Reynolds Metals Company LLC /
St. Lawrence Reduction Plant

194 County Route 45
P.O. Box 500
Massena, NY 13662 USA

February 19, 2019

Mr. Lincoln Fancher
Engineering Geologist 2
New York State Department of Environmental Conservation
317 Washington Street
Watertown, New York 13601

Subject: Reynolds Metals Co. LLC – St. Lawrence Reduction Plant Site ID#645009
Emerging Contaminants Groundwater Sampling Summary Memorandum

Dear Mr. Fancher:

Reynolds Metals Co. LLC respectfully submits the above-referenced memorandum for your review. The summary document is being provided as a condition of the August 27, 2018 Work Plan.

Should you have any questions or comments, please contact Jason Mibroda of Alcoa at (412) 315-2783 at your convenience.

Sincerely,

Ronald M. Morosky
Director, Corp. Remediation

Enclosure

cc: Kelly Hale, NYSDEC
Robyn Gross, Alcoa
Jason Mibroda, Alcoa
Paul Rodrigue, CDM Smith
Ernest Ashley, CDM Smith

Memorandum

To: *Jason Mibroda*

From: *Ryan Kingsley*

Date: *February 19, 2019*

Subject: *Reynolds Metals- Massena East Plant*
Emerging Contaminants Sampling Summary Memorandum

This memo provides a brief summary of the recent emerging contaminant groundwater sampling performed at the Reynolds Metals Massena East Plant.

Emerging Contaminants Sampling Plan

In a letter dated May 1, 2018, the New York State Department of Environmental Conservation (NYSDEC) requested sampling for emerging contaminants (EC) in groundwater at the Reynolds Metals plant.

On June 15, 2018, Alcoa USA Corp (Alcoa) submitted an emerging contaminant sampling workplan to the NYSDEC. In a letter dated July 31, 2018, the NYSDEC provided comments on the workplan, and requested that Alcoa revise and resubmit. An updated sampling plan, addressing all of the Department's comments was submitted on August 27, 2018. In a letter dated August 31, 2018, the NYSDEC approved the updated workplan for the groundwater sampling for emerging contaminants.

Emerging Contaminants Groundwater Sampling Event

From October 29, 2018 through October 30, 2018, CDM Smith performed the emerging contaminants groundwater sampling event, as committed in the workplan. All guidance, precautions and protocol provided by the NYSDEC were followed. The NYSDEC observed the collection of samples on October 30, 2018.

A summary of the sampling dates for each well can be found on *Table 1* attached to this memorandum. A site map with each of the sampled wells highlighted, can be found in *Appendix A*.

Emerging Contaminants Analytical Results

All groundwater samples were analyzed by Alpha Analytical Laboratory, which holds the required ELAP certification. Modified EPA Method 537 was used to analyze the groundwater samples for PFOA and PFOS to achieve the 2 ng/L (ppt) detection limit. EPA Method 8270 with selective ion monitoring (SIM) was used to analyze the groundwater samples for 1,4-Dioxane to achieve the 0.28 ug/L (ppb) detection limit. The lab prepared a full category B deliverable and a data usability summary report (DUSR) was prepared by a data validator. The DUSR can be found in *Appendix B* and the full category B deliverable can be found in *Appendix C*.

Following the submission of this memorandum to the NYSDEC, the qualified analytical results will be submitted by electronic data submission, following the requirements provided at: https://www.dec.ny.gov/chemical/62440.html. A summary of the qualified analytical results is provided in *Table 2*.

RK:jhm

Attachments

cc: Ernest Ashley, CDM Smith
Paul Rodrigue, CDM Smith
p:\west\pc\2019\19018.doc

Site	Well	Date Sampled	Comments
Black Mud Pond	MW-13S	10/30/2018	
	MW-15S	10/30/2018	
Industrial Landfill	MW-10S	10/30/2018	MW-12-1018FD
	MW-39	10/30/2018	
Former Potliner Storage Pad	MW-28S	10/30/2018	MS/MSD
North Yard	MW-18S	10/30/2018	
	MW-19S	10/30/2018	
East Plant Background Well (East of Former Plant)	MW-32S	10/30/2018	MS/MSD

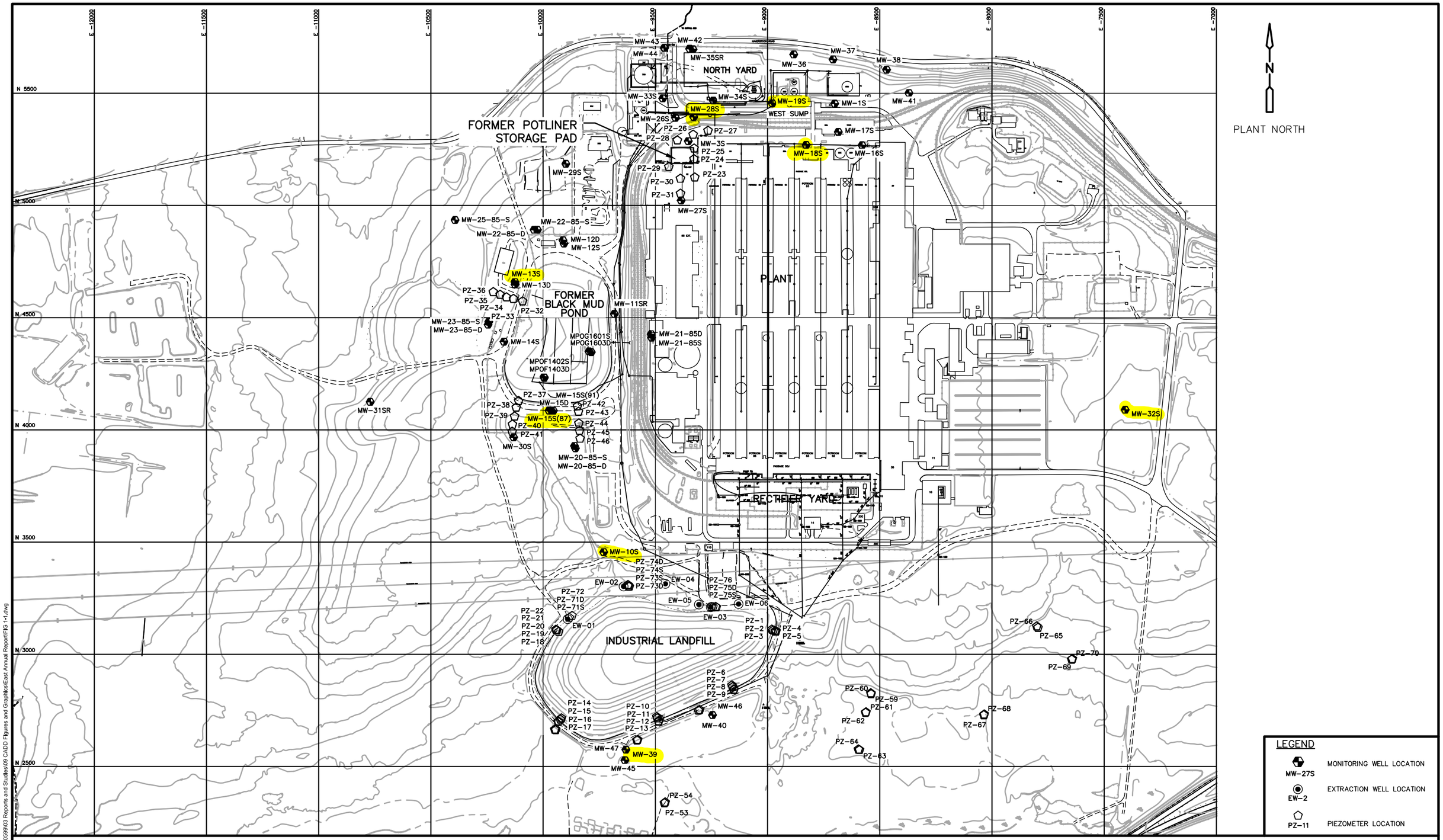
Table 1
Emerging Contaminants Sampling summary

Well		MW-10S	MW-13S	MW-15S	MW-18S	MW-19S	MW-28S
Location		Industrial Landfill	BMP	BMP	North Yard	North Yard	PSP
Sample ID		MW-10S-1018P	MW-13S-1018P	MW-15S-1018P	MW-18S-1018P	MW-19S-1018P	MW-28S-1018P
Sample date	**Units**	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018
Analyte							
1,4-Dioxane	ng/l	147U	147U	147U	144U	144U	144U
Perfluorobutanoic Acid (PFBA)	ng/l	0.413J	3.62	1.12J	3.84	3.33	5.8
Perfluoropentanoic Acid (PFPeA)	ng/l	1.84U	0.953J	1.19J	1.78U	1.8U	0.918J
Perfluorobutanesulfonic Acid (PFBS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	0.378J
Perfluorohexanoic Acid (PFHxA)	ng/l	1.84U	0.938J	0.902J	0.914J	1.8U	0.928J
Perfluoroheptanoic Acid (PFHpA)	ng/l	1.84U	1.81U	0.361J	0.682J	1.8U	0.678J
Perfluorohexanesulfonic Acid (PFHxS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorooctanoic Acid (PFOA)	ng/l	0.749J	1.81U	0.953J	2	1.33J	1.71J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluoroheptanesulfonic Acid (PFHpS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorononanoic Acid (PFNA)	ng/l	1.84U	1.81U	1.8U	0.407J	1.8U	1.78U
Perfluorooctanesulfonic Acid (PFOS)	ng/l	1.84U	1.81U	3.39	2.01	1.21J	2.85
Perfluorodecanoic Acid (PFDA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorodecanesulfonic Acid (PFDS)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorooctanesulfonamide (FOSA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorododecanoic Acid (PFDoA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorotridecanoic Acid (PFTrDA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U
Perfluorotetradecanoic Acid (PFTA)	ng/l	1.84U	1.81U	1.8U	1.78U	1.8U	1.78U

Well		MW-32S	MW-39	Field Blank	Field Blank	Field Duplicate
Location		East Plant Backgorund	Industrial Landfill			MW-10S
Sample ID		MW-32S-1018P	MW-39-1018P	MW-13-1018FB	MW-14-1018FB	MW-12-1018FD
Sample date	**Units**	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018
Analyte						
1,4-Dioxane	ng/l	144U	144U	139U	150U	144U
Perfluorobutanoic Acid (PFBA)	ng/l	1.91U	3.21	1.82U	1.9U	0.459J
Perfluoropentanoic Acid (PFPeA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorobutanesulfonic Acid (PFBS)	ng/l	1.91U	0.622J	1.82U	1.9U	1.79U
Perfluorohexanoic Acid (PFHxA)	ng/l	1.91U	0.664J	1.82U	1.9U	1.79U
Perfluoroheptanoic Acid (PFHpA)	ng/l	1.91U	0.703J	1.82U	1.9U	1.79U
Perfluorohexanesulfonic Acid (PFHxS)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorooctanoic Acid (PFOA)	ng/l	1.91U	3.44	1.82U	1.9U	1.79U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ng/l	1.91U	1.77U	1.82U	4.26	1.79U
Perfluoroheptanesulfonic Acid (PFHpS)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorononanoic Acid (PFNA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorooctanesulfonic Acid (PFOS)	ng/l	1.91U	3.4	1.82U	1.9U	1.79U
Perfluorodecanoic Acid (PFDA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/l	1.91U	1.77U	0.349J	1.9U	1.79U
Perfluoroundecanoic Acid (PFUnA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorodecanesulfonic Acid (PFDS)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorooctanesulfonamide (FOSA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/l	1.91U	1.77U	0.444J	1.9U	1.79U
Perfluorododecanoic Acid (PFDoA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorotridecanoic Acid (PFTrDA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U
Perfluorotetradecanoic Acid (PFTA)	ng/l	1.91U	1.77U	1.82U	1.9U	1.79U

Appendix A

Site Map



CDM Smith

Reynolds Metals Company, LLC. - Massena, New York

FIGURE 1
SITE REMEDIATION AREAS

XREFs: [CSTPL001, F11X17] Images: []
Last saved by: KOSKIAR Time: 12/1/2016 12:34:42 PM
pw:\\dacgwapp1:PW_Xat\1190280599\03 Reports and Studies\09 CADD Figures and Graphics\East Annual Report\FIG 1-1.dwg

Appendix B

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

February 2, 2019

Jocelyn Martin
CDM Smith
4 Highland Rd Suite 1
Massena, NY 13662

RE: Validation of the Reynolds Metals Plant Emerging Contaminant Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha Analytical SDG No. L1844318

Dear Ms. Martin:

Review has been completed for the data package generated by Alpha Analytical that pertains to aqueous samples collected between 10/30/18 at the Reynolds Metals Plant site. Ten aqueous samples, one field duplicate, and two field blanks were processed for per-and polyfluoroalkyl substances (PFAS) by a modified USEPA method 537, and 1,4-dioxane for USEPA method 8270D SIM.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology.

The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate, Isotopic Dilution, and Internal Standard Recoveries
* Preparation and Field Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for target analytes are usable either as reported or with minor qualification or edit. Accuracy, precision, data completeness, sensitivity, comparability, and representativeness are acceptable.

Client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included in this report is the laboratory EQuIS EDD with recommended qualifiers/edits applied in red.

Blind Field Duplicate Correlations

The blind field duplicate evaluation was performed on MW-10S-1018P, and shows correlations that fall within validation guidelines.

1,4-Dioxane by EPA 8270D SIM

Surrogate and internal standard recoveries of project samples are within laboratory and protocol acceptance ranges. Holding times were met.

Matrix spikes of MW-28S-1018P show recoveries and correlations within laboratory acceptance ranges.

Calibration standards show acceptable responses that are within validation guidelines, and blanks show no contamination. LCS recoveries are compliant.

PFAS by Modified EPA Method 537

PFAS compounds are identified by their common acronyms in this report. The report forms reference both the technical names and the acronyms.

Due to presence in the associated field blank, the following low level detections are considered external contamination and edited to reflect non-detection:

- NMe-FOSAA in MW-18S-1018P
- NEt-FOSAA in MW-12-1018FD

Matrix spikes of MW-28S-1018P and MW-32S-1018P show recoveries and correlations within validation action guidelines.

Holding times were met, and LCS recoveries are compliant.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample Identifications
Qualified Laboratory EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Project Name: REYNOLDS PLANT EMERGING CONTAM
Project Number: 85906

Lab Number: L1844318
Report Date: 11/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1844318-01	MW-13S-1018P	WATER	NY	10/30/18 11:00	10/30/18
L1844318-02	MW-15S-1018P	WATER	NY	10/30/18 12:00	10/30/18
L1844318-03	MW-10S-1018P	WATER	NY	10/30/18 11:30	10/30/18
L1844318-04	MW-39-1018P	WATER	NY	10/30/18 10:40	10/30/18
L1844318-05	MW-28S-1018P	WATER	NY	10/30/18 12:15	10/30/18
L1844318-06	MW-18S-1018P	WATER	NY	10/30/18 13:10	10/30/18
L1844318-07	MW-19S-1018P	WATER	NY	10/30/18 12:40	10/30/18
L1844318-08	MW-32S-1018P	WATER	NY	10/30/18 10:00	10/30/18
L1844318-09	MW-12-1018FD	WATER	NY	10/30/18 11:40	10/30/18
L1844318-10	MW-13-1018FB	WATER	NY	10/30/18 11:10	10/30/18
L1844318-11	MW-14-1018FB	WATER	NY	10/30/18 12:50	10/30/18

Appendix C

Full Category B Deliverable

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1844318

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package 1
Table of Contents 2
Sample ID Cross Reference 5
SDG Narrative 6
Data Qualifier Definitions 8
Instrument Information 10
Volatile Organics Instruments 10
Volatile Organics in Air Instruments 10
Semivolatile Organics Instruments - Westborough 11
Semivolatile Organic Instruments - Mansfield 12
Sample Log-in Sheet 13
Lims COC (LN01) 14
External Chain of Custody 16
Organics Analysis 18
GCMS Extractables 1,4-Dioxane By SIM 19
Semivolatiles QC Summary 20
Form 2 - Organics 21
Form 3 - Organics 22
Form 4 - Organics 25
Form 5 - Organics 26
Form 8 - Organics 28
MDL Study 29
Semivolatiles Sample Data 30
Form 1 - Organics 31
MW-13S-1018P (L1844318-01) Analyzed: 11/06/18 12:35 43
MW-15S-1018P (L1844318-02) Analyzed: 11/06/18 13:05 46
MW-10S-1018P (L1844318-03) Analyzed: 11/06/18 13:33 49
MW-39-1018P (L1844318-04) Analyzed: 11/06/18 14:02 52
MW-28S-1018P (L1844318-05) Analyzed: 11/06/18 14:31 55
MW-18S-1018P (L1844318-06) Analyzed: 11/06/18 15:57 58
MW-19S-1018P (L1844318-07) Analyzed: 11/06/18 16:26 61
MW-32S-1018P (L1844318-08) Analyzed: 11/06/18 16:55 65
MW-12-1018FD (L1844318-09) Analyzed: 11/06/18 18:31 68
MW-13-1018FB (L1844318-10) Analyzed: 11/06/18 19:03 71
MW-14-1018FB (L1844318-11) Analyzed: 11/06/18 19:35 74
Semivolatiles Standards Data 77
Initial Calibration 78
Form 6 - Organics 79
ICAL for GCMS6 on 10/03/18 ICAL15108 80
Initial Calibration Summary - Cal Date: 10/03/18 00:00 80
Injected on: 10/02/18 14:34 81
STD 10 Injected on: 10/02/18 15:23 82
STD 50 Injected on: 10/02/18 15:52 85
STD 100 Injected on: 10/02/18 16:21 88
STD 500 Injected on: 10/02/18 16:49 92
STD 1000 Injected on: 10/02/18 17:19 95
STD 5000 Injected on: 10/02/18 17:47 98
STD 10000 Injected on: 10/02/18 18:16 101
ICV Summary Form 104
ICV Quant Report Injected on: 10/02/18 18:45 105

Table of Contents

Continuing Calibration 108
Form 7 - Organics 109
CC Summary - GCMS6 Run: 11/06/18 10:05 110
CC Quant - GCMS6 Run: 11/06/18 10:05 111
Semivolatiles Raw QC Summary 114
dftpp tune - Inst. GCMS6 11/06/18 09:16 115
ICAL Sequence for GCMS6 on 03-OCT-2018 00:00 ICAL15108 116
Laboratory Method Bl (WG1176130-1) Analyzed: 11/06/18 10:36 117
Laboratory Control S (WG1176130-2) Analyzed: 11/06/18 11:06 120
LCS Duplicate (WG1176130-3) Analyzed: 11/06/18 11:36 125
Matrix Spike (WG1176130-4) Analyzed: 11/06/18 15:00 131
Matrix Spike (WG1176130-6) Analyzed: 11/06/18 17:27 137
Matrix Spike Duplica (WG1176130-5) Analyzed: 11/06/18 15:28 143
Matrix Spike Duplica (WG1176130-7) Analyzed: 11/06/18 18:00 149
Semivolatiles Calculations 154
QC Batch WG1176307 155
Sequence Log 156
Organic ELN-Workgroup:WG1176130 157
PFAAs via EPA 537 160
Semivolatiles QC Summary 161
Form 2 - Organics 162
Form 3 - Organics 165
Form 4 - Organics 171
MDL Study - 537 Isotope Dilution 172
Semivolatiles Sample Data 176
Form 1 - Organics 177
MW-13S-1018P (L1844318-01) Analyzed: 11/10/18 04:55 201
MW-15S-1018P (L1844318-02) Analyzed: 11/10/18 05:12 256
MW-10S-1018P (L1844318-03) Analyzed: 11/10/18 05:29 311
MW-39-1018P (L1844318-04) Analyzed: 11/10/18 05:45 366
MW-28S-1018P (L1844318-05) Analyzed: 11/10/18 06:02 421
MW-18S-1018P (L1844318-06) Analyzed: 11/10/18 06:51 476
MW-19S-1018P (L1844318-07) Analyzed: 11/10/18 07:08 531
MW-32S-1018P (L1844318-08) Analyzed: 11/10/18 07:24 586
MW-12-1018FD (L1844318-09) Analyzed: 11/10/18 08:31 641
MW-13-1018FB (L1844318-10) Analyzed: 11/10/18 08:47 696
MW-14-1018FB (L1844318-11) Analyzed: 11/10/18 09:04 751
Semivolatiles Standards Data 806
Initial Calibration 807
Form 6 - Organics 808
ICAL for LCMS01 on 11/01/18 ICAL15200 867
Initial Calibration Summary - Cal Date: 11/01/18 20:29 867
STD0.5 Injected on: 11/01/18 16:45 926
STD5.0 Injected on: 11/01/18 17:02 987
STD1.0 Injected on: 11/01/18 17:18 1048
STD10.0 Injected on: 11/01/18 17:35 1109
STD50.0 Injected on: 11/01/18 17:52 1170
STD125 Injected on: 11/01/18 18:08 1231
STD150 Injected on: 11/01/18 18:25 1292
STD250 Injected on: 11/01/18 18:41 1353

Table of Contents

STD500 Injected on: 11/01/18 18:58 1414
ICV Injected on: 11/01/18 19:31 1475
Continuing Calibration 1536
Form 7 - Organics 1537
CC Quant - WG1177310-2 LCMS01 Run: 11/08/18 13:12:24 1547
CC Quant - WG1177310-3 LCMS01 Run: 11/08/18 15:57:47 1602
CC Quant - WG1177819-5 LCMS01 Run: 11/10/18 04:39:27 1657
CC Quant - WG1177819-6 LCMS01 Run: 11/10/18 08:14:42 1712
CC Quant - WG1177819-7 LCMS01 Run: 11/10/18 10:43:44 1767
Semivolatiles Raw QC Summary 1822
Laboratory Method Bl (WG1175174-1) Analyzed: 11/08/18 13:28 1823
Laboratory Control S (WG1175174-2) Analyzed: 11/08/18 13:45 1878
LCS Duplicate (WG1175174-3) Analyzed: 11/08/18 14:01 1933
Matrix Spike (WG1175174-4) Analyzed: 11/10/18 06:18 1988
Matrix Spike (WG1175174-6) Analyzed: 11/10/18 07:41 2043
Matrix Spike (WG1175174-8) Analyzed: 11/12/18 19:35 2098
Matrix Spike Duplica (WG1175174-5) Analyzed: 11/10/18 06:35 2153
Matrix Spike Duplica (WG1175174-7) Analyzed: 11/10/18 07:58 2208
Matrix Spike Duplica (WG1175174-9) Analyzed: 11/12/18 19:51 2263
Semivolatiles Calculations 2318
QC Batch WG1177819 2319
ICAL Sequence for LCMS01 on 01-NOV-2018 20:29 ICAL15200 2321
Sequence Log 2323
Organic ELN-Workgroup:WG1175174 2327

Project Name: REYNOLDS PLANT EMERGING CONTAM
Project Number: 85906

Lab Number: L1844318
Report Date: 11/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1844318-01	MW-13S-1018P	WATER	NY	10/30/18 11:00	10/30/18
L1844318-02	MW-15S-1018P	WATER	NY	10/30/18 12:00	10/30/18
L1844318-03	MW-10S-1018P	WATER	NY	10/30/18 11:30	10/30/18
L1844318-04	MW-39-1018P	WATER	NY	10/30/18 10:40	10/30/18
L1844318-05	MW-28S-1018P	WATER	NY	10/30/18 12:15	10/30/18
L1844318-06	MW-18S-1018P	WATER	NY	10/30/18 13:10	10/30/18
L1844318-07	MW-19S-1018P	WATER	NY	10/30/18 12:40	10/30/18
L1844318-08	MW-32S-1018P	WATER	NY	10/30/18 10:00	10/30/18
L1844318-09	MW-12-1018FD	WATER	NY	10/30/18 11:40	10/30/18
L1844318-10	MW-13-1018FB	WATER	NY	10/30/18 11:10	10/30/18
L1844318-11	MW-14-1018FB	WATER	NY	10/30/18 12:50	10/30/18

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 Alpha 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, Alpha'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 Alpha 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 Isotope Dilution

L1844318-11:The Field Blank has a concentration above the reporting limit for 6:2FTS. The results were confirmed.

WG1177819-7: The continuing calibration standard, associated with L1844318 as well as the associated QC, had the response for the extracted internal standard 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) (46.7%) and 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) (47.1% outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria, therefore no further action was taken.

WG1177819-6: The continuing calibration standard, associated with L1844318 as well as the associated QC, had the response for Perfluorodecanesulfonic Acid (PFDS) (131.5%) above the acceptance criteria for the method. The associated samples were non-detect, therefore no further action was taken.

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: 11/14/18

Title: Technical Director/Representative

GLOSSARY

Acronyms

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.
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.
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.
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.

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.

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'.

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.

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.

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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.

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 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.

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).

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

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	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 in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 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
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

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

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

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	

EPH

Instrument: Agilent 6890N 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, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 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 (ECD):

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 (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

Alpha Job Number : L1844318

Received : 30-OCT-2018
Reviewer : Bethany Bedard

Account Name : CDM Smith, Inc.
Project Number : 85906
Project Name : REYNOLDS PLANT EMERGING CONTAM

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.7	
B	Absent/	Ice	3.8	
C	Absent/	Ice	4.5	

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 sample labels & COC?	**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**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 20 2018, 03:38 pm

Login Number: L1844318
Account: CDM-NY4 CDM Smith, Inc.Project: 85906
Received: 30OCT18 Due Date: 20NOV18

Sample #	Client ID	Mat	PR	Collected
L1844318-01	MW-13S-1018P	1	S0	30OCT18 11:00
| ASP-B Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE,ASP-B				
L1844318-02	MW-15S-1018P	1	S0	30OCT18 12:00
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-03	MW-10S-1018P	1	S0	30OCT18 11:30
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-04	MW-39-1018P	1	S0	30OCT18 10:40
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-05	MW-28S-1018P	1	S0	30OCT18 12:15
L1844318-05 MS L1844318-05 MSD Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-MS/MSD,A2-NY-537-ISOTOPE				
L1844318-06	MW-18S-1018P	1	S0	30OCT18 13:10
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-07	MW-19S-1018P	1	S0	30OCT18 12:40
| Package Due Date: 12/20/18				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 20 2018, 03:38 pm

Login Number: L1844318
Account: CDM-NY4 CDM Smith, Inc.Project: 85906
Received: 30OCT18 Due Date: 20NOV18

Sample #	Client ID	Mat	PR	Collected
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-08	MW-32S-1018P	1 S0		30OCT18 10:00
L1844318-08 MS L1844318-08 MSD Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-MS/MSD,A2-NY-537-ISOTOPE				
L1844318-09	MW-12-1018FD	1 S0		30OCT18 11:40
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-10	MW-13-1018FB	1 S0		30OCT18 11:10
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1844318-11	MW-14-1018FB	1 S0		30OCT18 12:50
| Package Due Date: 12/20/18				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				

Logged By: Candace Fox

NEW YORK CHAIN OF CUSTODY

Page 1 of 42

Date Rec'd in Lab: 10/31/18

ALPHA Job #: L1844318

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

Client Information
Client: CDM Smith
Address: 4 Highland Road, Suite 1
Massena, NY 13662
Phone: 315-296-9003
Fax:
Email: KingsleyRL@cdmsmith.com

Project Information
Project Name: Reynolds Plant Emerging Contaminants
Project Location: NY
Project # 85906
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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: NA

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	PFAS-537	1,4-Dioxane-8270	Total Bottles	Sample Specific Comments
1844318-01	MW-13S-1018P	10/30/18	11:00	Water	AH/SM	X	X	4	
-02	MW-15S-1018P	10/30/18	12:00	Water	AH/SM	X	X	4	
-03	MW-10S-1018P	10/30/18	11:30	Water	AH/SM	X	X	4	
-04	MW-39-1018P	10/30/18	10:40	Water	AH/SM	X	X	4	
-05	MW-28S-1018P	10/30/18	12:15	Water	AH/SM	X	X	4	
05	MW-28S-1018P MS	10/30/18	12:15	Water	AH/SM	X	X	4	
-05	MW-28S-1018P MSD	10/30/18	12:15	Water	AH/SM	X	X	4	
-06	MW-18S-1018P	10/30/18	13:10	Water	AH/SM	X	X	4	
-07	MW-19S-1018P	10/30/18	12:40	Water	AH/SM	X	X	4	
-08	MW-32S-1018P	10/30/18	10:00	Water	AH/SM	X	X	4	
						Container Type		P	A						
						Preservative		A	A						

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
	10/30/18 14:30		10/30/18 15:05
	10/30/18 15:20		10/30/18 2335
10/31/18	0540		10/31/18 0540

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)

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

Page 1 2 of 1 2

Date Rec'd in Lab: 10/31/18

ALPHA Job #: L1844318

Client Information

Client: CDM Smith
Address: 4 Highland Road, Suite 1
Massena, NY 13662
Phone: 315-296-9003
Fax:
Email: KingsleyRL@cdmsmith.com

Project Information

Project Name: Reynolds Plant Emerging Contaminants
Project Location: NY
Project # 85906
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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: NA

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS-537	1,4-Dioxane-8270	Sample Filtration / Preservation	Total Bottles
-06	MW-32S-1018P MS	10/30/18	10:00	Water	AH/SM	X	X		4
-08	MW-32S-1018P MSD	10/30/18	10:00	Water	AH/SM	X	X		4
-09	MW-12-1018FD	10/30/18	11:40	Water	AH/SM	X	X		4
-10	MW-13-1018FB	10/30/18	11:10	Water	AH/SM	X	X		4
-11	MW-14-1018FB	10/30/18	12:50	Water	AH/SM	X	X		4
				Water		X	X		4
				Water		X	X		4
				Water		X	X		4
				Water		X	X		4
				Water		X	X		4
				Water		X	X		4
				Container Type		P	A		
				Preservative		A	A		

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

Sample Specific Comments

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
	10/30/18 14:30		10/30/18 15:00
	10/30/18 15:05		10/30/18 23:35
	10/31/18 05:40		10/31/18 05:40

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

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CDM Smith, Inc.
Project Name: REYNOLDS PLANT EMERGING CONTAM

Lab Number: L1844318
Project Number: 85906
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-13S-1018P (L1844318-01)	21	--	--	--	--	--	0
MW-15S-1018P (L1844318-02)	19	--	--	--	--	--	0
MW-10S-1018P (L1844318-03)	18	--	--	--	--	--	0
MW-39-1018P (L1844318-04)	23	--	--	--	--	--	0
MW-28S-1018P (L1844318-05)	26	--	--	--	--	--	0
MW-18S-1018P (L1844318-06)	25	--	--	--	--	--	0
MW-19S-1018P (L1844318-07)	19	--	--	--	--	--	0
MW-32S-1018P (L1844318-08)	22	--	--	--	--	--	0
MW-12-1018FD (L1844318-09)	20	--	--	--	--	--	0
MW-13-1018FB (L1844318-10)	21	--	--	--	--	--	0
MW-14-1018FB (L1844318-11)	27	--	--	--	--	--	0
WG1176130-1BLANK	31	--	--	--	--	--	0
WG1176130-2LCS	33	--	--	--	--	--	0
WG1176130-3LCSD	23	--	--	--	--	--	0
MW-28S-1018PMS	22	--	--	--	--	--	0
MW-28S-1018PMSD	20	--	--	--	--	--	0
MW-32S-1018PMS	17	--	--	--	--	--	0
MW-32S-1018PMSD	21	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-1,4-DIOXANE-SIM

Laboratory Control Sample
Form 3

Client	: CDM Smith, Inc.			**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM			**Project Number**	: 85906
Matrix	: WATER				
LCS Sample ID	: WG1176130-2	**Analysis Date** :	11/06/18 11:06	**File ID**	: F611061804
LCSD Sample ID	: WG1176130-3	**Analysis Date** :	11/06/18 11:36	**File ID**	: F611061805

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(ng/l)	(ng/l)		(ng/l)	(ng/l)			Limits	Limit
1,4-Dioxane	5000	5350	107	5000	5300	106	1	40-140	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Client Sample ID	: MW-28S-1018P	**Matrix**	: WATER
Lab Sample ID	: L1844318-05	**Analysis Date**	: 11/06/18 14:31
Matrix Spike	: WG1176130-4	**MS Analysis Date**	: 11/06/18 15:00
Matrix Spike Dup	: WG1176130-5	**MSD Analysis Date**	: 11/06/18 15:28

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	ND	4810	5080	106	4810	5100	106	0	40-140	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Client Sample ID	: MW-32S-1018P	**Matrix**	: WATER
Lab Sample ID	: L1844318-08	**Analysis Date**	: 11/06/18 16:55
Matrix Spike	: WG1176130-6	**MS Analysis Date**	: 11/06/18 17:27
Matrix Spike Dup	: WG1176130-7	**MSD Analysis Date**	: 11/06/18 18:00

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	ND	4810	5070	105	4810	5170	108	2	40-140	30

Method Blank Summary
Form 4
SEMIVOLATILES

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab Sample ID	: WG1176130-1	**Lab File ID**	: F611061803
Instrument ID	: GCMS6	**Extraction Date**	: 11/05/18
Matrix	: WATER	**Analysis Date**	: 11/06/18 10:36
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1176130-2LCS	WG1176130-2	11/06/18 11:06
WG1176130-3LCSD	WG1176130-3	11/06/18 11:36
MW-13S-1018P	L1844318-01	11/06/18 12:35
MW-15S-1018P	L1844318-02	11/06/18 13:05
MW-10S-1018P	L1844318-03	11/06/18 13:33
MW-39-1018P	L1844318-04	11/06/18 14:02
MW-28S-1018P	L1844318-05	11/06/18 14:31
MW-28S-1018PMS	WG1176130-4	11/06/18 15:00
MW-28S-1018PMSD	WG1176130-5	11/06/18 15:28
MW-18S-1018P	L1844318-06	11/06/18 15:57
MW-19S-1018P	L1844318-07	11/06/18 16:26
MW-32S-1018P	L1844318-08	11/06/18 16:55
MW-32S-1018PMS	WG1176130-6	11/06/18 17:27
MW-32S-1018PMSD	WG1176130-7	11/06/18 18:00
MW-12-1018FD	L1844318-09	11/06/18 18:31
MW-13-1018FB	L1844318-10	11/06/18 19:03
MW-14-1018FB	L1844318-11	11/06/18 19:35

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Instrument ID	: GCMS6	**Analysis Date**	: 10/02/18 14:34
Tune Standard	: R1117310-9	**Tune File ID**	: F610021801_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	29.4
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	23.1
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than 24% of mass 442	15.1
442	Base Peak, or >50% of mass 198	67.6
443	15.0 - 24.0% of mass 442	12.9 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1117310-1	F610021802	10/02/18 15:23
STD 50	R1117310-2	F610021803	10/02/18 15:52
STD 100	R1117310-3	F610021804	10/02/18 16:21
STD 500	R1117310-4	F610021805	10/02/18 16:49
STD 1000	R1117310-5	F610021806	10/02/18 17:19
STD 5000	R1117310-6	F610021807	10/02/18 17:47
STD 10000	R1117310-7	F610021808	10/02/18 18:16
ICV Quant Report	R1117310-8	F610021809	10/02/18 18:45

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Instrument ID	: GCMS6	**Analysis Date**	: 11/06/18 09:16
Tune Standard	: WG1176307-1	**Tune File ID**	: F611061801_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	29.6
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	49.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	23.6
365	Greater than 1.0% of mass 198	2
441	Present, but less than 24% of mass 442	15.4
442	Base Peak, or >50% of mass 198	67.3
443	15.0 - 24.0% of mass 442	13 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1176307-2CCAL	WG1176307-2	F611061802	11/06/18 10:05
WG1176130-1BLANK	WG1176130-1	F611061803	11/06/18 10:36
WG1176130-2LCS	WG1176130-2	F611061804	11/06/18 11:06
WG1176130-3LCSD	WG1176130-3	F611061805	11/06/18 11:36
MW-13S-1018P	L1844318-01	F611061807	11/06/18 12:35
MW-15S-1018P	L1844318-02	F611061808	11/06/18 13:05
MW-10S-1018P	L1844318-03	F611061809	11/06/18 13:33
MW-39-1018P	L1844318-04	F611061810	11/06/18 14:02
MW-28S-1018P	L1844318-05	F611061811	11/06/18 14:31
WG1176130-4MS	WG1176130-4	F611061812	11/06/18 15:00
WG1176130-5MSD	WG1176130-5	F611061813	11/06/18 15:28
MW-18S-1018P	L1844318-06	F611061814	11/06/18 15:57
MW-19S-1018P	L1844318-07	F611061815	11/06/18 16:26
MW-32S-1018P	L1844318-08	F611061816	11/06/18 16:55
WG1176130-6MS	WG1176130-6	F611061817	11/06/18 17:27
WG1176130-7MSD	WG1176130-7	F611061818	11/06/18 18:00
MW-12-1018FD	L1844318-09	F611061819	11/06/18 18:31
MW-13-1018FB	L1844318-10	F611061820	11/06/18 19:03
MW-14-1018FB	L1844318-11	F611061821	11/06/18 19:35

Internal Standard Area and RT Summary
Form 8

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Instrument ID	: GCMS6	**Analysis Date**	: 11/06/18 10:05
Sample No	: WG1176307-2	**Lab File ID**	: F611061802

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1176307-2	109863	7.24				
Upper Limit	219726	7.74				
Lower Limit	54932	6.74				
Sample ID						
WG1176130-1 BLANK	96460	7.24				
WG1176130-2 LCS	96771	7.23				
WG1176130-3 LCSD	101831	7.23				
MW-13S-1018P	99583	7.23				
MW-15S-1018P	88549	7.23				
MW-10S-1018P	92855	7.23				
MW-39-1018P	100005	7.24				
MW-28S-1018P	95287	7.24				
MW-28S-1018P MS	98183	7.23				
MW-28S-1018P MSD	101834	7.23				
MW-18S-1018P	96777	7.23				
MW-19S-1018P	100406	7.24				
MW-32S-1018P	98480	7.23				
MW-32S-1018P MS	106972	7.23				
MW-32S-1018P MSD	101762	7.23				
MW-12-1018FD	102113	7.23				
MW-13-1018FB	91766	7.23				
MW-14-1018FB	91419	7.23				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Approved

Page 1 of 1	
Analyst:	CM
Date:	6/22-23/2011
Instrument ID:	BNA 6
Column ID:	RTX-5
Prep Method:	EPA 3510C
Prep Chemist:	BV

Method: EPA 8270C-SIM 2011

GCMS 1,4-Dioxane ~~Soil~~ Liquid

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	T value used for calculating MDL: 3.143					
		Date Analyzed	6/22/2011	6/22/2011	6/22/2011	6/22/2011	6/22/2011	6/22/2011	6/23/2011						
No.	Analytes	Target conc. (ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	Mean (ng/L)	Mean Accuracy	Standard Deviation	Calc. MDL (ng/L)	Current RL (ng/L)	Comment
1	1,4-Dioxane	100	147	141	129	156	123	111	128	133.68	134%	15.46	48.58	150	
	Surrogates														
1	1,4-Dioxane	5000	1974	1978	2070	1914	1965	1922	1927	1964	39%				
2															

Comments:

Semivolatile Sample Data

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-01	**Date Collected**	: 10/30/18 11:00
Client ID	: MW-13S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 12:35
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061807	**Analyst**	: PS
Sample Amount	: 510 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	73.5	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-02	**Date Collected**	: 10/30/18 12:00
Client ID	: MW-15S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 13:05
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061808	**Analyst**	: PS
Sample Amount	: 510 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	73.5	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-03	**Date Collected**	: 10/30/18 11:30
Client ID	: MW-10S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 13:33
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061809	**Analyst**	: PS
Sample Amount	: 510 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	73.5	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-04	**Date Collected**	: 10/30/18 10:40
Client ID	: MW-39-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 14:02
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061810	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-05	**Date Collected**	: 10/30/18 12:15
Client ID	: MW-28S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 14:31
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061811	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-06	**Date Collected**	: 10/30/18 13:10
Client ID	: MW-18S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 15:57
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061814	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-07	**Date Collected**	: 10/30/18 12:40
Client ID	: MW-19S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 16:26
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061815	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-08	**Date Collected**	: 10/30/18 10:00
Client ID	: MW-32S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 16:55
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061816	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-09	**Date Collected**	: 10/30/18 11:40
Client ID	: MW-12-1018FD	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 18:31
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061819	**Analyst**	: PS
Sample Amount	: 520 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	72.1	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-10	**Date Collected**	: 10/30/18 11:10
Client ID	: MW-13-1018FB	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 19:03
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061820	**Analyst**	: PS
Sample Amount	: 540 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	139	69.4	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-11	**Date Collected**	: 10/30/18 12:50
Client ID	: MW-14-1018FB	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/06/18 19:35
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061821	**Analyst**	: PS
Sample Amount	: 500 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	75.0	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: WG1176130-1	**Date Collected**	: NA
Client ID	: WG1176130-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 11/06/18 10:36
Sample Matrix	: WATER	**Date Extracted**	: 11/05/18
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F611061803	**Analyst**	: PS
Sample Amount	: 500 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 5000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	75.0	U

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061807.D
Acq On : 6 Nov 2018 12:35 pm
Operator : GCMS6:ps
Sample : l1844318-01
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 07 09:25:24 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.478	64	4709	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.230	152	99583	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.478	64	4709	107.483	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.50%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

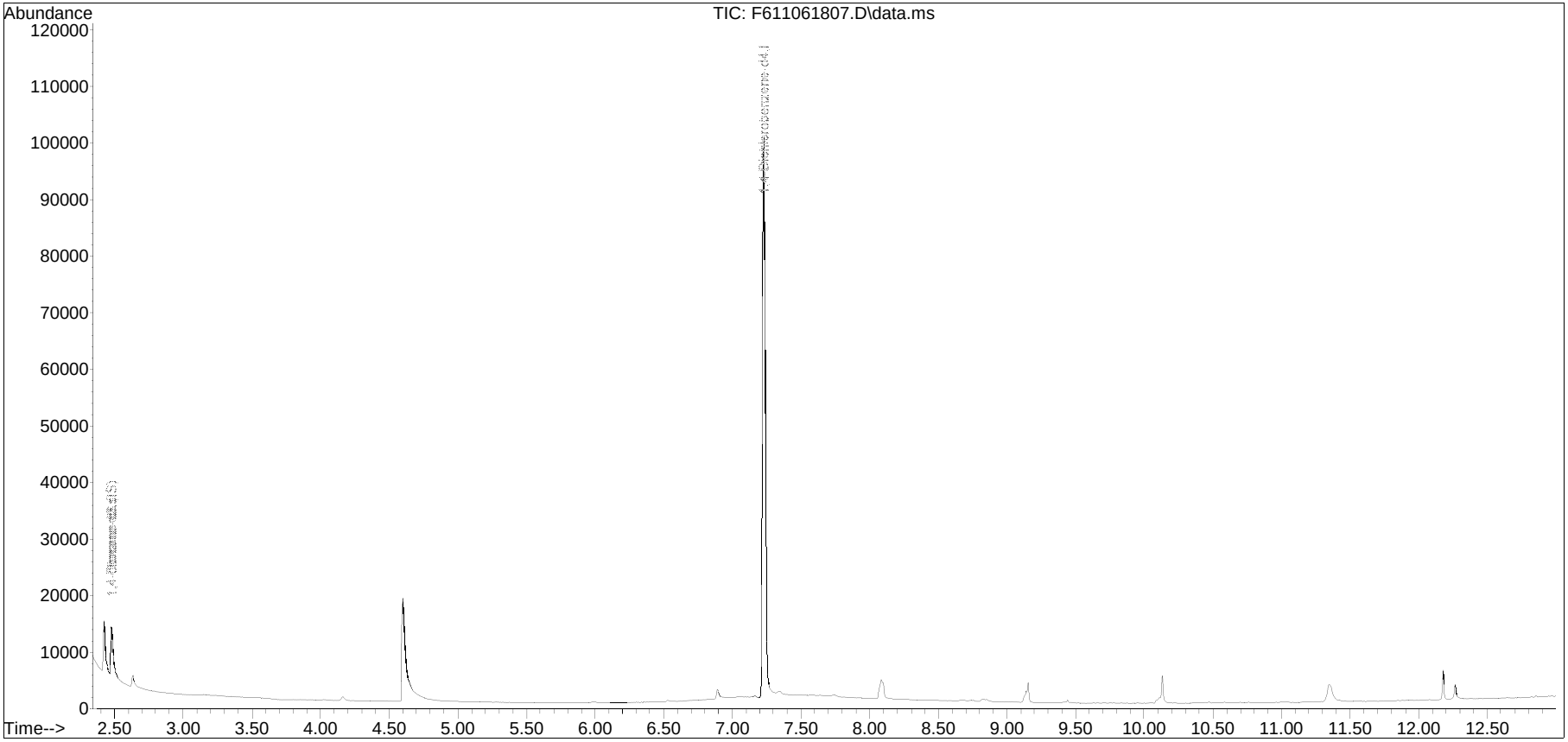
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061807.D
Acq On : 6 Nov 2018 12:35 pm
Operator : GCMS6:ps
Sample : l1844318-01
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 07 09:25:24 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061807.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 12:35 pm	Instrument	: GCMS6
Sample	: l1844318-01	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061808.D
Acq On : 6 Nov 2018 1:05 pm
Operator : GCMS6:ps
Sample : l1844318-02
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 07 09:25:27 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.467	64	3613	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.225	152	88549	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.467	64	3613	92.743	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 18.55%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

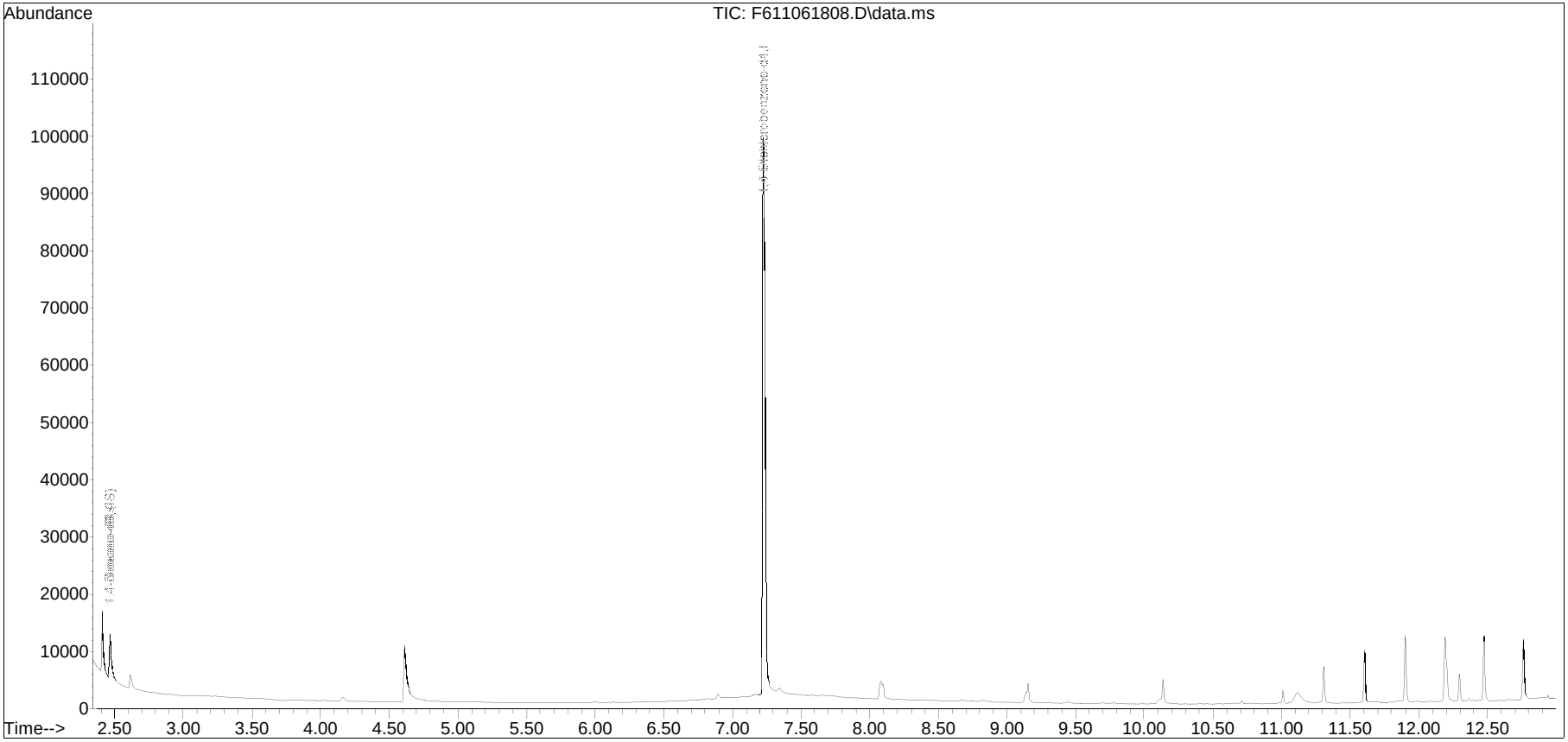
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061808.D
Acq On : 6 Nov 2018 1:05 pm
Operator : GCMS6:ps
Sample : l1844318-02
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 07 09:25:27 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061808.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 1:05 pm	Instrument	: GCMS6
Sample	: l1844318-02	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061809.D
Acq On : 6 Nov 2018 1:33 pm
Operator : GCMS6:ps
Sample : l1844318-03
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 07 09:25:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.469	64	3639	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.233	152	92855	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.469	64	3639	89.079	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 17.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

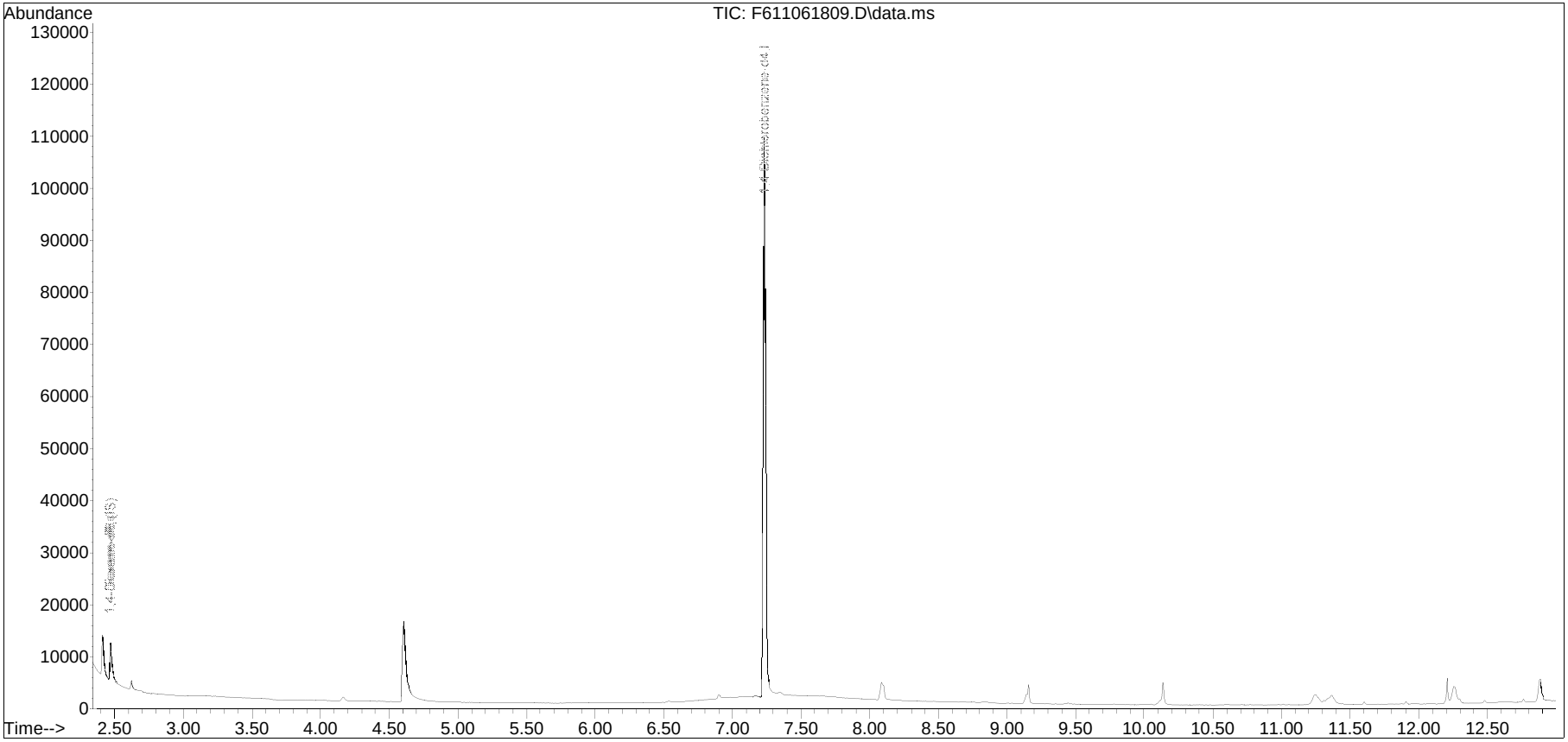
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061809.D
Acq On : 6 Nov 2018 1:33 pm
Operator : GCMS6:ps
Sample : l1844318-03
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 07 09:25:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061809.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 1:33 pm	Instrument	: GCMS6
Sample	: l1844318-03	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061810.D
Acq On : 6 Nov 2018 2:02 pm
Operator : GCMS6:ps
Sample : l1844318-04
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 07 09:25:33 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.489	64	5039	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.236	152	100005	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.489	64	5039	114.530	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 22.91%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

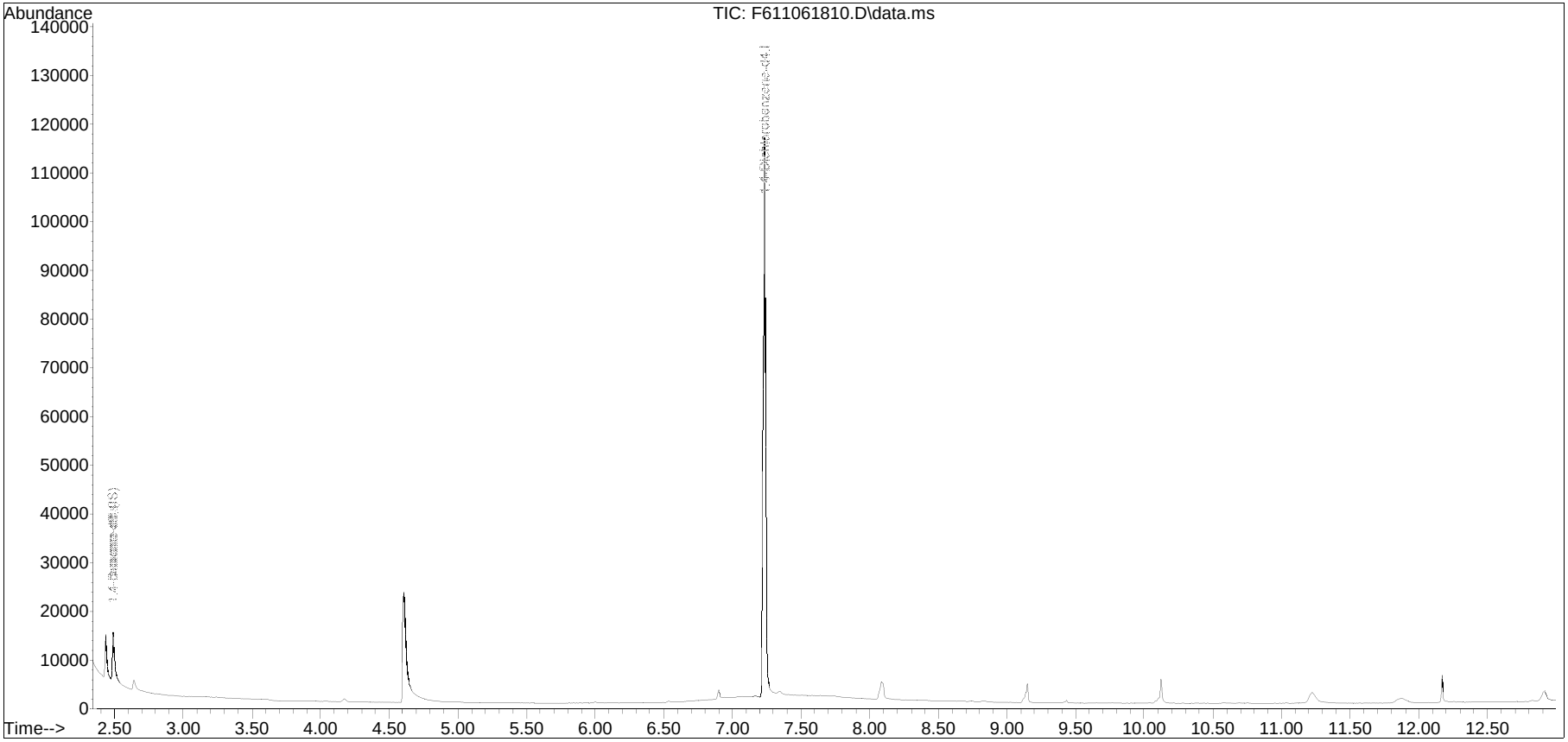
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061810.D
Acq On : 6 Nov 2018 2:02 pm
Operator : GCMS6:ps
Sample : l1844318-04
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 07 09:25:33 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061810.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 2:02 pm	Instrument	: GCMS6
Sample	: l1844318-04	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061811.D
Acq On : 6 Nov 2018 2:31 pm
Operator : GCMS6:ps
Sample : l1844318-05
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 07 09:25:35 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.503	64	5361	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.236	152	95287	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.503	64	5361	127.882	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 25.58%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

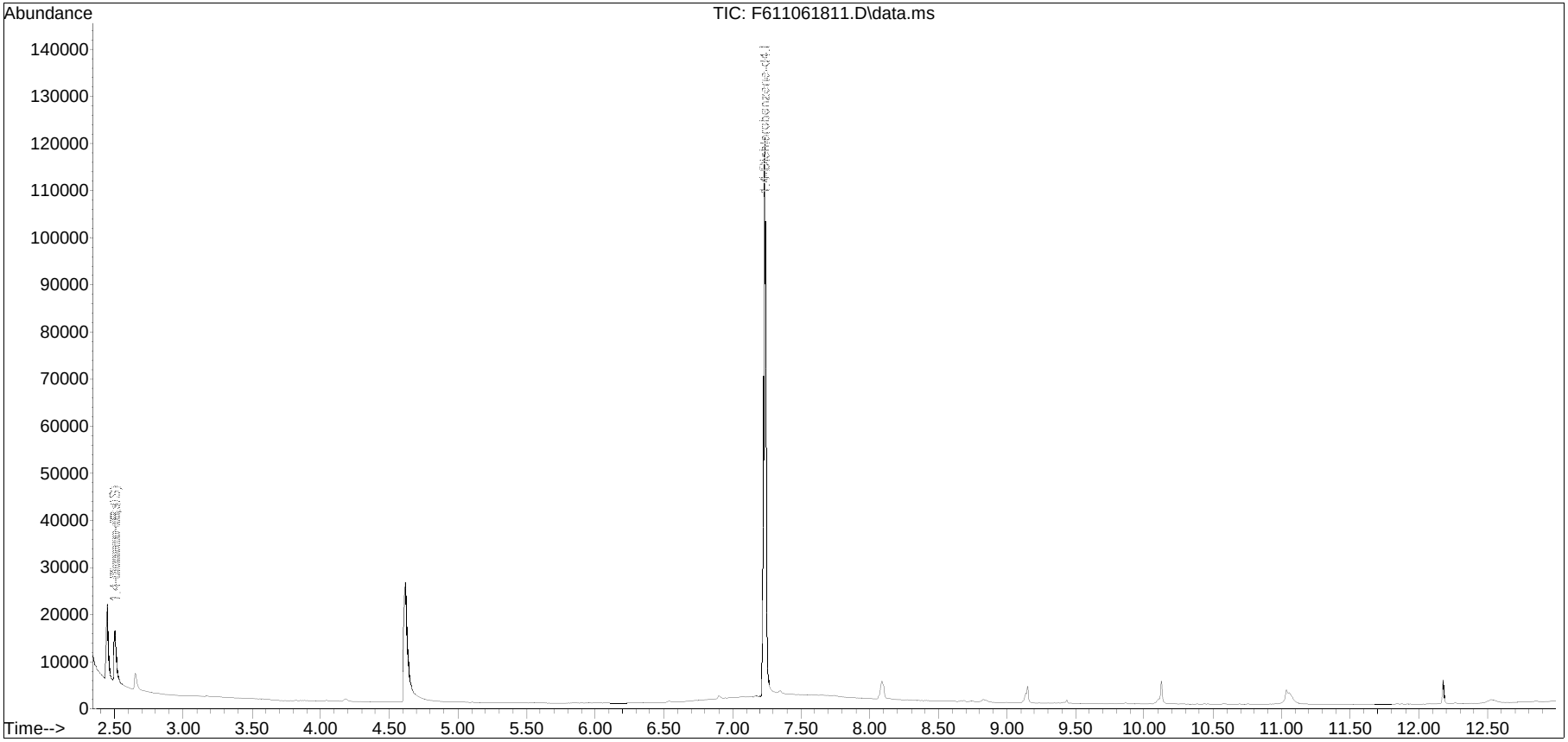
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061811.D
Acq On : 6 Nov 2018 2:31 pm
Operator : GCMS6:ps
Sample : l1844318-05
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 07 09:25:35 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061811.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 2:31 pm	Instrument	: GCMS6
Sample	: l1844318-05	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061814.D
Acq On : 6 Nov 2018 3:57 pm
Operator : GCMS6:ps
Sample : l1844318-06
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 07 17:01:14 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.502	64	5368	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.230	152	96777M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.502	64	5368	126.078	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 25.22%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

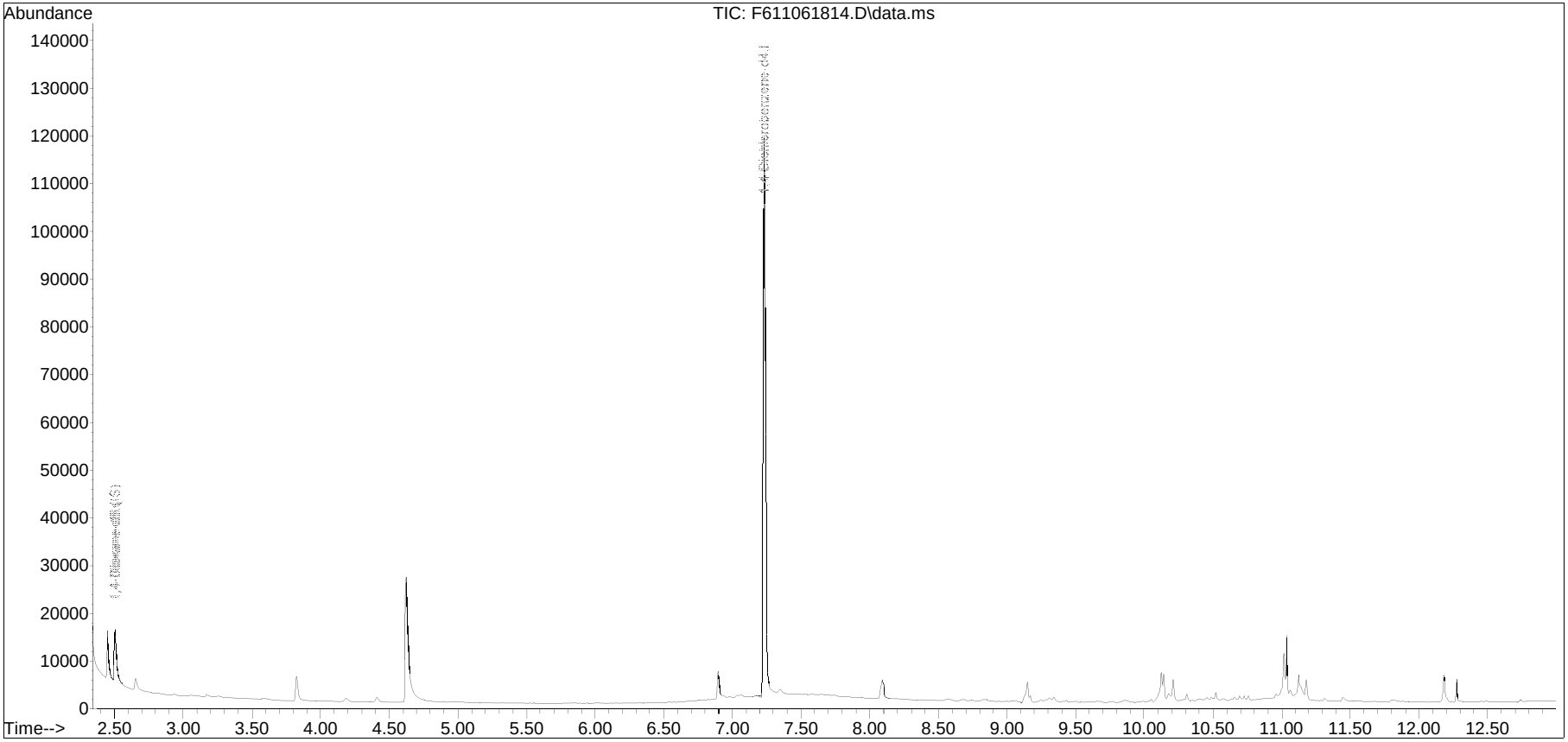
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061814.D
Acq On : 6 Nov 2018 3:57 pm
Operator : GCMS6:ps
Sample : l1844318-06
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 07 17:01:14 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

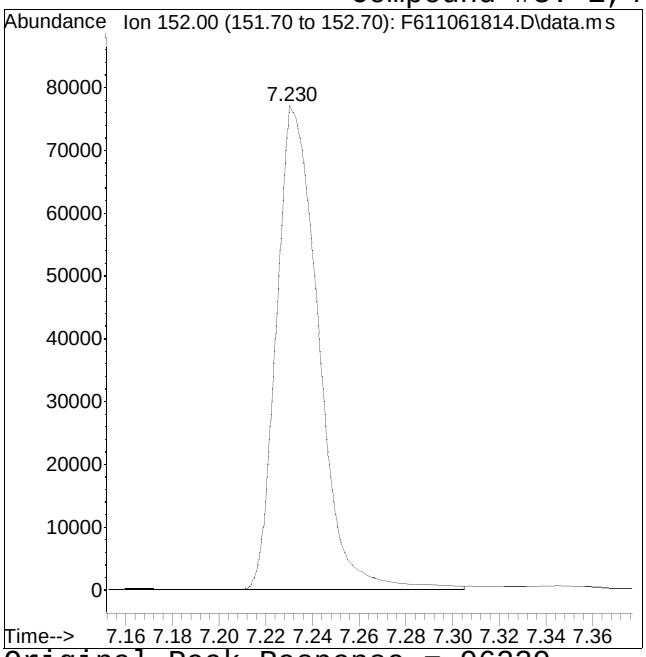


Manual Integration/Negative Proof Report

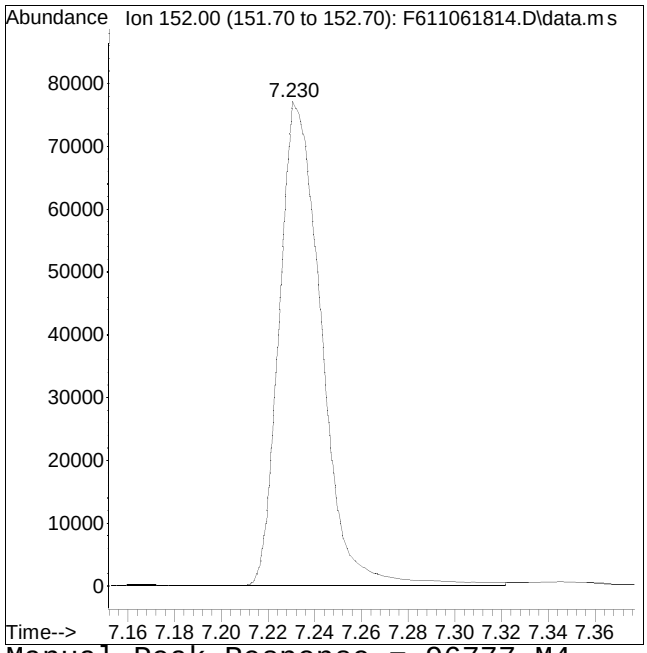
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061814.D
Date Inj'd : 11/6/2018 3:57 pm
Sample : l1844318-06

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 96239



Manual Peak Response = 96777 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061815.D
Acq On : 6 Nov 2018 4:26 pm
Operator : GCMS6:ps
Sample : l1844318-07
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 07 17:02:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.522	64	4149	500.000	ng/mL	0.07
3) 1,4-Dichlorobenzene-d4	7.236	152	100406M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.522	64	4132M4	93.540	ng/mL	0.07
Spiked Amount 500.000	Range 15 - 115		Recovery = 18.71%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

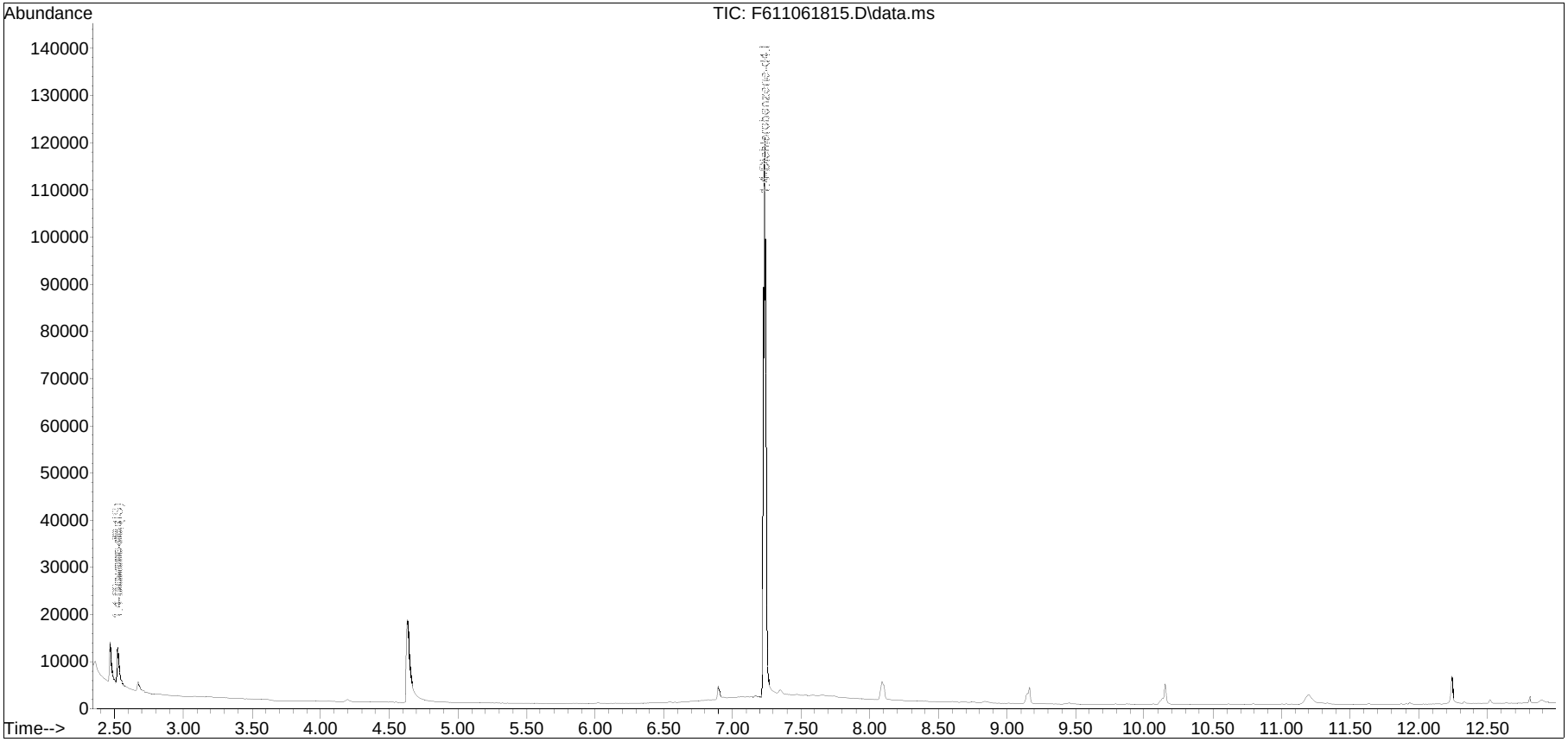
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061815.D
Acq On : 6 Nov 2018 4:26 pm
Operator : GCMS6:ps
Sample : l1844318-07
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 07 17:02:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

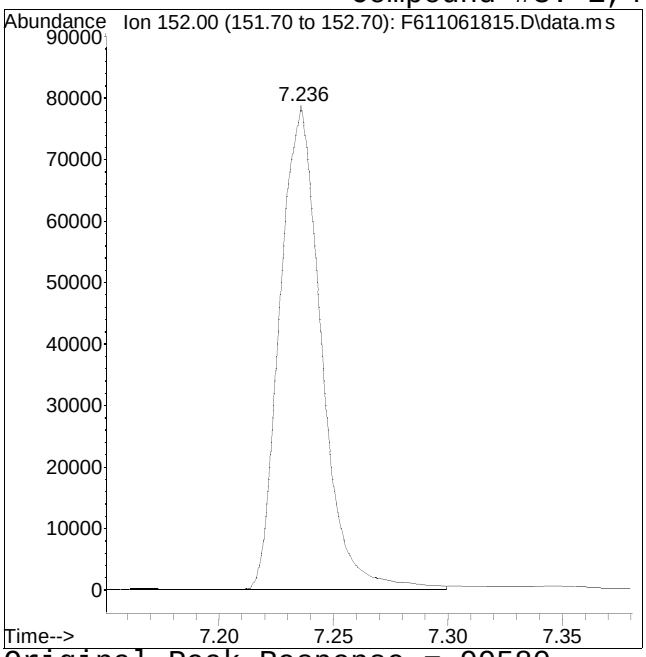


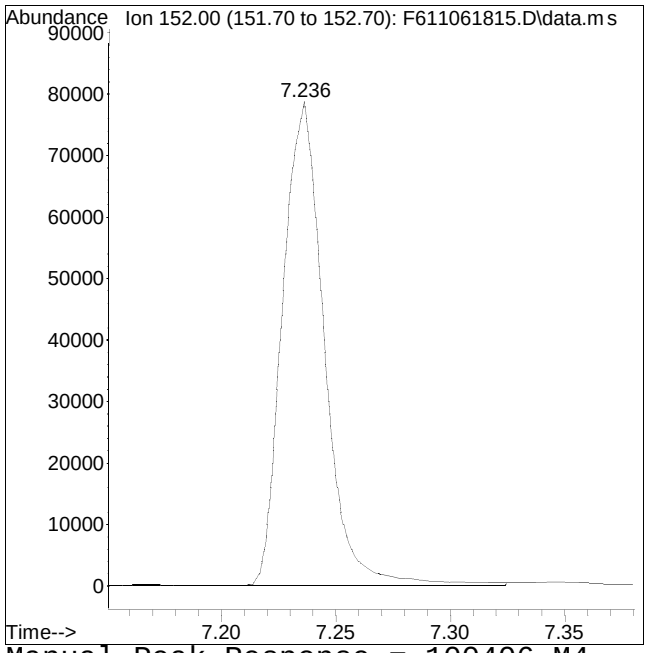
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061815.D
Date Inj'd : 11/6/2018 4:26 pm
Sample : l1844318-07

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #3: 1,4-Dichlorobenzene-d4





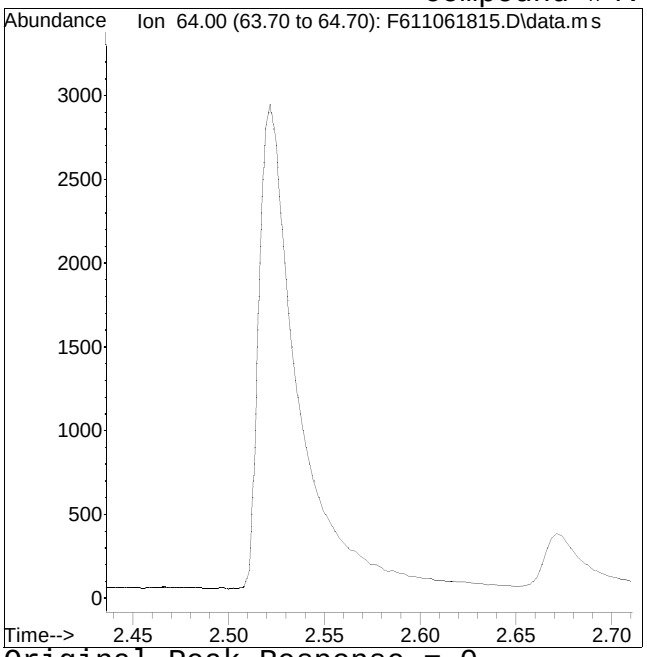
Original Peak Response = 99580 Manual Peak Response = 100406 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

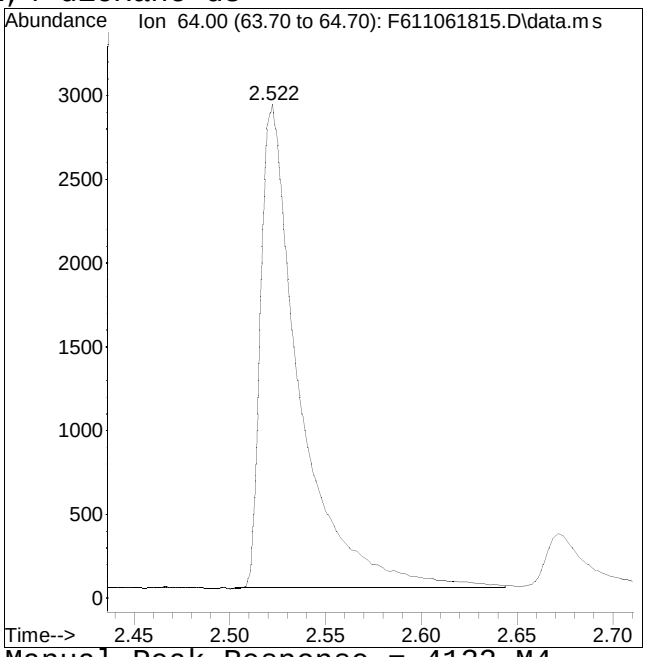
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061815.D
Date Inj'd : 11/6/2018 4:26 pm
Sample : l1844318-07

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 0



Manual Peak Response = 4132 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061816.D
Acq On : 6 Nov 2018 4:55 pm
Operator : GCMS6:ps
Sample : l1844318-08
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 07 09:25:50 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.494	64	4760	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.233	152	98480	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.494	64	4760	109.864	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.97%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

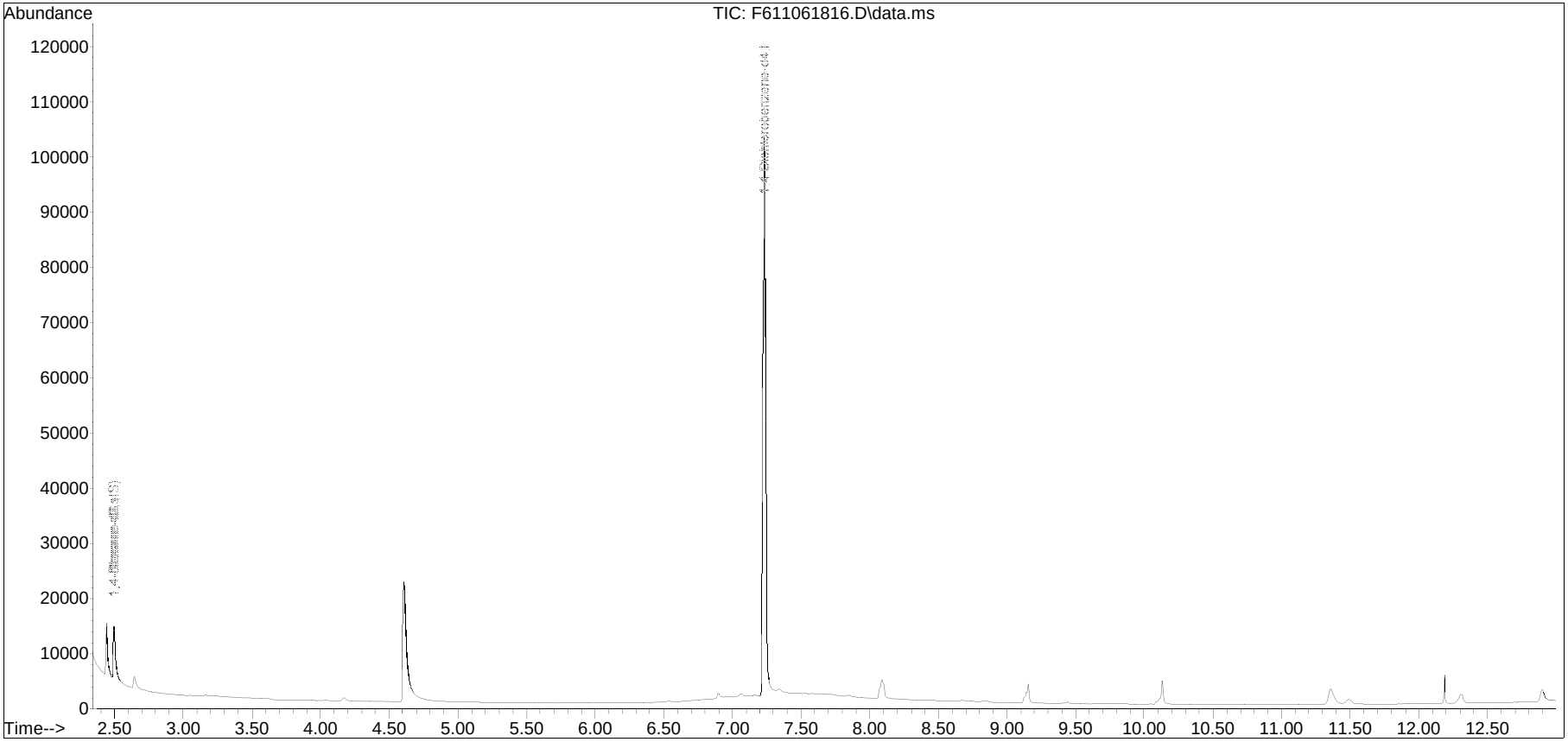
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061816.D
Acq On : 6 Nov 2018 4:55 pm
Operator : GCMS6:ps
Sample : l1844318-08
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 07 09:25:50 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061816.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 4:55 pm	Instrument	: GCMS6
Sample	: l1844318-08	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061819.D
Acq On : 6 Nov 2018 6:31 pm
Operator : GCMS6:ps
Sample : l1844318-09
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 07 17:06:07 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.500	64	4576	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.233	152	102113M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.500	64	4576	101.860	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 20.37%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

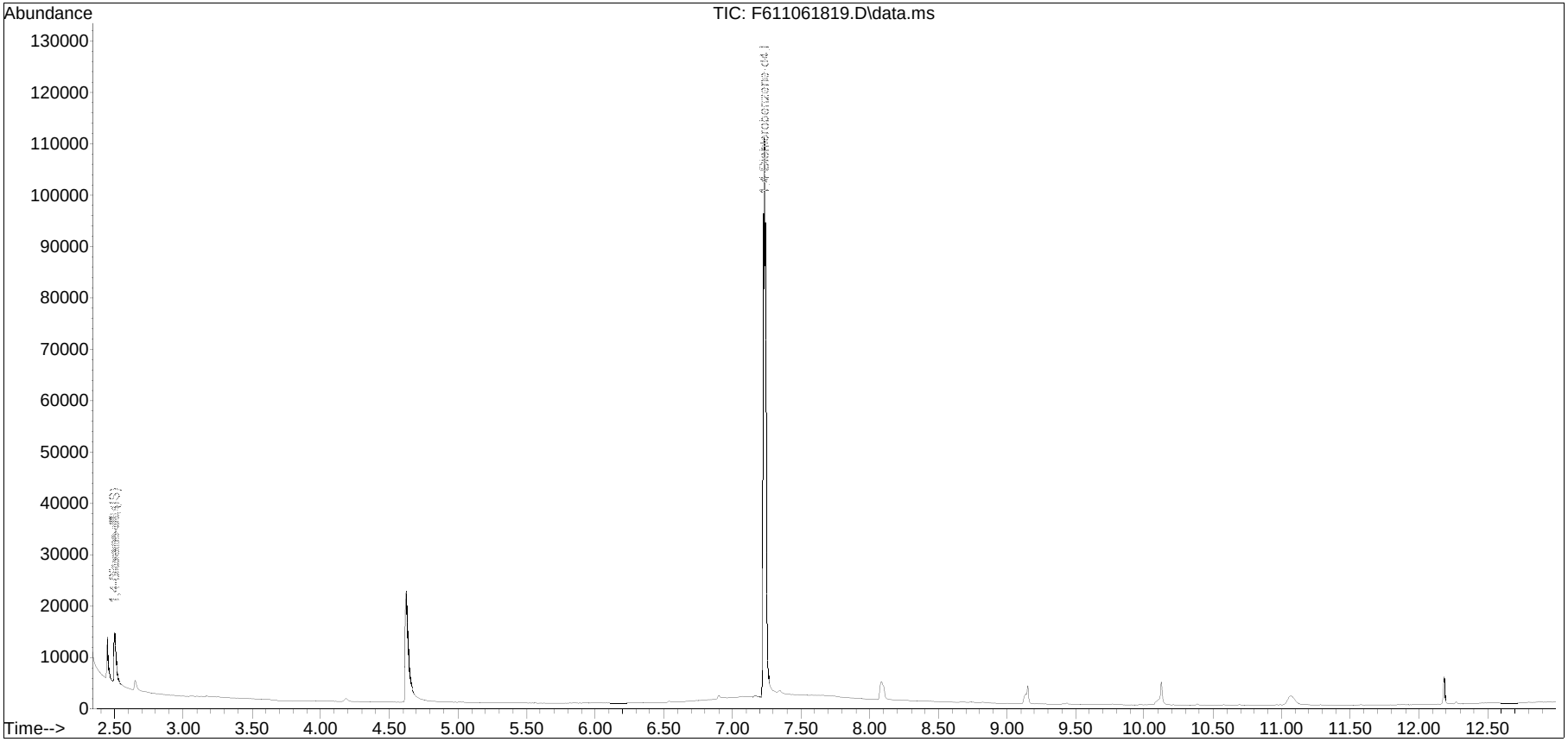
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061819.D
Acq On : 6 Nov 2018 6:31 pm
Operator : GCMS6:ps
Sample : l1844318-09
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 07 17:06:07 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

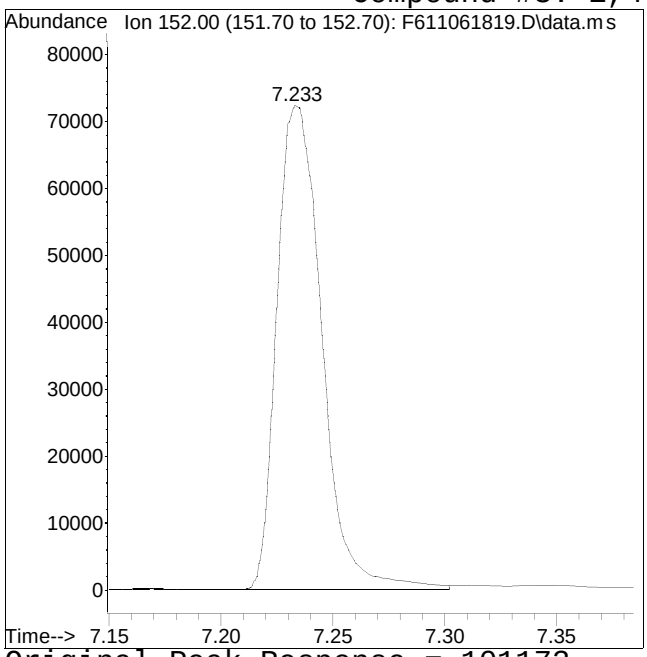


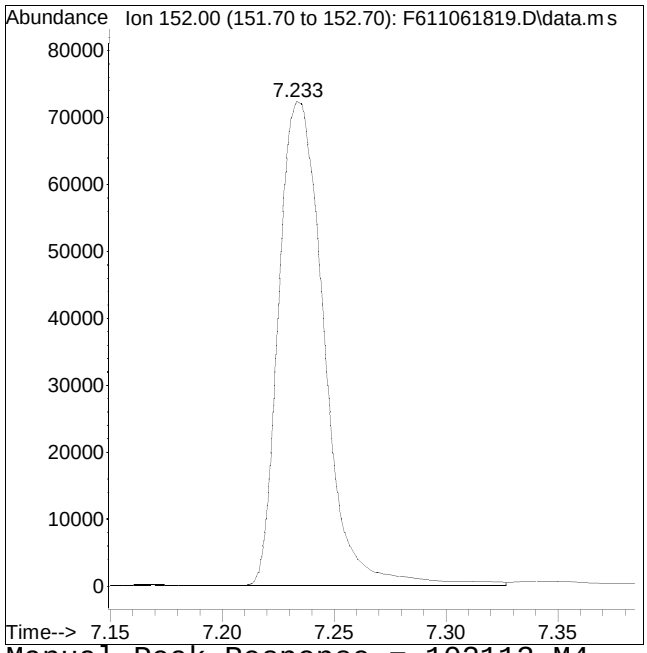
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061819.D
Date Inj'd : 11/6/2018 6:31 pm
Sample : l1844318-09

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 101173 Manual Peak Response = 102113 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061820.D
Acq On : 6 Nov 2018 7:03 pm
Operator : GCMS6:ps
Sample : l1844318-10
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 17:06:33 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.467	64	4299	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.233	152	91766M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.467	64	4299	106.484	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

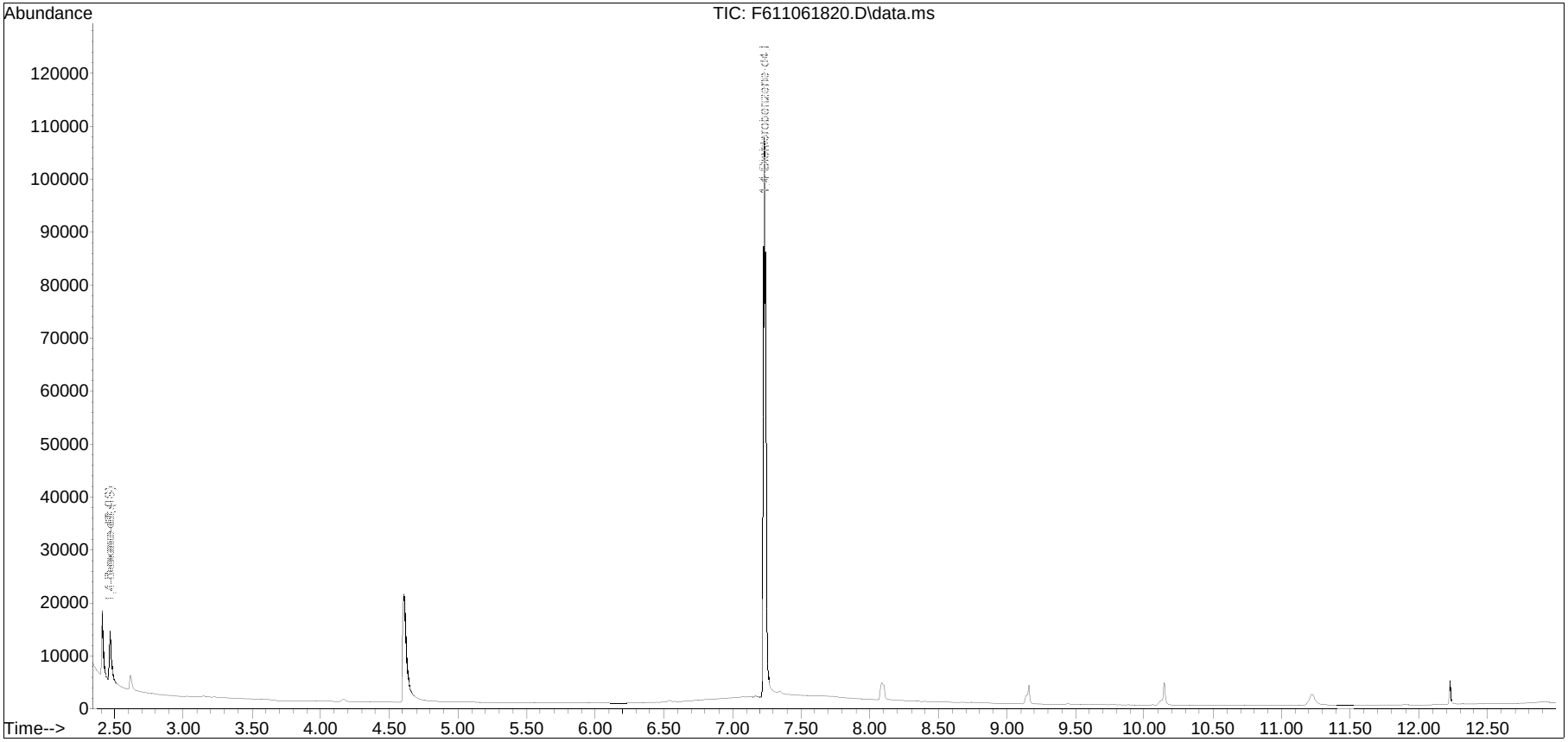
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061820.D
Acq On : 6 Nov 2018 7:03 pm
Operator : GCMS6:ps
Sample : l1844318-10
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 17:06:33 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

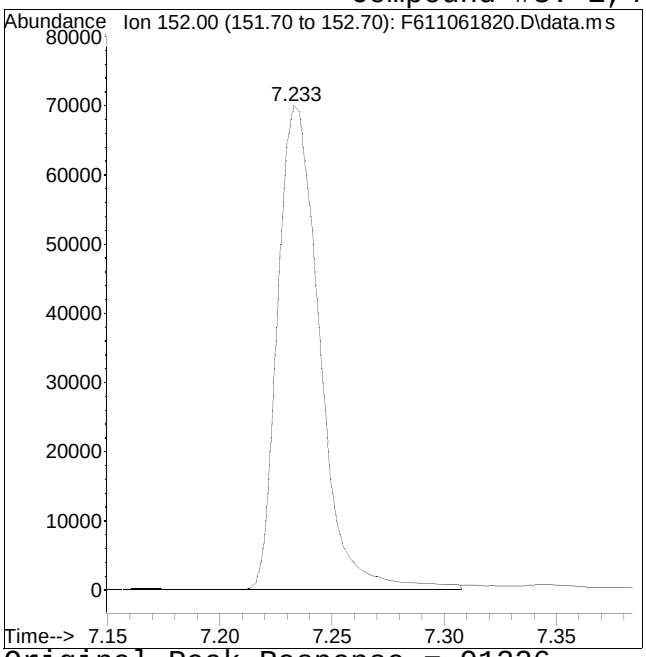


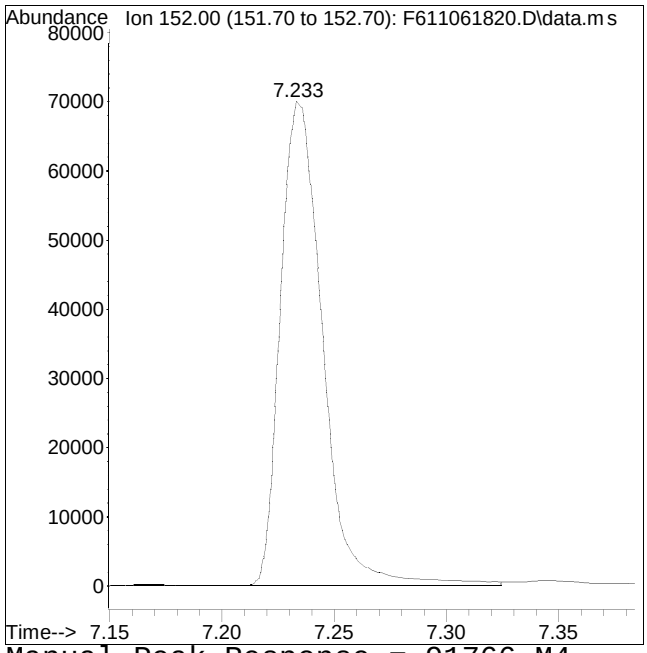
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061820.D
Date Inj'd : 11/6/2018 7:03 pm
Sample : l1844318-10

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:26 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 91226 Manual Peak Response = 91766 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061821.D
Acq On : 6 Nov 2018 7:35 pm
Operator : GCMS6:ps
Sample : l1844318-11
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 07 17:06:55 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.472	64	5445	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.233	152	91419M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.472	64	5445	135.382	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 27.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

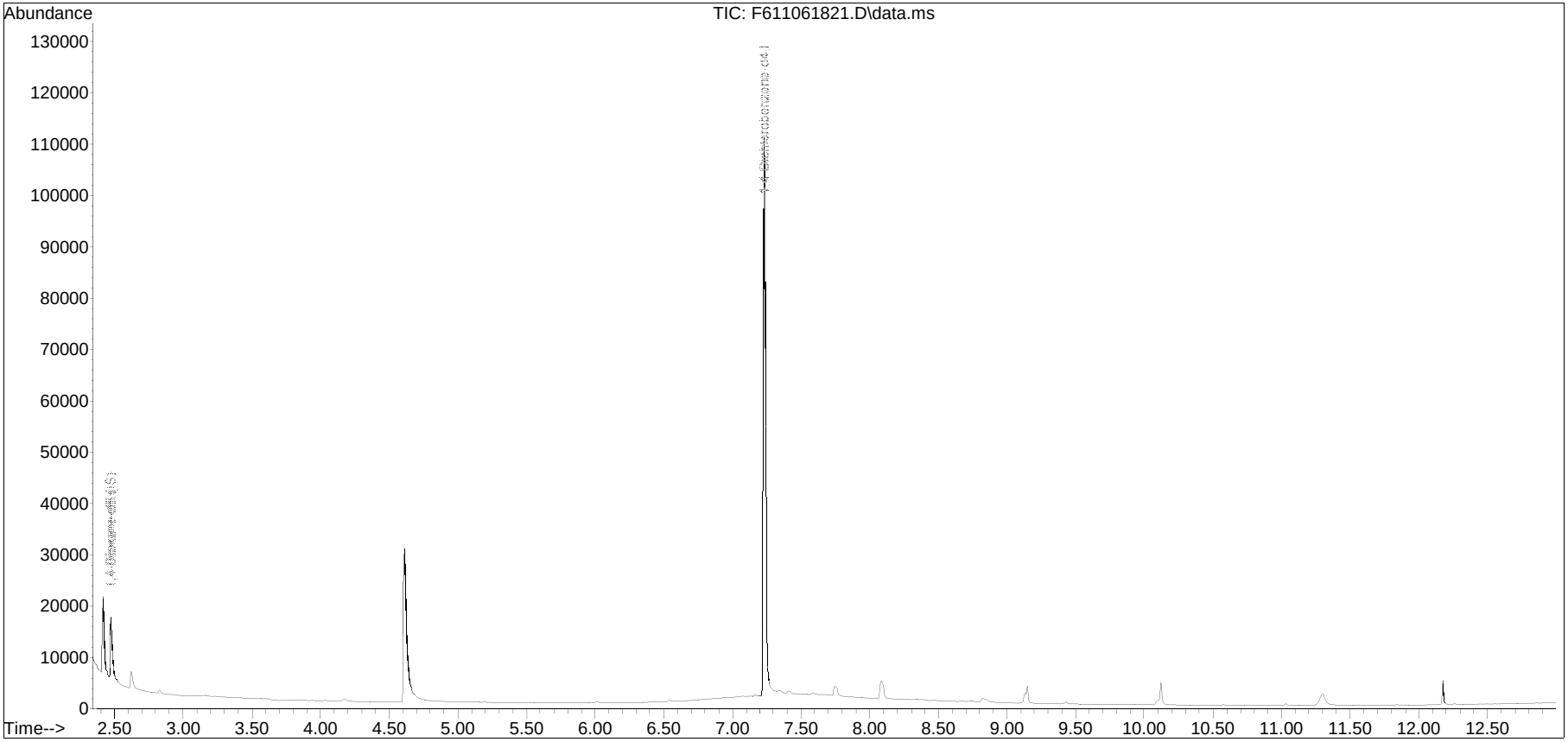
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061821.D
Acq On : 6 Nov 2018 7:35 pm
Operator : GCMS6:ps
Sample : l1844318-11
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 07 17:06:55 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

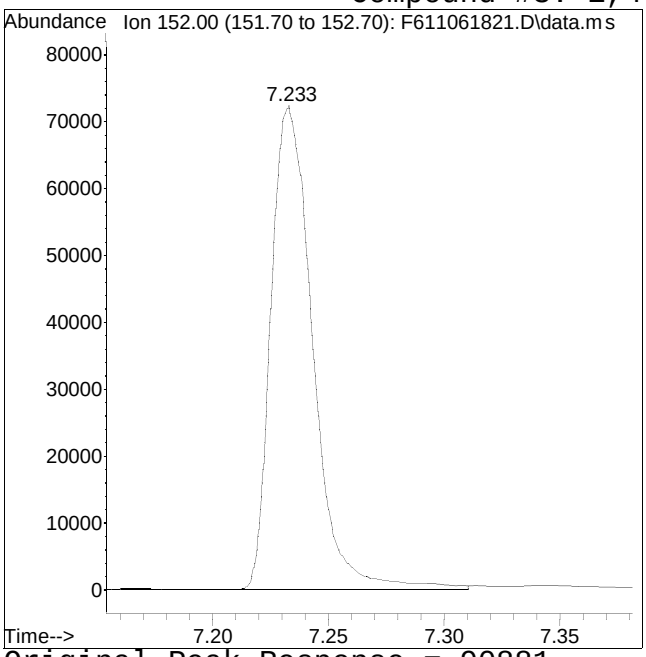


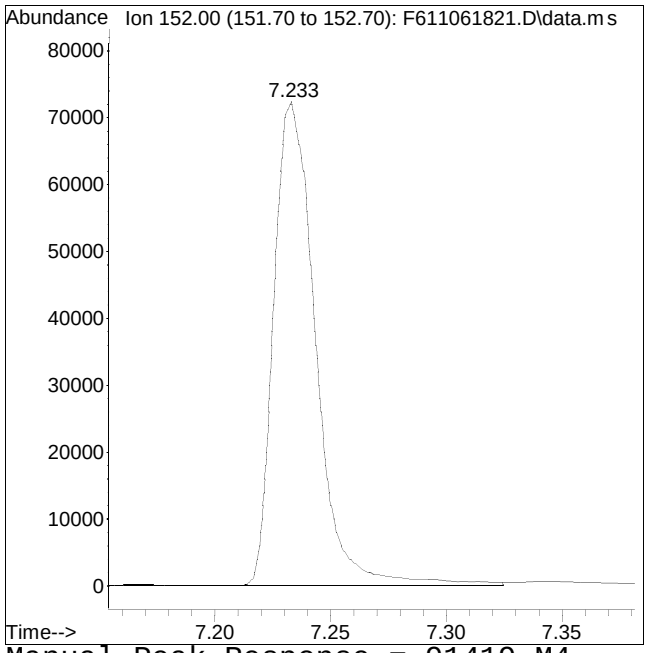
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061821.D
Date Inj'd : 11/6/2018 7:35 pm
Sample : l1844318-11

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:26 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 90881 Manual Peak Response = 91419 M4
M4 = Poor automated baseline construction.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: GCMS6**	**Ical Ref**	**: ICAL15108**
Calibration dates	**: 10/02/18 15:23 10/02/18 18:16**		

Calibration Files
10 =F610021802.D 50 =F610021803.D 100 =F610021804.D 500 =F610021805.D 1000=F610021806.D
5000=F610021807.D 1e04=F610021808.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.815	1.766	1.737	1.785	1.800	1.864	1.851	1.803	2.51
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.223	0.230	0.224	0.228	0.182	0.221	0.232	0.220	7.78

Response Factor Report GCMS6

Method Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Method File : 14DIOX1002GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Wed Oct 03 09:39:05 2018
Response Via : Initial Calibration

Calibration Files
10 =F610021802.D 50 =F610021803.D 100 =F610021804.D 500 =F610021805.D 1000=F610021806.D
5000=F610021807.D 1e04=F610021808.D

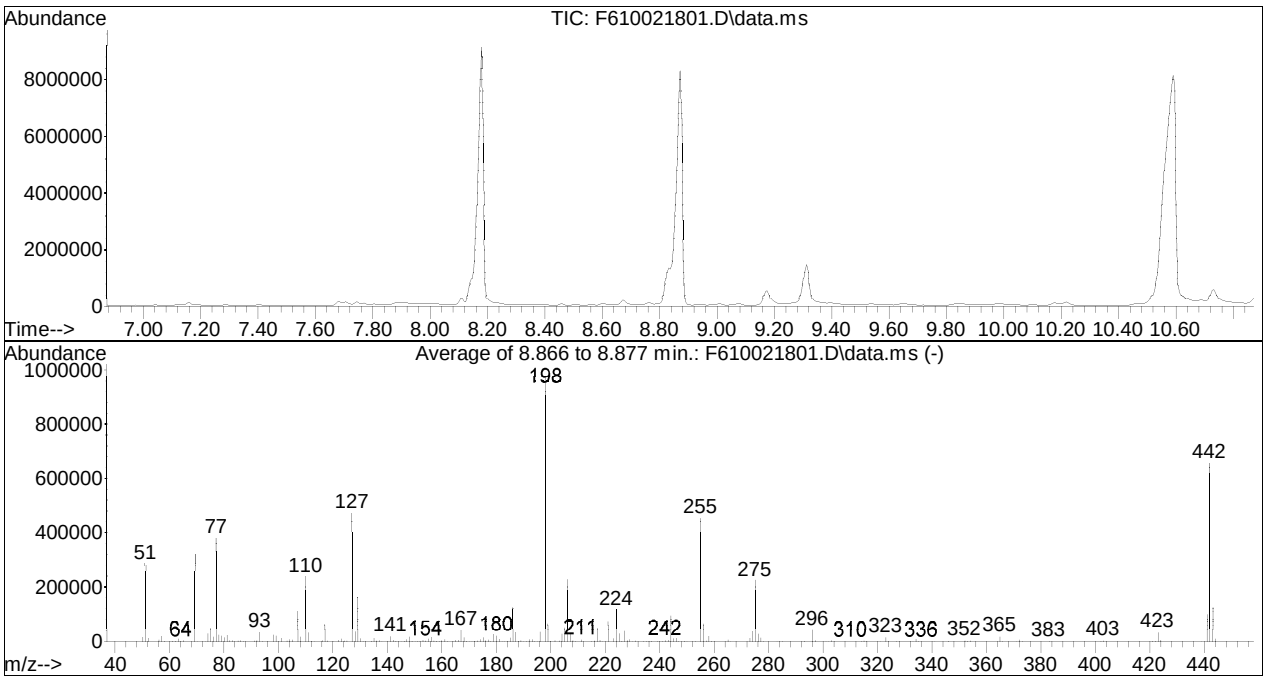
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.815	1.766	1.737	1.785	1.800	1.864	1.851	1.803	2.51
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.223	0.230	0.224	0.228	0.182	0.221	0.232	0.220	7.78

(#) = Out of Range

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021801.D
Acq On : 2 Oct 2018 2:34 pm
Operator : GCMS6:PS
Sample : T610021801
Misc : wg1163610,,MSAV74
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Wed Oct 03 09:39:05 2018



AutoFind: Scans 1010, 1011, 1012; Background Corrected with Scan 994

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.4	285429	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	1591	PASS
127	198	10	80	48.6	472459	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	971495	PASS
199	198	5	9	6.6	63937	PASS
275	198	10	60	23.1	224173	PASS
365	198	1	100	1.9	18213	PASS
441	442	0.01	24	15.1	99173	PASS
442	198	50	100	67.6	656316	PASS
443	442	15	24	19.2	125749	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021802.D
Acq On : 2 Oct 2018 3:23 pm
Operator : GCMS6:PS
Sample : I610021801
Misc : wg1163610,,MSAV51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 09:30:43 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.184	64	30437	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.619	152	136358	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.184	64	30437	612.666	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 122.53%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.234	88	1105M4	10.086	ng/mL	

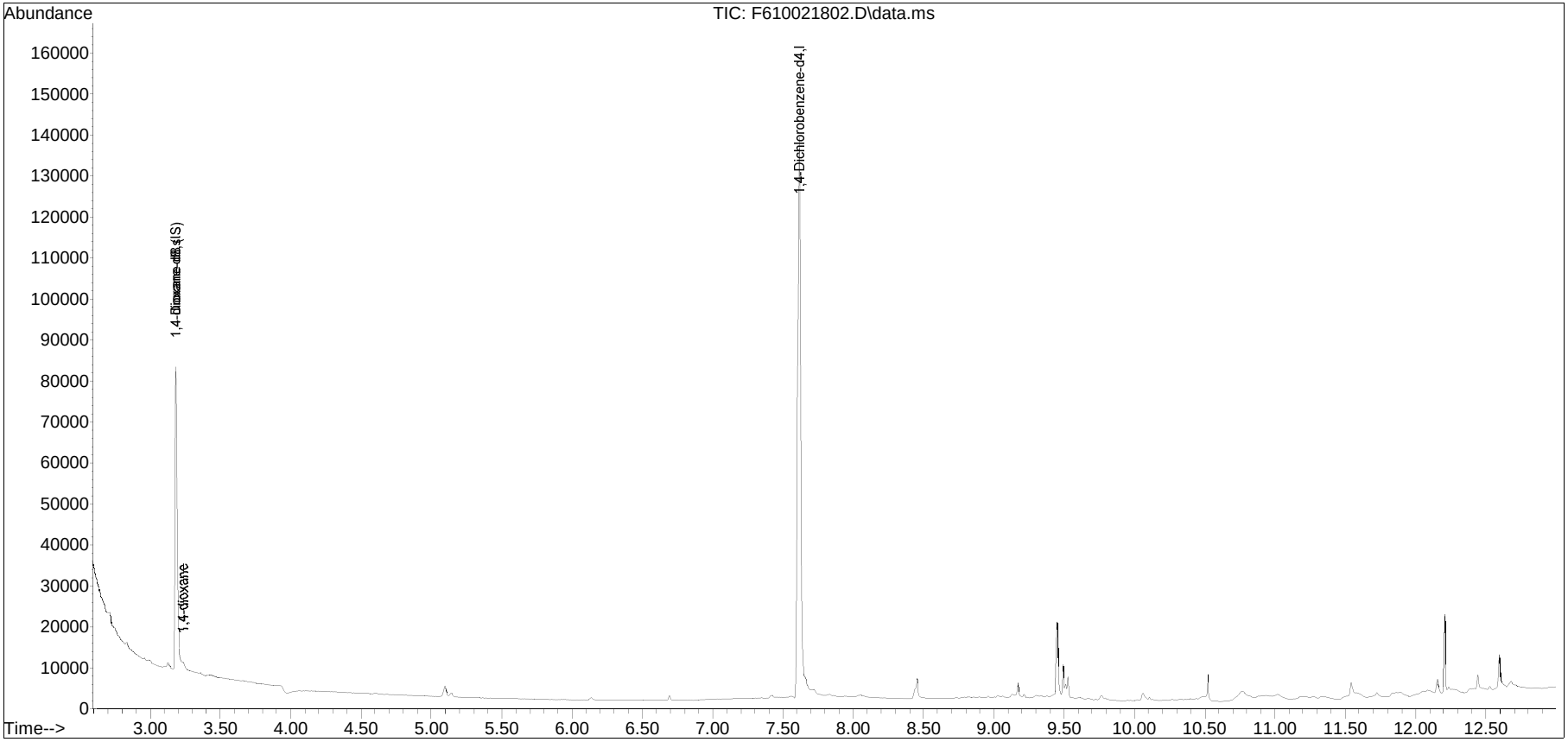
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021802.D
Acq On : 2 Oct 2018 3:23 pm
Operator : GCMS6:PS
Sample : I610021801
Misc : wg1163610,,MSAV51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 09:30:43 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

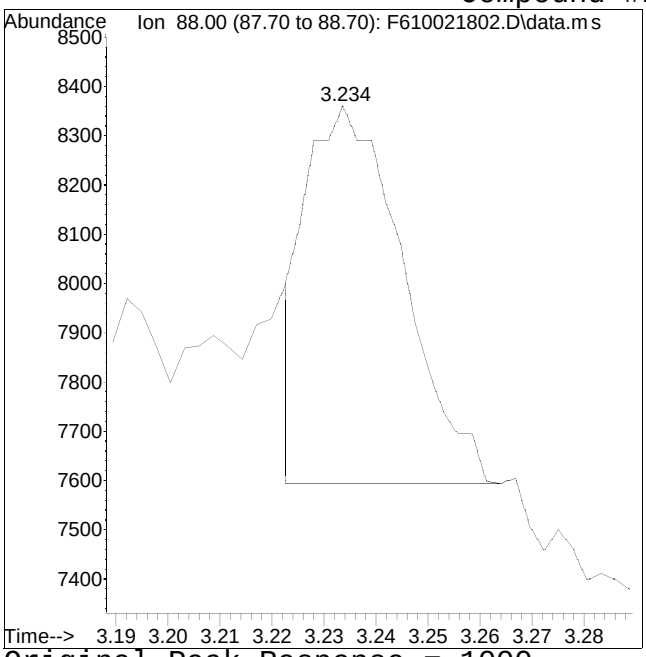


Manual Integration/Negative Proof Report

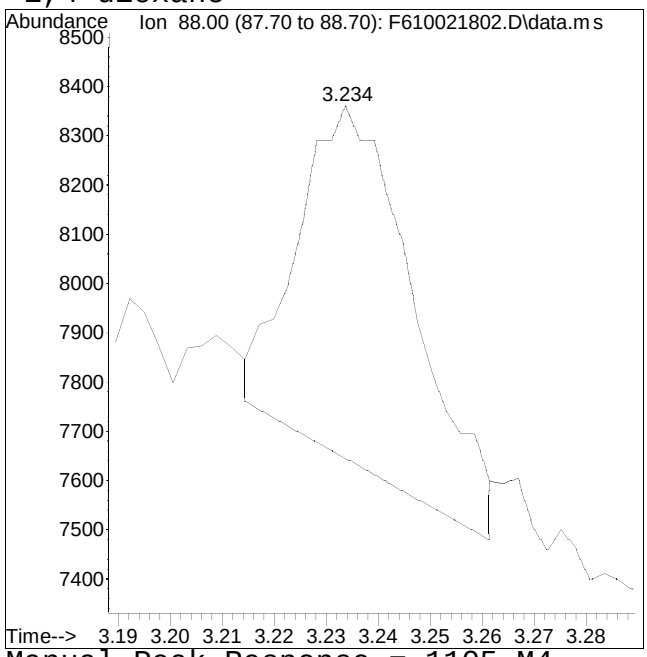
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021802.D
Date Inj'd : 10/2/2018 3:23 pm
Sample : I610021801

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane



Original Peak Response = 1000



Manual Peak Response = 1105 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021803.D
Acq On : 2 Oct 2018 3:52 pm
Operator : GCMS6:PS
Sample : I610021802
Misc : wg1163610,,MSAV52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 03 09:32:02 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.181	64	30463	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.615	152	132687	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.181	64	30463	630.154	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 126.03%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.225	88	5379M4	49.056	ng/mL	

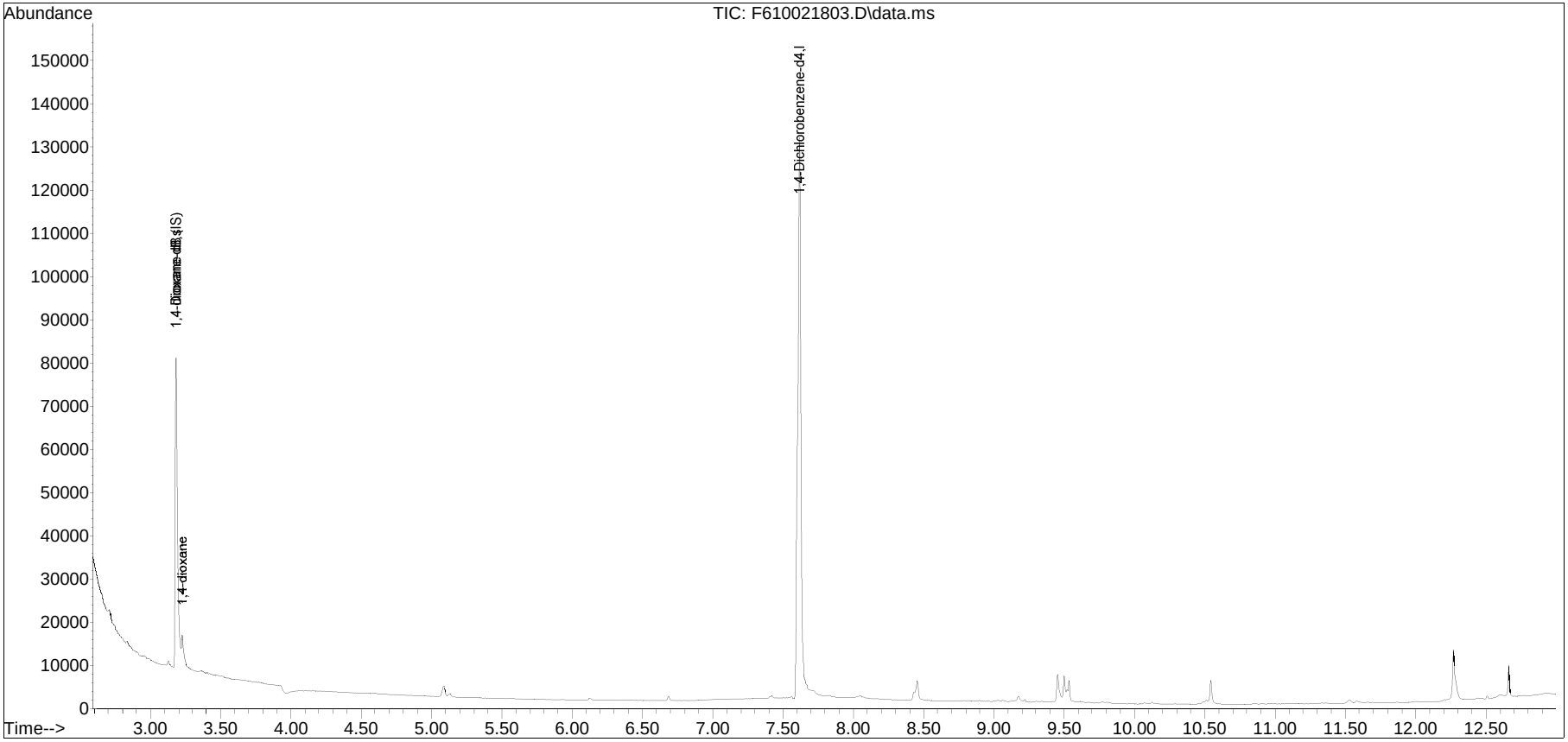
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021803.D
Acq On : 2 Oct 2018 3:52 pm
Operator : GCMS6:PS
Sample : I610021802
Misc : wg1163610,,MSAV52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 03 09:32:02 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

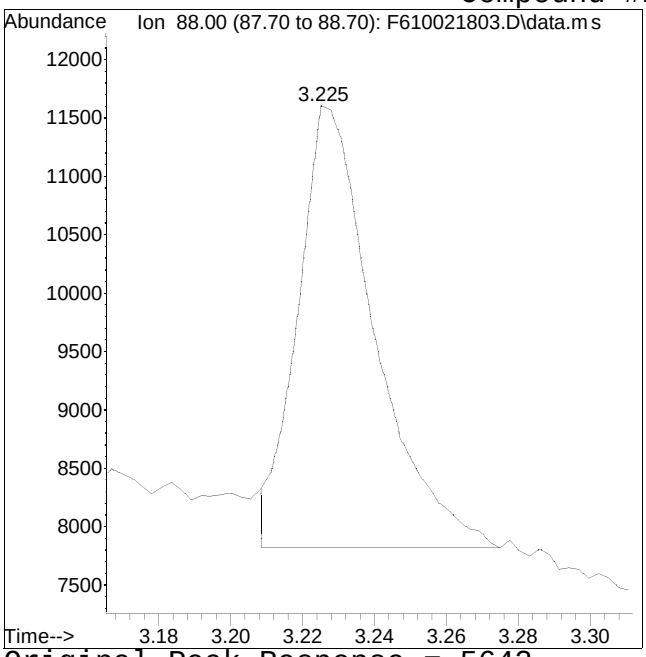


Manual Integration/Negative Proof Report

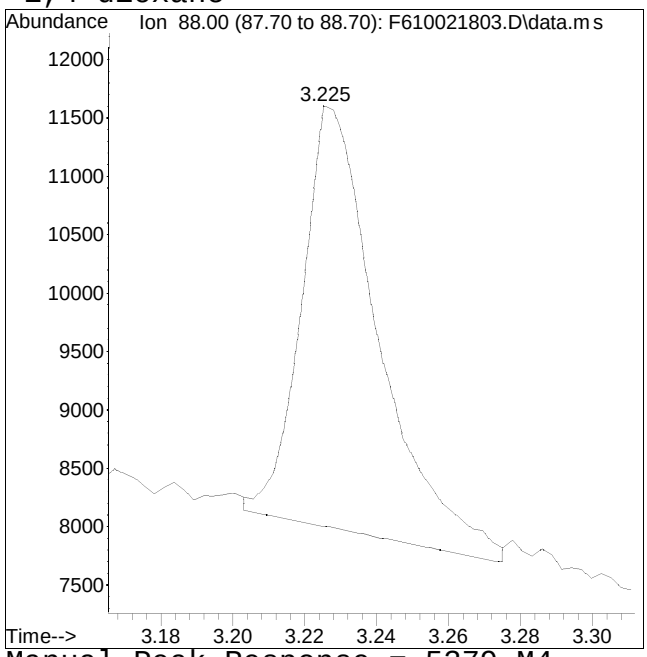
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021803.D
Date Inj'd : 10/2/2018 3:52 pm
Sample : I610021802

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane



Original Peak Response = 5642



Manual Peak Response = 5379 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021804.D
Acq On : 2 Oct 2018 4:21 pm
Operator : GCMS6:PS
Sample : I610021803
Misc : wg1163610,,MSAV53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 09:33:00 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.159	64	28843	500.000	ng/mL	-0.01
3) 1,4-Dichlorobenzene-d4	7.616	152	129046M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.159	64	28843	613.477	ng/mL	-0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 122.70%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.203	88	10021M4	96.525	ng/mL	

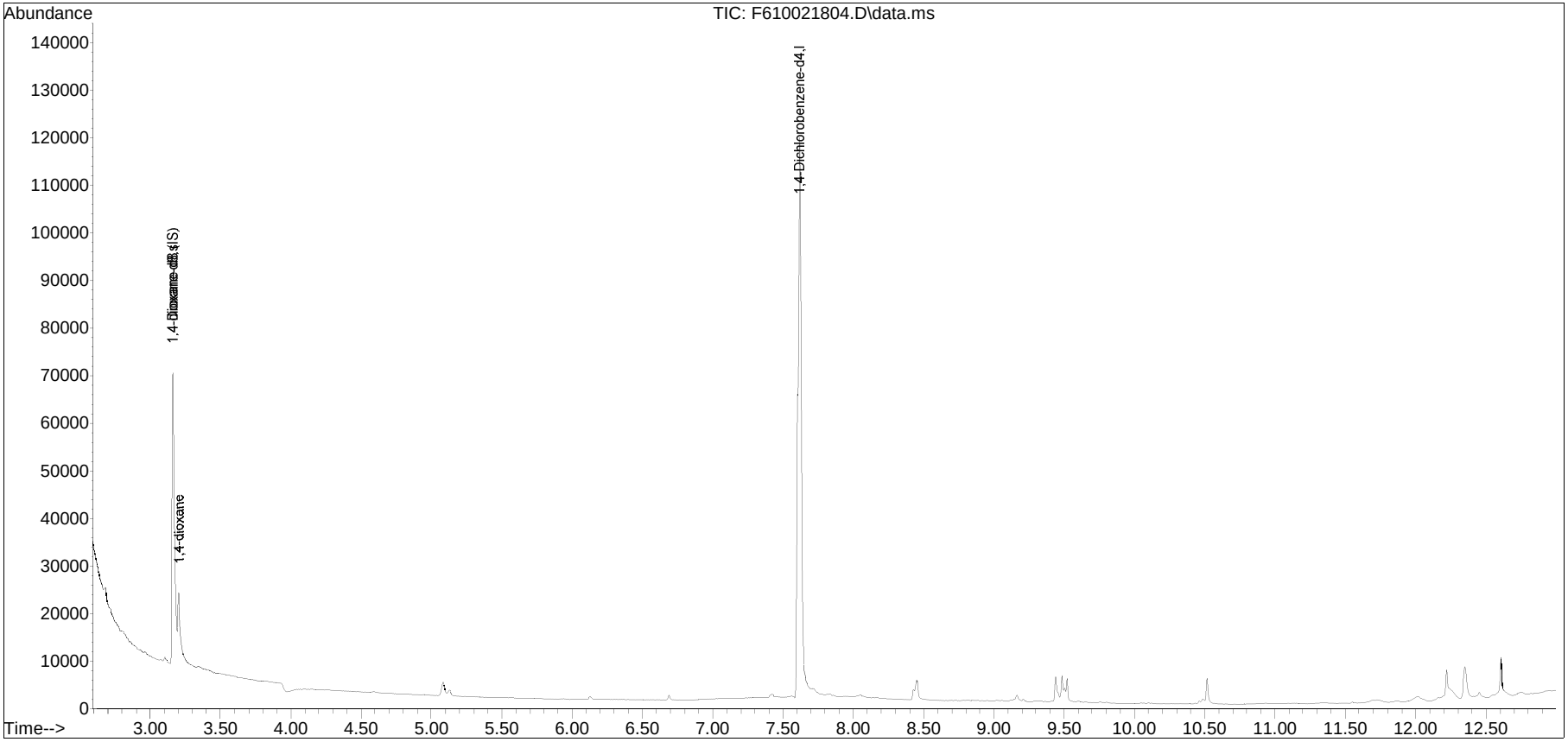
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021804.D
Acq On : 2 Oct 2018 4:21 pm
Operator : GCMS6:PS
Sample : I610021803
Misc : wg1163610,,MSAV53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 09:33:00 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

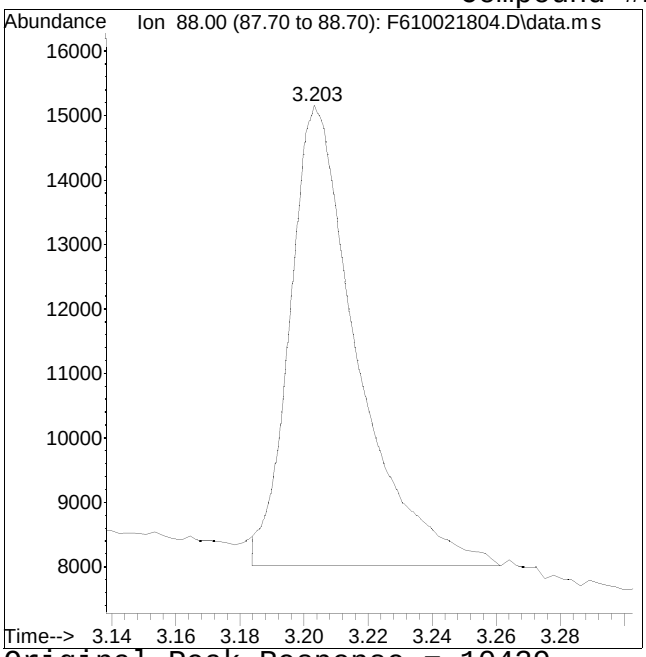


Manual Integration/Negative Proof Report

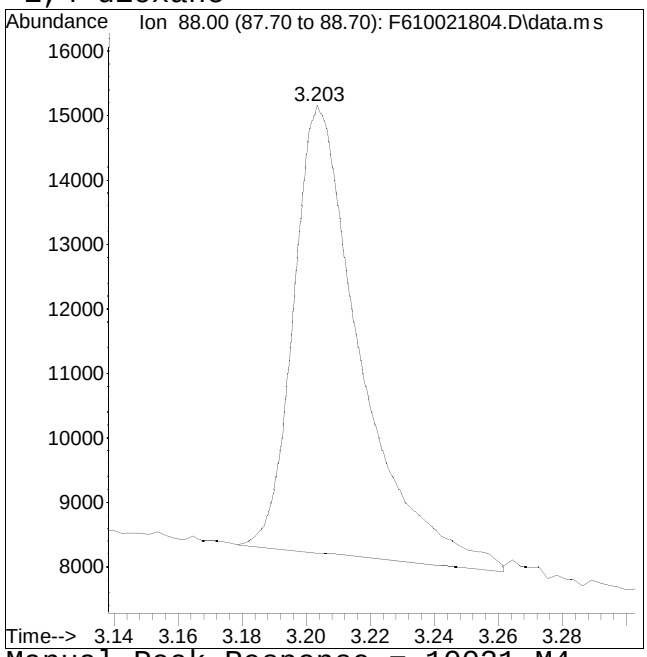
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021804.D
Date Inj'd : 10/2/2018 4:21 pm
Sample : I610021803

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane



Original Peak Response = 10439



Manual Peak Response = 10021 M4

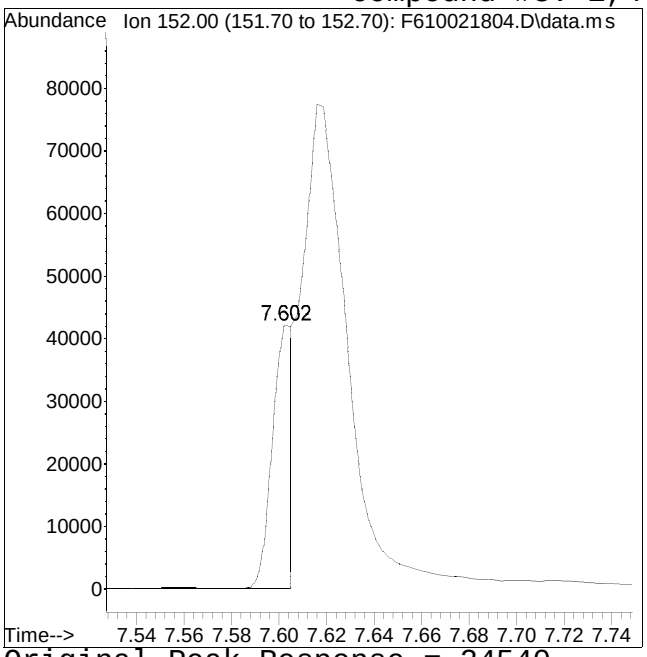
M4 = Poor automated baseline construction.

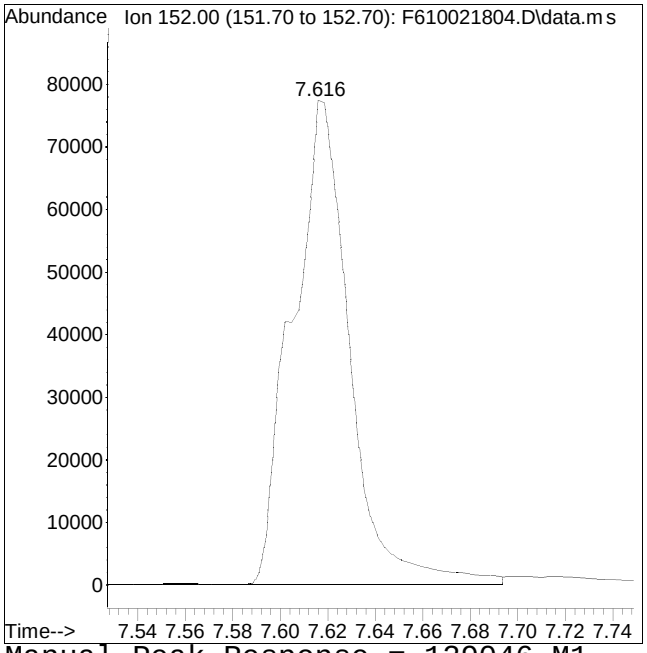
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021804.D
Date Inj'd : 10/2/2018 4:21 pm
Sample : I610021803

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 24540 Manual Peak Response = 129046 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021805.D
Acq On : 2 Oct 2018 4:49 pm
Operator : GCMS6:PS
Sample : I610021804
Misc : wg1163610,,MSAV54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 09:34:32 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.159	64	28370	500.000	ng/mL	-0.01
3) 1,4-Dichlorobenzene-d4	7.621	152	124487	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.159	64	28370	625.515	ng/mL	-0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 125.10%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.198	88	50638M4	495.889	ng/mL	

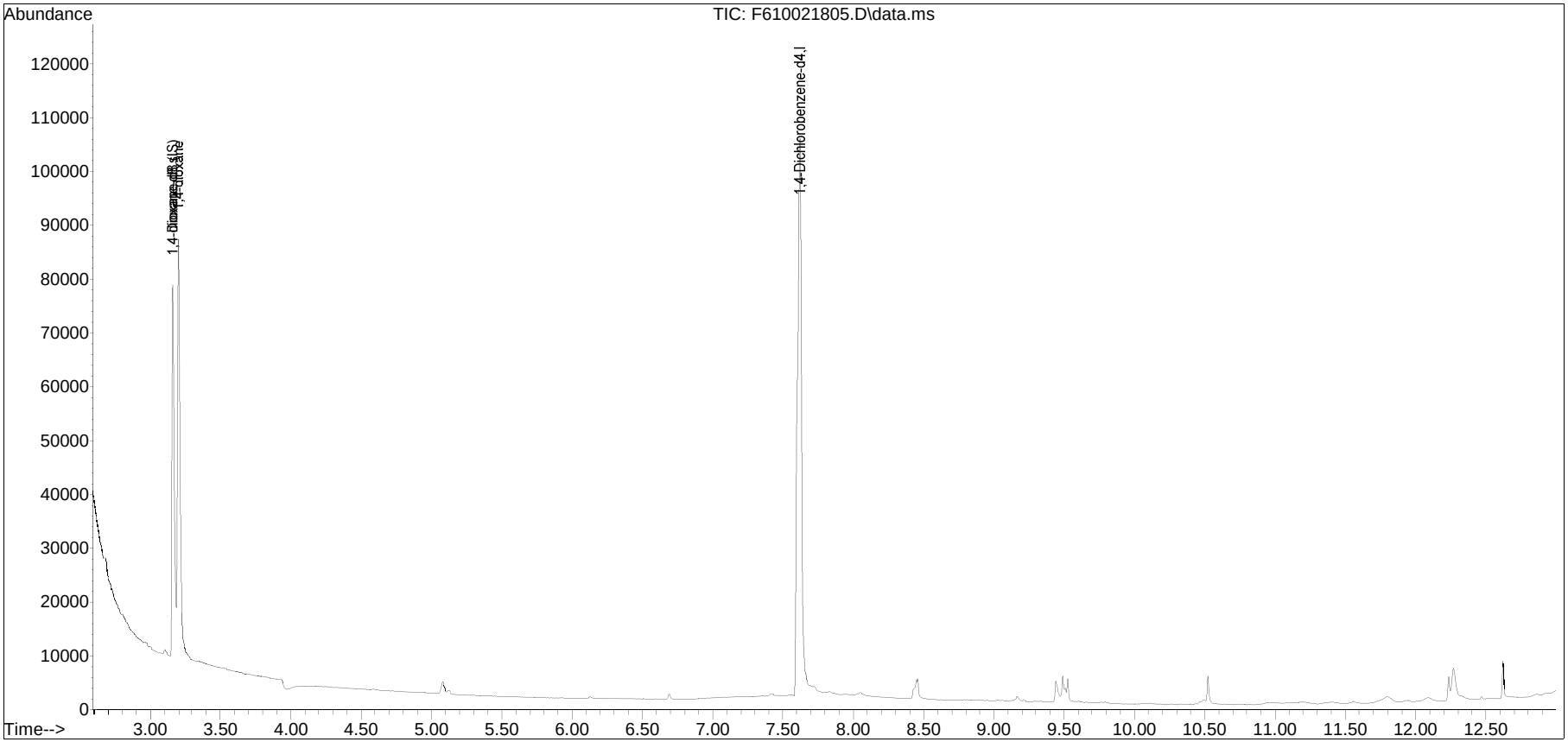
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021805.D
Acq On : 2 Oct 2018 4:49 pm
Operator : GCMS6:PS
Sample : I610021804
Misc : wg1163610,,MSAV54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 09:34:32 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

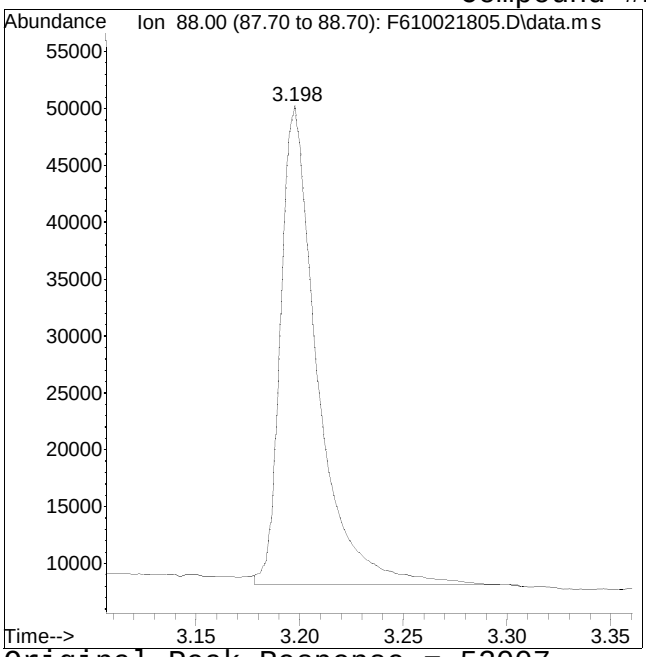


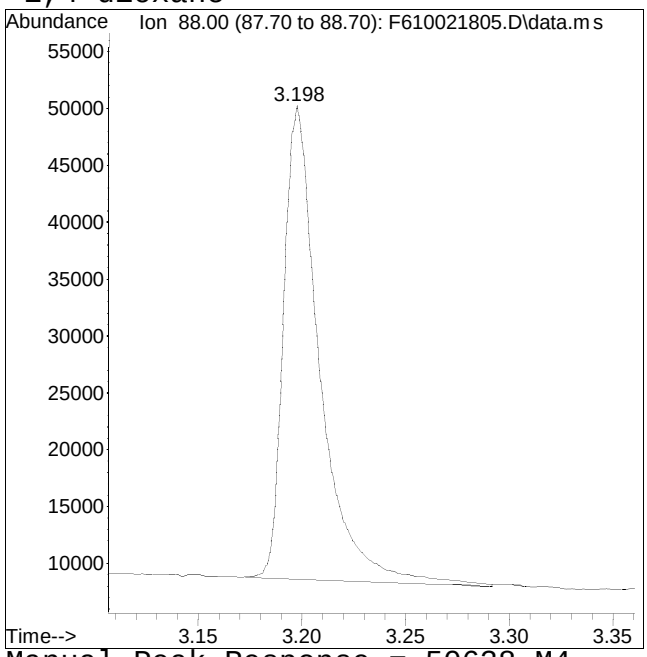
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021805.D
Date Inj'd : 10/2/2018 4:49 pm
Sample : I610021804

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane





Original Peak Response = 52007 Manual Peak Response = 50638 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021806.D
Acq On : 2 Oct 2018 5:19 pm
Operator : GCMS6:PS
Sample : I610021805
Misc : wg1163610,,MSAW38
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 09:38:31 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:37:25 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.173	64	27982	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.616	152	153607	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.173	64	27982	414.062	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 82.81%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.209	88	100719M4	998.403	ng/mL	

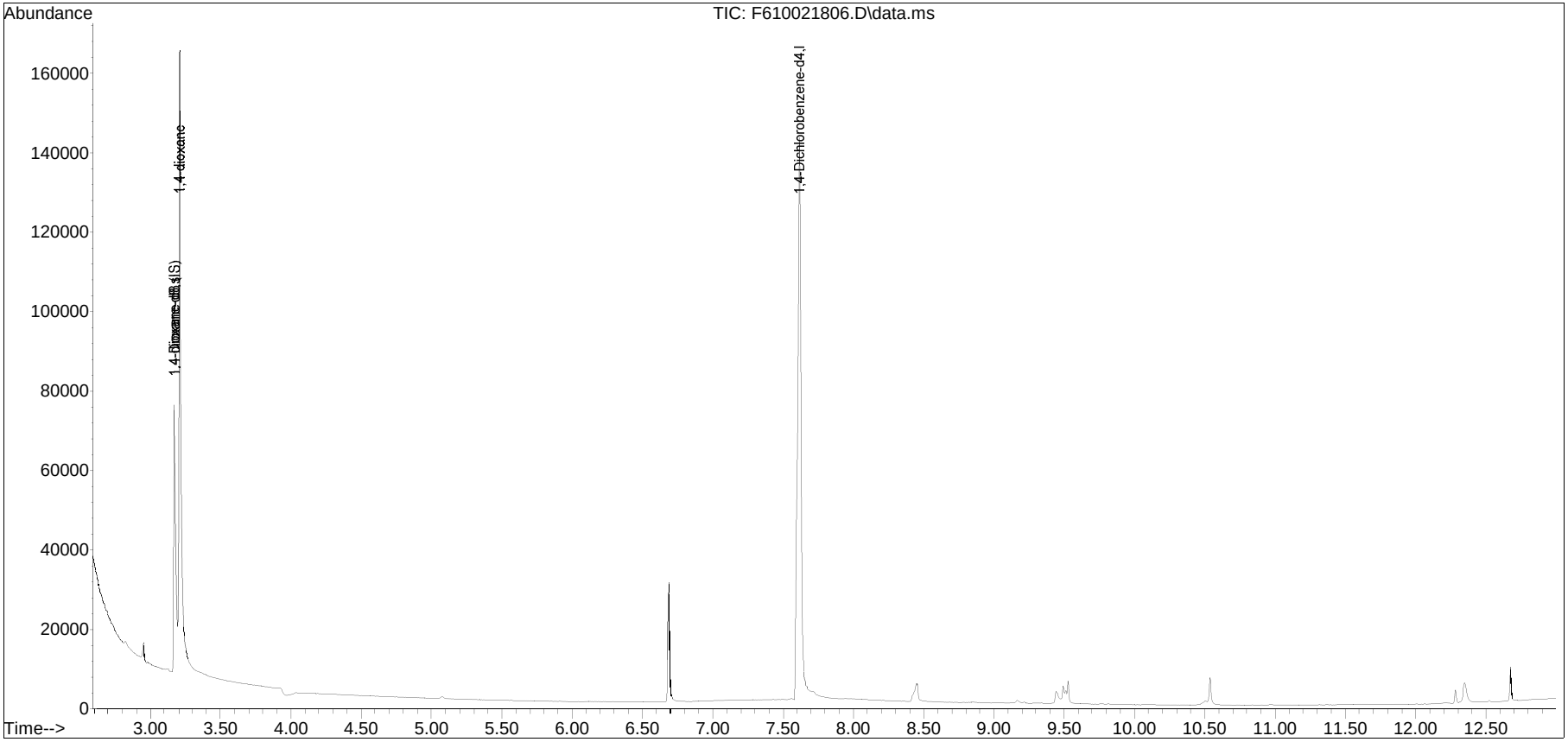
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021806.D
Acq On : 2 Oct 2018 5:19 pm
Operator : GCMS6:PS
Sample : I610021805
Misc : wg1163610,,MSAW38
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 09:38:31 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:37:25 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

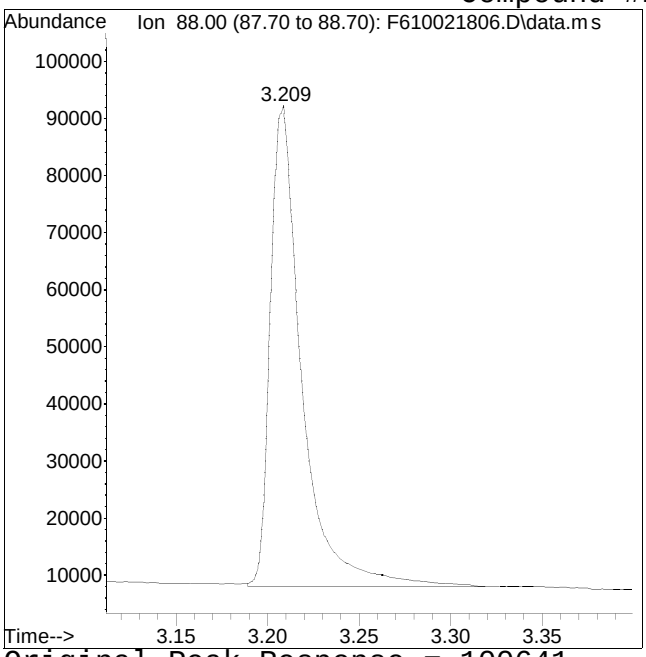


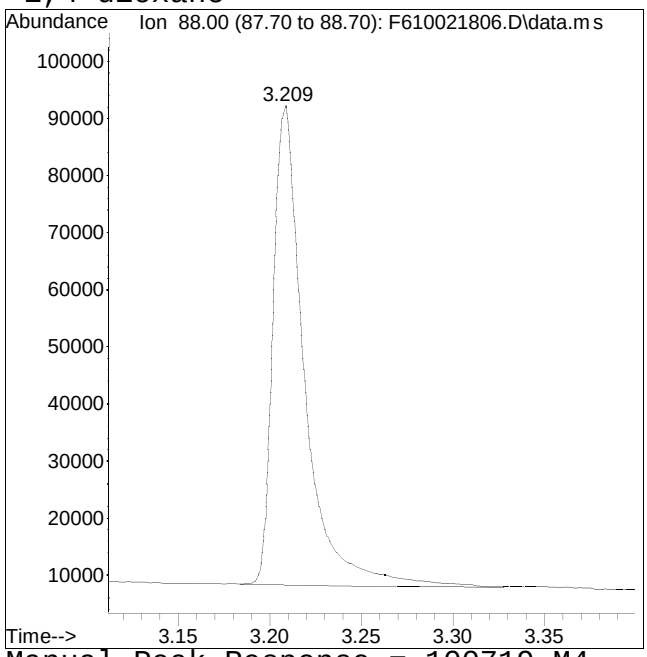
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021806.D
Date Inj'd : 10/2/2018 5:19 pm
Sample : I610021805

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:38 am

Compound #2: 1,4-dioxane





Original Peak Response = 100641 Manual Peak Response = 100719 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021807.D
Acq On : 2 Oct 2018 5:47 pm
Operator : GCMS6:PS
Sample : I610021806
Misc : wg1163610,,MSAV56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 09:36:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.167	64	27776	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.615	152	125503	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.167	64	27776	607.460	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 121.49%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.200	88	517802M4	5179.184	ng/mL	

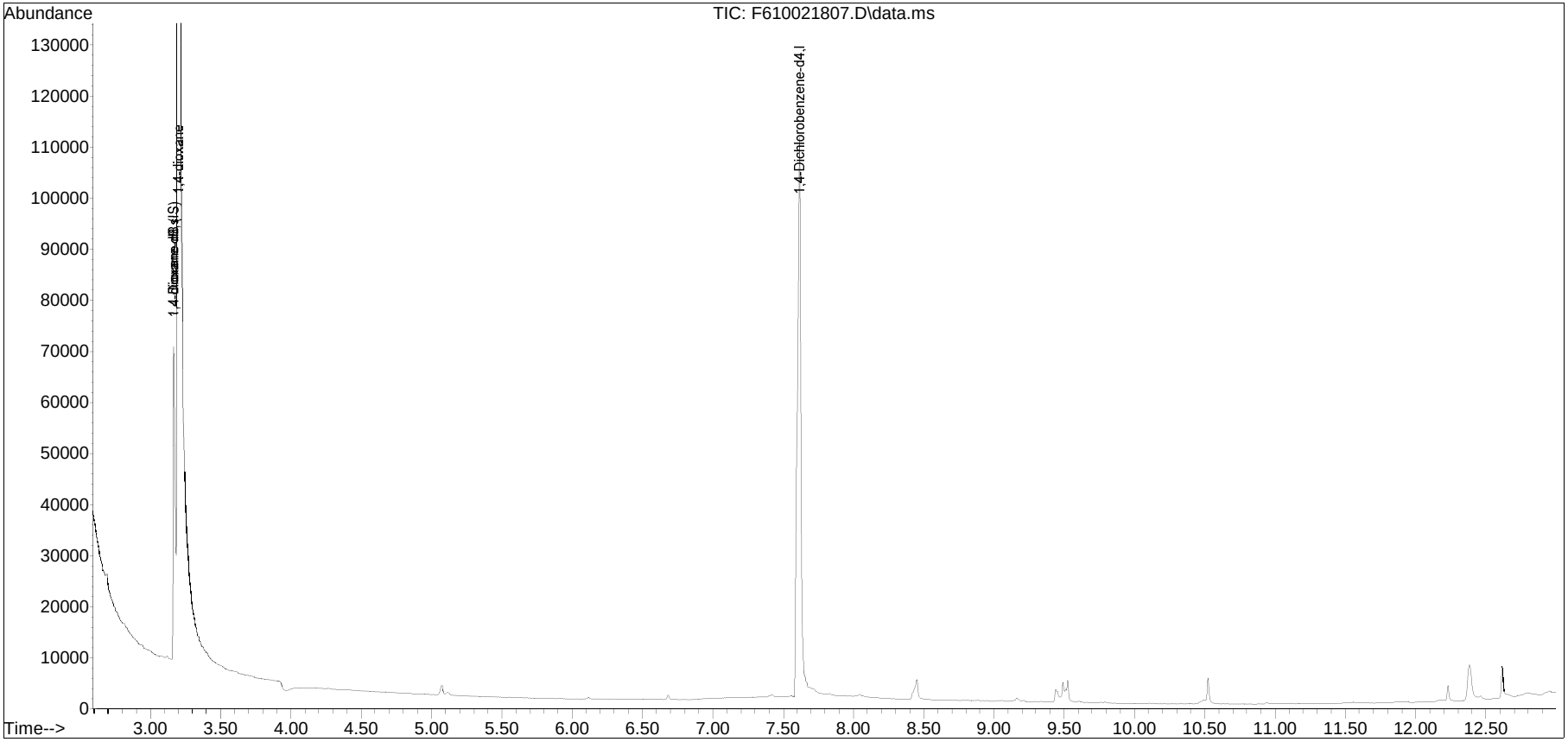
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021807.D
Acq On : 2 Oct 2018 5:47 pm
Operator : GCMS6:PS
Sample : I610021806
Misc : wg1163610,,MSAV56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 09:36:30 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

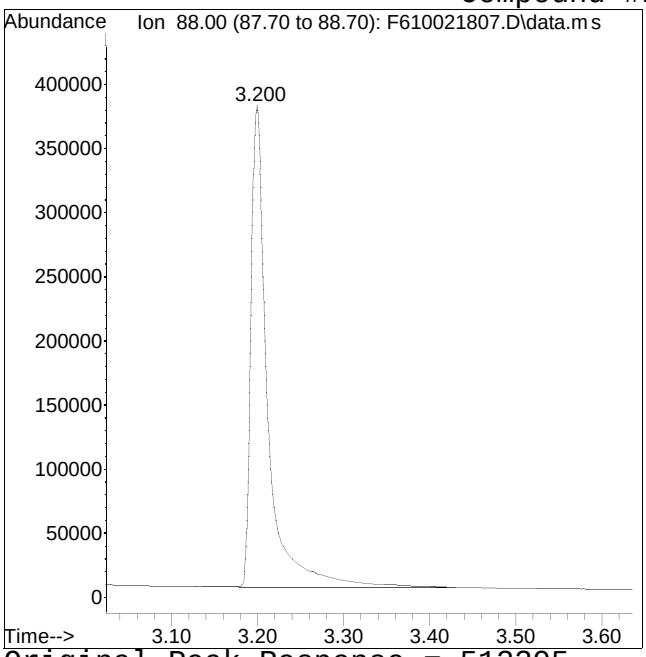


Manual Integration/Negative Proof Report

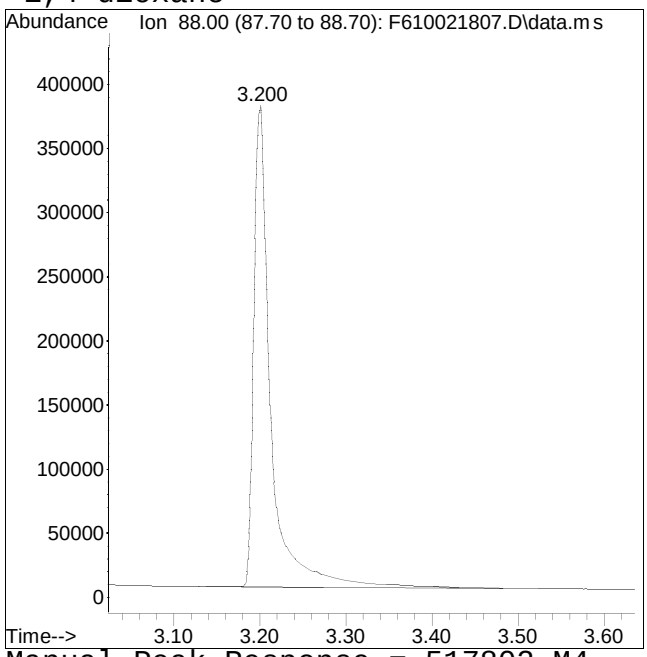
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021807.D
Date Inj'd : 10/2/2018 5:47 pm
Sample : I610021806

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane



Original Peak Response = 512395



Manual Peak Response = 517802 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021808.D
Acq On : 2 Oct 2018 6:16 pm
Operator : GCMS6:PS
Sample : I610021807
Misc : wg1163610,,MSAV50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 09:37:13 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.131	64	27852	500.000	ng/mL	-0.04
3) 1,4-Dichlorobenzene-d4	7.619	152	119983	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.131	64	27852	637.146	ng/mL	-0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 127.43%#			
Target Compounds						Qvalue
2) 1,4-dioxane	3.167	88	1031170M4	10285.875	ng/mL	

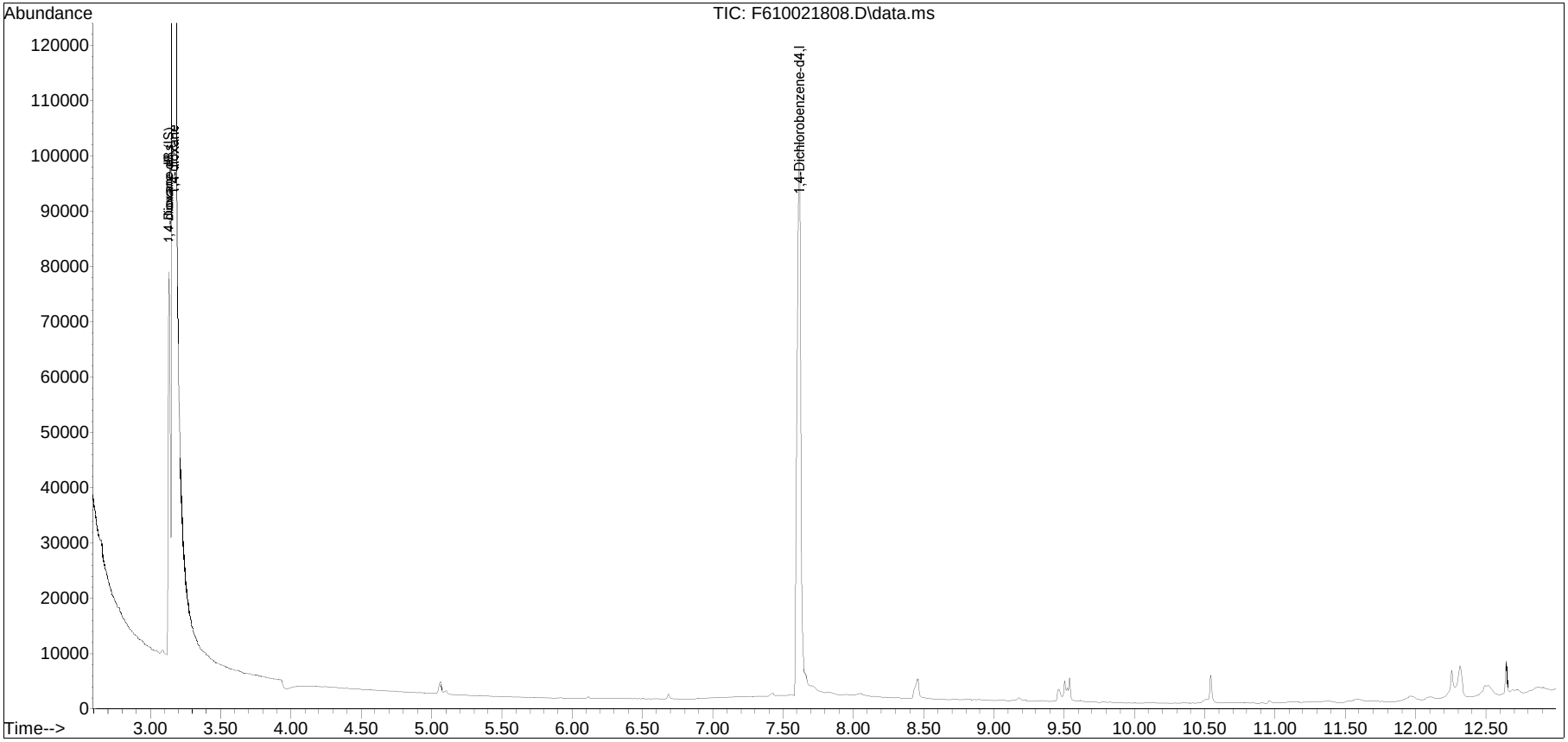
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021808.D
Acq On : 2 Oct 2018 6:16 pm
Operator : GCMS6:PS
Sample : I610021807
Misc : wg1163610,,MSAV50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 09:37:13 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 09:23:37 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

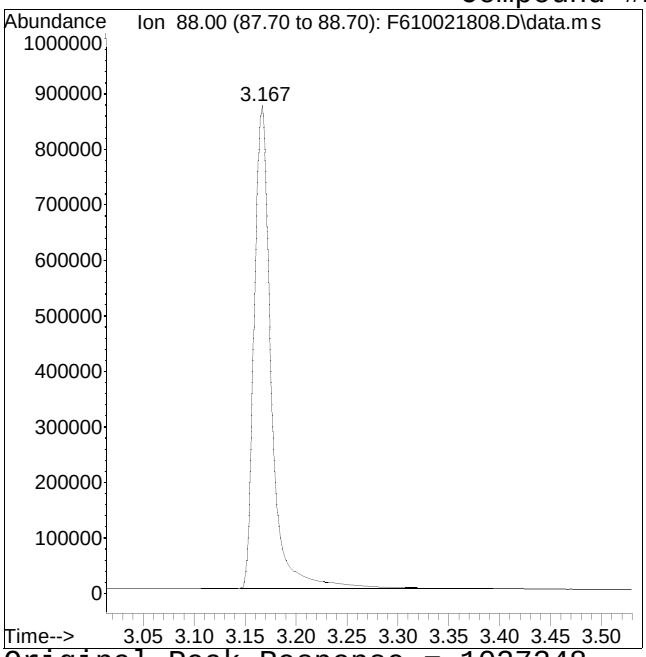


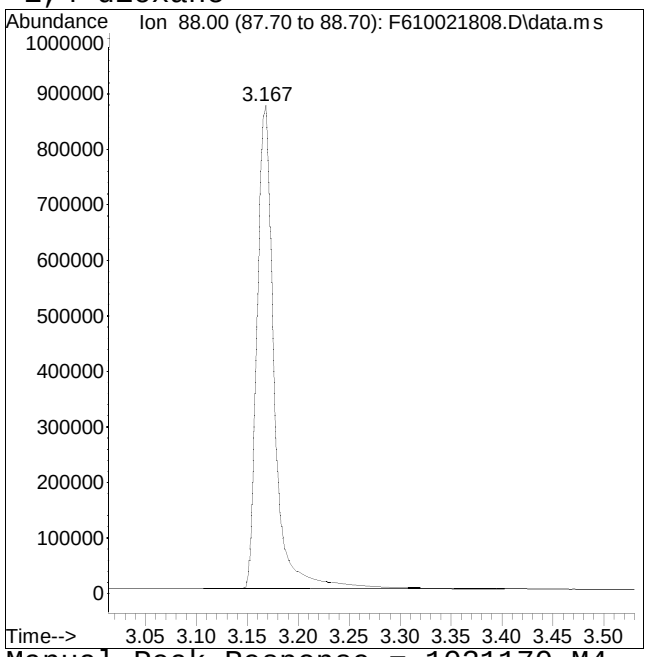
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021808.D
Date Inj'd : 10/2/2018 6:16 pm
Sample : I610021807

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 9:24 am

Compound #2: 1,4-dioxane





Original Peak Response = 1027248 Manual Peak Response = 1031170 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021809.D
Acq On : 2 Oct 2018 6:45 pm
Operator : GCMS6:PS
Sample : CQ610021801
Misc : wg1163610,,MSAW62
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 12:13:42 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 12:11:35 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	93	-0.04
2	1,4-dioxane	1.803	1.927	-6.9	100	-0.04
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
4 s	1,4-dioxane-d8	0.220	0.211	4.1	86	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021809.D
Acq On : 2 Oct 2018 6:45 pm
Operator : GCMS6:PS
Sample : CQ610021801
Misc : wg1163610,,MSAW62
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 12:13:42 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 12:11:35 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.134	64	26141	500.000	ng/mL	-0.04
3) 1,4-Dichlorobenzene-d4	7.619	152	123728	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.134	64	26141	480.233	ng/mL	-0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 96.05%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.170	88	100754M4	1069.087	ng/mL	

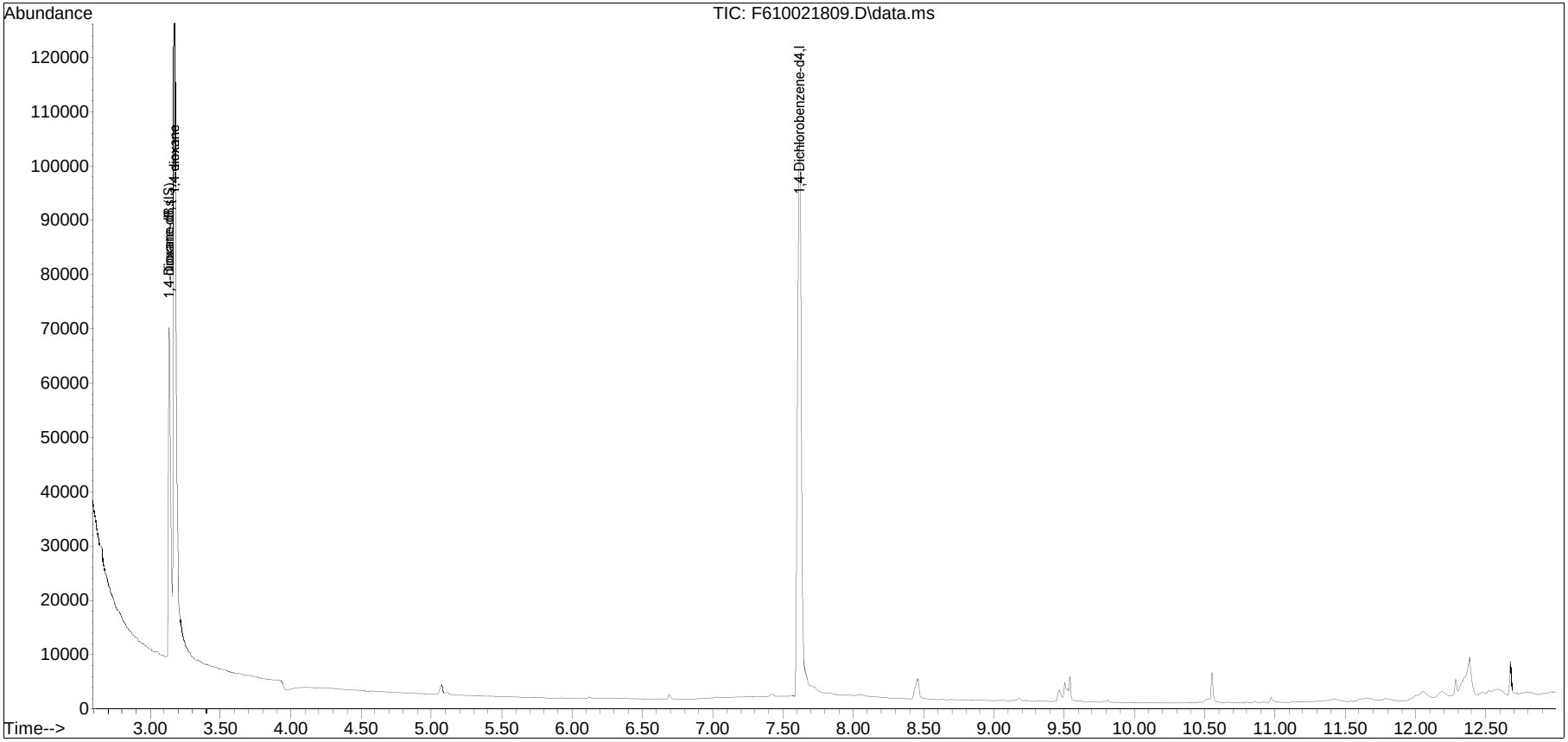
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\
Data File : F610021809.D
Acq On : 2 Oct 2018 6:45 pm
Operator : GCMS6:PS
Sample : CQ610021801
Misc : wg1163610,,MSAW62
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 12:13:42 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\OCT\OCT02\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Oct 03 12:11:35 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

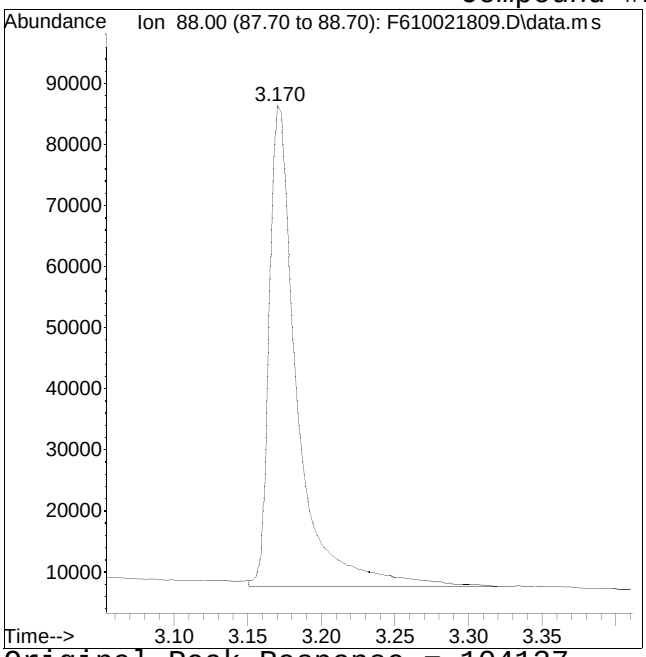


Manual Integration/Negative Proof Report

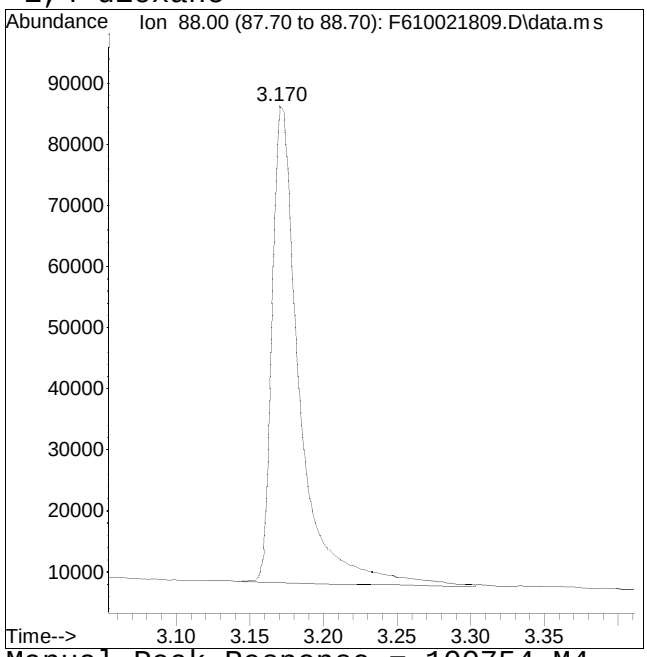
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F610021809.D
Date Inj'd : 10/2/2018 6:45 pm
Sample : CQ610021801

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:PS
Instrument : GCMS6
Quant Date : 10/3/2018 12:12 pm

Compound #2: 1,4-dioxane



Original Peak Response = 104137



Manual Peak Response = 100754 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: GCMS6	**Calibration Date**	: 11/06/18 10:05	
Lab File ID	: F611061802	**Init. Calib. Date(s)**	: 10/02/18	10/02/18
Sample No	: WG1176307-2	**Init. Calib. Times**	: 15:23	18:16
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	88	0
1,4-dioxane	1.803	1.947	-	-8	20	95	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
1,4-dioxane-d8	0.22	0.225	-	-2.3	20	81	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061802.D
Acq On : 6 Nov 2018 10:05 am
Operator : GCMS6:ps
Sample : WG1176307-2
Misc : WG1176307,,ICAL15108,MSAW38
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:57:21 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	88	0.00
2	1,4-dioxane	1.803	1.947	-8.0	95	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00
4 s	1,4-dioxane-d8	0.220	0.225	-2.3	81	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061802.D
Acq On : 6 Nov 2018 10:05 am
Operator : GCMS6:ps
Sample : WG1176307-2
Misc : WG1176307,,ICAL15108,MSAW38
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:57:21 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.455	64	24683	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.236	152	109863	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.455	64	24683	510.675	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.13%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.486	88	96114M4	1080.095	ng/mL	

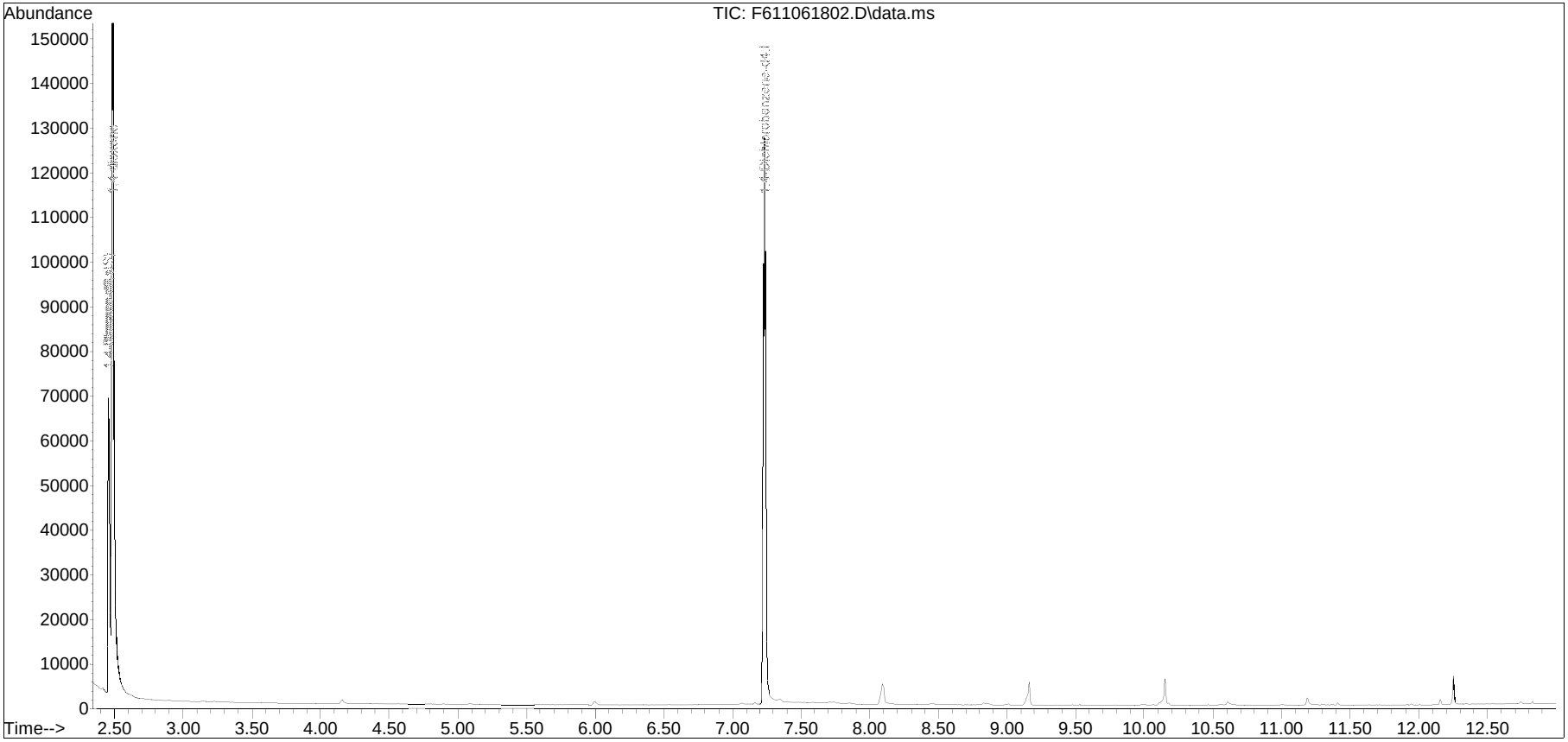
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061802.D
Acq On : 6 Nov 2018 10:05 am
Operator : GCMS6:ps
Sample : WG1176307-2
Misc : WG1176307,,ICAL15108,MSAW38
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:57:21 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

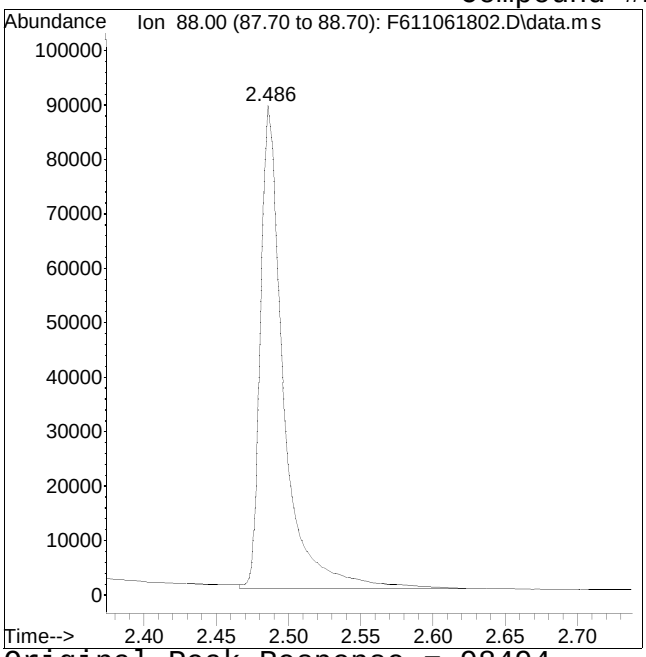


Manual Integration/Negative Proof Report

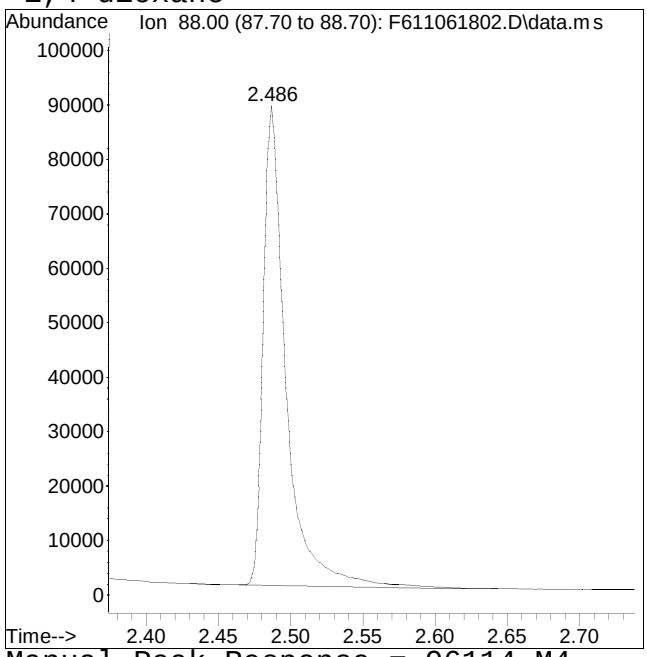
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061802.D
Date Inj'd : 11/6/2018 10:05 am
Sample : WG1176307-2

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/6/2018 10:57 am

Compound #2: 1,4-dioxane



Original Peak Response = 98494



Manual Peak Response = 96114 M4

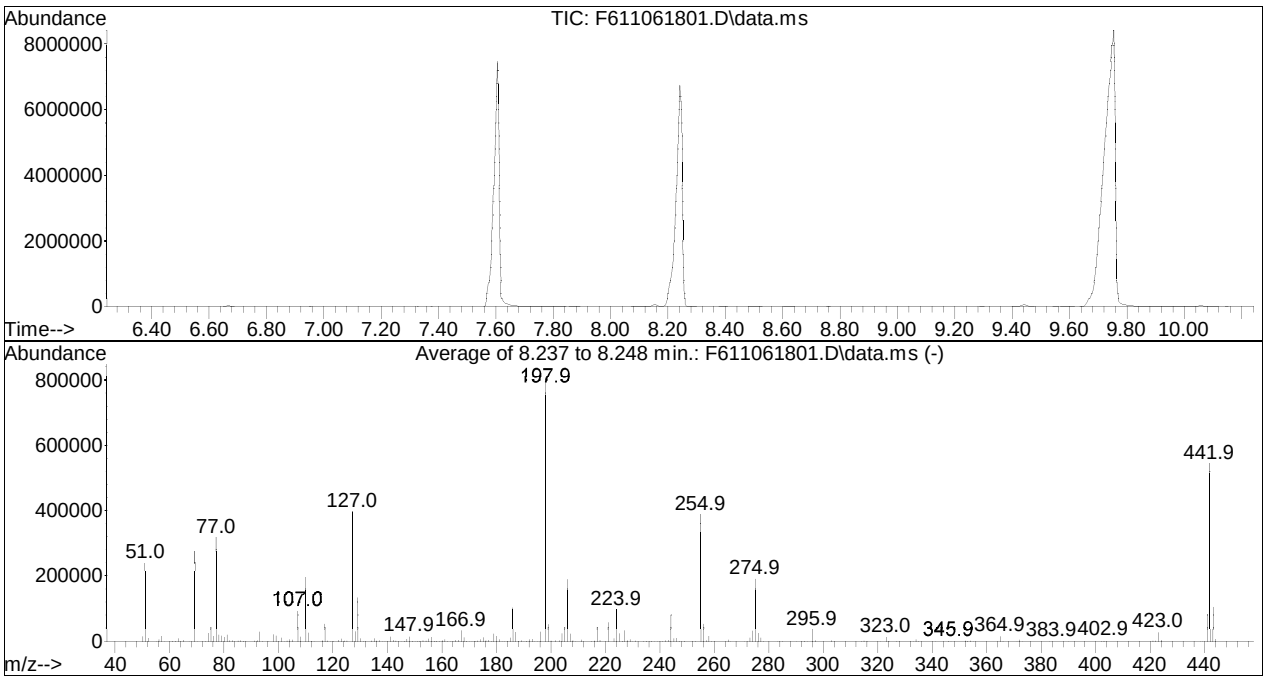
M4 = Poor automated baseline construction.

Semivolatiles Raw QC Data

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061801.D
Acq On : 6 Nov 2018 9:16 am
Operator : GCMS6:ps
Sample : WG1176307-1
Misc : WG1176307,,ICAL15108,MSAV74
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Tue Nov 06 10:56:24 2018



Spectrum Information: Average of 8.237 to 8.248 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.6	239023	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	1294	PASS
127	198	10	80	49.1	395865	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	806898	PASS
199	198	5	9	6.5	52093	PASS
275	198	10	60	23.6	190161	PASS
365	198	1	100	2.0	15774	PASS
441	442	0.01	24	15.4	83419	PASS
442	198	50	100	67.3	542928	PASS
443	442	15	24	19.3	104812	PASS

WG1163610
ICAL 15108
PS 10/3/18

Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: O:\Organics\DATA\GCMS6\2018\OCT\OCT02\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F610021801.D	DFTPPGCMS6.M	T610021801	wg1163610,,MSAV74	10/2/2018 2:34 pm
2	F610021802.D	14DIOXANEGCM	I610021801	wg1163610,,MSAV51	10/2/2018 3:23 pm
3	F610021803.D	14DIOXANEGCM	I610021802	wg1163610,,MSAV52	10/2/2018 3:52 pm
4	F610021804.D	14DIOXANEGCM	I610021803	wg1163610,,MSAV53	10/2/2018 4:21 pm
5	F610021805.D	14DIOXANEGCM	I610021804	wg1163610,,MSAV54	10/2/2018 4:49 pm
6	F610021806.D	14DIOXANEGCM	I610021805	wg1163610,,MSAW38	10/2/2018 5:19 pm
7	F610021807.D	14DIOXANEGCM	I610021806	wg1163610,,MSAV56	10/2/2018 5:47 pm
8	F610021808.D	14DIOXANEGCM	I610021807	wg1163610,,MSAV50	10/2/2018 6:16 pm
9	F610021809.D	14DIOXANEGCM	CQ610021801	wg1163610,,MSAW62	10/2/2018 6:45 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061803.D
Acq On : 6 Nov 2018 10:36 am
Operator : GCMS6:ps
Sample : wg1176130-1
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 09:25:12 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.428	64	6524	500.000	ng/mL	-0.03
3) 1,4-Dichlorobenzene-d4	7.236	152	96460	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.428	64	6524	153.732	ng/mL	-0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 30.75%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

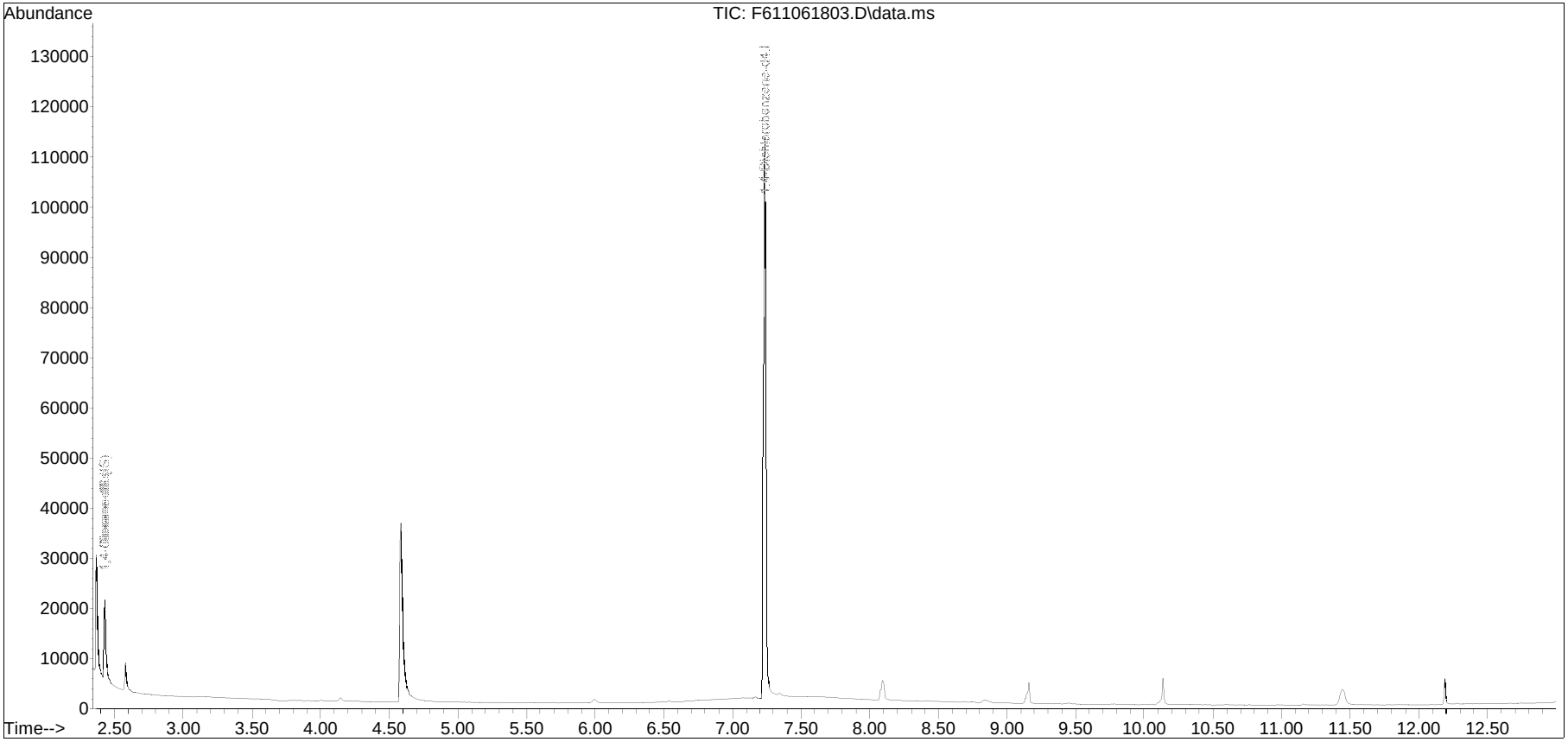
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061803.D
Acq On : 6 Nov 2018 10:36 am
Operator : GCMS6:ps
Sample : wg1176130-1
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 07 09:25:12 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2018Q	Method	: 14DIOX1002GCMS6.M
Data File	: F611061803.D	Operator	: GCMS6:ps
Date Inj'd	: 11/6/2018 10:36 am	Instrument	: GCMS6
Sample	: wg1176130-1	Quant Date	: 11/7/2018 9:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061804.D
Acq On : 6 Nov 2018 11:06 am
Operator : GCMS6:ps
Sample : wg1176130-2
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 14:45:07 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.494	64	6996	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.233	152	96771M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.494	64	6996	164.325	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 32.87%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.527	88	13501M4	535.290	ng/mL	

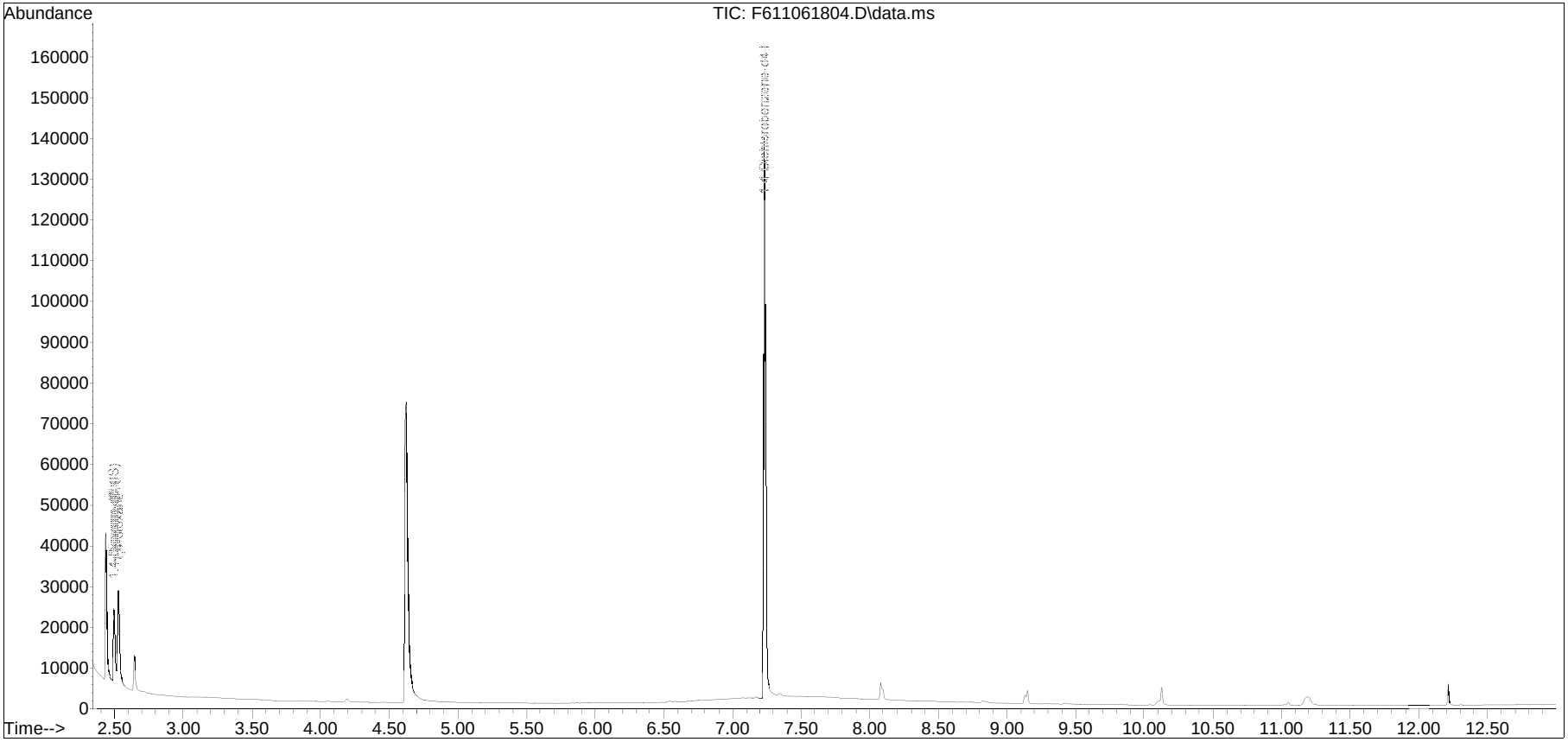
(#) = qualifier out of range (m) = manual integration (+) = signals summed

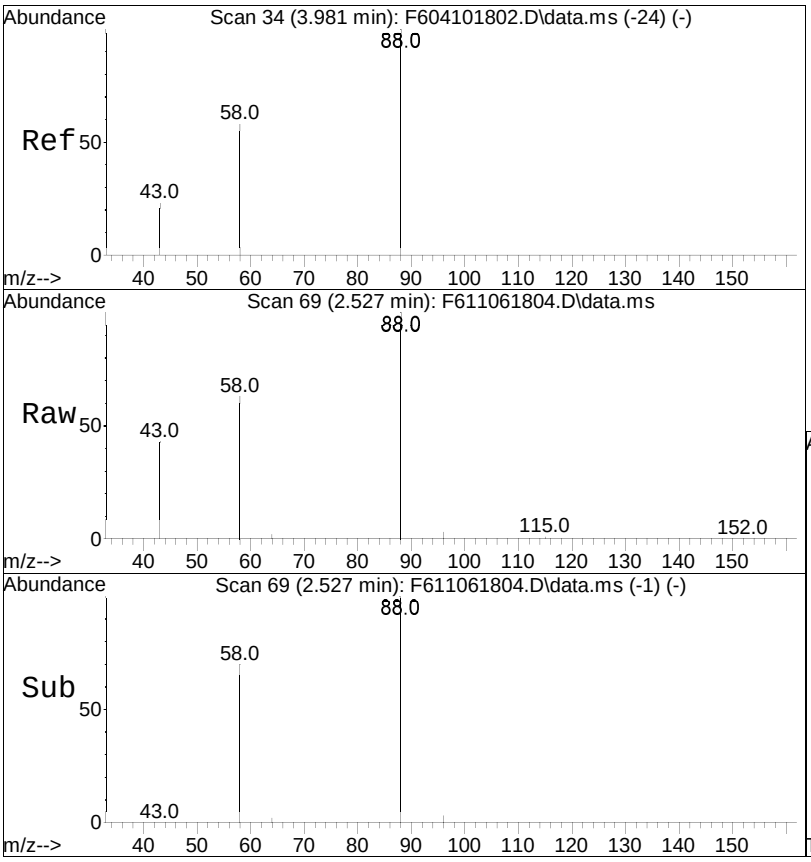
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061804.D
Acq On : 6 Nov 2018 11:06 am
Operator : GCMS6:ps
Sample : wg1176130-2
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 14:45:07 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

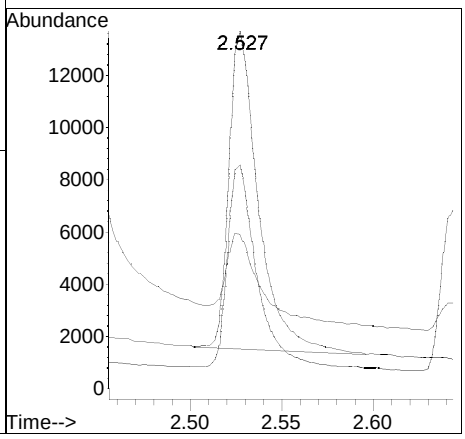




#2
1,4-dioxane
Concen: 535.29 ng/mL M4
RT: 2.527 min Scan# 69
Delta R.T. 0.041 min
Lab File: F611061804.D
Acq: 6 Nov 2018 11:06 am

Tgt Ion: 88 Resp: 13501

Ion	Ratio	Lower	Upper
88	100		
58	63.5	48.3	72.5
43	26.4	18.6	27.8

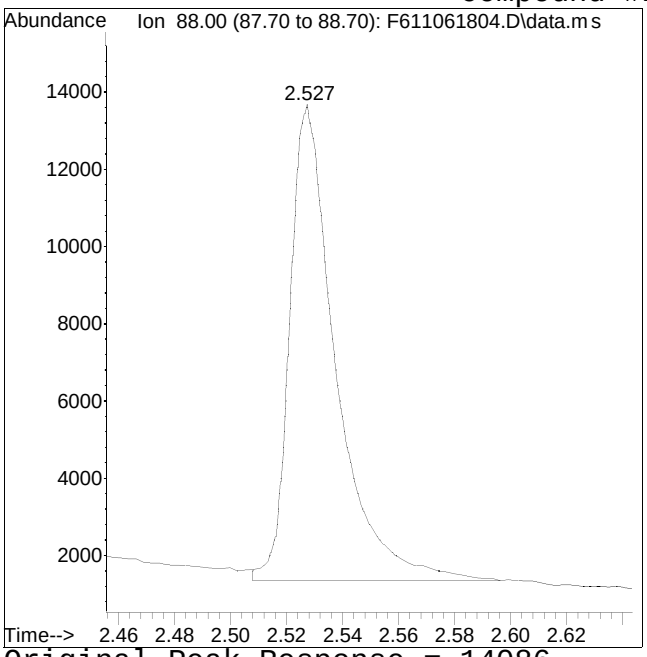


Manual Integration/Negative Proof Report

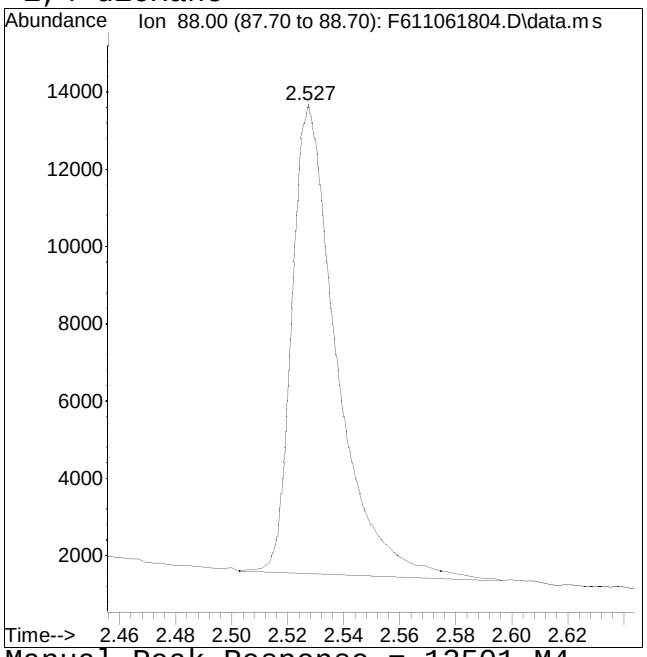
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061804.D
Date Inj'd : 11/6/2018 11:06 am
Sample : wg1176130-2

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 14086



Manual Peak Response = 13501 M4

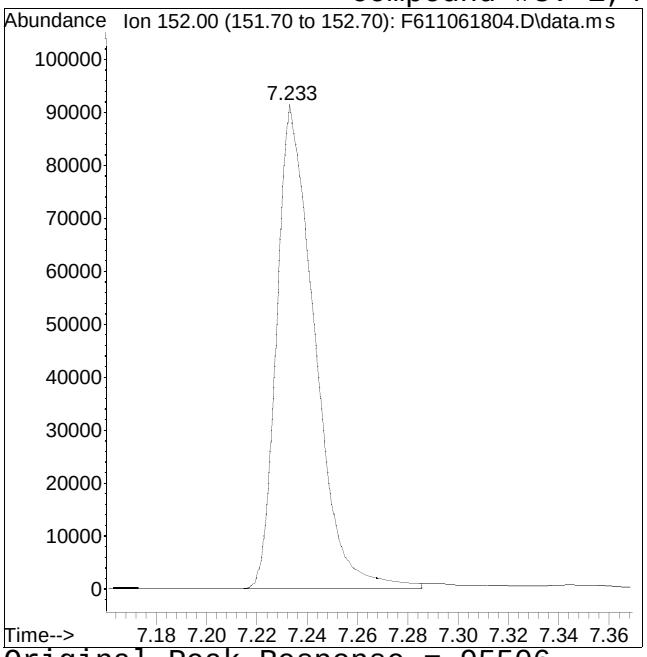
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

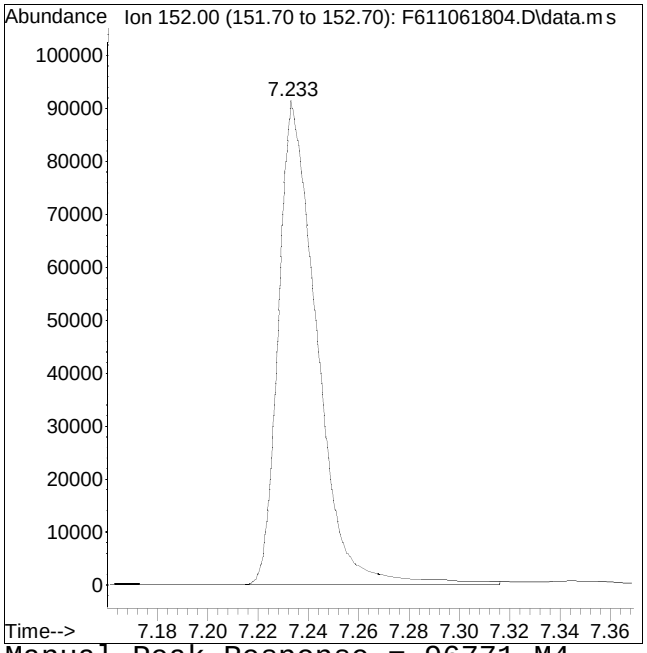
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061804.D
Date Inj'd : 11/6/2018 11:06 am
Sample : wg1176130-2

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 95506



Manual Peak Response = 96771 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061805.D
Acq On : 6 Nov 2018 11:36 am
Operator : GCMS6:ps
Sample : wg1176130-3
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 16:53:12 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.511	64	5154M4	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	7.230	152	101831	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.511	64	5148M4	114.910	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 22.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.541	88	9847M4	529.947	ng/mL	

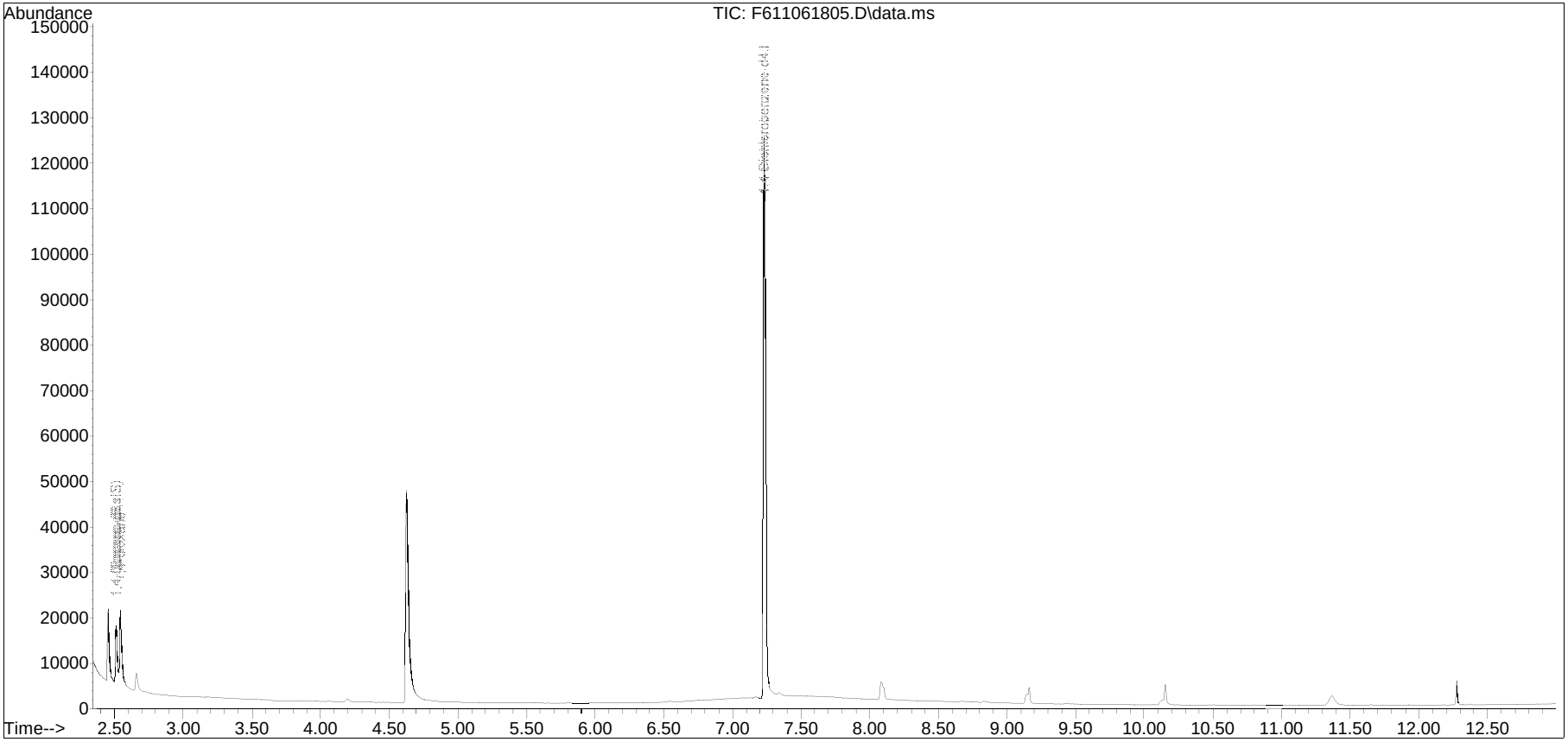
(#) = qualifier out of range (m) = manual integration (+) = signals summed

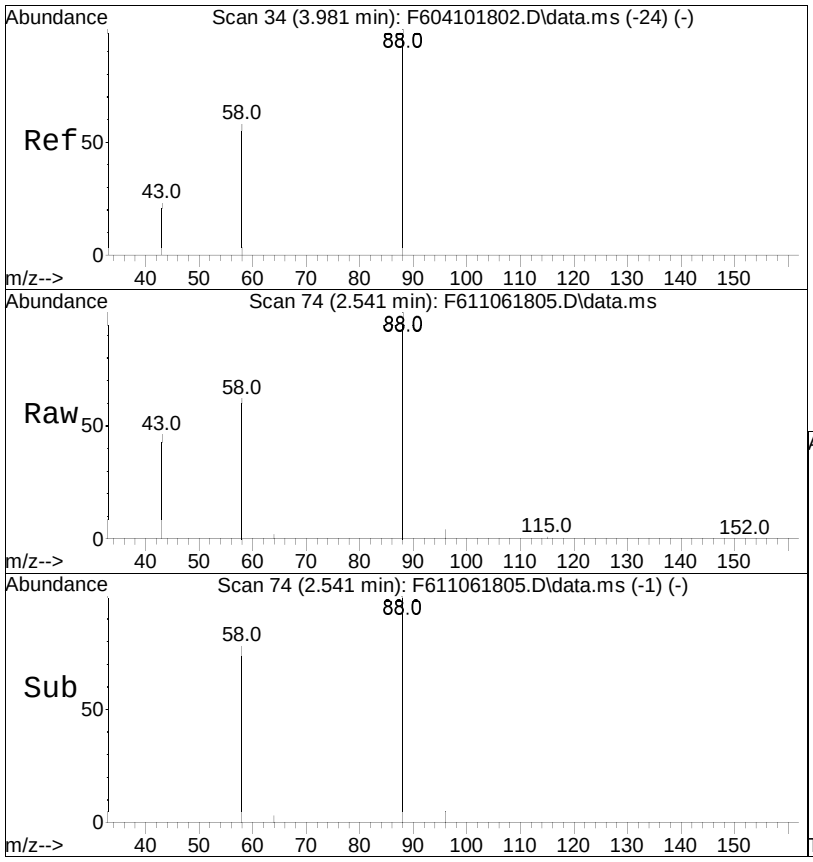
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061805.D
Acq On : 6 Nov 2018 11:36 am
Operator : GCMS6:ps
Sample : wg1176130-3
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 16:53:12 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

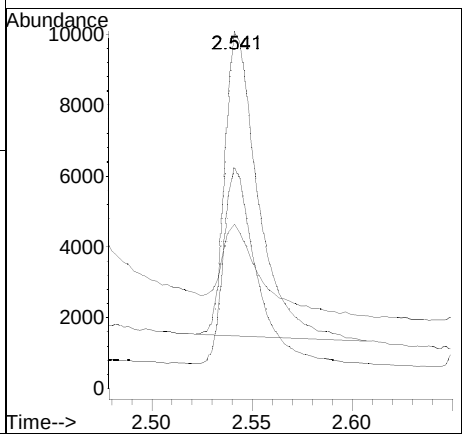




#2
1,4-dioxane
Concen: 529.95 ng/mL M4
RT: 2.541 min Scan# 74
Delta R.T. 0.055 min
Lab File: F611061805.D
Acq: 6 Nov 2018 11:36 am

Tgt Ion: 88 Resp: 9847

Ion	Ratio	Lower	Upper
88	100		
58	63.4	48.3	72.5
43	22.8	18.6	27.8

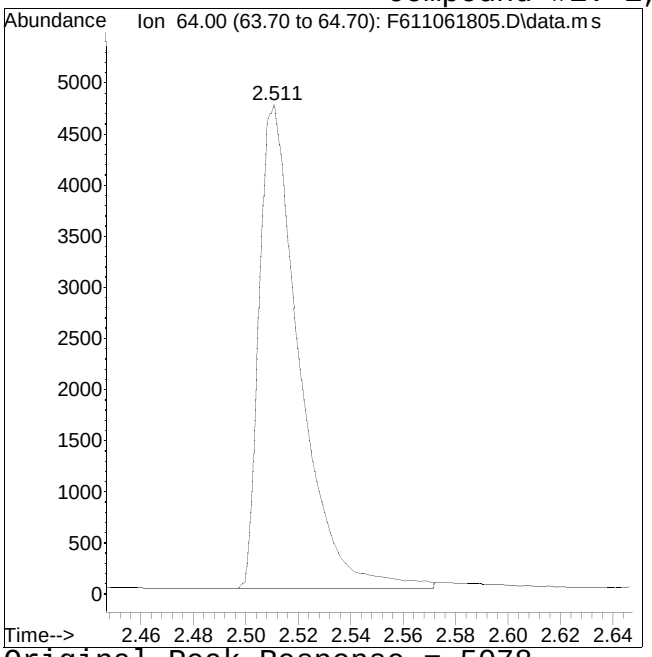


Manual Integration/Negative Proof Report

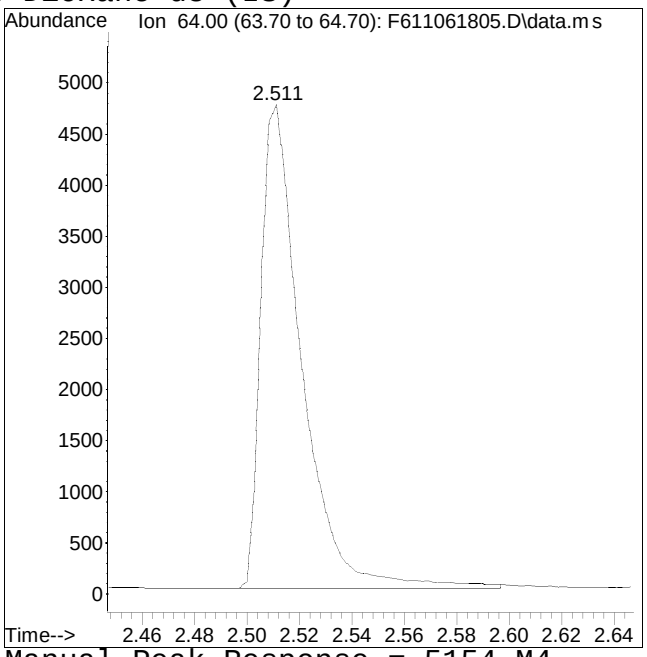
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061805.D
Date Inj'd : 11/6/2018 11:36 am
Sample : wg1176130-3

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 5078



Manual Peak Response = 5154 M4

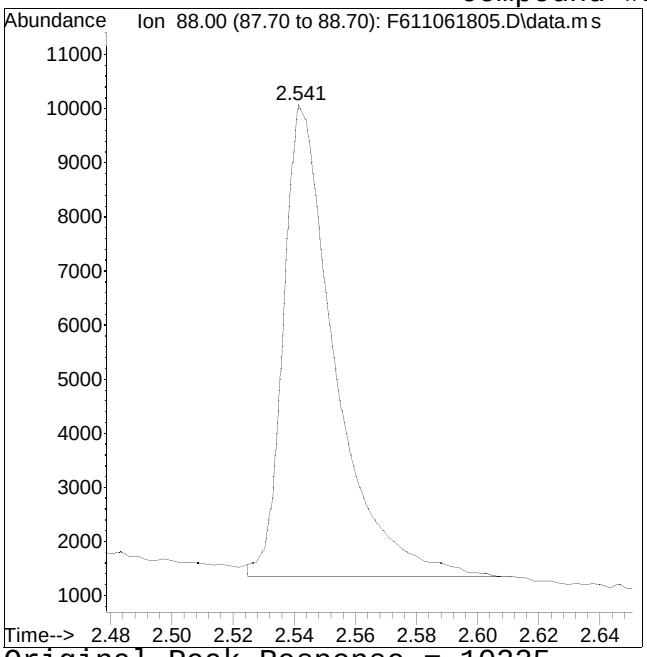
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

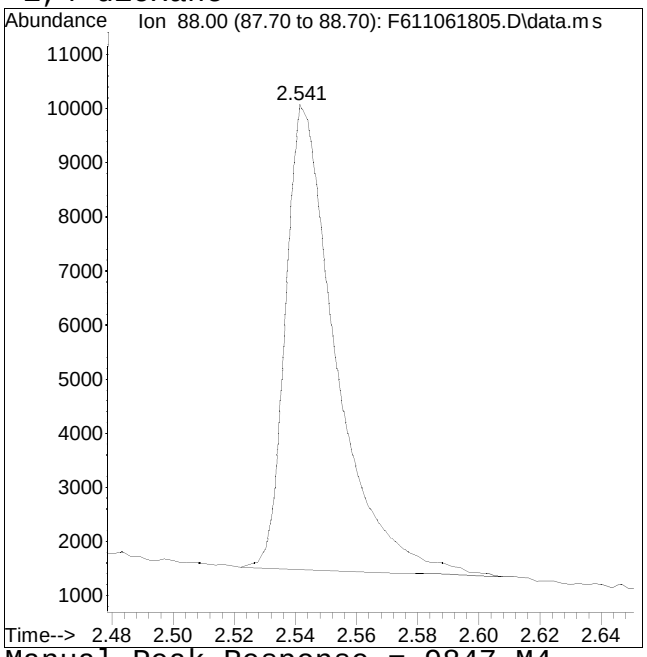
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061805.D
Date Inj'd : 11/6/2018 11:36 am
Sample : wg1176130-3

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 10225



Manual Peak Response = 9847 M4

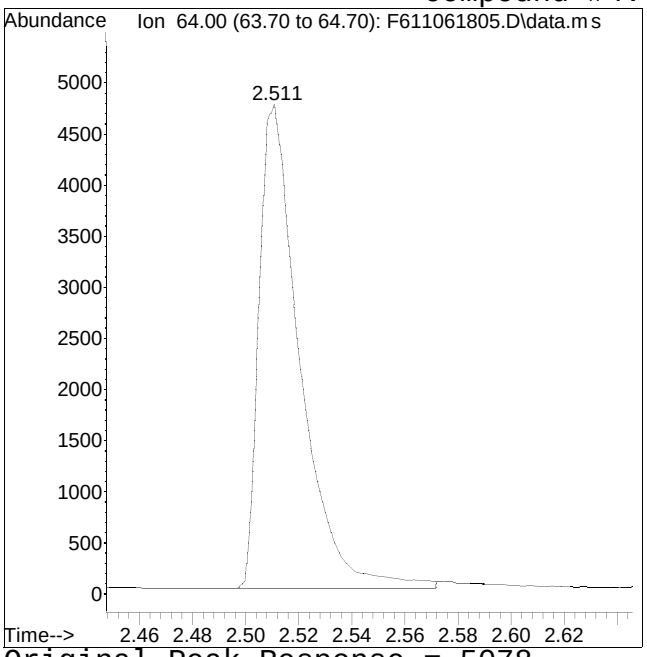
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

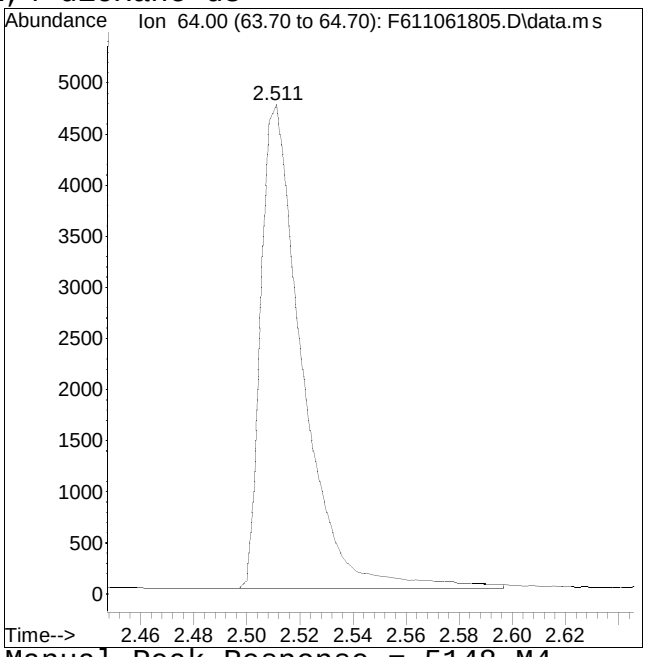
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061805.D
Date Inj'd : 11/6/2018 11:36 am
Sample : wg1176130-3

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 5078



Manual Peak Response = 5148 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061812.D
Acq On : 6 Nov 2018 3:00 pm
Operator : GCMS6:ps
Sample : wg1176130-4
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 07 16:58:08 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.508	64	4723M4	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.233	152	98183	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.508	64	4712M4	109.085	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.541	88	8996M4	528.329	ng/mL	

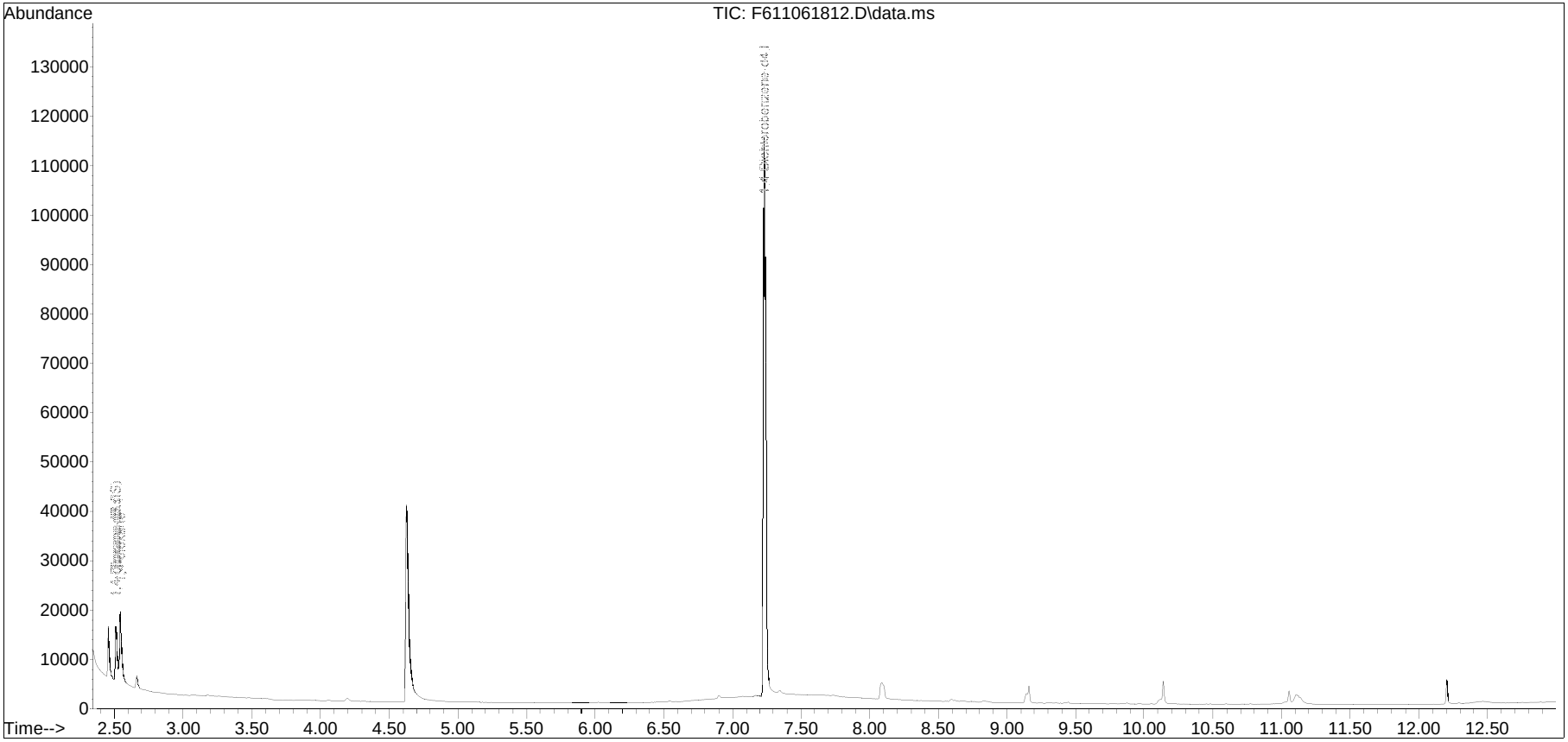
(#) = qualifier out of range (m) = manual integration (+) = signals summed

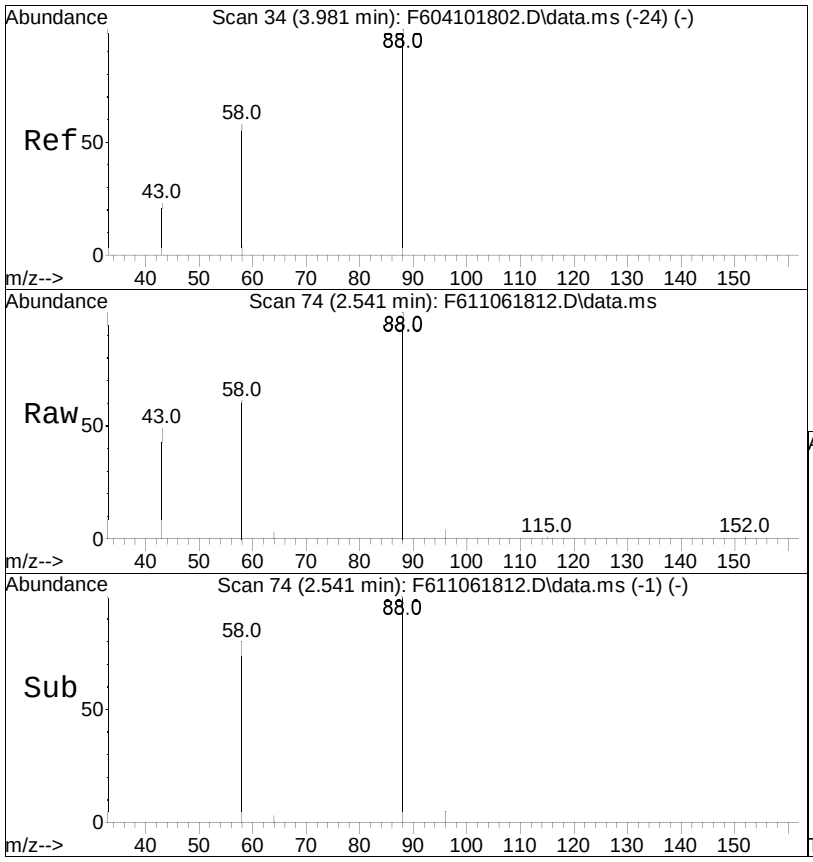
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061812.D
Acq On : 6 Nov 2018 3:00 pm
Operator : GCMS6:ps
Sample : wg1176130-4
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 07 16:58:08 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

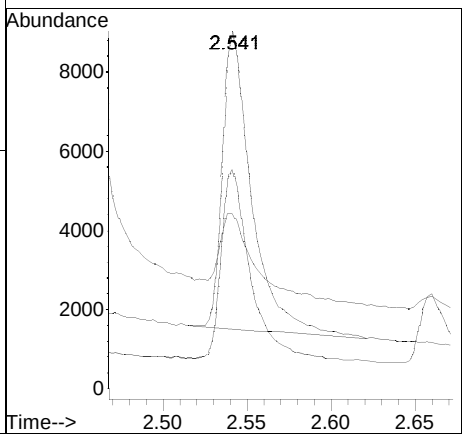




#2
1,4-dioxane
Concen: 528.33 ng/mL M4
RT: 2.541 min Scan# 74
Delta R.T. 0.055 min
Lab File: F611061812.D
Acq: 6 Nov 2018 3:00 pm

Tgt Ion: 88 Resp: 8996

Ion	Ratio	Lower	Upper
88	100		
58	64.9	48.3	72.5
43	23.9	18.6	27.8

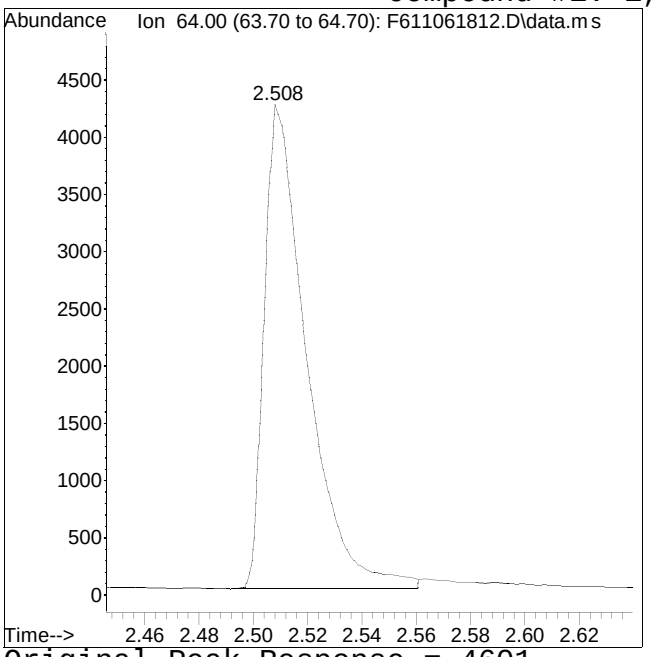


Manual Integration/Negative Proof Report

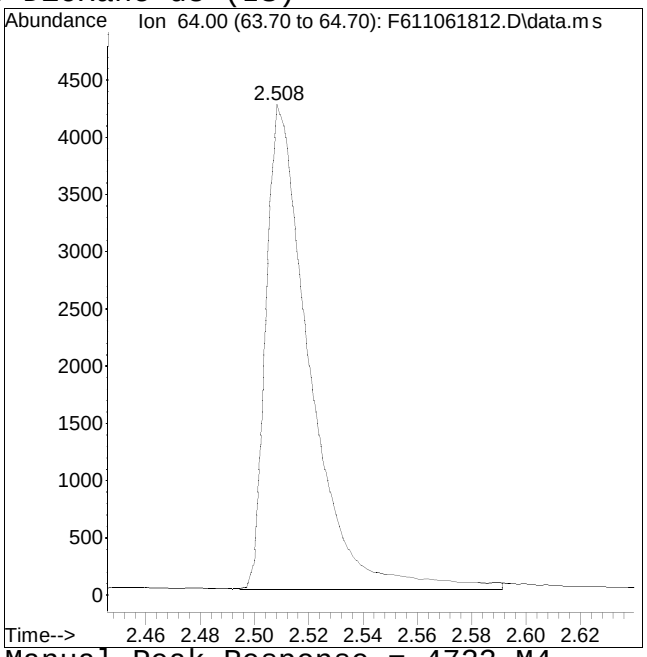
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061812.D
Date Inj'd : 11/6/2018 3:00 pm
Sample : wg1176130-4

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 4601



Manual Peak Response = 4723 M4

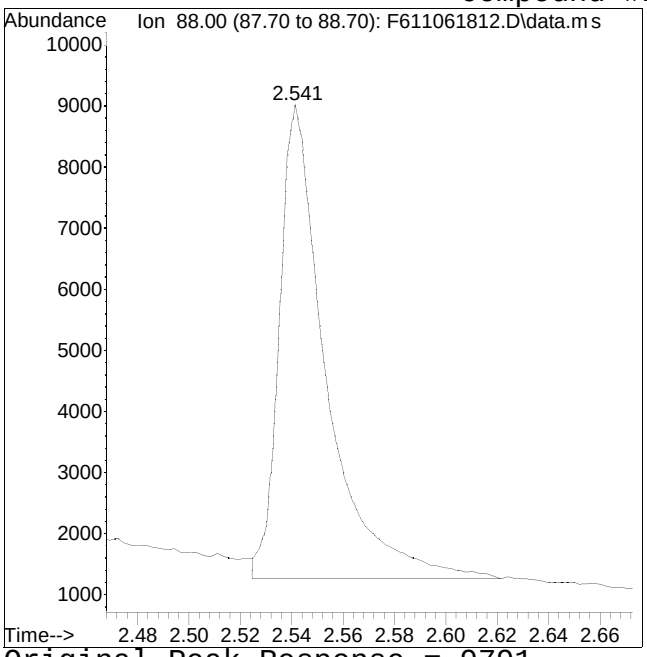
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

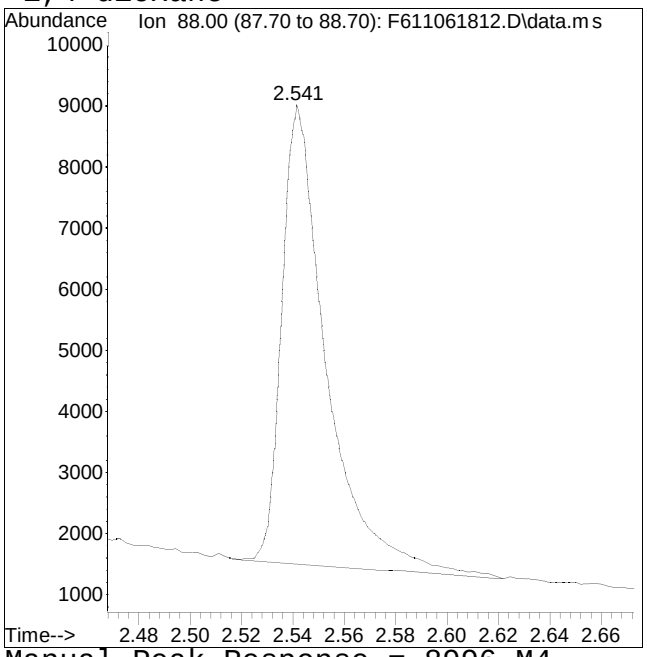
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061812.D
Date Inj'd : 11/6/2018 3:00 pm
Sample : wg1176130-4

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 9791



Manual Peak Response = 8996 M4

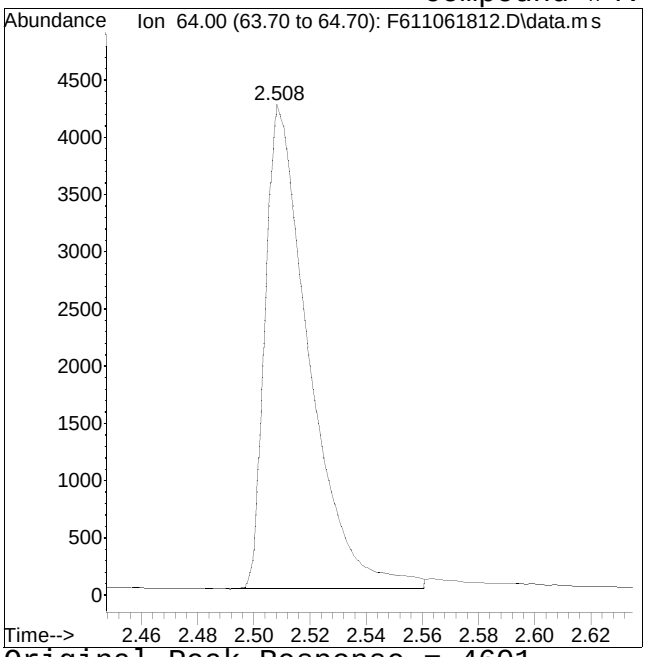
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

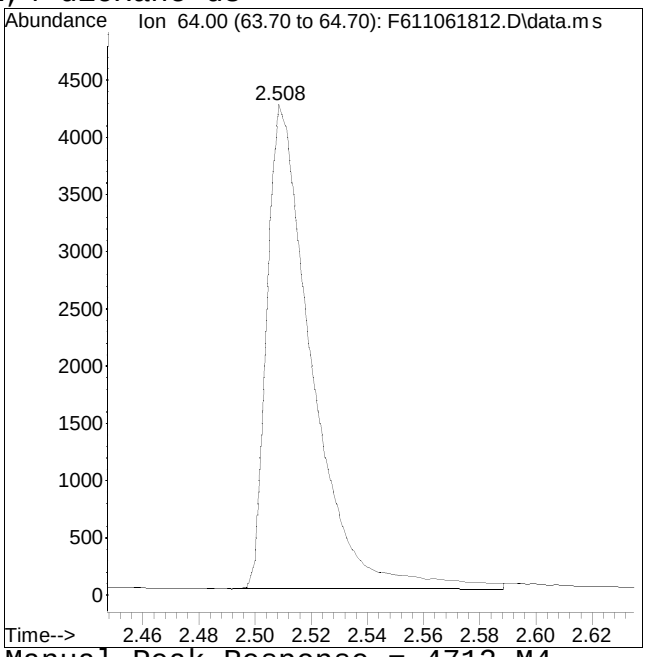
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061812.D
Date Inj'd : 11/6/2018 3:00 pm
Sample : wg1176130-4

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 4601



Manual Peak Response = 4712 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061817.D
Acq On : 6 Nov 2018 5:27 pm
Operator : GCMS6:ps
Sample : wg1176130-6
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 07 17:04:41 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.541	64	4041M4	500.000	ng/mL	0.09
3) 1,4-Dichlorobenzene-d4	7.233	152	106972	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.541	64	4094M4	86.991	ng/mL	0.09
Spiked Amount 500.000	Range 15 - 115		Recovery = 17.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.572	88	7681M4	527.232	ng/mL	

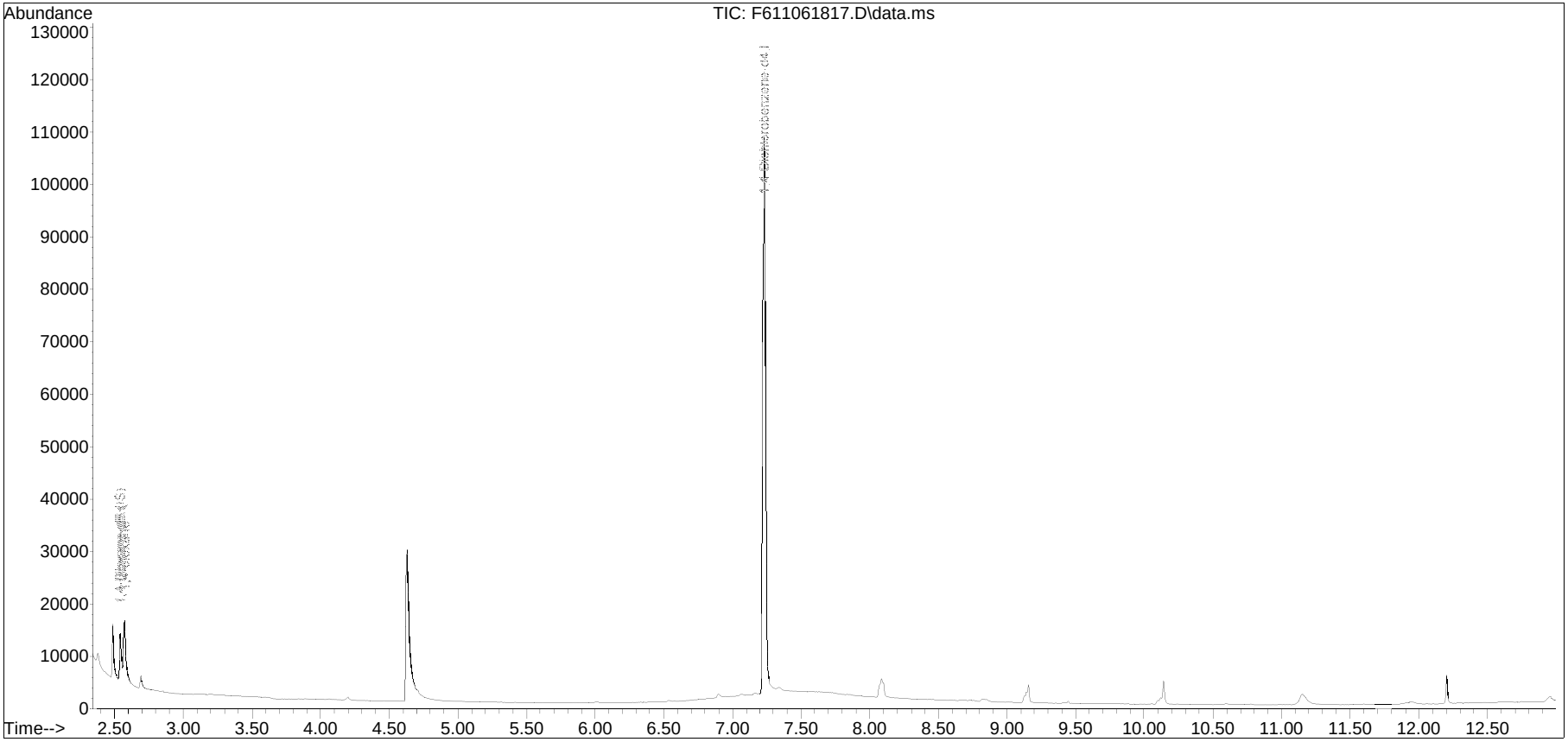
(#) = qualifier out of range (m) = manual integration (+) = signals summed

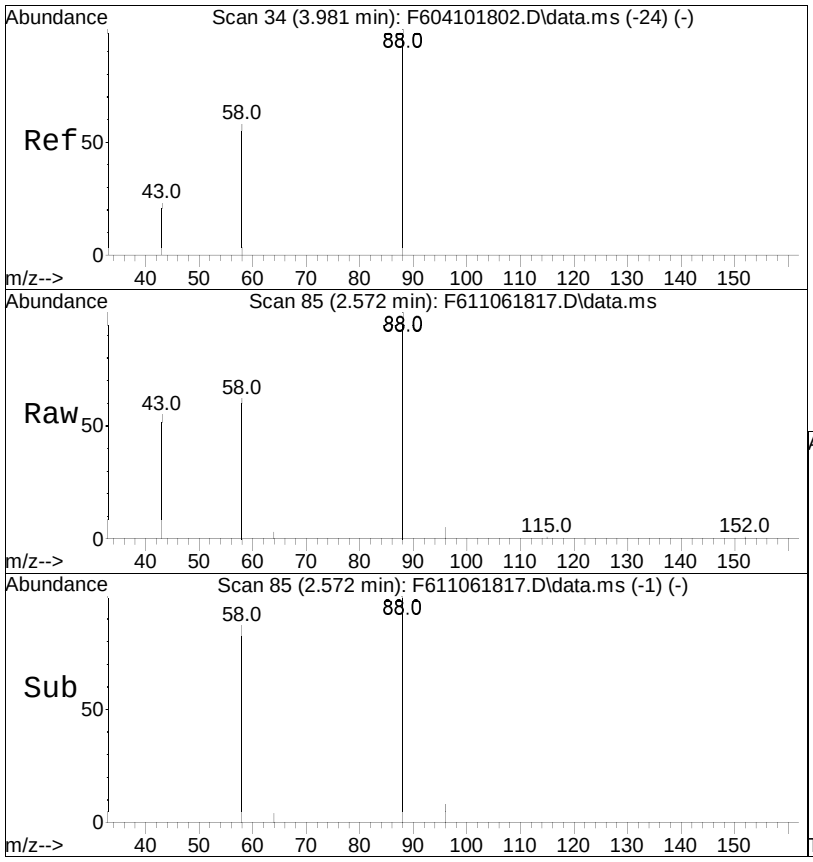
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061817.D
Acq On : 6 Nov 2018 5:27 pm
Operator : GCMS6:ps
Sample : wg1176130-6
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 07 17:04:41 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

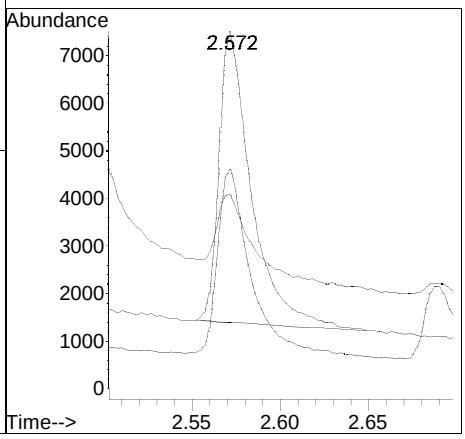




#2
1,4-dioxane
Concen: 527.23 ng/mL M4
RT: 2.572 min Scan# 85
Delta R.T. 0.086 min
Lab File: F611061817.D
Acq: 6 Nov 2018 5:27 pm

Tgt Ion: 88 Resp: 7681

Ion	Ratio	Lower	Upper
88	100		
58	63.2	48.3	72.5
43	24.2	18.6	27.8

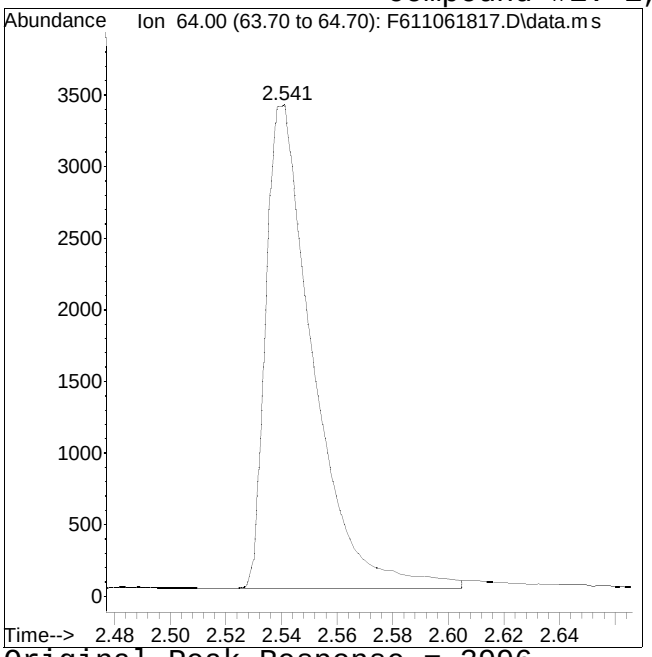


Manual Integration/Negative Proof Report

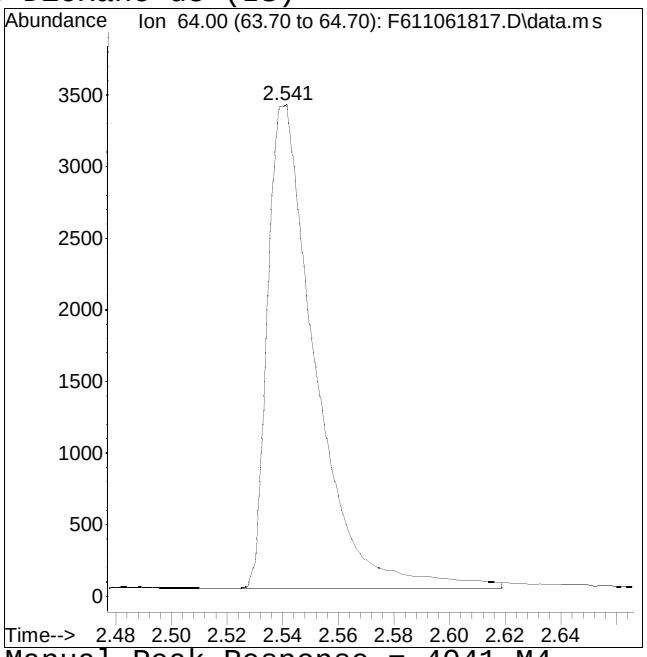
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061817.D
Date Inj'd : 11/6/2018 5:27 pm
Sample : wg1176130-6

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 3996



Manual Peak Response = 4041 M4

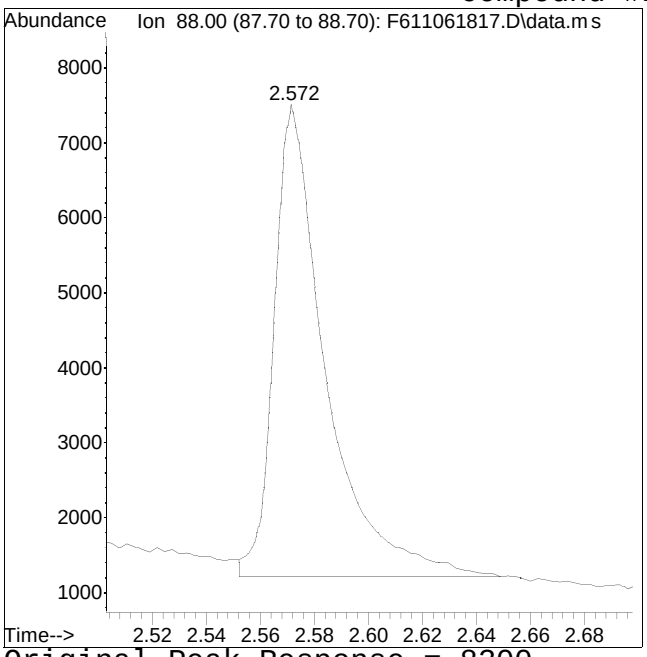
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

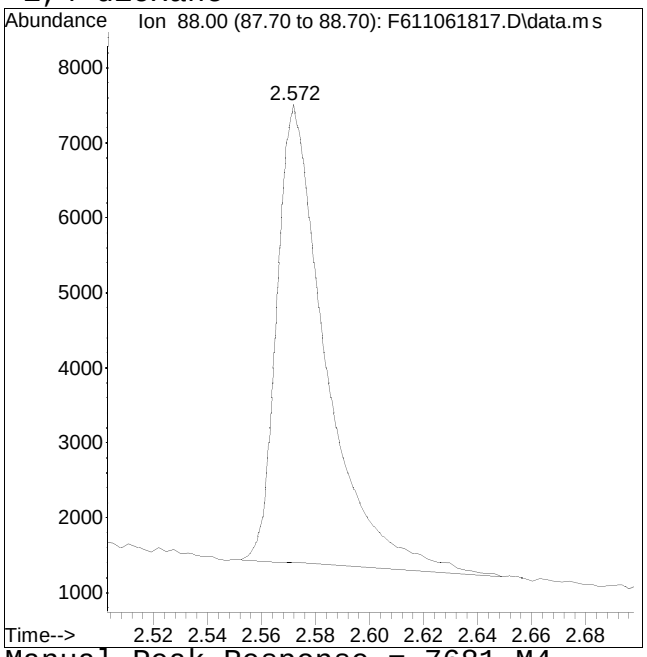
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061817.D
Date Inj'd : 11/6/2018 5:27 pm
Sample : wg1176130-6

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 8300



Manual Peak Response = 7681 M4

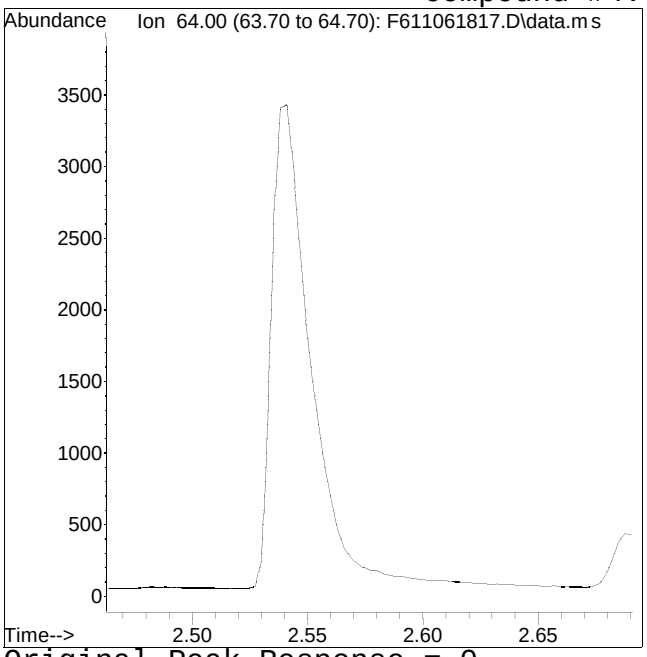
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

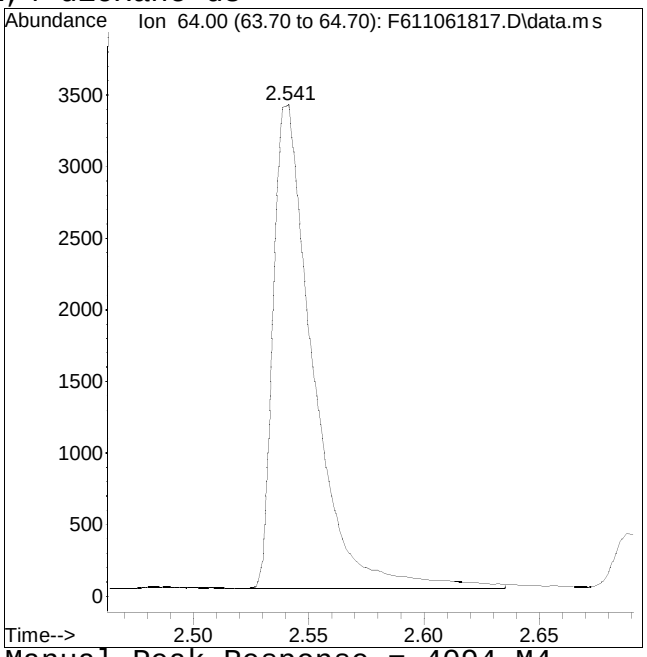
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061817.D
Date Inj'd : 11/6/2018 5:27 pm
Sample : wg1176130-6

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 0



Manual Peak Response = 4094 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061813.D
Acq On : 6 Nov 2018 3:28 pm
Operator : GCMS6:ps
Sample : wg1176130-5
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 07 17:00:27 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.522	64	4464M4	500.000	ng/mL	0.07
3) 1,4-Dichlorobenzene-d4	7.230	152	101834	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.522	64	4490M4	100.219	ng/mL	0.07
Spiked Amount 500.000	Range 15 - 115		Recovery = 20.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.555	88	8535M4	530.338	ng/mL	

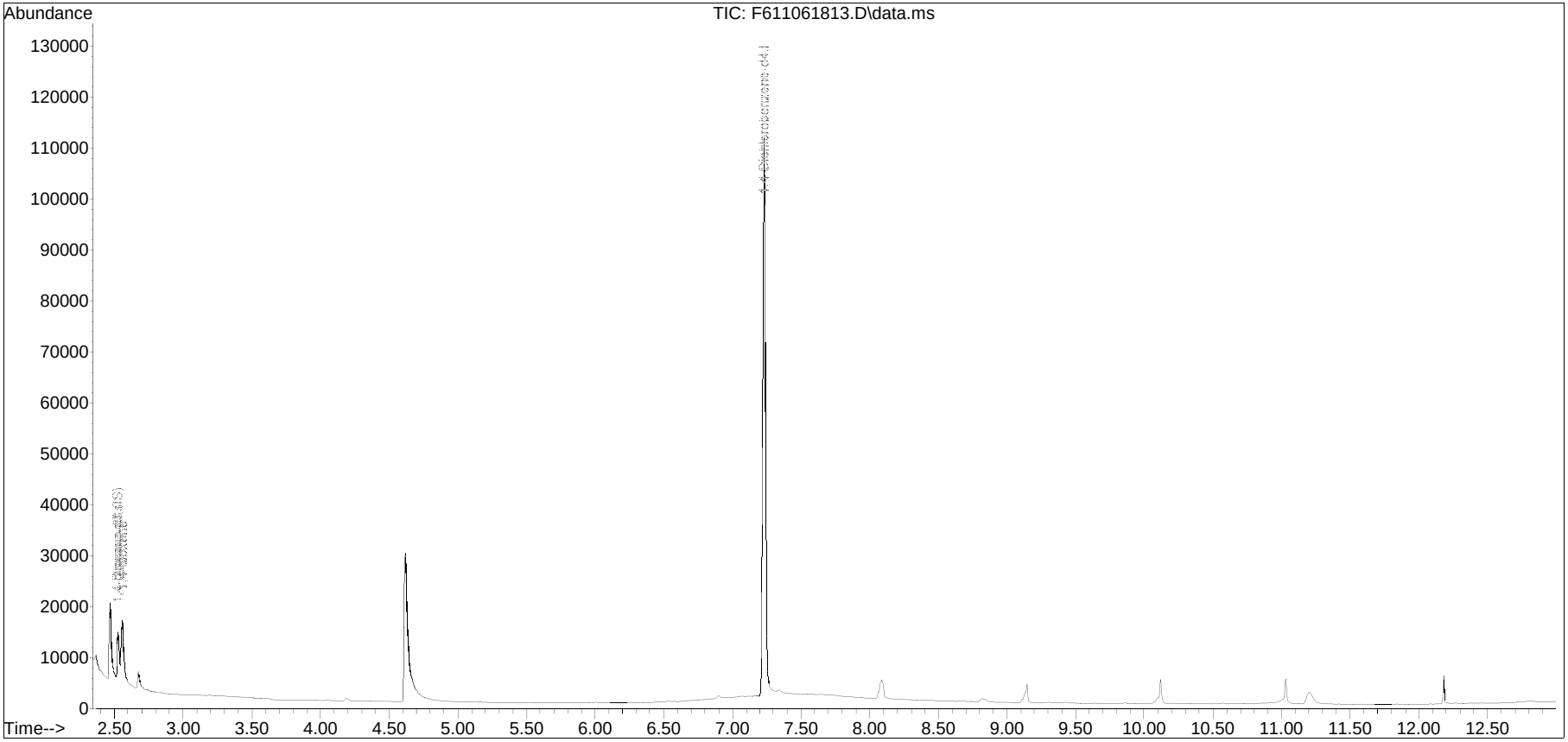
(#) = qualifier out of range (m) = manual integration (+) = signals summed

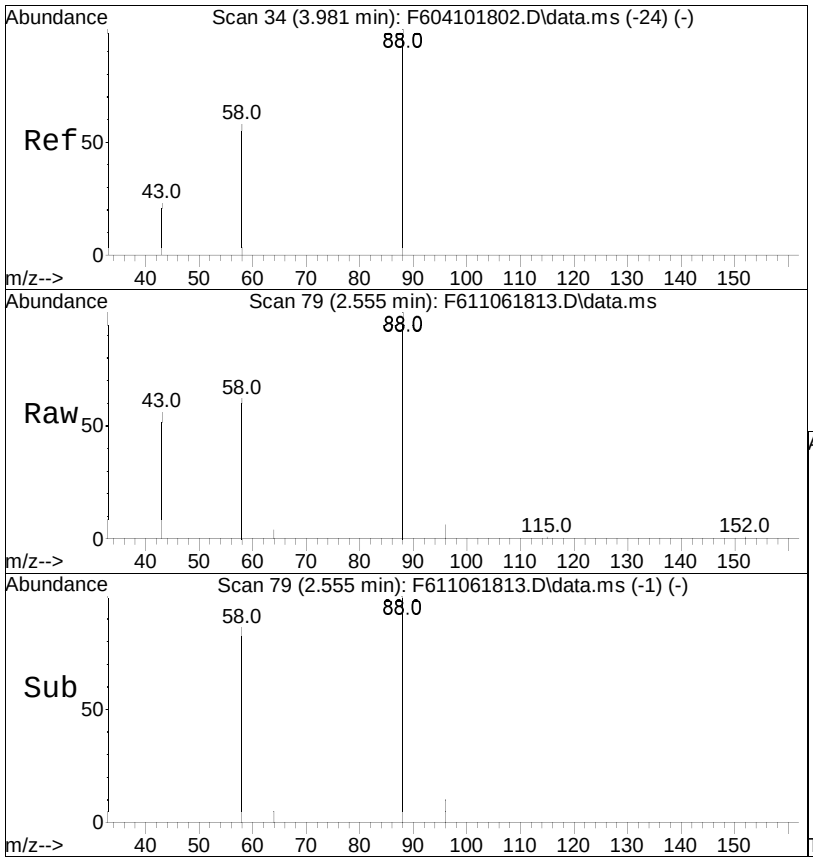
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061813.D
Acq On : 6 Nov 2018 3:28 pm
Operator : GCMS6:ps
Sample : wg1176130-5
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 07 17:00:27 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

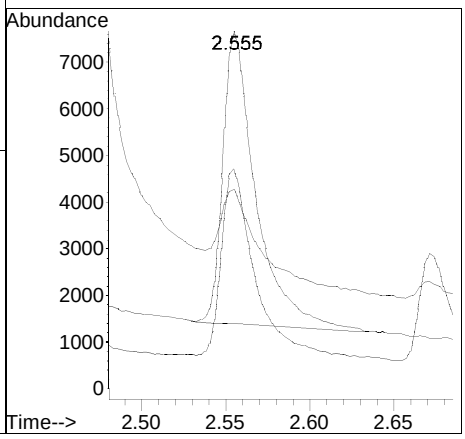




#2
1,4-dioxane
Concen: 530.34 ng/mL M4
RT: 2.555 min Scan# 79
Delta R.T. 0.069 min
Lab File: F611061813.D
Acq: 6 Nov 2018 3:28 pm

Tgt Ion: 88 Resp: 8535

Ion	Ratio	Lower	Upper
88	100		
58	62.9	48.3	72.5
43	21.2	18.6	27.8

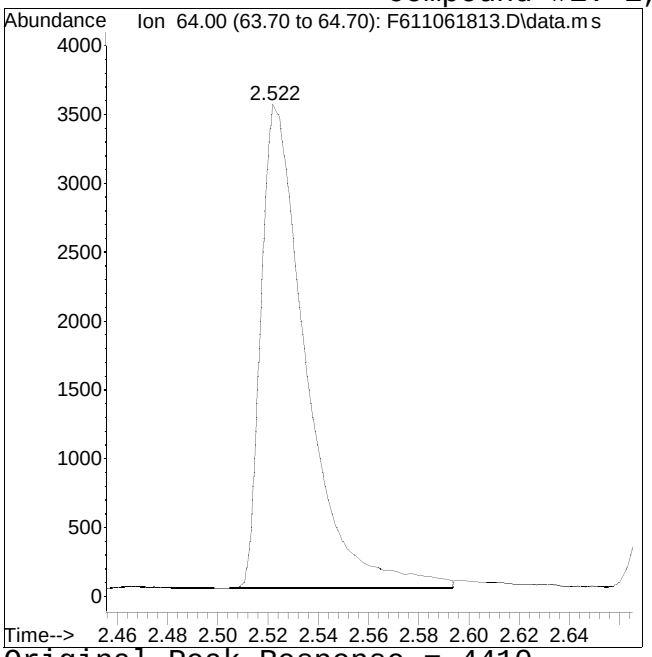


Manual Integration/Negative Proof Report

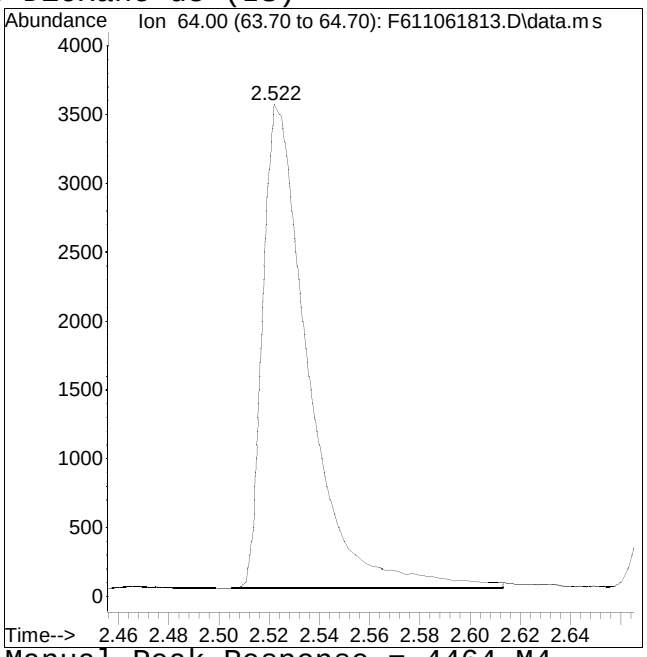
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061813.D
Date Inj'd : 11/6/2018 3:28 pm
Sample : wg1176130-5

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 4410



Manual Peak Response = 4464 M4

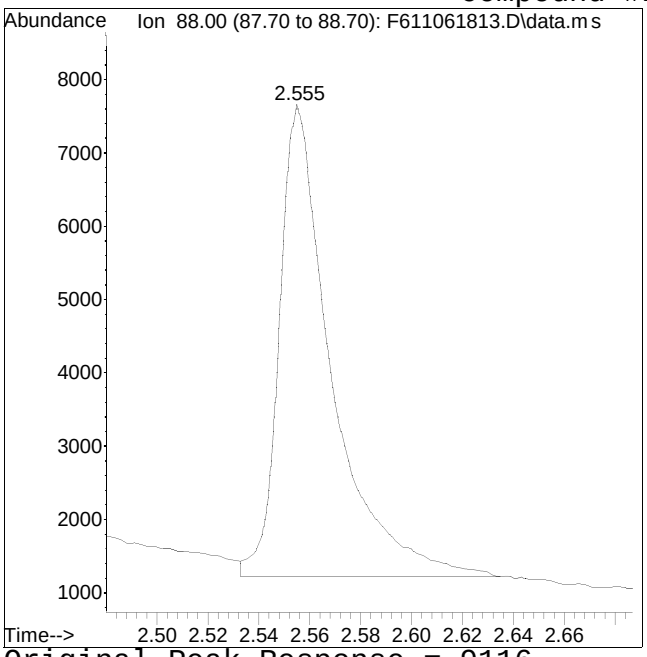
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

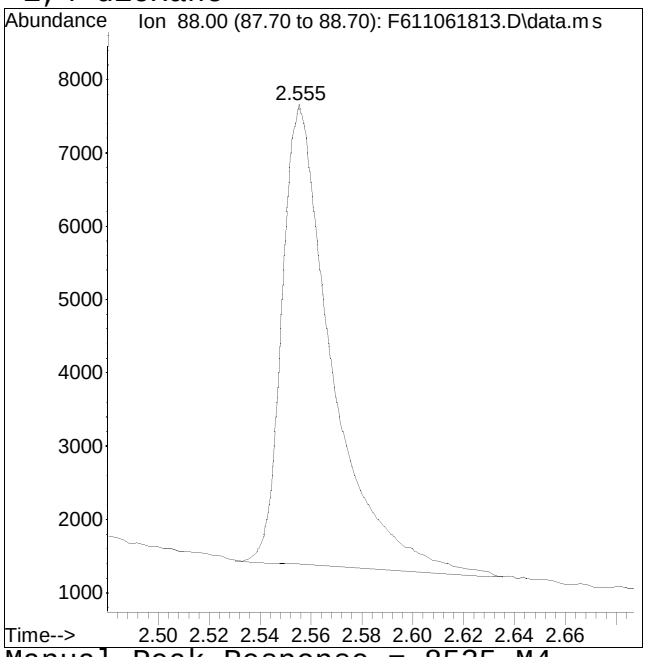
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061813.D
Date Inj'd : 11/6/2018 3:28 pm
Sample : wg1176130-5

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 9116



Manual Peak Response = 8535 M4

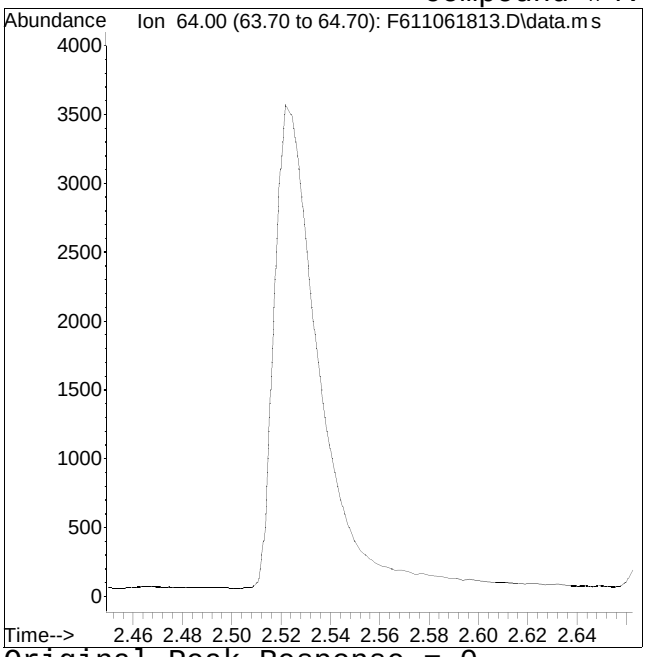
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

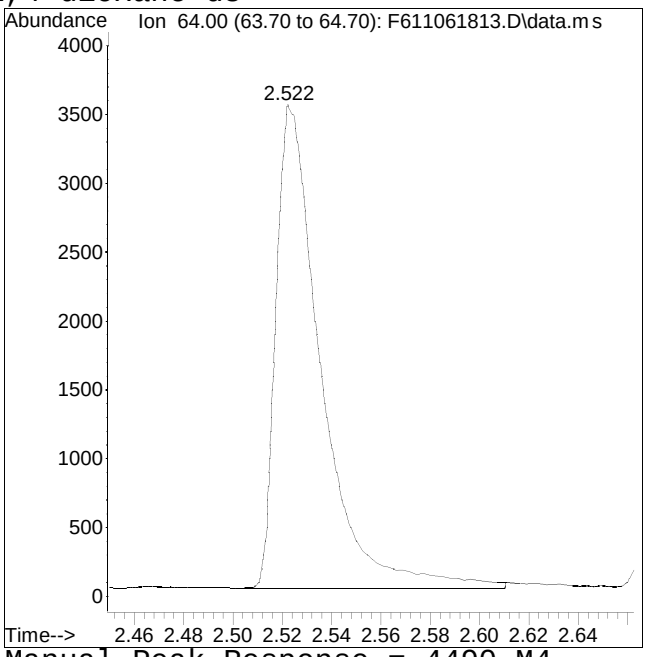
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061813.D
Date Inj'd : 11/6/2018 3:28 pm
Sample : wg1176130-5

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 0



Manual Peak Response = 4490 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061818.D
Acq On : 6 Nov 2018 6:00 pm
Operator : GCMS6:ps
Sample : wg1176130-7
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 07 17:05:35 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	2.483	64	4696	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.230	152	101762M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	2.483	64	4696	104.892	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 20.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.516	88	9106M4	537.864	ng/mL	

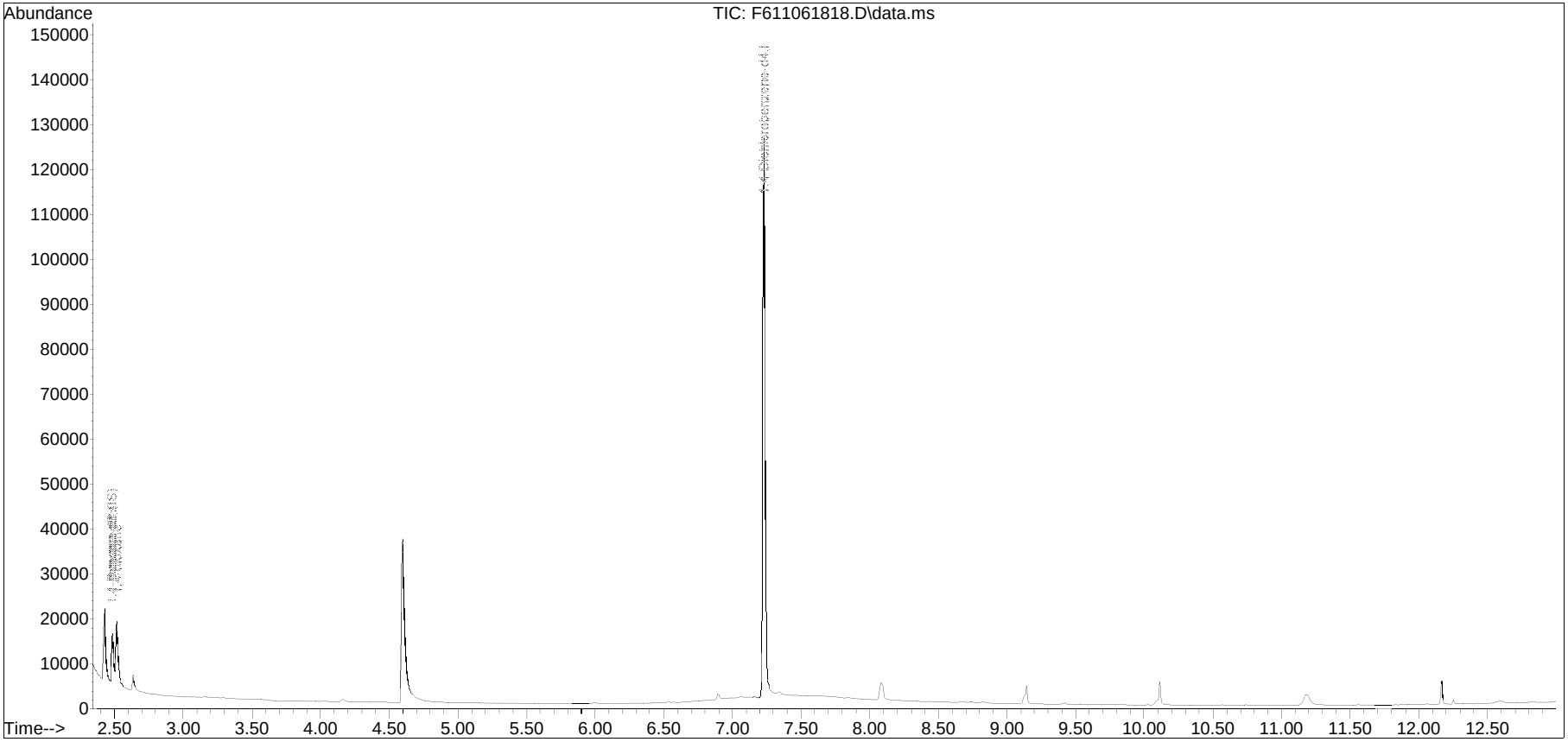
(#) = qualifier out of range (m) = manual integration (+) = signals summed

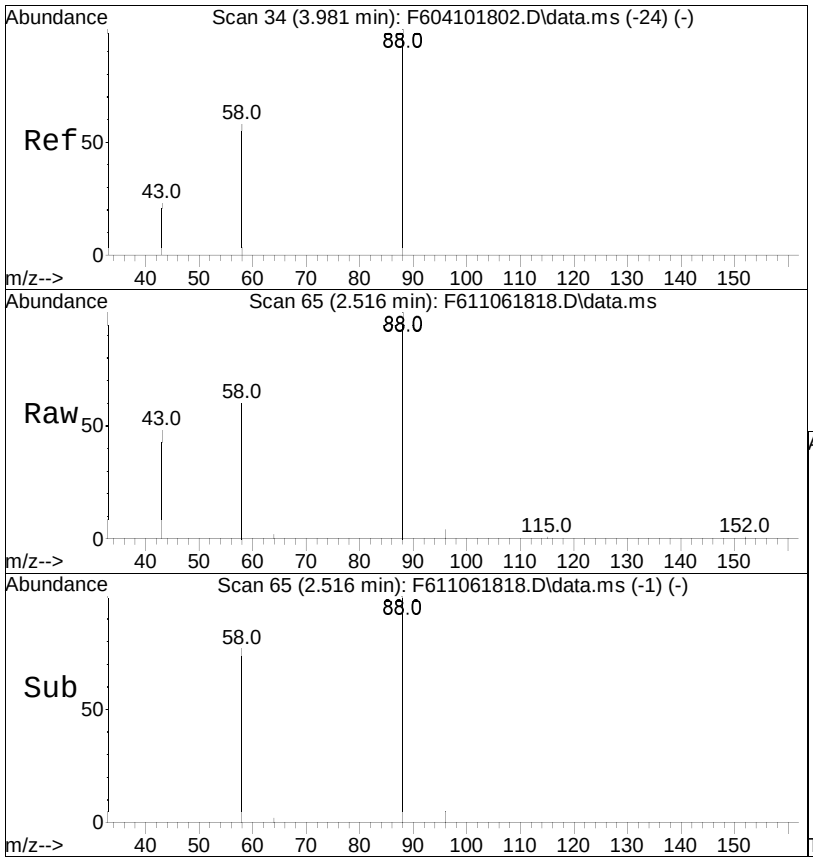
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\
Data File : F611061818.D
Acq On : 6 Nov 2018 6:00 pm
Operator : GCMS6:ps
Sample : wg1176130-7
Misc : wg1176307,wg1176130,ical15108
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 07 17:05:35 2018
Quant Method : O:\Organics\DATA\GCMS6\2018\NOV\NOV06\14DIOX1002GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Nov 06 10:56:24 2018
Response via : Initial Calibration

Sub List : Default - All compounds listed

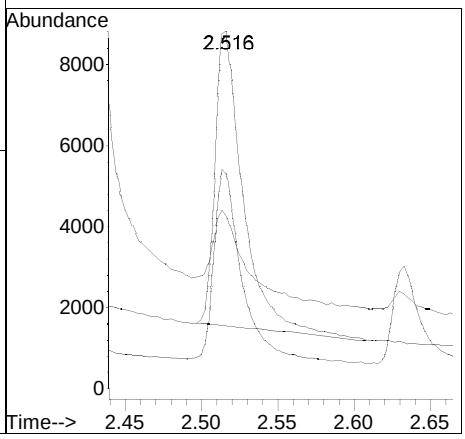




#2
1,4-dioxane
Concen: 537.86 ng/mL M4
RT: 2.516 min Scan# 65
Delta R.T. 0.030 min
Lab File: F611061818.D
Acq: 6 Nov 2018 6:00 pm

Tgt Ion: 88 Resp: 9106

Ion	Ratio	Lower	Upper
88	100		
58	65.4	48.3	72.5
43	20.4	18.6	27.8

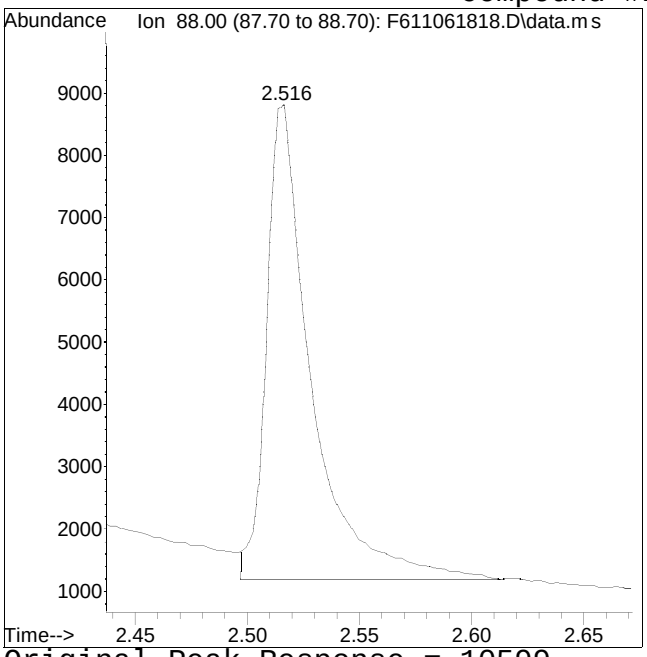


Manual Integration/Negative Proof Report

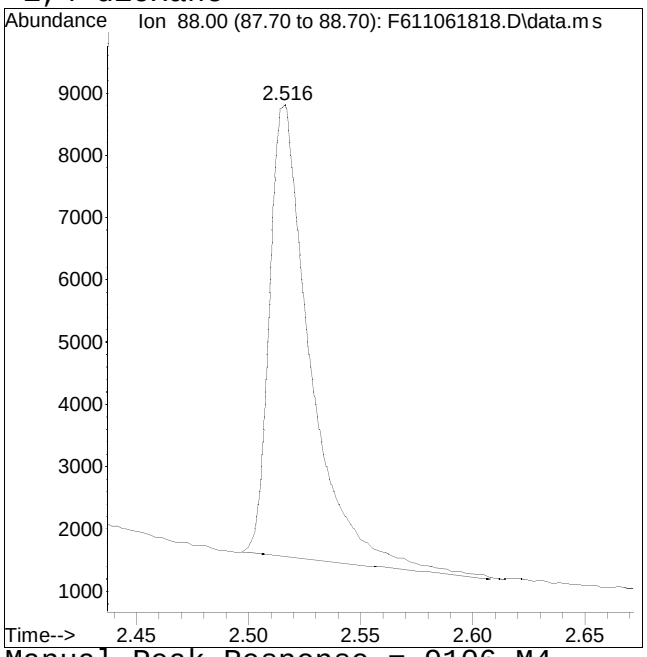
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061818.D
Date Inj'd : 11/6/2018 6:00 pm
Sample : wg1176130-7

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #2: 1,4-dioxane



Original Peak Response = 10599



Manual Peak Response = 9106 M4

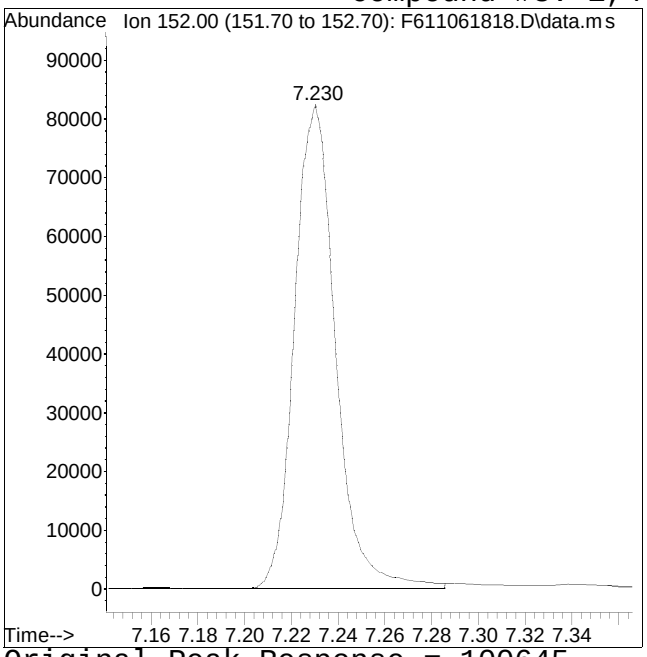
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

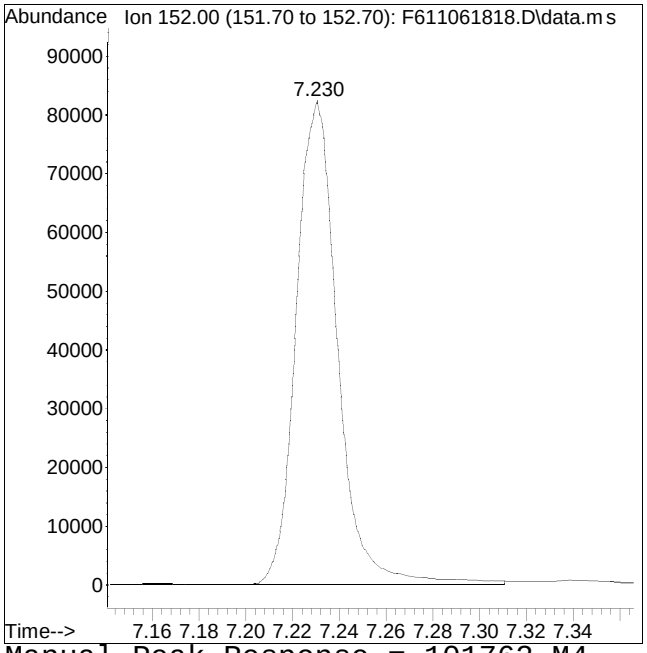
Data Path : O:\Organics\DATA\GCMS6\2018Q
Data File : F611061818.D
Date Inj'd : 11/6/2018 6:00 pm
Sample : wg1176130-7

Method : 14DIOX1002GCMS6.M
Operator : GCMS6:ps
Instrument : GCMS6
Quant Date : 11/7/2018 9:25 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 100645



Manual Peak Response = 101762 M4

M4 = Poor automated baseline construction.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 20 2018, 03:07 pm

Work Group: WG1176307 for Department: 32 GC/MS - Semivolatiles

Created: 06-NOV-18 Due: Operator: GCMS6 PS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1844263-02	MW-2	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U	1106	1108	S0	Amber-A.5
L1844318-01	MW-13S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-02	MW-15S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-03	MW-10S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-04	MW-39-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-05	MW-28S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-06	MW-18S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-07	MW-19S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-08	MW-32S-1018P	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-09	MW-12-1018FD	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-10	MW-13-1018FB	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1844318-11	MW-14-1018FB	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1106	1120	S0	Amber-A.5
L1845007-01	VTX-A	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1109	1116	S0	Amber-A.5
L1845007-02	VTX-B	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1109	1116	S0	Amber-A.5
L1845007-03	VTX-C	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1109	1116	S0	Amber-A.5
WG1176130-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-5	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-6	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176130-7	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176240-1	Laboratory Method Bl	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176240-2	Laboratory Control S	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176240-3	LCS Duplicate	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176241-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176241-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176241-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176307-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176307-1	MS DFTPP Tune Standa	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176307-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176307-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176307-2	Continuing Calibrati	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176307-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176307-3	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176307-3	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1176307-3	MS DFTPP Tune Standa	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176307-4	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1176307-4	Continuing Calibrati	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1176307-4	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				

Comments:

WG1176130-3	WG1176130-2
WG1176130-4	L1844318-05
WG1176130-5	L1844318-05
WG1176130-6	L1844318-08
WG1176130-7	L1844318-08
WG1176240-3	WG1176240-2
WG1176241-3	WG1176241-2

Analysis log File

Total Files Reported in Log : 29
Log Generated From Directory: O:\Organics\DATA\GCMS6\2018\NOV\NOV06\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F611061801.D	DFTPPGCMS6.M	WG1176307-1	WG1176307,,ICAL15108,MS..	11/6/2018 9:16 am
2	F611061802.D	14DIOXANEGCM	WG1176307-2	WG1176307,,ICAL15108,MS..	11/6/2018 10:05 am
3	F611061803.D	14DIOXANEGCM	wg1176130-1	wg1176307,wg1176130,ica..	11/6/2018 10:36 am
4	F611061804.D	14DIOXANEGCM	wg1176130-2	wg1176307,wg1176130,ica..	11/6/2018 11:06 am
5	F611061805.D	14DIOXANEGCM	wg1176130-3	wg1176307,wg1176130,ica..	11/6/2018 11:36 am
6	F611061806.D	14DIOXANEGCM	l1844263-02	wg1176307,wg1176240,ica..	11/6/2018 12:05 pm
7	F611061807.D	14DIOXANEGCM	l1844318-01	wg1176307,wg1176130,ica..	11/6/2018 12:35 pm
8	F611061808.D	14DIOXANEGCM	l1844318-02	wg1176307,wg1176130,ica..	11/6/2018 1:05 pm
9	F611061809.D	14DIOXANEGCM	l1844318-03	wg1176307,wg1176130,ica..	11/6/2018 1:33 pm
10	F611061810.D	14DIOXANEGCM	l1844318-04	wg1176307,wg1176130,ica..	11/6/2018 2:02 pm
11	F611061811.D	14DIOXANEGCM	l1844318-05	wg1176307,wg1176130,ica..	11/6/2018 2:31 pm
12	F611061812.D	14DIOXANEGCM	wg1176130-4	wg1176307,wg1176130,ica..	11/6/2018 3:00 pm
13	F611061813.D	14DIOXANEGCM	wg1176130-5	wg1176307,wg1176130,ica..	11/6/2018 3:28 pm
14	F611061814.D	14DIOXANEGCM	l1844318-06	wg1176307,wg1176130,ica..	11/6/2018 3:57 pm
15	F611061815.D	14DIOXANEGCM	l1844318-07	wg1176307,wg1176130,ica..	11/6/2018 4:26 pm
16	F611061816.D	14DIOXANEGCM	l1844318-08	wg1176307,wg1176130,ica..	11/6/2018 4:55 pm
17	F611061817.D	14DIOXANEGCM	wg1176130-6	wg1176307,wg1176130,ica..	11/6/2018 5:27 pm
18	F611061818.D	14DIOXANEGCM	wg1176130-7	wg1176307,wg1176130,ica..	11/6/2018 6:00 pm
19	F611061819.D	14DIOXANEGCM	l1844318-09	wg1176307,wg1176130,ica..	11/6/2018 6:31 pm
20	F611061820.D	14DIOXANEGCM	l1844318-10	wg1176307,wg1176130,ica..	11/6/2018 7:03 pm
21	F611061821.D	14DIOXANEGCM	l1844318-11	wg1176307,wg1176130,ica..	11/6/2018 7:35 pm
22	F611061822.D	14DIOXANEGCM	l1845007-01	wg1176307,wg1176241,ica..	11/6/2018 8:05 pm
23	F611061823.D	DFTPPGCMS6.M	WG1176307-3	WG1176307,,ICAL15108,MS..	11/6/2018 8:26 pm
24	F611061824.D	14DIOXANEGCM	WG1176307-4	WG1176307,,ICAL15108,MS..	11/6/2018 9:14 pm
25	F611061825.D	14DIOXANEGCM	L1843787-01D,32,50		11/6/2018 9:45 pm
26	F611061826.D	14DIOXANEGCM	L1843787-06D,32,50		11/6/2018 10:14 pm
27	F611061827.D	14DIOXANEGCM	WG1174166-4		11/6/2018 10:43 pm
28	F611061828.D	14DIOXANEGCM	L1845007-02	WG1176307,WG1176241,ICA..	11/6/2018 11:12 pm
29	F611061829.D	14DIOXANEGCM	L1845007-03	WG1176307,WG1176241,ICA..	11/6/2018 11:40 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1176130

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** du826-us
Surrogate Type: 1,4-DIOXANE **Lot #:** MSAX10
Spike Type: 1,4-DIOXANE **Lot #:** MSAW63
Spike Verify by: KM
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Glass Wool	28917999
Na2SO4	0000206268

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: du826-us

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L1844318-01 WATER	11/05/18 19:00	Sean Morris	510	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-02 WATER	11/05/18 19:00	Sean Morris	510	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-03 WATER	11/05/18 19:00	Sean Morris	510	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-04 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-05 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-06 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-07 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A

Reported: 20-DEC-18 03:07 PM

ORGANIC ELN REPORT

Workgroup: WG1176130

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L1844318-08 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-09 WATER	11/05/18 19:00	Sean Morris	520	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-10 WATER	11/05/18 19:00	Sean Morris	540	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
L1844318-11 WATER	11/05/18 19:00	Sean Morris	500	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
WG1176130-1 BLANK	11/05/18 19:00	Sean Morris	500	7	.5		11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
	shares QCs with WG1176240 and WG1176241									
WG1176130-2 LCS	11/05/18 19:00	Sean Morris	500	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
WG1176130-3 LCSD	11/05/18 19:00	Sean Morris	500	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
WG1176130-4 MS	11/05/18 19:00	Sean Morris	520	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
WG1176130-5 MSD	11/05/18 19:00	Sean Morris	520	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A
WG1176130-6 MS	11/05/18 19:00	Sean Morris	520	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A

Reported: 20-DEC-18 03:07 PM

ORGANIC ELN REPORT

Workgroup: WG1176130

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1176130-7 MSD	11/05/18 19:00	Sean Morris	520	7	.5	.5	11/05/18 21:00	Kimberly Mullen	5	SEVAP 1A

Reported: 20-DEC-18 03:07 PM

PFAAs

Semivolatiles QC Summary

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CDM Smith, Inc.
Project Name: REYNOLDS PLANT EMERGING CONTAM

Lab Number: L1844318
Project Number: 85906
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
MW-13S-1018P (L1844318-01)	121	114	107	103	121	145	118
MW-15S-1018P (L1844318-02)	122	133	111	105	118	135	117
MW-10S-1018P (L1844318-03)	107	119	103	96	108	128	109
MW-39-1018P (L1844318-04)	115	106	94	98	118	124	114
MW-28S-1018P (L1844318-05)	112	126	104	99	113	138	111
MW-18S-1018P (L1844318-06)	105	102	89	91	109	116	106
MW-19S-1018P (L1844318-07)	105	113	94	97	105	122	106
MW-32S-1018P (L1844318-08)	105	112	95	94	104	123	104
MW-12-1018FD (L1844318-09)	104	114	89	94	105	110	103
MW-13-1018FB (L1844318-10)	105	120	84	84	96	113	102
MW-14-1018FB (L1844318-11)	108	124	85	86	101	118	111
WG1175174-1BLANK	126	116	111	113	123	147	126
WG1175174-2LCS	123	112	110	107	117	142	119
WG1175174-3LCSD	126	113	114	114	125	139	123
MW-28S-1018PMS	118	133	107	107	119	140	120
MW-28S-1018PMSD	133	150	120	125	138	152	140
MW-32S-1018PMS	107	116	93	90	105	112	102
MW-32S-1018PMSD	102	113	84	88	102	110	105

QC LIMITS

(2-156) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(16-173) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(31-159) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(21-145) S4 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(30-139) S5 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(47-153) S6 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)
(47-153) S7 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)

*** Values outside of QC limits**

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CDM Smith, Inc.
Project Name: REYNOLDS PLANT EMERGING CONTAM

Lab Number: L1844318
Project Number: 85906
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
MW-13S-1018P (L1844318-01)	79	106	122	110	72	83	120
MW-15S-1018P (L1844318-02)	78	103	126	113	74	86	127
MW-10S-1018P (L1844318-03)	68	98	117	102	64	72	117
MW-39-1018P (L1844318-04)	79	102	108	105	65	75	113
MW-28S-1018P (L1844318-05)	68	102	119	103	64	78	124
MW-18S-1018P (L1844318-06)	73	94	102	99	61	73	107
MW-19S-1018P (L1844318-07)	68	97	103	100	54	72	113
MW-32S-1018P (L1844318-08)	64	96	110	104	65	68	112
MW-12-1018FD (L1844318-09)	60	93	96	101	61	79	113
MW-13-1018FB (L1844318-10)	84	96	100	102	64	97	118
MW-14-1018FB (L1844318-11)	106	100	105	101	82	96	113
WG1175174-1BLANK	108	117	124	116	113	106	127
WG1175174-2LCS	116	112	121	115	109	105	124
WG1175174-3LCSD	115	118	120	112	131	97	120
MW-28S-1018PMS	76	105	120	110	71	79	117
MW-28S-1018PMSD	79	124	136	130	74	92	142
MW-32S-1018PMS	67	94	112	100	71	74	112
MW-32S-1018PMSD	65	97	104	97	59	67	106

QC LIMITS

(1-244) S8 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(34-146) S9 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(42-146) S10 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(38-144) S11 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(7-170) S12 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(1-181) S13 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)
(1-181) S14 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)

*** Values outside of QC limits**

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CDM Smith, Inc.
Project Name: REYNOLDS PLANT EMERGING CONTAM

Lab Number: L1844318
Project Number: 85906
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()	TOT OUT
MW-13S-1018P (L1844318-01)	24	80	102	109	--	--	--	0
MW-15S-1018P (L1844318-02)	30	81	109	116	--	--	--	0
MW-10S-1018P (L1844318-03)	27	76	100	112	--	--	--	0
MW-39-1018P (L1844318-04)	47	70	95	102	--	--	--	0
MW-28S-1018P (L1844318-05)	20	75	105	120	--	--	--	0
MW-18S-1018P (L1844318-06)	43	63	87	89	--	--	--	0
MW-19S-1018P (L1844318-07)	41	69	102	99	--	--	--	0
MW-32S-1018P (L1844318-08)	18	63	96	105	--	--	--	0
MW-12-1018FD (L1844318-09)	32	71	96	102	--	--	--	0
MW-13-1018FB (L1844318-10)	27	75	99	106	--	--	--	0
MW-14-1018FB (L1844318-11)	25	87	99	109	--	--	--	0
WG1175174-1BLANK	25	94	104	100	--	--	--	0
WG1175174-2LCS	23	104	110	101	--	--	--	0
WG1175174-3LCSD	27	96	100	103	--	--	--	0
MW-28S-1018PMS	39	77	102	116	--	--	--	0
MW-28S-1018PMSD	49	88	127	133	--	--	--	0
MW-32S-1018PMS	25	70	100	106	--	--	--	0
MW-32S-1018PMSD	22	68	96	101	--	--	--	0

QC LIMITS

(1-87) S15 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(23-146) S16 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(24-161) S17 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(33-143) S18 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)

*** Values outside of QC limits**

Laboratory Control Sample
Form 3

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Matrix	: WATER		
LCS Sample ID	: WG1175174-2 **Analysis Date** : 11/08/18 13:45	**File ID**	: I12062
LCSD Sample ID	: WG1175174-3 **Analysis Date** : 11/08/18 14:01	**File ID**	: I12063

	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)	40	40.5	101	40	41.0	103	2	67-148	30
Perfluoropentanoic Acid (PFPeA)	40	41.0	102	40	42.1	105	3	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	40	46.6	116	40	46.9	117	1	65-157	30
Perfluorohexanoic Acid (PFHxA)	40	42.4	106	40	43.2	108	2	69-168	30
Perfluoroheptanoic Acid (PFHpA)	40	38.2	95	40	38.8	97	2	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	40	38.6	97	40	40.0	100	3	69-177	30
Perfluorooctanoic Acid (PFOA)	40	38.2	96	40	40.0	100	4	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	40	40.6	102	40	43.2	108	6	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	40	40.8	102	40	42.7	107	5	61-179	30
Perfluorononanoic Acid (PFNA)	40	40.9	102	40	40.7	102	0	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	40	33.9	85	40	34.8	87	2	52-151	30
Perfluorodecanoic Acid (PFDA)	40	41.4	104	40	43.5	109	5	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	40	40.0	100	40	34.0	85	16	56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	40	40.1	100	40	41.8	104	4	60-166	30

Laboratory Control Sample
Form 3

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Matrix	: WATER		
LCS Sample ID	: WG1175174-2 **Analysis Date** : 11/08/18 13:45	**File ID**	: I12062
LCSD Sample ID	: WG1175174-3 **Analysis Date** : 11/08/18 14:01	**File ID**	: I12063

	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
Perfluoroundecanoic Acid (PFUnA)	40	38.2	96	40	41.4	103	7	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	40	44.2	110	40	48.2	120	9	38-156	30
Perfluorooctanesulfonamide (FOSA)	40	38.1	95	40	38.9	97	2	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	40	32.7	82	40	35.4	88	7	45-170	30
Perfluorododecanoic Acid (PFDoA)	40	39.2	98	40	42.7	107	9	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	40	43.3	108	40	47.3	118	9	48-158	30
Perfluorotetradecanoic Acid (PFTA)	40	44.3	111	40	44.1	110	1	59-182	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Client Sample ID	: MW-28S-1018P	Matrix	: WATER
Lab Sample ID	: L1844318-05	Analysis Date	: 11/10/18 06:02
Matrix Spike	: WG1175174-4	MS Analysis Date	: 11/10/18 06:18
Matrix Spike Dup	: WG1175174-5	MSD Analysis Date	: 11/10/18 06:35

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	5.80	35.8	40.9	98	36.1	37.0	86	10	67-148	30
Perfluoropentanoic Acid (PFPeA)	0.918J	35.8	36.3	101	36.1	32.4	90	11	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	0.378J	35.8	41.2	115	36.1	35.9	99	14	65-157	30
Perfluorohexanoic Acid (PFHxA)	0.928J	35.8	38.5	107	36.1	33.7	93	13	69-168	30
Perfluoroheptanoic Acid (PFHpA)	0.678J	35.8	34.5	96	36.1	30.6	85	12	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	35.8	33.9	95	36.1	31.0	86	9	69-177	30
Perfluorooctanoic Acid (PFOA)	1.71J	35.8	36.0	100	36.1	32.0	89	12	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35.8	35.0	98	36.1	33.8	94	3	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.8	33.0	92	36.1	29.6	82	11	61-179	30
Perfluorononanoic Acid (PFNA)	ND	35.8	34.8	97	36.1	31.7	88	9	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	2.85	35.8	31.6	80	36.1	28.1	70	12	52-151	30
Perfluorodecanoic Acid (PFDA)	ND	35.8	37.0	103	36.1	31.0	86	18	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.8	34.7	97	36.1	31.0	86	11	56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	35.8	32.9	92	36.1	31.6	88	4	60-166	30
Perfluoroundecanoic Acid (PFUnA)	ND	35.8	34.0	95	36.1	28.6	79	17	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.8	38.8	108	36.1	31.4	87	21	38-156	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Client Sample ID	: MW-28S-1018P	Matrix	: WATER
Lab Sample ID	: L1844318-05	Analysis Date	: 11/10/18 06:02
Matrix Spike	: WG1175174-4	MS Analysis Date	: 11/10/18 06:18
Matrix Spike Dup	: WG1175174-5	MSD Analysis Date	: 11/10/18 06:35

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorooctanesulfonamide (FOSA)	ND	35.8	30.5	85	36.1	27.4	76	11	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	35.8	31.1	87	36.1	26.0	72	18	45-170	30
Perfluorododecanoic Acid (PFDoA)	ND	35.8	35.4	99	36.1	28.7	80	21	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	ND	35.8	36.8	103	36.1	29.8	82	21	48-158	30
Perfluorotetradecanoic Acid (PFTA)	ND	35.8	37.1	104	36.1	32.1	89	14	59-182	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Client Sample ID	: MW-32S-1018P	Matrix	: WATER
Lab Sample ID	: L1844318-08	Analysis Date	: 11/10/18 07:24
Matrix Spike	: WG1175174-6	MS Analysis Date	: 11/10/18 07:41
Matrix Spike Dup	: WG1175174-7	MSD Analysis Date	: 11/10/18 07:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	ND	39.2	43.0	110	42.2	48.8	116	13	67-148	30
Perfluoropentanoic Acid (PFPeA)	ND	39.2	43.9	112	42.2	49.4	117	12	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	ND	39.2	48.9	125	42.2	56.5	134	14	65-157	30
Perfluorohexanoic Acid (PFHxA)	ND	39.2	45.8	117	42.2	51.3	122	11	69-168	30
Perfluoroheptanoic Acid (PFHpA)	ND	39.2	41.0	105	42.2	46.3	110	12	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	39.2	45.6	116	42.2	49.0	116	7	69-177	30
Perfluorooctanoic Acid (PFOA)	ND	39.2	43.0	110	42.2	47.2	112	9	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	39.2	43.5	111	42.2	50.4	119	15	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	39.2	42.4	108	42.2	48.4	115	13	61-179	30
Perfluorononanoic Acid (PFNA)	ND	39.2	45.1	115	42.2	47.4	112	5	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	ND	39.2	35.5	90	42.2	40.4	96	13	52-151	30
Perfluorodecanoic Acid (PFDA)	ND	39.2	46.3	118	42.2	50.9	121	9	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	39.2	42.0	107	42.2	55.0	130	27	56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.2	43.8	112	42.2	53.5	127	20	60-166	30
Perfluoroundecanoic Acid (PFUnA)	ND	39.2	41.6	106	42.2	46.3	110	11	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	ND	39.2	47.0	120	42.2	51.0	121	8	38-156	30

Matrix Spike
Form 3

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Client Sample ID	: MW-32S-1018P	Matrix	: WATER
Lab Sample ID	: L1844318-08	Analysis Date	: 11/10/18 07:24
Matrix Spike	: WG1175174-6	MS Analysis Date	: 11/10/18 07:41
Matrix Spike Dup	: WG1175174-7	MSD Analysis Date	: 11/10/18 07:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorooctanesulfonamide (FOSA)	ND	39.2	37.3	95	42.2	43.6	103	16	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.2	36.5	93	42.2	43.2	102	17	45-170	30
Perfluorododecanoic Acid (PFDoA)	ND	39.2	44.0	112	42.2	46.3	110	5	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	ND	39.2	43.4	111	42.2	48.5	115	11	48-158	30
Perfluorotetradecanoic Acid (PFTA)	ND	39.2	46.3	118	42.2	52.7	125	13	59-182	30

Method Blank Summary
Form 4
SEMIVOLATILES

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab Sample ID	: WG1175174-1	**Lab File ID**	: I12061
Instrument ID	: LCMS01	**Extraction Date**	: 11/02/18
Matrix	: WATER	**Analysis Date**	: 11/08/18 13:28
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1175174-2LCS	WG1175174-2	11/08/18 13:45
WG1175174-3LCSD	WG1175174-3	11/08/18 14:01
MW-13S-1018P	L1844318-01	11/10/18 04:55
MW-15S-1018P	L1844318-02	11/10/18 05:12
MW-10S-1018P	L1844318-03	11/10/18 05:29
MW-39-1018P	L1844318-04	11/10/18 05:45
MW-28S-1018P	L1844318-05	11/10/18 06:02
MW-28S-1018PMS	WG1175174-4	11/10/18 06:18
MW-28S-1018PMSD	WG1175174-5	11/10/18 06:35
MW-18S-1018P	L1844318-06	11/10/18 06:51
MW-19S-1018P	L1844318-07	11/10/18 07:08
MW-32S-1018P	L1844318-08	11/10/18 07:24
MW-32S-1018PMS	WG1175174-6	11/10/18 07:41
MW-32S-1018PMSD	WG1175174-7	11/10/18 07:58
MW-12-1018FD	L1844318-09	11/10/18 08:31
MW-13-1018FB	L1844318-10	11/10/18 08:47
MW-14-1018FB	L1844318-11	11/10/18 09:04

Date Created: 12/06/18
Created By: Jason Hebert
File: PM5798-1
Page: 1

PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days

Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.373	ng/l	67-148	30	67-148	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.464	ng/l	63-161	30	63-161	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.380	ng/l	65-157	30	65-157	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	2	0.488	ng/l	37-219	30	37-219	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.492	ng/l	69-168	30	69-168	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	2	0.238	ng/l	52-156	30	52-156	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.372	ng/l	58-159	30	58-159	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.436	ng/l	69-177	30	69-177	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.460	ng/l	63-159	30	63-159	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	0.194	ng/l	49-187	30	49-187	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.520	ng/l	61-179	30	61-179	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.436	ng/l	68-171	30	68-171	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.560	ng/l	52-151	30	52-151	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.620	ng/l	63-171	30	63-171	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	0.291	ng/l	56-173	30	56-173	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	2	0.536	ng/l	48-150	30	48-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA/	2355-31-9	2	0.250	ng/l	60-166	30	60-166	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.424	ng/l	60-153	30	60-153	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.386	ng/l	38-156	30	38-156	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.556	ng/l	46-170	30	46-170	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.373	ng/l	45-170	30	45-170	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.592	ng/l	67-153	30	67-153	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.314	ng/l	48-158	30	48-158	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.988	ng/l	59-182	30	59-182	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	50	22.7	ng/l	50-150	30	50-150	30	30			
Decafluoro-3H-4,8-Dioxanononanoate (ADONA)	958445-44-8	2	0.464	ng/l	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	4	1.24	ng/l	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	4	2.07	ng/l	50-150	30	50-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*2-156*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*16-173*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*31-159*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-	*NONE*									*1-313*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*21-145*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*30-139*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*47-153*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*36-149*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*1-244*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*34-146*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*42-146*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*38-144*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*7-170*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*1-181*		

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 Alpha Analytical, Inc.

Date Created: 12/06/18
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File: PM5798-1
Page: 2

PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-144*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-87*		
N-Deuterioethyl)perfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*23-146*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*24-161*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*33-143*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM5802-1
Page: 1

PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 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	1	0.0213	ng/g	50-150	30	50-150	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1	0.0104	ng/g	50-150	30	50-150	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1	0.0635	ng/g	50-150	30	50-150	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	1	0.108	ng/g	50-150	30	50-150	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1	0.064	ng/g	50-150	30	50-150	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1	0.0965	ng/g	50-150	30	50-150	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1	0.064	ng/g	50-150	30	50-150	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1	0.057	ng/g	50-150	30	50-150	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1	0.0411	ng/g	50-150	30	50-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	1	0.198	ng/g	50-150	30	50-150	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1	0.136	ng/g	50-150	30	50-150	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1	0.083	ng/g	50-150	30	50-150	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1	0.121	ng/g	50-150	30	50-150	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1	0.072	ng/g	50-150	30	50-150	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	1	0.275	ng/g	50-150	30	50-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1	0.088	ng/g	50-150	30	50-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	1	0.103	ng/g	50-150	30	50-150	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1	0.056	ng/g	50-150	30	50-150	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1	0.097	ng/g	50-150	30	50-150	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1	0.103	ng/g	50-150	30	50-150	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1	0.090	ng/g	50-150	30	50-150	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1	0.086	ng/g	50-150	30	50-150	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1	0.062	ng/g	50-150	30	50-150	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1	0.070	ng/g	50-150	30	50-150	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	10	3.81	ng/g	50-150	30	50-150	30	30			
Decafluoro-3H-4,8-Dioxanonanoate (ADONA)	958445-44-8	1	0.0575	ng/g	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	1	0.120	ng/g	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	1	0.171	ng/g	50-150	30	50-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*50-150*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*50-150*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*50-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*50-150*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*50-150*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*50-150*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*50-150*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*50-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*50-150*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*50-150*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*50-150*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*50-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*50-150*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*50-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Date Created: 12/10/18
Created By: Jason Hebert
File: PM5802-1
Page: 2

PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 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[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*50-150*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*50-150*		
N-Deuterioethyl)perfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*50-150*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*50-150*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*50-150*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

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 Alpha Analytical, Inc.

Semivolatile Sample Data

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-01	Date Collected	: 10/30/18 11:00
Client ID	: MW-13S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 04:55
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12145	Analyst	: AJ
Sample Amount	: 276 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	3.62	1.81	0.338	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.953	1.81	0.420	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.81	0.344	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.938	1.81	0.446	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.81	0.337	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.81	0.395	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.81	0.417	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.81	0.176	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.81	0.471	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.81	0.395	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.81	0.507	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.81	0.562	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.81	0.263	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.81	0.227	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.81	0.384	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.81	0.350	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.81	0.504	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.81	0.338	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.81	0.536	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.81	0.284	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-01	**Date Collected**	: 10/30/18 11:00
Client ID	: MW-13S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 04:55
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12145	**Analyst**	: AJ
Sample Amount	: 276 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.81	0.895	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-02	Date Collected	: 10/30/18 12:00
Client ID	: MW-15S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 05:12
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12146	Analyst	: AJ
Sample Amount	: 277 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	1.12	1.80	0.337	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.19	1.80	0.419	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.80	0.343	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.902	1.80	0.444	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.361	1.80	0.336	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.80	0.394	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.953	1.80	0.415	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.80	0.175	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.80	0.469	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.80	0.394	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	3.39	1.80	0.505	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.80	0.560	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.80	0.262	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.80	0.226	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.80	0.383	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.80	0.348	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.80	0.502	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.80	0.336	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.80	0.534	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.80	0.283	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-02	**Date Collected**	: 10/30/18 12:00
Client ID	: MW-15S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 05:12
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12146	**Analyst**	: AJ
Sample Amount	: 277 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.80	0.892	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-03	Date Collected	: 10/30/18 11:30
Client ID	: MW-10S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 05:29
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12147	Analyst	: AJ
Sample Amount	: 271 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	0.413	1.84	0.344	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.84	0.428	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.84	0.350	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.84	0.454	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.84	0.343	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.84	0.402	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.749	1.84	0.424	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.84	0.179	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.84	0.480	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.84	0.402	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.84	0.517	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.84	0.572	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.84	0.268	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.84	0.231	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.84	0.391	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.84	0.356	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.84	0.513	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.84	0.344	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.84	0.546	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.84	0.290	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-03	**Date Collected**	: 10/30/18 11:30
Client ID	: MW-10S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 05:29
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12147	**Analyst**	: AJ
Sample Amount	: 271 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.84	0.911	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-04	Date Collected	: 10/30/18 10:40
Client ID	: MW-39-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 05:45
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12148	Analyst	: AJ
Sample Amount	: 283 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	3.21	1.77	0.330	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.77	0.410	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.622	1.77	0.336	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.664	1.77	0.435	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.703	1.77	0.329	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.77	0.385	U
335-67-1	Perfluorooctanoic Acid (PFOA)	3.44	1.77	0.406	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.77	0.171	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.77	0.459	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.77	0.385	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	3.40	1.77	0.495	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.77	0.548	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.77	0.257	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.77	0.221	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.77	0.374	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.77	0.341	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.77	0.491	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.77	0.329	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.77	0.523	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.77	0.277	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-04	**Date Collected**	: 10/30/18 10:40
Client ID	: MW-39-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 05:45
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12148	**Analyst**	: AJ
Sample Amount	: 283 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.77	0.873	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-05	Date Collected	: 10/30/18 12:15
Client ID	: MW-28S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 06:02
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12149	Analyst	: AJ
Sample Amount	: 280 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	5.80	1.78	0.333	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.918	1.78	0.414	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.378	1.78	0.339	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.928	1.78	0.439	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.678	1.78	0.332	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.78	0.389	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.71	1.78	0.411	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.78	0.173	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.78	0.464	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.78	0.389	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.85	1.78	0.500	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.78	0.554	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.78	0.260	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.78	0.224	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.78	0.378	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.78	0.345	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.78	0.496	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.78	0.333	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.78	0.528	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.78	0.280	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-05	**Date Collected**	: 10/30/18 12:15
Client ID	: MW-28S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 06:02
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12149	**Analyst**	: AJ
Sample Amount	: 280 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.78	0.882	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-06	Date Collected	: 10/30/18 13:10
Client ID	: MW-18S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 06:51
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12152	Analyst	: AJ
Sample Amount	: 280 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	3.84	1.78	0.333	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.78	0.414	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.78	0.339	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.914	1.78	0.439	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.682	1.78	0.332	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.78	0.389	U
335-67-1	Perfluorooctanoic Acid (PFOA)	2.00	1.78	0.411	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.78	0.173	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.78	0.464	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.407	1.78	0.389	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.01	1.78	0.500	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.78	0.554	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.78	0.260	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	0.654	1.78	0.224	J
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.78	0.378	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.78	0.345	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.78	0.496	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.78	0.333	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.78	0.528	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.78	0.280	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-06	**Date Collected**	: 10/30/18 13:10
Client ID	: MW-18S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 06:51
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12152	**Analyst**	: AJ
Sample Amount	: 280 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.78	0.882	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-07	Date Collected	: 10/30/18 12:40
Client ID	: MW-19S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 07:08
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12153	Analyst	: AJ
Sample Amount	: 278 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	3.33	1.80	0.336	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.80	0.417	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.80	0.342	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.80	0.442	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.80	0.334	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.80	0.392	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.33	1.80	0.414	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.80	0.174	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.80	0.468	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.80	0.392	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.21	1.80	0.504	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.80	0.558	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.80	0.262	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.80	0.225	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.80	0.381	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.80	0.347	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.80	0.500	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.80	0.335	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.80	0.532	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.80	0.282	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-07	**Date Collected**	: 10/30/18 12:40
Client ID	: MW-19S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 07:08
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12153	**Analyst**	: AJ
Sample Amount	: 278 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.80	0.888	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-08	Date Collected	: 10/30/18 10:00
Client ID	: MW-32S-1018P	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 07:24
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12154	Analyst	: AJ
Sample Amount	: 262 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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	1.91	0.356	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.91	0.443	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.91	0.362	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.91	0.469	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.91	0.355	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.91	0.416	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.91	0.439	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.91	0.185	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.91	0.496	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.91	0.416	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.91	0.534	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.91	0.592	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.91	0.277	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.91	0.239	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.91	0.404	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.91	0.368	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.91	0.530	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.91	0.356	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.91	0.565	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.91	0.300	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-08	**Date Collected**	: 10/30/18 10:00
Client ID	: MW-32S-1018P	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 07:24
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12154	**Analyst**	: AJ
Sample Amount	: 262 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.91	0.943	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-09	Date Collected	: 10/30/18 11:40
Client ID	: MW-12-1018FD	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 08:31
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12158	Analyst	: AJ
Sample Amount	: 279 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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)	0.459	1.79	0.334	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.79	0.416	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.79	0.340	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.79	0.441	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.79	0.333	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.79	0.391	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.79	0.412	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.79	0.174	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.79	0.466	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.79	0.391	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.79	0.502	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.79	0.556	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.79	0.260	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	0.656	1.79	0.224	J
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.79	0.380	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.79	0.346	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.79	0.498	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.738	1.79	0.334	J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.79	0.530	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.79	0.281	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-09	**Date Collected**	: 10/30/18 11:40
Client ID	: MW-12-1018FD	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 08:31
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12158	**Analyst**	: AJ
Sample Amount	: 279 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.79	0.885	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-10	Date Collected	: 10/30/18 11:10
Client ID	: MW-13-1018FB	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 08:47
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12159	Analyst	: AJ
Sample Amount	: 275 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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	1.82	0.339	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.82	0.422	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.82	0.345	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.82	0.447	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.82	0.338	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.82	0.396	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.82	0.418	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.82	0.176	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.82	0.473	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.82	0.396	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.82	0.509	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.82	0.564	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.82	0.264	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	0.349	1.82	0.228	J
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.82	0.385	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.82	0.351	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.82	0.505	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.444	1.82	0.339	J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.82	0.538	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.82	0.285	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-10	**Date Collected**	: 10/30/18 11:10
Client ID	: MW-13-1018FB	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 08:47
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12159	**Analyst**	: AJ
Sample Amount	: 275 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.82	0.898	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: L1844318-11	Date Collected	: 10/30/18 12:50
Client ID	: MW-14-1018FB	Date Received	: 10/30/18
Sample Location	: NY	Date Analyzed	: 11/10/18 09:04
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12160	Analyst	: AJ
Sample Amount	: 263 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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	1.90	0.355	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.90	0.441	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.90	0.361	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.90	0.468	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.90	0.354	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.90	0.414	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.90	0.437	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	4.26	1.90	0.184	
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.90	0.494	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.90	0.414	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.90	0.532	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.90	0.589	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.90	0.276	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.90	0.238	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.90	0.403	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.90	0.367	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.90	0.528	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.90	0.354	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.90	0.563	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.90	0.298	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: L1844318-11	**Date Collected**	: 10/30/18 12:50
Client ID	: MW-14-1018FB	**Date Received**	: 10/30/18
Sample Location	: NY	**Date Analyzed**	: 11/10/18 09:04
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12160	**Analyst**	: AJ
Sample Amount	: 263 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.90	0.939	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	Lab Number	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	Project Number	: 85906
Lab ID	: WG1175174-1	Date Collected	: NA
Client ID	: WG1175174-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/18 13:28
Sample Matrix	: WATER	Date Extracted	: 11/02/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I12061	Analyst	: AJ
Sample Amount	: 250 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 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	2.00	0.373	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.00	0.464	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	2.00	0.380	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	2.00	0.492	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	2.00	0.372	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	0.436	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	2.00	0.460	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.00	0.194	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.00	0.520	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.00	0.436	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	0.560	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.00	0.620	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.00	0.291	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.00	0.250	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.00	0.424	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.00	0.386	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.00	0.556	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.00	0.373	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.00	0.592	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.00	0.314	U

Form 1
SemiVolatile Organics

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906
Lab ID	: WG1175174-1	**Date Collected**	: NA
Client ID	: WG1175174-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 11/08/18 13:28
Sample Matrix	: WATER	**Date Extracted**	: 11/02/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I12061	**Analyst**	: AJ
Sample Amount	: 250 ml	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.00	0.988	U

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-01
Name: I12145
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.14	212.926 > 169.111	4352		1.000		na	
2	M3PFBA	INT STD	2.14	215.926 > 172.122	43374		4.686		na	46.9
3	MPFBA	INT STD	2.14	216.926 > 172.137	49790		12.085		na	120.8
4	PFPeA	2706-90-3	5.12	262.926 > 219.002	1495		0.263		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	60407		11.361		na	113.6
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	12505		9.971		na	99.7
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8892		11.430		na	114.3
10	PFHxA	307-24-4	7.06	312.989 > 269.028	2131		0.259		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	84784		10.332		na	103.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	624		0.054		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	116769		12.102		na	121.0
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	9525		13.673		na	136.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	578		0.055	11.34	YES	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	113905		6.033		na	60.3
22	PFOA	335-67-1		412.989 > 368.9	578		0.055		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	108612		11.824		na	118.2
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	4840		7.495		na	75.0
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	97182		10.607		na	106.1
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	35		0.022	7.81	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	37		0.032	7.16	YES	
31	PFOS	1763-23-1		498.989 > 80.294	72		0.054		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10061		6.211		na	62.1
33	M8PFOS	INT STD	10.08	507.053 > 80.294	10960		11.681		na	116.8
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	84016		5.651		na	56.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	83076		10.951		na	109.5
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2622		6.914		na	69.1
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

ID: L1844318-01
Name: I12145
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	6814		8.333		na	83.3
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	76488		12.046		na	120.5
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	6472		2.391		na	23.9
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	6287		7.970		na	79.7
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	72821		10.208		na	102.1
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	57479		10.878		na	108.8

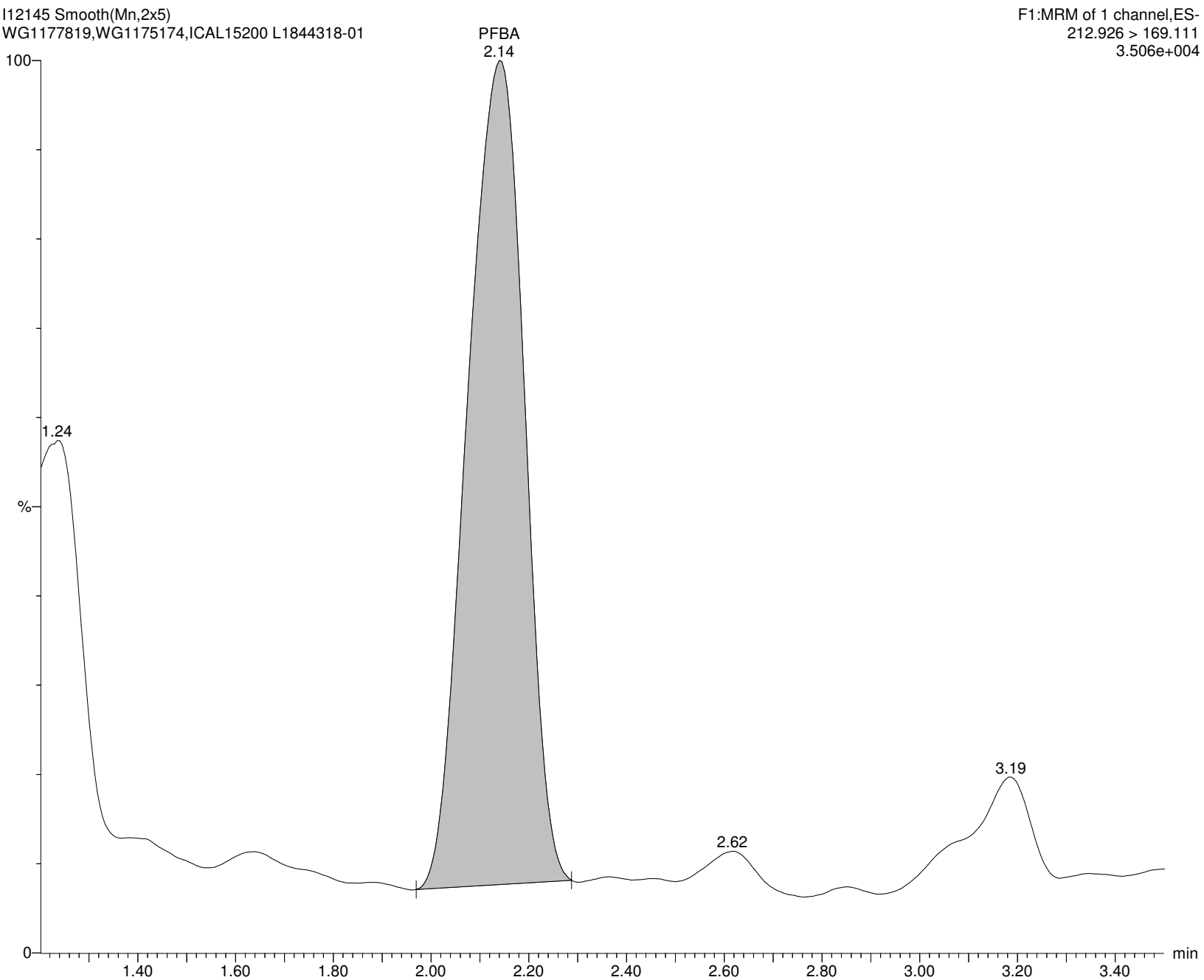
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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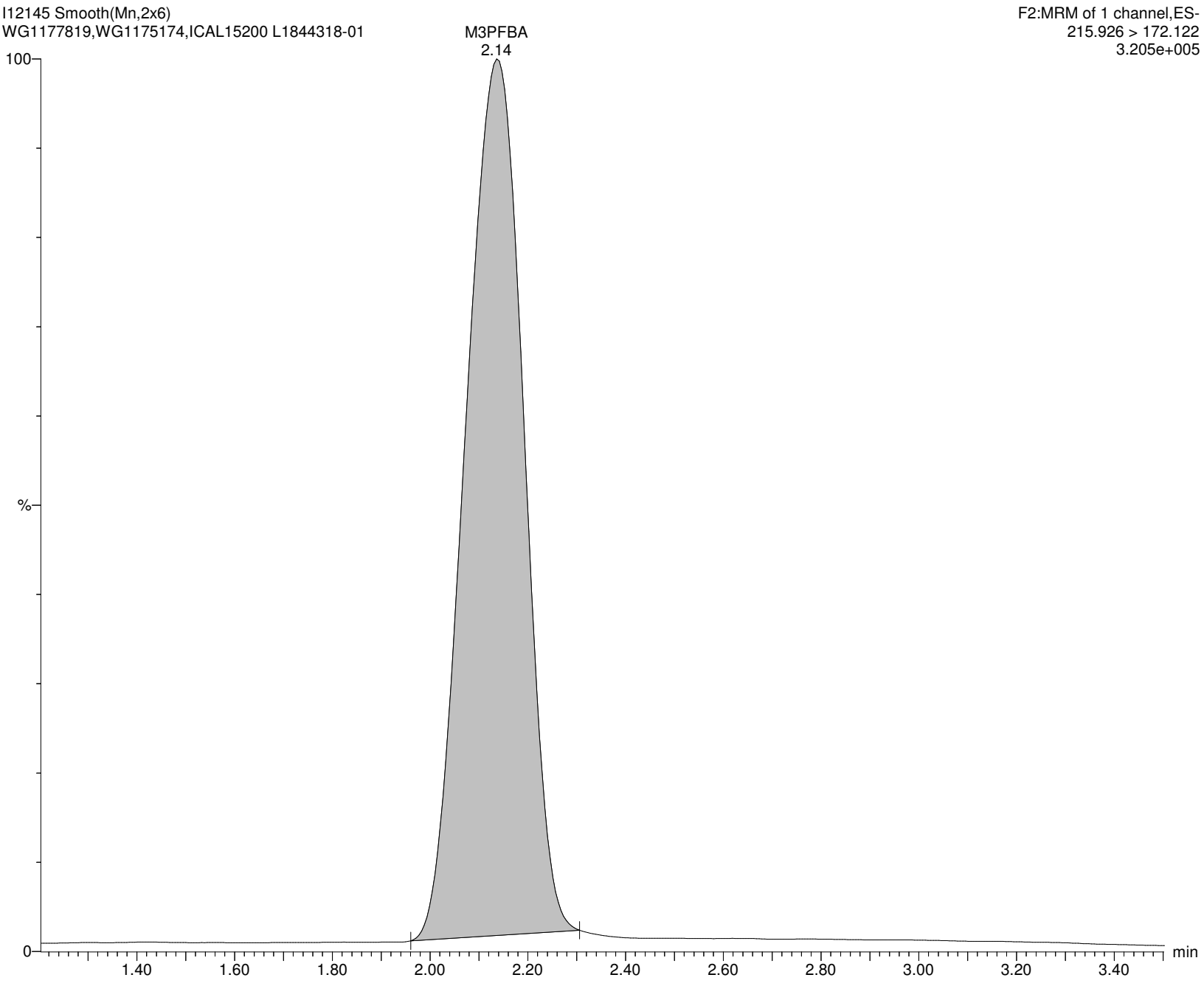
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M3PFBA

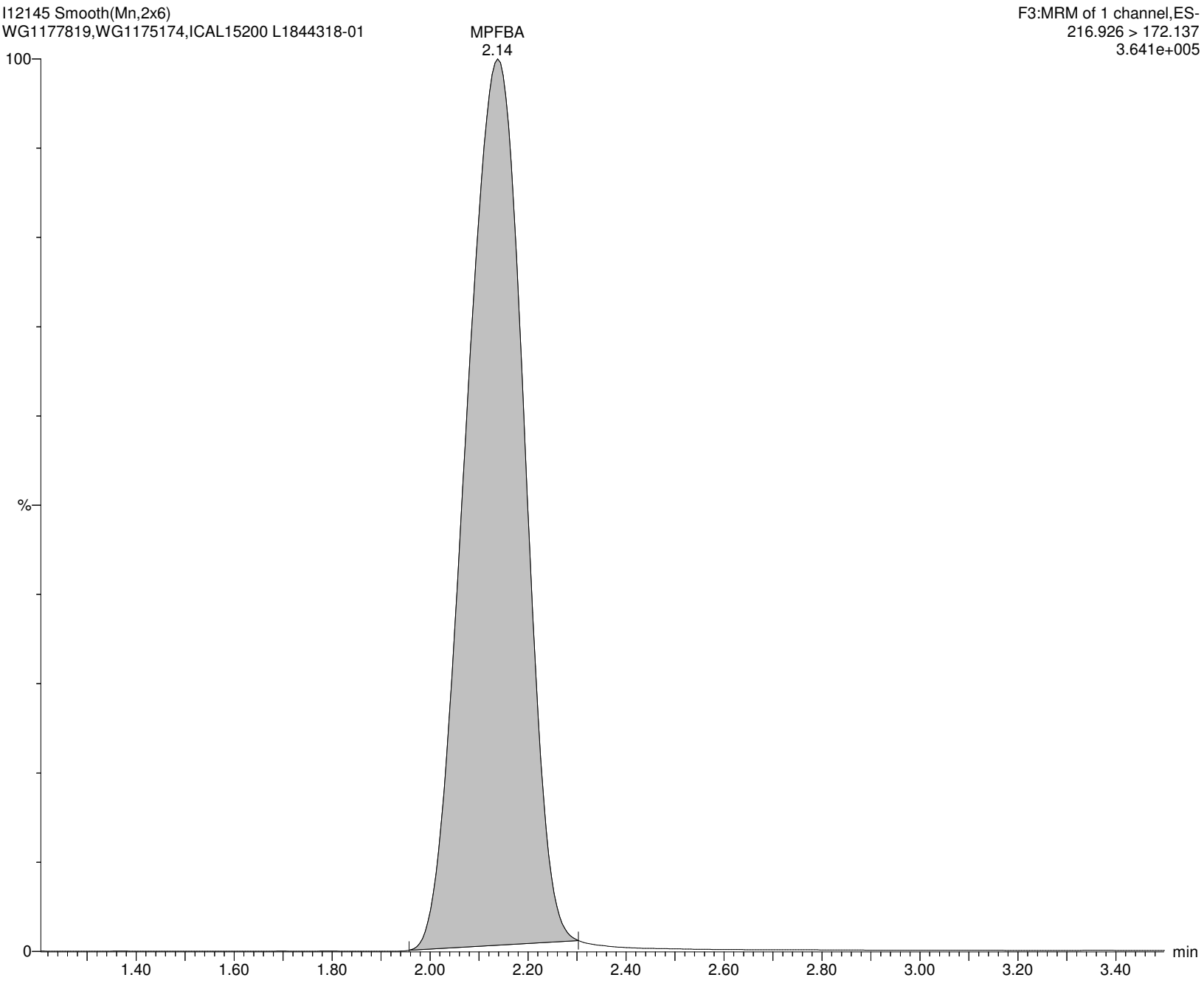


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

MPFBA

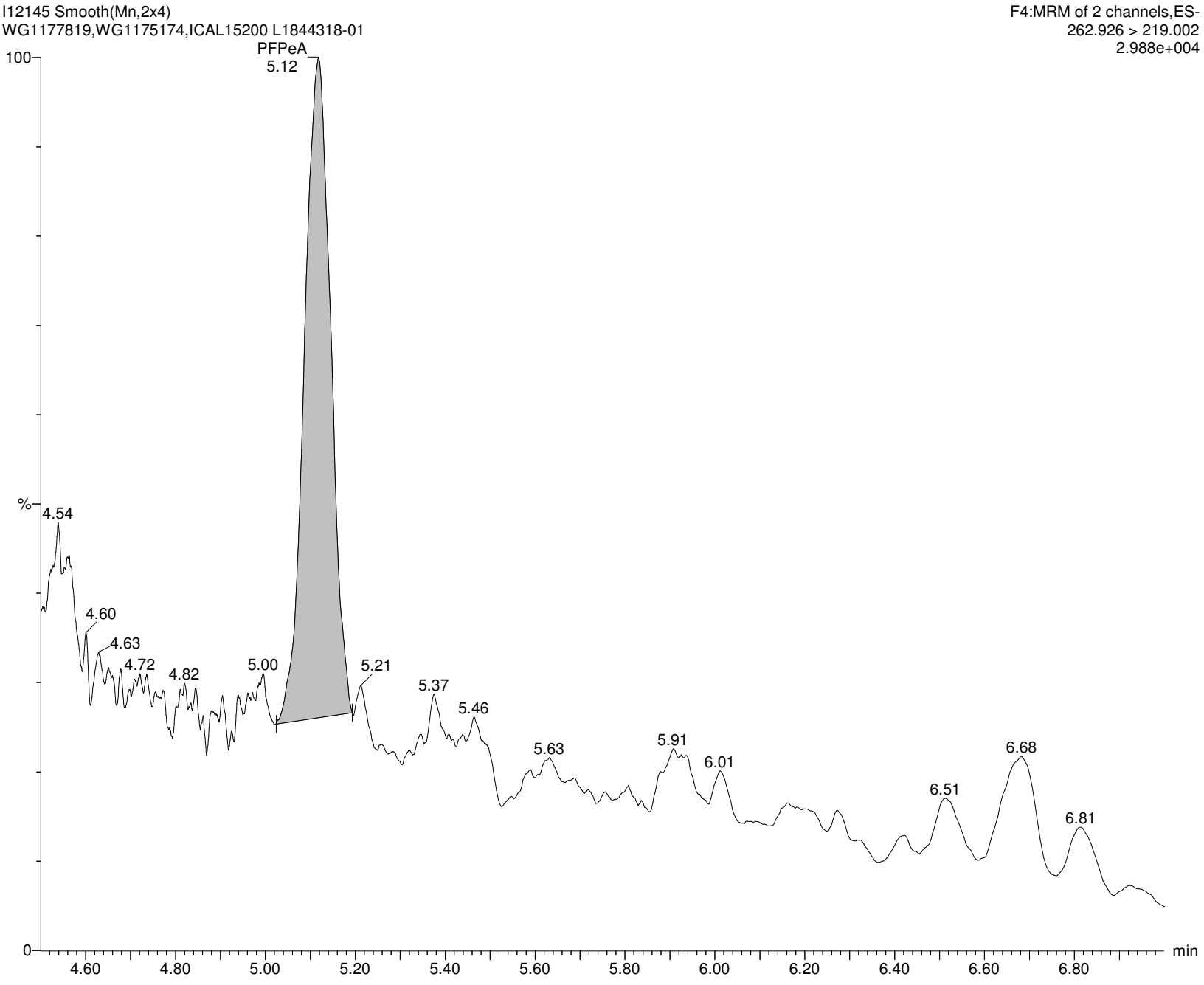


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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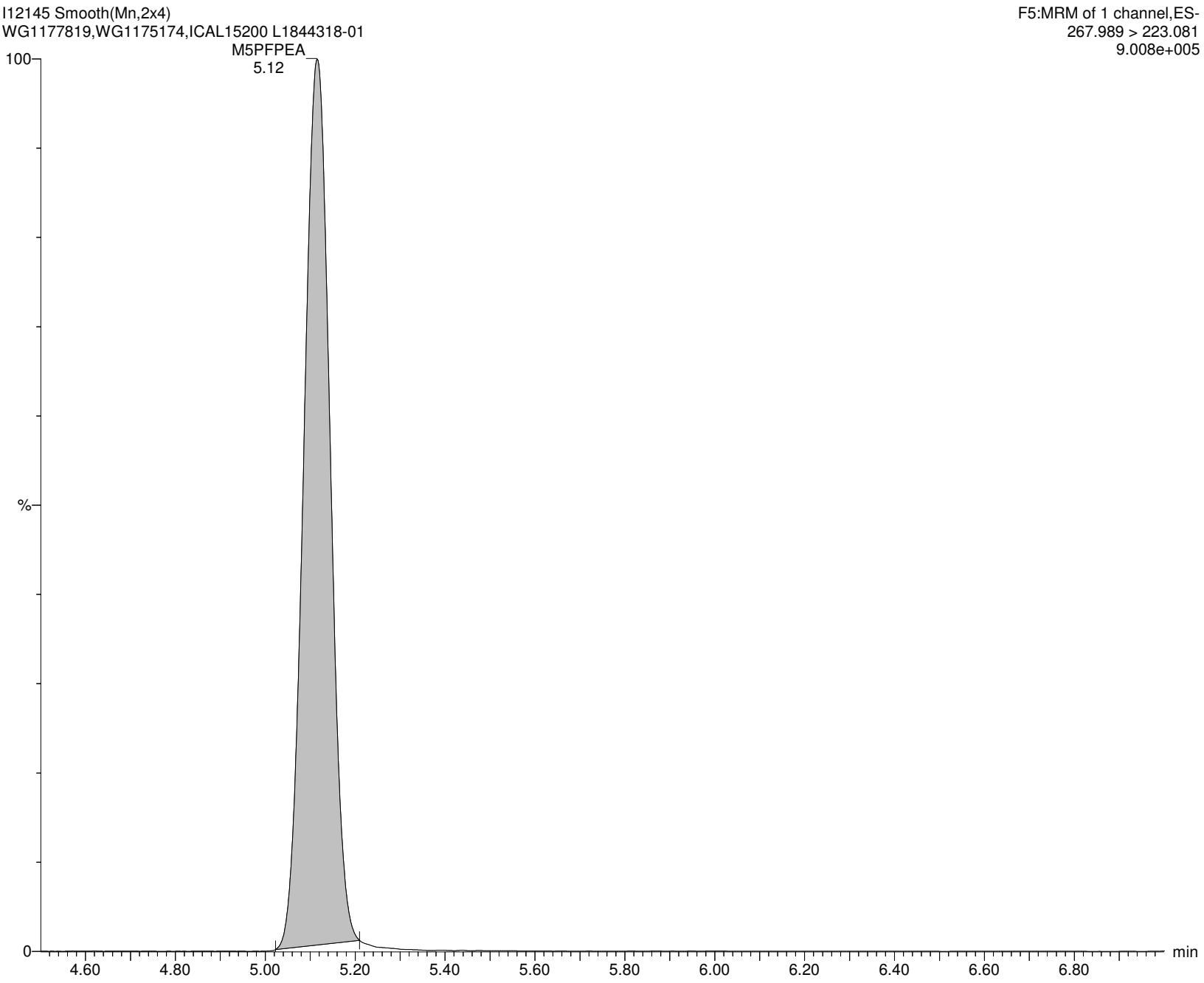

all concentration units in (ng/mL)

Alpha Analytical Inc.
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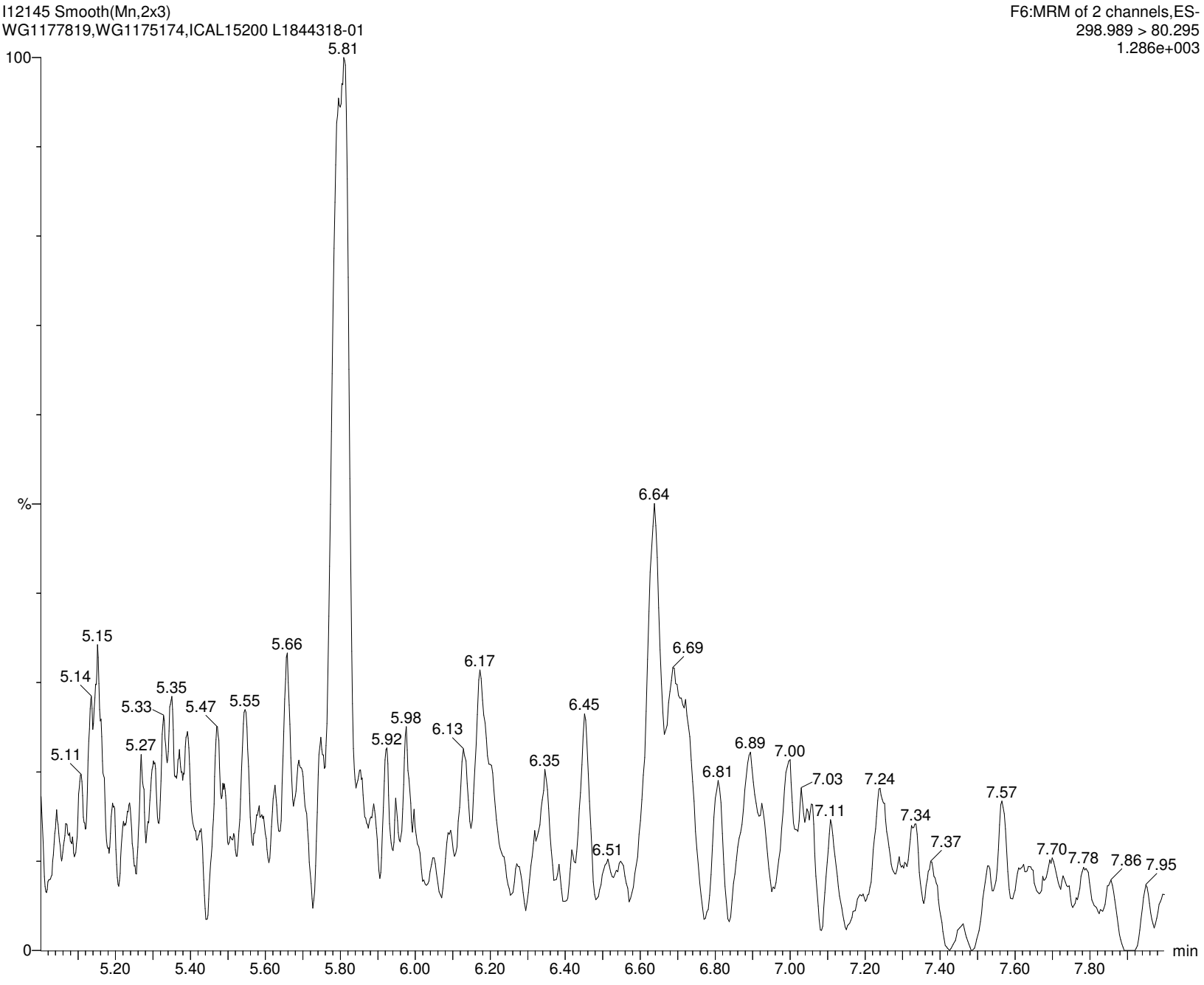

all concentration units in (ng/mL)

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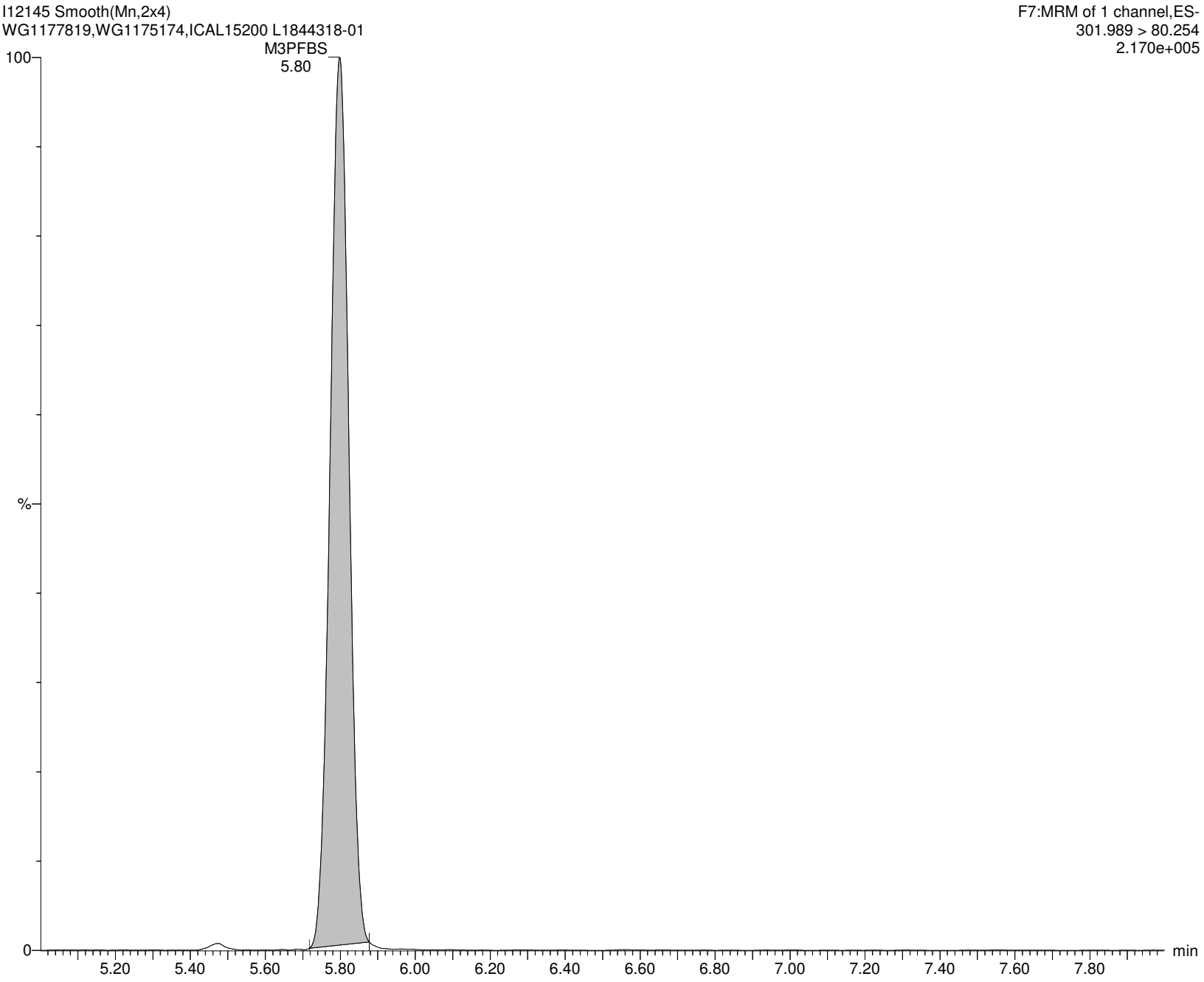

all concentration units in (ng/mL)

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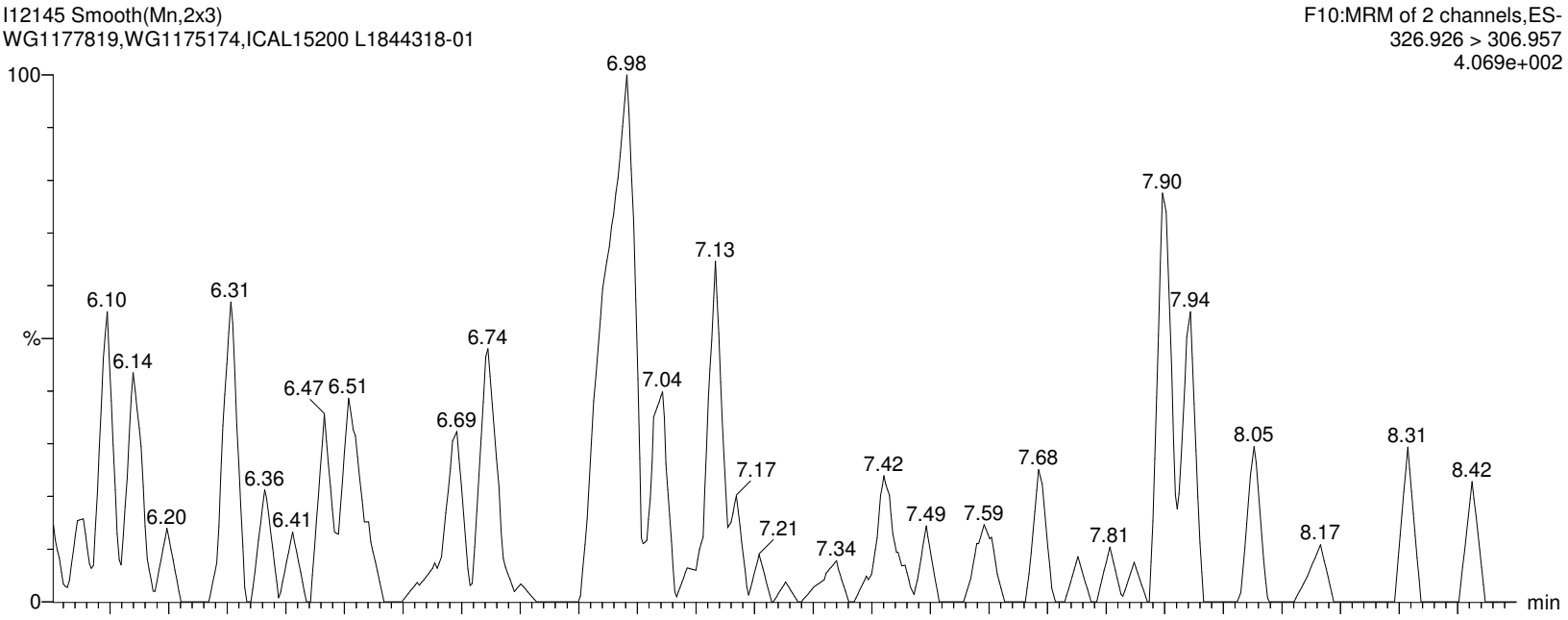
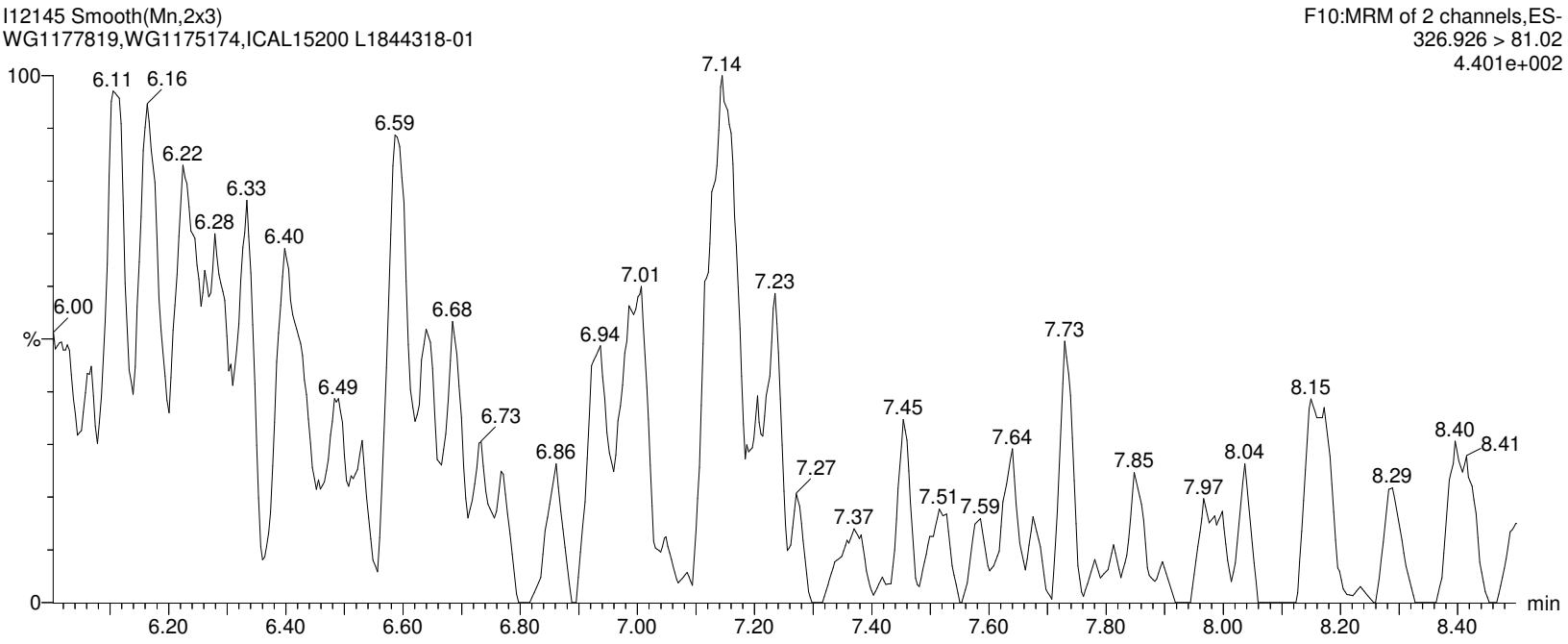
4:2FTS





all concentration units in (ng/mL)

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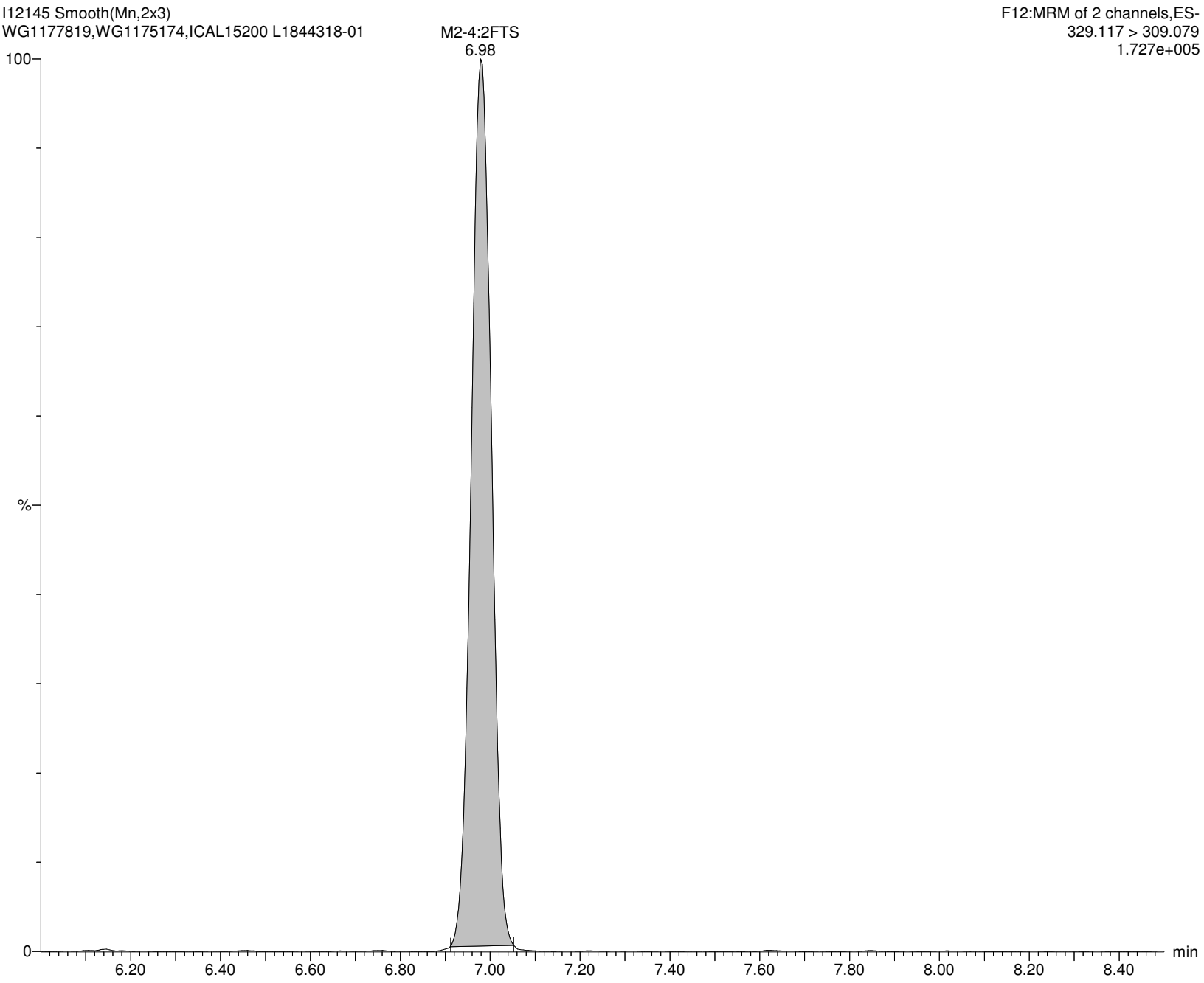

all concentration units in (ng/mL)

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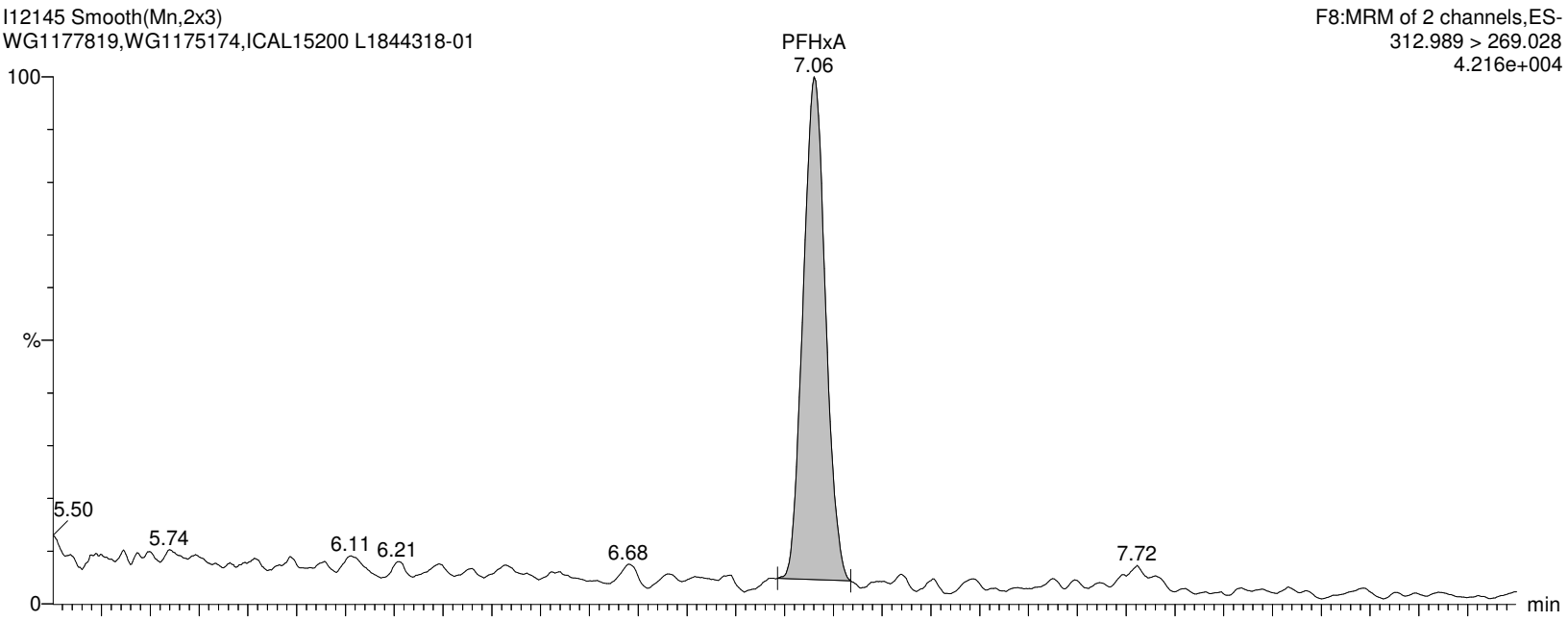
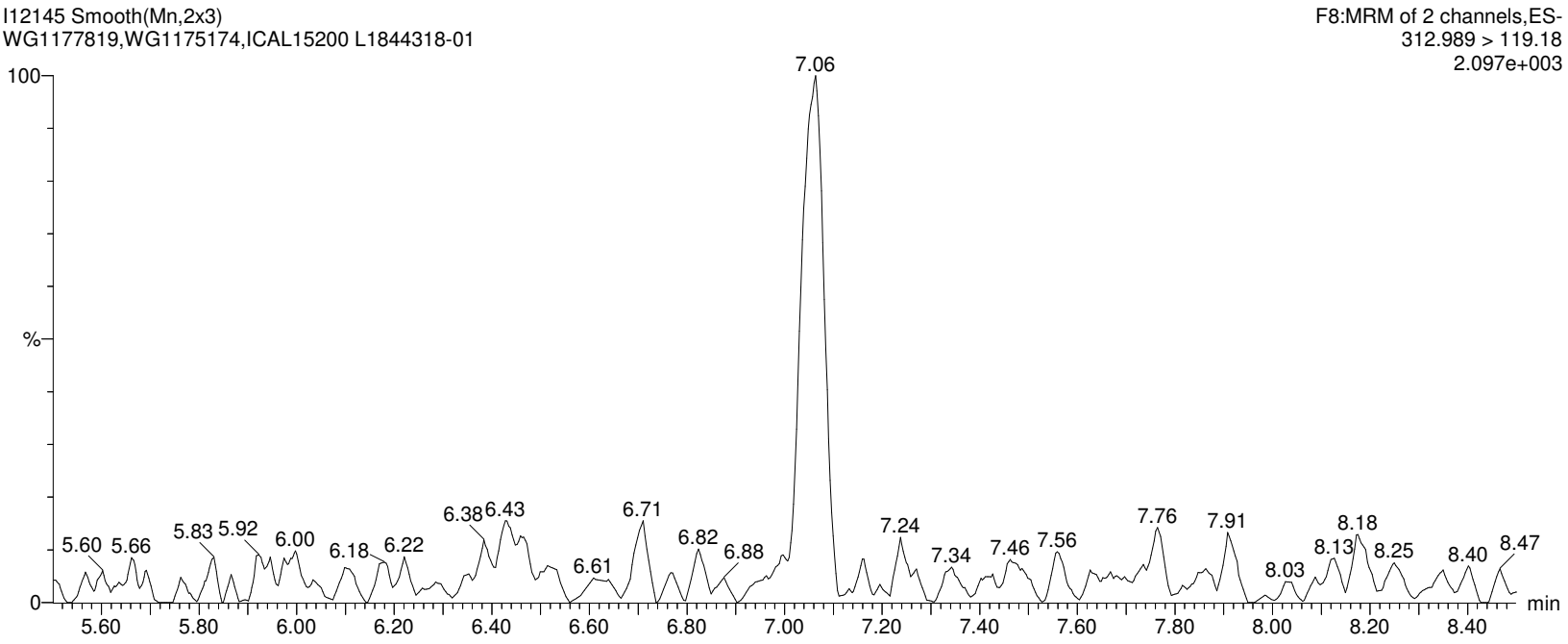
PFHxA





all concentration units in (ng/mL)

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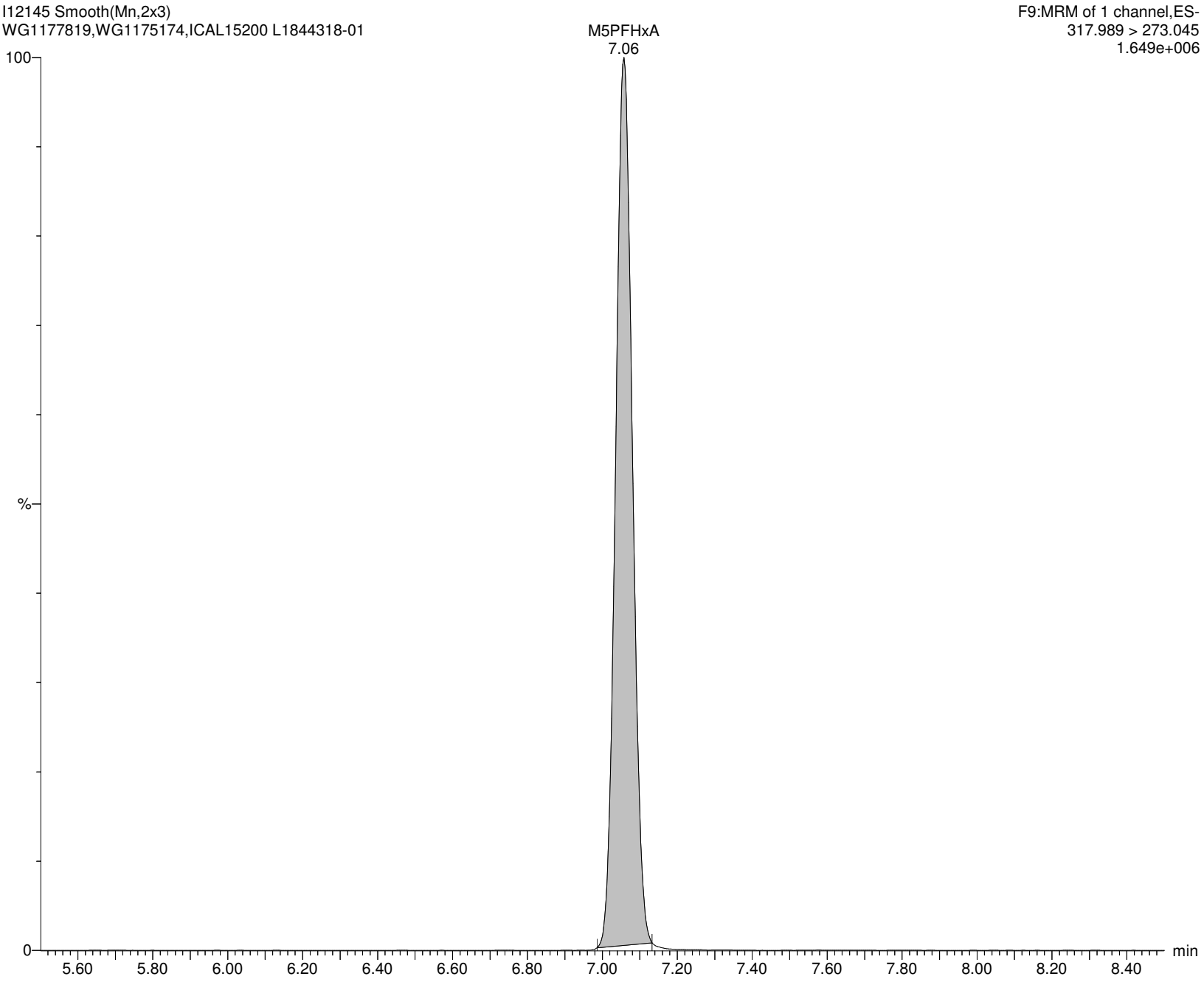

all concentration units in (ng/mL)

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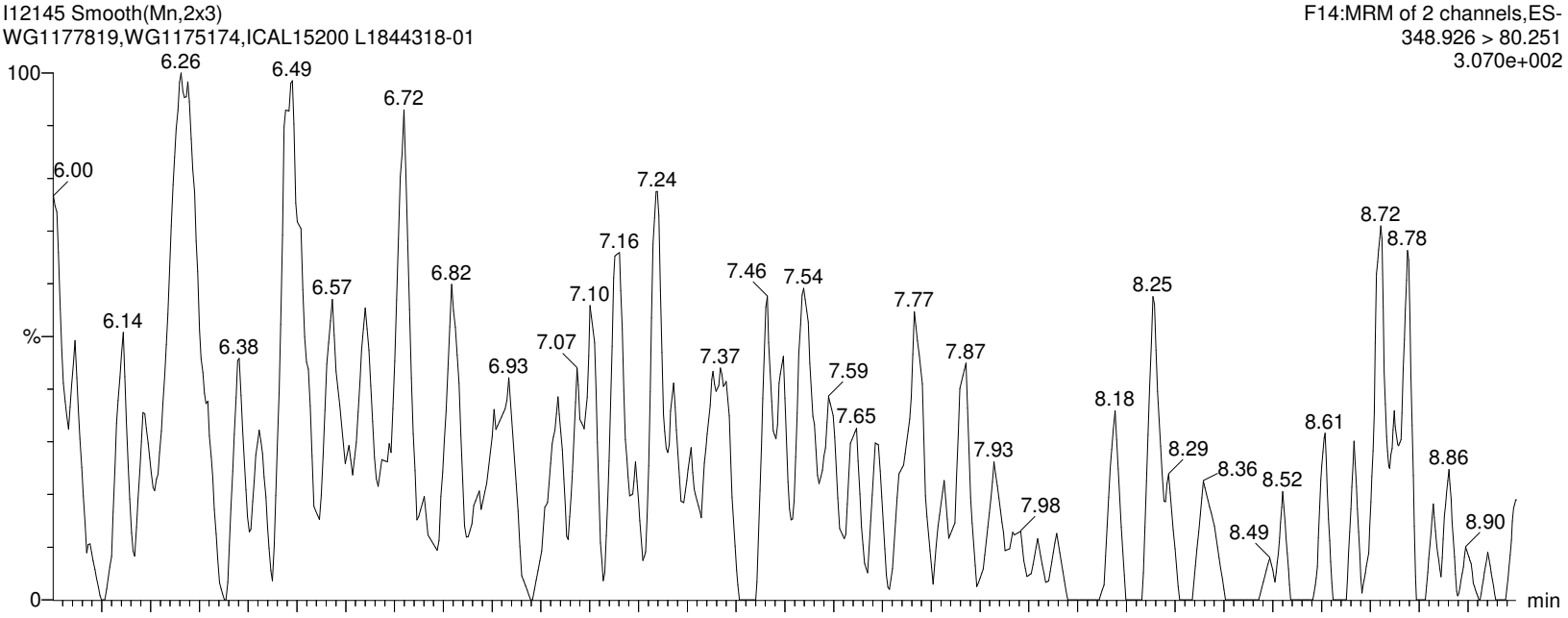

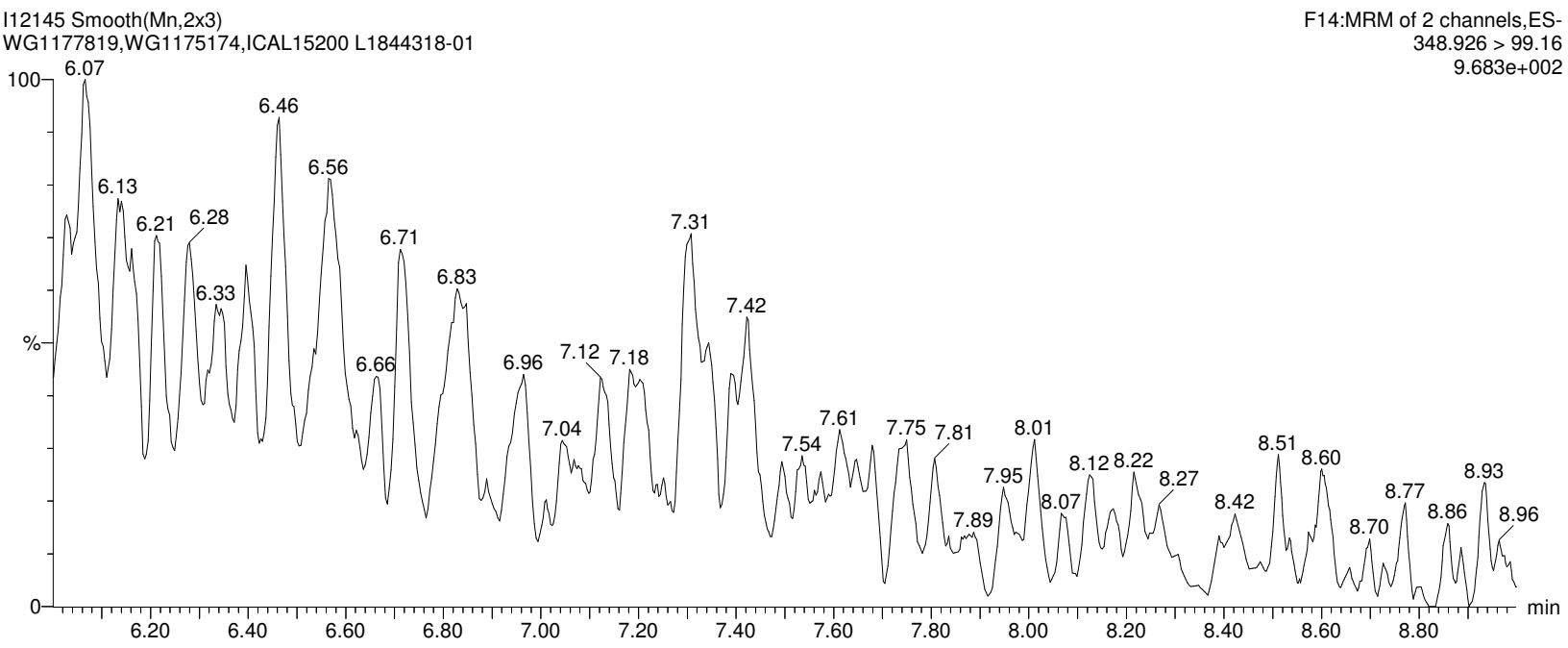

all concentration units in (ng/mL)

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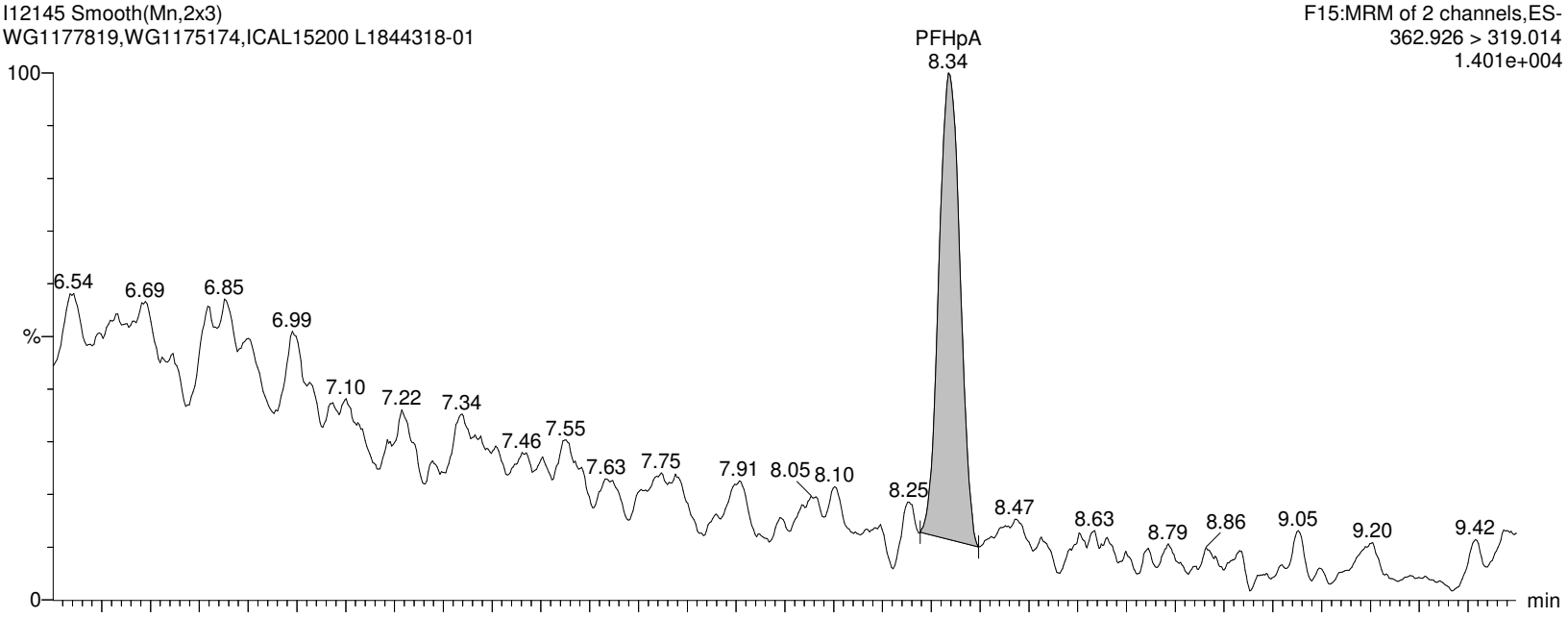

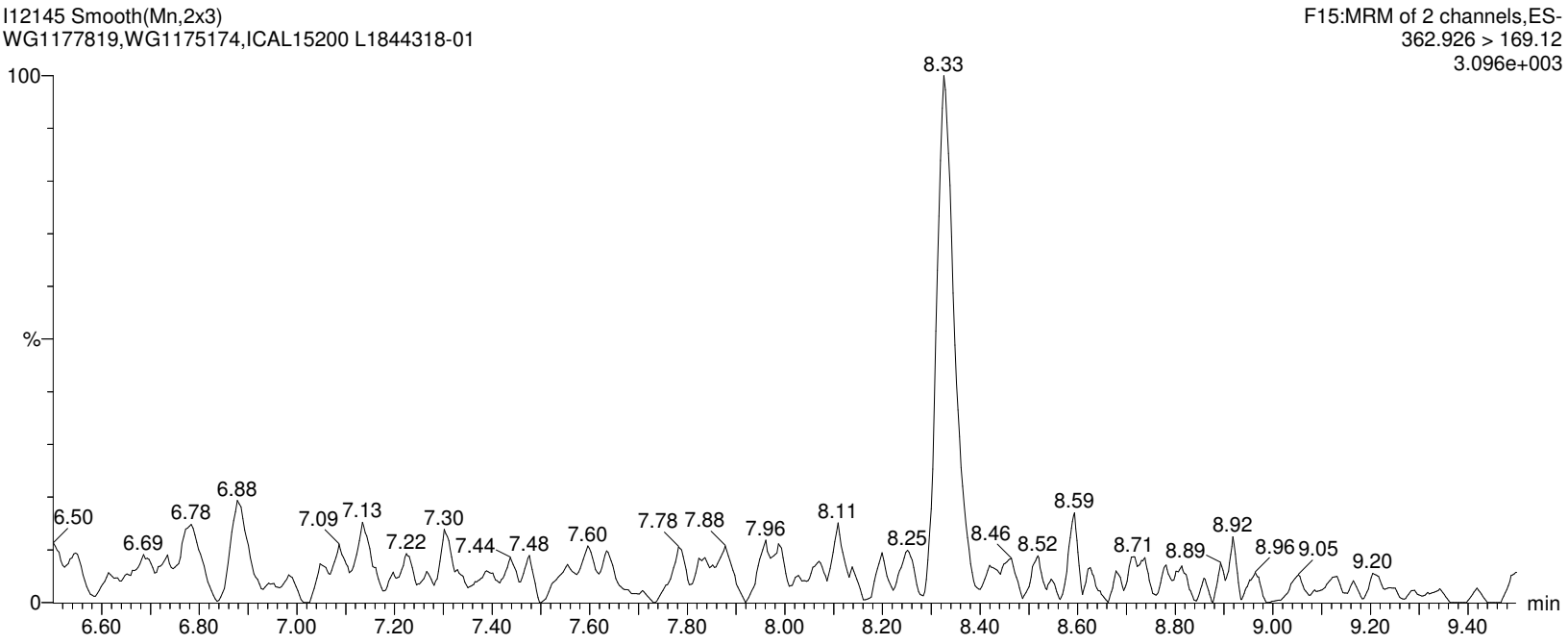

all concentration units in (ng/mL)

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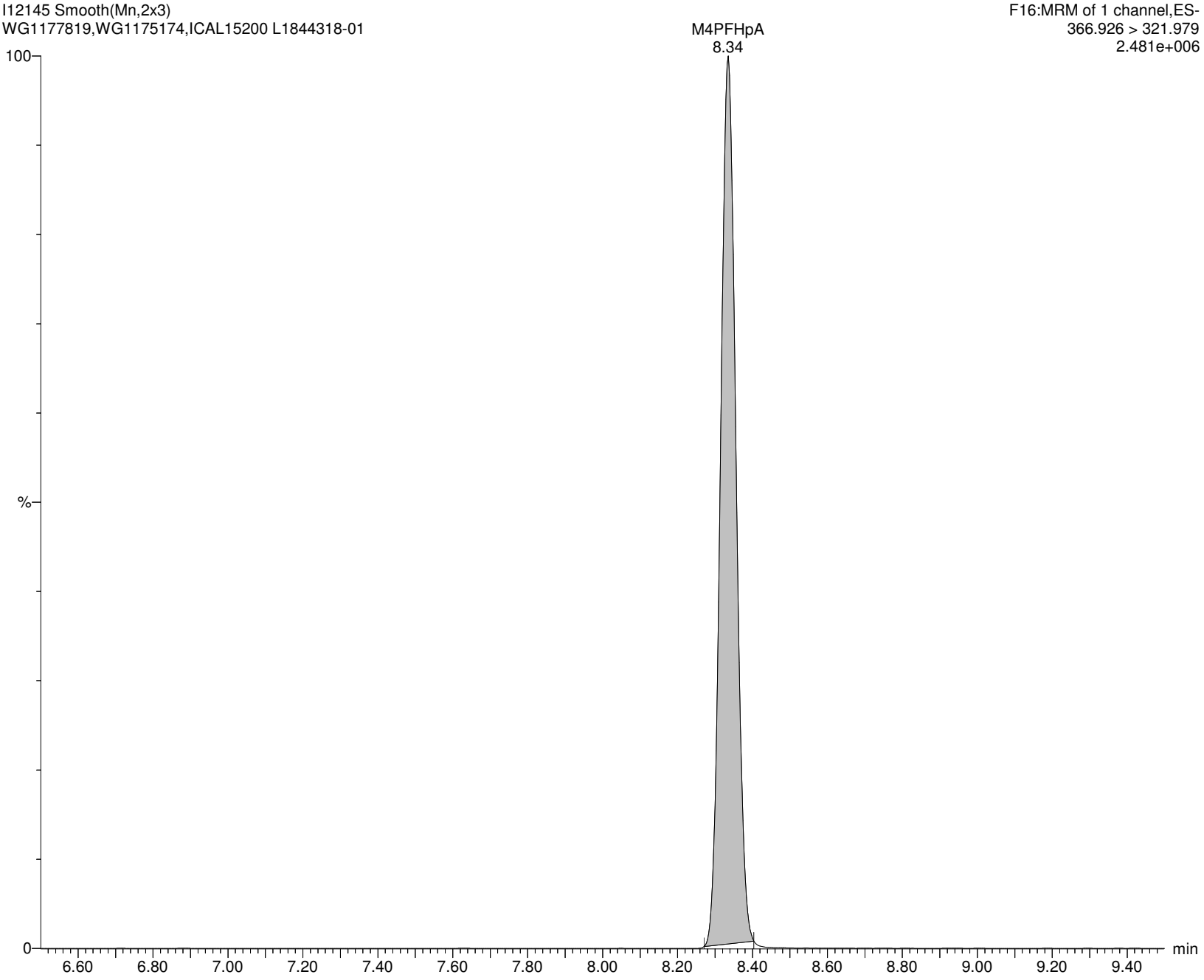

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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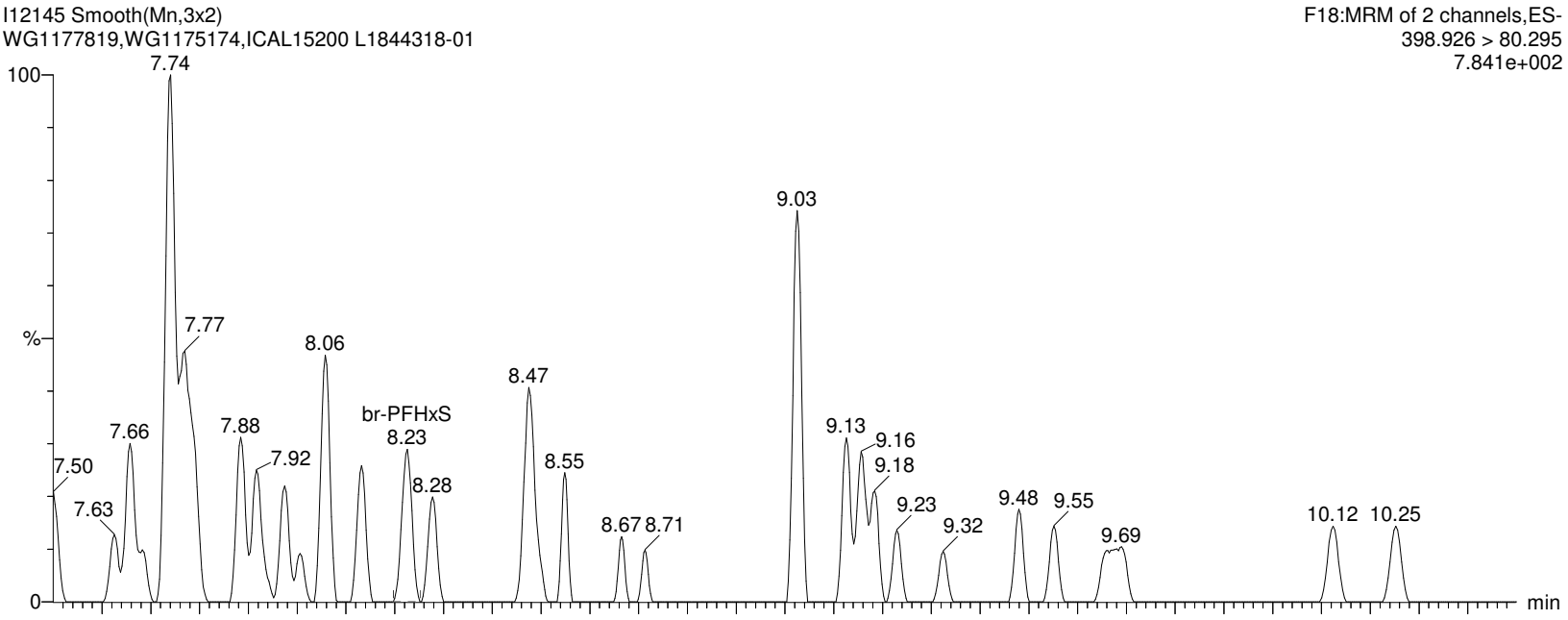

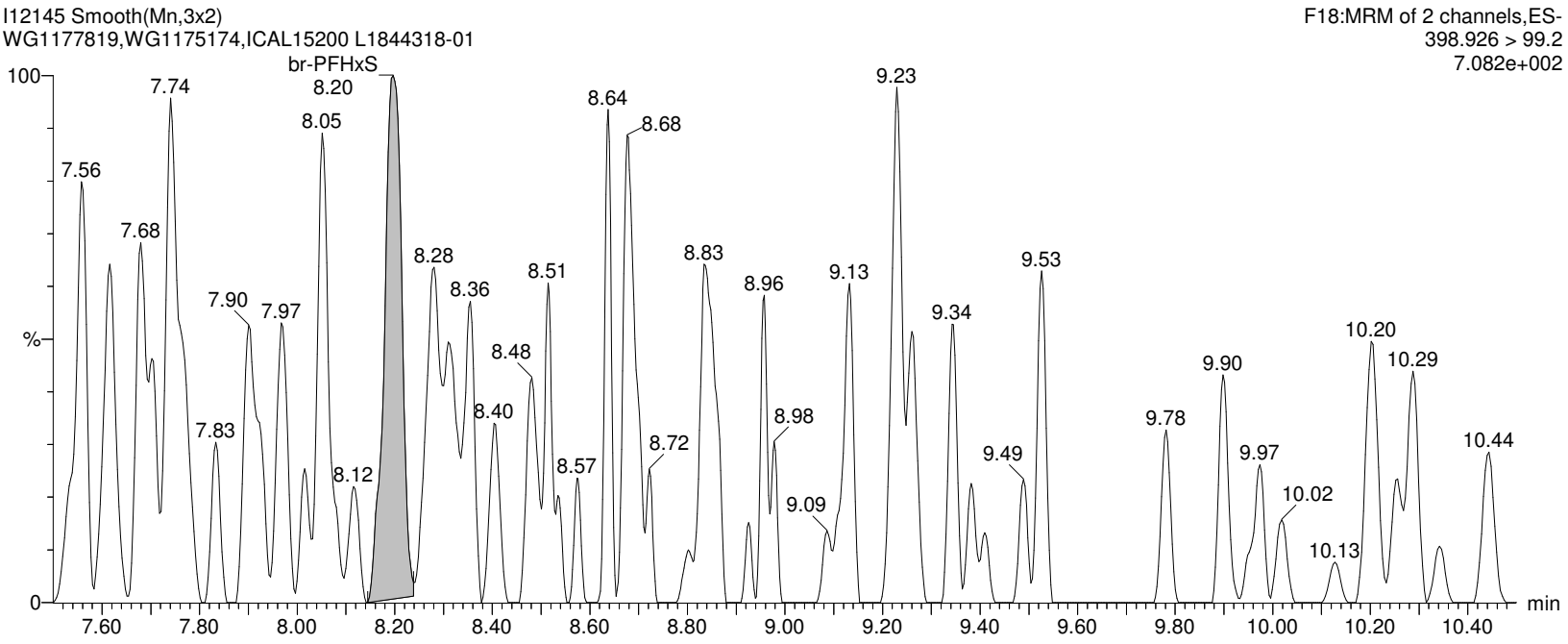

all concentration units in (ng/mL)

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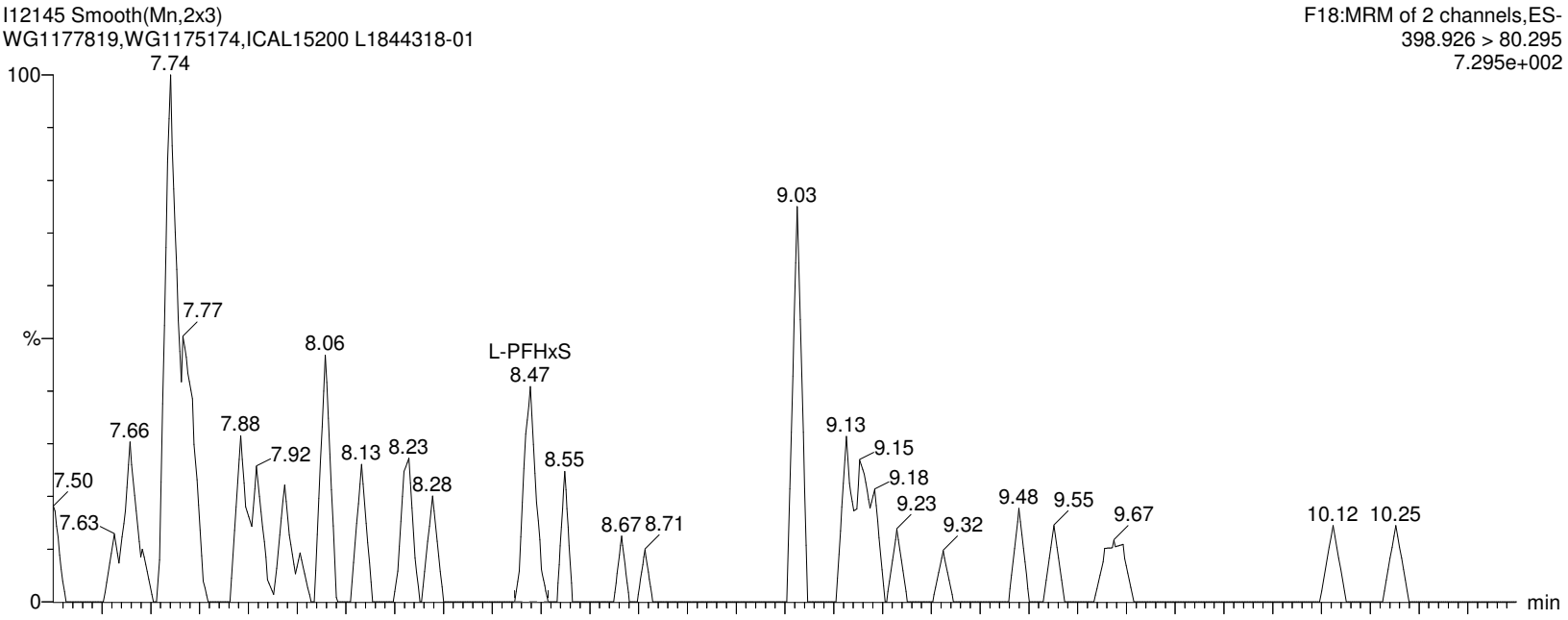
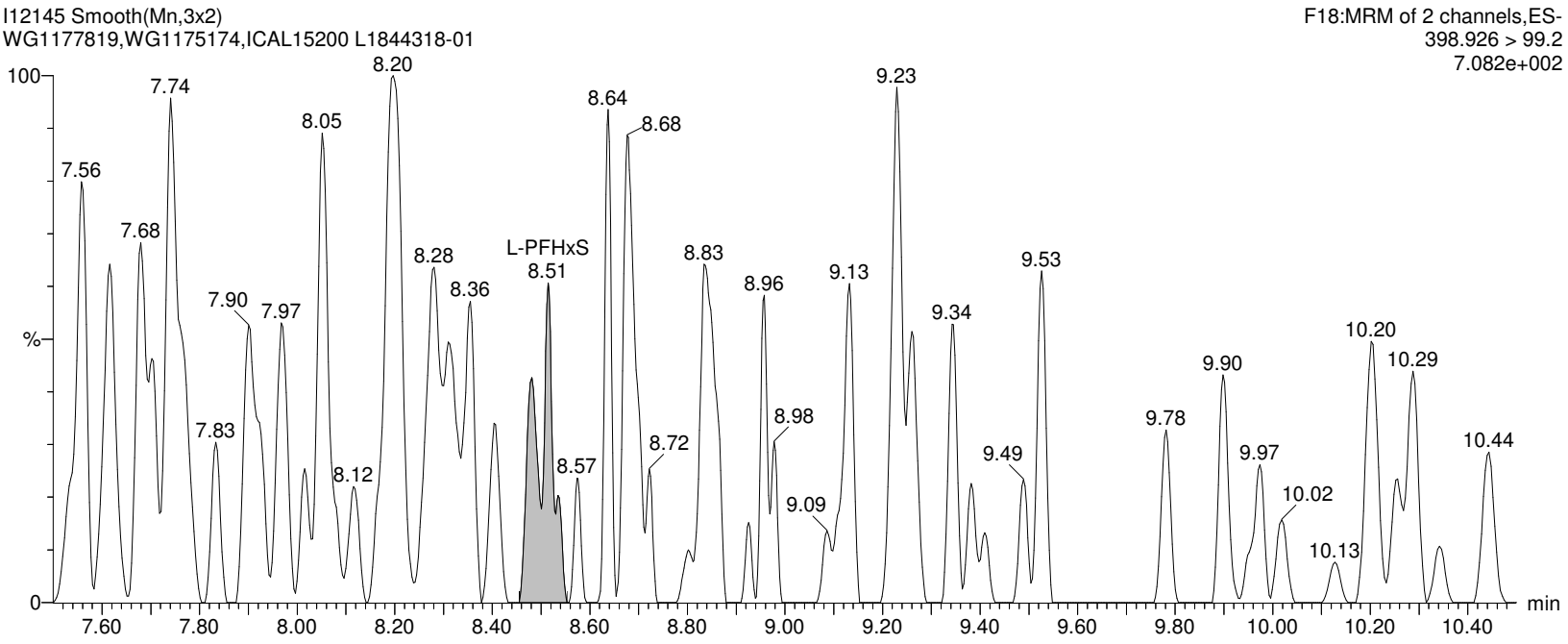
L-PFHxS





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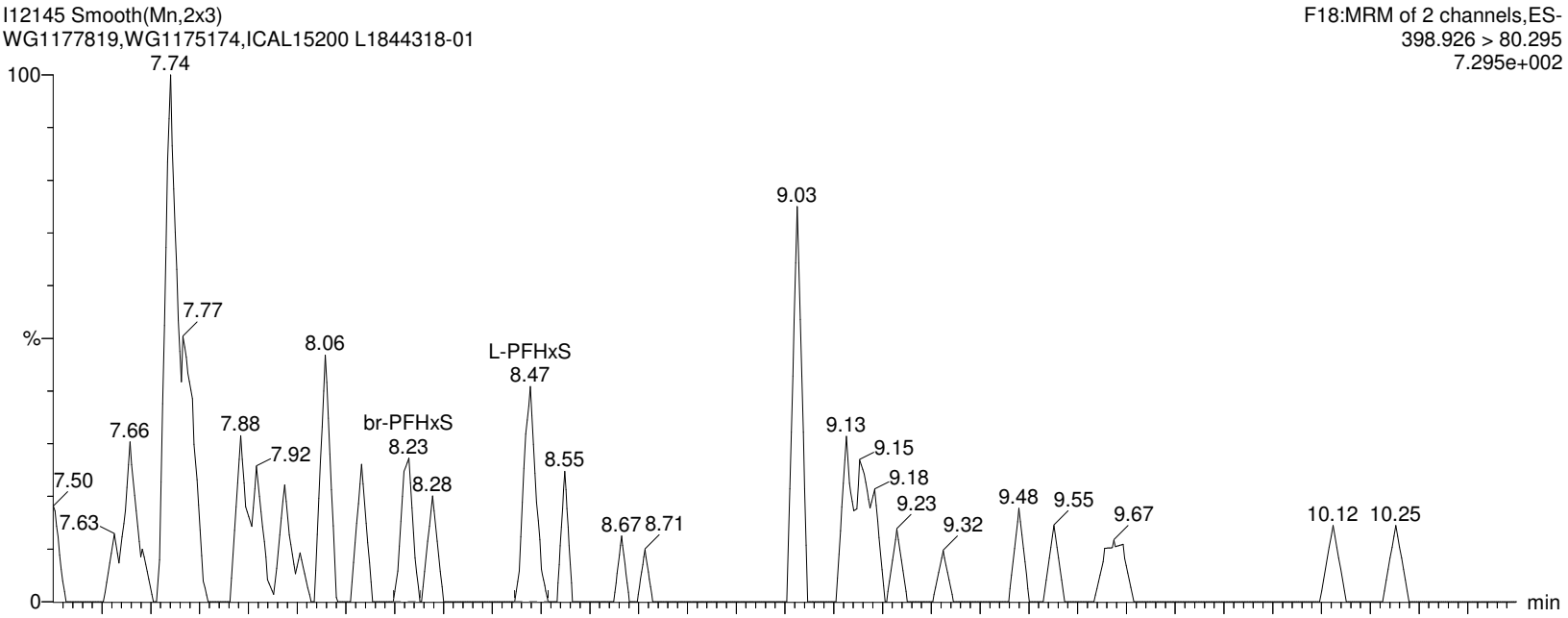

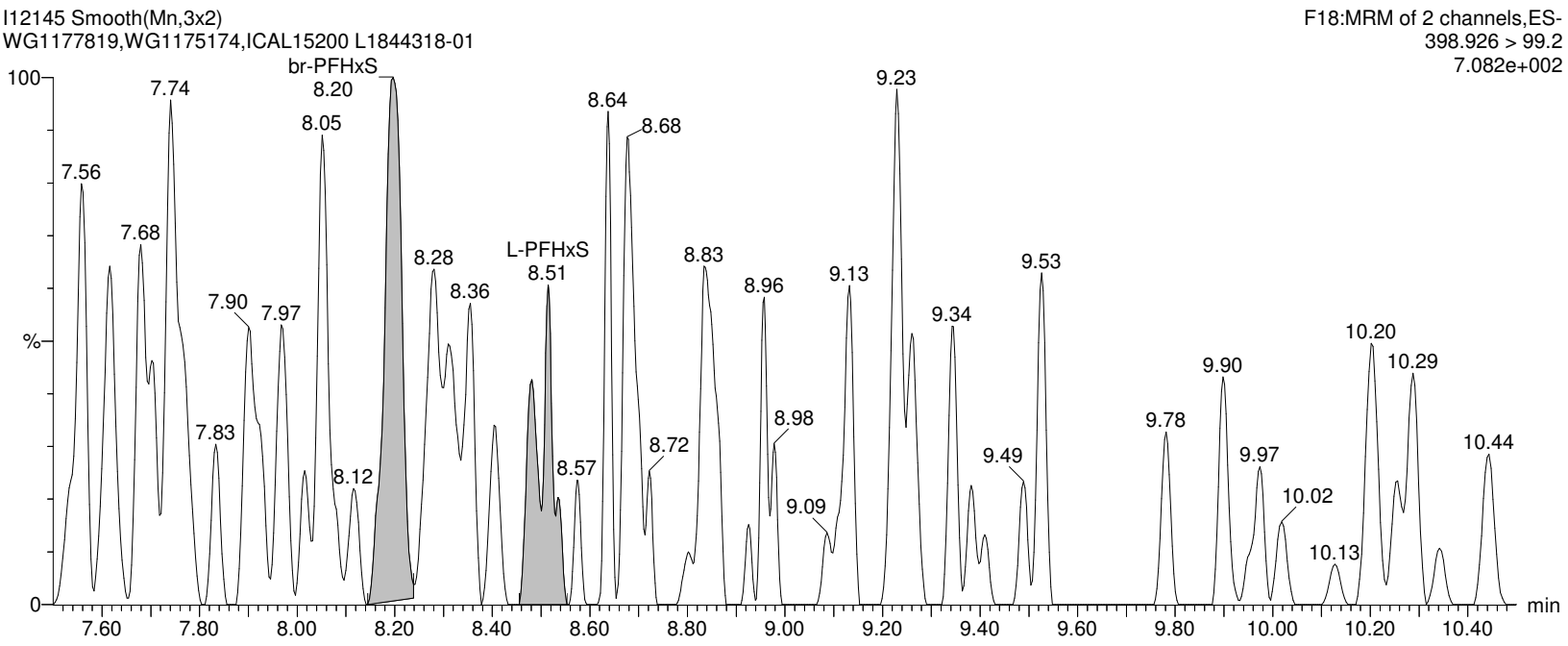

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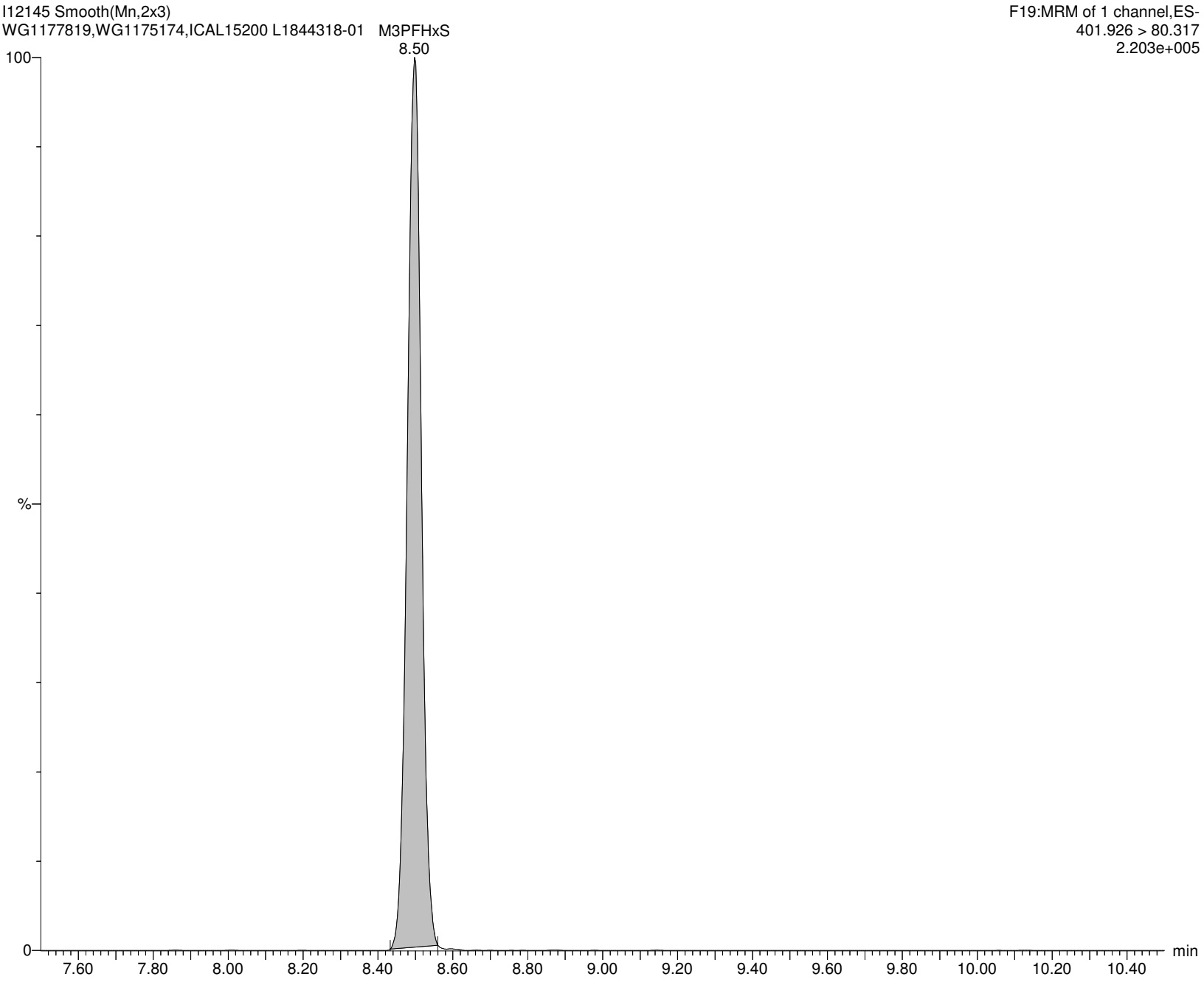

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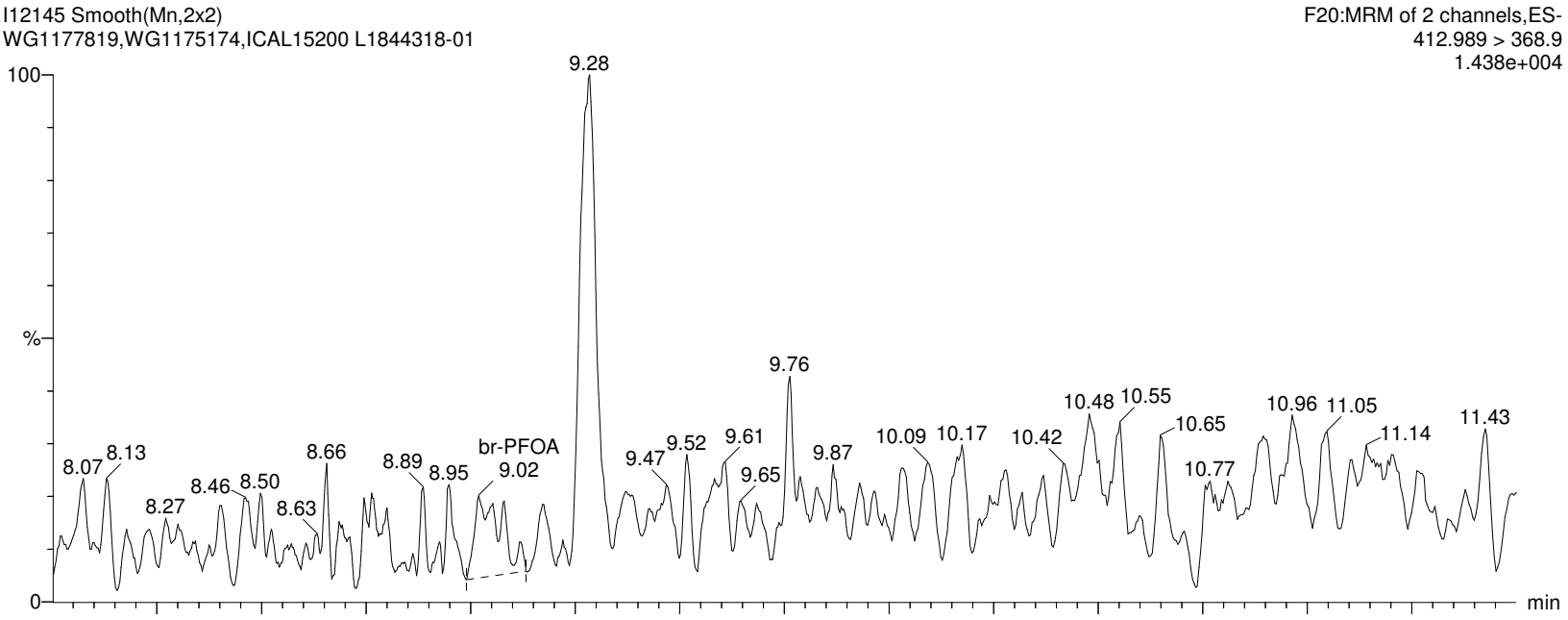

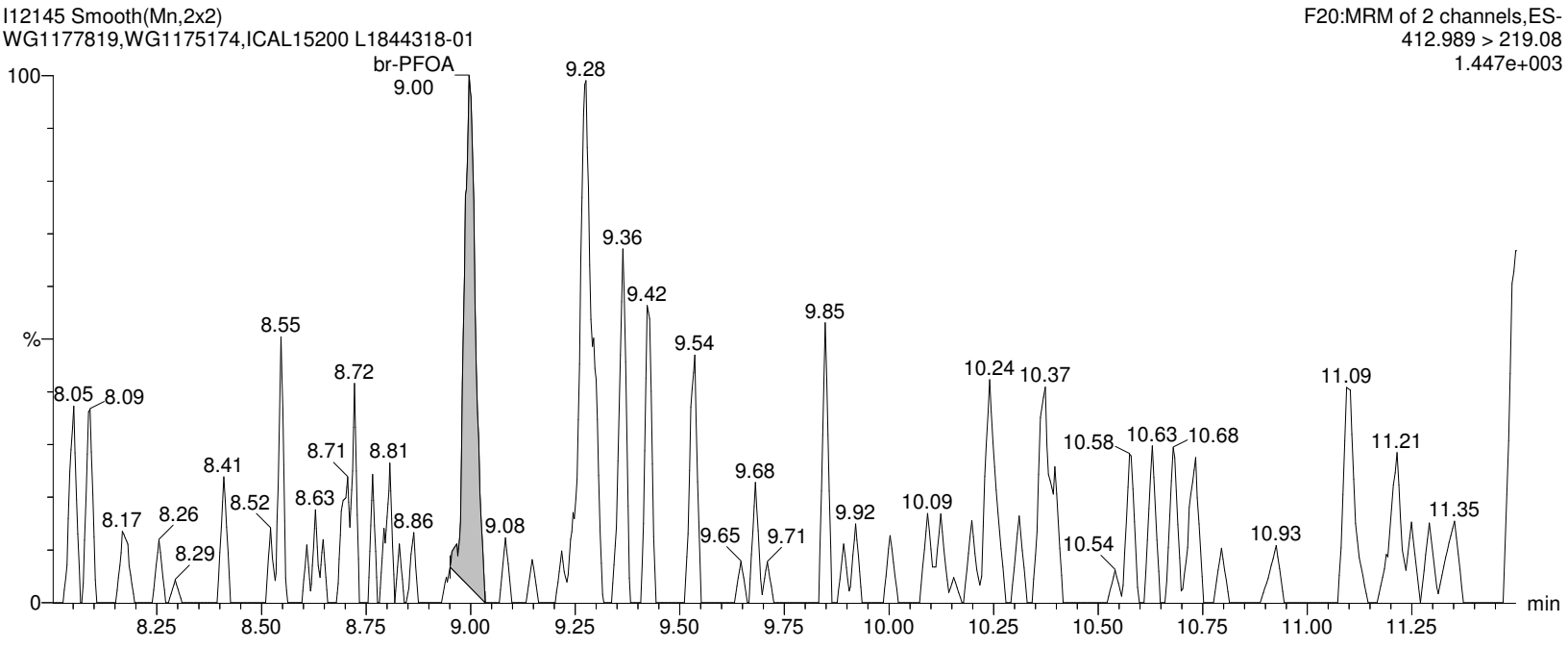

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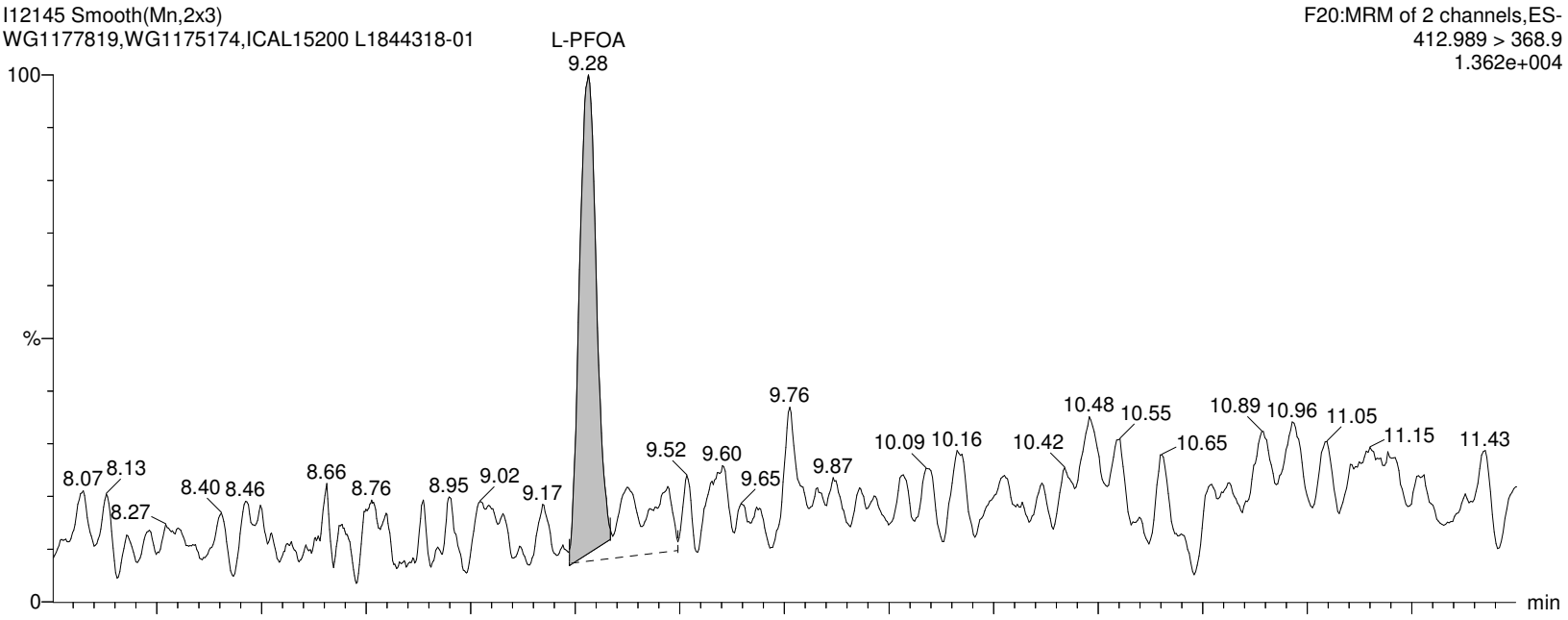
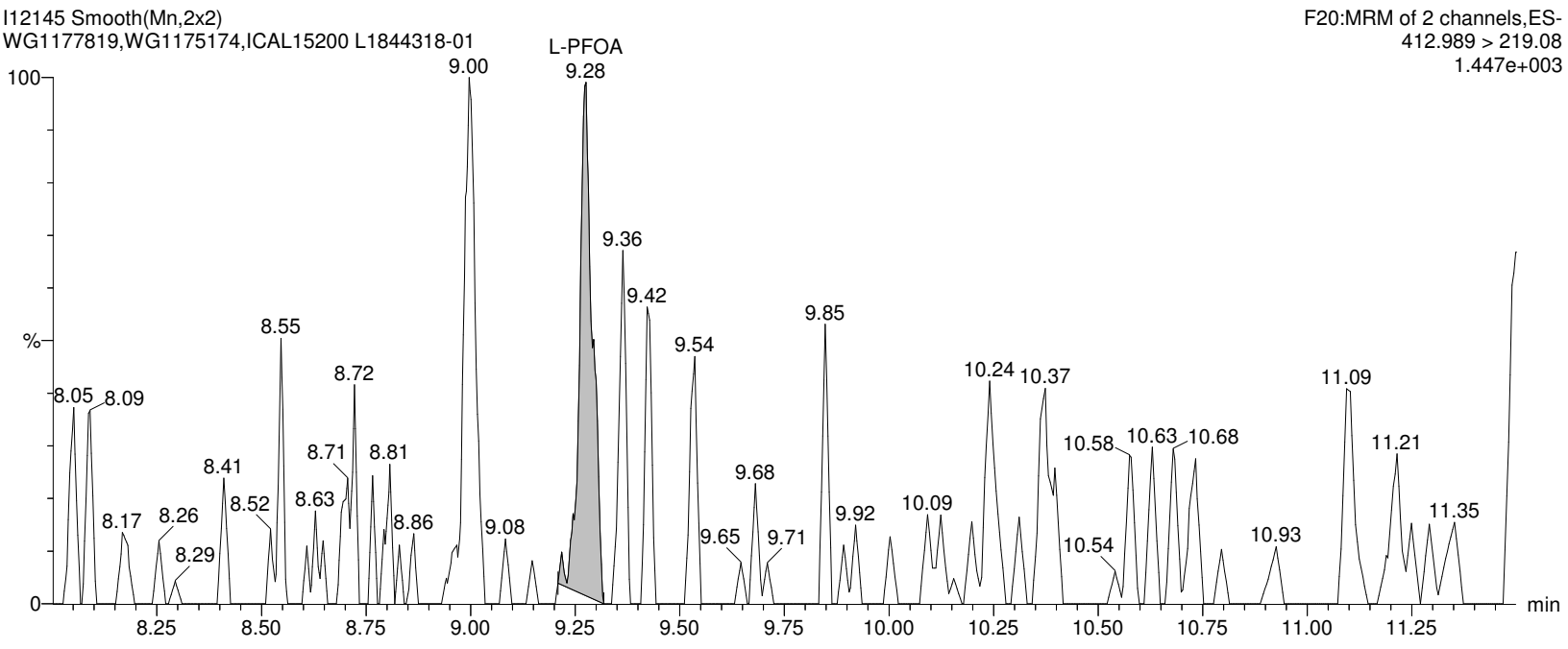
L-PFOA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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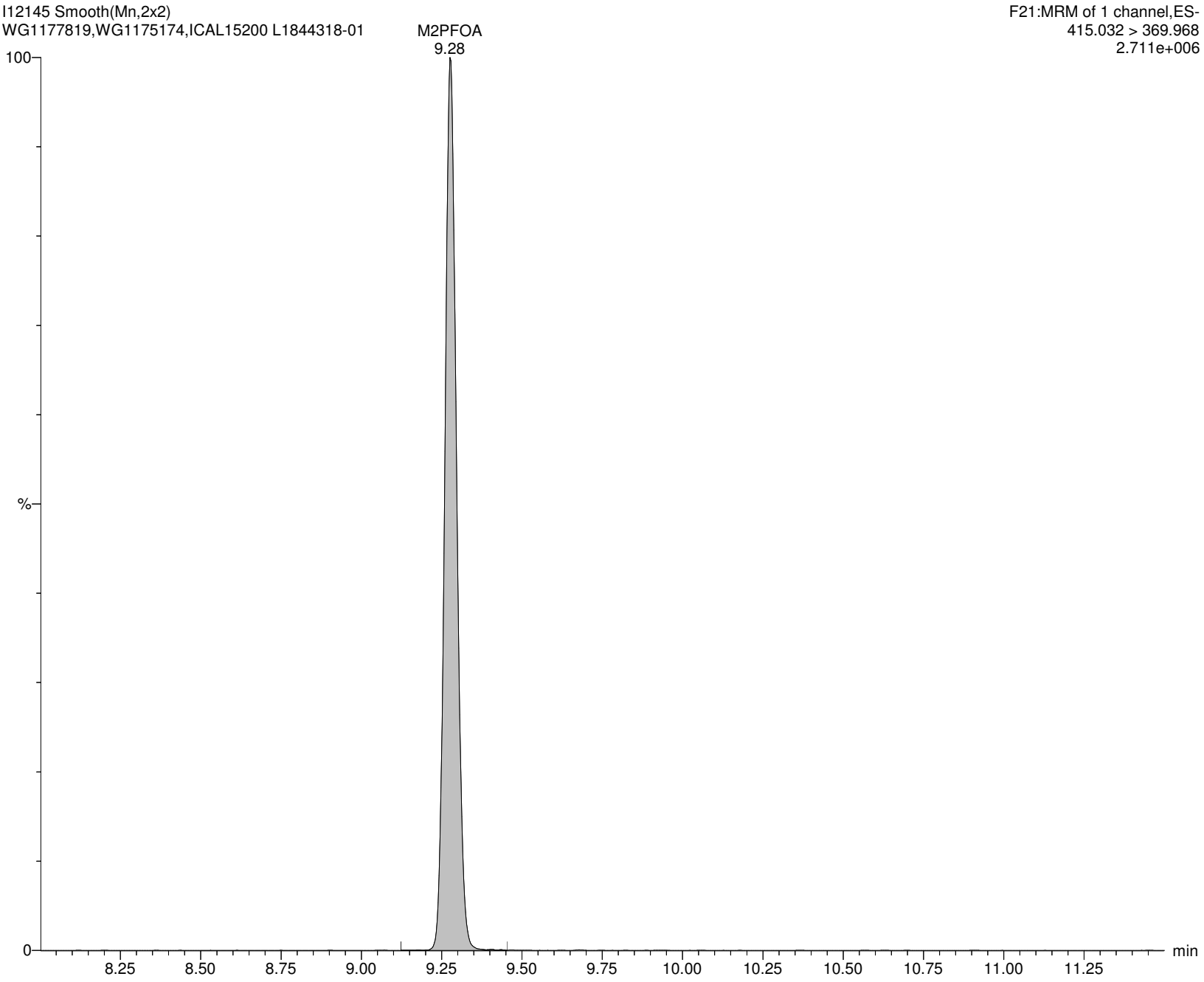

all concentration units in (ng/mL)

Alpha Analytical Inc.
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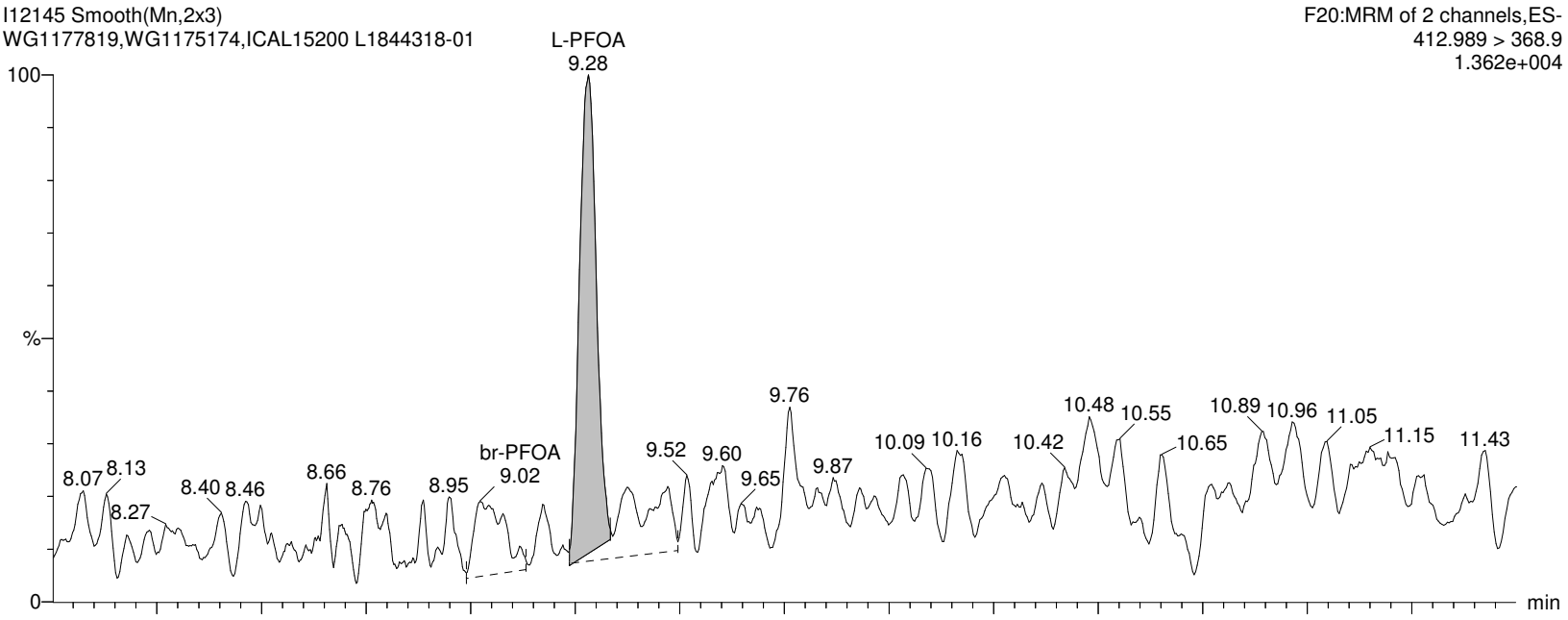

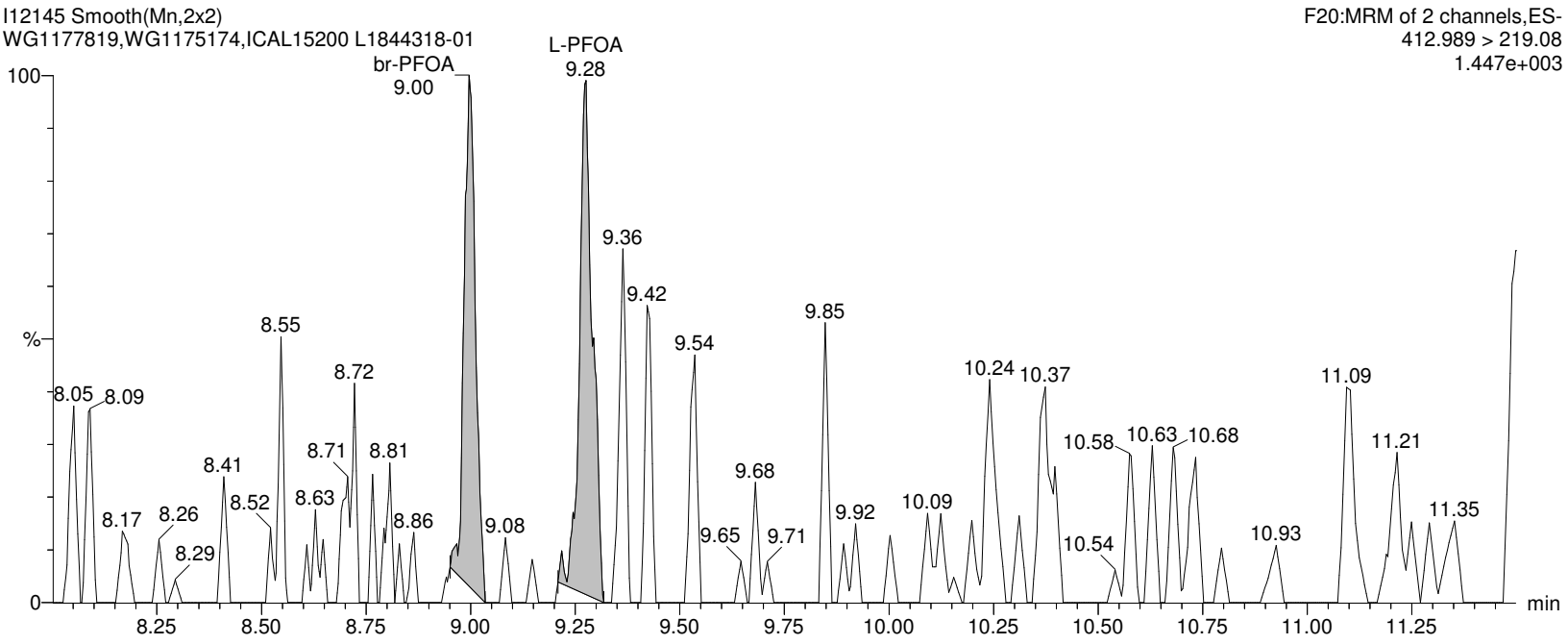

all concentration units in (ng/mL)

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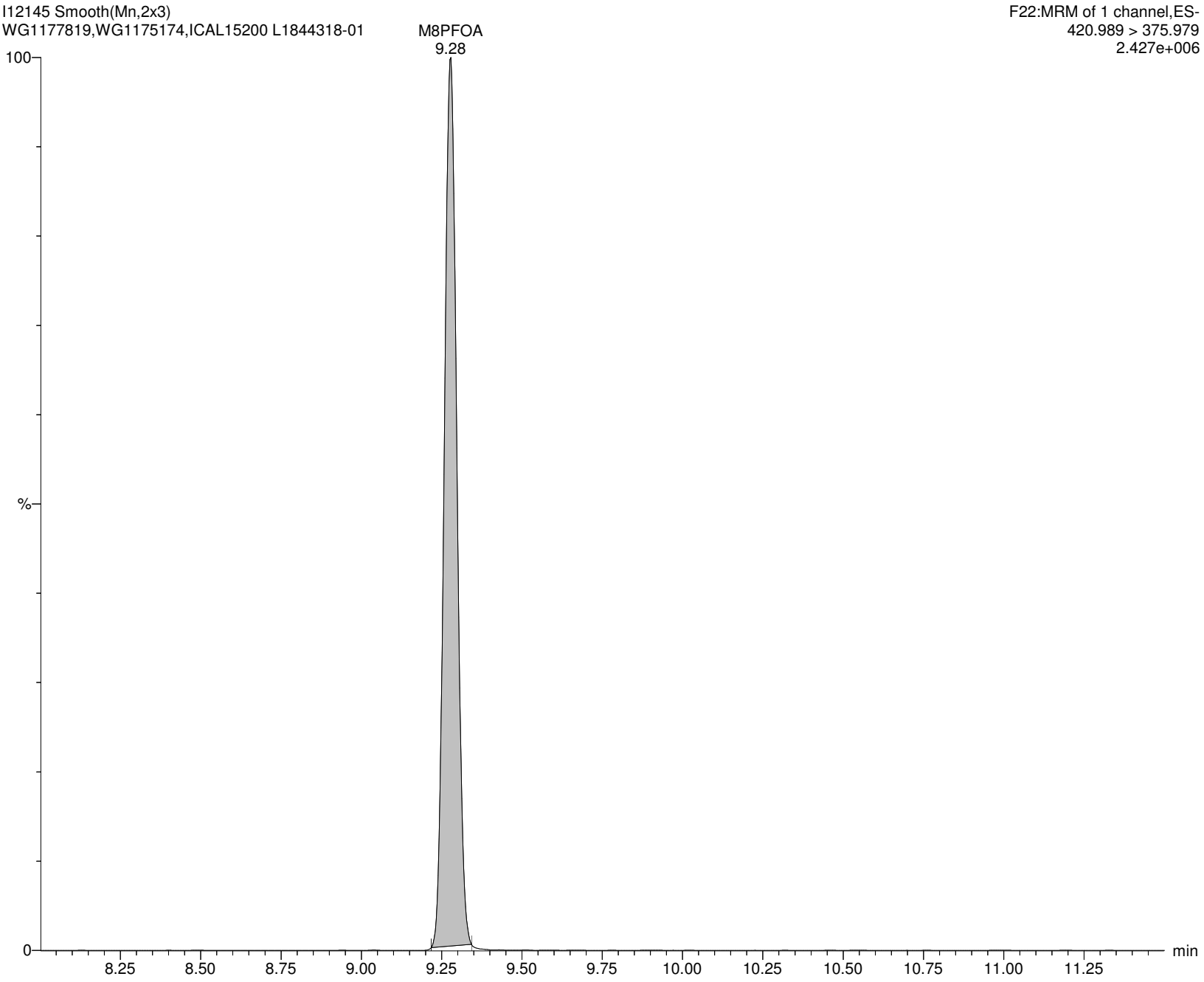

all concentration units in (ng/mL)

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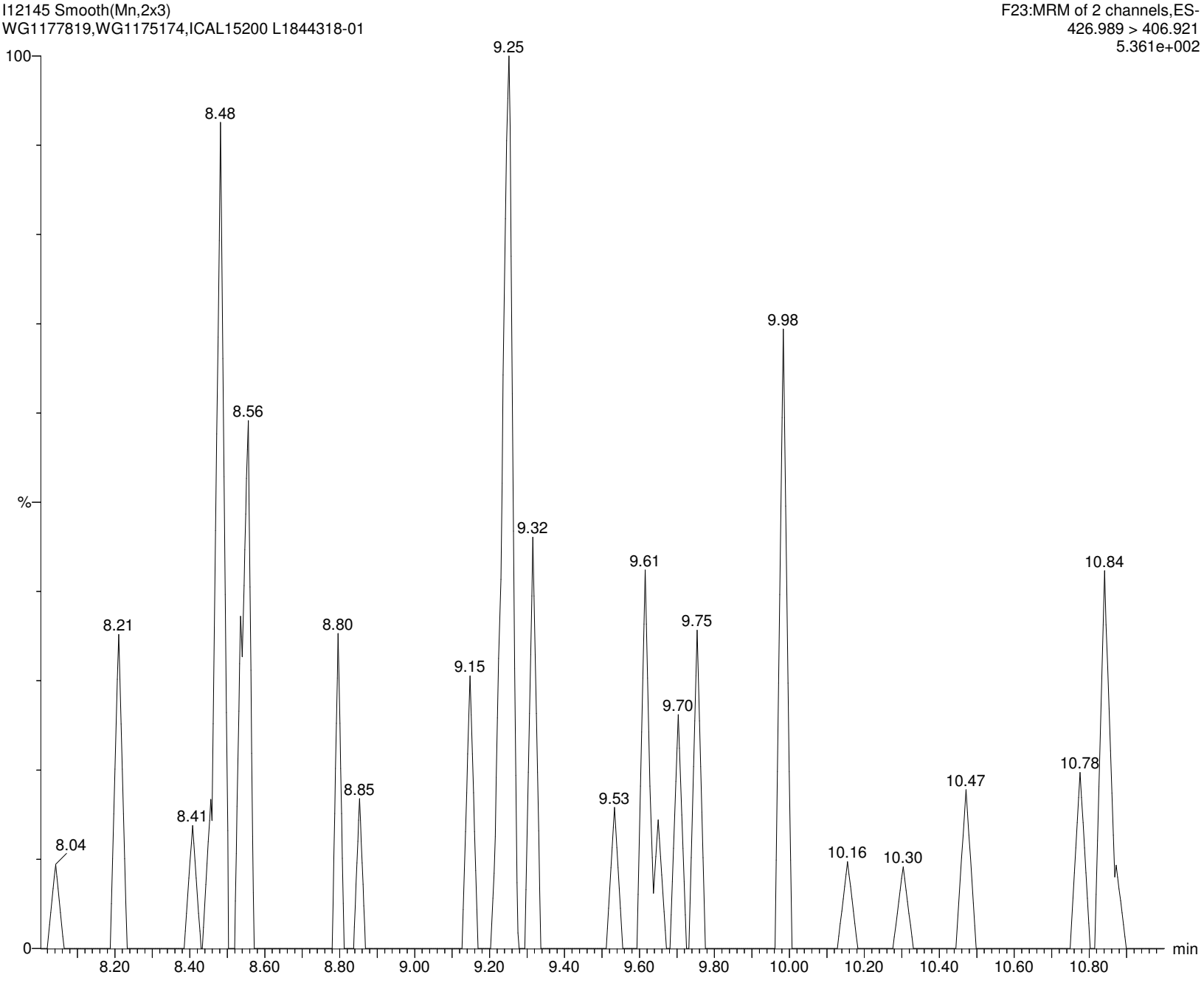

all concentration units in (ng/mL)

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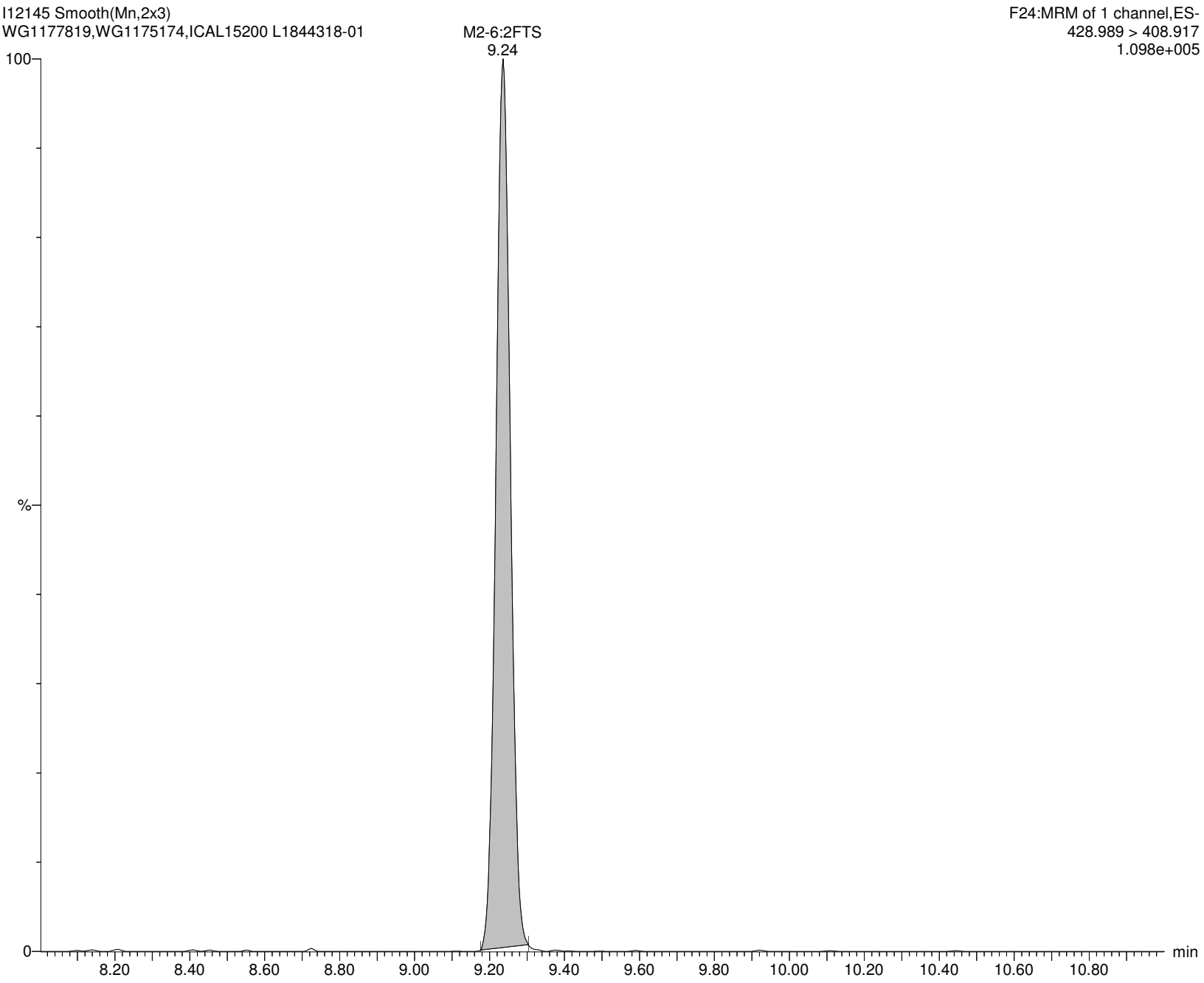

all concentration units in (ng/mL)

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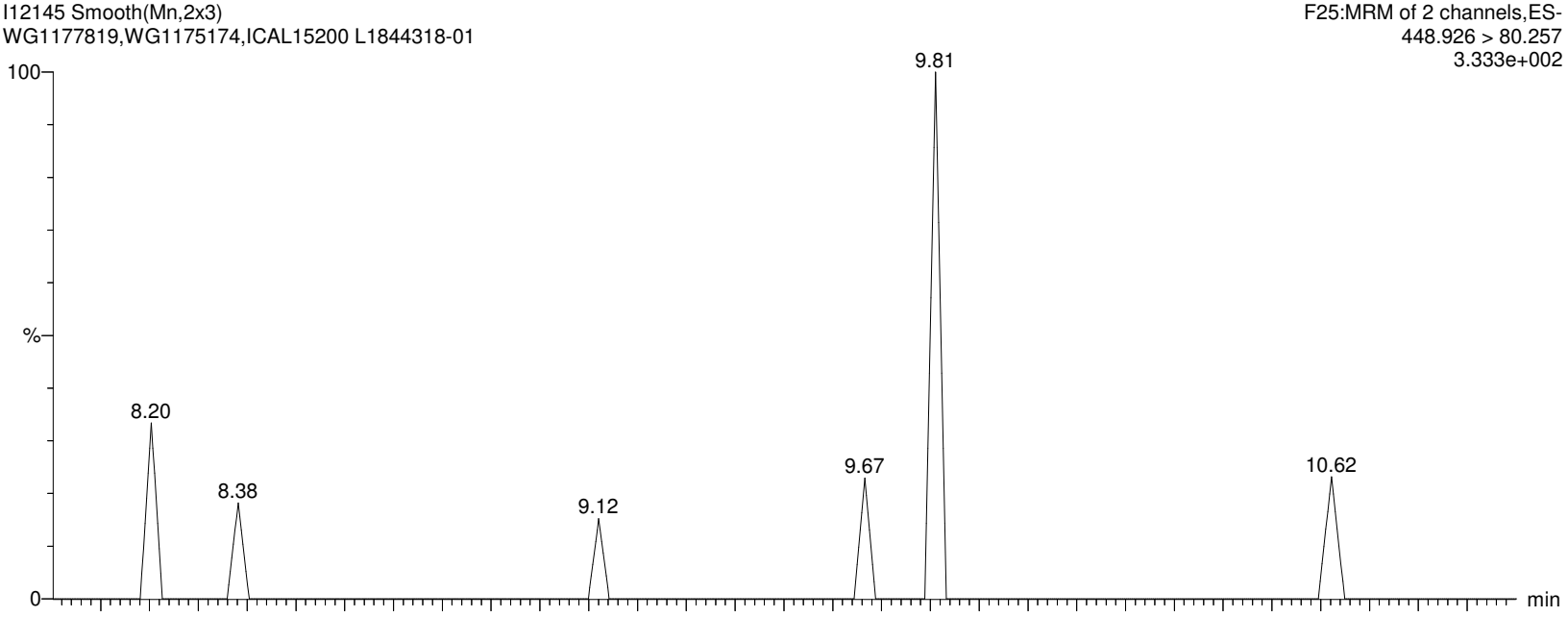

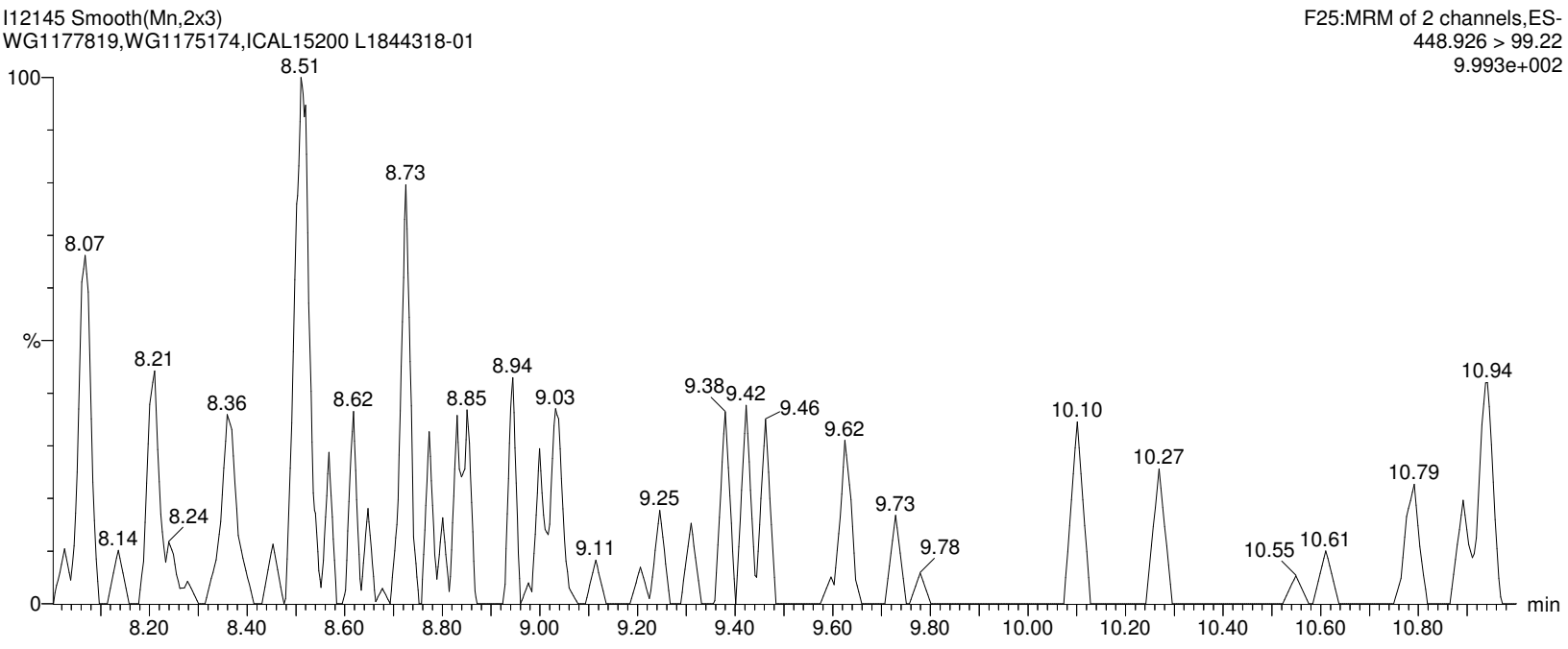

all concentration units in (ng/mL)

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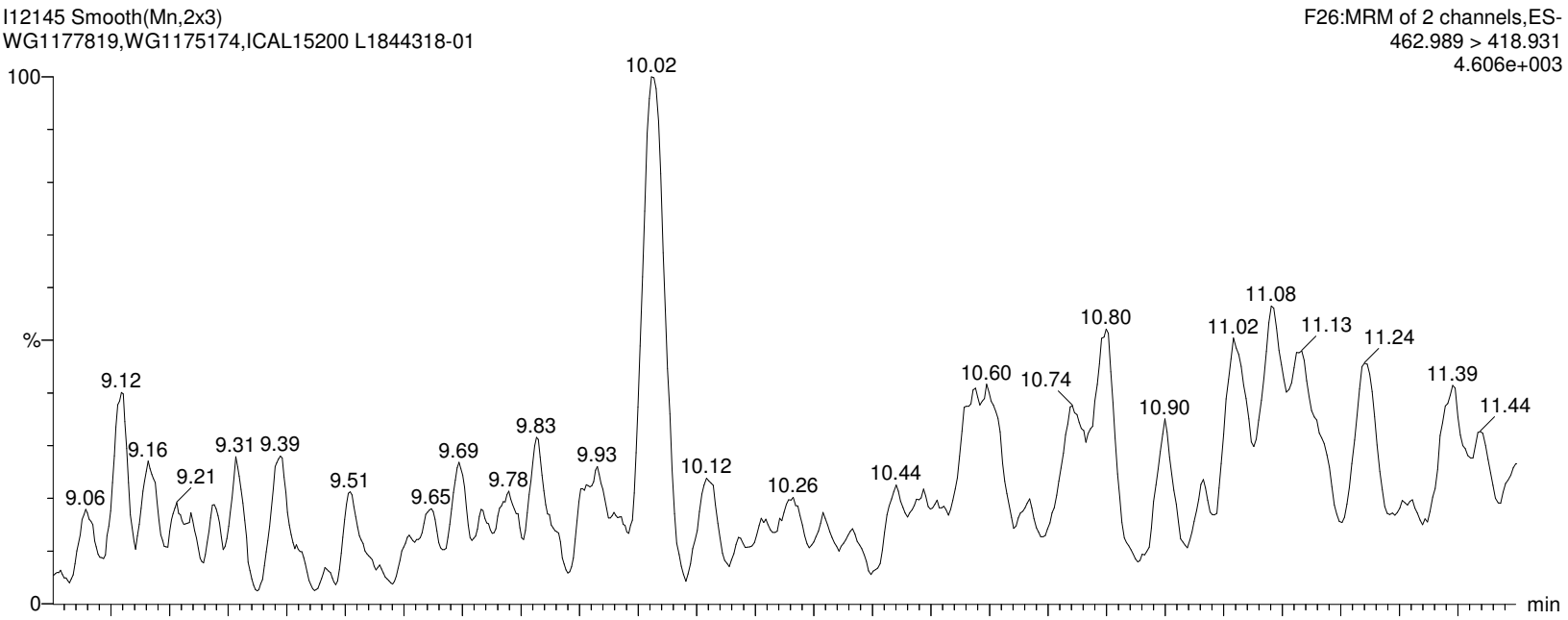

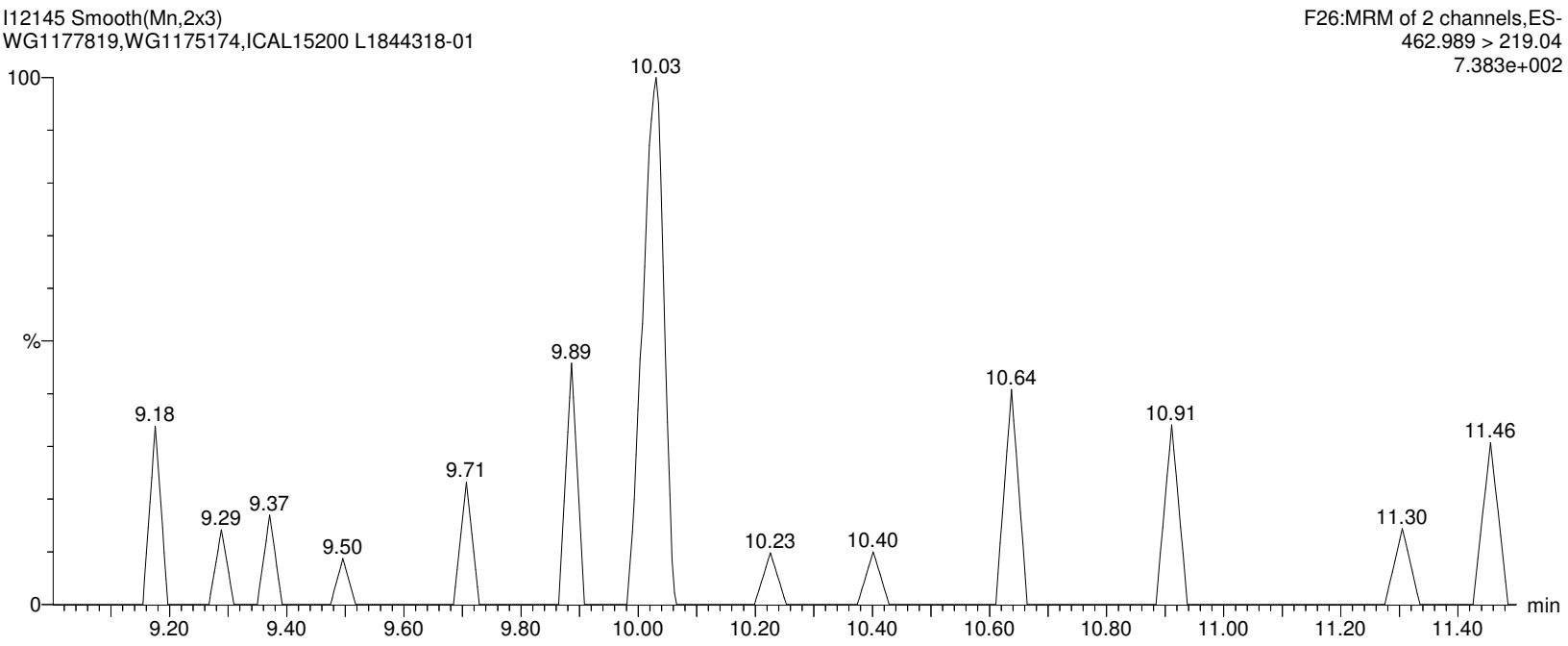

all concentration units in (ng/mL)

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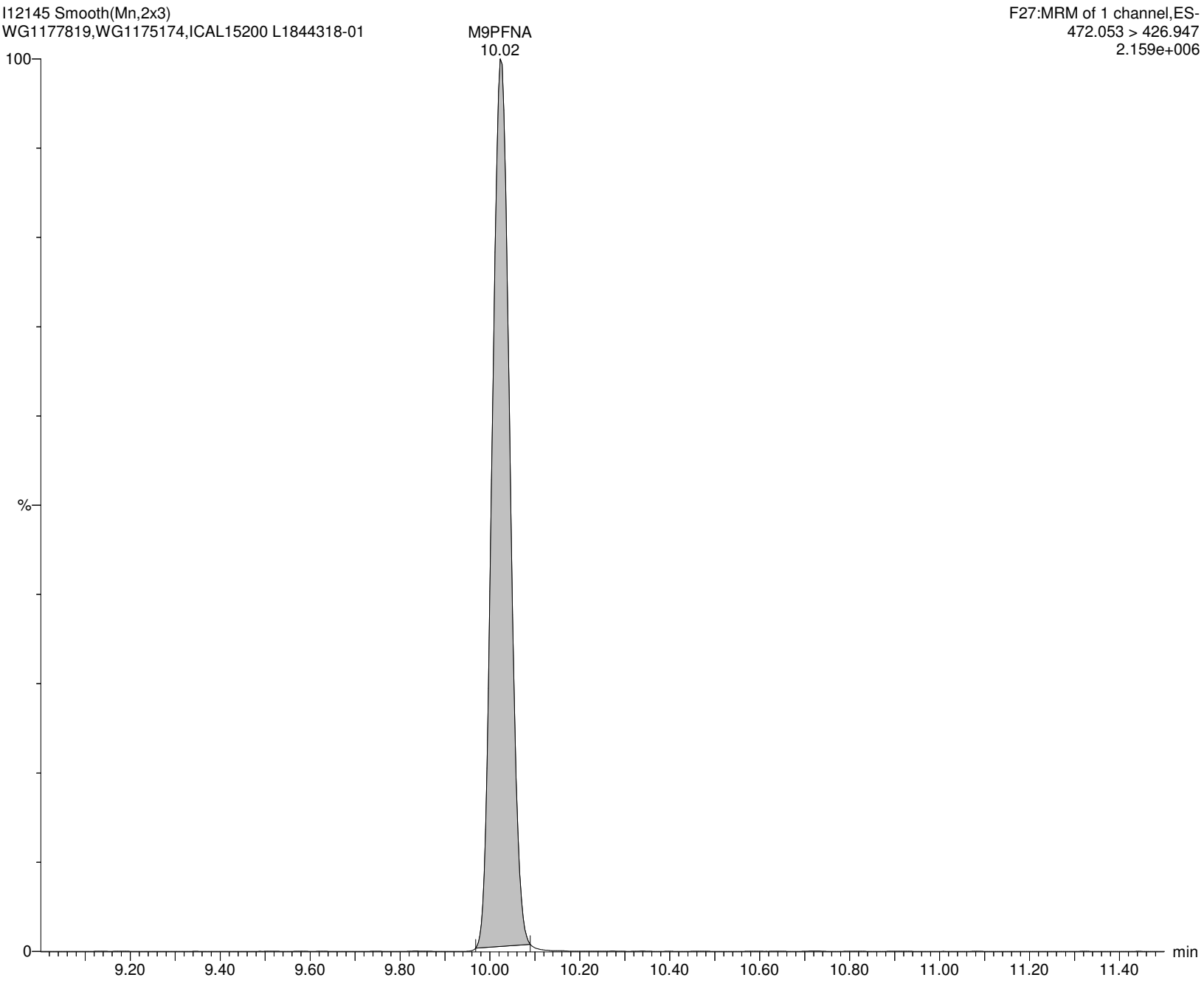

all concentration units in (ng/mL)

Alpha Analytical Inc.
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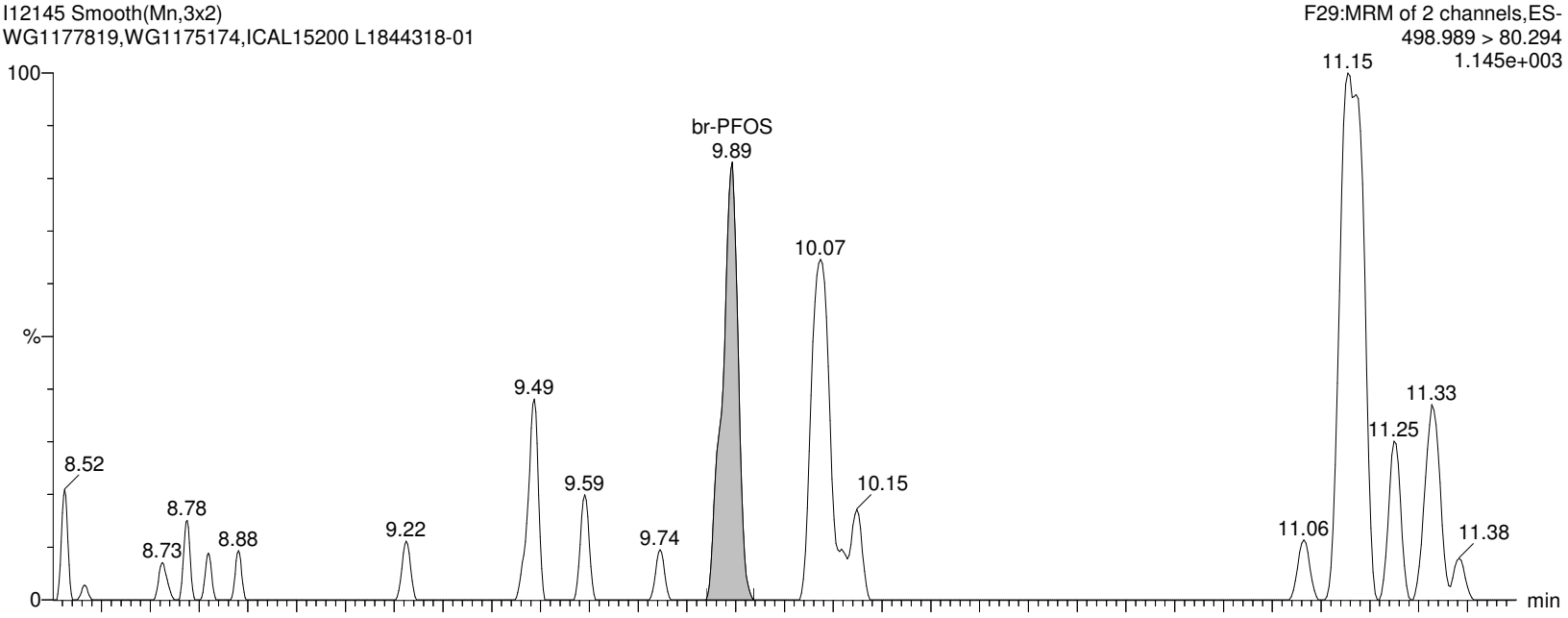

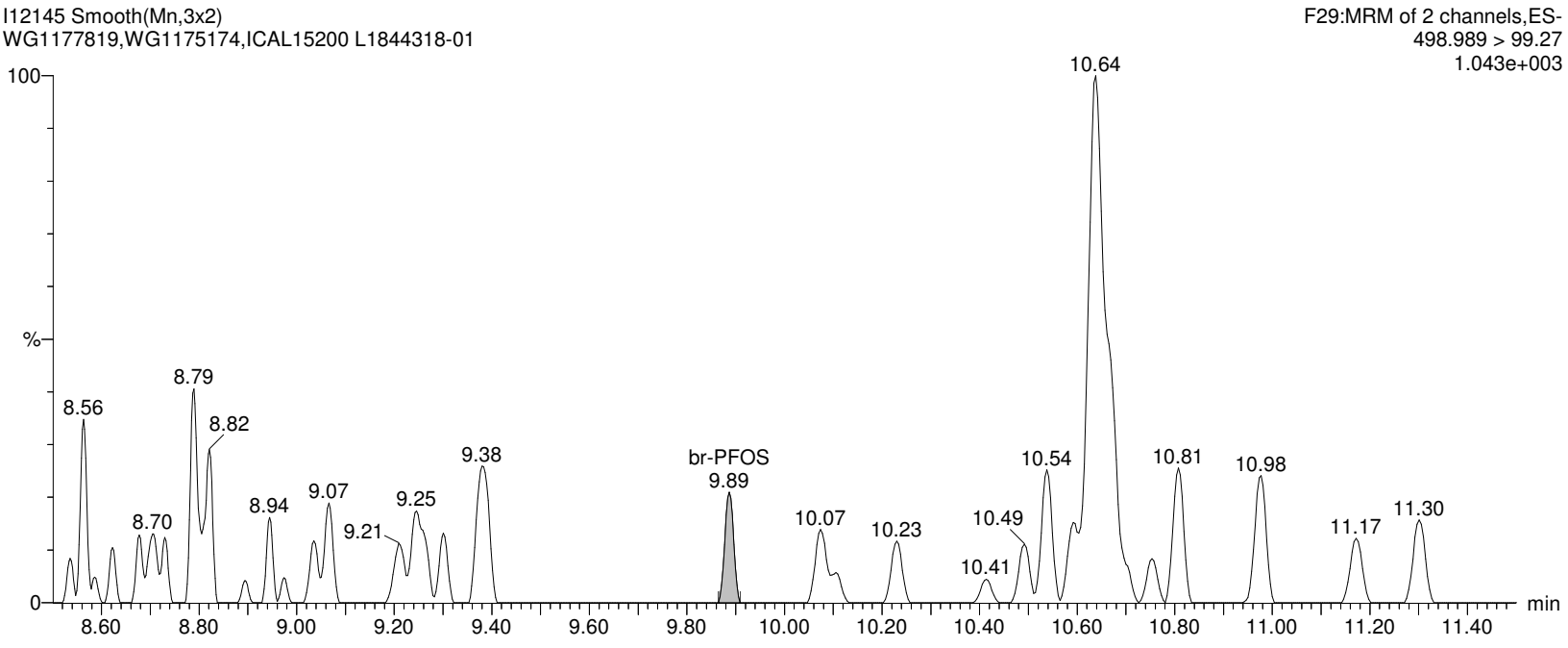

all concentration units in (ng/mL)

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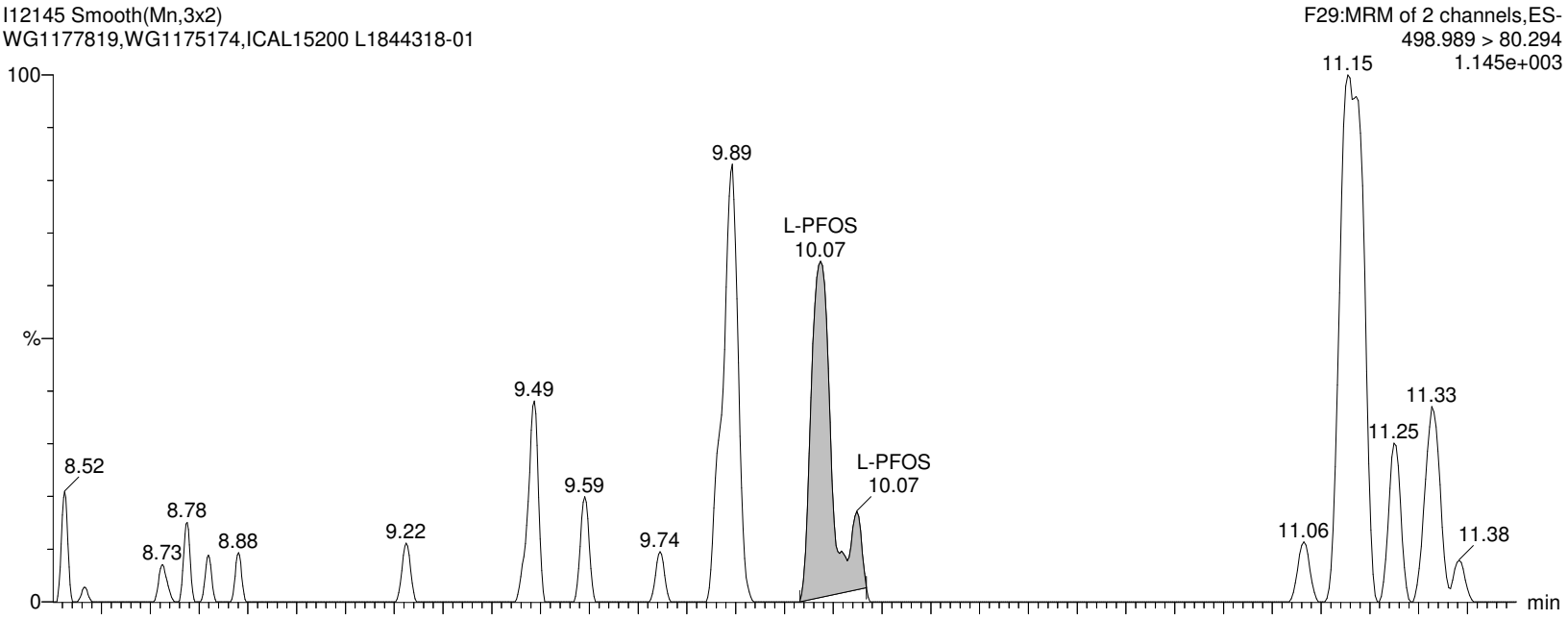
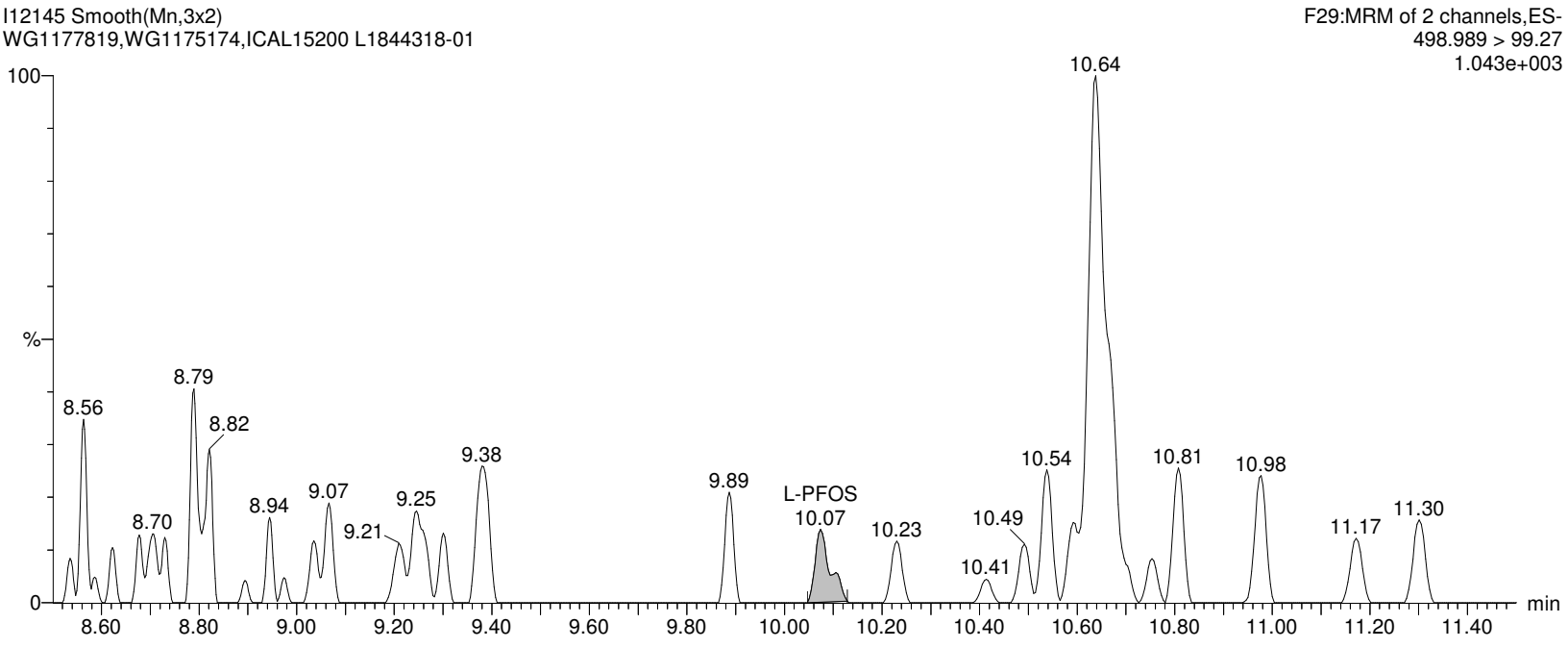
L-PFOS





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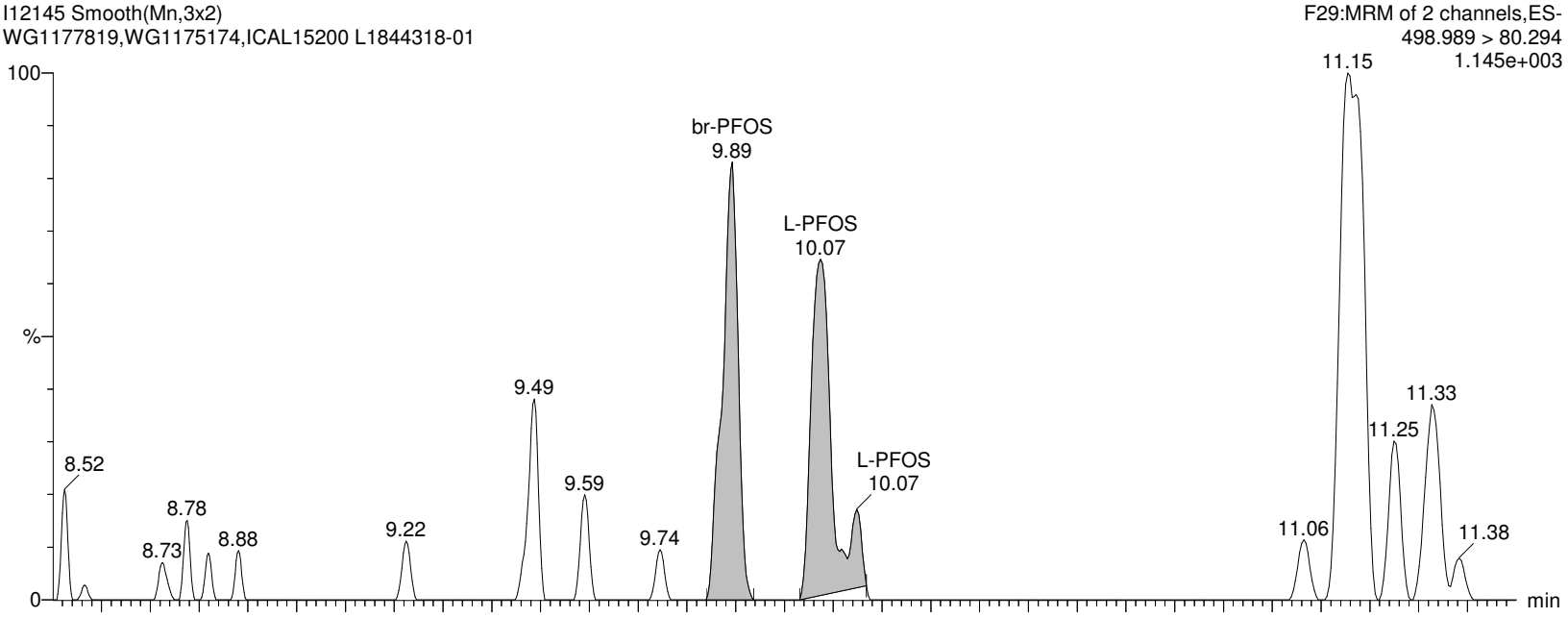

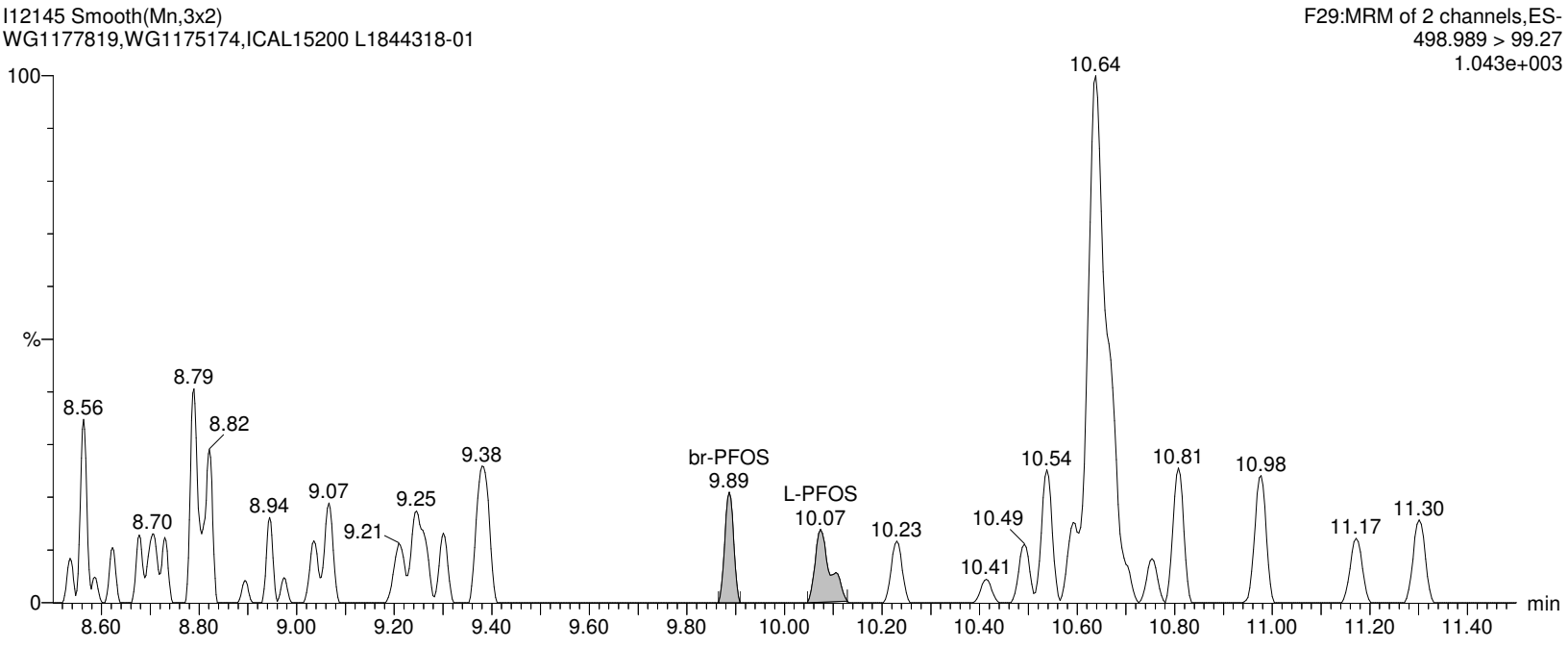

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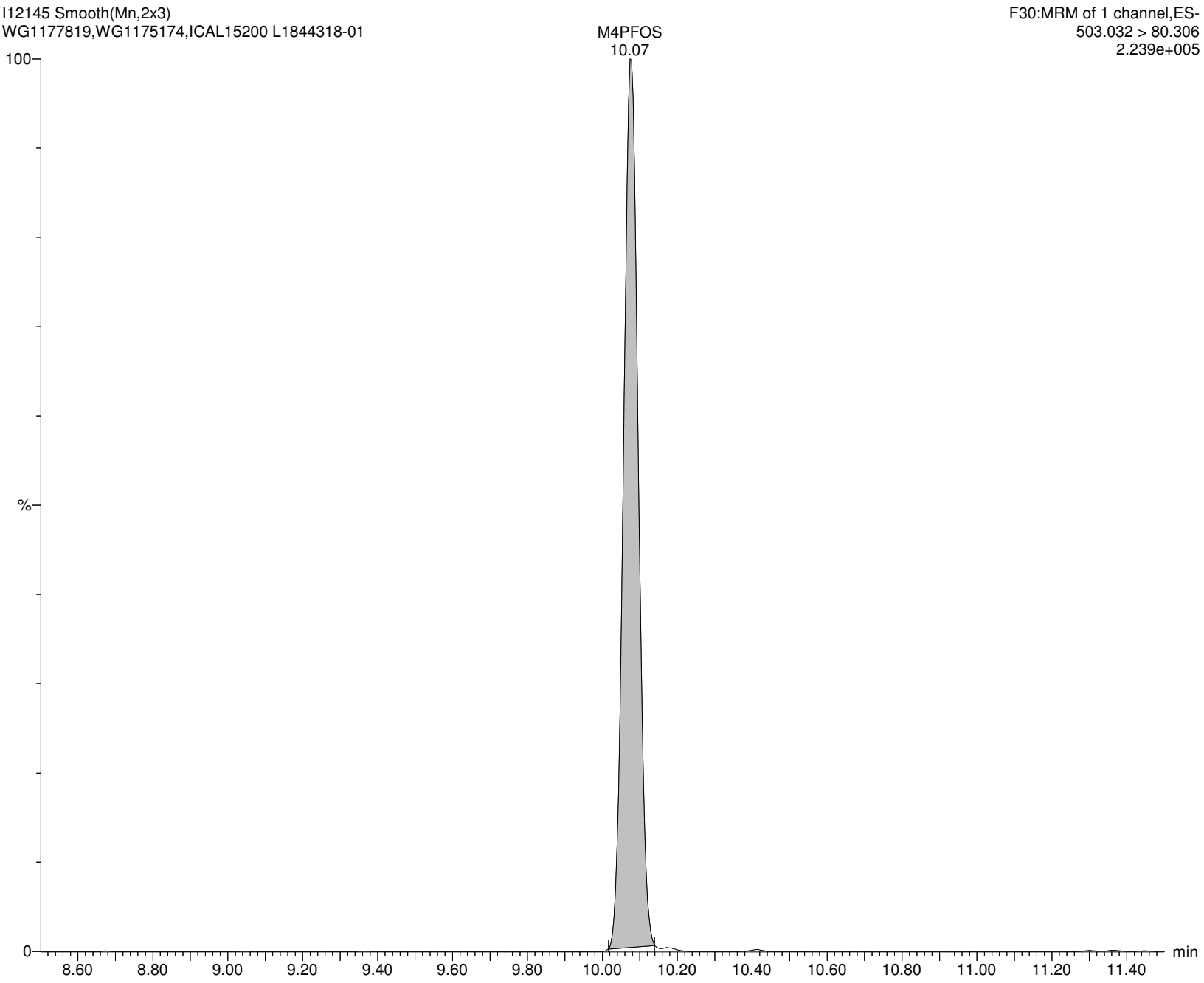

all concentration units in (ng/mL)

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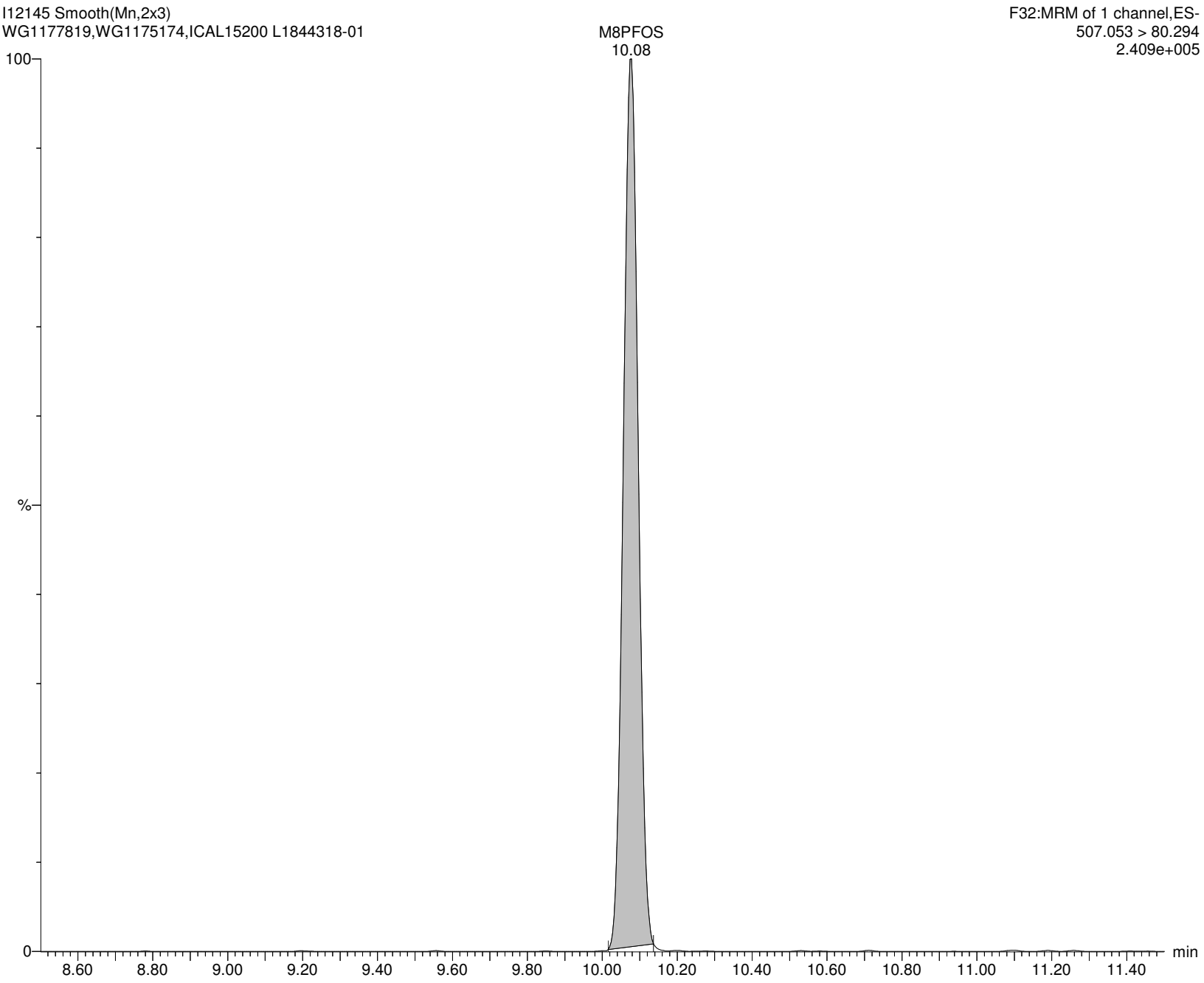
M8PFOS



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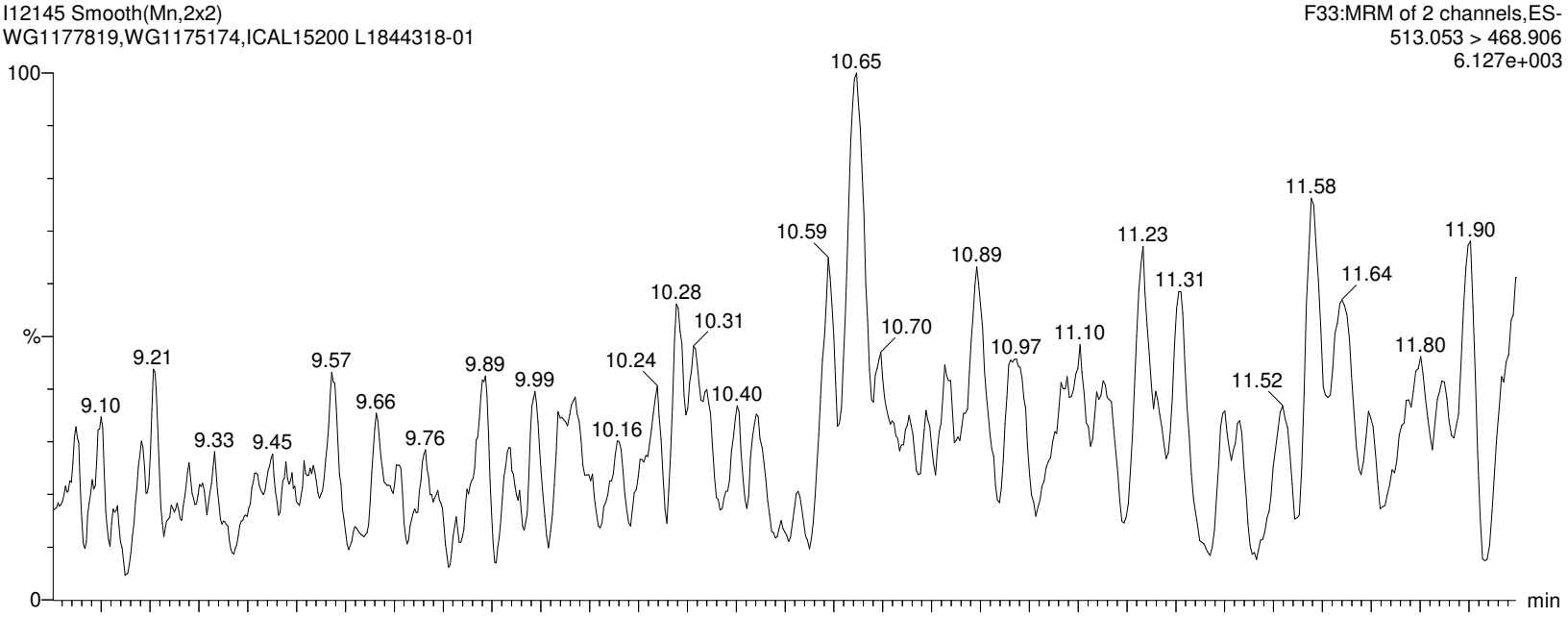

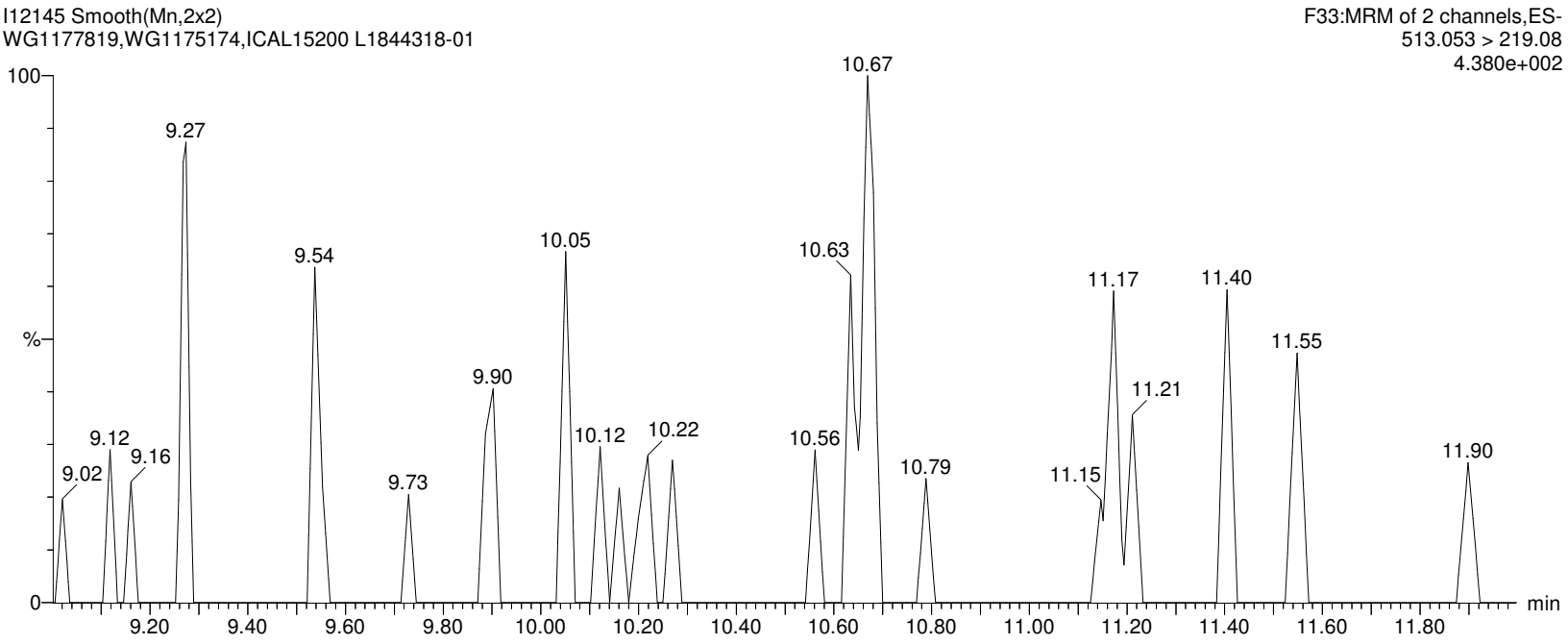

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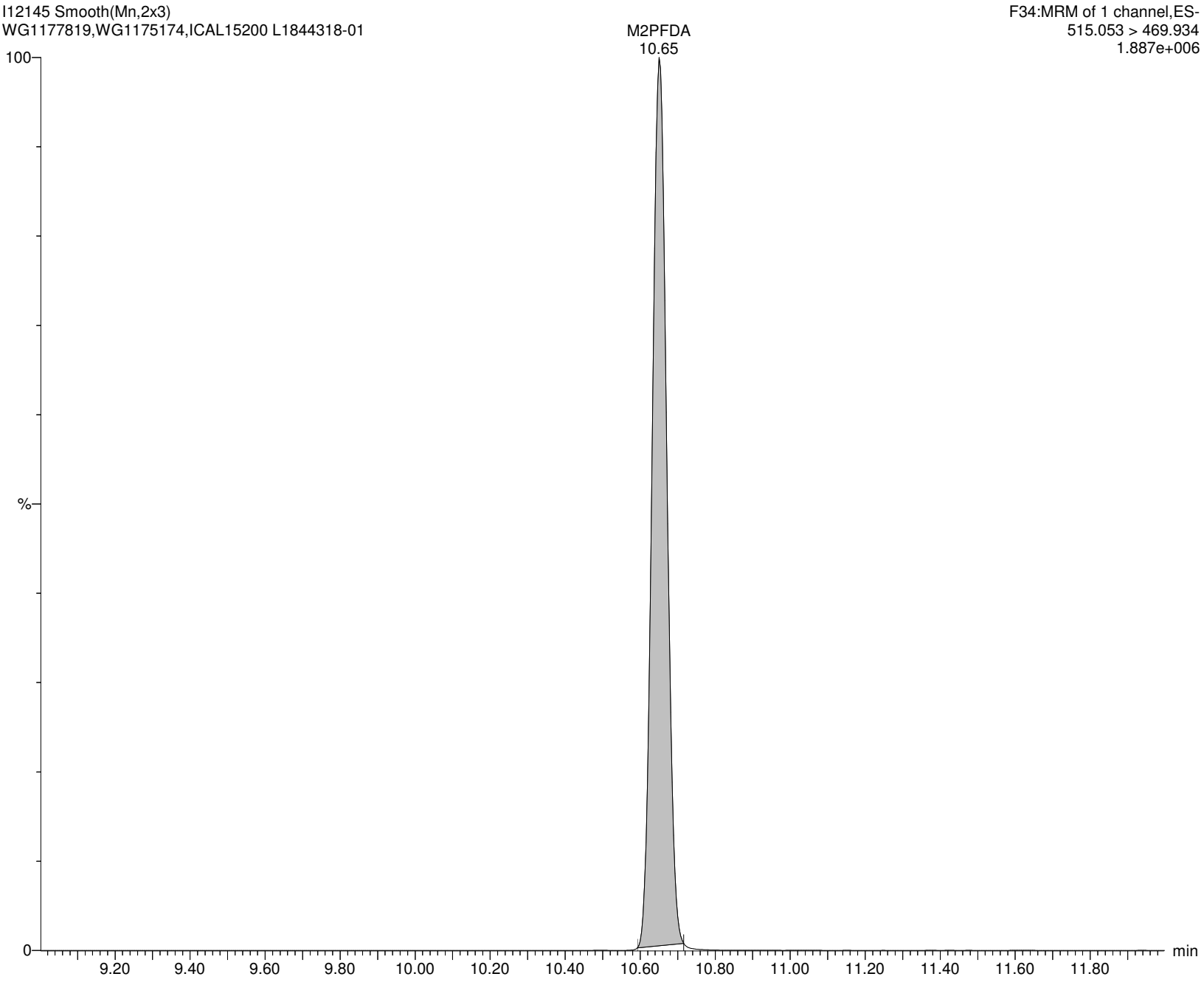

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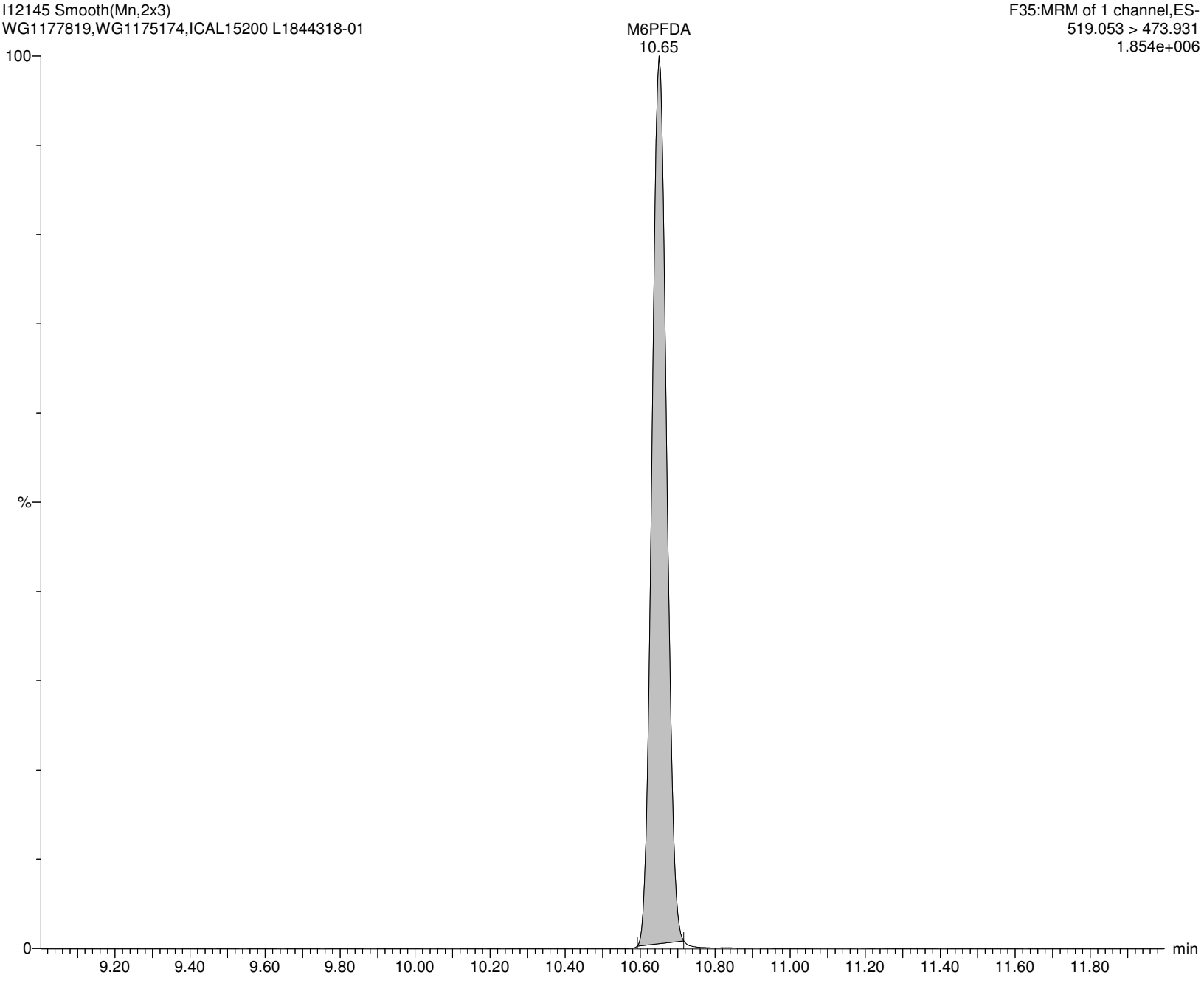

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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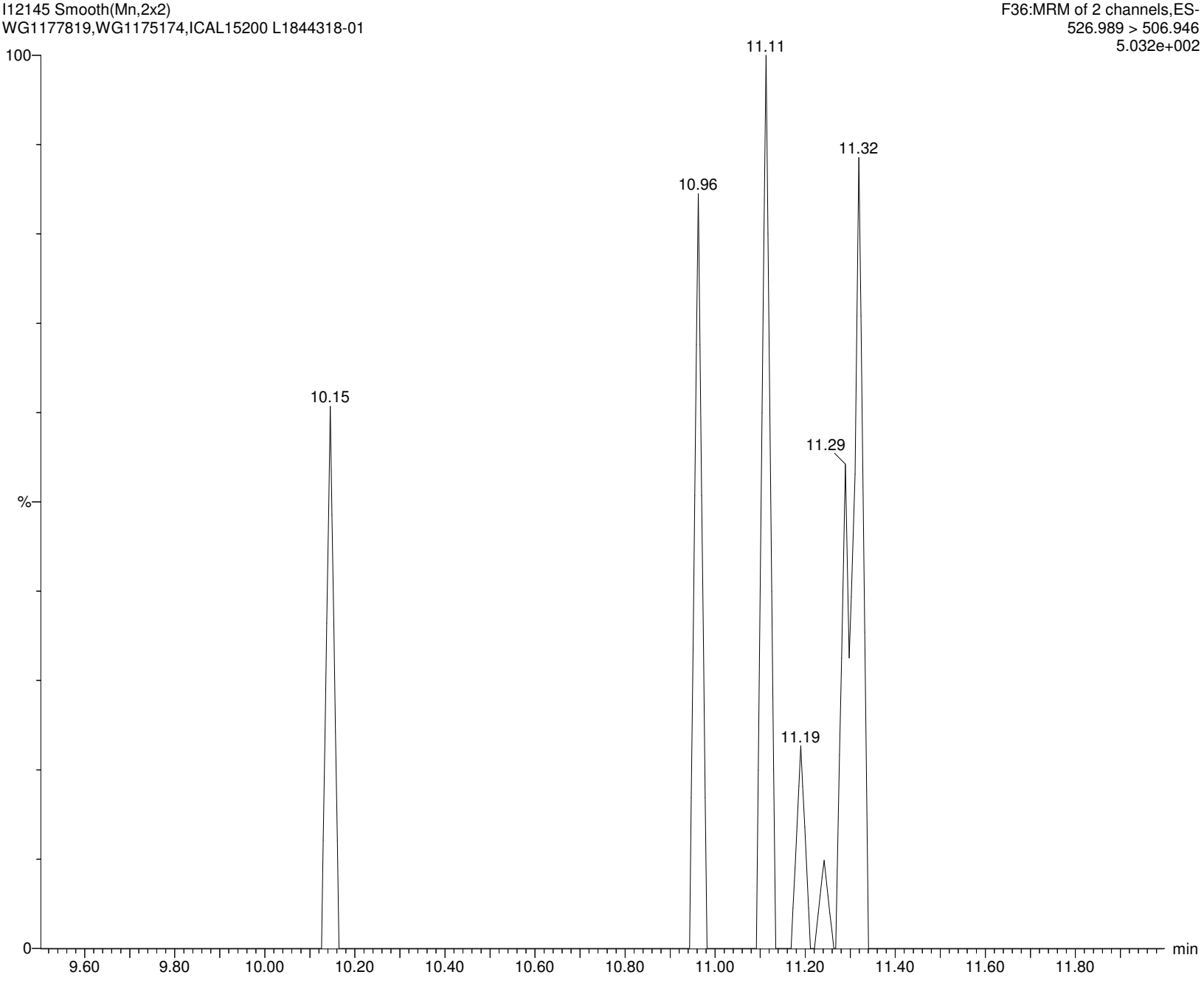

all concentration units in (ng/mL)

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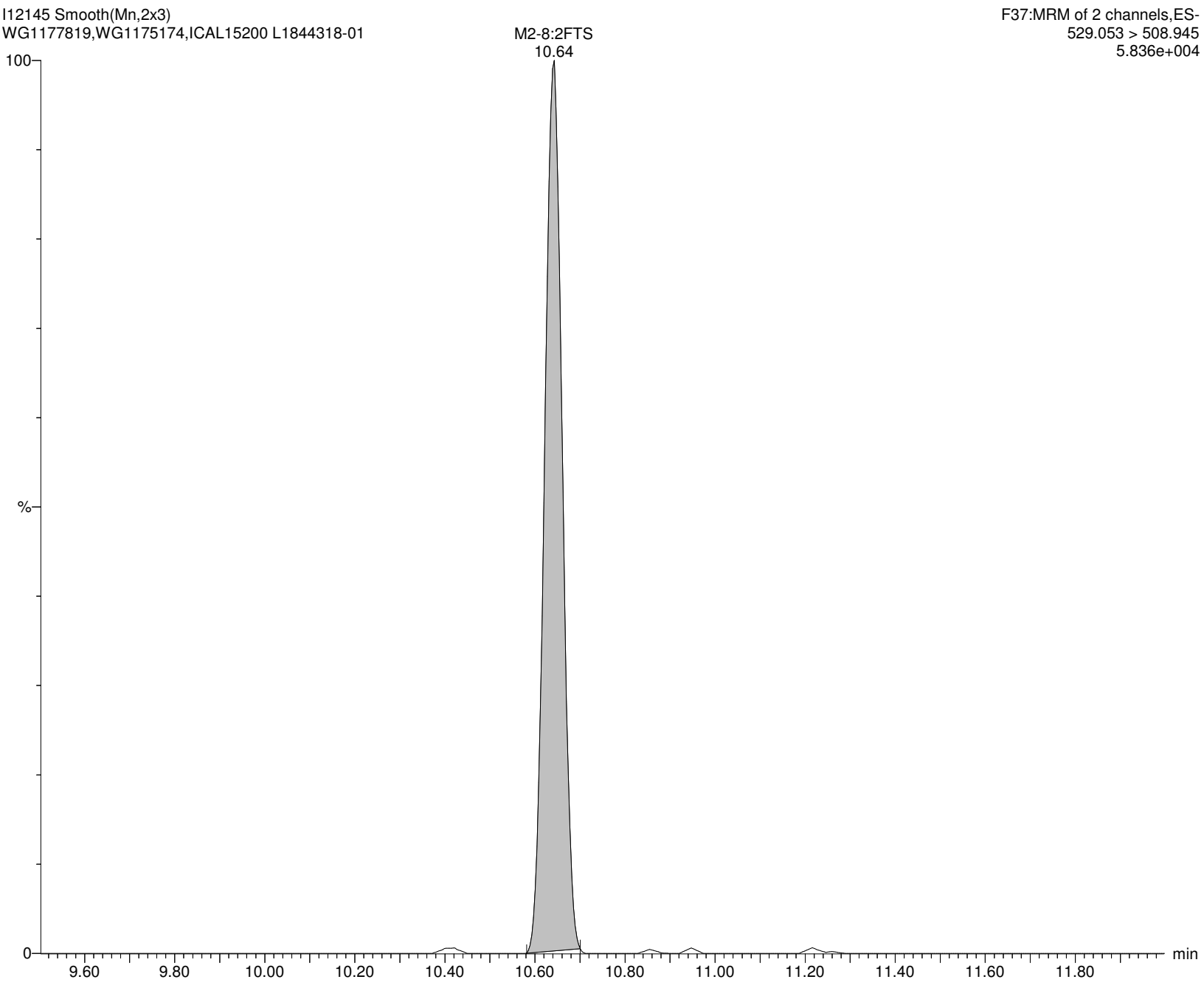

all concentration units in (ng/mL)

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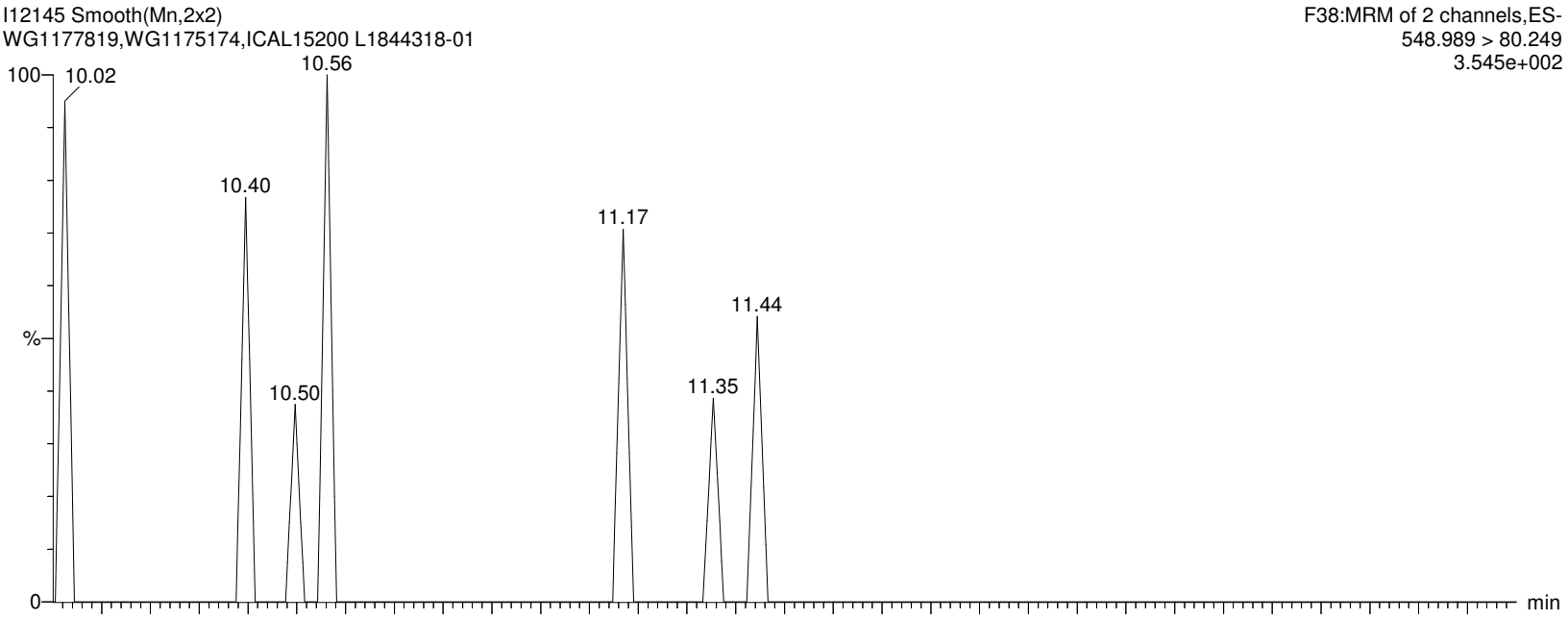

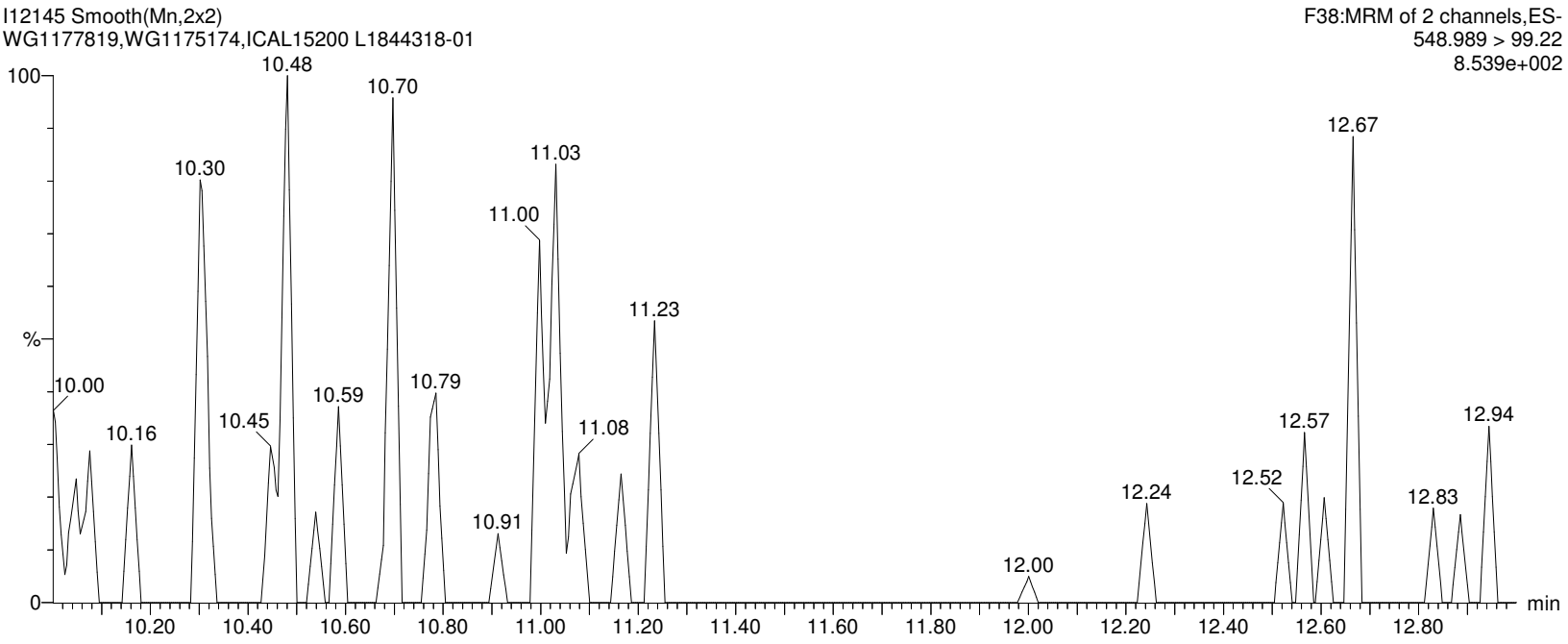

all concentration units in (ng/mL)

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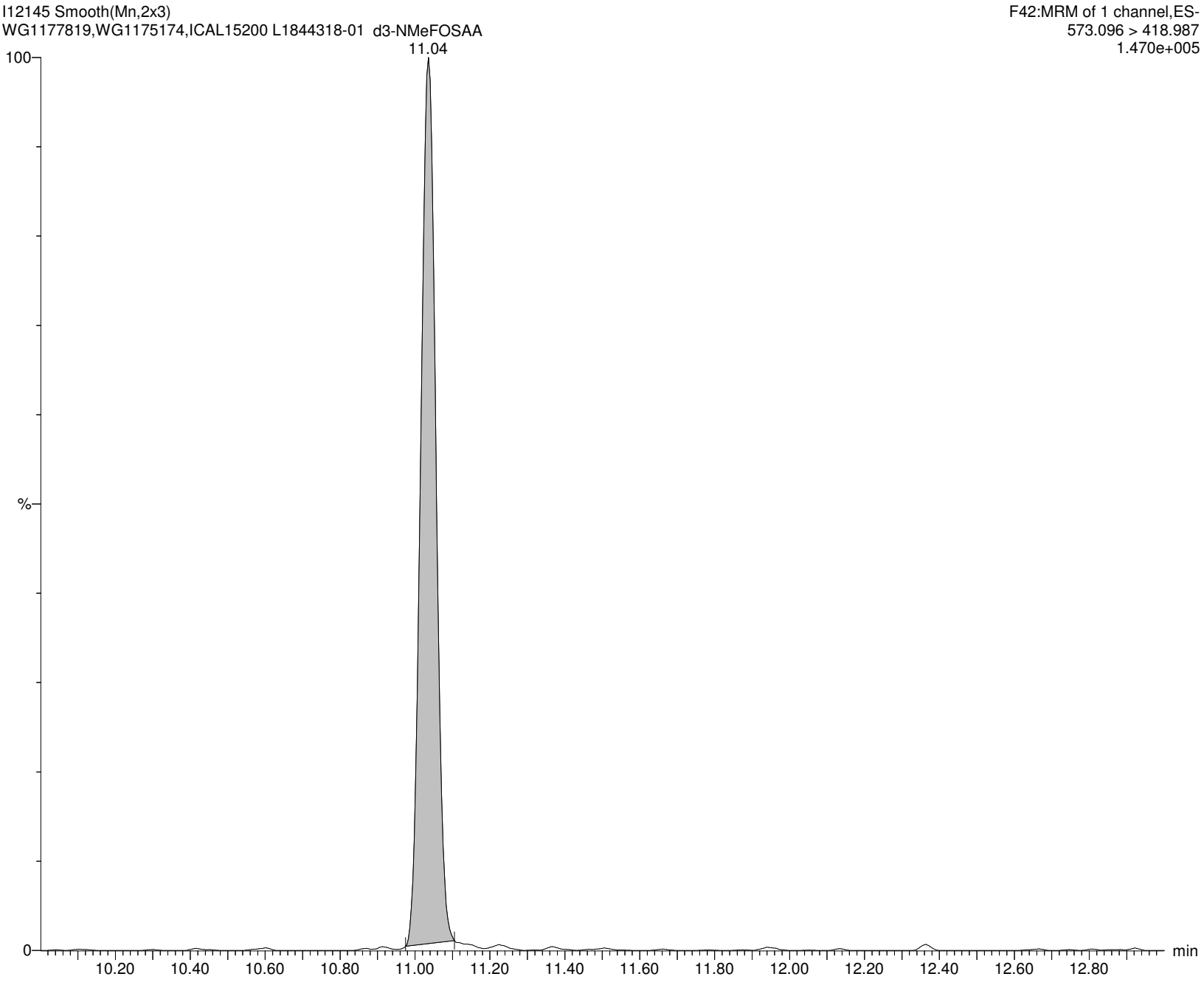
d3-NMeFOSAA



all concentration units in (ng/mL)

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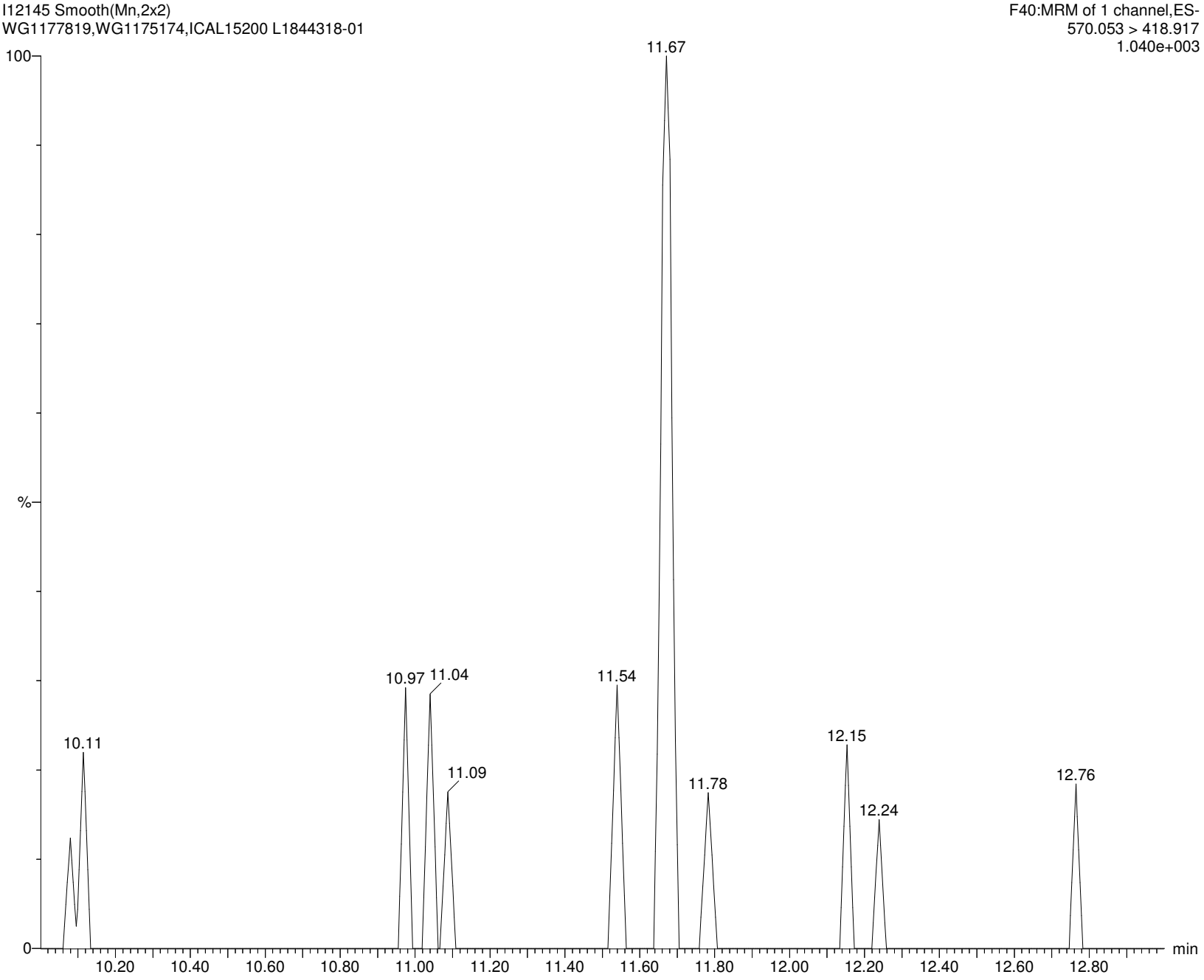

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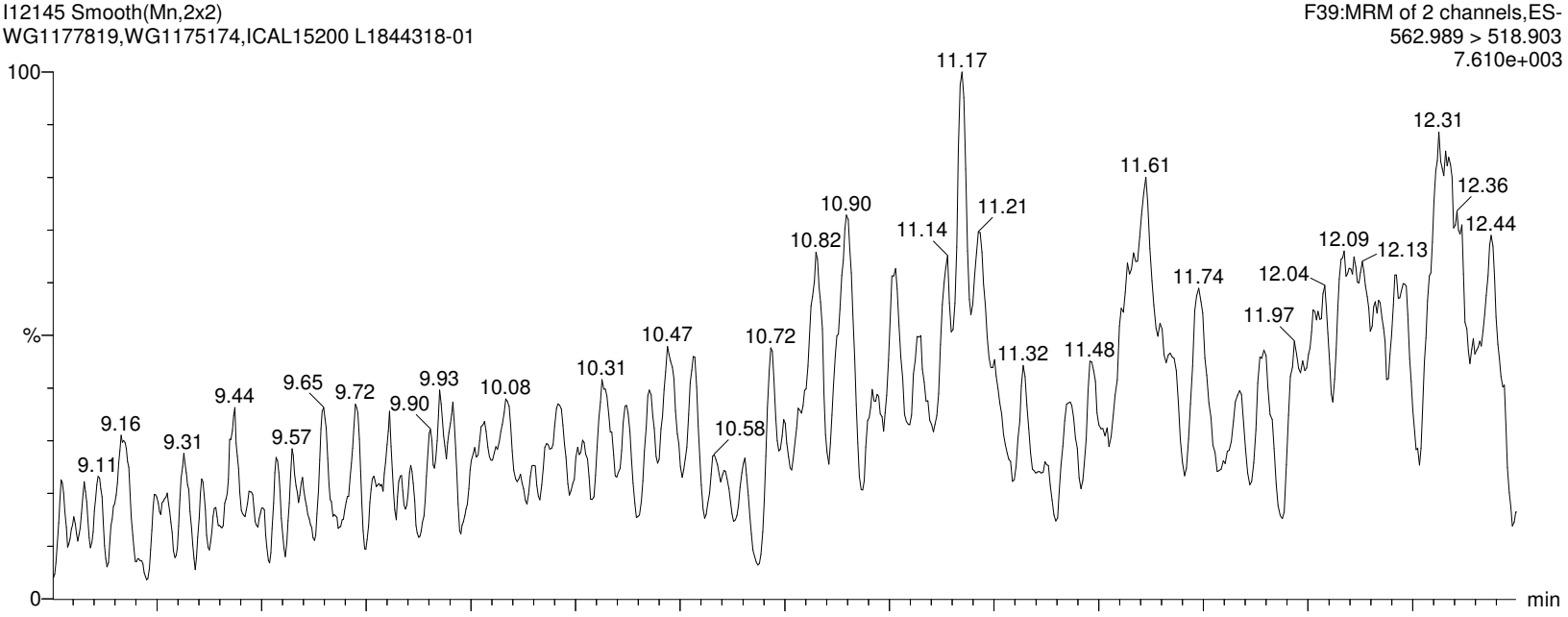

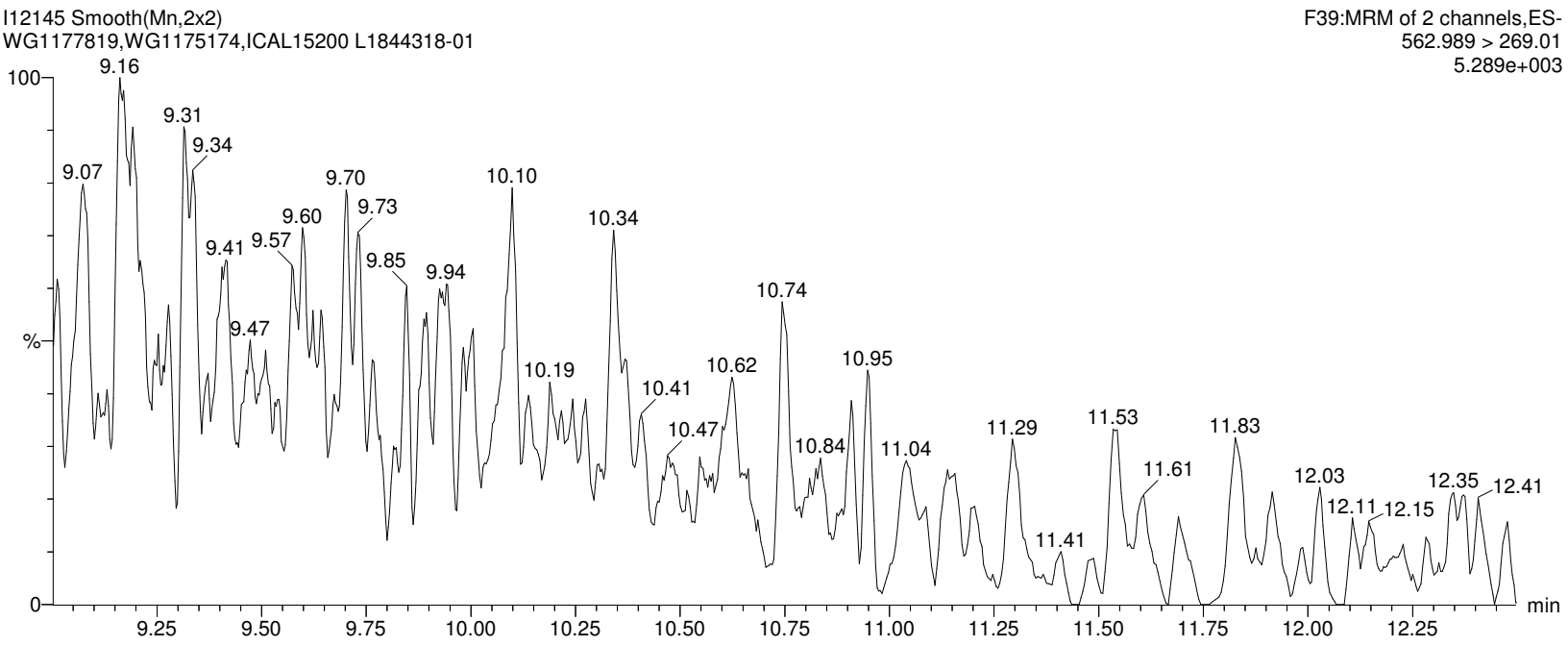

all concentration units in (ng/mL)

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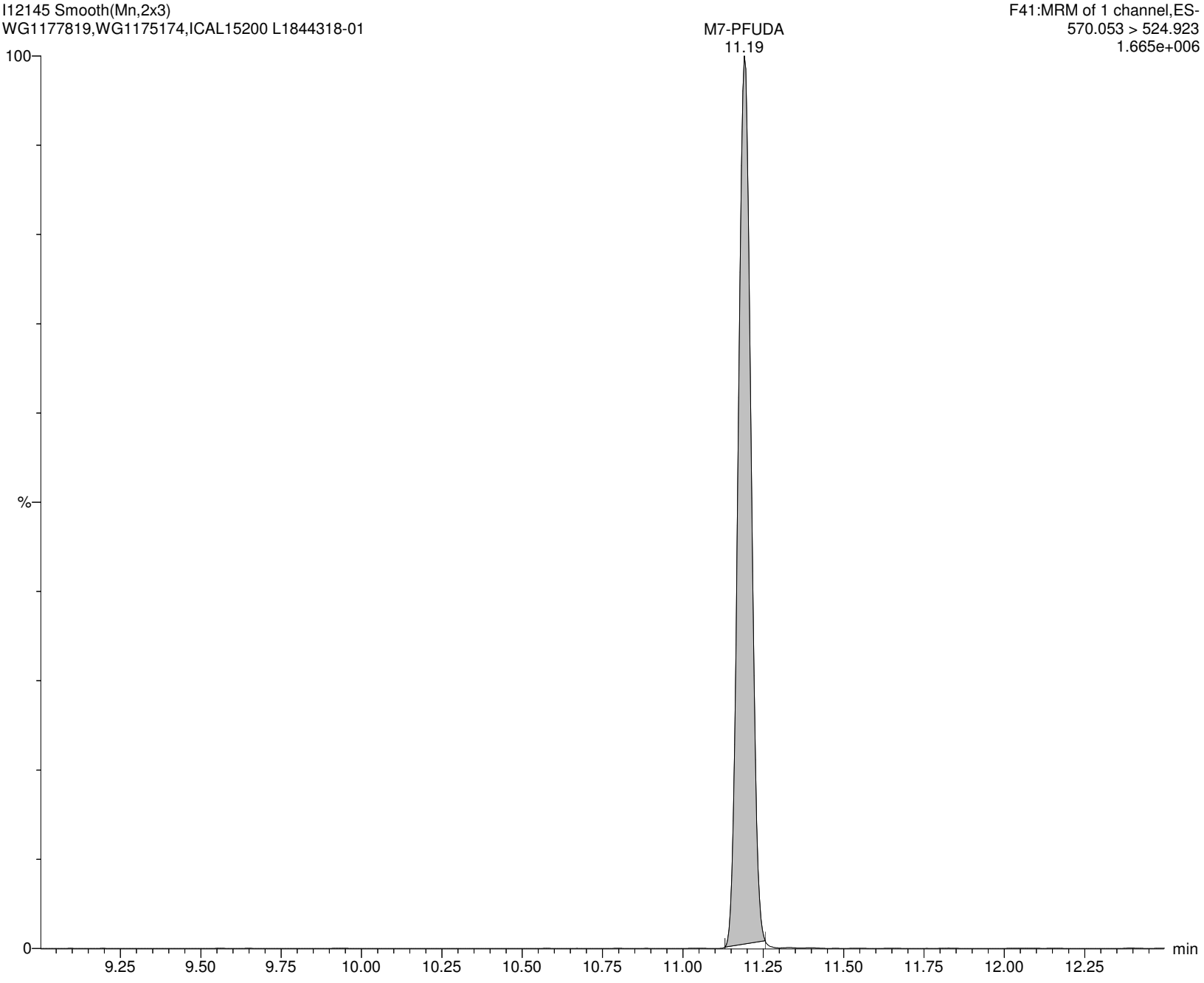

all concentration units in (ng/mL)

Alpha Analytical Inc.
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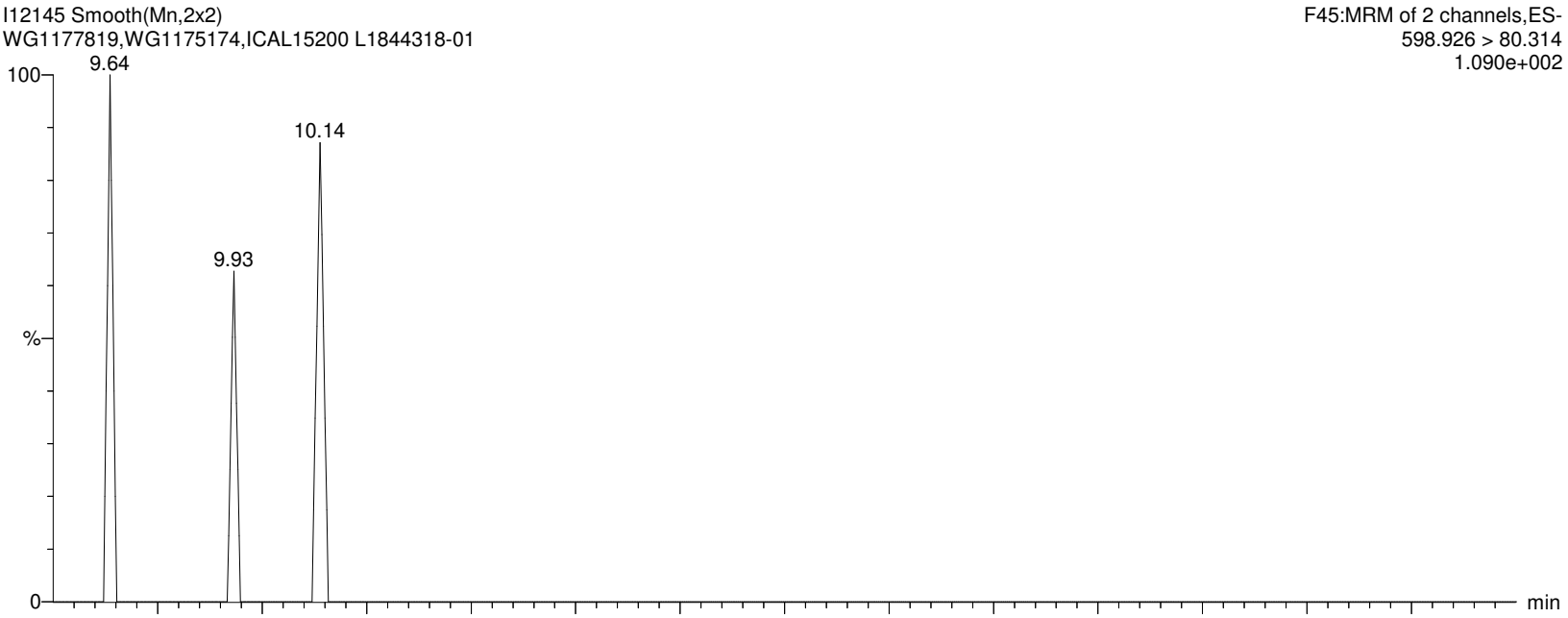

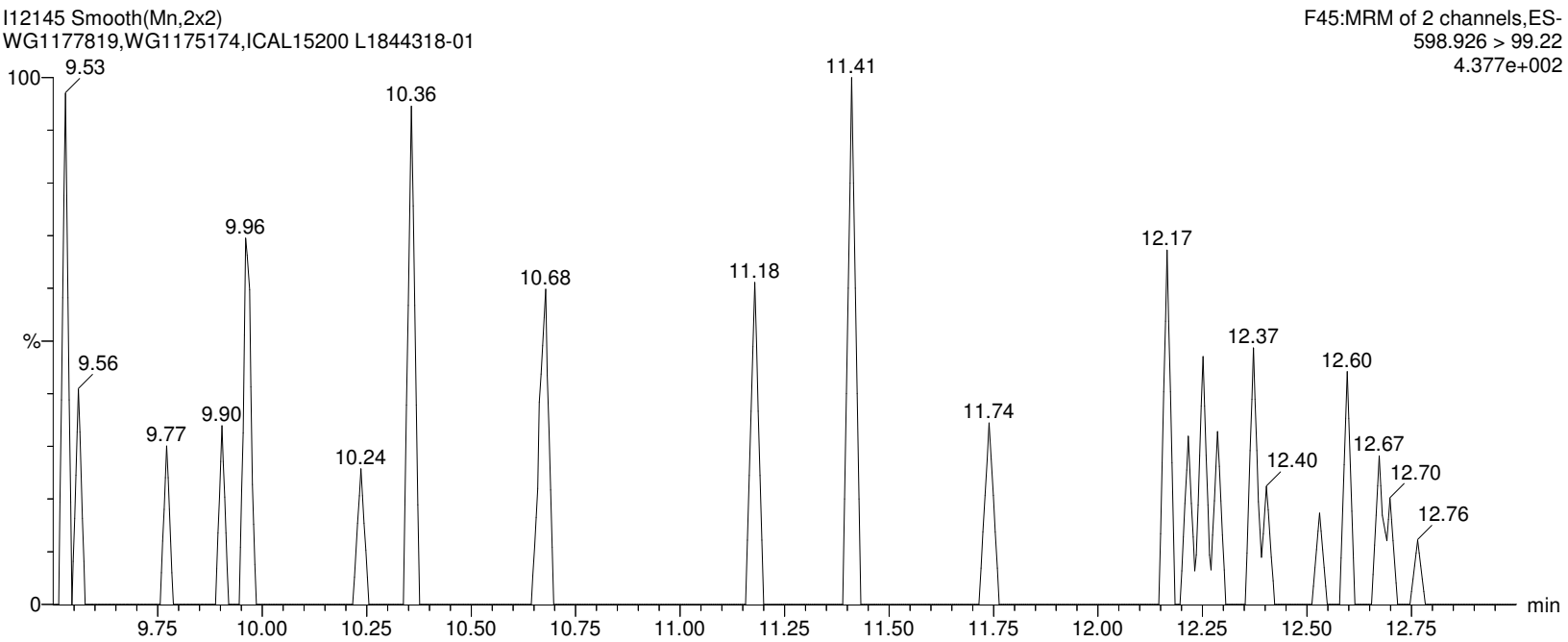

all concentration units in (ng/mL)

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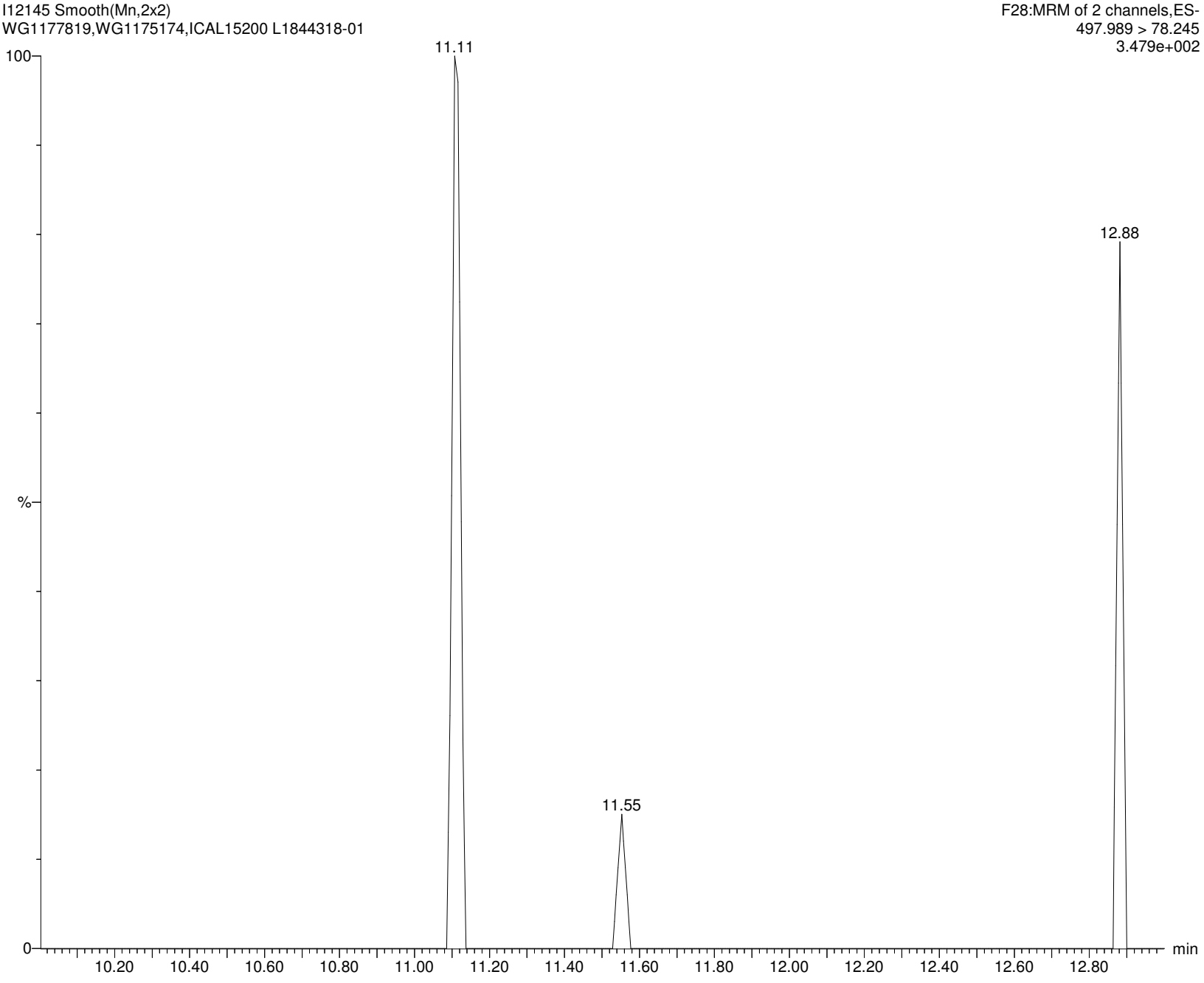

all concentration units in (ng/mL)

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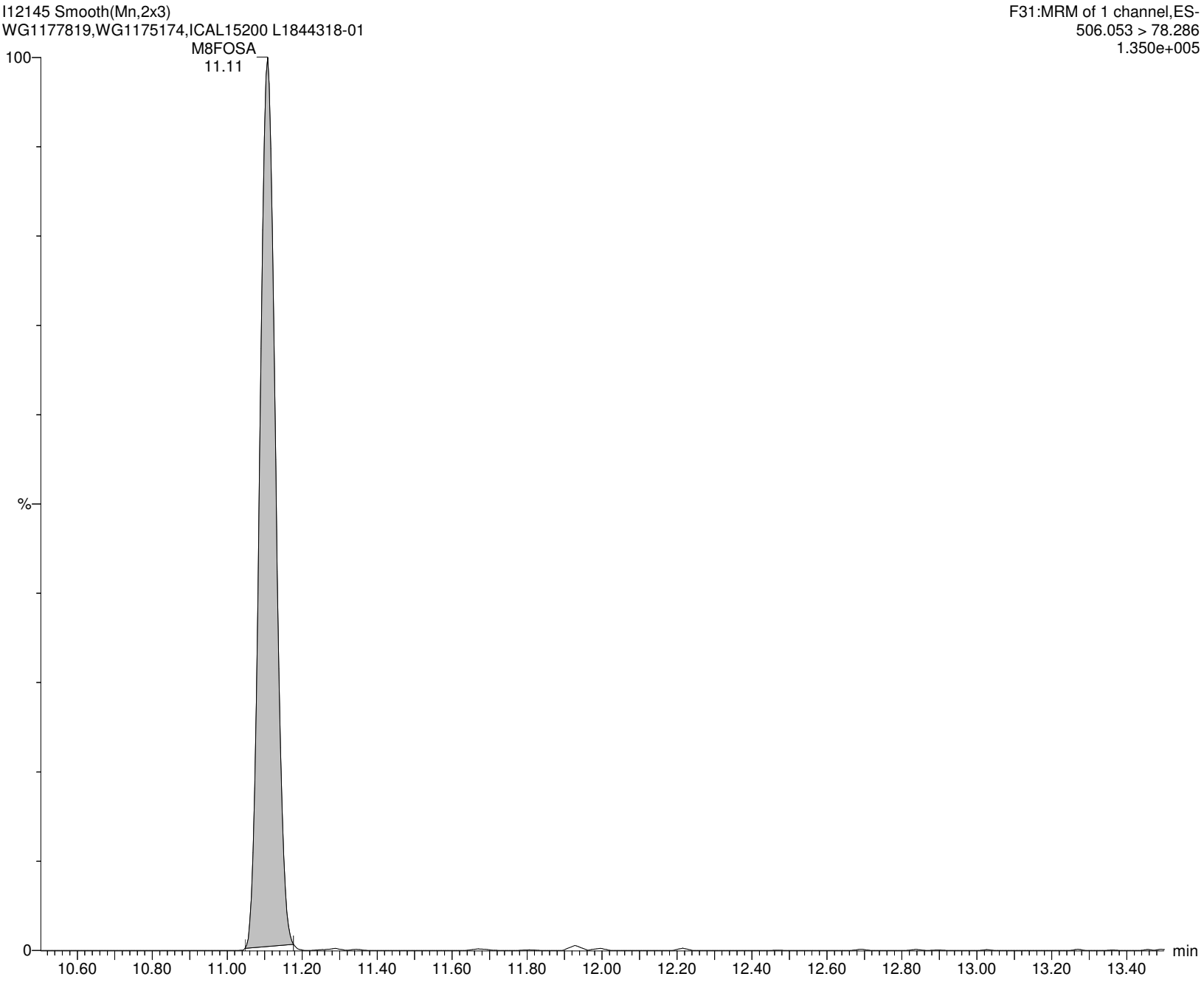

all concentration units in (ng/mL)

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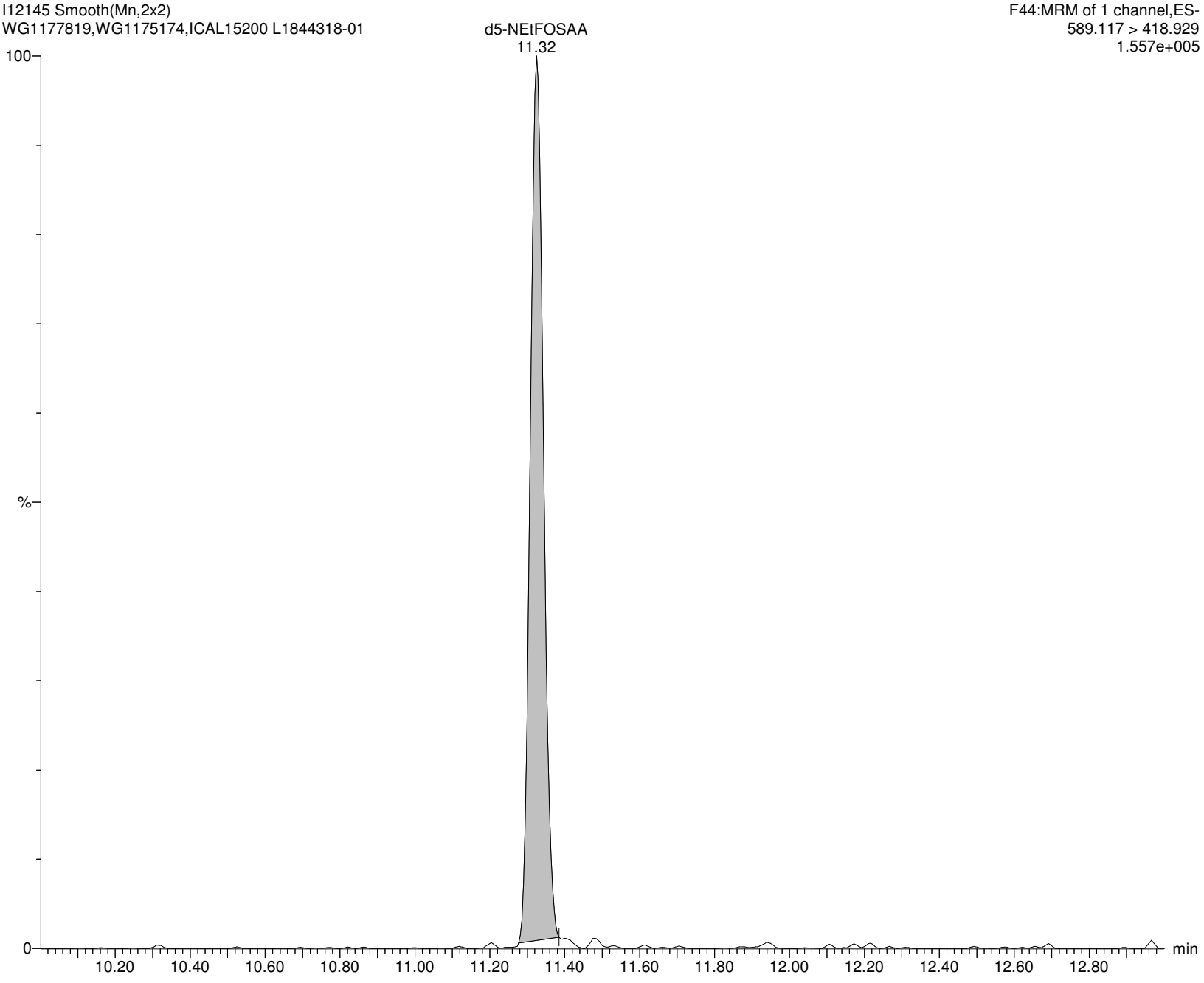
d5-NEtFOSAA



all concentration units in (ng/mL)

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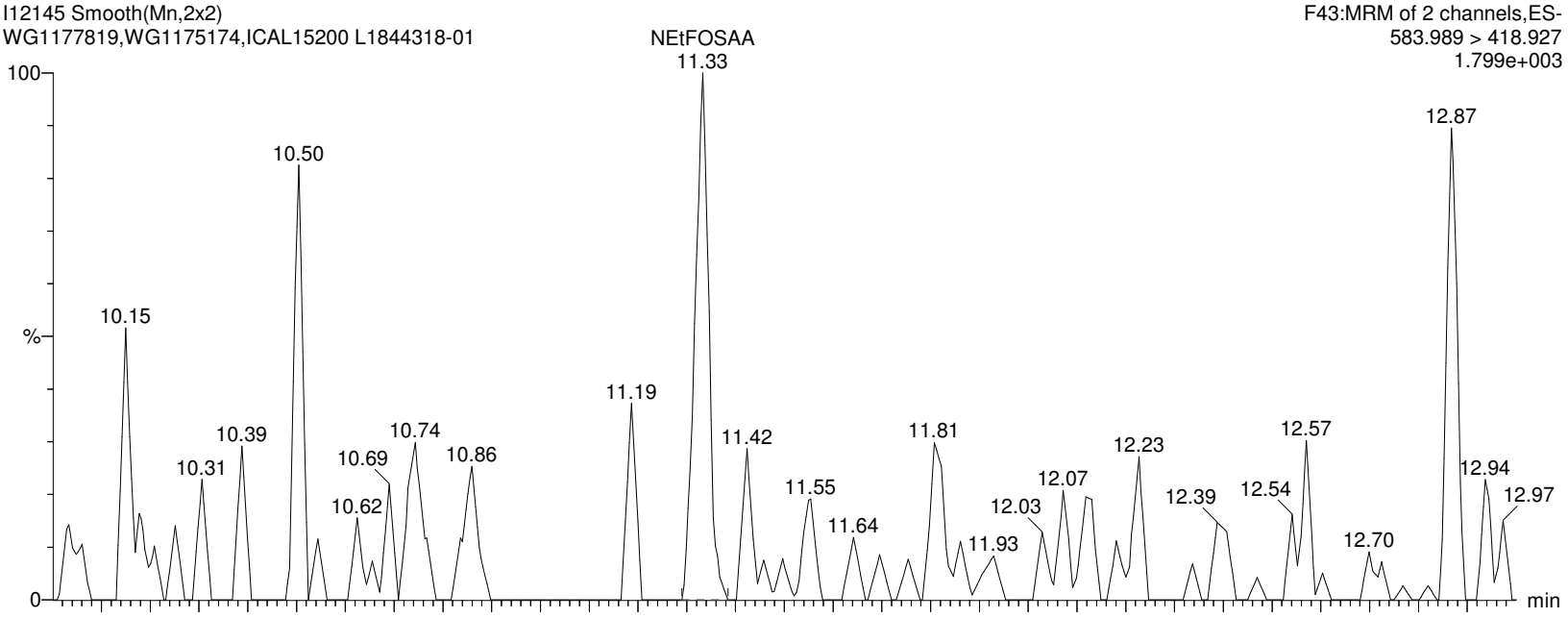

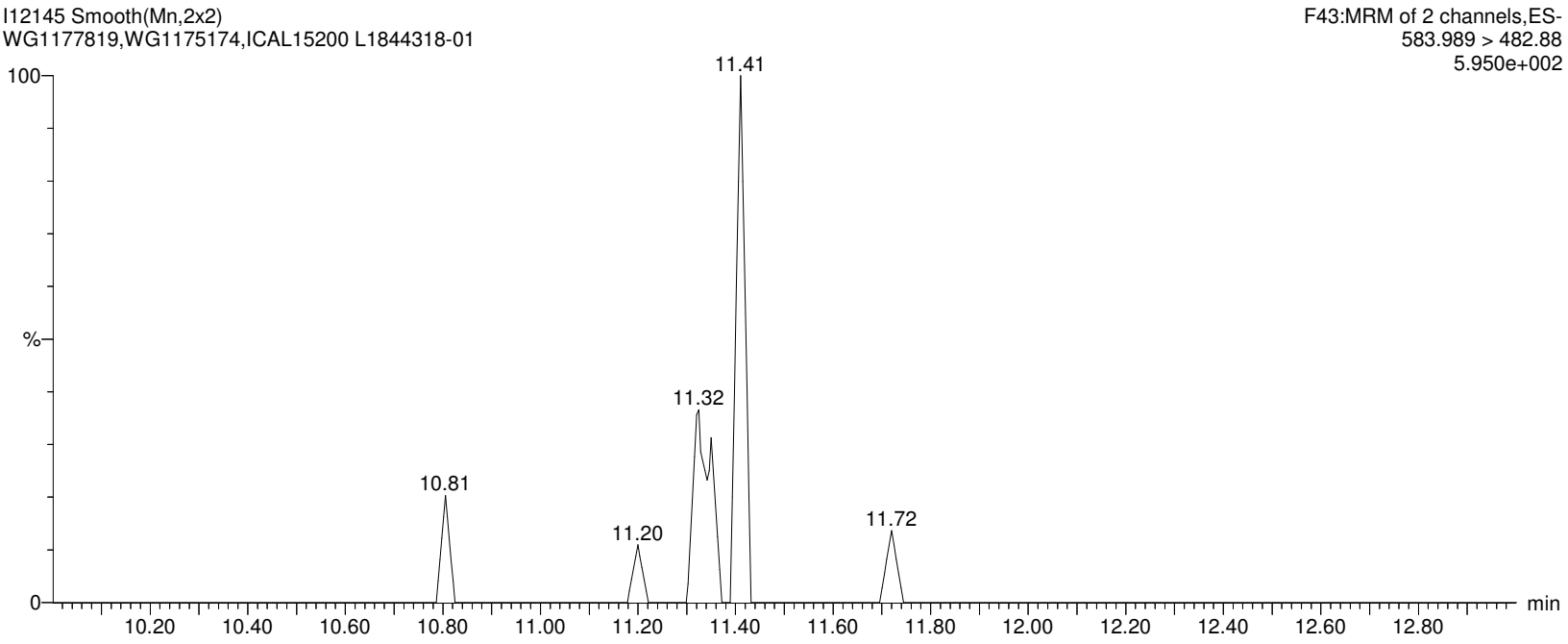

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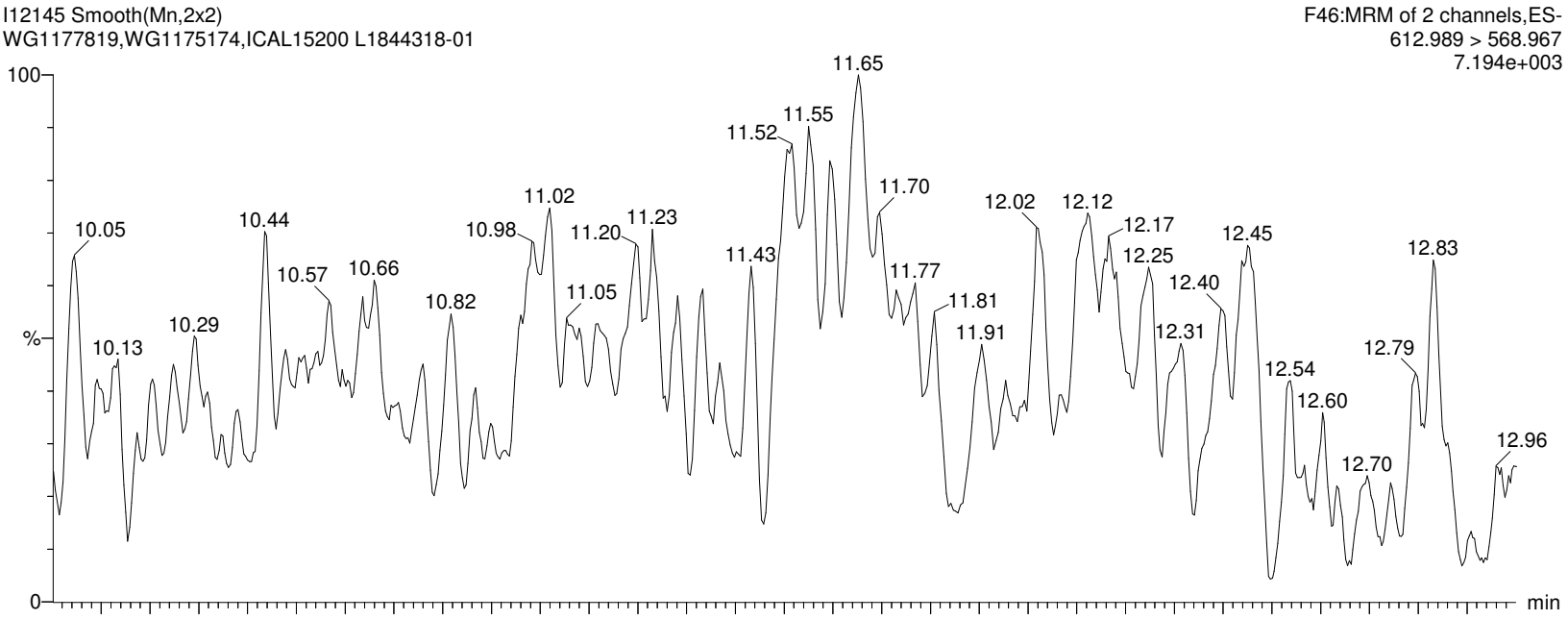

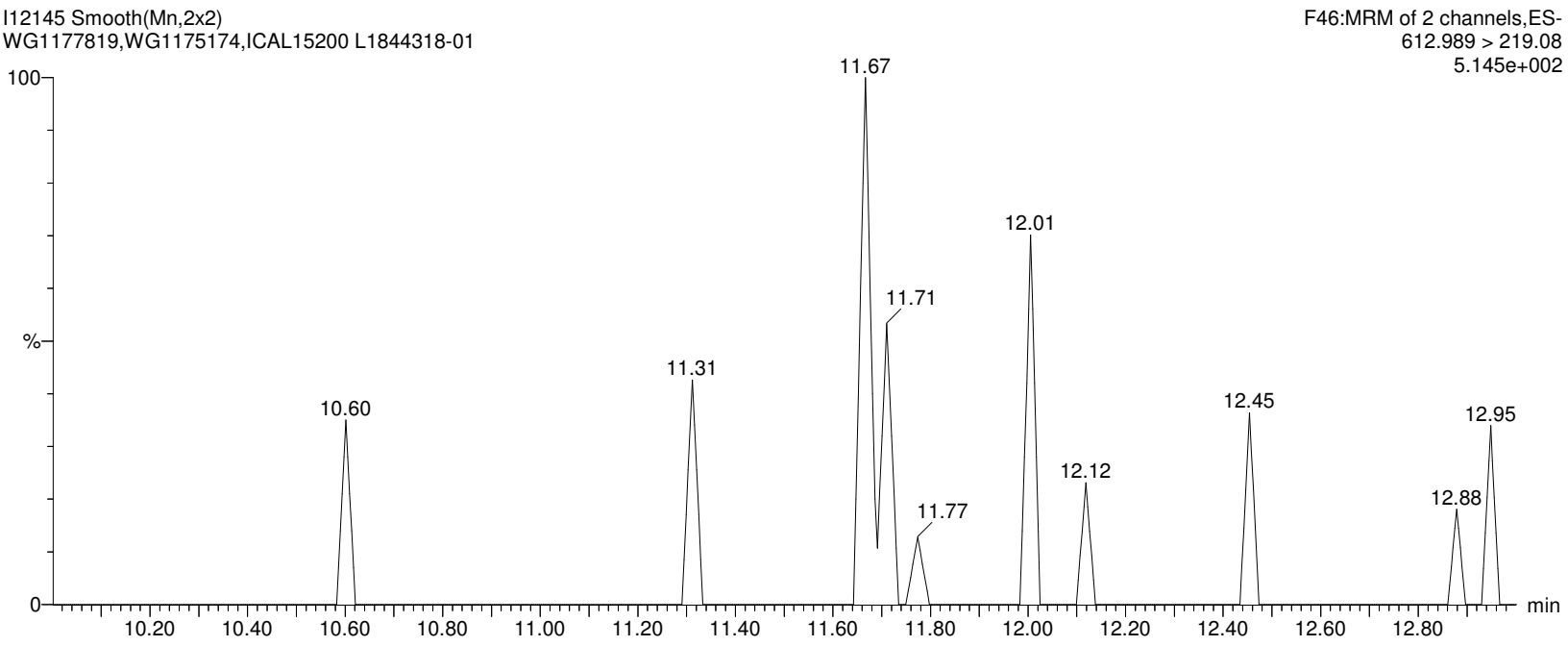

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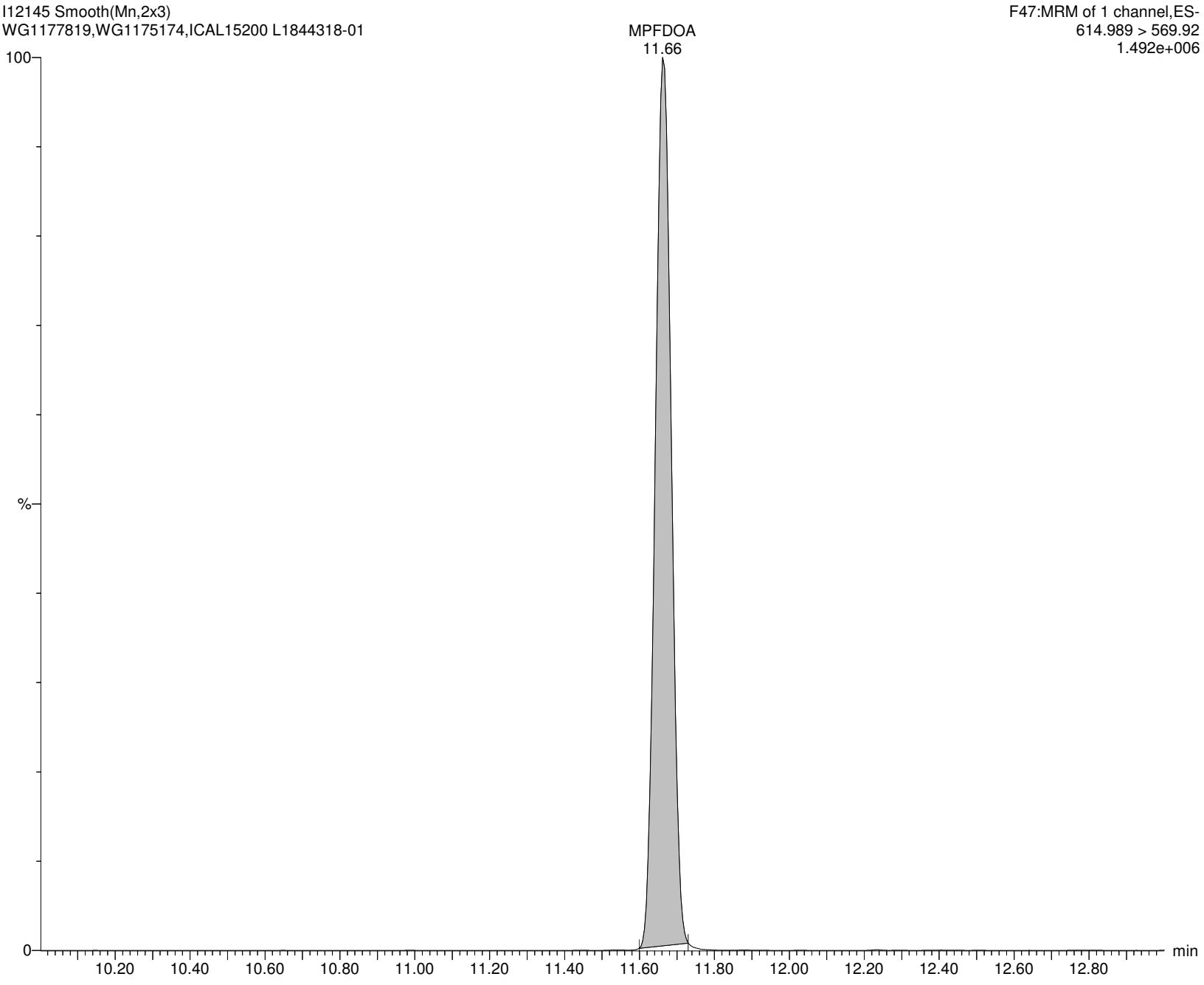

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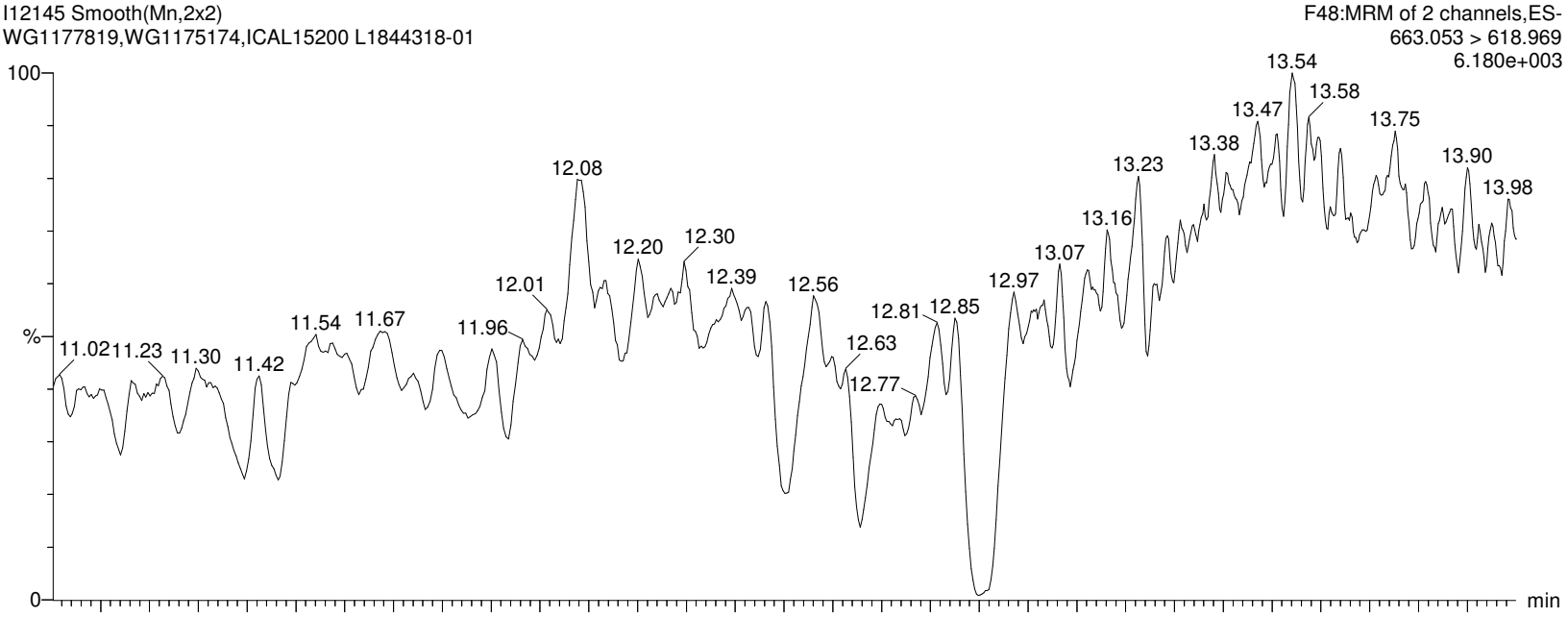

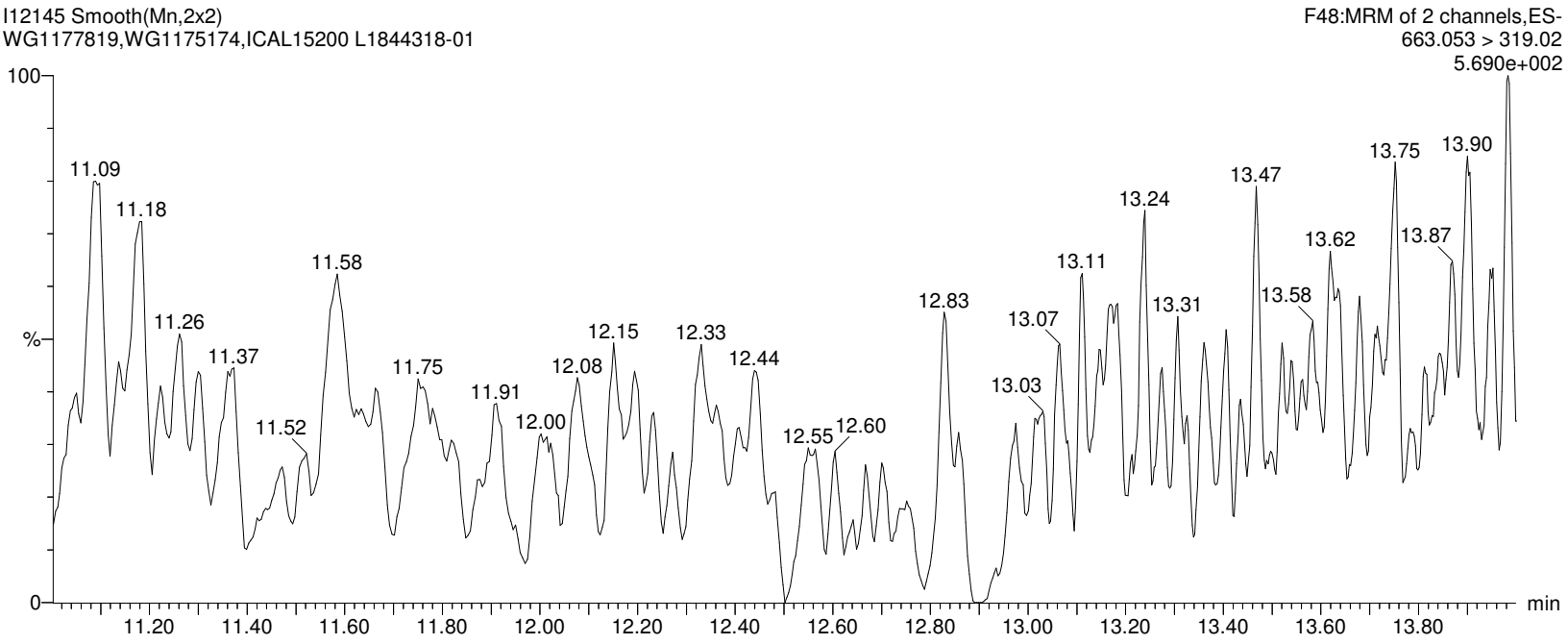

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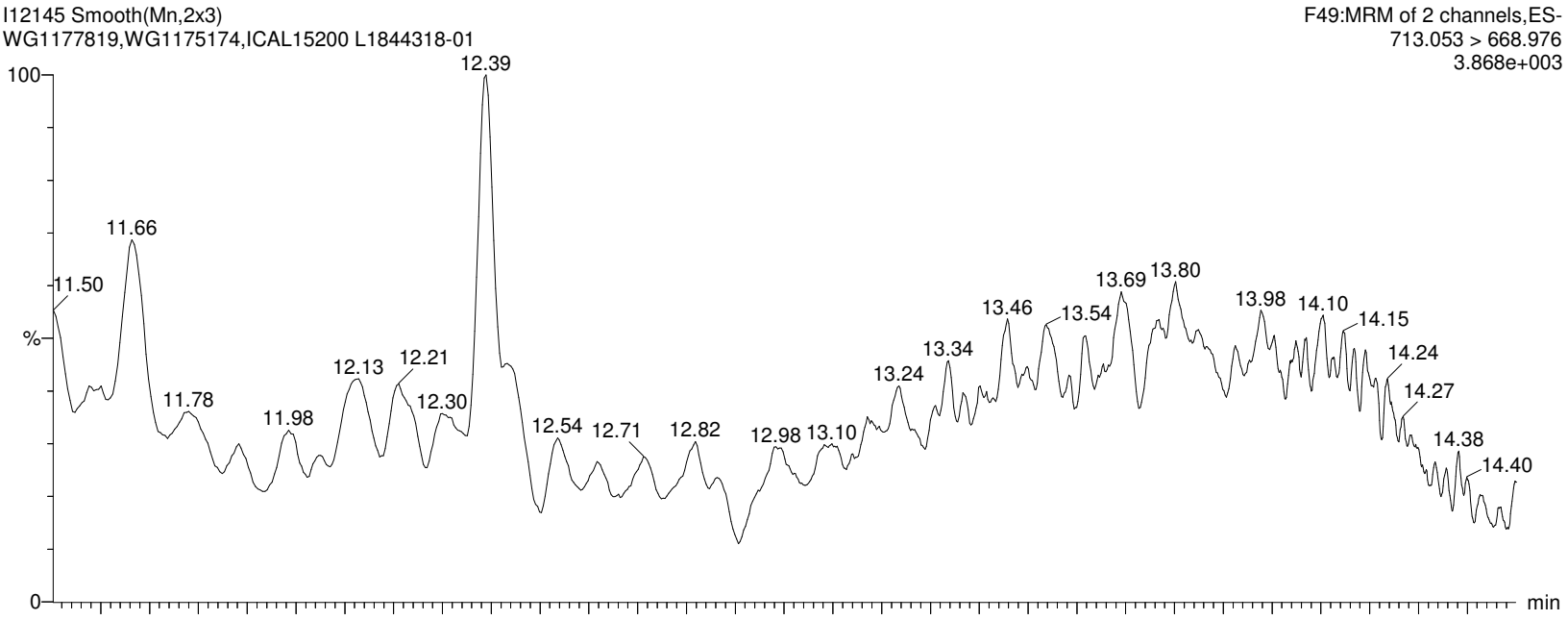

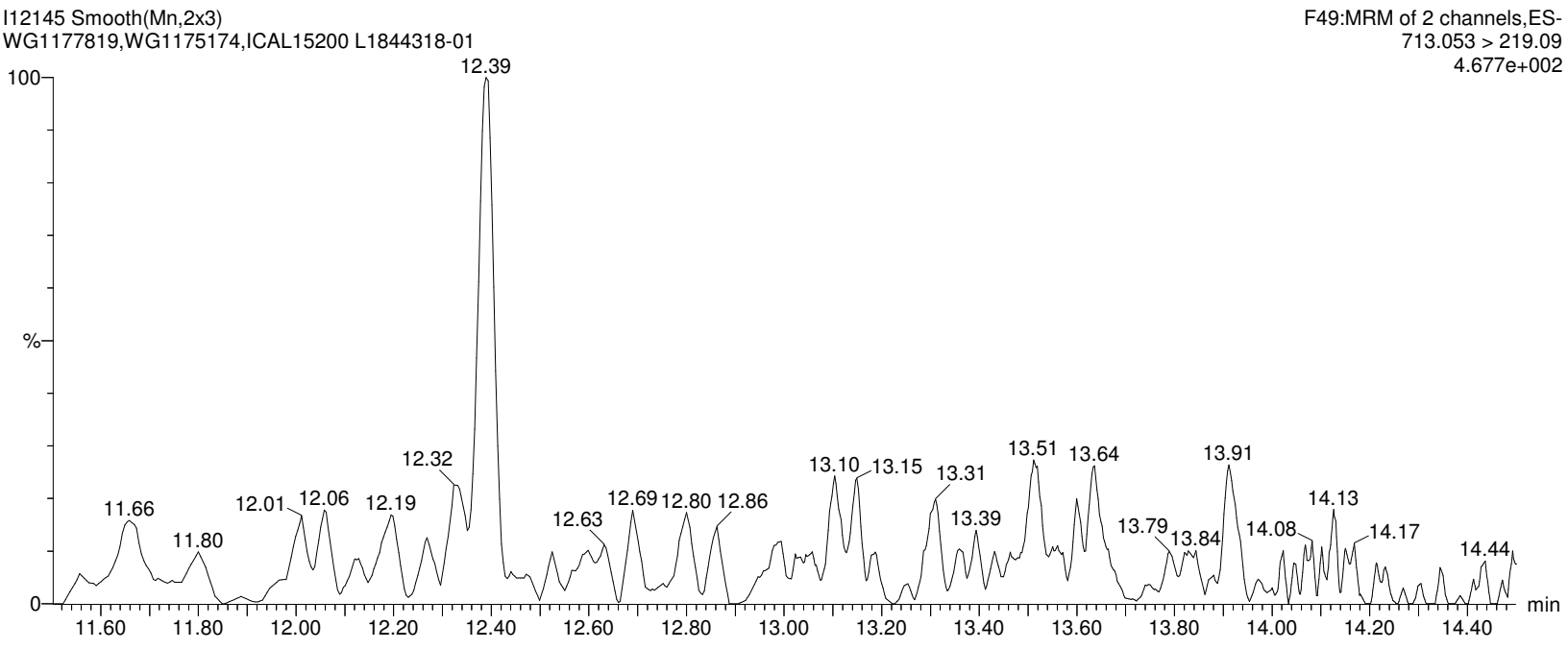

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:41 Eastern Standard Time

Name: I12145
ID: L1844318-01
Date: 10-Nov-2018
Time: 04:55:58
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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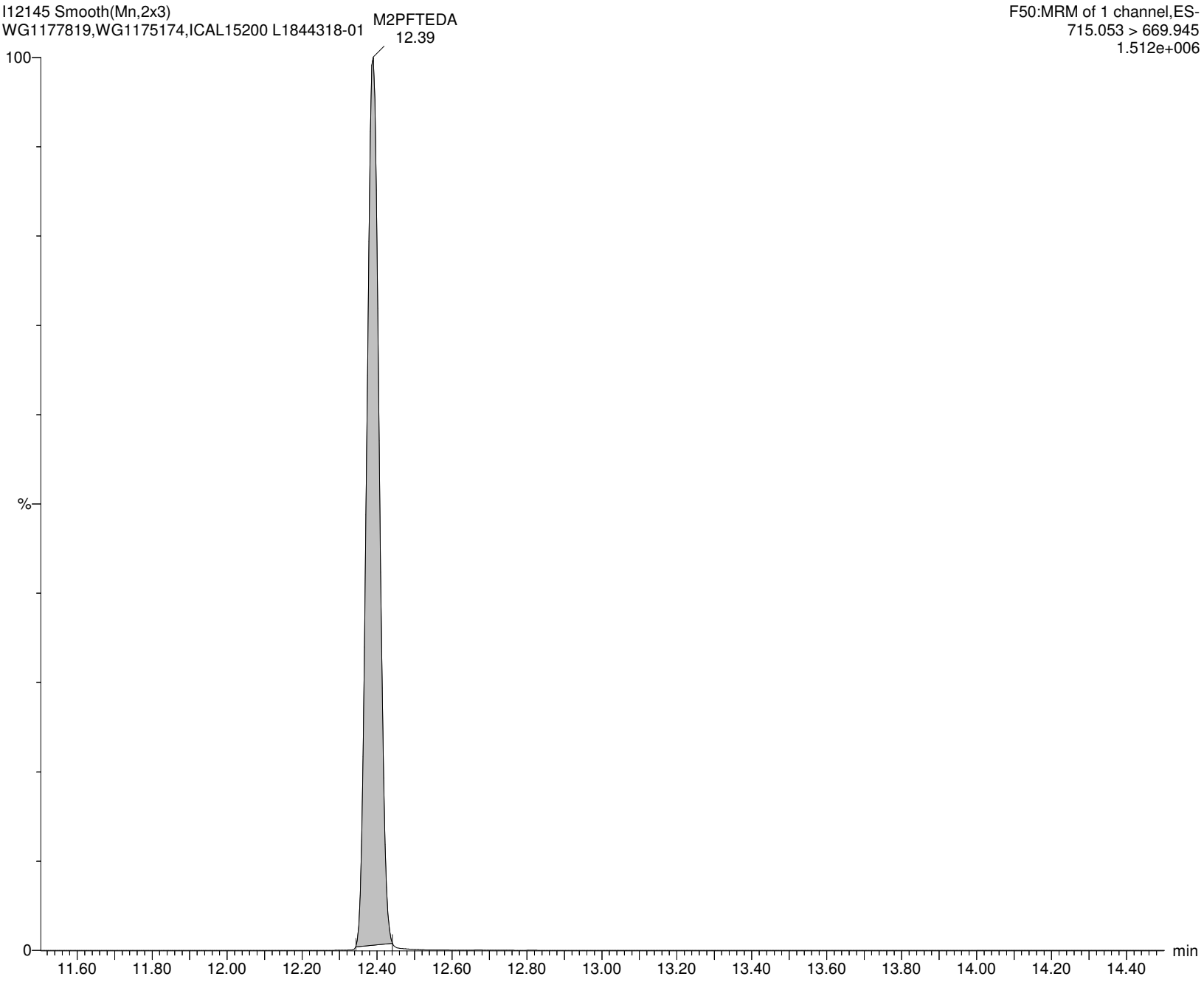

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:43 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-02
Name: I12146
Date: 10-Nov-2018
Time: 05:12:28
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	1250		0.311		na	
2	M3PFBA	INT STD	2.14	215.926 > 172.122	39601		4.278		na	42.8
3	MPFBA	INT STD	2.14	216.926 > 172.137	45929		12.210		na	122.1
4	PFPeA	2706-90-3	5.12	262.926 > 219.002	2010		0.330		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	64564		13.300		na	133.0
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	12617		10.304		na	103.0
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	6203		8.167		na	81.7
10	PFHxA	307-24-4	7.06	312.989 > 269.028	1997		0.250		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	82449		10.548		na	105.5
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	1066		0.100		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	108313		11.784		na	117.8
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8700		12.791		na	127.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	2637		0.264	11.27	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	108503		5.747		na	57.5
22	PFOA	335-67-1		412.989 > 368.9	2637		0.264		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	102429		11.706		na	117.1
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	4693		7.443		na	74.4
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	89946		10.306		na	103.1
29	br-PFOS	1763-23-1	9.88	498.989 > 80.294	257		0.159	2.67	NO	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	897		0.780	1.73	YES	
31	PFOS	1763-23-1		498.989 > 80.294	1154		0.939		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	9823		6.064		na	60.6
33	M8PFOS	INT STD	10.07	507.053 > 80.294	11011		12.021		na	120.2
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	81451		5.479		na	54.8
36	M6PFDA	INT STD	10.65	519.053 > 473.931	83258		11.321		na	113.2
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2634		7.115		na	71.2
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:43 Eastern Standard Time

ID: L1844318-02
Name: I12146
Date: 10-Nov-2018
Time: 05:12:28
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6794		8.569		na	85.7
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	78295		12.719		na	127.2
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	7844		2.989		na	29.9
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	6168		8.065		na	80.6
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	75124		10.862		na	108.6
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	59480		11.611		na	116.1

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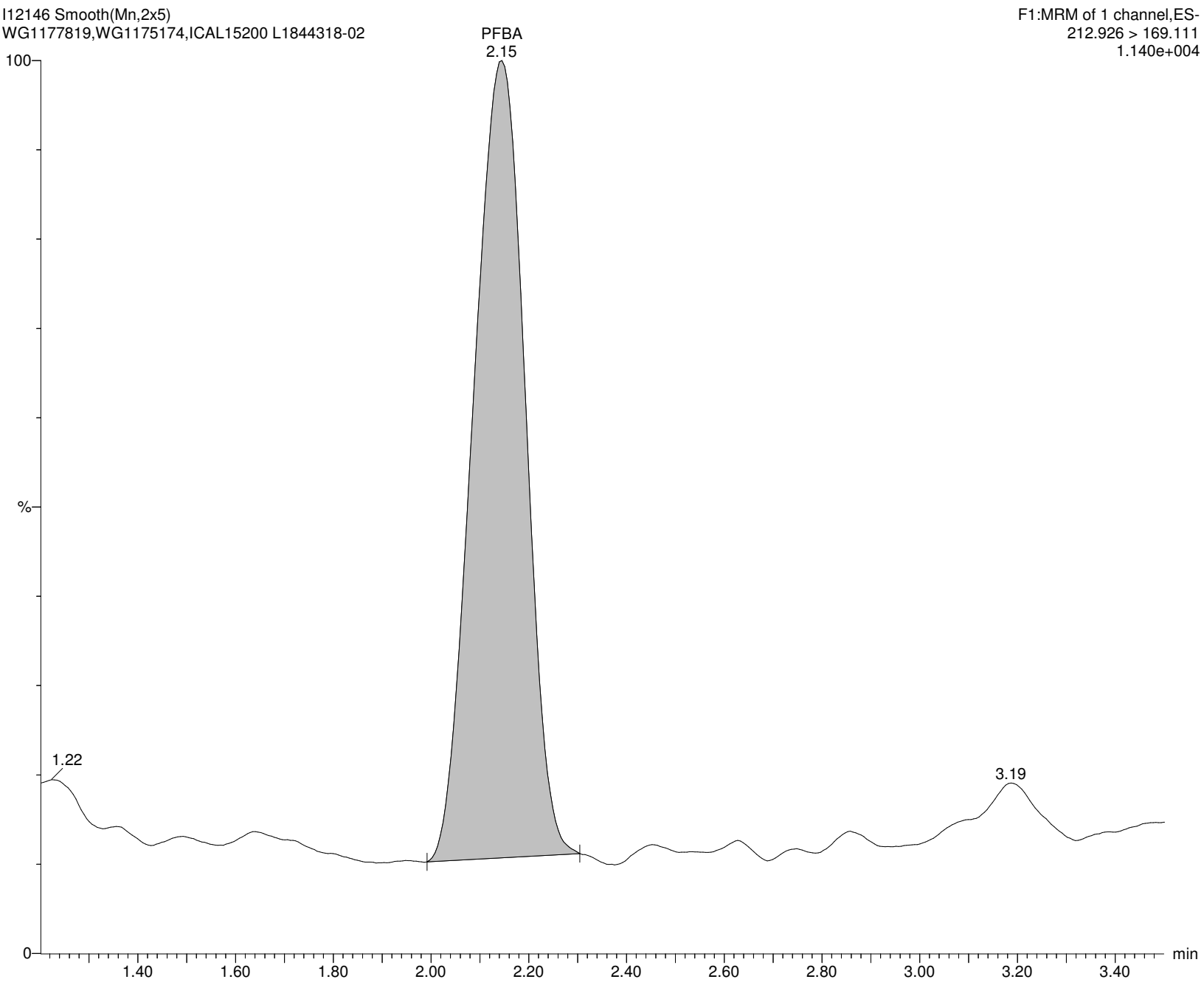

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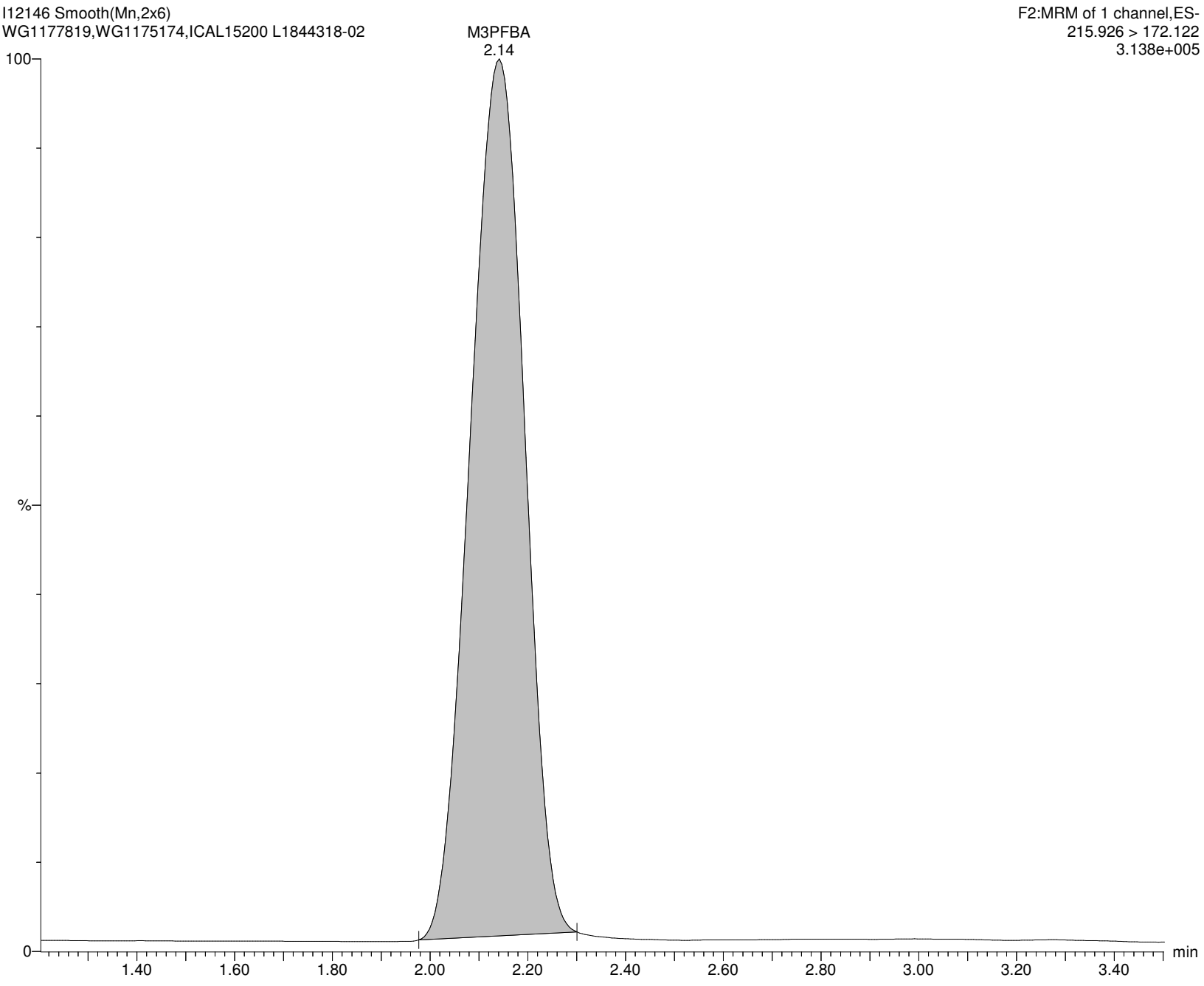

all concentration units in (ng/mL)

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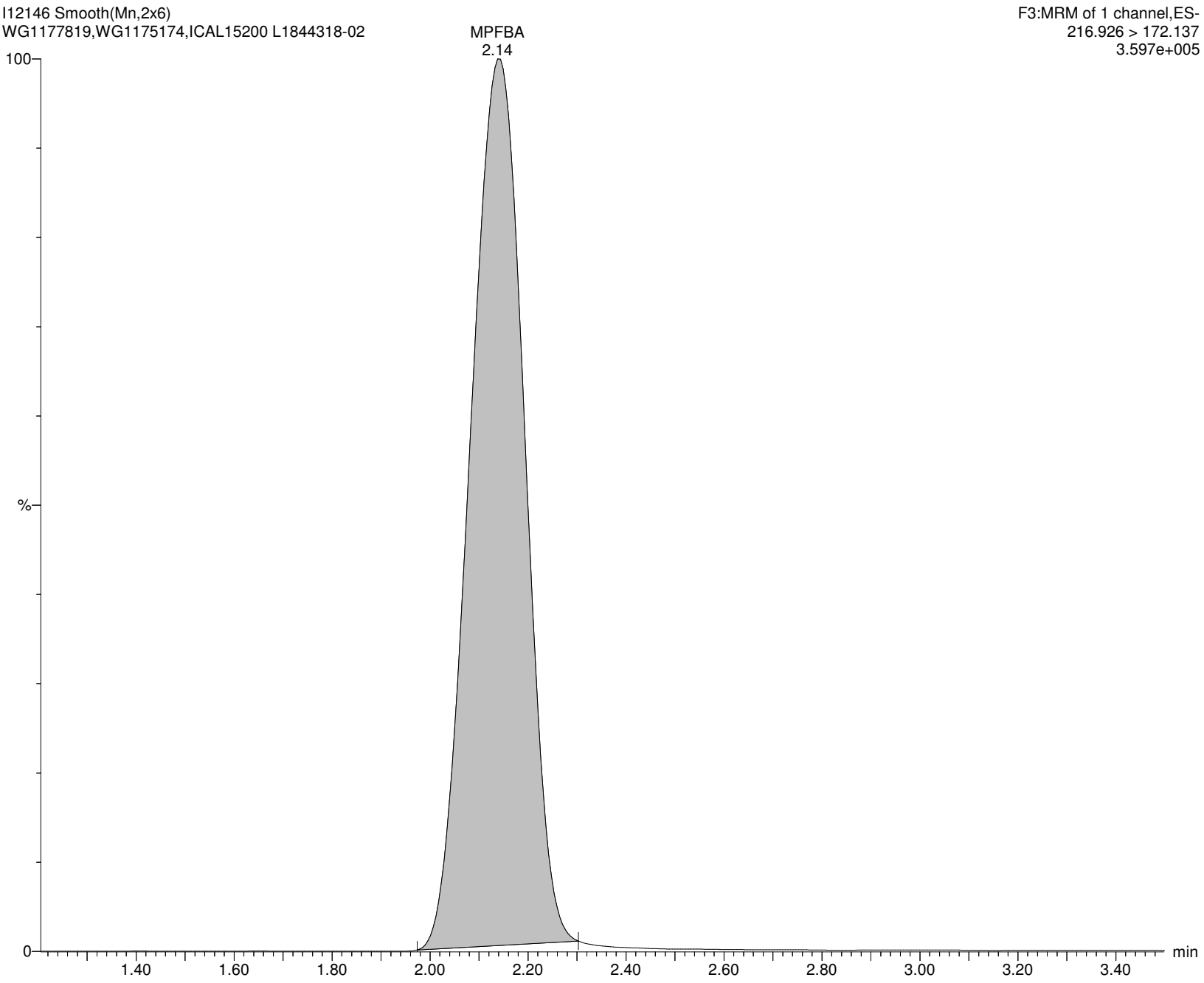

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Date: 10-Nov-2018
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User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
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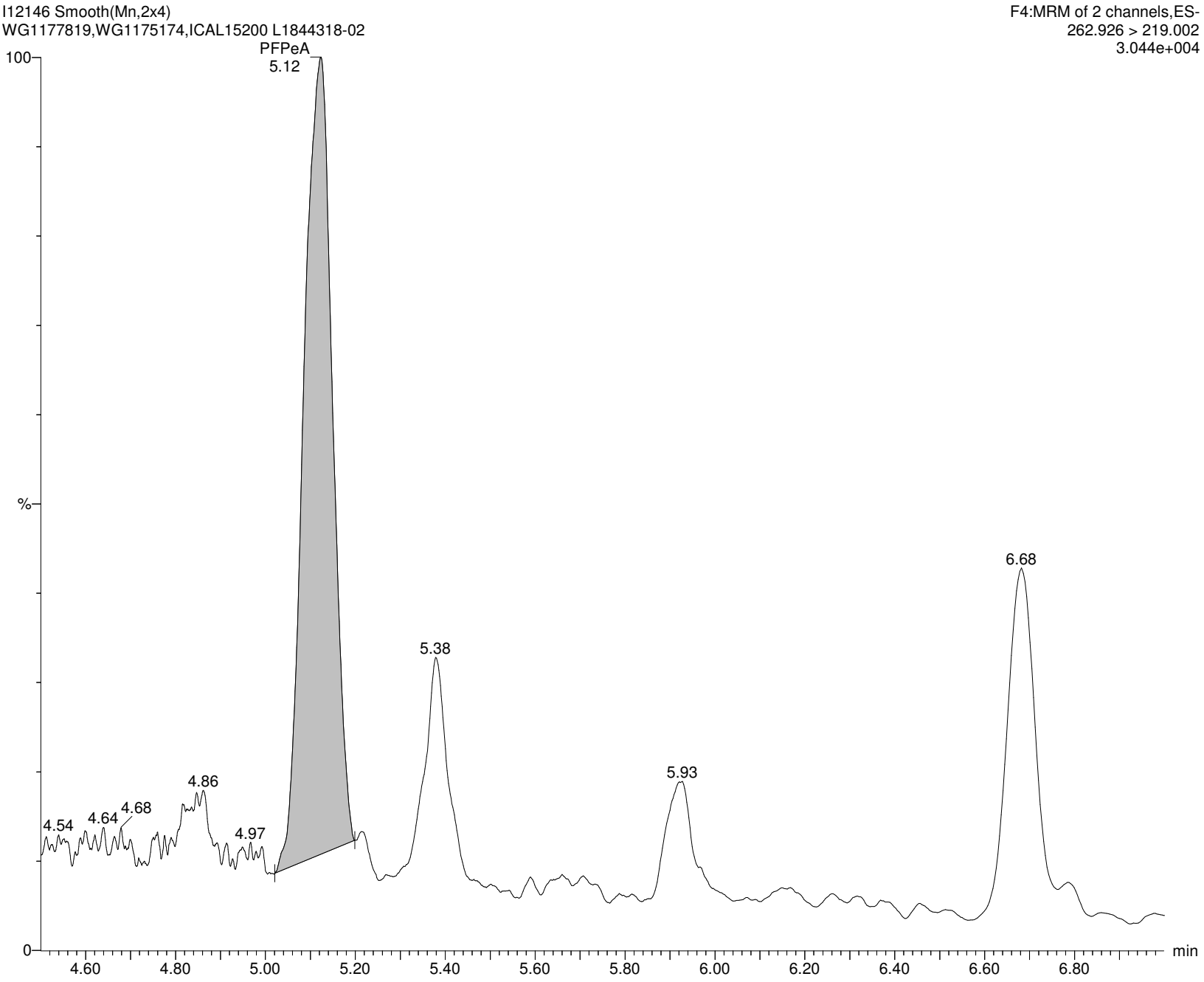

all concentration units in (ng/mL)

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Date: 10-Nov-2018
Time: 05:12:28
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User: LCMS01:AJ
Vial: 1:B,7
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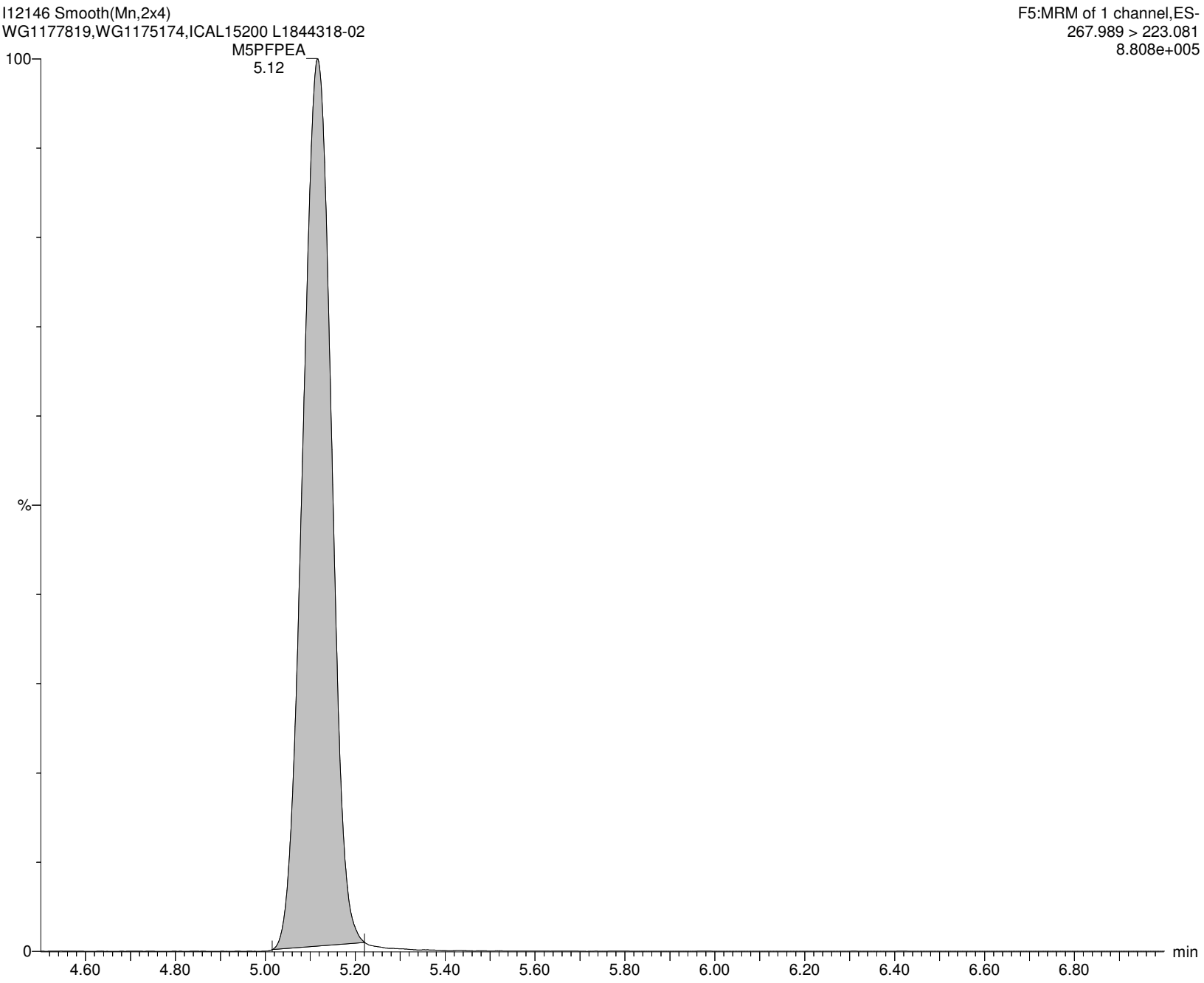

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 05:12:28
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User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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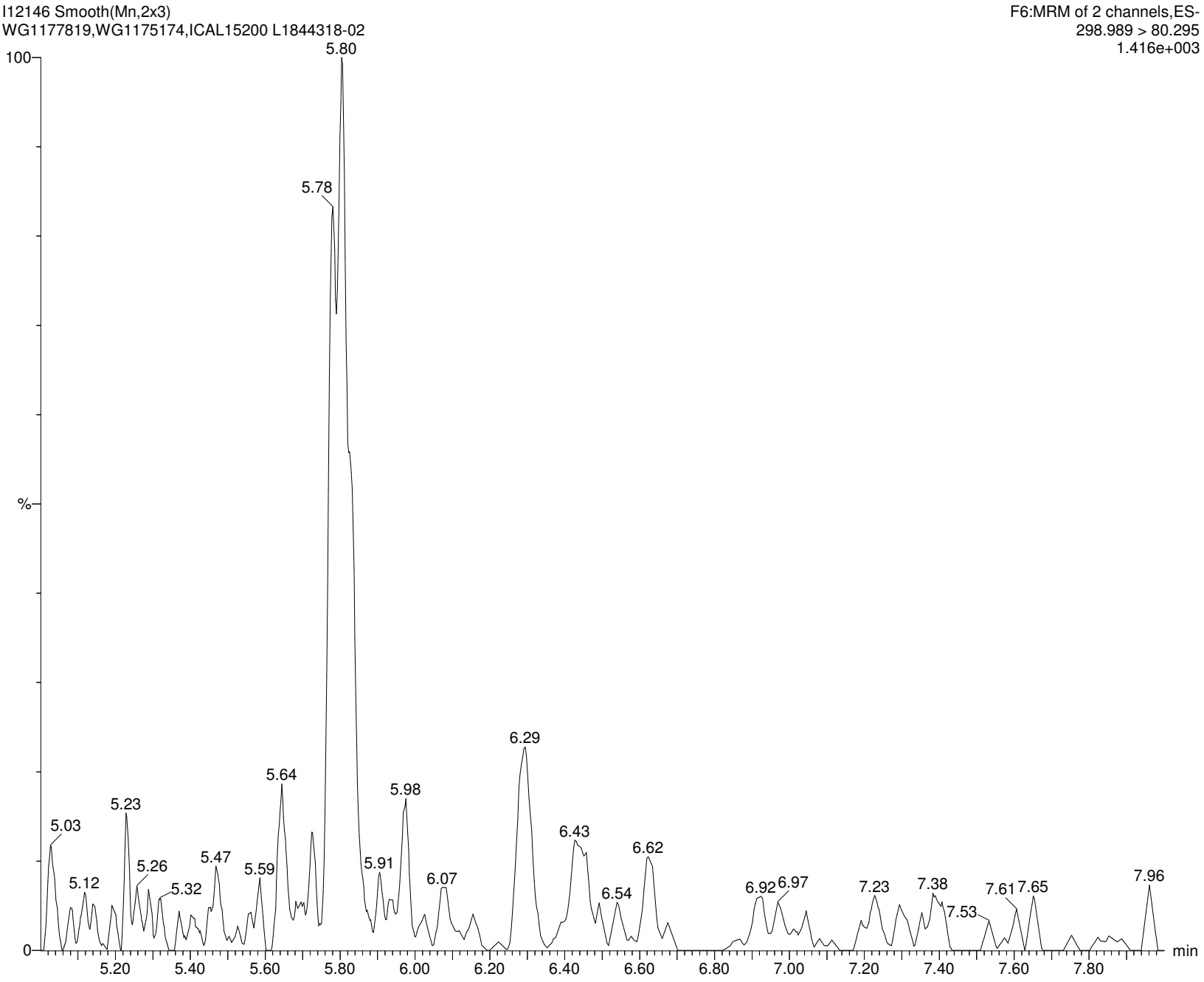

all concentration units in (ng/mL)

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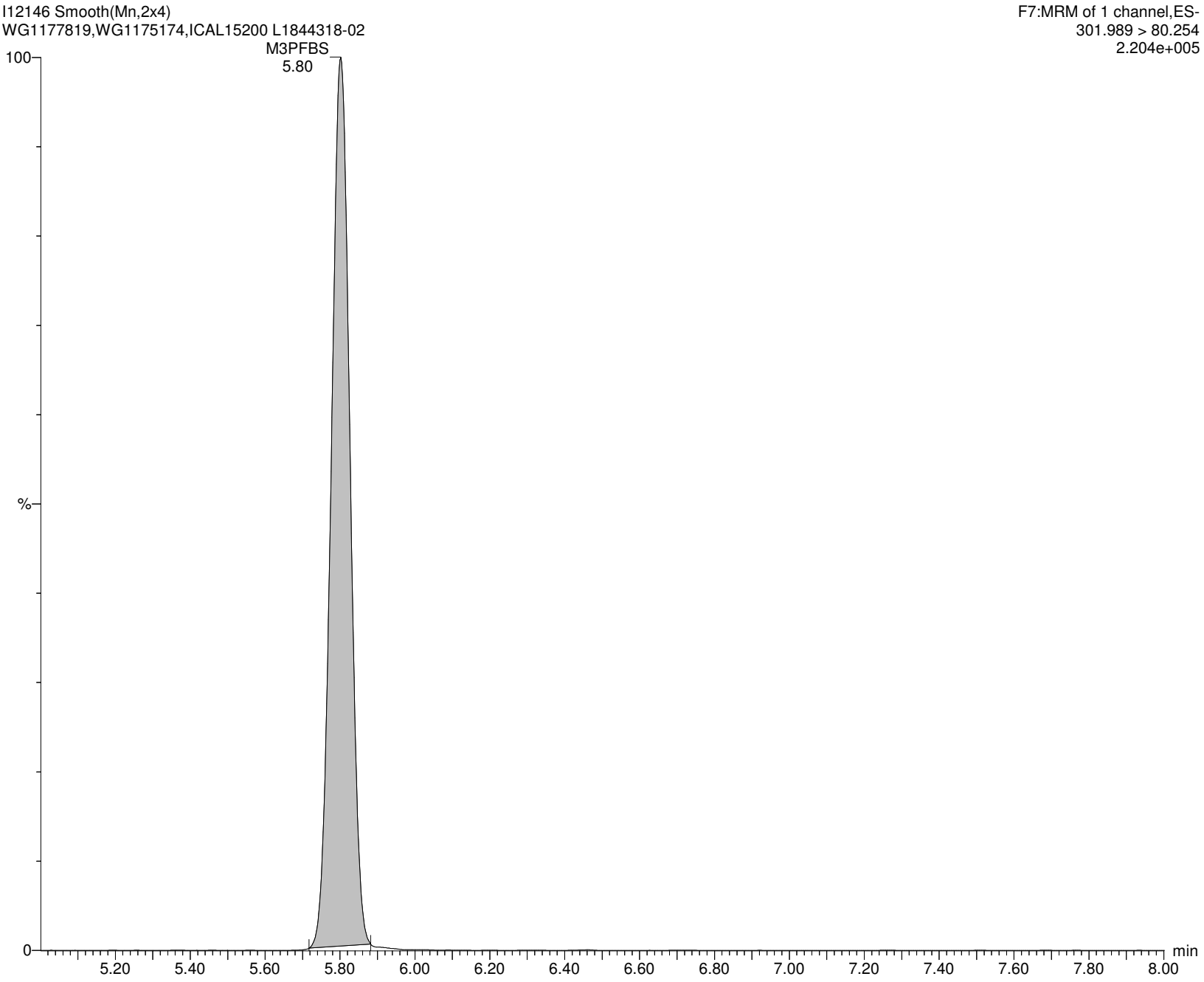
M3PFBS



all concentration units in (ng/mL)

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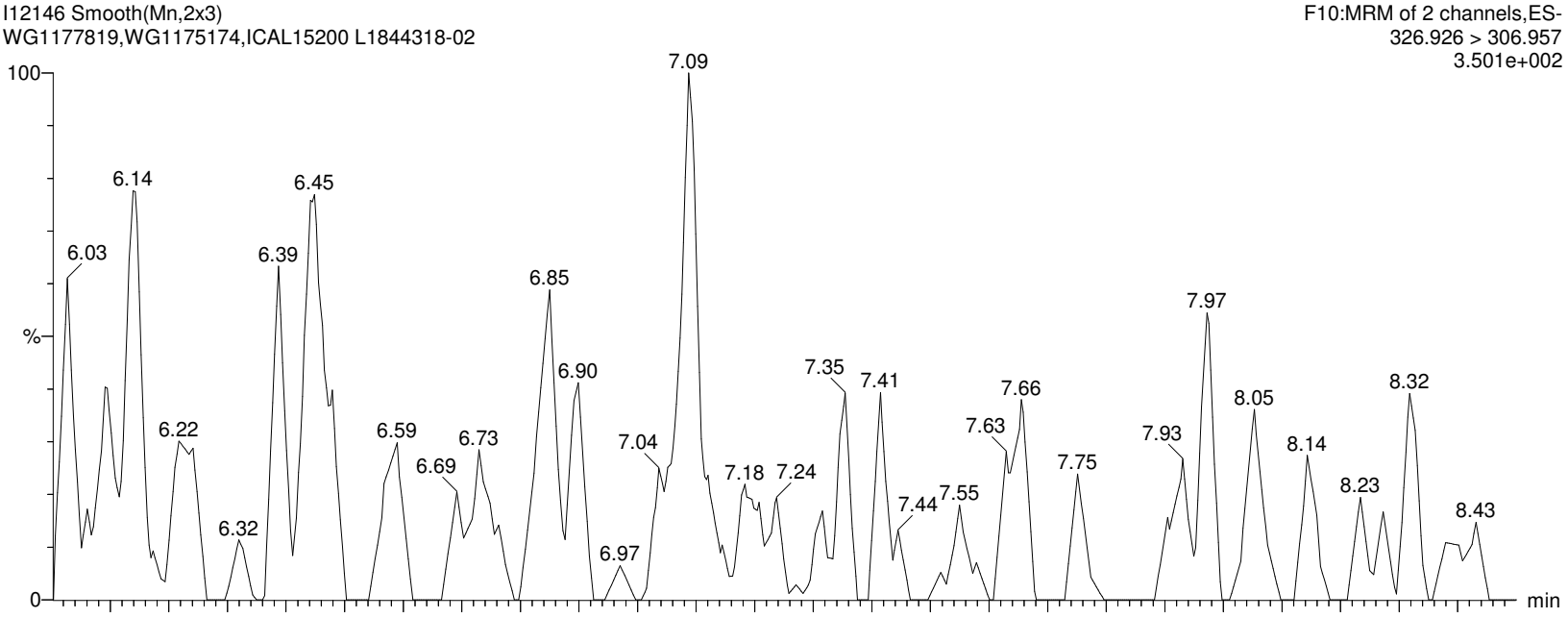
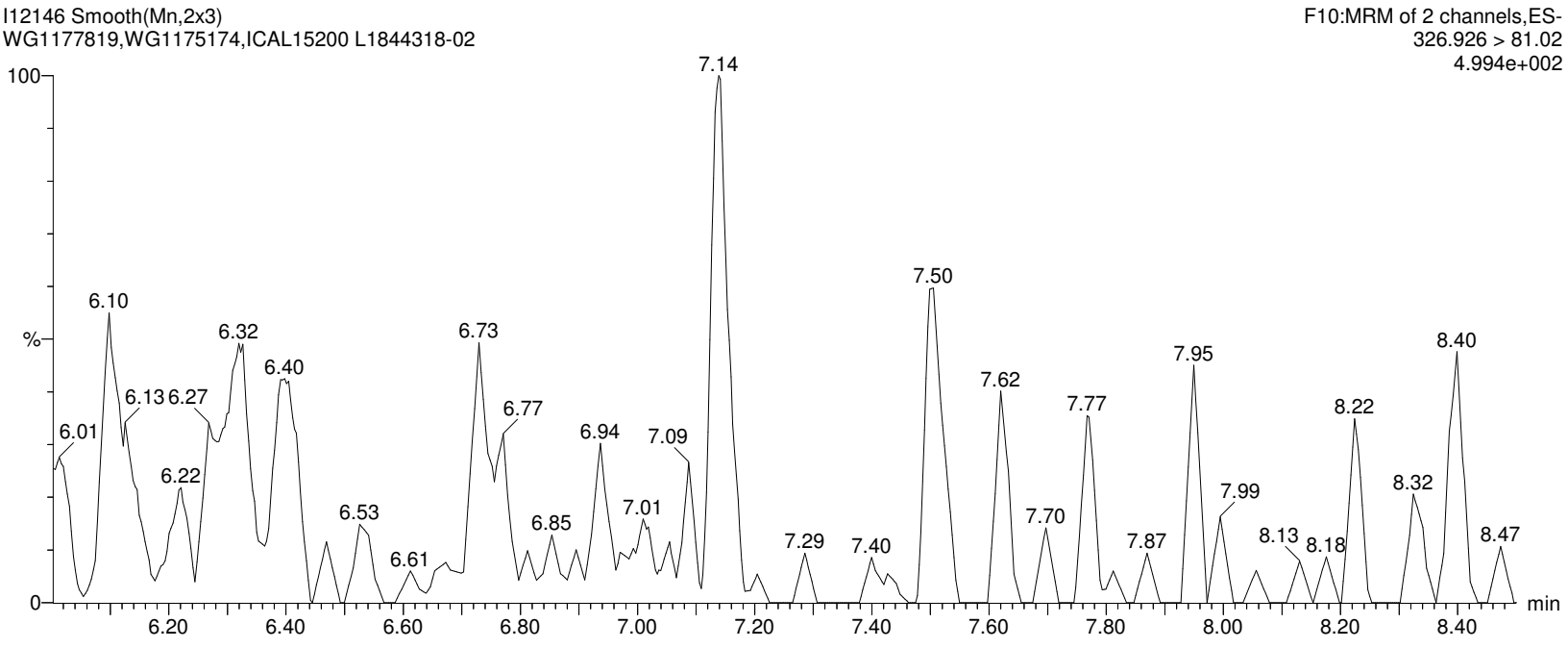
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

4:2FTS





all concentration units in (ng/mL)

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User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
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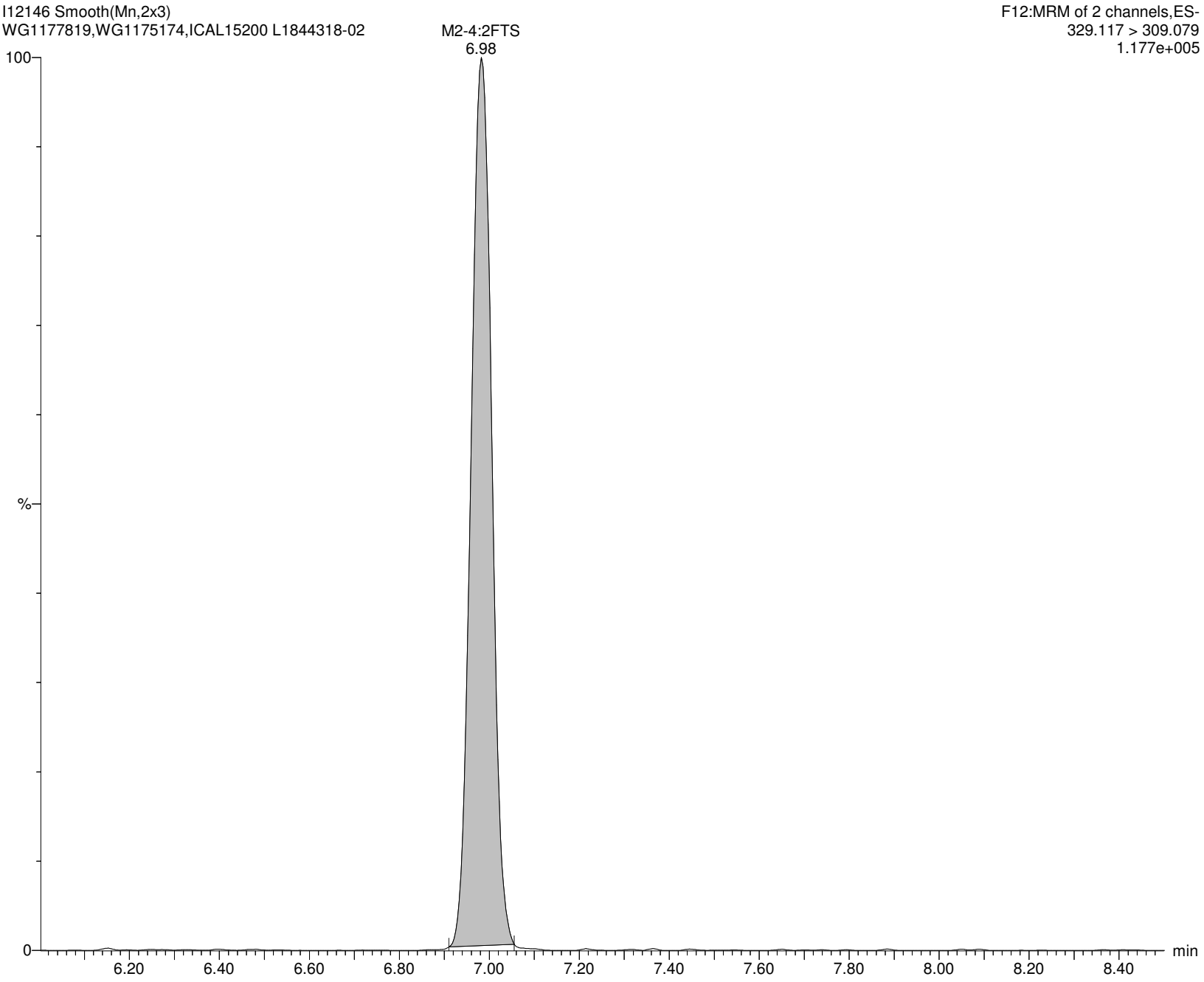
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2-4:2FTS



all concentration units in (ng/mL)

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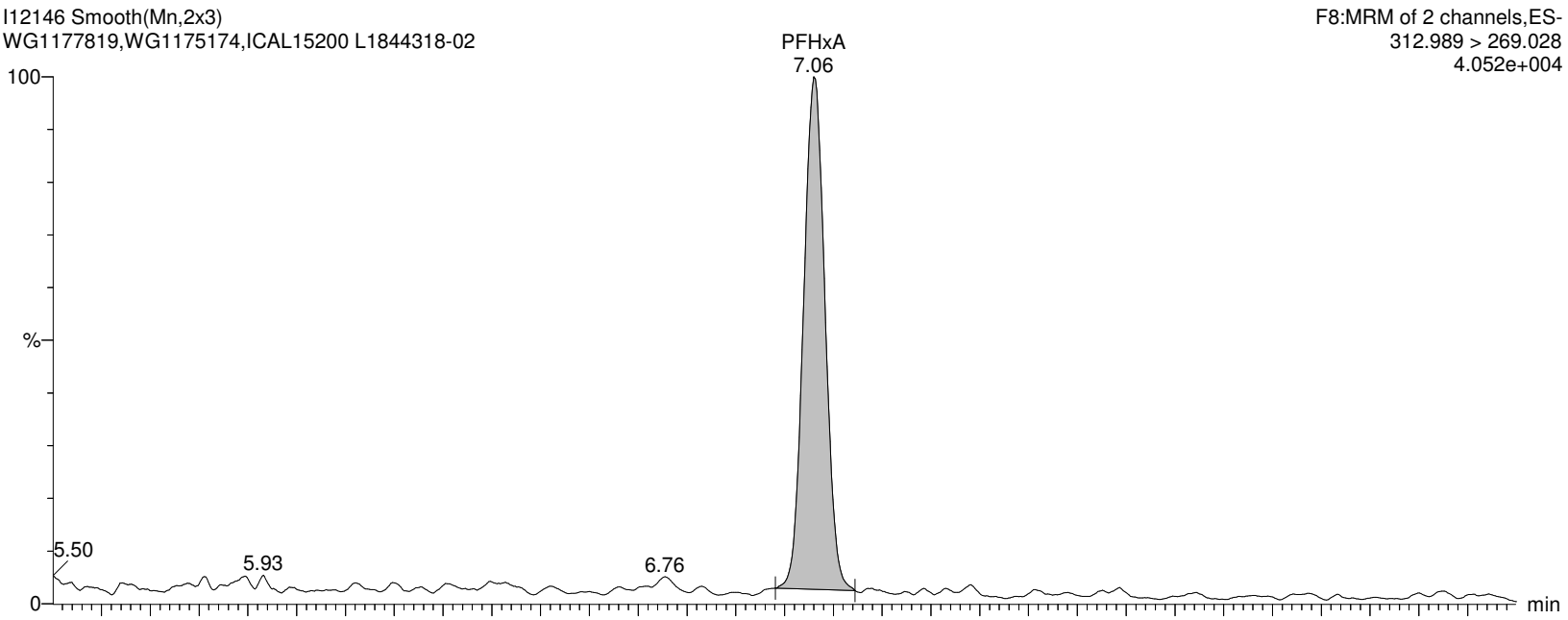

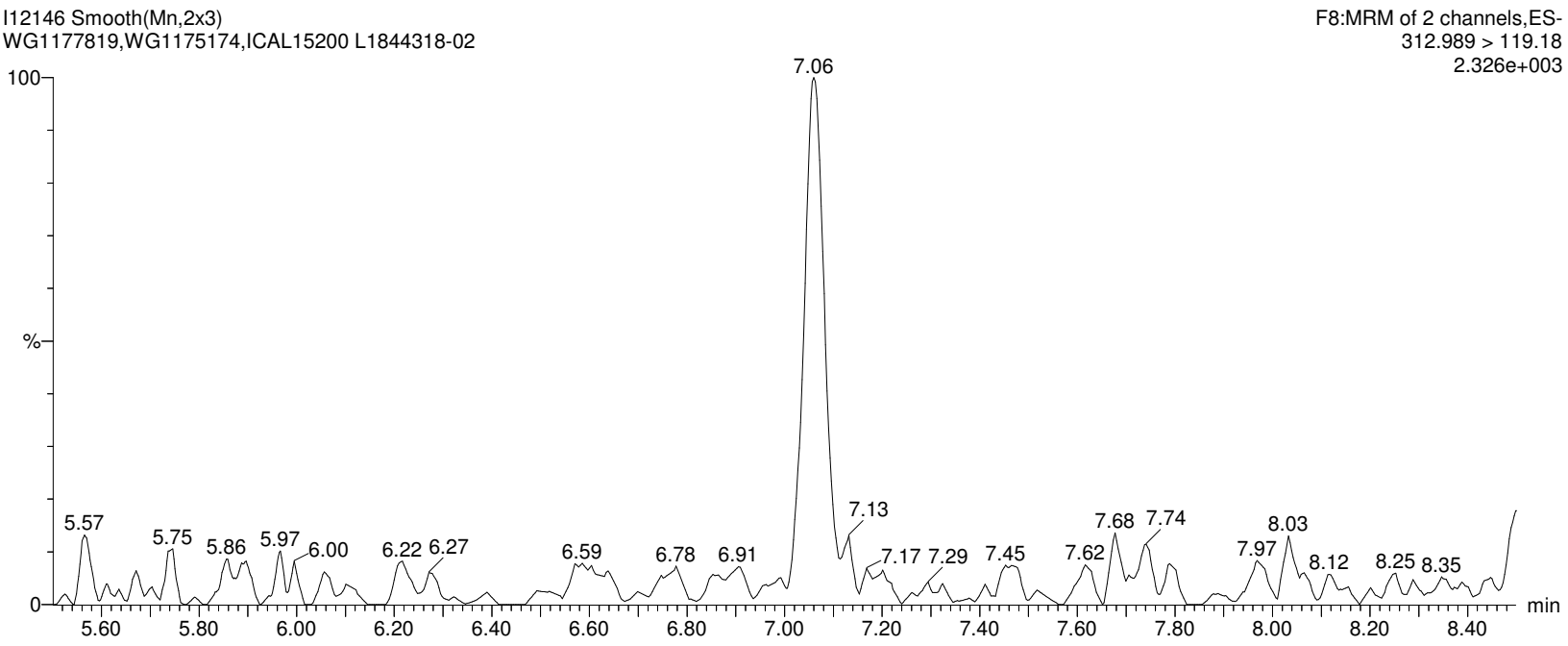

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12146
ID: L1844318-02
Date: 10-Nov-2018
Time: 05:12:28
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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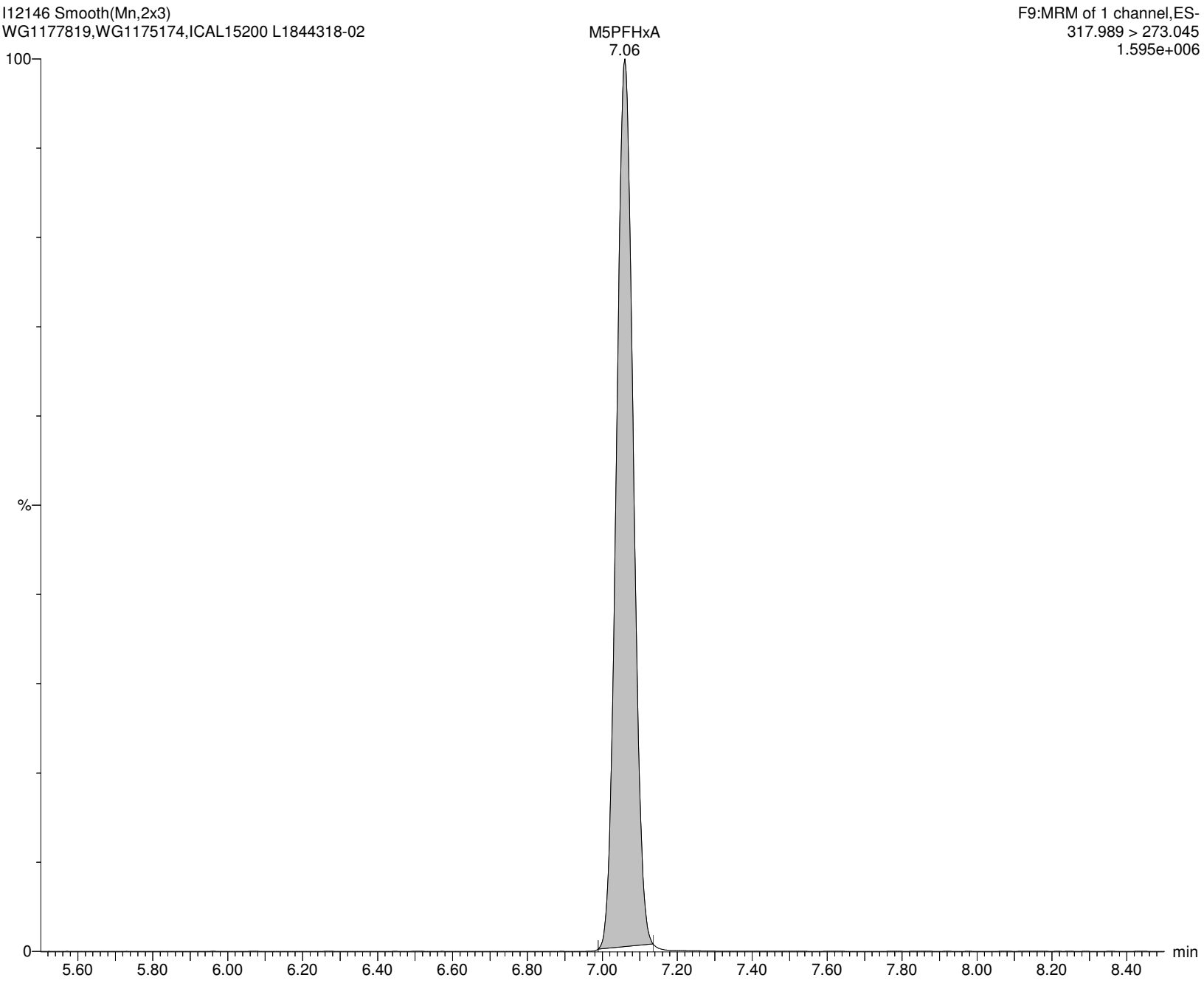

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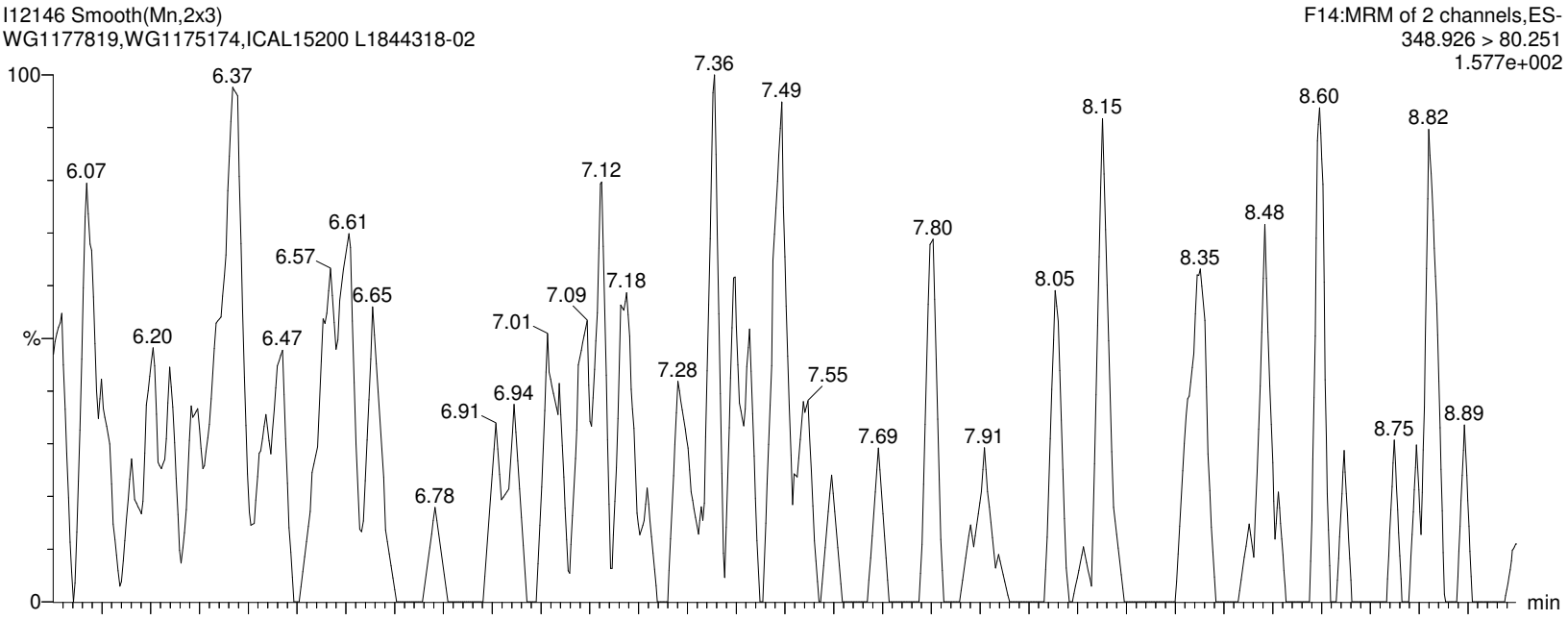

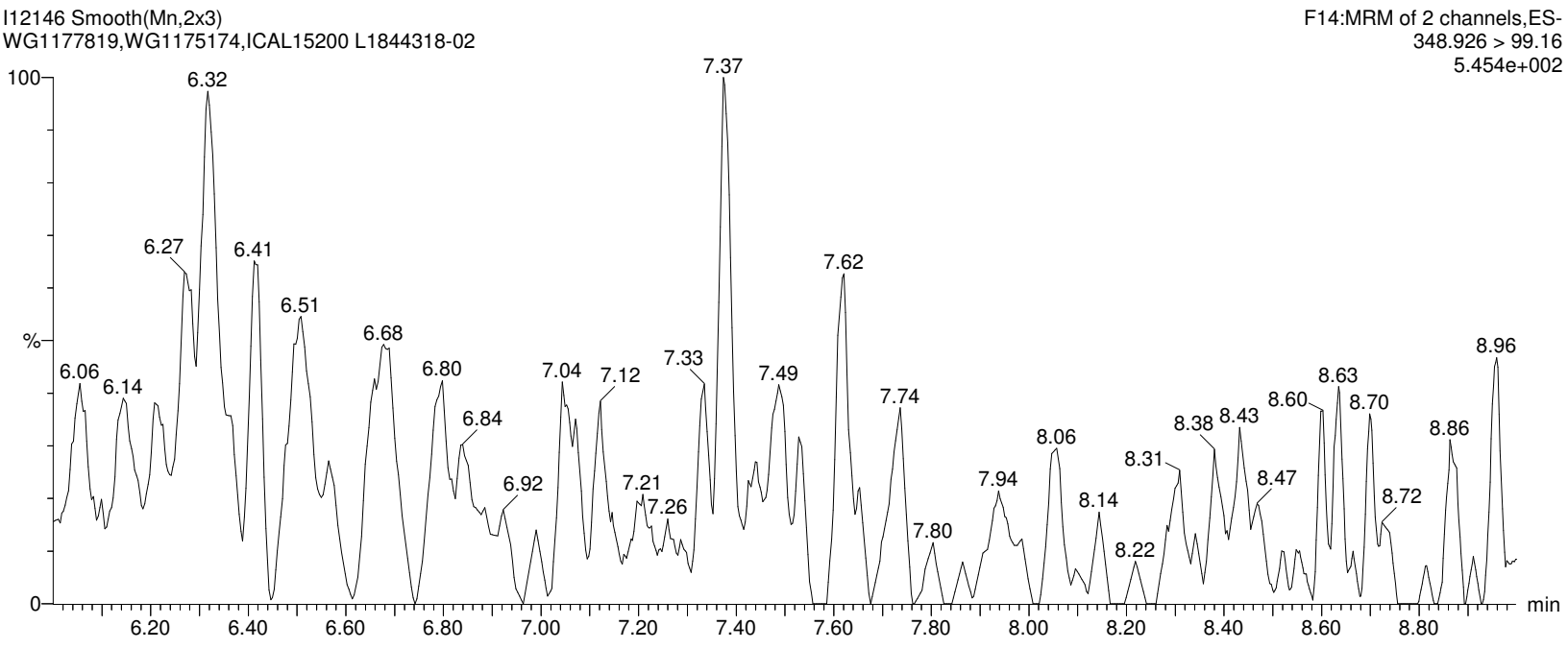

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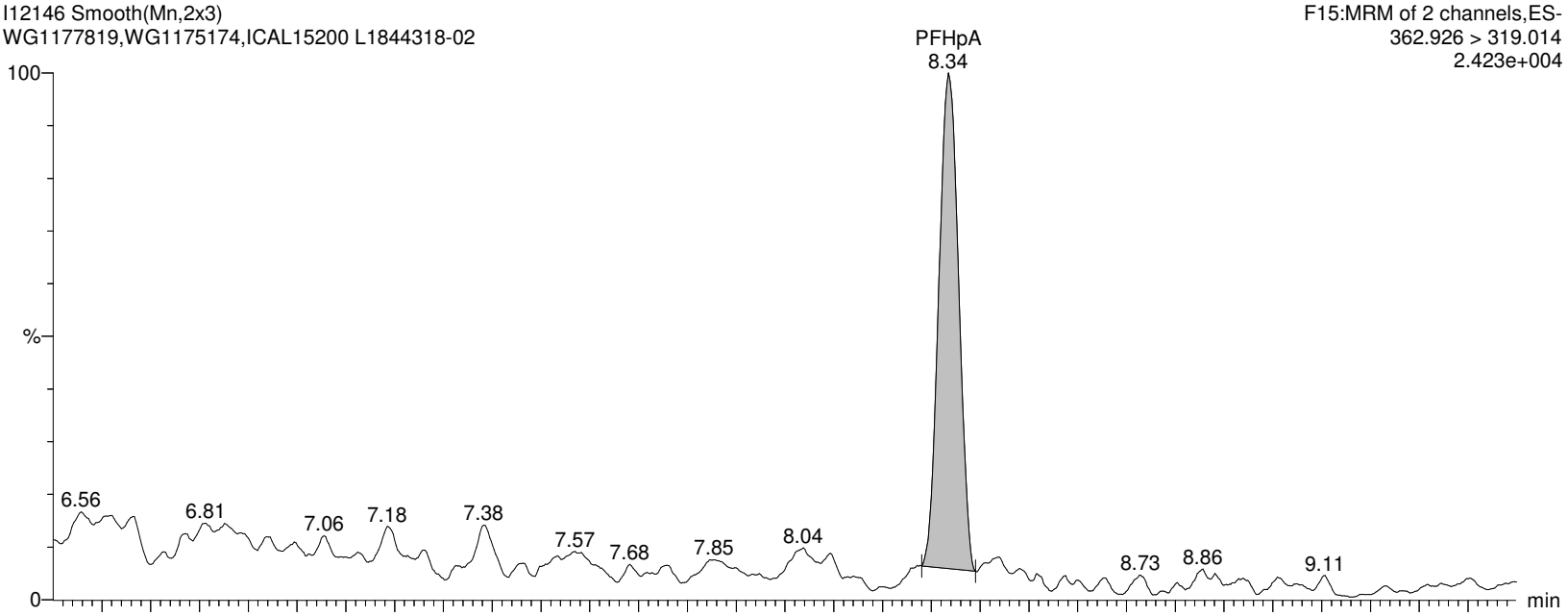

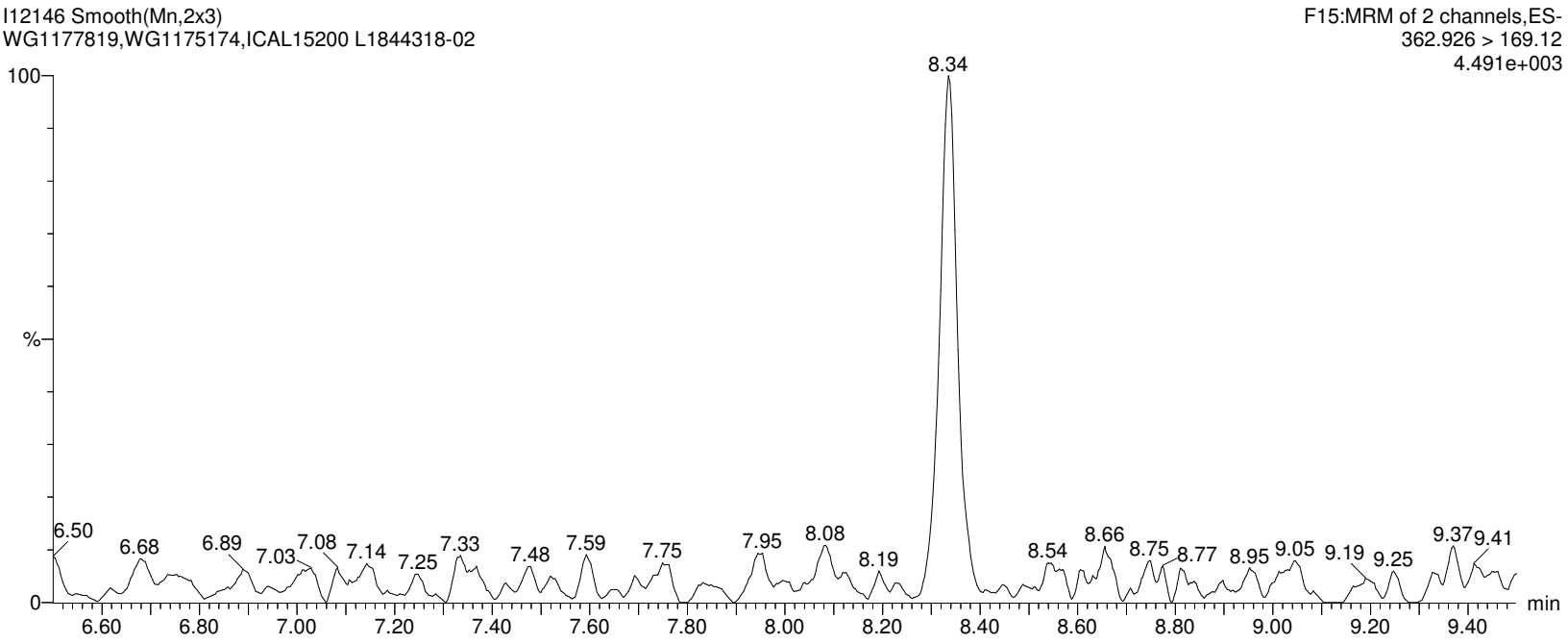

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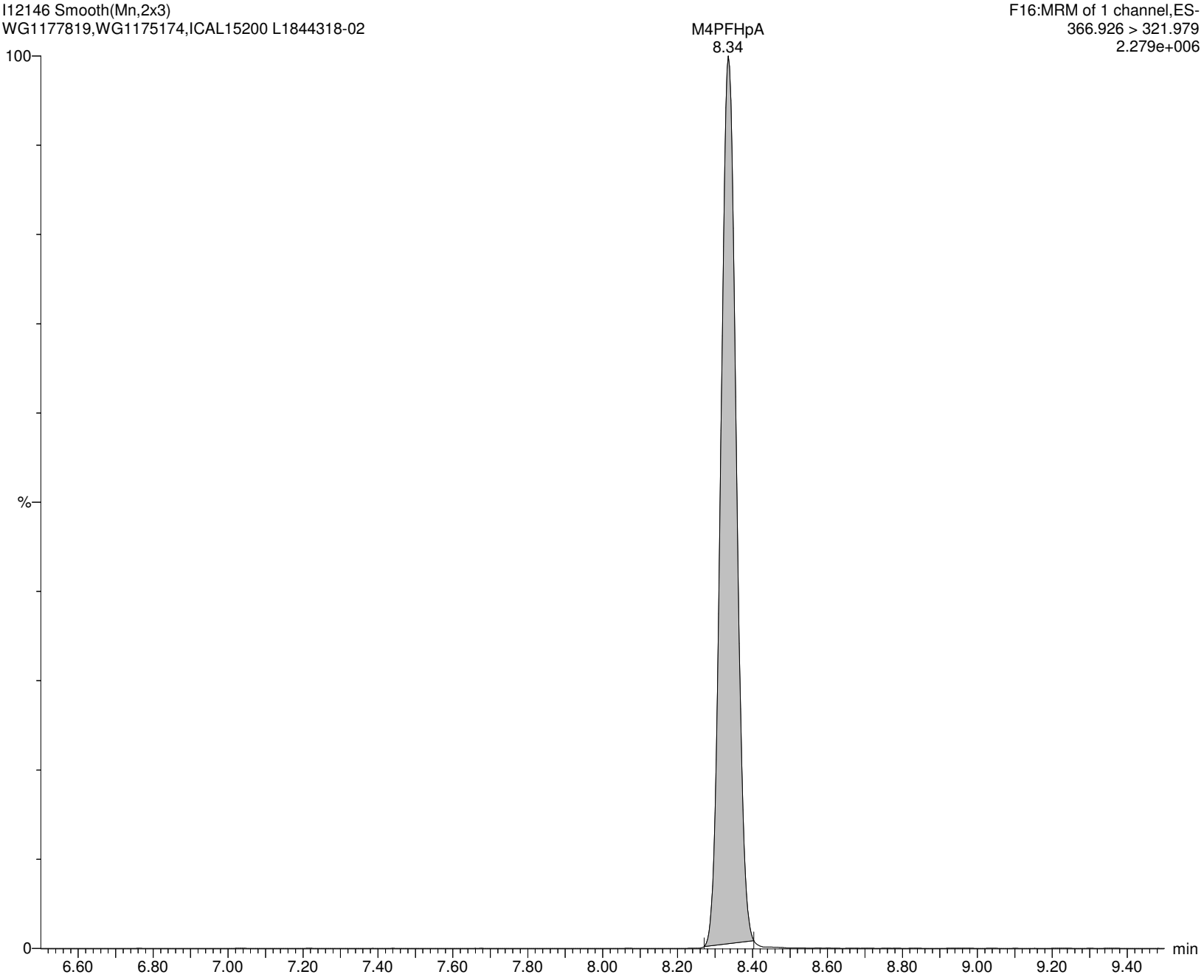

all concentration units in (ng/mL)

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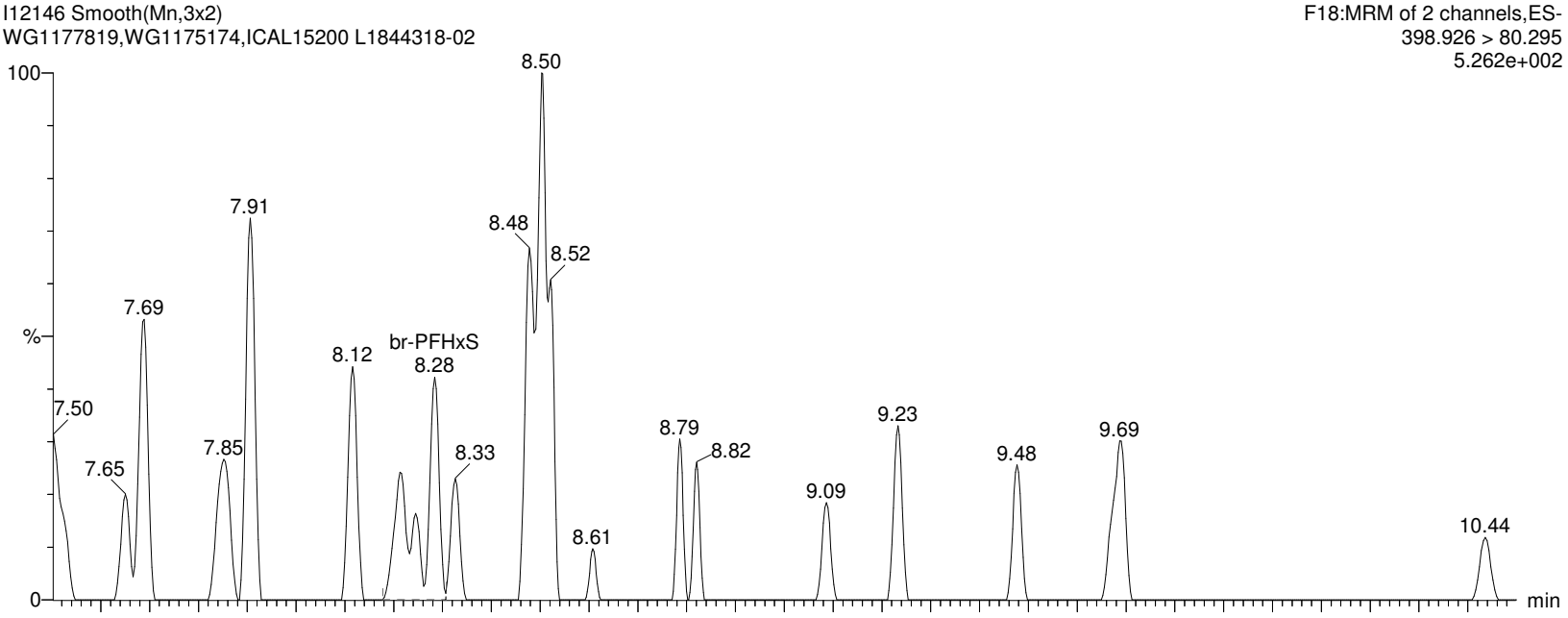

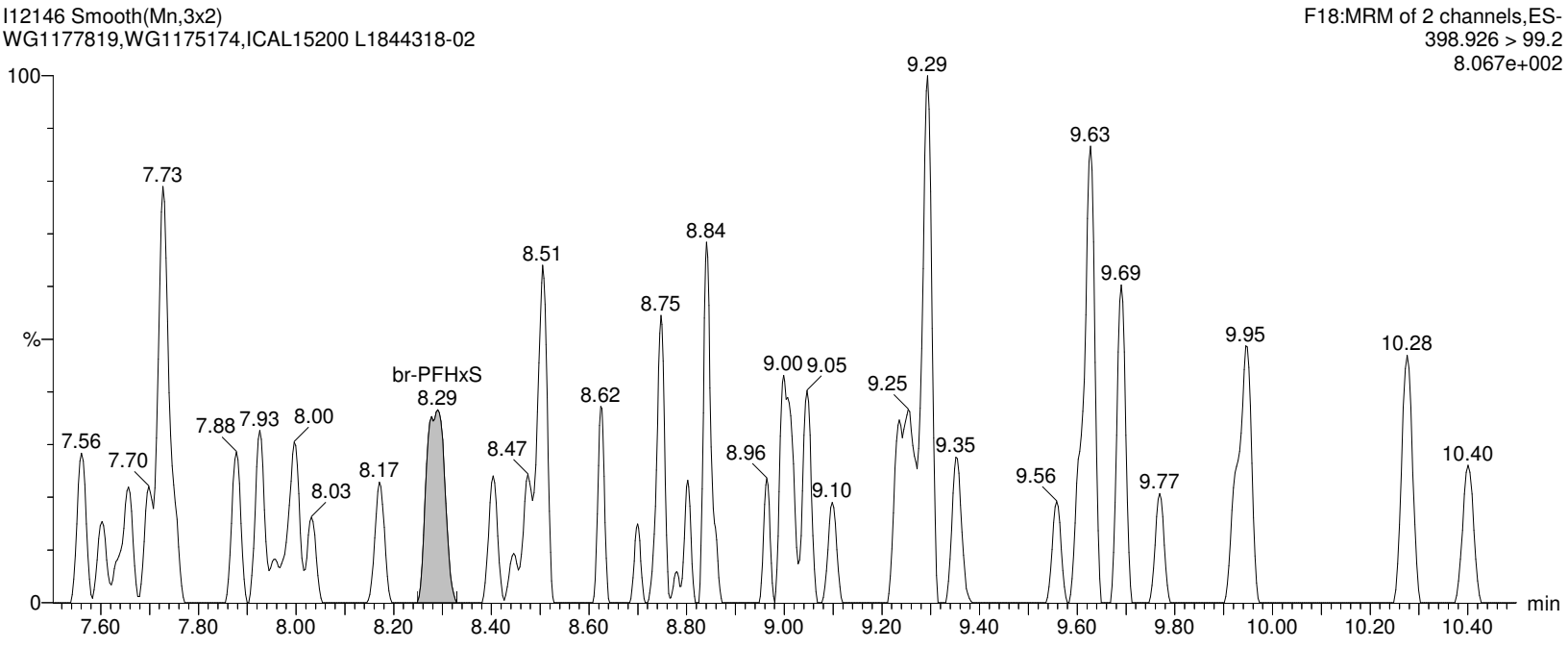

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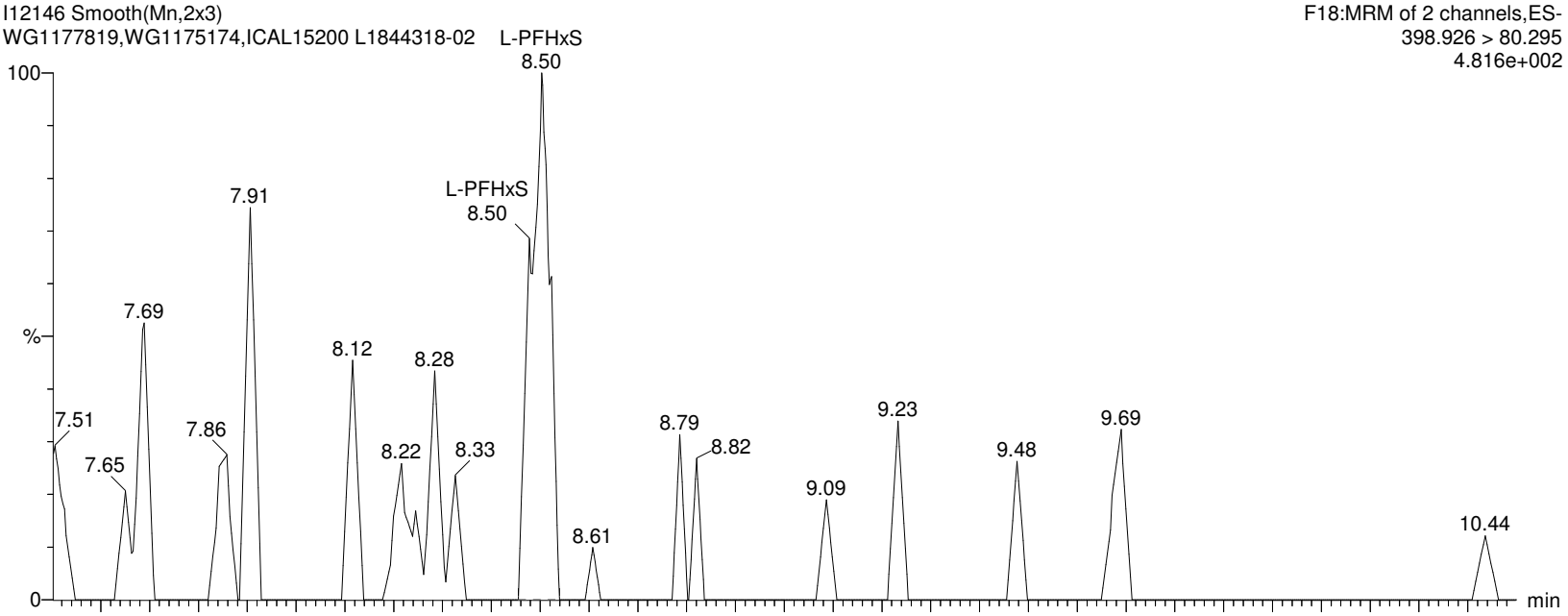

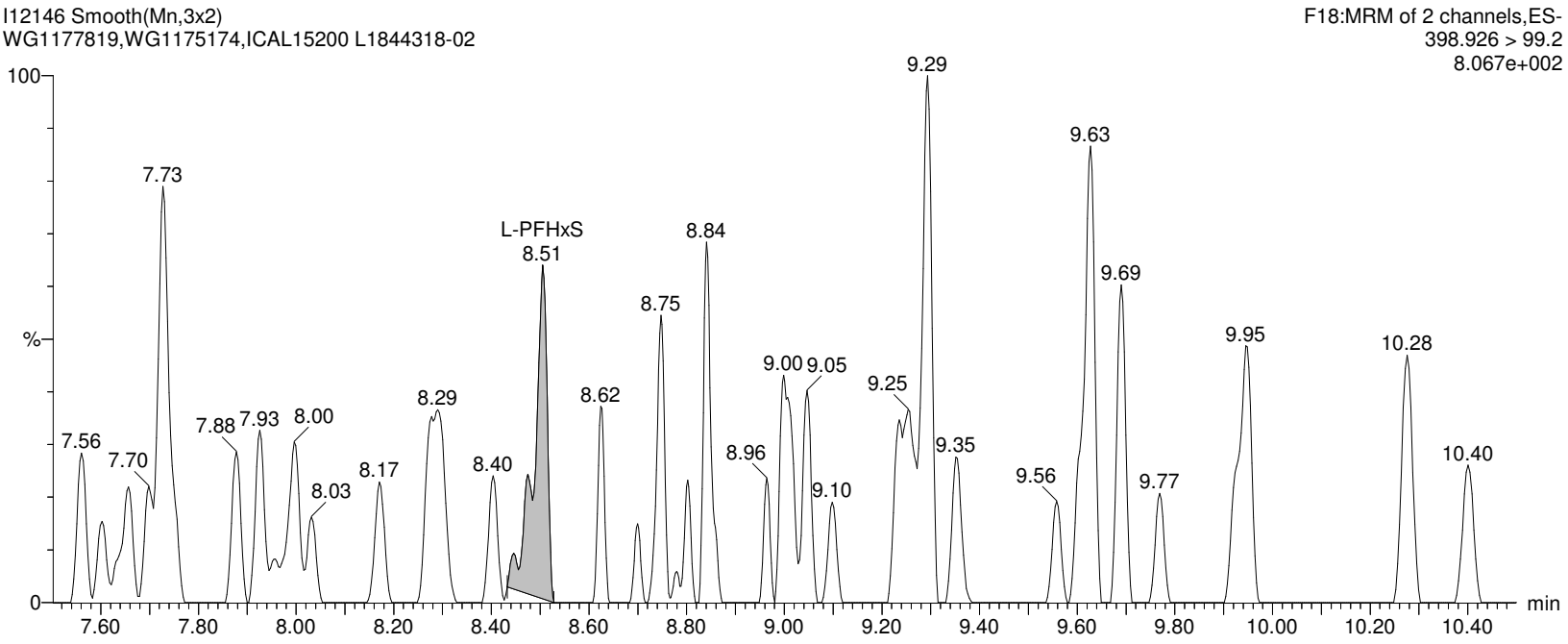

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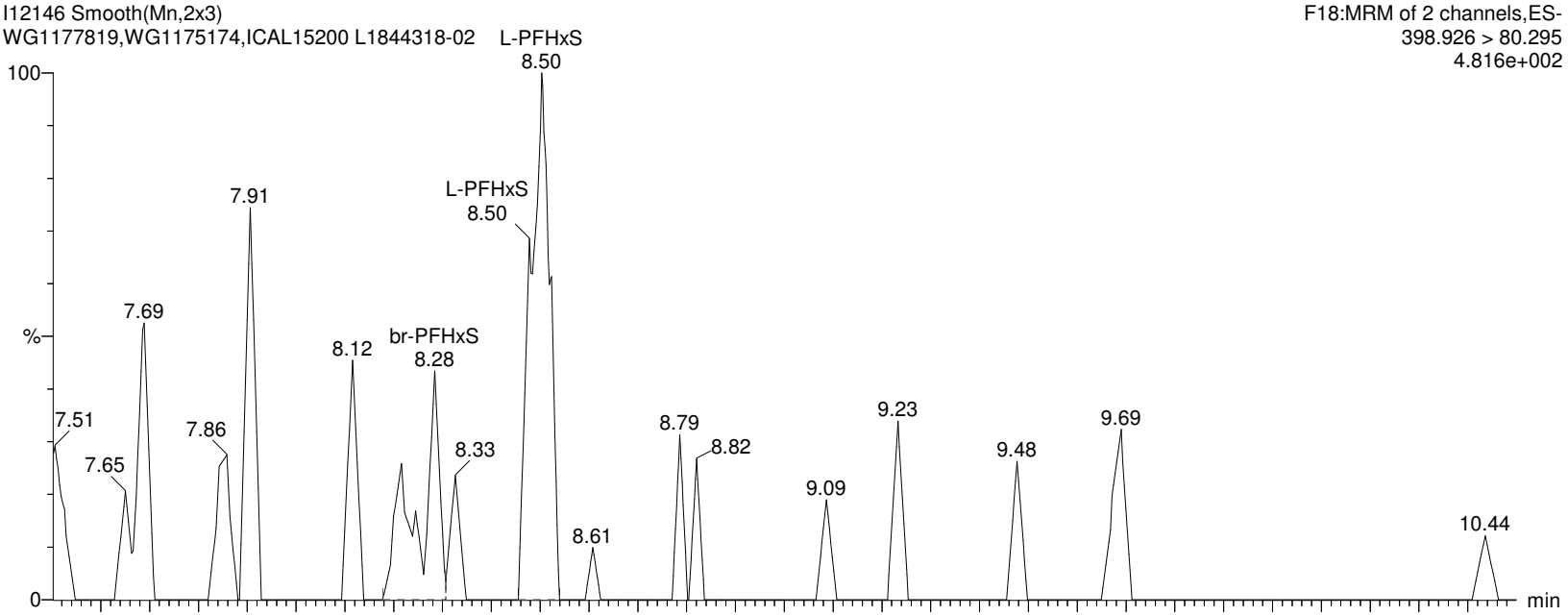

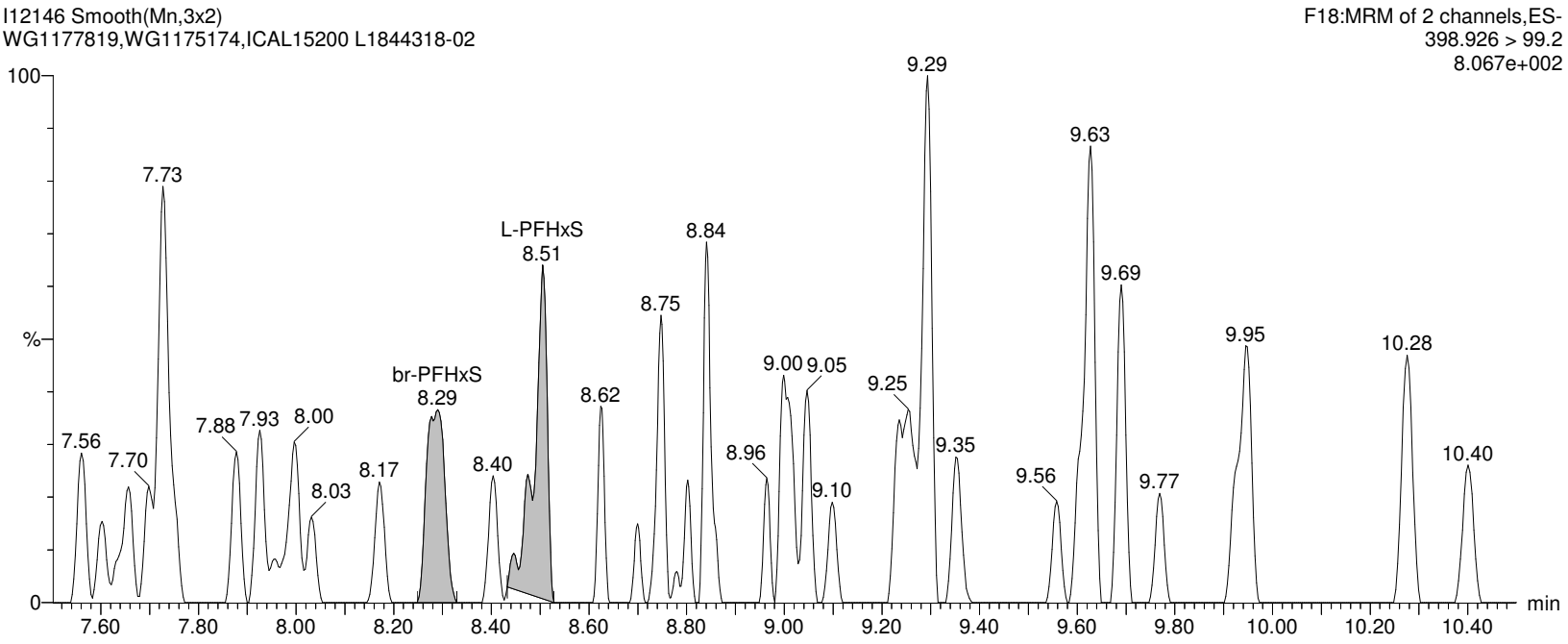

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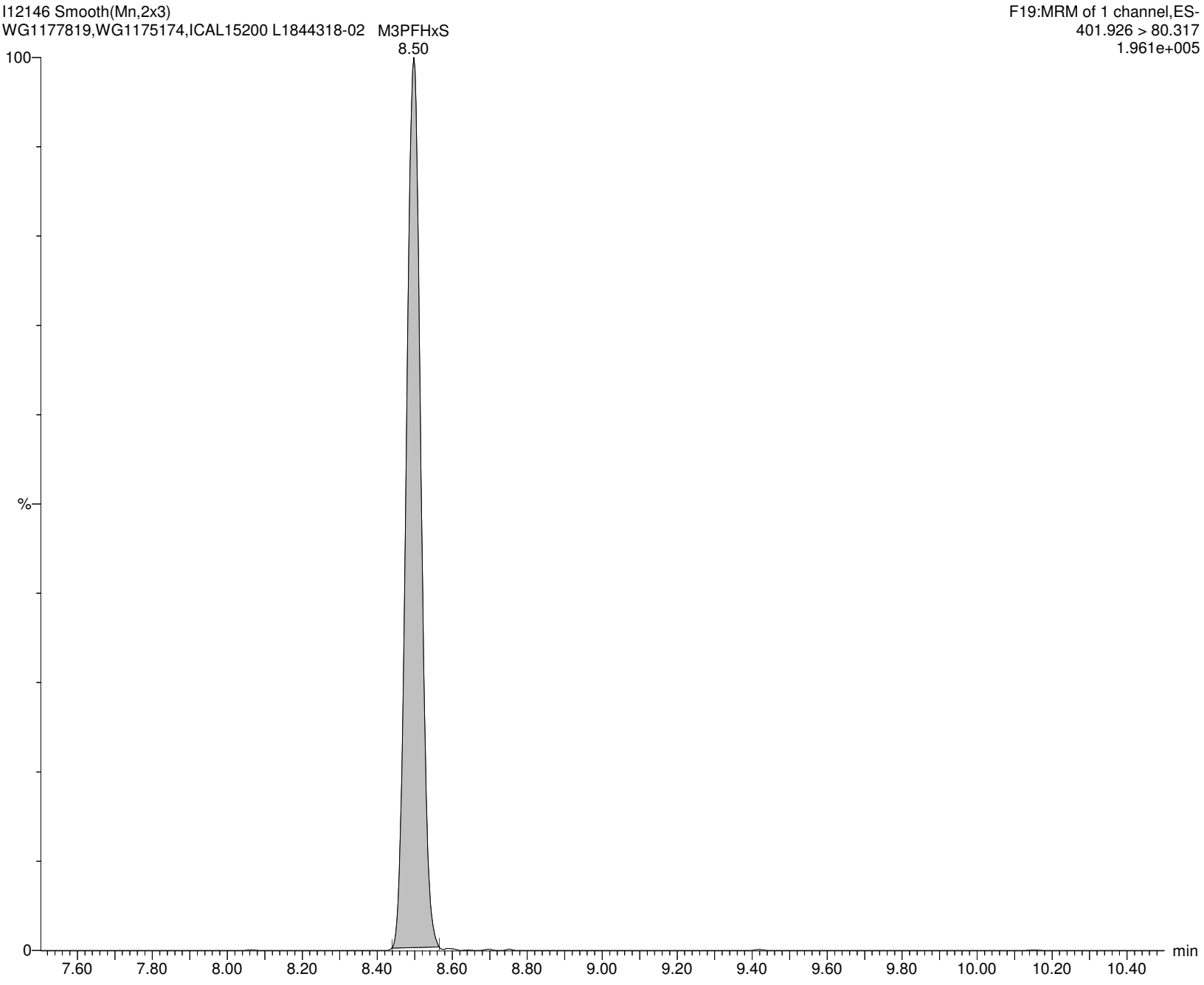

all concentration units in (ng/mL)

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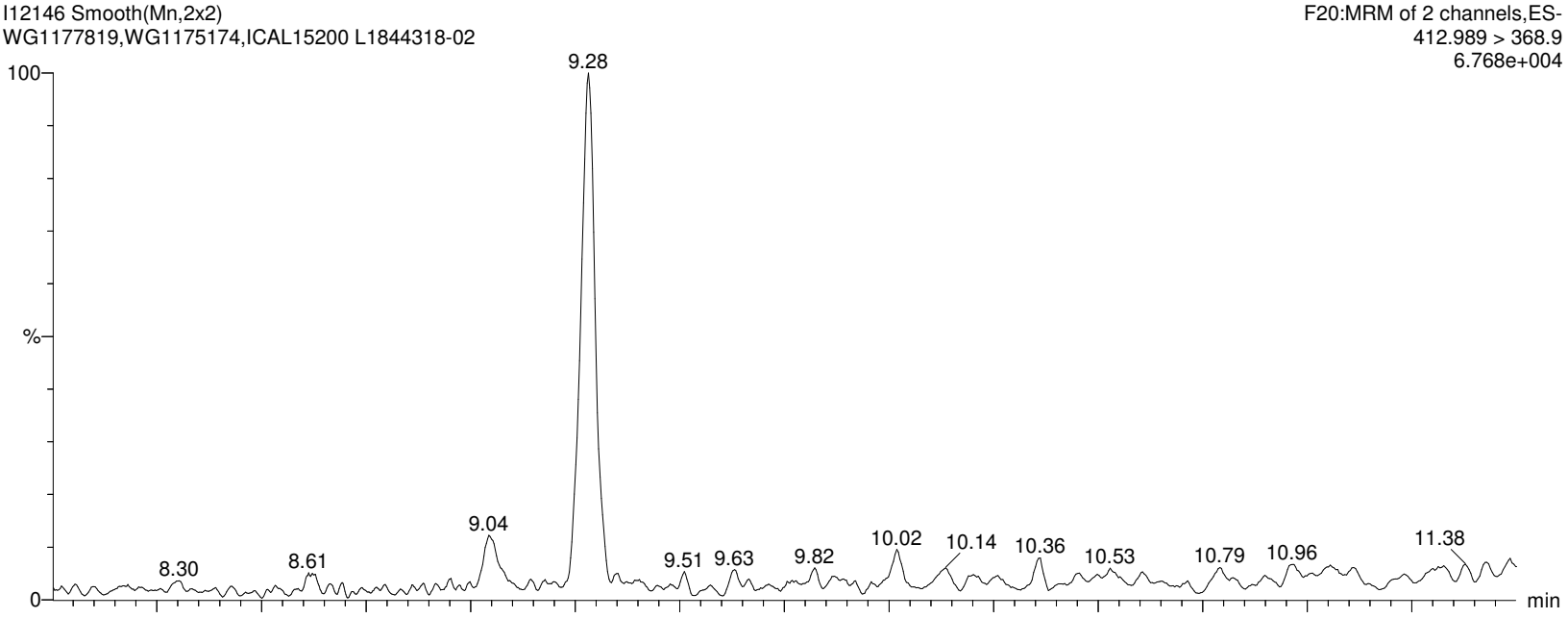

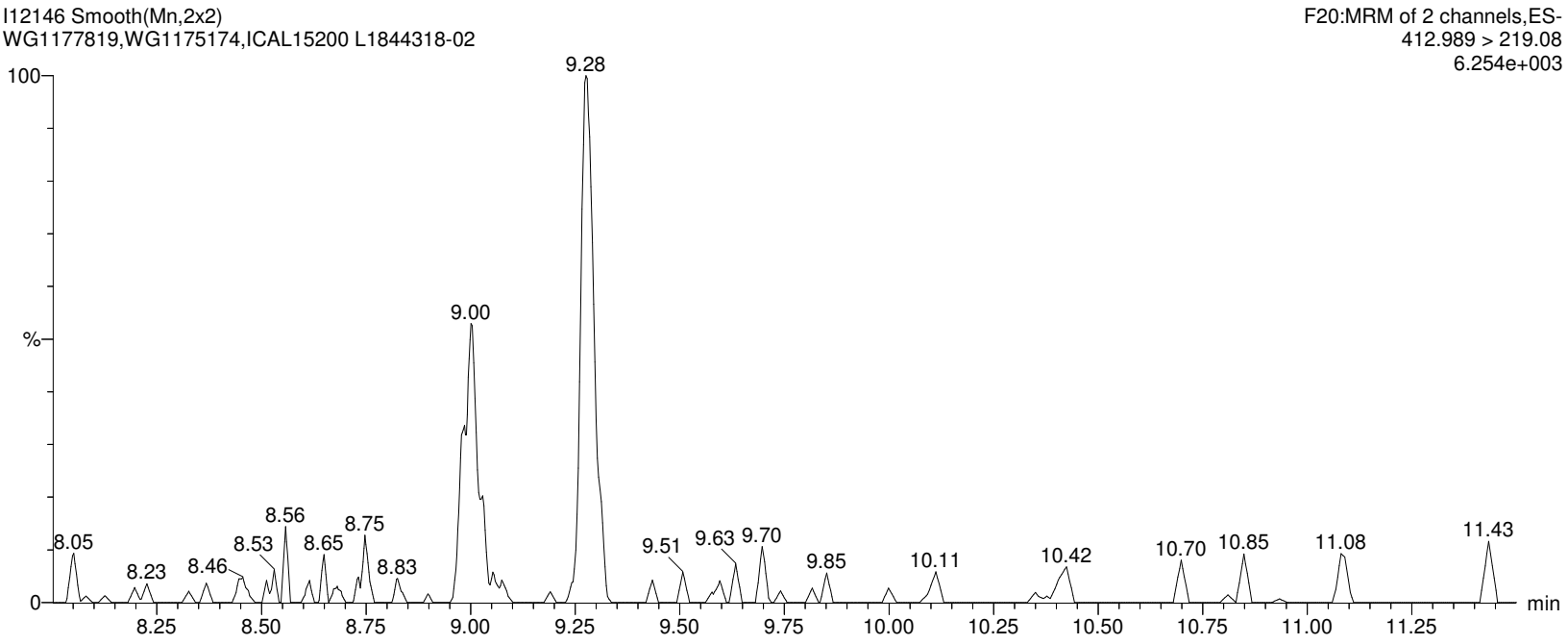

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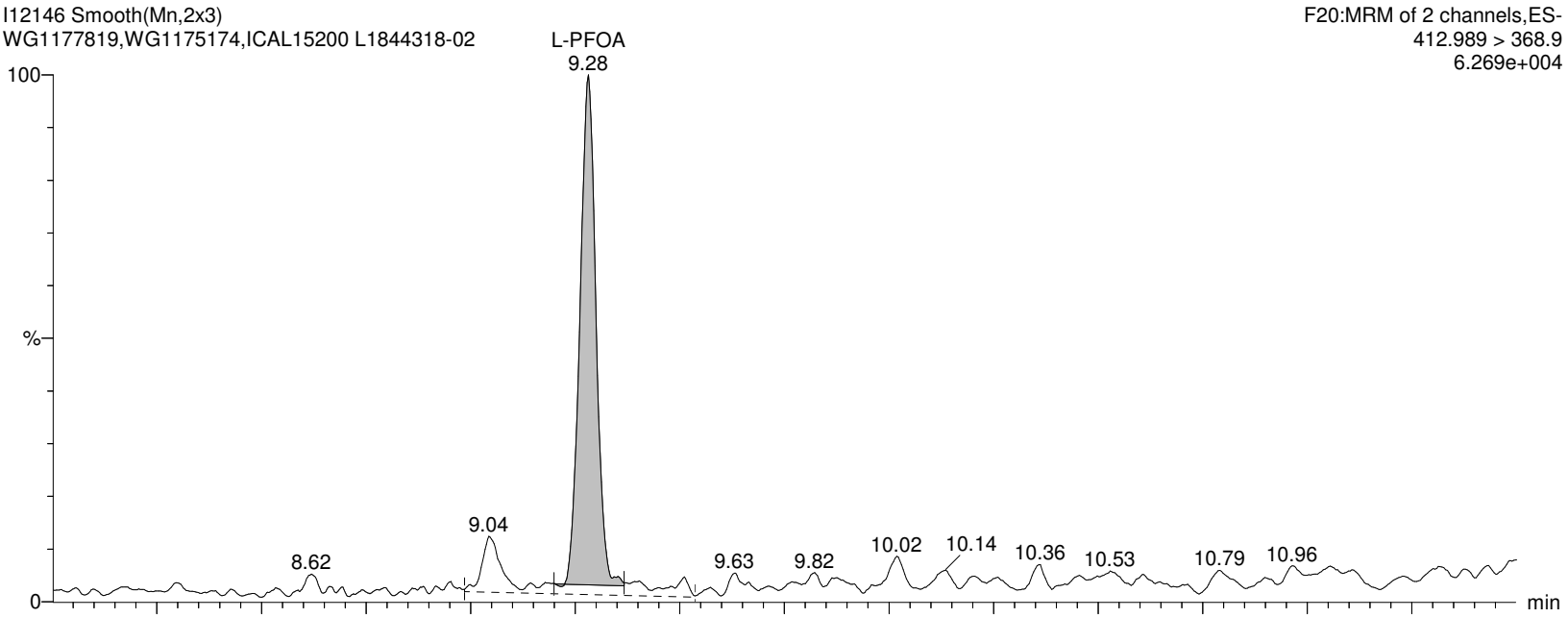

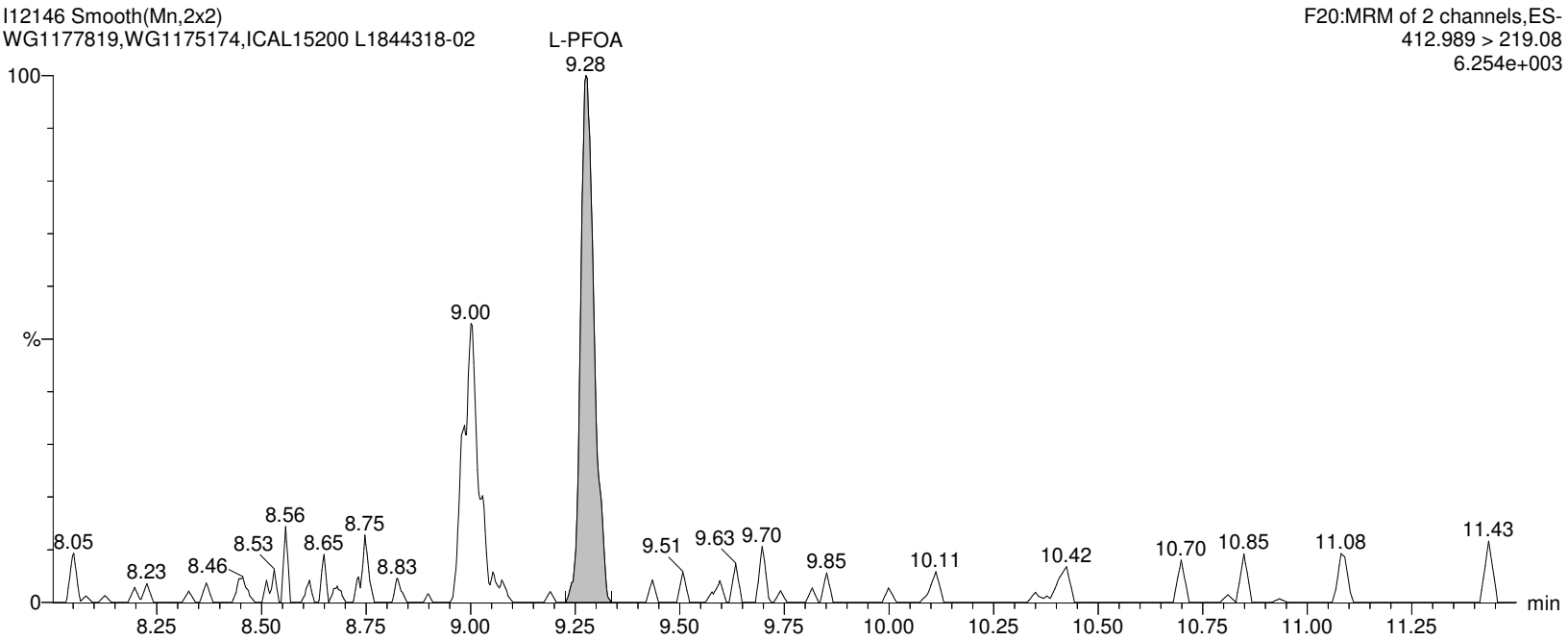

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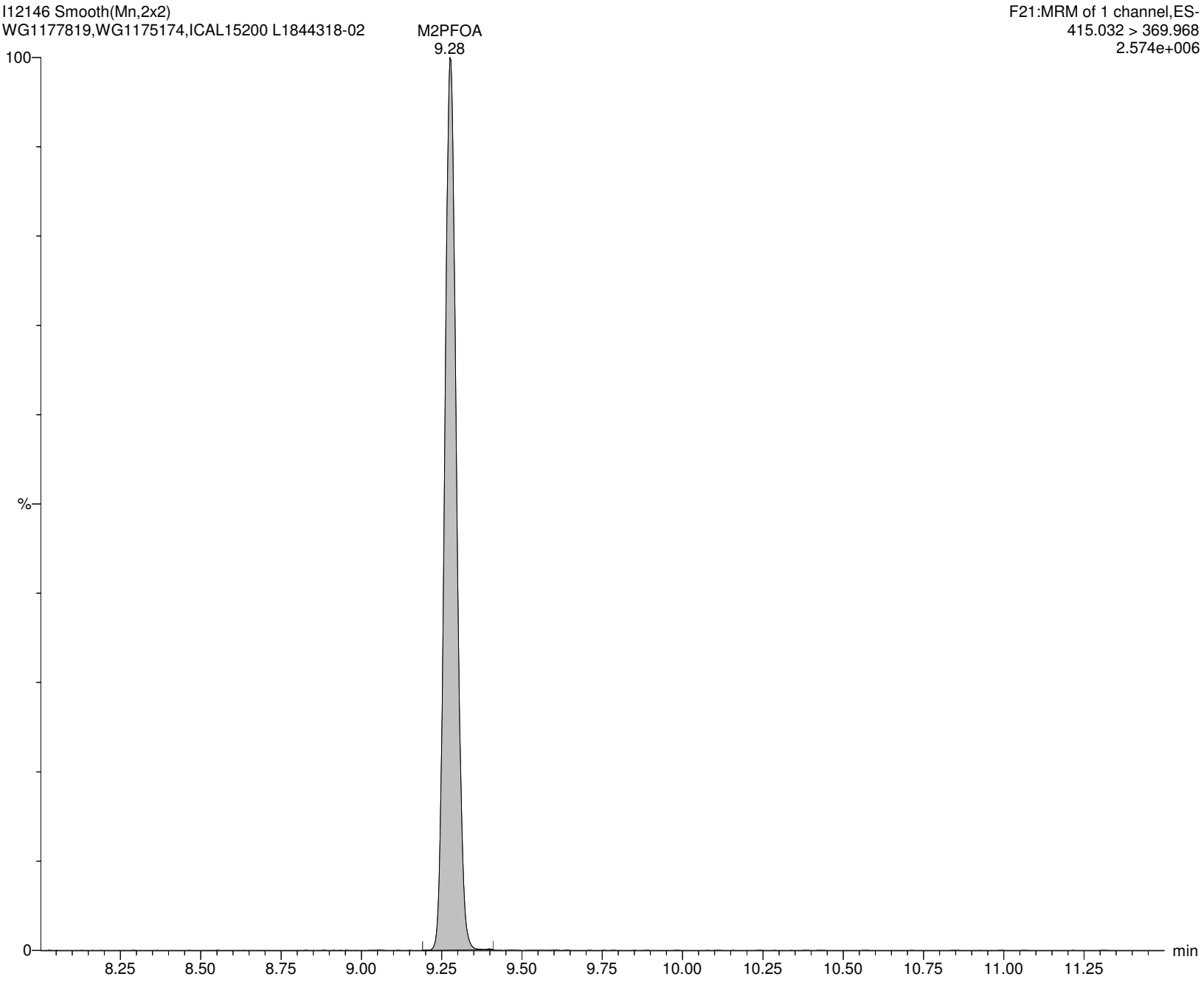

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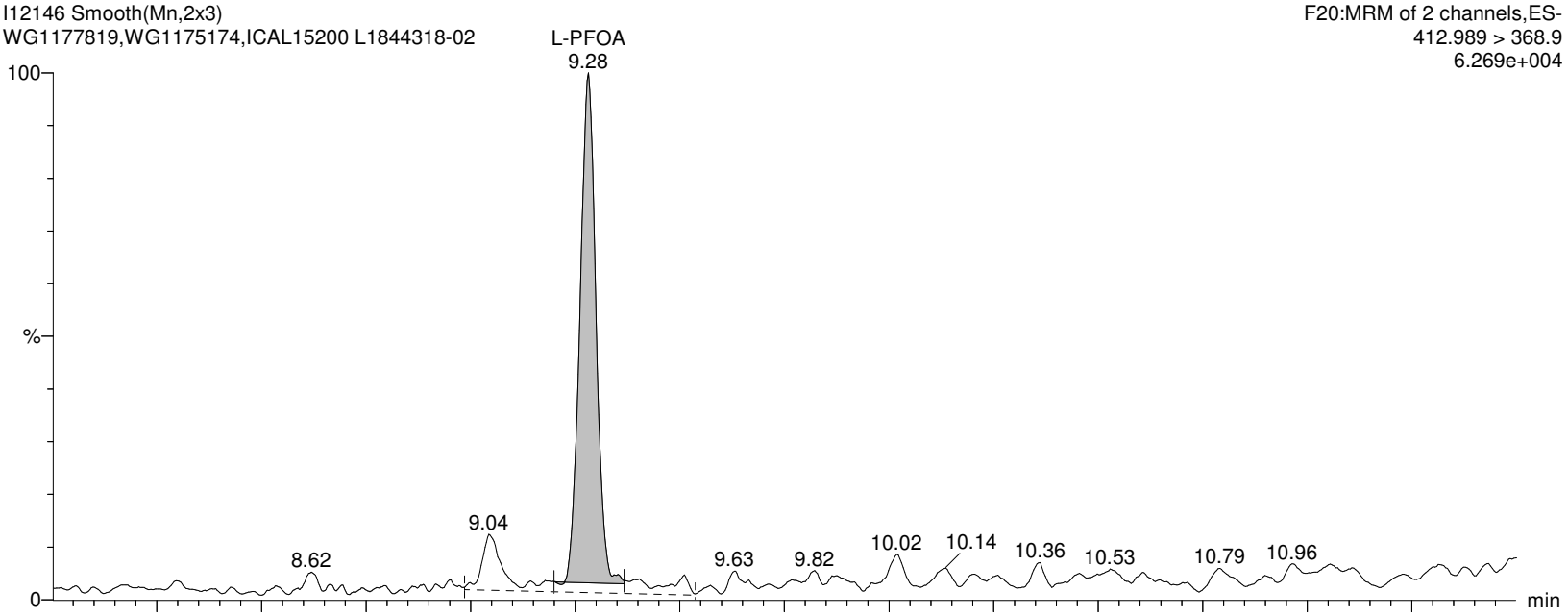

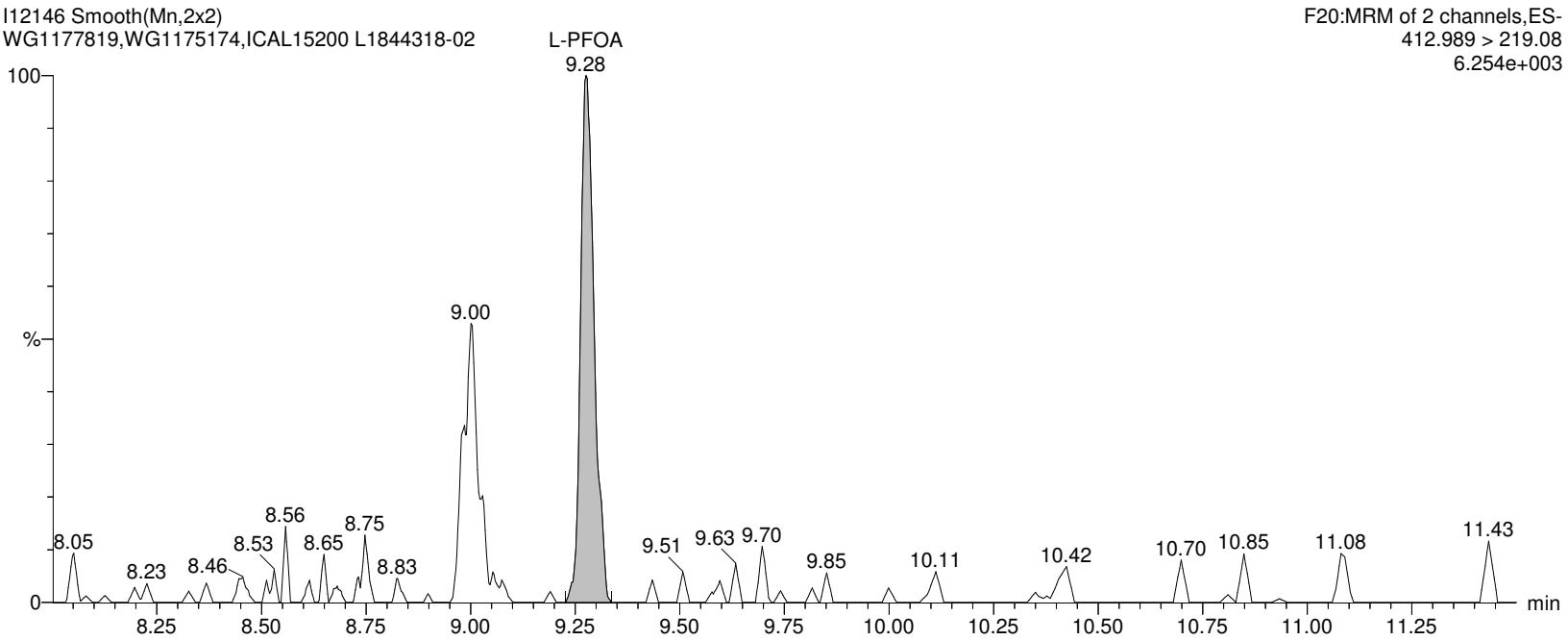

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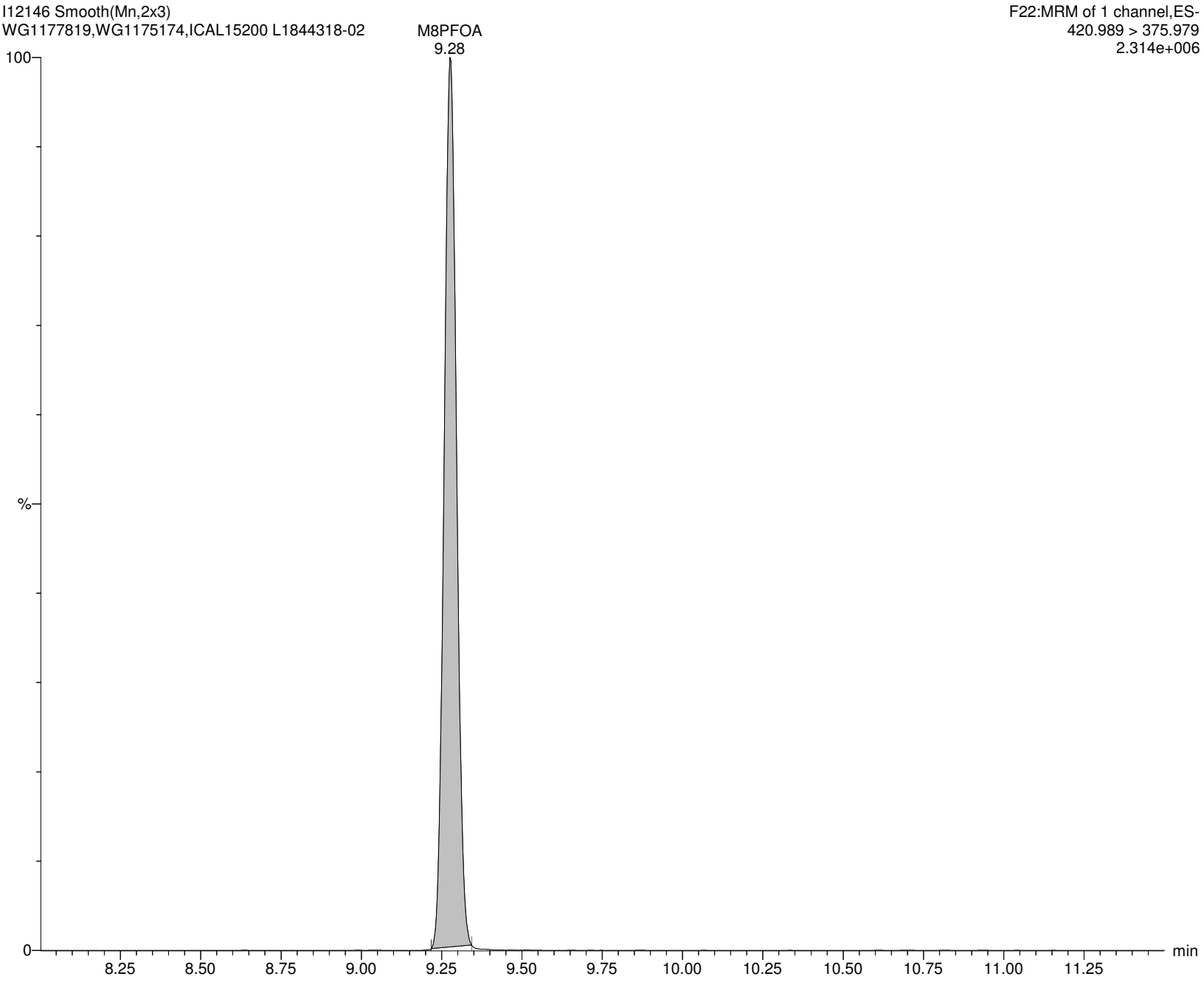

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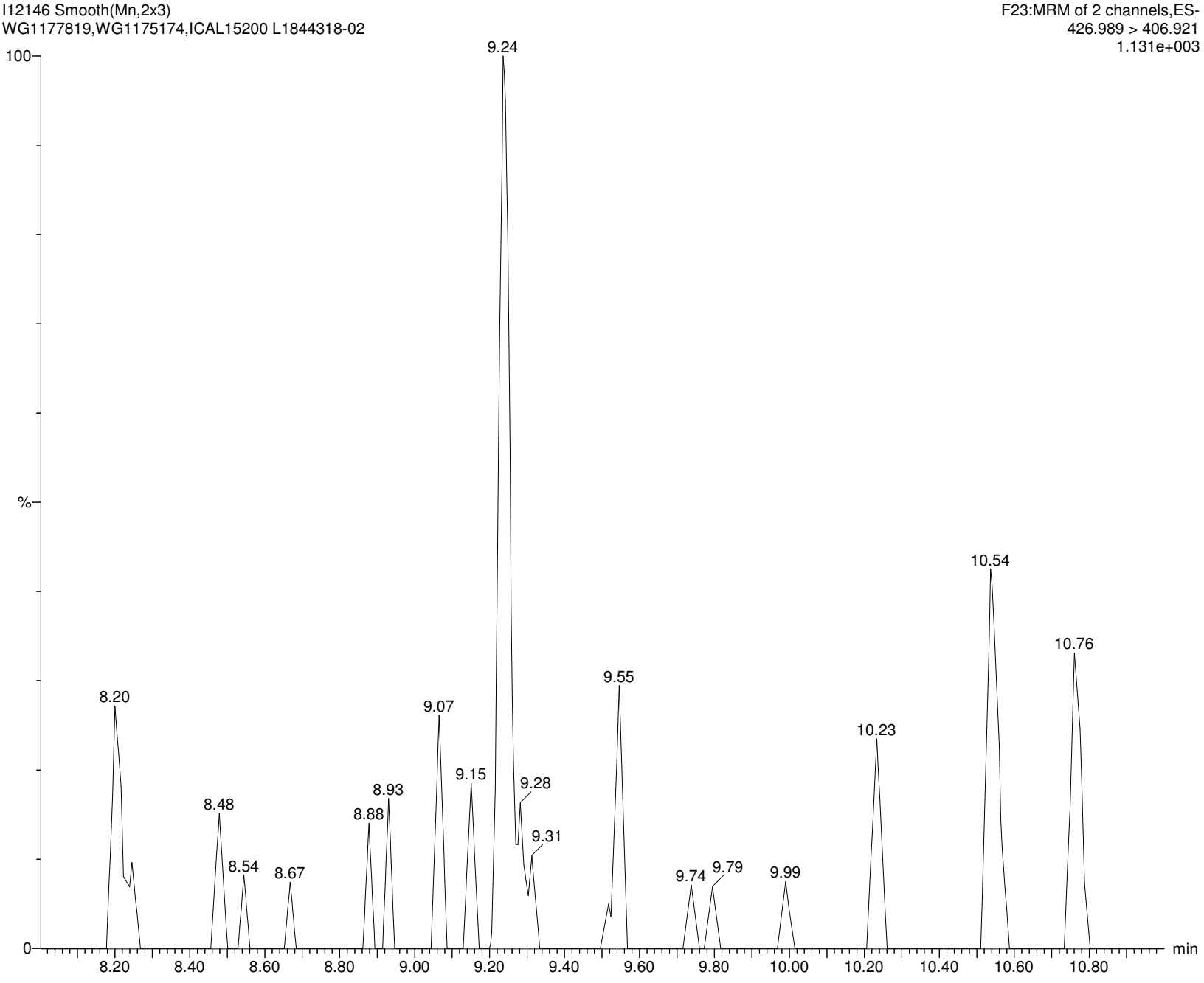

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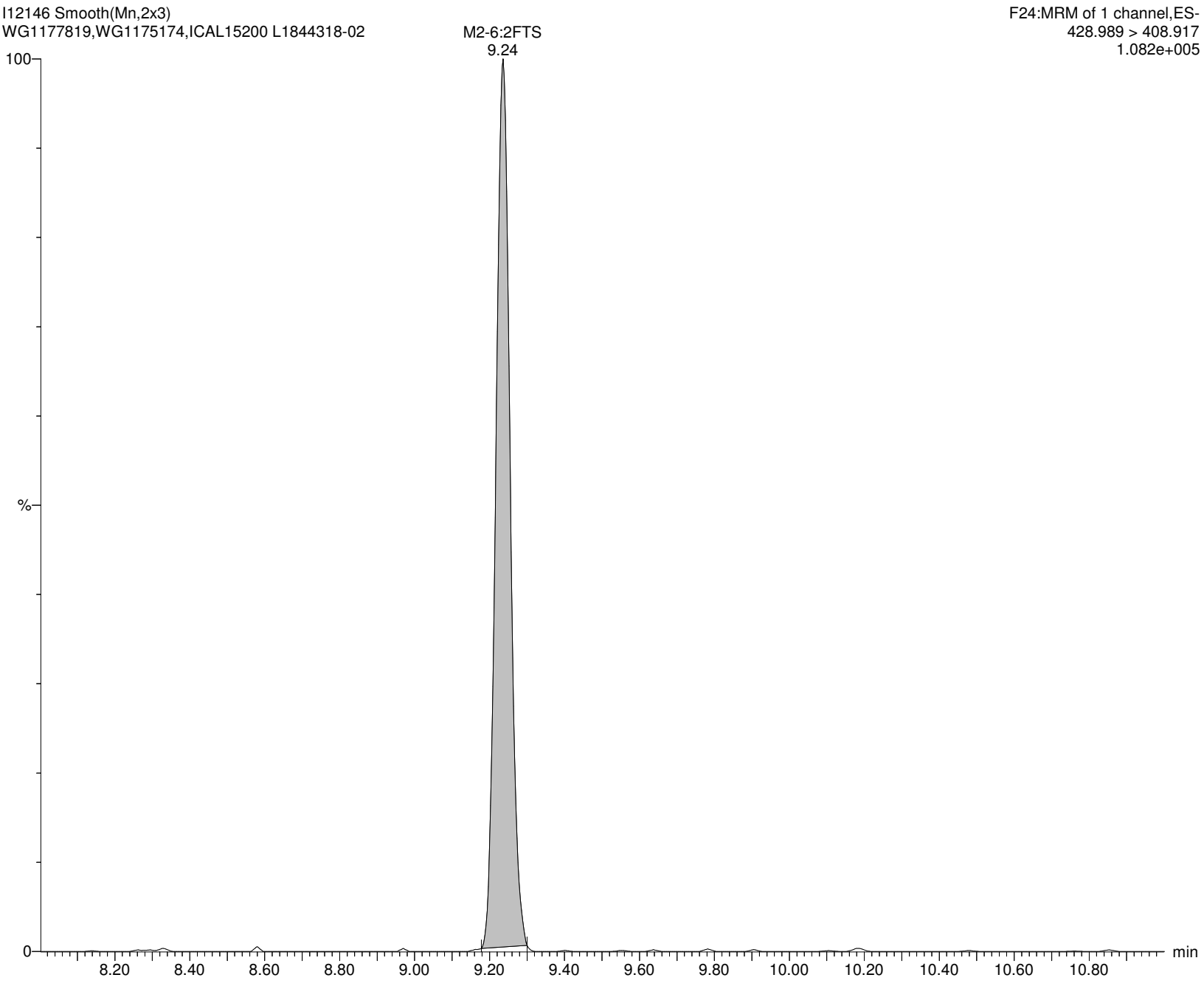

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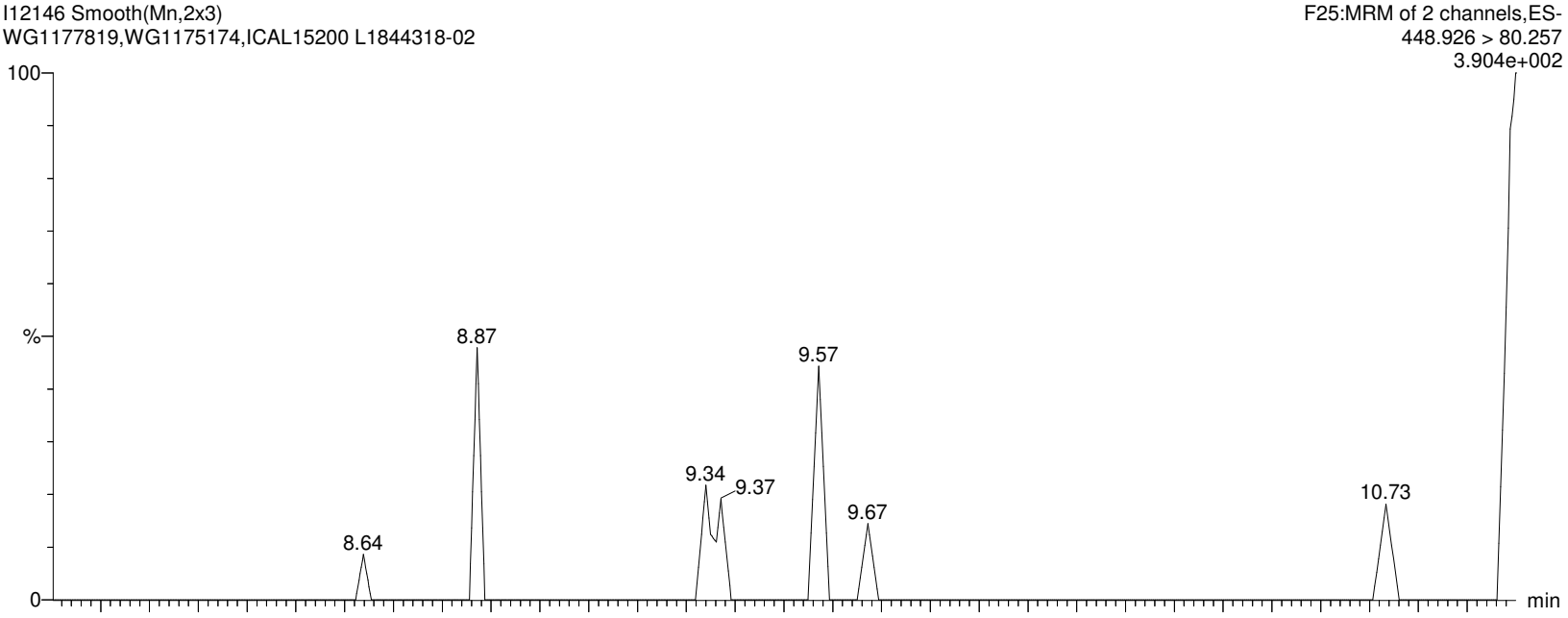
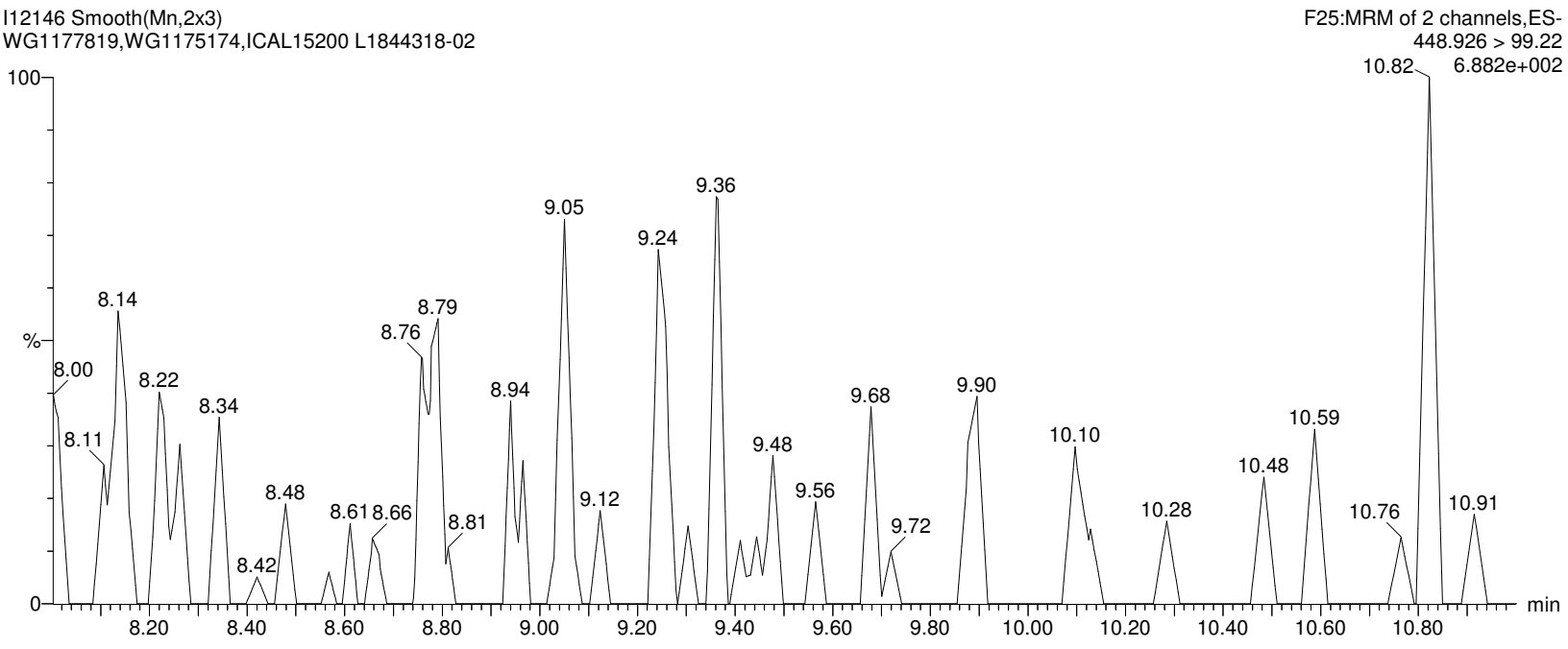
PFHpS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:43 Eastern Standard Time

Name: I12146
ID: L1844318-02
Date: 10-Nov-2018
Time: 05:12:28
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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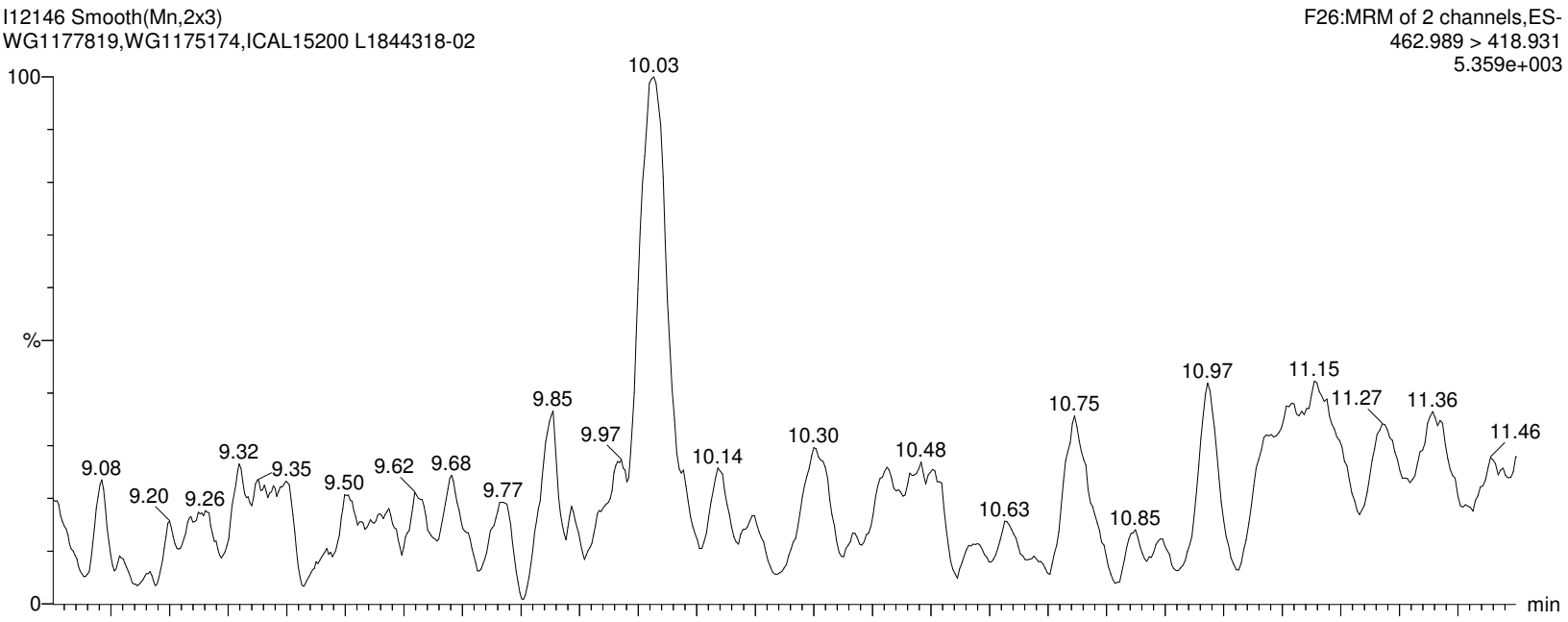

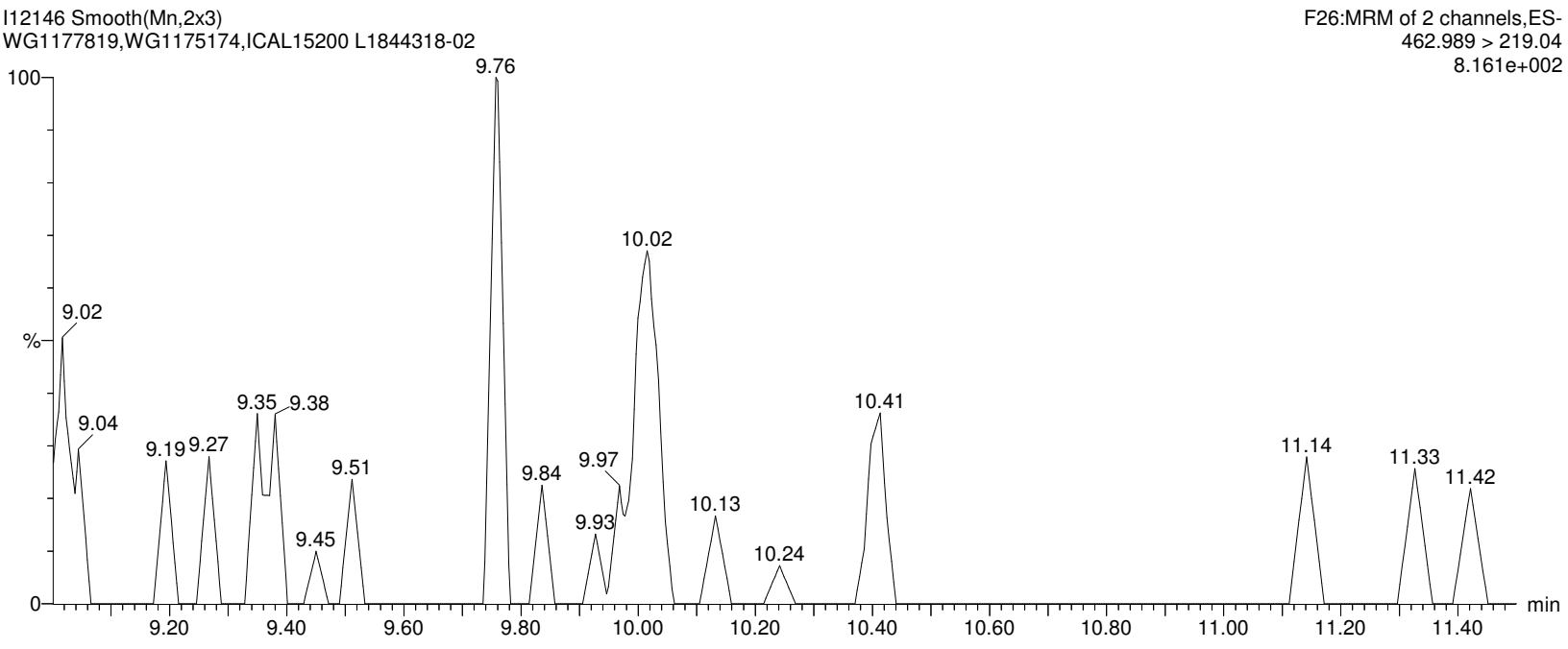

all concentration units in (ng/mL)

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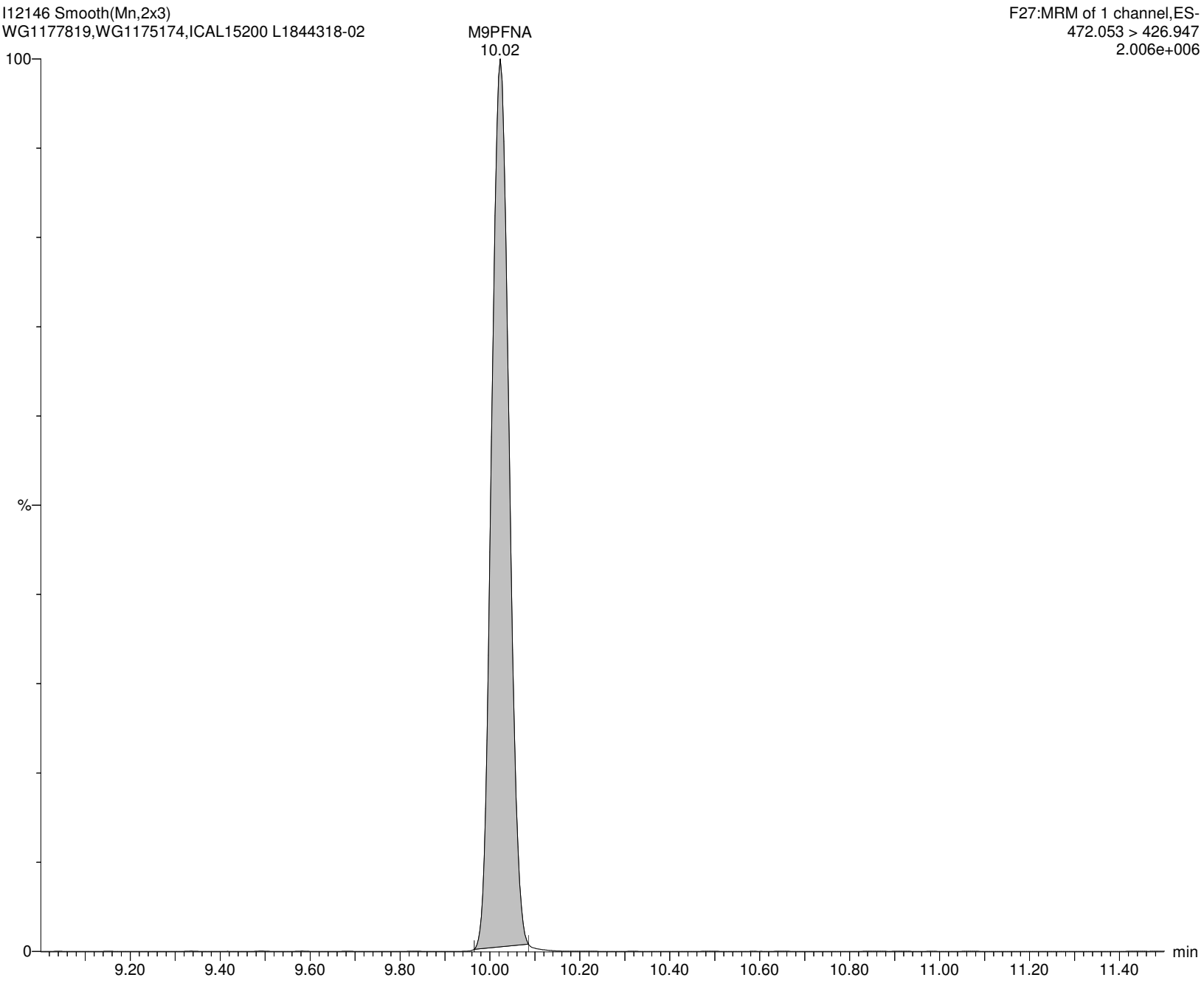

all concentration units in (ng/mL)

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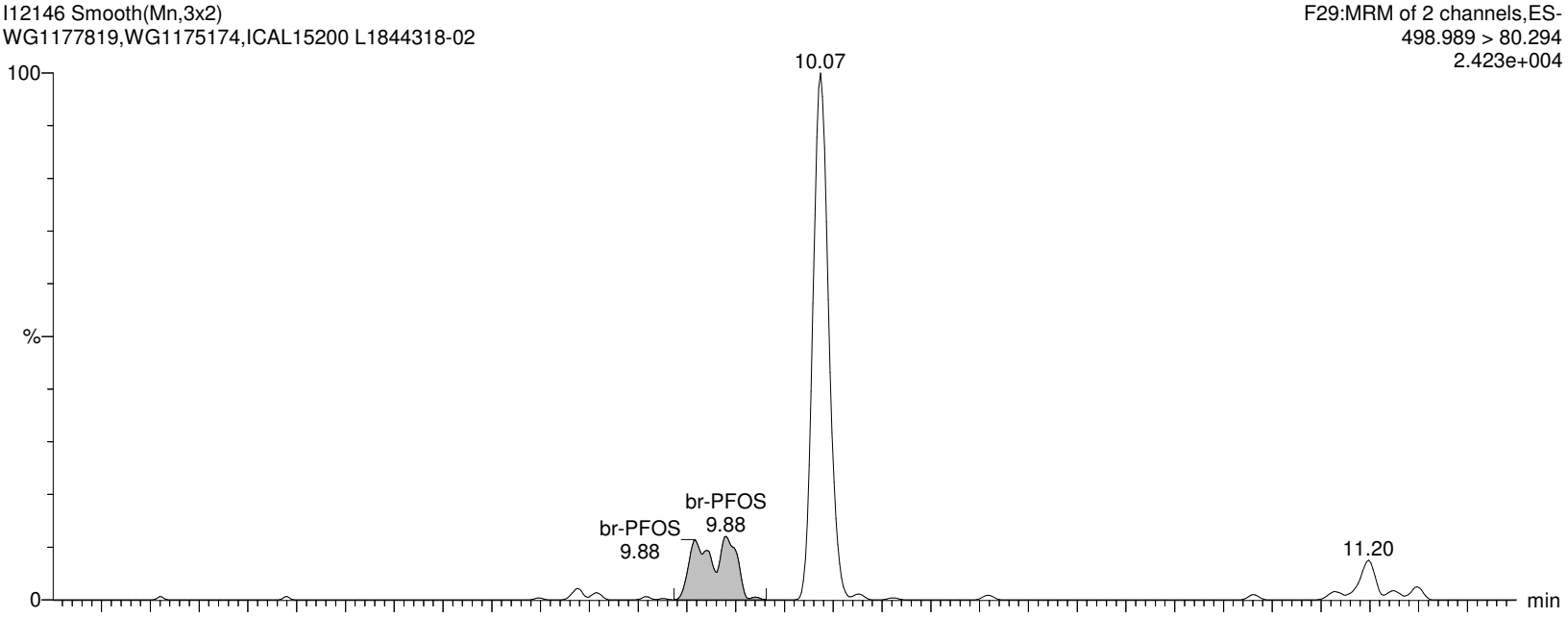

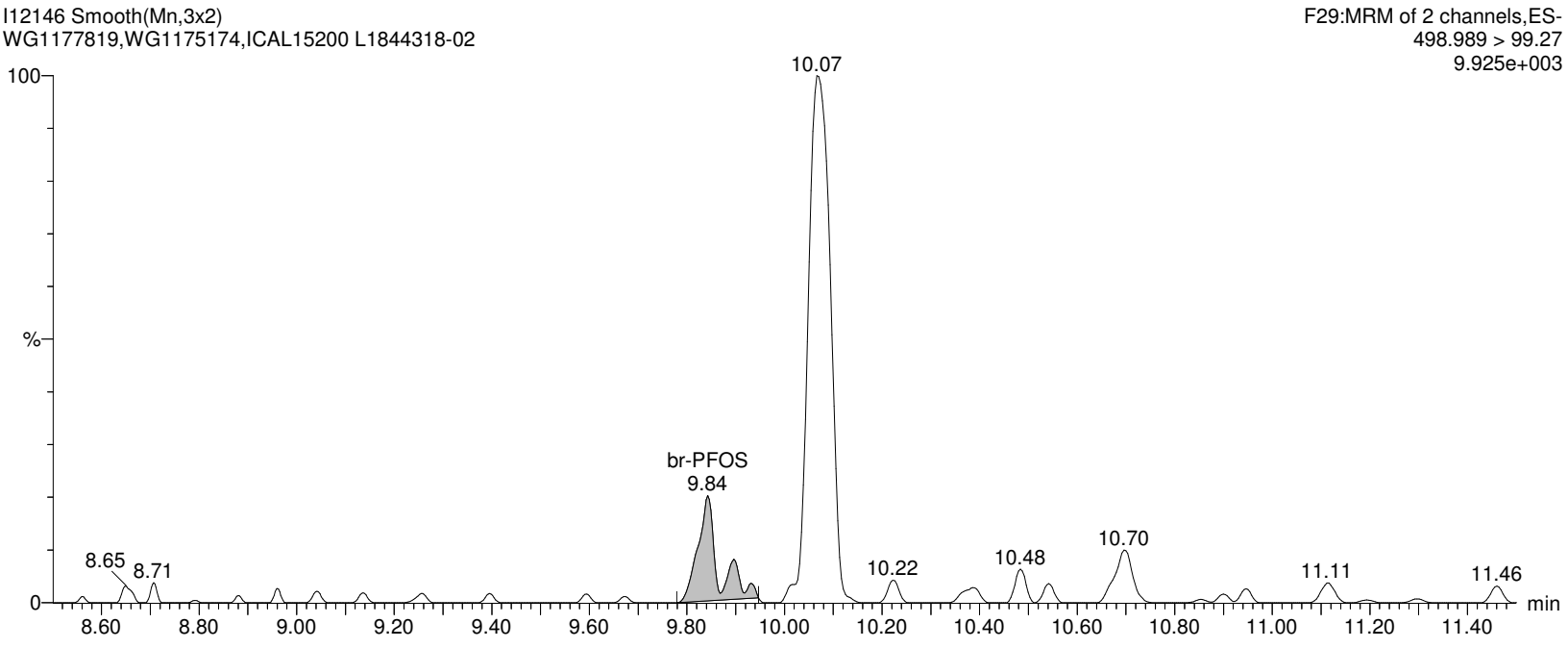

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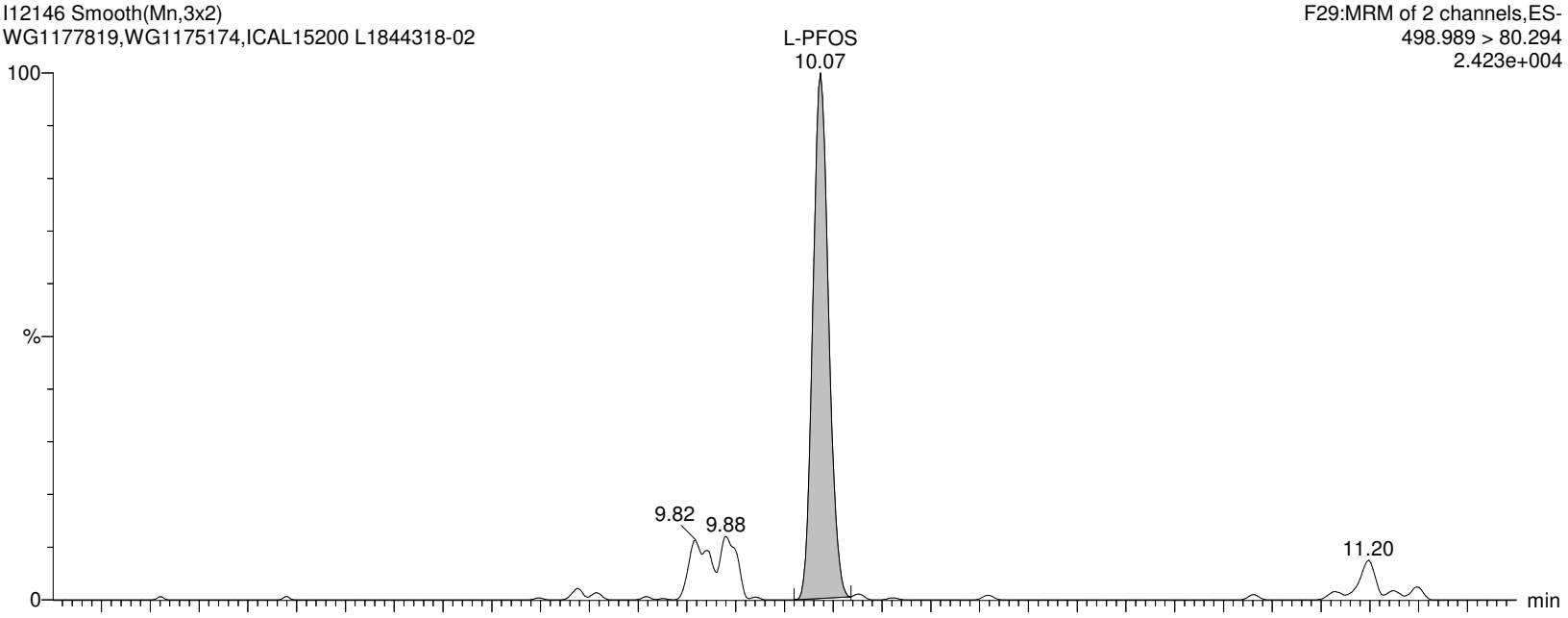

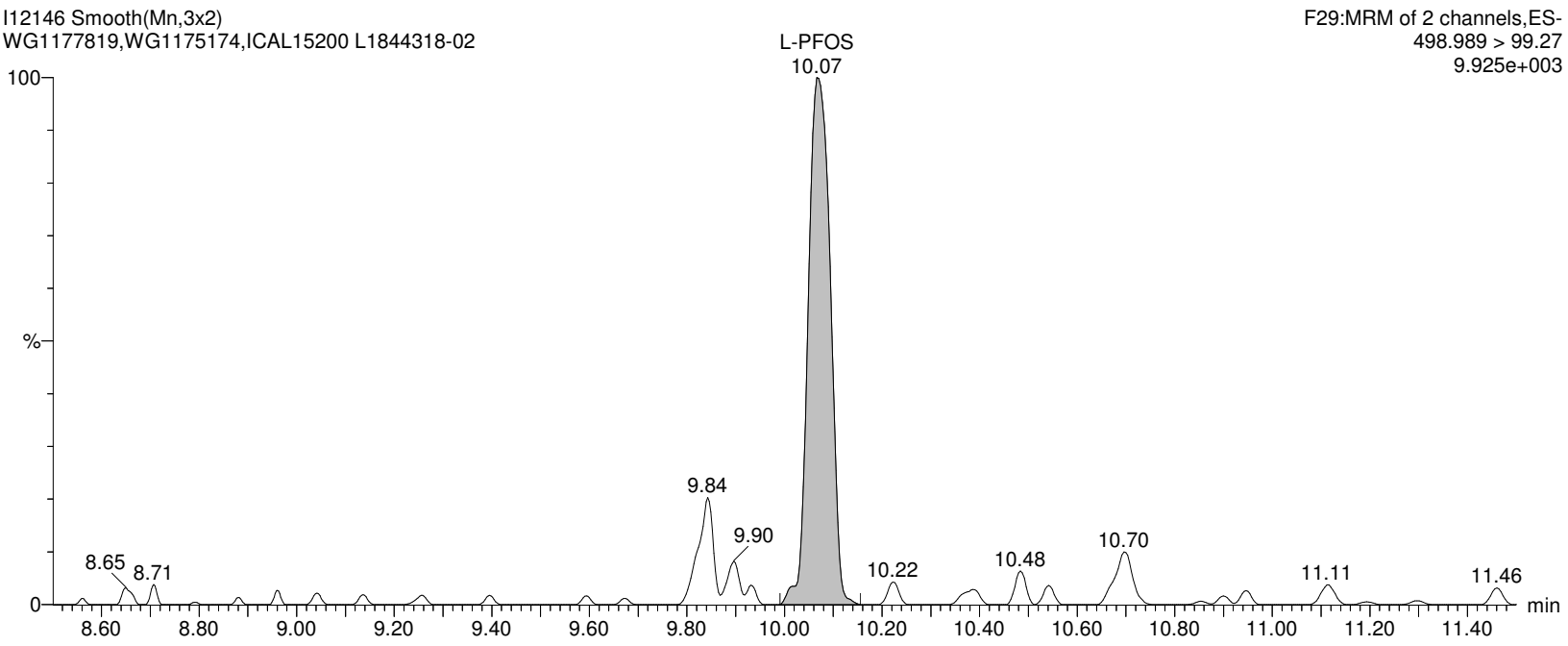

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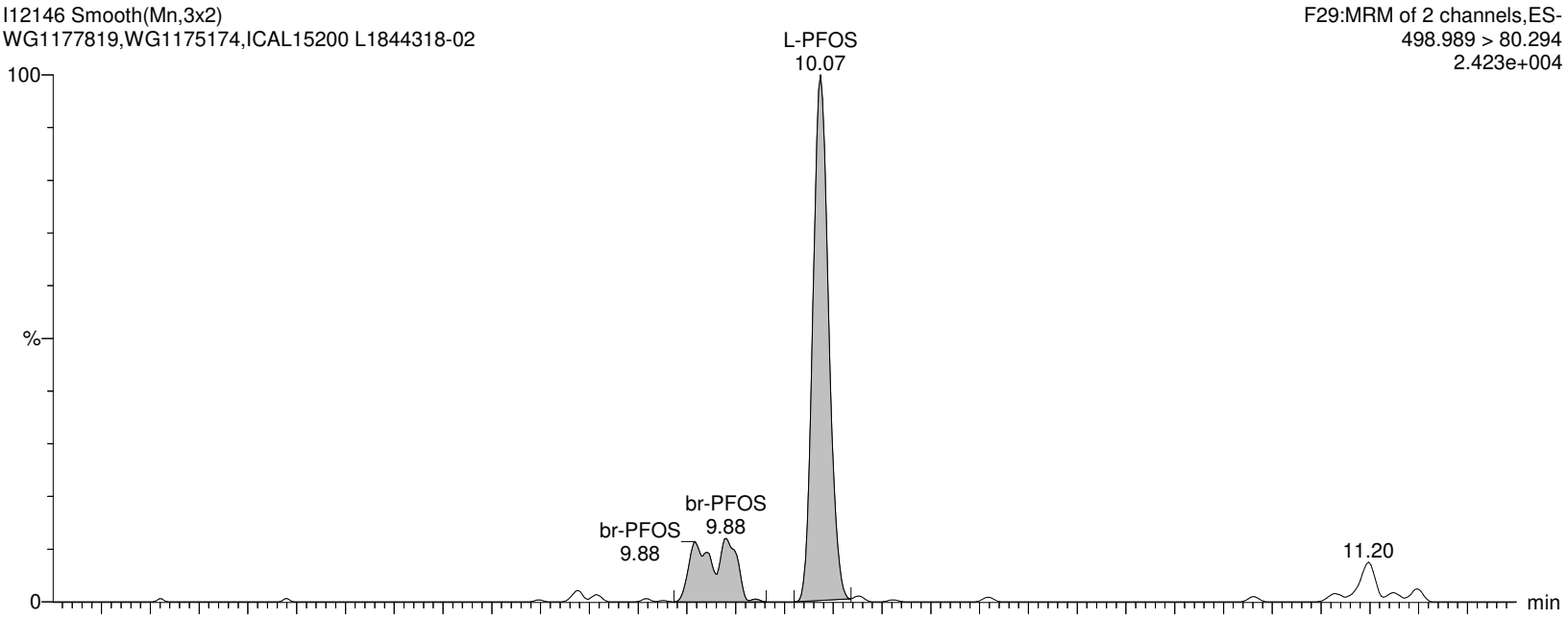

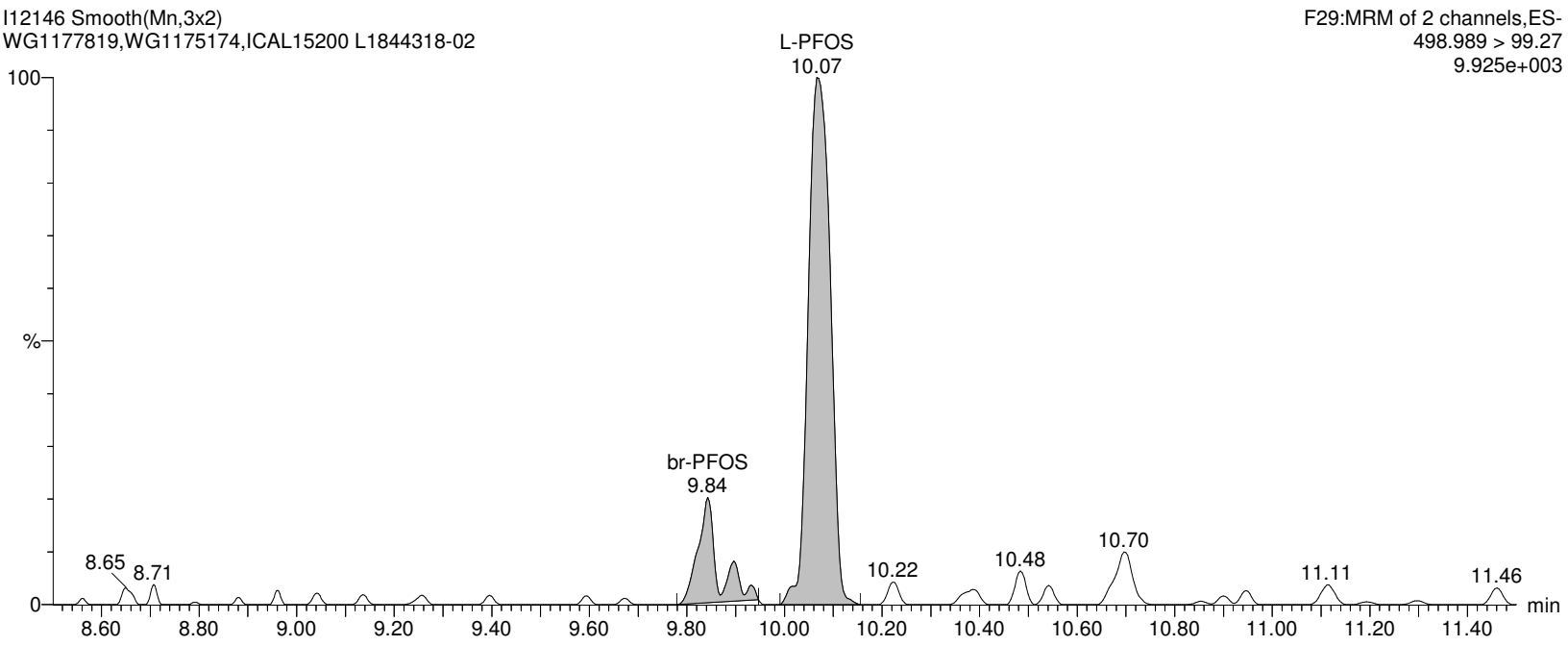

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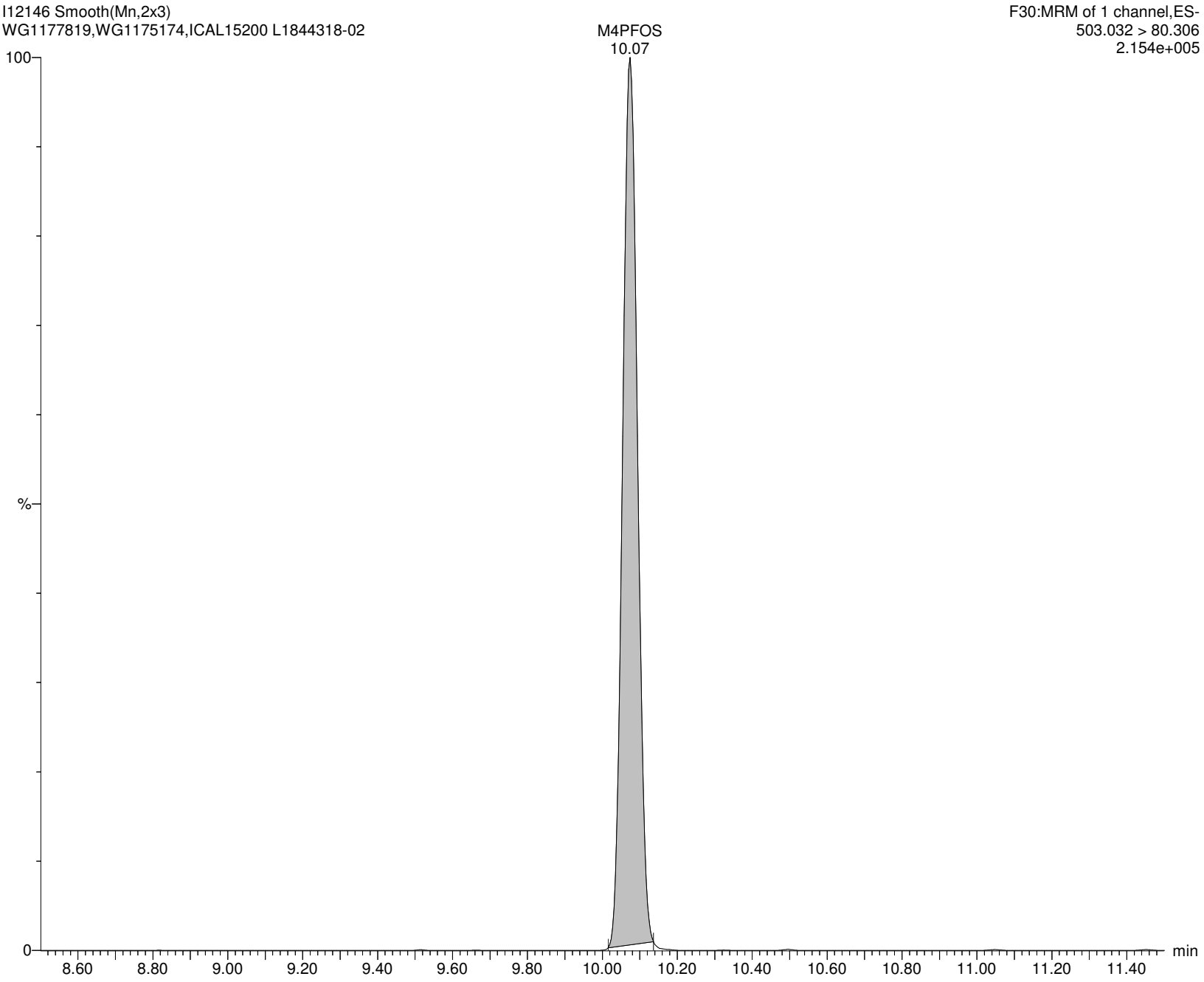

all concentration units in (ng/mL)

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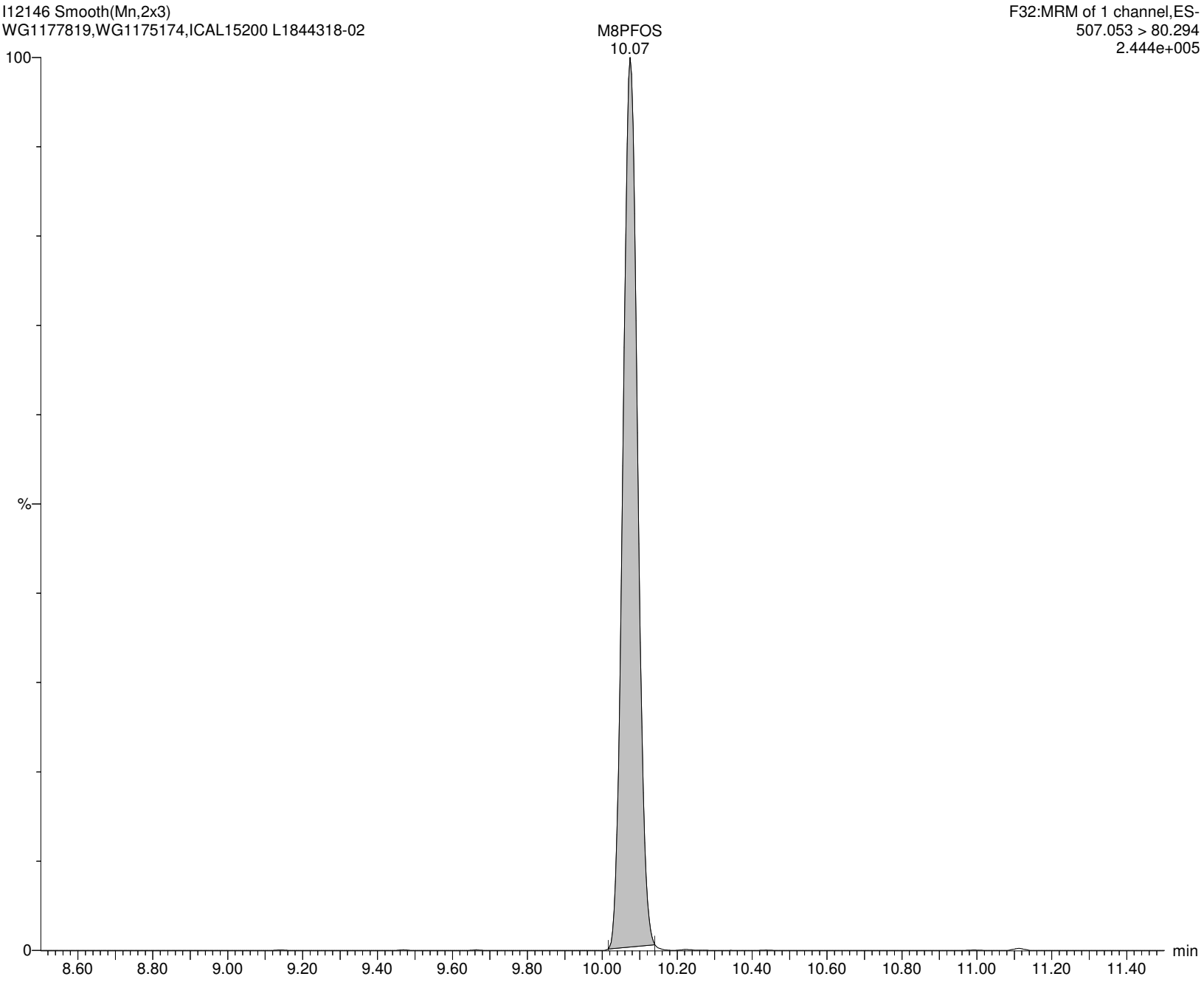

all concentration units in (ng/mL)

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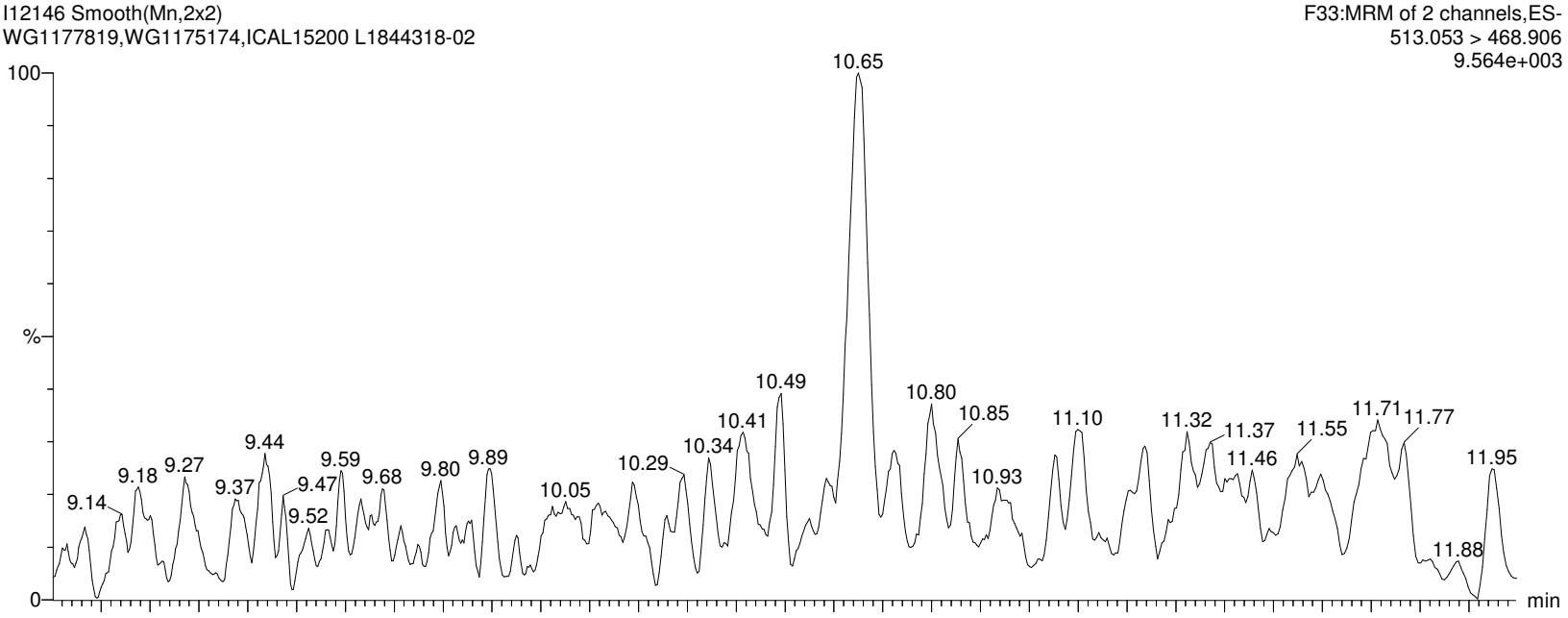

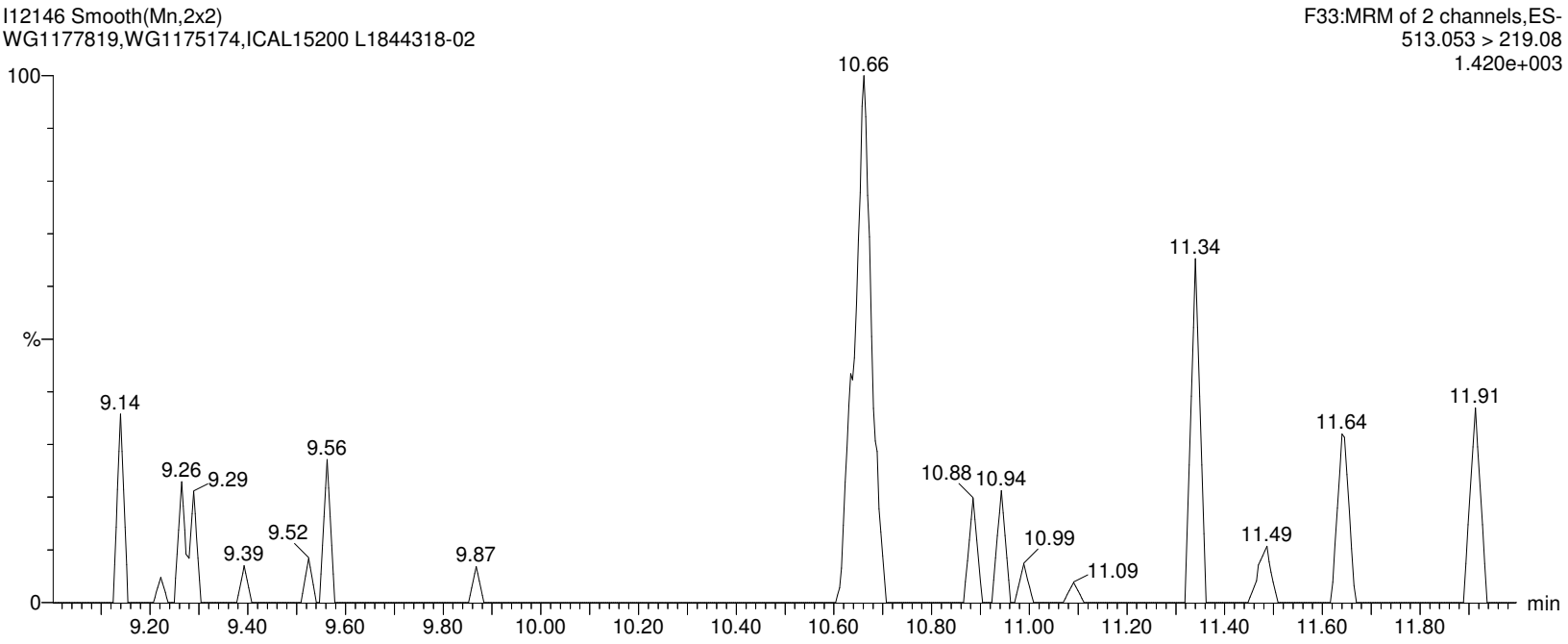

all concentration units in (ng/mL)

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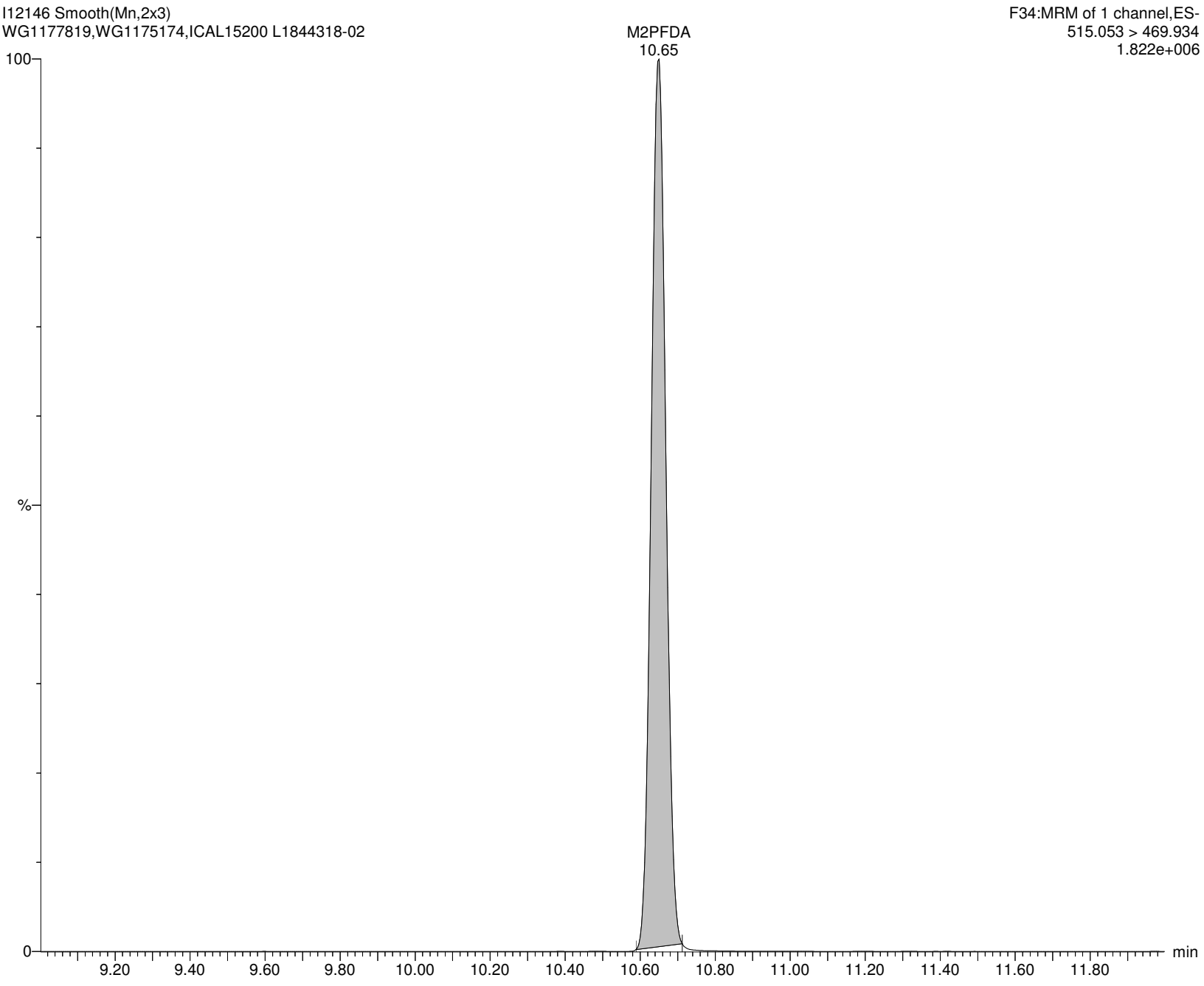

all concentration units in (ng/mL)

Alpha Analytical Inc.
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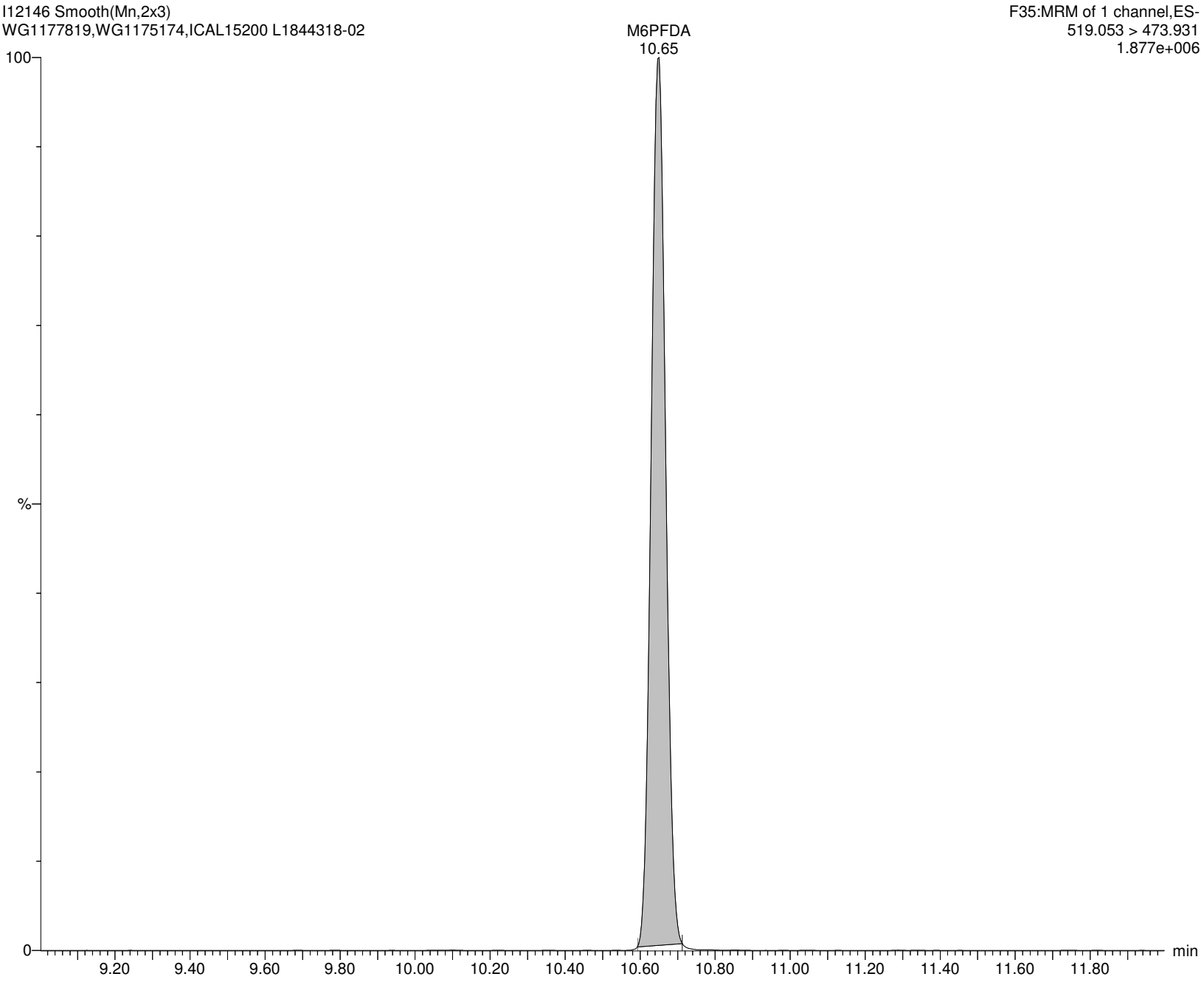

all concentration units in (ng/mL)

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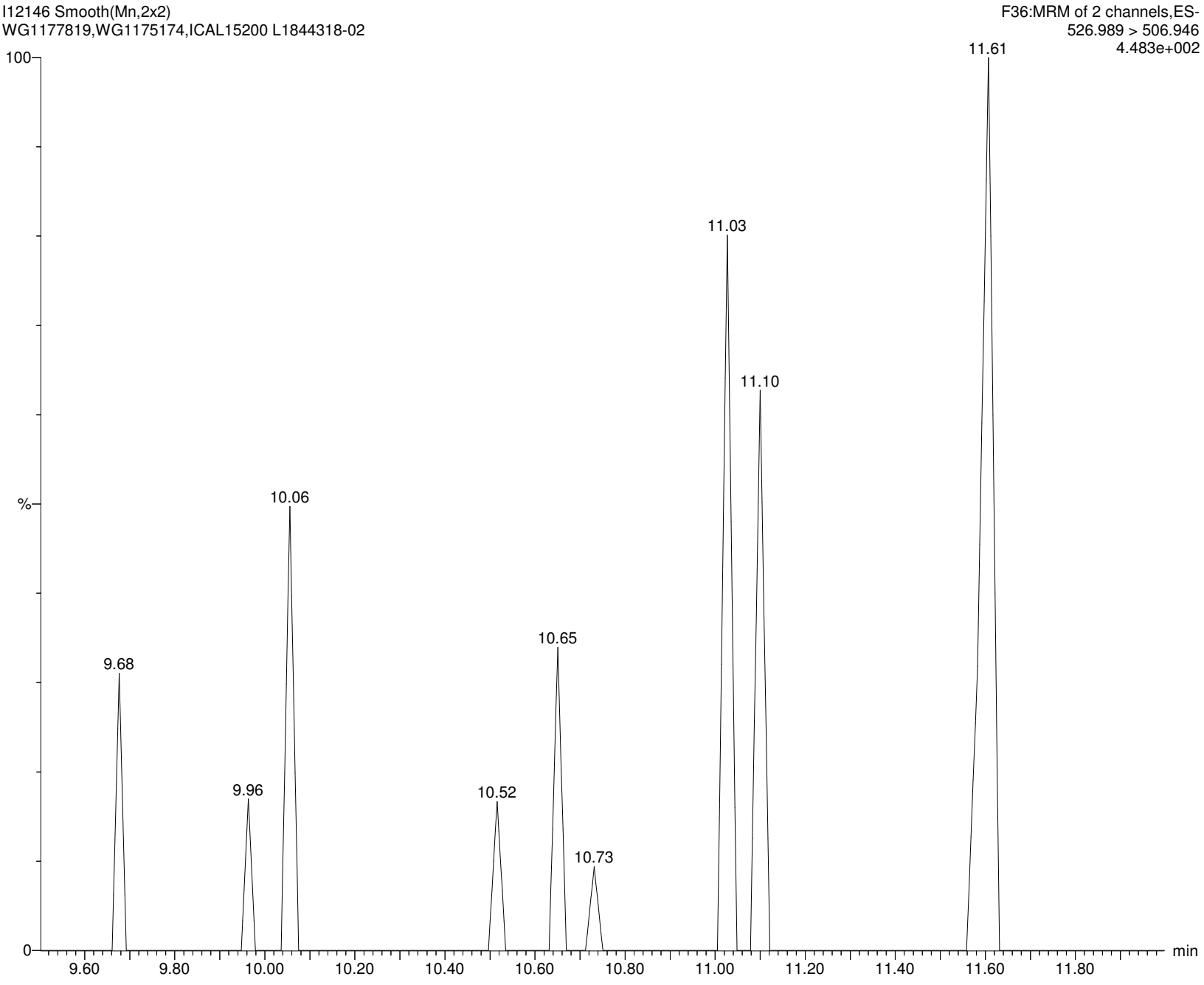

all concentration units in (ng/mL)

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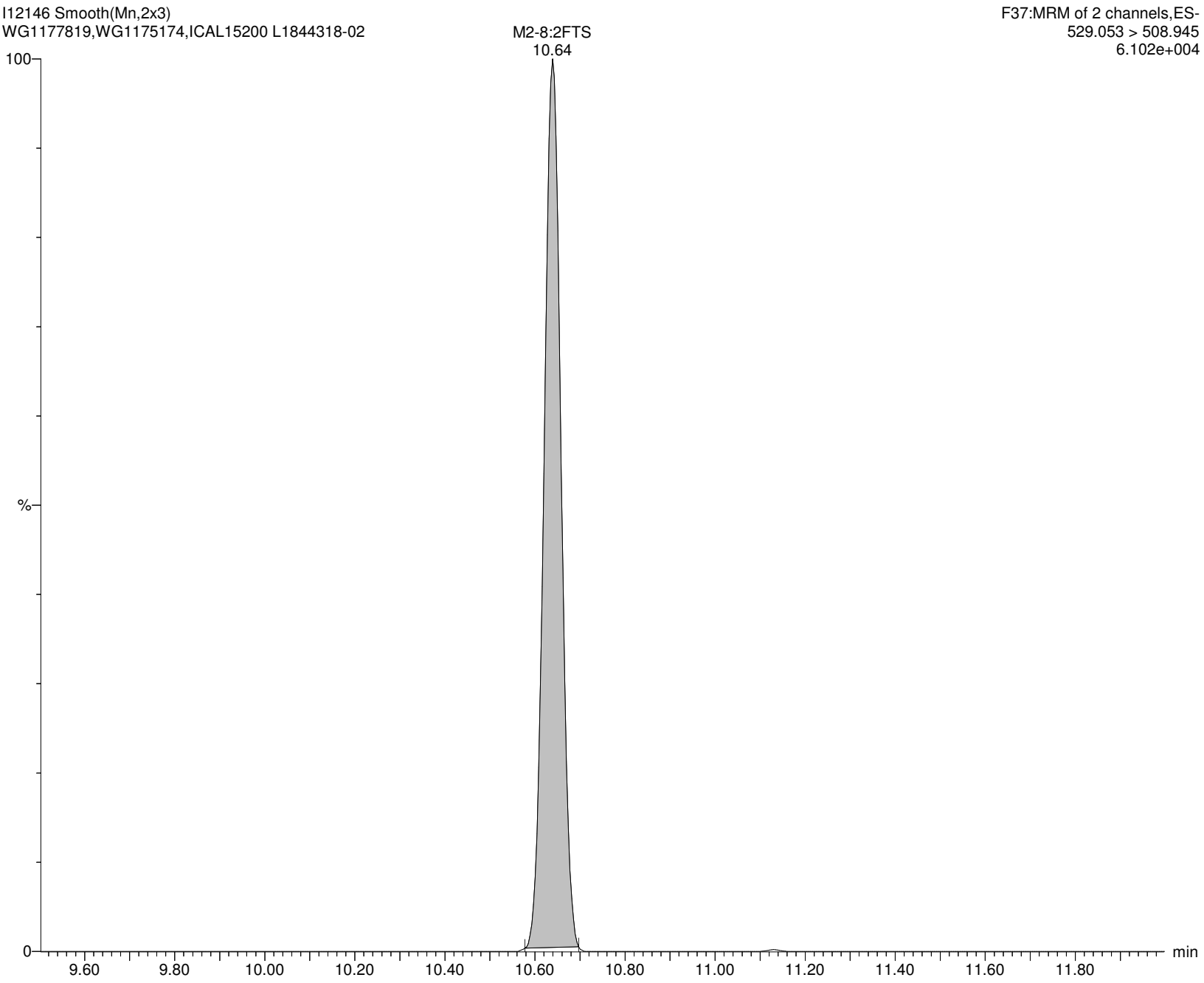

all concentration units in (ng/mL)

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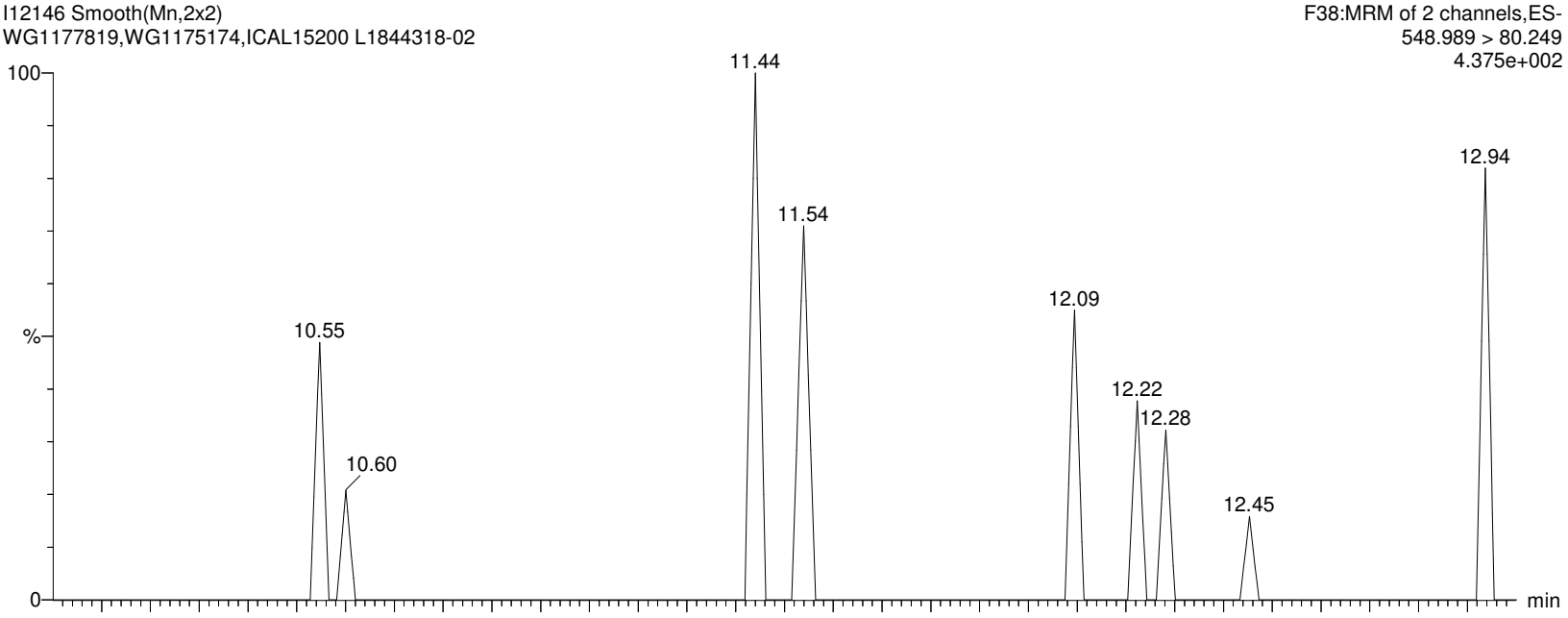

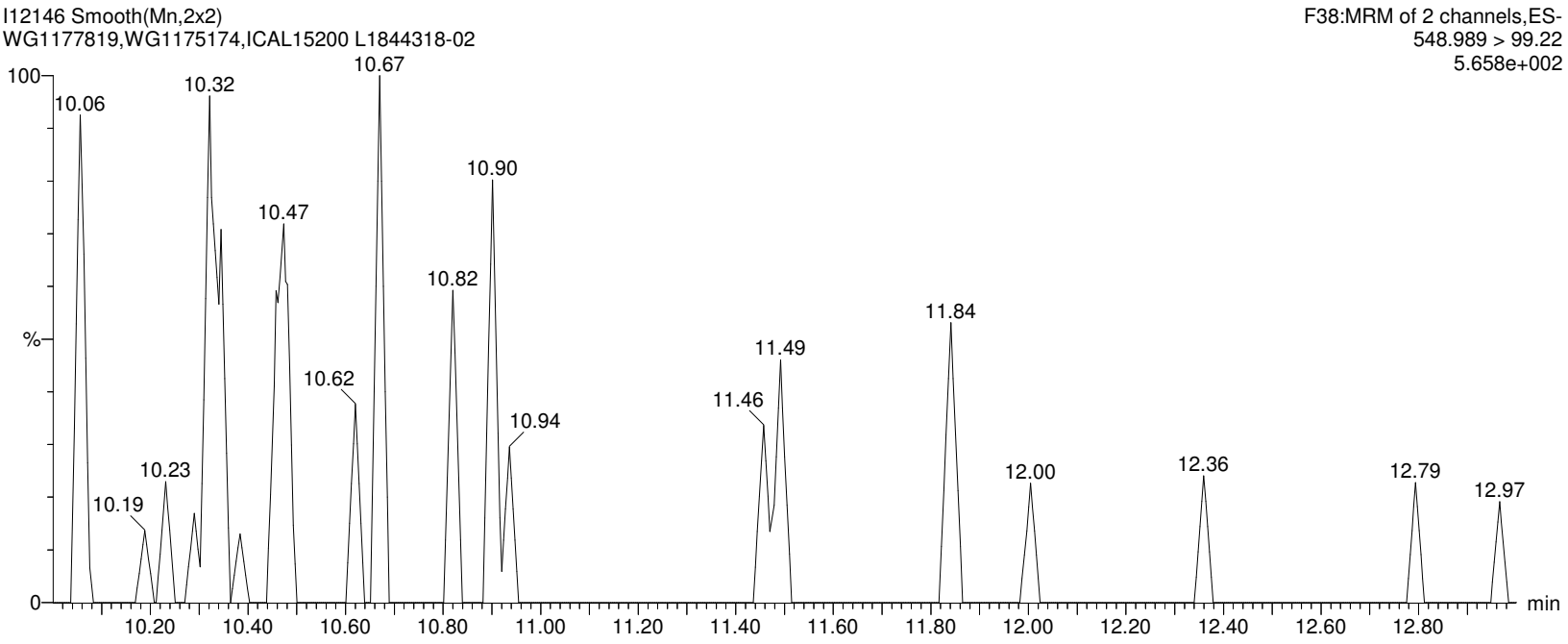

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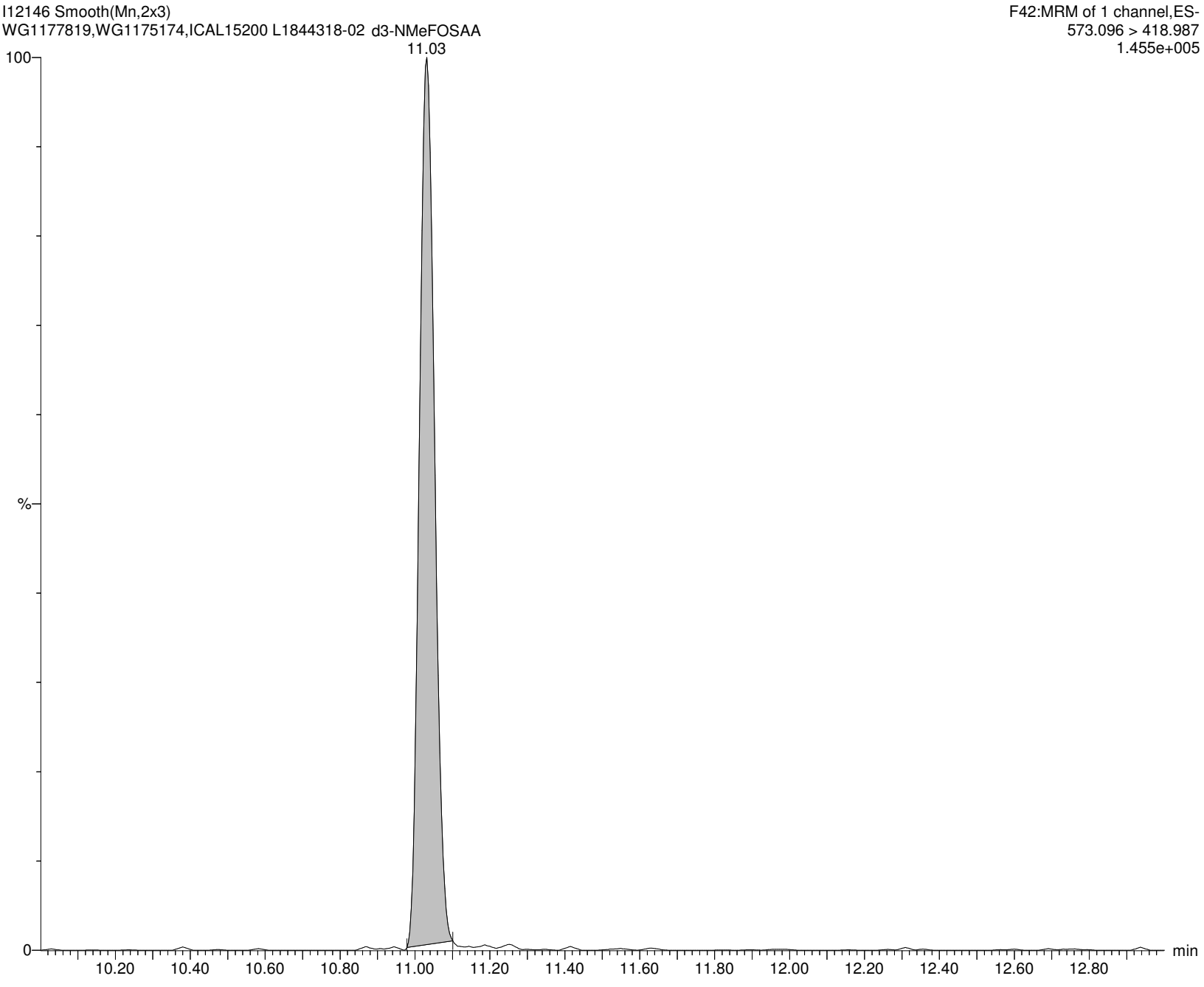

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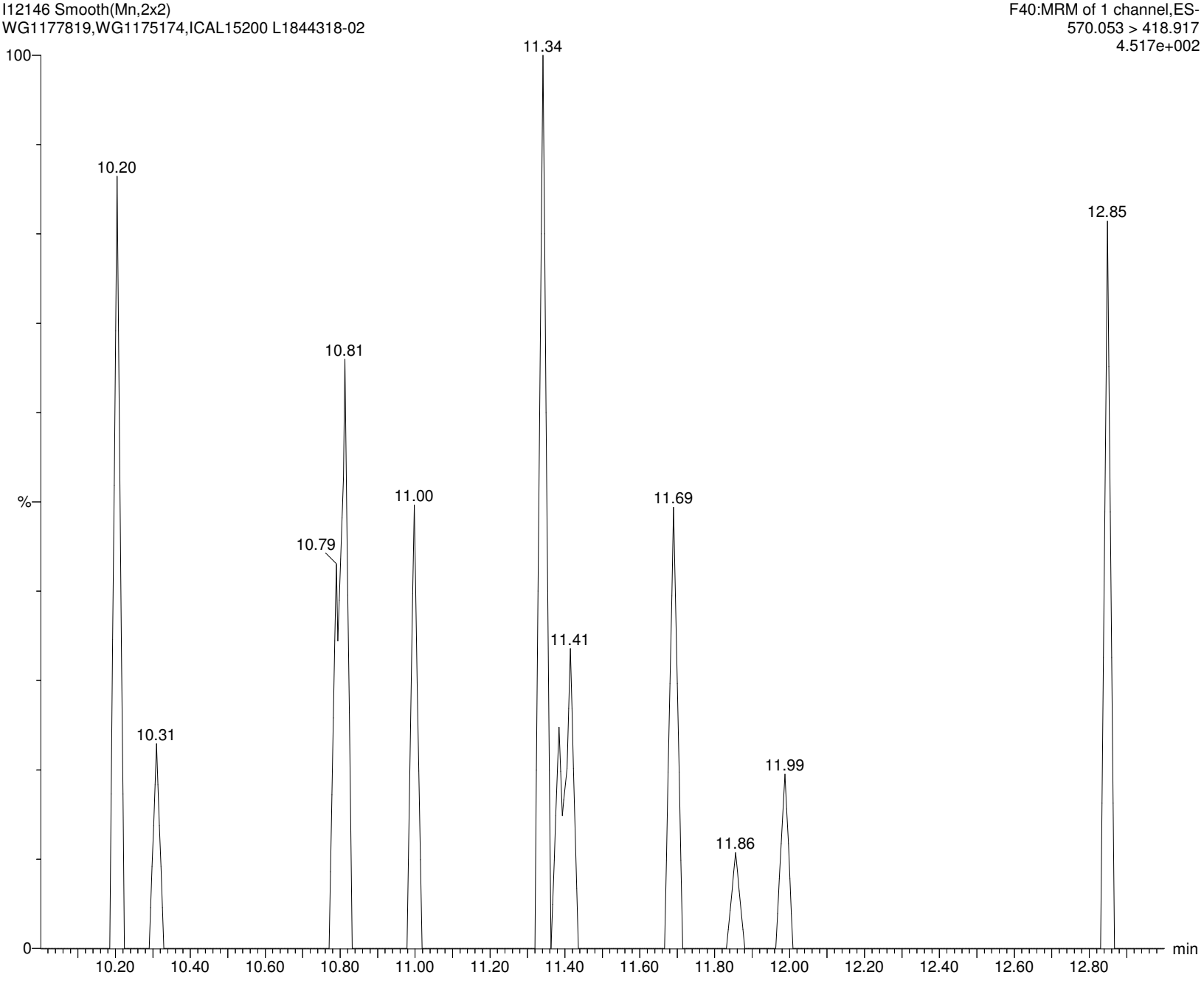

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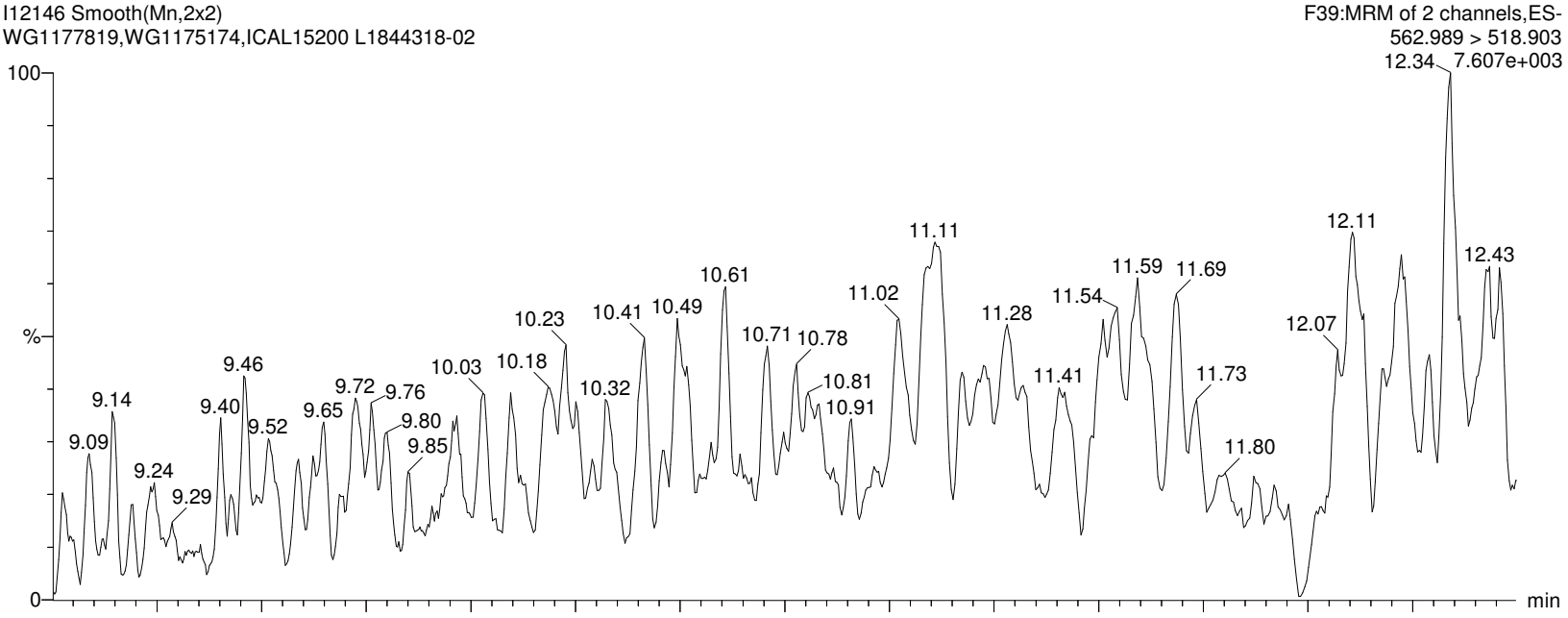
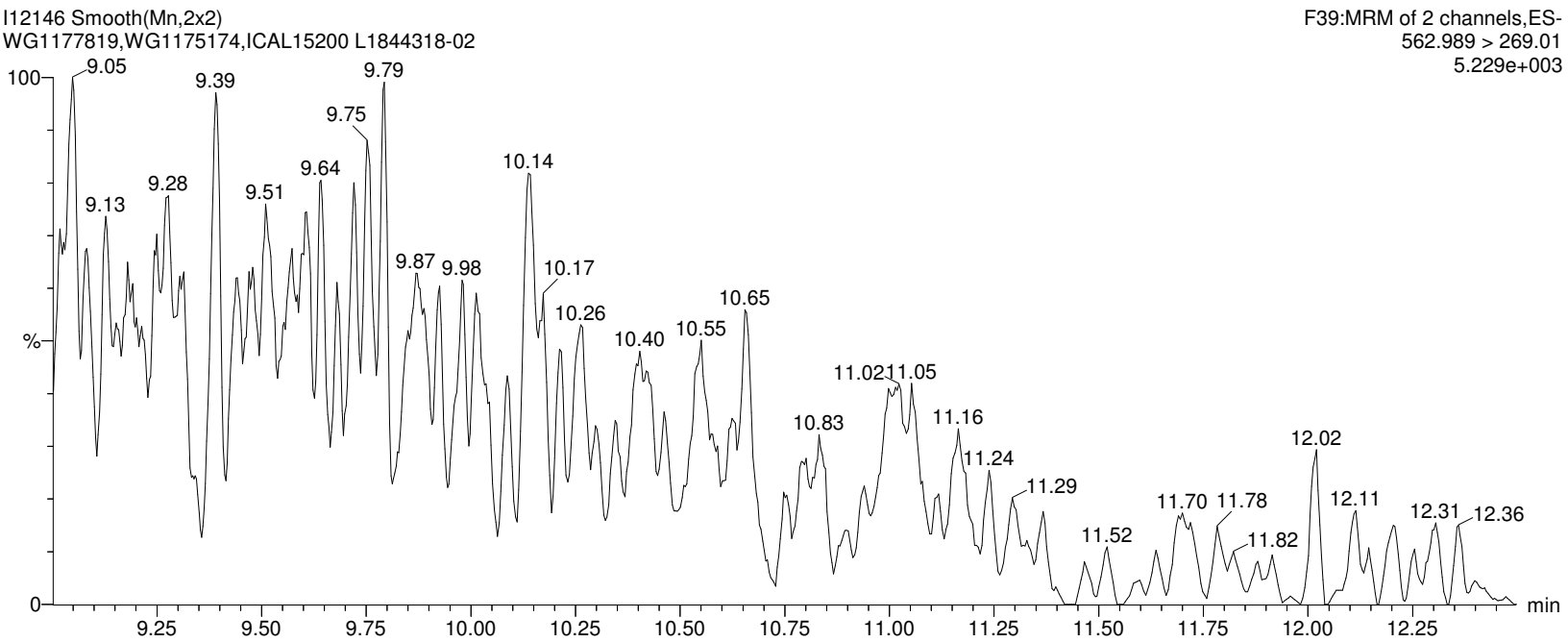


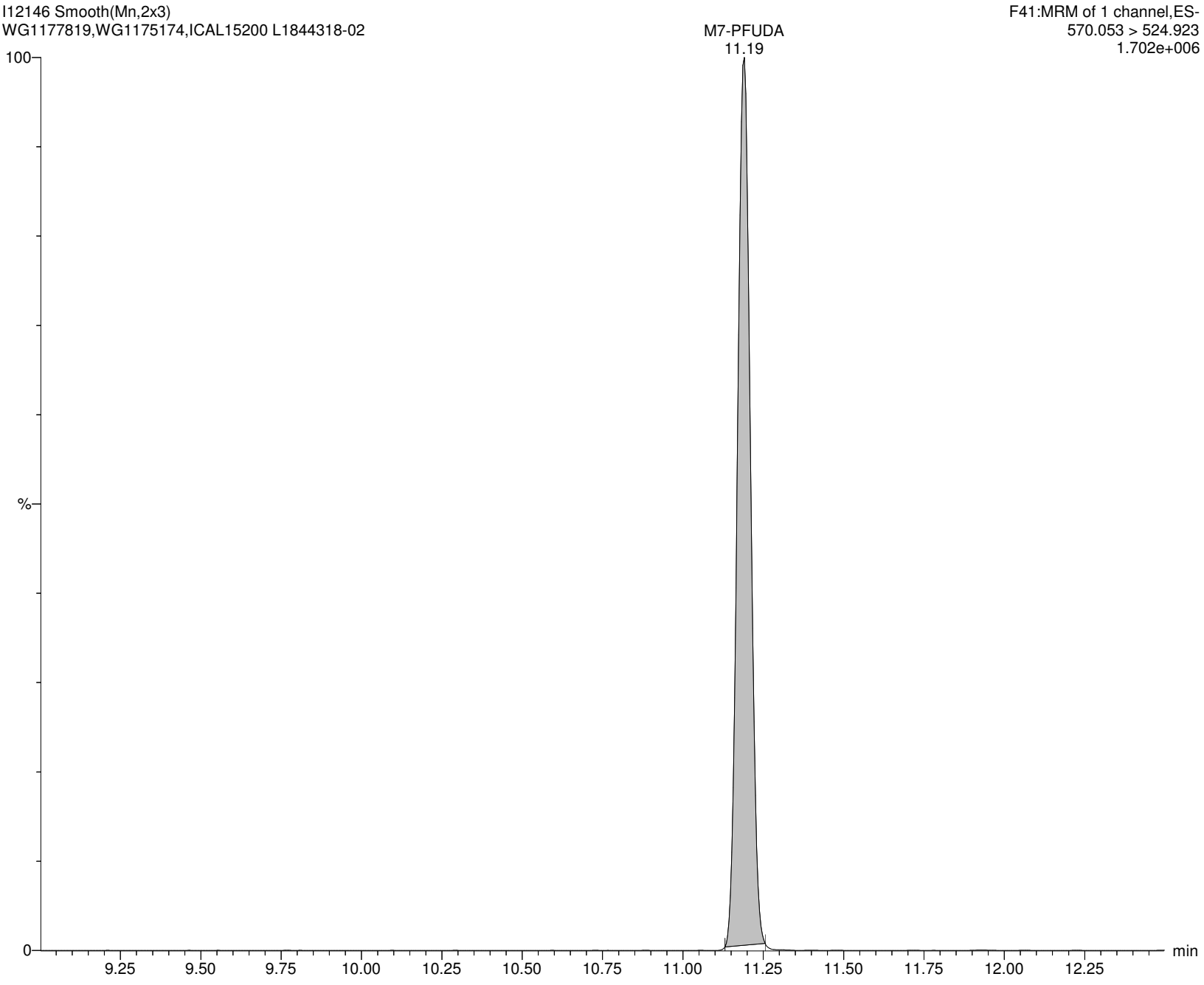


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:43 Eastern Standard Time

Name: I12146
ID: L1844318-02
Date: 10-Nov-2018
Time: 05:12:28
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M7-PFUDA



all concentration units in (ng/mL)

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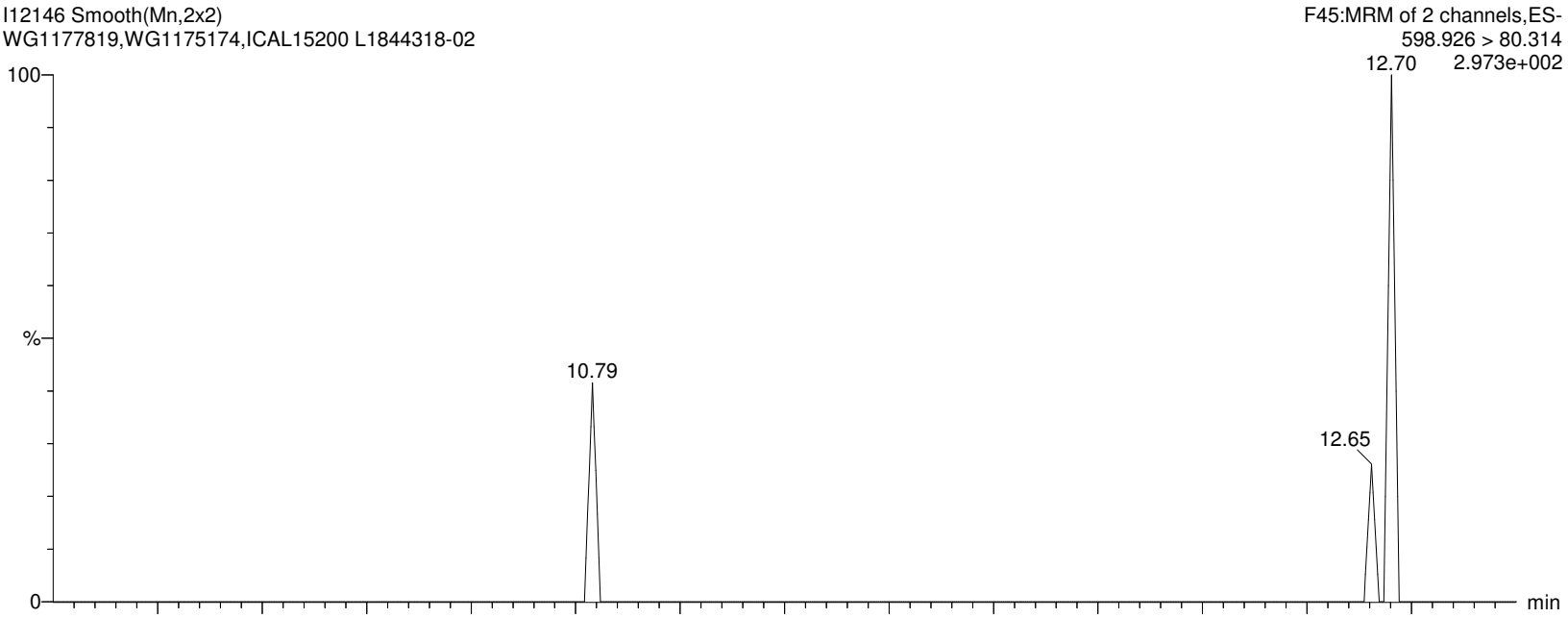
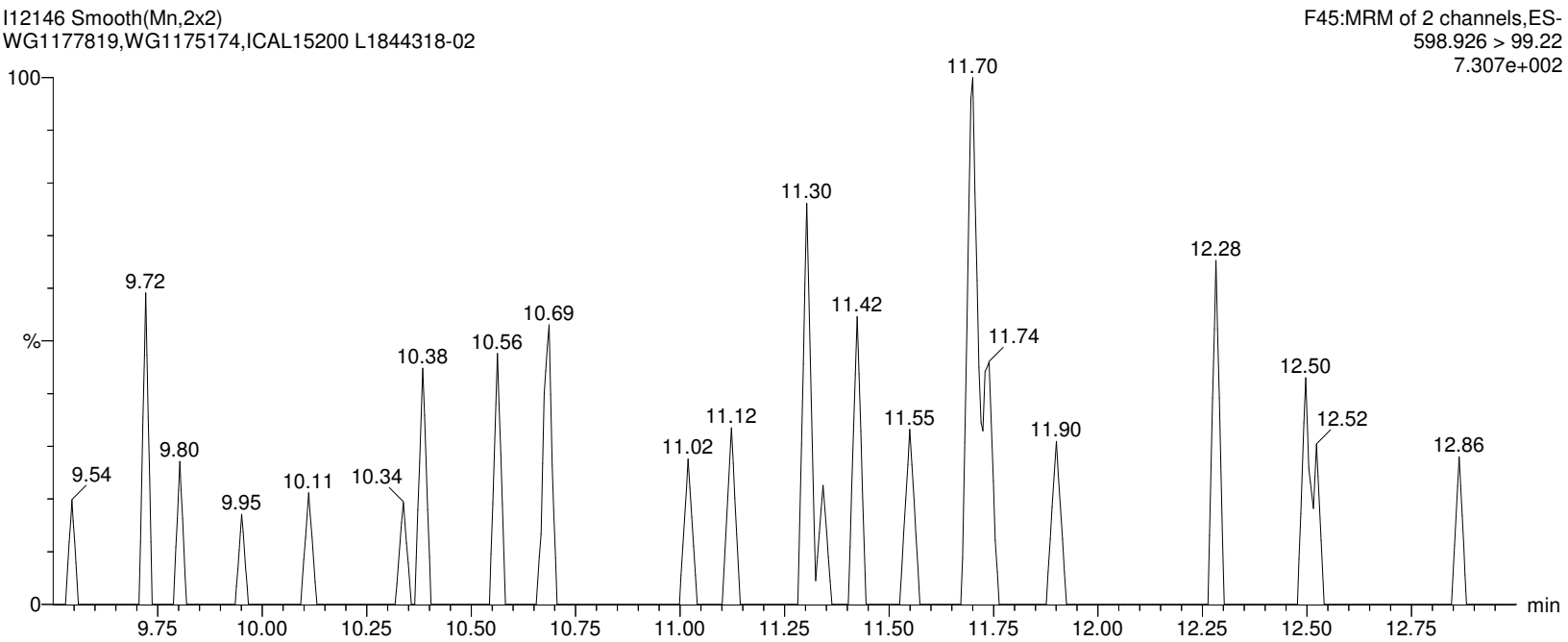
PFDS





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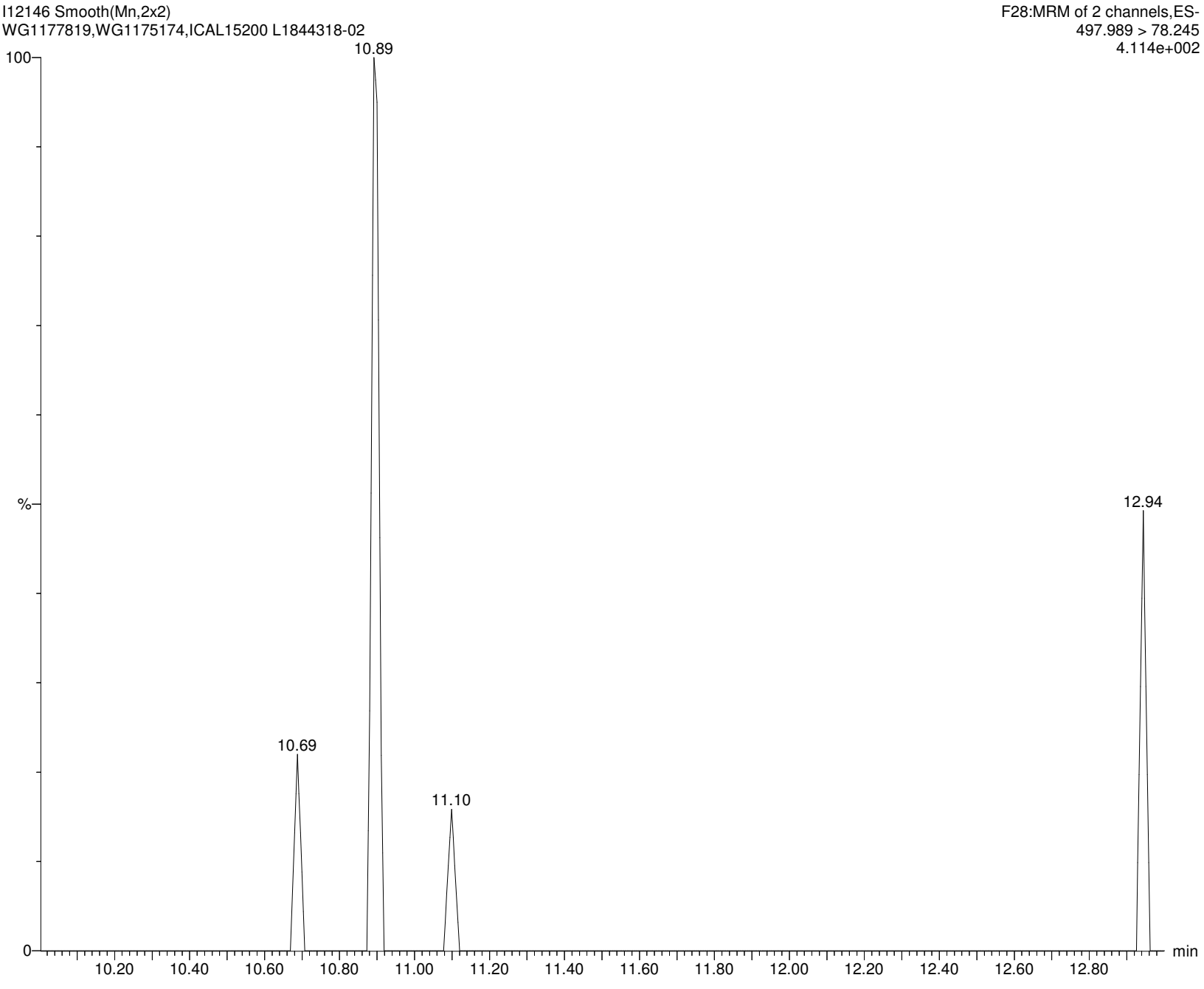
FOSA



all concentration units in (ng/mL)

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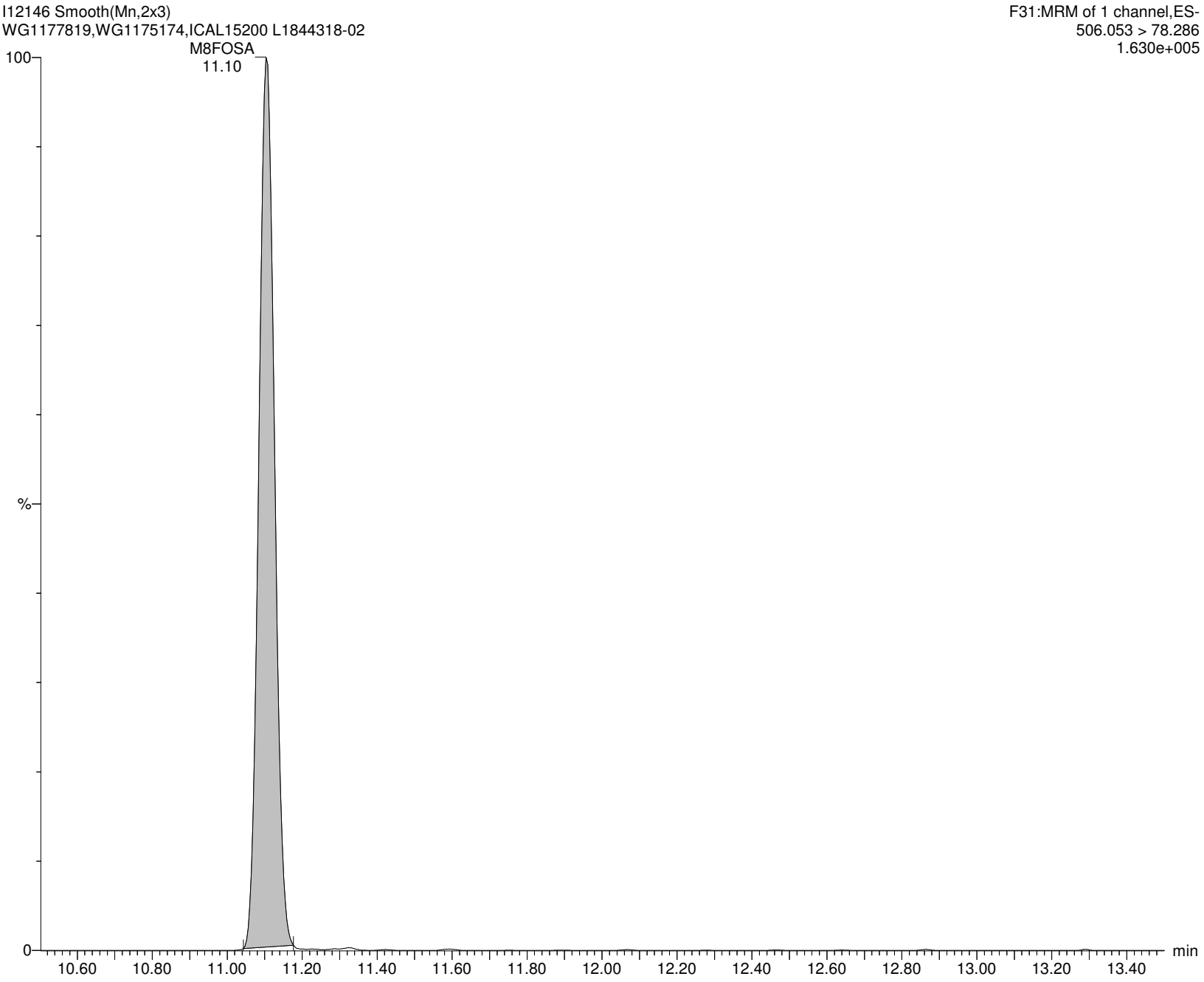
M8FOSA



all concentration units in (ng/mL)

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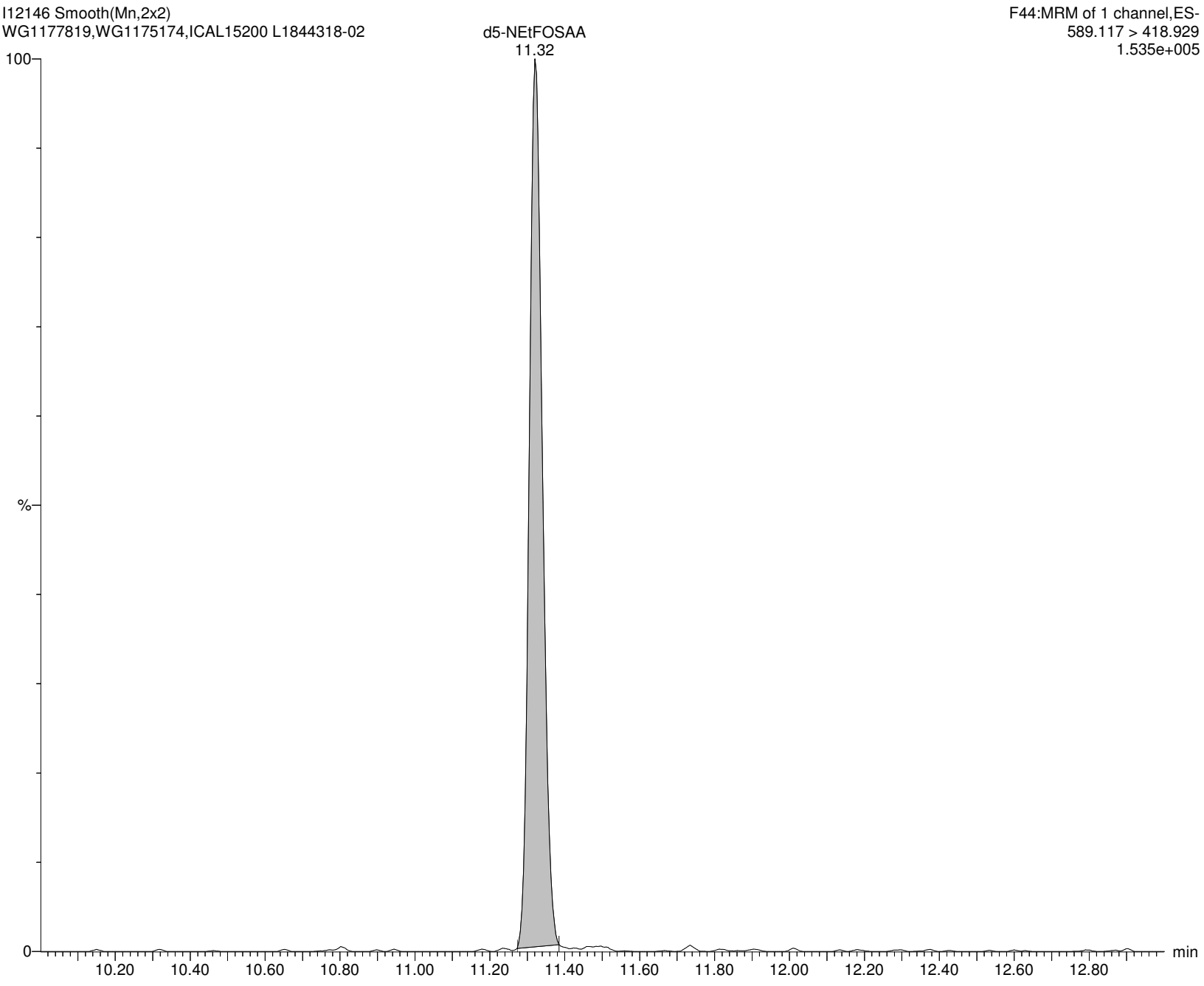
d5-NEtFOSAA



all concentration units in (ng/mL)

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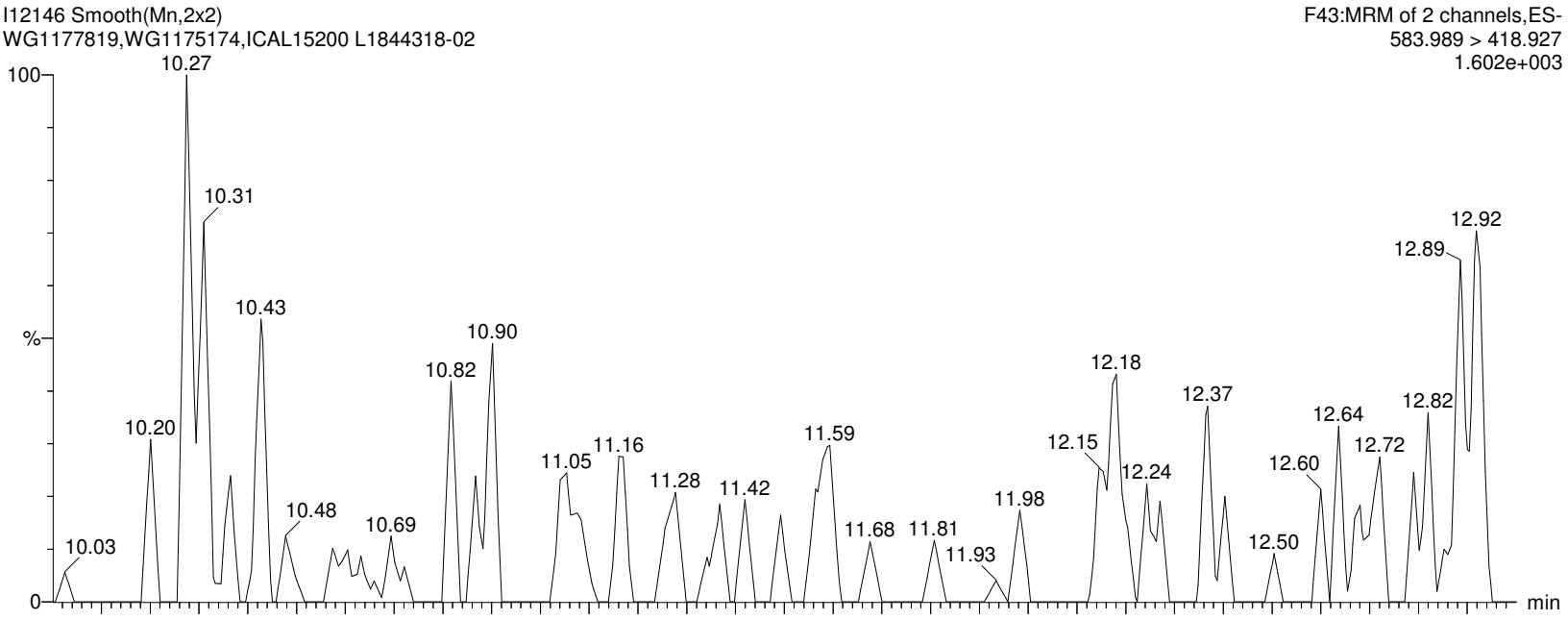

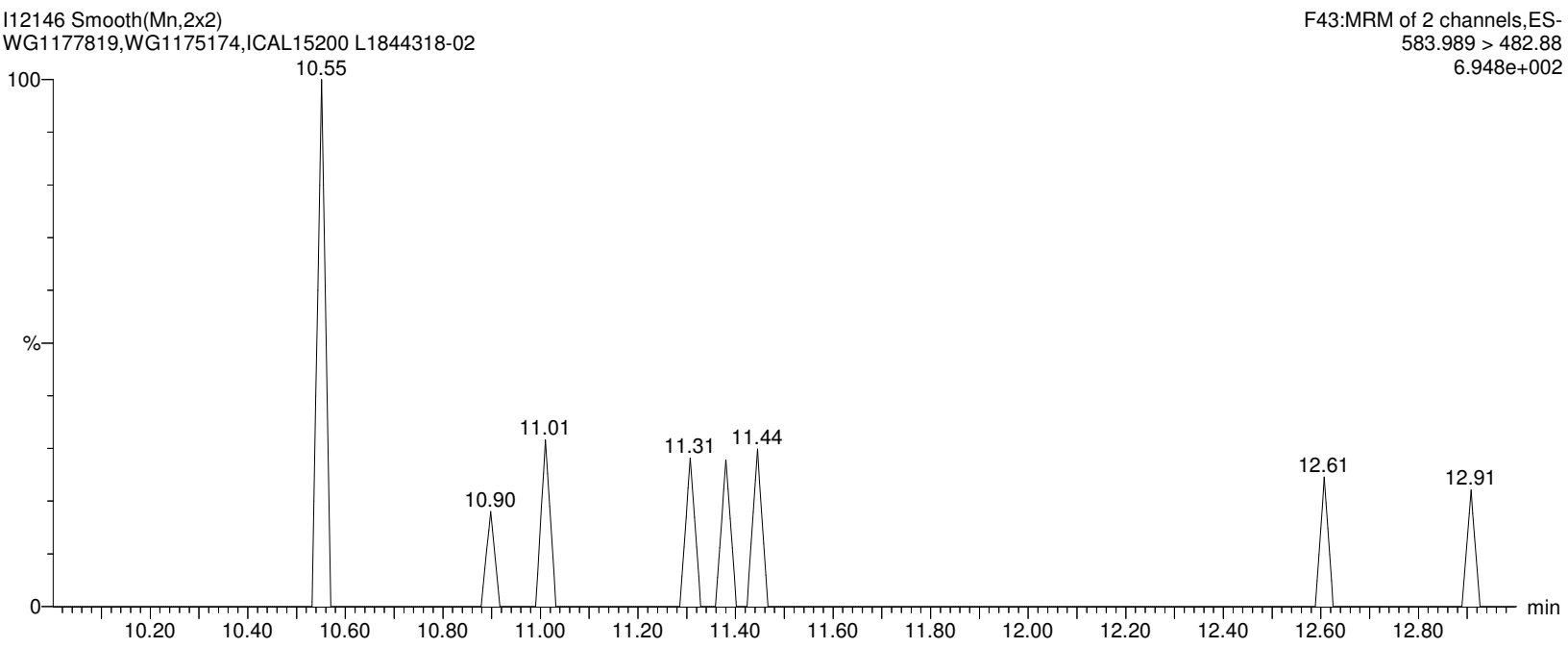

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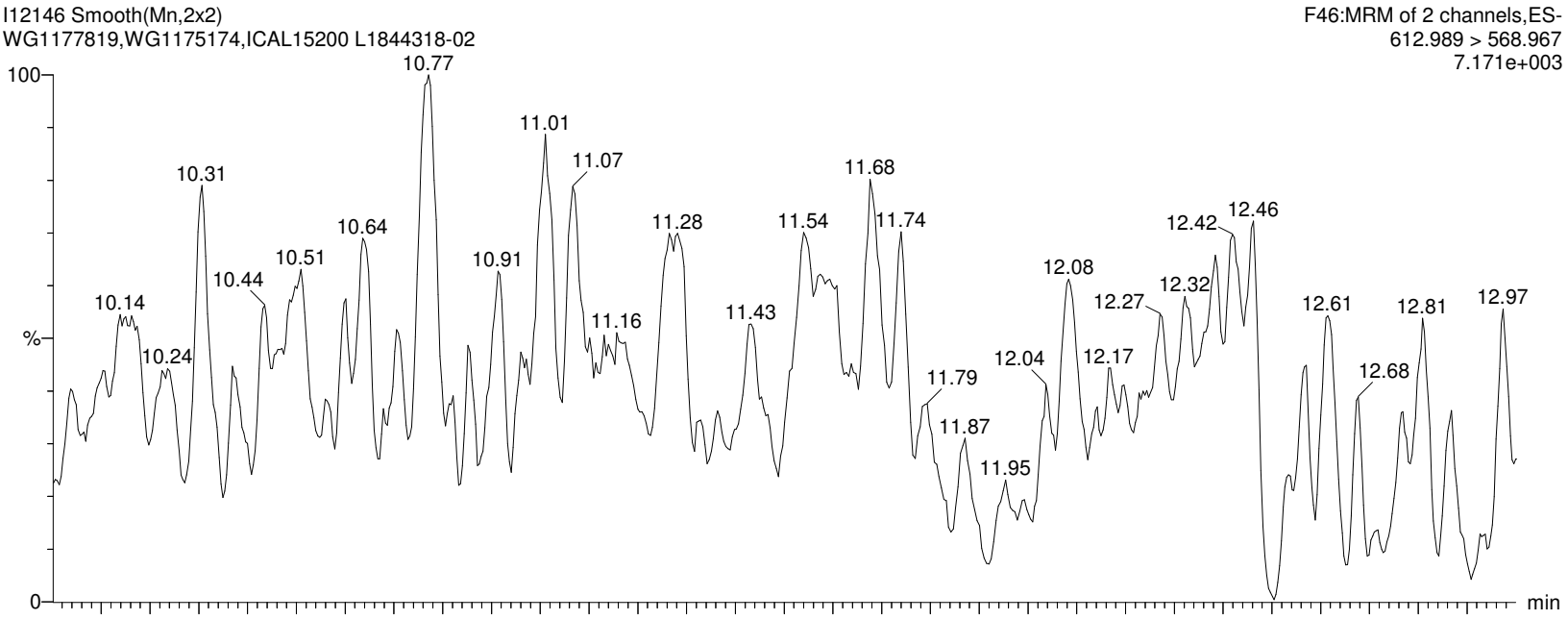

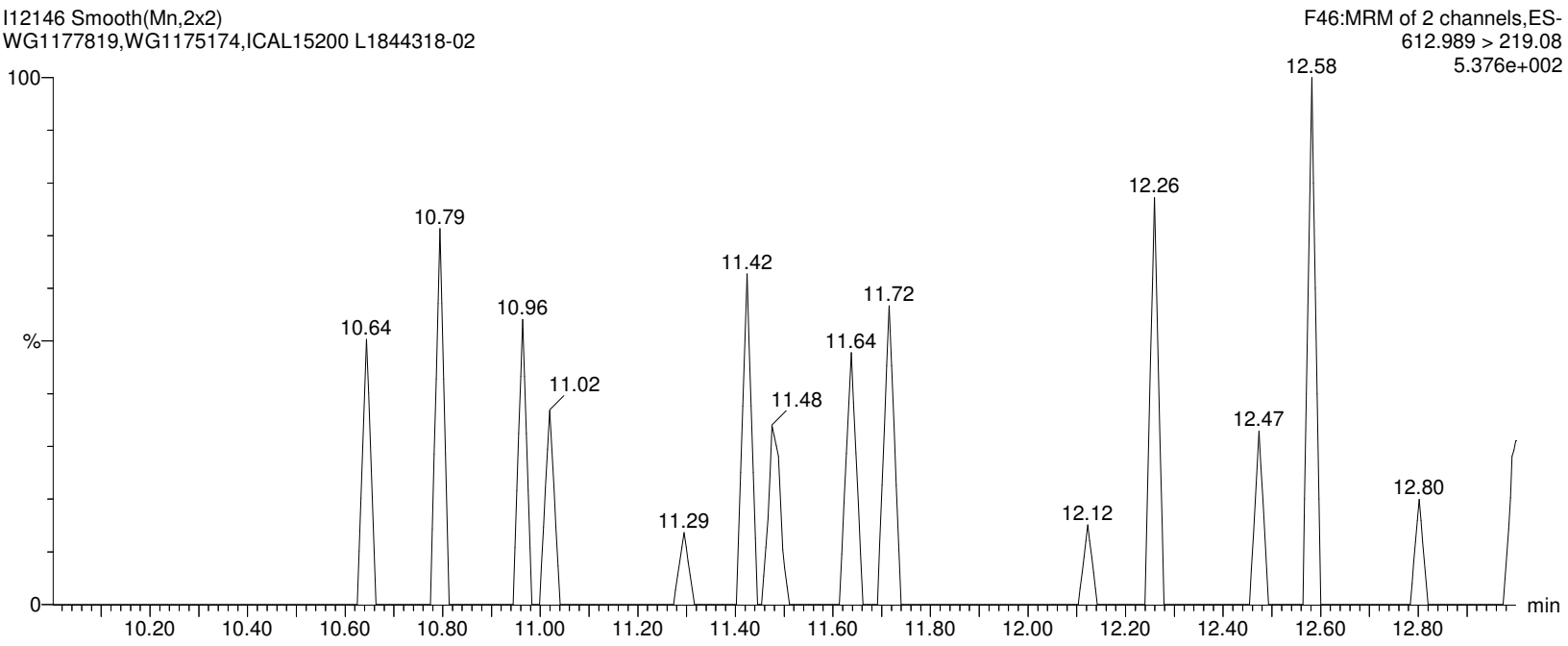

all concentration units in (ng/mL)

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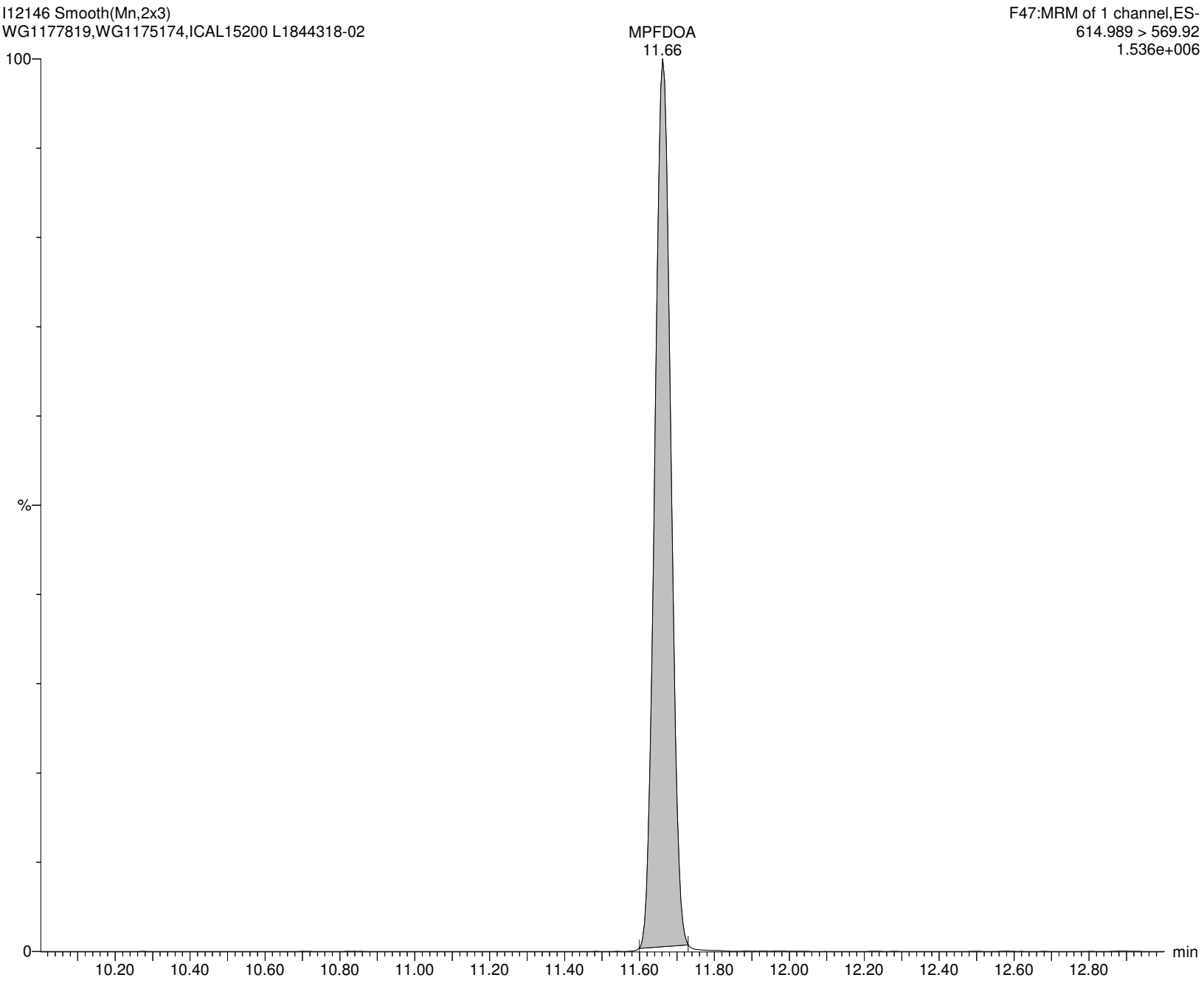

all concentration units in (ng/mL)

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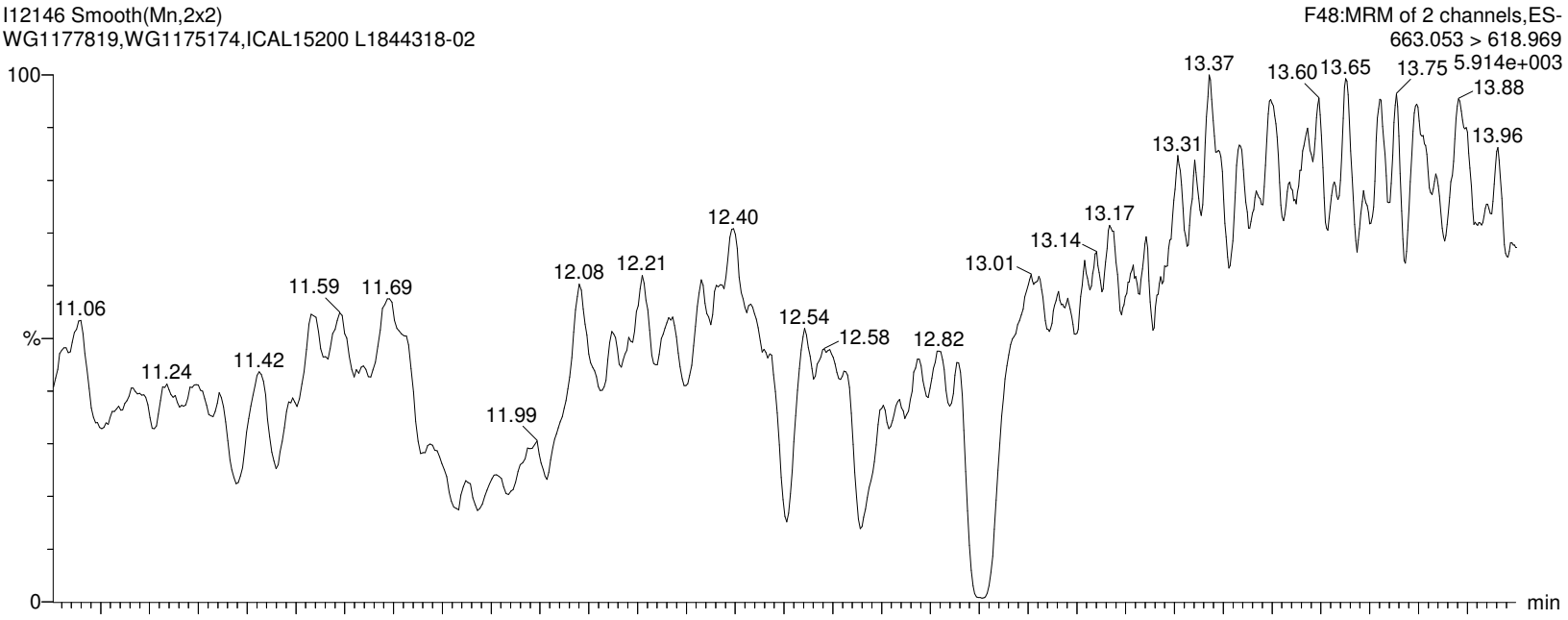

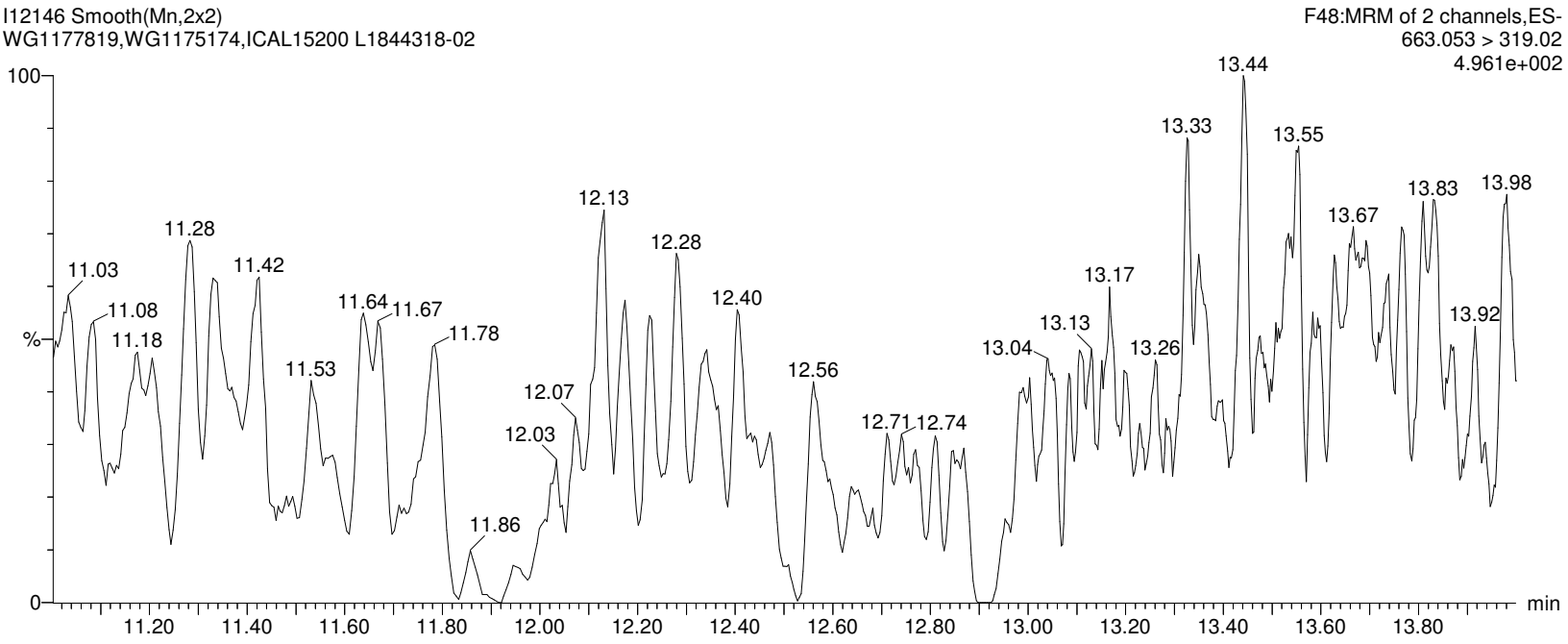

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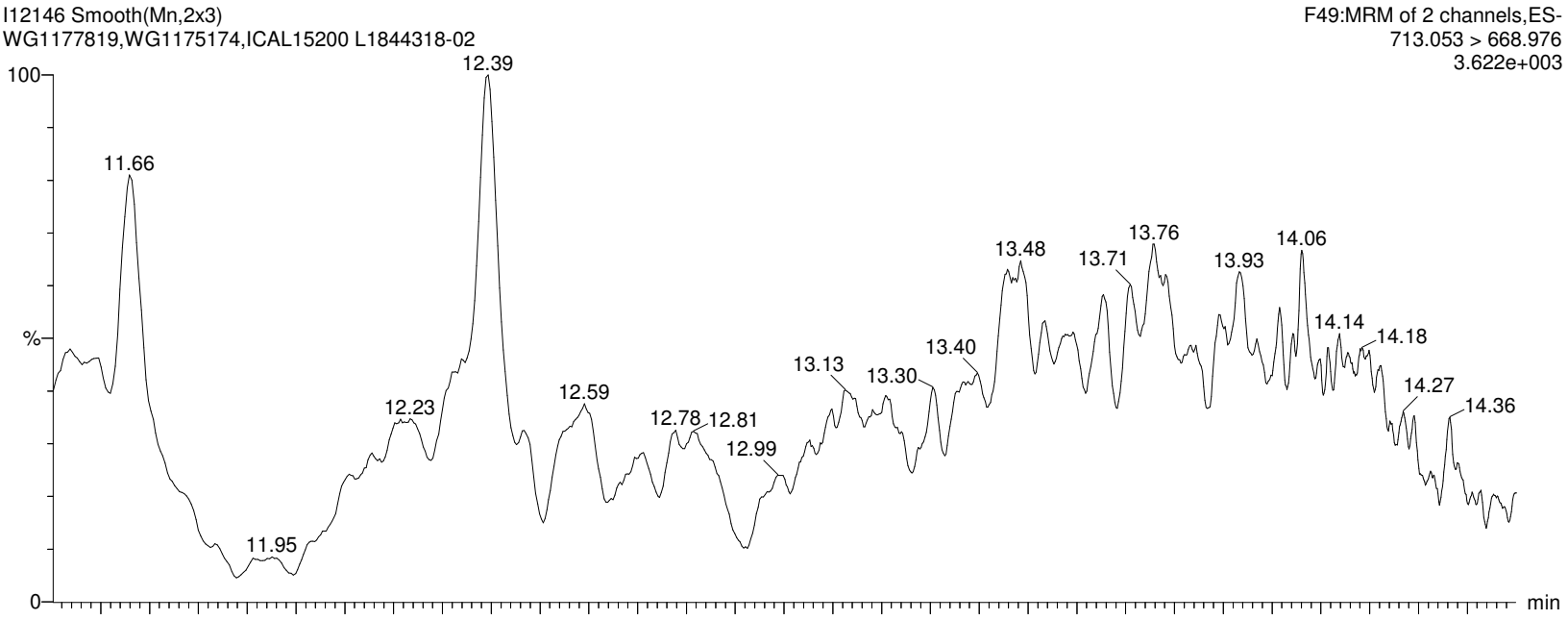

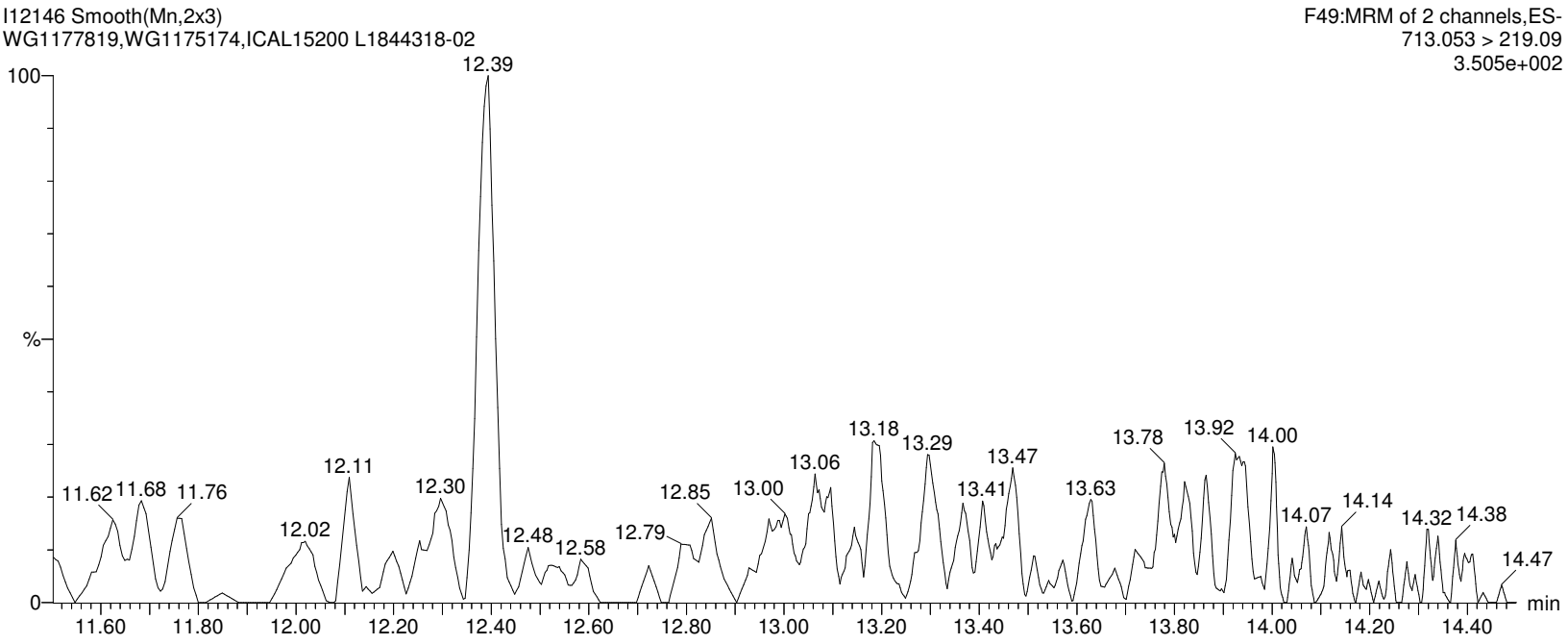

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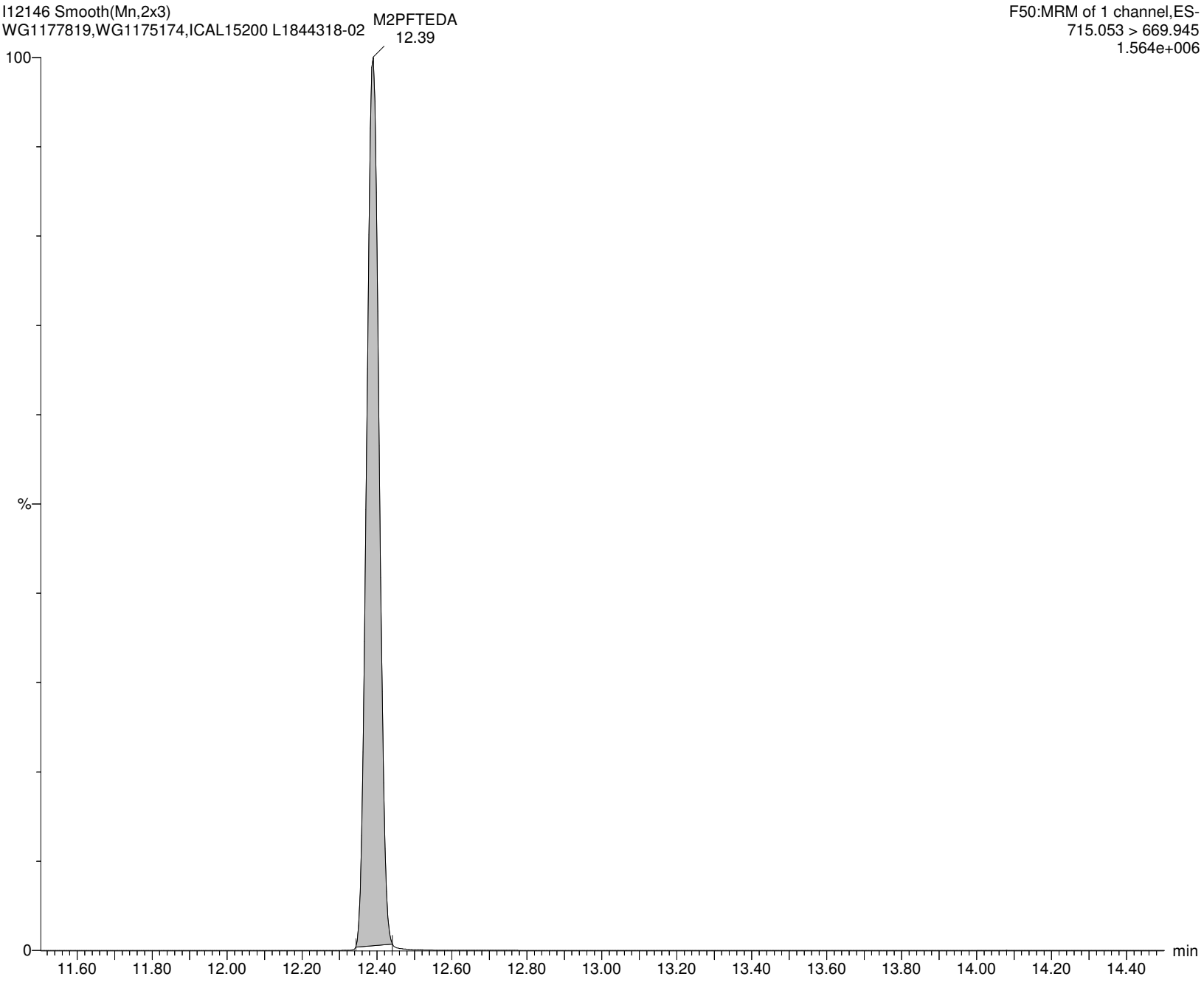

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-03
Name: I12147
Date: 10-Nov-2018
Time: 05:29:02
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	401		0.112		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	40177		4.340		na	43.4
3	MPFBA	INT STD	2.15	216.926 > 172.137	40993		10.741		na	107.4
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	58724		11.924		na	119.2
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	12357		9.584		na	95.8
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	5734		7.169		na	71.7
10	PFHxA	307-24-4	7.06	312.989 > 269.028	495		0.066		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	76921		9.591		na	95.9
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	414		0.041		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	102093		10.825		na	108.3
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8653		12.082		na	120.8
19	br-PFOA	335-67-1	9.07	412.989 > 368.9	237		0.025	8.70	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	1695		0.178	14.32	YES	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	111330		5.896		na	59.0
22	PFOA	335-67-1		412.989 > 368.9	1933		0.203		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	97641		10.875		na	108.8
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4286		6.456		na	64.6
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	87597		9.782		na	97.8
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	6		0.004	8.16	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	53		0.047	2.13	YES	
31	PFOS	1763-23-1		498.989 > 80.294	59		0.051		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10344		6.385		na	63.9
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10791		11.187		na	111.9
34	PFDA	335-76-2	10.65	513.053 > 468.906	507		0.074		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	83946		5.647		na	56.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	77346		10.205		na	102.0
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2393		6.138		na	61.4
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	5907		7.229		na	72.3
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	74133		11.685		na	116.9
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	7239		2.677		na	26.8
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5962		7.564		na	75.6
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	71361		10.011		na	100.1
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	59299		11.232		na	112.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:44 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
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Name: I12147
ID: L1844318-03
Date: 10-Nov-2018
Time: 05:29:02
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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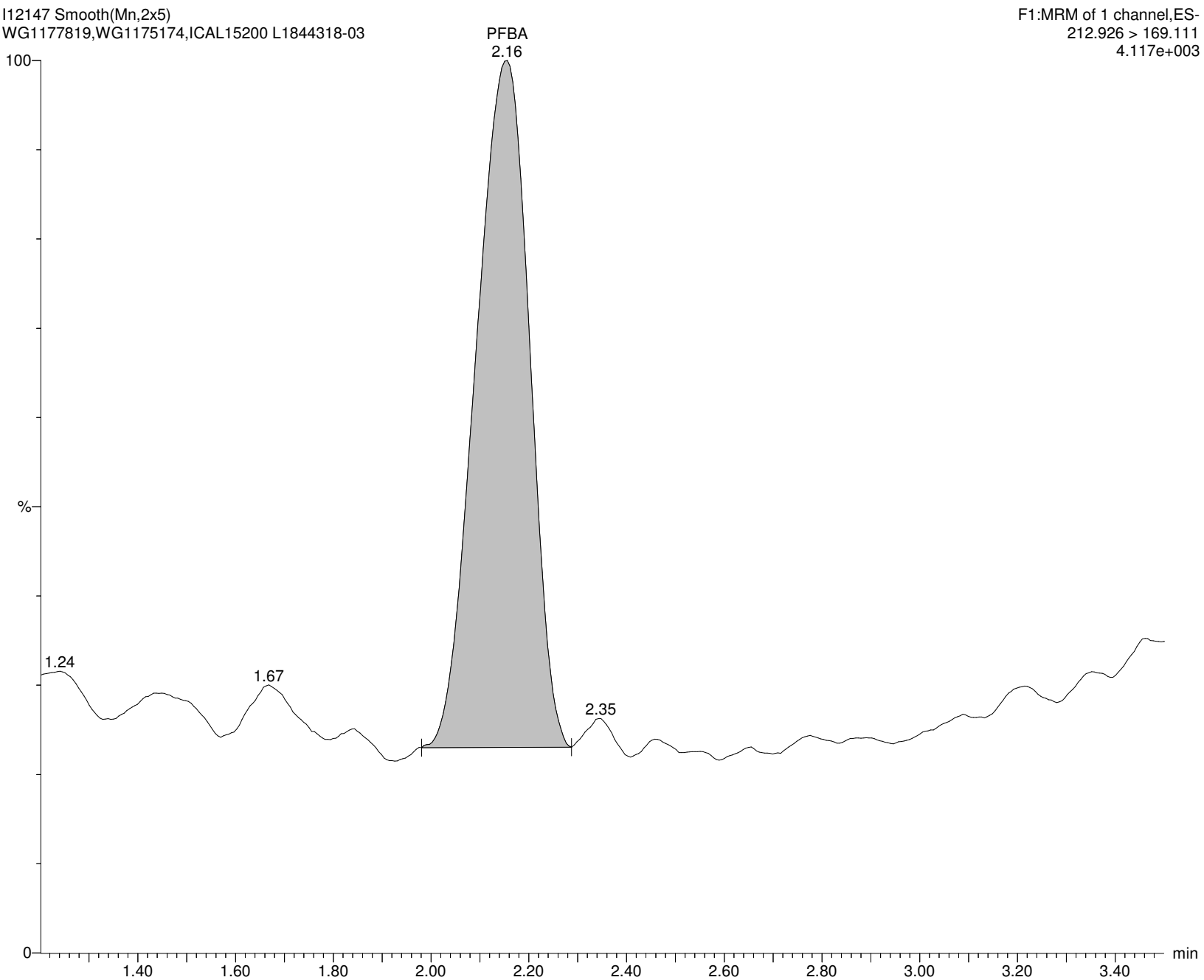

all concentration units in (ng/mL)

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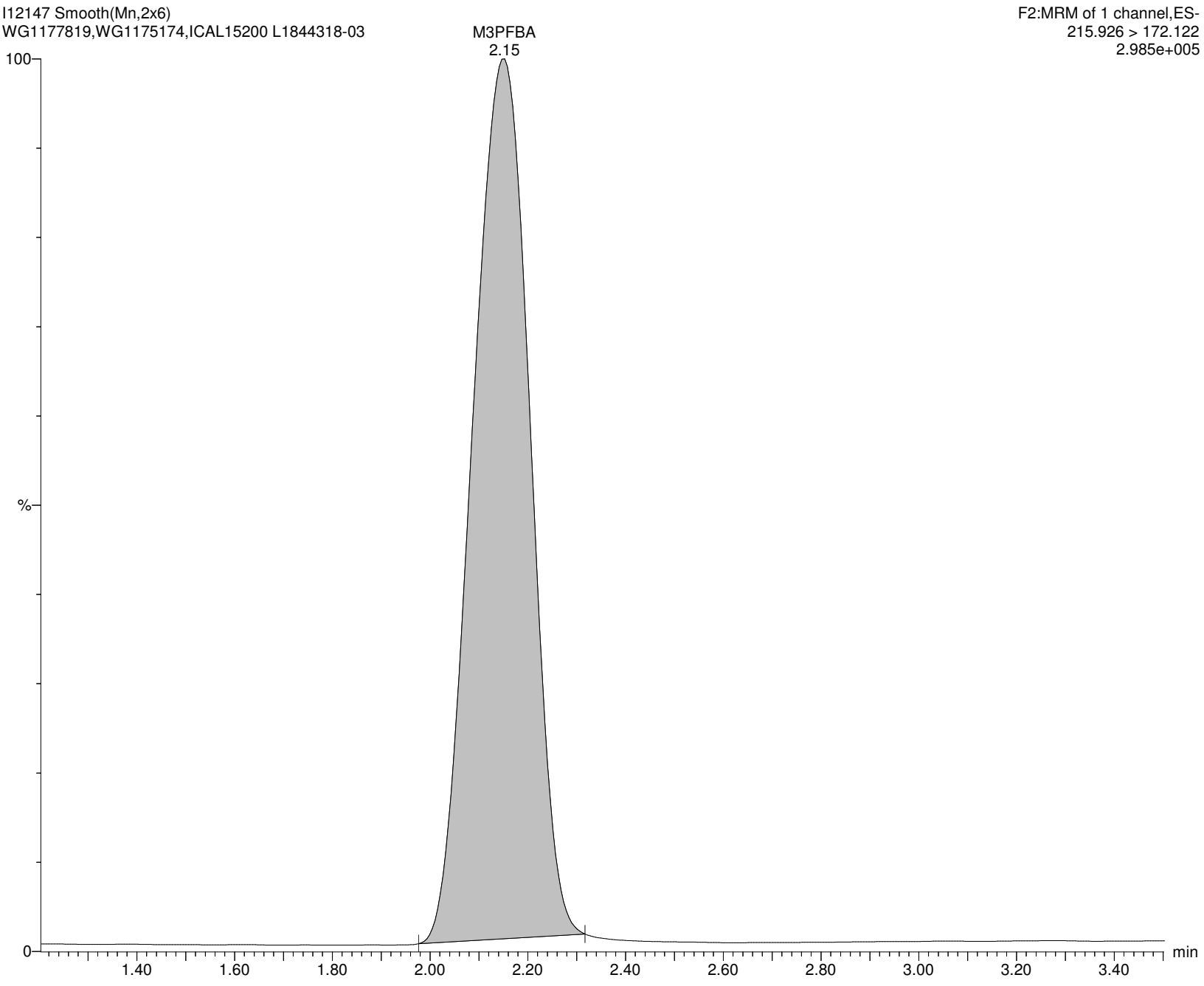

all concentration units in (ng/mL)

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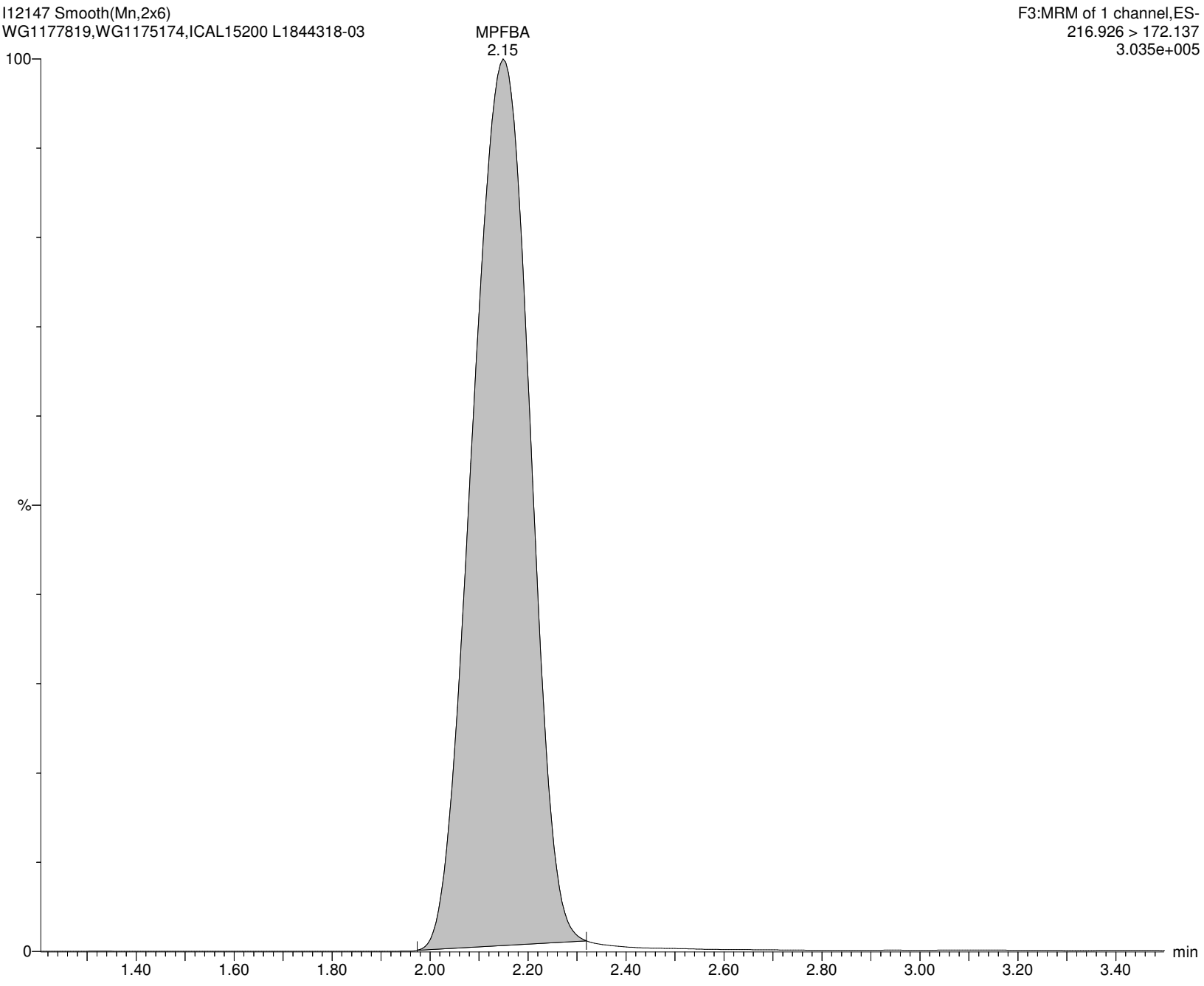

all concentration units in (ng/mL)

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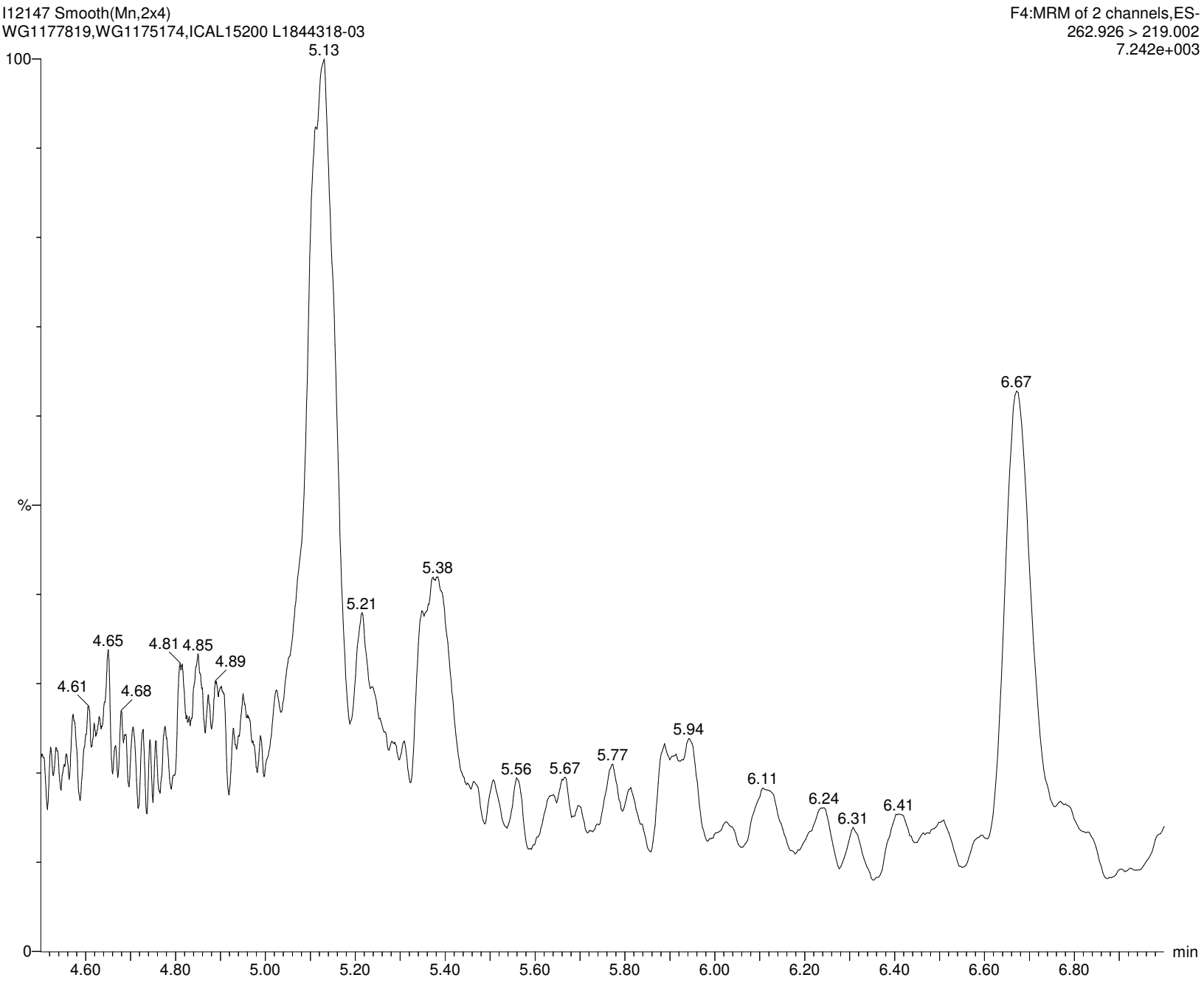

all concentration units in (ng/mL)

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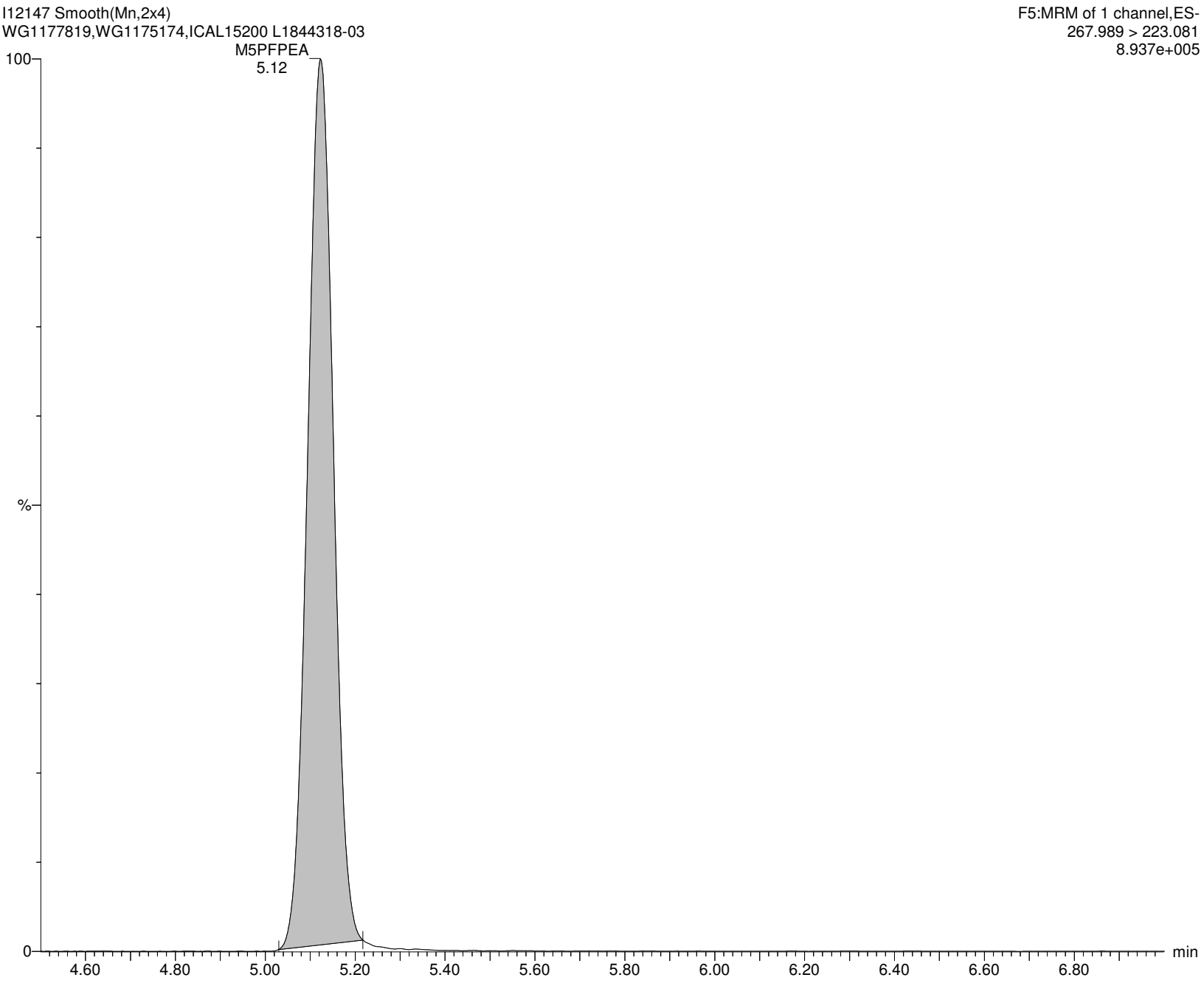

all concentration units in (ng/mL)

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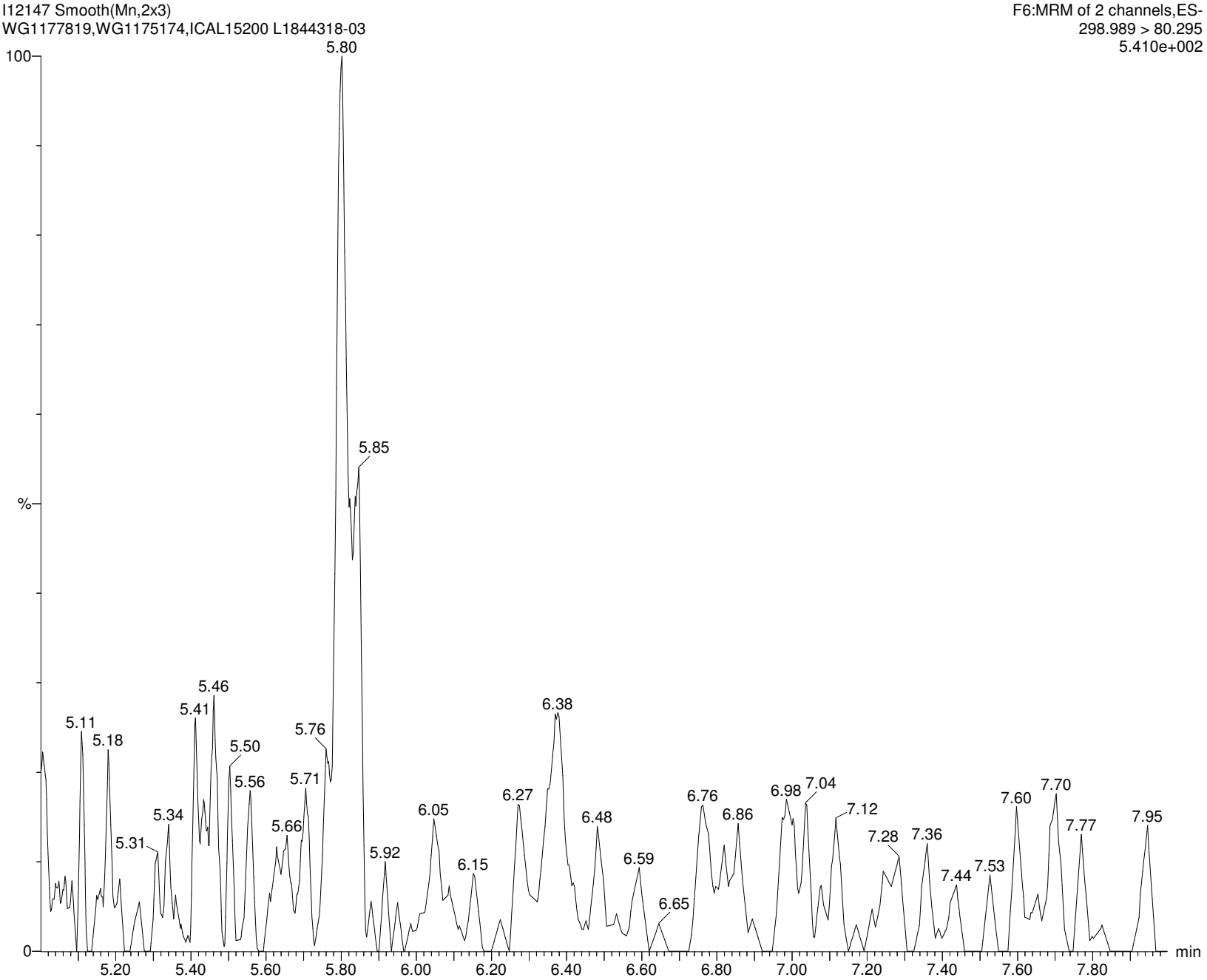

all concentration units in (ng/mL)

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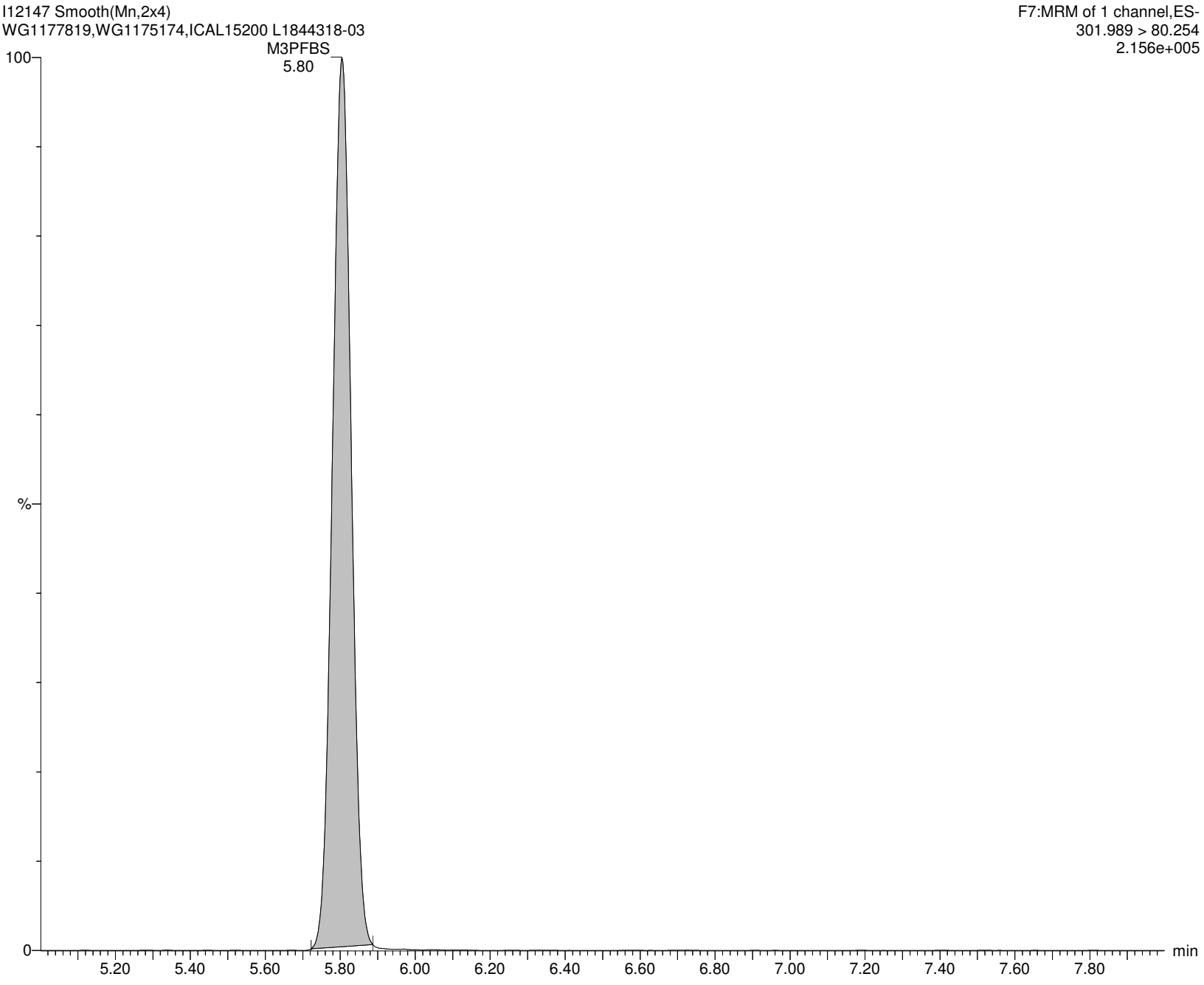

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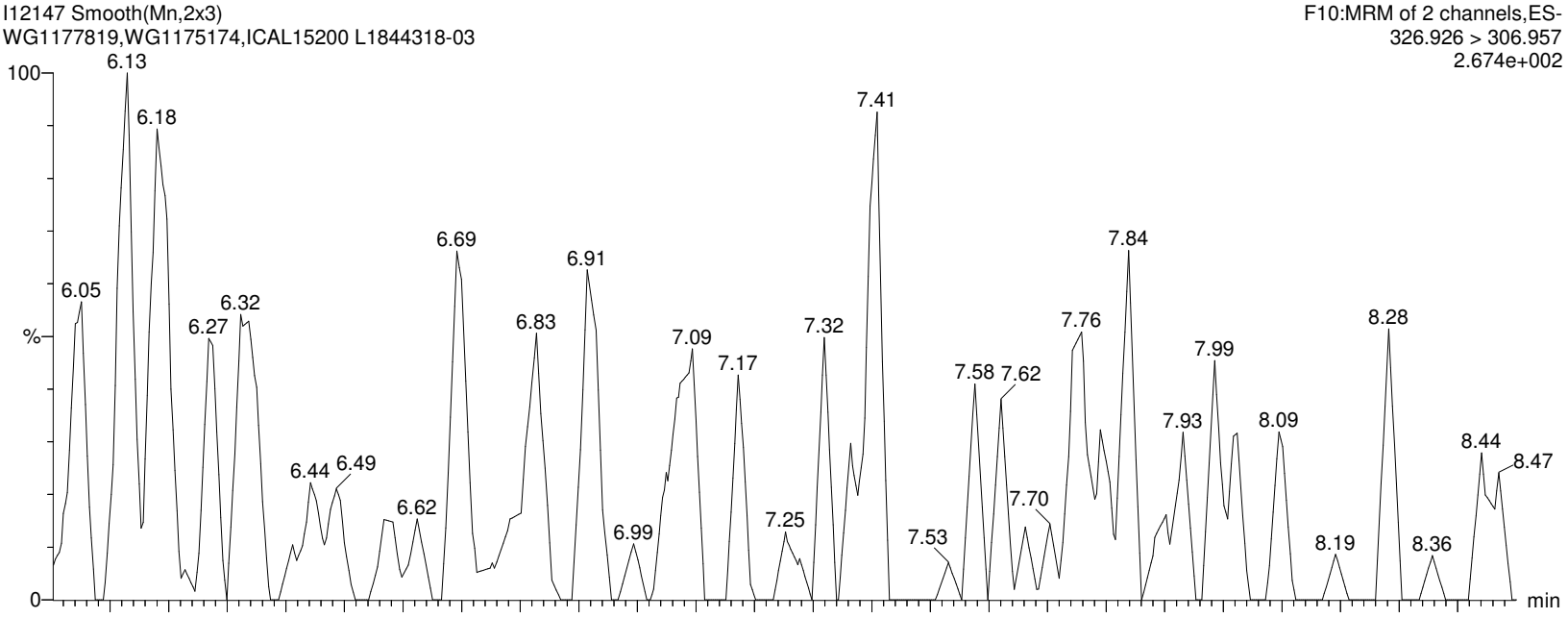

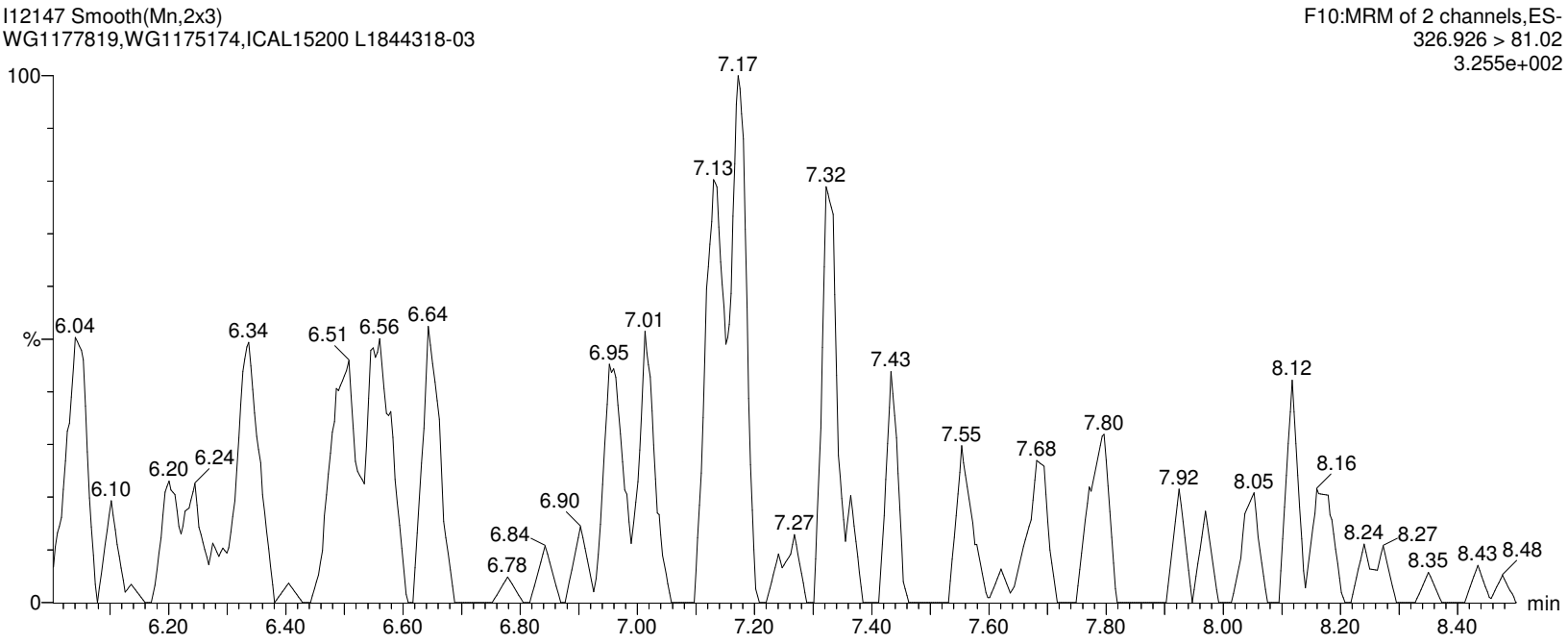

all concentration units in (ng/mL)

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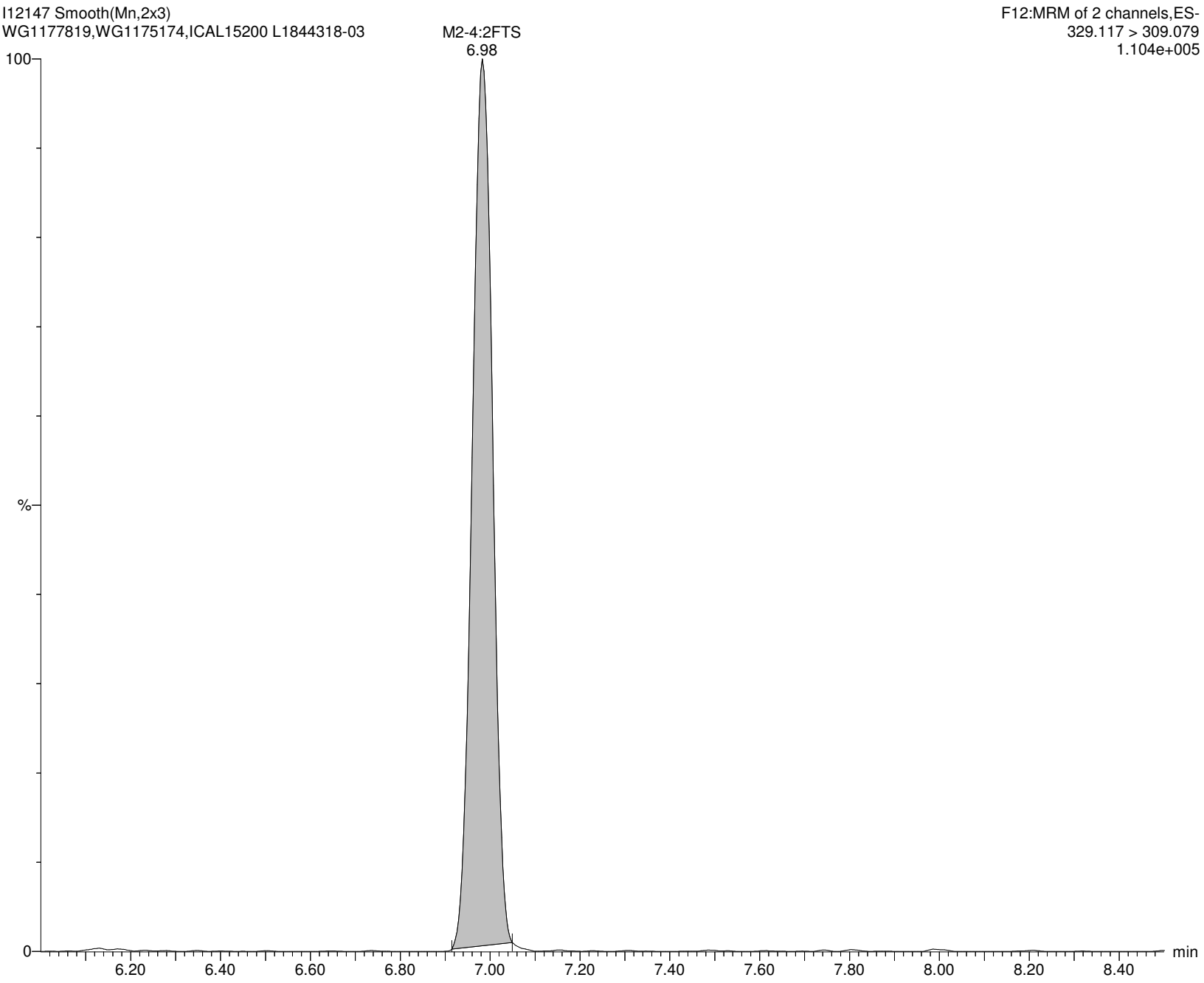
M2-4:2FTS



all concentration units in (ng/mL)

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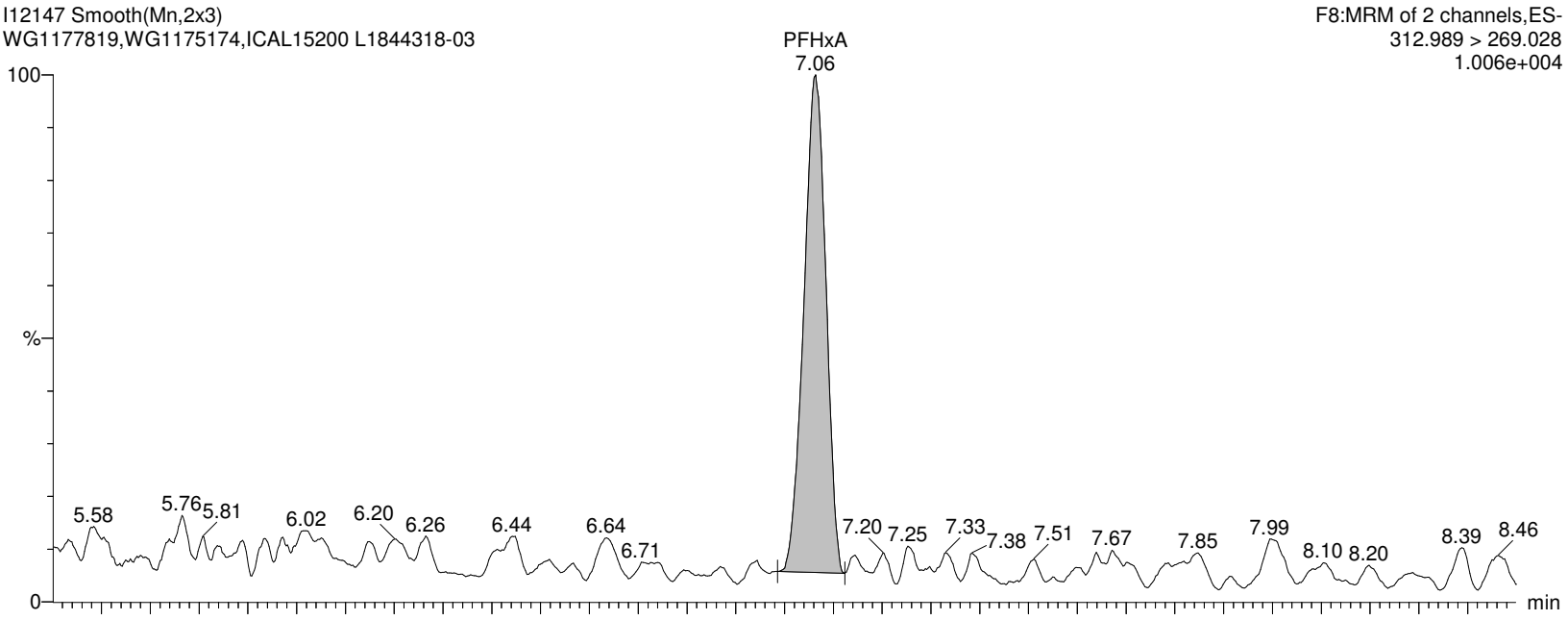
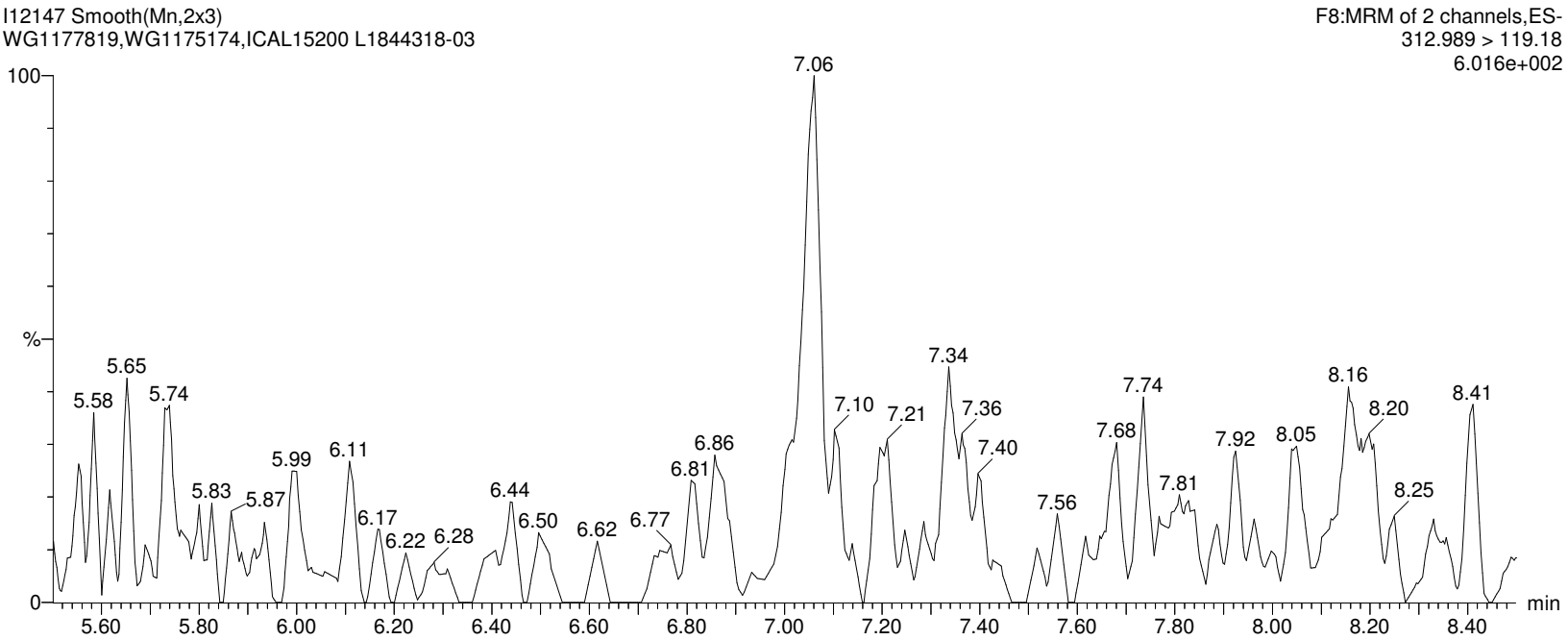
PFHxA





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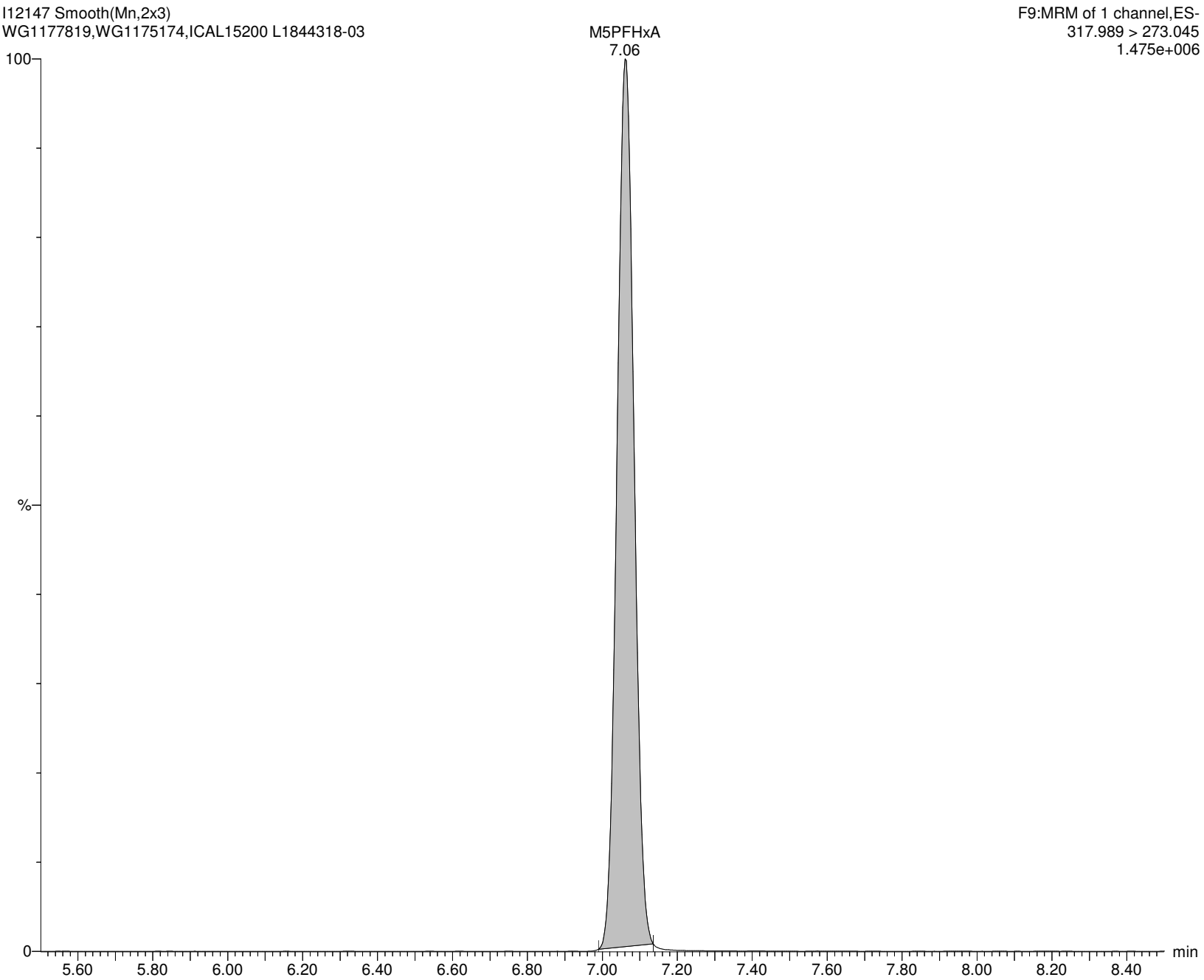

all concentration units in (ng/mL)

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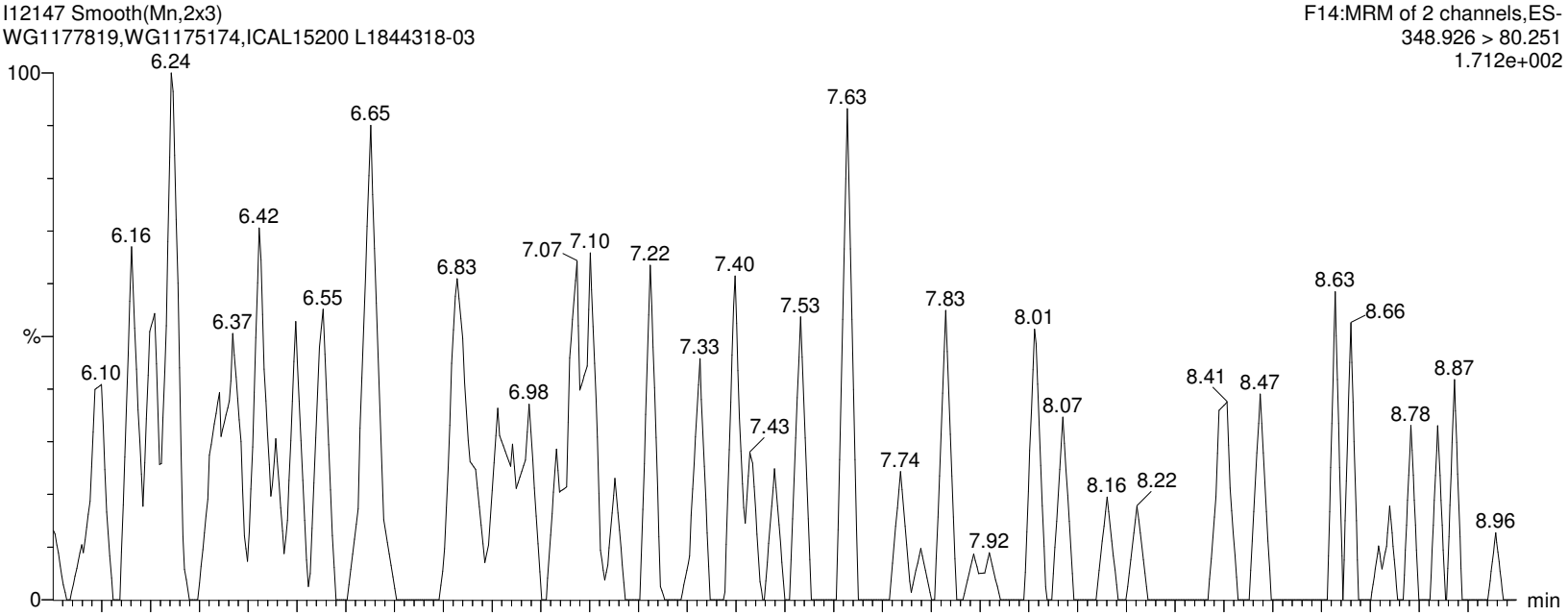

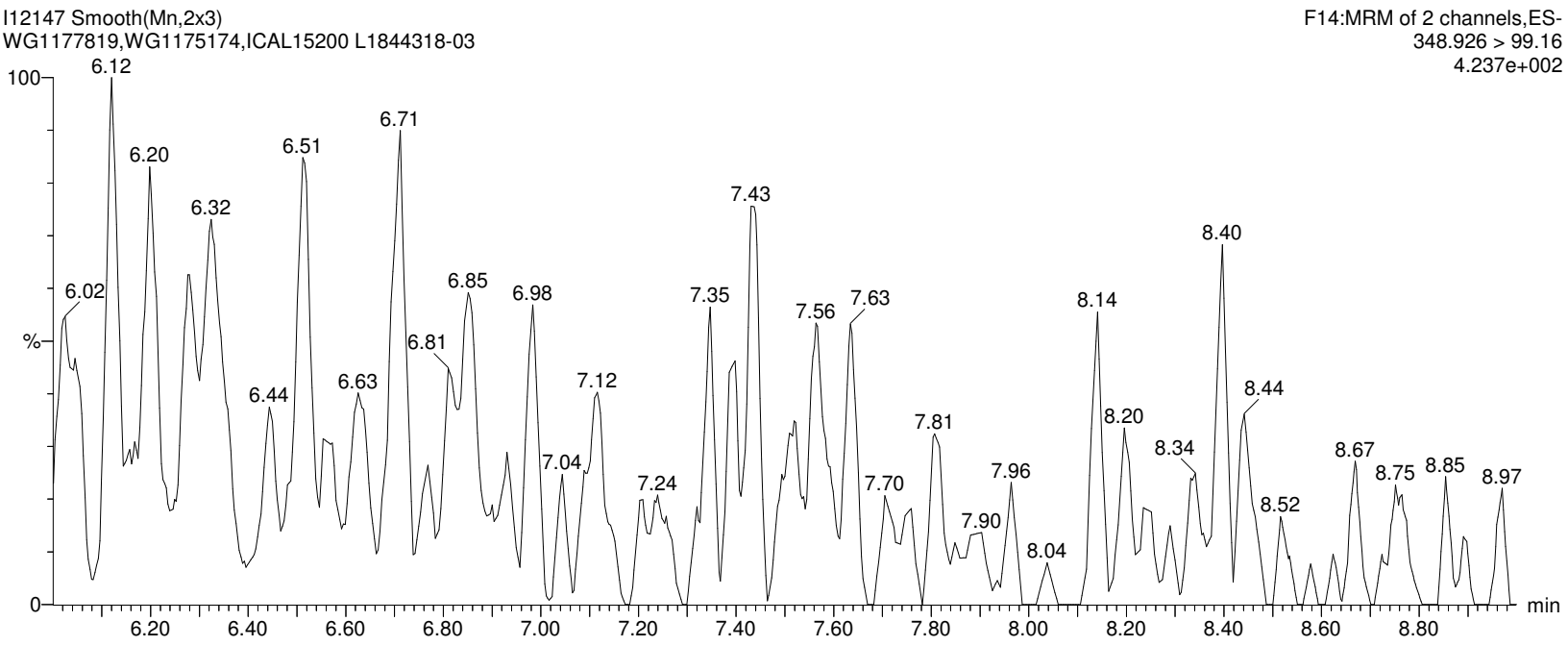

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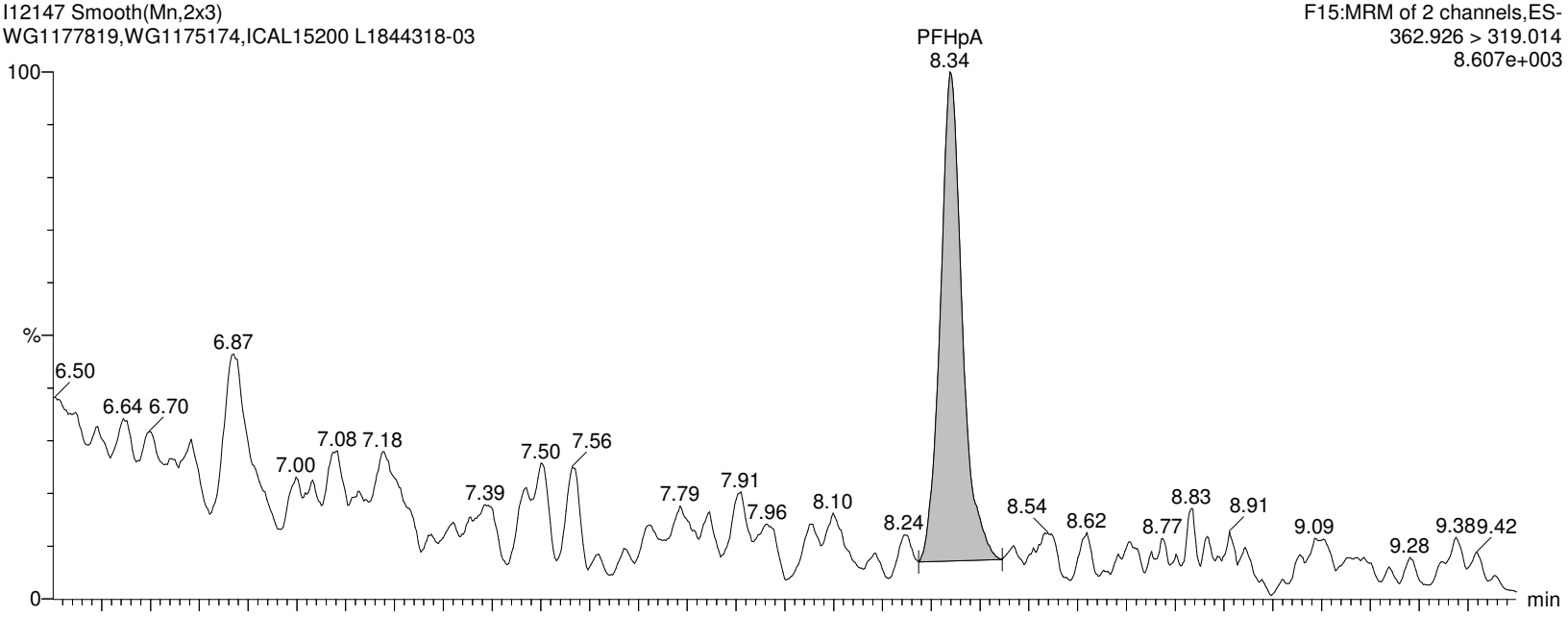

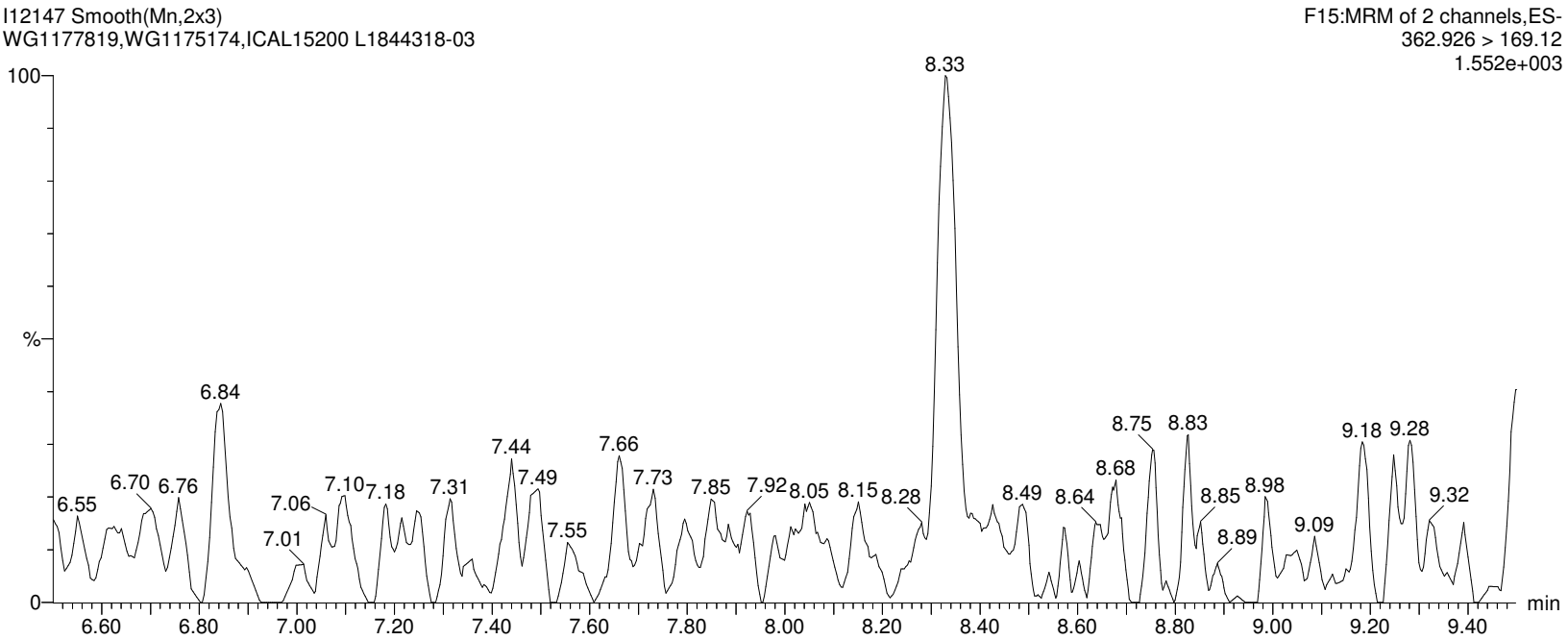

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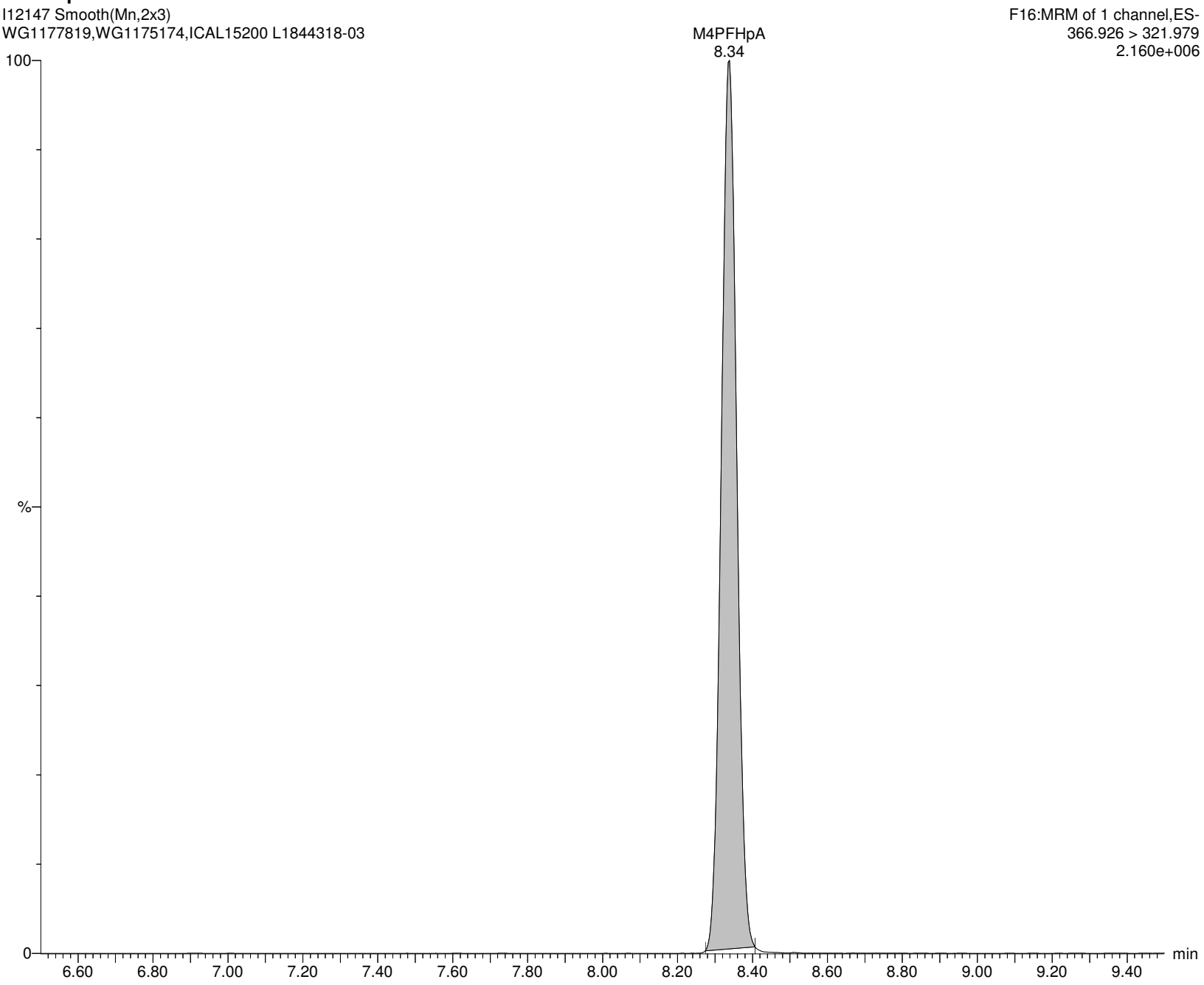

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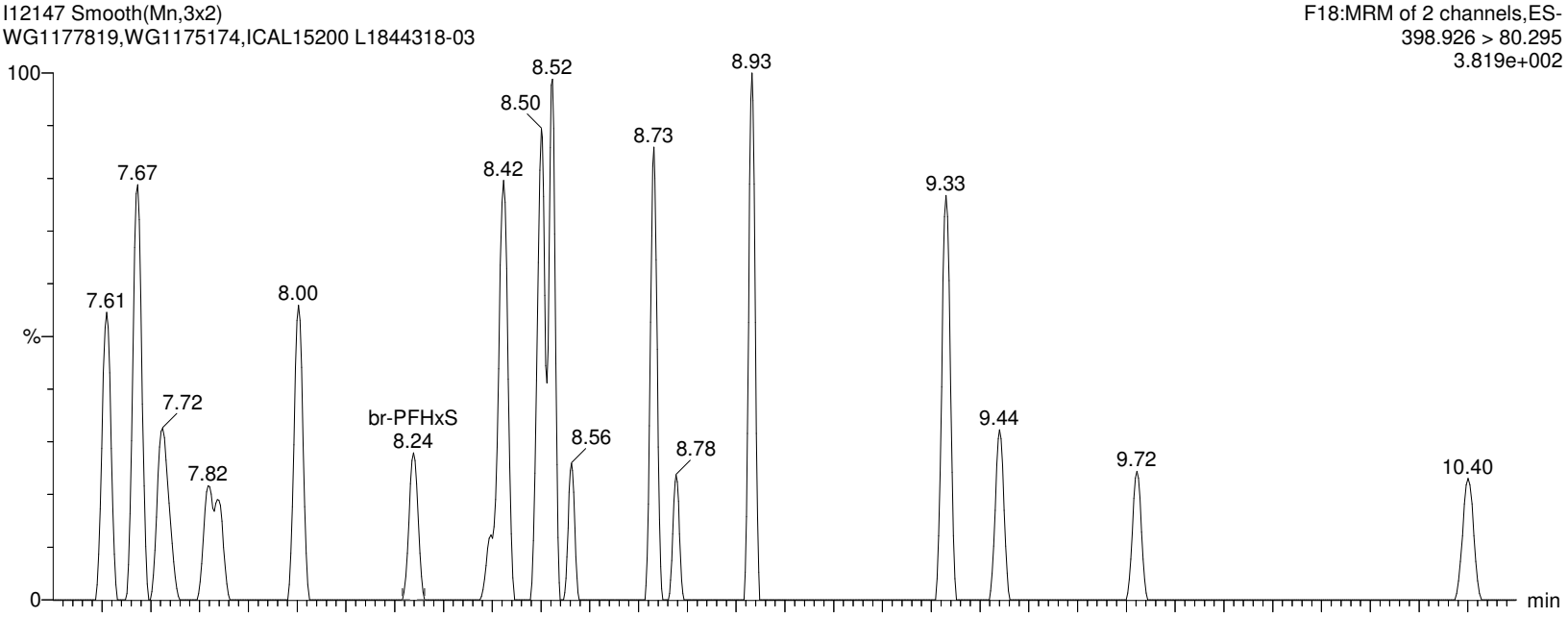

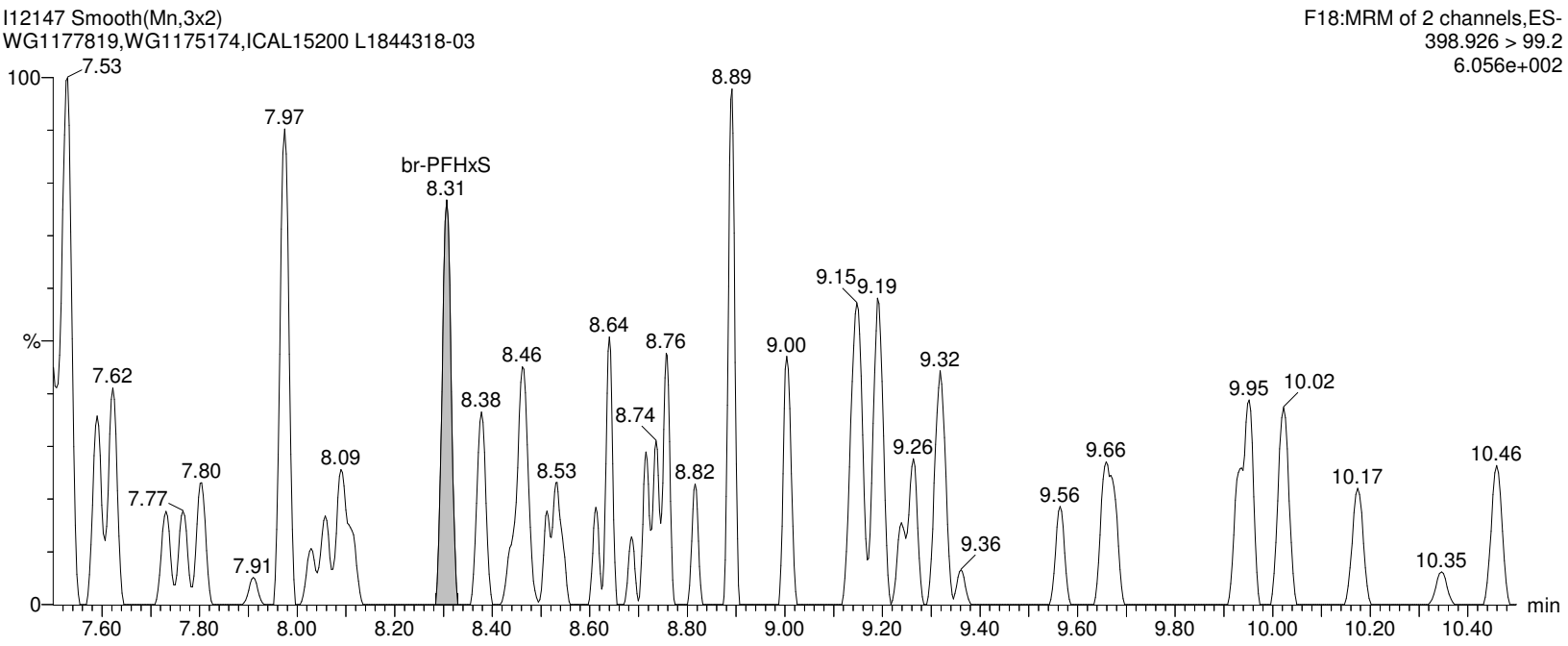

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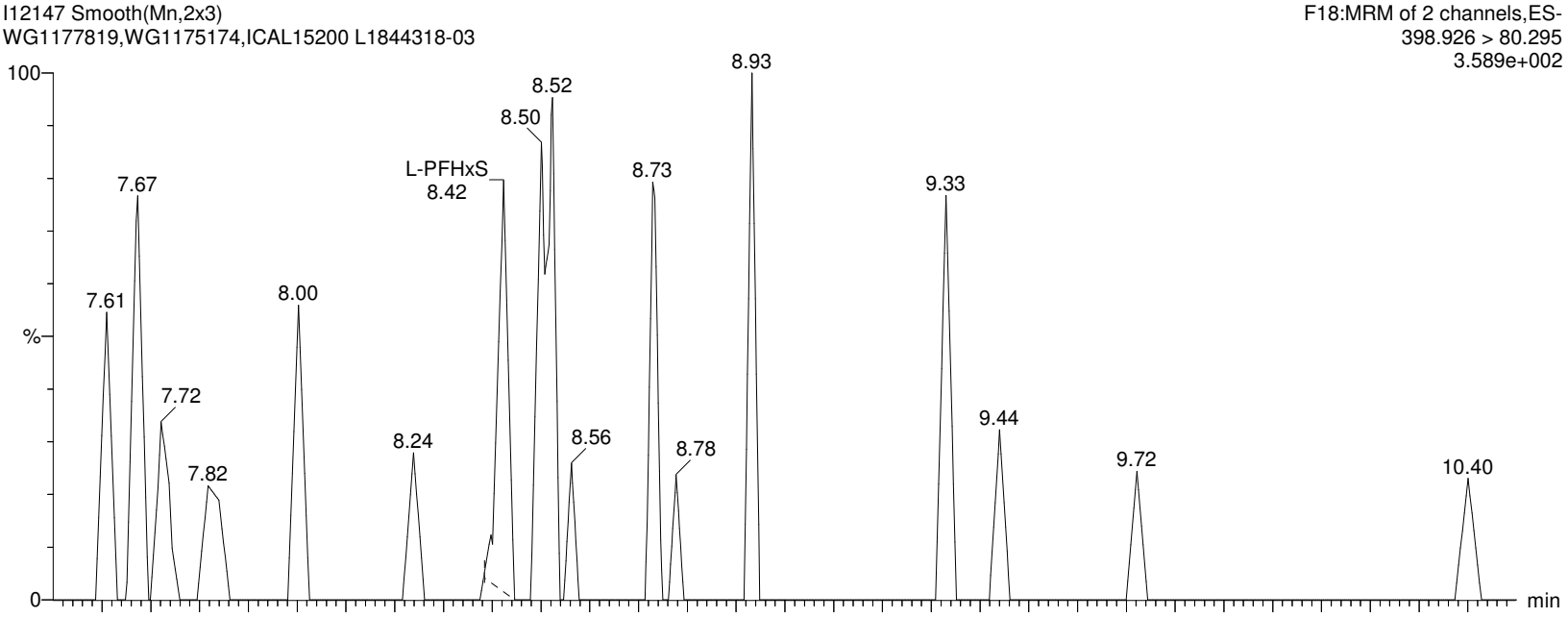

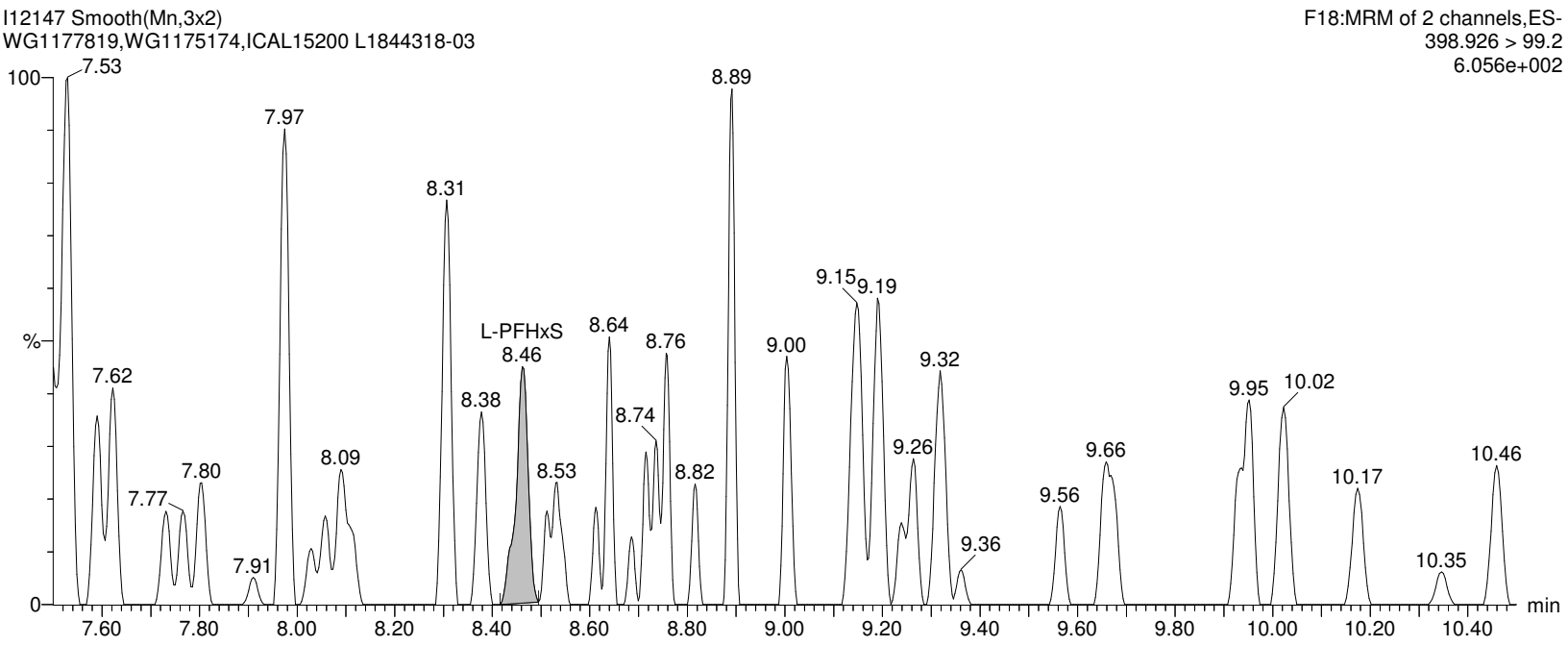

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:44 Eastern Standard Time

Name: I12147
ID: L1844318-03
Date: 10-Nov-2018
Time: 05:29:02
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
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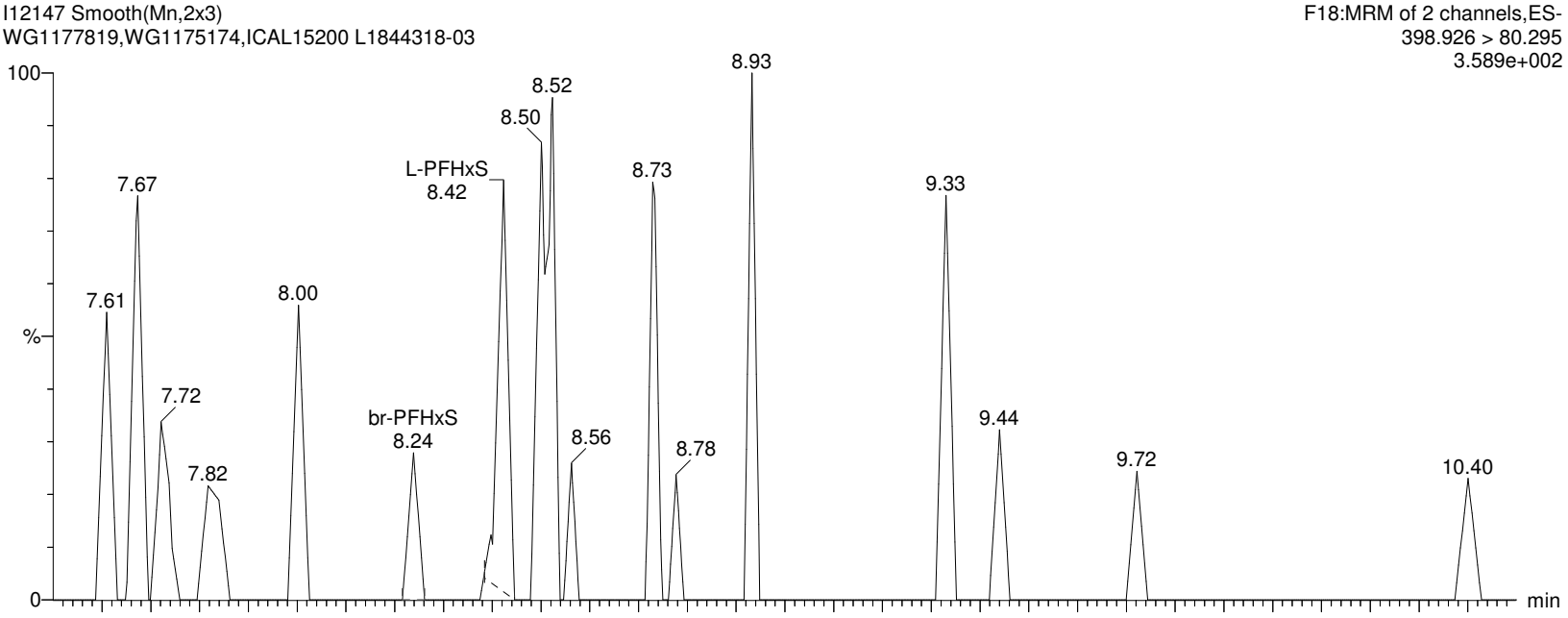

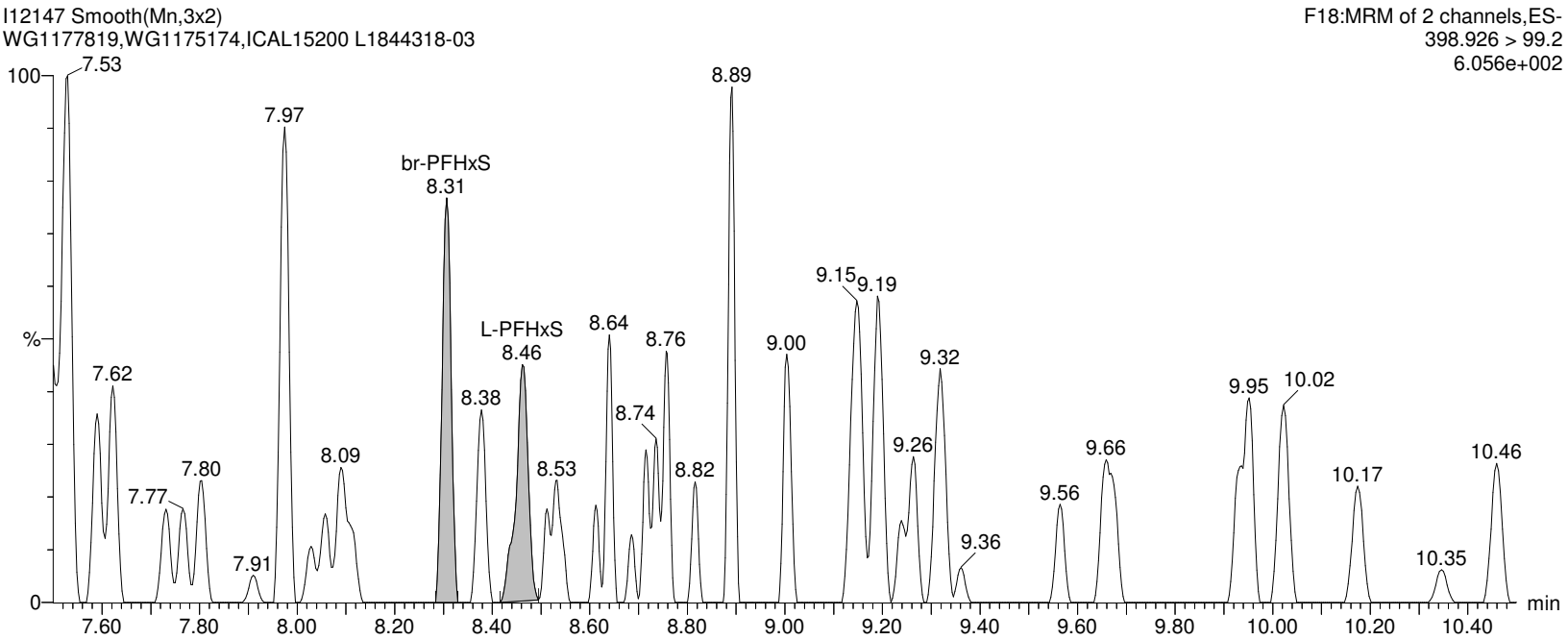

all concentration units in (ng/mL)

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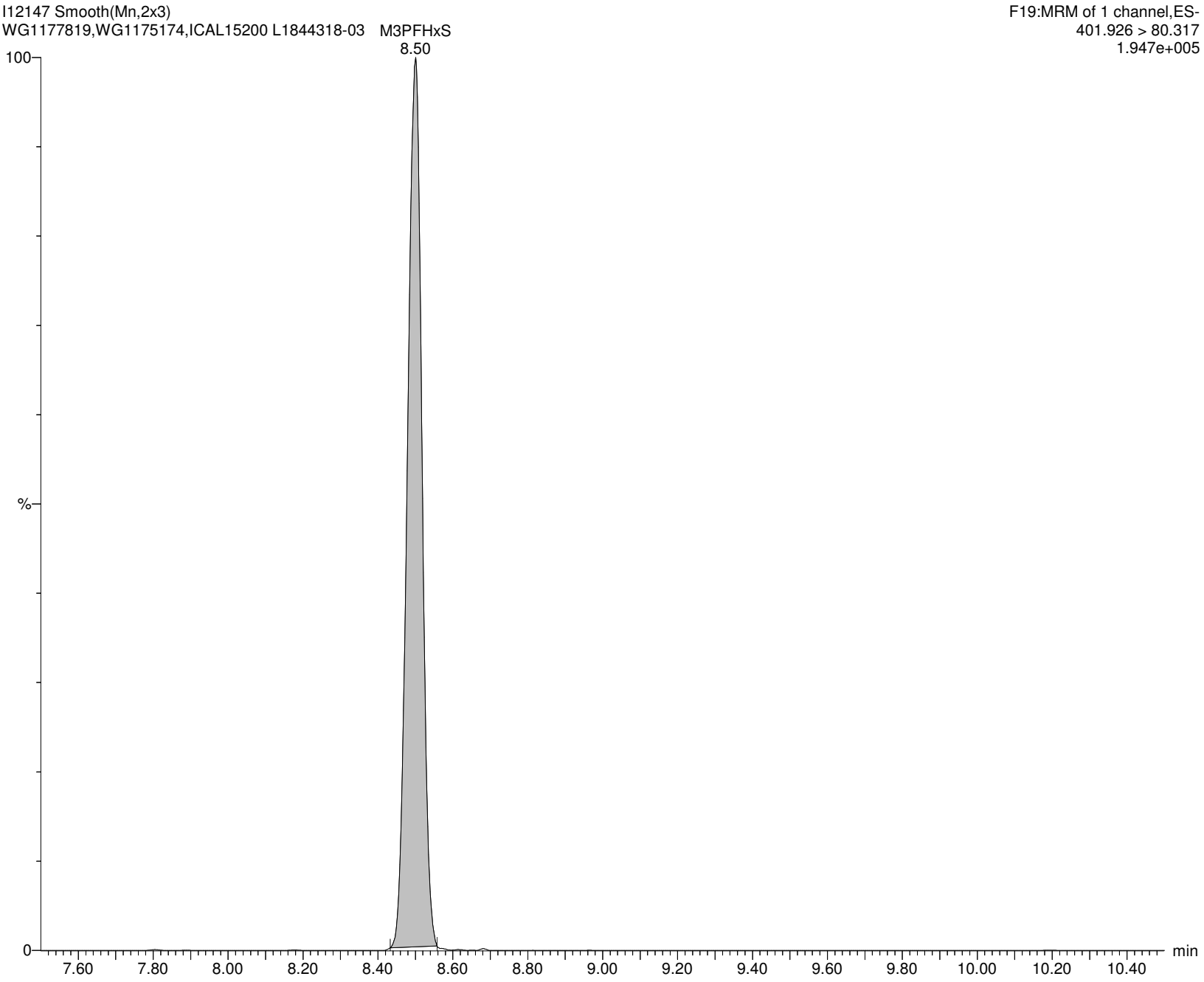

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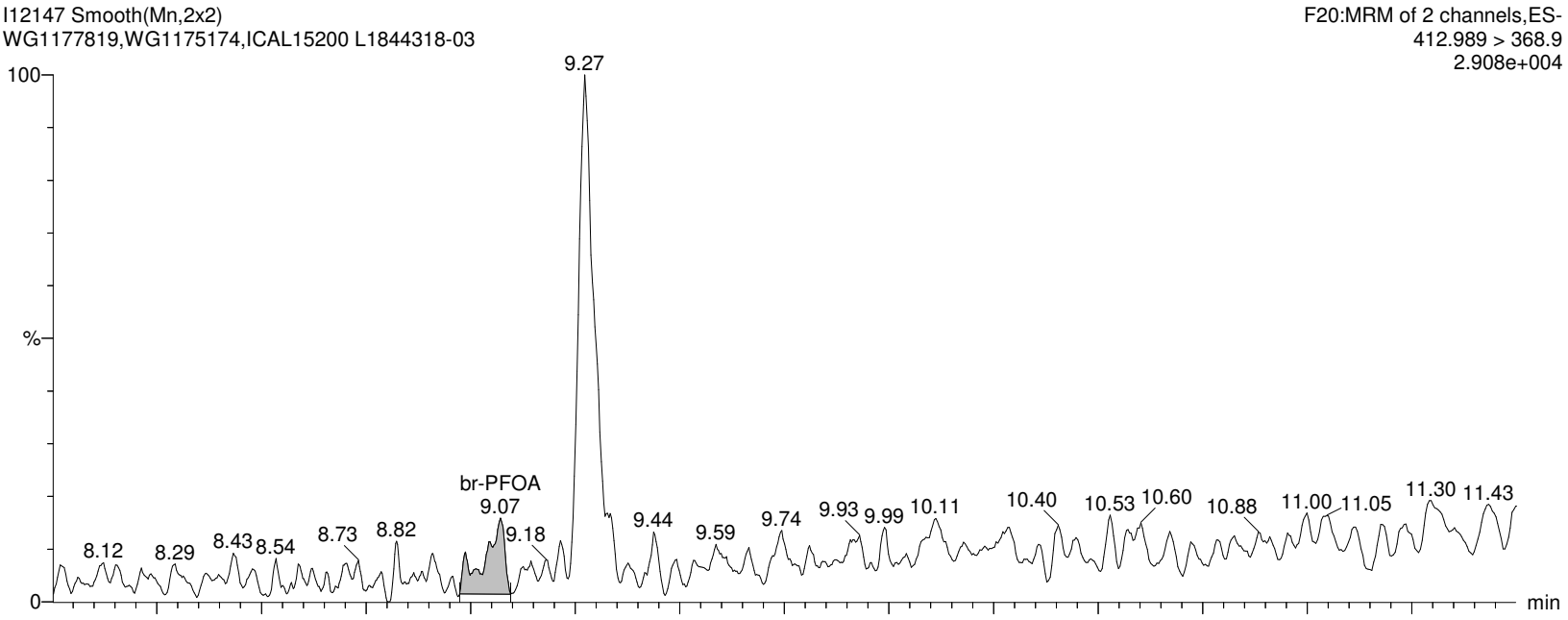

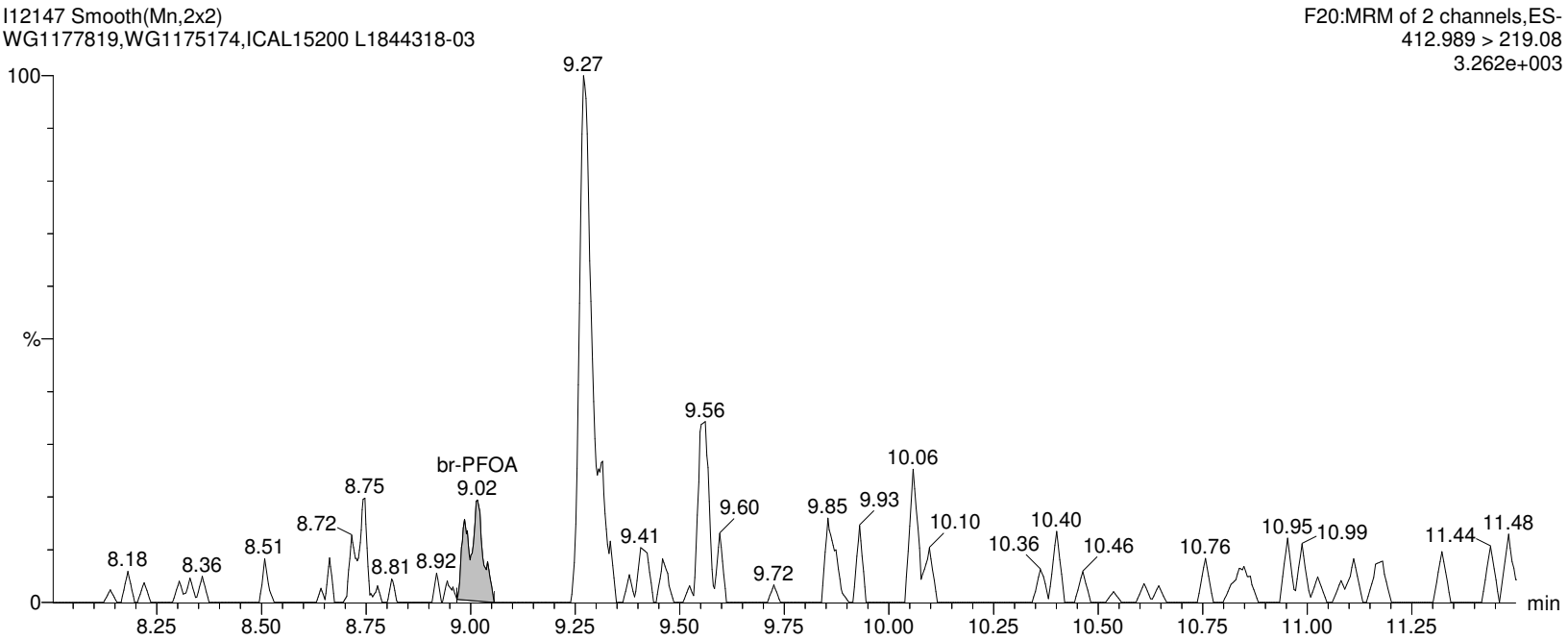

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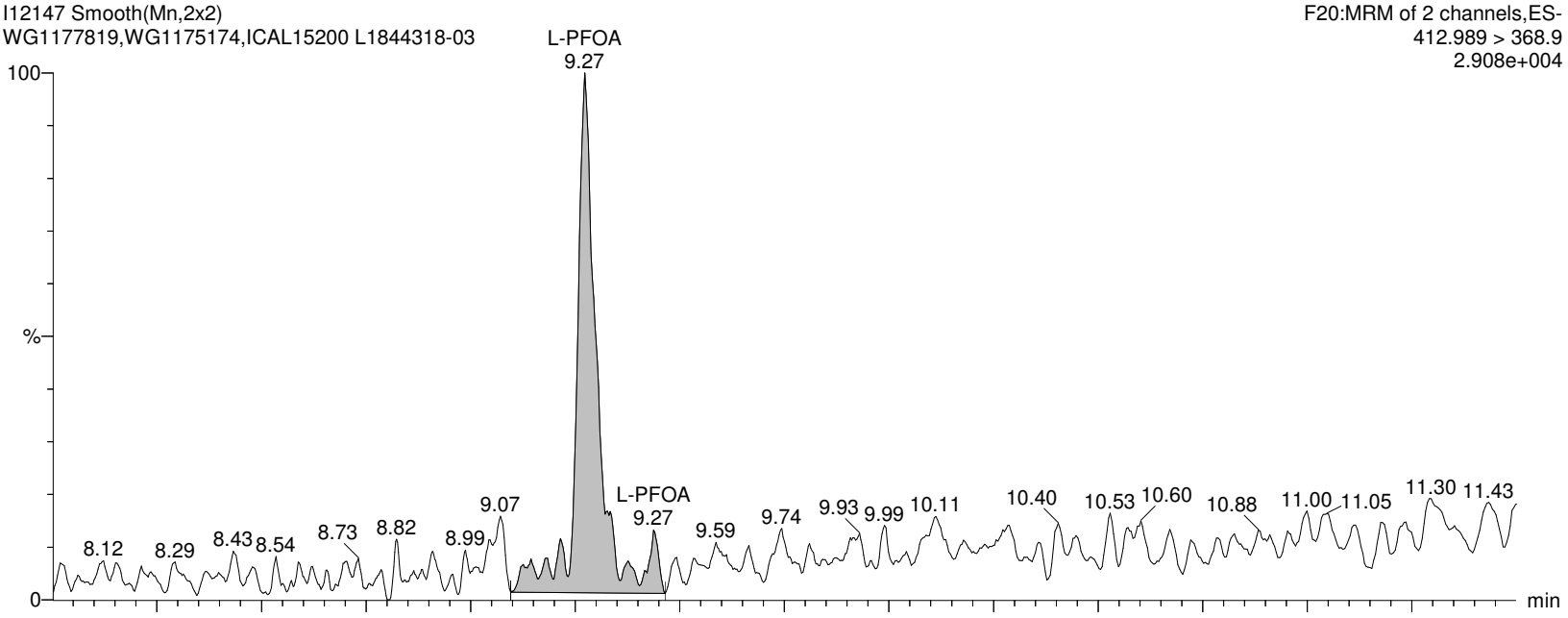
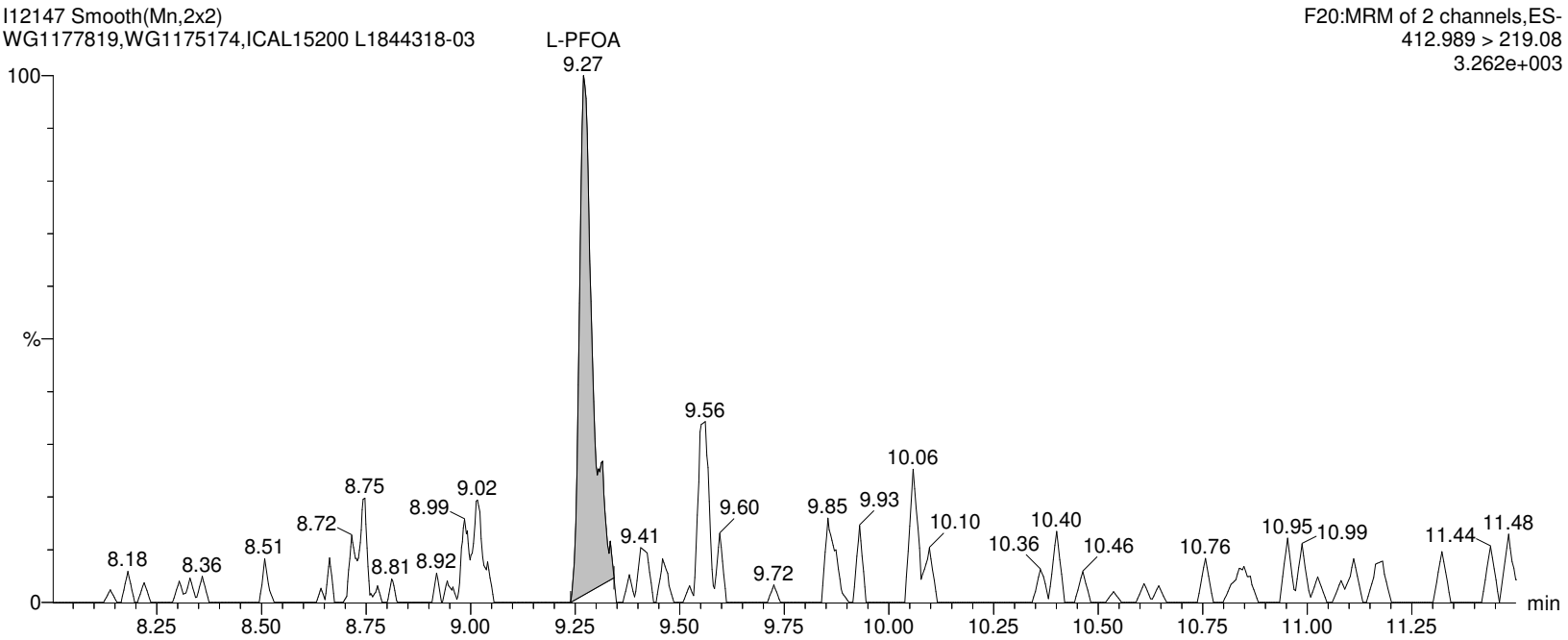
L-PFOA





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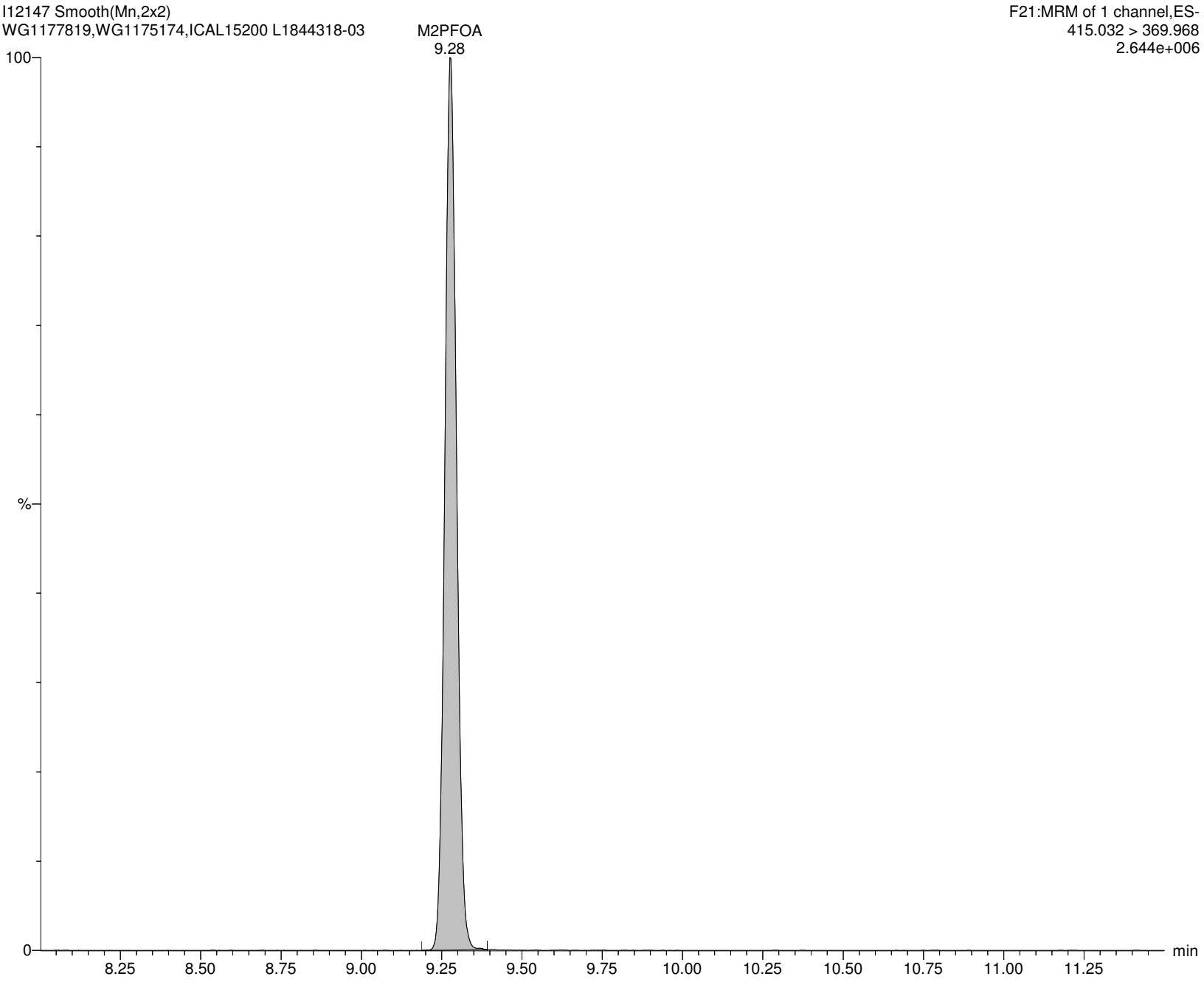

all concentration units in (ng/mL)

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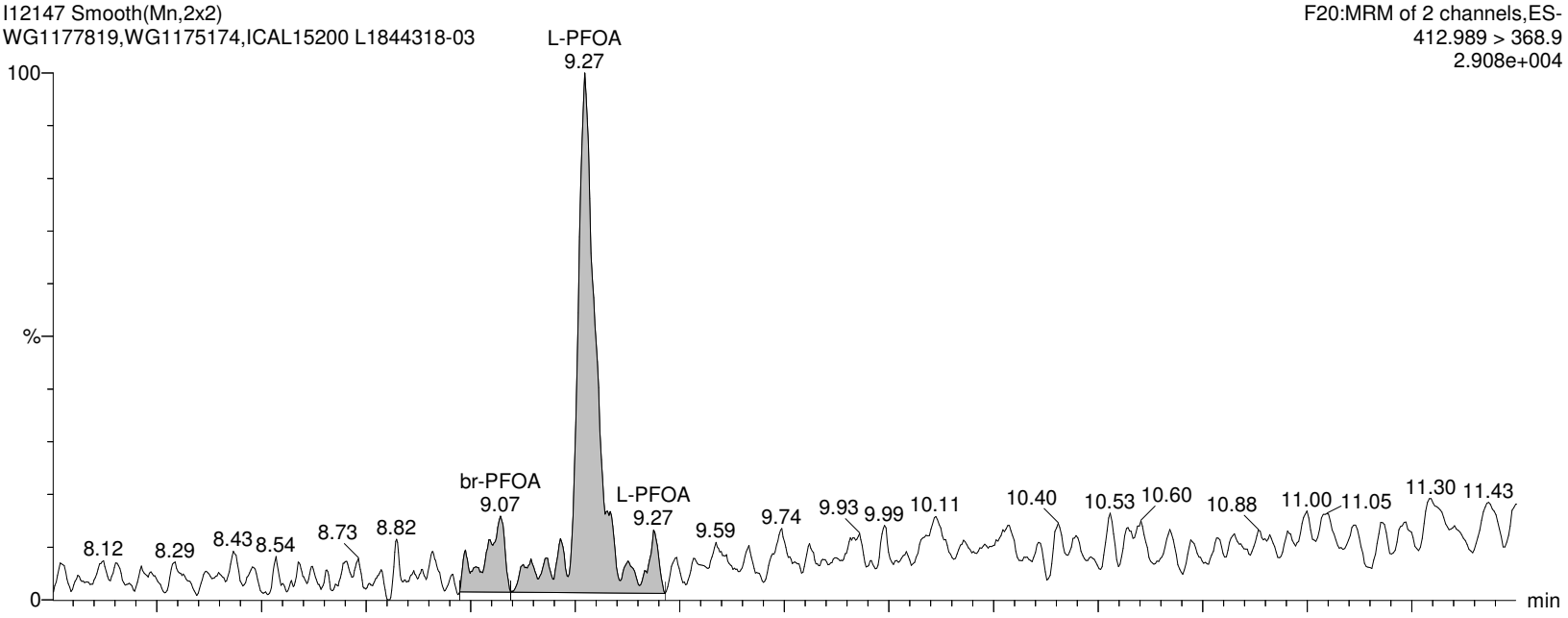

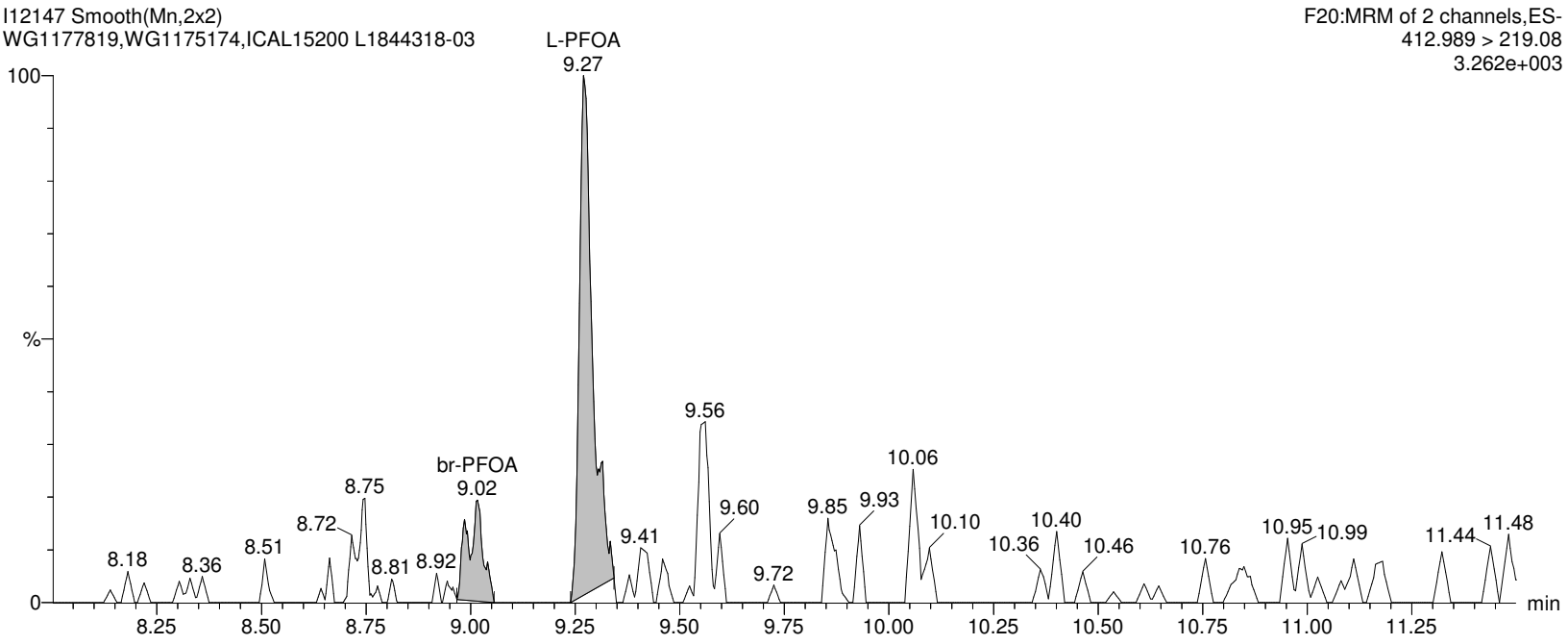

all concentration units in (ng/mL)

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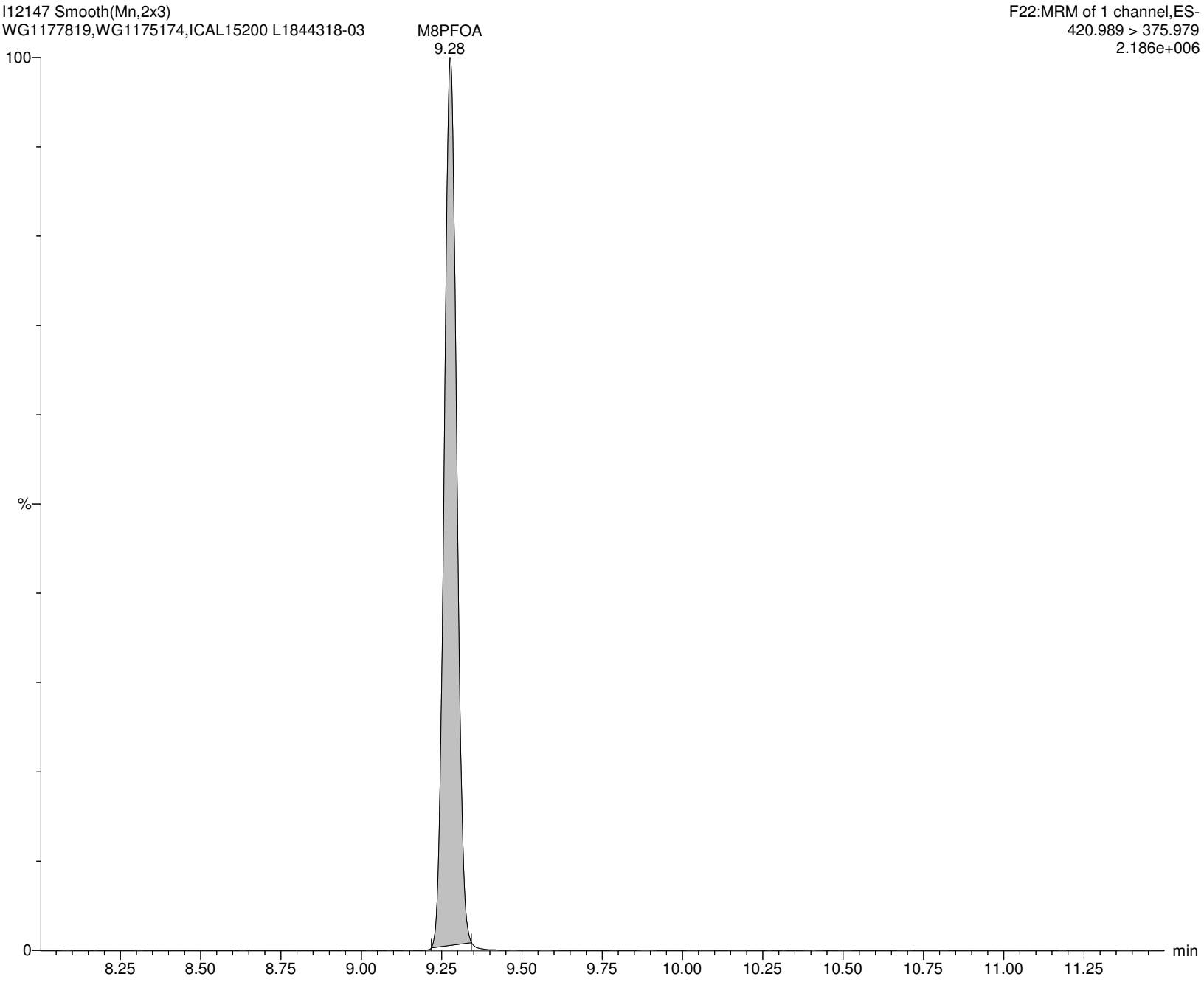

all concentration units in (ng/mL)

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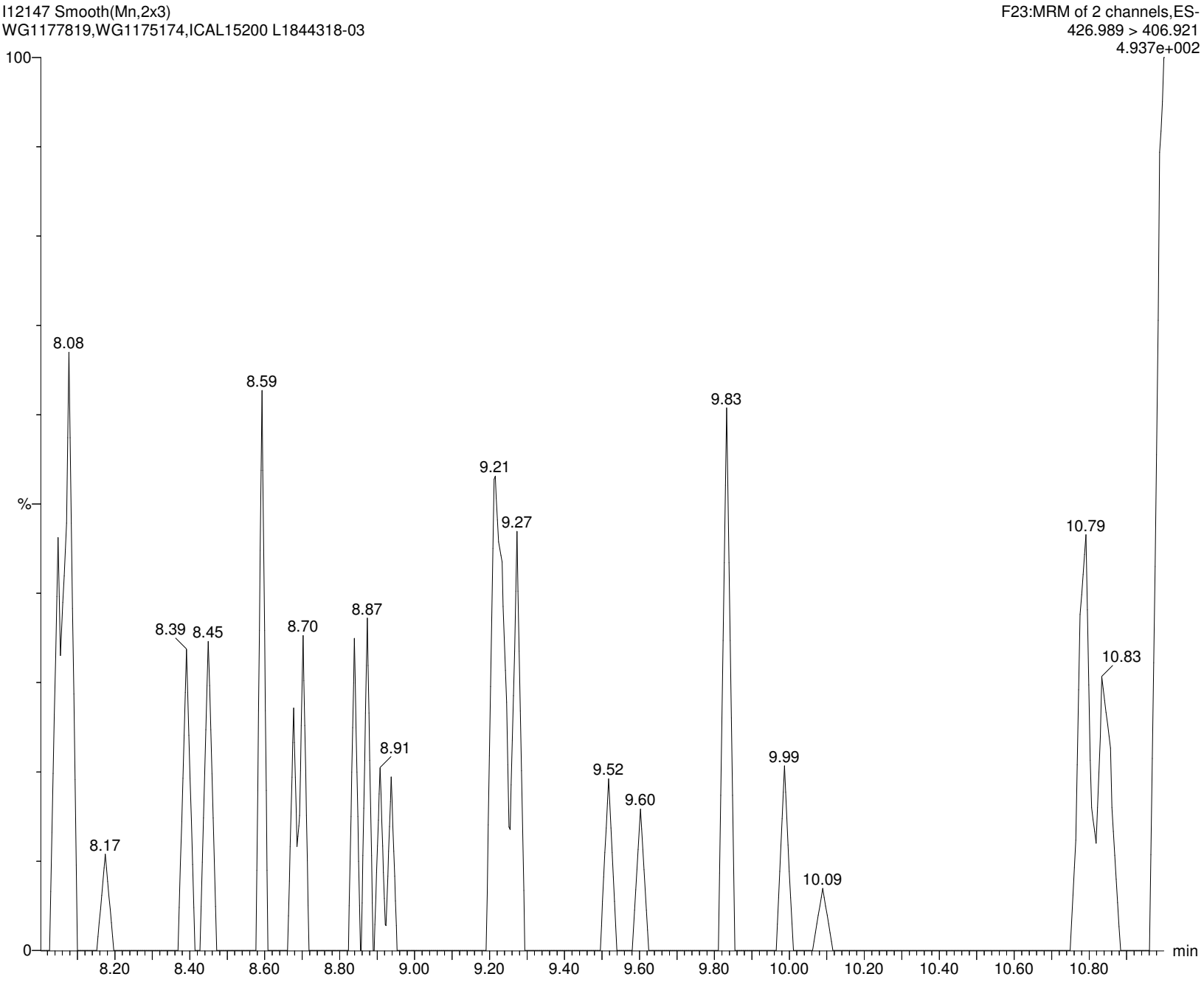

all concentration units in (ng/mL)

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Vial: 1:B,8
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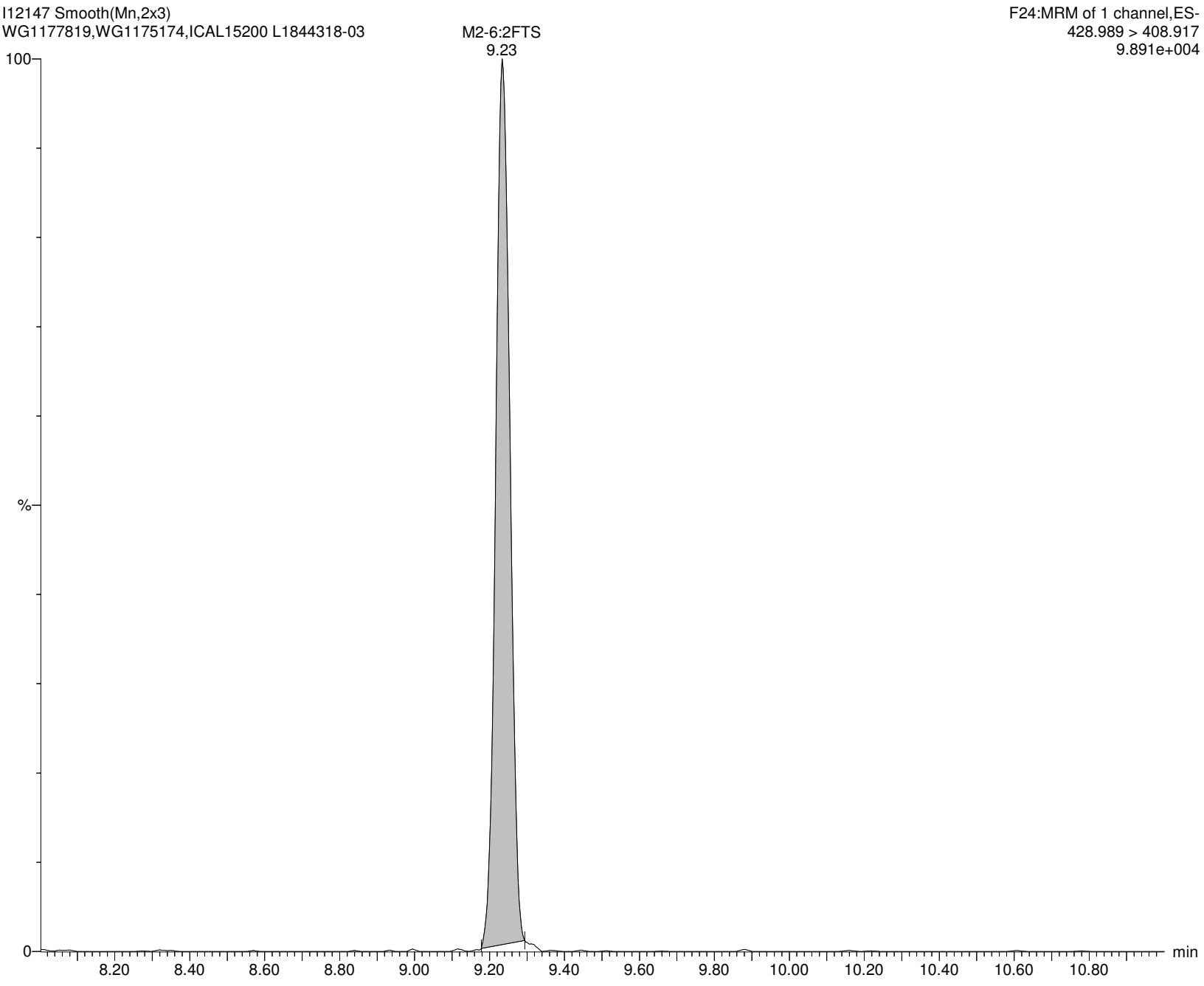

all concentration units in (ng/mL)

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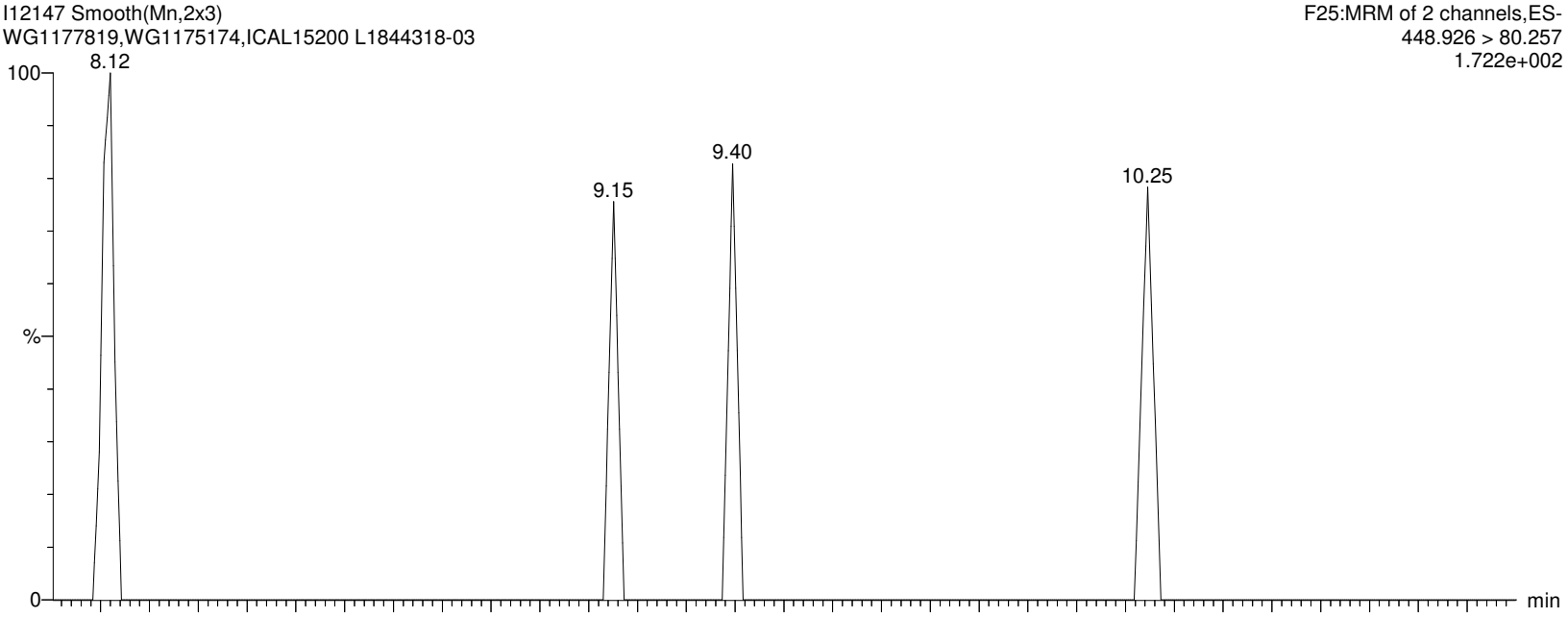

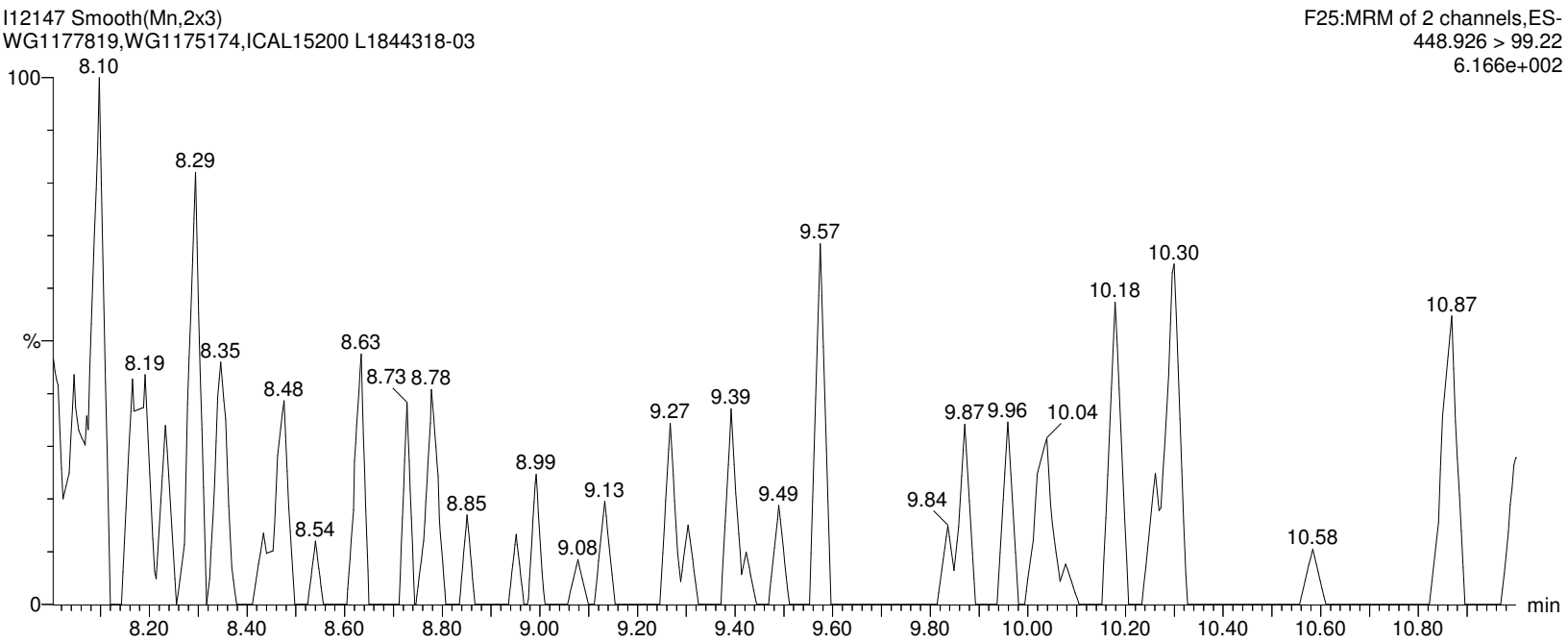

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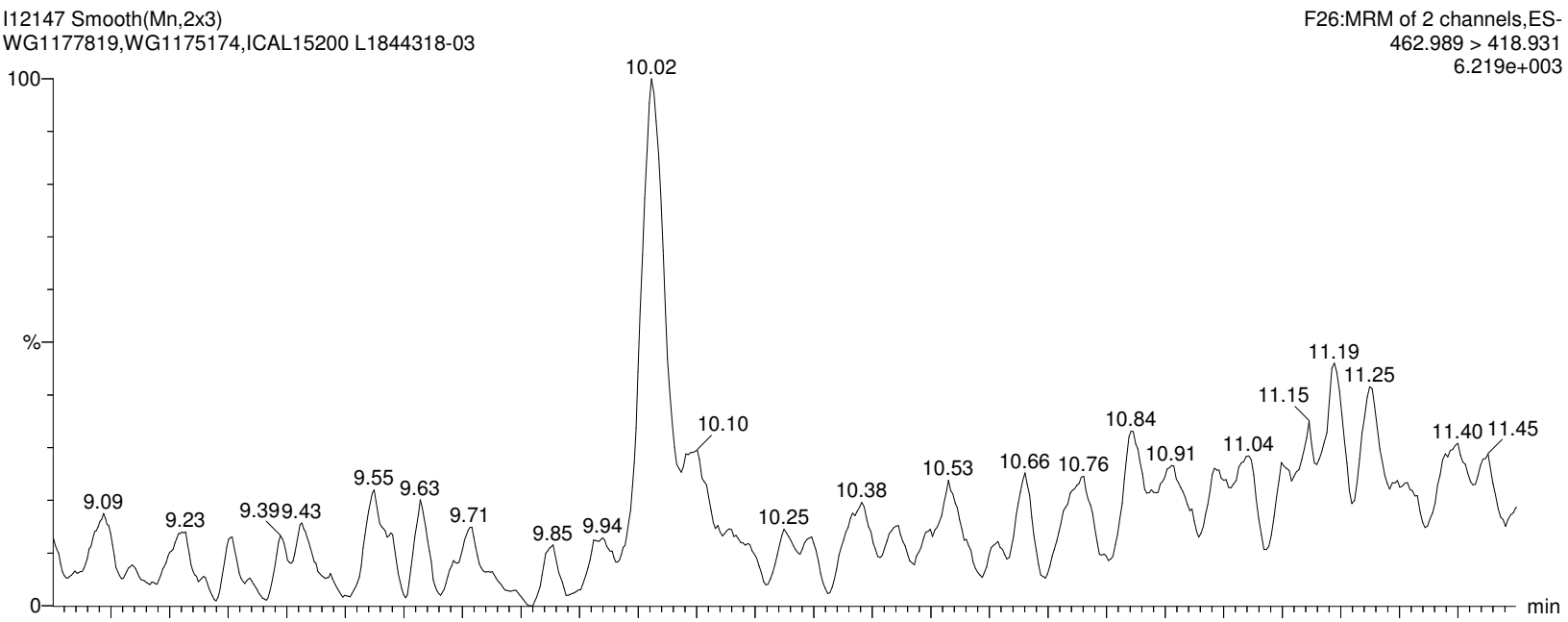

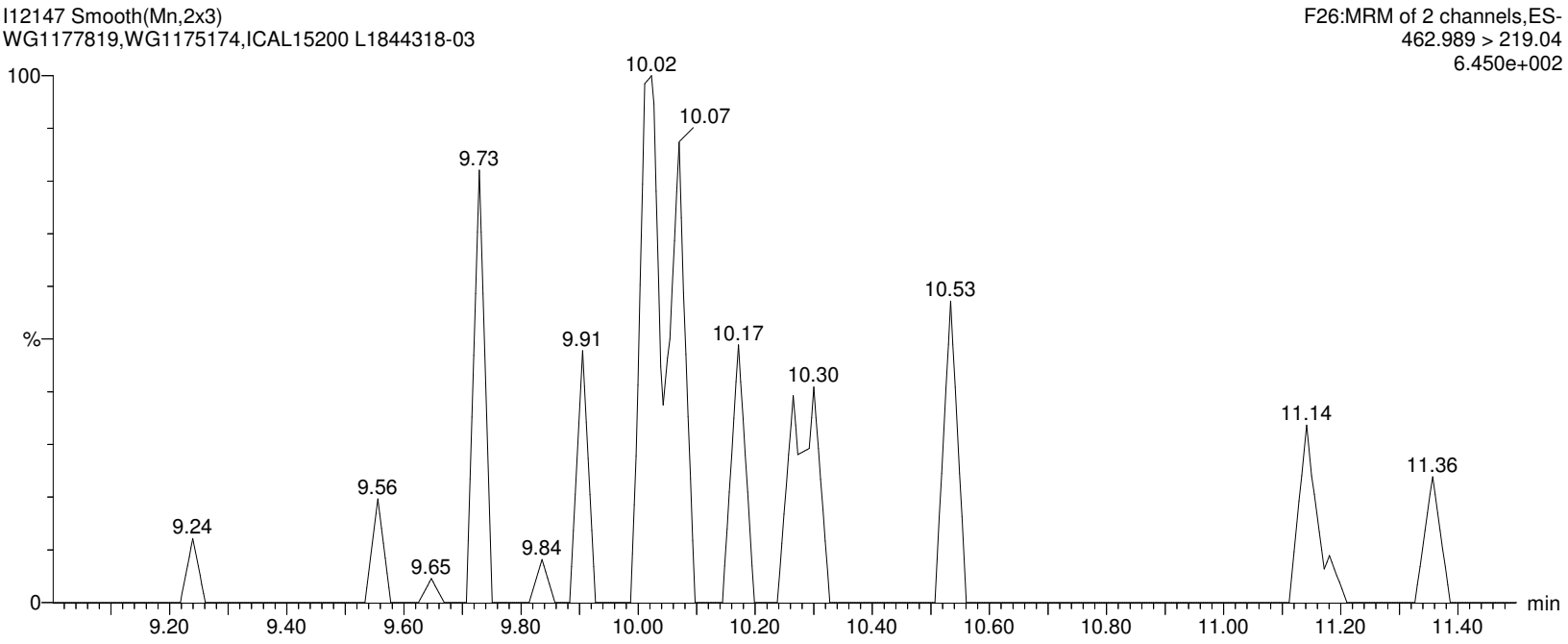

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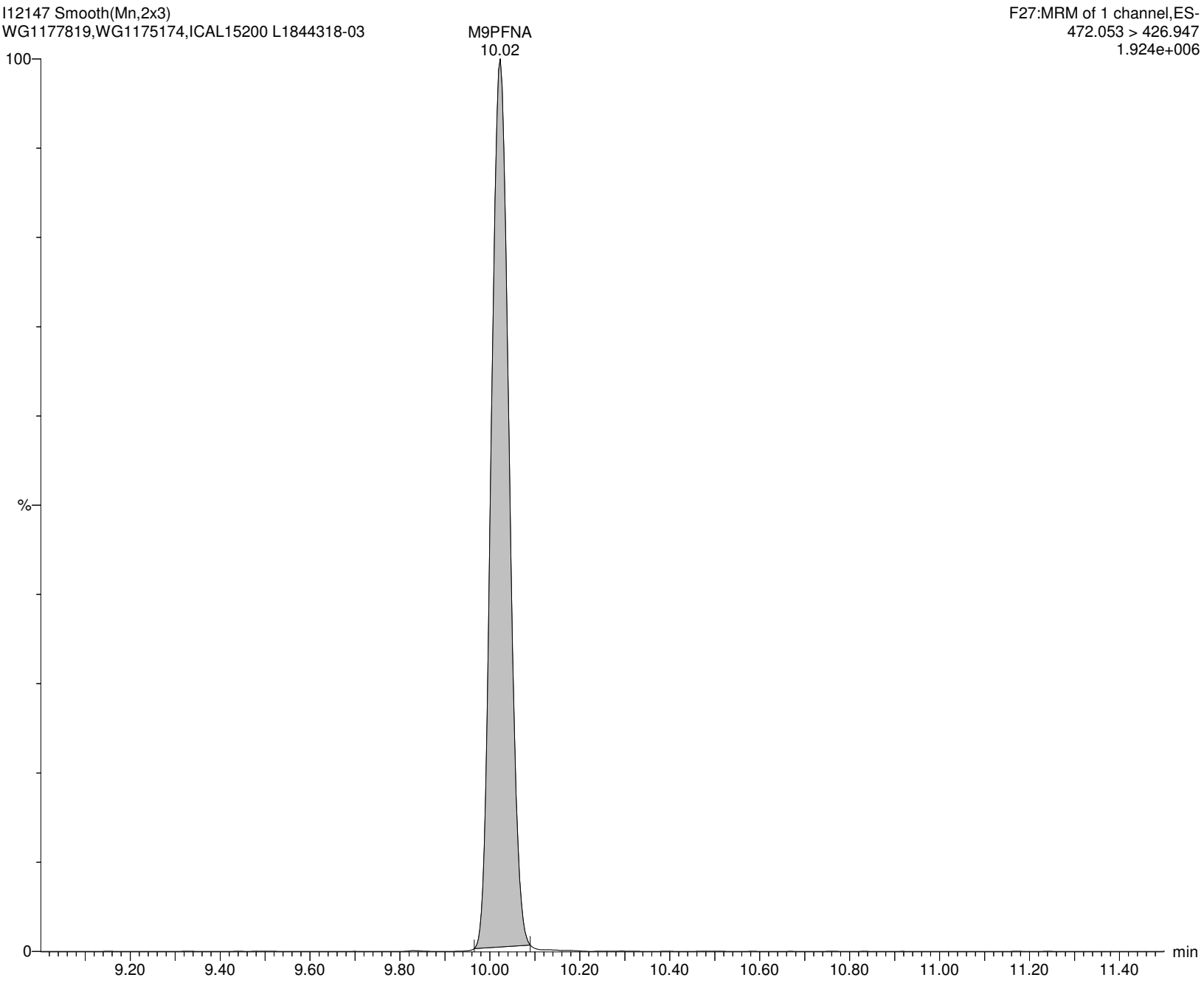

all concentration units in (ng/mL)

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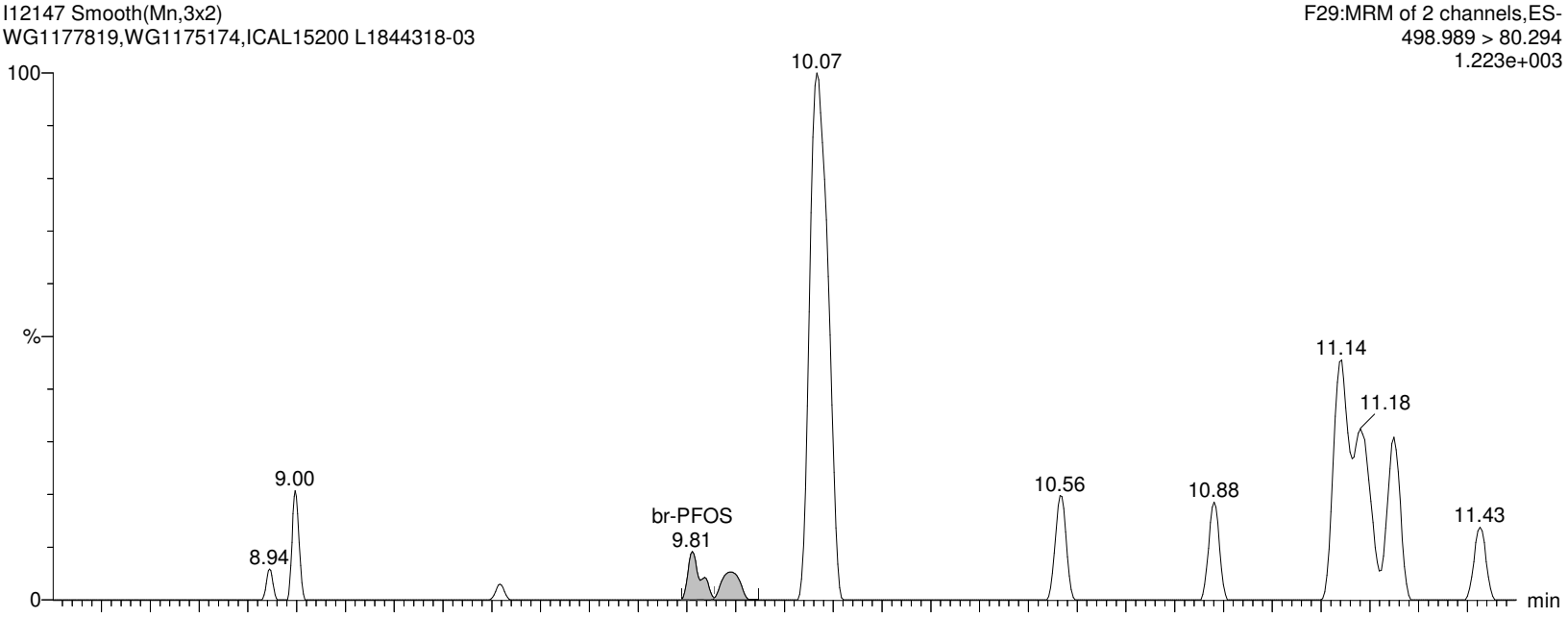

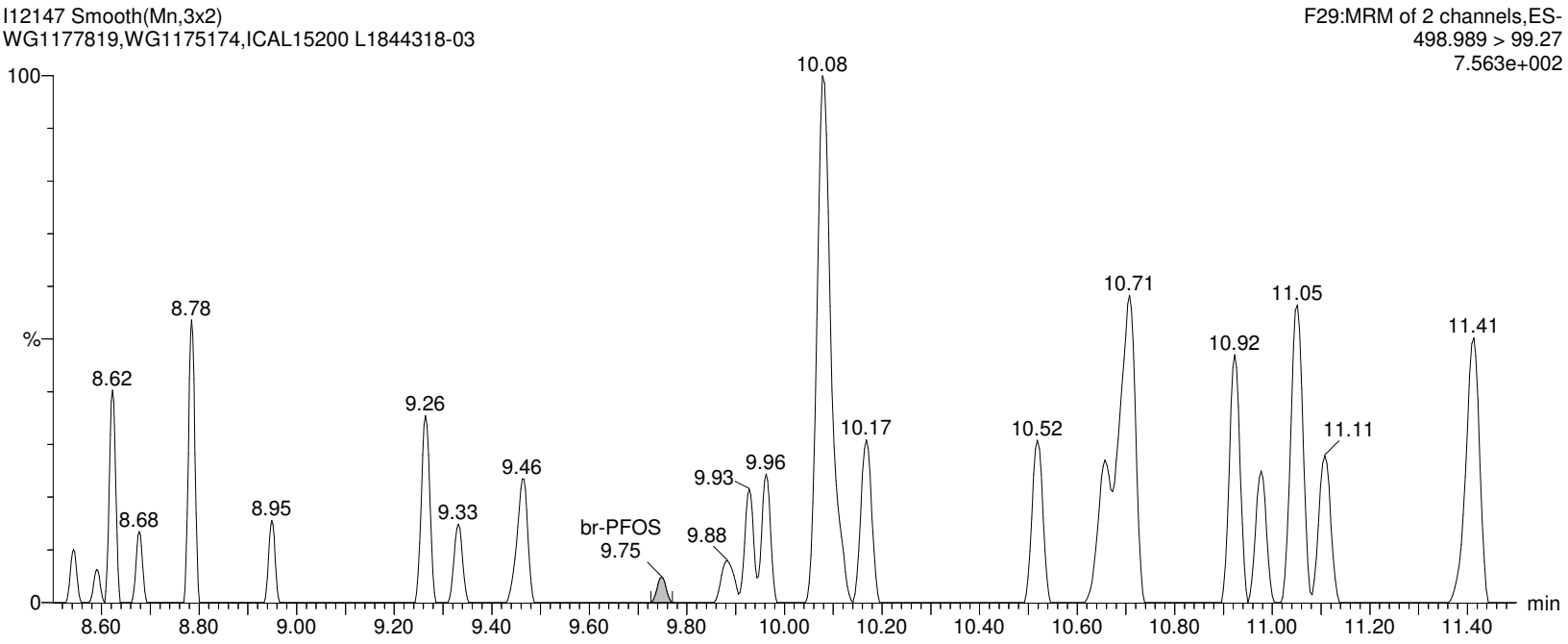

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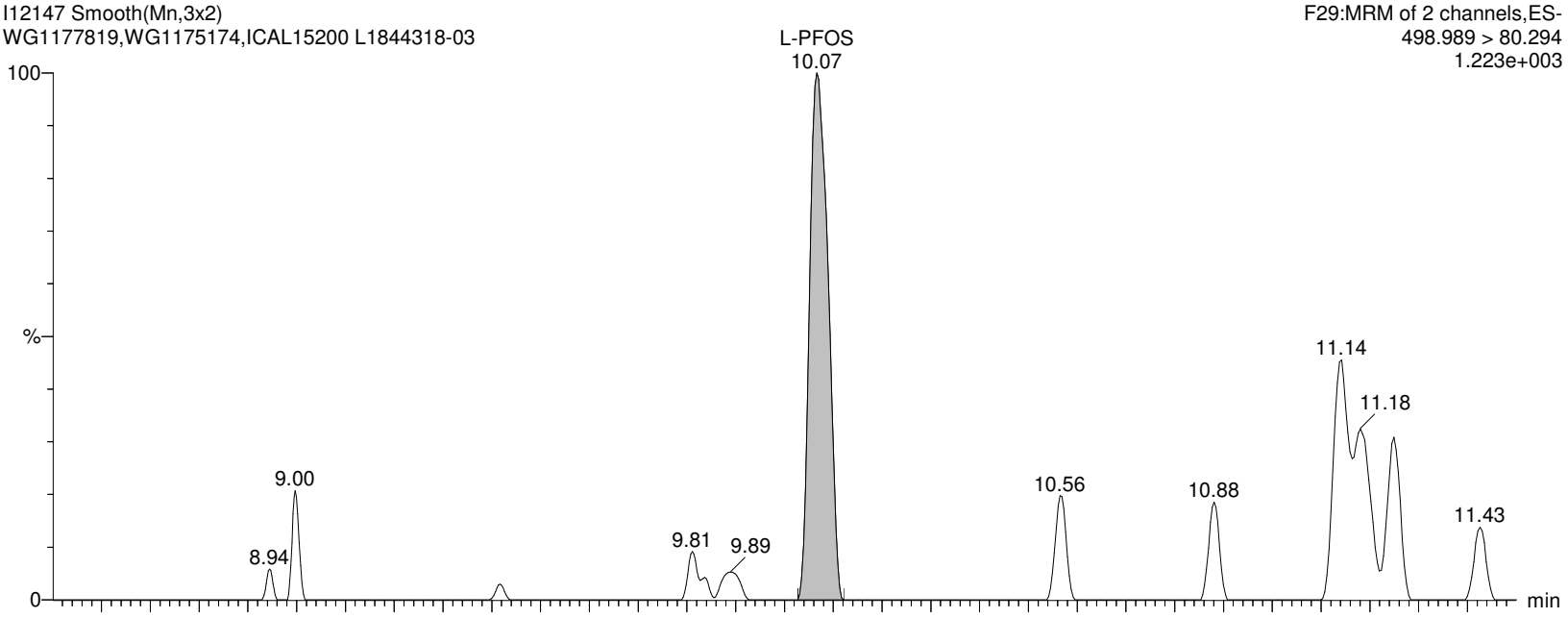
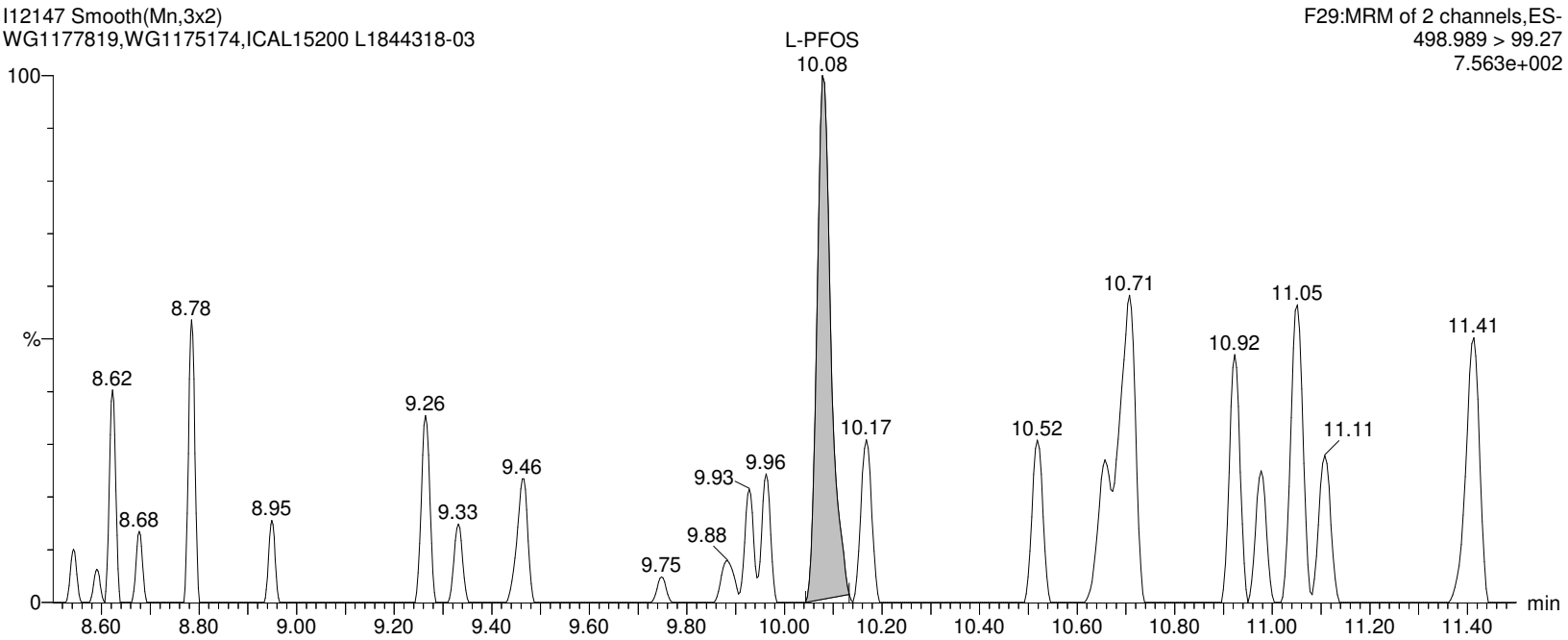
L-PFOS





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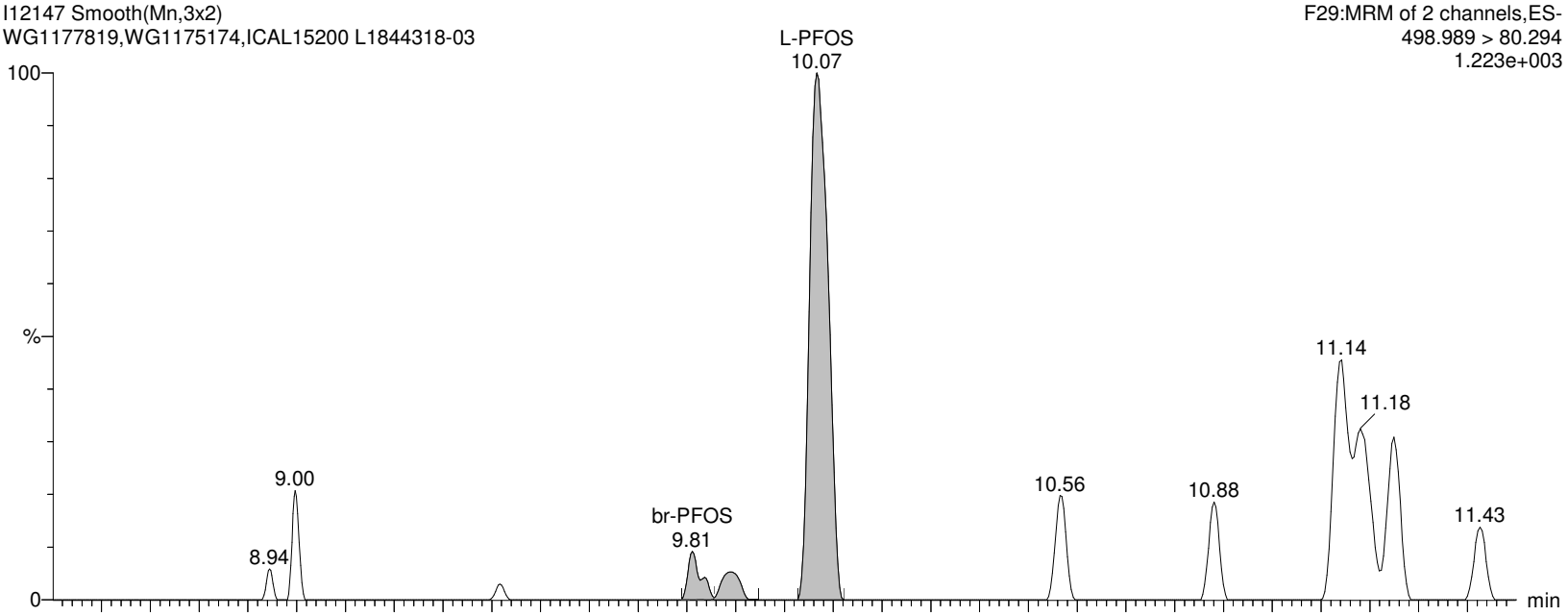

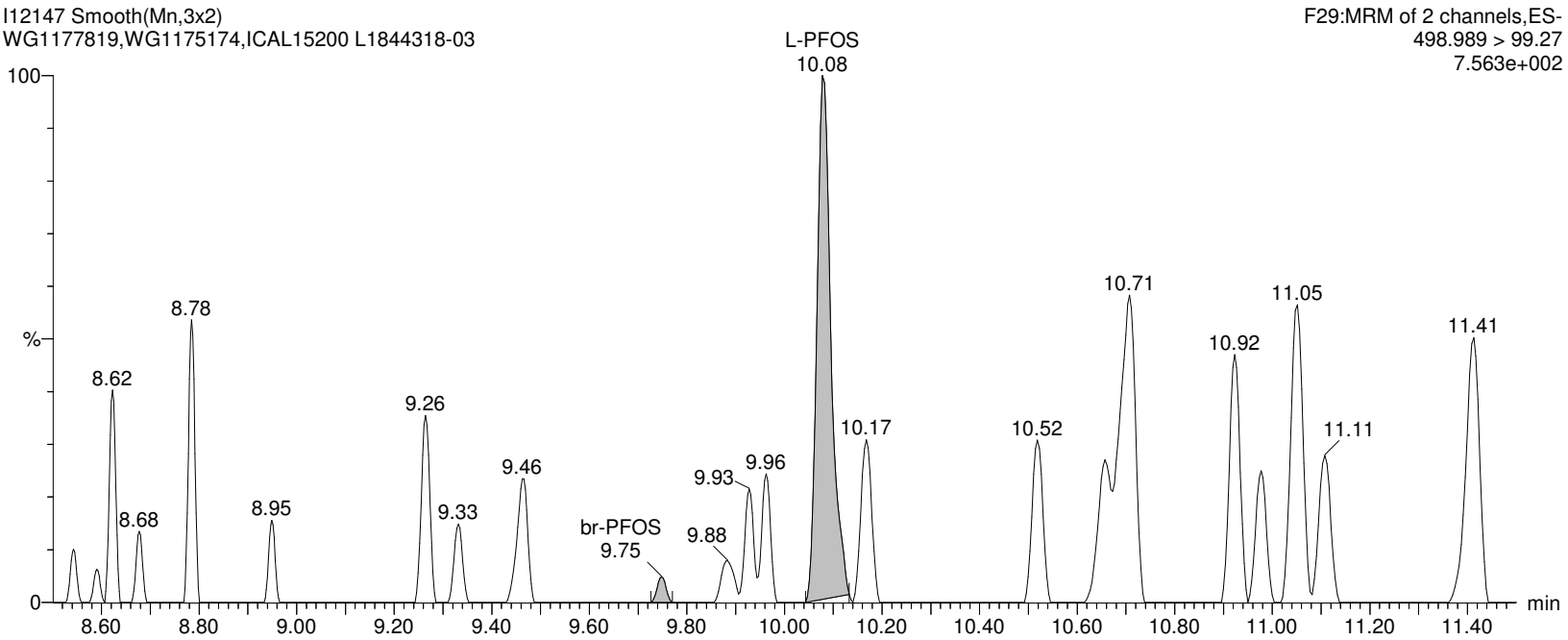

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Printed: Monday, November 12, 2018 13:06:44 Eastern Standard Time

Name: I12147
ID: L1844318-03
Date: 10-Nov-2018
Time: 05:29:02
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
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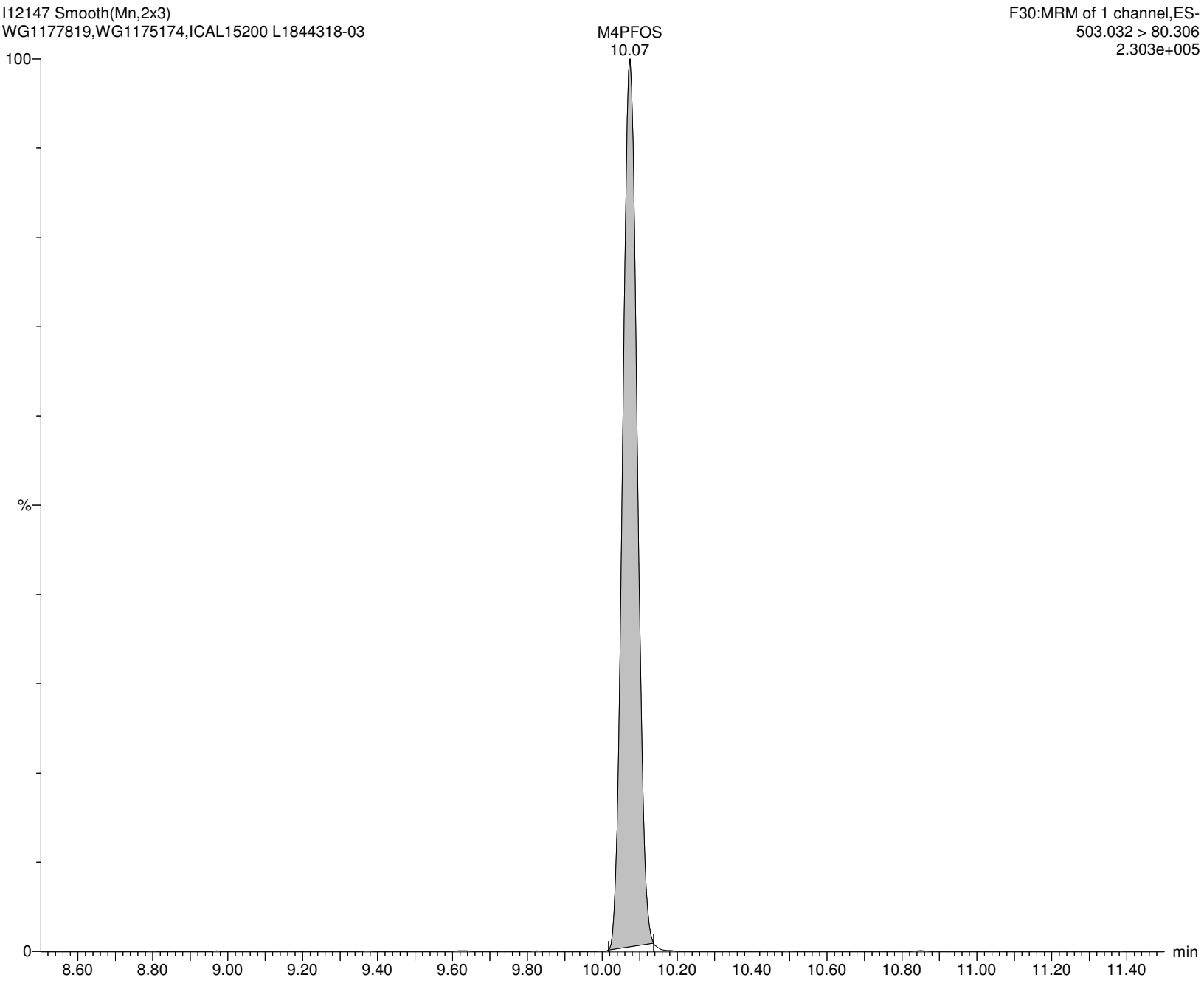

all concentration units in (ng/mL)

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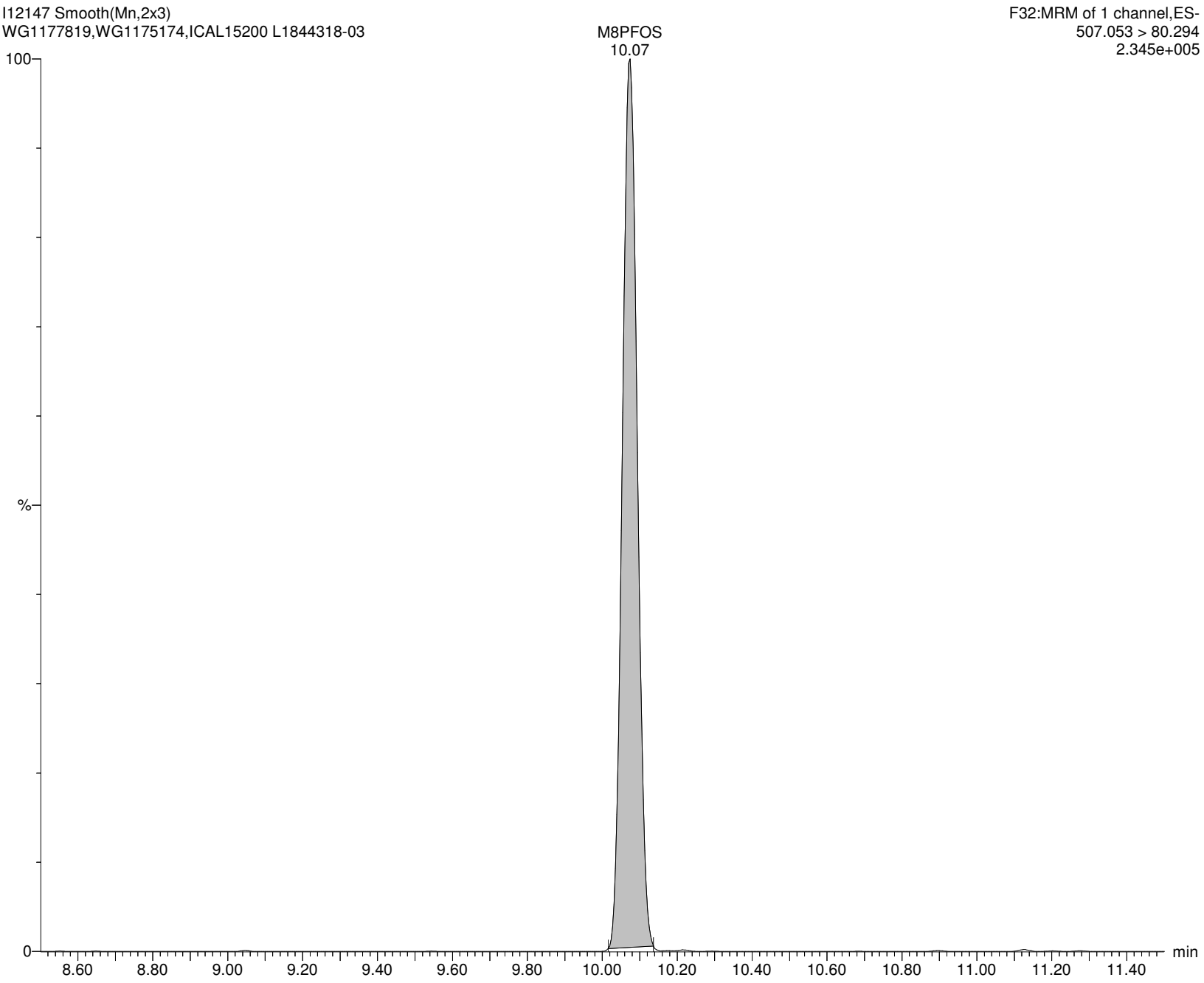

all concentration units in (ng/mL)

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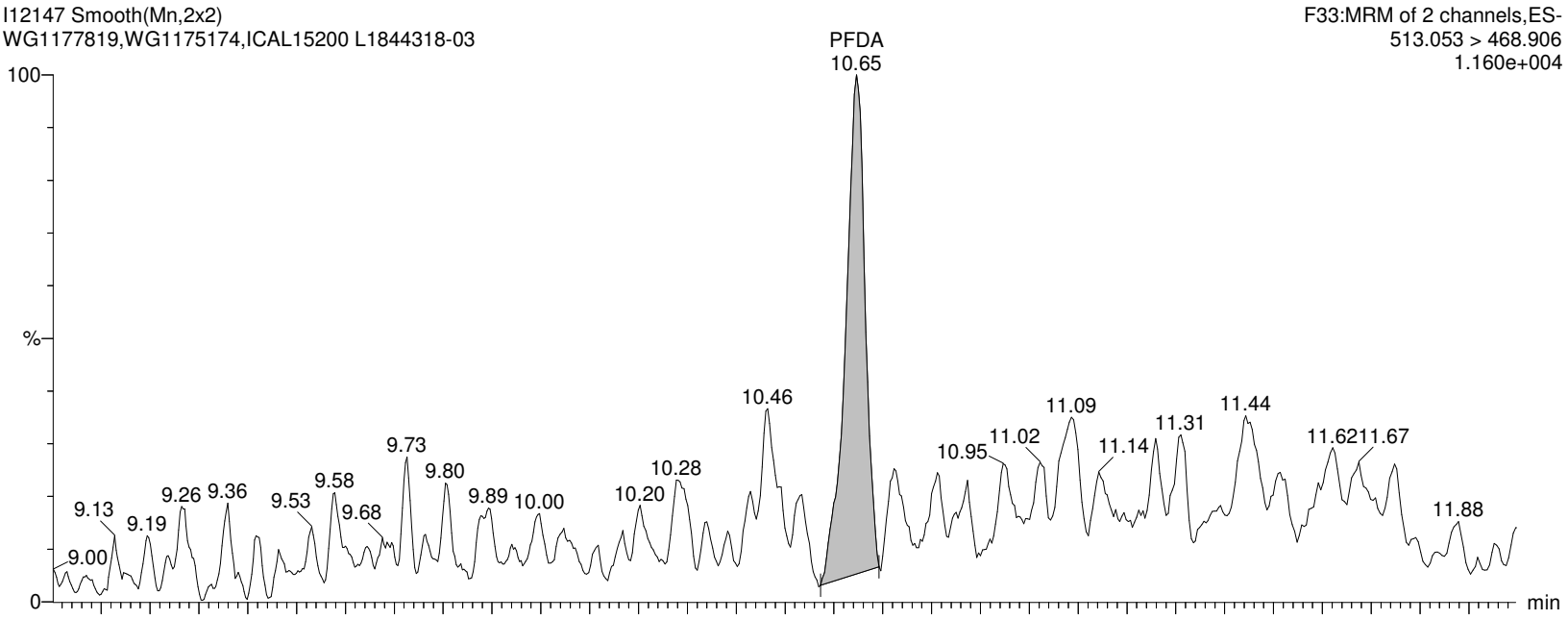

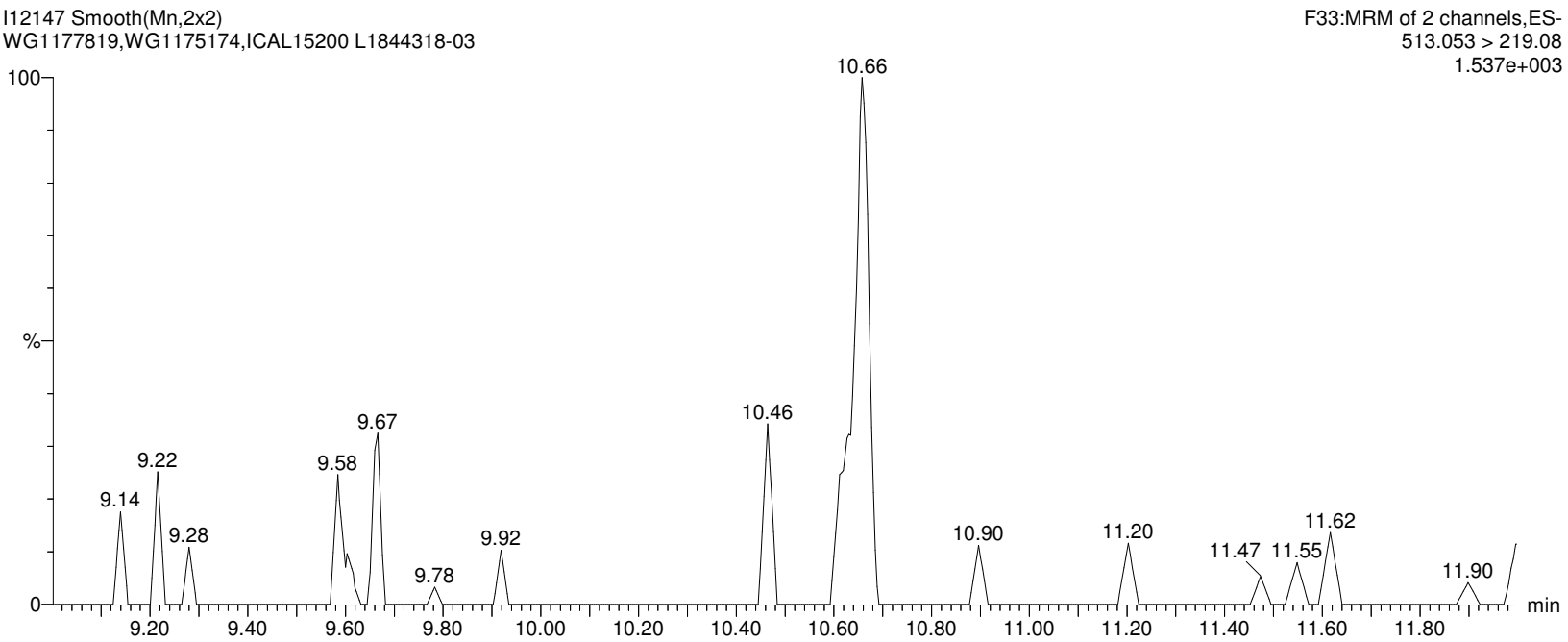

all concentration units in (ng/mL)

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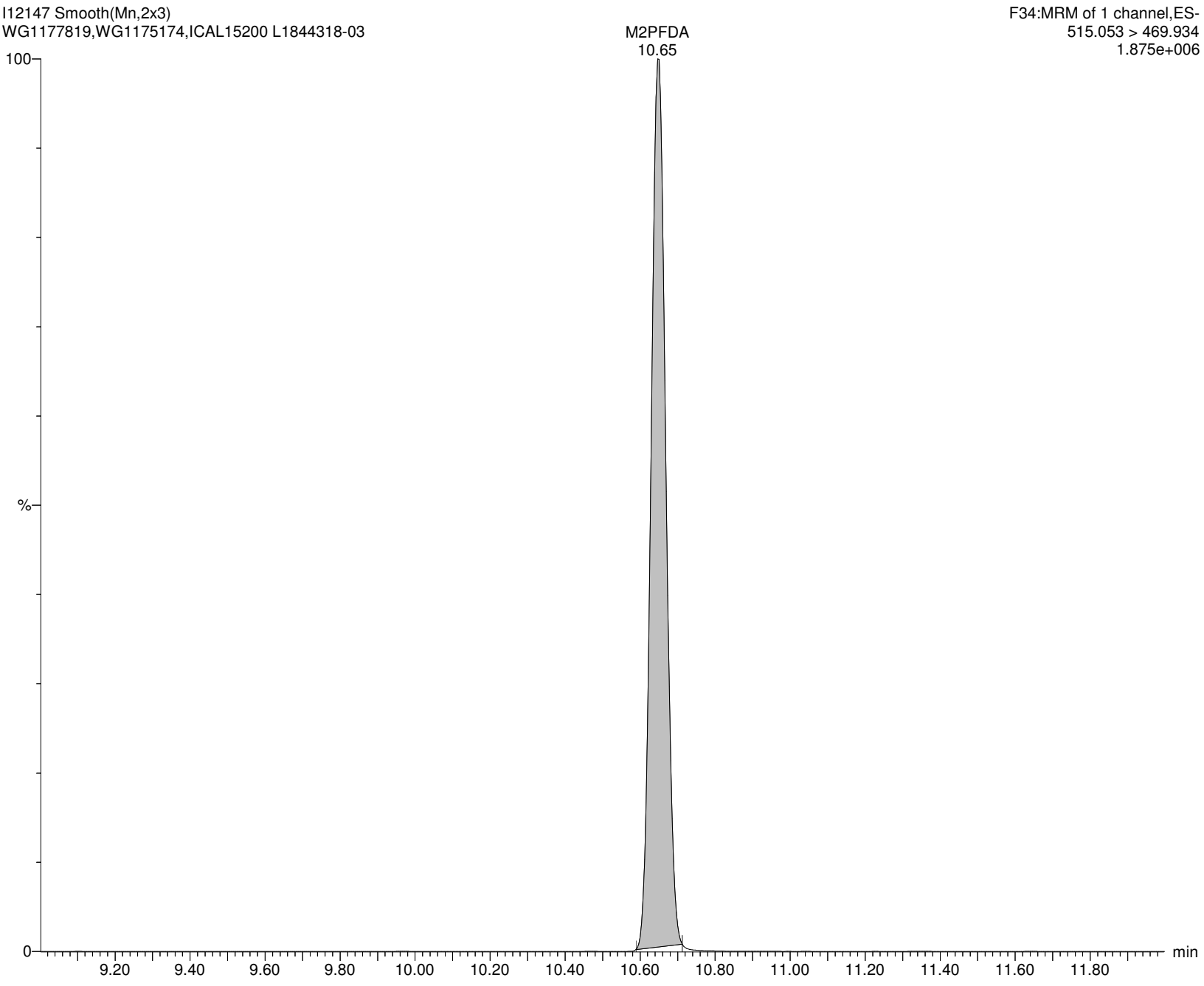

all concentration units in (ng/mL)

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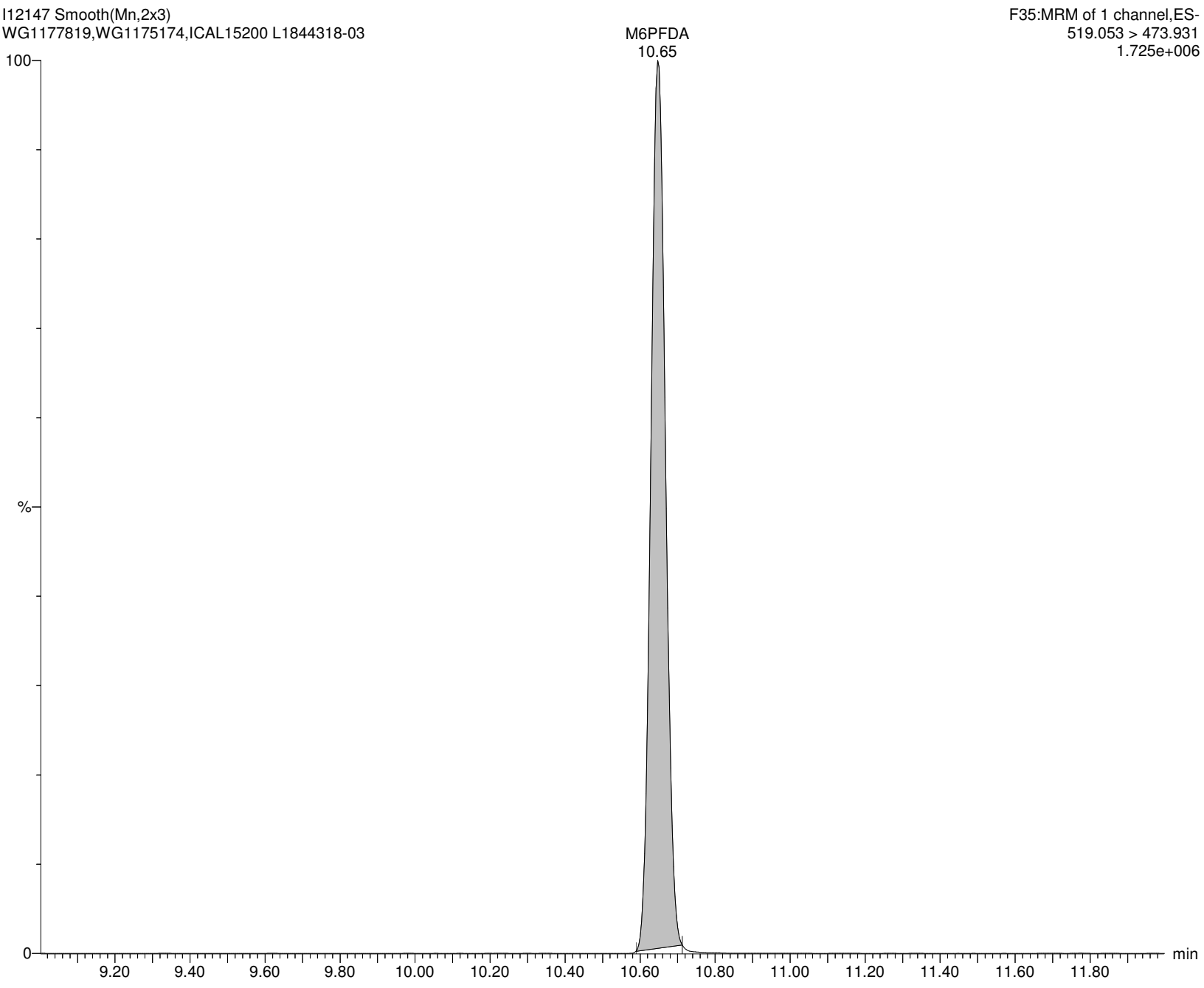

all concentration units in (ng/mL)

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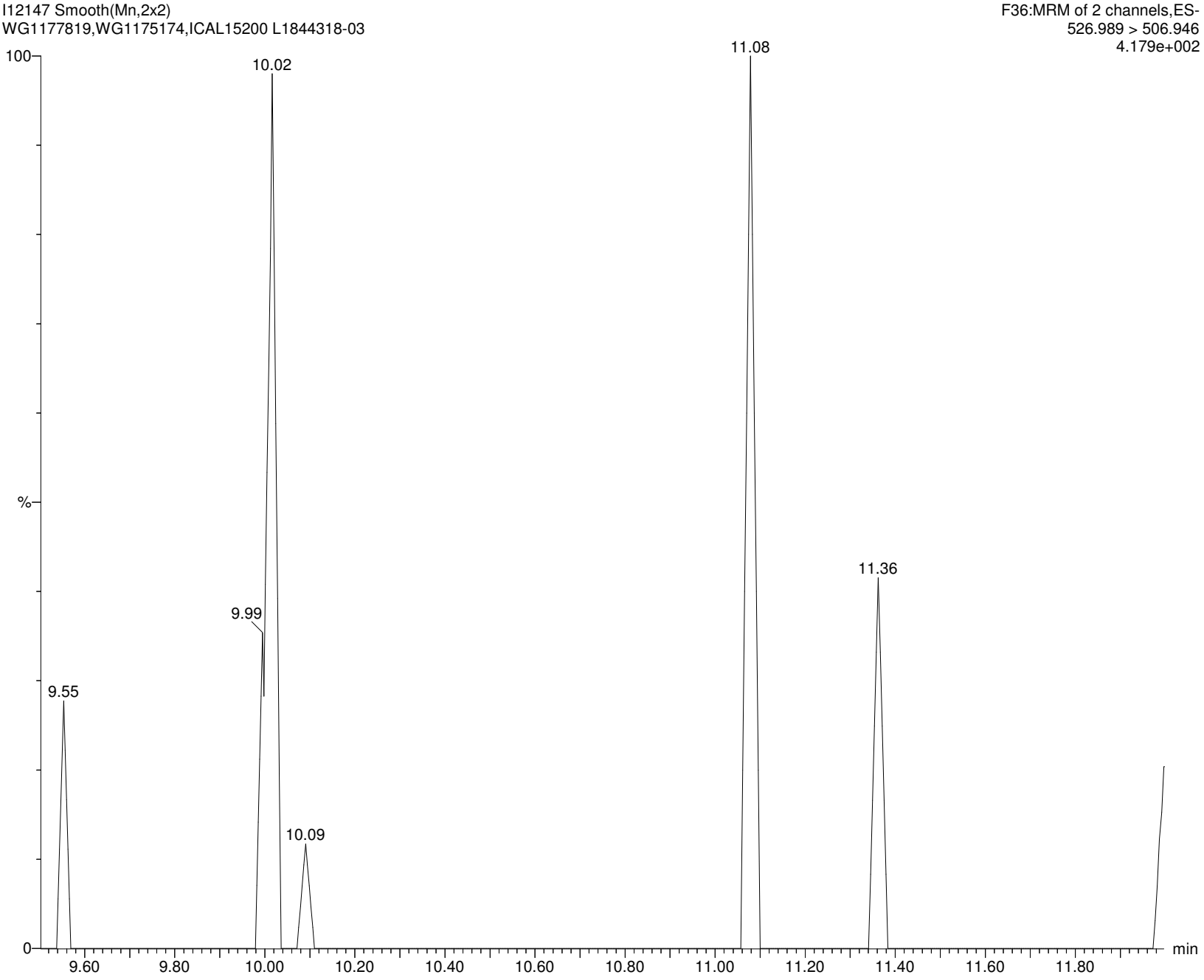

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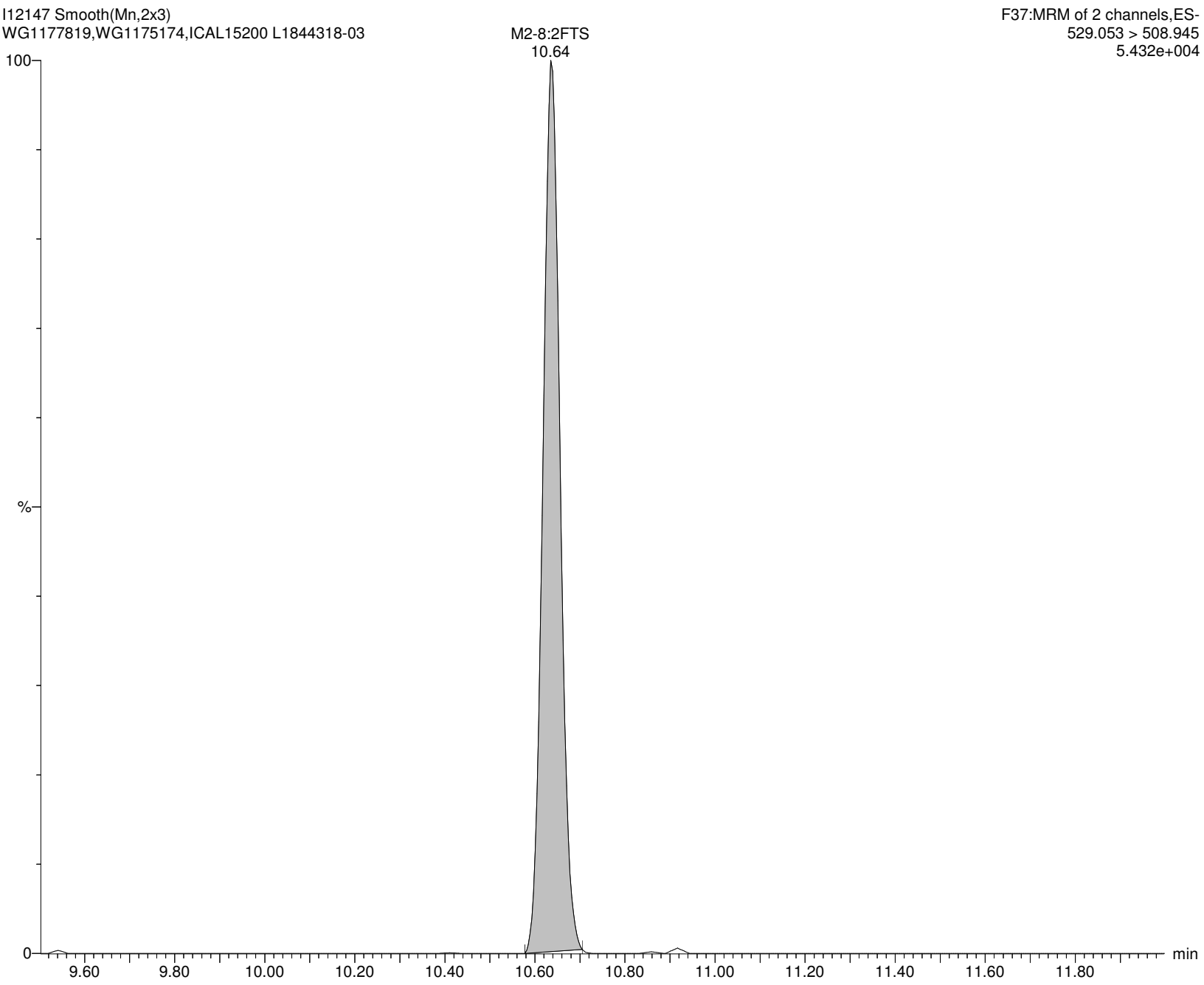

all concentration units in (ng/mL)

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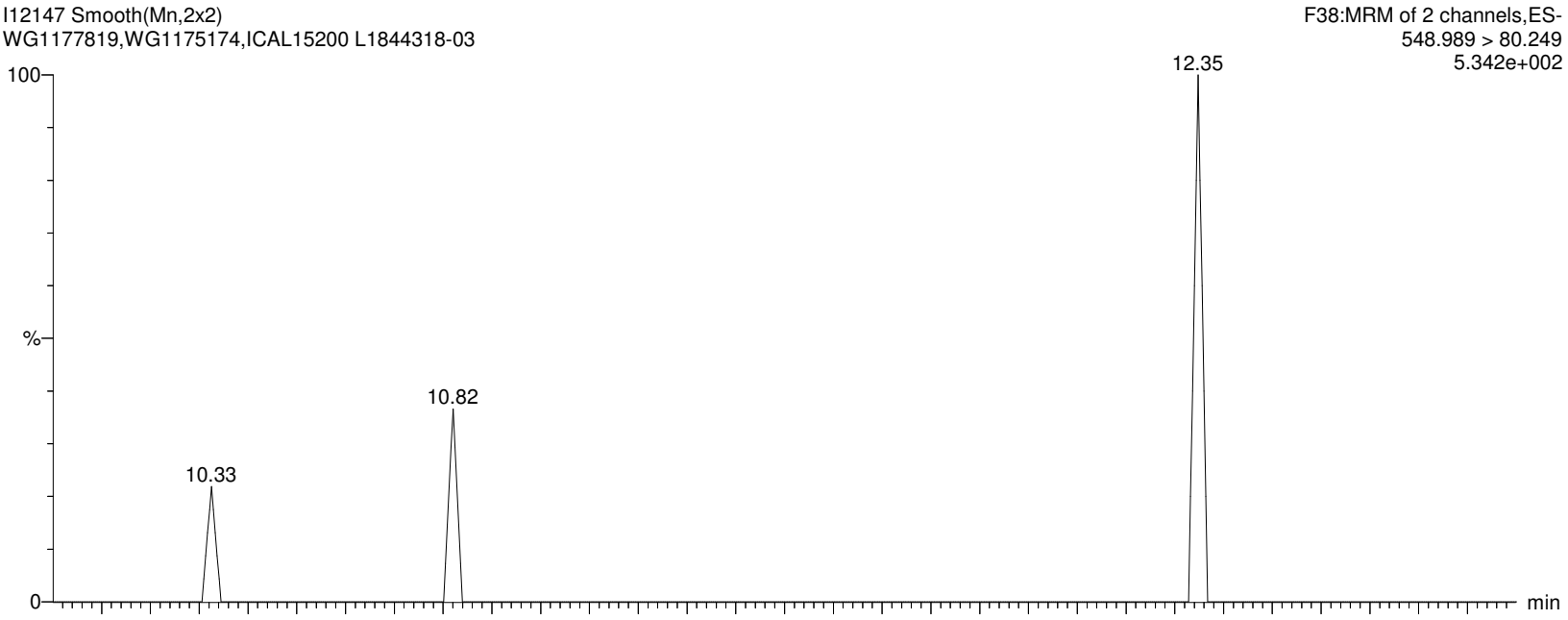

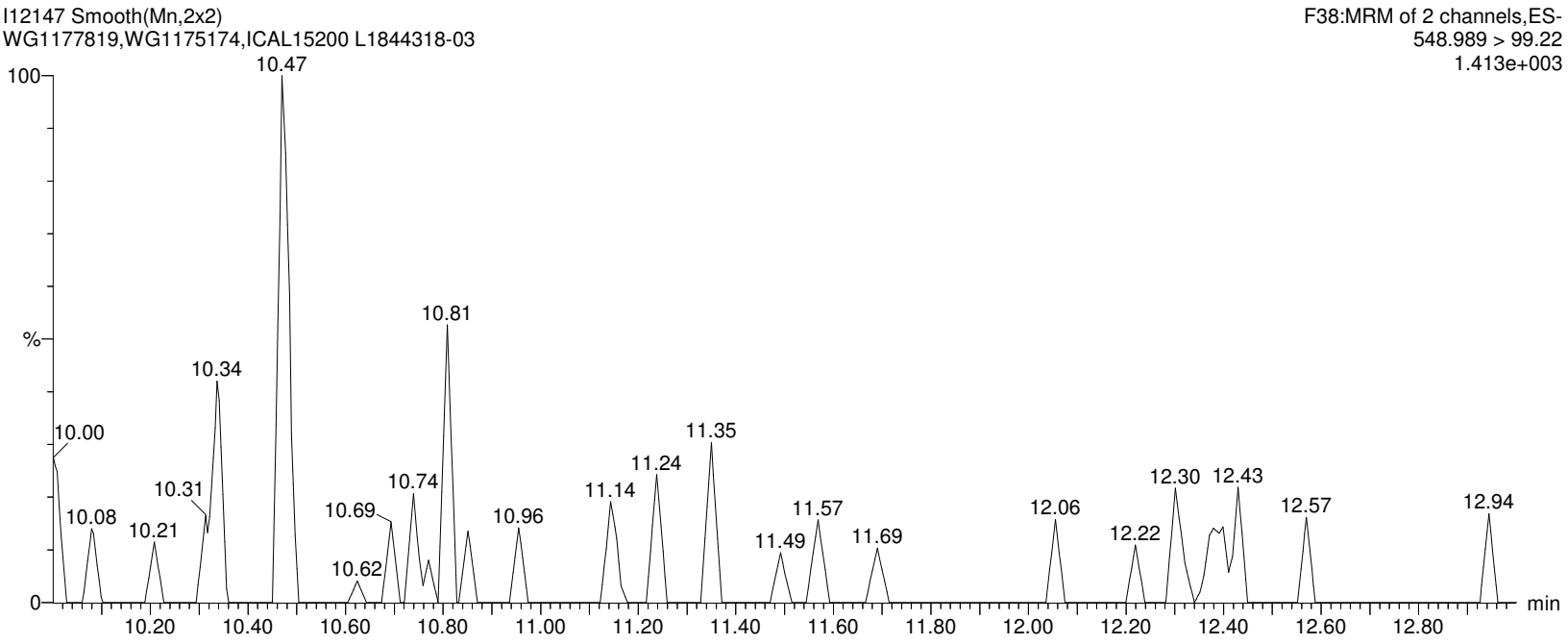

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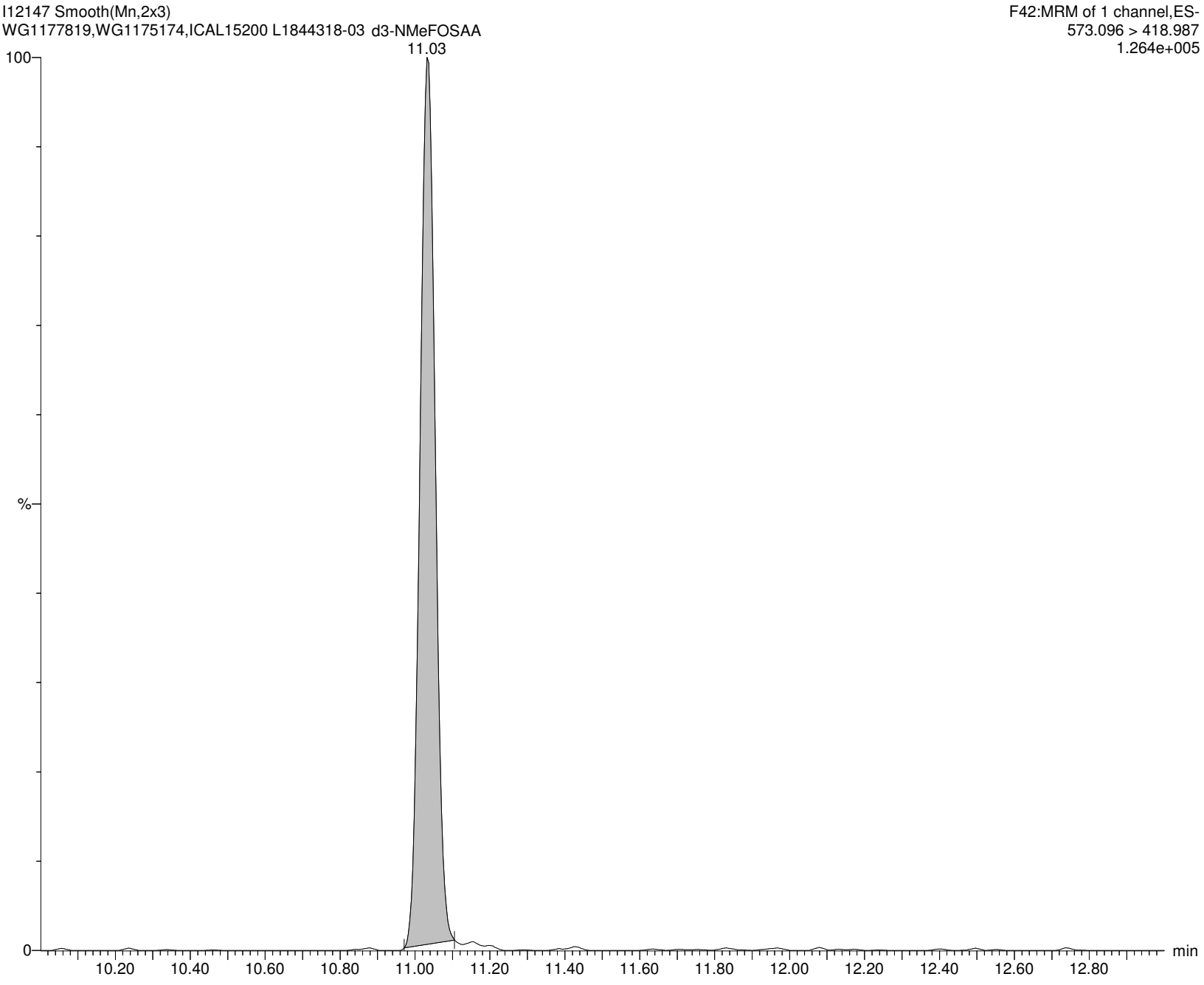

all concentration units in (ng/mL)

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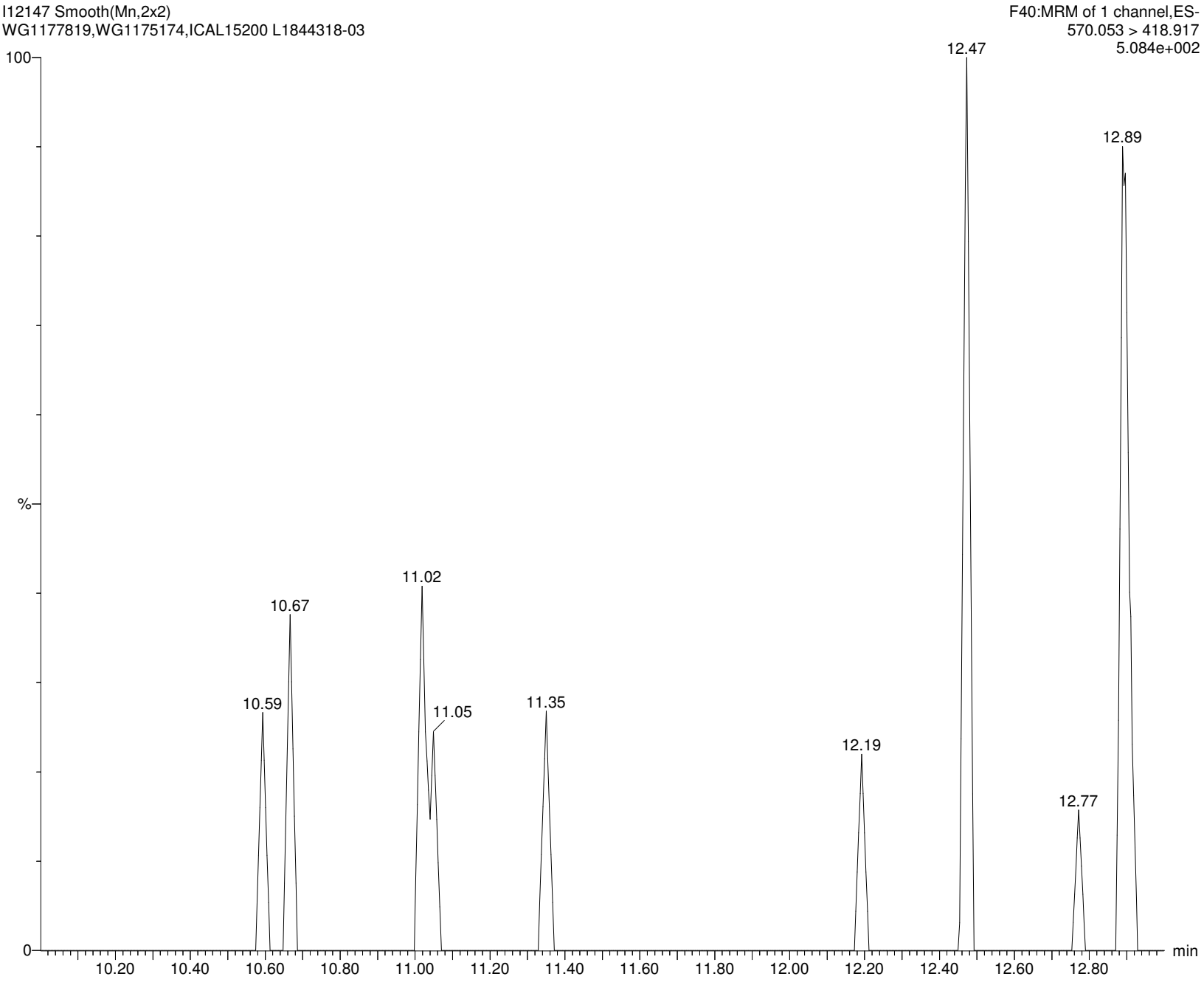

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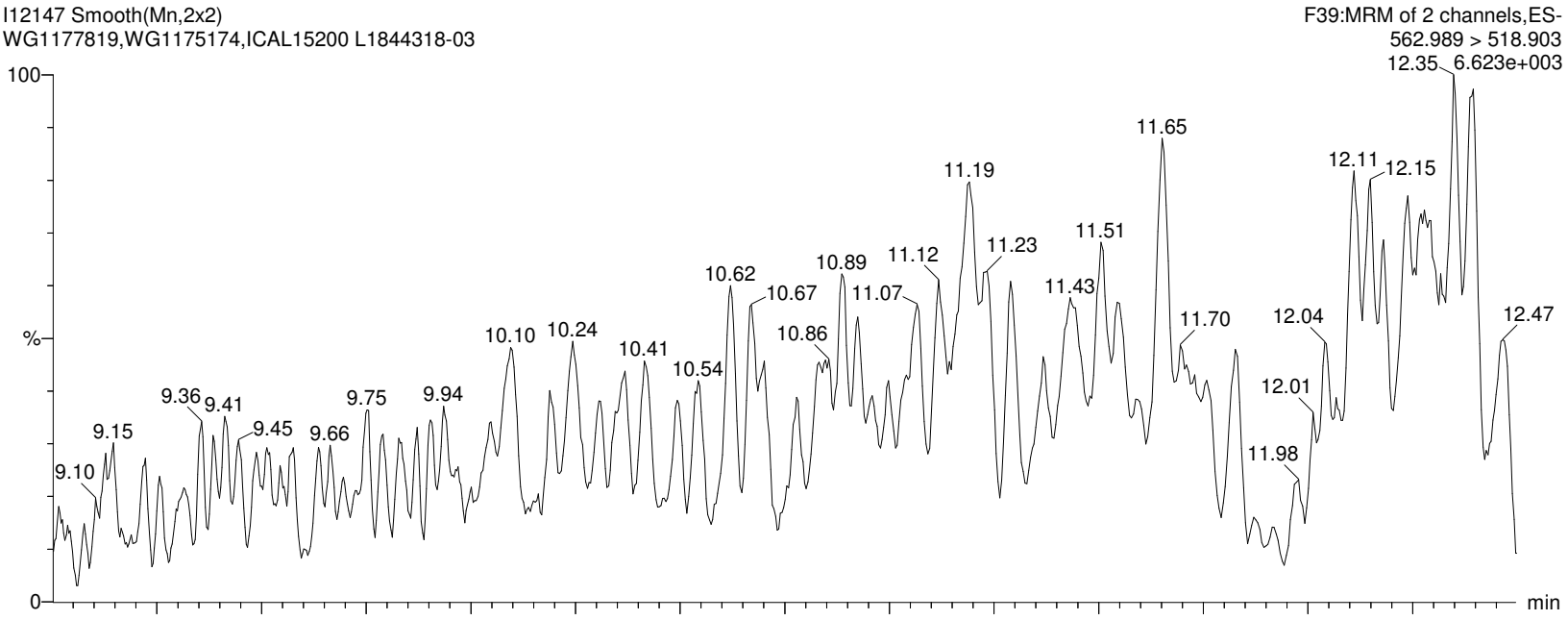

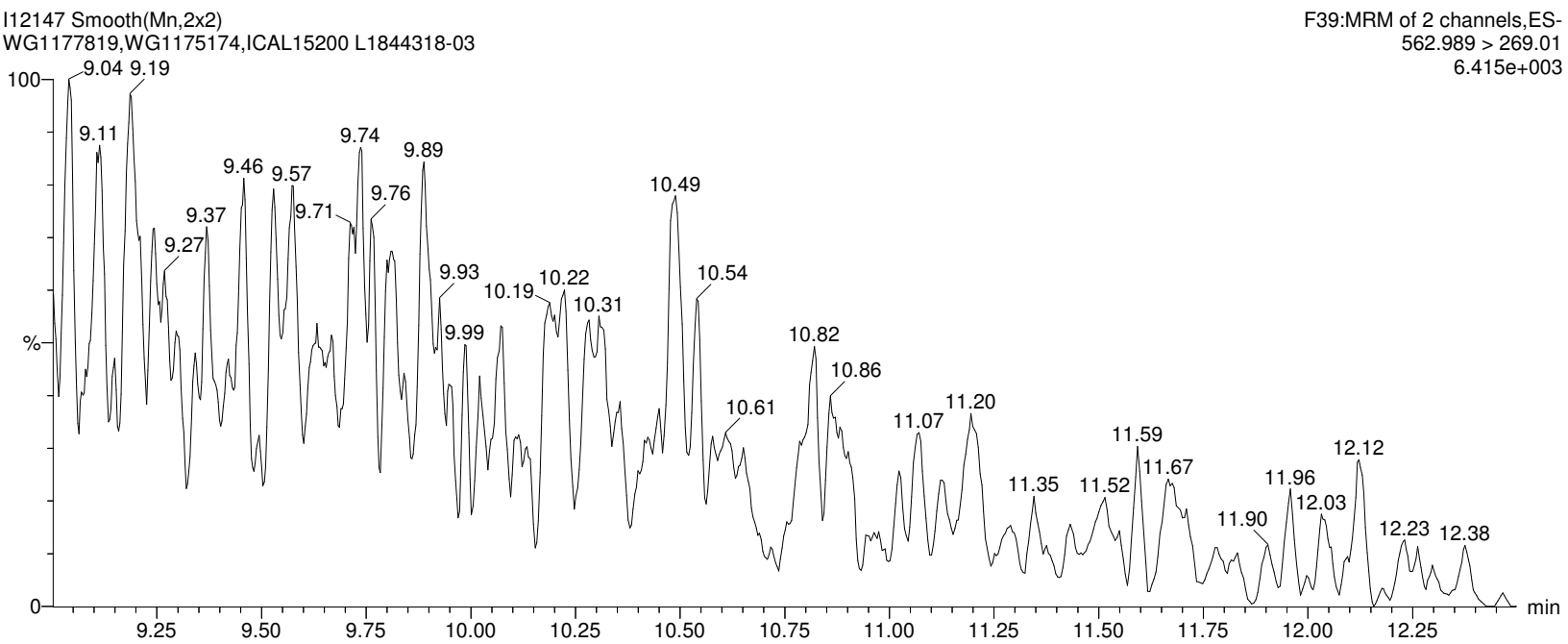

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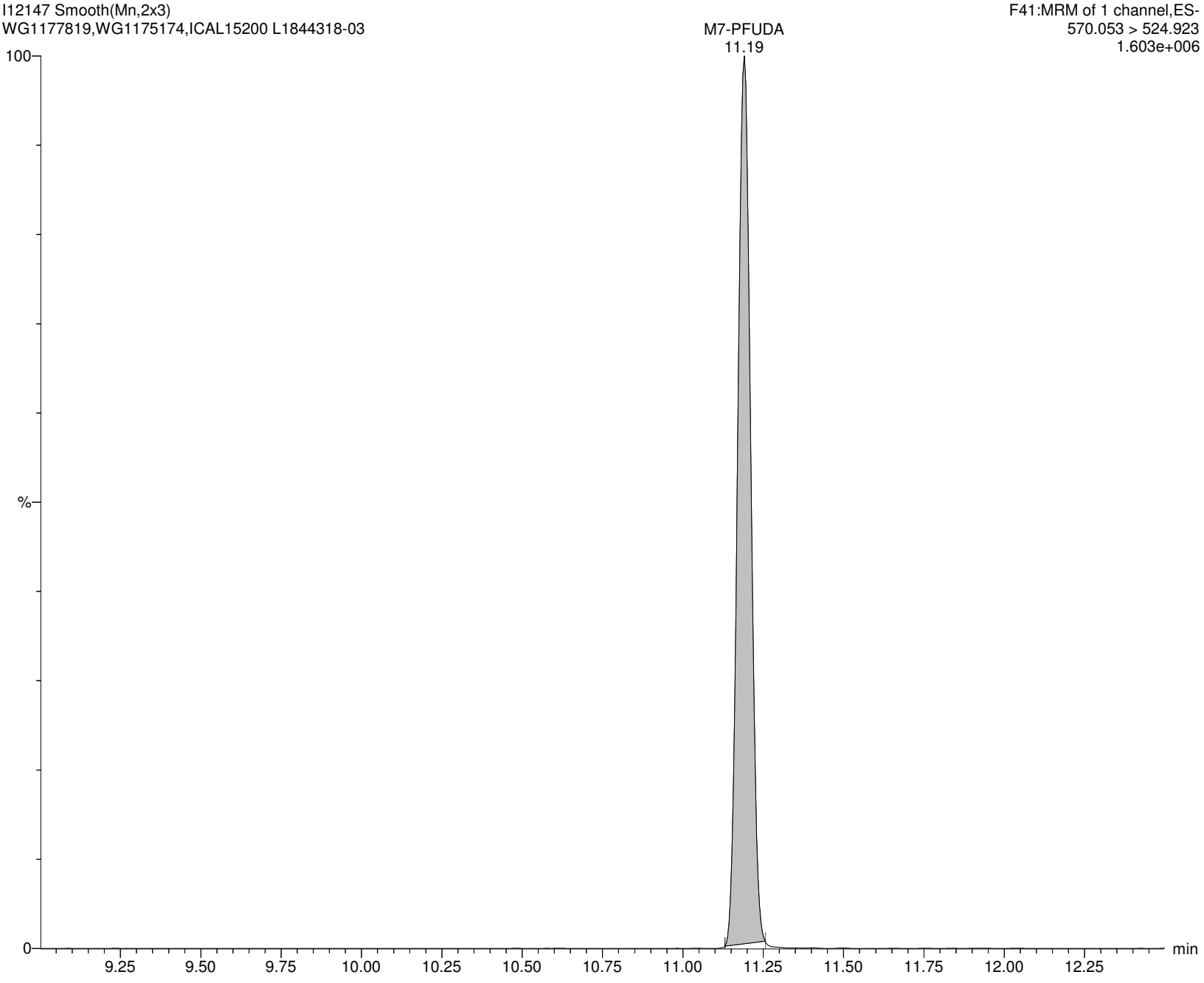

all concentration units in (ng/mL)

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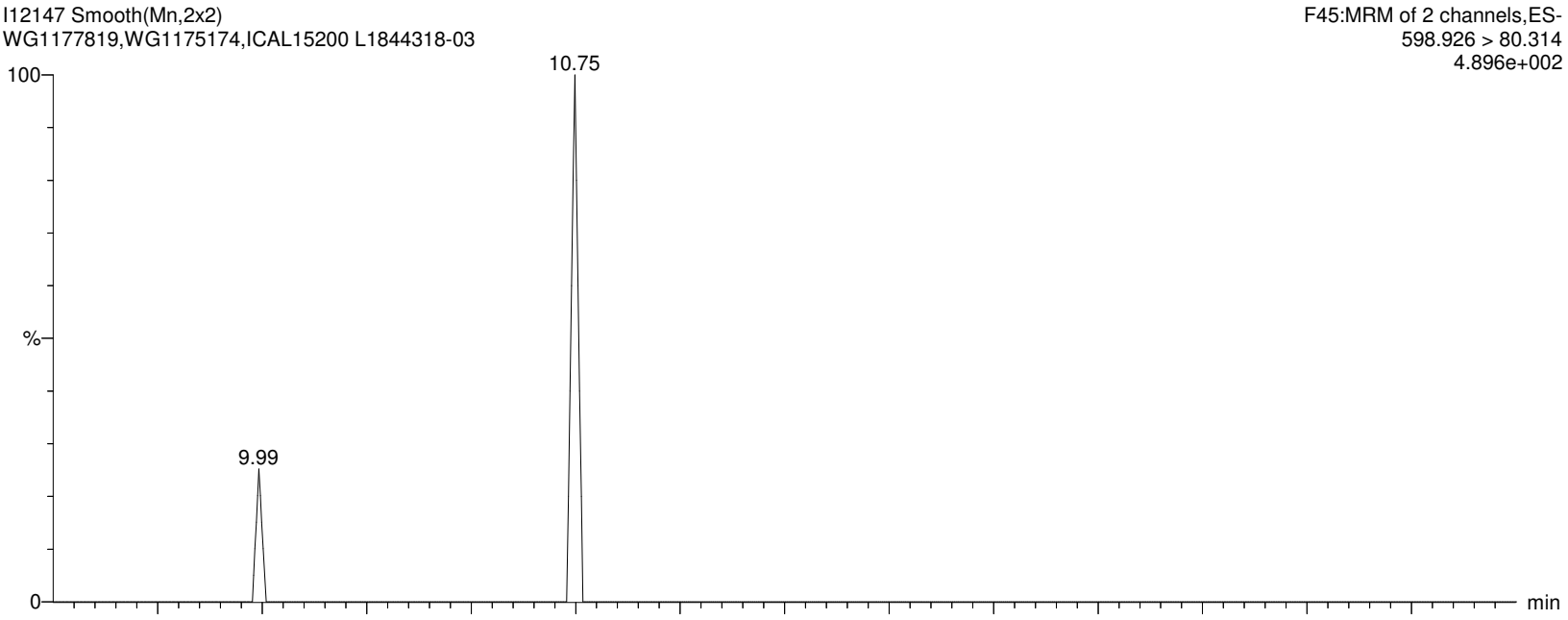

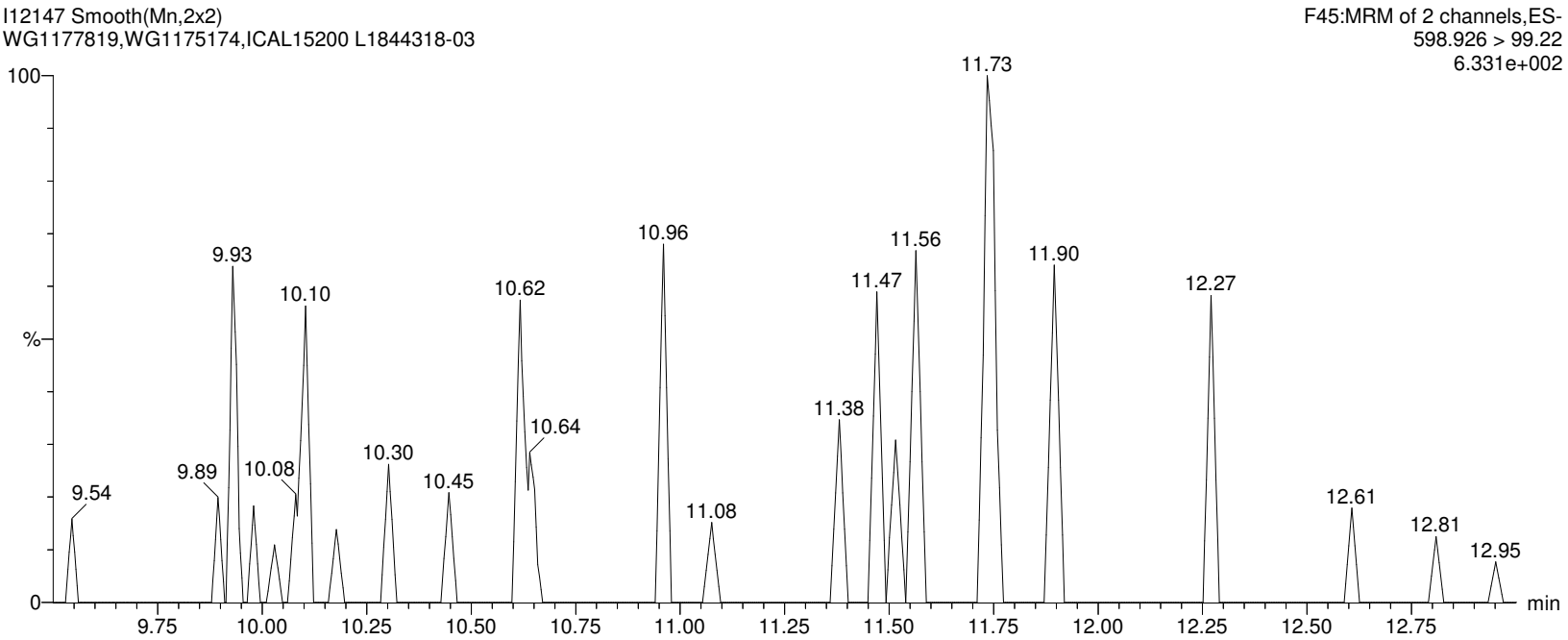

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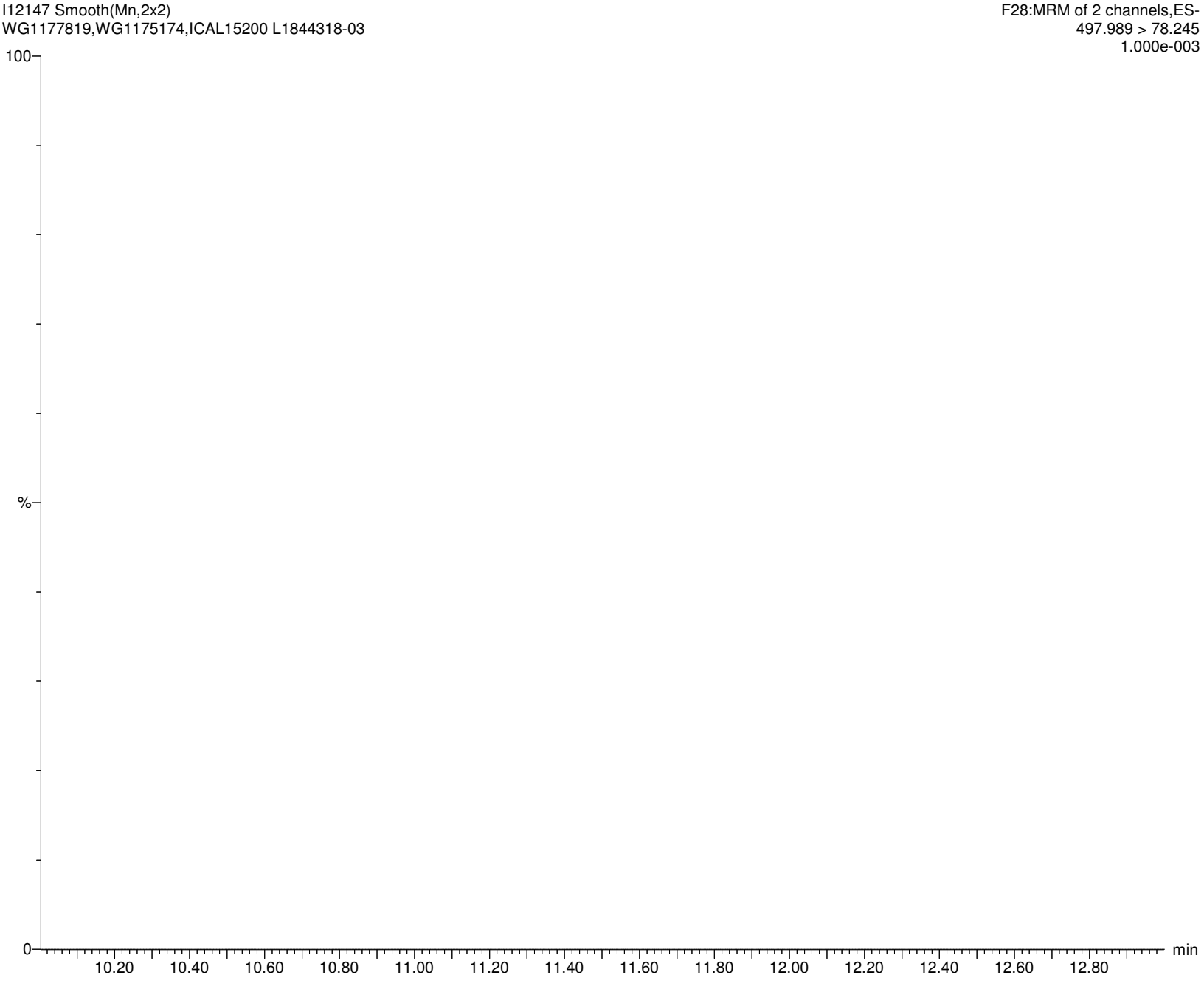
FOSA



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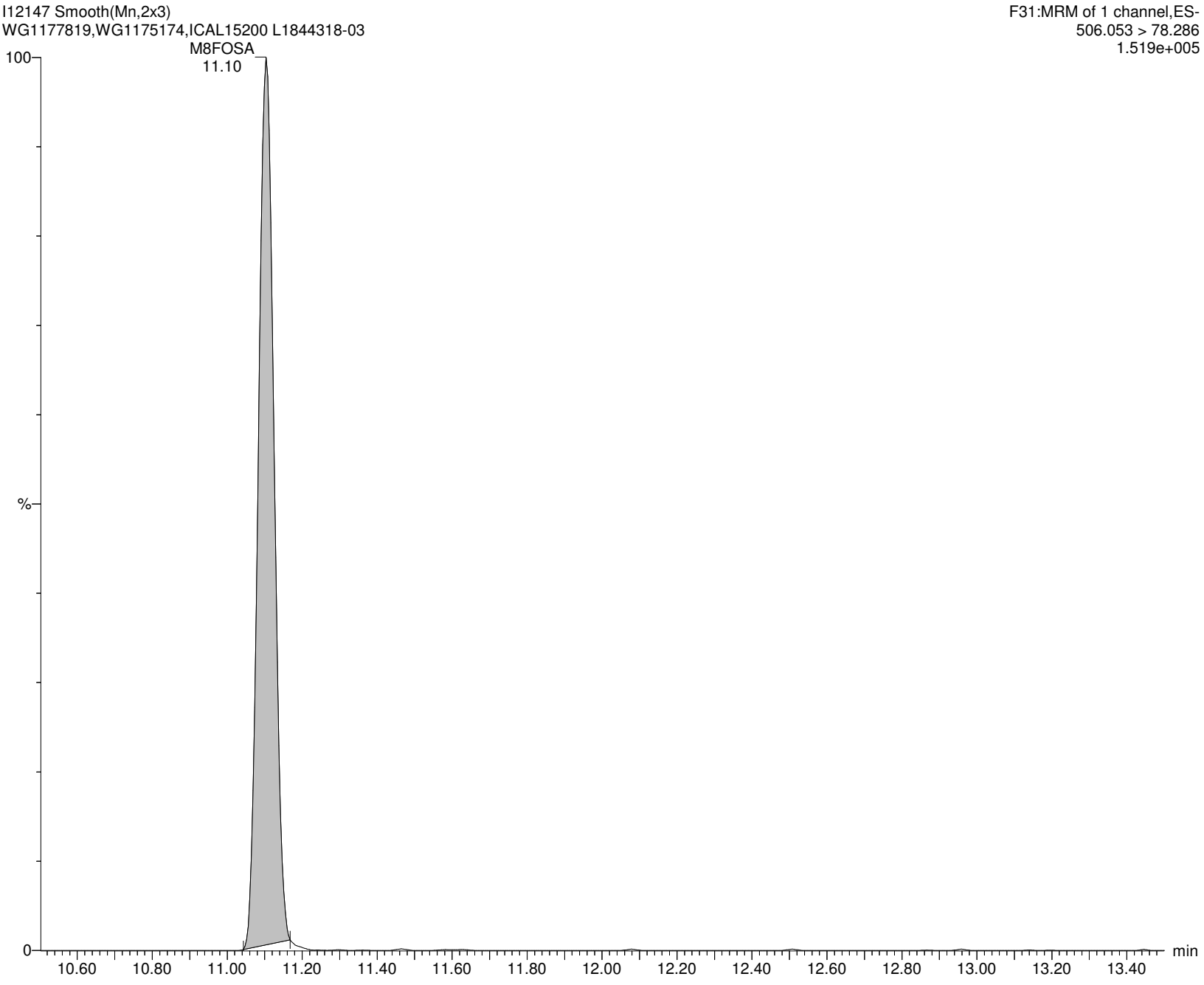

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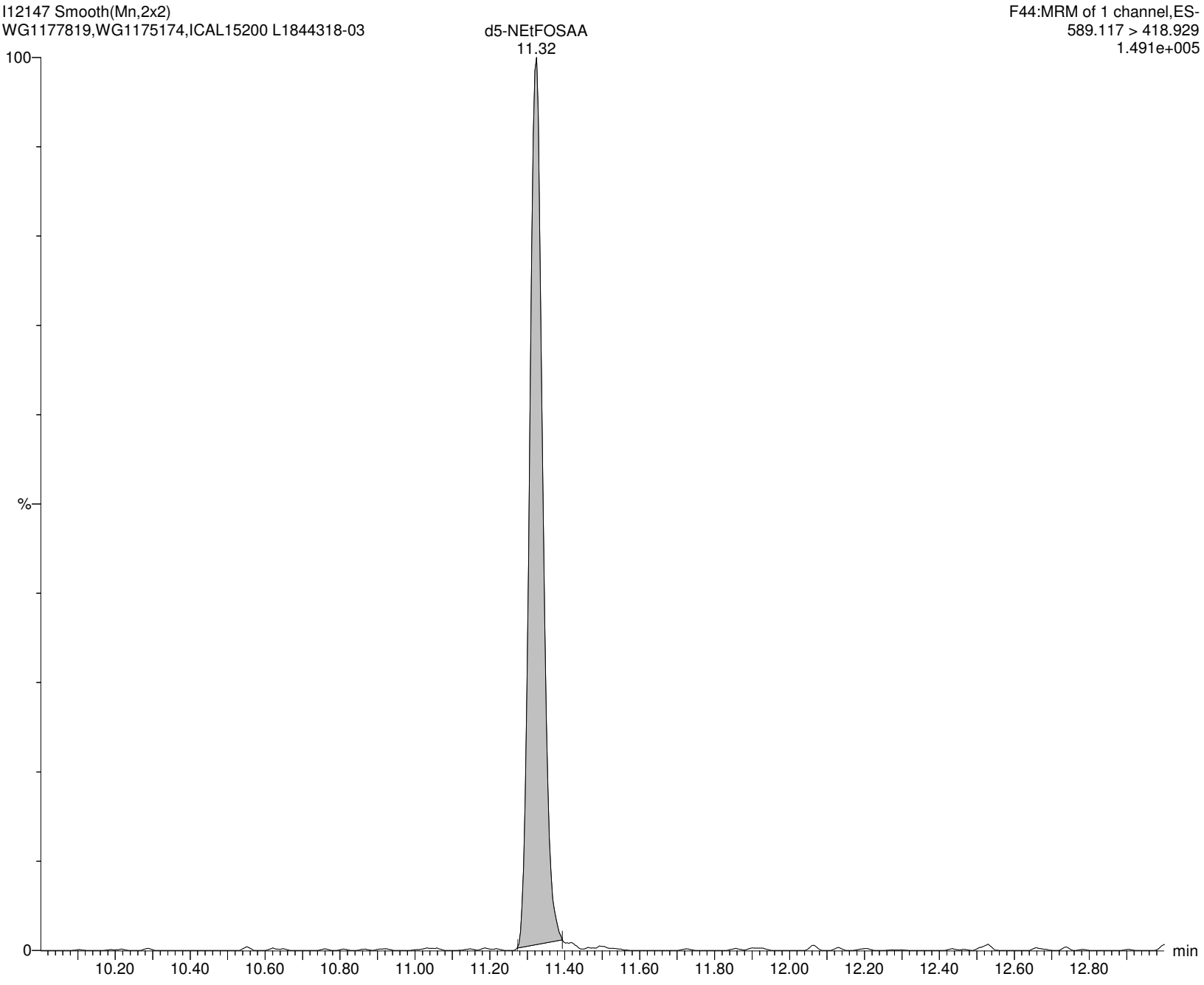
d5-NEtFOSAA



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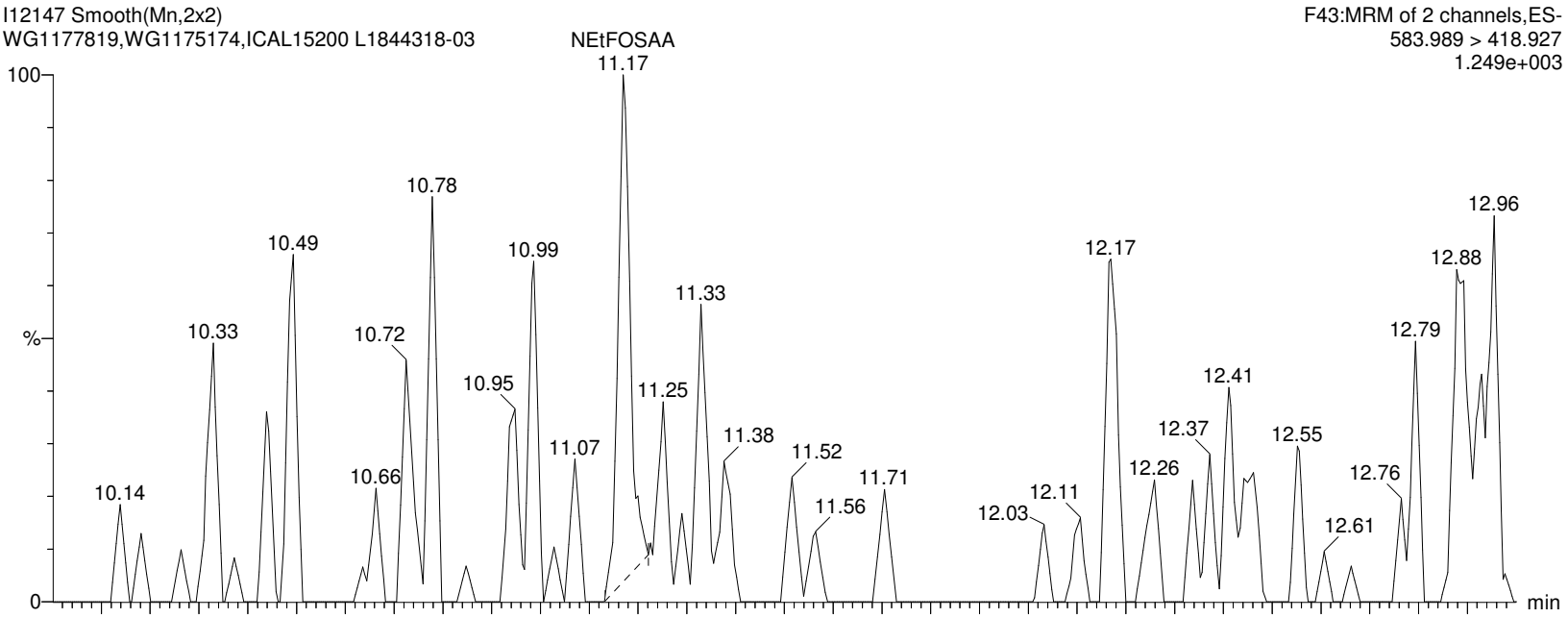

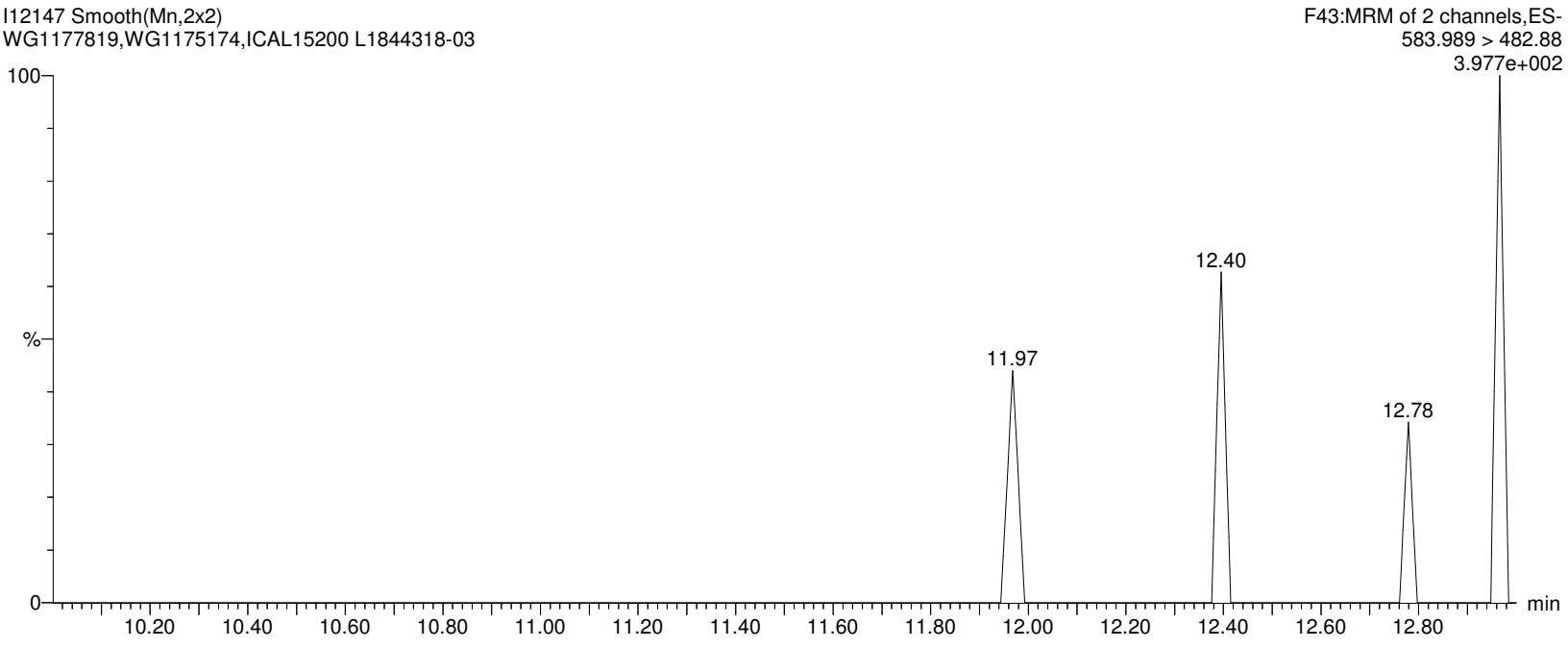

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Printed: Monday, November 12, 2018 13:06:44 Eastern Standard Time

Name: I12147
ID: L1844318-03
Date: 10-Nov-2018
Time: 05:29:02
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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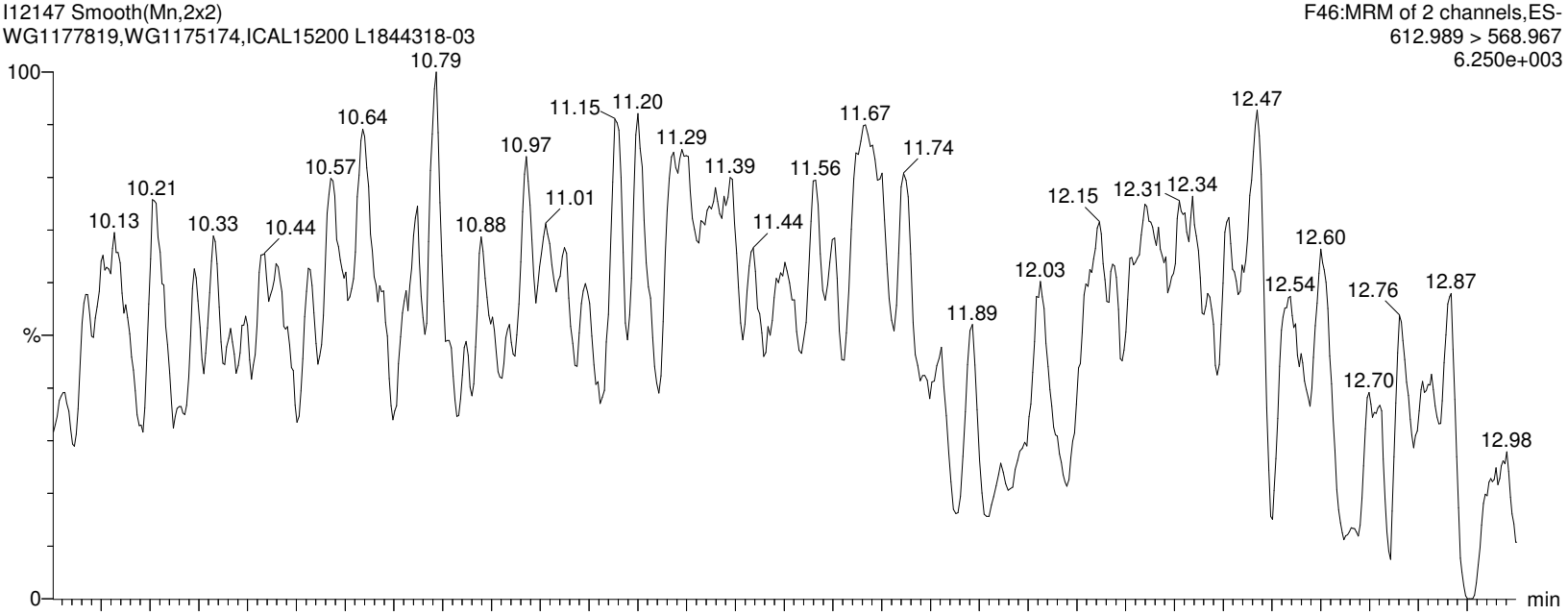

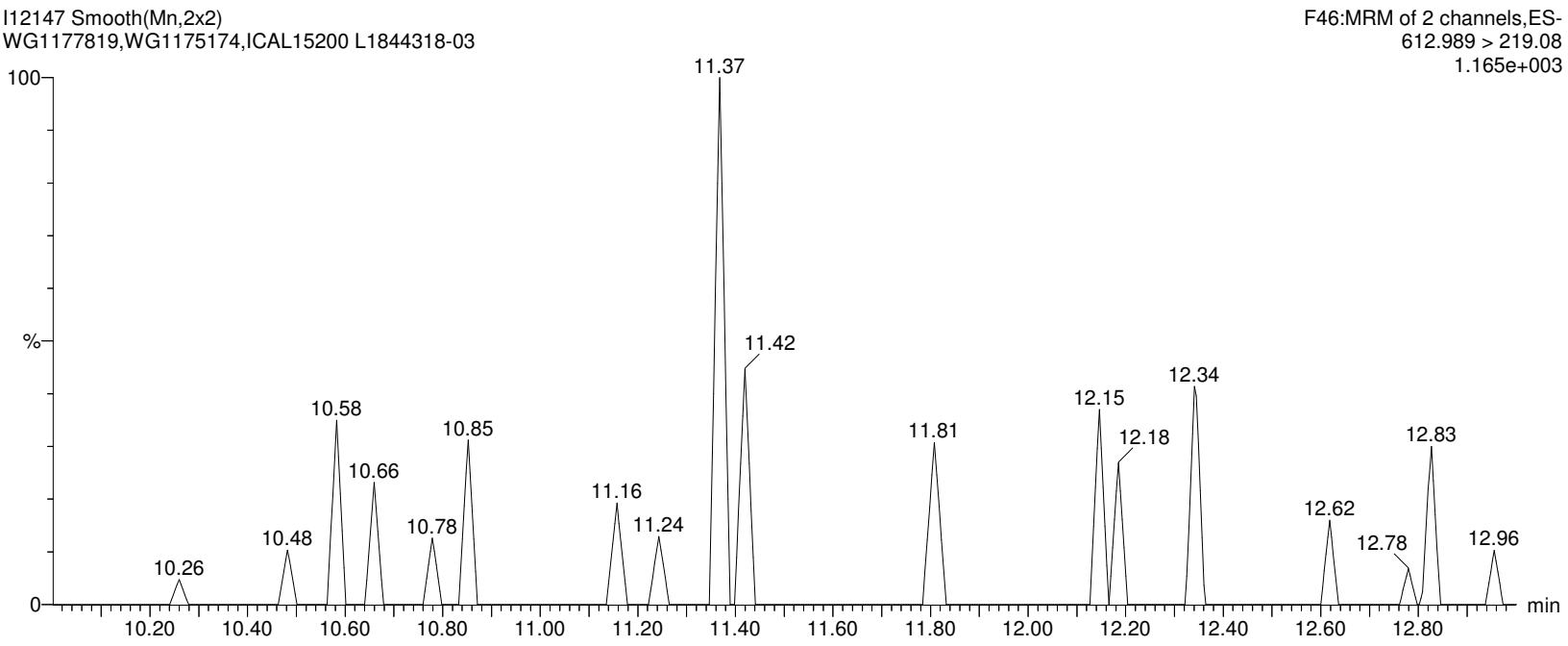

all concentration units in (ng/mL)

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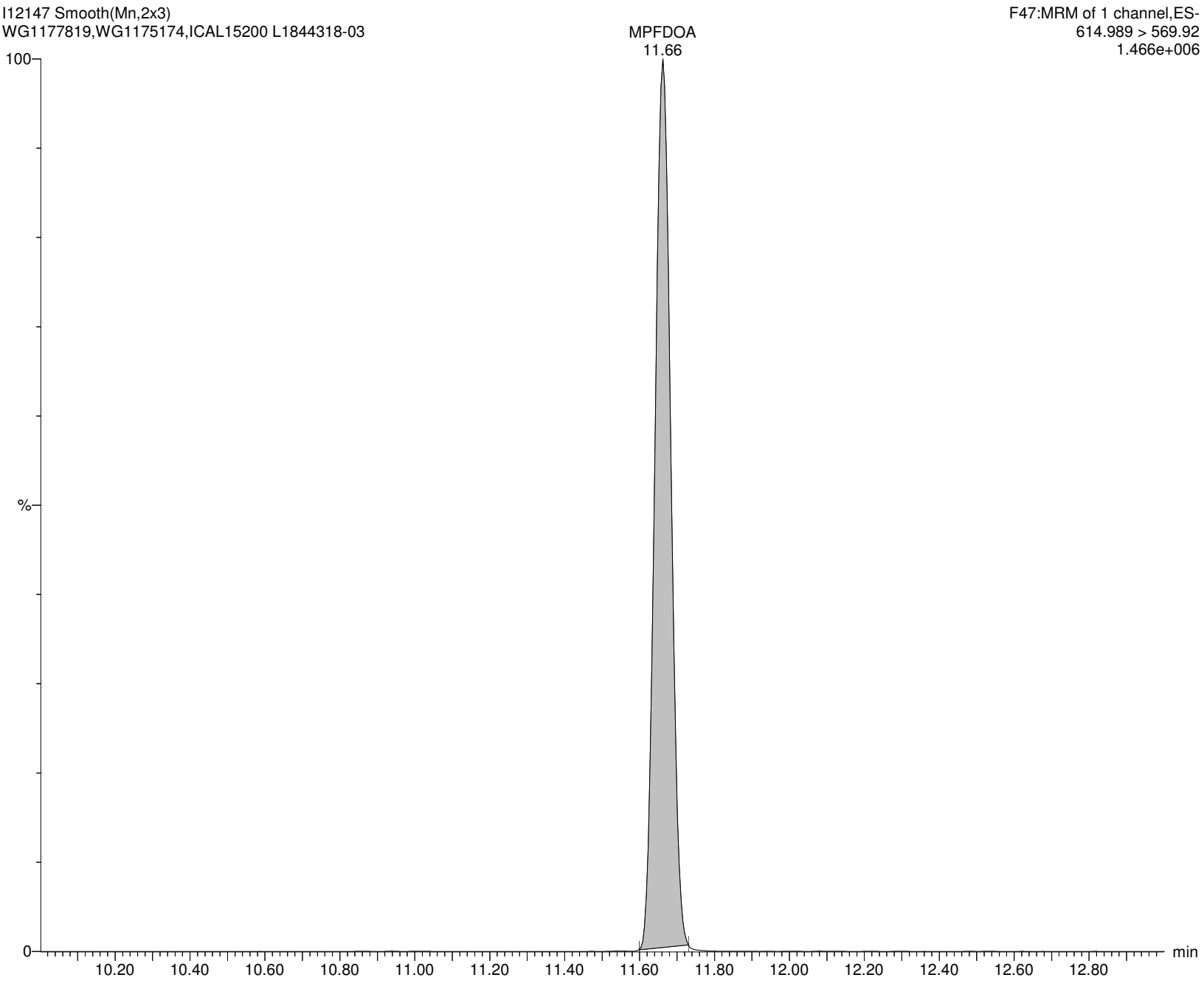

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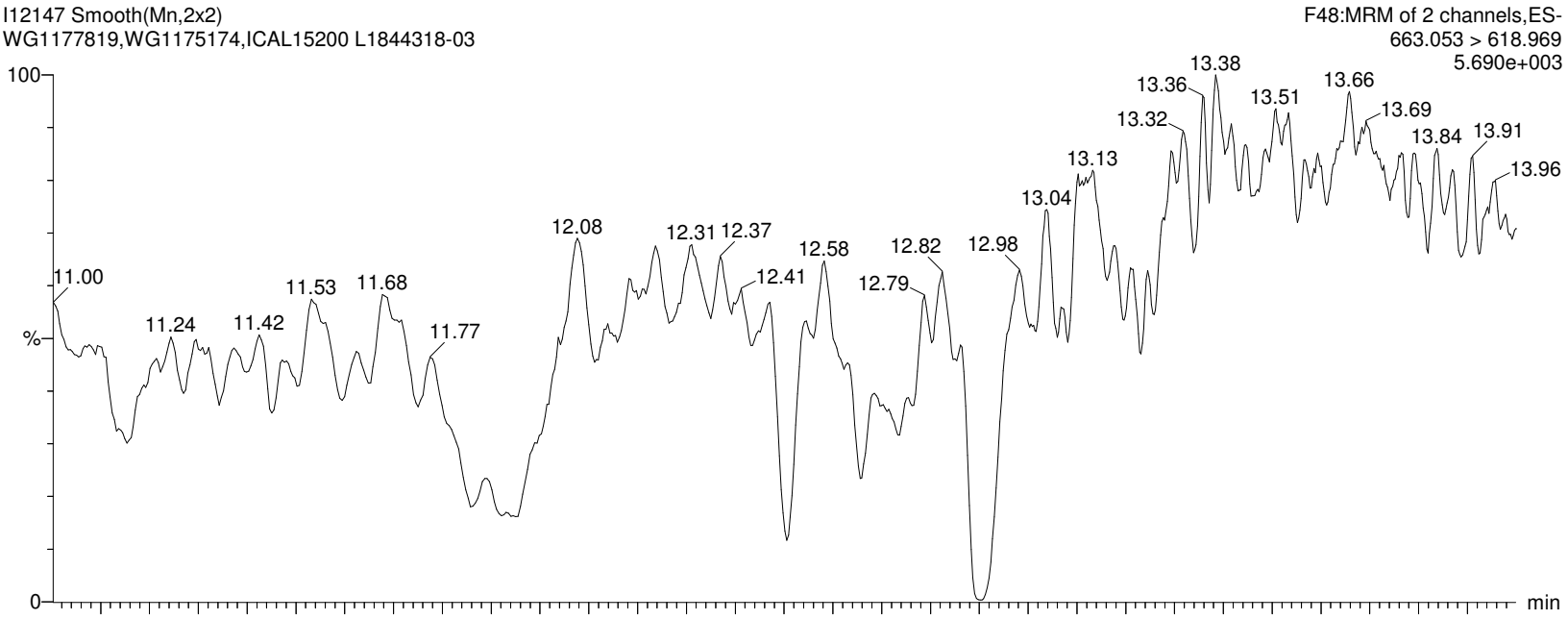

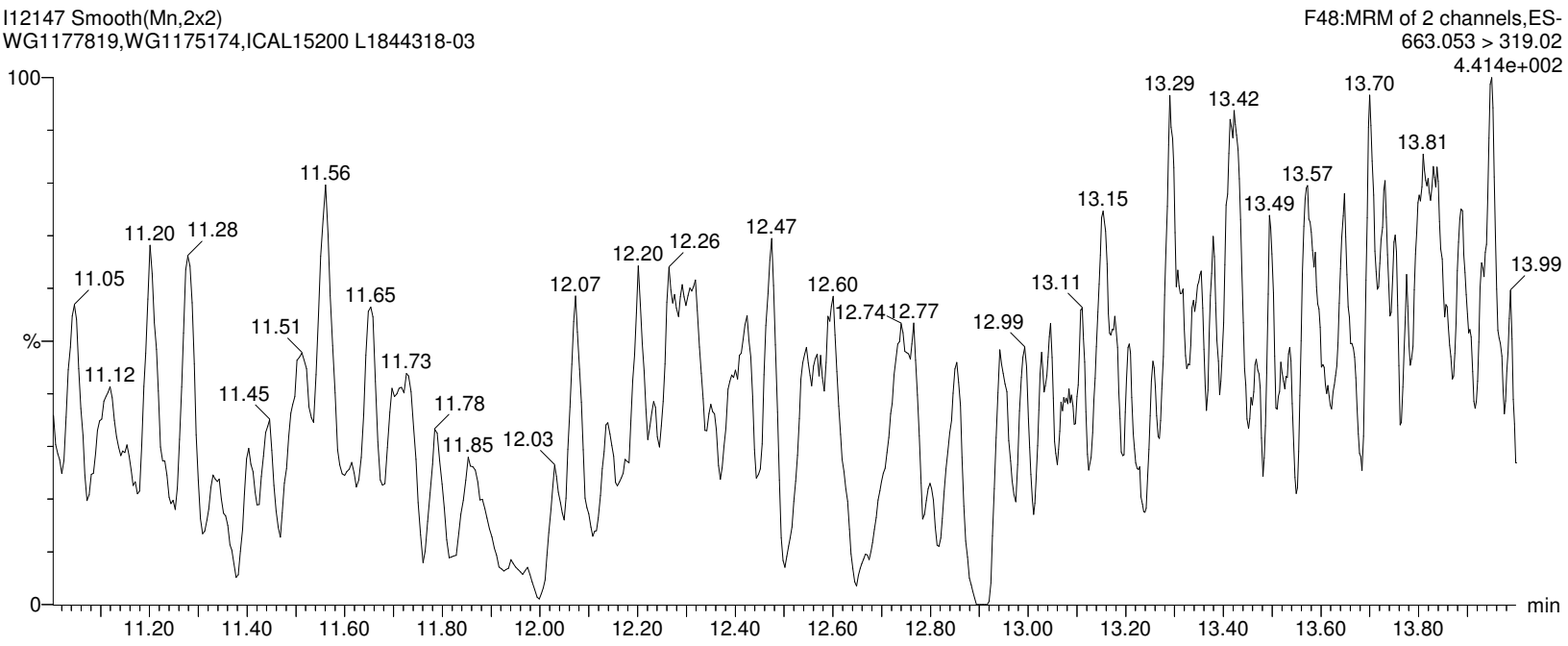

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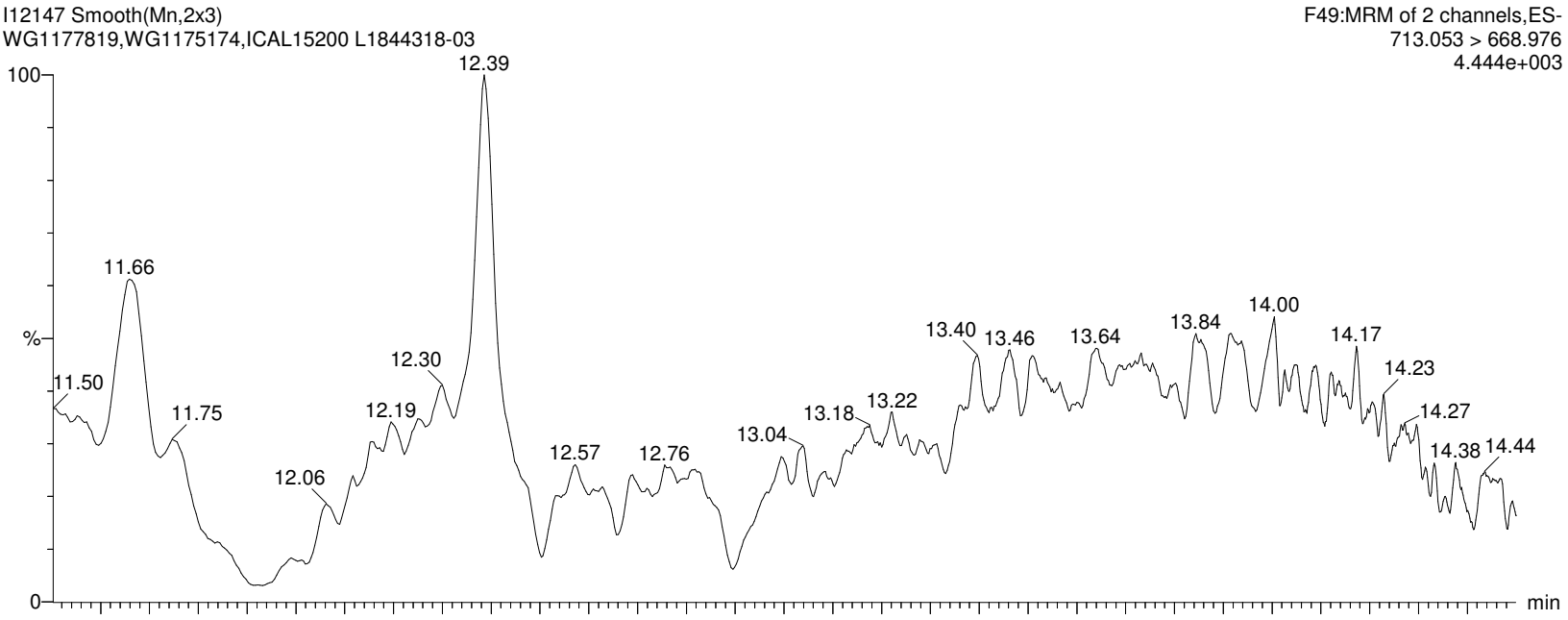

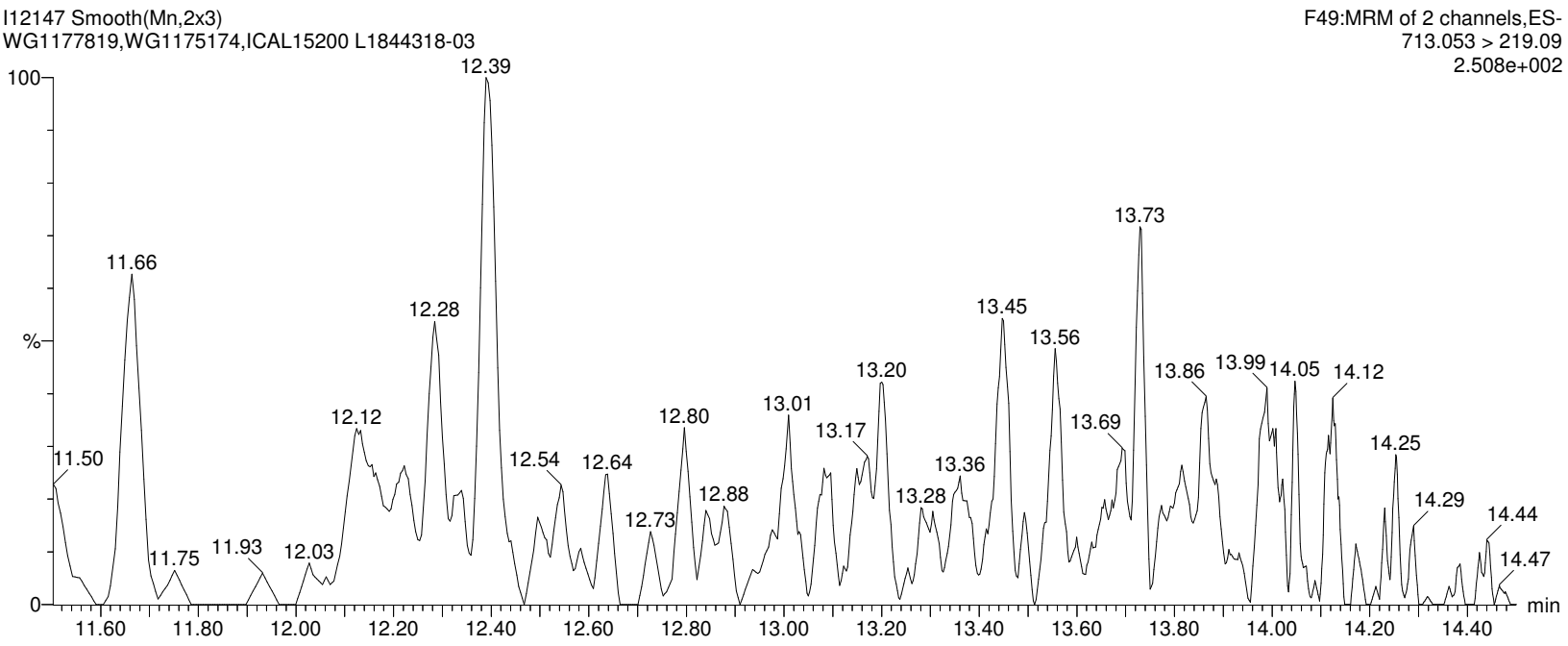

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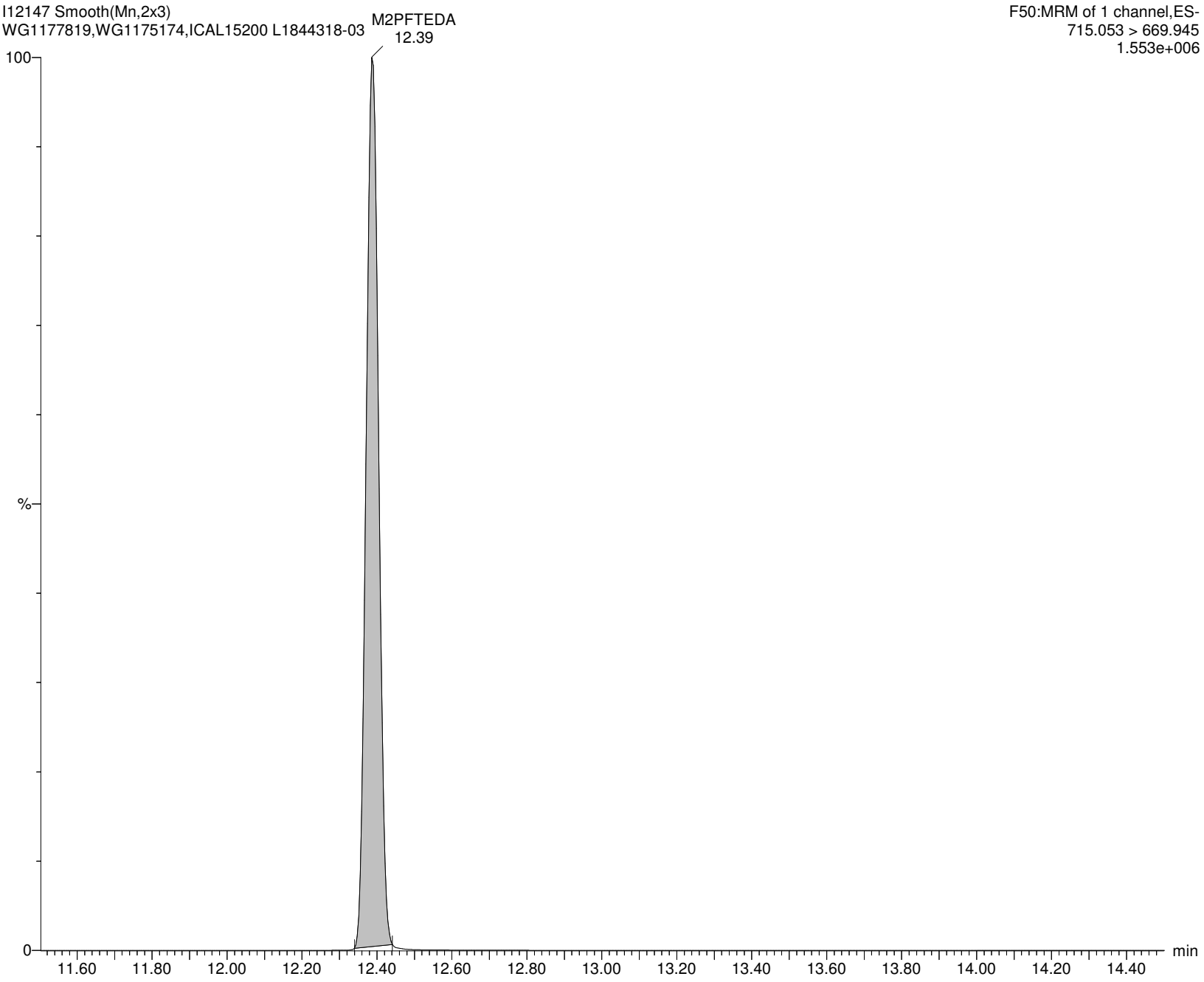

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Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-04
Name: I12148
Date: 10-Nov-2018
Time: 05:45:36
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.14	212.926 > 169.111	3704		0.908		na	
2	M3PFBA	INT STD	2.14	215.926 > 172.122	42607		4.603		na	46.0
3	MPFBA	INT STD	2.13	216.926 > 172.137	46671		11.532		na	115.3
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.11	267.989 > 223.081	55155		10.560		na	105.6
6	PFBS	375-73-5	5.79	298.989 > 80.295	183		0.176		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	11737		8.753		na	87.5
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	9826		11.814		na	118.1
10	PFHxA	307-24-4	7.06	312.989 > 269.028	1517		0.188		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	83096		9.814		na	98.1
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	63		0.042		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	2297		0.199		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	117251		11.777		na	117.8
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4	8.49	398.926 > 80.295	70		0.057	0.70	YES	
17	PFHxS	355-46-4		398.926 > 80.295	70		0.057		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8754		11.754		na	117.5
19	br-PFOA	335-67-1	9.06	412.989 > 368.9	1462		0.138	2.65	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	8818		0.835	9.23	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	117524		6.224		na	62.2
22	PFOA	335-67-1		412.989 > 368.9	10280		0.973		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	108263		11.423		na	114.2
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	5209		7.544		na	75.4
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1	10.02	462.989 > 418.931	554		0.069		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	96588		10.218		na	102.2
29	br-PFOS	1763-23-1	9.83	498.989 > 80.294	650		0.428	3.69	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	577		0.533	1.61	YES	
31	PFOS	1763-23-1		498.989 > 80.294	1227		0.961		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10756		6.640		na	66.4
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10366		10.334		na	103.3
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	88529		5.955		na	59.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	83861		10.491		na	104.9
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2514		6.202		na	62.0
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Name: I12148
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Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6421		7.452		na	74.5
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	75279		11.252		na	112.5
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	13338		4.677		na	46.8
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5855		7.043		na	70.4
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	71746		9.544		na	95.4
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7	12.39	713.053 > 668.976	350		0.073		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	56839		10.208		na	102.1

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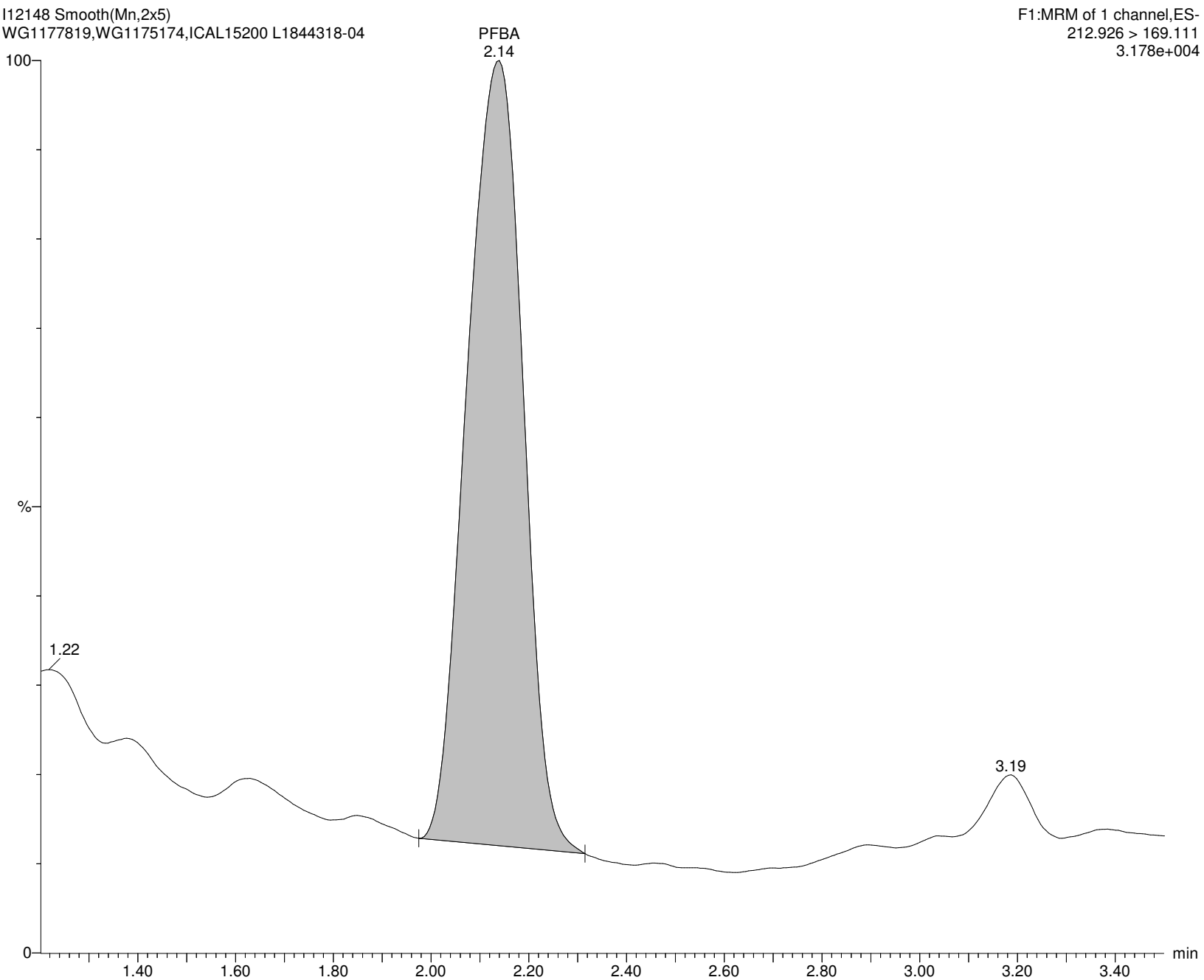

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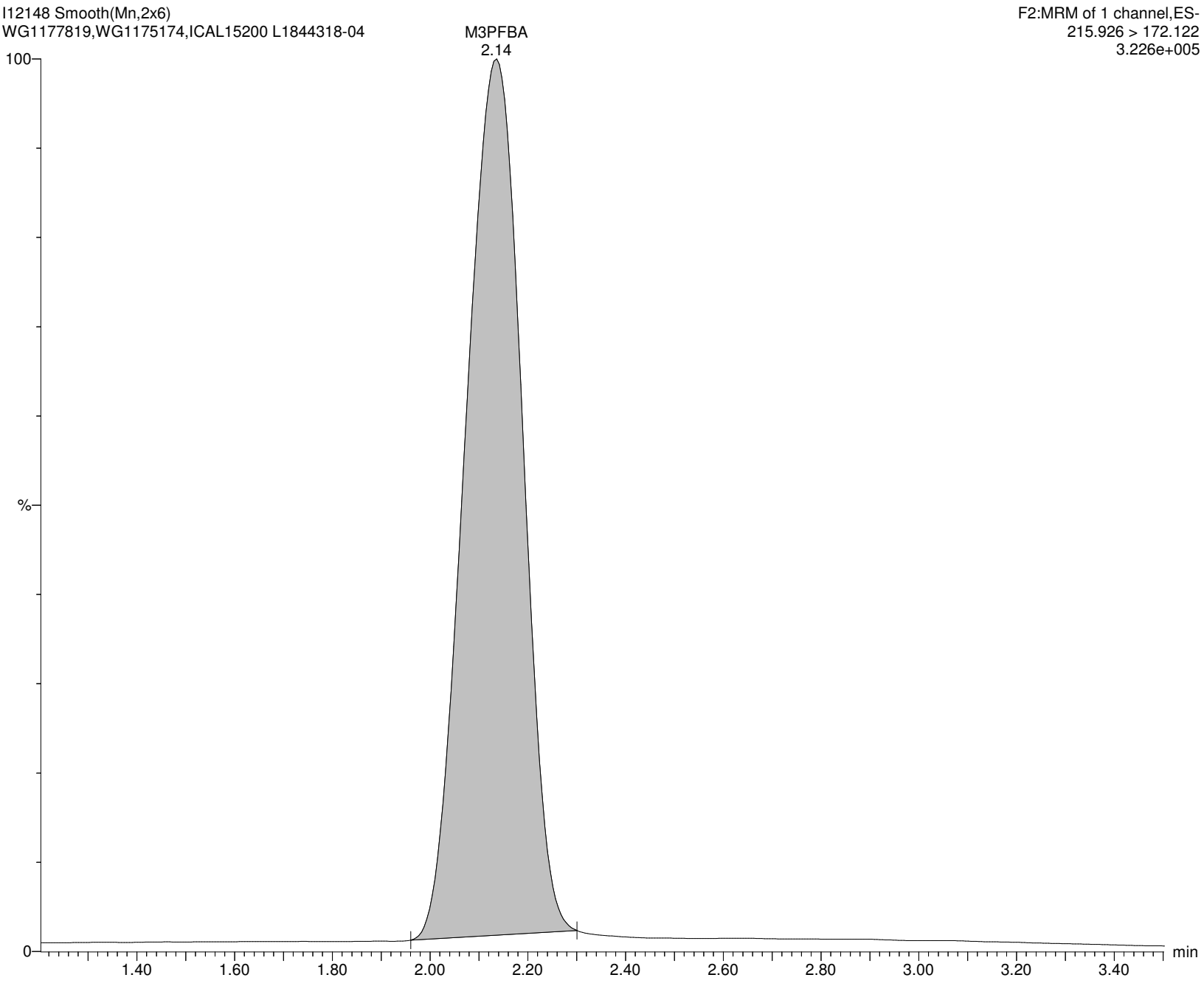

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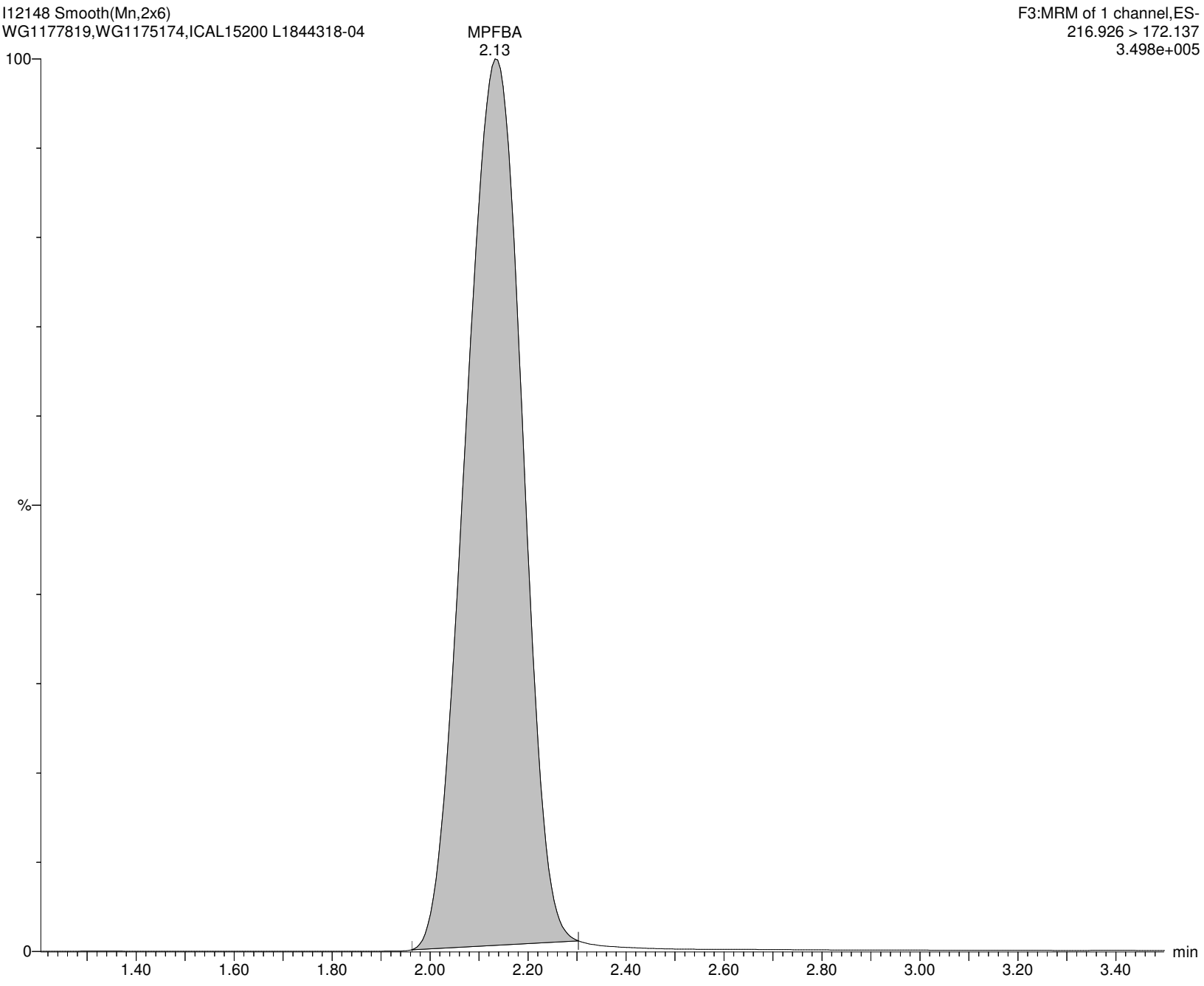

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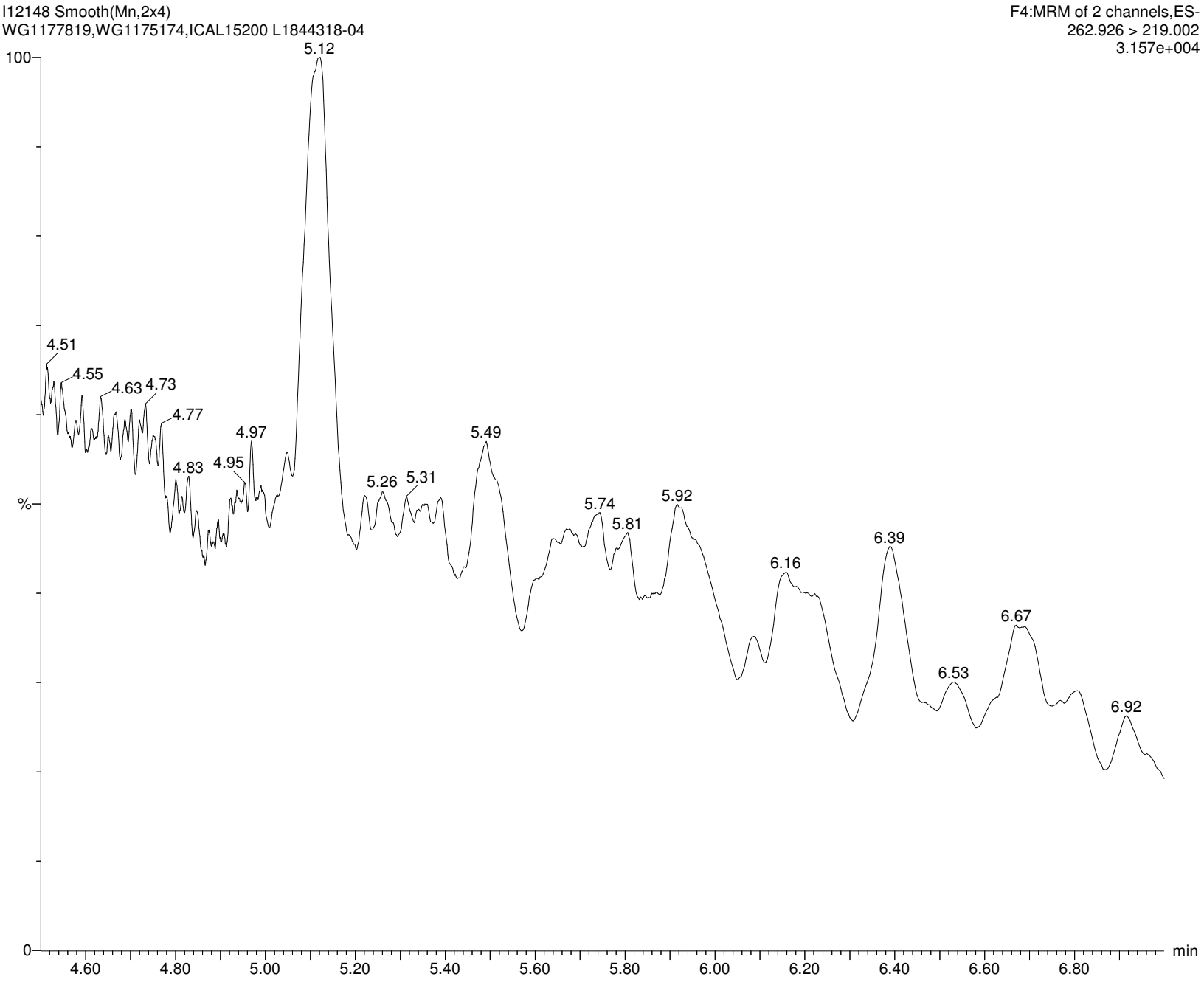

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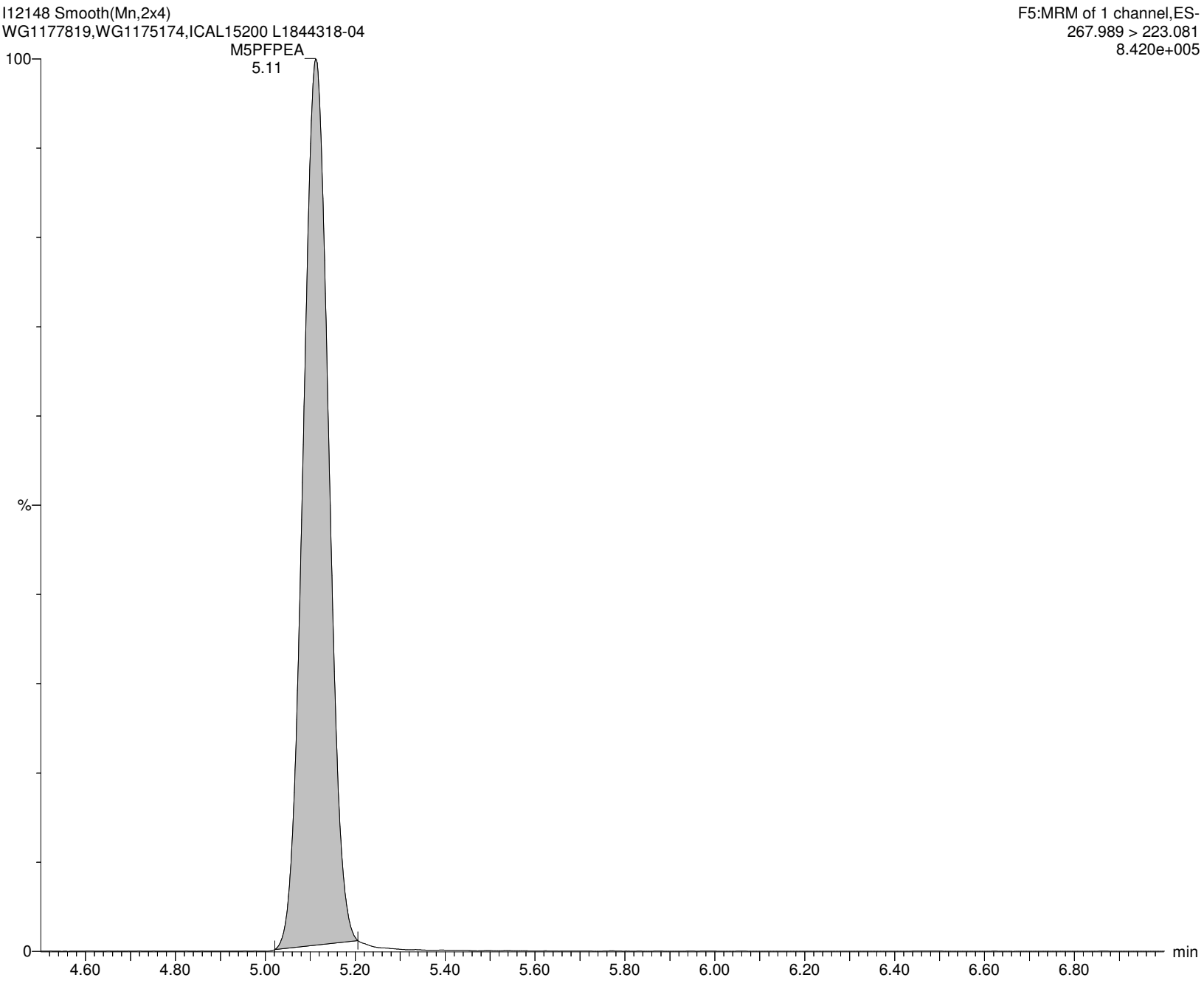

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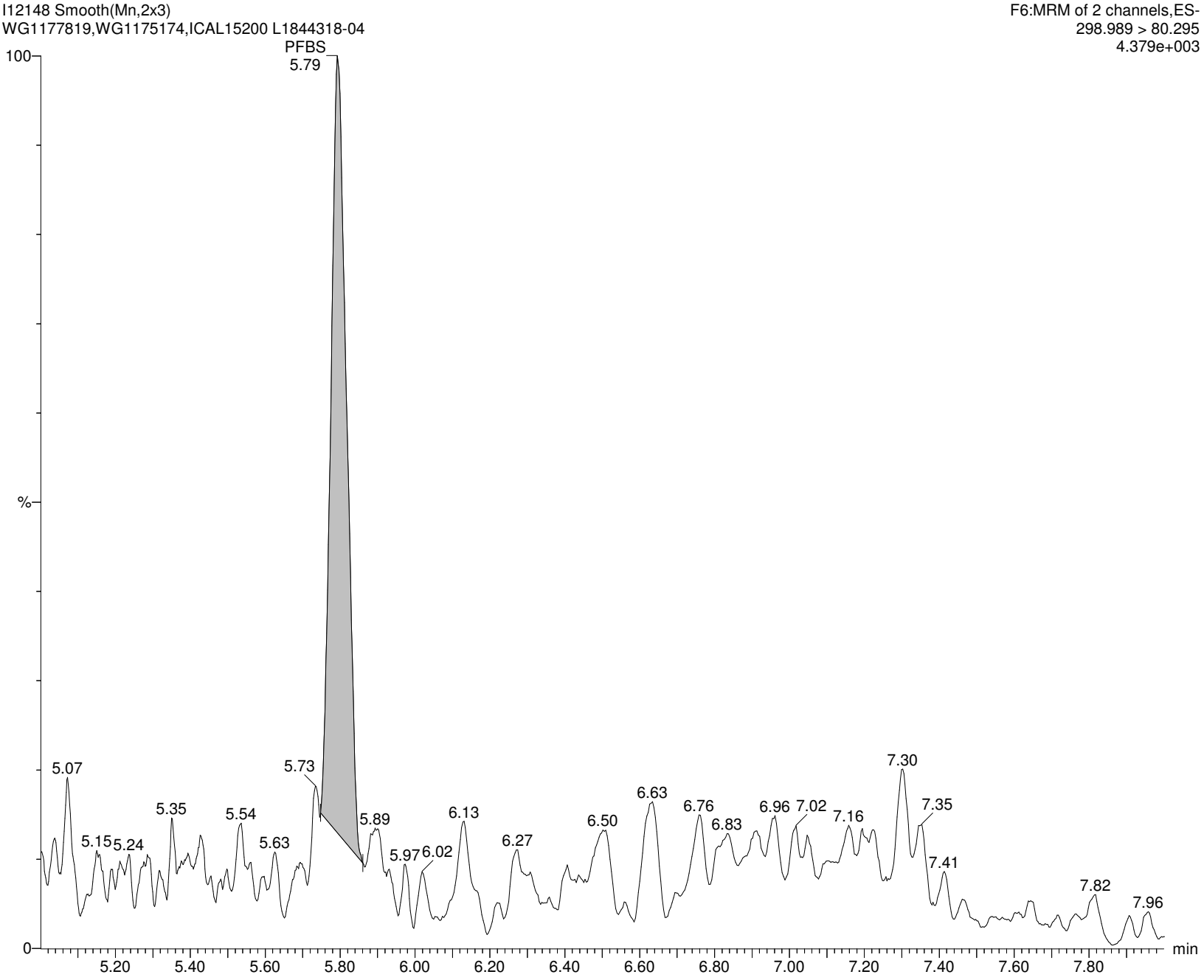

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User: LCMS01:AJ
Vial: 1:C,1
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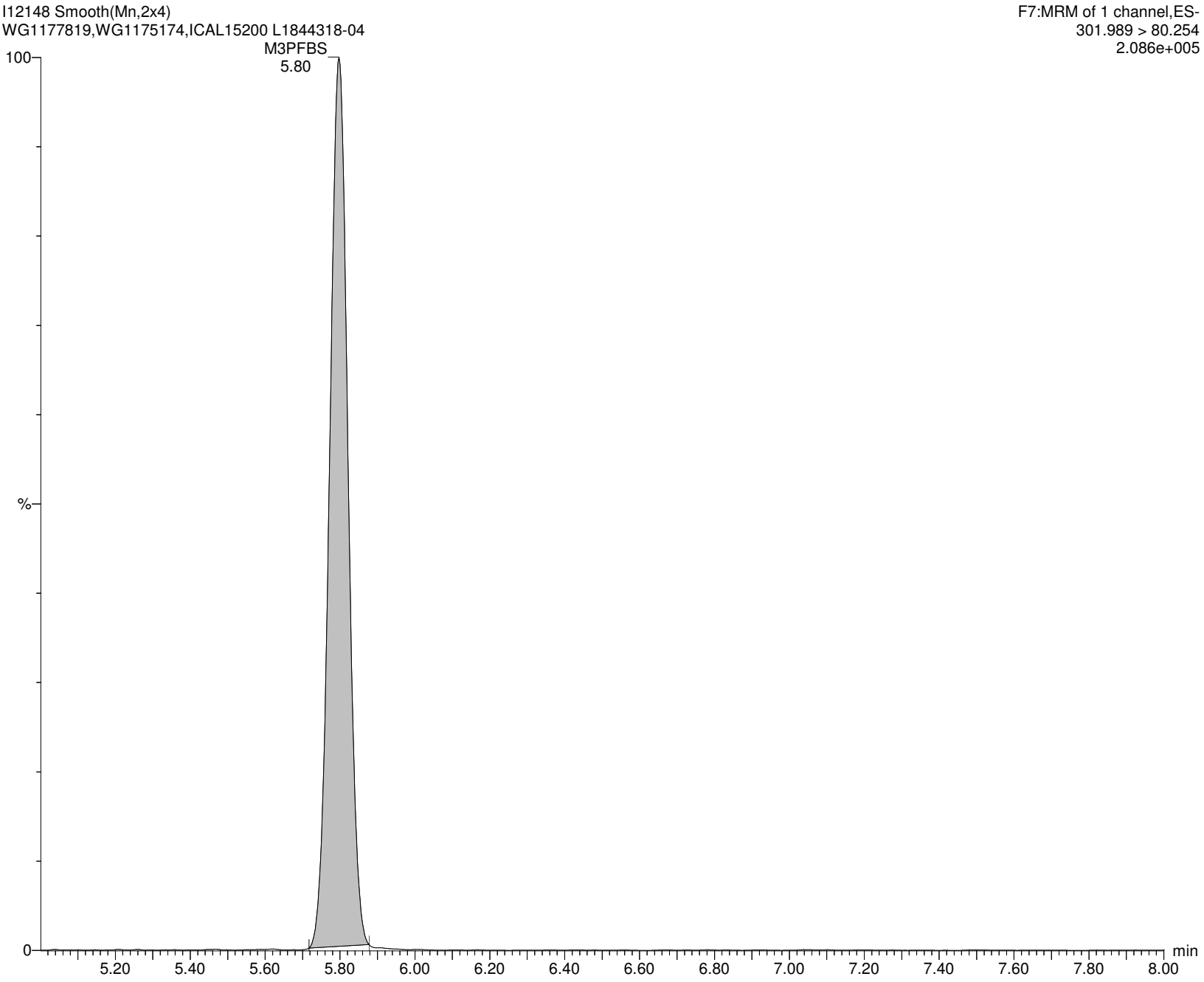

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:46 Eastern Standard Time

Name: I12148
ID: L1844318-04
Date: 10-Nov-2018
Time: 05:45:36
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,1
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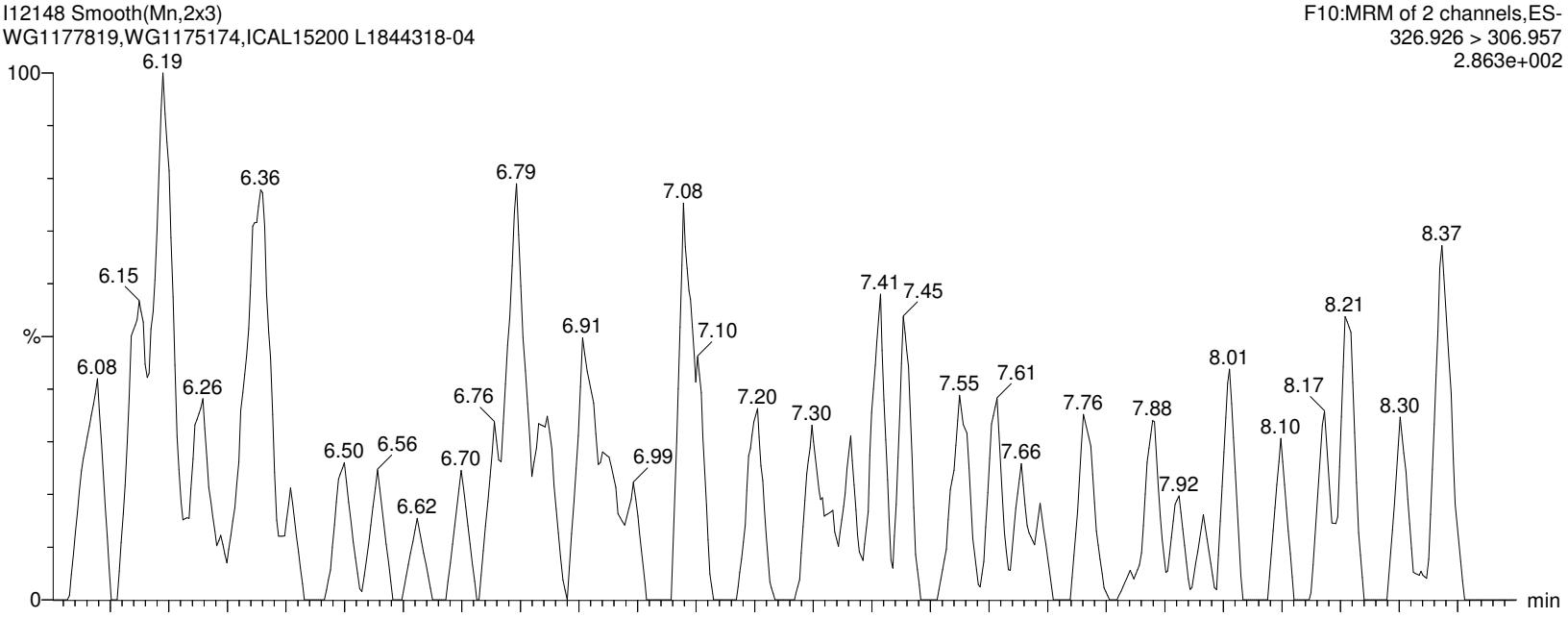

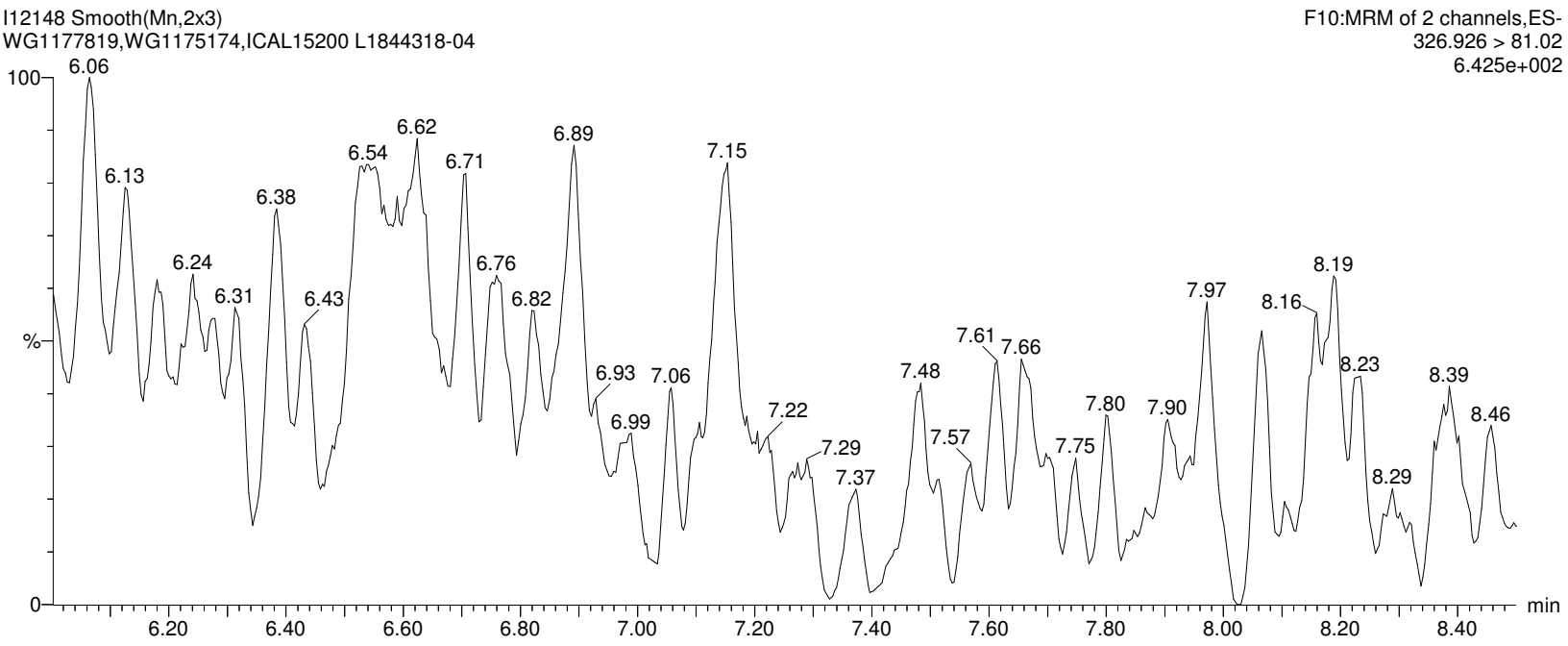

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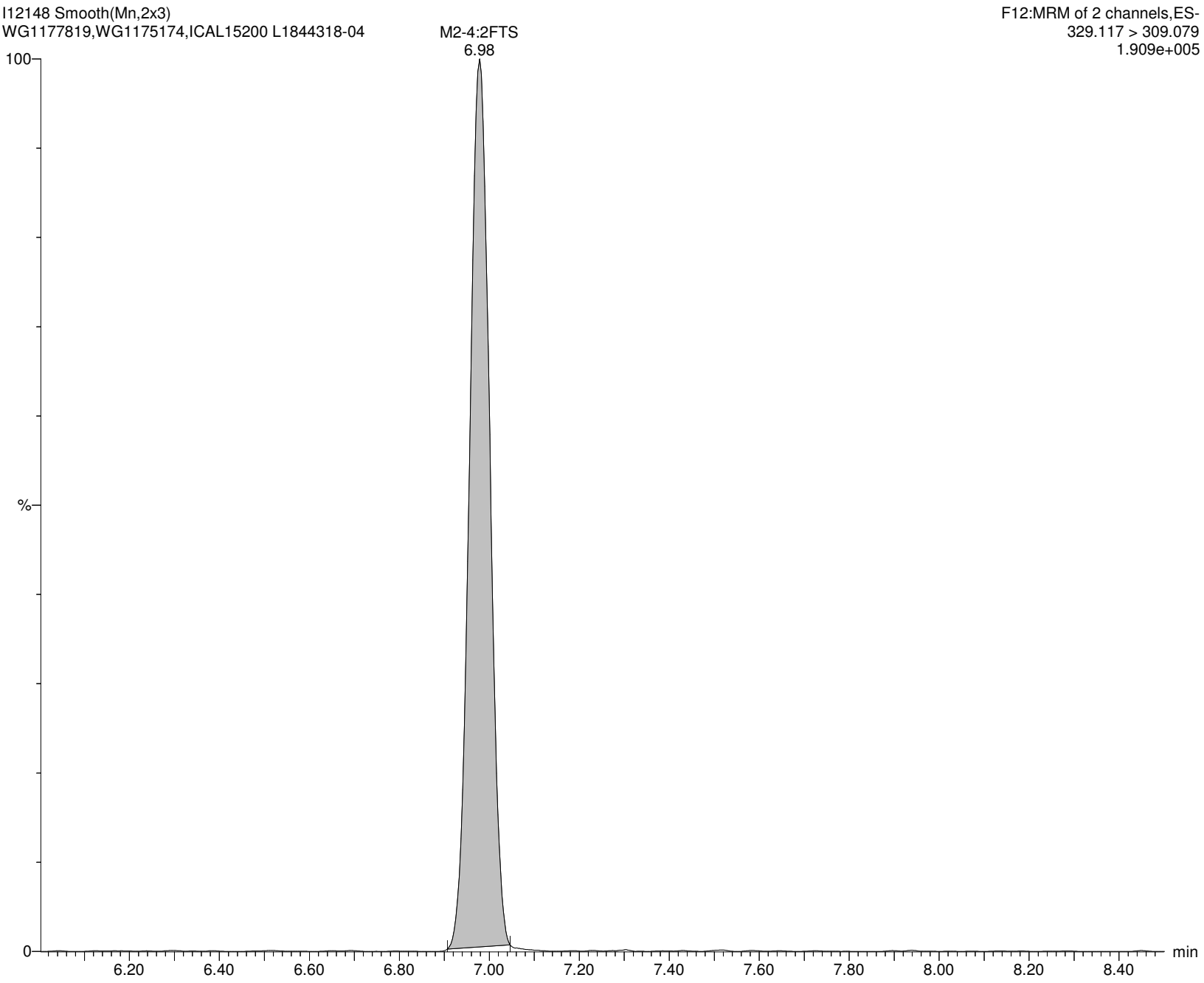

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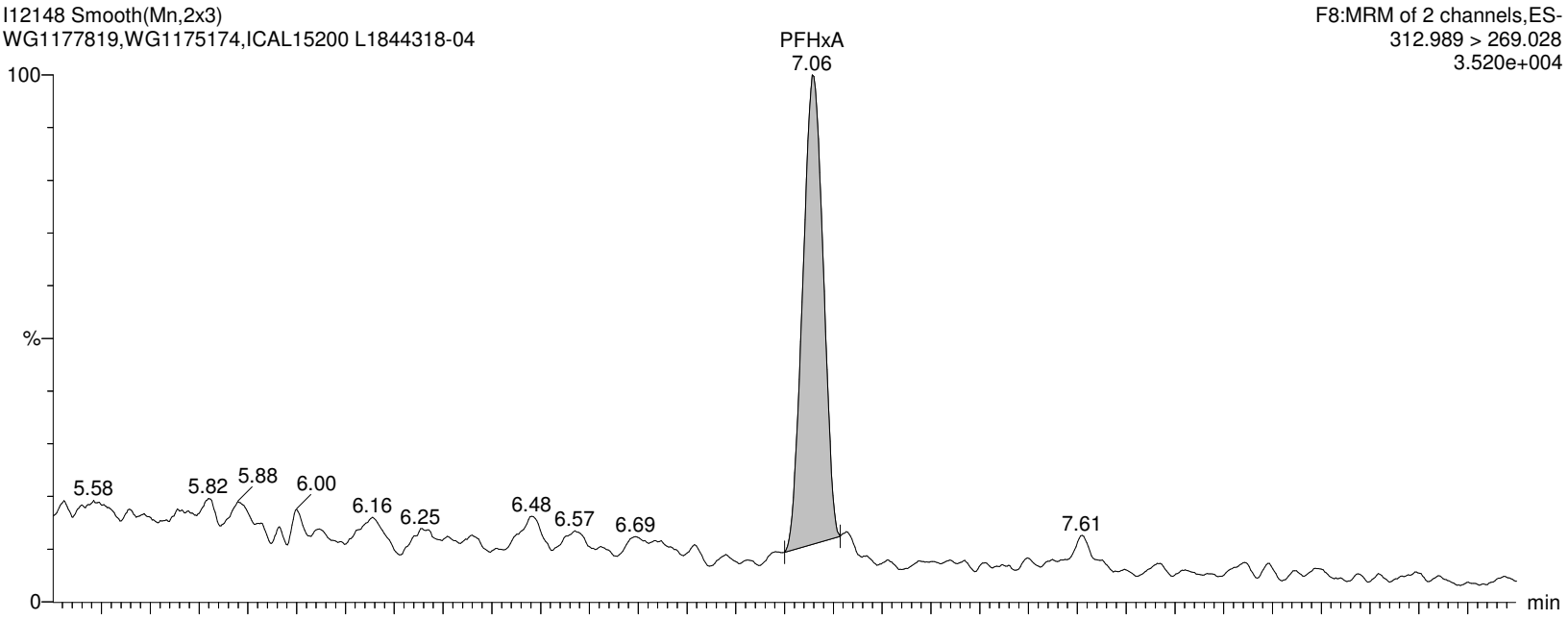

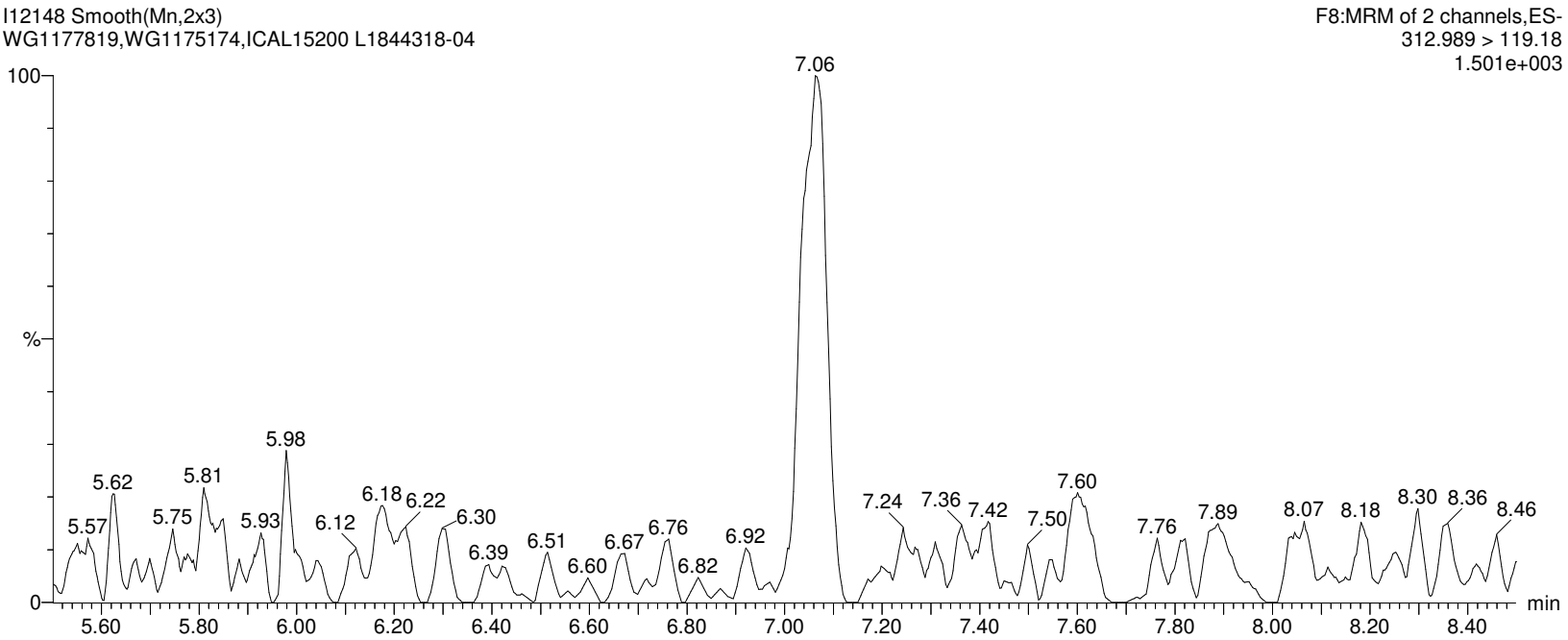

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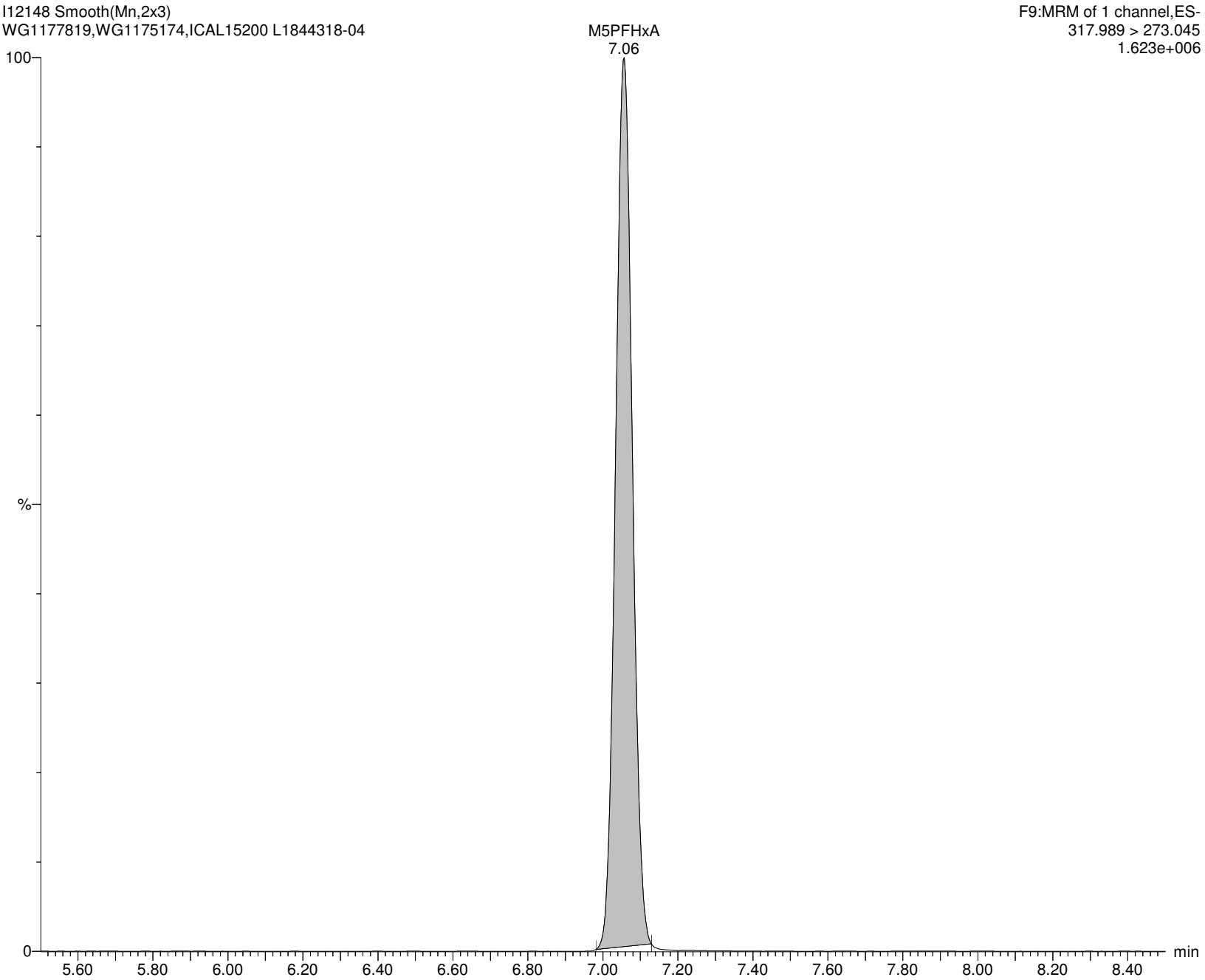

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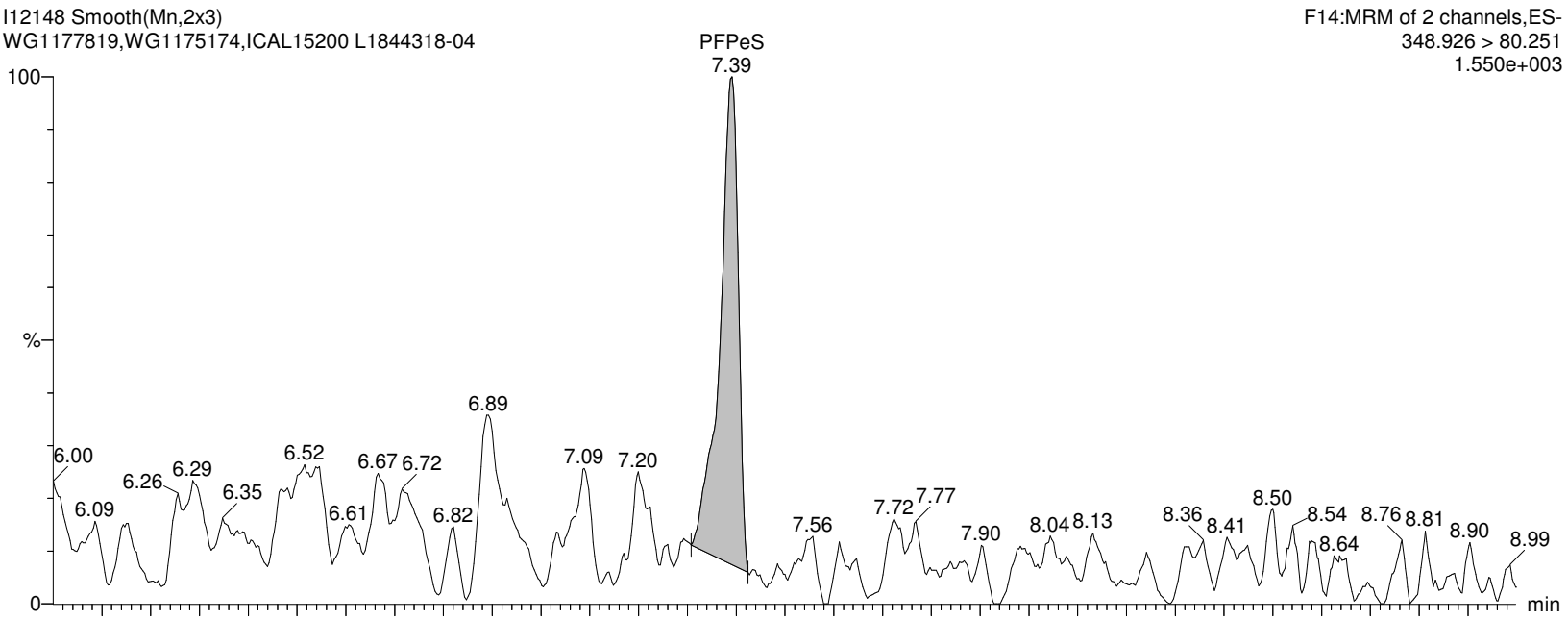

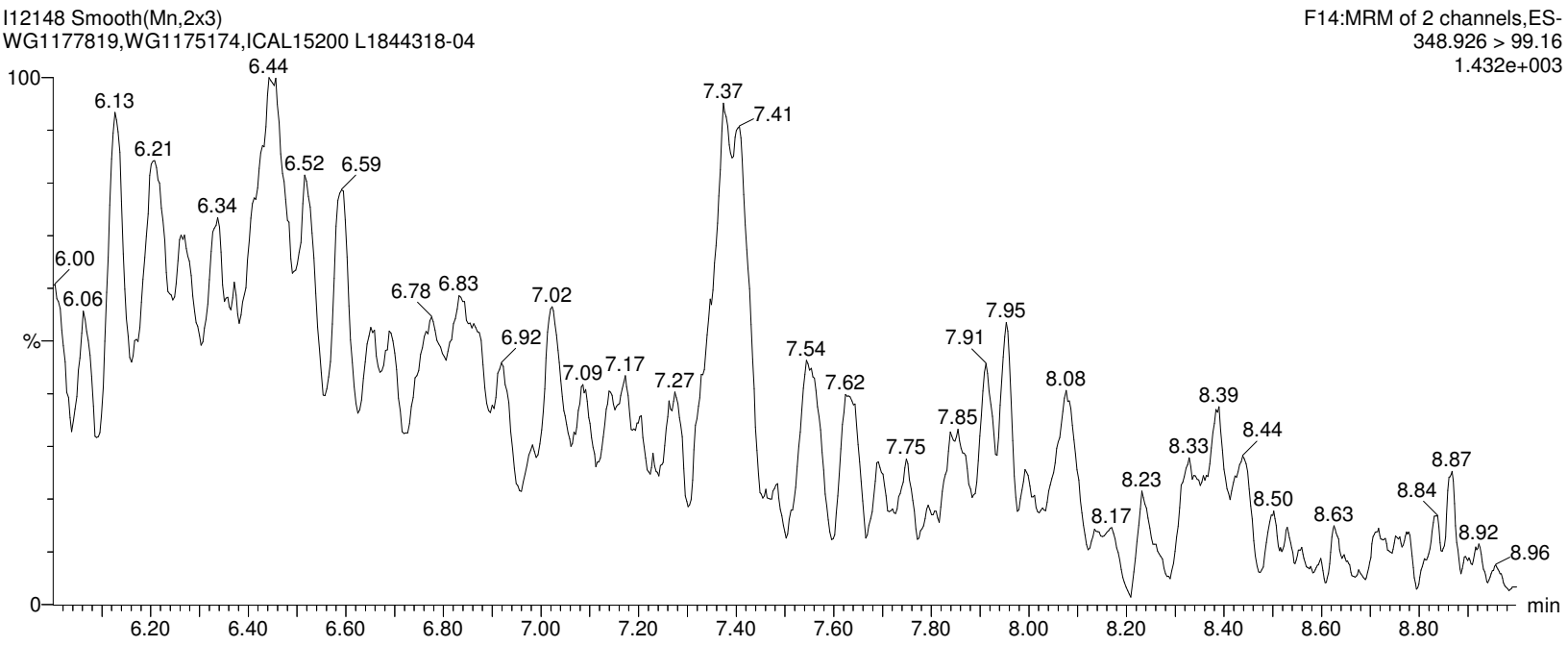

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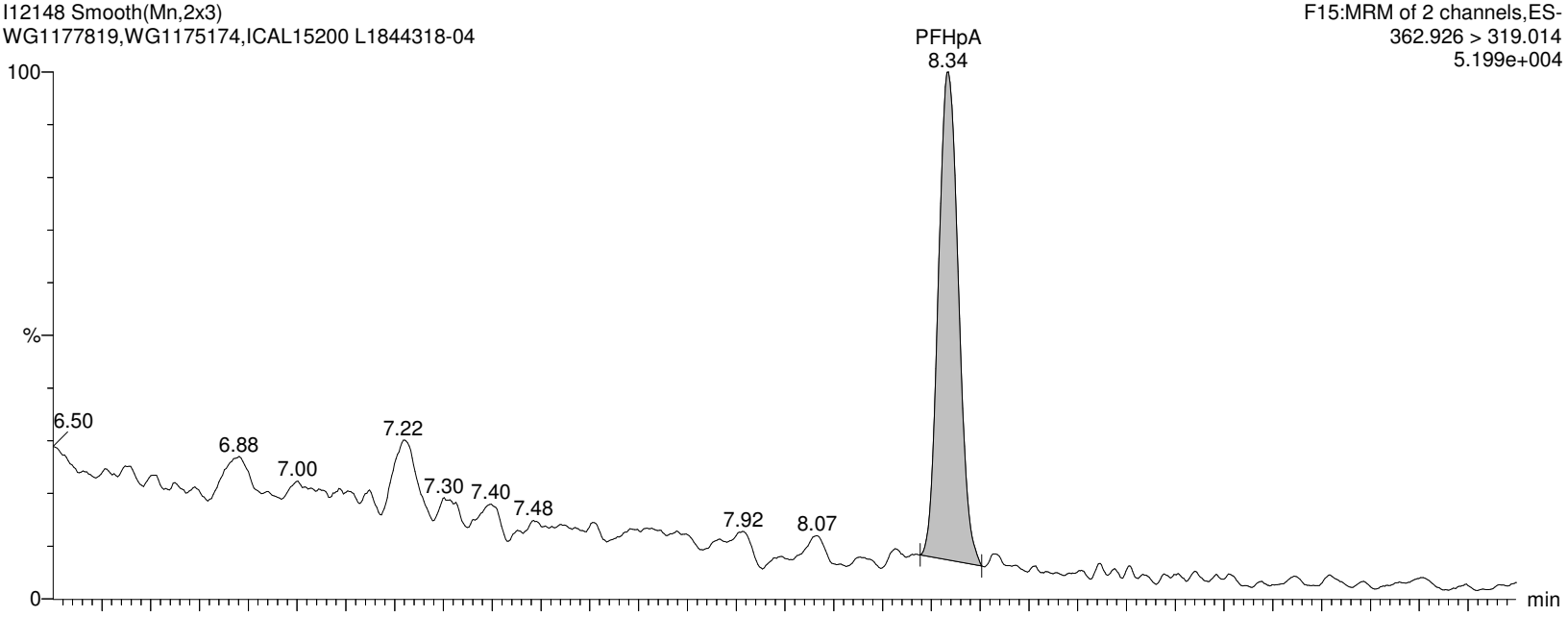

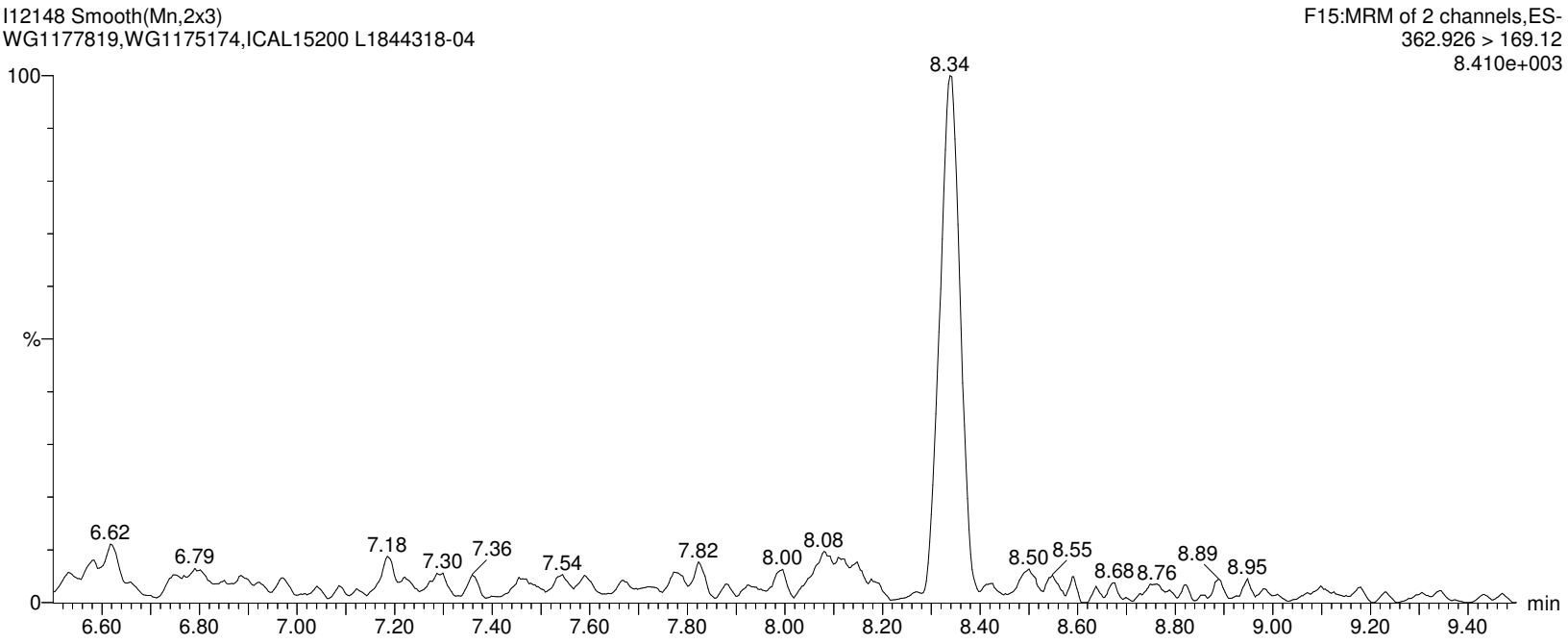

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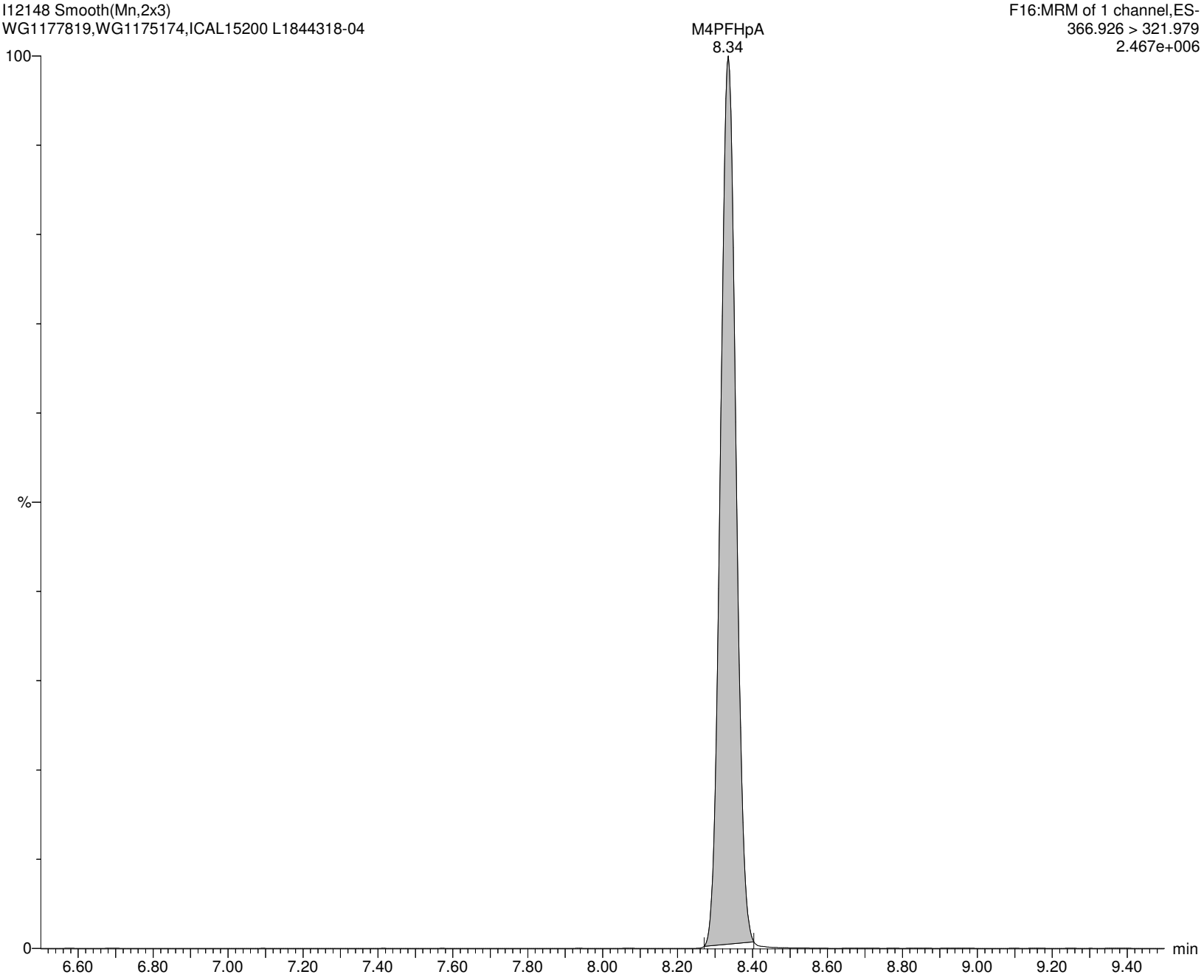

all concentration units in (ng/mL)

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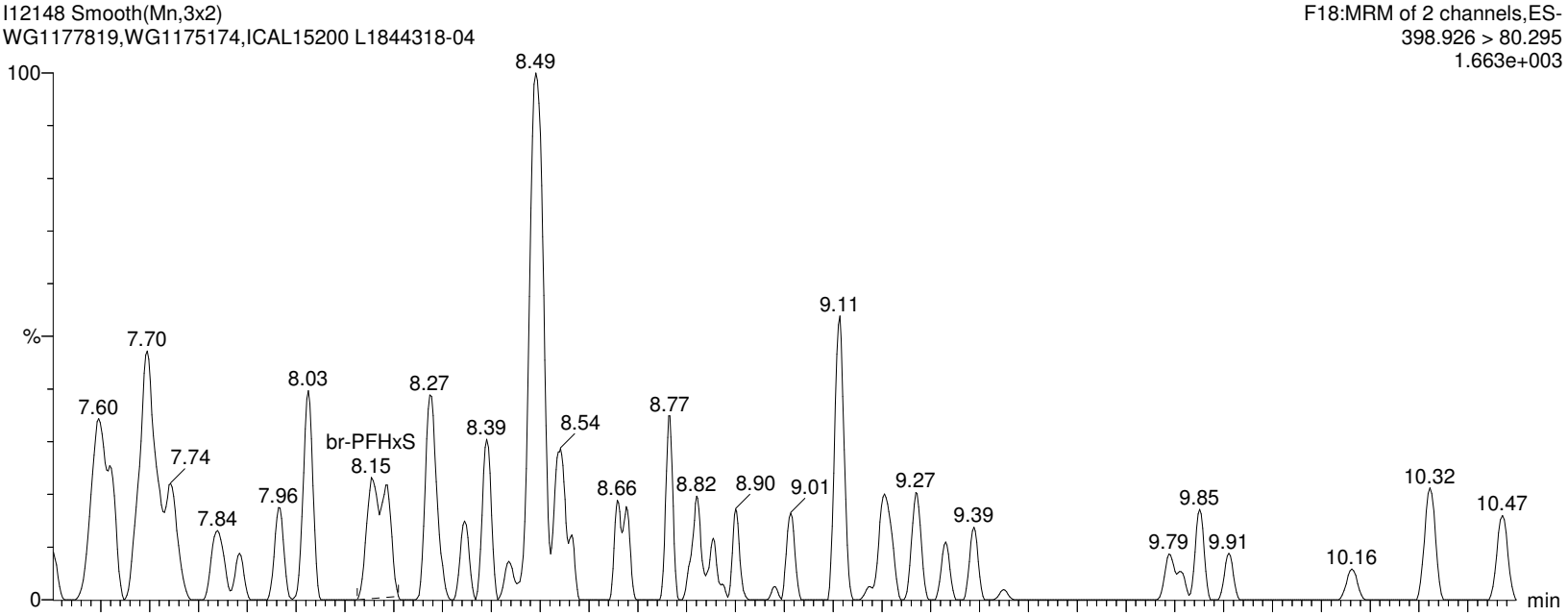

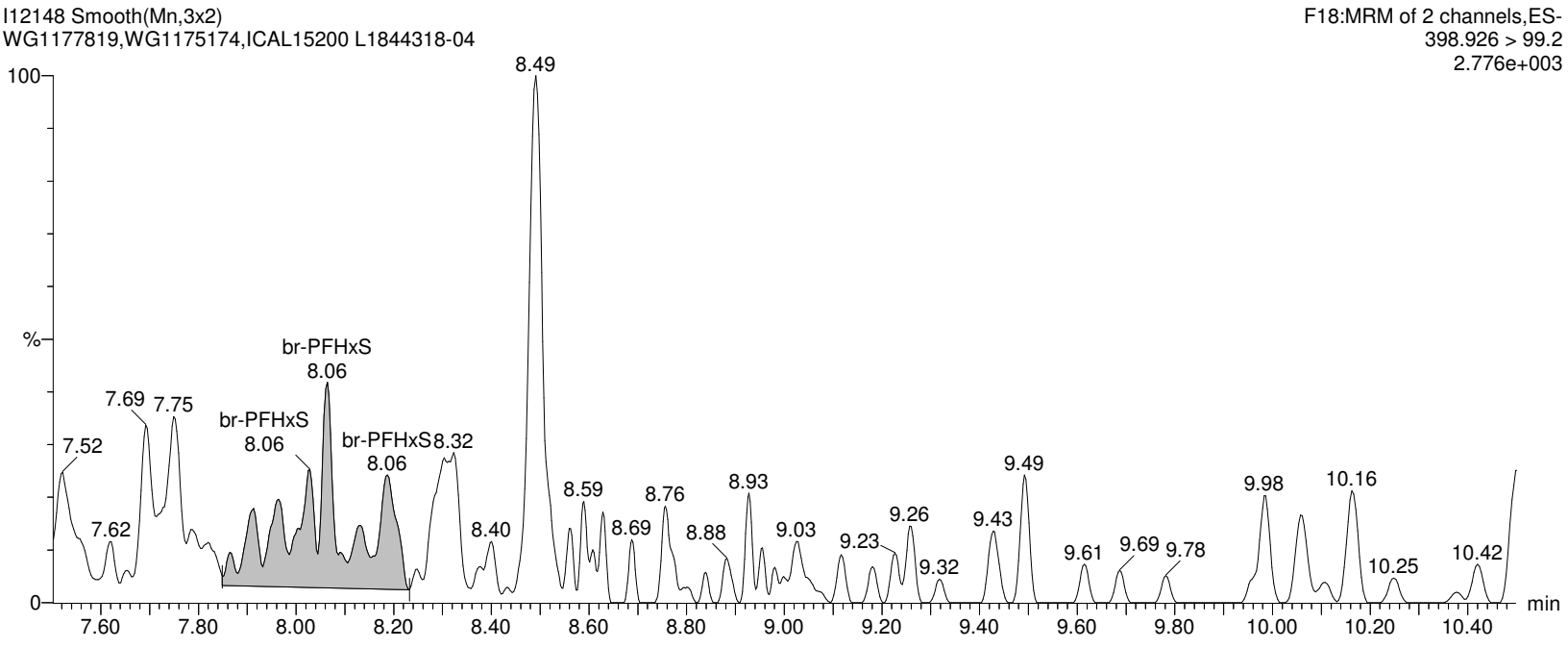

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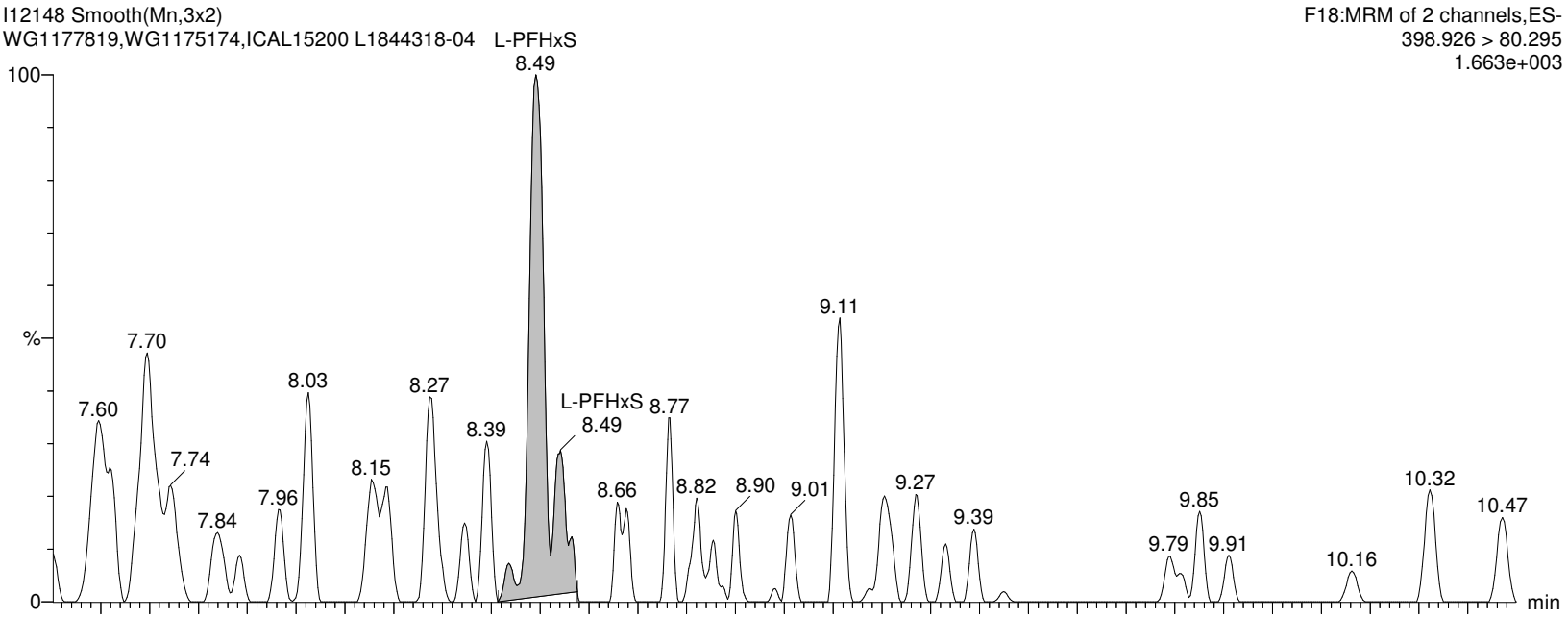

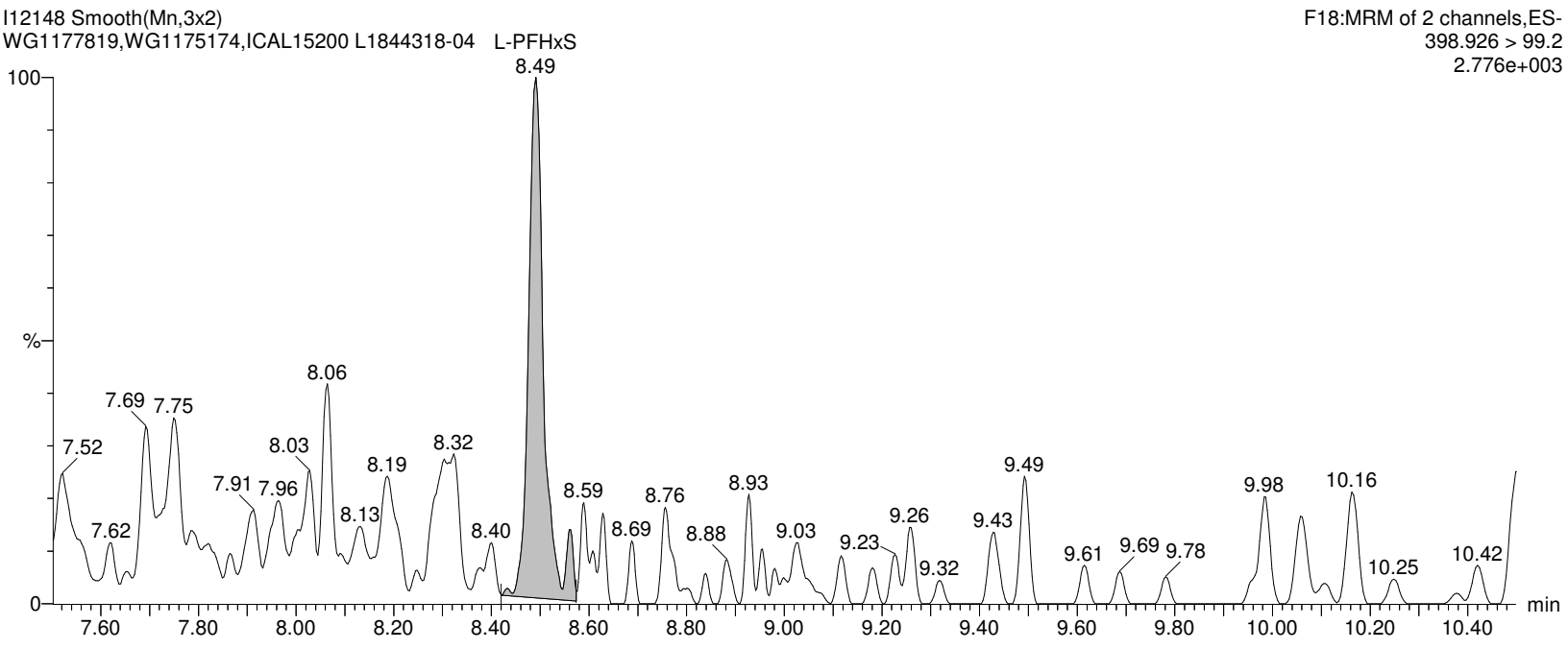

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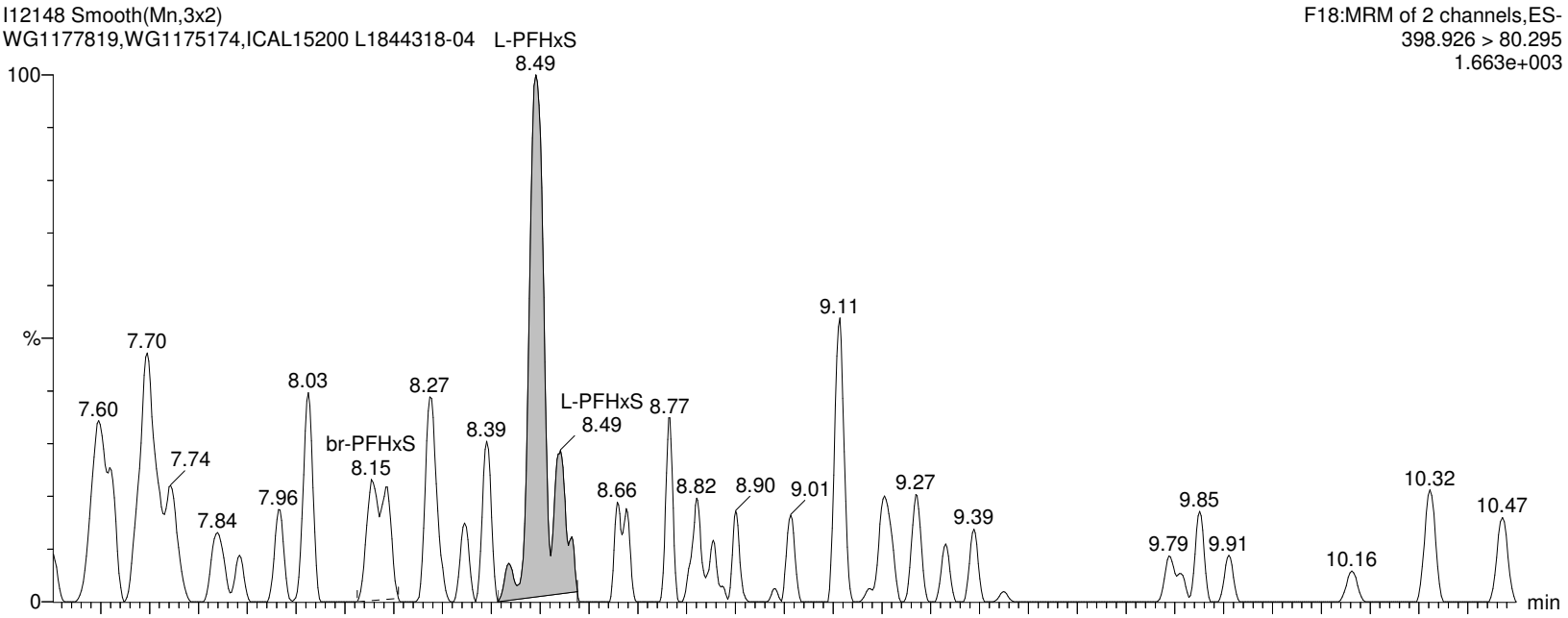

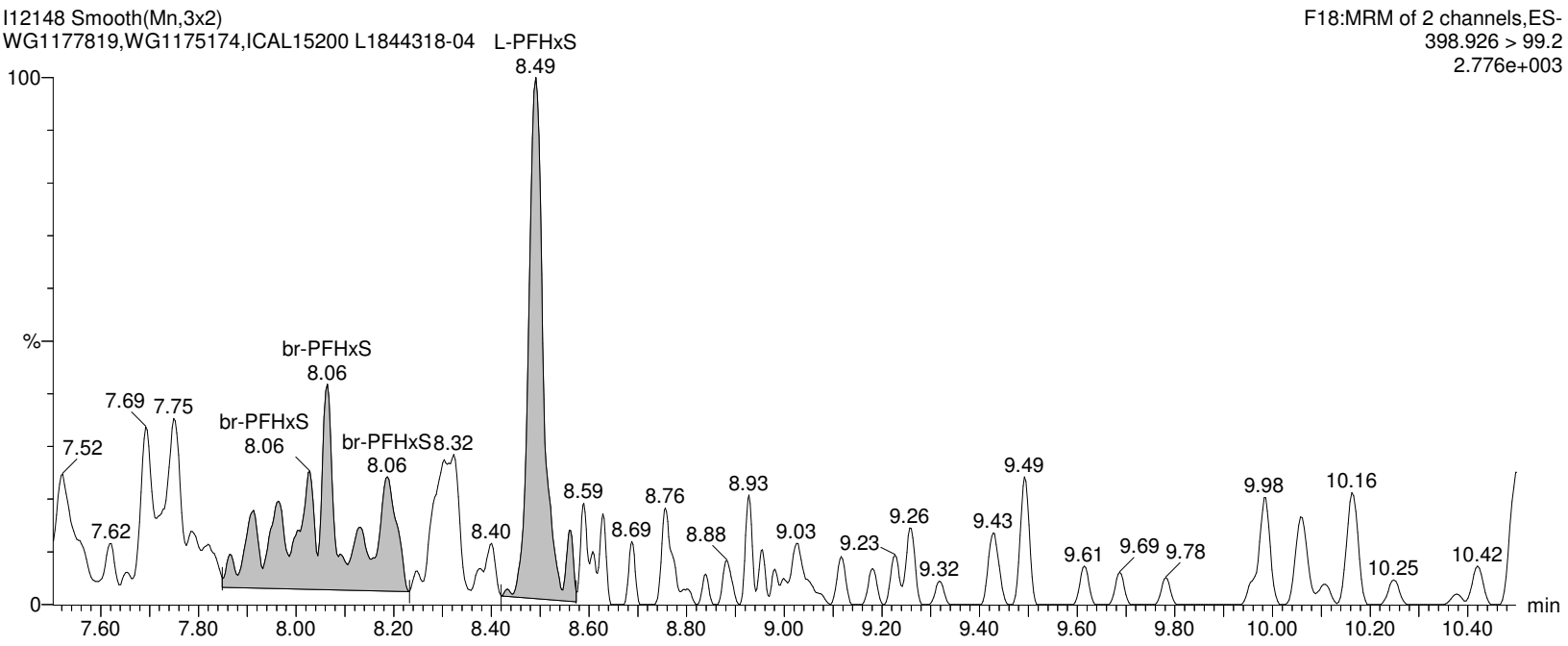

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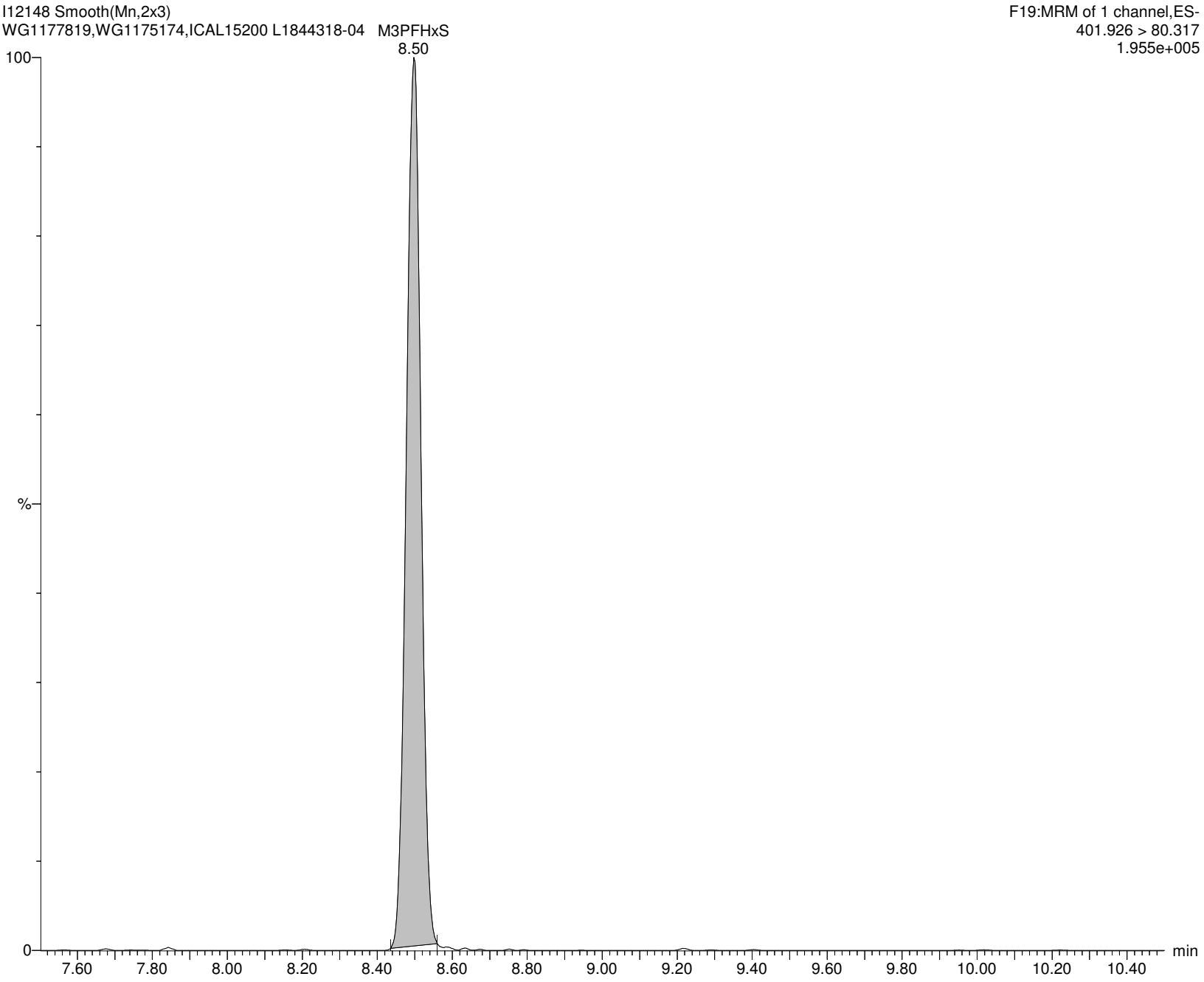

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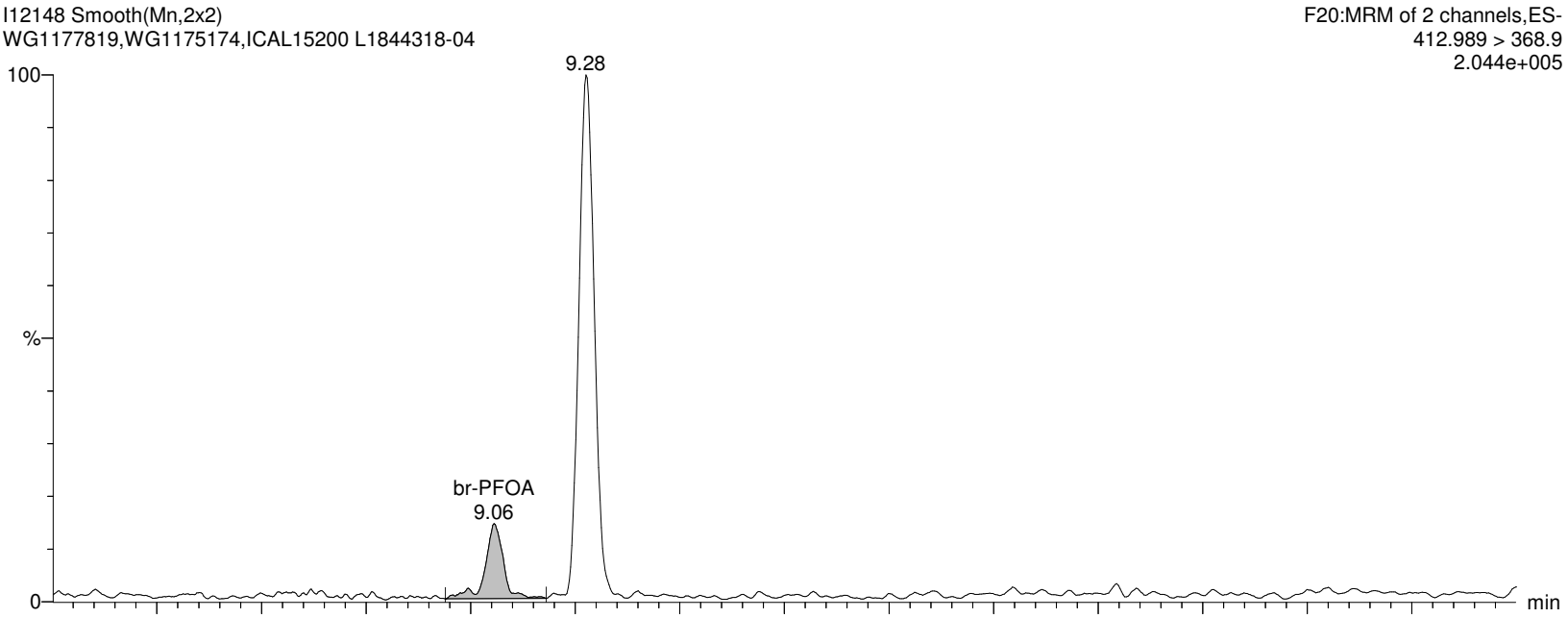

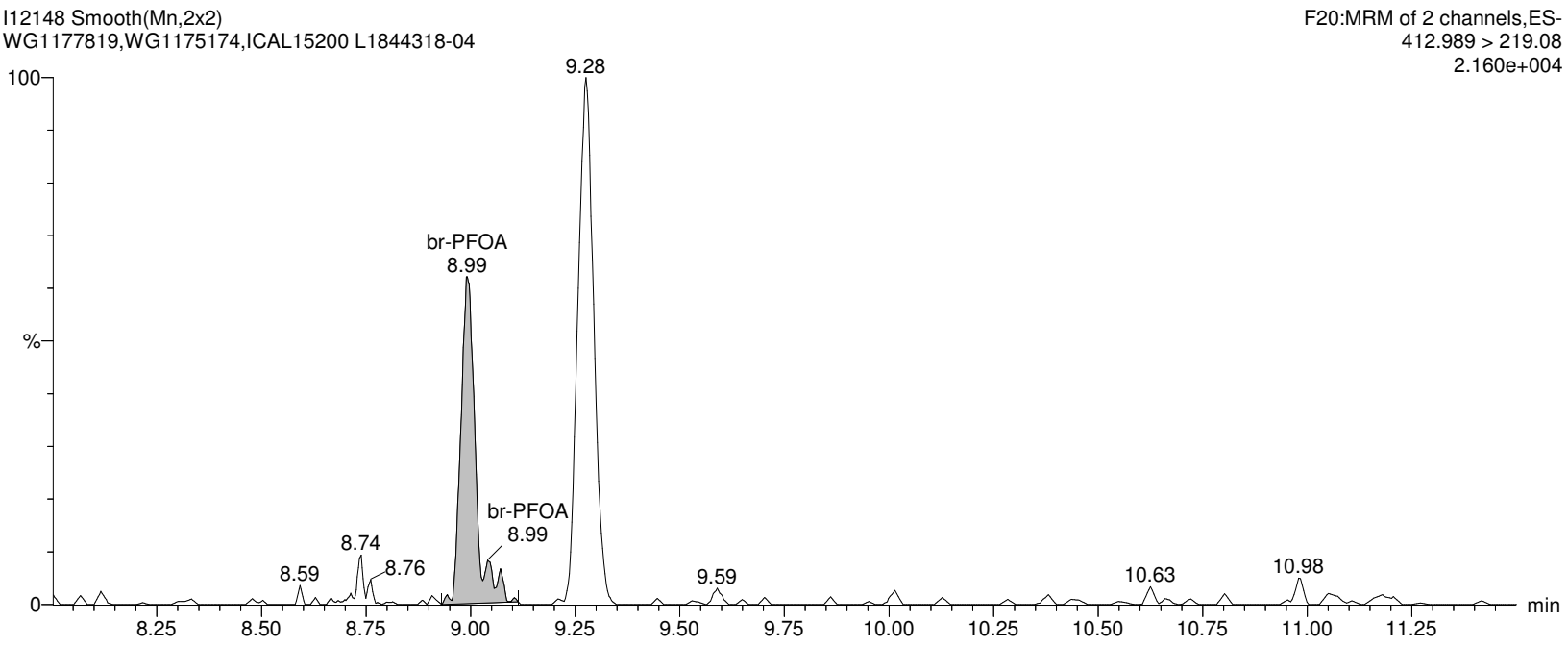

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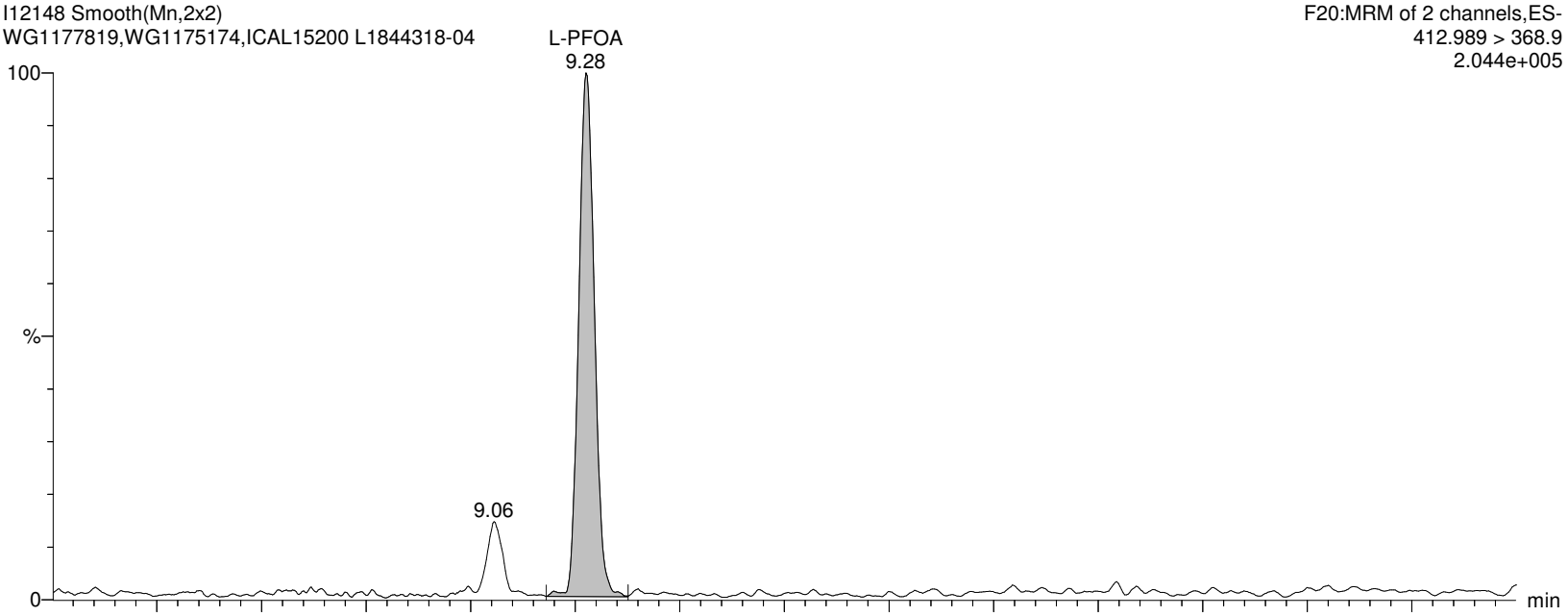

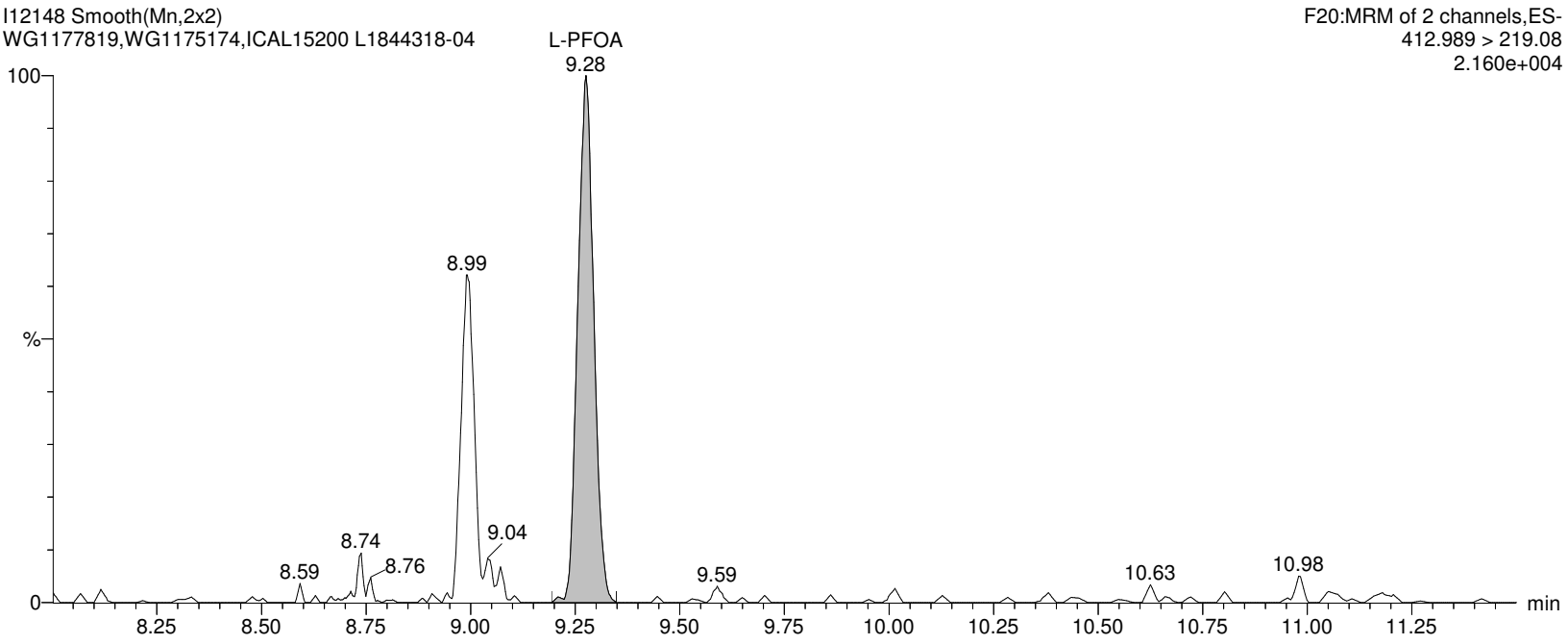

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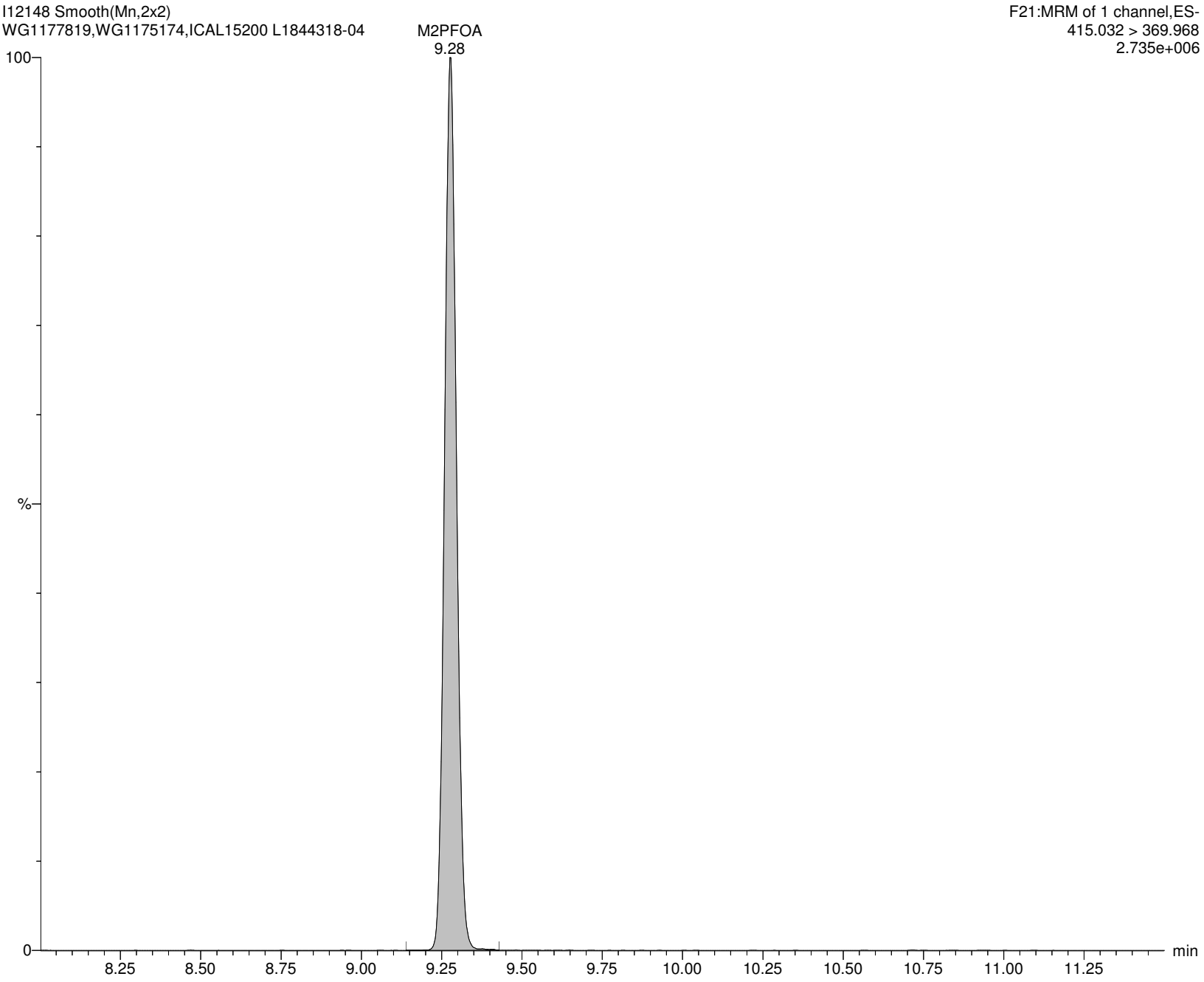

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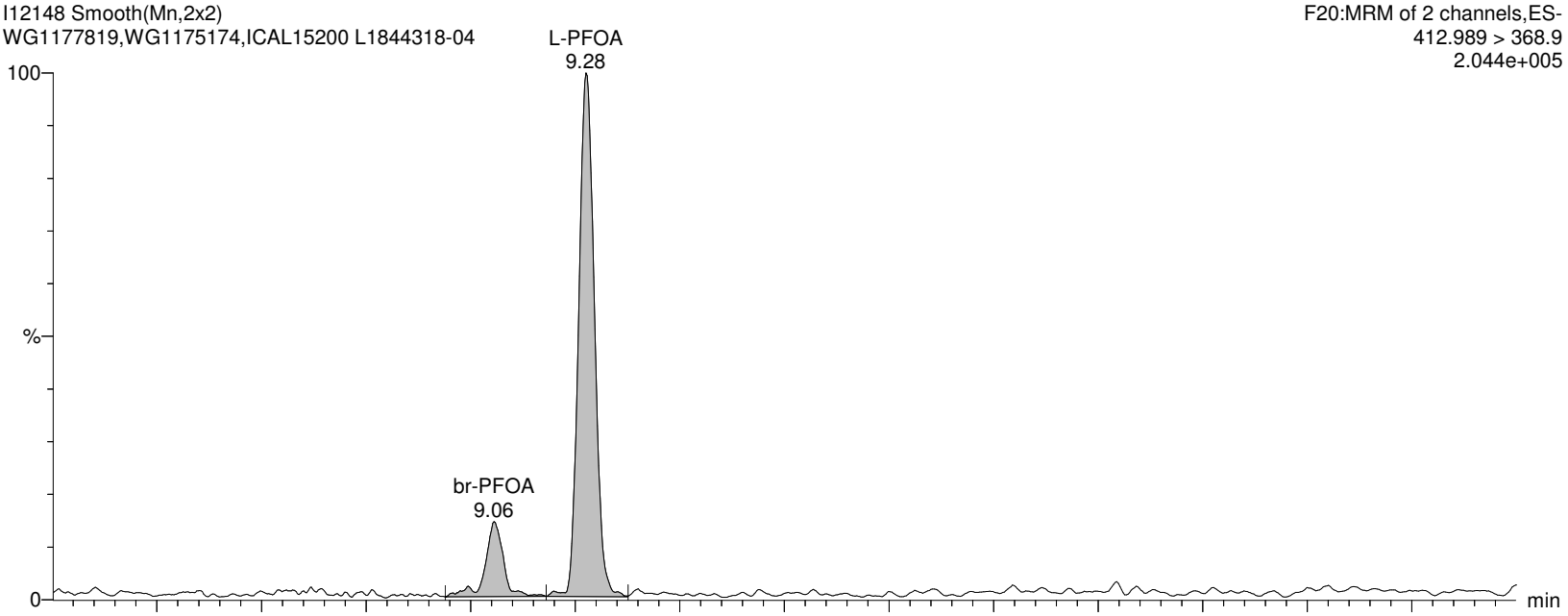

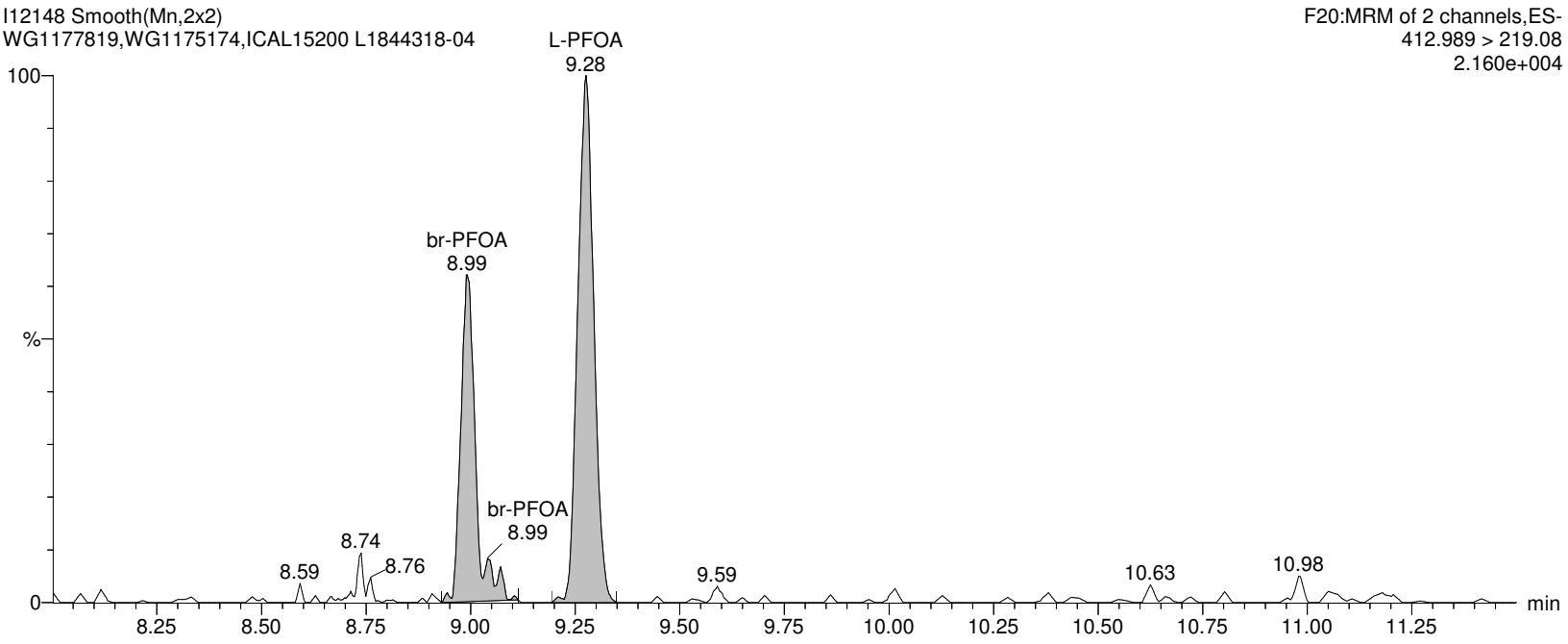

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:46 Eastern Standard Time

Name: I12148
ID: L1844318-04
Date: 10-Nov-2018
Time: 05:45:36
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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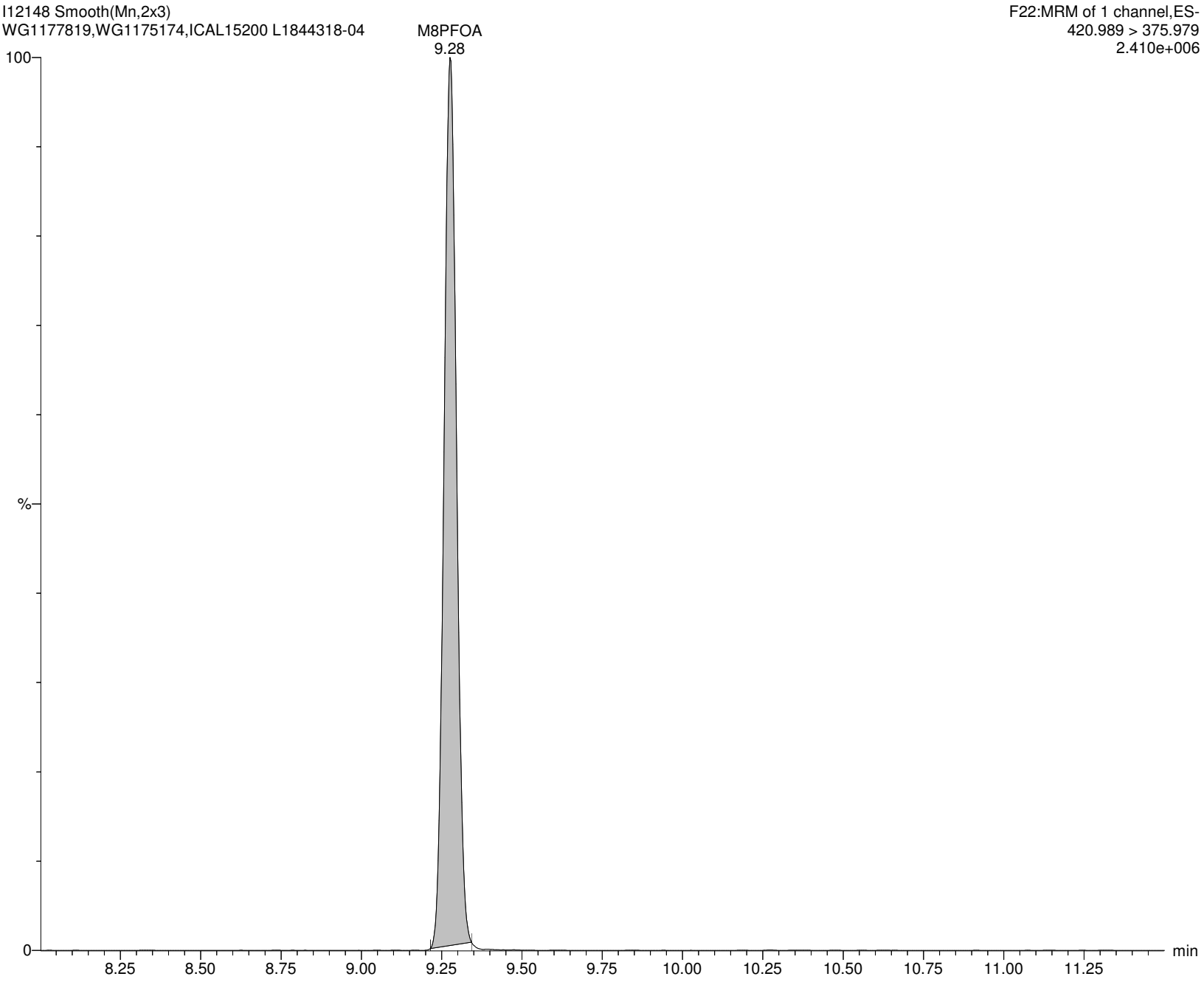
M8PFOA



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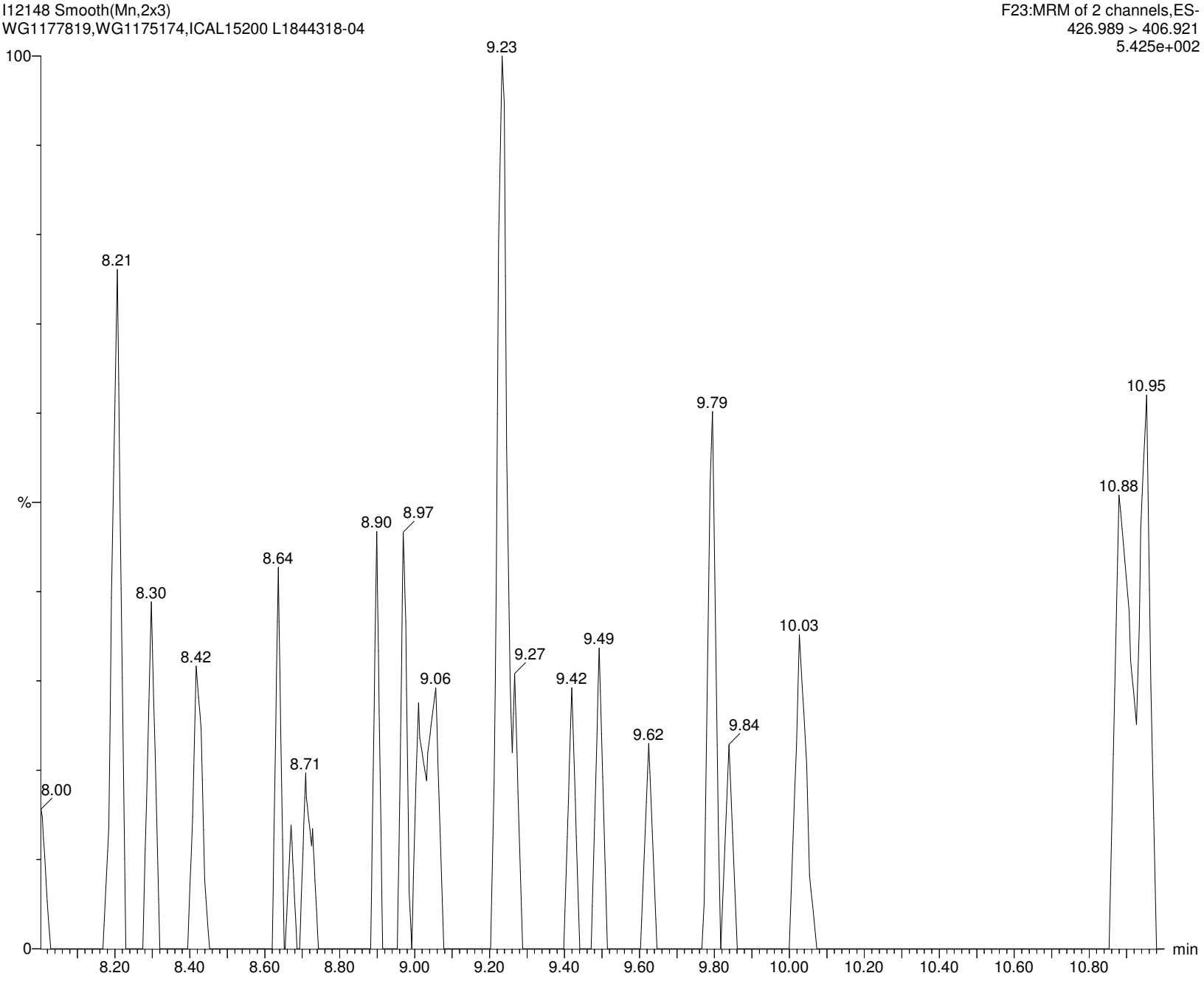
6:2FTS



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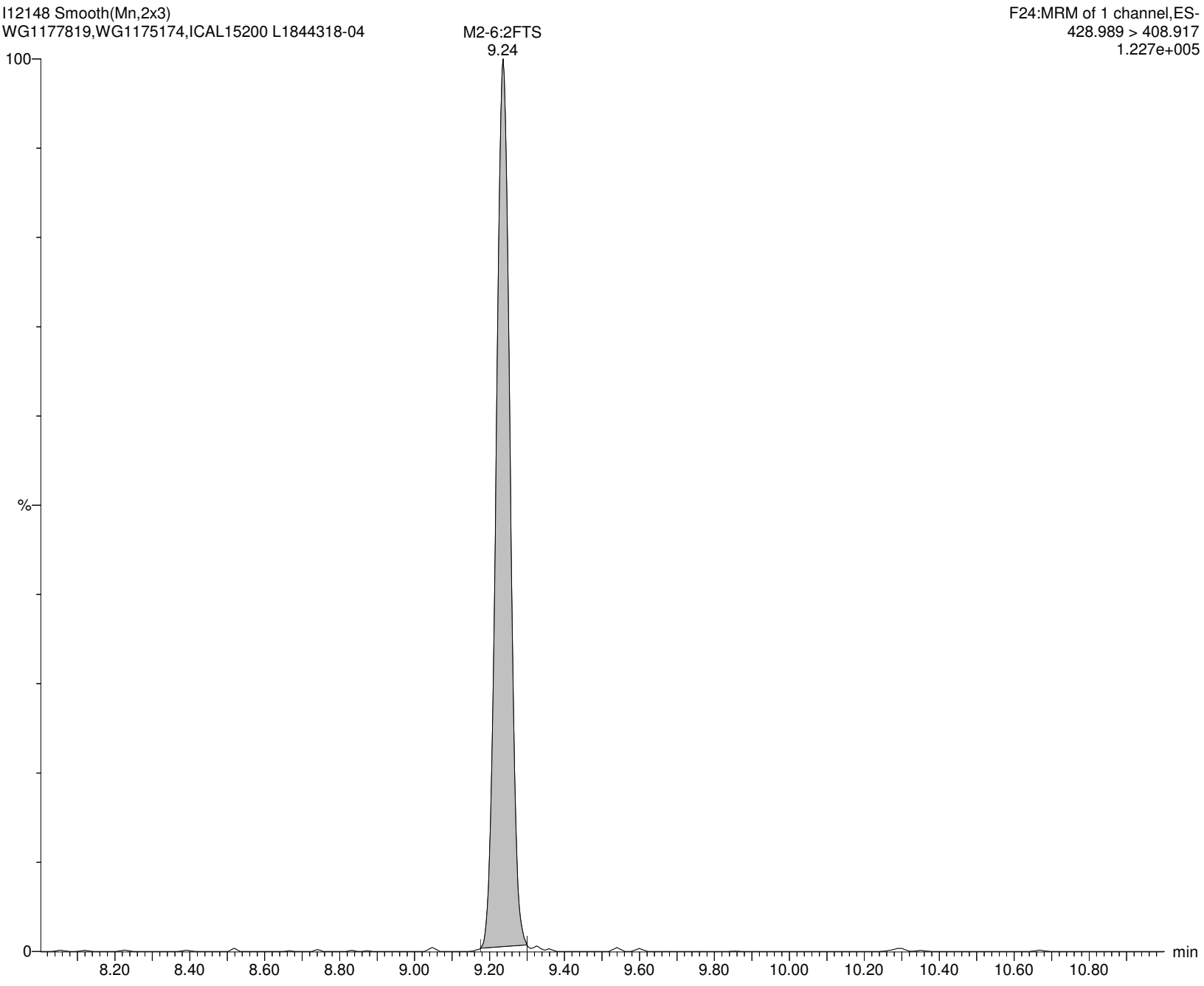
M2-6:2FTS



all concentration units in (ng/mL)

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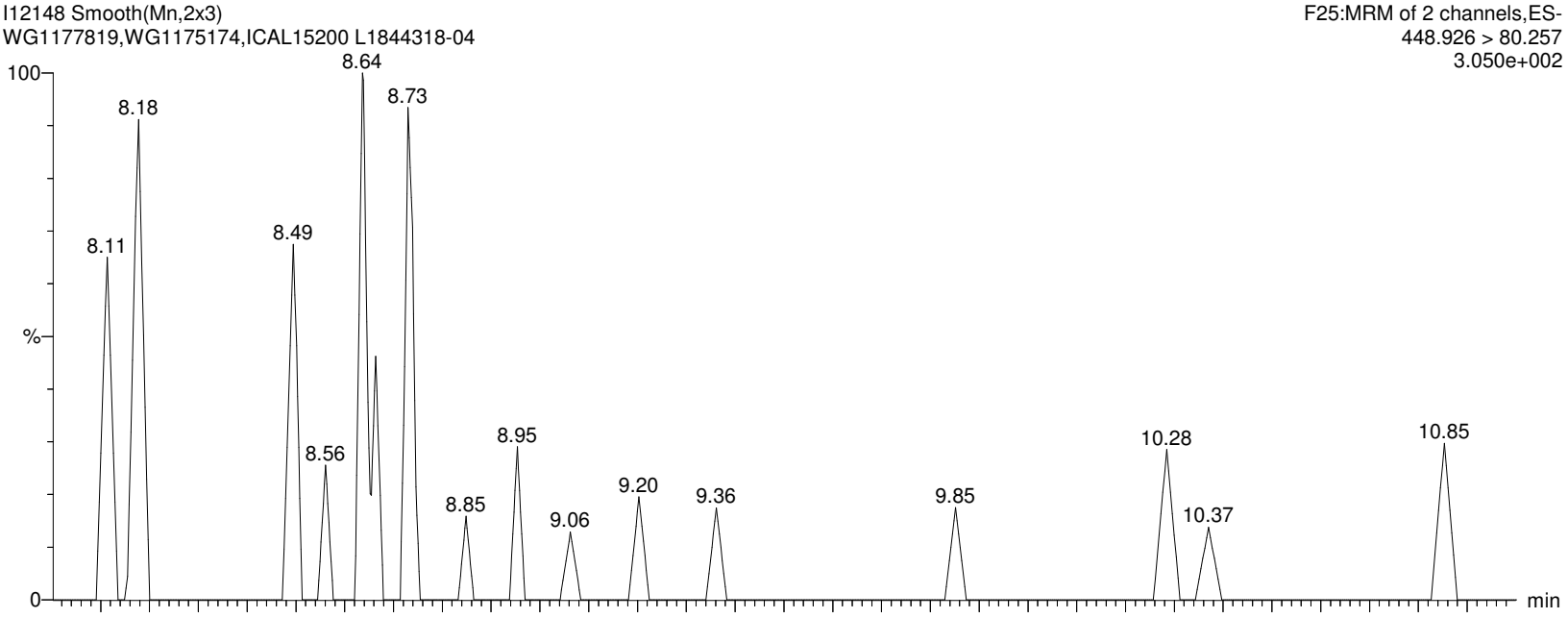

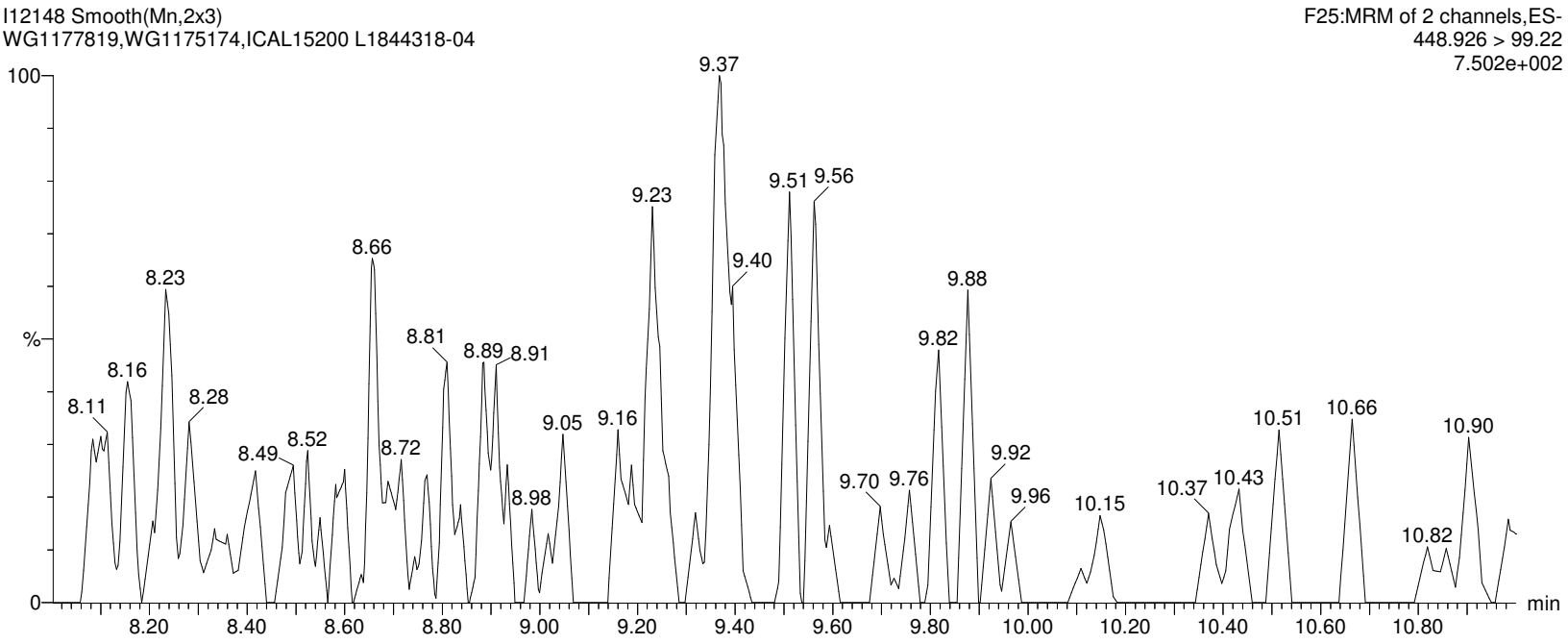

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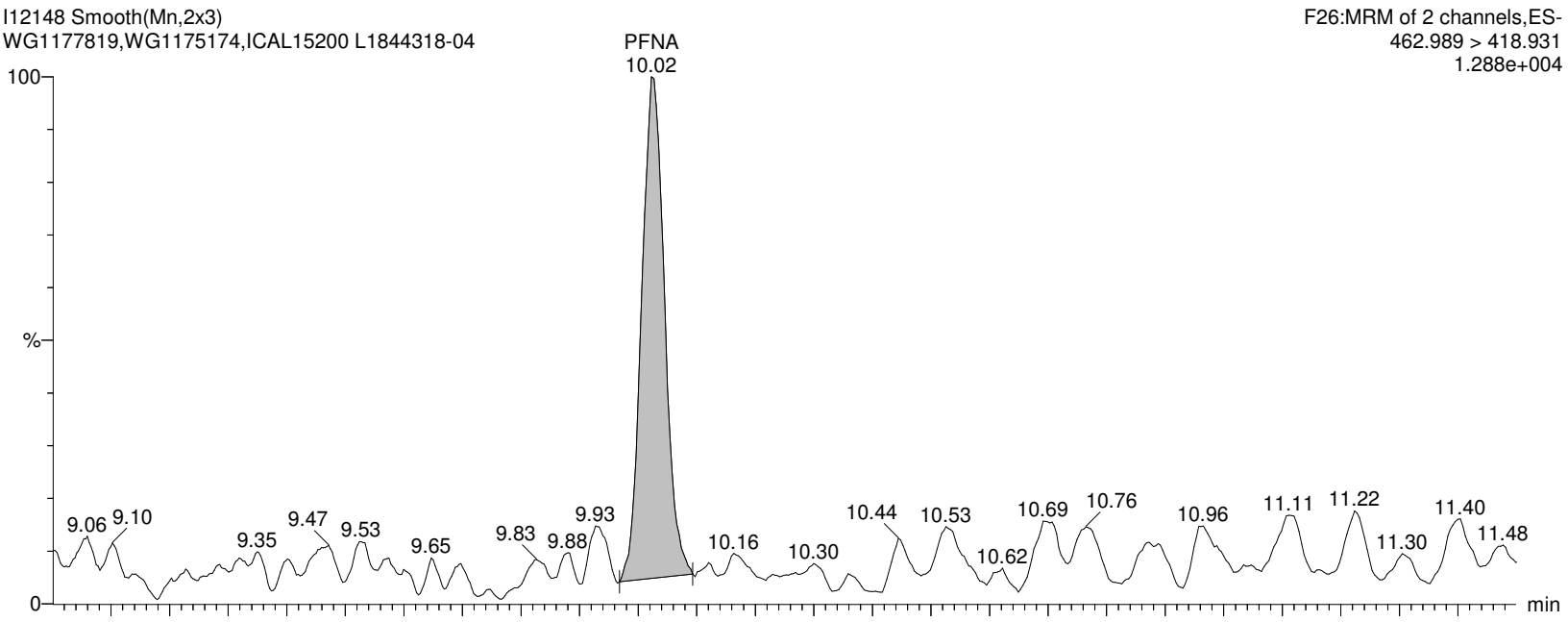

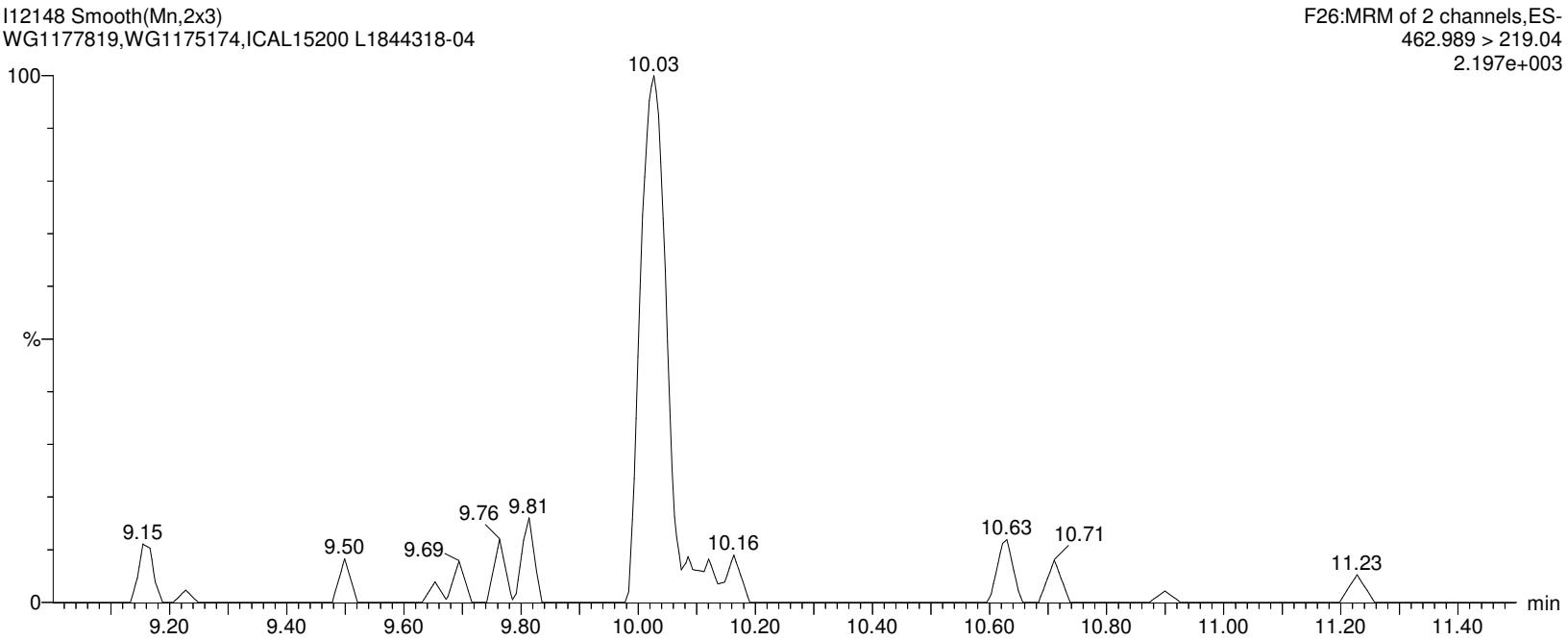

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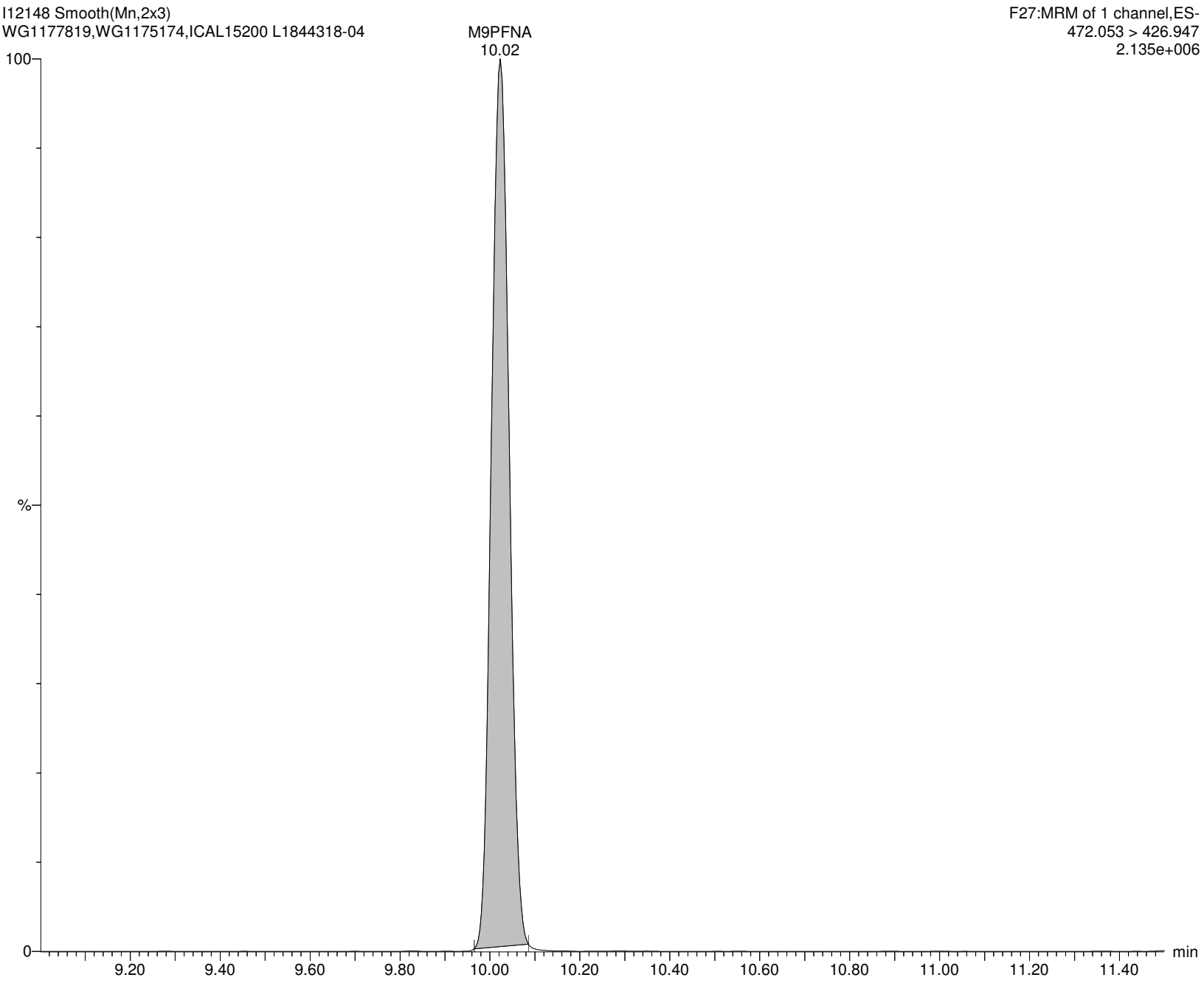

all concentration units in (ng/mL)

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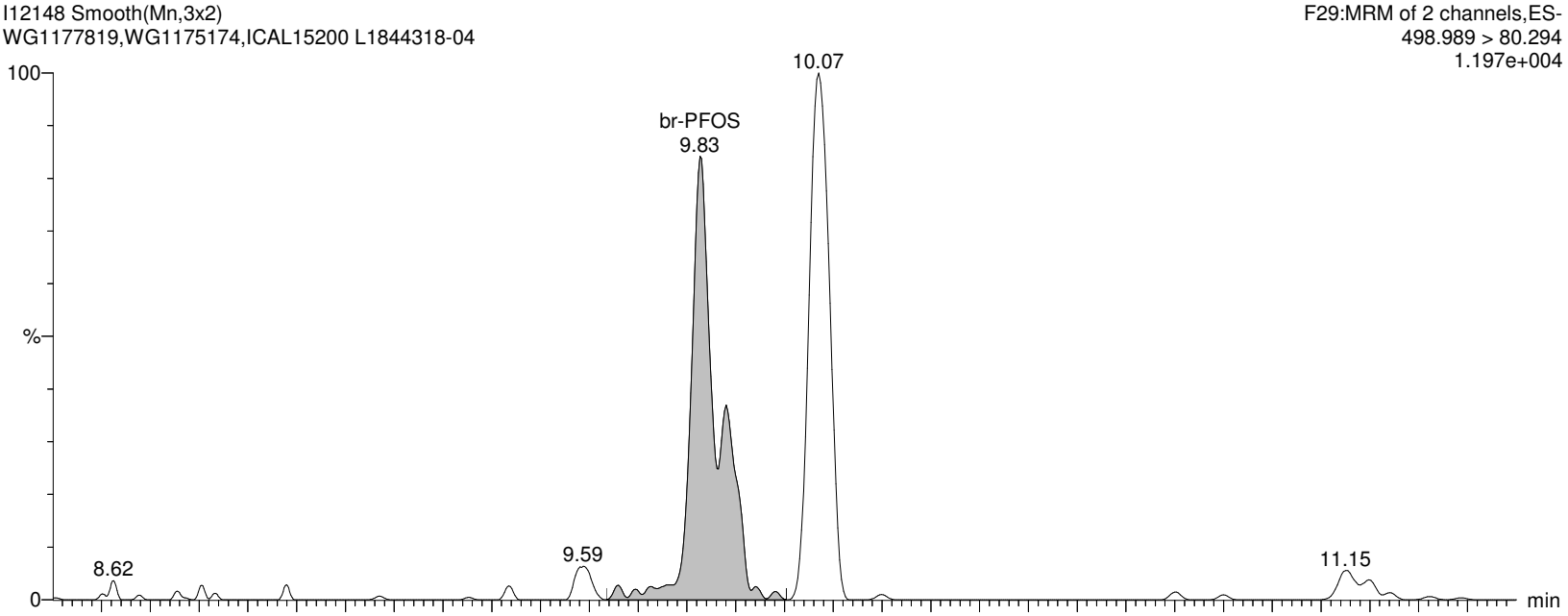

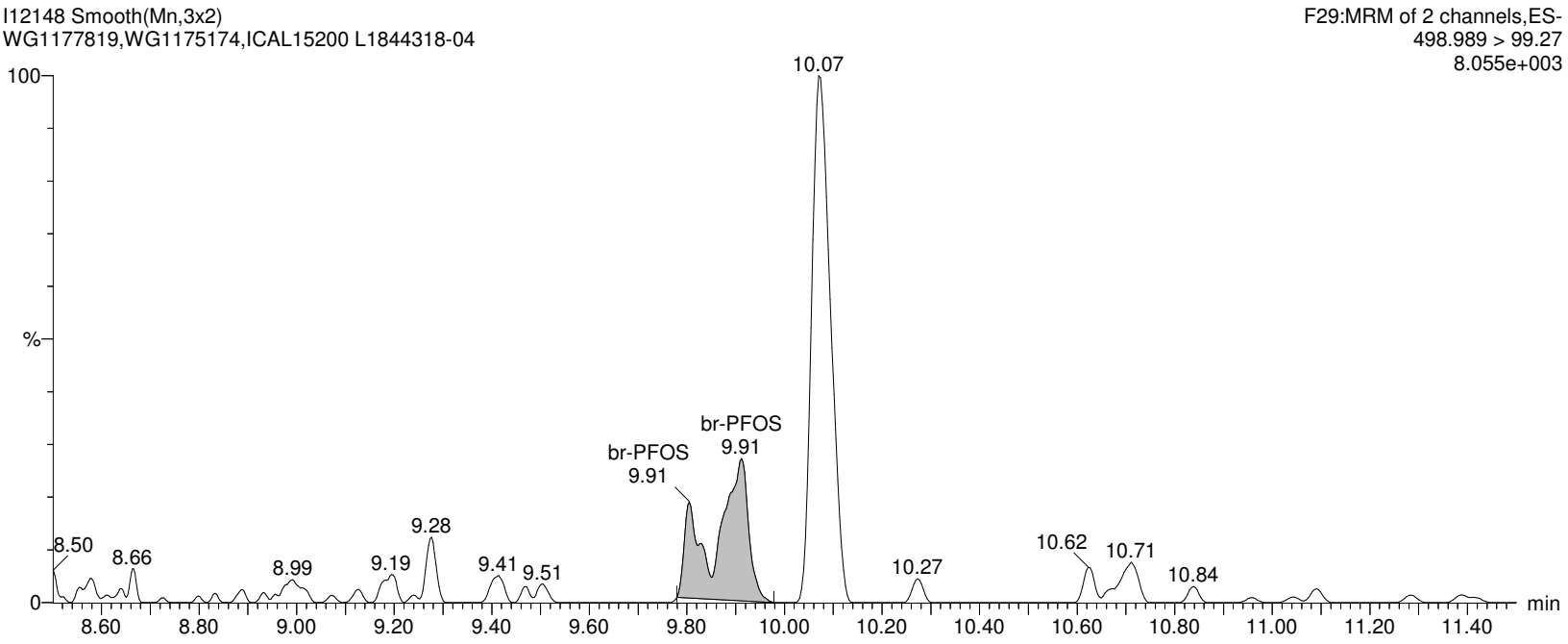

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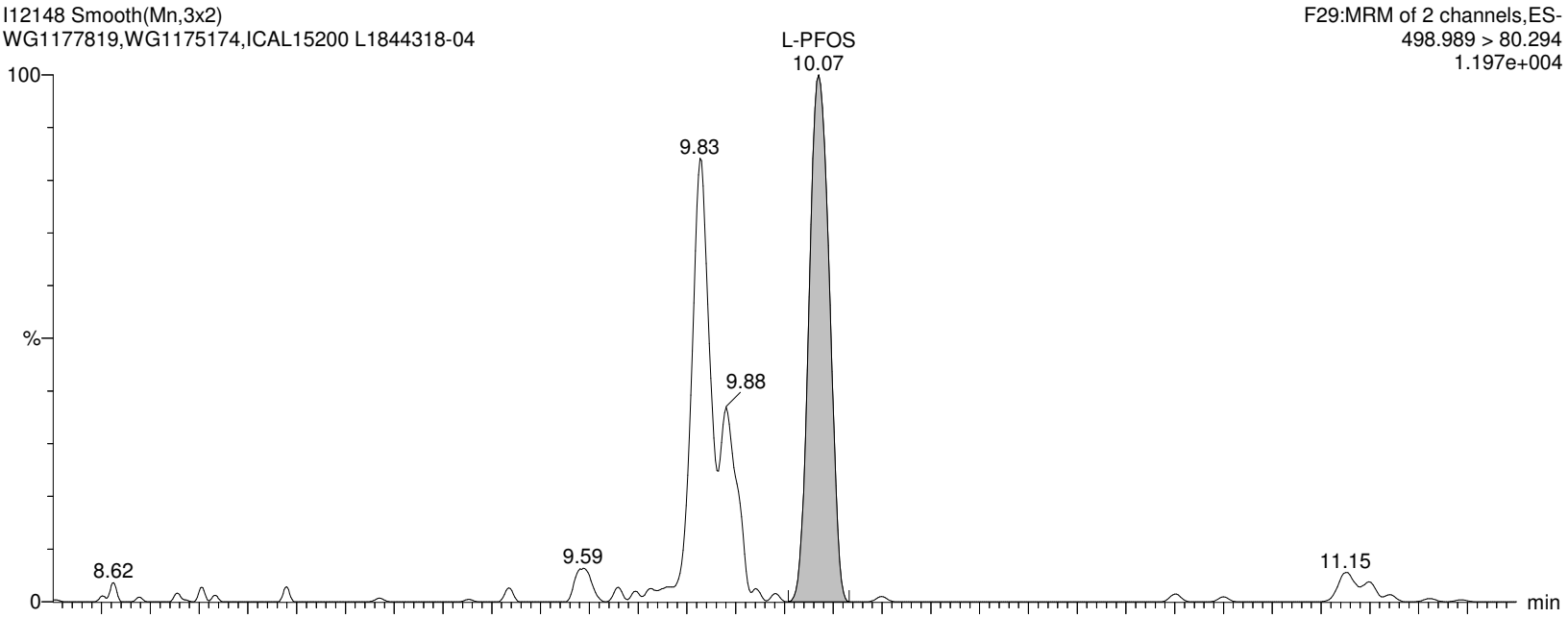
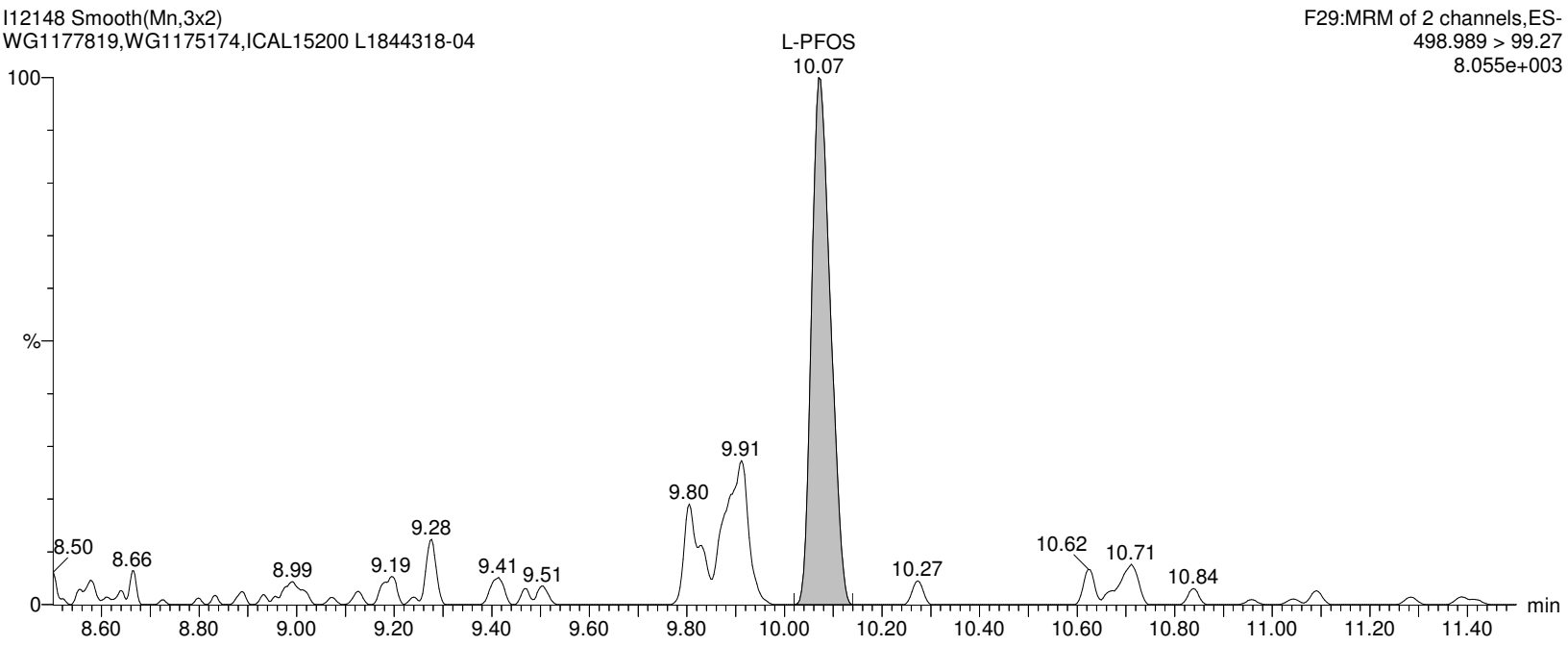
L-PFOS





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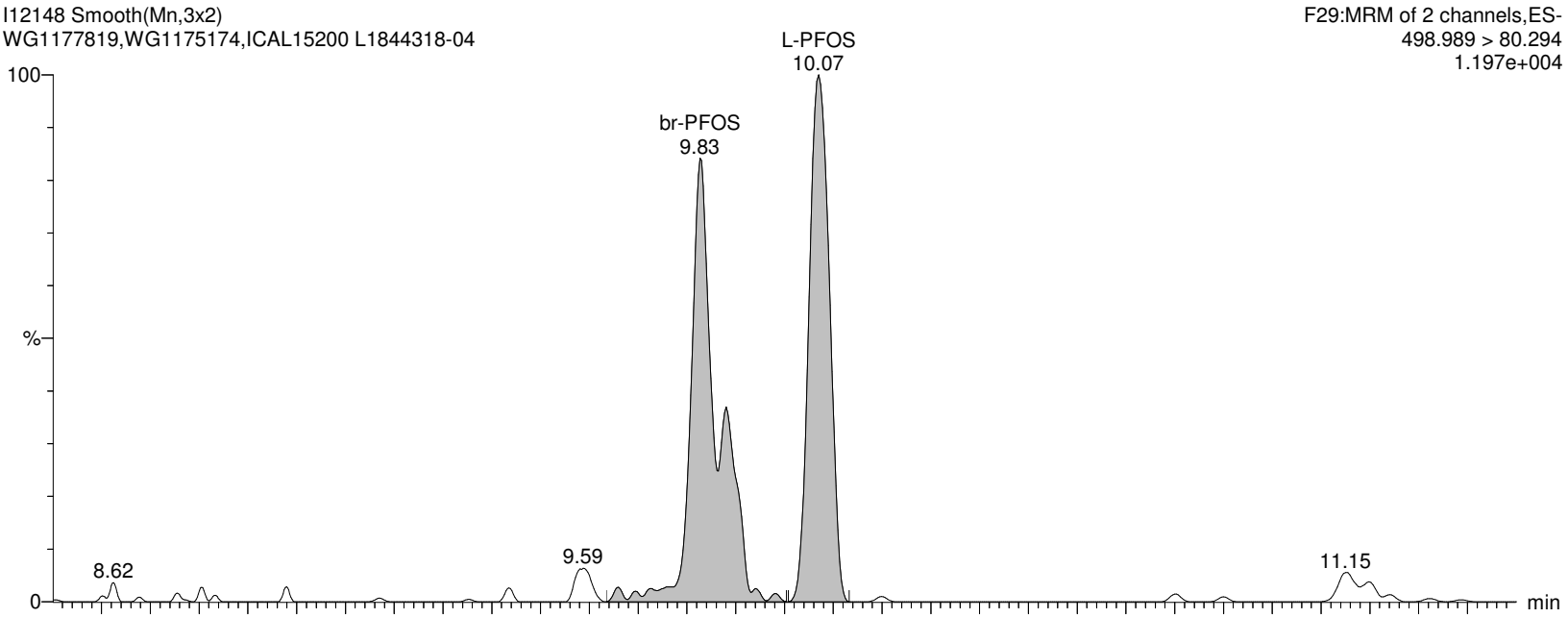

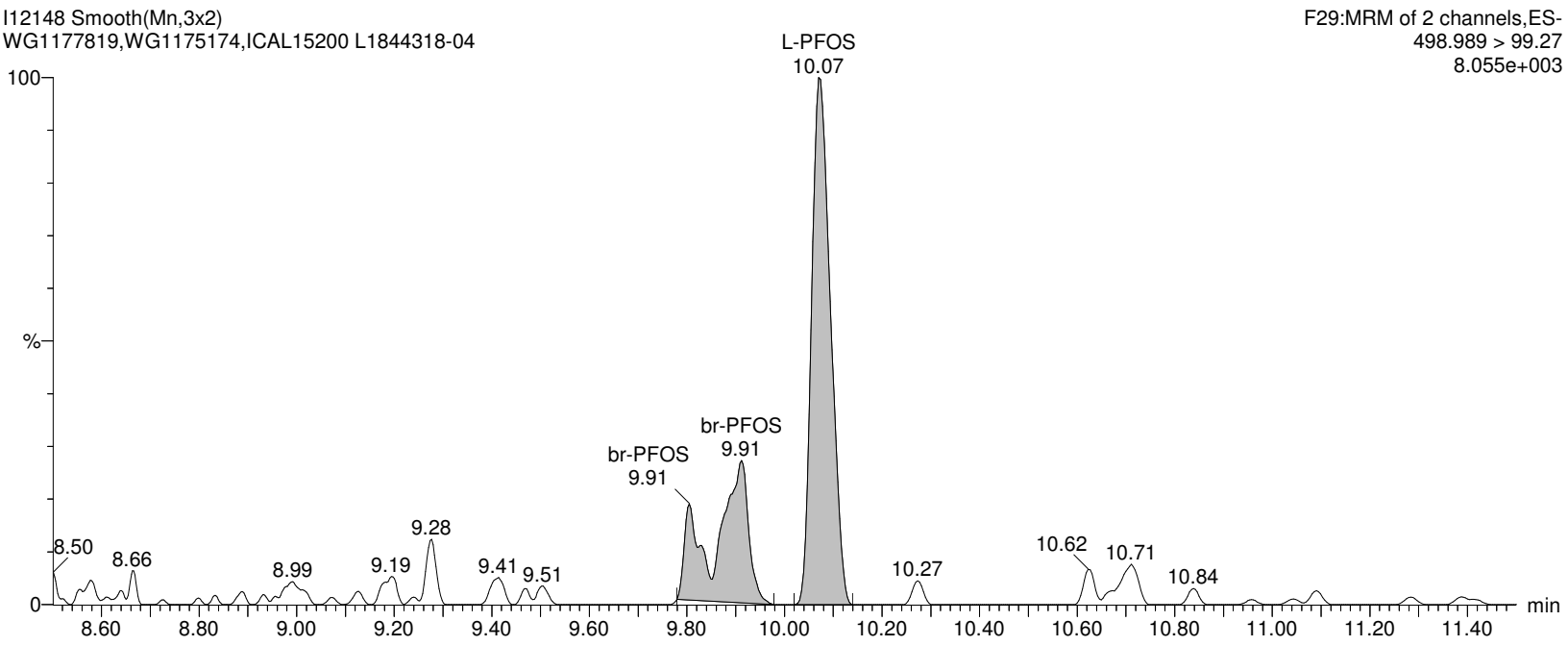

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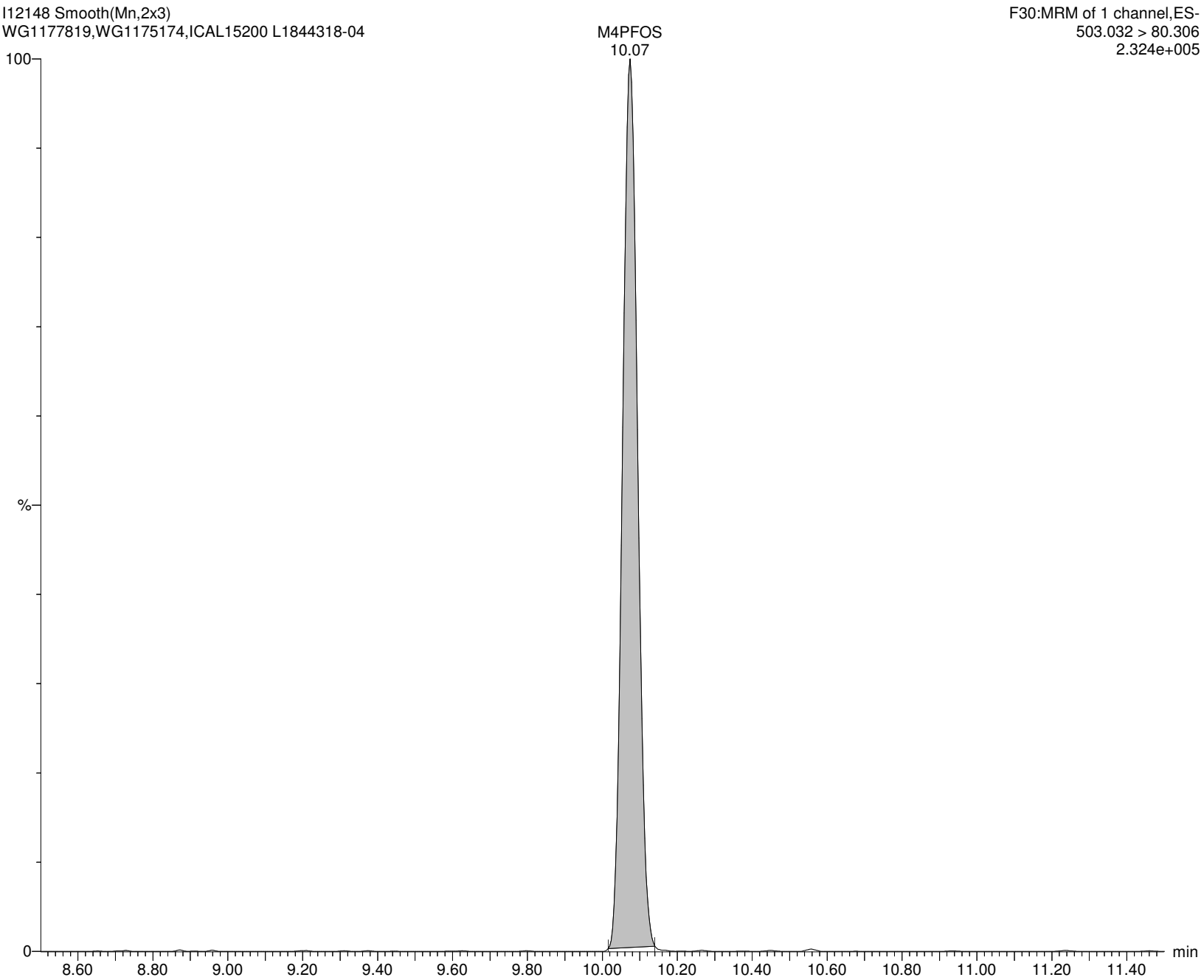

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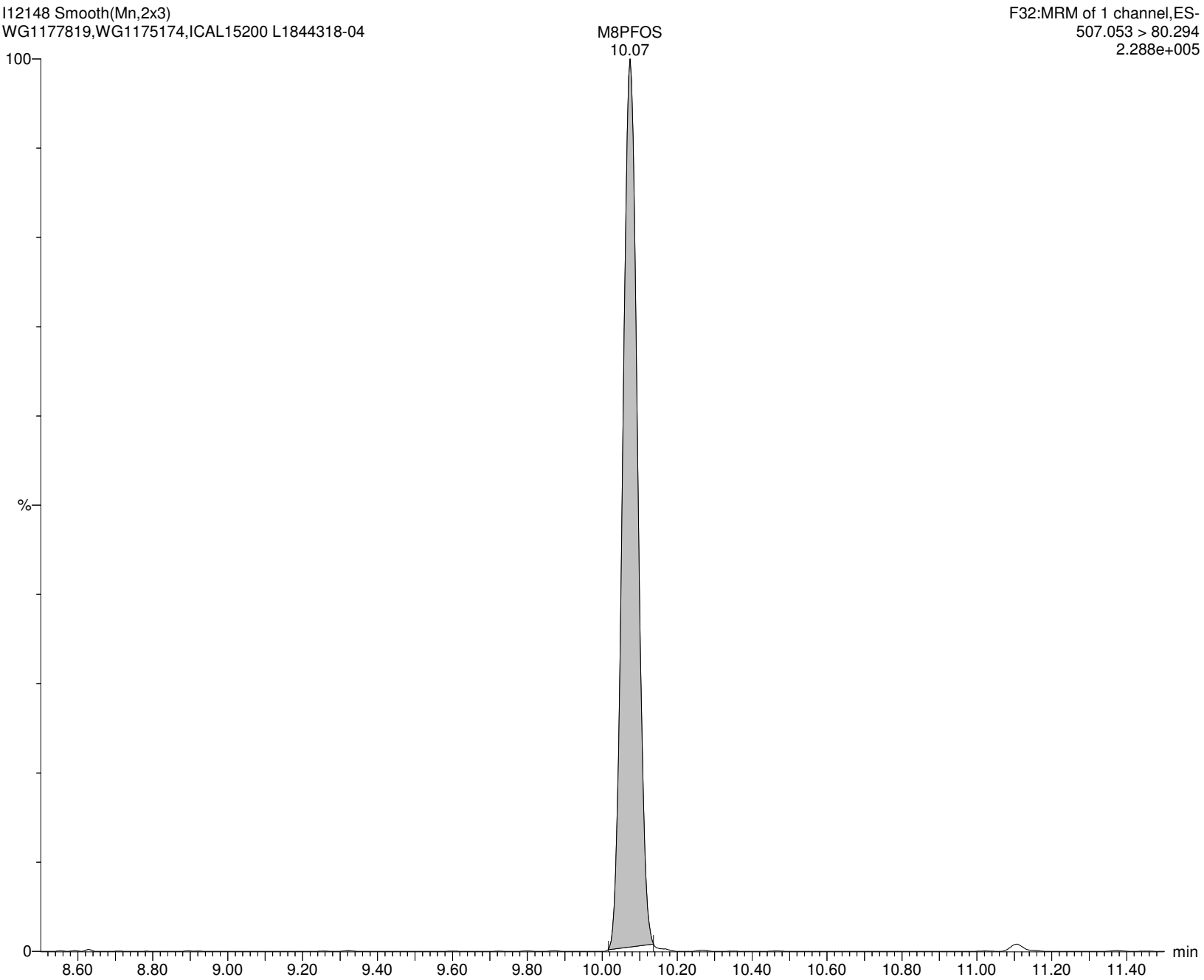
M8PFOS



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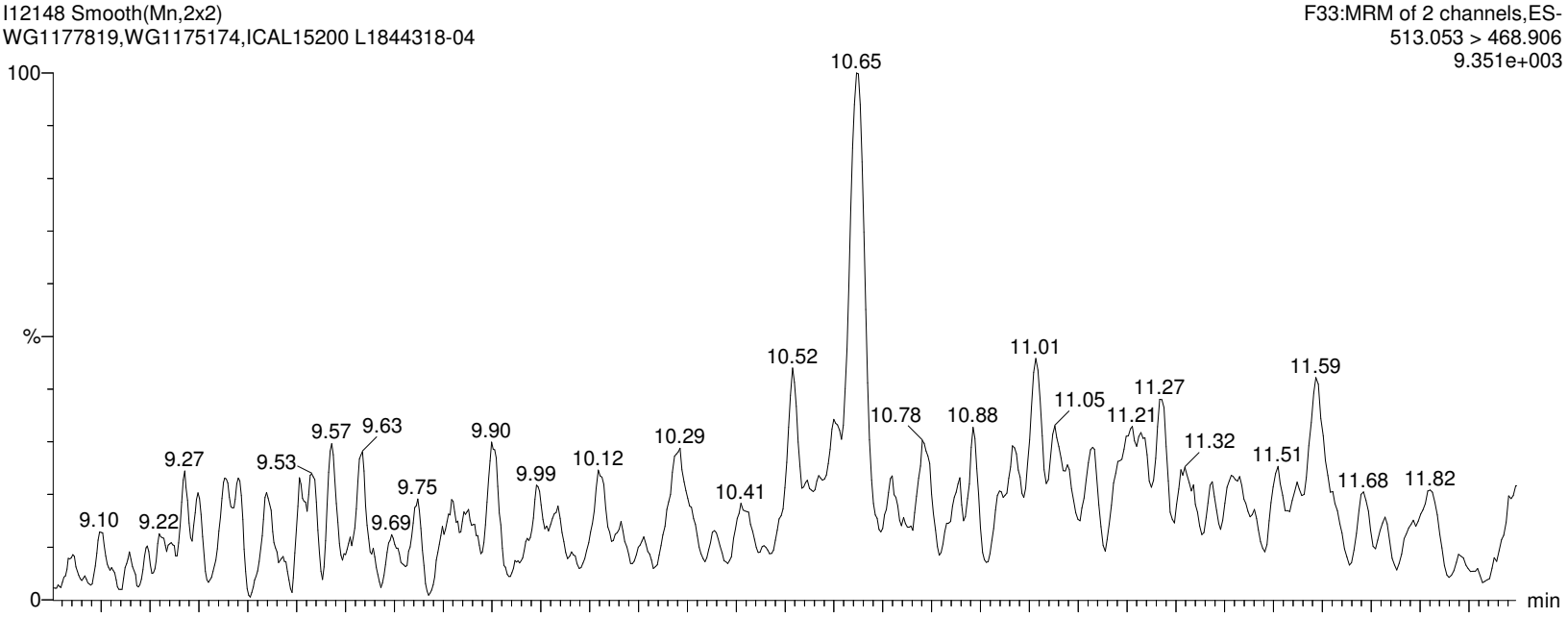

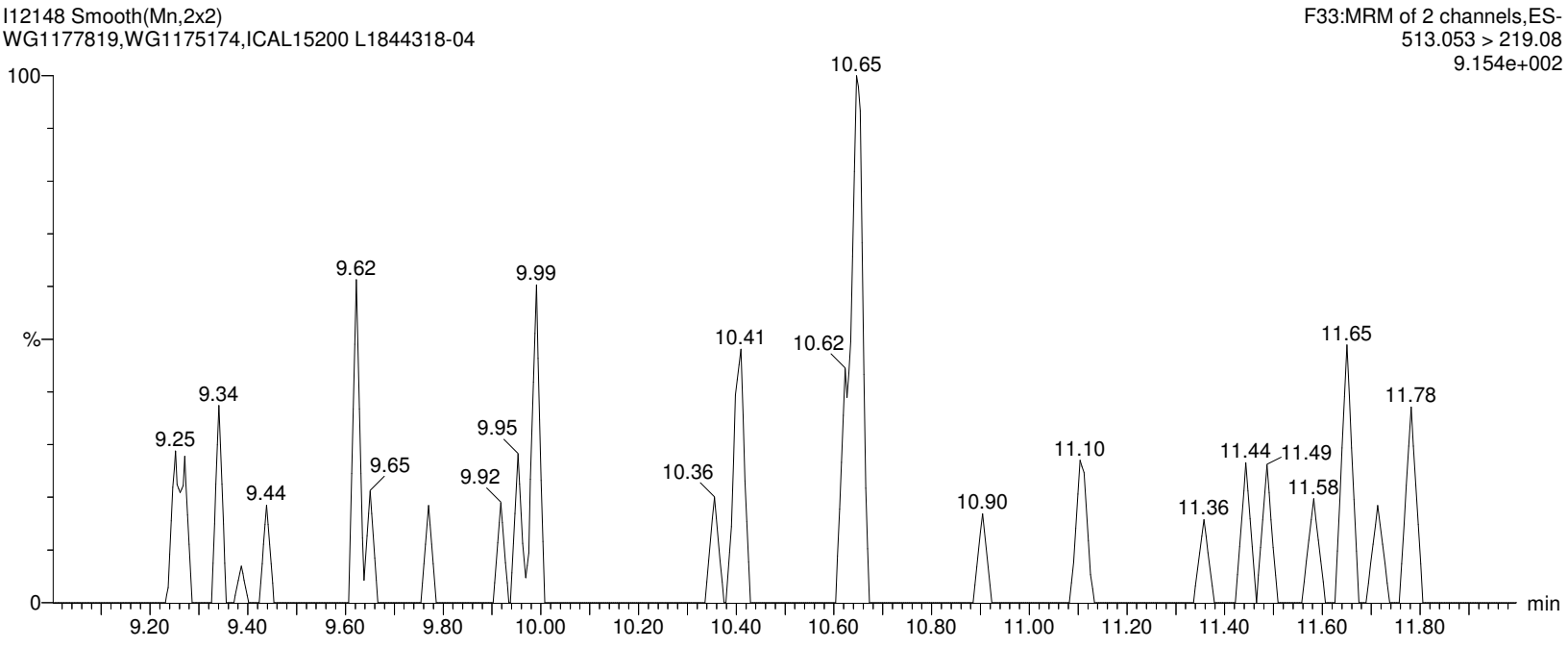

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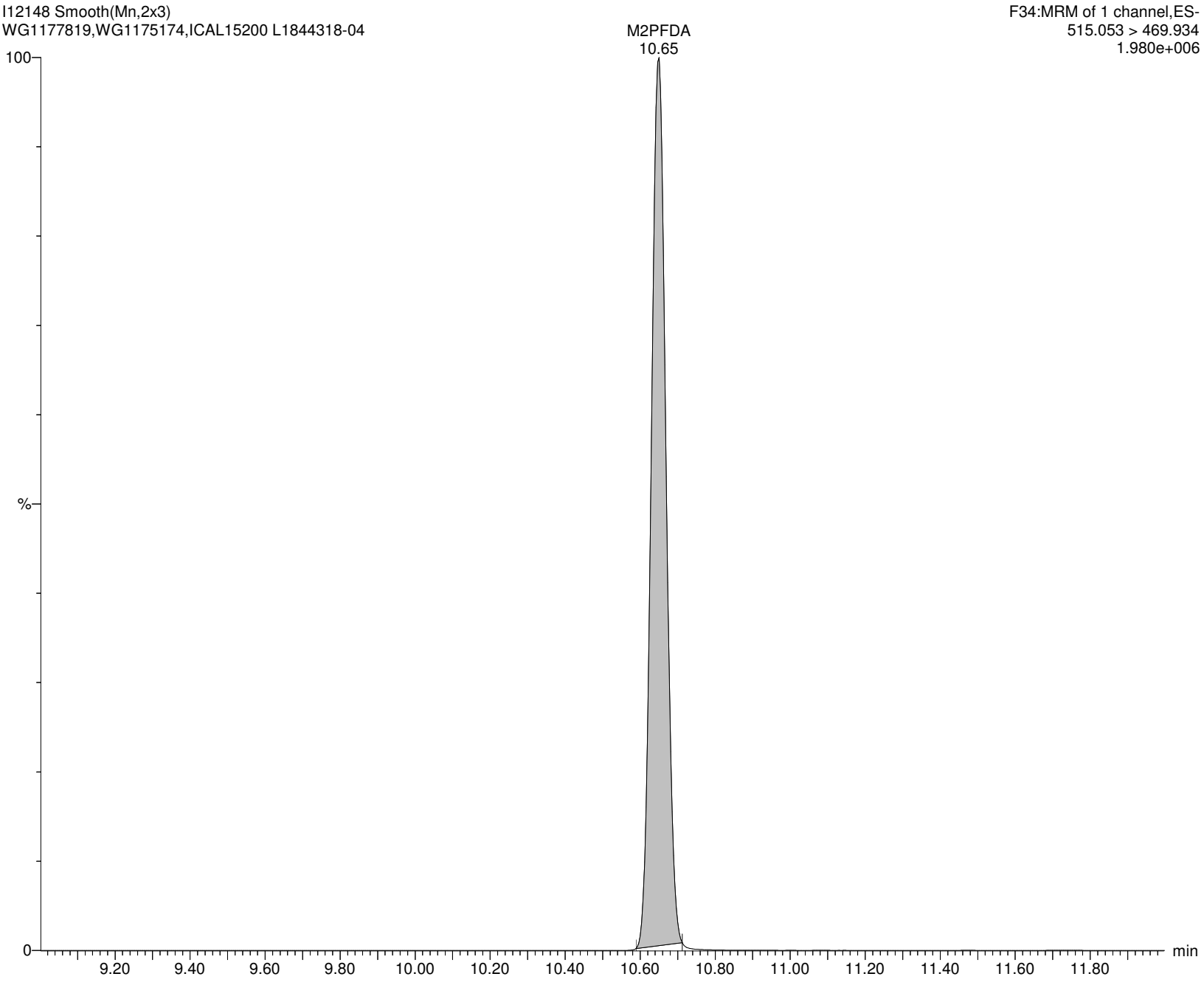
M2PFDA



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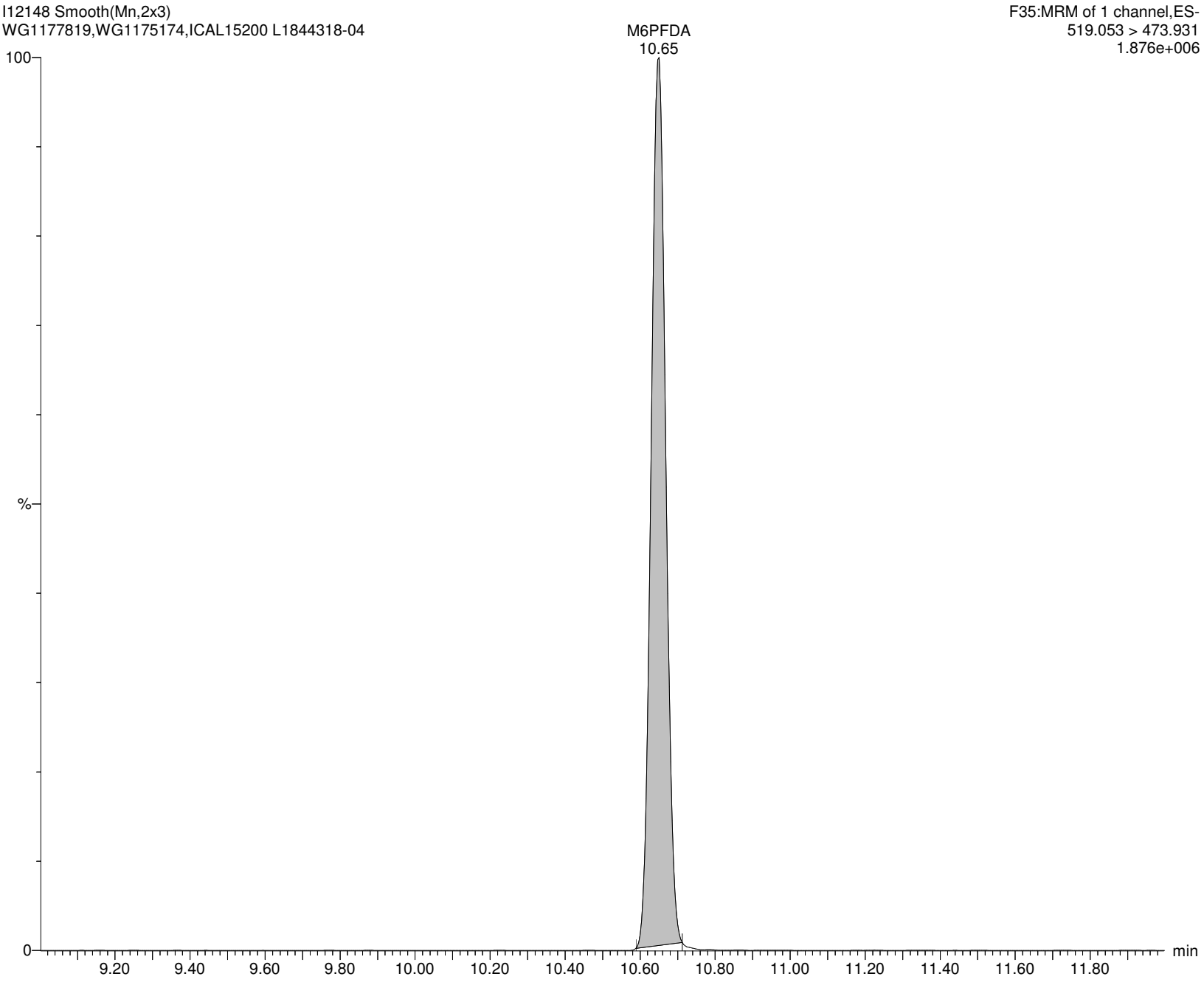

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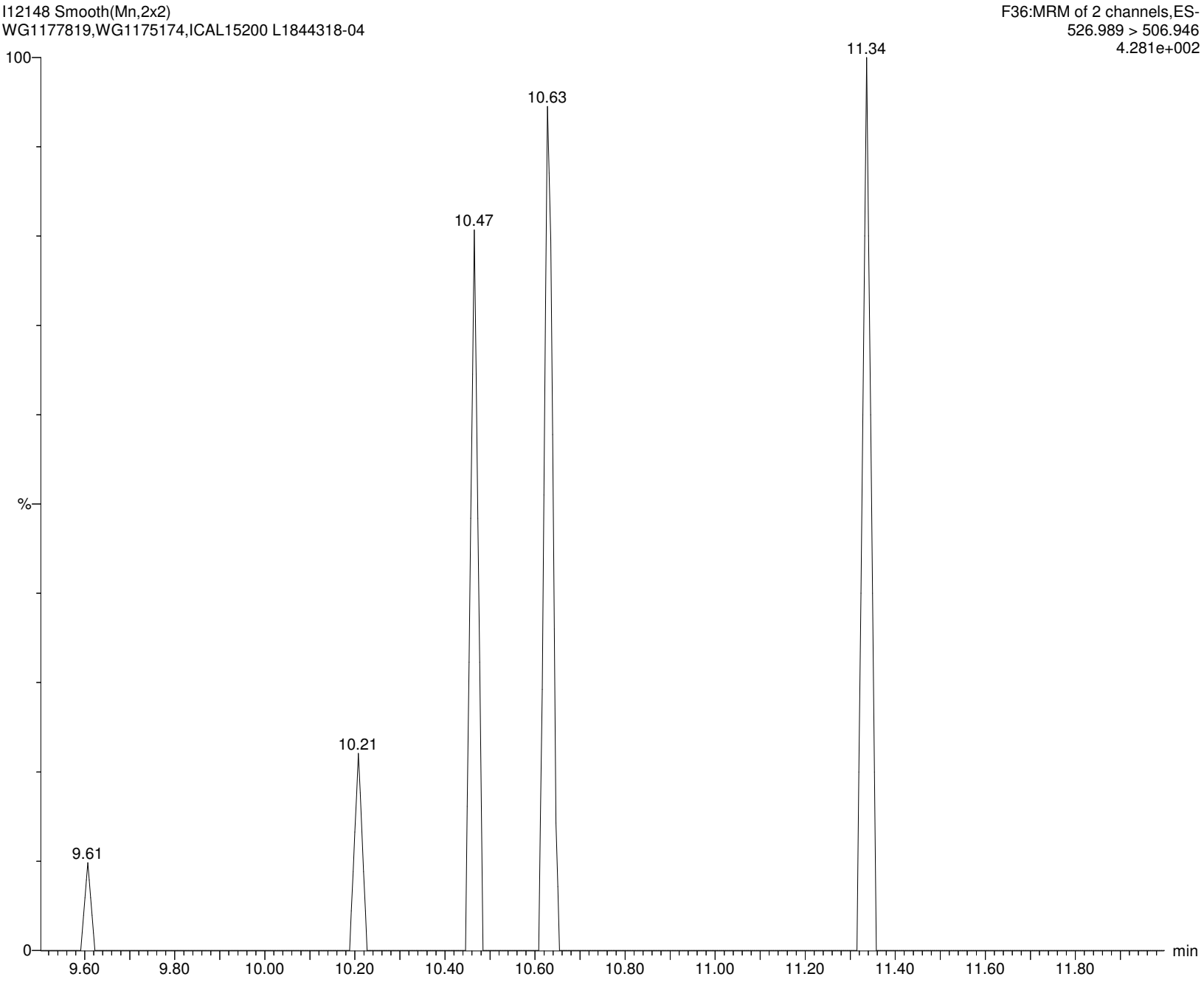
8:2FTS



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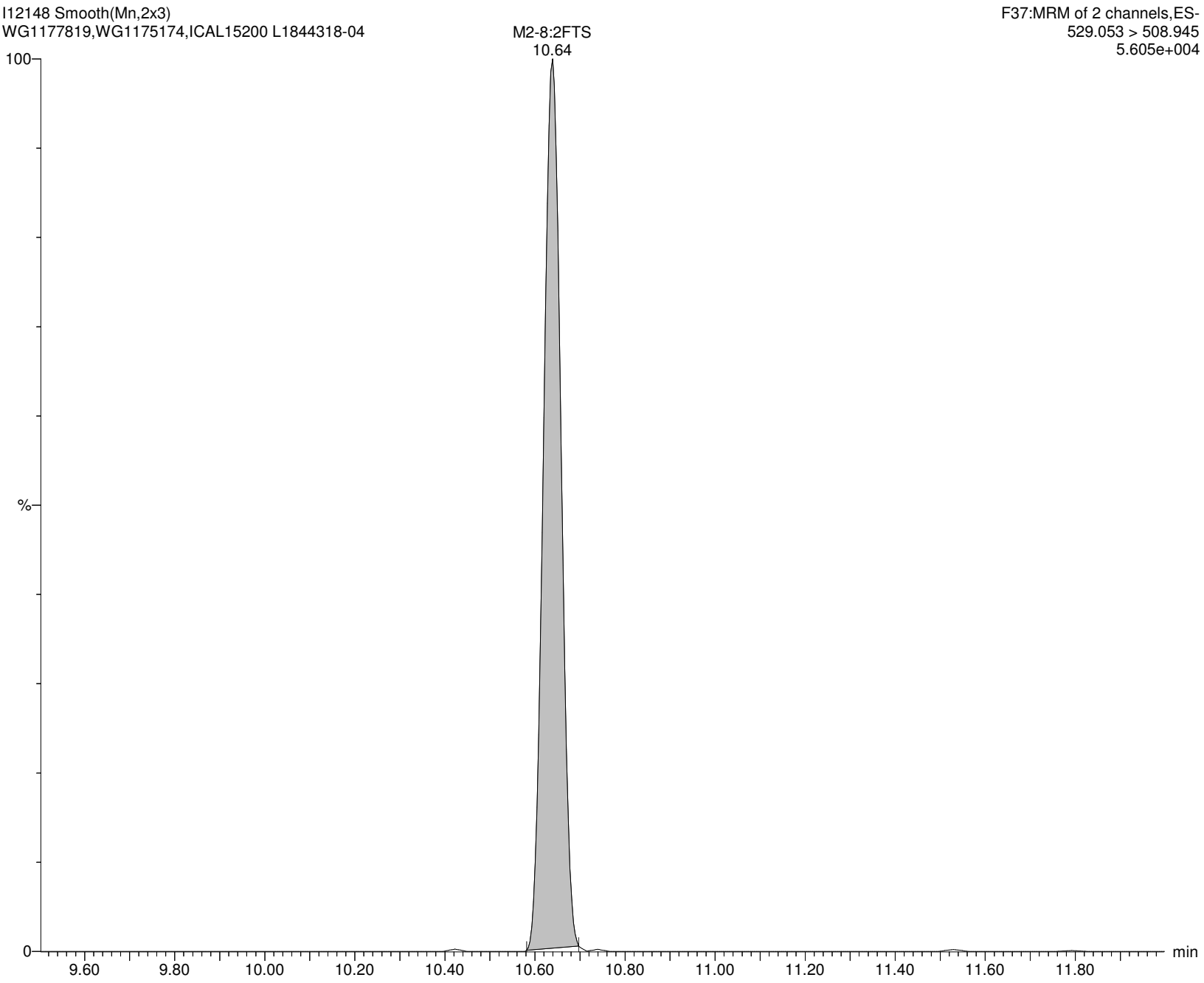
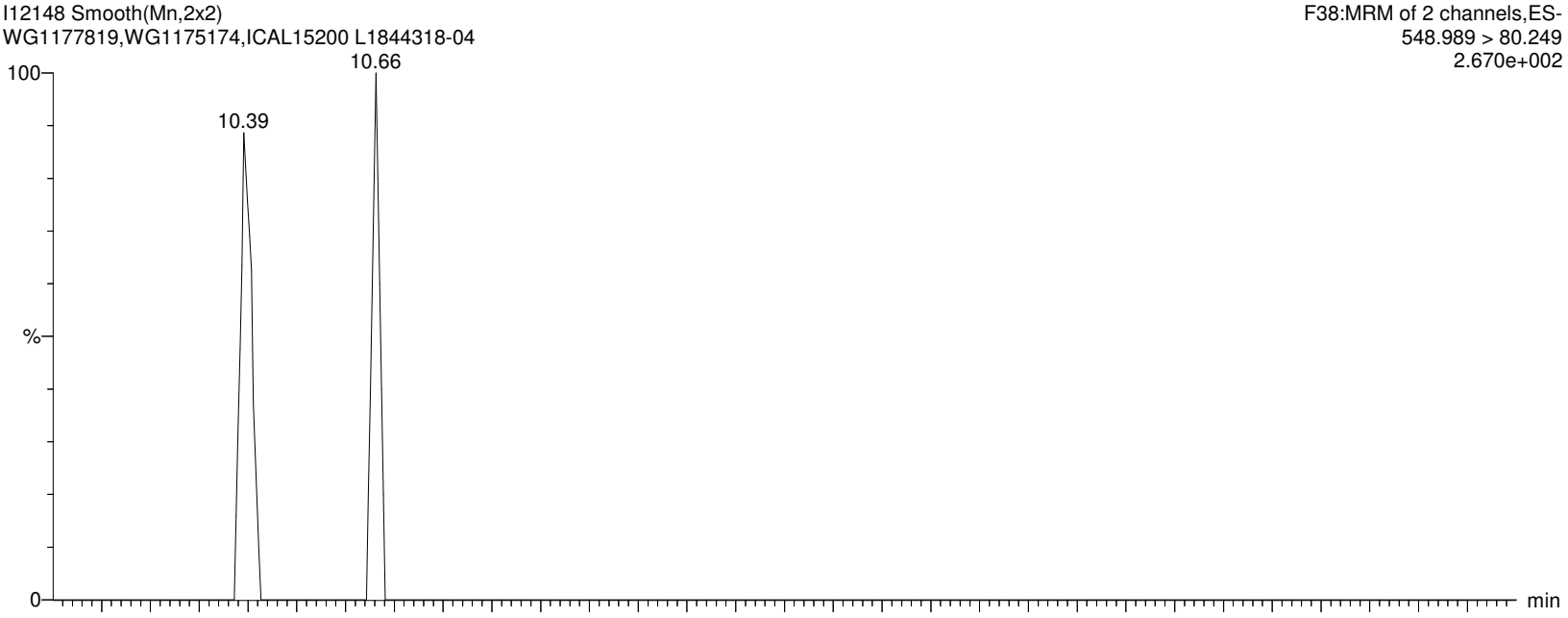


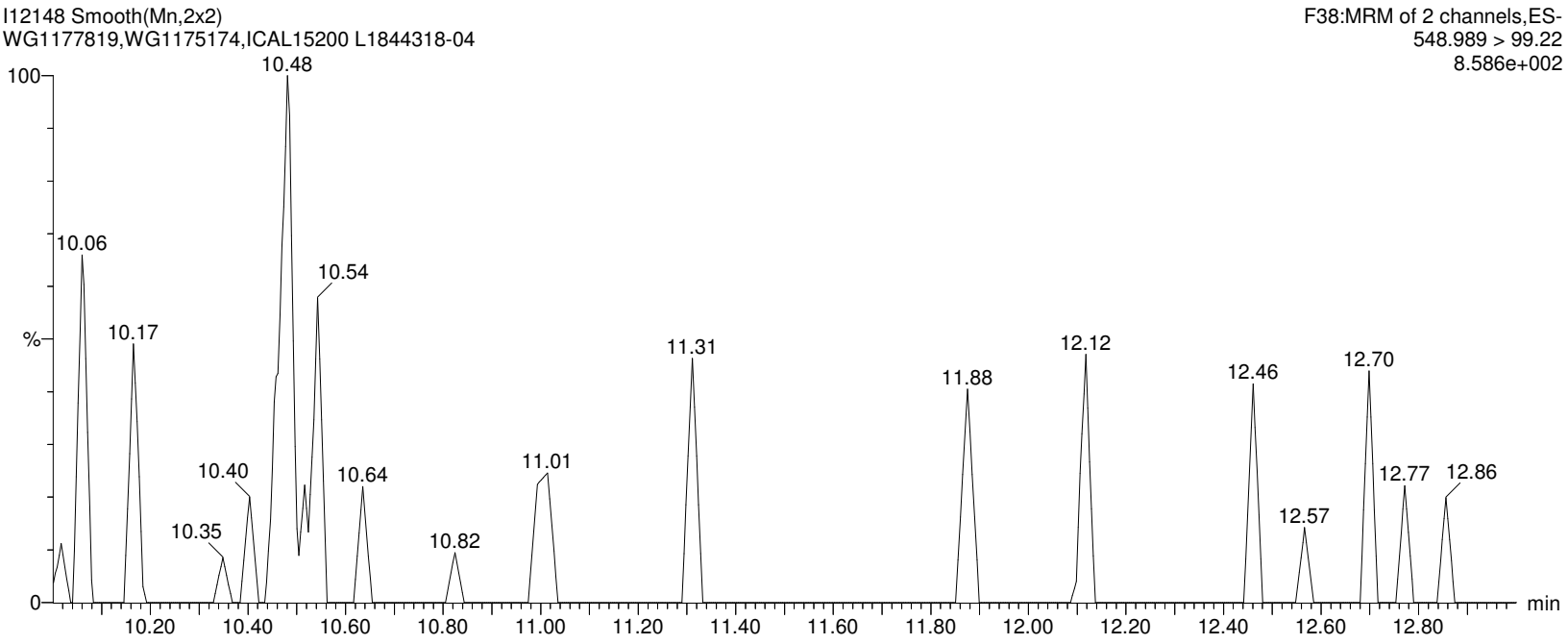
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:46 Eastern Standard Time

Name: I12148
ID: L1844318-04
Date: 10-Nov-2018
Time: 05:45:36
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFNS





all concentration units in (ng/mL)

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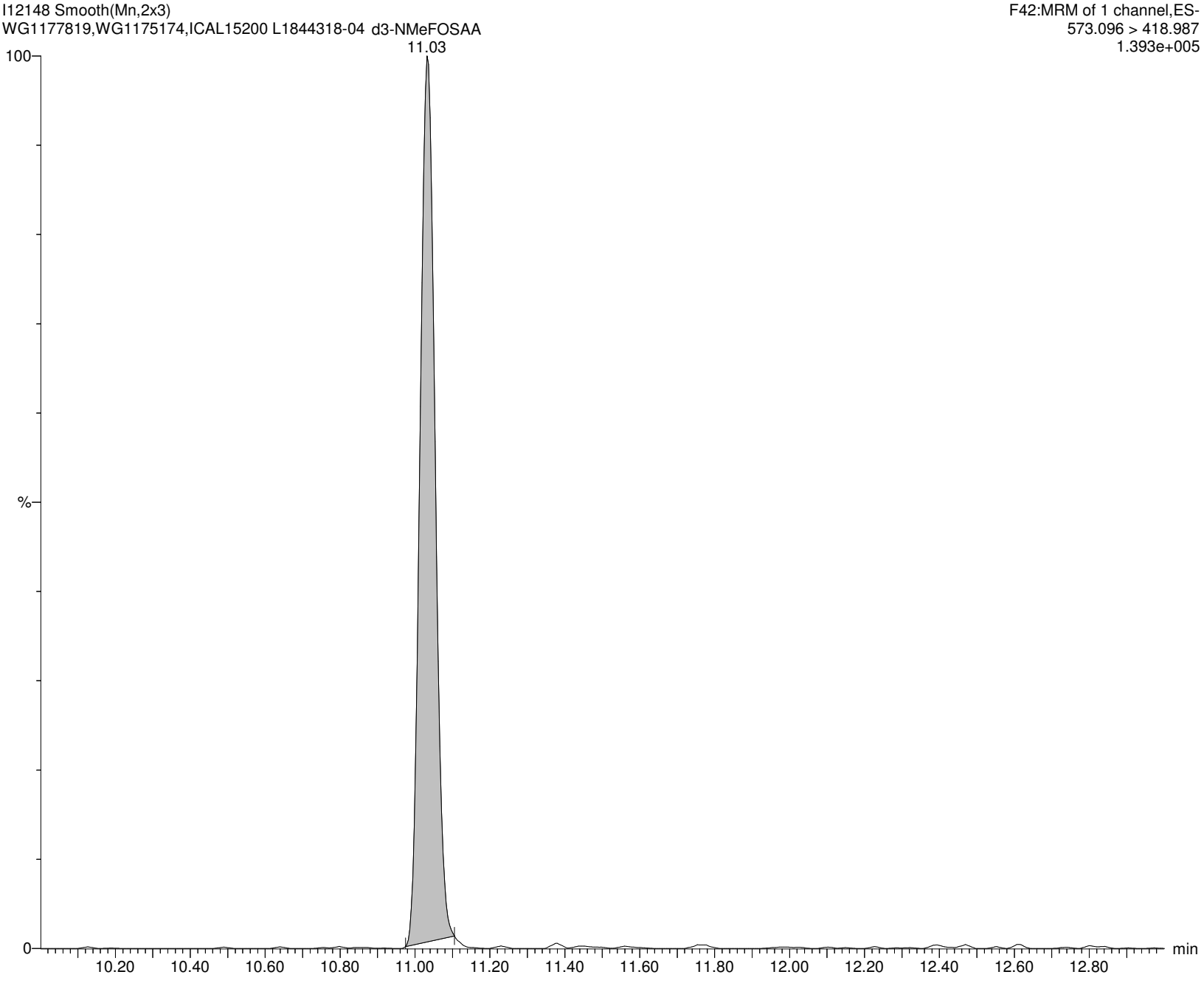
d3-NMeFOSAA



all concentration units in (ng/mL)

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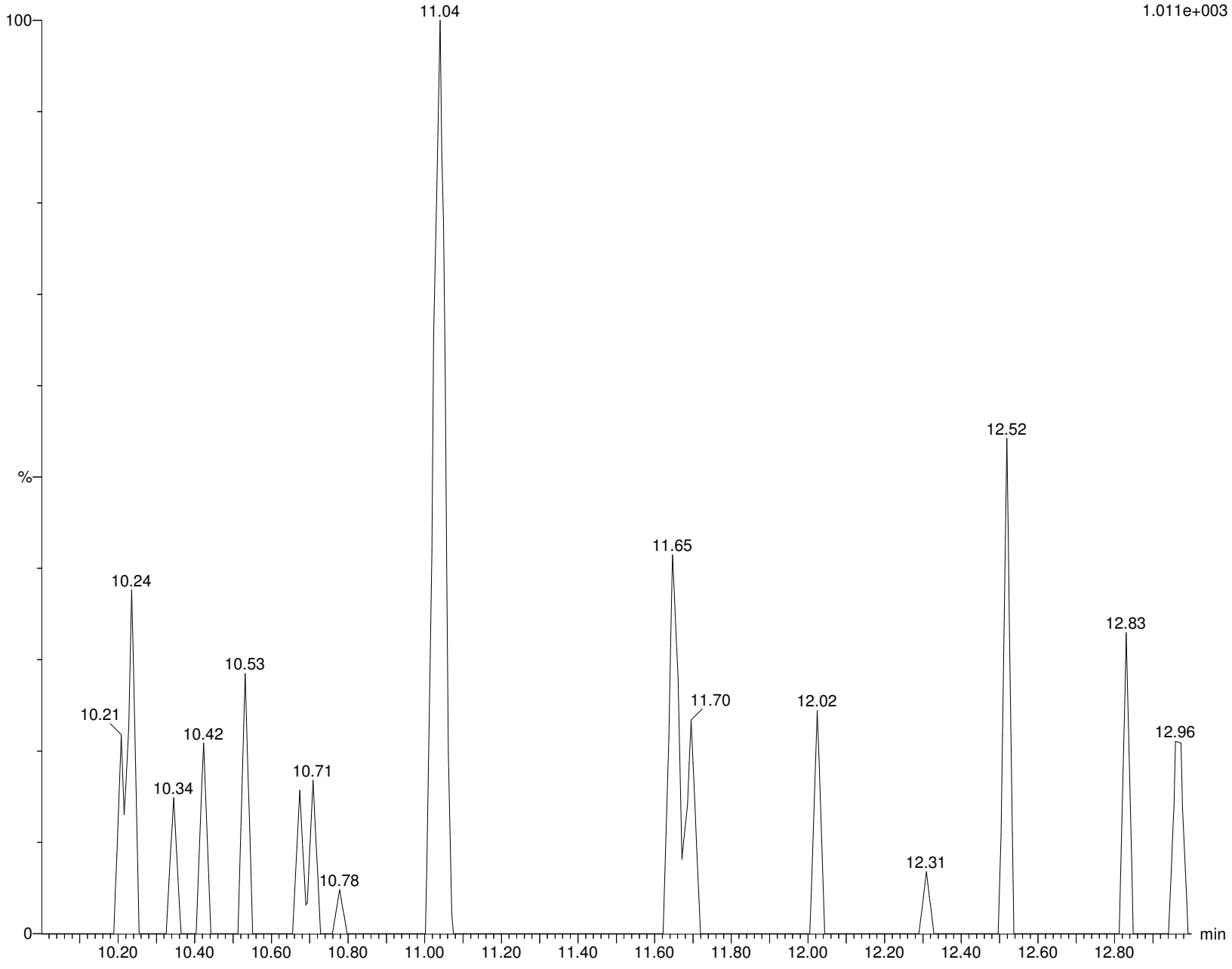

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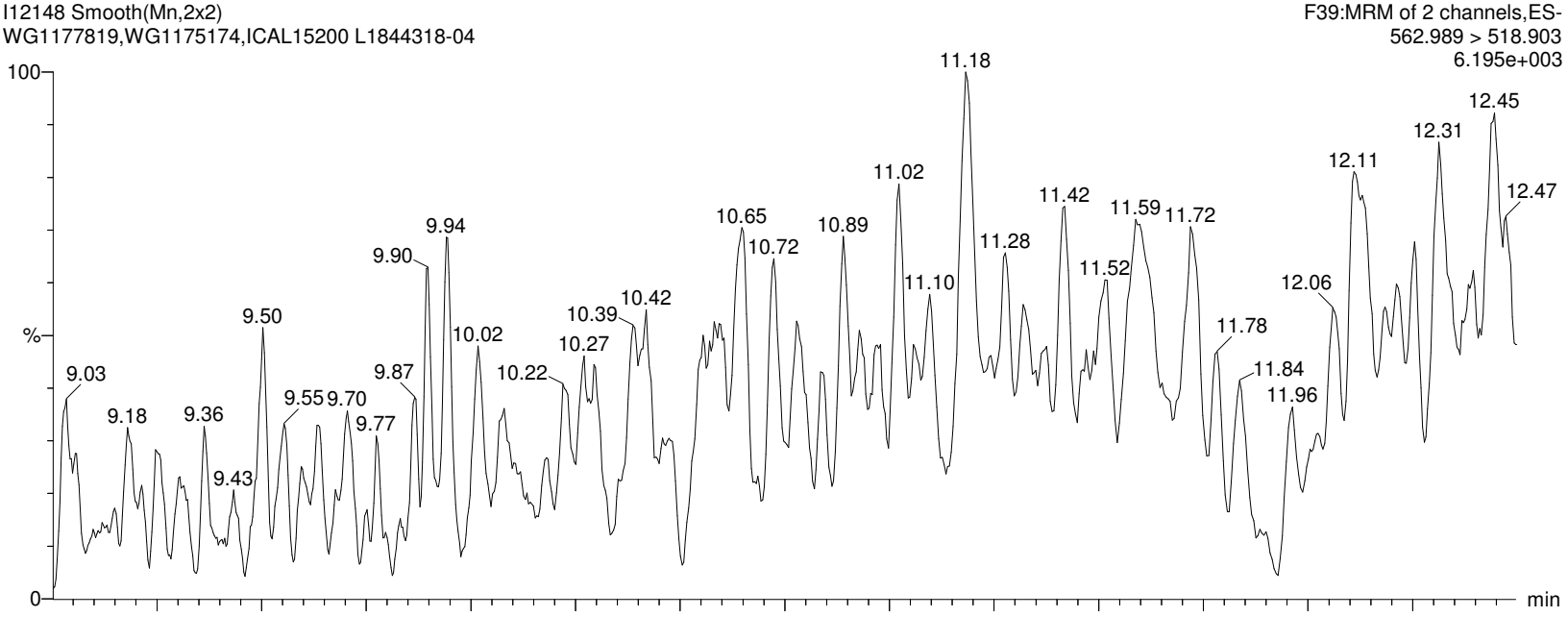

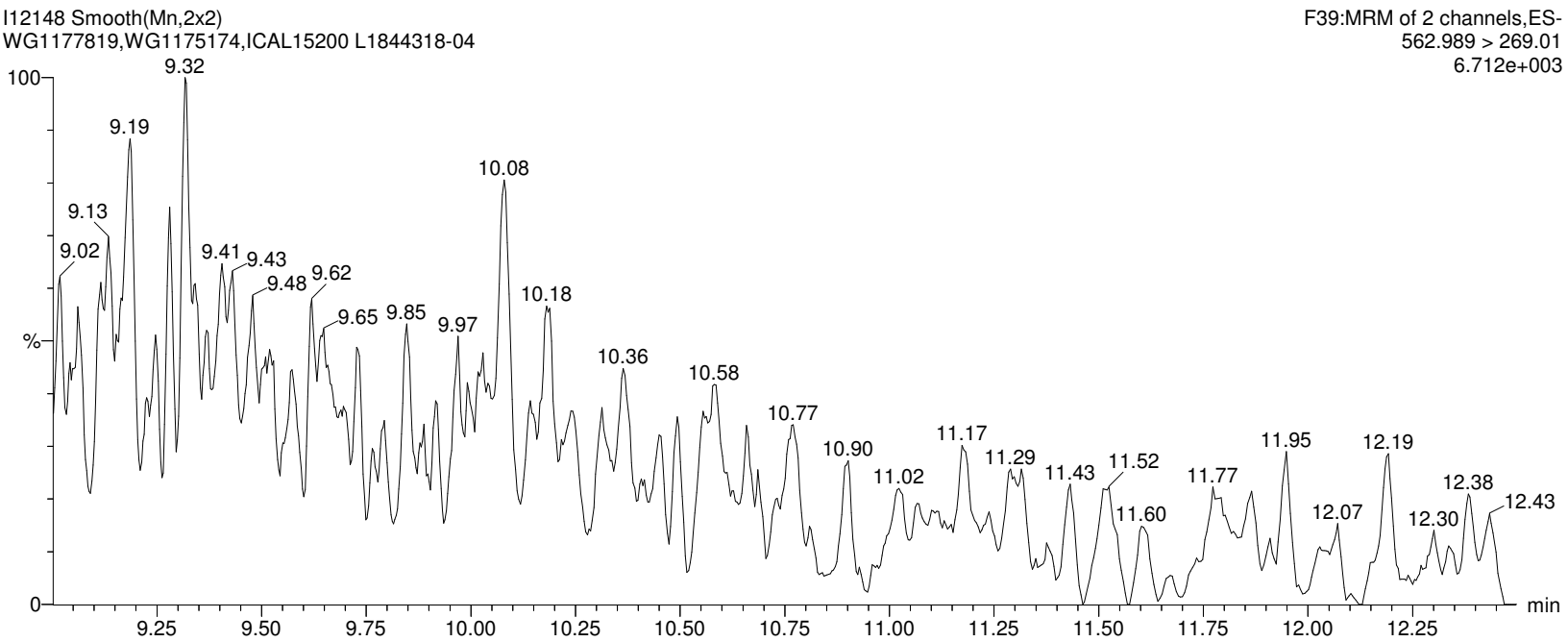

all concentration units in (ng/mL)

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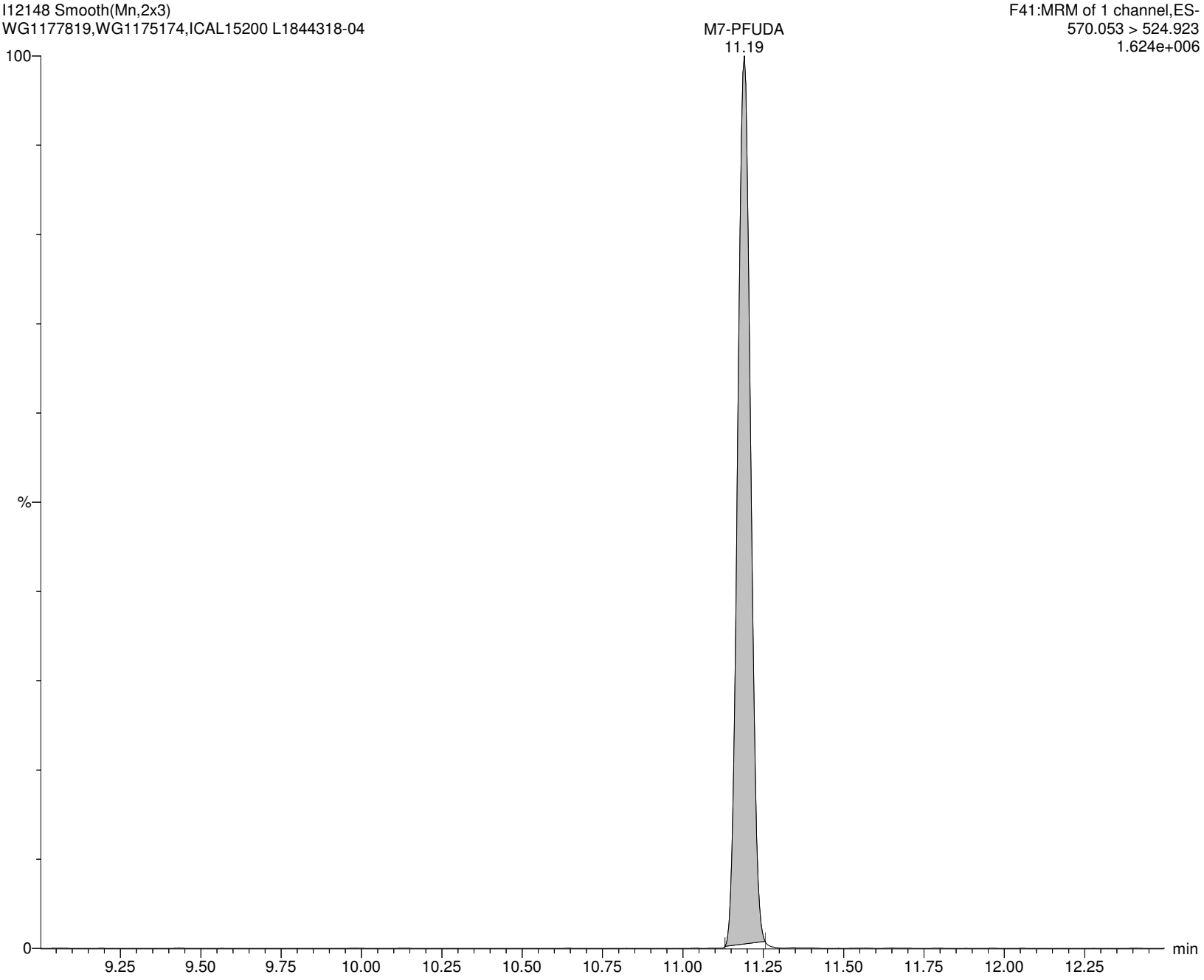
M7-PFUDA



all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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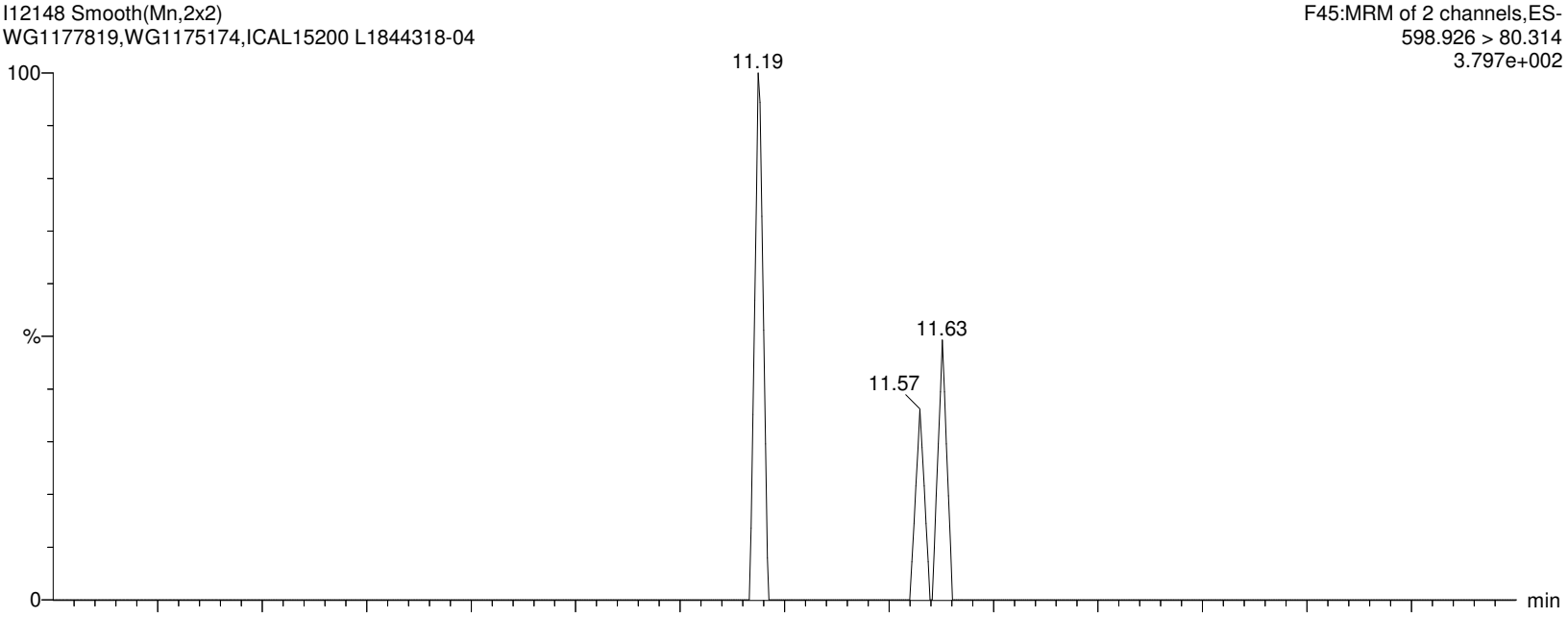

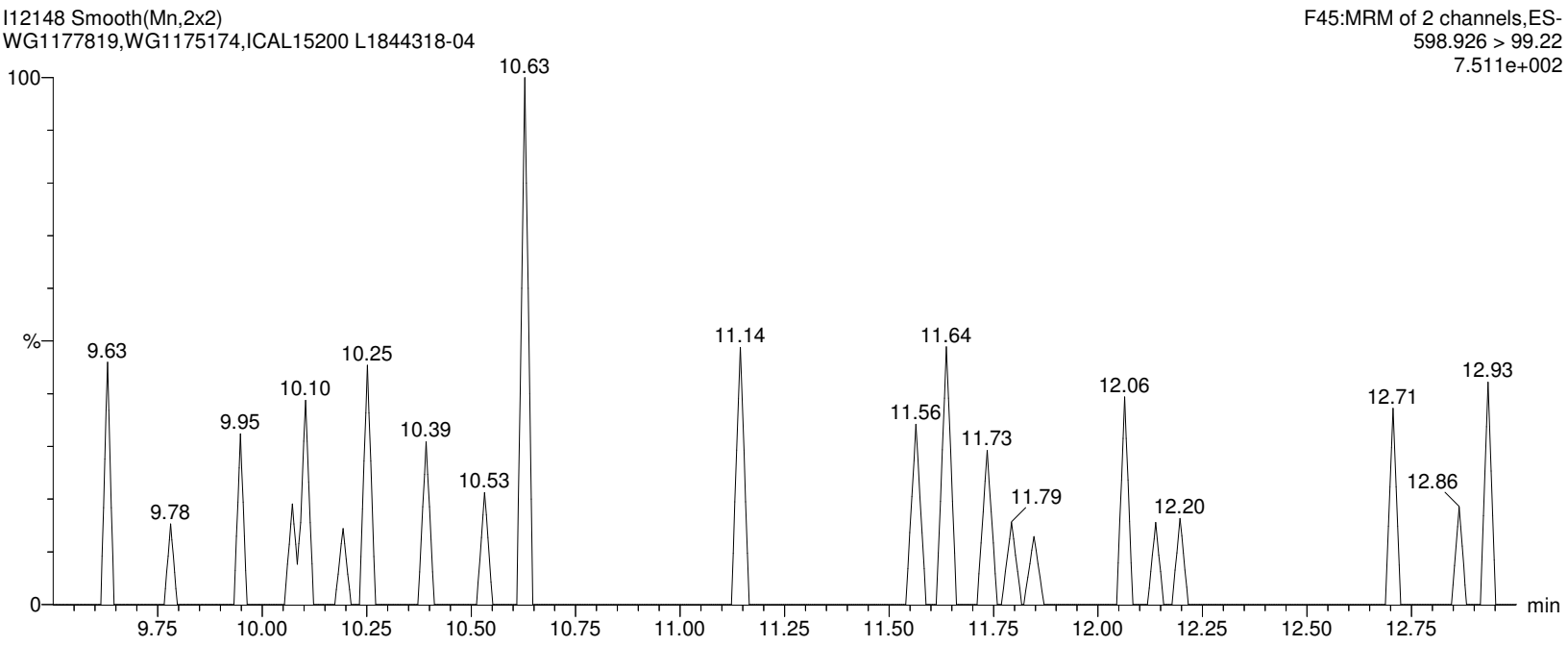

all concentration units in (ng/mL)

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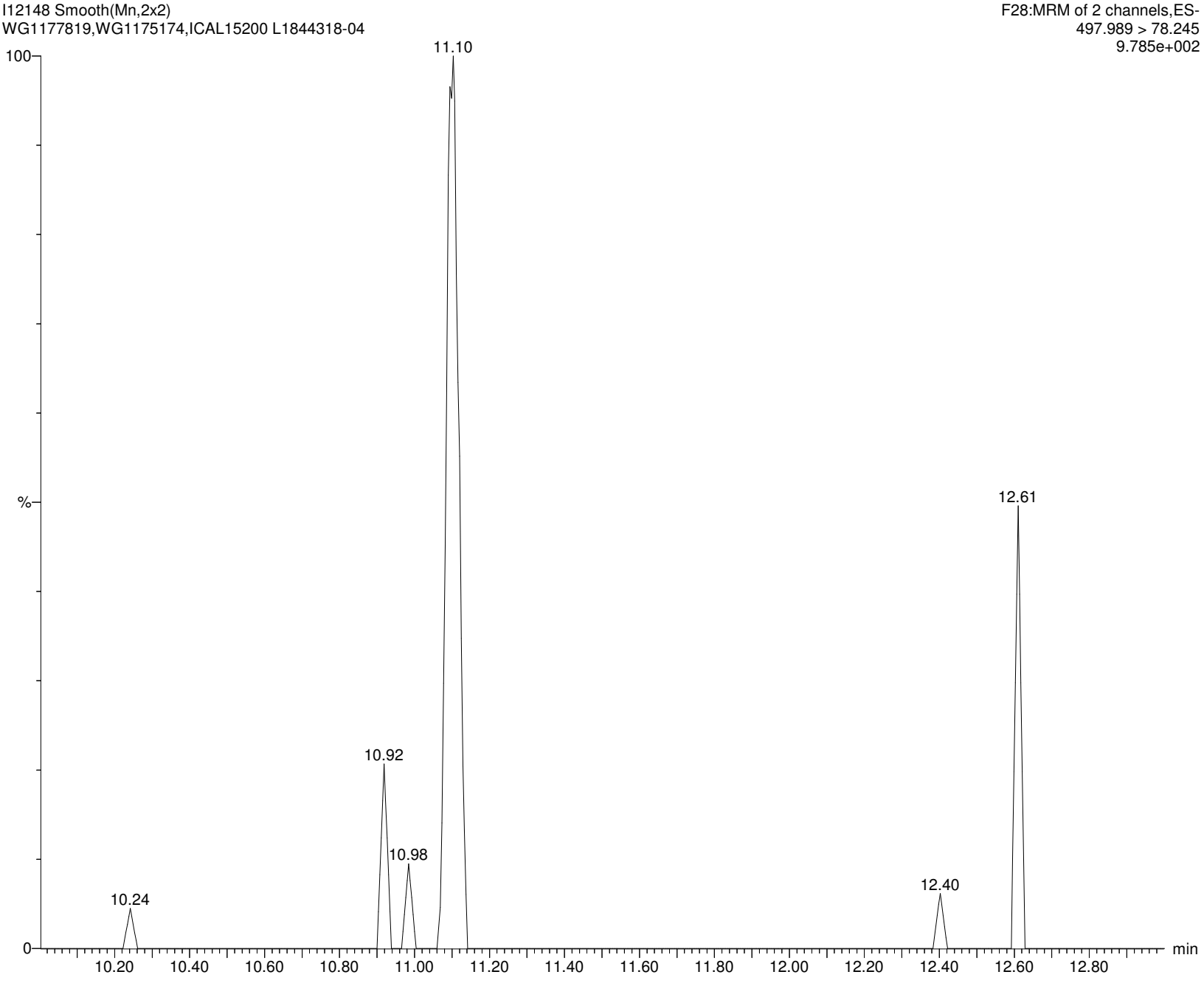
FOSA



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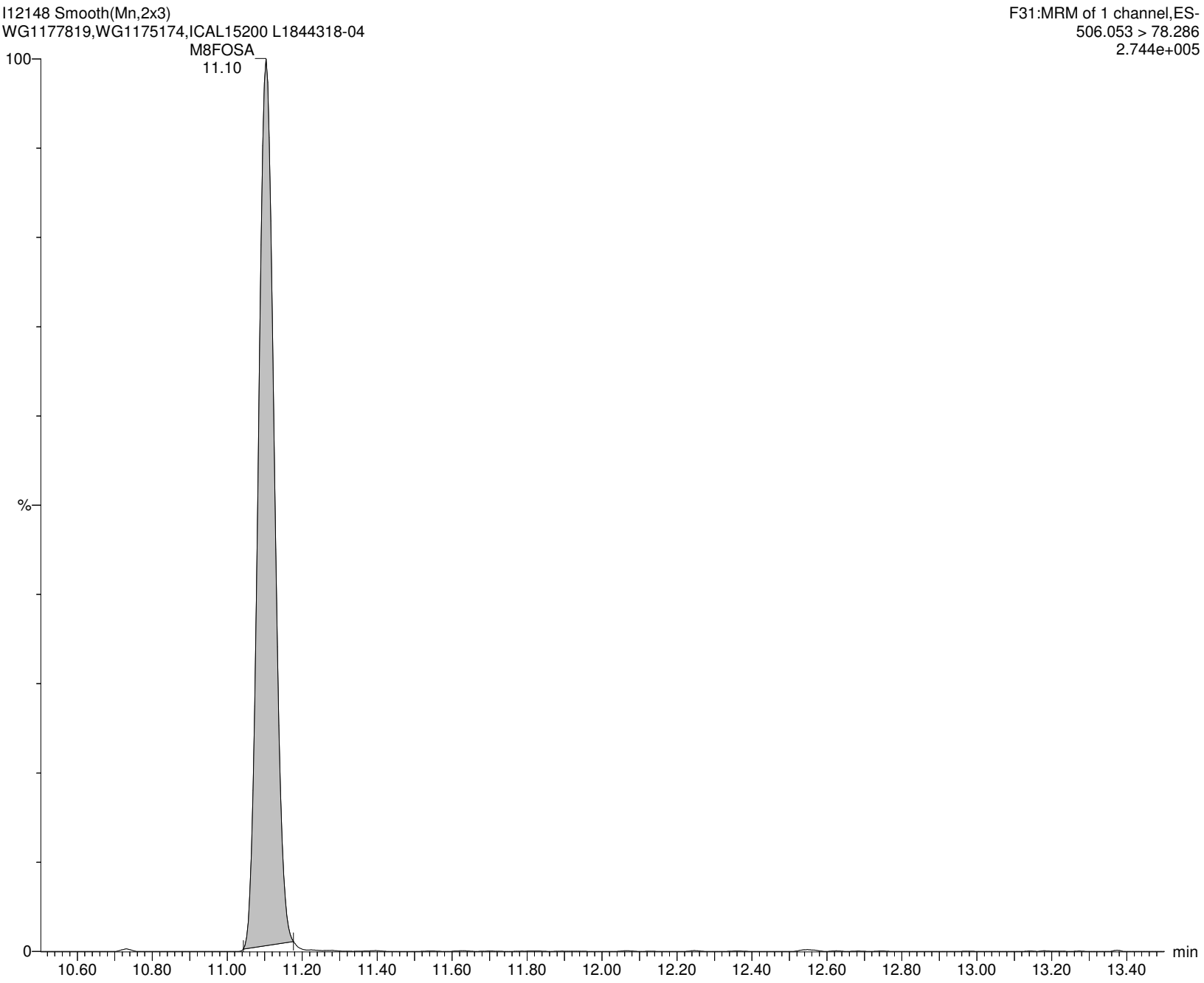

all concentration units in (ng/mL)

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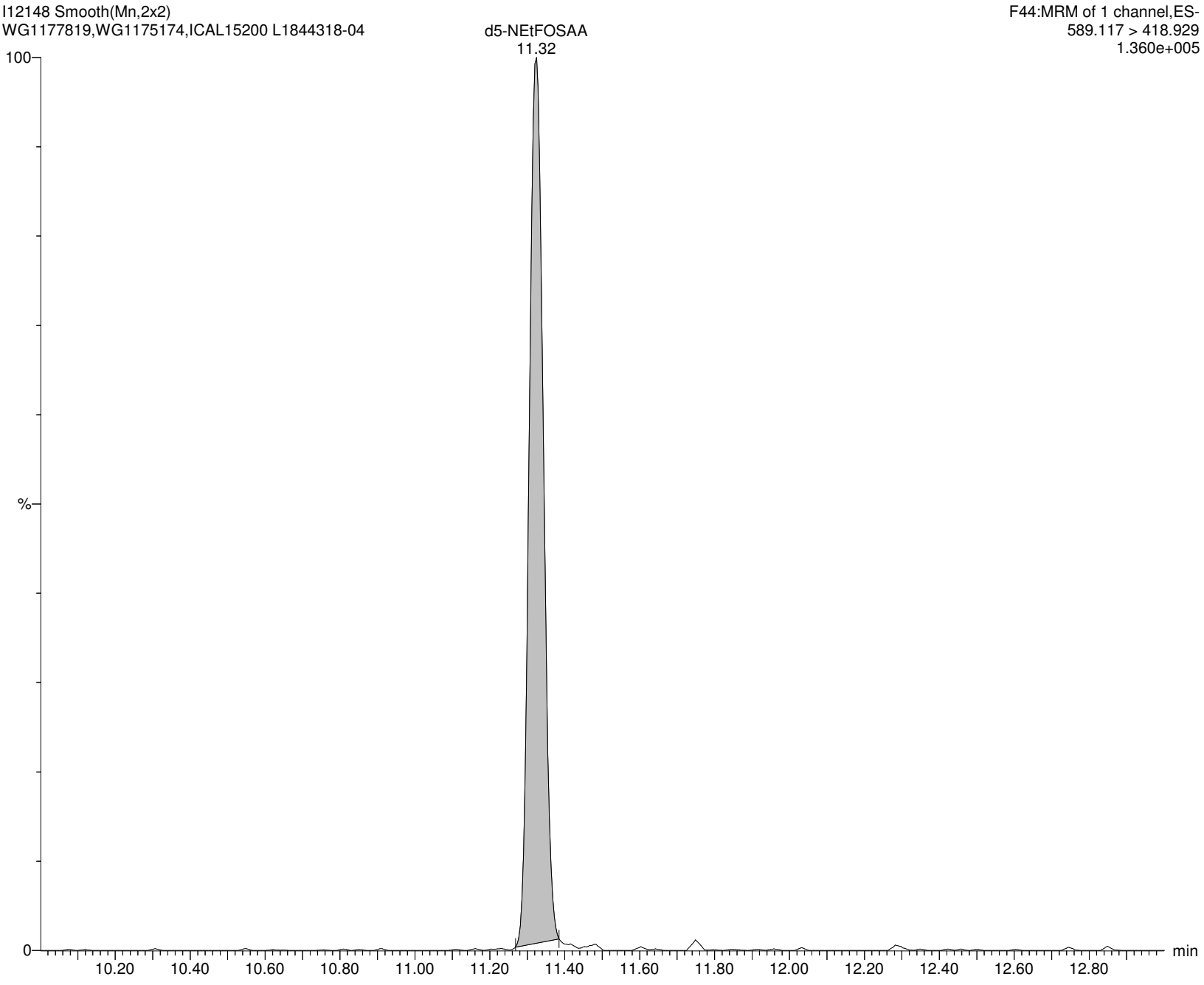
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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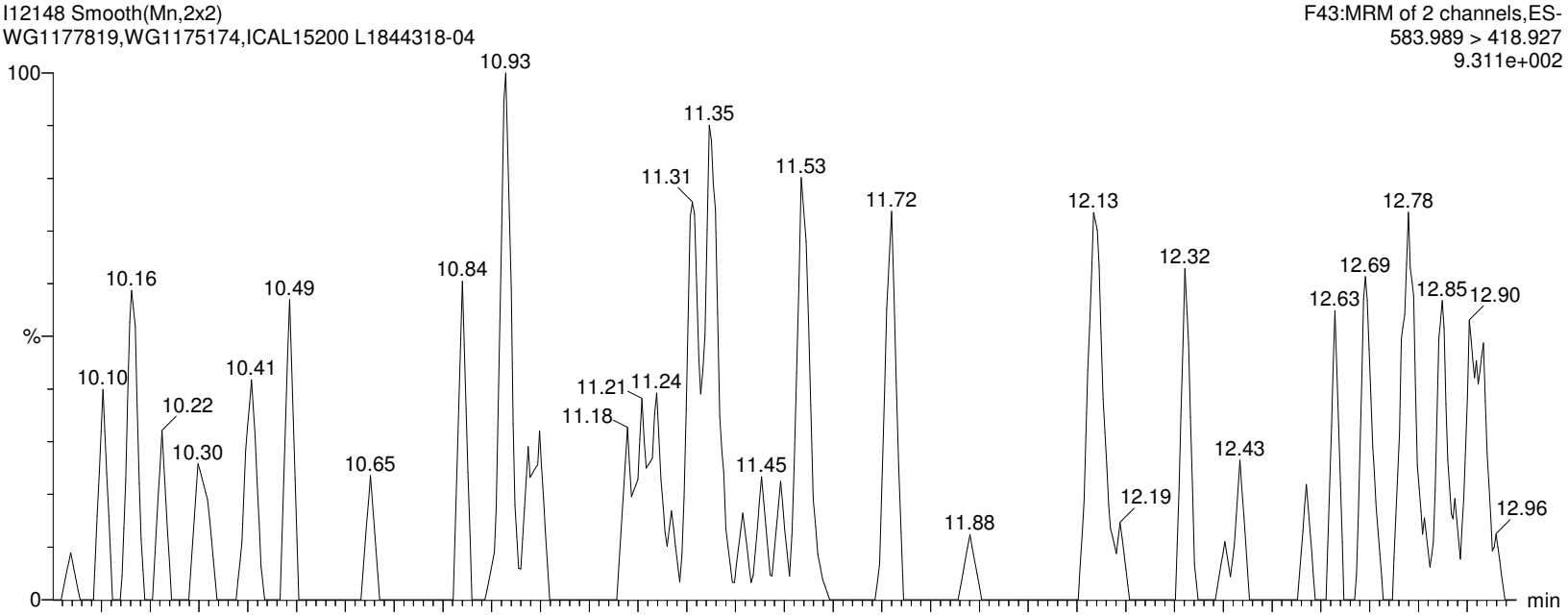

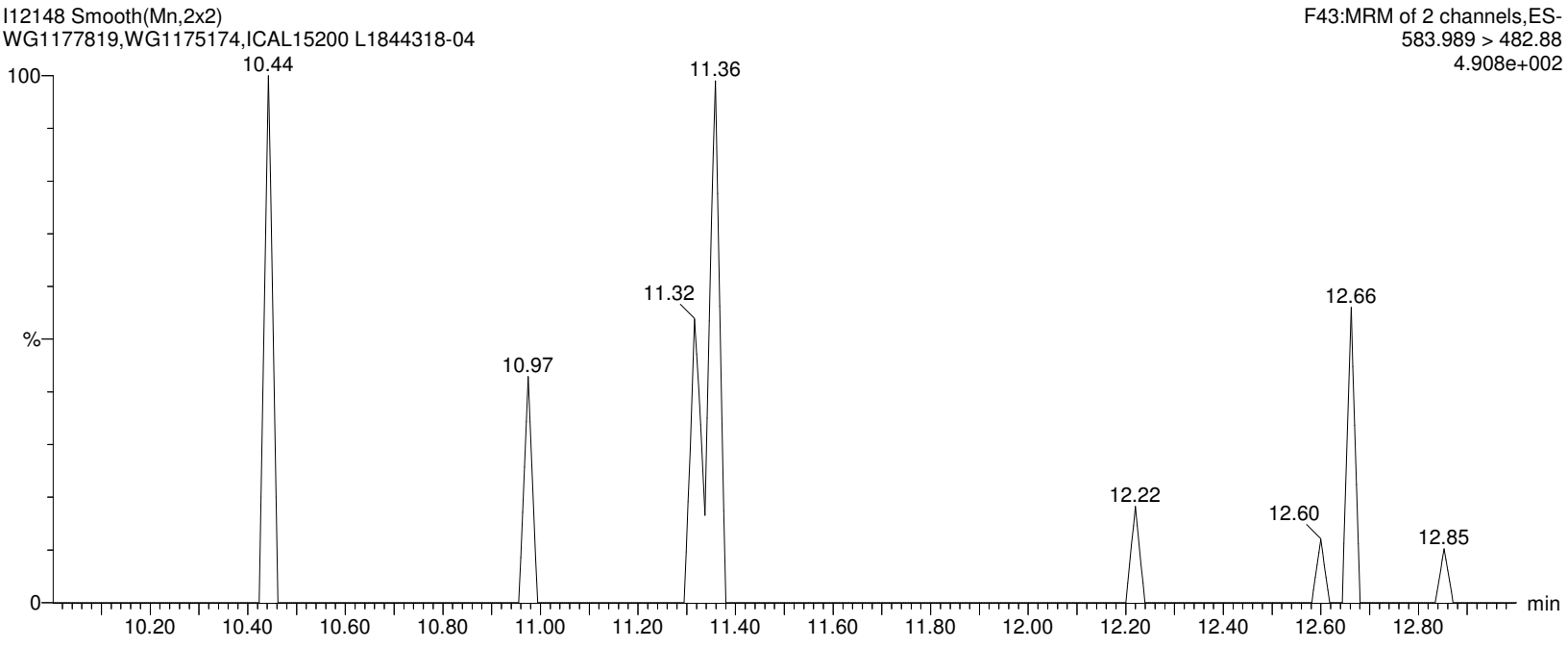

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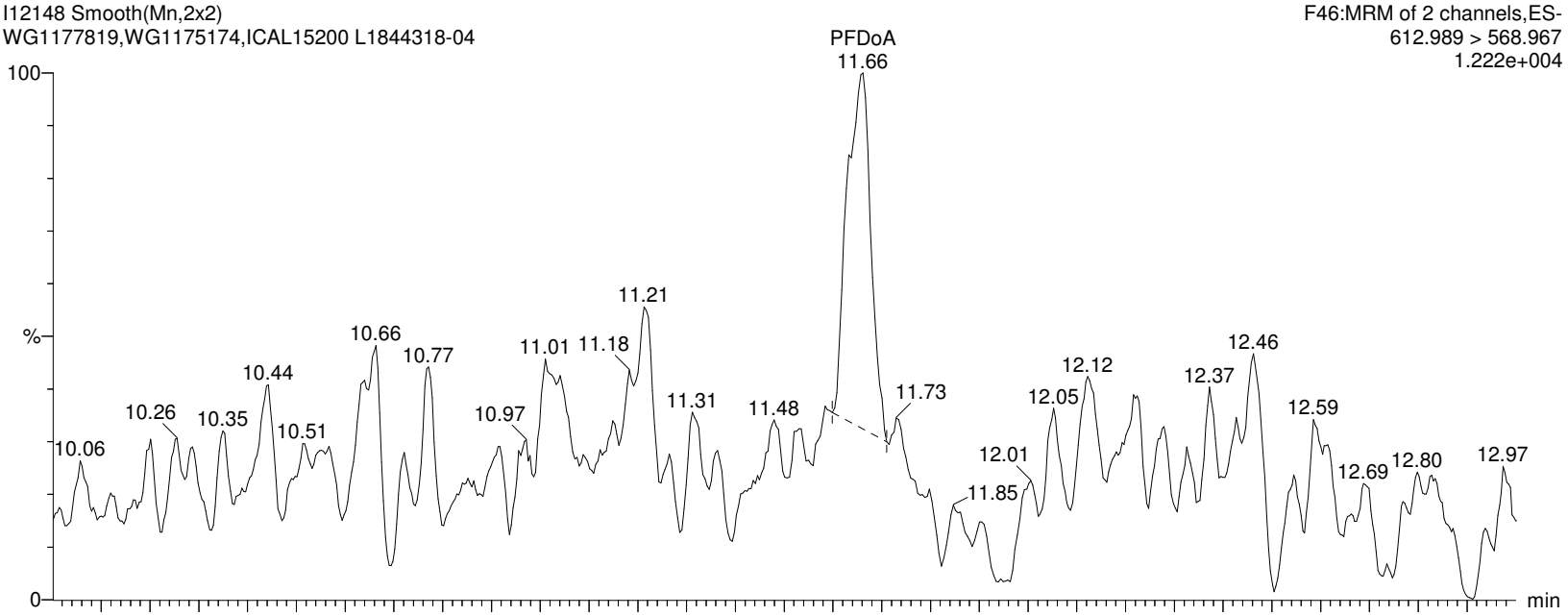
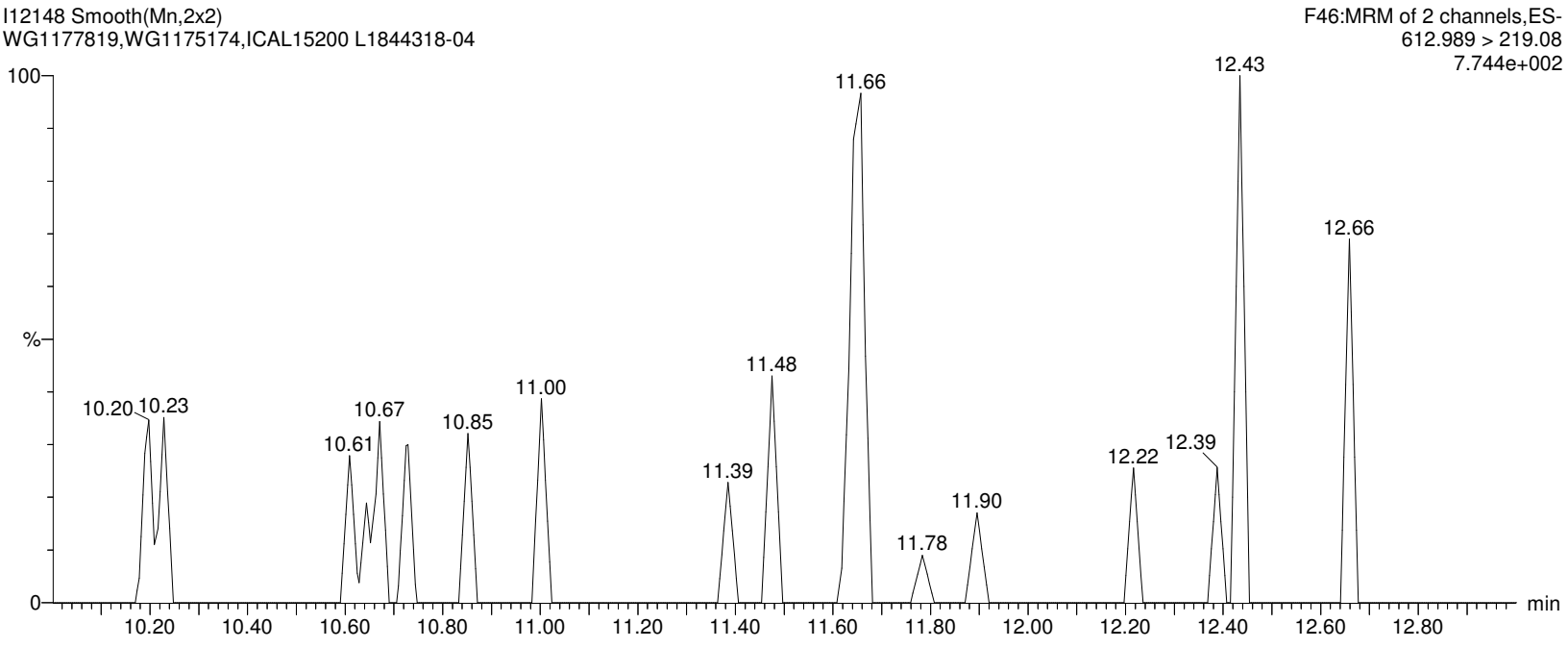
PFDoA





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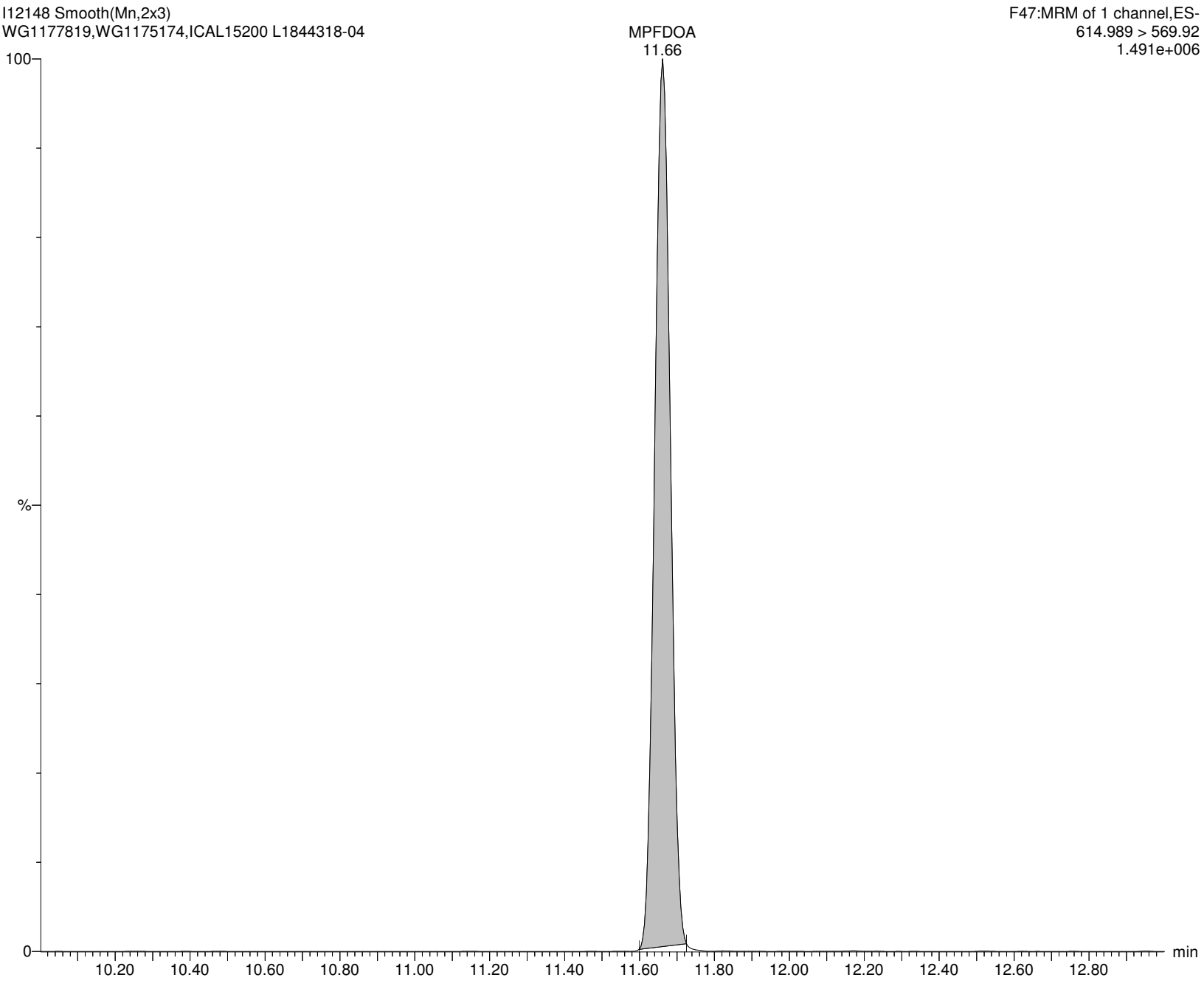

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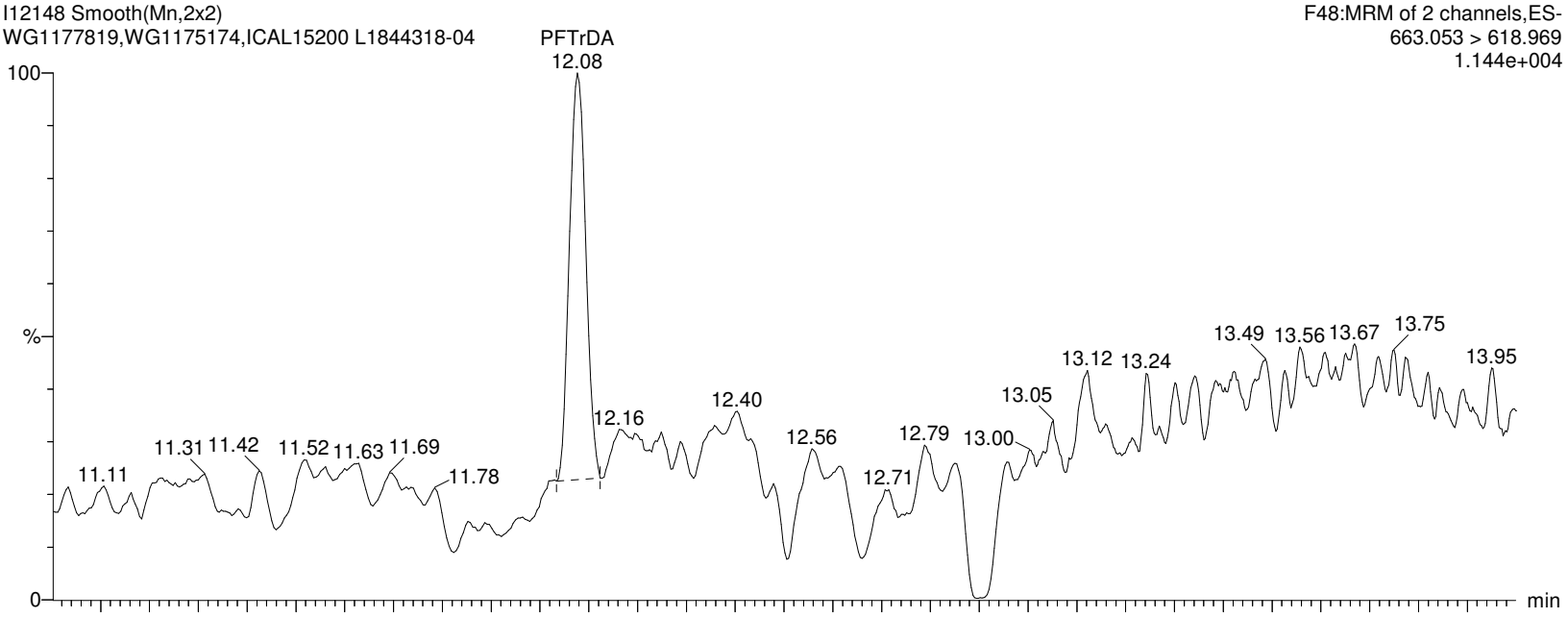

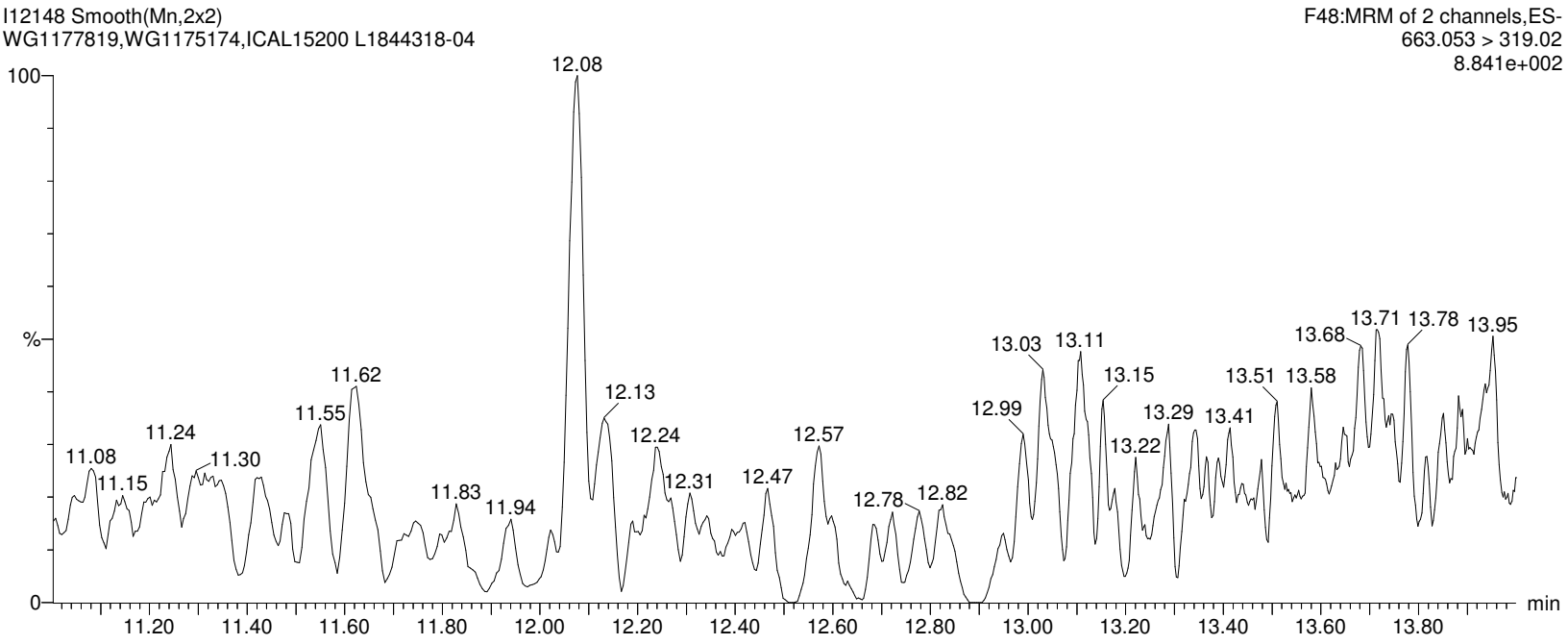

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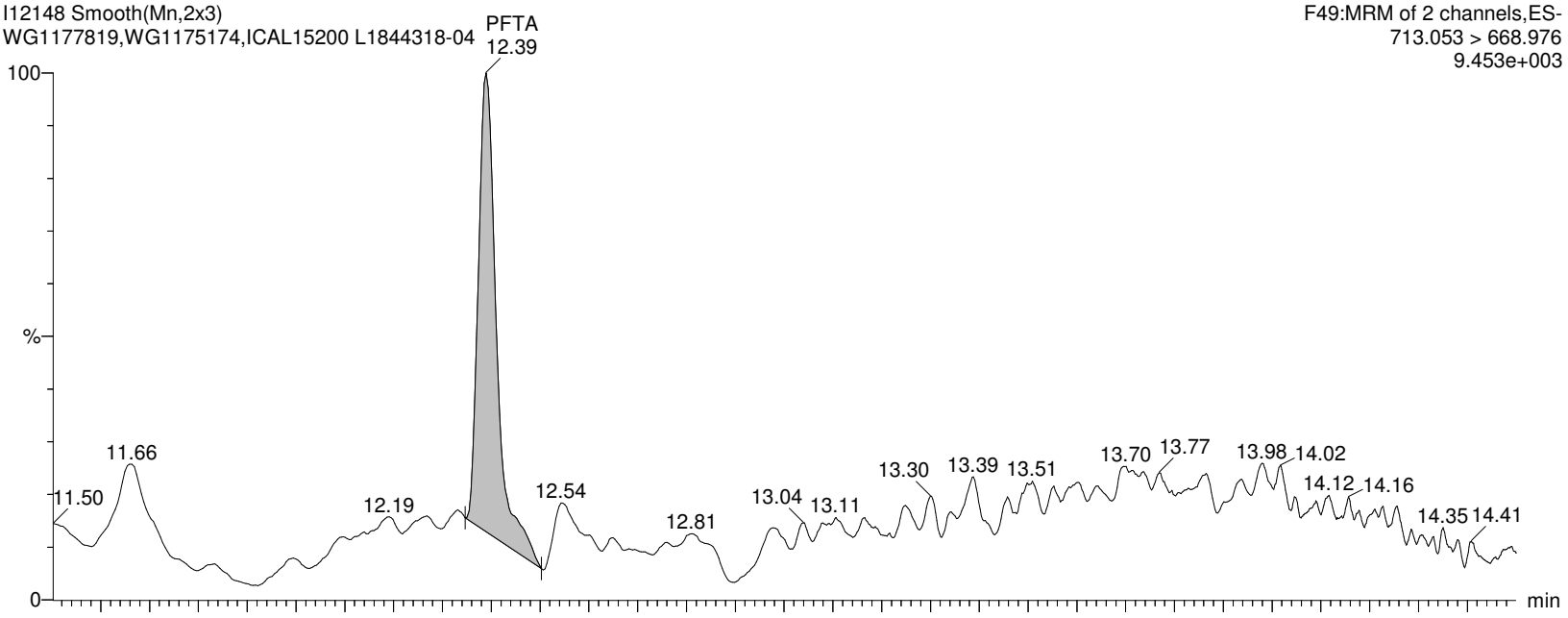
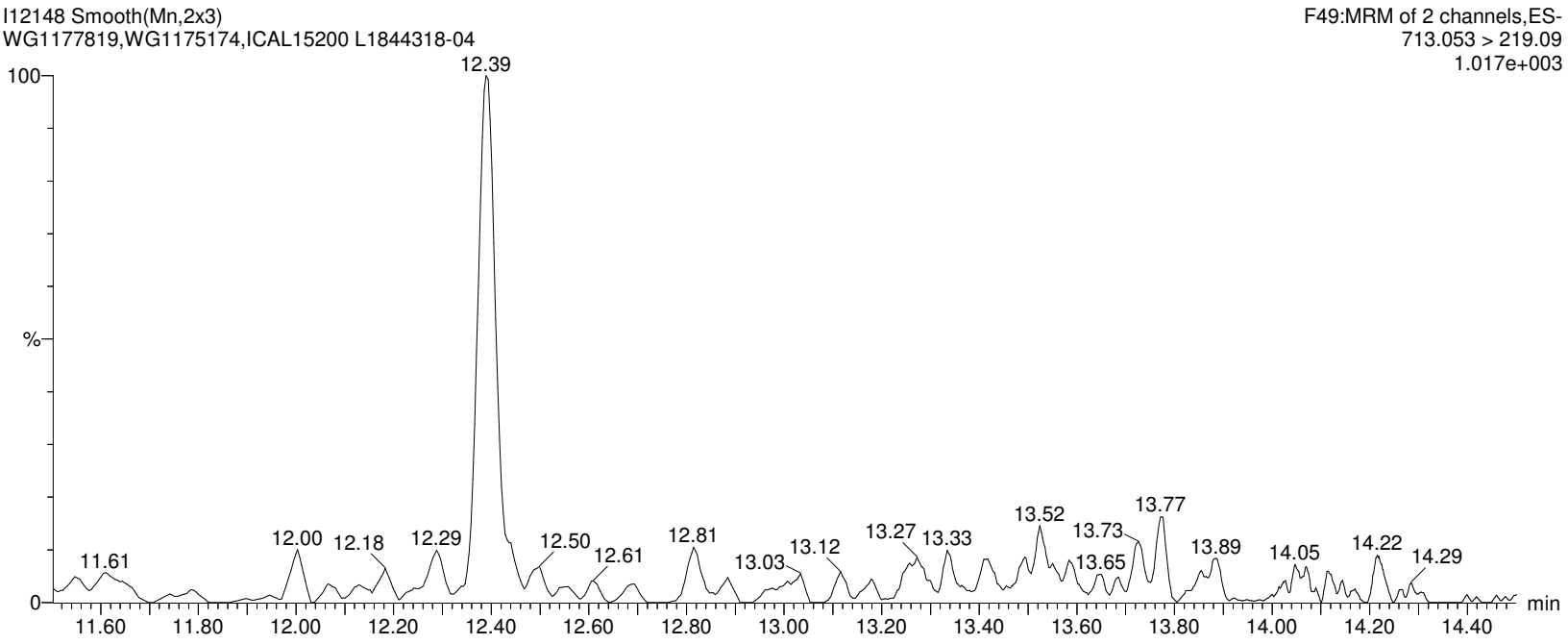
PFTA





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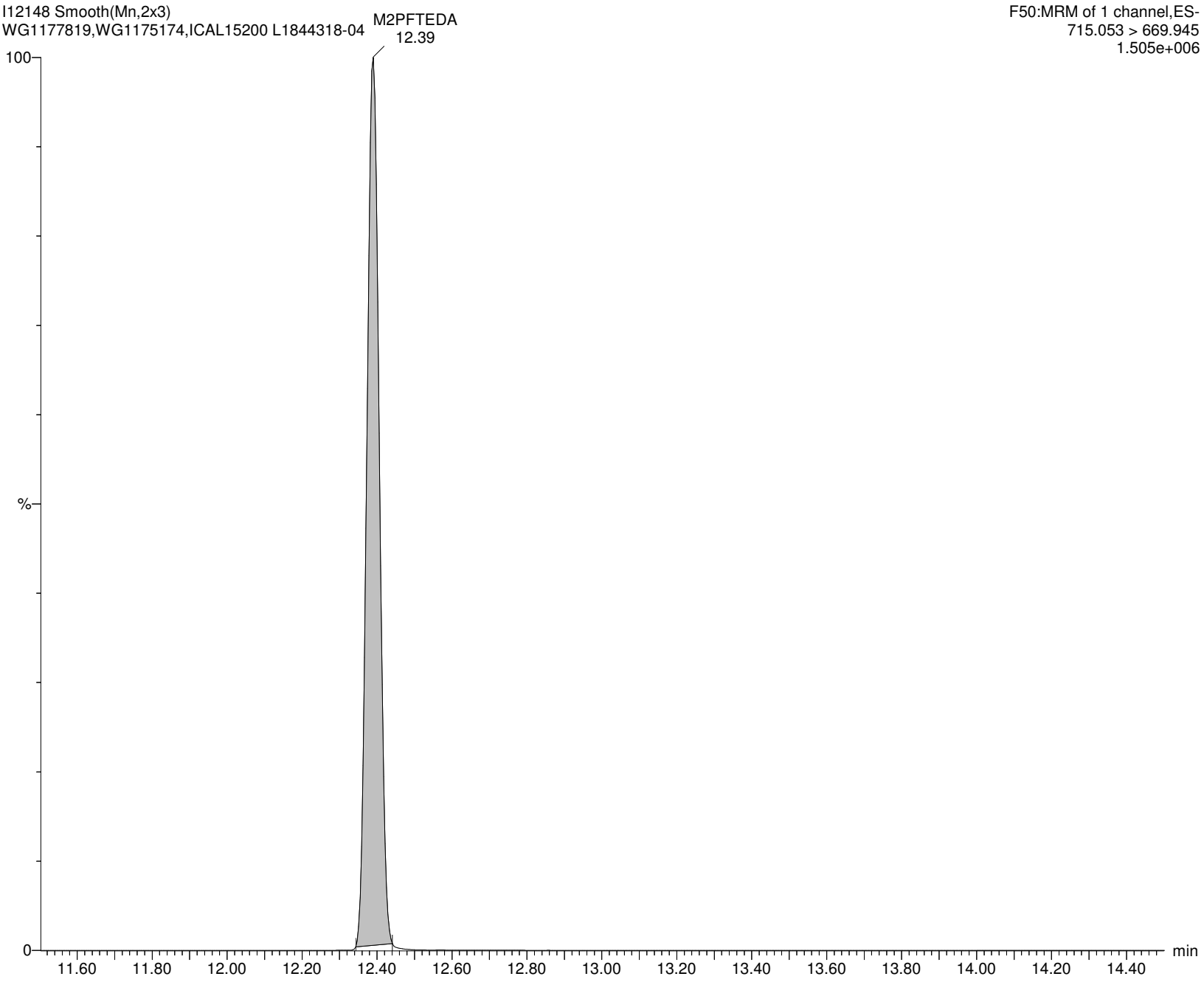

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:47 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-05
Name: I12149
Date: 10-Nov-2018
Time: 06:02:07
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	6242		1.624		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	41488		4.482		na	44.8
3	MPFBA	INT STD	2.14	216.926 > 172.137	43979		11.159		na	111.6
4	PFPeA	2706-90-3	5.12	262.926 > 219.002	1552		0.257		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	63983		12.581		na	125.8
6	PFBS	375-73-5	5.80	298.989 > 80.295	122		0.106		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	12931		9.688		na	96.9
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	7123		8.603		na	86.0
10	PFHxA	307-24-4	7.06	312.989 > 269.028	2078		0.260		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	82297		9.931		na	99.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	2072		0.190		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	110522		11.342		na	113.4
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	9646		13.010		na	130.1
19	br-PFOA	335-67-1	9.05	412.989 > 368.9	751		0.075	3.16	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	4056		0.404	8.88	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	115033		6.092		na	60.9
22	PFOA	335-67-1		412.989 > 368.9	4807		0.479		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	102958		11.099		na	111.0
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4449		6.473		na	64.7
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1	10.02	462.989 > 418.931	709		0.090		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	93976		10.157		na	101.6
29	br-PFOS	1763-23-1	9.83	498.989 > 80.294	403		0.243	3.76	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	659		0.557	1.62	YES	
31	PFOS	1763-23-1		498.989 > 80.294	1063		0.799		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10707		6.610		na	66.1
33	M8PFOS	INT STD	10.07	507.053 > 80.294	11338		11.355		na	113.5
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	84348		5.674		na	56.7
36	M6PFDA	INT STD	10.65	519.053 > 473.931	78581		10.318		na	103.2
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2494		6.179		na	61.8
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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ID: L1844318-05
Name: I12149
Date: 10-Nov-2018
Time: 06:02:07
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6430		7.832		na	78.3
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	78917		12.380		na	123.8
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	5522		2.032		na	20.3
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5945		7.506		na	75.1
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	74842		10.450		na	104.5
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	63494		11.969		na	119.7

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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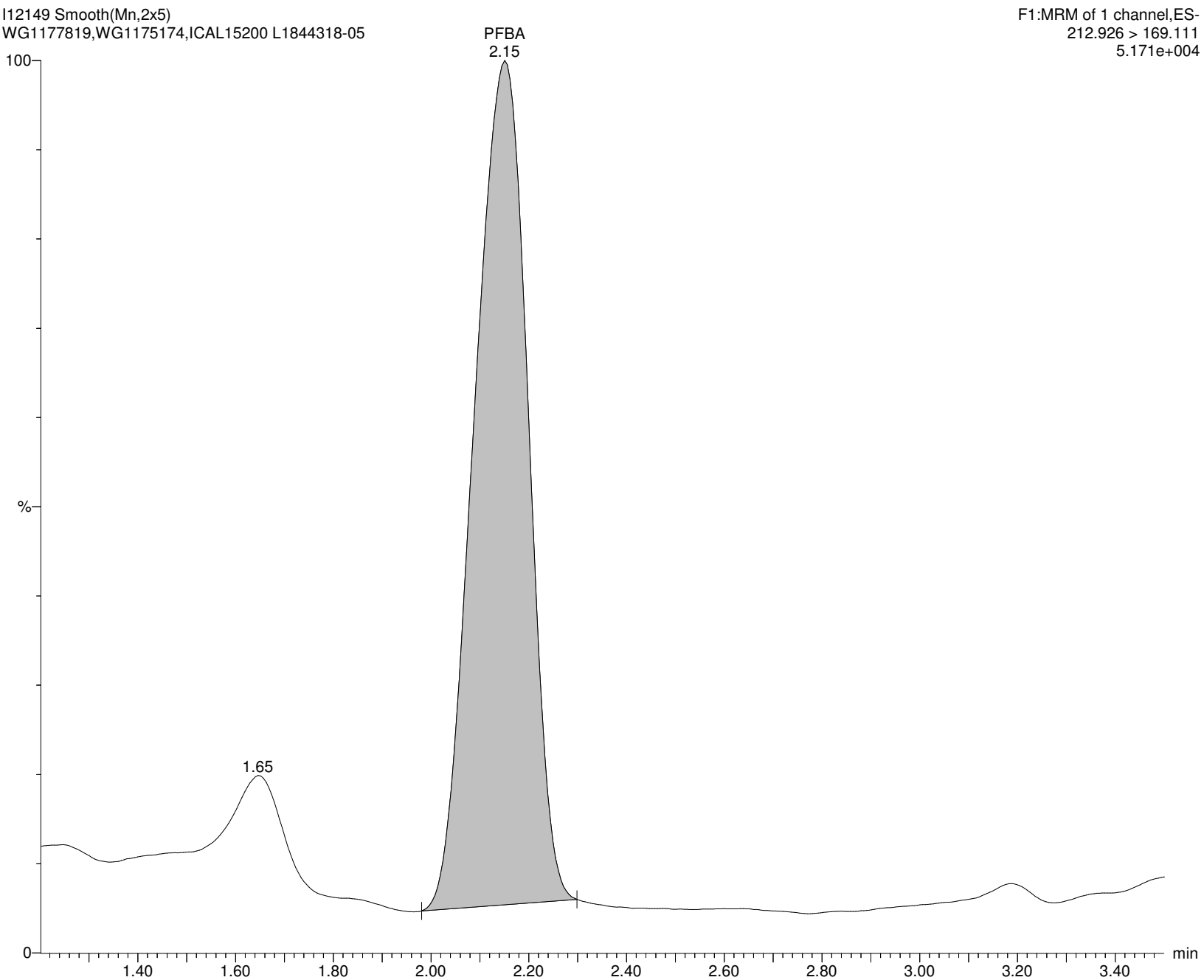

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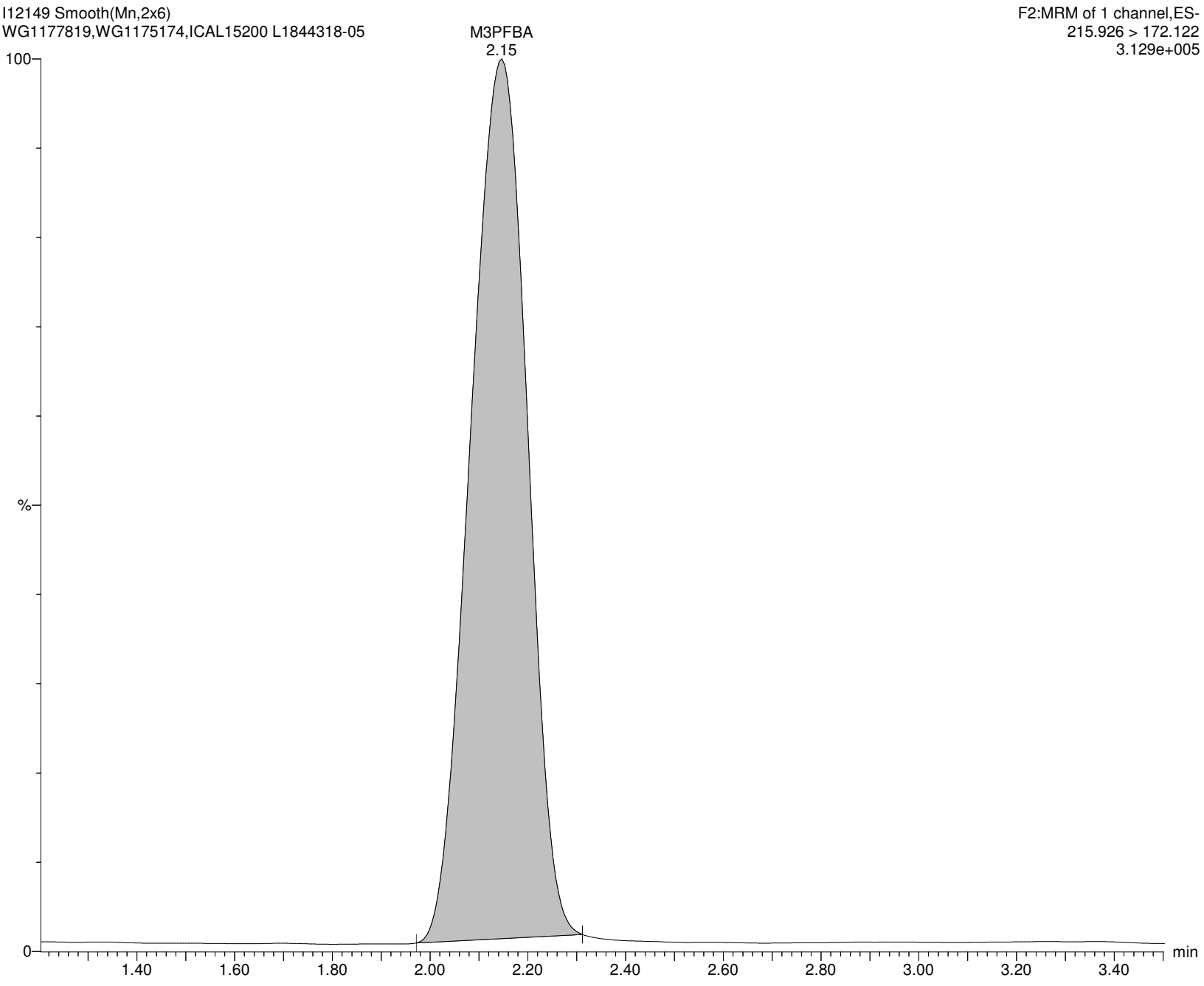

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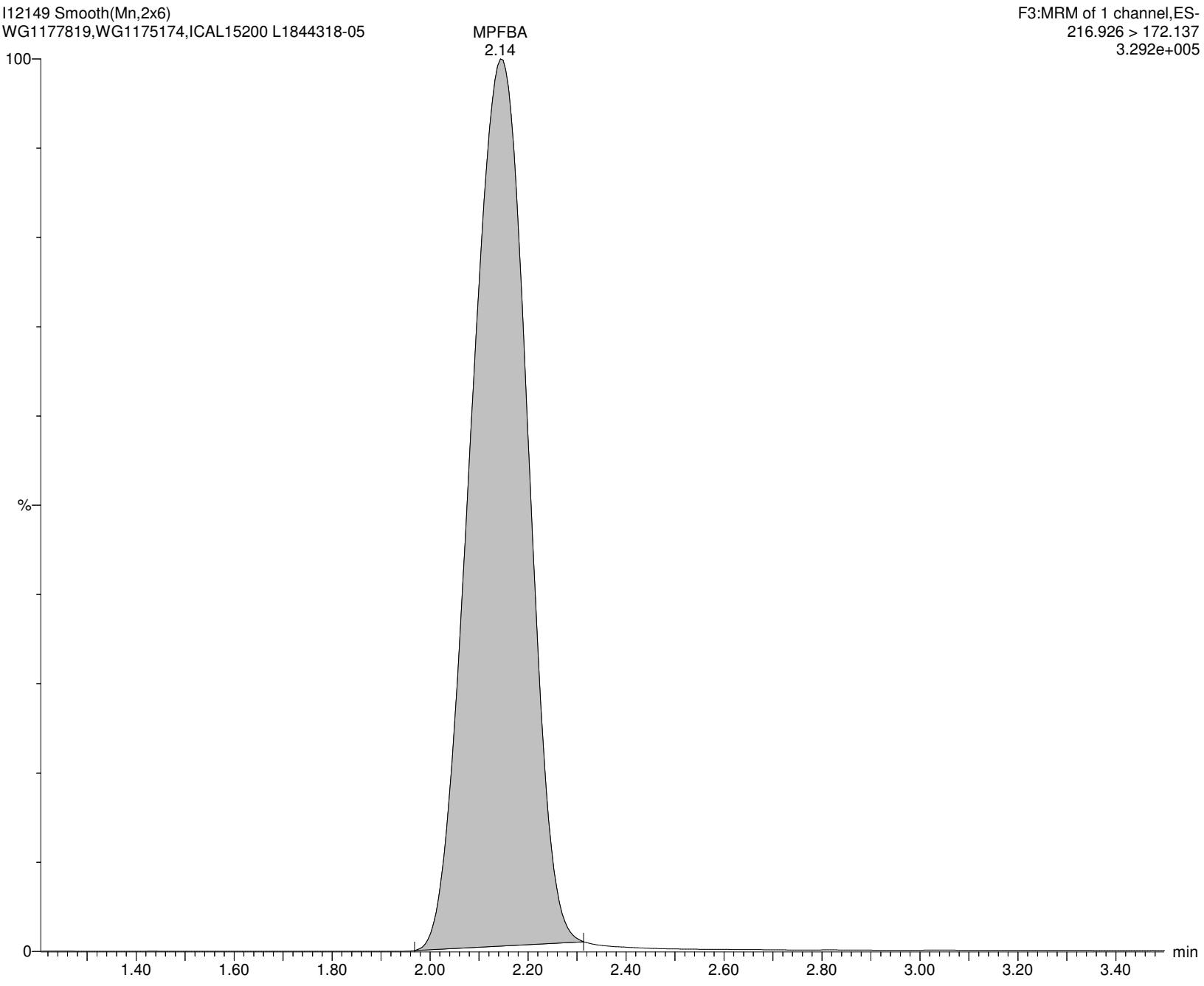

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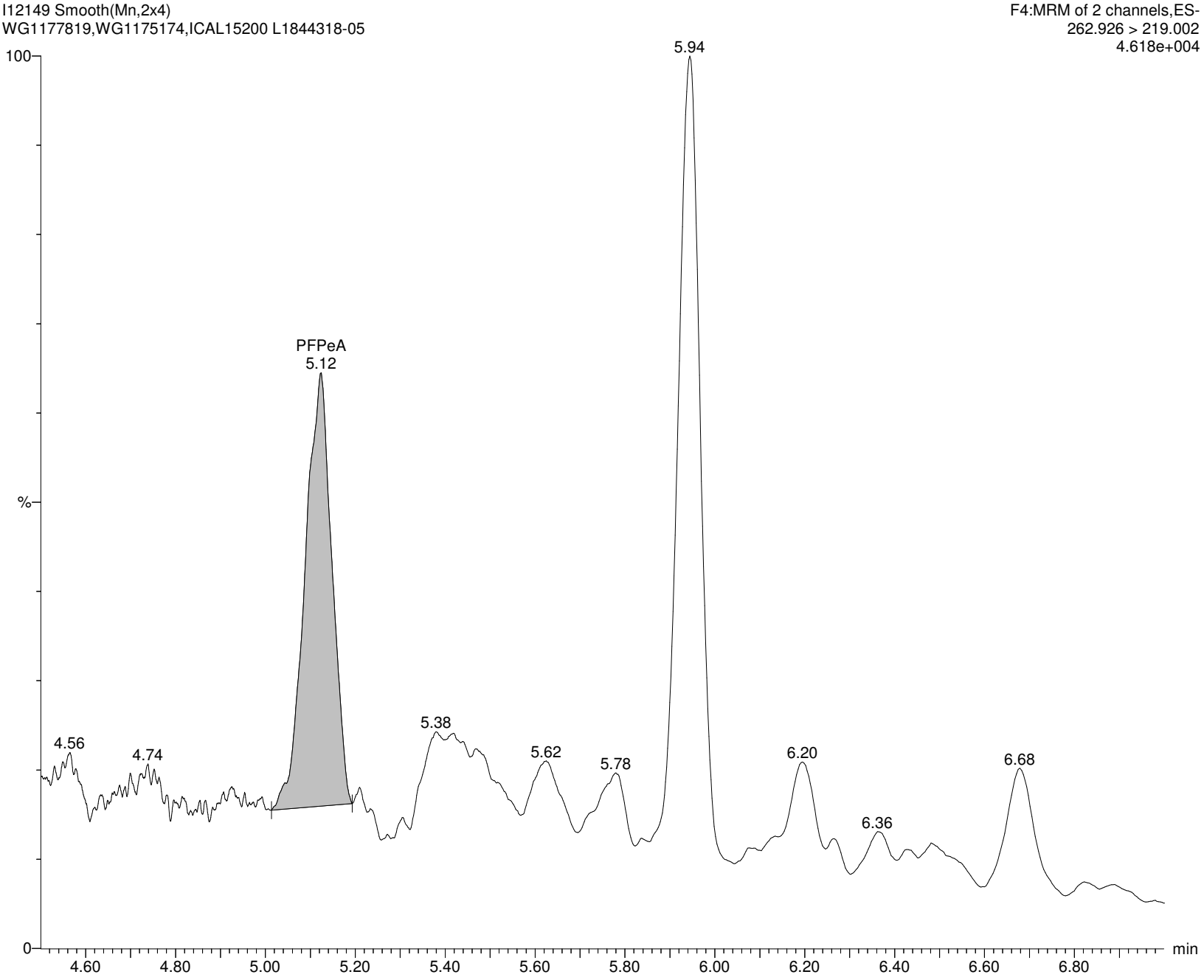

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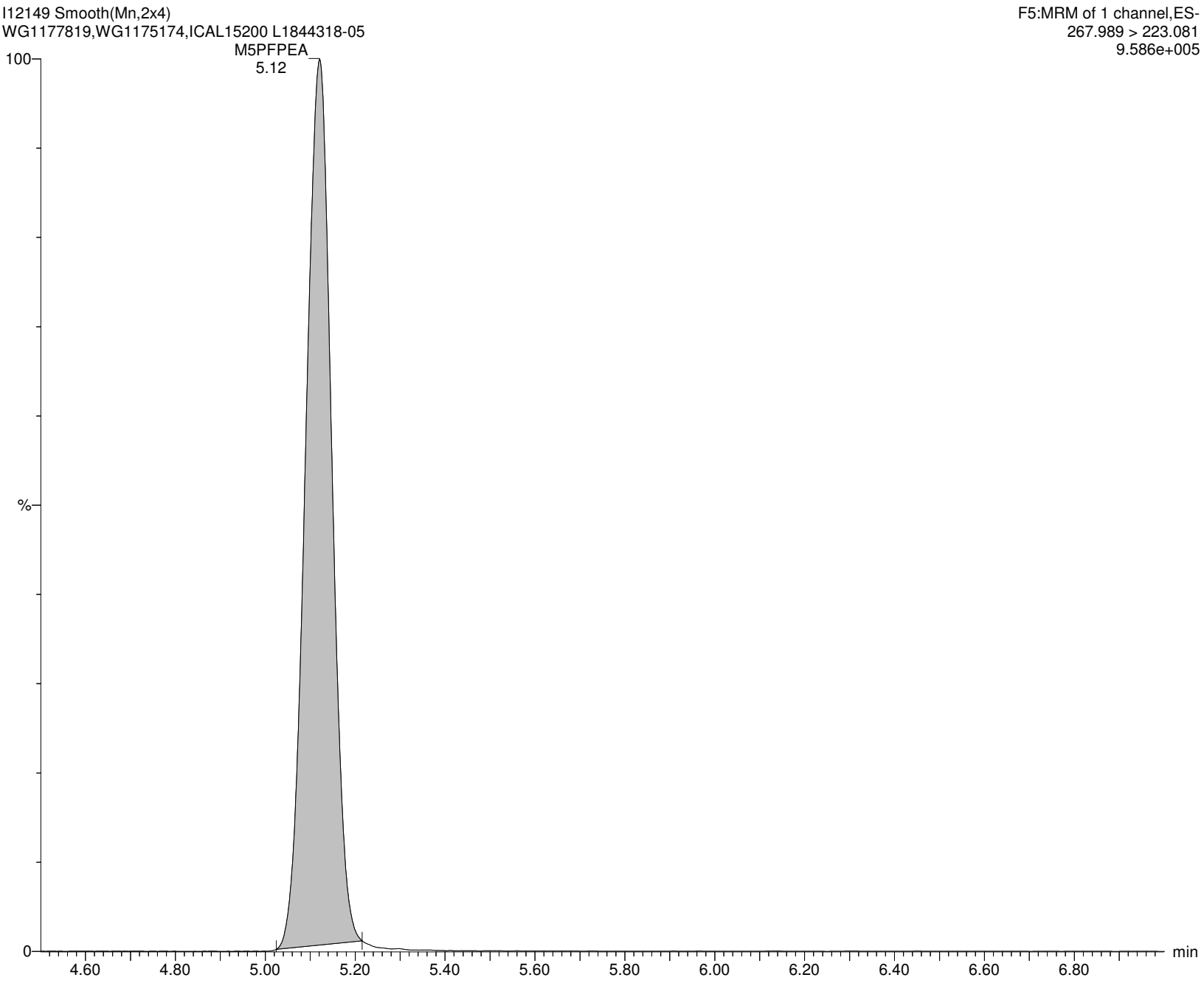

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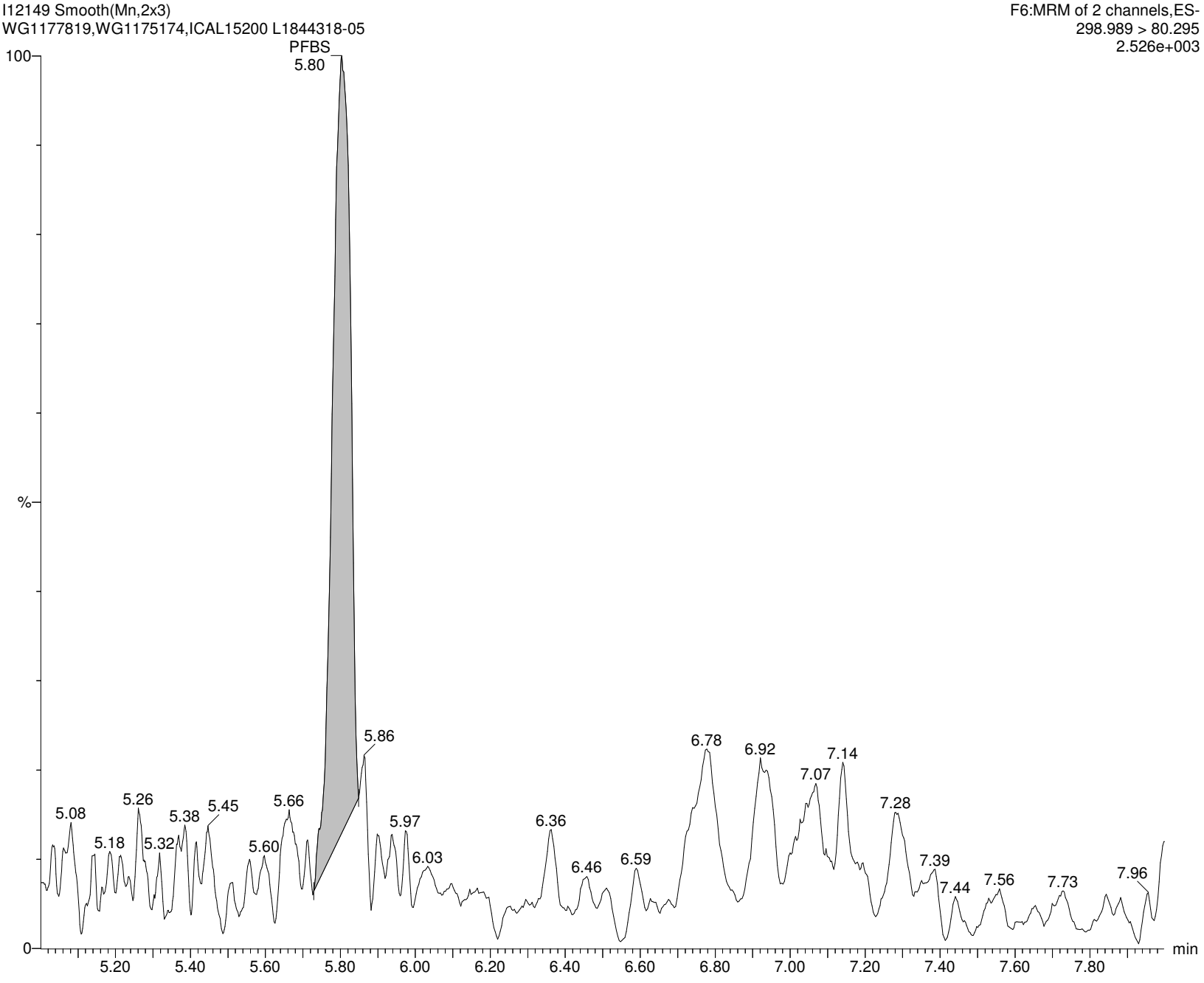

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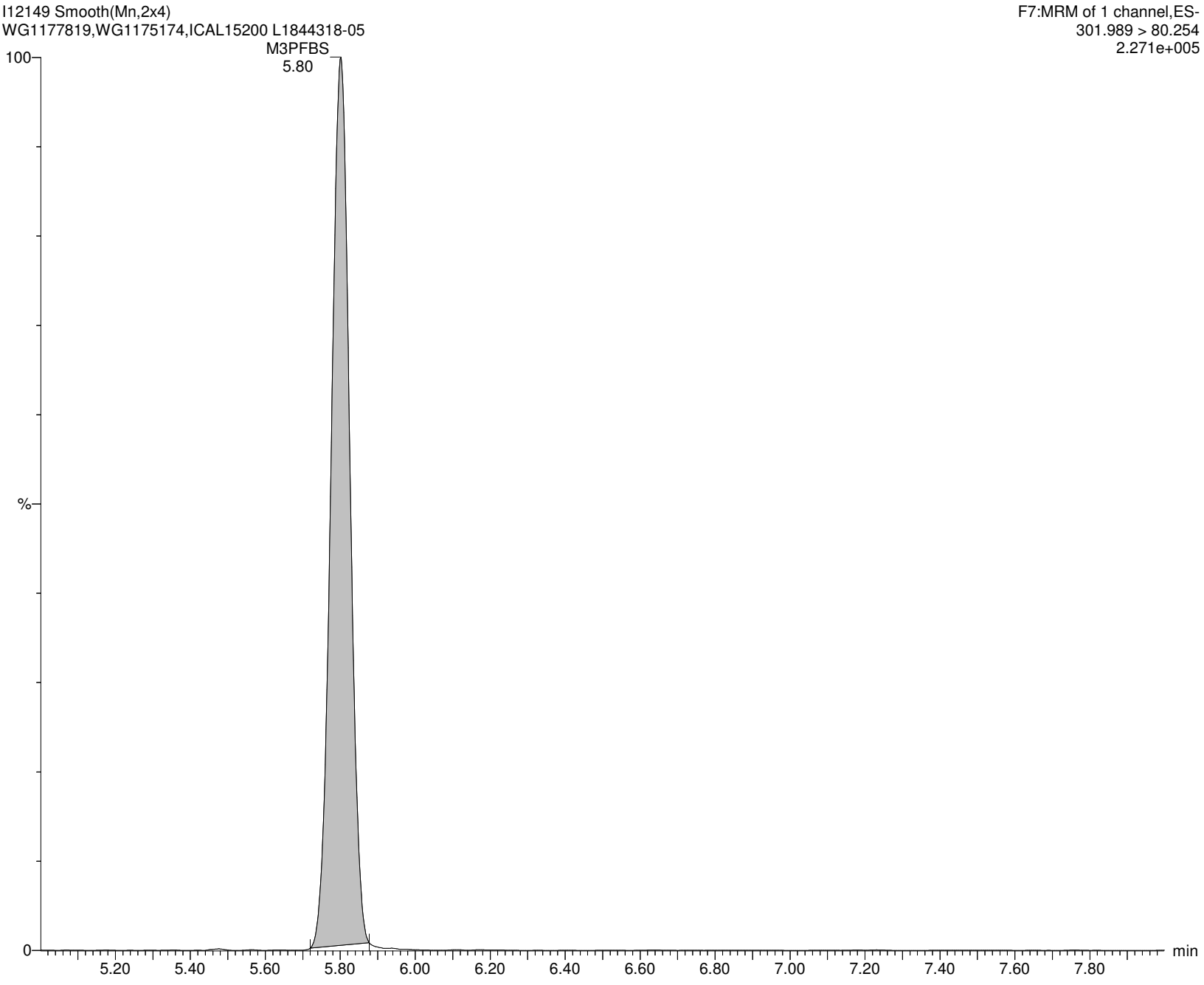

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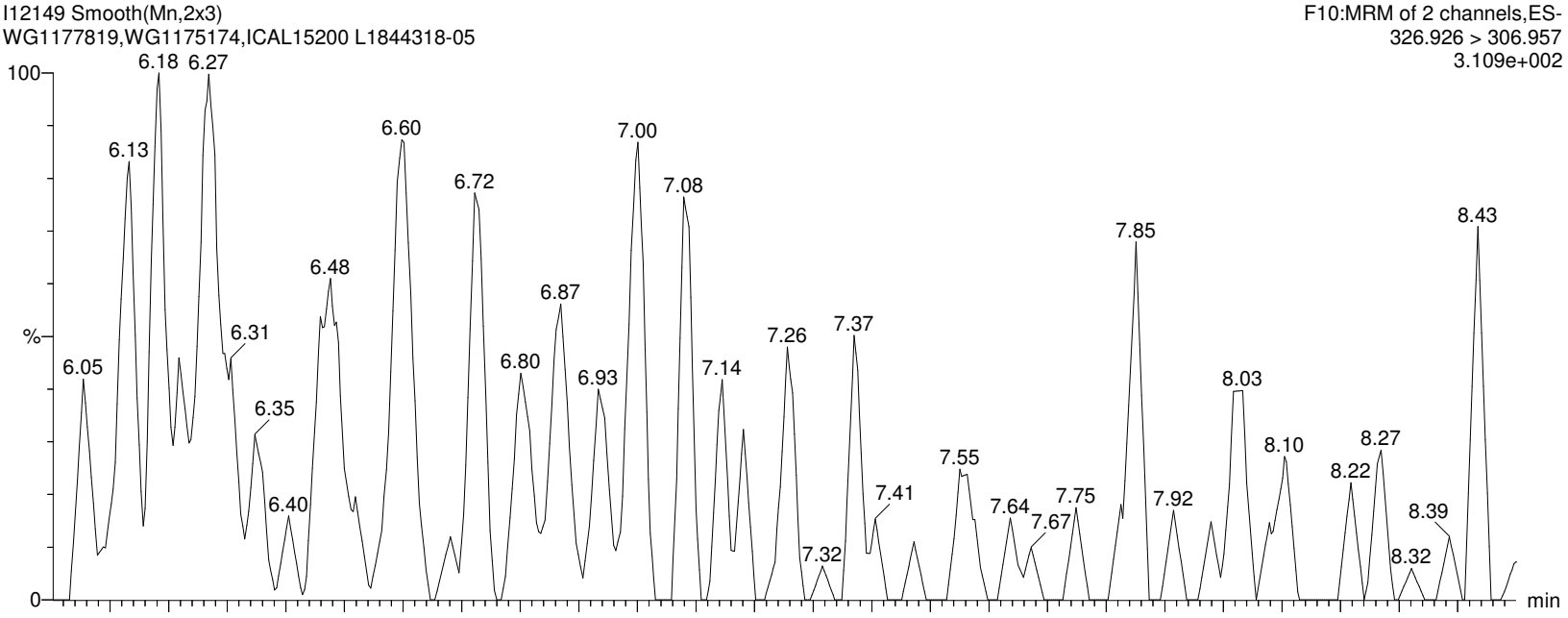

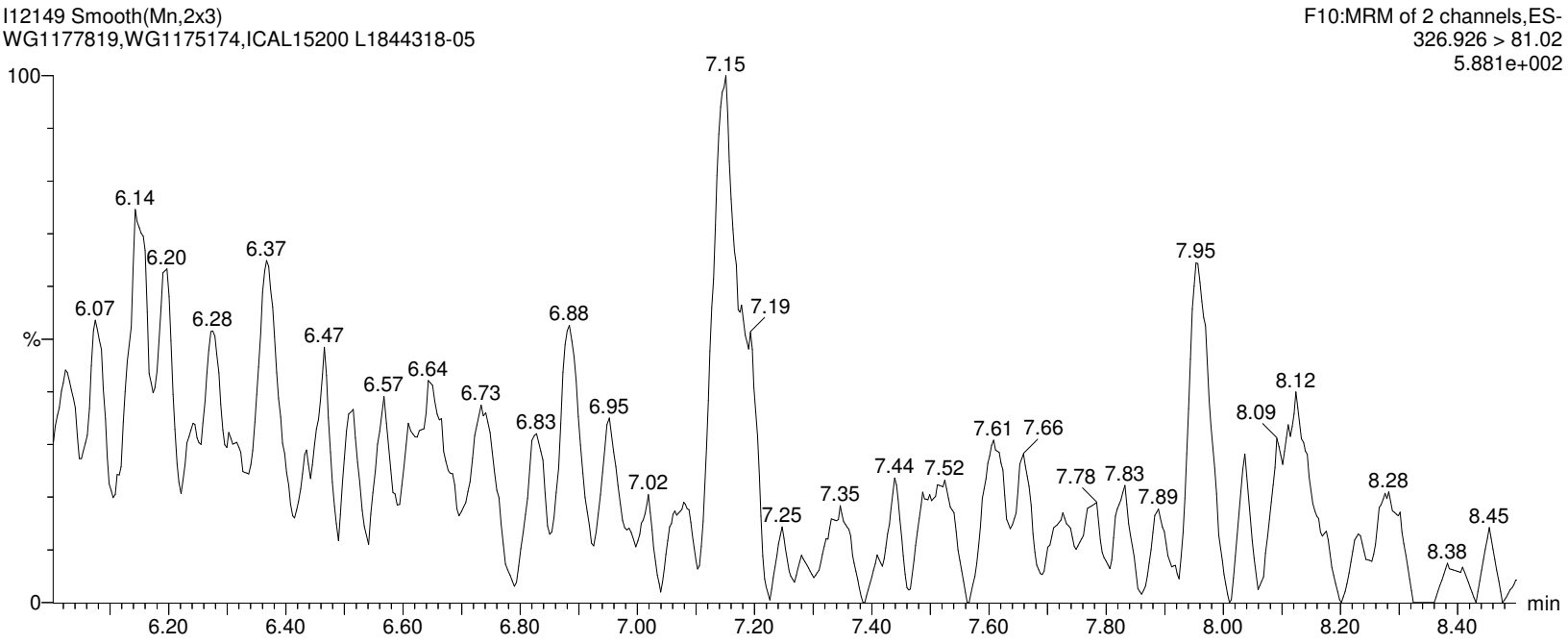

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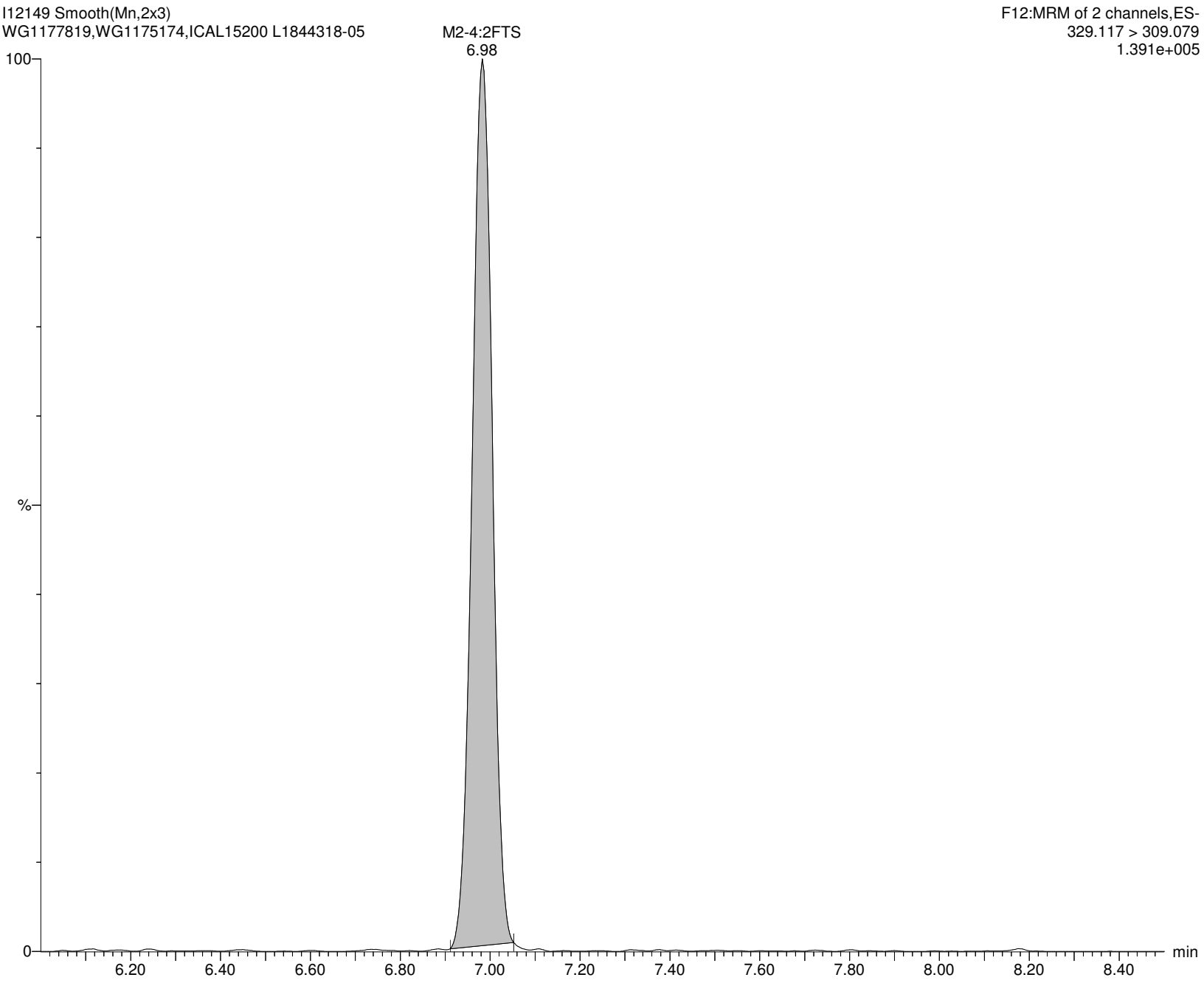

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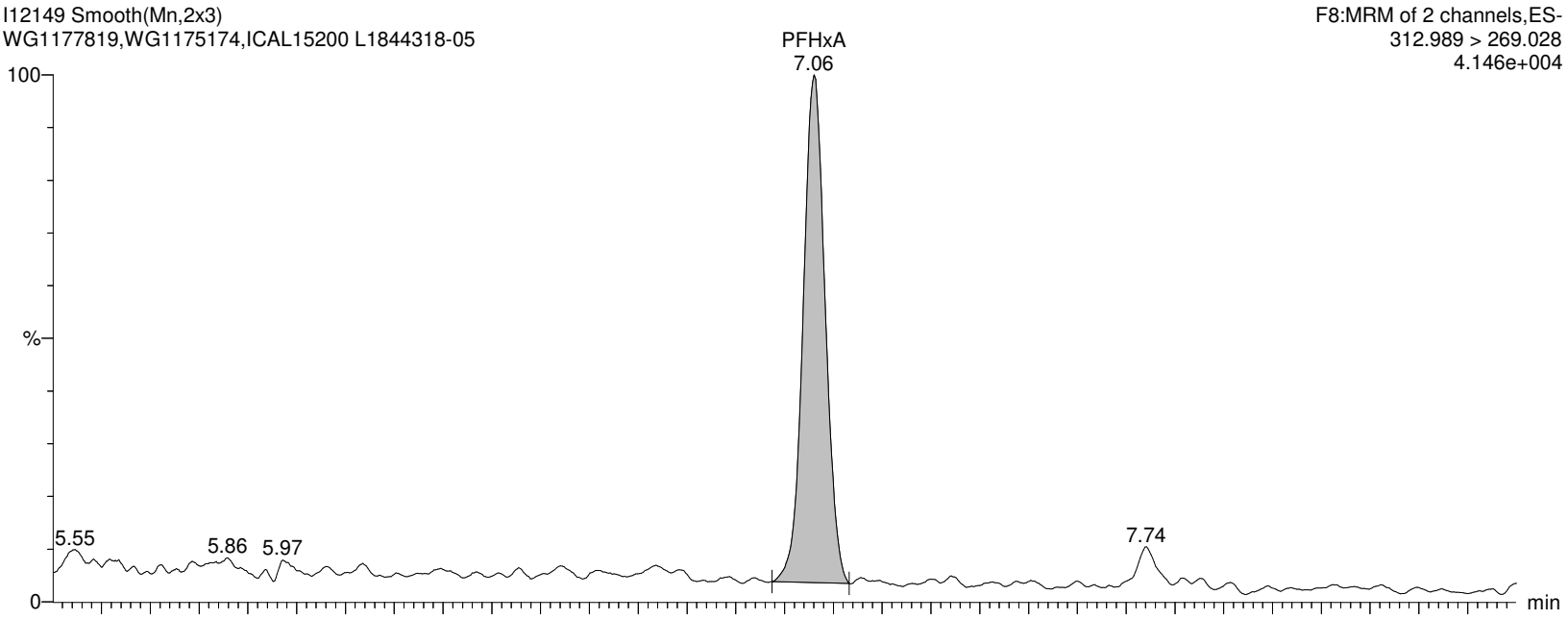
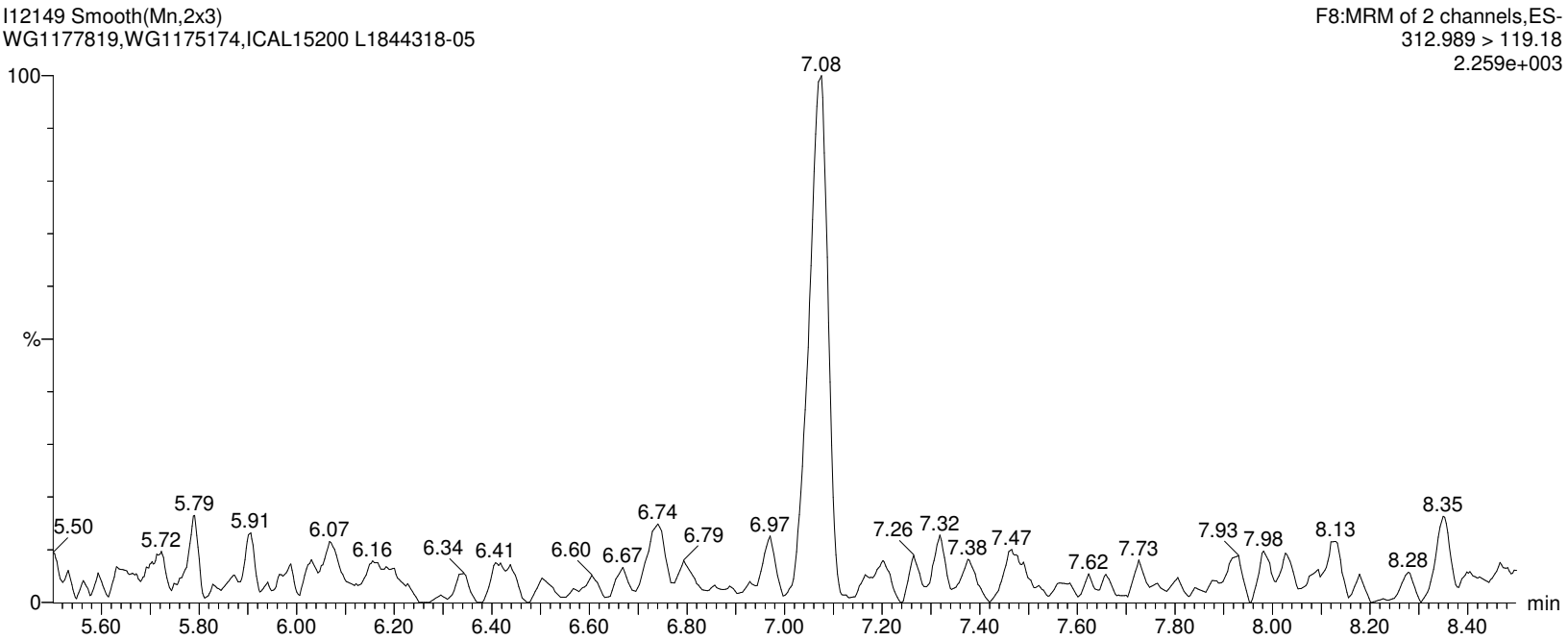
PFHxA





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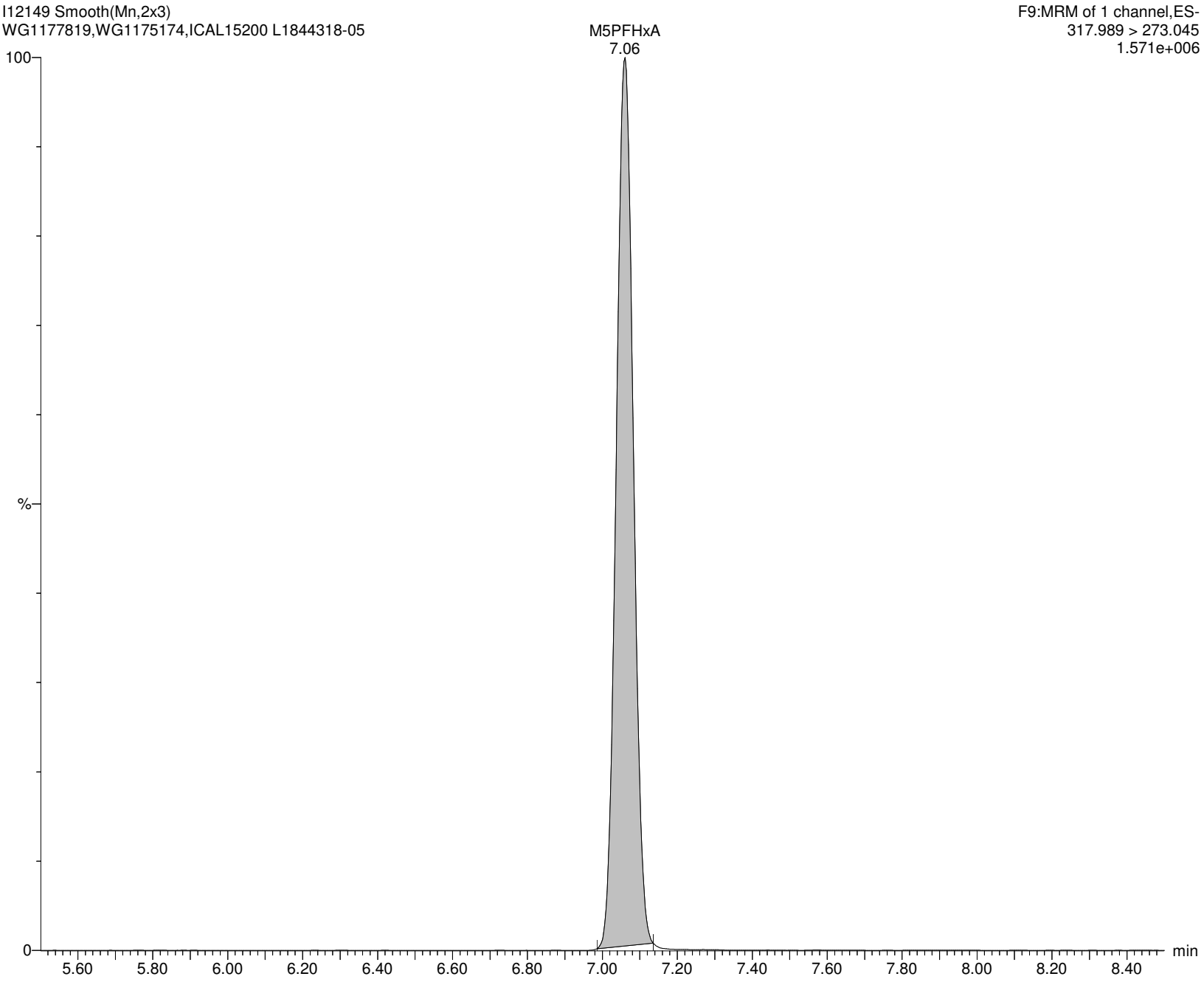

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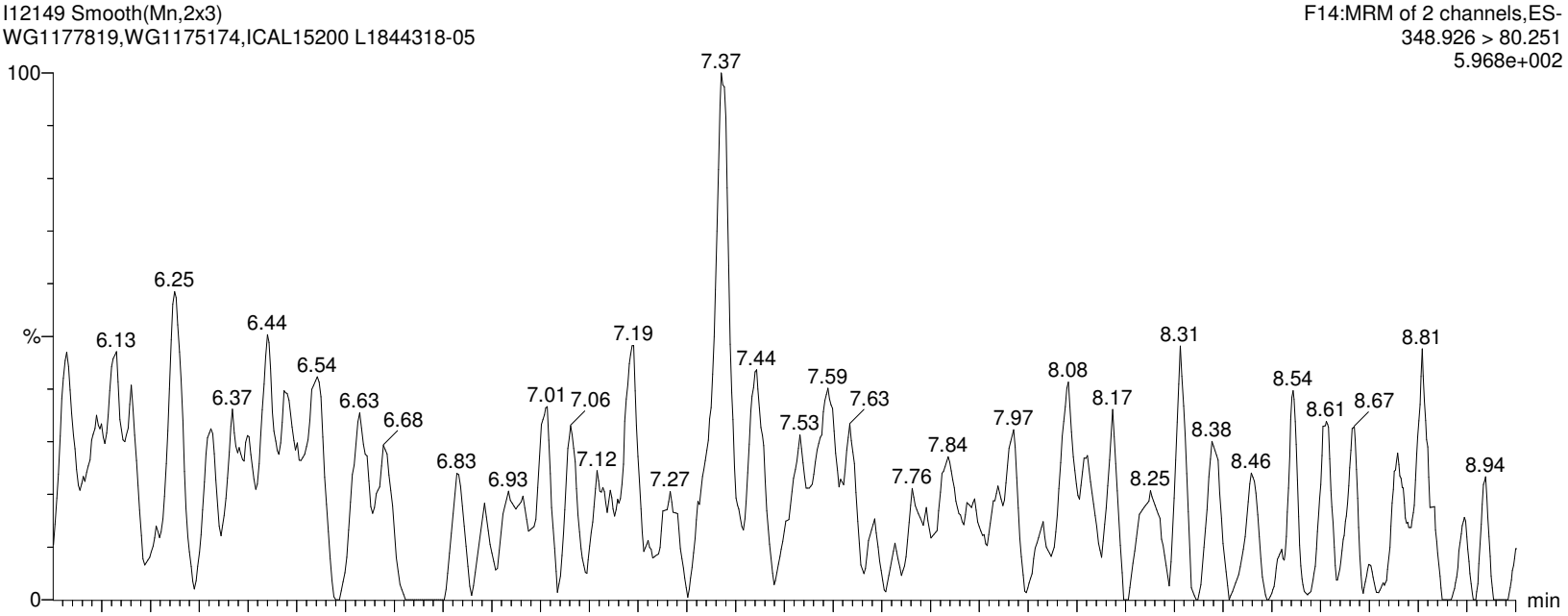

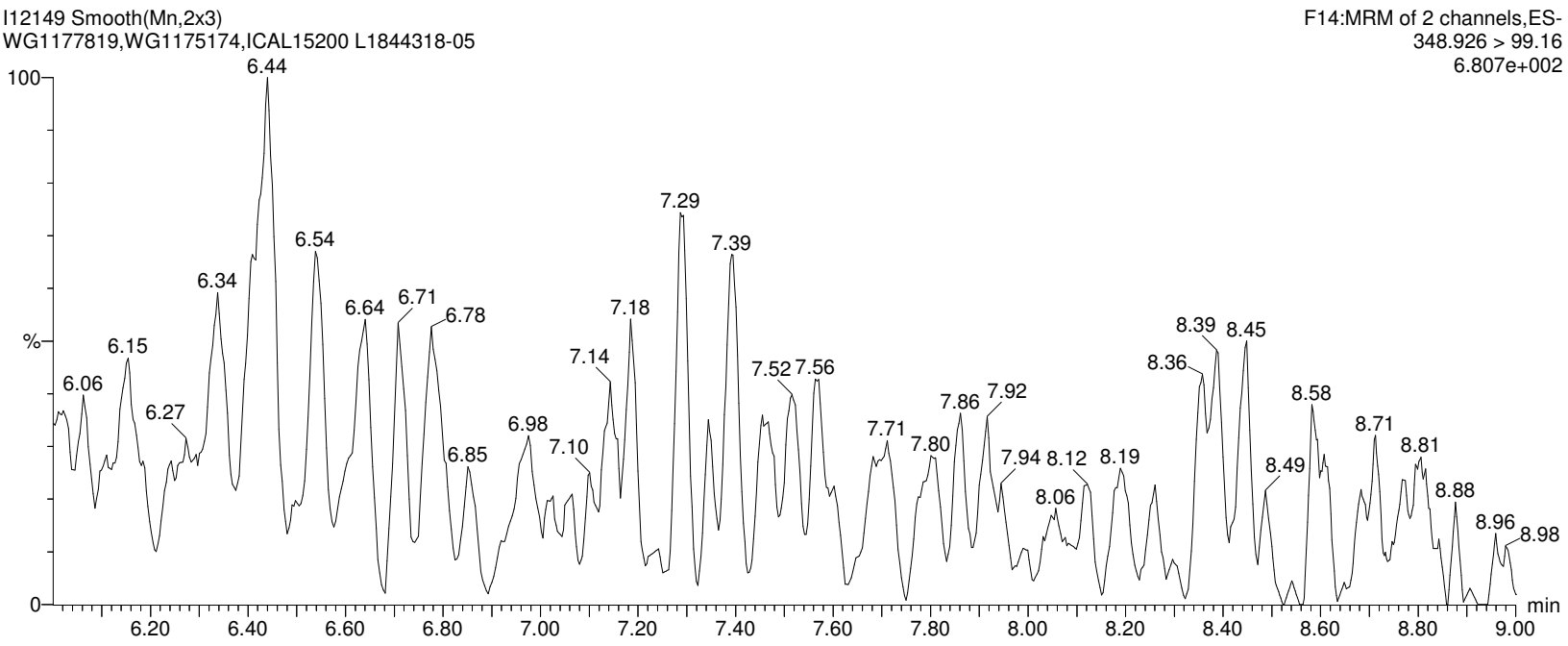

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Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
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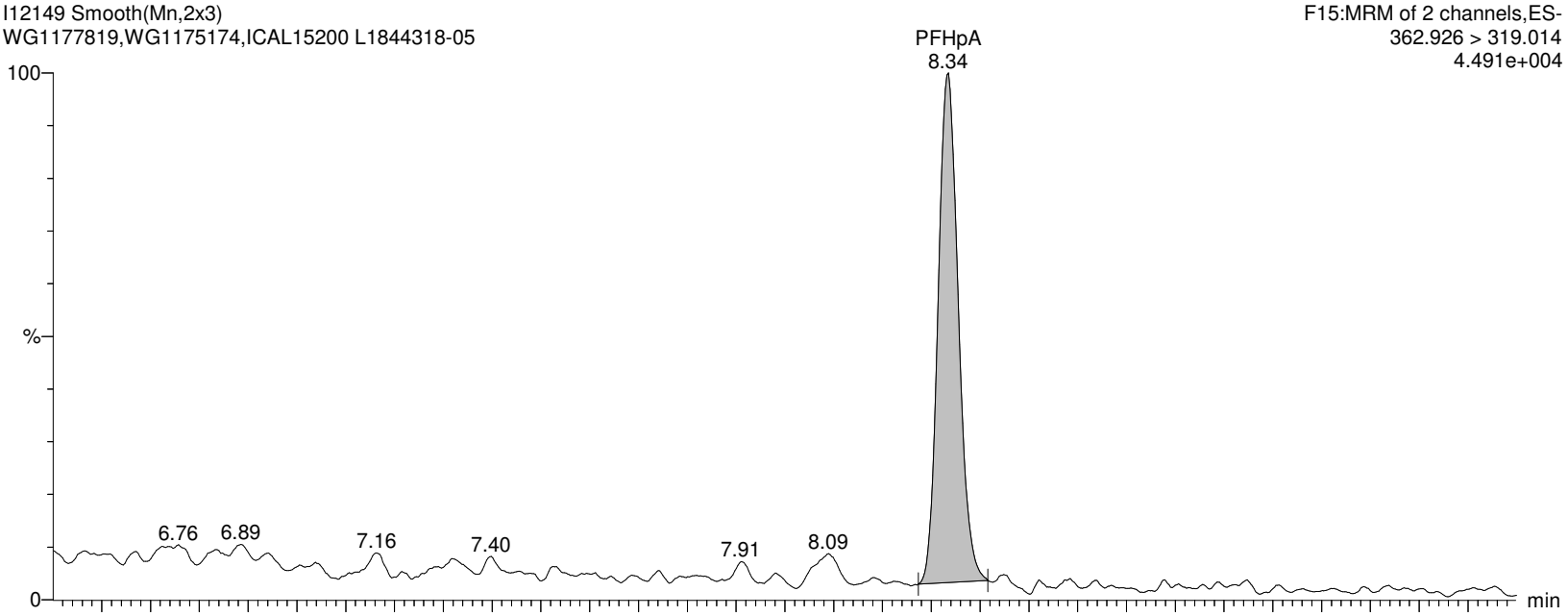

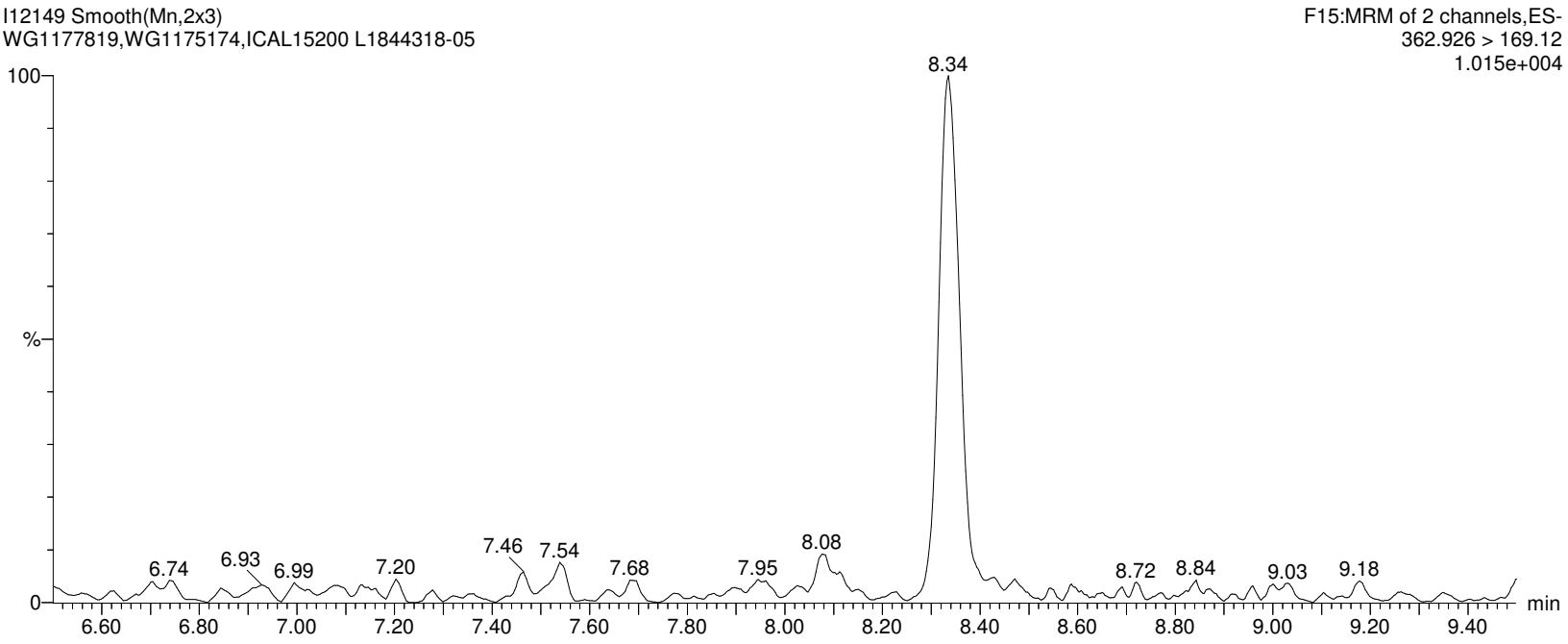

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:47 Eastern Standard Time

Name: I12149
ID: L1844318-05
Date: 10-Nov-2018
Time: 06:02:07
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
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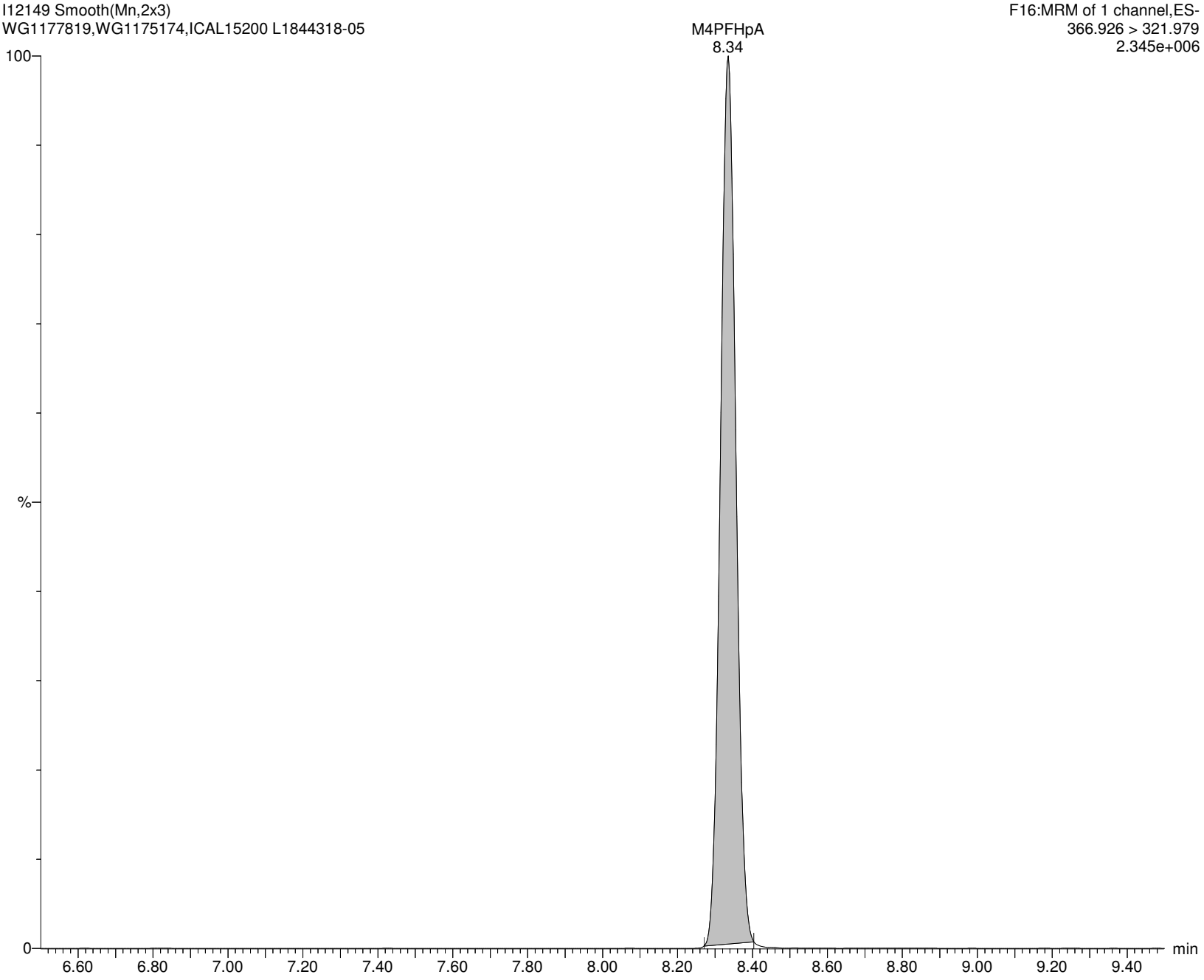

all concentration units in (ng/mL)

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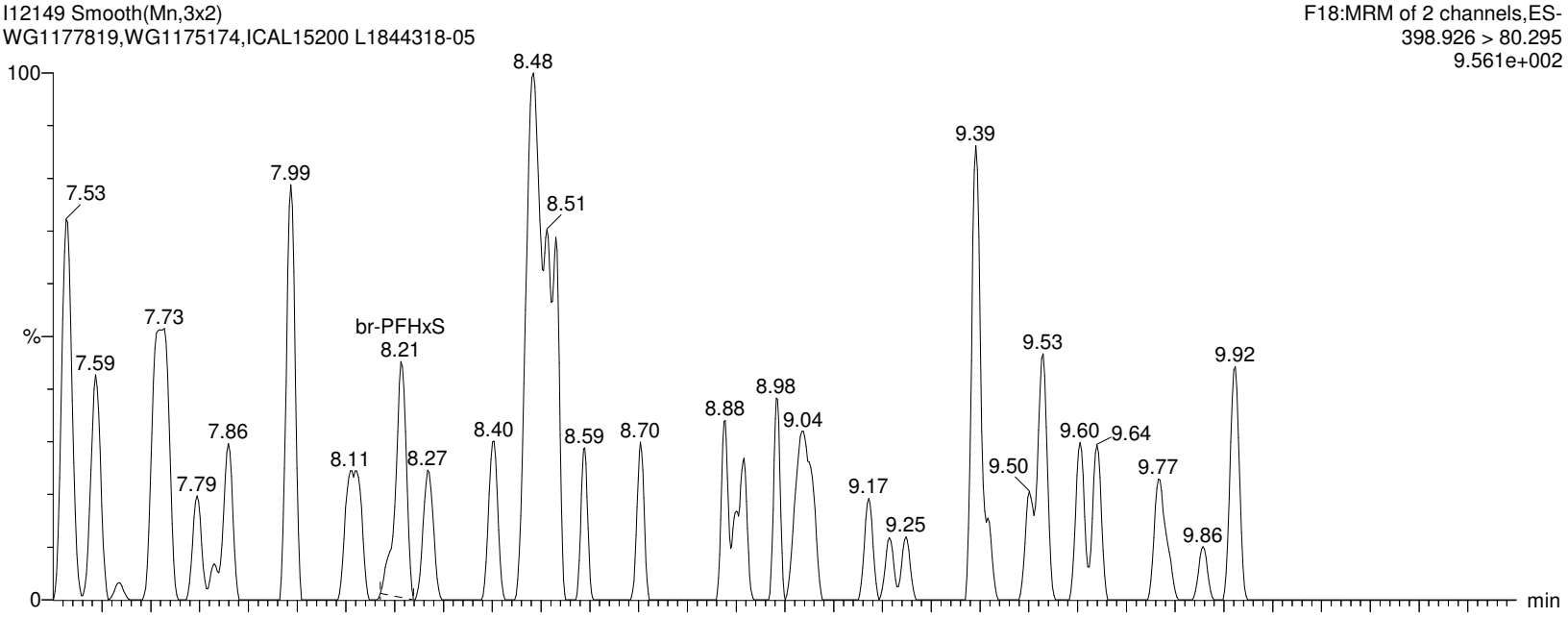

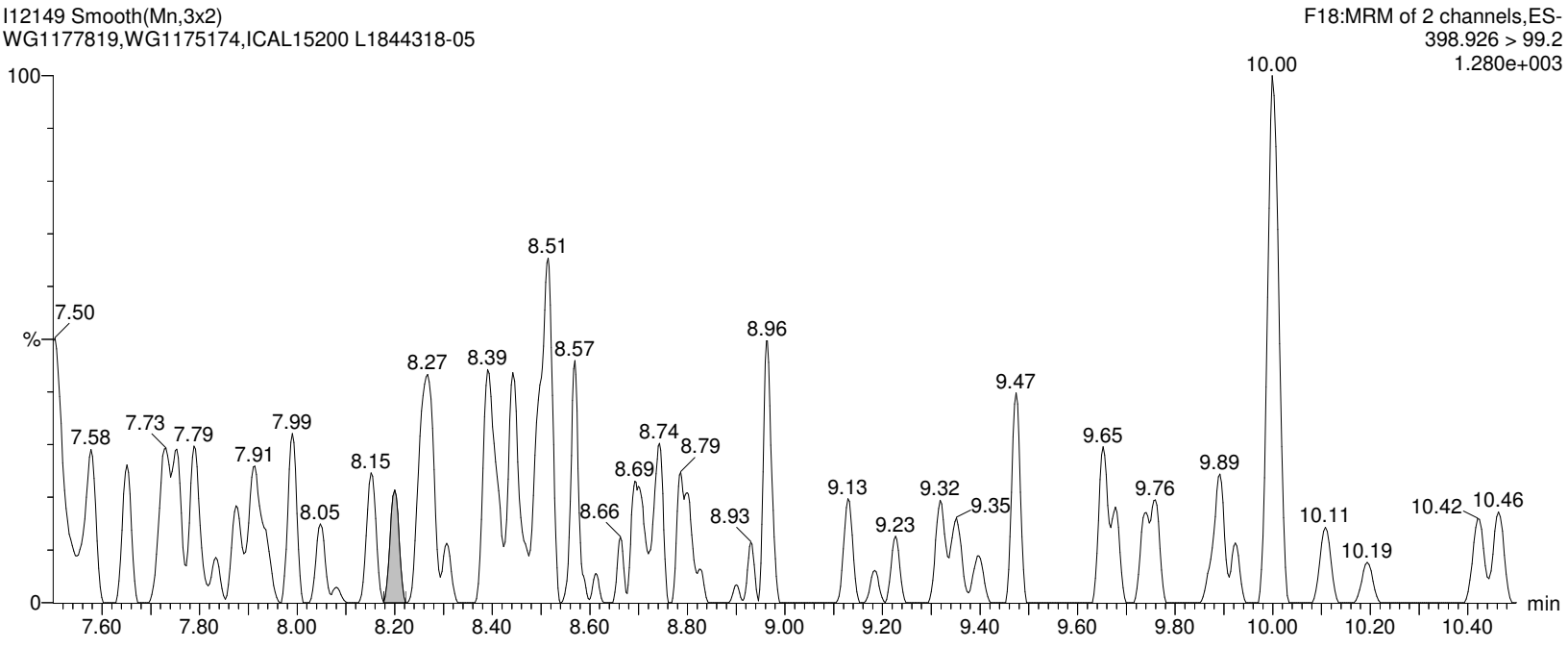

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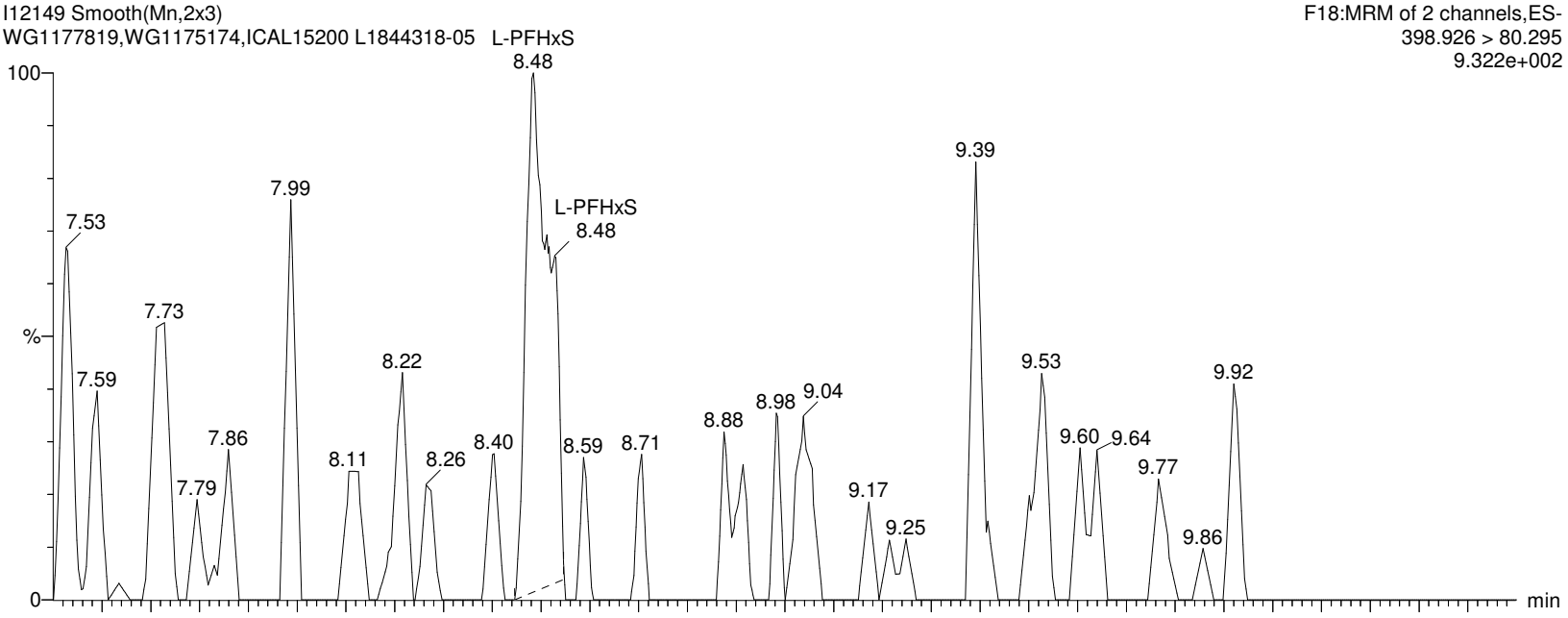

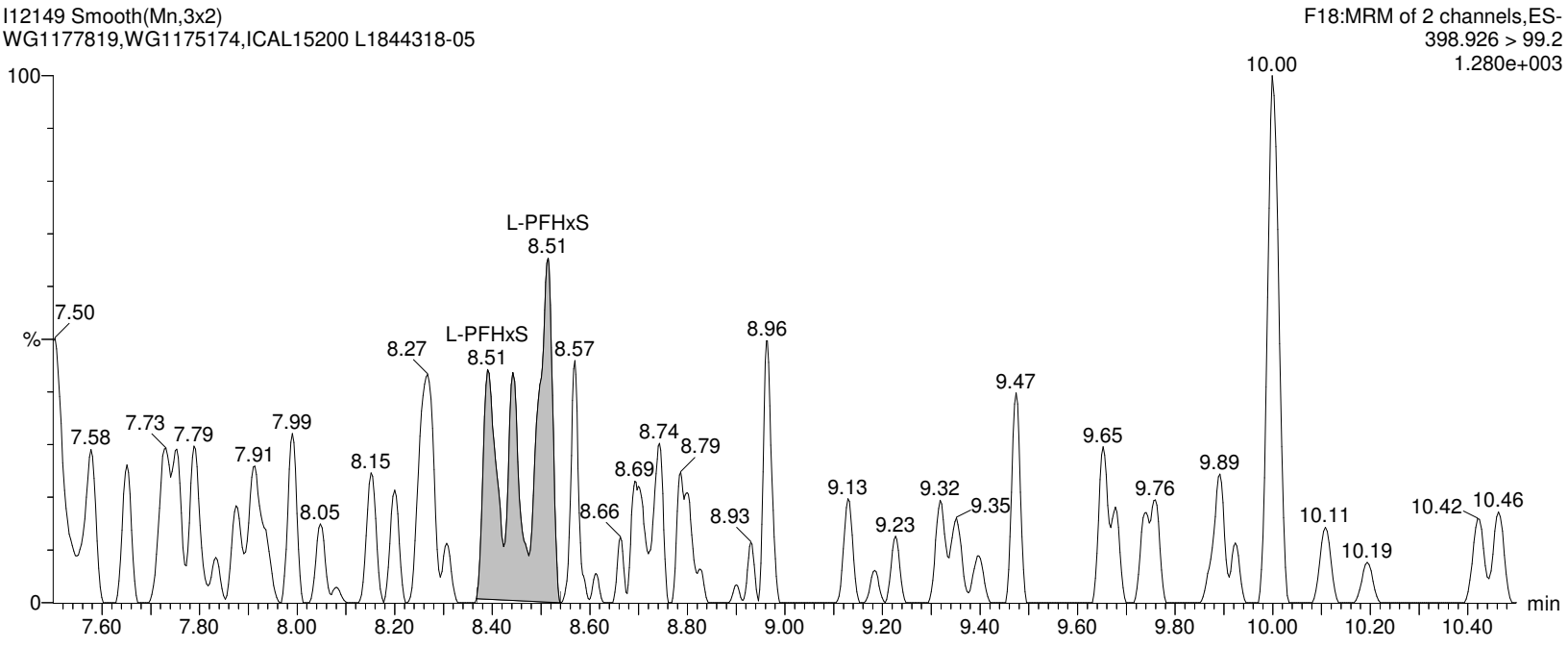

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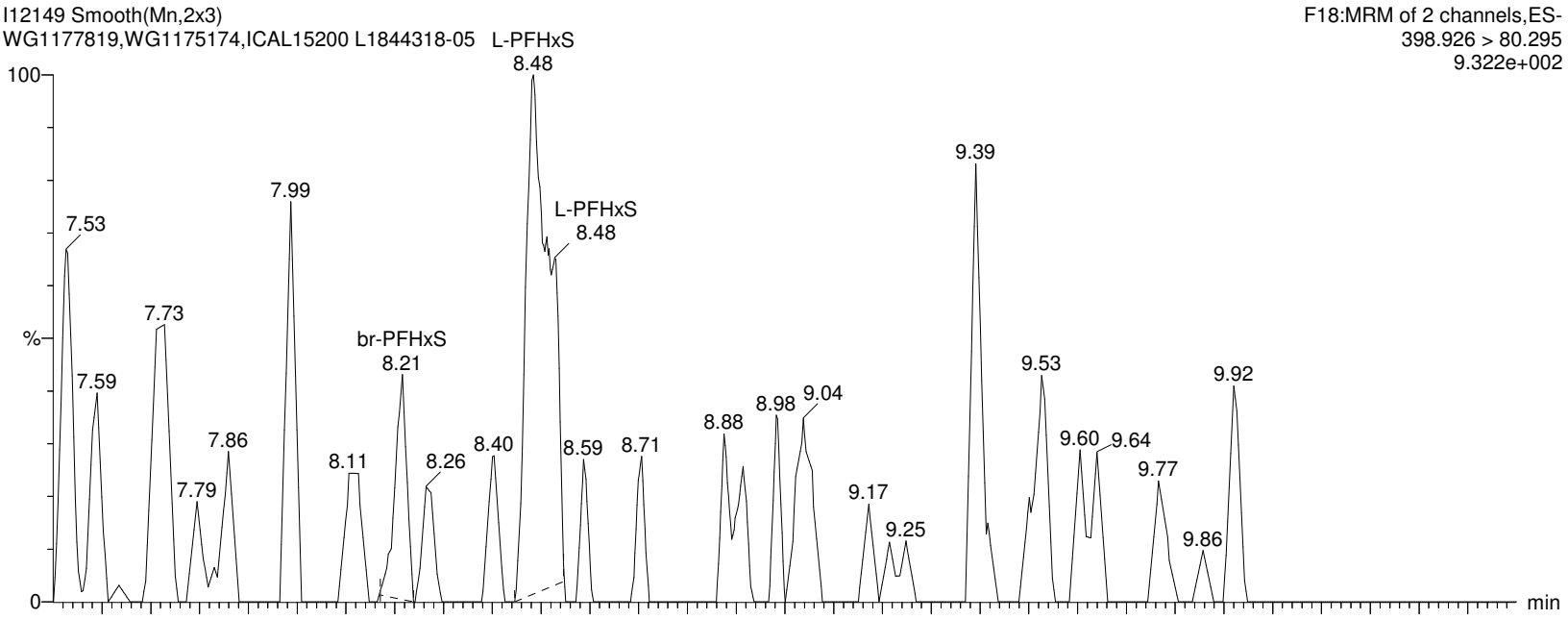

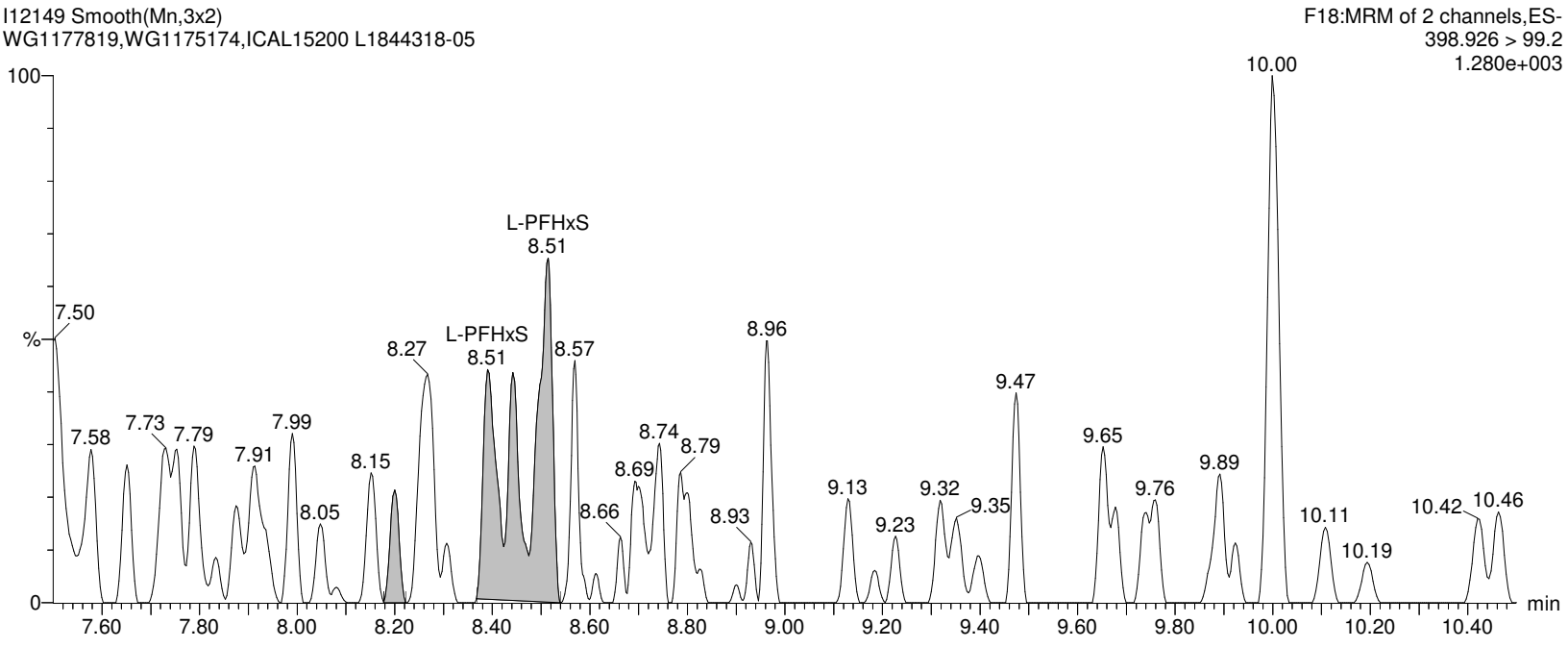

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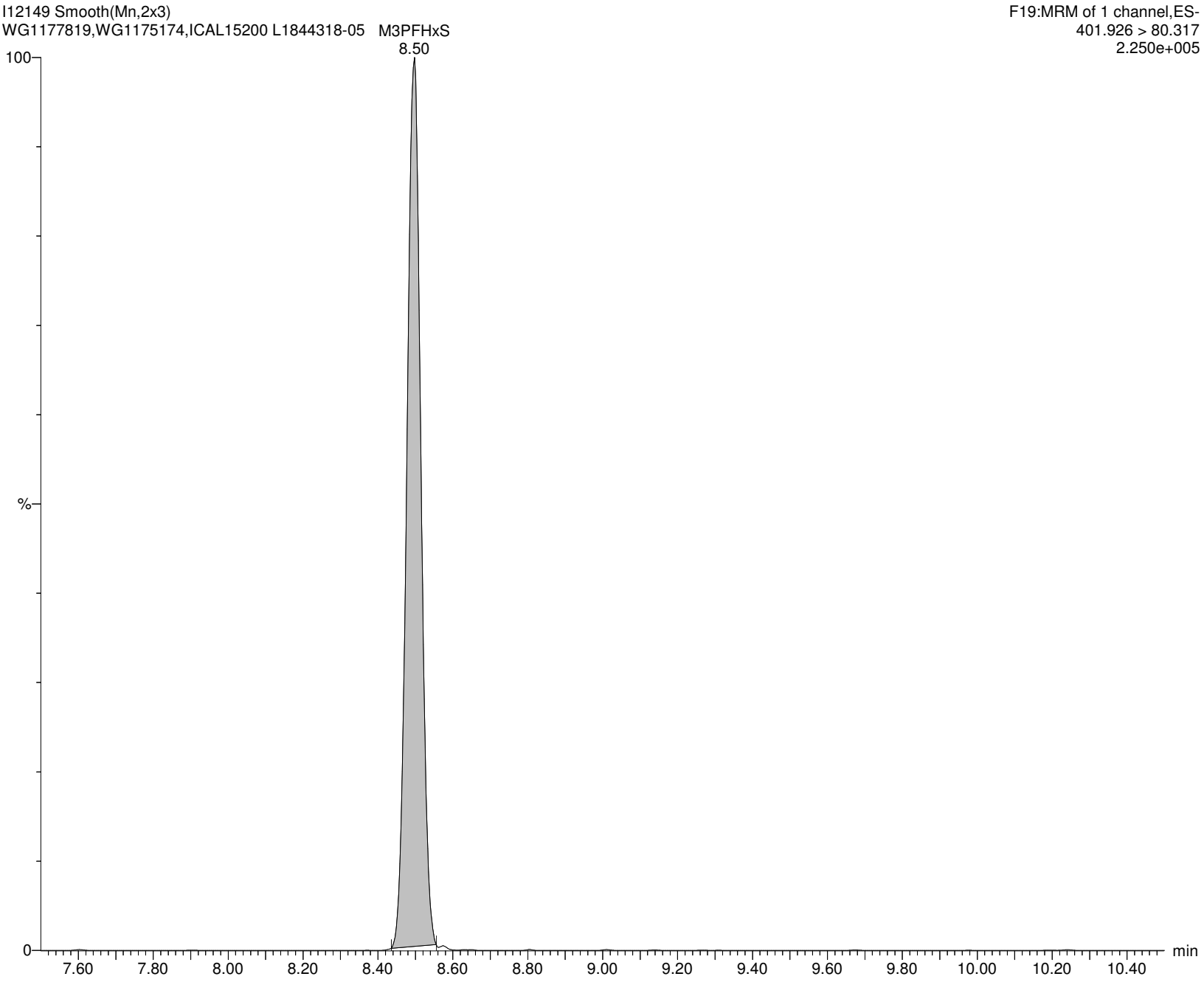

all concentration units in (ng/mL)

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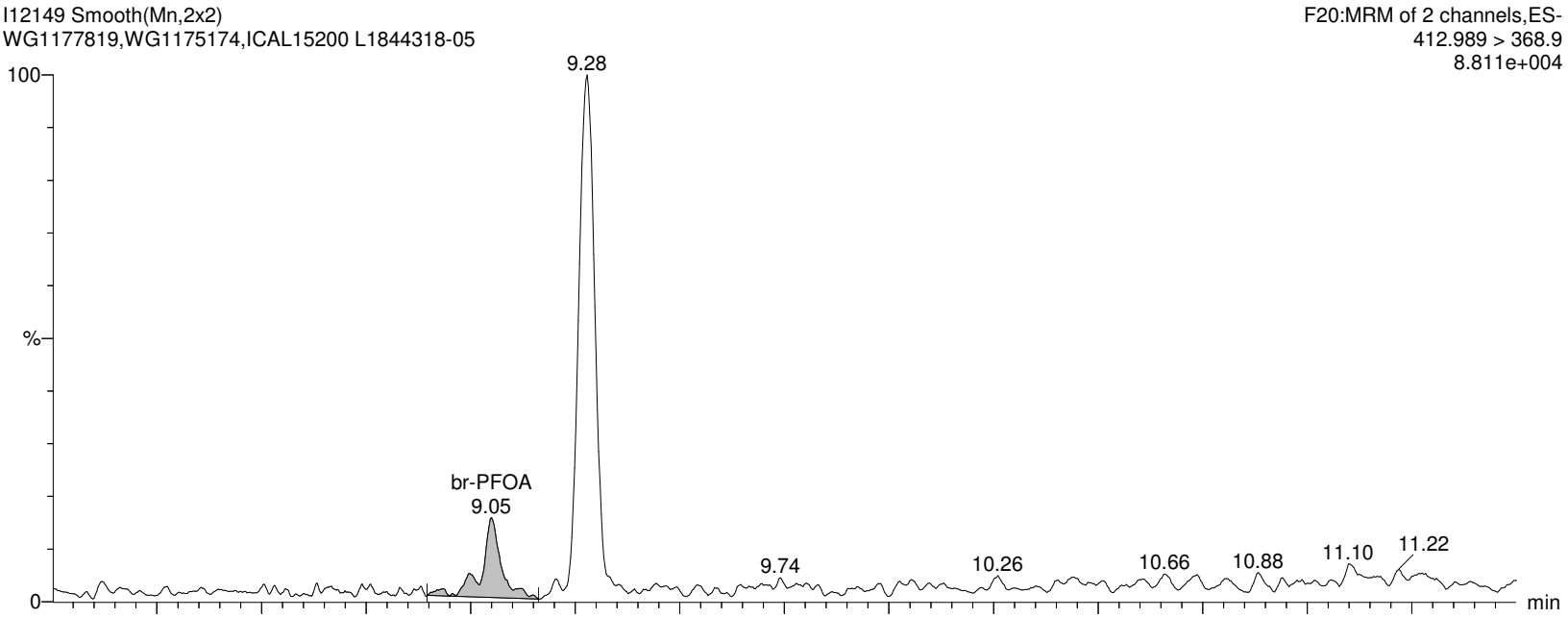

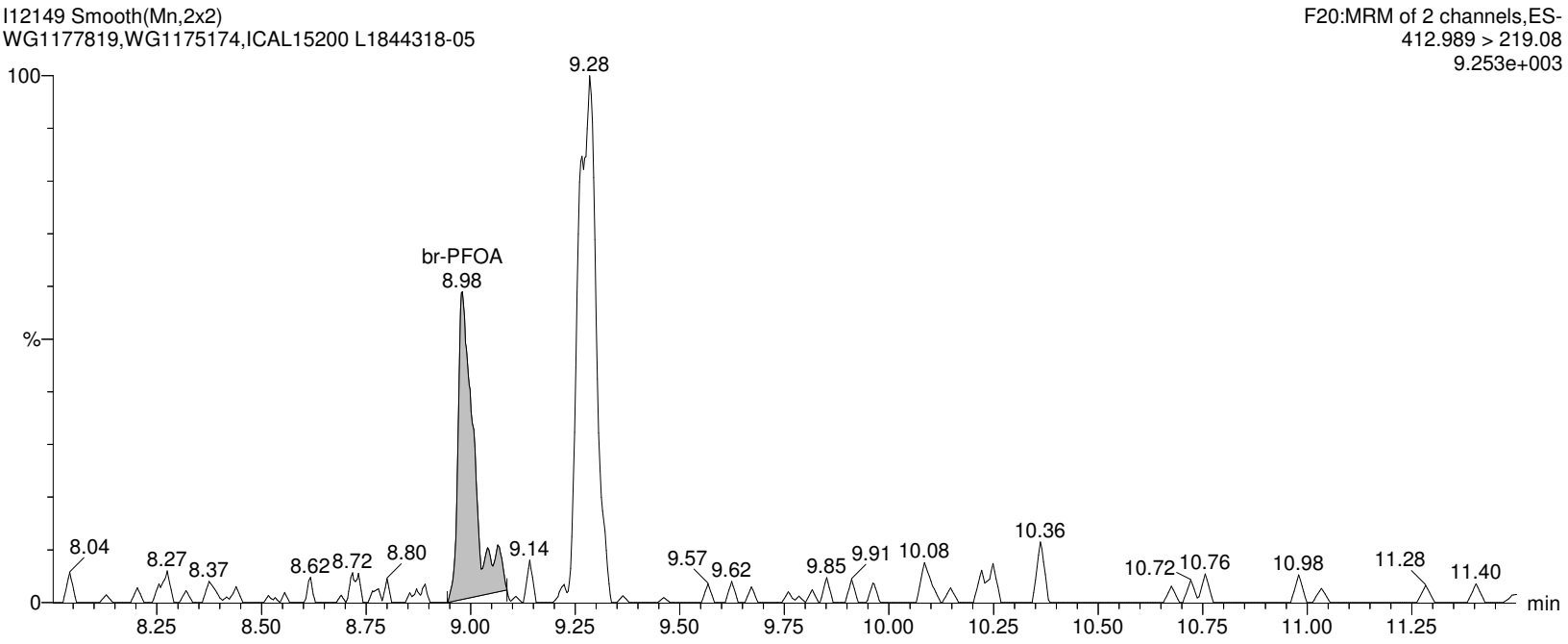

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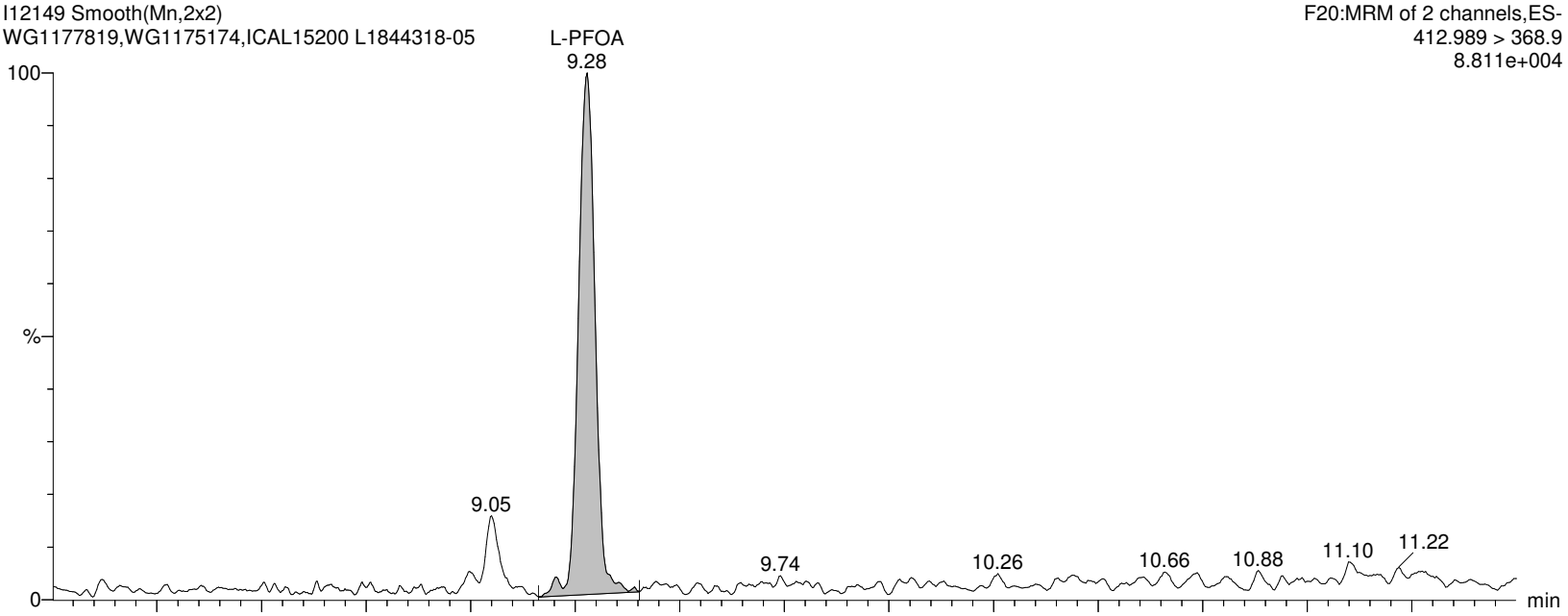

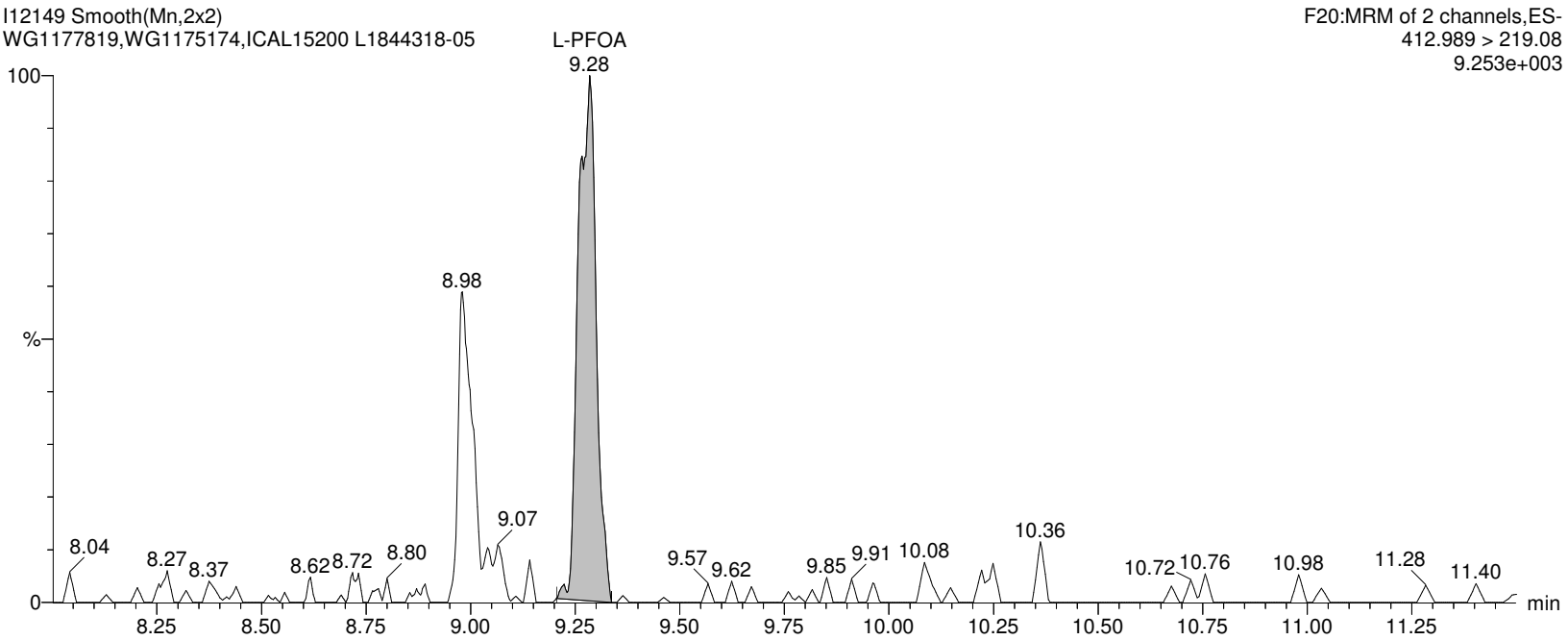

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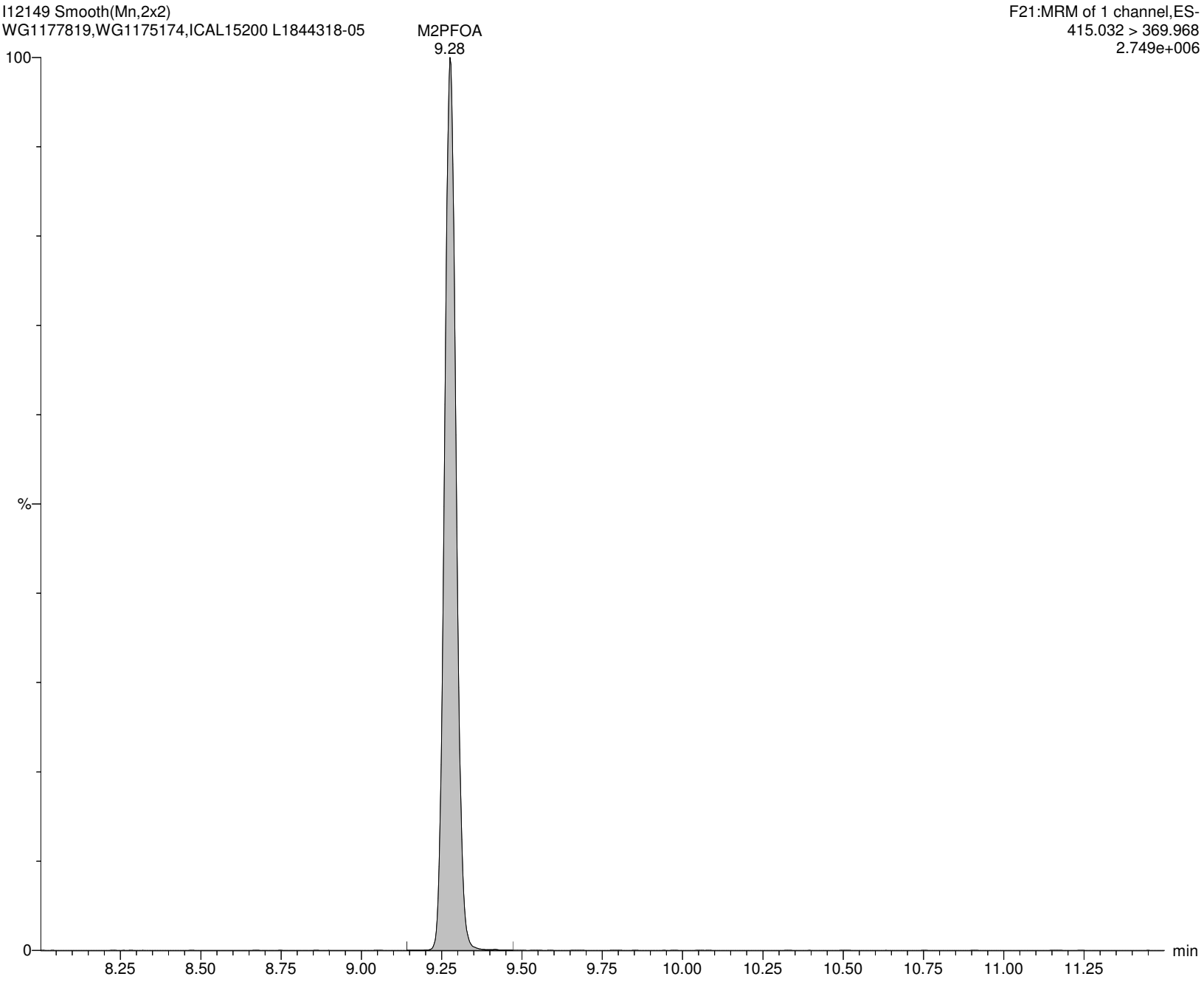

all concentration units in (ng/mL)

Alpha Analytical Inc.
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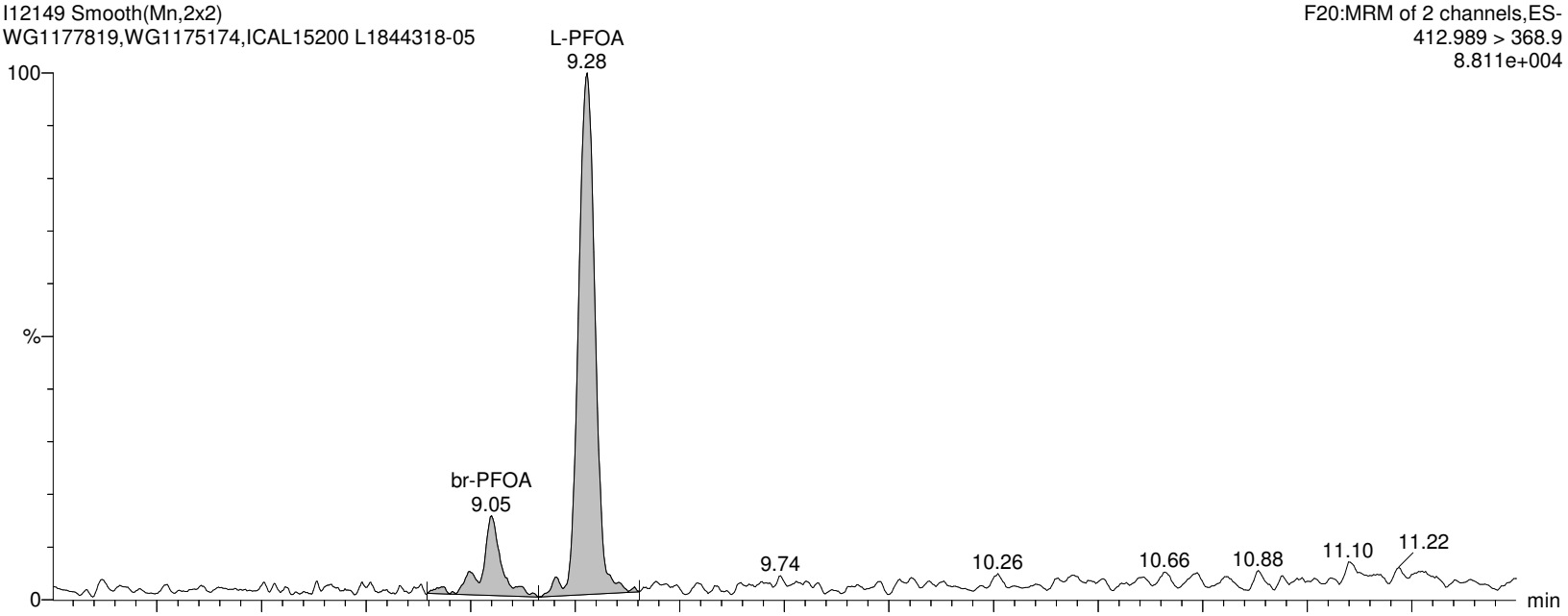

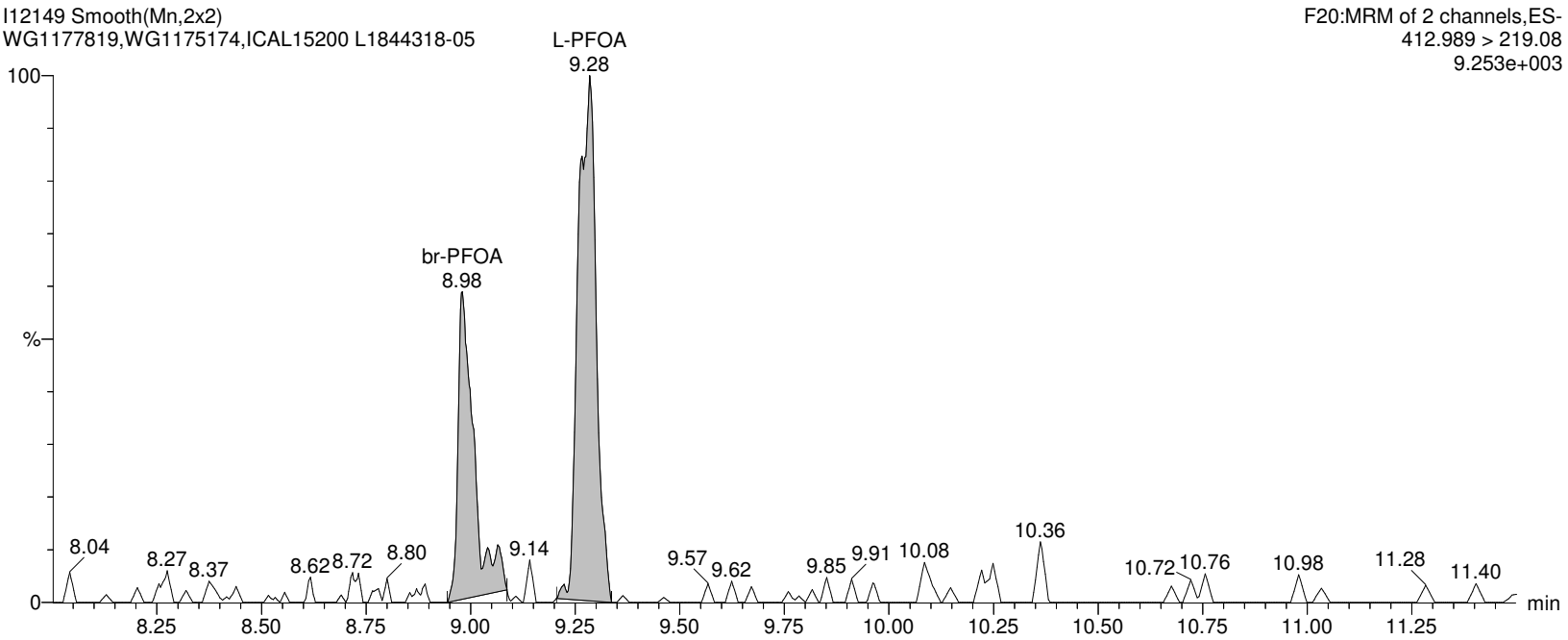

all concentration units in (ng/mL)

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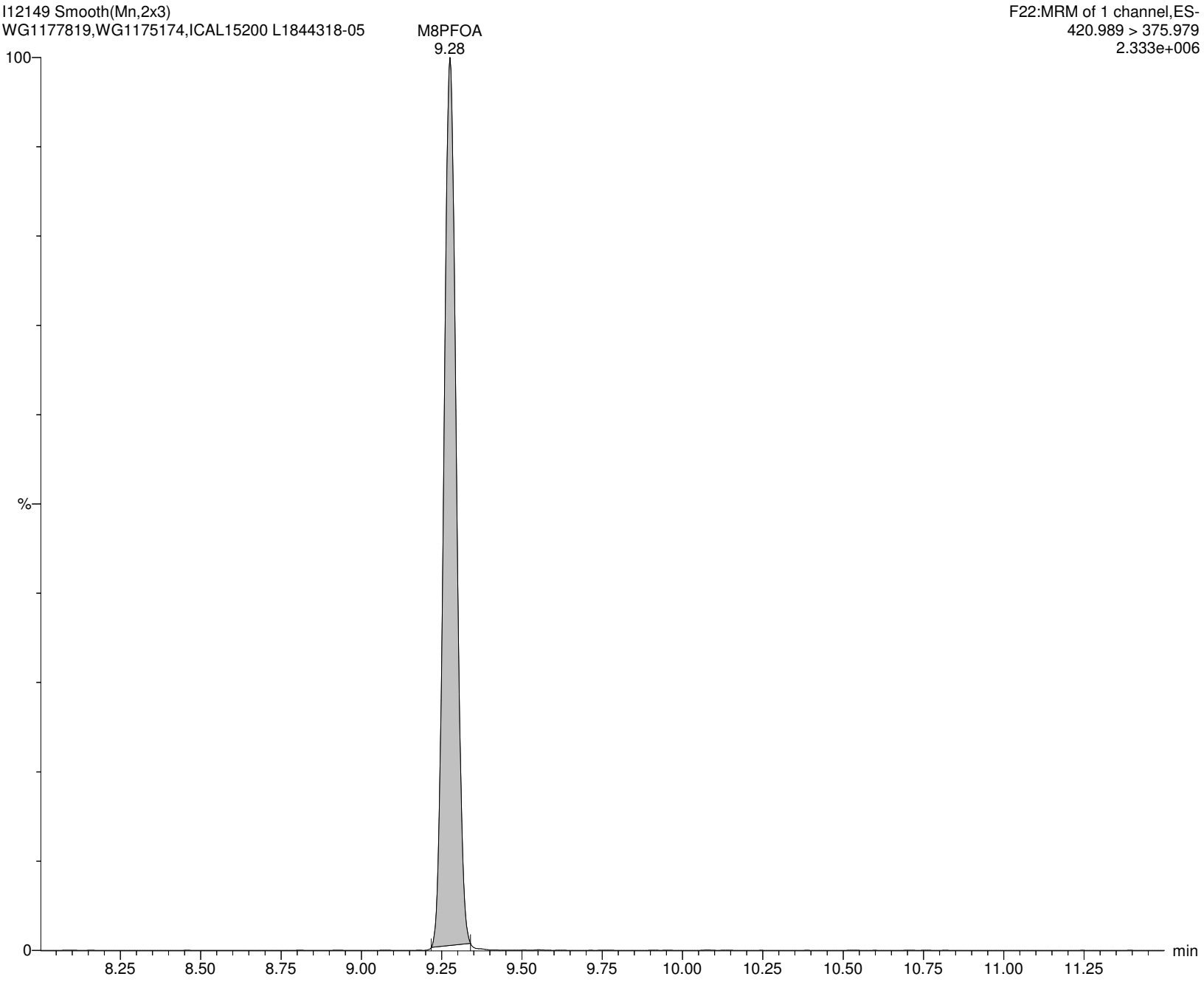

all concentration units in (ng/mL)

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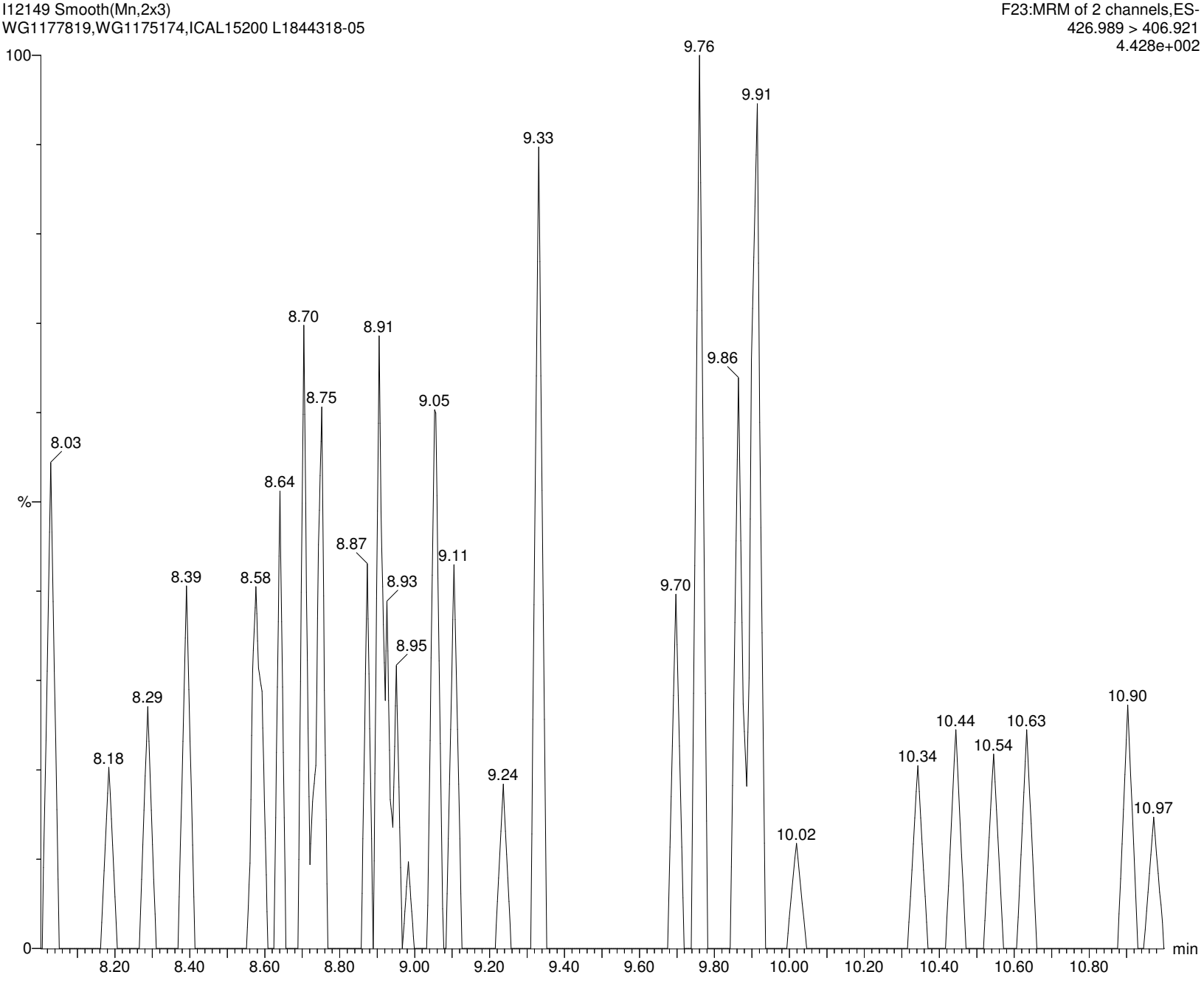

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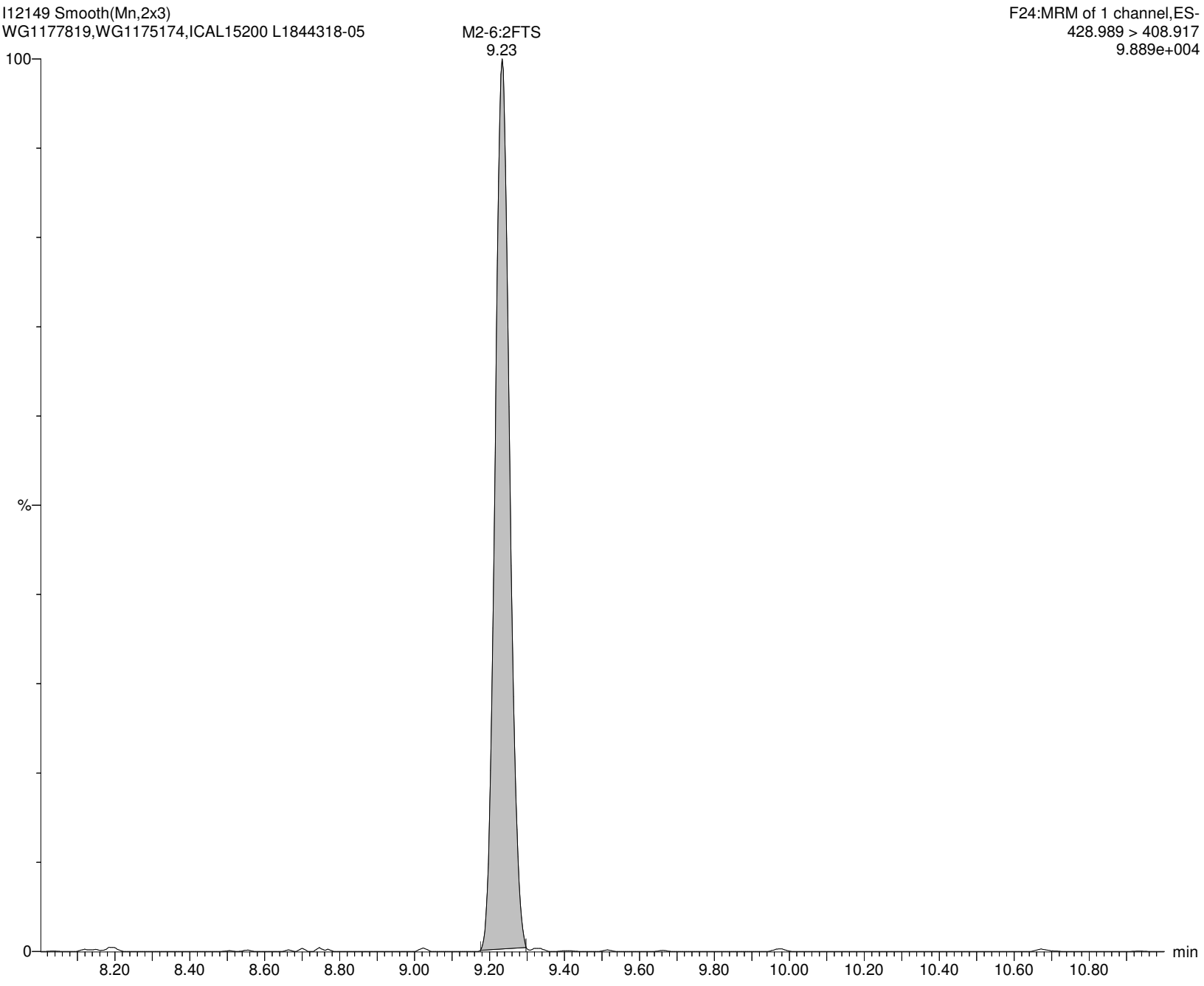

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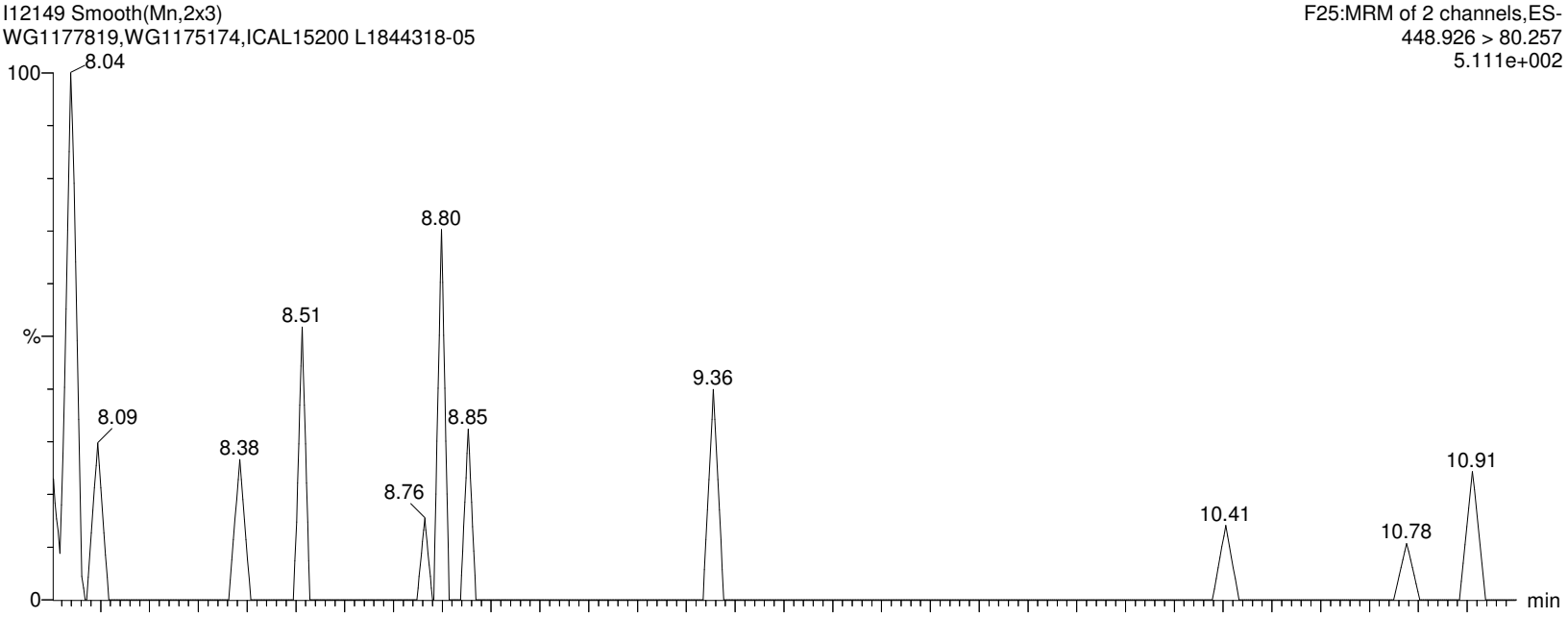

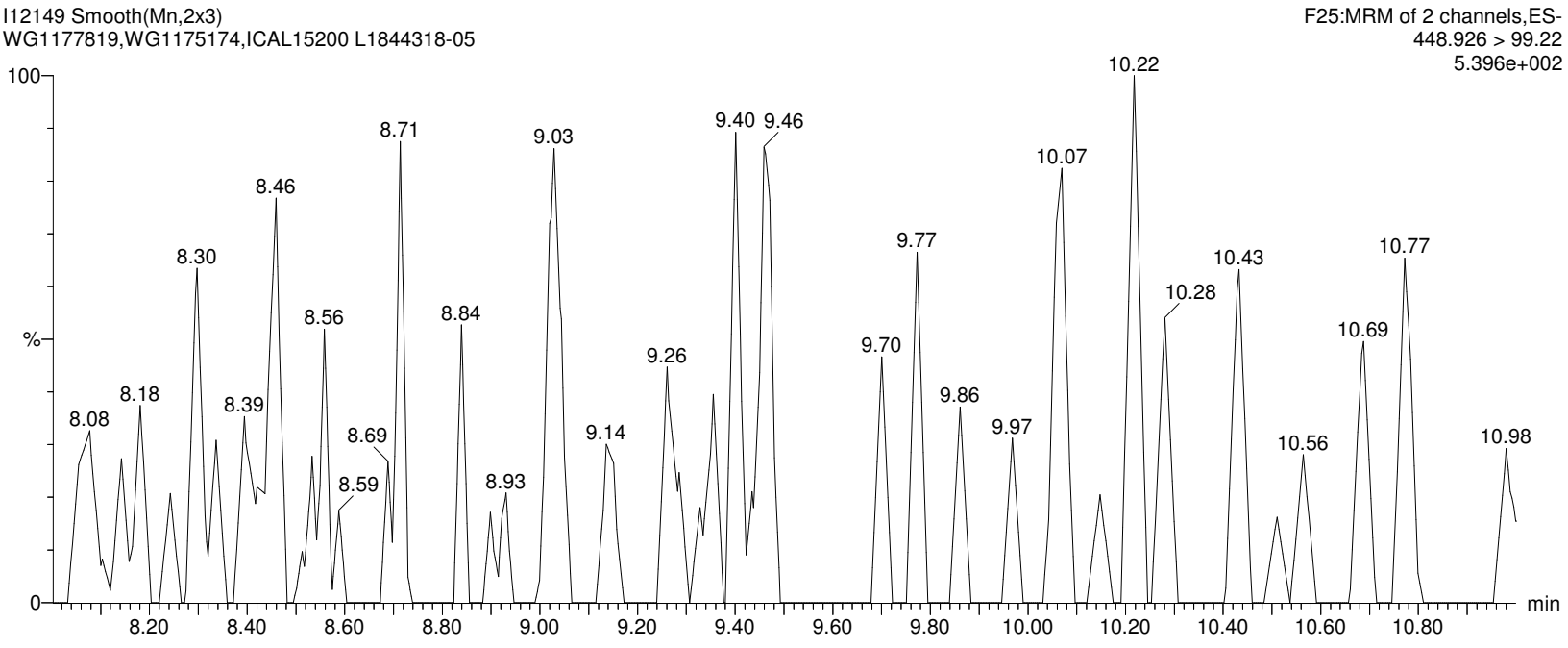

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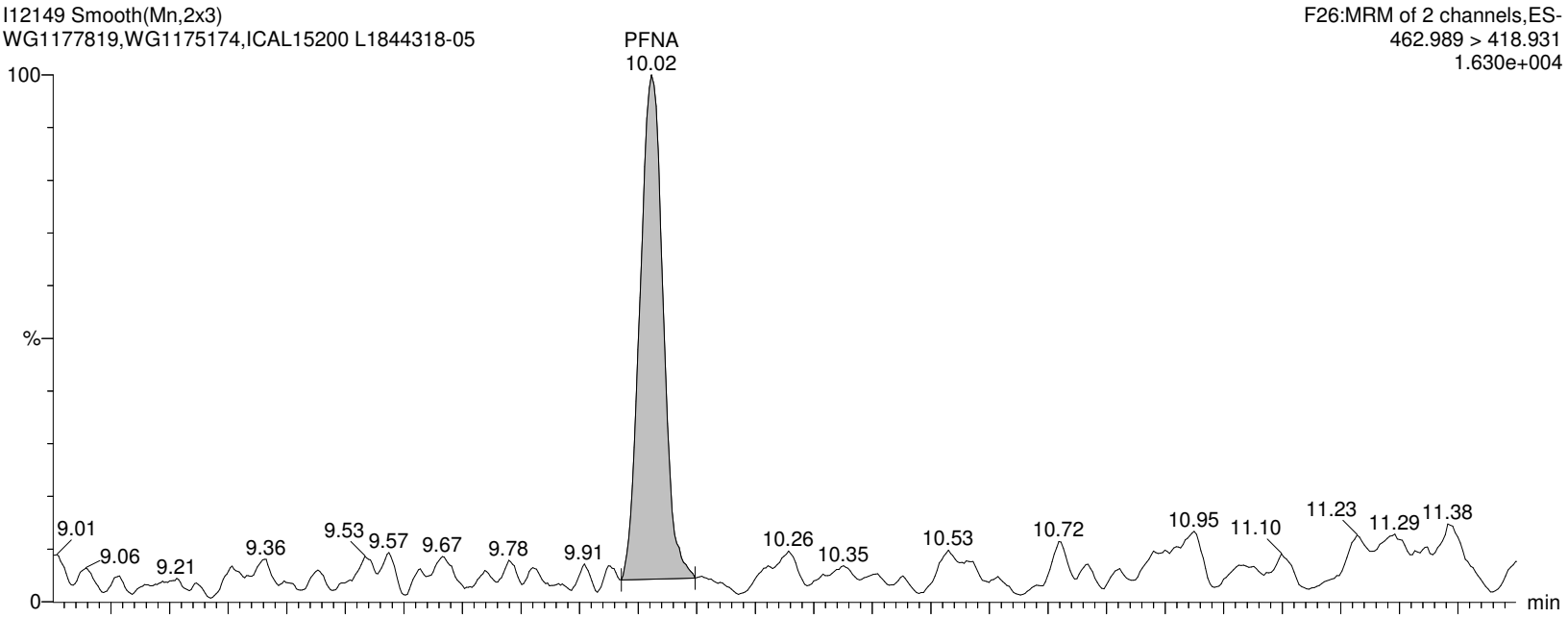

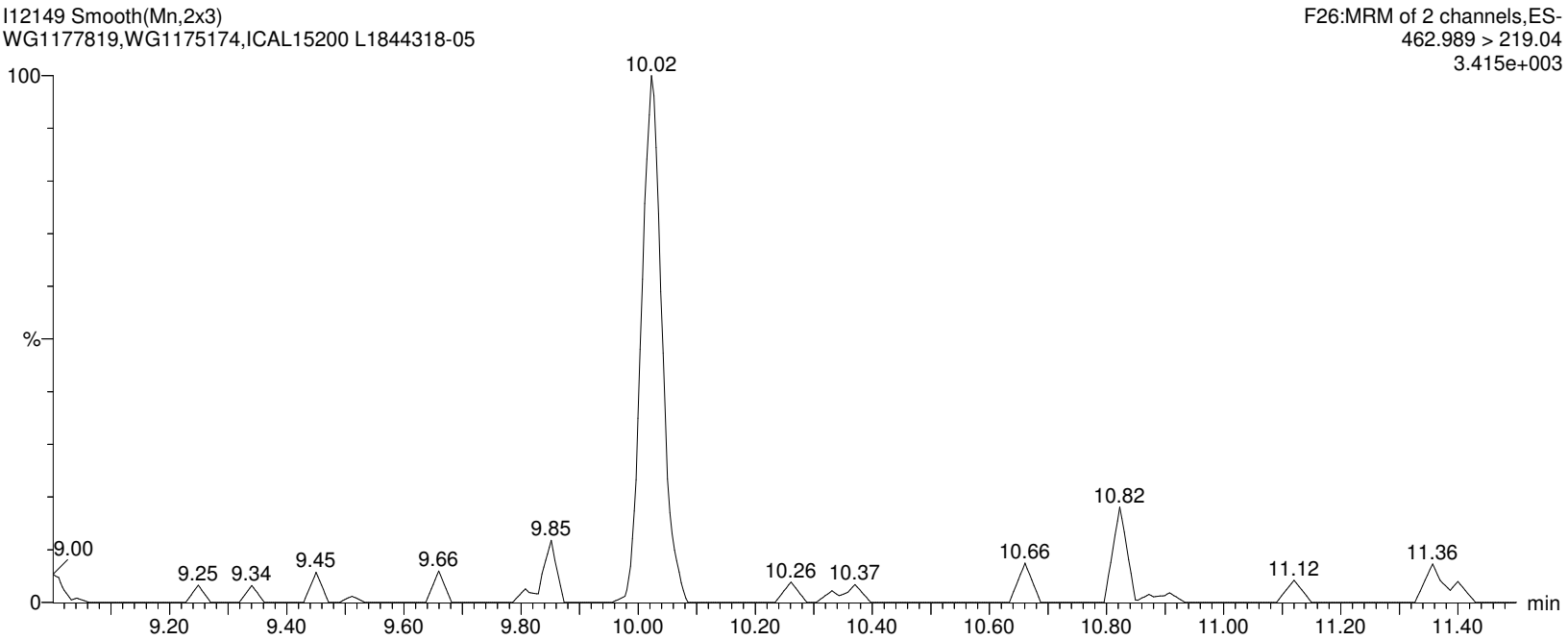

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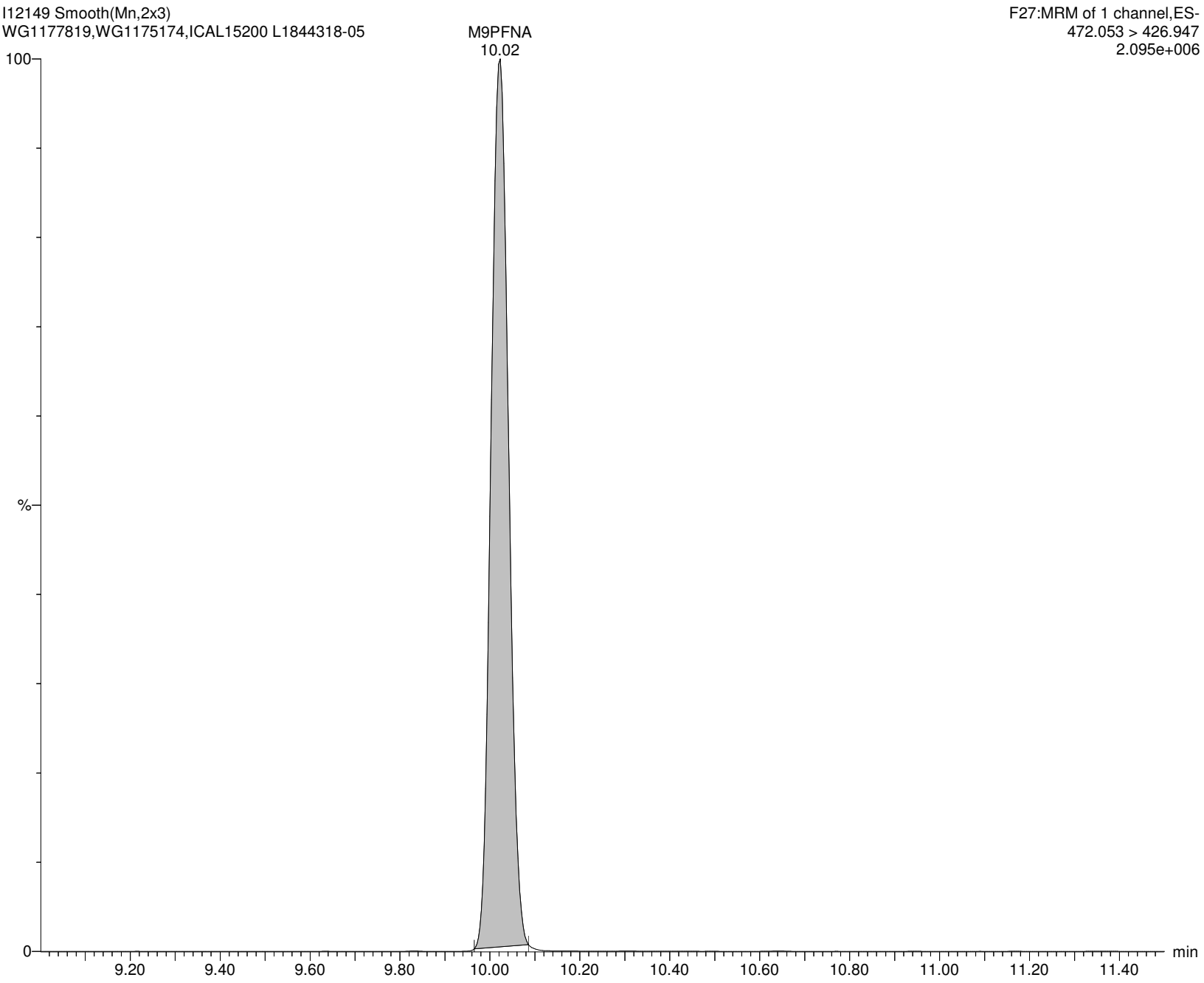

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Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:47 Eastern Standard Time

Name: I12149
ID: L1844318-05
Date: 10-Nov-2018
Time: 06:02:07
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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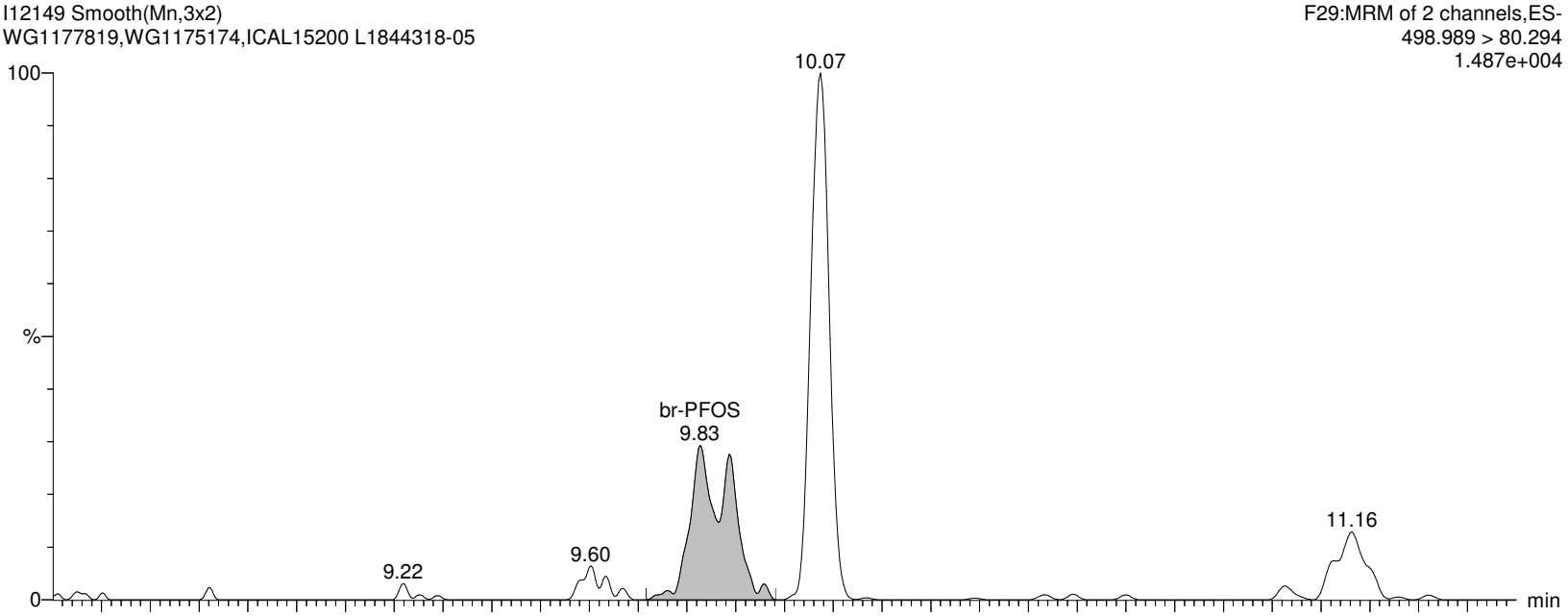

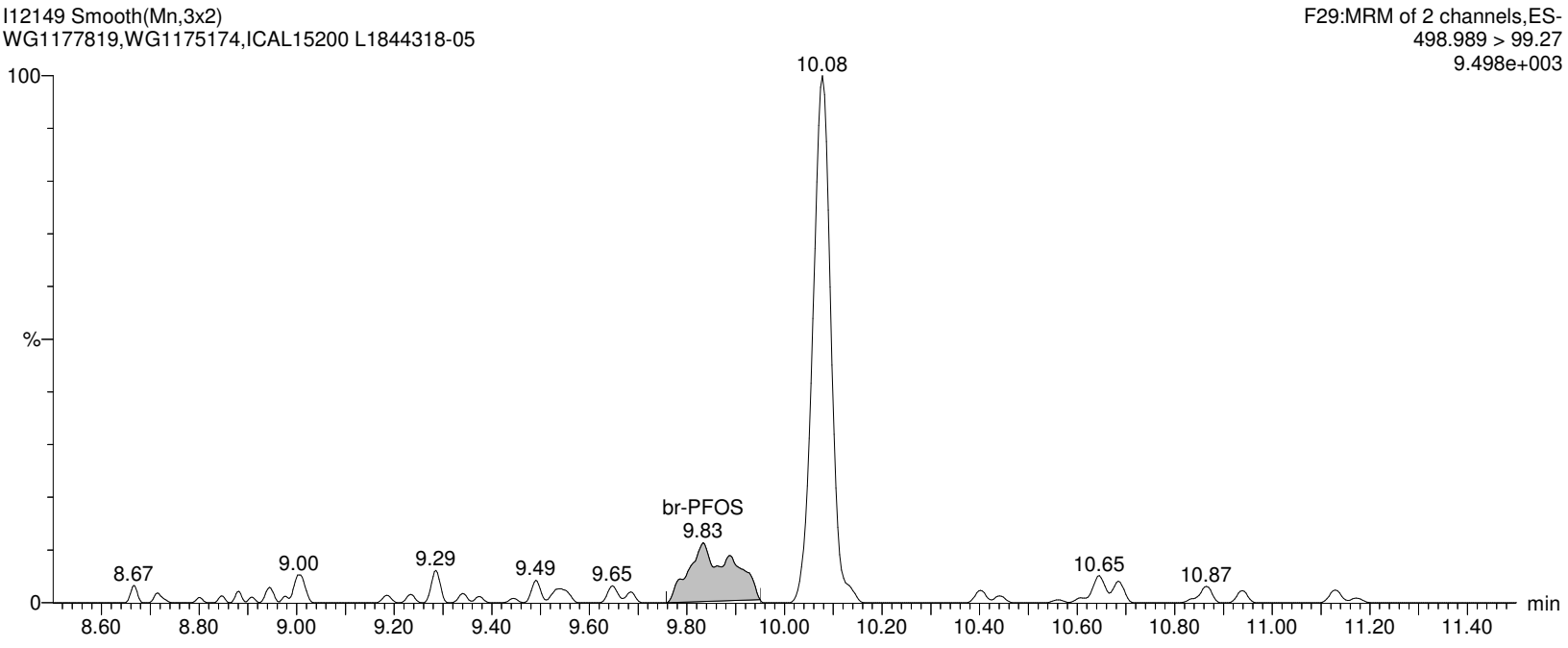

all concentration units in (ng/mL)

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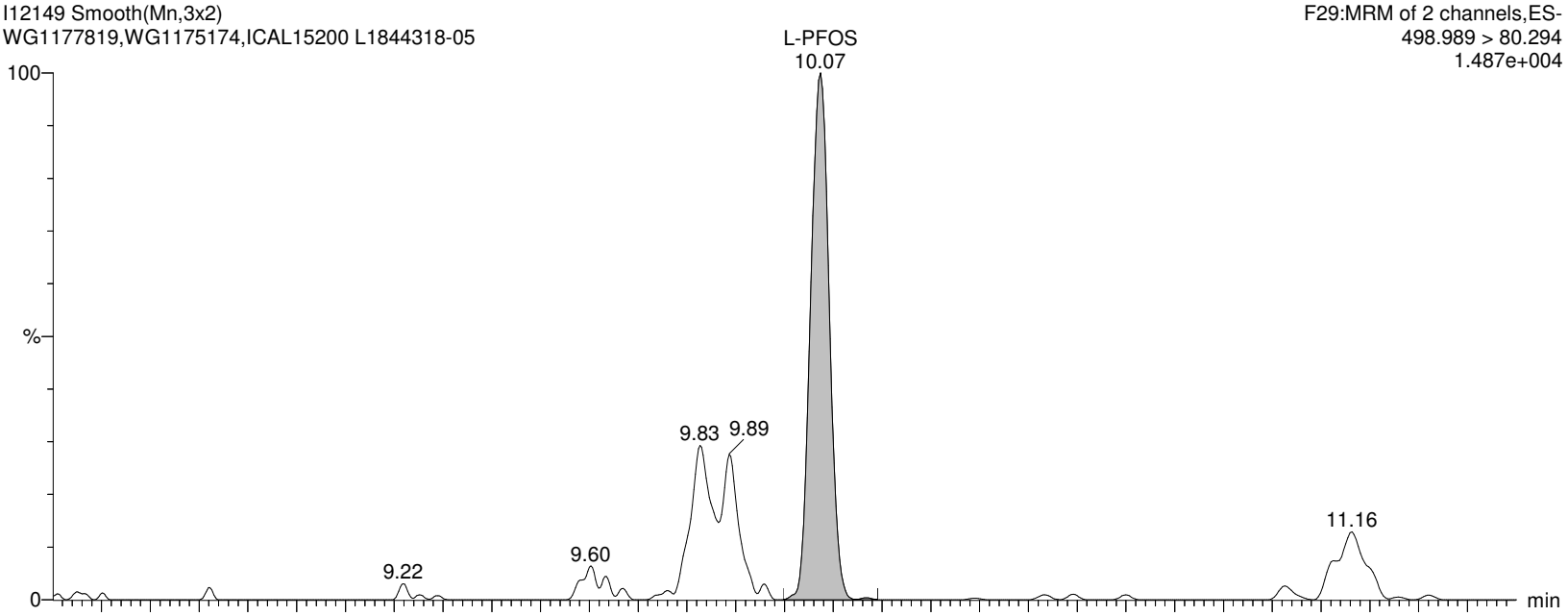

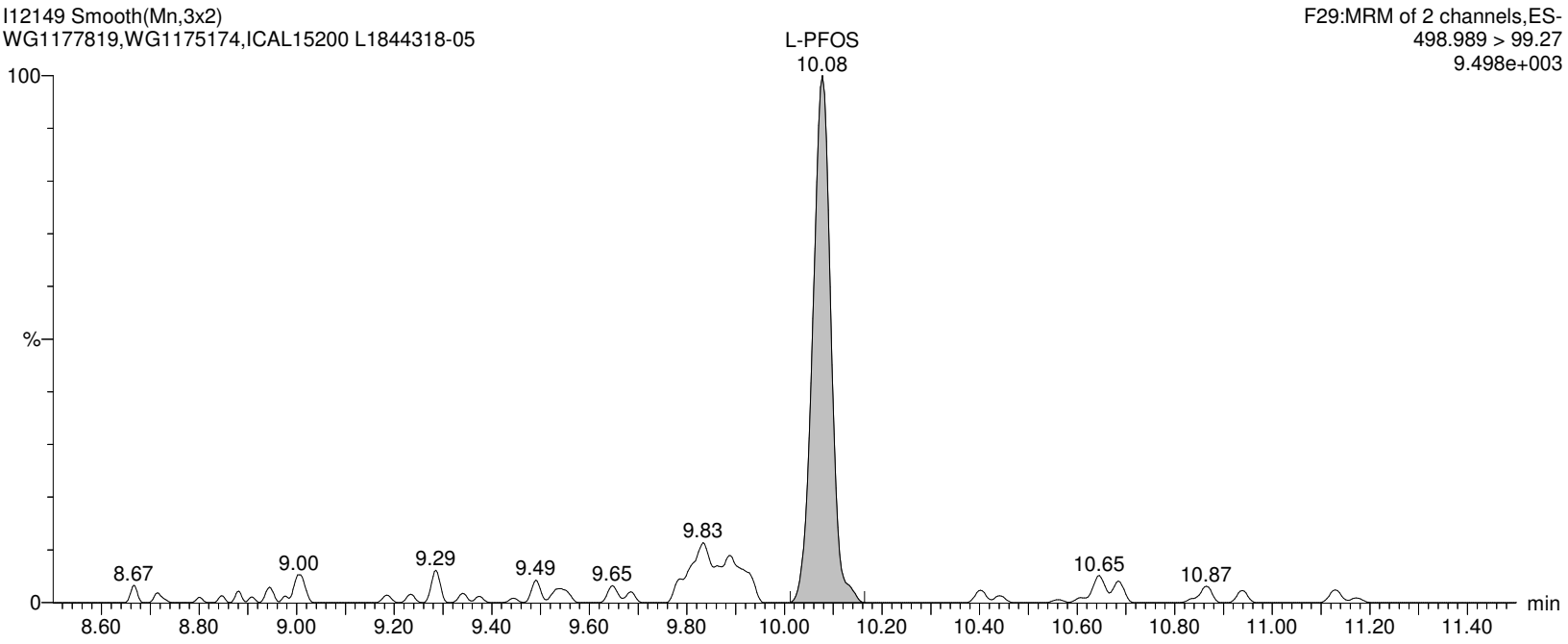

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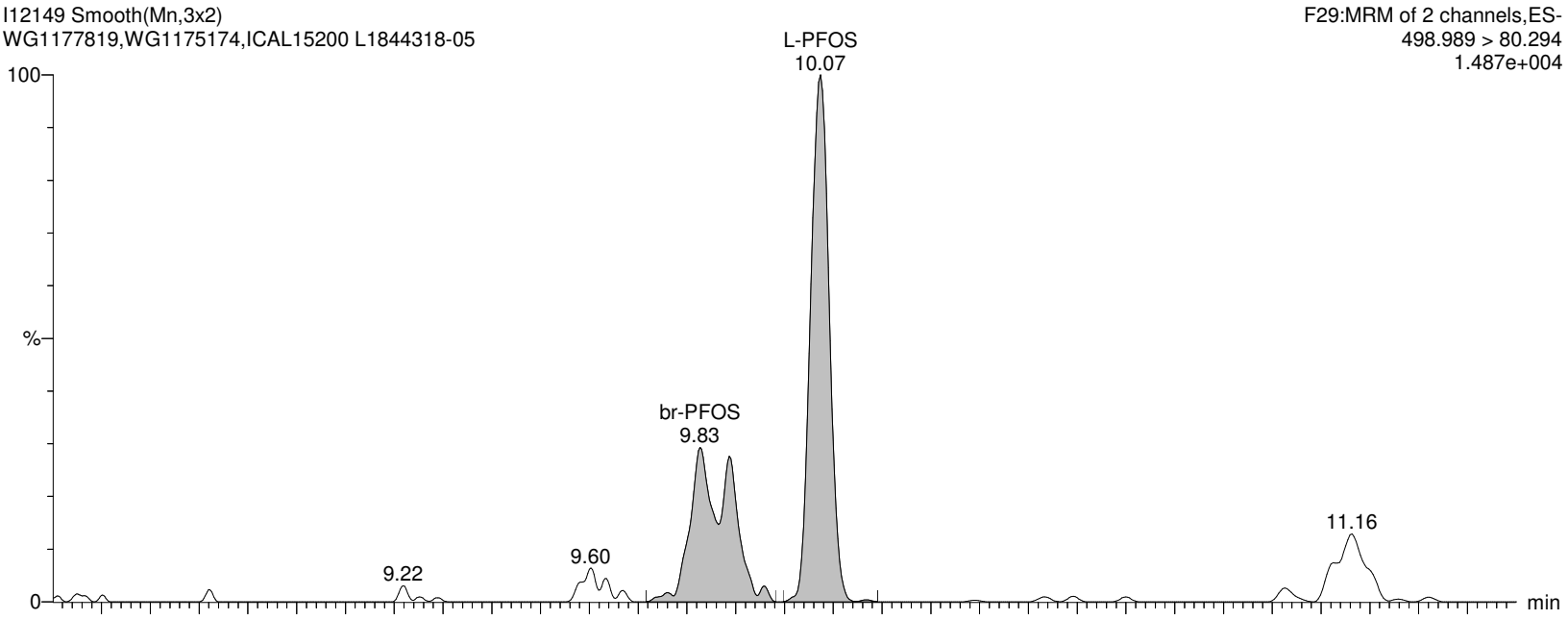

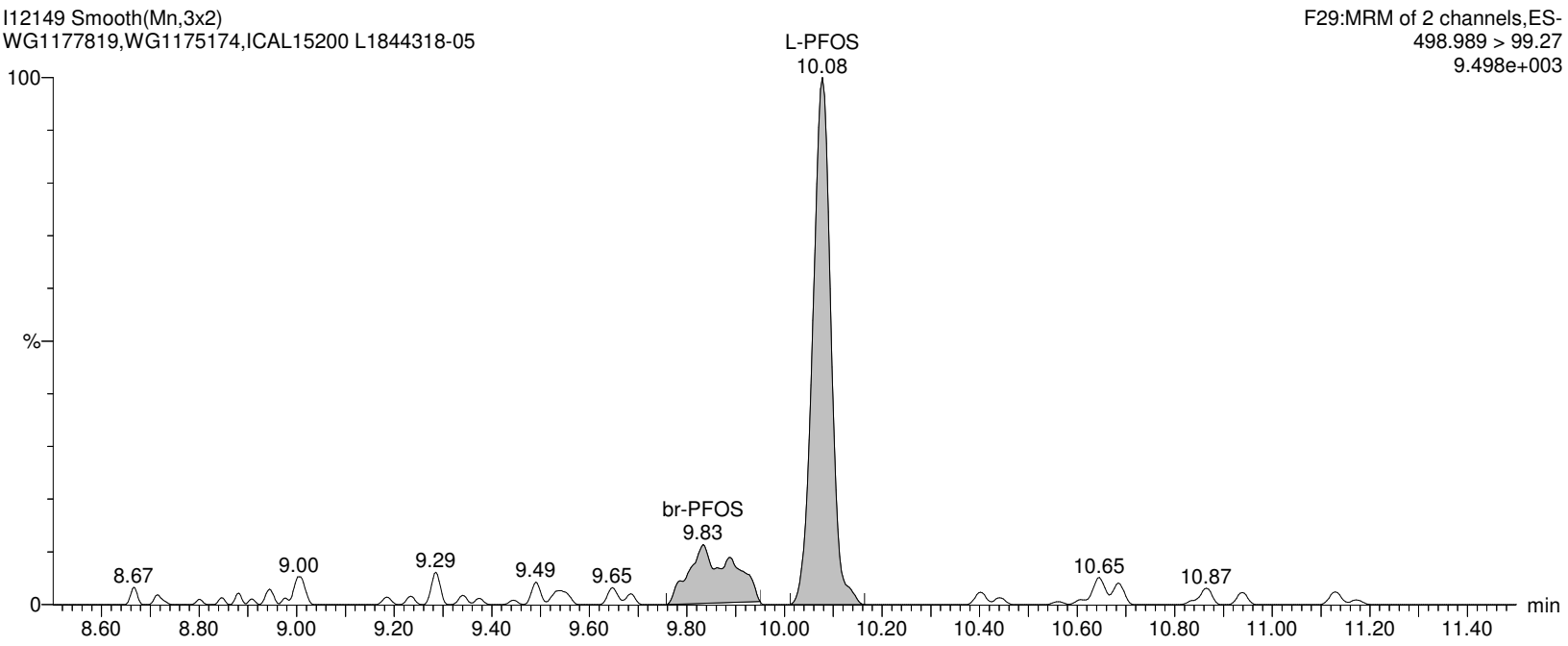

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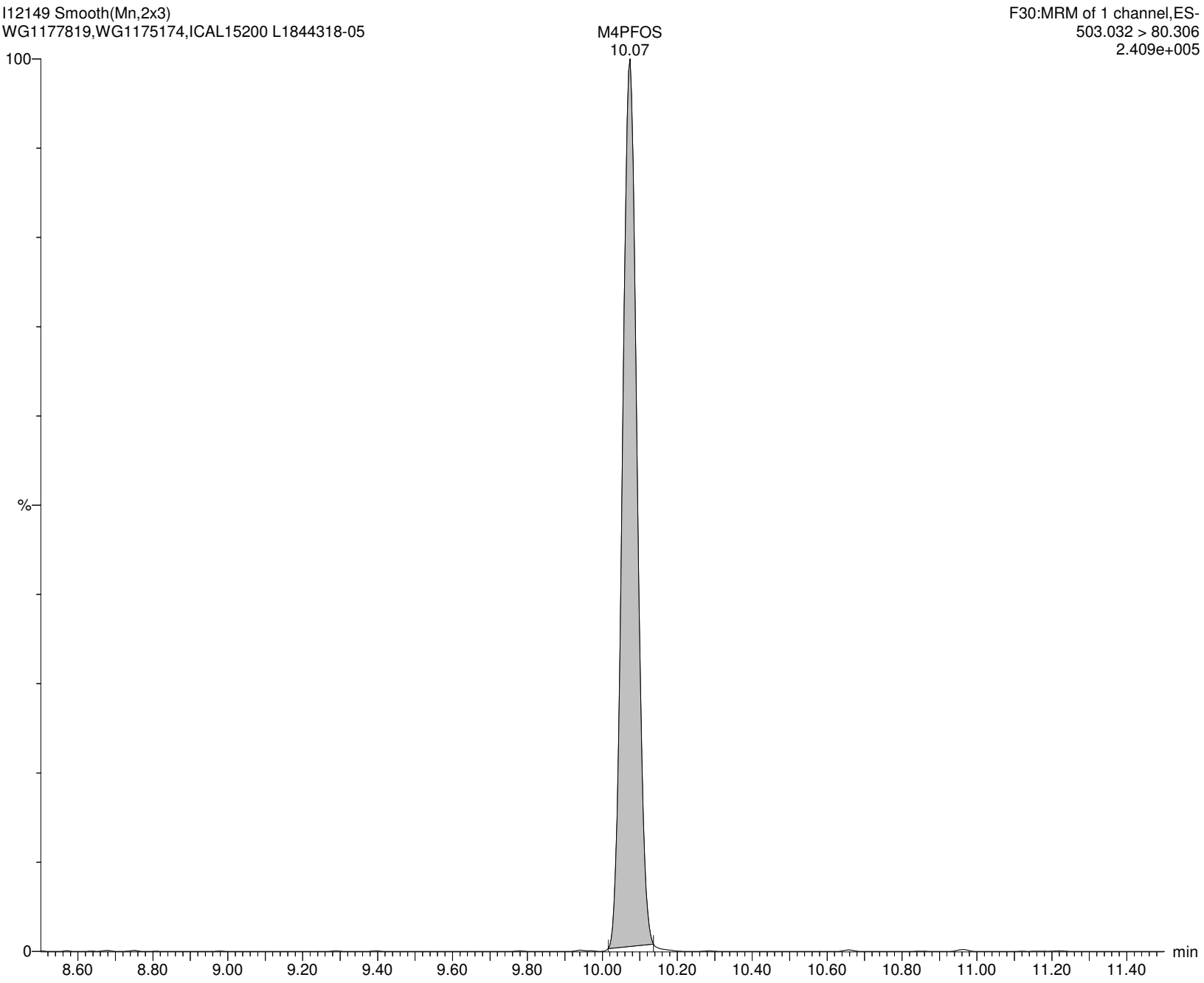

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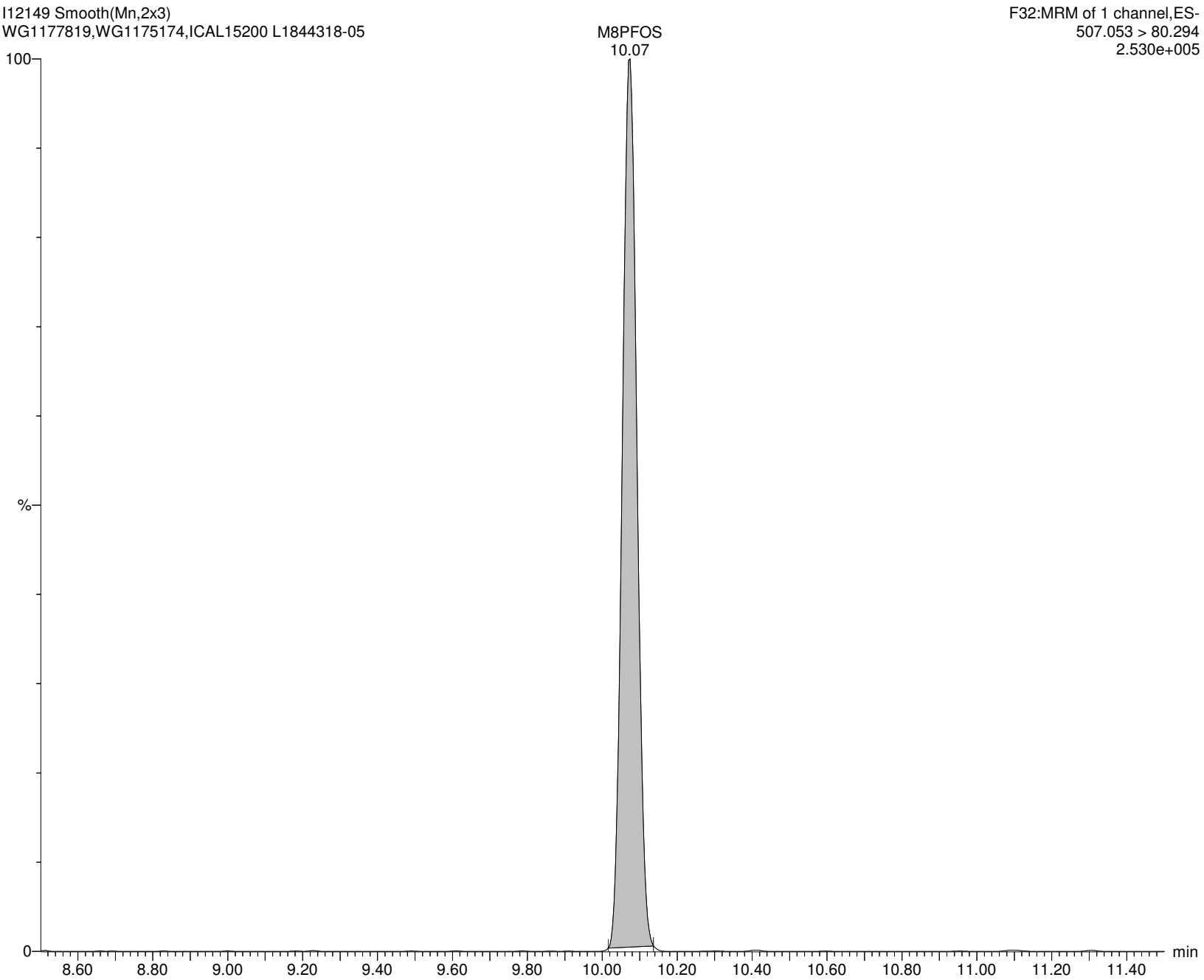

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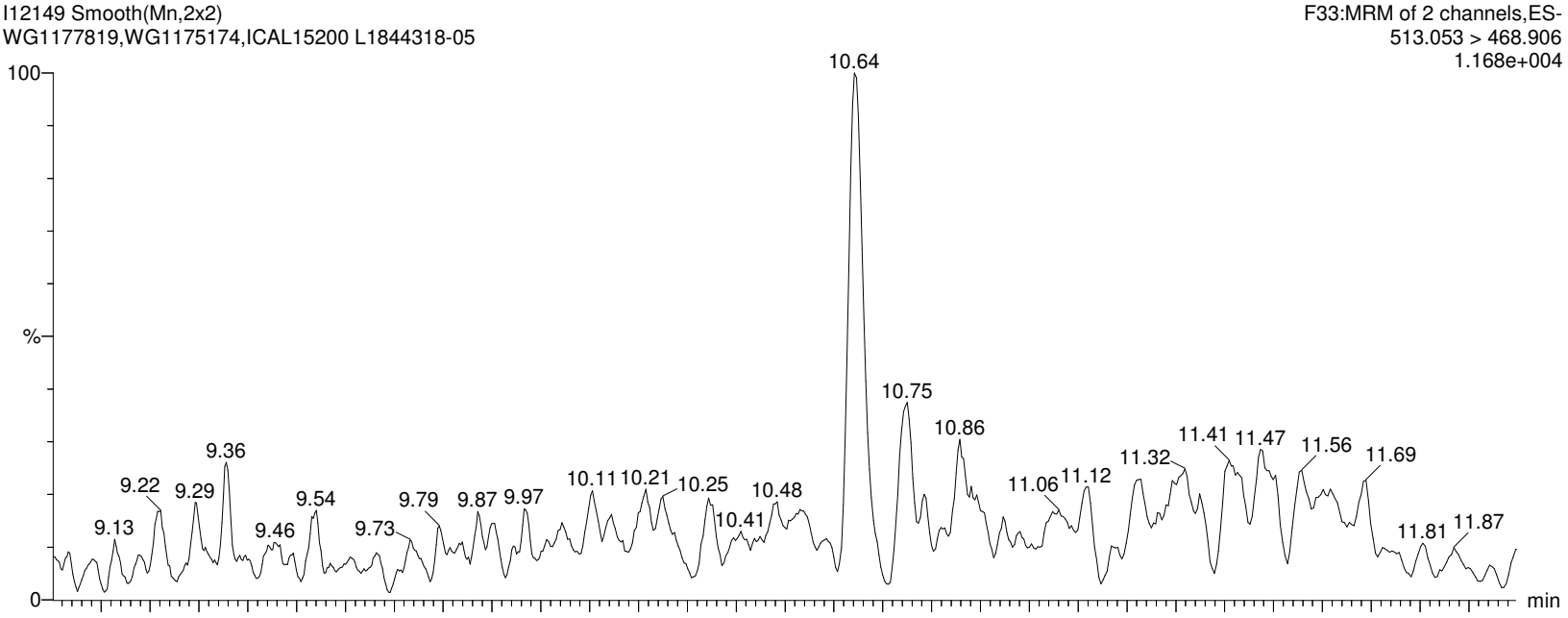

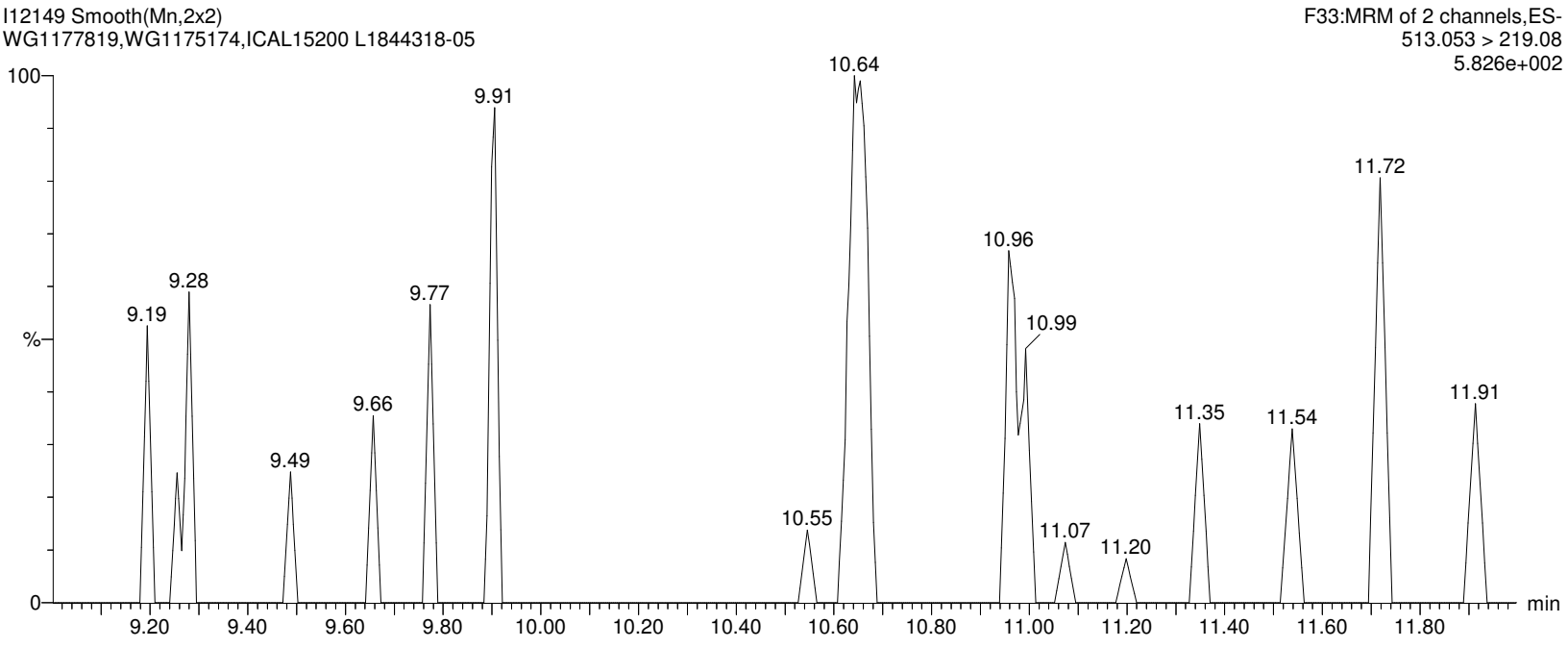

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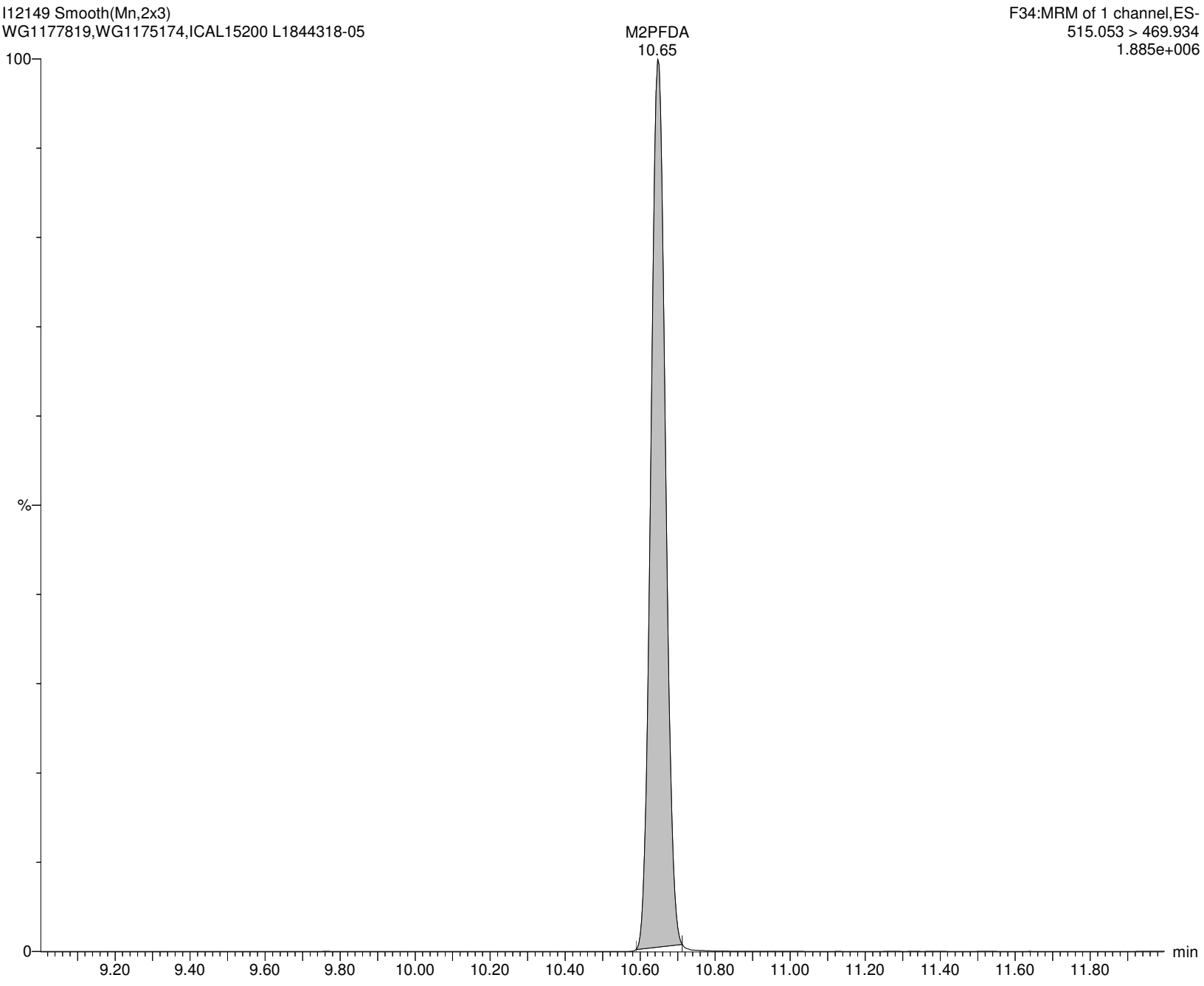

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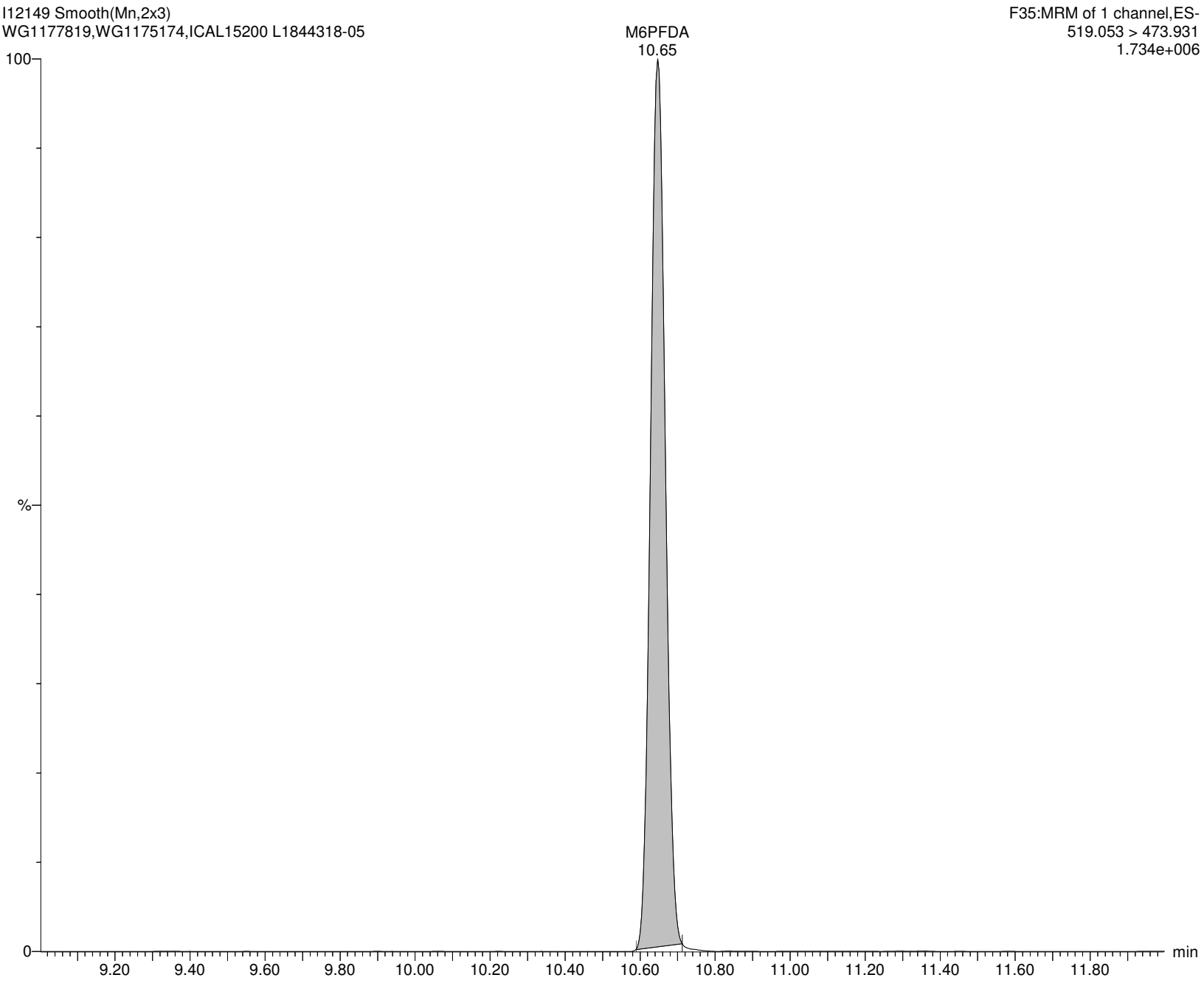

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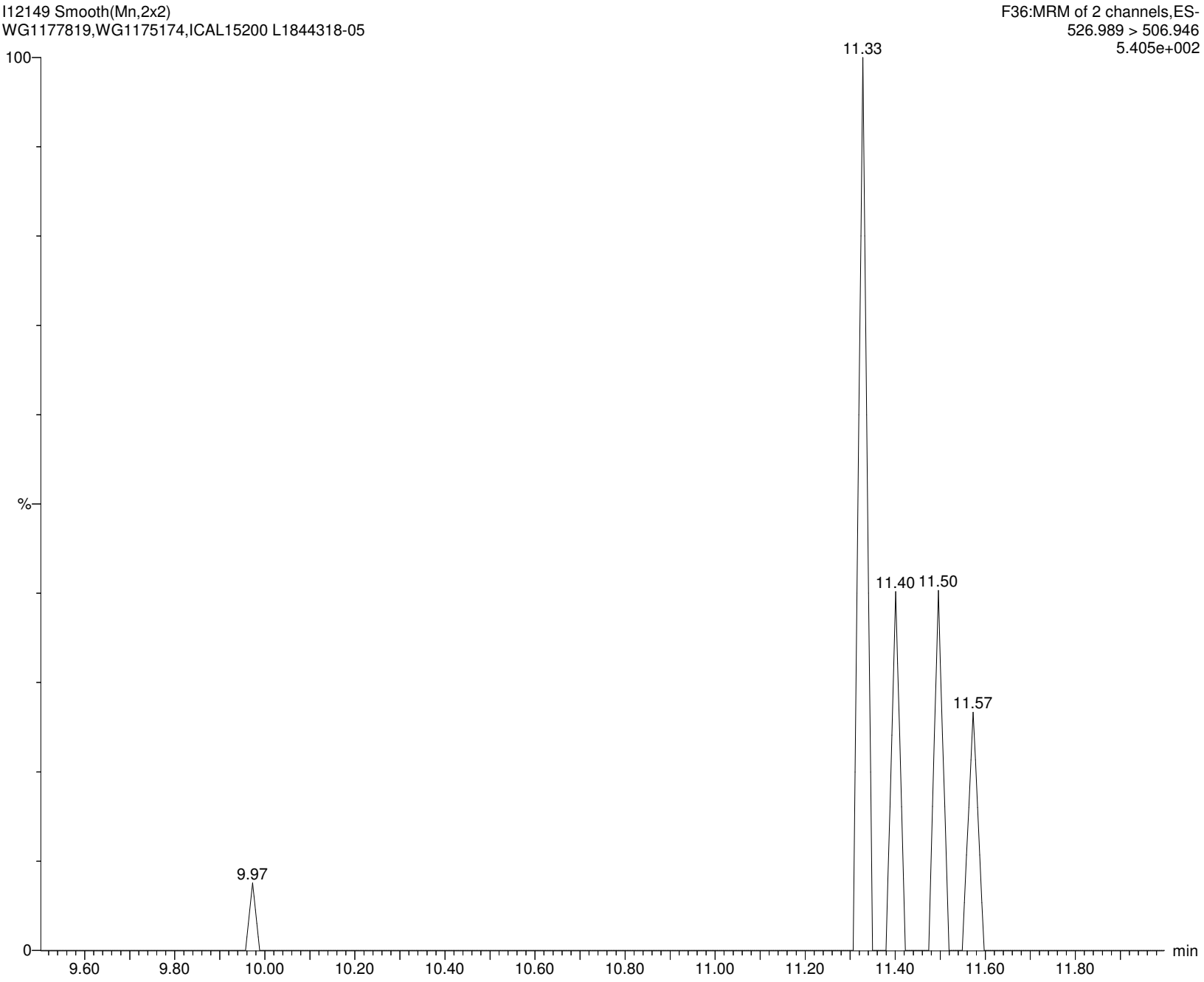

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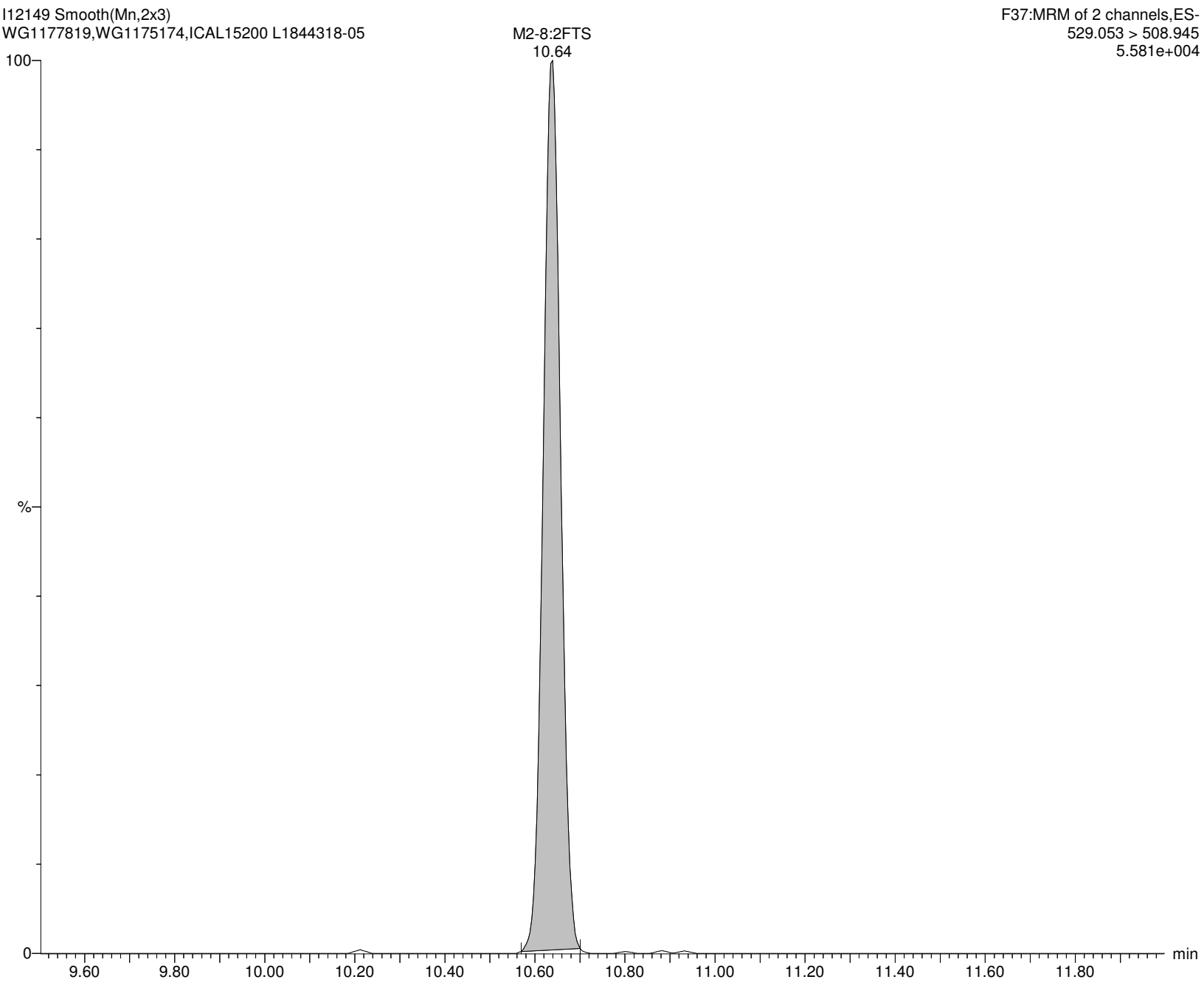

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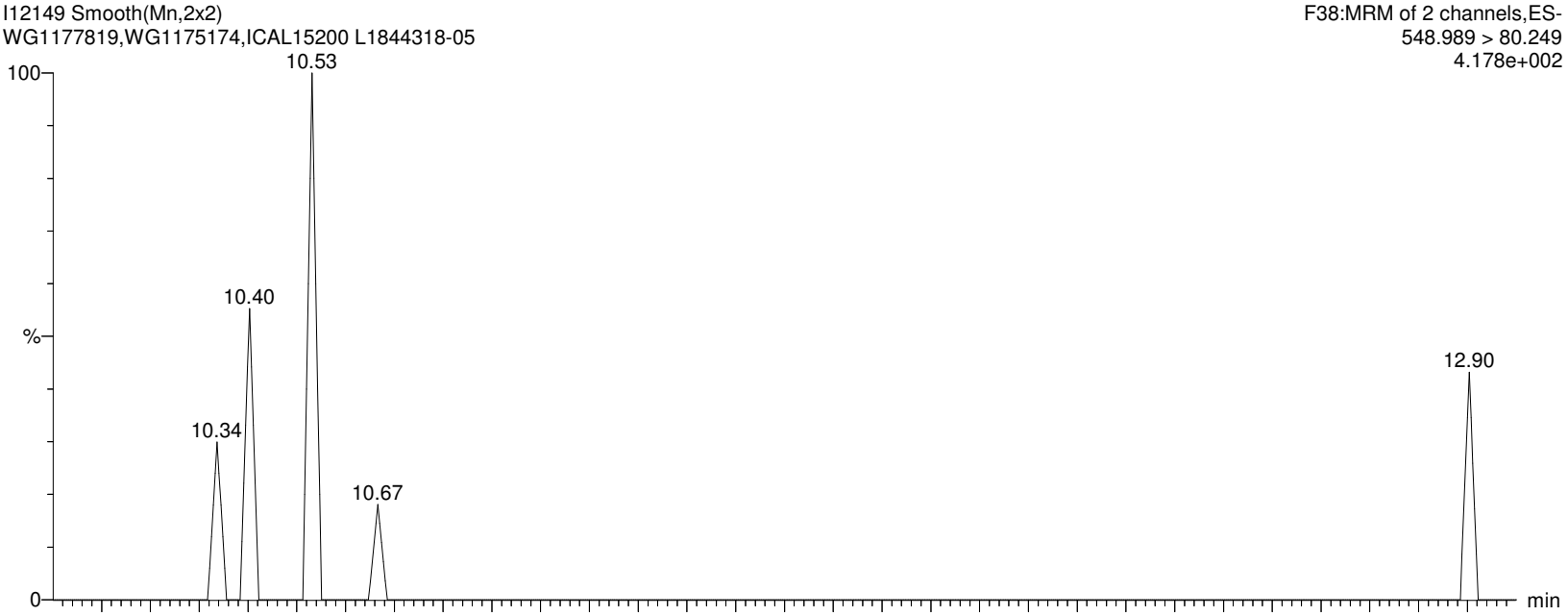

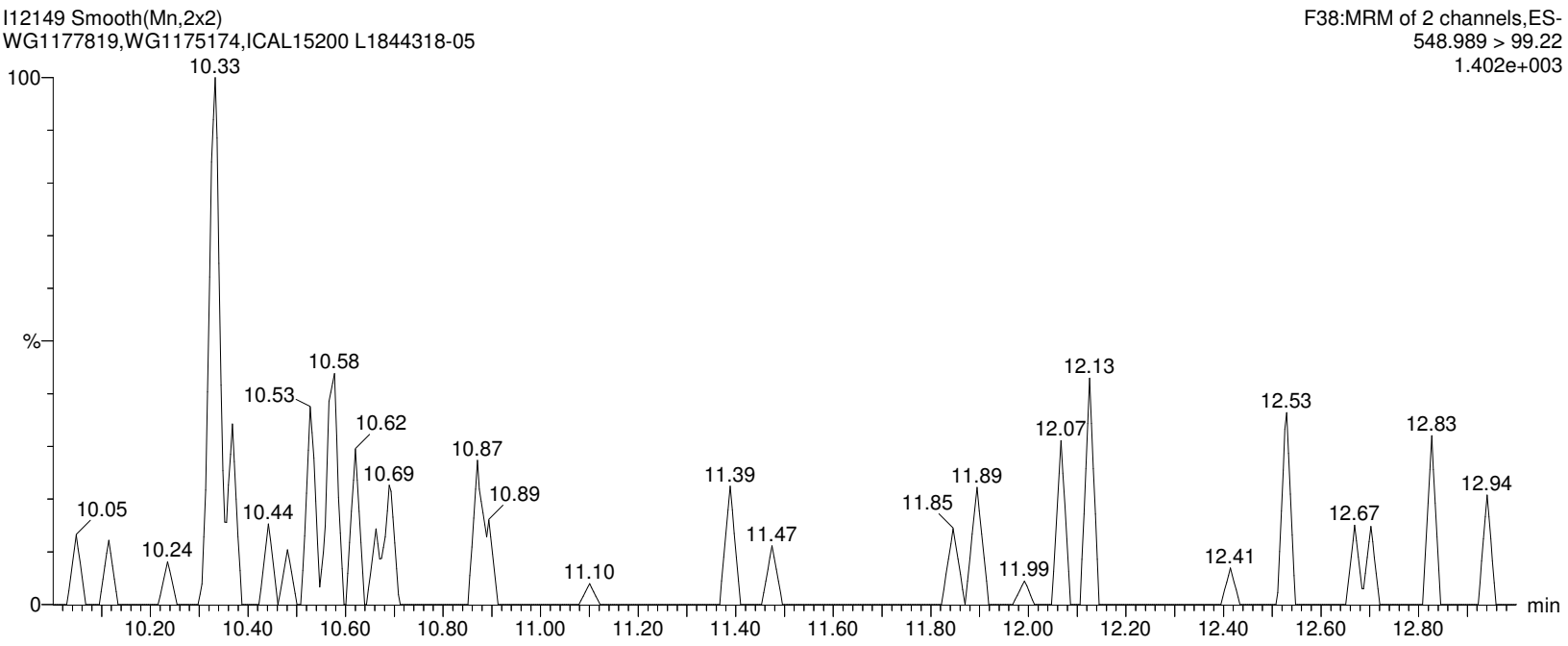

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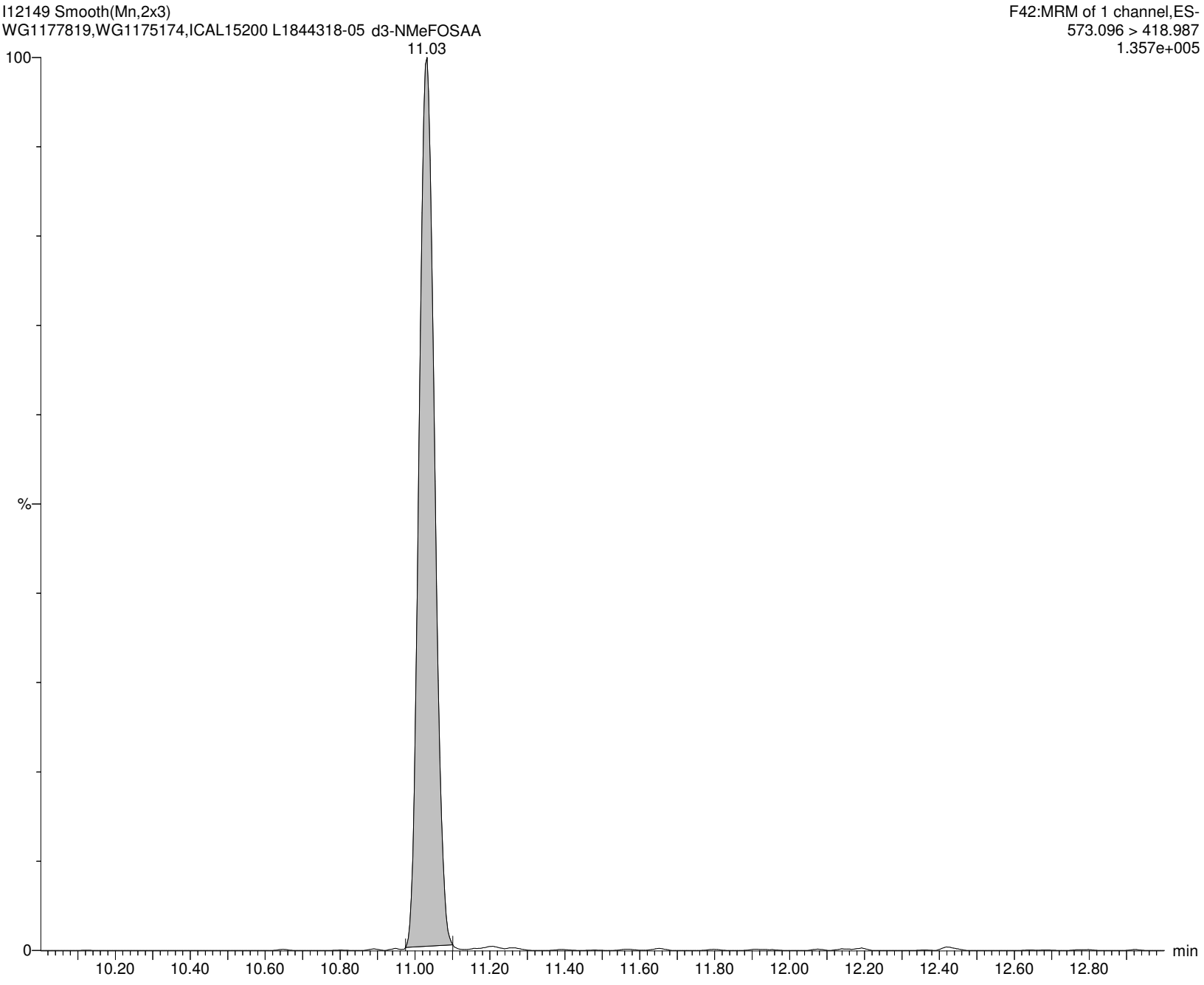

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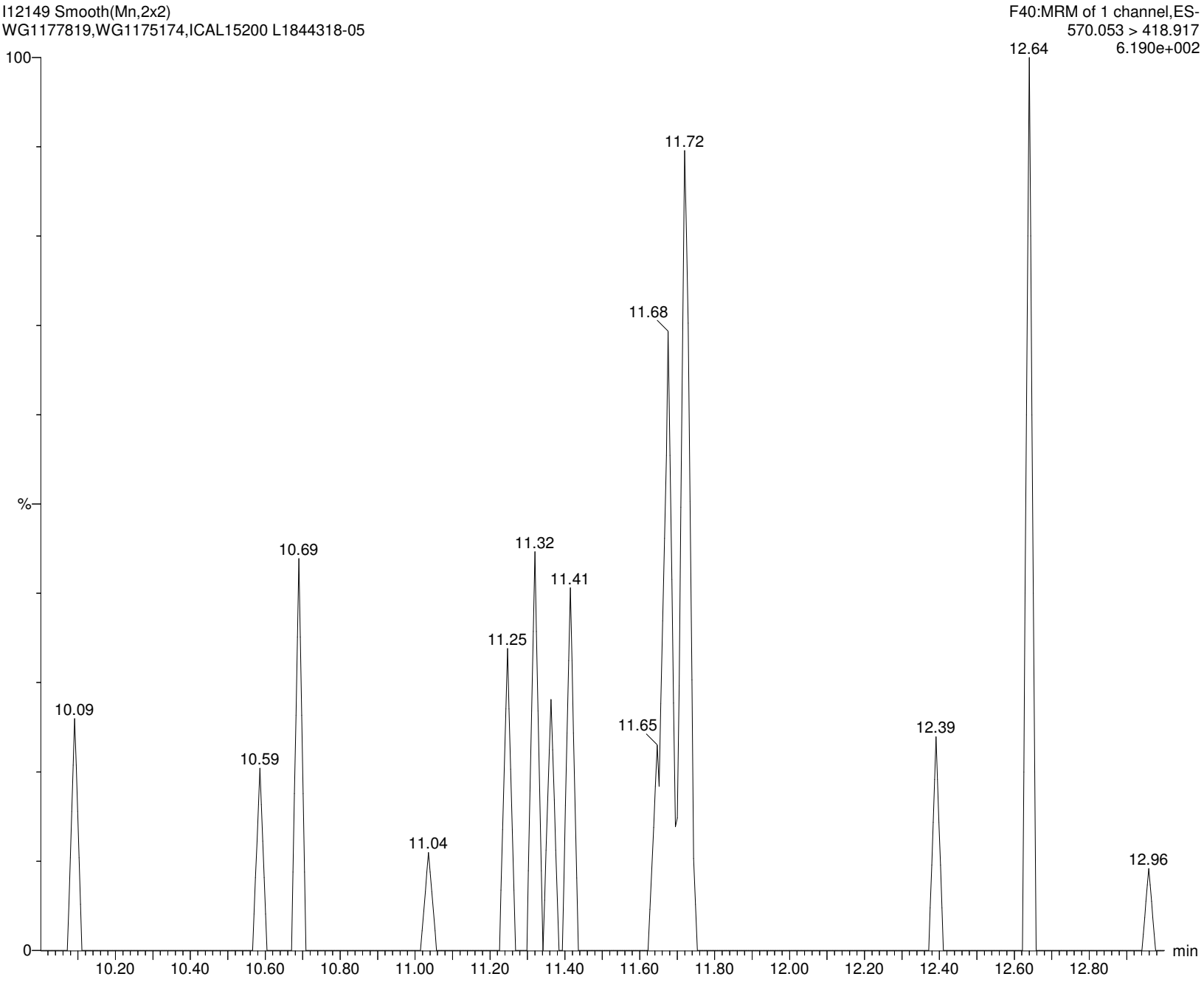

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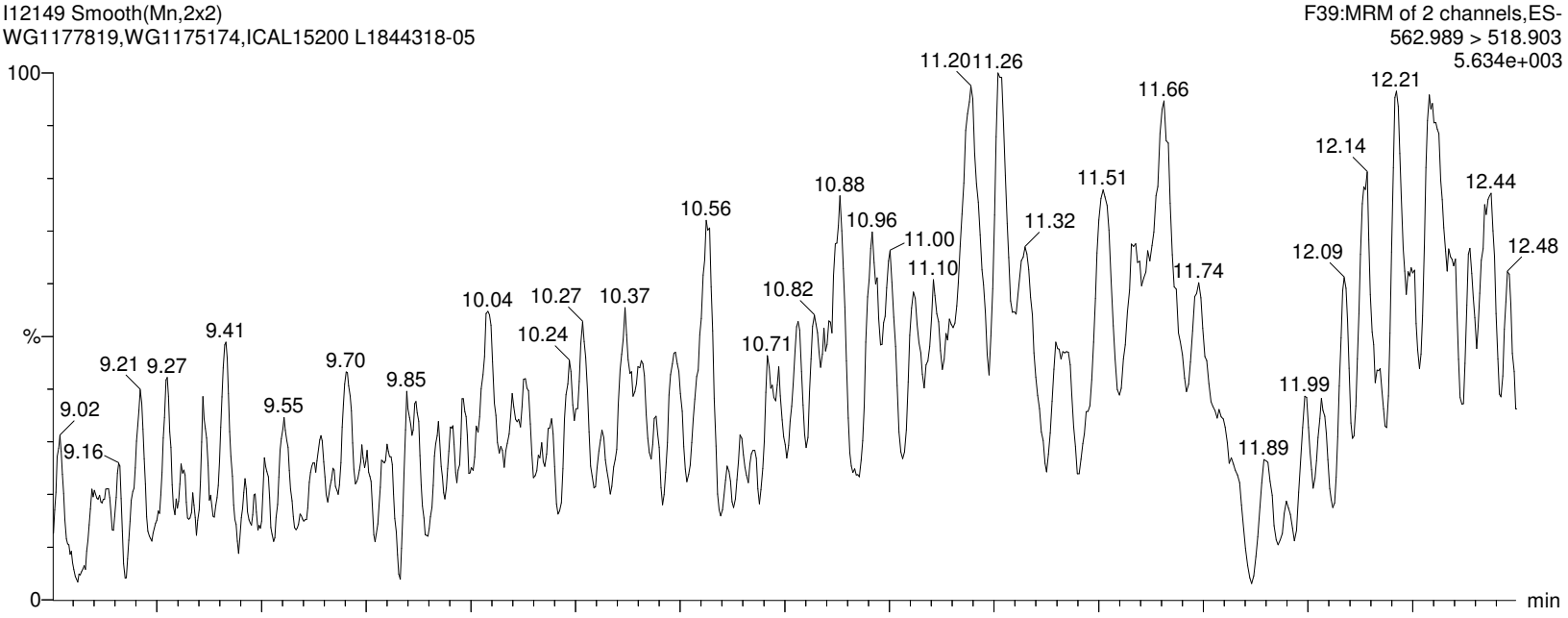

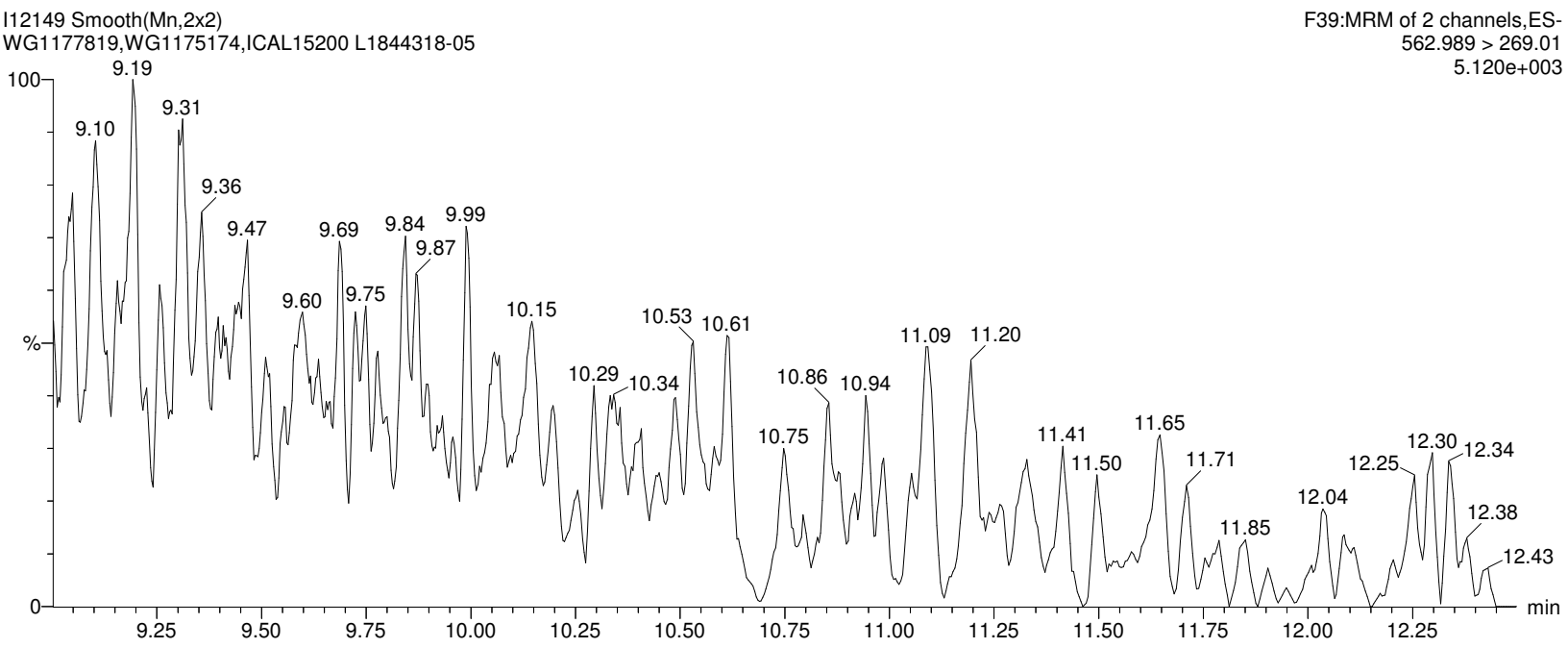

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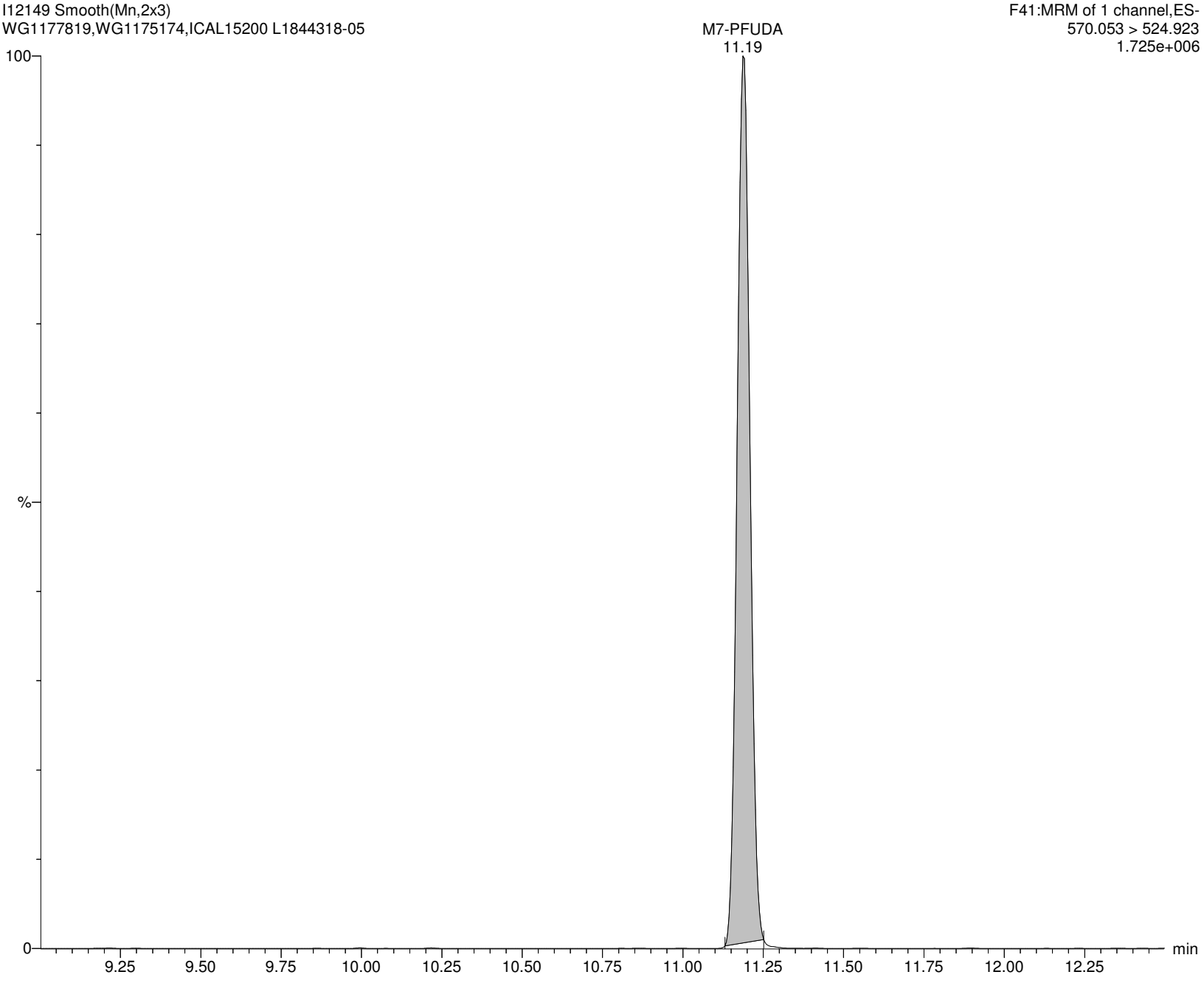

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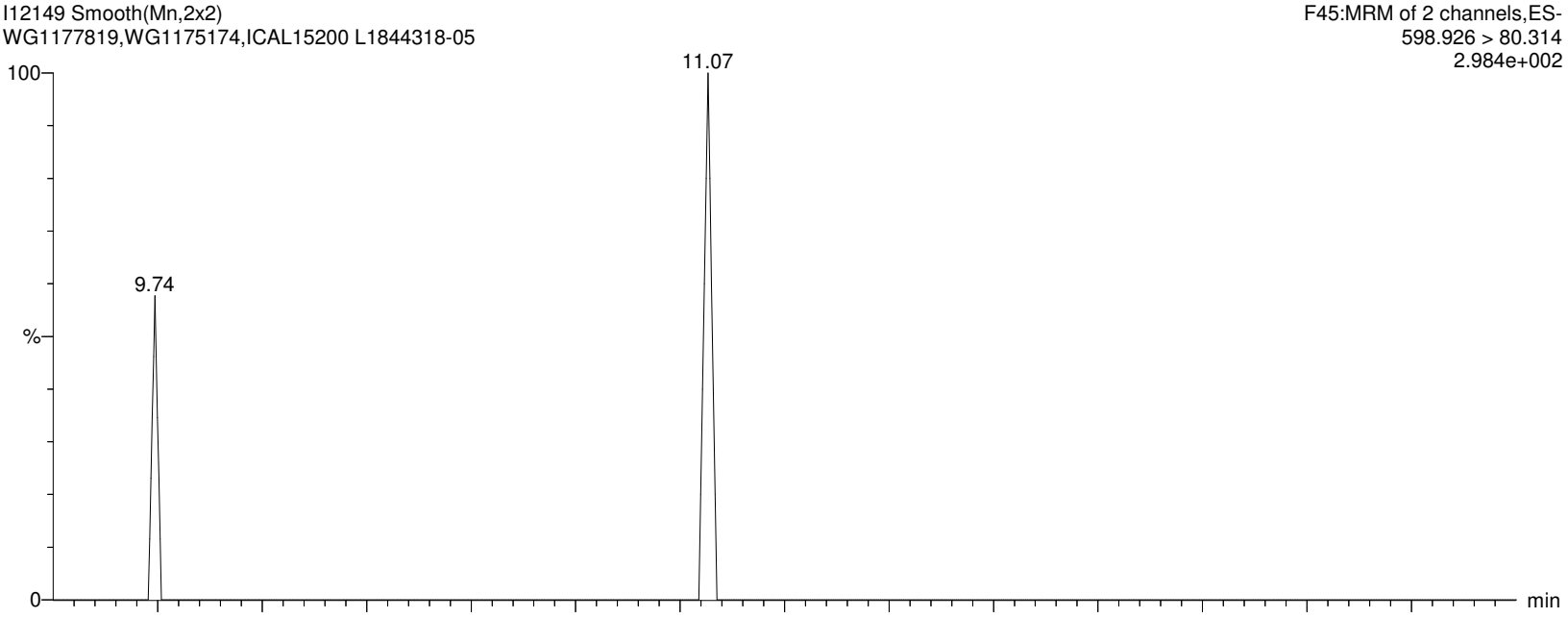

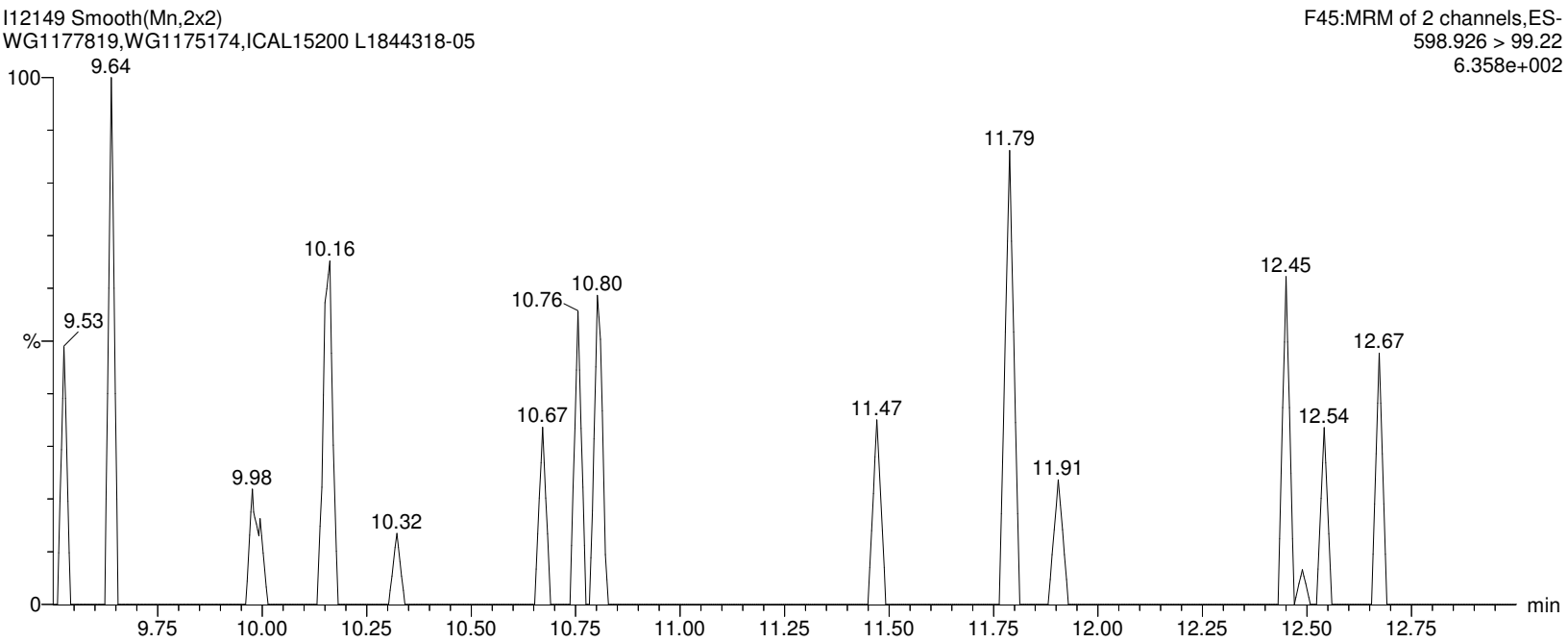

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Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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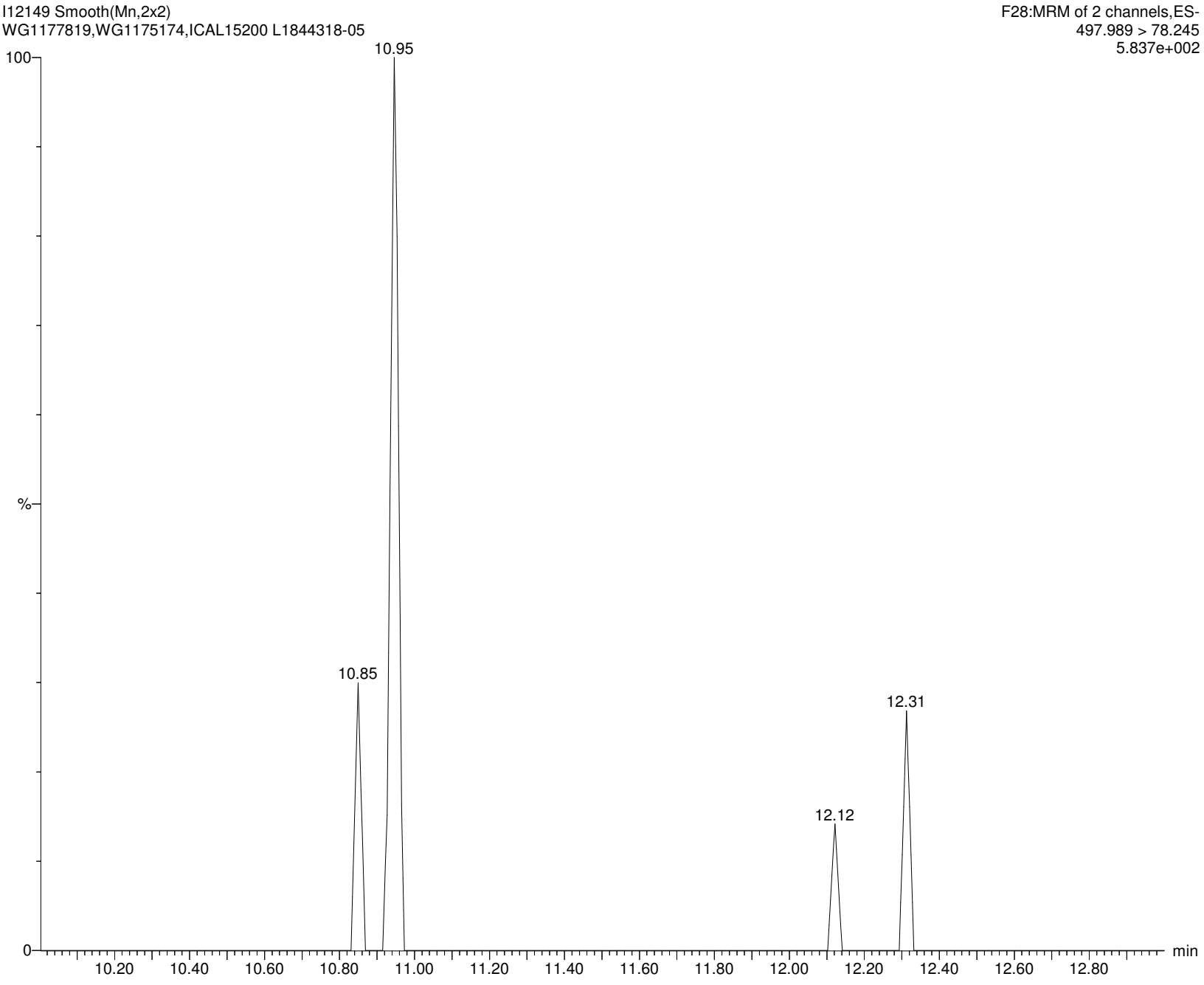

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:47 Eastern Standard Time

Name: I12149
ID: L1844318-05
Date: 10-Nov-2018
Time: 06:02:07
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User: LCMS01:AJ
Vial: 1:C,2
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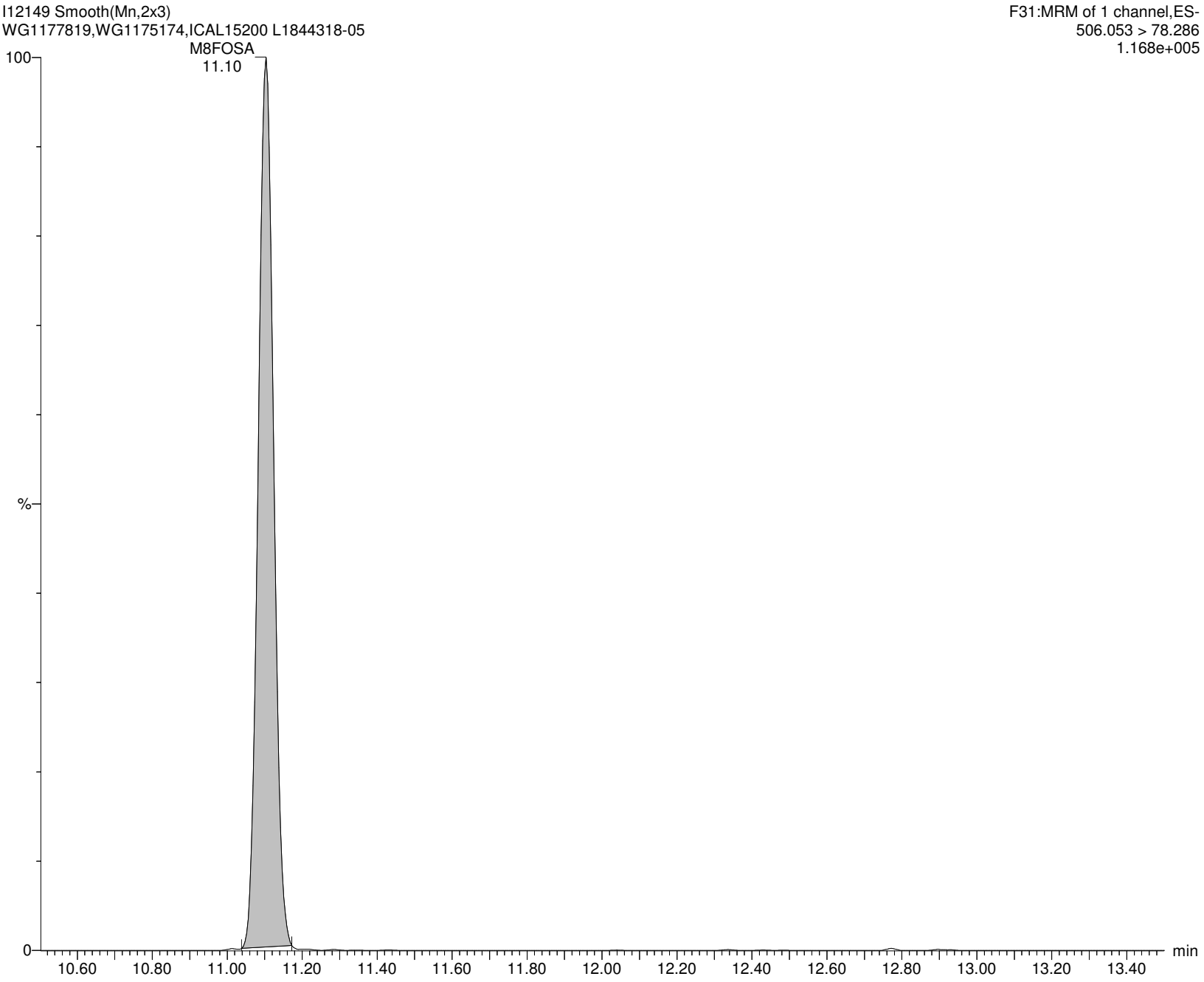

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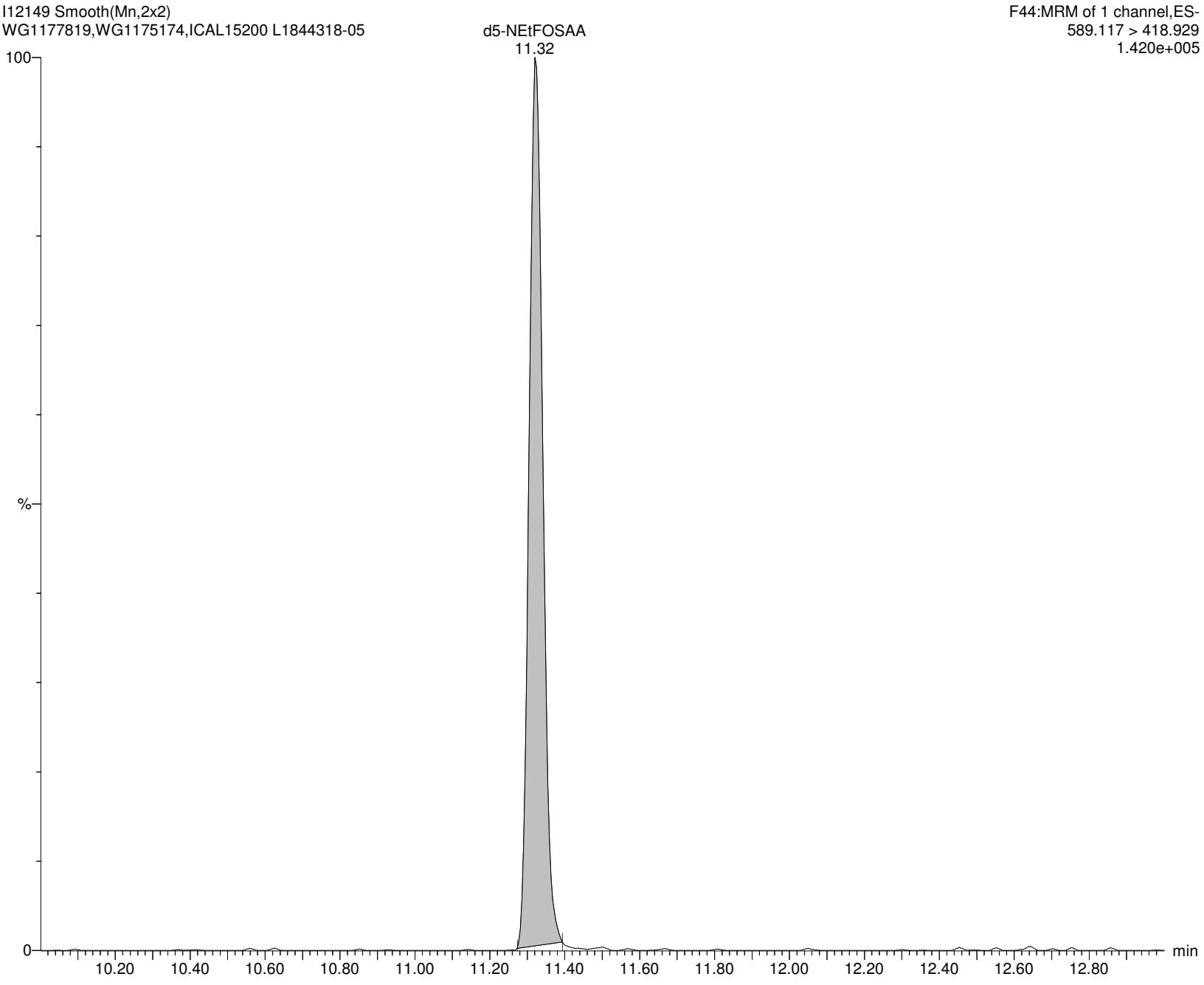

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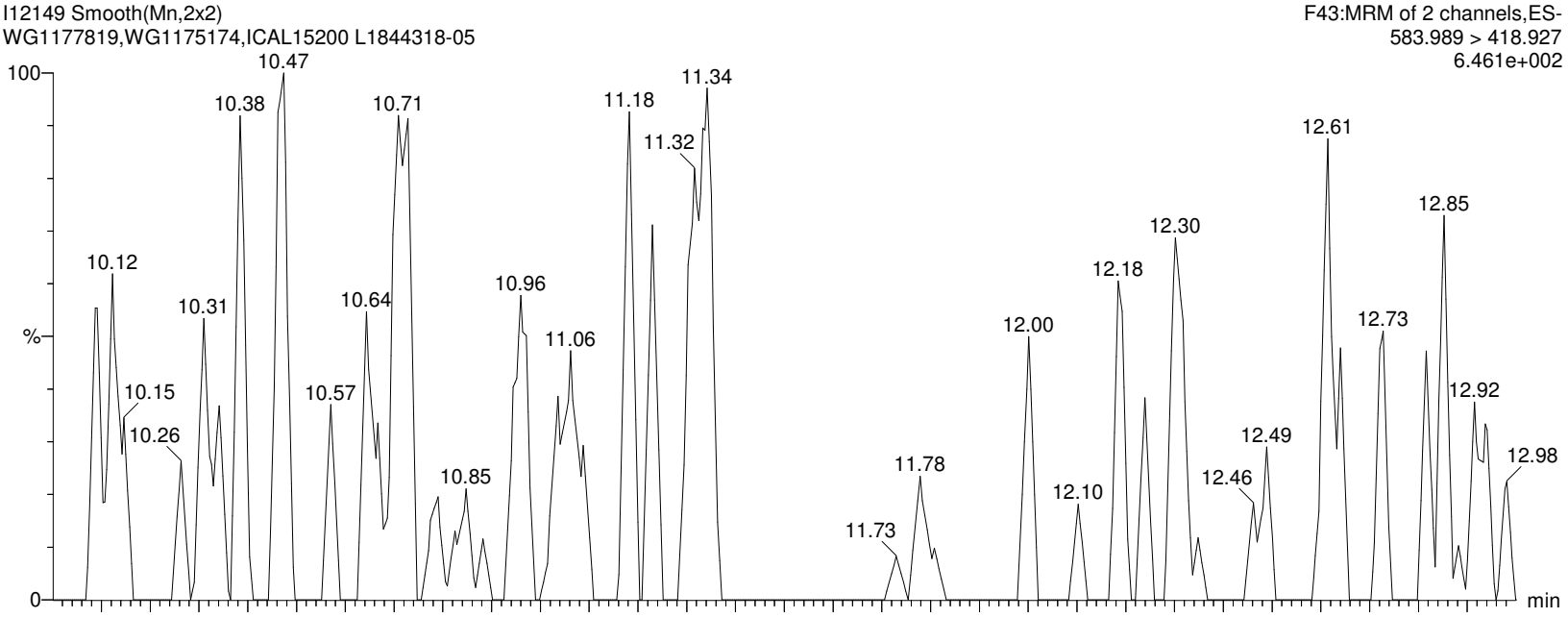

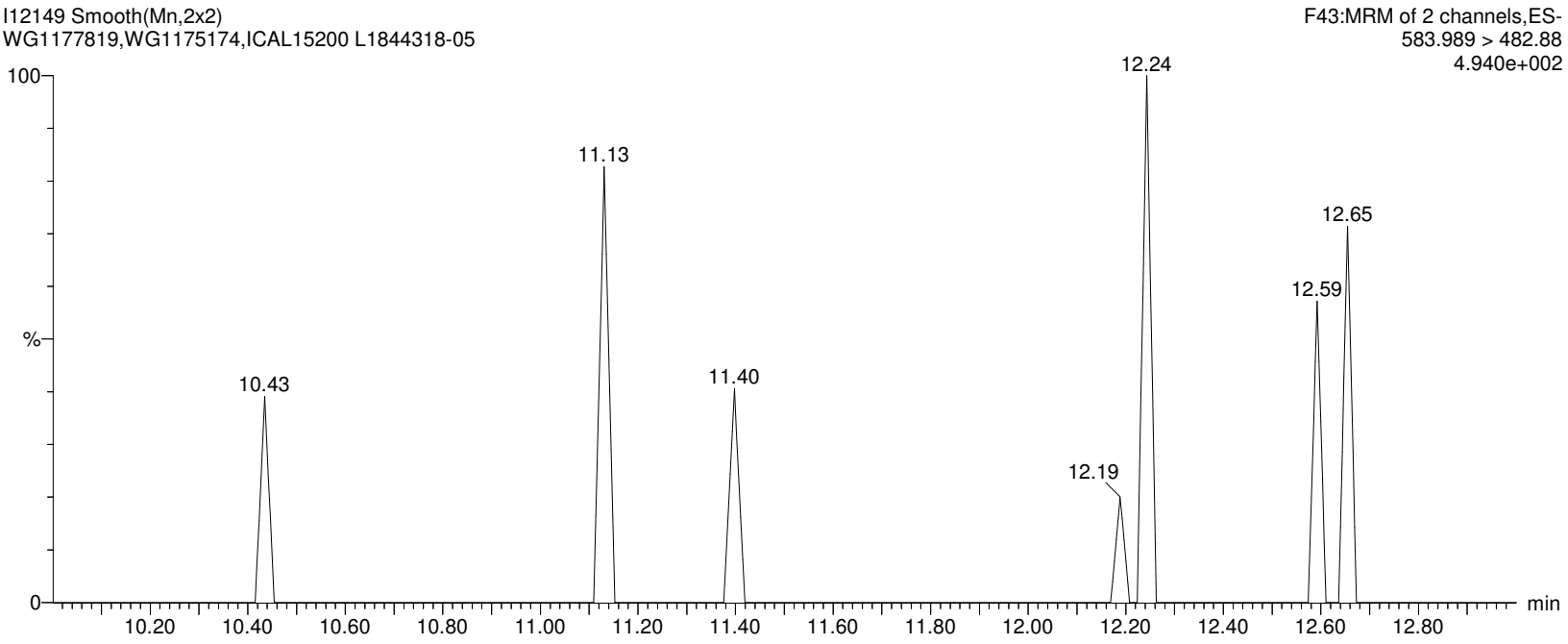

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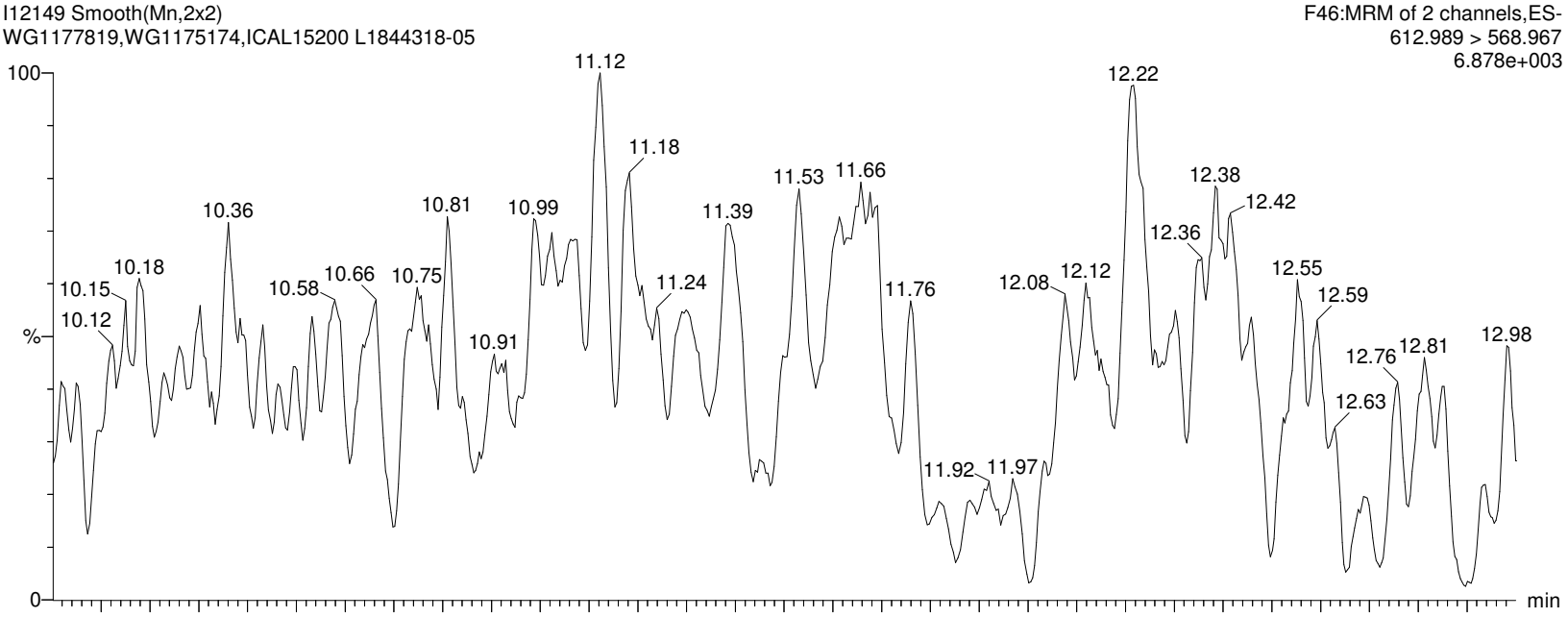

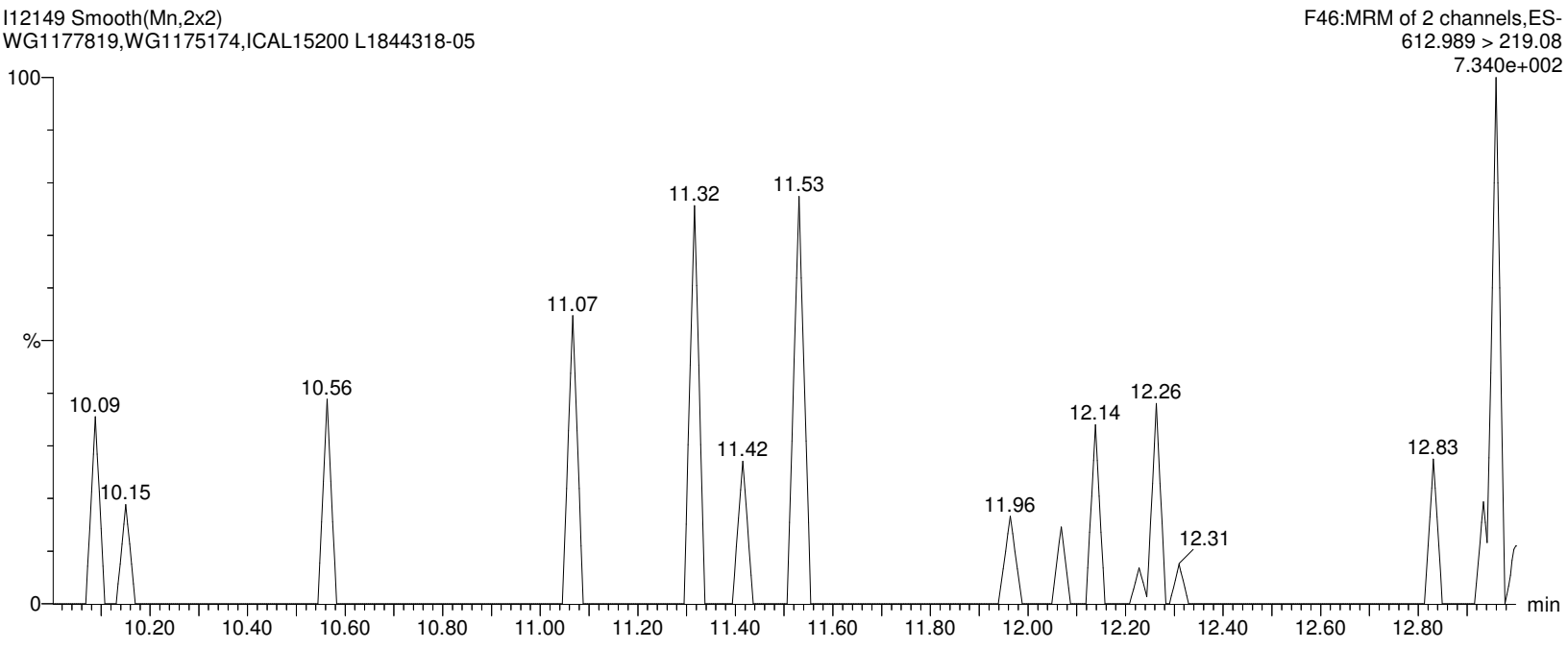

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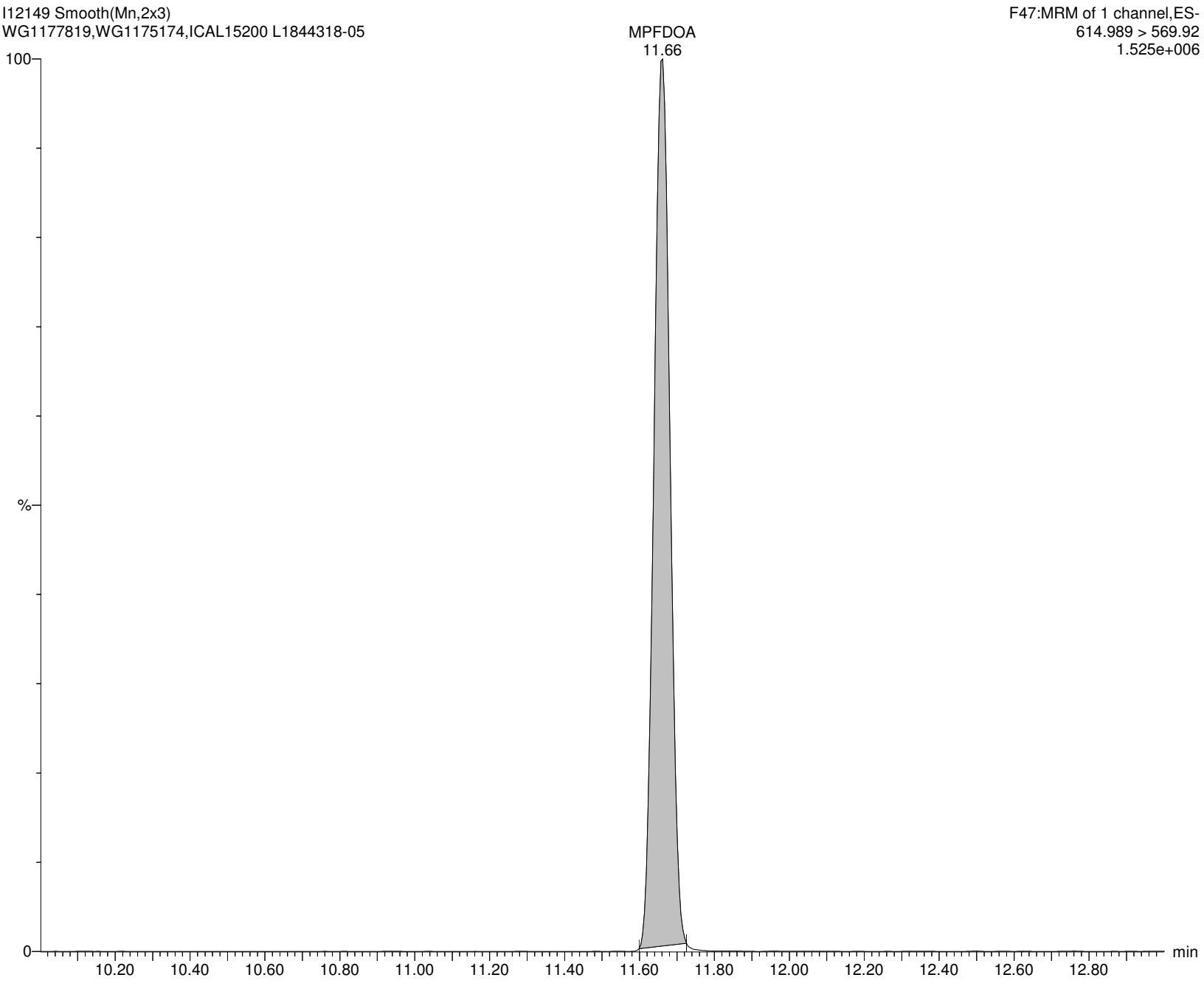

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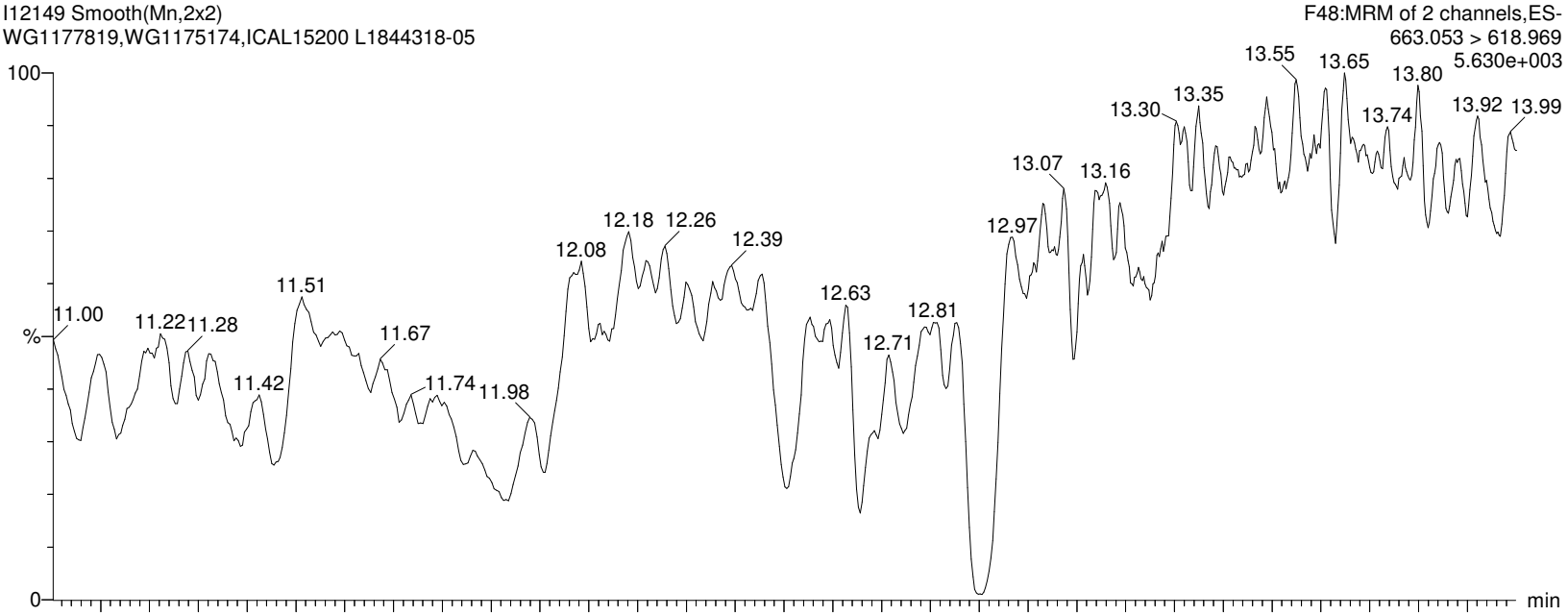

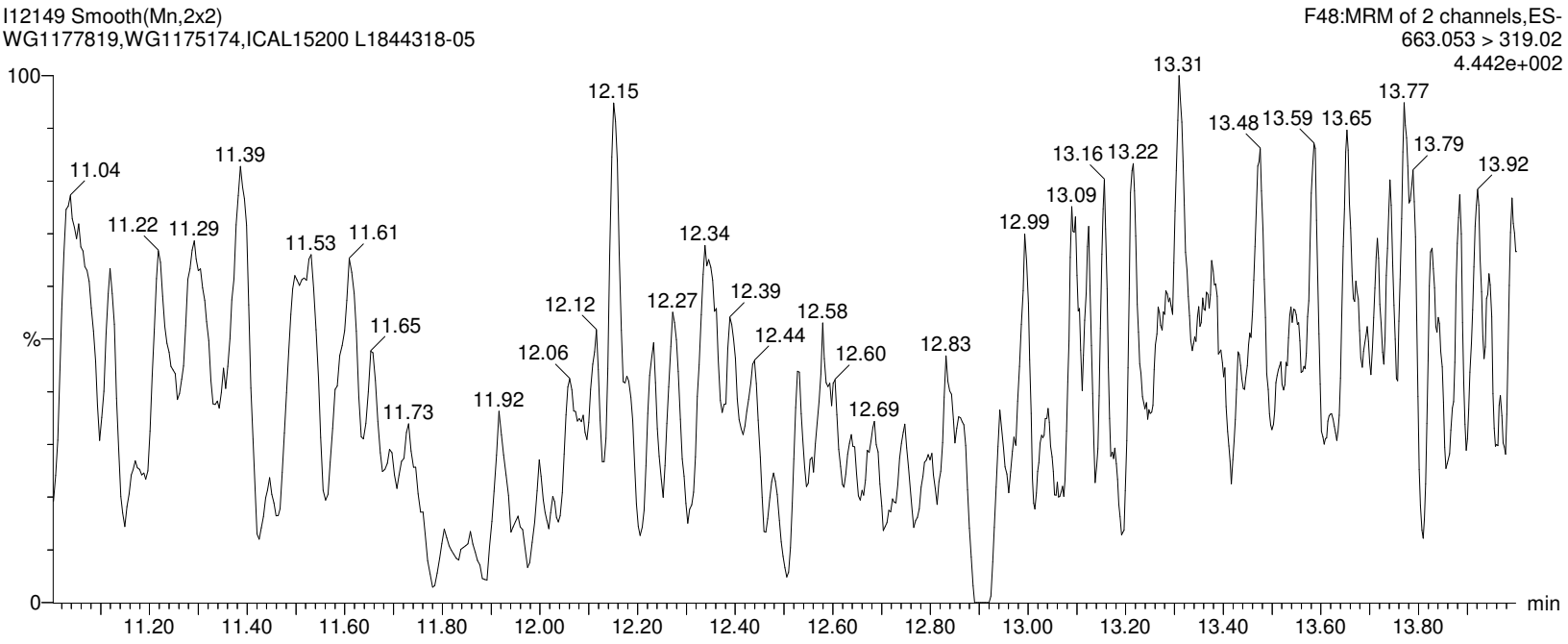

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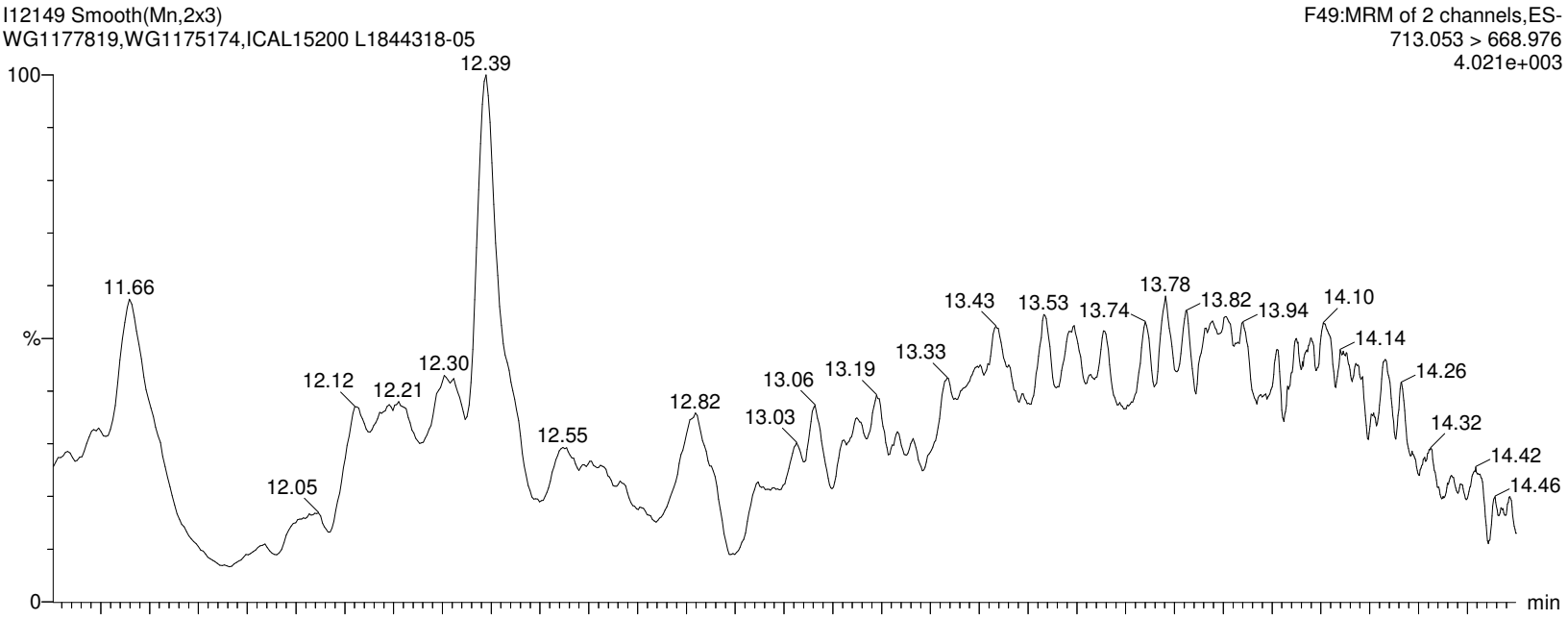

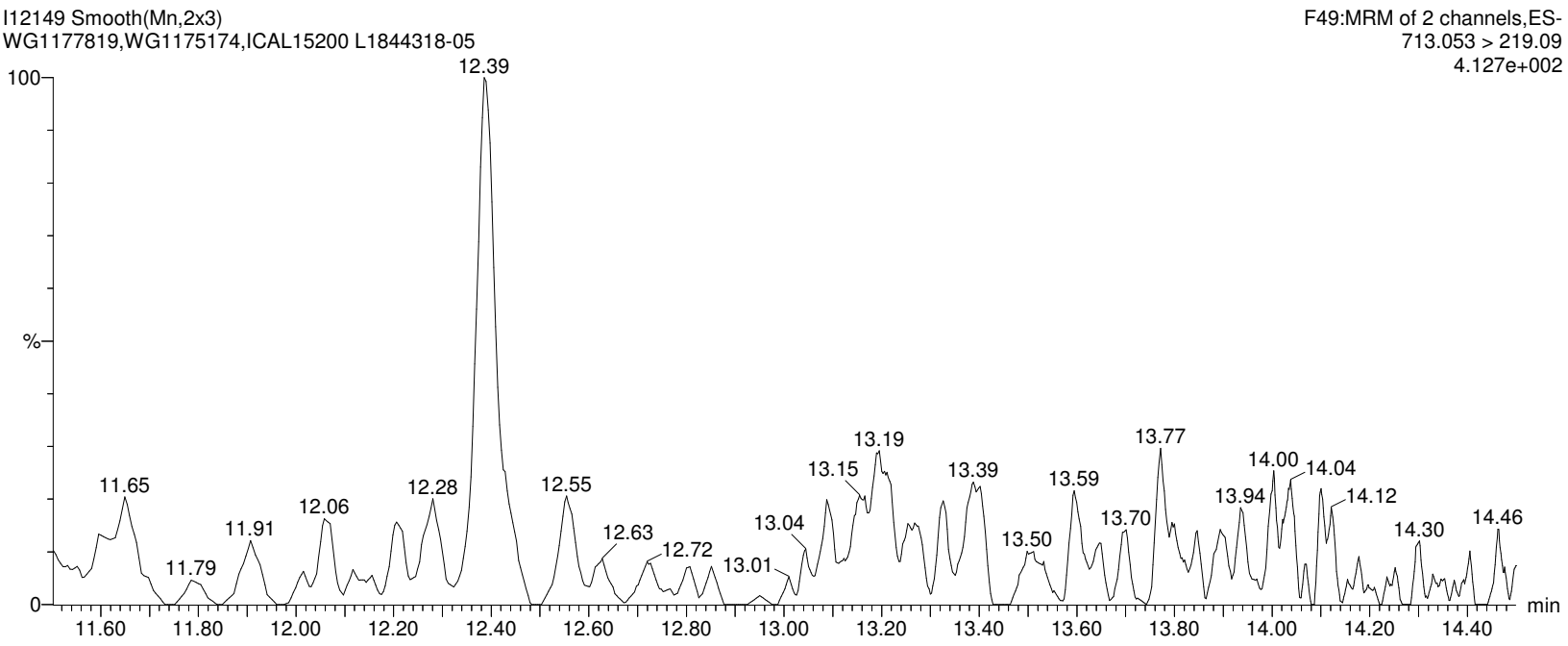

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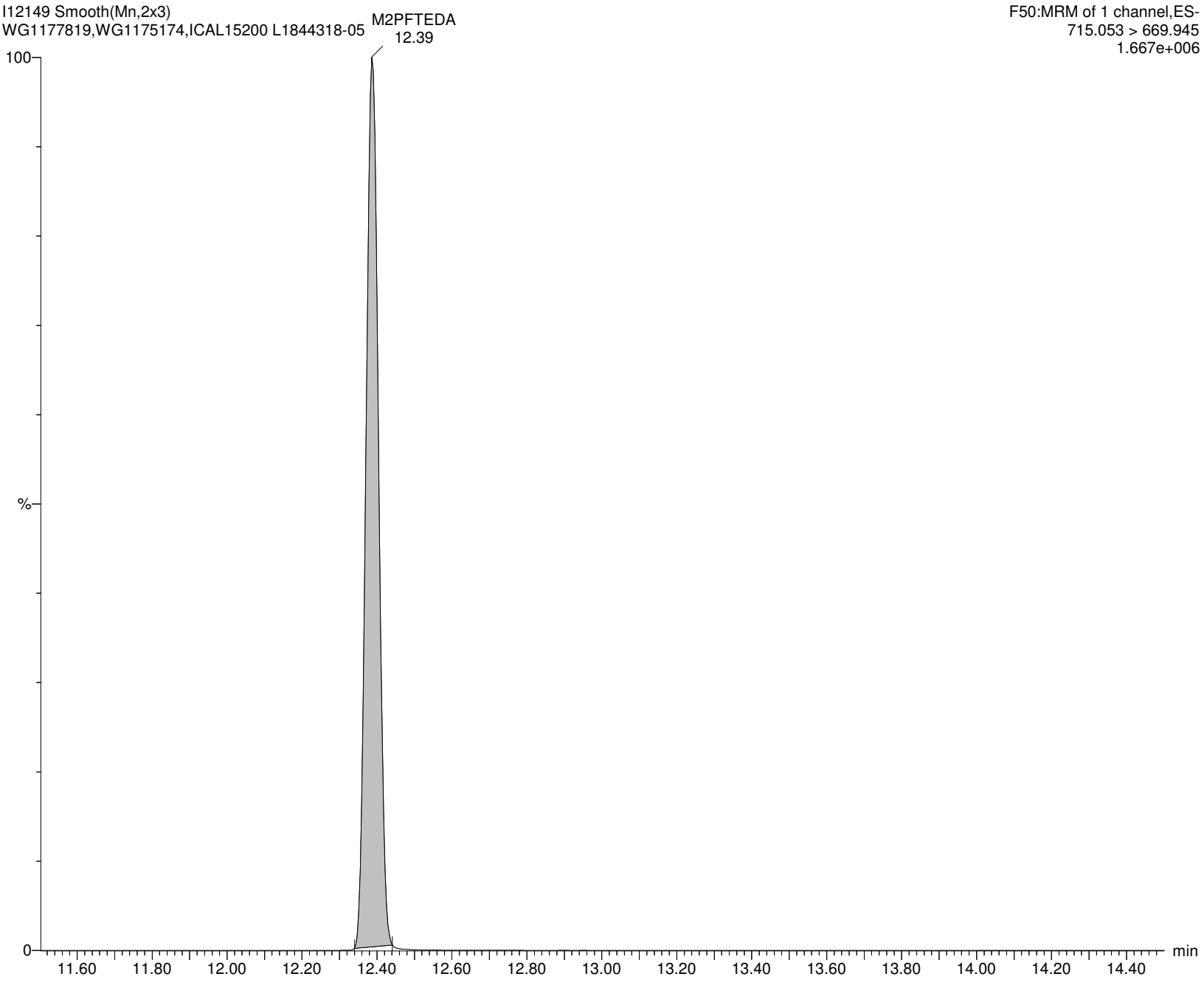

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-06
Name: I12152
Date: 10-Nov-2018
Time: 06:51:45
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	4525		1.075		na	
2	M3PFBA	INT STD	2.13	215.926 > 172.122	48190		5.206		na	52.1
3	MPFBA	INT STD	2.13	216.926 > 172.137	48178		10.525		na	105.2
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.11	267.989 > 223.081	60081		10.171		na	101.7
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	11397		8.281		na	82.8
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8813		10.324		na	103.2
10	PFHxA	307-24-4	7.06	312.989 > 269.028	1987		0.256		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	80095		9.148		na	91.5
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	2106		0.191		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	111867		10.866		na	108.7
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4	8.51	398.926 > 80.295	77		0.066	1.74	NO	
17	PFHxS	355-46-4		398.926 > 80.295	77		0.066		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8363		10.940		na	109.4
19	br-PFOA	335-67-1	9.06	412.989 > 368.9	621		0.061	5.62	NO	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	5043		0.498	10.70	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	121530		6.437		na	64.4
22	PFOA	335-67-1		412.989 > 368.9	5665		0.560		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	103697		10.581		na	105.8
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	4885		6.894		na	68.9
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1	10.02	462.989 > 418.931	880		0.114		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	92267		9.439		na	94.4
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	290		0.197	5.22	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	386		0.368	1.80	YES	
31	PFOS	1763-23-1		498.989 > 80.294	676		0.564		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	11040		6.815		na	68.2
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10050		9.762		na	97.6
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	87924		5.914		na	59.1
36	M6PFDA	INT STD	10.65	519.053 > 473.931	78813		9.928		na	99.3
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2420		5.815		na	58.2
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6223		7.271		na	72.7
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	115		0.183		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	70973		10.681		na	106.8
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	12230		4.318		na	43.2
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5200		6.299		na	63.0
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND	0.00	YES	
49	PFDoA	307-55-1	11.66	612.989 > 568.967	392		0.065		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	64949		8.699		na	87.0
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7	12.39	713.053 > 668.976	272		0.066		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	49248		8.906		na	89.1

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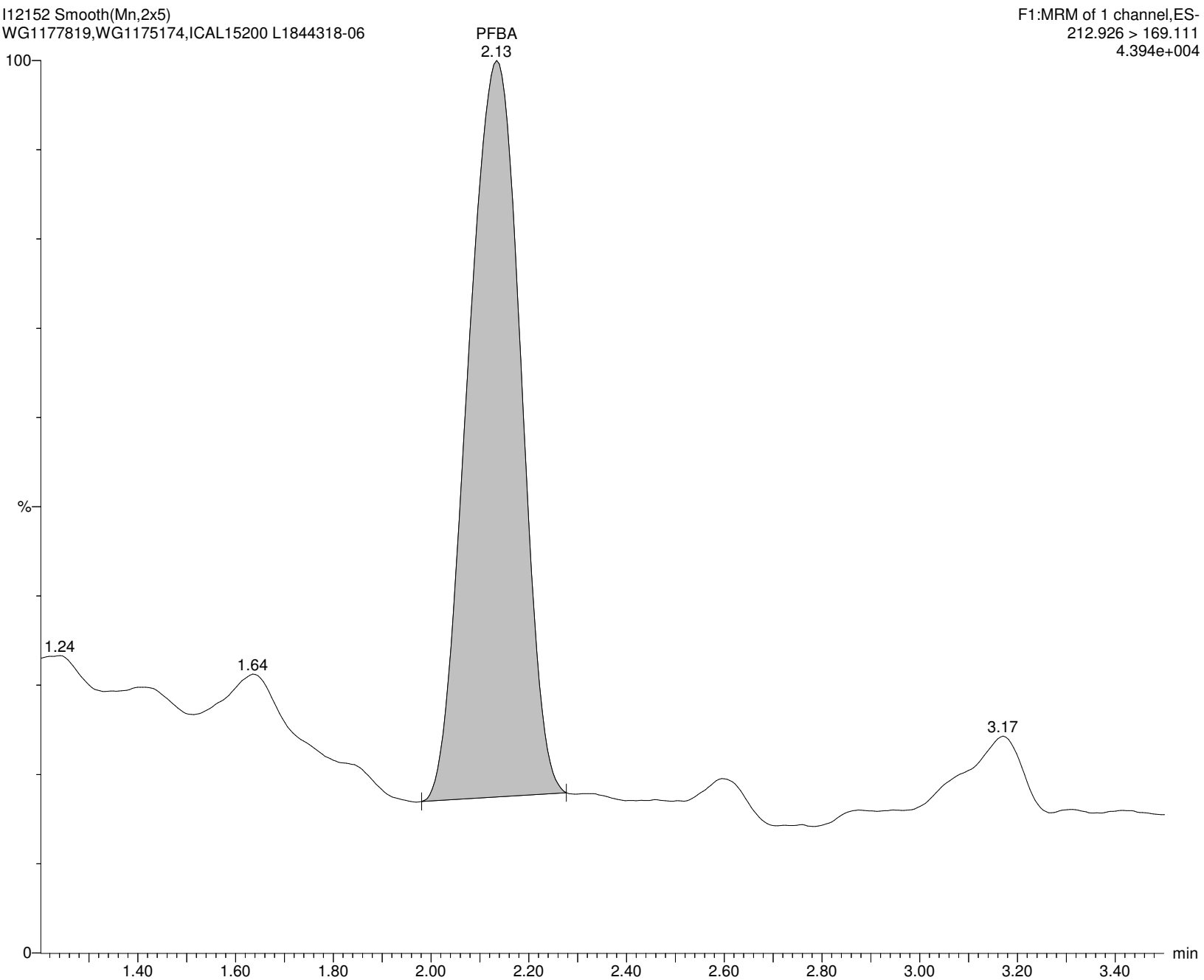

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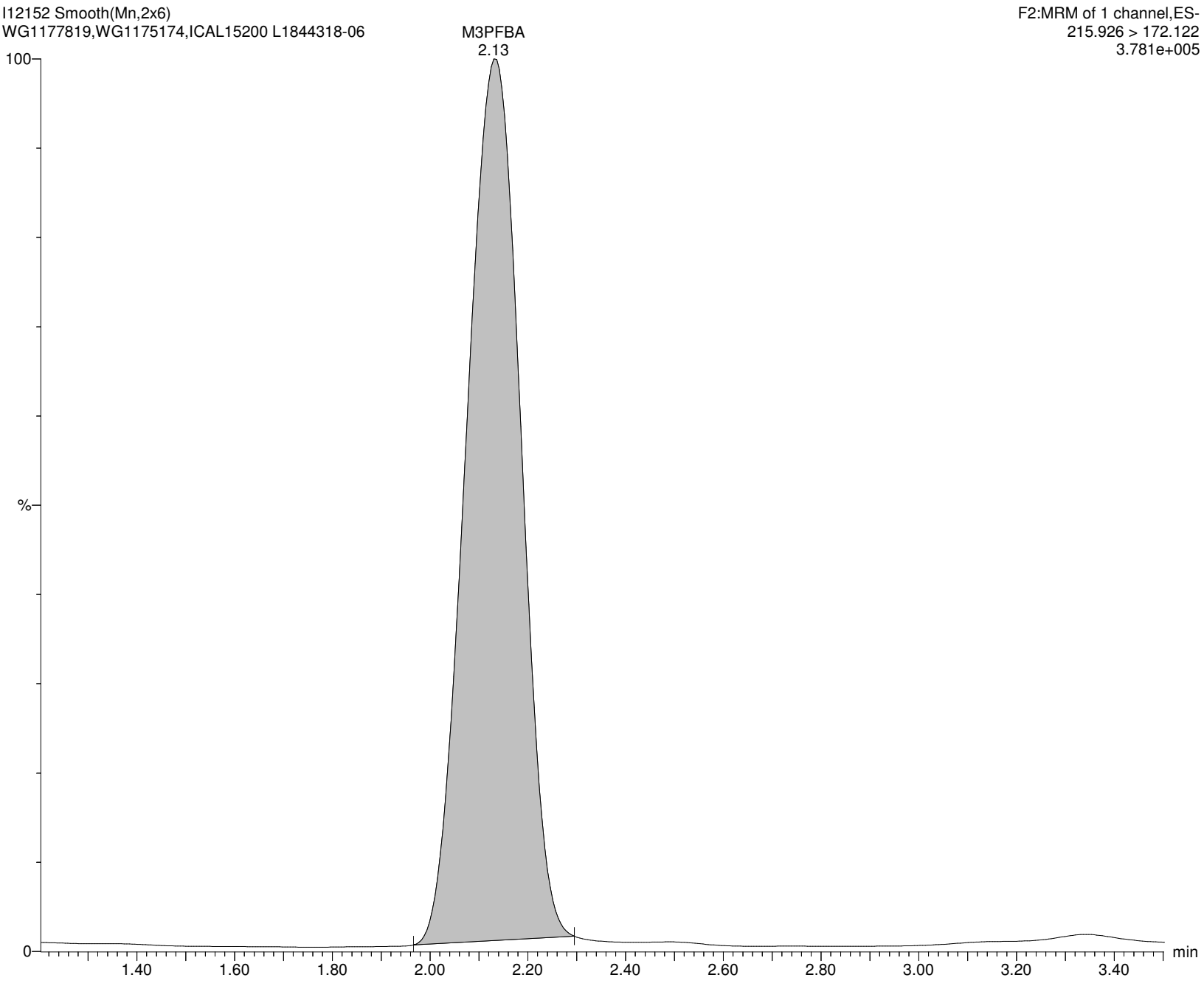

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Printed: Monday, November 12, 2018 13:06:53 Eastern Standard Time

Name: I12152
ID: L1844318-06
Date: 10-Nov-2018
Time: 06:51:45
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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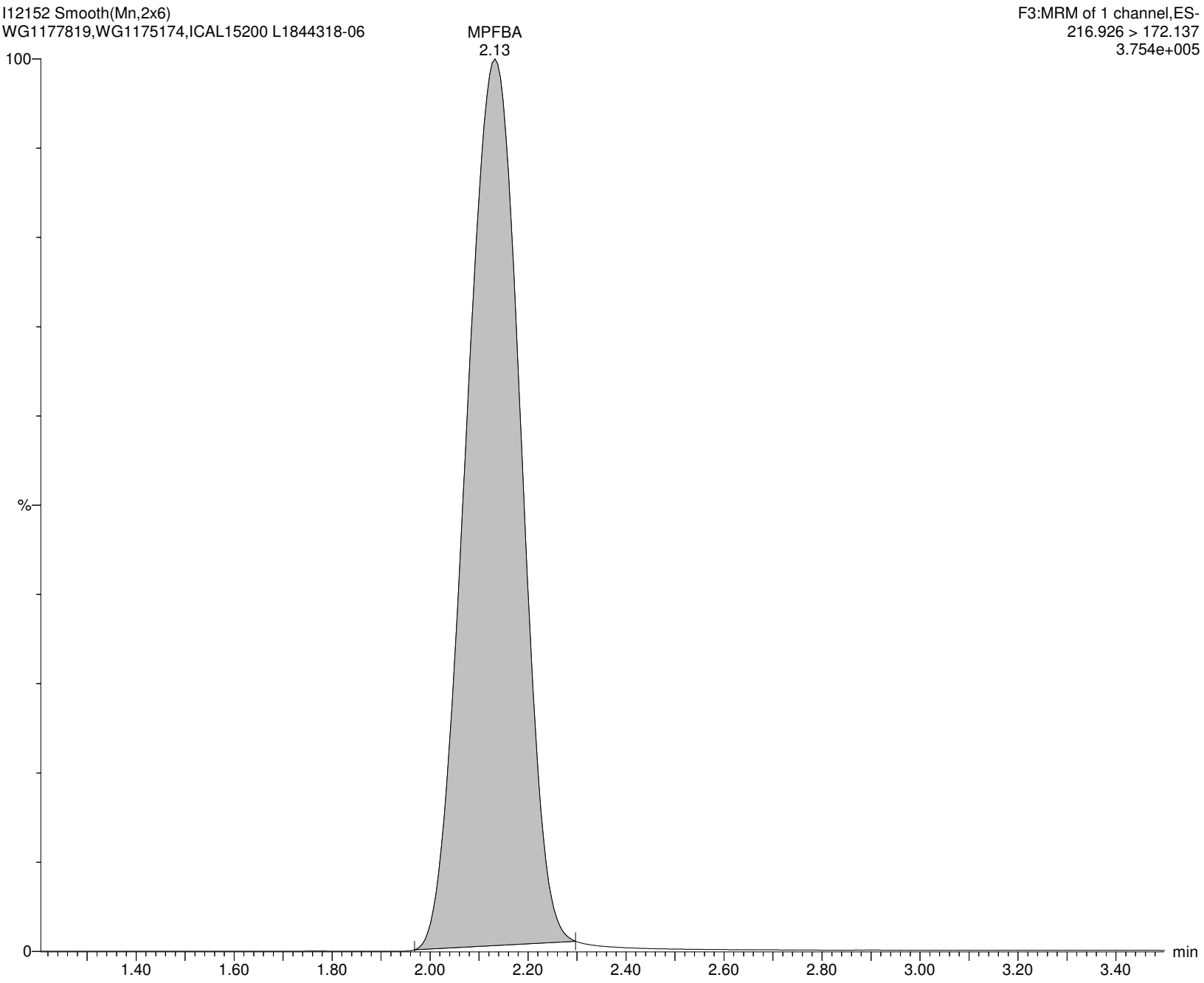

all concentration units in (ng/mL)

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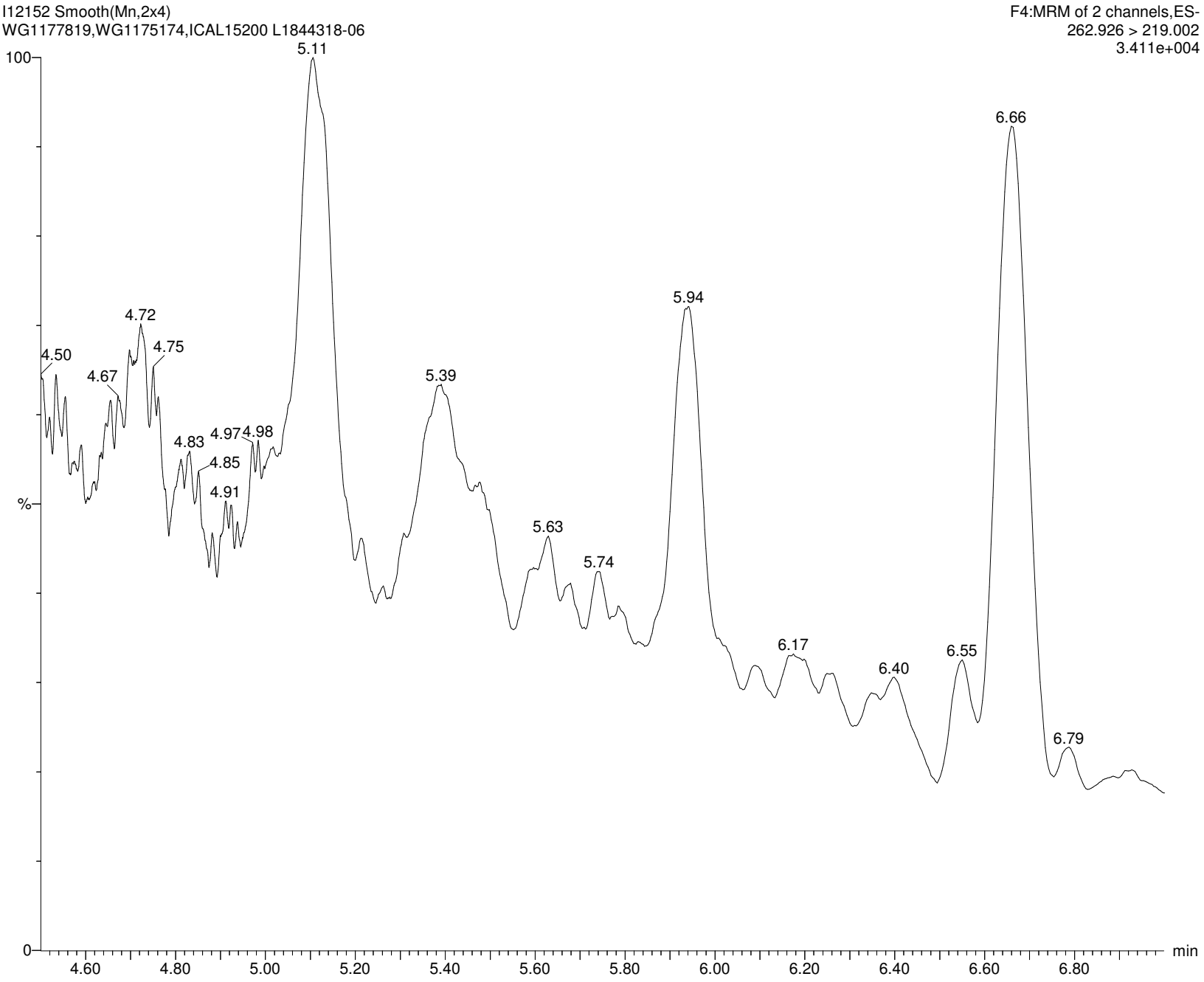

all concentration units in (ng/mL)

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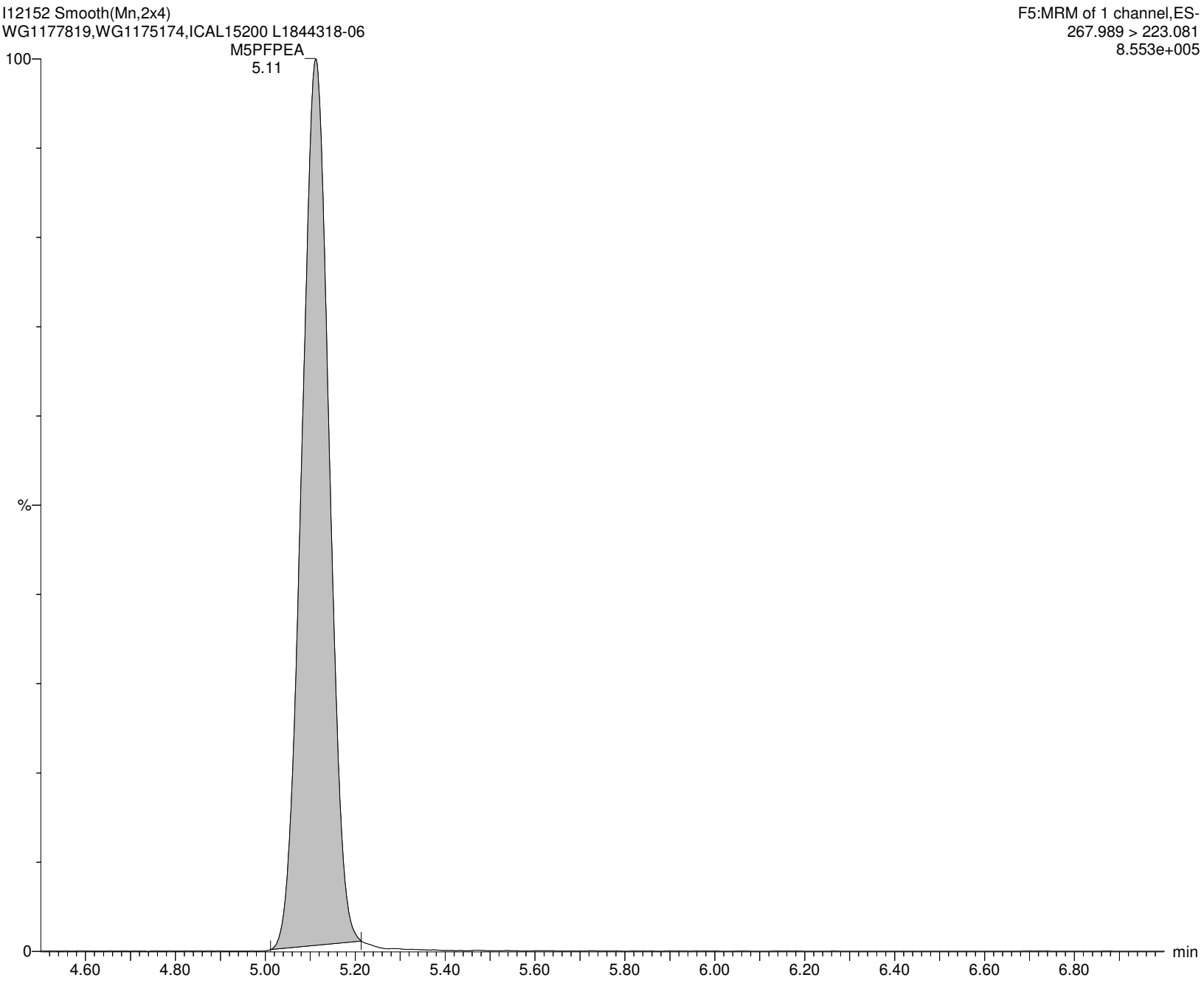

all concentration units in (ng/mL)

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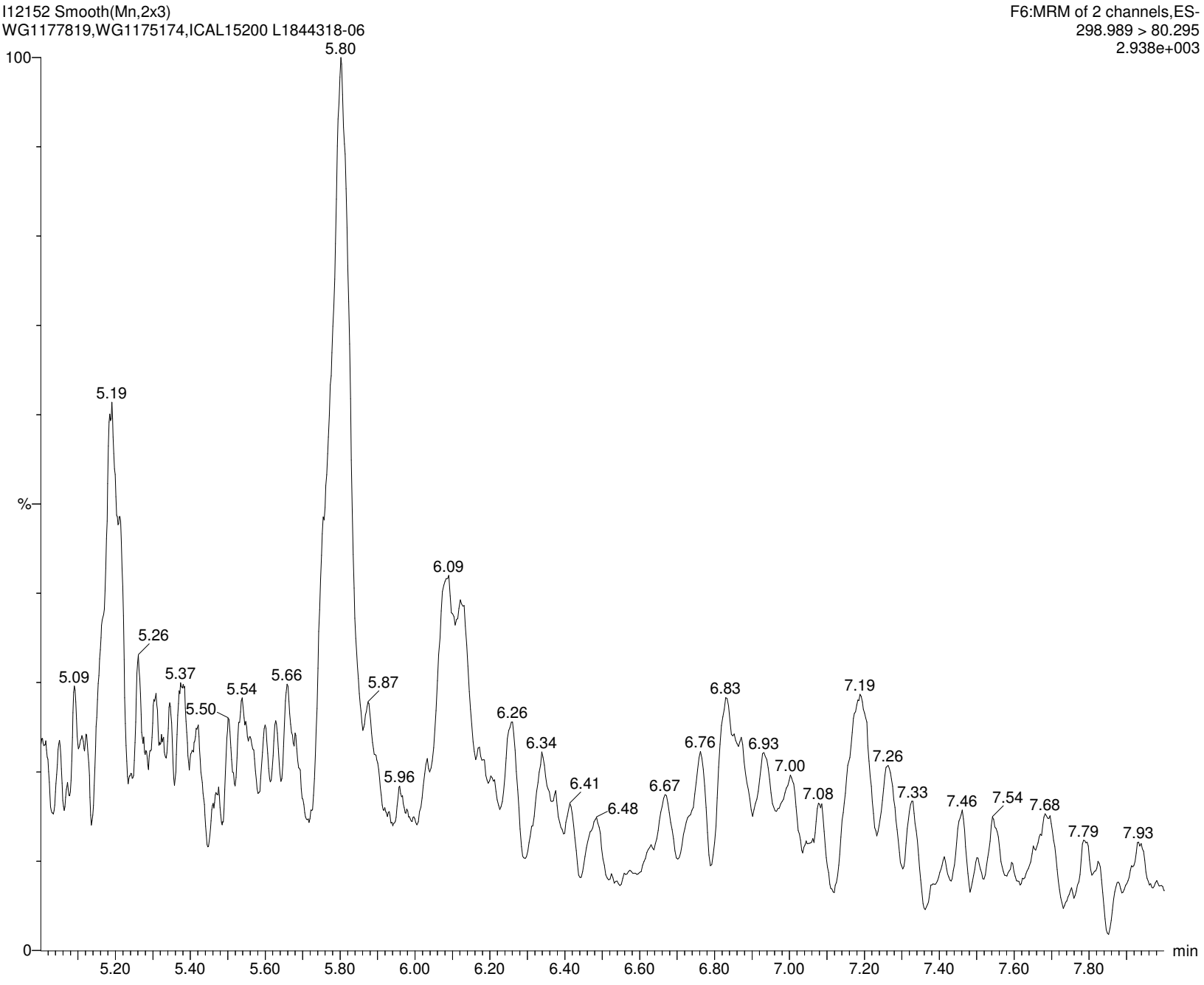

all concentration units in (ng/mL)

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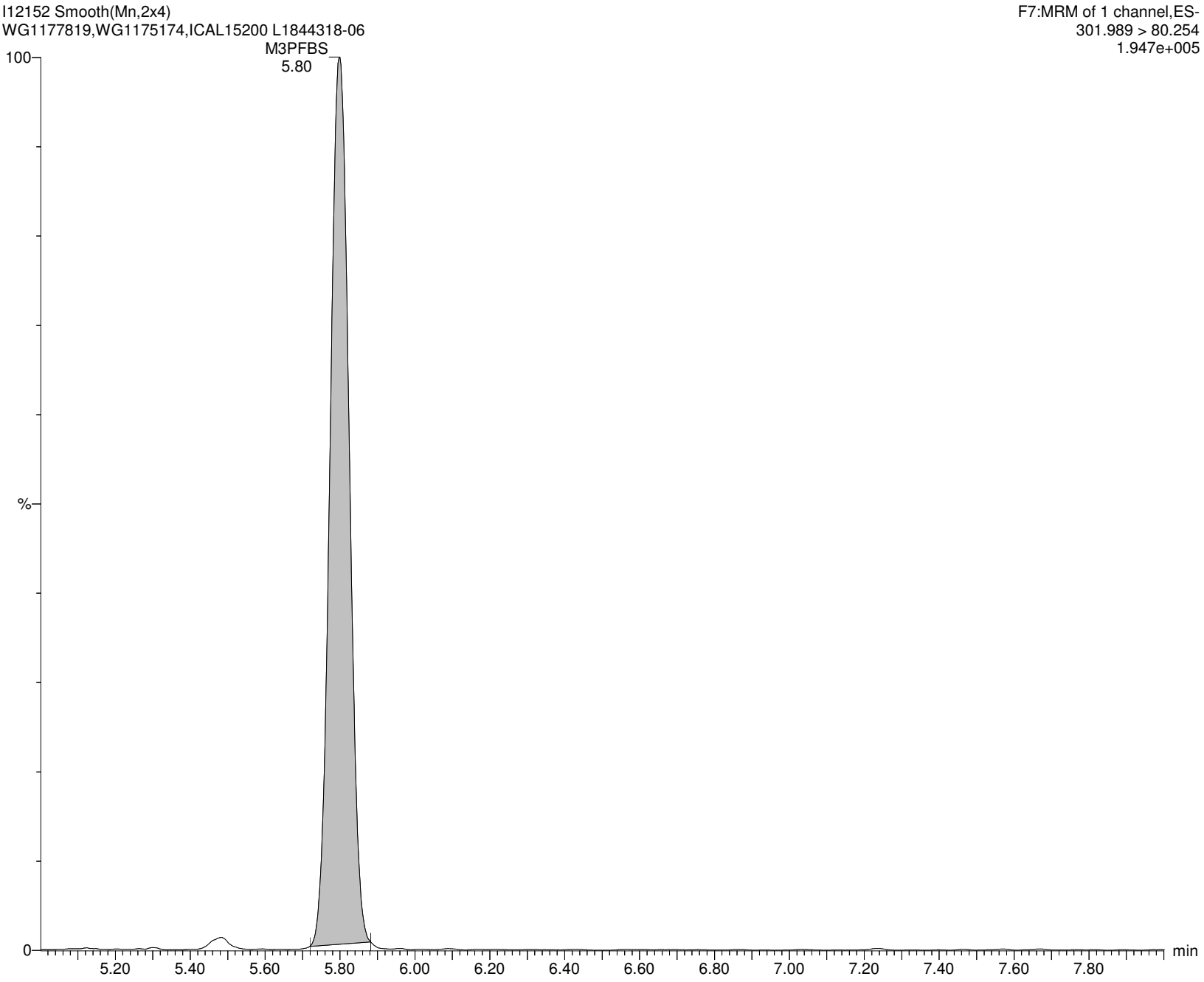

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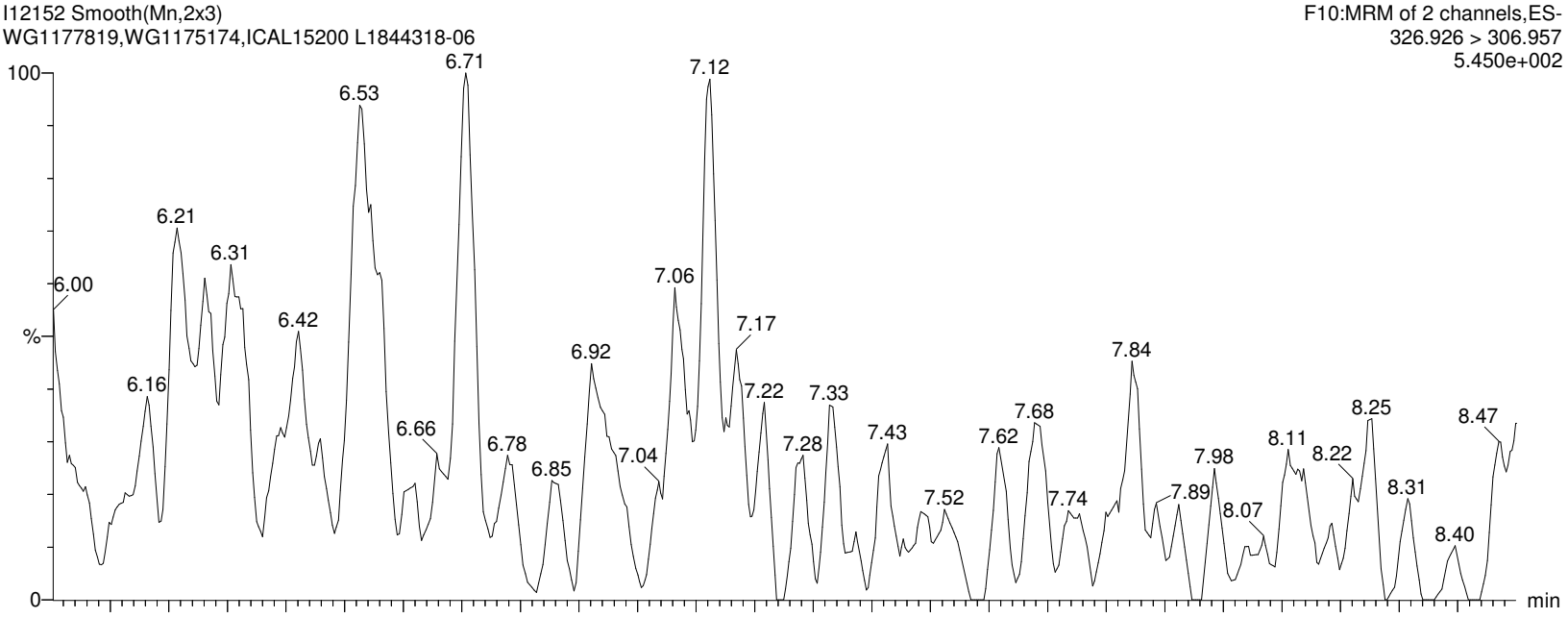
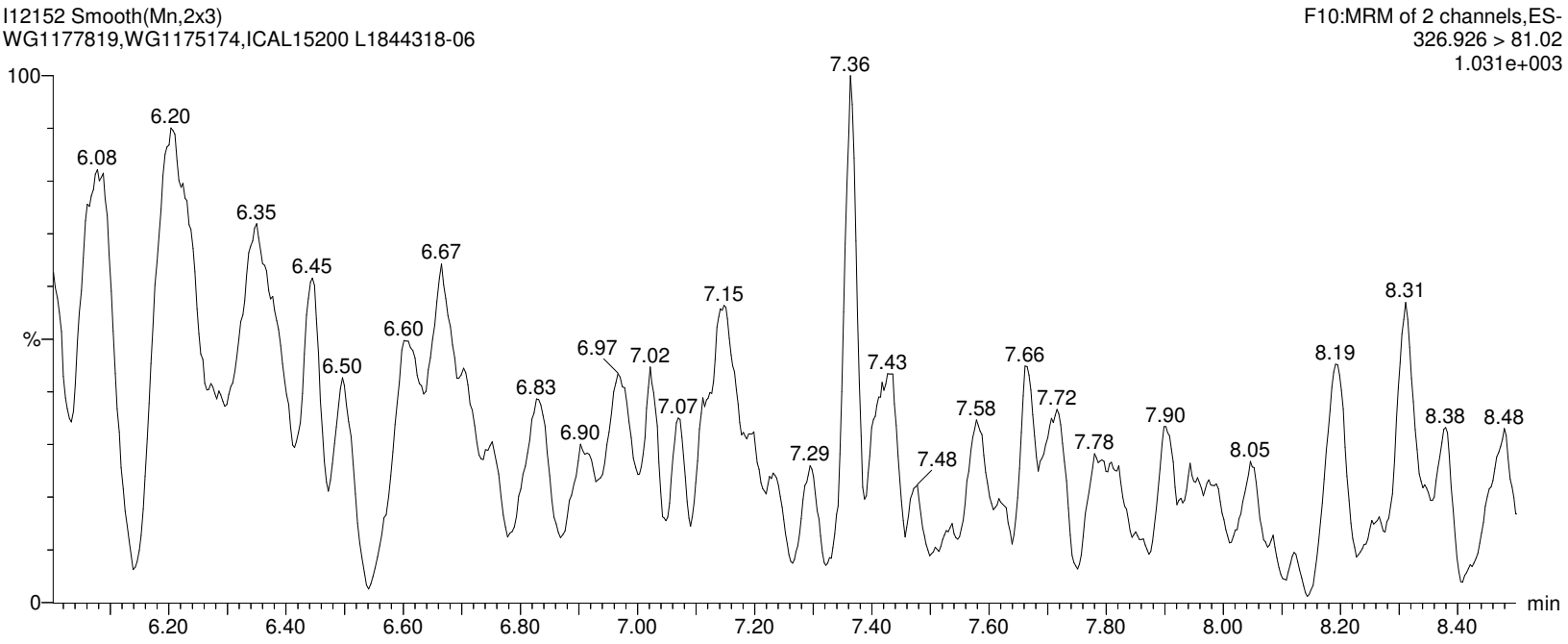
4:2FTS





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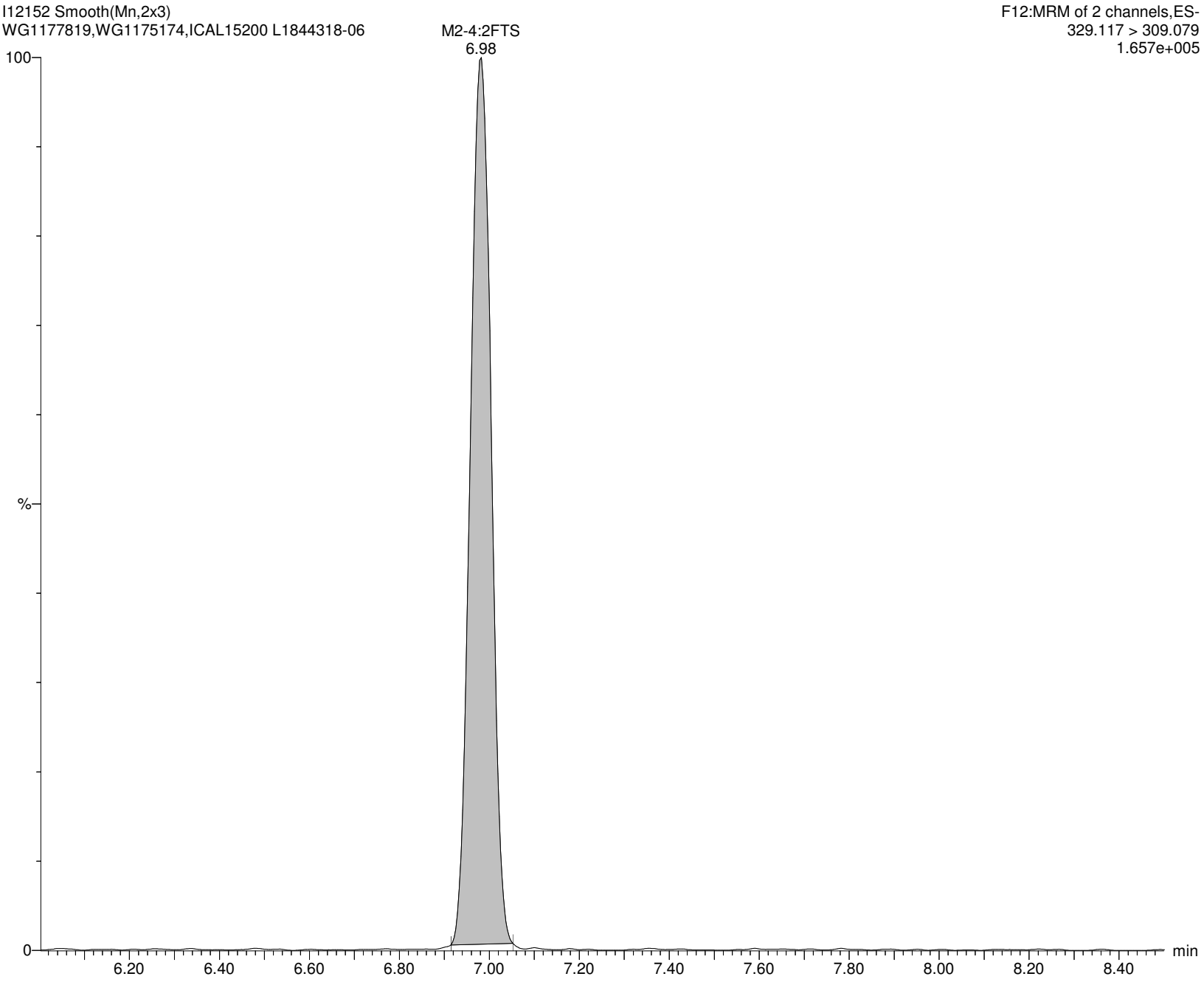

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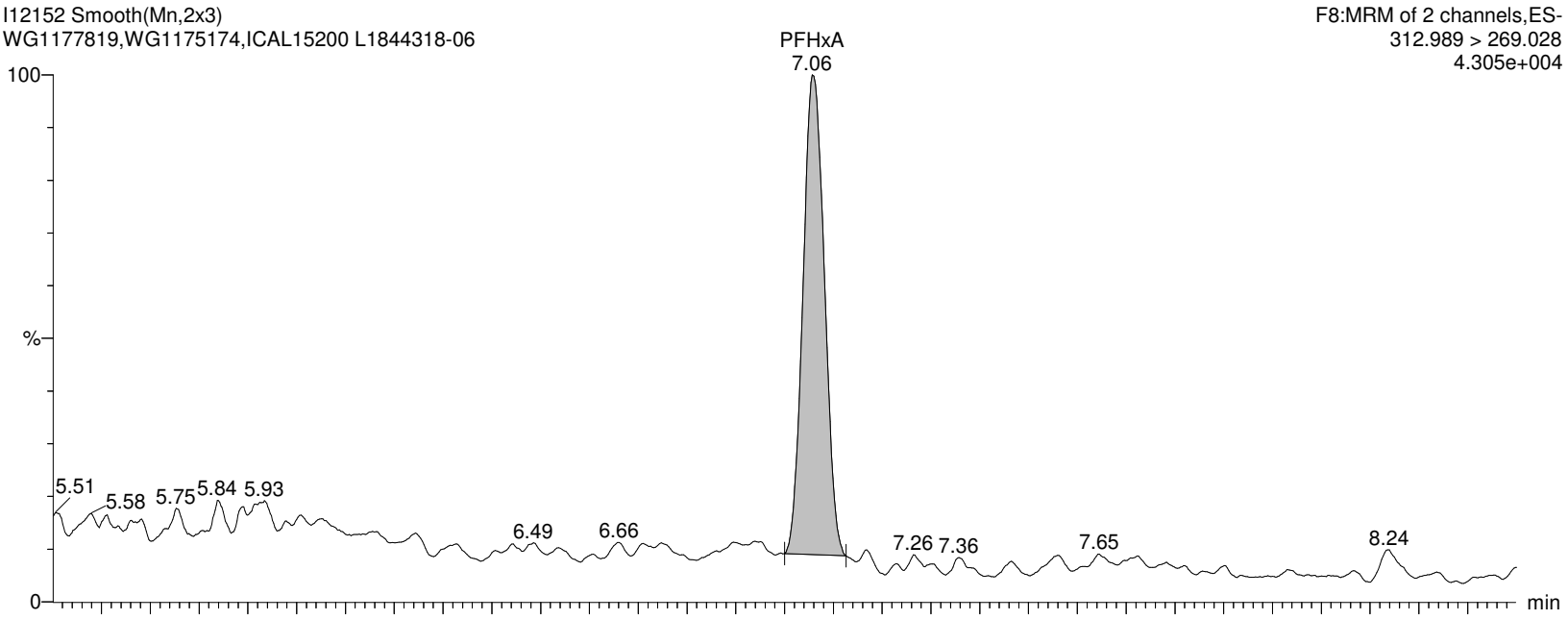

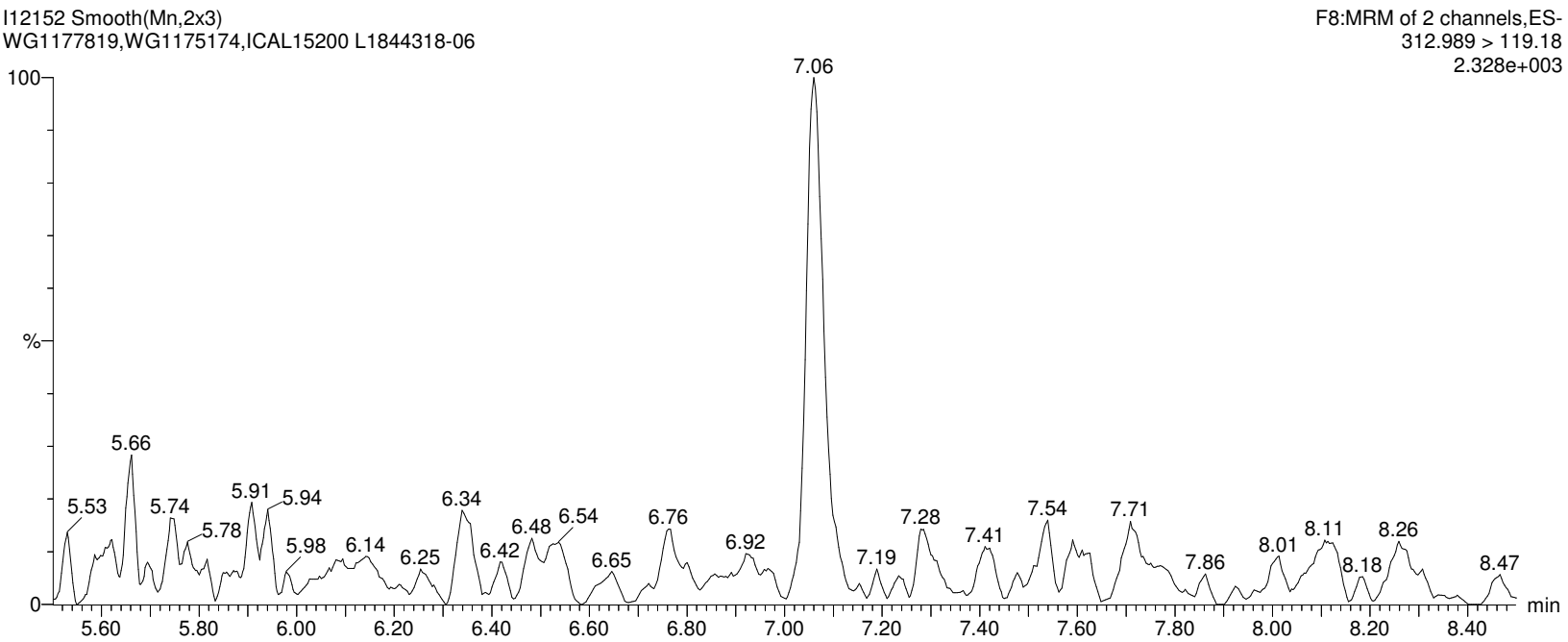

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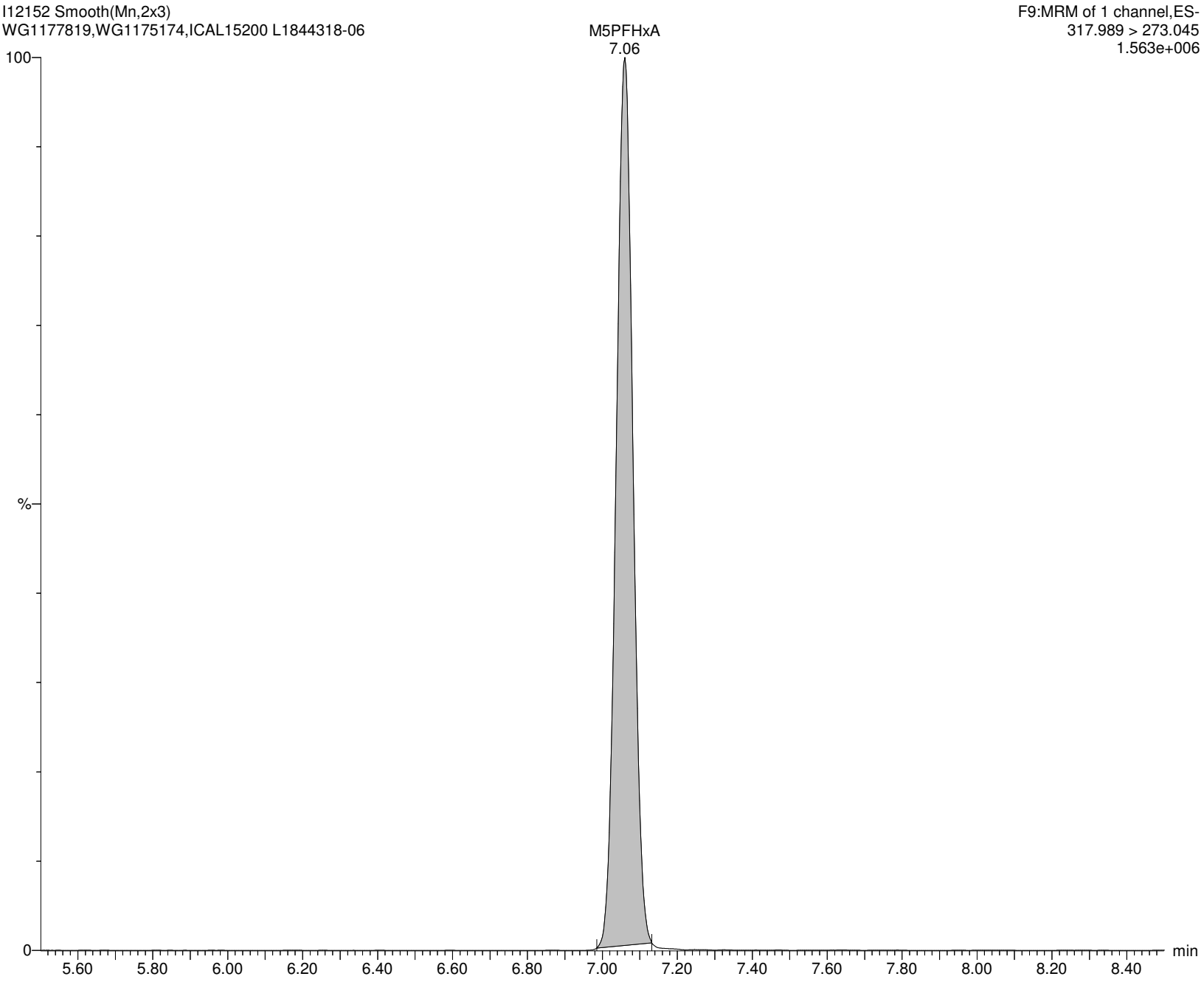

all concentration units in (ng/mL)

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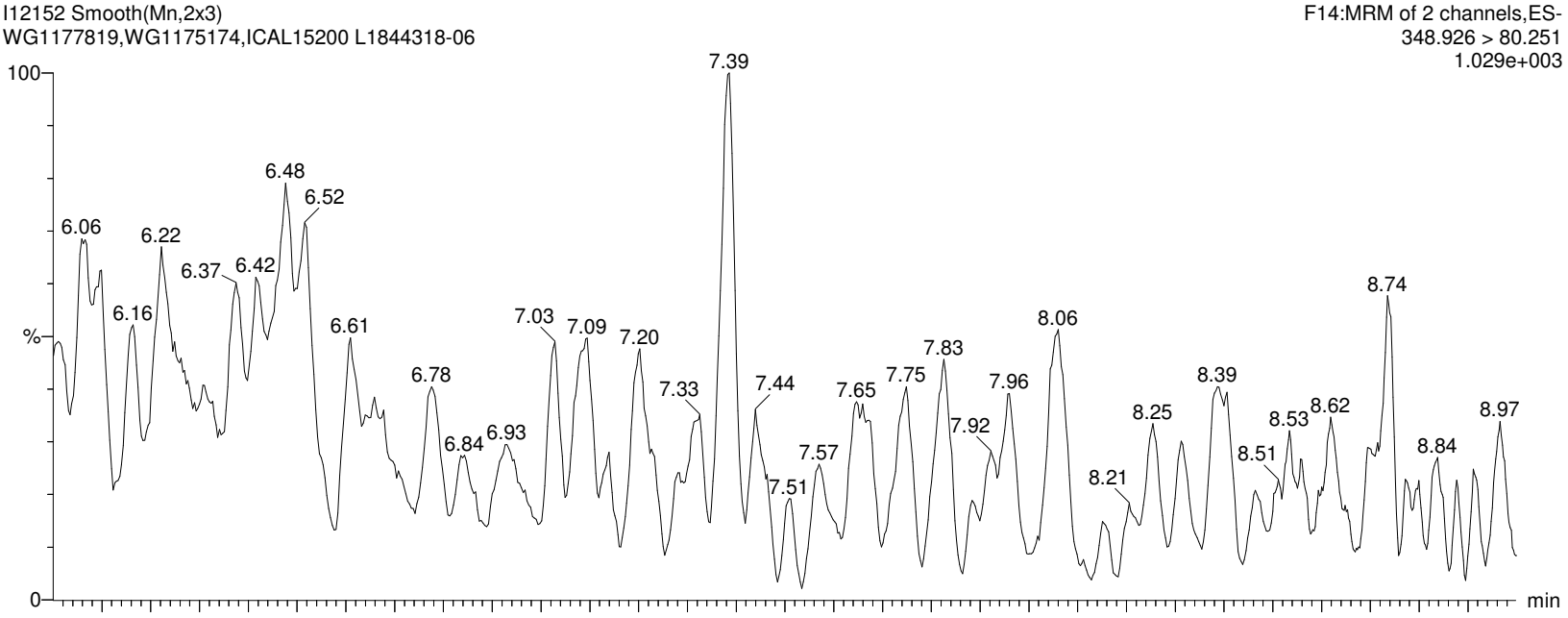

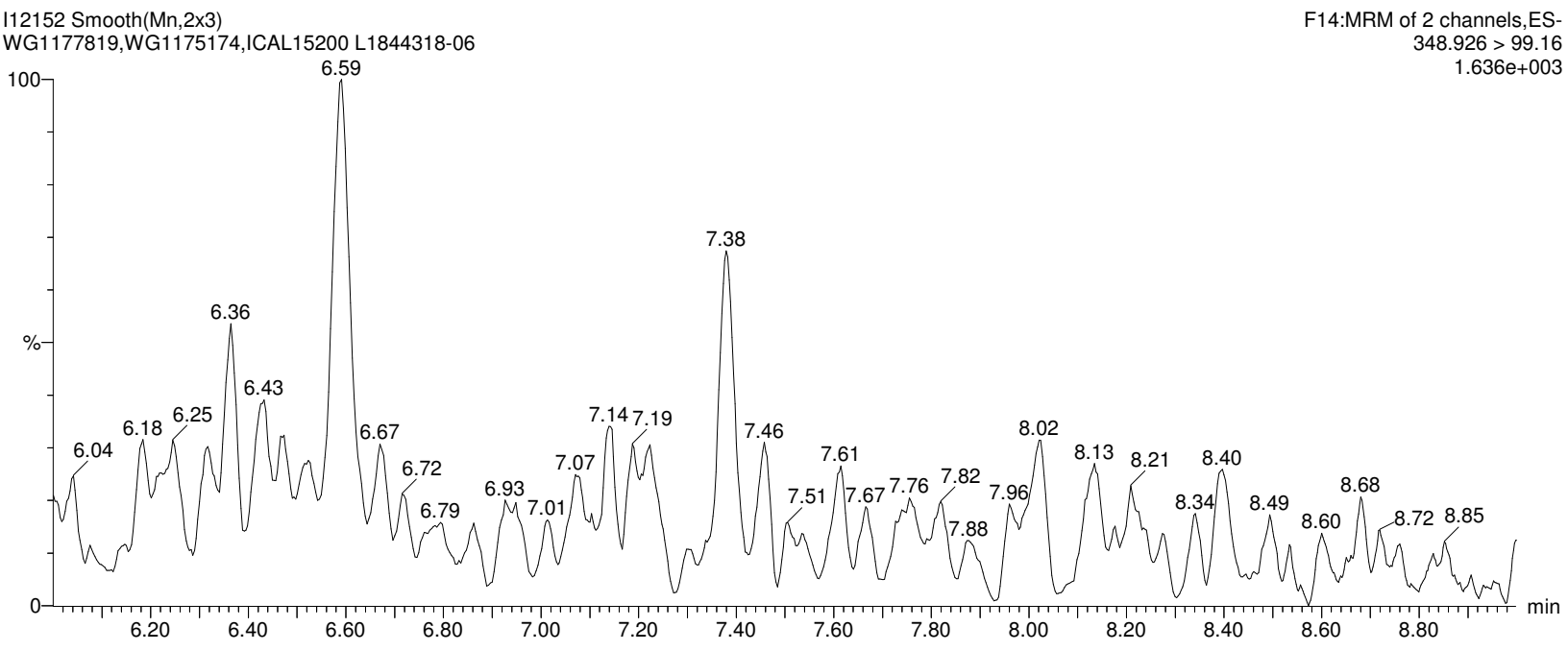

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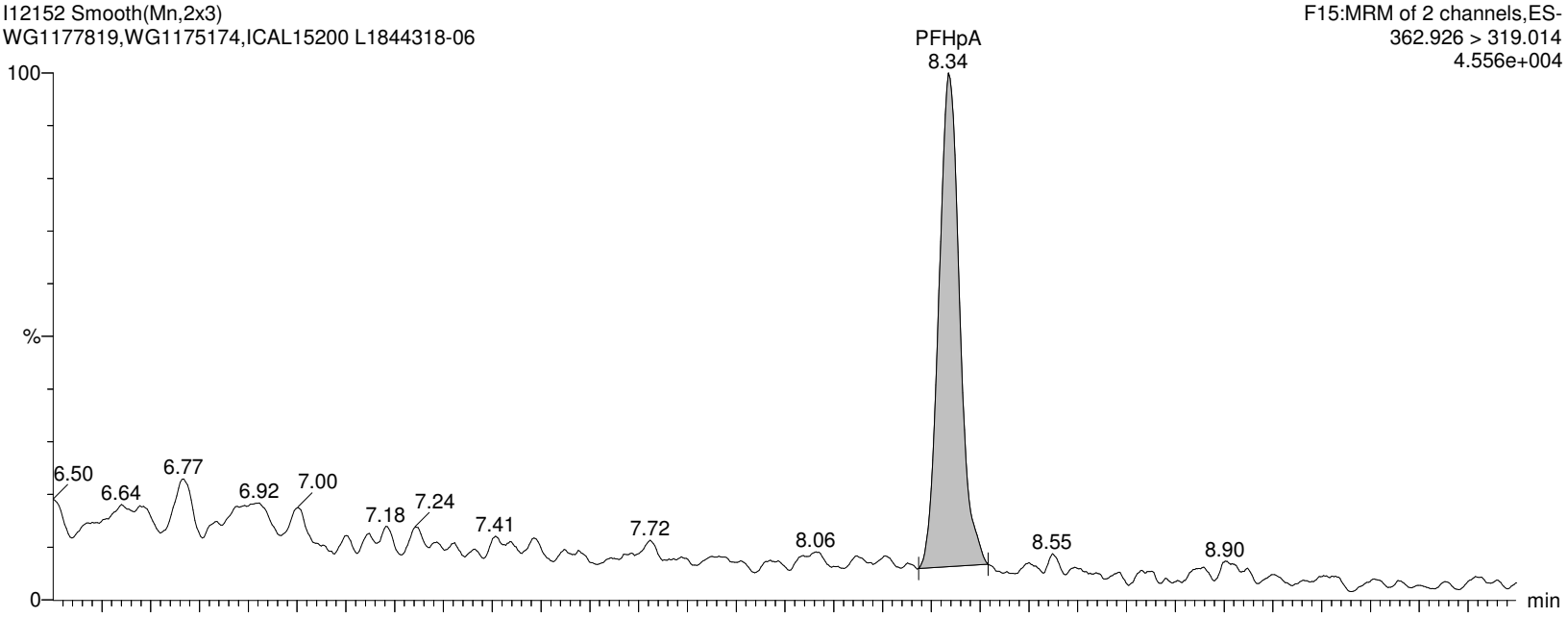

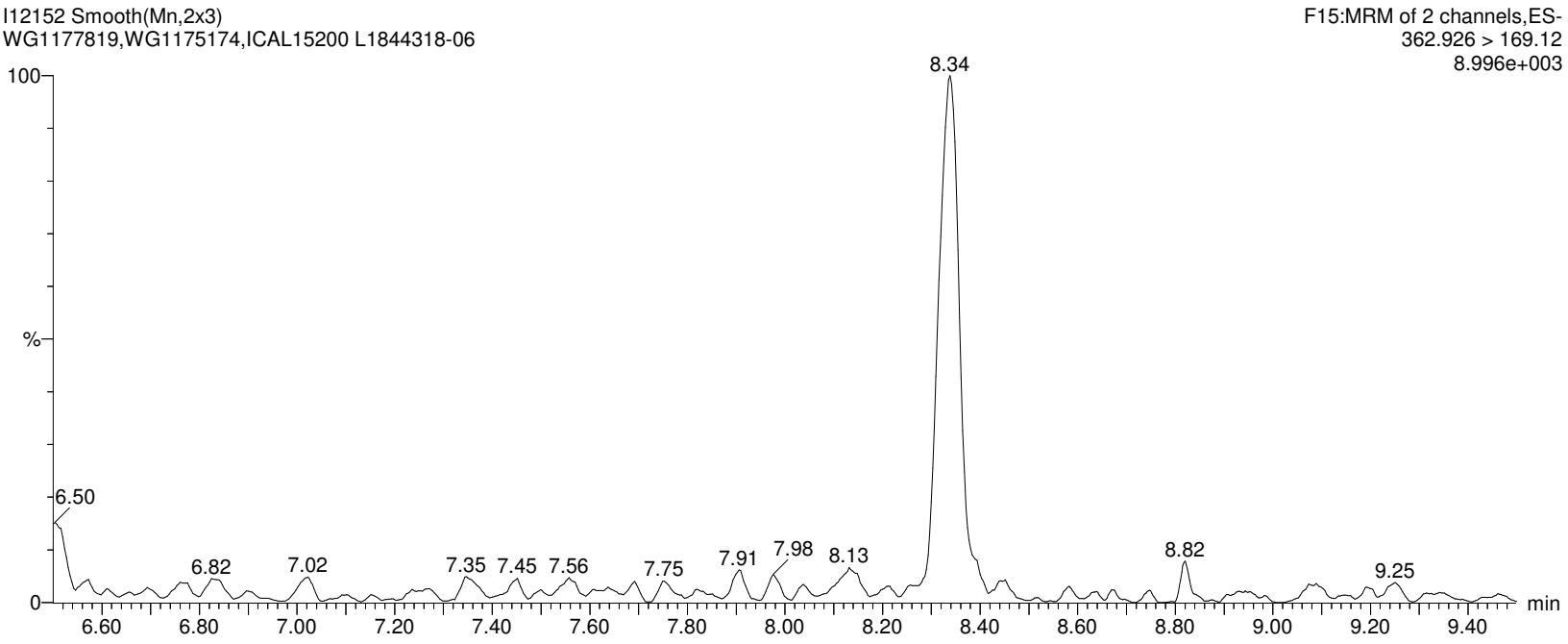

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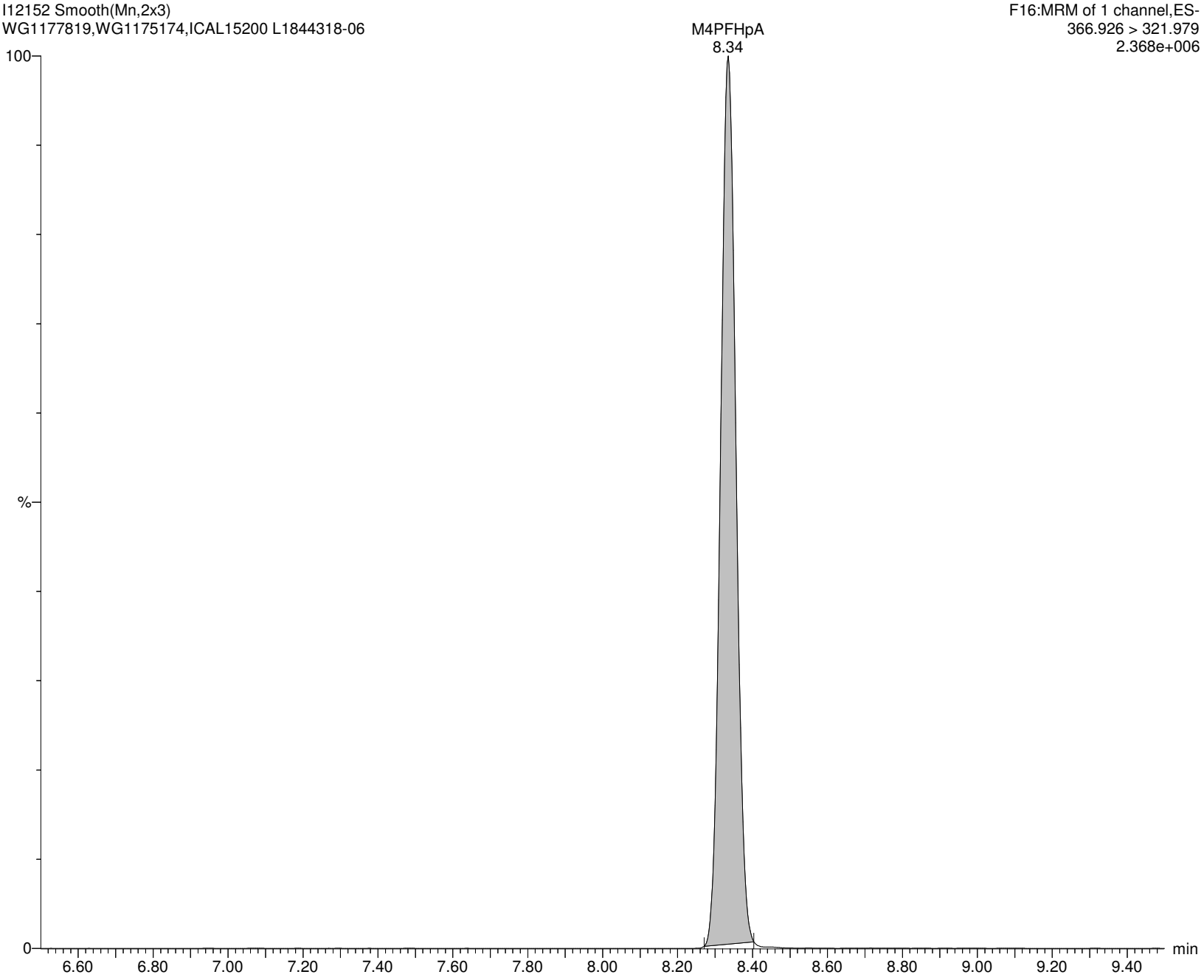

all concentration units in (ng/mL)

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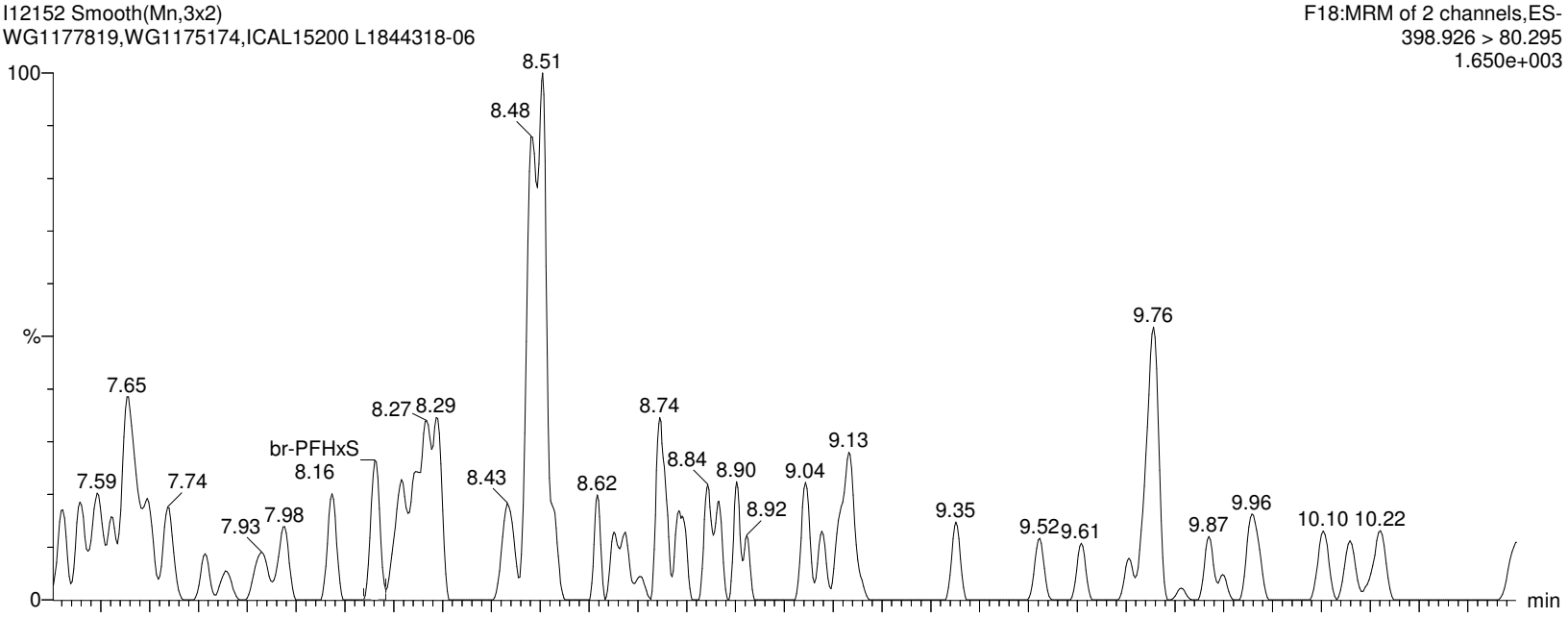

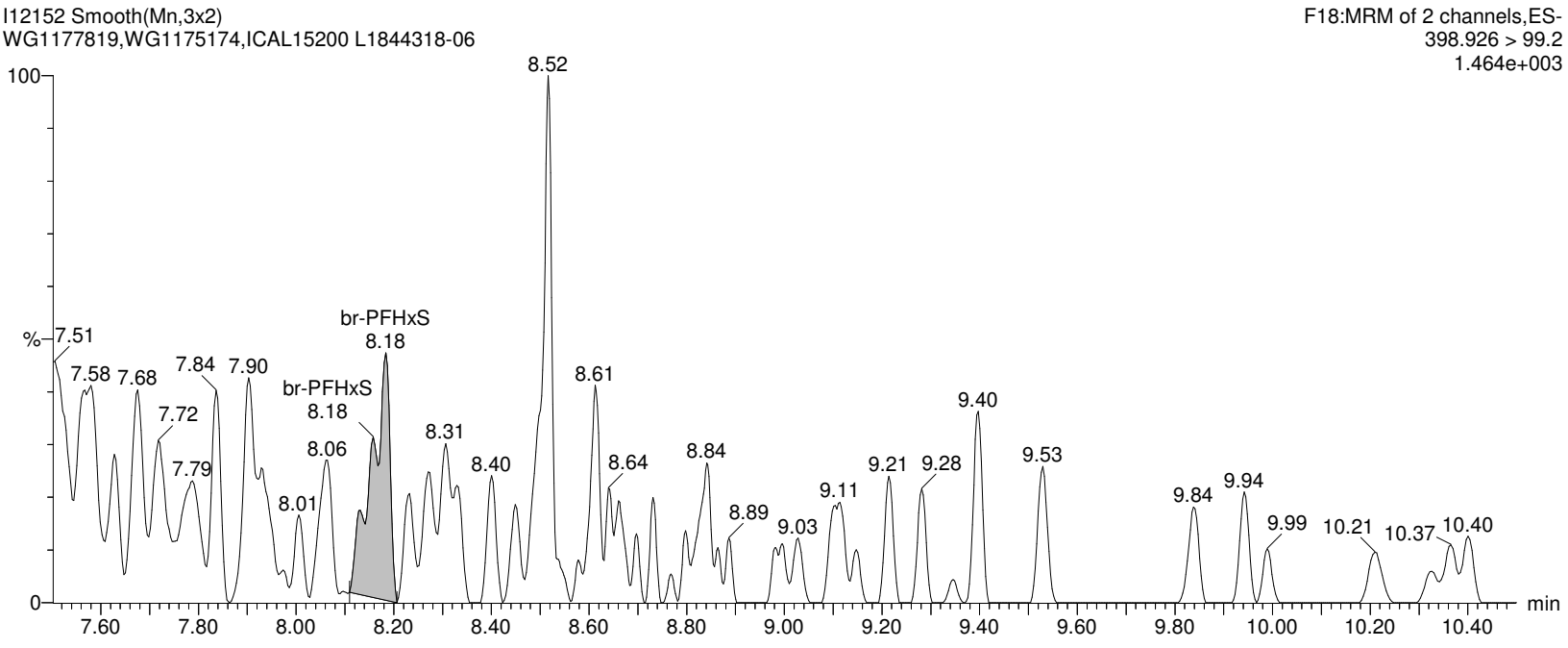

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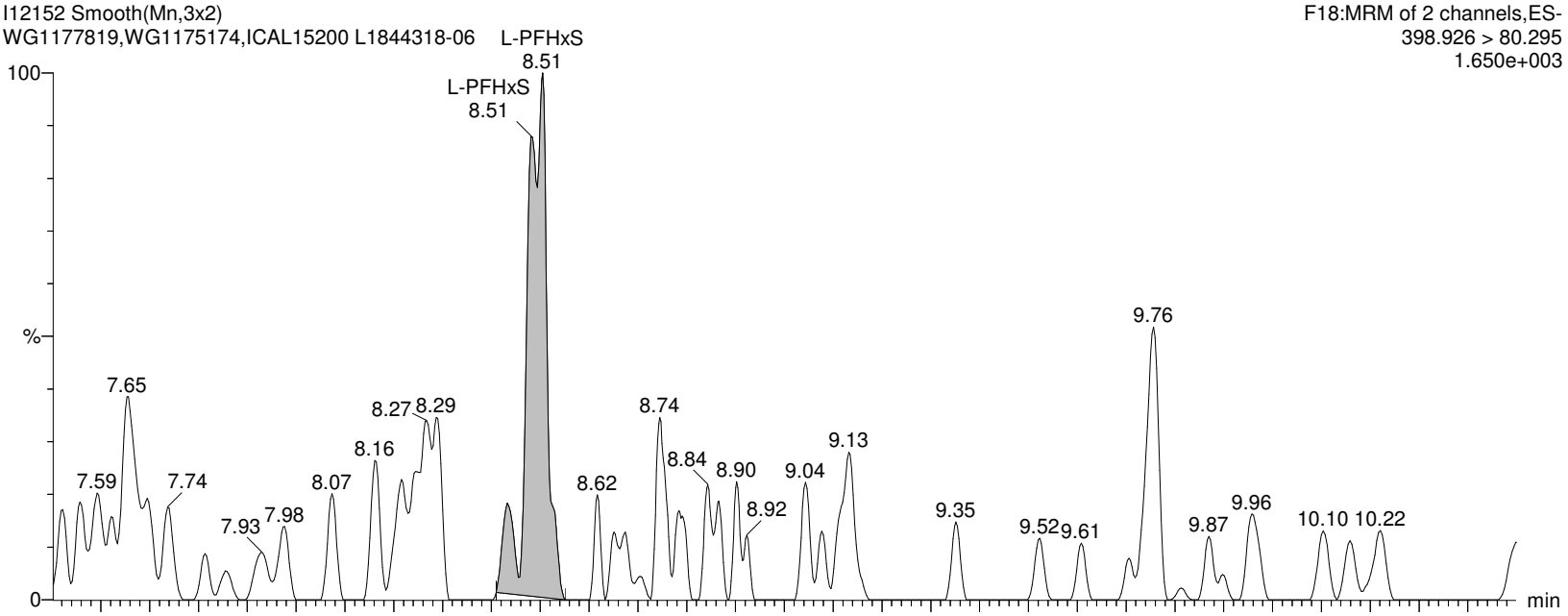

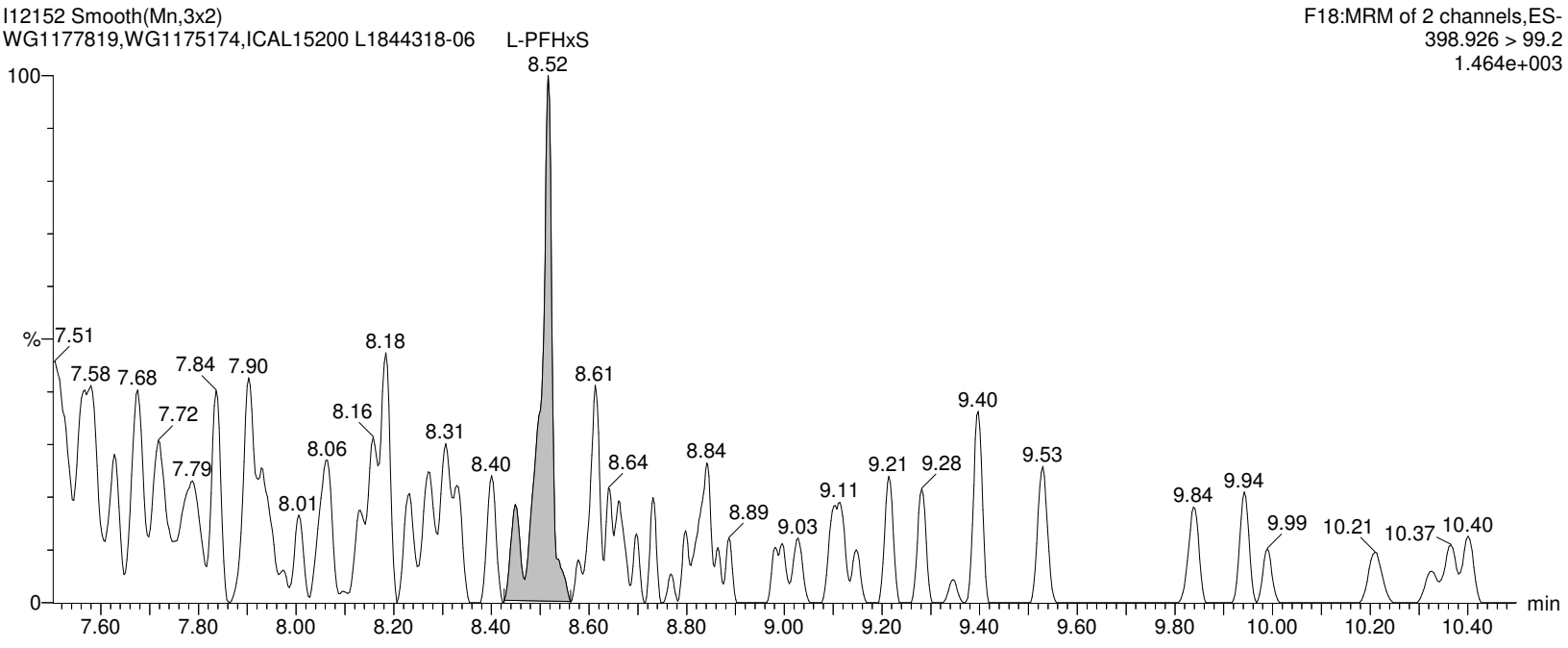

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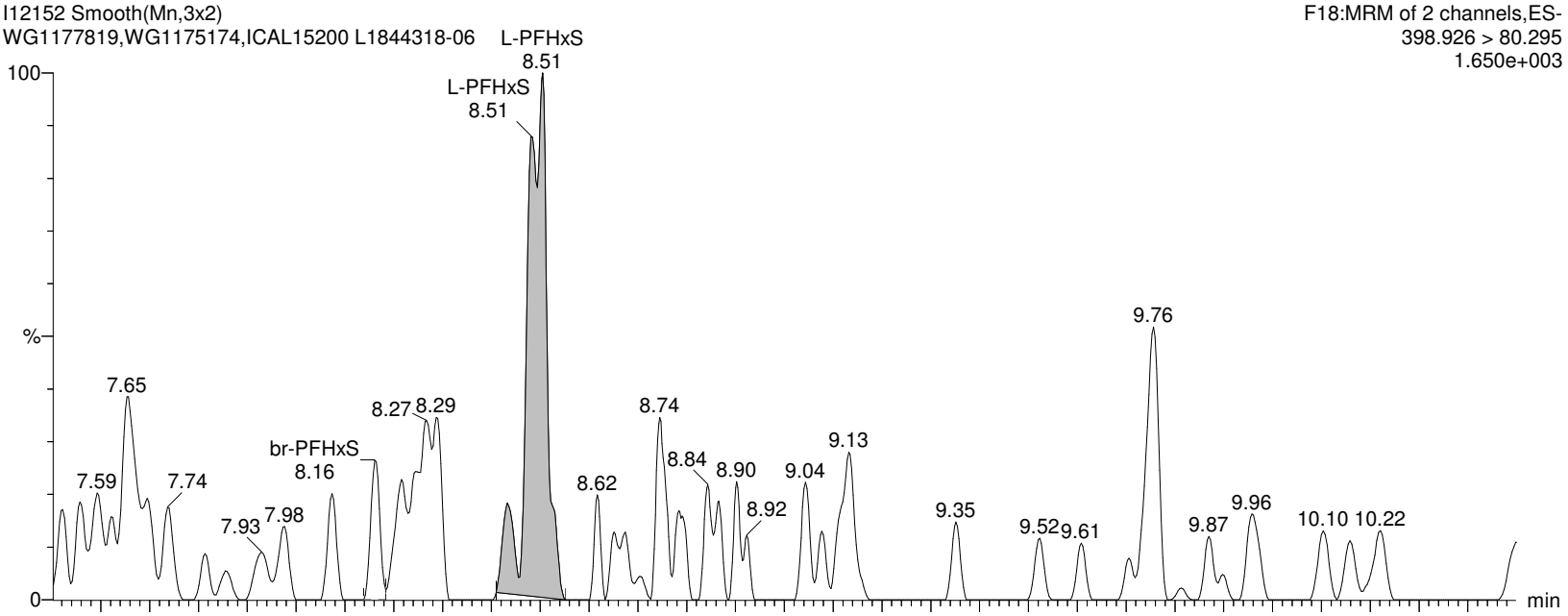

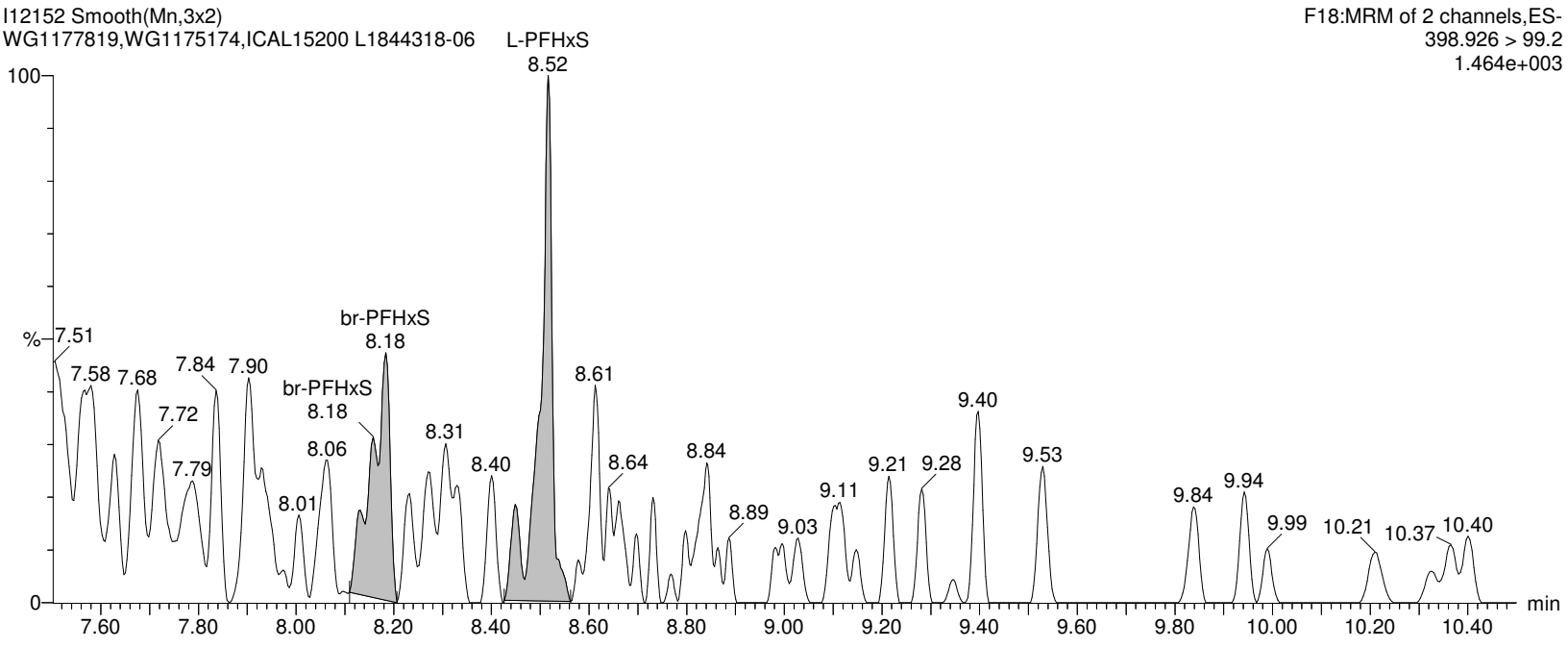

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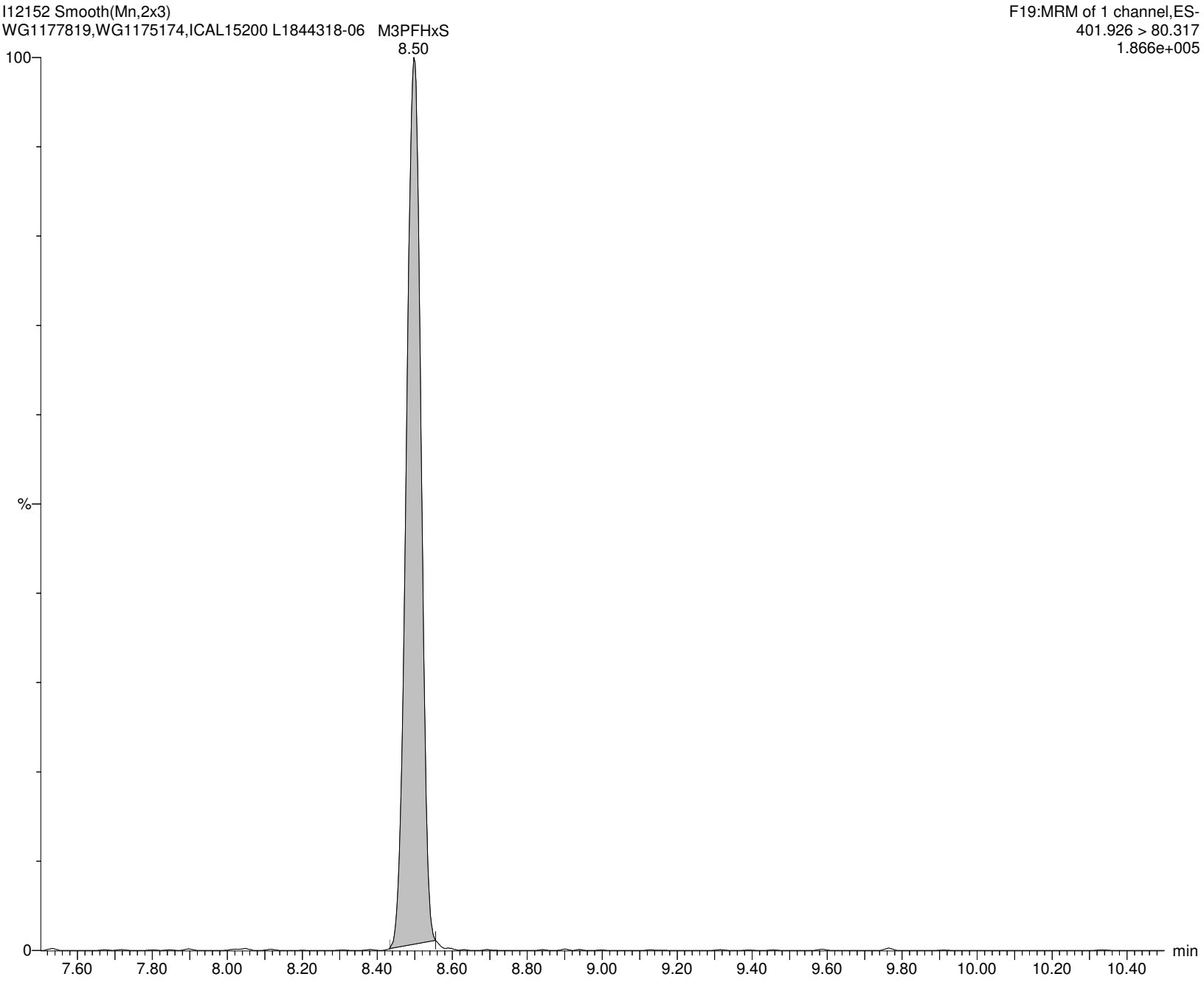

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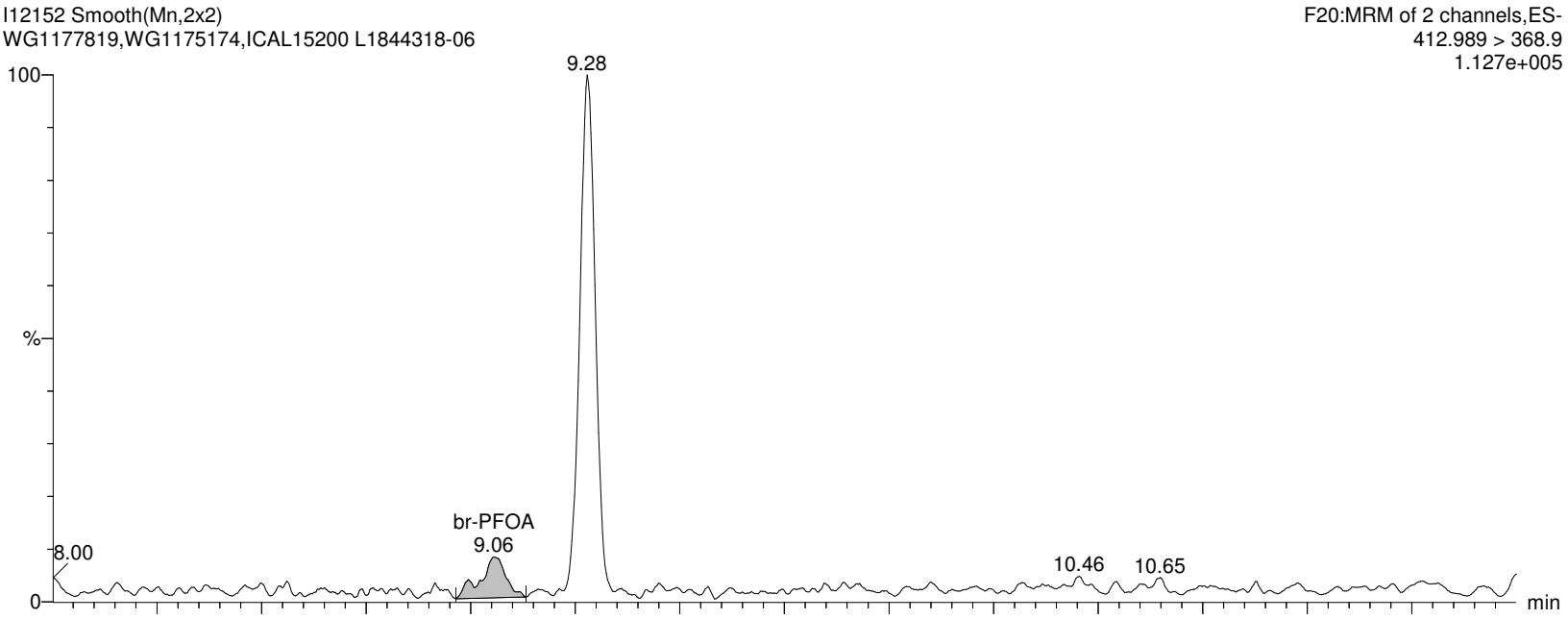

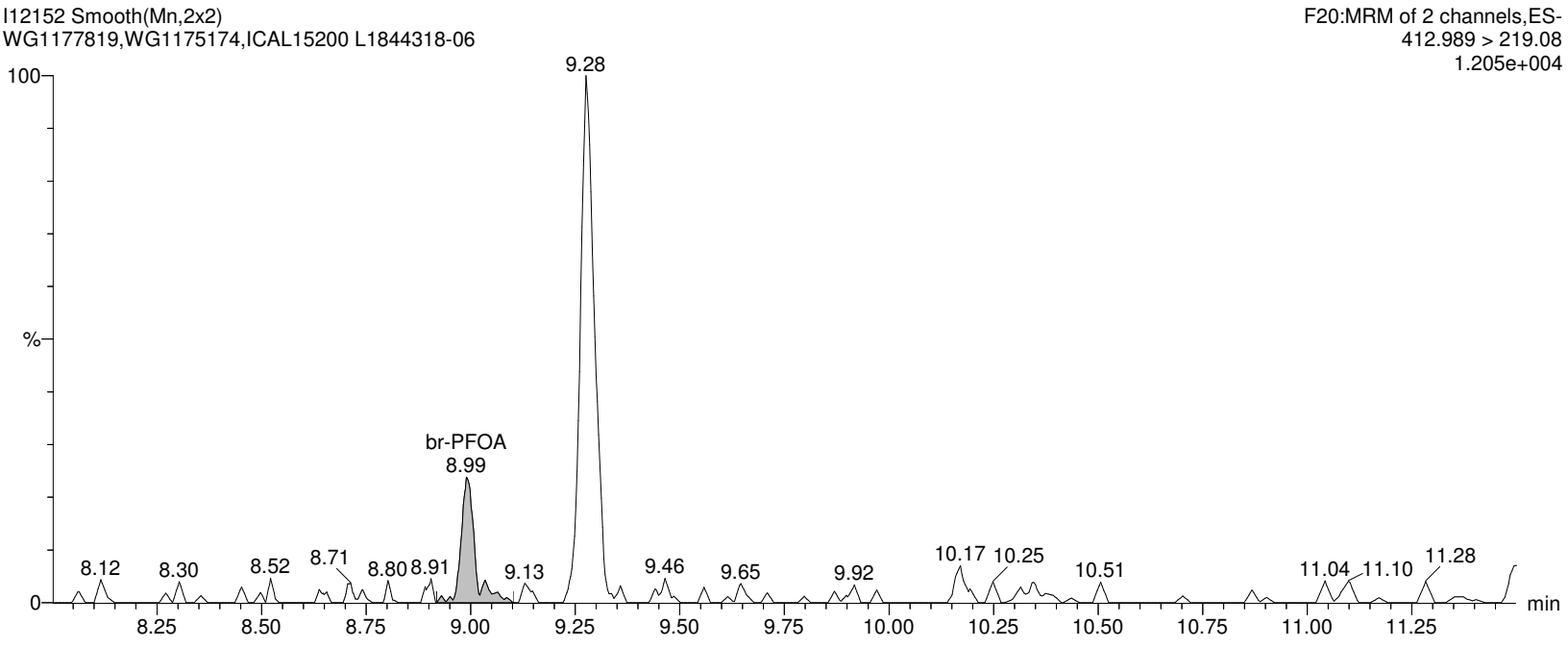

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:53 Eastern Standard Time

Name: I12152
ID: L1844318-06
Date: 10-Nov-2018
Time: 06:51:45
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,5
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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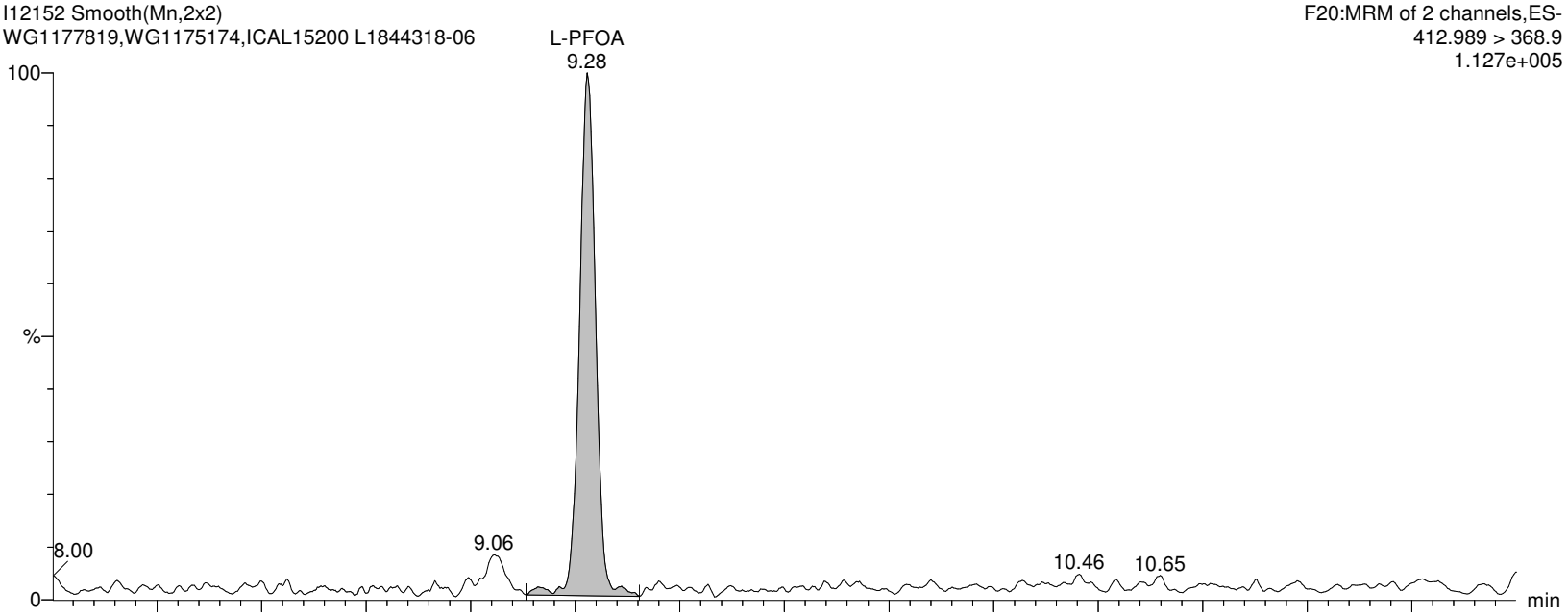

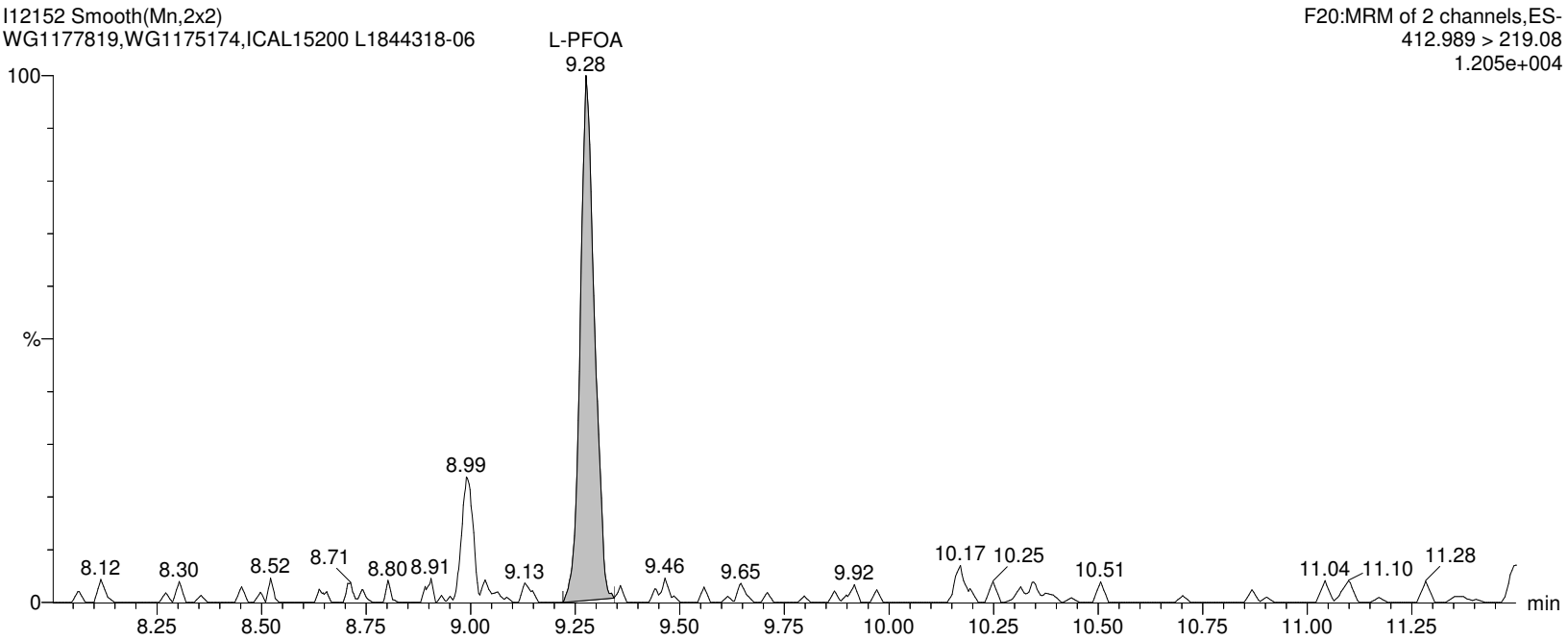

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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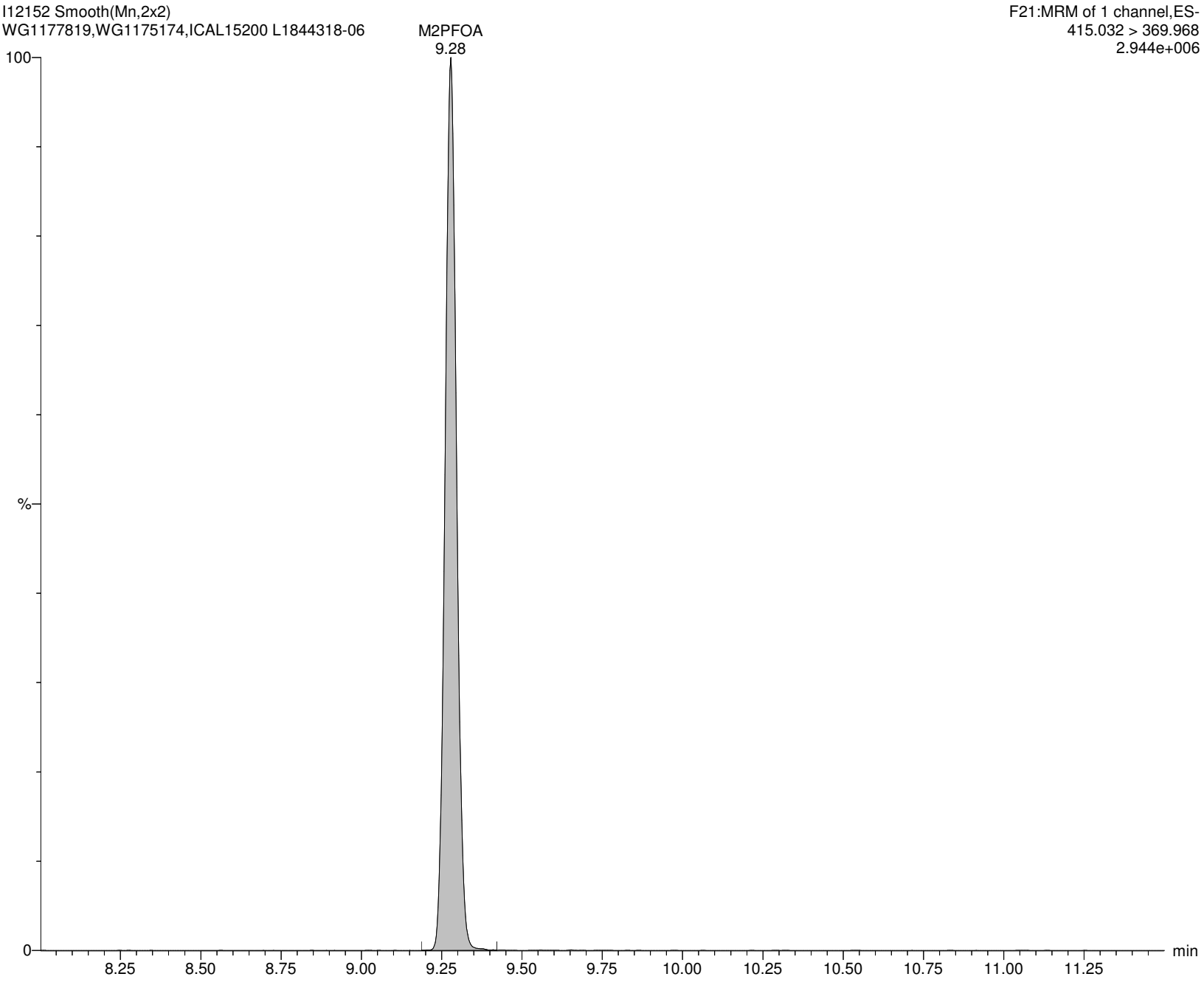

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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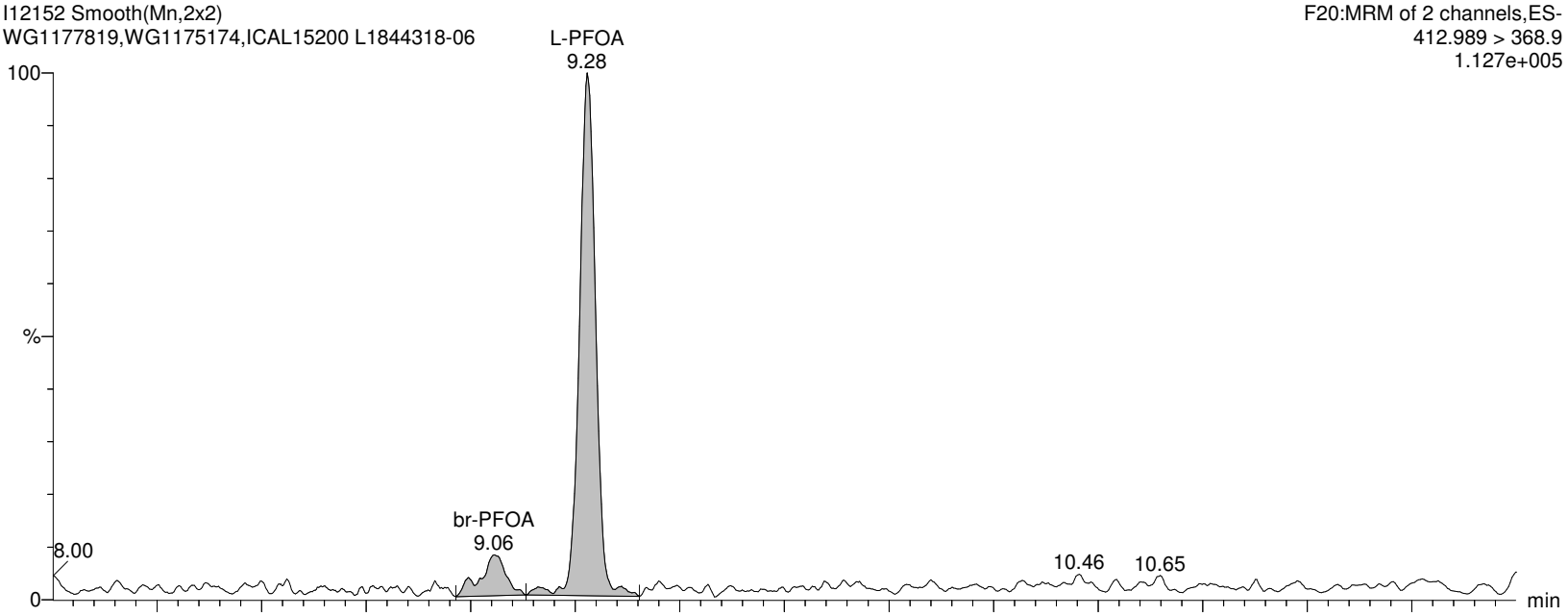

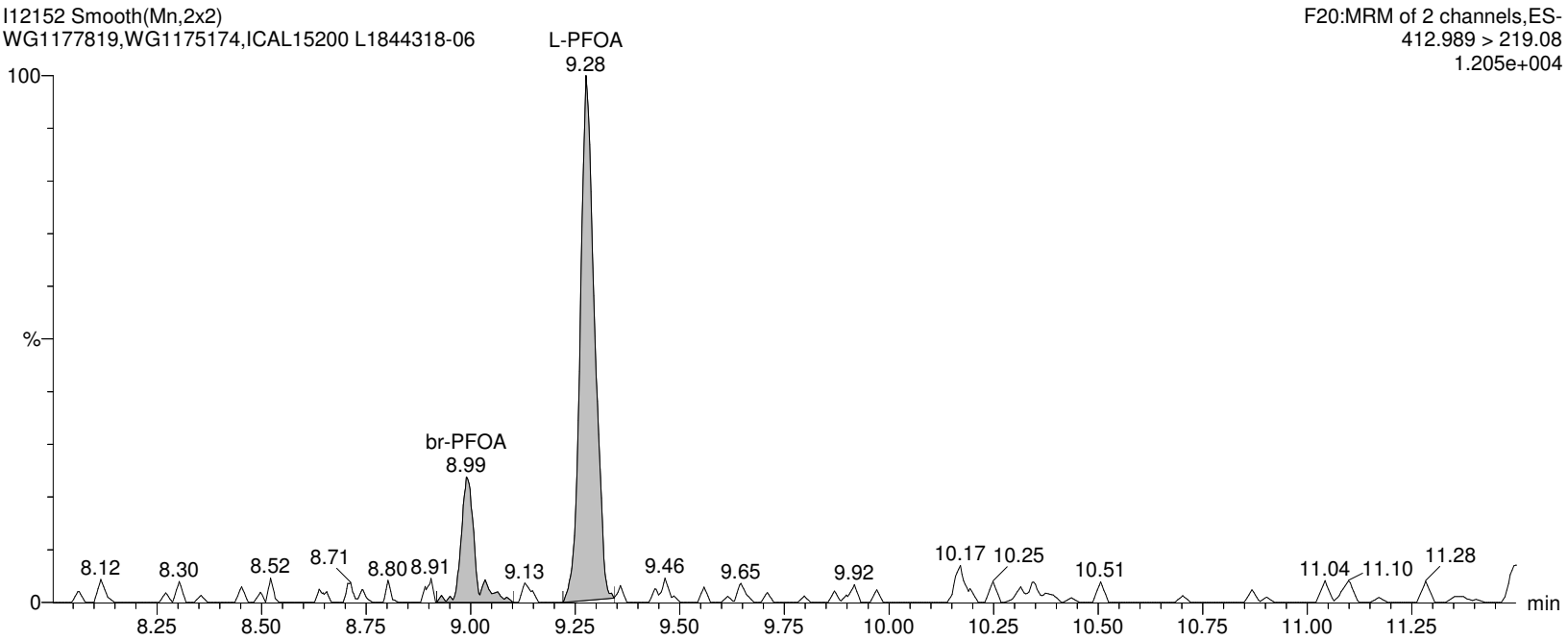

all concentration units in (ng/mL)

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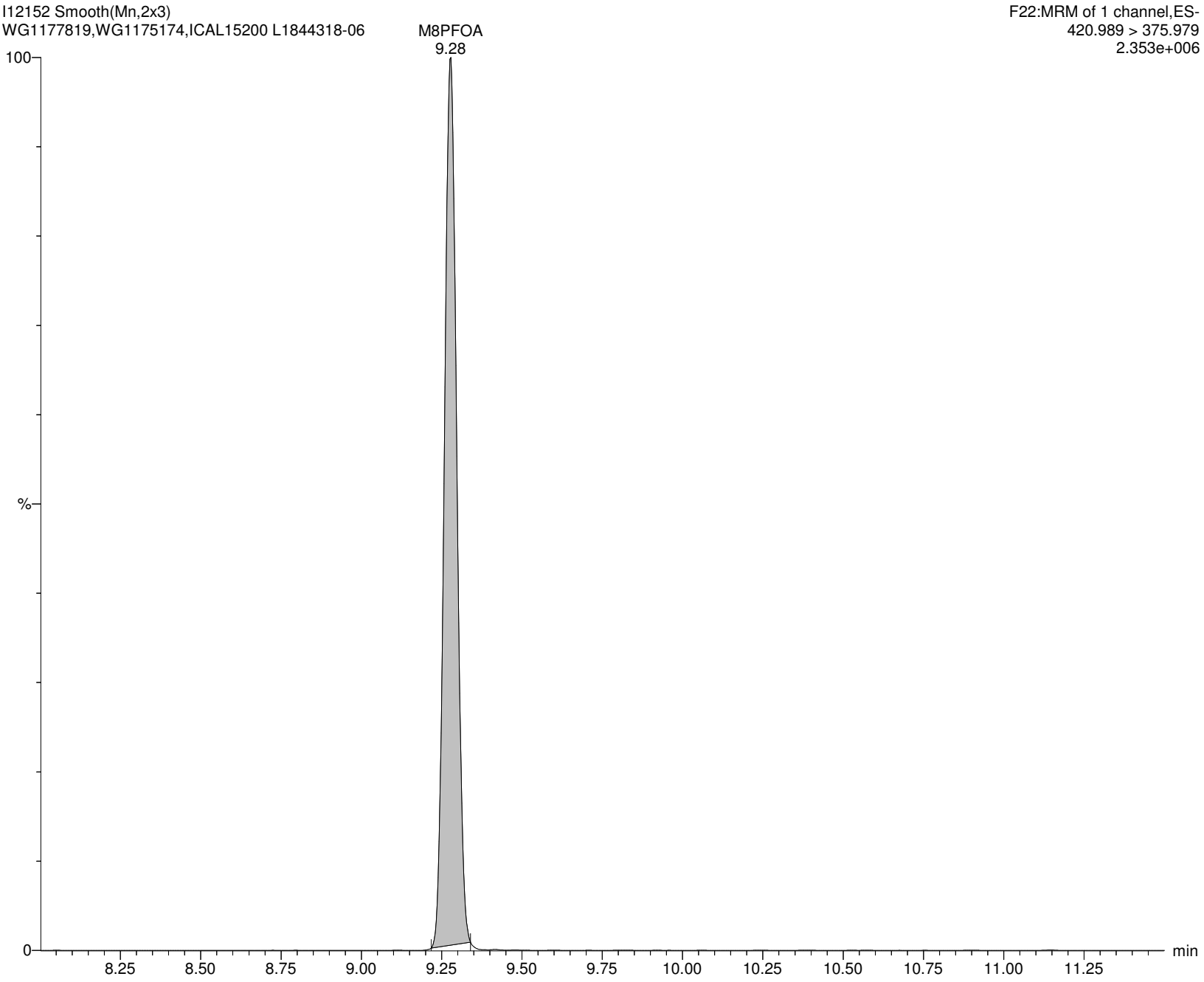

all concentration units in (ng/mL)

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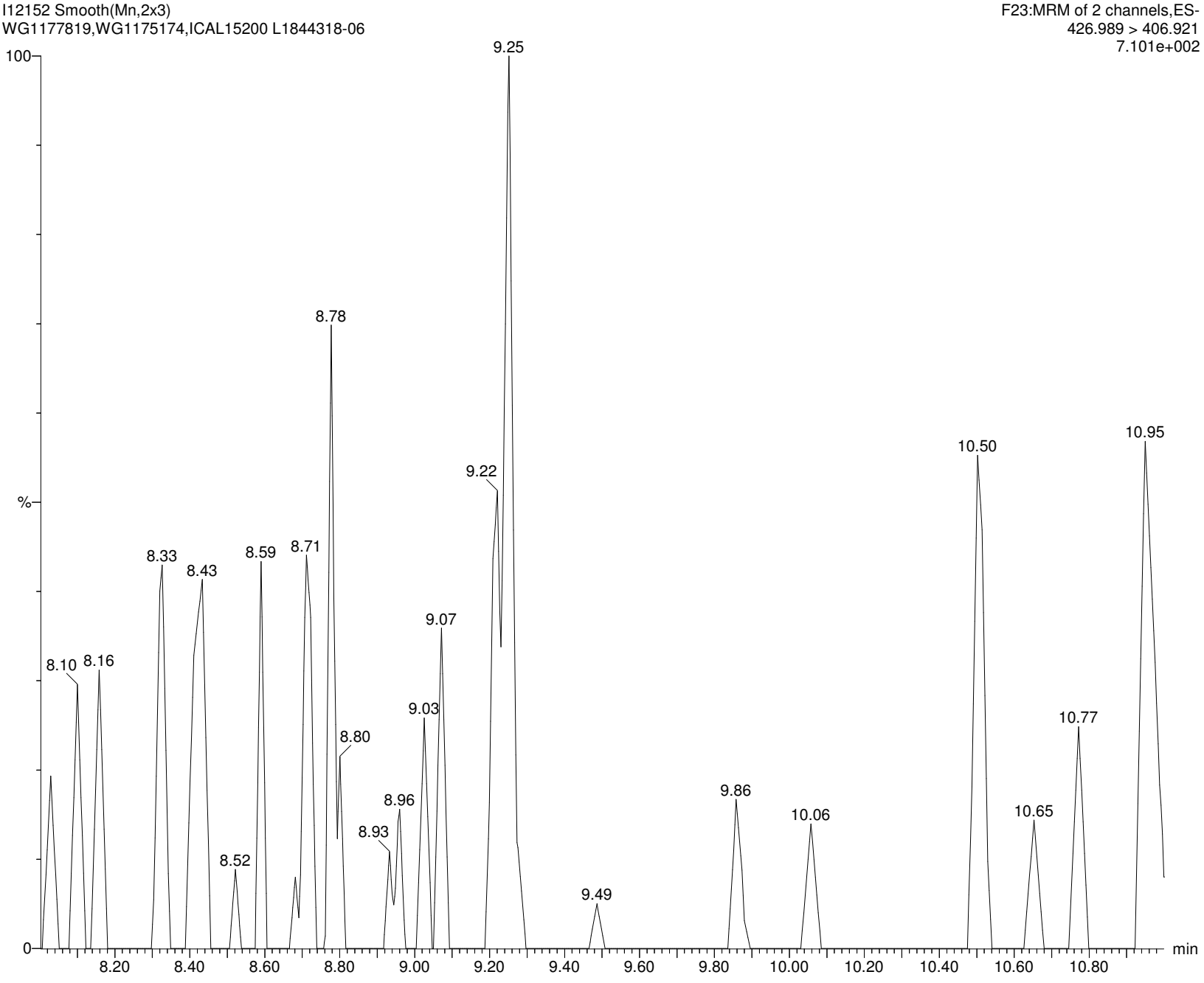

all concentration units in (ng/mL)

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User: LCMS01:AJ
Vial: 1:C,5
Instrument: XEVO-TQSmicro#QEA0276
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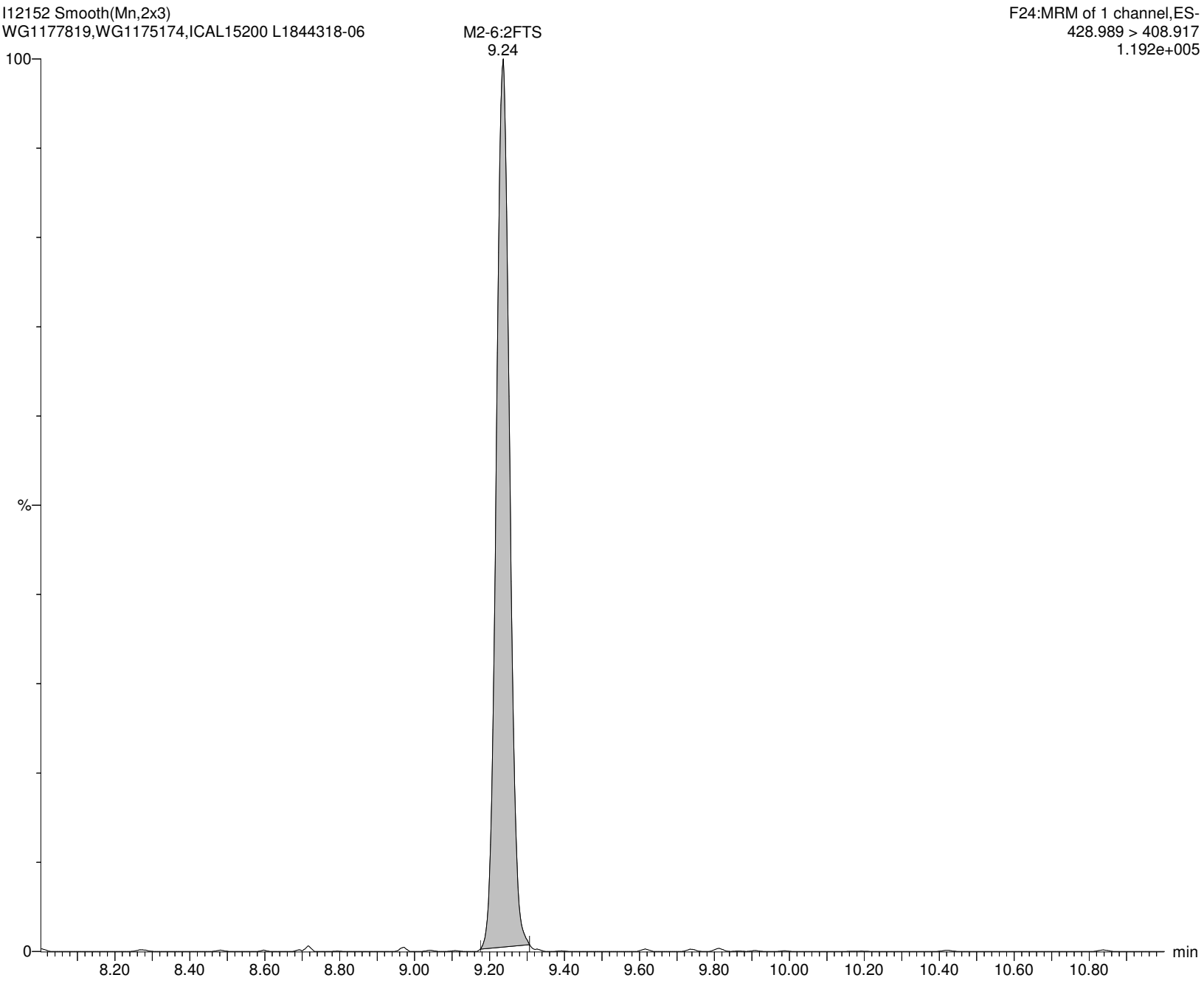

all concentration units in (ng/mL)

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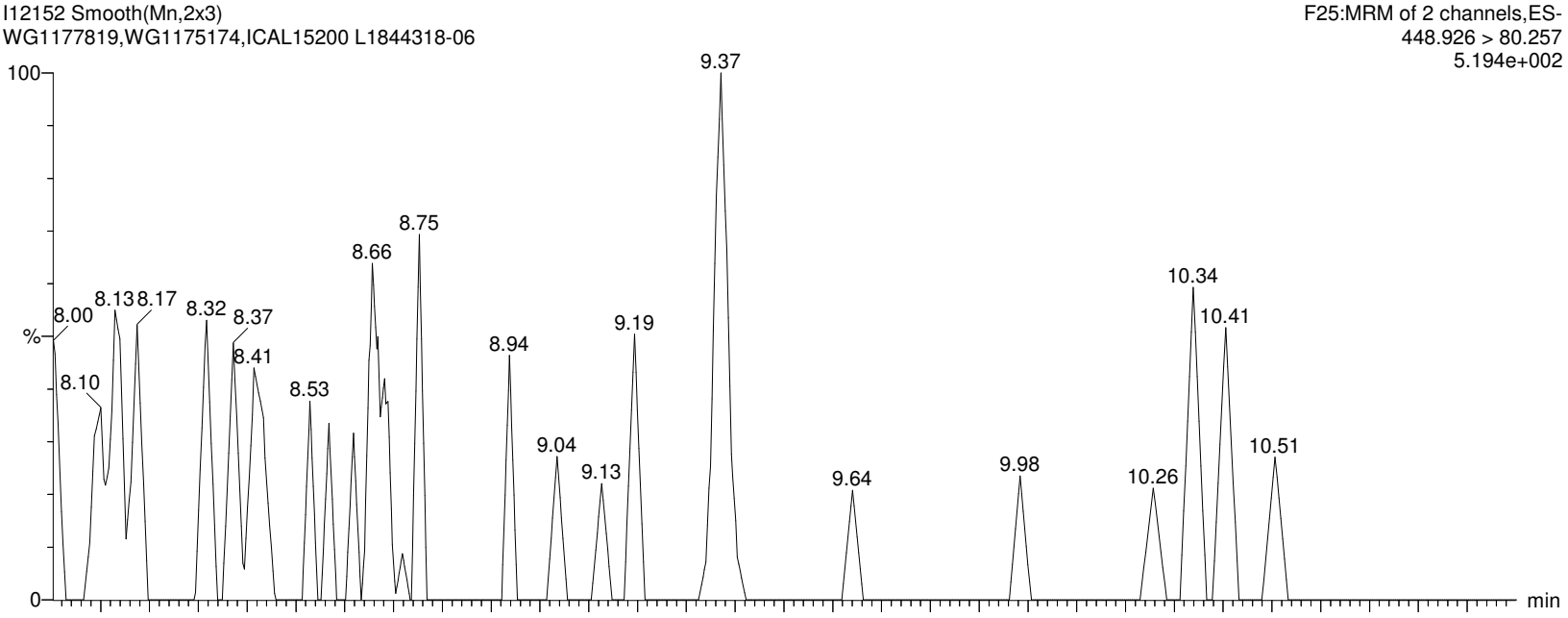

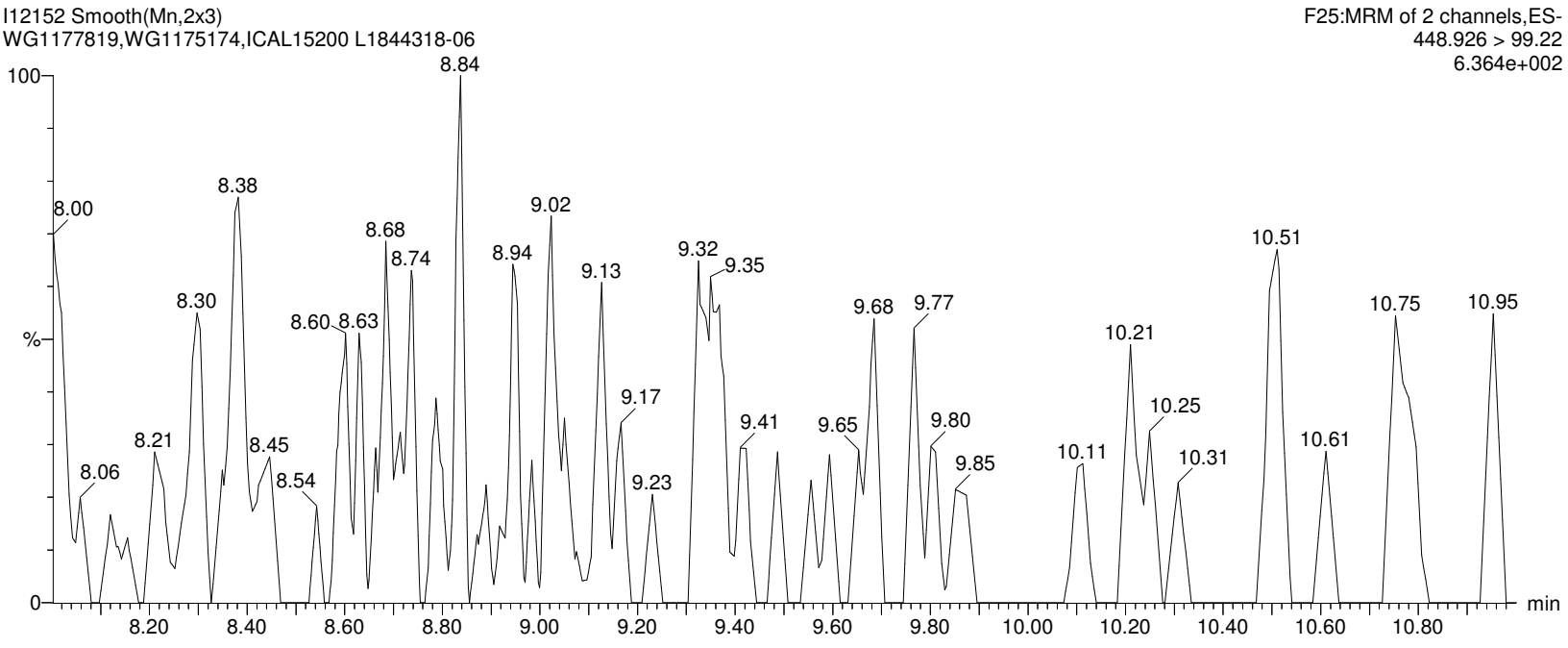

all concentration units in (ng/mL)

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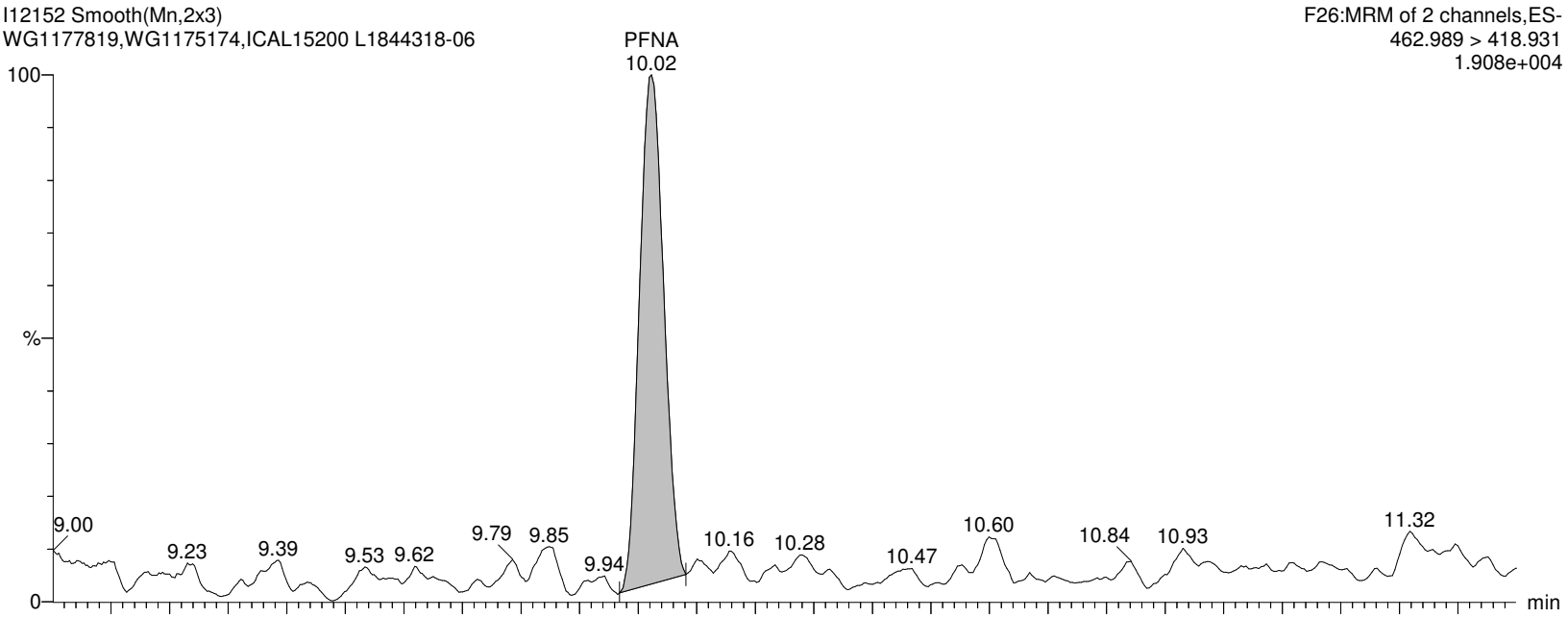

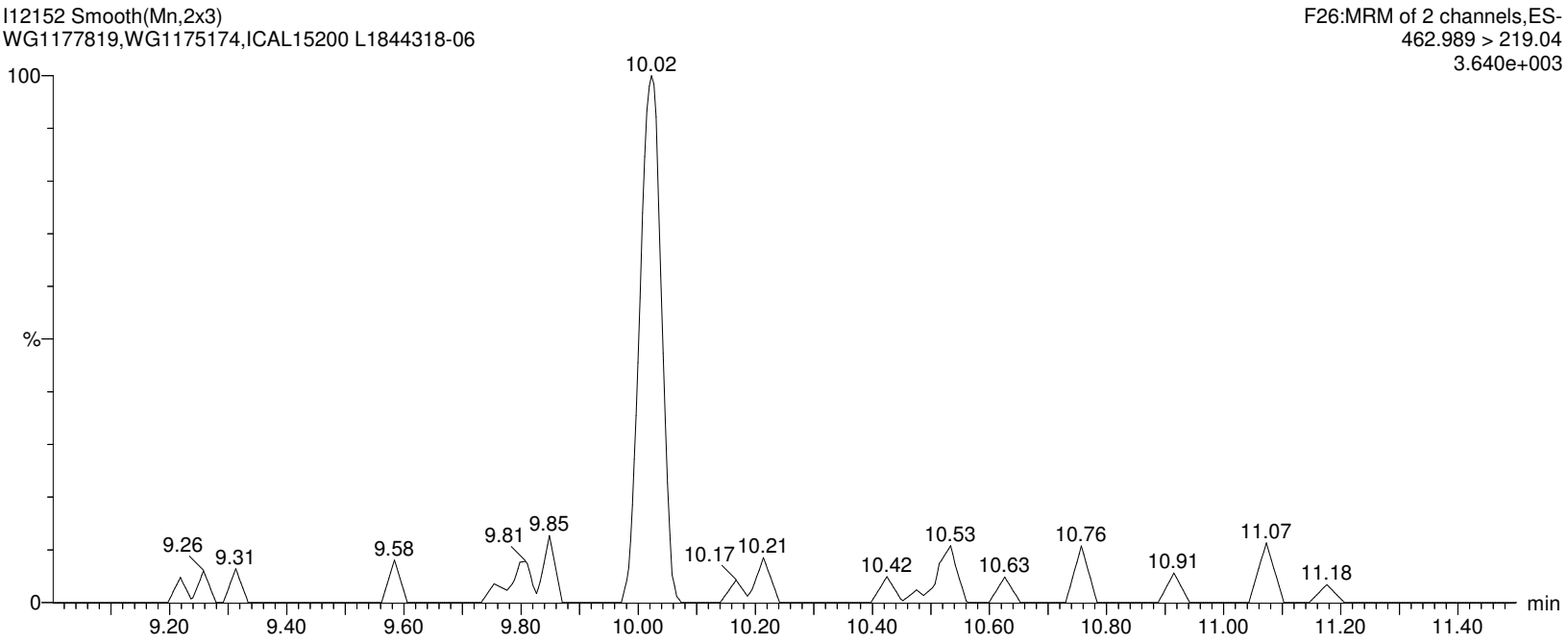

all concentration units in (ng/mL)

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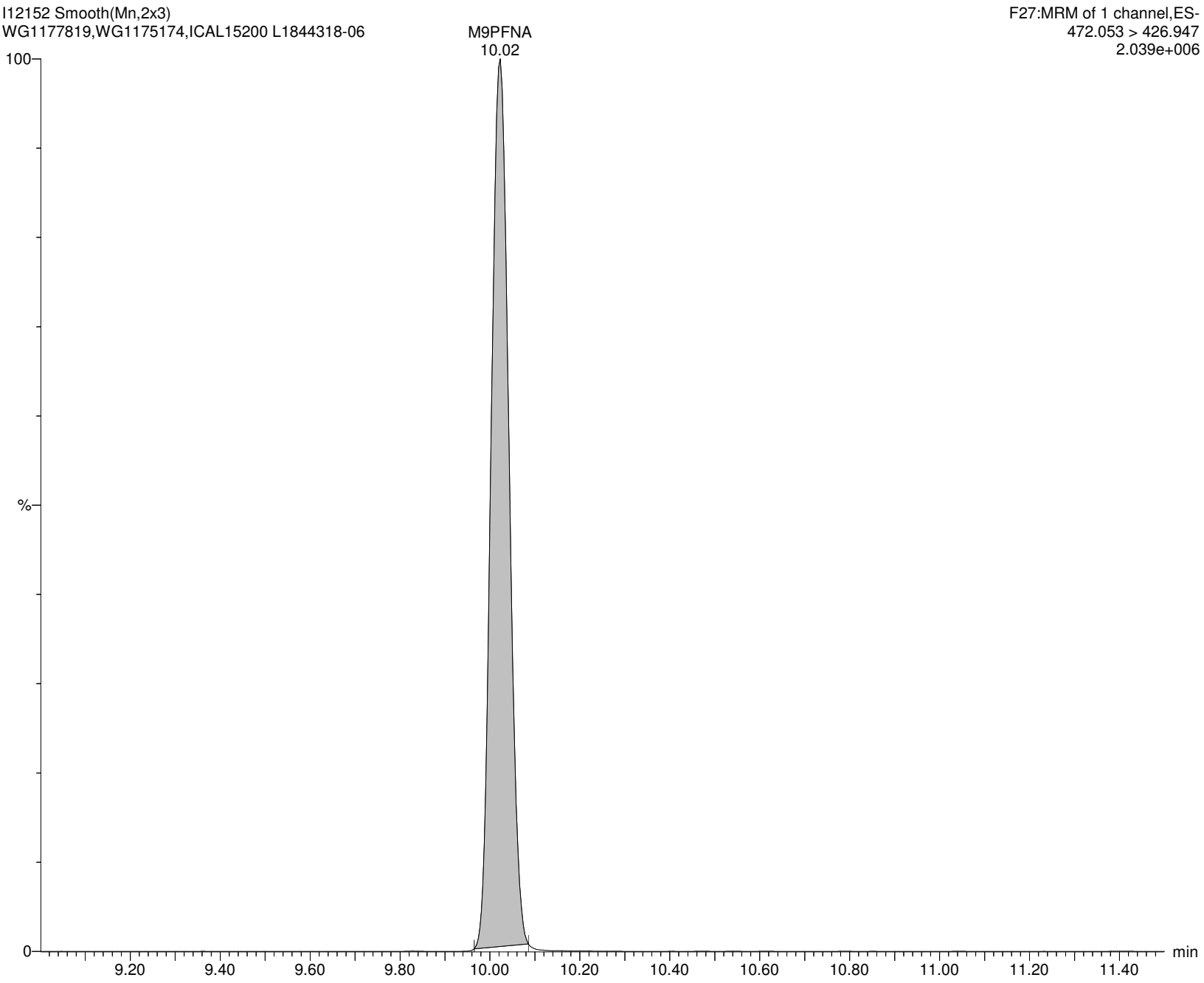

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Vial: 1:C,5
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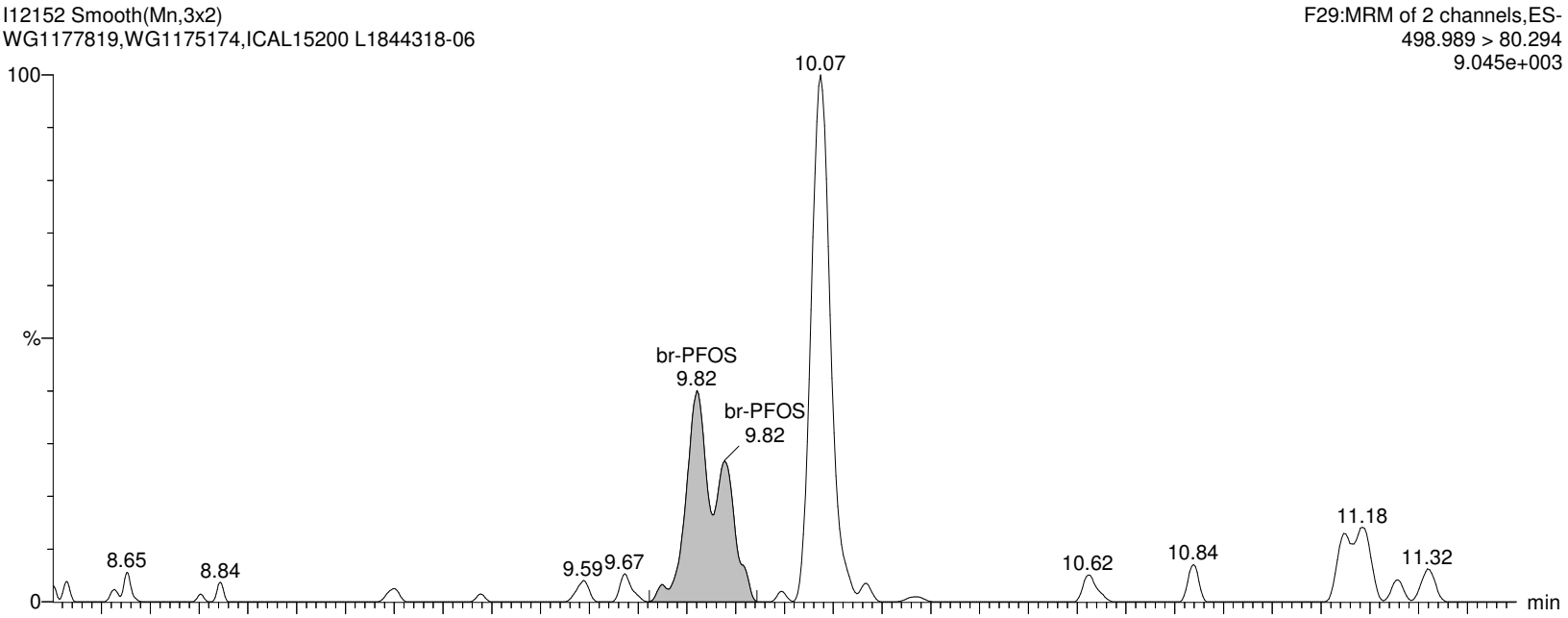

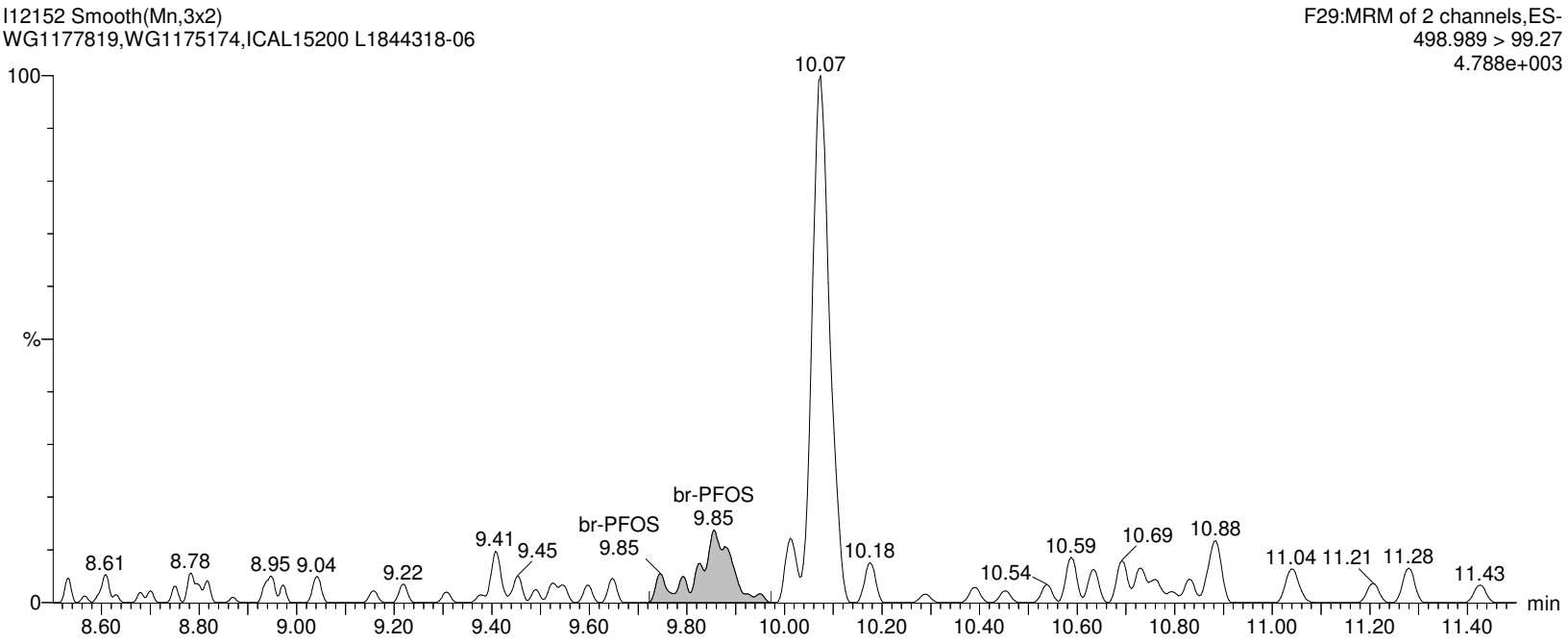

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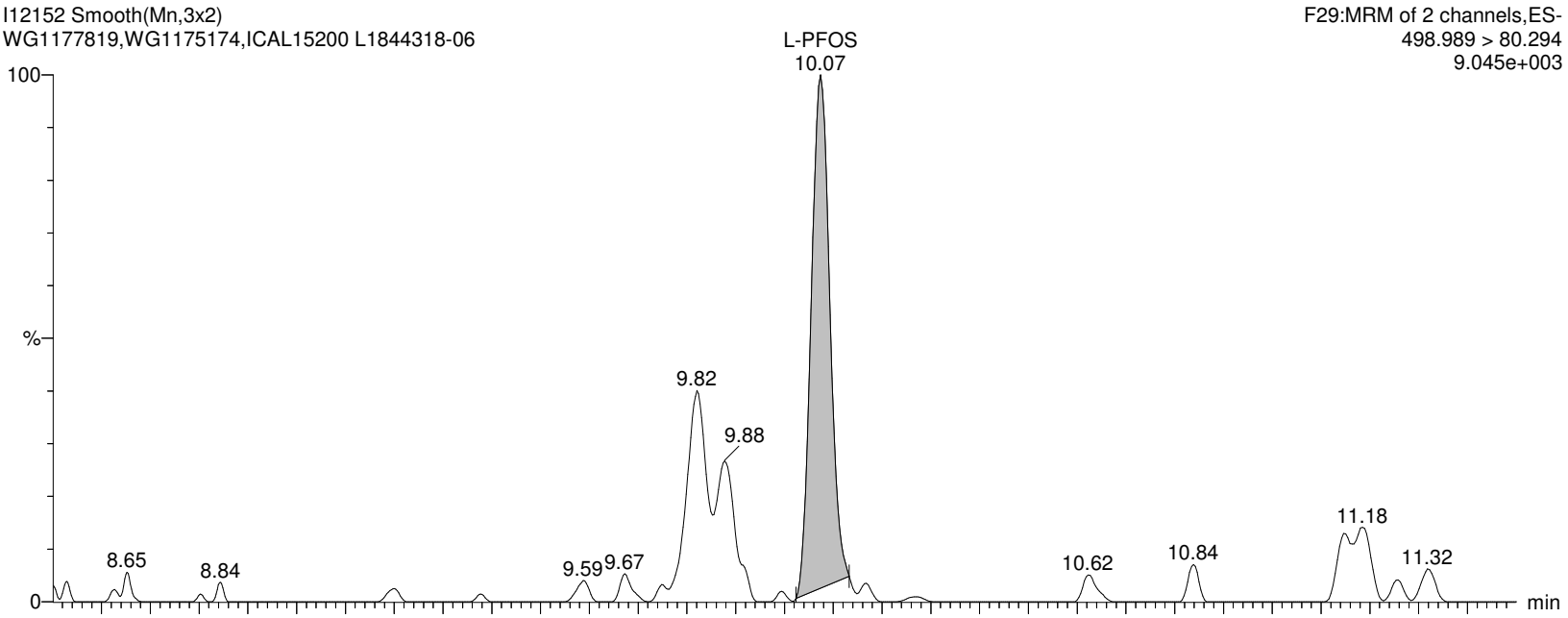

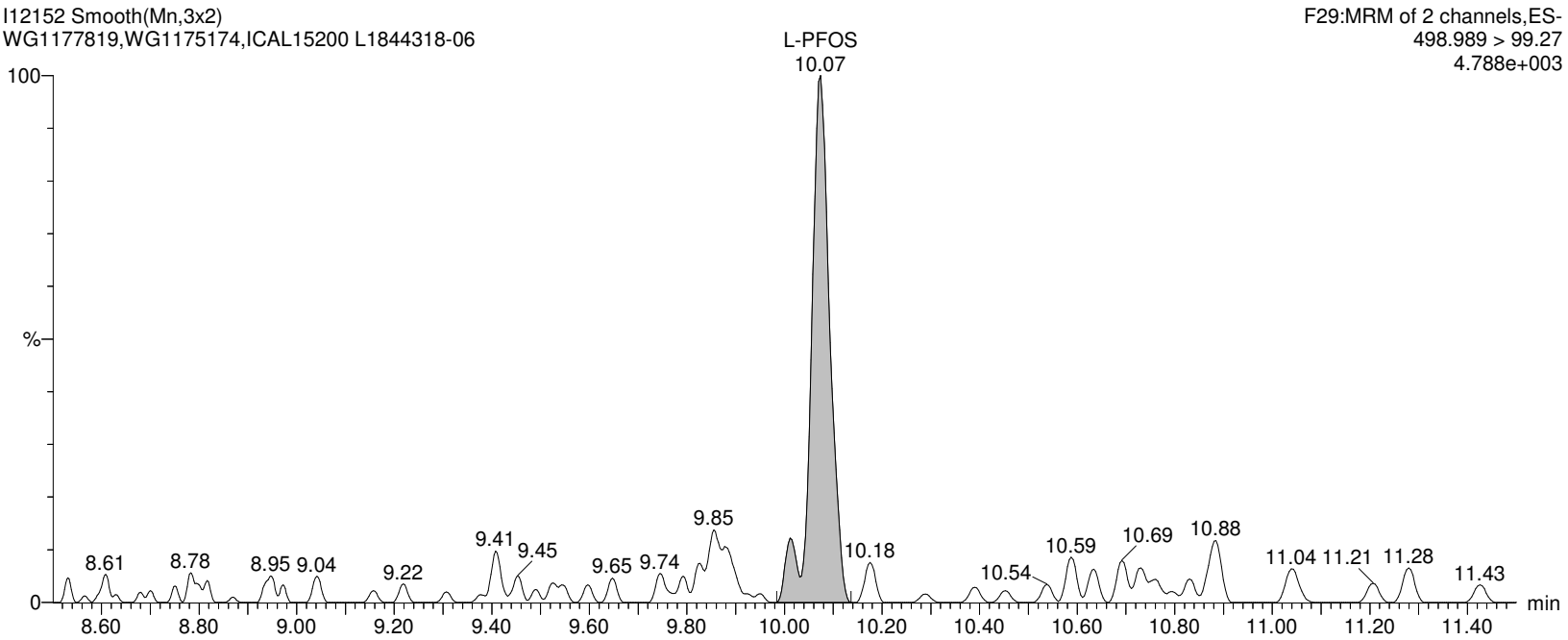

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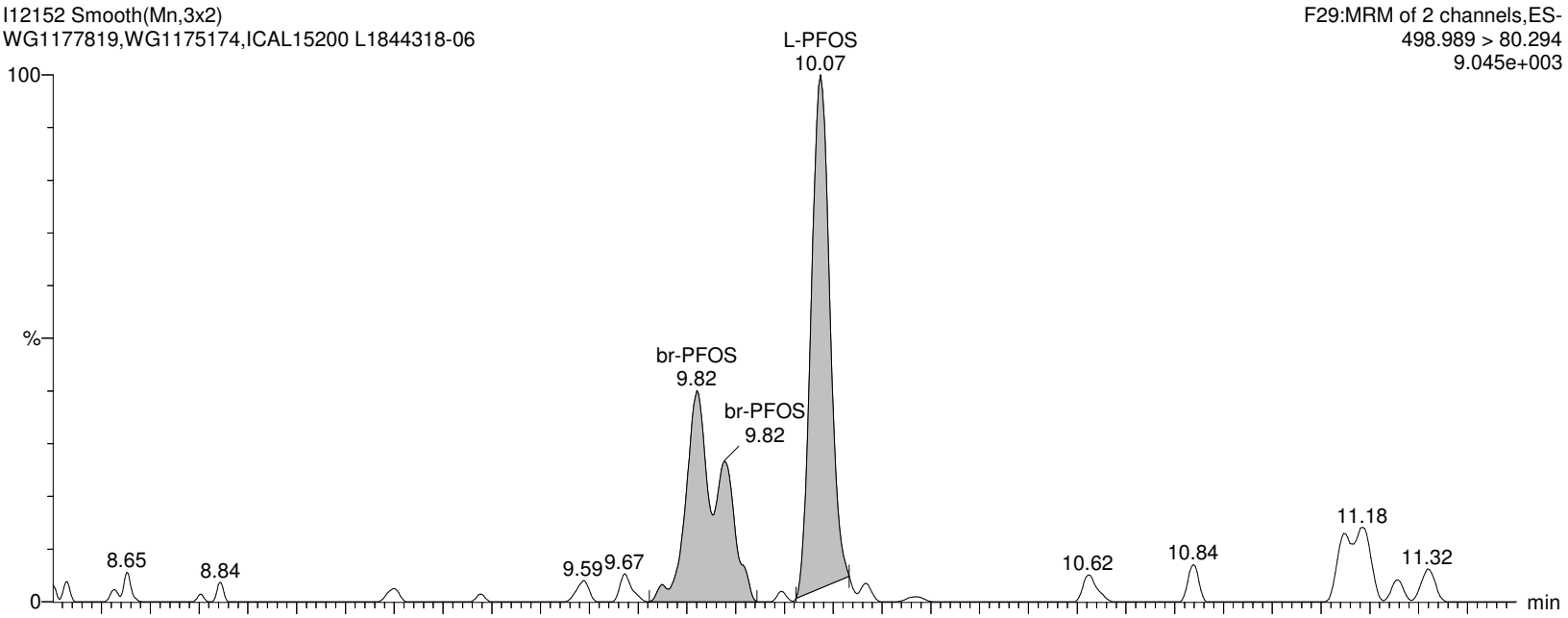

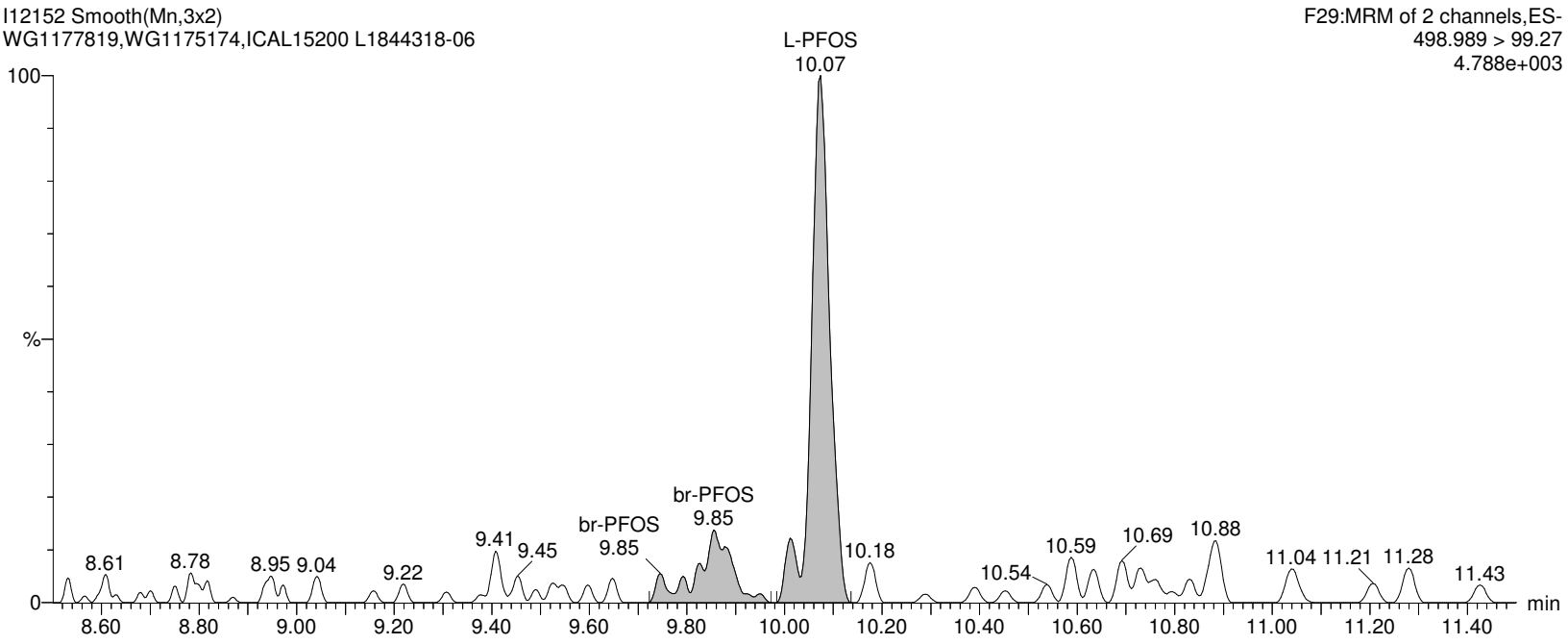

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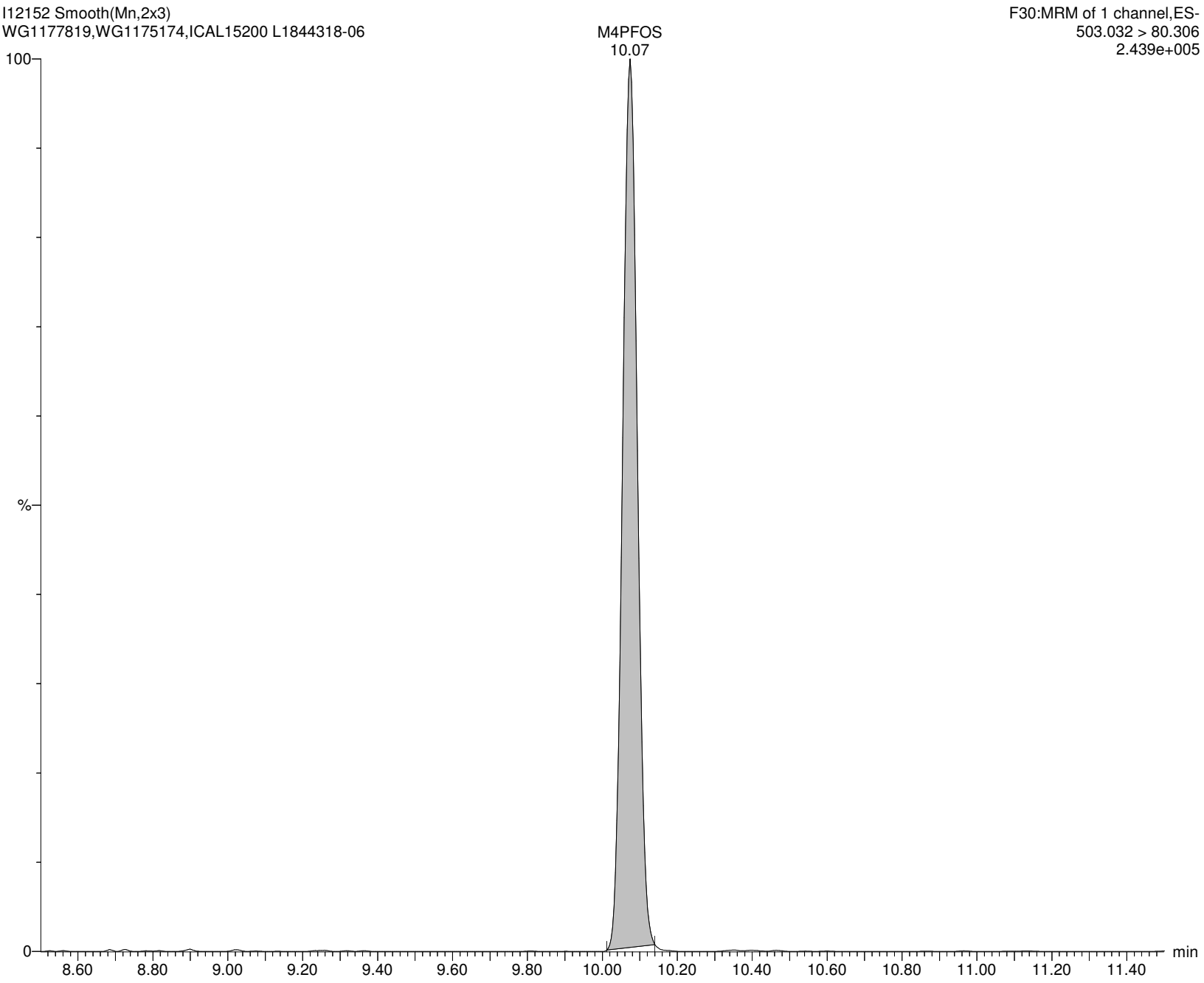

all concentration units in (ng/mL)

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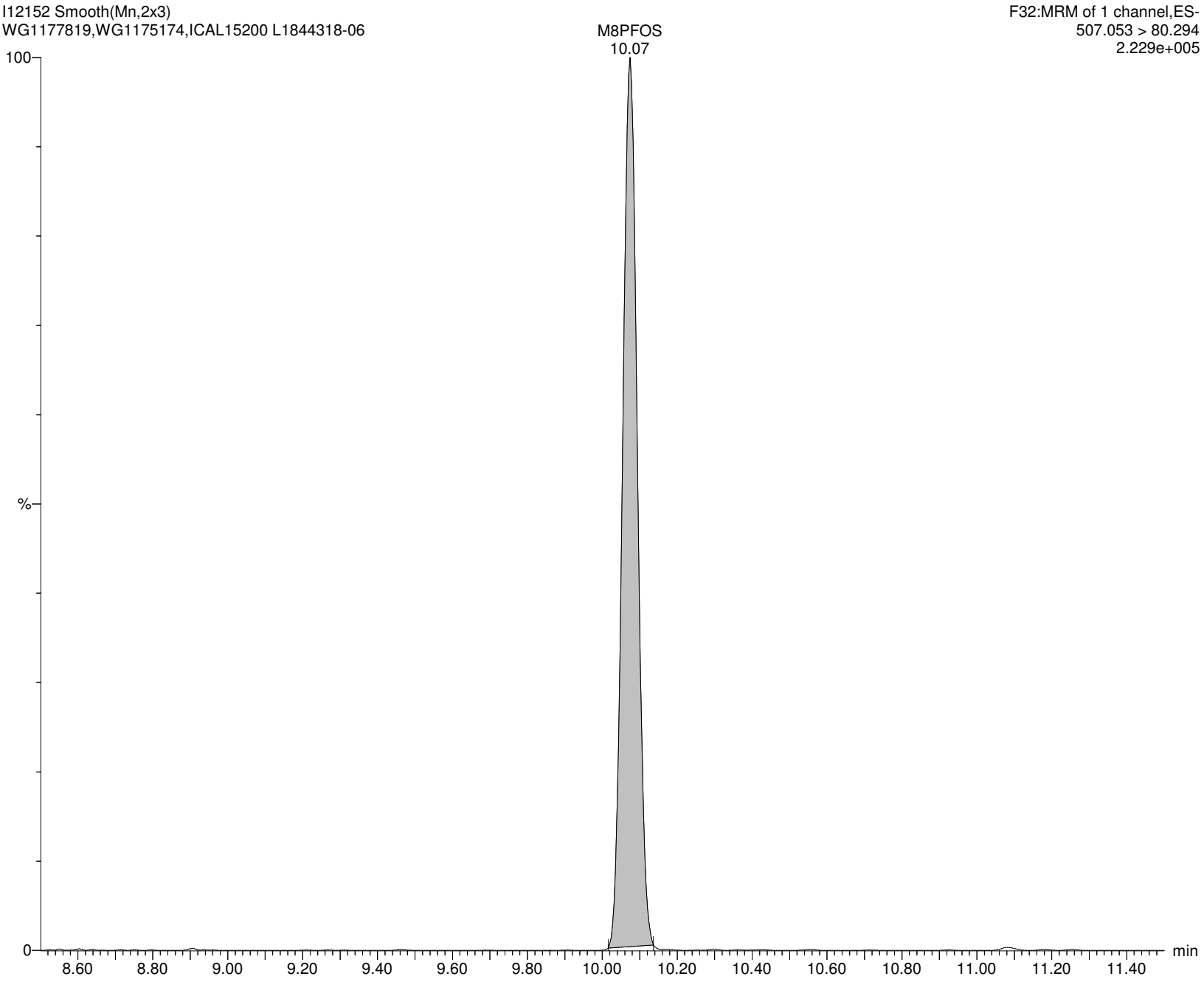

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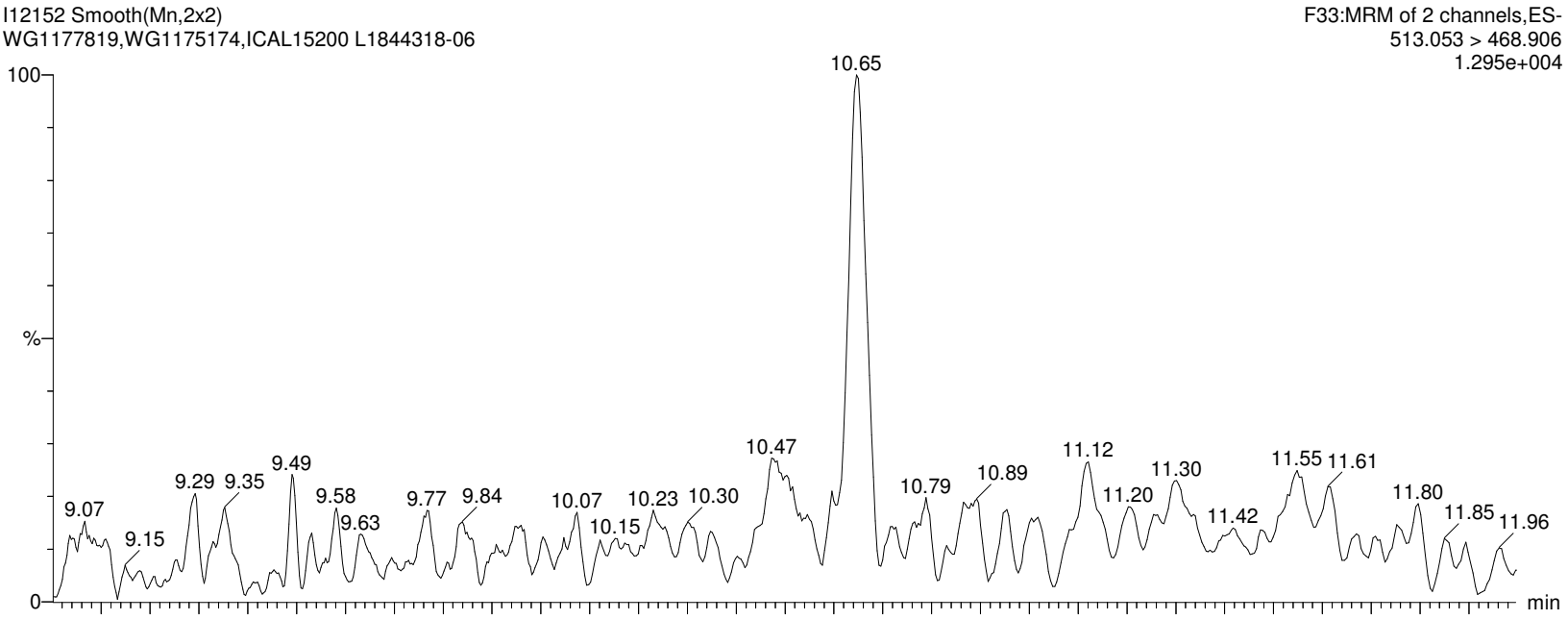

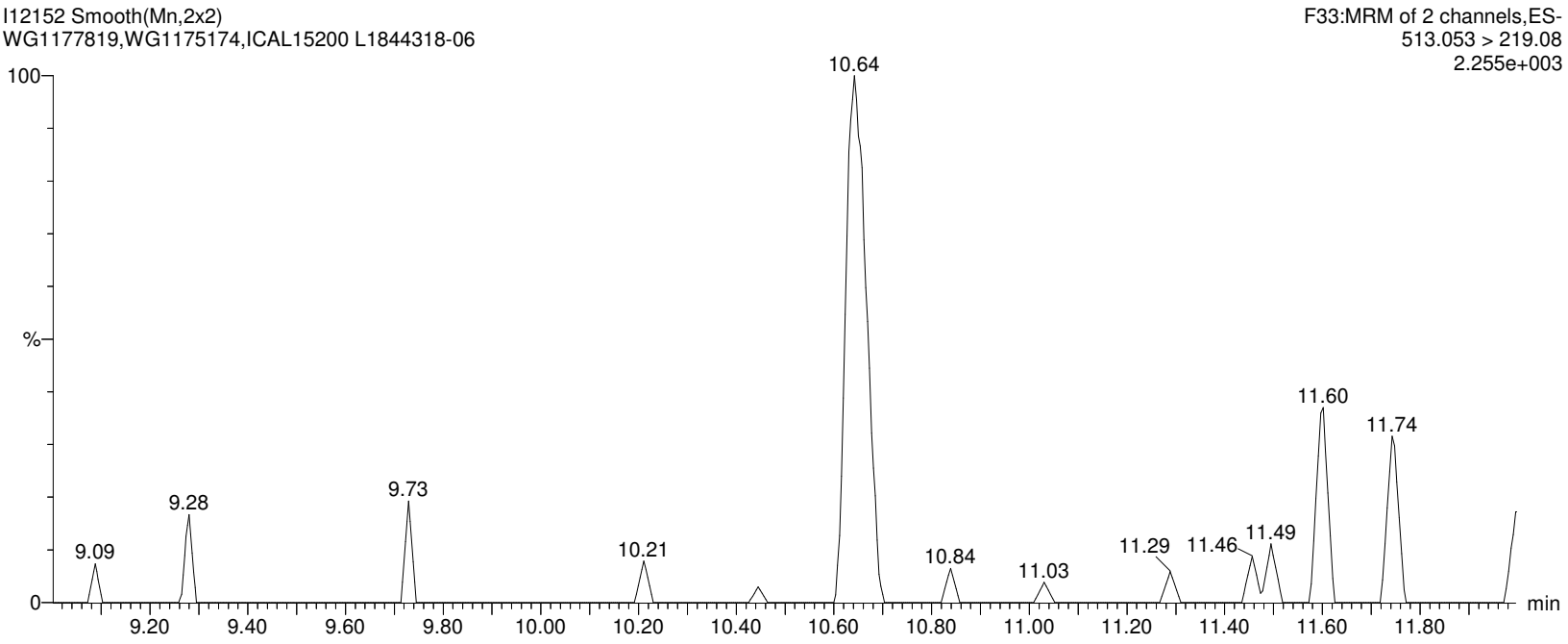

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:53 Eastern Standard Time

Name: I12152
ID: L1844318-06
Date: 10-Nov-2018
Time: 06:51:45
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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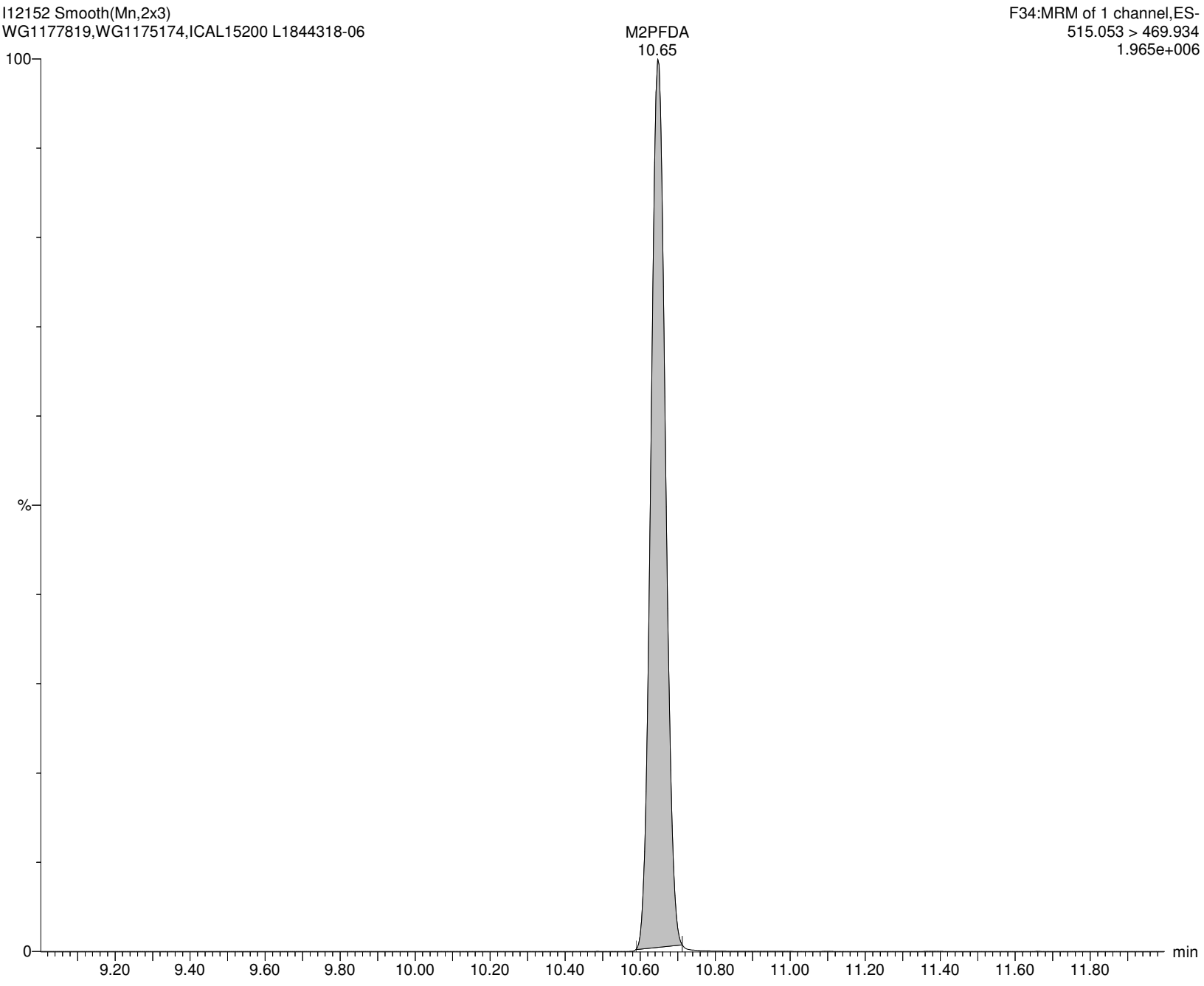

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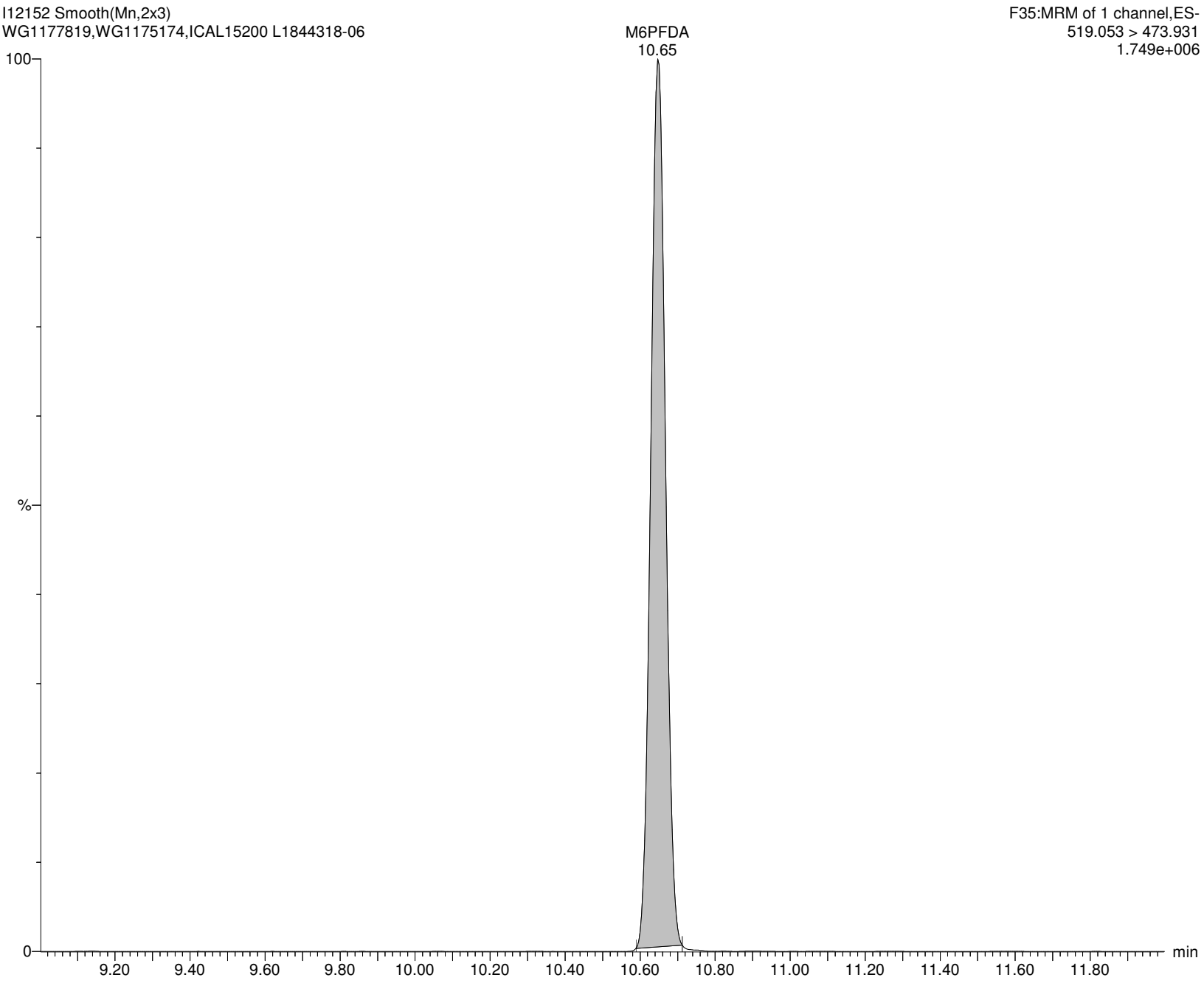

all concentration units in (ng/mL)

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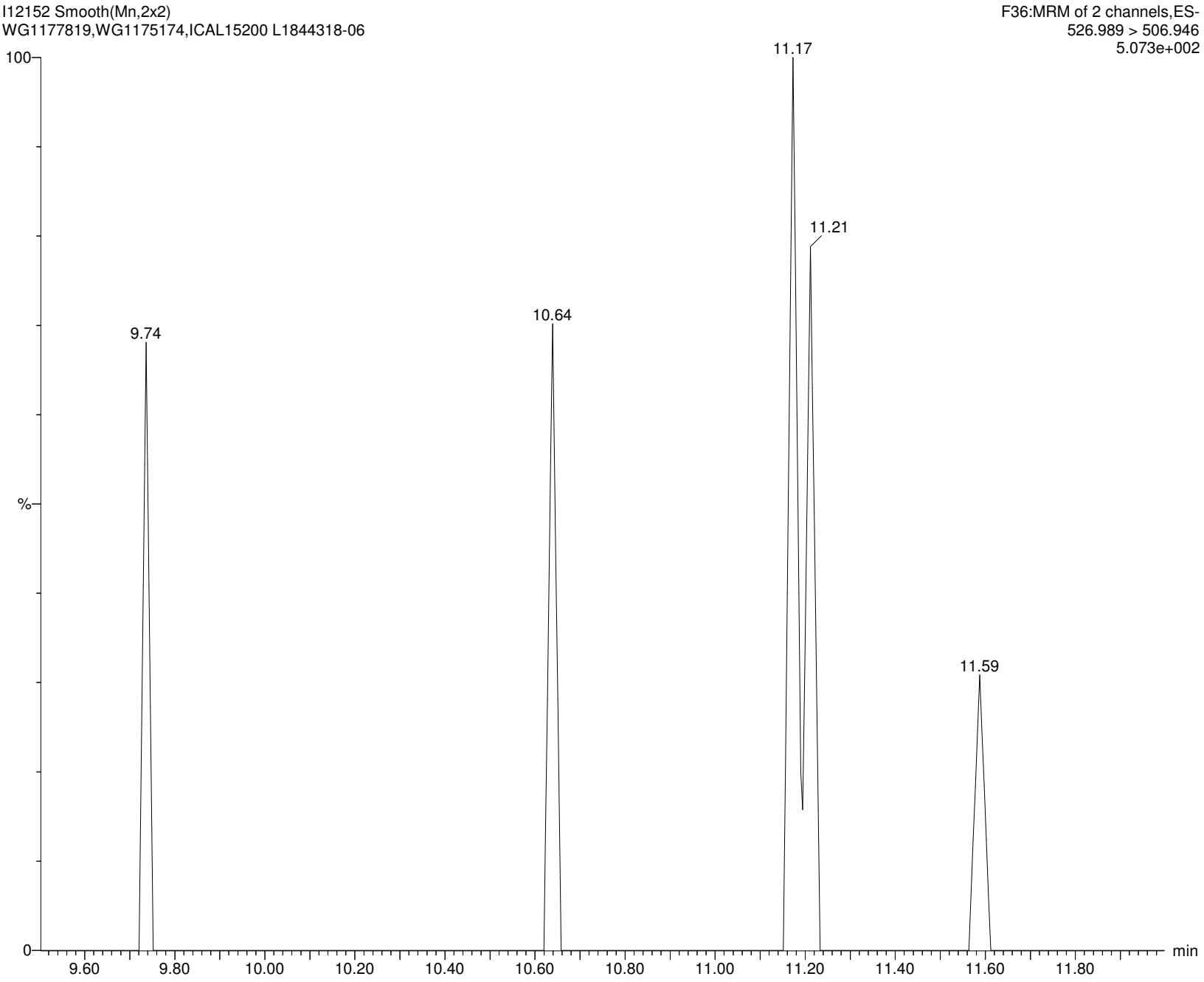

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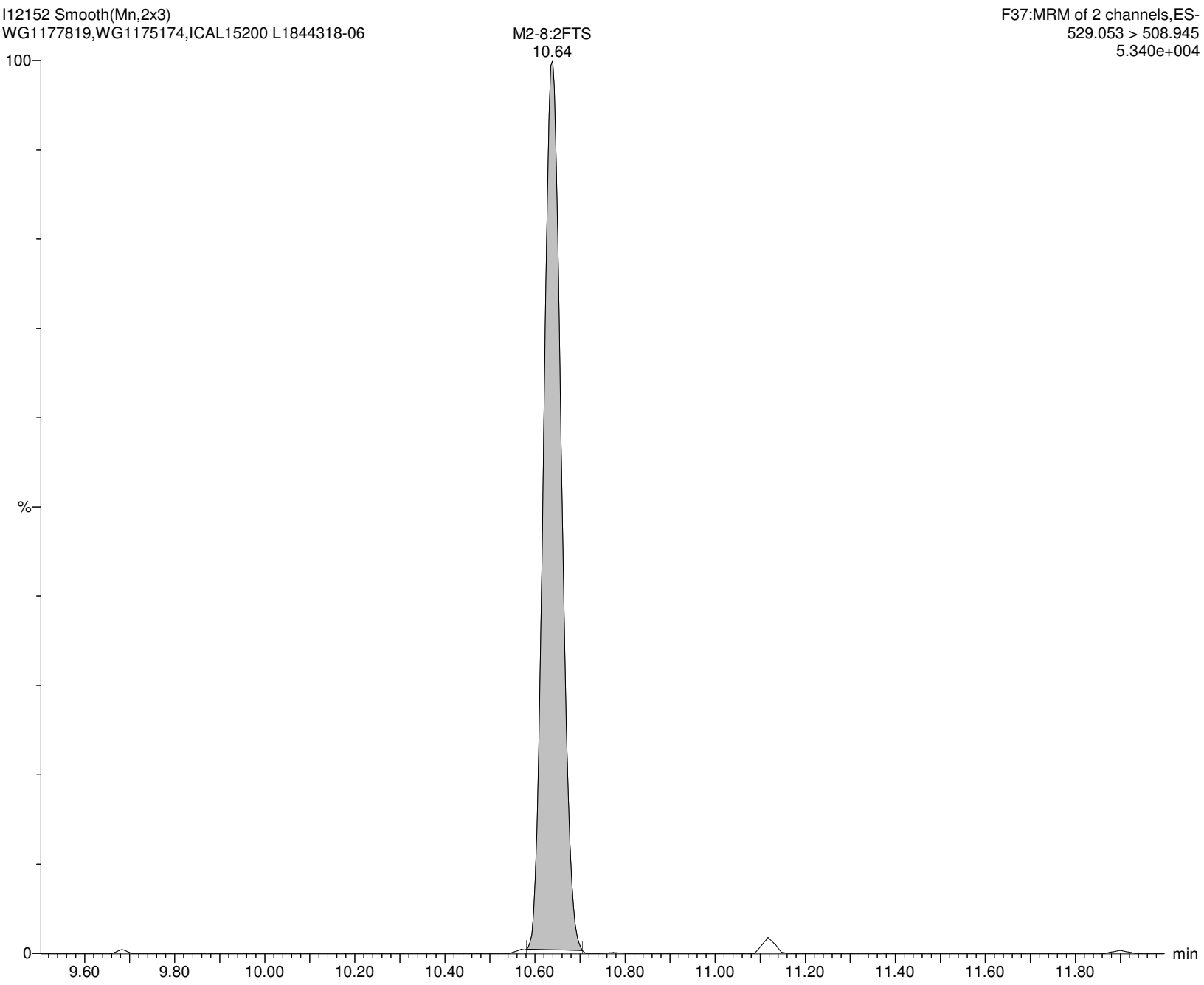

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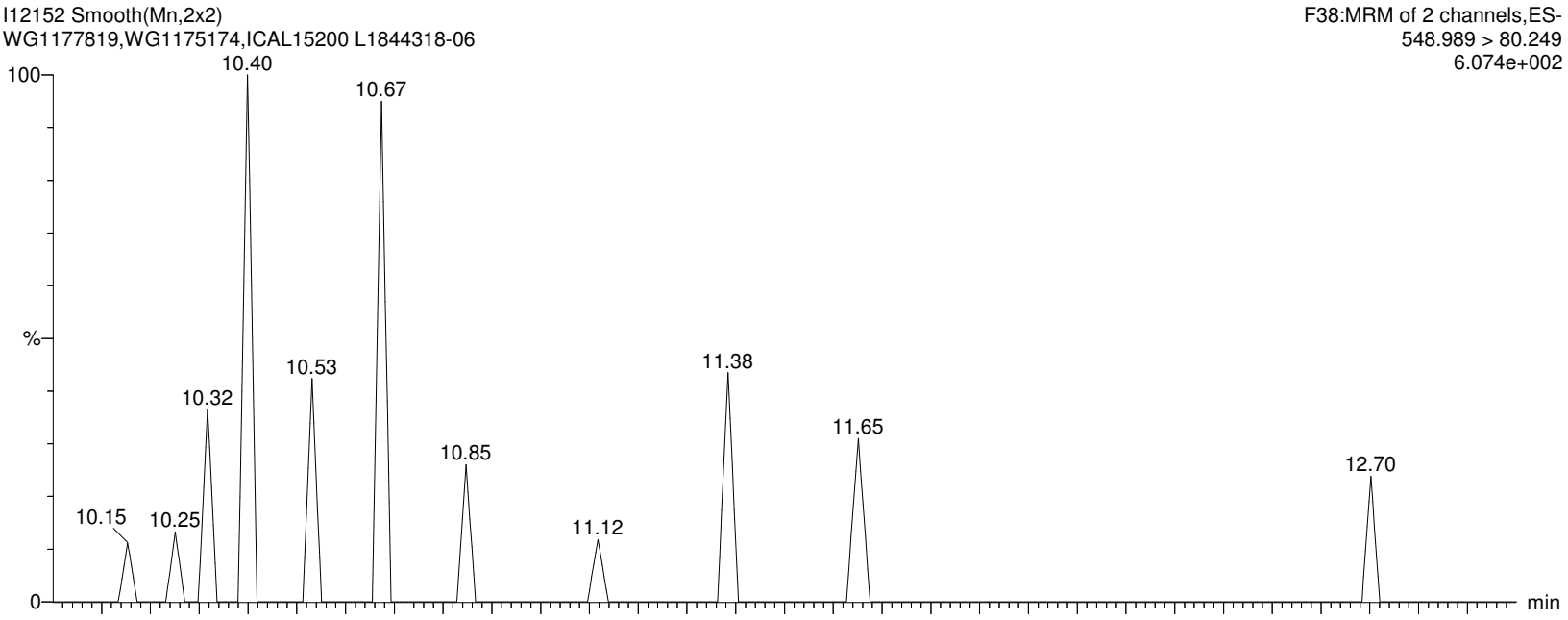

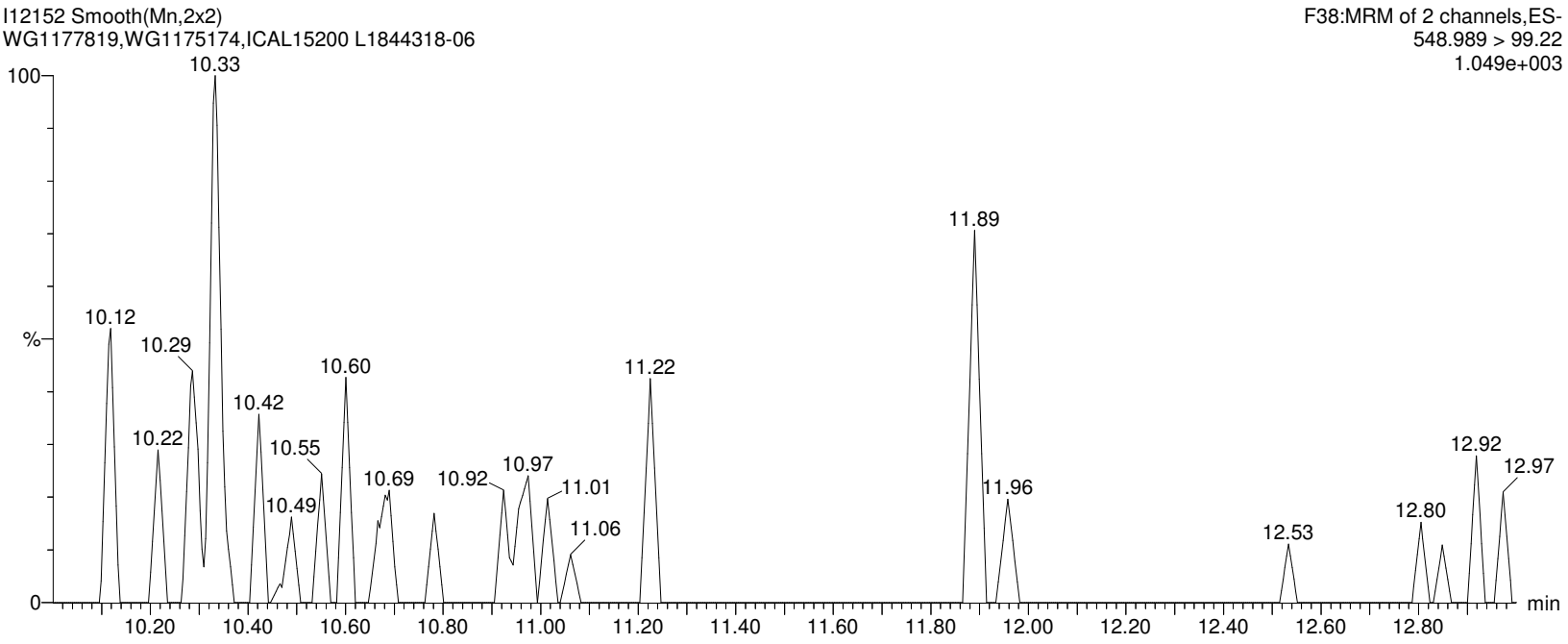

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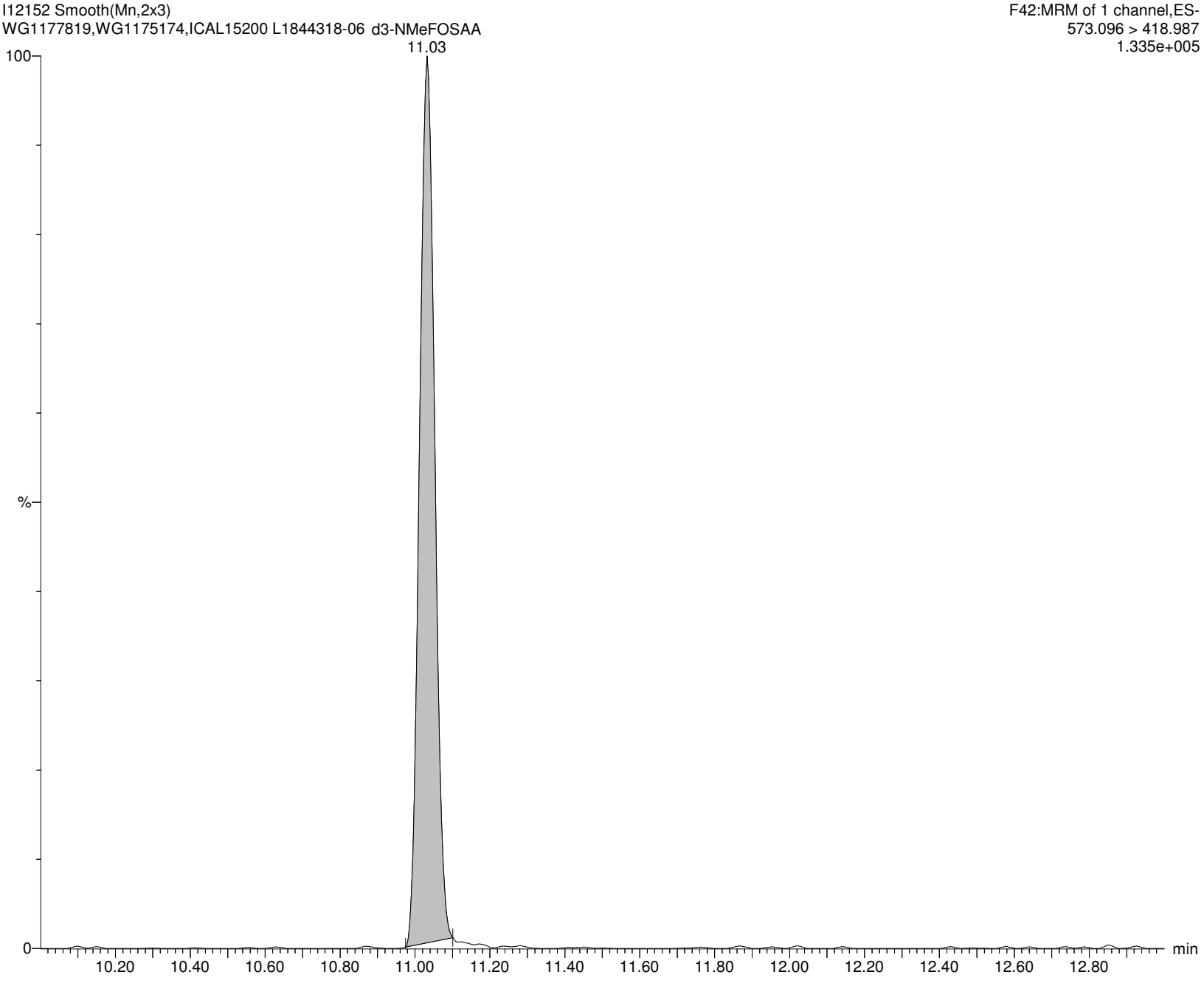

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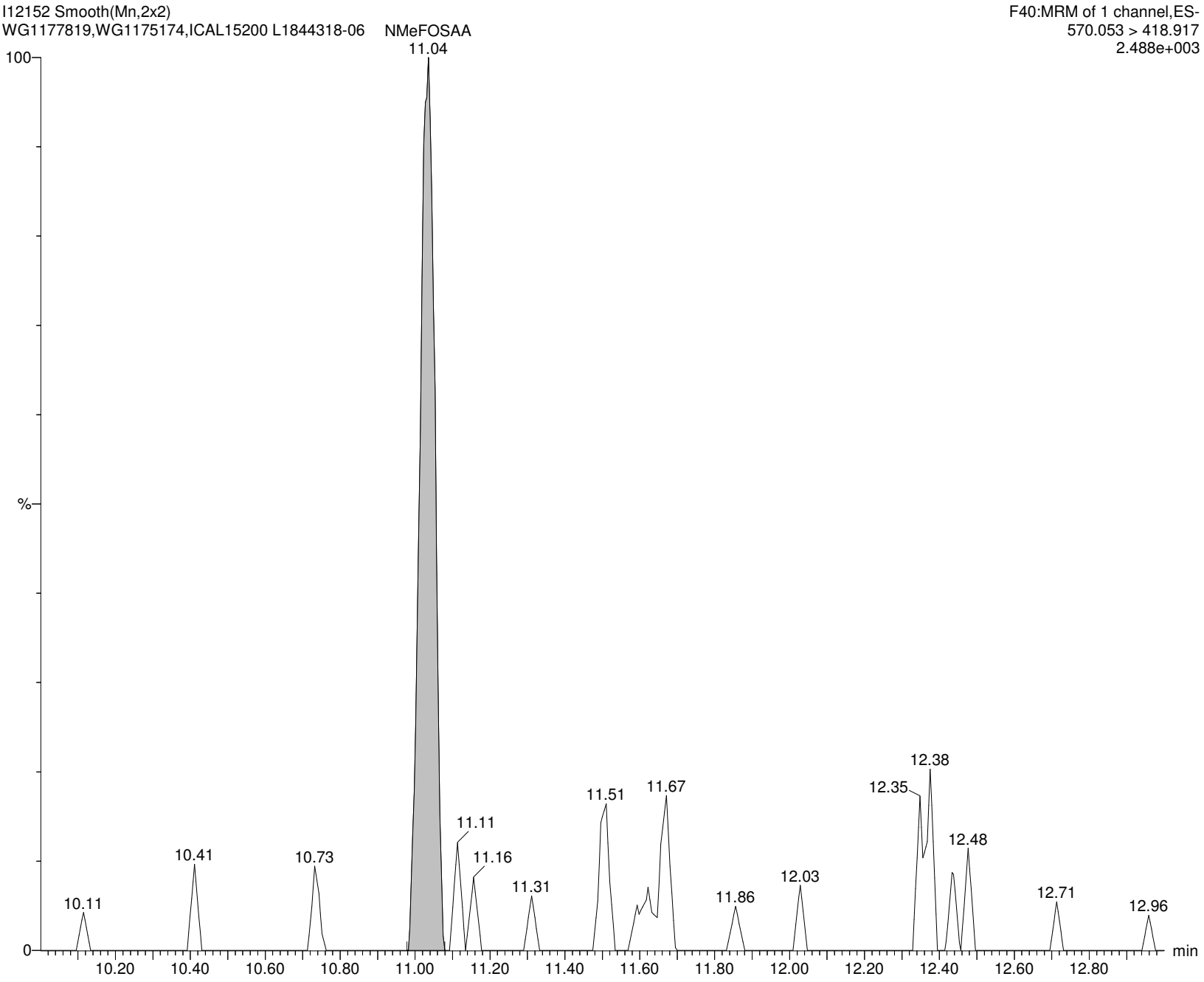

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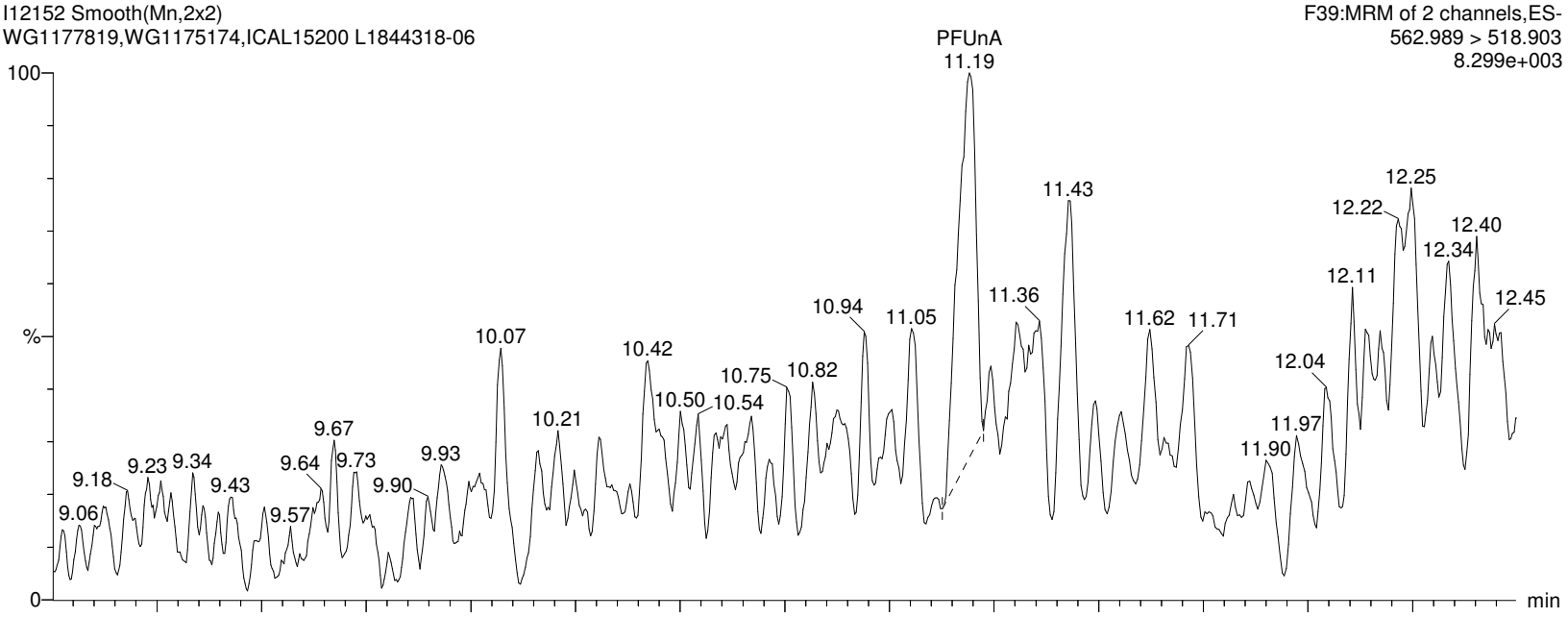

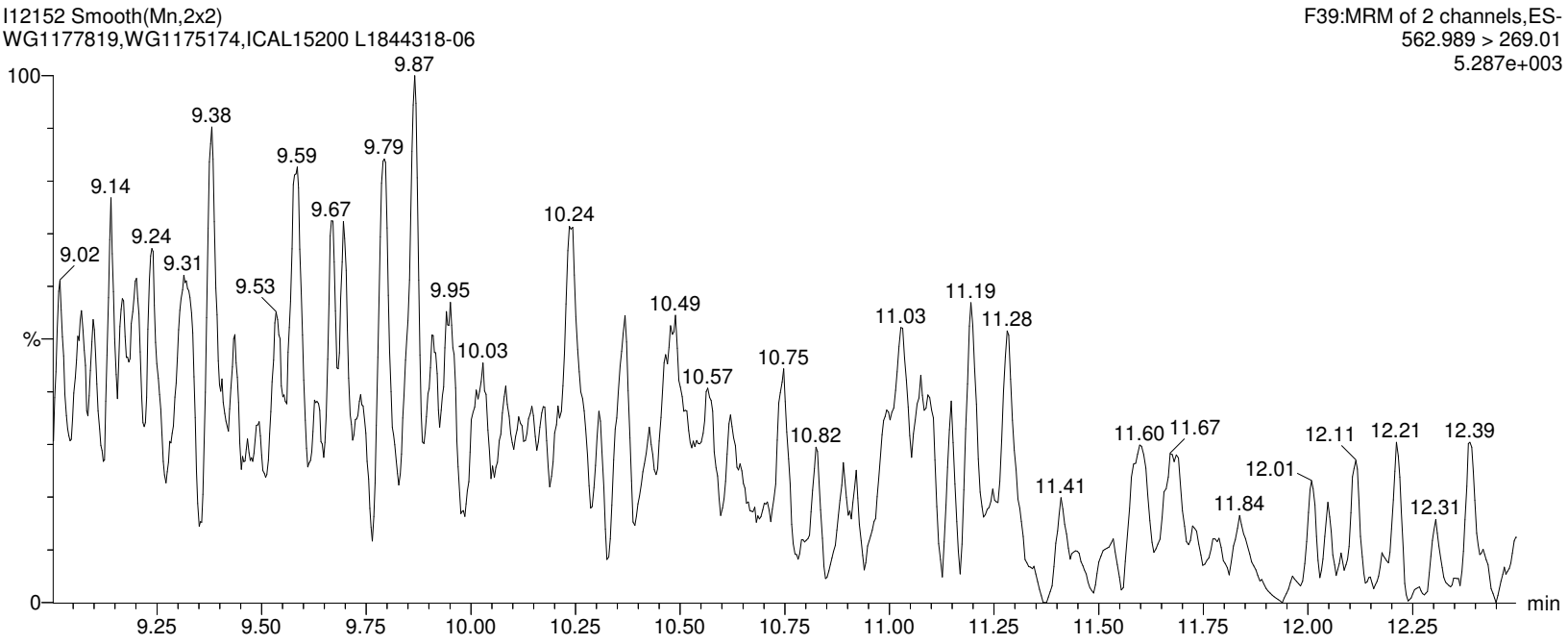

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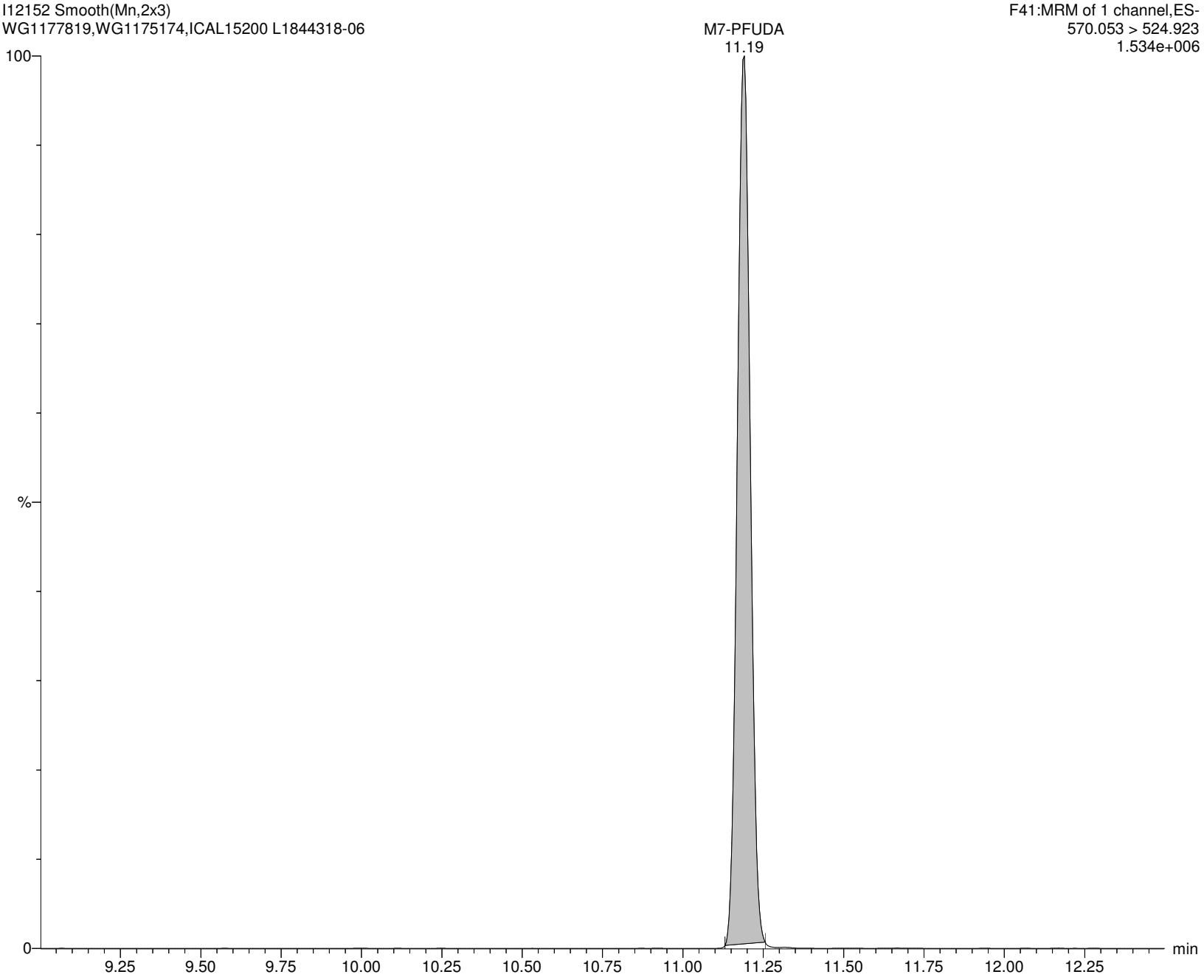

all concentration units in (ng/mL)

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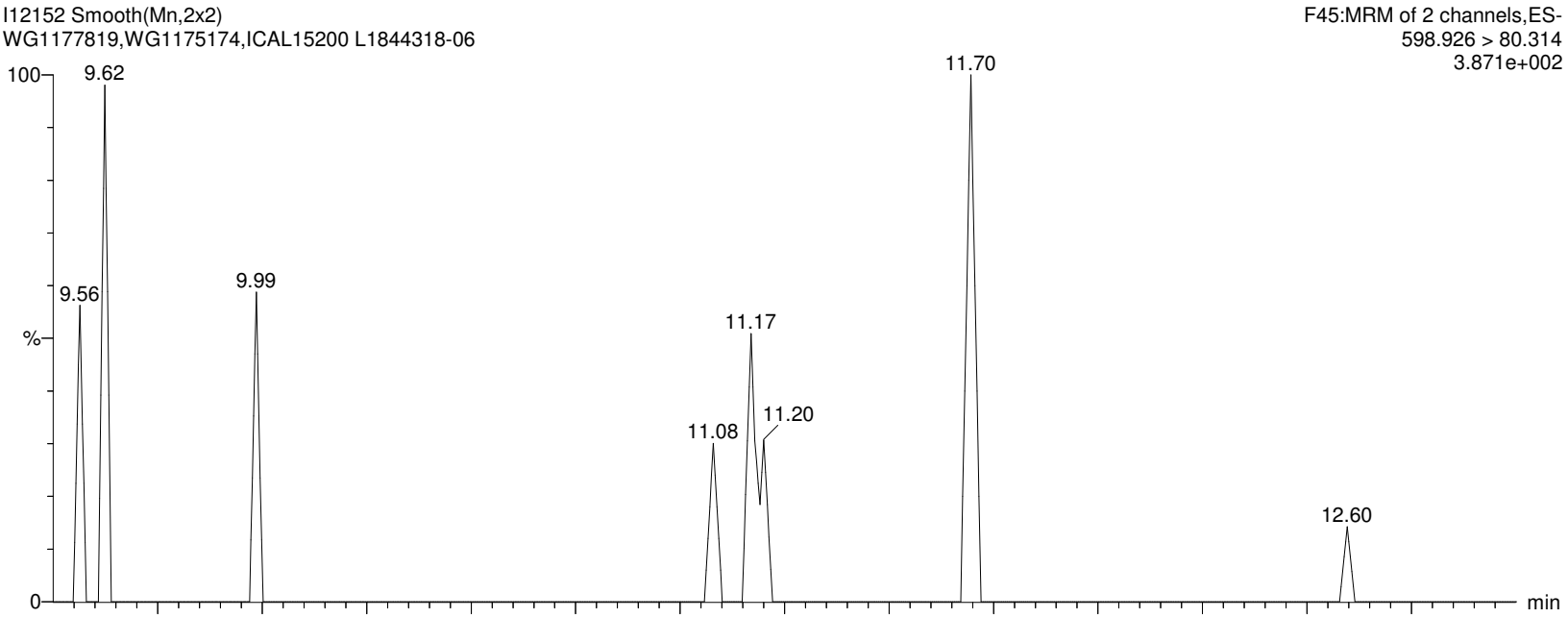

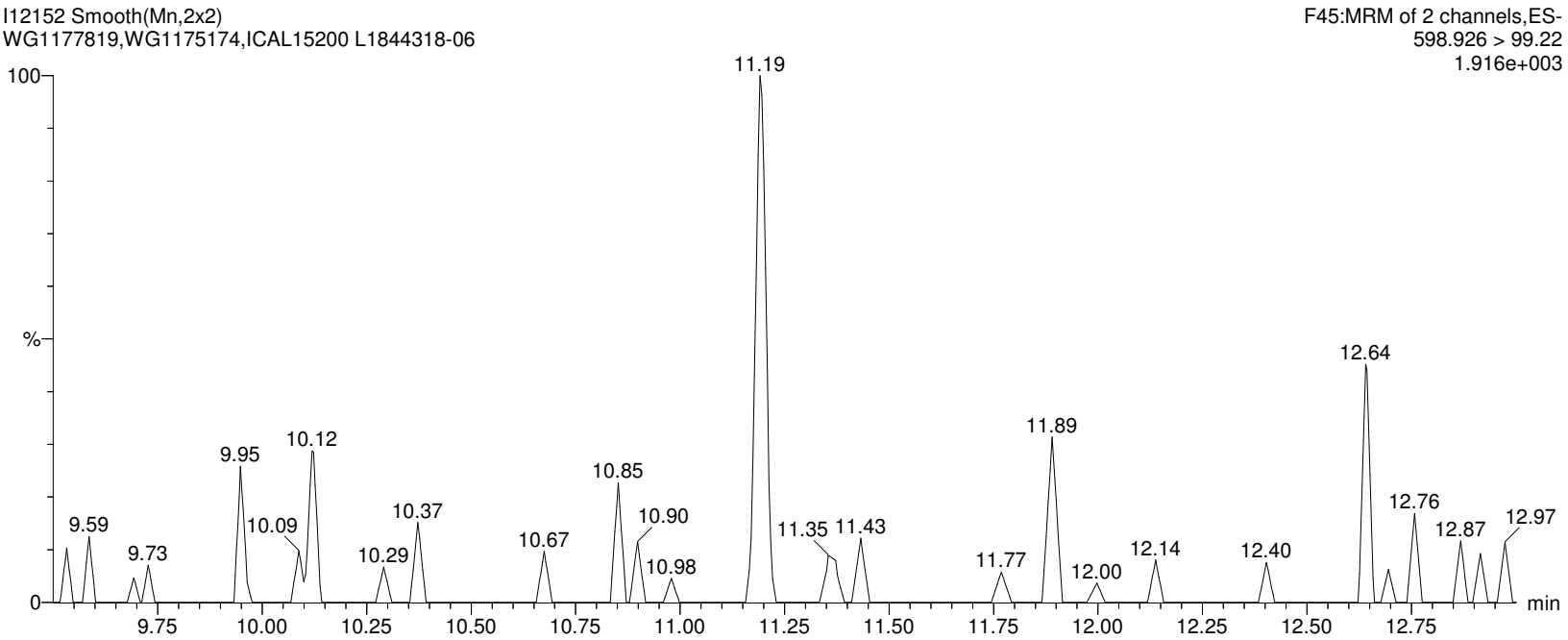

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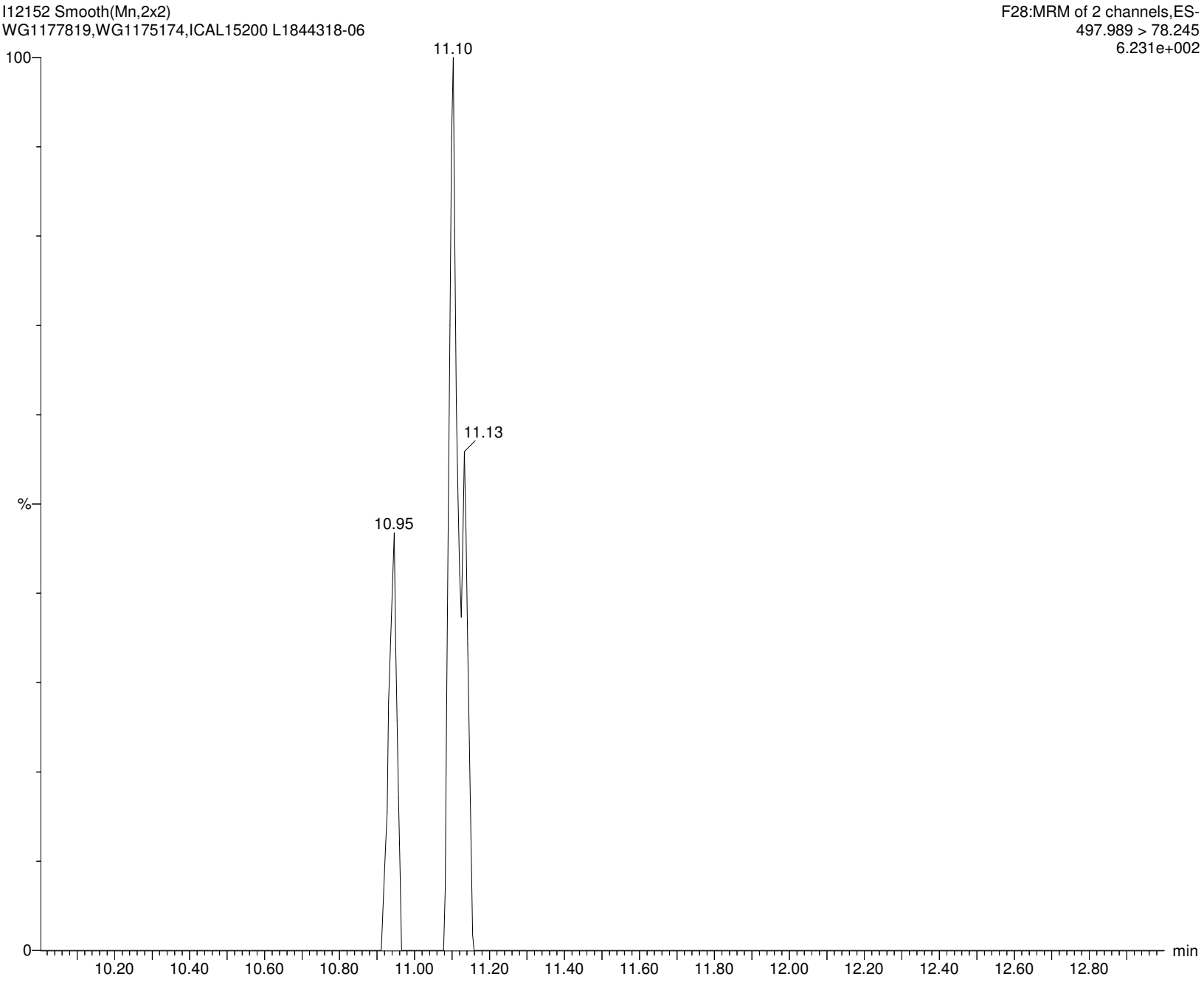

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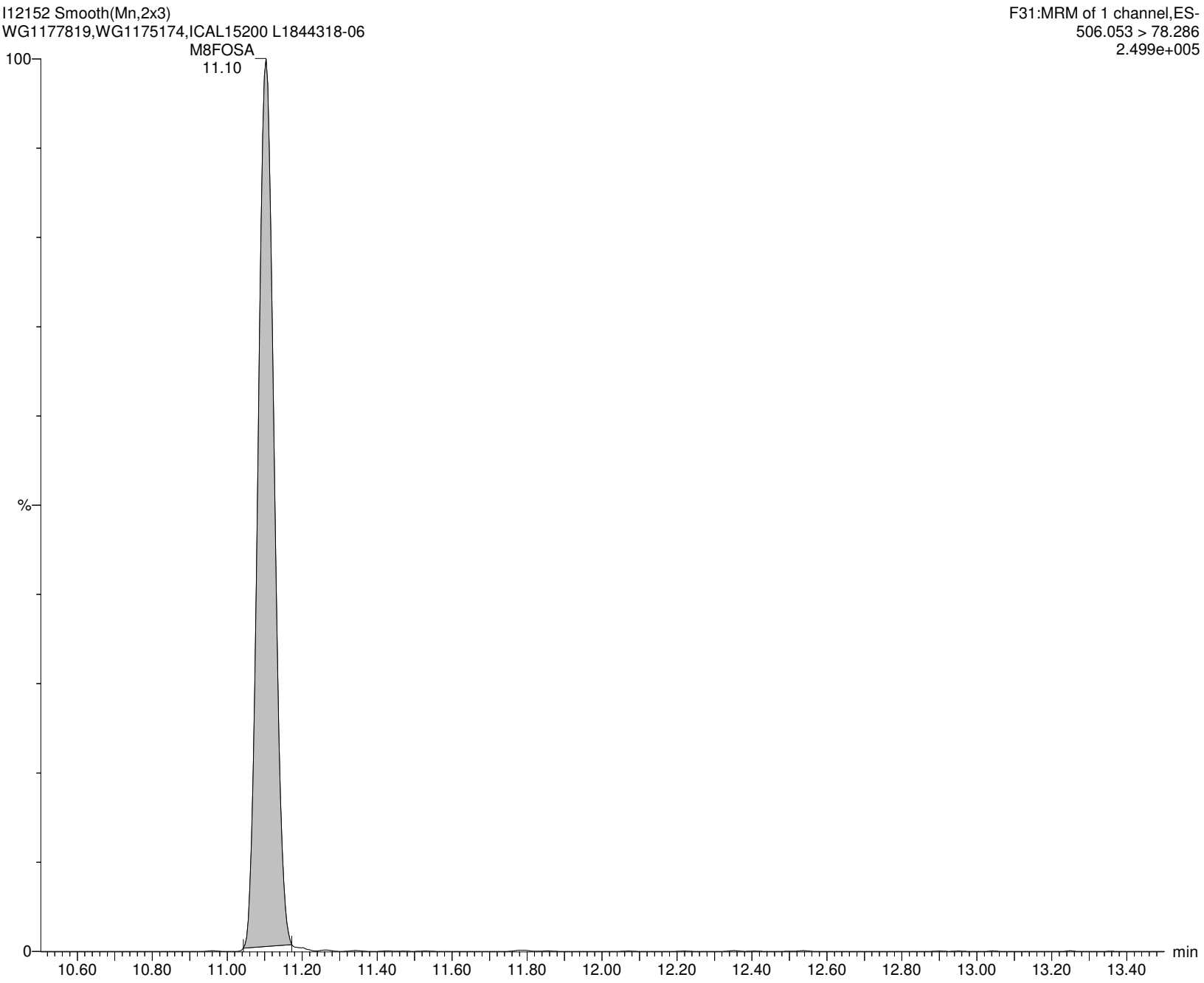

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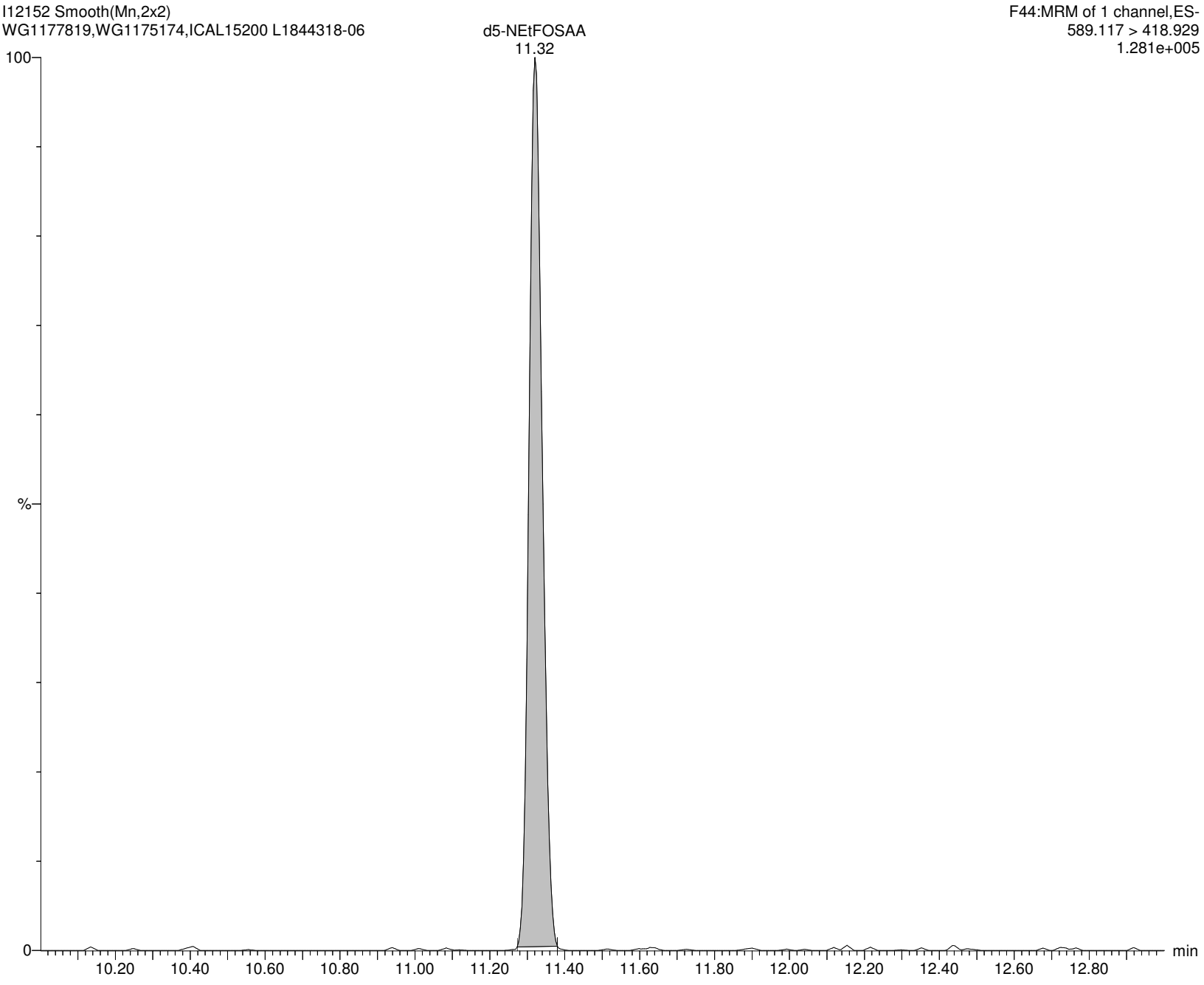

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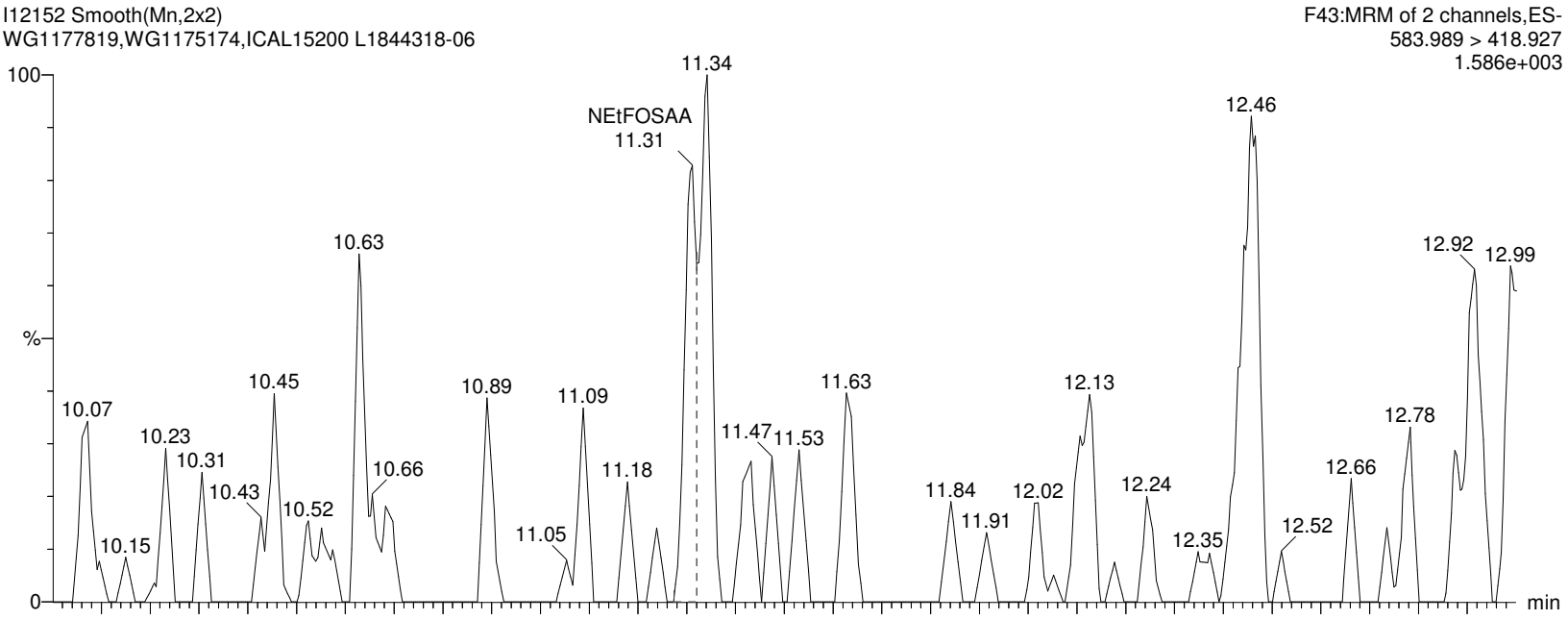

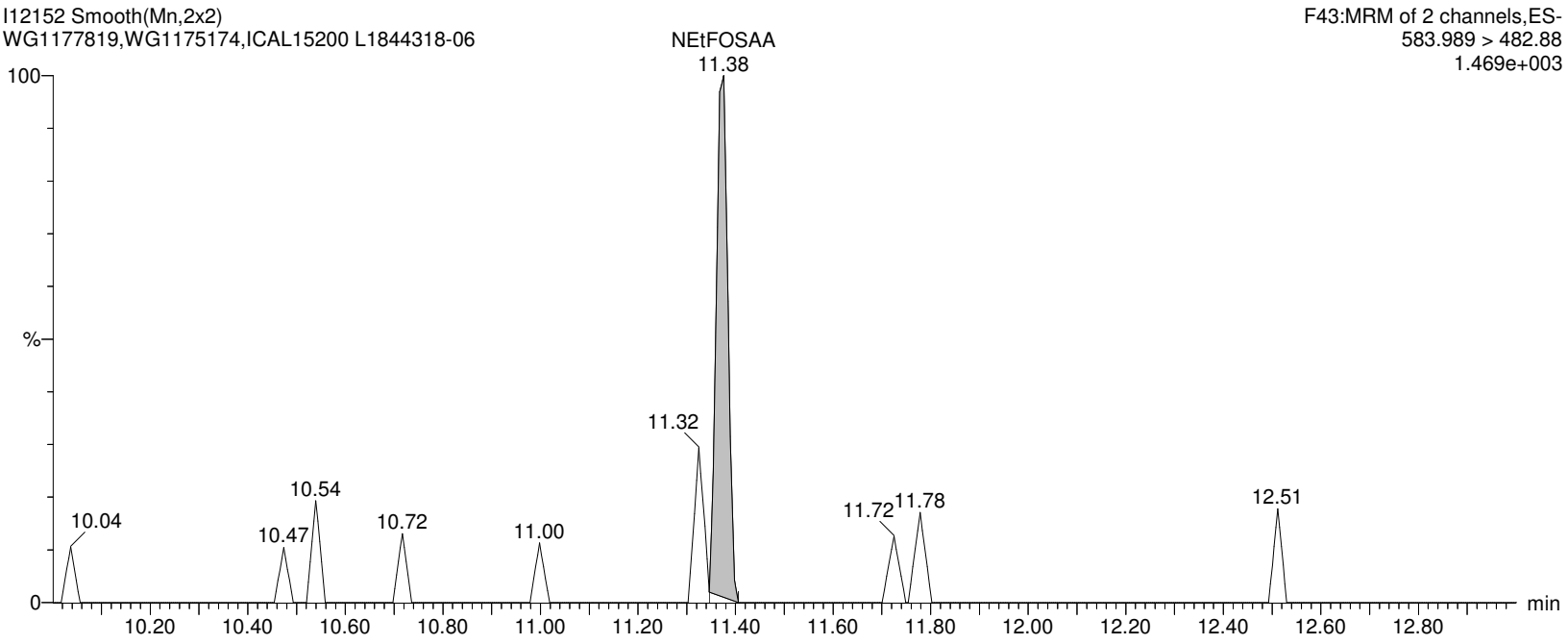

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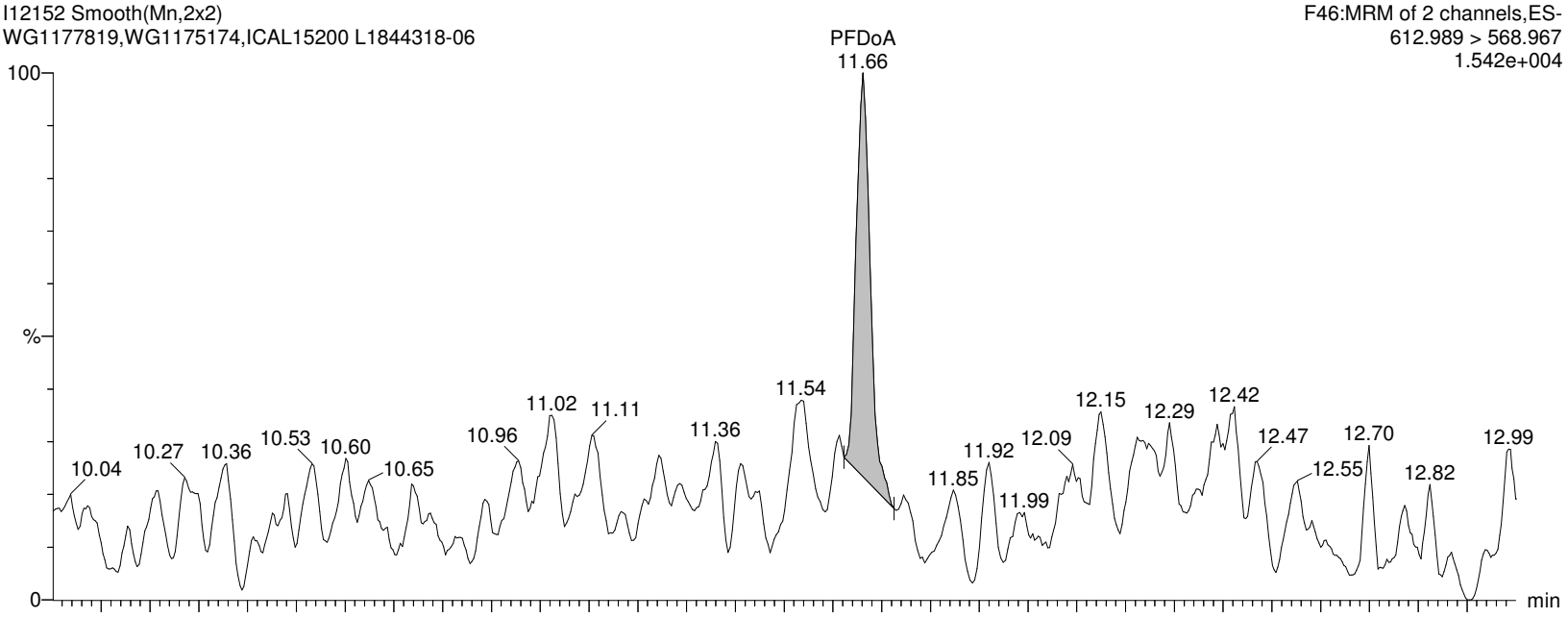

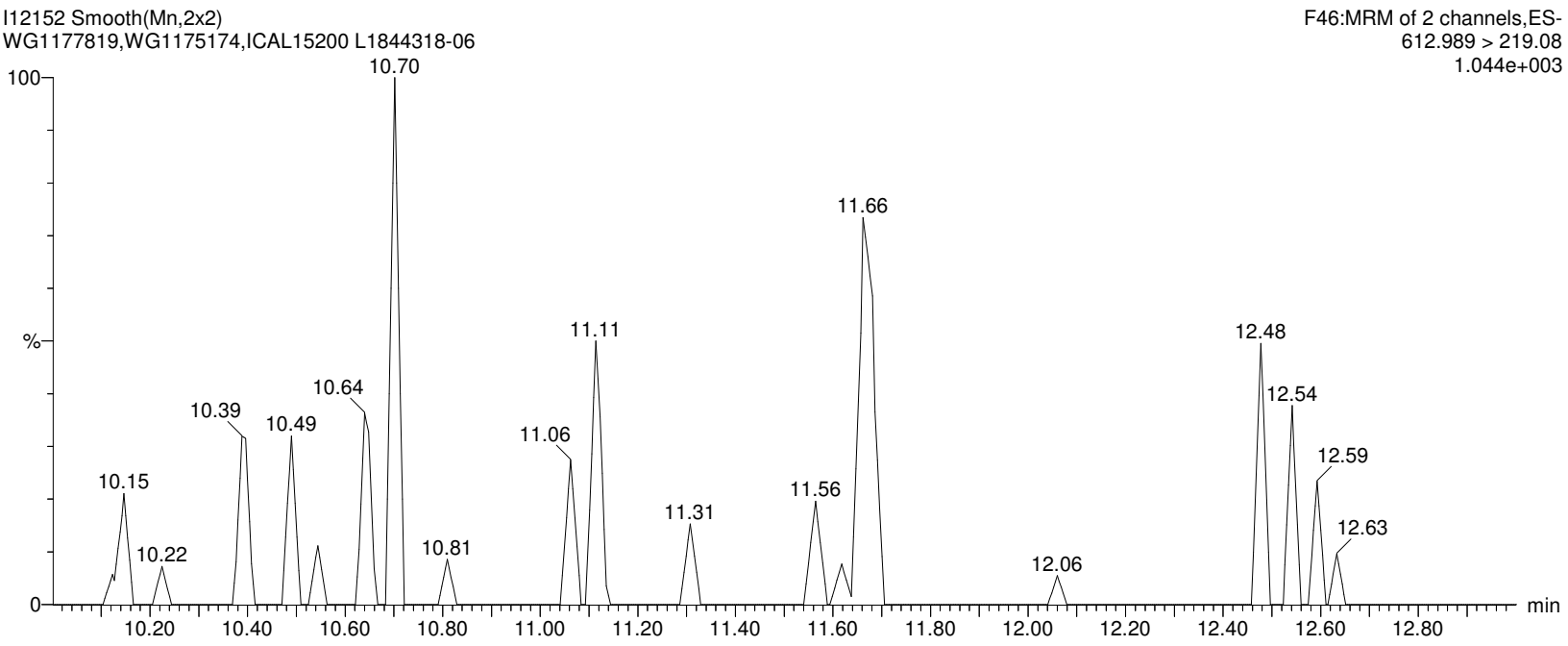

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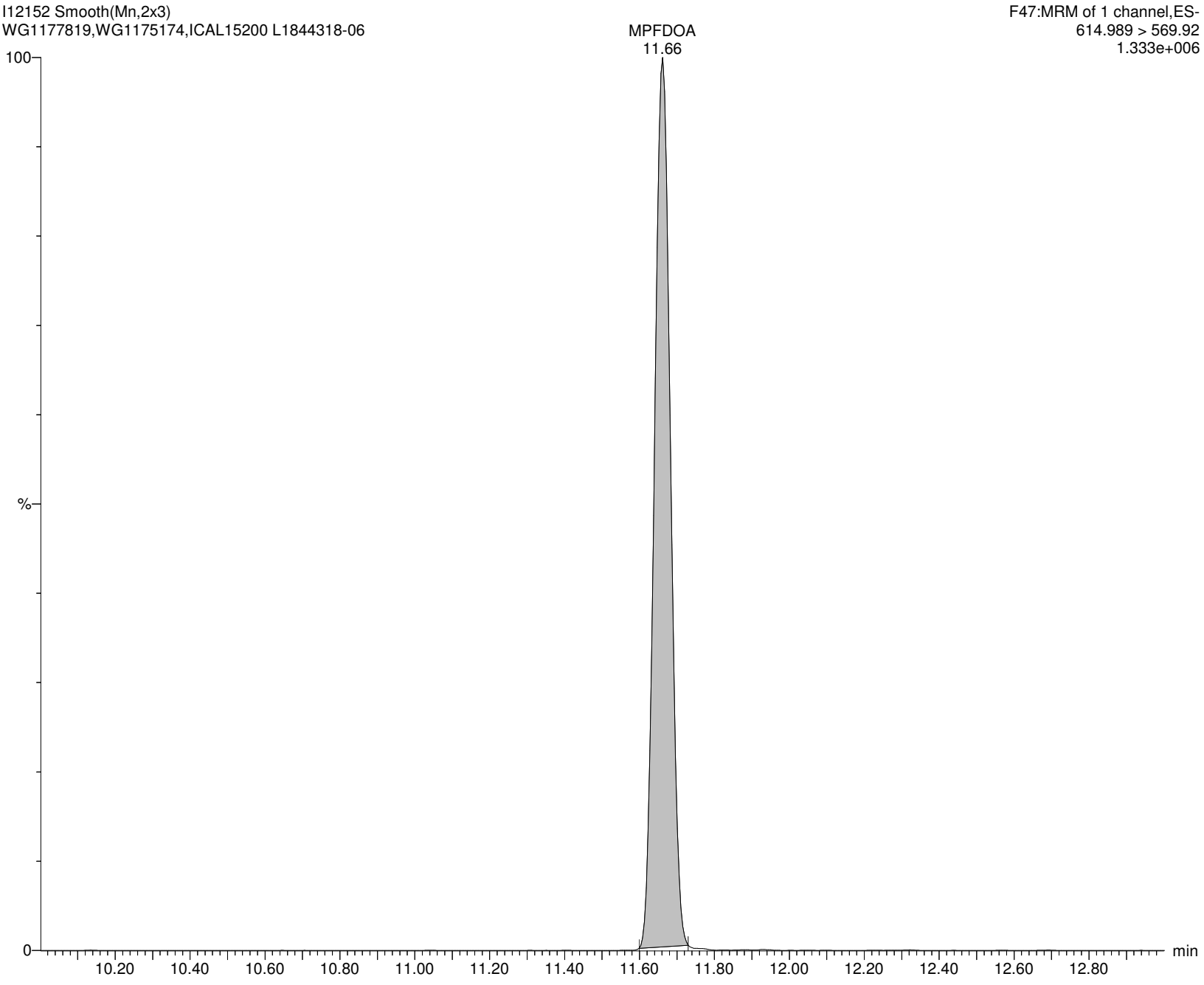

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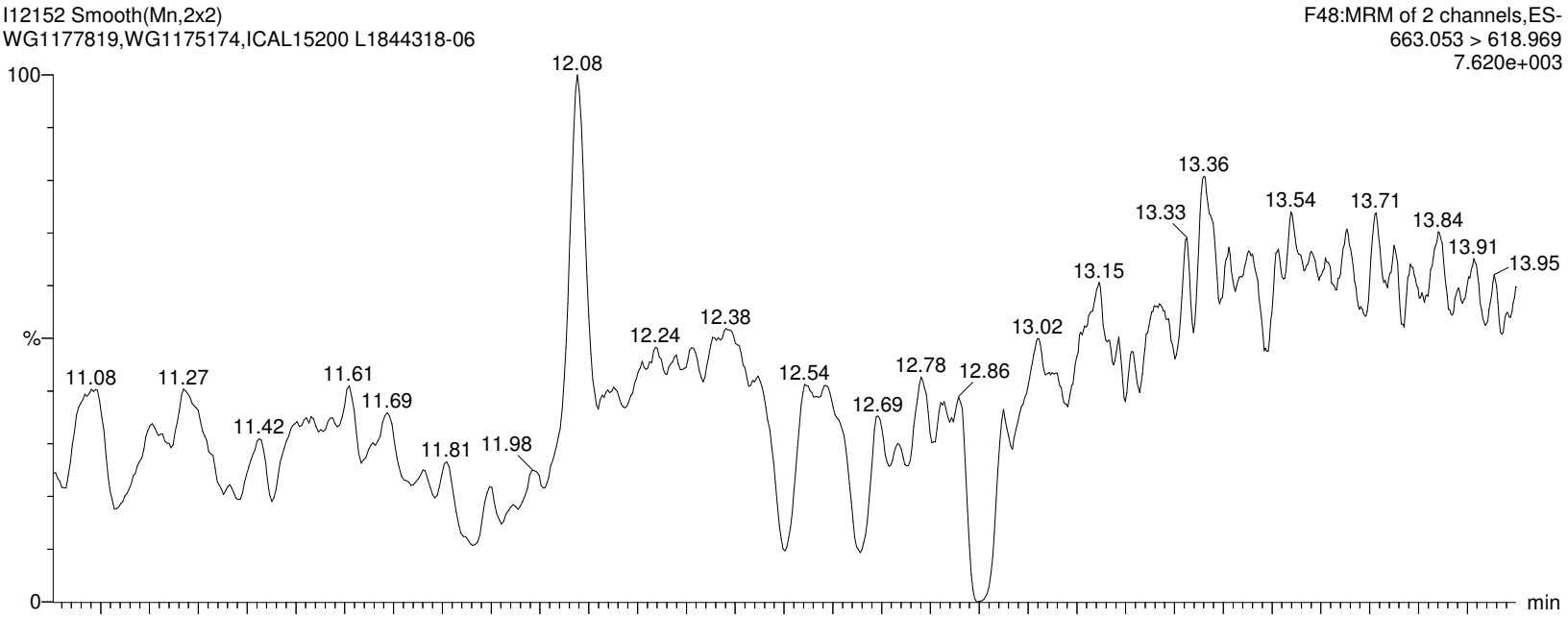

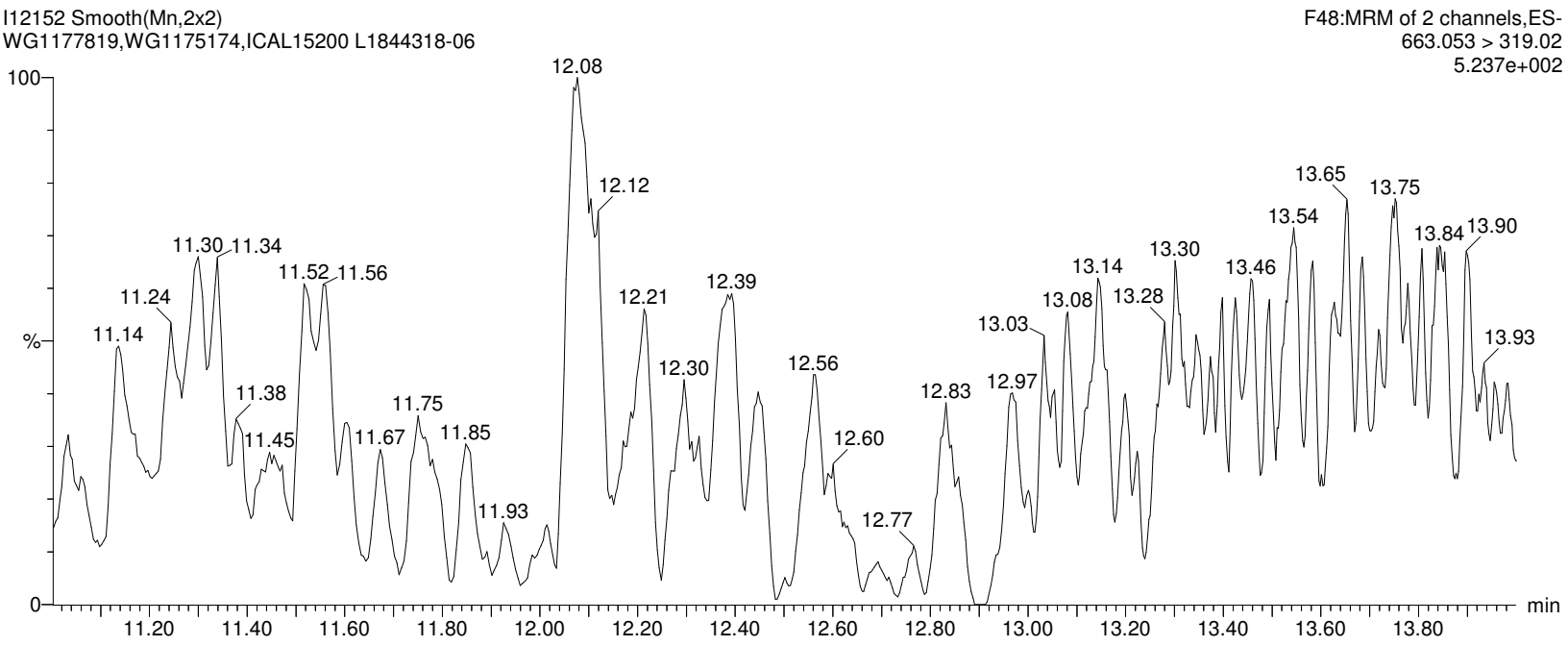

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:53 Eastern Standard Time

Name: I12152
ID: L1844318-06
Date: 10-Nov-2018
Time: 06:51:45
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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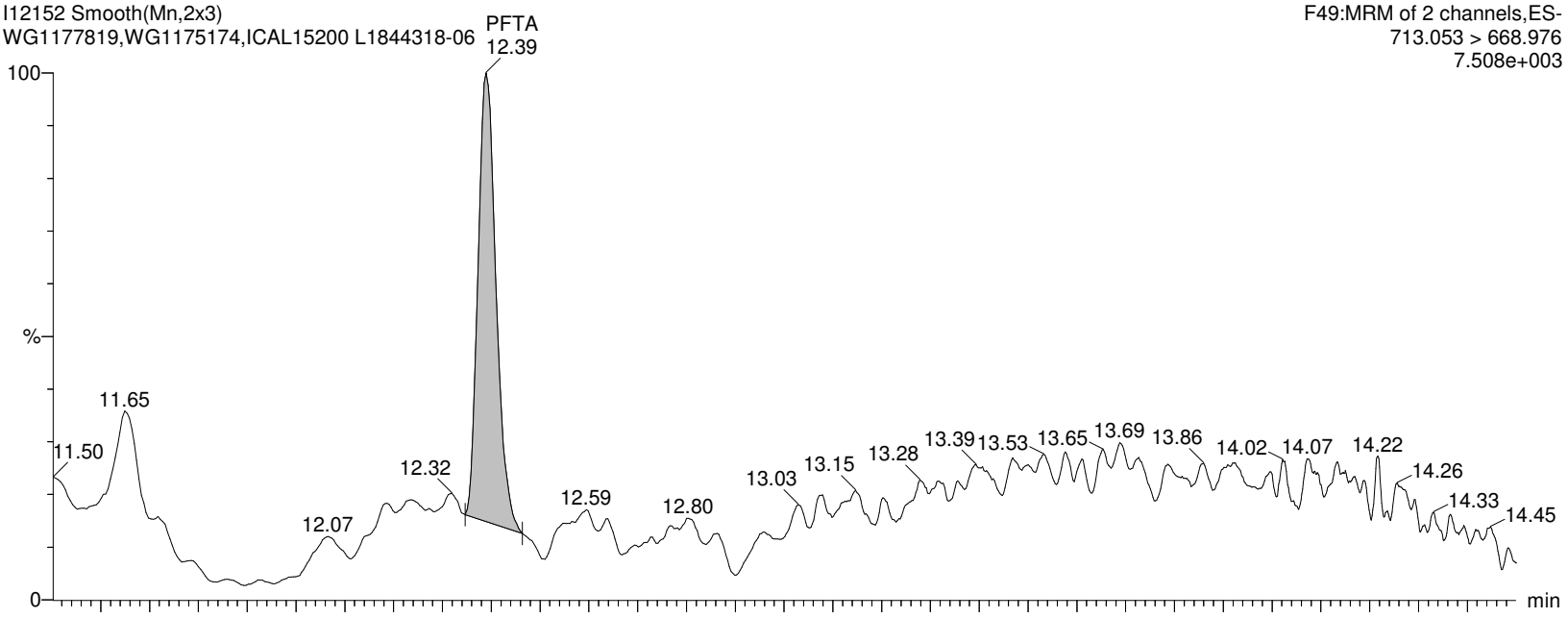

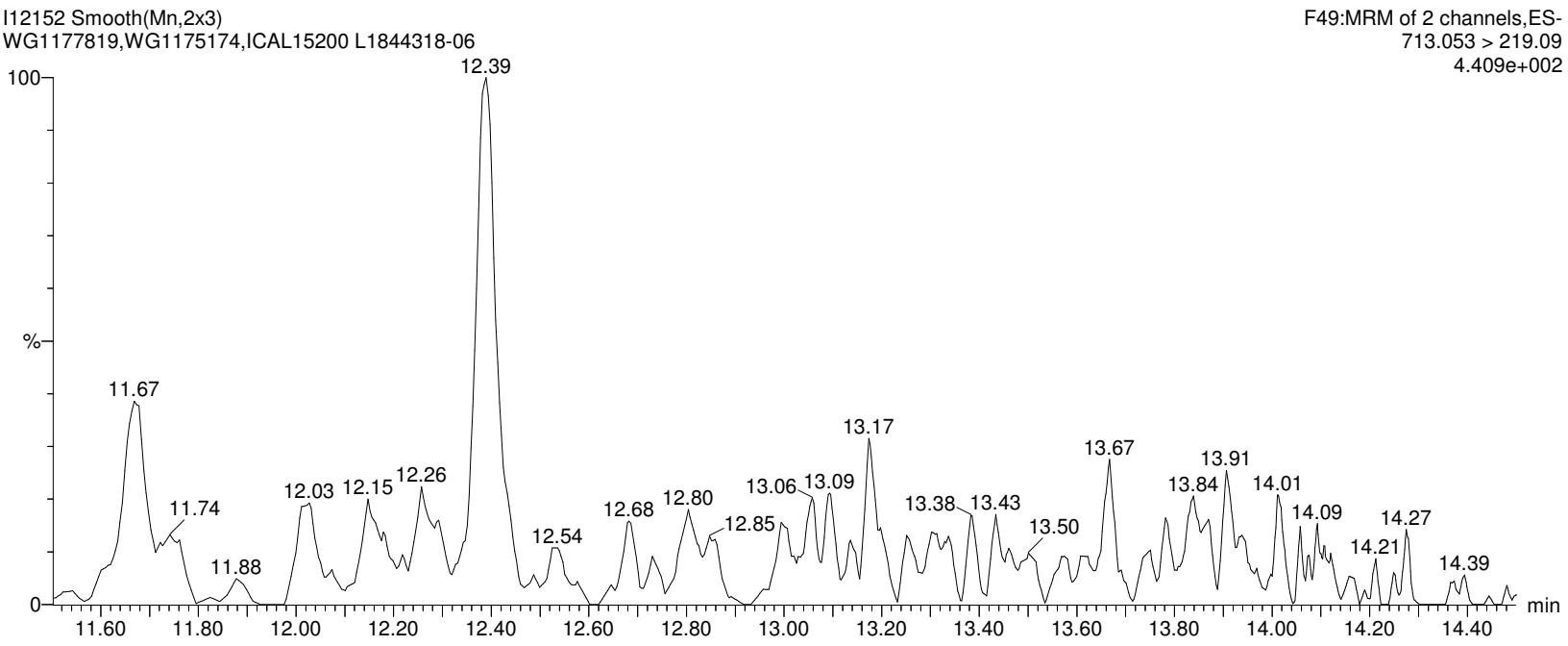

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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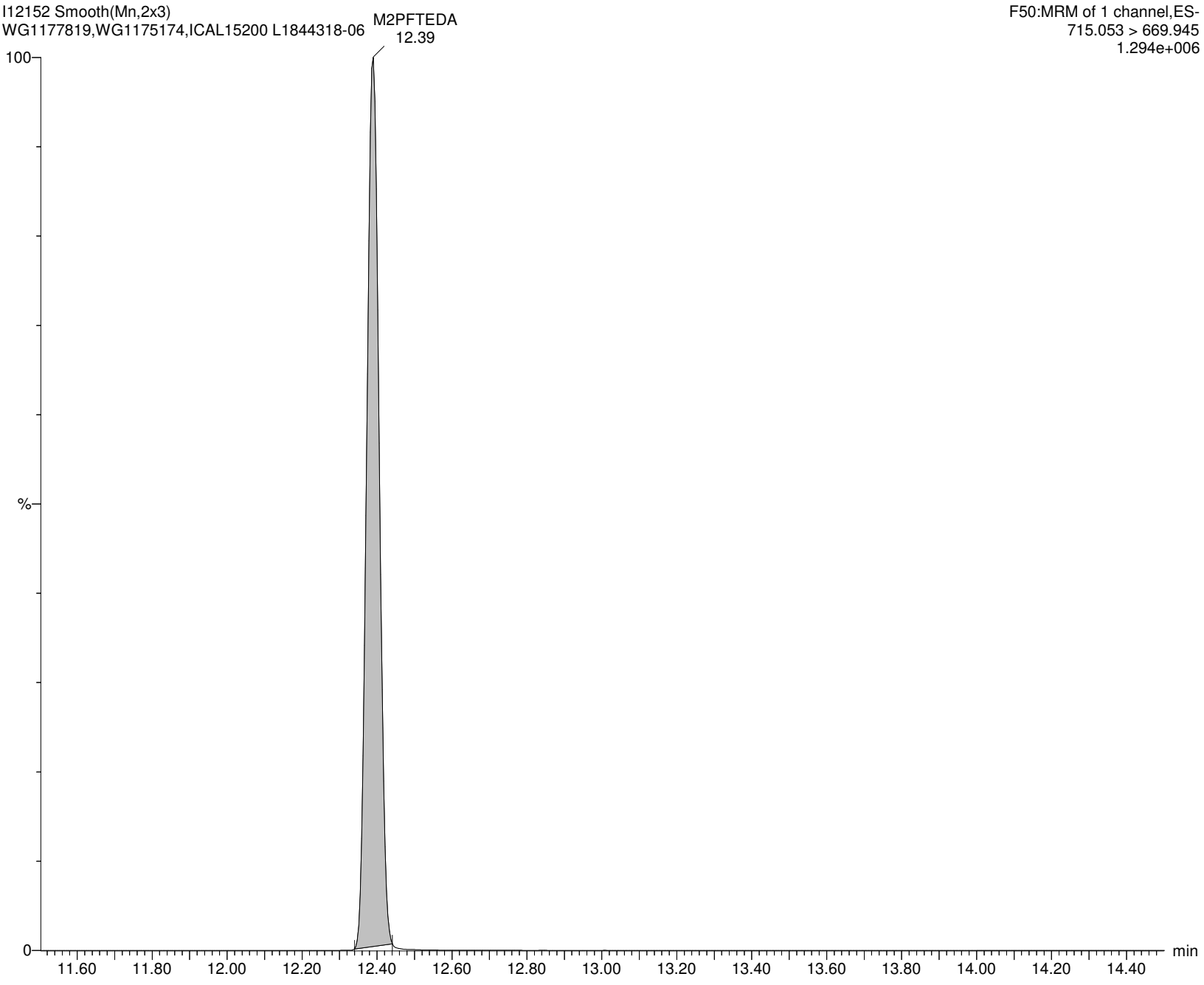

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-07
Name: I12153
Date: 10-Nov-2018
Time: 07:08:25
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	3600		0.927		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	44510		4.809		na	48.1
3	MPFBA	INT STD	2.15	216.926 > 172.137	44455		10.514		na	105.1
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	61670		11.303		na	113.0
6	PFBS	375-73-5	5.81	298.989 > 80.295	98		0.094		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	11763		8.728		na	87.3
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	6148		7.354		na	73.5
10	PFHxA	307-24-4	7.06	312.989 > 269.028	836		0.106		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	81533		9.676		na	96.8
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	925		0.090		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	104508		10.547		na	105.5
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	40		0.033	1.59	NO	
17	PFHxS	355-46-4		398.926 > 80.295	40		0.033		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8633		11.532		na	115.3
19	br-PFOA	335-67-1	9.06	412.989 > 368.9	815		0.083	3.58	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	2795		0.286	13.49	YES	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	116966		6.195		na	61.9
22	PFOA	335-67-1		412.989 > 368.9	3610		0.370		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	100091		10.611		na	106.1
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4474		6.447		na	64.5
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	91595		9.736		na	97.4
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	221		0.152	11.99	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	192		0.185	1.26	NO	
31	PFOS	1763-23-1		498.989 > 80.294	413		0.337		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10811		6.674		na	66.7
33	M8PFOS	INT STD	10.07	507.053 > 80.294	9943		9.862		na	98.6
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	89275		6.005		na	60.1
36	M6PFDA	INT STD	10.65	519.053 > 473.931	80330		9.966		na	99.7
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2114		5.188		na	51.9
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Name: I12153
Date: 10-Nov-2018
Time: 07:08:25
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6222		7.160		na	71.6
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	76451		11.331		na	113.3
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	11867		4.126		na	41.3
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5791		6.908		na	69.1
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	77138		10.176		na	101.8
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	55348		9.857		na	98.6

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Instrument: XEVO-TQSmicro#QEA0276
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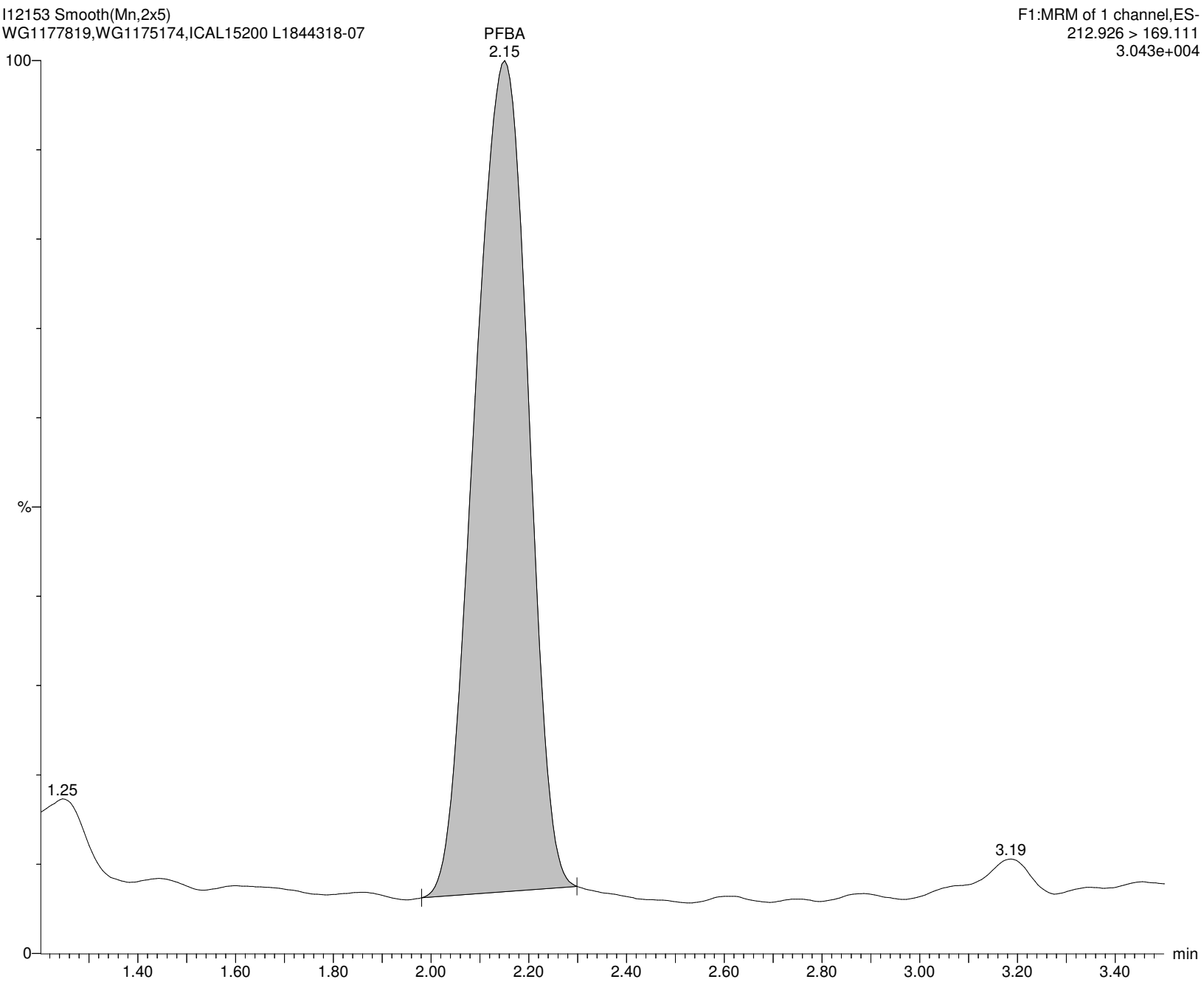

all concentration units in (ng/mL)

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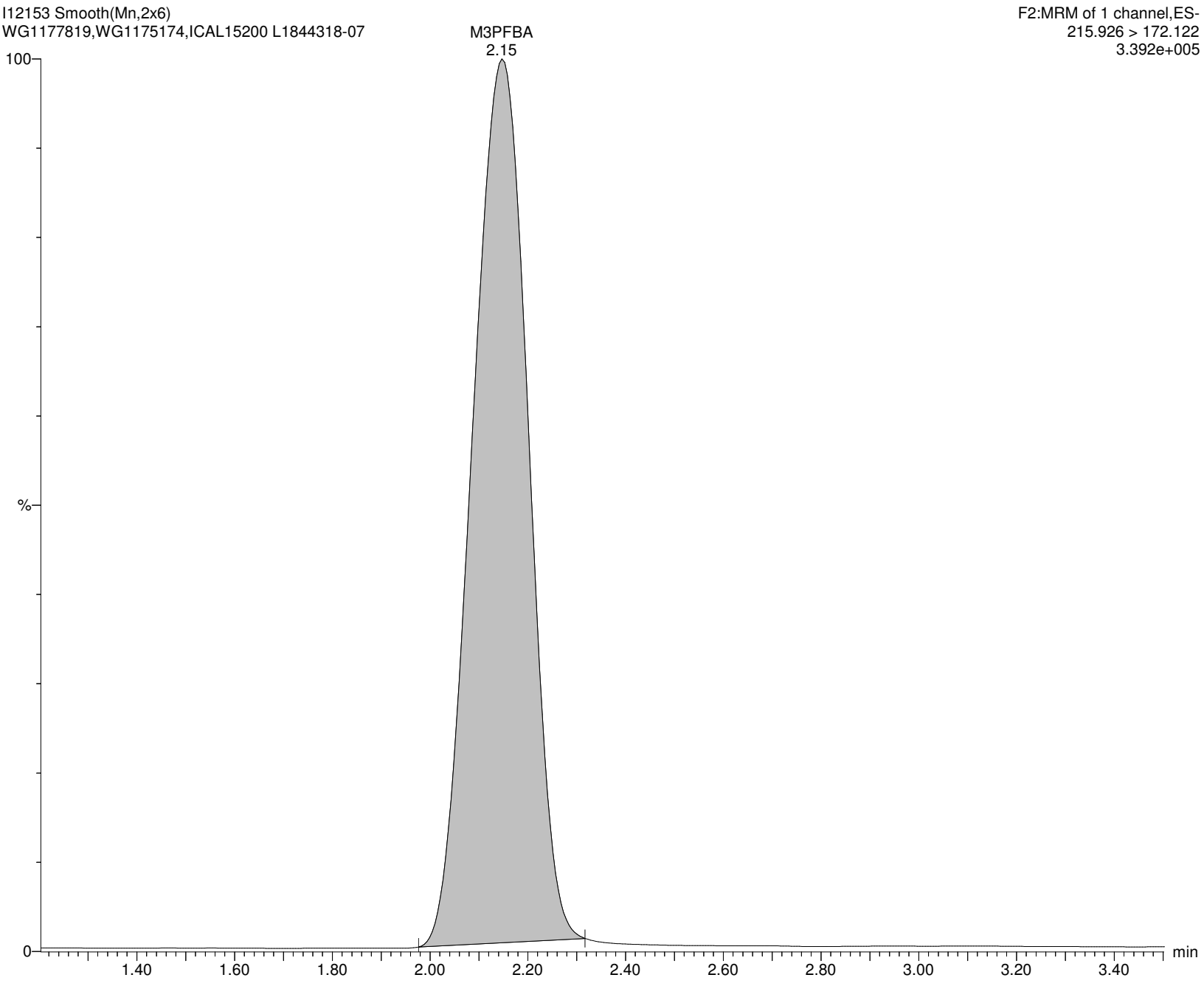

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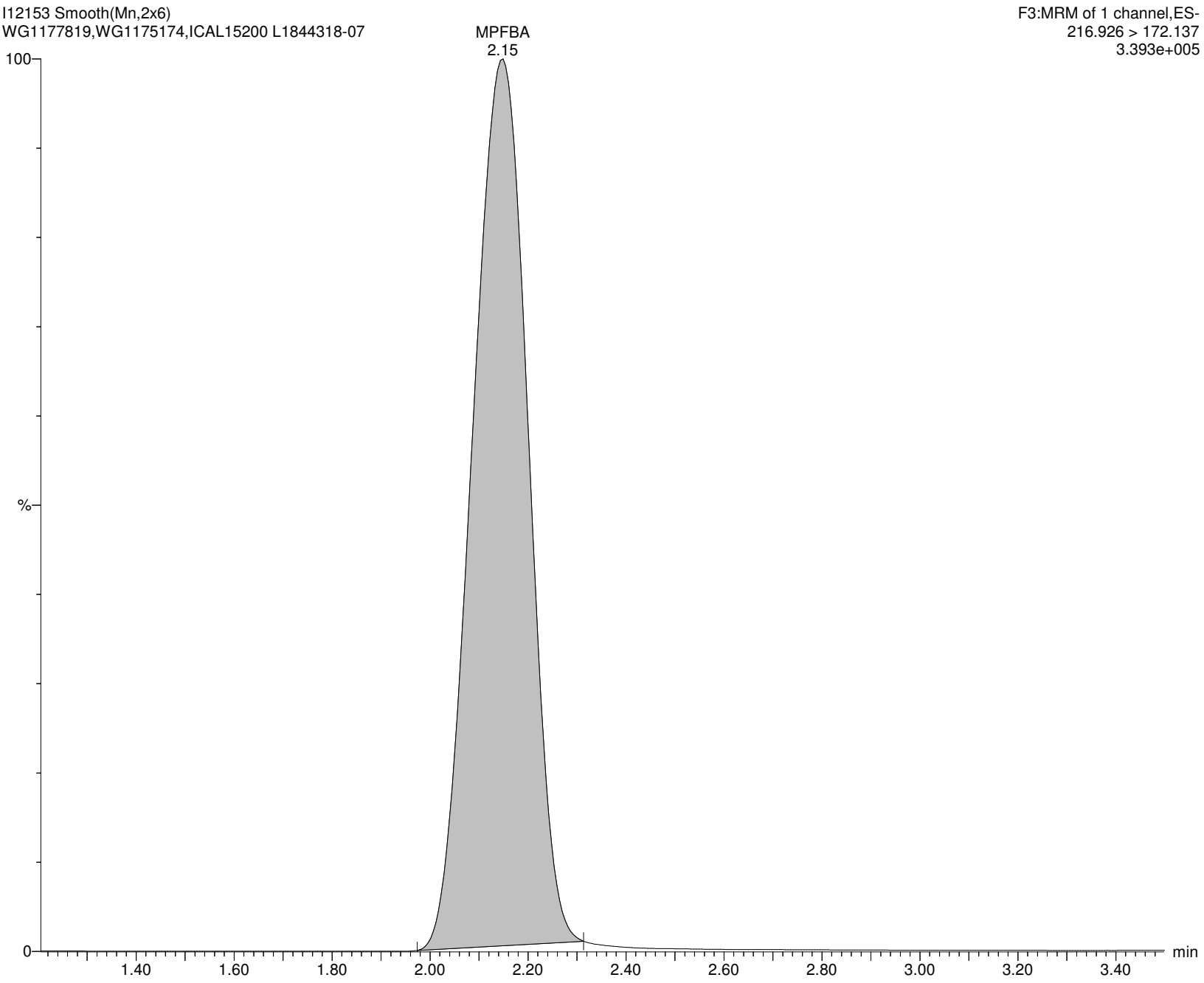

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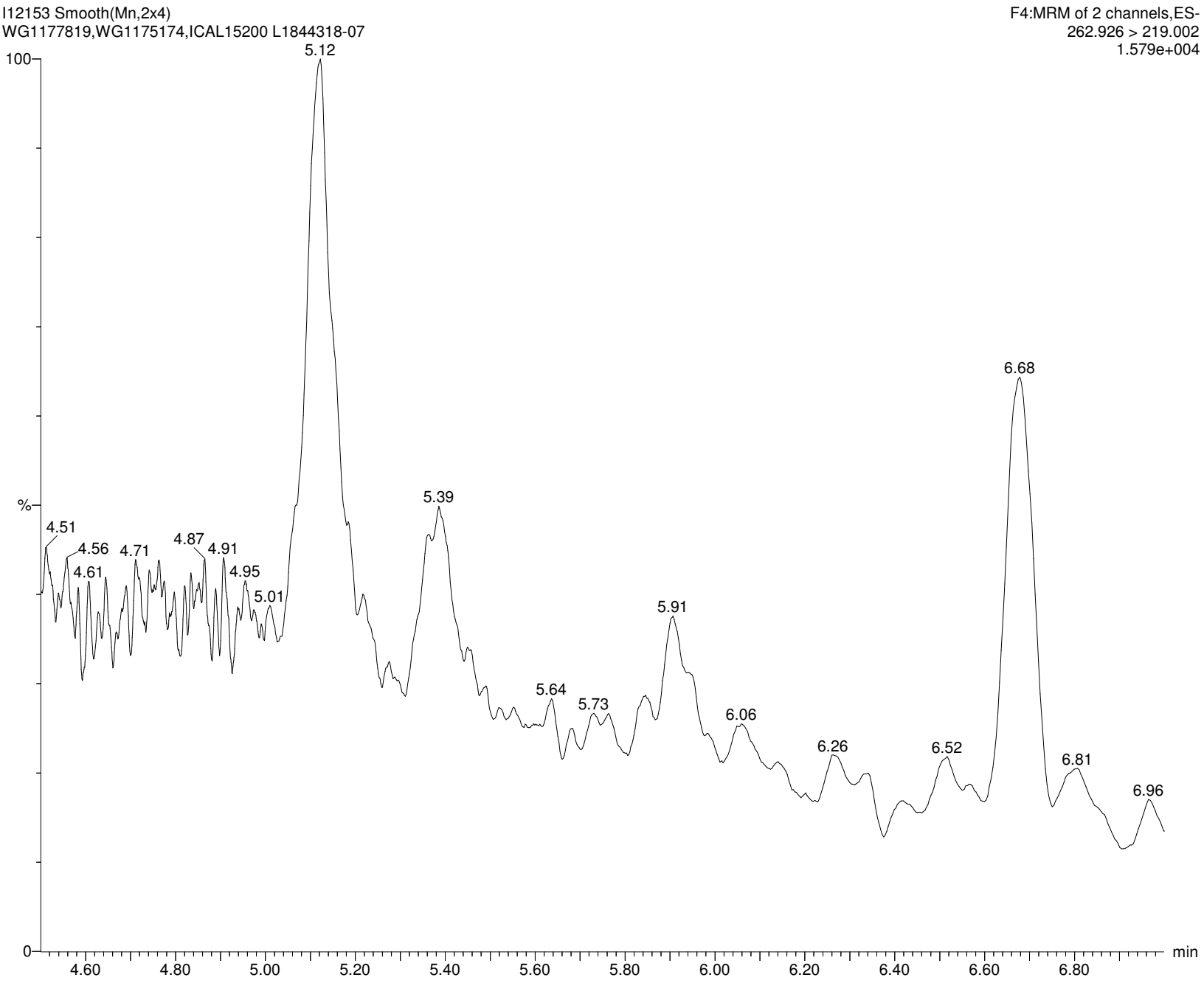

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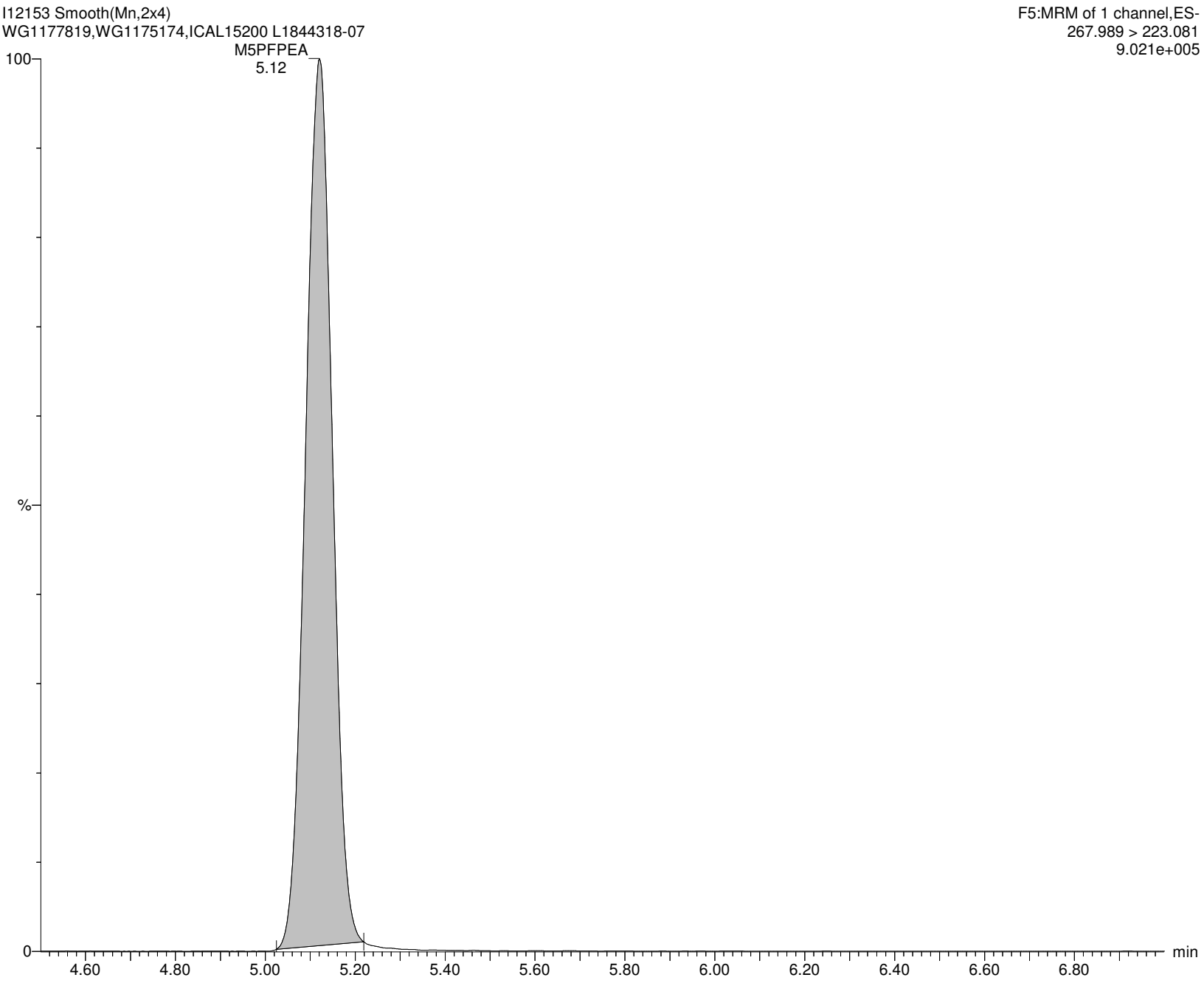
M5PFPEA



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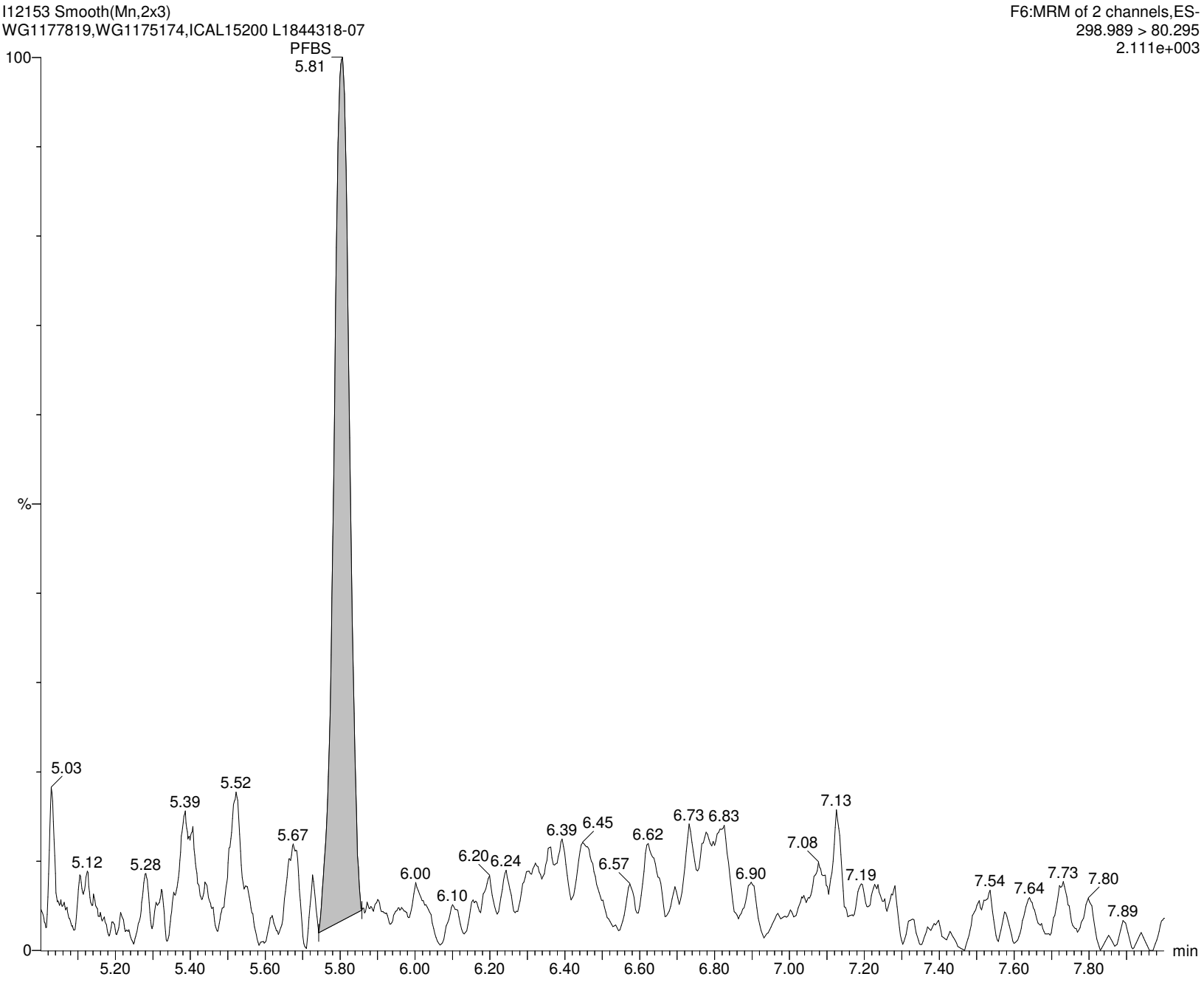
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFBS



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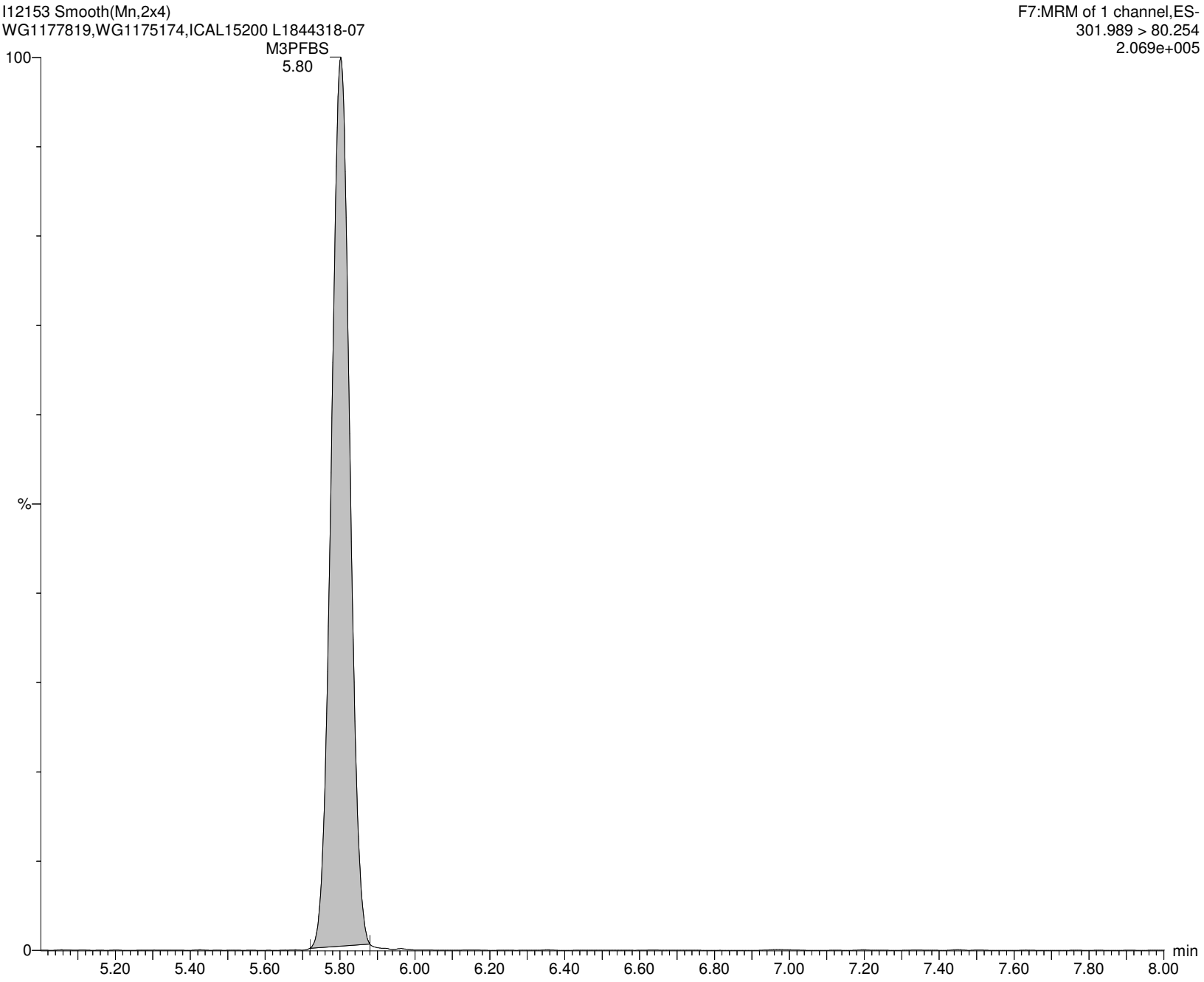
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M3PFBS



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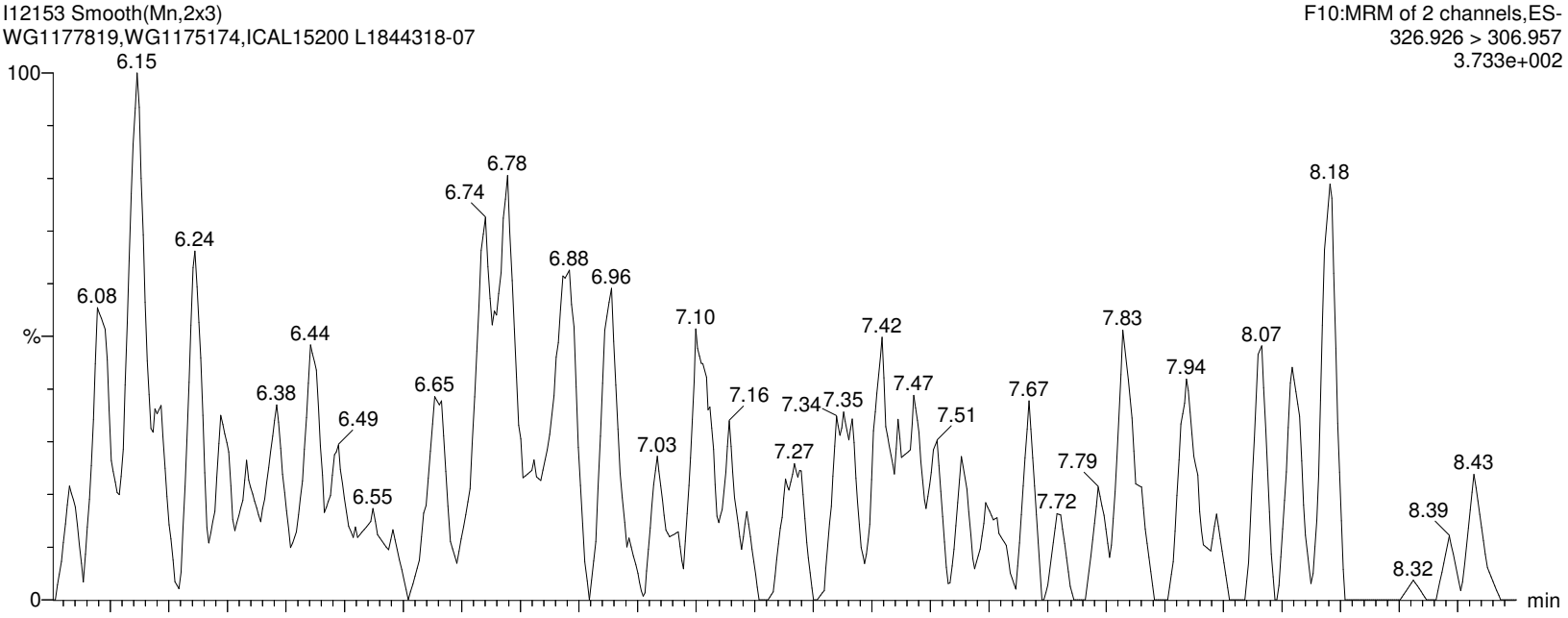
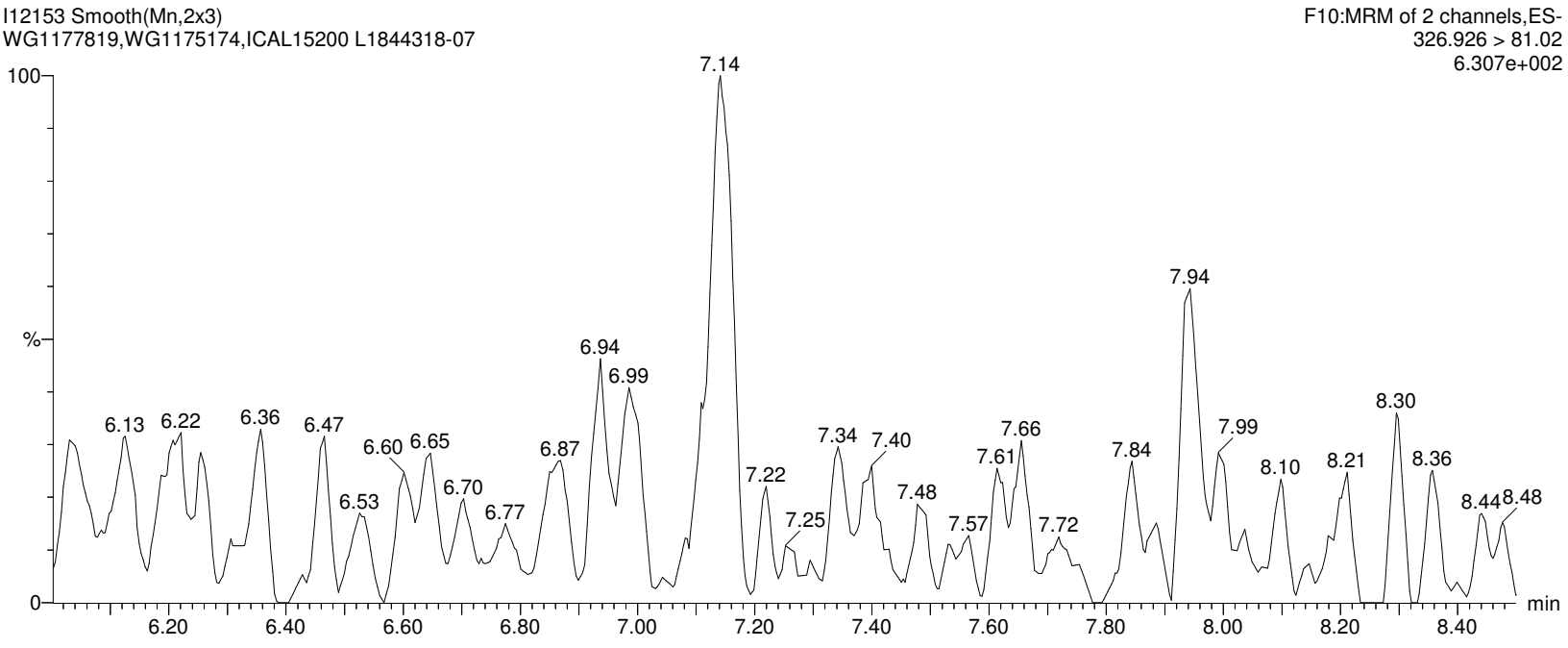
4:2FTS





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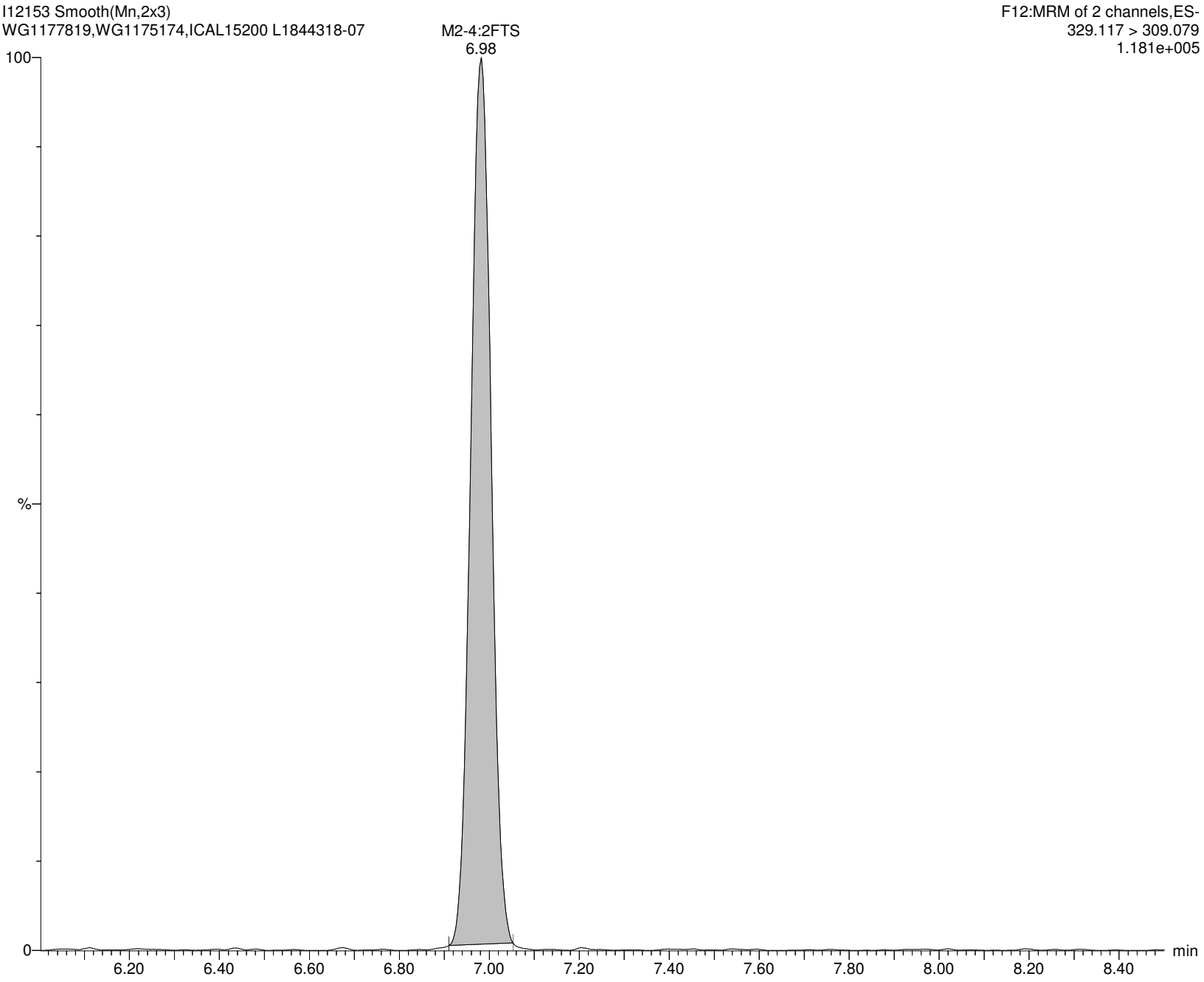
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:54 Eastern Standard Time

Name: I12153
ID: L1844318-07
Date: 10-Nov-2018
Time: 07:08:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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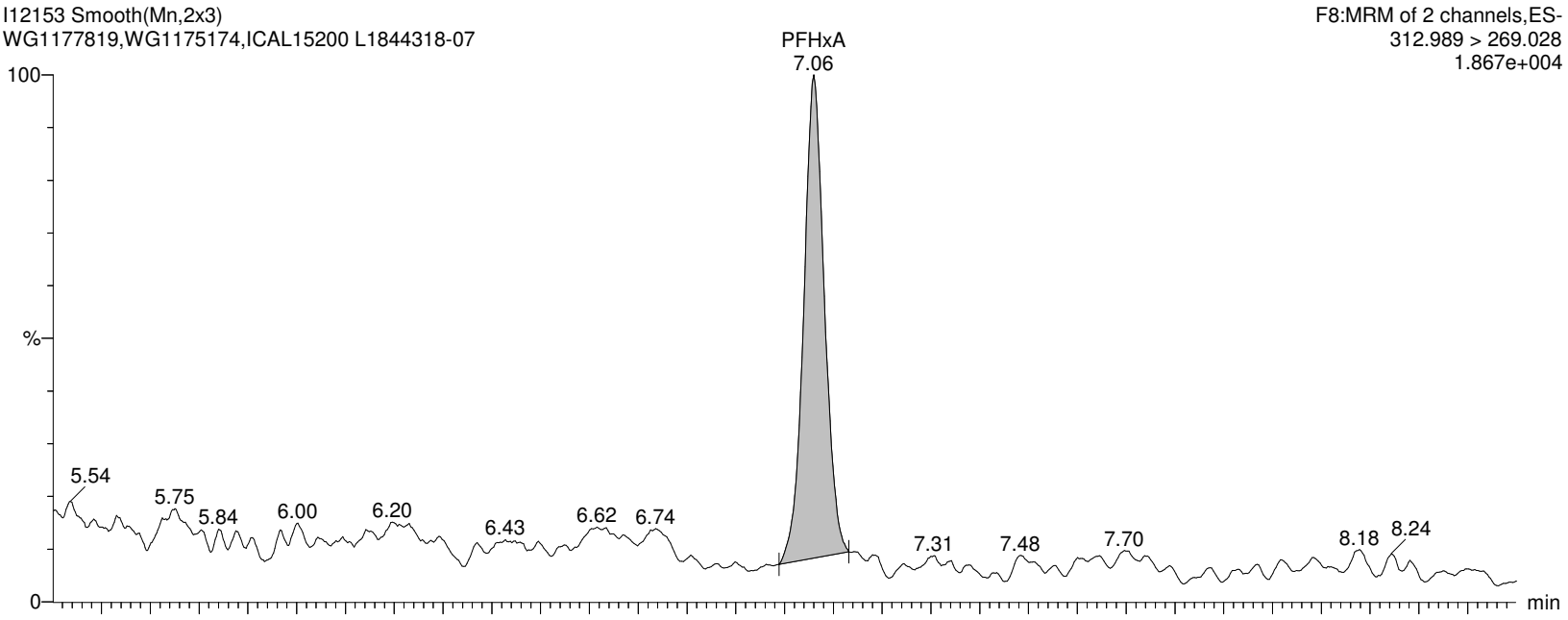

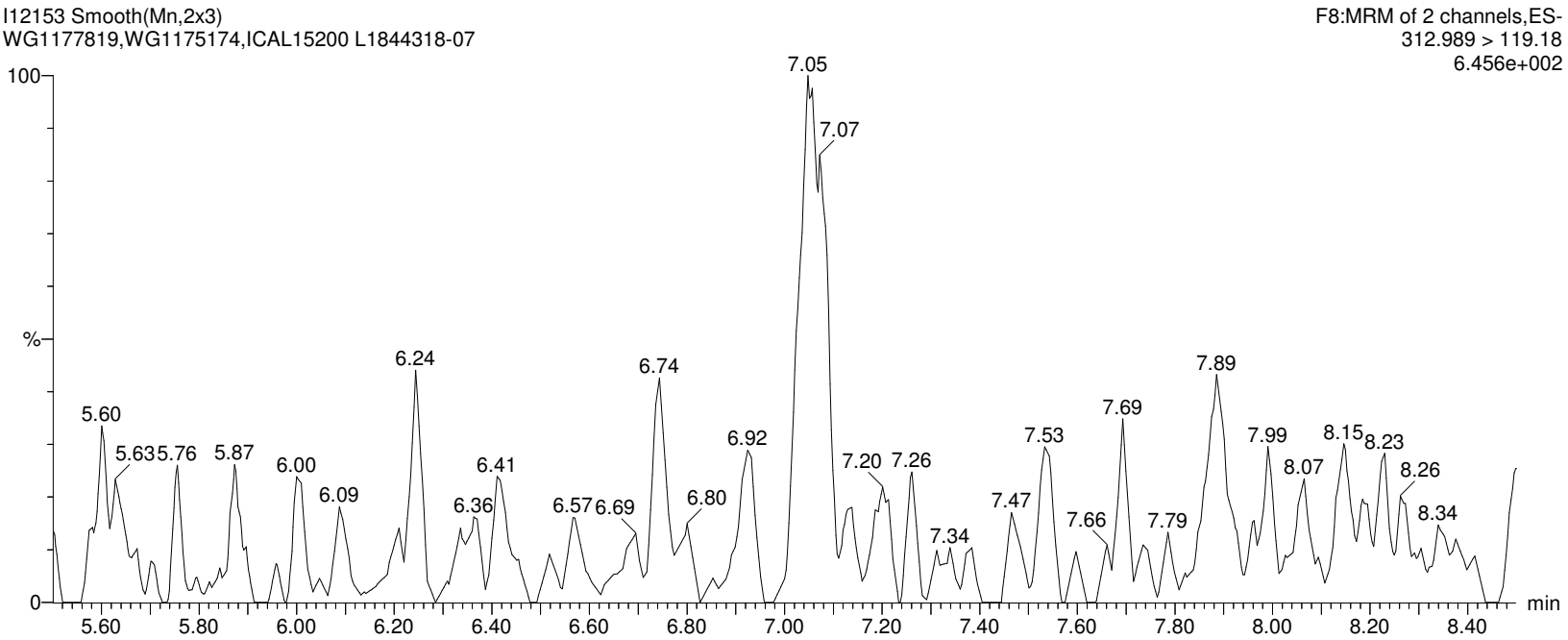

all concentration units in (ng/mL)

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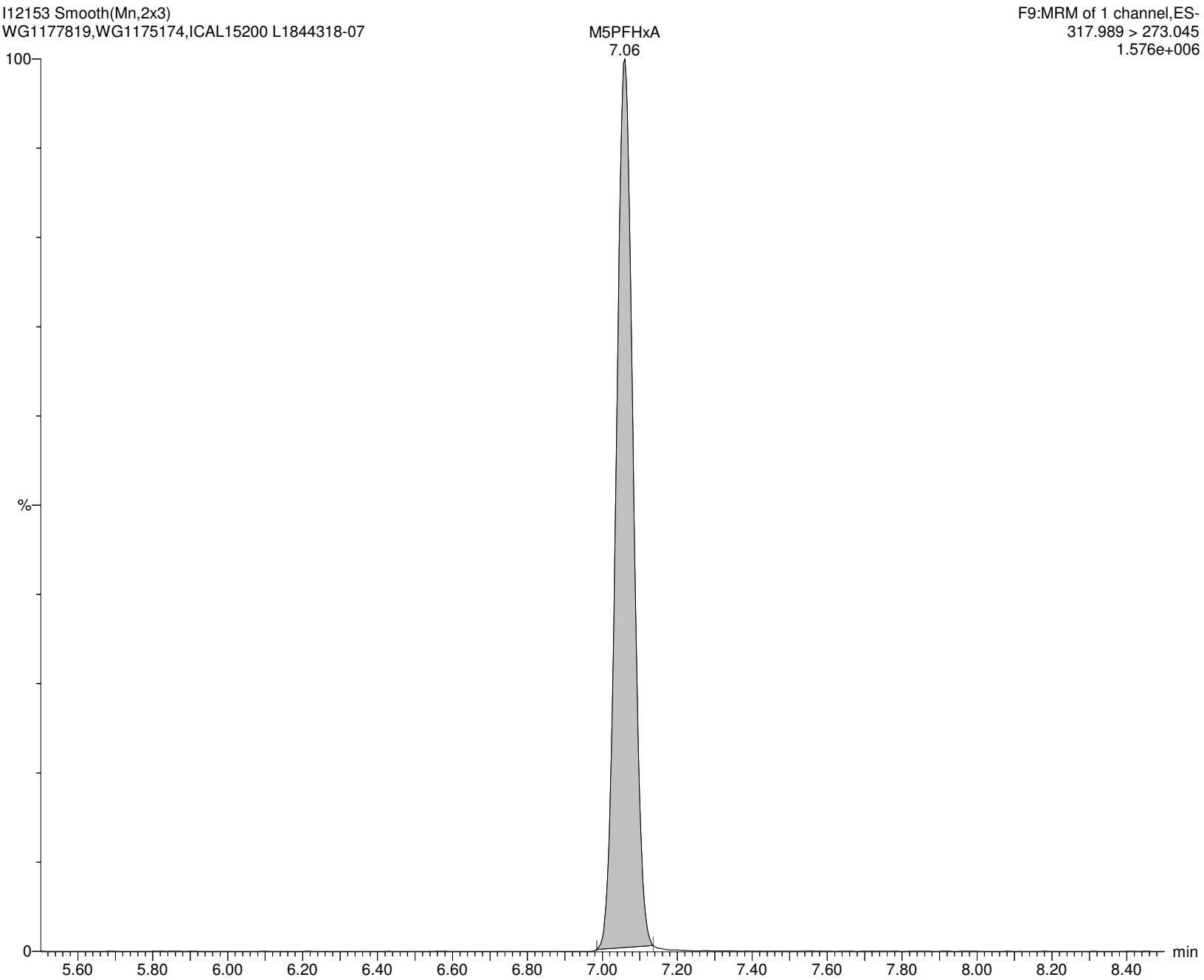

all concentration units in (ng/mL)

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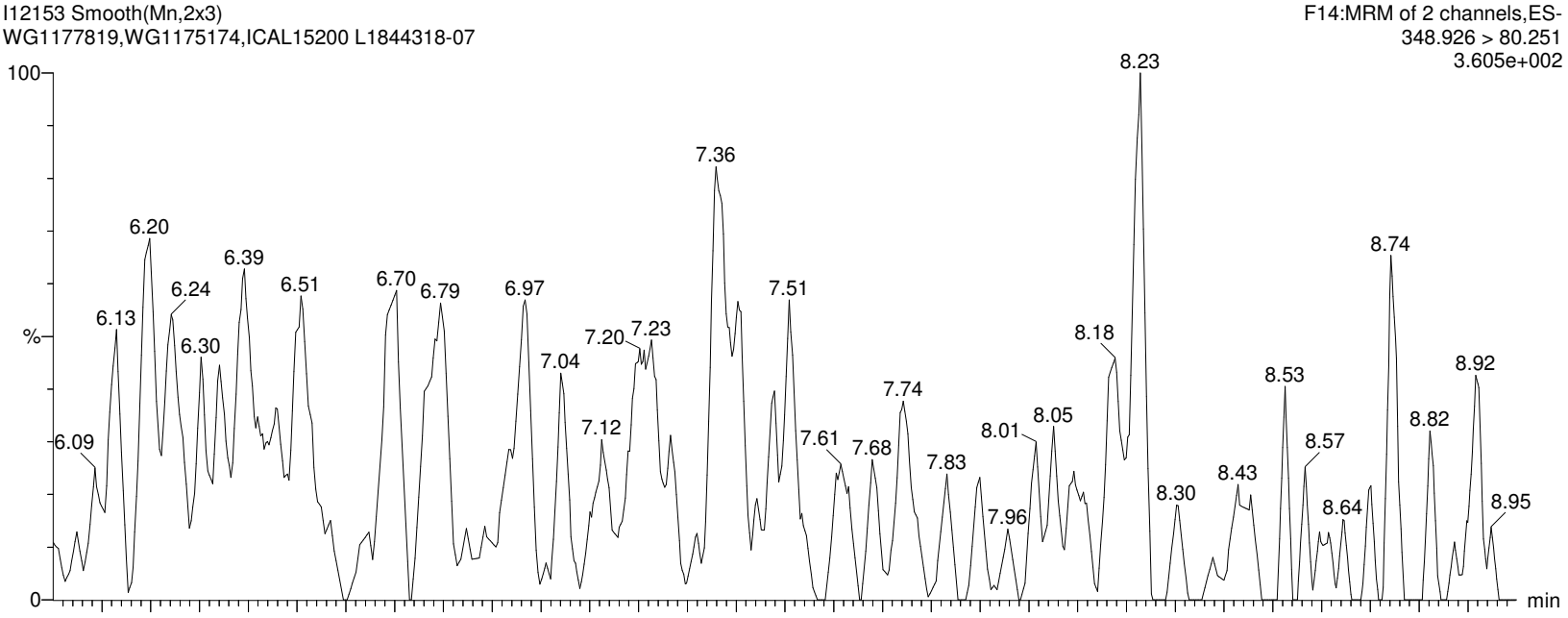

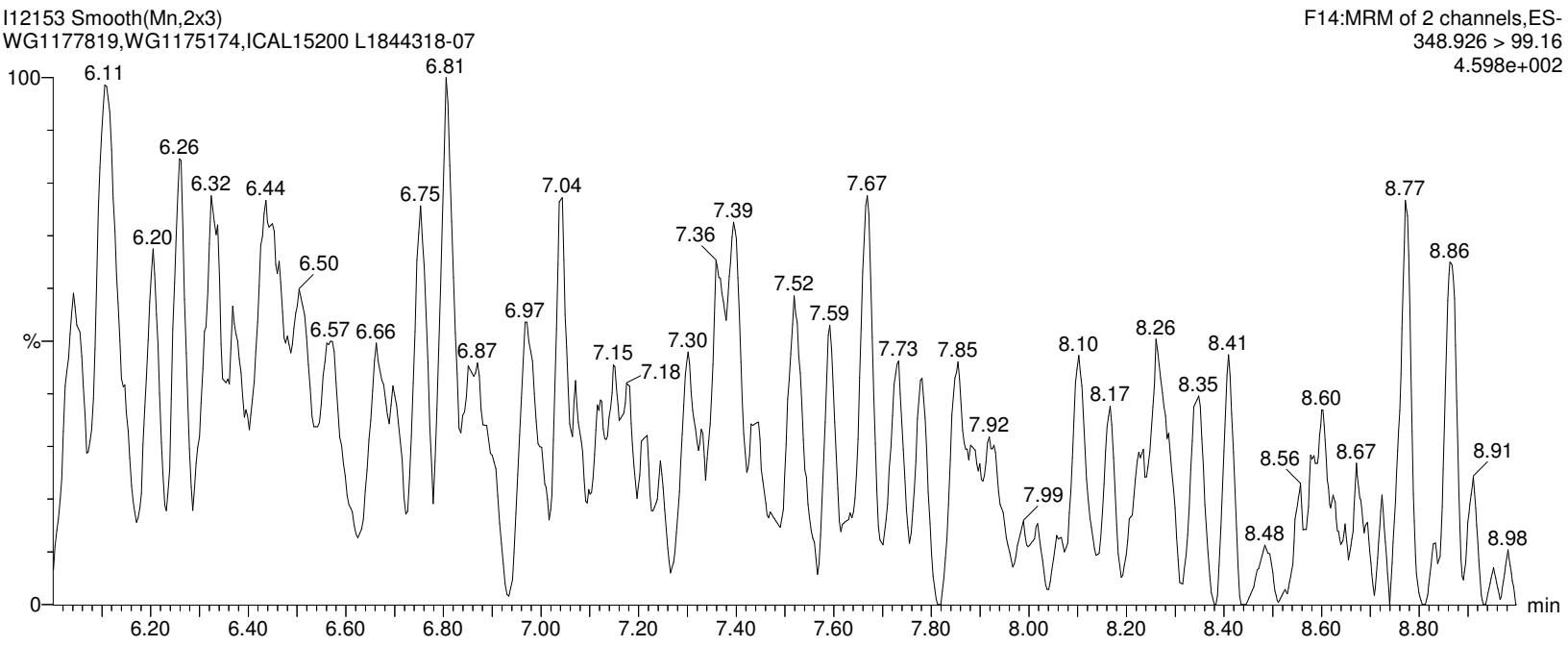

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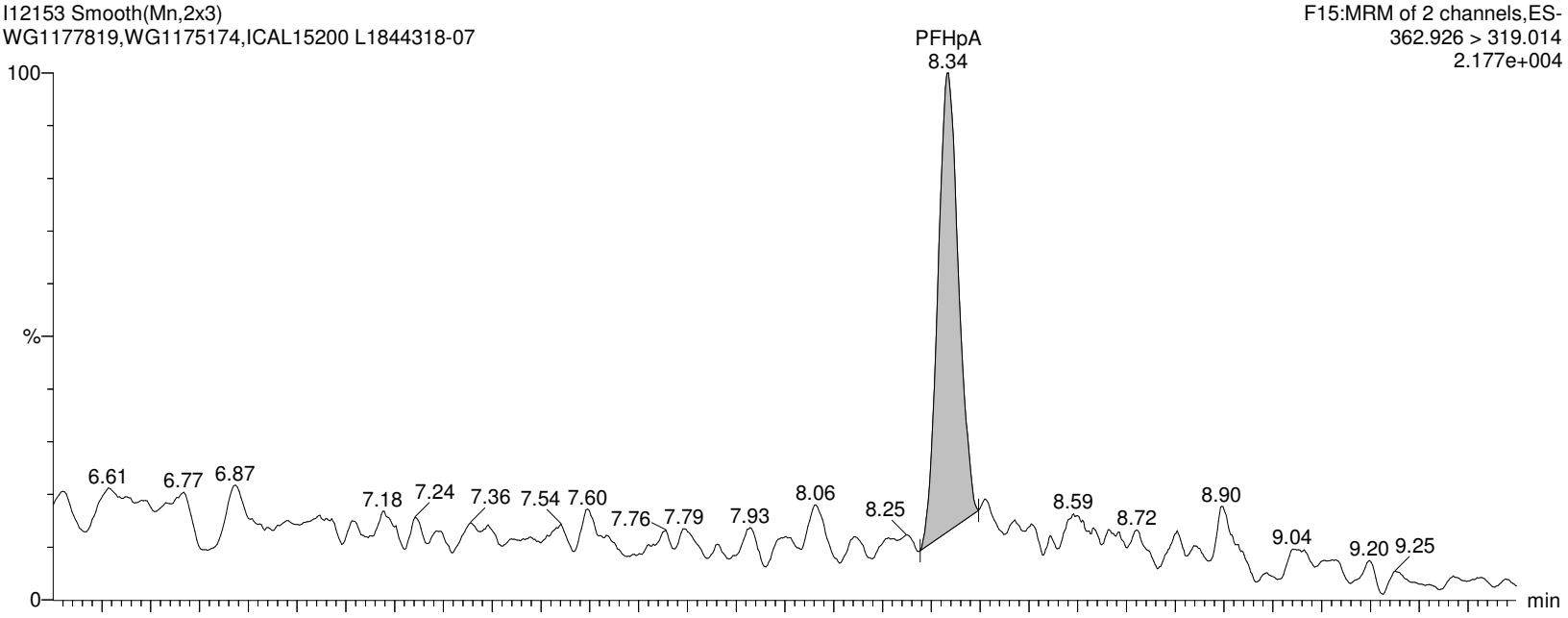

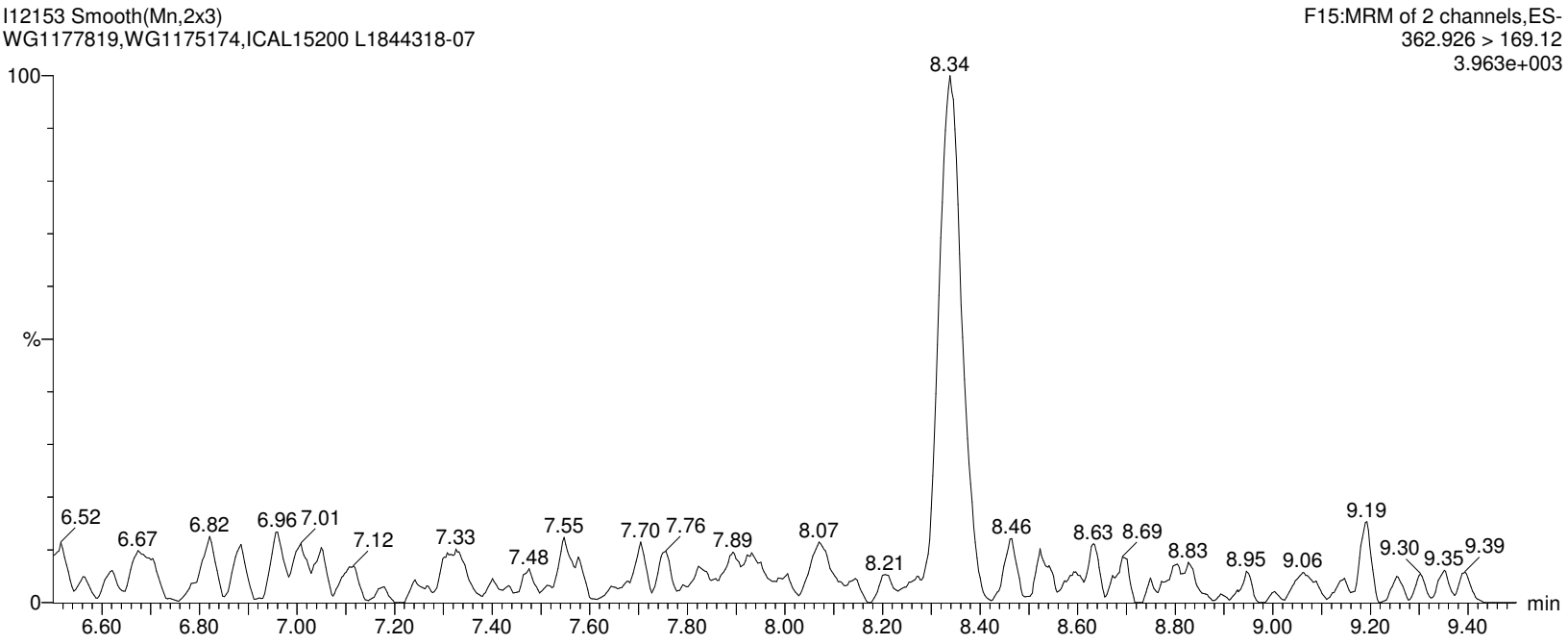

all concentration units in (ng/mL)

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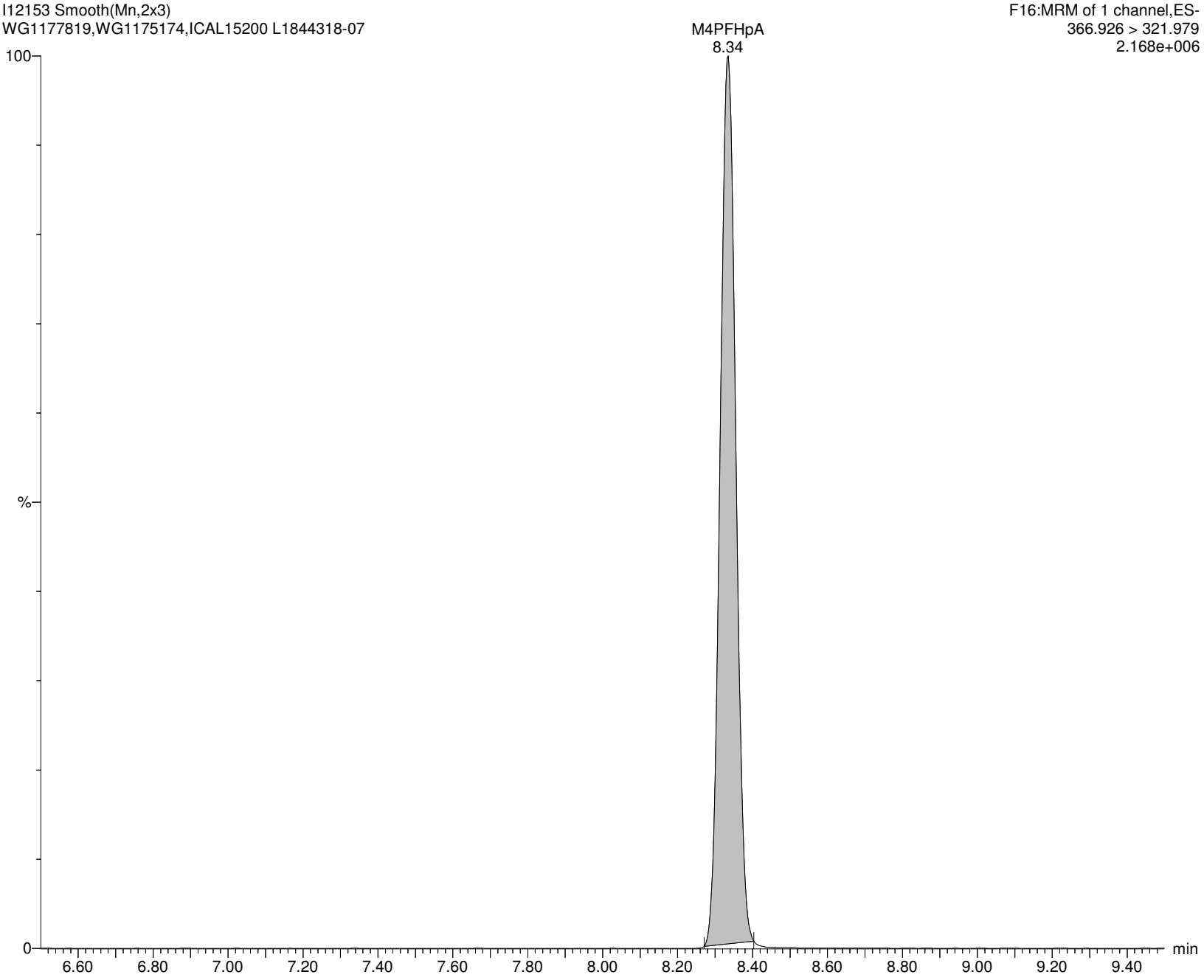

all concentration units in (ng/mL)

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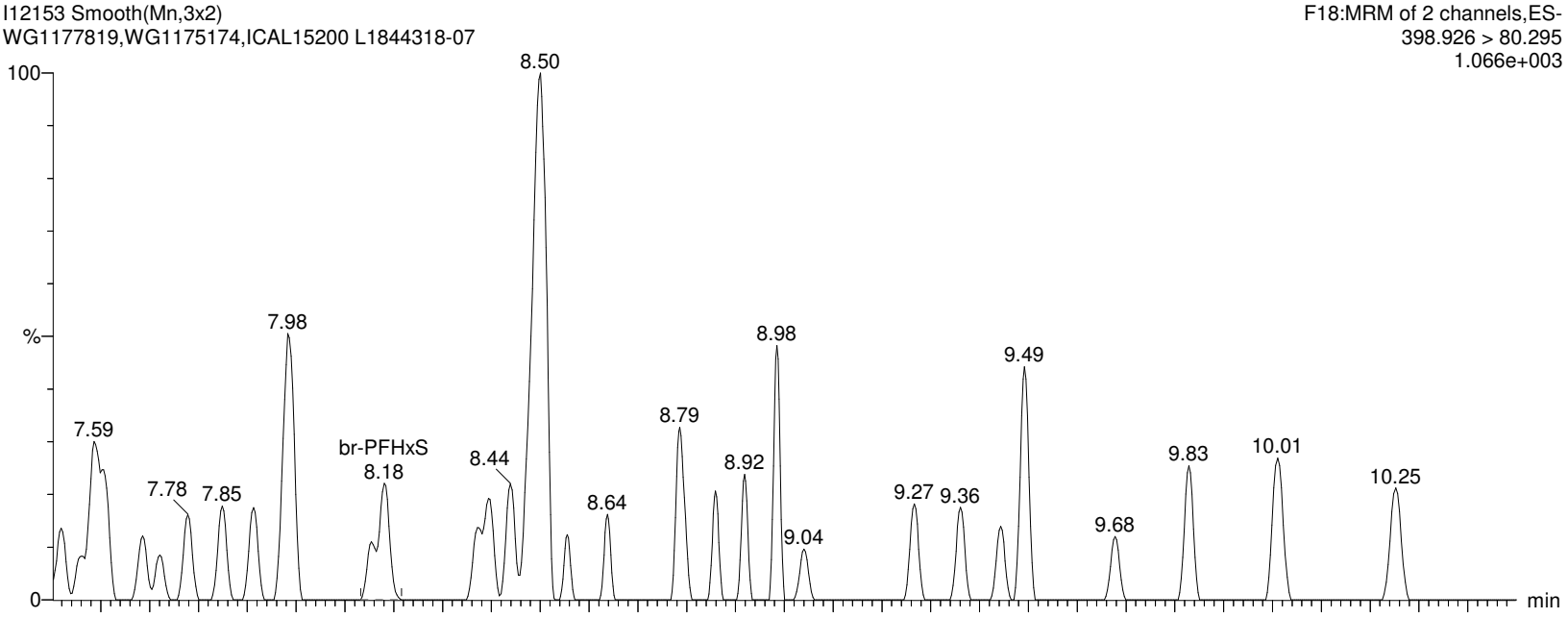

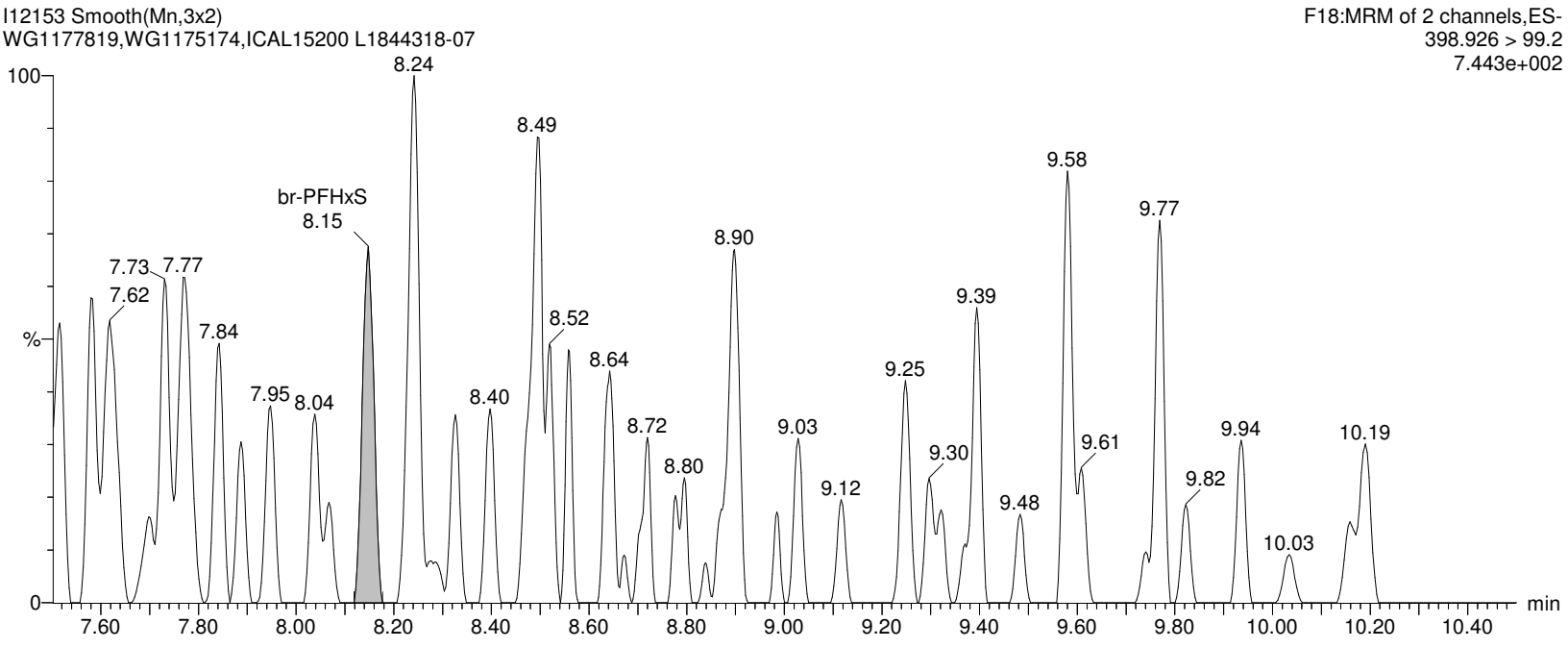

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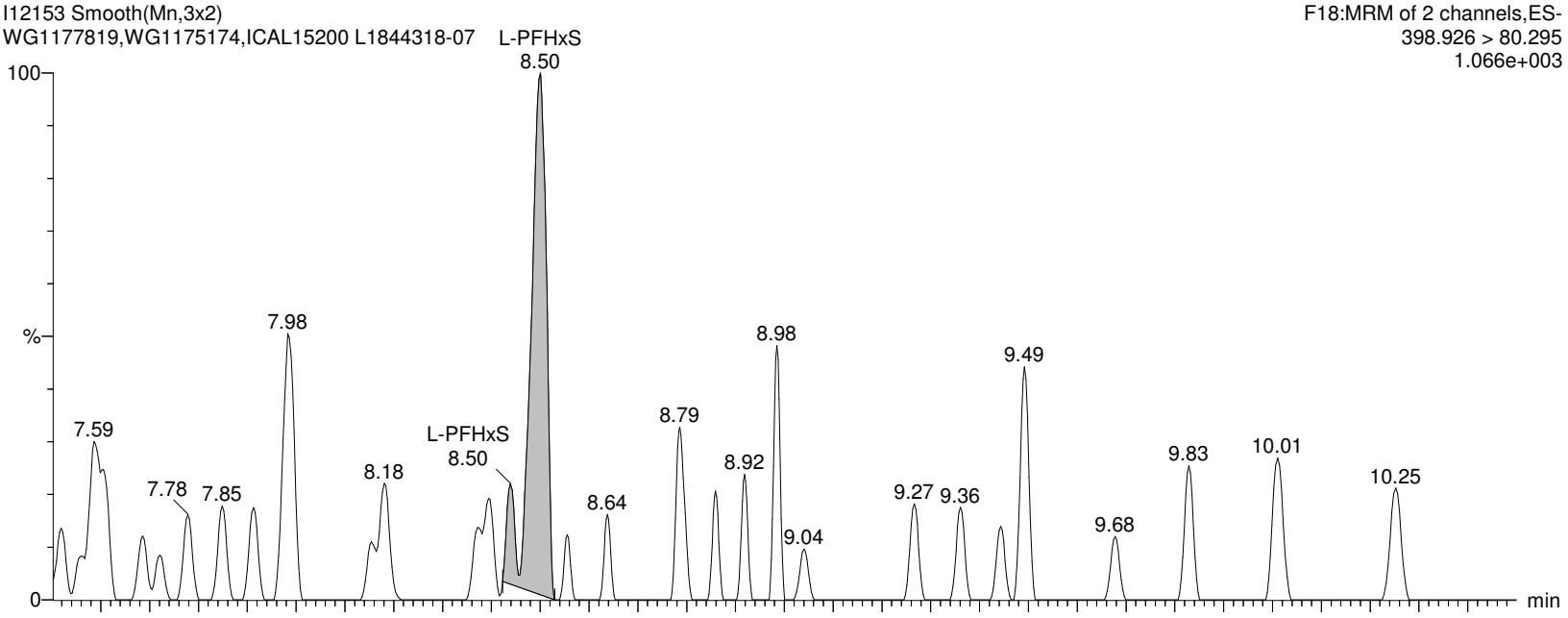

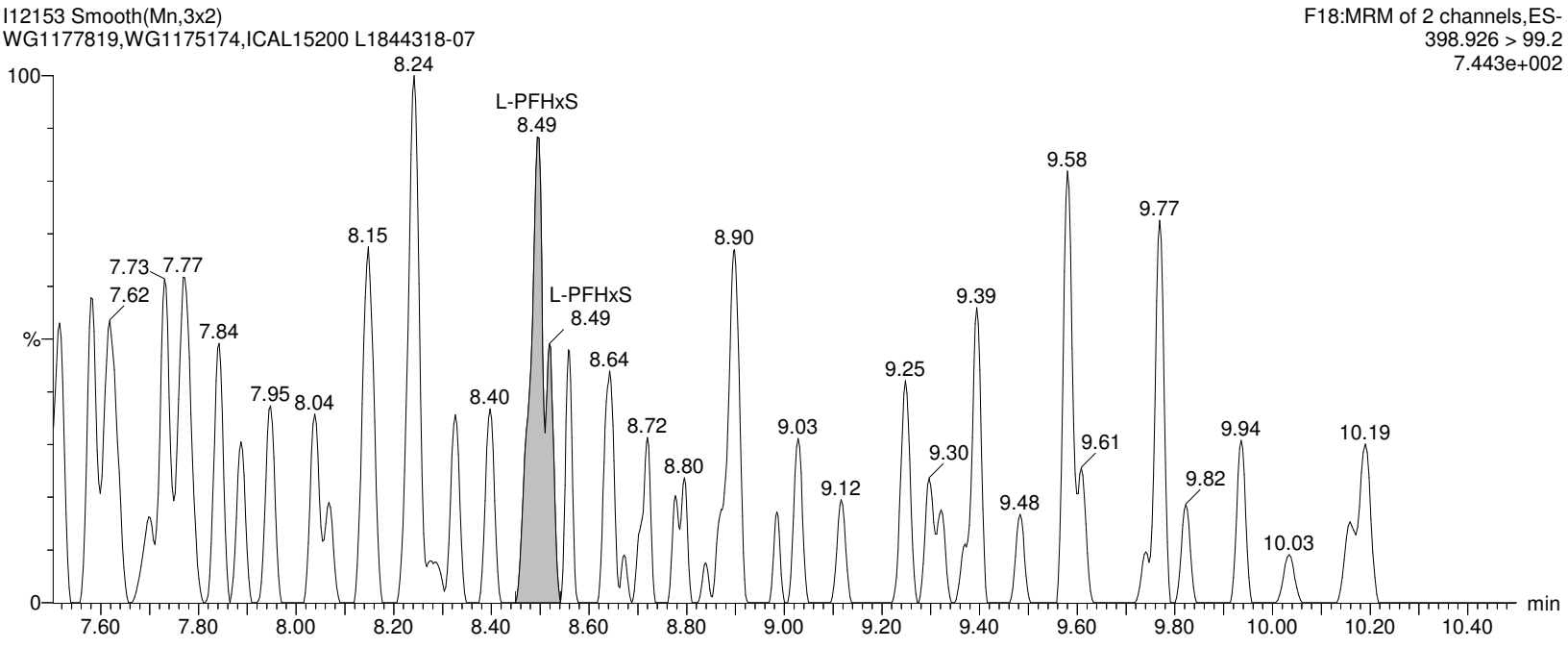

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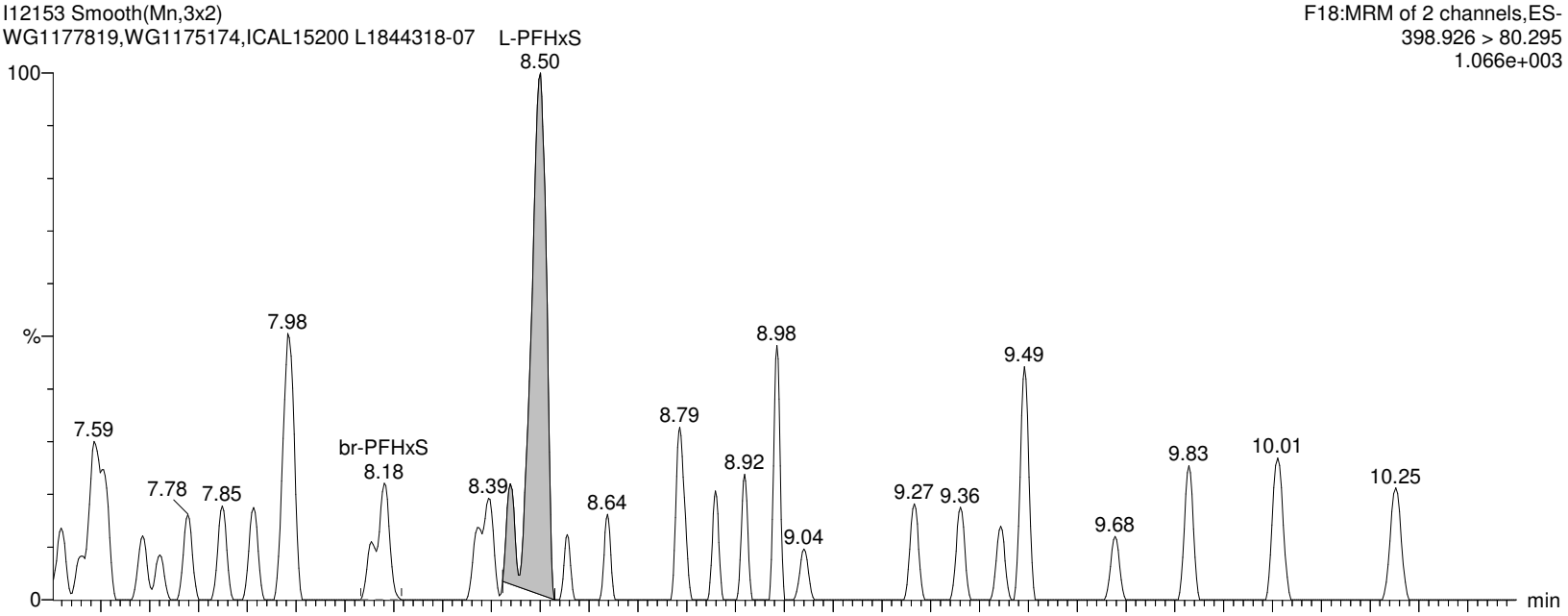

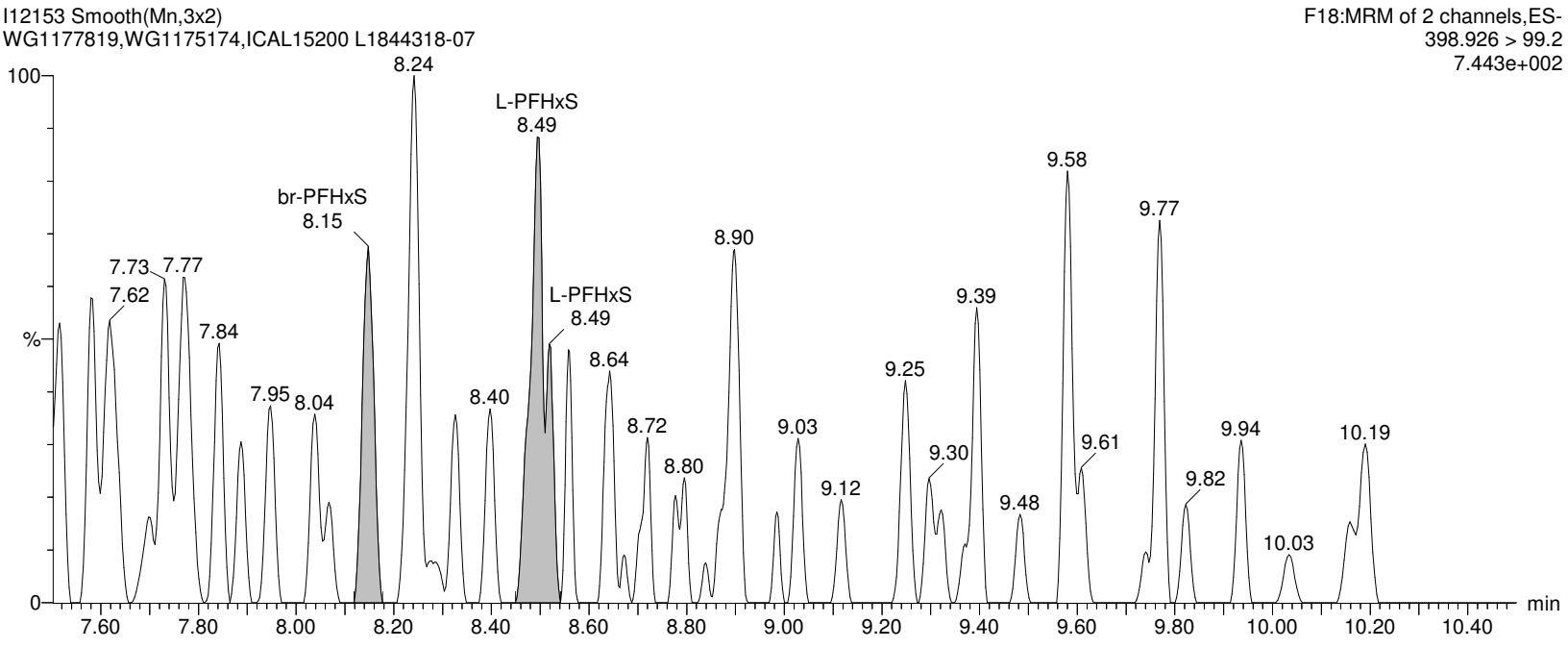

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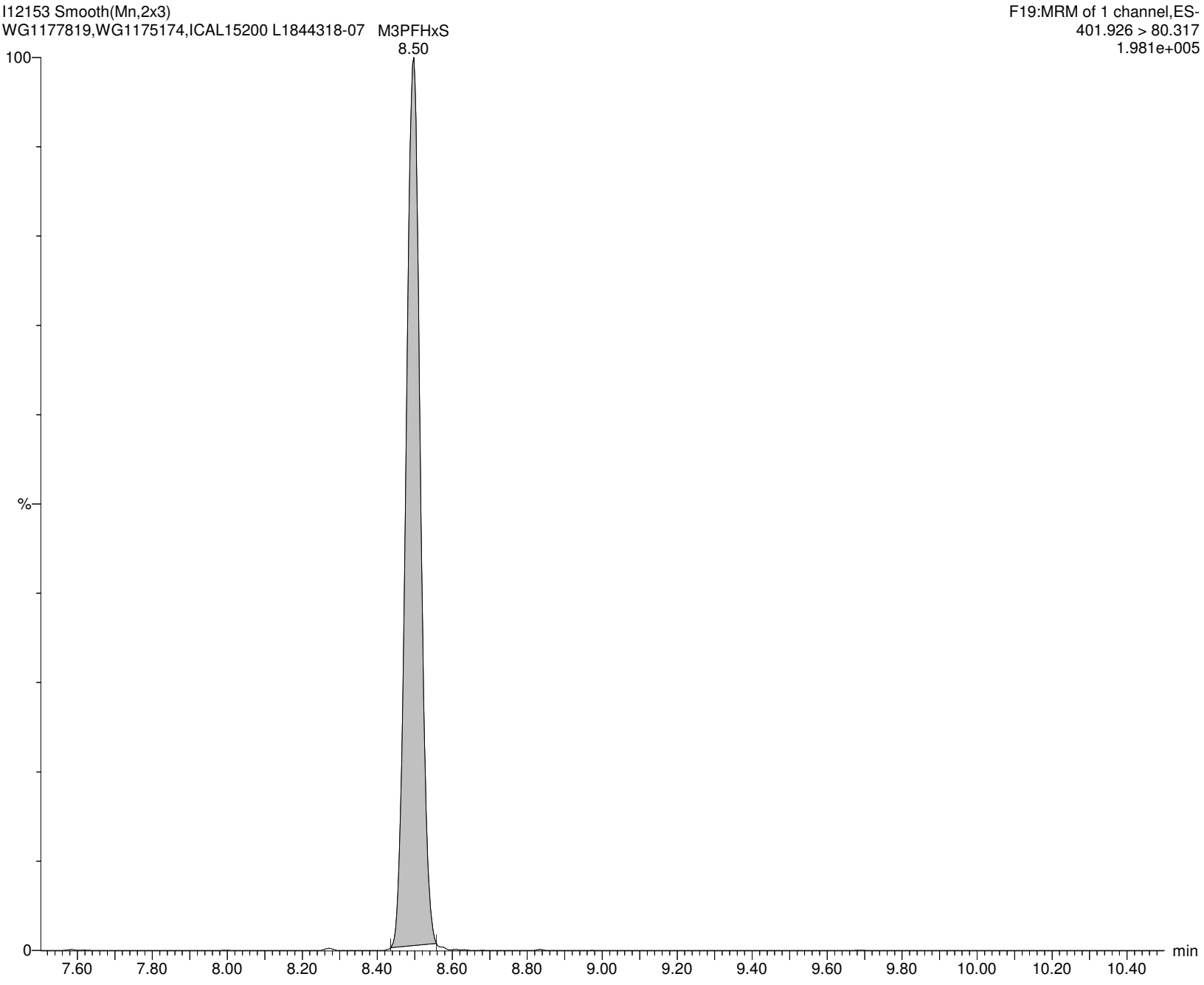

all concentration units in (ng/mL)

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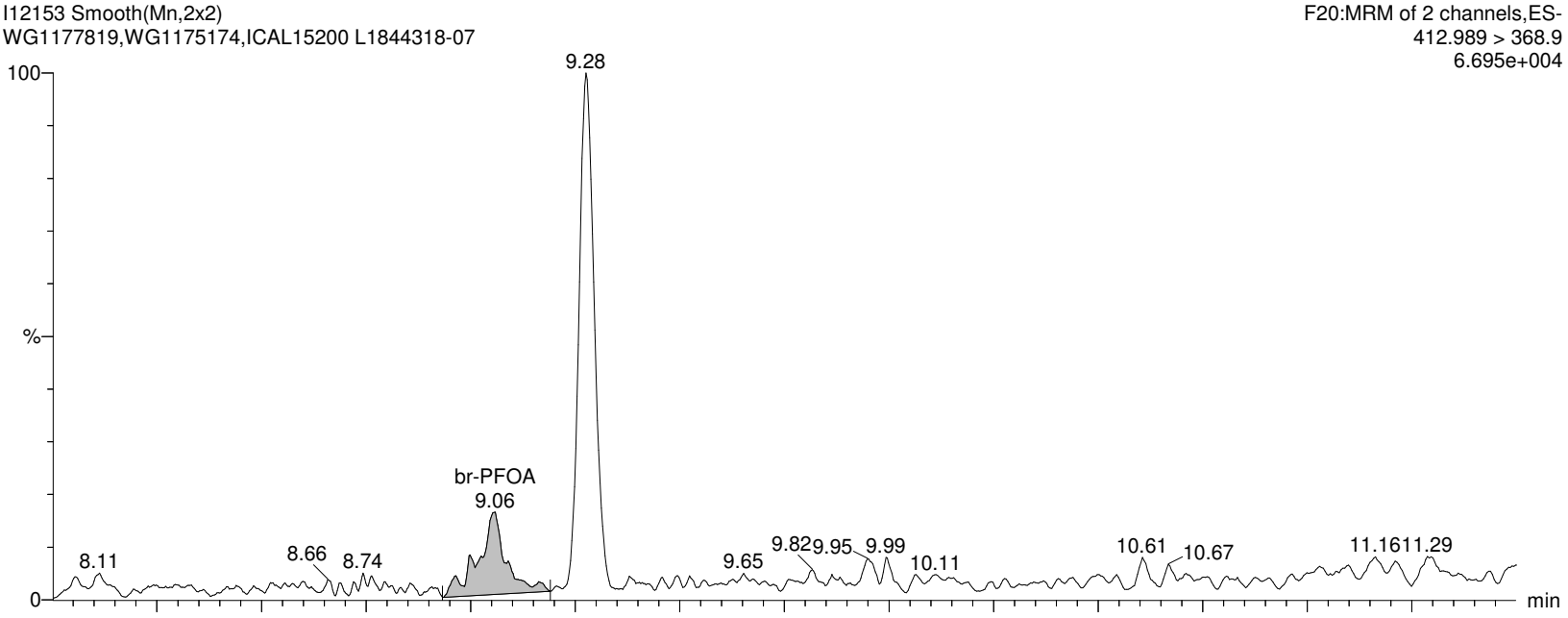

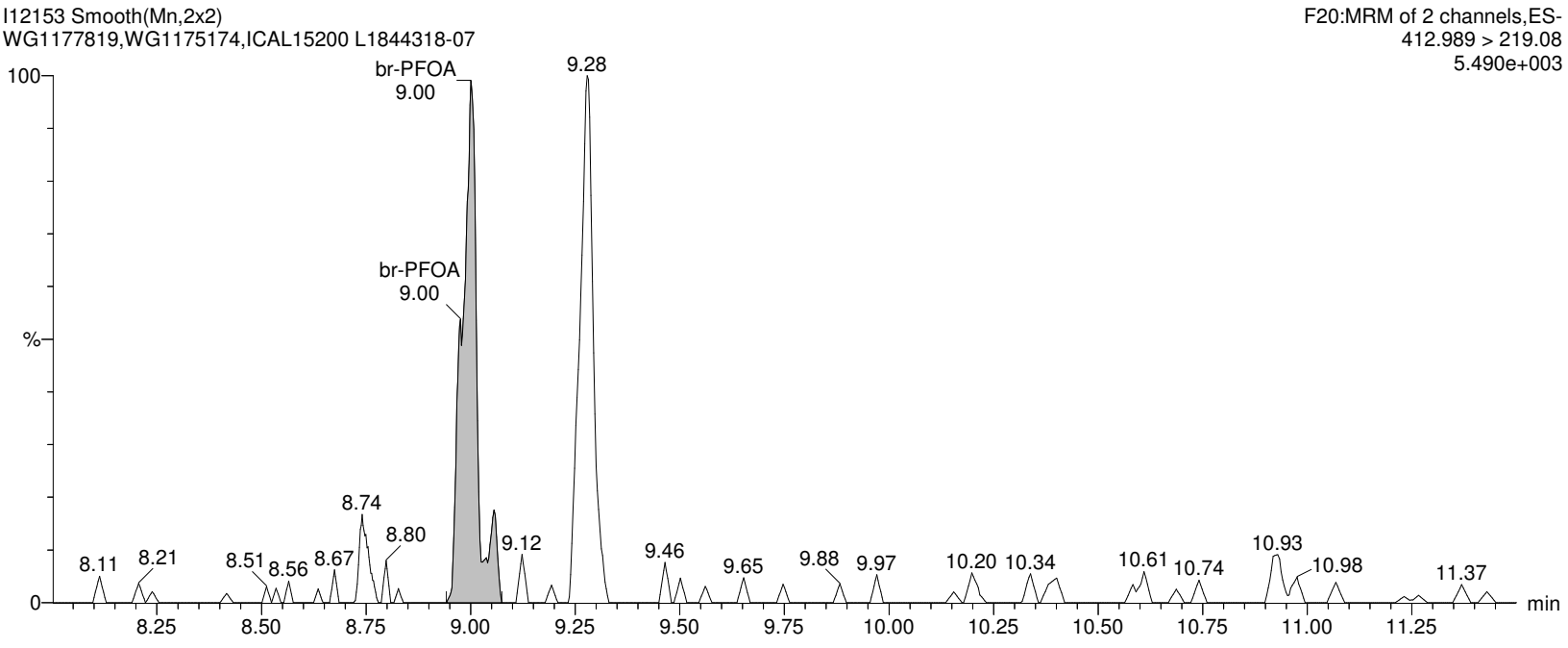

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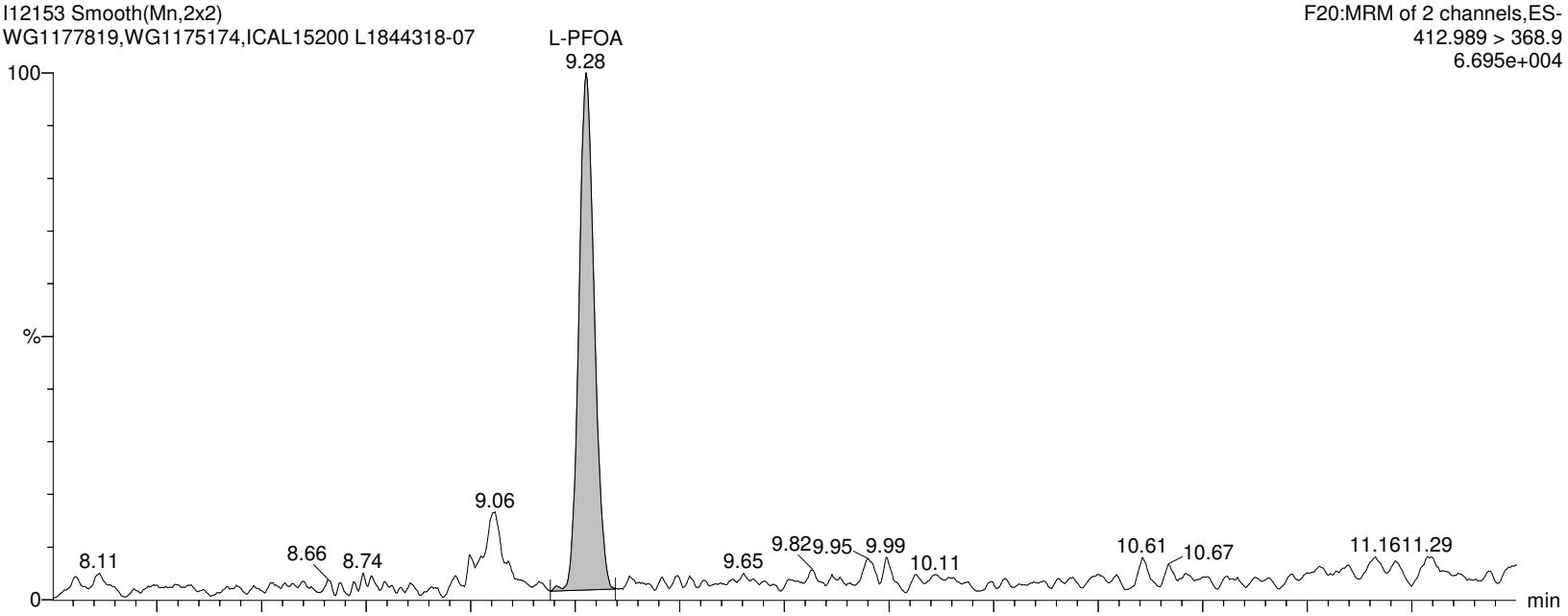

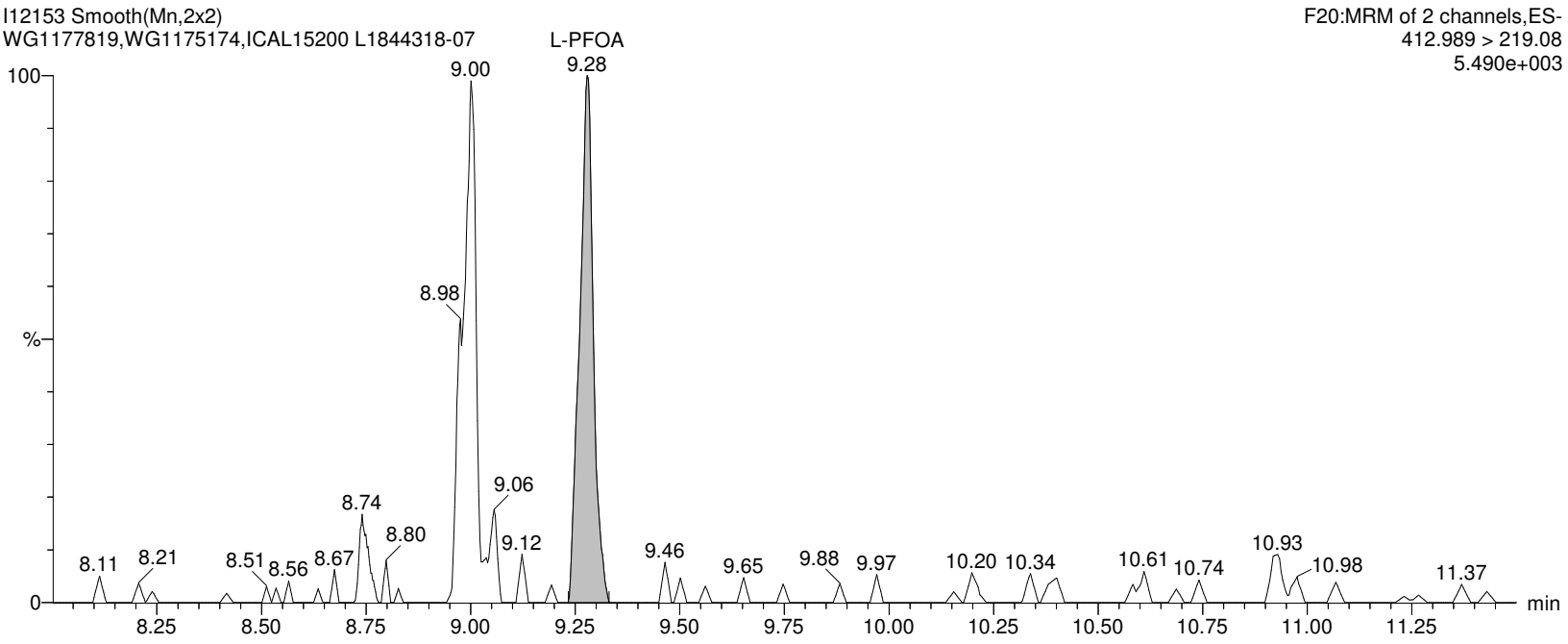

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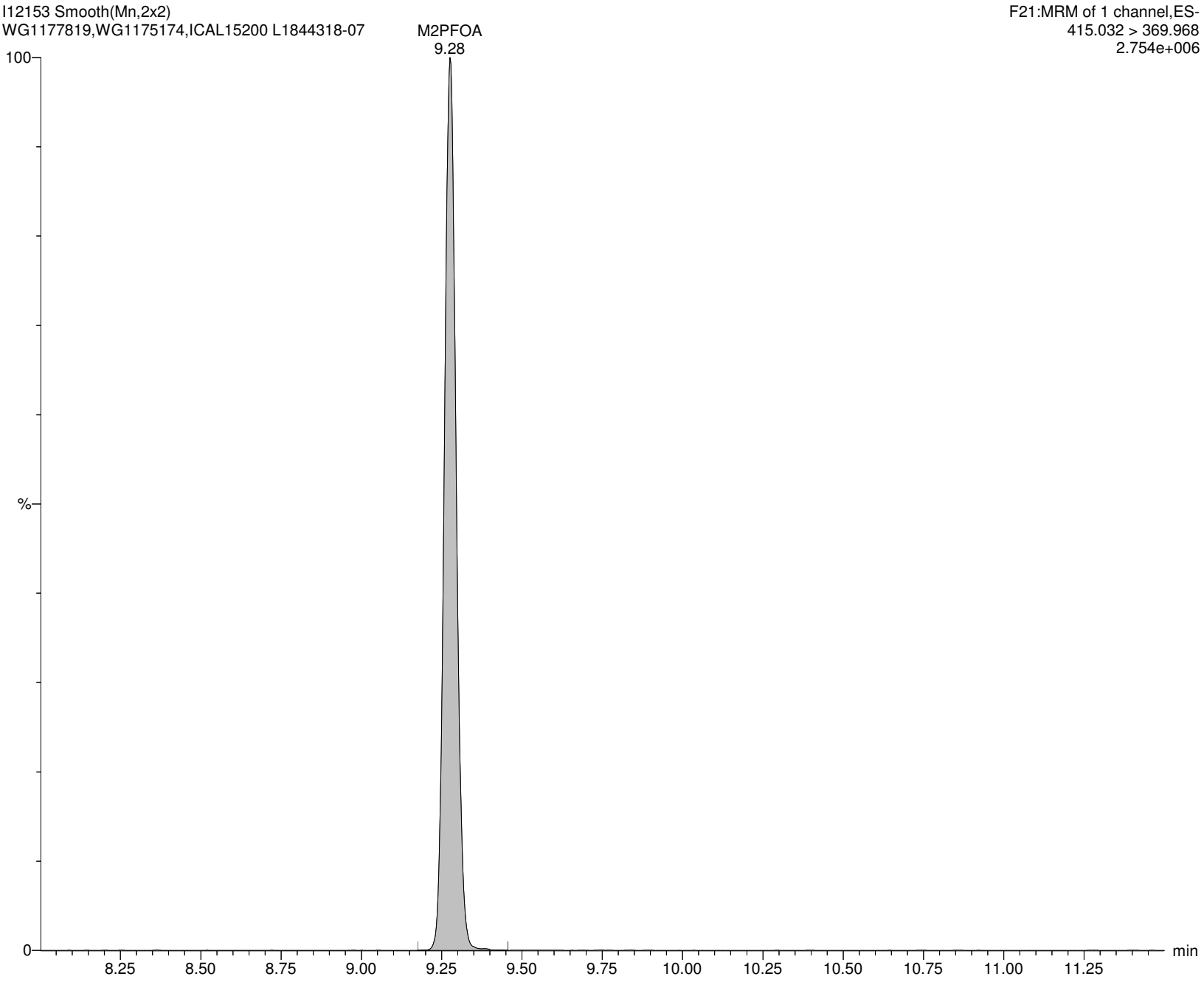

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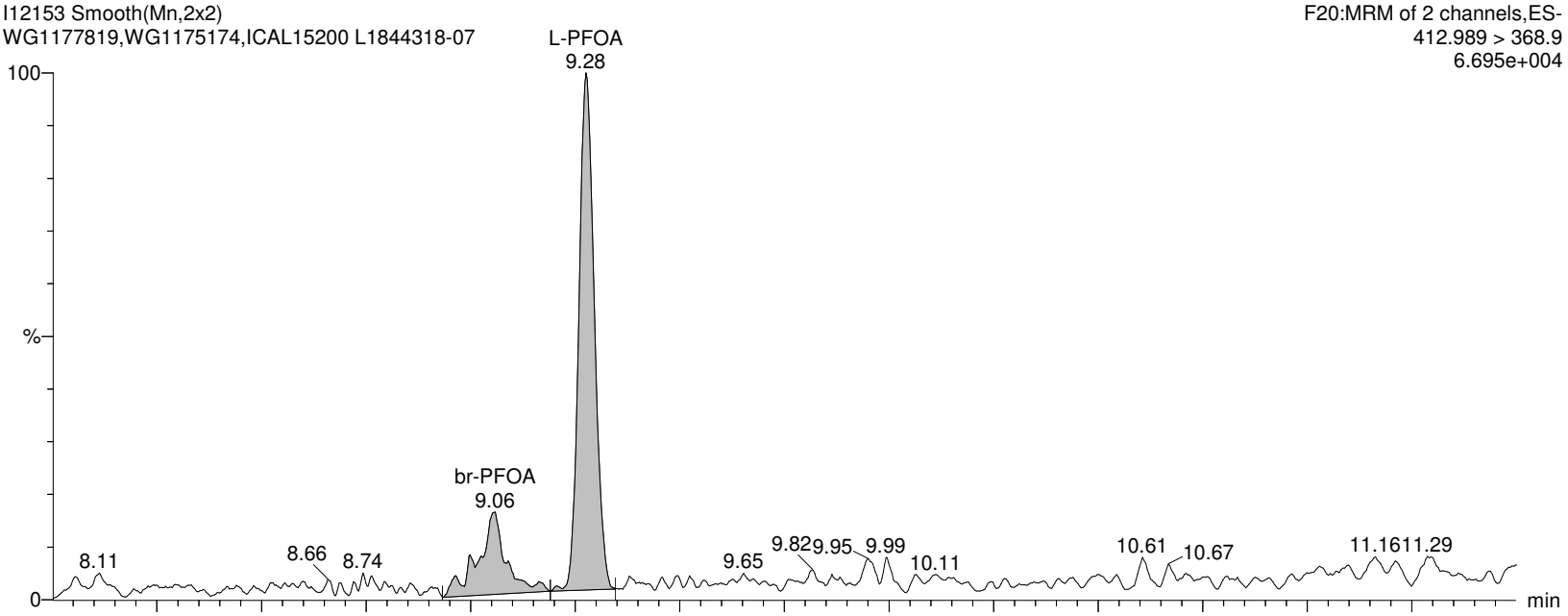

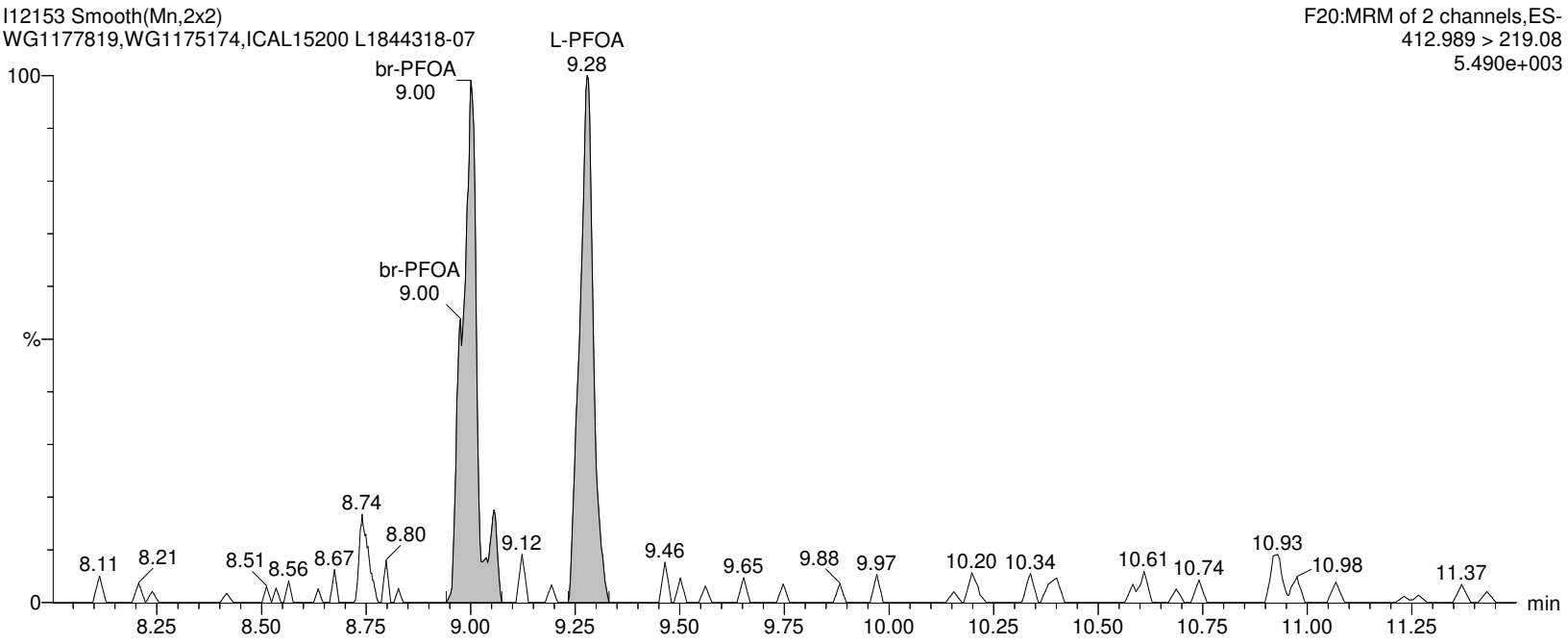

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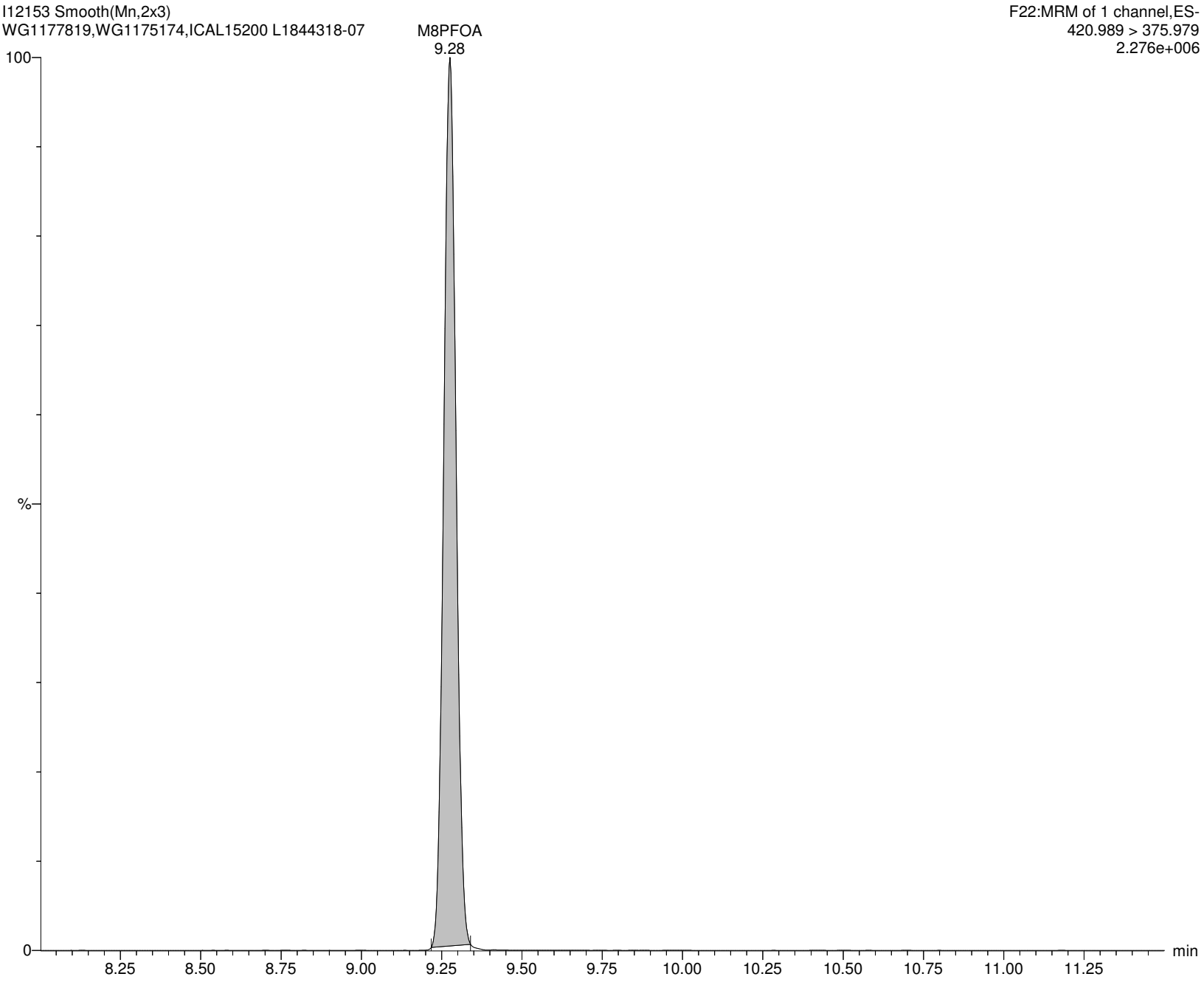

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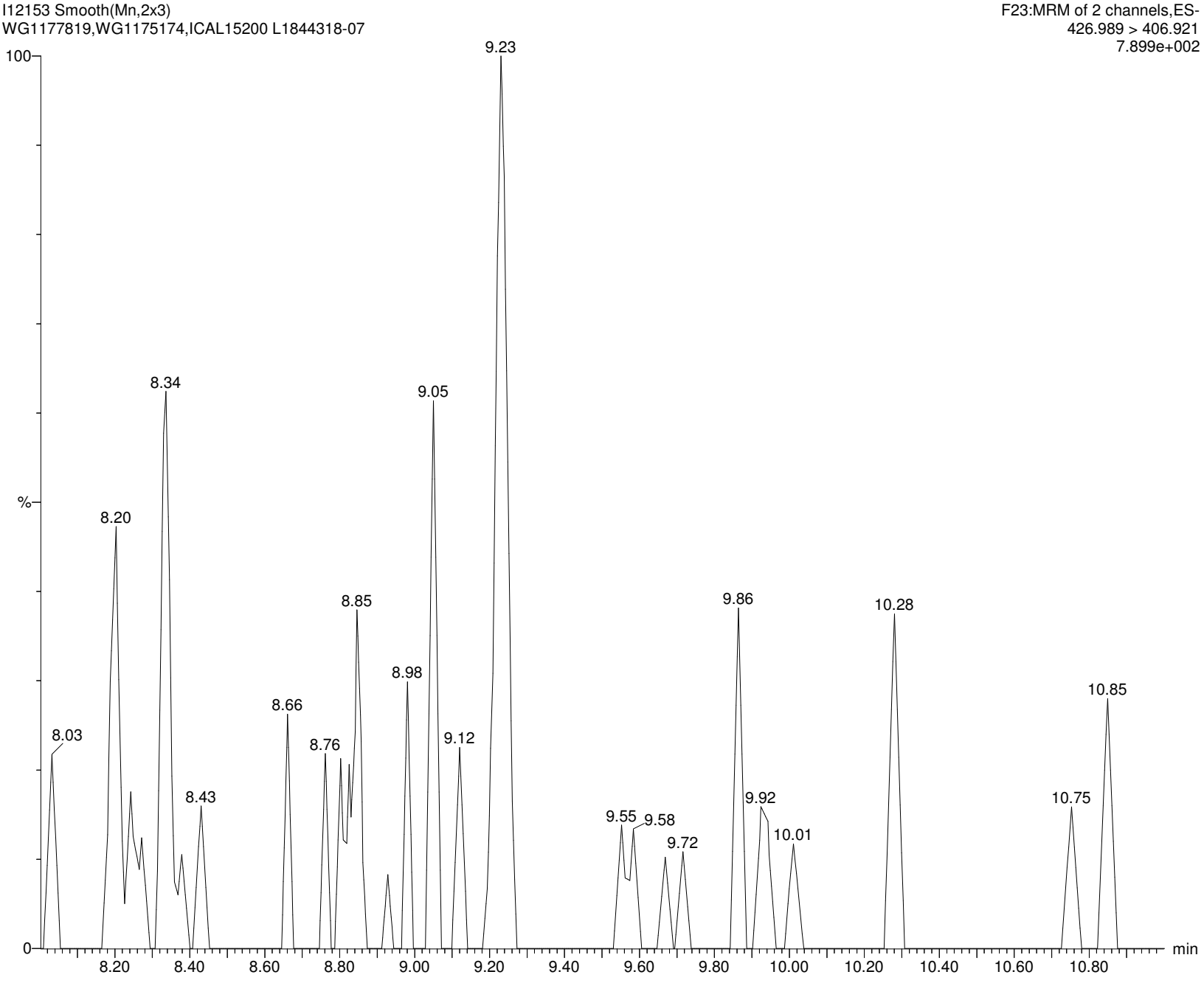
6:2FTS



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ID: L1844318-07
Date: 10-Nov-2018
Time: 07:08:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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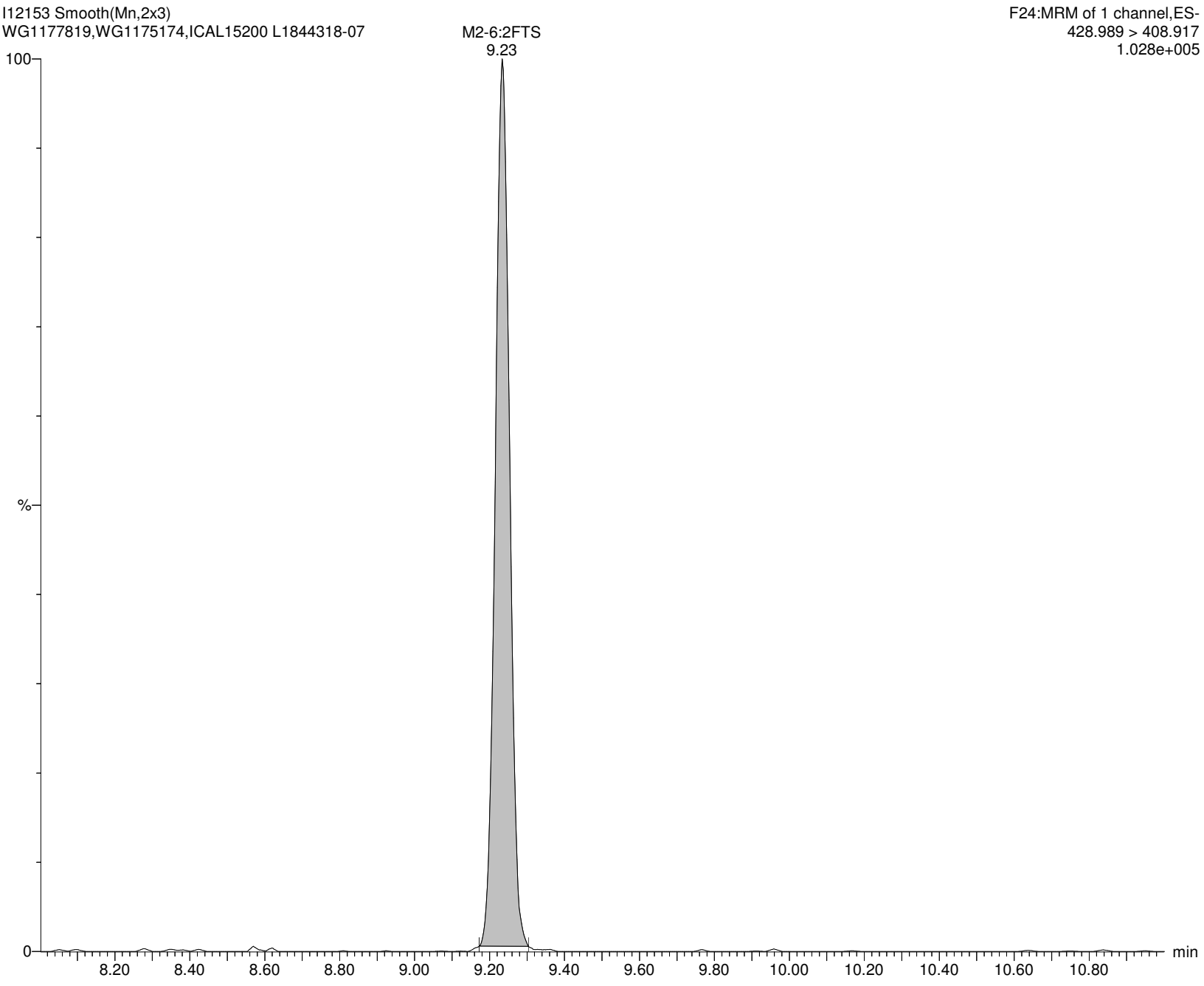

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:54 Eastern Standard Time

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Date: 10-Nov-2018
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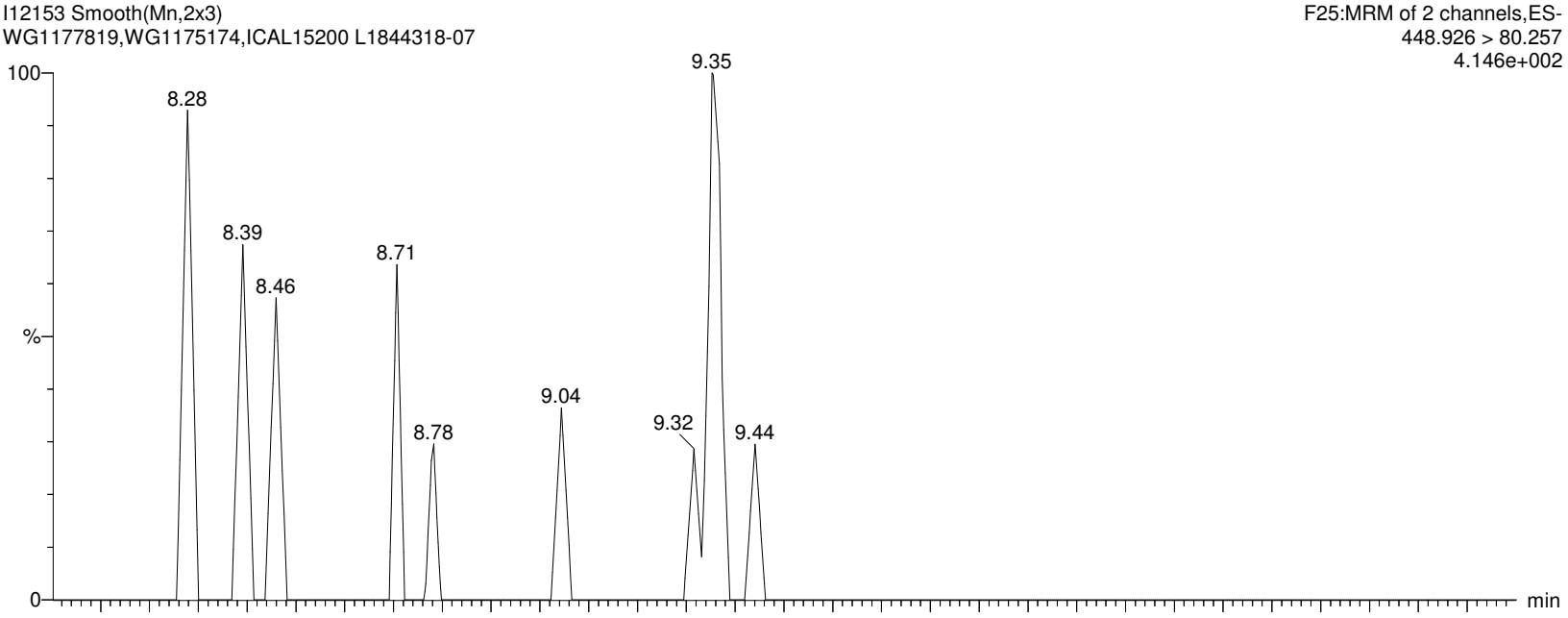

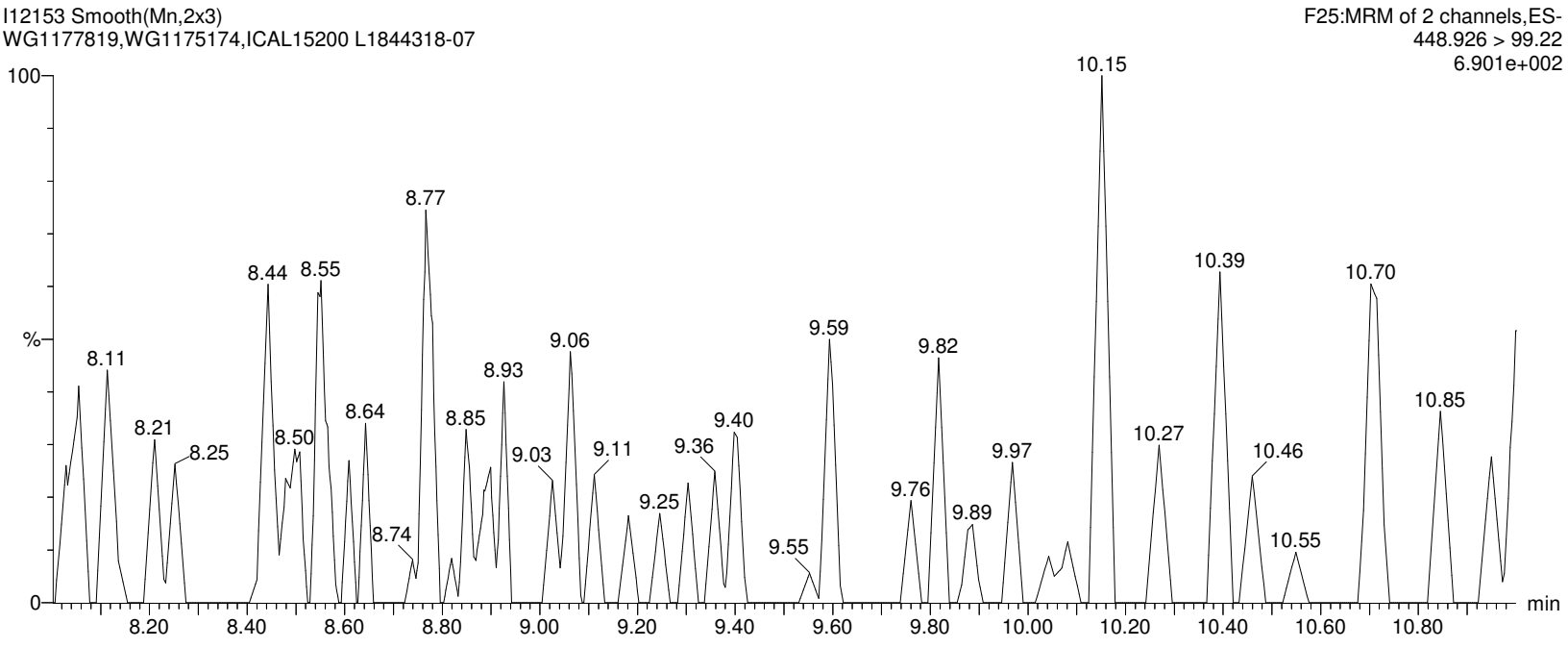

all concentration units in (ng/mL)

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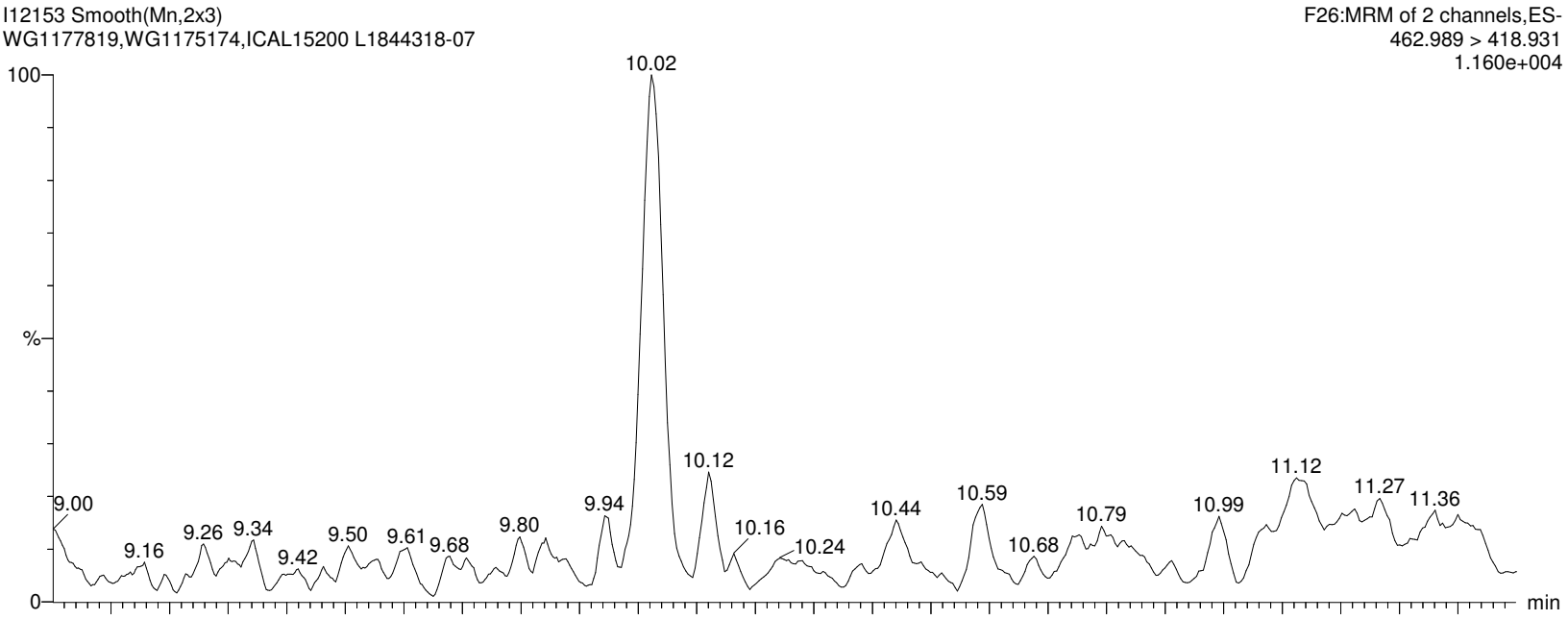

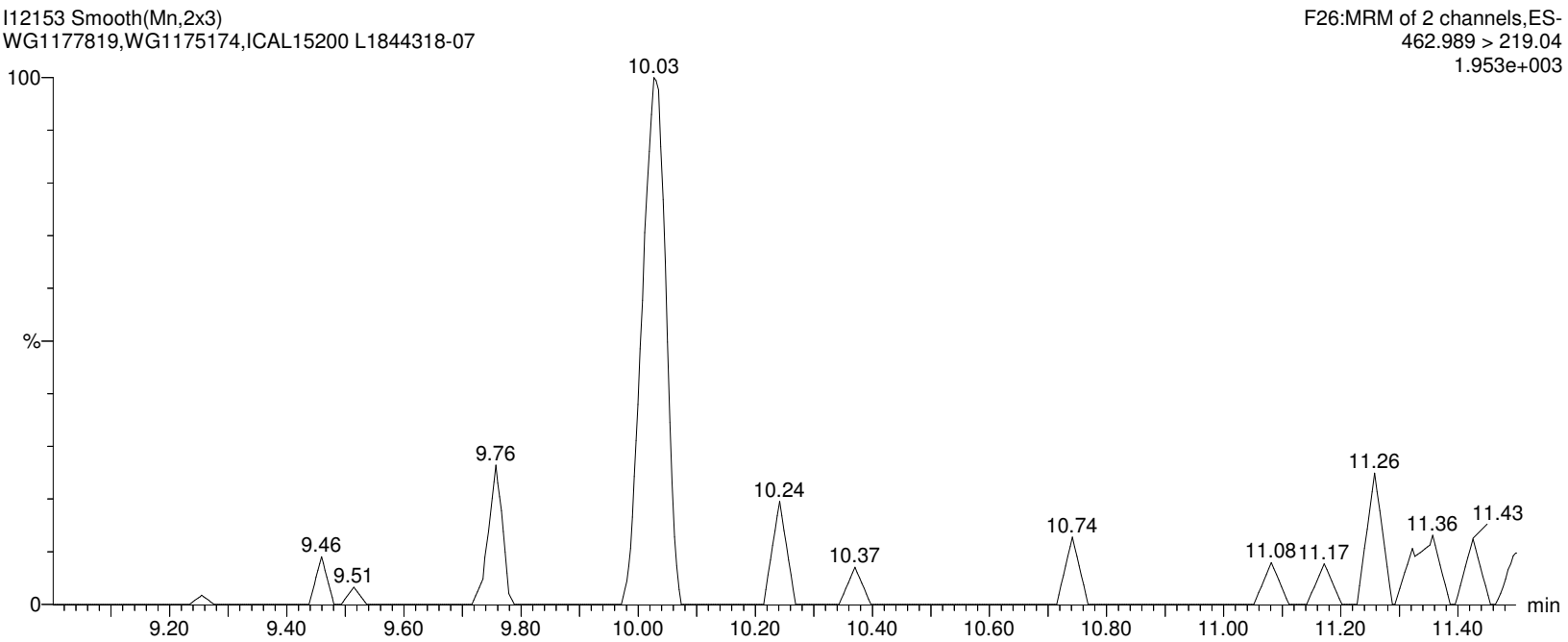

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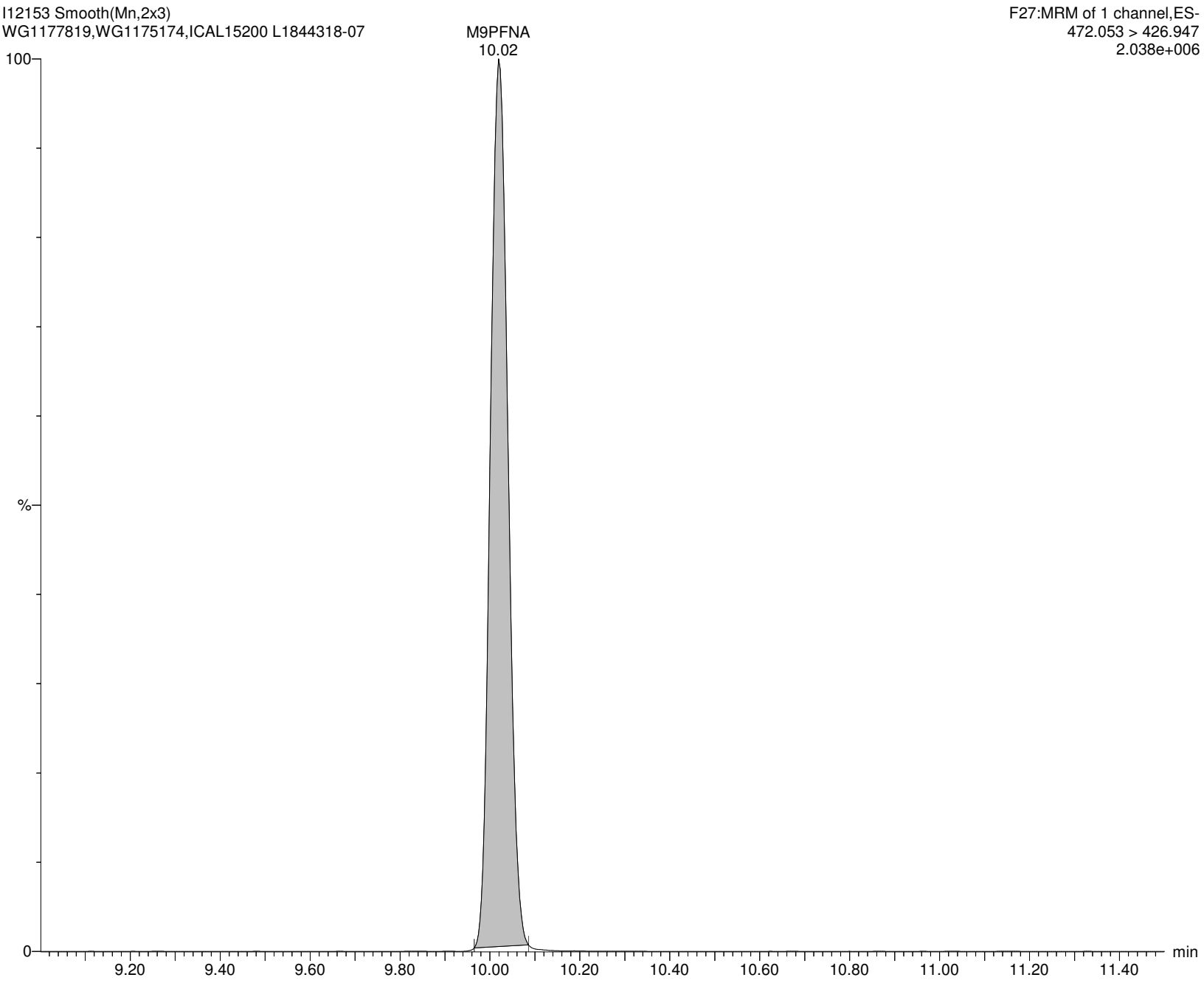

all concentration units in (ng/mL)

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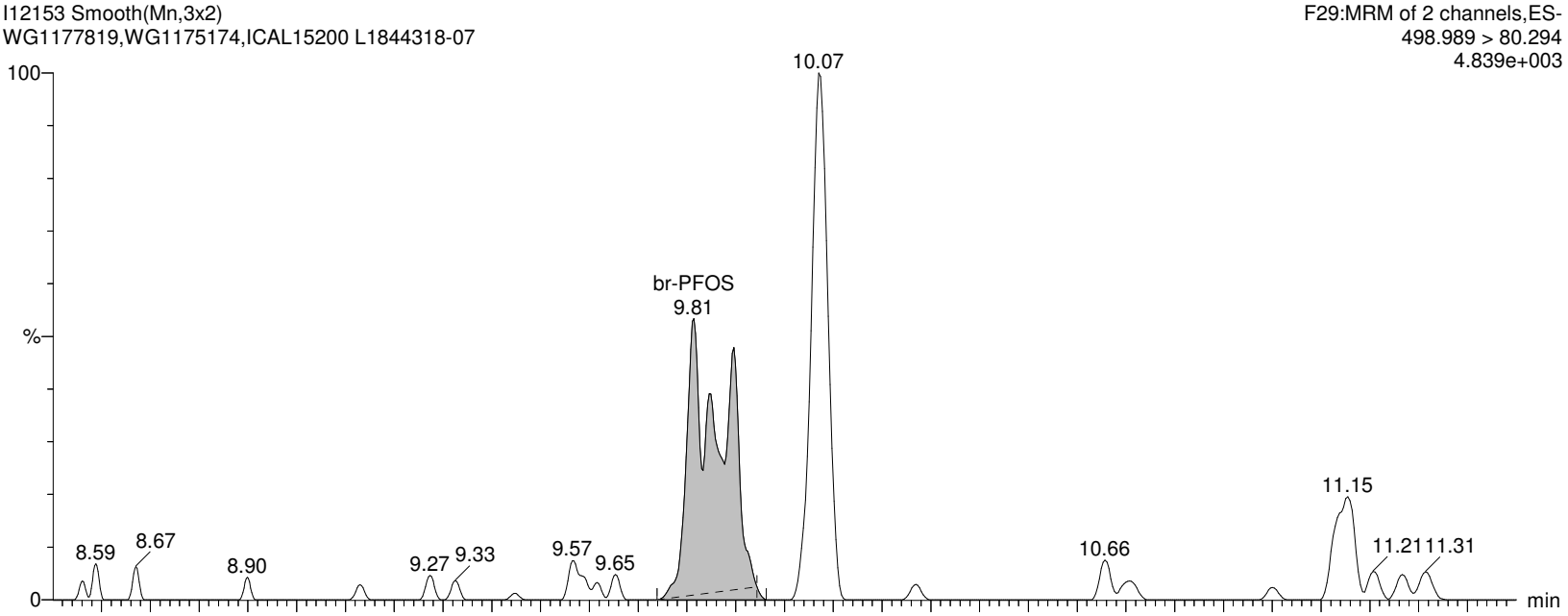

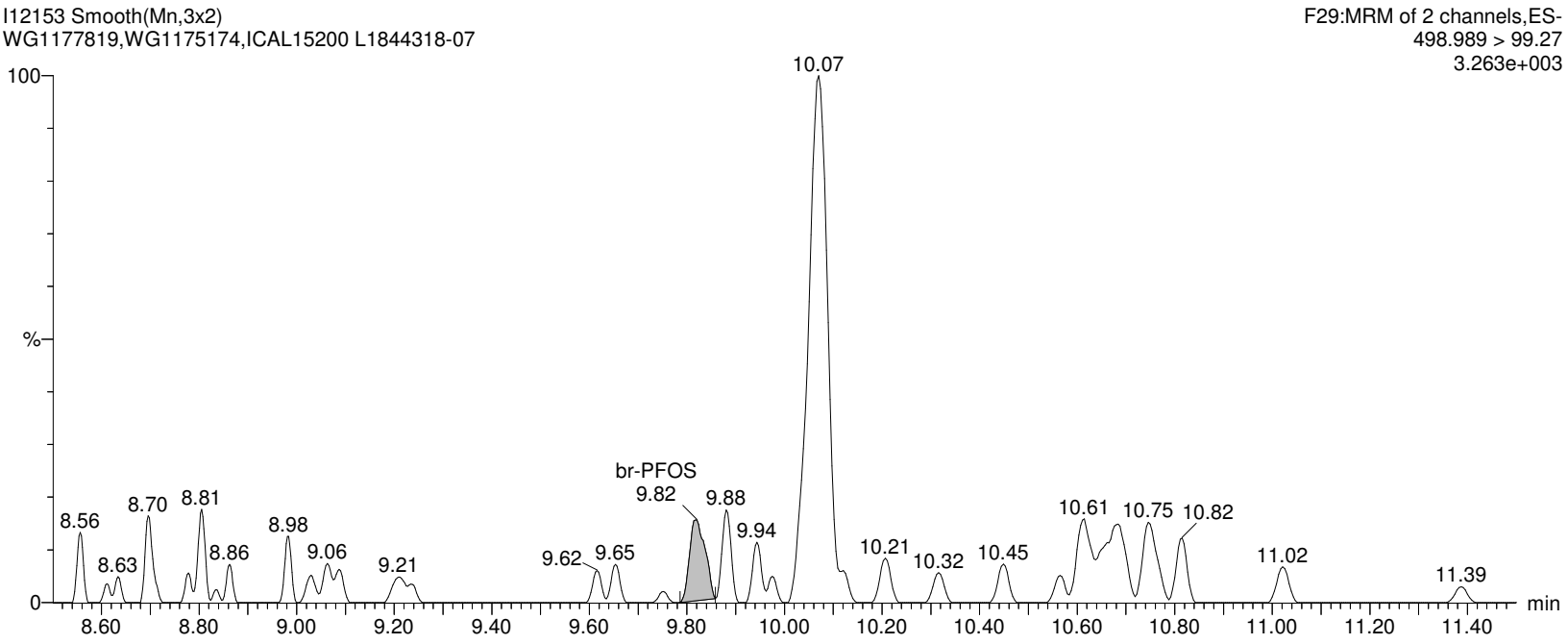

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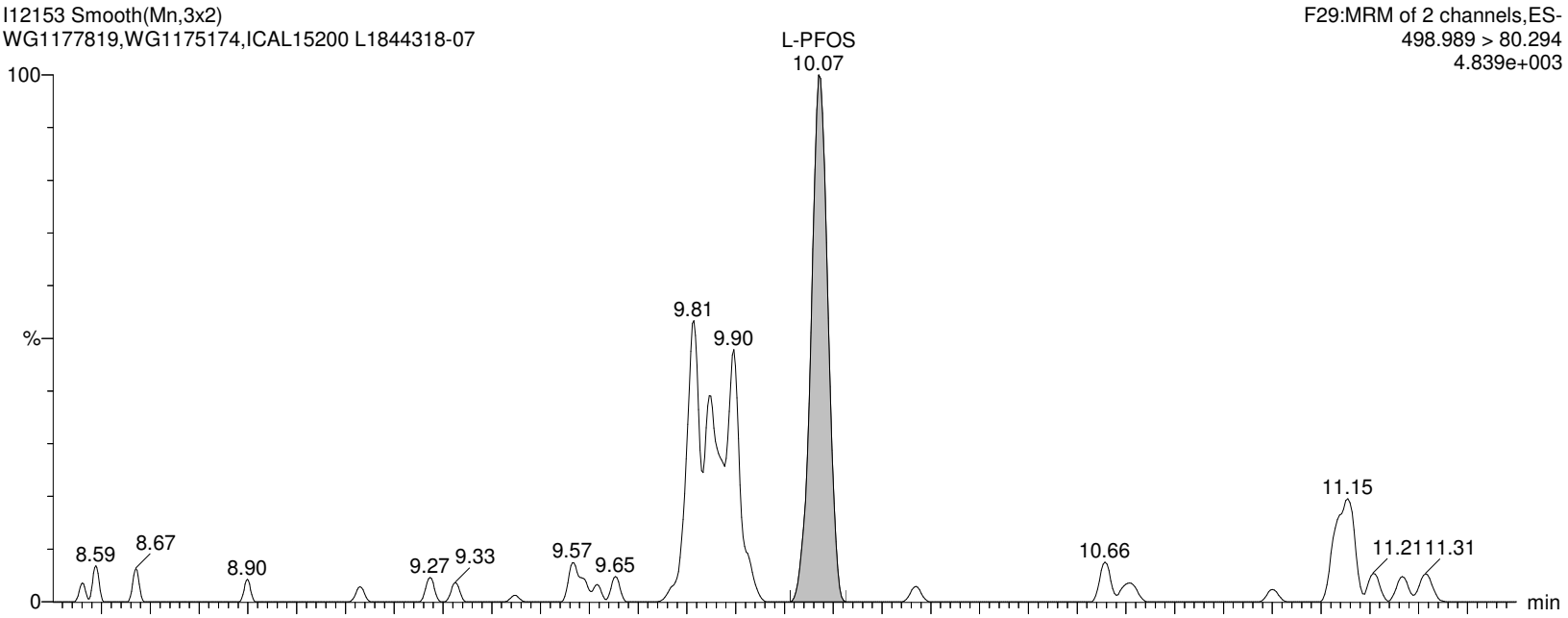

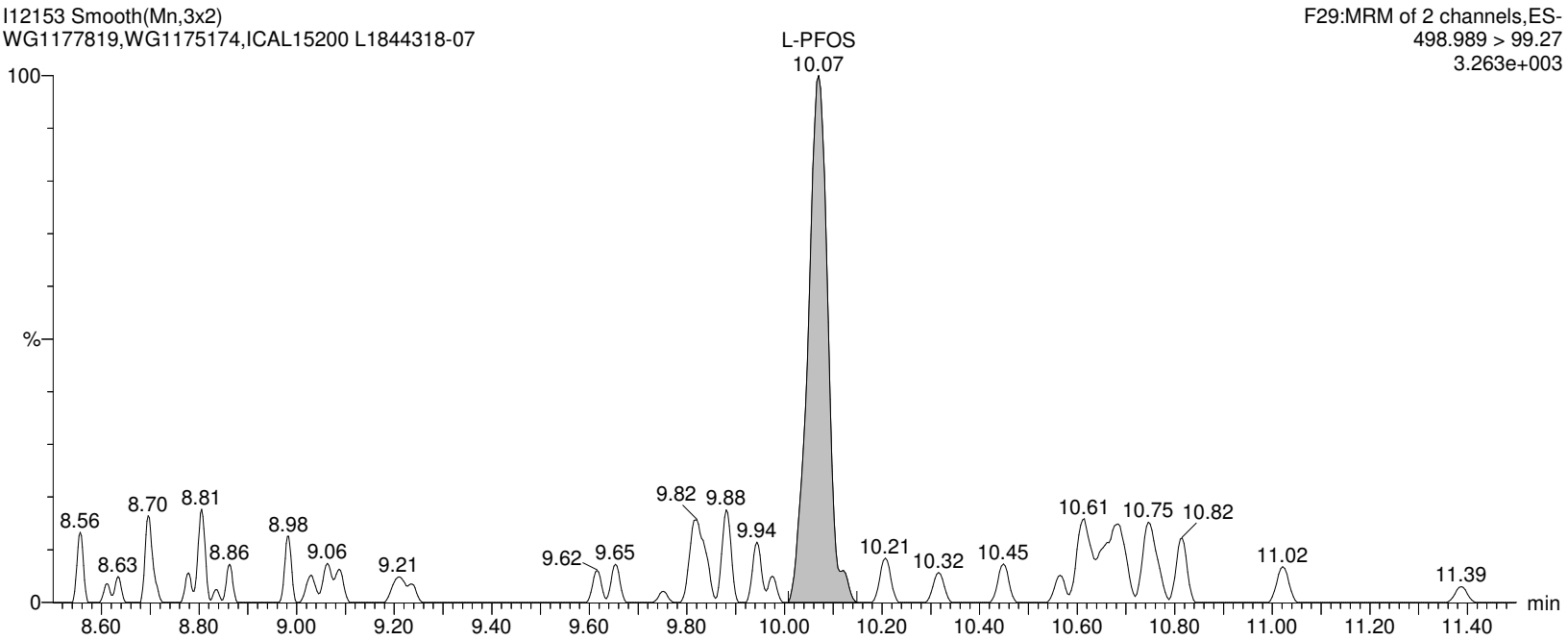

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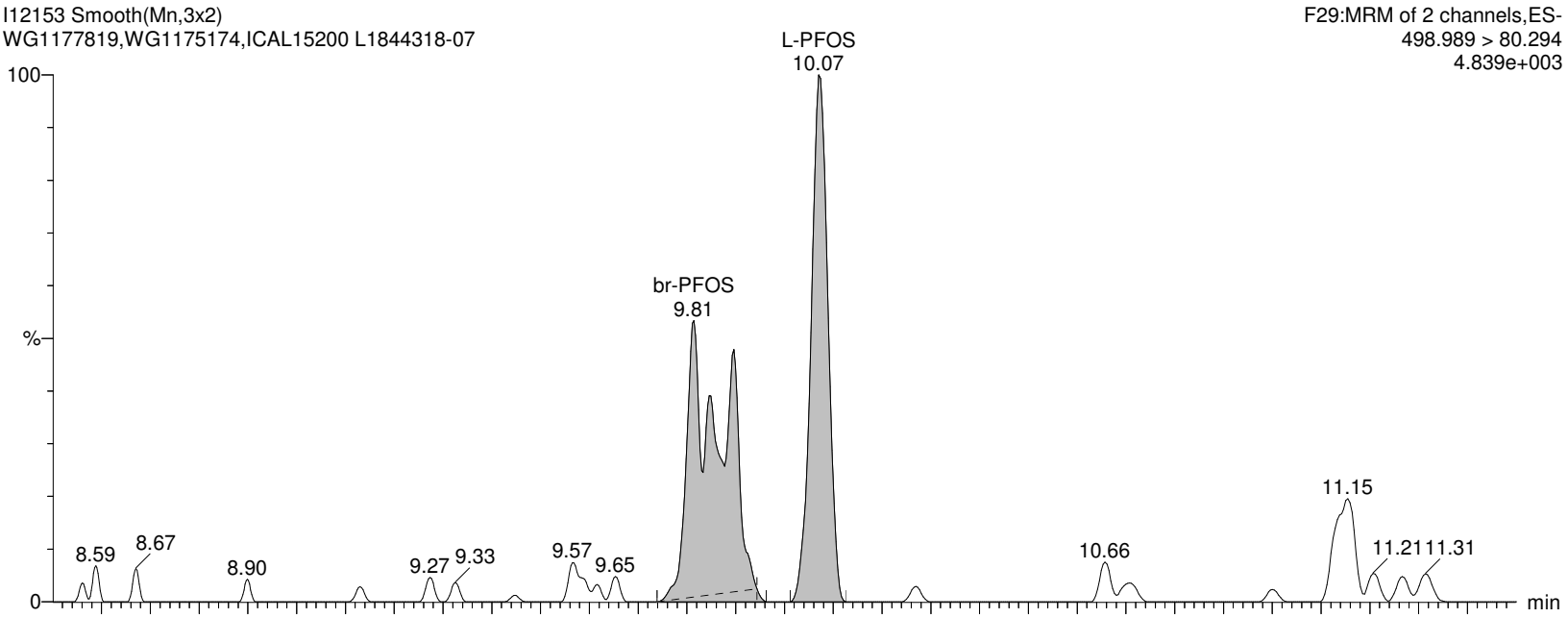

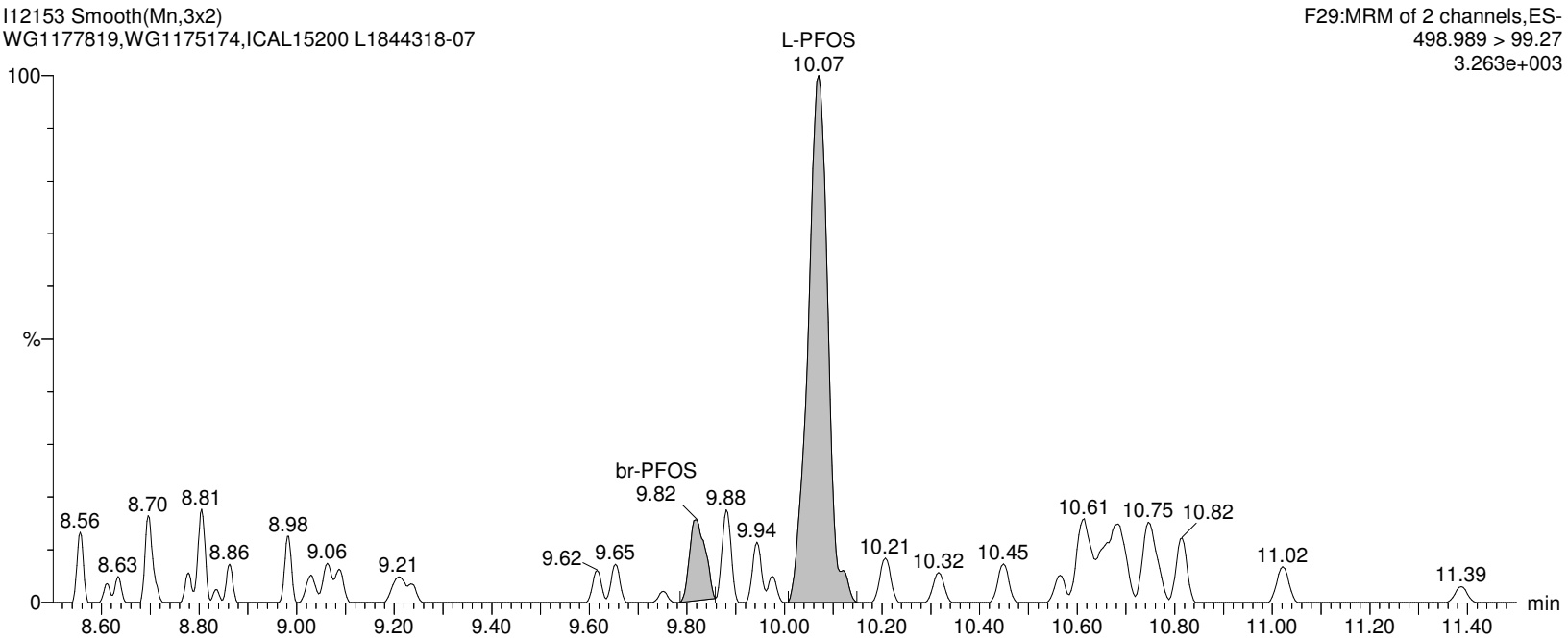

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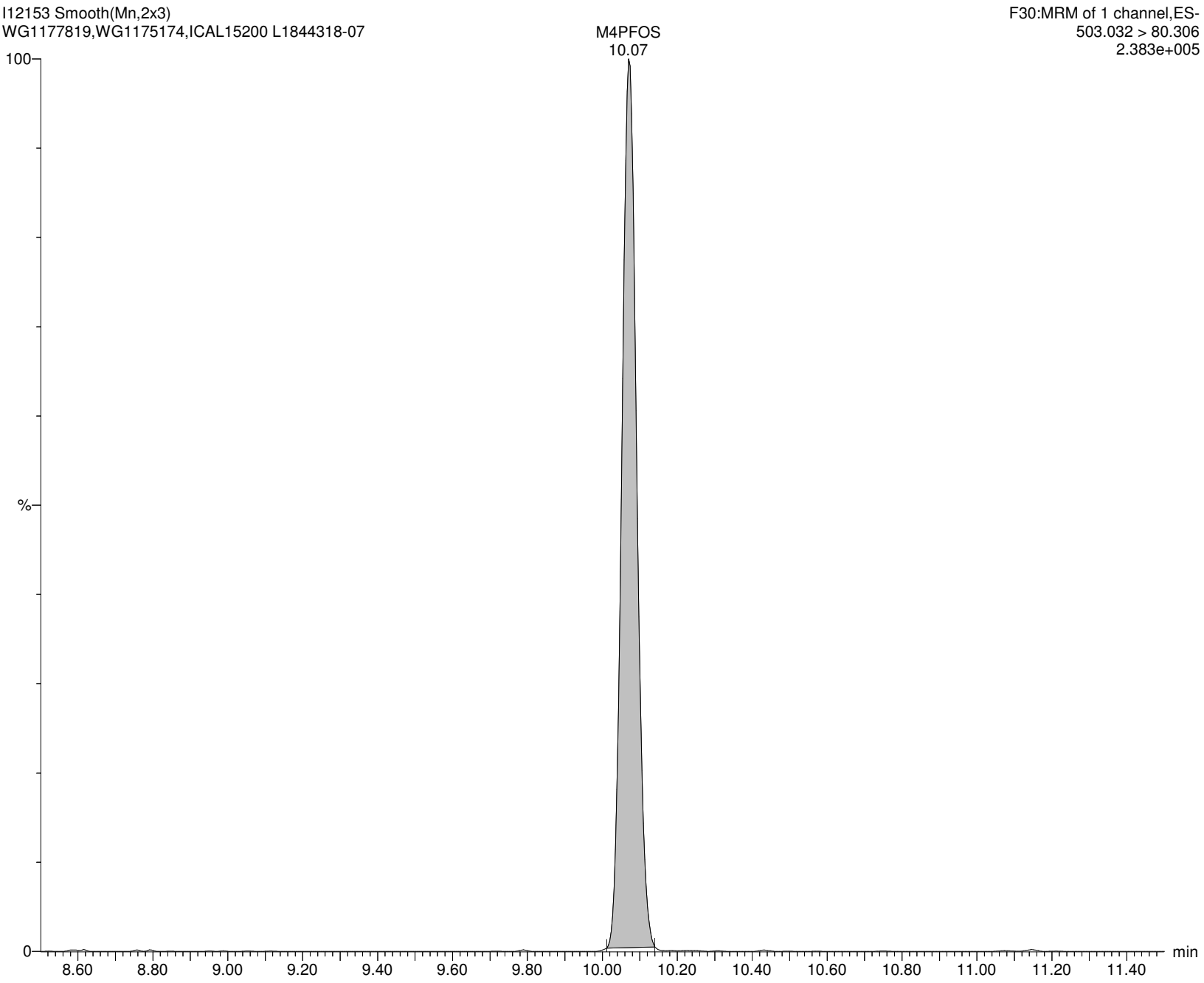

all concentration units in (ng/mL)

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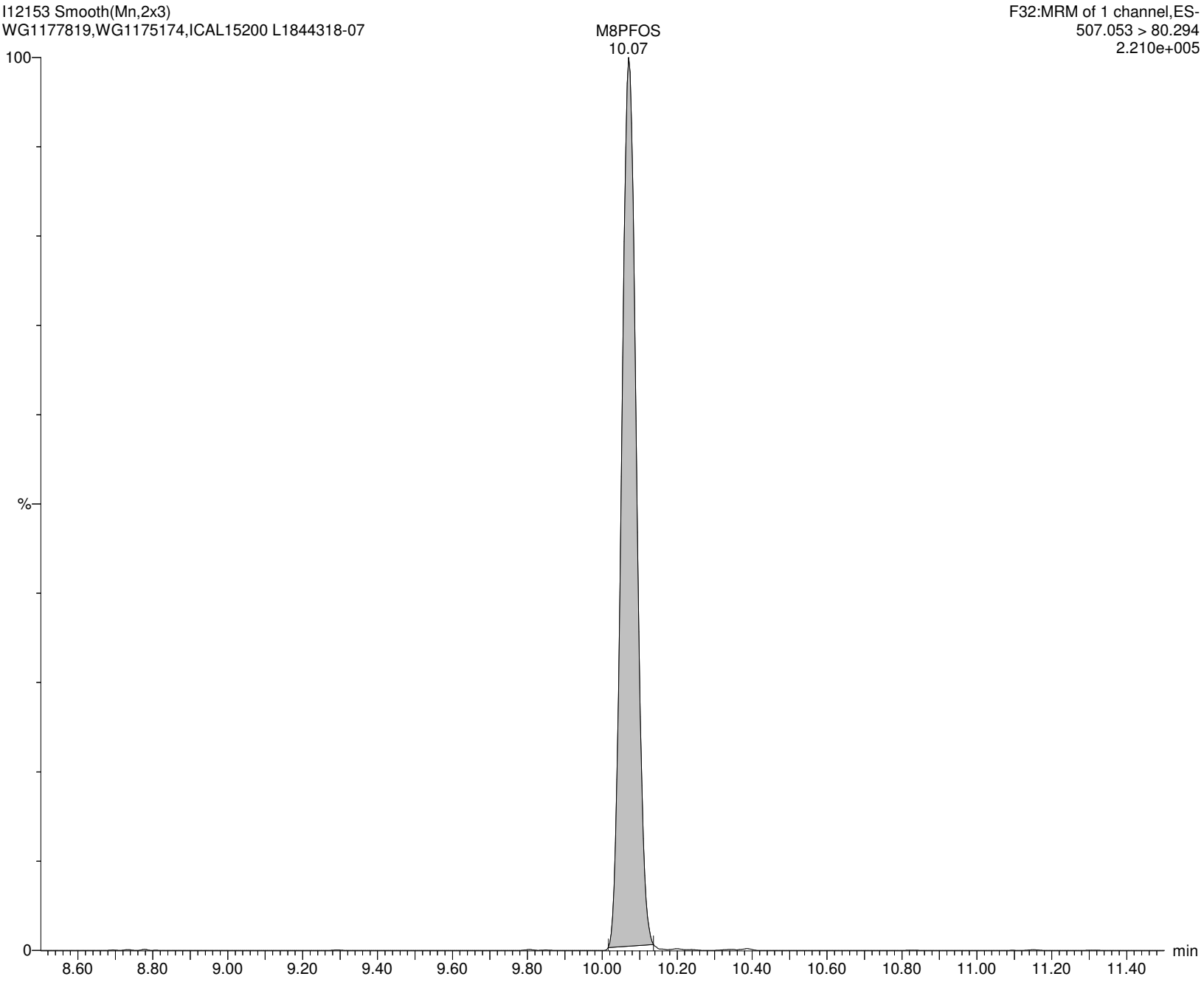

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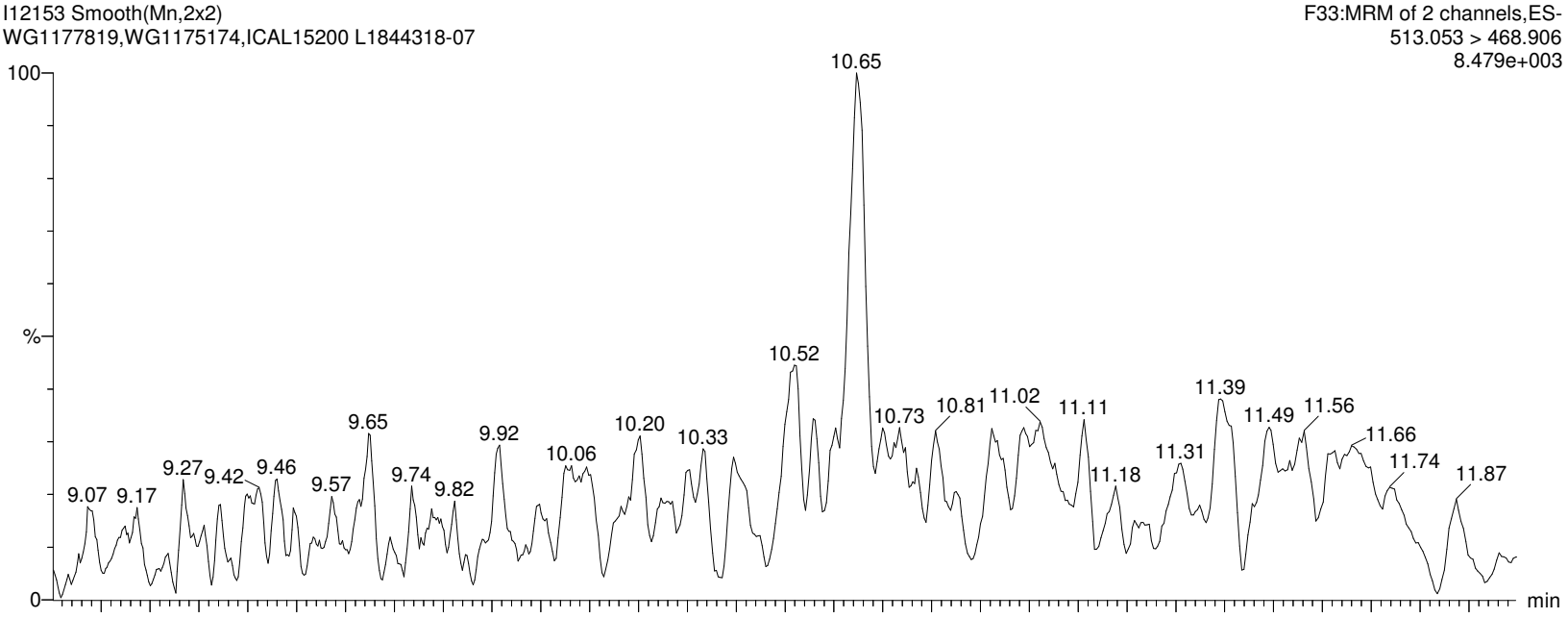

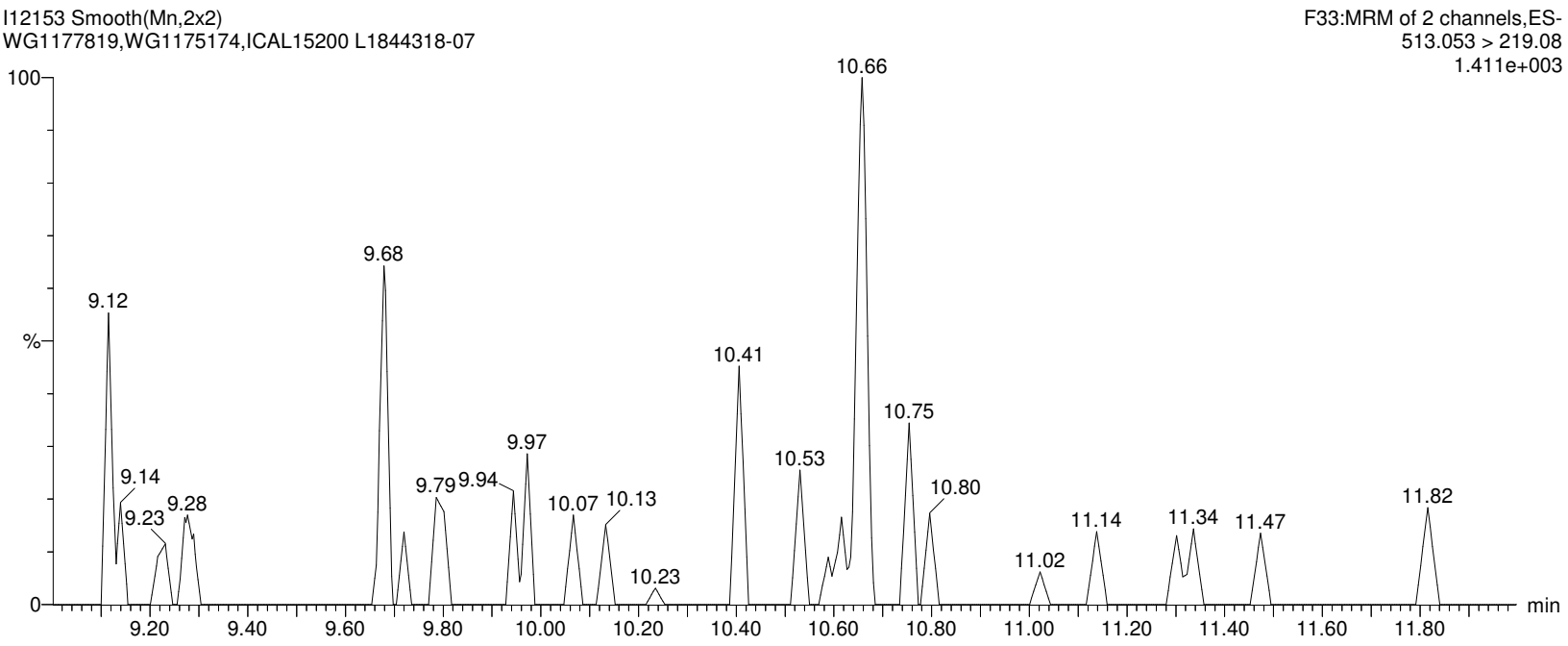

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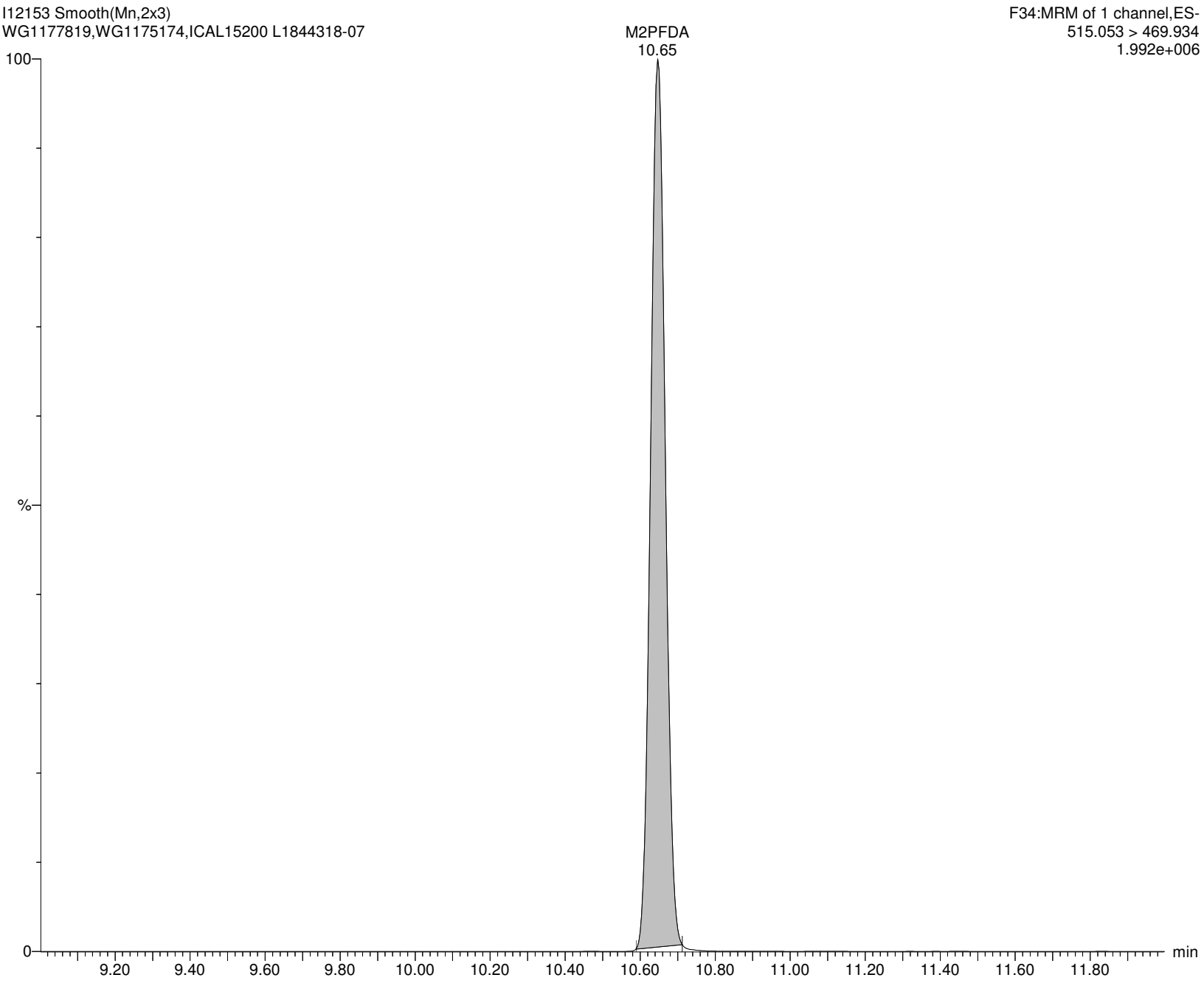

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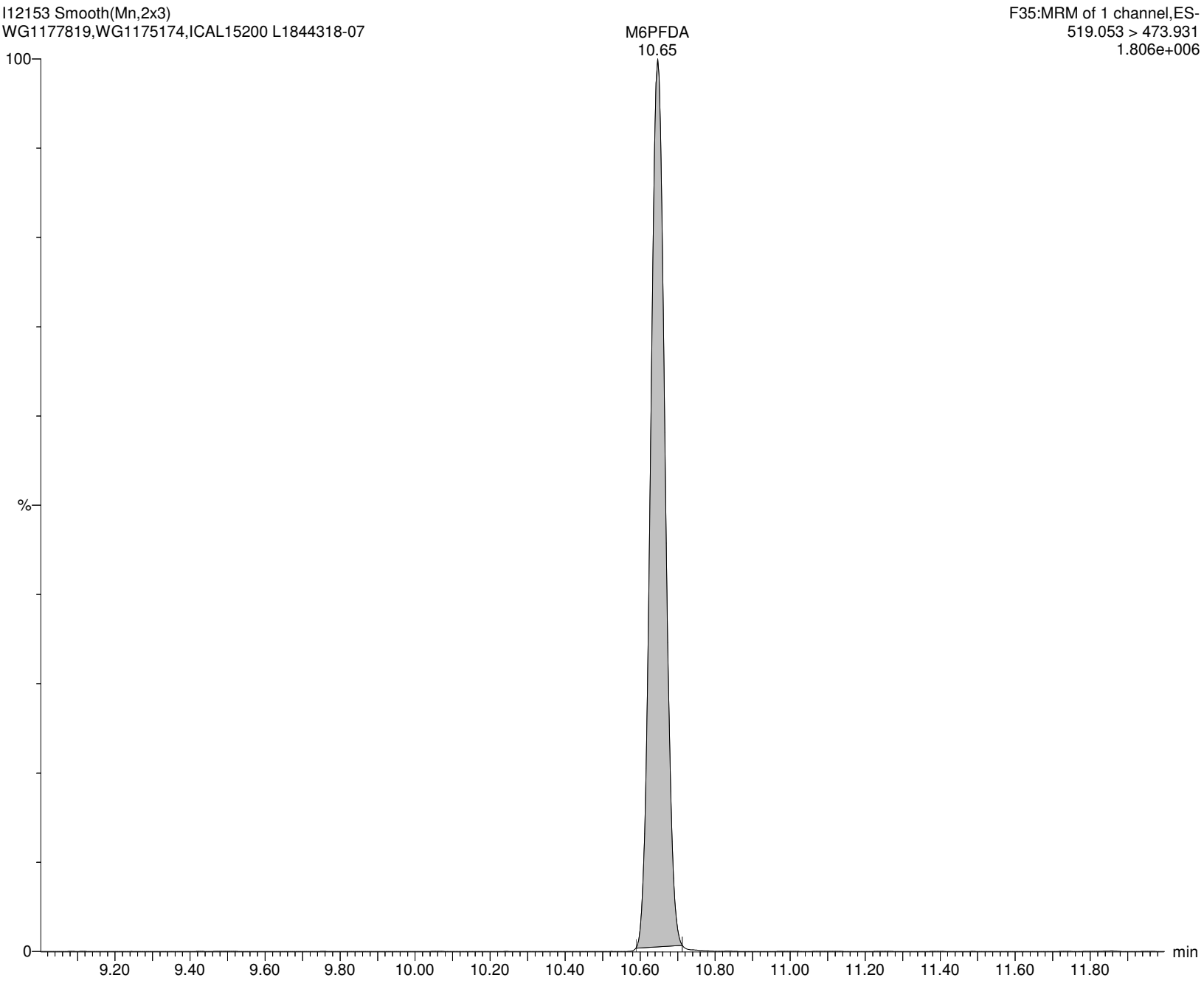

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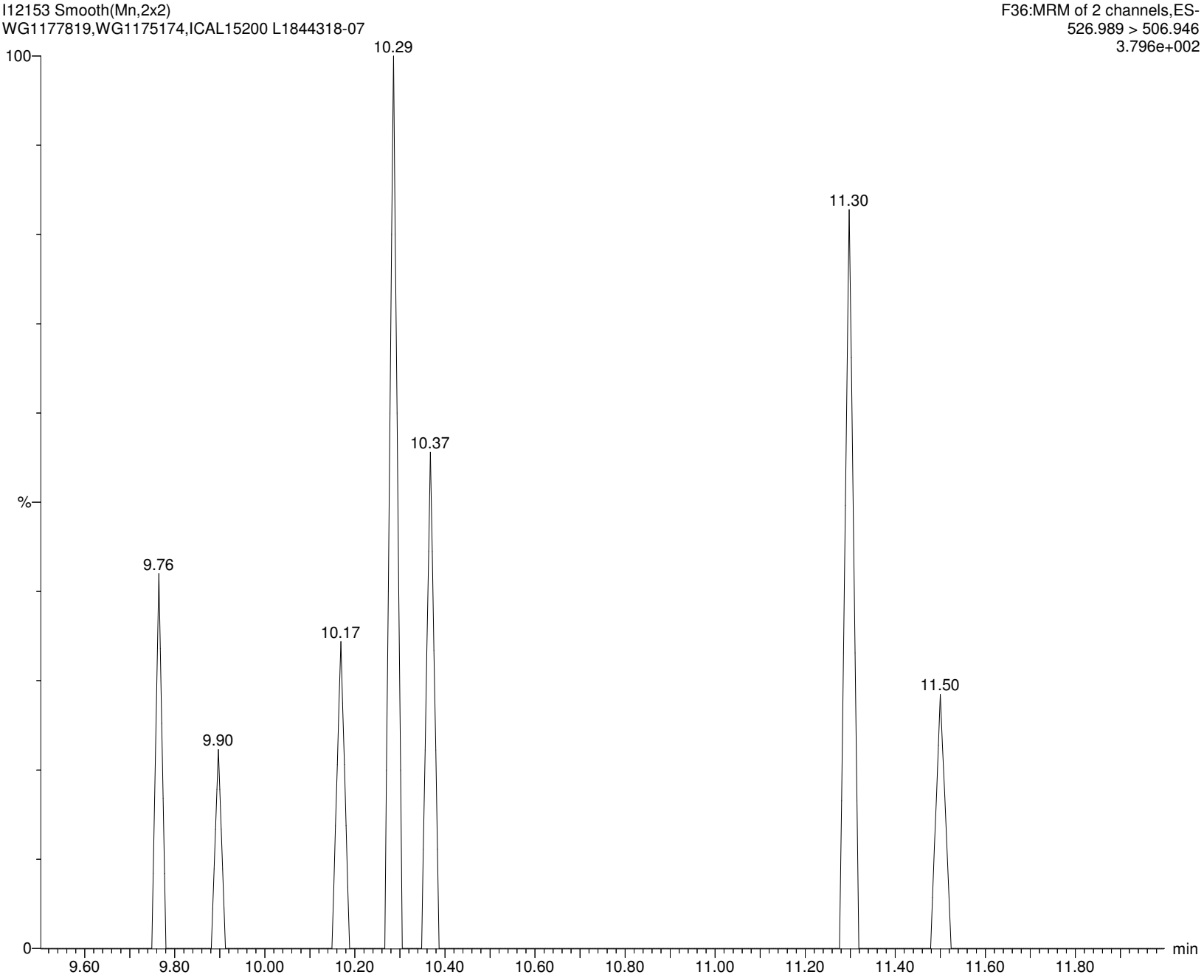

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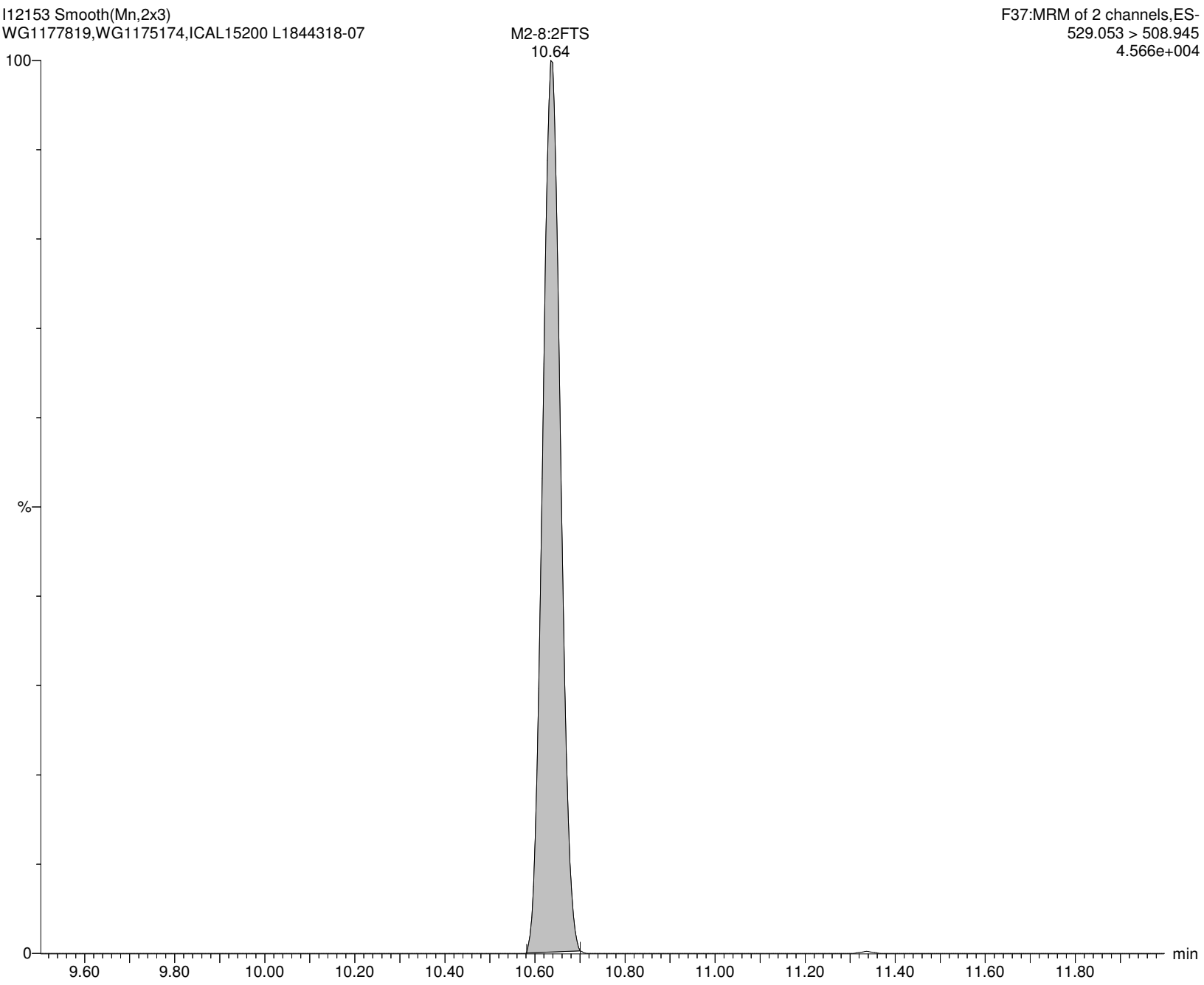

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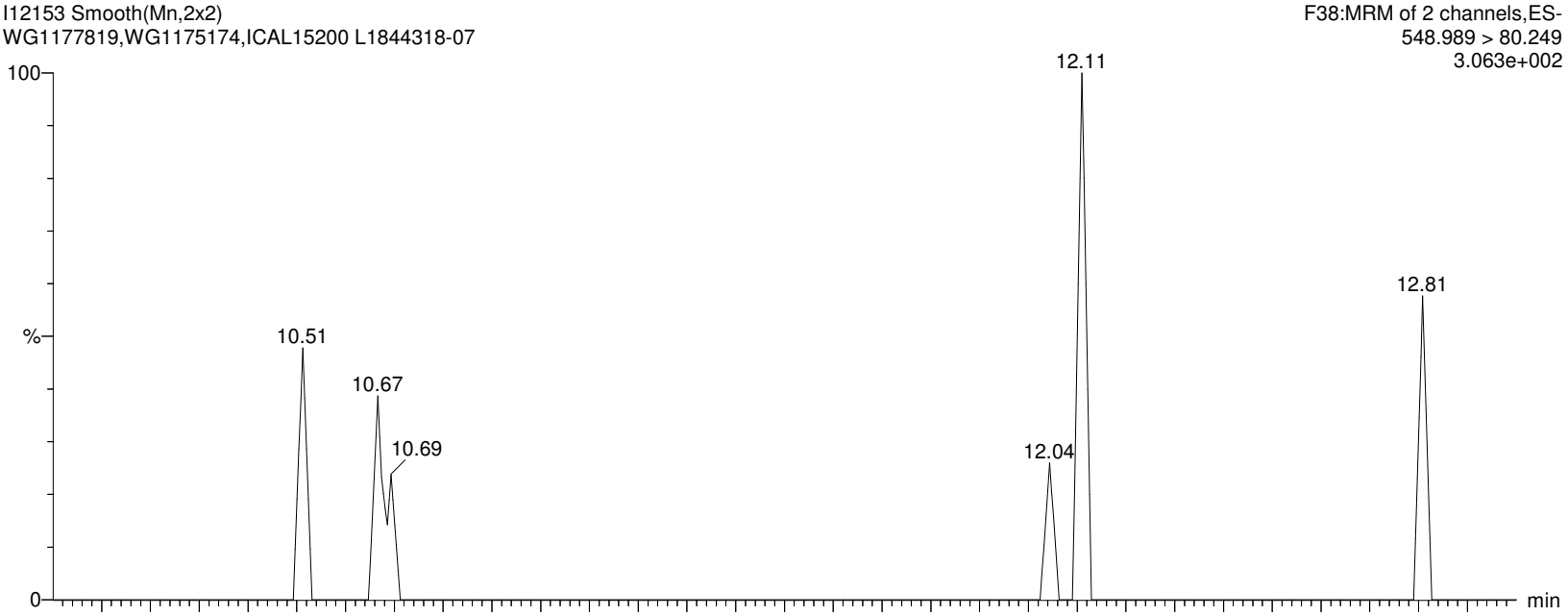

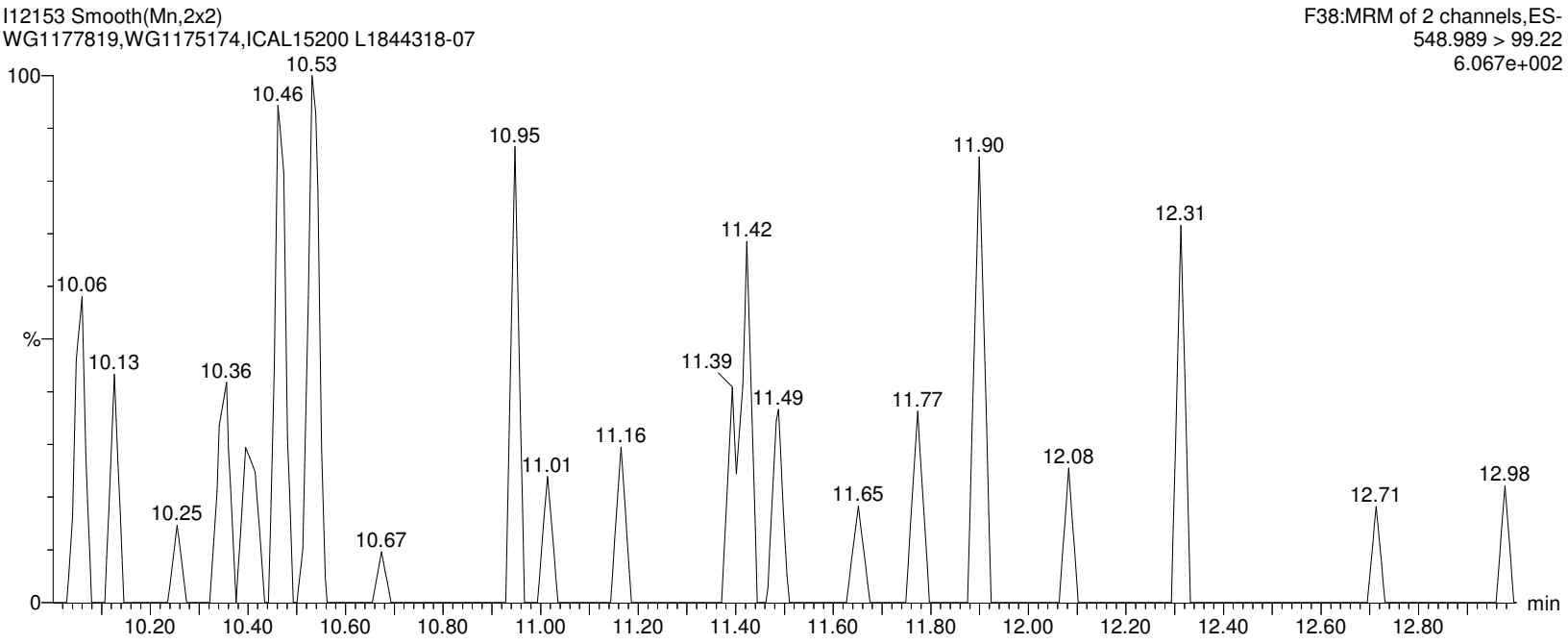

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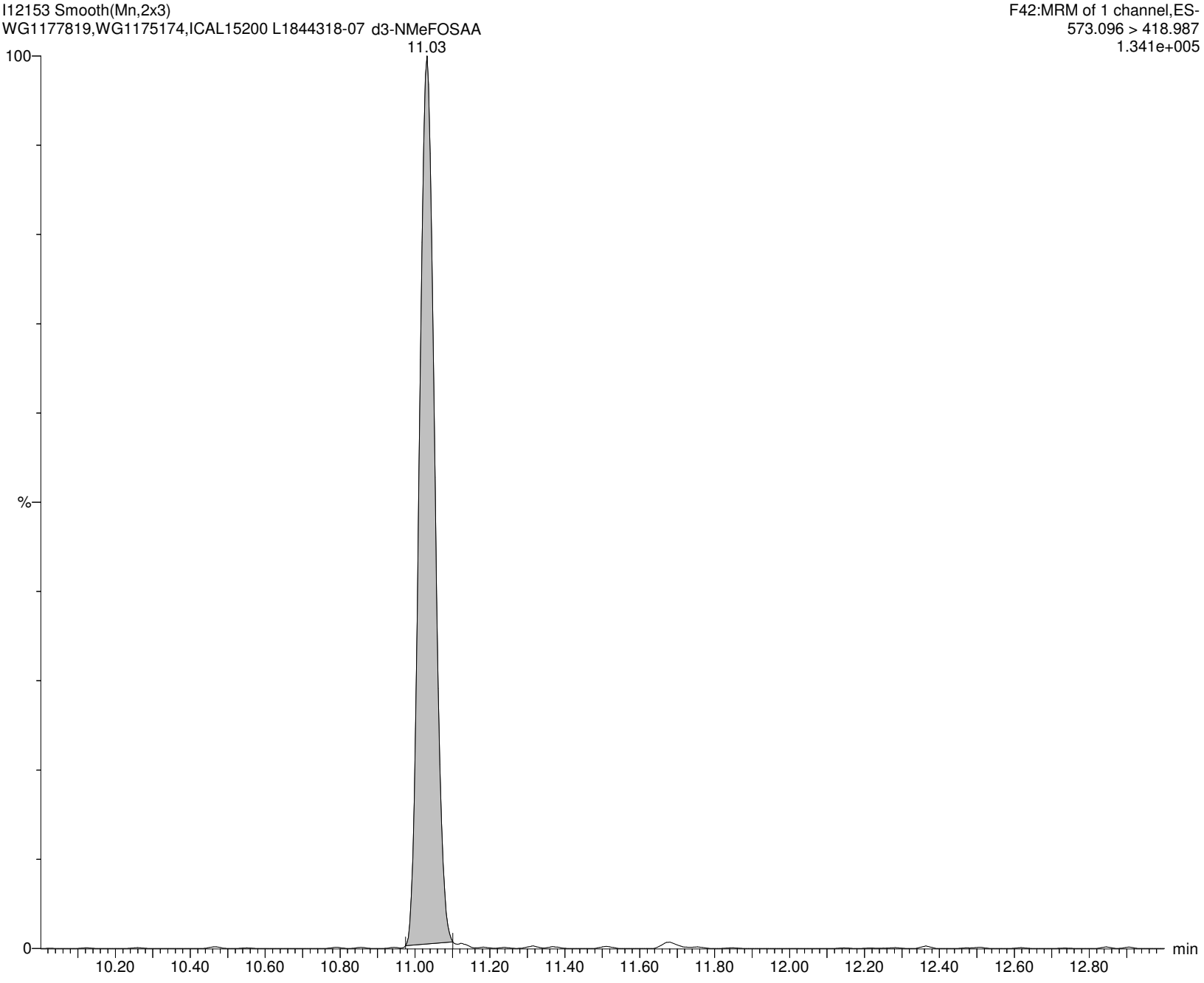

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Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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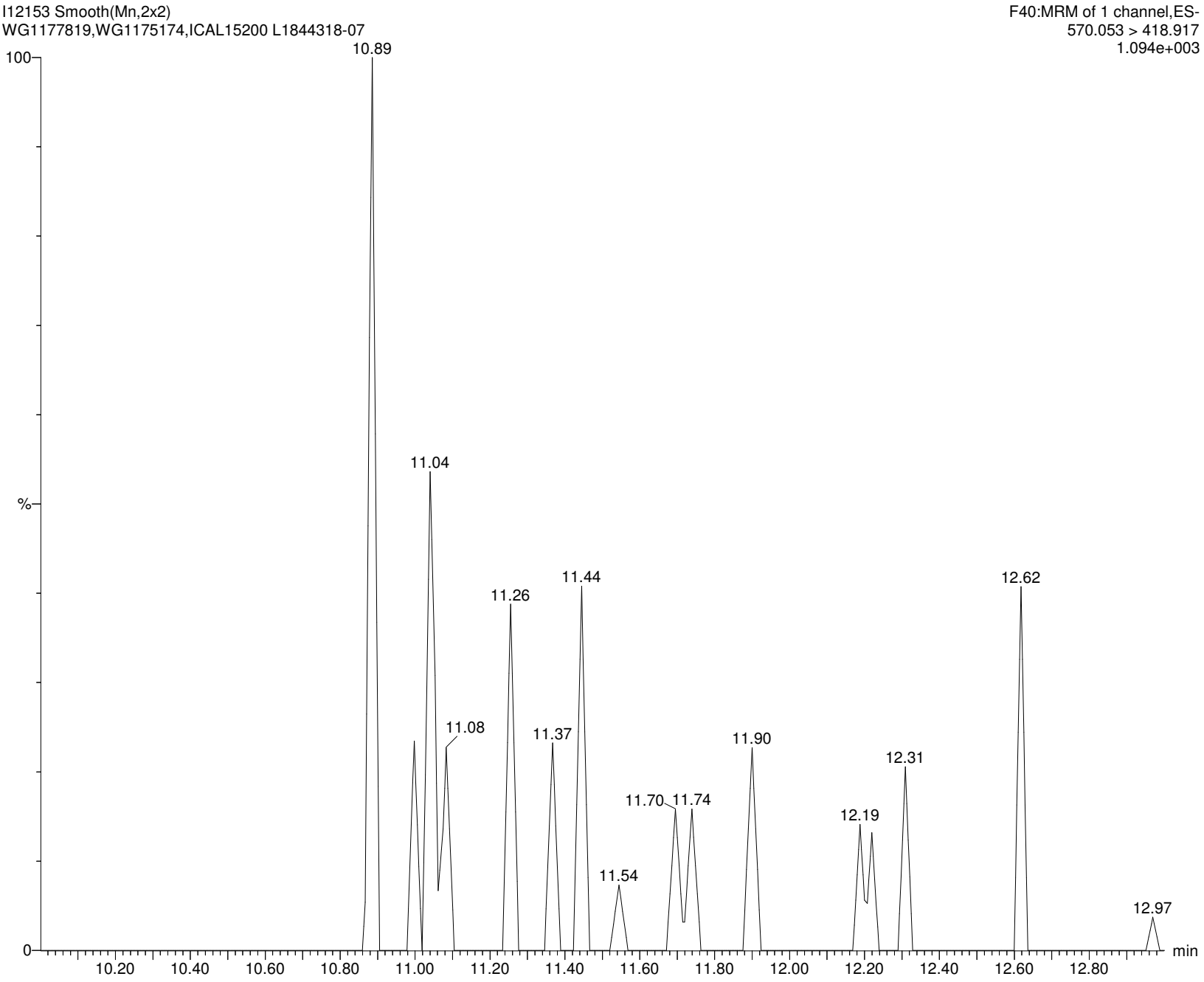

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:54 Eastern Standard Time

Name: I12153
ID: L1844318-07
Date: 10-Nov-2018
Time: 07:08:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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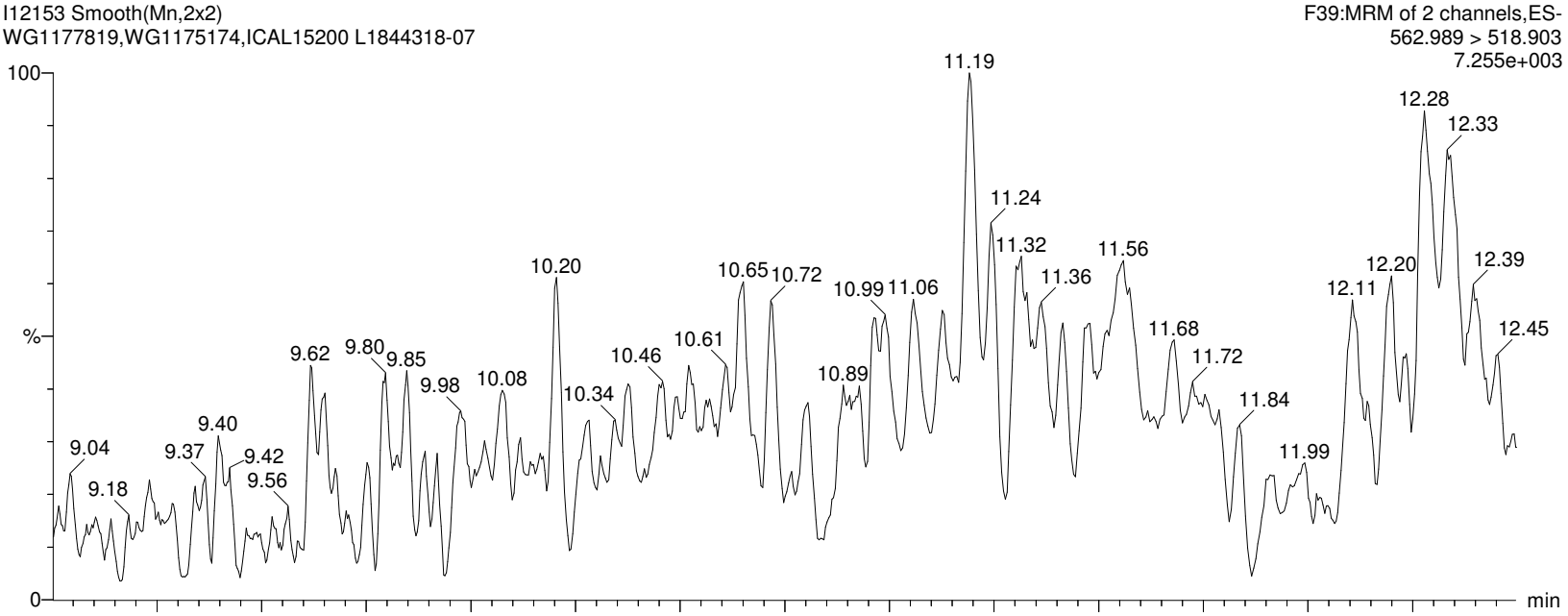

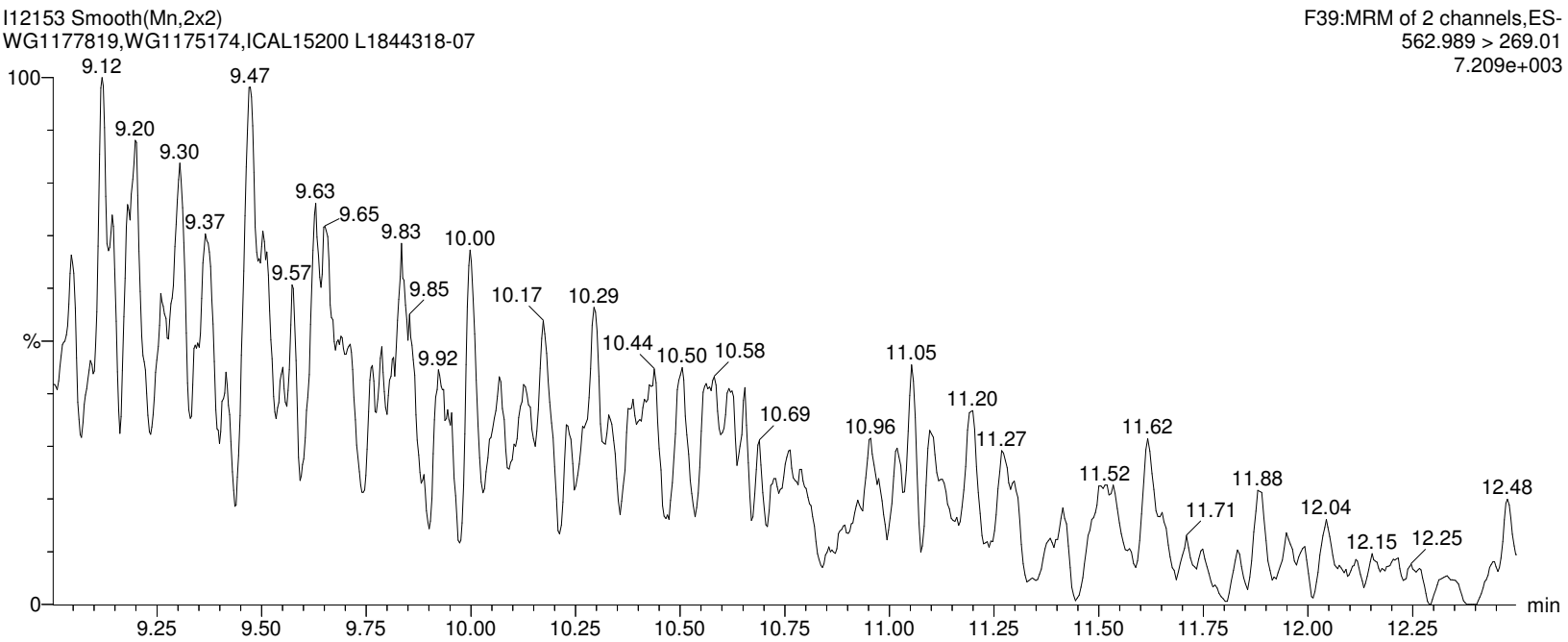

all concentration units in (ng/mL)

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Vial: 1:C,6
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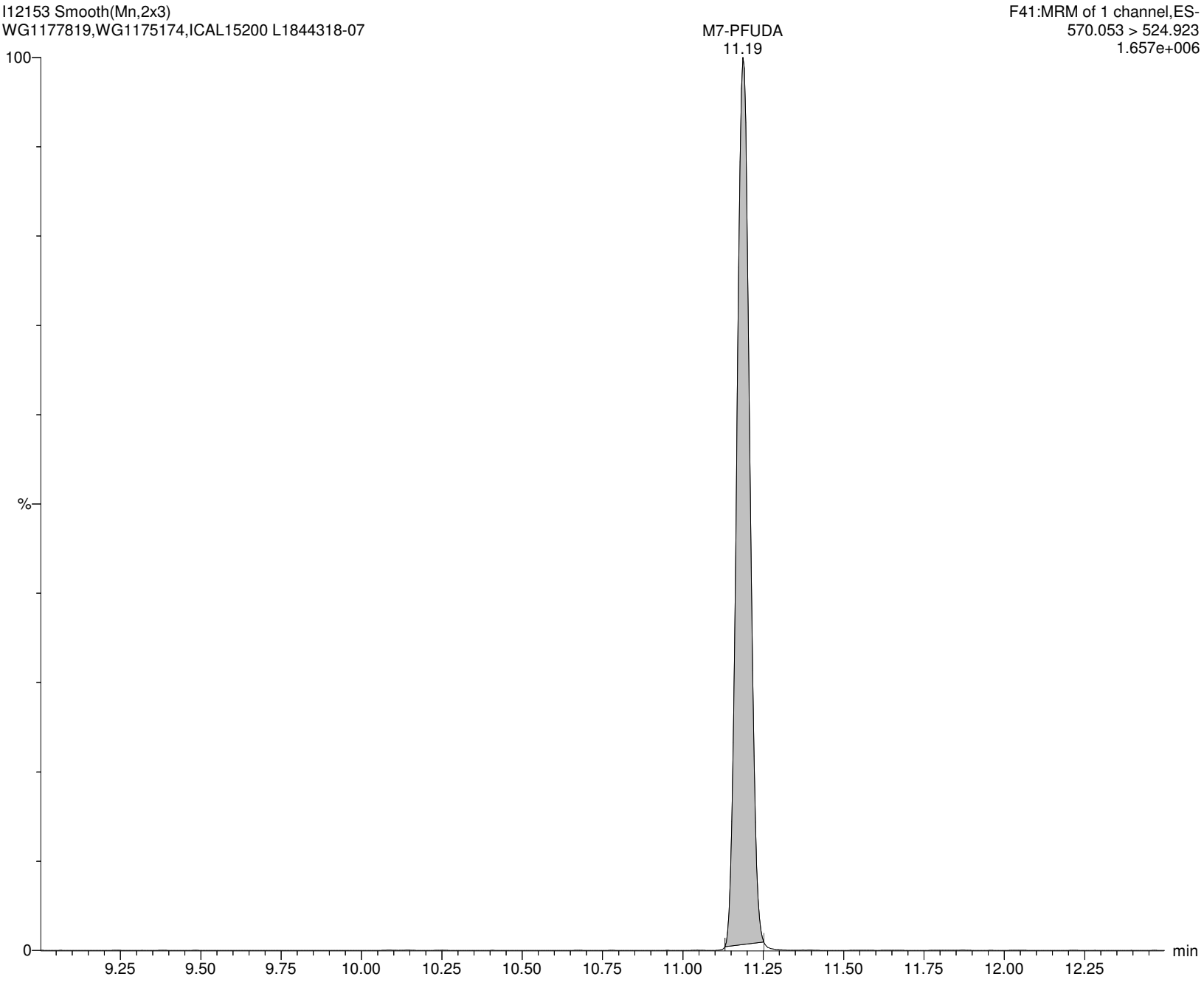
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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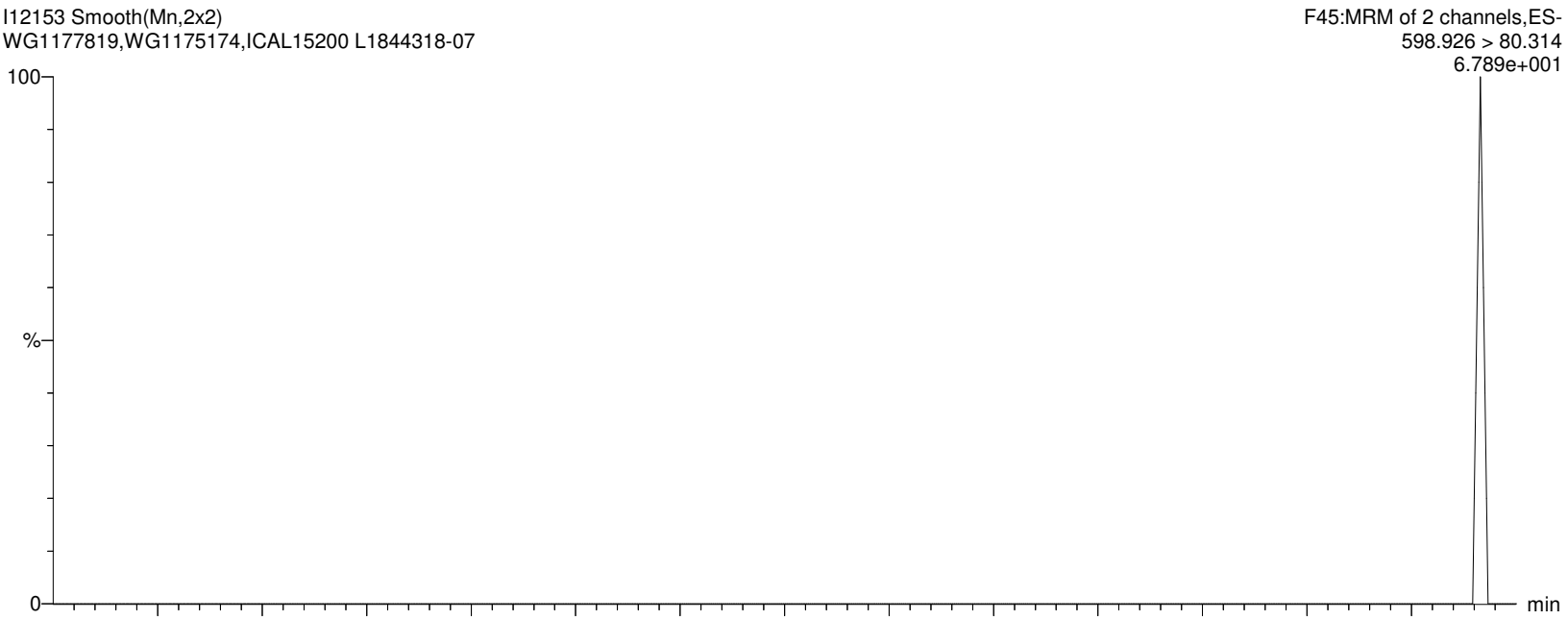
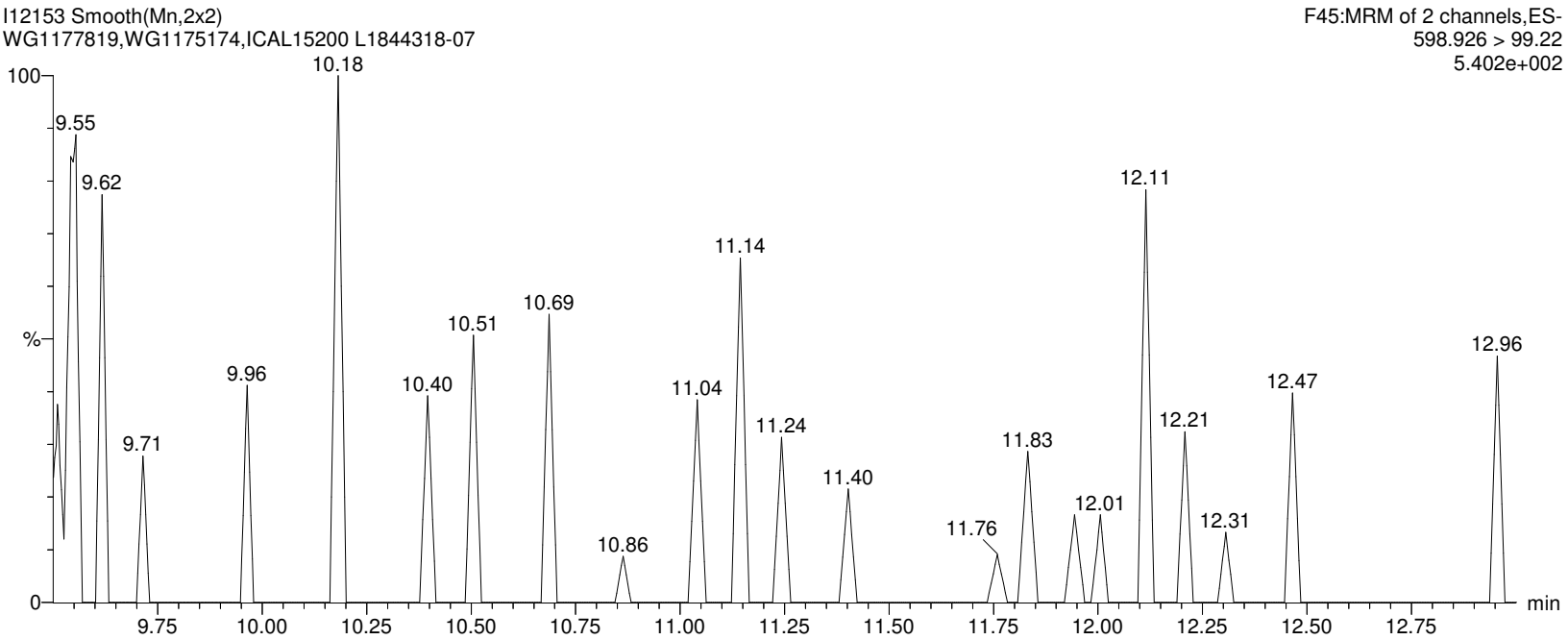
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFDS





all concentration units in (ng/mL)

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Vial: 1:C,6
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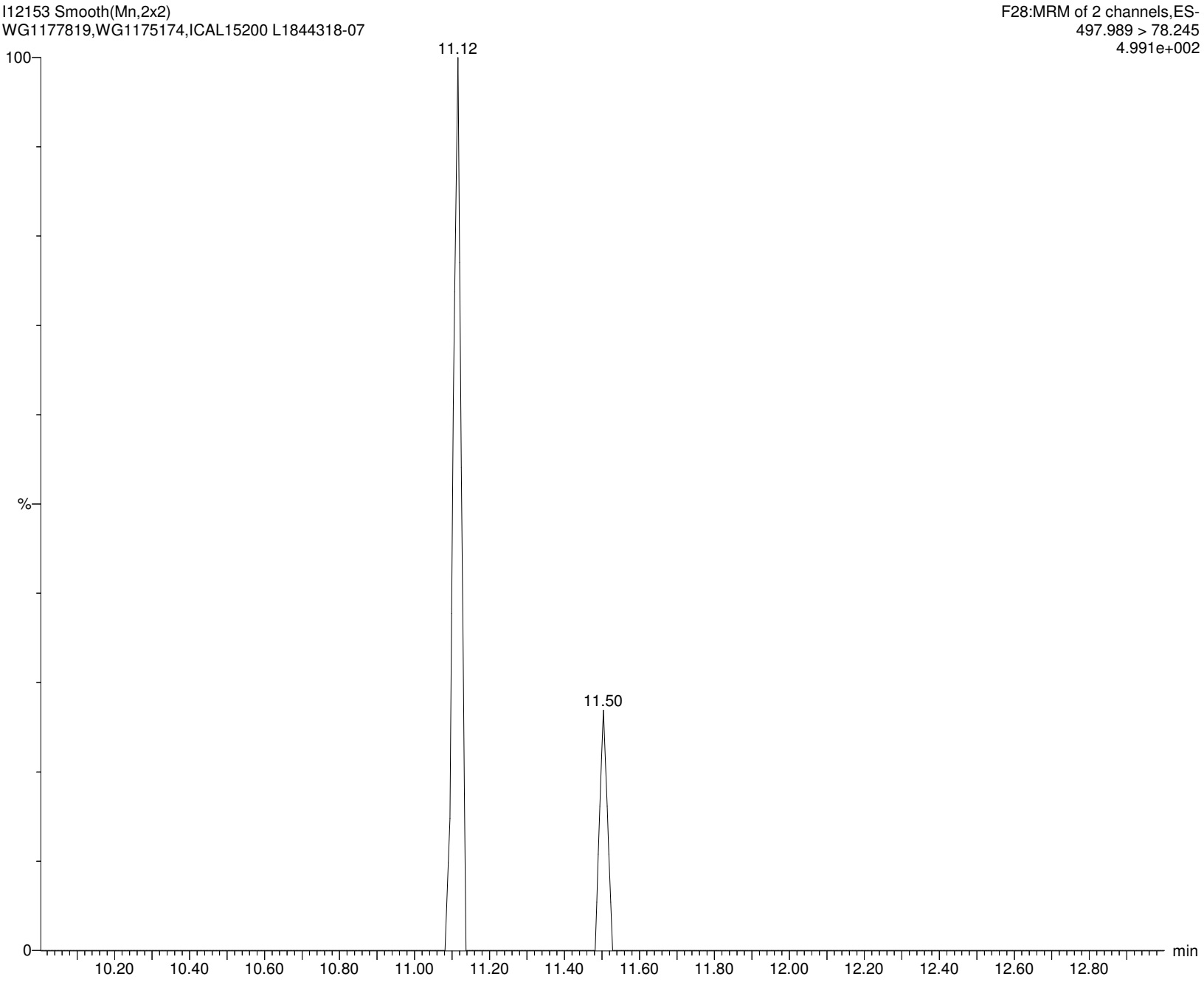
FOSA



all concentration units in (ng/mL)

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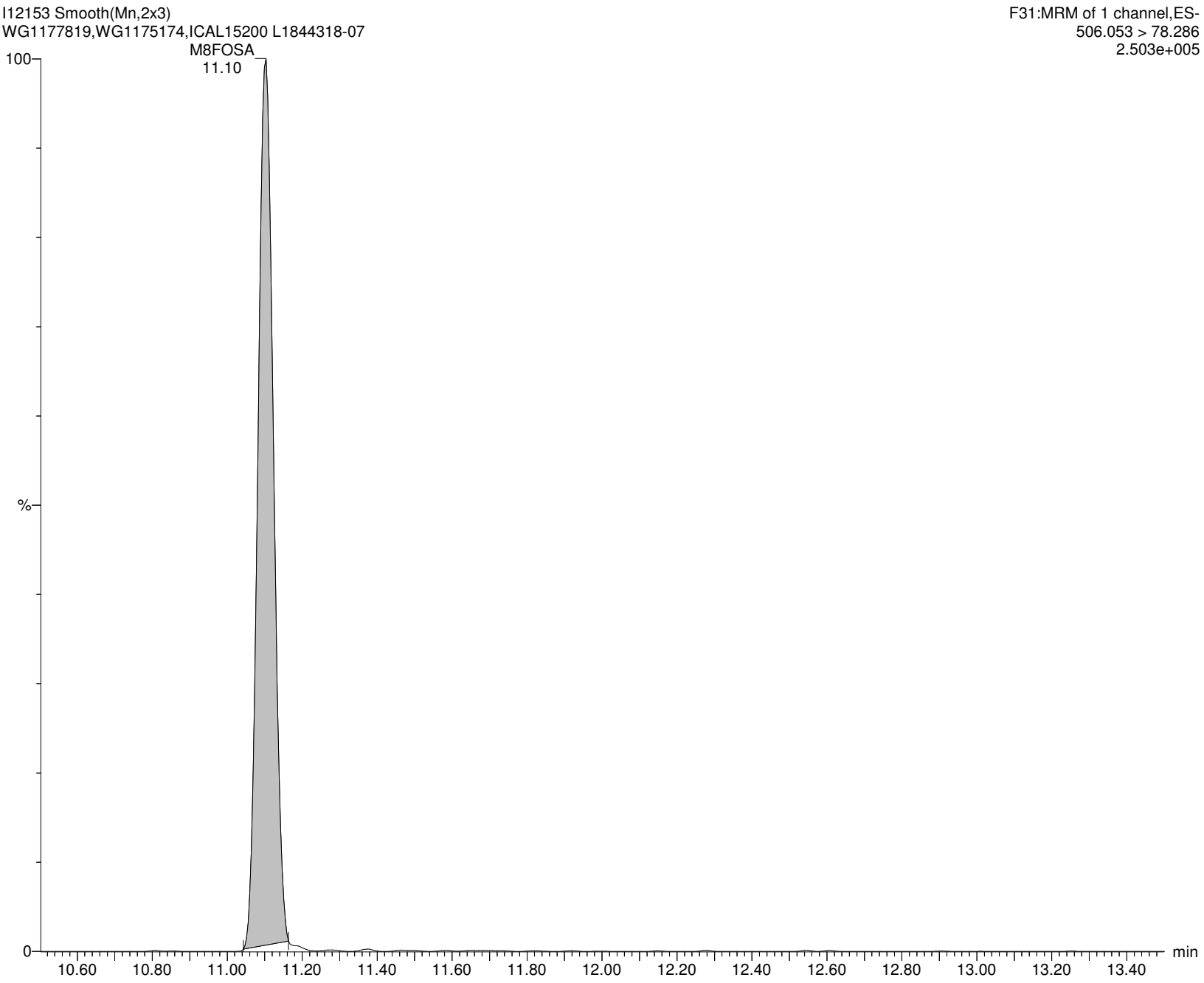

all concentration units in (ng/mL)

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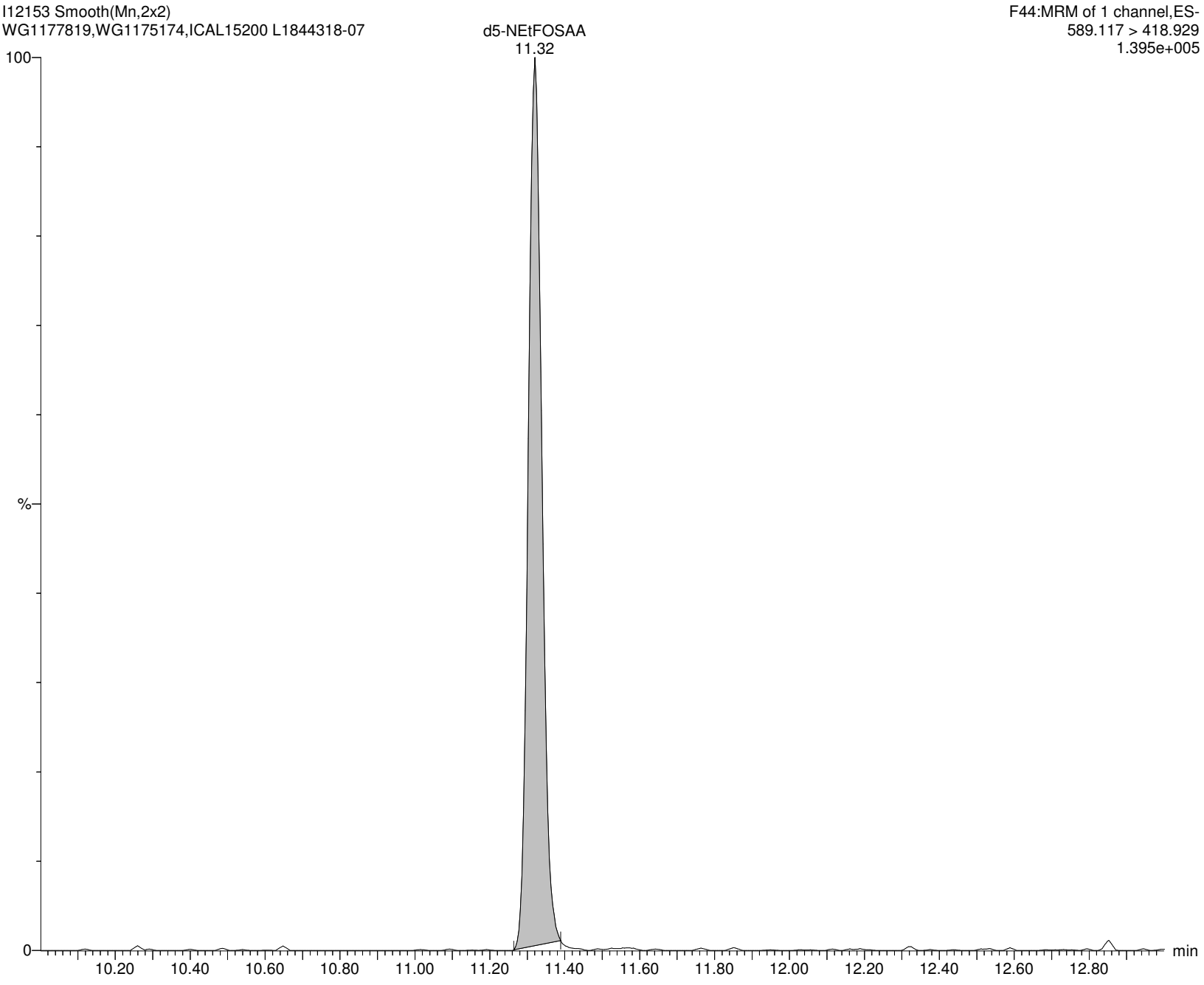

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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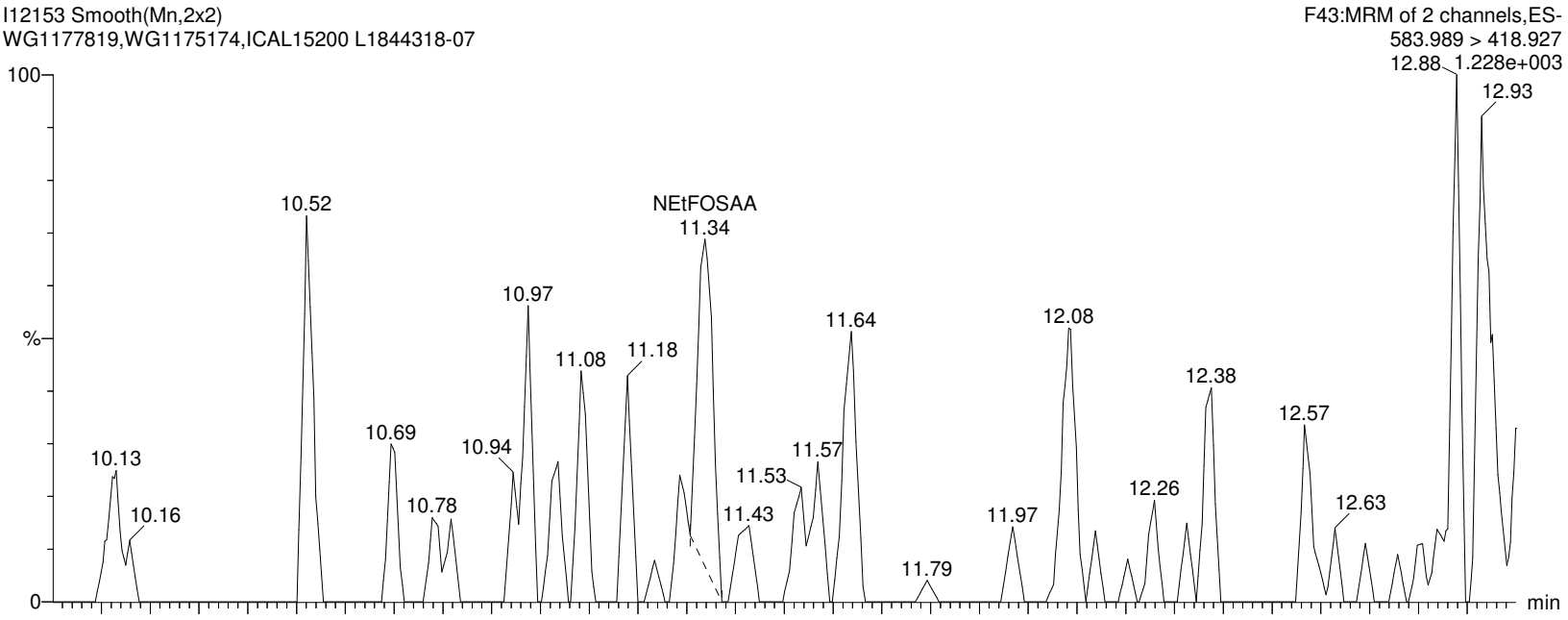

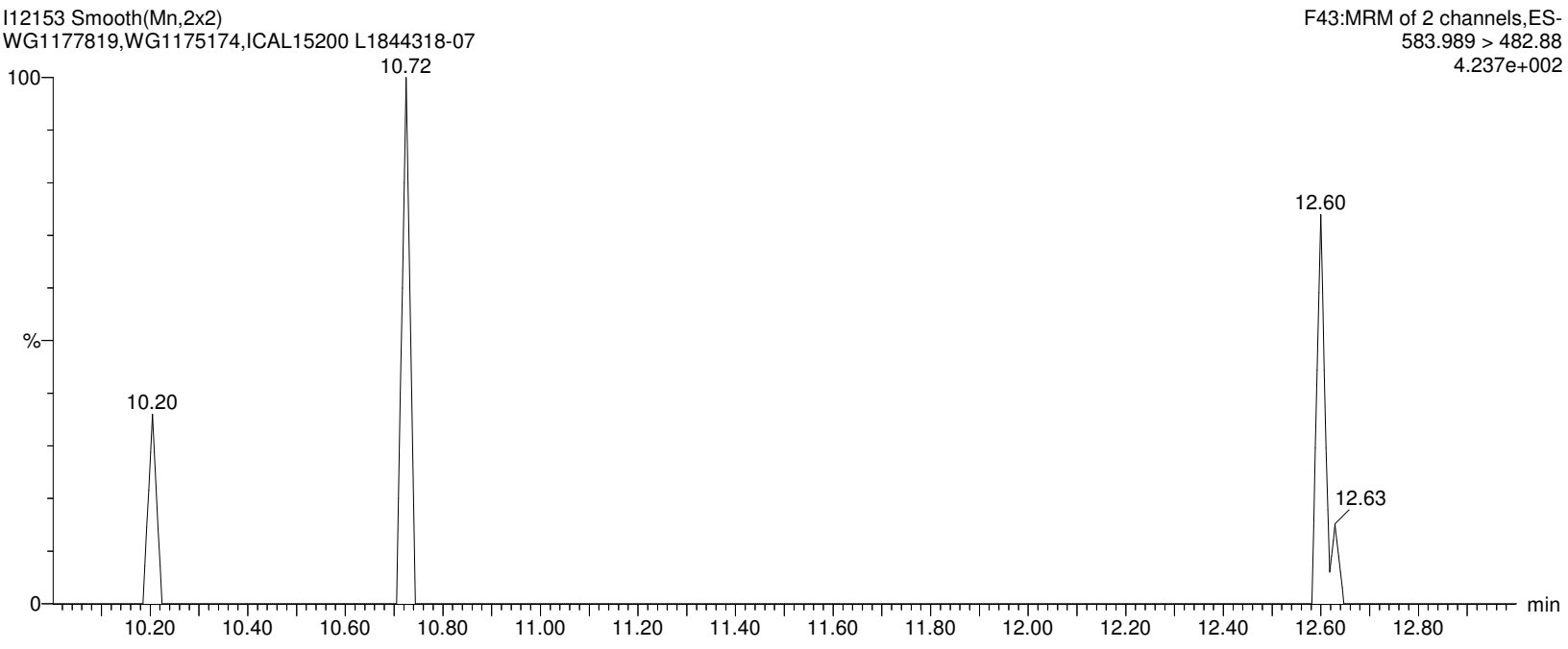

all concentration units in (ng/mL)

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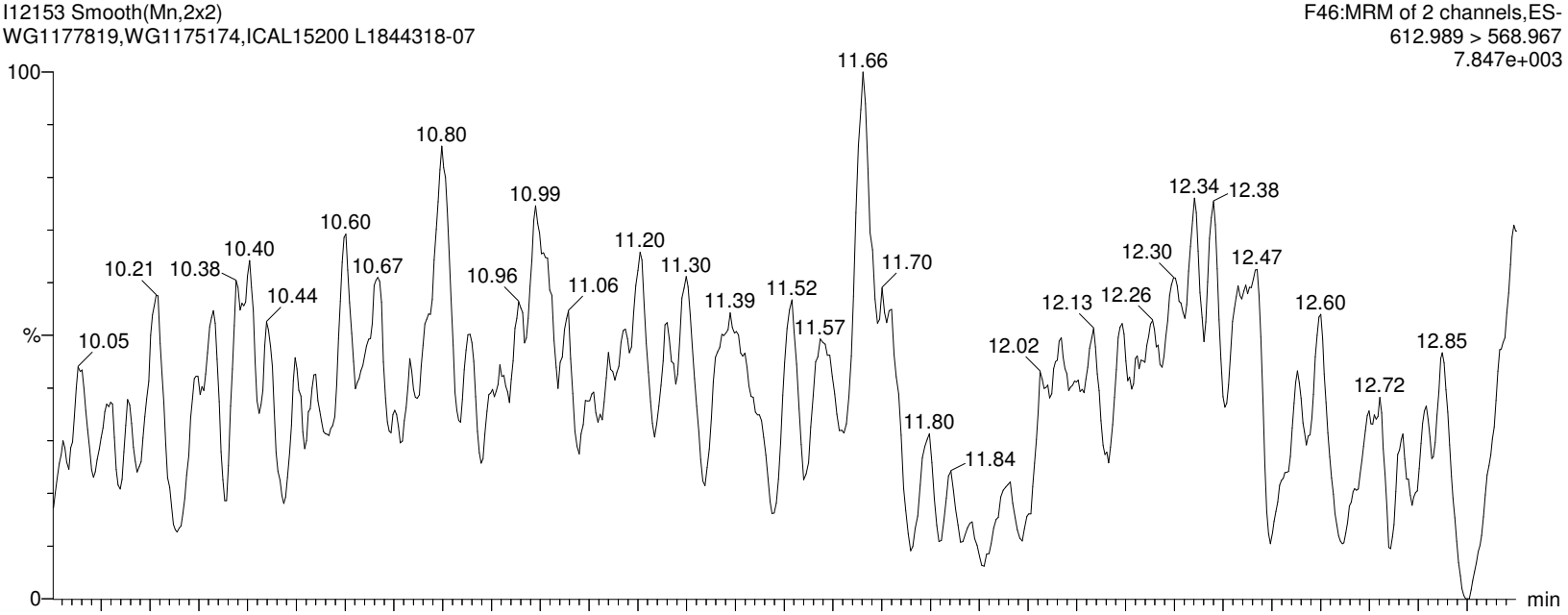

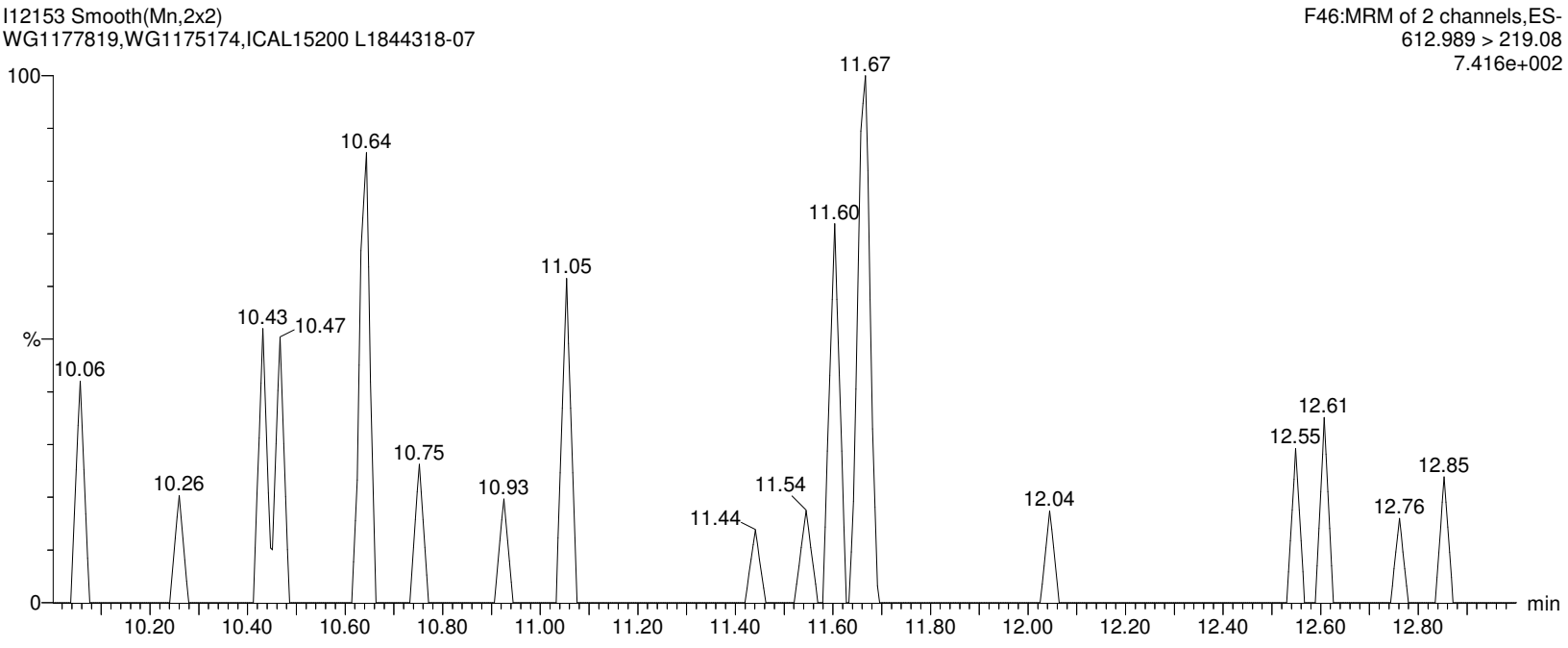

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I12153
ID: L1844318-07
Date: 10-Nov-2018
Time: 07:08:25
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User: LCMS01:AJ
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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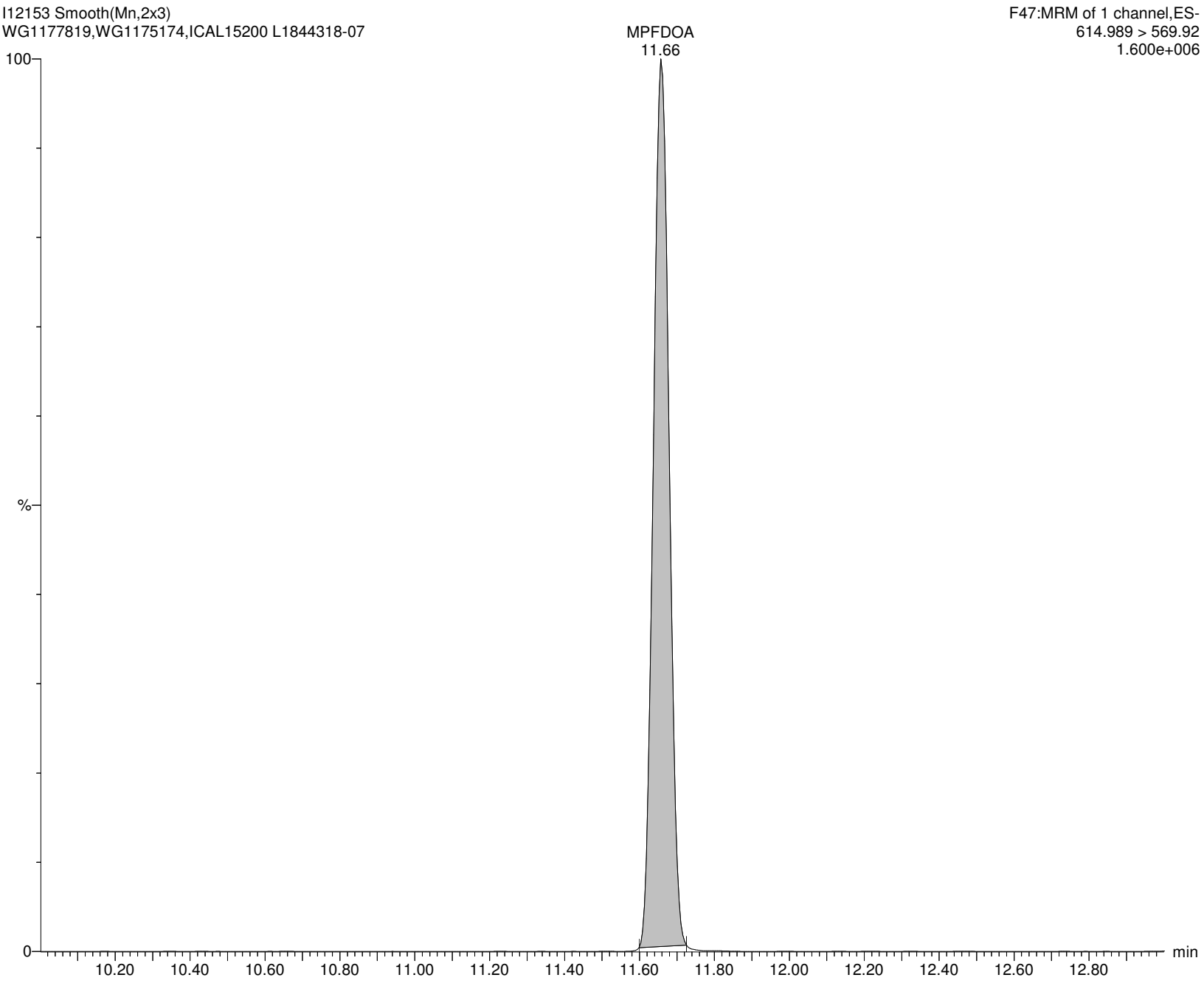

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Date: 10-Nov-2018
Time: 07:08:25
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User: LCMS01:AJ
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
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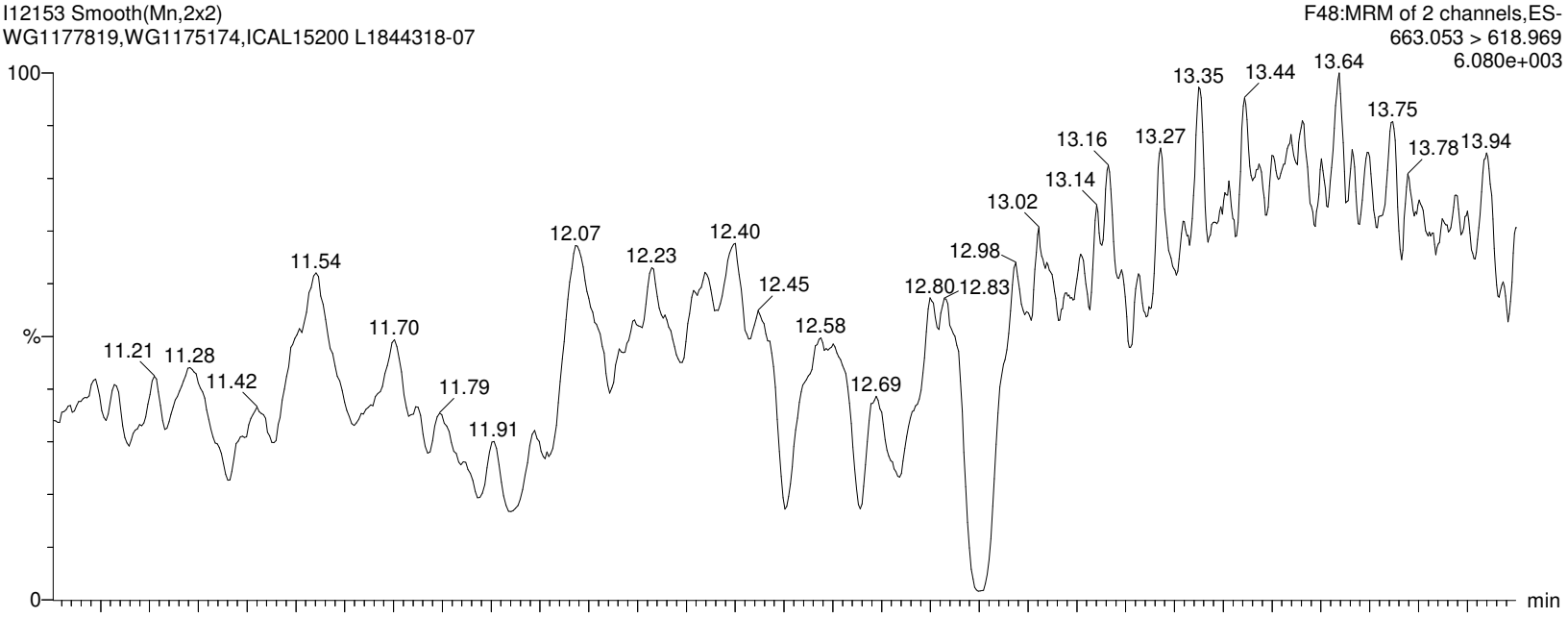

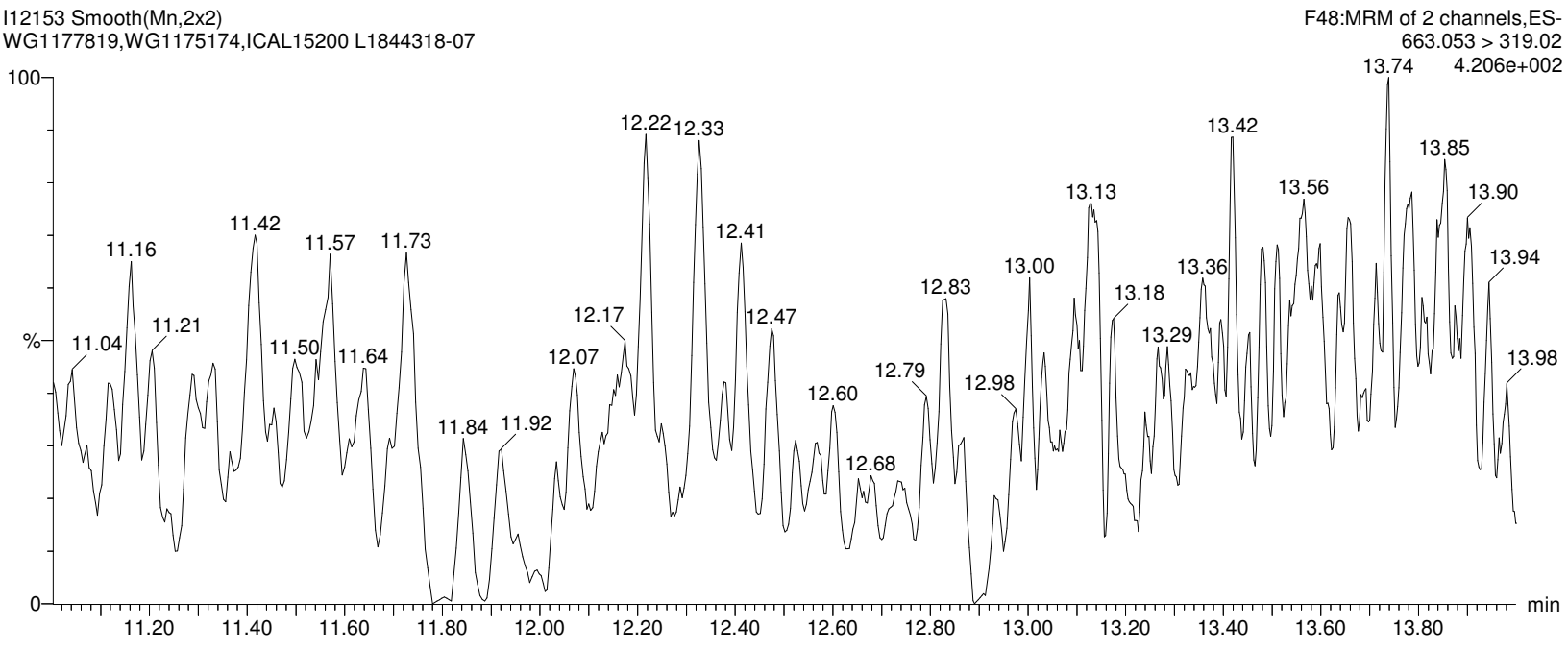

all concentration units in (ng/mL)

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Date: 10-Nov-2018
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Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
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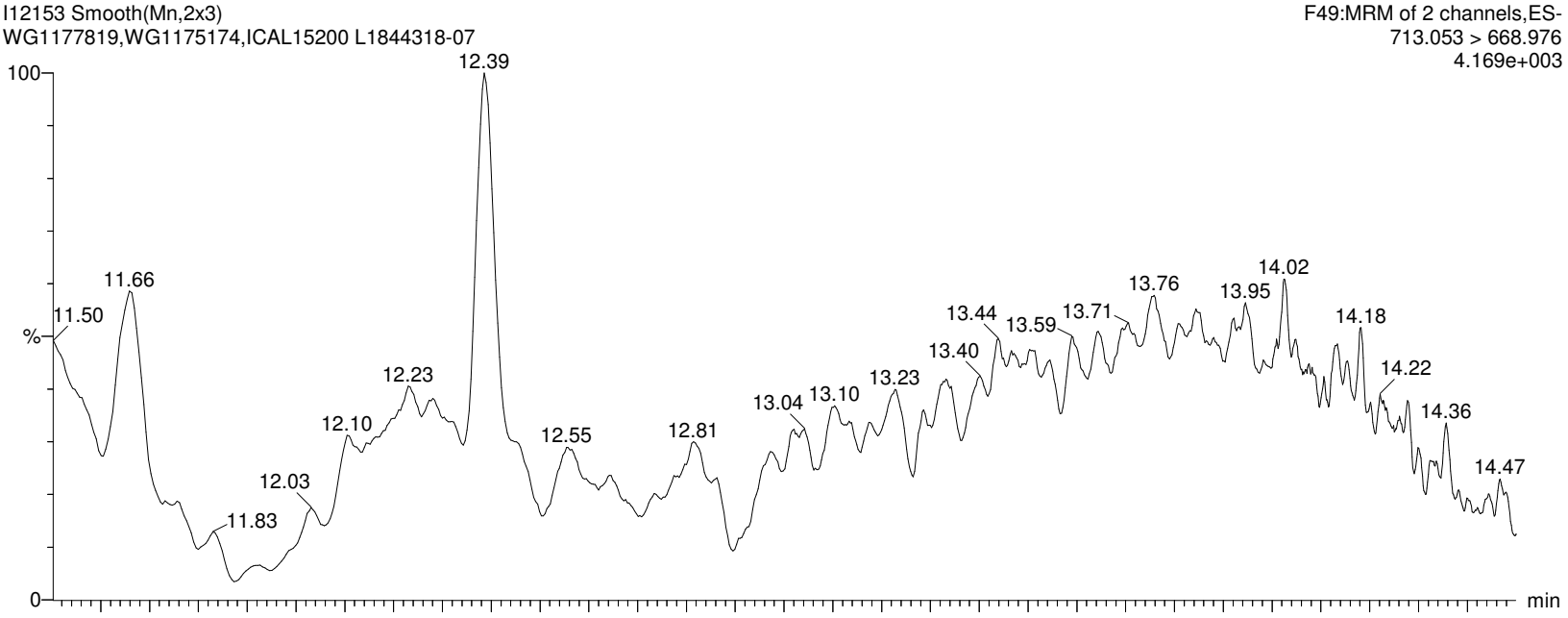

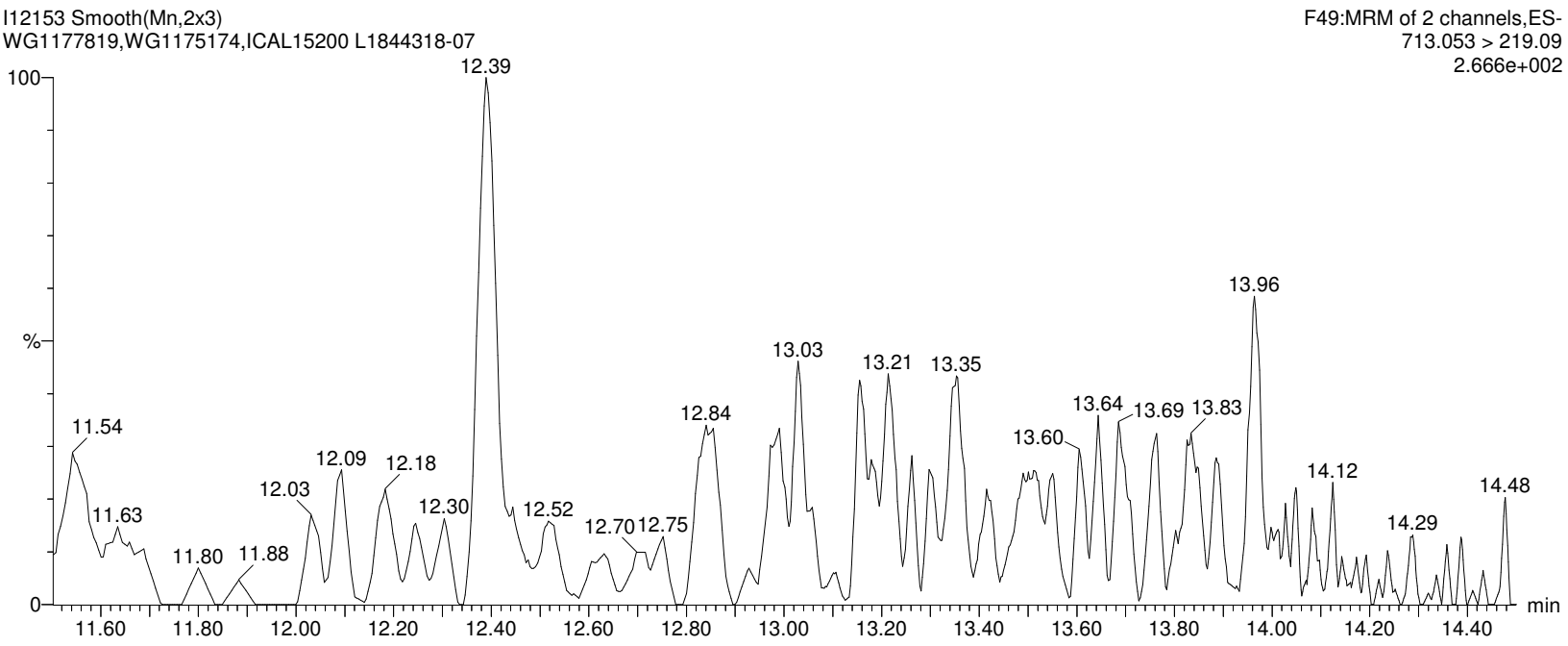

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Date: 10-Nov-2018
Time: 07:08:25
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Vial: 1:C,6
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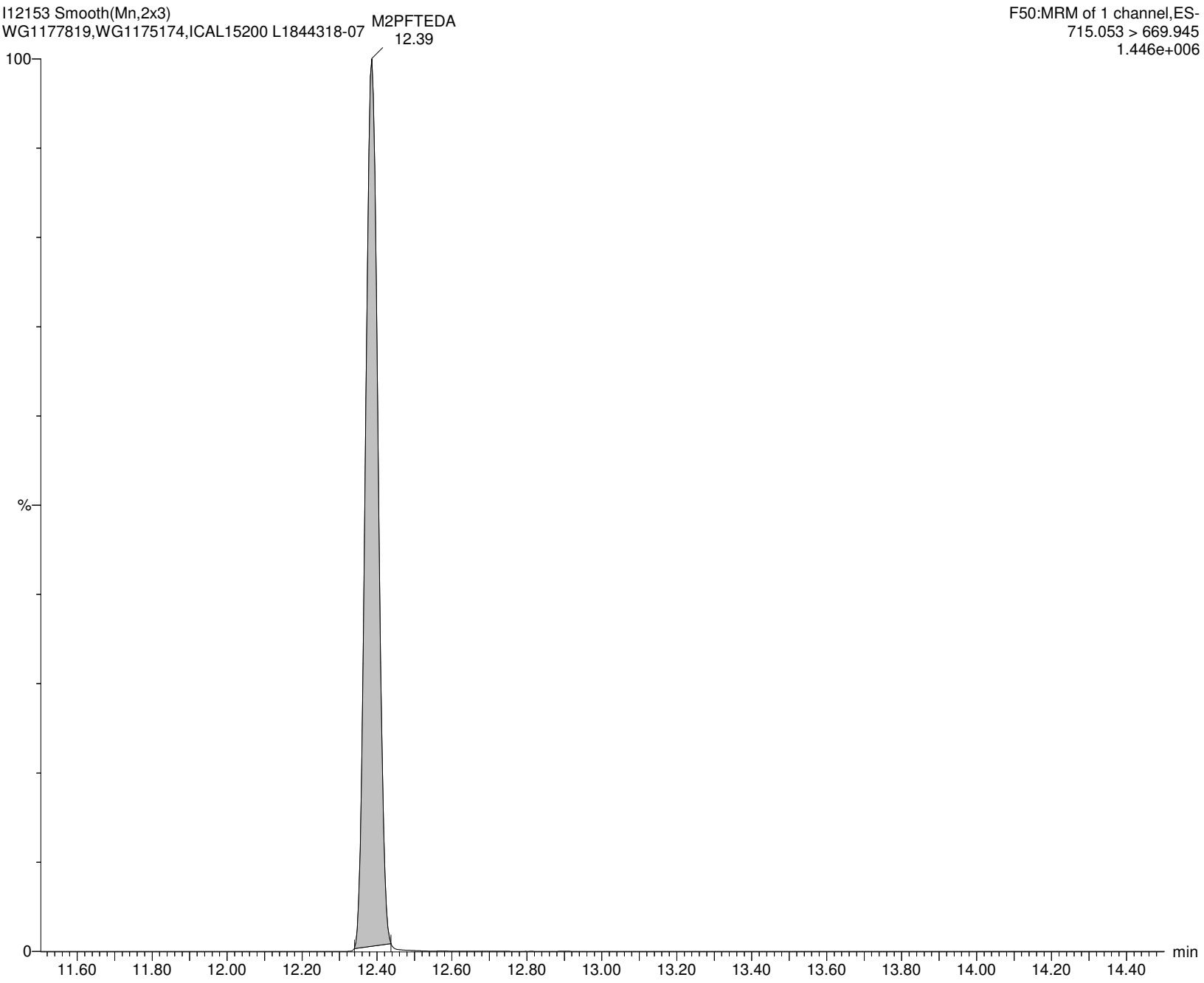

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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Printed: Monday, November 12, 2018 13:06:56 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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Time: 07:24:59
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.16	215.926 > 172.122	42193		4.558		na	45.6
3	MPFBA	INT STD	2.15	216.926 > 172.137	42100		10.504		na	105.0
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	58013		11.217		na	112.2
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	11137		8.841		na	88.4
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	5038		6.448		na	64.5
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	74525		9.425		na	94.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	96724		10.403		na	104.0
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8168		11.675		na	116.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1		412.989 > 368.9			ND		na	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	109753		5.813		na	58.1
22	PFOA	335-67-1		412.989 > 368.9	0		ND		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	91838		10.376		na	103.8
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	3943		6.080		na	60.8
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	84710		9.596		na	96.0
29	br-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
31	PFOS	1763-23-1		498.989 > 80.294	0		ND		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10105		6.238		na	62.4
33	M8PFOS	INT STD	10.07	507.053 > 80.294	9952		10.562		na	105.6
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	83733		5.632		na	56.3
36	M6PFDA	INT STD	10.65	519.053 > 473.931	78293		10.356		na	103.6
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2354		6.180		na	61.8
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:56 Eastern Standard Time

ID: L1844318-08
Name: I12154
Date: 10-Nov-2018
Time: 07:24:59
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	5560		6.821		na	68.2
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	70580		11.153		na	111.5
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	4763		1.766		na	17.7
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	4948		6.293		na	62.9
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	68348		9.613		na	96.1
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	55424		10.524		na	105.2

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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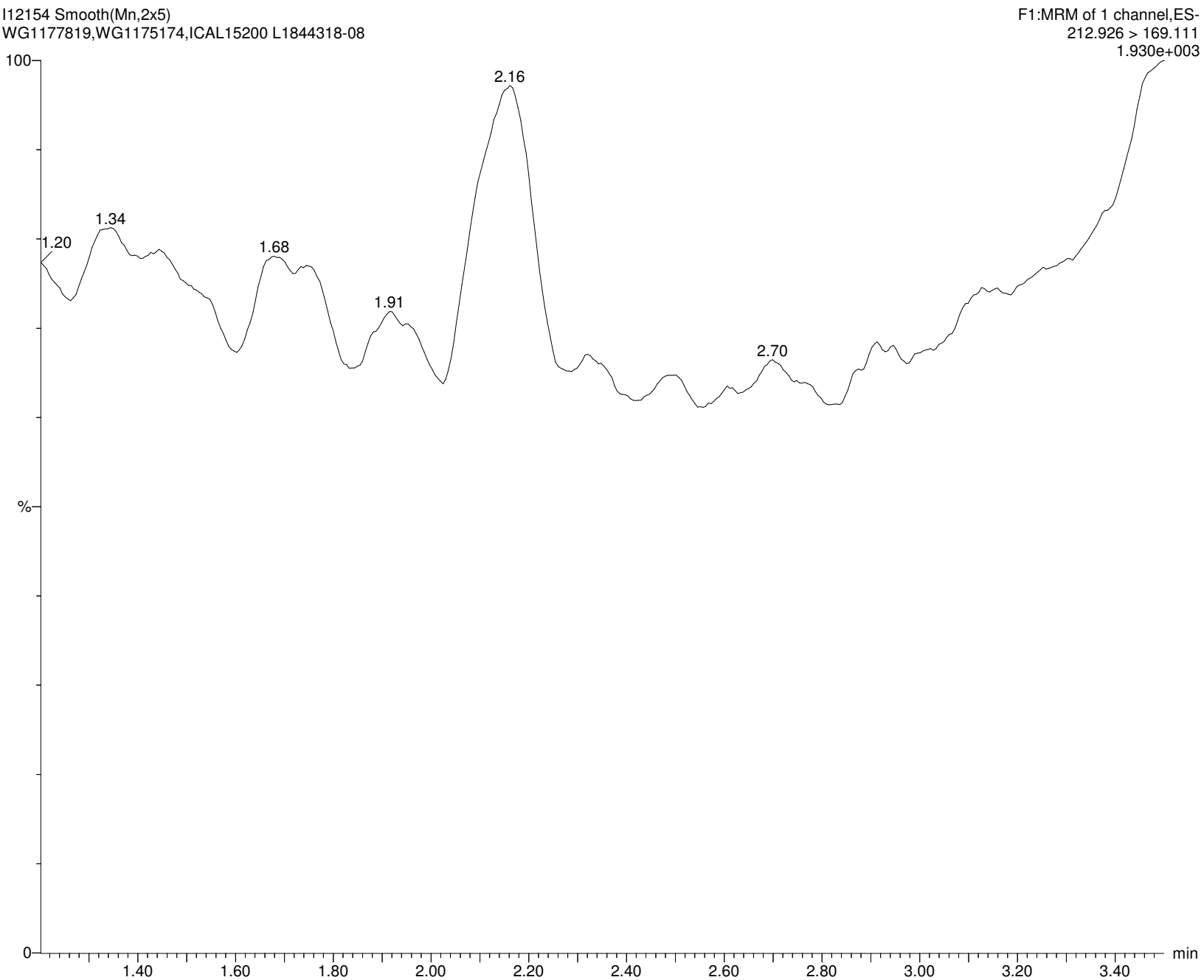

all concentration units in (ng/mL)

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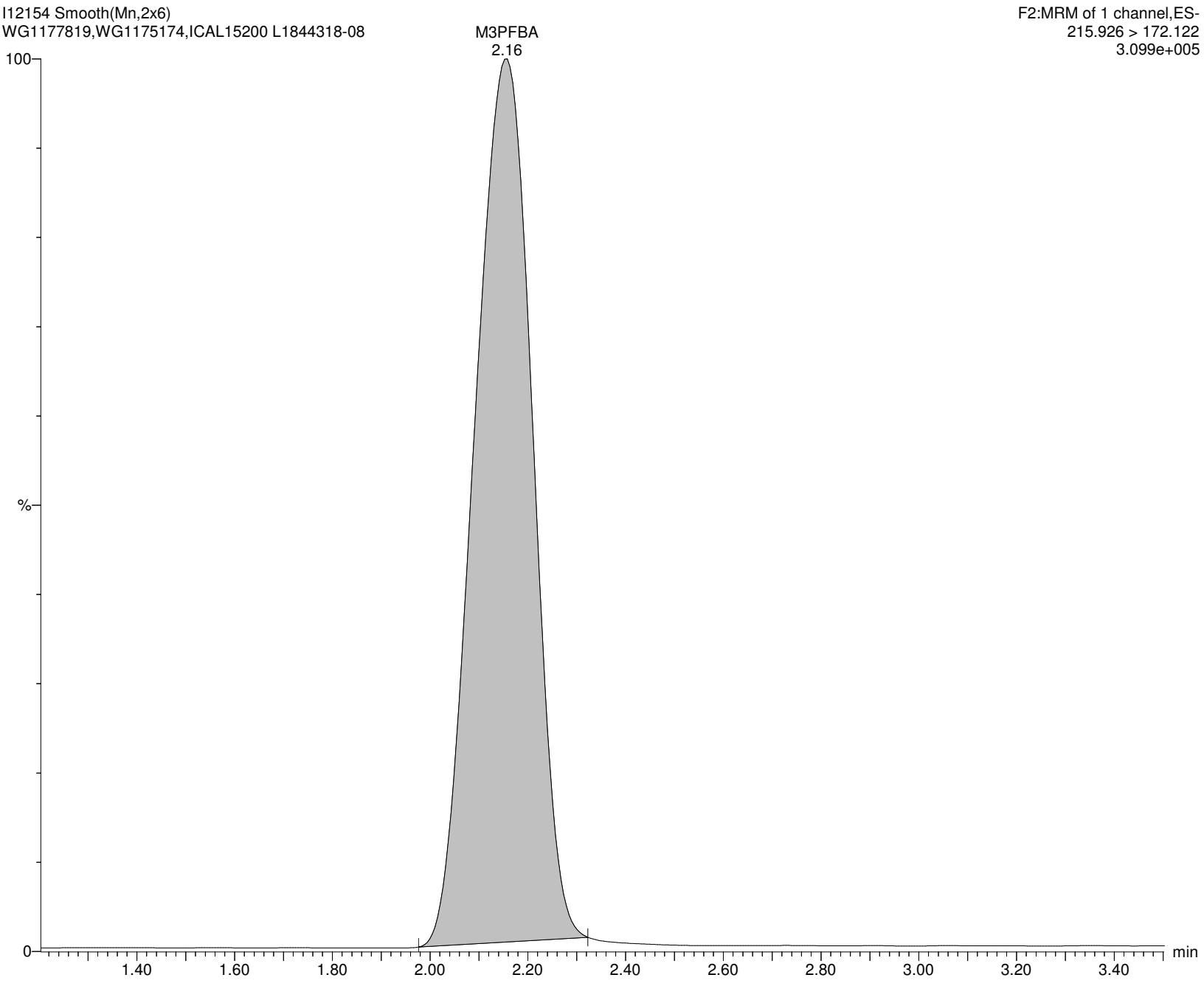

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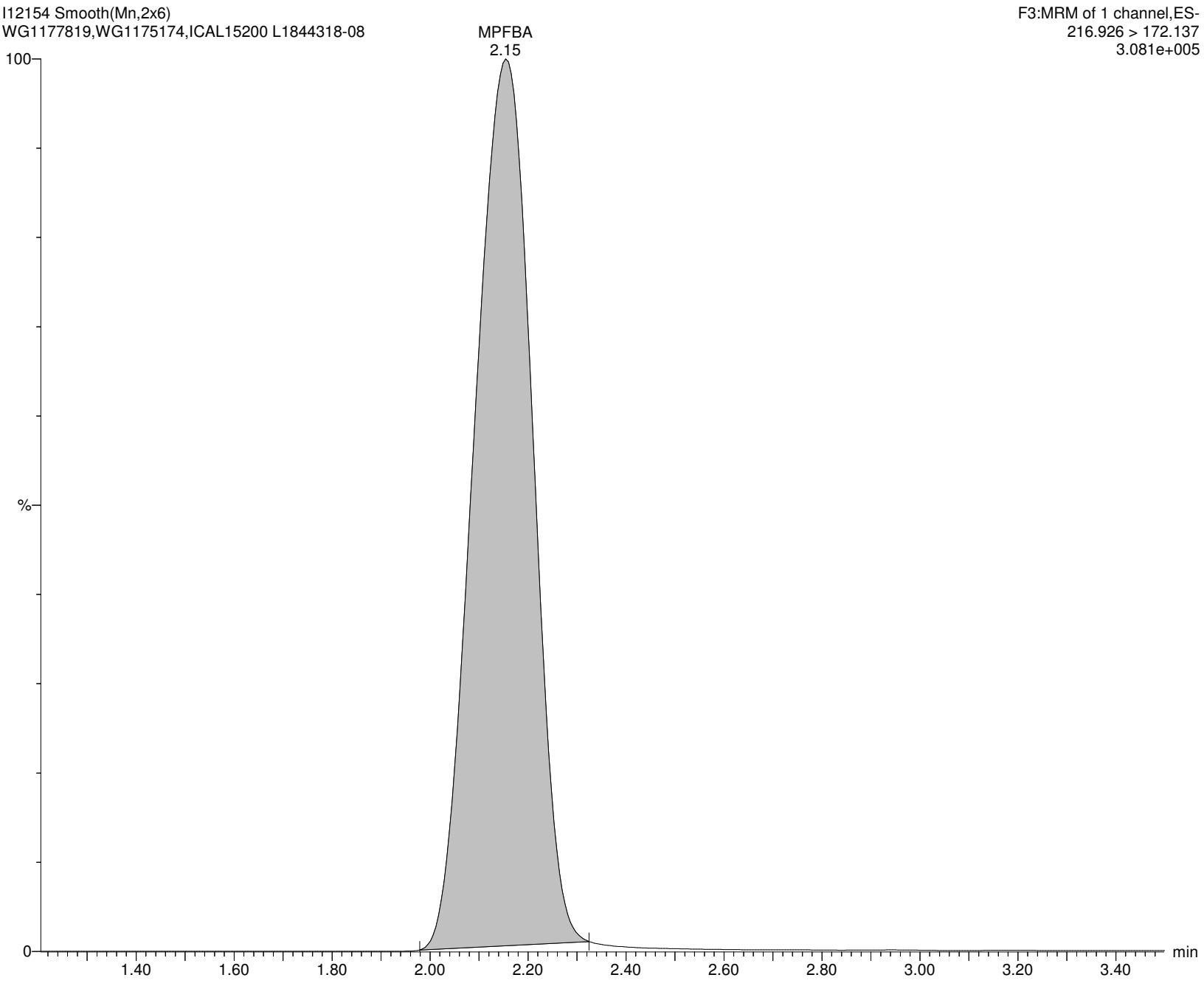

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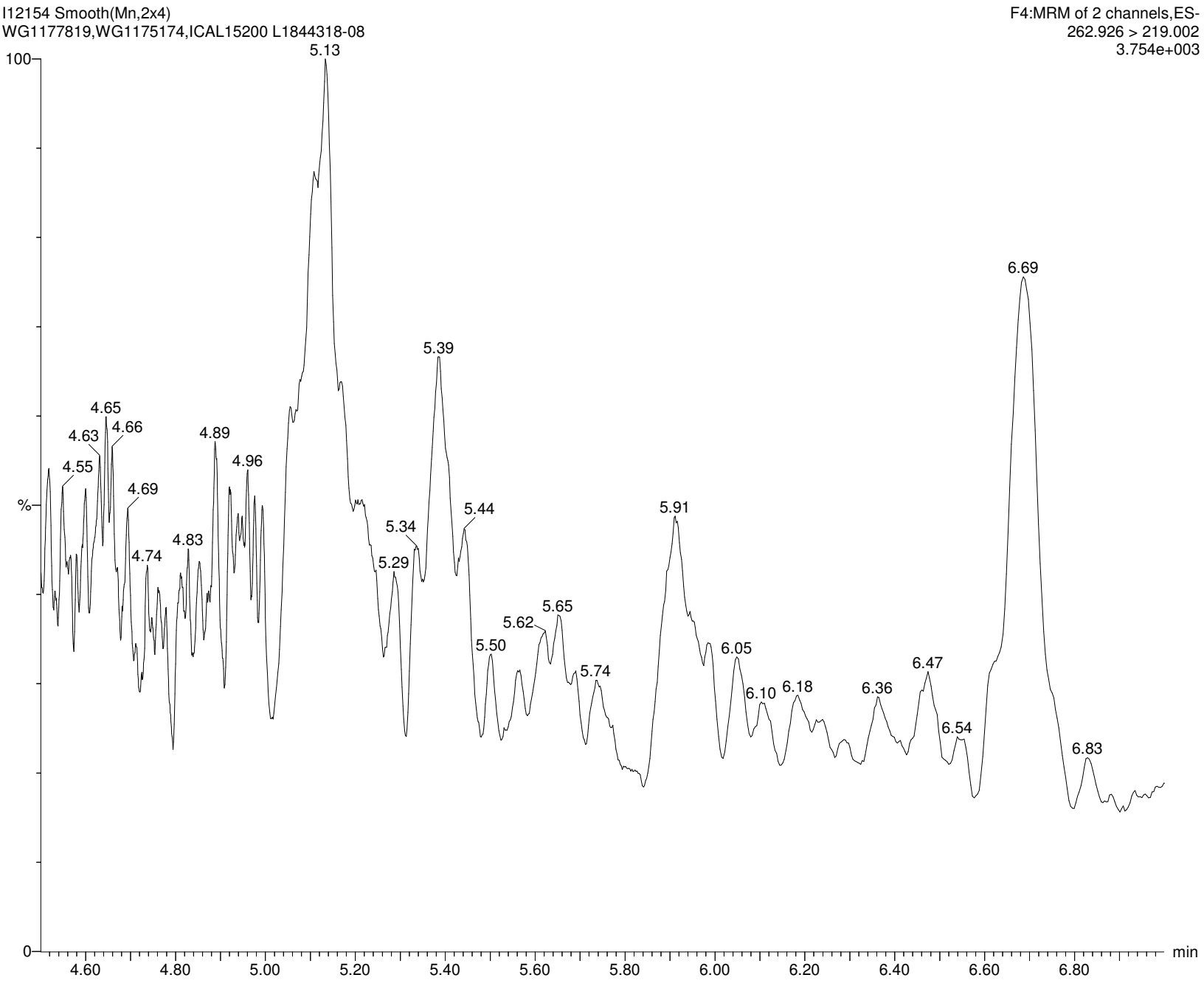

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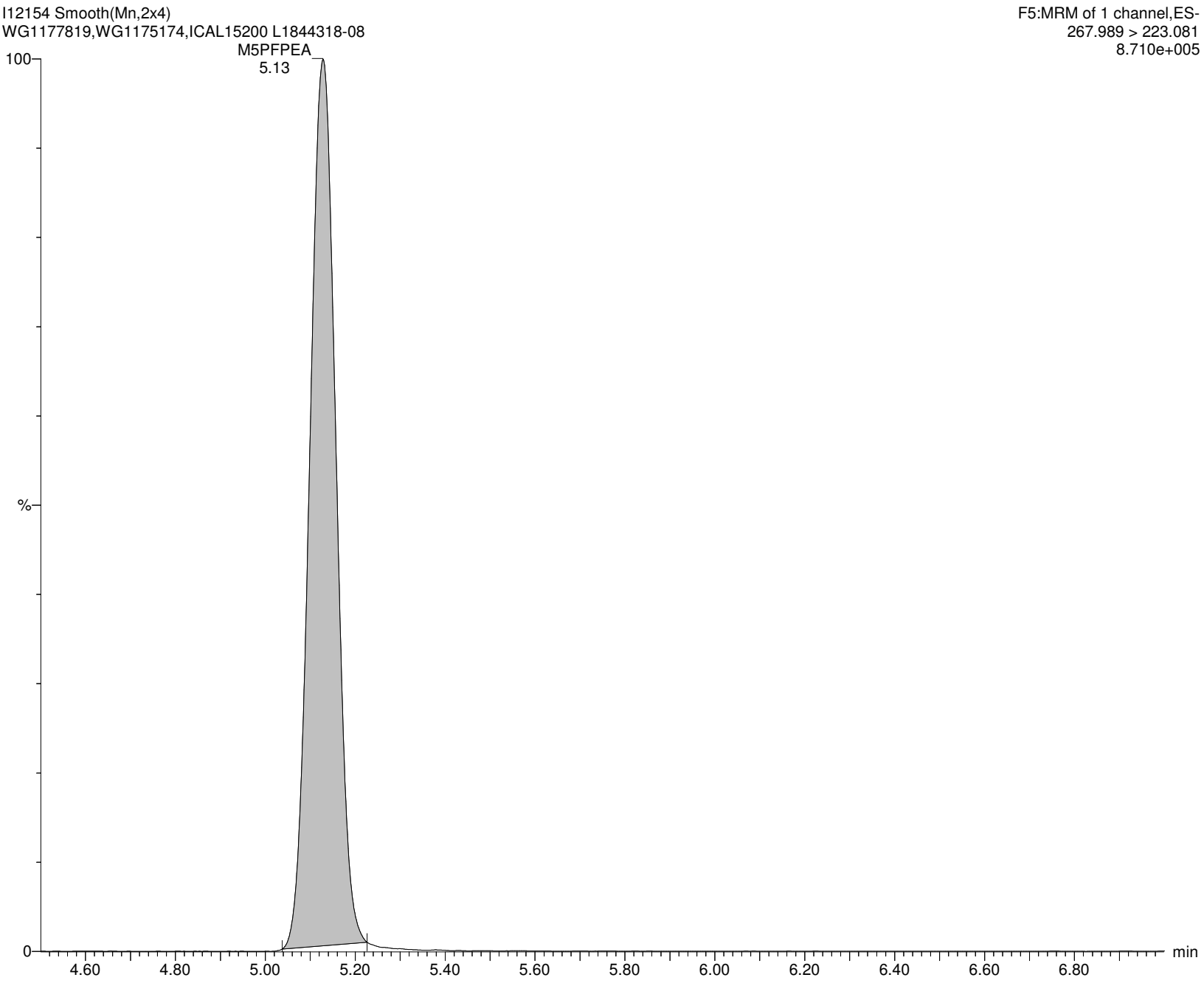

all concentration units in (ng/mL)

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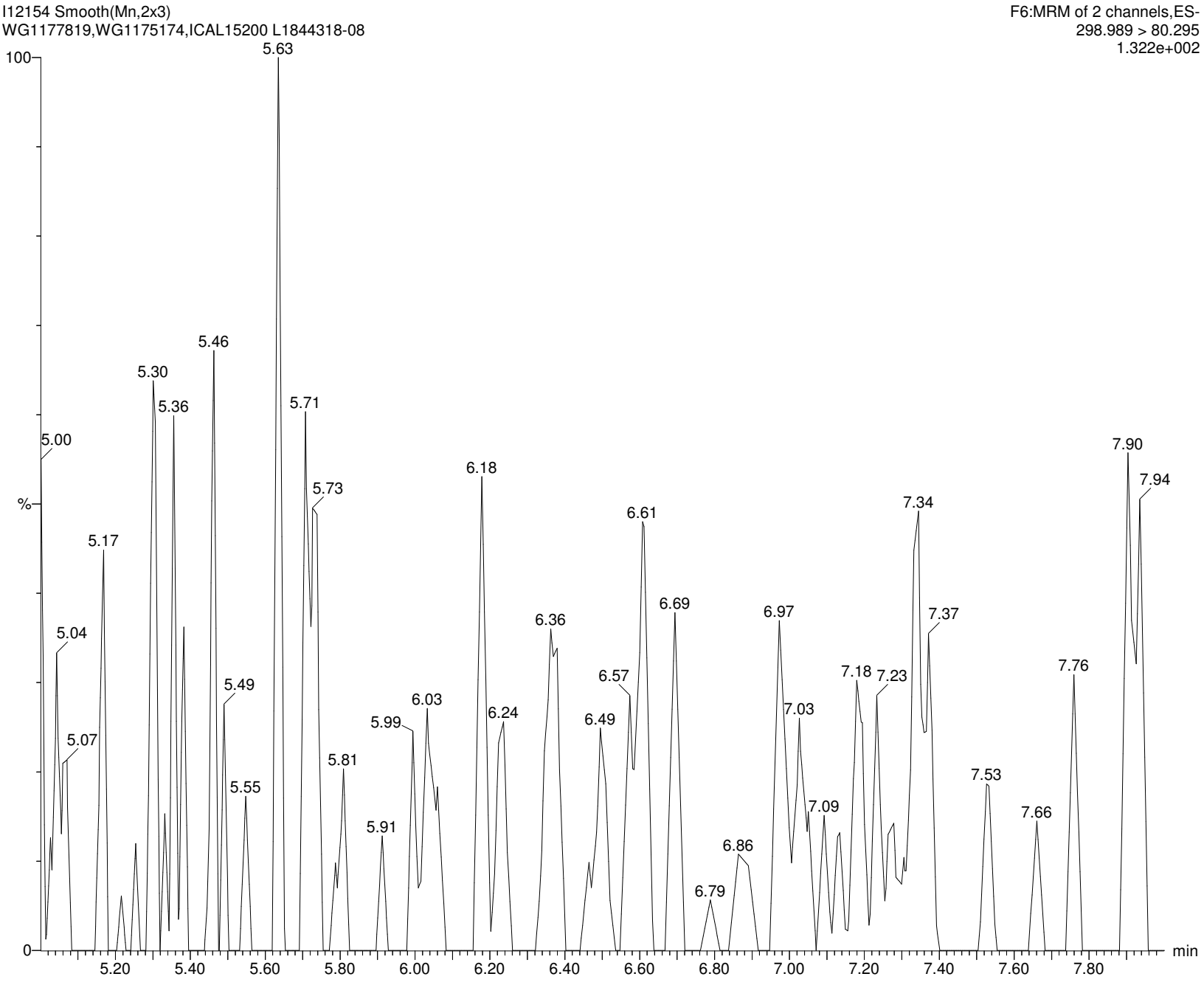

all concentration units in (ng/mL)

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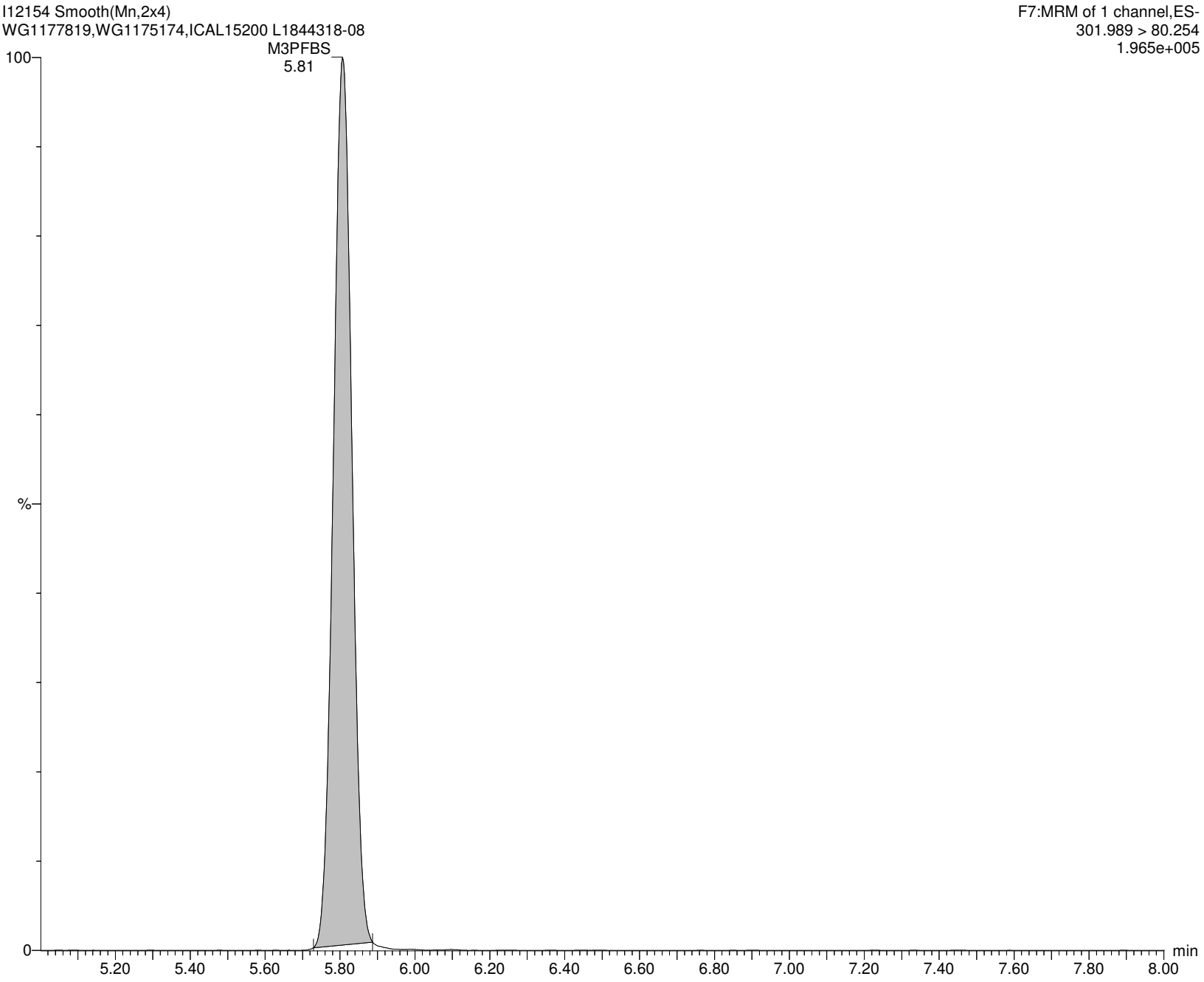

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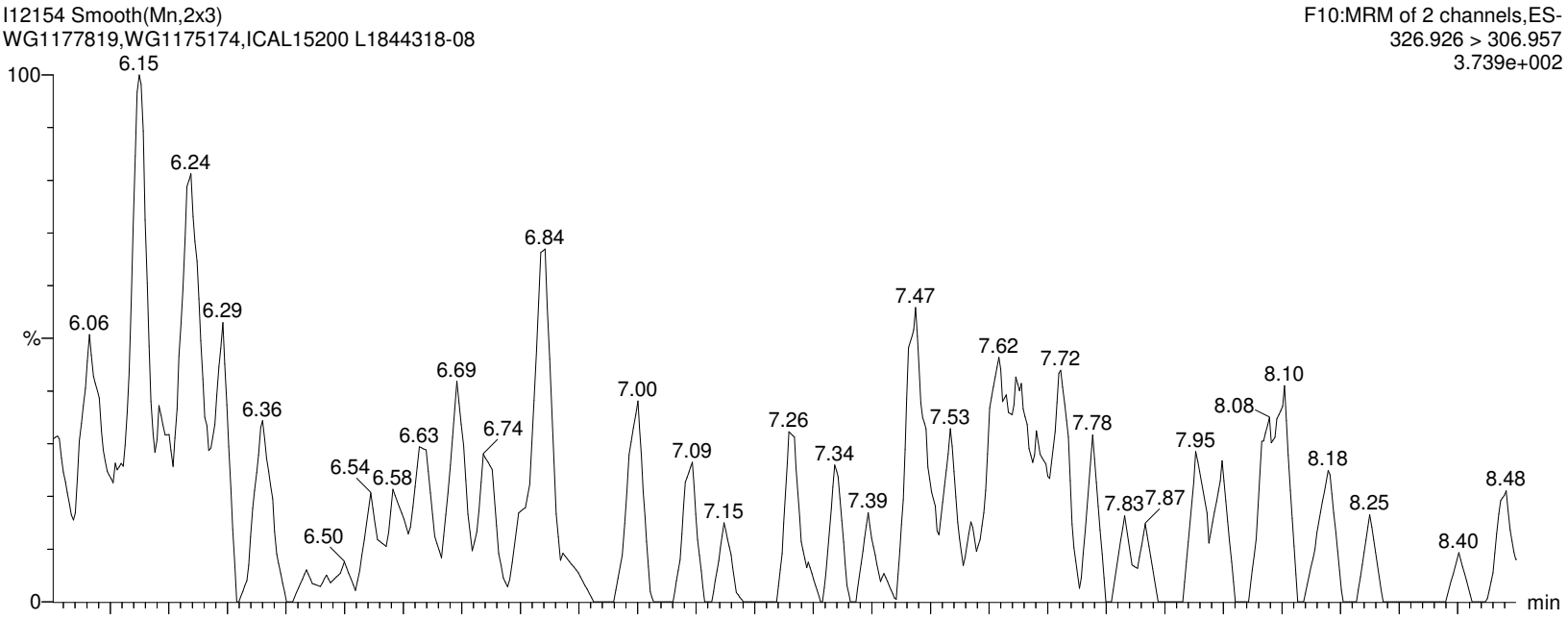

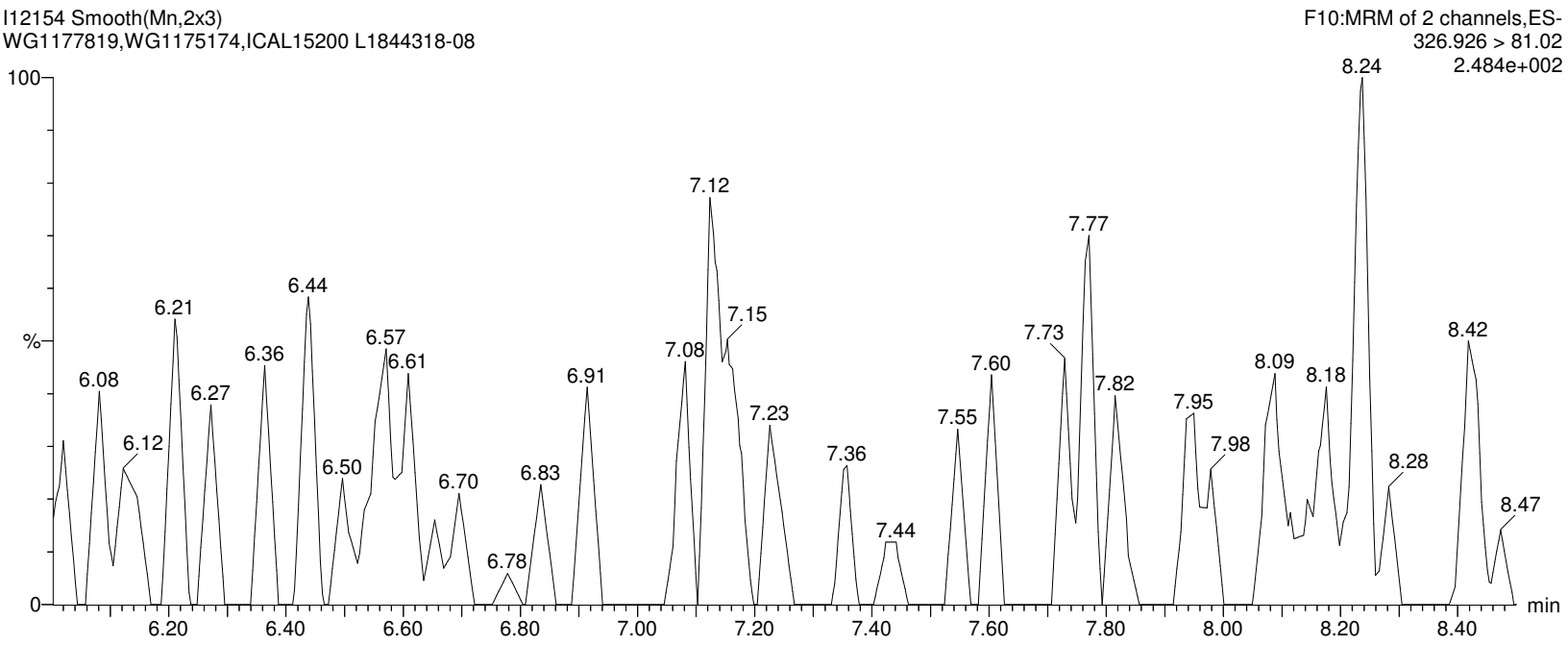

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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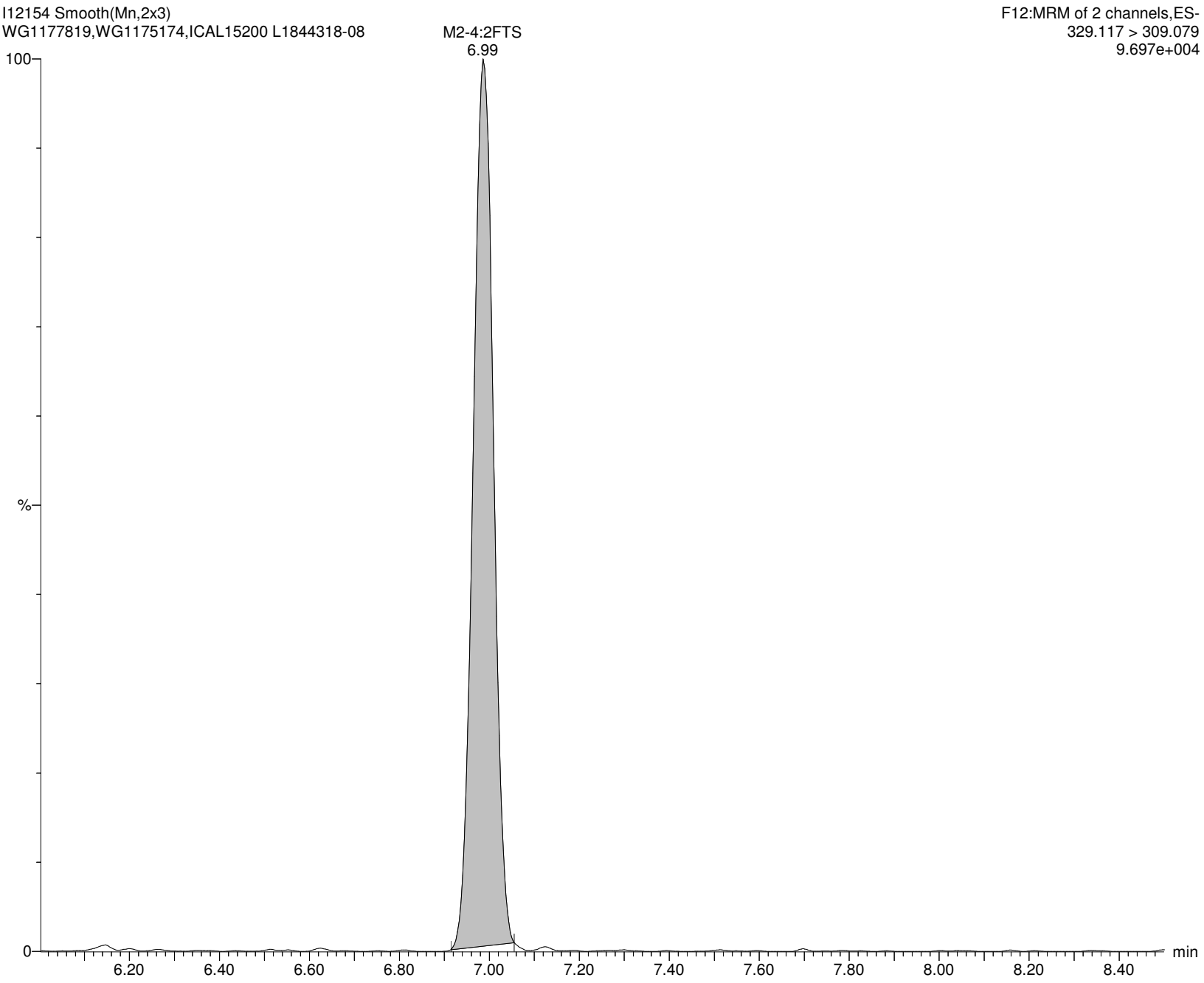

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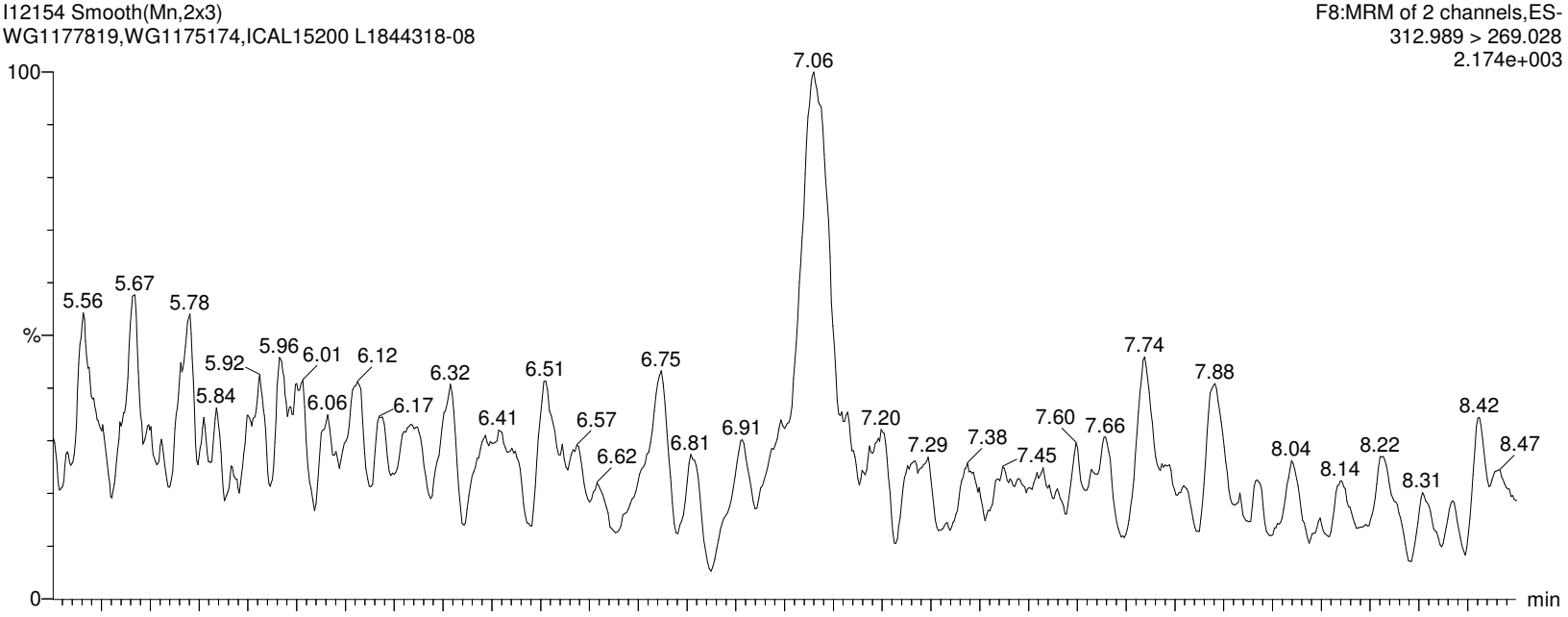

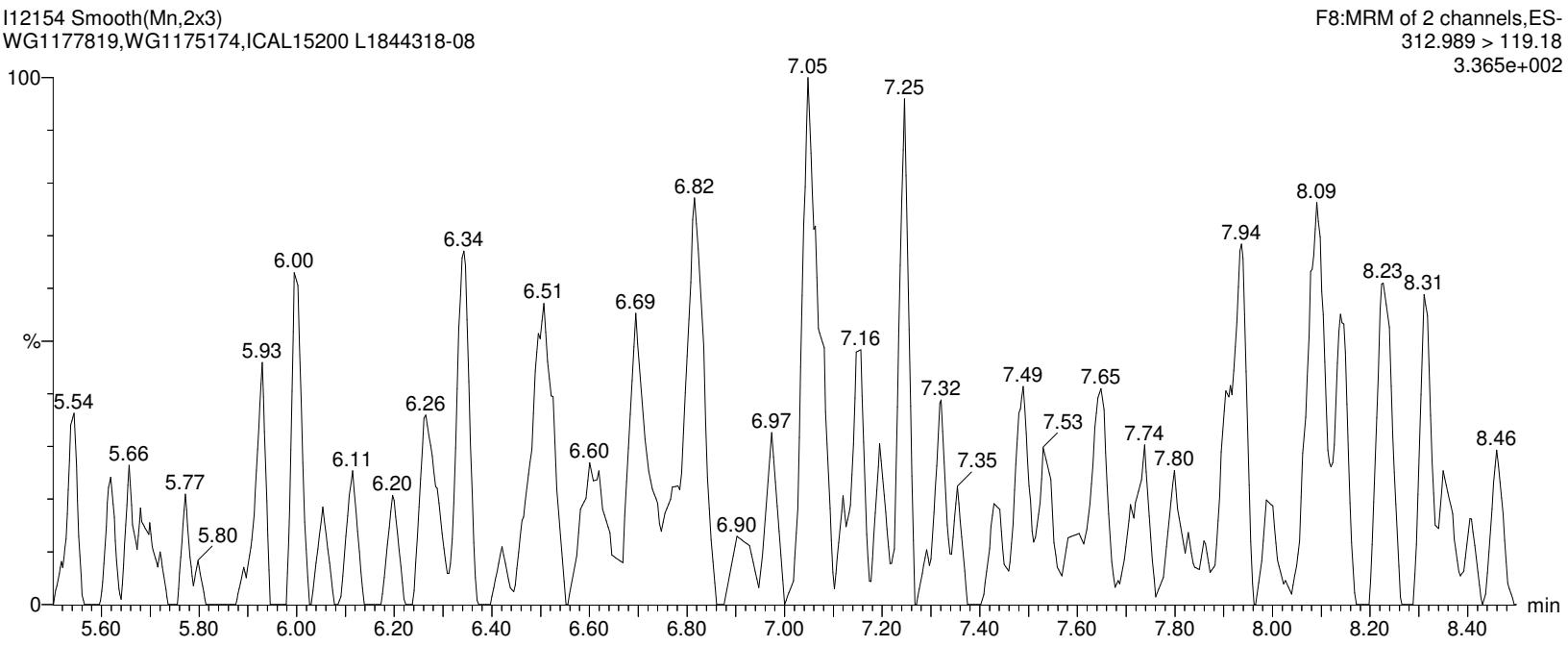

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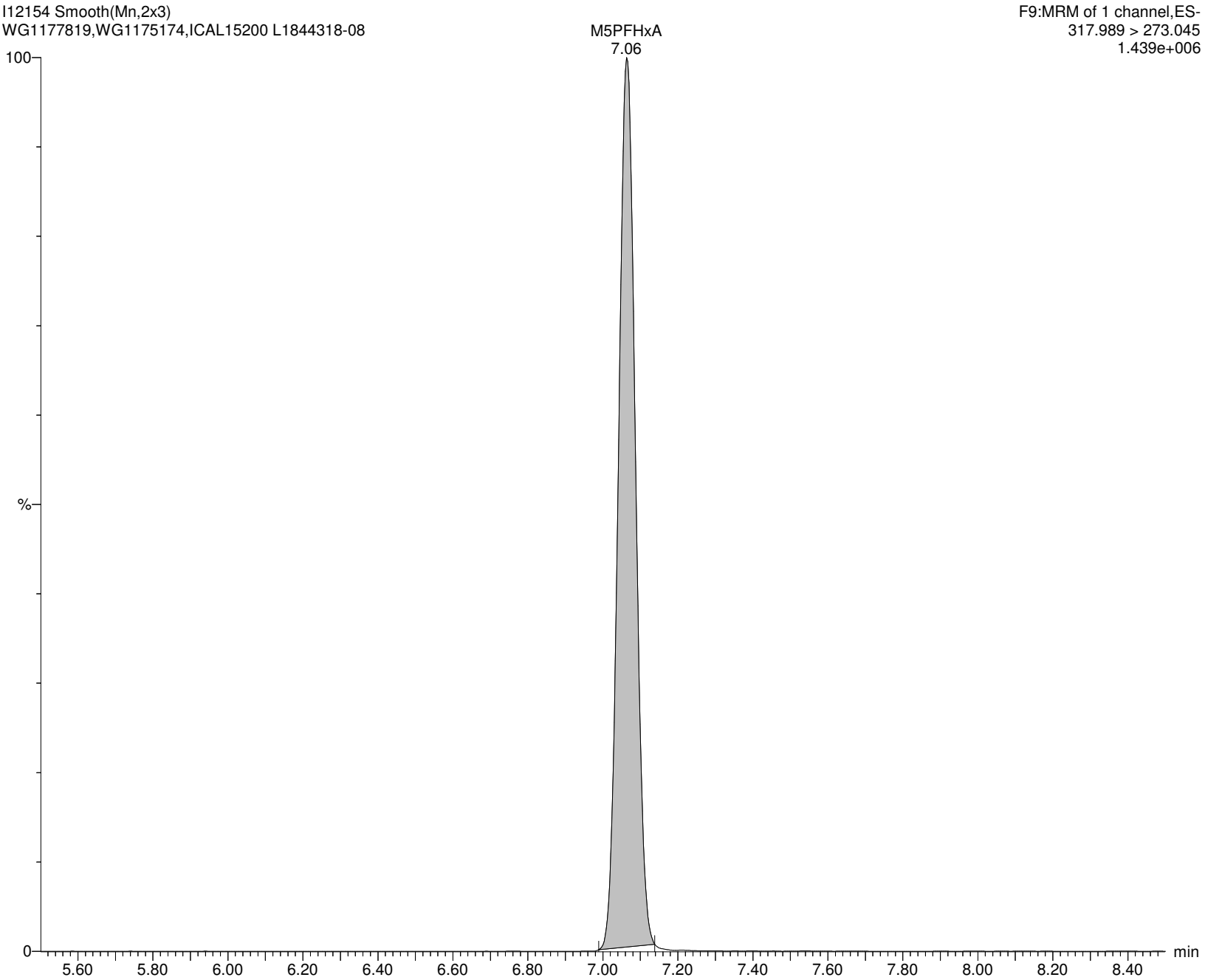

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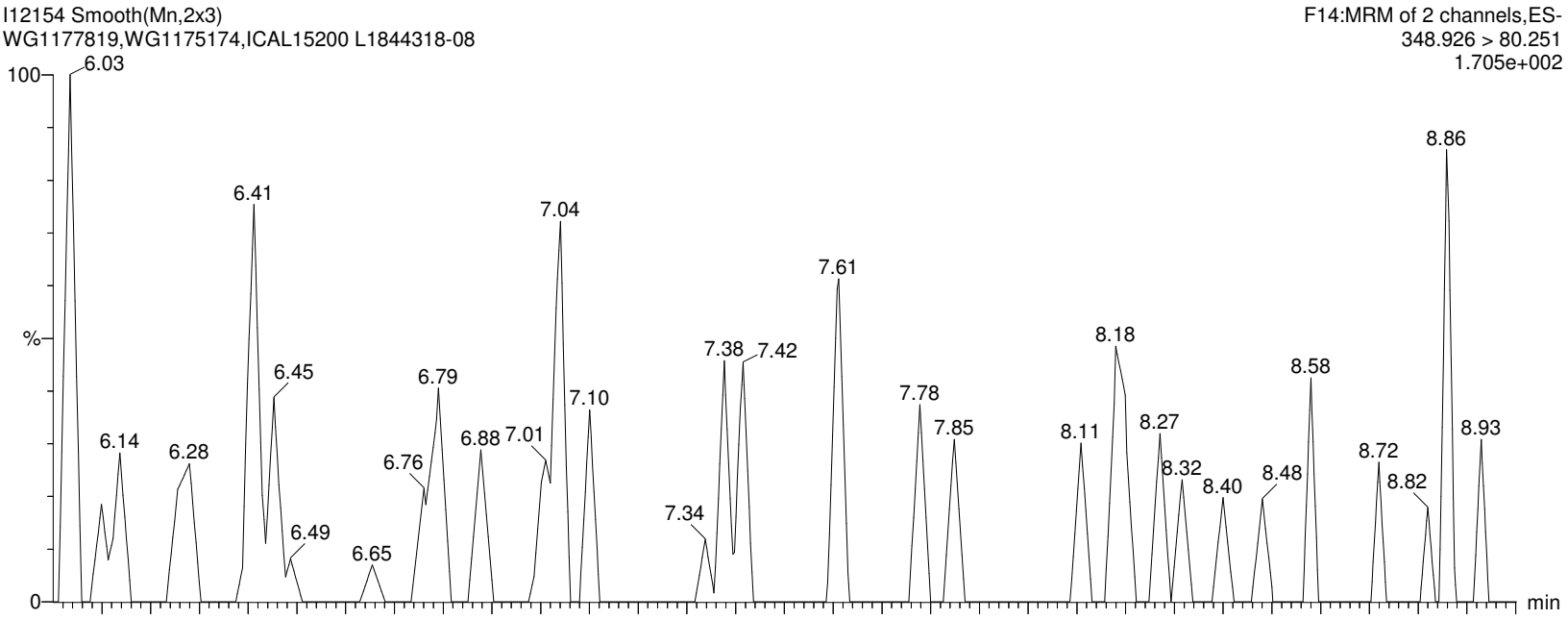

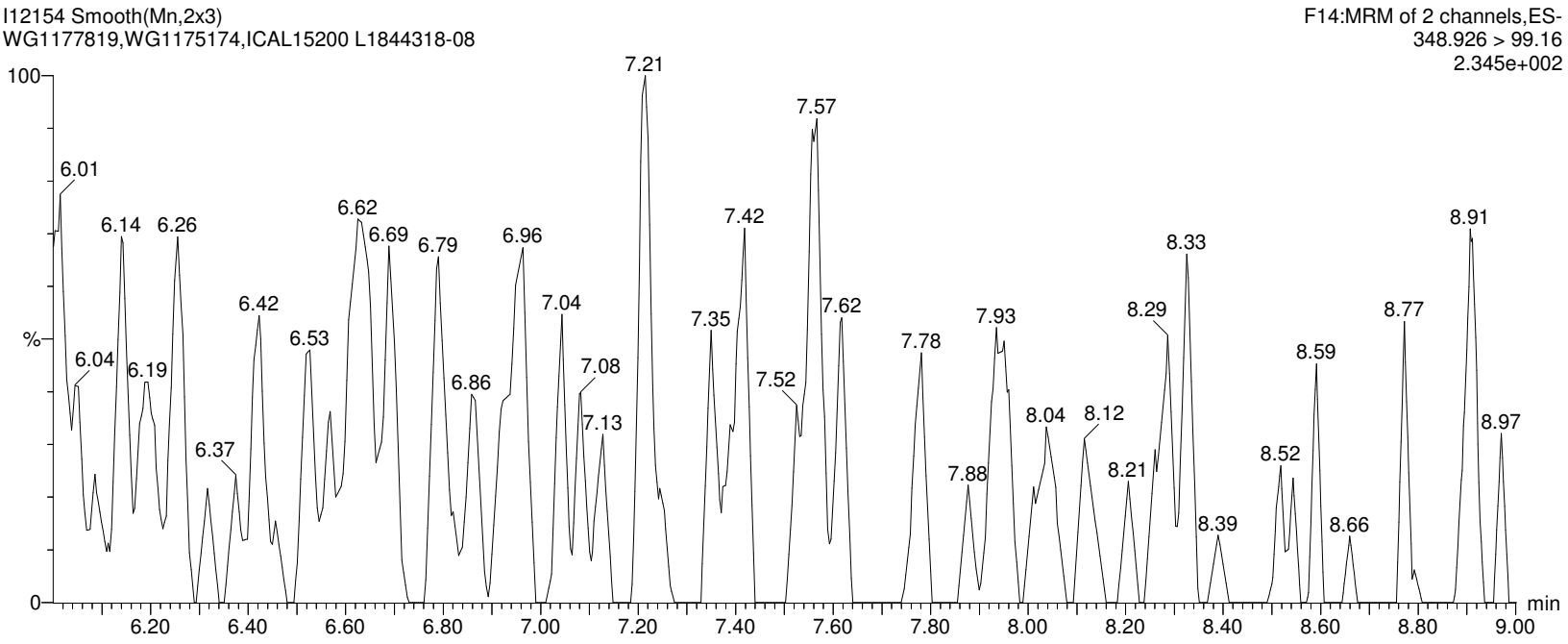

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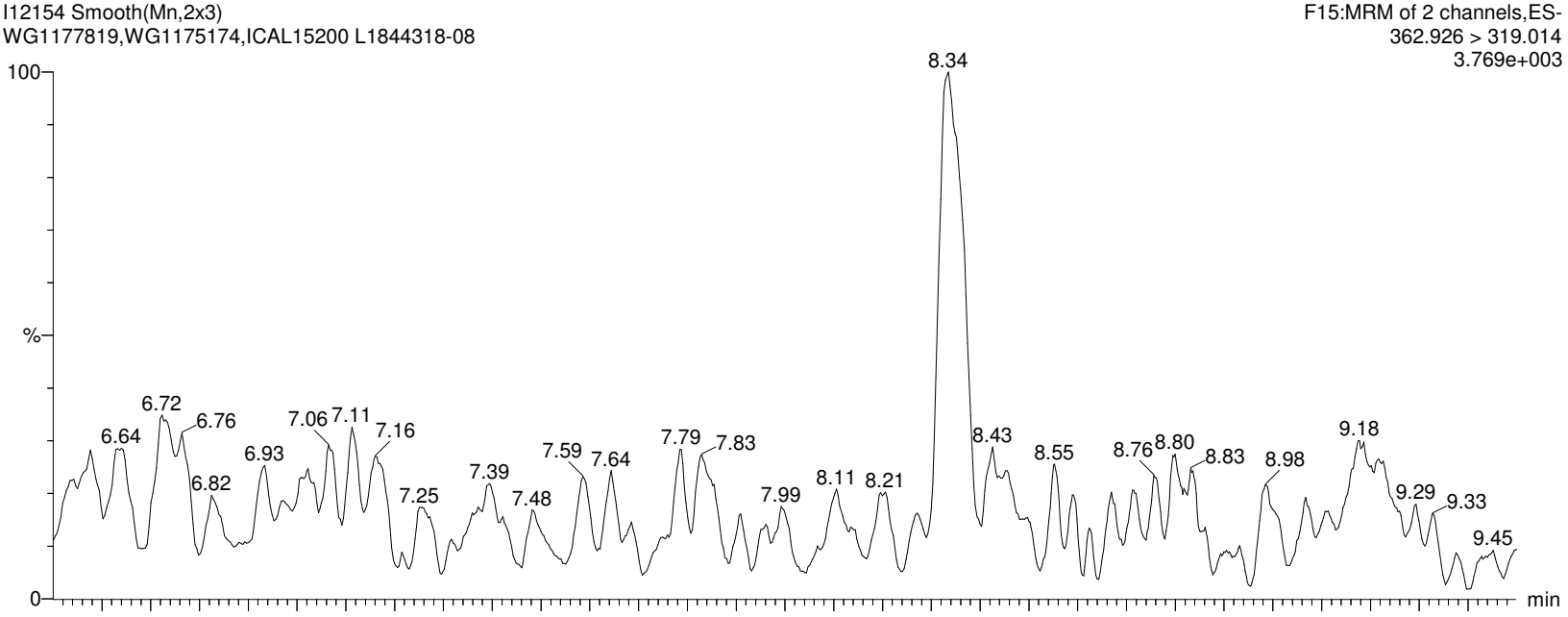

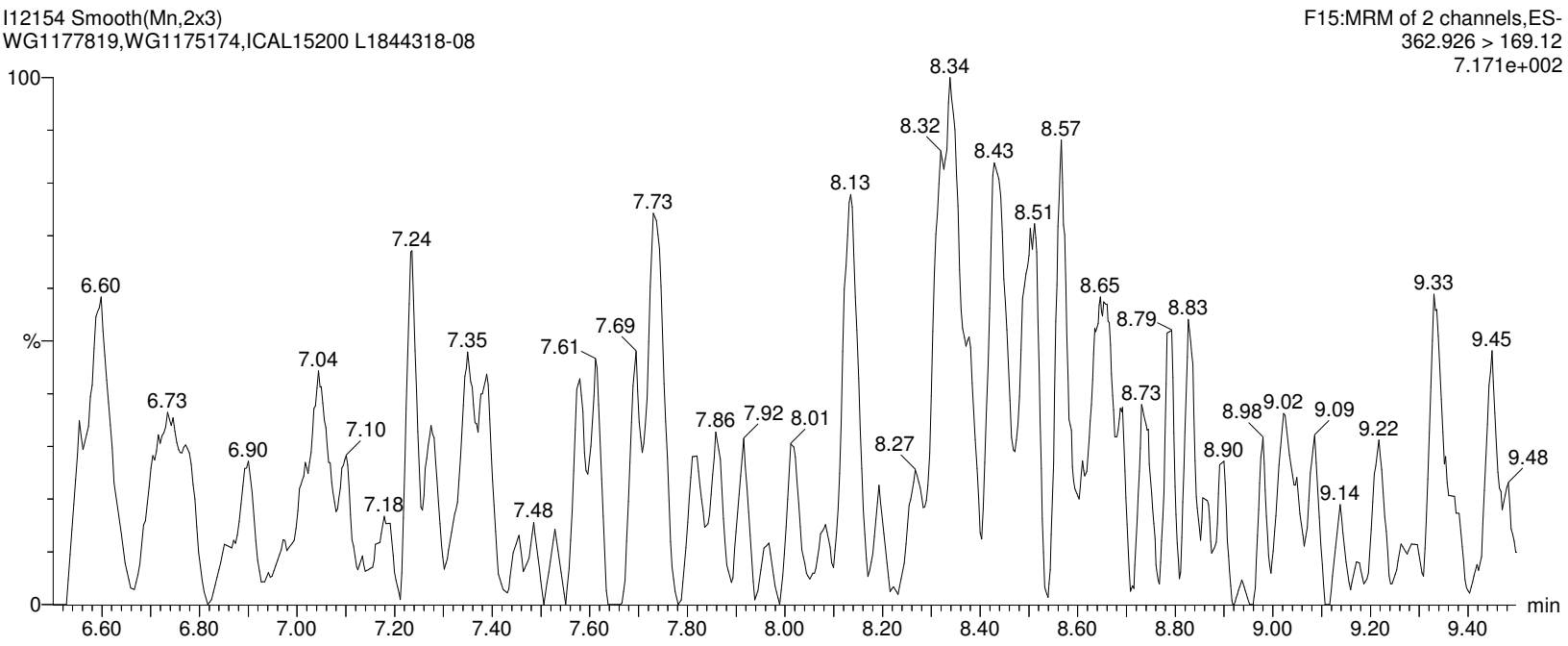

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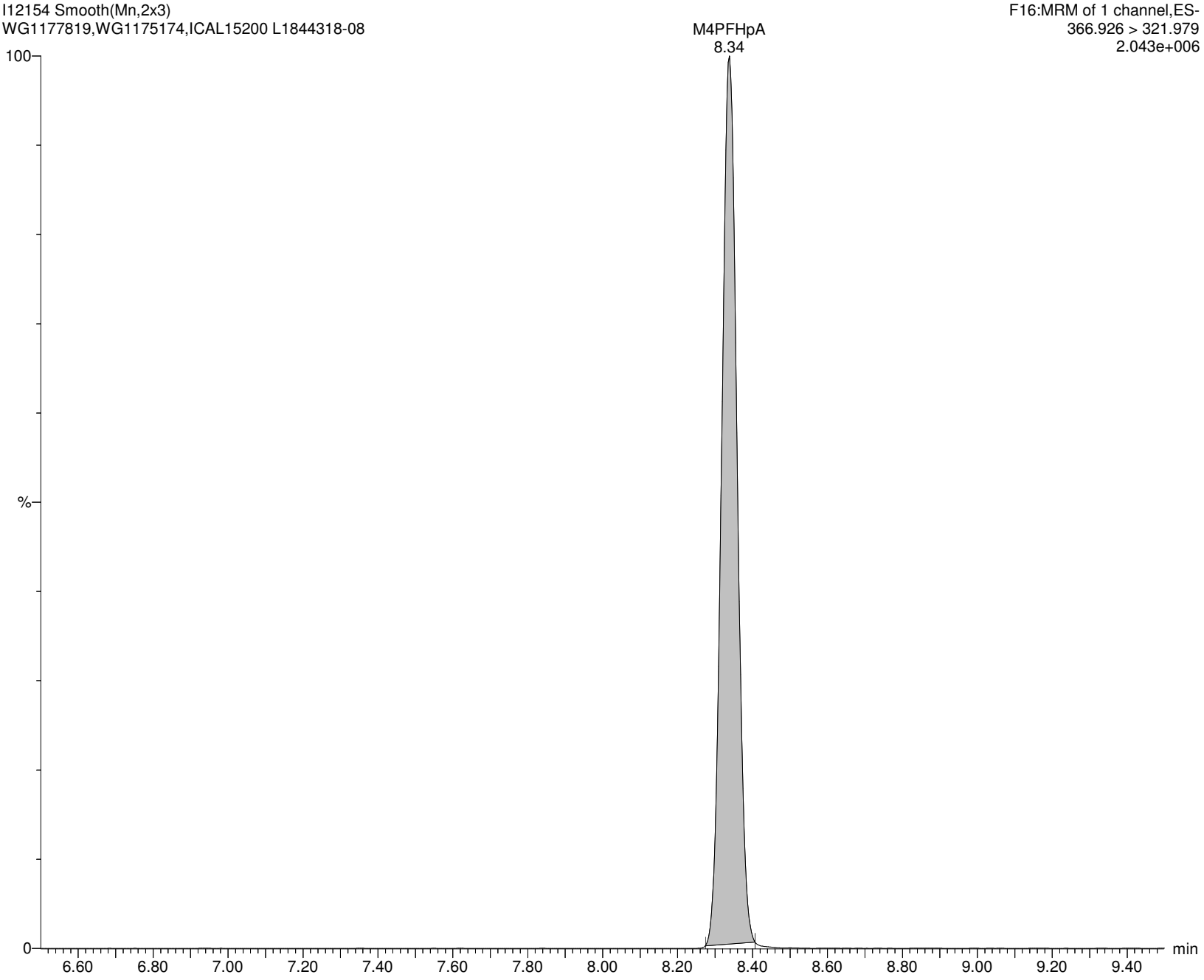

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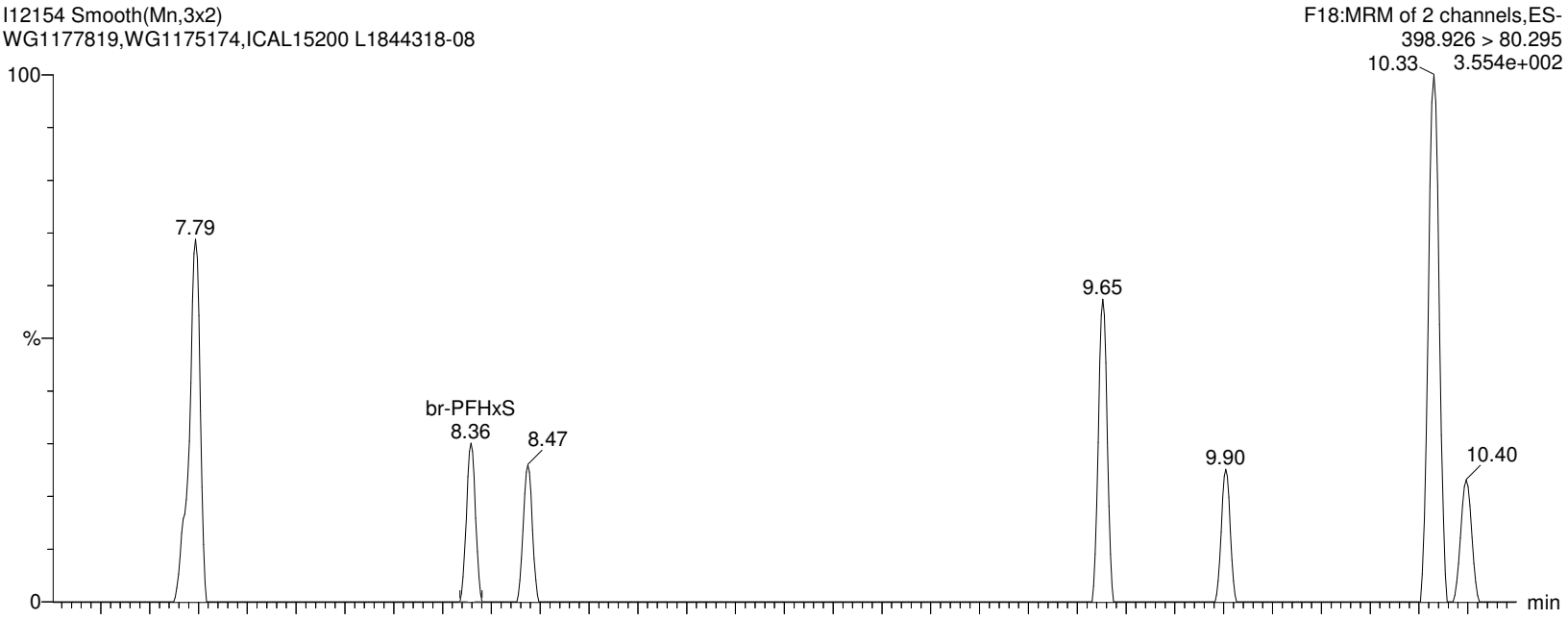

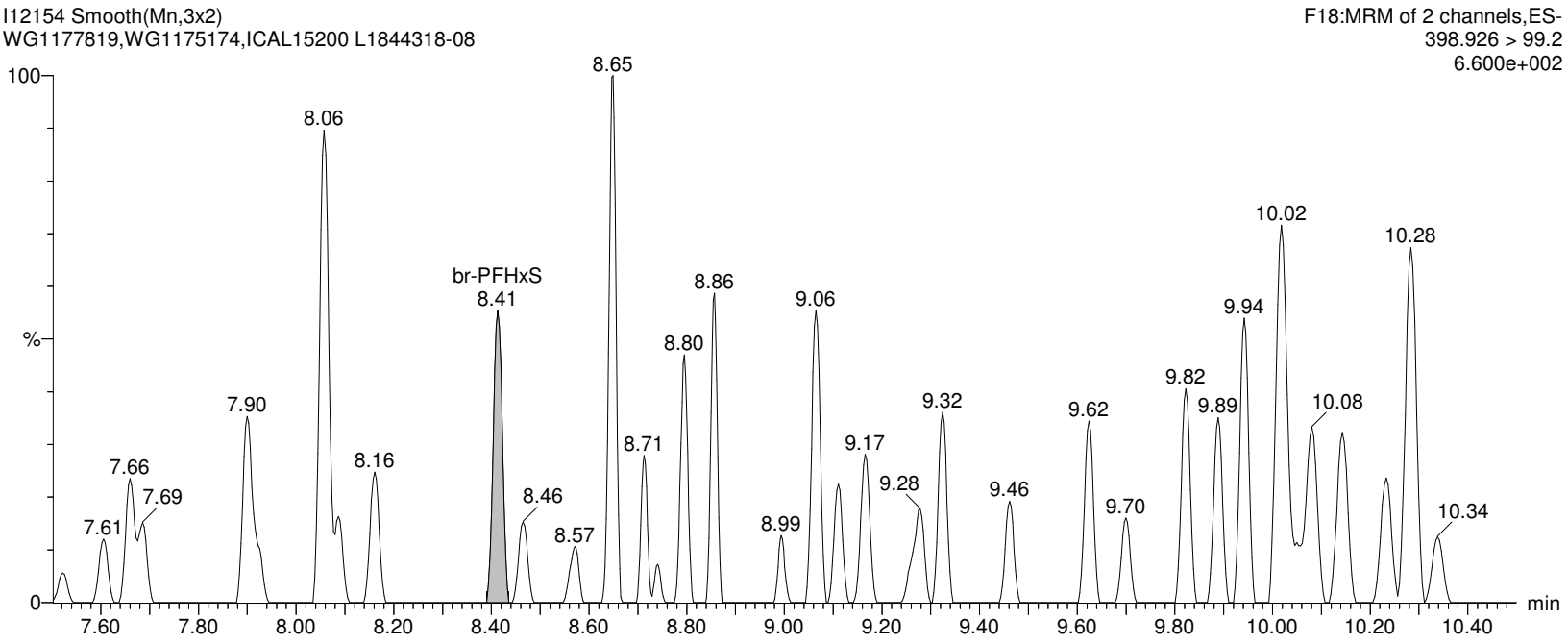

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:56 Eastern Standard Time

Name: I12154
ID: L1844318-08
Date: 10-Nov-2018
Time: 07:24:59
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
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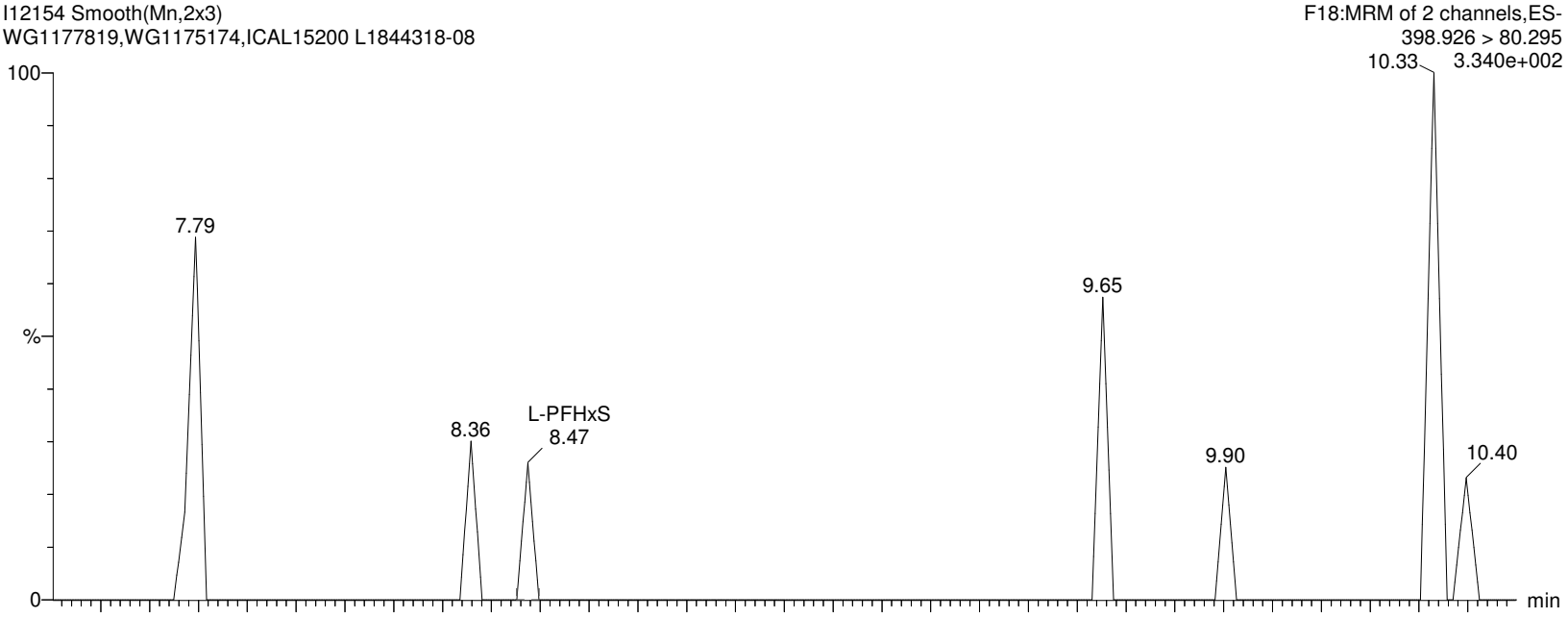

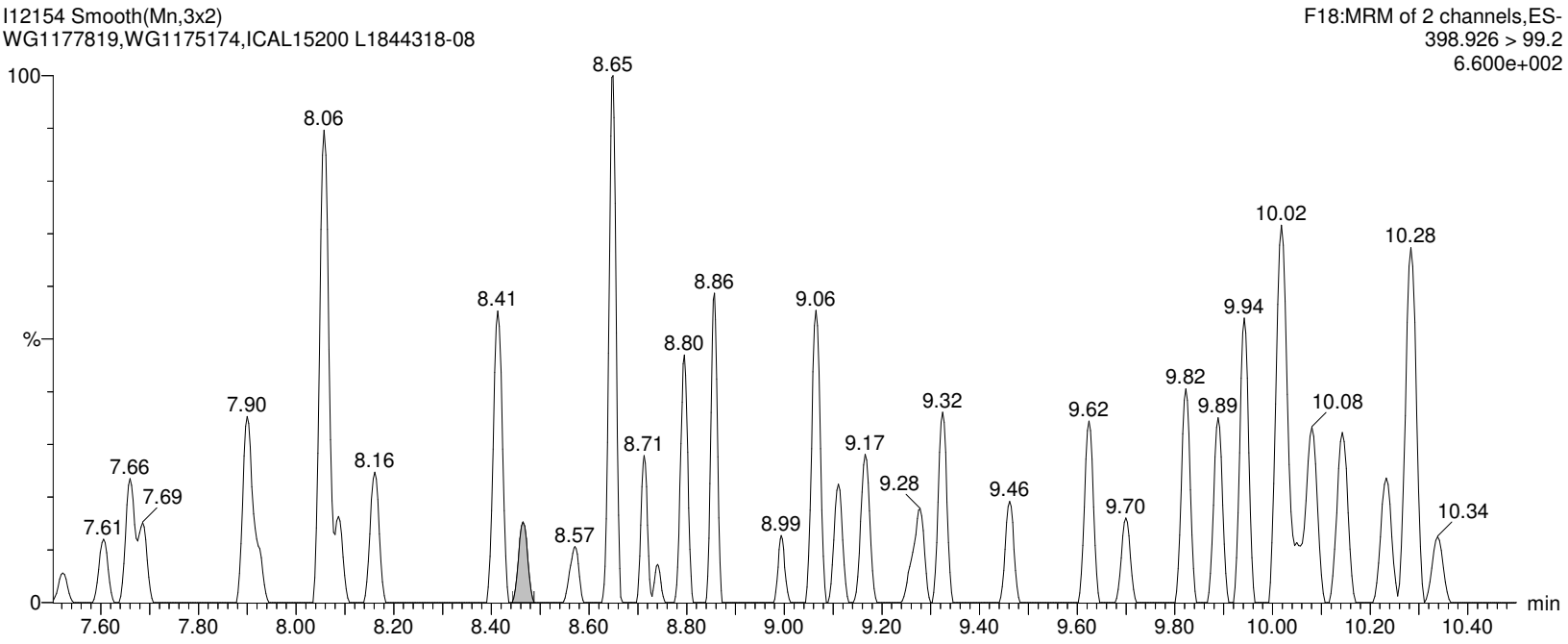

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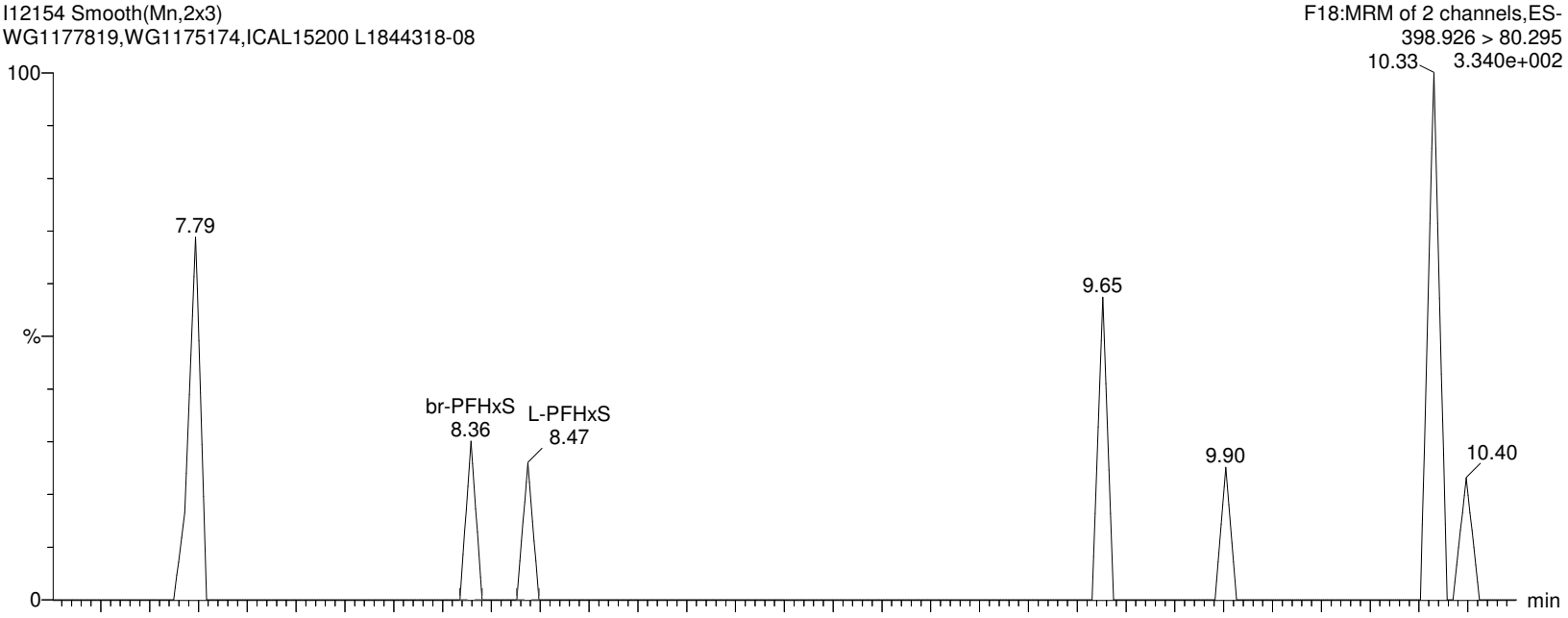

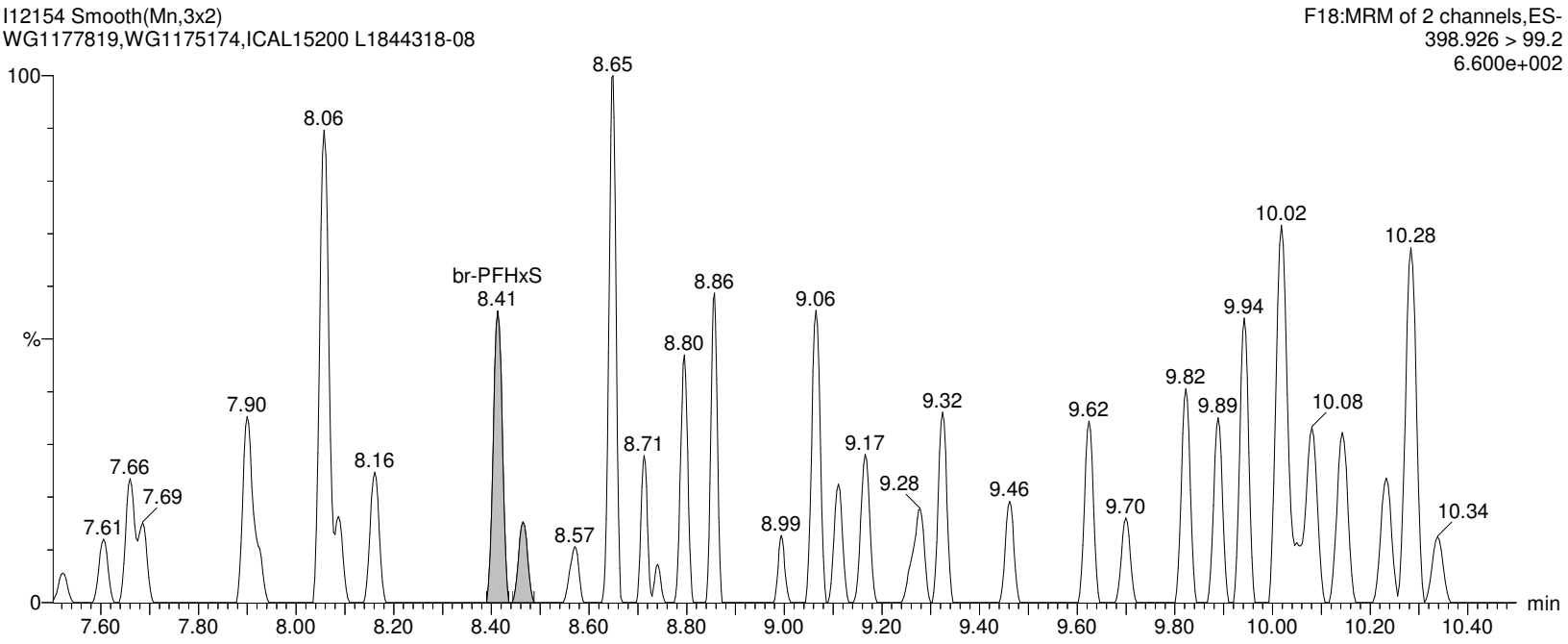

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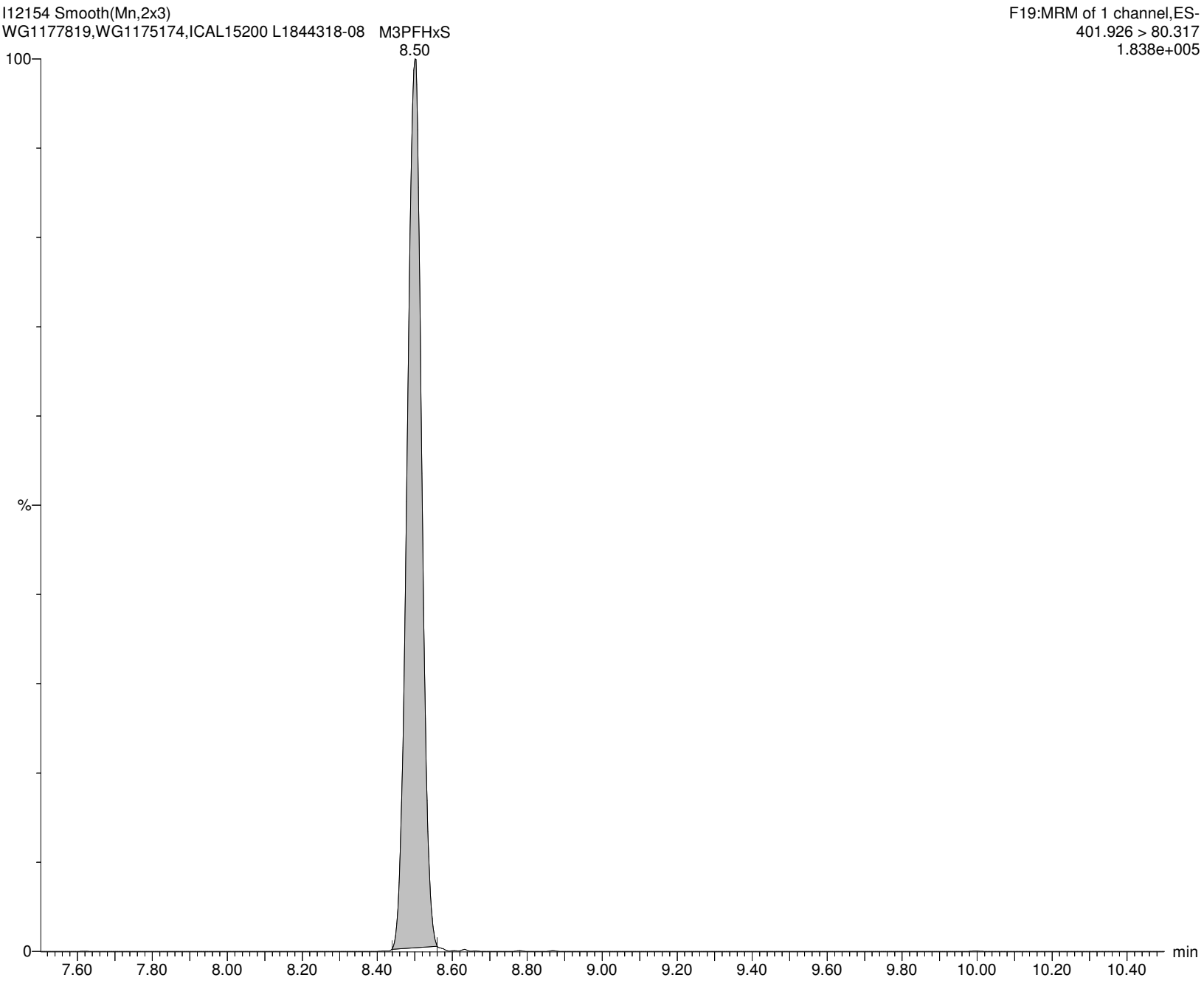

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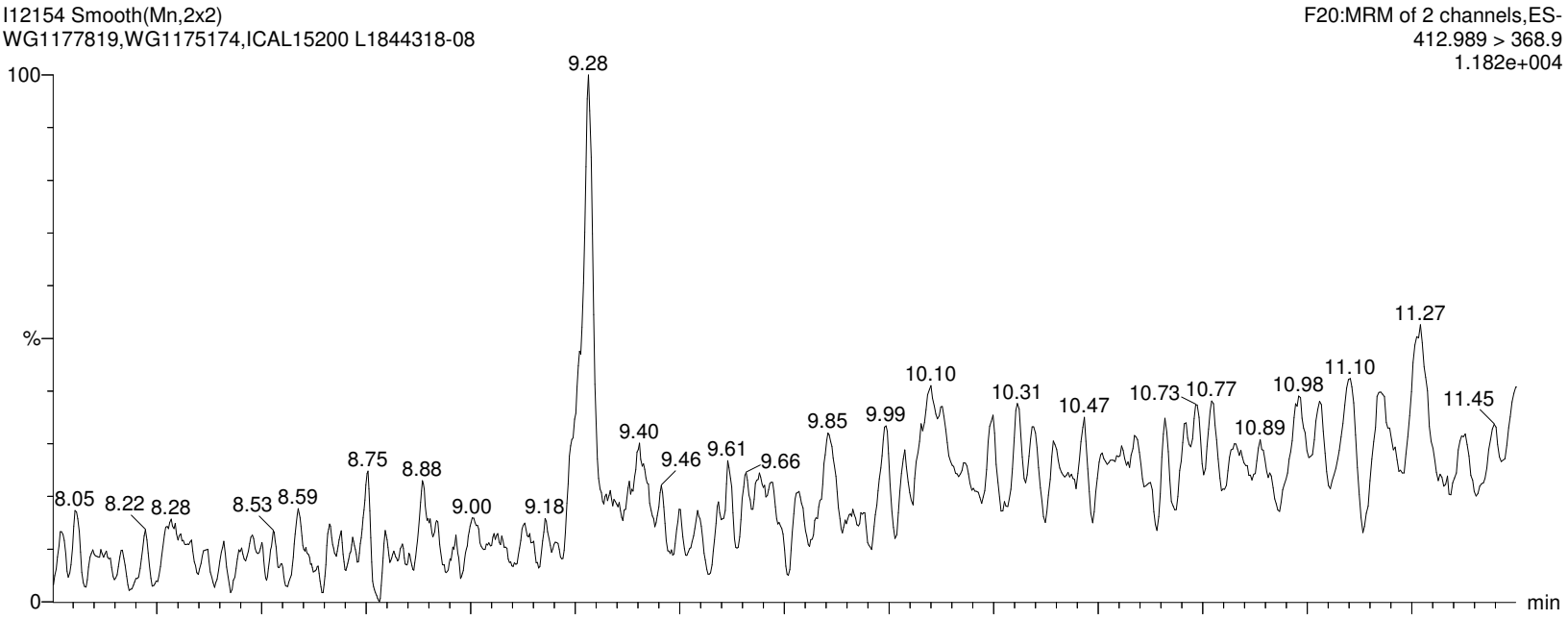

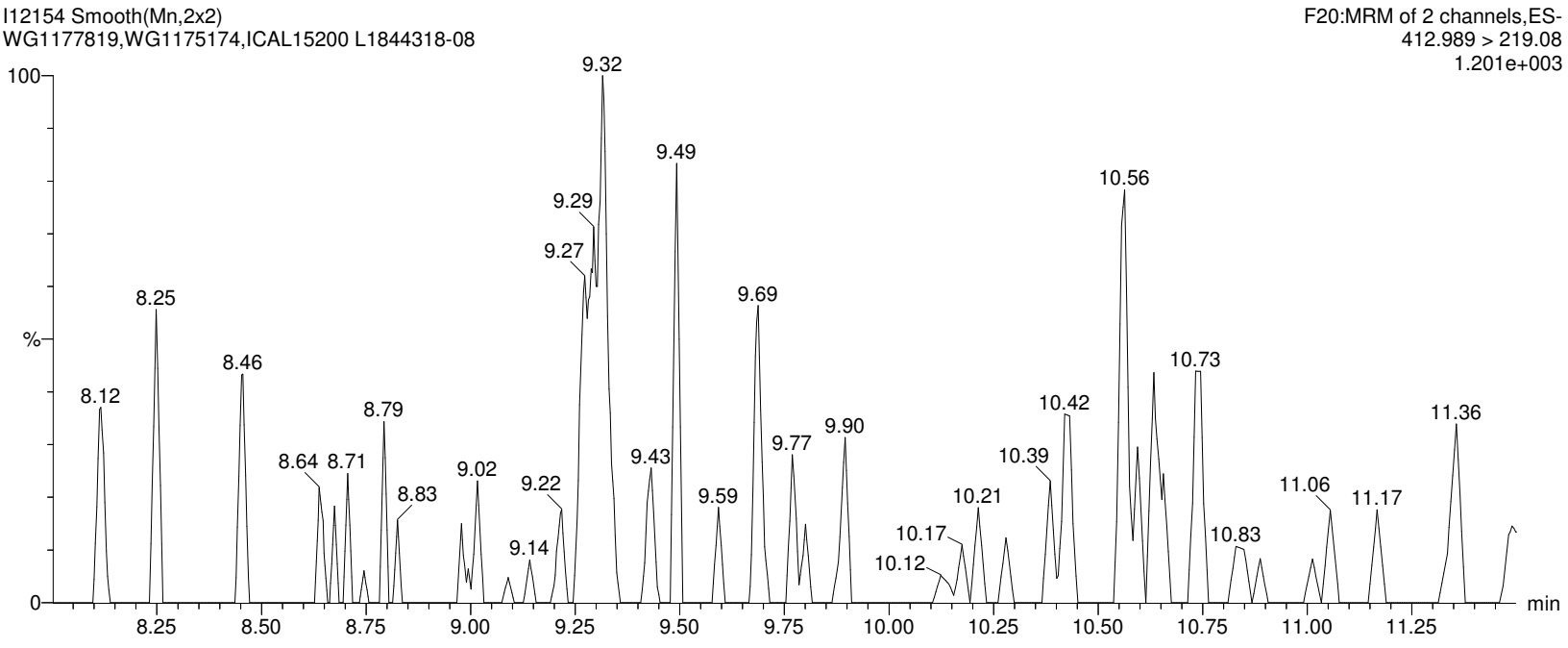

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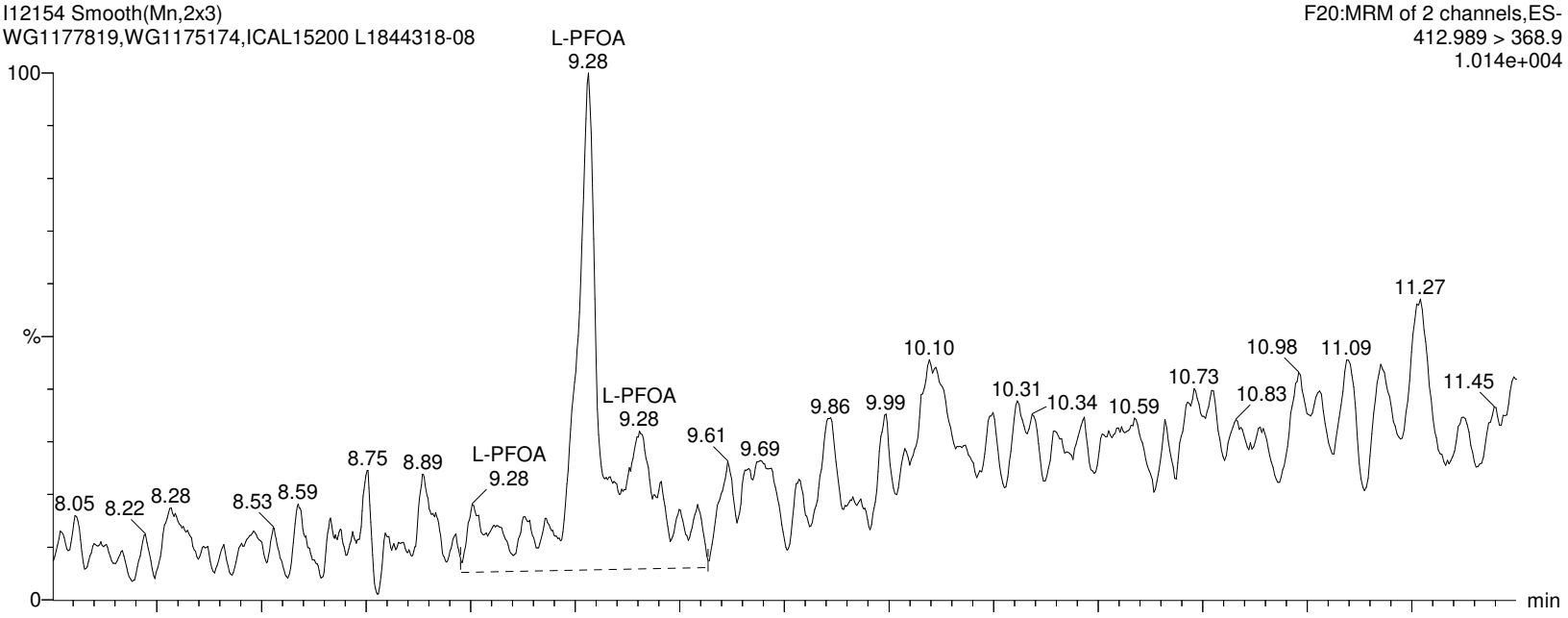

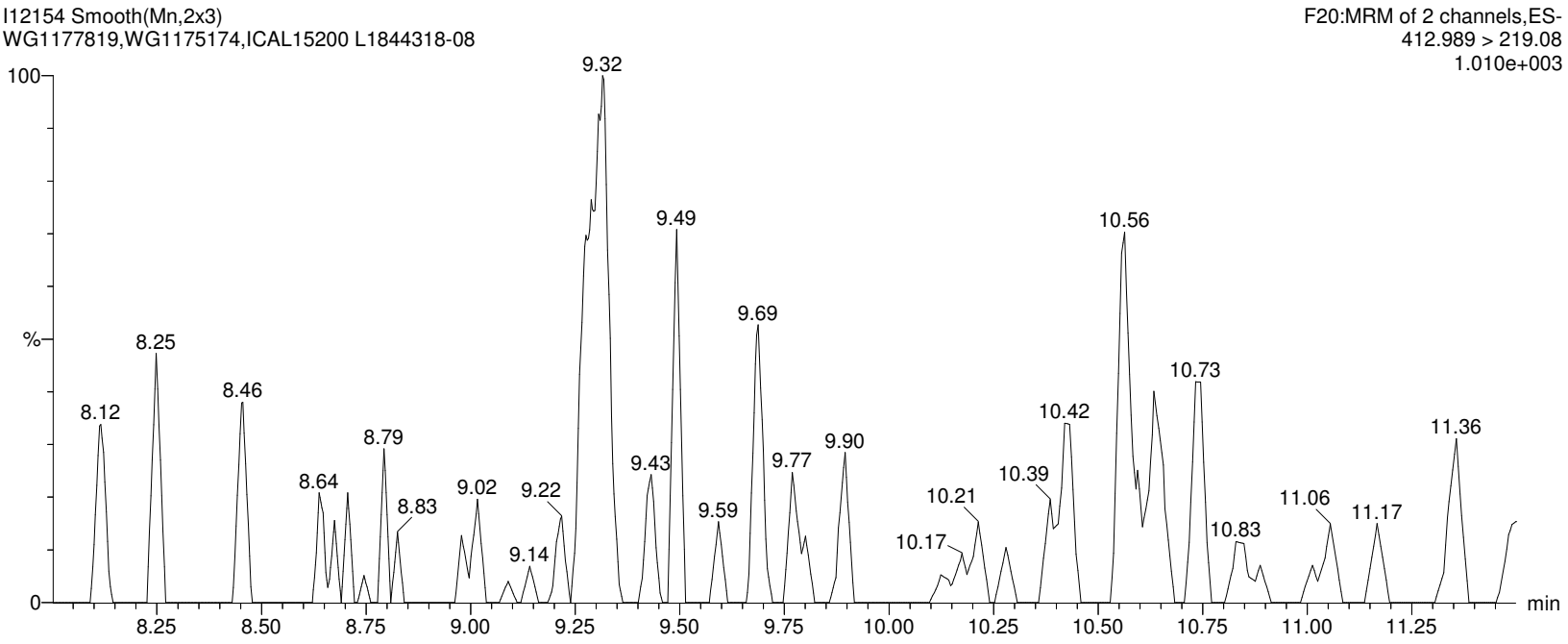

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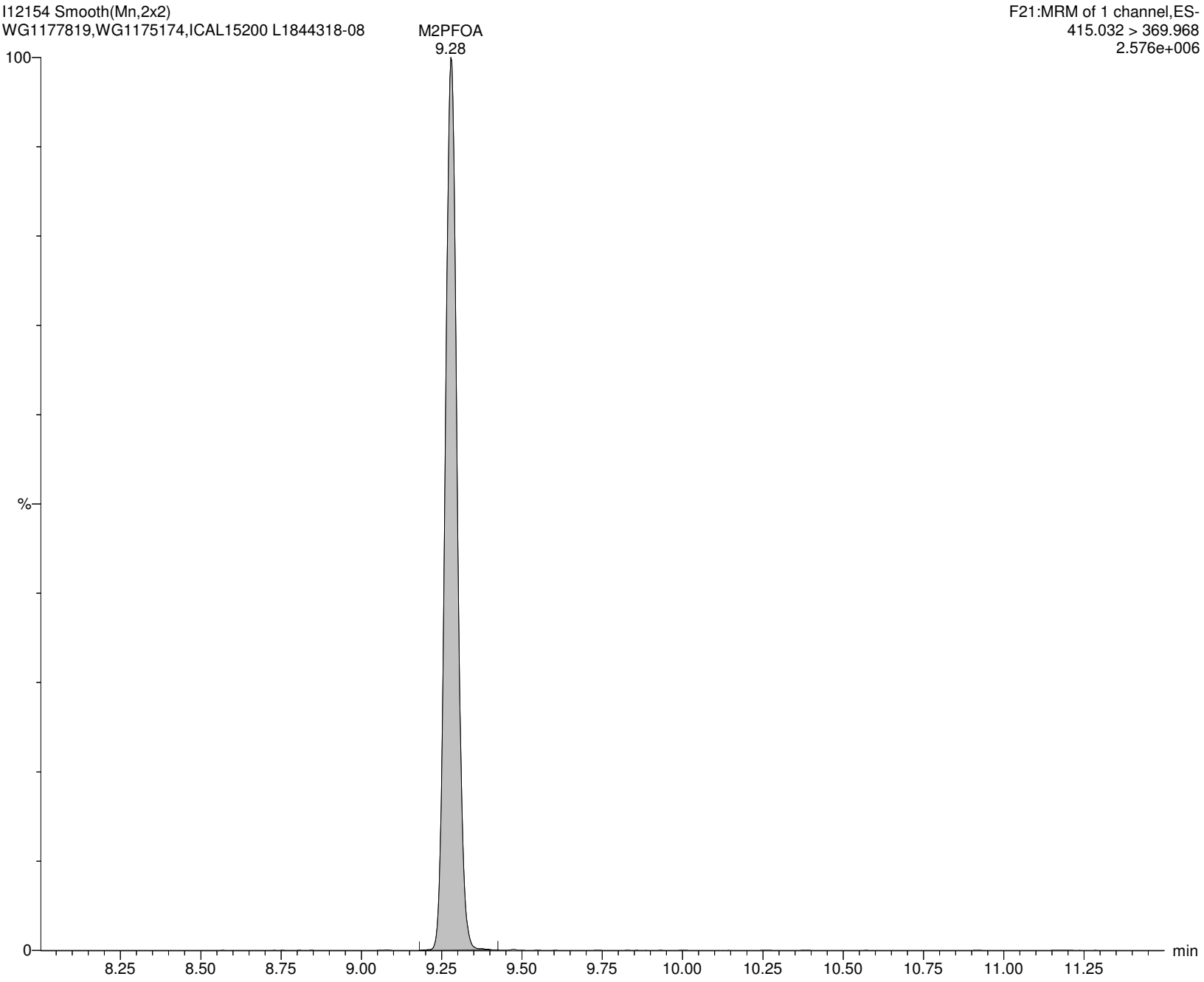

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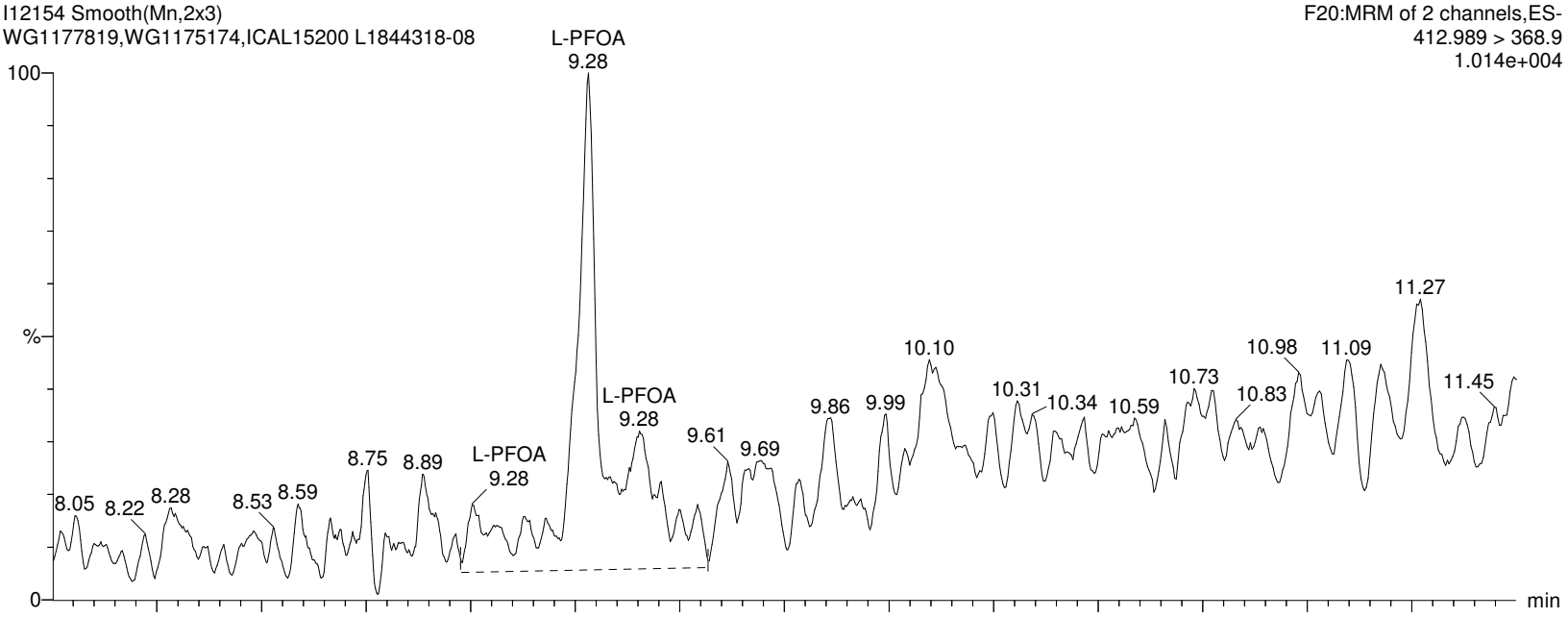

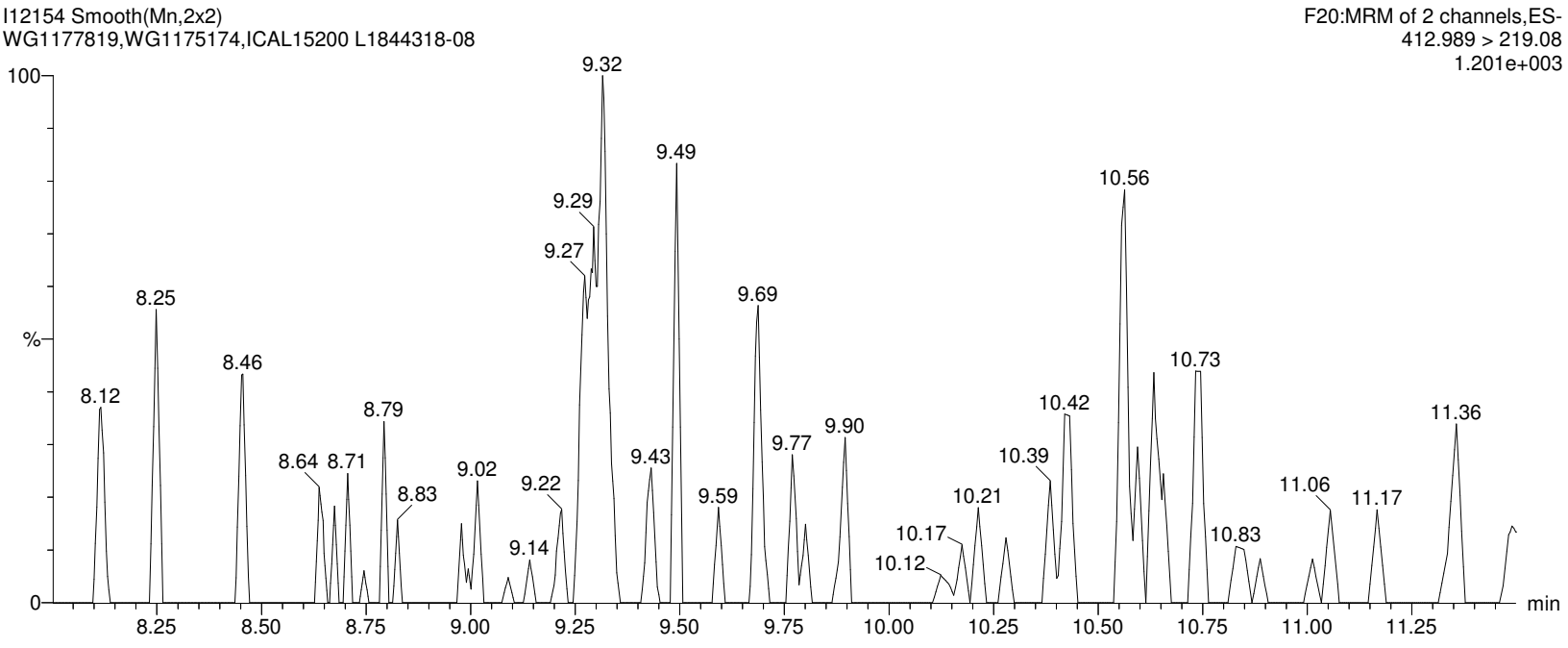

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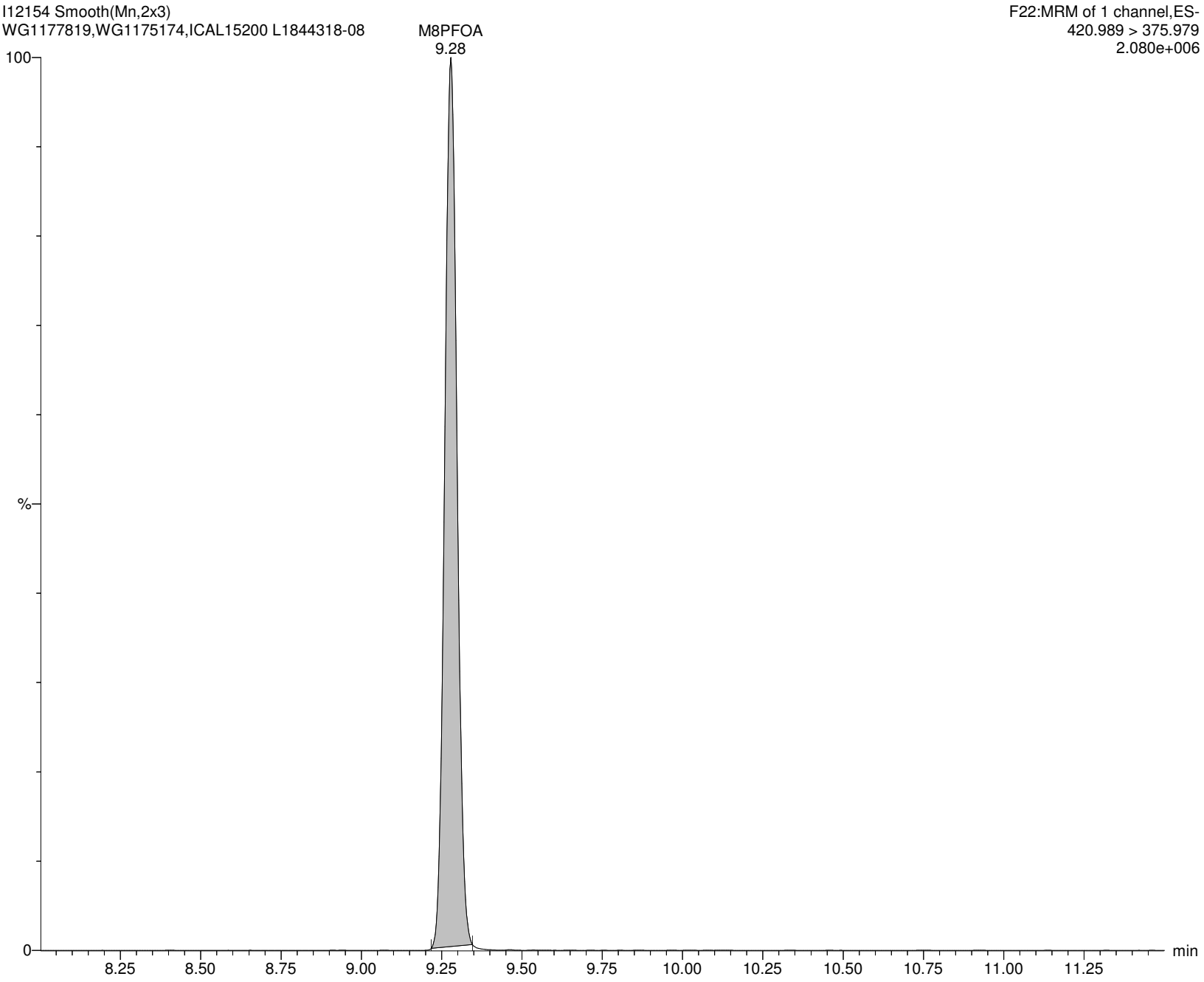

all concentration units in (ng/mL)

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Vial: 1:C,7
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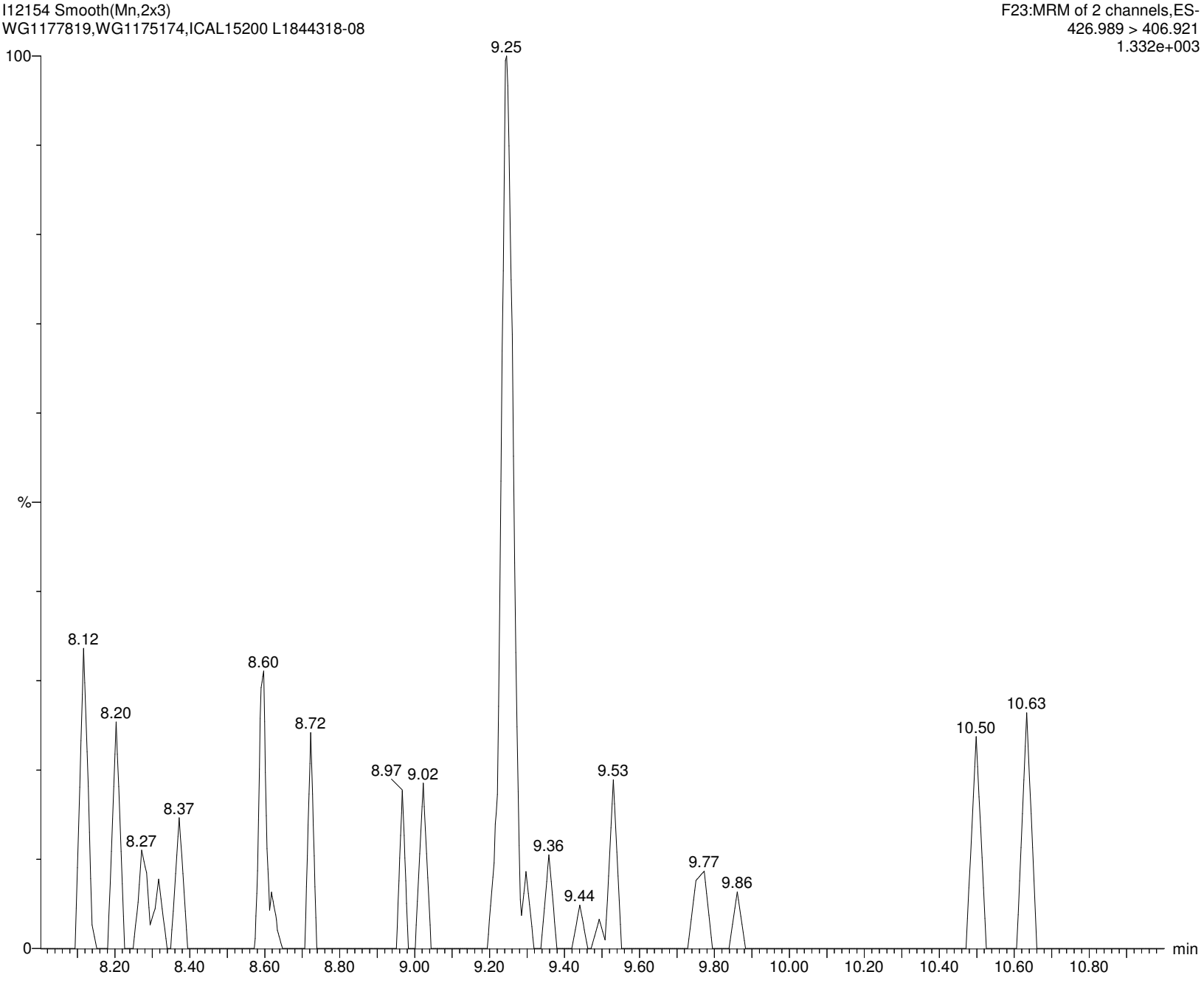

all concentration units in (ng/mL)

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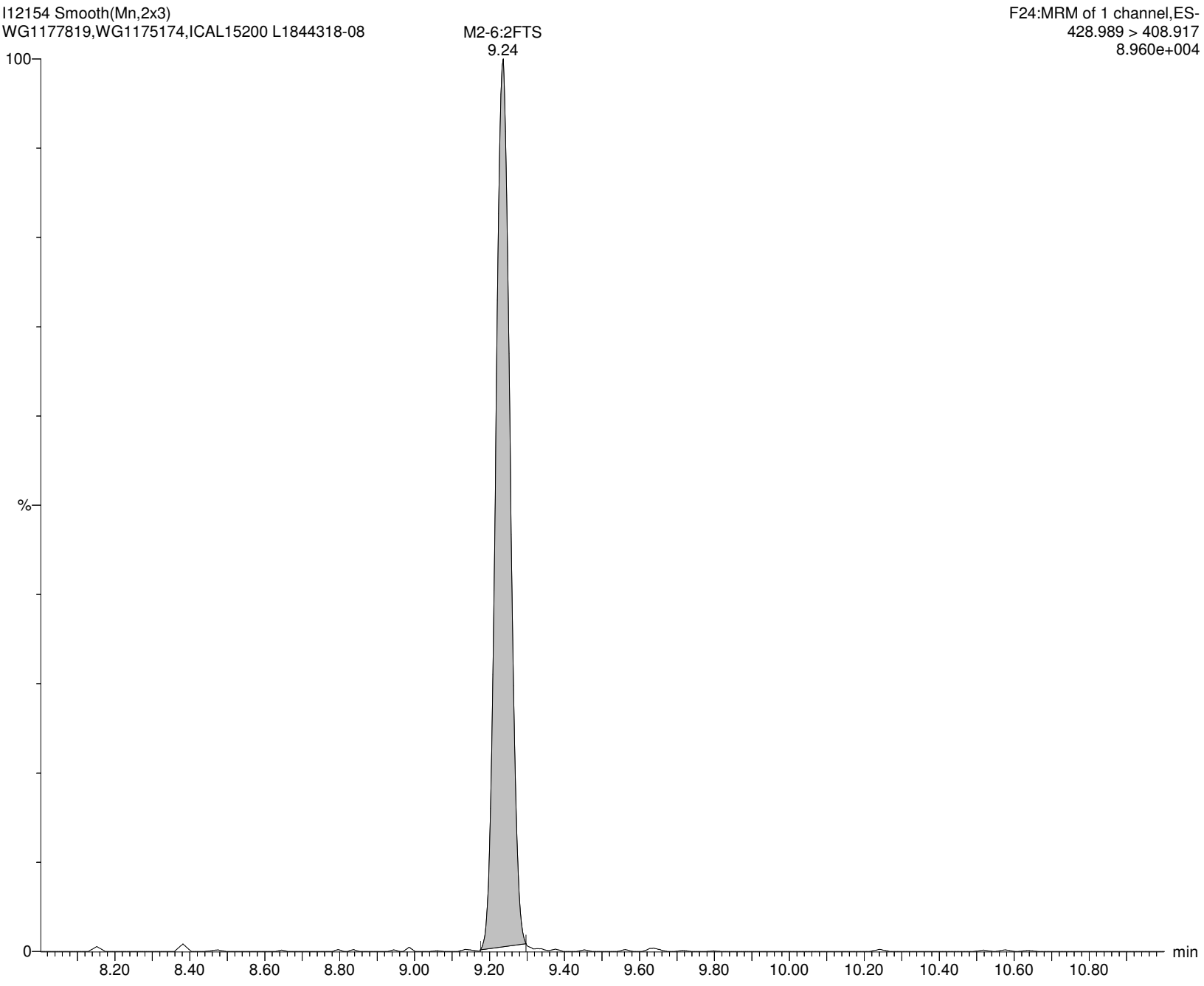

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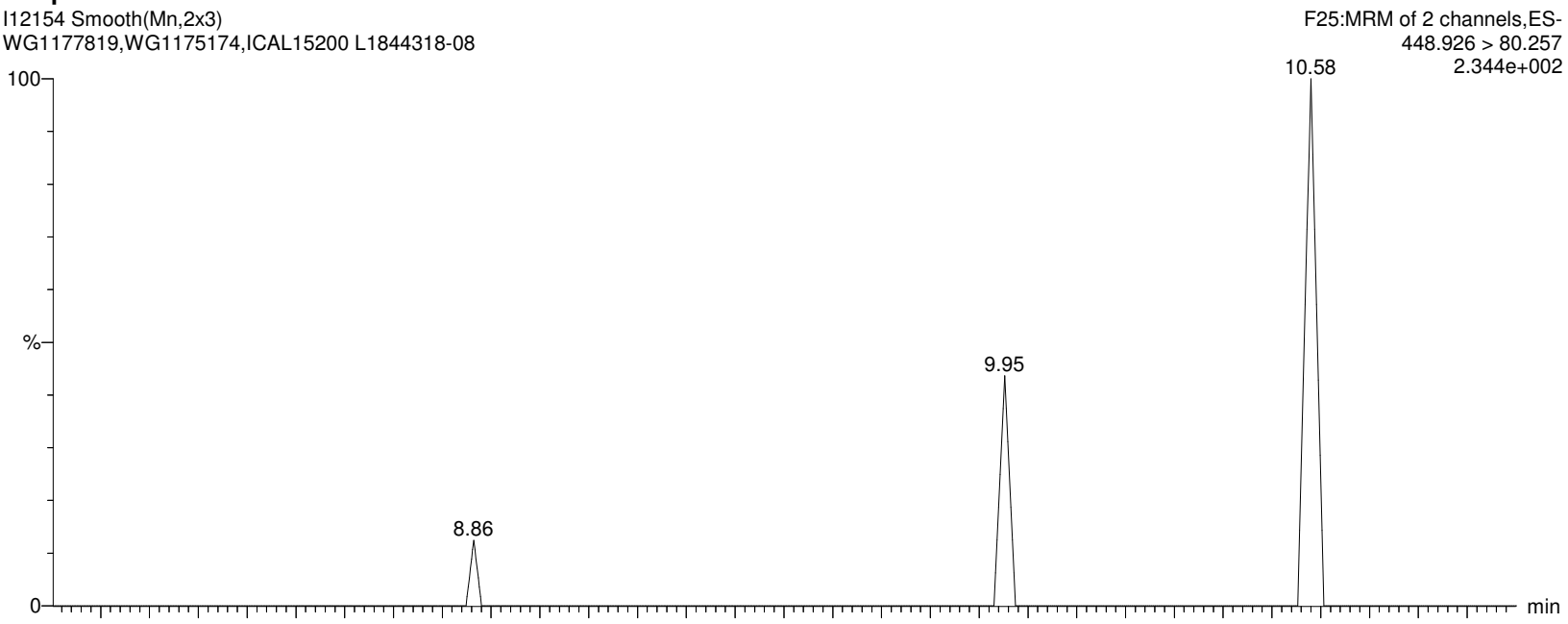

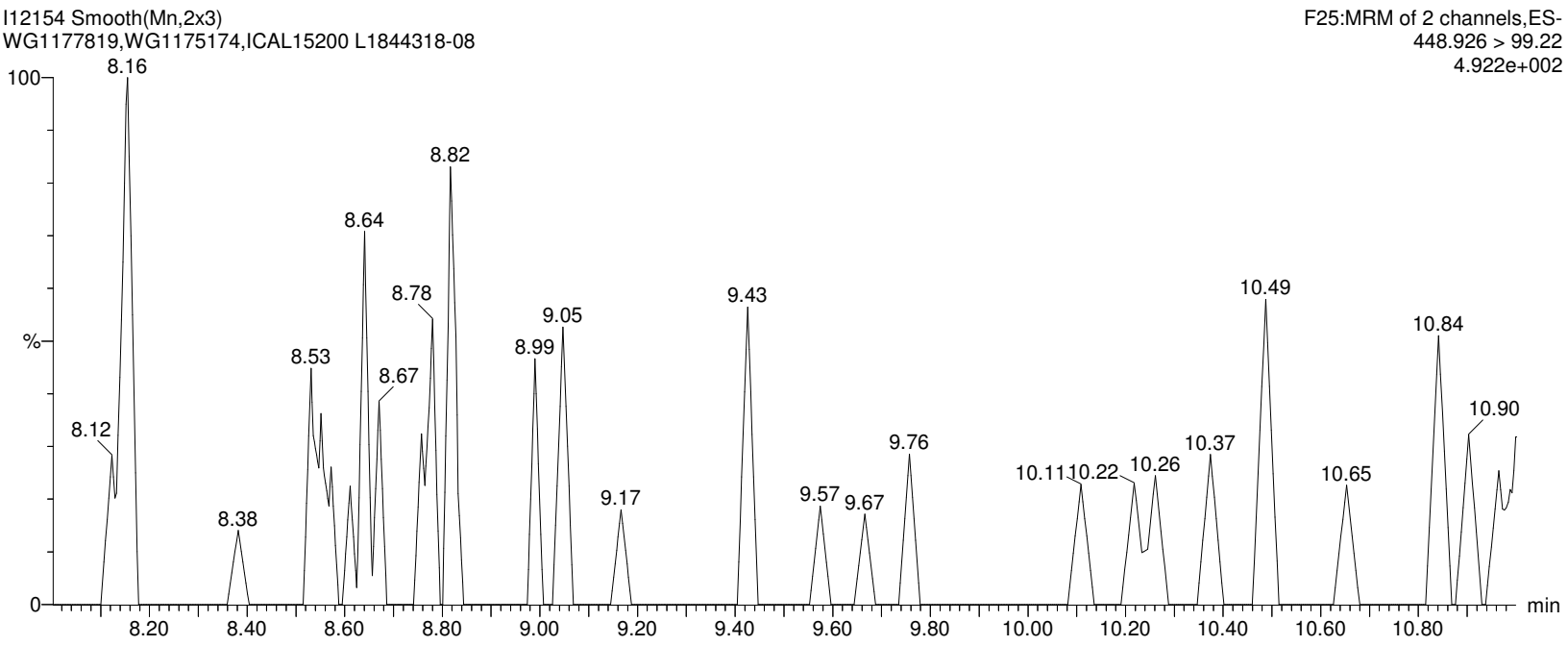

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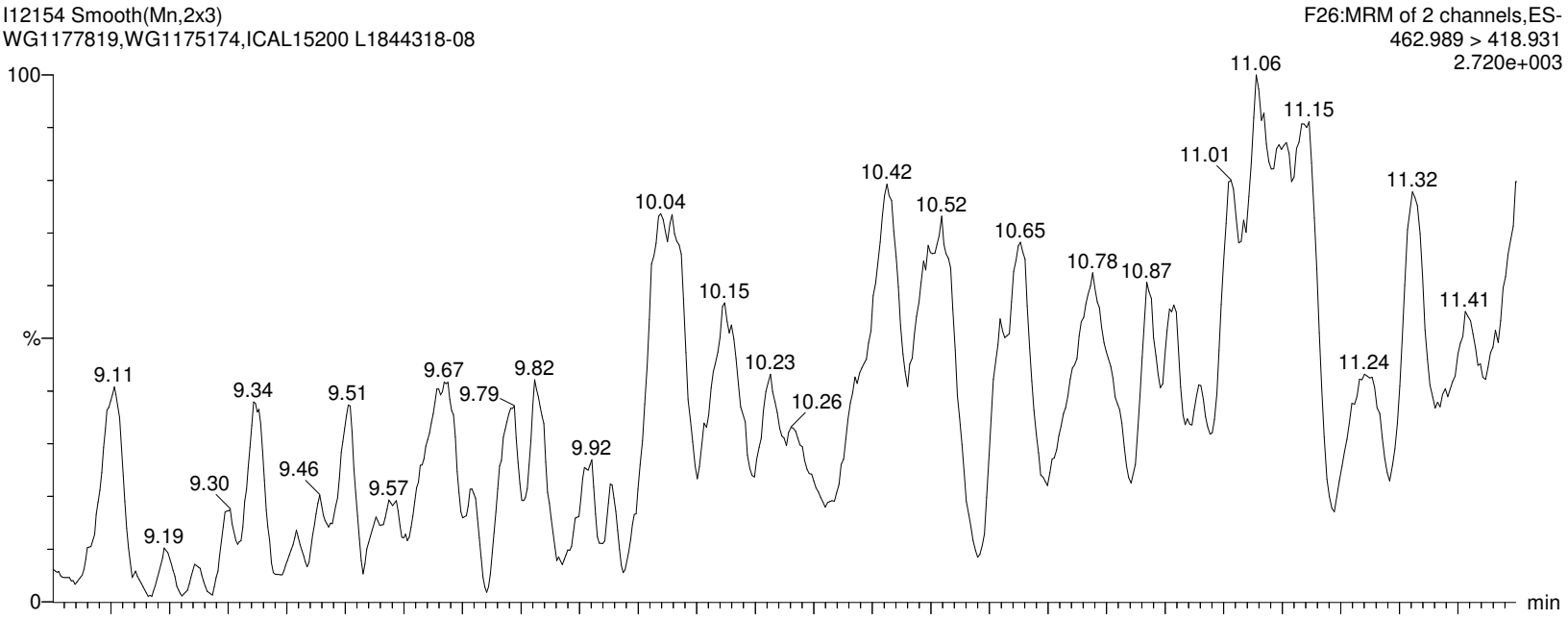

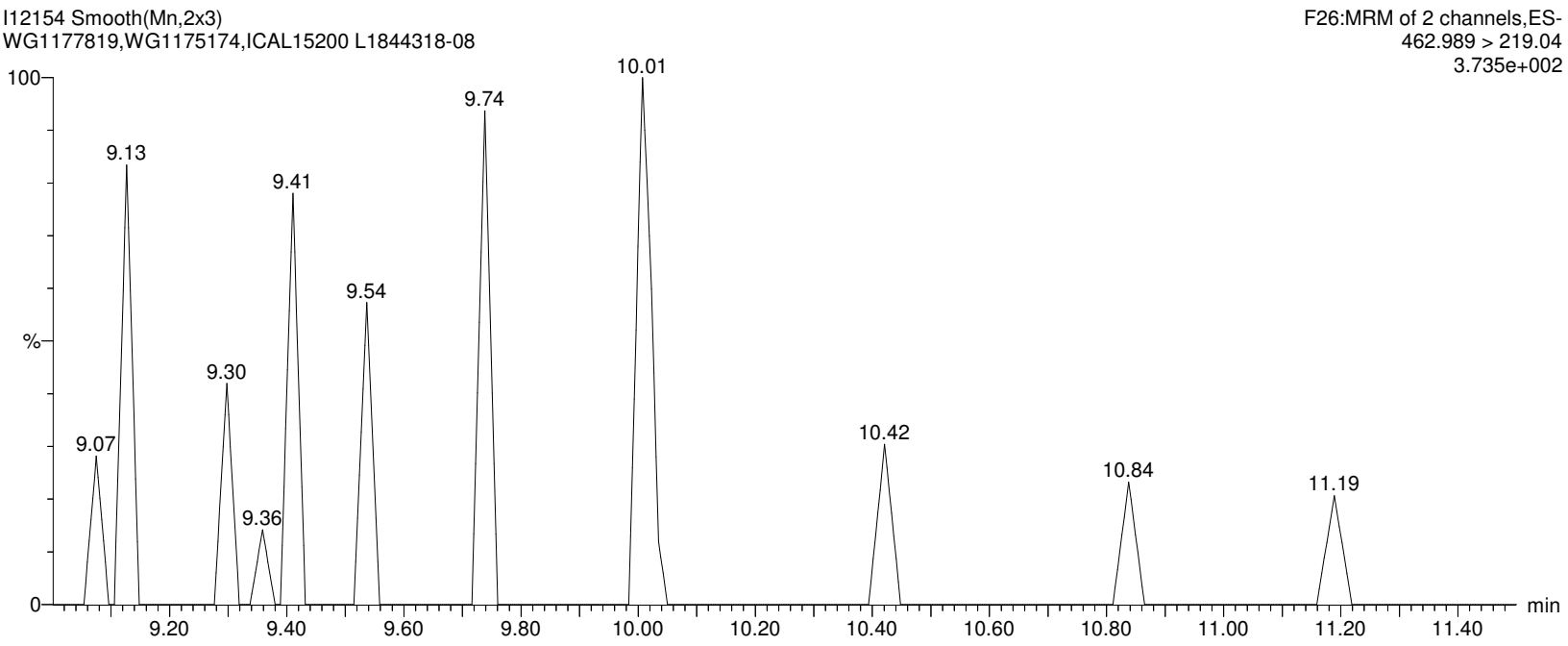

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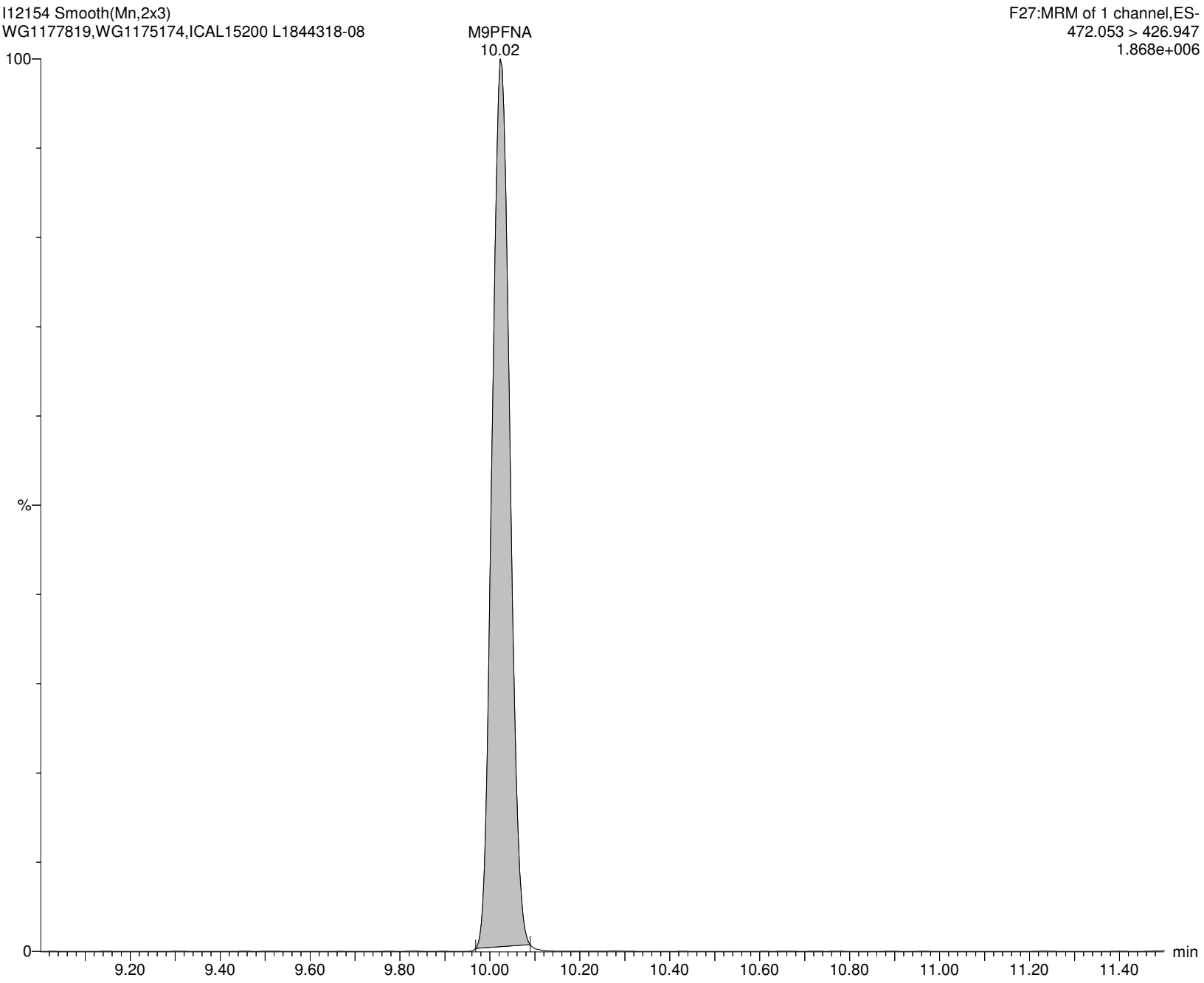

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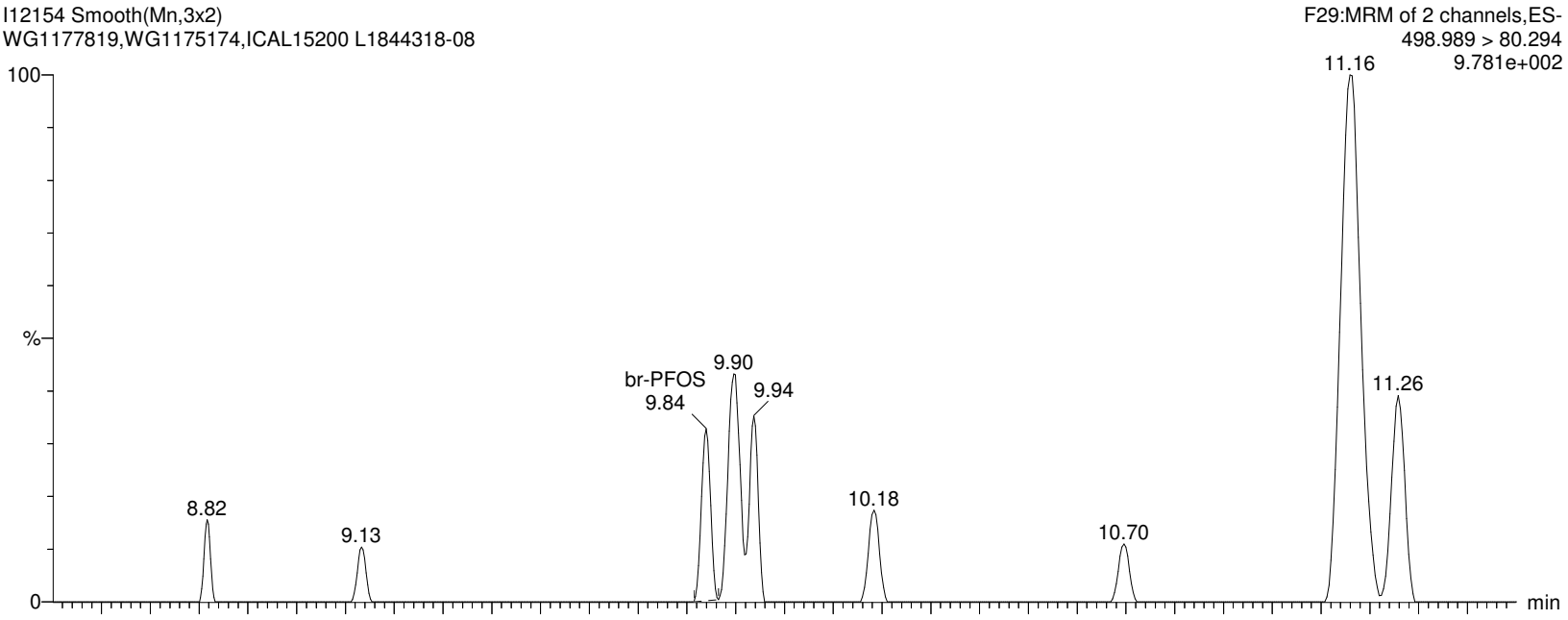

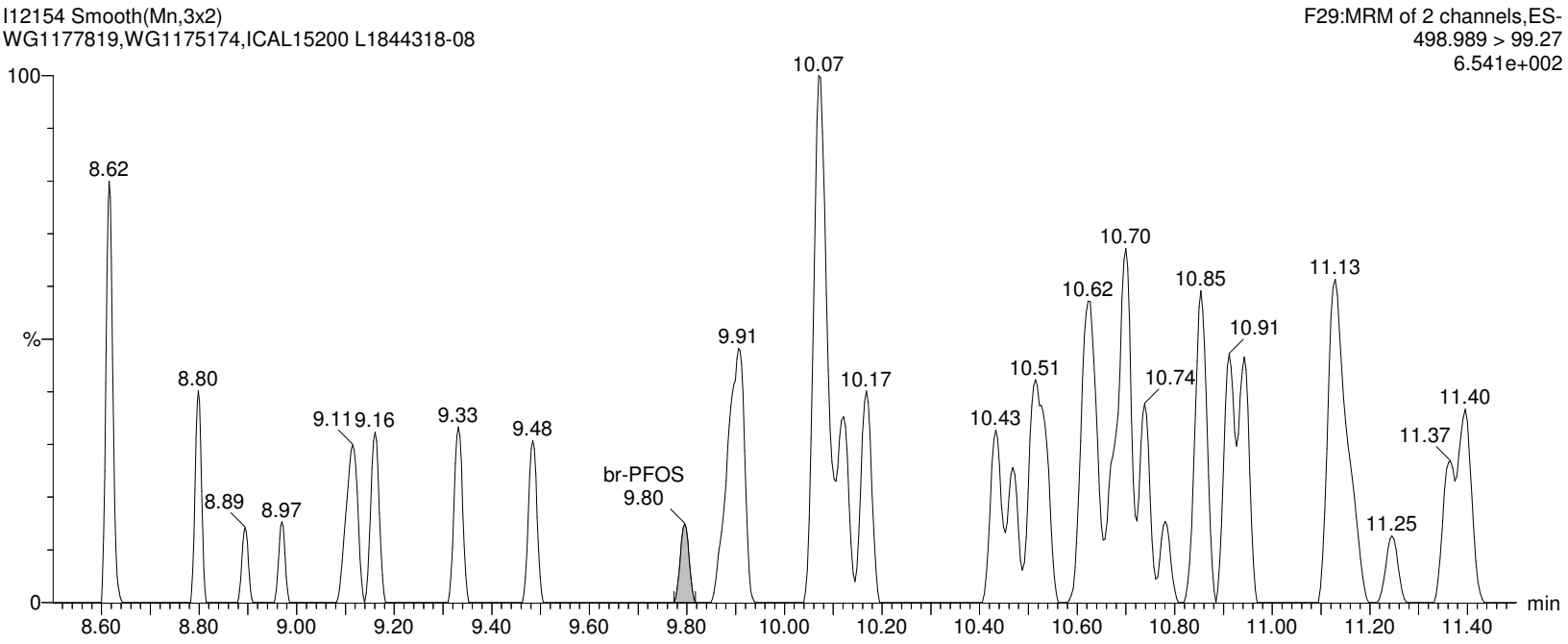

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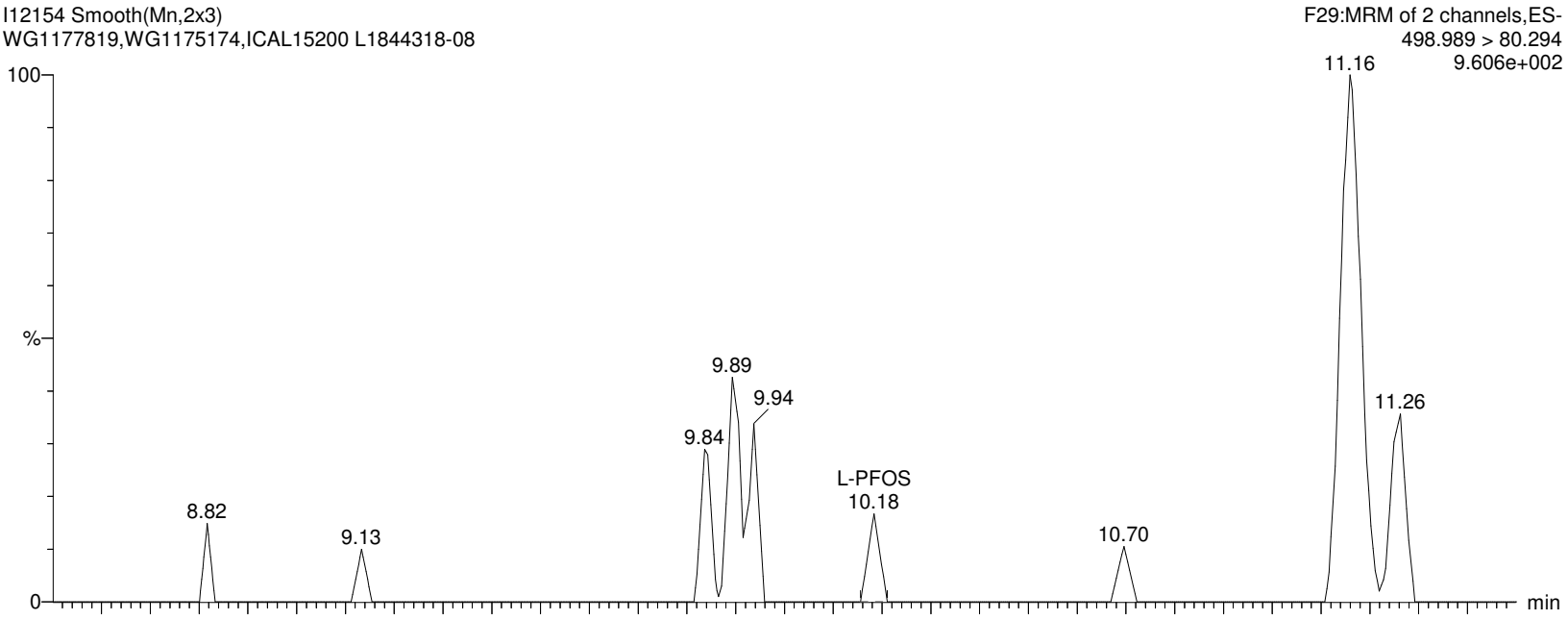
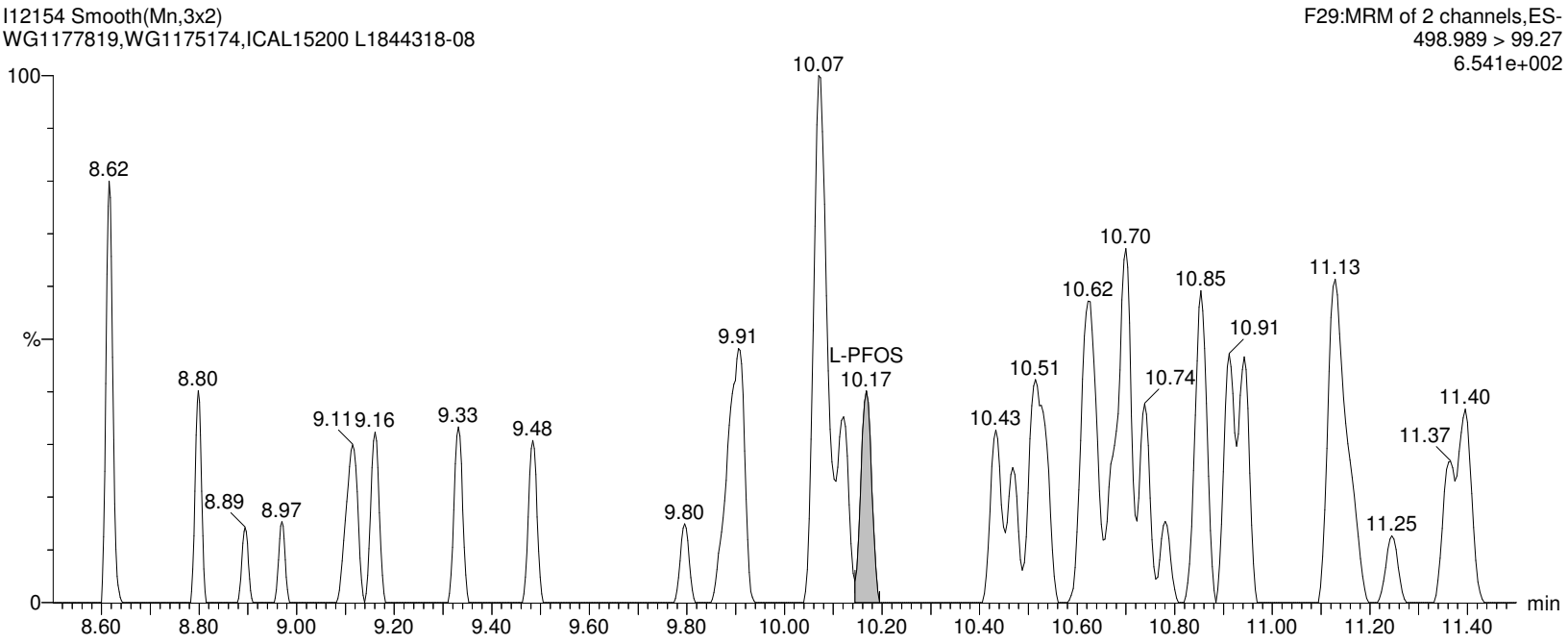
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:56 Eastern Standard Time

Name: I12154
ID: L1844318-08
Date: 10-Nov-2018
Time: 07:24:59
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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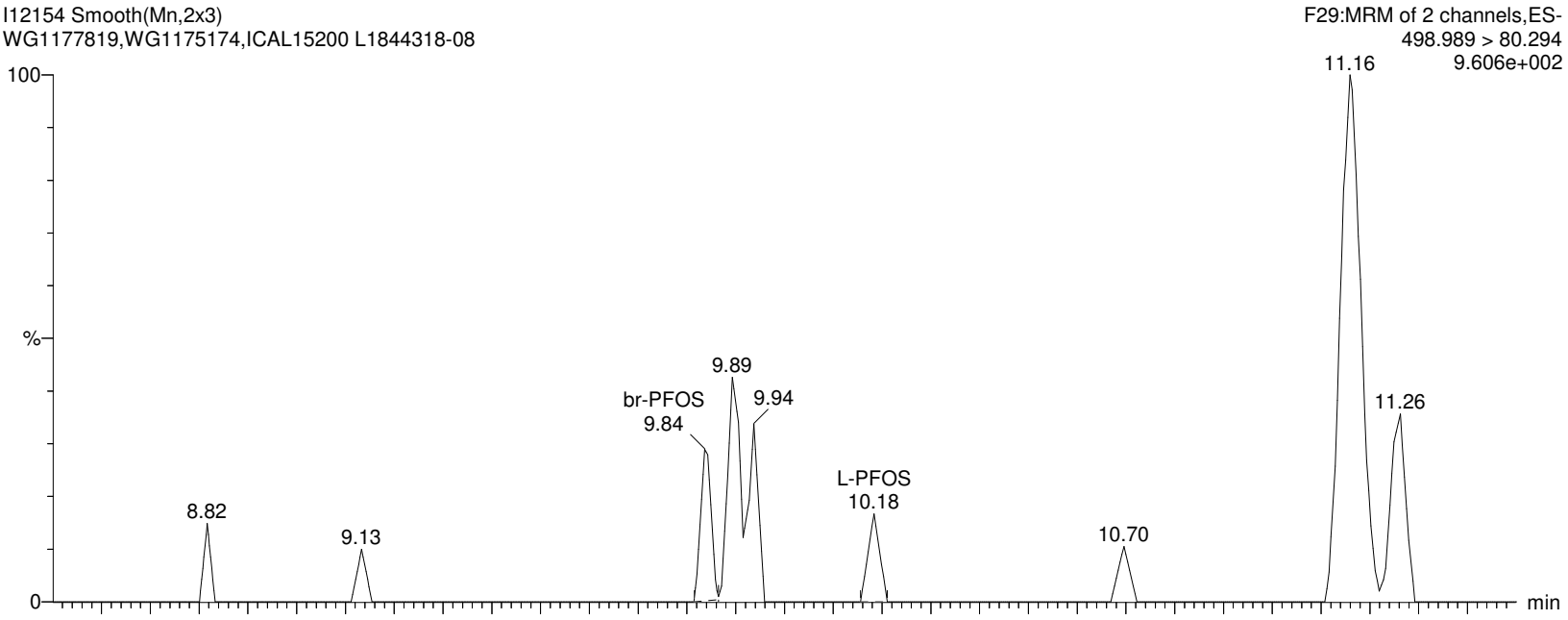

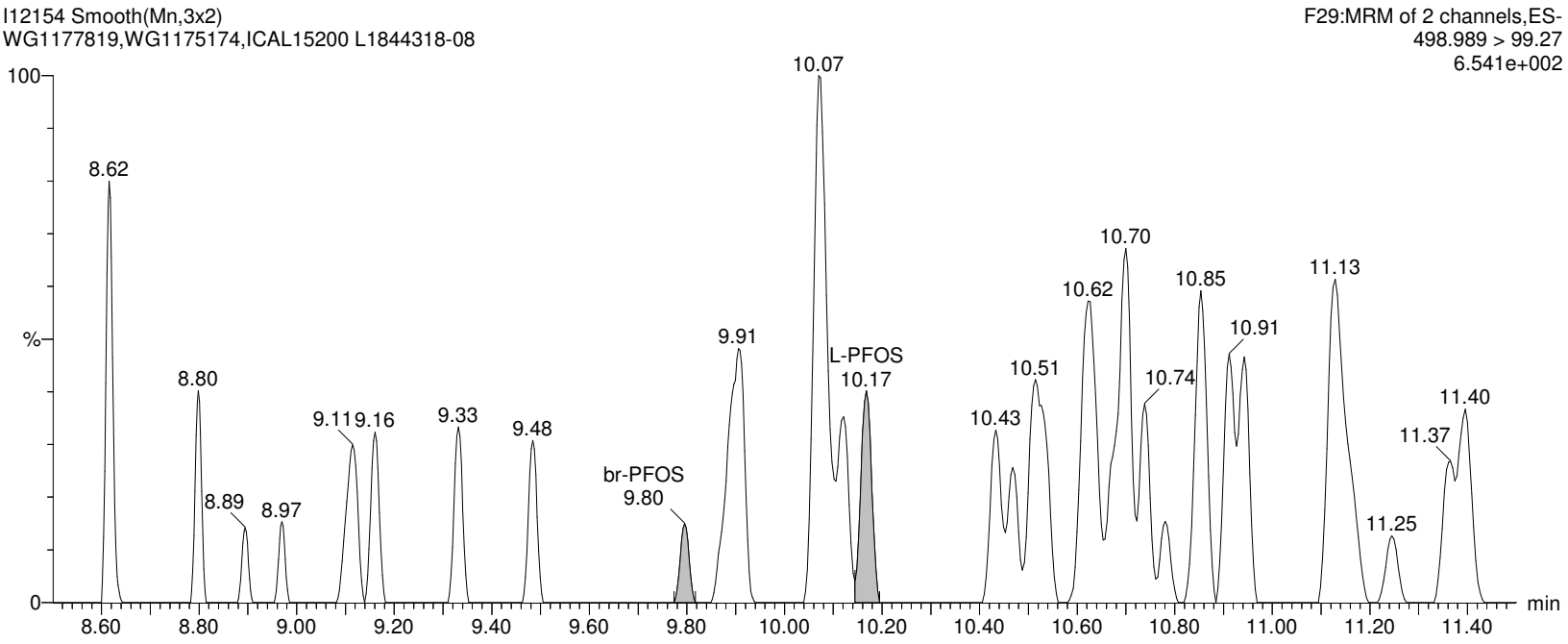

all concentration units in (ng/mL)

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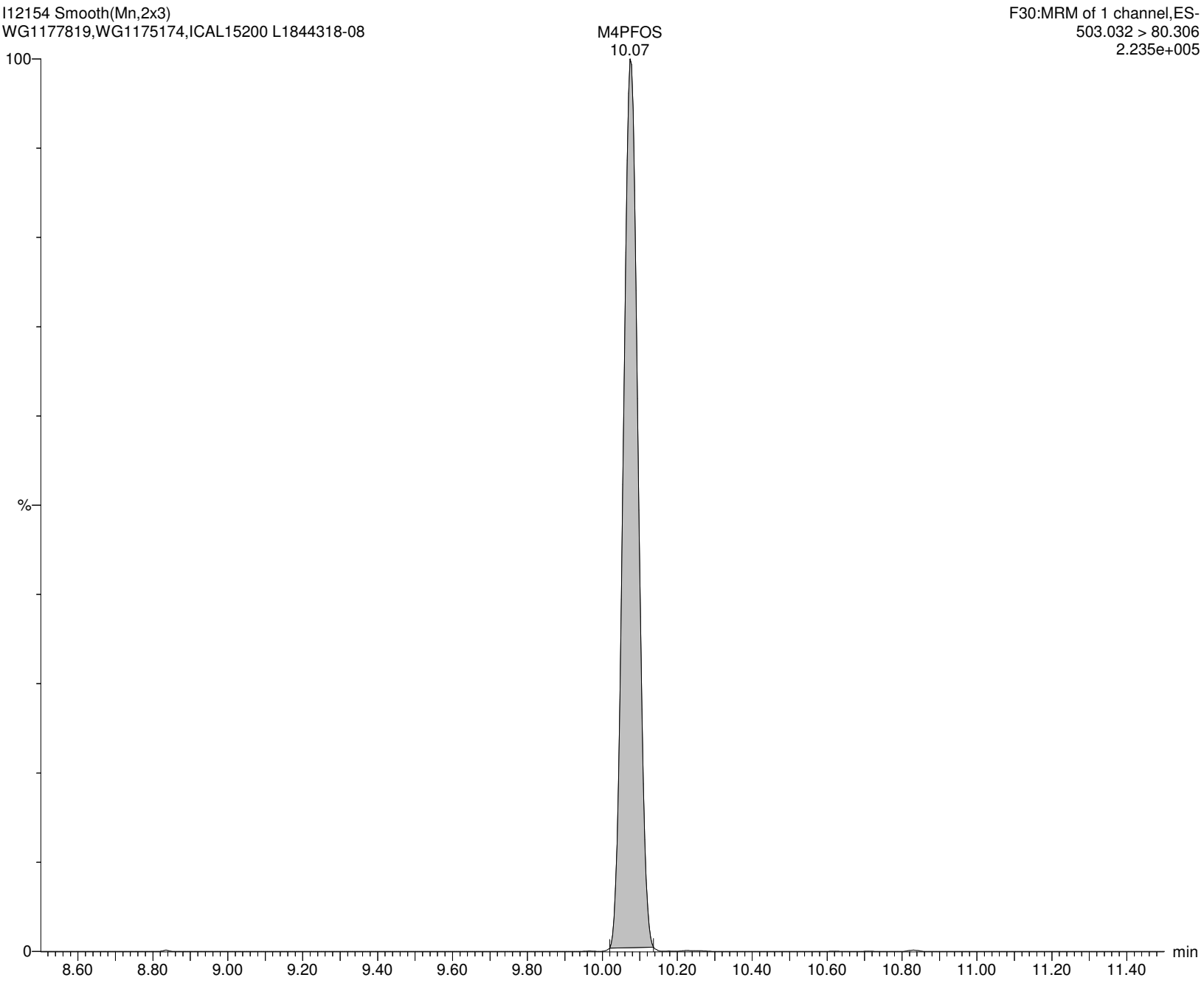

all concentration units in (ng/mL)

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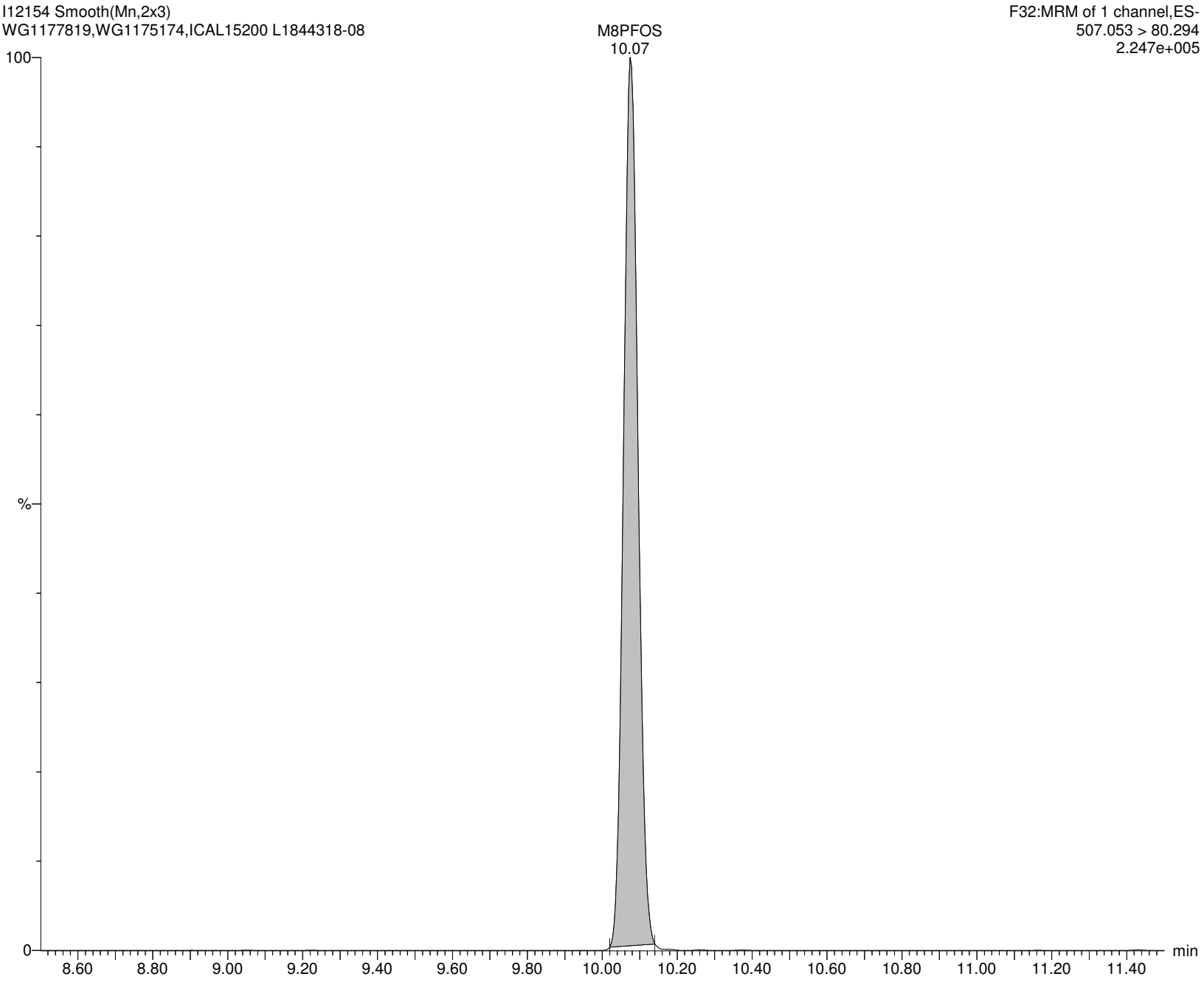

all concentration units in (ng/mL)

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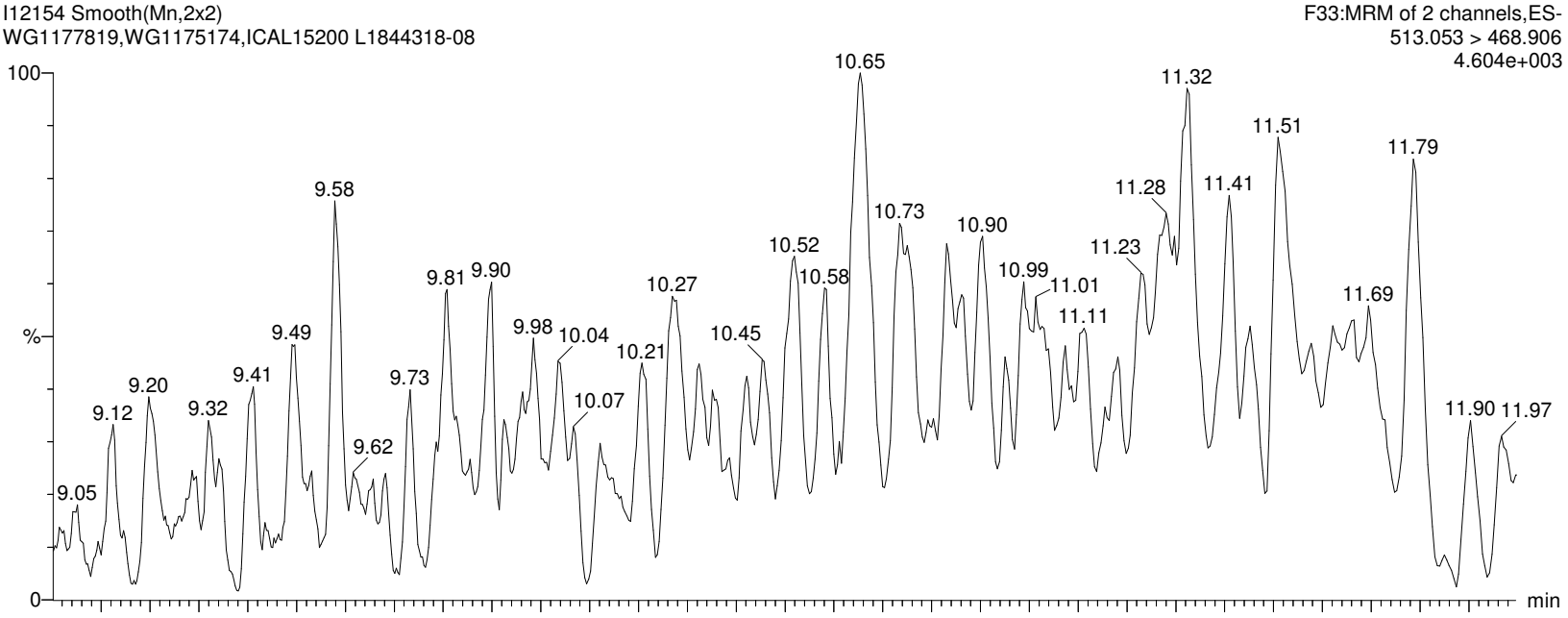

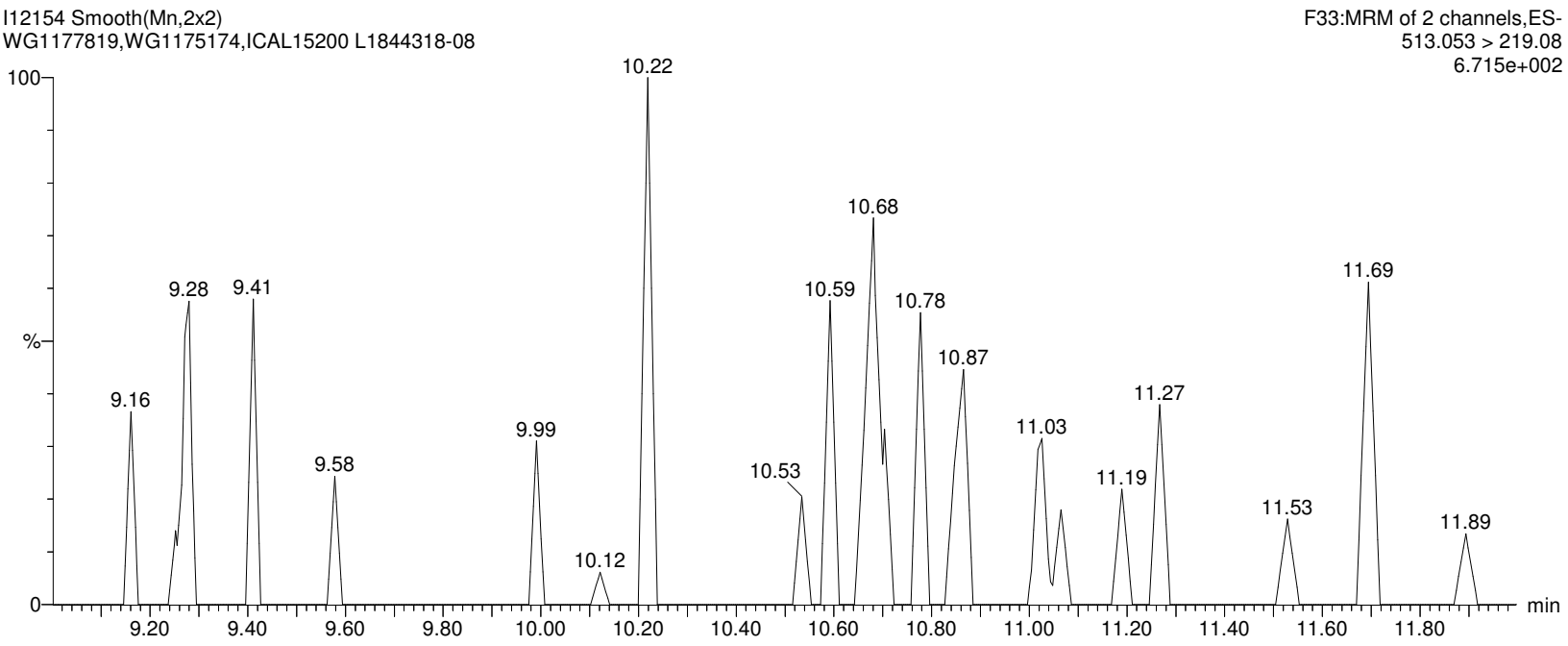

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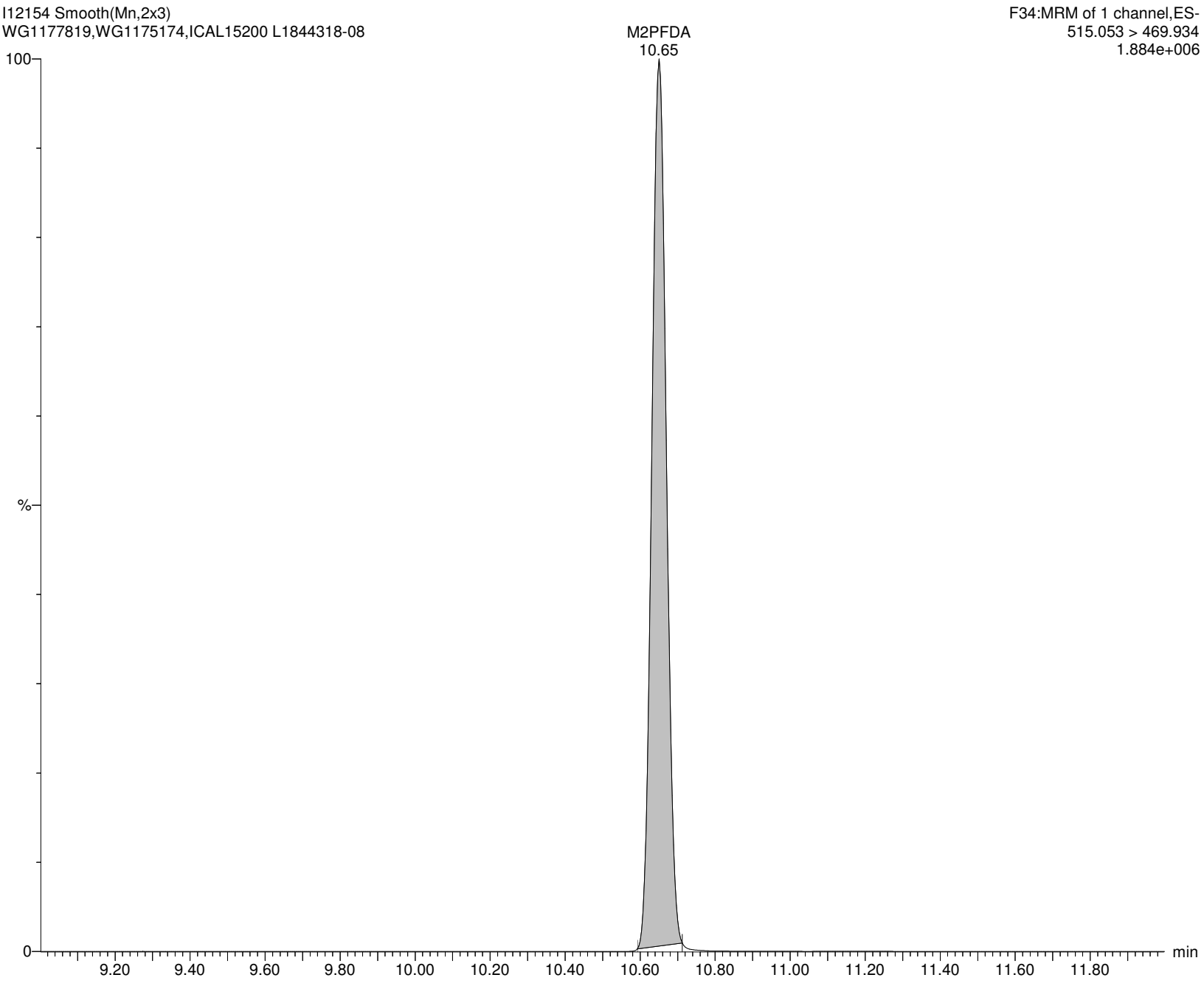

all concentration units in (ng/mL)

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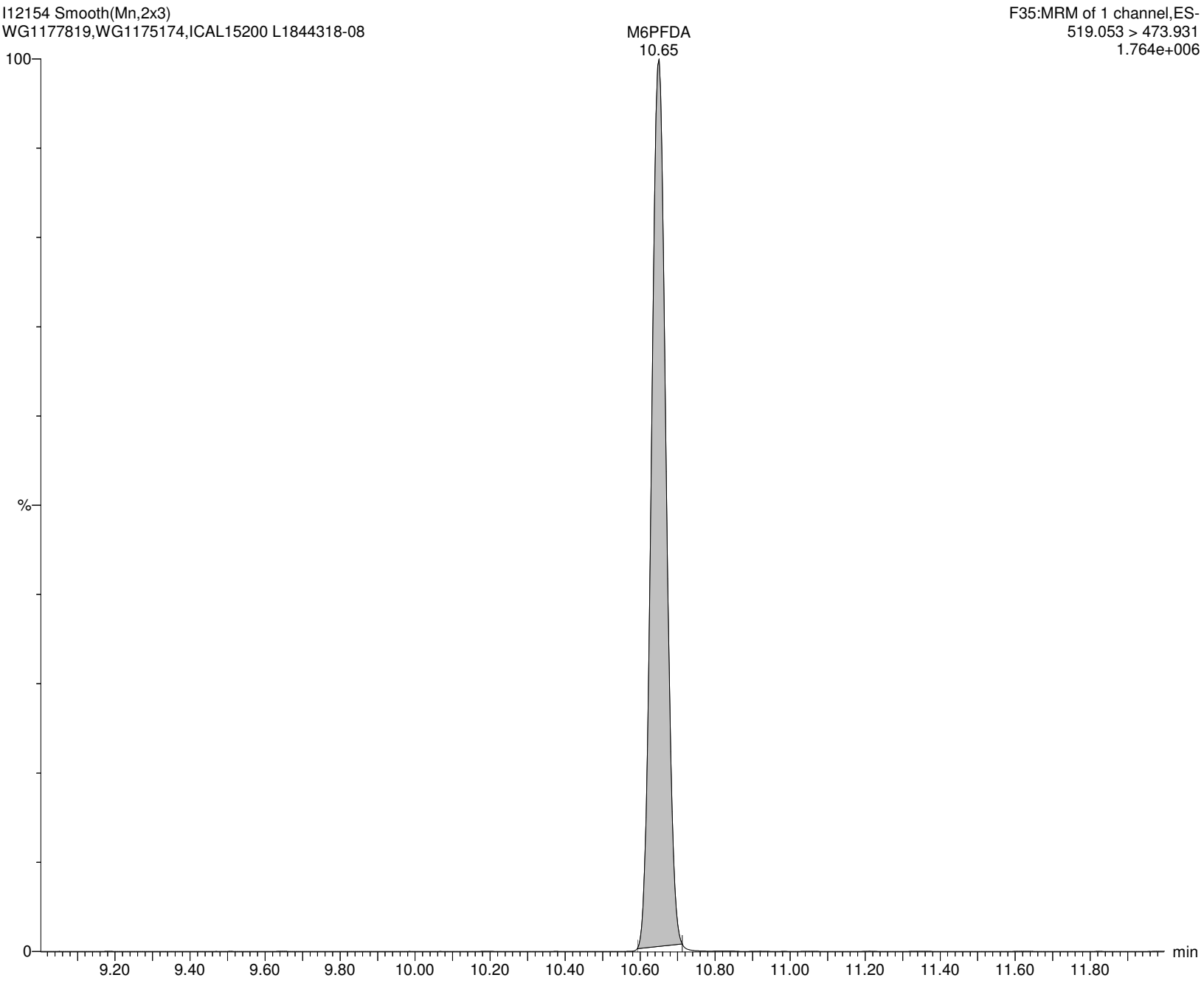

all concentration units in (ng/mL)

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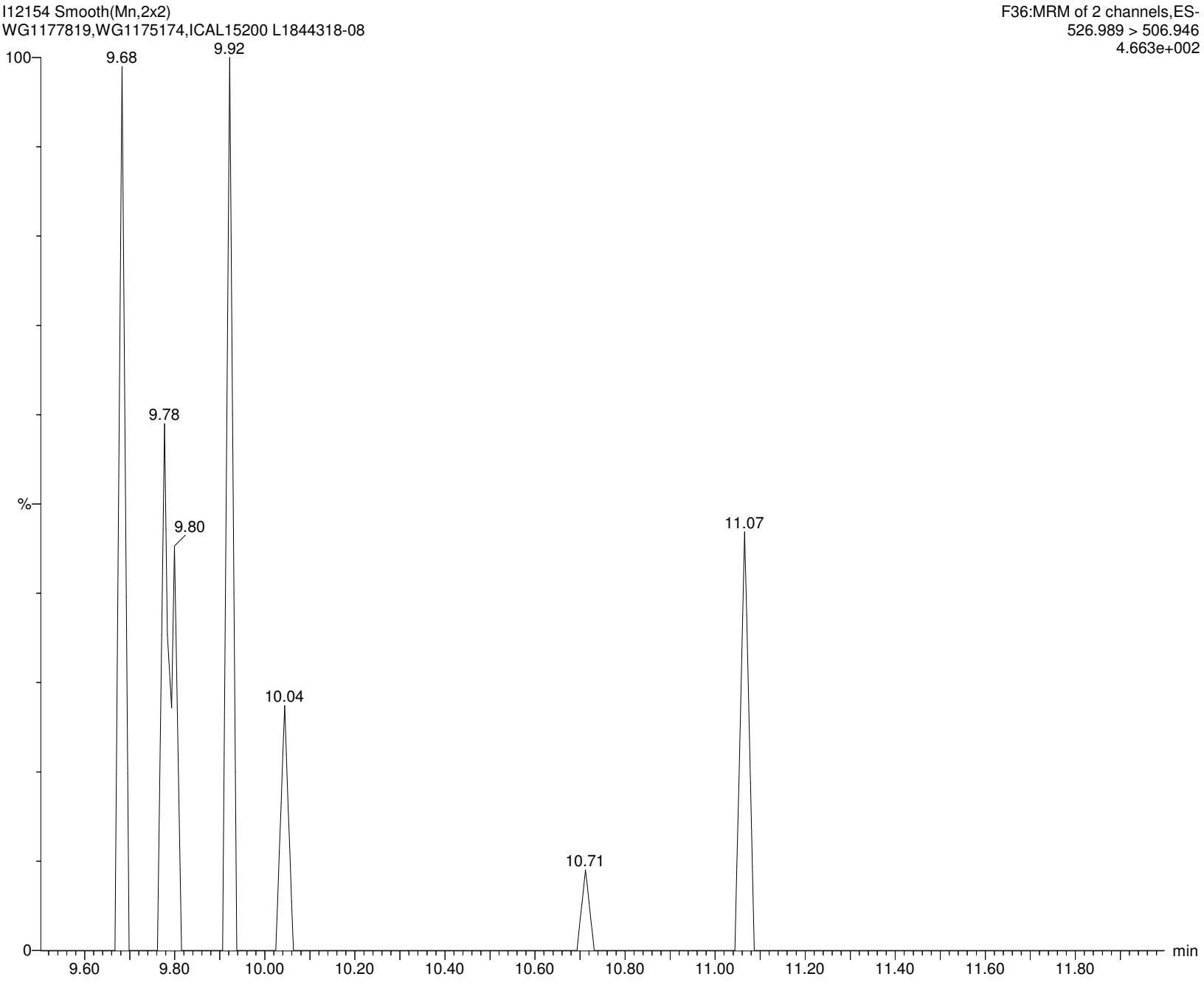

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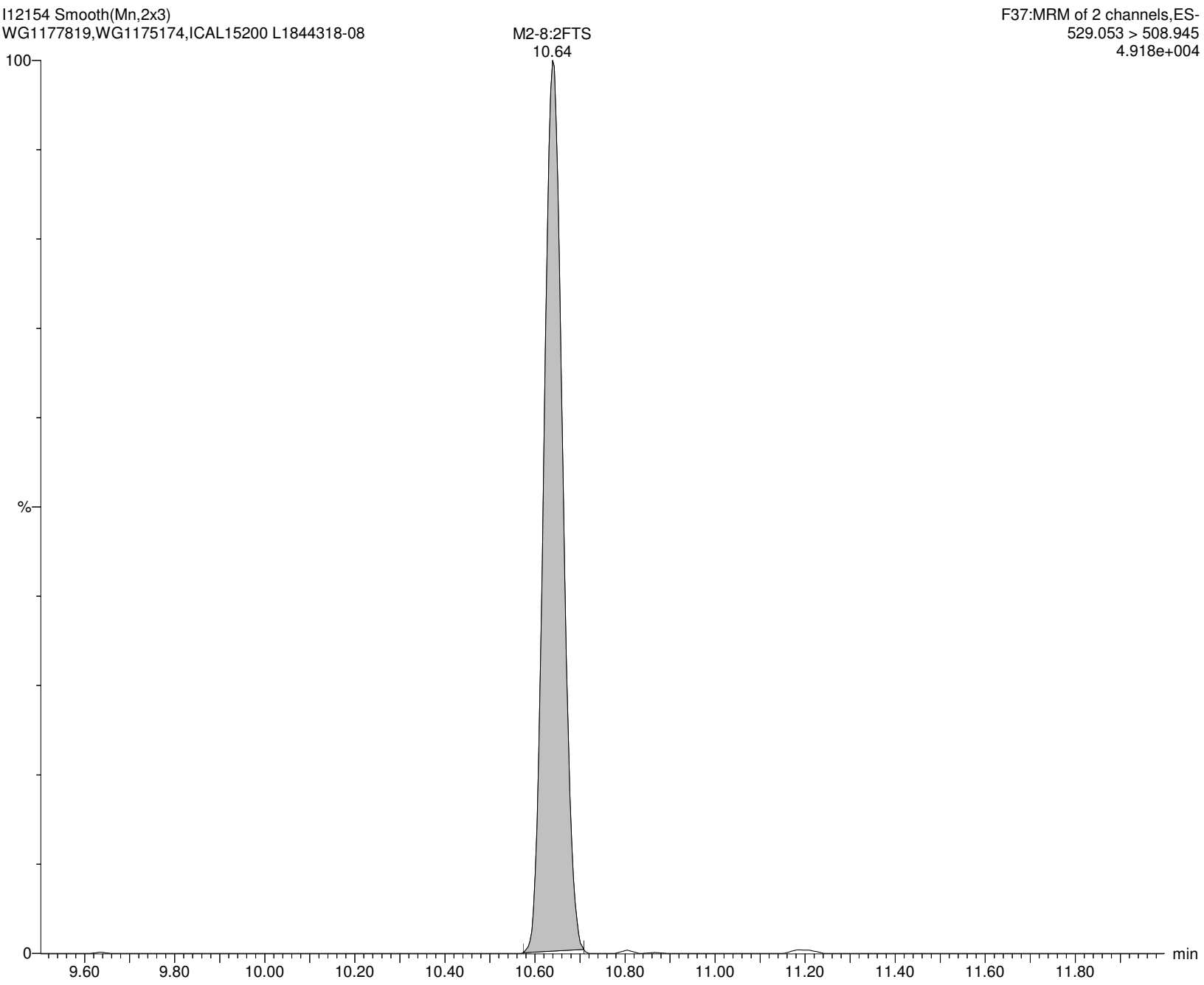

all concentration units in (ng/mL)

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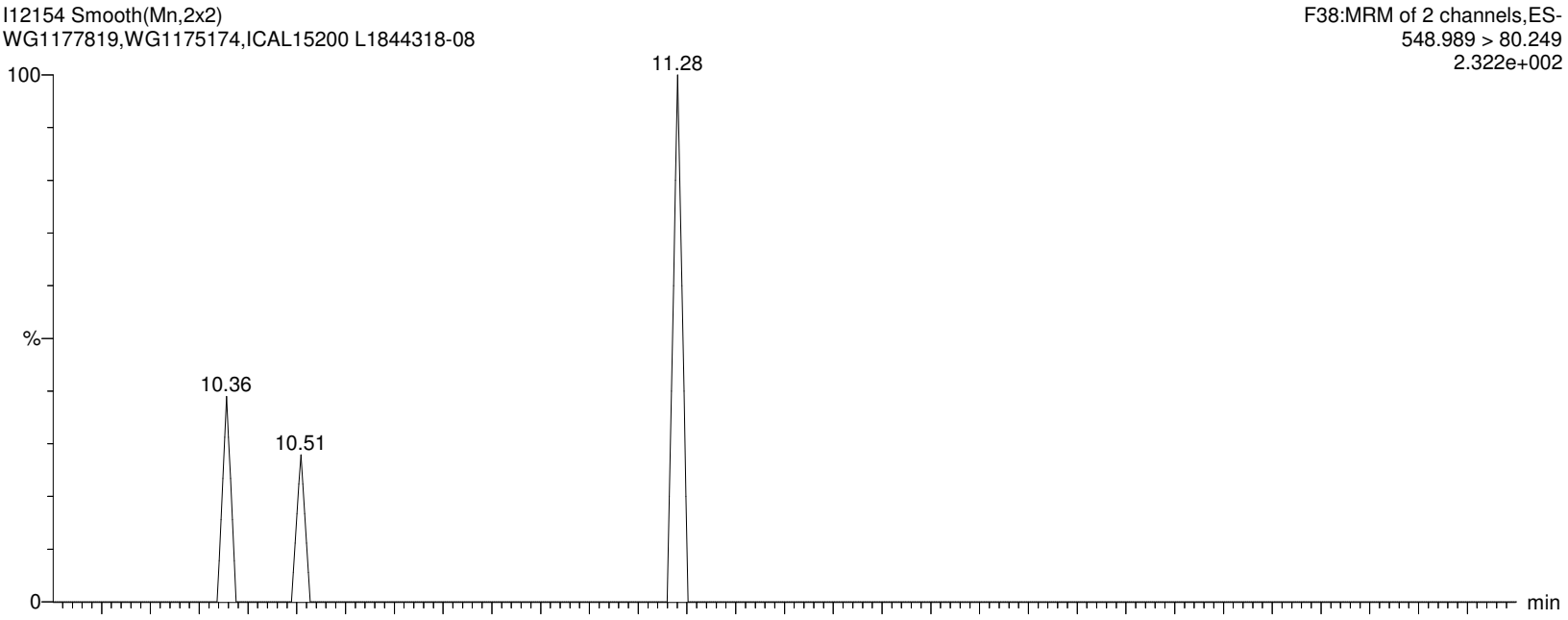

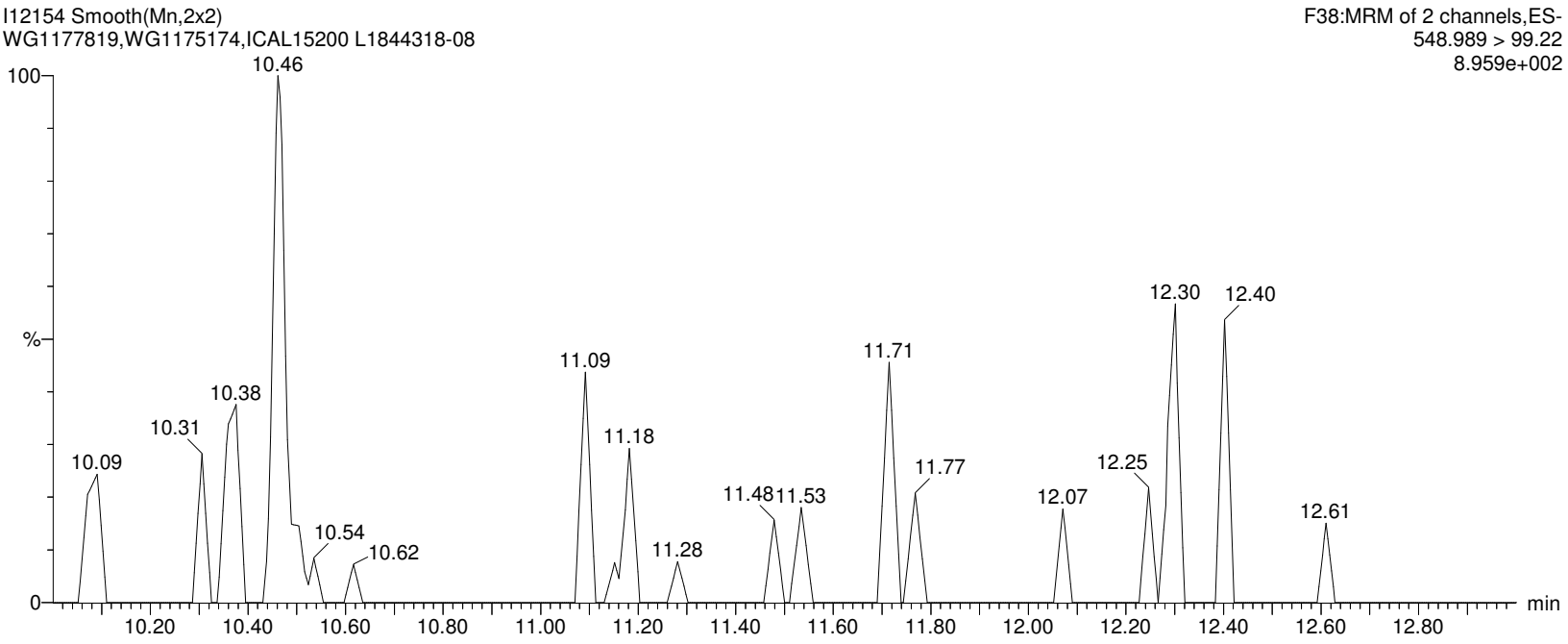

all concentration units in (ng/mL)

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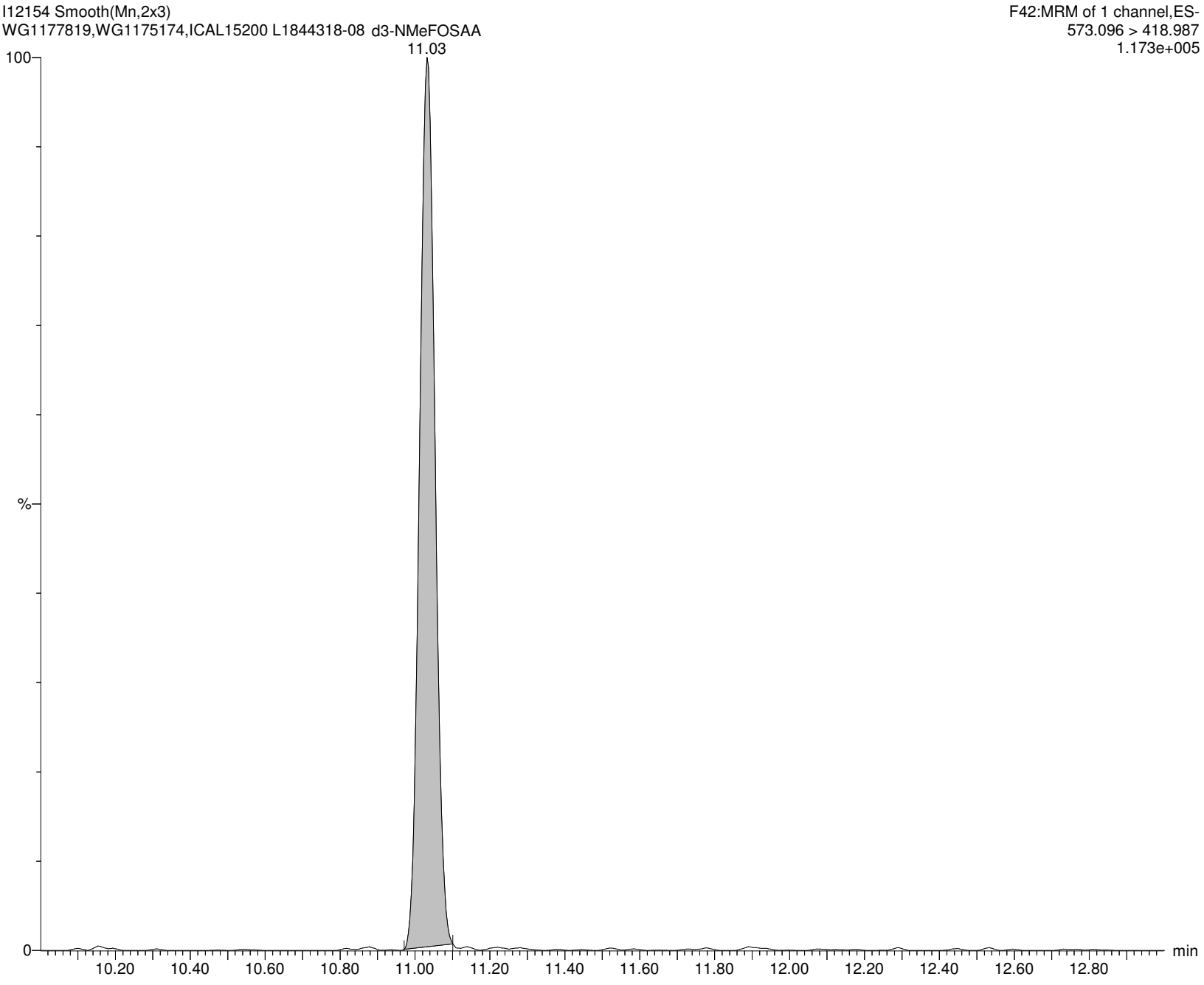

all concentration units in (ng/mL)

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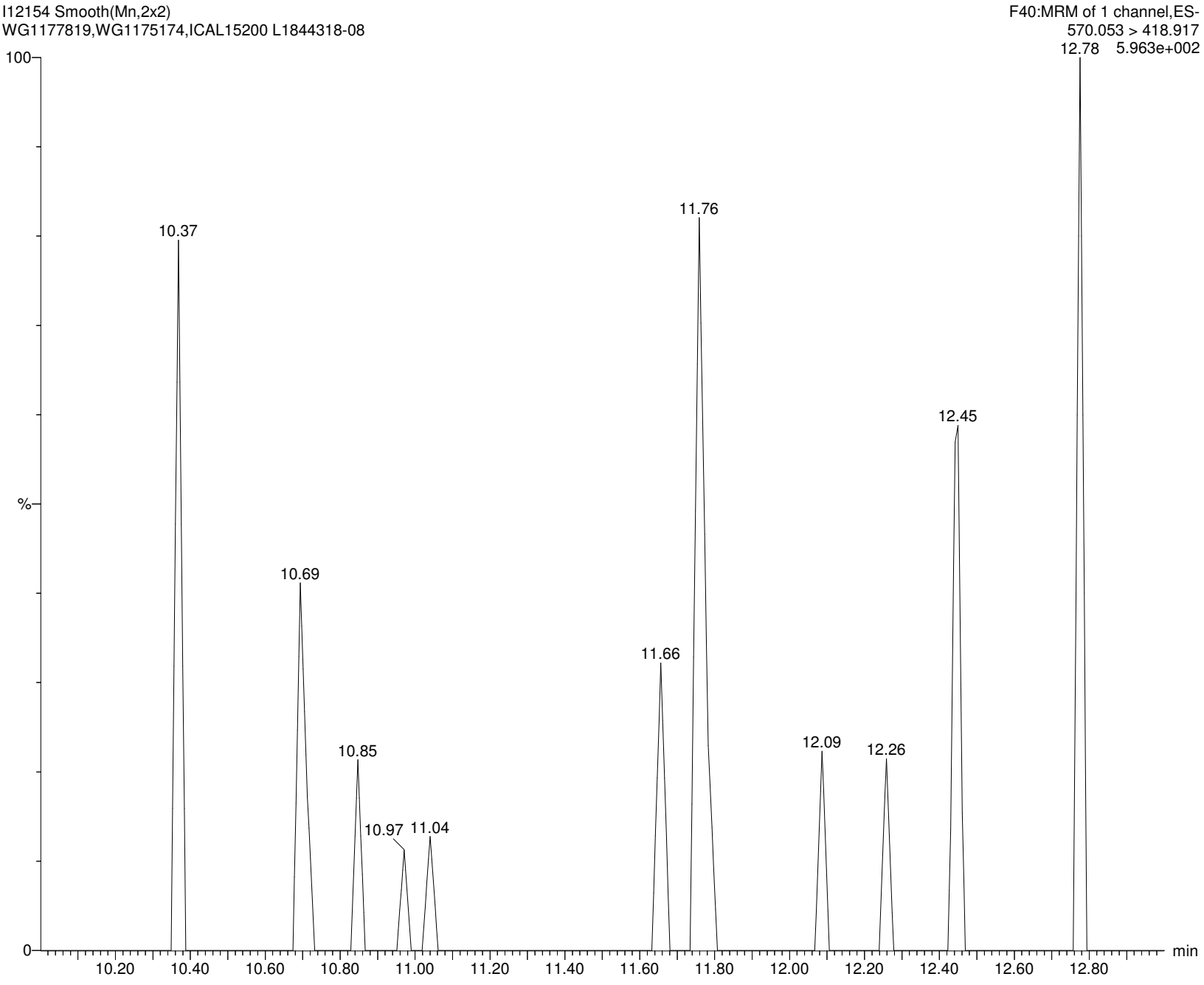

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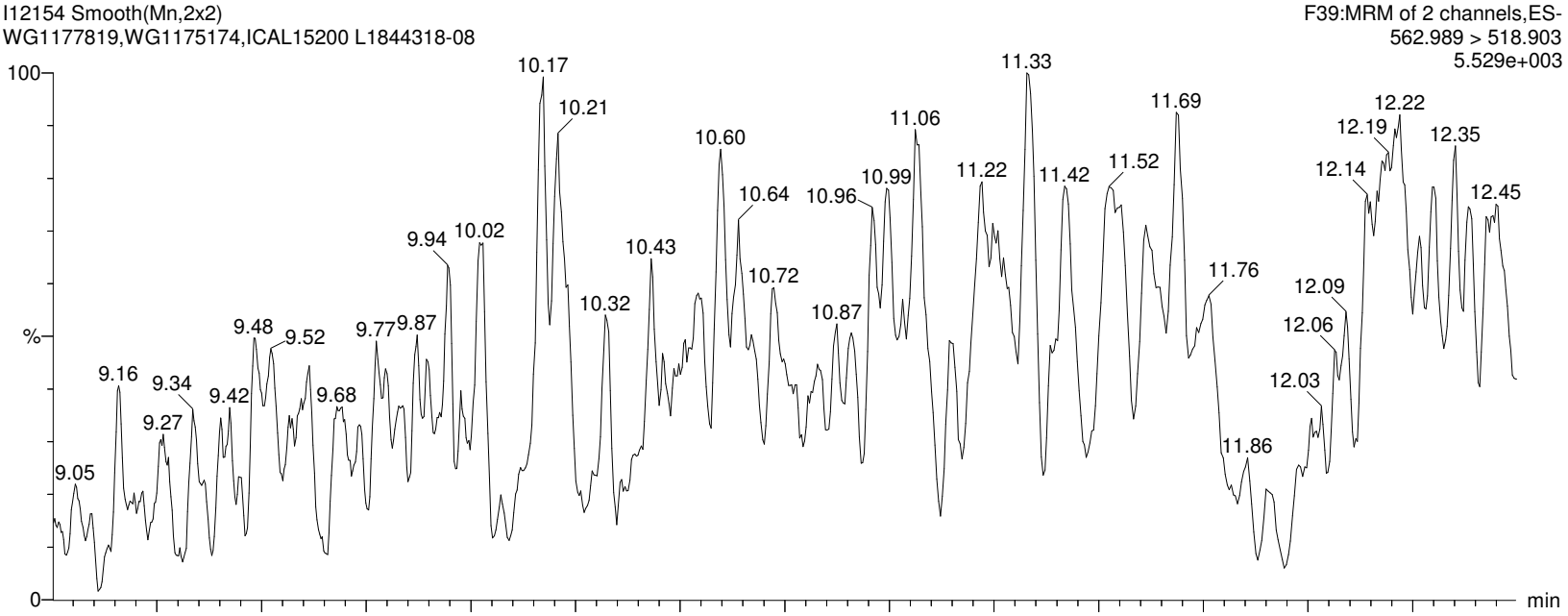

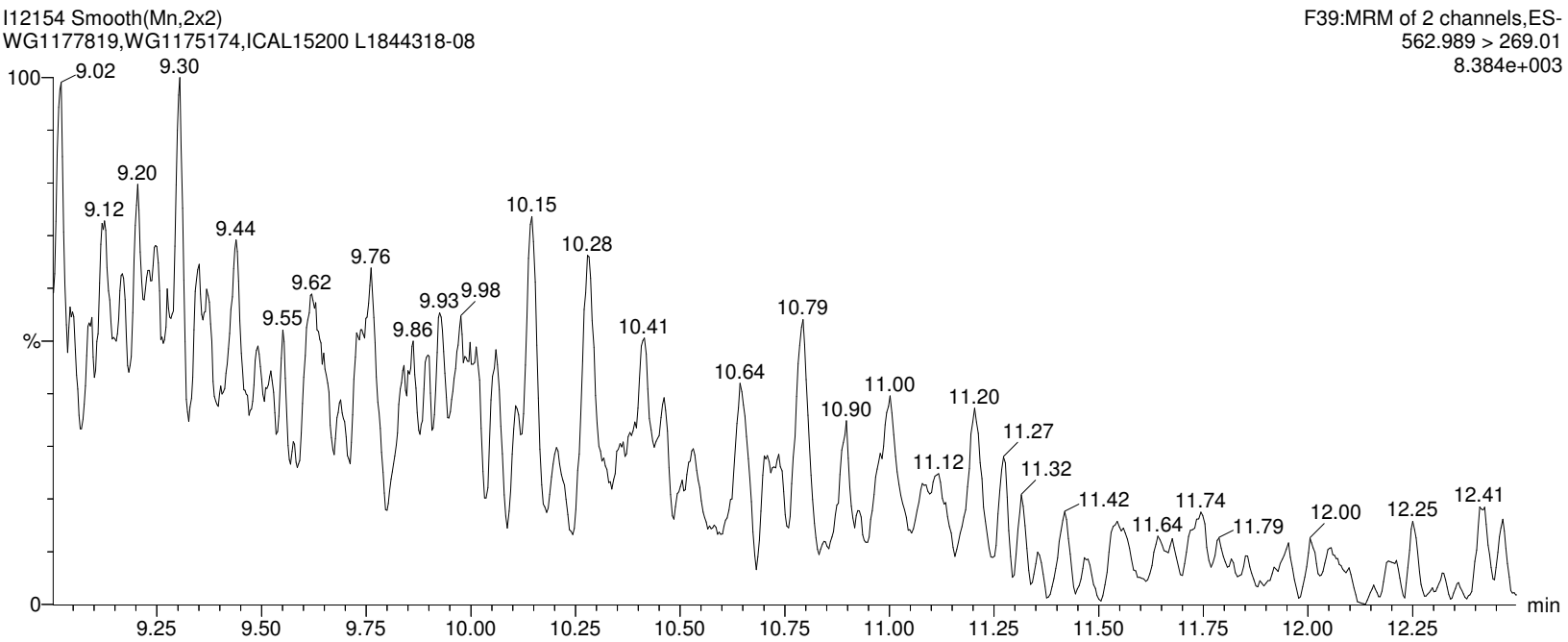

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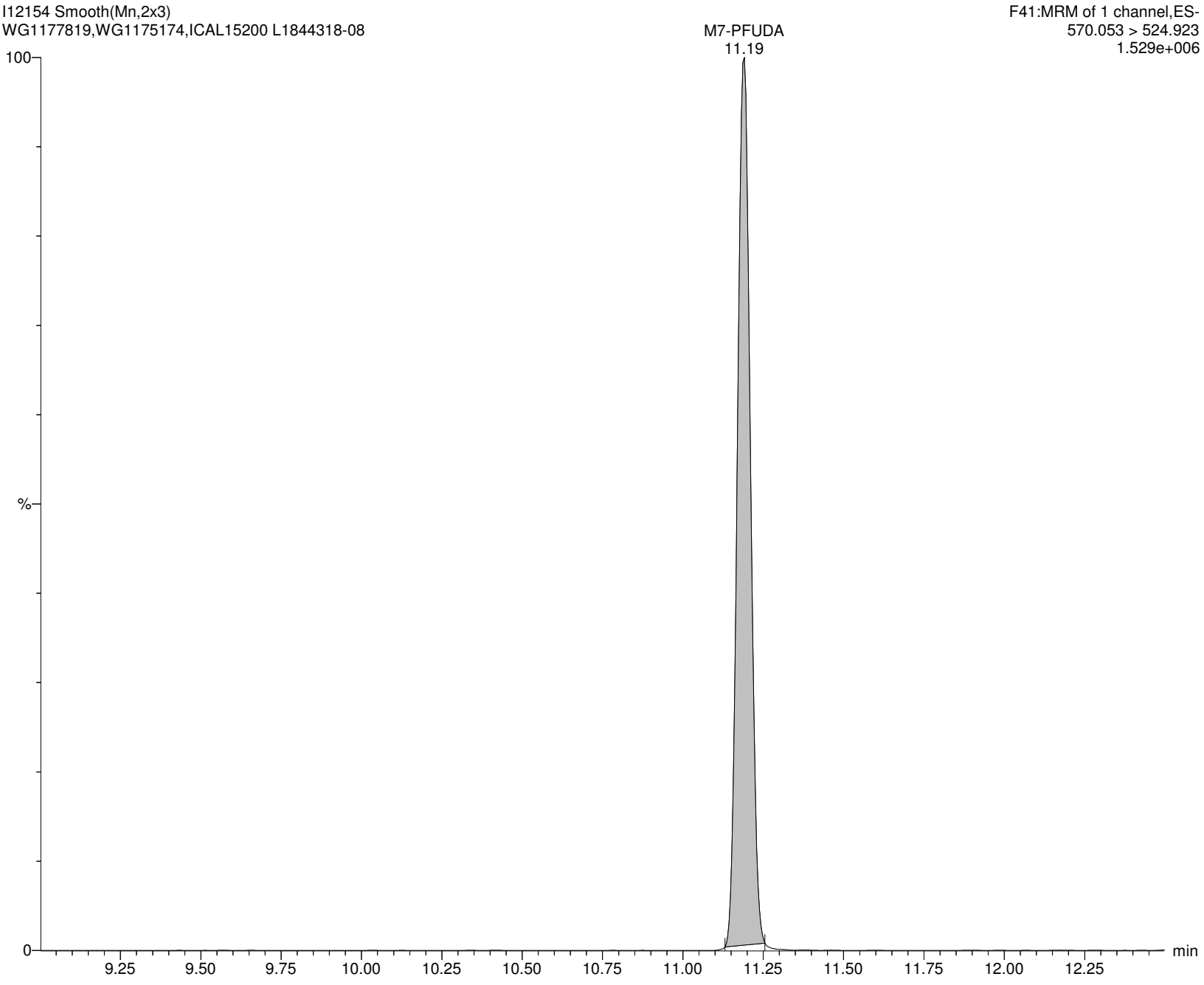

all concentration units in (ng/mL)

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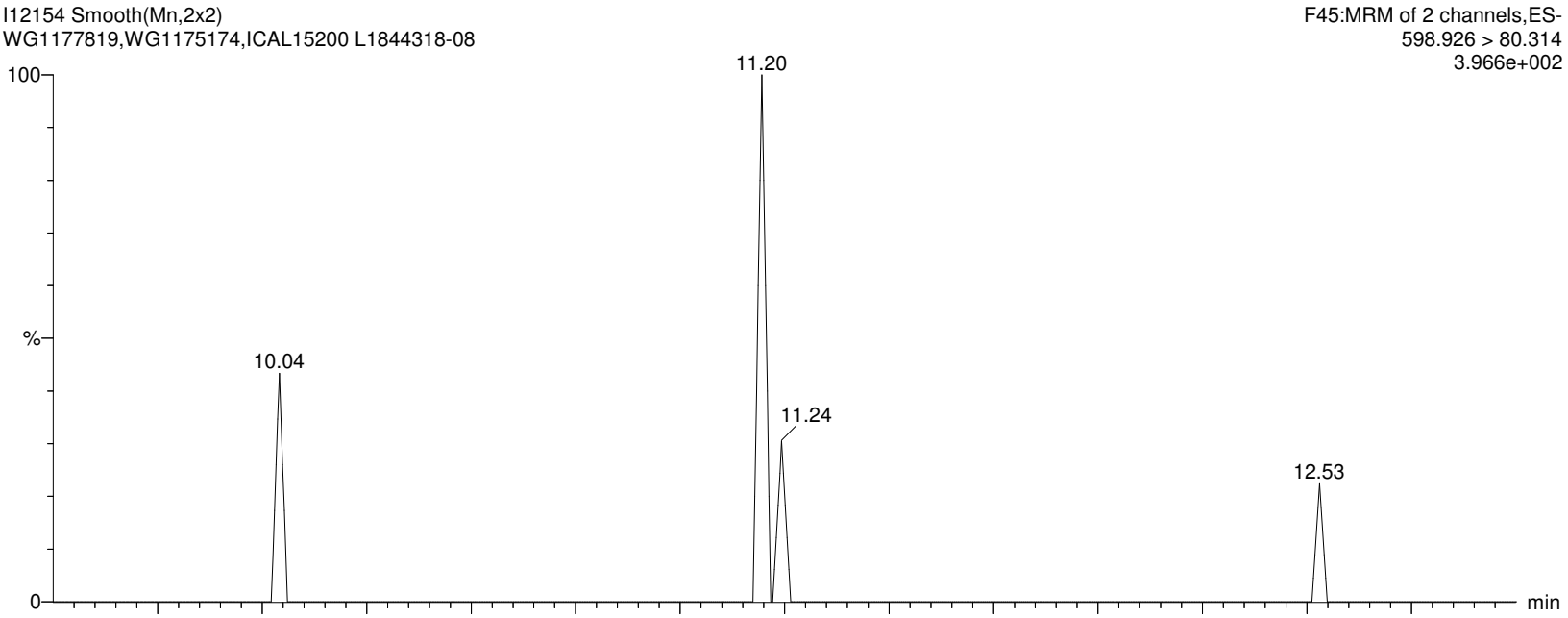

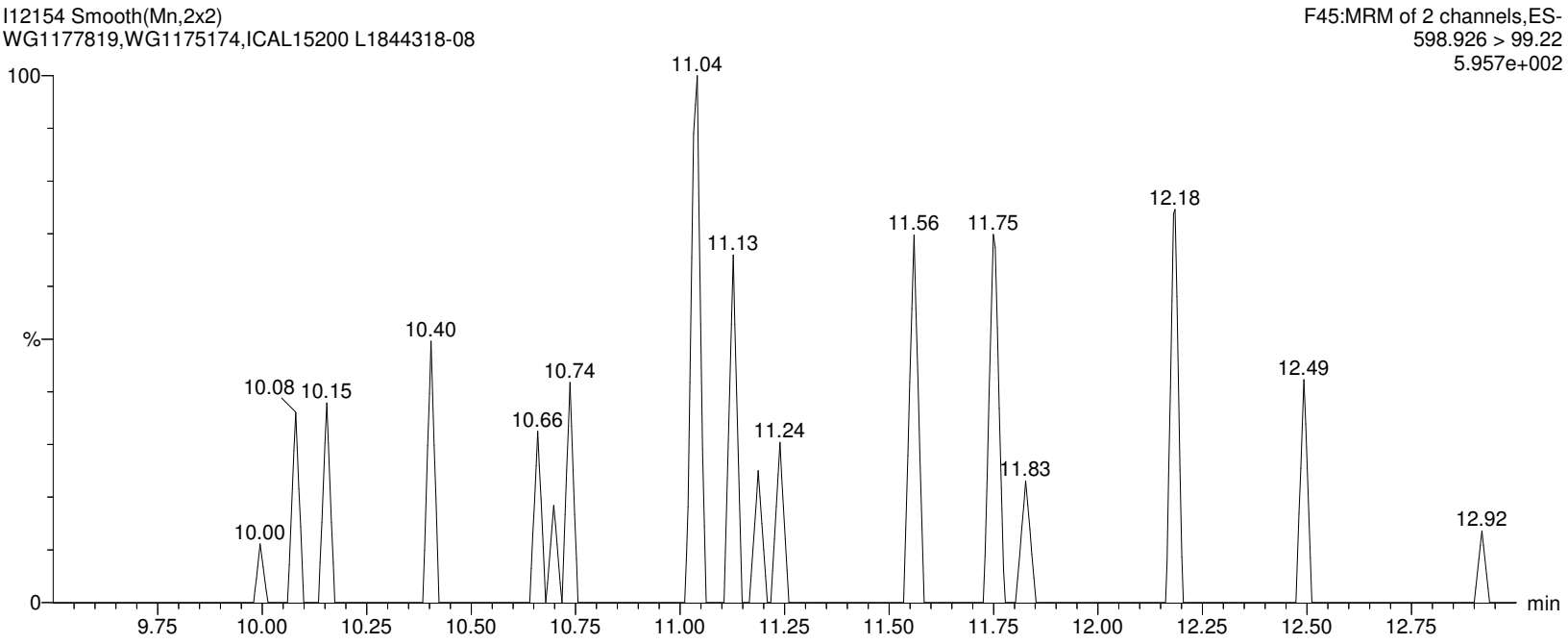

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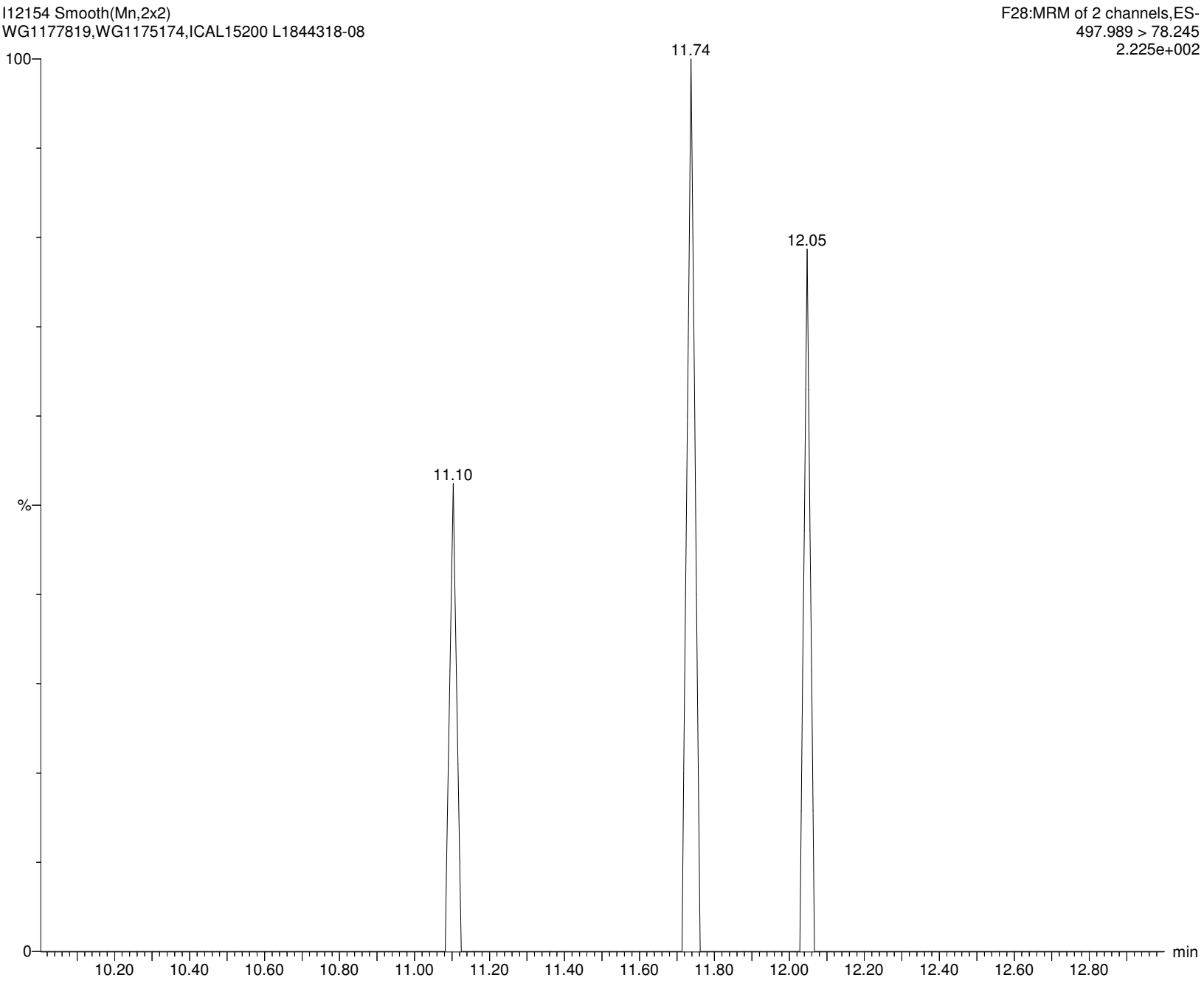

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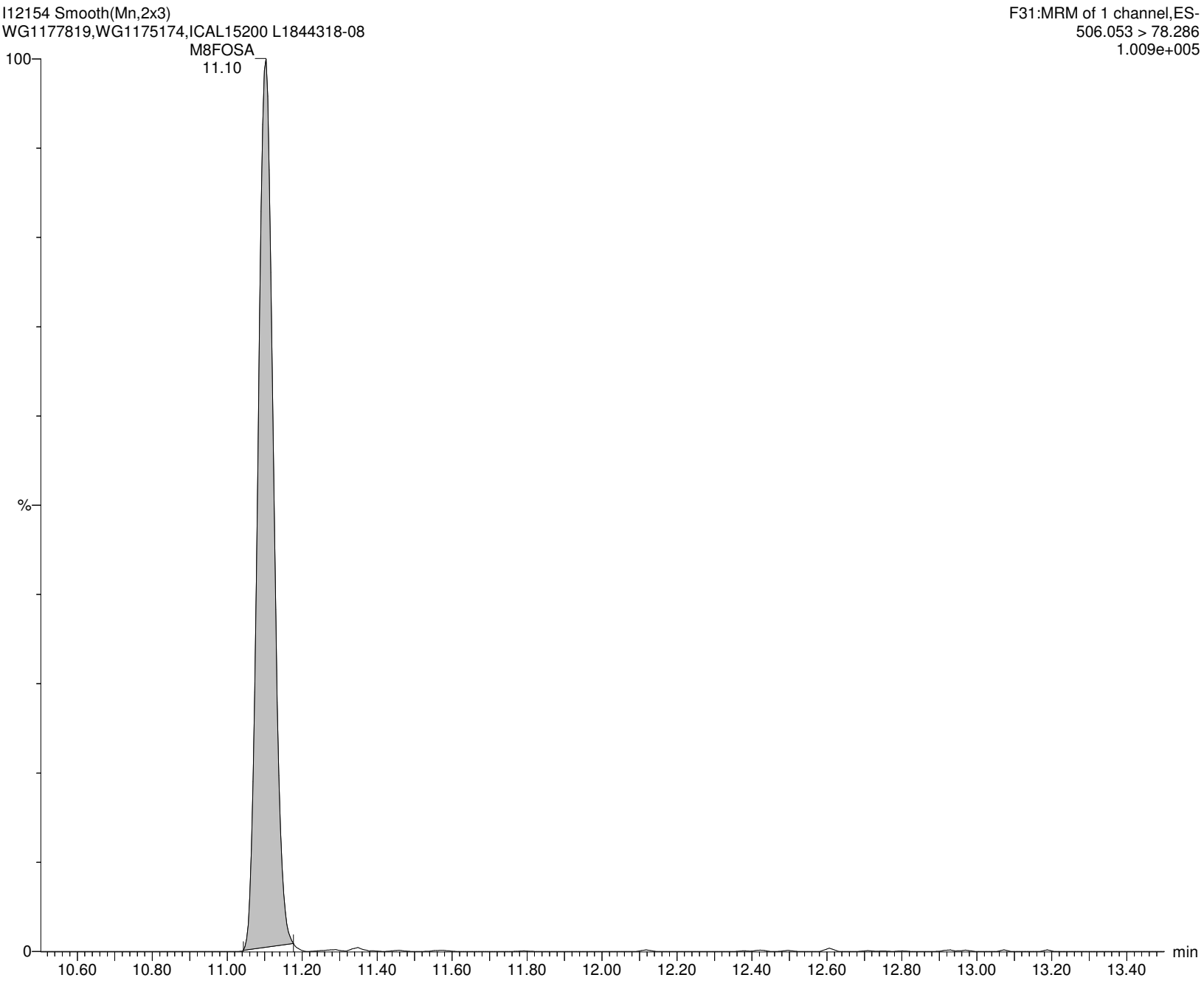

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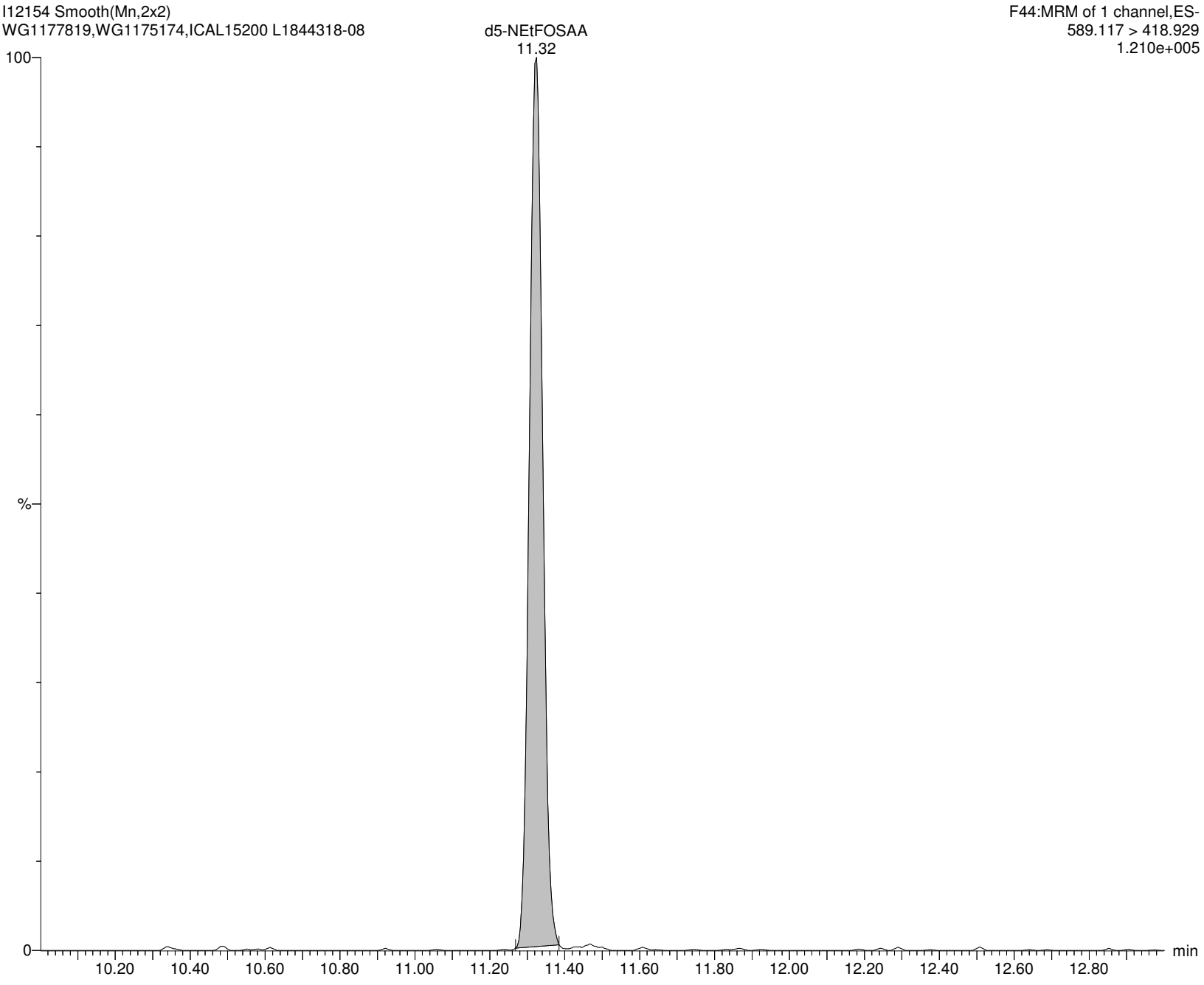

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:56 Eastern Standard Time

Name: I12154
ID: L1844318-08
Date: 10-Nov-2018
Time: 07:24:59
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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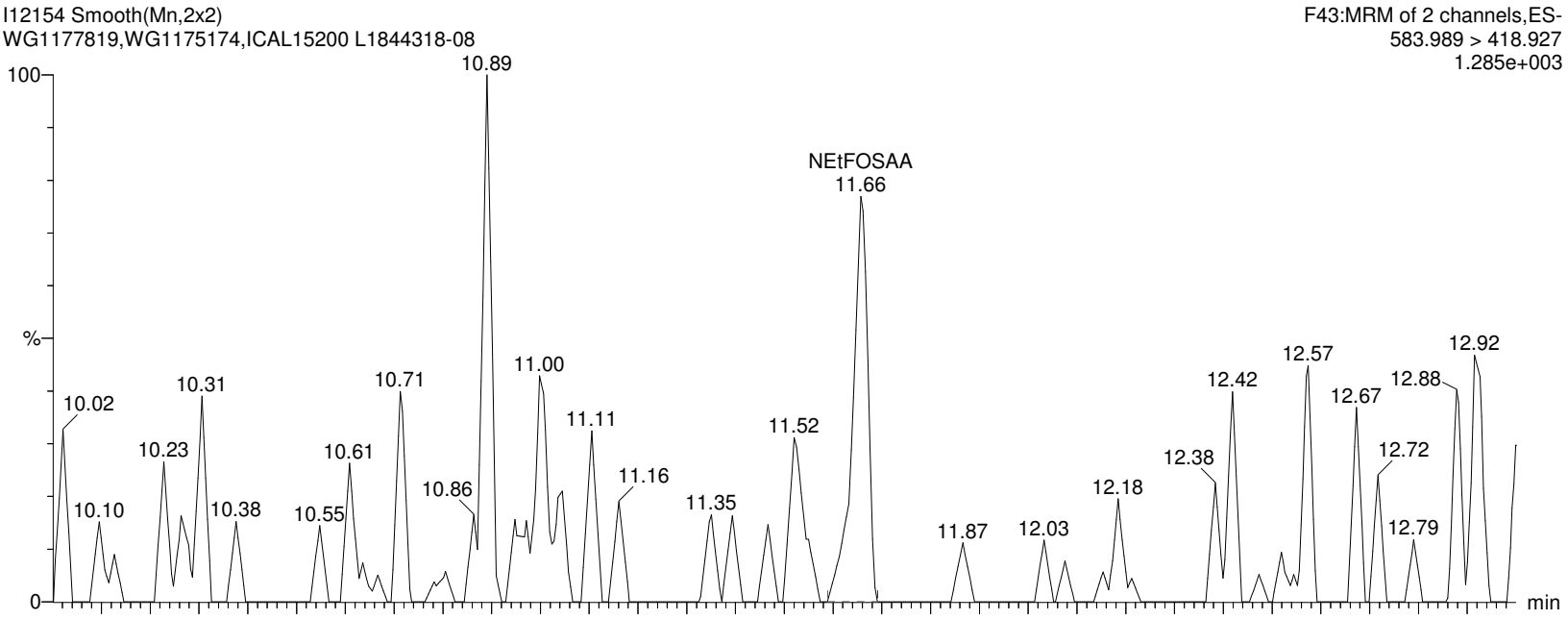

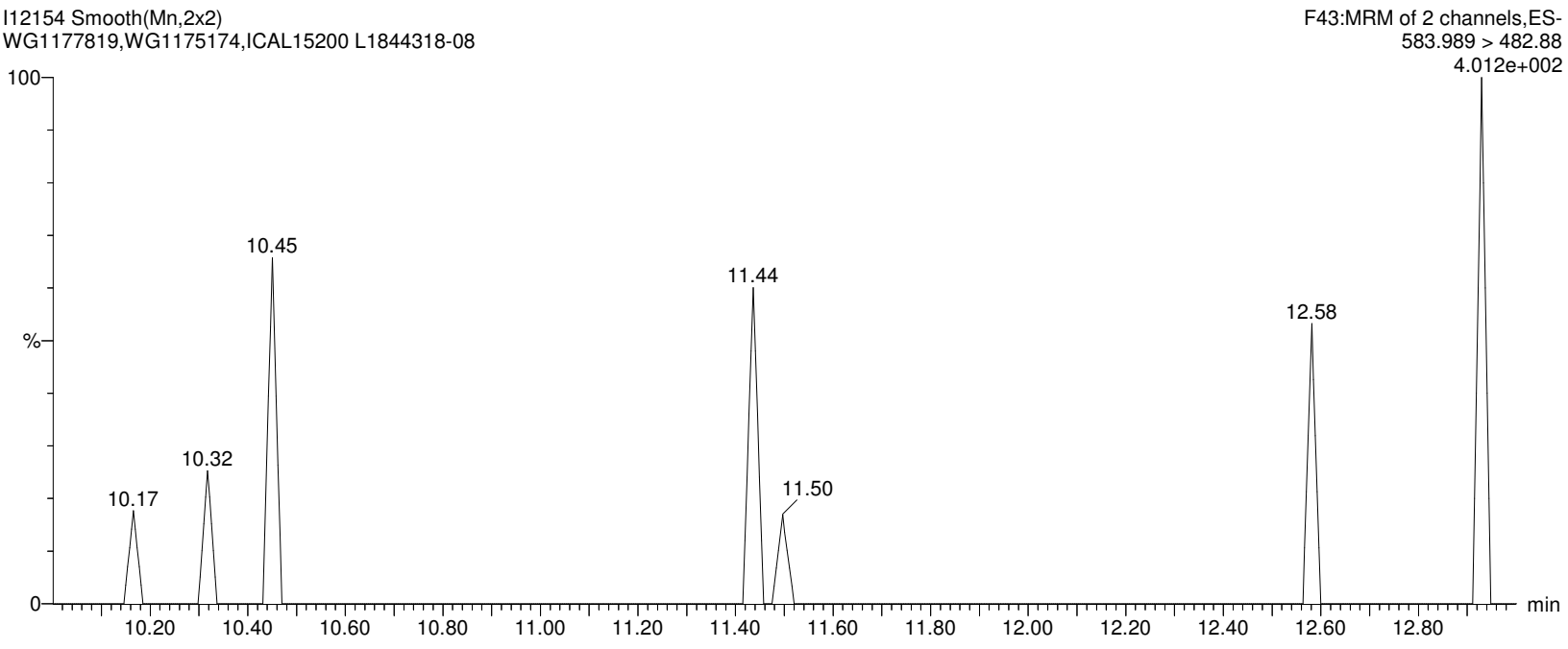

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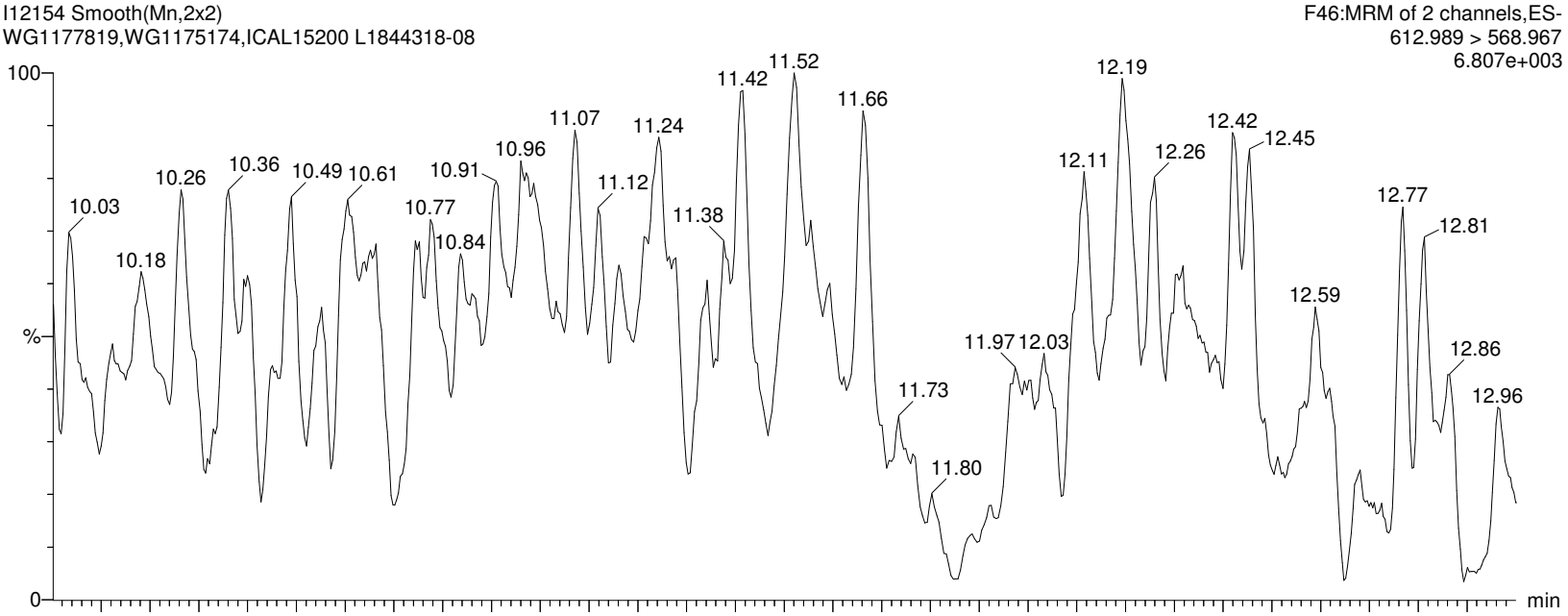

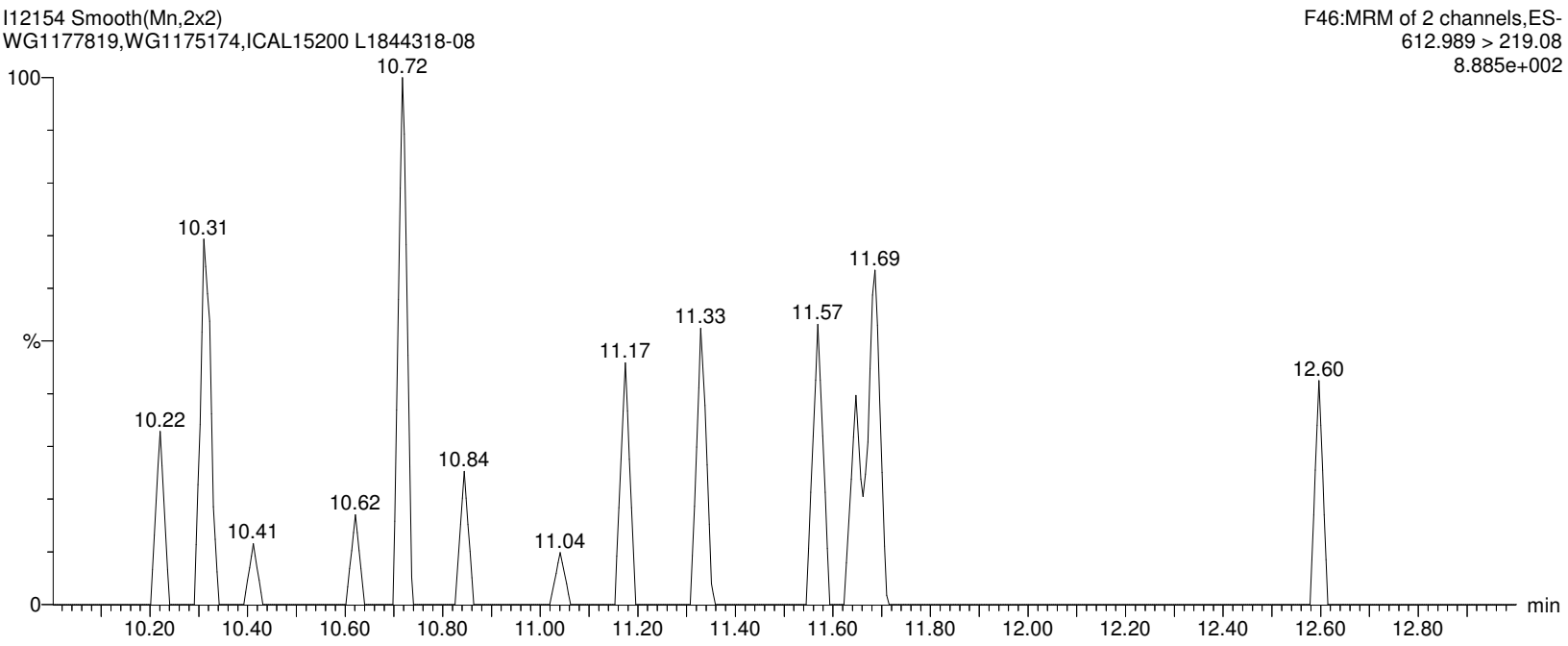

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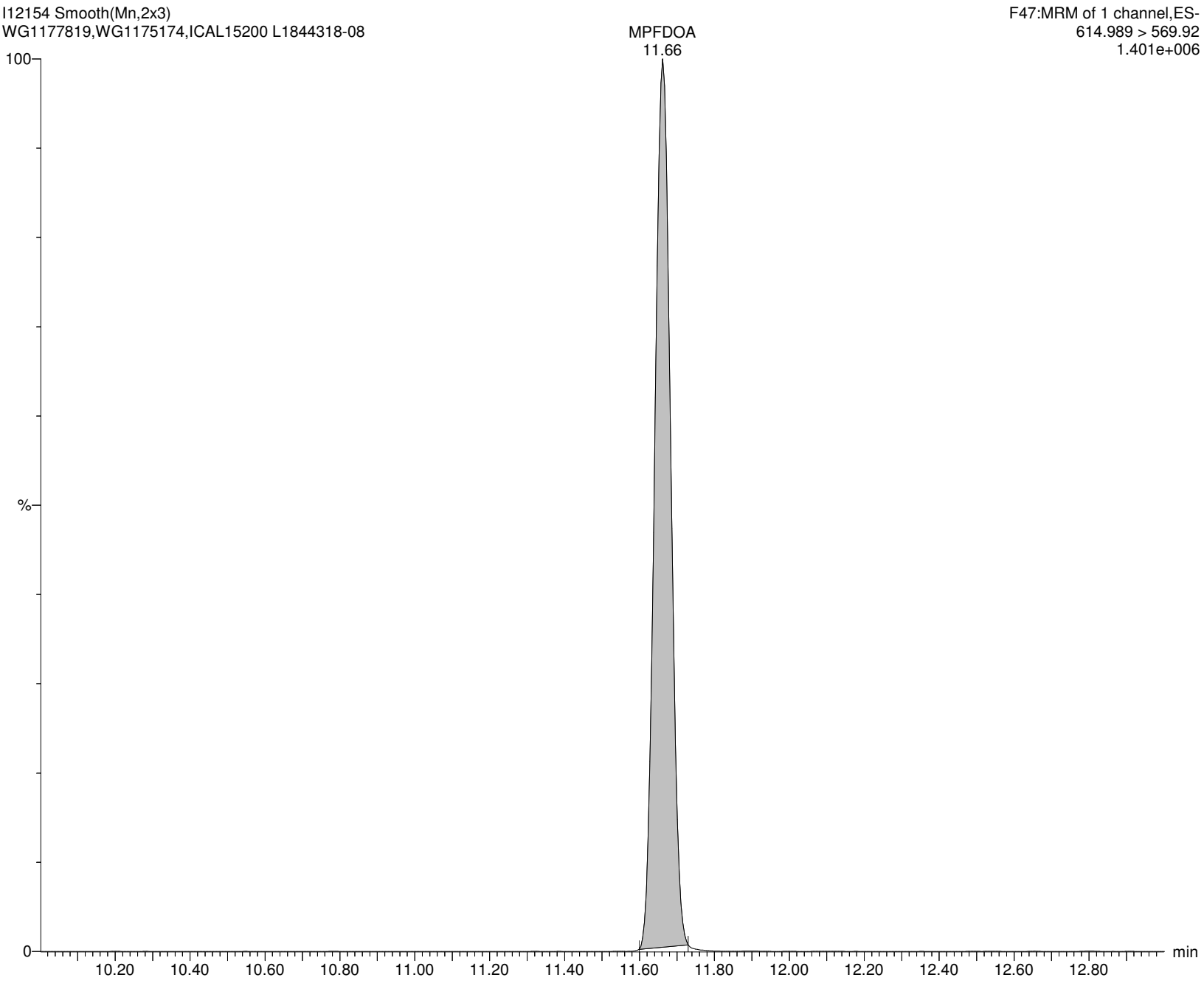

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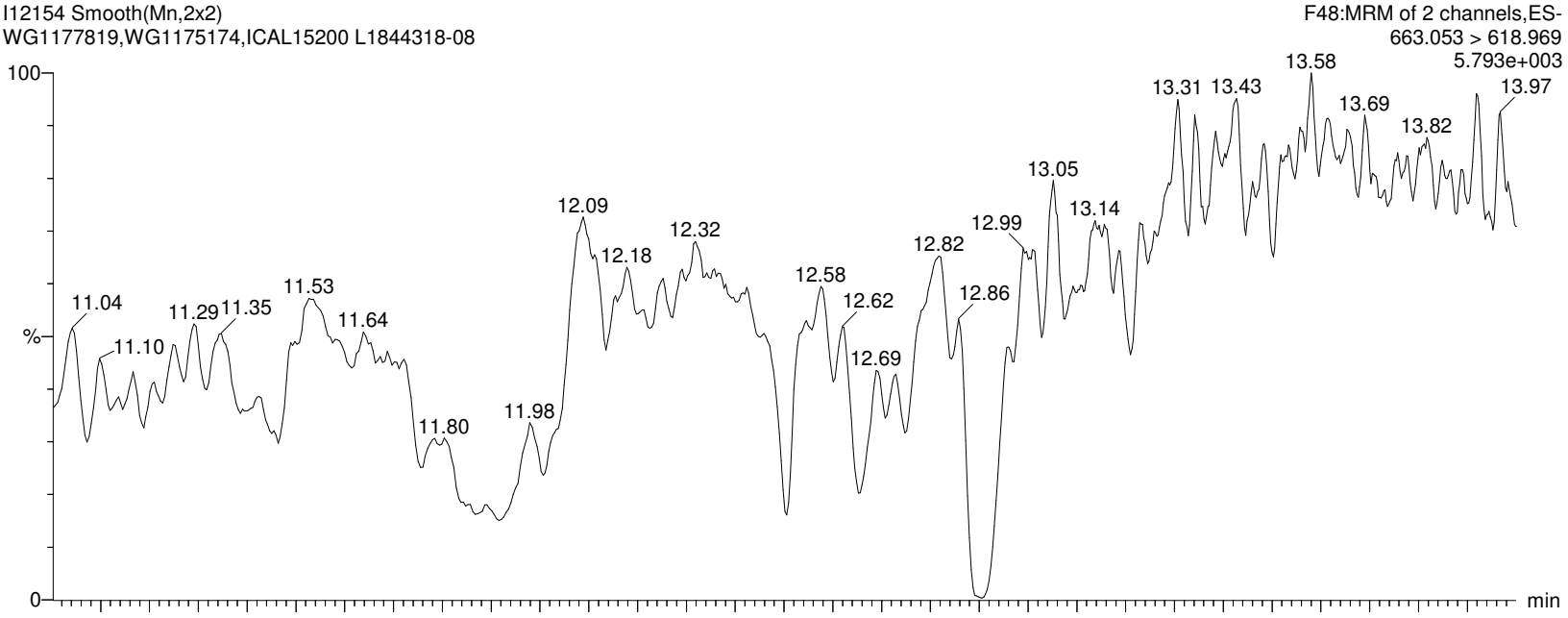

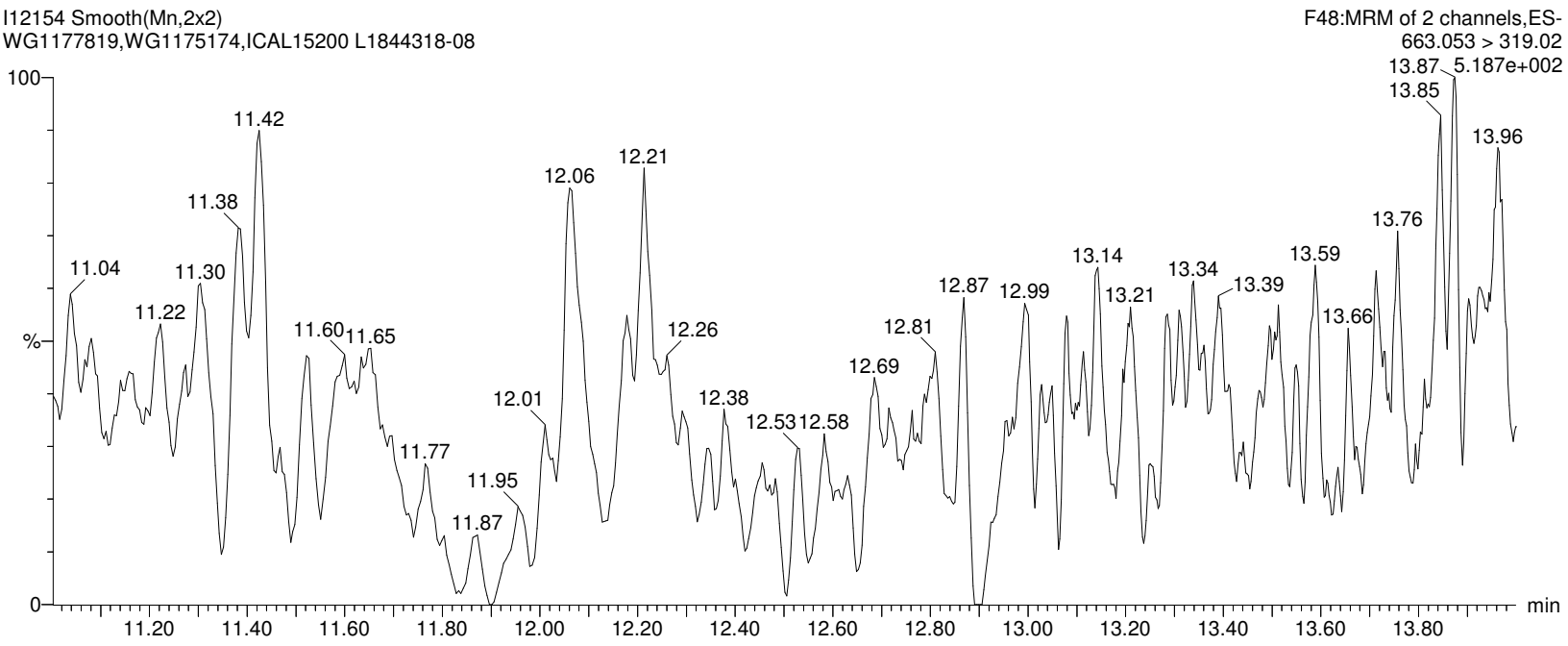

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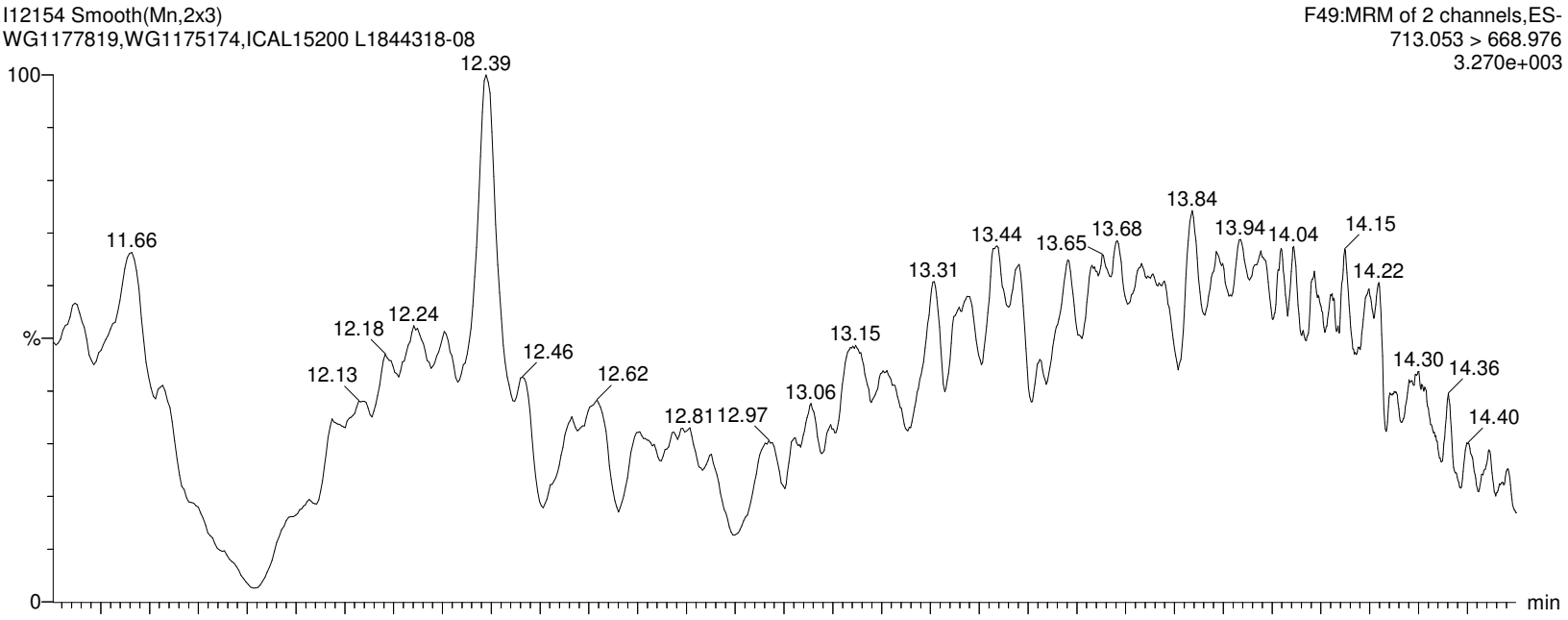

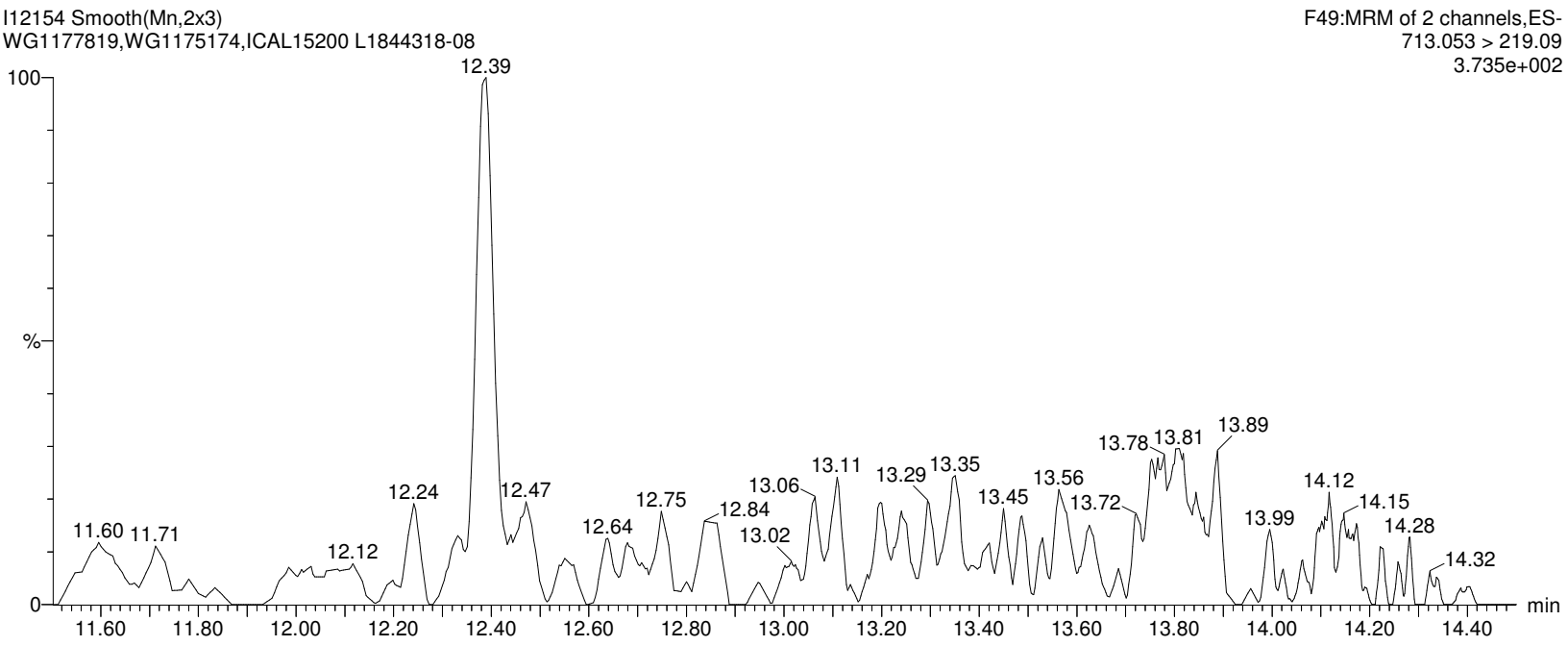

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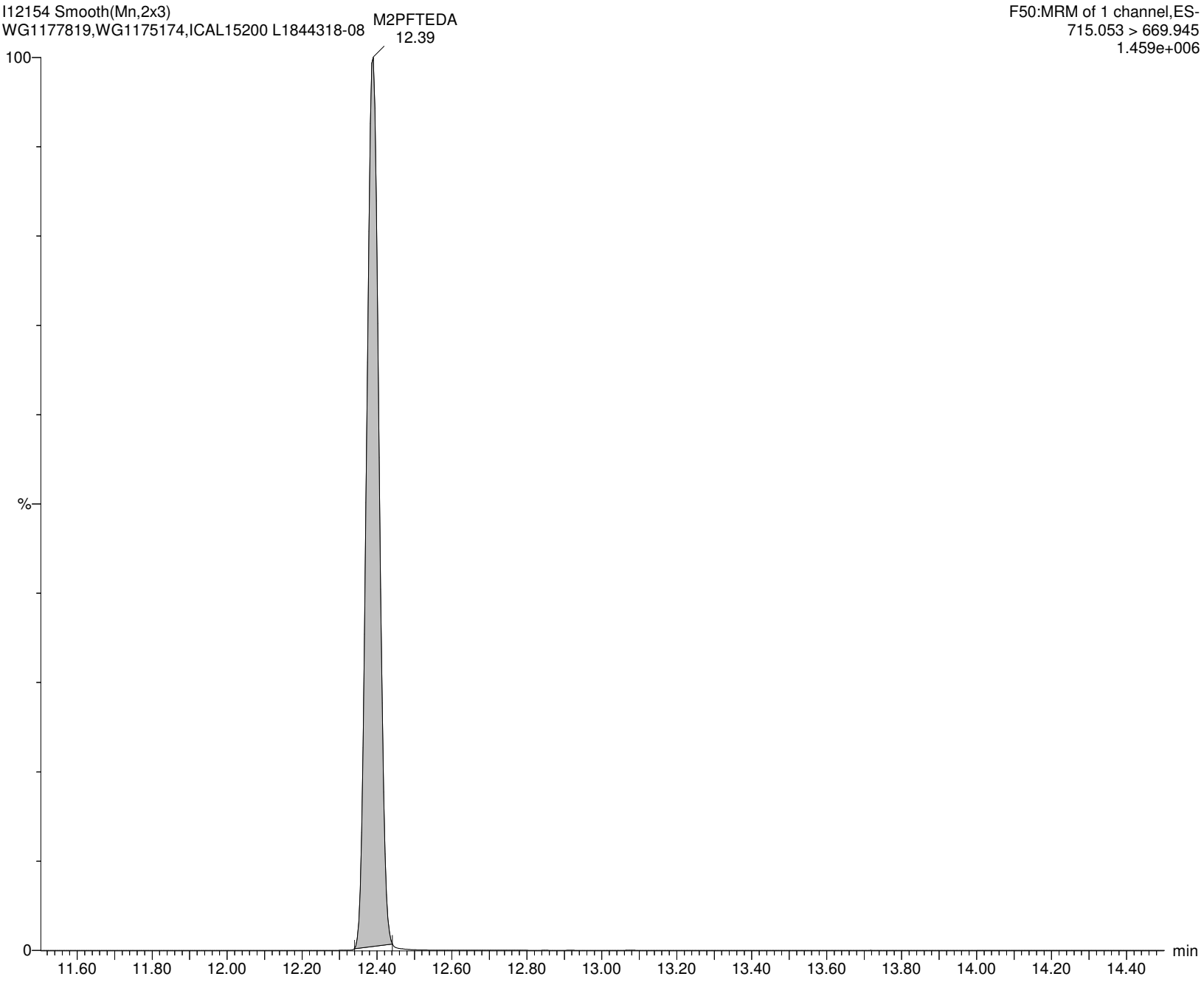

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	475		0.128		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	42760		4.619		na	46.2
3	MPFBA	INT STD	2.15	216.926 > 172.137	42378		10.433		na	104.3
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	59637		11.377		na	113.8
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	11441		8.307		na	83.1
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	5195		6.080		na	60.8
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	76900		9.390		na	93.9
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	101058		10.495		na	104.9
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	7982		10.434		na	104.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	992		0.108		na	
21	M2PFOA	INT STD	9.27	415.032 > 369.968	113673		6.020		na	60.2
22	PFOA	335-67-1		412.989 > 368.9	992		0.108		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	94472		10.306		na	103.1
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4033		5.688		na	56.9
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	85067		9.304		na	93.0
29	br-PFOS	1763-23-1	9.88	498.989 > 80.294	43		0.031	1.98	YES	
30	L-PFOS	1763-23-1	10.05	498.989 > 80.294	18		0.019	0.23	YES	
31	PFOS	1763-23-1		498.989 > 80.294	62		0.050		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	11049		6.820		na	68.2
33	M8PFOS	INT STD	10.07	507.053 > 80.294	9471		9.193		na	91.9
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	85143		5.727		na	57.3
36	M6PFDA	INT STD	10.64	519.053 > 473.931	77966		10.142		na	101.4
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2417		5.803		na	58.0
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6522		7.870		na	78.7
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	120		0.183		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	72935		11.335		na	113.3
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	8908		3.248		na	32.5
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5637		7.051		na	70.5
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	119		0.206	3.87	NO	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	69528		9.617		na	96.2
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	246		0.045		na	
52	PFTA	376-06-7	12.39	713.053 > 668.976	260		0.057		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	54615		10.199		na	102.0

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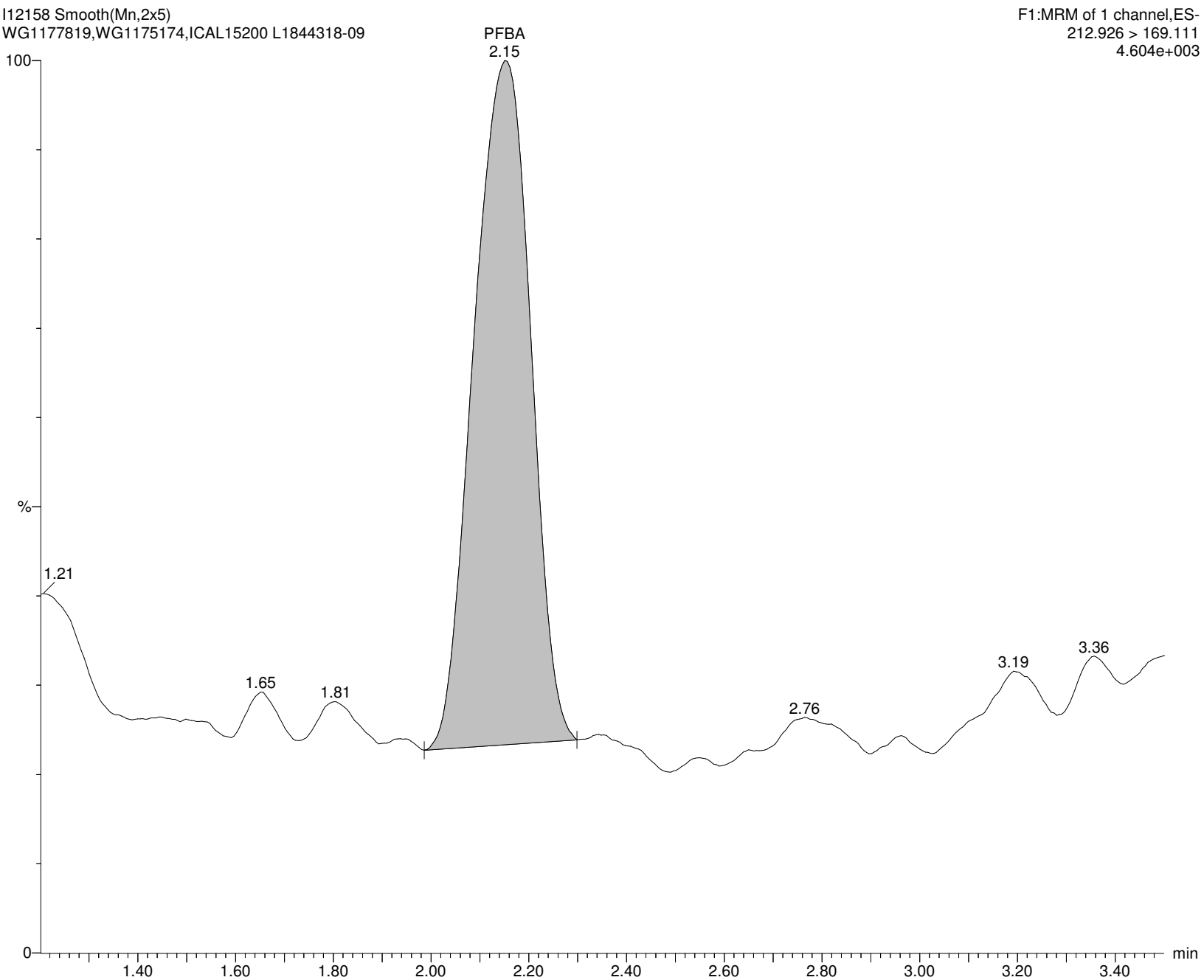

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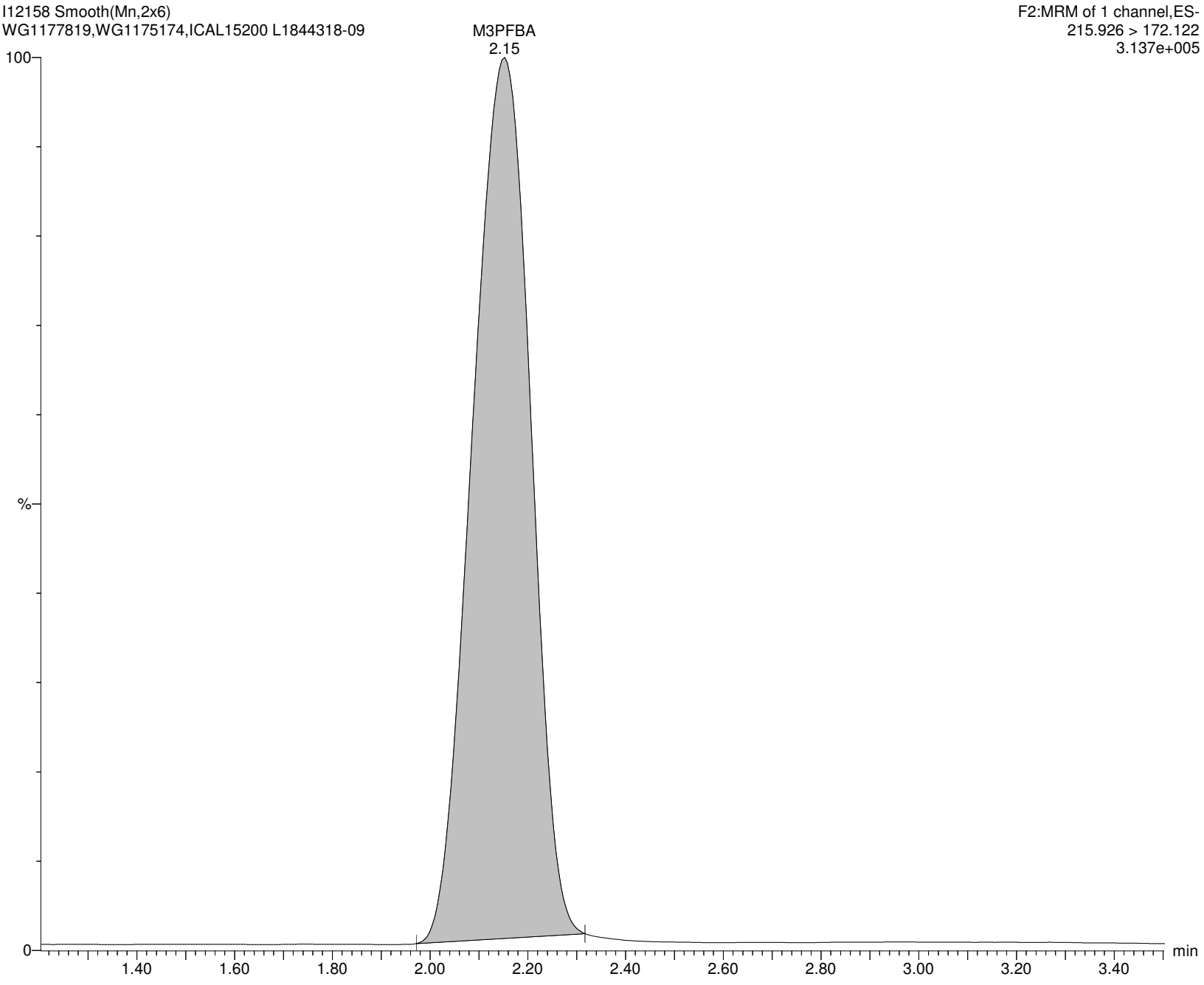

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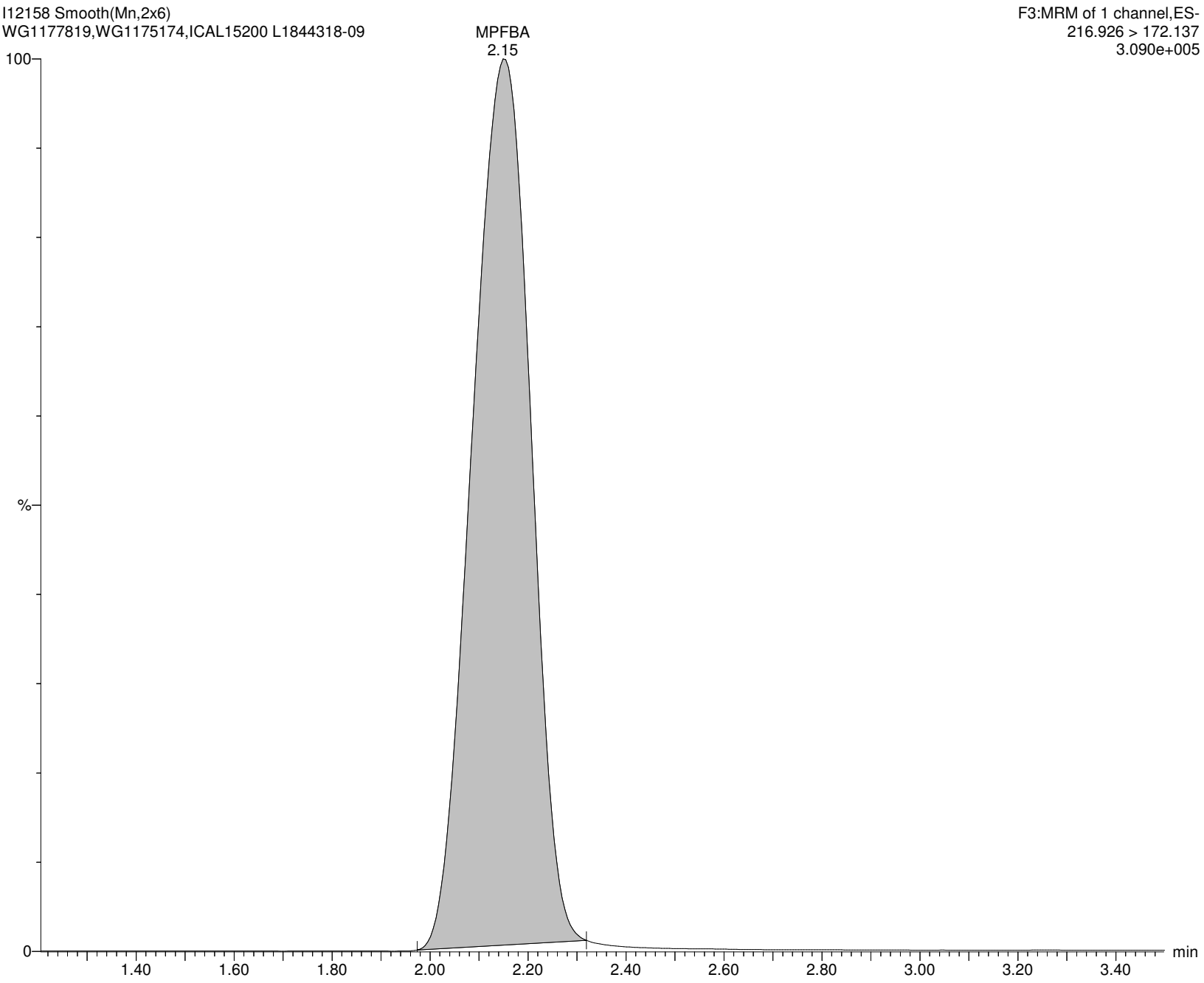

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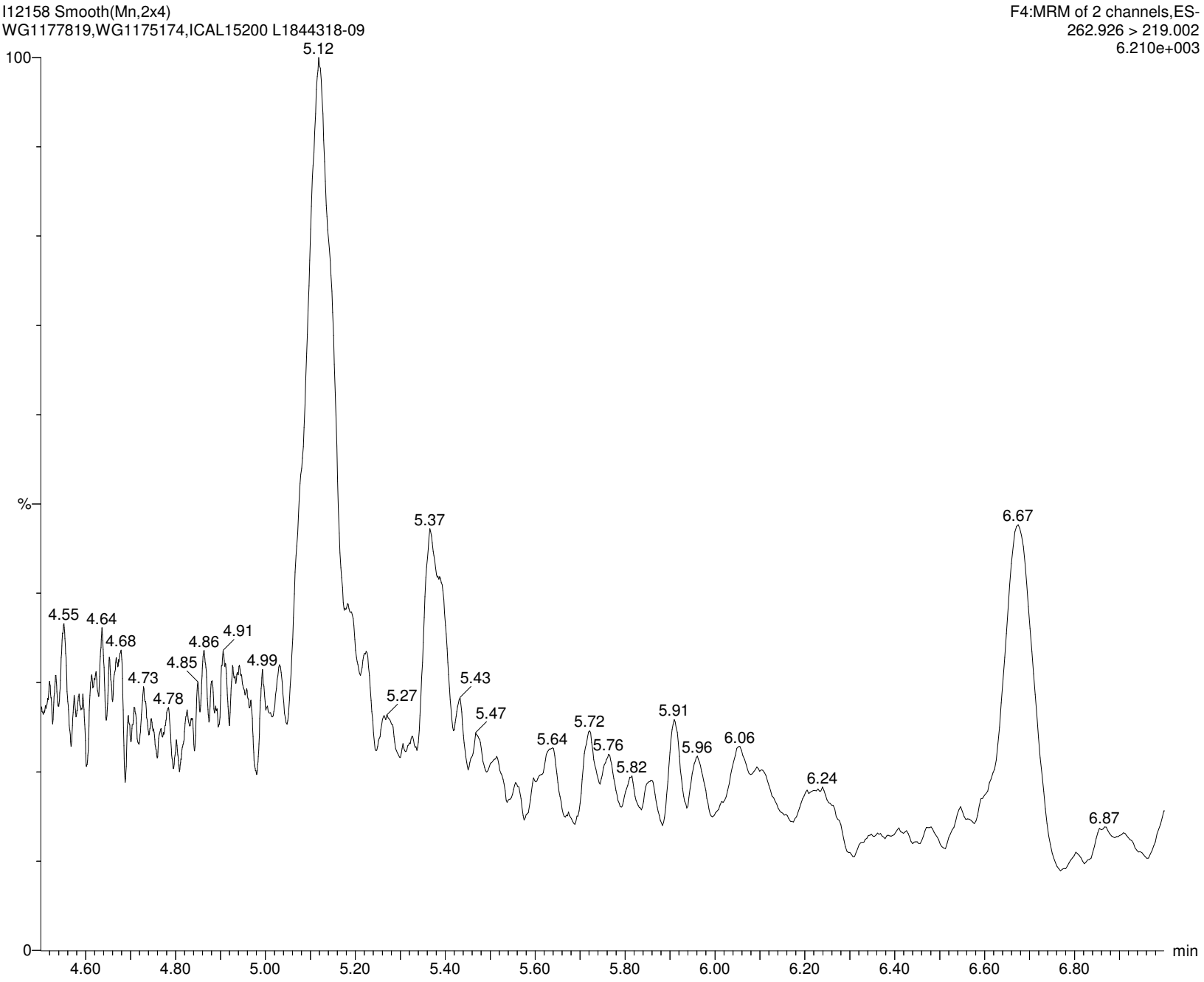

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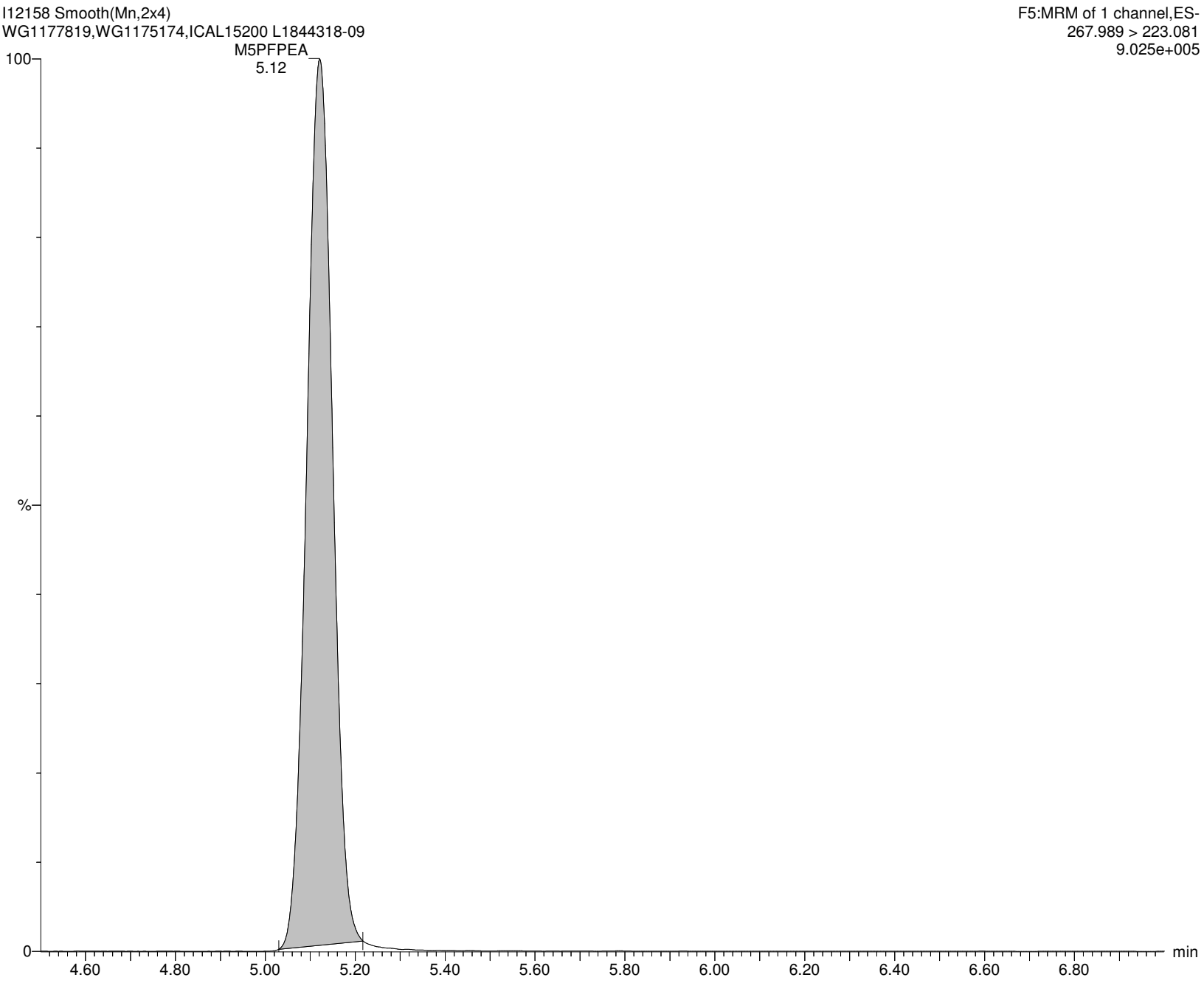

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:03 Eastern Standard Time

Name: I12158
ID: L1844318-09
Date: 10-Nov-2018
Time: 08:31:16
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEA0276
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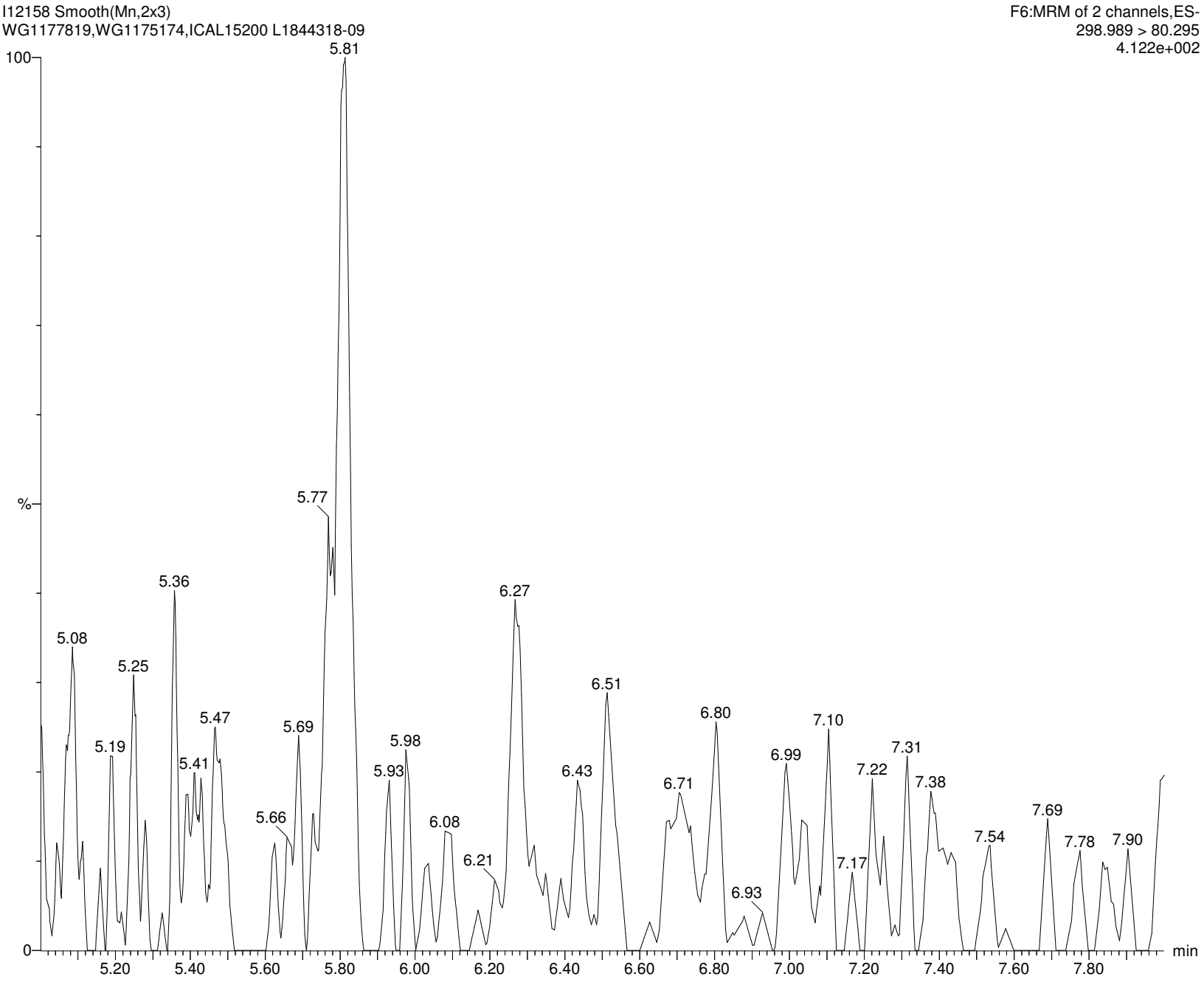

all concentration units in (ng/mL)

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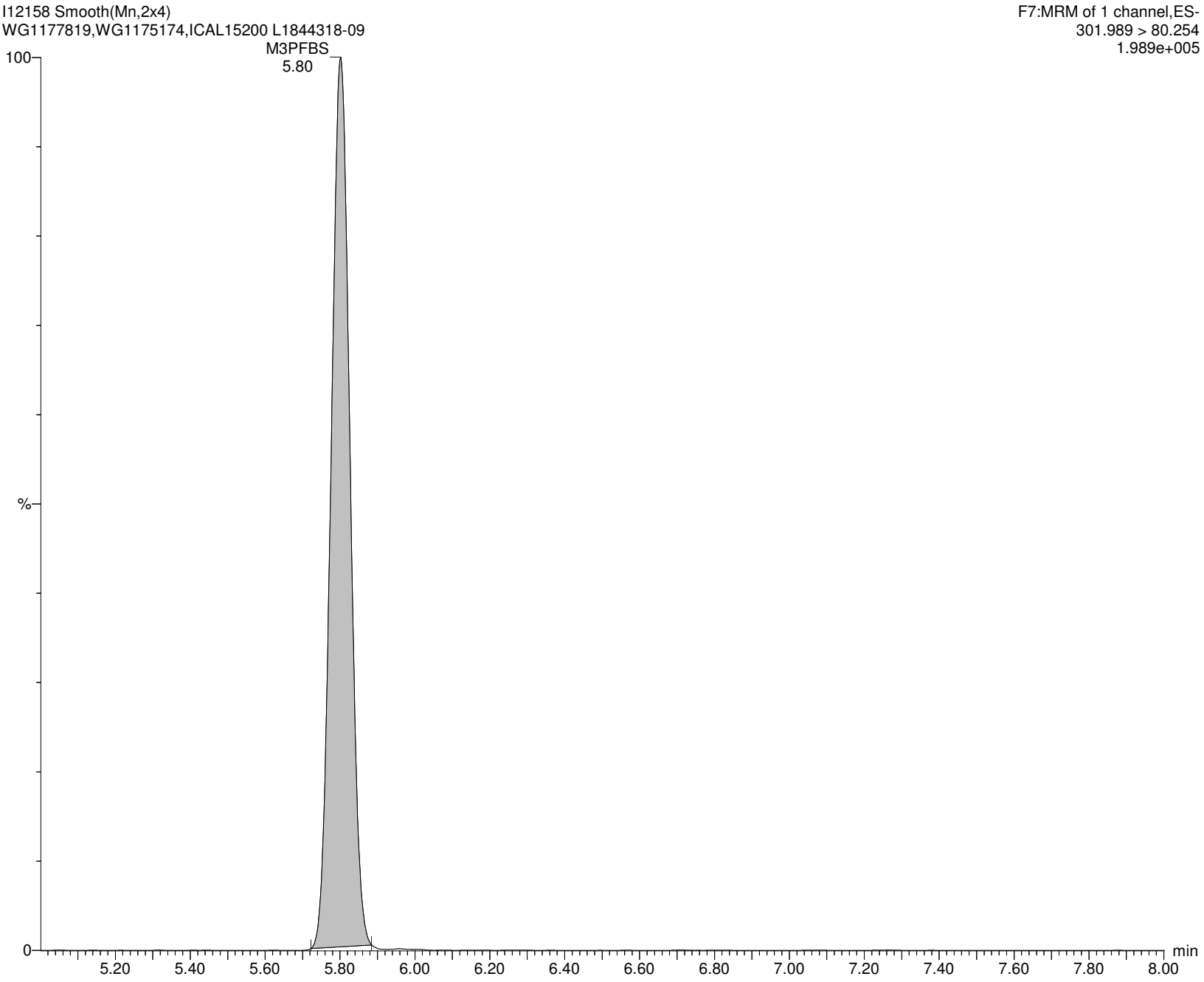
M3PFBS



all concentration units in (ng/mL)

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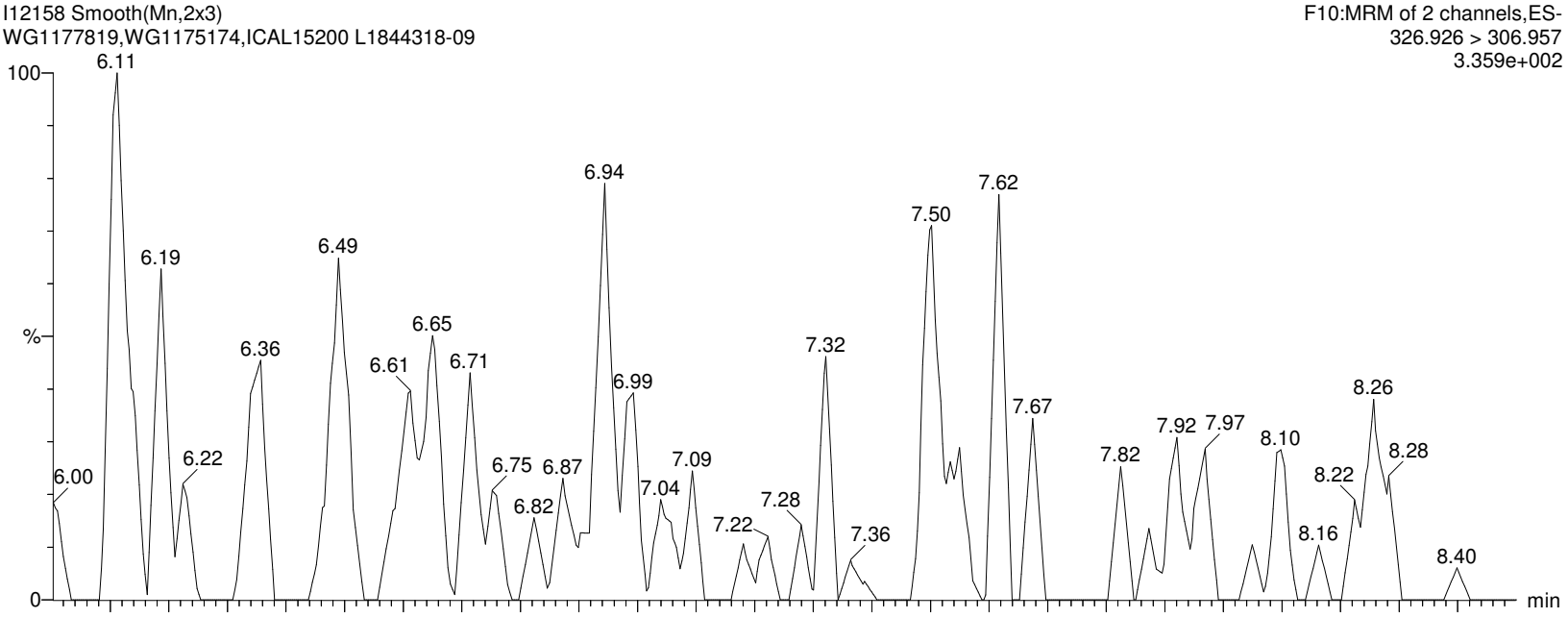
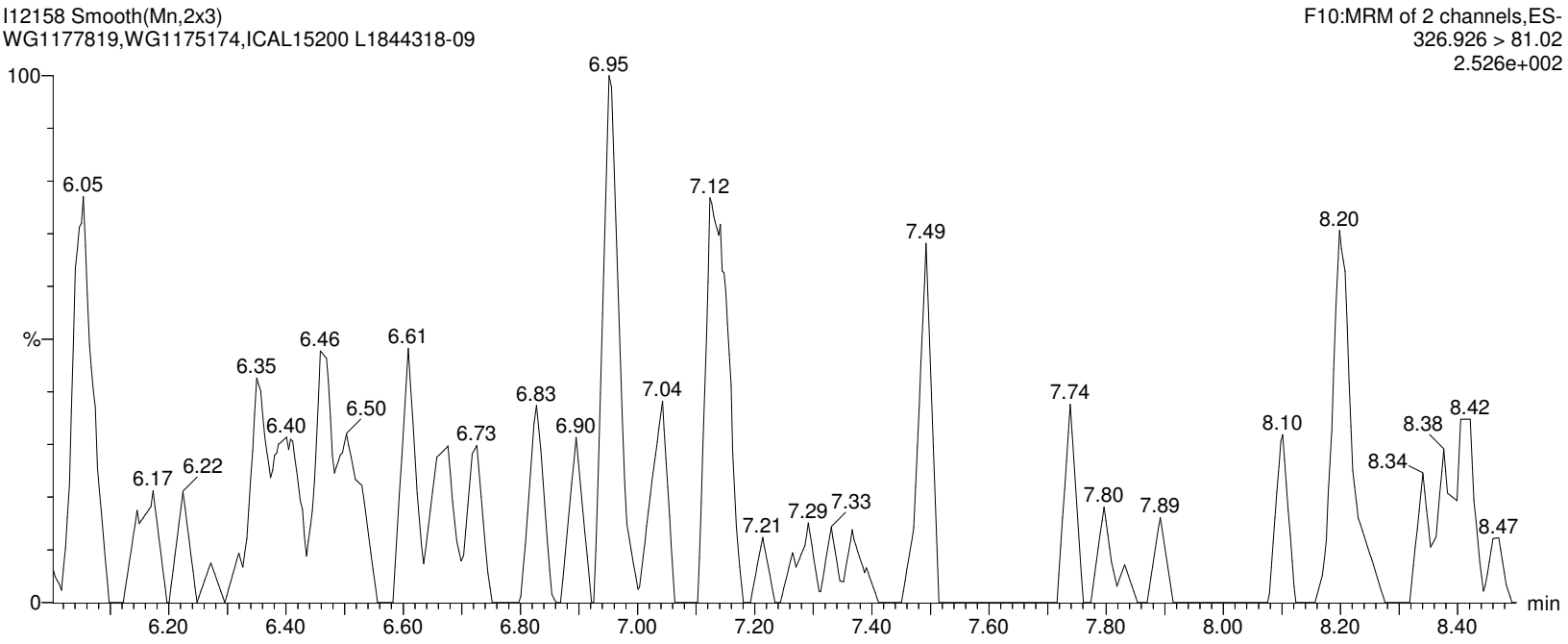
4:2FTS





all concentration units in (ng/mL)

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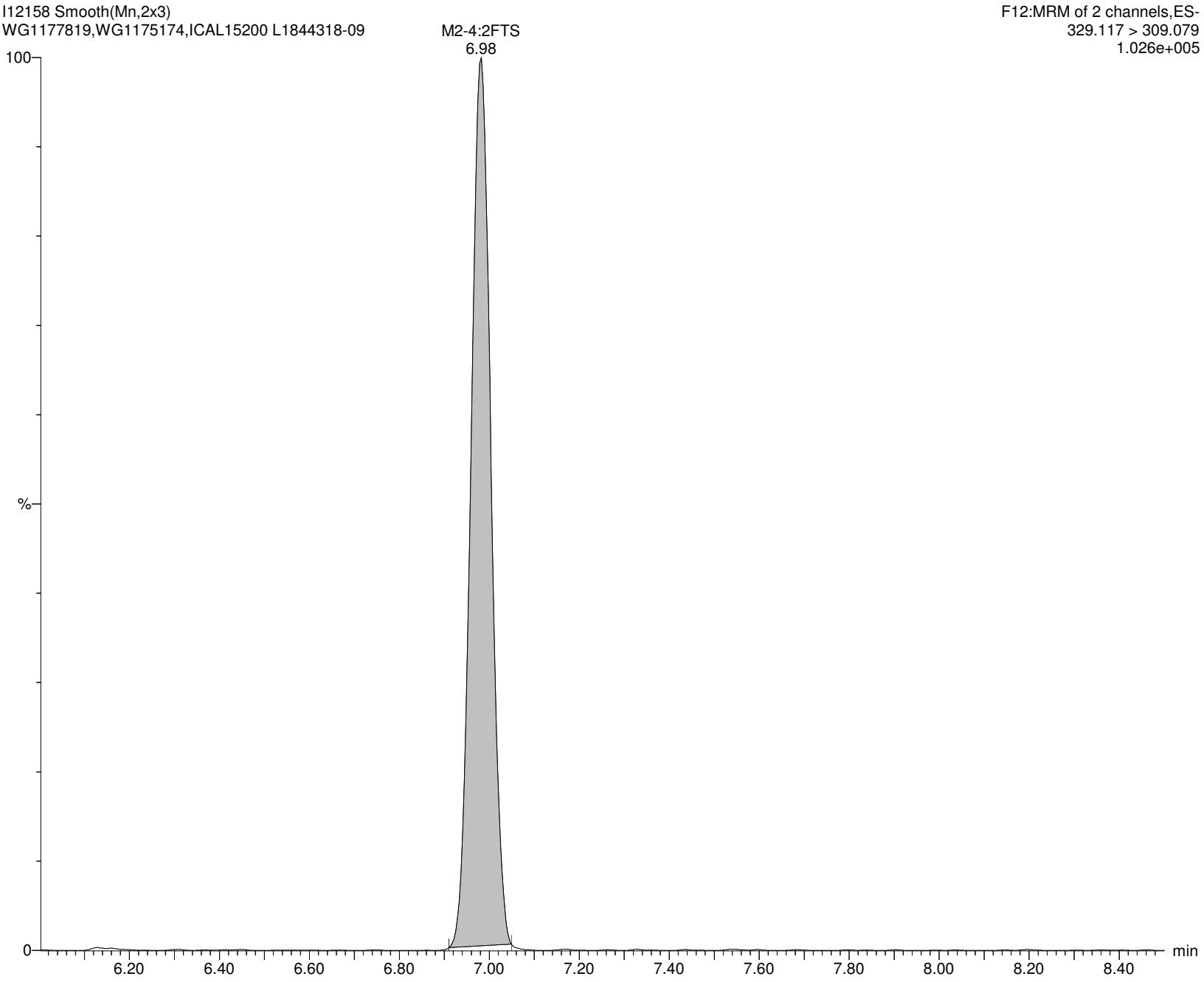
M2-4:2FTS



all concentration units in (ng/mL)

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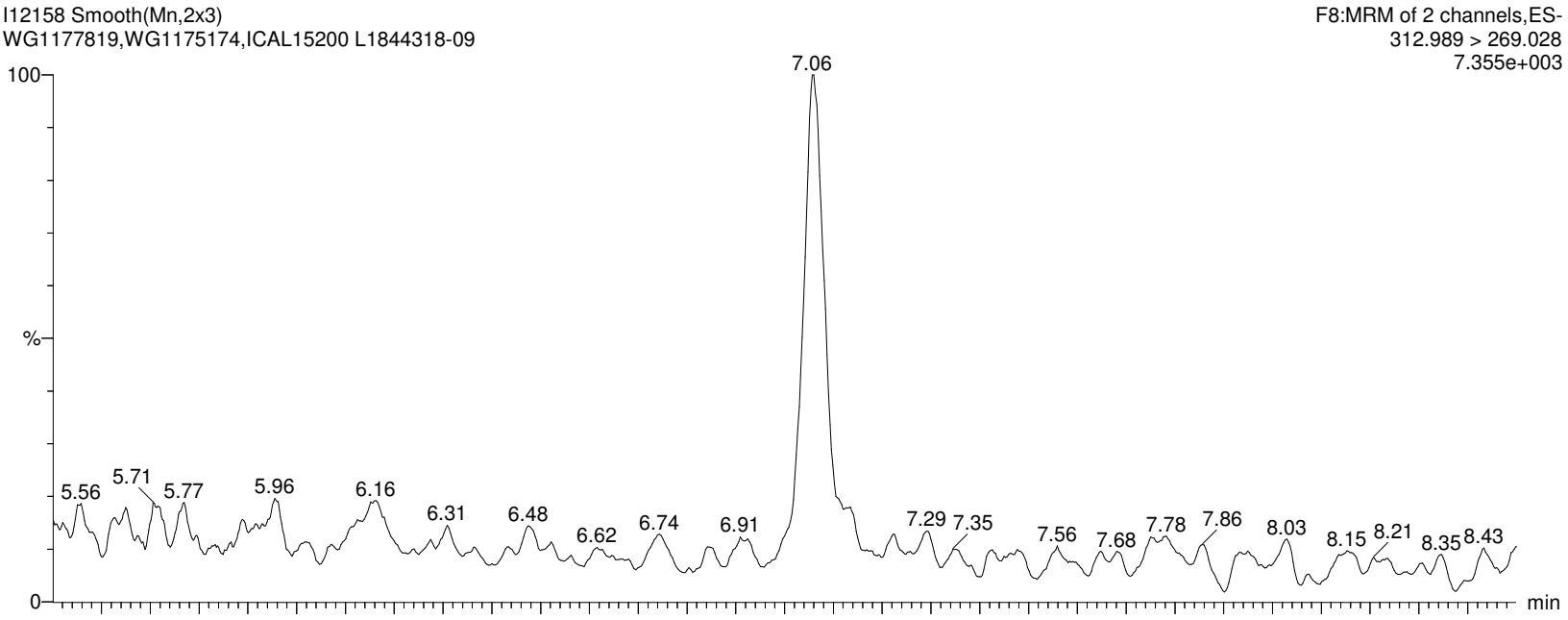

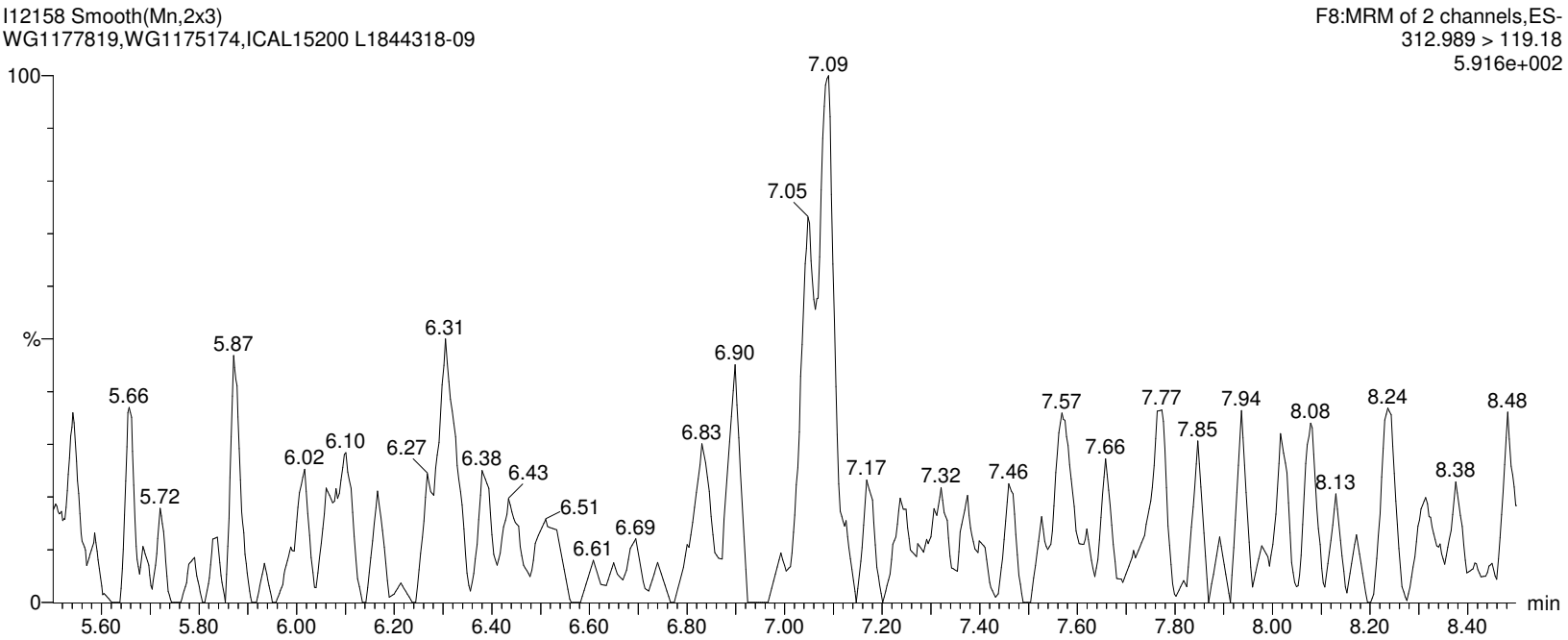

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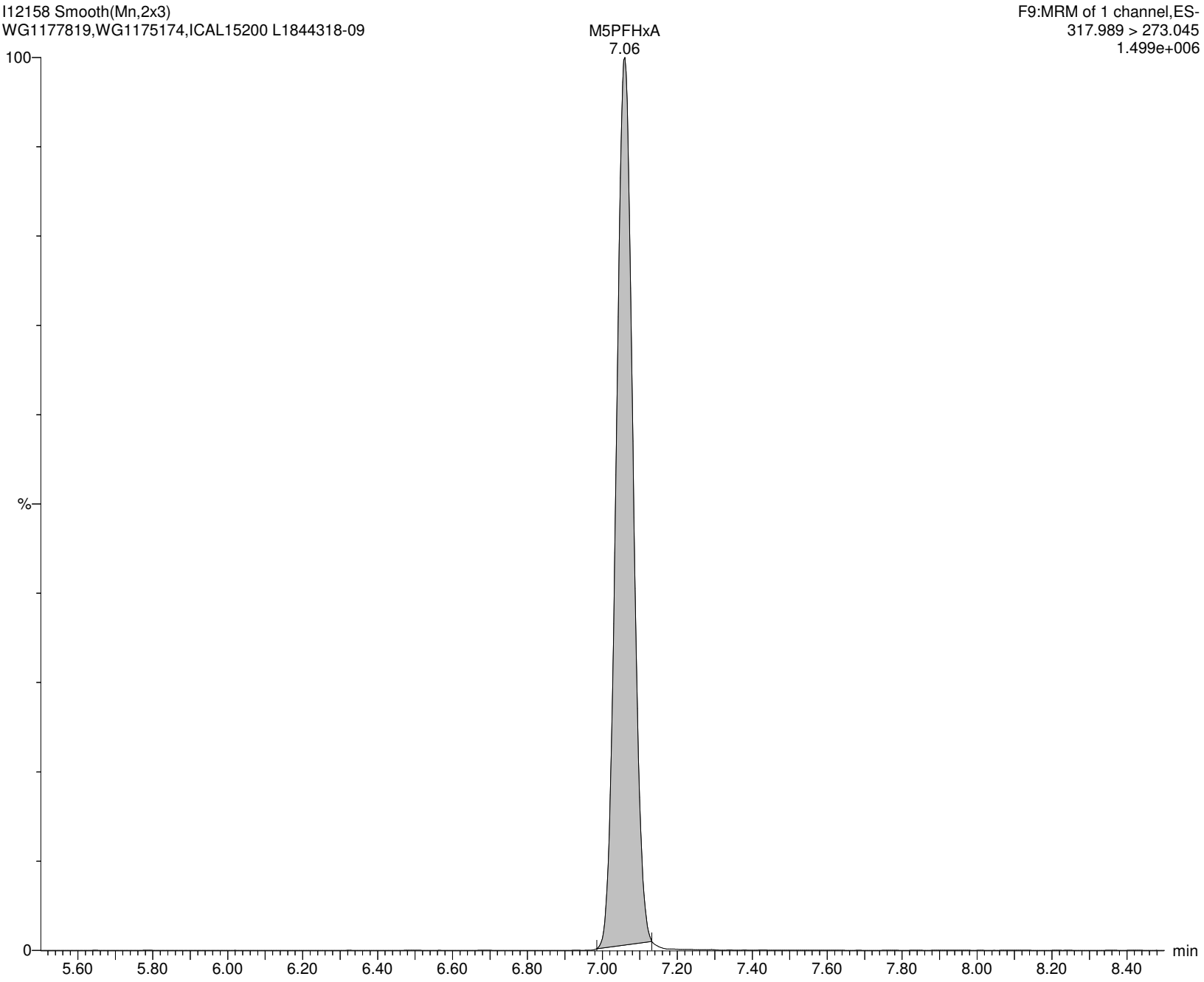

all concentration units in (ng/mL)

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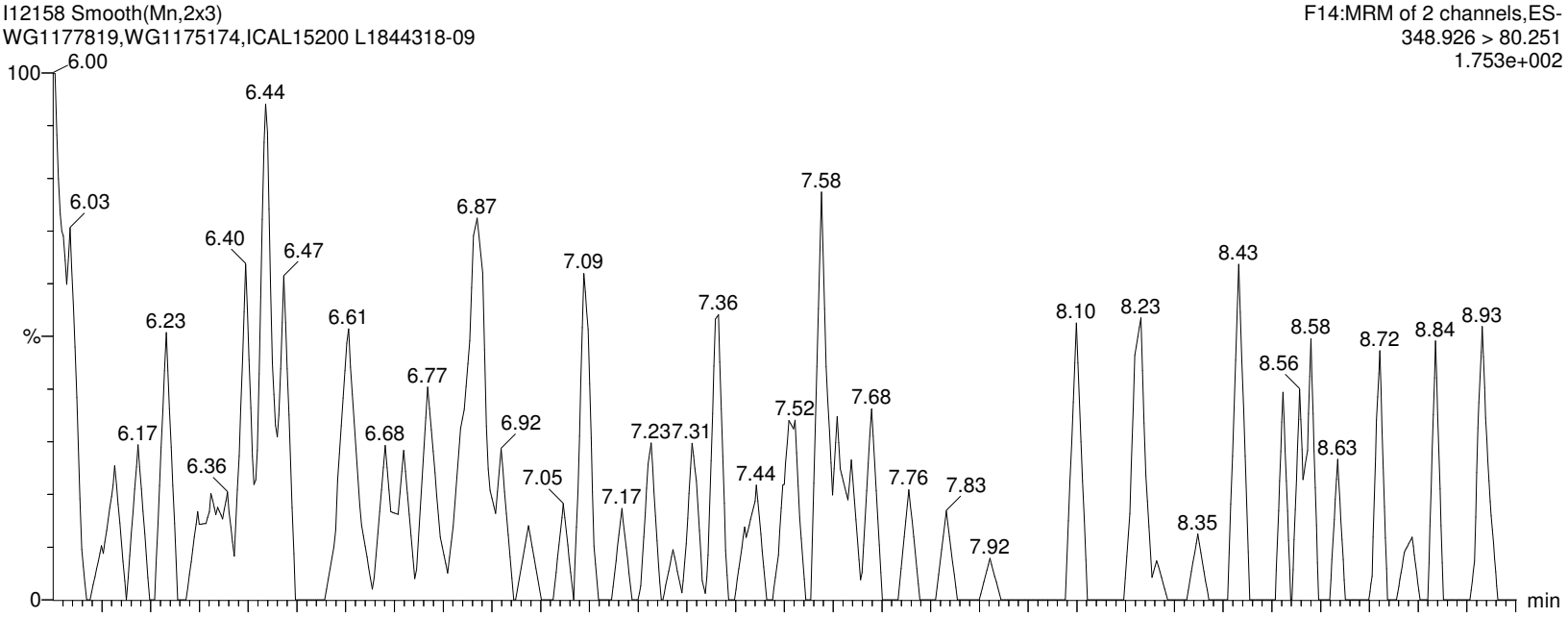

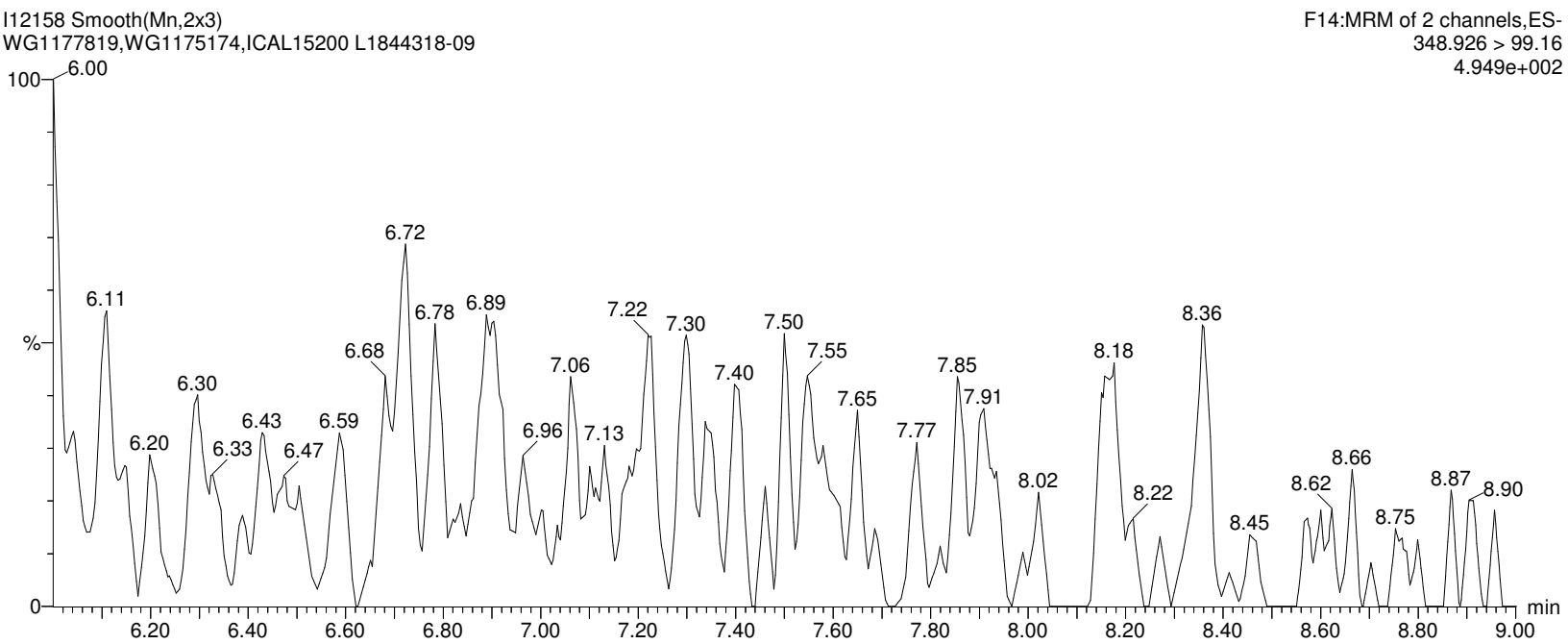

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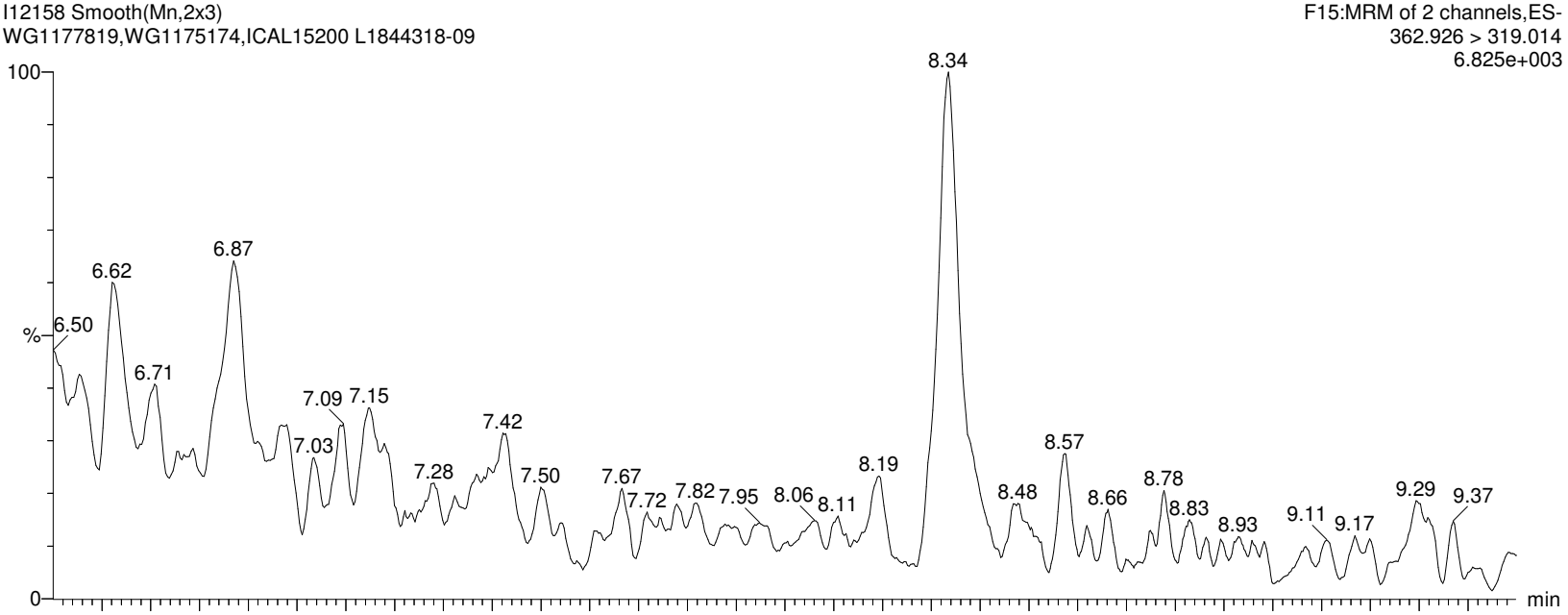

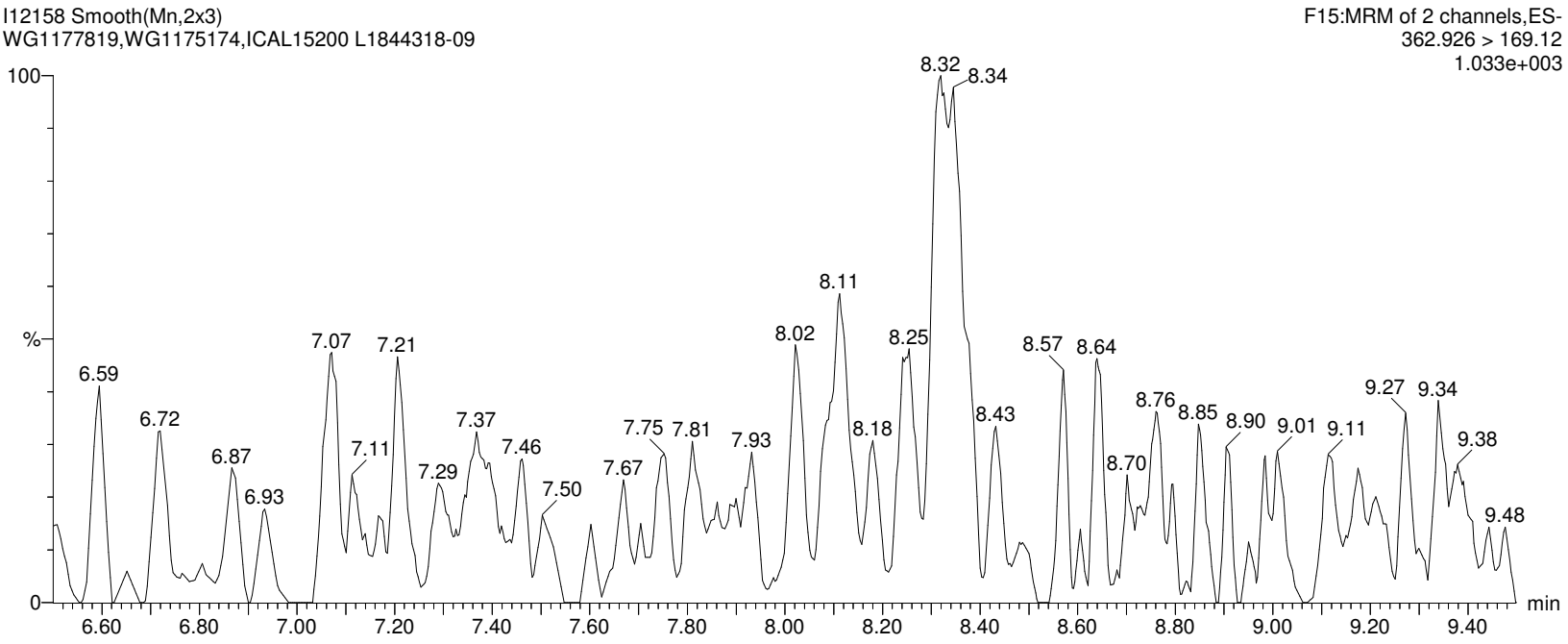

all concentration units in (ng/mL)

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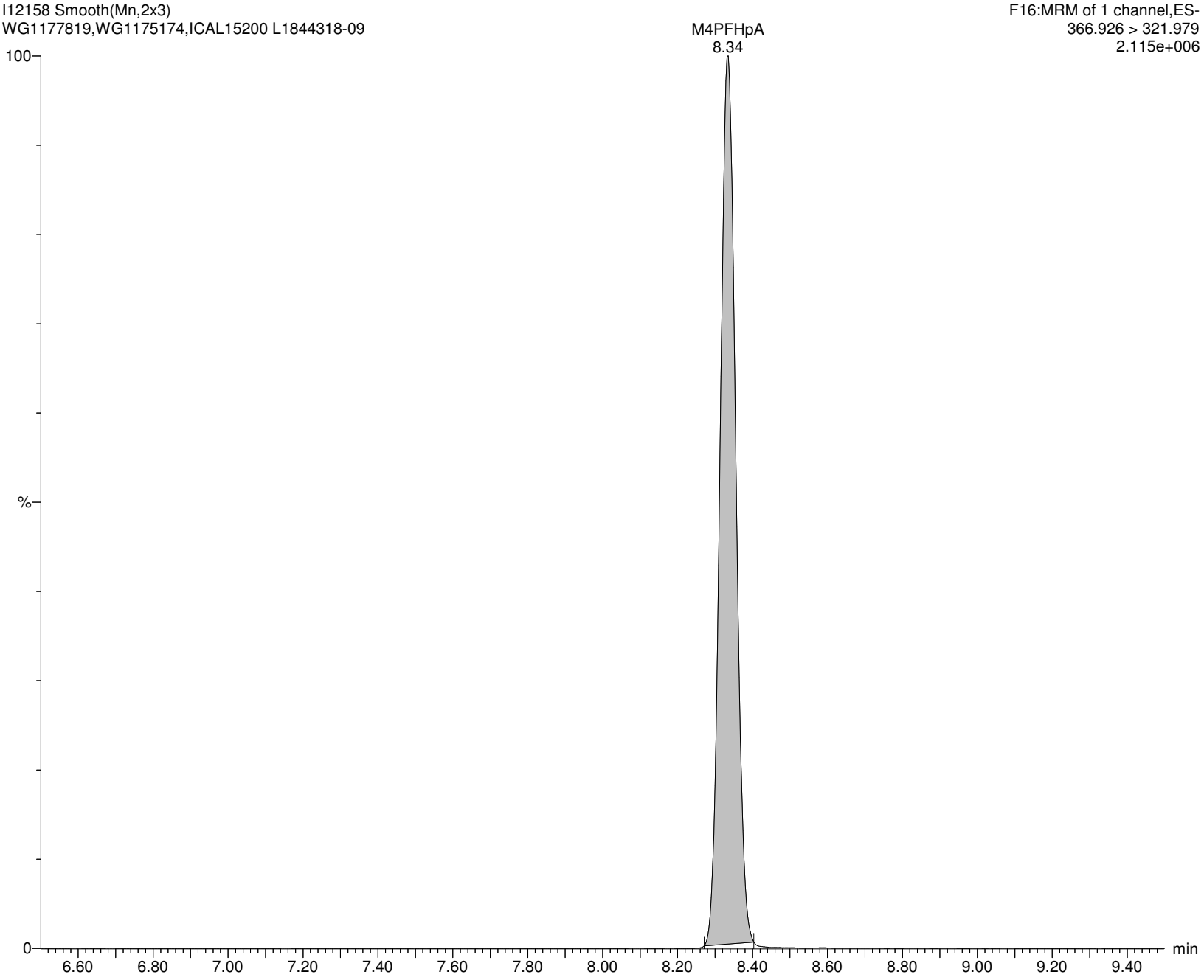

all concentration units in (ng/mL)

Alpha Analytical Inc.
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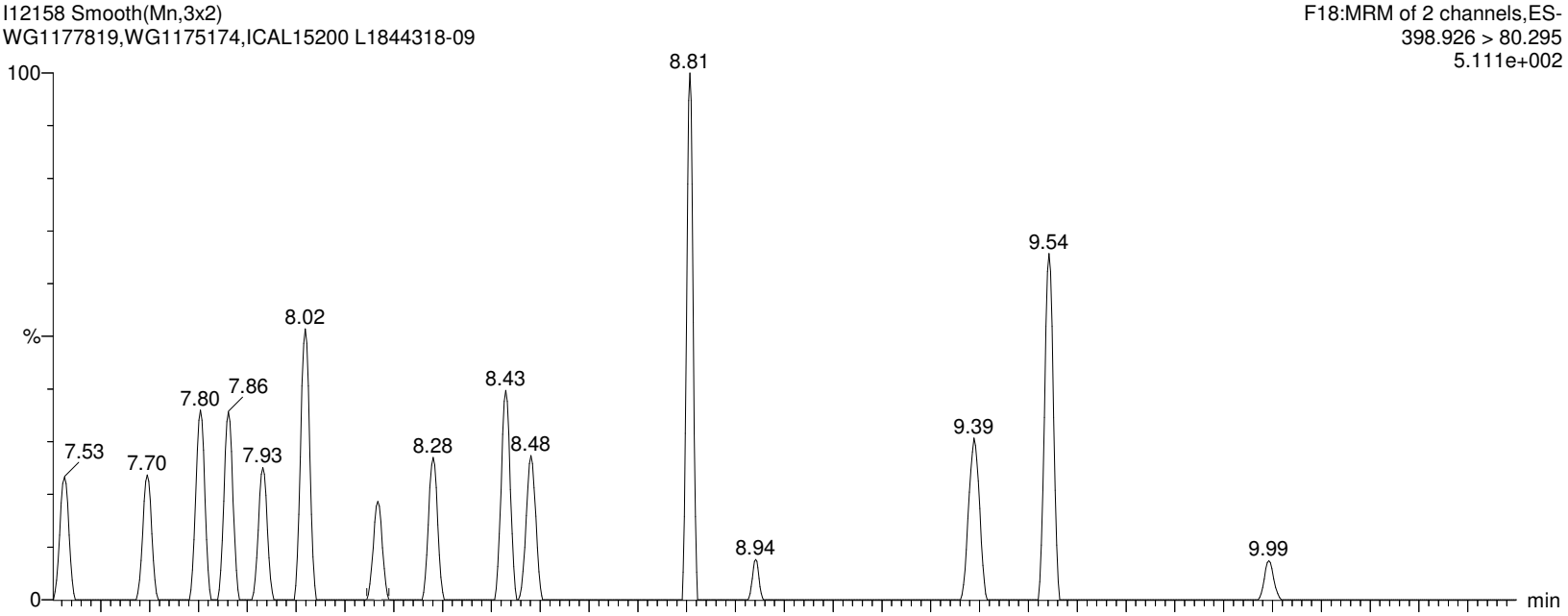

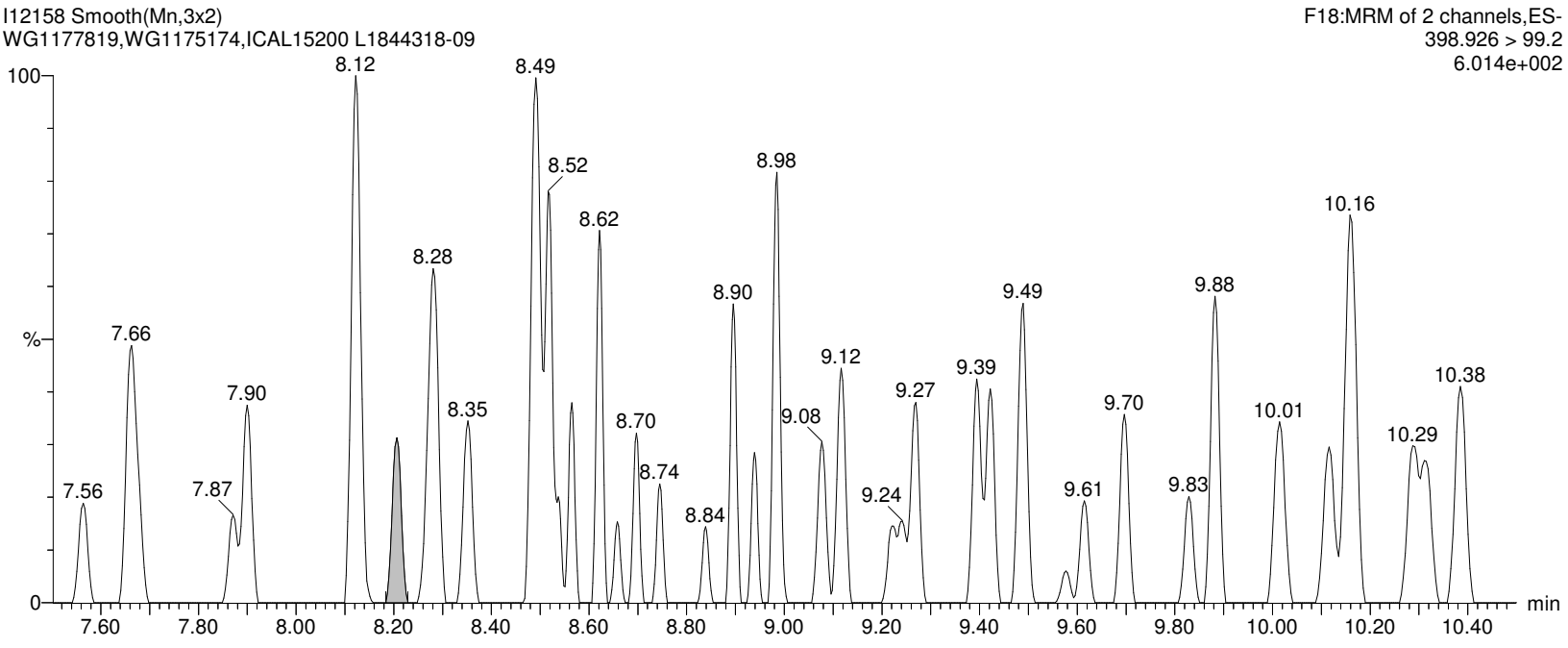

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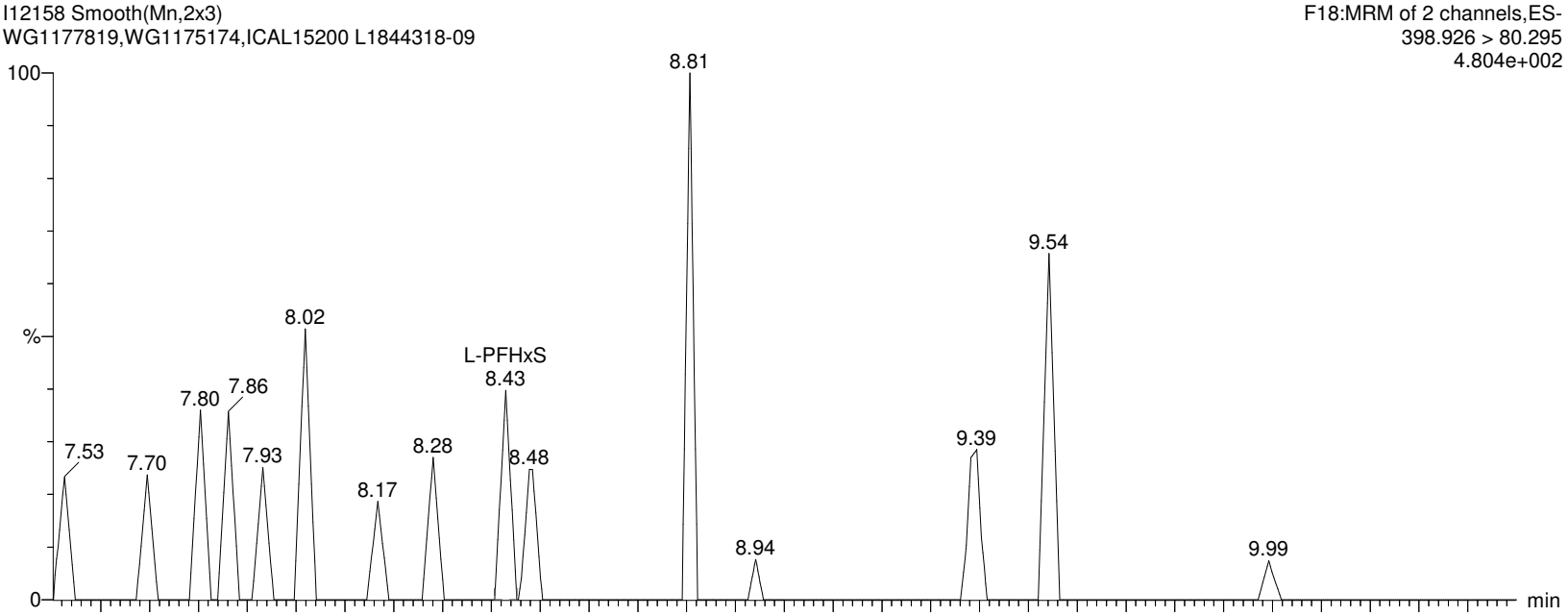
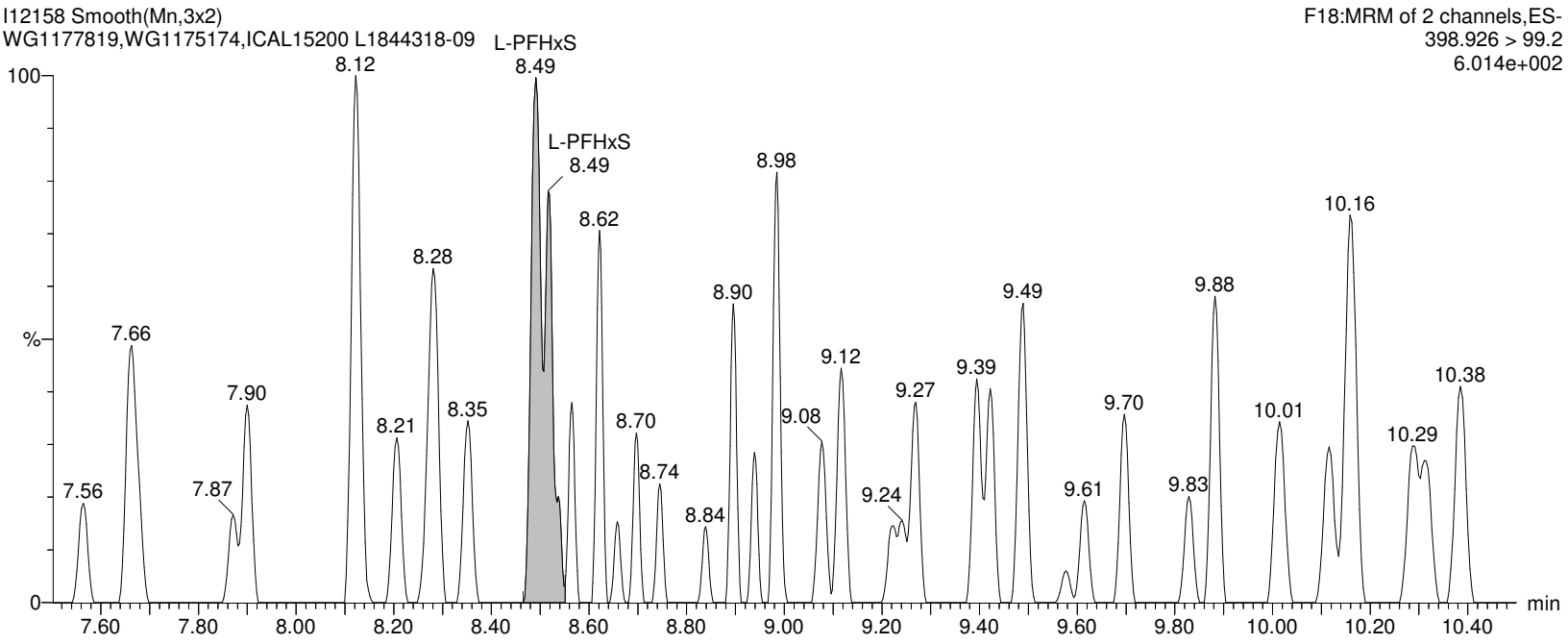
L-PFHxS





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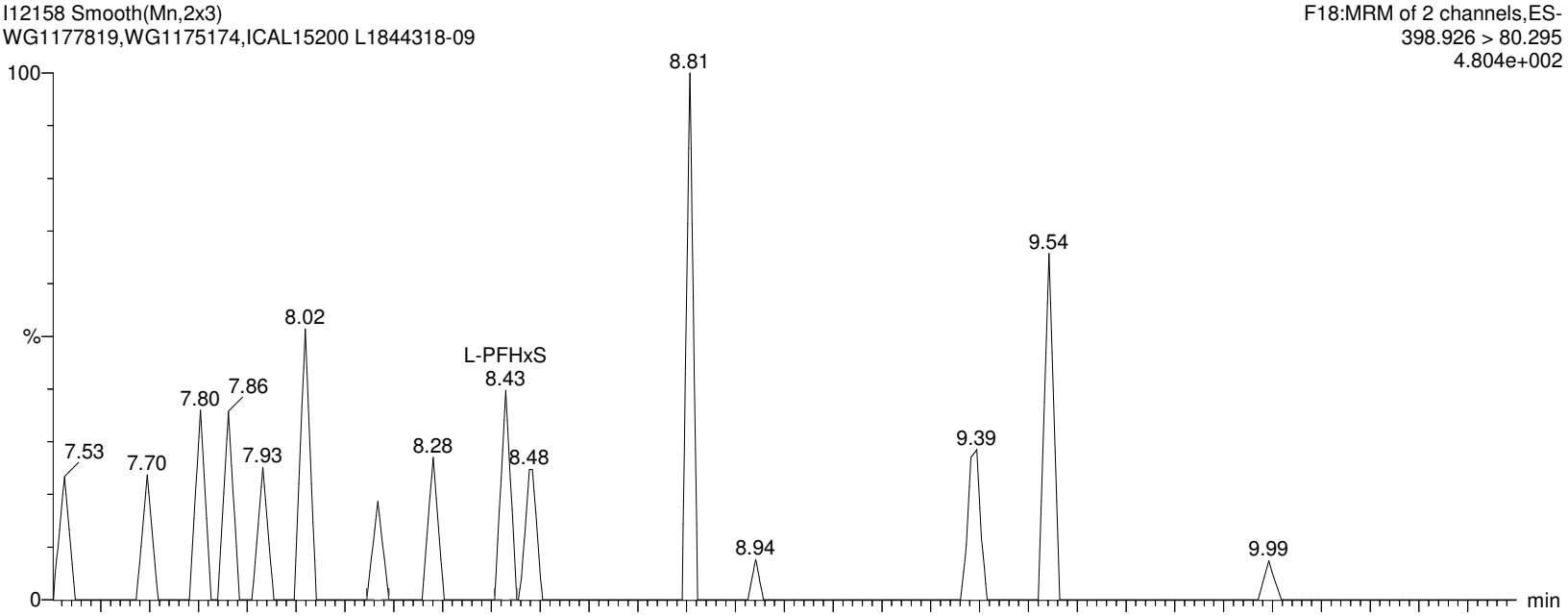

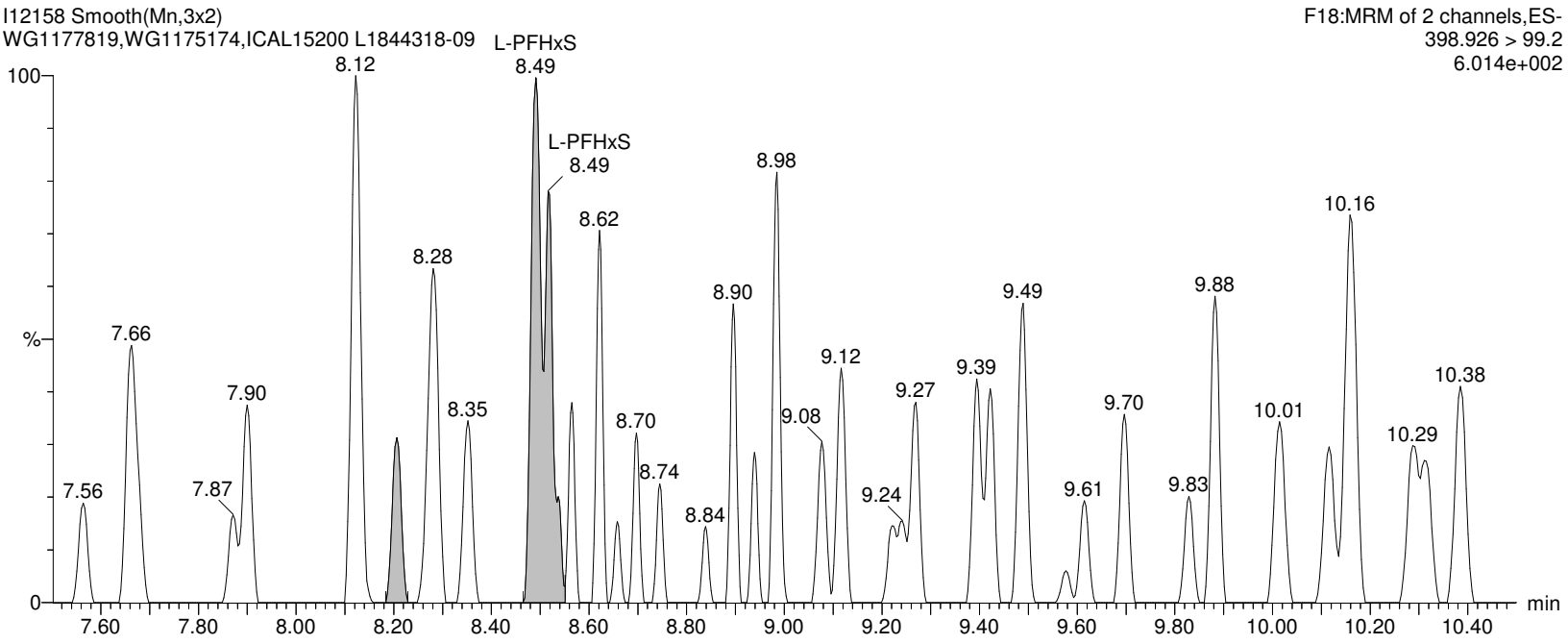

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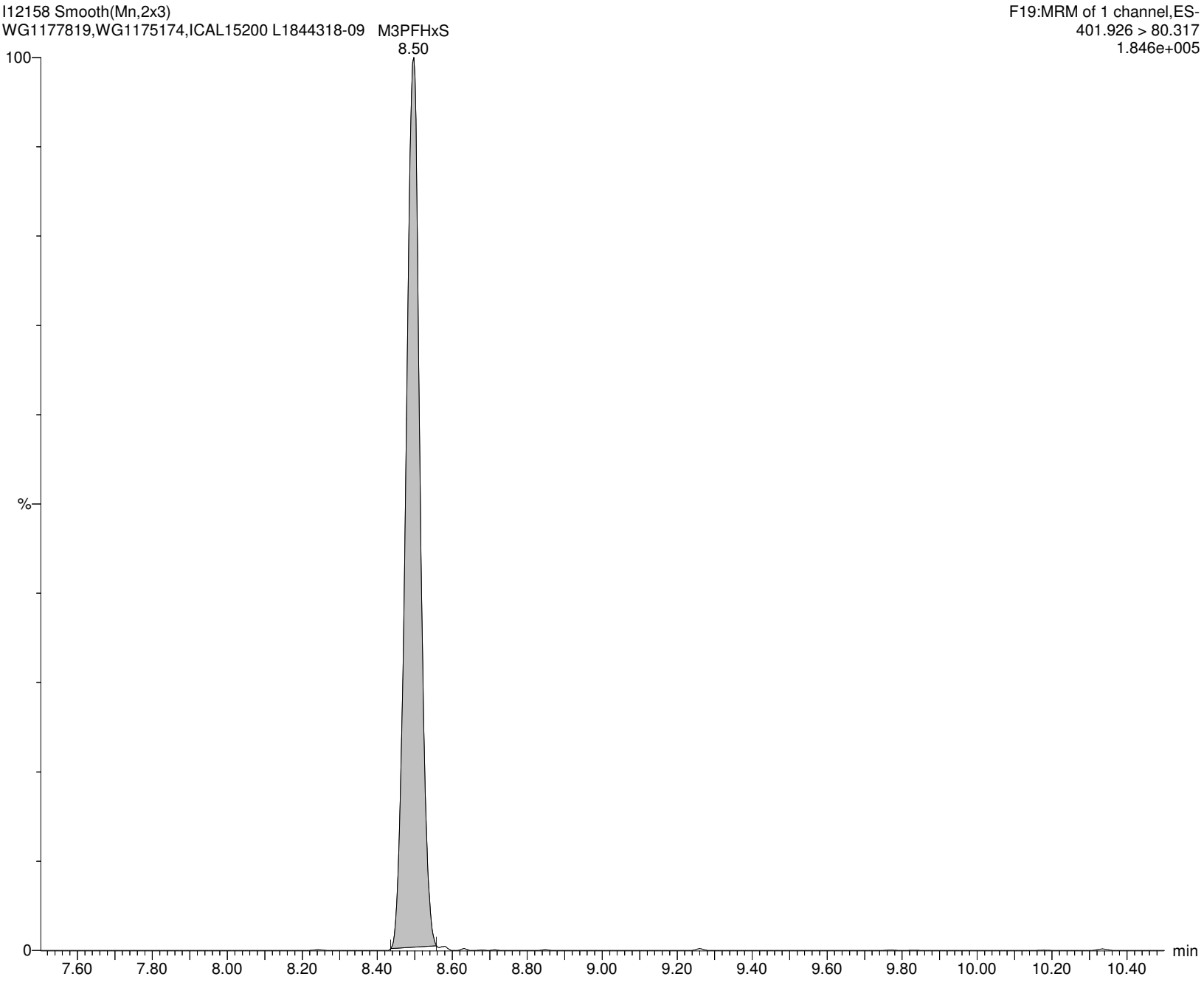

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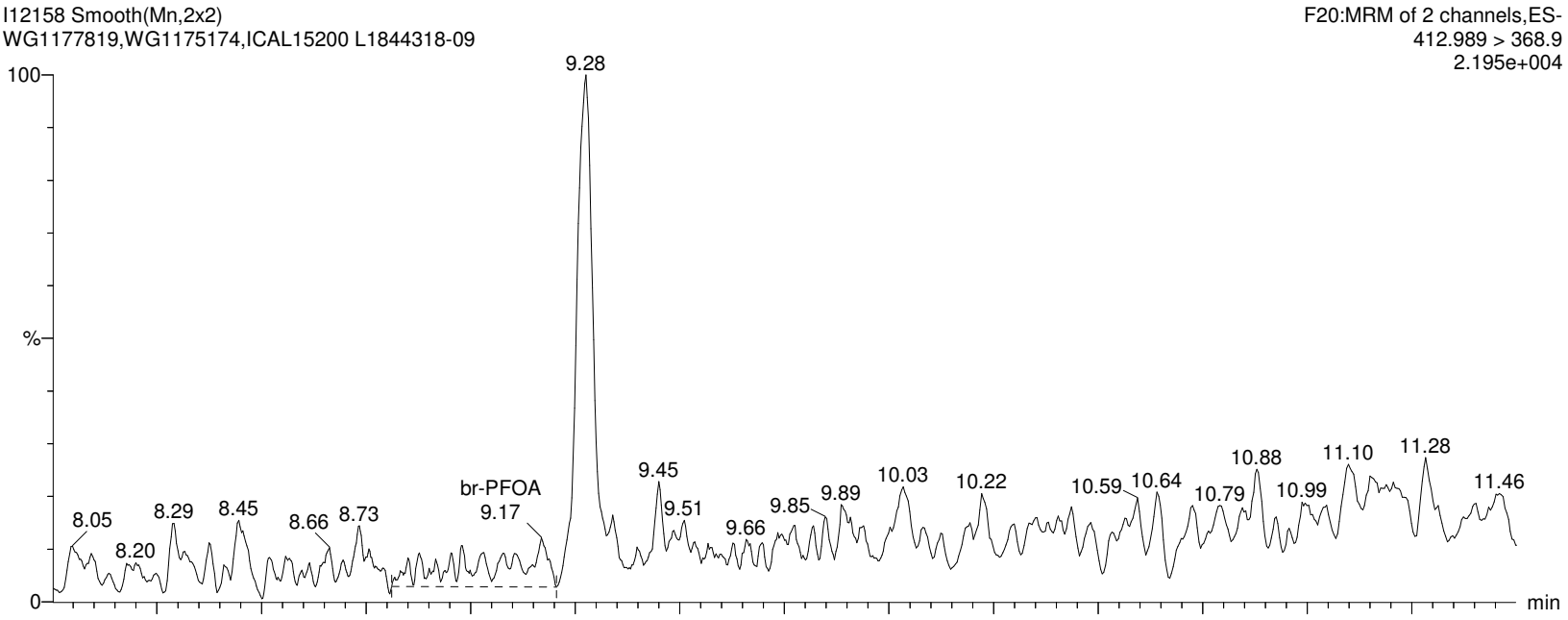

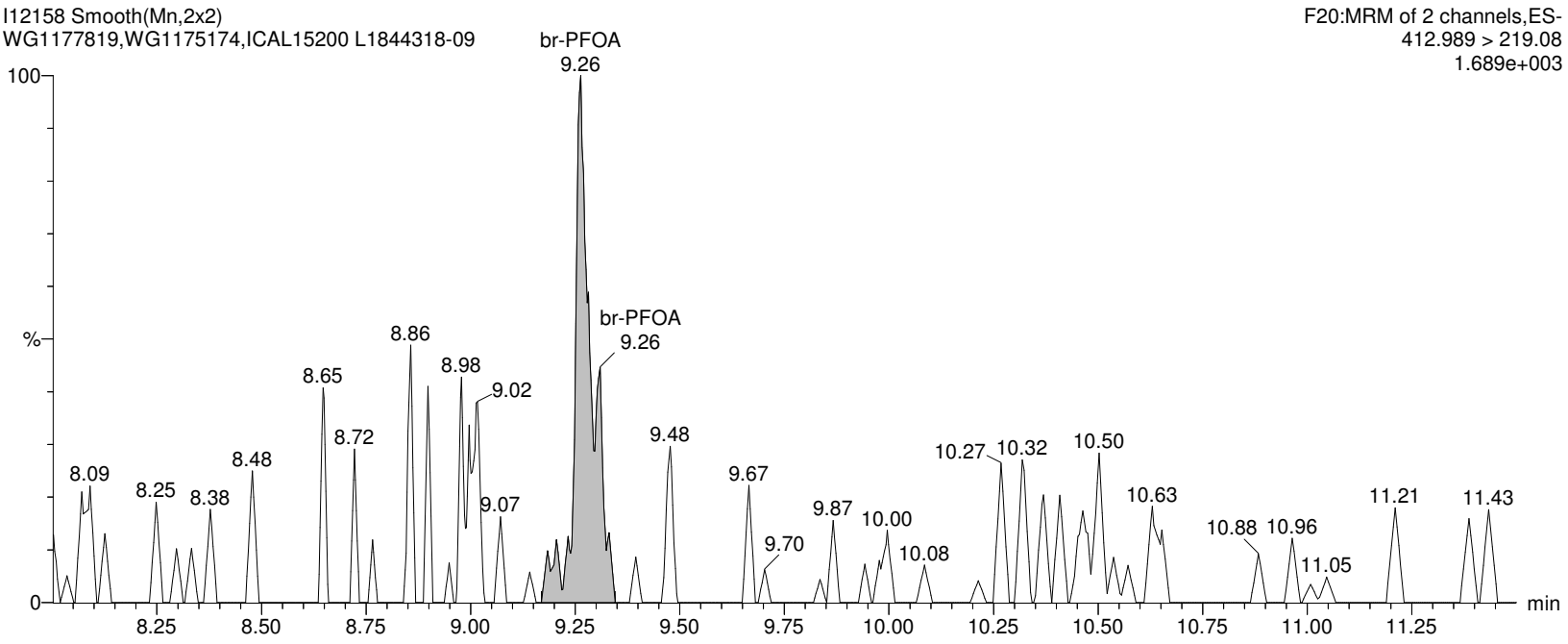

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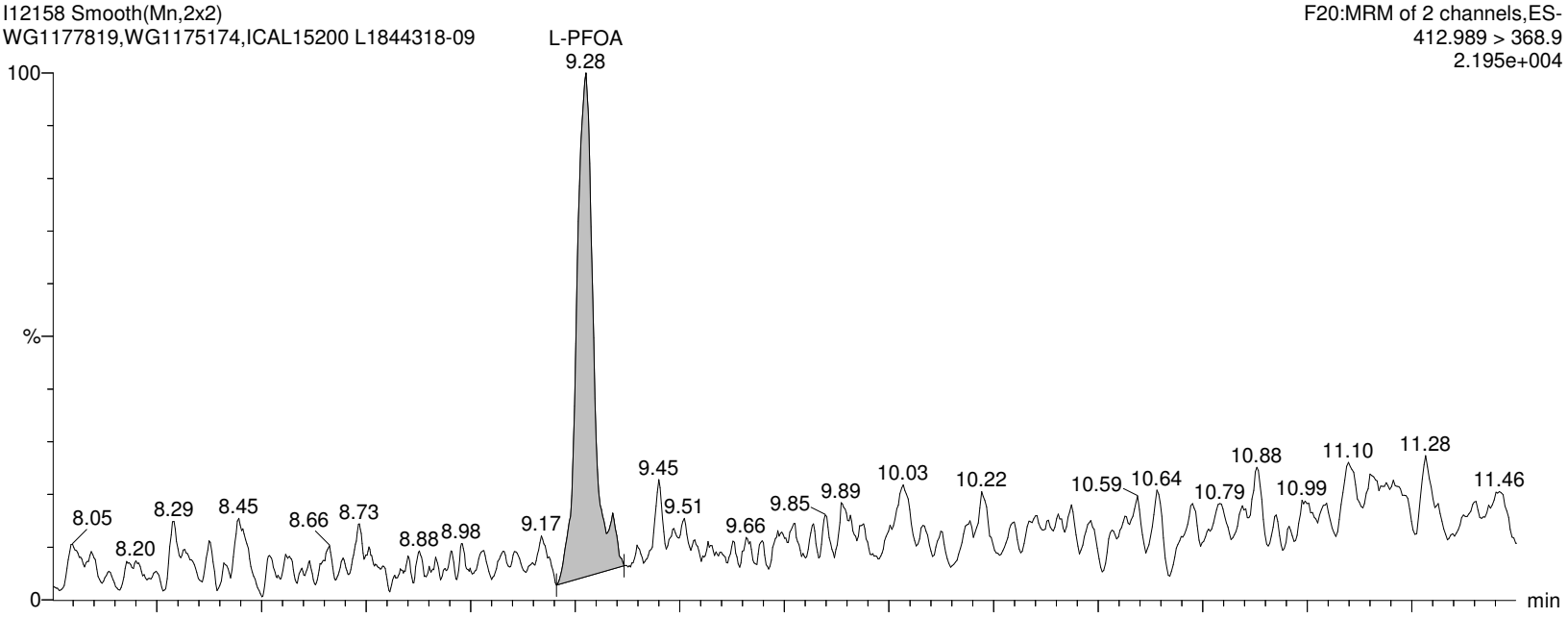

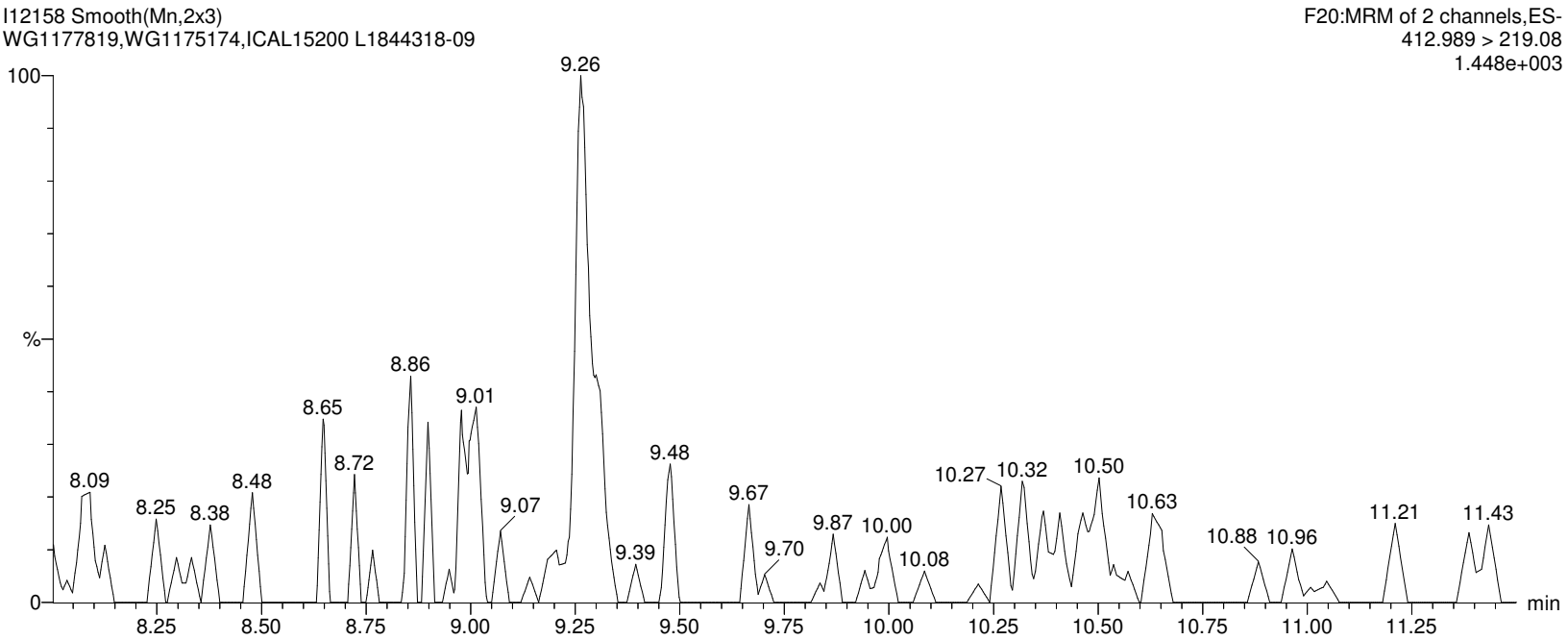

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12158
ID: L1844318-09
Date: 10-Nov-2018
Time: 08:31:16
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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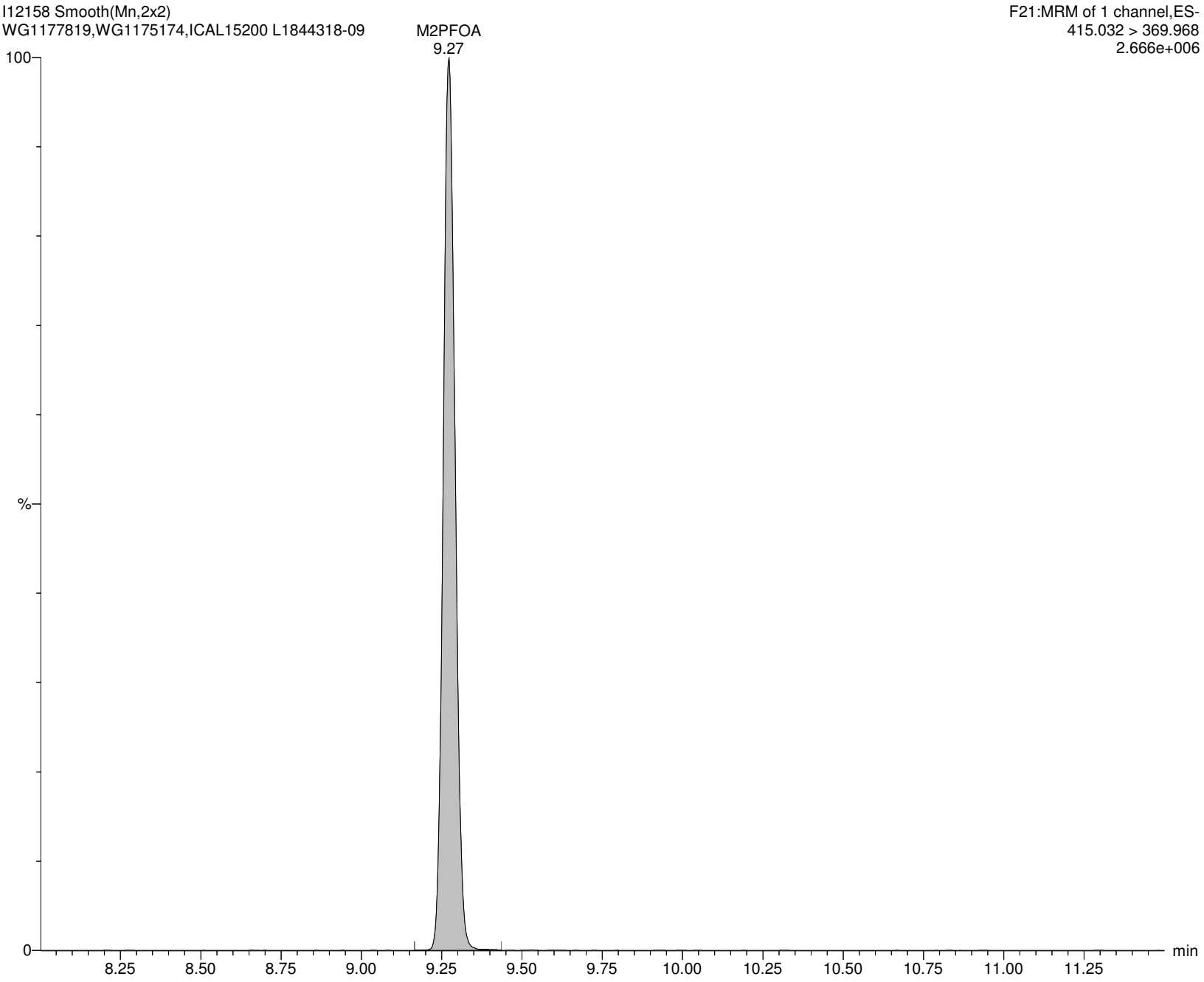

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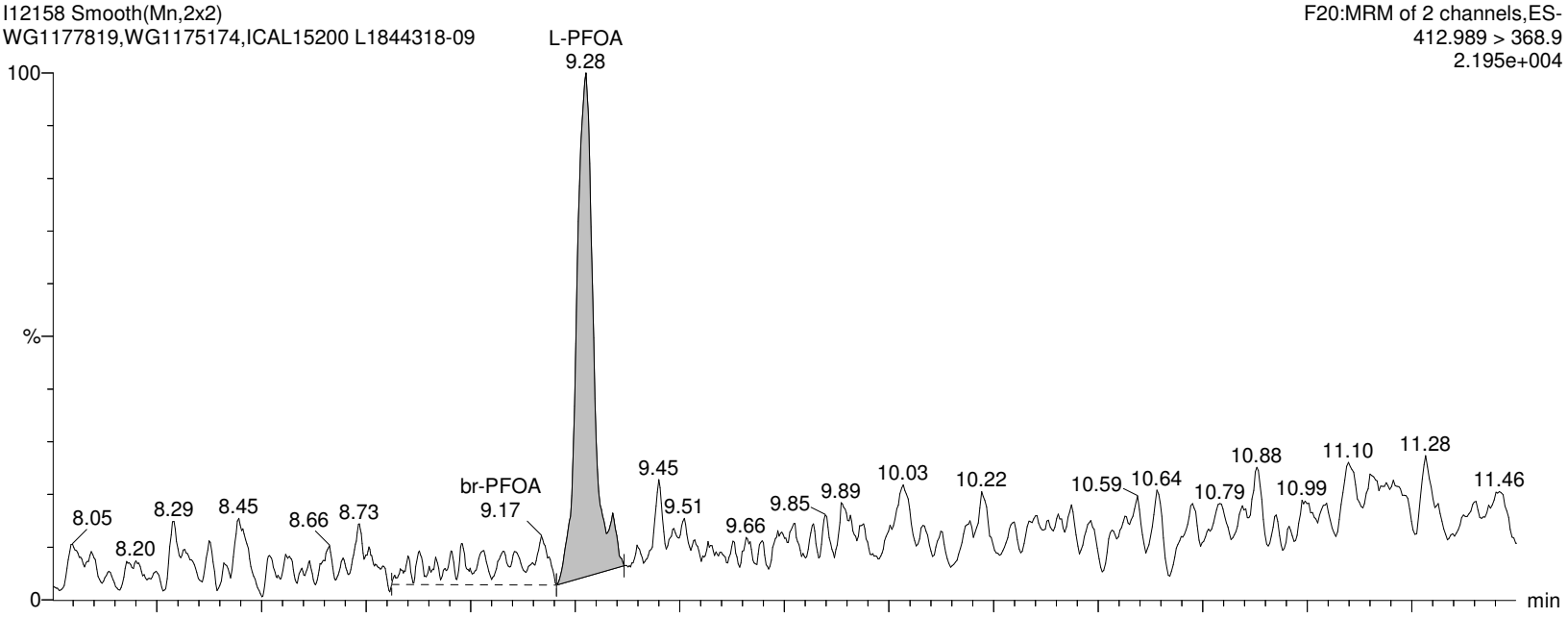

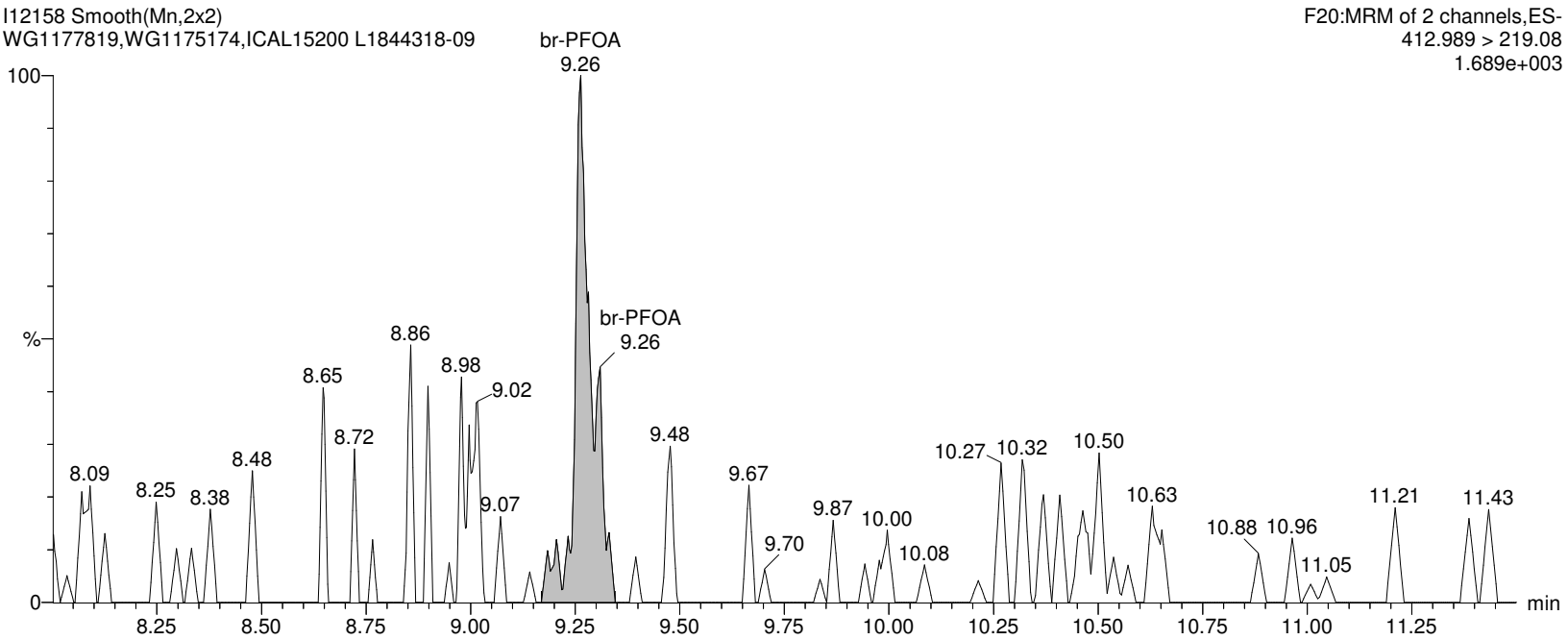

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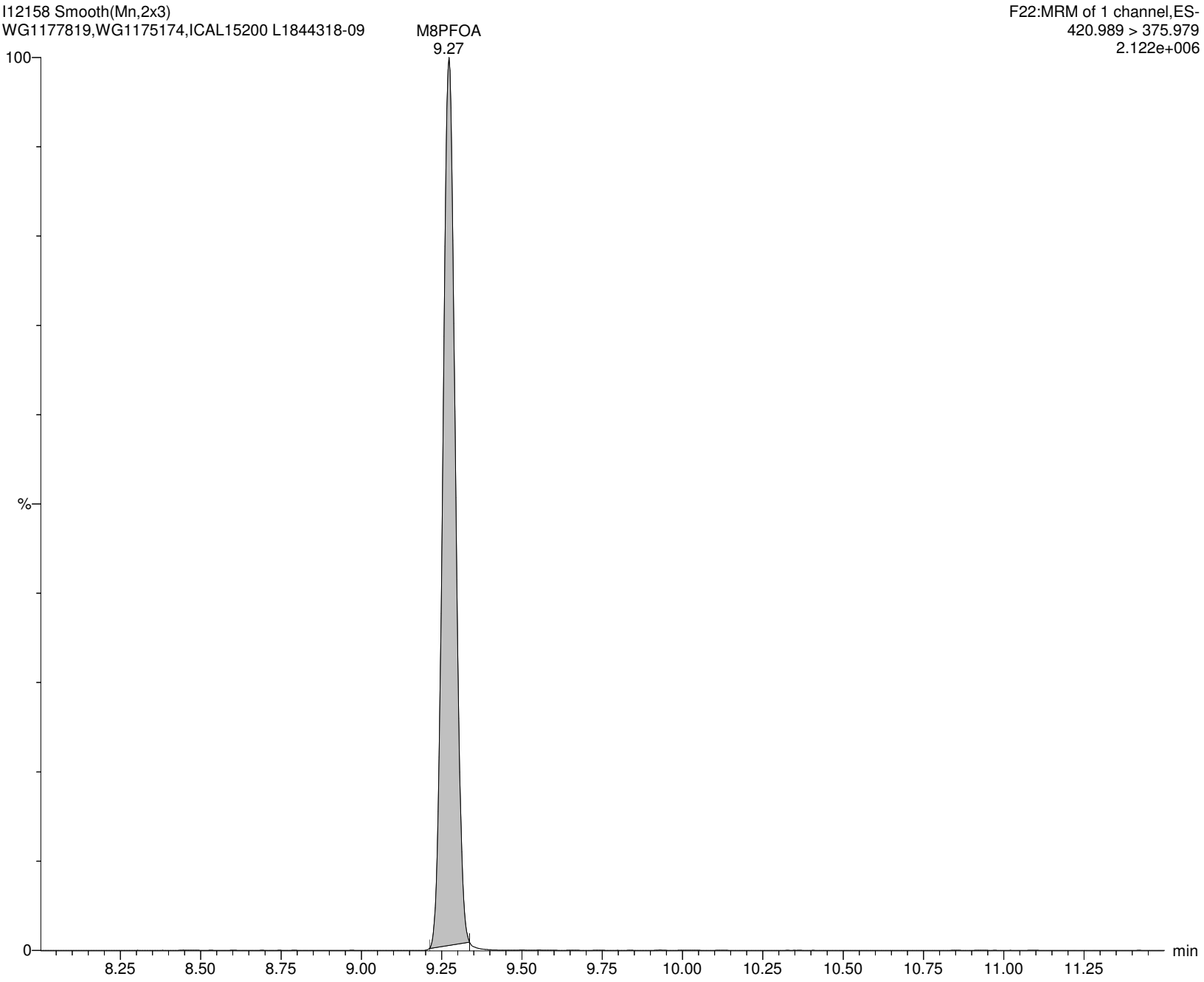

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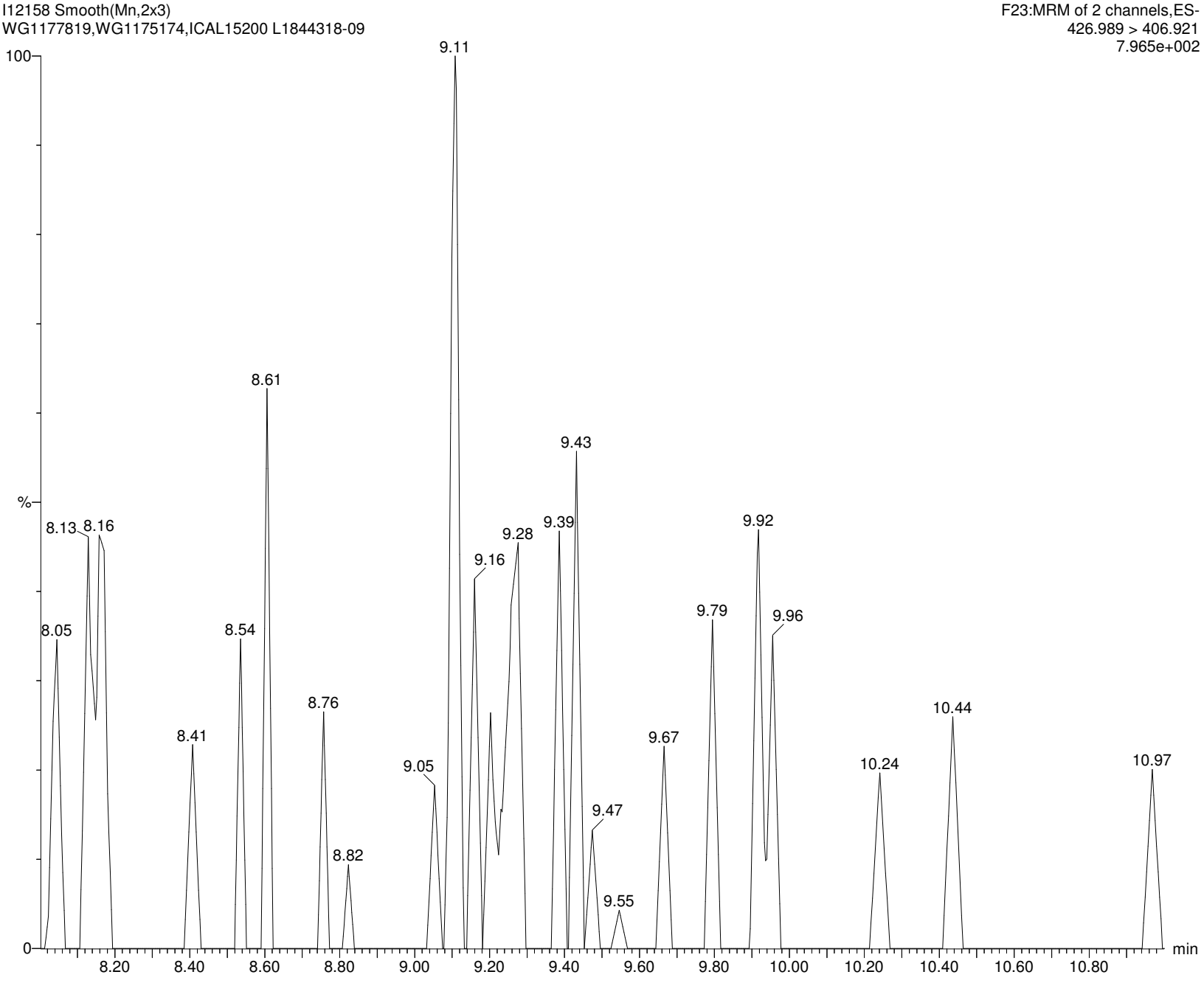
6:2FTS



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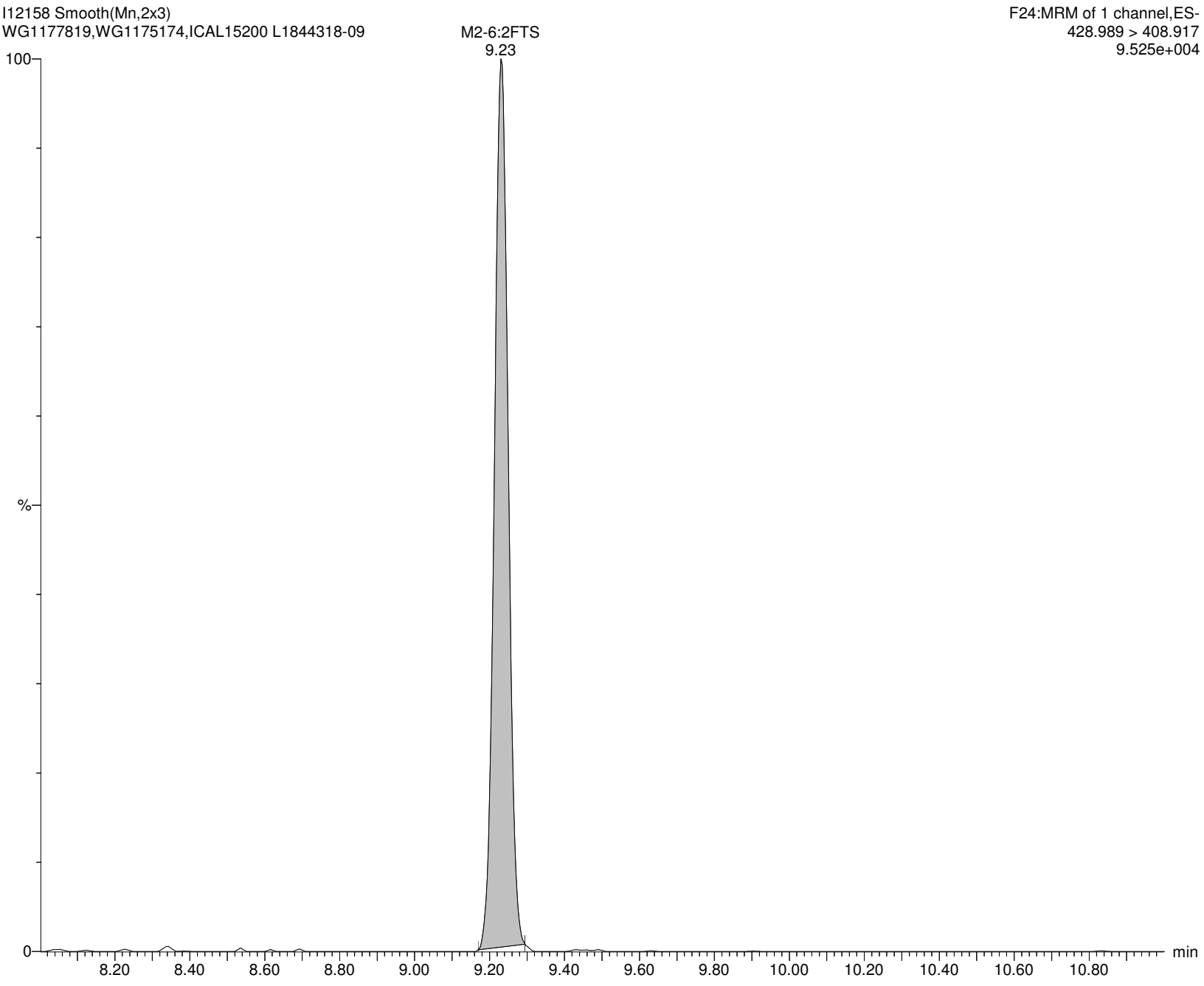

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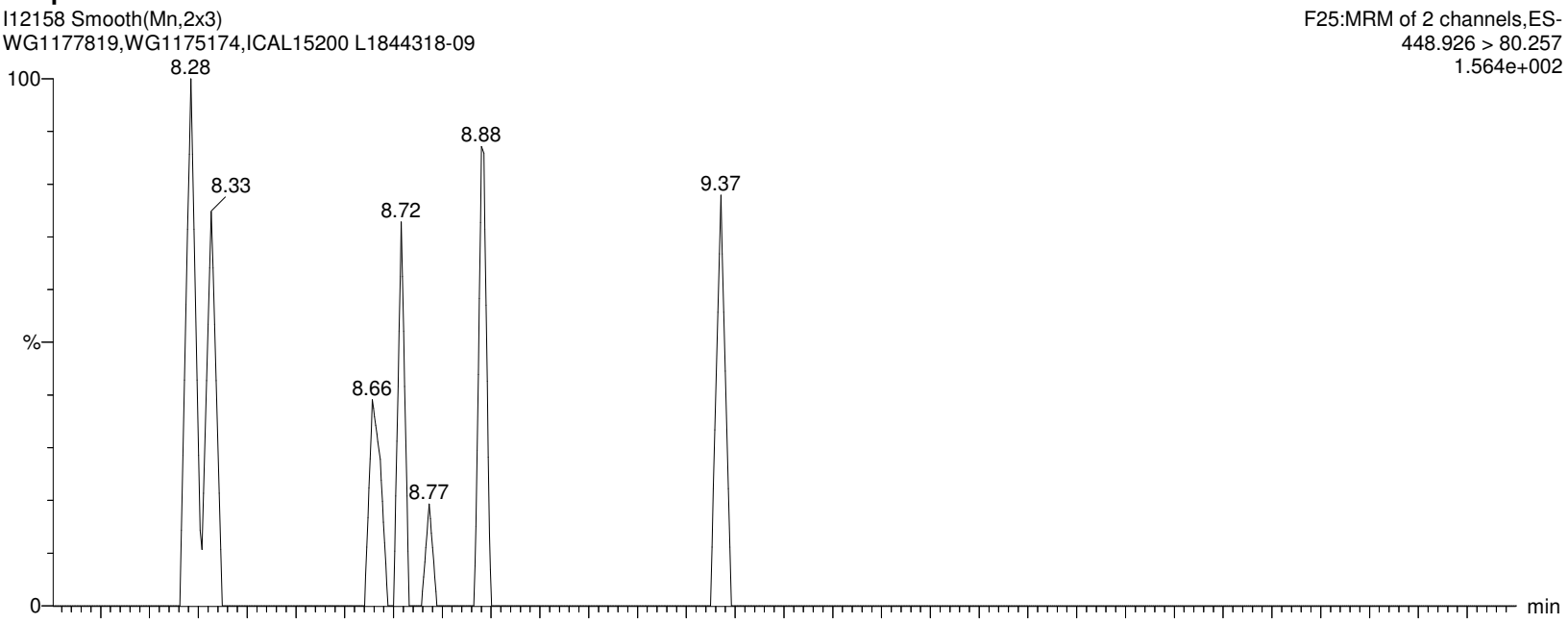

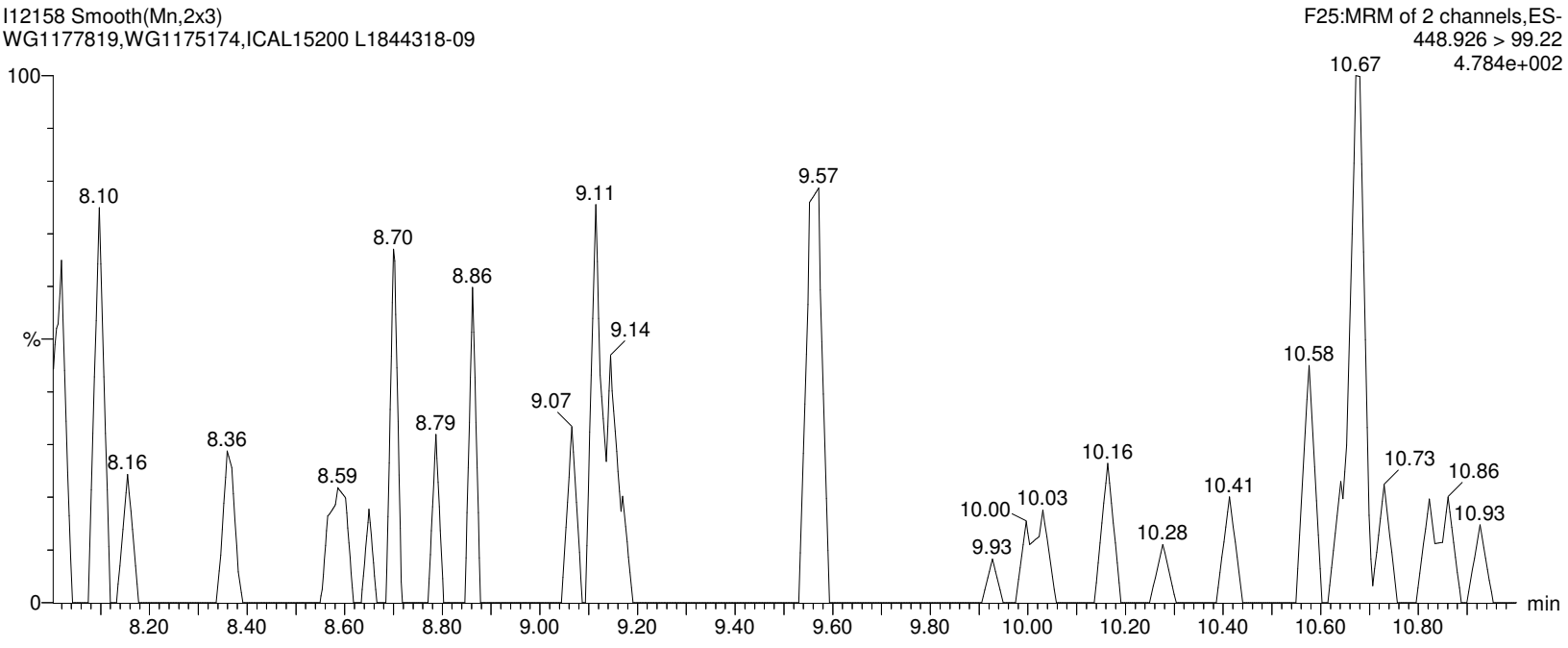

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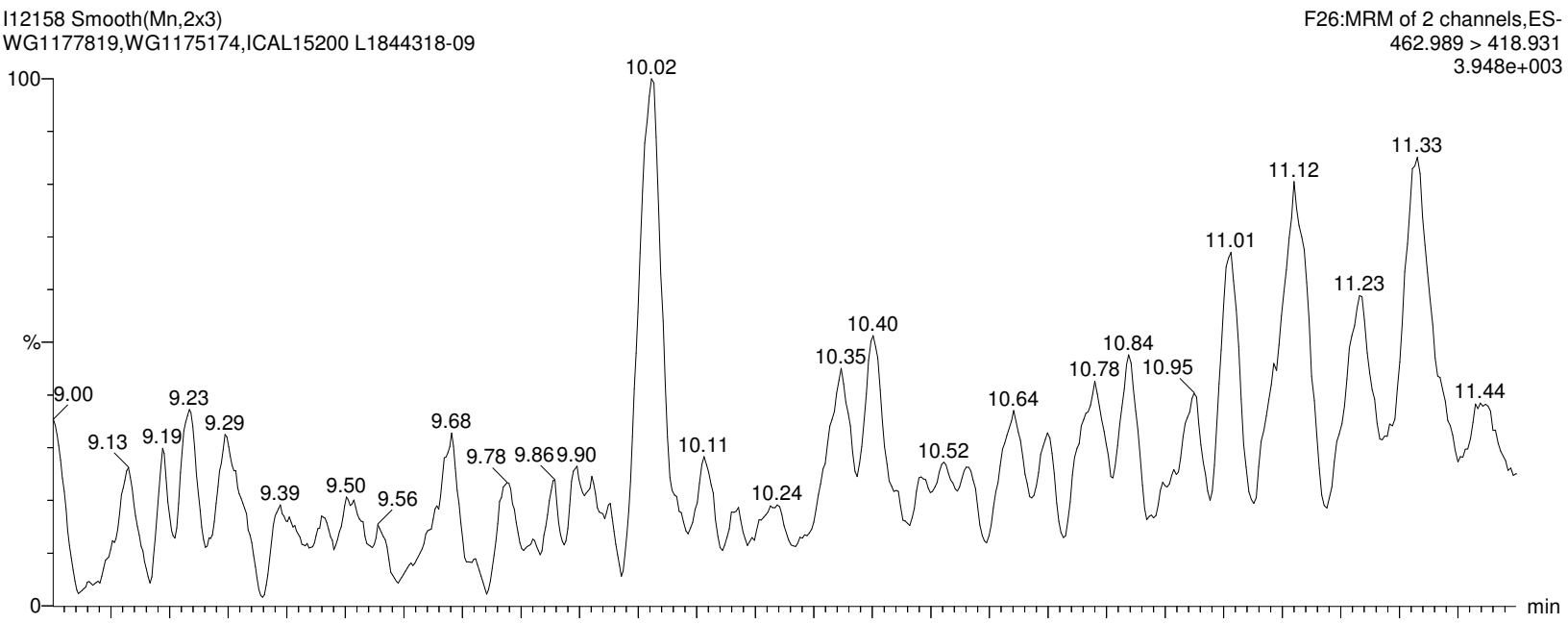

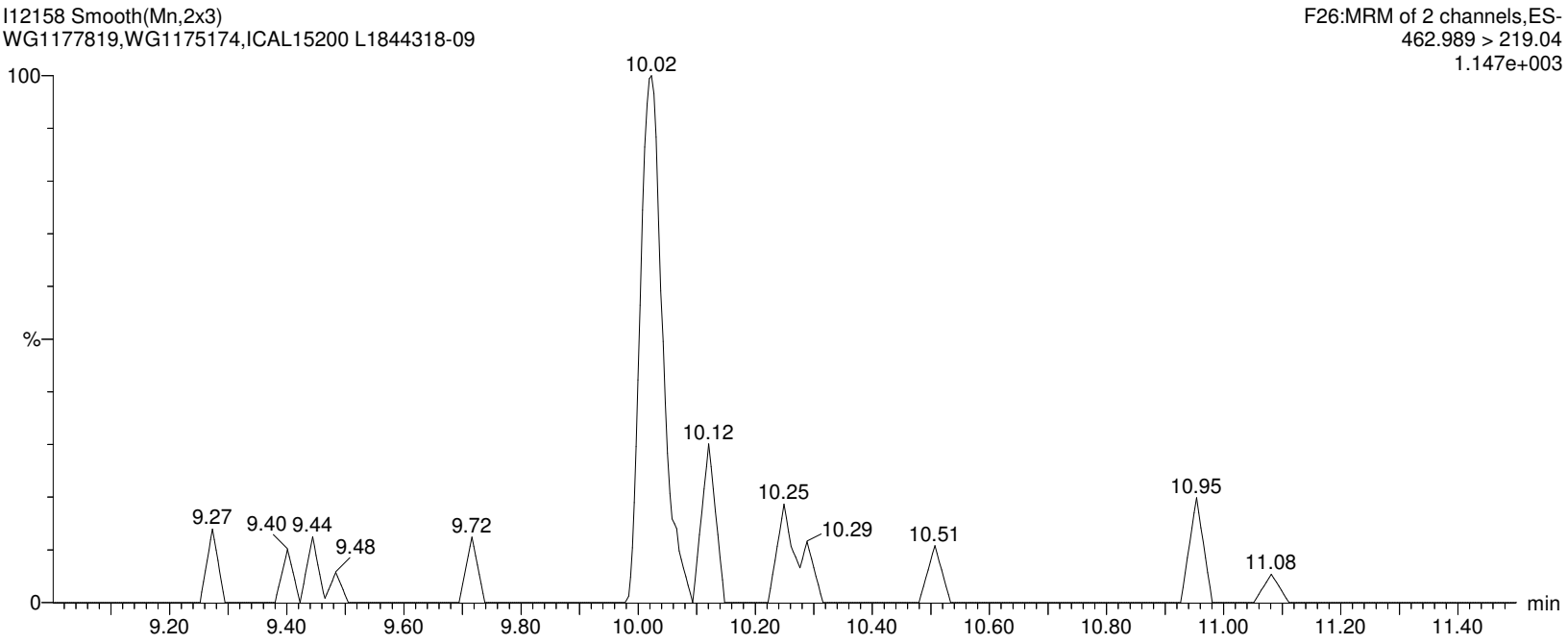

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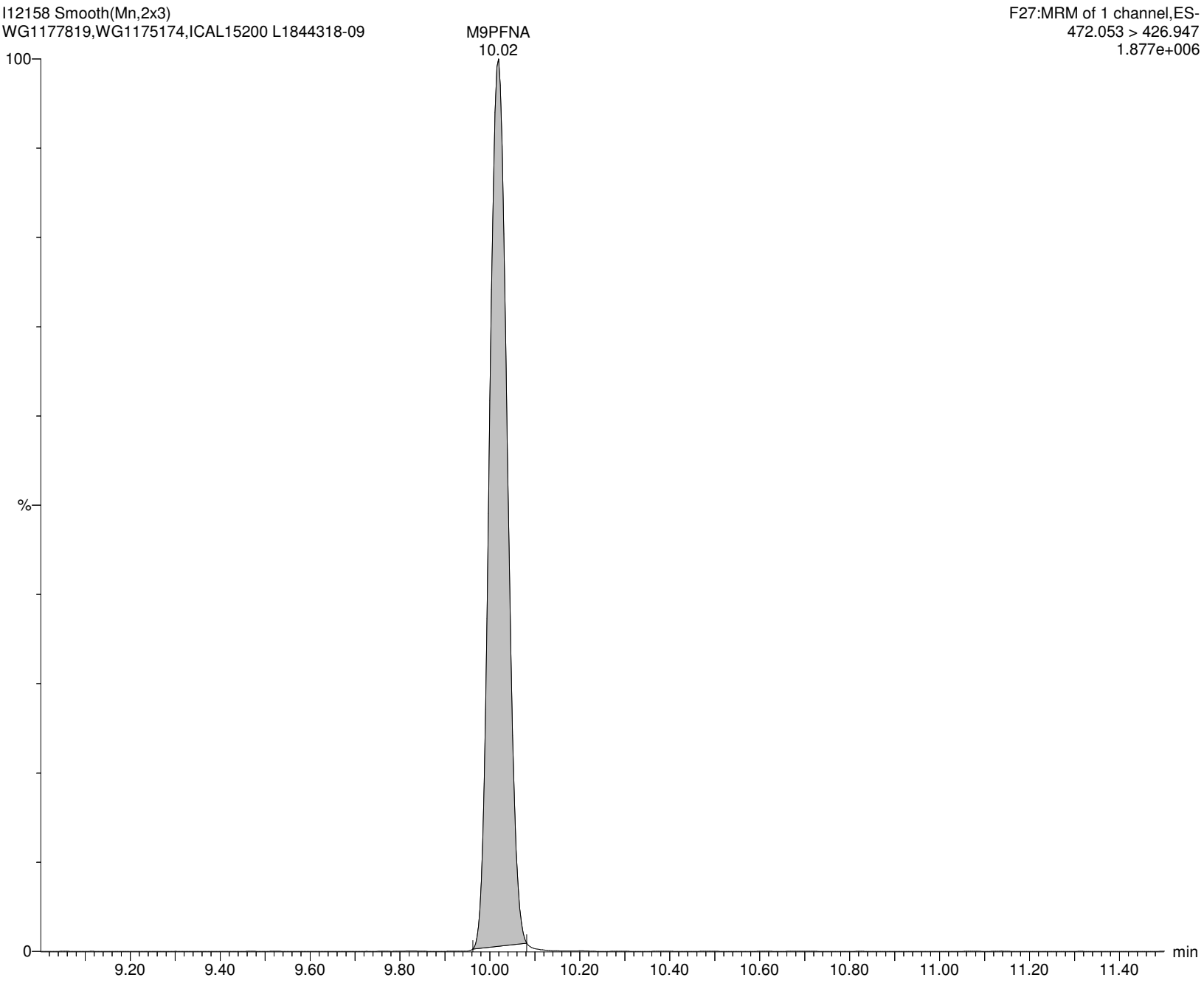

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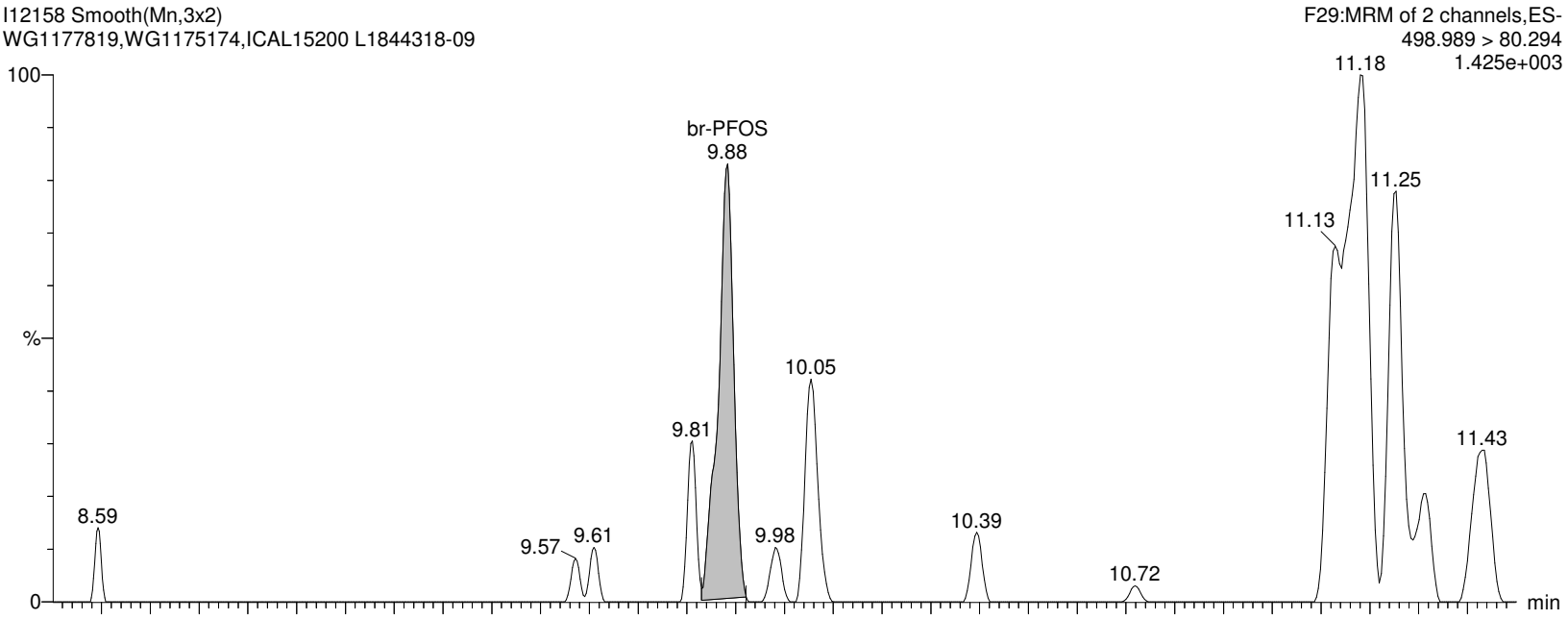

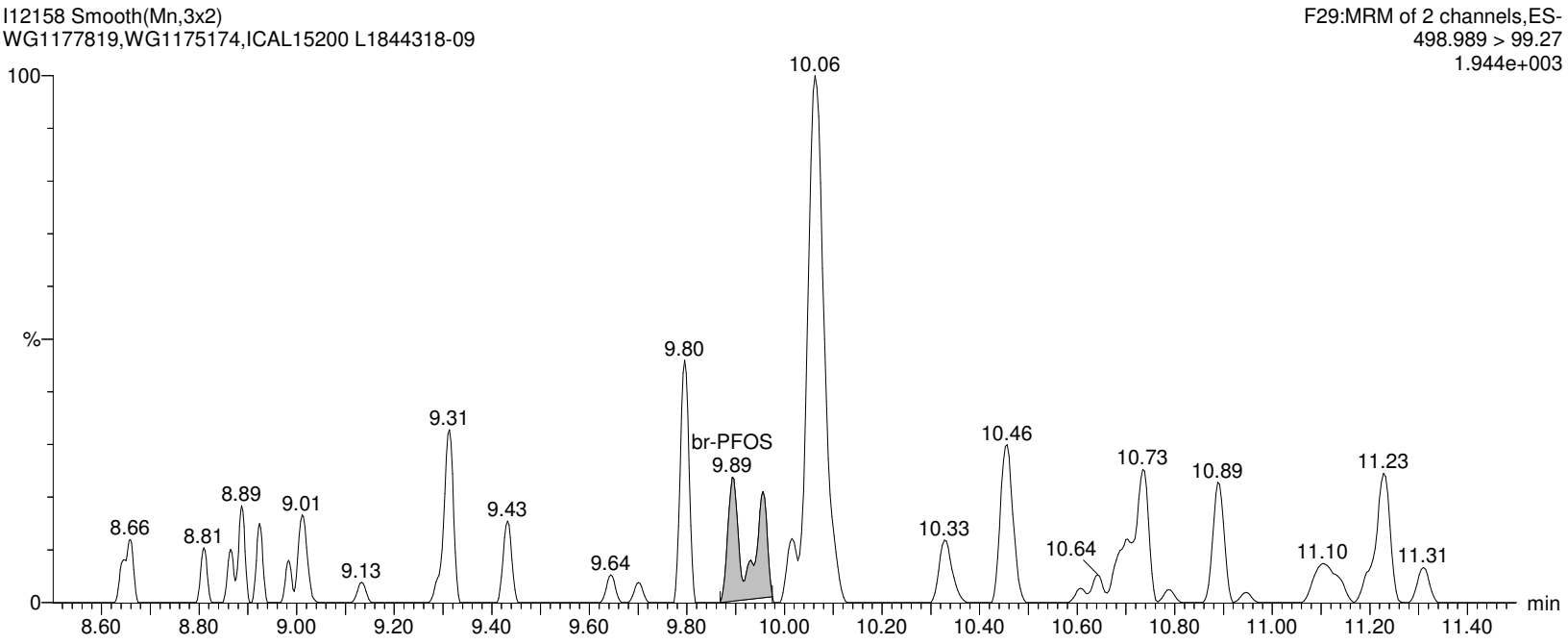

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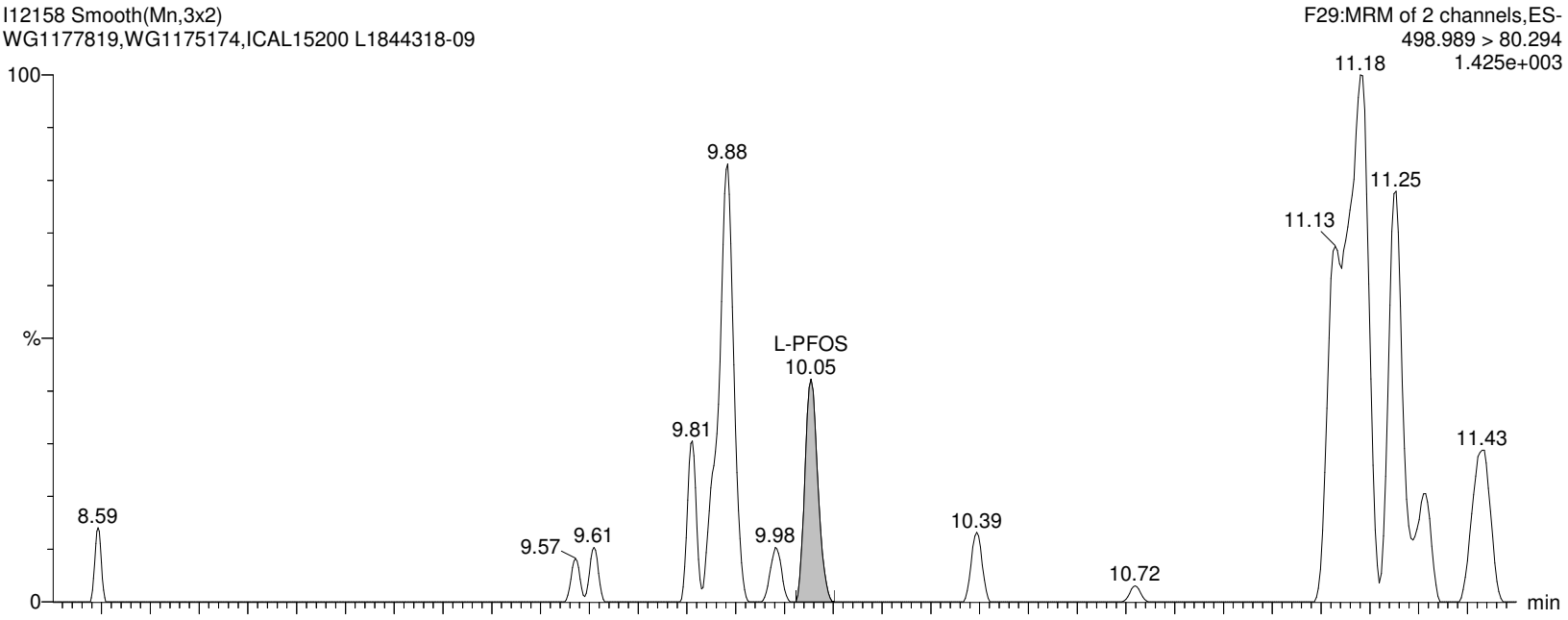

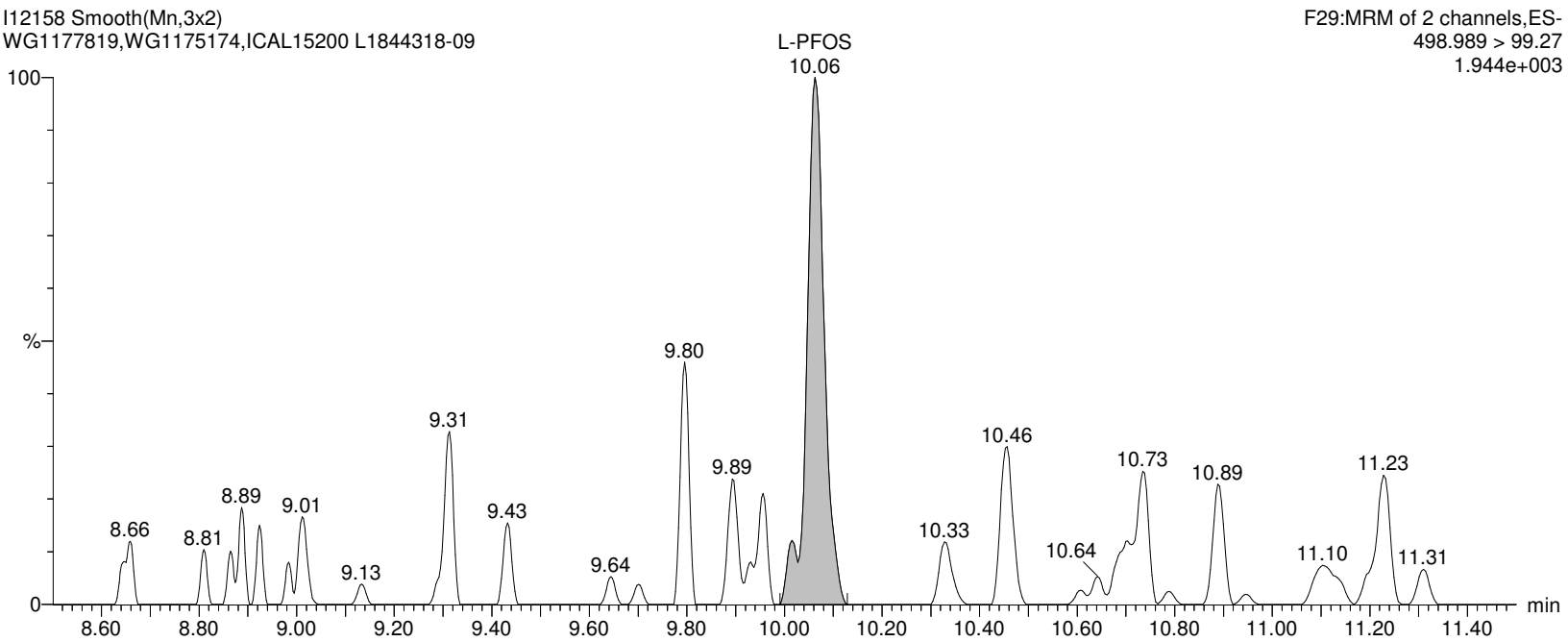

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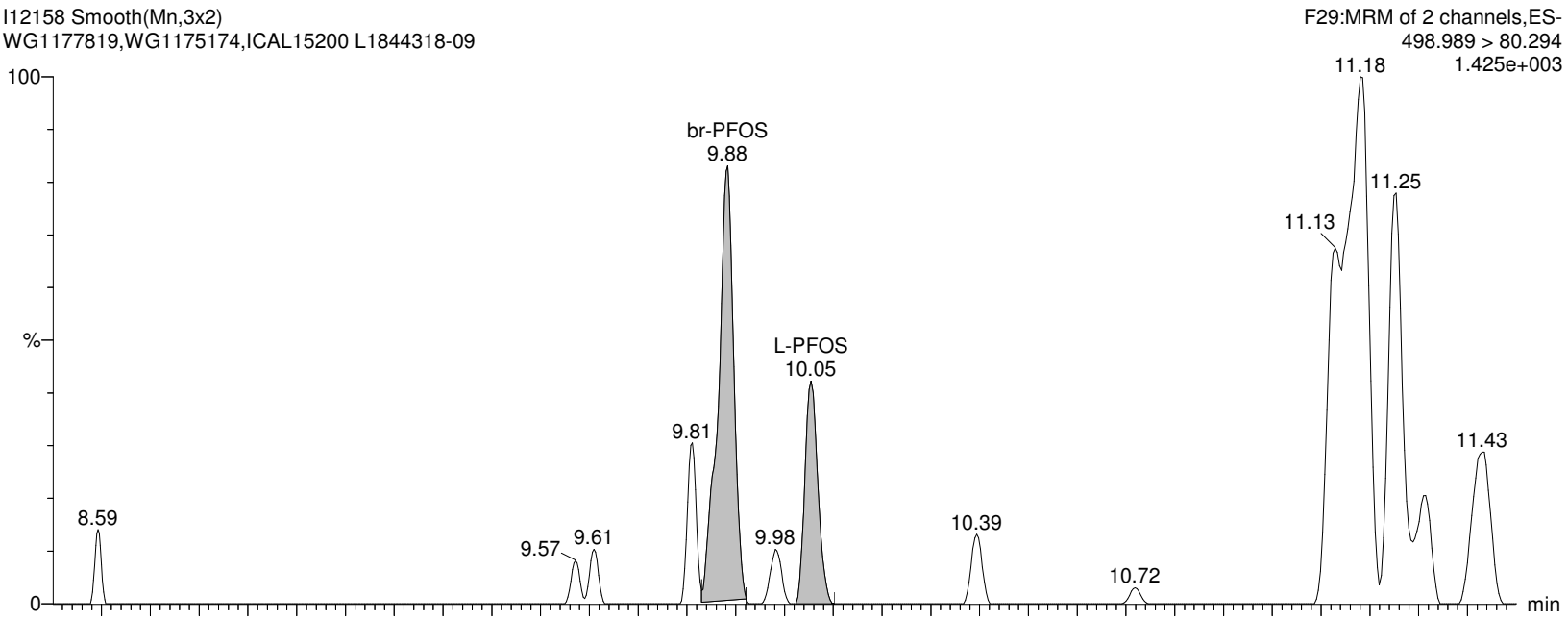

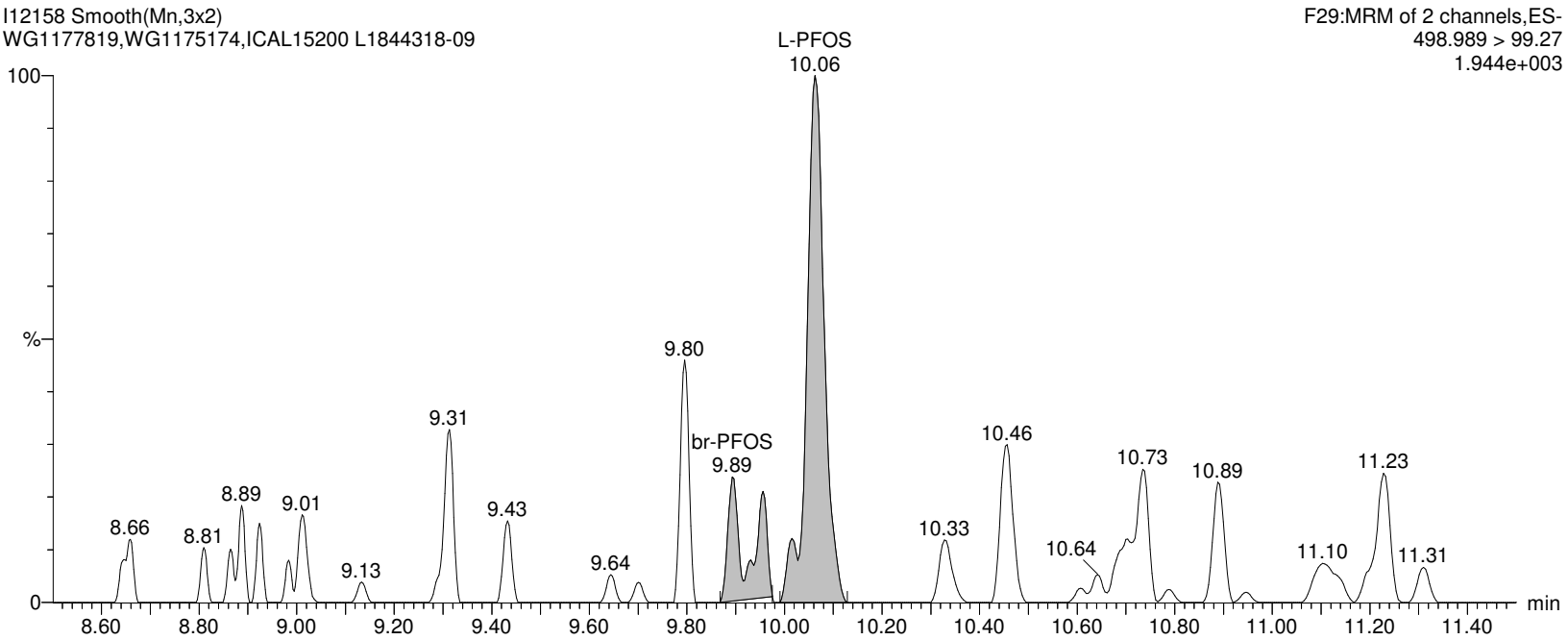

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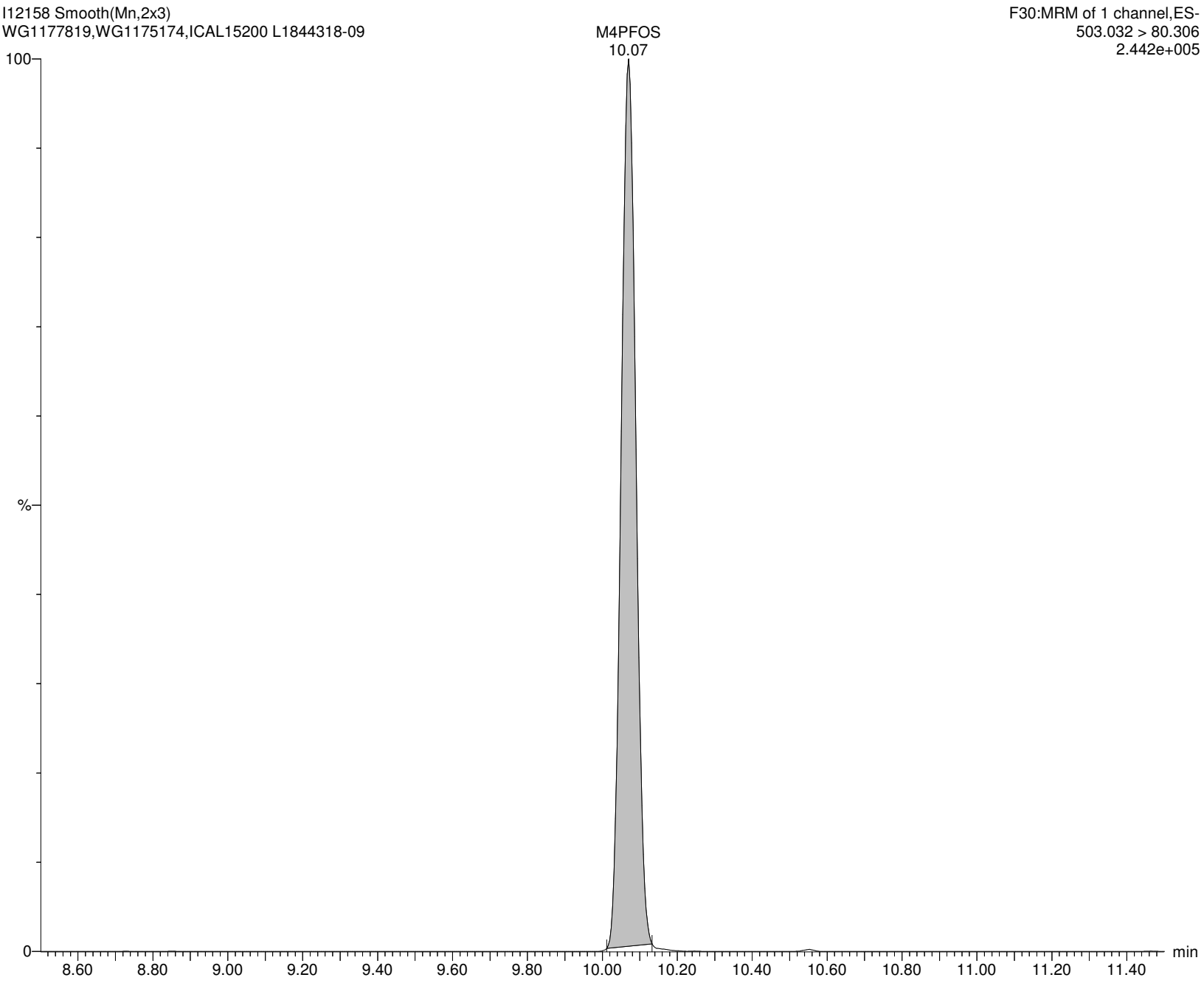

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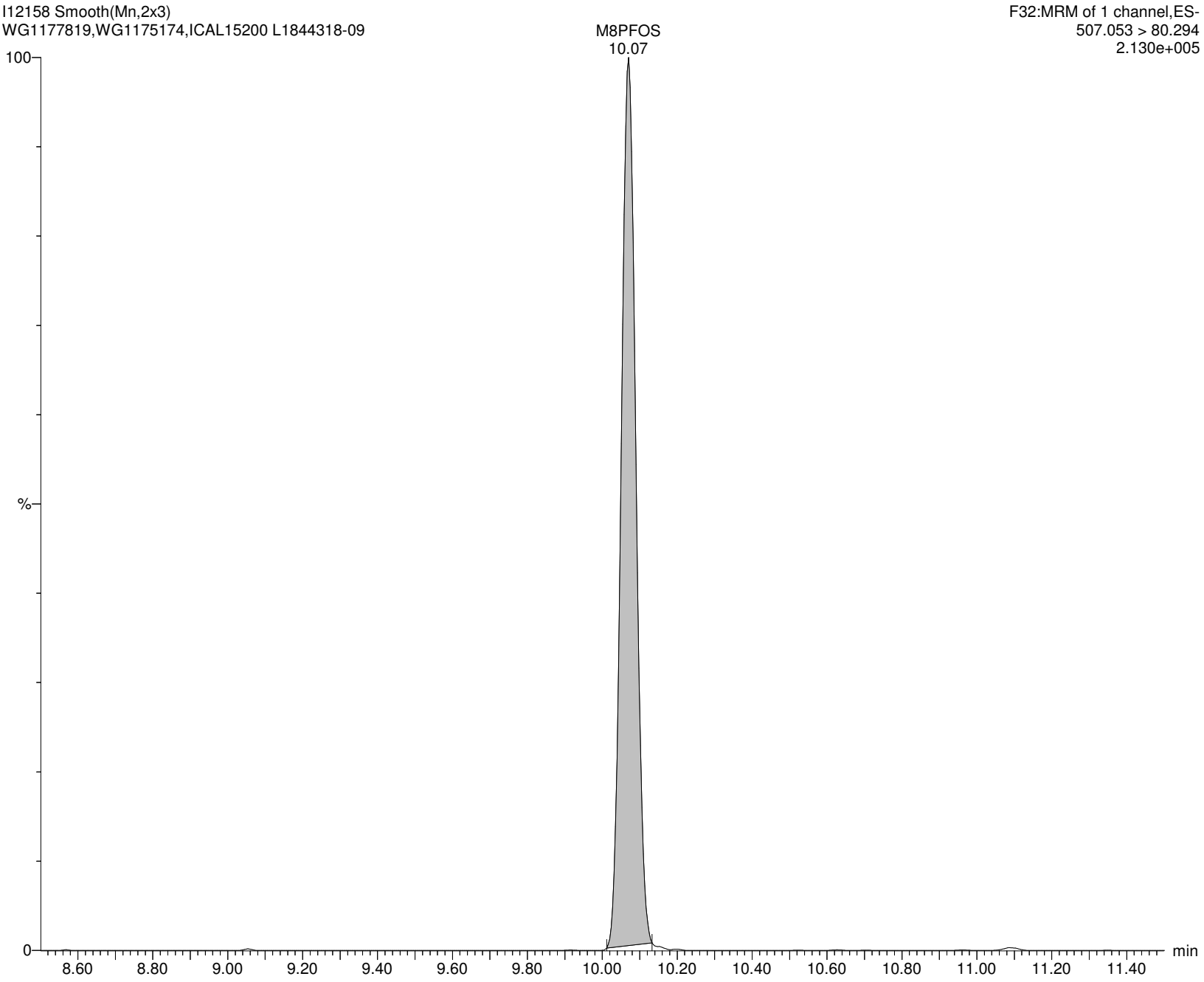

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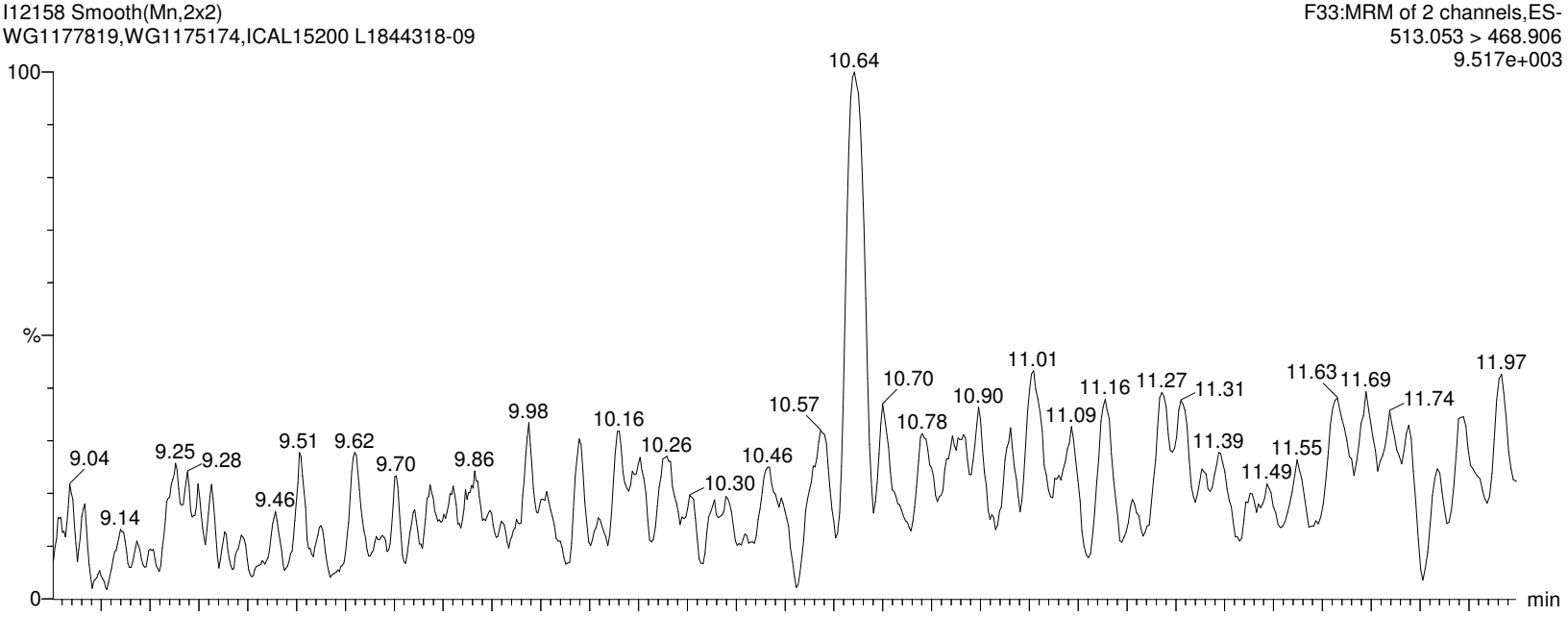

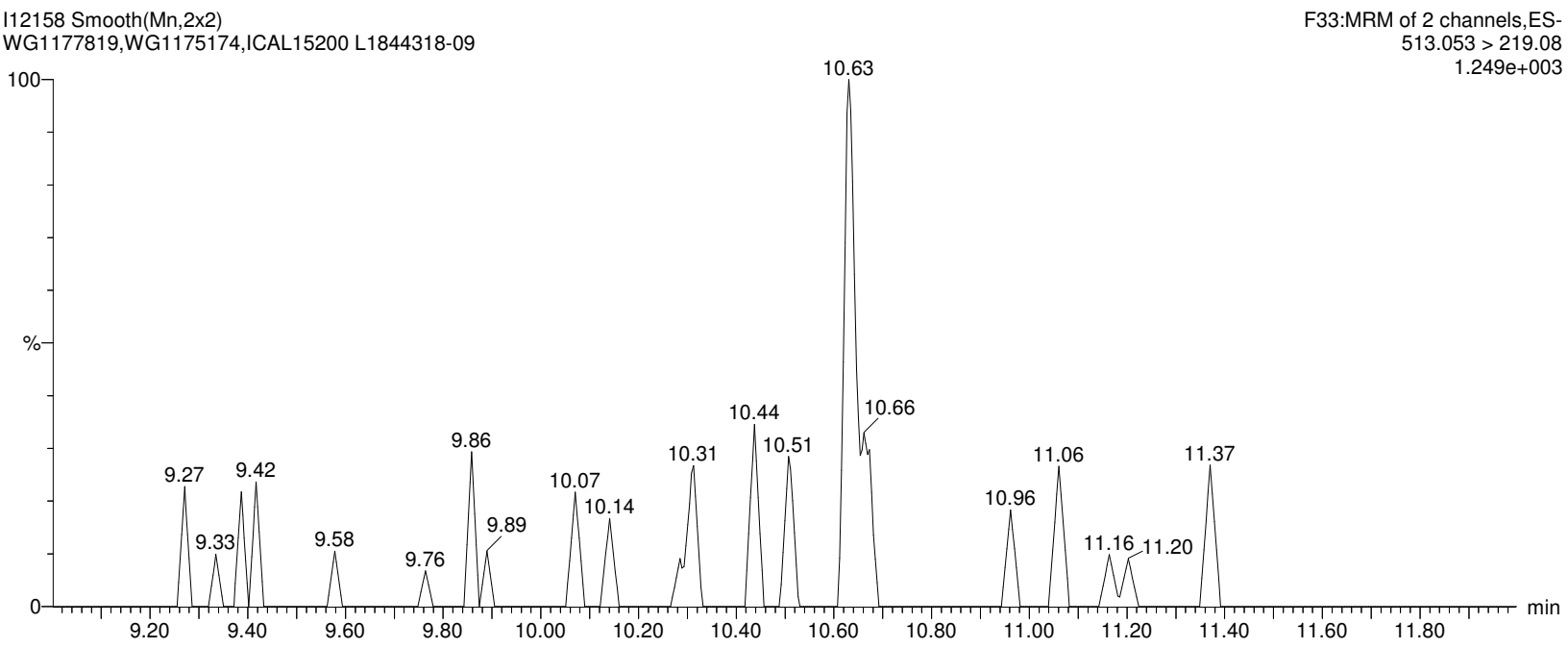

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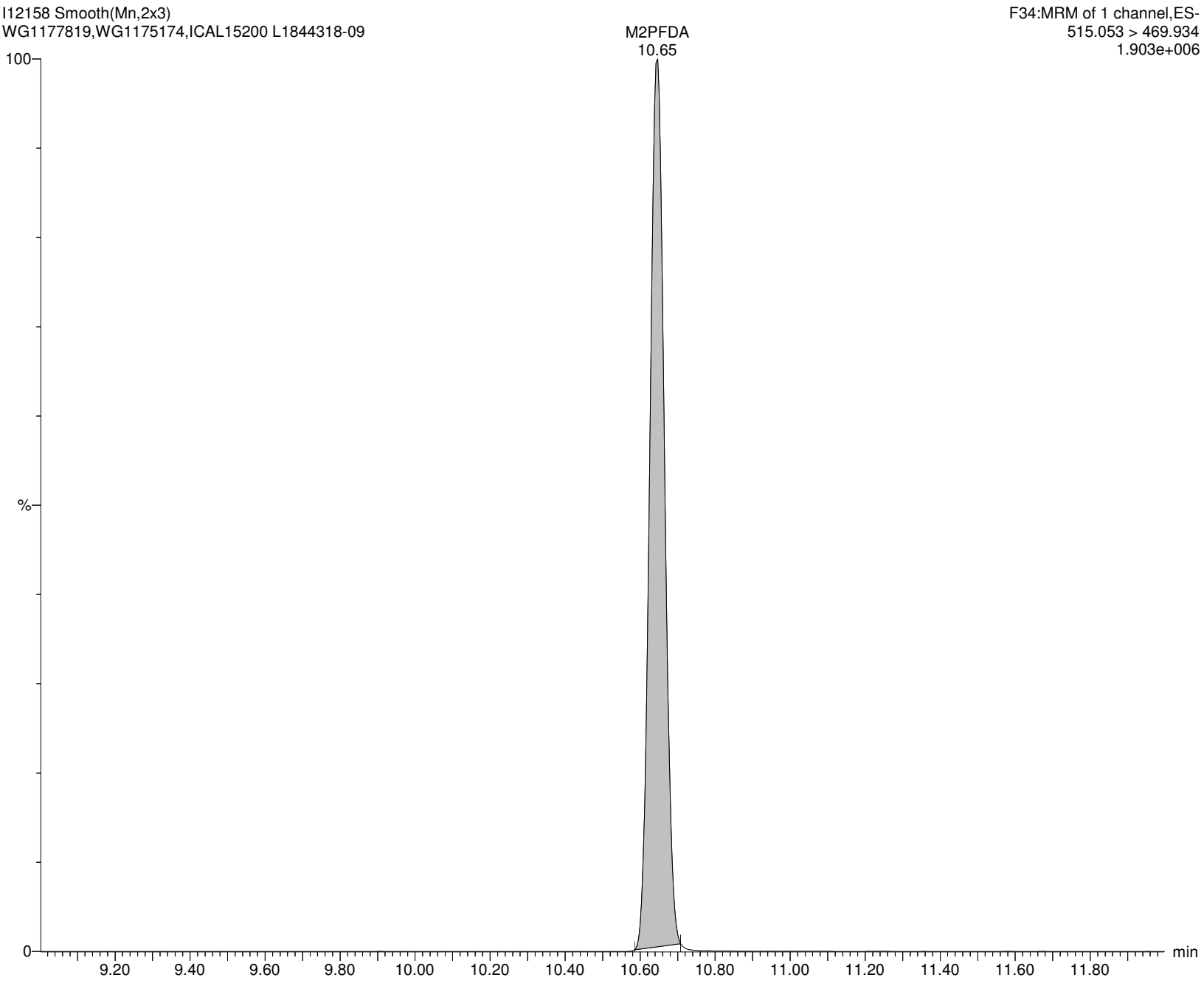

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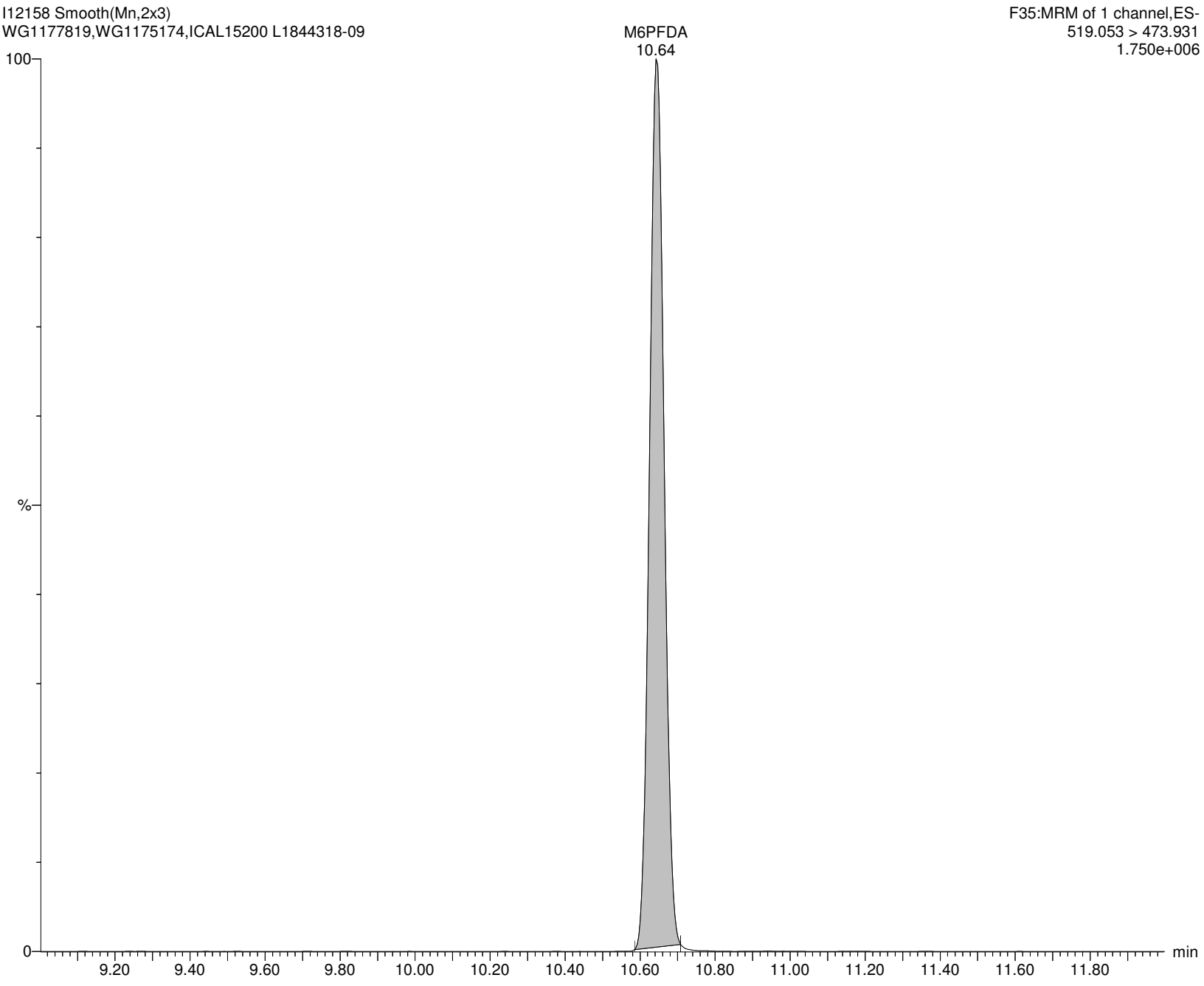

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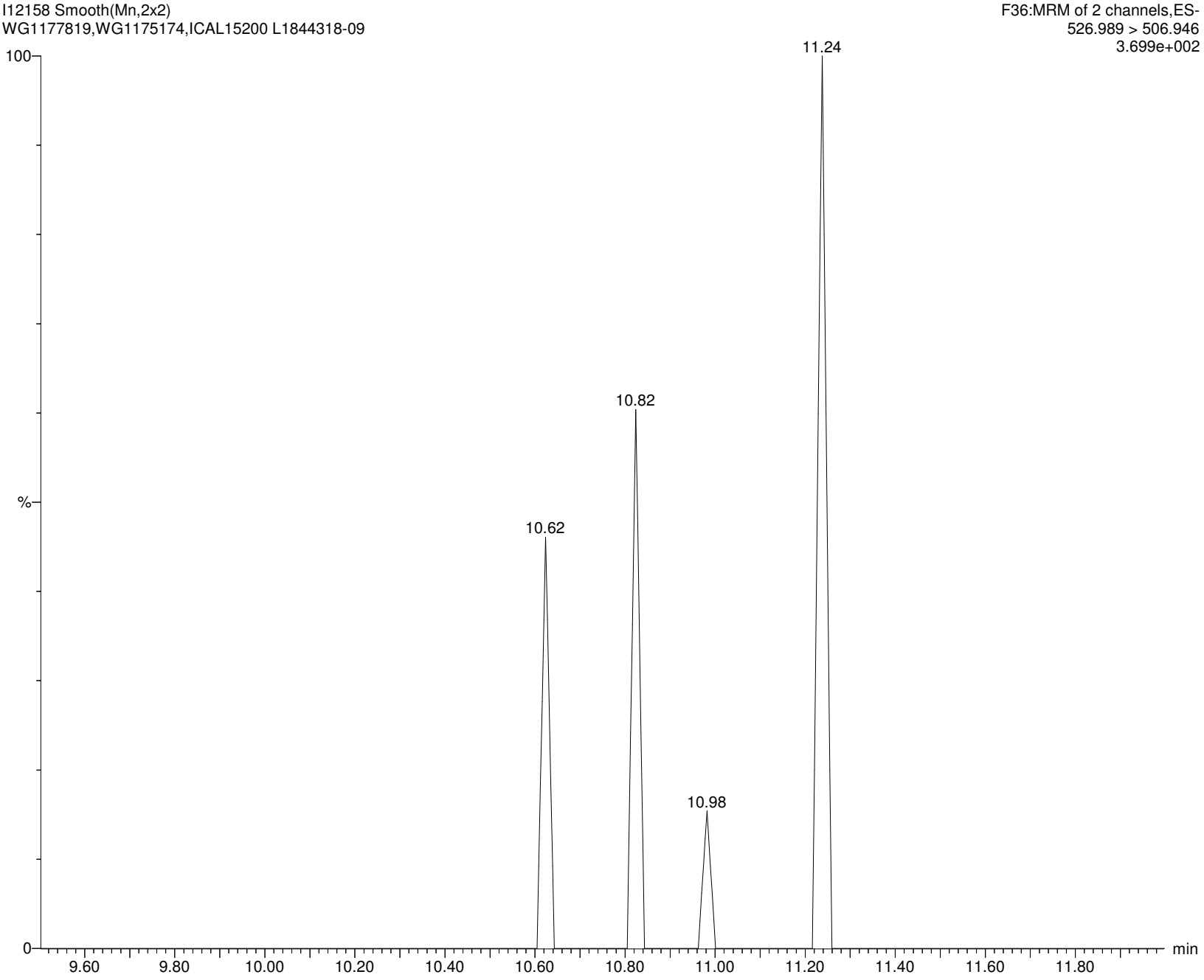

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:03 Eastern Standard Time

Name: I12158
ID: L1844318-09
Date: 10-Nov-2018
Time: 08:31:16
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEA0276
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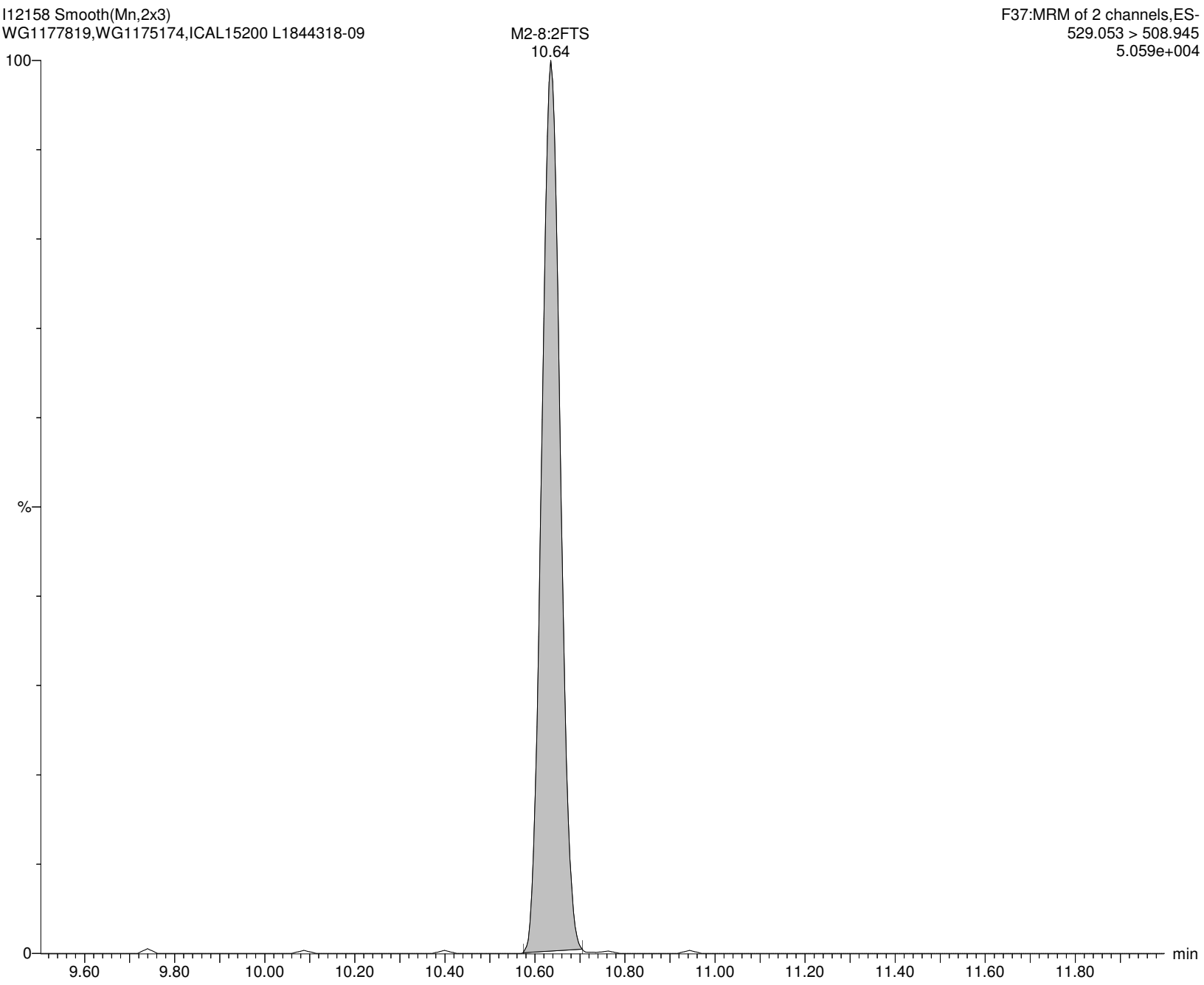

all concentration units in (ng/mL)

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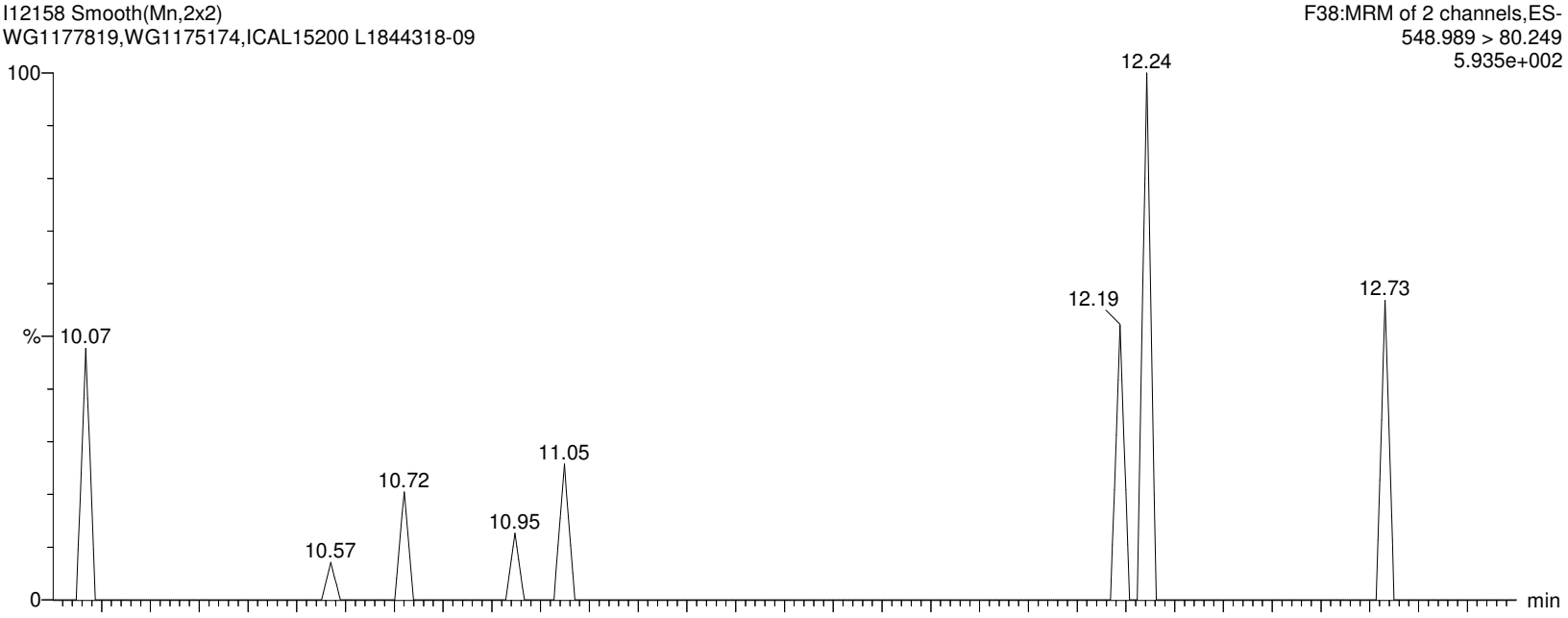

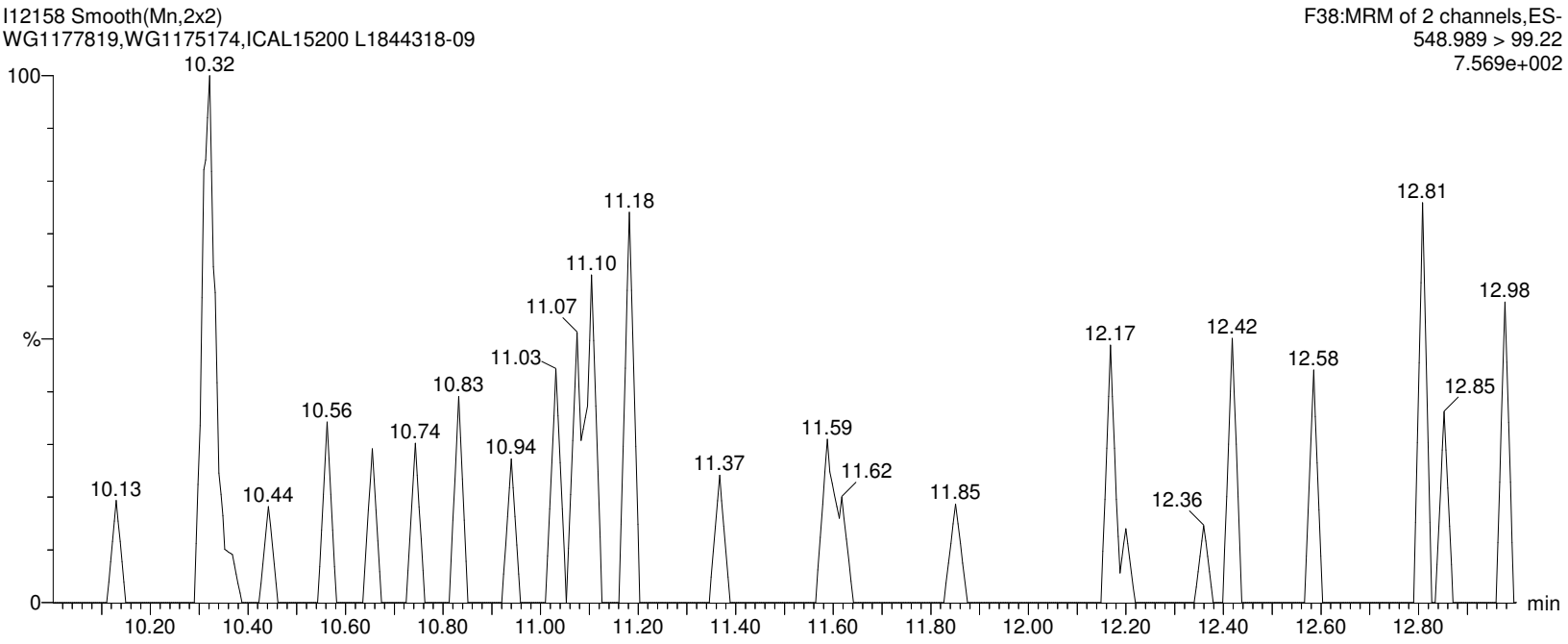

all concentration units in (ng/mL)

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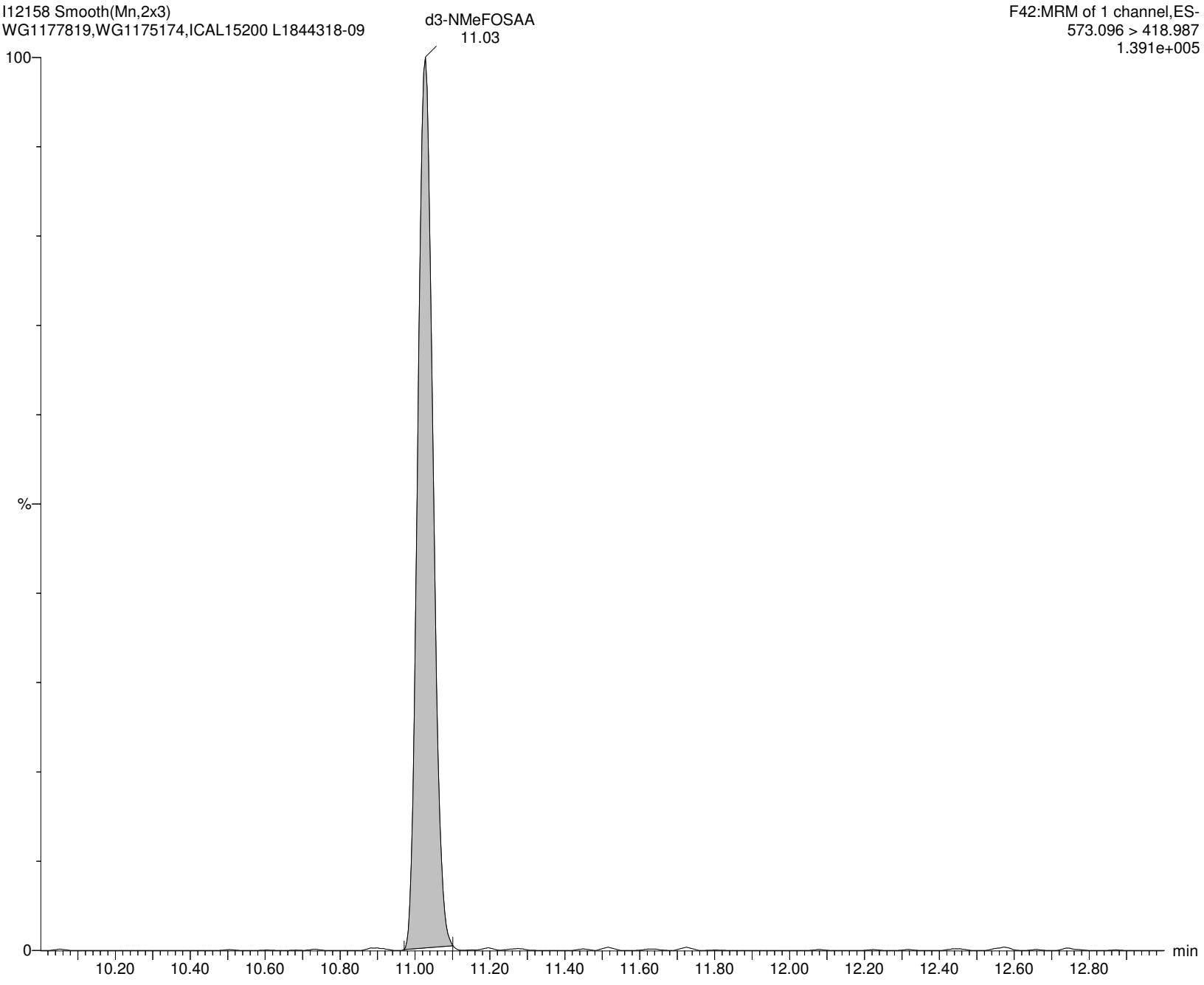

all concentration units in (ng/mL)

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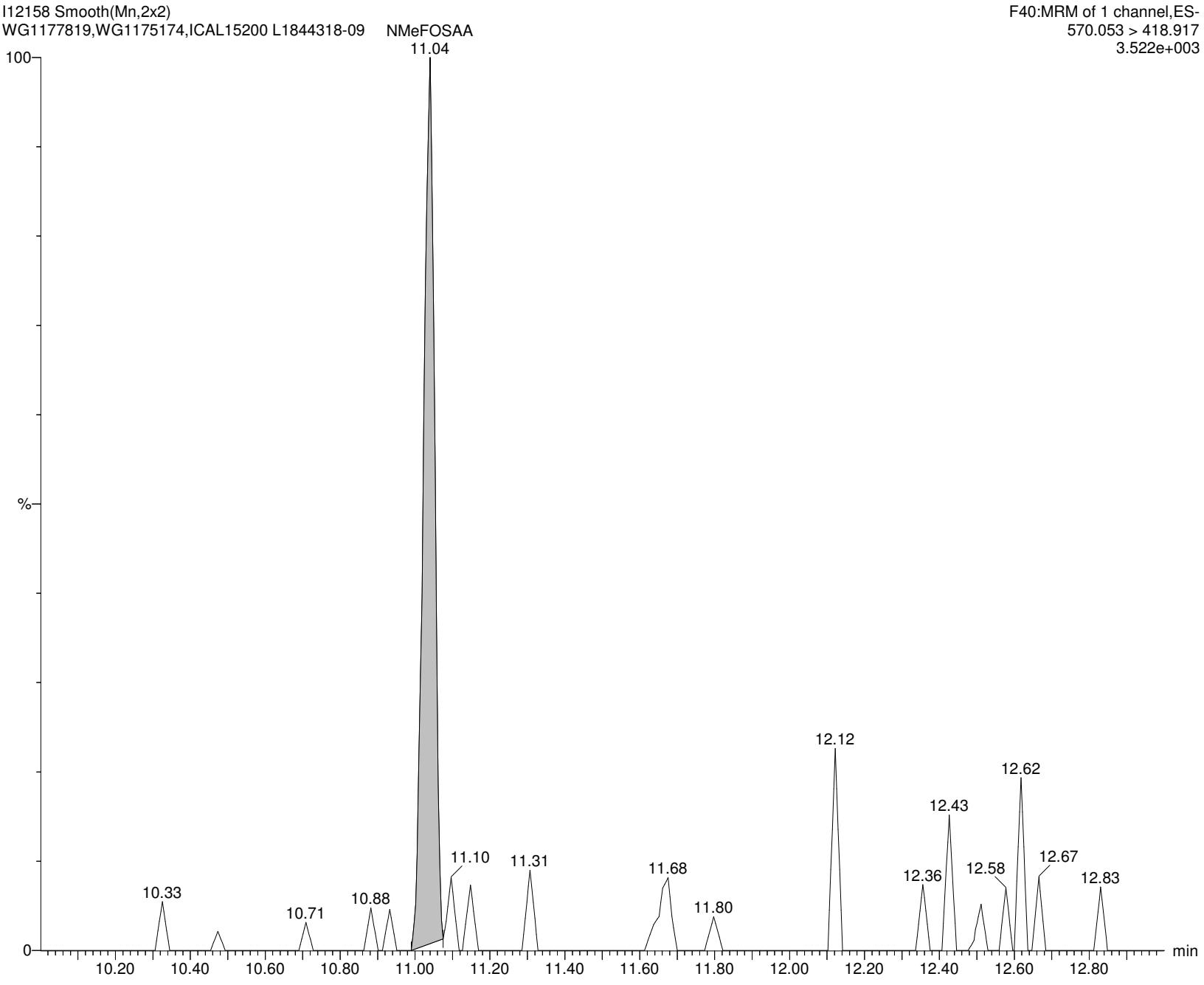

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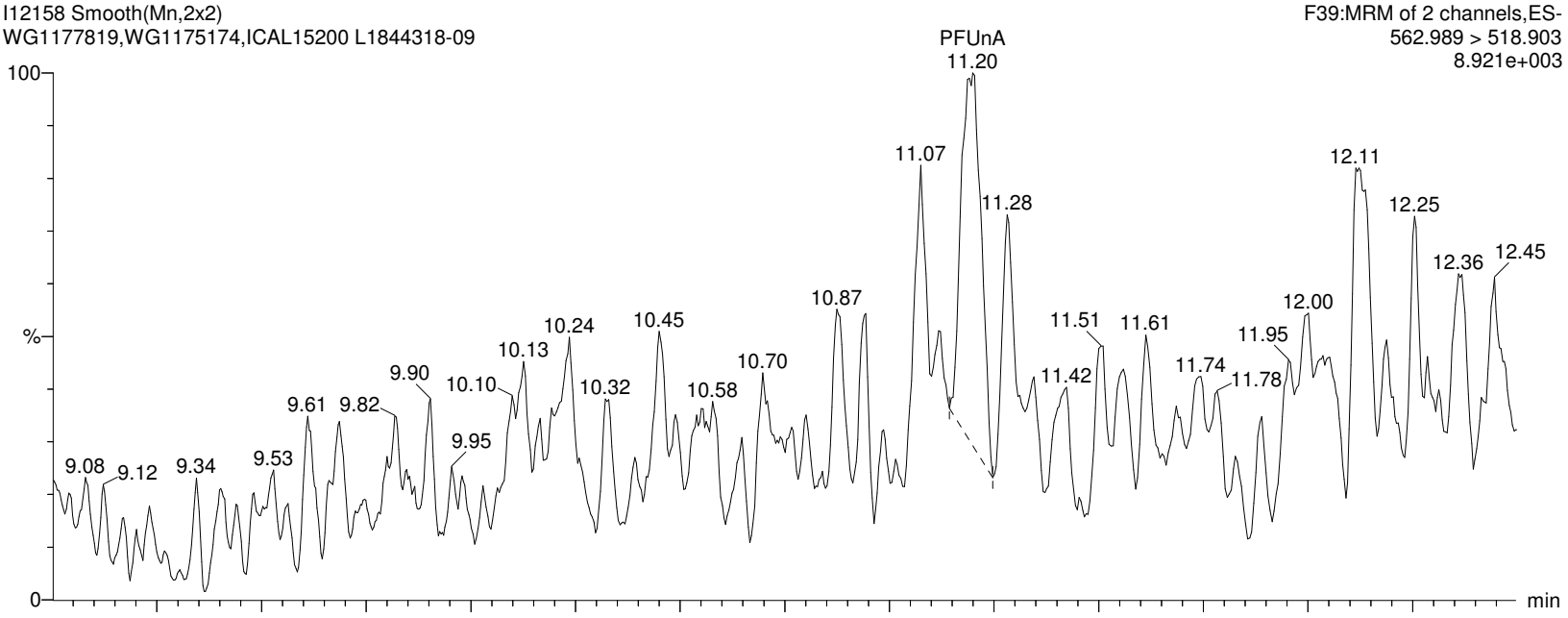

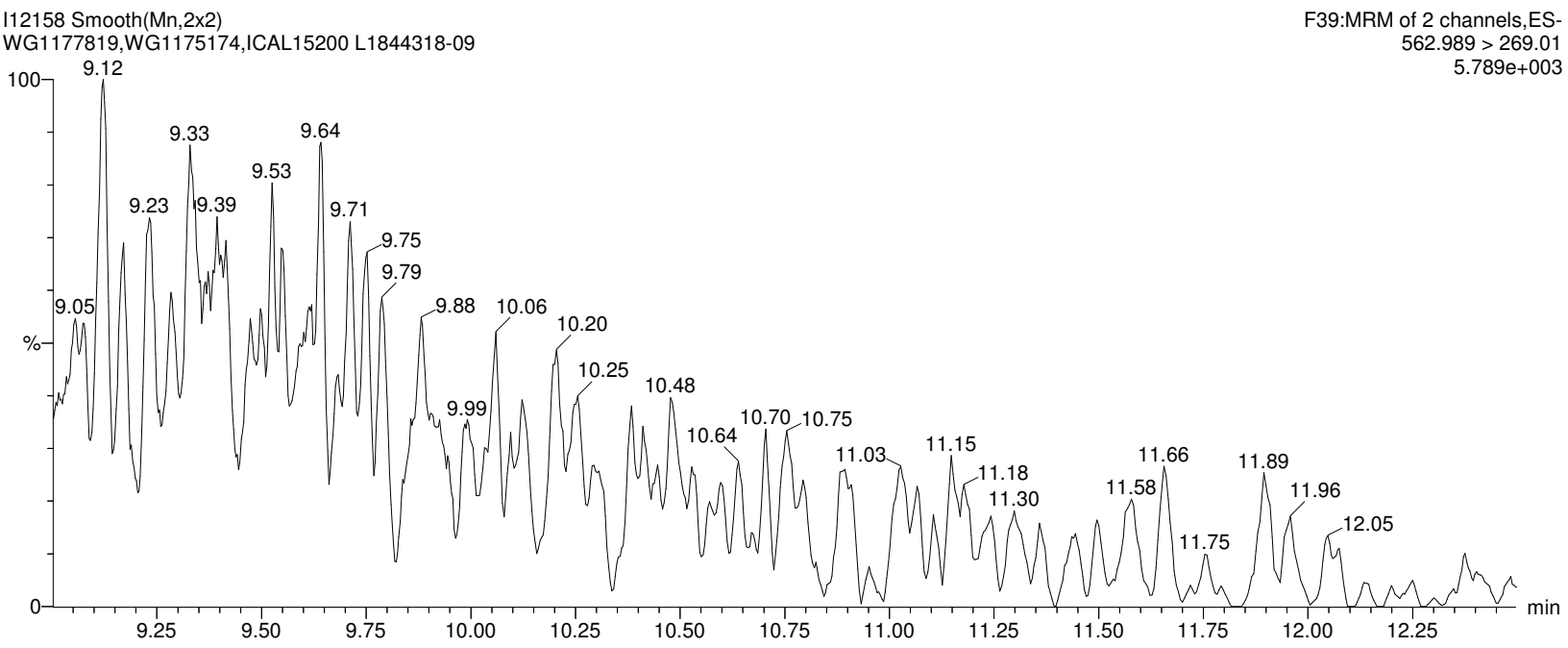

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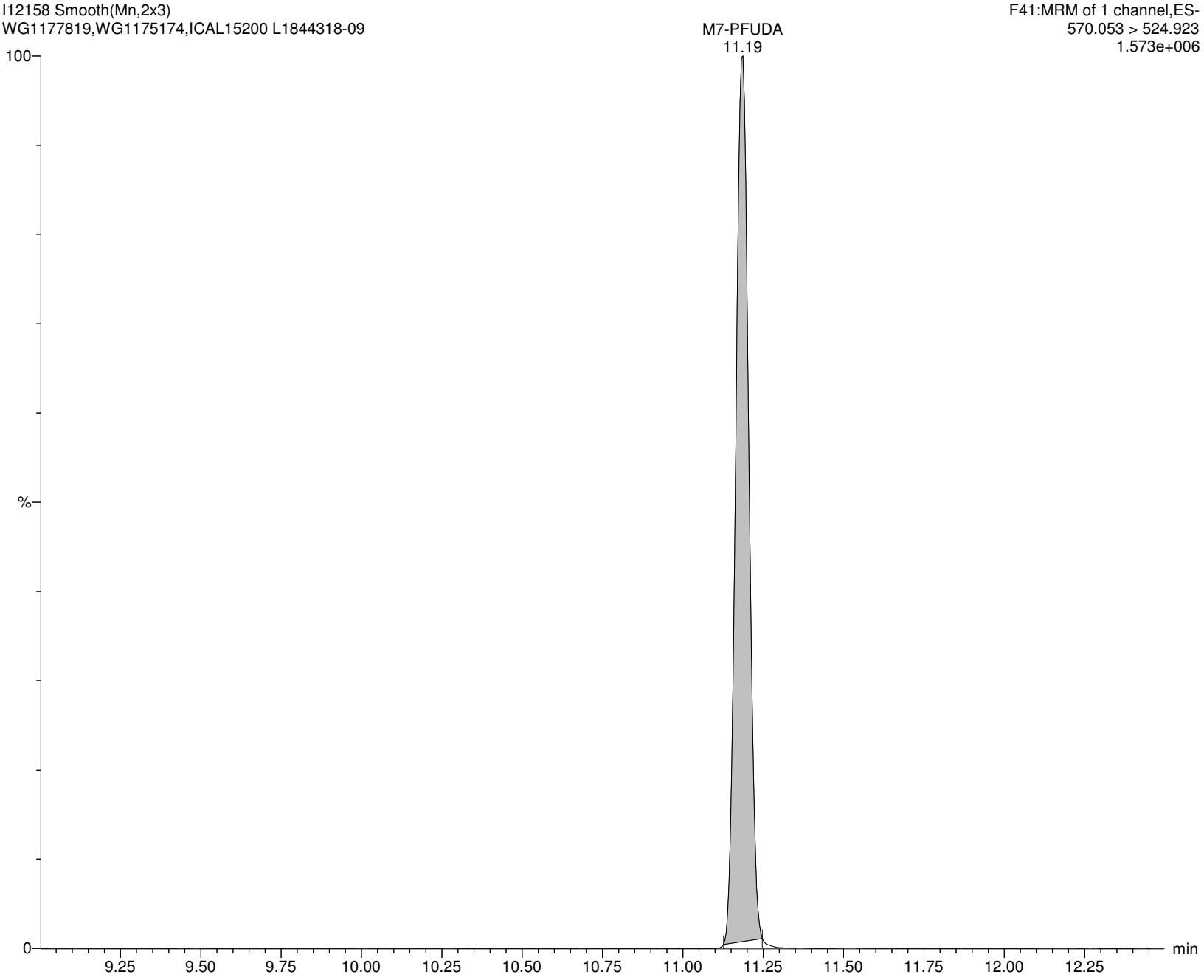

all concentration units in (ng/mL)

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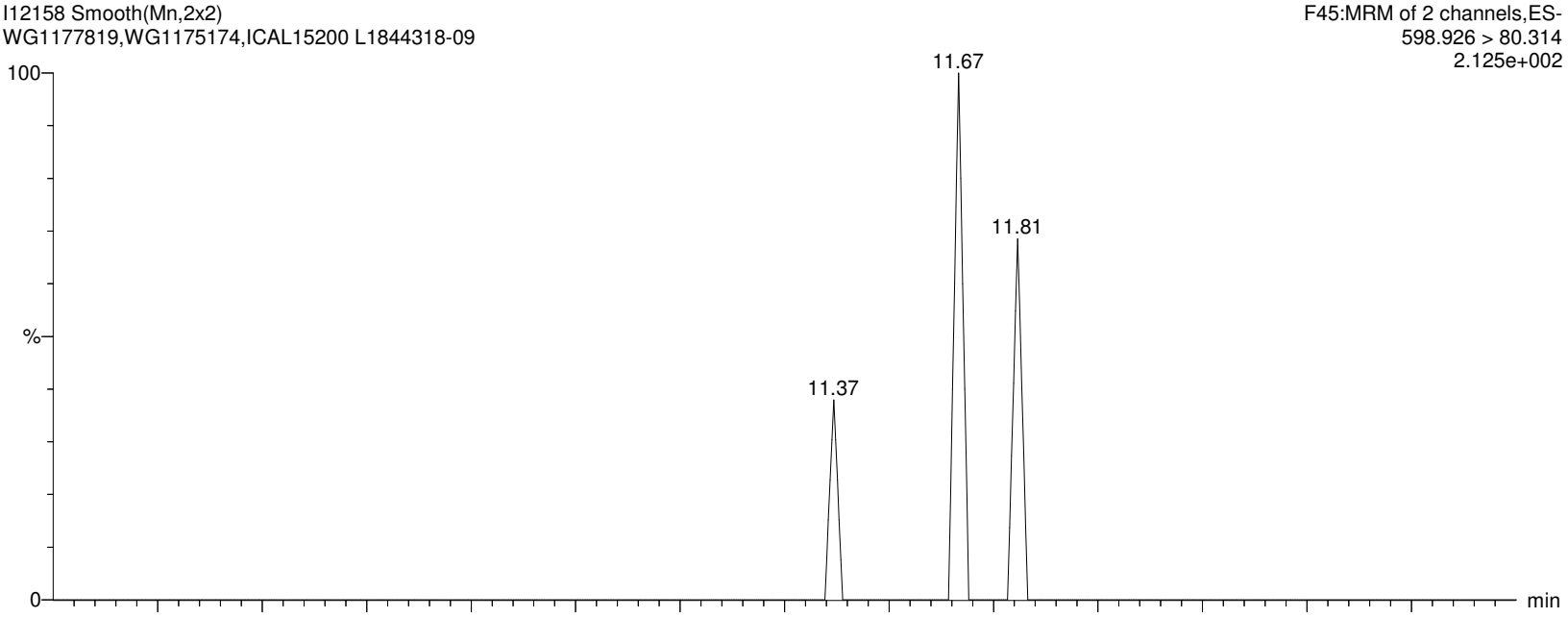

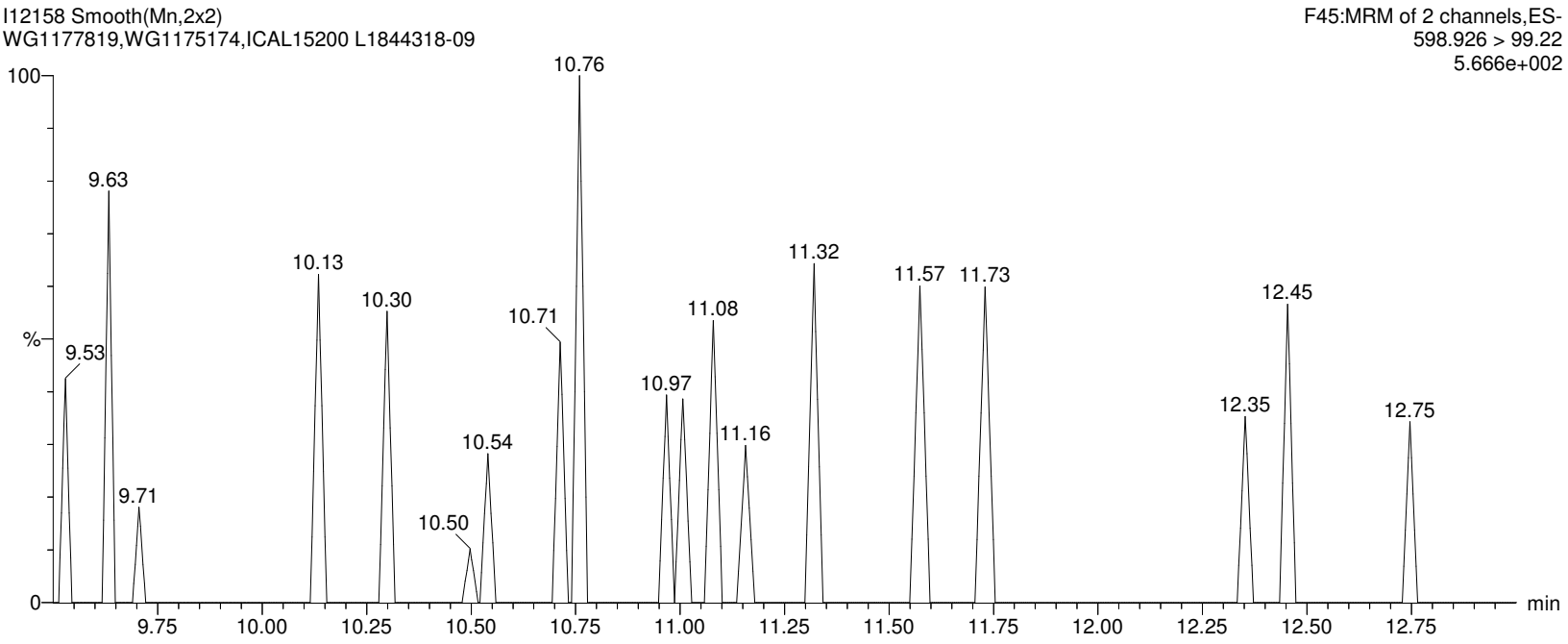

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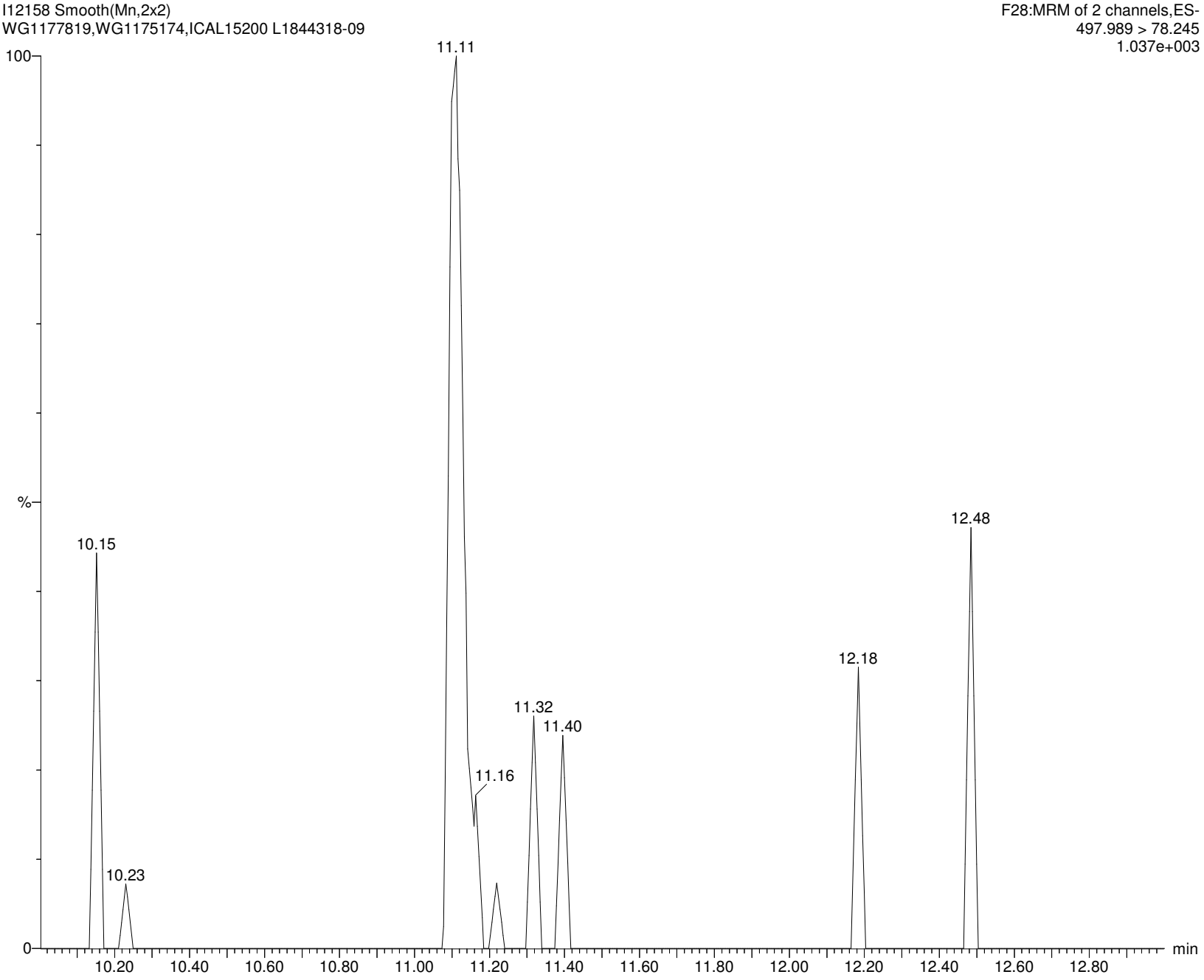

all concentration units in (ng/mL)

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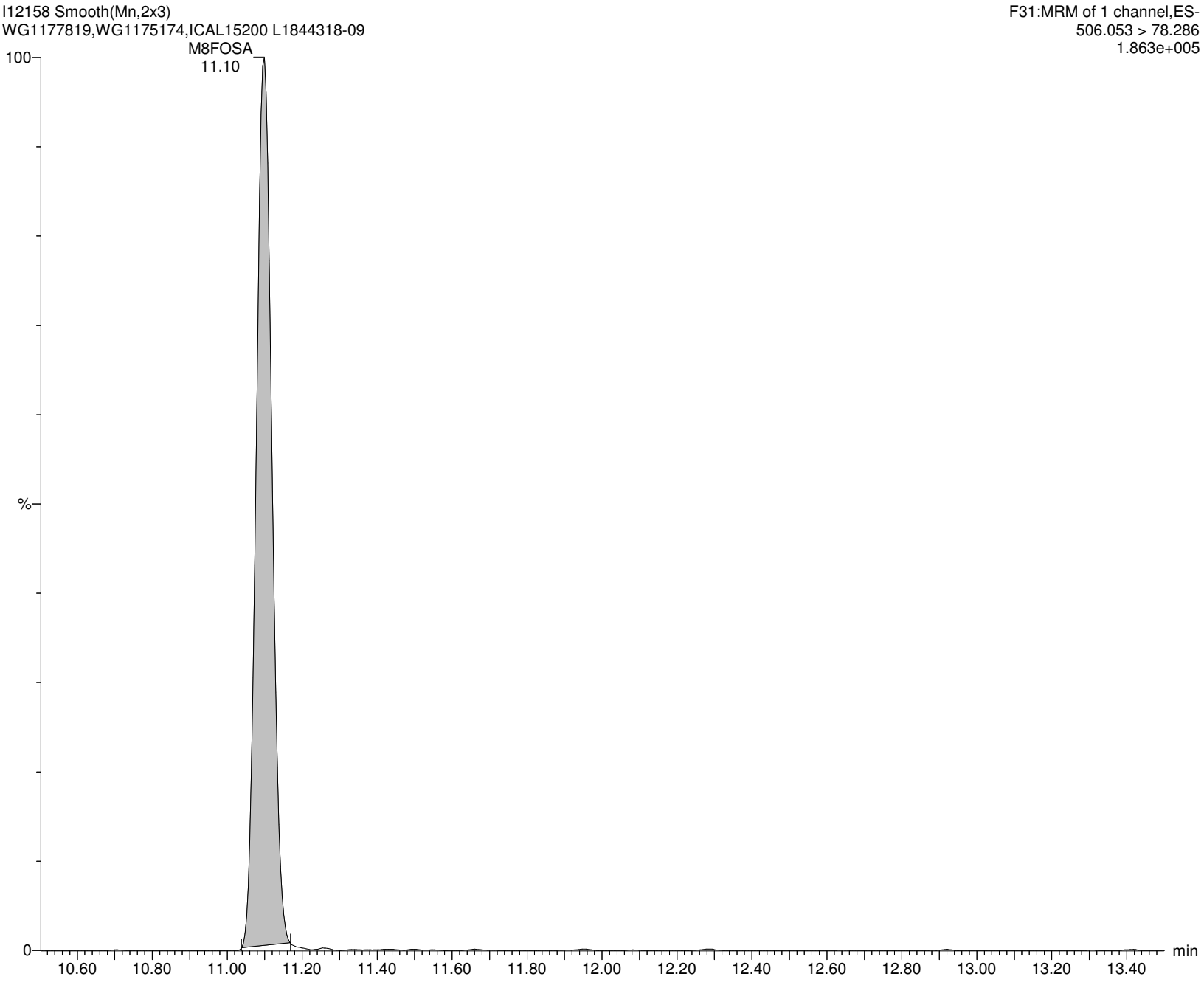

all concentration units in (ng/mL)

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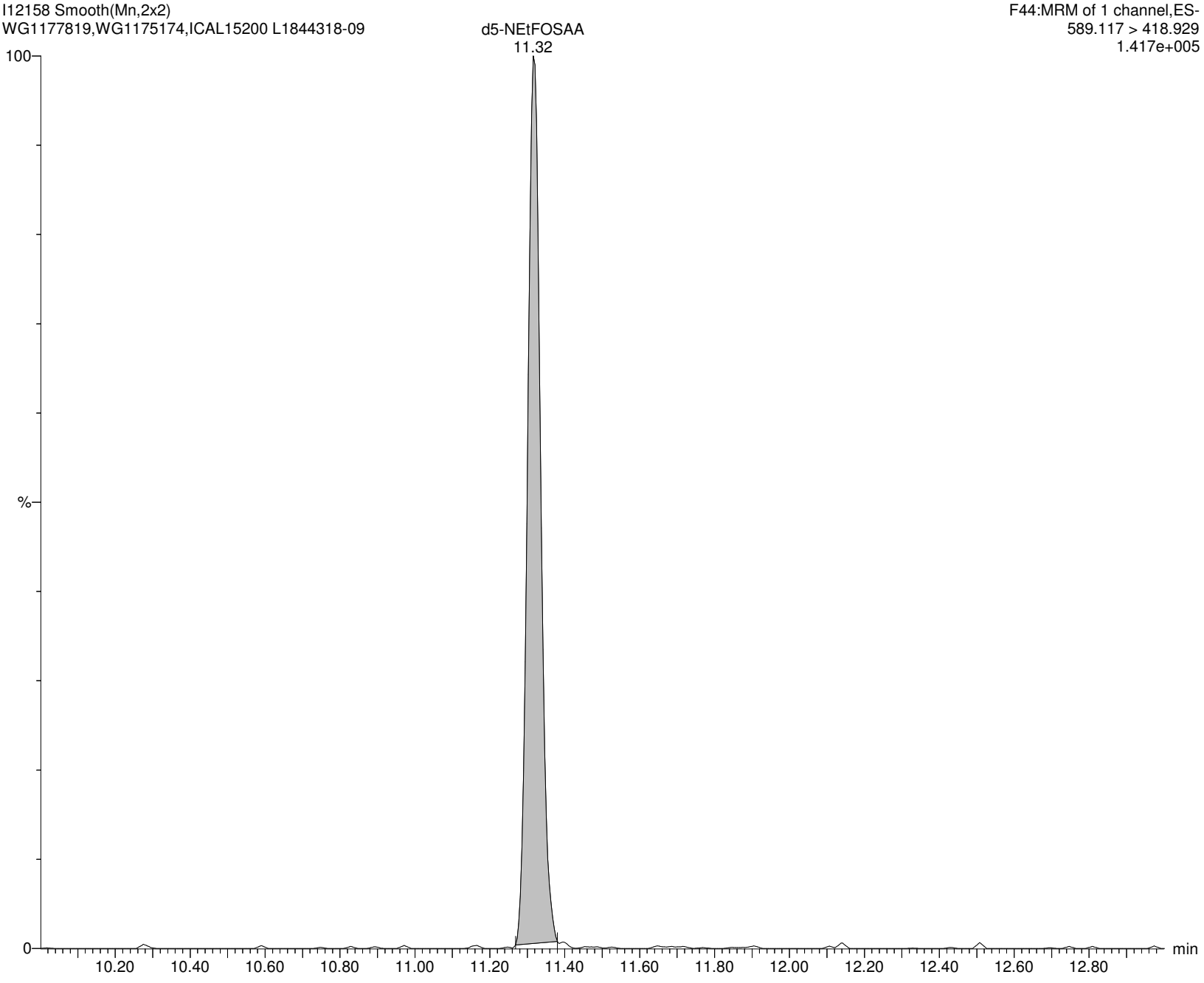
d5-NEtFOSAA



all concentration units in (ng/mL)

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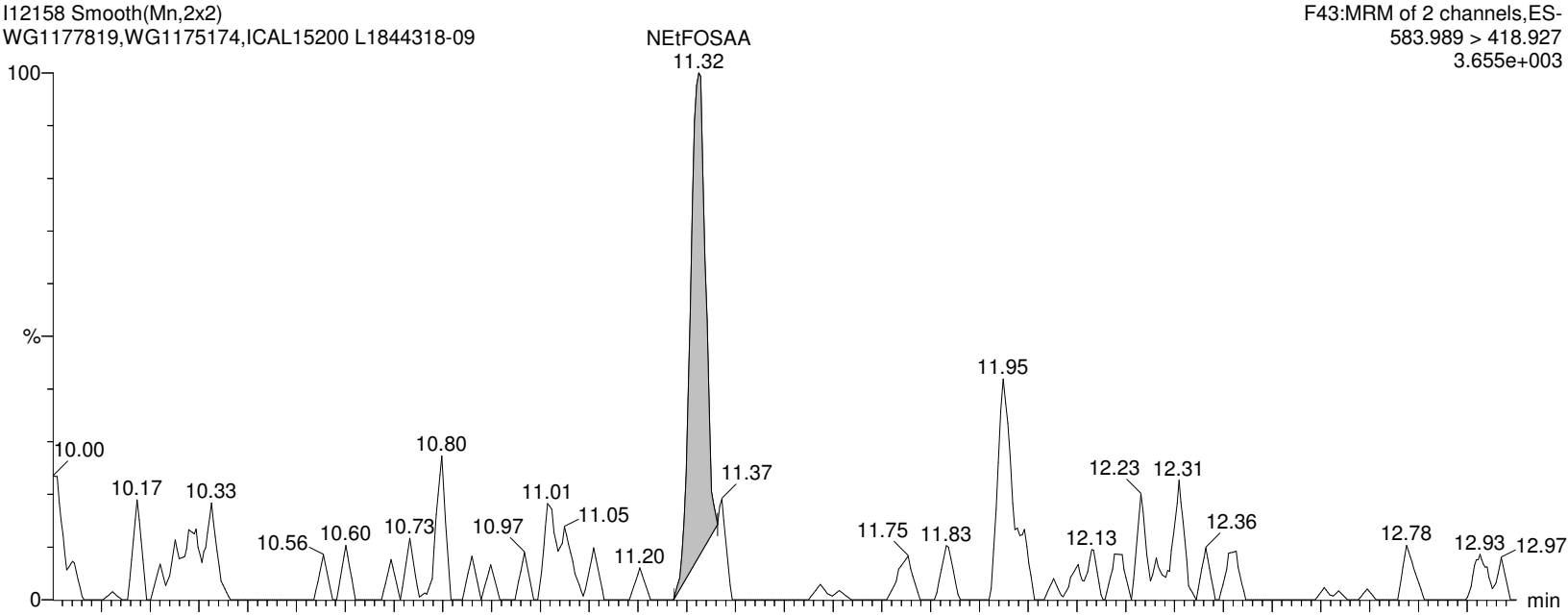

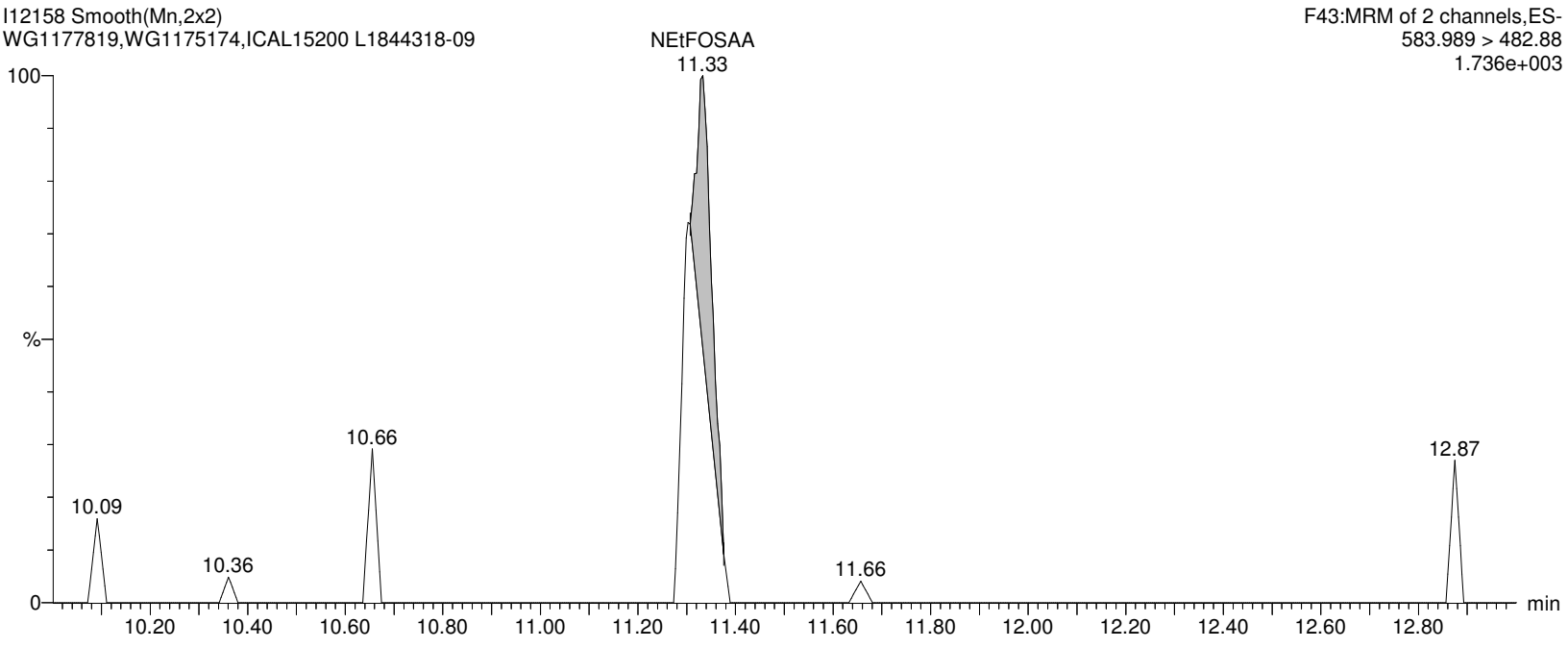

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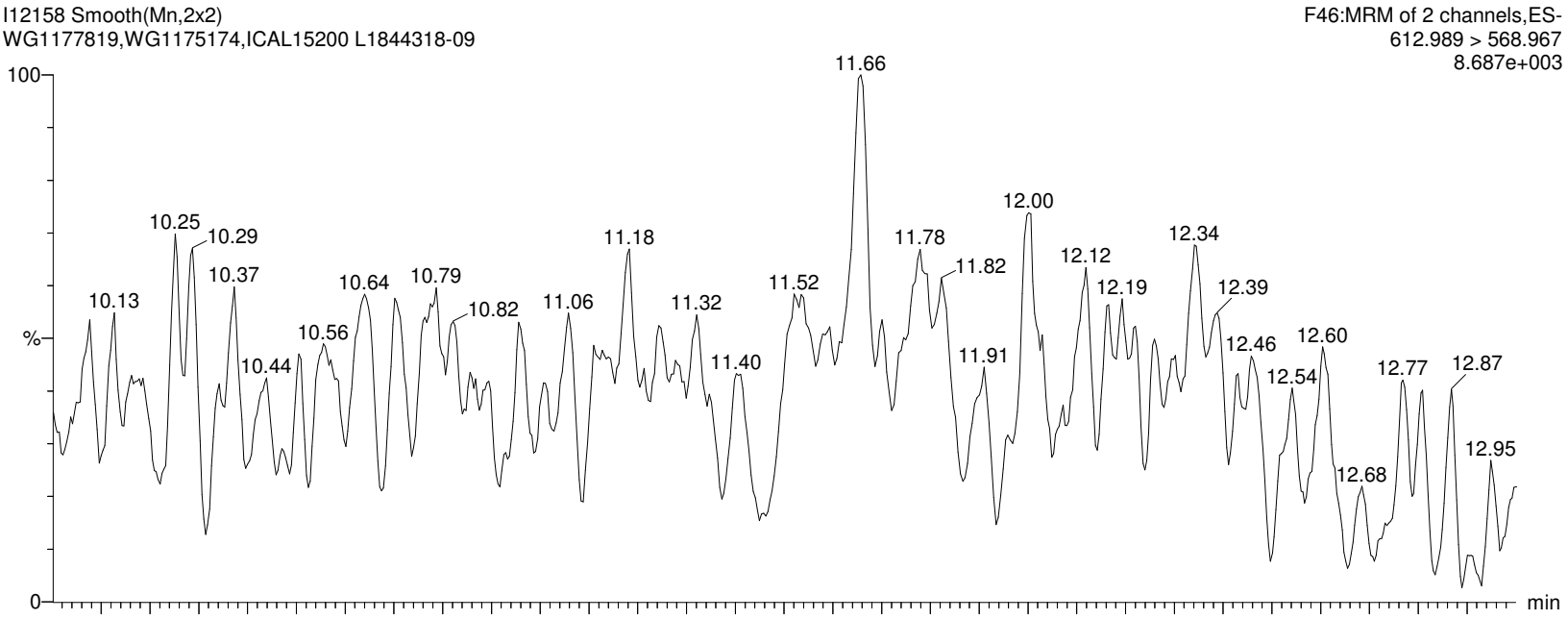

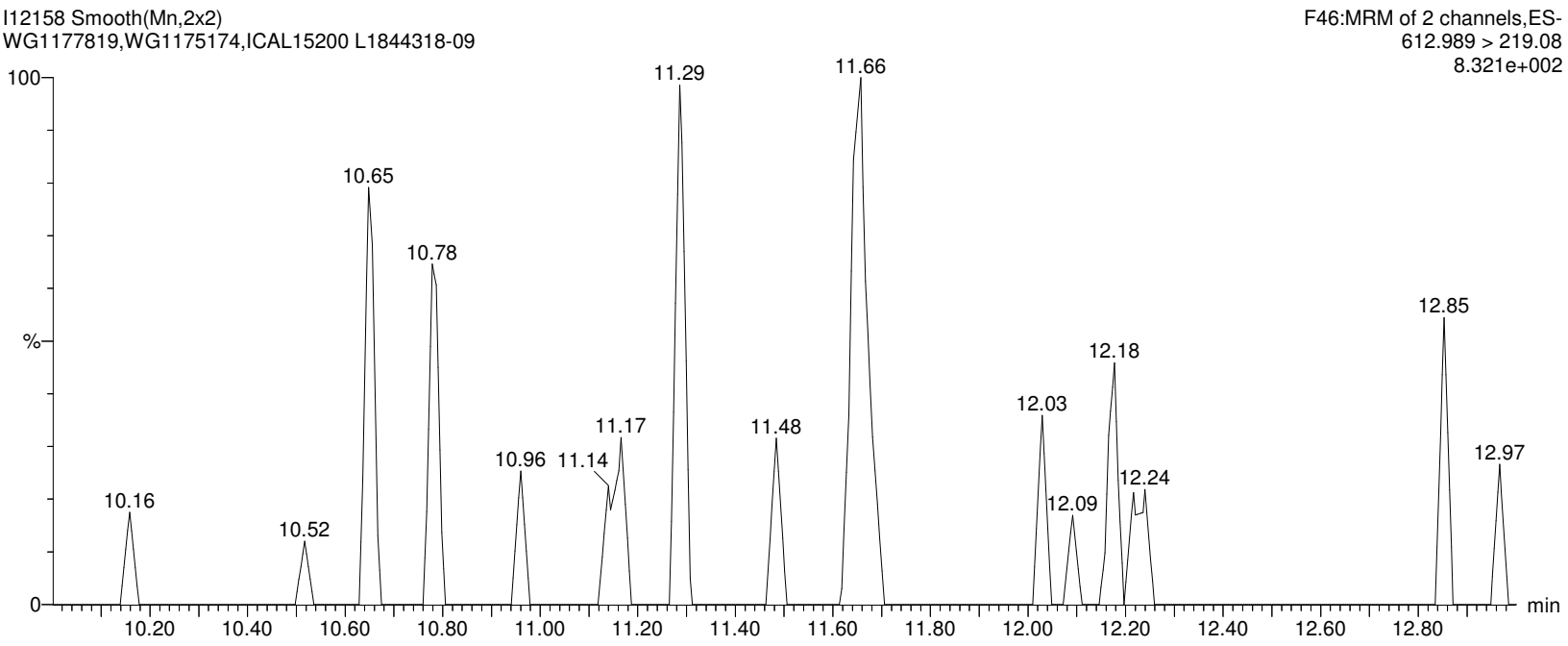

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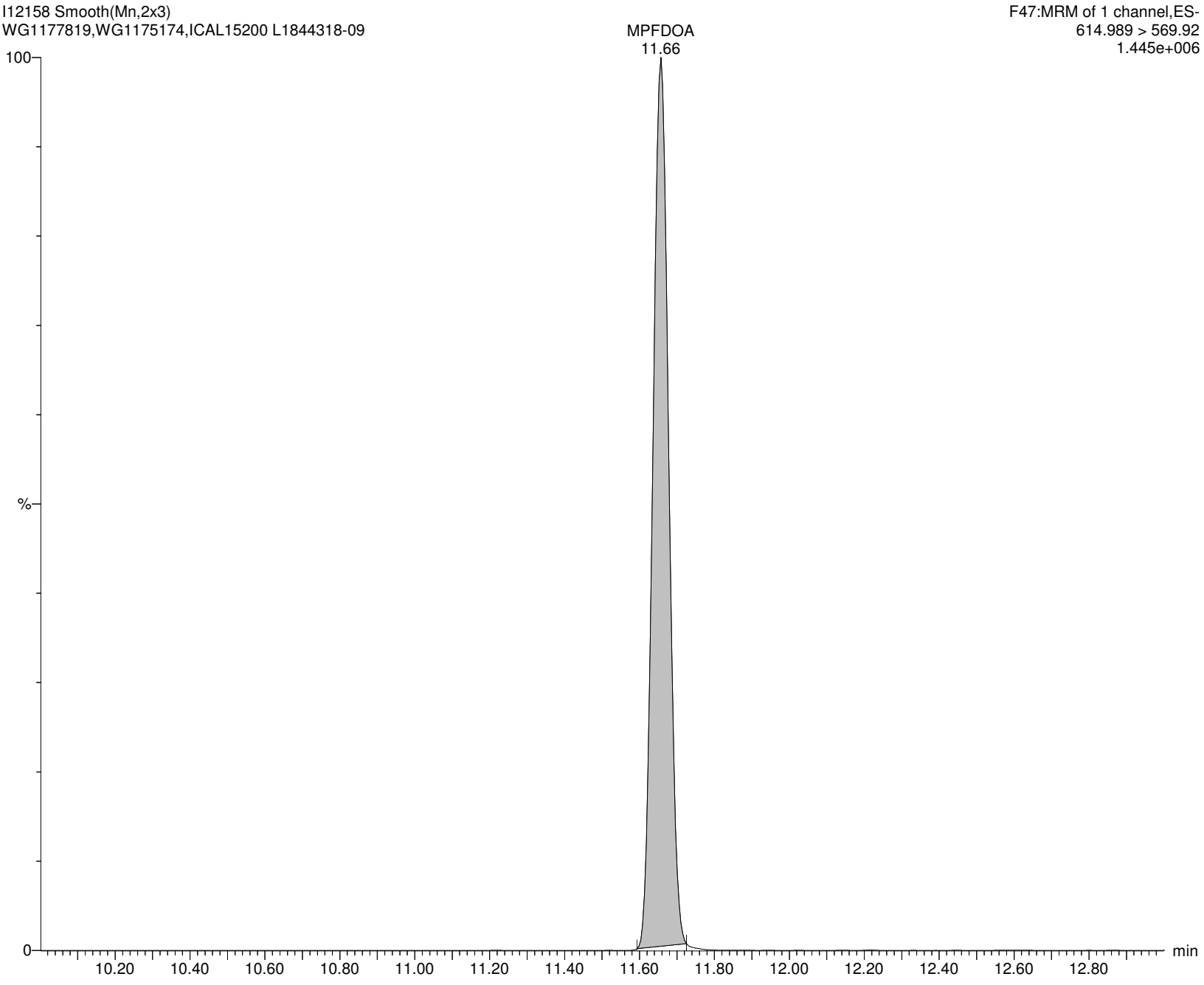

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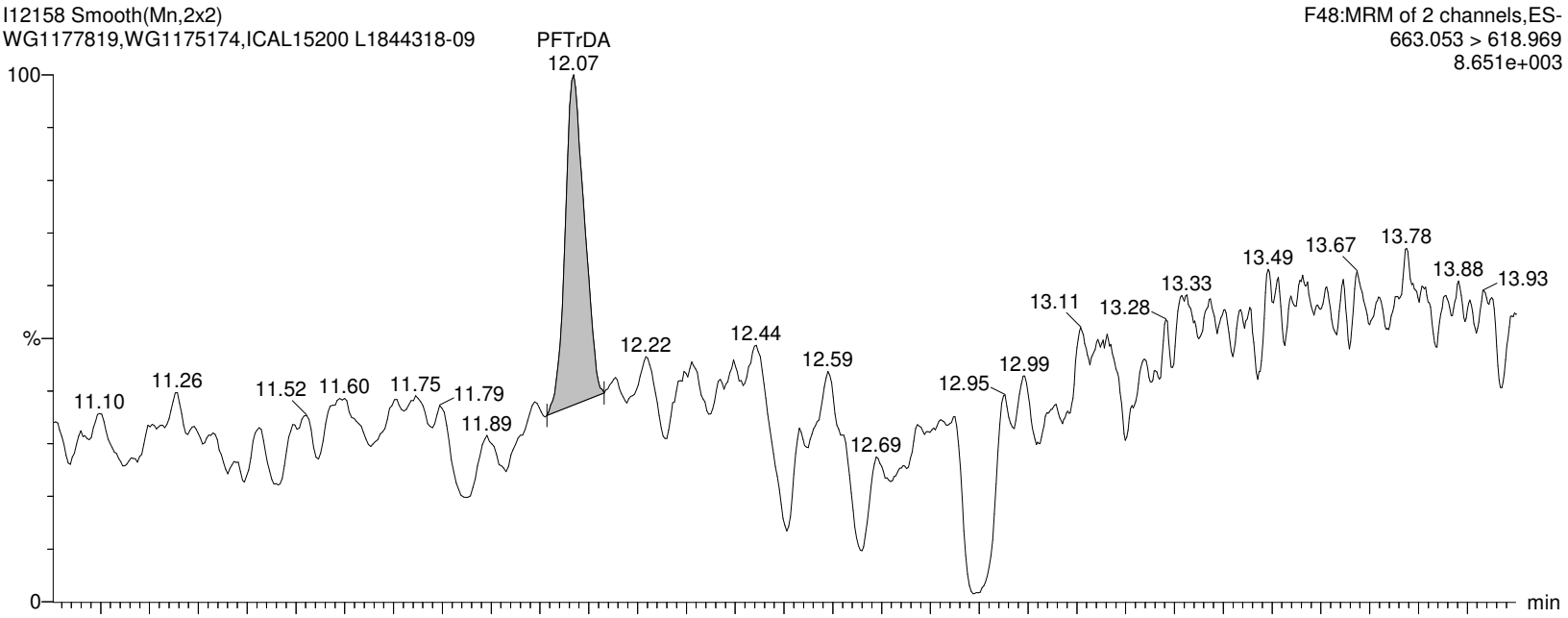

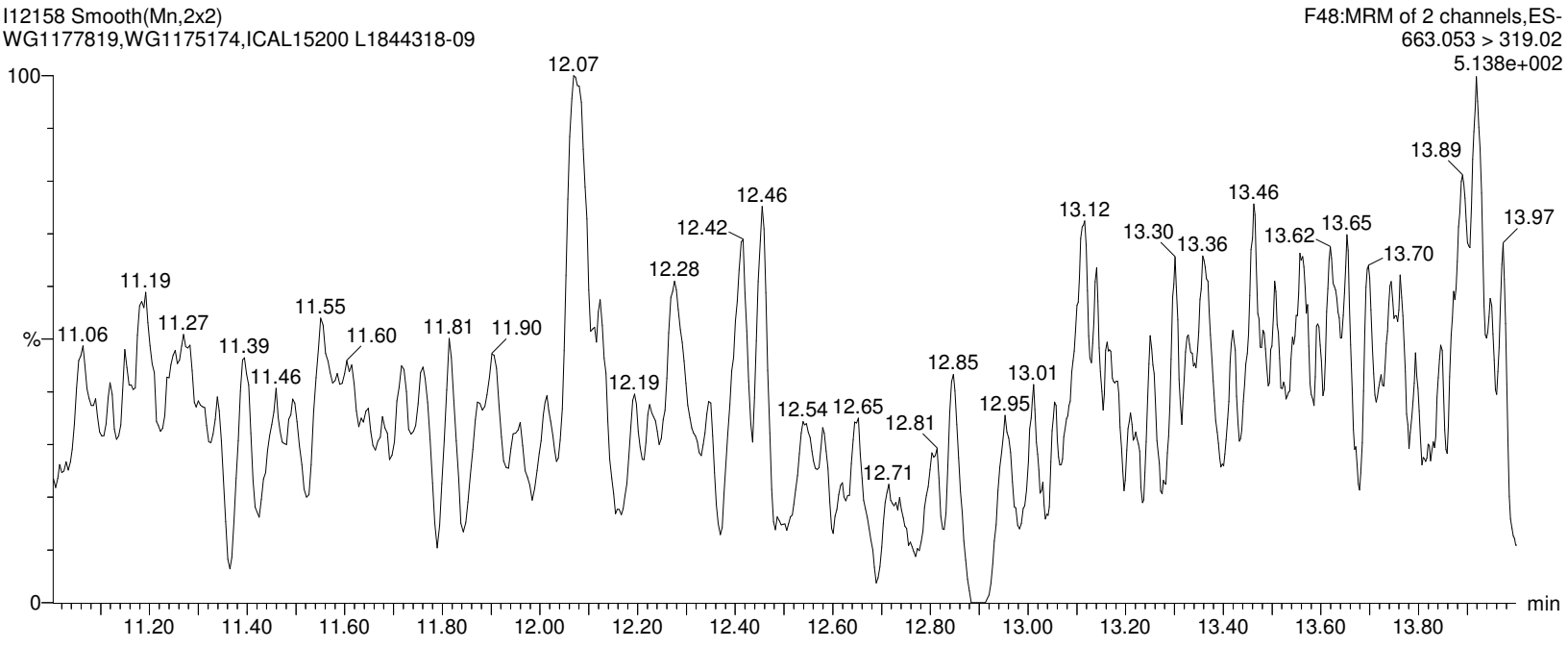

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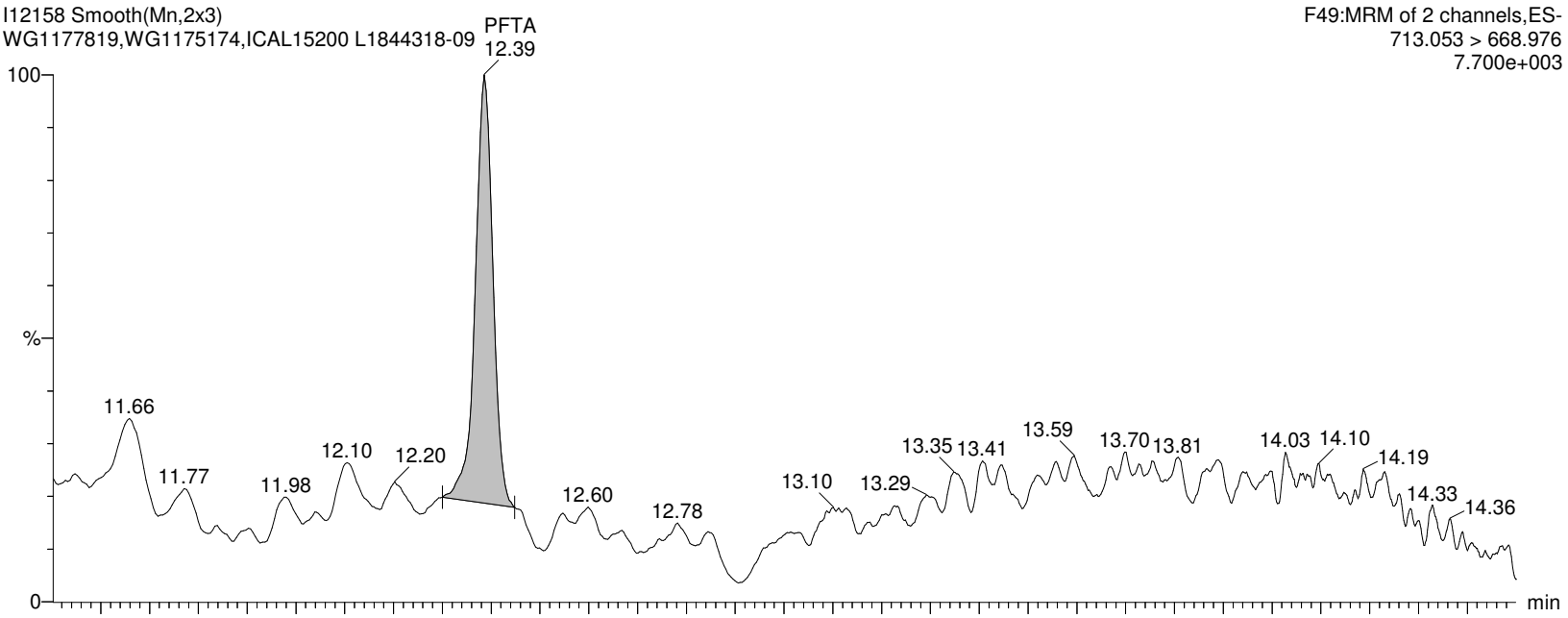

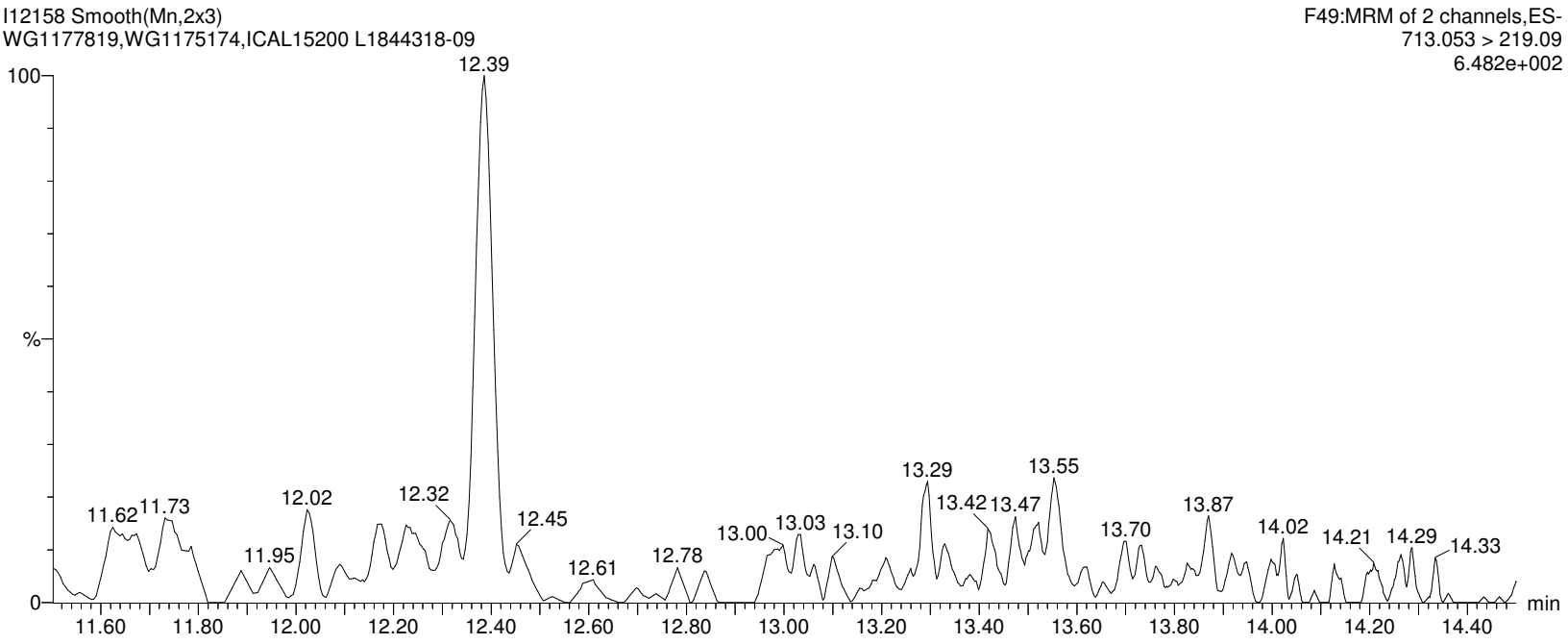

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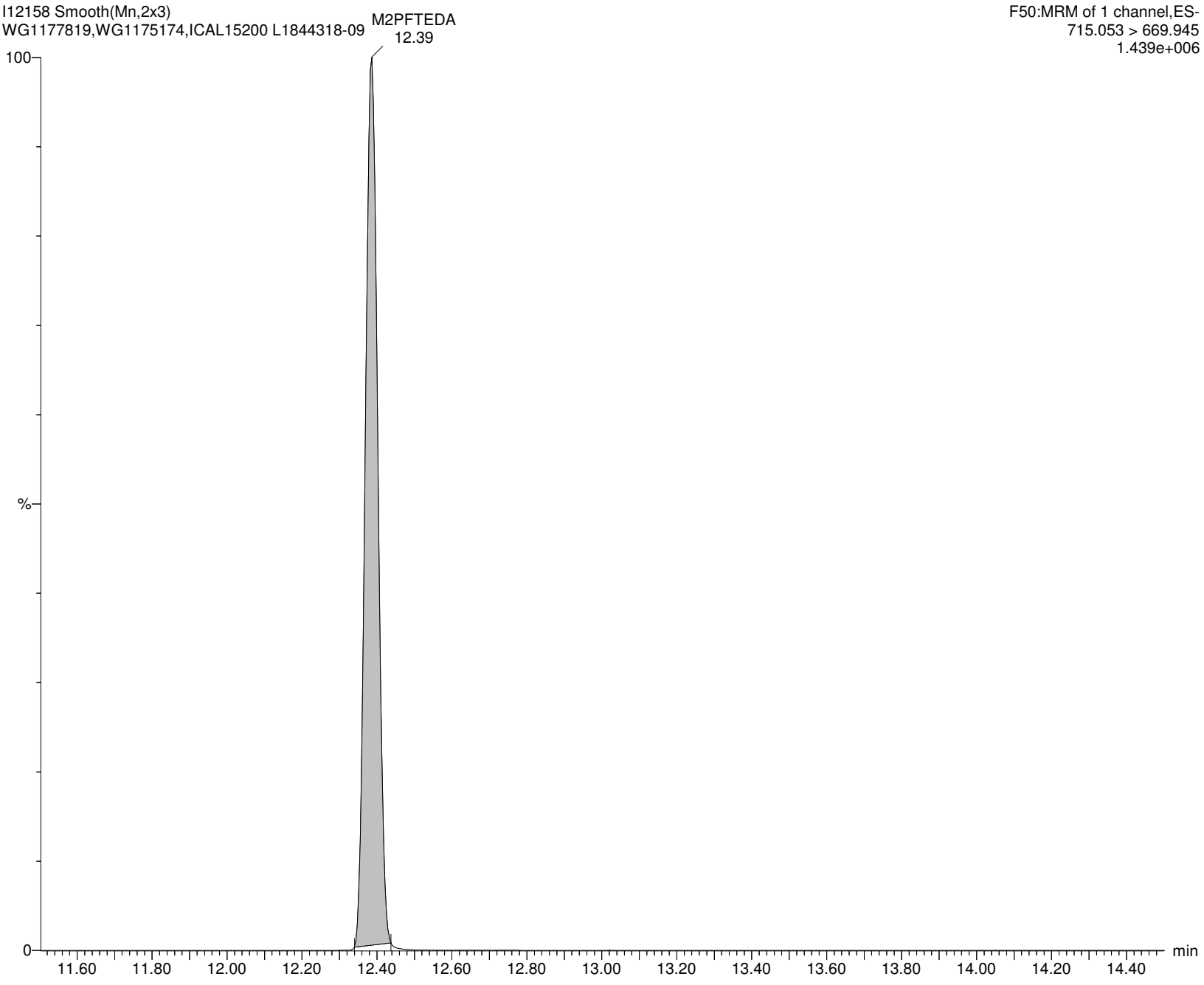
M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:04 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-10
Name: I12159
Date: 10-Nov-2018
Time: 08:47:46
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.16	215.926 > 172.122	35629		3.849		na	38.5
3	MPFBA	INT STD	2.16	216.926 > 172.137	35394		10.458		na	104.6
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	52258		11.965		na	119.7
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	10716		7.821		na	78.2
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	9828		11.564		na	115.6
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.07	317.989 > 273.045	72131		8.392		na	83.9
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	97254		9.623		na	96.2
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8140		10.696		na	107.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	513		0.054		na	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	119308		6.319		na	63.2
22	PFOA	335-67-1		412.989 > 368.9	513		0.054		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	97743		10.159		na	101.6
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	5612		7.955		na	79.6
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.03	472.053 > 426.947	91853		9.572		na	95.7
29	br-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
31	PFOS	1763-23-1		498.989 > 80.294	0		ND		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	10991		6.785		na	67.8
33	M8PFOS	INT STD	10.08	507.053 > 80.294	9836		9.597		na	96.0
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	92875		6.247		na	62.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	85185		10.158		na	101.6
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2546		6.145		na	61.5
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Time: 08:47:46
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	8750		9.679		na	96.8
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	85		0.096		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	82528		11.758		na	117.6
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	7930		2.651		na	26.5
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	6548		7.509		na	75.1
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	82		0.122	2.64	YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	78296		9.928		na	99.3
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	61663		10.556		na	105.6

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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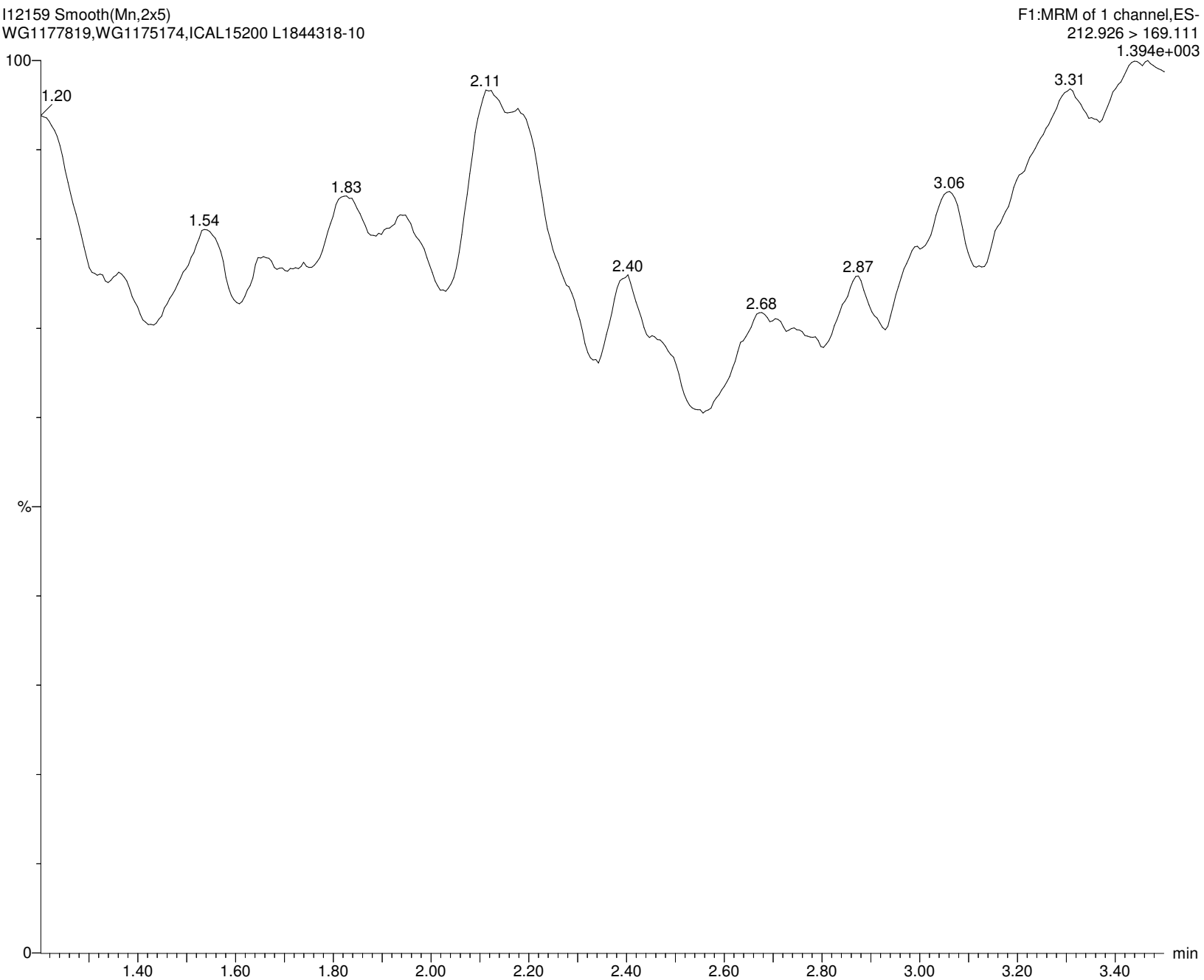

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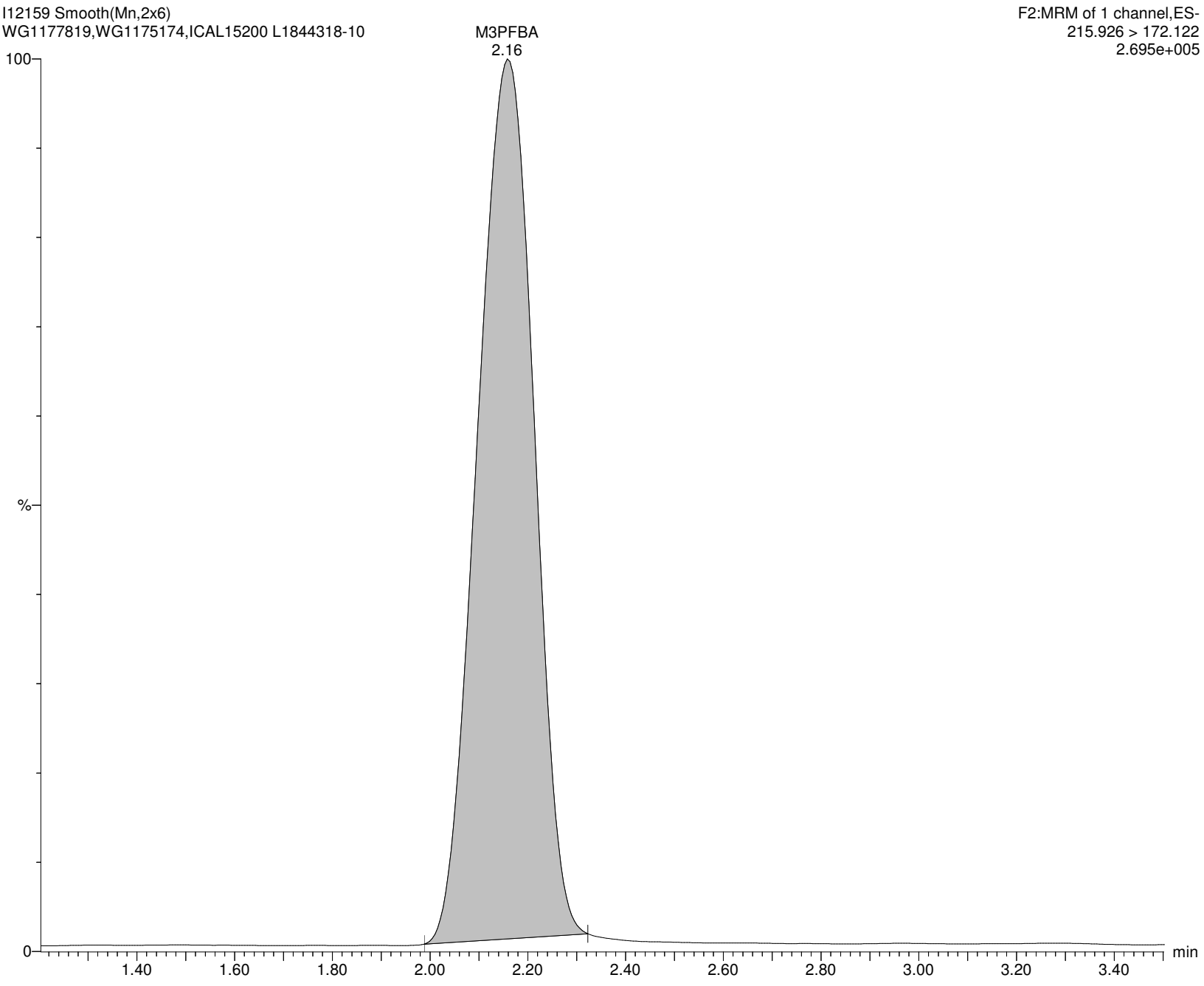

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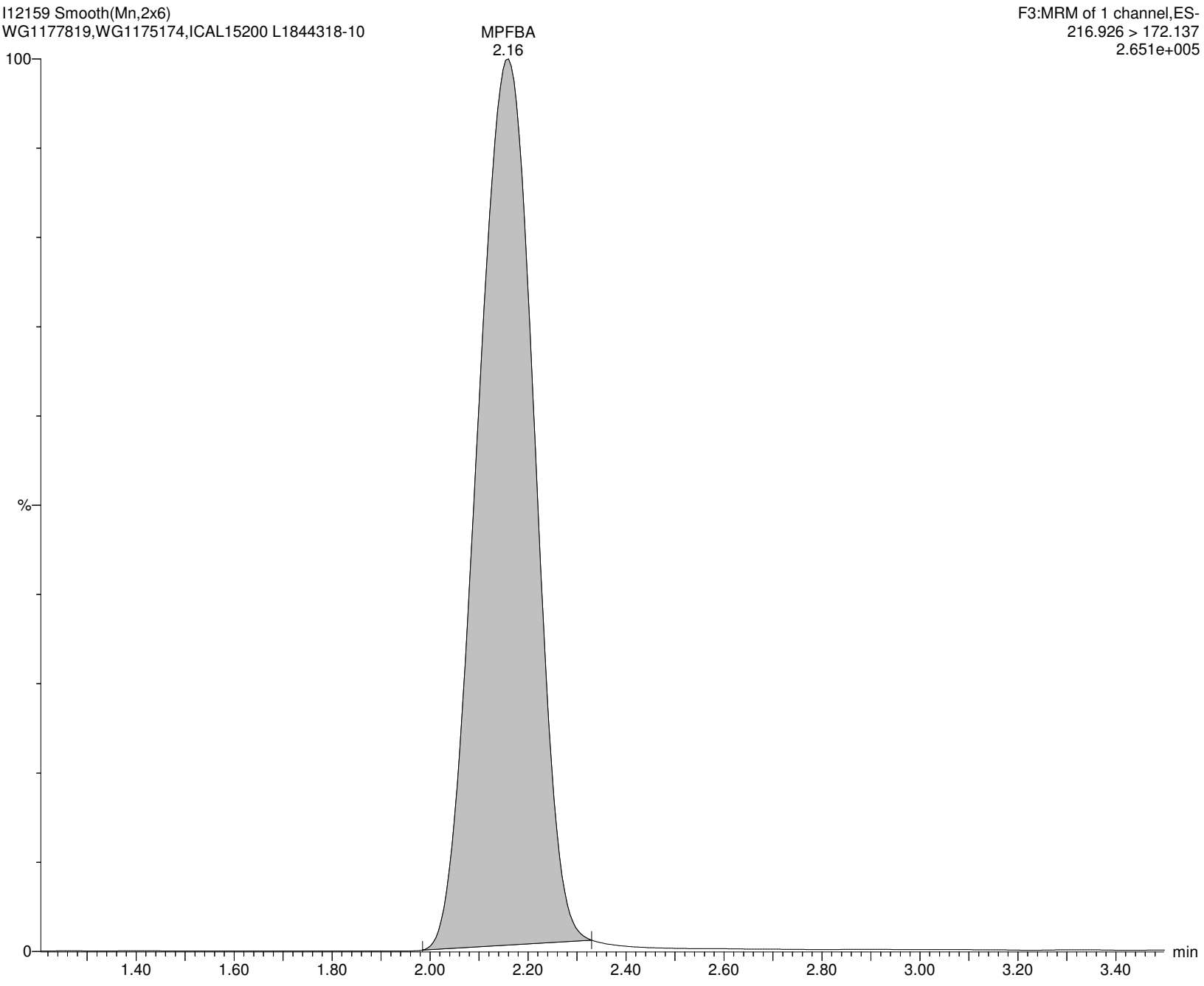

all concentration units in (ng/mL)

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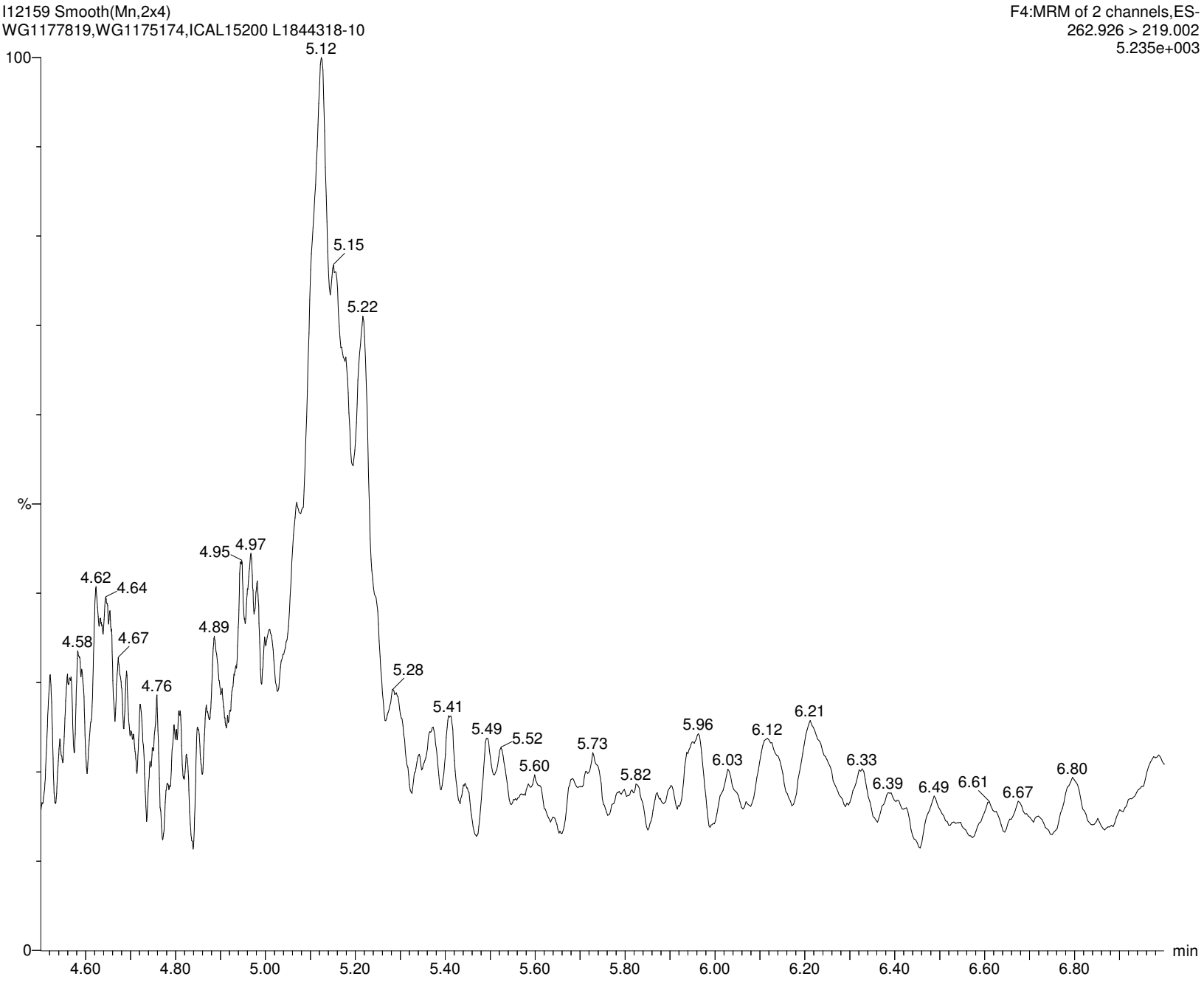

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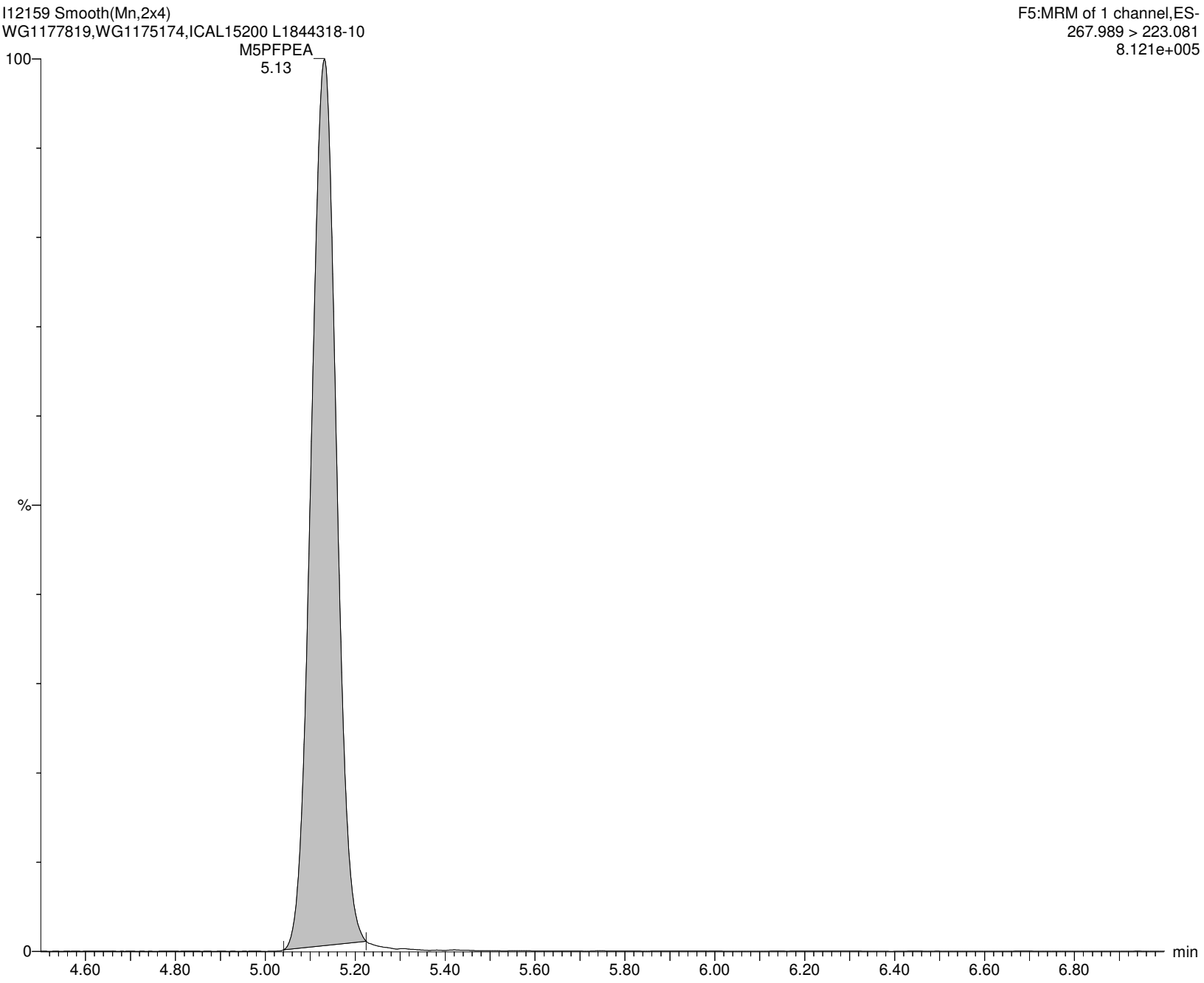

all concentration units in (ng/mL)

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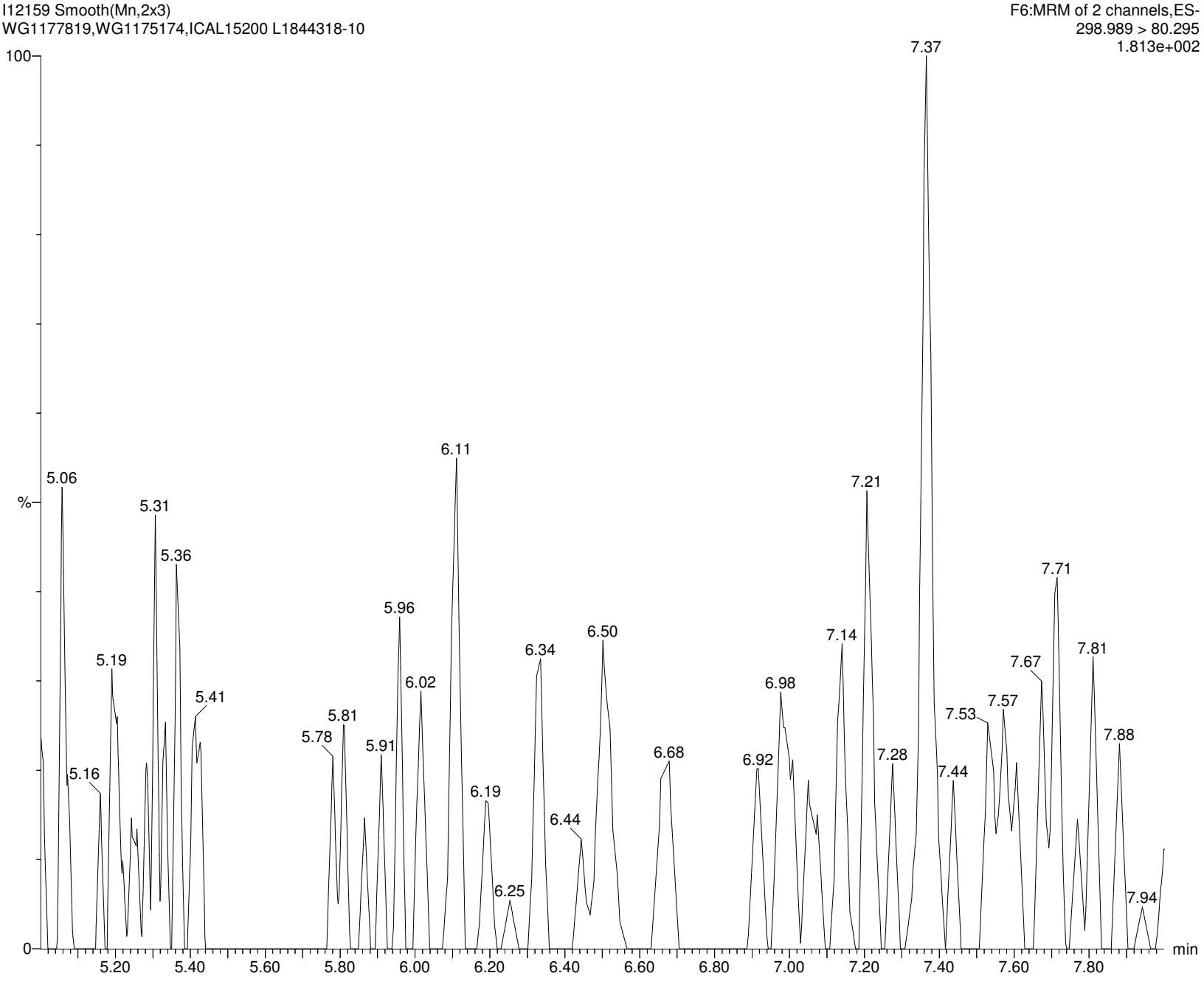

all concentration units in (ng/mL)

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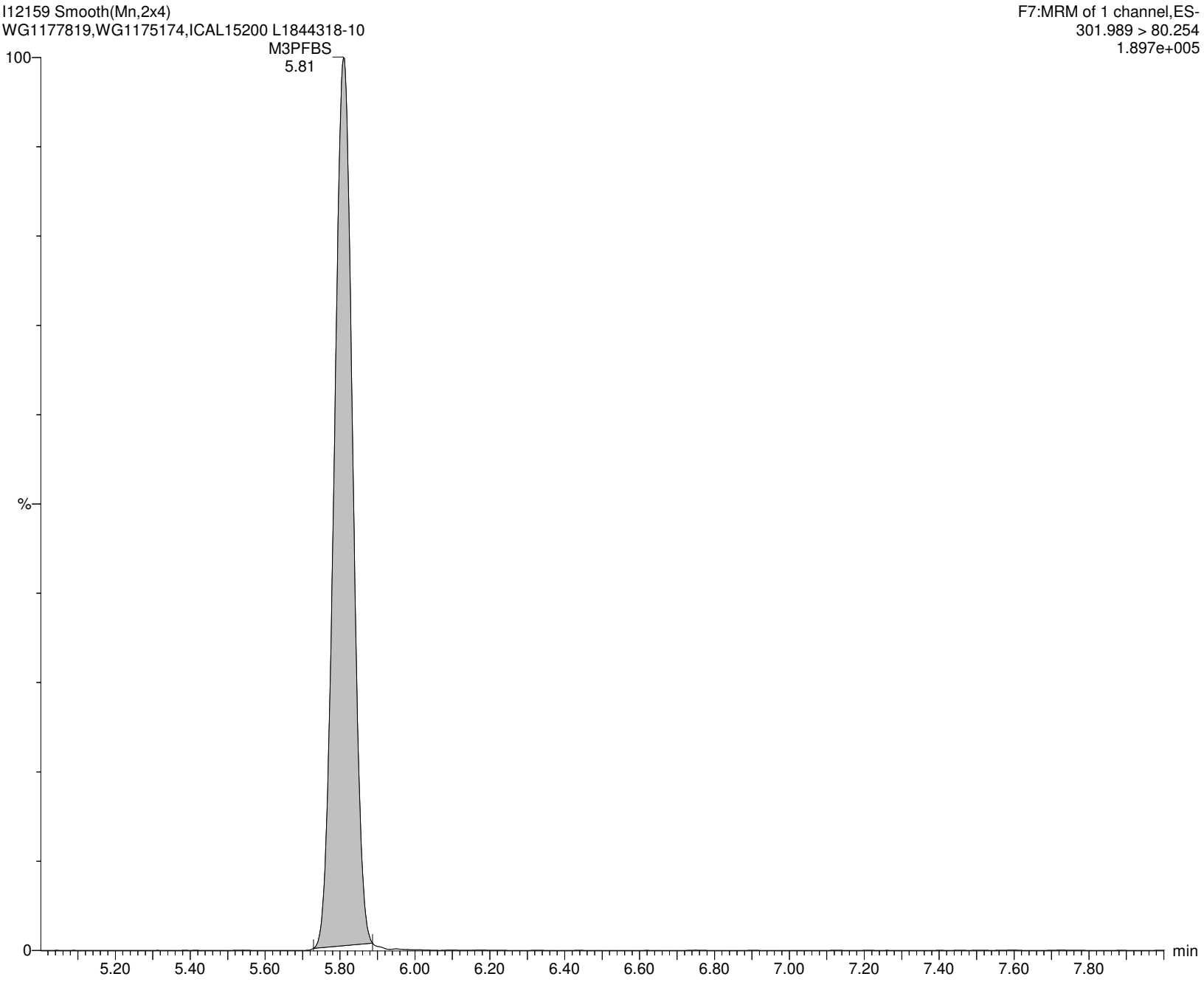

all concentration units in (ng/mL)

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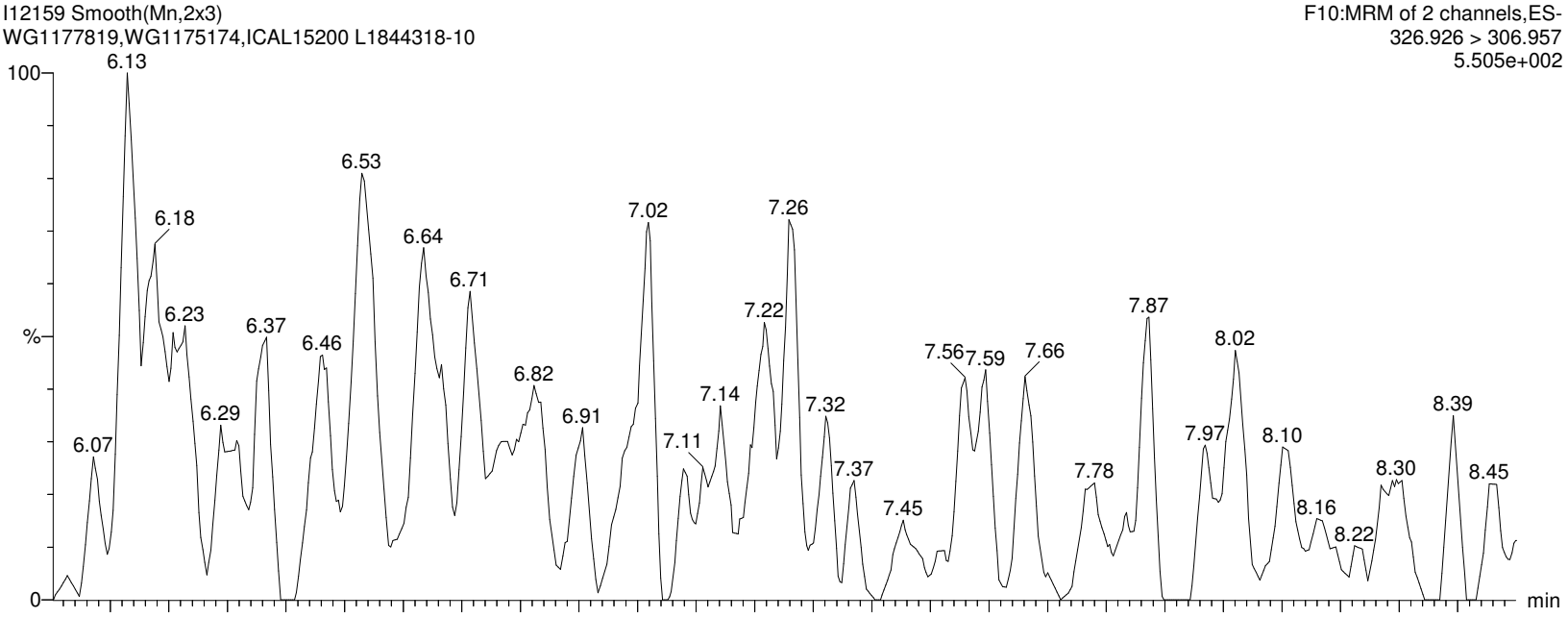

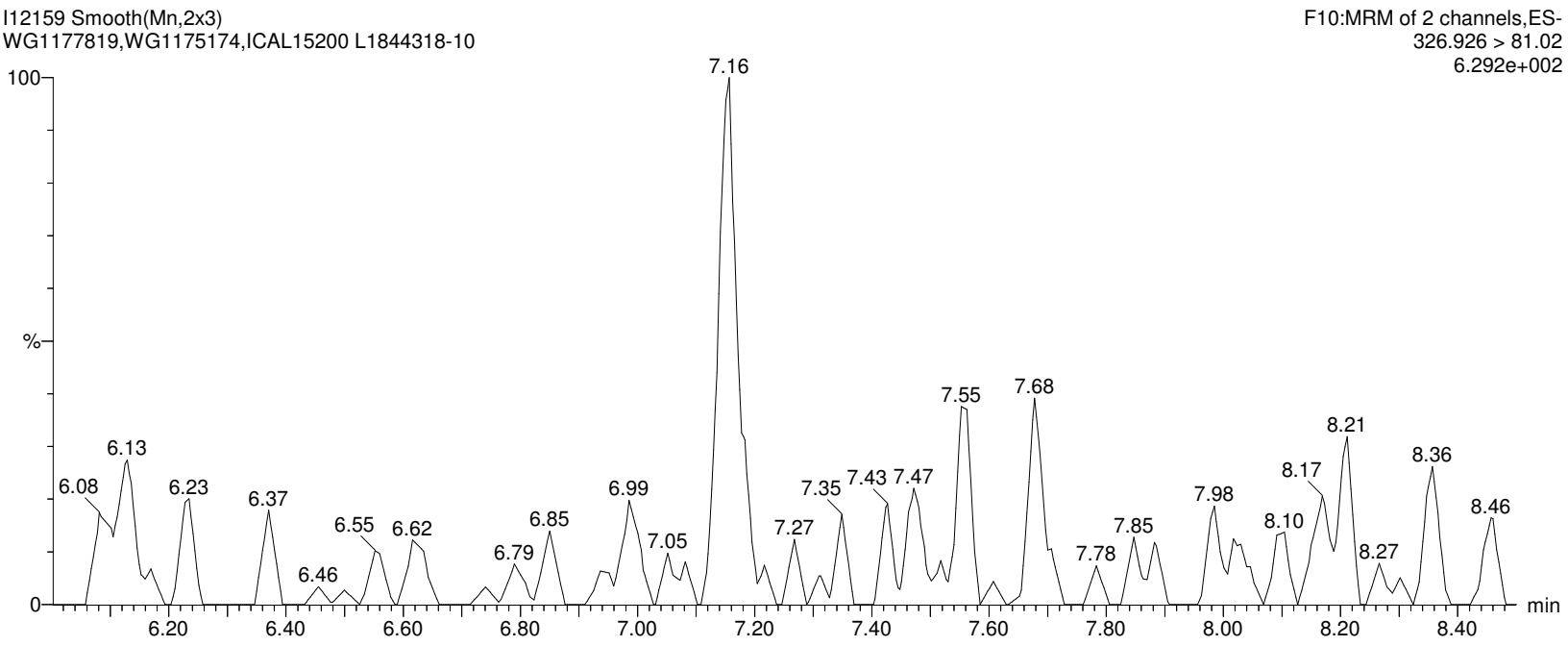

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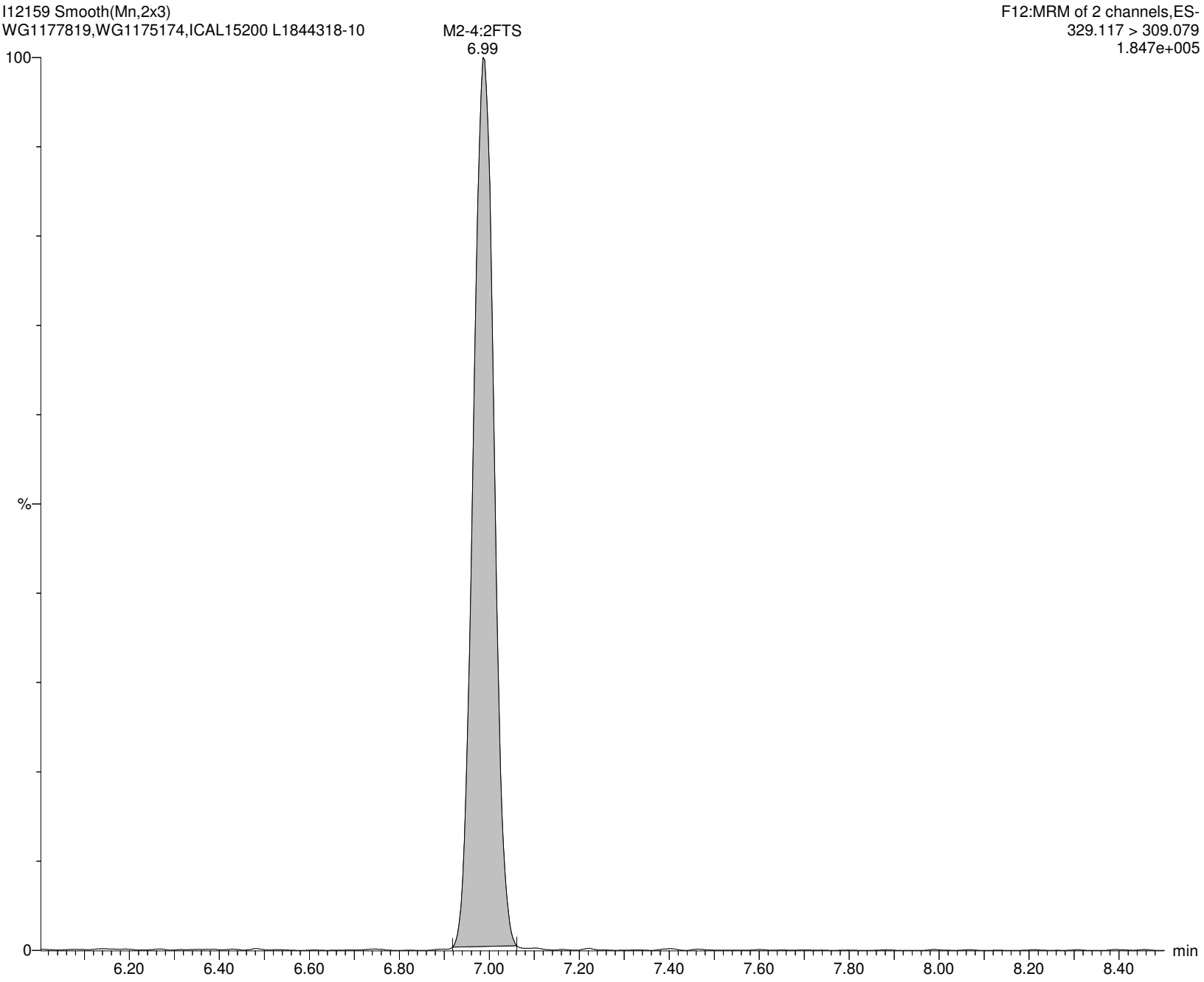
M2-4:2FTS



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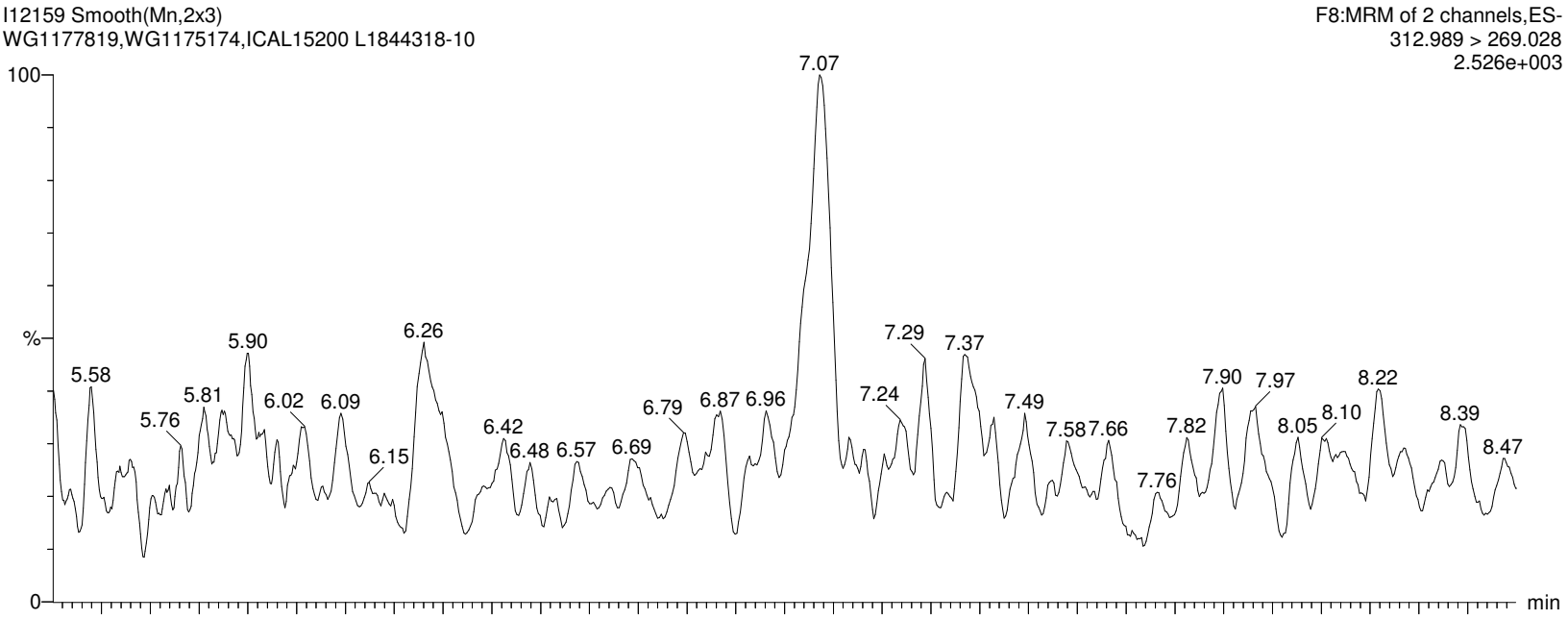
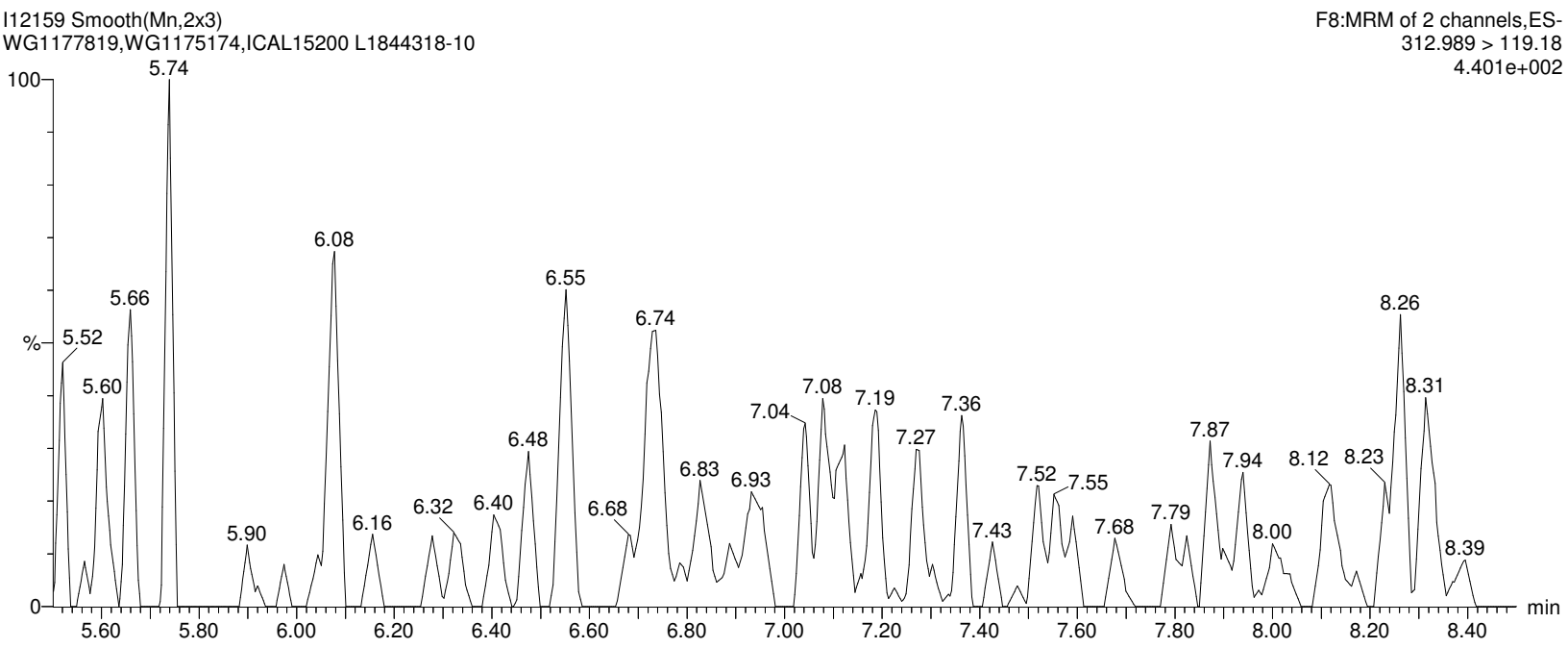
PFHxA





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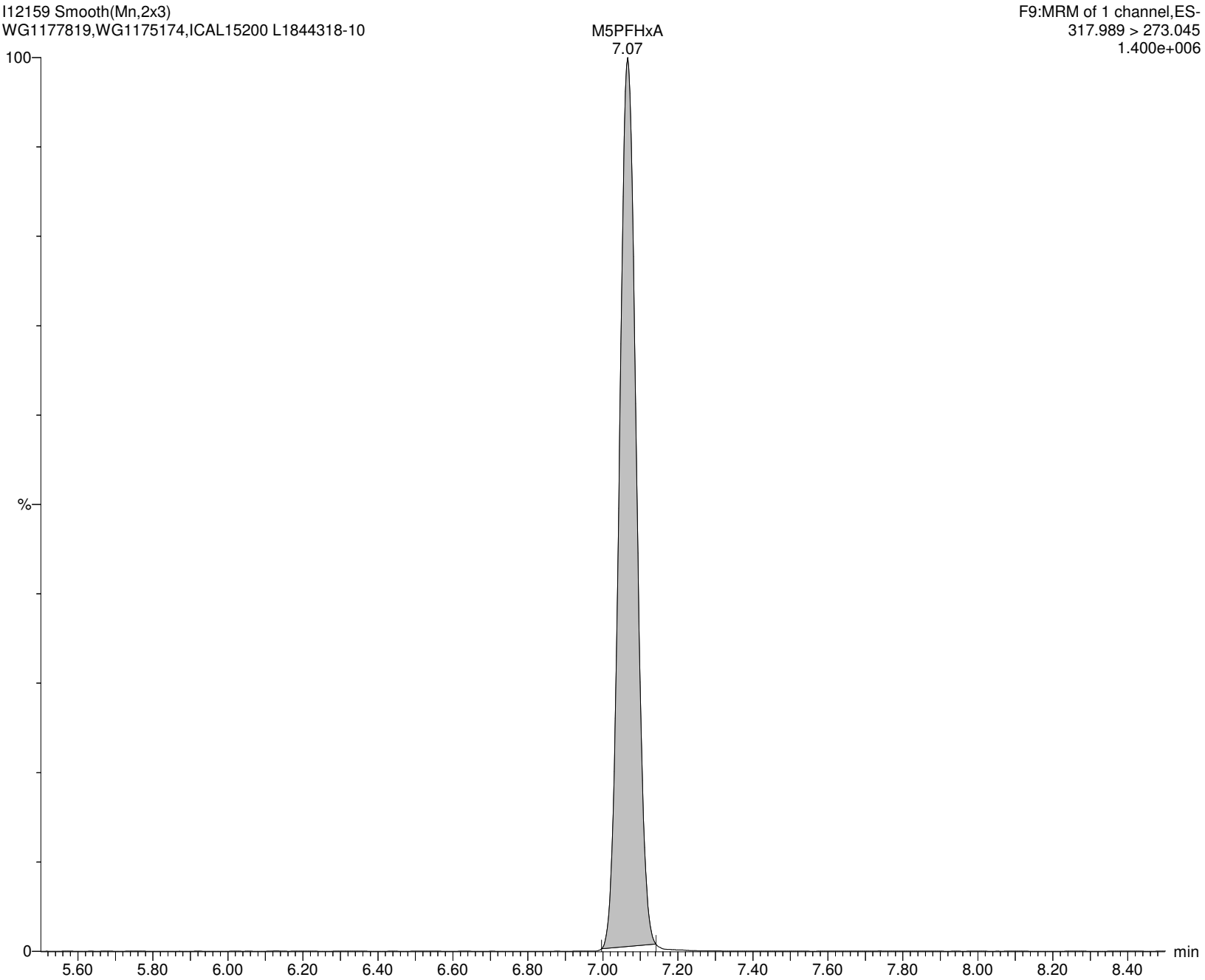
M5PFHxA



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Vial: 1:D,3
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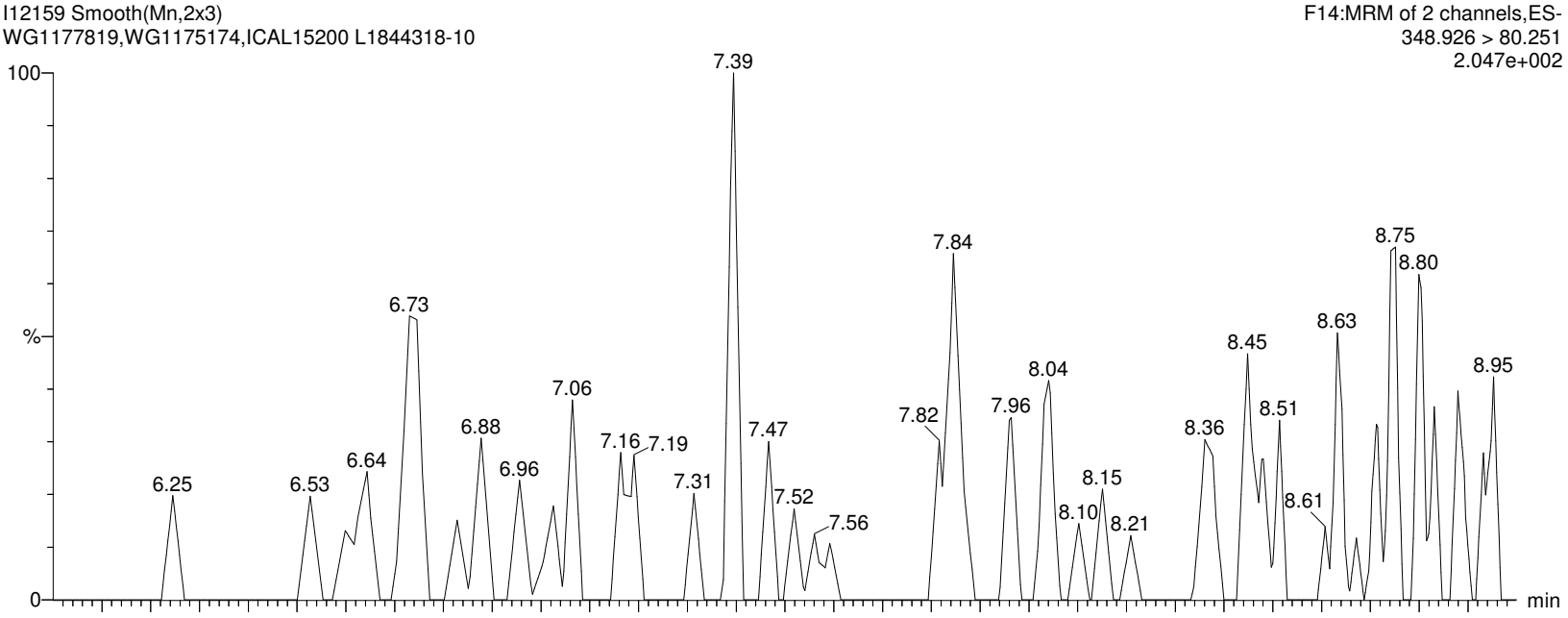

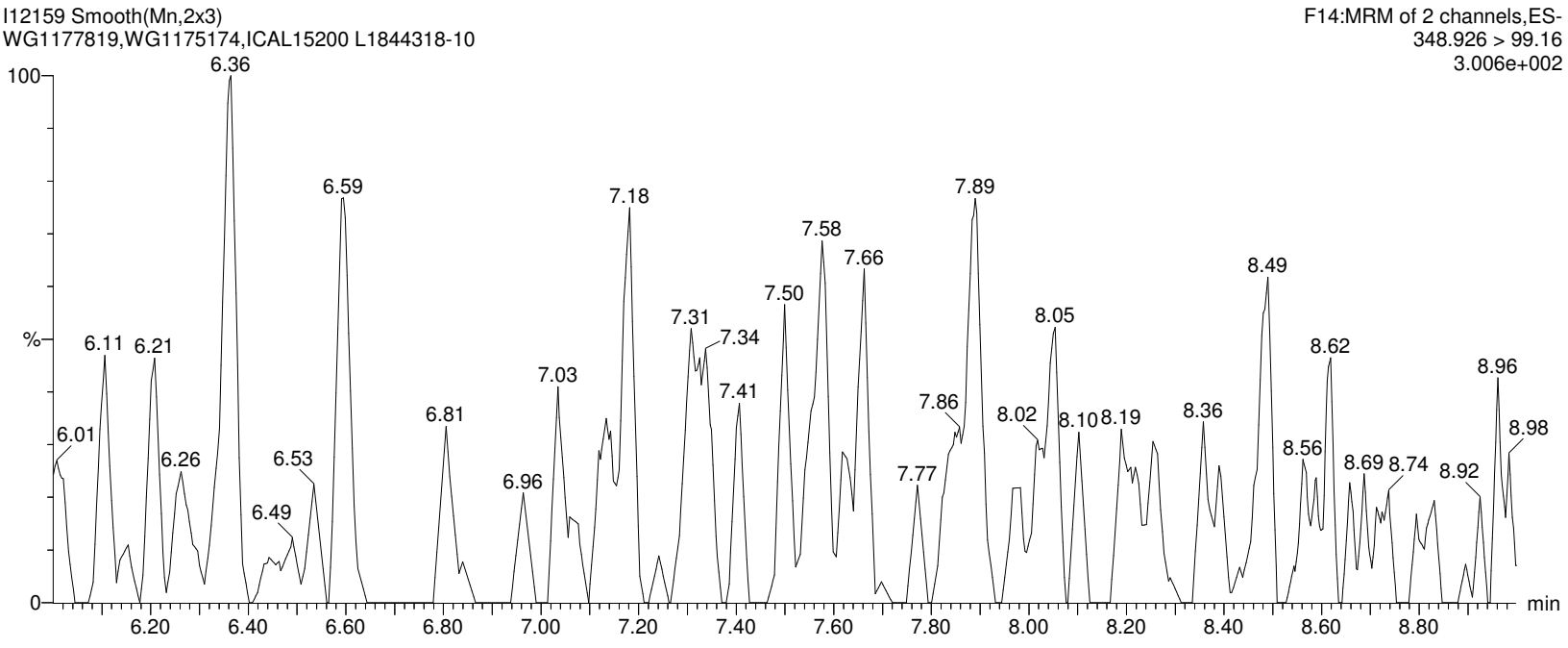

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:04 Eastern Standard Time

Name: I12159
ID: L1844318-10
Date: 10-Nov-2018
Time: 08:47:46
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEA0276
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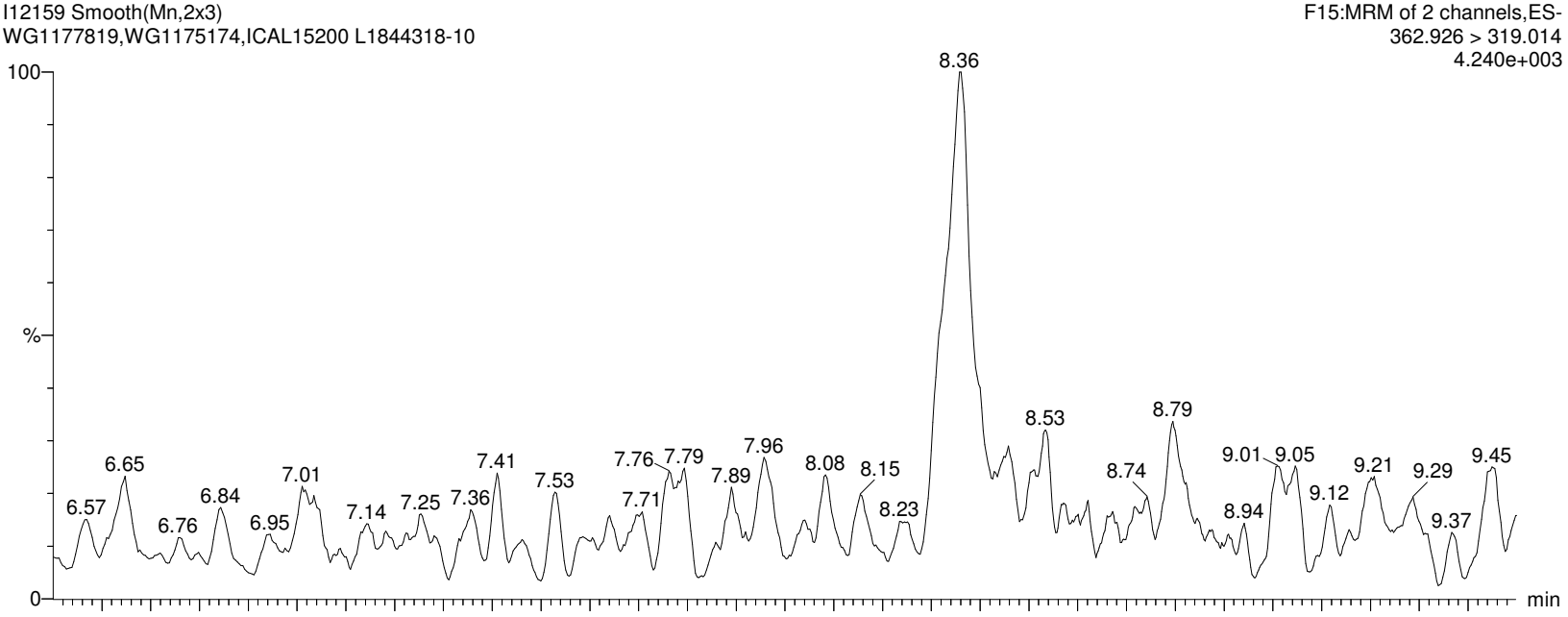

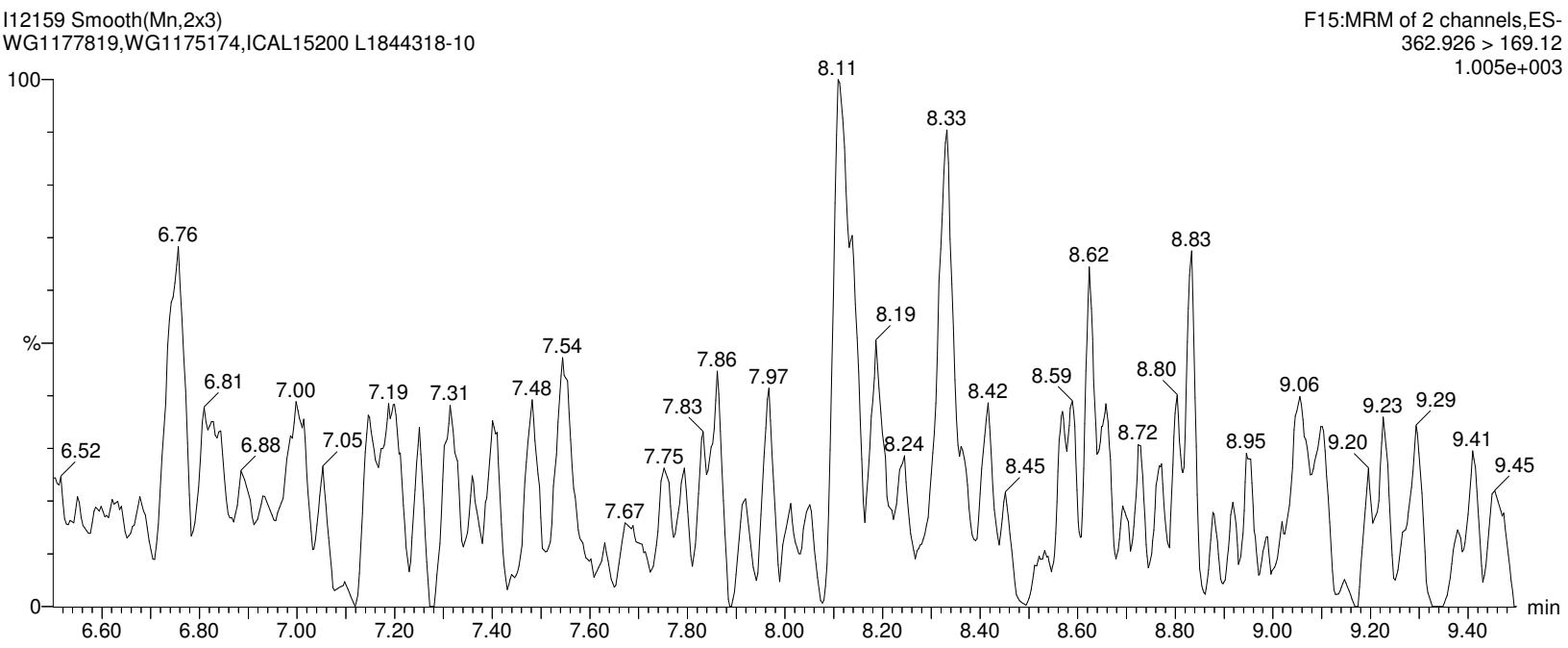

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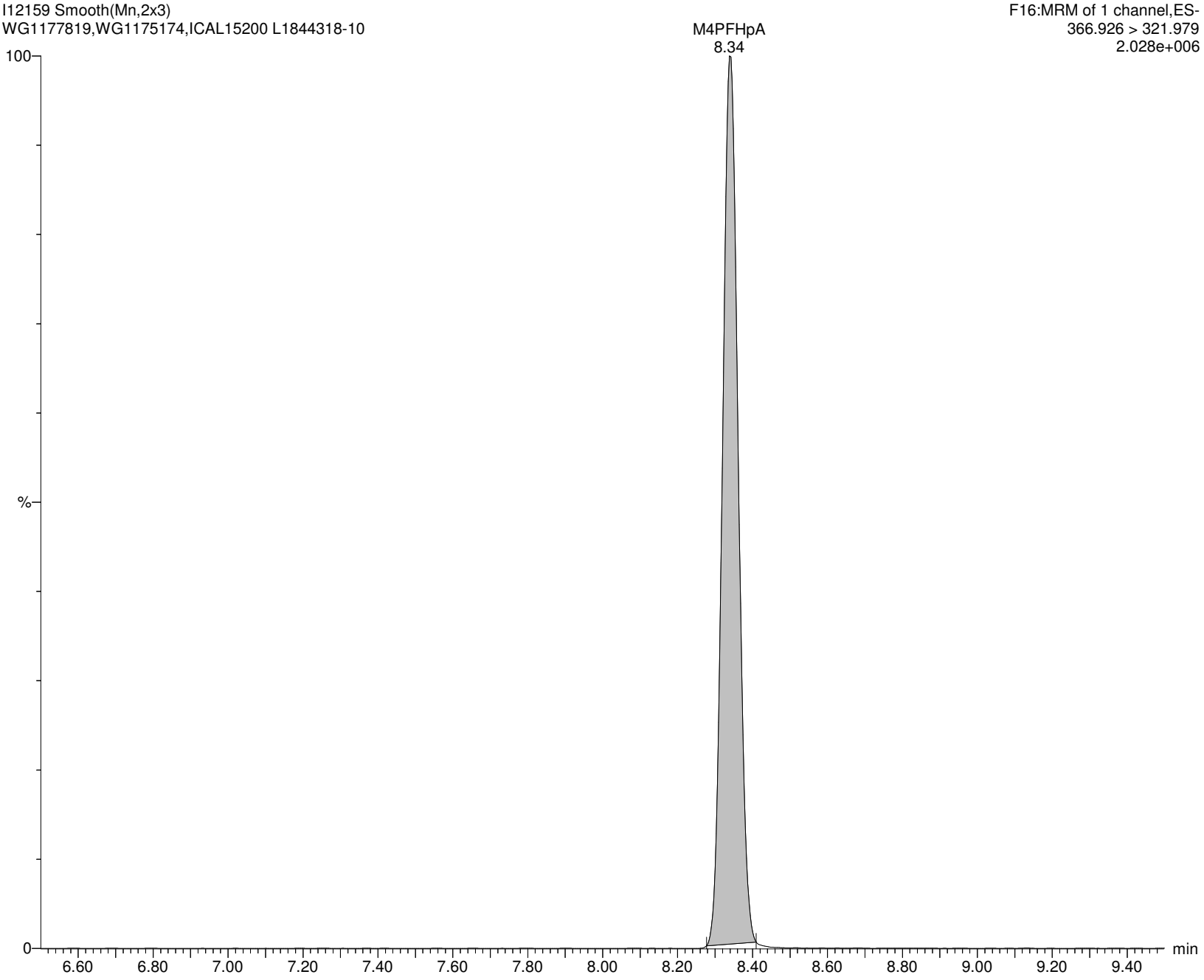

all concentration units in (ng/mL)

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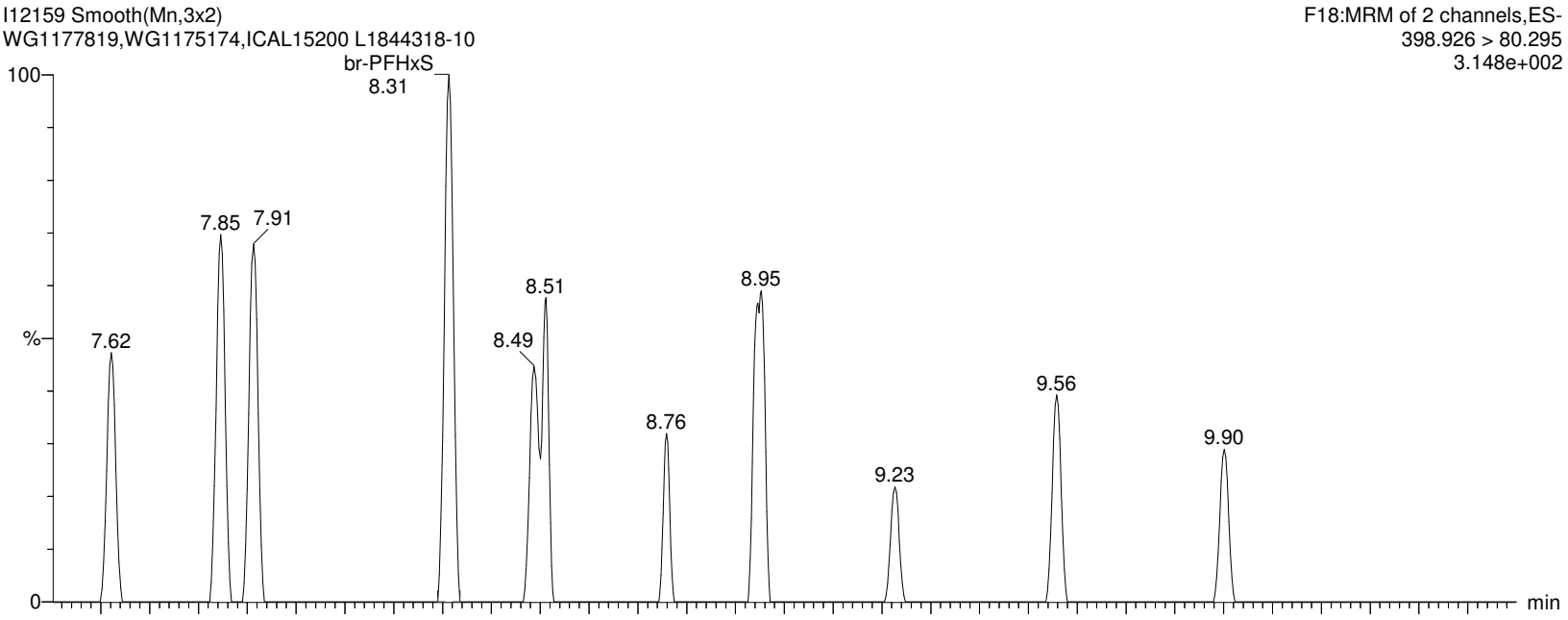

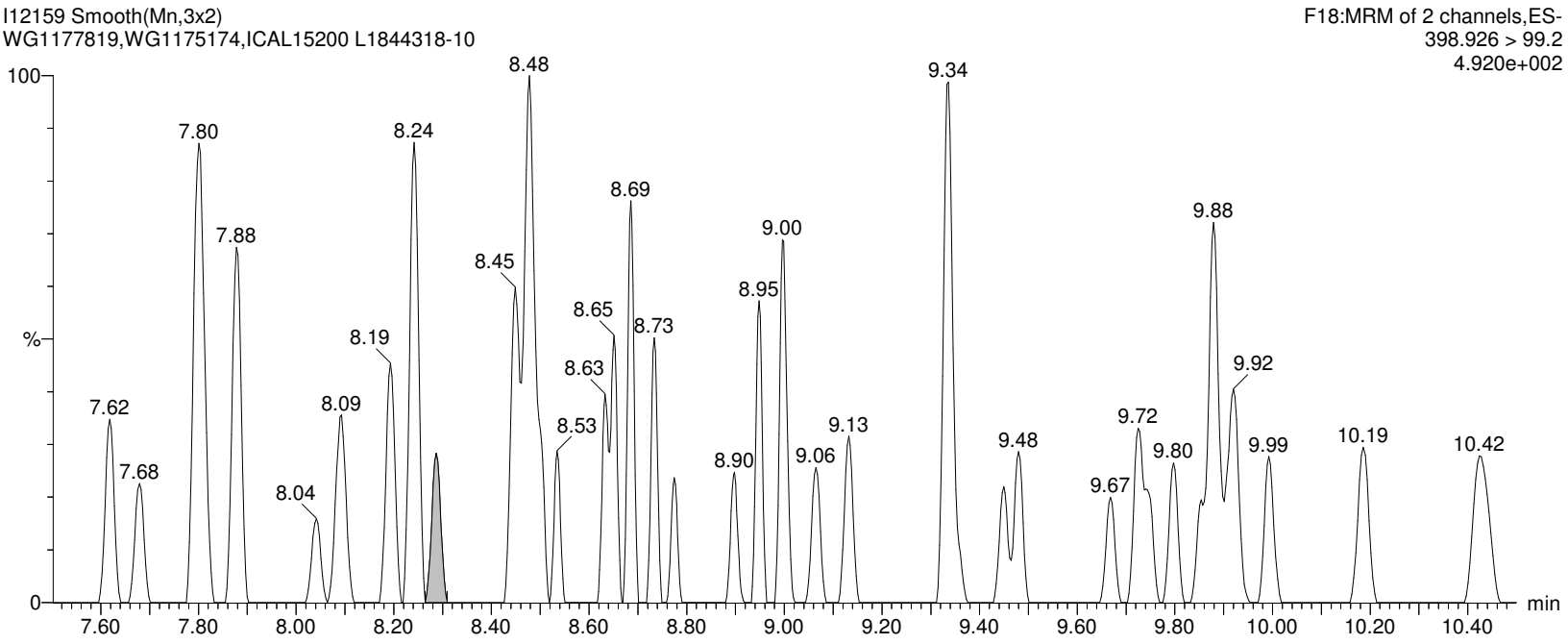

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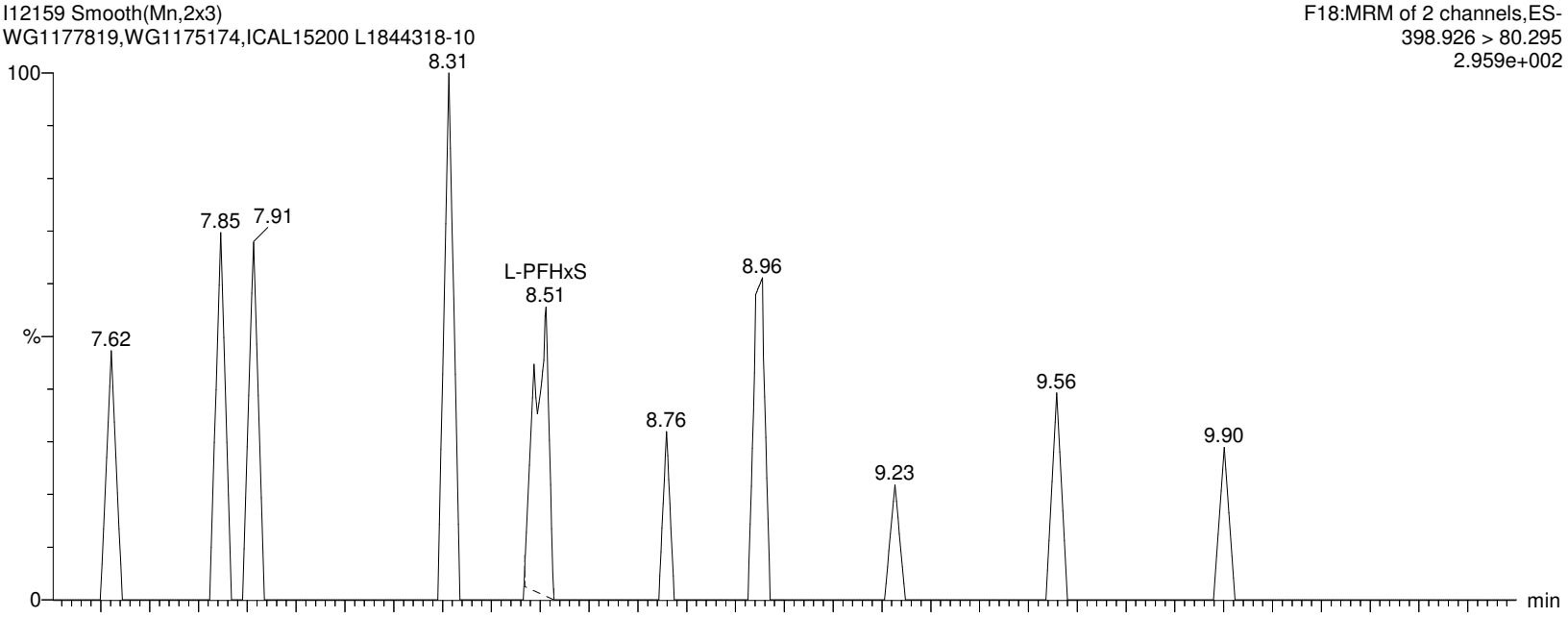

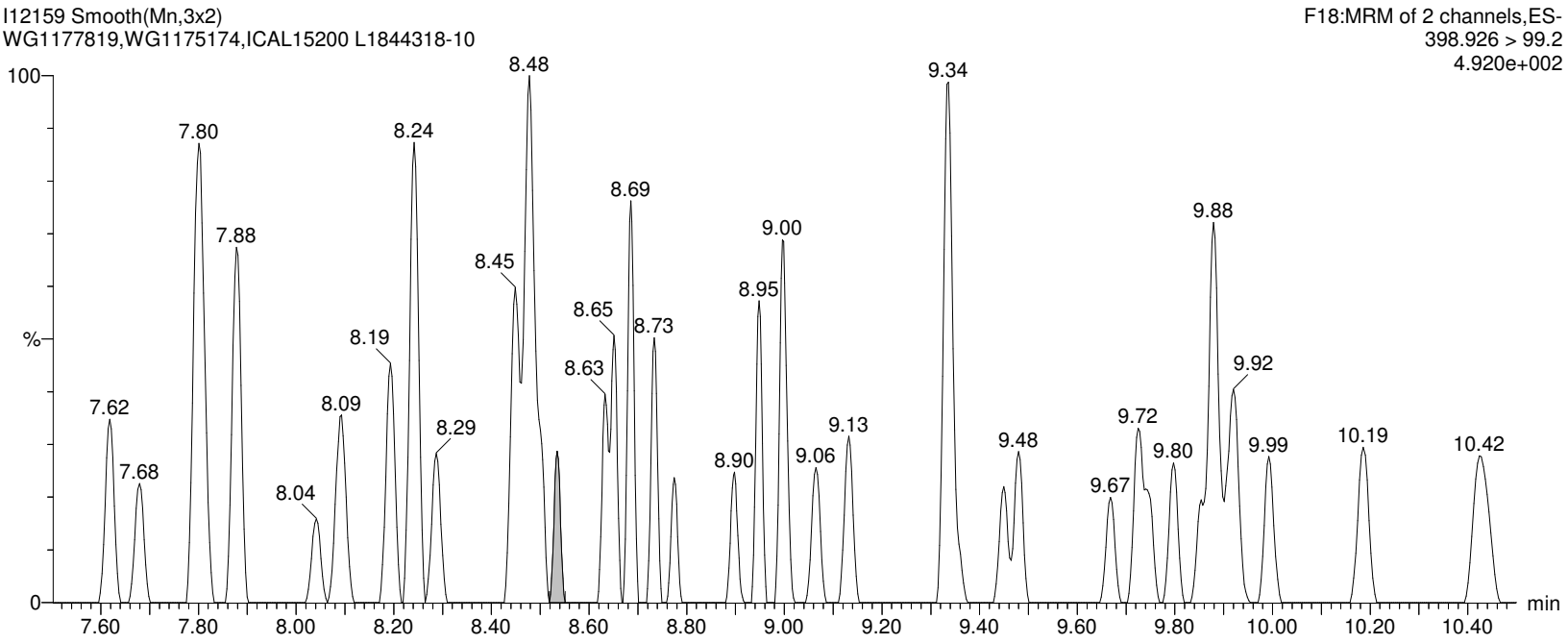

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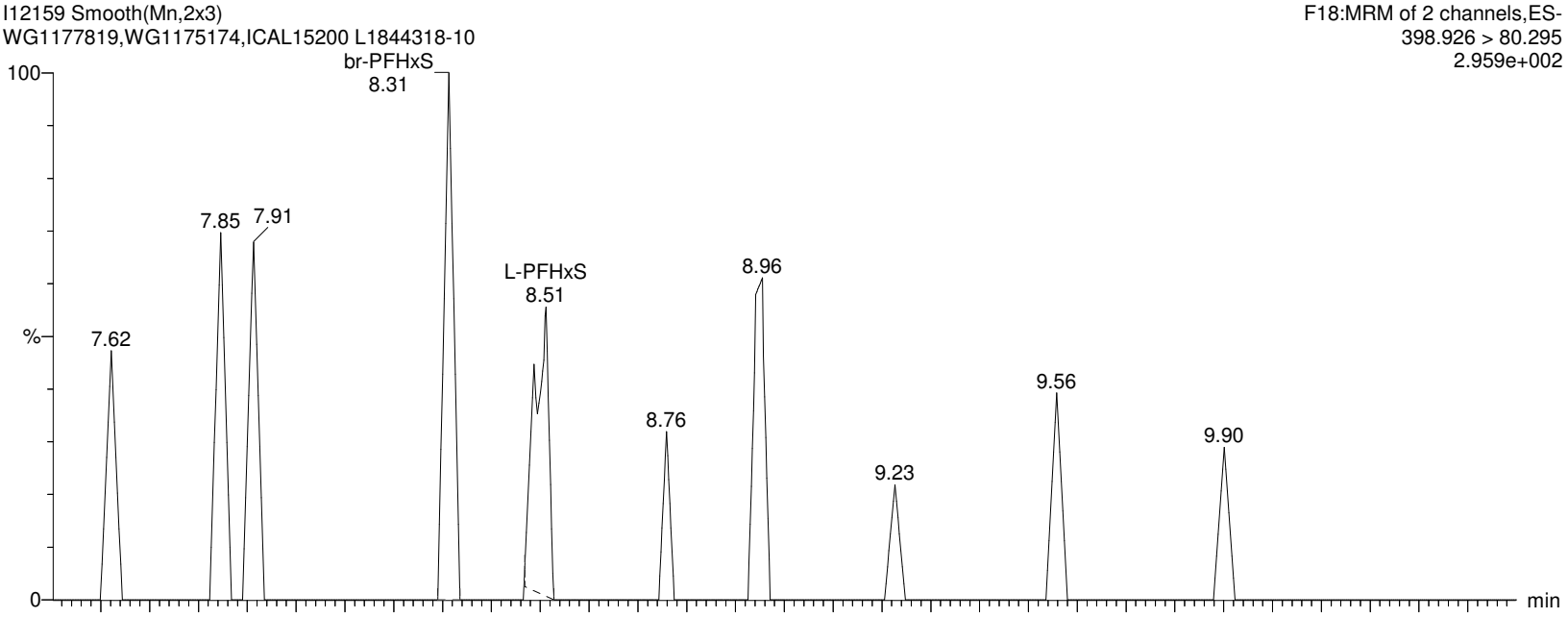

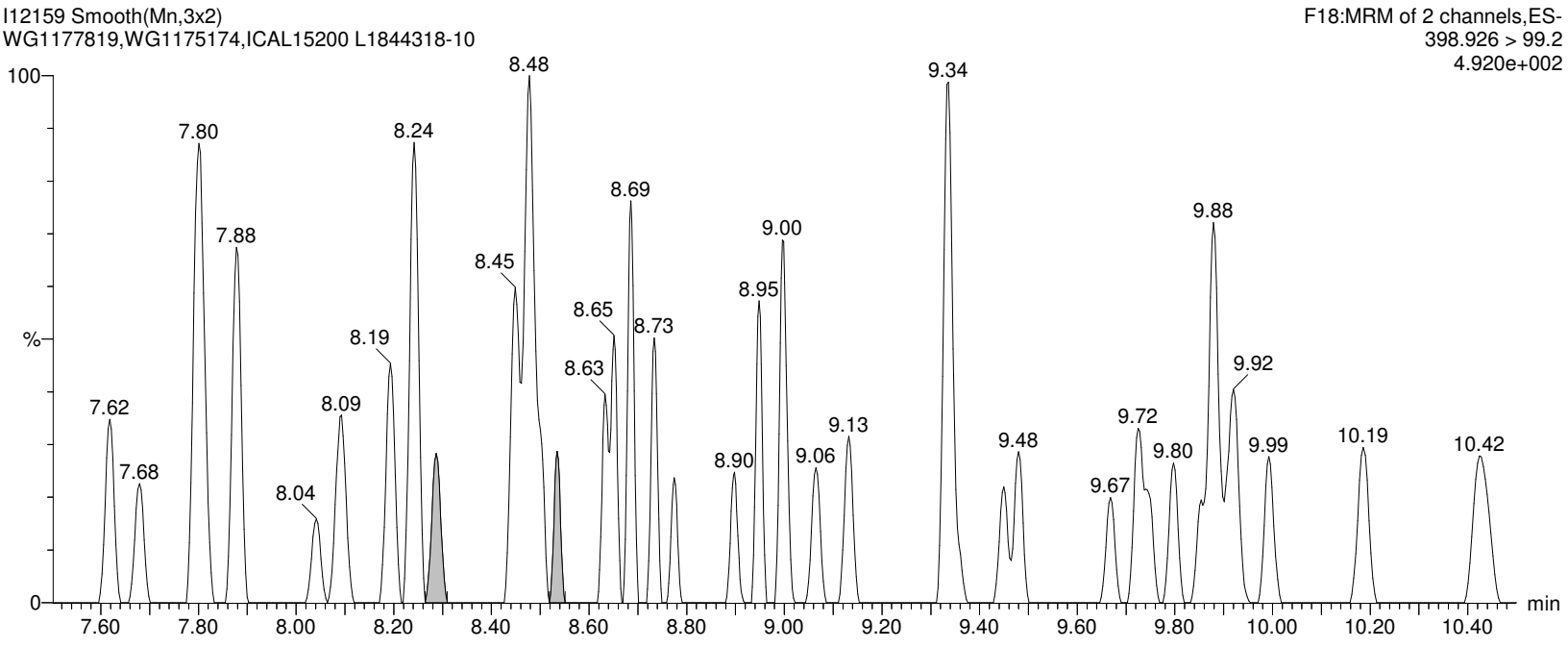

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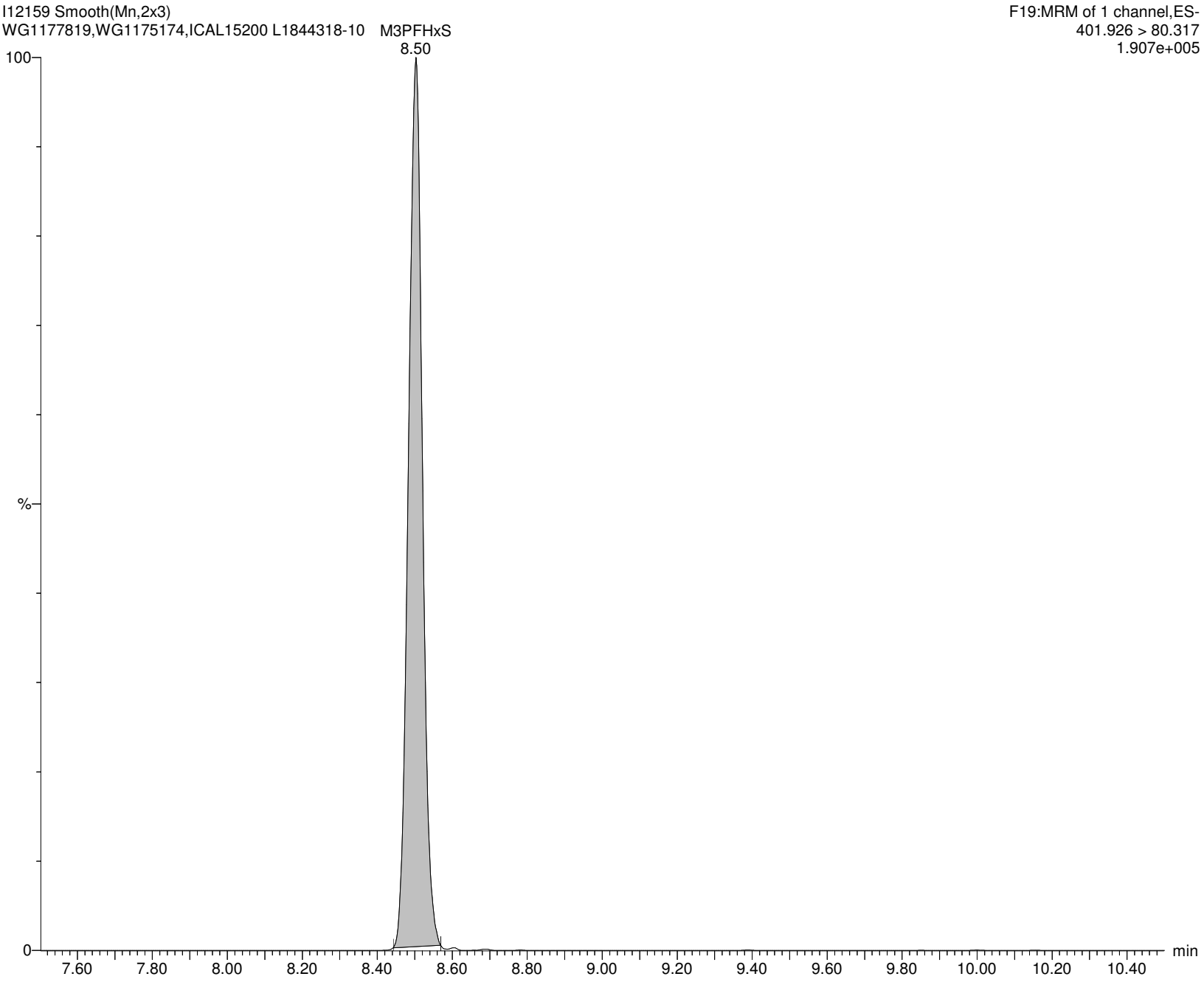

all concentration units in (ng/mL)

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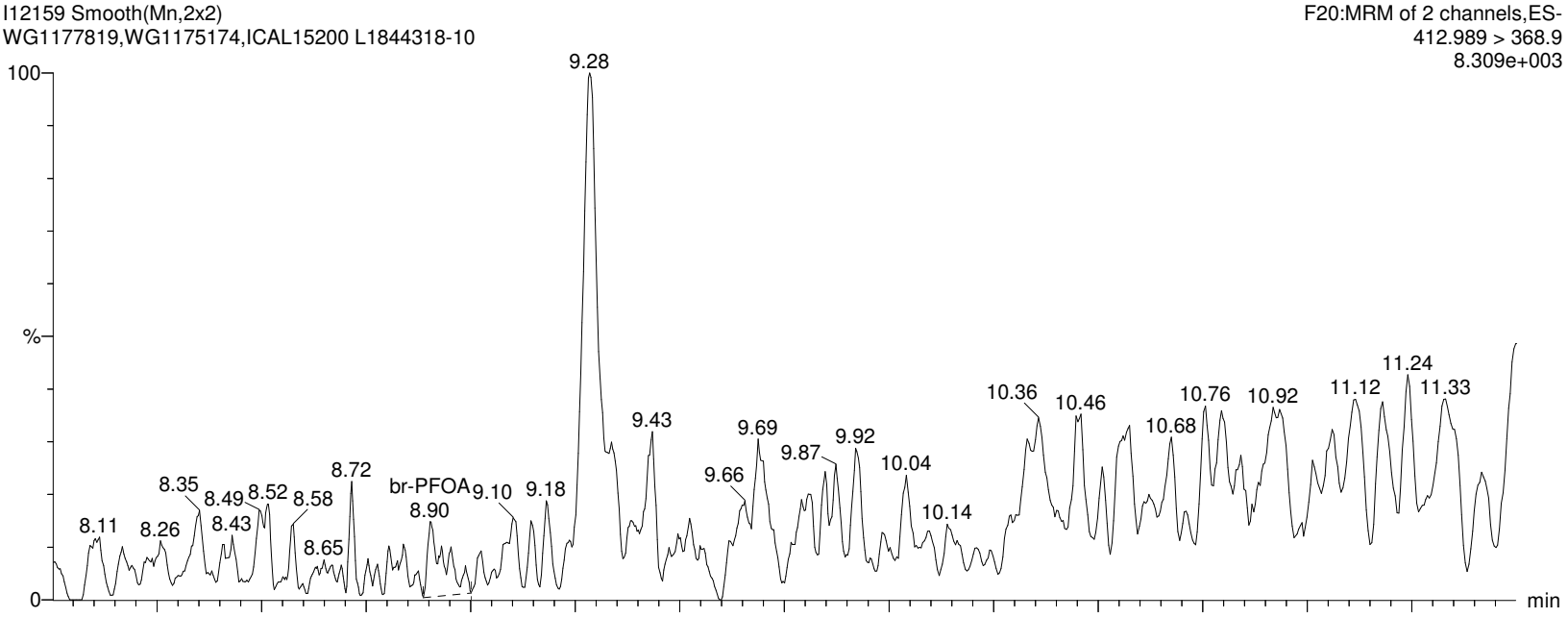

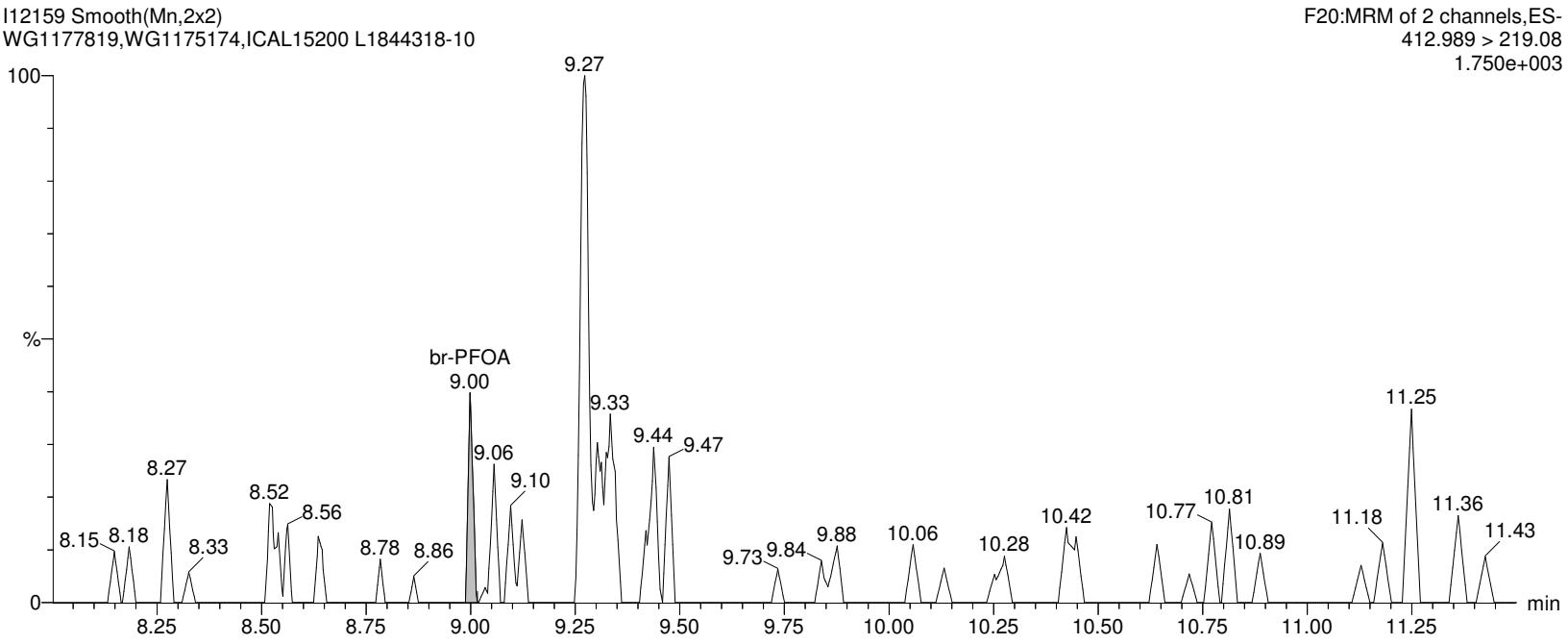

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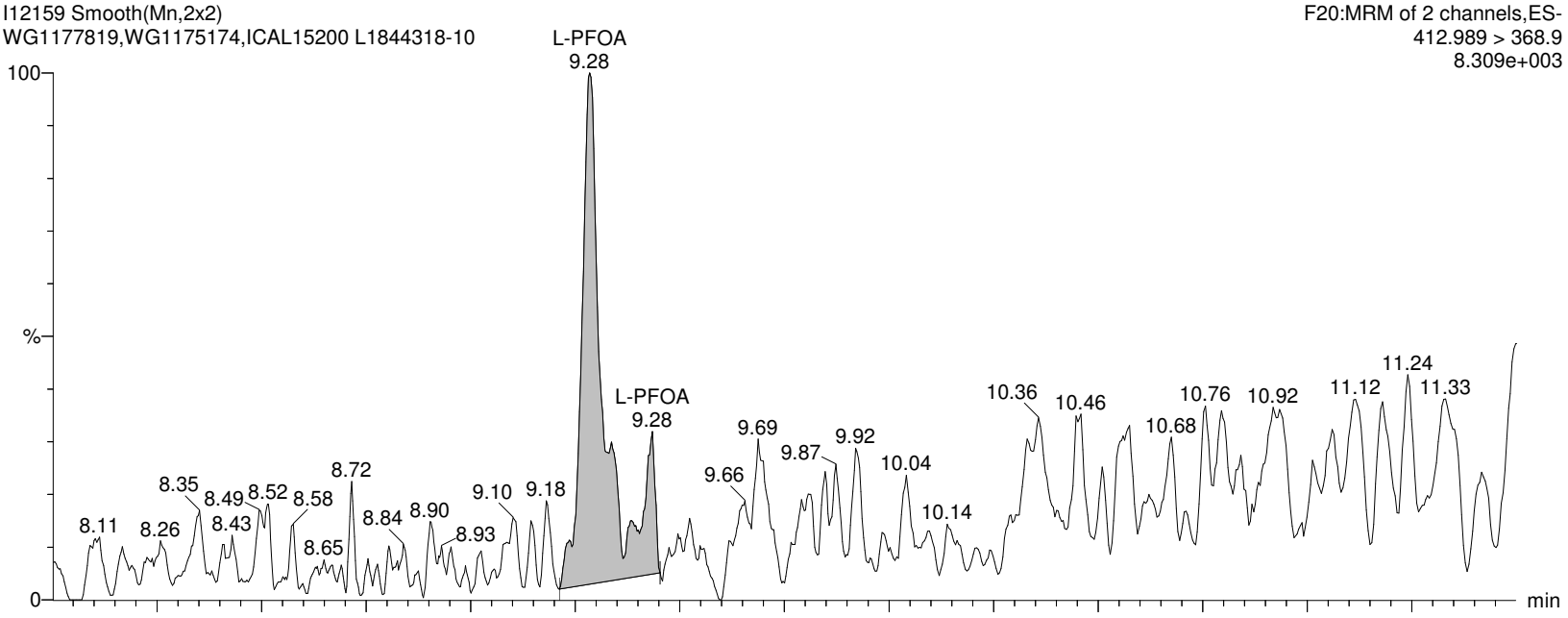

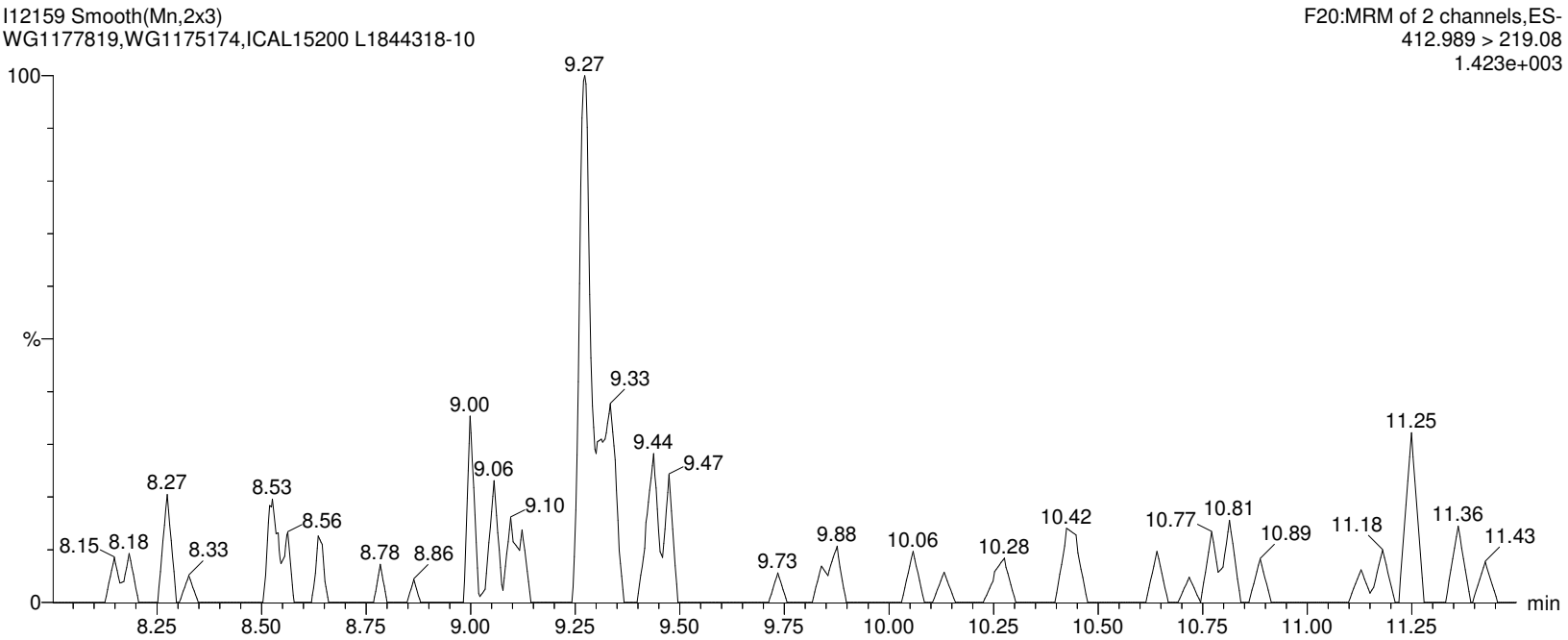

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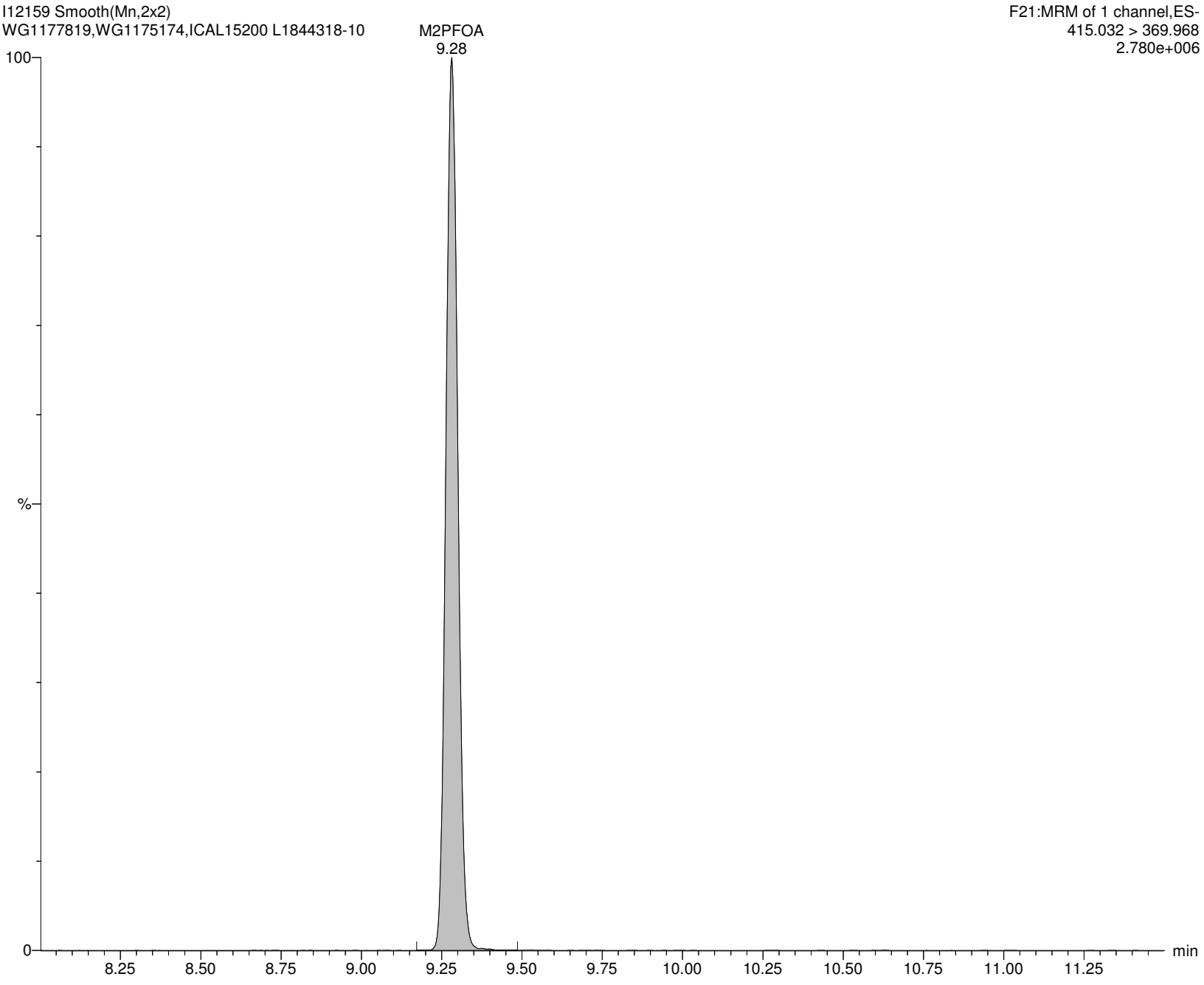

all concentration units in (ng/mL)

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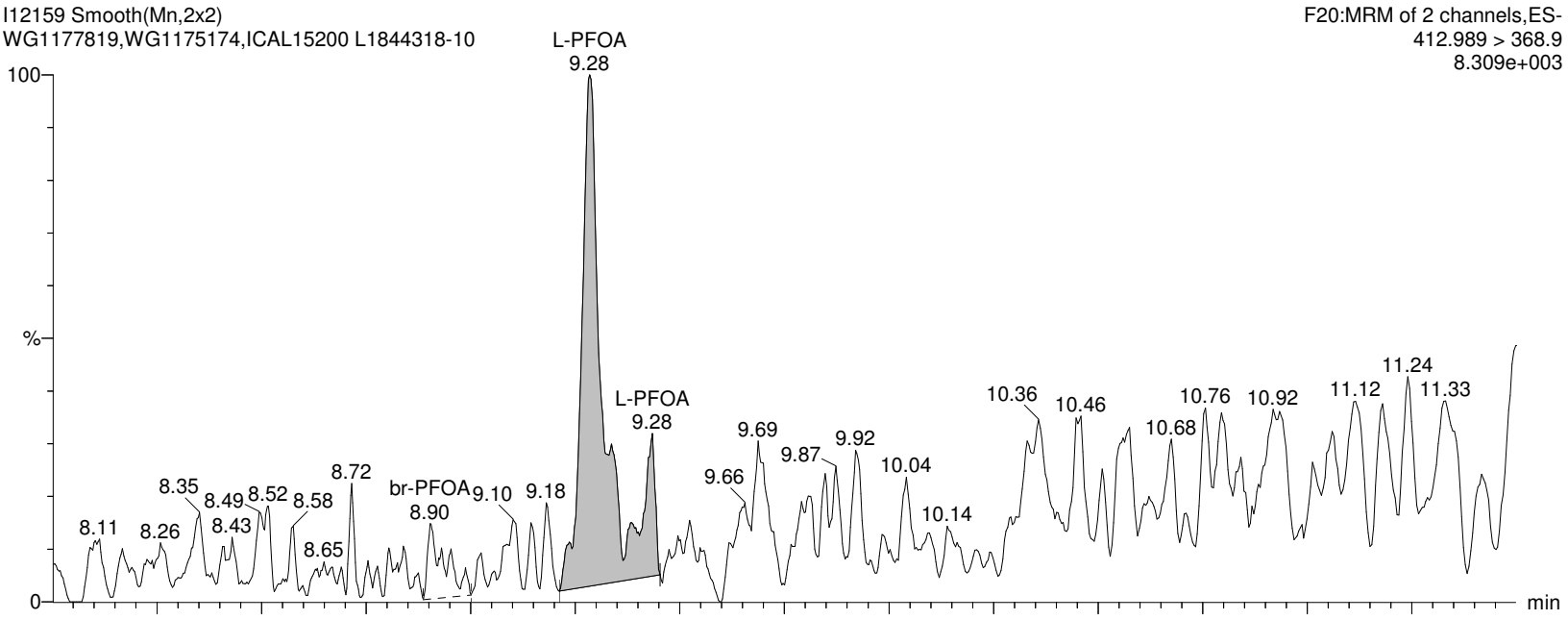

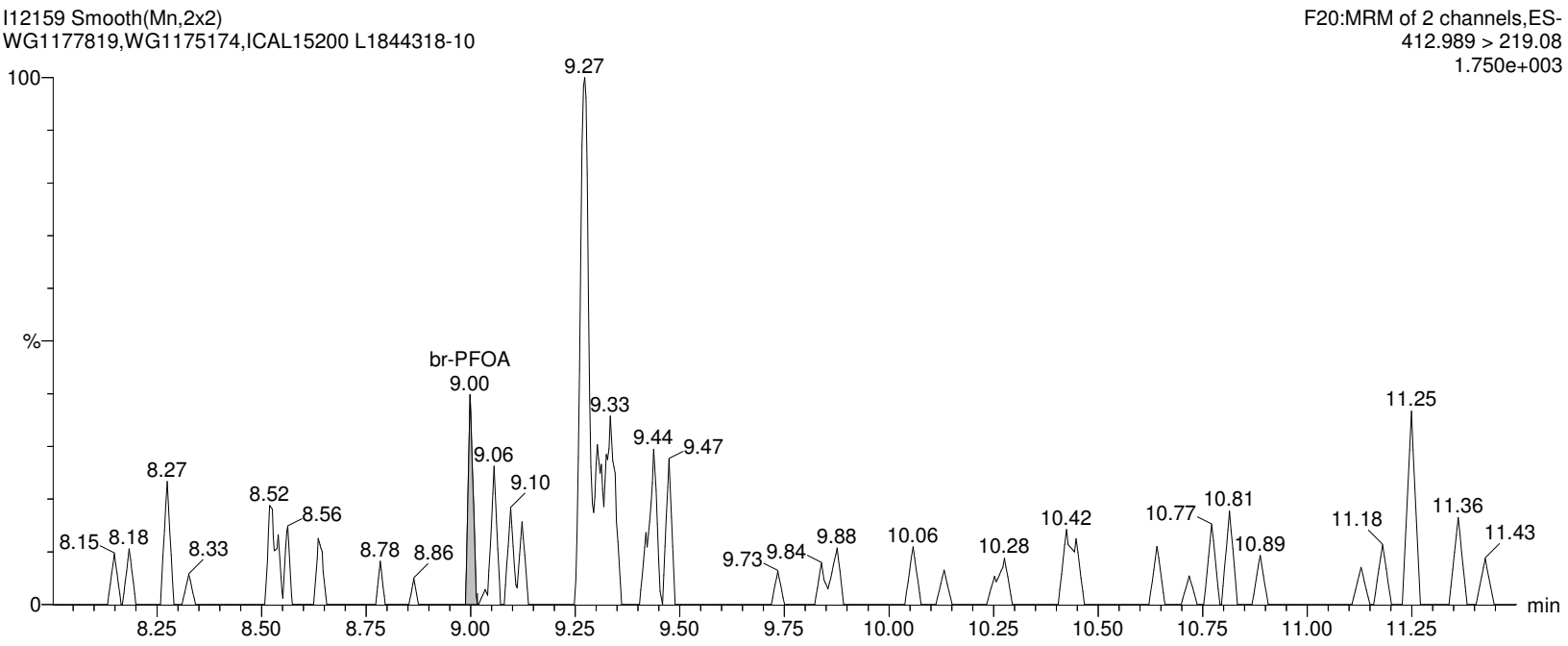

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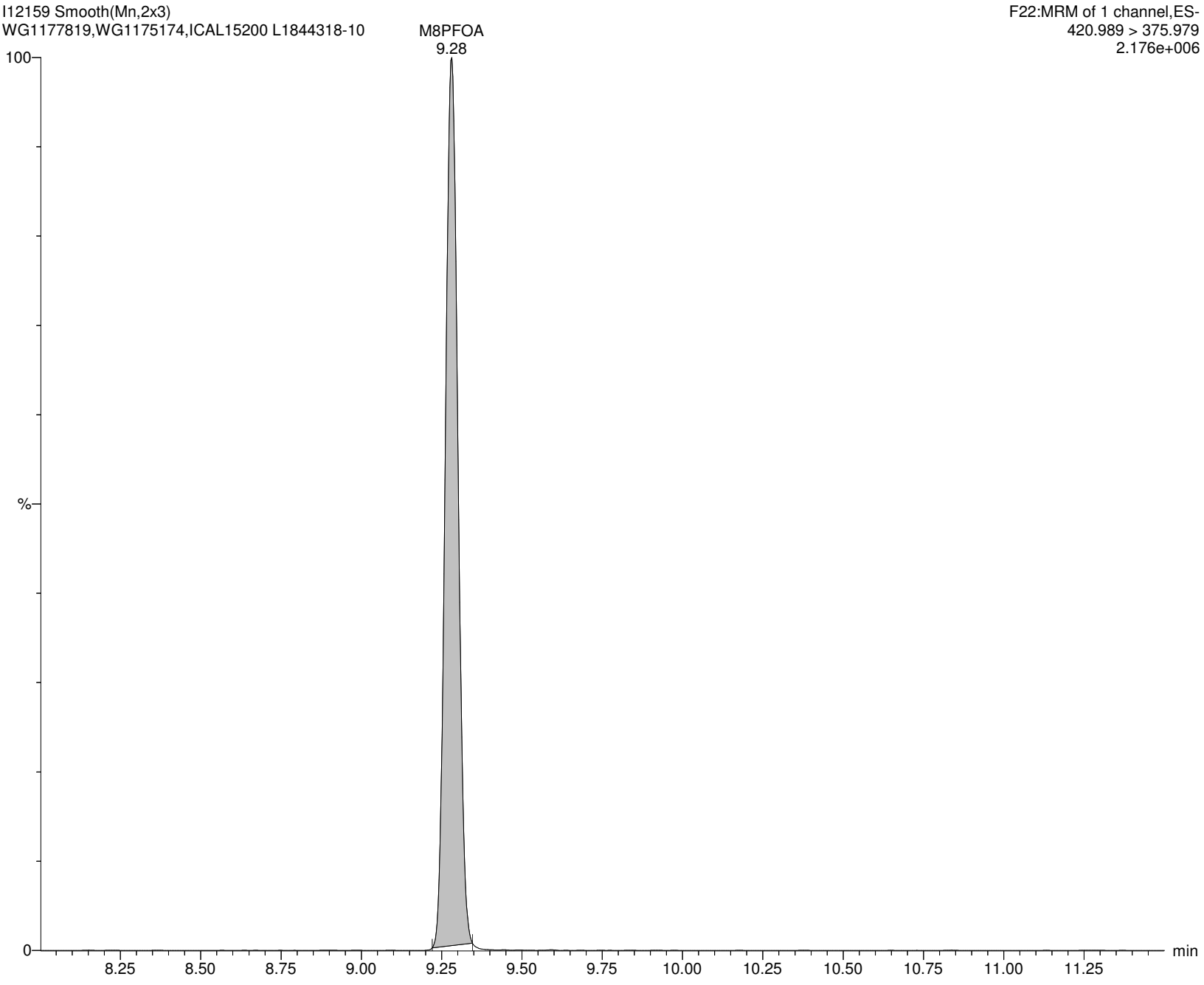

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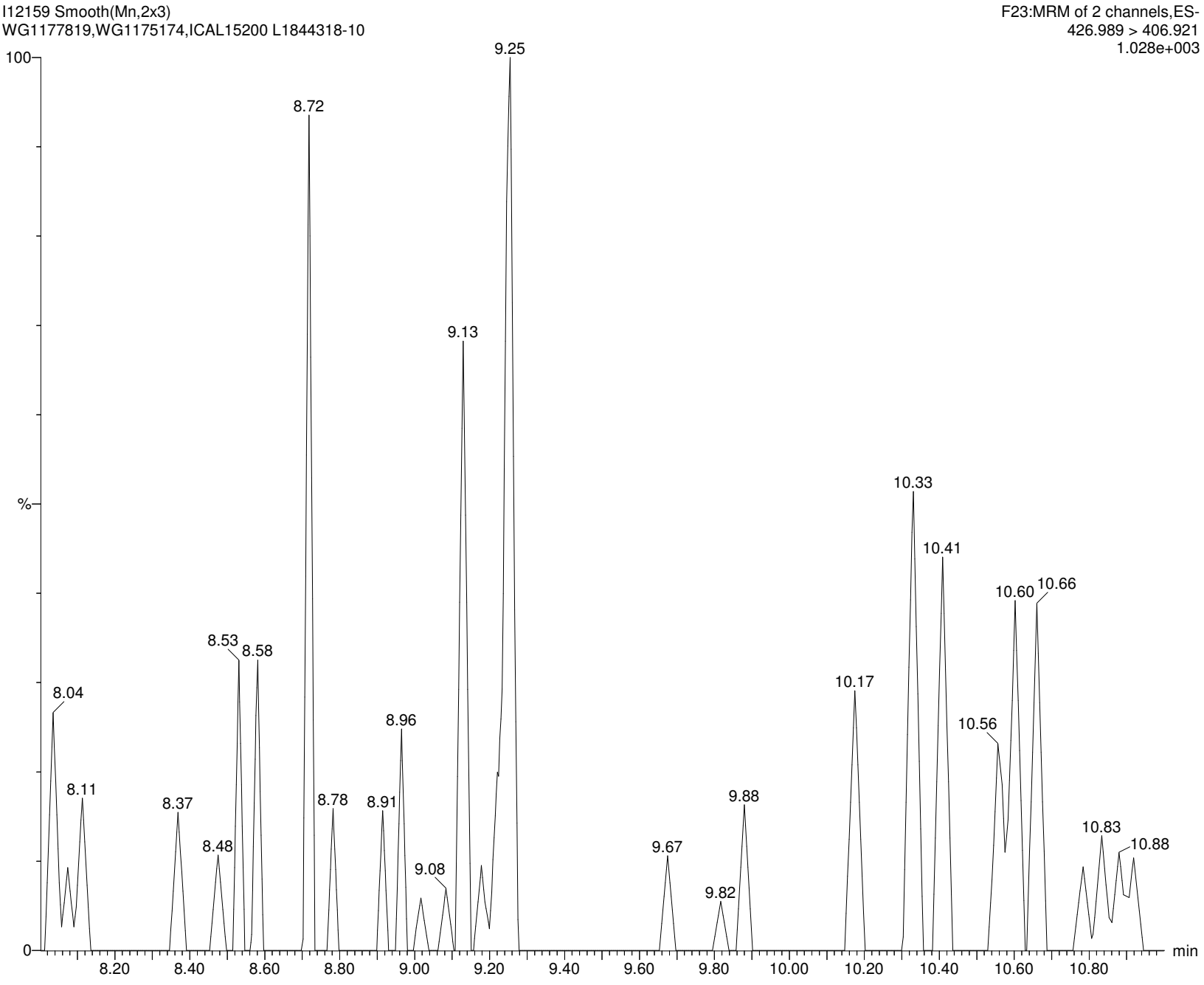

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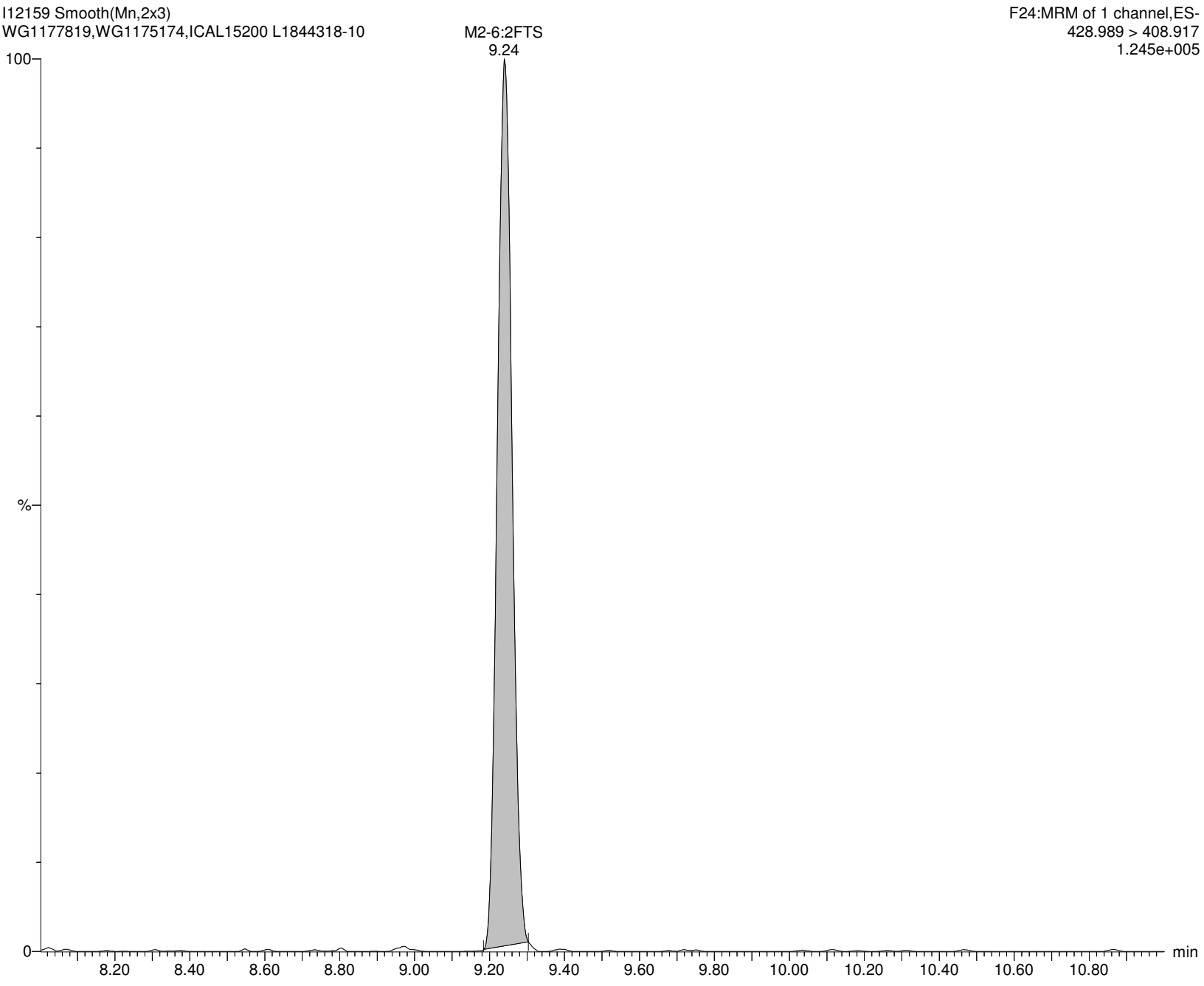

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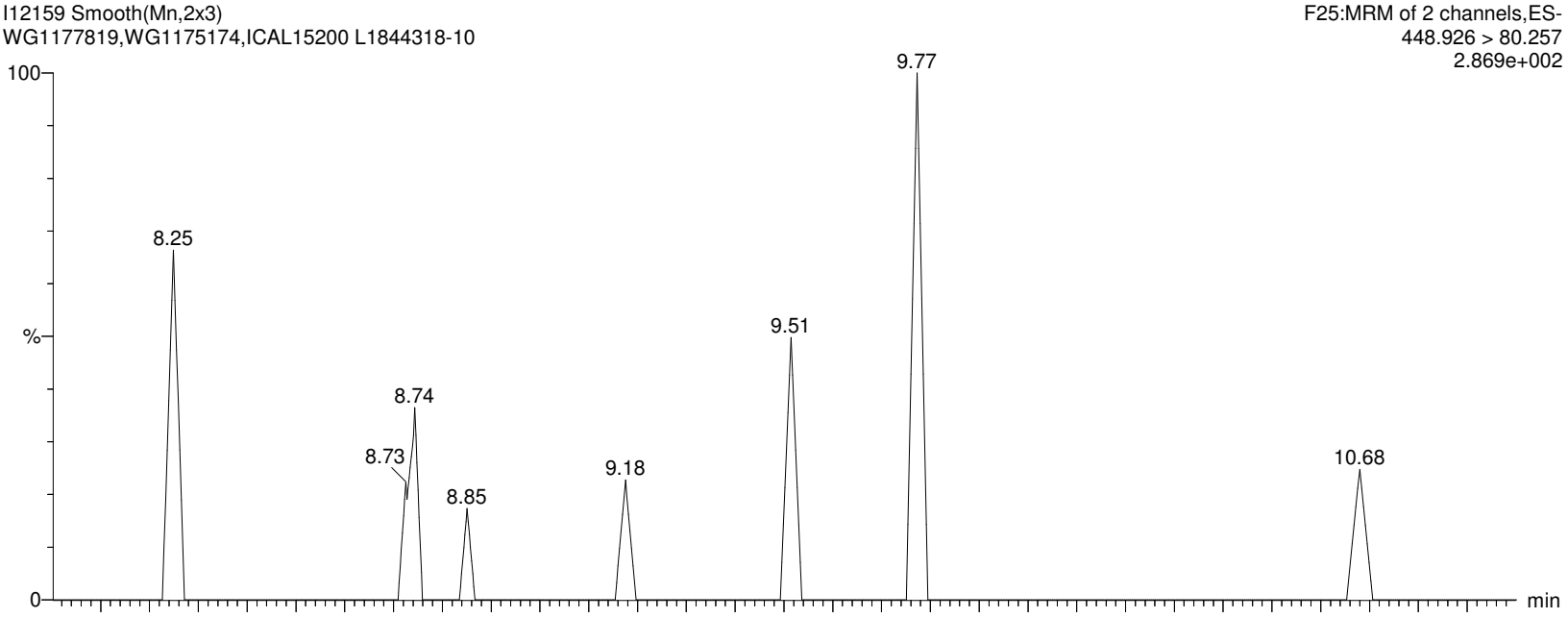

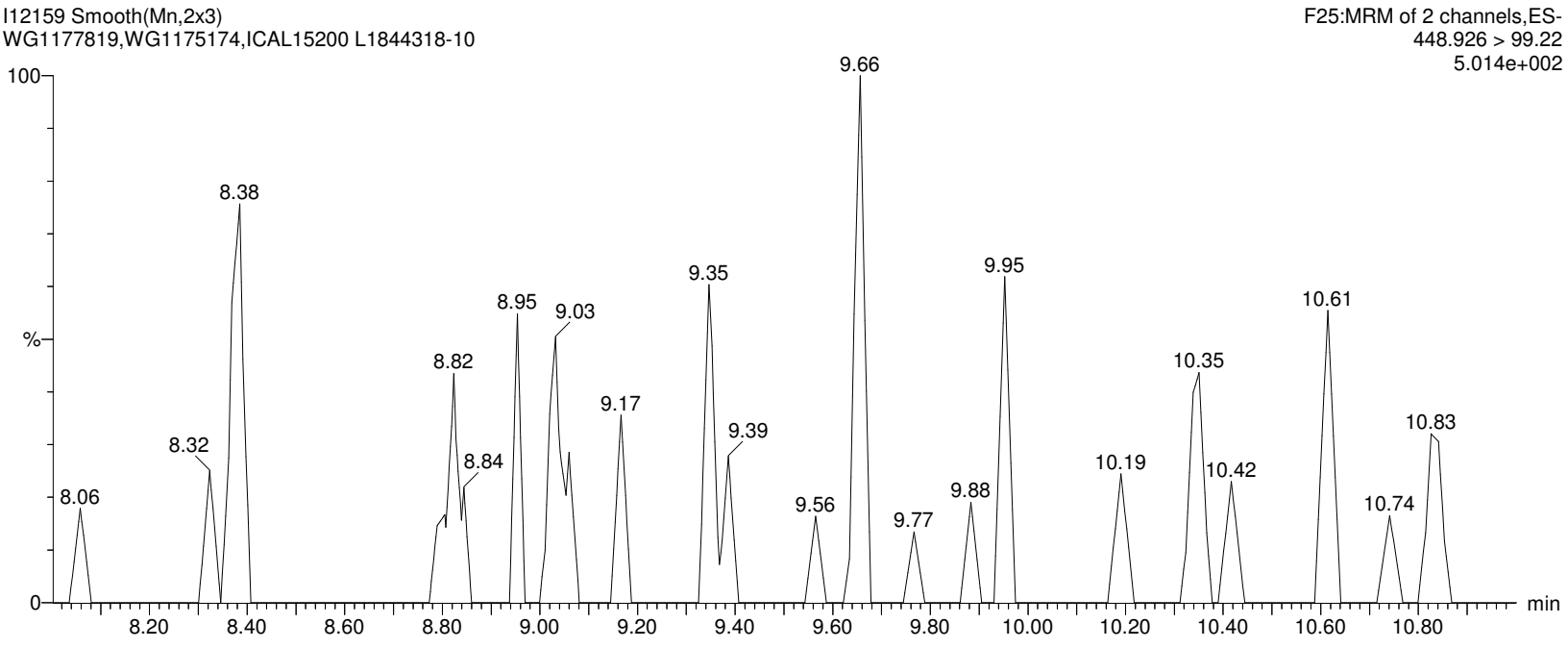

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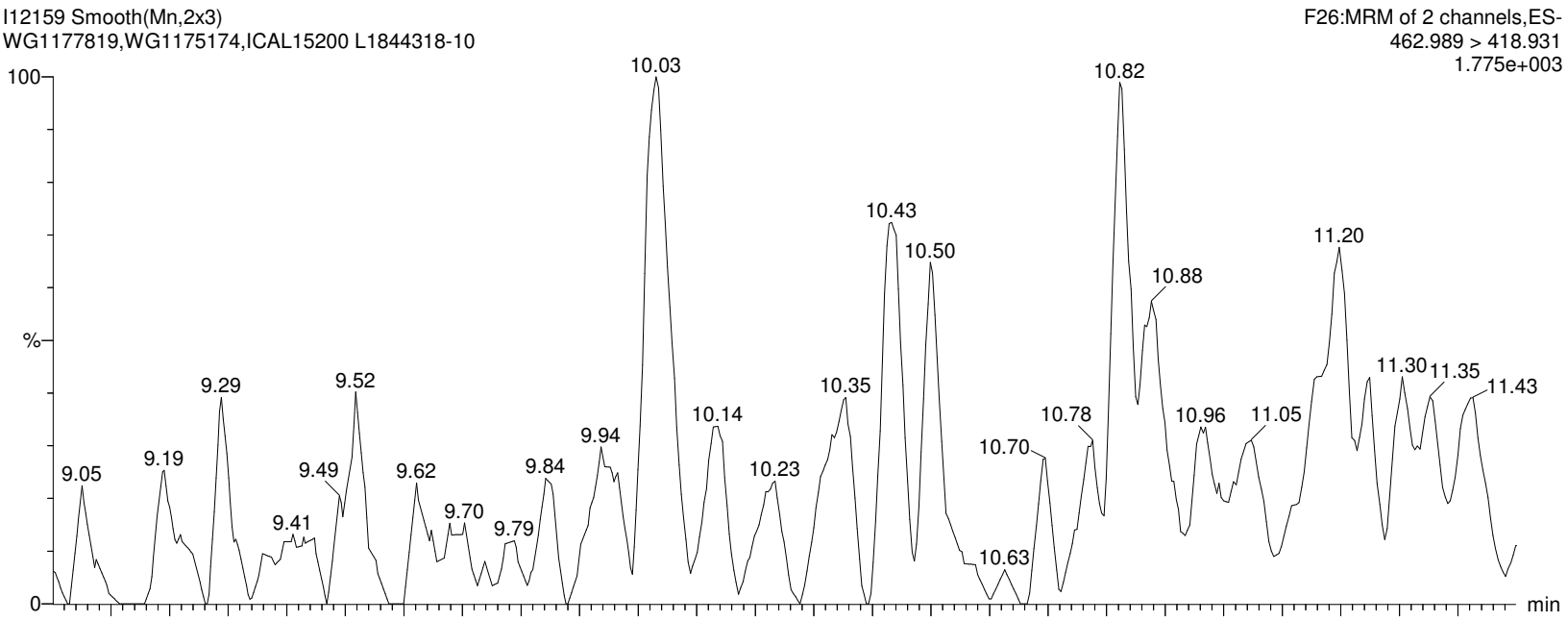

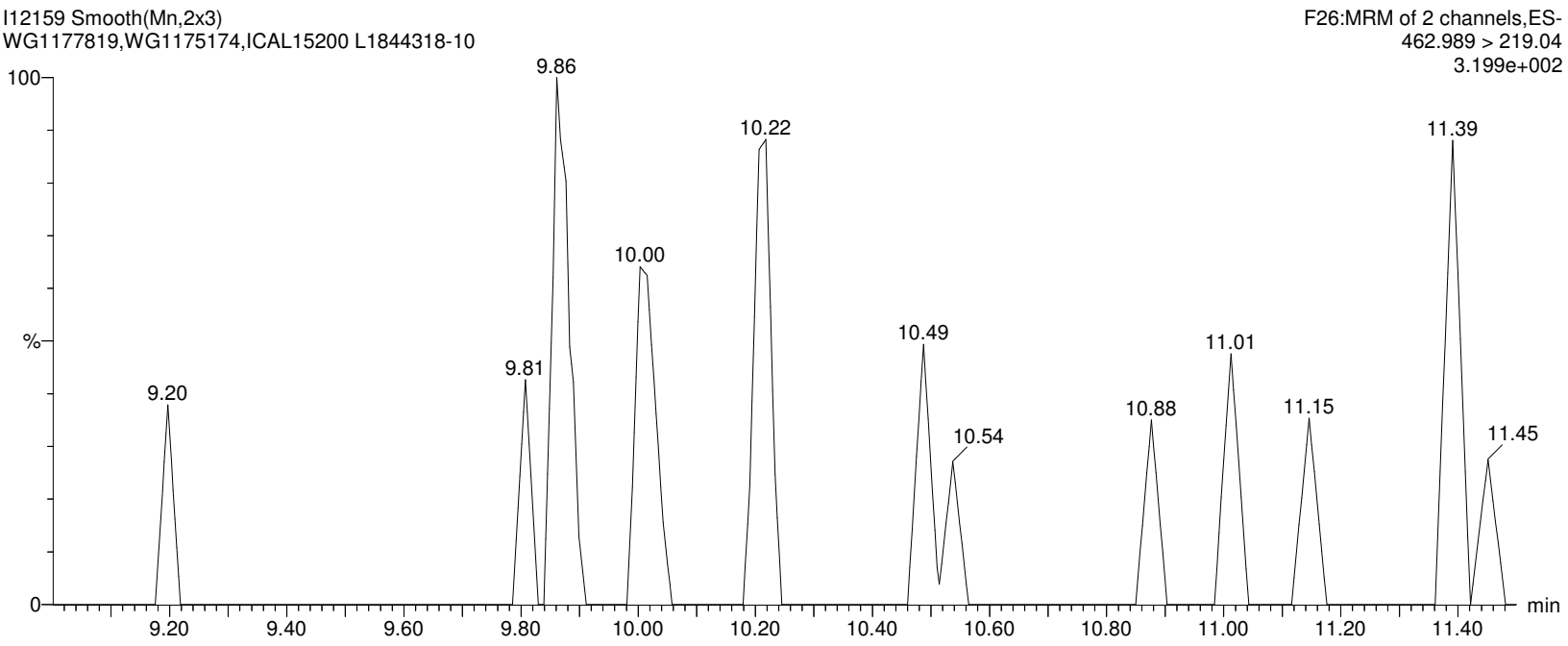

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:04 Eastern Standard Time

Name: I12159
ID: L1844318-10
Date: 10-Nov-2018
Time: 08:47:46
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEA0276
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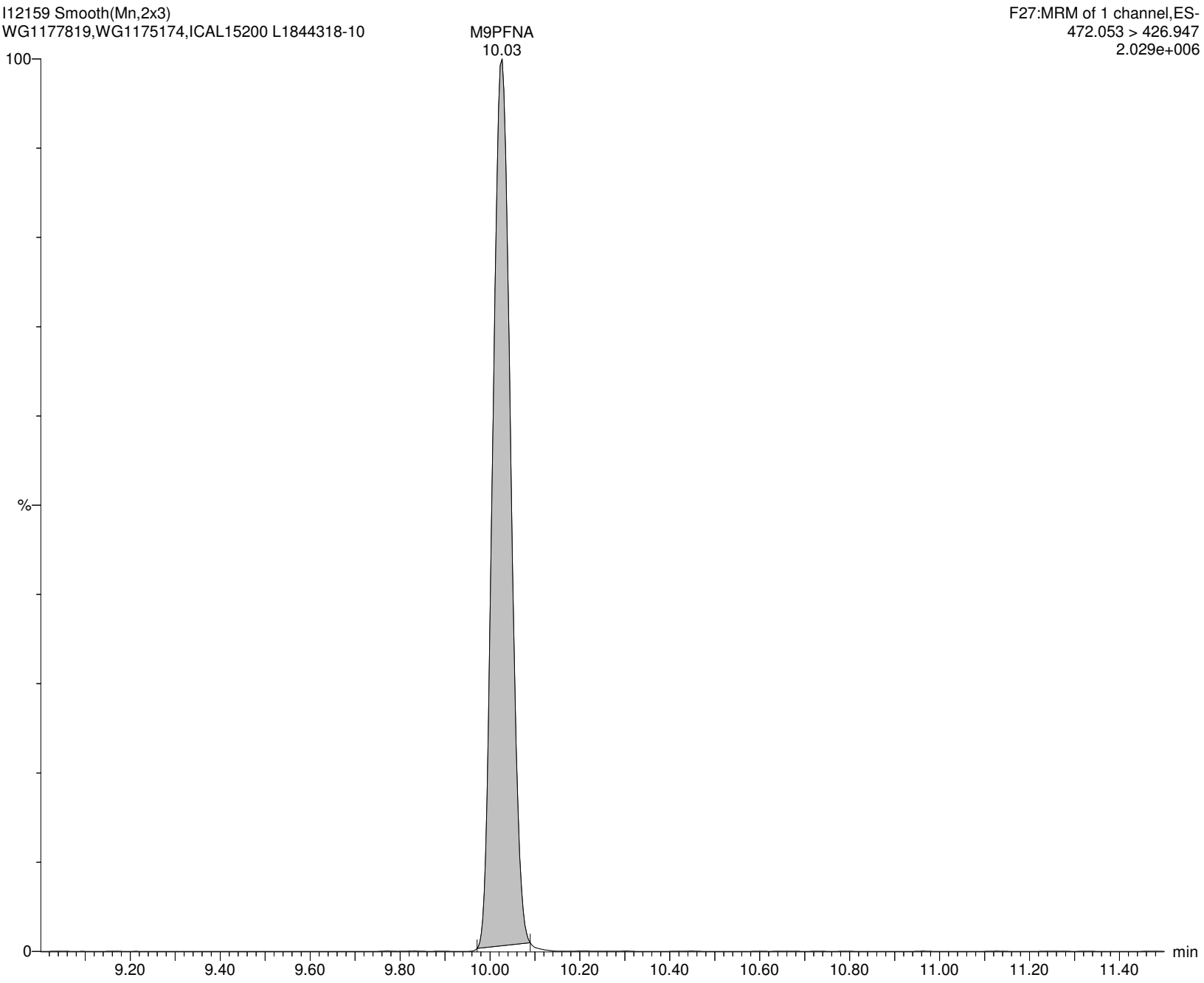

all concentration units in (ng/mL)

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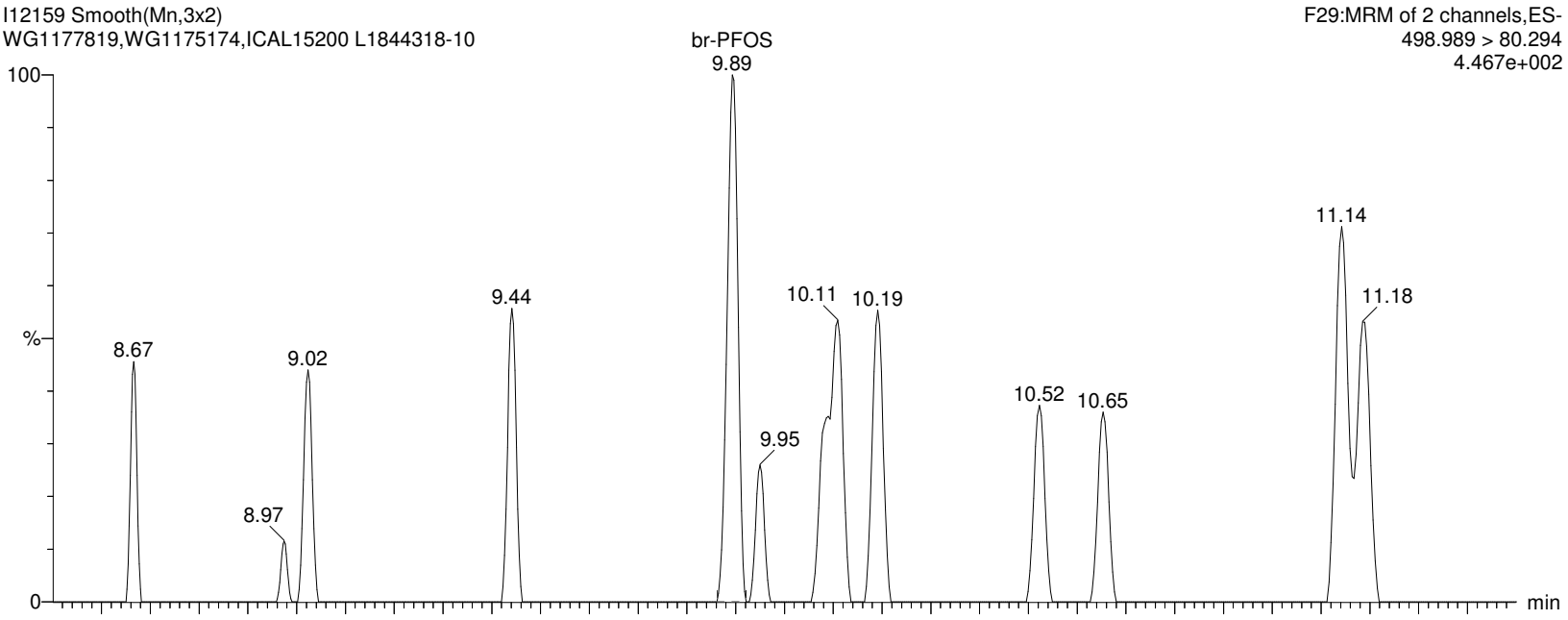

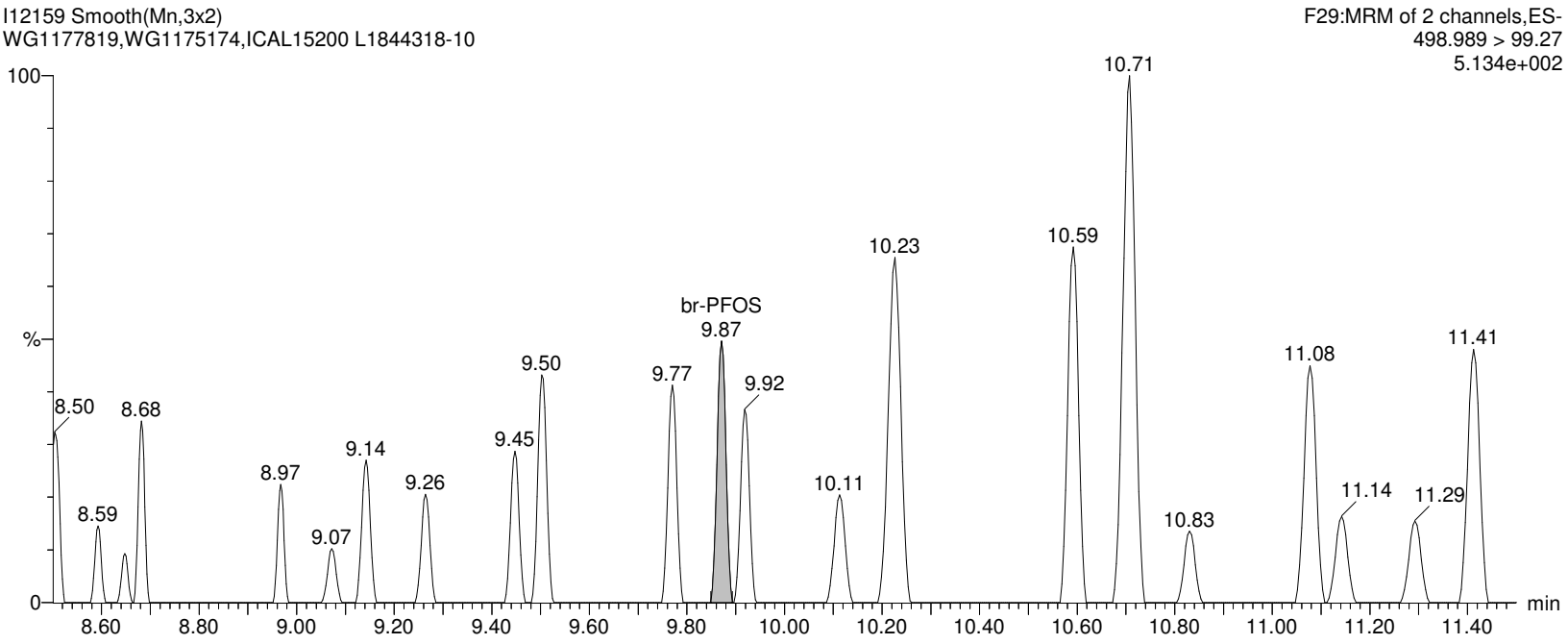

all concentration units in (ng/mL)

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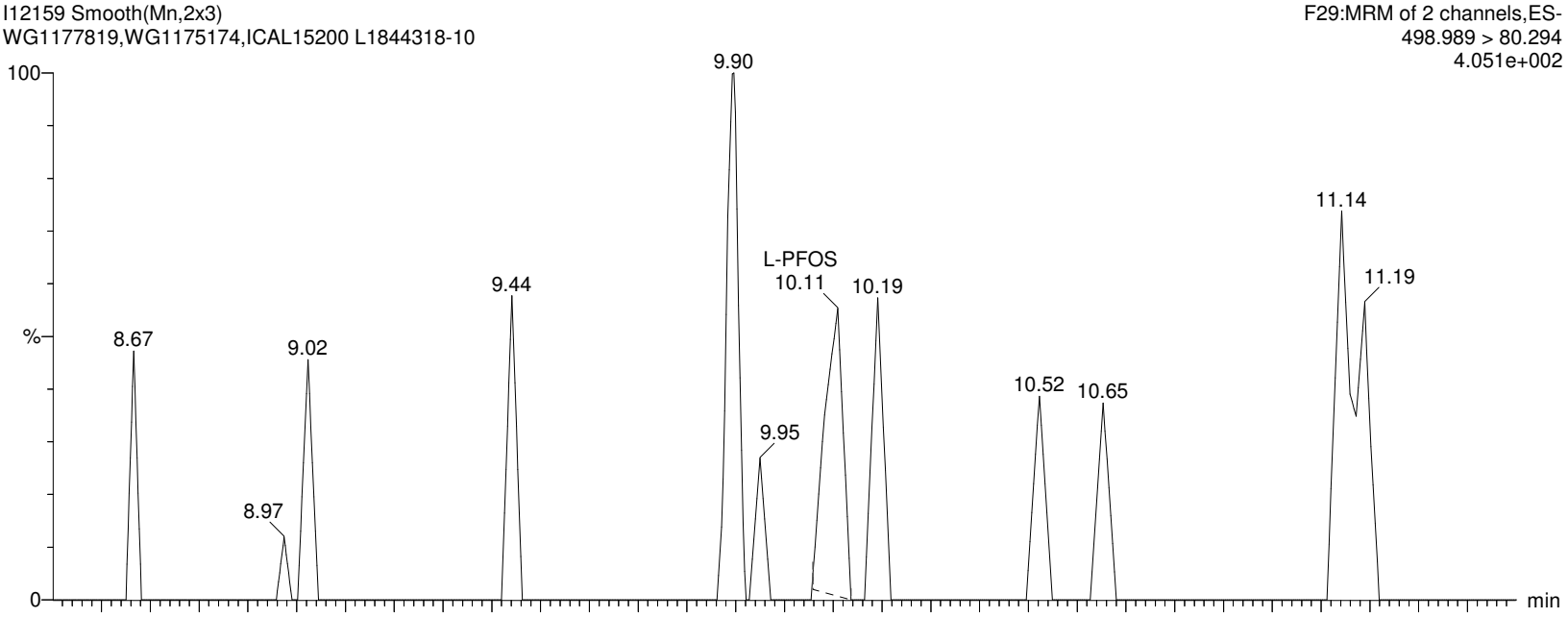

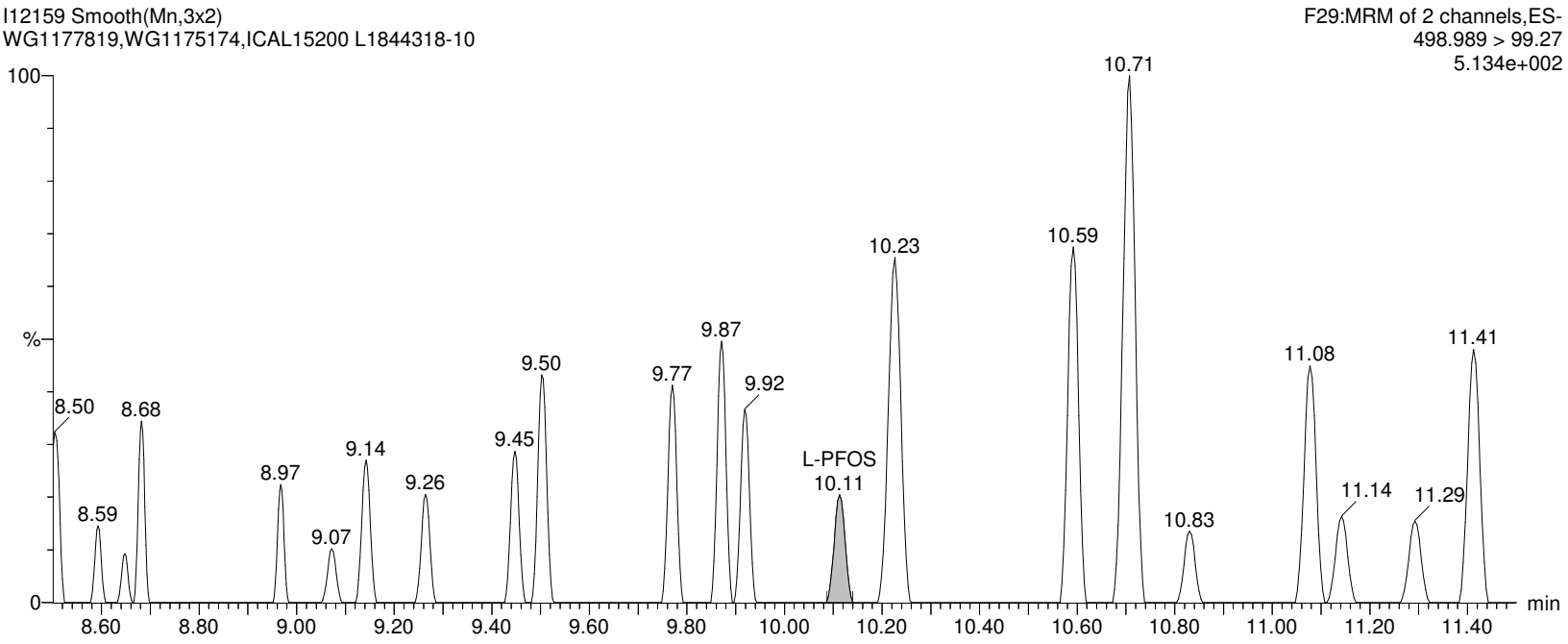

all concentration units in (ng/mL)

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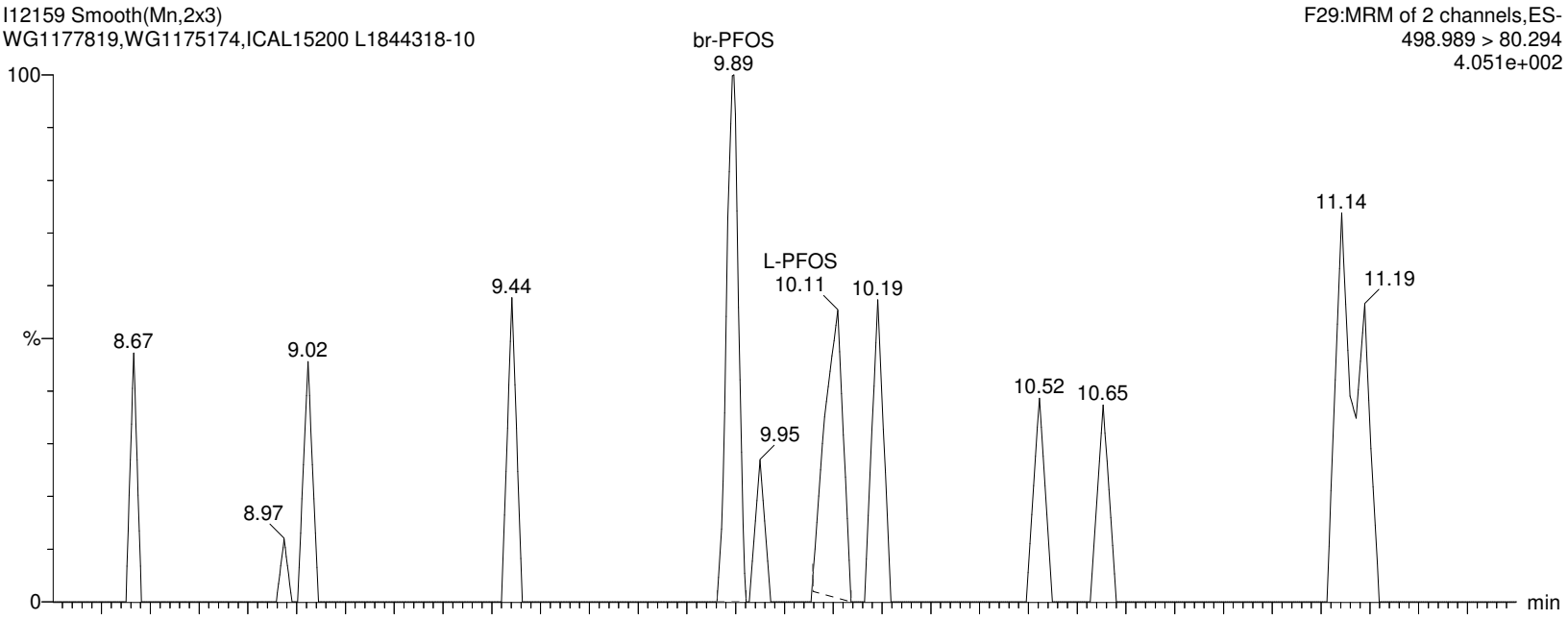

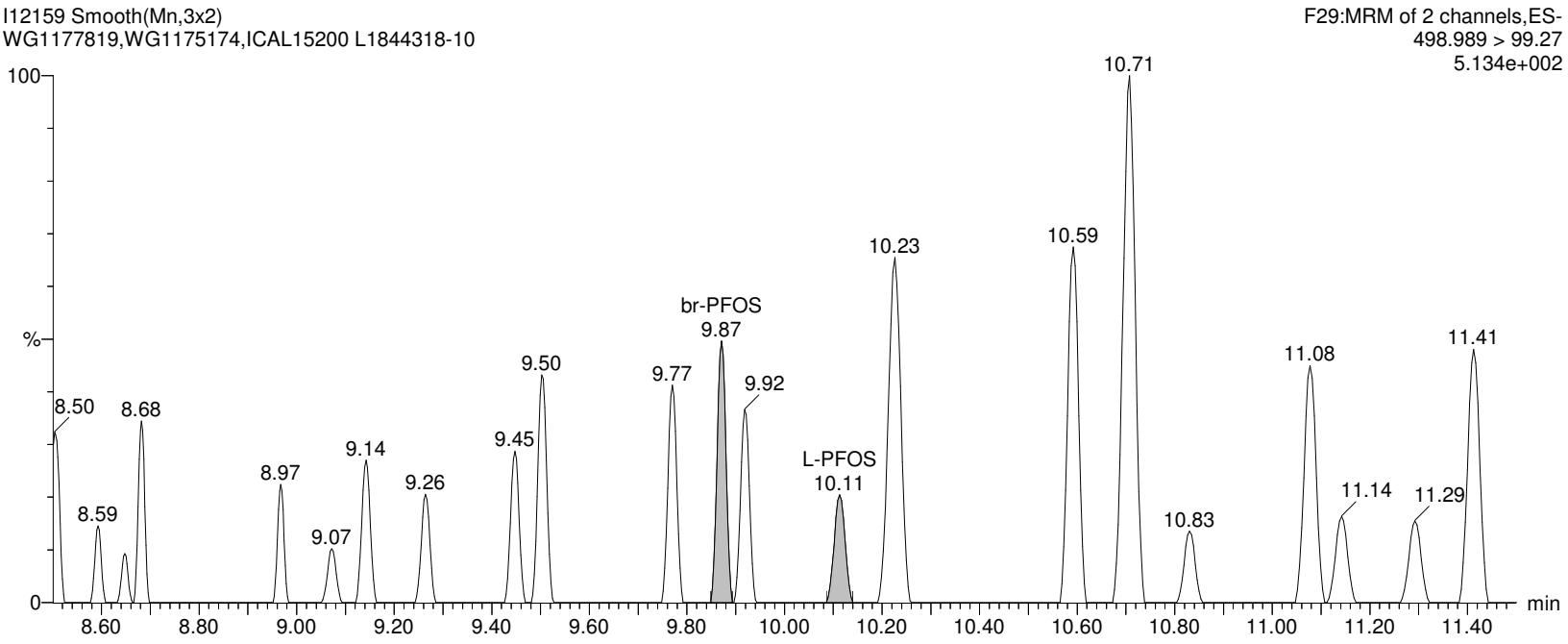

all concentration units in (ng/mL)

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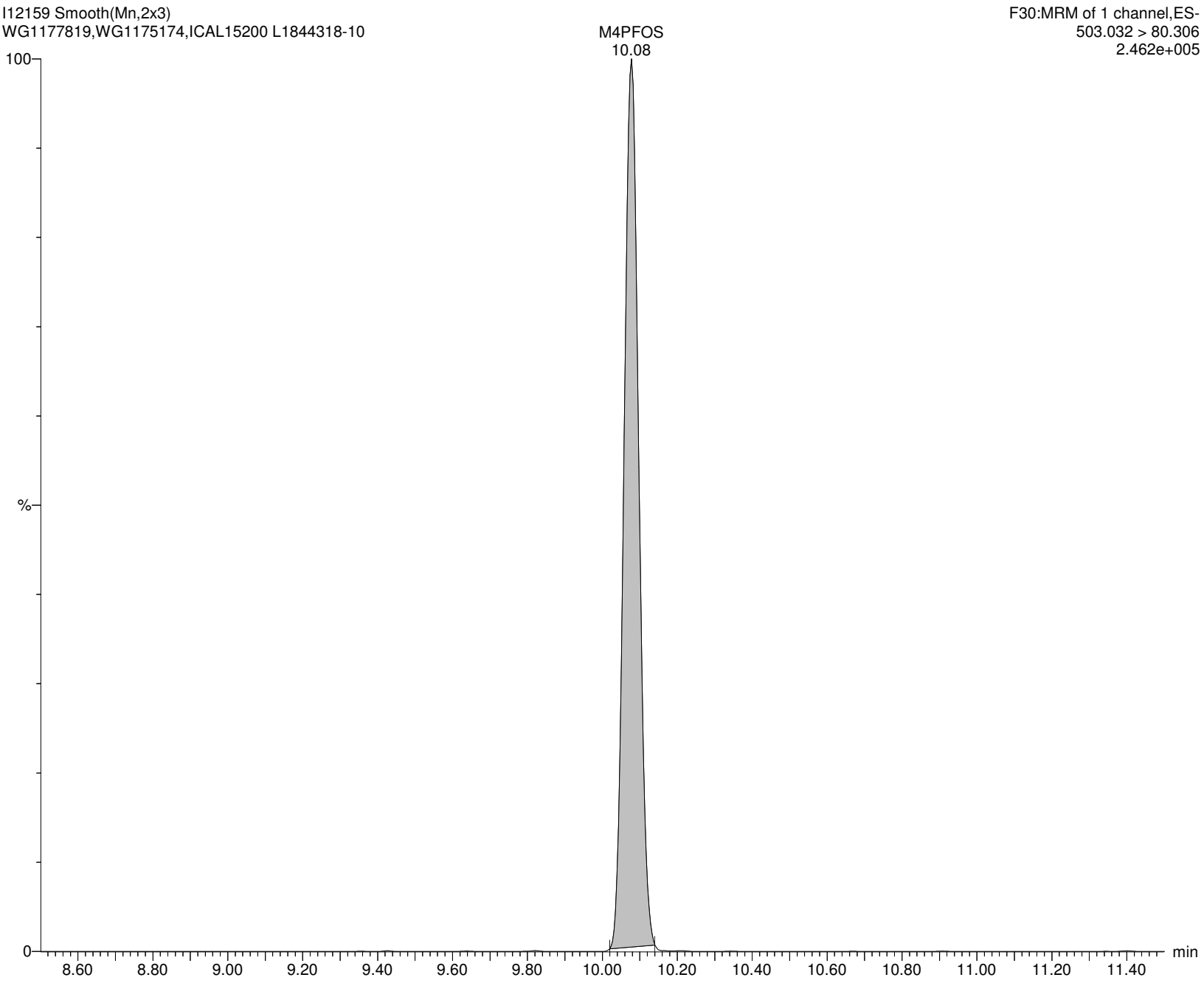

all concentration units in (ng/mL)

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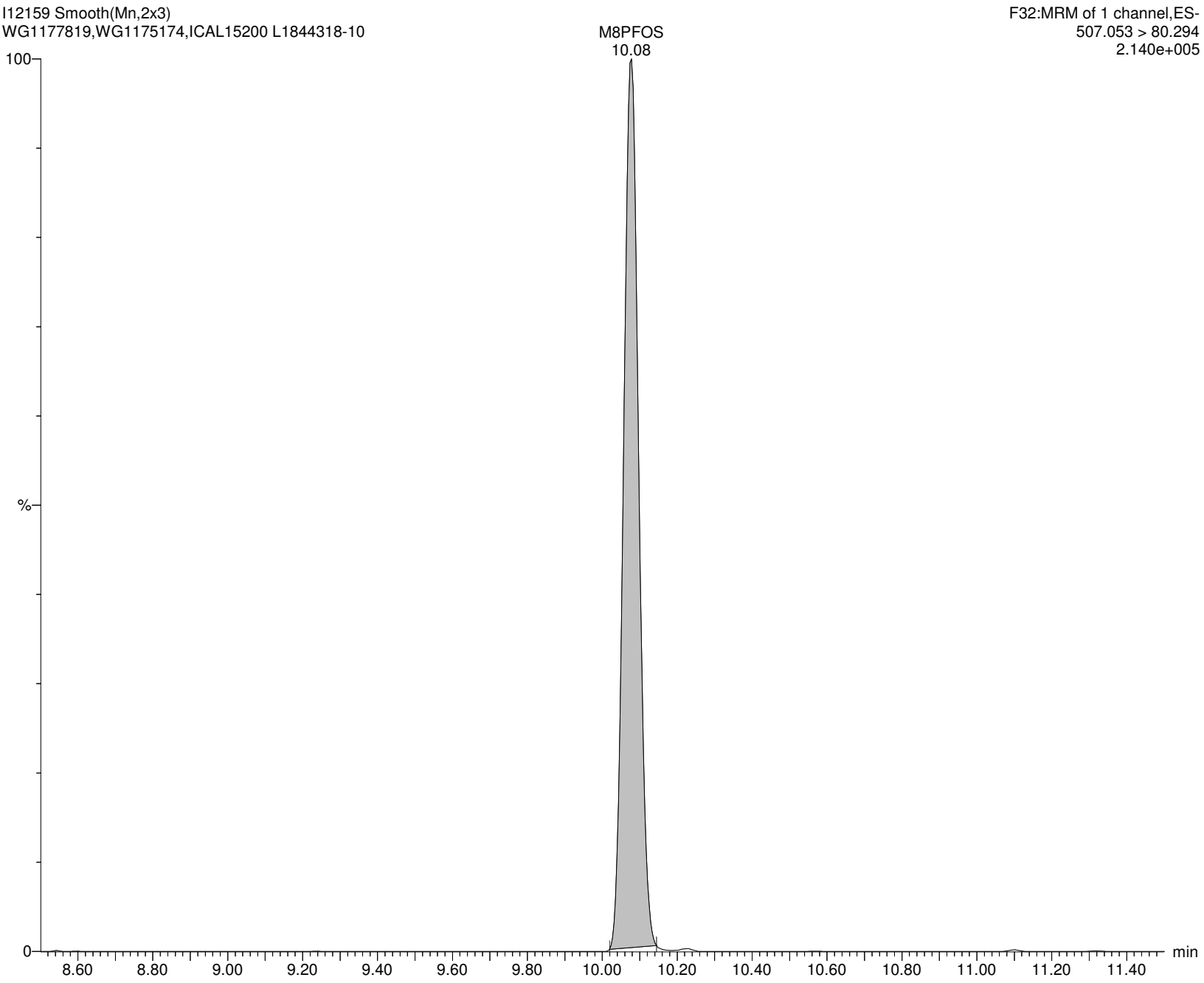

all concentration units in (ng/mL)

Alpha Analytical Inc.
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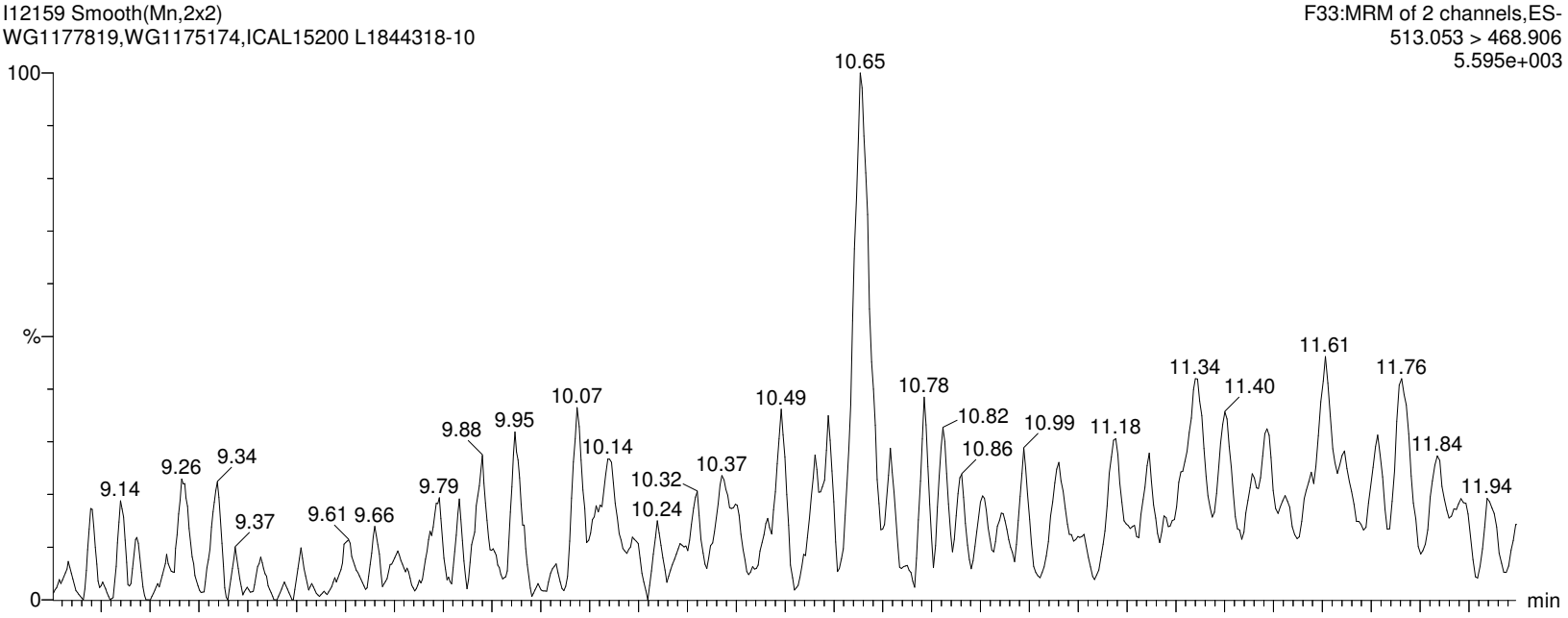

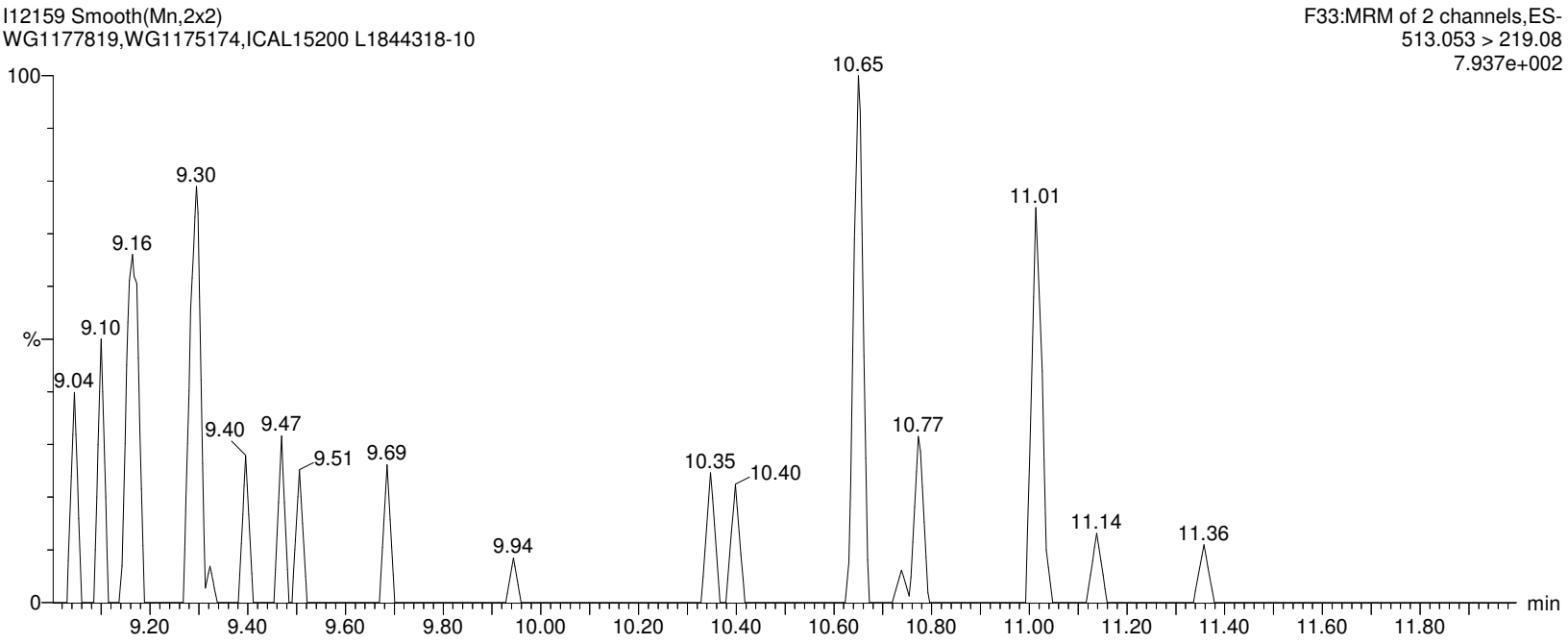

all concentration units in (ng/mL)

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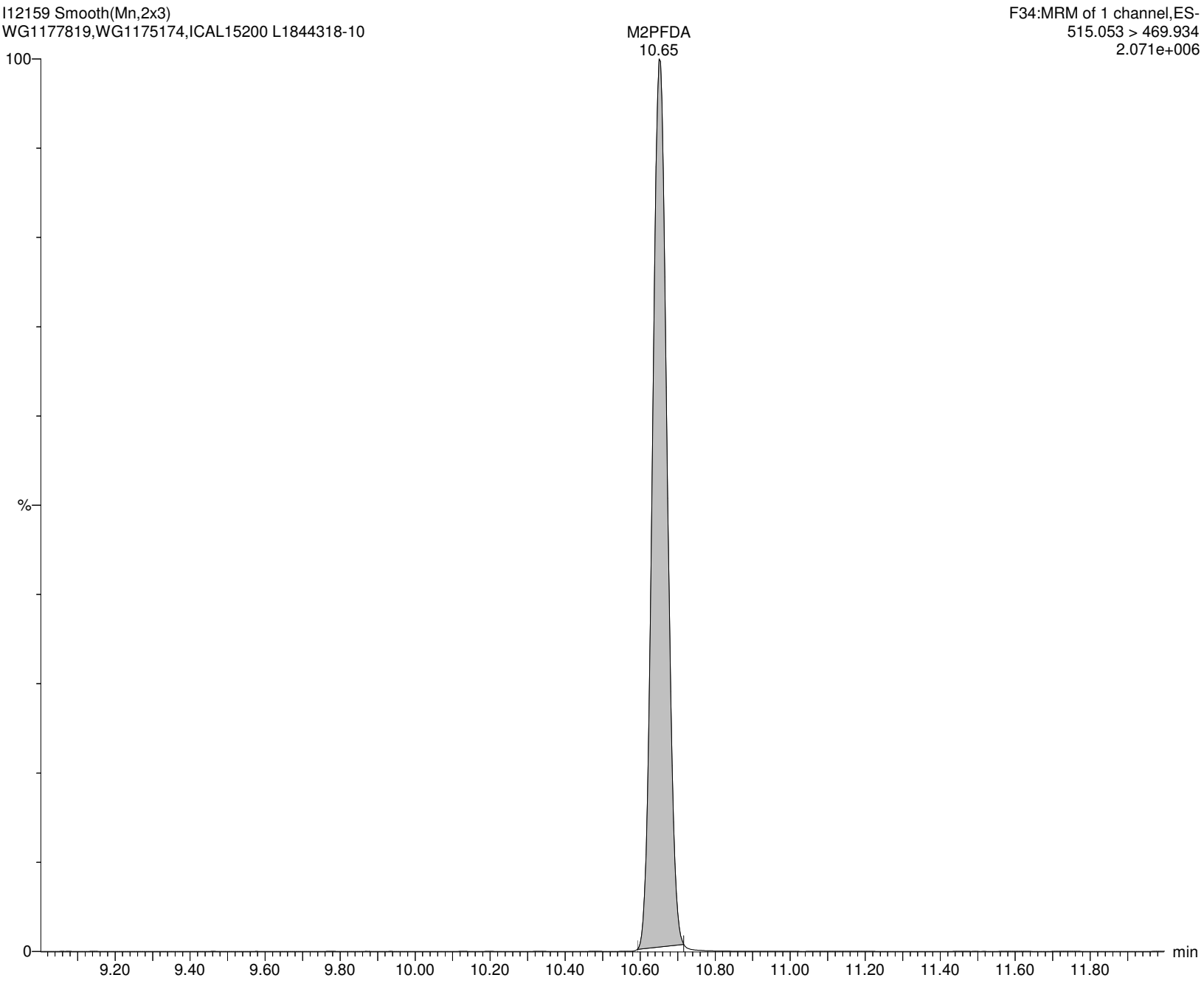

all concentration units in (ng/mL)

Alpha Analytical Inc.
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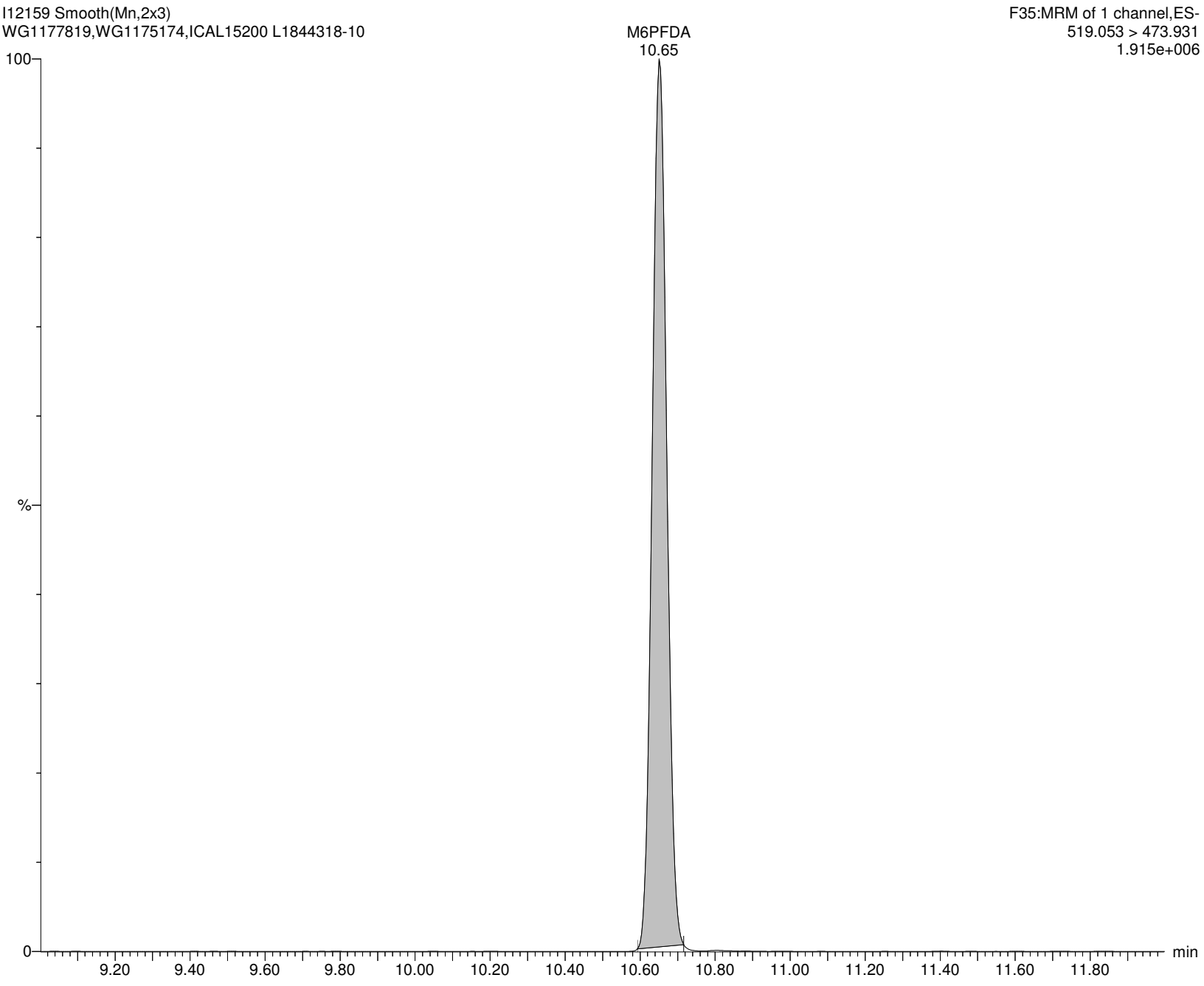

all concentration units in (ng/mL)

Alpha Analytical Inc.
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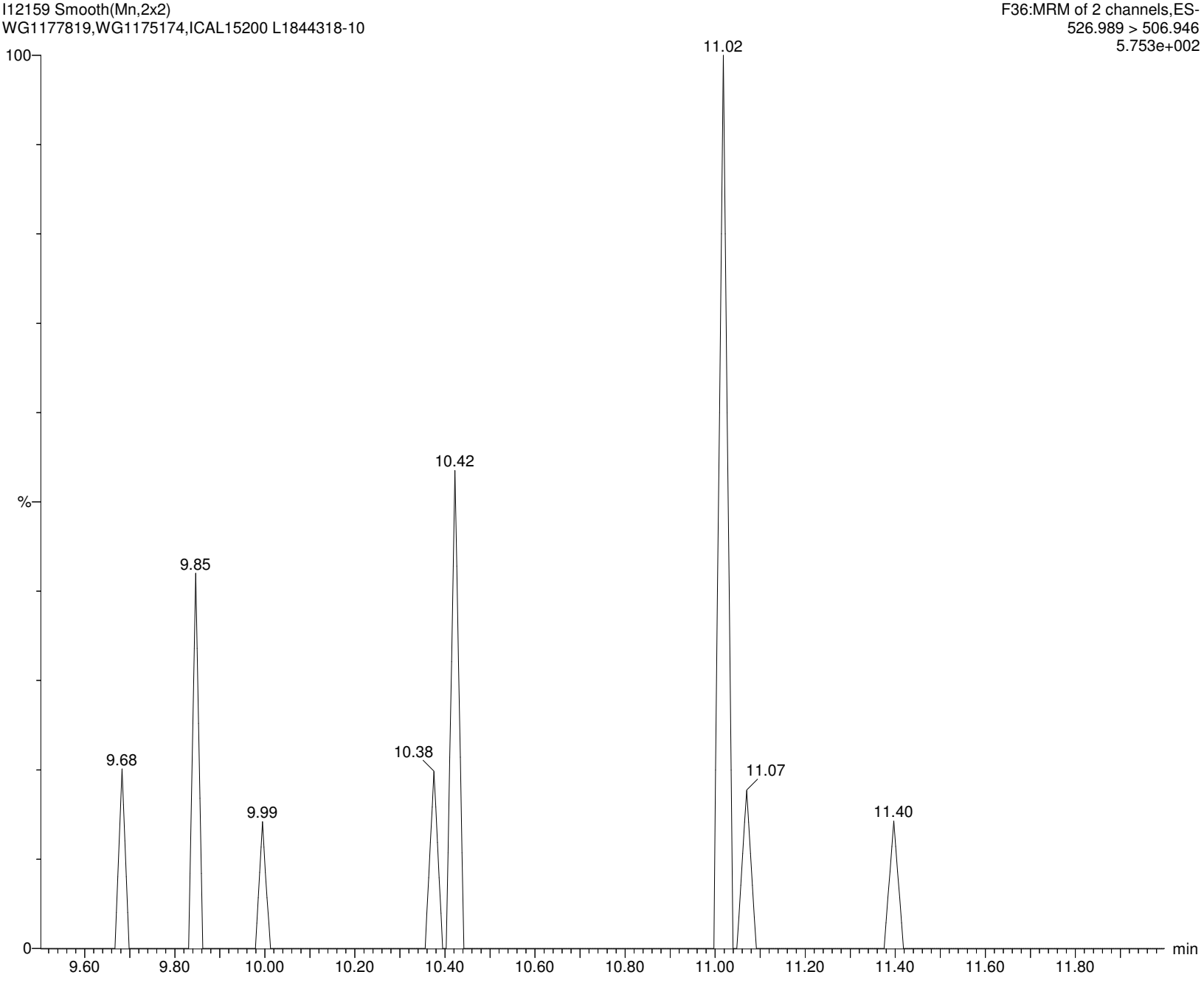

all concentration units in (ng/mL)

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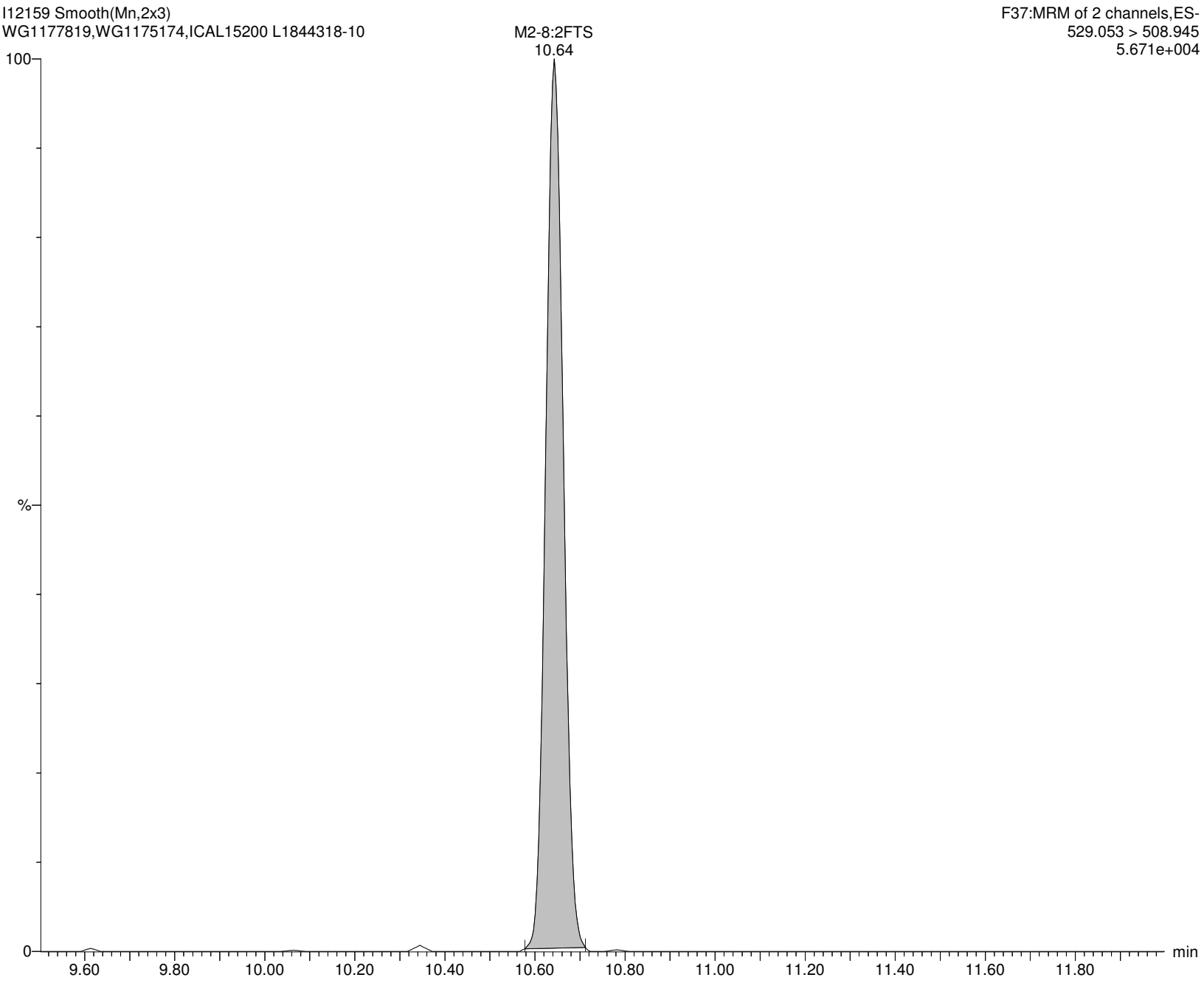

all concentration units in (ng/mL)

Alpha Analytical Inc.
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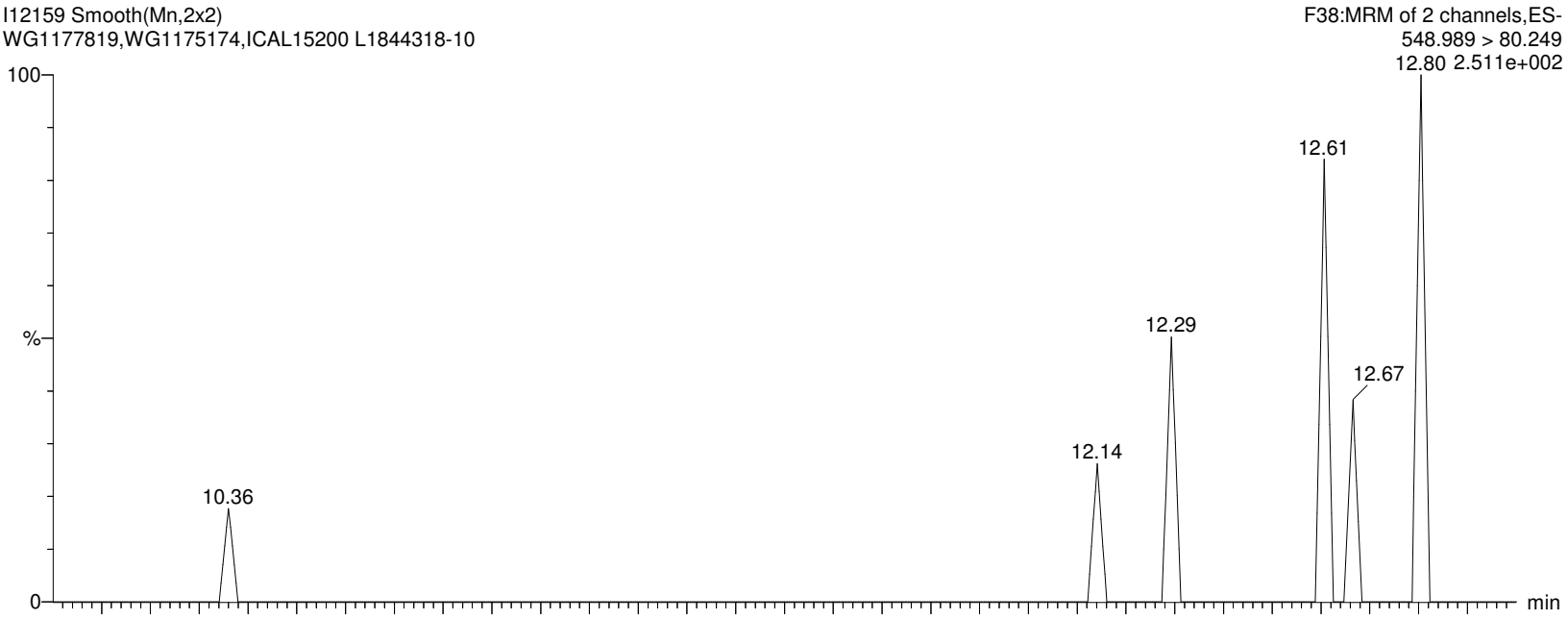

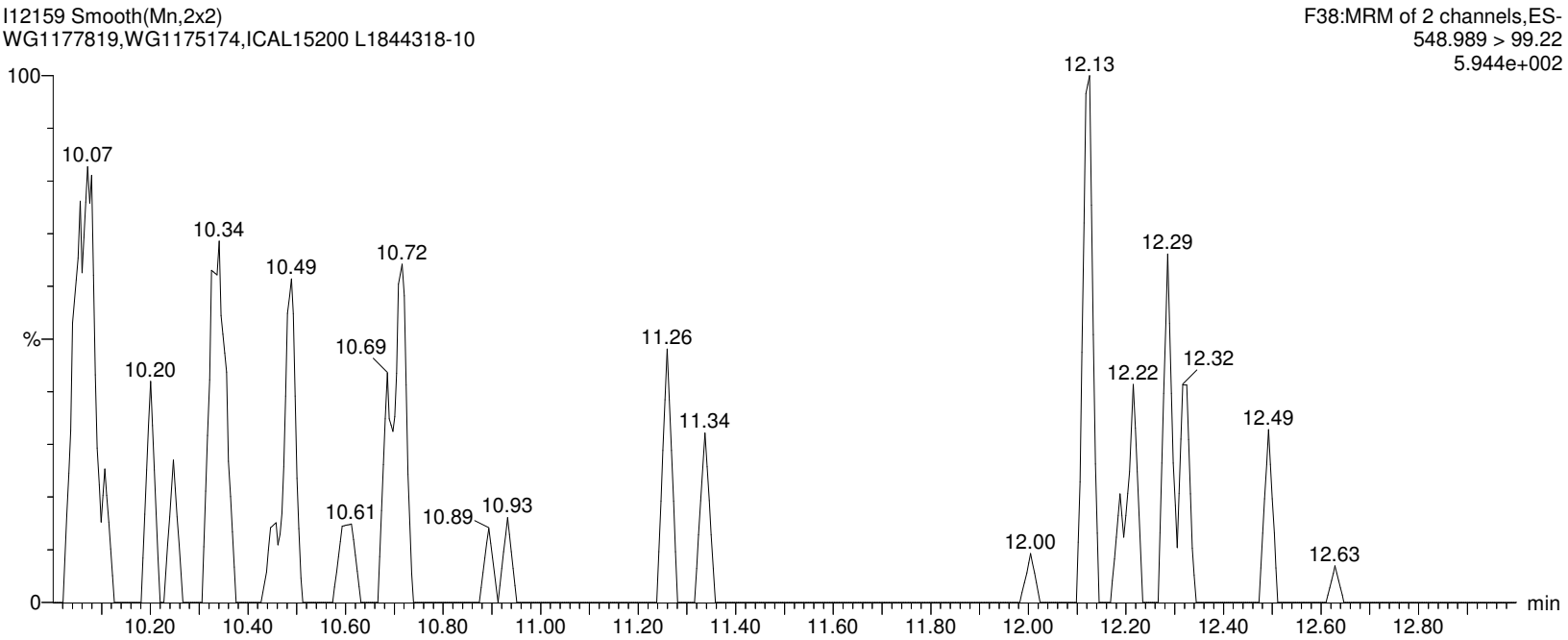

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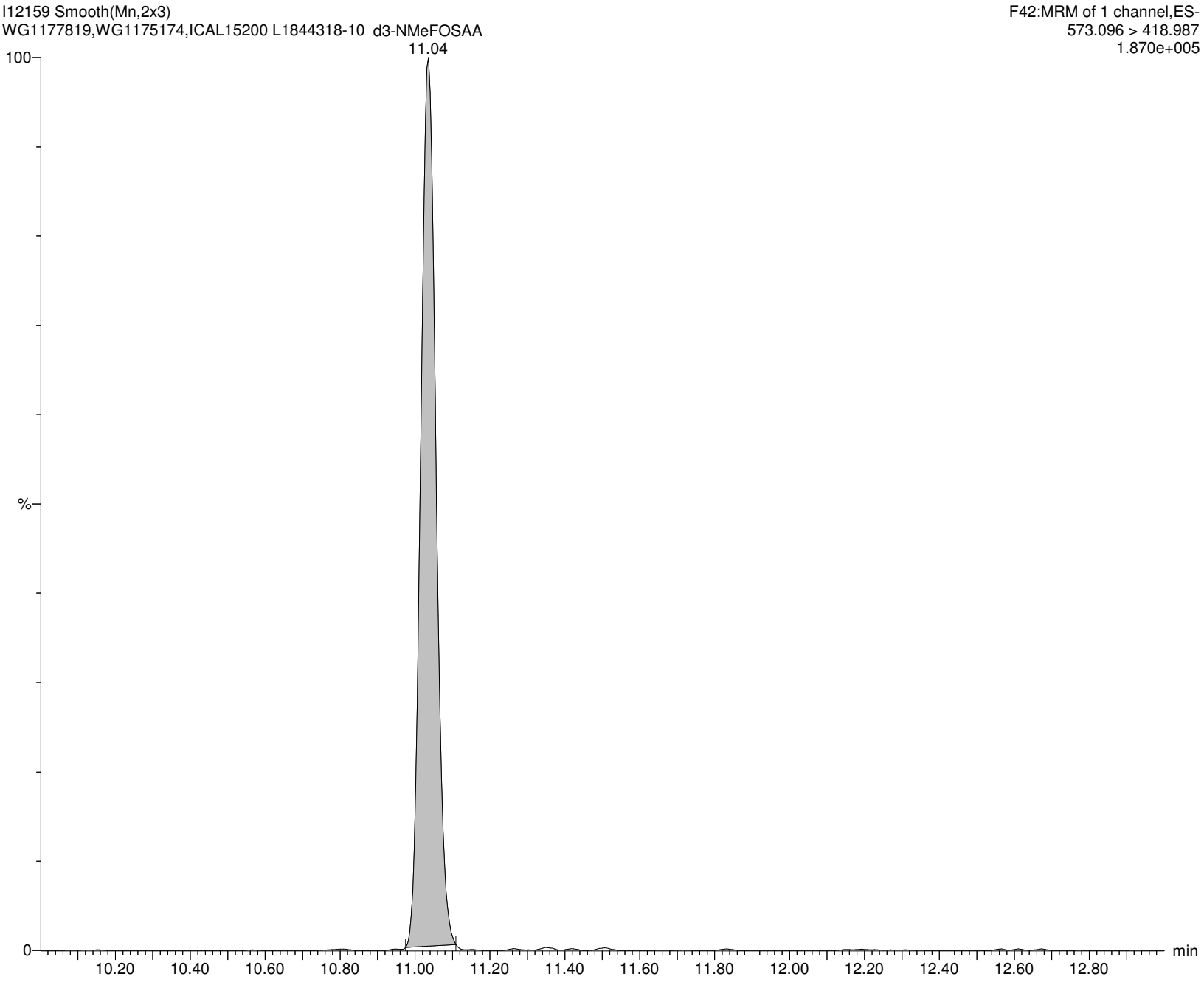

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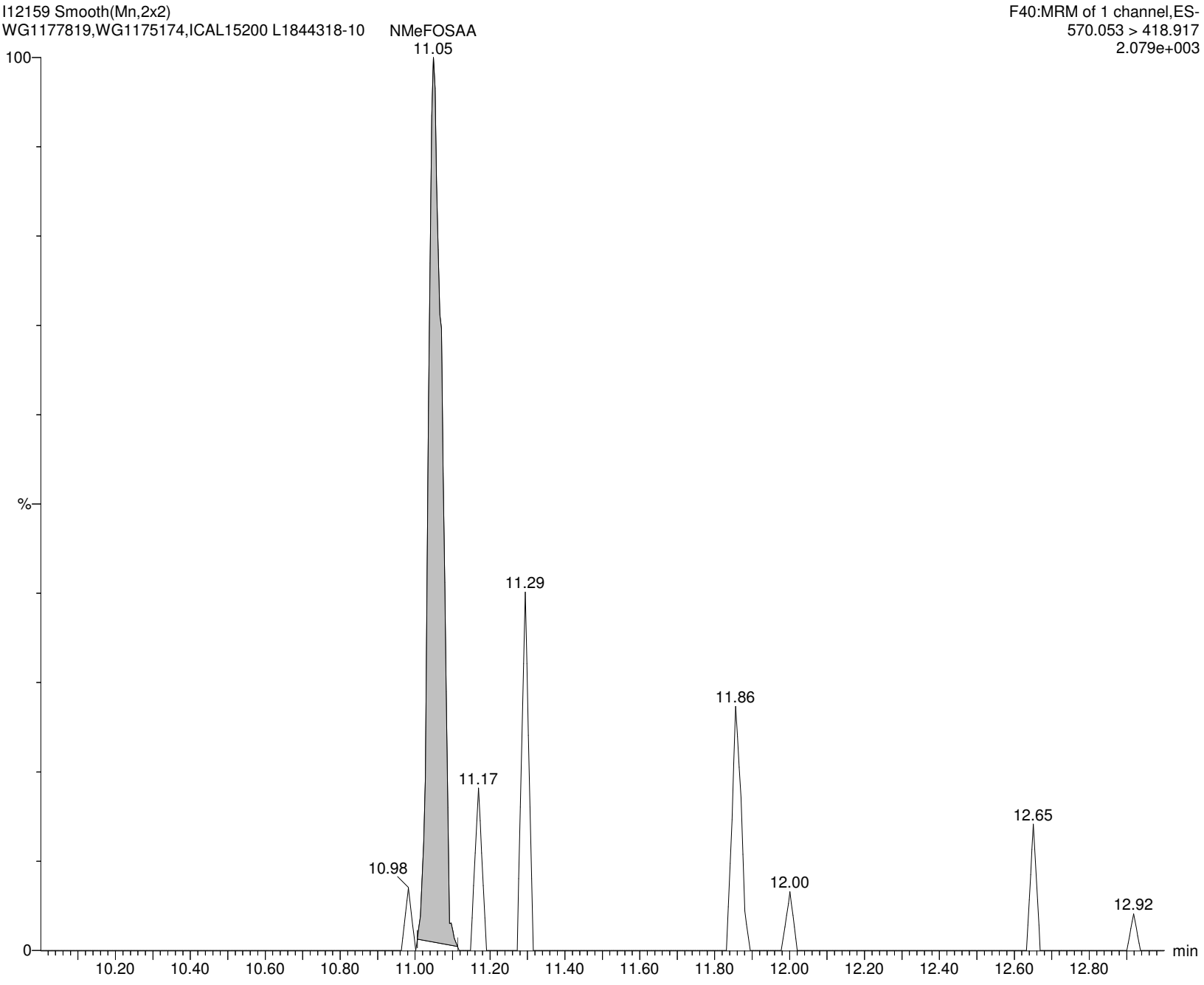

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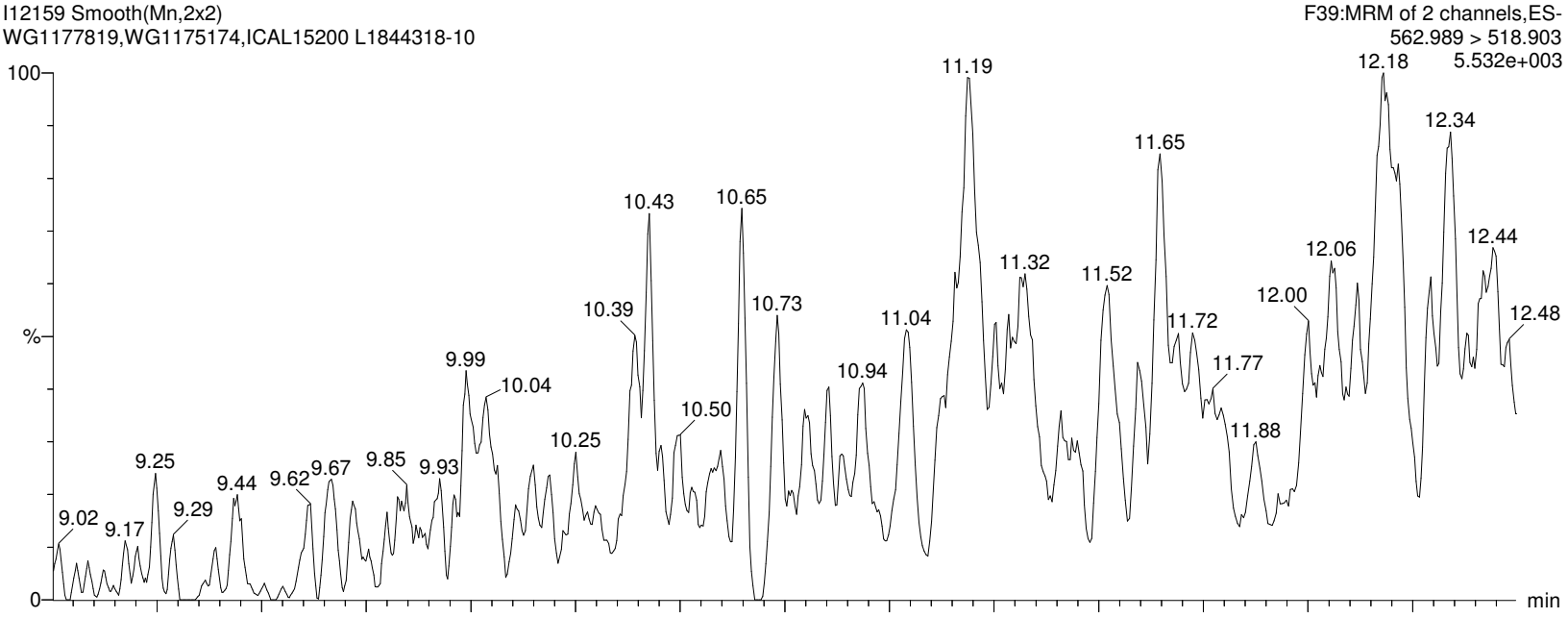

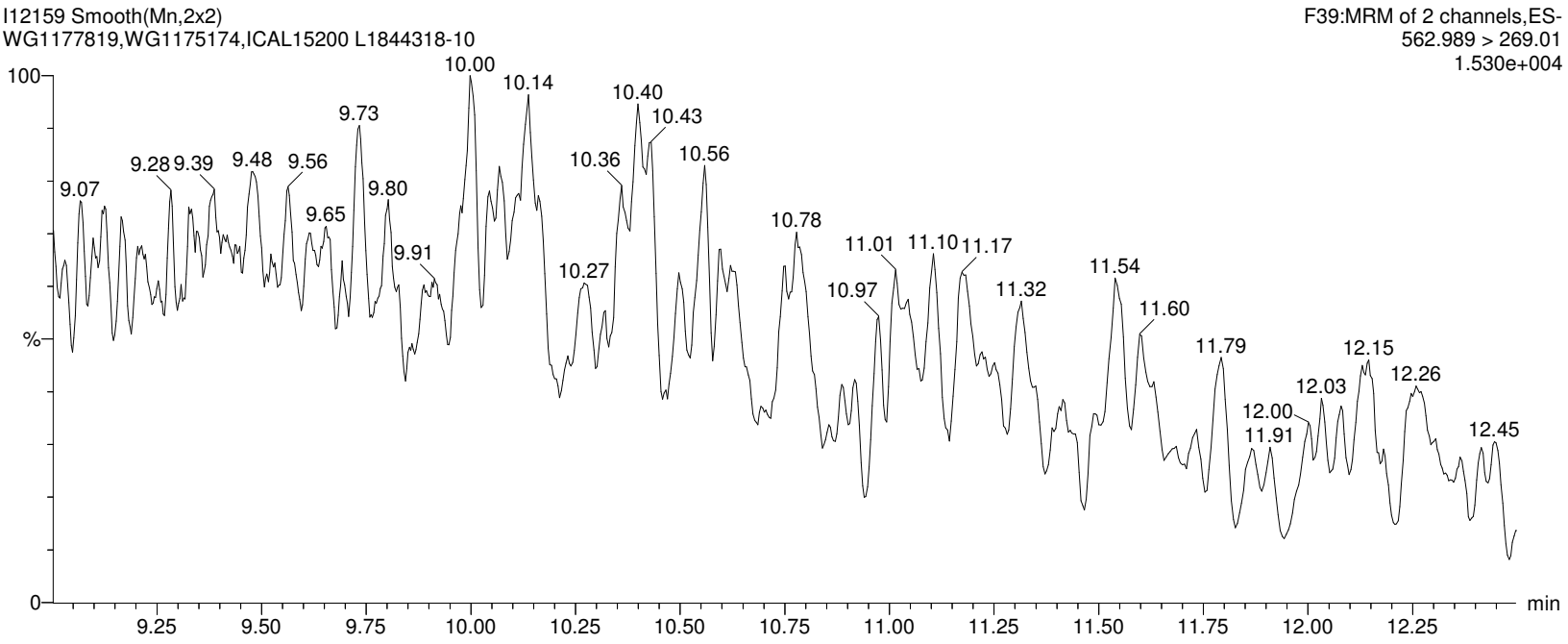

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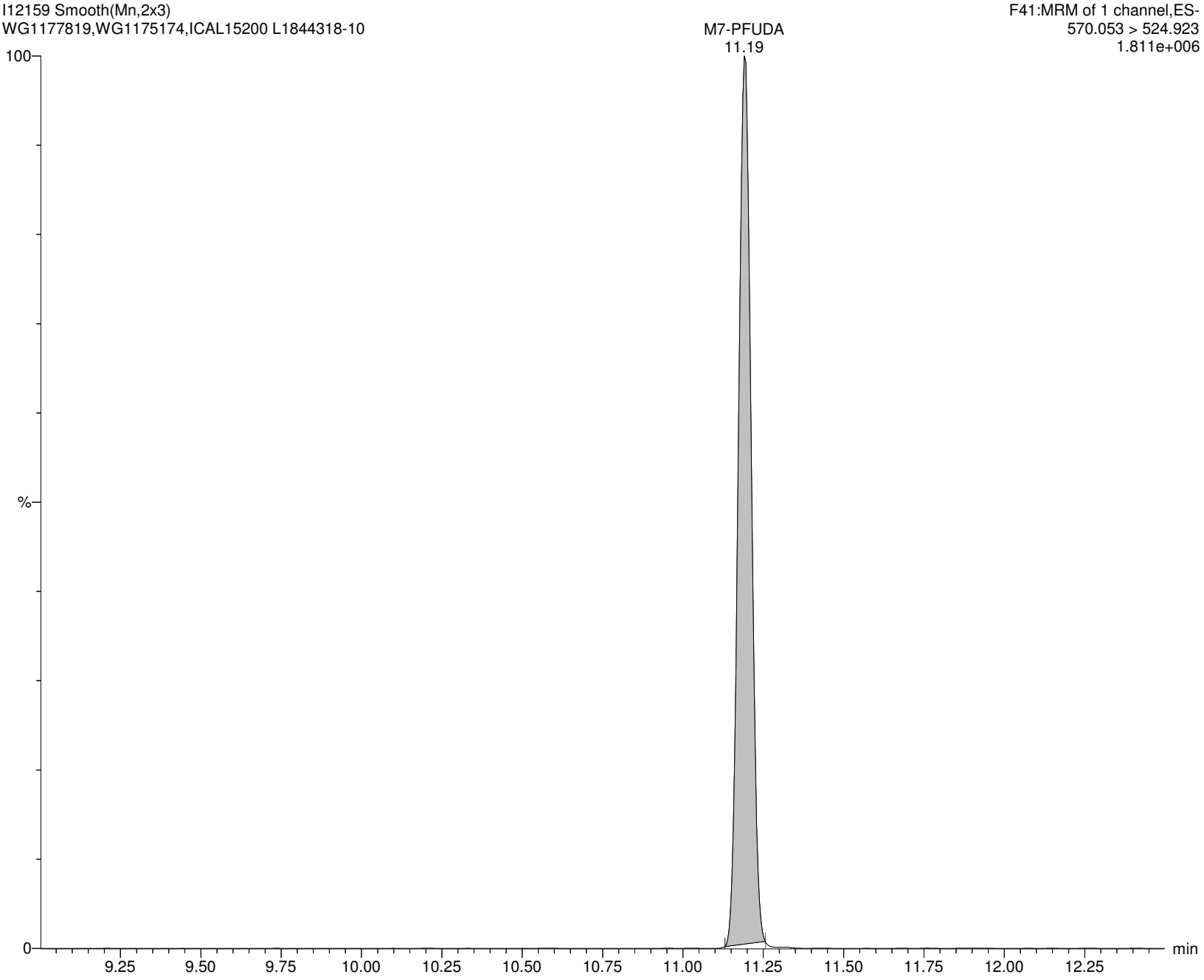
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:04 Eastern Standard Time

Name: I12159
ID: L1844318-10
Date: 10-Nov-2018
Time: 08:47:46
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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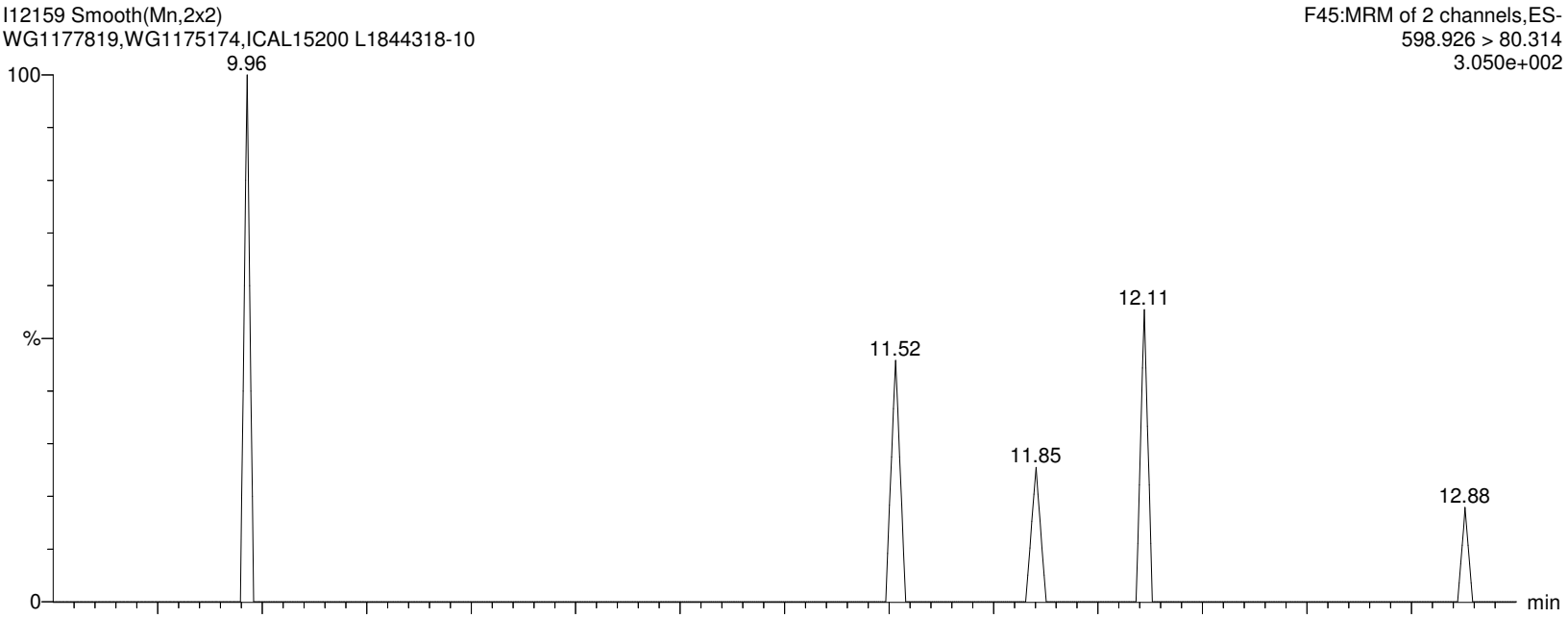

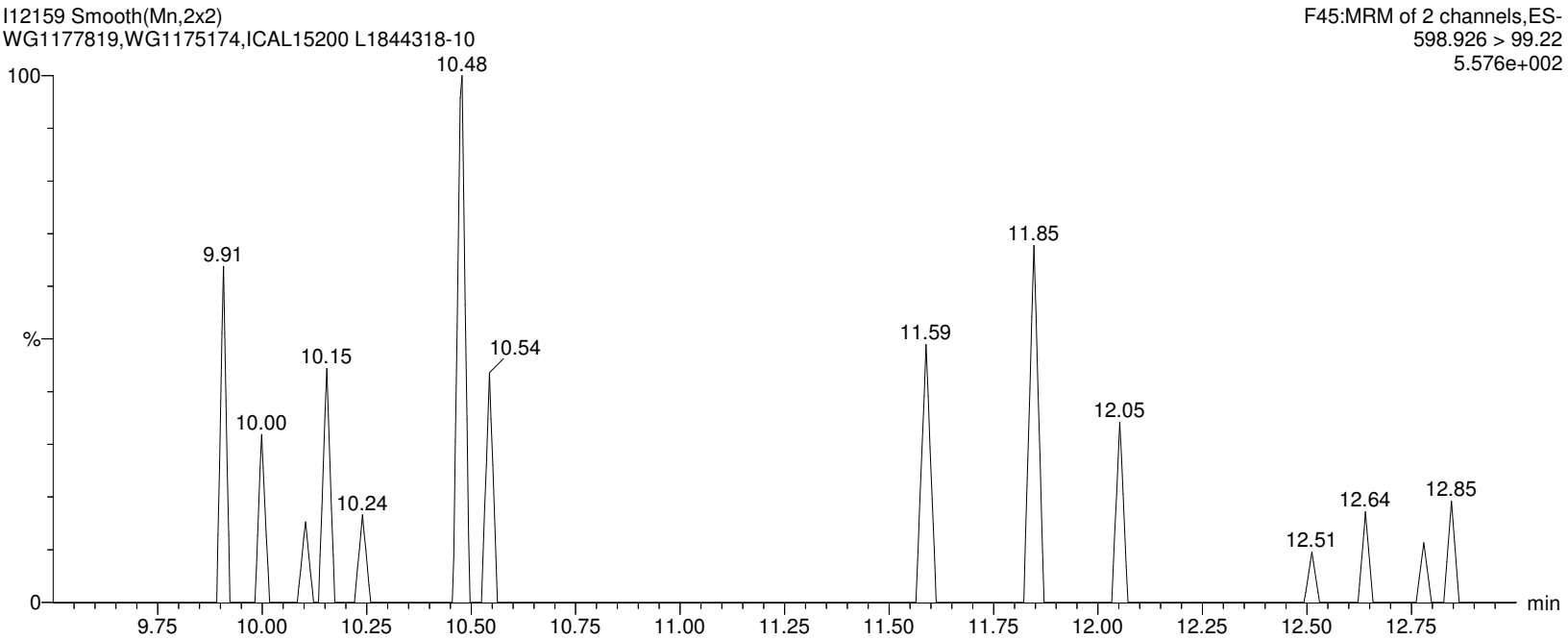

all concentration units in (ng/mL)

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User: LCMS01:AJ
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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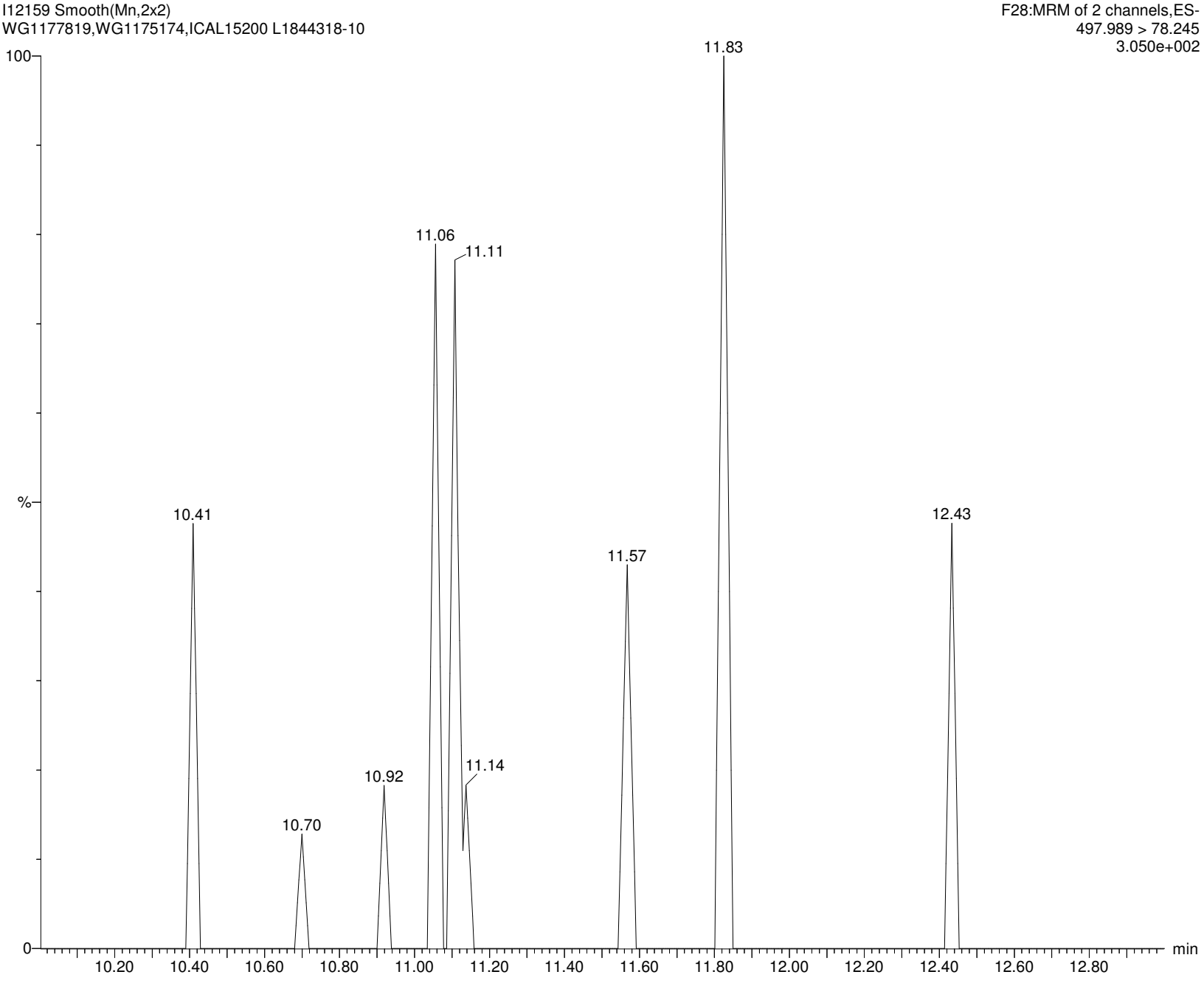
FOSA



all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEA0276
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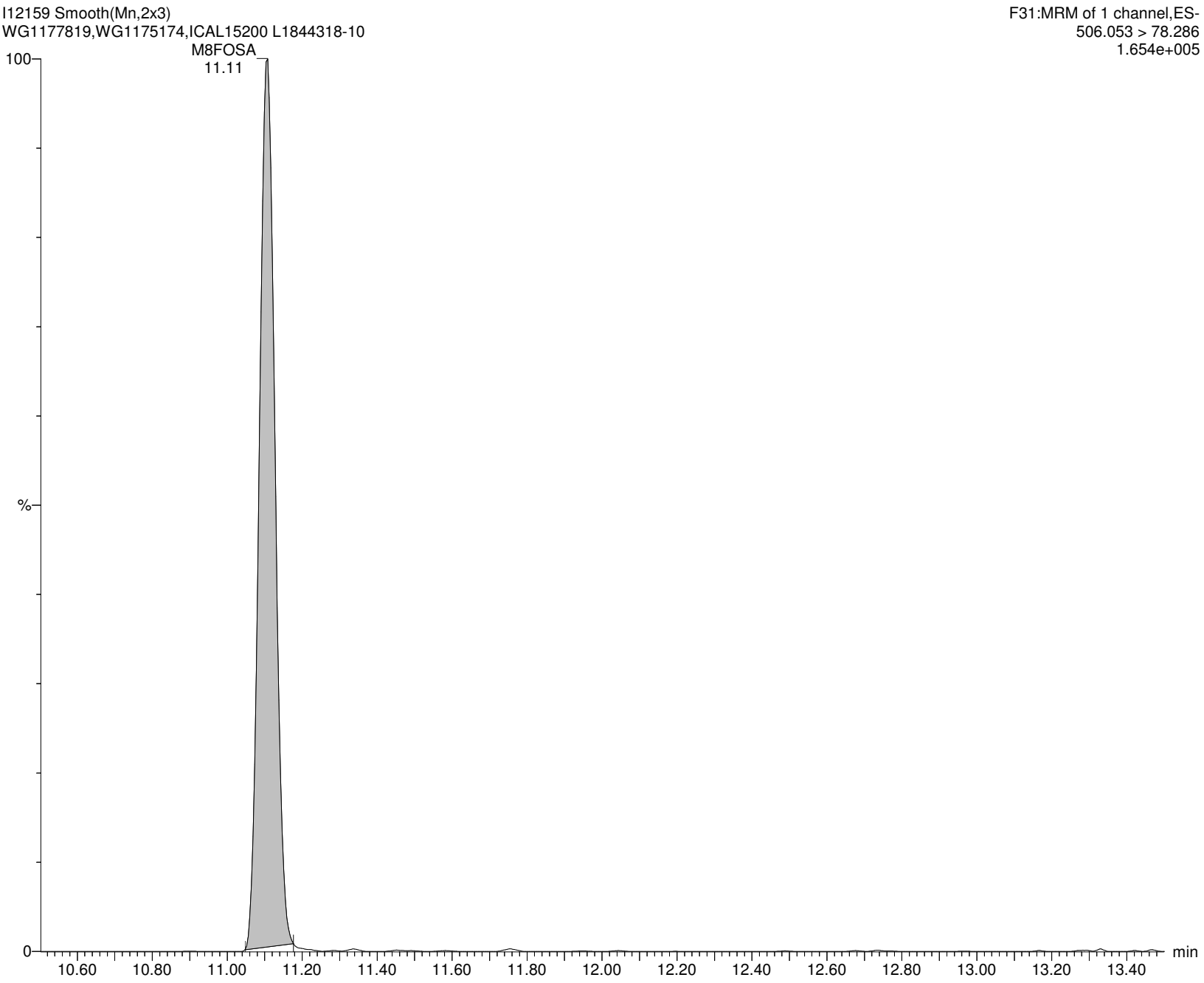
M8FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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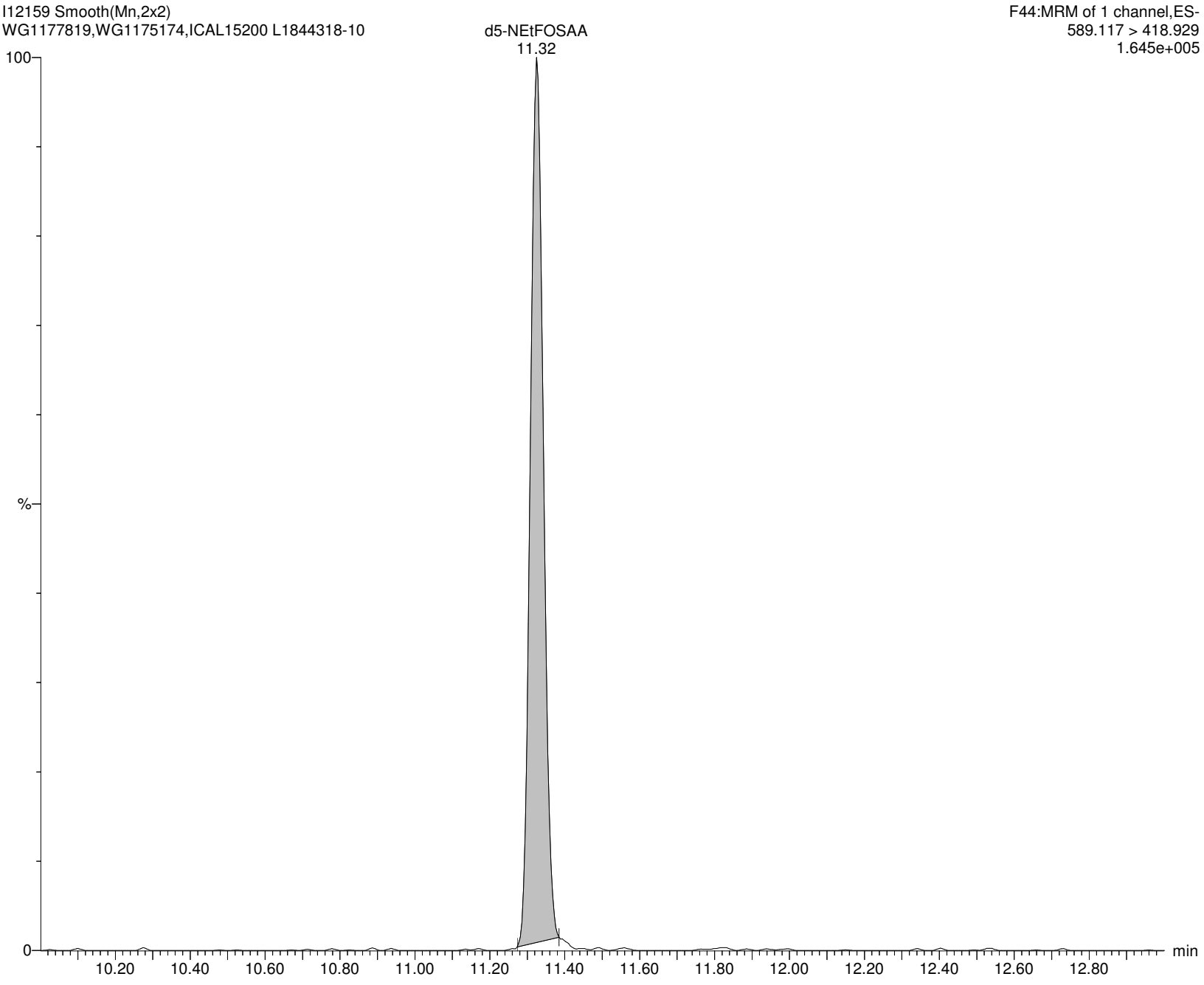
d5-NEtFOSAA



all concentration units in (ng/mL)

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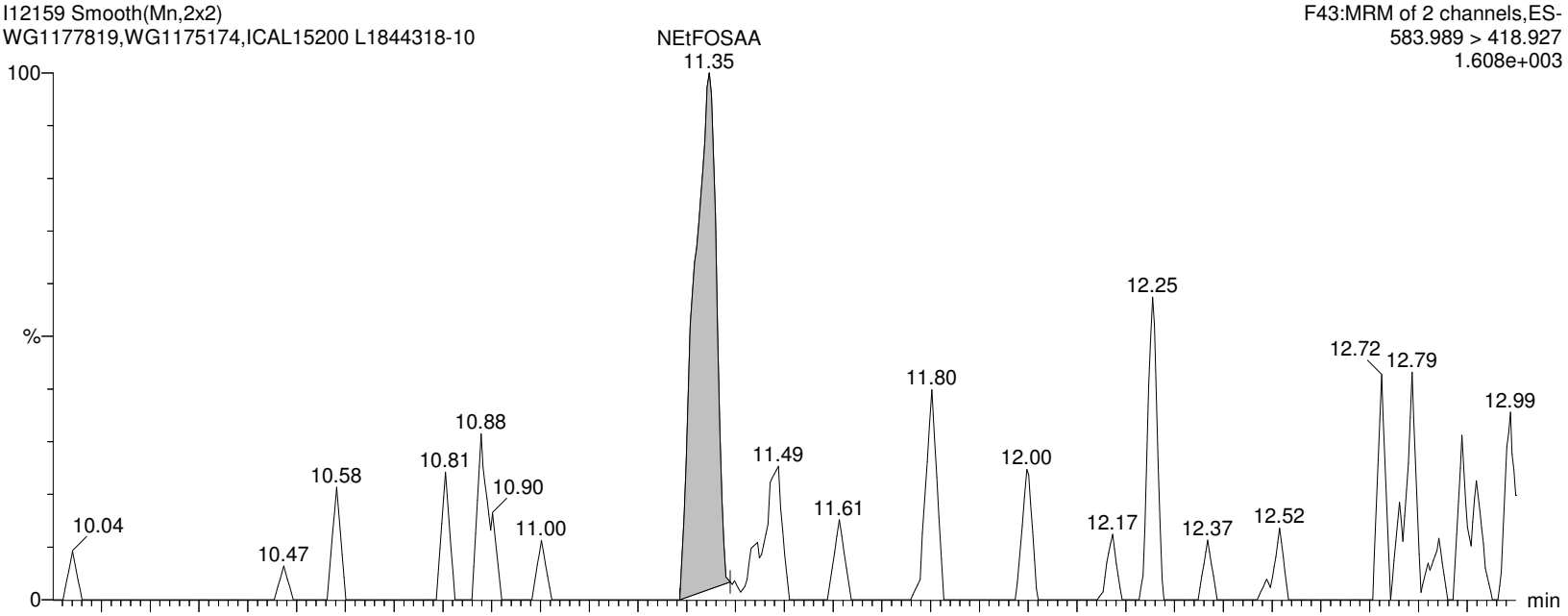

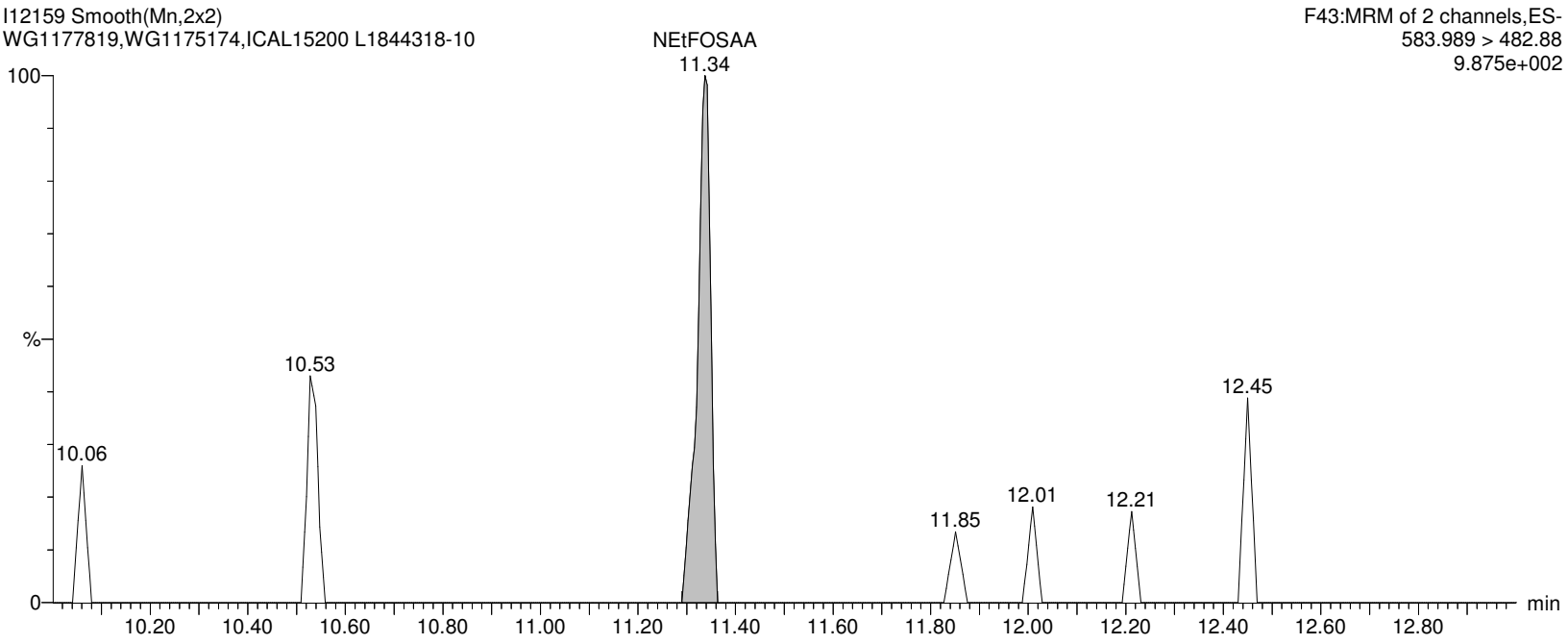

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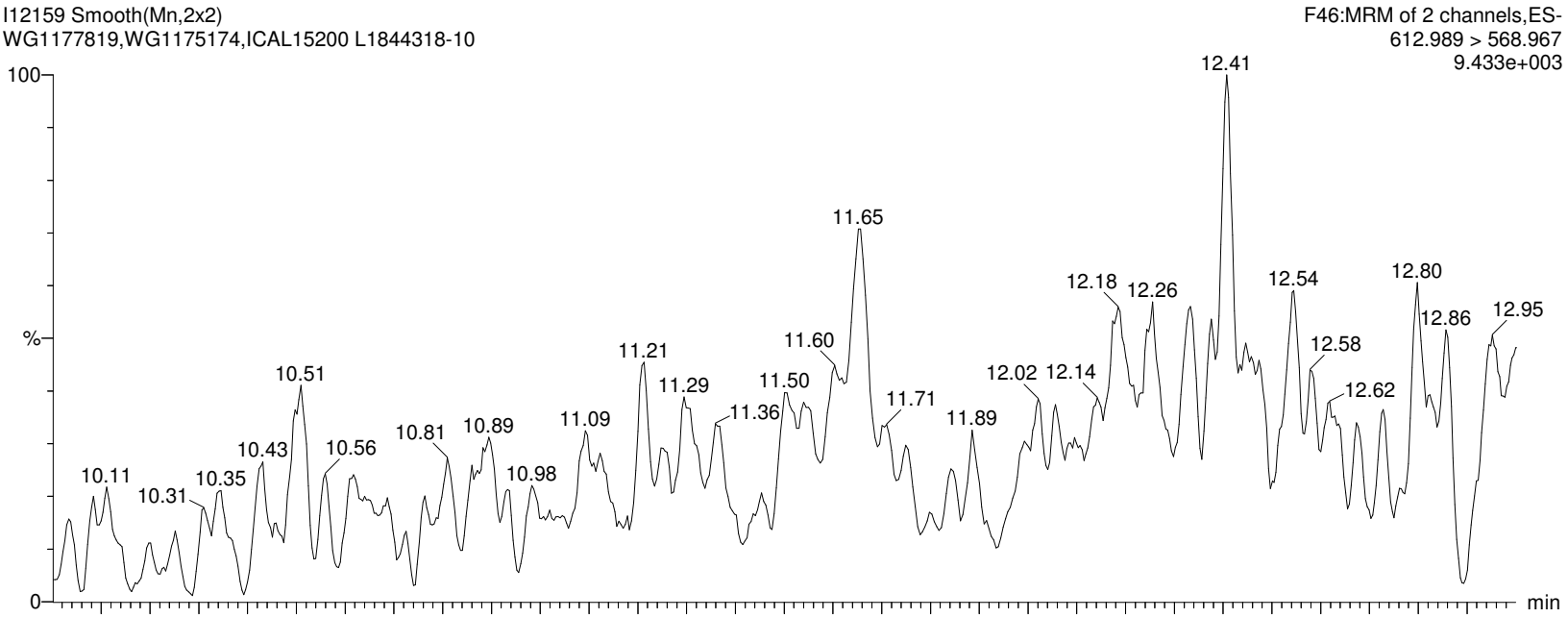

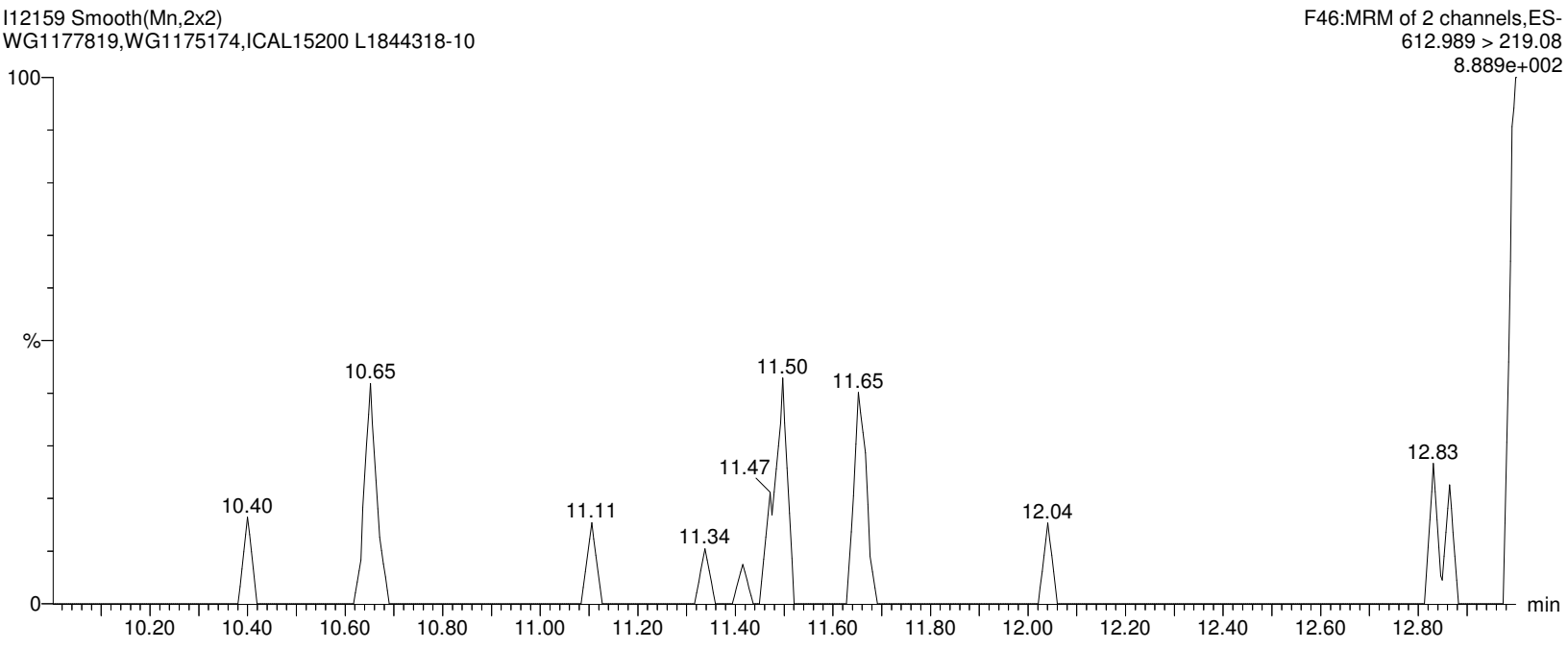

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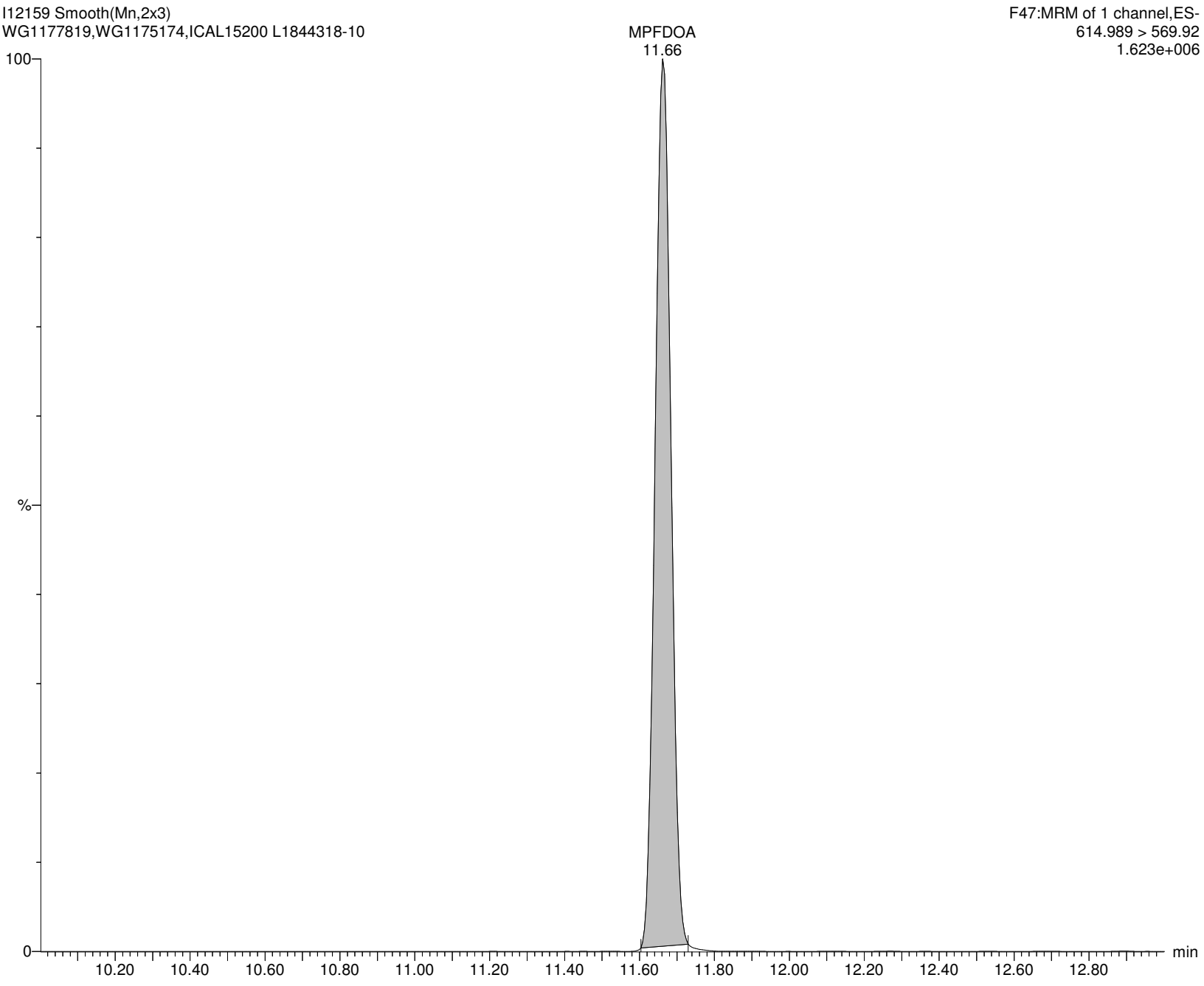

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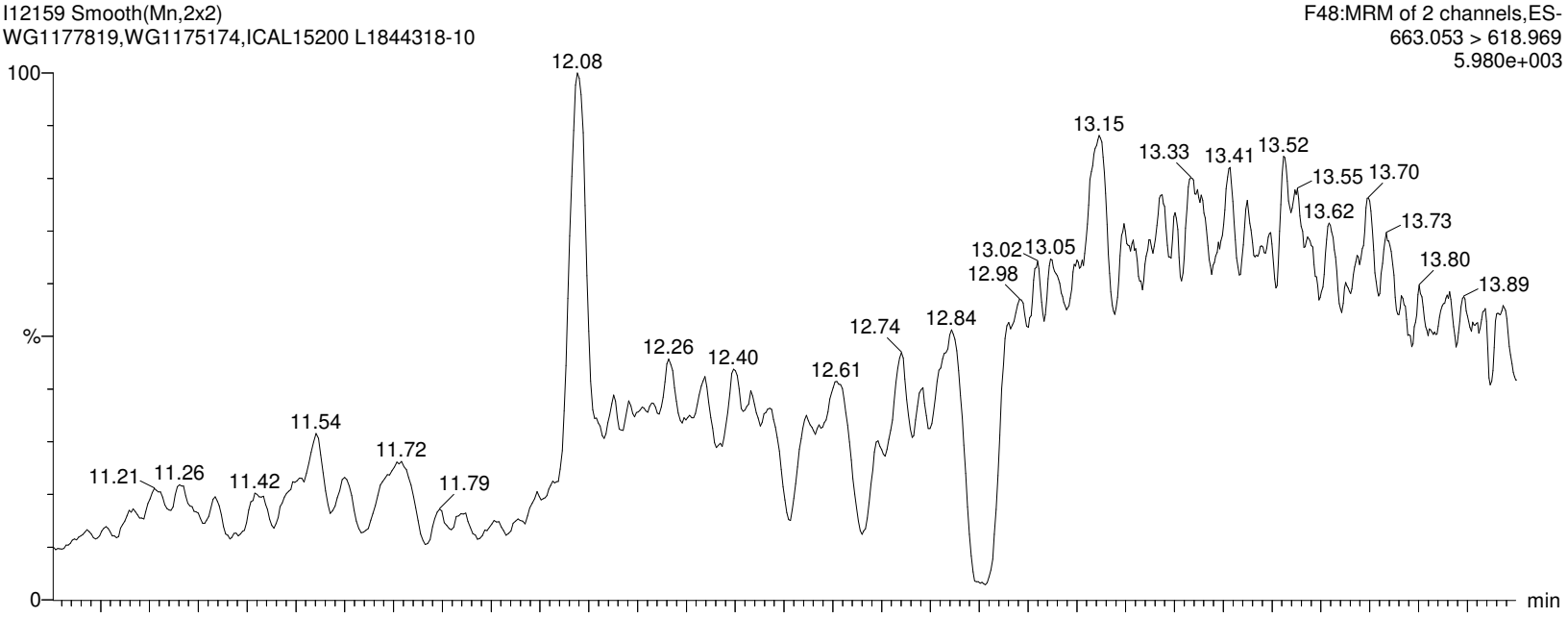

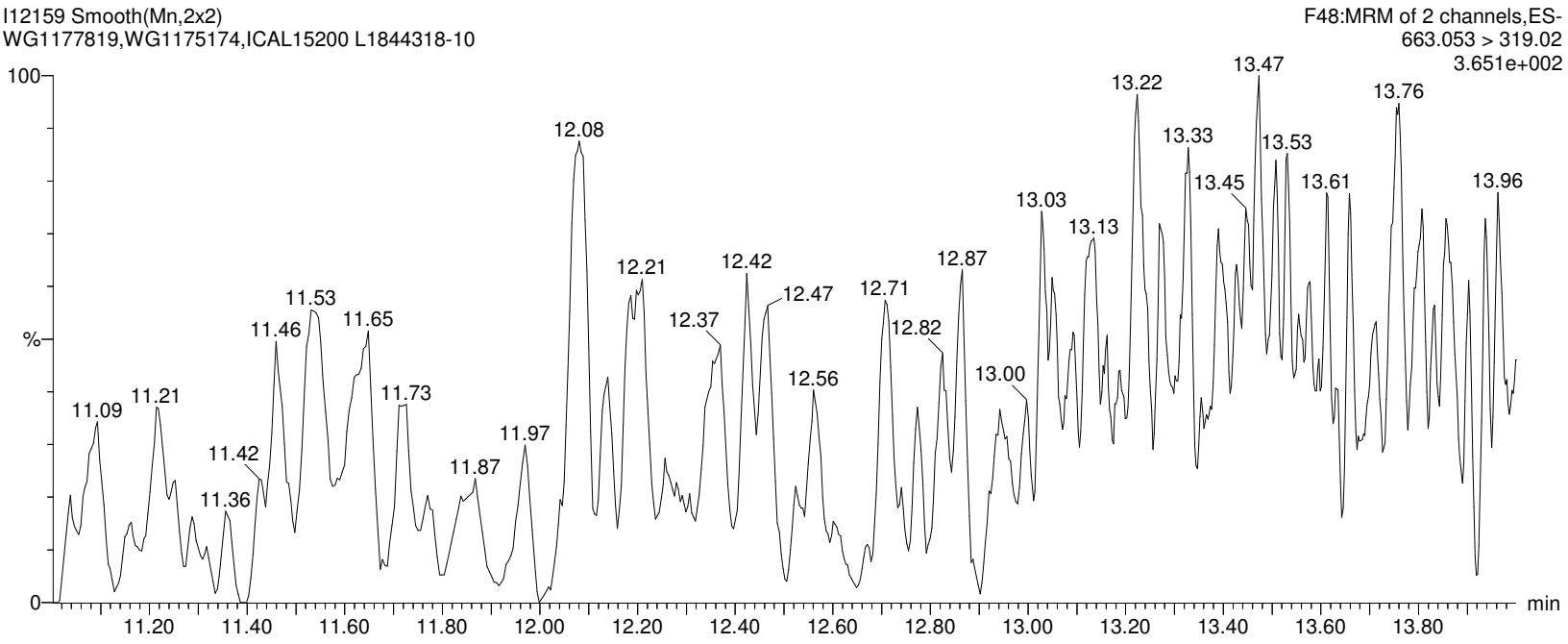

all concentration units in (ng/mL)

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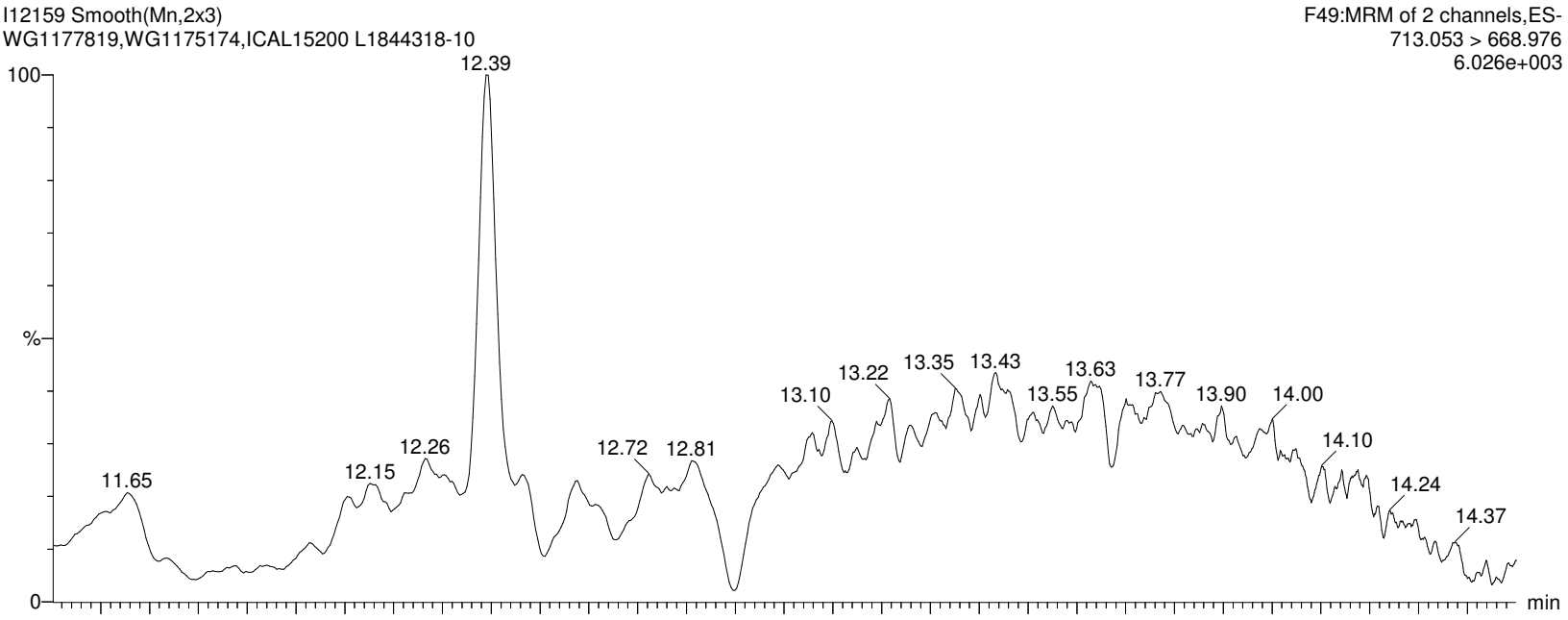
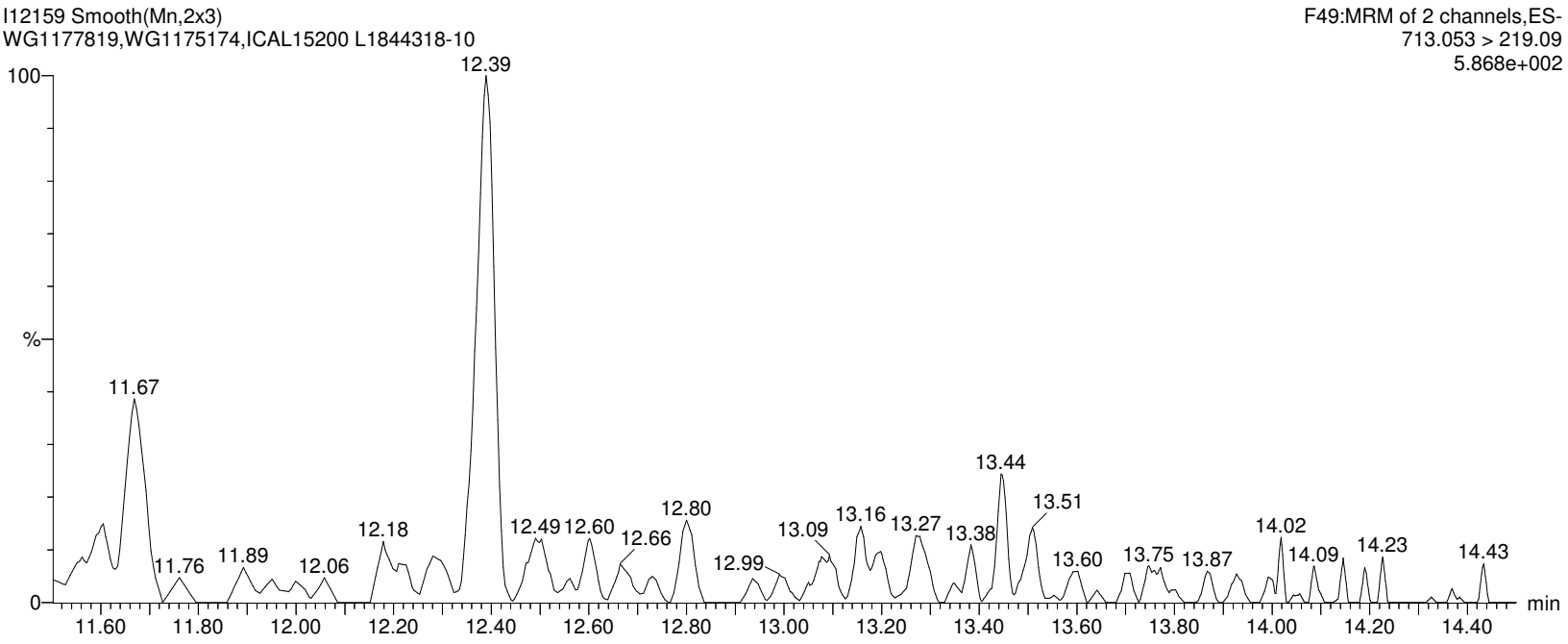
PFTA





all concentration units in (ng/mL)

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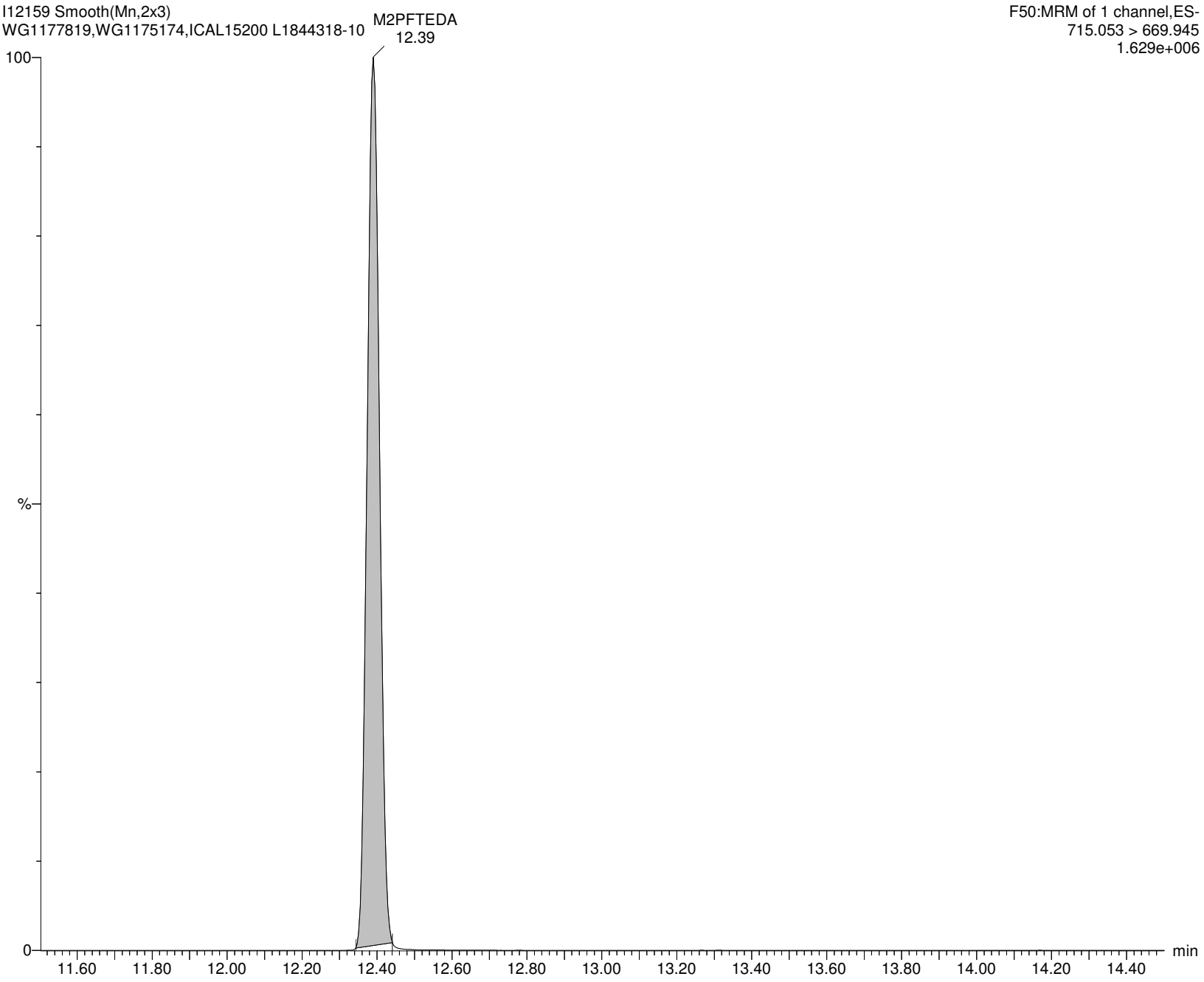

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: L1844318-11
Name: I12160
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.16	215.926 > 172.122	32619		3.524		na	35.2
3	MPFBA	INT STD	2.16	216.926 > 172.137	33412		10.784		na	107.8
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	49767		12.446		na	124.5
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	10362		7.851		na	78.5
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	10565		12.905		na	129.0
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	67763		8.579		na	85.8
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	93887		10.108		na	101.1
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	8209		11.198		na	112.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	445		0.047	8.95	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	109642		5.807		na	58.1
22	PFOA	335-67-1		412.989 > 368.9	445		0.047		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	97730		11.053		na	110.5
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	769		1.120		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	6847		10.075		na	100.8
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	88525		10.038		na	100.4
29	br-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
31	PFOS	1763-23-1		498.989 > 80.294	0		ND		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10588		6.536		na	65.4
33	M8PFOS	INT STD	10.07	507.053 > 80.294	9896		10.023		na	100.2
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	88277		5.938		na	59.4
36	M6PFDA	INT STD	10.65	519.053 > 473.931	80396		10.087		na	100.9
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	3129		7.841		na	78.4
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Time: 09:04:25
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	8222		9.569		na	95.7
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	75491		11.316		na	113.2
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	7050		2.479		na	24.8
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	7195		8.681		na	86.8
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.65	614.989 > 569.92	73961		9.867		na	98.7
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.38	715.053 > 669.945	60480		10.893		na	108.9

all concentration units in (ng/mL)

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User: LCMS01:AJ
Vial: 1:D,4
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Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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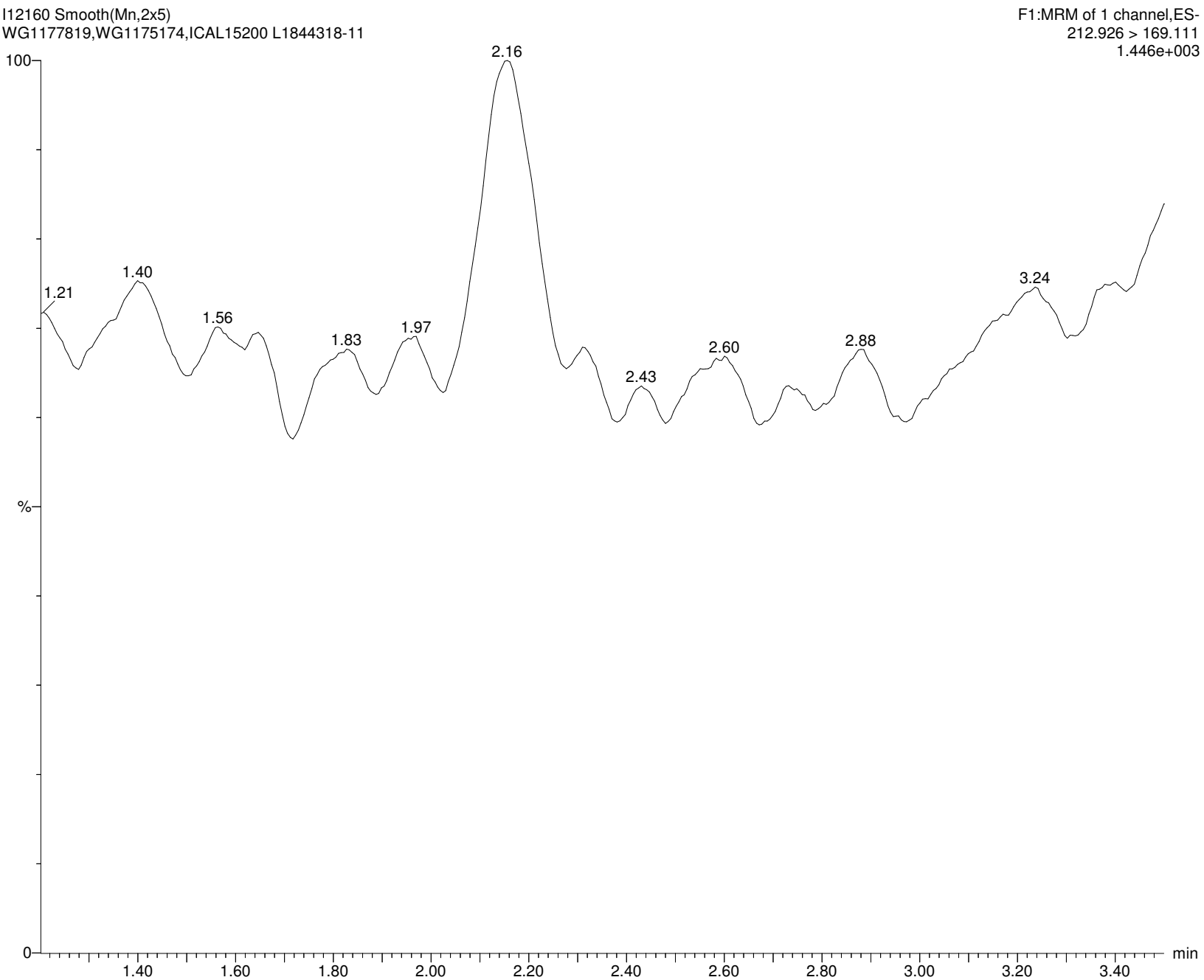

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
Instrument: XEVO-TQSmicro#QEA0276
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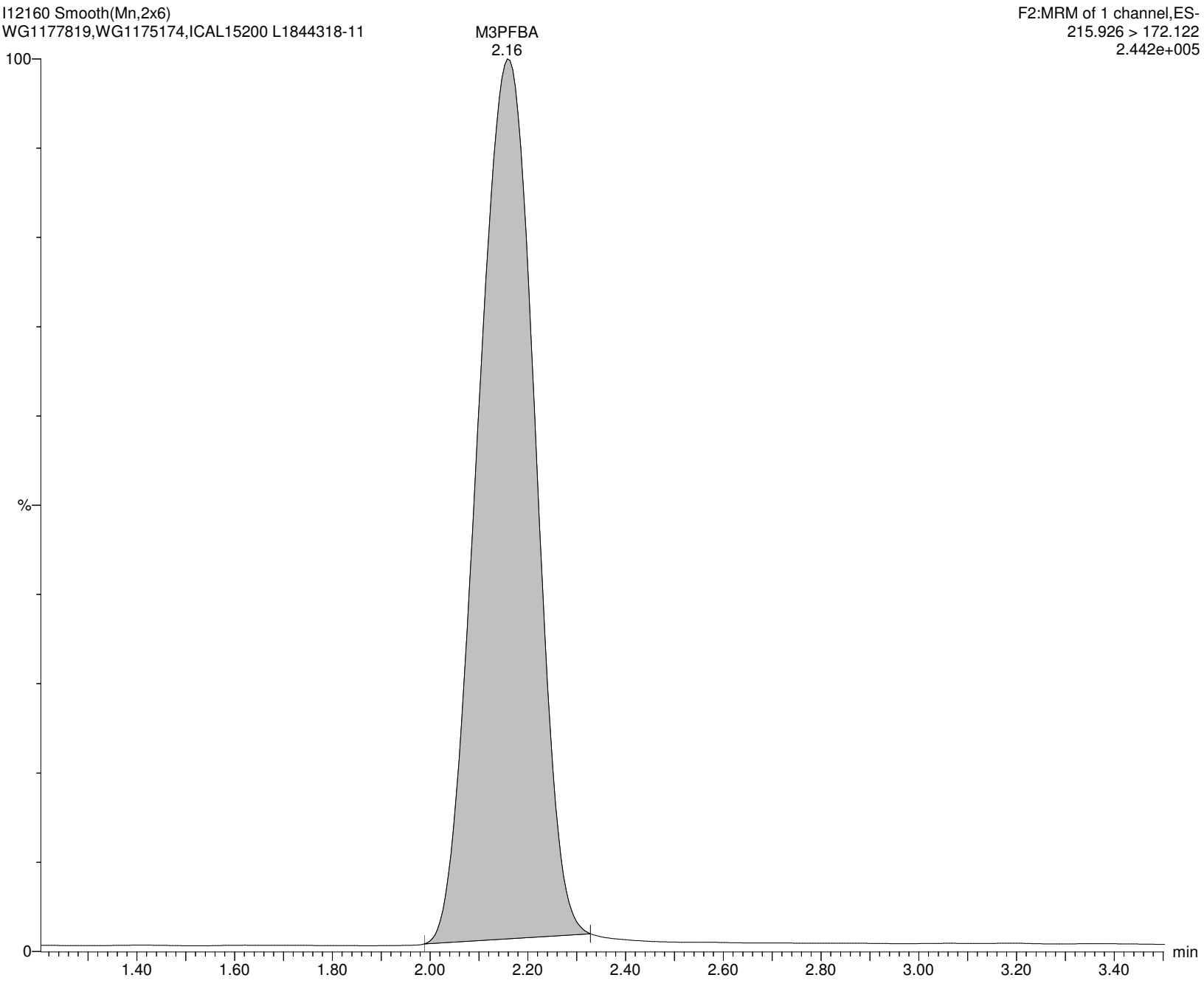

all concentration units in (ng/mL)

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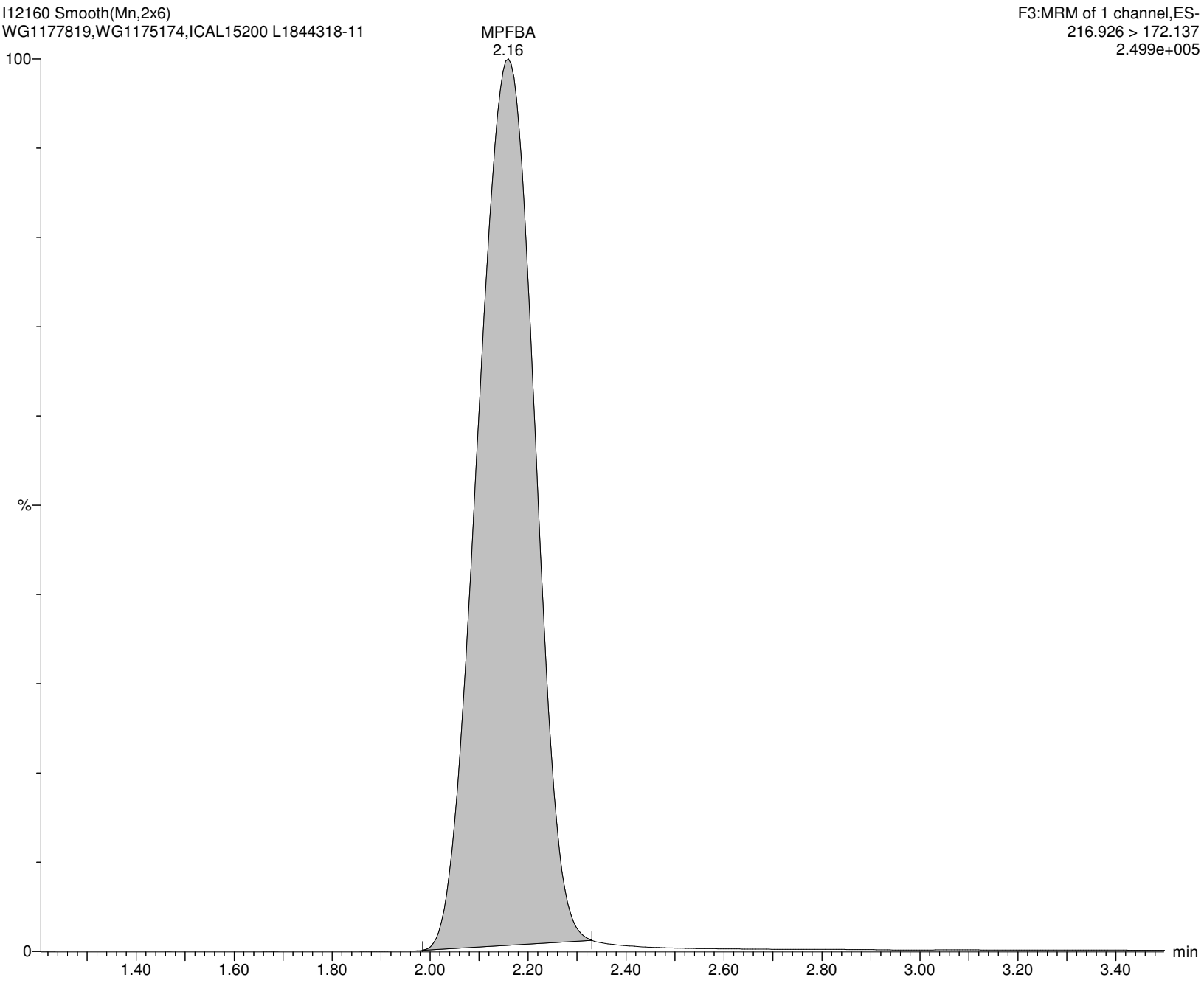

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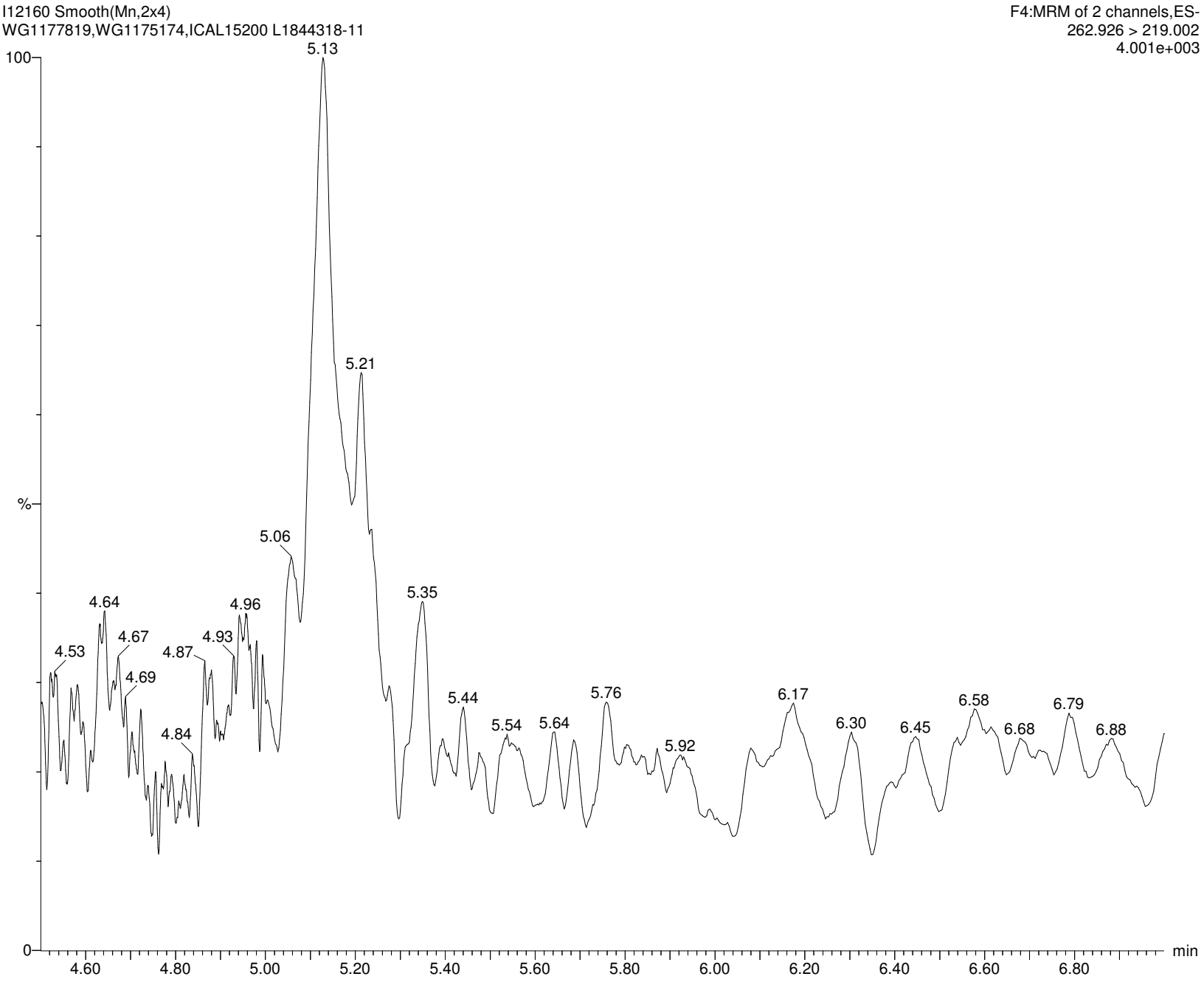

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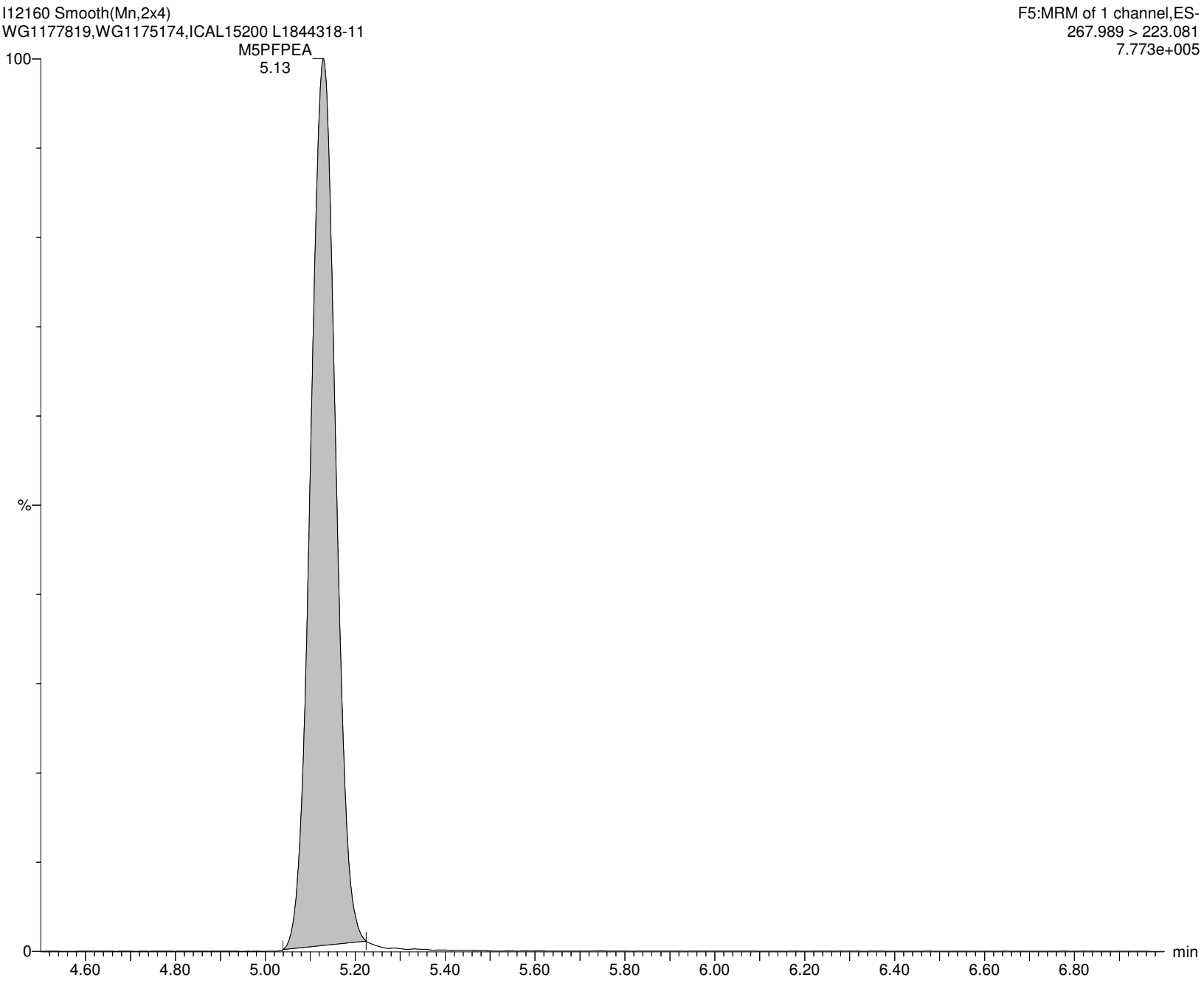

all concentration units in (ng/mL)

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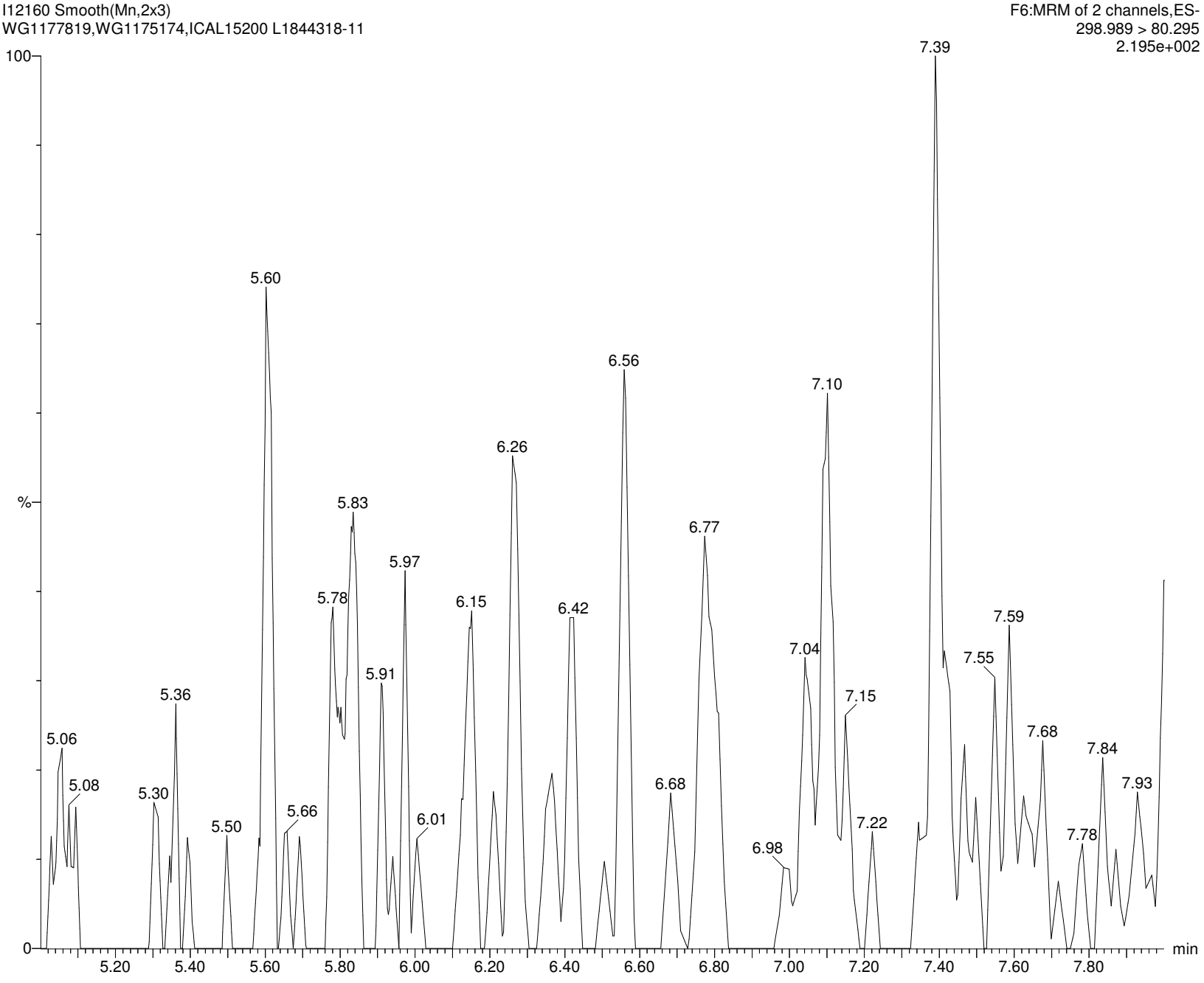

all concentration units in (ng/mL)

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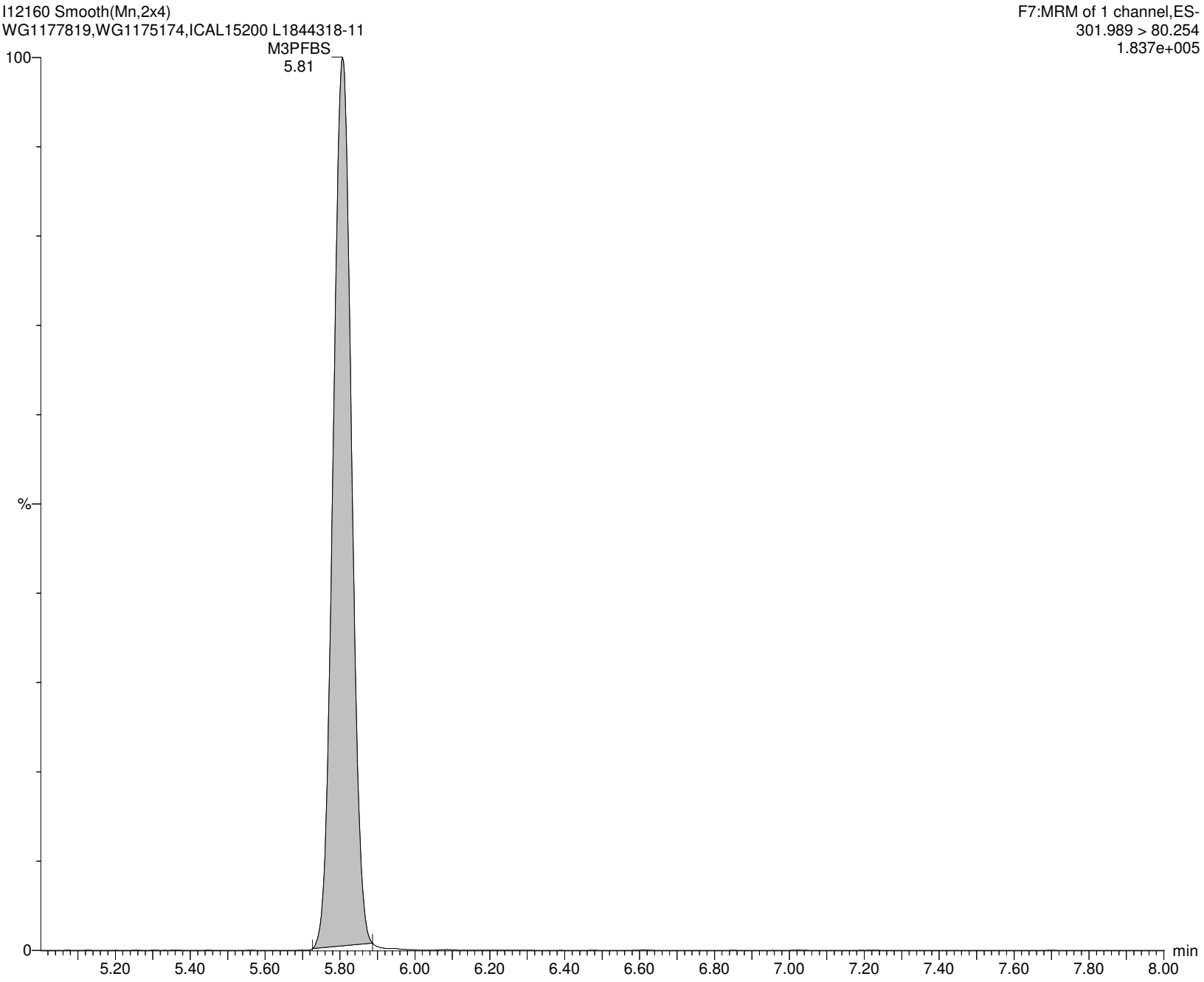

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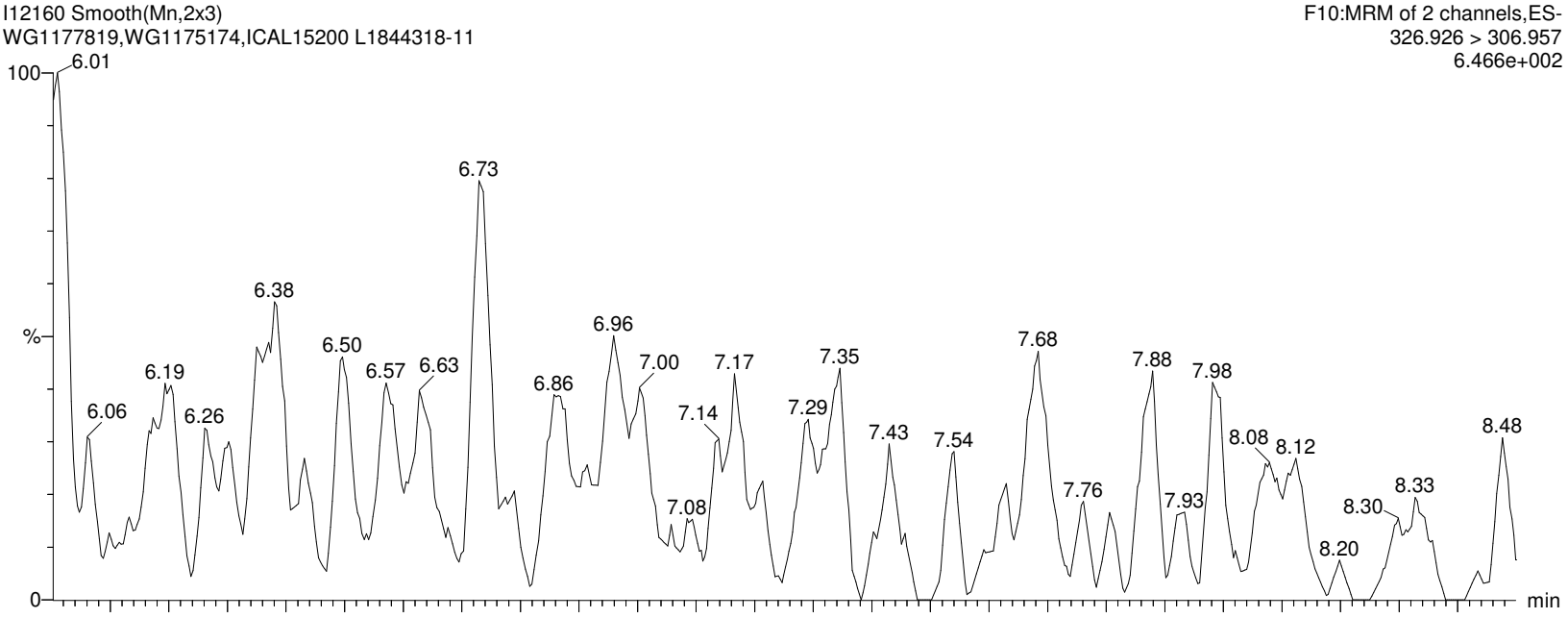
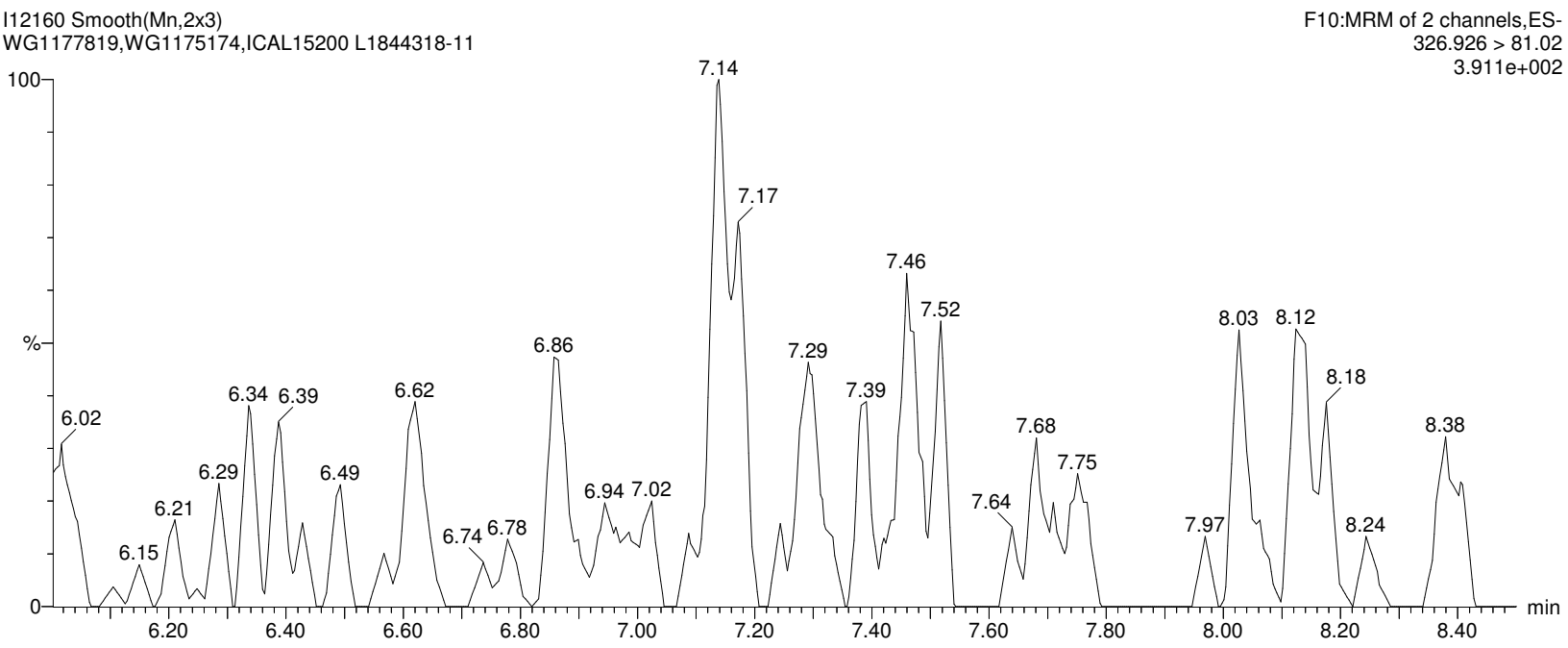
4:2FTS





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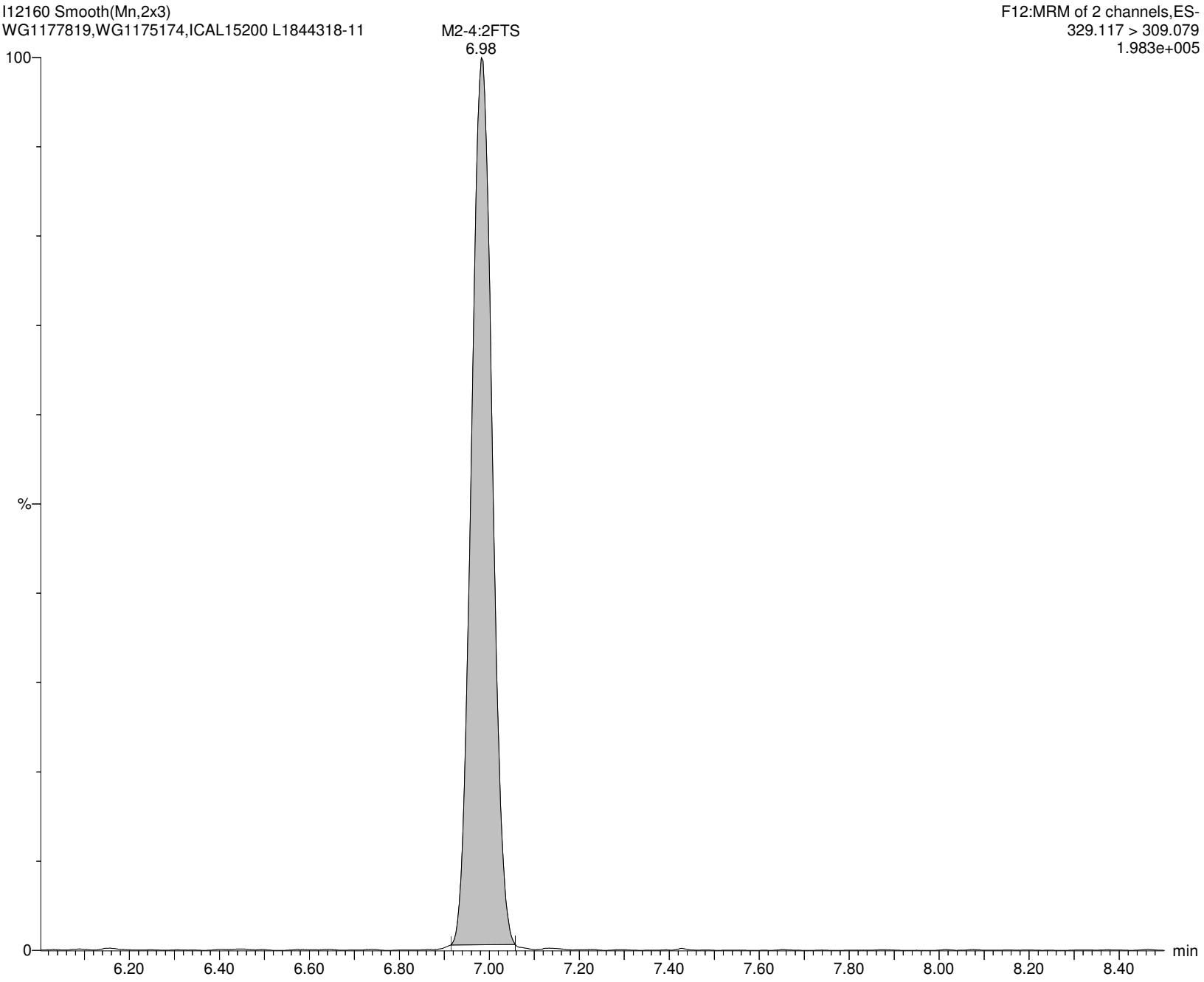

all concentration units in (ng/mL)

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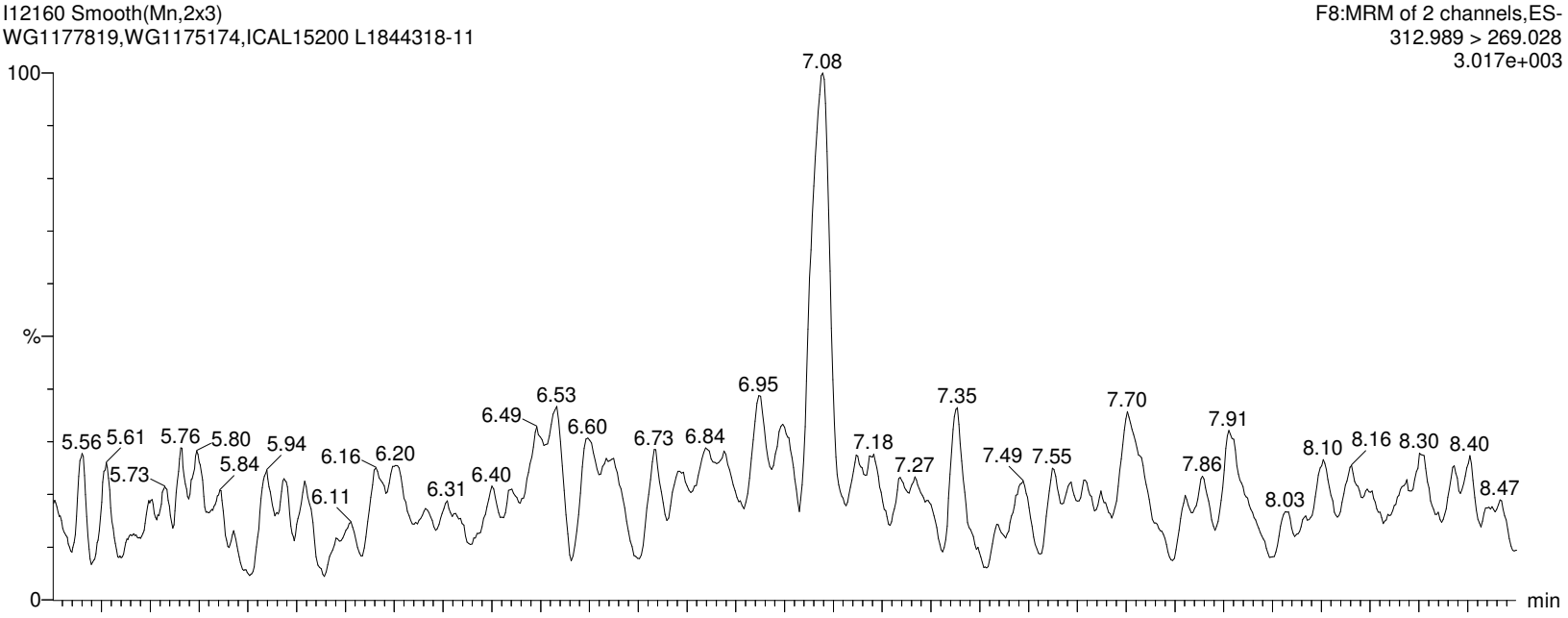

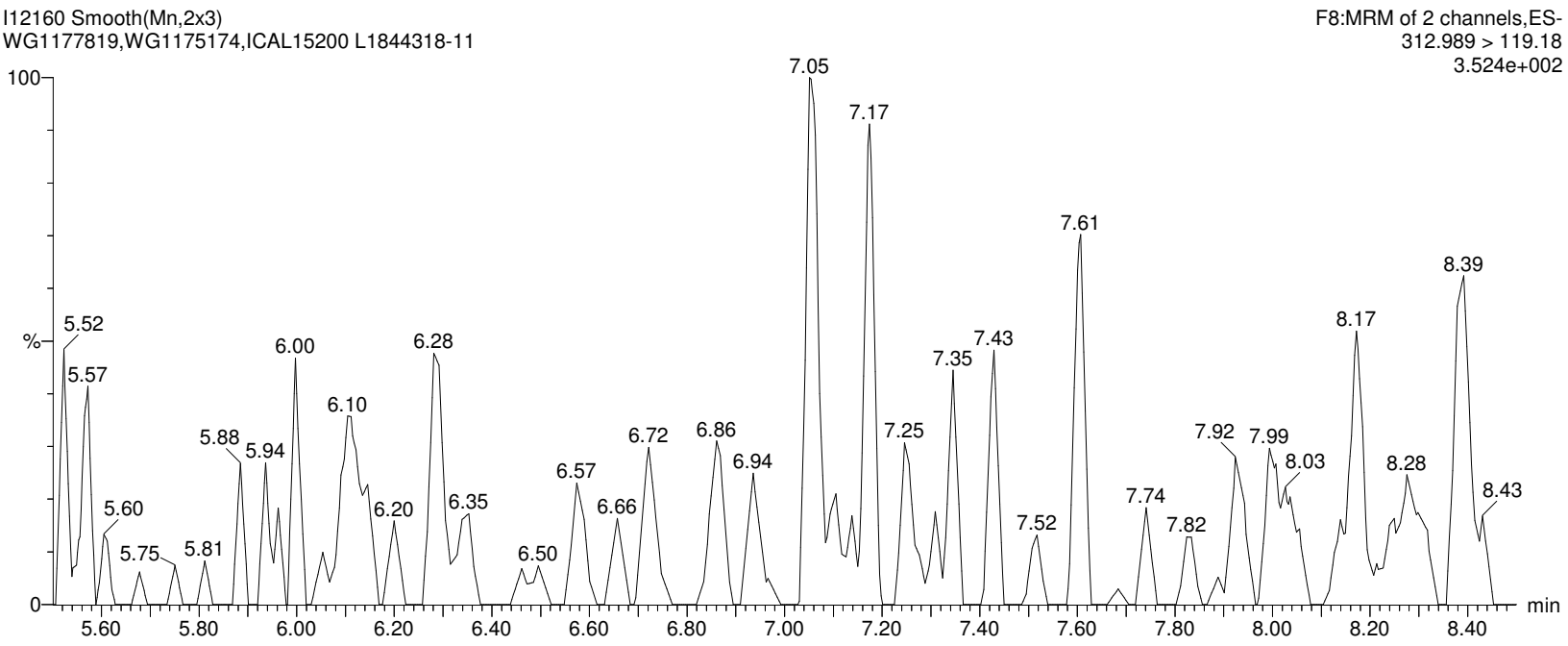

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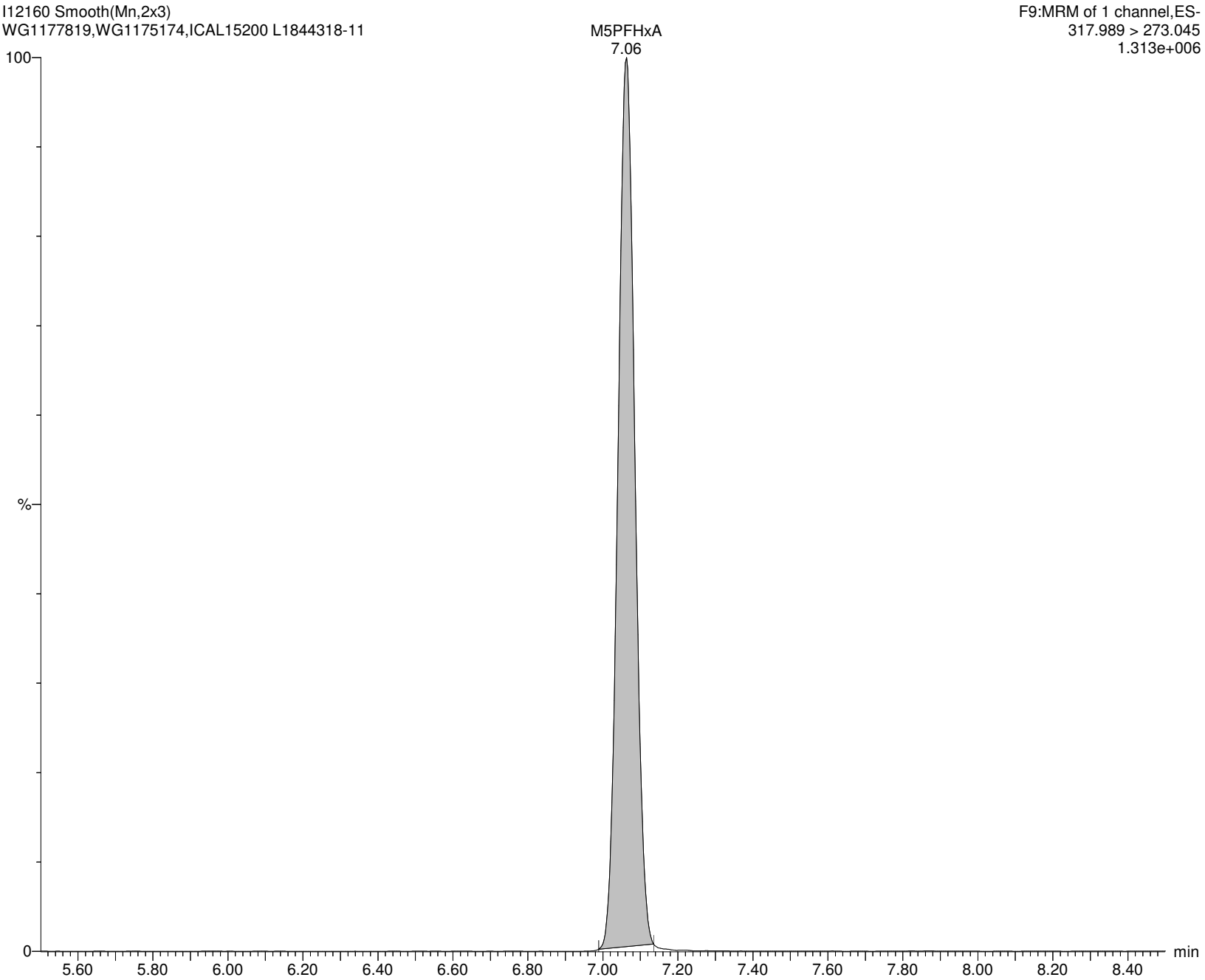

all concentration units in (ng/mL)

Alpha Analytical Inc.
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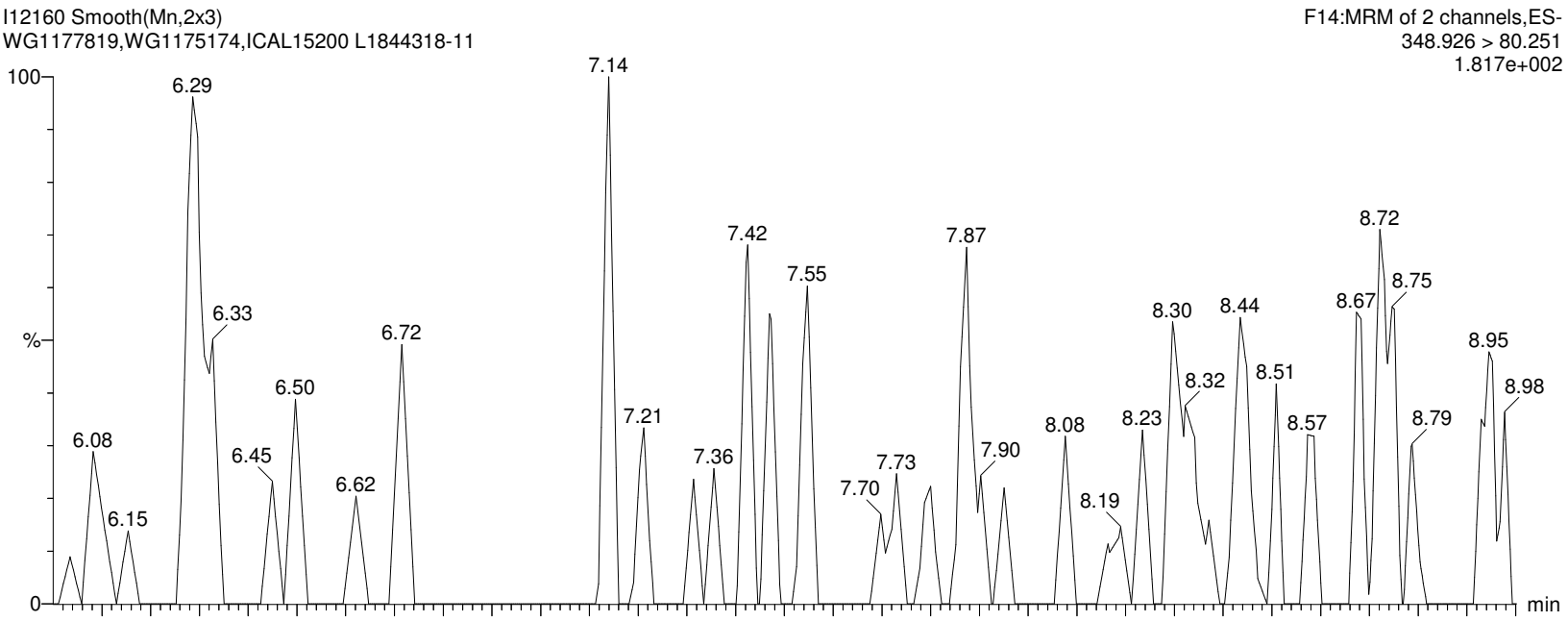
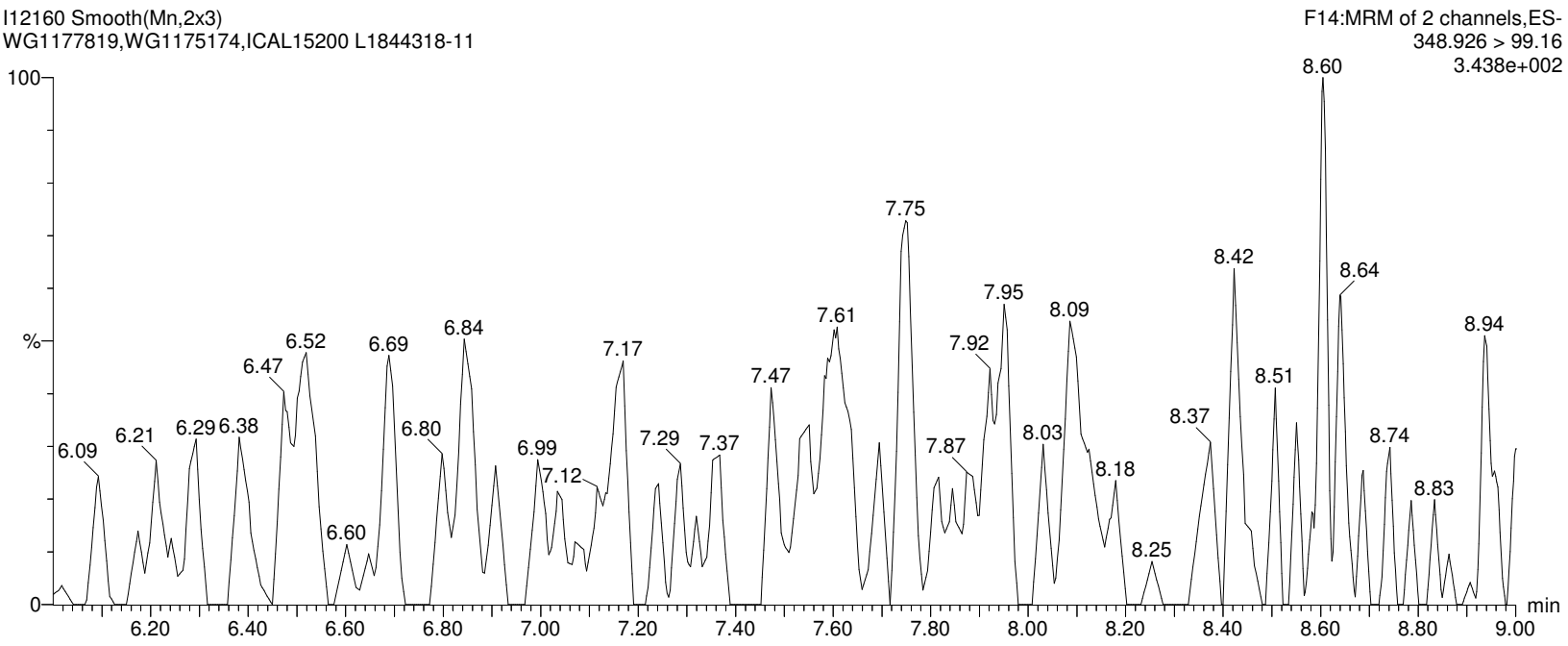
PFPeS





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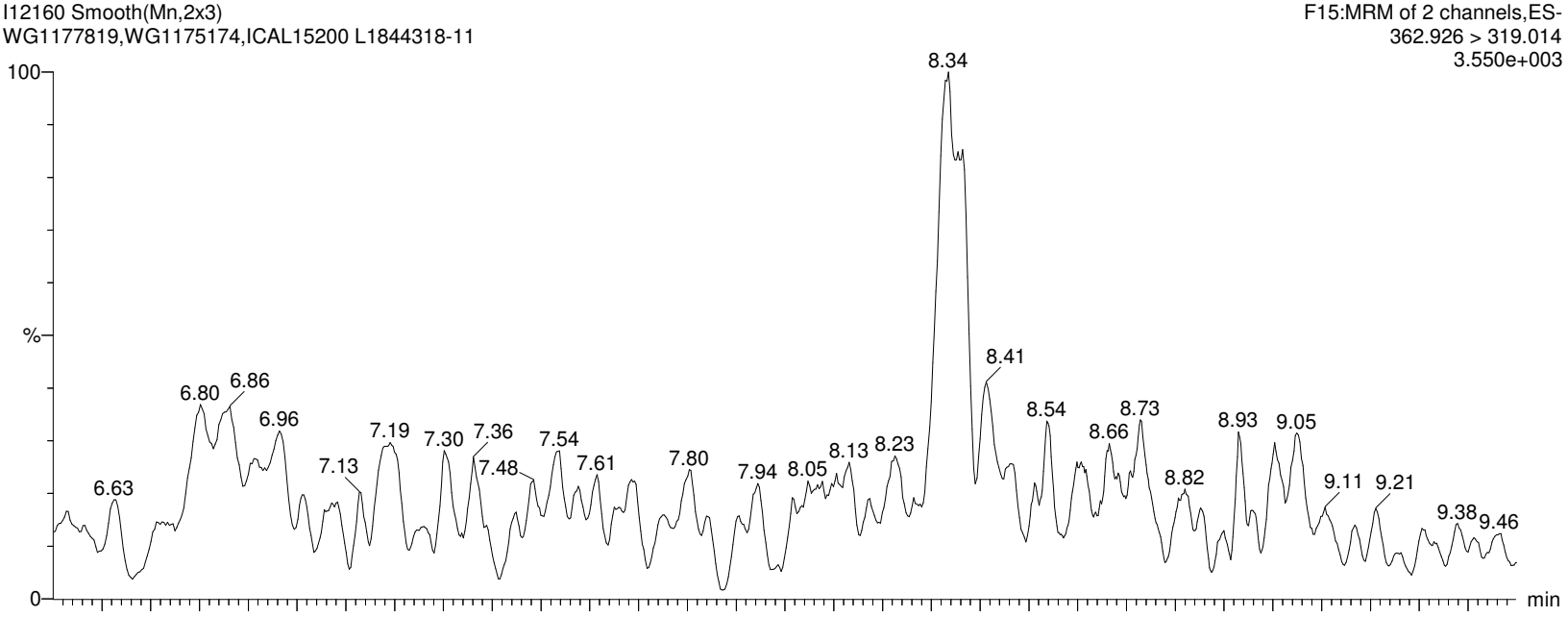

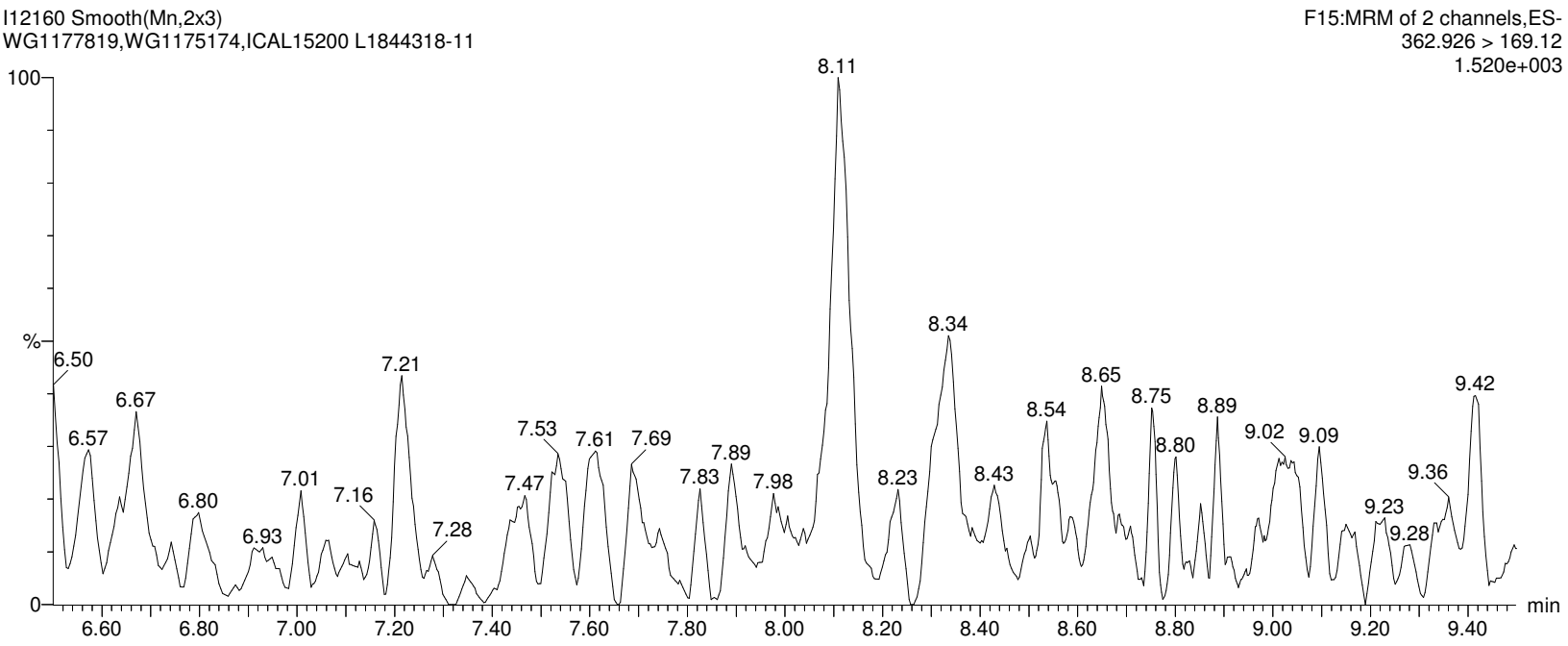

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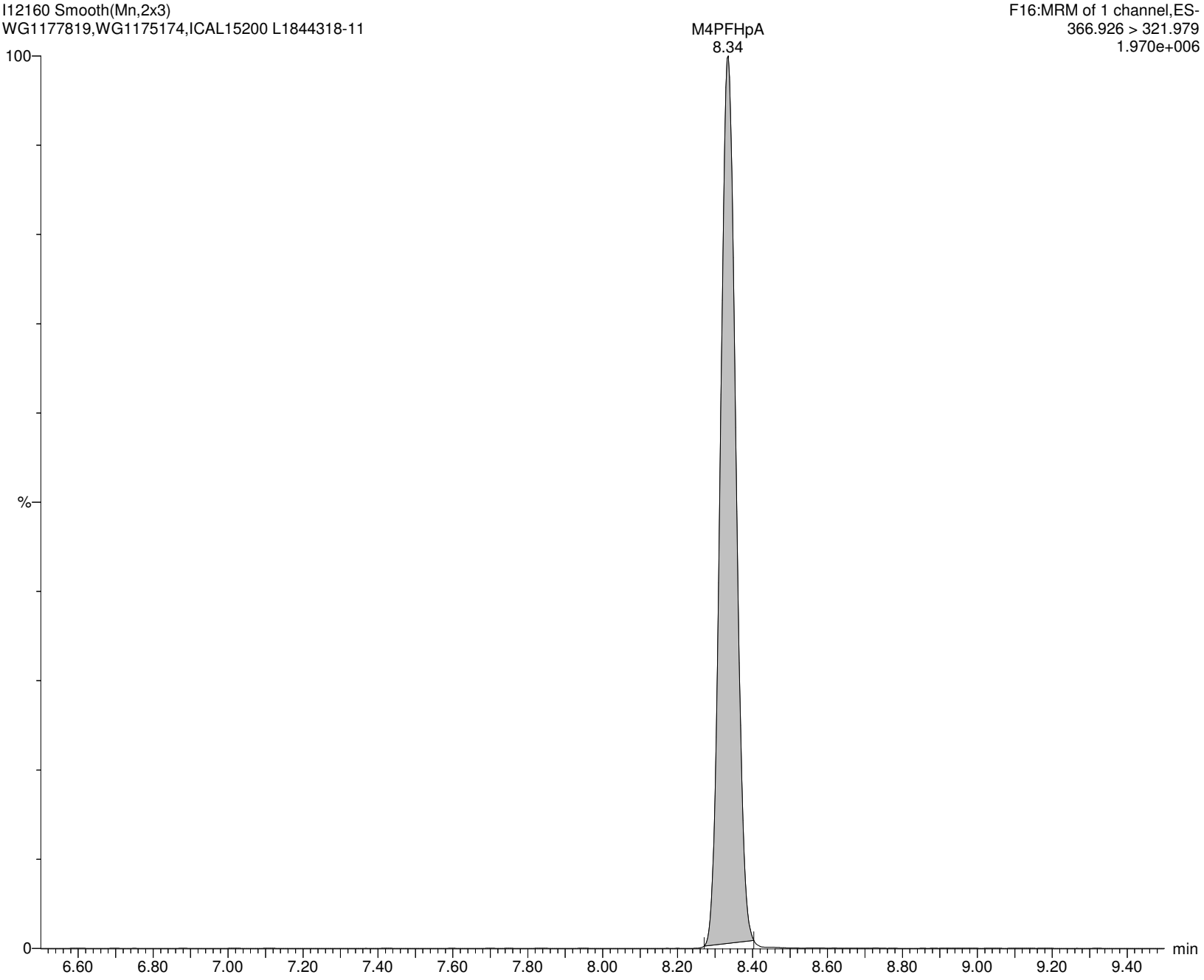

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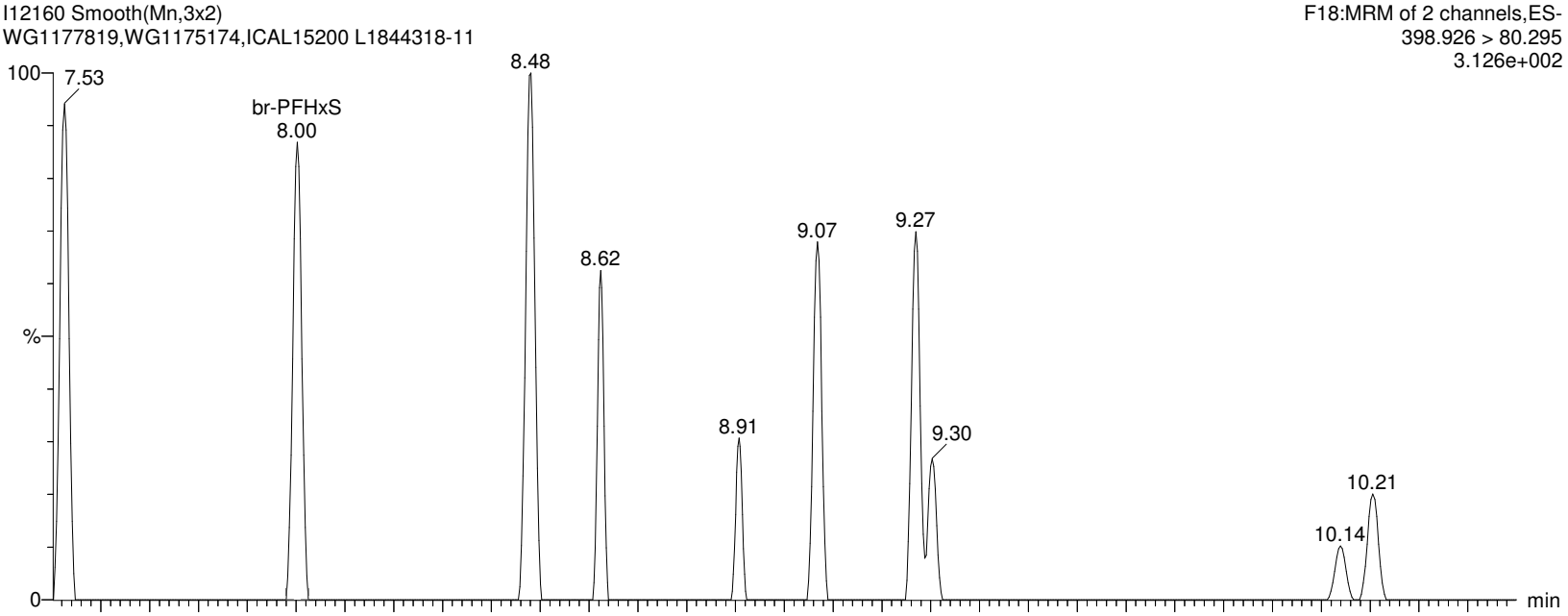

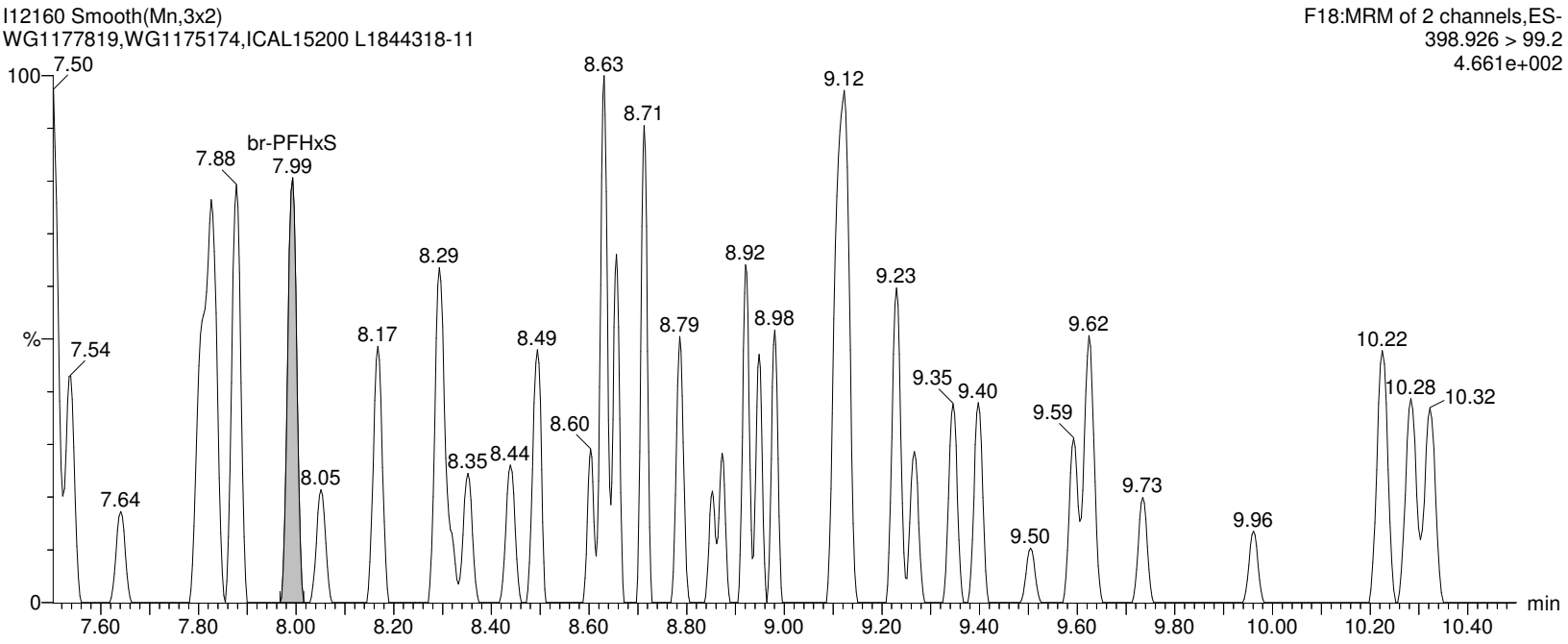

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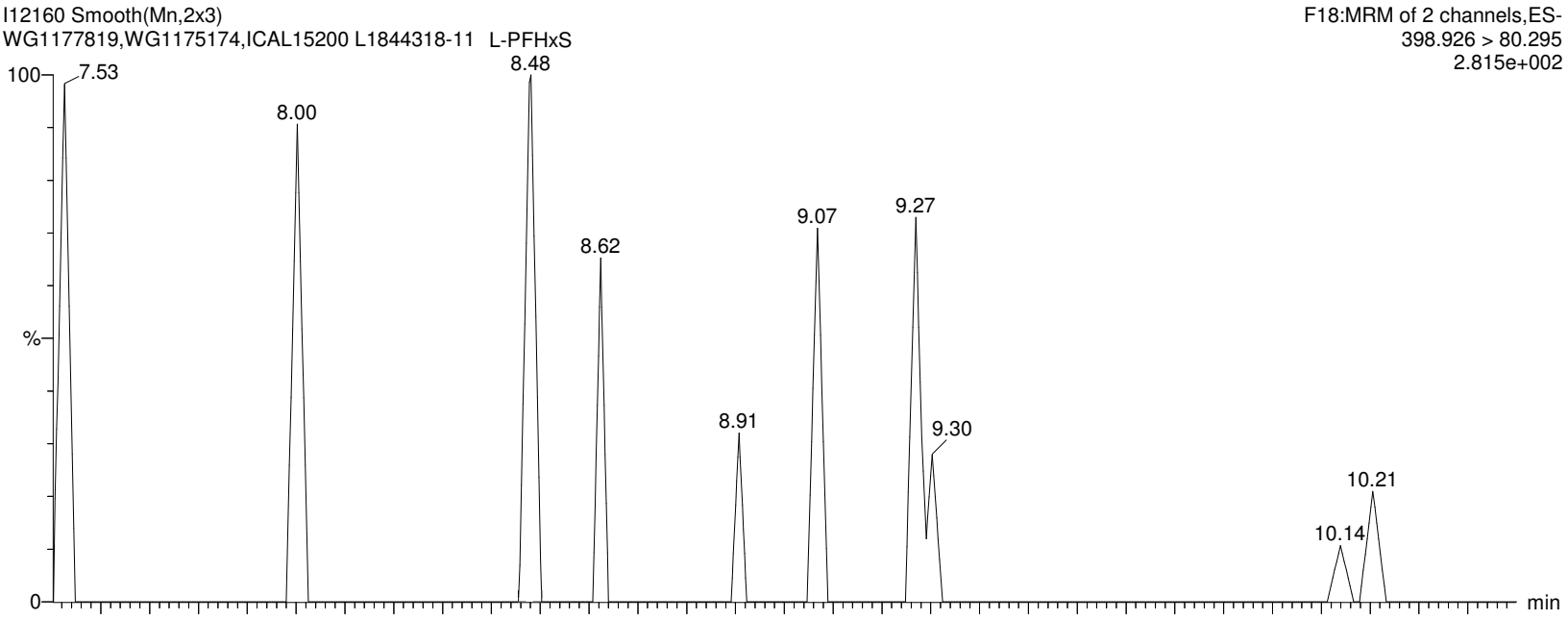
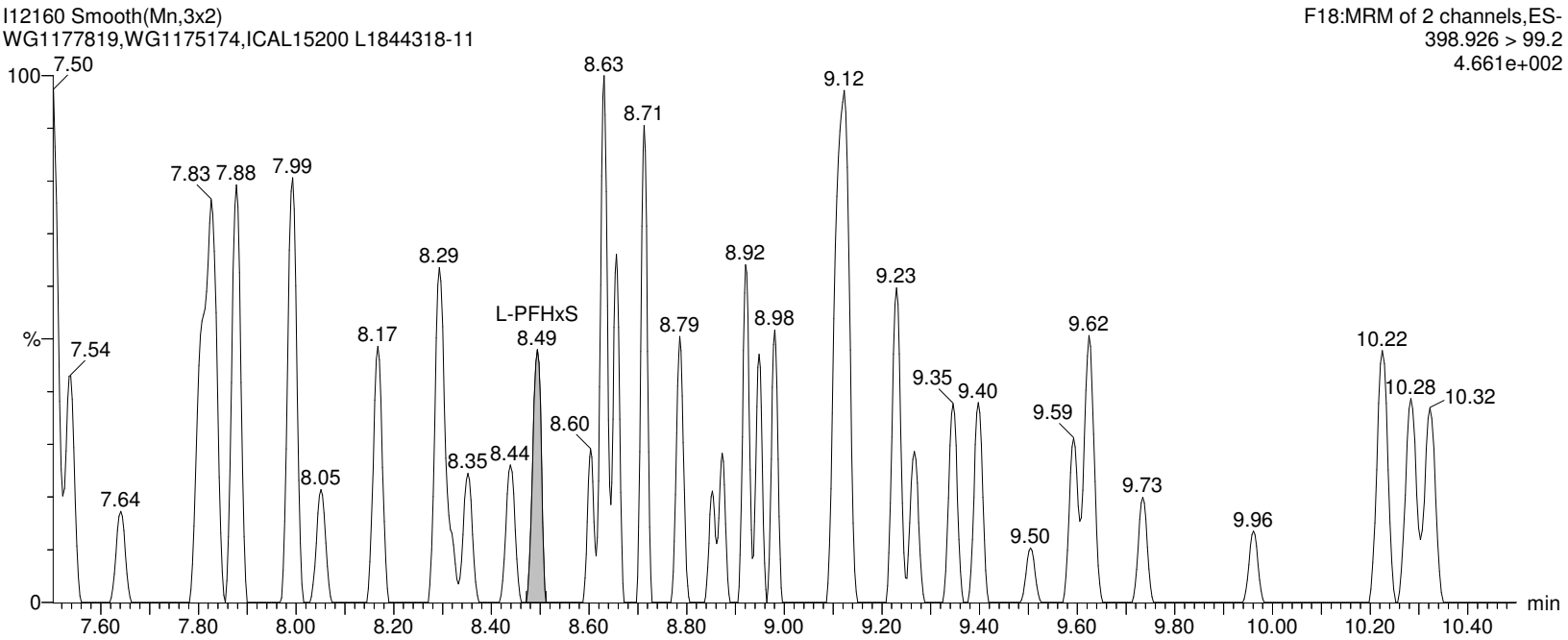
L-PFHxS





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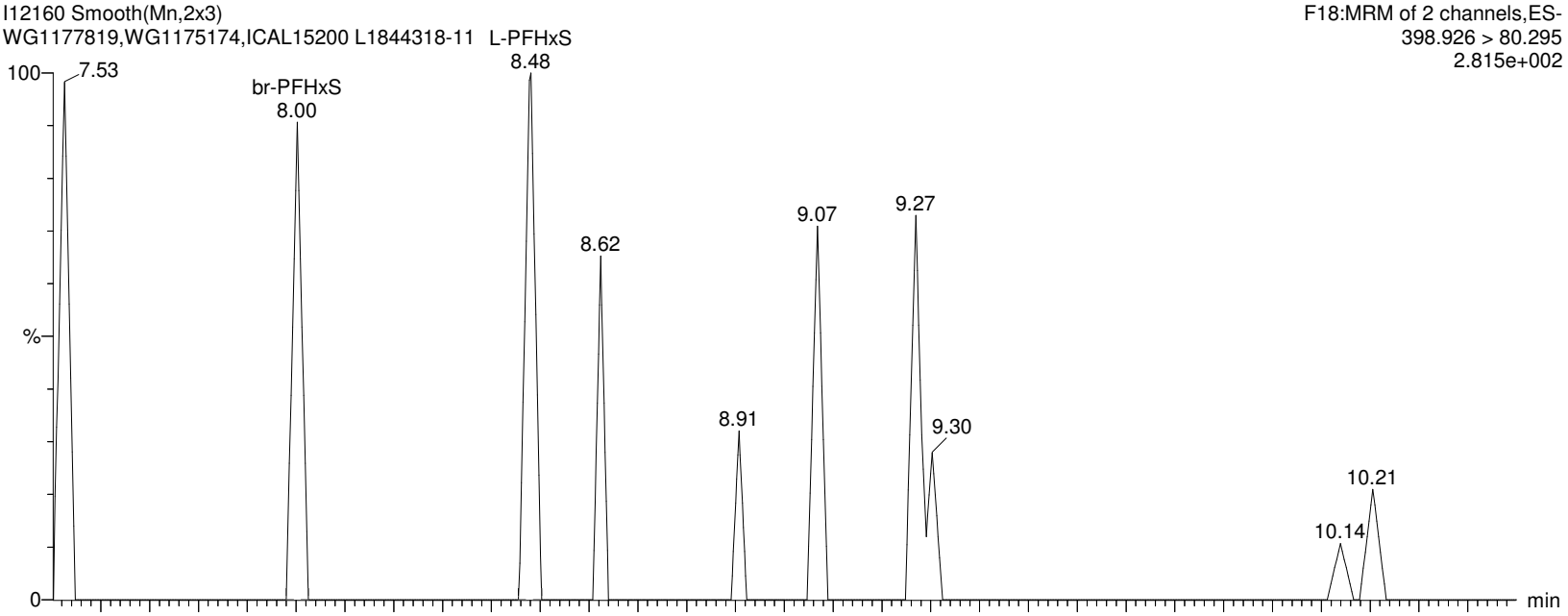

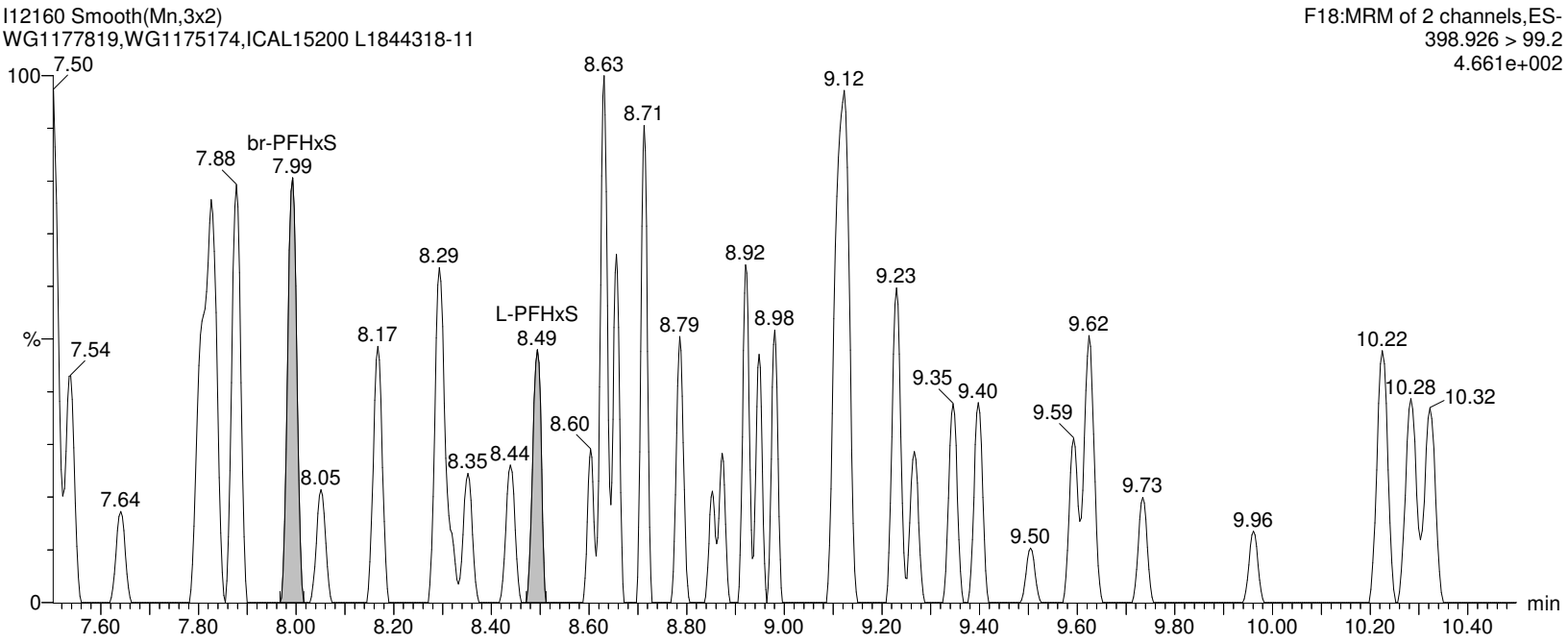

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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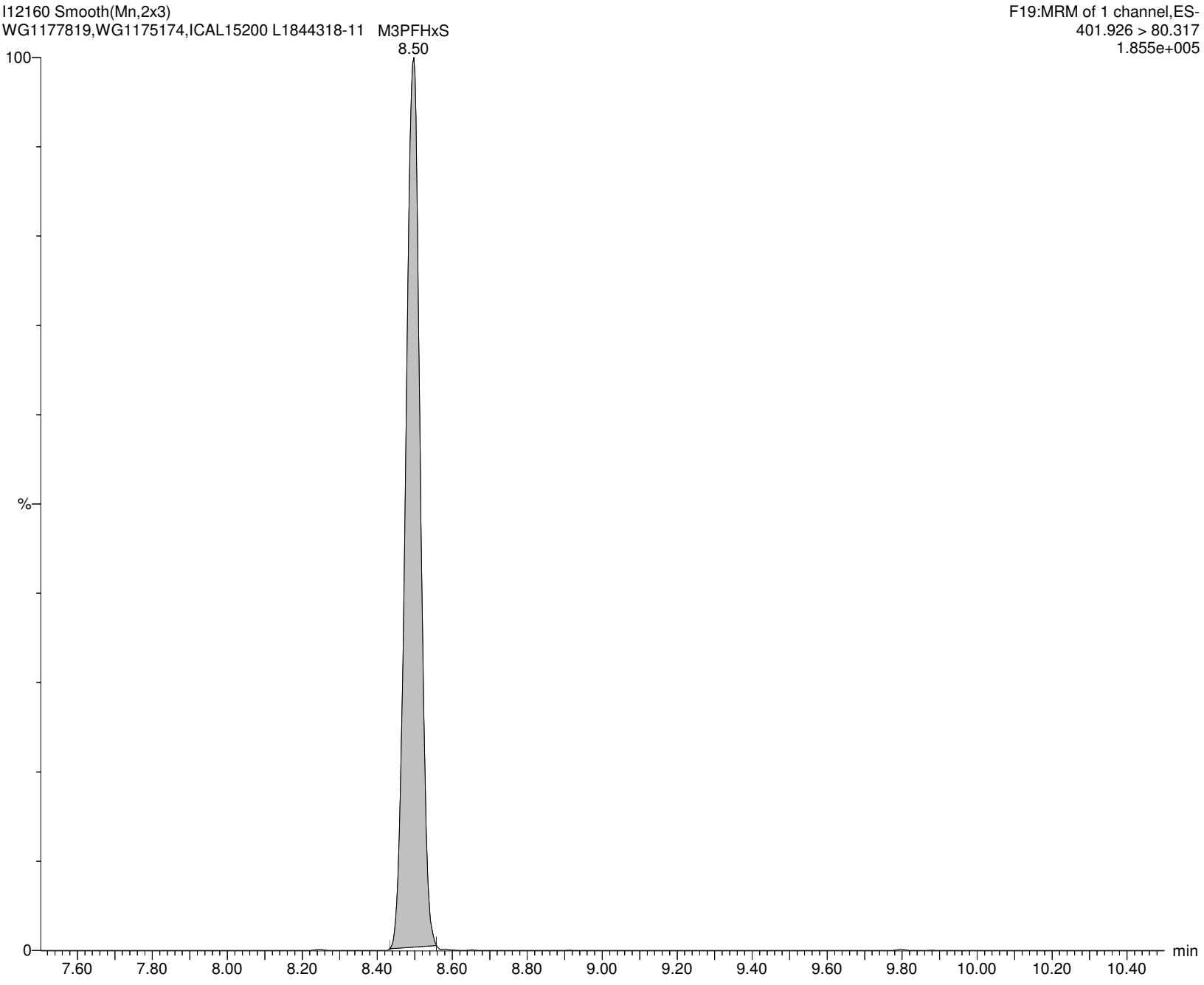

all concentration units in (ng/mL)

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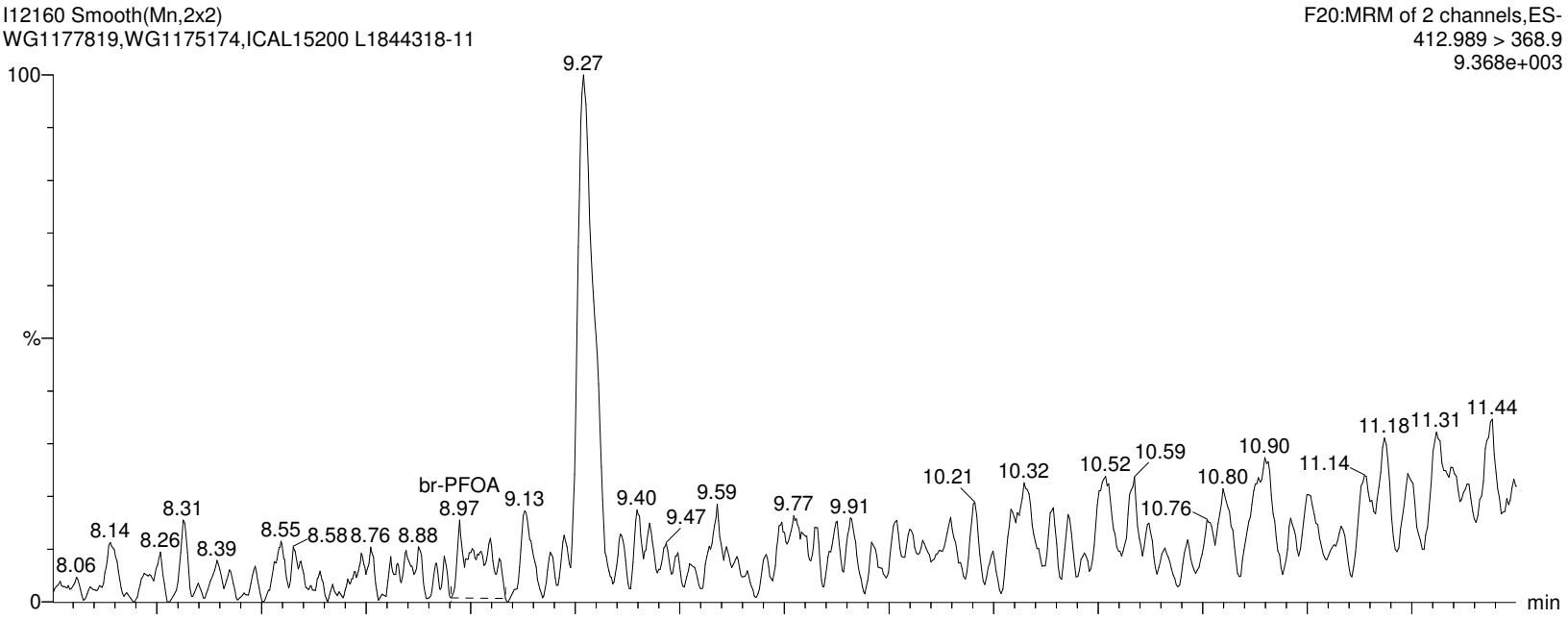

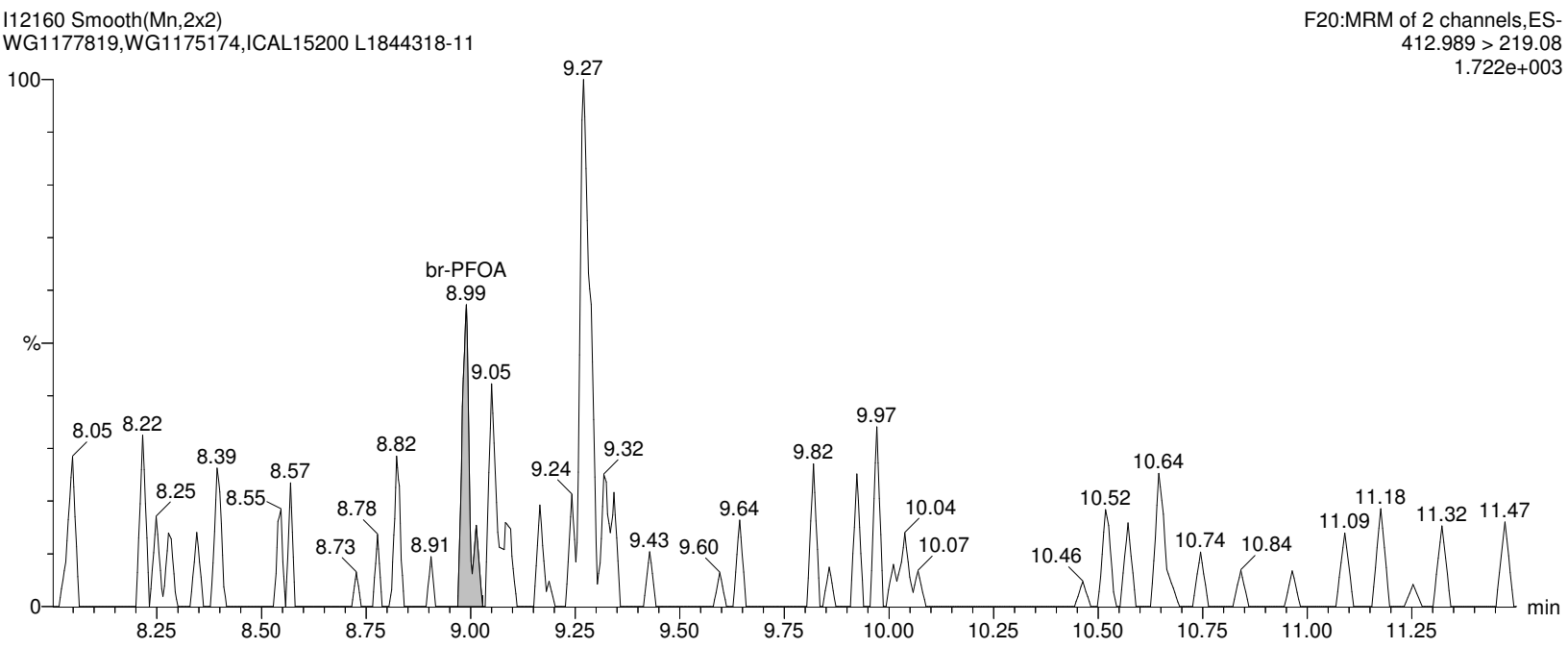

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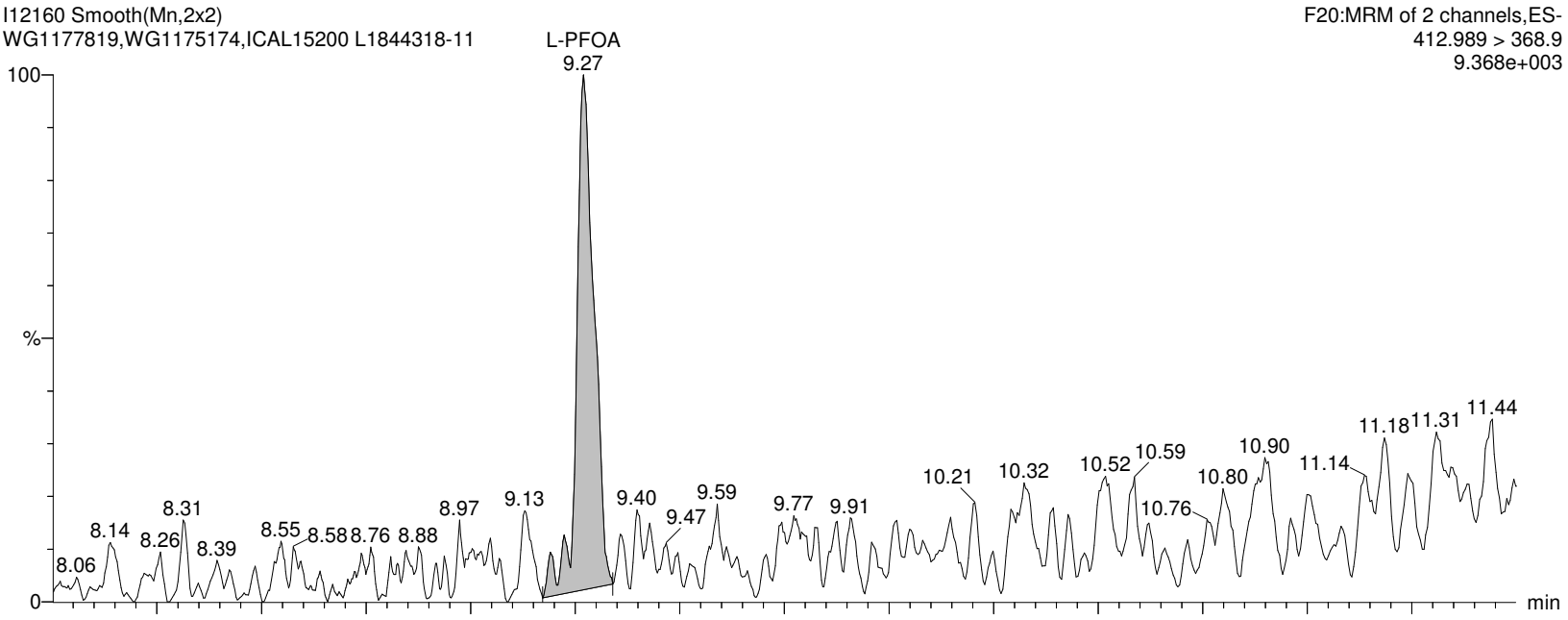

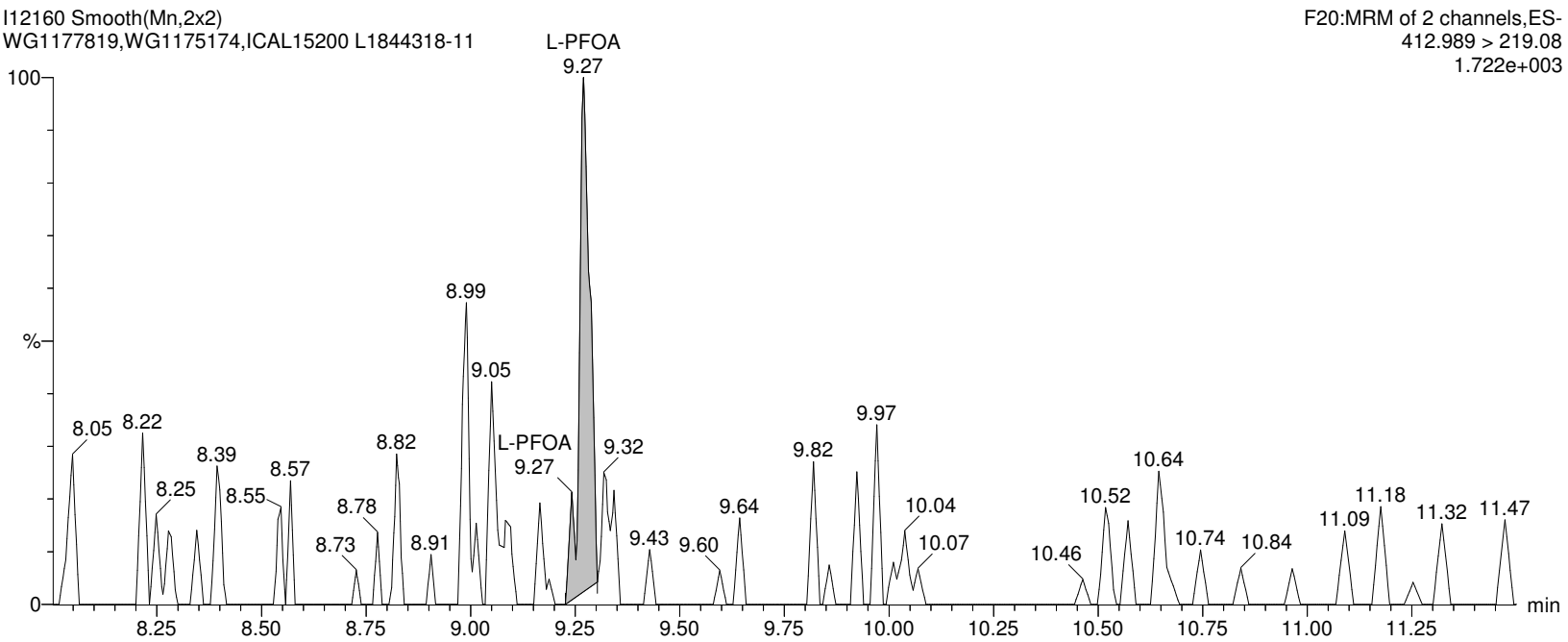

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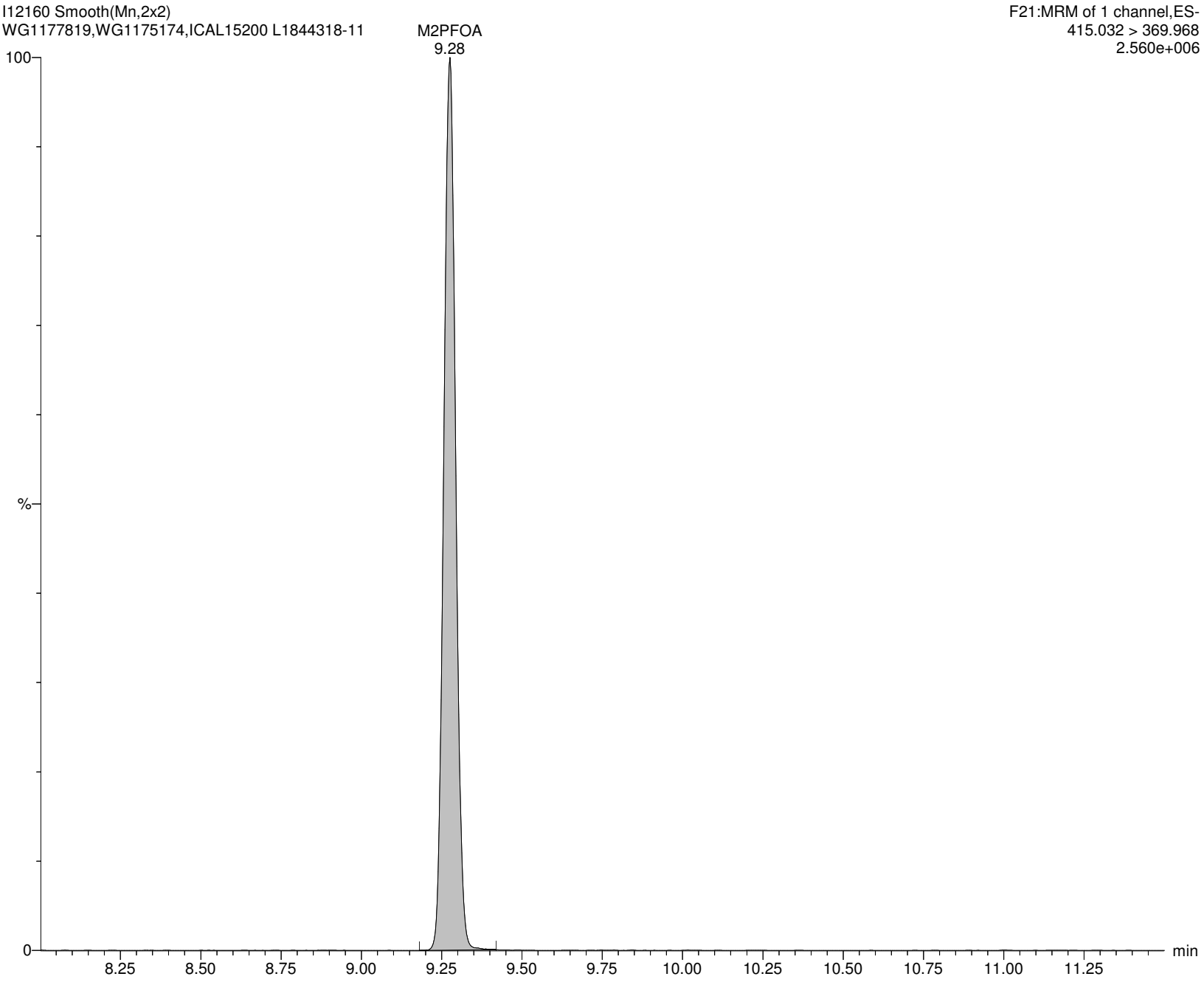

all concentration units in (ng/mL)

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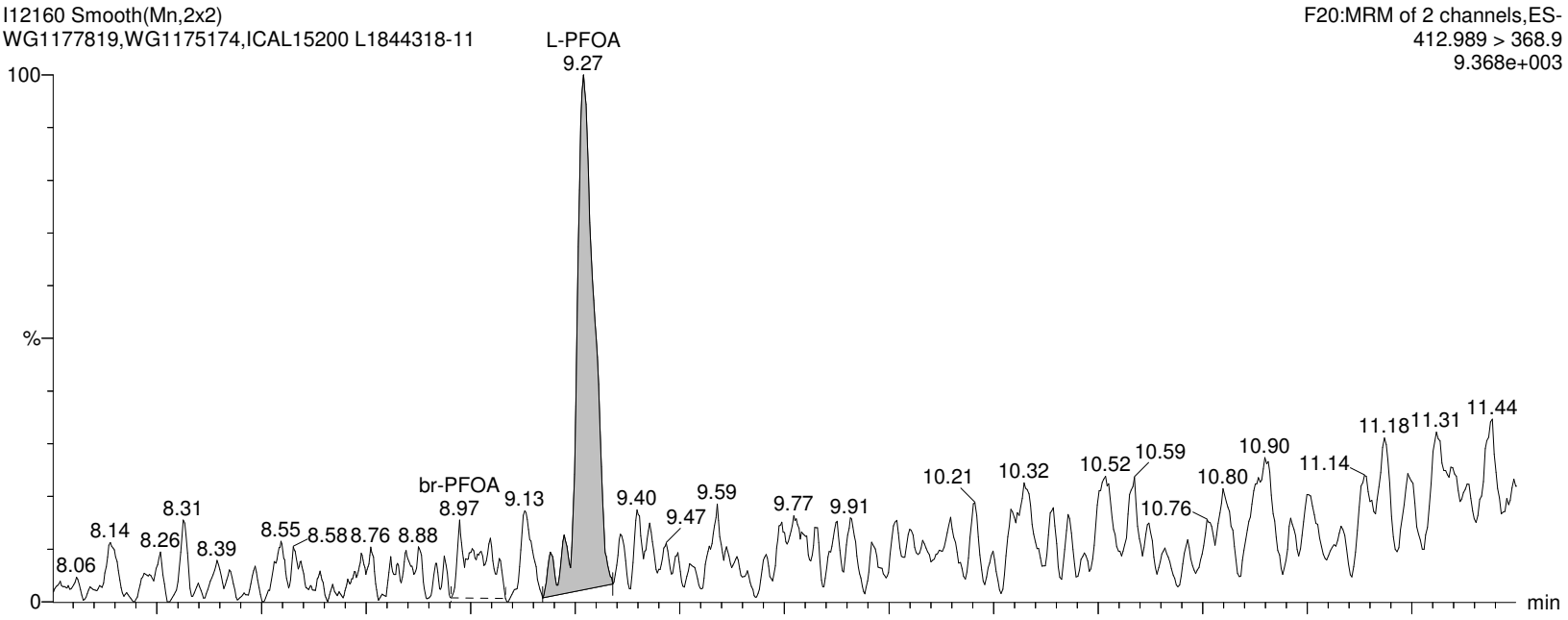

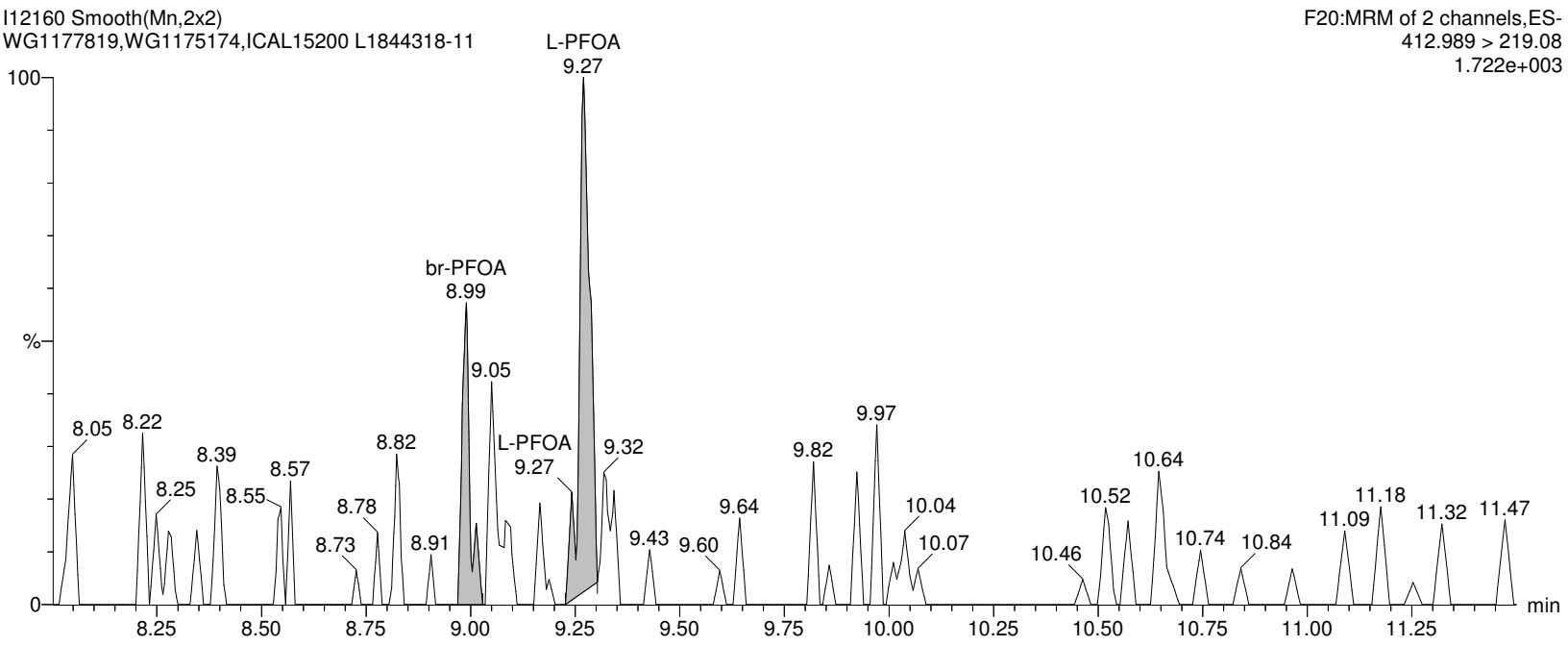

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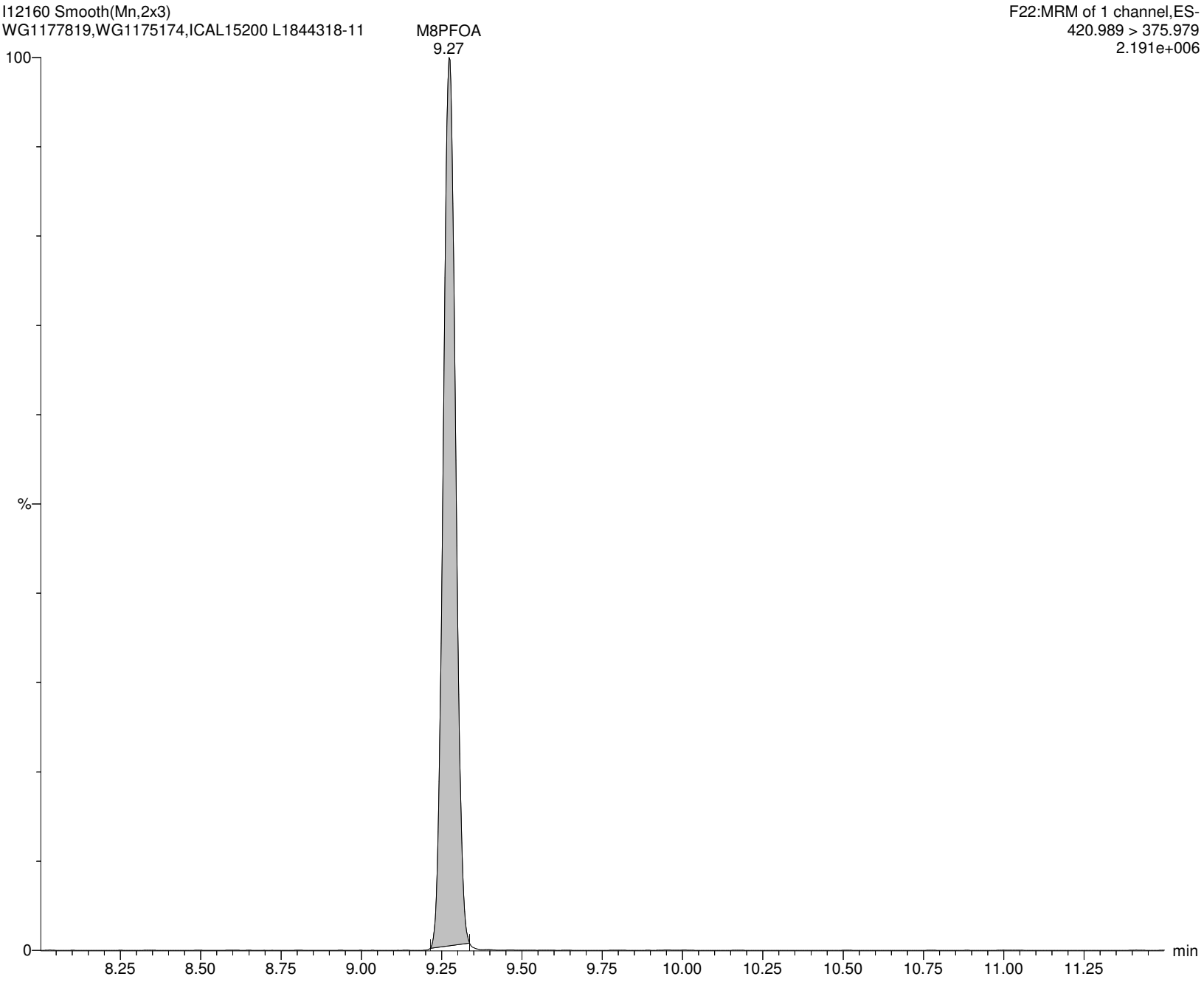

all concentration units in (ng/mL)

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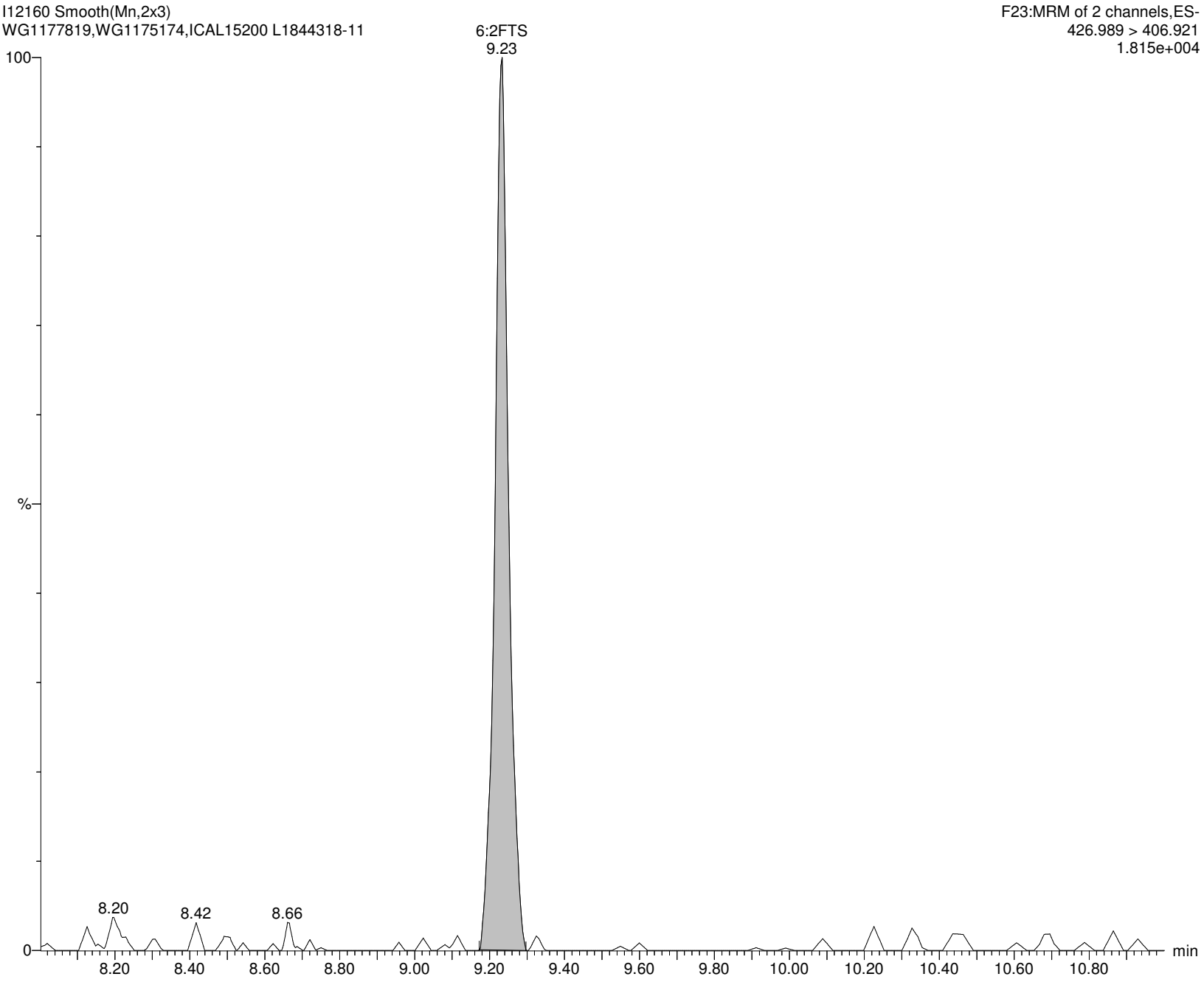

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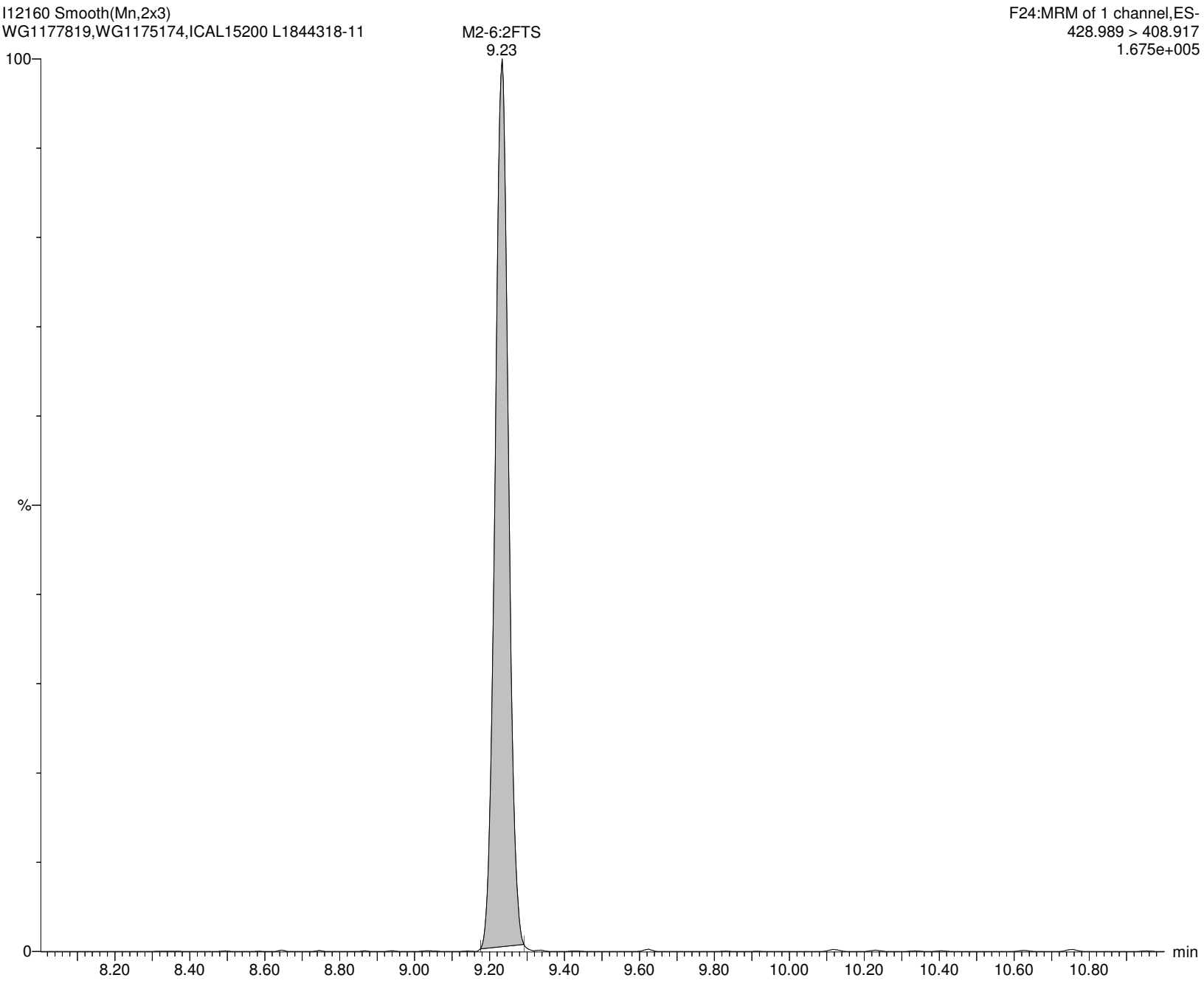

all concentration units in (ng/mL)

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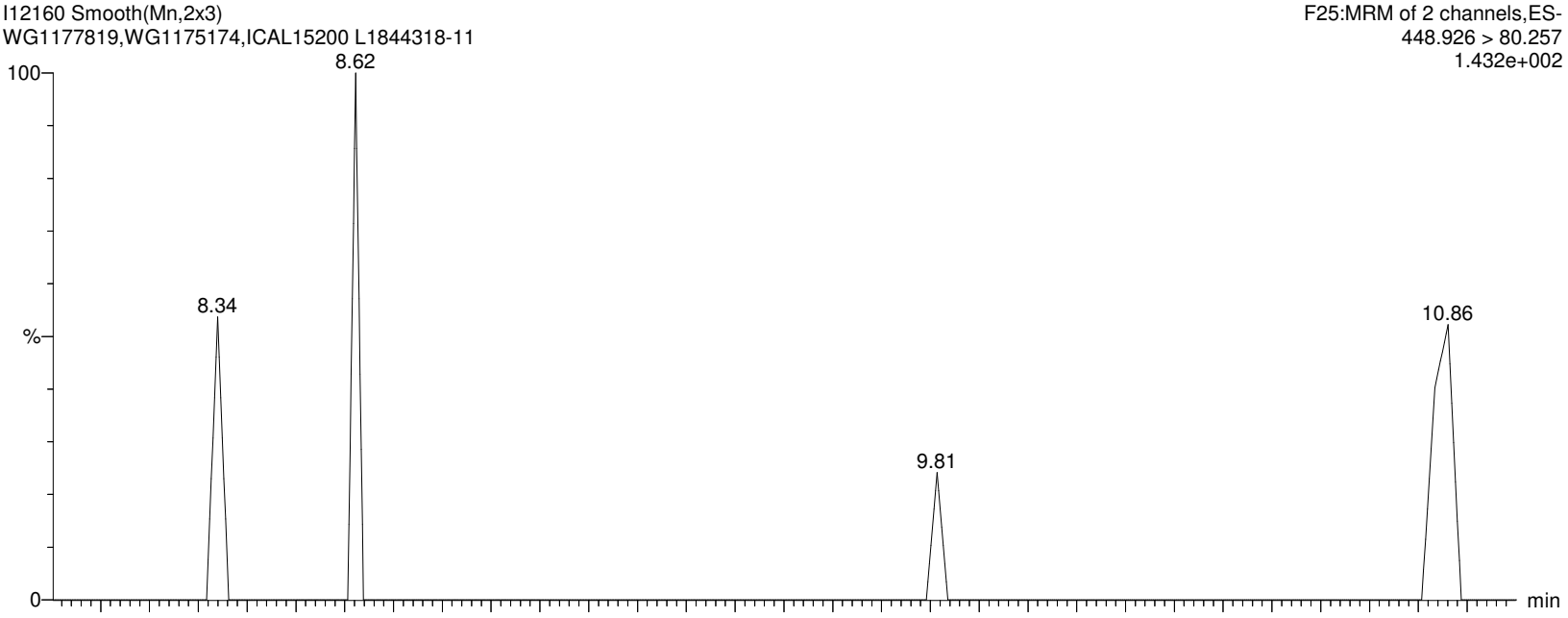

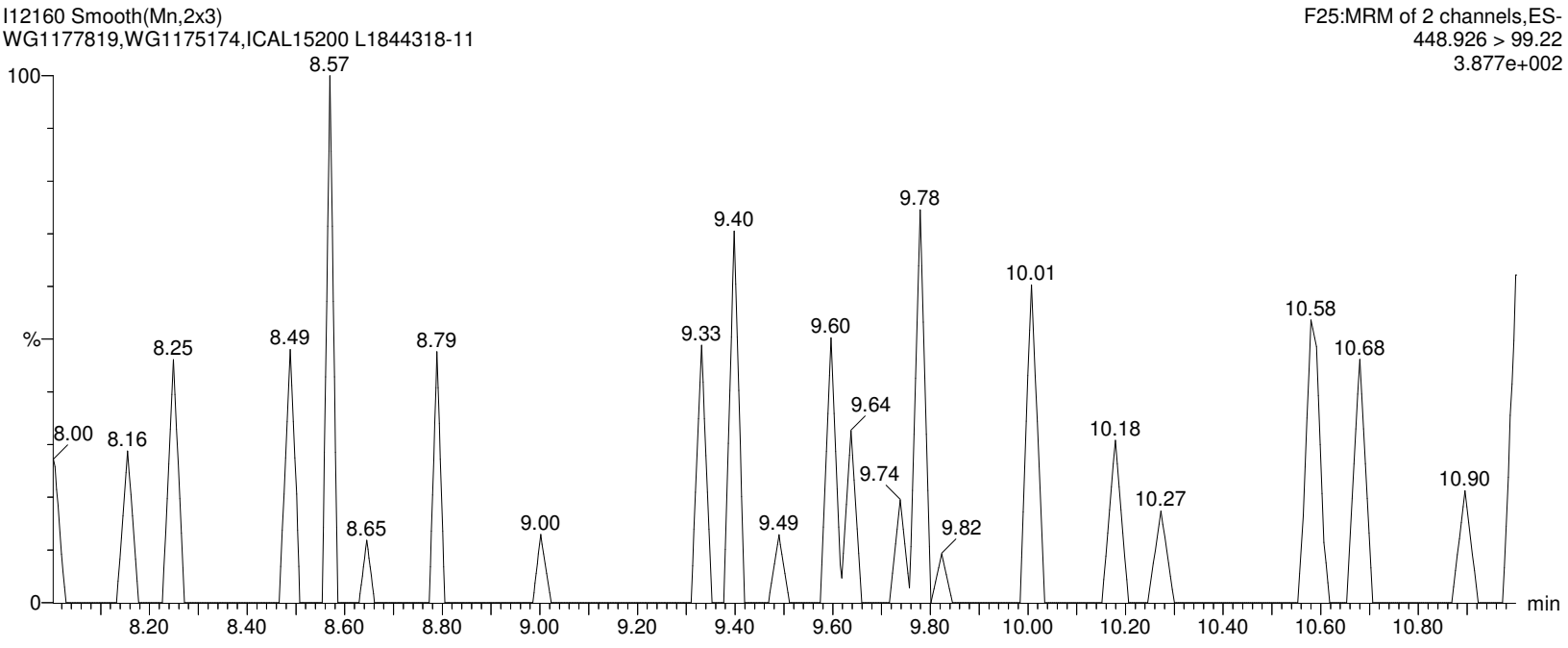

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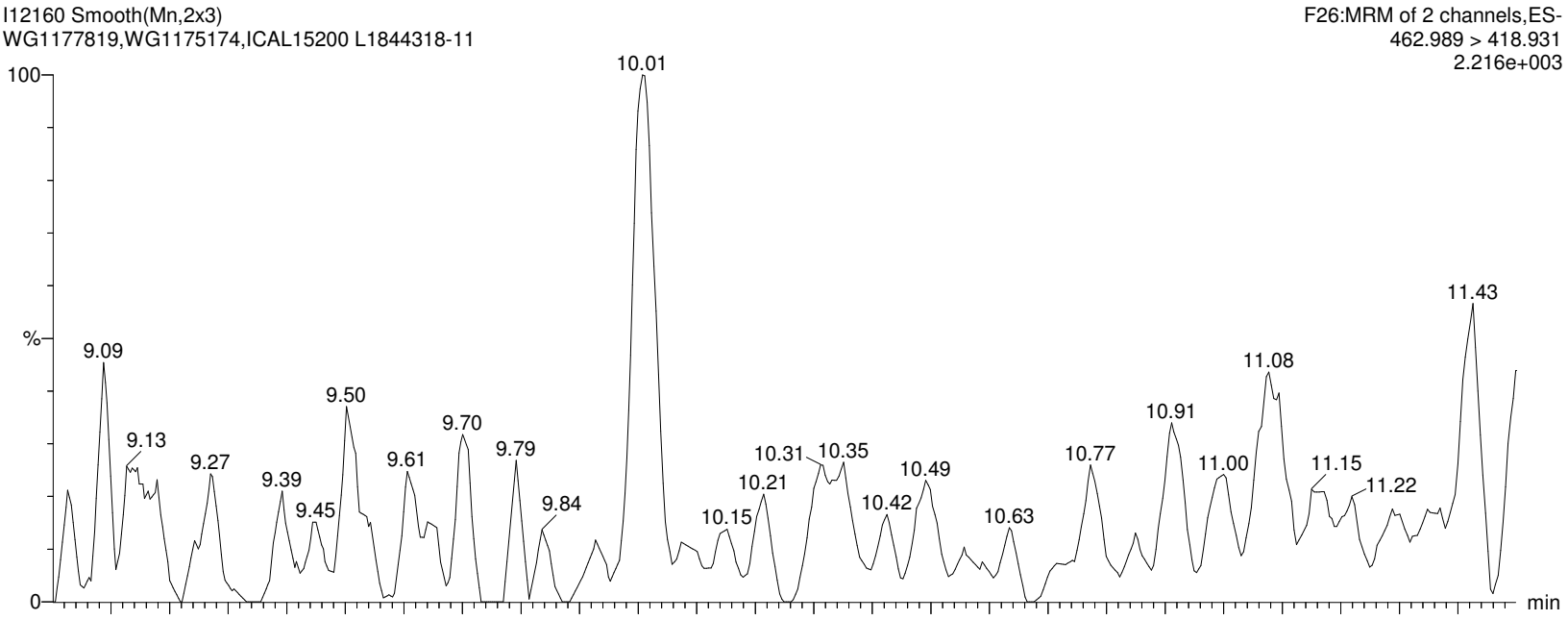

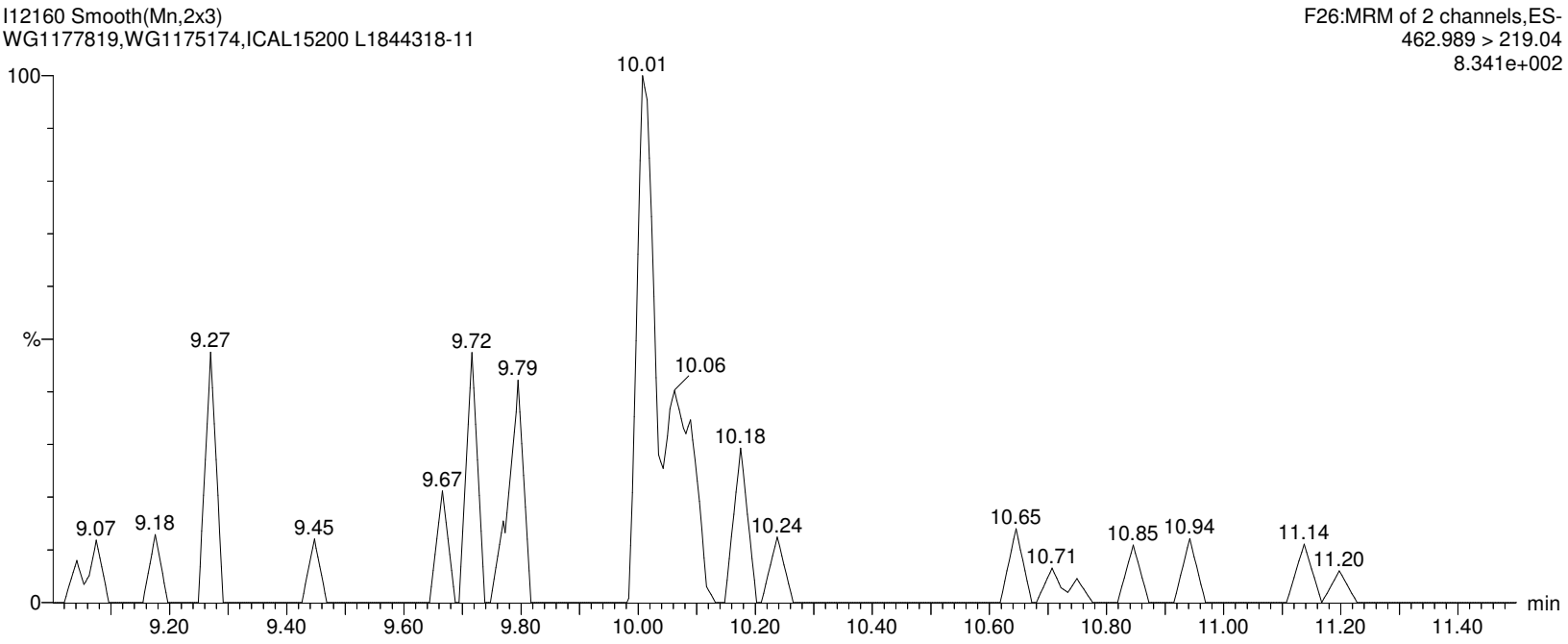

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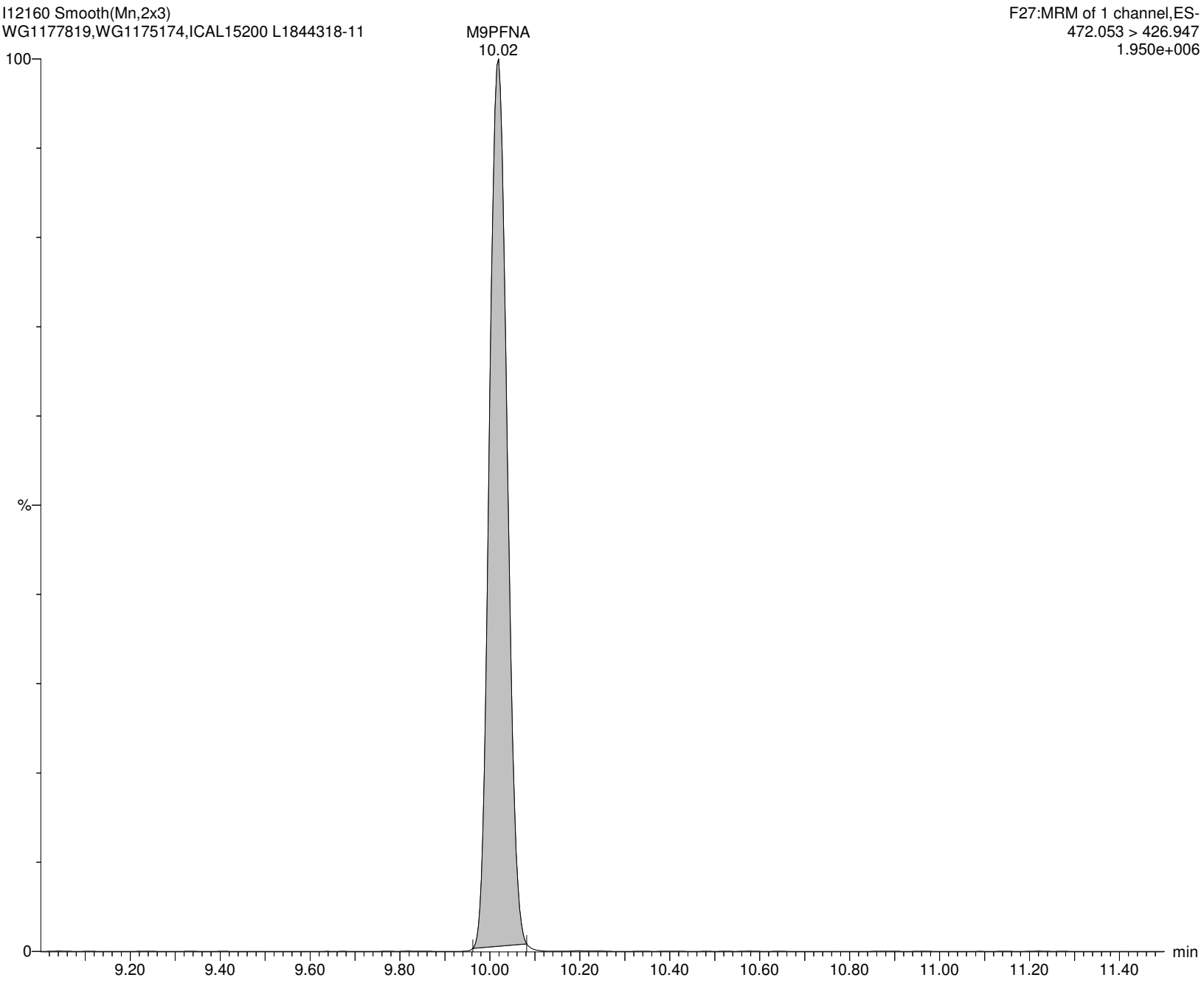

all concentration units in (ng/mL)

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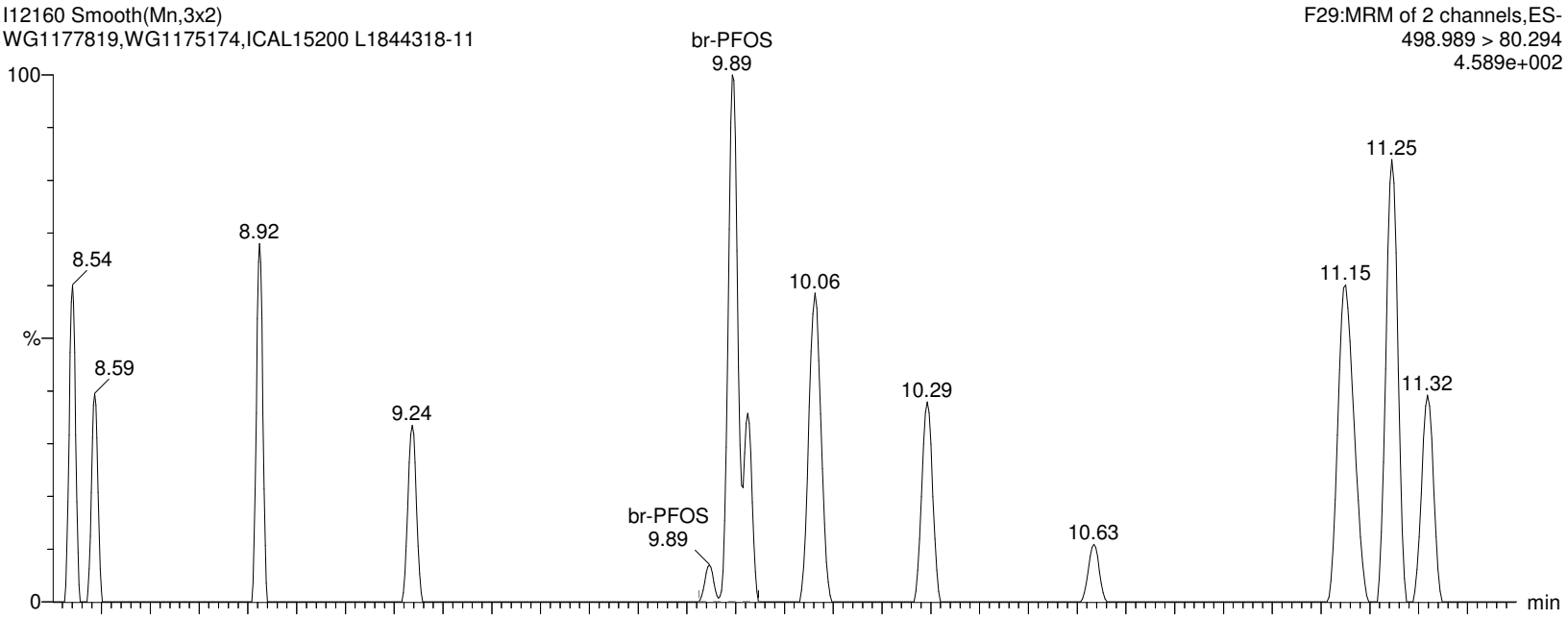

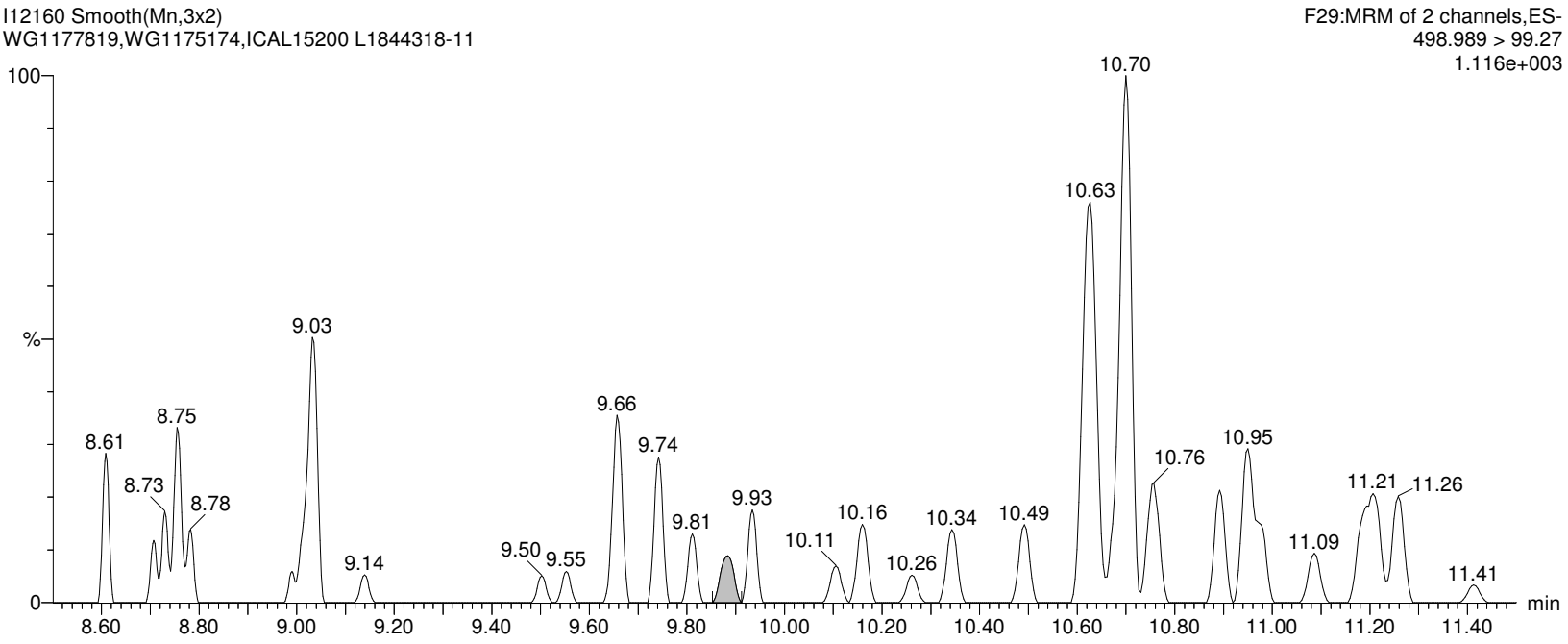

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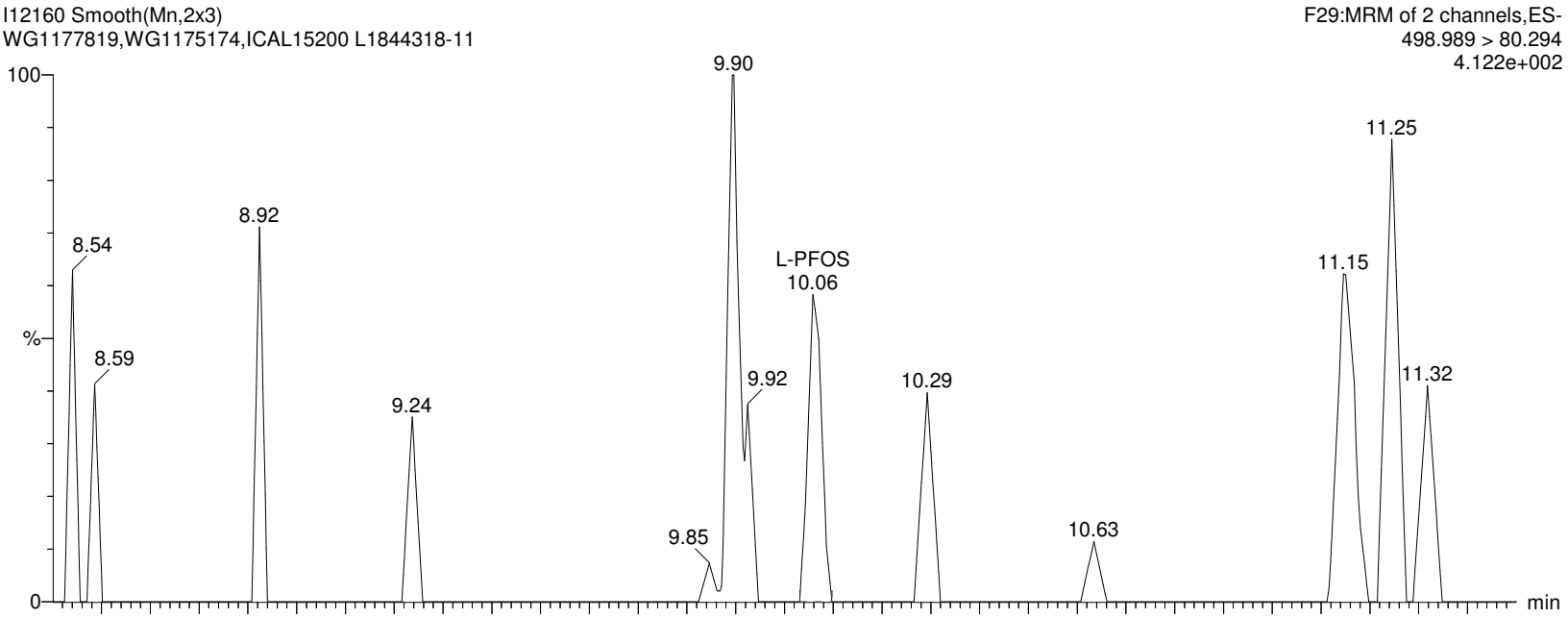

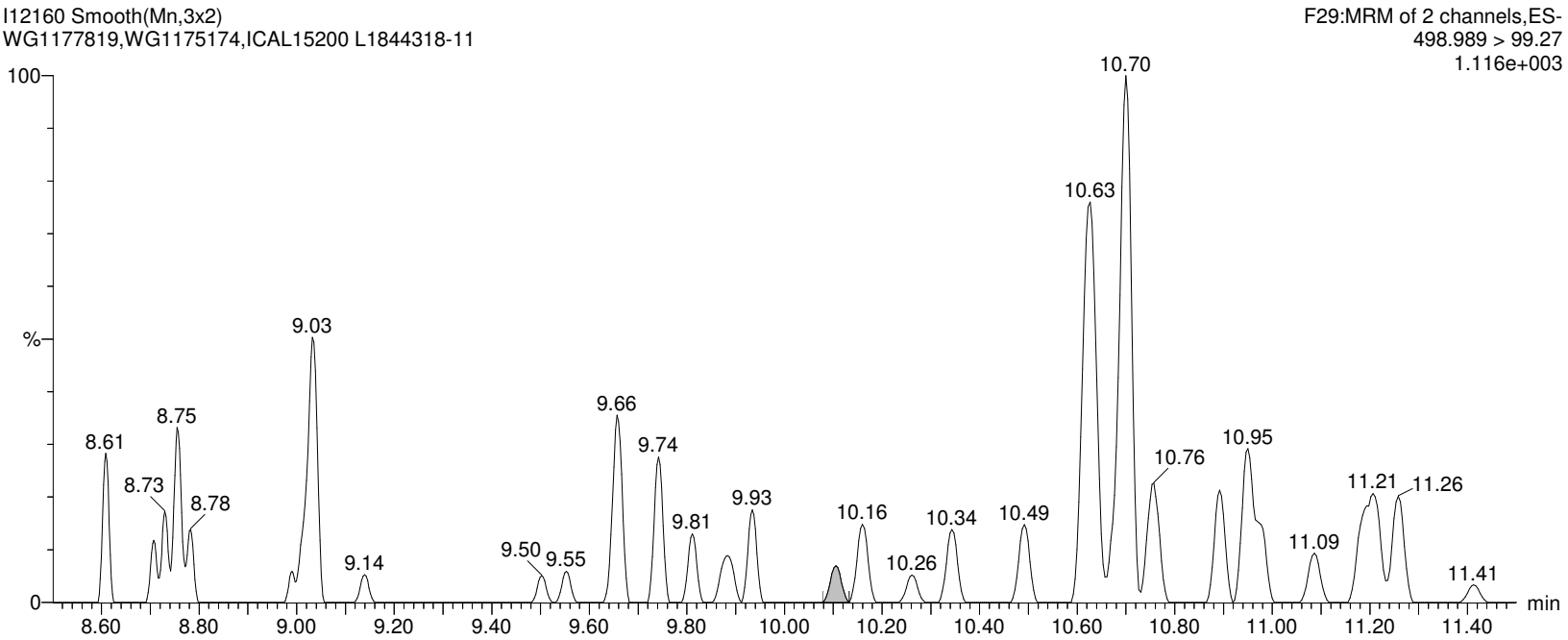

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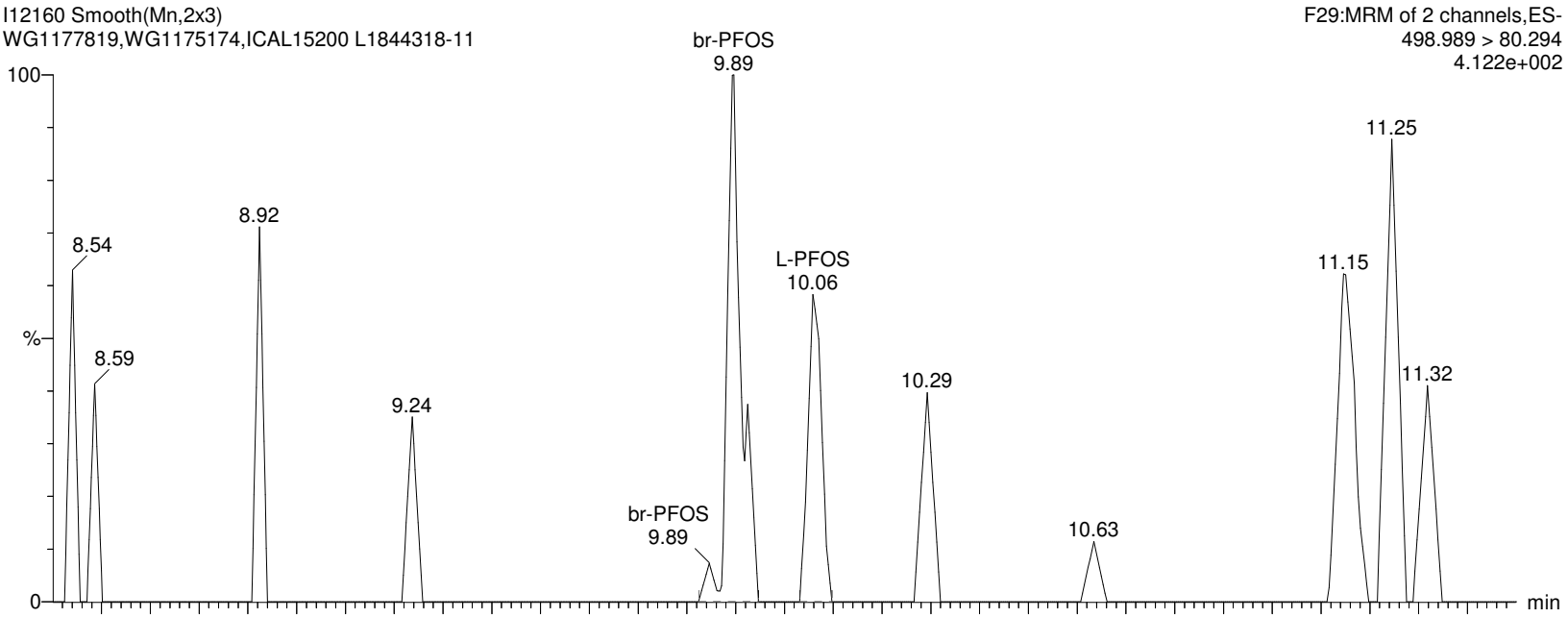

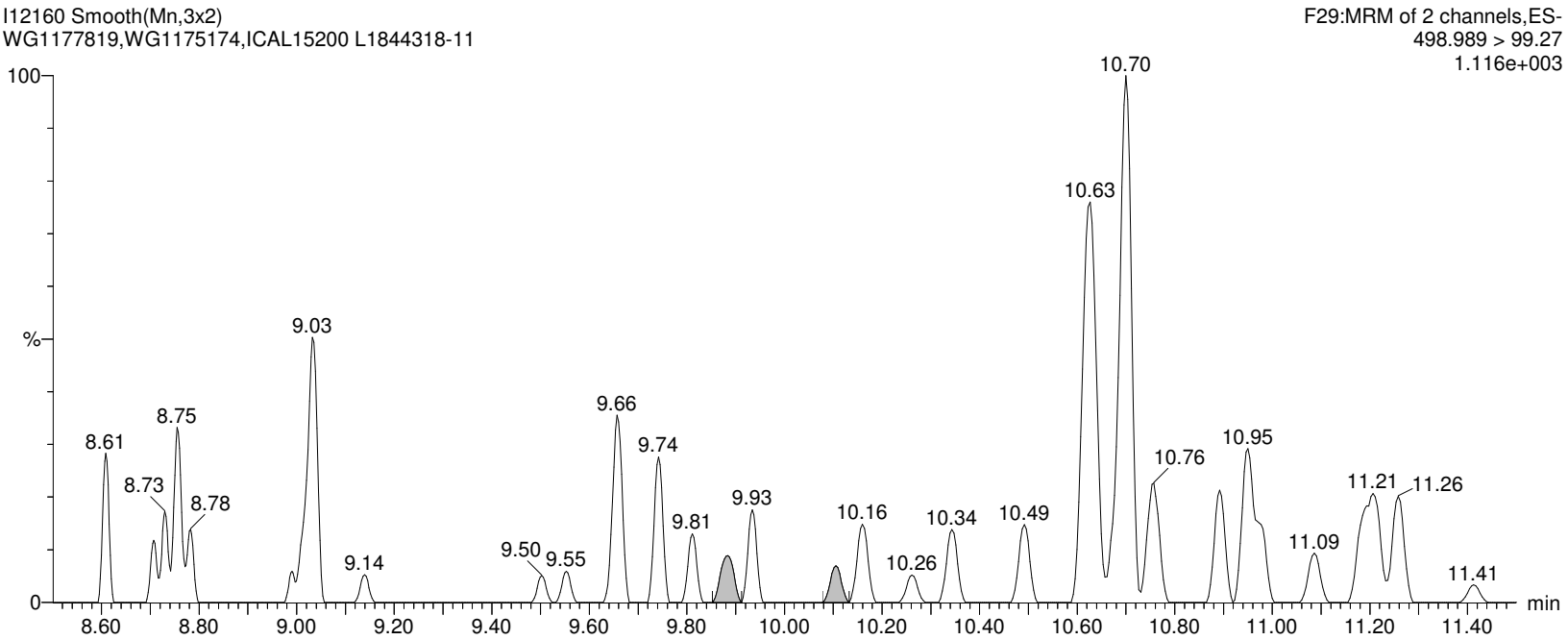

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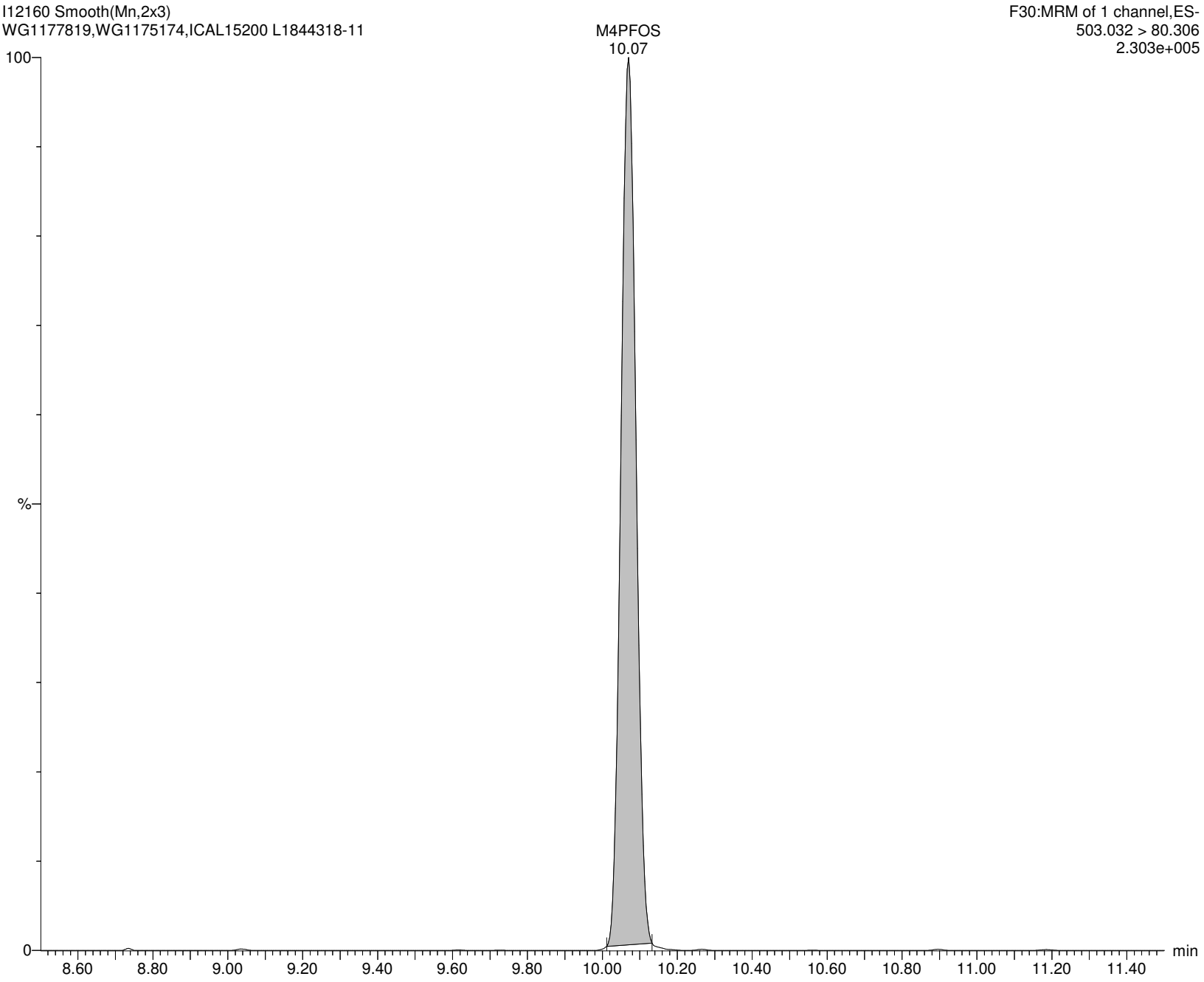

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Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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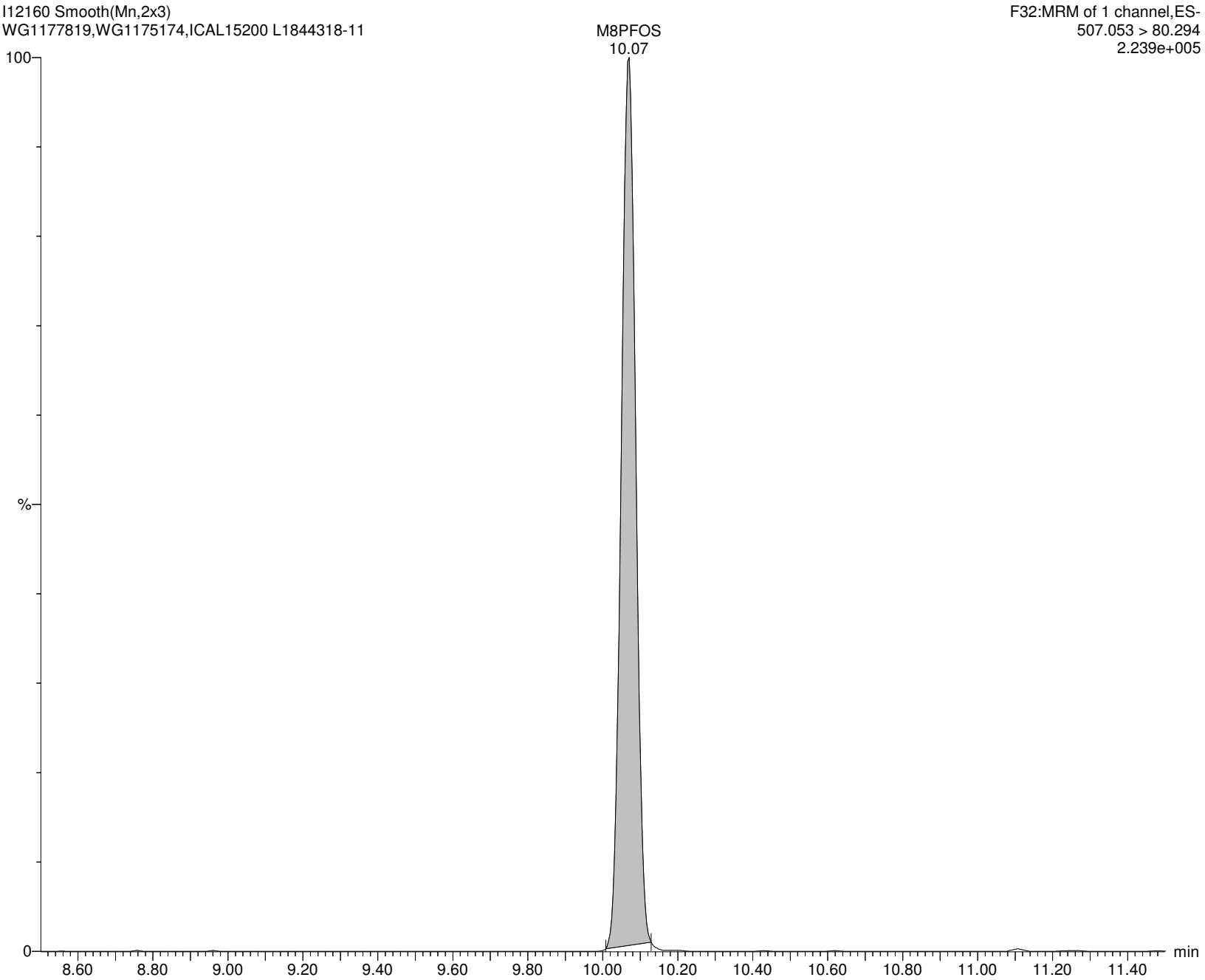

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
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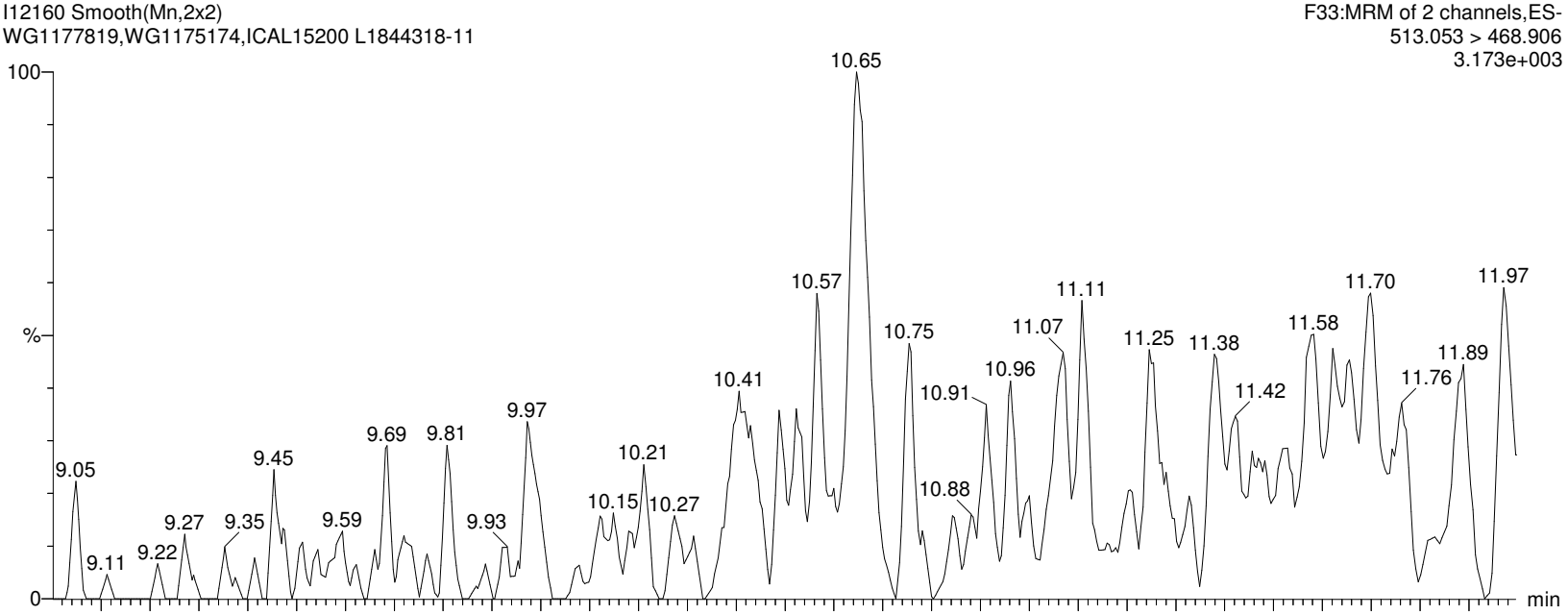

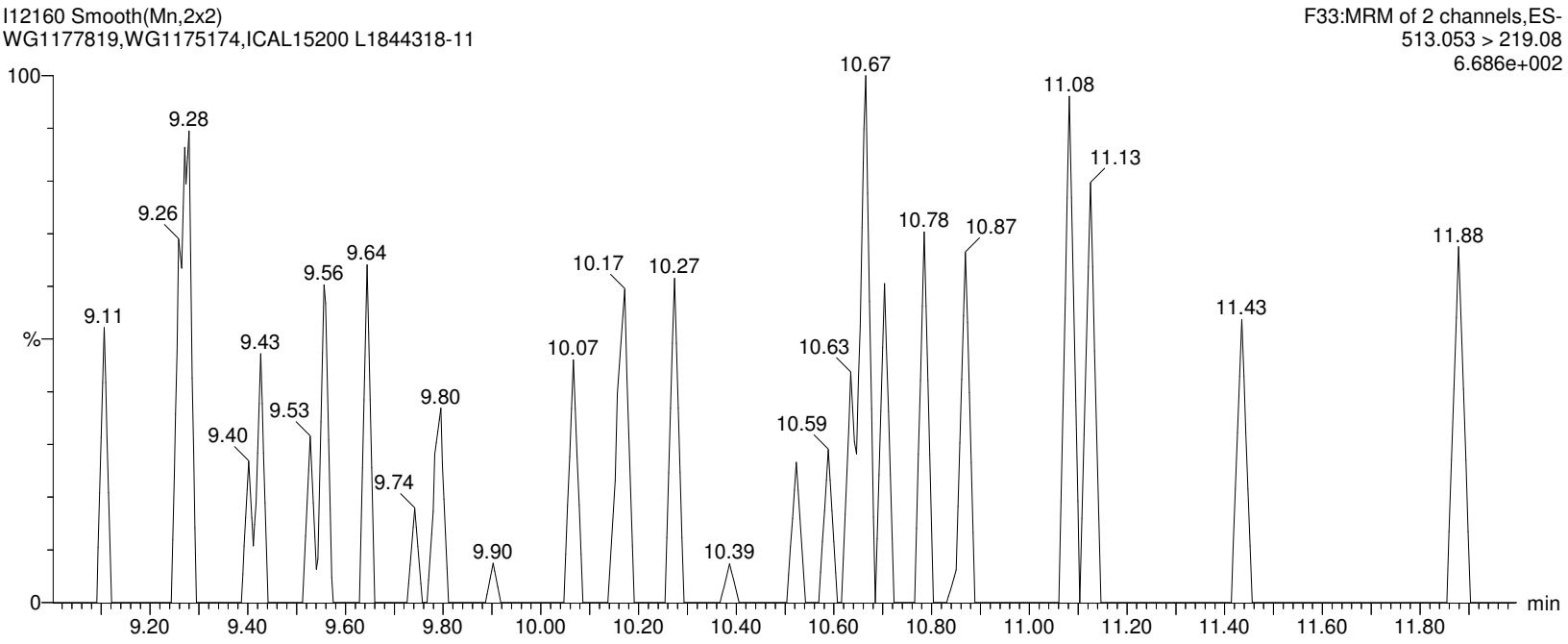

all concentration units in (ng/mL)

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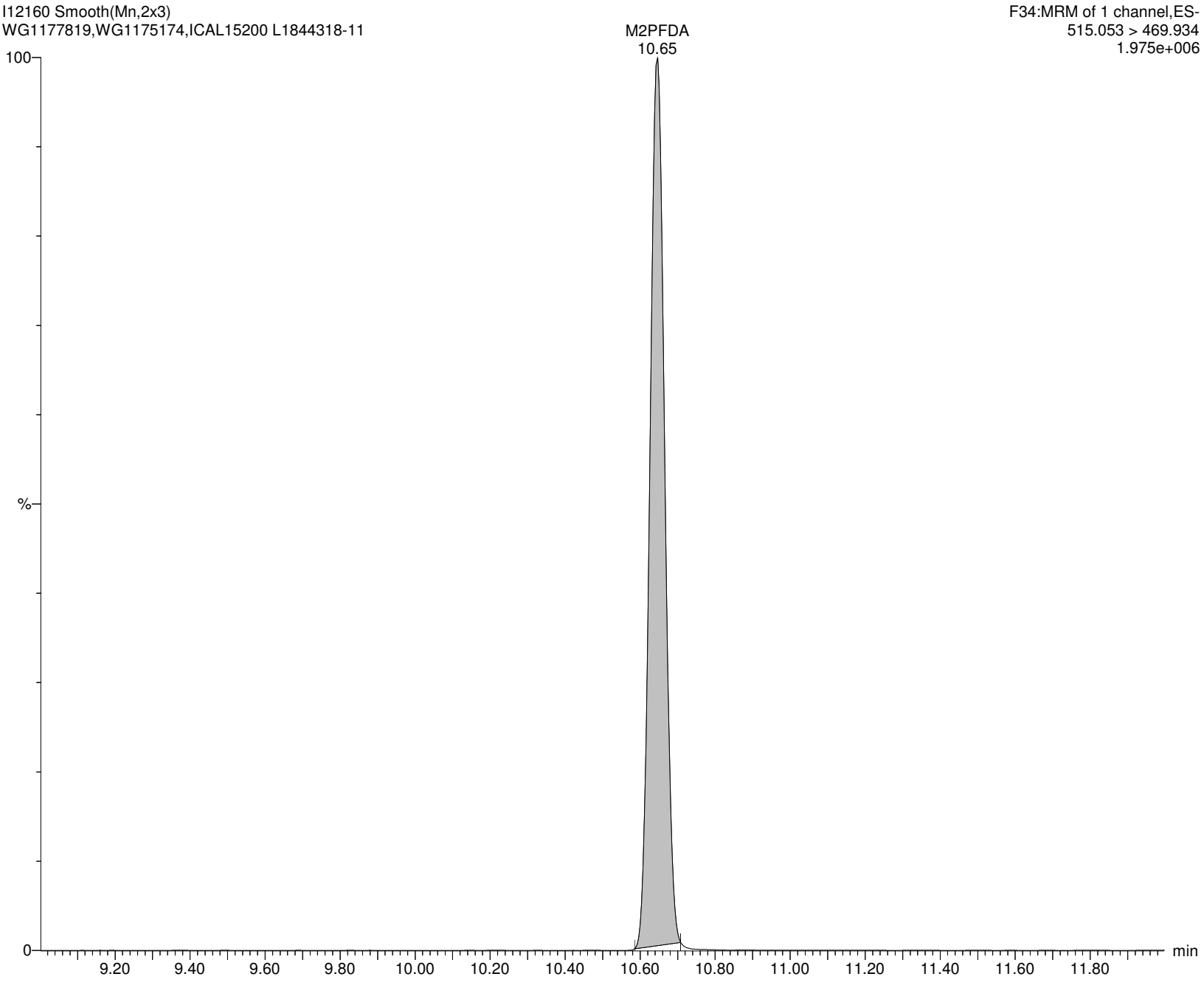

all concentration units in (ng/mL)

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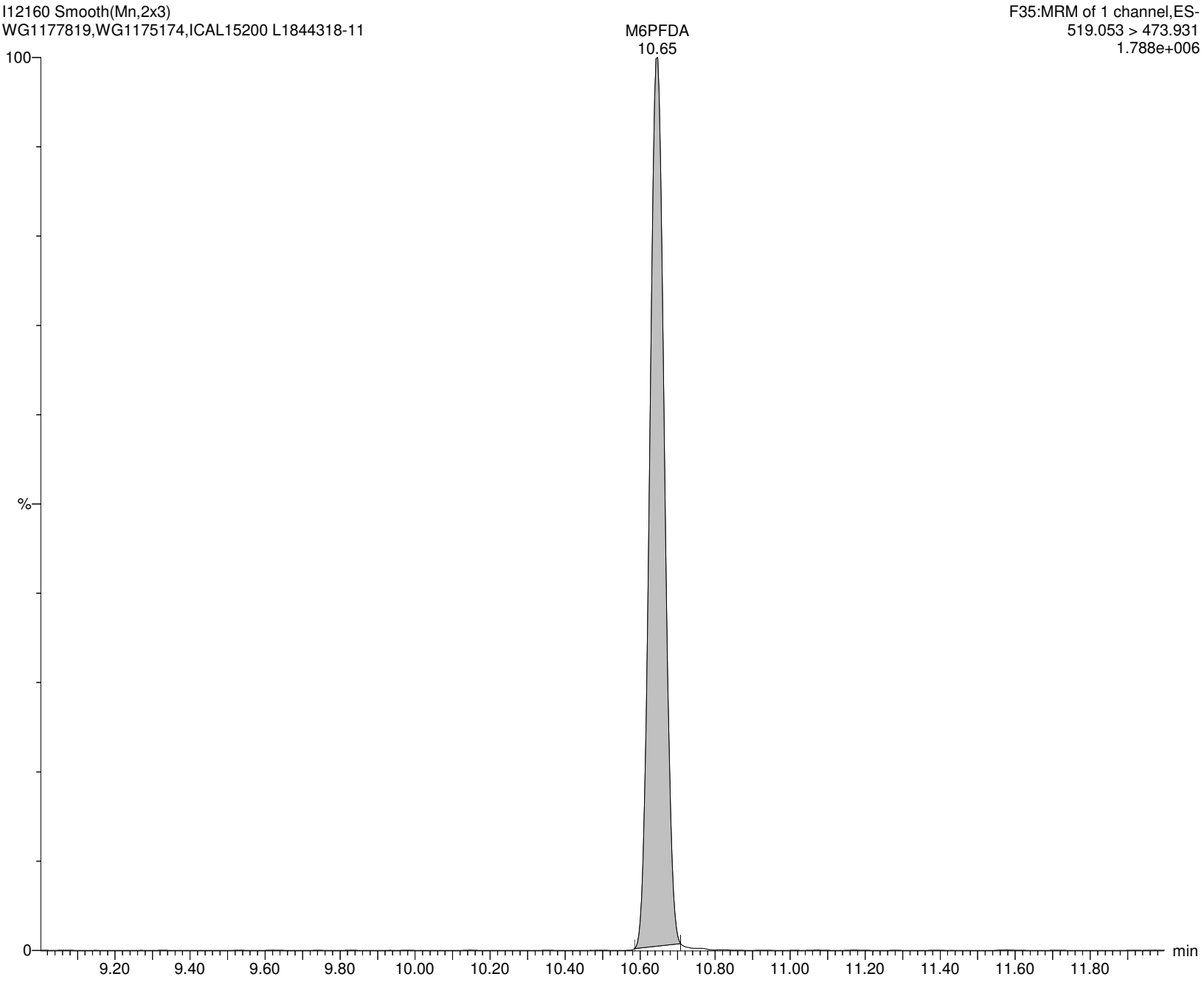

all concentration units in (ng/mL)

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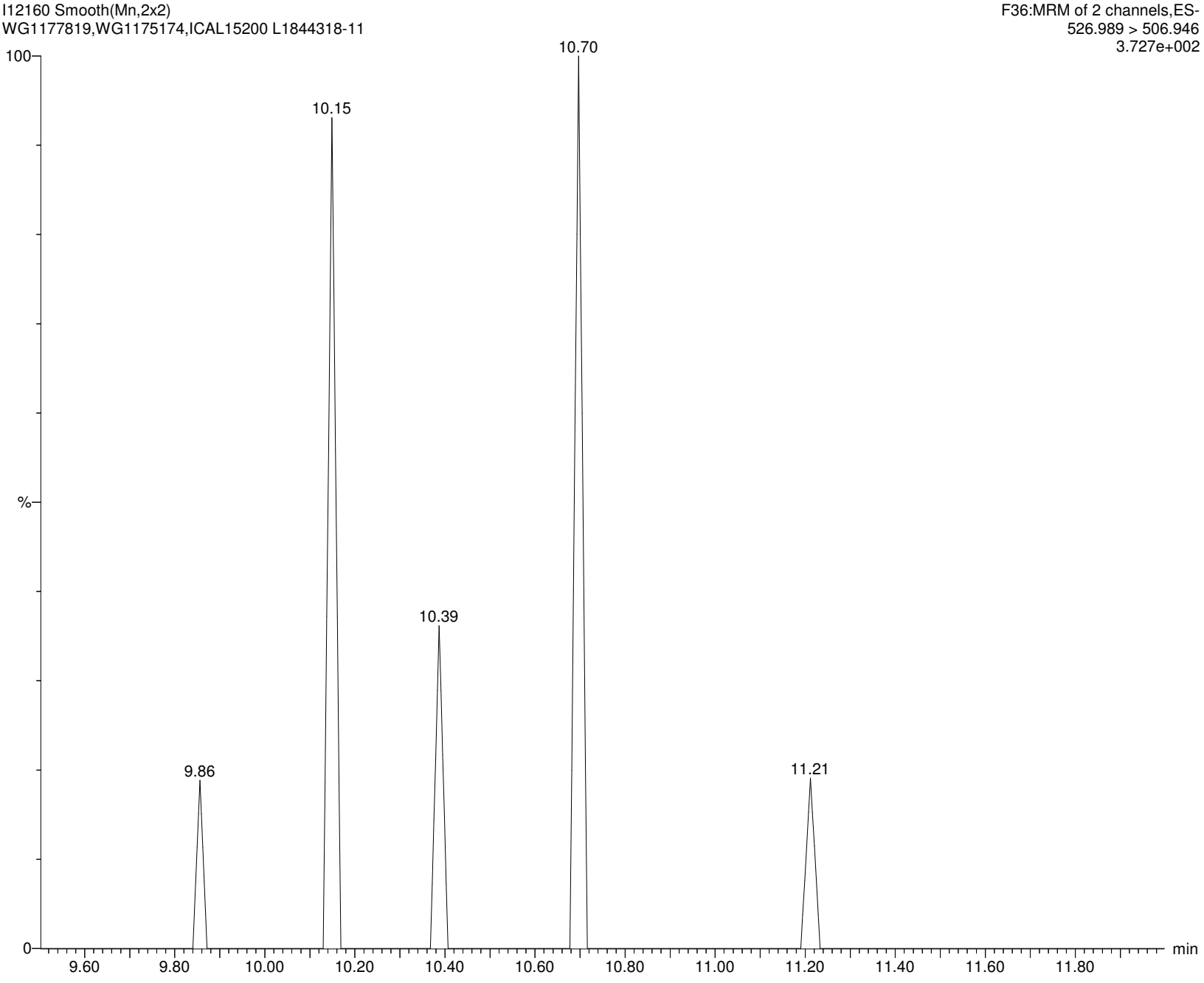
8:2FTS



all concentration units in (ng/mL)

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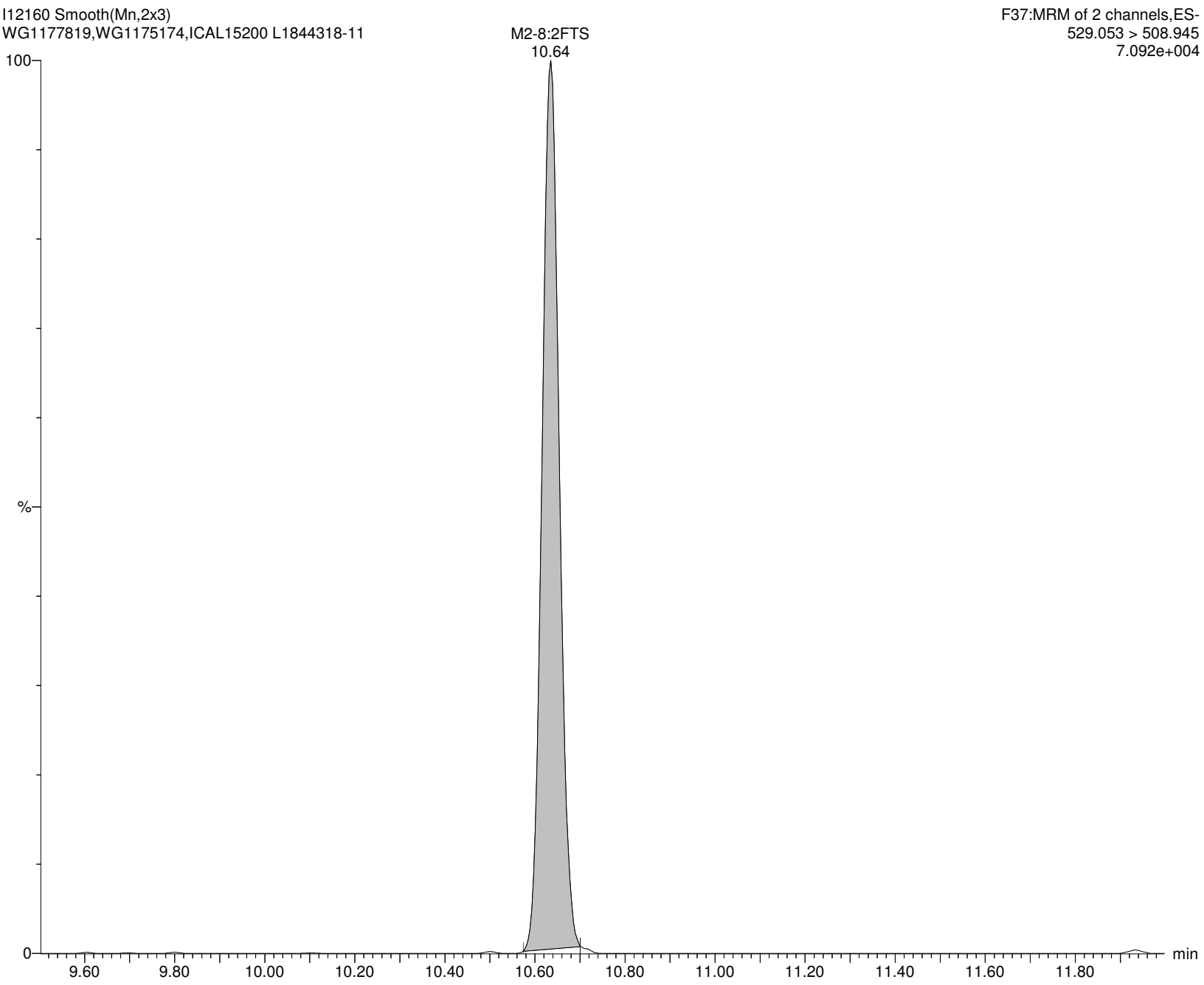

all concentration units in (ng/mL)

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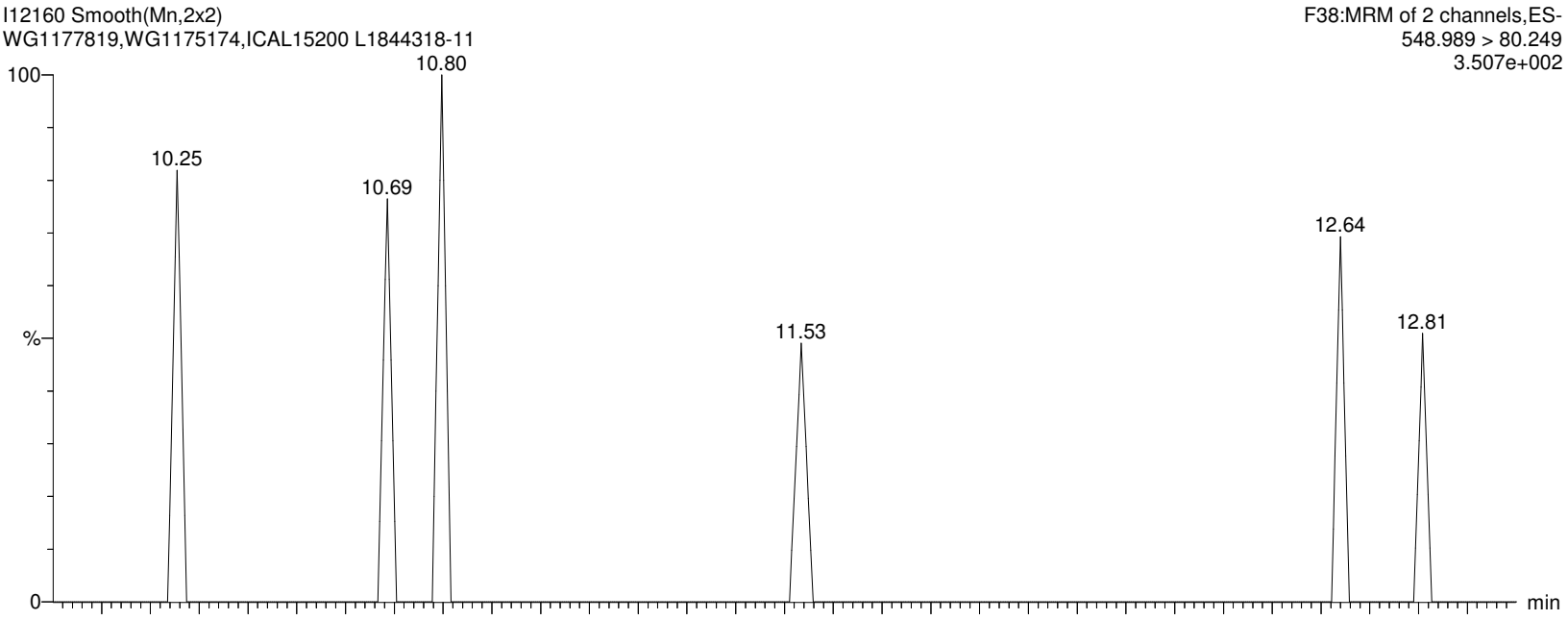

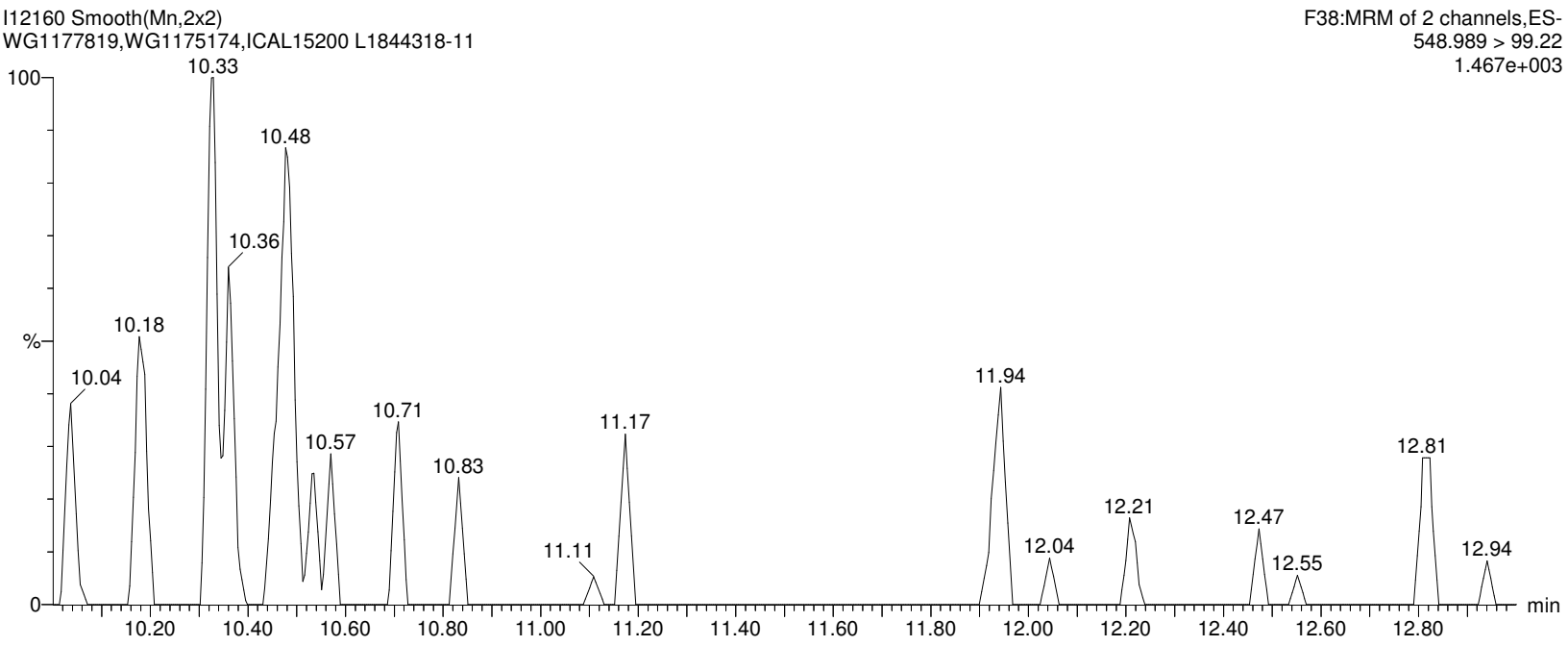

all concentration units in (ng/mL)

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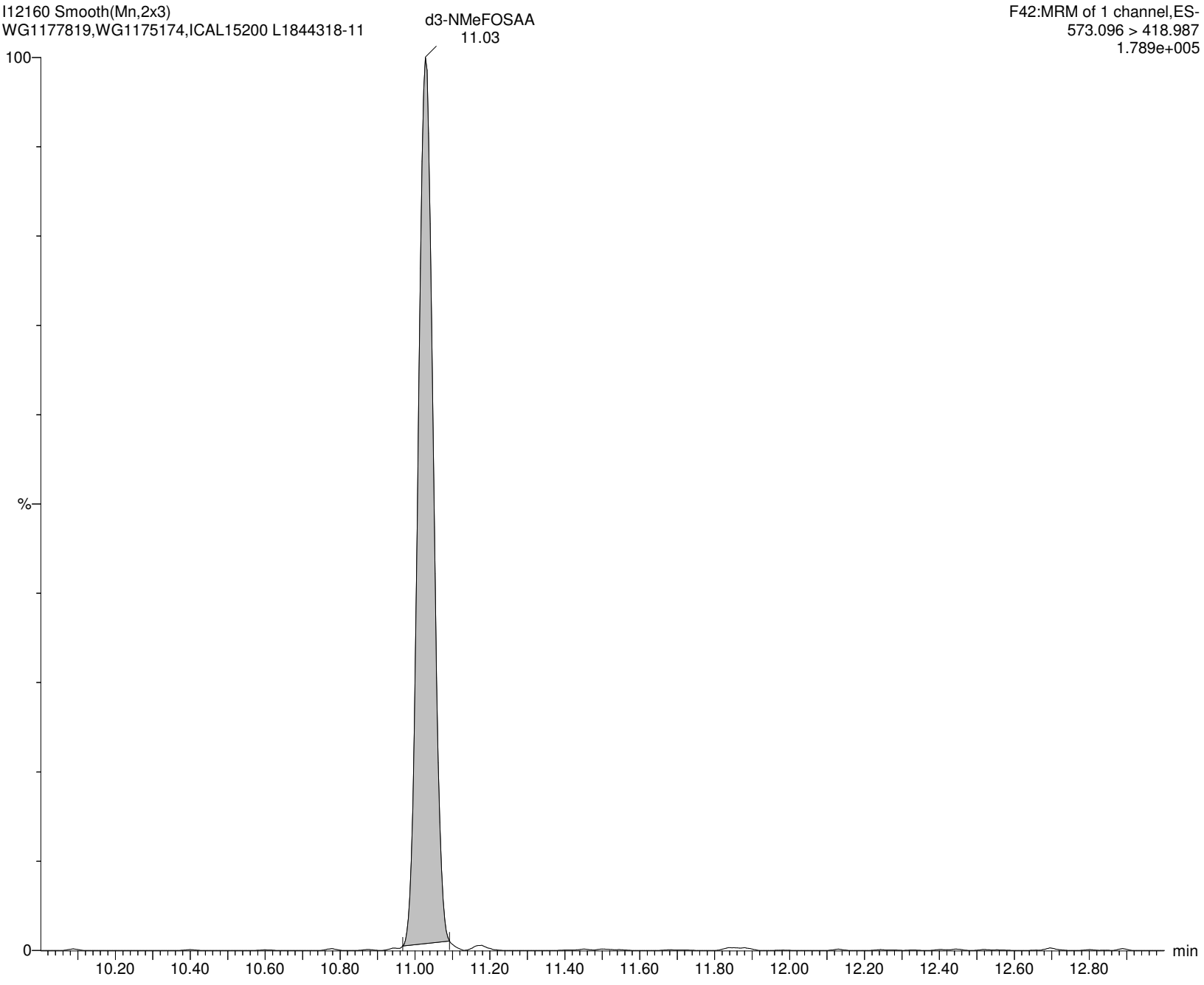
d3-NMeFOSAA



all concentration units in (ng/mL)

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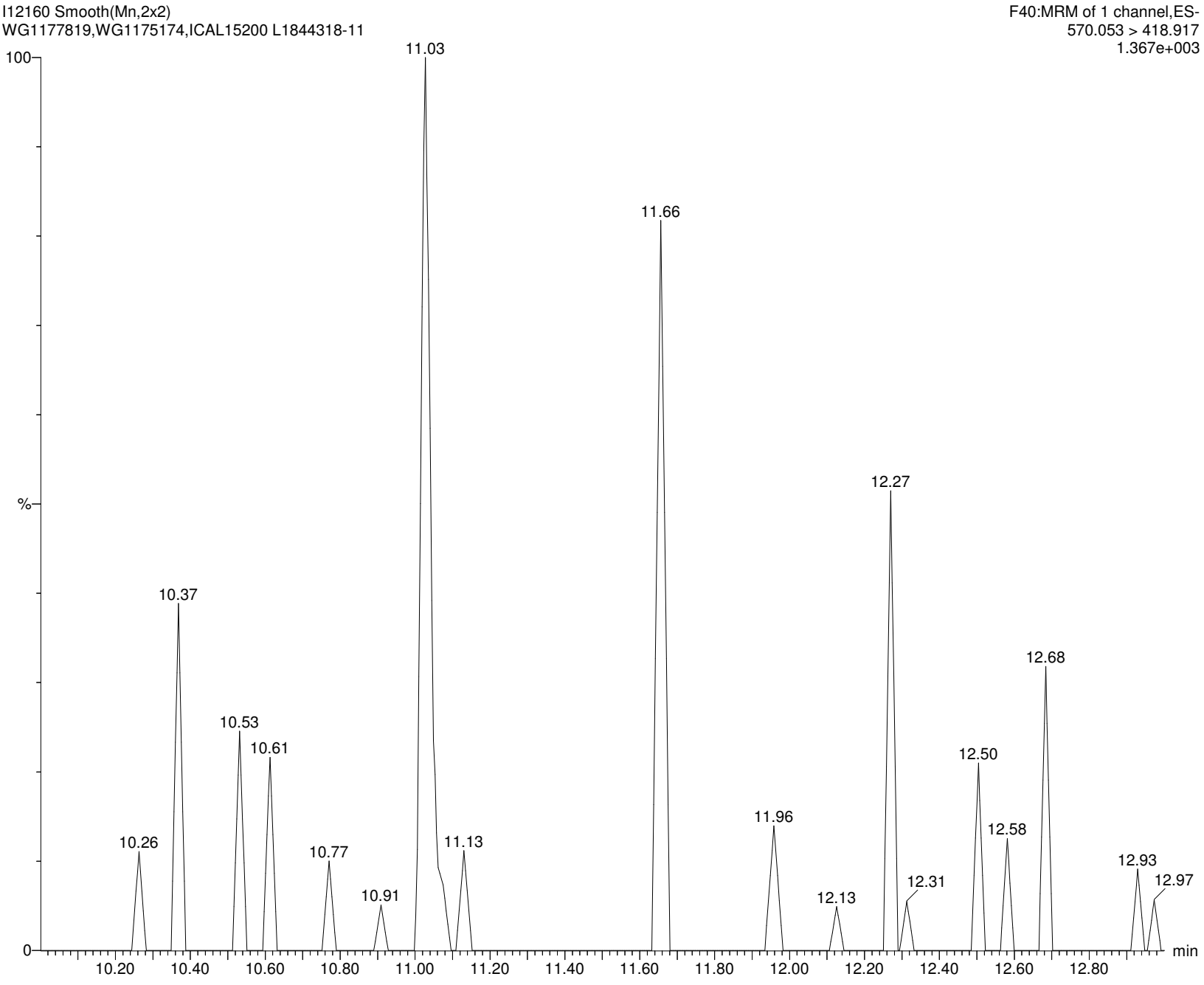

all concentration units in (ng/mL)

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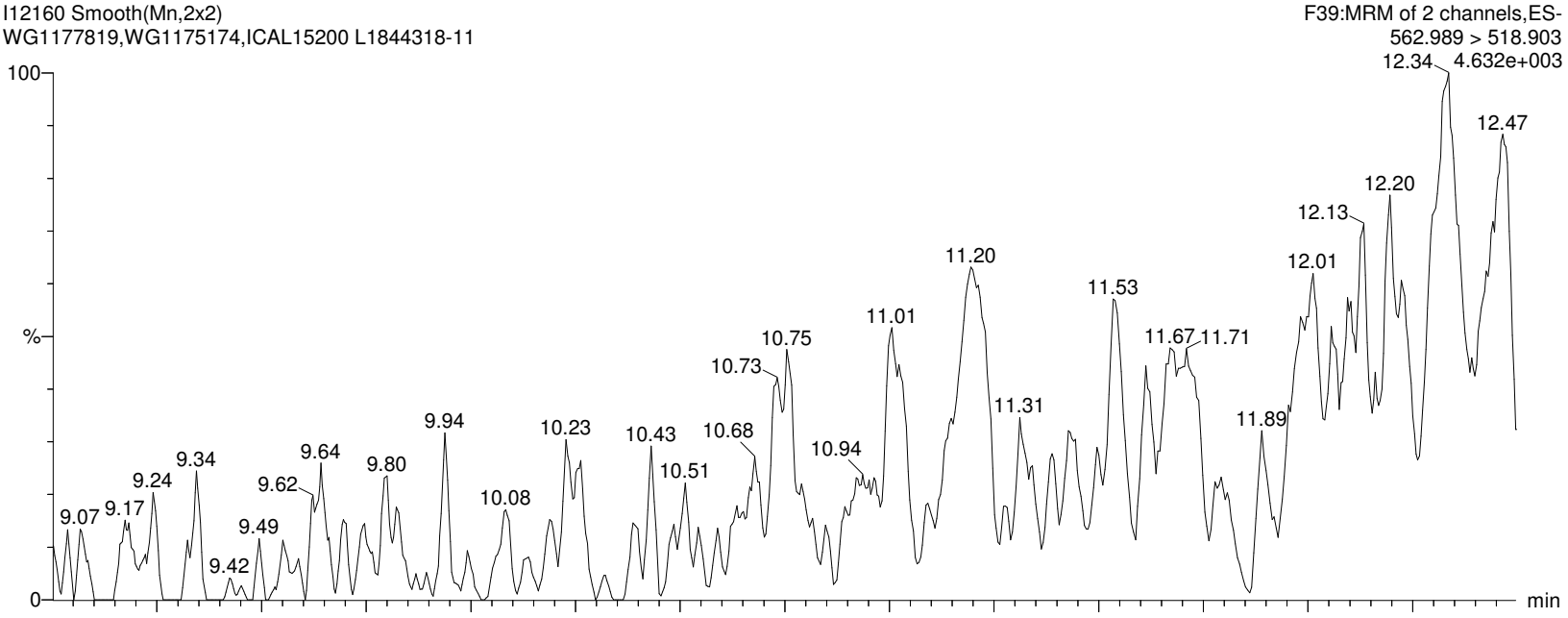

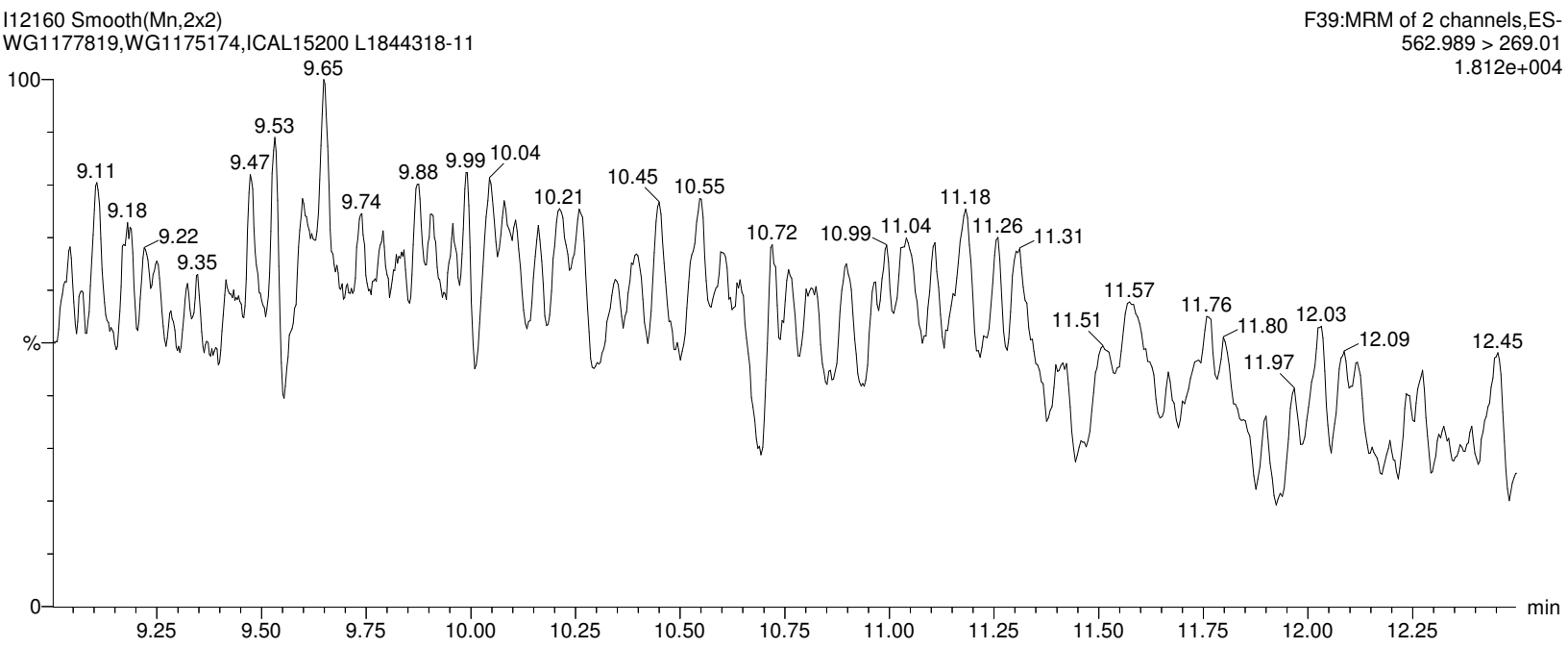

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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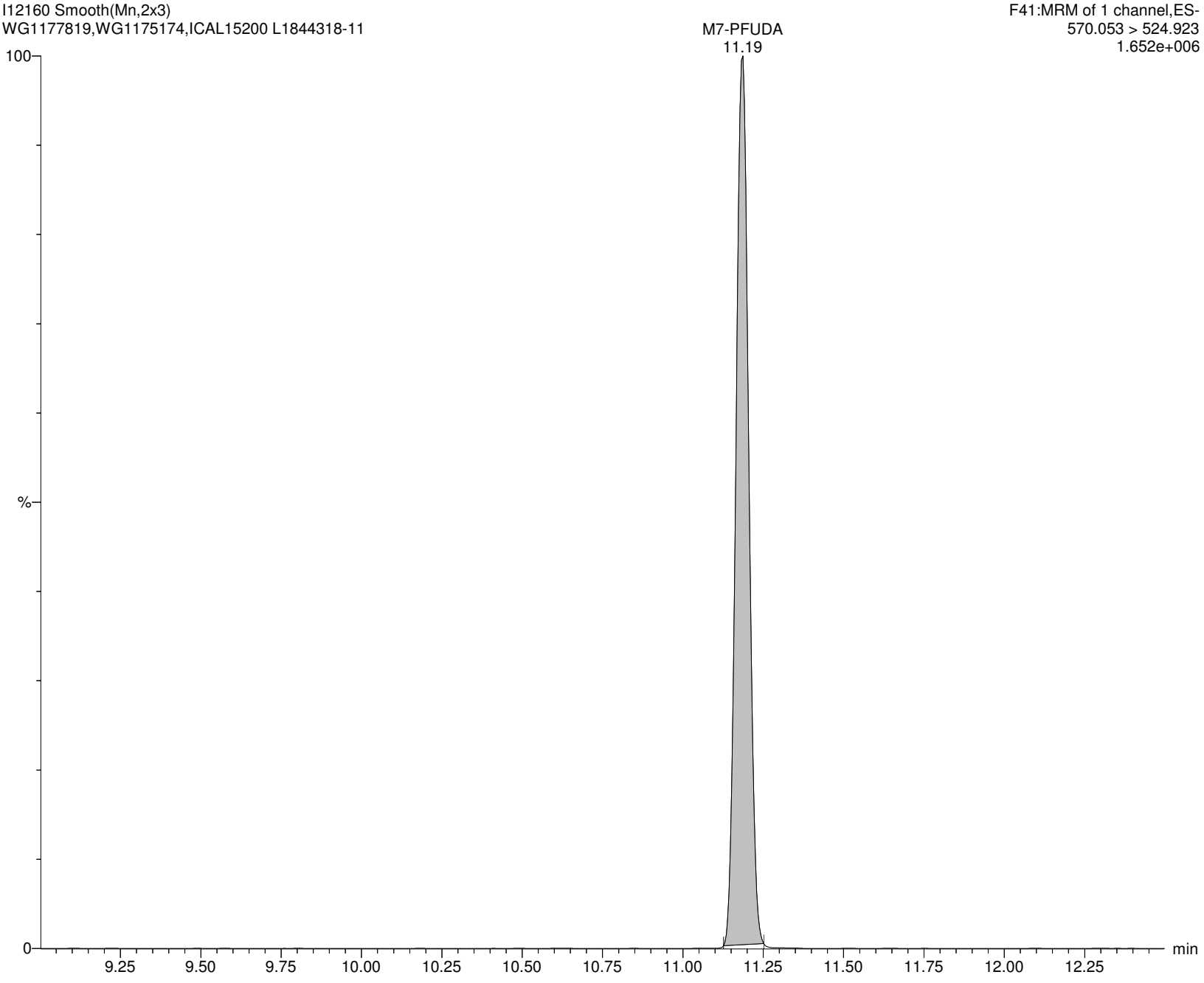

all concentration units in (ng/mL)

Alpha Analytical Inc.
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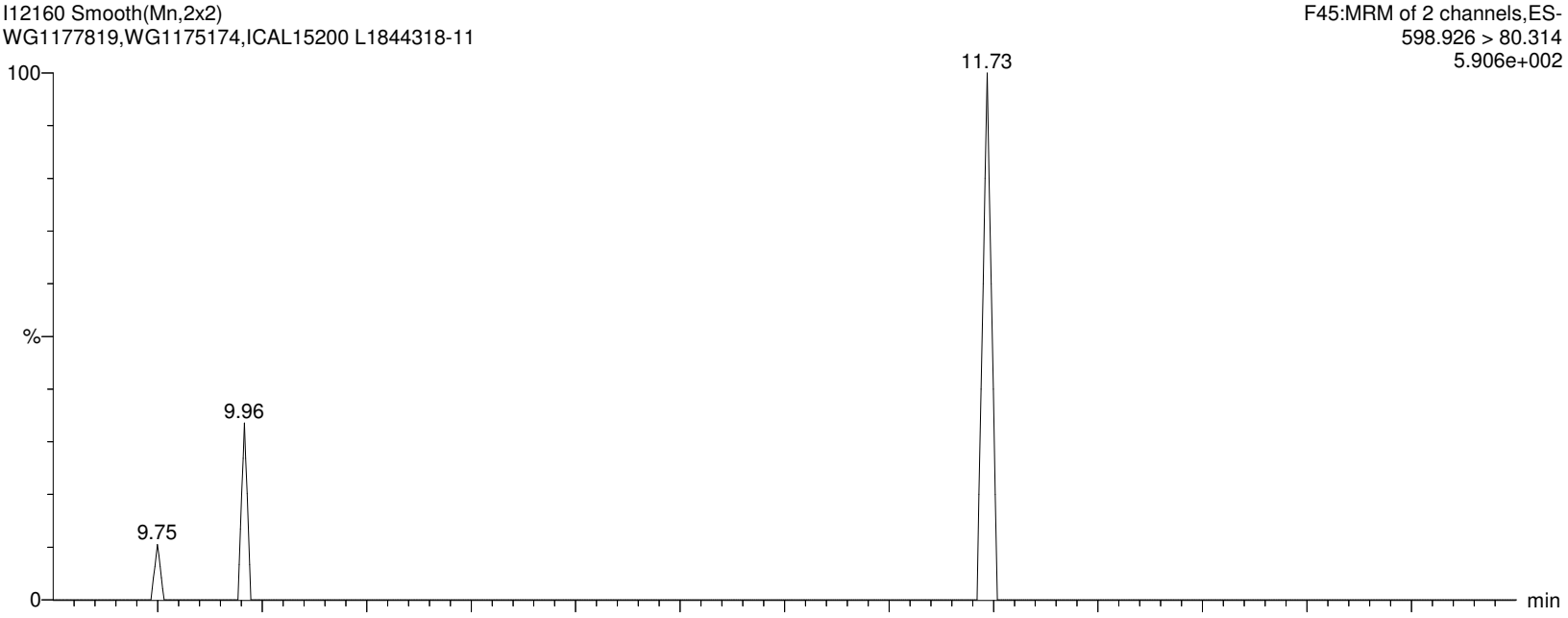

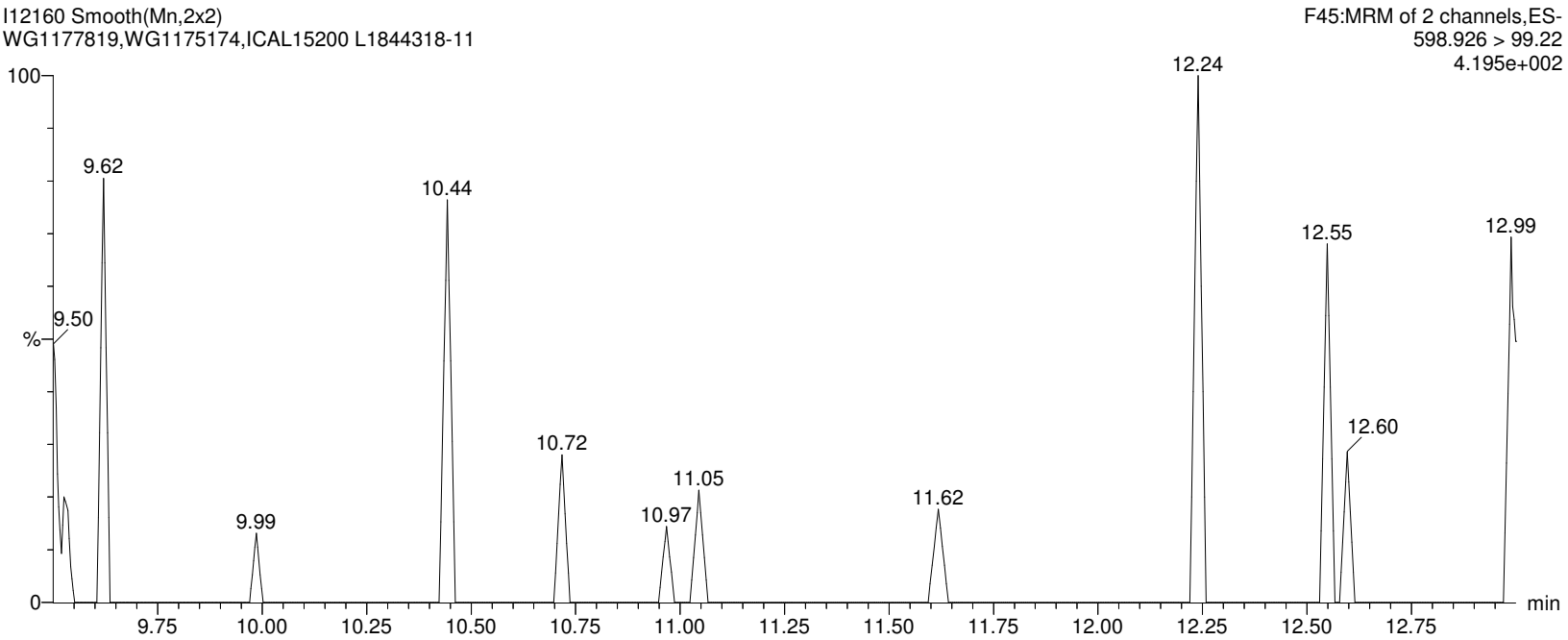

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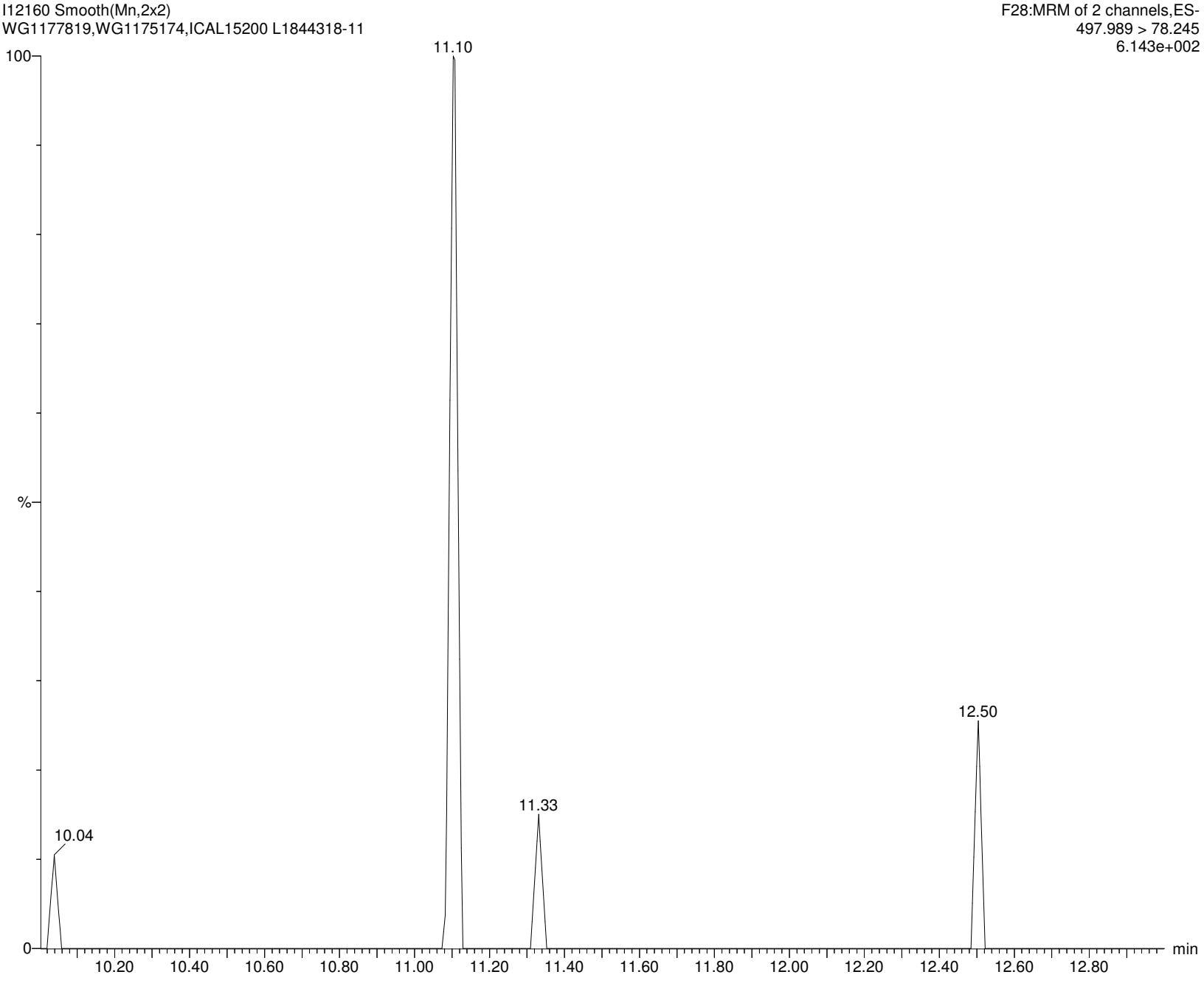

all concentration units in (ng/mL)

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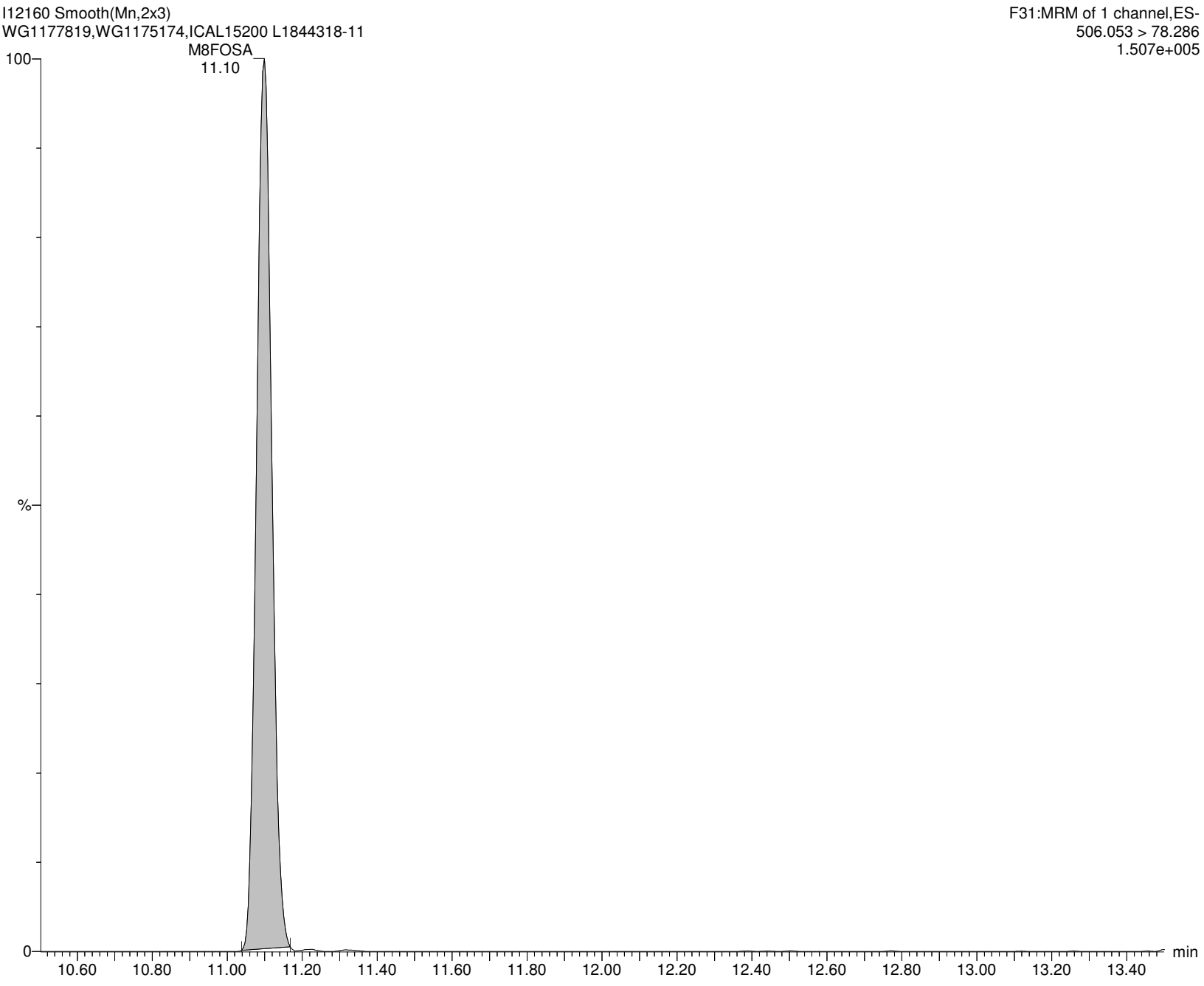

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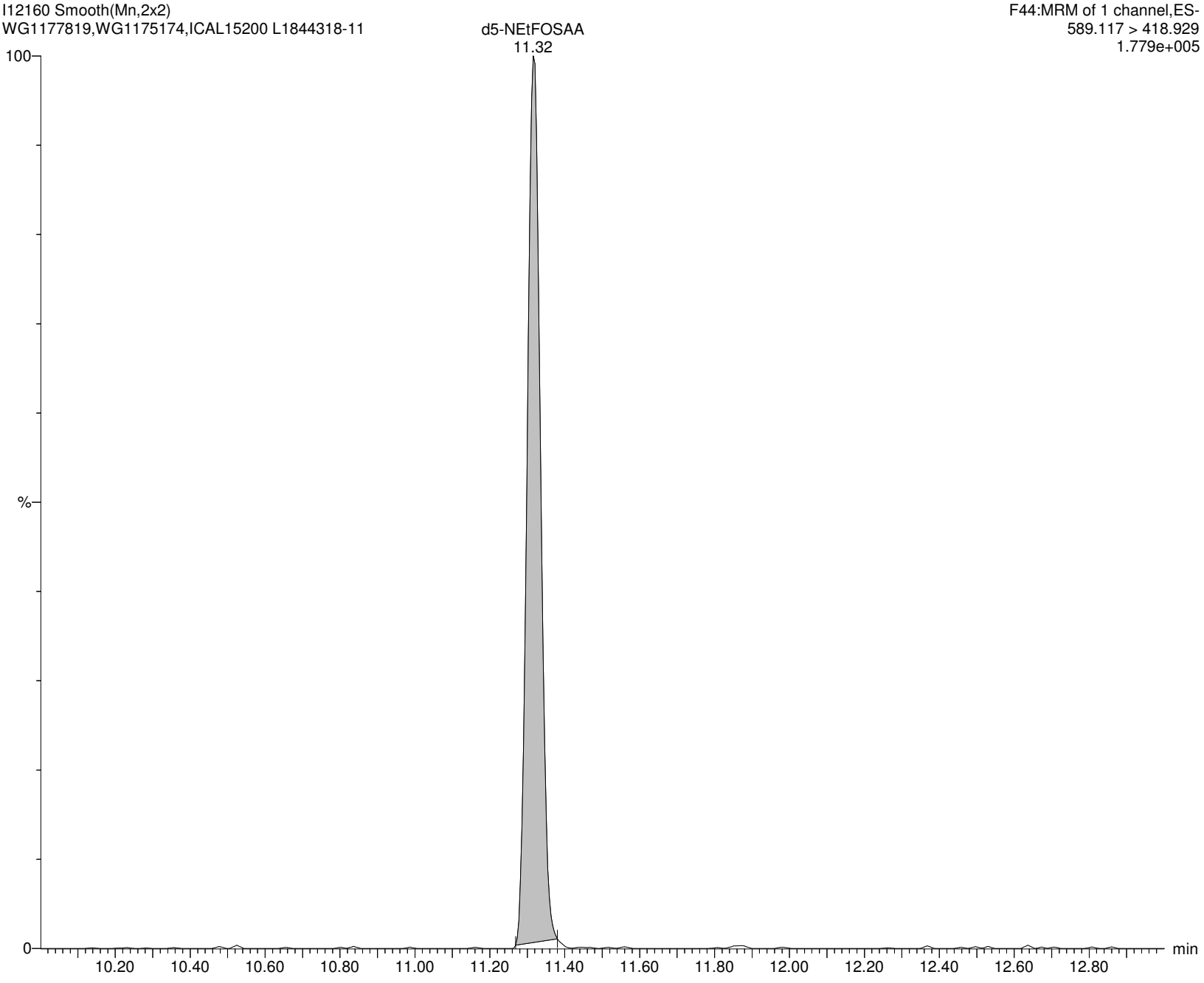
d5-NEtFOSAA



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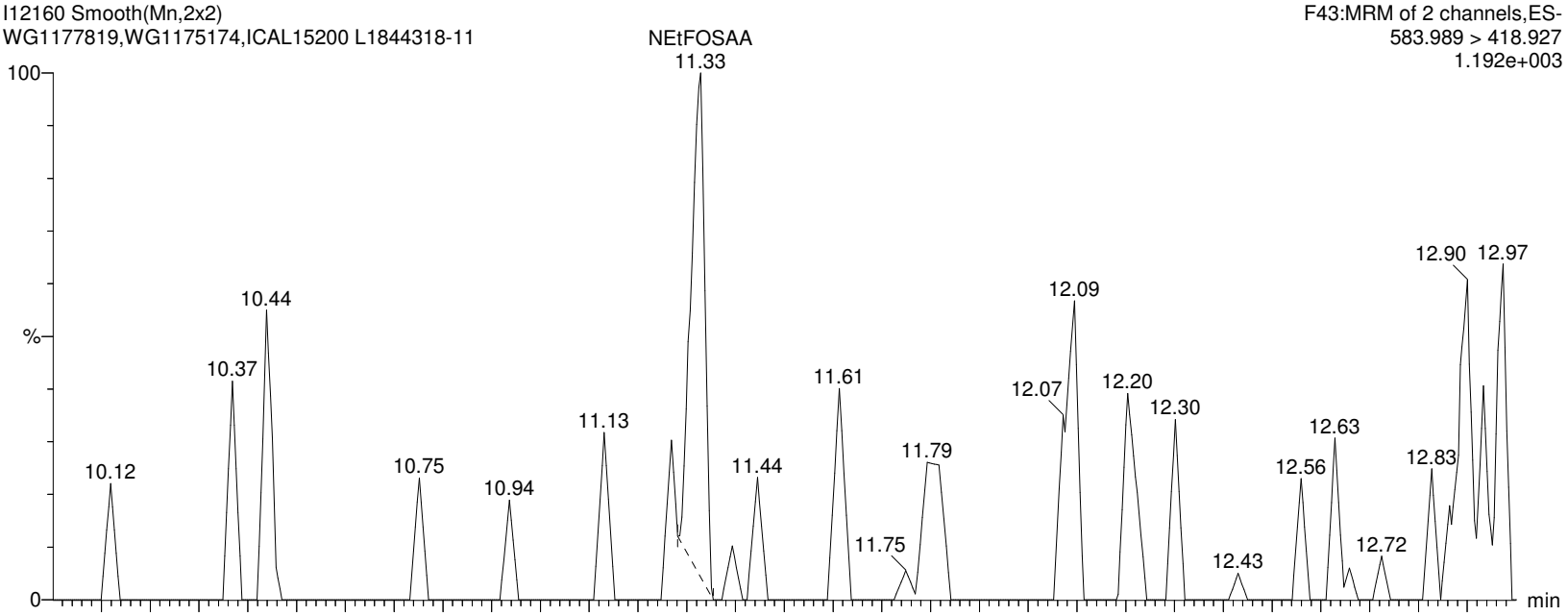

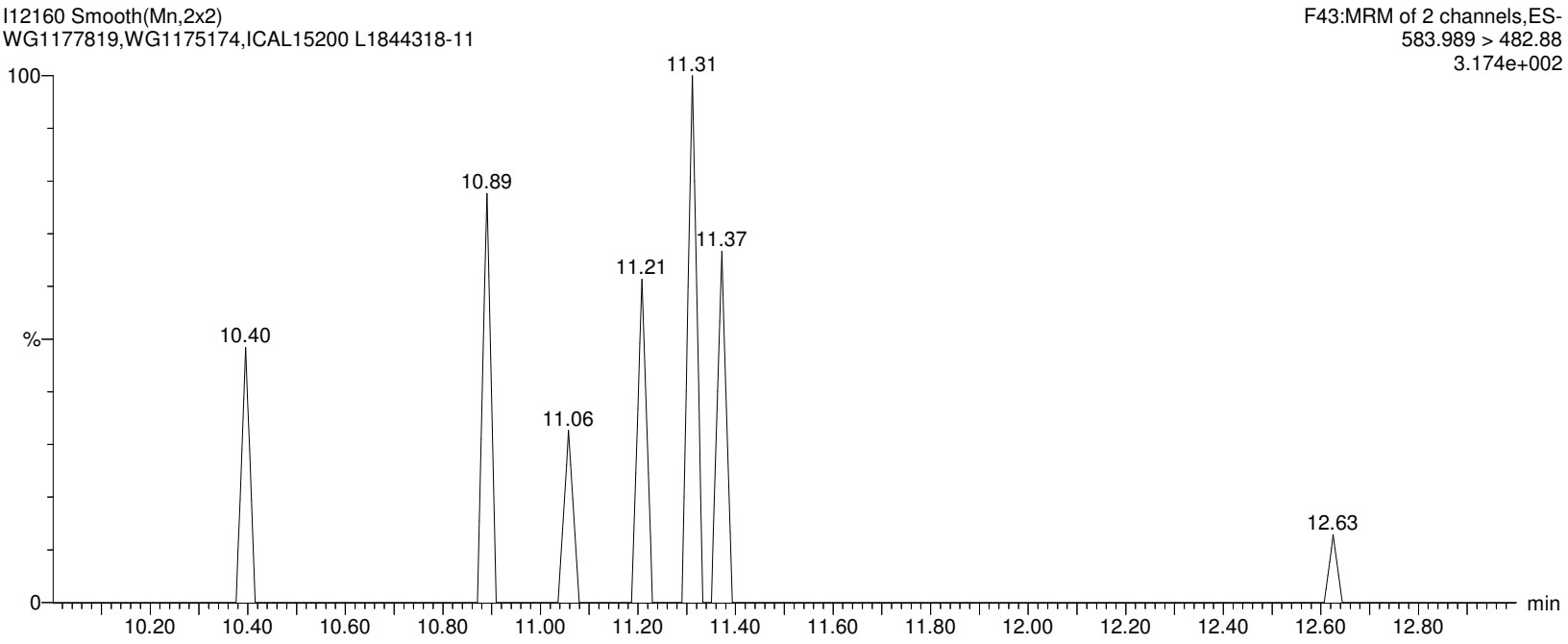

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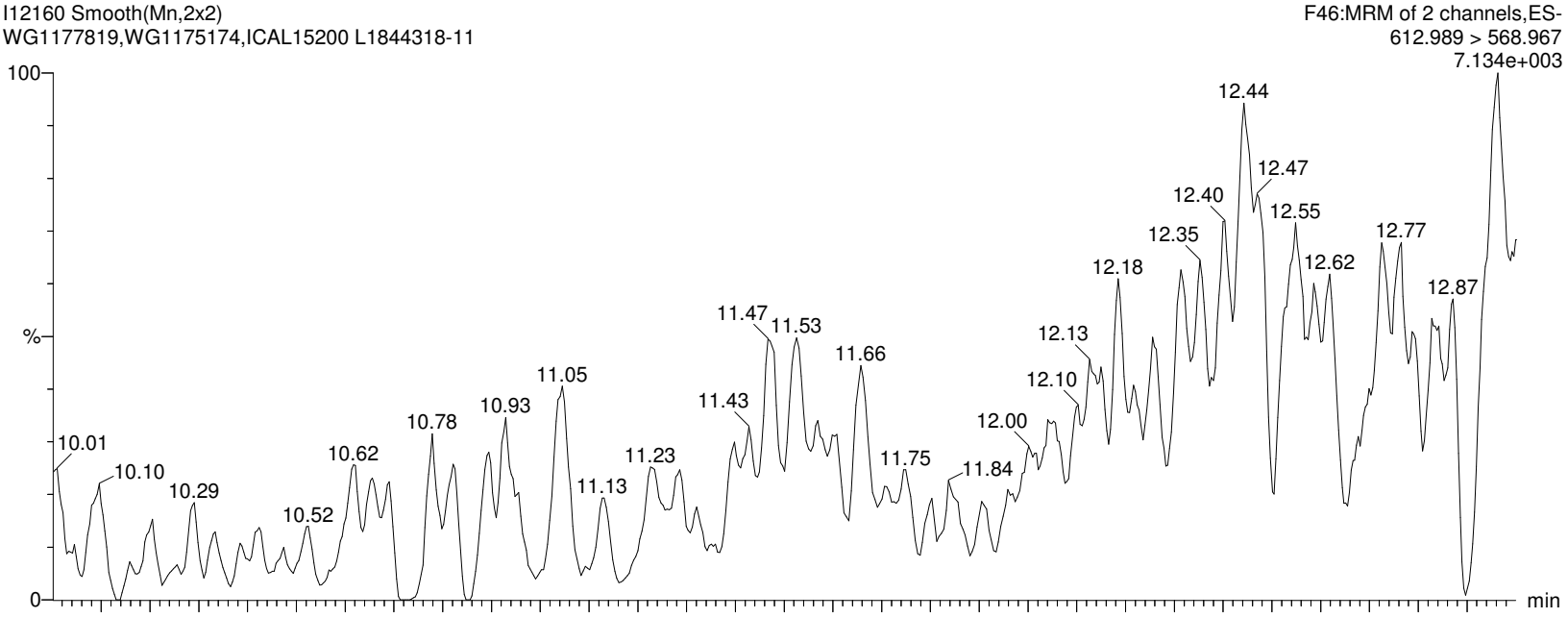
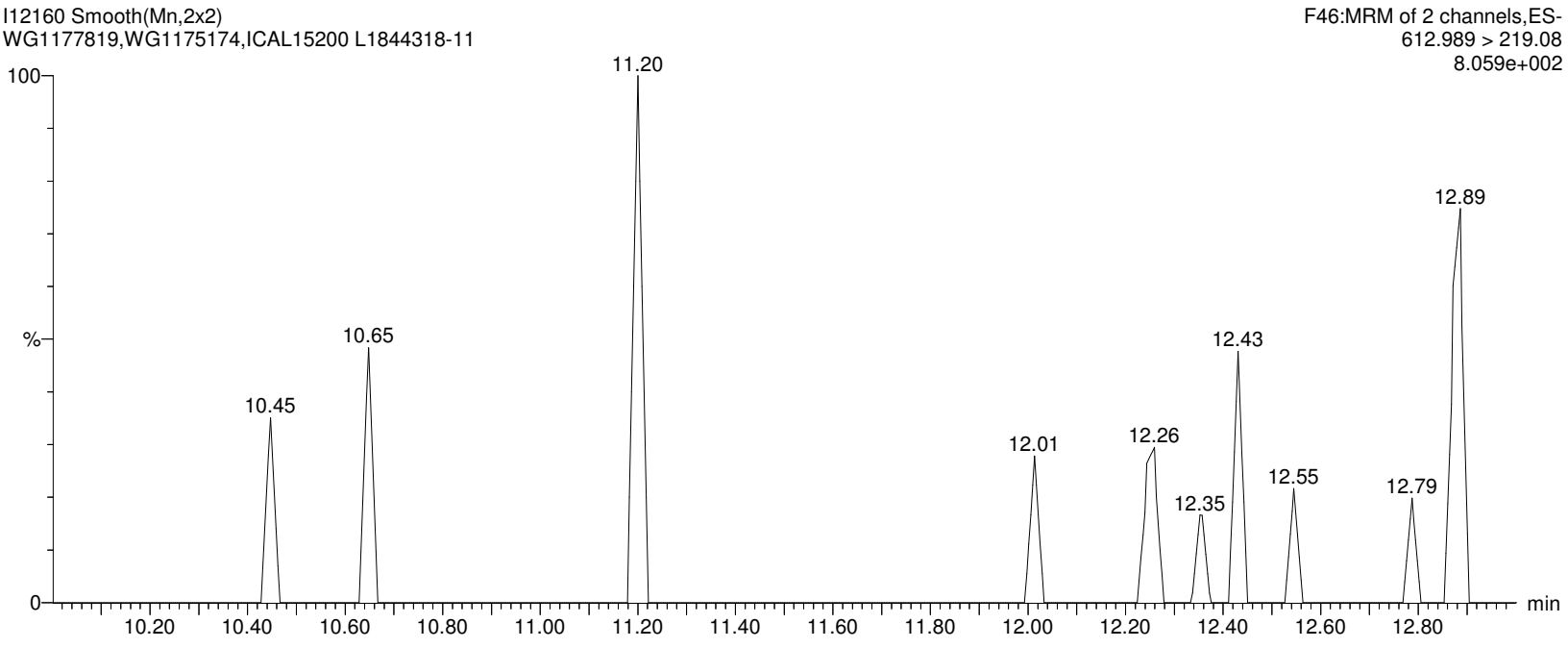
PFDoA



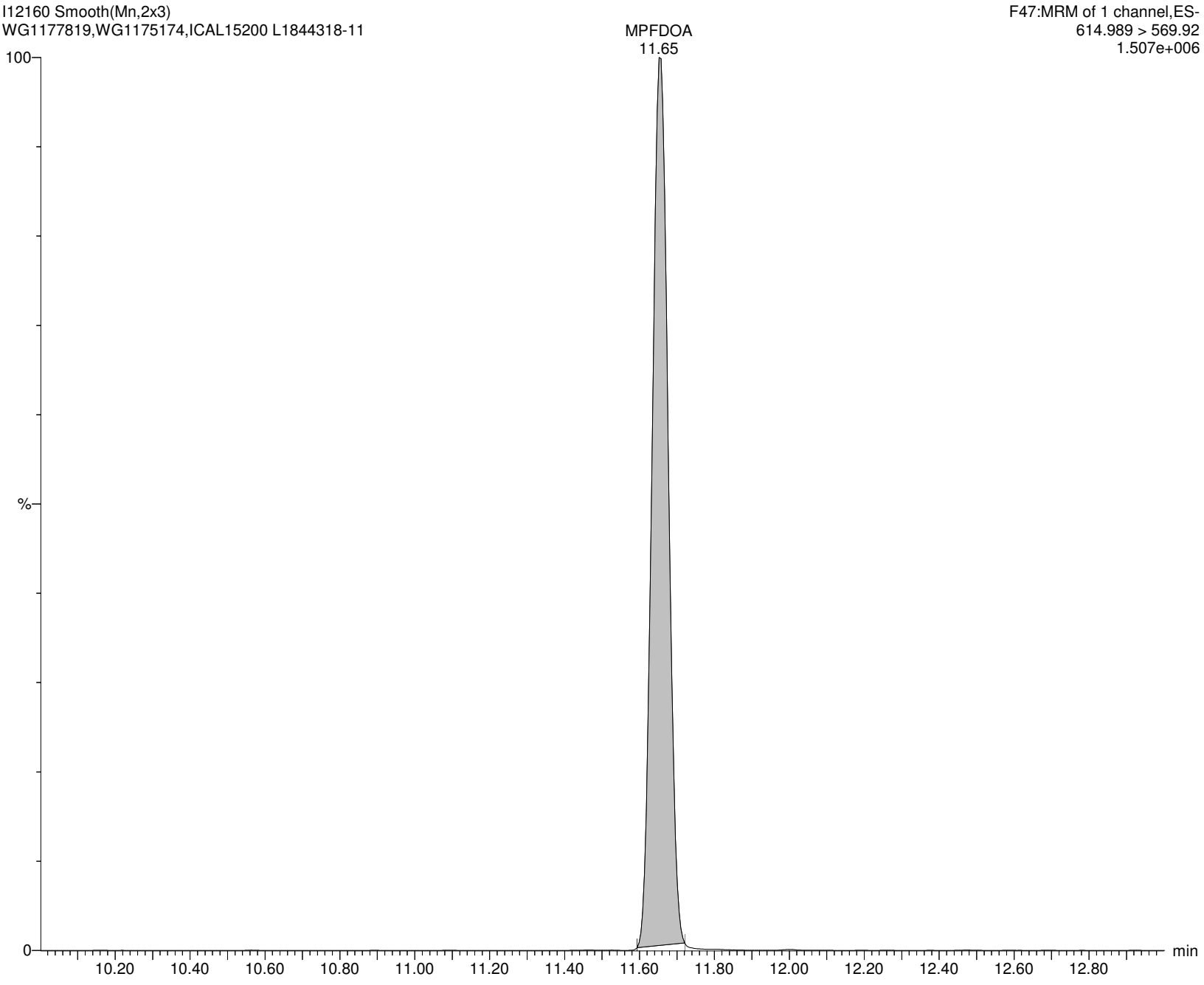


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

MPFDOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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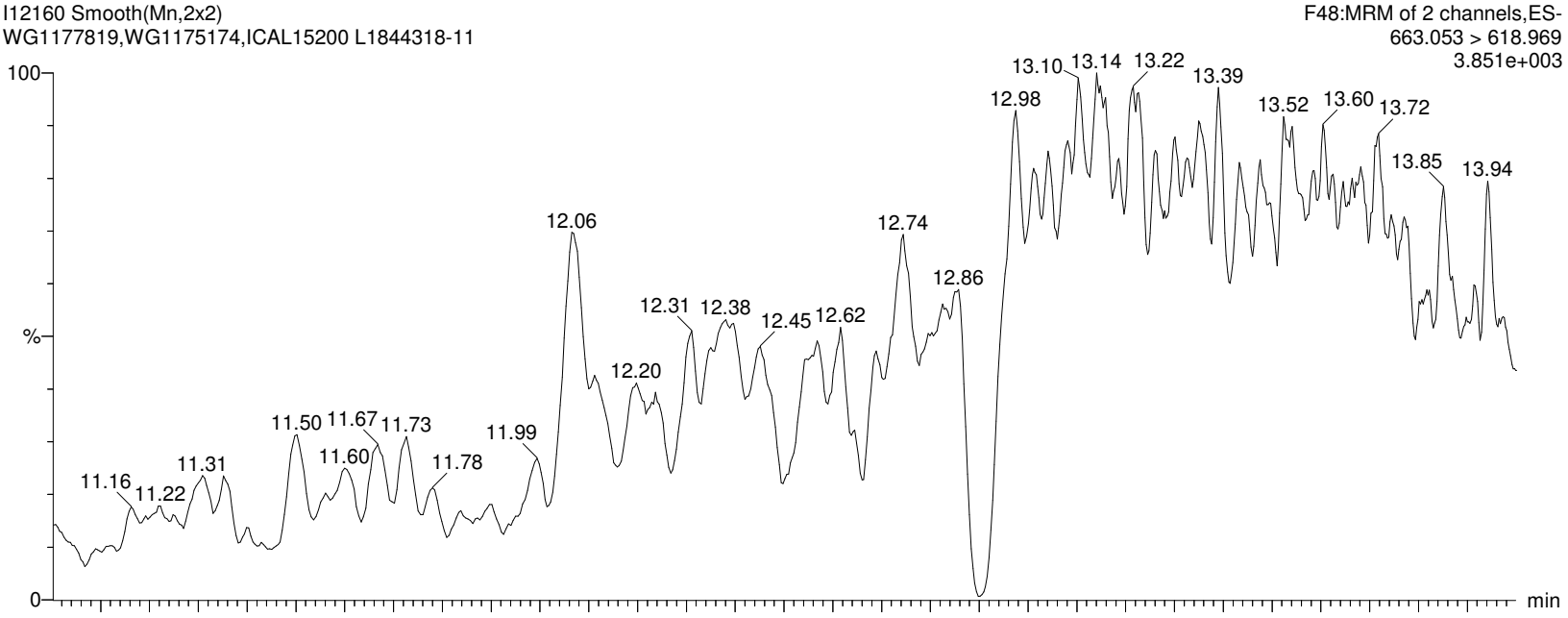
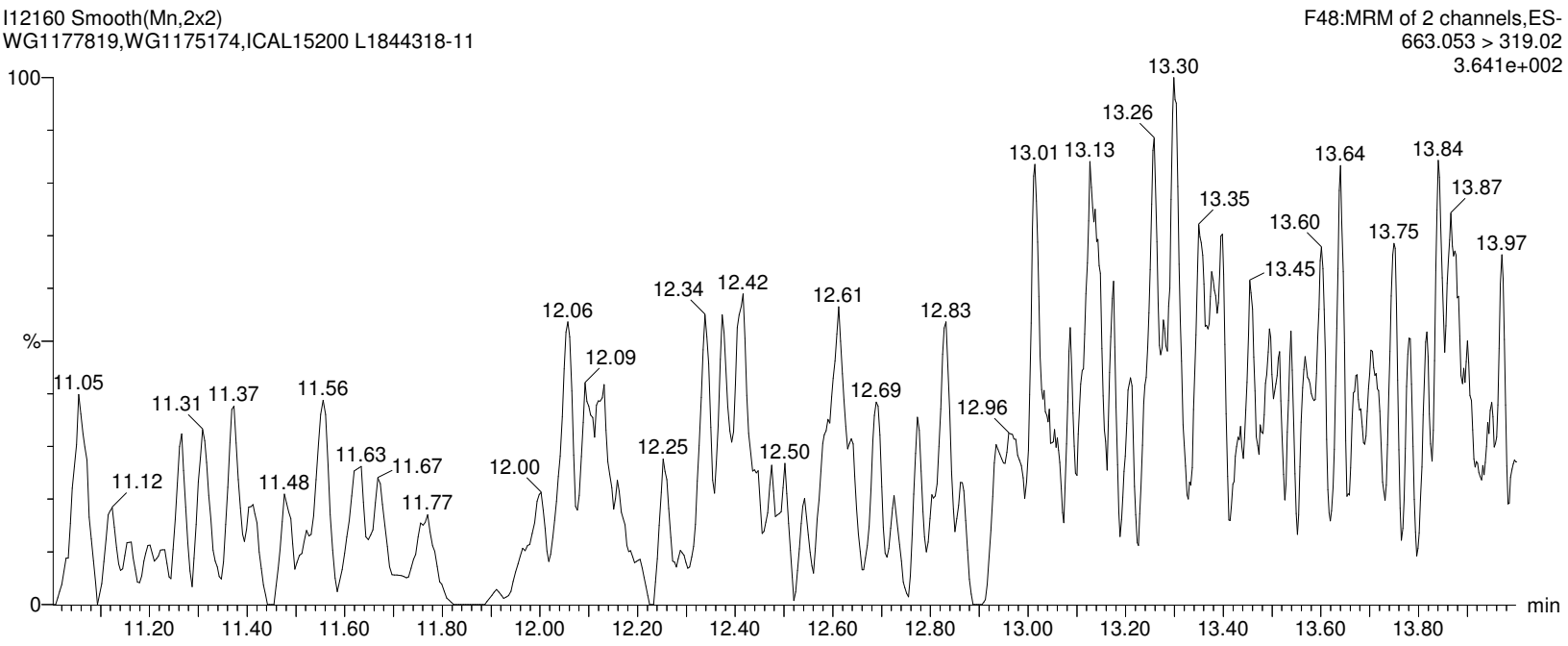
PFTrDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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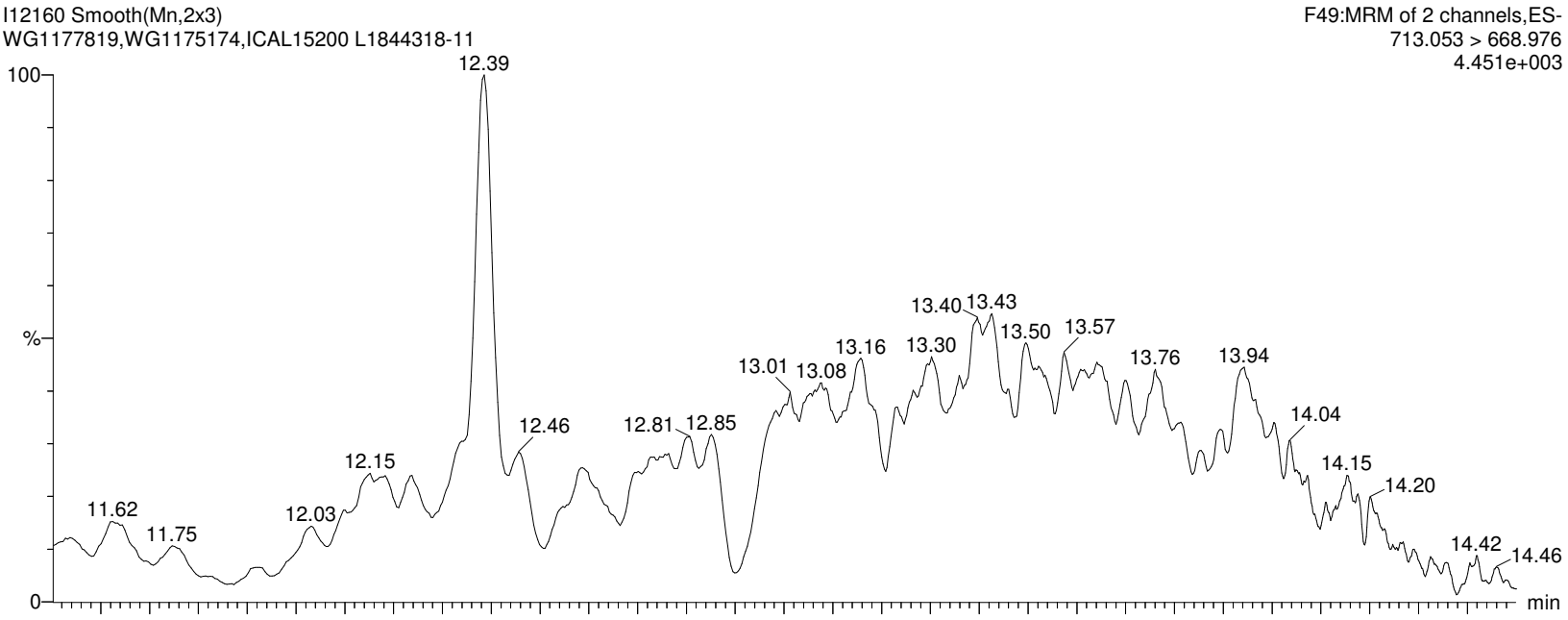
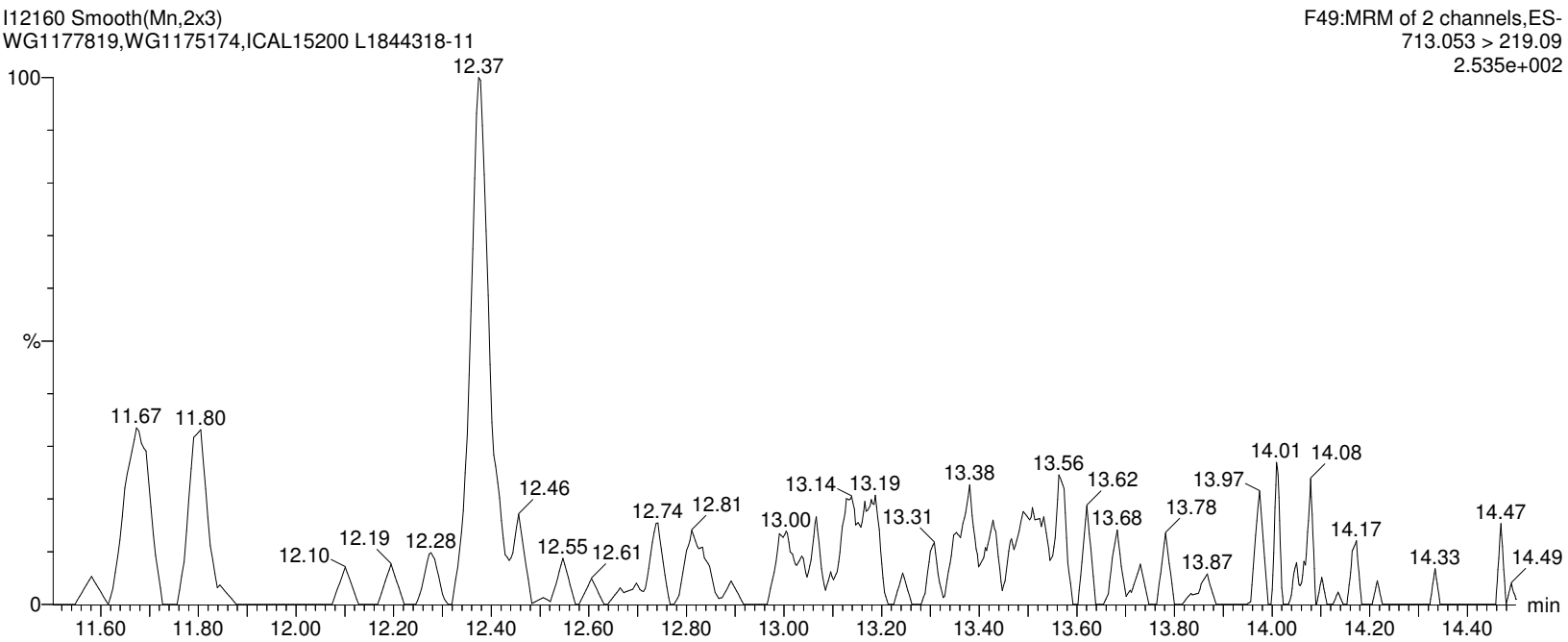
PFTA



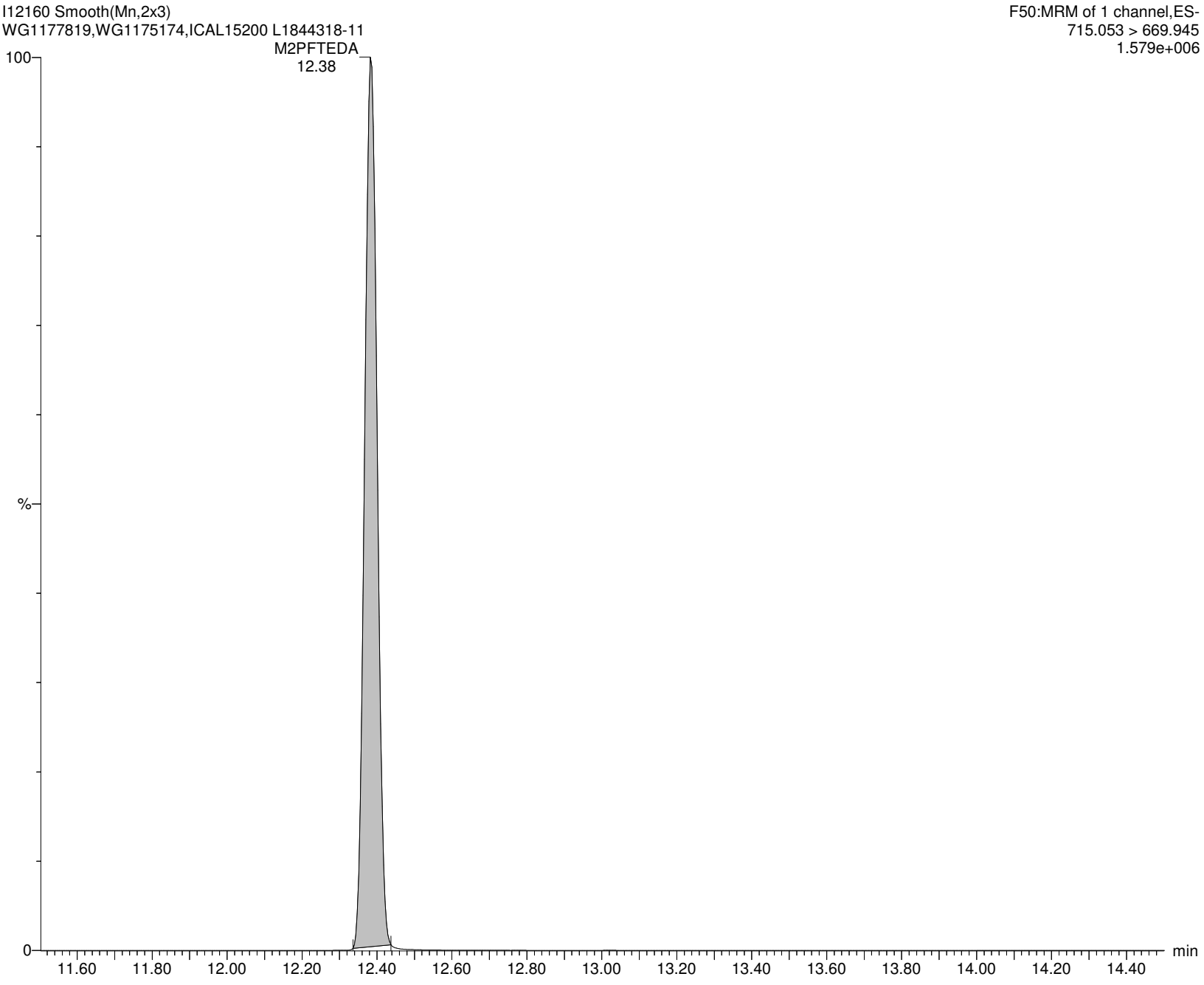


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:06 Eastern Standard Time

Name: I12160
ID: L1844318-11
Date: 10-Nov-2018
Time: 09:04:25
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2PFTEDA



all concentration units in (ng/mL)

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

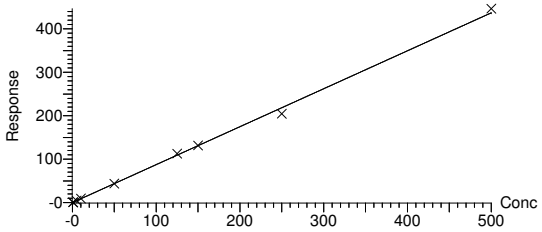
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.123	90611.000	3903.108	0.493	98.6	0.862	362		0.74
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.129	90581.969	37784.426	4.772	95.4	0.834	2507		0.72
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.129	88462.320	7099.602	0.918	91.8	0.803	796		0.75
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.129	98877.352	91096.602	10.540	105.4	0.921	6350		0.82
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.123	86777.555	379916.281	50.084	100.2	0.876	23186		0.77
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.129	85635.492	966697.063	129.140	103.3	0.903	43391		0.72
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.129	85050.922	1118317.375	150.421	100.3	0.877	58405		0.76
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.129	87715.078	1795465.250	234.167	93.7	0.819	68922		0.64
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.134	76700.359	3425834.750	510.966	102.2	0.893	71134		0.92

Compound name: PFBA
Coefficient of Determination: R^2 = 0.998664
Calibration curve: 0.874133 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

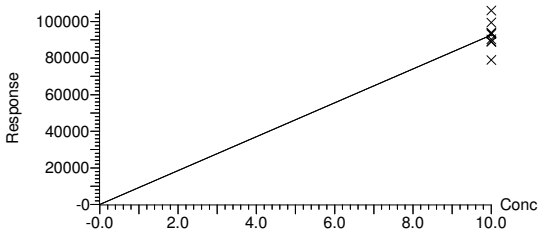
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.120		99374.234	10.736	107.4	9937.423	3769		0.86
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.125		93699.781	10.123	101.2	9369.978	2432		0.81
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.120		90222.984	9.747	97.5	9022.298	1198		0.84
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.120		105967.289	11.448	114.5	10596.729	1996		0.92
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.120		93852.016	10.139	101.4	9385.202	3409		0.81
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.120		88730.164	9.586	95.9	8873.016	1720		0.78
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.120		89166.836	9.633	96.3	8916.684	2576		0.82
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.125		93058.227	10.053	100.5	9305.823	3318		0.69
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.131		79014.406	8.536	85.4	7901.441	2412		0.63

Compound name: M3PFBA
Response Factor: 9256.51
RRF SD: 745.429, % Relative SD: 8.05302
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

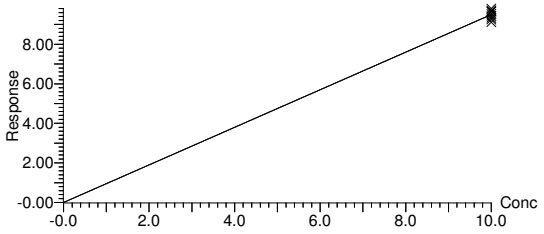
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.116	99374.234	90611.000	9.599	96.0	0.912	33694		0.87
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.122	93699.781	90581.969	10.177	101.8	0.967	28961		0.82
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.122	90222.984	88462.320	10.322	103.2	0.980	13724		0.82
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.122	105967.289	98877.352	9.823	98.2	0.933	17596		0.90
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.116	93852.016	86777.555	9.734	97.3	0.925	16526		0.84
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.122	88730.164	85635.492	10.160	101.6	0.965	12055		0.79
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.122	89166.836	85050.922	10.042	100.4	0.954	8626		0.79
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.122	93058.227	87715.078	9.923	99.2	0.943	8847		0.70
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.127	79014.406	76700.359	10.219	102.2	0.971	10912		0.63

Compound name: MPFBA
Response Factor: 0.949889
RRF SD: 0.0232499, % Relative SD: 2.44764
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

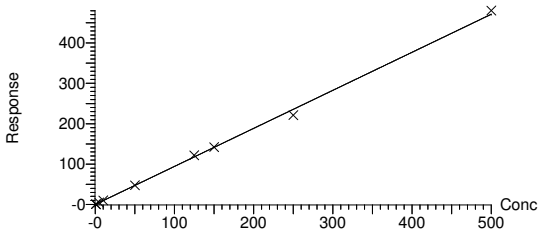
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.088	123581.453	5894.679	0.506	101.2	0.954	222		1.14
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.086	121476.508	54199.105	4.734	94.7	0.892	3473		1.07
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.088	117923.852	10492.281	0.944	94.4	0.890	606		1.15
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.091	132379.875	133380.484	10.691	106.9	1.008	8031		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.086	114460.516	542936.625	50.330	100.7	0.949	16454		1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.088	108966.594	1329902.500	129.497	103.6	0.976	71547		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.086	106080.625	1504891.625	150.523	100.3	0.946	57448		1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.081	107826.148	2383682.750	234.562	93.8	0.884	2429		1.01
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.084	90078.891	4327276.000	509.713	101.9	0.961	29719		0.80

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.998716
Calibration curve: 0.942467 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

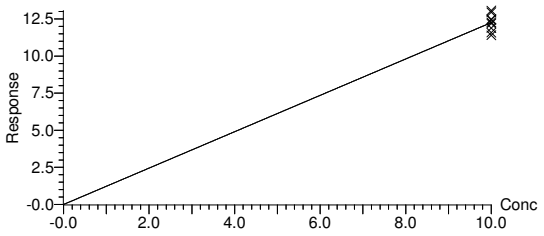
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.084	99374.234	123581.453	10.145	101.5	1.244	11712		1.08
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.086	93699.781	121476.508	10.576	105.8	1.296	11038		1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.086	90222.984	117923.852	10.662	106.6	1.307	15200		1.06
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.090	105967.289	132379.875	10.191	101.9	1.249	807		1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.083	93852.016	114460.516	9.949	99.5	1.220	10701		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.086	88730.164	108966.594	10.018	100.2	1.228	11636		1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.084	89166.836	106080.625	9.705	97.1	1.190	6856		1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.079	93058.227	107826.148	9.452	94.5	1.159	2630		1.01
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.084	79014.406	90078.891	9.300	93.0	1.140	237		0.73

Compound name: M5PFPEA
Response Factor: 1.22582
RRF SD: 0.0566373, % Relative SD: 4.62036
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

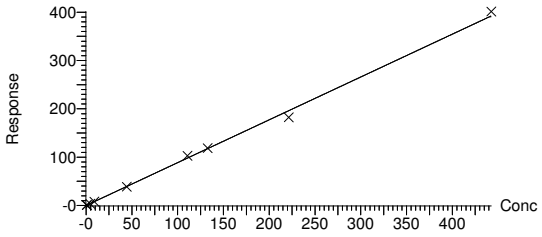
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.769	21862.414	736.608	0.380	85.9	0.761	160		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.774	21758.773	7737.196	4.011	90.6	0.804	1747		0.97
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.776	21034.404	1576.548	0.845	95.5	0.847	95		1.00
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.776	23904.336	19346.754	9.129	103.2	0.915	3790		0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.771	20483.826	79104.844	43.560	98.4	0.873	6401		0.95
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.774	18880.838	194064.359	115.936	104.8	0.929	925		0.99
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.771	18657.688	221473.516	133.893	100.9	0.894	794		0.96
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.766	18491.330	336793.438	205.442	92.9	0.823	19095		0.89
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.769	15241.547	611821.500	452.782	102.3	0.907	7088		0.69

Compound name: PFBS
Coefficient of Determination: R^2 = 0.998203
Calibration curve: 0.886557 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

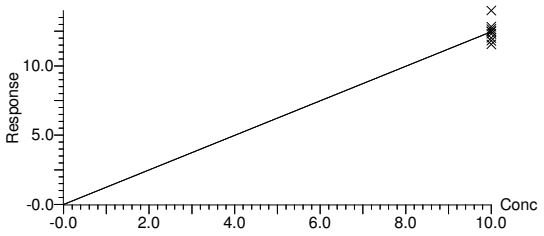
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.772	18917.949	21862.414	9.271	92.7	1.156	5211		1.00
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.772	17192.434	21758.773	10.153	101.5	1.266	4869		0.96
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.774	17070.037	21034.404	9.885	98.8	1.232	4957		0.95
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.776	20248.705	23904.336	9.470	94.7	1.181	3026		0.96
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.772	17033.469	20483.826	9.647	96.5	1.203	3441		0.97
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.772	15101.478	18880.838	10.030	100.3	1.250	3322		0.98
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.772	14936.428	18657.688	10.021	100.2	1.249	1282		0.97
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.764	14405.832	18491.330	10.297	103.0	1.284	399		0.91
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.767	10889.615	15241.547	11.228	112.3	1.400	2409		0.72

Compound name: M3PFBS
Response Factor: 1.24658
RRF SD: 0.0706701, % Relative SD: 5.66912
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

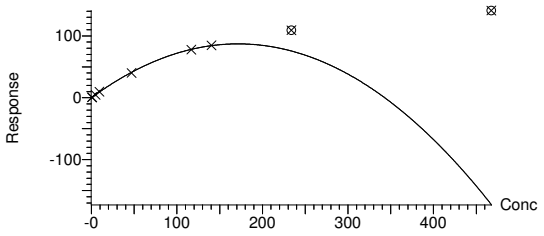
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	6.948	10801.237	522.123	0.476	101.9	1.034	56	37	1.09
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	6.955	11075.631	5221.964	4.704	100.6	1.009	509	221	0.95
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	6.959	10207.709	1002.538	0.969	103.7	1.050	100	65	1.03
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	6.959	12450.426	12319.450	10.031	107.3	1.058	1411	870	0.98
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	6.959	12644.036	50697.527	45.493	97.3	0.858	4234	2660	0.91
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	6.959	16525.570	128803.039	115.803	99.1	0.667	14012	3730	0.99
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	6.959	17148.203	145410.203	143.429	102.3	0.605	13700	8717	0.96
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	6.948	22131.100	241618.766			0.467	21038	11938	0.92
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	6.941	29667.691	418371.719			0.302	22787	12833	0.95

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.999518
Calibration curve: -0.00296271 * x^2 + 1.01615 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

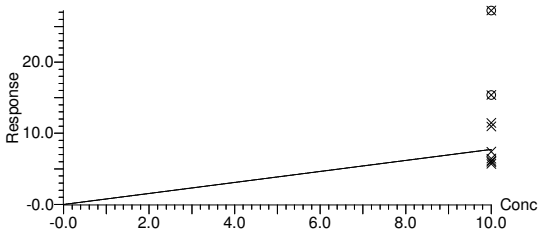
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	6.952	18917.949	10801.237	7.384	73.8	0.571	1051		0.97
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	6.956	17192.434	11075.631	8.331	83.3	0.644	673		0.90
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	6.960	17070.037	10207.709	7.734	77.3	0.598	994		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	6.956	20248.705	12450.426	7.952	79.5	0.615	1366		1.02
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	6.959	17033.469	12644.036	9.600	96.0	0.742	1196		0.90
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	6.964	15101.478	16525.570	14.152	141.5	1.094	1453		0.94
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	6.959	14936.428	17148.203	14.848	148.5	1.148	2717		0.92
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	6.945	14405.832	22131.100	19.868	198.7	1.536	1758		0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	6.941	10889.615	29667.691	35.233	352.3	2.724	2542		0.91

Compound name: M2-4:2FTS
Response Factor: 0.773245
RRF SD: 0.244234, % Relative SD: 31.5856
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

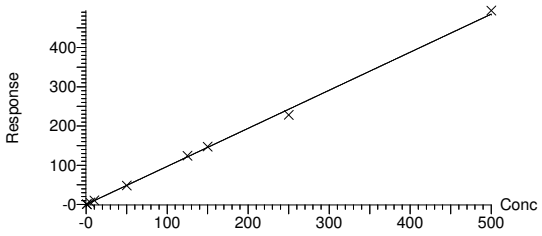
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.030	152927.344	7418.188	0.500	100.0	0.970	502		0.92
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.033	150146.438	69850.984	4.794	95.9	0.930	4844	205	0.97
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.039	147625.594	13055.866	0.911	91.1	0.884	809	49	0.97
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.036	159418.438	165646.688	10.707	107.1	1.039	10765	557	0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.036	137118.859	661612.000	49.719	99.4	0.965	35974	1392	0.98
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.039	128296.641	1595912.500	128.178	102.5	0.995	35889	4627	1.02
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.039	124050.375	1830315.500	152.037	101.4	0.984	63864	5587	1.03
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.027	123433.031	2818024.000	235.252	94.1	0.913	70478	7470	1.05
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.021	98424.992	4865696.500	509.401	101.9	0.989	83288	14642	1.04

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.998856
Calibration curve: 0.970464 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

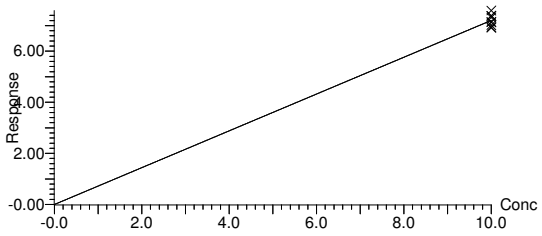
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.028	221190.594	152927.344	9.597	96.0	0.691	7317		1.00
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.033	205103.734	150146.438	10.161	101.6	0.732	13731		1.00
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.036	194474.000	147625.594	10.537	105.4	0.759	12595		1.02
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.036	229697.266	159418.438	9.634	96.3	0.694	14405		1.00
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.036	195261.016	137118.859	9.748	97.5	0.702	8260		0.99
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.040	173754.250	128296.641	10.249	102.5	0.738	10137		1.01
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.039	173456.234	124050.375	9.927	99.3	0.715	9567		1.01
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.024	173018.406	123433.031	9.903	99.0	0.713	9609		1.02
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.018	133364.344	98424.992	10.244	102.4	0.738	5282		1.07

Compound name: M5PFHxA
Response Factor: 0.72042
RRF SD: 0.0229413, % Relative SD: 3.18444
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

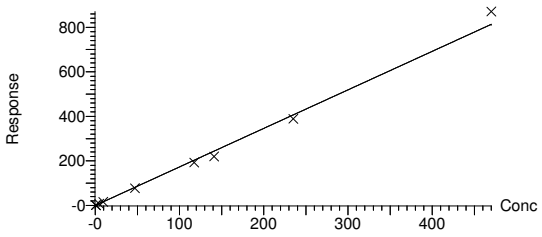
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.356	12603.866	922.360	0.423	90.0	1.557	295	62	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.361	12801.264	9181.299	4.145	88.2	1.526	1777	582	0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.365	12554.657	1618.341	0.745	79.3	1.371	251	90	1.06
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.367	13662.208	22322.963	9.444	100.5	1.738	2998	1264	1.00
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.365	11465.191	88457.609	44.594	94.9	1.642	10890	4737	1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.362	10899.231	210404.828	111.578	95.0	1.643	23395	11684	1.12
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.365	10734.342	236223.344	127.194	90.2	1.561	17292	12615	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.356	9339.244	363030.063	224.673	95.6	1.654	26183	14469	1.03
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.350	7064.417	615048.313	503.214	107.1	1.852	37545	17842	1.09

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.995365
Calibration curve: 1.73014 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

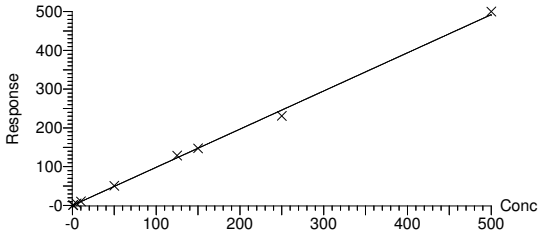
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.316	182619.453	9315.968	0.518	103.6	1.020	421	97	1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.325	180727.578	85063.578	4.781	95.6	0.941	4644	883	1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.332	172202.719	16017.420	0.945	94.5	0.930	802	154	1.02
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.329	193708.391	207868.688	10.900	109.0	1.073	11807	1797	1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.329	159822.125	811175.938	51.556	103.1	1.015	25817	8792	1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.325	150398.219	1935902.875	130.750	104.6	1.030	70451	21867	1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.332	146981.250	2161570.250	149.385	99.6	0.980	50371	16874	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.319	143584.172	3315793.000	234.574	93.8	0.924	52073	21822	1.12
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.313	110316.344	5517995.000	508.091	101.6	1.000	96753	37748	1.12

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998603
Calibration curve: 0.984465 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

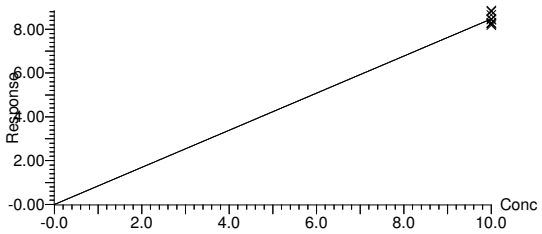
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.316	221190.594	182619.453	9.746	97.5	0.826	12919		1.08
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.322	205103.734	180727.578	10.402	104.0	0.881	15166		1.11
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.332	194474.000	172202.719	10.453	104.5	0.885	10541		1.10
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.326	229697.266	193708.391	9.955	99.6	0.843	12968		1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.326	195261.016	159822.125	9.662	96.6	0.819	10162		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.322	173754.250	150398.219	10.218	102.2	0.866	10409		1.15
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.332	173456.234	146981.250	10.003	100.0	0.847	6335		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.319	173018.406	143584.172	9.796	98.0	0.830	11080		1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.313	133364.344	110316.344	9.765	97.6	0.827	8010		1.13

Compound name: M4PFHpA
Response Factor: 0.84712
RRF SD: 0.0249019, % Relative SD: 2.93959
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

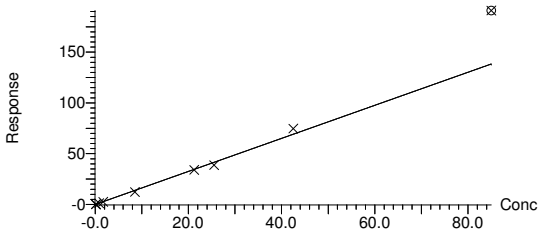
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.245	12603.866	145.931	0.071	83.7	1.362	4	2	0.37
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.255	12801.264	1457.679	0.700	82.3	1.340	49	17	0.80
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.264	12554.657	219.739	0.108	63.3	1.030	8	6	0.52
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.258	13662.208	3522.647	1.584	93.2	1.517	34	36	0.72
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.258	11465.191	14037.820	7.524	88.5	1.440	287	185	0.77
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.255	10899.231	37124.570	20.931	98.5	1.603	801	544	0.66
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.264	10734.342	41588.223	23.808	93.4	1.519	1527	432	0.68
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.252	9339.244	69649.523	45.829	107.8	1.755	1510	673	0.69
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.242	7064.417	134914.203	117.358	138.1	2.247	2341	979	0.82

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.994424
Calibration curve: 1.62731 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

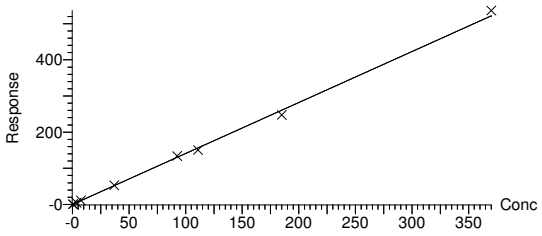
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.478	12603.866	688.256	0.387	104.7	1.476	26	17	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.491	12801.264	6308.765	3.495	94.5	1.332	373	214	1.03
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.497	12554.657	1165.684	0.658	89.0	1.255	72	47	0.98
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.491	13662.208	14999.265	7.786	105.2	1.484	221	354	0.90
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.491	11465.191	60652.902	37.517	101.4	1.430	2060	1732	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.488	10899.231	146329.750	95.213	102.9	1.451	4893	4446	1.07
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.497	10734.342	161734.609	106.853	96.3	1.357	9233	3355	1.12
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.481	9339.244	230959.172	175.382	94.8	1.337	7691	4460	1.12
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.475	7064.417	378945.750	380.418	102.8	1.450	9964	5503	1.10

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998639
Calibration curve: 1.41007 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

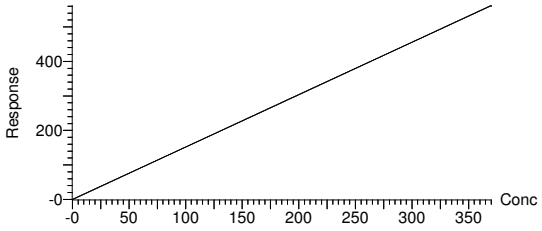
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		12603.866	834.187	0.458					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		12801.264	7766.444	4.195					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		12554.657	1385.423	0.766					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		13662.208	18521.912	9.370					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		11465.191	74690.722	45.041					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		10899.231	183454.320	116.145					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		10734.342	203322.832	130.661					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		9339.244	300608.695	221.210					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		7064.417	513859.953	497.776					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.51869 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration concentration units in (ng/mL)

Initial Calibration Summary
Form 6

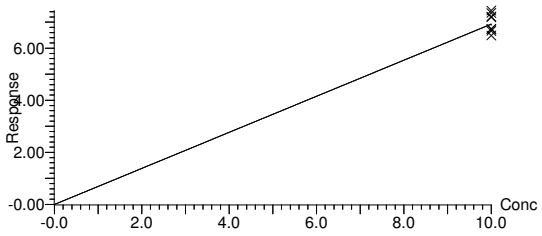
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.481	18917.949	12603.866	9.622	96.2	0.666	1344		0.93
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.491	17192.434	12801.264	10.754	107.5	0.745	279214		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.497	17070.037	12554.657	10.622	106.2	0.735	1169		0.98
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.491	20248.705	13662.208	9.745	97.4	0.675	1708		0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.491	17033.469	11465.191	9.721	97.2	0.673	862		1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.488	15101.478	10899.231	10.424	104.2	0.722	954		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.497	14936.428	10734.342	10.379	103.8	0.719	1078		1.02
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.484	14405.832	9339.244	9.363	93.6	0.648	489		1.06
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.475	10889.615	7064.417	9.369	93.7	0.649	44		1.05

Compound name: M3PFHxS
Response Factor: 0.692394
RRF SD: 0.0376689, % Relative SD: 5.44039
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

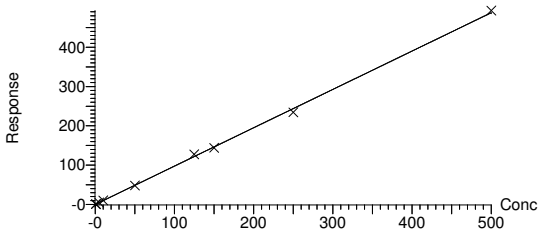
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		168819.391						1	
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		169481.359						1	
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		166287.438						1	
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		183051.500						1	
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		155940.359						2	
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		142569.578						4	
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		141625.406						4	
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		135964.875						4	
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		106021.633						8	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999203
Calibration curve: 0.975628 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

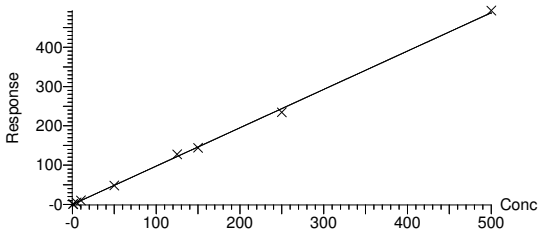
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.269	168819.391	9738.982	0.591	118.3	1.154	234	19	0.54
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.276	169481.359	80153.375	4.847	96.9	0.946	2185	197	2.72
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282	166287.438	16538.859	1.019	101.9	0.995	394	54	1.58
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276	183051.500	193919.234	10.858	108.6	1.059	5531	701	1.40
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276	155940.359	750653.500	49.340	98.7	0.963	13696	2684	1.50
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276	142569.578	1821190.625	130.931	104.7	1.022	21052	4421	1.91
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279	141625.406	2042821.000	147.844	98.6	0.962	34827	6895	1.53
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.269	135964.875	3188840.250	240.393	96.2	0.938	53451	5838	2.27
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.266	106021.633	5230587.000	505.675	101.1	0.987	32912	12112	2.19

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999203
Calibration curve: 0.975628 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
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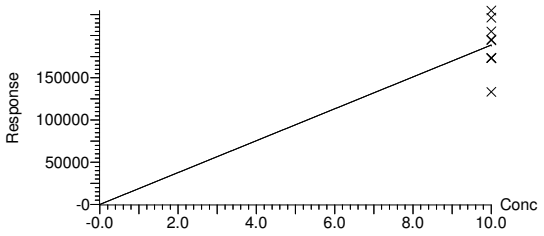
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.270		221190.594	11.715	117.1	22119.059	13268		1.32
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.273		205103.734	10.863	108.6	20510.373	10943		1.63
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282		194474.000	10.300	103.0	19447.400	6518		1.50
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276		229697.266	12.165	121.7	22969.727	10480		1.49
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276		195261.016	10.341	103.4	19526.102	8571		1.46
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276		173754.250	9.202	92.0	17375.425	5231		1.51
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279		173456.234	9.187	91.9	17345.623	5947		1.46
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.270		173018.406	9.163	91.6	17301.841	6620		1.49
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.263		133364.344	7.063	70.6	13336.434	5099		1.41

Compound name: M2PFOA
Coefficient of Determination: R^2 = 0.000000
Calibration curve: 18881.3 * x
Response type: External Std, Area
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

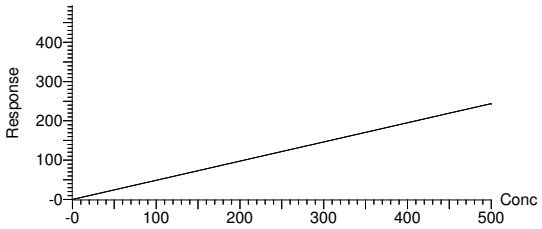
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		168819.391	9738.982	0.591					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		169481.359	80153.375	4.847					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		166287.438	16538.859	1.019					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		183051.500	193919.234	10.858					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		155940.359	750653.500	49.340					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		142569.578	1821190.625	130.931					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		141625.406	2042821.000	147.844					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		135964.875	3188840.250	240.393					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		106021.633	5230587.000	505.675					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.487814 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

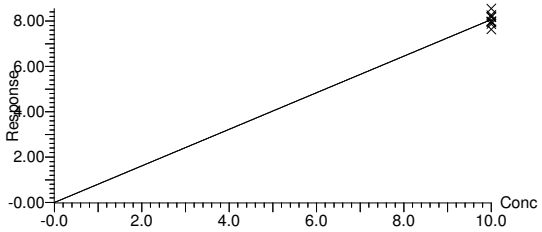
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.267	221190.594	168819.391	9.464	94.6	0.763	8129		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.273	205103.734	169481.359	10.246	102.5	0.826	15263		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282	194474.000	166287.438	10.603	106.0	0.855	8796		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276	229697.266	183051.500	9.882	98.8	0.797	8931		1.07
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276	195261.016	155940.359	9.903	99.0	0.799	6318		1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276	173754.250	142569.578	10.175	101.7	0.821	6905		1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279	173456.234	141625.406	10.125	101.2	0.816	6132		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.270	173018.406	135964.875	9.745	97.4	0.786	6015		1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.264	133364.344	106021.633	9.858	98.6	0.795	3759		1.21

Compound name: M8PFOA
Response Factor: 0.806444
RRF SD: 0.0265357, % Relative SD: 3.29046
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

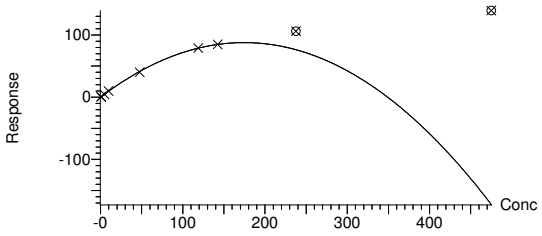
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.224	8555.825	452.090	0.526	110.8	1.112	0	23	0.89
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.233	9304.313	4416.274	4.787	100.8	0.999	0	348	0.92
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.239	8966.125	821.640	0.914	96.2	0.965	31	31	1.13
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.233	10630.751	10664.201	10.281	108.2	1.056	211	211	1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.233	11074.582	44364.066	45.875	96.6	0.843	0	1353	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.233	13171.327	104194.914	119.813	100.9	0.666	0	3358	1.52
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.236	13844.803	117460.359	142.862	100.3	0.595	0	2640	1.37
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.227	17462.502	184968.938			0.446	0	7713	1.77
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.221	22600.344	314635.813			0.293	0	9845	1.55

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.999327
Calibration curve: -0.0028804 * x^2 + 1.00537 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

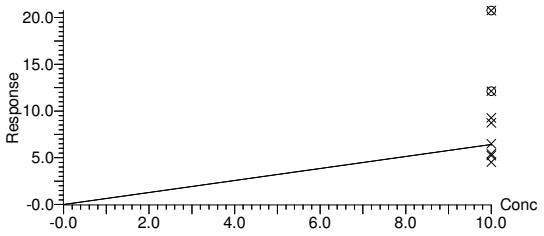
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.227	18917.949	8555.825	7.046	70.5	0.452	895		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.233	17192.434	9304.313	8.432	84.3	0.541	1369		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.239	17070.037	8966.125	8.183	81.8	0.525	715		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.236	20248.705	10630.751	8.180	81.8	0.525	534		0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.233	17033.469	11074.582	10.129	101.3	0.650	1032		1.01
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.230	15101.478	13171.327	13.589	135.9	0.872	372		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.236	14936.428	13844.803	14.441	144.4	0.927	318179		1.00
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.227	14405.832	17462.502	18.886	188.9	1.212	1659		0.97
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.221	10889.615	22600.344	32.334	323.3	2.075	1375		1.02

Compound name: M2-6:2FTS
Response Factor: 0.641854
RRF SD: 0.18606, % Relative SD: 28.9879
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

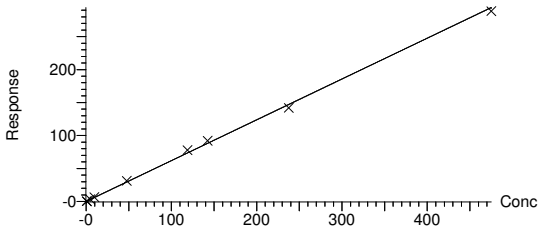
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.362	16856.475	471.794	0.452	95.2	0.589	19	38	1.28
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.371	16622.402	5200.686	5.053	106.4	0.659	120971	349	1.51
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.377	16554.051	865.866	0.845	88.9	0.551	138	60	0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.371	18682.965	12087.997	10.450	110.0	0.681	1357	884	1.24
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.368	15504.794	48402.828	50.421	106.1	0.657	3757	1899	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.368	14243.069	110709.602	125.542	105.7	0.655	4187	5854	1.46
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.371	13637.239	125474.938	148.607	104.3	0.646	5300	6313	1.48
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.365	13388.882	189922.125	229.108	96.5	0.597	3832	7678	1.36
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.361	10308.399	297704.281	466.447	98.2	0.608	14159	6344	1.76

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.998613
Calibration curve: 0.619144 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

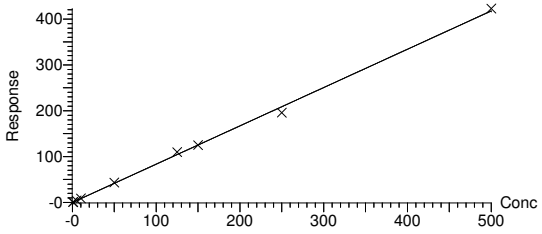
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	171128.688	7933.679	0.555	111.0	0.927	284	81	1.23
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	171602.031	70813.508	4.941	98.8	0.825	1653	1161	1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	167714.328	13737.722	0.981	98.1	0.819	374	95	1.26
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	184309.953	167052.578	10.852	108.5	0.906	4220	2437	1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	152874.109	664298.500	52.028	104.1	0.869	15014	7137	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	143381.344	1576930.625	131.681	105.3	0.880	28762	16858	1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	138425.859	1733328.500	149.923	99.9	0.835	49069	19472	1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	134959.625	2641555.250	234.347	93.7	0.783	39229	28303	1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	103730.188	4385475.000	506.192	101.2	0.846	50587	27513	1.10

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998524
Calibration curve: 0.83521 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

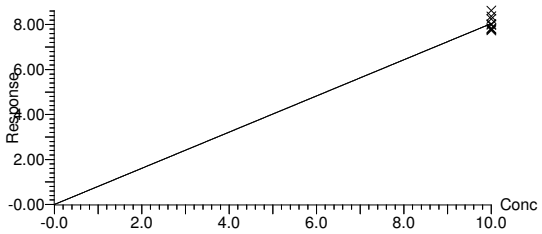
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	221190.594	171128.688	9.619	96.2	0.774	8363		1.13
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	205103.734	171602.031	10.402	104.0	0.837	5165		1.13
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	194474.000	167714.328	10.722	107.2	0.862	7214		1.14
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	229697.266	184309.953	9.976	99.8	0.802	6154		1.07
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	195261.016	152874.109	9.734	97.3	0.783	5195		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	173754.250	143381.344	10.259	102.6	0.825	4879		1.05
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	173456.234	138425.859	9.922	99.2	0.798	5808		1.16
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	173018.406	134959.625	9.698	97.0	0.780	7428		1.11
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.011	133364.344	103730.188	9.670	96.7	0.778	1809		1.14

Compound name: M9PFNA
Response Factor: 0.804347
RRF SD: 0.0307993, % Relative SD: 3.8291
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

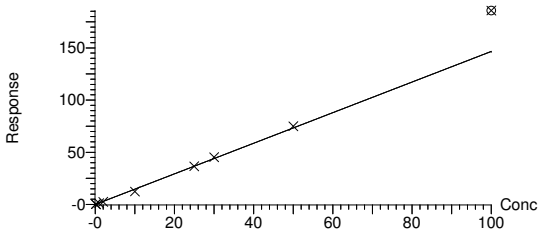
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.883	16856.475	254.838	0.103	103.1	1.512	7	3	0.75
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.887	16622.402	1941.296	0.797	79.7	1.168	54	15	0.64
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.817	16554.051	396.981	0.164	81.8	1.199	9	3	2.63
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.890	18682.965	4698.692	1.716	85.8	1.257	119	34	0.63
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.890	15504.794	19424.404	8.548	85.5	1.253	205	139	0.66
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.893	14243.069	51906.863	24.865	99.5	1.458	857	404	0.66
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.890	13637.239	61775.734	30.907	103.0	1.510	933	262	0.66
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.883	13388.882	100473.375	51.201	102.4	1.501	1579	398	0.66
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.883	10308.399	191476.891	126.734	126.7	1.857	1846	751	0.66

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.996912
Calibration curve: 1.46566 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

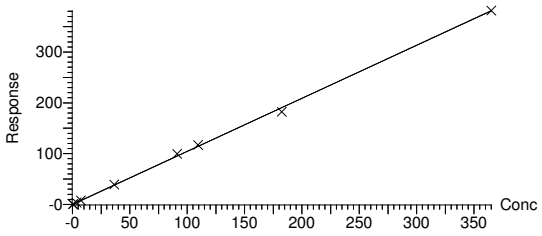
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	16856.475	629.729	0.358	98.0	1.024	23	16	1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	16622.402	6096.775	3.512	96.2	1.005	327	162	1.40
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	16554.051	1079.989	0.625	85.6	0.894	43	23	1.46
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	18682.965	14790.328	7.579	103.8	1.084	736	341	1.54
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	15504.794	60484.109	37.349	102.3	1.069	1249	1172	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	14243.069	141697.125	95.250	104.4	1.090	4411	2929	1.26
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	13637.239	159646.047	112.083	102.4	1.069	4564	1956	1.53
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	13388.882	244219.531	174.640	95.7	0.999	7104	2655	1.54
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	10308.399	393414.531	365.399	100.1	1.046	6978	4314	1.89

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.999197
Calibration curve: 1.04446 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration units in (ng/mL)

Initial Calibration Summary
Form 6

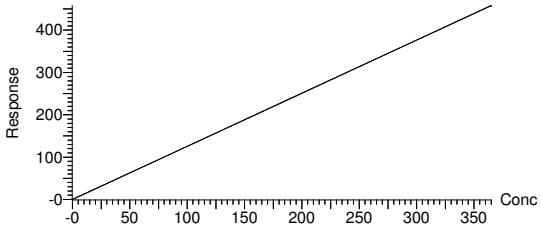
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		16856.475	884.567	0.461					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		16622.402	8038.071	4.309					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		16554.051	1476.970	0.788					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		18682.965	19489.020	9.295					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		15504.794	79908.513	45.897					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		14243.069	193603.988	120.115					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		13637.239	221421.781	142.990					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		13388.882	344692.906	225.841					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		10308.399	584891.422	492.133					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.25506 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

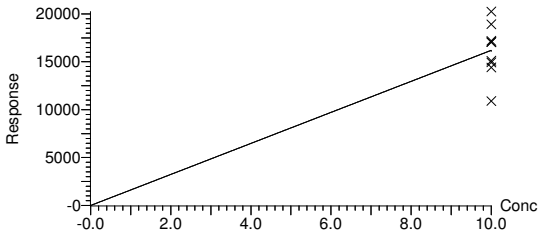
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...		18917.949	11.678	116.8	1891.795	1217		1.22
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...		17192.434	10.613	106.1	1719.243	1288		1.04
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...		17070.037	10.537	105.4	1707.004	914		1.00
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...		20248.705	12.500	125.0	2024.871	798		1.12
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...		17033.469	10.515	105.1	1703.347	729		1.14
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...		15101.478	9.322	93.2	1510.148	934		1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...		14936.428	9.220	92.2	1493.643	981		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...		14405.832	8.893	88.9	1440.583	1072		1.16
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...		10889.615	6.722	67.2	1088.961	609		1.11

Compound name: M4PFOS
Response Factor: 1619.95
RRF SD: 274.86, % Relative SD: 16.9671
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

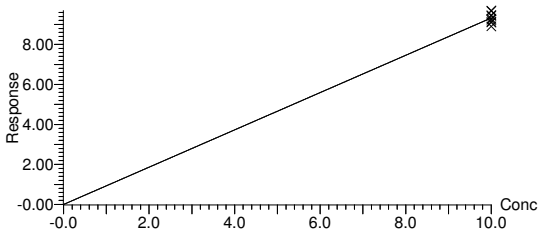
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	18917.949	16856.475	9.555	95.5	0.891	2010		1.09
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	17192.434	16622.402	10.368	103.7	0.967	511		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	17070.037	16554.051	10.399	104.0	0.970	599		1.08
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	20248.705	18682.965	9.894	98.9	0.923	404429		1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	17033.469	15504.794	9.761	97.6	0.910	639		1.00
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	15101.478	14243.069	10.114	101.1	0.943	657		1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	14936.428	13637.239	9.791	97.9	0.913	487		1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	14405.832	13388.882	9.966	99.7	0.929	322		1.04
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	10889.615	10308.399	10.151	101.5	0.947	600		1.18

Compound name: M8PFOS
Response Factor: 0.932532
RRF SD: 0.0264151, % Relative SD: 2.83262
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

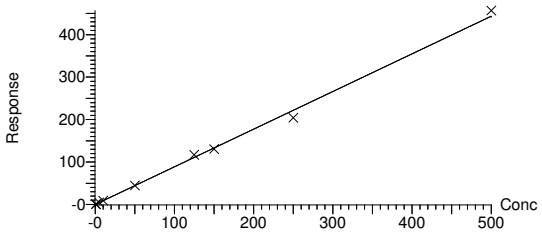
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	162441.688	7892.633	0.548	109.5	0.972	179	33755	1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	158640.125	68020.148	4.834	96.7	0.858	1504	435	1.19
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	159495.344	13007.036	0.919	91.9	0.816	280	101	1.30
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	169814.906	156416.063	10.384	103.8	0.921	4059	1484	1.12
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	133646.047	599365.500	50.558	101.1	0.897	13674	4433	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	118539.273	1386971.875	131.904	105.5	0.936	22955	3732	1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	116879.273	1526794.125	147.263	98.2	0.871	35345	15772	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	109986.391	2244684.750	230.074	92.0	0.816	51609	13752	1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	81578.555	3726875.250	515.016	103.0	0.914	75412	6840	1.08

Compound name: PFDA
Coefficient of Determination: R^2 = 0.997655
Calibration curve: 0.88705 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

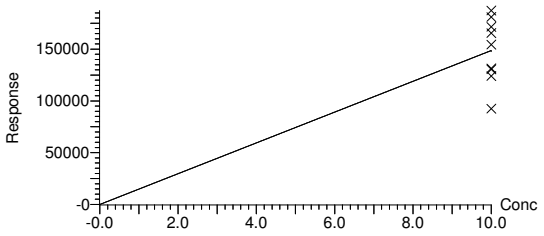
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...		181019.656	12.177	121.8	18101.966	38606		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...		171428.797	11.531	115.3	17142.880	32306		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...		165549.922	11.136	111.4	16554.992	46784		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...		187295.563	12.599	126.0	18729.556	31773		1.11
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...		154304.531	10.379	103.8	15430.453	32612		1.14
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...		131503.078	8.846	88.5	13150.308	38784		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...		130429.477	8.773	87.7	13042.948	18487		1.10
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...		124040.633	8.344	83.4	12404.063	25680		1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...		92395.469	6.215	62.2	9239.547	27498		1.15

Compound name: M2PFDA
Response Factor: 14866.3
RRF SD: 3117.28, % Relative SD: 20.9687
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

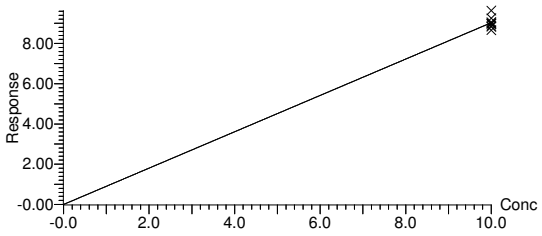
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	181019.656	162441.688	9.939	99.4	0.897	7946		1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	171428.797	158640.125	10.249	102.5	0.925	2029		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	165549.922	159495.344	10.670	106.7	0.963	5221		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	187295.563	169814.906	10.042	100.4	0.907	7093		1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	154304.531	133646.047	9.593	95.9	0.866	8224		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	131503.078	118539.273	9.984	99.8	0.901	3368		1.13
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	130429.477	116879.273	9.925	99.2	0.896	6255		1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	124040.633	109986.391	9.820	98.2	0.887	4702		1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	92395.469	81578.555	9.779	97.8	0.883	5042		1.17

Compound name: M6PFDA
Response Factor: 0.902904
RRF SD: 0.0280115, % Relative SD: 3.10238
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

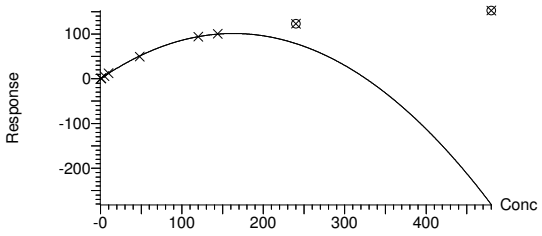
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	5715.214	280.646	0.396	82.5	1.023	7		1.60
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	5512.212	3187.078	4.726	98.5	1.205	80		1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	5633.688	742.775	1.066	111.0	1.373	64		1.20
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	6679.251	8318.924	10.362	107.9	1.297	206872		1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	6123.343	30456.758	46.775	97.4	1.036	2582		1.08
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	7431.457	69752.094	119.109	99.3	0.782	3921		1.16
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	7530.949	75595.711	148.256	103.0	0.697	2909		1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	9017.414	110753.914			0.512	4683		1.28
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	11419.368	174204.391			0.318	5903		1.21

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999261
Calibration curve: -0.00380653 * x^2 + 1.24141 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration units in (ng/mL)

Initial Calibration Summary
Form 6

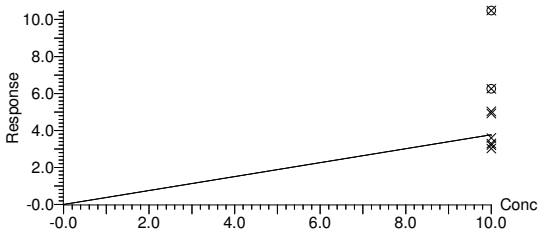
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	18917.949	5715.214	8.015	80.2	0.302	592		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	17192.434	5512.212	8.506	85.1	0.321	122997		1.15
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	17070.037	5633.688	8.756	87.6	0.330	484		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	20248.705	6679.251	8.752	87.5	0.330	140746		0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	17033.469	6123.343	9.538	95.4	0.359	639		1.08
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	15101.478	7431.457	13.056	130.6	0.492	243		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	14936.428	7530.949	13.377	133.8	0.504	793		1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	14405.832	9017.414	16.607	166.1	0.626	196807		1.22
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	10889.615	11419.368	27.822	278.2	1.049	1314		1.15

Compound name: M2-8:2FTS
Response Factor: 0.376916
RRF SD: 0.0846077, % Relative SD: 22.4474
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

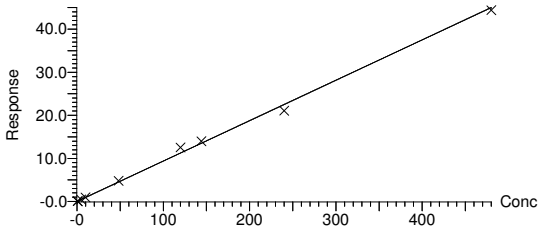
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	162441.688	752.573	0.494	102.9	0.097	69	31	1.22
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	158640.125	6727.926	4.521	94.2	0.088	1522	290	1.04
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	159495.344	1265.354	0.846	88.1	0.083	32959	42	1.11
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	169814.906	16060.723	10.083	105.0	0.099	1174	691	1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	133646.047	63927.734	50.996	106.2	0.100	3082	2647	1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	118539.273	148486.250	133.544	111.3	0.104	6310	2346	1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	116879.273	163624.188	149.248	103.6	0.097	4366	5150	1.23
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	109986.391	231667.047	224.556	93.6	0.088	7432	4568	1.16
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	81578.555	362364.563	473.553	98.7	0.093	11721	8644	1.23

Compound name: PFNS
Coefficient of Determination: R^2 = 0.997039
Calibration curve: 0.0937996 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

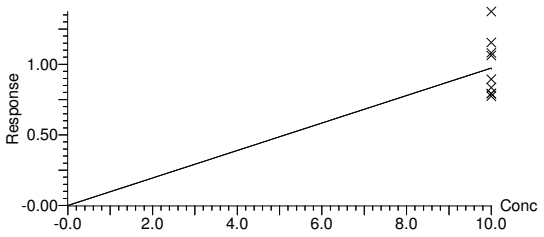
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.028	181019.656	13989.503	7.940	79.4	0.077	1113		1.24
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.028	171428.797	13576.893	8.136	81.4	0.079	489		1.11
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.032	165549.922	13826.559	8.580	85.8	0.084	731		1.19
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.028	187295.563	14853.333	8.147	81.5	0.079	1303		1.21
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.028	154304.531	13798.460	9.187	91.9	0.089	946		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.036	131503.078	13982.548	10.924	109.2	0.106	718		1.24
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.023	130429.477	14097.795	11.104	111.0	0.108	650		1.14
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.019	124040.633	14328.247	11.867	118.7	0.116	449		1.30
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.023	92395.469	12693.746	14.114	141.1	0.137	603		1.25

Compound name: d3-NMeFOSAA
Response Factor: 0.0973378
RRF SD: 0.0207382, % Relative SD: 21.3054
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

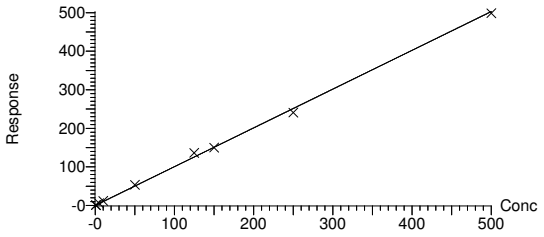
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.032	13989.503	762.188	0.542	108.3	1.090	53		1.18
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.032	13576.893	7648.101	5.600	112.0	1.127	496		1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.036	13826.559	1373.296	0.987	98.7	0.993	161		1.10
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.032	14853.333	17516.775	11.724	117.2	1.179	425733		1.21
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.032	13798.460	73921.914	53.260	106.5	1.071	2682		1.25
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.040	13982.548	190662.734	135.562	108.4	1.091	7382		1.23
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.032	14097.795	211306.938	149.012	99.3	0.999	6224		1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.023	14328.247	344836.406	239.265	95.7	0.963	8597		1.33
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.027	12693.746	632725.938	495.547	99.1	0.997	11269		1.26

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.998139
Calibration curve: 1.00587 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

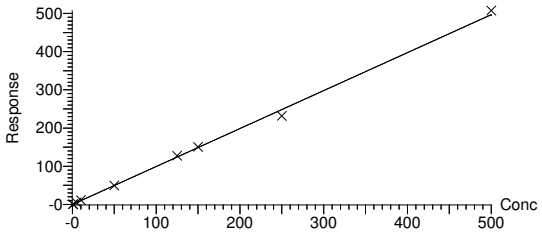
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.178	143625.672	7344.496	0.515	102.9	1.023	193	57	1.14
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.178	143549.813	68003.336	4.768	95.4	0.947	1289	1023	1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.182	137556.172	12858.137	0.941	94.1	0.935	276	103	1.07
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.178	147005.578	162012.266	11.092	110.9	1.102	3576	743	1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.178	113796.063	562136.500	49.719	99.4	0.988	12595	3704	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.182	95228.391	1213585.250	128.265	102.6	1.020	19012	5652	1.18
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.174	91884.633	1386252.250	151.846	101.2	1.006	30907	5143	1.22
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.169	88631.594	2056356.875	233.515	93.4	0.928	37616	7194	1.25
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.169	62314.133	3162767.250	510.840	102.2	1.015	48228	10626	1.33

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.998535
Calibration curve: 0.993564 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

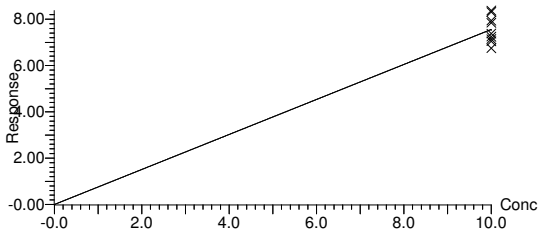
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.178	181019.656	143625.672	10.499	105.0	0.793	5244		1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.178	171428.797	143549.813	11.080	110.8	0.837	4967		1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.178	165549.922	137556.172	10.995	109.9	0.831	6464		1.15
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.178	187295.563	147005.578	10.386	103.9	0.785	9344		1.11
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.178	154304.531	113796.063	9.758	97.6	0.737	4482		1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.182	131503.078	95228.391	9.582	95.8	0.724	5893		1.19
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.174	130429.477	91884.633	9.322	93.2	0.704	3372		1.19
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.165	124040.633	88631.594	9.455	94.5	0.715	3914		1.23
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.169	92395.469	62314.133	8.924	89.2	0.674	3482		1.30

Compound name: M7-PFUDA
Response Factor: 0.75574
RRF SD: 0.0579349, % Relative SD: 7.66599
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

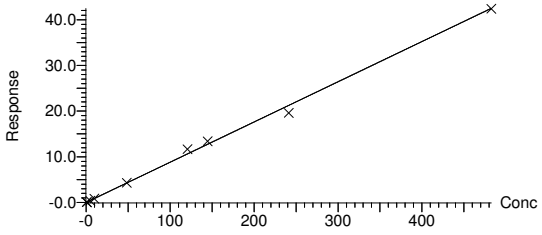
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.187	143625.672	549.048	0.434	90.0	0.079	158	31	0.94
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.187	143549.813	5114.781	4.046	83.9	0.074	131435	298	1.02
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.191	137556.172	1076.856	0.889	92.1	0.081	4	70	1.03
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.187	147005.578	12601.688	9.735	100.9	0.089	1347	905	1.19
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.187	113796.063	49143.730	49.043	101.6	0.090	3040	2245	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.196	95228.391	111195.352	132.604	109.9	0.097	6821	3354	1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.187	91884.633	123134.703	152.185	105.1	0.093	5291	6563	1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.183	88631.594	173826.641	222.722	92.3	0.081	5254	6095	0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.183	62314.133	264286.031	481.640	99.8	0.088	7828	8495	1.19

Compound name: PFDS
Coefficient of Determination: R^2 = 0.996958
Calibration curve: 0.0880573 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

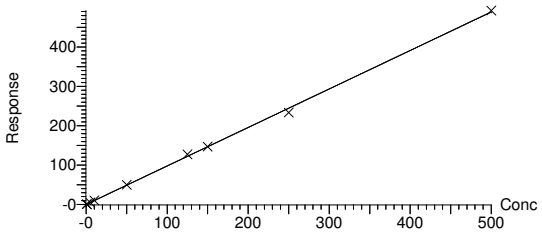
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.129	52703.457	2291.652	0.445	88.9	0.870	317		1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.129	50998.457	24846.027	4.981	99.6	0.974	1689		1.18
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.133	50716.313	4420.738	0.891	89.1	0.872	101970		1.22
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.129	57332.328	59088.738	10.537	105.4	1.031	2148		1.17
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.129	47261.039	236447.234	51.148	102.3	1.001	7312		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.137	45081.531	575296.938	130.463	104.4	1.021	10141		1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.129	43429.750	639452.750	150.528	100.4	0.982	13780		1.12
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.125	43343.066	1012420.125	238.801	95.5	0.934	12800		1.06
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.125	33868.230	1668692.125	503.708	100.7	0.985	18255		1.09

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999211
Calibration curve: 0.978149 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

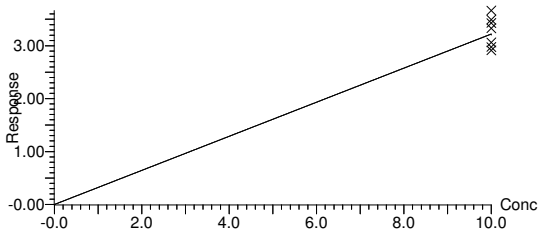
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.129	181019.656	52703.457	9.038	90.4	0.291	2572		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.129	171428.797	50998.457	9.235	92.4	0.297	2665		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.134	165549.922	50716.313	9.510	95.1	0.306	2399		1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.129	187295.563	57332.328	9.503	95.0	0.306	1914		1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.129	154304.531	47261.039	9.508	95.1	0.306	2179		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.138	131503.078	45081.531	10.642	106.4	0.343	2346		1.04
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.129	130429.477	43429.750	10.337	103.4	0.333	1800		0.99
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.121	124040.633	43343.066	10.847	108.5	0.349	2088		1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.125	92395.469	33868.230	11.379	113.8	0.367	1383		1.10

Compound name: M8FOSA
Response Factor: 0.322128
RRF SD: 0.0264298, % Relative SD: 8.20476
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

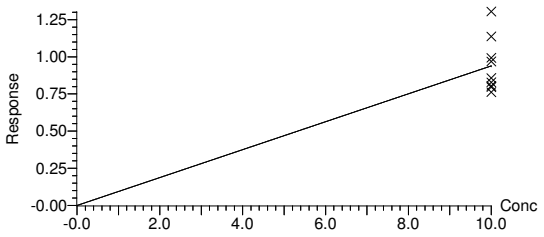
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.316	181019.656	13789.707	8.113	81.1	0.076	889		1.43
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.316	171428.797	13787.896	8.566	85.7	0.080	745		1.31
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.320	165549.922	14185.497	9.126	91.3	0.086	913		1.29
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.320	187295.563	15512.159	8.821	88.2	0.083	606		1.14
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.320	154304.531	12270.531	8.469	84.7	0.080	882		1.30
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.325	131503.078	12740.251	10.318	103.2	0.097	600		1.19
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.316	130429.477	12957.949	10.581	105.8	0.099	688		1.28
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.307	124040.633	14106.154	12.112	121.1	0.114	834		1.36
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.312	92395.469	12053.730	13.894	138.9	0.130	563		1.46

Compound name: d5-NEtFOSAA
Response Factor: 0.0938942
RRF SD: 0.018236, % Relative SD: 19.4219
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All Concentration Units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

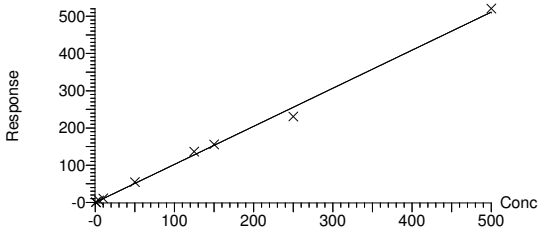
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.329	13789.707	827.817	0.587	117.4	1.201	41	6	0.95
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.325	13787.896	6748.016	4.787	95.7	0.979	320	209	1.02
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.329	14185.497	1328.507	0.916	91.6	0.937	18	28	1.43
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.329	15512.159	16510.947	10.410	104.1	1.064	469	356	1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.329	12270.531	67598.094	53.881	107.8	1.102	2448	1286	1.15
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.333	12740.251	173720.813	133.364	106.7	1.091	4618	2041	1.27
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.324	12957.949	201848.125	152.354	101.6	1.038	4039	3082	1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.320	14106.154	325758.781	225.867	90.3	0.924	10019	4384	1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.320	12053.730	627706.813	509.333	101.9	1.042	17854	2759	1.29

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.996775
Calibration curve: 1.02243 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

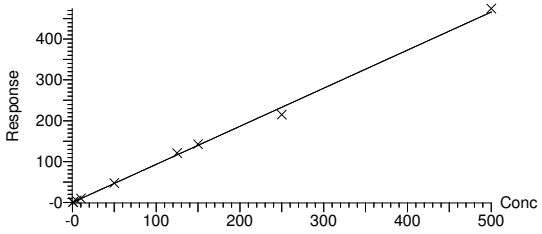
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.642	144859.297	7111.092	0.526	105.3	0.982	142	38	1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.642	137819.672	66948.320	5.209	104.2	0.972	1713	241	1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.647	135830.859	13223.981	1.044	104.4	0.974	304	22217	1.07
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.642	151419.391	154815.000	10.964	109.6	1.022	4511	881	1.01
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.642	125342.477	596211.000	51.010	102.0	0.951	14381	1688	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.652	116747.492	1413034.625	129.795	103.8	0.968	21655	3891	1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.642	112300.797	1604988.250	153.265	102.2	0.953	33223	3855	1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.637	115193.828	2476876.250	230.584	92.2	0.860	16628	6046	1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.637	84930.875	4031957.750	509.101	101.8	0.949	41241	5675	1.22

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998076
Calibration curve: 0.932494 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All Concentration units in (ng/mL)

Initial Calibration Summary
Form 6

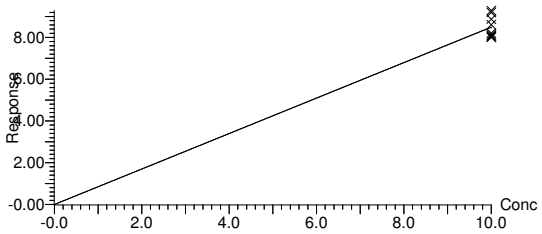
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.642	181019.656	144859.297	9.424	94.2	0.800	5096		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.642	171428.797	137819.672	9.468	94.7	0.804	4741		1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.647	165549.922	135830.859	9.663	96.6	0.820	3583		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.642	187295.563	151419.391	9.521	95.2	0.808	6084		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.647	154304.531	125342.477	9.566	95.7	0.812	3791		1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.652	131503.078	116747.492	10.455	104.6	0.888	4523		1.07
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.642	130429.477	112300.797	10.140	101.4	0.861	4400		1.04
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.637	124040.633	115193.828	10.937	109.4	0.929	3600		1.03
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.637	92395.469	84930.875	10.825	108.3	0.919	2609		1.11

Compound name: MPFDOA
Response Factor: 0.849124
RRF SD: 0.051403, % Relative SD: 6.05365
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

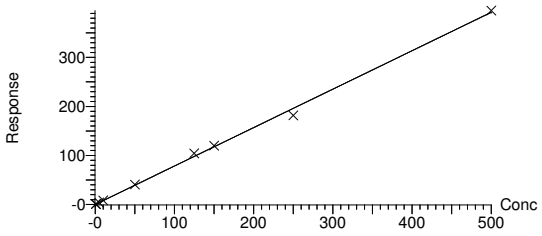
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.0...	144859.297	6038.270	0.532	106.3	0.834	405	74	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.0...	137819.672	55146.750	5.103	102.1	0.800	3623	699	1.19
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.0...	135830.859	10279.238	0.965	96.5	0.757	1018	129	1.20
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.0...	151419.391	129208.297	10.882	108.8	0.853	8235	2178	1.17
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.0...	125342.477	511294.594	52.020	104.0	0.816	33757	5223	1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.0...	116747.492	1219444.000	133.202	106.6	0.836	51202	13133	1.25
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.0...	112300.797	1344929.250	152.726	101.8	0.798	41056	13069	1.14
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.0...	115193.828	2090999.375	231.484	92.6	0.726	92637	5332	1.20
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.0...	84930.875	3360520.750	504.588	100.9	0.791	115770	37282	1.28

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.997973
Calibration curve: 0.784159 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

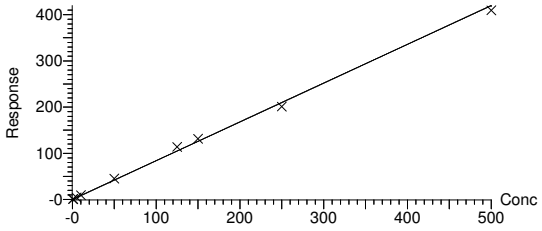
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.3...	106817.984	5067.272	0.565	113.0	0.949	767	262	1.12
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.3...	105628.445	45242.324	5.101	102.0	0.857	5128	1913	1.14
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.3...	101765.023	8672.169	1.015	101.5	0.852	834	368	1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.3...	115608.117	106578.086	10.980	109.8	0.922	13791	4497	1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.3...	92122.031	417635.250	53.993	108.0	0.907	54684	19404	1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.3...	84396.242	962467.938	135.822	108.7	0.912	92214	7568	1.05
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.3...	83530.195	1099095.750	156.711	104.5	0.877	116154	23264	1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.3...	81056.078	1629228.125	239.389	95.8	0.804	90420	31315	1.20
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.3...	63714.332	2610246.000	487.924	97.6	0.819	152466	51686	1.11

Compound name: PFTA
Coefficient of Determination: R^2 = 0.997747
Calibration curve: 0.839639 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

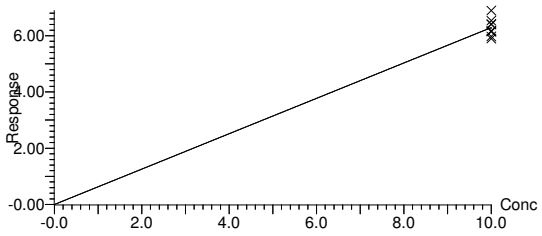
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.3...	181019.656	106817.984	9.382	93.8	0.590	32098		1.13
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.3...	171428.797	105628.445	9.797	98.0	0.616	36393		1.15
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.3...	165549.922	101765.023	9.774	97.7	0.615	30655		1.05
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.3...	187295.563	115608.117	9.814	98.1	0.617	35151		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.3...	154304.531	92122.031	9.492	94.9	0.597	17384		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.3...	131503.078	84396.242	10.204	102.0	0.642	19989		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.3...	130429.477	83530.195	10.183	101.8	0.640	16383		1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.3...	124040.633	81056.078	10.390	103.9	0.653	23498		1.11
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.3...	92395.469	63714.332	10.964	109.6	0.690	15396		1.12

Compound name: M2PFTEDA
Response Factor: 0.628942
RRF SD: 0.0308356, % Relative SD: 4.90277
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		221190.594							
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		205103.734							
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		194474.000							
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		229697.266							
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		195261.016							
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		173754.250							
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		173456.234							
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		173018.406							
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		133364.344							

Compound name: M3HFPO-DA
No Calibration
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

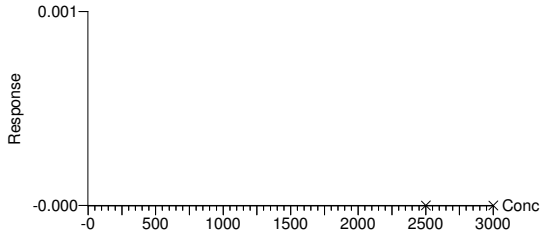
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35									
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14									
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53									
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32									
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03									
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.460		156112.078			0.000	11520		1.36
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.463		197766.563			0.000	10837		1.36
8	I11884	IA2-537STD250	01-Nov-18	18:41:43									
9	I11885	IA2-537STD500	01-Nov-18	18:58:17									

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.000000
Calibration curve:
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

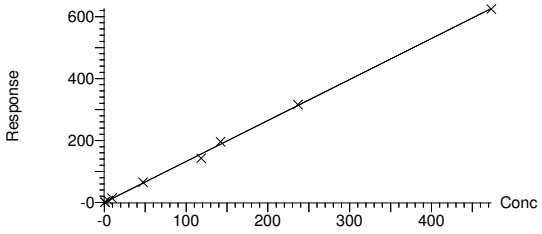
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.497	168819.391	11960.159	0.535	113.2	1.497	606	115	0.90
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.505	169481.359	107786.516	4.807	101.6	1.344	6438	6	0.99
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.512	166287.438	19855.088	0.902	95.4	1.262	1114	194	0.92
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.507	183051.500	256319.391	10.583	111.8	1.480	9065	1	0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.507	155940.359	1019769.000	49.425	104.5	1.382	30601	44	0.97
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.505	142569.578	2034127.750	107.834	91.2	1.206	41796	67	0.98
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.512	141625.406	2771866.750	147.922	104.2	1.379	49280	262	1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.500	135964.875	4296849.500	238.851	101.0	1.336	32813	121	0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.494	106021.633	6620006.000	471.918	99.8	1.320	90603	95	1.01

Compound name: ADONA
Coefficient of Determination: R^2 = 0.998575
Calibration curve: 1.32311 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	: **CDM Smith, Inc.**	**Lab Number**	: **L1844318**
Project Name	: **REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	: **85906**
Instrument ID	: **LCMS01**	**Ical Ref**	: **ICAL15200**
Calibration dates	: **11/01/18 16:45 11/01/18 18:58**		

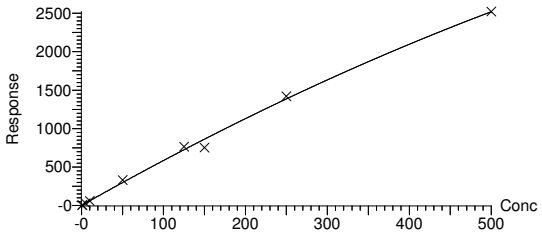
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.6...	11265.436	4120.283	0.605	120.9	7.315	125		0.72
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.6...	10569.568	29809.369	4.668	93.4	5.641	904		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.6...	10714.862	6935.549	1.070	107.0	6.473	206		1.13
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.6...	11484.085	69774.234	10.074	100.7	6.076	2730		1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.6...	9601.772	319184.719	55.980	112.0	6.648	12477		1.15
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.6...	7991.326	610155.625	131.993	105.6	6.108	19877		1.14
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.6...	9029.919	678343.563	129.765	86.5	5.008	15153		1.21
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.6...	8223.537	1169410.375	257.072	102.8	5.688	15998		1.45
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.6...	7424.929	1872983.625	500.590	100.1	5.045	29114		1.44

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.995979
Calibration curve: -0.00202226 * x^2 + 6.0515 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Calibration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

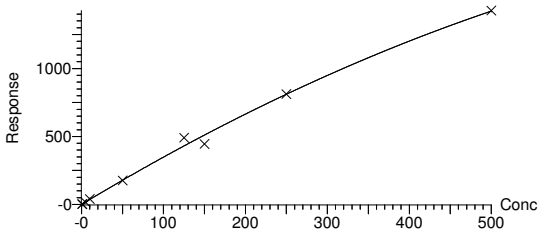
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.8...	11265.436	1699.304	0.414	82.8	3.017	89		0.99
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.8...	10569.568	16038.311	4.173	83.5	3.035	1008		1.09
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.8...	10714.862	2932.973	0.752	75.2	2.737	171		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.9...	11484.085	47477.063	11.405	114.1	4.134	2506		1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.9...	9601.772	170086.813	49.707	99.4	3.543	9157		1.20
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.8...	7991.326	392843.406	144.027	115.2	3.933	12310		1.59
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.8...	9029.919	401688.531	129.449	86.3	2.966	14048		1.62
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.9...	8223.537	667368.875	250.187	100.1	3.246	13829		1.51
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.9...	7424.929	1059308.125	502.051	100.4	2.853	19148		1.47

Compound name: PFODA
Coefficient of Determination: R^2 = 0.993924
Calibration curve: -0.00159606 * x^2 + 3.64303 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

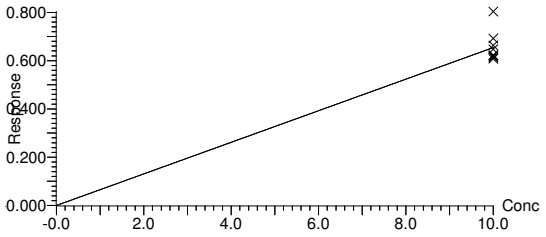
Client	**: CDM Smith, Inc.**	**Lab Number**	**: L1844318**
Project Name	**: REYNOLDS PLANT EMERGING CONTAM**	**Project Number**	**: 85906**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL15200**
Calibration dates	**: 11/01/18 16:45 11/01/18 18:58**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.6...	181019.656	11265.436	9.512	95.1	0.062	1389		0.99
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.6...	171428.797	10569.568	9.424	94.2	0.062	1638		1.18
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.6...	165549.922	10714.862	9.893	98.9	0.065	933		1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.6...	187295.563	11484.085	9.372	93.7	0.061	405		1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.6...	154304.531	9601.772	9.511	95.1	0.062	665		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.6...	131503.078	7991.326	9.289	92.9	0.061	585		1.32
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.6...	130429.477	9029.919	10.582	105.8	0.069	789		1.28
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.6...	124040.633	8223.537	10.134	101.3	0.066	529		1.35
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.6...	92395.469	7424.929	12.283	122.8	0.080	883		1.54

Compound name: M2PFHxDA
Response Factor: 0.0654236
RRF SD: 0.00624506, % Relative SD: 9.54559
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

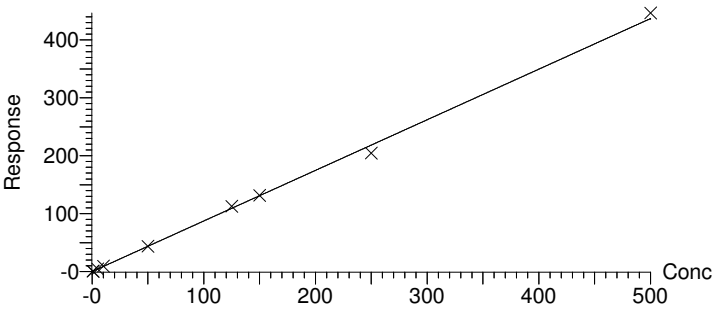
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.123	90611.000	3903.108	0.493	98.6	0.862	362		0.74
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.129	90581.969	37784.426	4.772	95.4	0.834	2507		0.72
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.129	88462.320	7099.602	0.918	91.8	0.803	796		0.75
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.129	98877.352	91096.602	10.540	105.4	0.921	6350		0.82
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.123	86777.555	379916.281	50.084	100.2	0.876	23186		0.77
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.129	85635.492	966697.063	129.140	103.3	0.903	43391		0.72
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.129	85050.922	1118317.375	150.421	100.3	0.877	58405		0.76
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.129	87715.078	1795465.250	234.167	93.7	0.819	68922		0.64
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.134	76700.359	3425834.750	510.966	102.2	0.893	71134		0.92

Compound name: PFBA
Coefficient of Determination: R^2 = 0.998664
Calibration curve: 0.874133 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



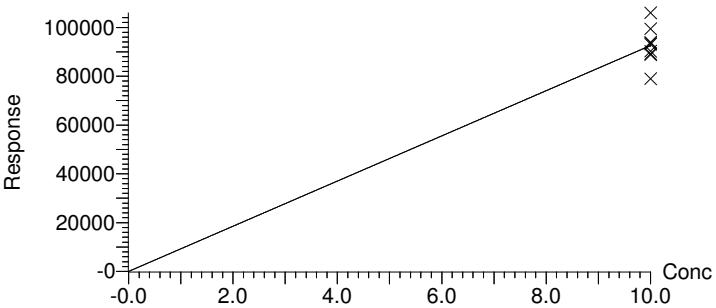
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.120		99374.234	10.736	107.4	9937.423	3769		0.86
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.125		93699.781	10.123	101.2	9369.978	2432		0.81
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.120		90222.984	9.747	97.5	9022.298	1198		0.84
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.120		105967.289	11.448	114.5	10596.729	1996		0.92
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.120		93852.016	10.139	101.4	9385.202	3409		0.81
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.120		88730.164	9.586	95.9	8873.016	1720		0.78
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.120		89166.836	9.633	96.3	8916.684	2576		0.82
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.125		93058.227	10.053	100.5	9305.823	3318		0.69
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.131		79014.406	8.536	85.4	7901.441	2412		0.63

Compound name: M3PFBA
Response Factor: 9256.51
RRF SD: 745.429, % Relative SD: 8.05302
Response type: External Std, Area
Curve type: RF



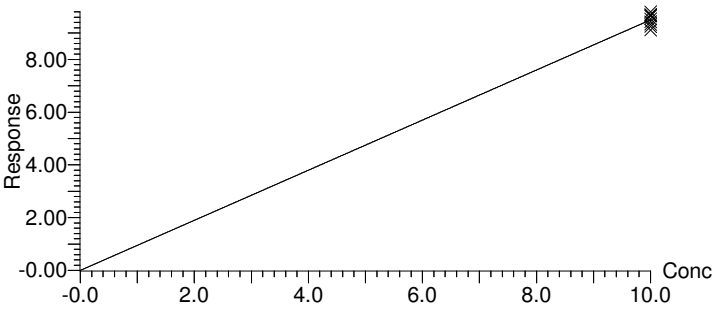
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	2.116	99374.234	90611.000	9.599	96.0	0.912	33694		0.87
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	2.122	93699.781	90581.969	10.177	101.8	0.967	28961		0.82
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	2.122	90222.984	88462.320	10.322	103.2	0.980	13724		0.82
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	2.122	105967.289	98877.352	9.823	98.2	0.933	17596		0.90
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	2.116	93852.016	86777.555	9.734	97.3	0.925	16526		0.84
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	2.122	88730.164	85635.492	10.160	101.6	0.965	12055		0.79
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	2.122	89166.836	85050.922	10.042	100.4	0.954	8626		0.79
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	2.122	93058.227	87715.078	9.923	99.2	0.943	8847		0.70
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	2.127	79014.406	76700.359	10.219	102.2	0.971	10912		0.63

Compound name: MPFBA
Response Factor: 0.949889
RRF SD: 0.0232499, % Relative SD: 2.44764
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



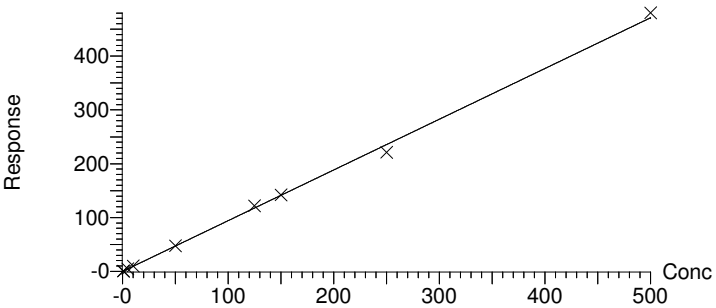
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.088	123581.453	5894.679	0.506	101.2	0.954	222		1.14
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.086	121476.508	54199.105	4.734	94.7	0.892	3473		1.07
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.088	117923.852	10492.281	0.944	94.4	0.890	606		1.15
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.091	132379.875	133380.484	10.691	106.9	1.008	8031		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.086	114460.516	542936.625	50.330	100.7	0.949	16454		1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.088	108966.594	1329902.500	129.497	103.6	0.976	71547		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.086	106080.625	1504891.625	150.523	100.3	0.946	57448		1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.081	107826.148	2383682.750	234.562	93.8	0.884	2429		1.01
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.084	90078.891	4327276.000	509.713	101.9	0.961	29719		0.80

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.998716
Calibration curve: 0.942467 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



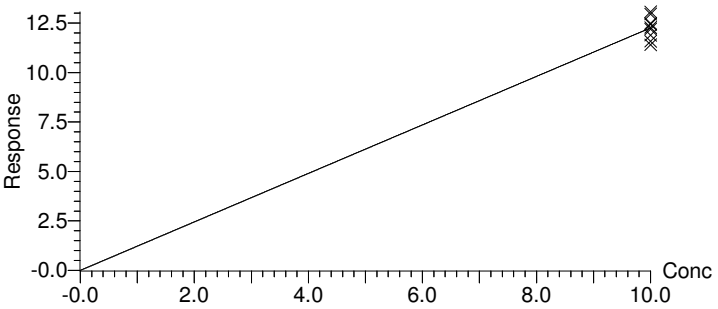
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.084	99374.234	123581.453	10.145	101.5	1.244	11712		1.08
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.086	93699.781	121476.508	10.576	105.8	1.296	11038		1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.086	90222.984	117923.852	10.662	106.6	1.307	15200		1.06
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.090	105967.289	132379.875	10.191	101.9	1.249	807		1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.083	93852.016	114460.516	9.949	99.5	1.220	10701		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.086	88730.164	108966.594	10.018	100.2	1.228	11636		1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.084	89166.836	106080.625	9.705	97.1	1.190	6856		1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.079	93058.227	107826.148	9.452	94.5	1.159	2630		1.01
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.084	79014.406	90078.891	9.300	93.0	1.140	237		0.73

Compound name: M5PFPEA
Response Factor: 1.22582
RRF SD: 0.0566373, % Relative SD: 4.62036
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



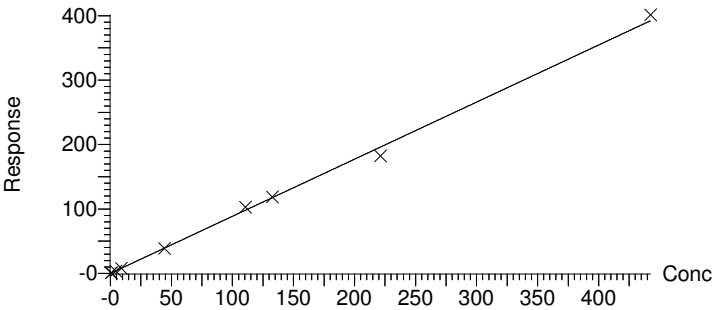
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.769	21862.414	736.608	0.380	85.9	0.761	160		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.774	21758.773	7737.196	4.011	90.6	0.804	1747		0.97
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.776	21034.404	1576.548	0.845	95.5	0.847	95		1.00
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.776	23904.336	19346.754	9.129	103.2	0.915	3790		0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.771	20483.826	79104.844	43.560	98.4	0.873	6401		0.95
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.774	18880.838	194064.359	115.936	104.8	0.929	925		0.99
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.771	18657.688	221473.516	133.893	100.9	0.894	794		0.96
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.766	18491.330	336793.438	205.442	92.9	0.823	19095		0.89
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.769	15241.547	611821.500	452.782	102.3	0.907	7088		0.69

Compound name: PFBS
Coefficient of Determination: R^2 = 0.998203
Calibration curve: 0.886557 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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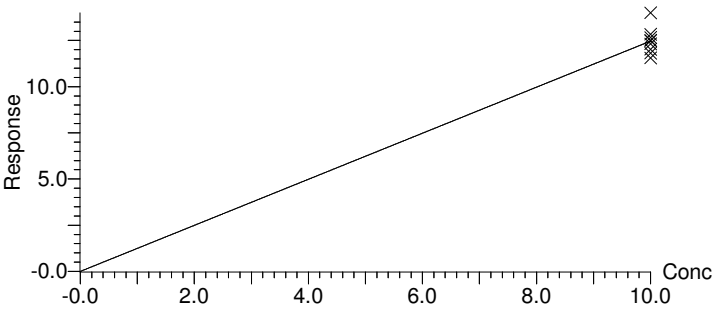
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	5.772	18917.949	21862.414	9.271	92.7	1.156	5211		1.00
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	5.772	17192.434	21758.773	10.153	101.5	1.266	4869		0.96
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	5.774	17070.037	21034.404	9.885	98.8	1.232	4957		0.95
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	5.776	20248.705	23904.336	9.470	94.7	1.181	3026		0.96
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	5.772	17033.469	20483.826	9.647	96.5	1.203	3441		0.97
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	5.772	15101.478	18880.838	10.030	100.3	1.250	3322		0.98
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	5.772	14936.428	18657.688	10.021	100.2	1.249	1282		0.97
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	5.764	14405.832	18491.330	10.297	103.0	1.284	399		0.91
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	5.767	10889.615	15241.547	11.228	112.3	1.400	2409		0.72

Compound name: M3PFBS
Response Factor: 1.24658
RRF SD: 0.0706701, % Relative SD: 5.66912
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



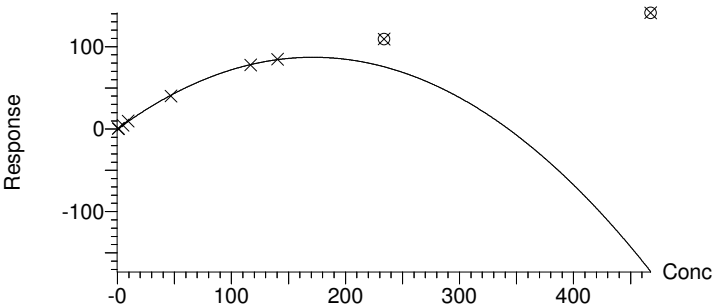
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	6.948	10801.237	522.123	0.476	101.9	1.034	56	37	1.09
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	6.955	11075.631	5221.964	4.704	100.6	1.009	509	221	0.95
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	6.959	10207.709	1002.538	0.969	103.7	1.050	100	65	1.03
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	6.959	12450.426	12319.450	10.031	107.3	1.058	1411	870	0.98
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	6.959	12644.036	50697.527	45.493	97.3	0.858	4234	2660	0.91
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	6.959	16525.570	128803.039	115.803	99.1	0.667	14012	3730	0.99
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	6.959	17148.203	145410.203	143.429	102.3	0.605	13700	8717	0.96
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	6.948	22131.100	241618.766			0.467	21038	11938	0.92
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	6.941	29667.691	418371.719			0.302	22787	12833	0.95

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.999518
Calibration curve: -0.00296271 * x^2 + 1.01615 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



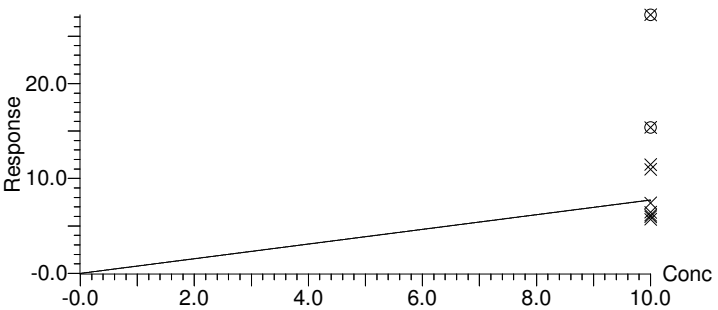
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	6.952	18917.949	10801.237	7.384	73.8	0.571	1051		0.97
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	6.956	17192.434	11075.631	8.331	83.3	0.644	673		0.90
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	6.960	17070.037	10207.709	7.734	77.3	0.598	994		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	6.956	20248.705	12450.426	7.952	79.5	0.615	1366		1.02
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	6.959	17033.469	12644.036	9.600	96.0	0.742	1196		0.90
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	6.964	15101.478	16525.570	14.152	141.5	1.094	1453		0.94
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	6.959	14936.428	17148.203	14.848	148.5	1.148	2717		0.92
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	6.945	14405.832	22131.100	19.868	198.7	1.536	1758		0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	6.941	10889.615	29667.691	35.233	352.3	2.724	2542		0.91

Compound name: M2-4:2FTS
Response Factor: 0.773245
RRF SD: 0.244234, % Relative SD: 31.5856
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



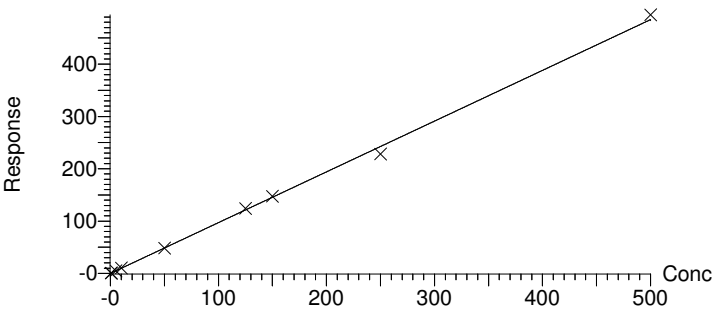
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.030	152927.344	7418.188	0.500	100.0	0.970	502		0.92
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.033	150146.438	69850.984	4.794	95.9	0.930	4844	205	0.97
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.039	147625.594	13055.866	0.911	91.1	0.884	809	49	0.97
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.036	159418.438	165646.688	10.707	107.1	1.039	10765	557	0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.036	137118.859	661612.000	49.719	99.4	0.965	35974	1392	0.98
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.039	128296.641	1595912.500	128.178	102.5	0.995	35889	4627	1.02
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.039	124050.375	1830315.500	152.037	101.4	0.984	63864	5587	1.03
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.027	123433.031	2818024.000	235.252	94.1	0.913	70478	7470	1.05
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.021	98424.992	4865696.500	509.401	101.9	0.989	83288	14642	1.04

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.998856
Calibration curve: 0.970464 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



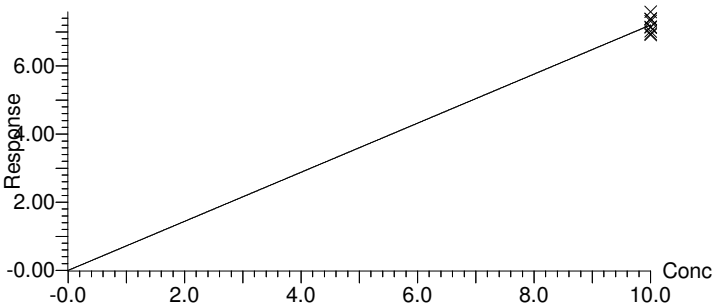
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.028	221190.594	152927.344	9.597	96.0	0.691	7317		1.00
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.033	205103.734	150146.438	10.161	101.6	0.732	13731		1.00
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.036	194474.000	147625.594	10.537	105.4	0.759	12595		1.02
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.036	229697.266	159418.438	9.634	96.3	0.694	14405		1.00
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.036	195261.016	137118.859	9.748	97.5	0.702	8260		0.99
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.040	173754.250	128296.641	10.249	102.5	0.738	10137		1.01
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.039	173456.234	124050.375	9.927	99.3	0.715	9567		1.01
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.024	173018.406	123433.031	9.903	99.0	0.713	9609		1.02
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.018	133364.344	98424.992	10.244	102.4	0.738	5282		1.07

Compound name: M5PFHxA
Response Factor: 0.72042
RRF SD: 0.0229413, % Relative SD: 3.18444
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



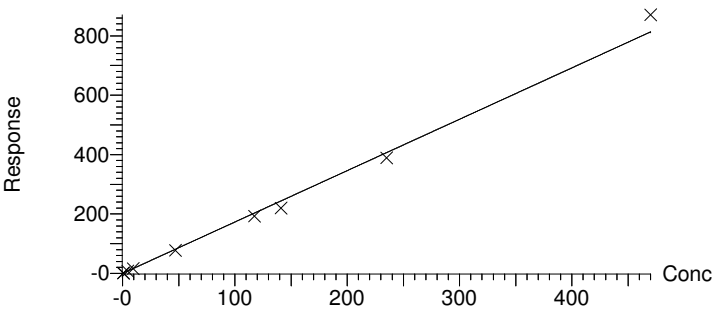
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	7.356	12603.866	922.360	0.423	90.0	1.557	295	62	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	7.361	12801.264	9181.299	4.145	88.2	1.526	1777	582	0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	7.365	12554.657	1618.341	0.745	79.3	1.371	251	90	1.06
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	7.367	13662.208	22322.963	9.444	100.5	1.738	2998	1264	1.00
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	7.365	11465.191	88457.609	44.594	94.9	1.642	10890	4737	1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.362	10899.231	210404.828	111.578	95.0	1.643	23395	11684	1.12
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.365	10734.342	236223.344	127.194	90.2	1.561	17292	12615	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	7.356	9339.244	363030.063	224.673	95.6	1.654	26183	14469	1.03
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	7.350	7064.417	615048.313	503.214	107.1	1.852	37545	17842	1.09

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.995365
Calibration curve: 1.73014 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



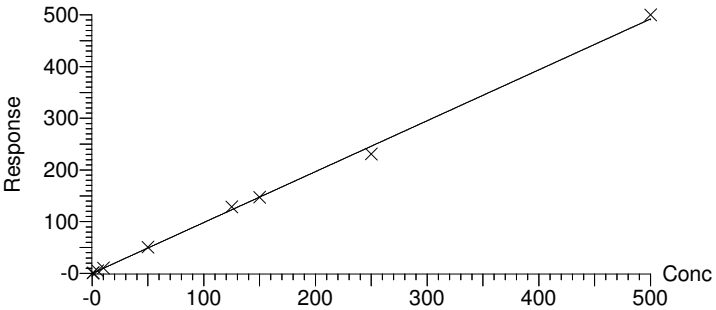
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.316	182619.453	9315.968	0.518	103.6	1.020	421	97	1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.325	180727.578	85063.578	4.781	95.6	0.941	4644	883	1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.332	172202.719	16017.420	0.945	94.5	0.930	802	154	1.02
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.329	193708.391	207868.688	10.900	109.0	1.073	11807	1797	1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.329	159822.125	811175.938	51.556	103.1	1.015	25817	8792	1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.325	150398.219	1935902.875	130.750	104.6	1.030	70451	21867	1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.332	146981.250	2161570.250	149.385	99.6	0.980	50371	16874	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.319	143584.172	3315793.000	234.574	93.8	0.924	52073	21822	1.12
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.313	110316.344	5517995.000	508.091	101.6	1.000	96753	37748	1.12

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998603
Calibration curve: 0.984465 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



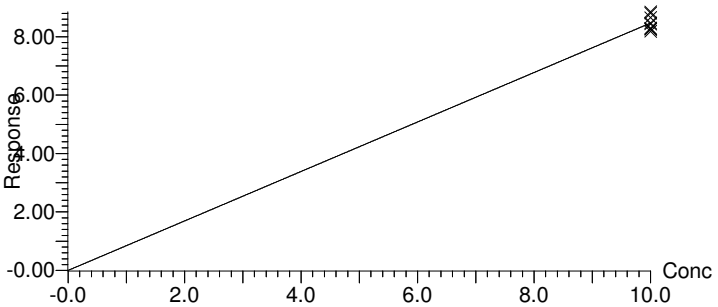
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.316	221190.594	182619.453	9.746	97.5	0.826	12919		1.08
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.322	205103.734	180727.578	10.402	104.0	0.881	15166		1.11
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.332	194474.000	172202.719	10.453	104.5	0.885	10541		1.10
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.326	229697.266	193708.391	9.955	99.6	0.843	12968		1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.326	195261.016	159822.125	9.662	96.6	0.819	10162		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.322	173754.250	150398.219	10.218	102.2	0.866	10409		1.15
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.332	173456.234	146981.250	10.003	100.0	0.847	6335		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.319	173018.406	143584.172	9.796	98.0	0.830	11080		1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.313	133364.344	110316.344	9.765	97.6	0.827	8010		1.13

Compound name: M4PFHpA
Response Factor: 0.84712
RRF SD: 0.0249019, % Relative SD: 2.93959
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



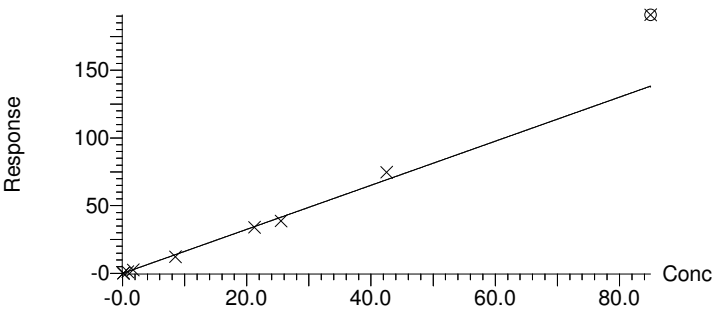
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.245	12603.866	145.931	0.071	83.7	1.362	4	2	0.37
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.255	12801.264	1457.679	0.700	82.3	1.340	49	17	0.80
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.264	12554.657	219.739	0.108	63.3	1.030	8	6	0.52
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.258	13662.208	3522.647	1.584	93.2	1.517	34	36	0.72
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.258	11465.191	14037.820	7.524	88.5	1.440	287	185	0.77
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.255	10899.231	37124.570	20.931	98.5	1.603	801	544	0.66
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.264	10734.342	41588.223	23.808	93.4	1.519	1527	432	0.68
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.252	9339.244	69649.523	45.829	107.8	1.755	1510	673	0.69
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.242	7064.417	134914.203	117.358	138.1	2.247	2341	979	0.82

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.994424
Calibration curve: 1.62731 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



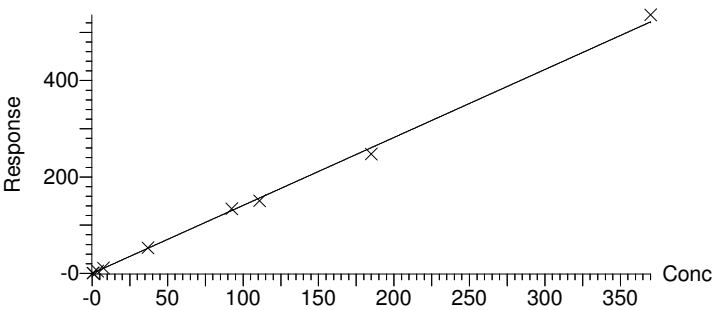
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.478	12603.866	688.256	0.387	104.7	1.476	26	17	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.491	12801.264	6308.765	3.495	94.5	1.332	373	214	1.03
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.497	12554.657	1165.684	0.658	89.0	1.255	72	47	0.98
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.491	13662.208	14999.265	7.786	105.2	1.484	221	354	0.90
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.491	11465.191	60652.902	37.517	101.4	1.430	2060	1732	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.488	10899.231	146329.750	95.213	102.9	1.451	4893	4446	1.07
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.497	10734.342	161734.609	106.853	96.3	1.357	9233	3355	1.12
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.481	9339.244	230959.172	175.382	94.8	1.337	7691	4460	1.12
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.475	7064.417	378945.750	380.418	102.8	1.450	9964	5503	1.10

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998639
Calibration curve: 1.41007 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



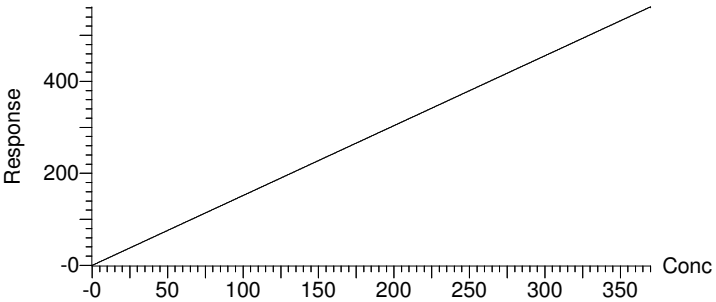
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		12603.866	834.187	0.458					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		12801.264	7766.444	4.195					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		12554.657	1385.423	0.766					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		13662.208	18521.912	9.370					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		11465.191	74690.722	45.041					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		10899.231	183454.320	116.145					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		10734.342	203322.832	130.661					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		9339.244	300608.695	221.210					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		7064.417	513859.953	497.776					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.51869 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



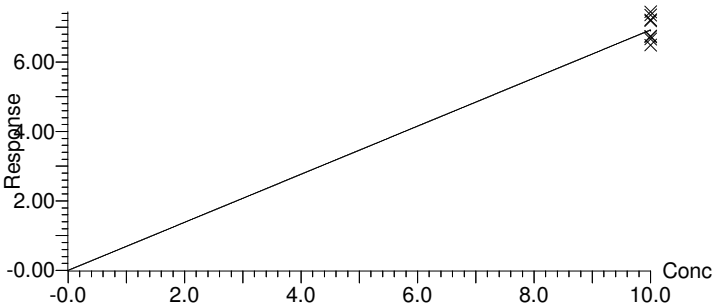
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.481	18917.949	12603.866	9.622	96.2	0.666	1344		0.93
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.491	17192.434	12801.264	10.754	107.5	0.745	279214		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.497	17070.037	12554.657	10.622	106.2	0.735	1169		0.98
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.491	20248.705	13662.208	9.745	97.4	0.675	1708		0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.491	17033.469	11465.191	9.721	97.2	0.673	862		1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.488	15101.478	10899.231	10.424	104.2	0.722	954		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.497	14936.428	10734.342	10.379	103.8	0.719	1078		1.02
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.484	14405.832	9339.244	9.363	93.6	0.648	489		1.06
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.475	10889.615	7064.417	9.369	93.7	0.649	44		1.05

Compound name: M3PFHxS
Response Factor: 0.692394
RRF SD: 0.0376689, % Relative SD: 5.44039
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



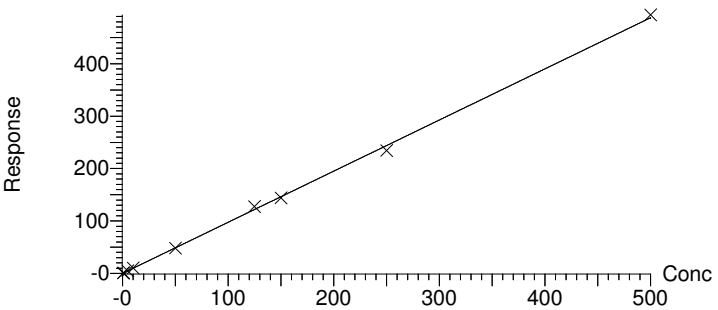
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		168819.391						1	
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		169481.359						1	
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		166287.438						1	
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		183051.500						1	
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		155940.359						2	
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		142569.578						4	
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		141625.406						4	
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		135964.875						4	
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		106021.633						8	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999203
Calibration curve: 0.975628 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



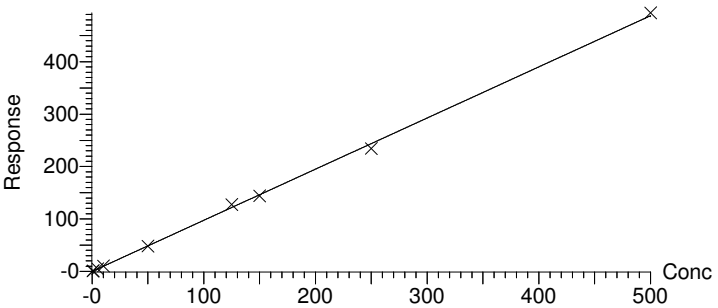
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.269	168819.391	9738.982	0.591	118.3	1.154	234	19	0.54
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.276	169481.359	80153.375	4.847	96.9	0.946	2185	197	2.72
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282	166287.438	16538.859	1.019	101.9	0.995	394	54	1.58
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276	183051.500	193919.234	10.858	108.6	1.059	5531	701	1.40
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276	155940.359	750653.500	49.340	98.7	0.963	13696	2684	1.50
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276	142569.578	1821190.625	130.931	104.7	1.022	21052	4421	1.91
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279	141625.406	2042821.000	147.844	98.6	0.962	34827	6895	1.53
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.269	135964.875	3188840.250	240.393	96.2	0.938	53451	5838	2.27
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.266	106021.633	5230587.000	505.675	101.1	0.987	32912	12112	2.19

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999203
Calibration curve: 0.975628 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



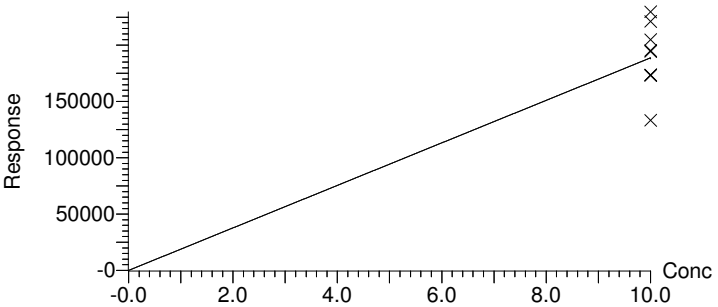
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.270		221190.594	11.715	117.1	22119.059	13268		1.32
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.273		205103.734	10.863	108.6	20510.373	10943		1.63
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282		194474.000	10.300	103.0	19447.400	6518		1.50
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276		229697.266	12.165	121.7	22969.727	10480		1.49
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276		195261.016	10.341	103.4	19526.102	8571		1.46
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276		173754.250	9.202	92.0	17375.425	5231		1.51
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279		173456.234	9.187	91.9	17345.623	5947		1.46
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.270		173018.406	9.163	91.6	17301.841	6620		1.49
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.263		133364.344	7.063	70.6	13336.434	5099		1.41

Compound name: M2PFOA
Coefficient of Determination: R^2 = 0.000000
Calibration curve: 18881.3 * x
Response type: External Std, Area
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



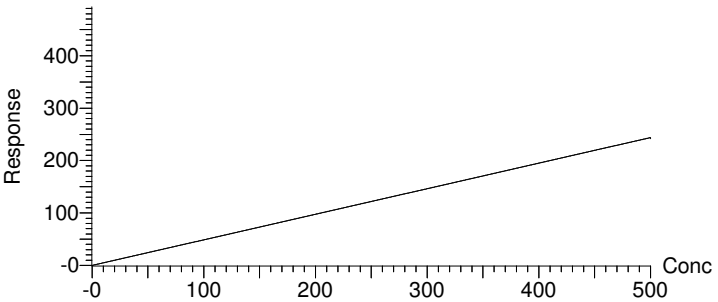
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		168819.391	9738.982	0.591					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		169481.359	80153.375	4.847					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		166287.438	16538.859	1.019					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		183051.500	193919.234	10.858					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		155940.359	750653.500	49.340					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		142569.578	1821190.625	130.931					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		141625.406	2042821.000	147.844					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		135964.875	3188840.250	240.393					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		106021.633	5230587.000	505.675					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.487814 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



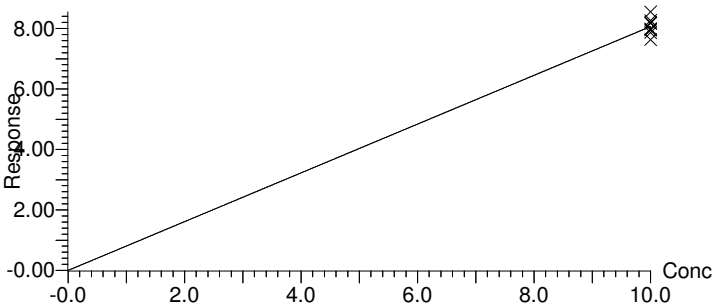
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.267	221190.594	168819.391	9.464	94.6	0.763	8129		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.273	205103.734	169481.359	10.246	102.5	0.826	15263		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.282	194474.000	166287.438	10.603	106.0	0.855	8796		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.276	229697.266	183051.500	9.882	98.8	0.797	8931		1.07
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.276	195261.016	155940.359	9.903	99.0	0.799	6318		1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.276	173754.250	142569.578	10.175	101.7	0.821	6905		1.09
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.279	173456.234	141625.406	10.125	101.2	0.816	6132		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.270	173018.406	135964.875	9.745	97.4	0.786	6015		1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.264	133364.344	106021.633	9.858	98.6	0.795	3759		1.21

Compound name: M8PFOA
Response Factor: 0.806444
RRF SD: 0.0265357, % Relative SD: 3.29046
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



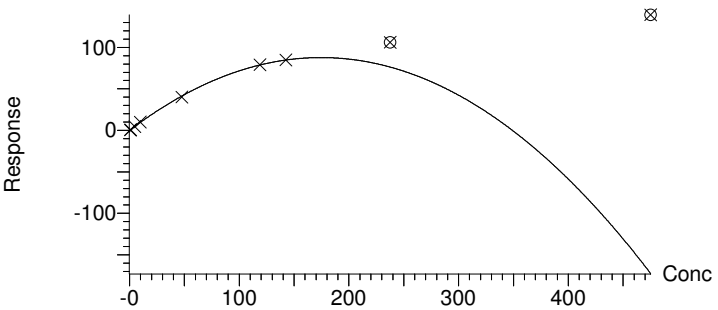
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.224	8555.825	452.090	0.526	110.8	1.112	0	23	0.89
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.233	9304.313	4416.274	4.787	100.8	0.999	0	348	0.92
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.239	8966.125	821.640	0.914	96.2	0.965	31	31	1.13
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.233	10630.751	10664.201	10.281	108.2	1.056	211	211	1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.233	11074.582	44364.066	45.875	96.6	0.843	0	1353	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.233	13171.327	104194.914	119.813	100.9	0.666	0	3358	1.52
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.236	13844.803	117460.359	142.862	100.3	0.595	0	2640	1.37
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.227	17462.502	184968.938			0.446	0	7713	1.77
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.221	22600.344	314635.813			0.293	0	9845	1.55

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.999327
Calibration curve: -0.0028804 * x^2 + 1.00537 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



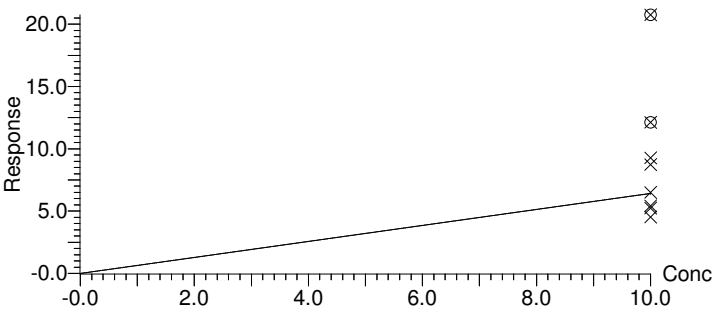
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.227	18917.949	8555.825	7.046	70.5	0.452	895		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.233	17192.434	9304.313	8.432	84.3	0.541	1369		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.239	17070.037	8966.125	8.183	81.8	0.525	715		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.236	20248.705	10630.751	8.180	81.8	0.525	534		0.99
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.233	17033.469	11074.582	10.129	101.3	0.650	1032		1.01
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.230	15101.478	13171.327	13.589	135.9	0.872	372		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.236	14936.428	13844.803	14.441	144.4	0.927	318179		1.00
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.227	14405.832	17462.502	18.886	188.9	1.212	1659		0.97
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.221	10889.615	22600.344	32.334	323.3	2.075	1375		1.02

Compound name: M2-6:2FTS
Response Factor: 0.641854
RRF SD: 0.18606, % Relative SD: 28.9879
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



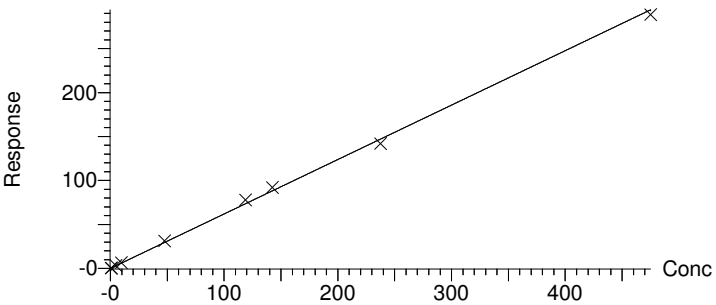
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.362	16856.475	471.794	0.452	95.2	0.589	19	38	1.28
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.371	16622.402	5200.686	5.053	106.4	0.659	120971	349	1.51
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.377	16554.051	865.866	0.845	88.9	0.551	138	60	0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.371	18682.965	12087.997	10.450	110.0	0.681	1357	884	1.24
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.368	15504.794	48402.828	50.421	106.1	0.657	3757	1899	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.368	14243.069	110709.602	125.542	105.7	0.655	4187	5854	1.46
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.371	13637.239	125474.938	148.607	104.3	0.646	5300	6313	1.48
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.365	13388.882	189922.125	229.108	96.5	0.597	3832	7678	1.36
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.361	10308.399	297704.281	466.447	98.2	0.608	14159	6344	1.76

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.998613
Calibration curve: 0.619144 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



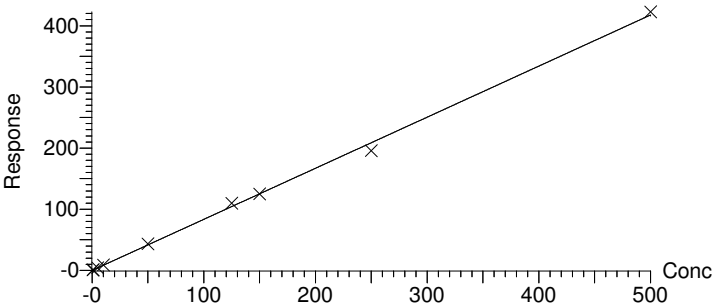
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	171128.688	7933.679	0.555	111.0	0.927	284	81	1.23
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	171602.031	70813.508	4.941	98.8	0.825	1653	1161	1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	167714.328	13737.722	0.981	98.1	0.819	374	95	1.26
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	184309.953	167052.578	10.852	108.5	0.906	4220	2437	1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	152874.109	664298.500	52.028	104.1	0.869	15014	7137	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	143381.344	1576930.625	131.681	105.3	0.880	28762	16858	1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	138425.859	1733328.500	149.923	99.9	0.835	49069	19472	1.07
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	134959.625	2641555.250	234.347	93.7	0.783	39229	28303	1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	103730.188	4385475.000	506.192	101.2	0.846	50587	27513	1.10

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998524
Calibration curve: 0.83521 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



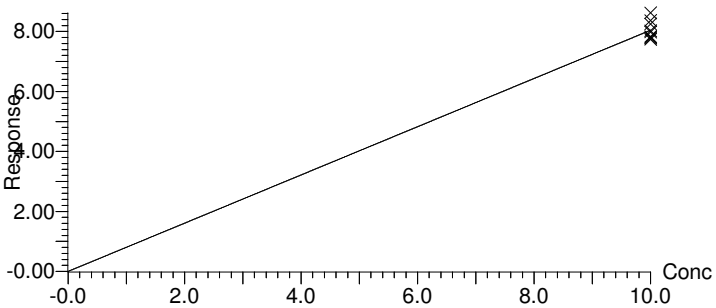
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	221190.594	171128.688	9.619	96.2	0.774	8363		1.13
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	205103.734	171602.031	10.402	104.0	0.837	5165		1.13
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	194474.000	167714.328	10.722	107.2	0.862	7214		1.14
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	229697.266	184309.953	9.976	99.8	0.802	6154		1.07
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	195261.016	152874.109	9.734	97.3	0.783	5195		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	173754.250	143381.344	10.259	102.6	0.825	4879		1.05
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	173456.234	138425.859	9.922	99.2	0.798	5808		1.16
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	173018.406	134959.625	9.698	97.0	0.780	7428		1.11
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.011	133364.344	103730.188	9.670	96.7	0.778	1809		1.14

Compound name: M9PFNA
Response Factor: 0.804347
RRF SD: 0.0307993, % Relative SD: 3.8291
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



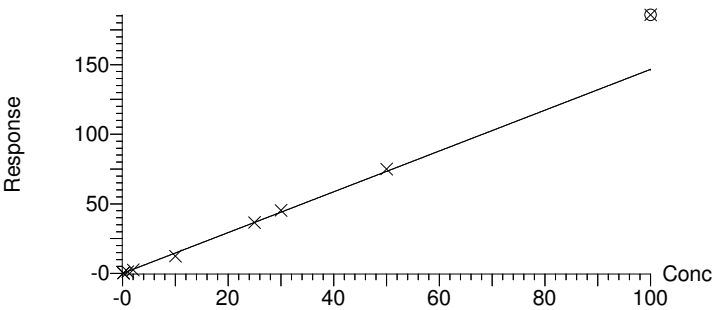
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	9.883	16856.475	254.838	0.103	103.1	1.512	7	3	0.75
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	9.887	16622.402	1941.296	0.797	79.7	1.168	54	15	0.64
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	9.817	16554.051	396.981	0.164	81.8	1.199	9	3	2.63
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	9.890	18682.965	4698.692	1.716	85.8	1.257	119	34	0.63
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	9.890	15504.794	19424.404	8.548	85.5	1.253	205	139	0.66
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	9.893	14243.069	51906.863	24.865	99.5	1.458	857	404	0.66
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	9.890	13637.239	61775.734	30.907	103.0	1.510	933	262	0.66
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	9.883	13388.882	100473.375	51.201	102.4	1.501	1579	398	0.66
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	9.883	10308.399	191476.891	126.734	126.7	1.857	1846	751	0.66

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.996912
Calibration curve: 1.46566 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



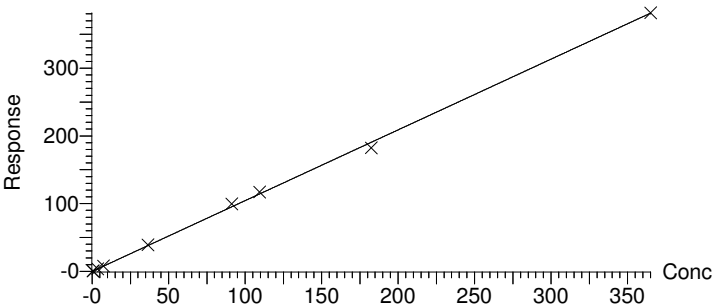
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	16856.475	629.729	0.358	98.0	1.024	23	16	1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	16622.402	6096.775	3.512	96.2	1.005	327	162	1.40
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	16554.051	1079.989	0.625	85.6	0.894	43	23	1.46
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	18682.965	14790.328	7.579	103.8	1.084	736	341	1.54
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	15504.794	60484.109	37.349	102.3	1.069	1249	1172	1.48
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	14243.069	141697.125	95.250	104.4	1.090	4411	2929	1.26
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	13637.239	159646.047	112.083	102.4	1.069	4564	1956	1.53
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	13388.882	244219.531	174.640	95.7	0.999	7104	2655	1.54
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	10308.399	393414.531	365.399	100.1	1.046	6978	4314	1.89

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.999197
Calibration curve: 1.04446 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



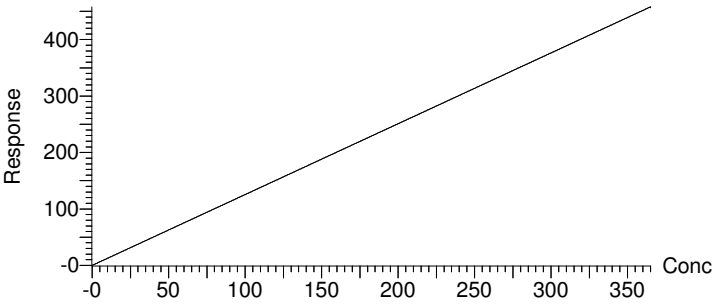
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		16856.475	884.567	0.461					
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		16622.402	8038.071	4.309					
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		16554.051	1476.970	0.788					
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		18682.965	19489.020	9.295					
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		15504.794	79908.513	45.897					
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		14243.069	193603.988	120.115					
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		13637.239	221421.781	142.990					
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		13388.882	344692.906	225.841					
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		10308.399	584891.422	492.133					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.25506 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



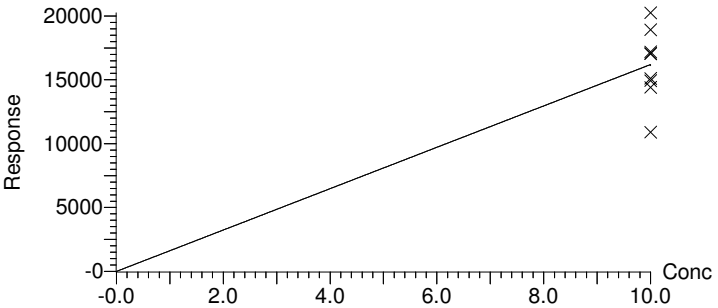
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...		18917.949	11.678	116.8	1891.795	1217		1.22
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...		17192.434	10.613	106.1	1719.243	1288		1.04
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...		17070.037	10.537	105.4	1707.004	914		1.00
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...		20248.705	12.500	125.0	2024.871	798		1.12
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...		17033.469	10.515	105.1	1703.347	729		1.14
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...		15101.478	9.322	93.2	1510.148	934		1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...		14936.428	9.220	92.2	1493.643	981		1.13
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...		14405.832	8.893	88.9	1440.583	1072		1.16
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...		10889.615	6.722	67.2	1088.961	609		1.11

Compound name: M4PFOS
Response Factor: 1619.95
RRF SD: 274.86, % Relative SD: 16.9671
Response type: External Std, Area
Curve type: RF



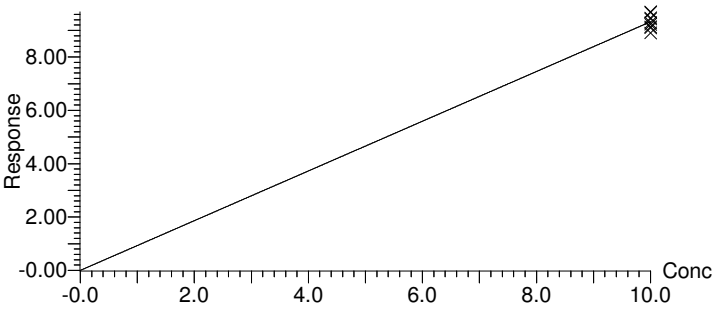
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.0...	18917.949	16856.475	9.555	95.5	0.891	2010		1.09
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.0...	17192.434	16622.402	10.368	103.7	0.967	511		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.0...	17070.037	16554.051	10.399	104.0	0.970	599		1.08
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.0...	20248.705	18682.965	9.894	98.9	0.923	404429		1.06
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.0...	17033.469	15504.794	9.761	97.6	0.910	639		1.00
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.0...	15101.478	14243.069	10.114	101.1	0.943	657		1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.0...	14936.428	13637.239	9.791	97.9	0.913	487		1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.0...	14405.832	13388.882	9.966	99.7	0.929	322		1.04
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.0...	10889.615	10308.399	10.151	101.5	0.947	600		1.18

Compound name: M8PFOS
Response Factor: 0.932532
RRF SD: 0.0264151, % Relative SD: 2.83262
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



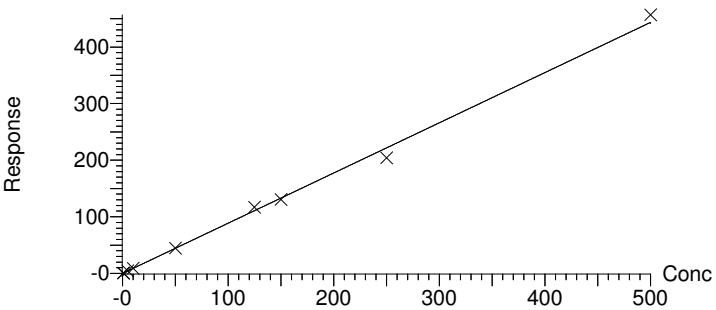
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	162441.688	7892.633	0.548	109.5	0.972	179	33755	1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	158640.125	68020.148	4.834	96.7	0.858	1504	435	1.19
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	159495.344	13007.036	0.919	91.9	0.816	280	101	1.30
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	169814.906	156416.063	10.384	103.8	0.921	4059	1484	1.12
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	133646.047	599365.500	50.558	101.1	0.897	13674	4433	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	118539.273	1386971.875	131.904	105.5	0.936	22955	3732	1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	116879.273	1526794.125	147.263	98.2	0.871	35345	15772	1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	109986.391	2244684.750	230.074	92.0	0.816	51609	13752	1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	81578.555	3726875.250	515.016	103.0	0.914	75412	6840	1.08

Compound name: PFDA
Coefficient of Determination: R^2 = 0.997655
Calibration curve: 0.88705 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



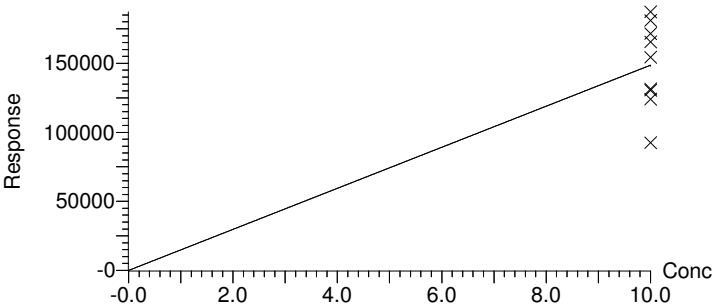
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...		181019.656	12.177	121.8	18101.966	38606		1.10
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...		171428.797	11.531	115.3	17142.880	32306		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...		165549.922	11.136	111.4	16554.992	46784		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...		187295.563	12.599	126.0	18729.556	31773		1.11
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...		154304.531	10.379	103.8	15430.453	32612		1.14
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...		131503.078	8.846	88.5	13150.308	38784		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...		130429.477	8.773	87.7	13042.948	18487		1.10
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...		124040.633	8.344	83.4	12404.063	25680		1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...		92395.469	6.215	62.2	9239.547	27498		1.15

Compound name: M2PFDA
Response Factor: 14866.3
RRF SD: 3117.28, % Relative SD: 20.9687
Response type: External Std, Area
Curve type: RF



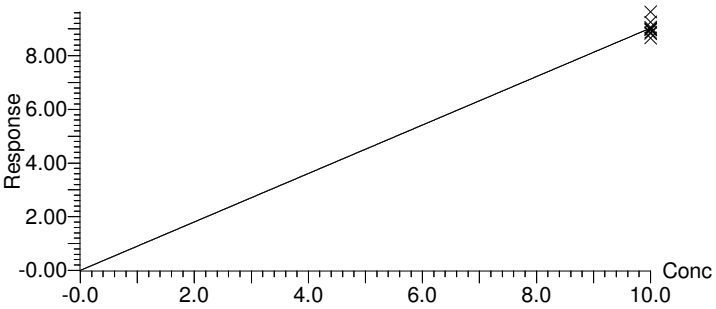
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	181019.656	162441.688	9.939	99.4	0.897	7946		1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	171428.797	158640.125	10.249	102.5	0.925	2029		0.98
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	165549.922	159495.344	10.670	106.7	0.963	5221		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	187295.563	169814.906	10.042	100.4	0.907	7093		1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	154304.531	133646.047	9.593	95.9	0.866	8224		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	131503.078	118539.273	9.984	99.8	0.901	3368		1.13
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	130429.477	116879.273	9.925	99.2	0.896	6255		1.11
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	124040.633	109986.391	9.820	98.2	0.887	4702		1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	92395.469	81578.555	9.779	97.8	0.883	5042		1.17

Compound name: M6PFDA
Response Factor: 0.902904
RRF SD: 0.0280115, % Relative SD: 3.10238
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



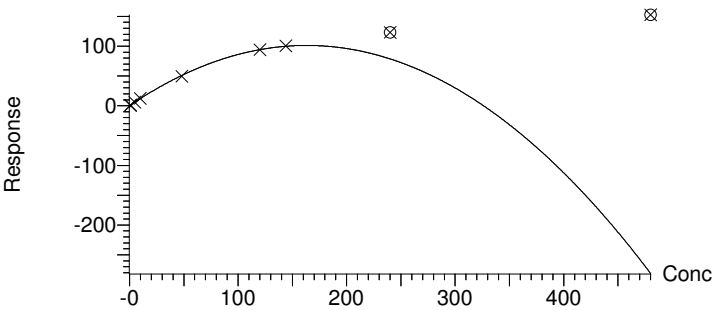
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	5715.214	280.646	0.396	82.5	1.023	7		1.60
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	5512.212	3187.078	4.726	98.5	1.205	80		1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	5633.688	742.775	1.066	111.(	1.373	64		1.20
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	6679.251	8318.924	10.362	107.9	1.297	206872		1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	6123.343	30456.758	46.775	97.4	1.036	2582		1.08
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	7431.457	69752.094	119.109	99.3	0.782	3921		1.16
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	7530.949	75595.711	148.256	103.0	0.697	2909		1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	9017.414	110753.914			0.512	4683		1.28
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	11419.368	174204.391			0.318	5903		1.21

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999261
Calibration curve: -0.00380653 * x^2 + 1.24141 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



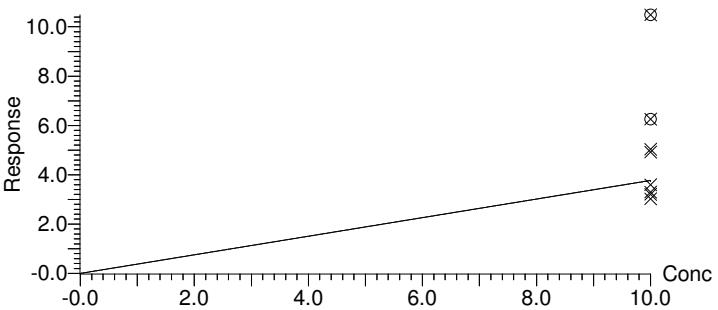
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	18917.949	5715.214	8.015	80.2	0.302	592		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	17192.434	5512.212	8.506	85.1	0.321	122997		1.15
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	17070.037	5633.688	8.756	87.6	0.330	484		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	20248.705	6679.251	8.752	87.5	0.330	140746		0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	17033.469	6123.343	9.538	95.4	0.359	639		1.08
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	15101.478	7431.457	13.056	130.6	0.492	243		1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	14936.428	7530.949	13.377	133.8	0.504	793		1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	14405.832	9017.414	16.607	166.1	0.626	196807		1.22
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	10889.615	11419.368	27.822	278.2	1.049	1314		1.15

Compound name: M2-8:2FTS
Response Factor: 0.376916
RRF SD: 0.0846077, % Relative SD: 22.4474
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



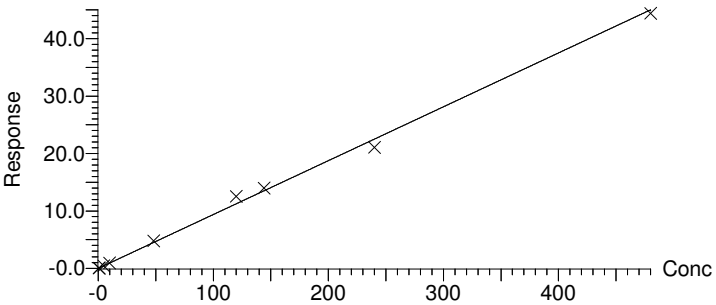
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	10.6...	162441.688	752.573	0.494	102.9	0.097	69	31	1.22
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	10.6...	158640.125	6727.926	4.521	94.2	0.088	1522	290	1.04
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	10.6...	159495.344	1265.354	0.846	88.1	0.083	32959	42	1.11
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	10.6...	169814.906	16060.723	10.083	105.0	0.099	1174	691	1.05
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	10.6...	133646.047	63927.734	50.996	106.2	0.100	3082	2647	1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	10.6...	118539.273	148486.250	133.544	111.3	0.104	6310	2346	1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	10.6...	116879.273	163624.188	149.248	103.6	0.097	4366	5150	1.23
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	10.6...	109986.391	231667.047	224.556	93.6	0.088	7432	4568	1.16
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	10.6...	81578.555	362364.563	473.553	98.7	0.093	11721	8644	1.23

Compound name: PFNS
Coefficient of Determination: R^2 = 0.997039
Calibration curve: 0.0937996 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



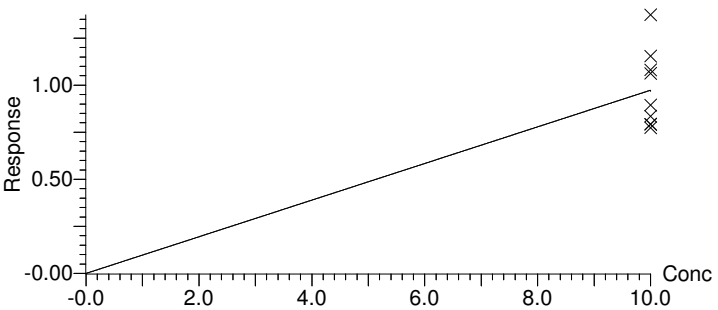
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.028	181019.656	13989.503	7.940	79.4	0.077	1113		1.24
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.028	171428.797	13576.893	8.136	81.4	0.079	489		1.11
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.032	165549.922	13826.559	8.580	85.8	0.084	731		1.19
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.028	187295.563	14853.333	8.147	81.5	0.079	1303		1.21
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.028	154304.531	13798.460	9.187	91.9	0.089	946		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.036	131503.078	13982.548	10.924	109.2	0.106	718		1.24
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.023	130429.477	14097.795	11.104	111.0	0.108	650		1.14
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.019	124040.633	14328.247	11.867	118.7	0.116	449		1.30
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.023	92395.469	12693.746	14.114	141.1	0.137	603		1.25

Compound name: d3-NMeFOSAA
Response Factor: 0.0973378
RRF SD: 0.0207382, % Relative SD: 21.3054
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



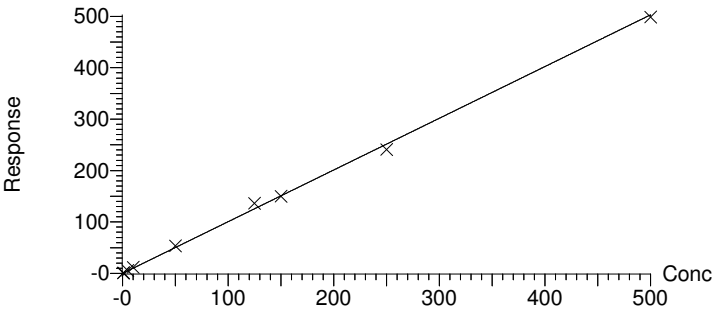
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.032	13989.503	762.188	0.542	108.3	1.090	53		1.18
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.032	13576.893	7648.101	5.600	112.0	1.127	496		1.16
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.036	13826.559	1373.296	0.987	98.7	0.993	161		1.10
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.032	14853.333	17516.775	11.724	117.2	1.179	425733		1.21
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.032	13798.460	73921.914	53.260	106.5	1.071	2682		1.25
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.040	13982.548	190662.734	135.562	108.4	1.091	7382		1.23
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.032	14097.795	211306.938	149.012	99.3	0.999	6224		1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.023	14328.247	344836.406	239.265	95.7	0.963	8597		1.33
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.027	12693.746	632725.938	495.547	99.1	0.997	11269		1.26

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.998139
Calibration curve: 1.00587 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



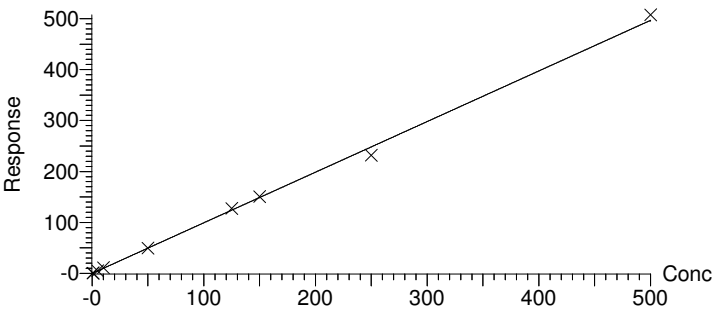
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.178	143625.672	7344.496	0.515	102.9	1.023	193	57	1.14
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.178	143549.813	68003.336	4.768	95.4	0.947	1289	1023	1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.182	137556.172	12858.137	0.941	94.1	0.935	276	103	1.07
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.178	147005.578	162012.266	11.092	110.9	1.102	3576	743	1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.178	113796.063	562136.500	49.719	99.4	0.988	12595	3704	1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.182	95228.391	1213585.250	128.265	102.6	1.020	19012	5652	1.18
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.174	91884.633	1386252.250	151.846	101.2	1.006	30907	5143	1.22
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.169	88631.594	2056356.875	233.515	93.4	0.928	37616	7194	1.25
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.169	62314.133	3162767.250	510.840	102.2	1.015	48228	10626	1.33

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.998535
Calibration curve: 0.993564 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



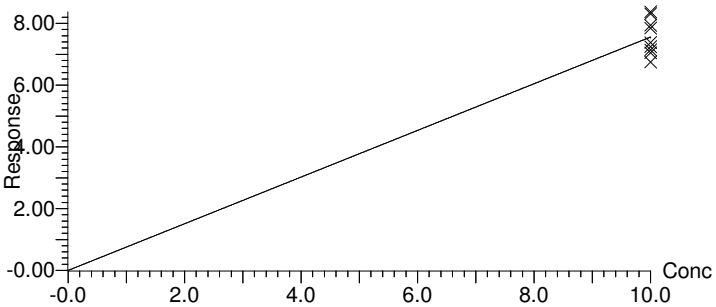
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.178	181019.656	143625.672	10.499	105.0	0.793	5244		1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.178	171428.797	143549.813	11.080	110.8	0.837	4967		1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.178	165549.922	137556.172	10.995	109.9	0.831	6464		1.15
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.178	187295.563	147005.578	10.386	103.9	0.785	9344		1.11
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.178	154304.531	113796.063	9.758	97.6	0.737	4482		1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.182	131503.078	95228.391	9.582	95.8	0.724	5893		1.19
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.174	130429.477	91884.633	9.322	93.2	0.704	3372		1.19
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.165	124040.633	88631.594	9.455	94.5	0.715	3914		1.23
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.169	92395.469	62314.133	8.924	89.2	0.674	3482		1.30

Compound name: M7-PFUDA
Response Factor: 0.75574
RRF SD: 0.0579349, % Relative SD: 7.66599
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



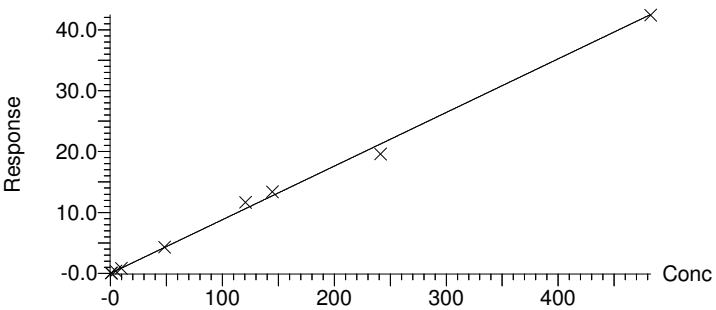
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.187	143625.672	549.048	0.434	90.0	0.079	158	31	0.94
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.187	143549.813	5114.781	4.046	83.9	0.074	131435	298	1.02
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.191	137556.172	1076.856	0.889	92.1	0.081	4	70	1.03
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.187	147005.578	12601.688	9.735	100.9	0.089	1347	905	1.19
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.187	113796.063	49143.730	49.043	101.6	0.090	3040	2245	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.196	95228.391	111195.352	132.604	109.9	0.097	6821	3354	1.11
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.187	91884.633	123134.703	152.185	105.1	0.093	5291	6563	1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.183	88631.594	173826.641	222.722	92.3	0.081	5254	6095	0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.183	62314.133	264286.031	481.640	99.8	0.088	7828	8495	1.19

Compound name: PFDS
Coefficient of Determination: R^2 = 0.996958
Calibration curve: 0.0880573 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



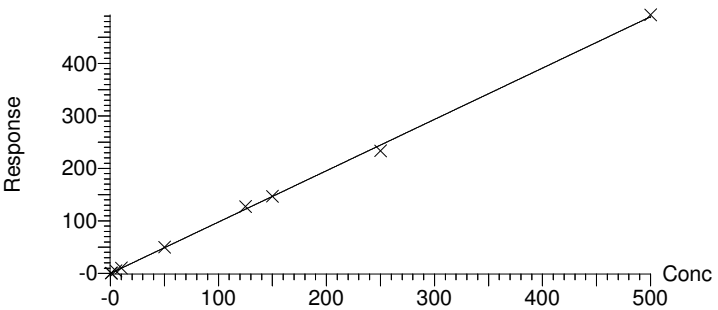
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.129	52703.457	2291.652	0.445	88.9	0.870	317		1.05
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.129	50998.457	24846.027	4.981	99.6	0.974	1689		1.18
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.133	50716.313	4420.738	0.891	89.1	0.872	101970		1.22
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.129	57332.328	59088.738	10.537	105.4	1.031	2148		1.17
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.129	47261.039	236447.234	51.148	102.3	1.001	7312		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.137	45081.531	575296.938	130.463	104.4	1.021	10141		1.10
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.129	43429.750	639452.750	150.528	100.4	0.982	13780		1.12
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.125	43343.066	1012420.125	238.801	95.5	0.934	12800		1.06
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.125	33868.230	1668692.125	503.708	100.7	0.985	18255		1.09

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999211
Calibration curve: 0.978149 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



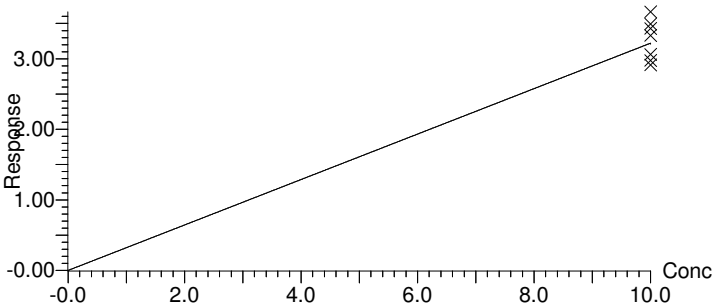
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.129	181019.656	52703.457	9.038	90.4	0.291	2572		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.129	171428.797	50998.457	9.235	92.4	0.297	2665		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.134	165549.922	50716.313	9.510	95.1	0.306	2399		1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.129	187295.563	57332.328	9.503	95.0	0.306	1914		1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.129	154304.531	47261.039	9.508	95.1	0.306	2179		1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.138	131503.078	45081.531	10.642	106.4	0.343	2346		1.04
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.129	130429.477	43429.750	10.337	103.4	0.333	1800		0.99
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.121	124040.633	43343.066	10.847	108.5	0.349	2088		1.14
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.125	92395.469	33868.230	11.379	113.8	0.367	1383		1.10

Compound name: M8FOSA
Response Factor: 0.322128
RRF SD: 0.0264298, % Relative SD: 8.20476
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



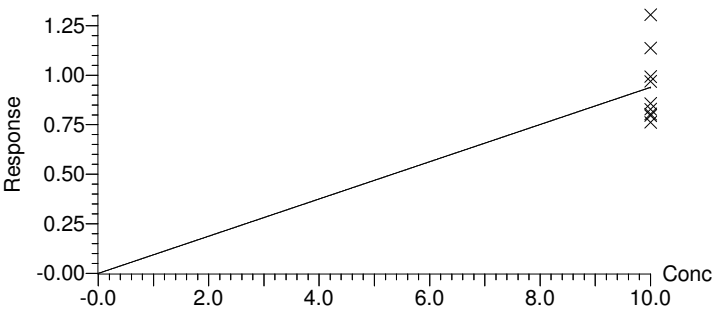
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.316	181019.656	13789.707	8.113	81.1	0.076	889		1.43
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.316	171428.797	13787.896	8.566	85.7	0.080	745		1.31
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.320	165549.922	14185.497	9.126	91.3	0.086	913		1.29
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.320	187295.563	15512.159	8.821	88.2	0.083	606		1.14
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.320	154304.531	12270.531	8.469	84.7	0.080	882		1.30
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.325	131503.078	12740.251	10.318	103.2	0.097	600		1.19
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.316	130429.477	12957.949	10.581	105.8	0.099	688		1.28
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.307	124040.633	14106.154	12.112	121.1	0.114	834		1.36
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.312	92395.469	12053.730	13.894	138.9	0.130	563		1.46

Compound name: d5-NEtFOSAA
Response Factor: 0.0938942
RRF SD: 0.018236, % Relative SD: 19.4219
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



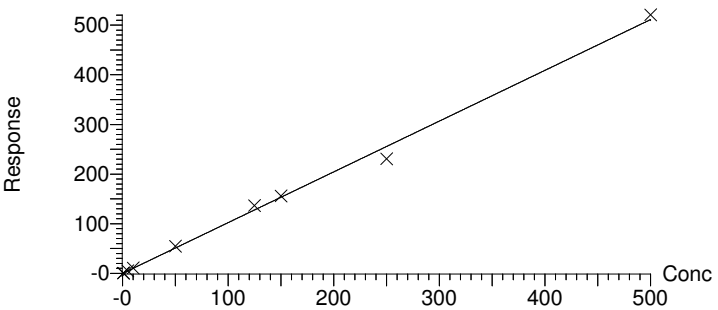
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.329	13789.707	827.817	0.587	117.4	1.201	41	6	0.95
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.325	13787.896	6748.016	4.787	95.7	0.979	320	209	1.02
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.329	14185.497	1328.507	0.916	91.6	0.937	18	28	1.43
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.329	15512.159	16510.947	10.410	104.1	1.064	469	356	1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.329	12270.531	67598.094	53.881	107.8	1.102	2448	1286	1.15
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.333	12740.251	173720.813	133.364	106.7	1.091	4618	2041	1.27
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.324	12957.949	201848.125	152.354	101.6	1.038	4039	3082	1.20
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.320	14106.154	325758.781	225.867	90.3	0.924	10019	4384	1.15
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.320	12053.730	627706.813	509.333	101.9	1.042	17854	2759	1.29

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.996775
Calibration curve: 1.02243 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



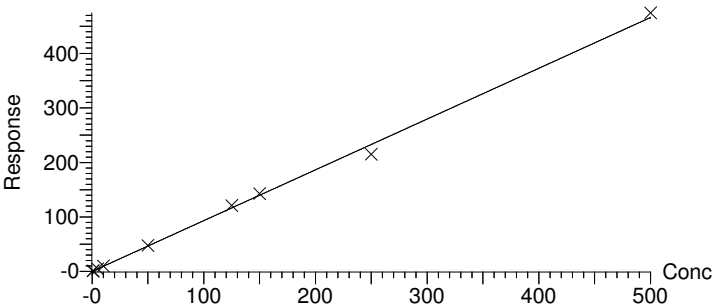
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.642	144859.297	7111.092	0.526	105.3	0.982	142	38	1.07
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.642	137819.672	66948.320	5.209	104.2	0.972	1713	241	1.06
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.647	135830.859	13223.981	1.044	104.4	0.974	304	22217	1.07
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.642	151419.391	154815.000	10.964	109.6	1.022	4511	881	1.01
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.642	125342.477	596211.000	51.010	102.0	0.951	14381	1688	1.09
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.652	116747.492	1413034.625	129.795	103.8	0.968	21655	3891	1.00
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.642	112300.797	1604988.250	153.265	102.2	0.953	33223	3855	1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.637	115193.828	2476876.250	230.584	92.2	0.860	16628	6046	1.13
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.637	84930.875	4031957.750	509.101	101.8	0.949	41241	5675	1.22

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998076
Calibration curve: 0.932494 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



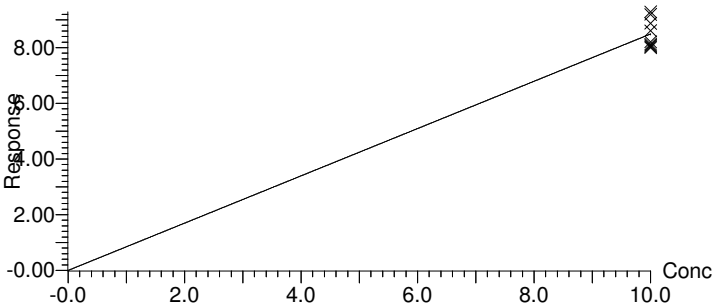
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	11.642	181019.656	144859.297	9.424	94.2	0.800	5096		1.11
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	11.642	171428.797	137819.672	9.468	94.7	0.804	4741		1.05
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	11.647	165549.922	135830.859	9.663	96.6	0.820	3583		0.99
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	11.642	187295.563	151419.391	9.521	95.2	0.808	6084		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	11.647	154304.531	125342.477	9.566	95.7	0.812	3791		1.06
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	11.652	131503.078	116747.492	10.455	104.6	0.888	4523		1.07
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	11.642	130429.477	112300.797	10.140	101.4	0.861	4400		1.04
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	11.637	124040.633	115193.828	10.937	109.4	0.929	3600		1.03
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	11.637	92395.469	84930.875	10.825	108.3	0.919	2609		1.11

Compound name: MPFDOA
Response Factor: 0.849124
RRF SD: 0.051403, % Relative SD: 6.05365
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



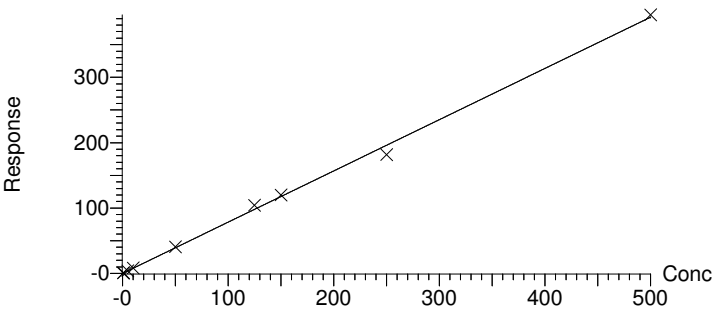
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.0...	144859.297	6038.270	0.532	106.3	0.834	405	74	1.16
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.0...	137819.672	55146.750	5.103	102.1	0.800	3623	699	1.19
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.0...	135830.859	10279.238	0.965	96.5	0.757	1018	129	1.20
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.0...	151419.391	129208.297	10.882	108.8	0.853	8235	2178	1.17
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.0...	125342.477	511294.594	52.020	104.0	0.816	33757	5223	1.07
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.0...	116747.492	1219444.000	133.202	106.6	0.836	51202	13133	1.25
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.0...	112300.797	1344929.250	152.726	101.8	0.798	41056	13069	1.14
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.0...	115193.828	2090999.375	231.484	92.6	0.726	92637	5332	1.20
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.0...	84930.875	3360520.750	504.588	100.9	0.791	115770	37282	1.28

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.997973
Calibration curve: 0.784159 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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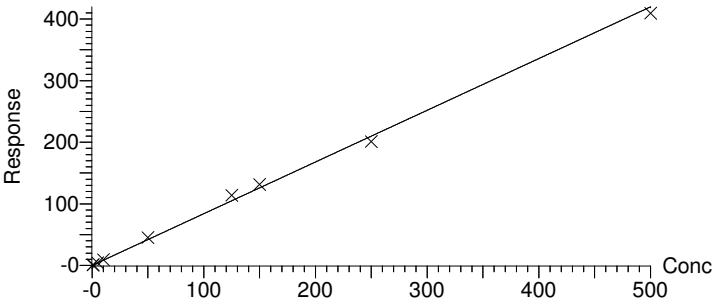
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.3...	106817.984	5067.272	0.565	113.0	0.949	767	262	1.12
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.3...	105628.445	45242.324	5.101	102.0	0.857	5128	1913	1.14
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.3...	101765.023	8672.169	1.015	101.5	0.852	834	368	1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.3...	115608.117	106578.086	10.980	109.8	0.922	13791	4497	1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.3...	92122.031	417635.250	53.993	108.0	0.907	54684	19404	1.10
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.3...	84396.242	962467.938	135.822	108.7	0.912	92214	7568	1.05
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.3...	83530.195	1099095.750	156.711	104.5	0.877	116154	23264	1.05
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.3...	81056.078	1629228.125	239.389	95.8	0.804	90420	31315	1.20
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.3...	63714.332	2610246.000	487.924	97.6	0.819	152466	51686	1.11

Compound name: PFTA
Coefficient of Determination: R^2 = 0.997747
Calibration curve: 0.839639 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



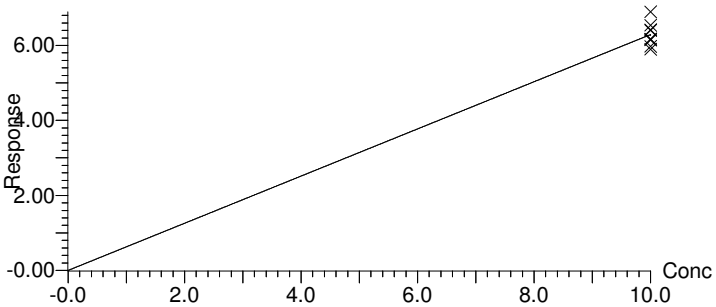
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.3...	181019.656	106817.984	9.382	93.8	0.590	32098		1.13
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.3...	171428.797	105628.445	9.797	98.0	0.616	36393		1.15
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.3...	165549.922	101765.023	9.774	97.7	0.615	30655		1.05
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.3...	187295.563	115608.117	9.814	98.1	0.617	35151		1.09
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.3...	154304.531	92122.031	9.492	94.9	0.597	17384		1.11
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.3...	131503.078	84396.242	10.204	102.0	0.642	19989		1.06
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.3...	130429.477	83530.195	10.183	101.8	0.640	16383		1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.3...	124040.633	81056.078	10.390	103.9	0.653	23498		1.11
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.3...	92395.469	63714.332	10.964	109.6	0.690	15396		1.12

Compound name: M2PFTEDA
Response Factor: 0.628942
RRF SD: 0.0308356, % Relative SD: 4.90277
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



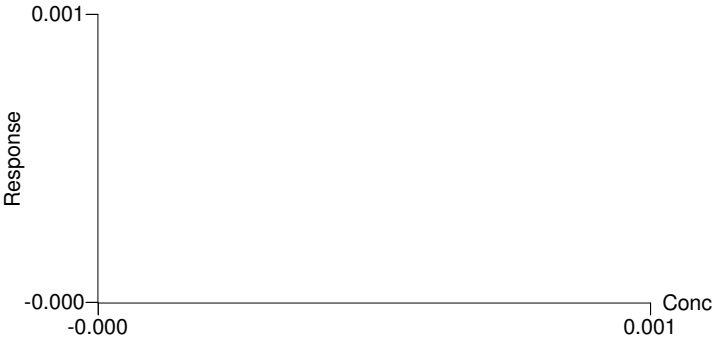
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35		221190.594							
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14		205103.734							
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53		194474.000							
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32		229697.266							
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03		195261.016							
6	I11882	IA2-537STD125	01-Nov-18	18:08:34		173754.250							
7	I11883	IA2-537STD150	01-Nov-18	18:25:12		173456.234							
8	I11884	IA2-537STD250	01-Nov-18	18:41:43		173018.406							
9	I11885	IA2-537STD500	01-Nov-18	18:58:17		133364.344							

Compound name: M3HFPO-DA
No Calibration
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



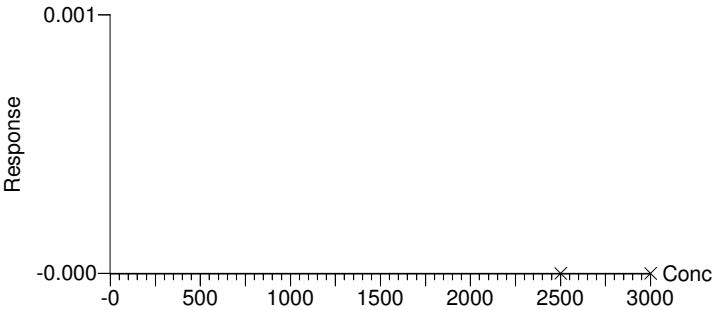
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35									
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14									
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53									
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32									
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03									
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	7.460		156112.078			0.000	11520		1.36
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	7.463		197766.563			0.000	10837		1.36
8	I11884	IA2-537STD250	01-Nov-18	18:41:43									
9	I11885	IA2-537STD500	01-Nov-18	18:58:17									

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.000000
Calibration curve:
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



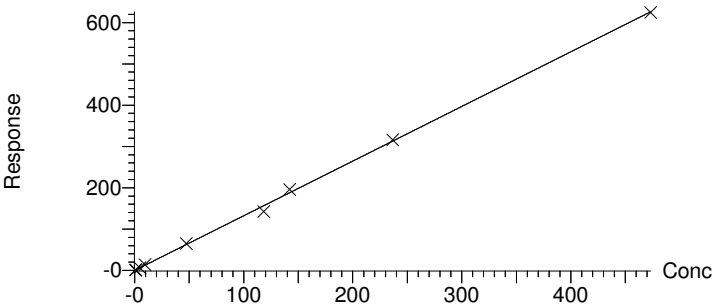
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	8.497	168819.391	11960.159	0.535	113.2	1.497	606	115	0.90
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	8.505	169481.359	107786.516	4.807	101.6	1.344	6438	6	0.99
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	8.512	166287.438	19855.088	0.902	95.4	1.262	1114	194	0.92
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	8.507	183051.500	256319.391	10.583	111.8	1.480	9065	1	0.97
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	8.507	155940.359	1019769.000	49.425	104.5	1.382	30601	44	0.97
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	8.505	142569.578	2034127.750	107.834	91.2	1.206	41796	67	0.98
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	8.512	141625.406	2771866.750	147.922	104.2	1.379	49280	262	1.06
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	8.500	135964.875	4296849.500	238.851	101.0	1.336	32813	121	0.99
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	8.494	106021.633	6620006.000	471.918	99.8	1.320	90603	95	1.01

Compound name: ADONA
Coefficient of Determination: R^2 = 0.998575
Calibration curve: 1.32311 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



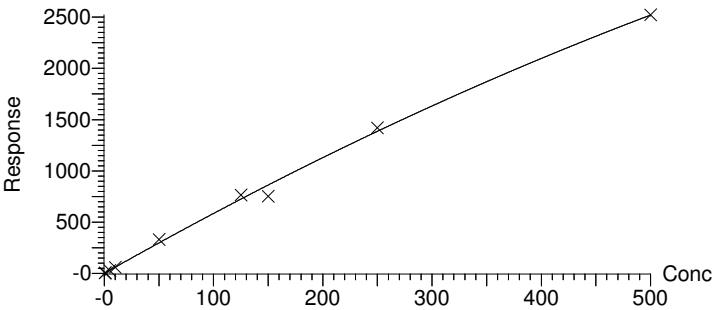
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.6...	11265.436	4120.283	0.605	120.9	7.315	125		0.72
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.6...	10569.568	29809.369	4.668	93.4	5.641	904		1.10
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.6...	10714.862	6935.549	1.070	107.0	6.473	206		1.13
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.6...	11484.085	69774.234	10.074	100.7	6.076	2730		1.13
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.6...	9601.772	319184.719	55.980	112.0	6.648	12477		1.15
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.6...	7991.326	610155.625	131.993	105.6	6.108	19877		1.14
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.6...	9029.919	678343.563	129.765	86.5	5.008	15153		1.21
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.6...	8223.537	1169410.375	257.072	102.8	5.688	15998		1.45
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.6...	7424.929	1872983.625	500.590	100.1	5.045	29114		1.44

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.995979
Calibration curve: -0.00202226 * x^2 + 6.0515 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



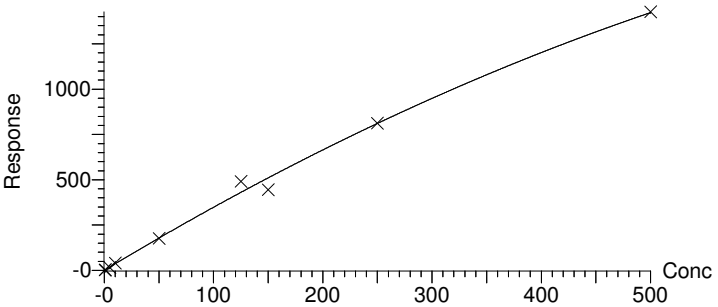
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.8...	11265.436	1699.304	0.414	82.8	3.017	89		0.99
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.8...	10569.568	16038.311	4.173	83.5	3.035	1008		1.09
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.8...	10714.862	2932.973	0.752	75.2	2.737	171		1.04
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.9...	11484.085	47477.063	11.405	114.1	4.134	2506		1.04
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.9...	9601.772	170086.813	49.707	99.4	3.543	9157		1.20
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.8...	7991.326	392843.406	144.027	115.2	3.933	12310		1.59
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.8...	9029.919	401688.531	129.449	86.3	2.966	14048		1.62
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.9...	8223.537	667368.875	250.187	100.1	3.246	13829		1.51
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.9...	7424.929	1059308.125	502.051	100.4	2.853	19148		1.47

Compound name: PFODA
Coefficient of Determination: R^2 = 0.993924
Calibration curve: -0.00159606 * x^2 + 3.64303 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



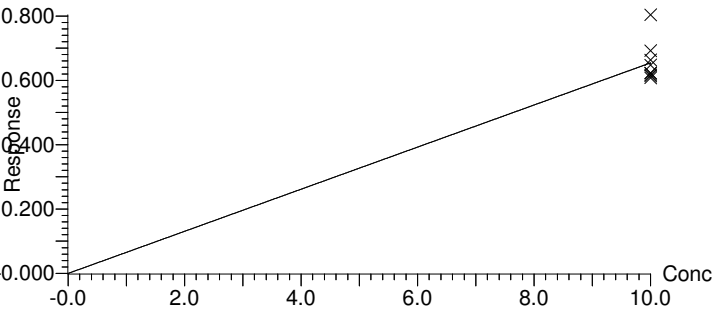
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:31:39 Eastern Daylight Time

Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I11877	IA2-537STD0.5	01-Nov-18	16:45:35	12.6...	181019.656	11265.436	9.512	95.1	0.062	1389		0.99
2	I11878	IA2-537STD5.0	01-Nov-18	17:02:14	12.6...	171428.797	10569.568	9.424	94.2	0.062	1638		1.18
3	I11879	IA2-537STD1.0	01-Nov-18	17:18:53	12.6...	165549.922	10714.862	9.893	98.9	0.065	933		1.12
4	I11880	IA2-537STD10.0	01-Nov-18	17:35:32	12.6...	187295.563	11484.085	9.372	93.7	0.061	405		1.15
5	I11881	IA2-537STD50.0	01-Nov-18	17:52:03	12.6...	154304.531	9601.772	9.511	95.1	0.062	665		1.16
6	I11882	IA2-537STD125	01-Nov-18	18:08:34	12.6...	131503.078	7991.326	9.289	92.9	0.061	585		1.32
7	I11883	IA2-537STD150	01-Nov-18	18:25:12	12.6...	130429.477	9029.919	10.582	105.8	0.069	789		1.28
8	I11884	IA2-537STD250	01-Nov-18	18:41:43	12.6...	124040.633	8223.537	10.134	101.3	0.066	529		1.35
9	I11885	IA2-537STD500	01-Nov-18	18:58:17	12.6...	92395.469	7424.929	12.283	122.8	0.080	883		1.54

Compound name: M2PFHxDA
Response Factor: 0.0654236
RRF SD: 0.00624506, % Relative SD: 9.54559
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD0.5
Name: I11877
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.12	212.926 > 169.111	3903		0.493		na	98.6
2	M3PFBA	INT STD	2.12	215.926 > 172.122	99374		10.736		na	107.4
3	MPFBA	INT STD	2.12	216.926 > 172.137	90611		9.599		na	96.0
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	5895		0.506		na	101.2
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	123581		10.145		na	101.5
6	PFBS	375-73-5	5.77	298.989 > 80.295	737		0.380		na	85.9
7	M3PFBS	INT STD	5.77	301.989 > 80.254	21862		9.271		na	92.7
8	4:2FTS	757124-72-4	6.95	326.926 > 306.957	522		0.476	1.56	NO	101.9
9	M2-4:2FTS	INT STD	6.95	329.117 > 309.079	10801		7.384		na	73.8
10	PFHxA	307-24-4	7.03	312.989 > 269.028	7418		0.500		na	100.0
11	M5PFHxA	INT STD	7.03	317.989 > 273.045	152927		9.597		na	96.0
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	922		0.423	1.89	NO	90.0
13	PFHpA	375-85-9	8.32	362.926 > 319.014	9316		0.518	5.56	NO	103.6
14	M4PFHpA	INT STD	8.32	366.926 > 321.979	182619		9.746		na	97.5
15	br-PFHxS	355-46-4	8.25	398.926 > 80.295	146		0.071	1.84	NO	83.7
16	L-PFHxS	355-46-4	8.48	398.926 > 80.295	688		0.387	1.55	NO	104.7
17	PFHxS	355-46-4		398.926 > 80.295	834		0.458		na	
18	M3PFHxS	INT STD	8.48	401.926 > 80.317	12604		9.622		na	96.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	9739		0.591	9.44	NO	118.3
21	M2PFOA	INT STD	9.27	415.032 > 369.968	221191		11.715		na	117.1
22	PFOA	335-67-1		412.989 > 368.9	9739		0.591		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	168819		9.464		na	94.6
24	6:2FTS	27619-97-2	9.22	426.989 > 406.921	452		0.526	1.00	NO	110.8
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	8556		7.046		na	70.5
26	PFHpS	375-92-8	9.36	448.926 > 80.257	472		0.452	0.72	NO	95.2
27	PFNA	375-95-1	10.02	462.989 > 418.931	7934		0.555	4.48	NO	111.0
28	M9PFNA	INT STD	10.02	472.053 > 426.947	171129		9.619		na	96.2
29	br-PFOS	1763-23-1	9.88	498.989 > 80.294	255		0.103	2.62	NO	103.1
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	630		0.358	1.29	NO	98.0
31	PFOS	1763-23-1		498.989 > 80.294	885		0.461		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	18918		11.678		na	116.8
33	M8PFOS	INT STD	10.07	507.053 > 80.294	16856		9.555		na	95.5
34	PFDA	335-76-2	10.64	513.053 > 468.906	7893		0.548	6.30	NO	109.5
35	M2PFDA	INT STD	10.64	515.053 > 469.934	181020		12.177		na	121.8
36	M6PFDA	INT STD	10.64	519.053 > 473.931	162442		9.939		na	99.4
37	8:2FTS	39108-34-4	10.62	526.989 > 506.946	281		0.396		na	82.5
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	5715		8.015		na	80.2
39	PFNS	68259-12-1	10.67	548.989 > 80.249	753		0.494	1.44	NO	102.9

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

ID: IA2-537STD0.5
Name: I11877
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	13990		7.940		na	79.4
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	762		0.542		na	108.3
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	7344		0.515	7.03	NO	102.9
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	143626		10.499		na	105.0
44	PFDS	335-77-3	11.19	598.926 > 80.314	549		0.434	1.09	NO	90.0
45	FOSA	754-91-6	11.13	497.989 > 78.245	2292		0.445		na	88.9
46	M8FOSA	INT STD	11.13	506.053 > 78.286	52703		9.038		na	90.4
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	13790		8.113		na	81.1
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	828		0.587	3.61	NO	117.4
49	PFDoA	307-55-1	11.64	612.989 > 568.967	7111		0.526	12.27	NO	105.3
50	MPFDOA	INT STD	11.64	614.989 > 569.92	144859		9.424		na	94.2
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	6038		0.532	11.65	NO	106.3
52	PFTA	376-06-7	12.37	713.053 > 668.976	5067		0.565	9.27	NO	113.0
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	106818		9.382		na	93.8
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.50	376.926 > 251.005	11960		0.535	6475.45	NO	113.2
57	PFHxDA		12.68	813.053 > 769.005	4120		0.605		na	120.9
58	PFODA		12.89	912.989 > 869.032	1699		0.414		na	82.8
59	M2PFHxDA		12.68	815.372 > 770.158	11265		9.512		na	95.1

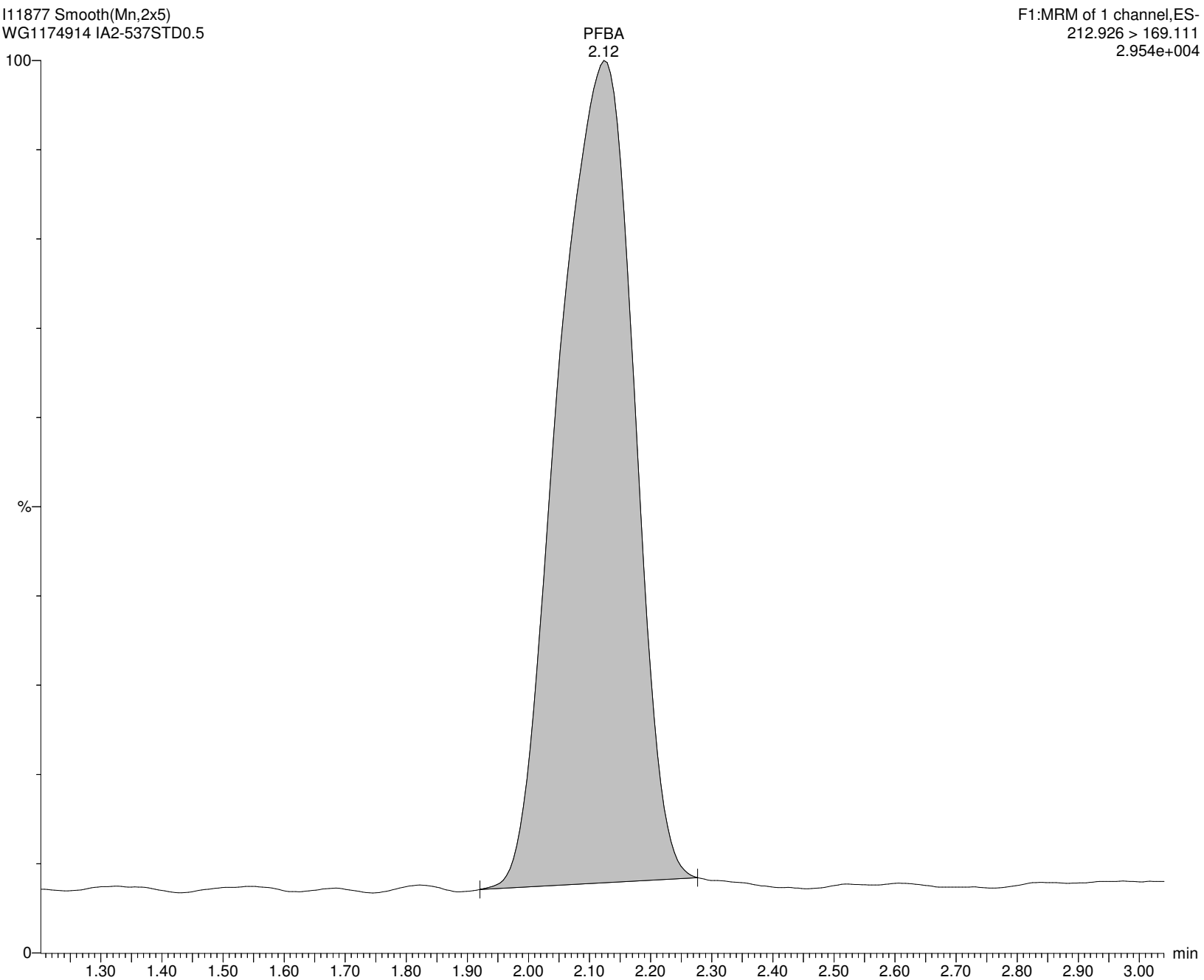
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

Name: I11877
ID: IA2-537STD0.5
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Name: I11877
ID: IA2-537STD0.5
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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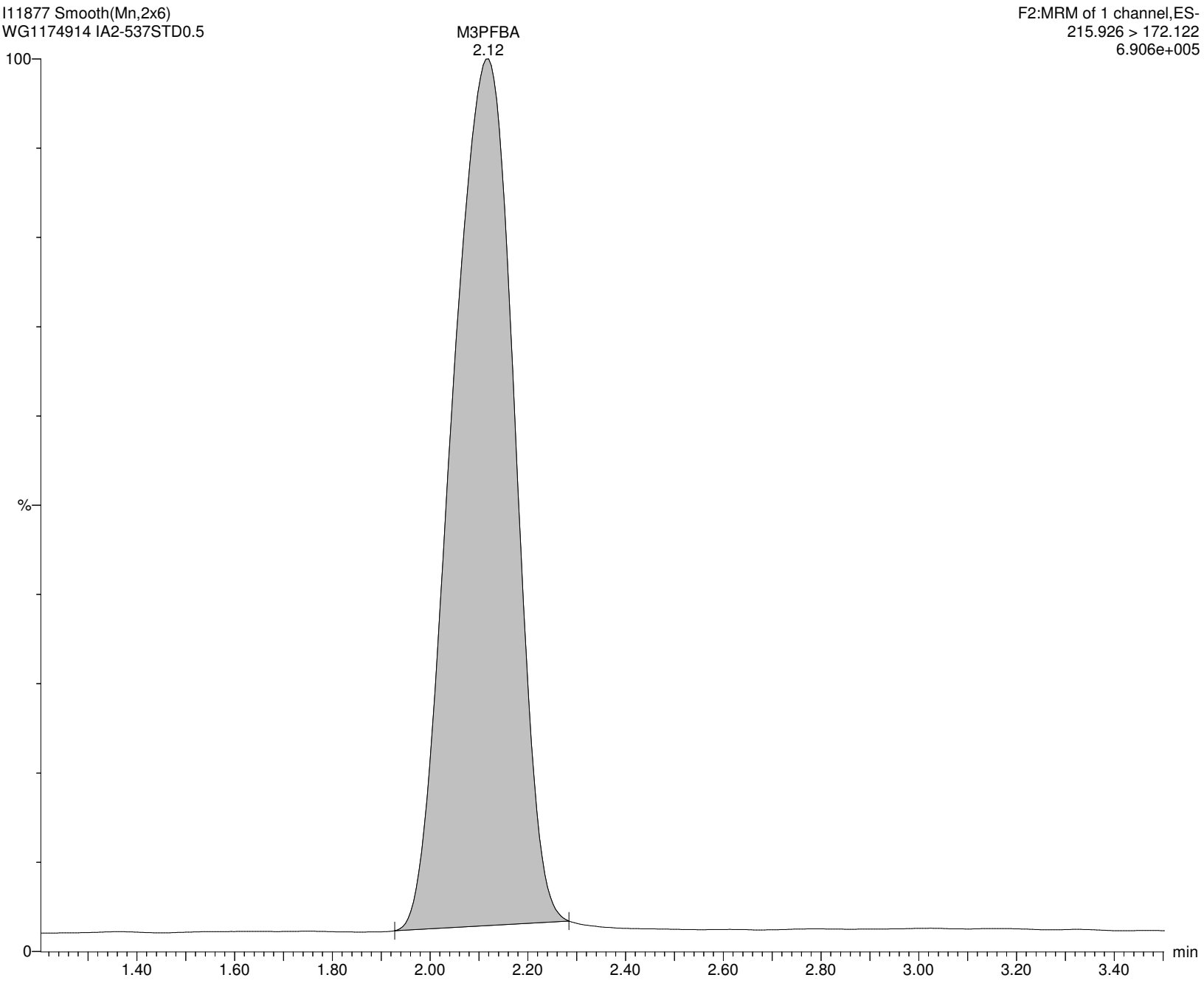

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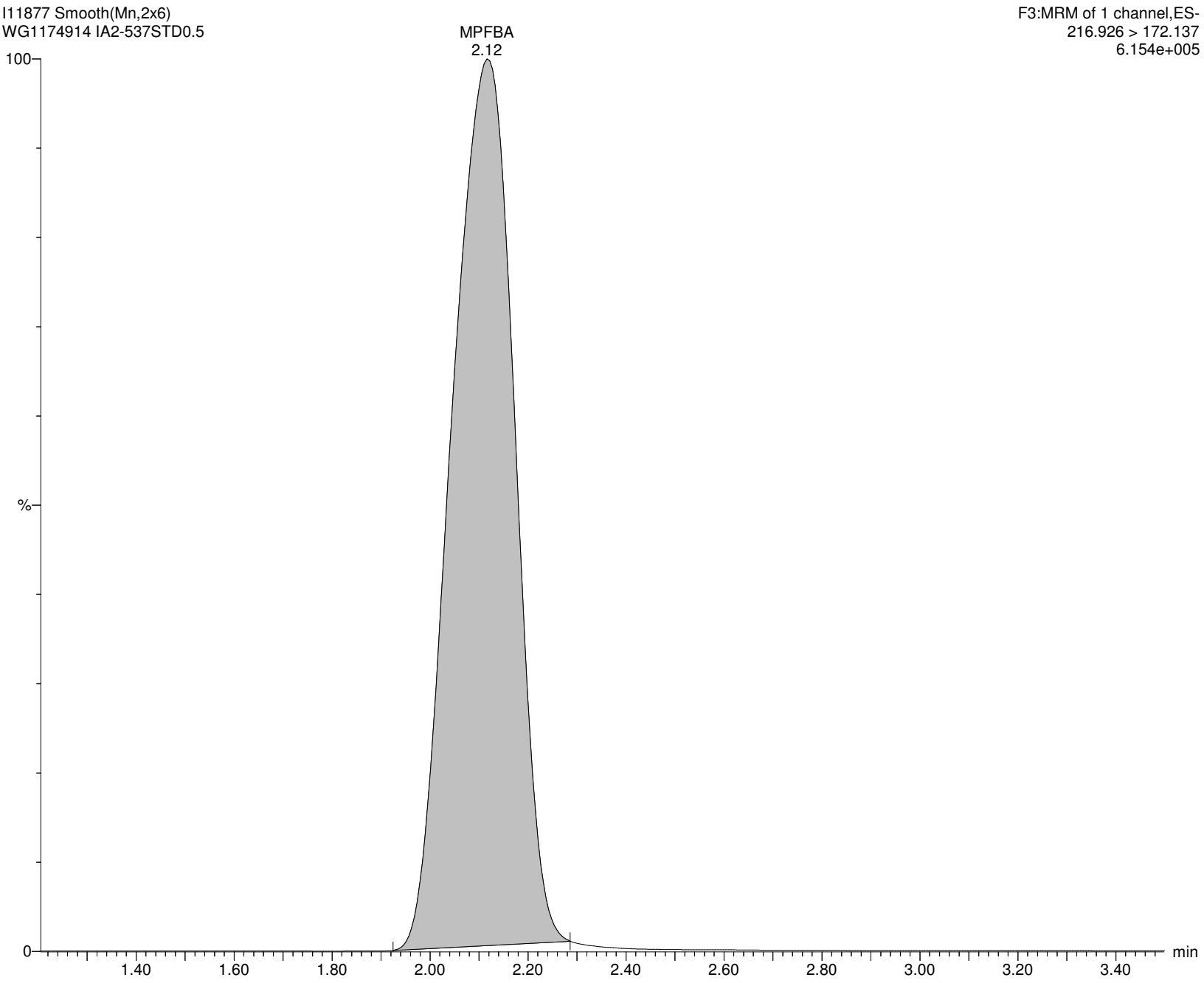

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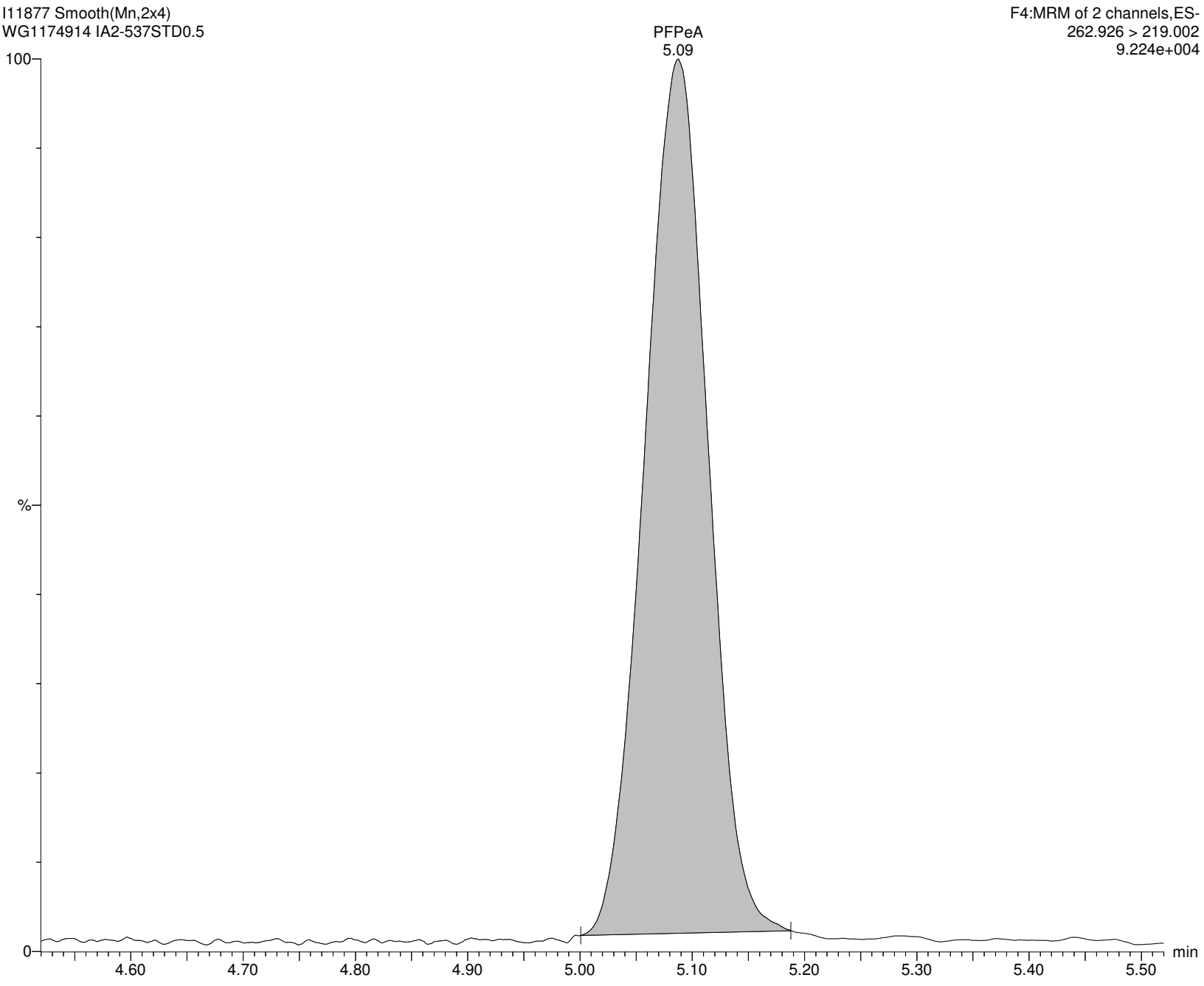

all concentration units in (ng/mL)

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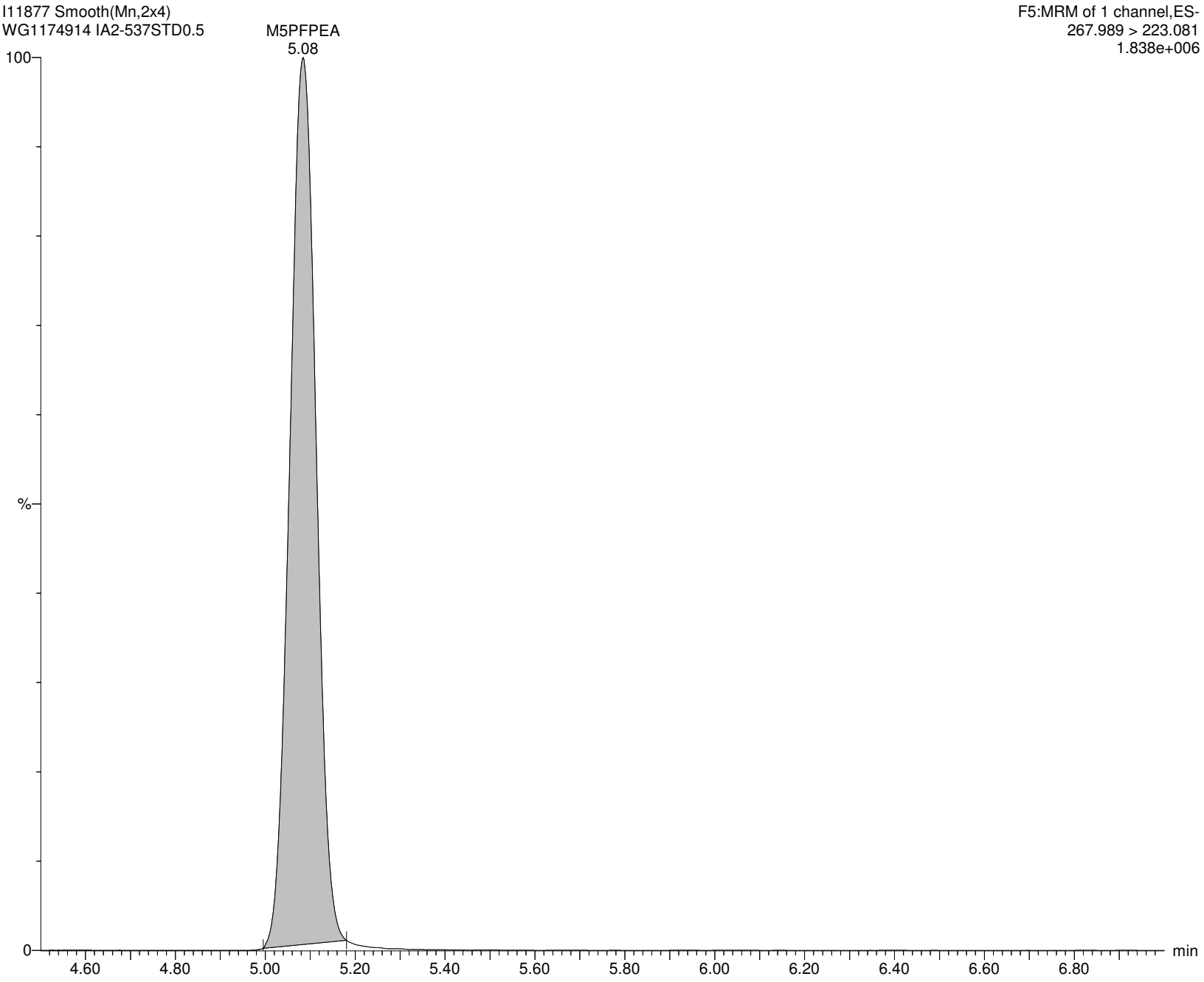

all concentration units in (ng/mL)

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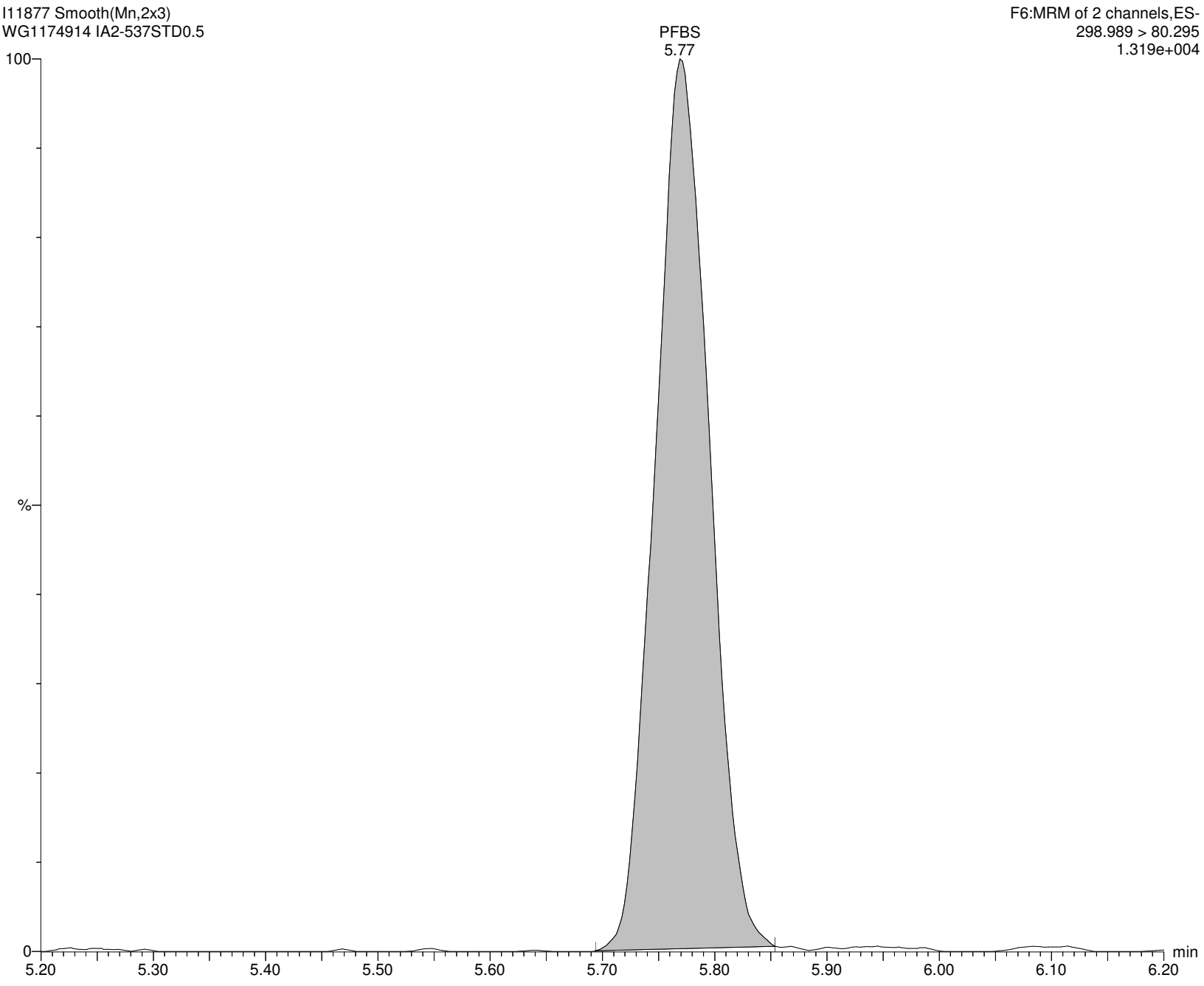

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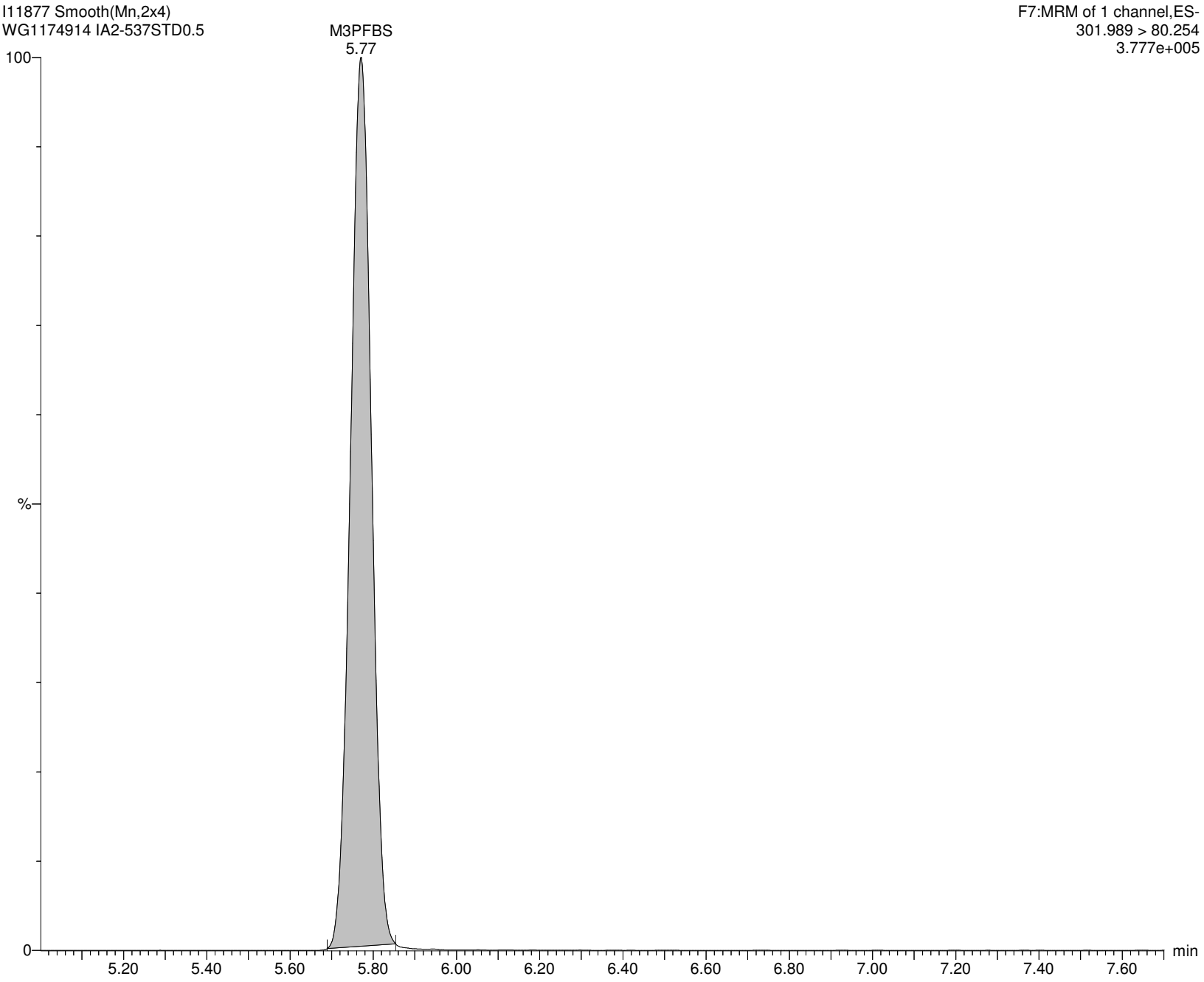

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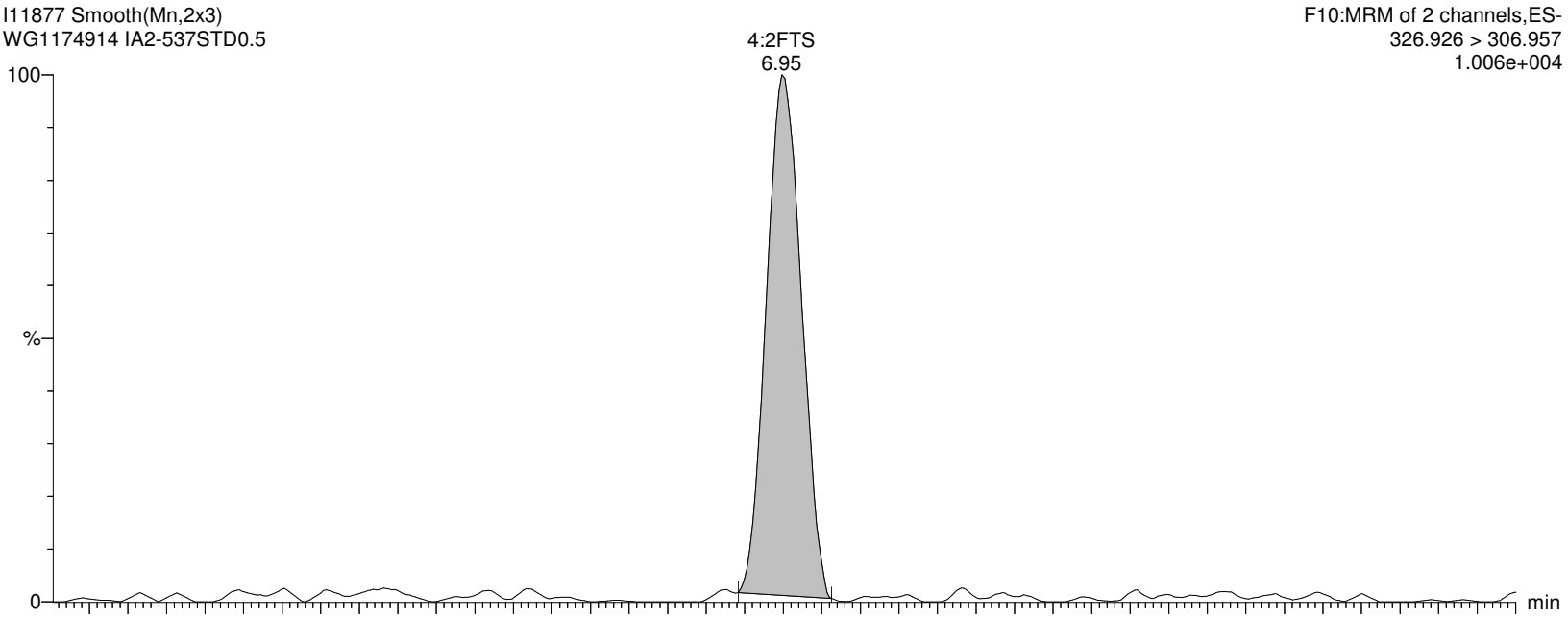

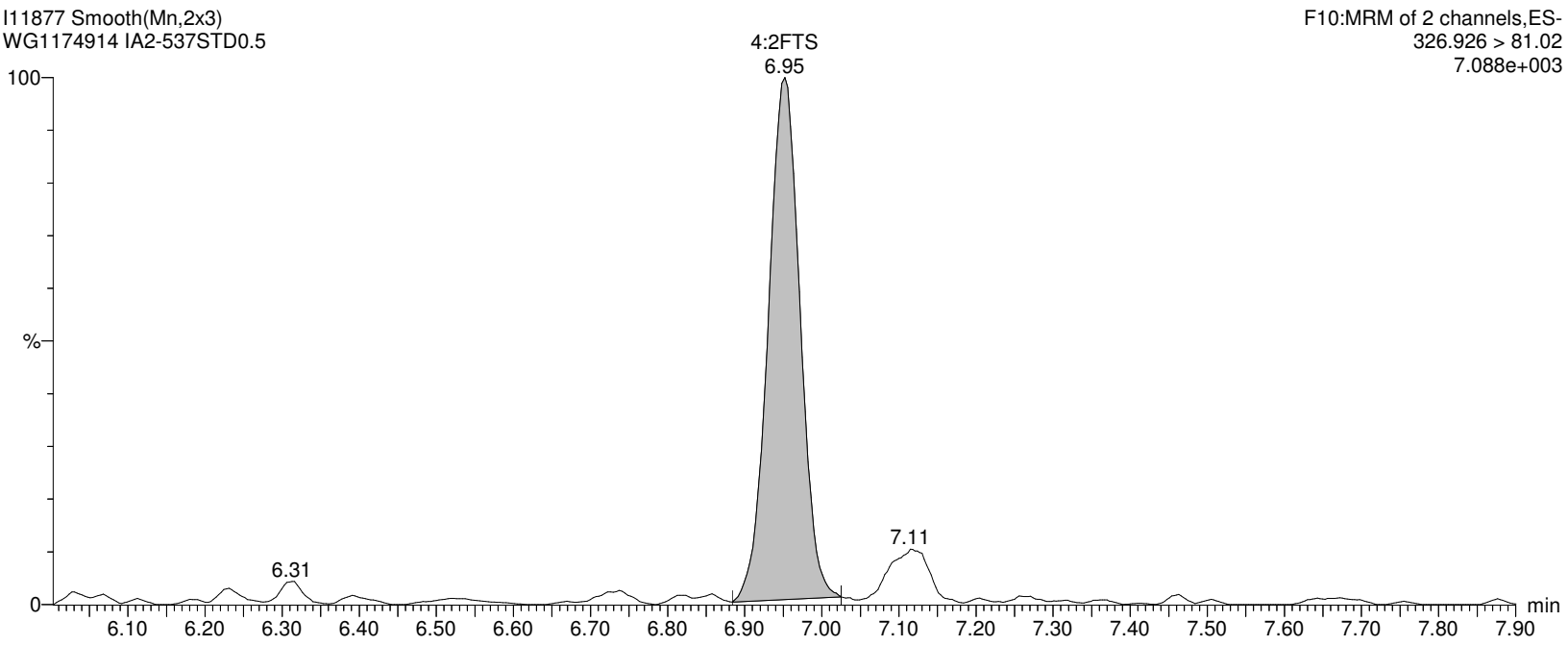

all concentration units in (ng/mL)

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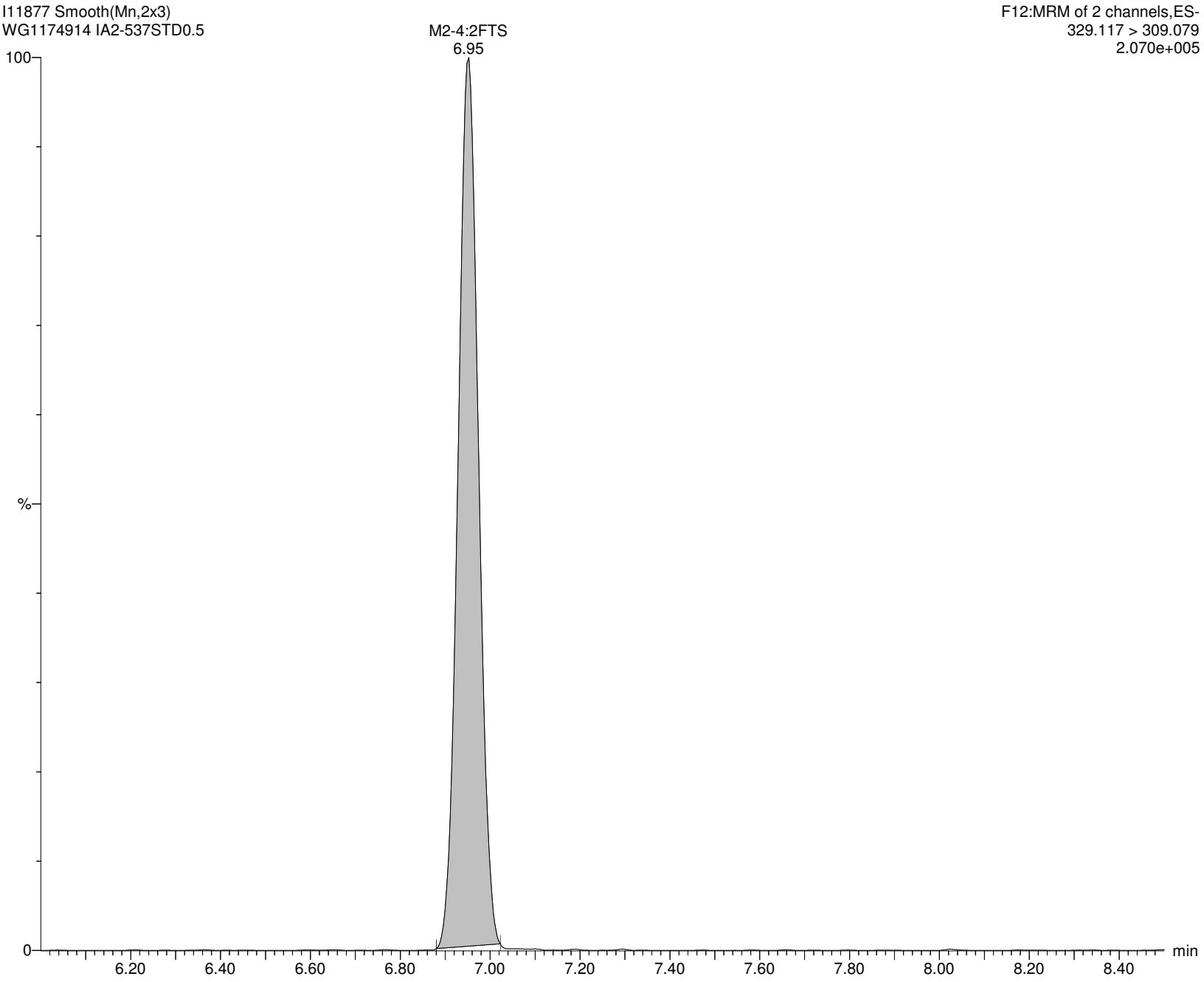

all concentration units in (ng/mL)

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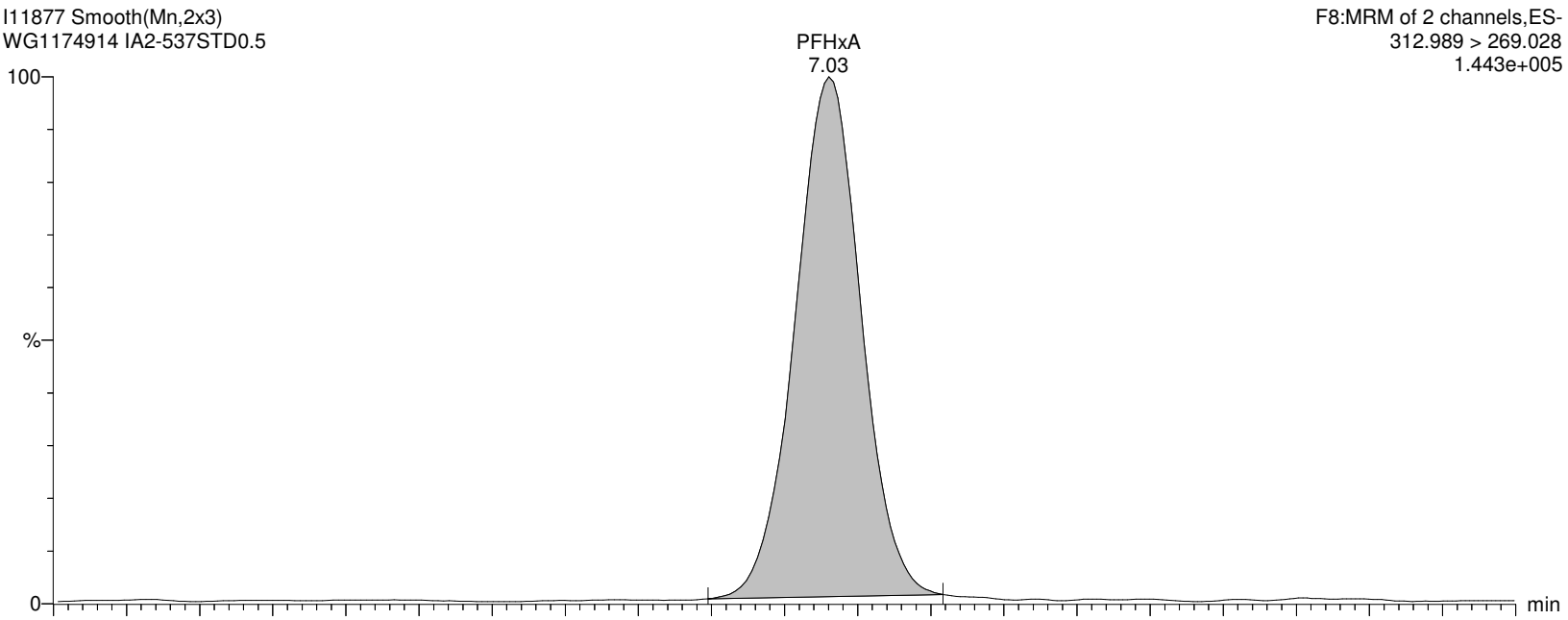

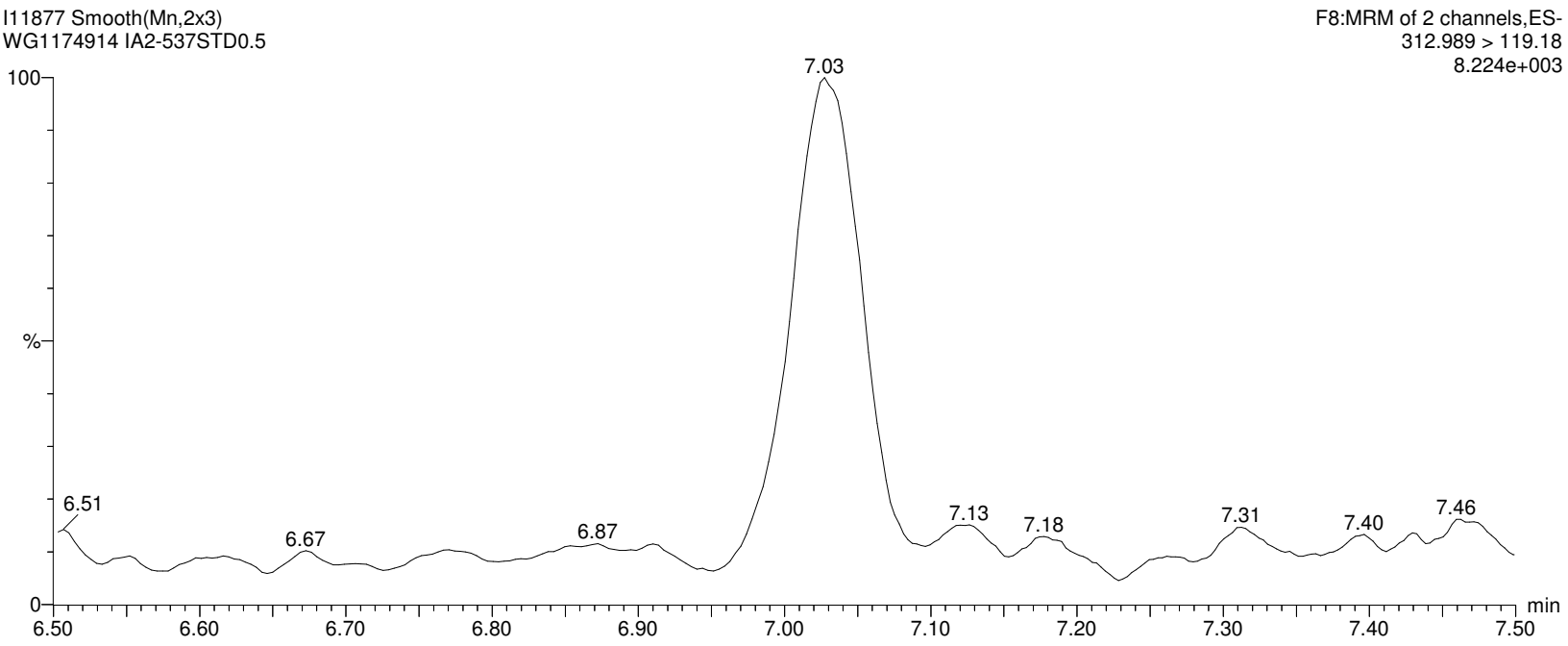

all concentration units in (ng/mL)

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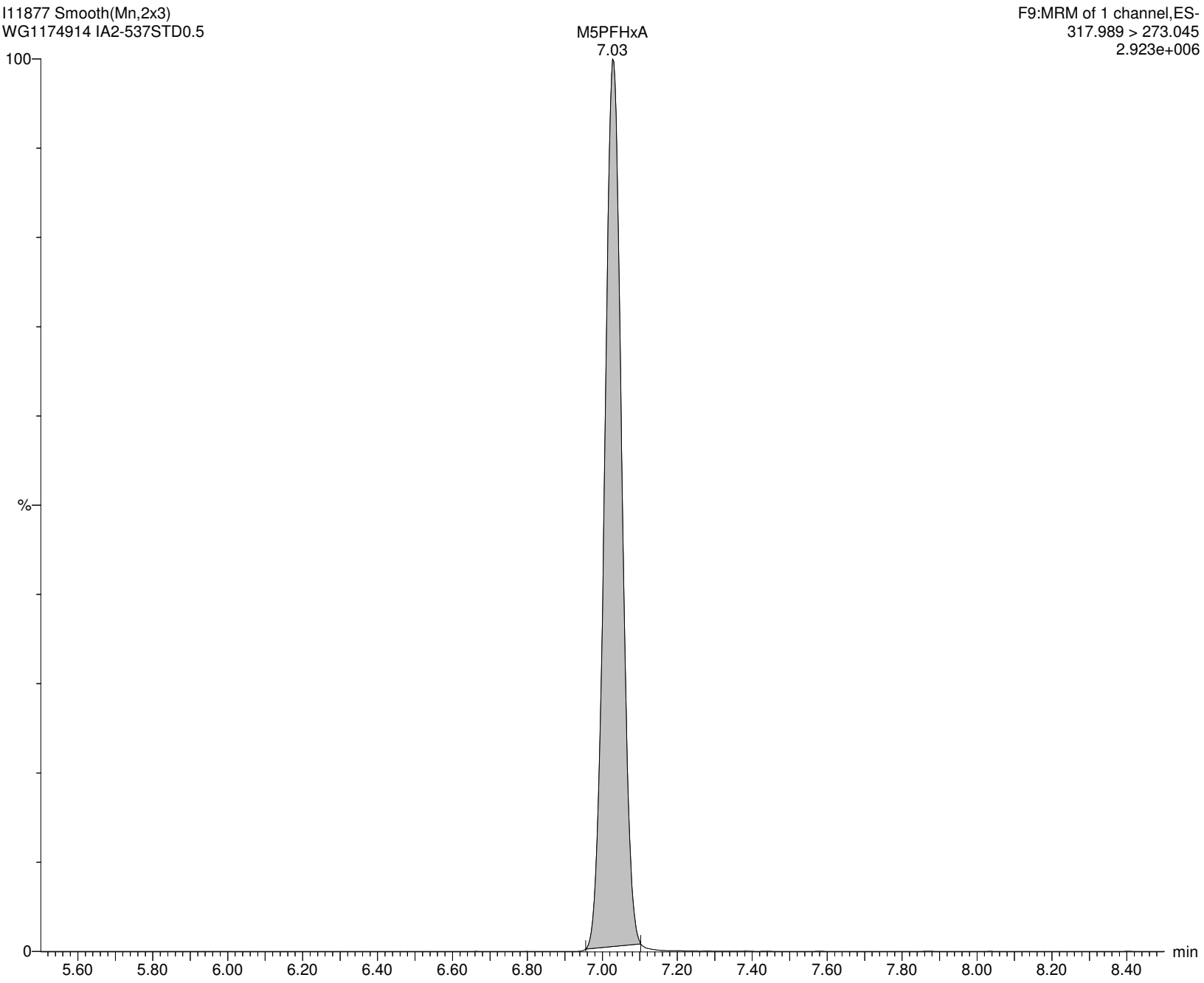

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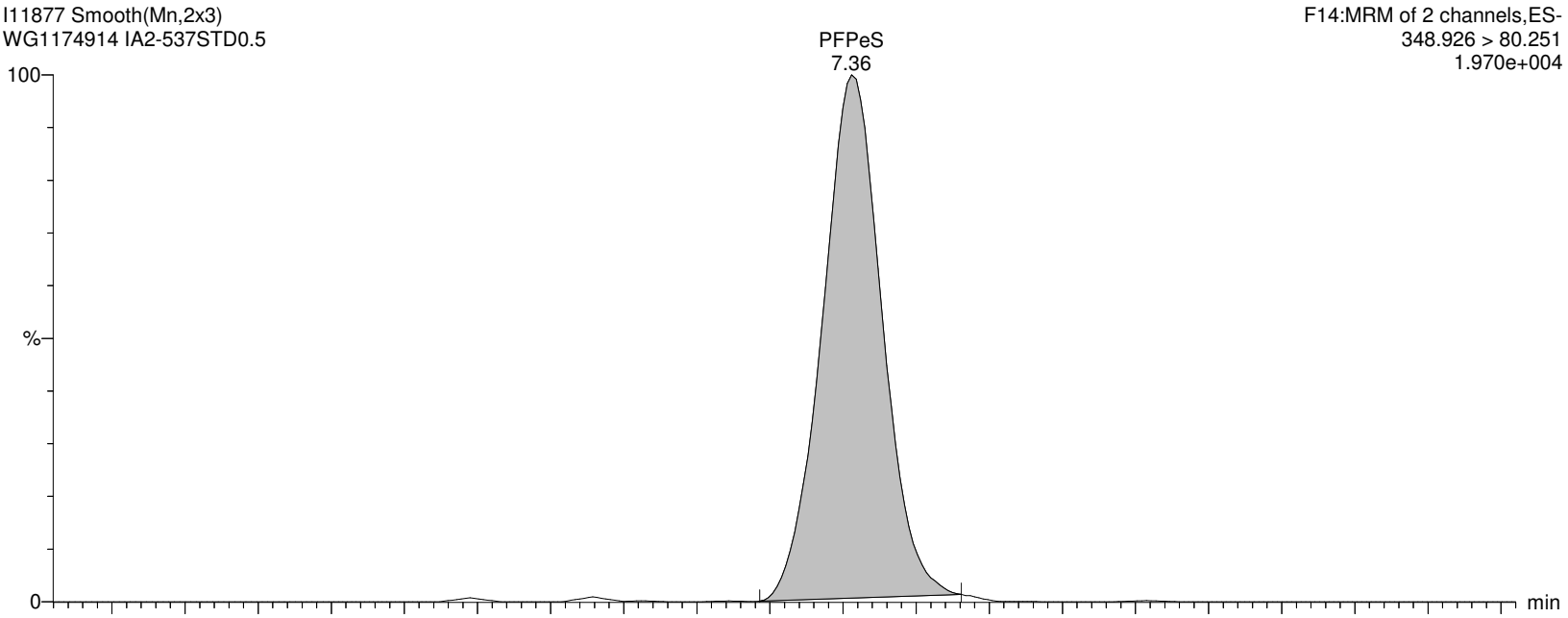

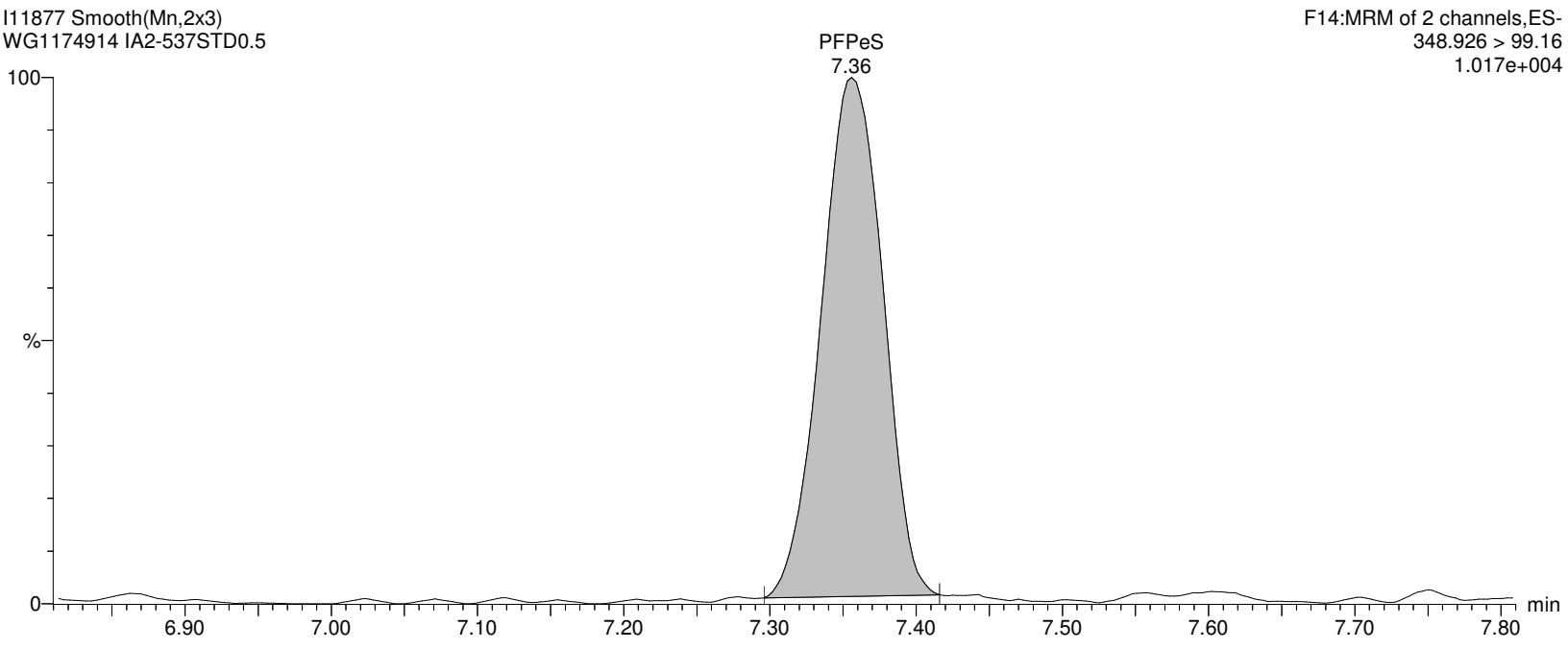

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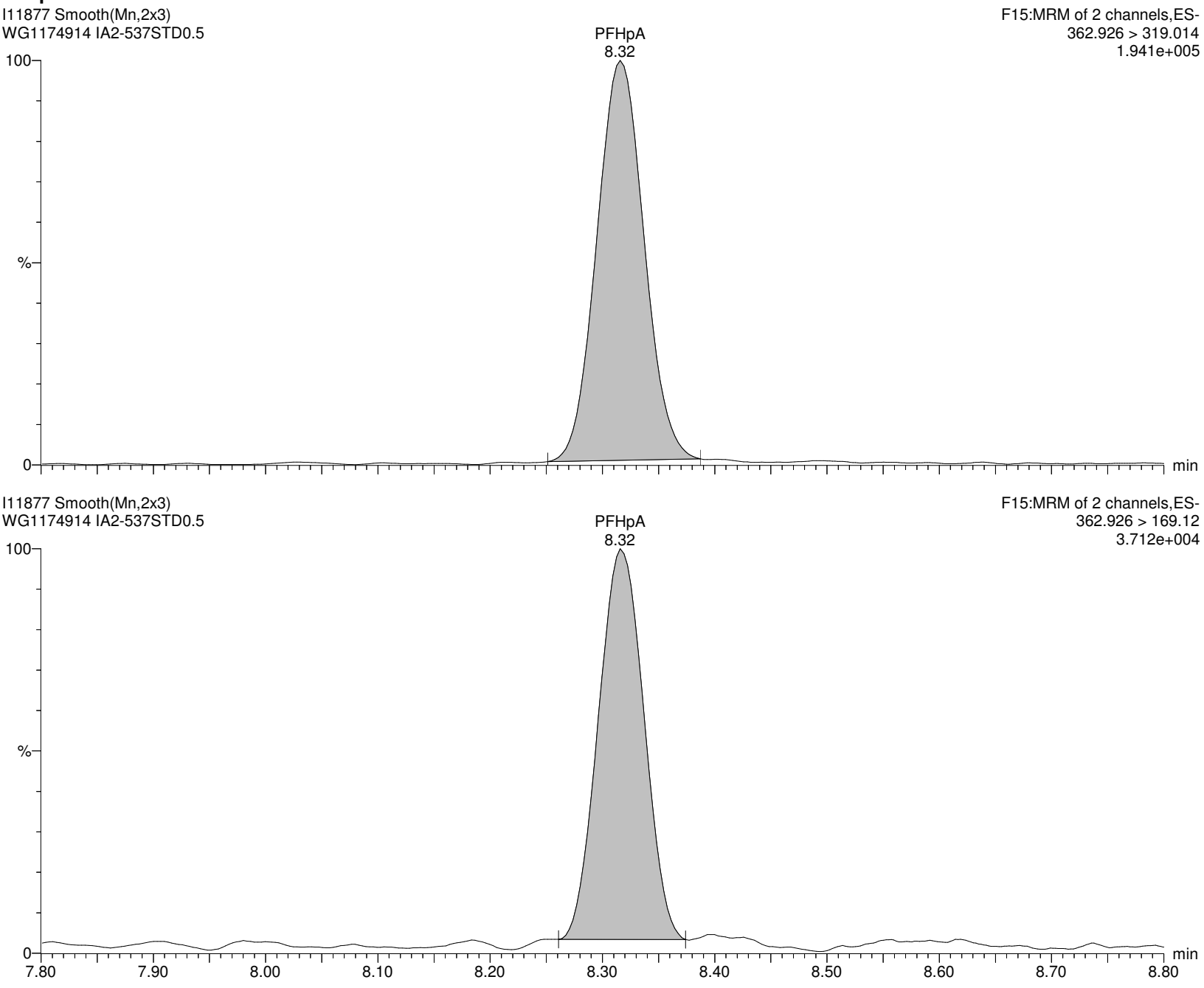

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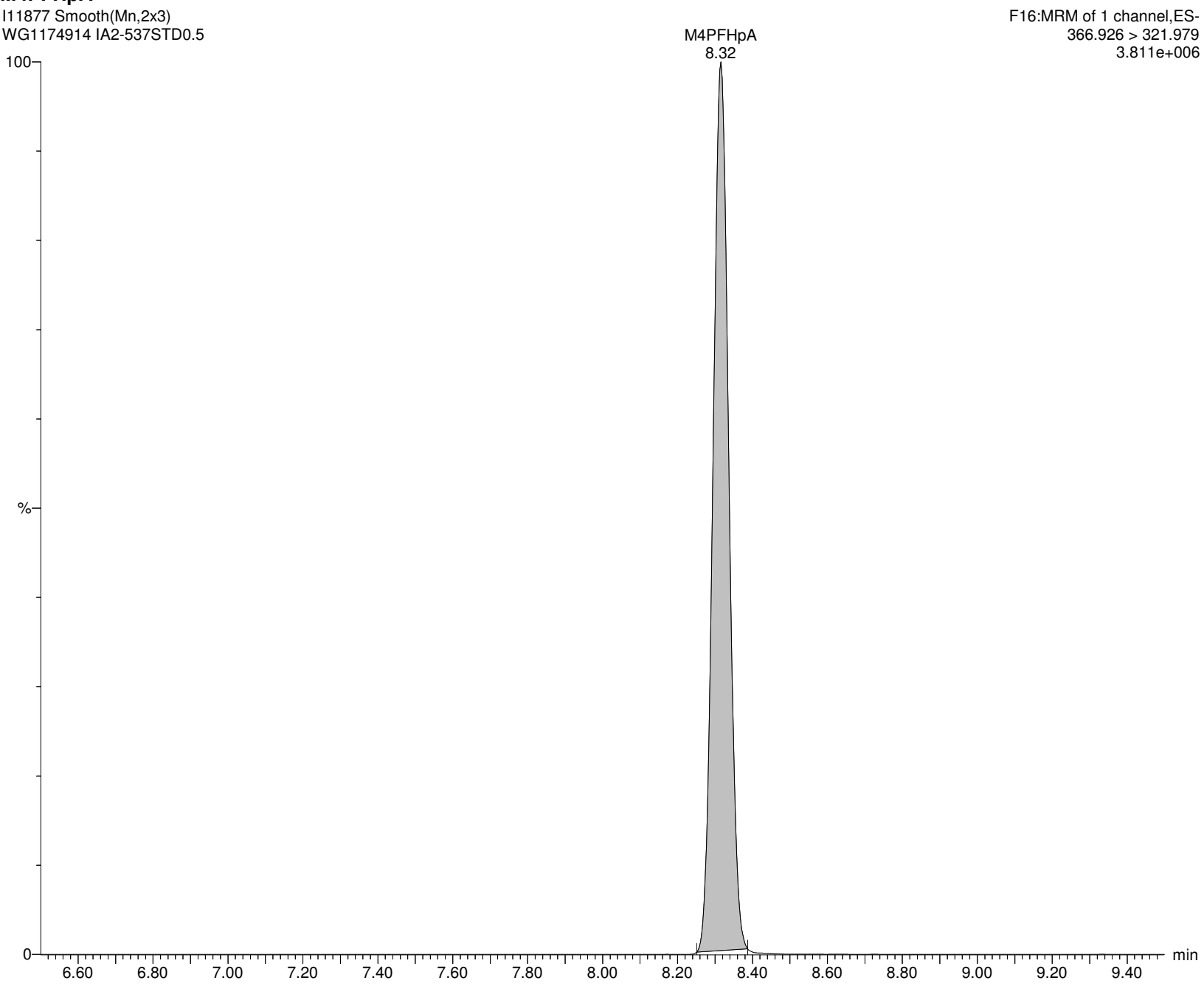

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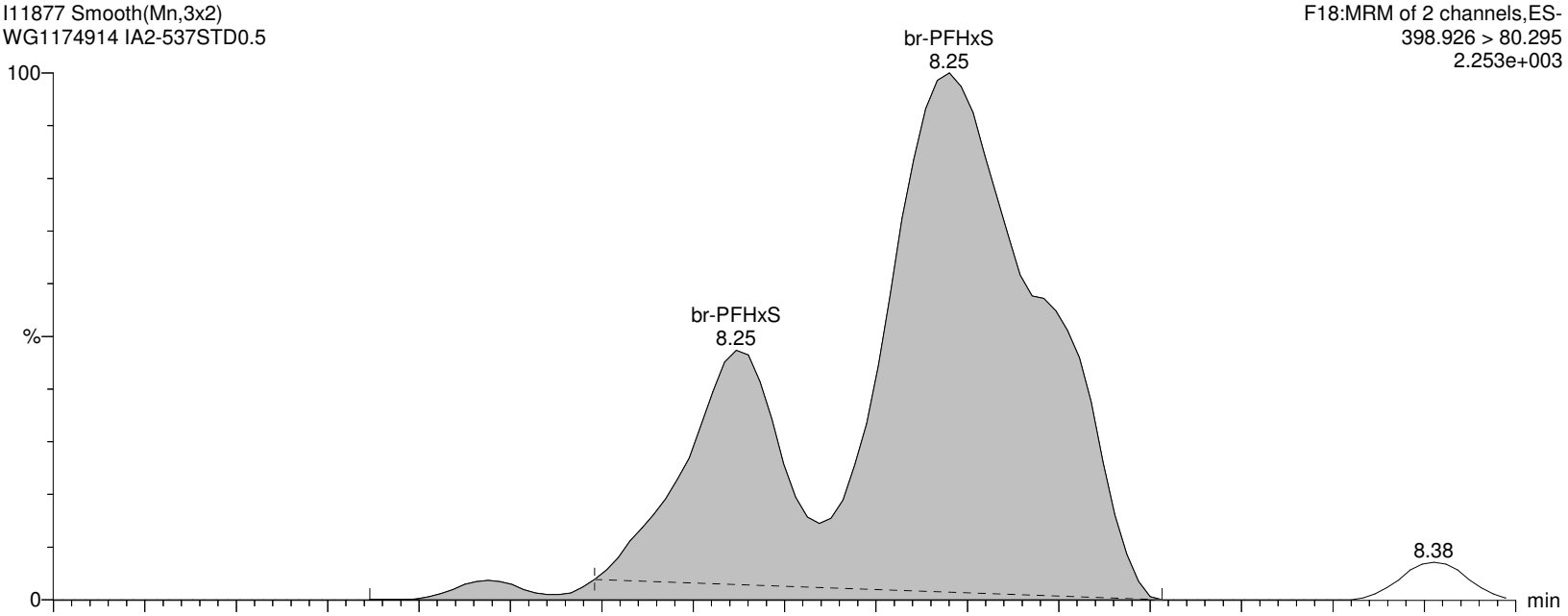

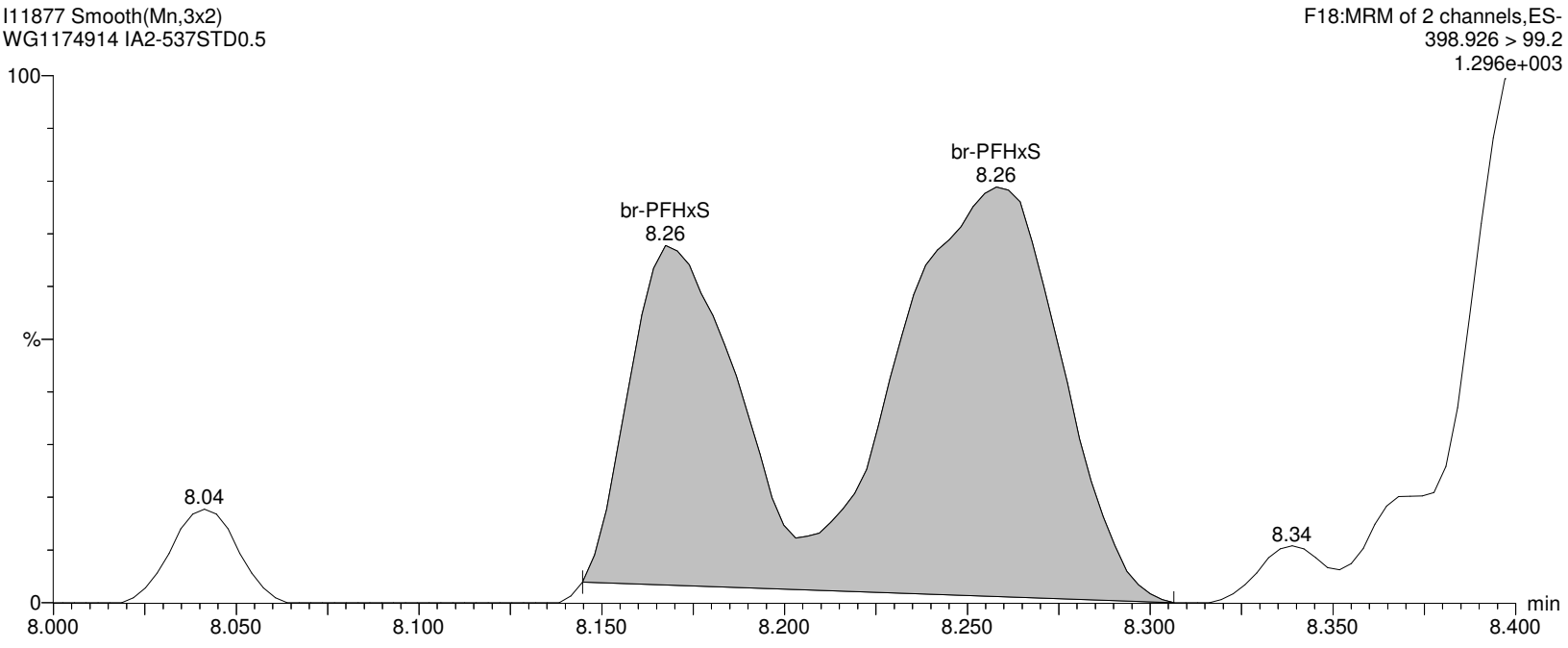

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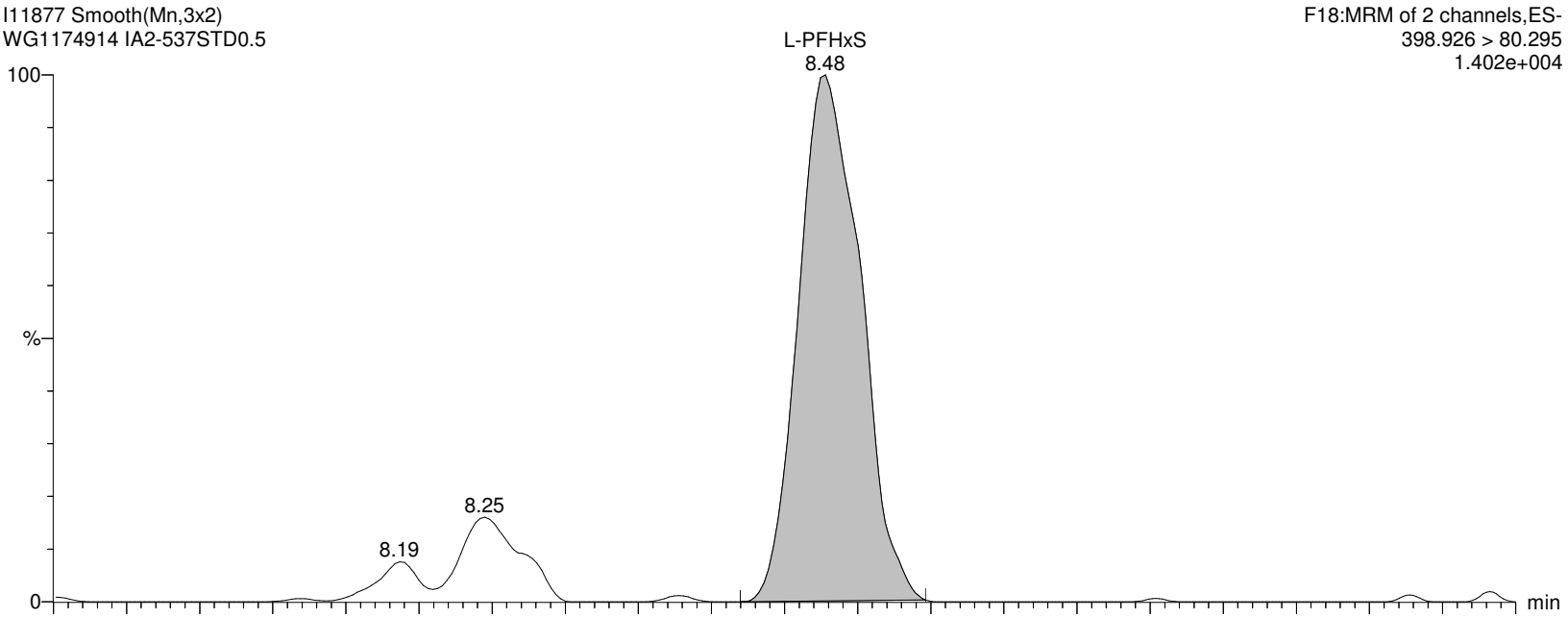
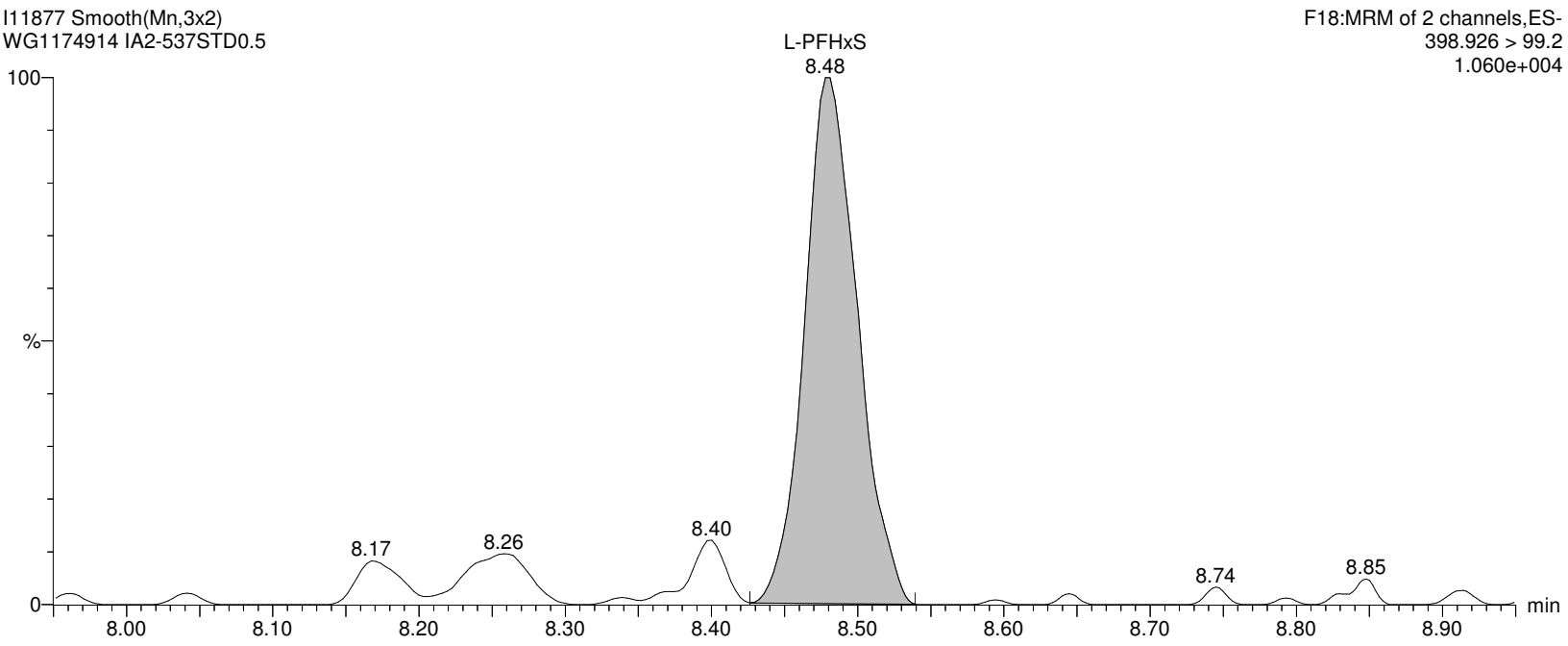
L-PFHxS





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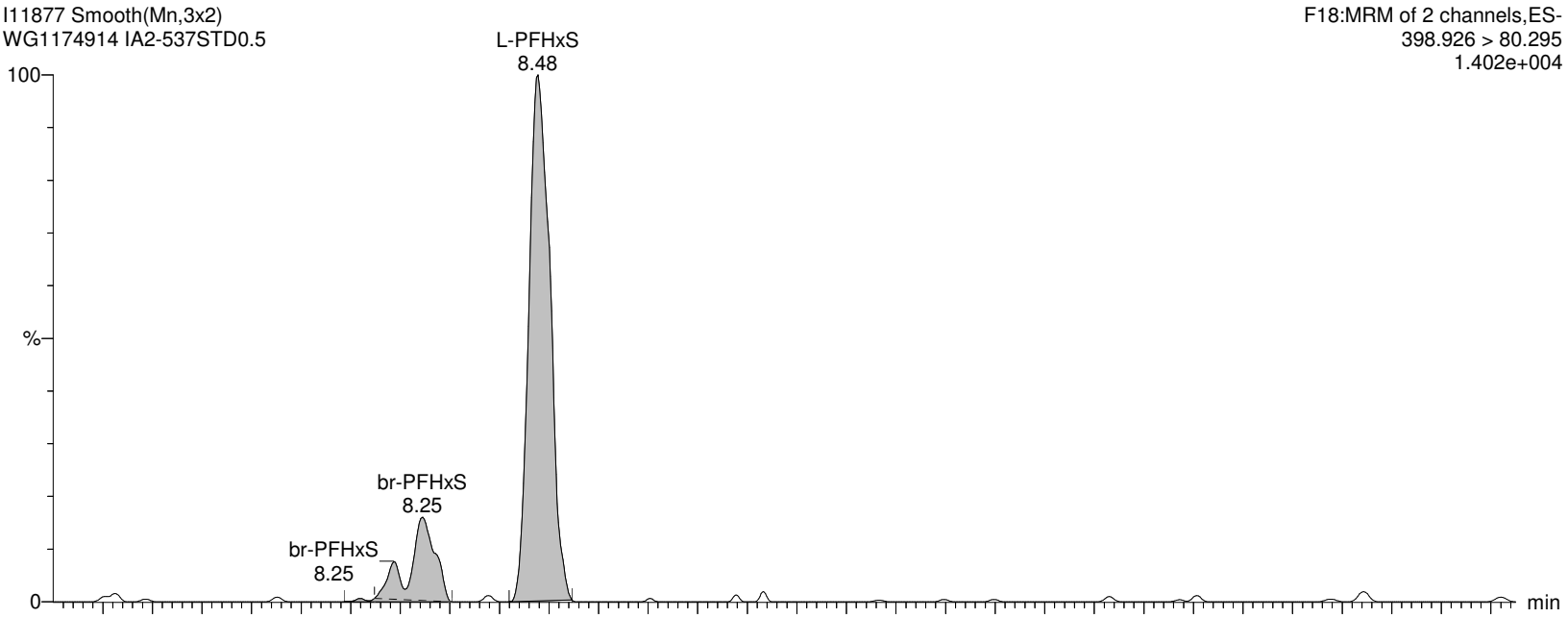

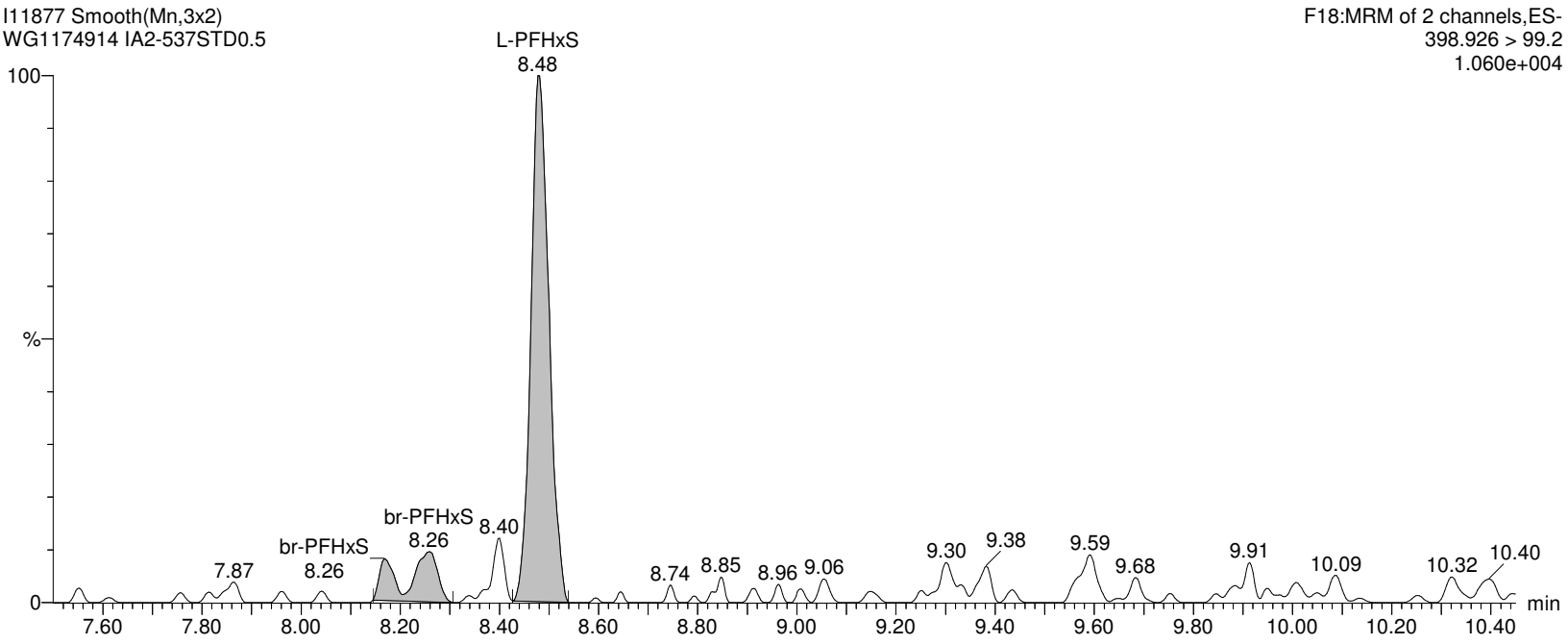

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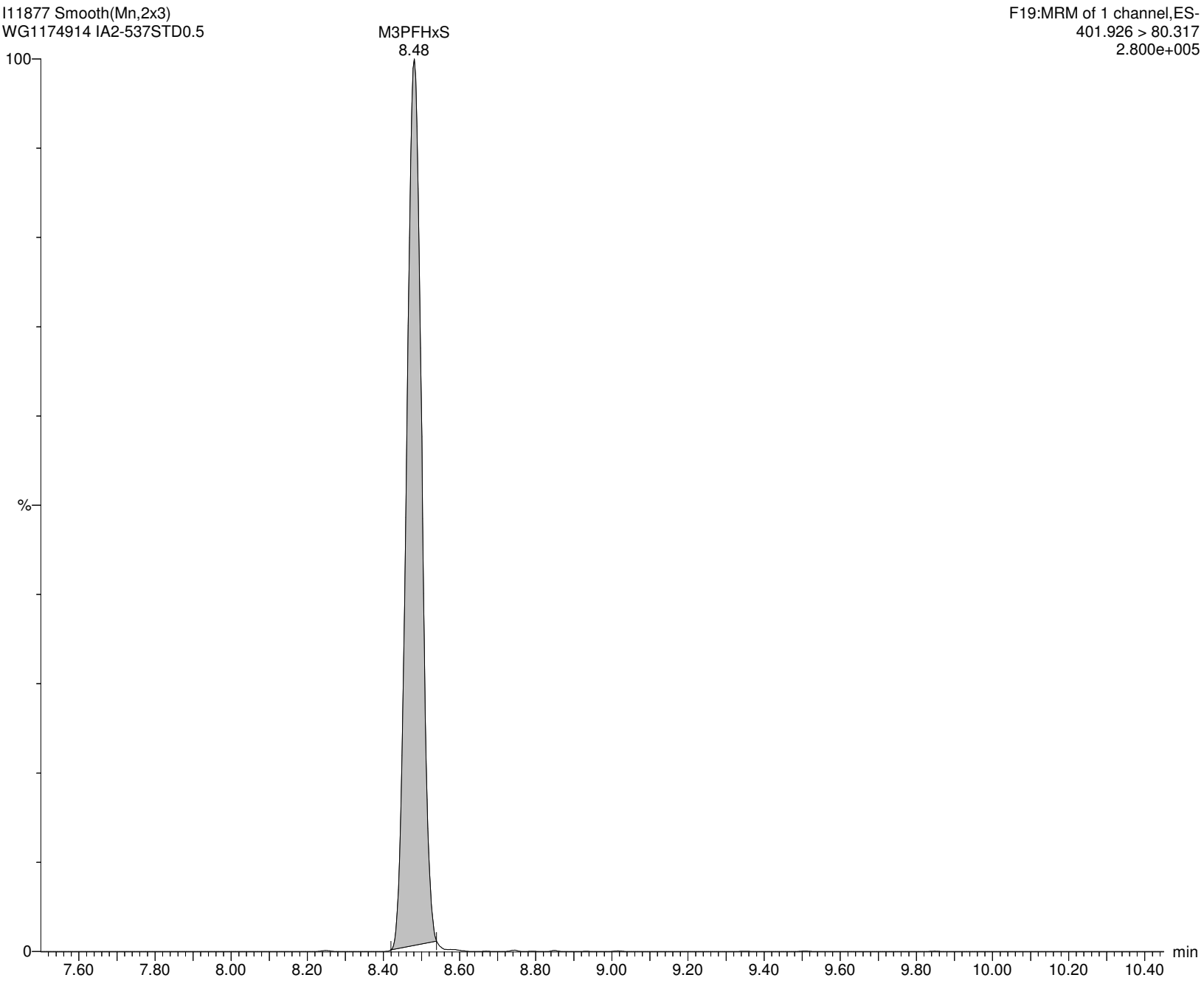
M3PFHxS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Name: I11877
ID: IA2-537STD0.5
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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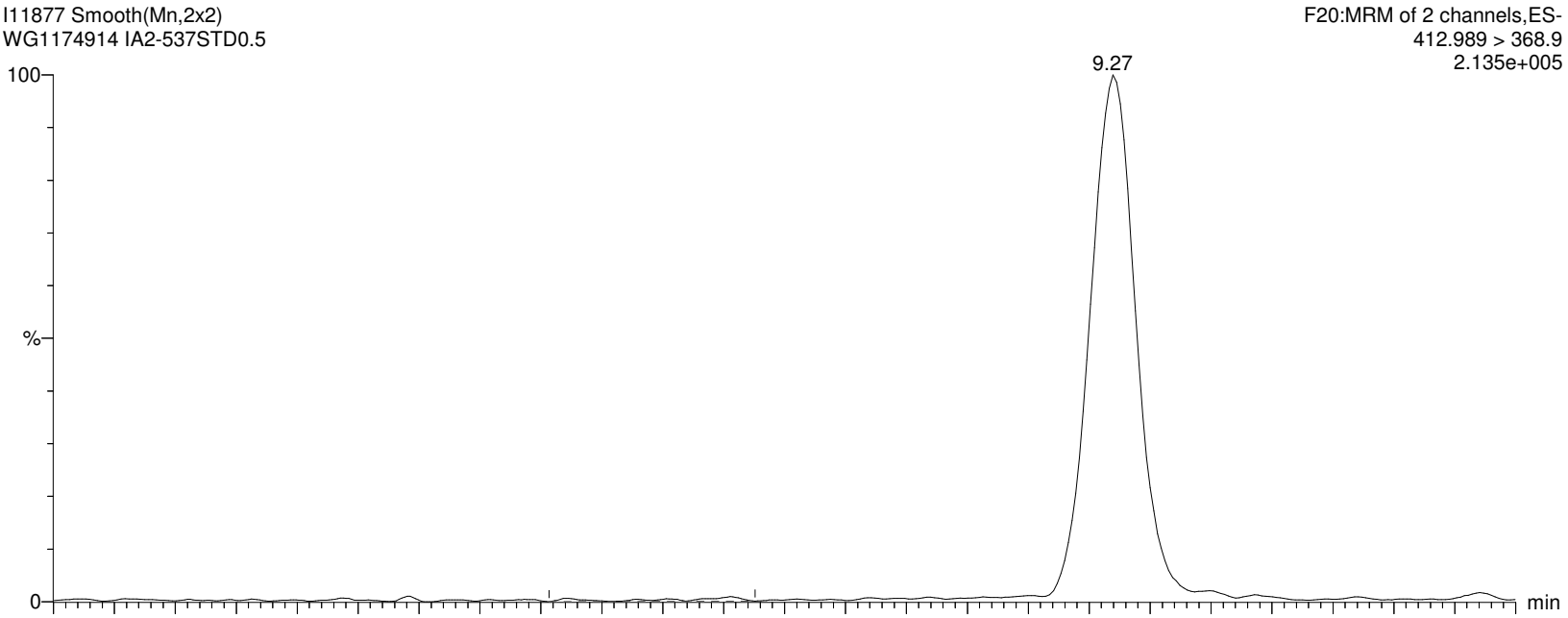

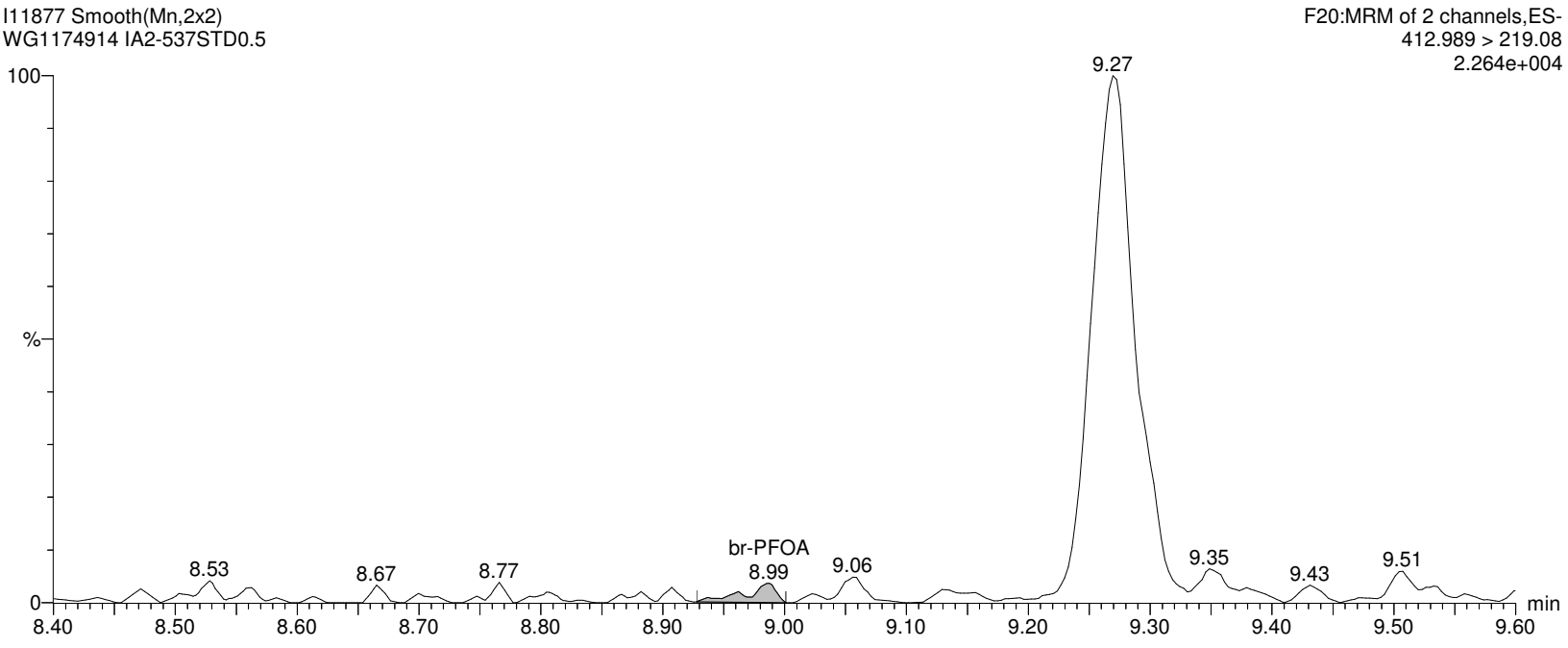

all concentration units in (ng/mL)

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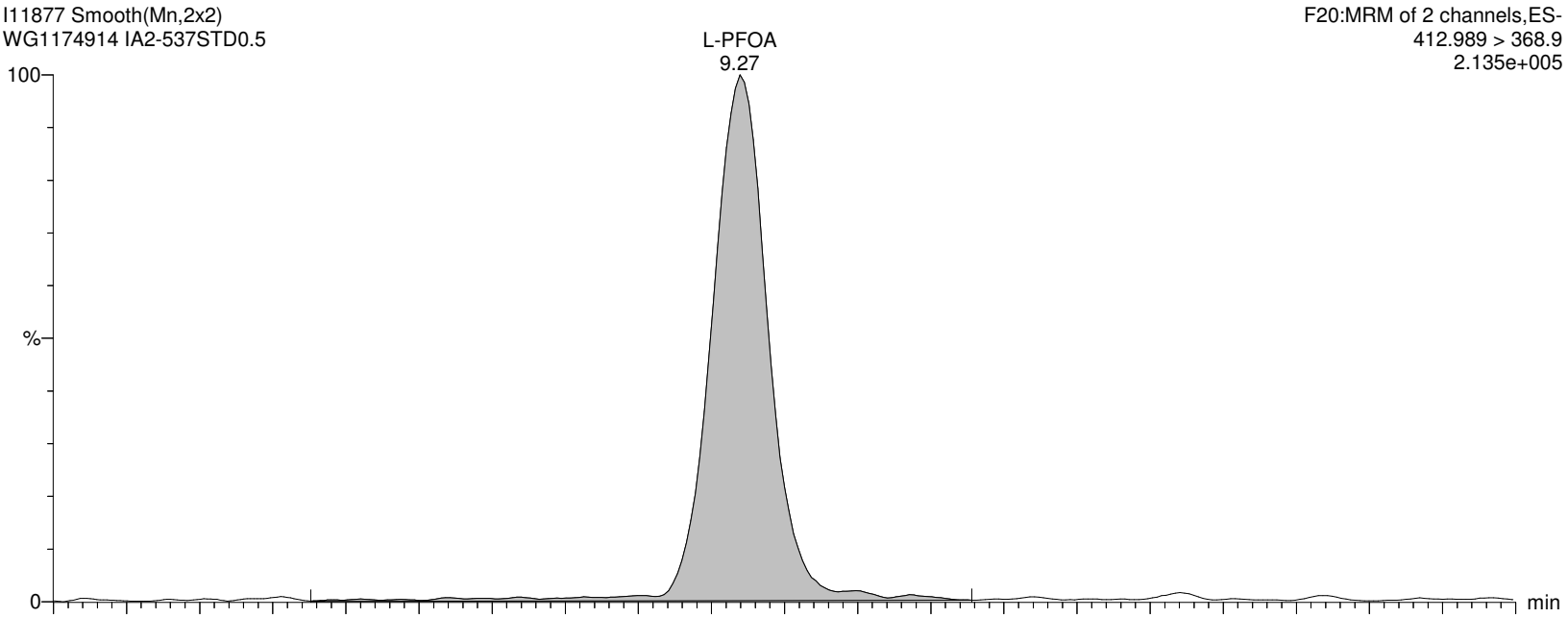

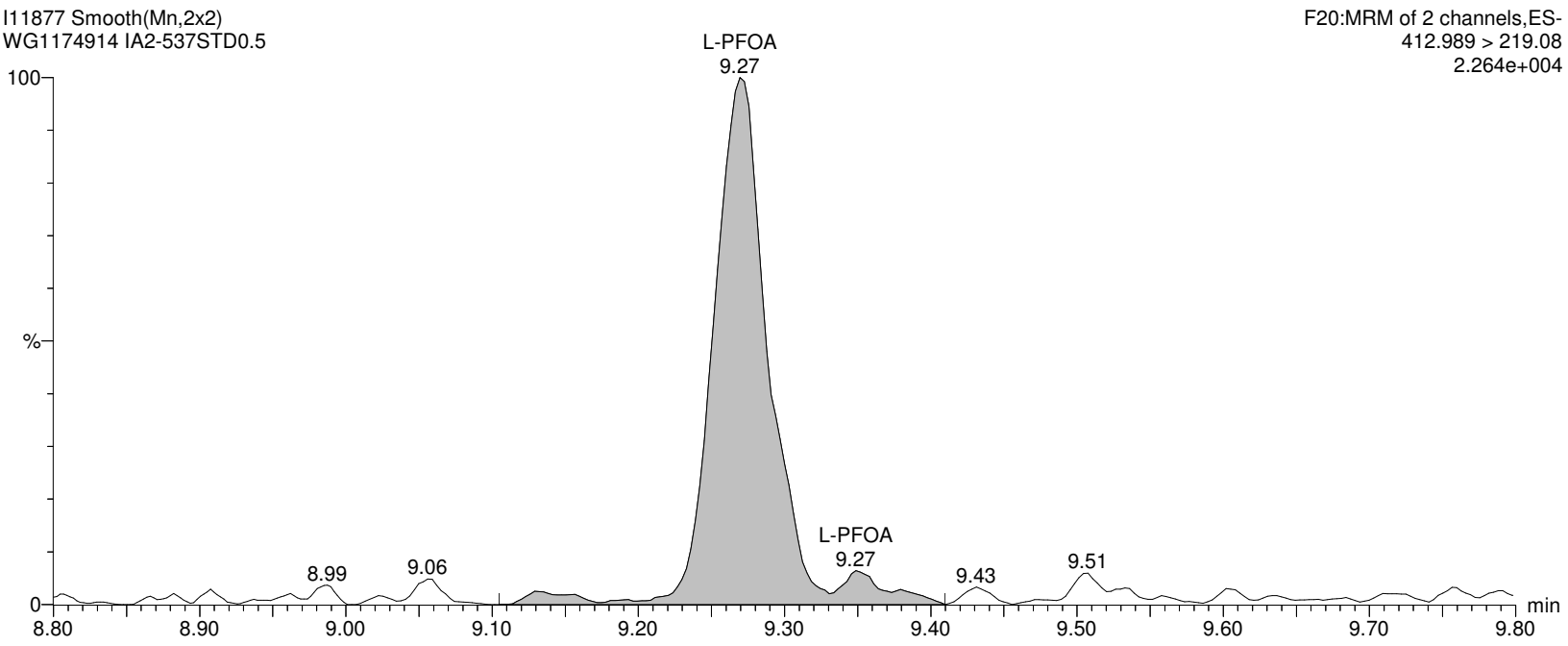

all concentration units in (ng/mL)

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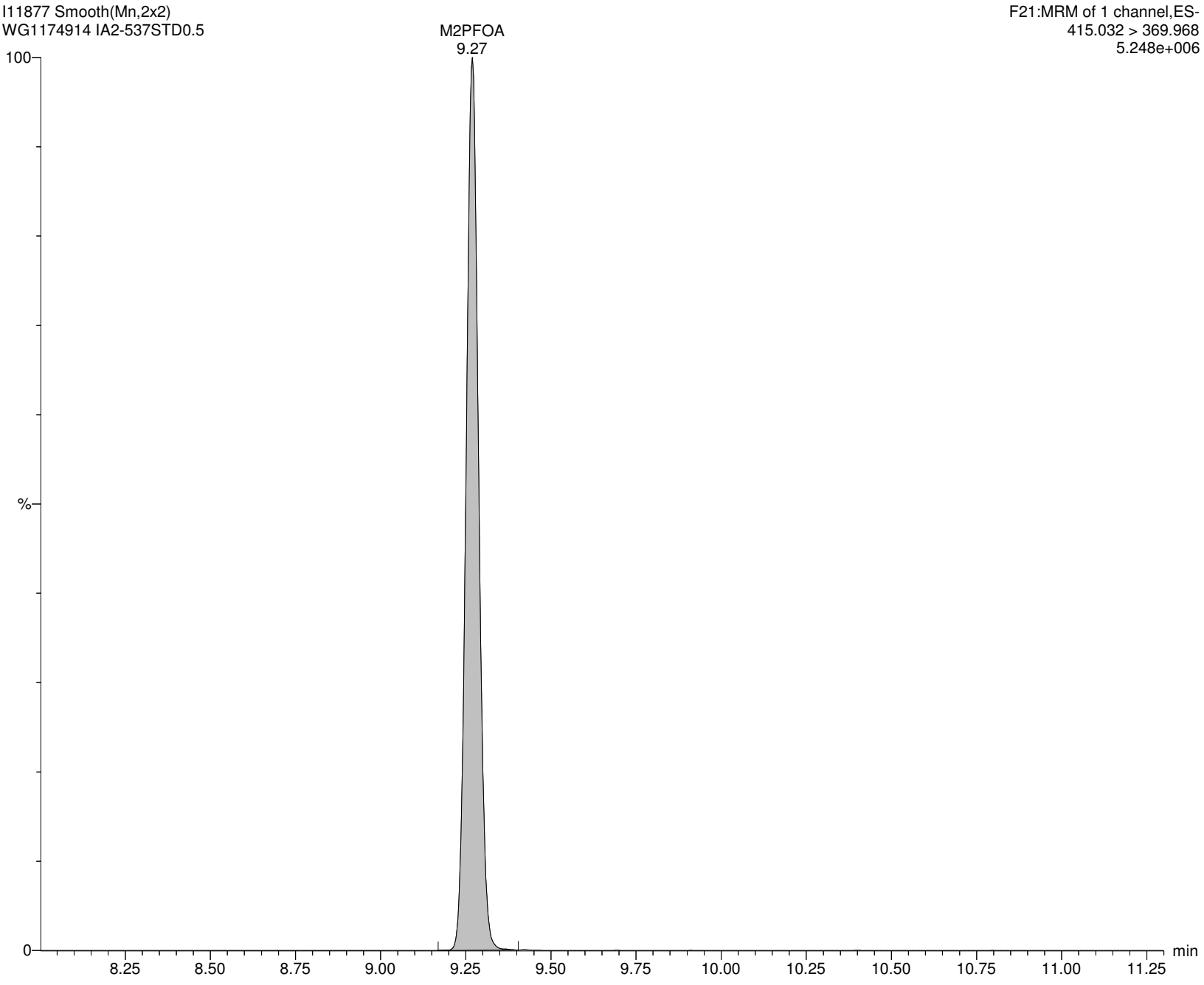

all concentration units in (ng/mL)

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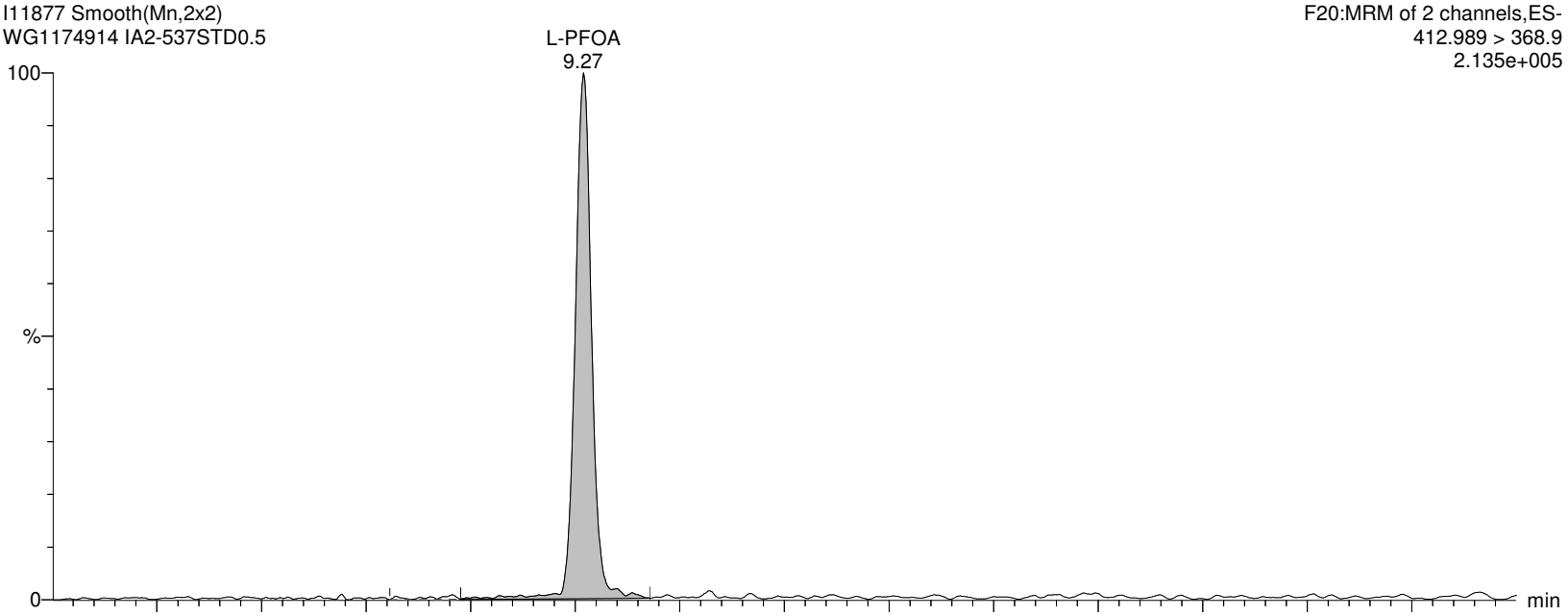

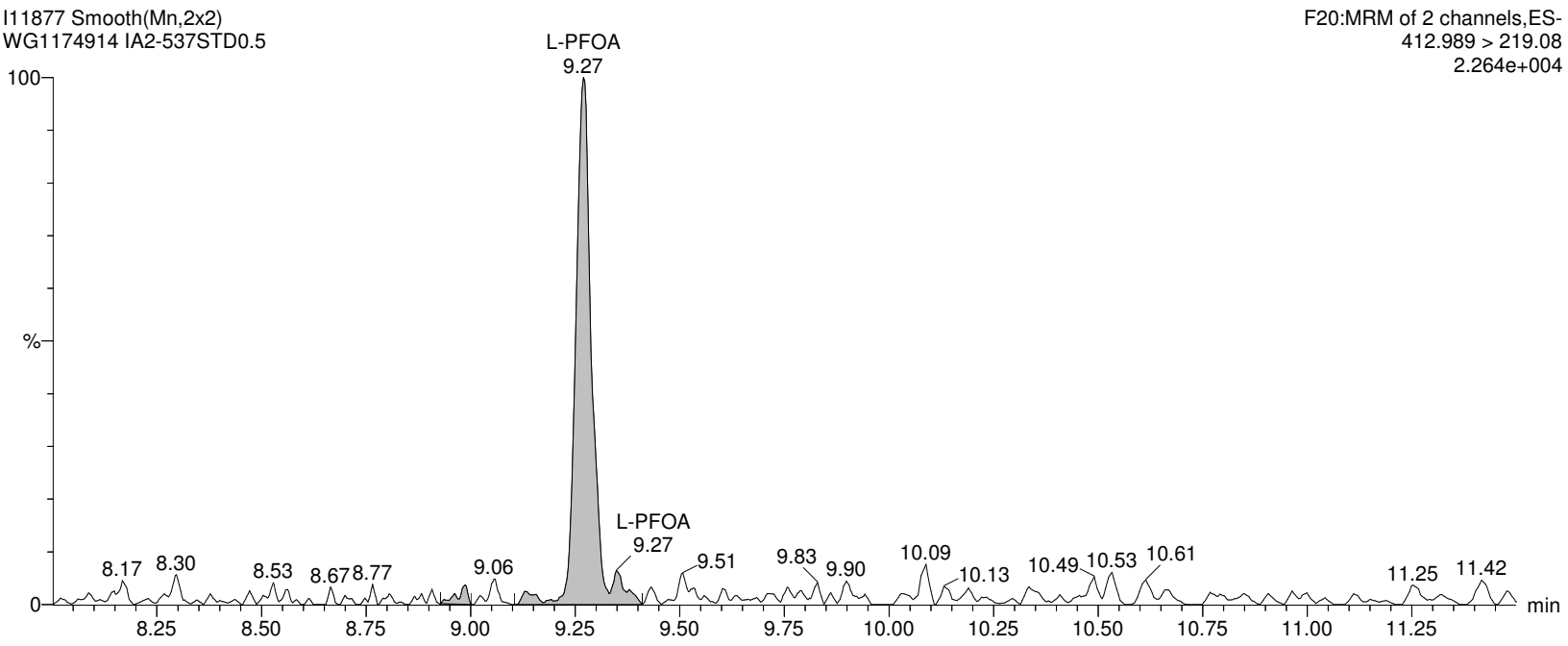

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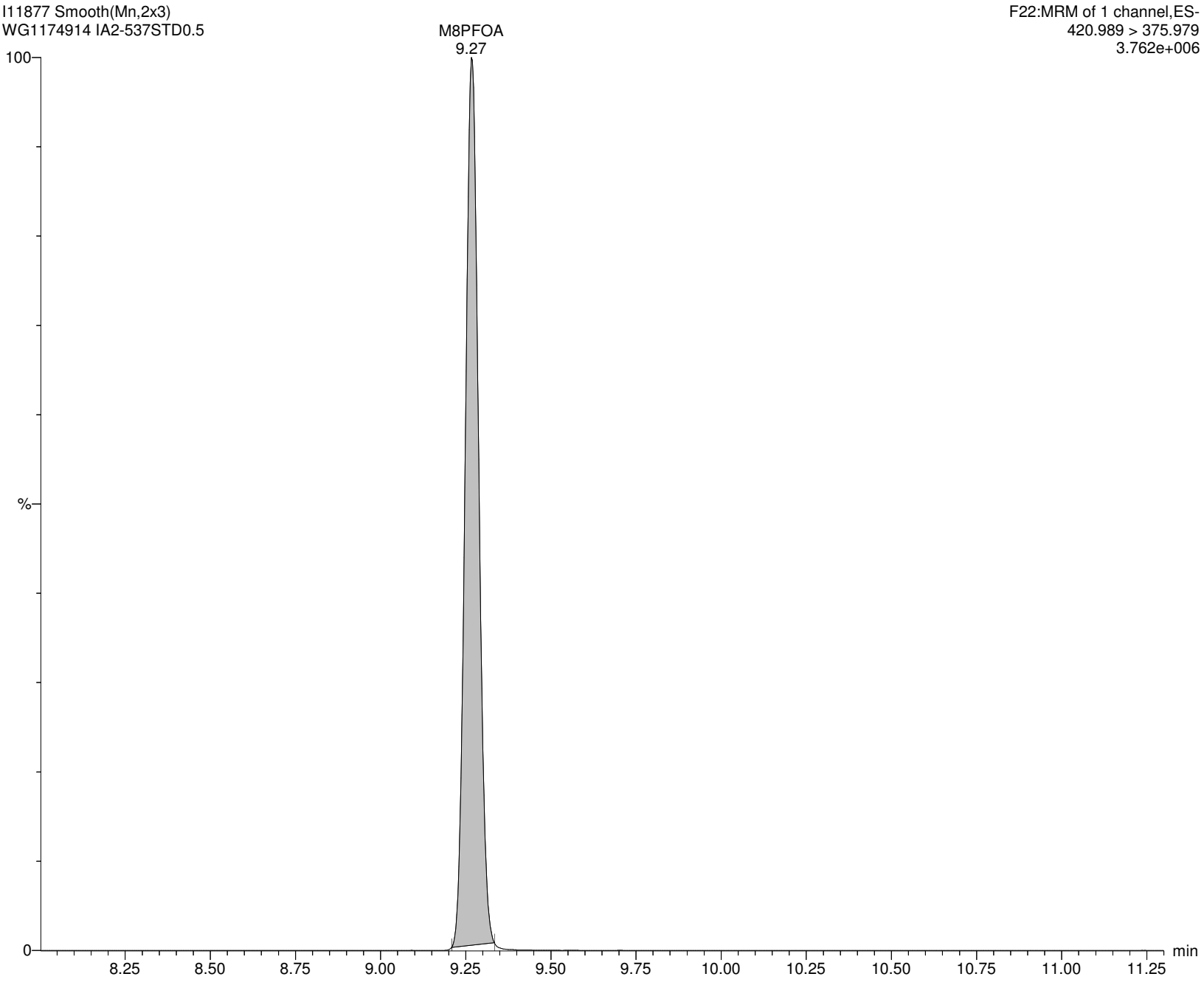

all concentration units in (ng/mL)

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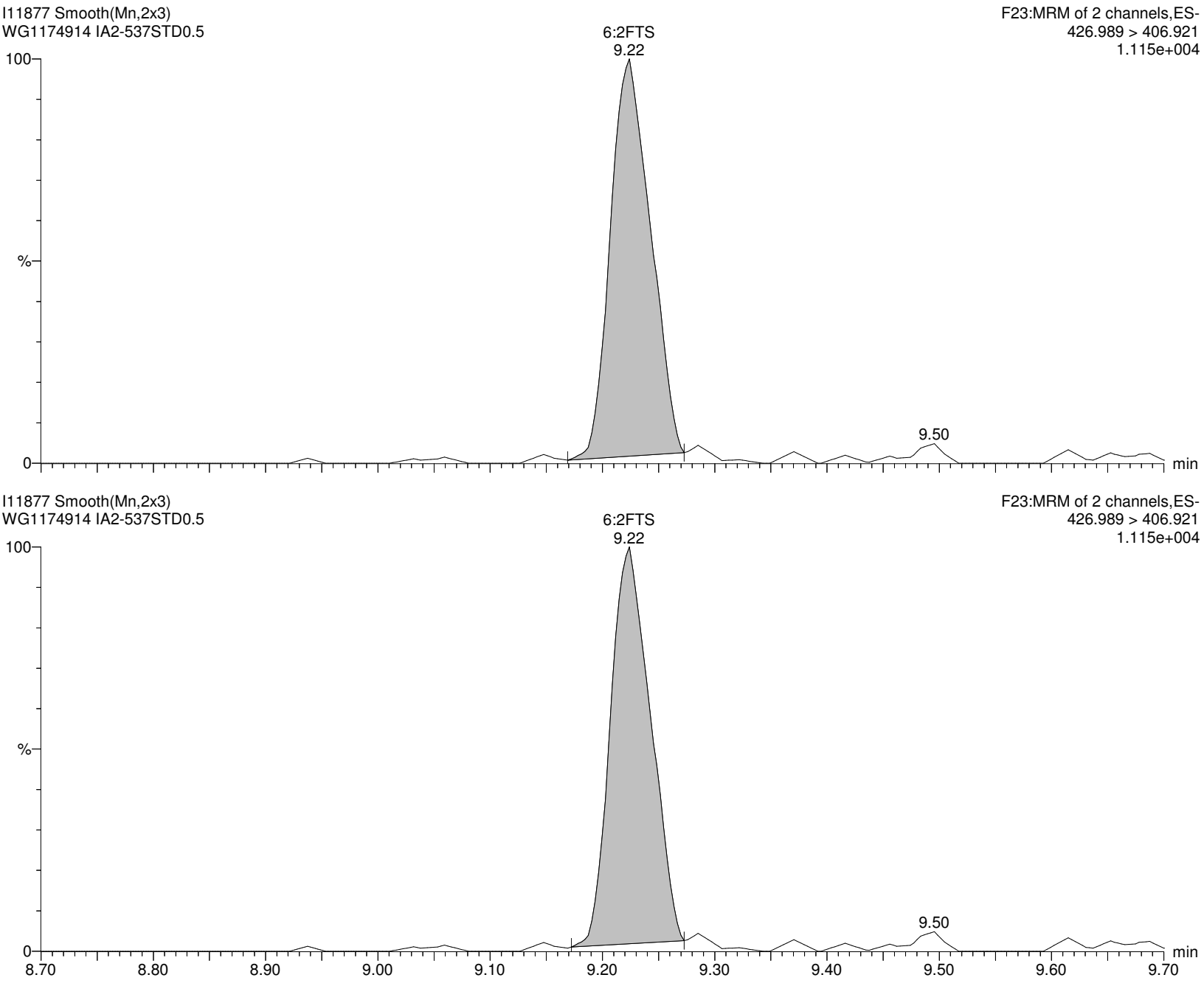

all concentration units in (ng/mL)

Alpha Analytical Inc.
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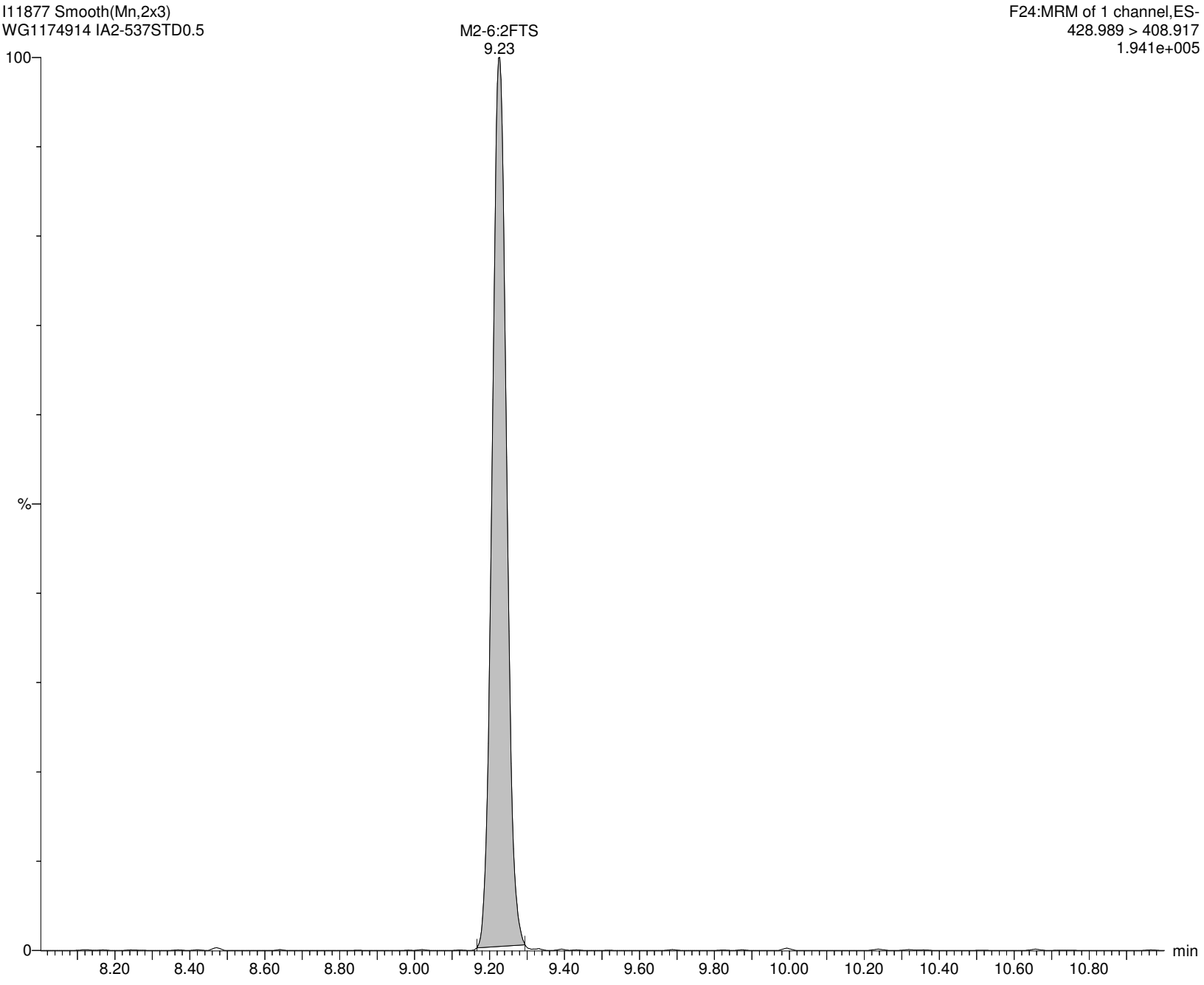
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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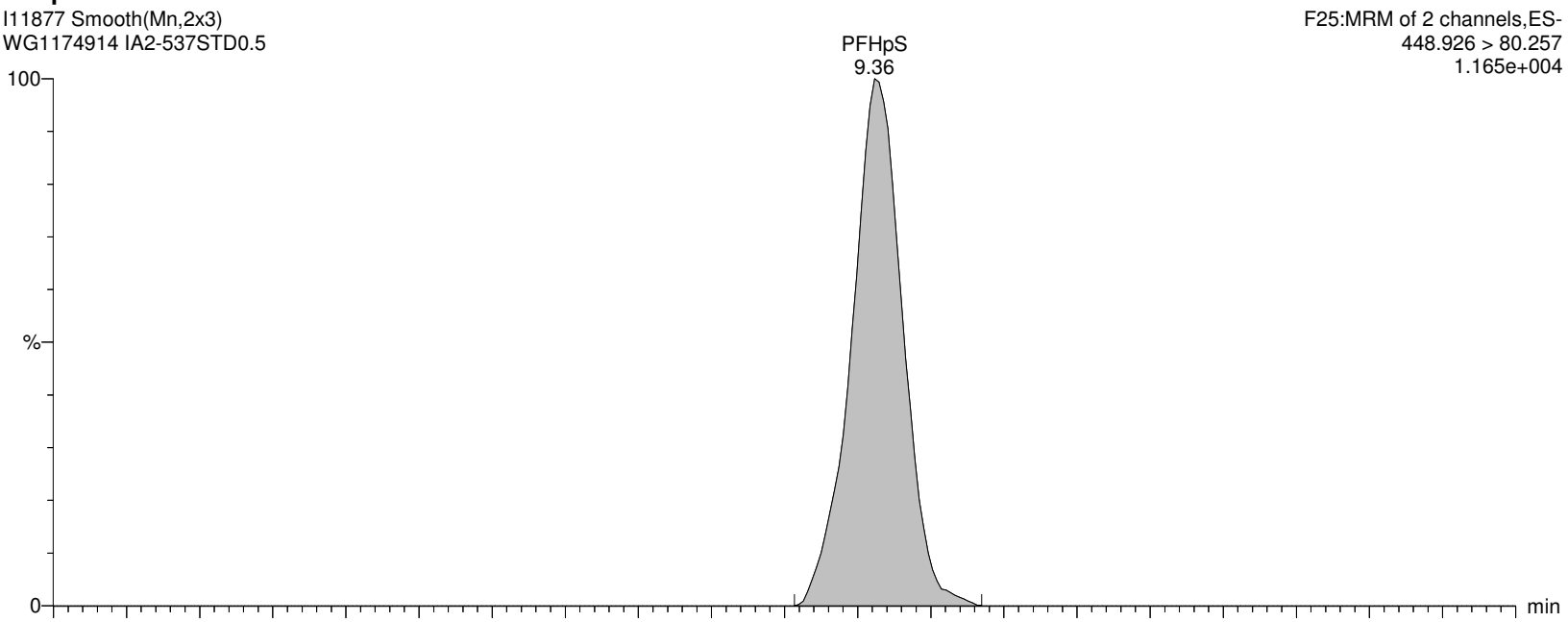

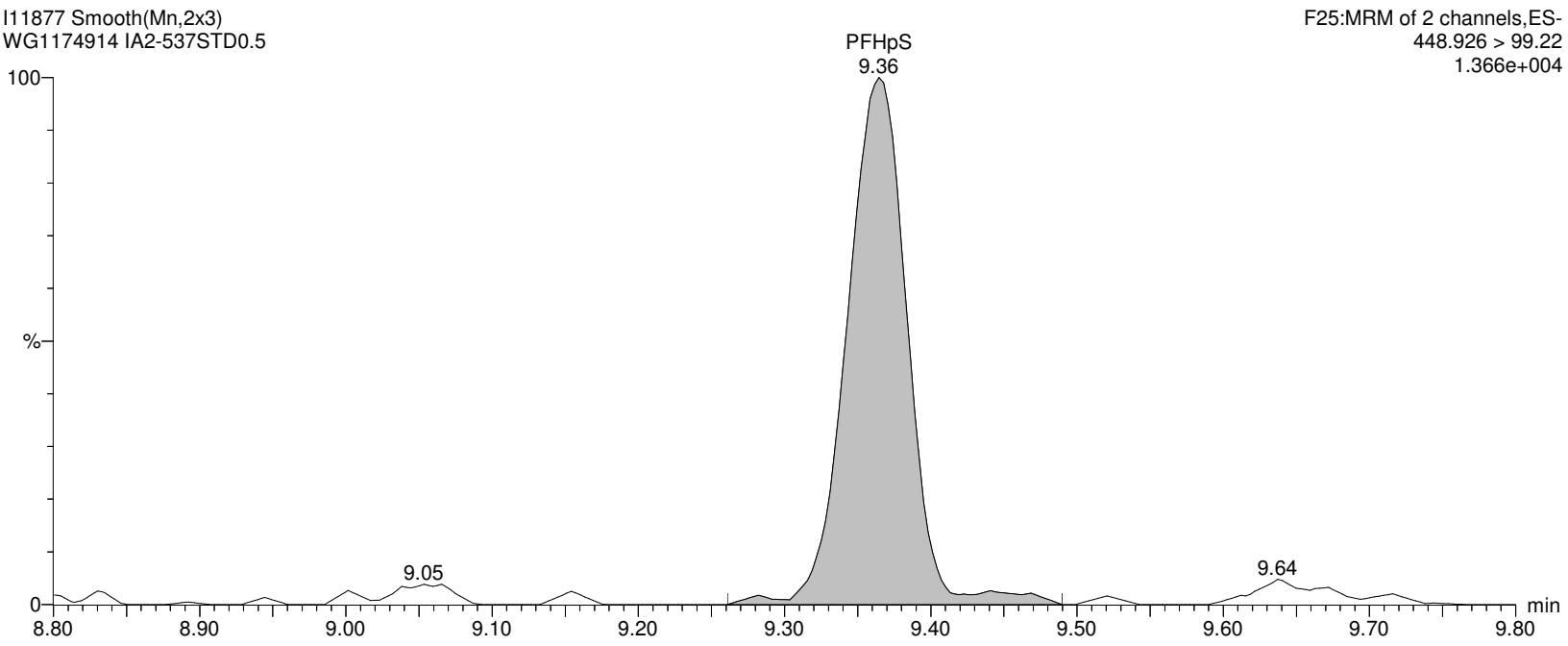

all concentration units in (ng/mL)

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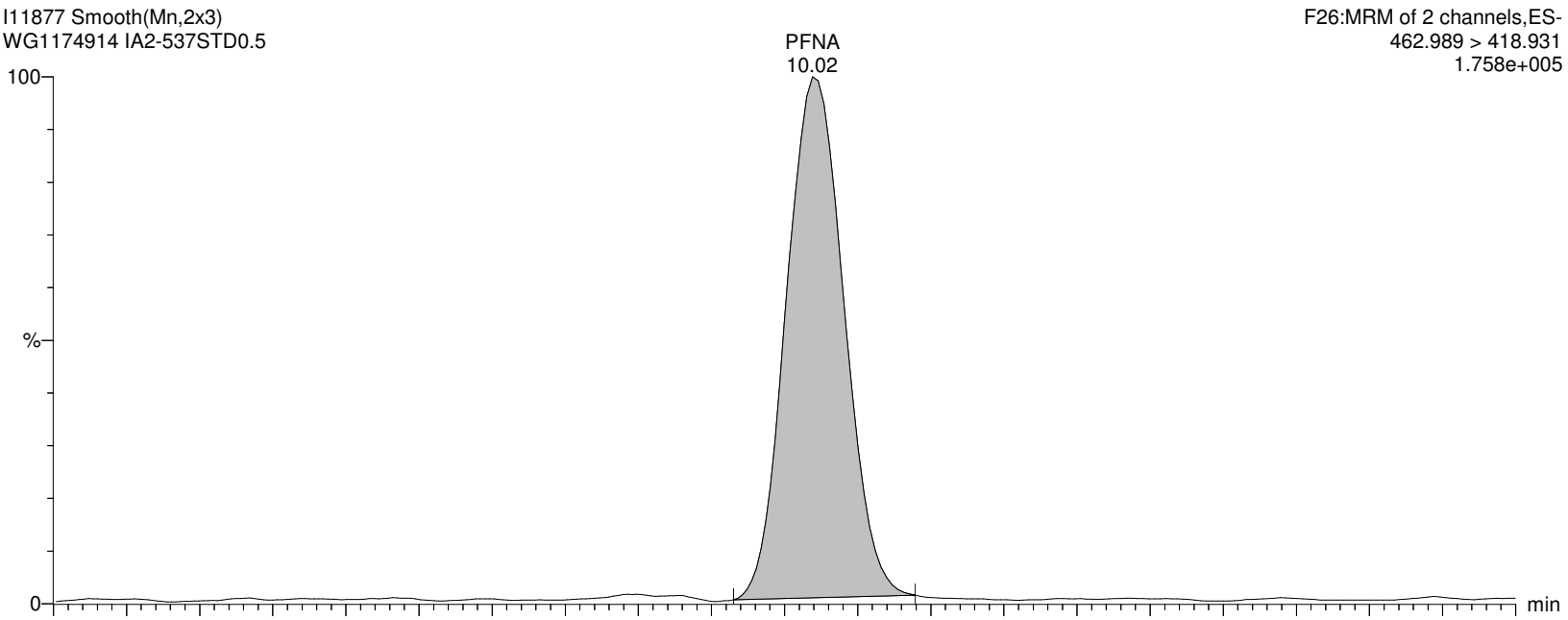

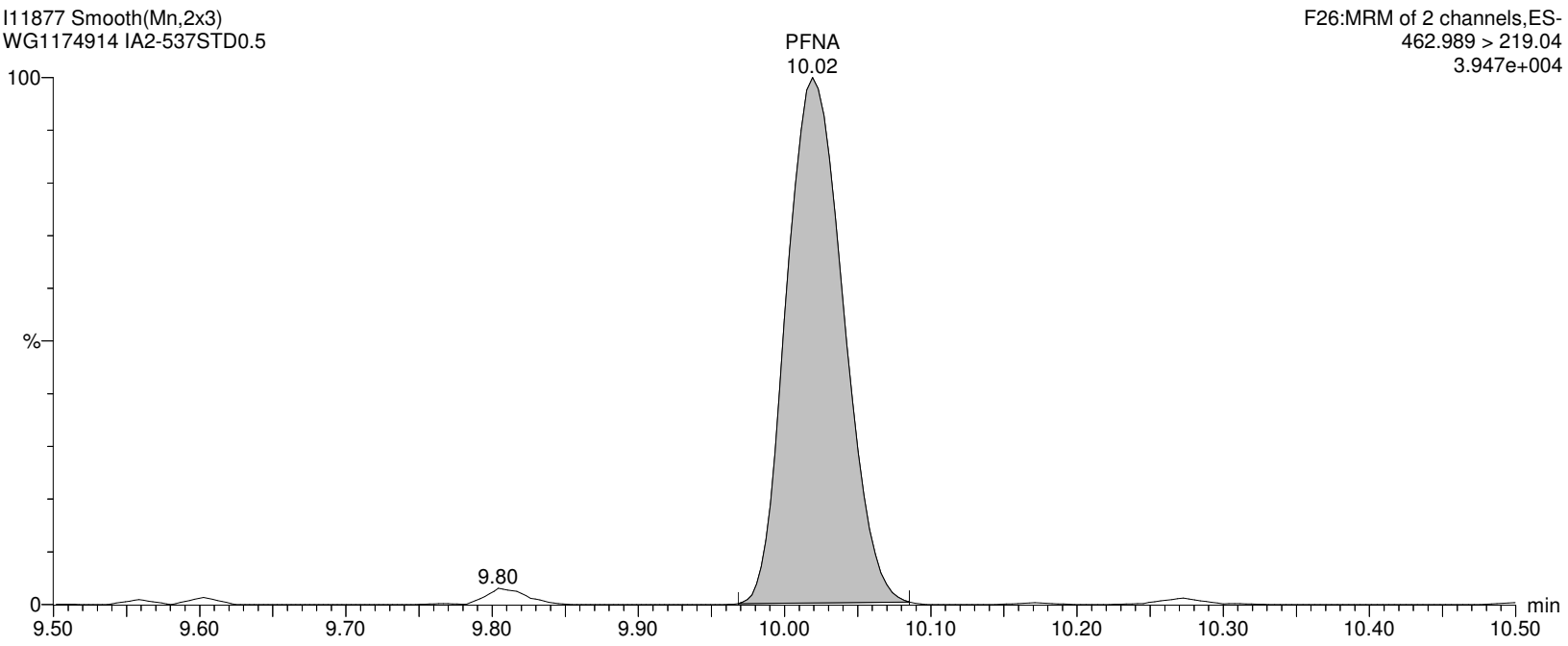

all concentration units in (ng/mL)

Alpha Analytical Inc.
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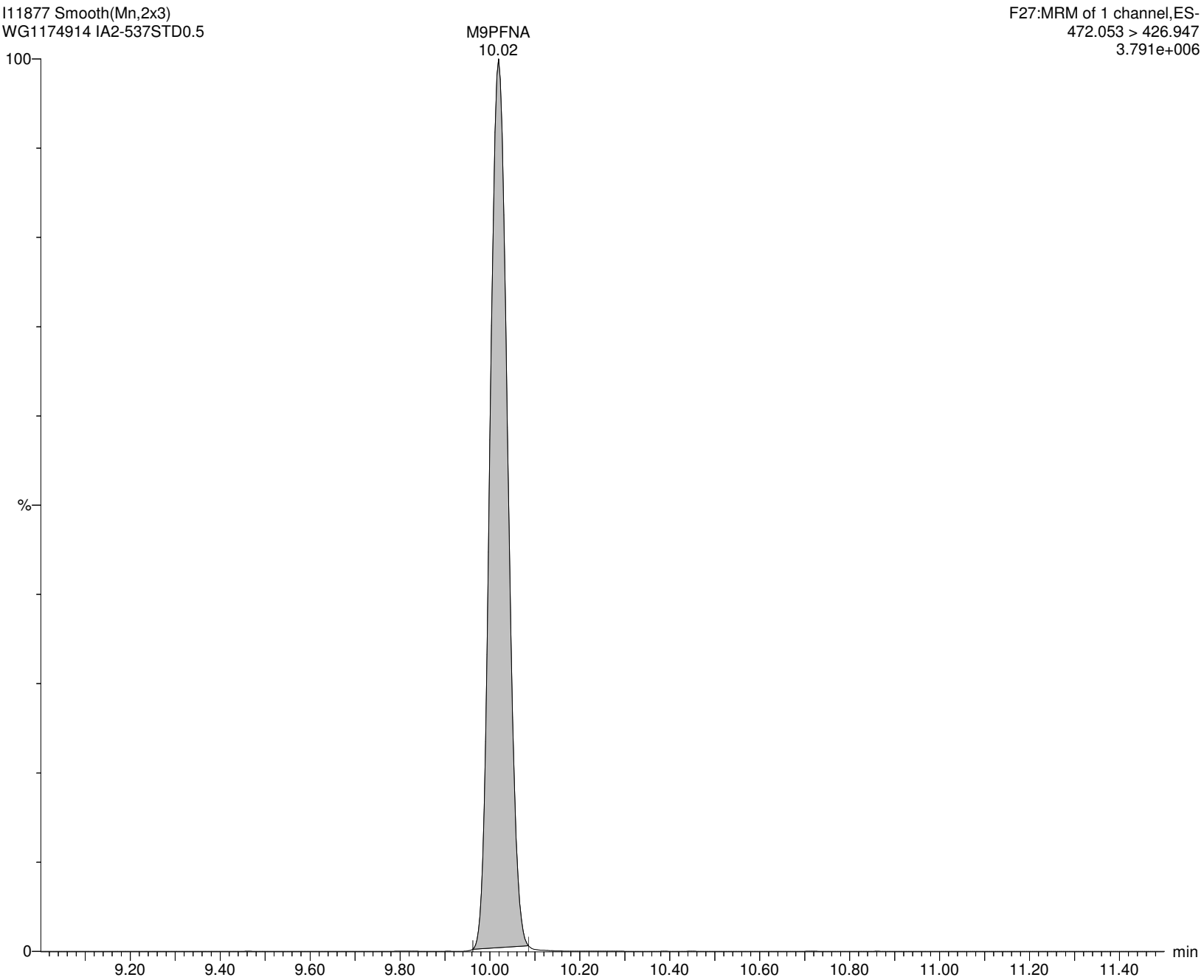

all concentration units in (ng/mL)

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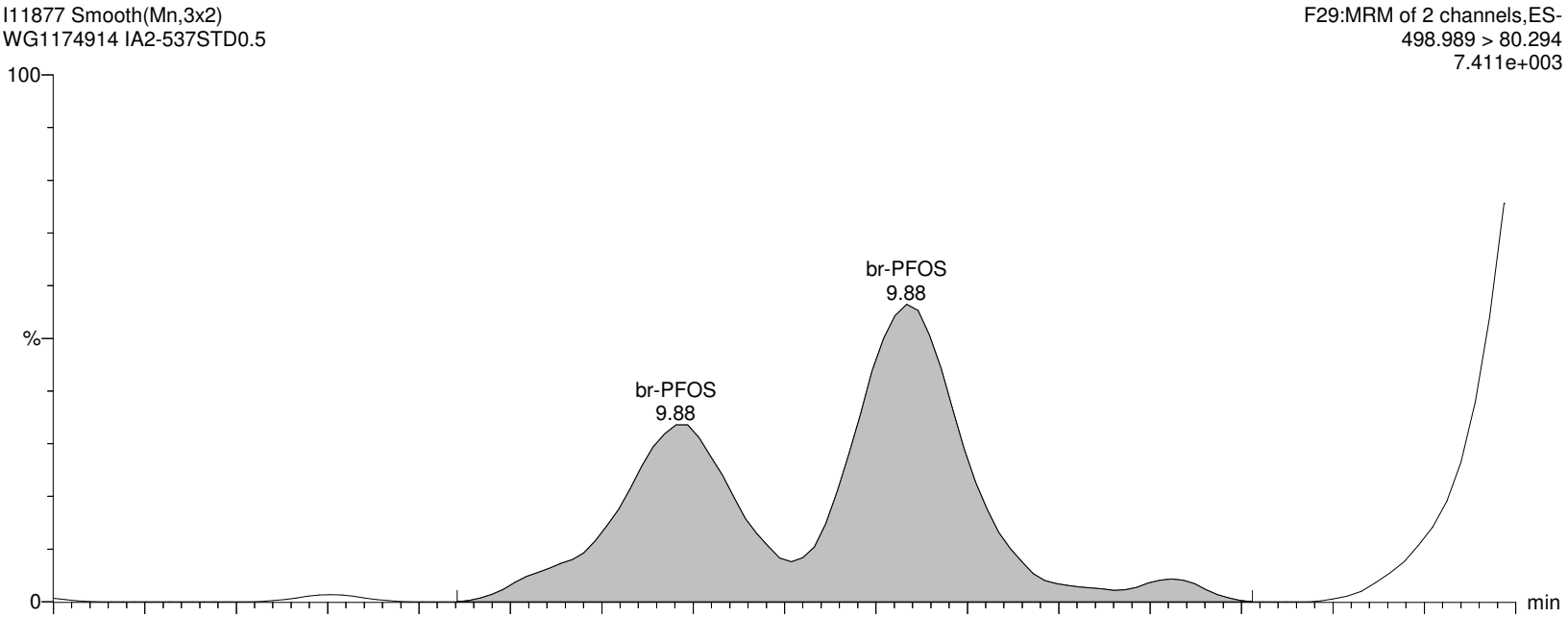

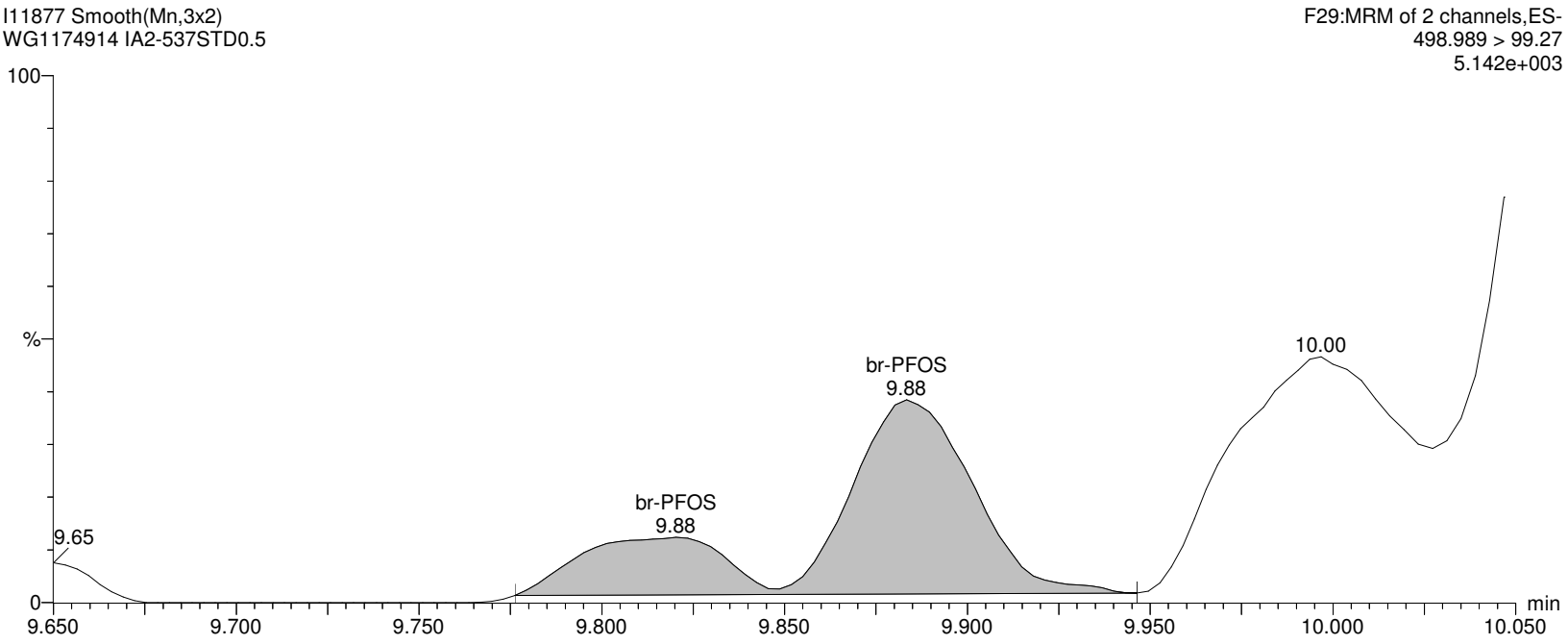

all concentration units in (ng/mL)

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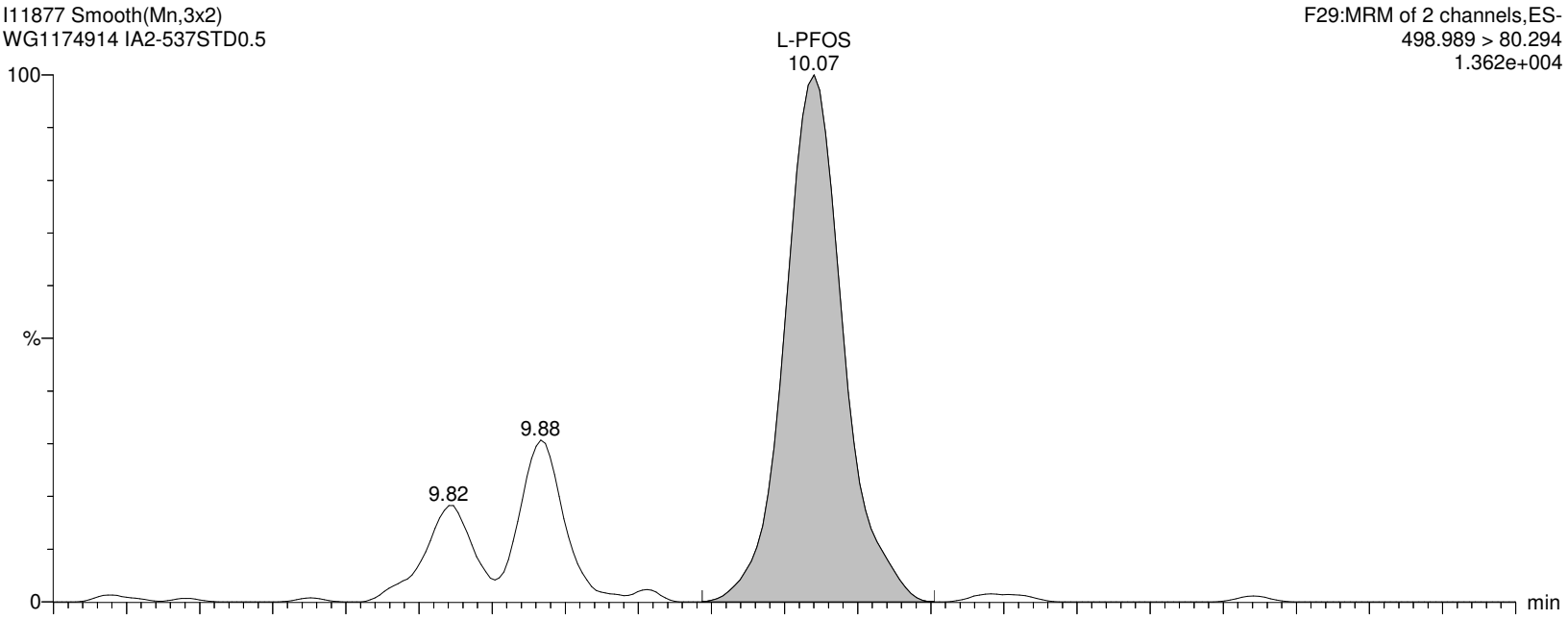

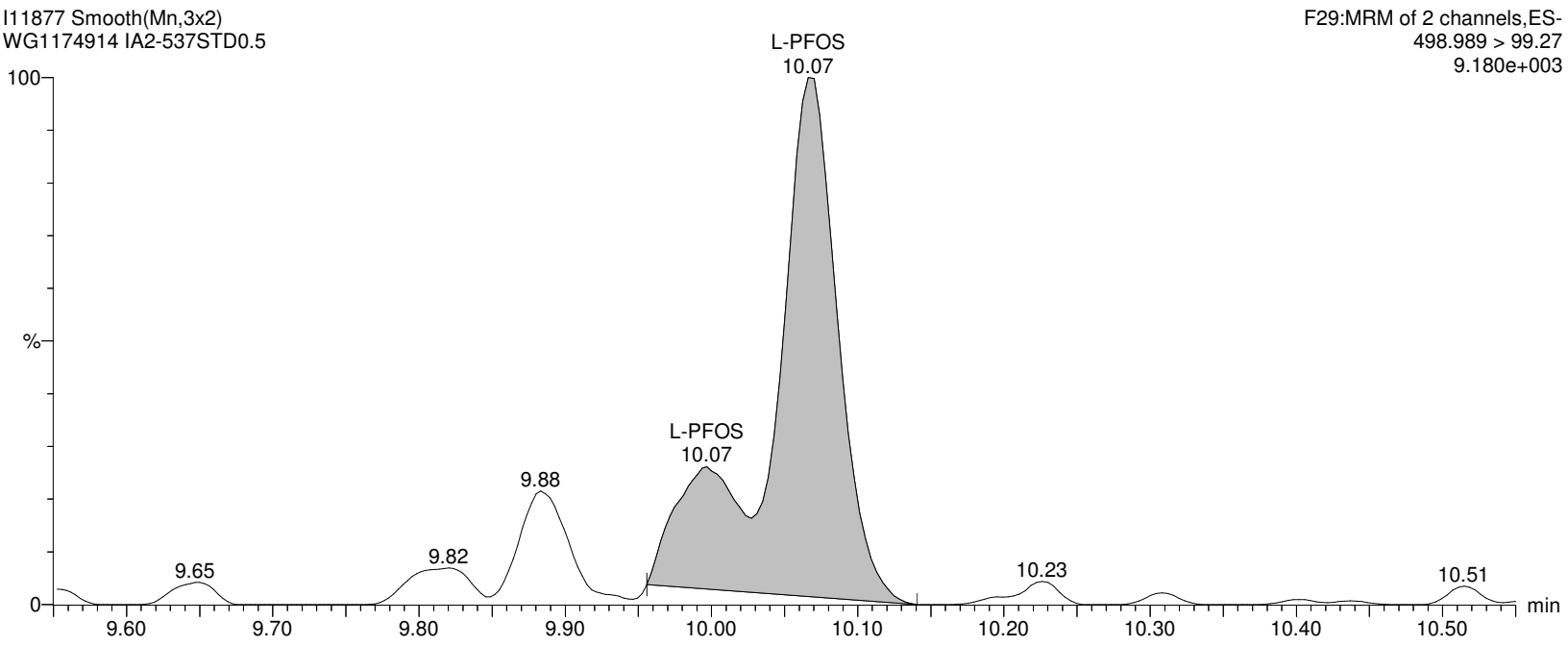

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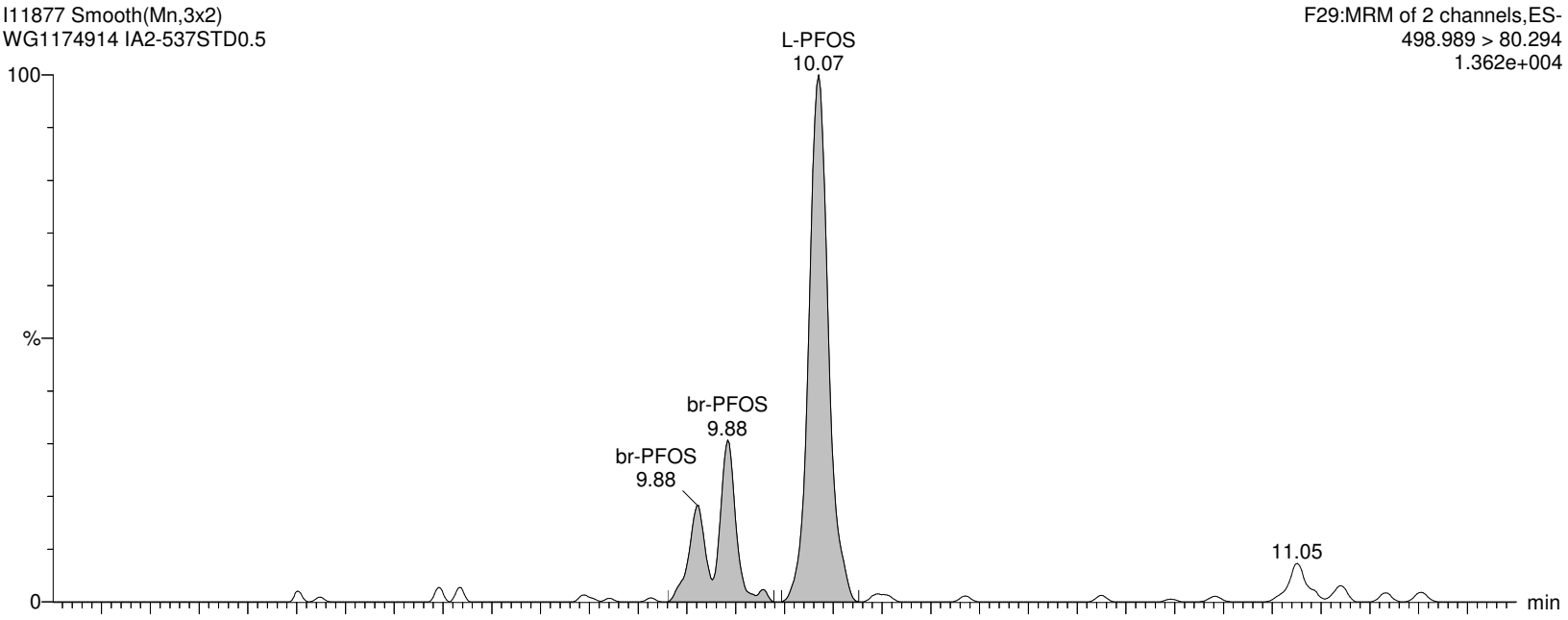

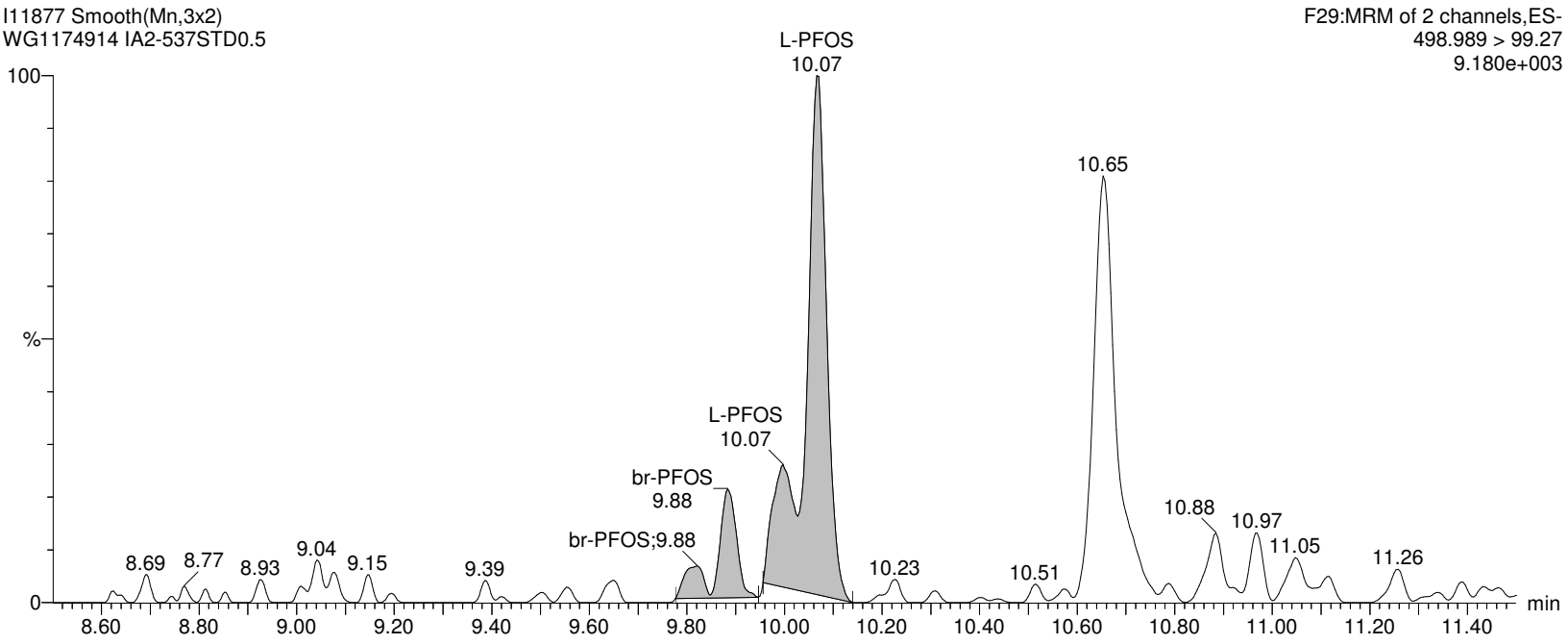

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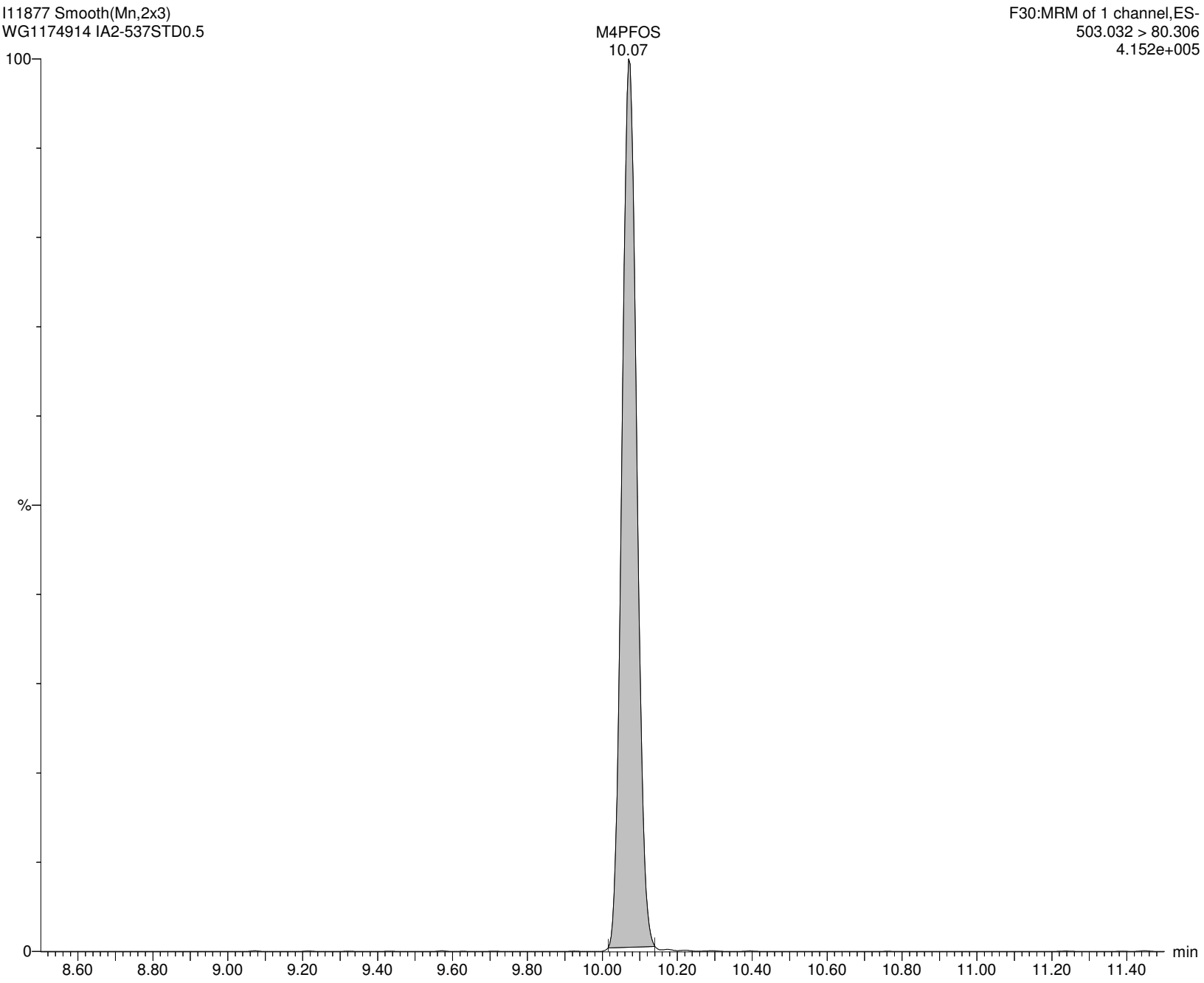

all concentration units in (ng/mL)

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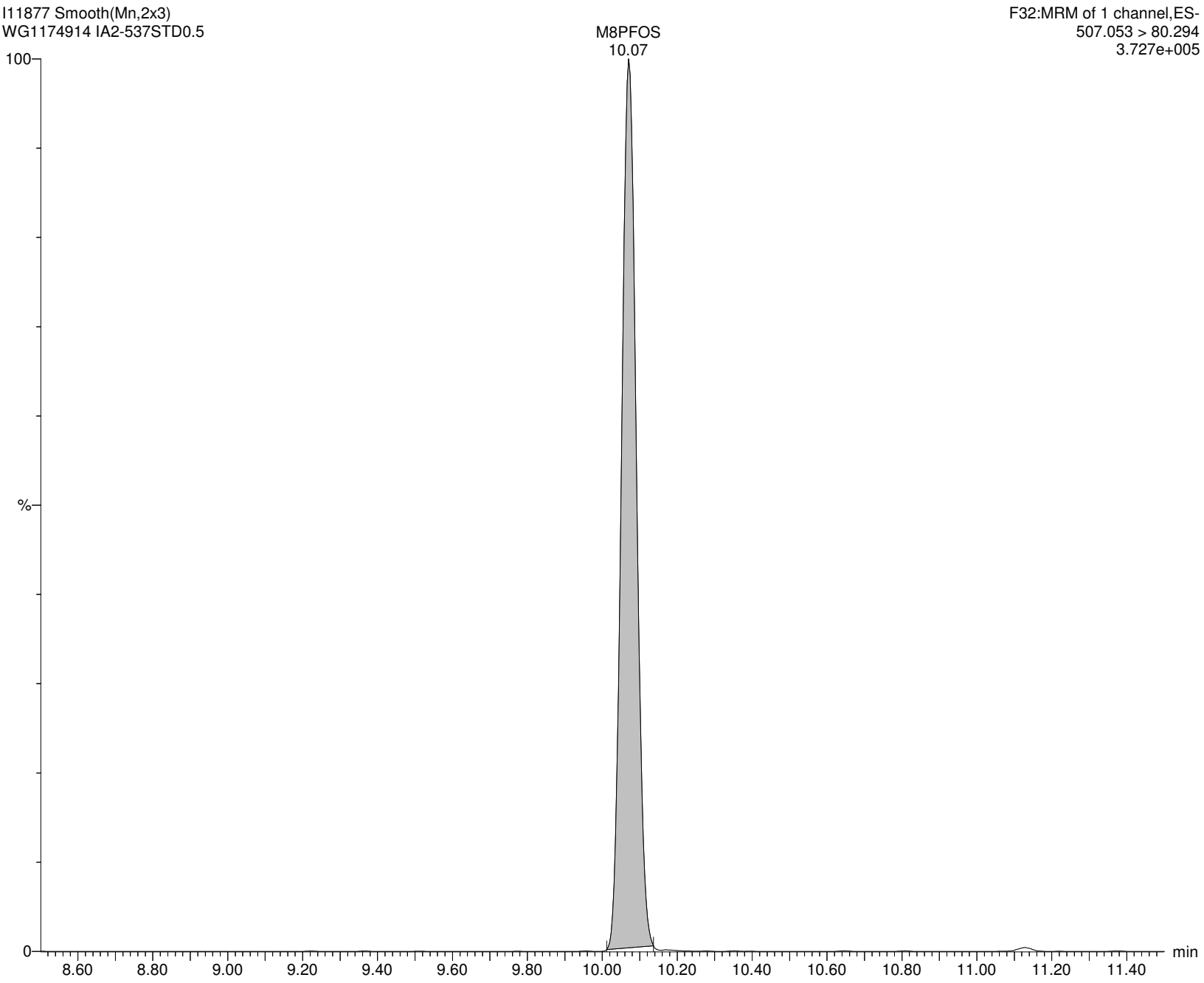
M8PFOS



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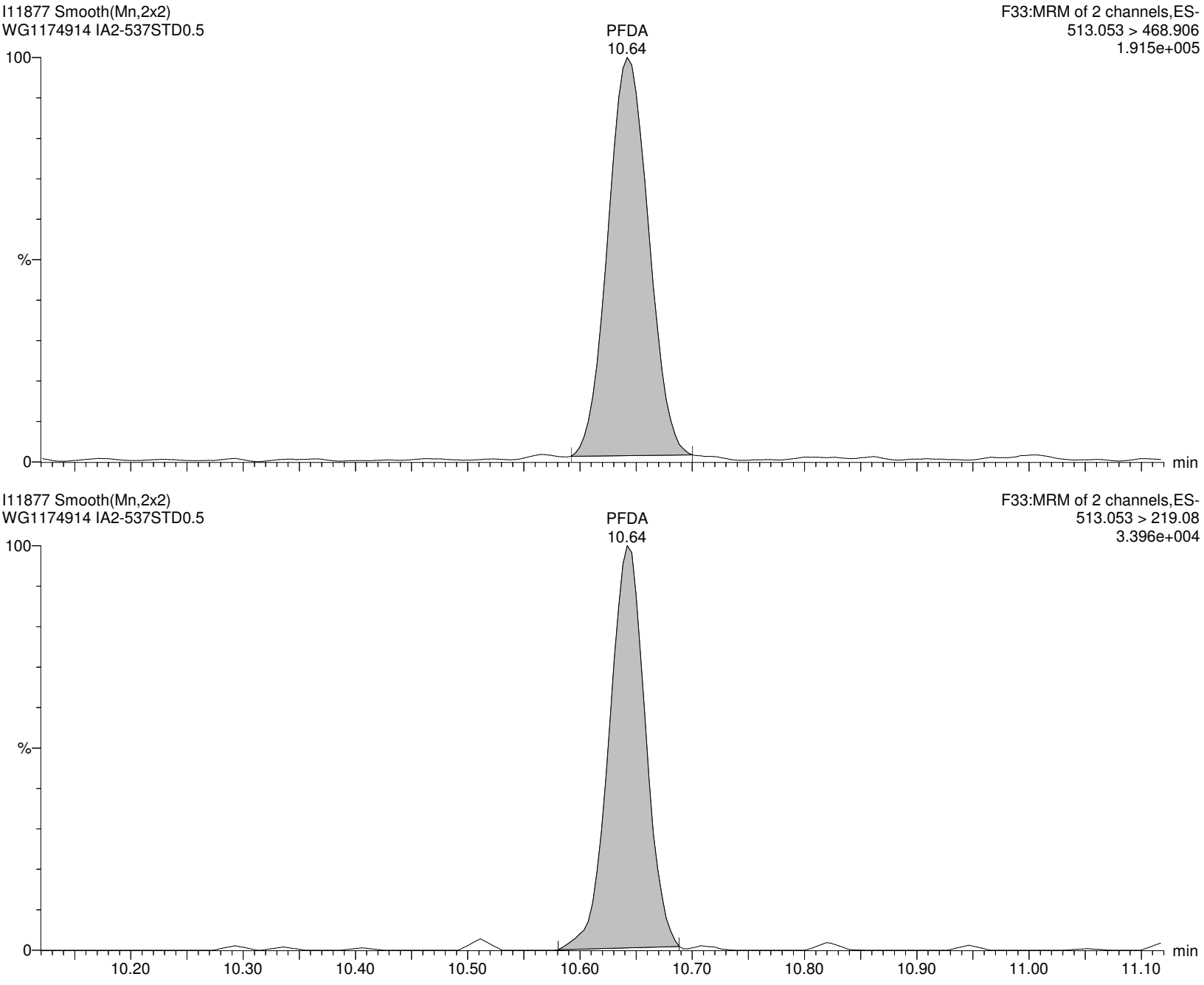

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Name: I11877
ID: IA2-537STD0.5
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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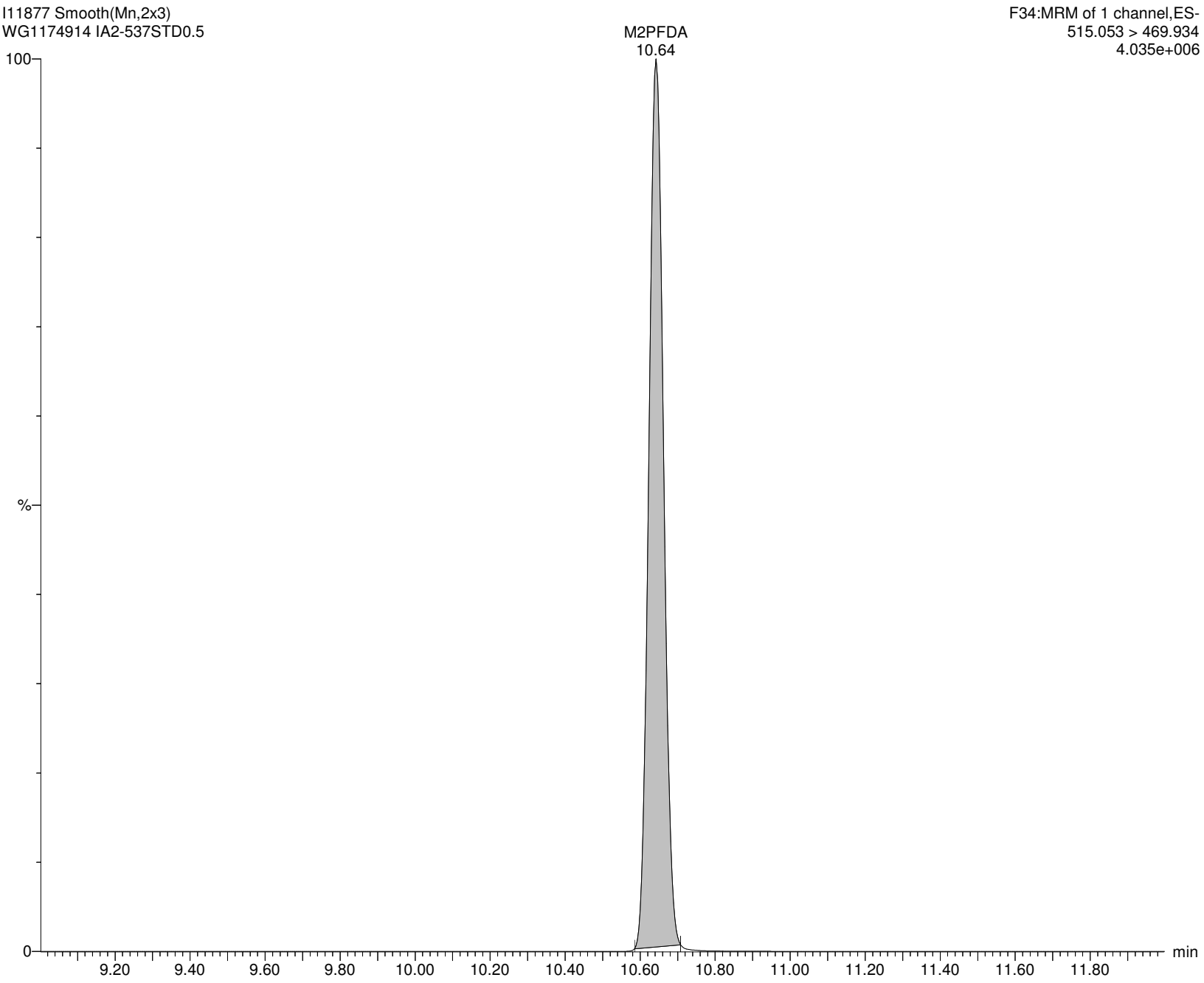

all concentration units in (ng/mL)

Alpha Analytical Inc.
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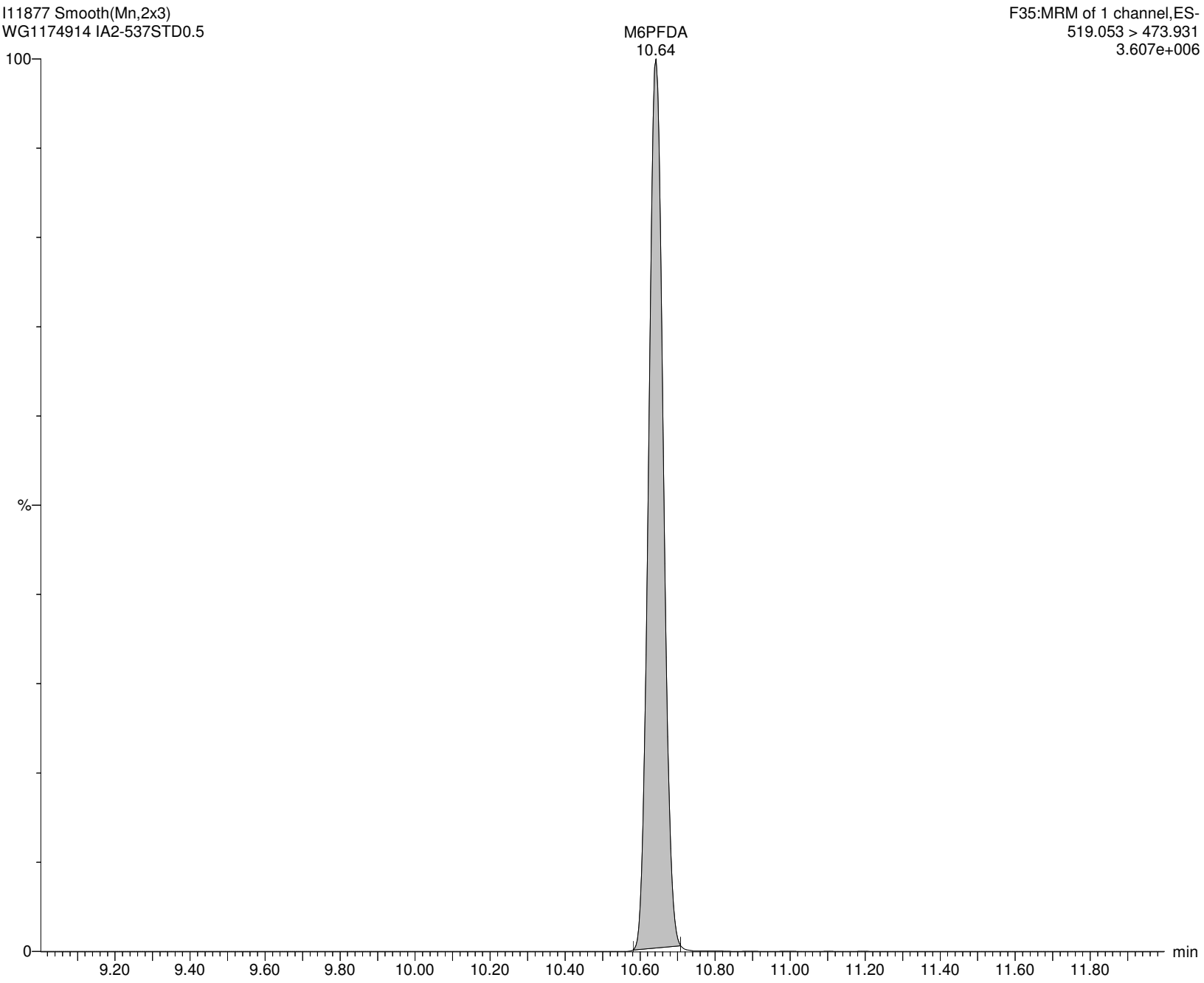

all concentration units in (ng/mL)

Alpha Analytical Inc.
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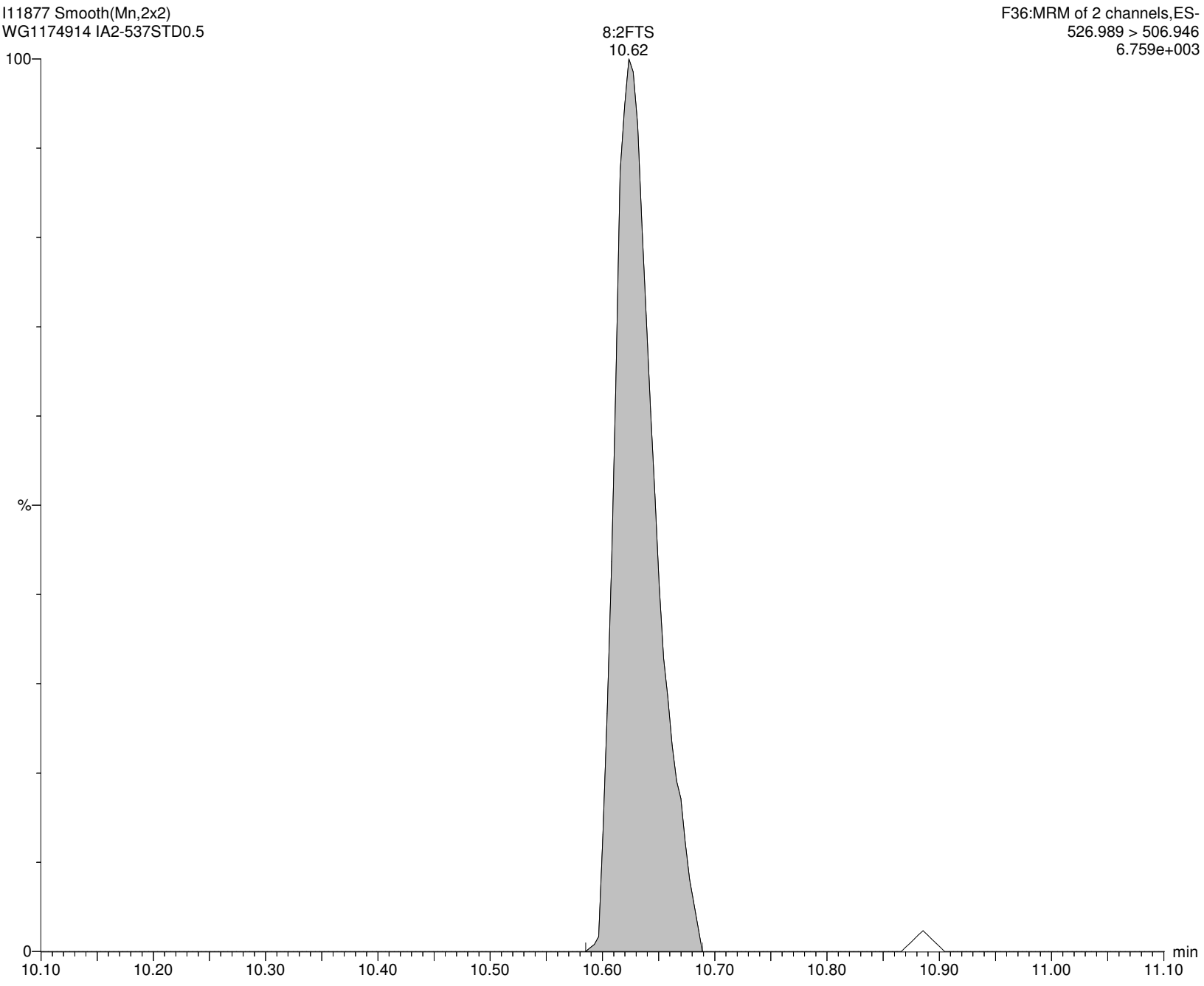

all concentration units in (ng/mL)

Alpha Analytical Inc.
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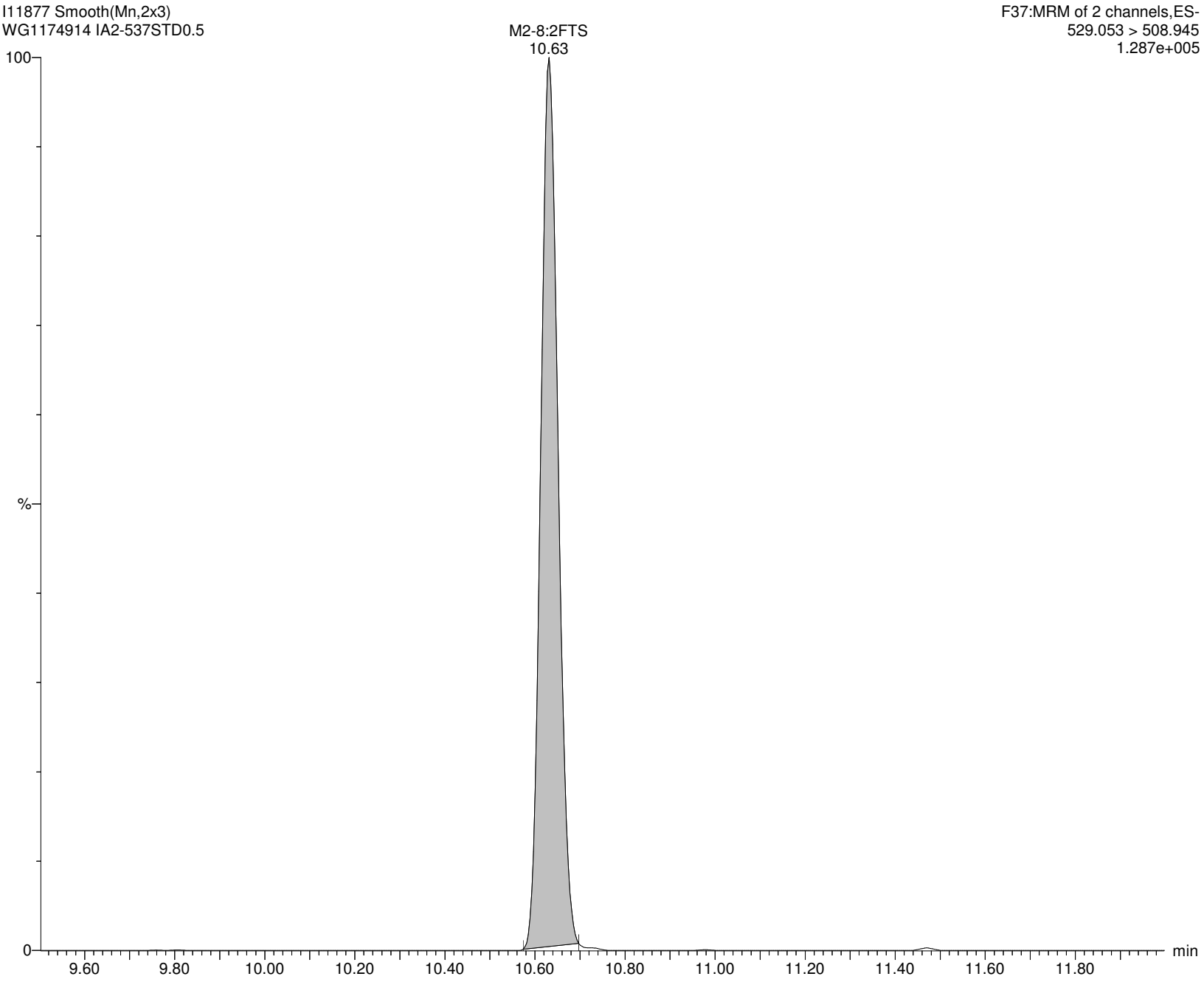

all concentration units in (ng/mL)

Alpha Analytical Inc.
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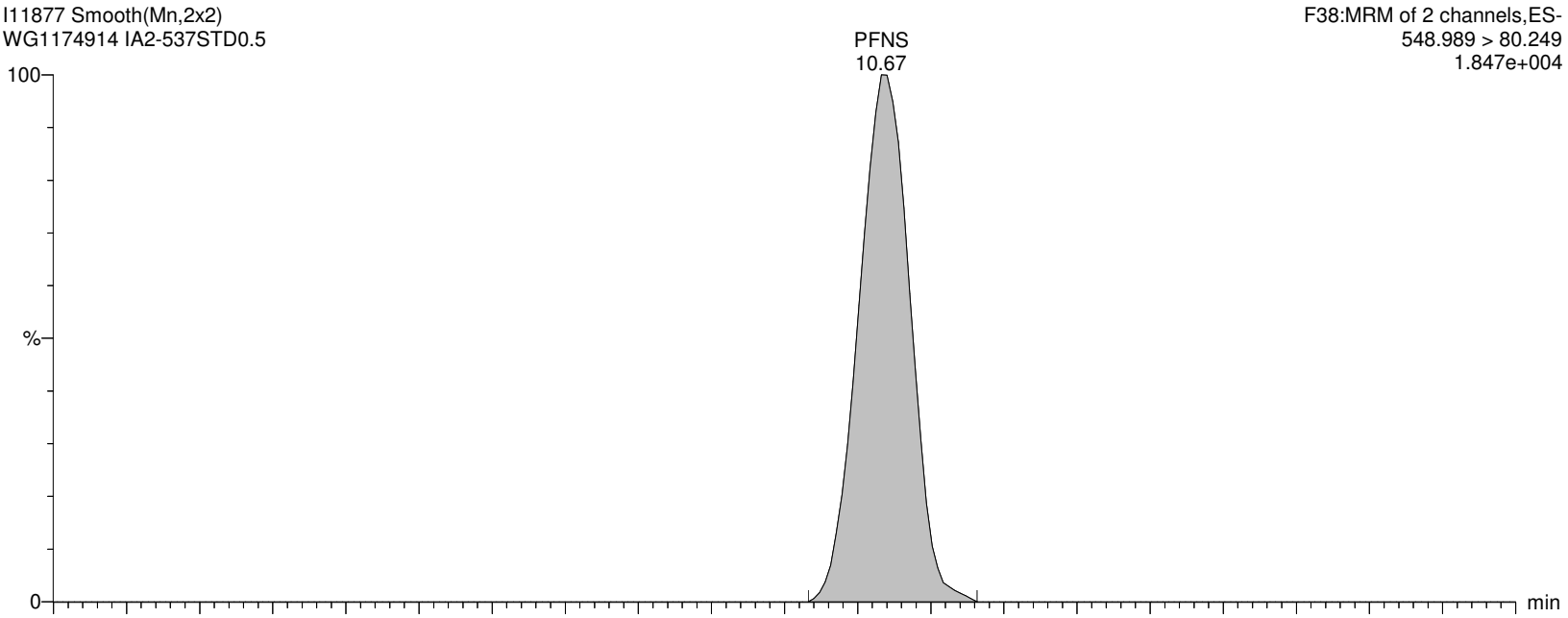

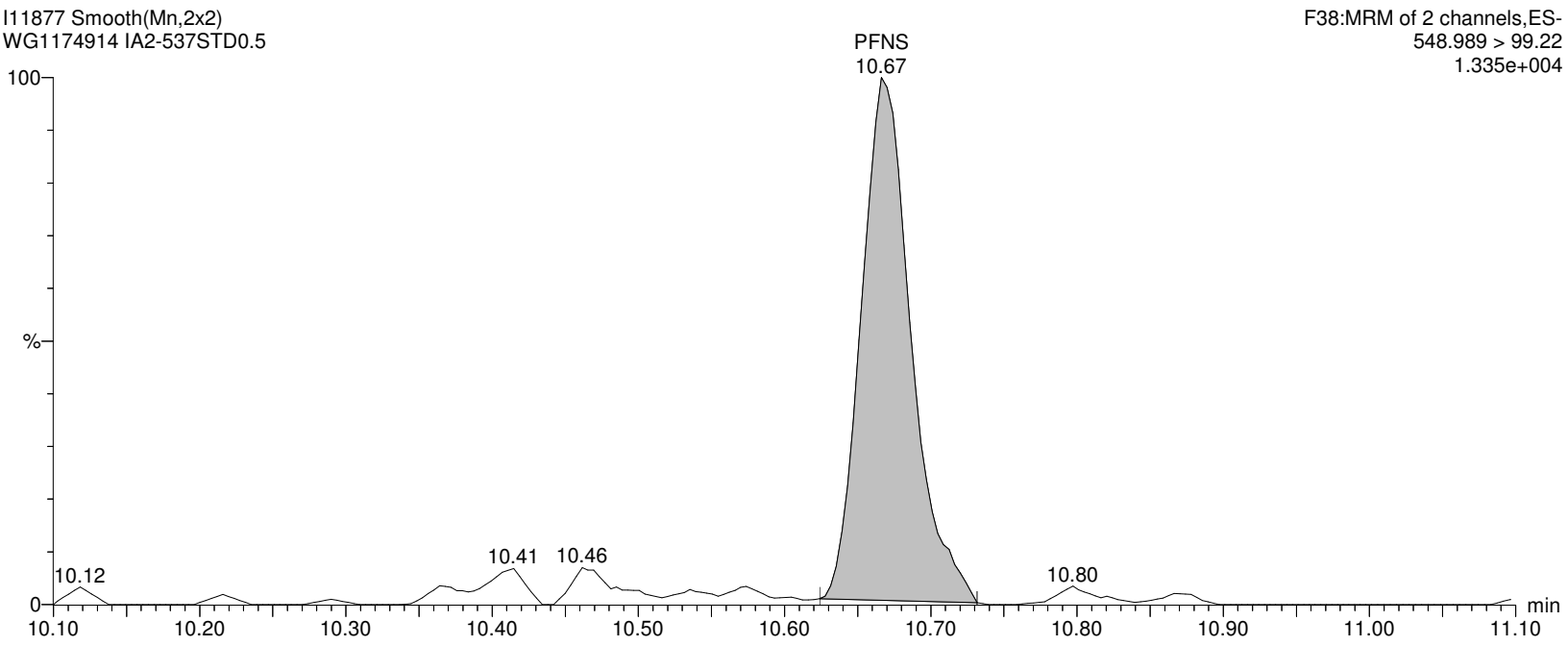

all concentration units in (ng/mL)

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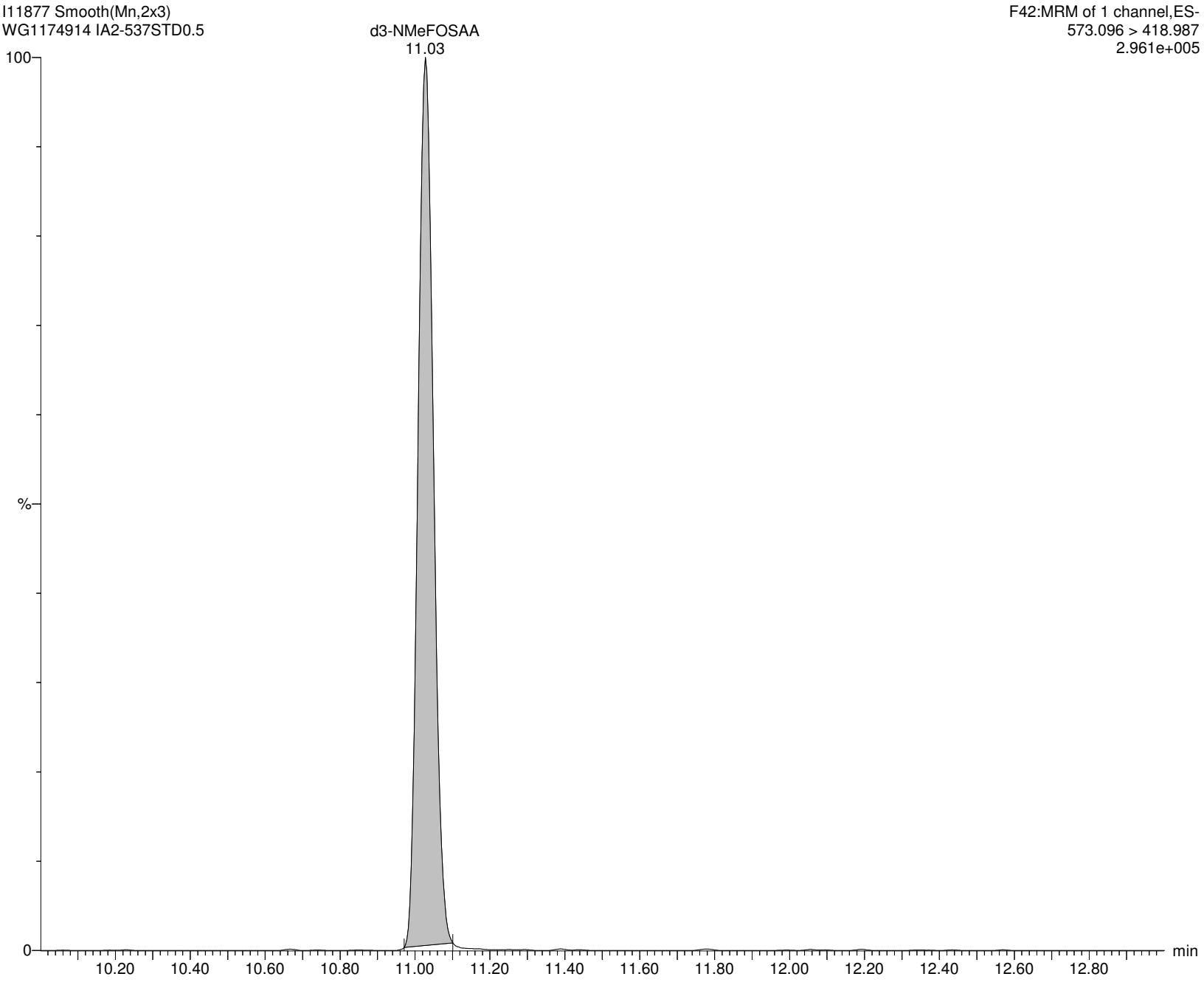
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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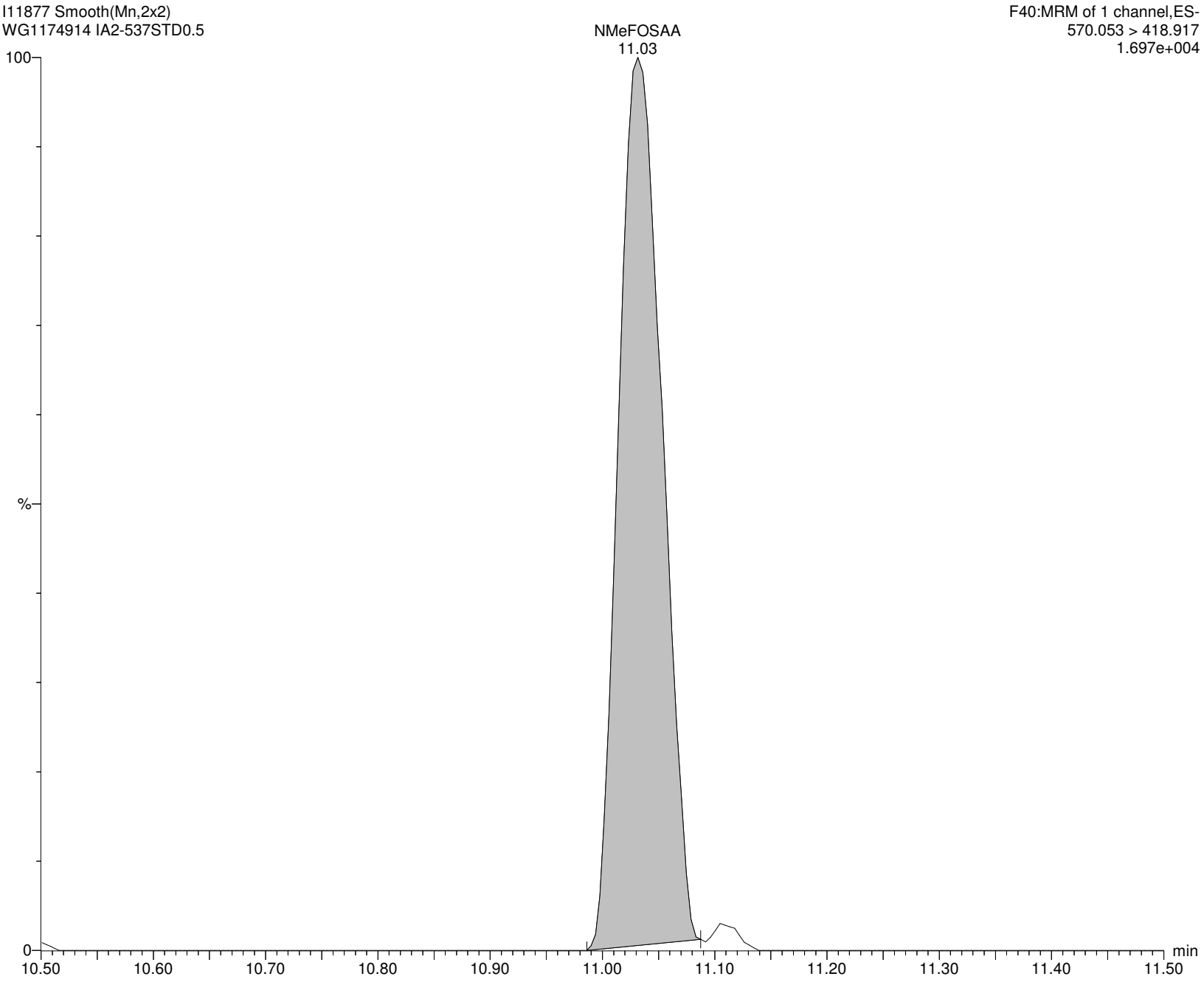

all concentration units in (ng/mL)

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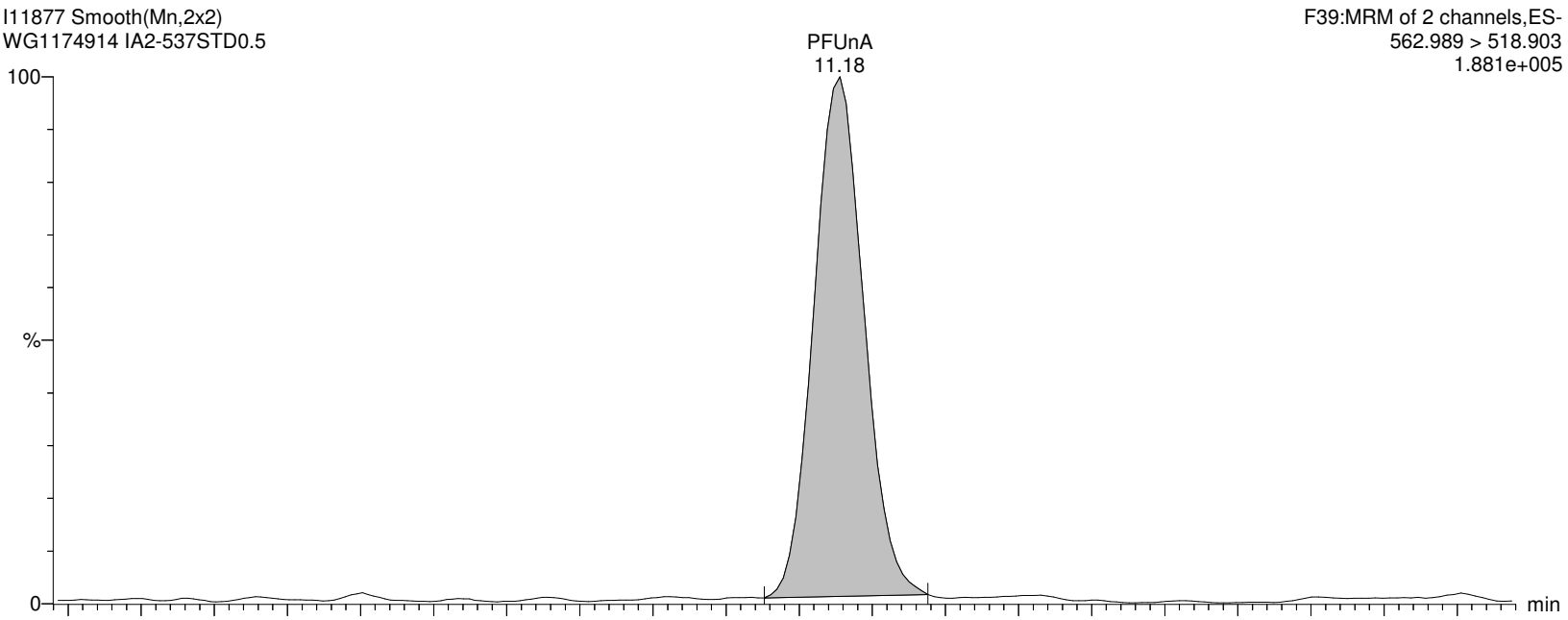

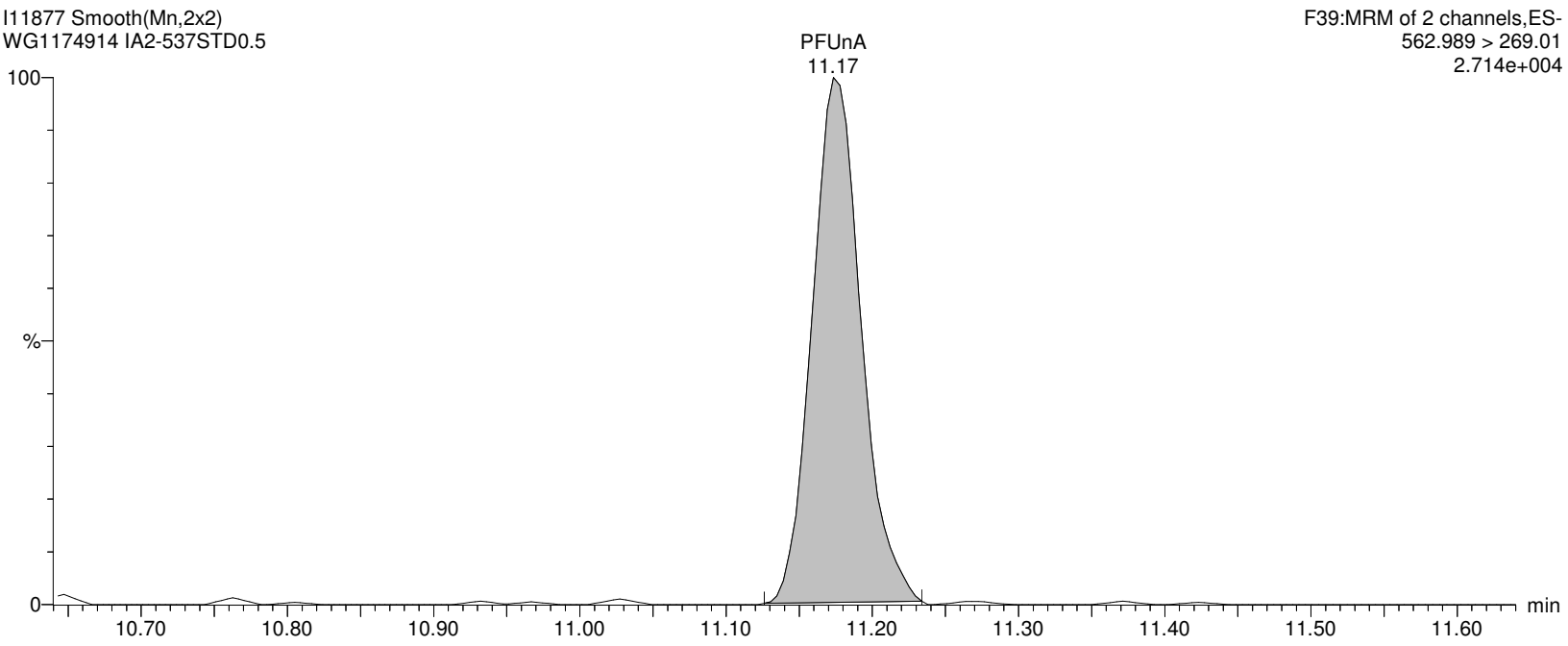

all concentration units in (ng/mL)

Alpha Analytical Inc.
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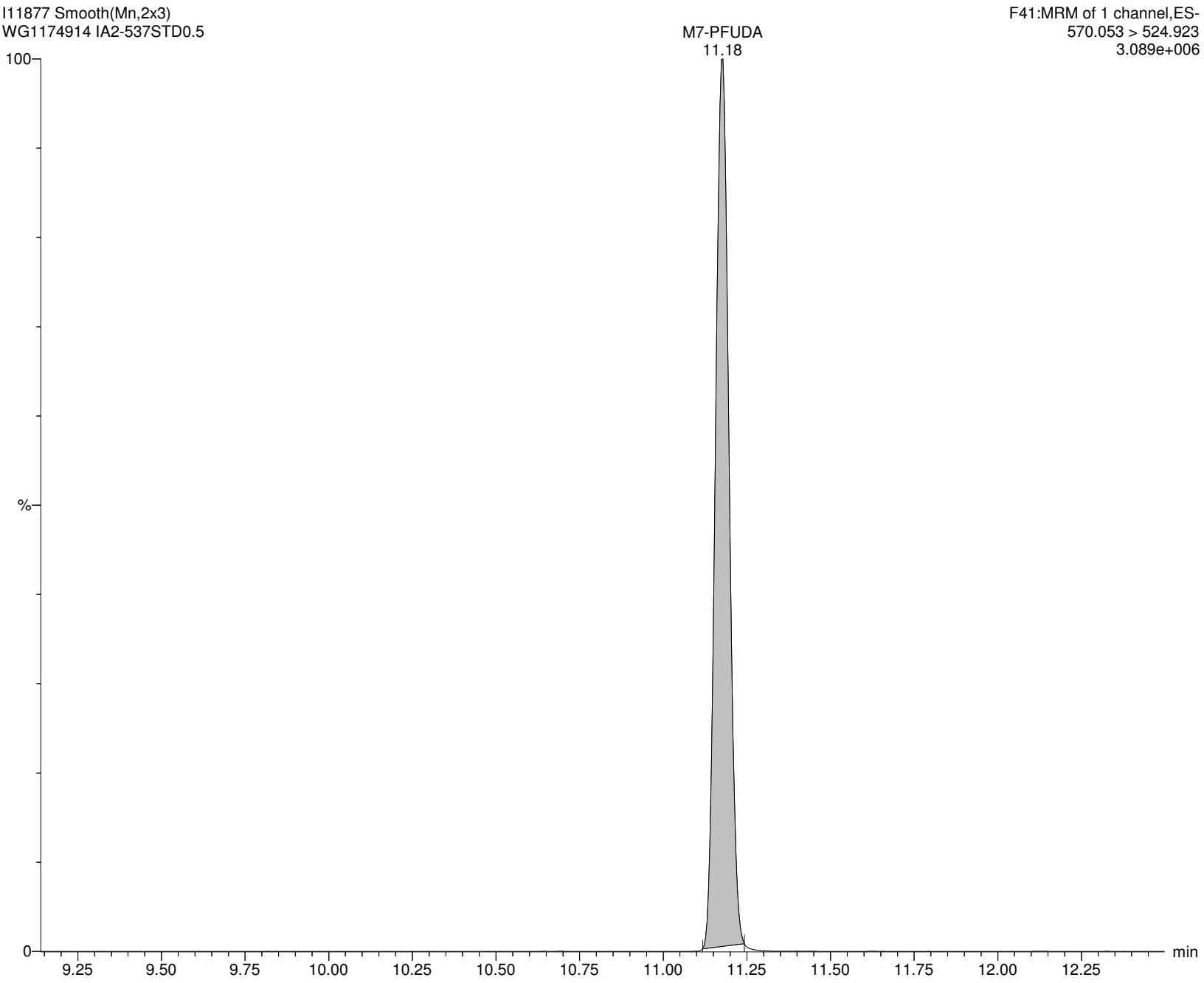
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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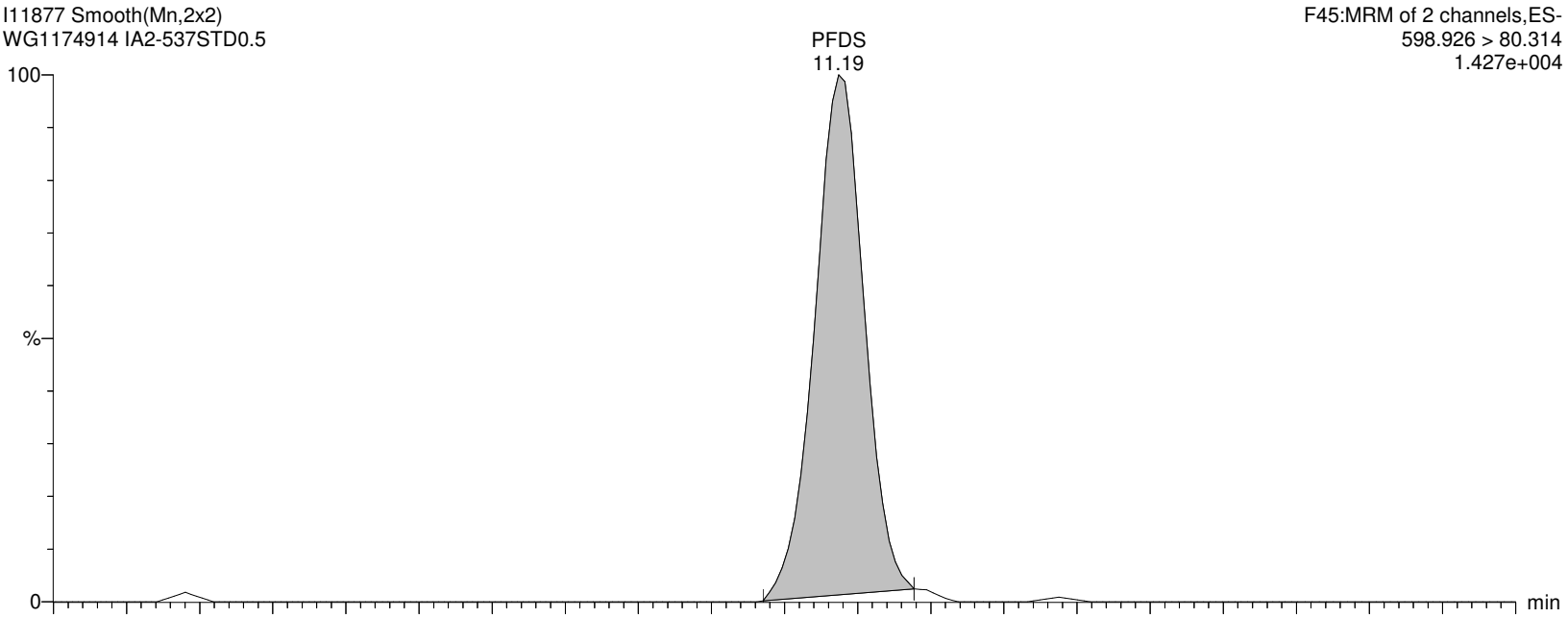

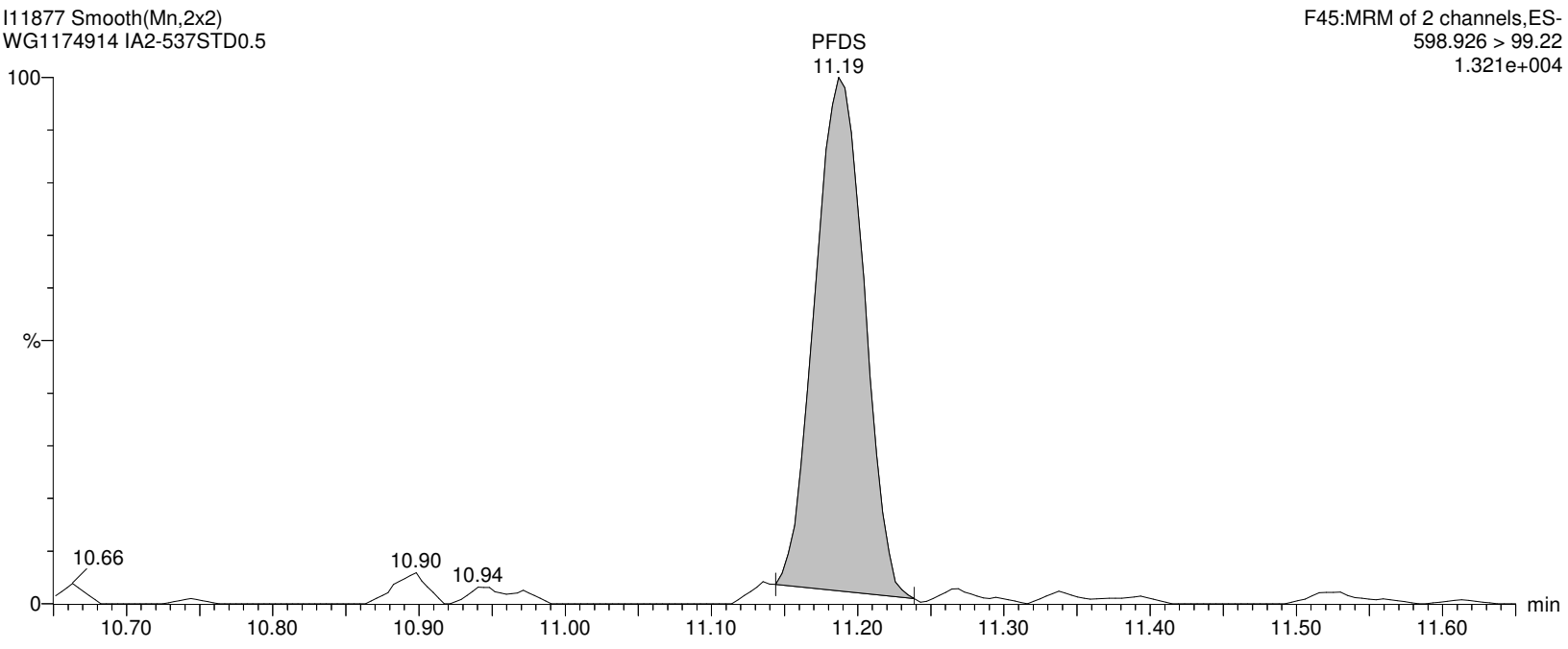

all concentration units in (ng/mL)

Alpha Analytical Inc.
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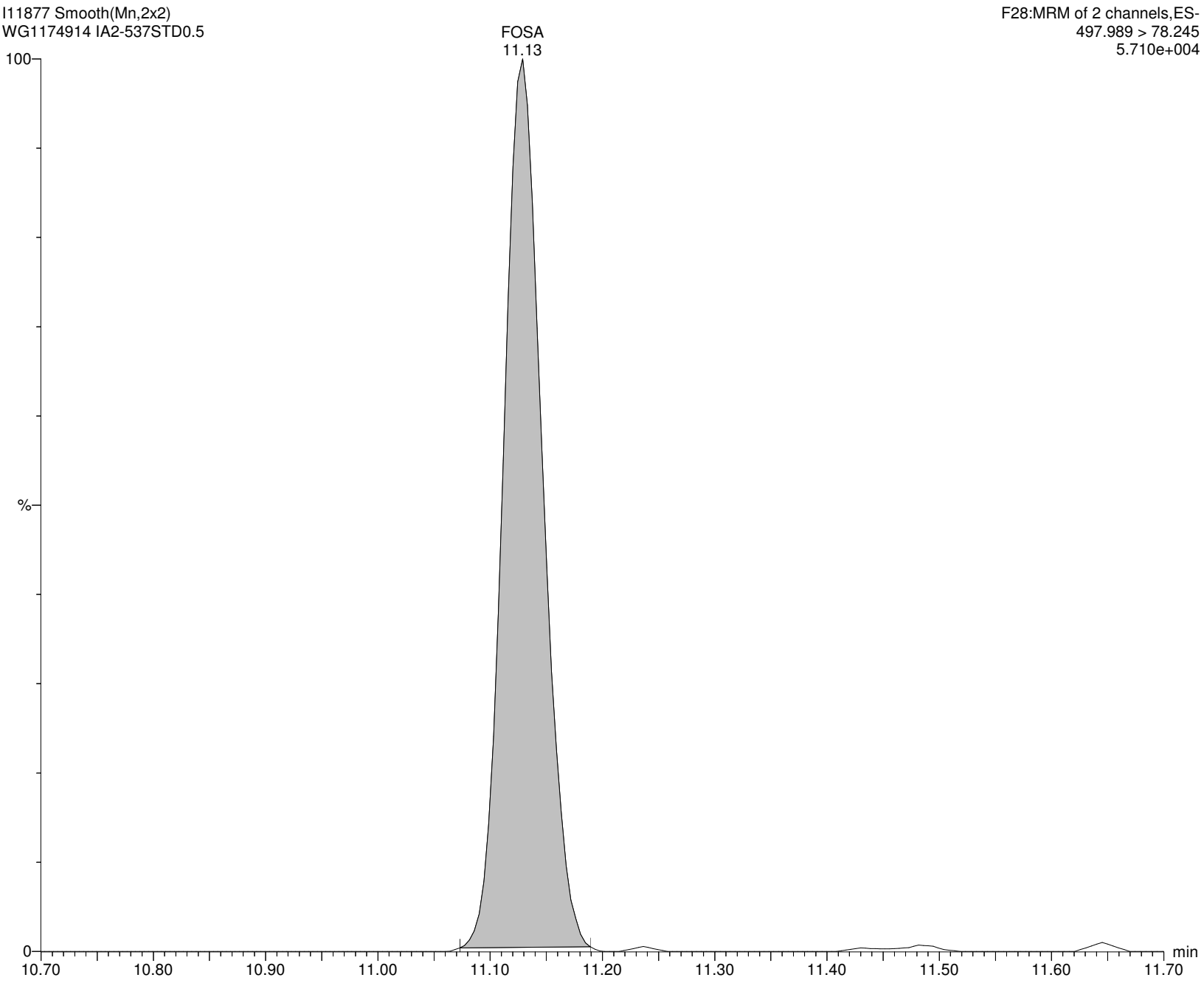

all concentration units in (ng/mL)

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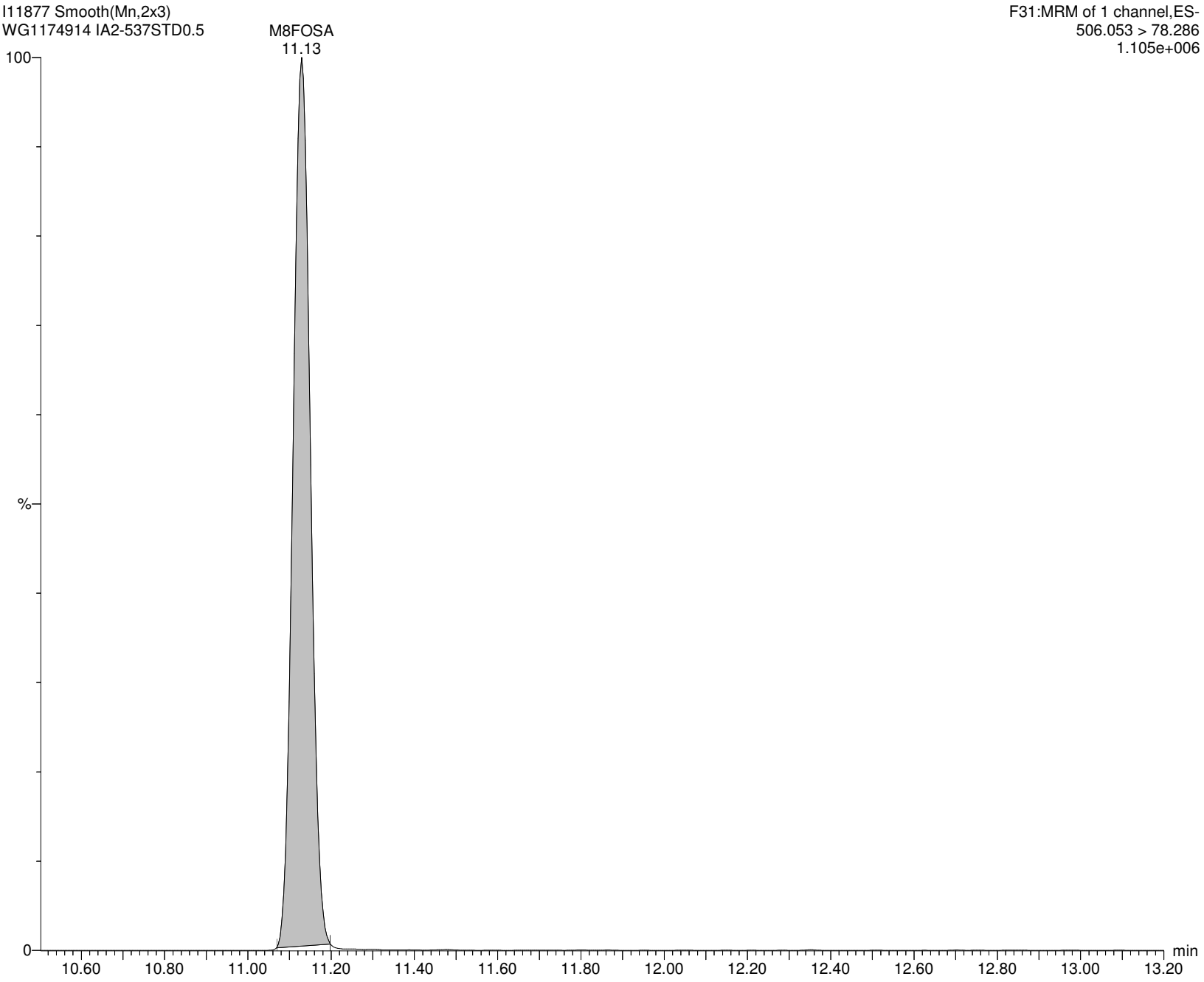

all concentration units in (ng/mL)

Alpha Analytical Inc.
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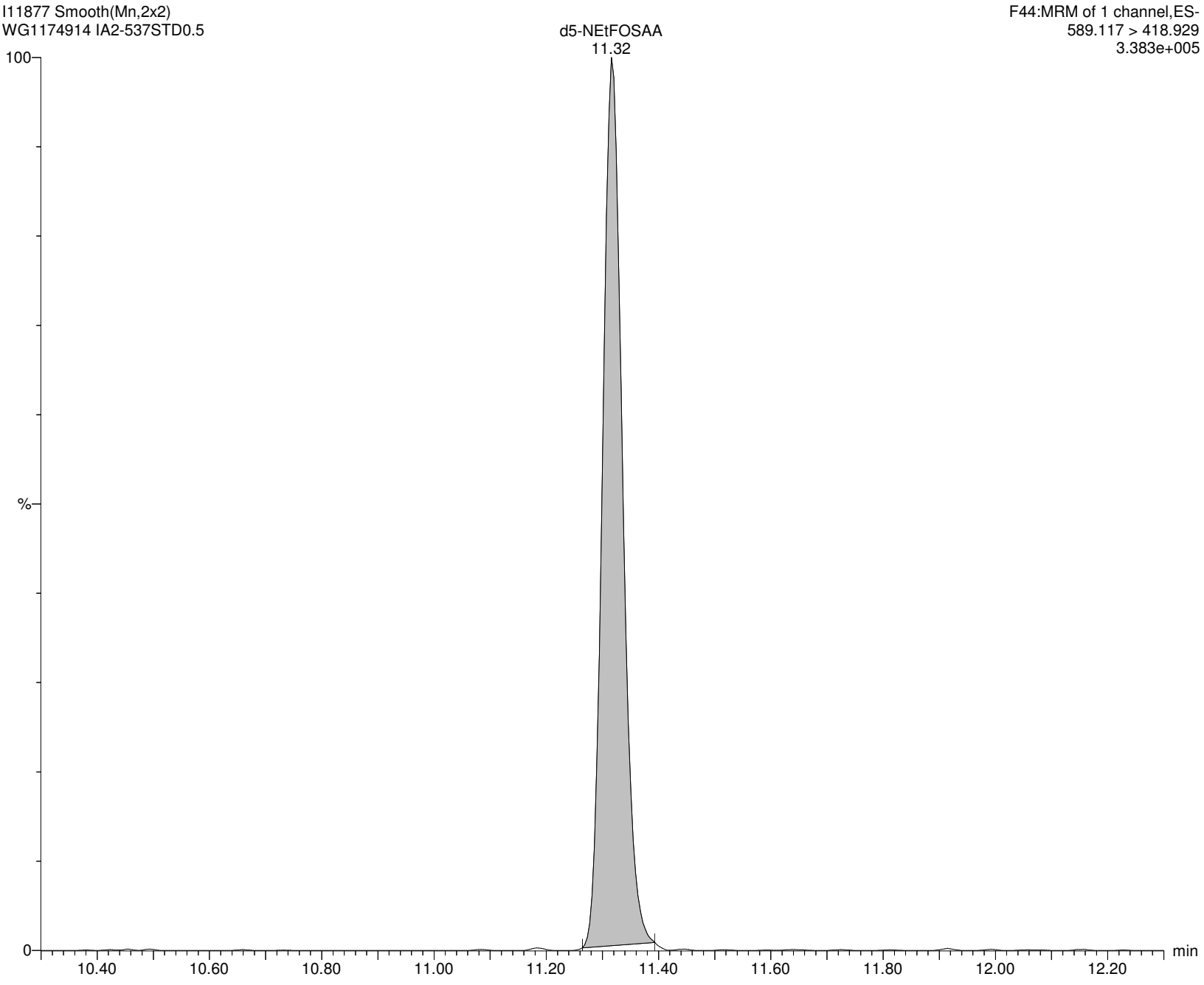
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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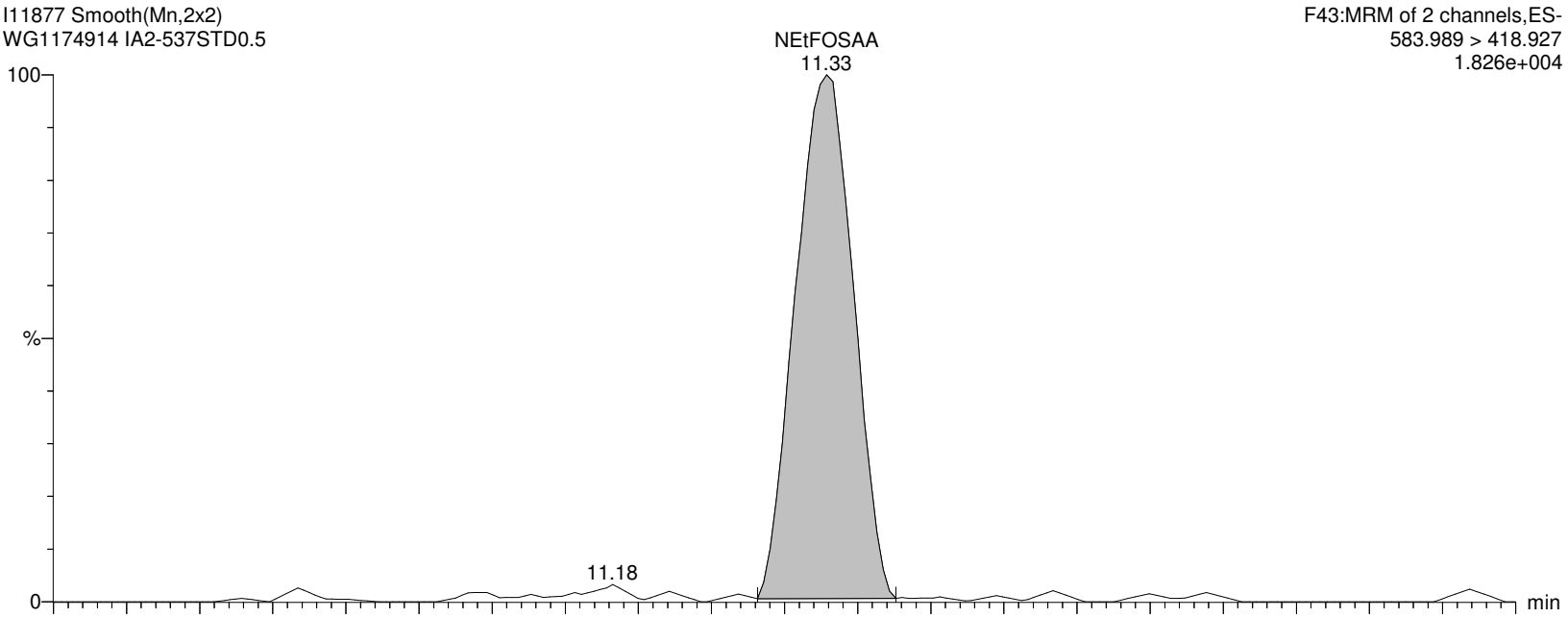

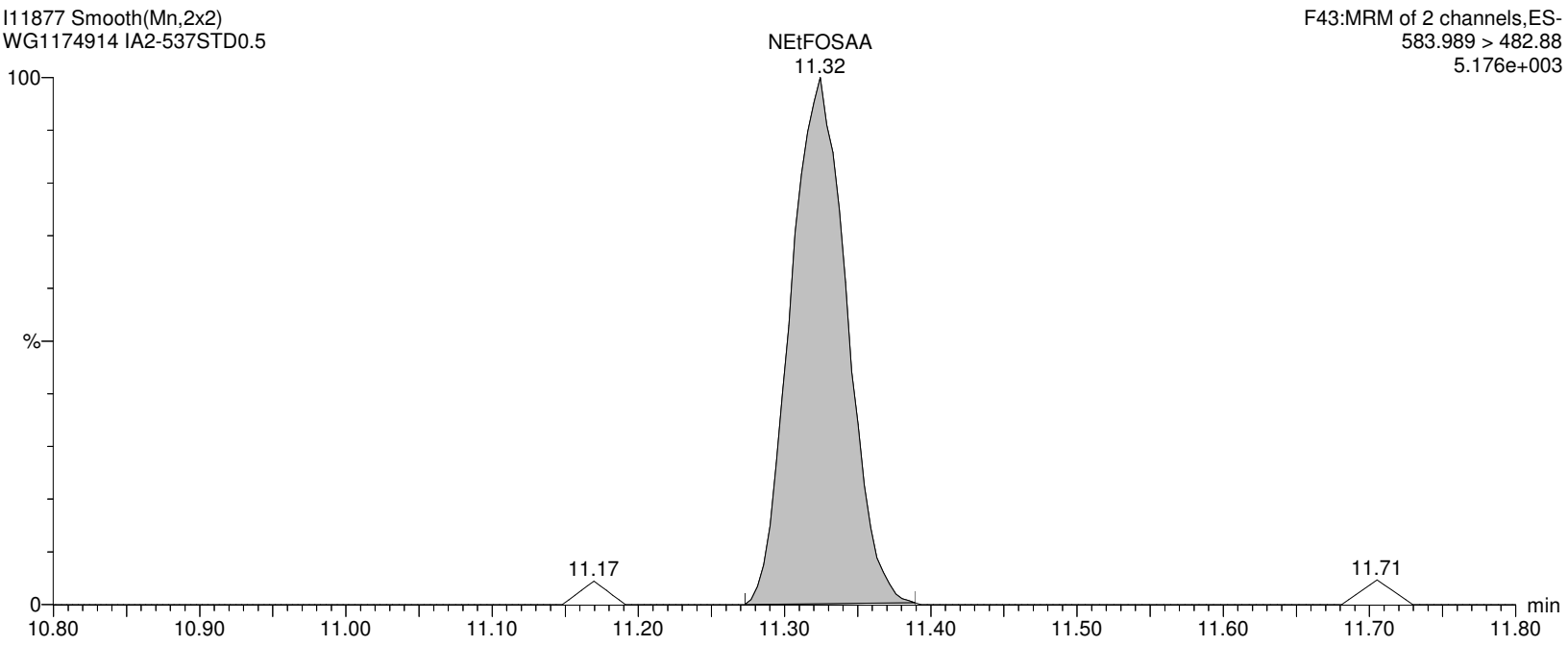

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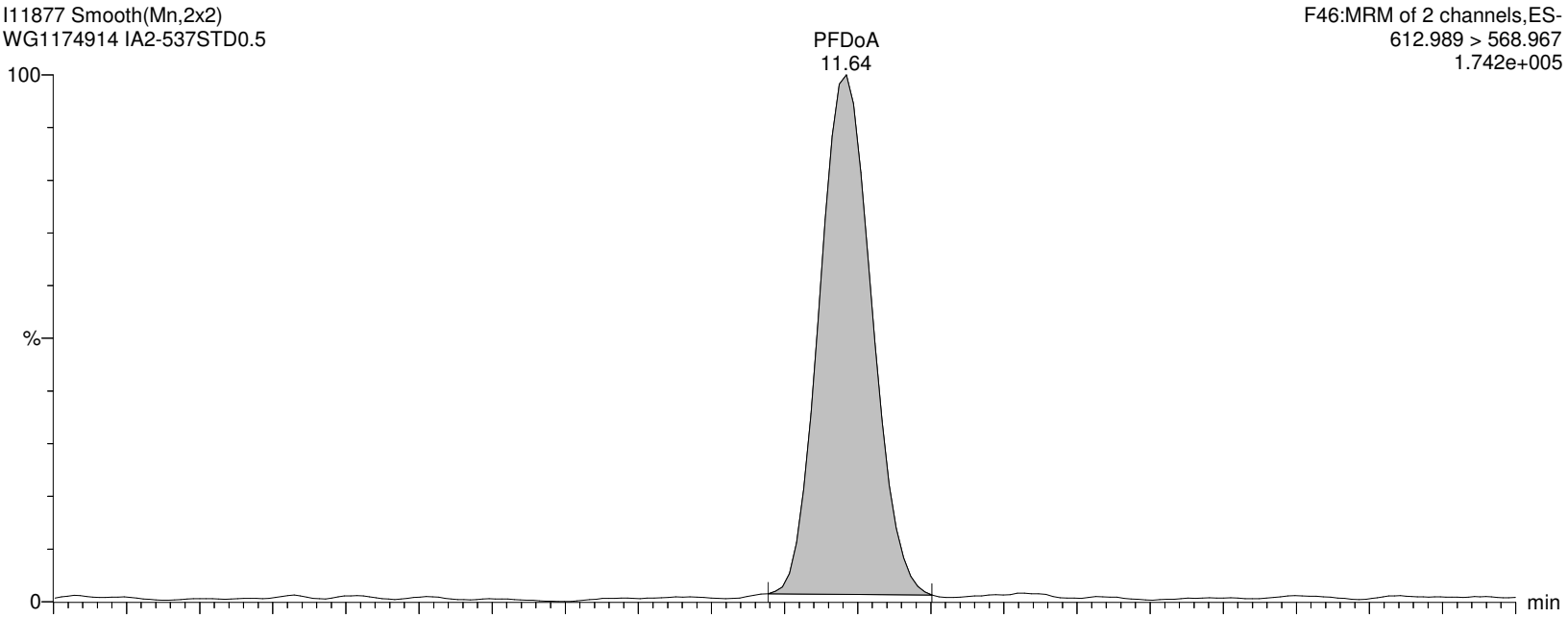

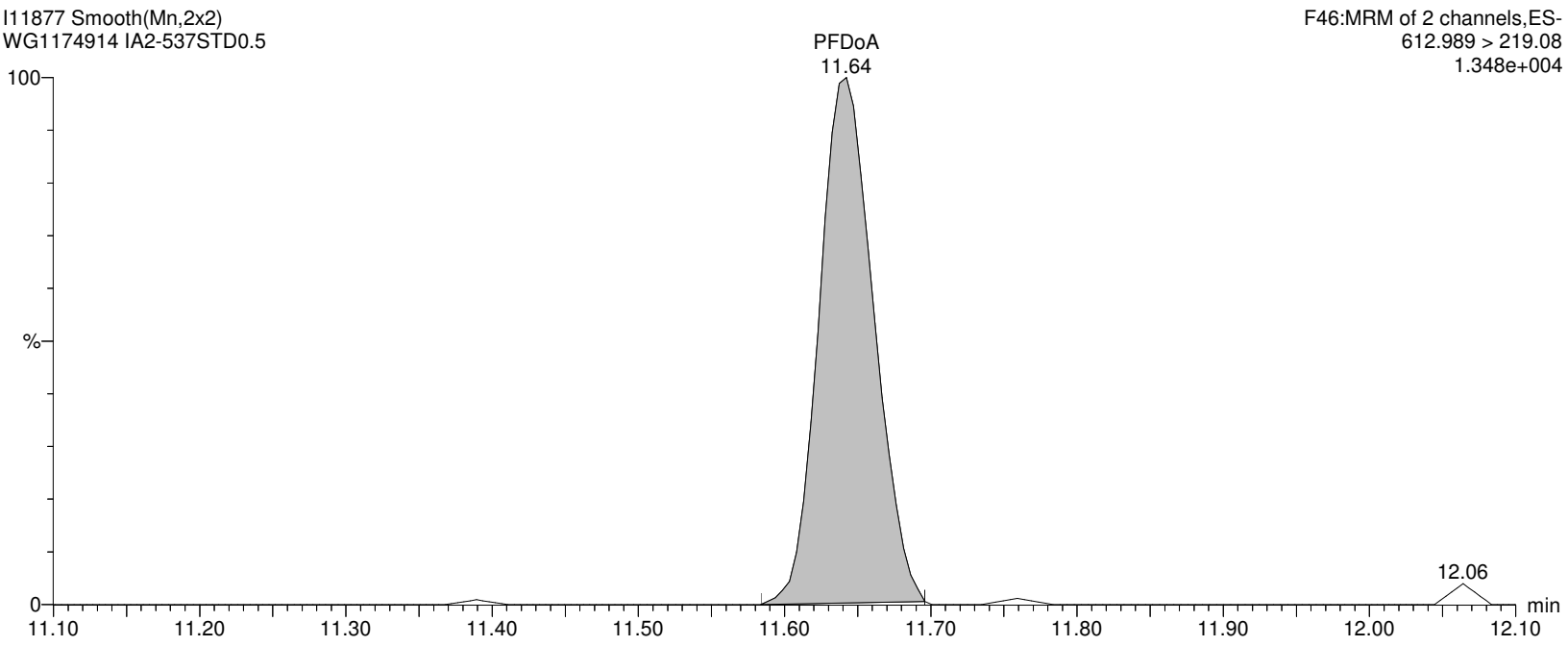

all concentration units in (ng/mL)

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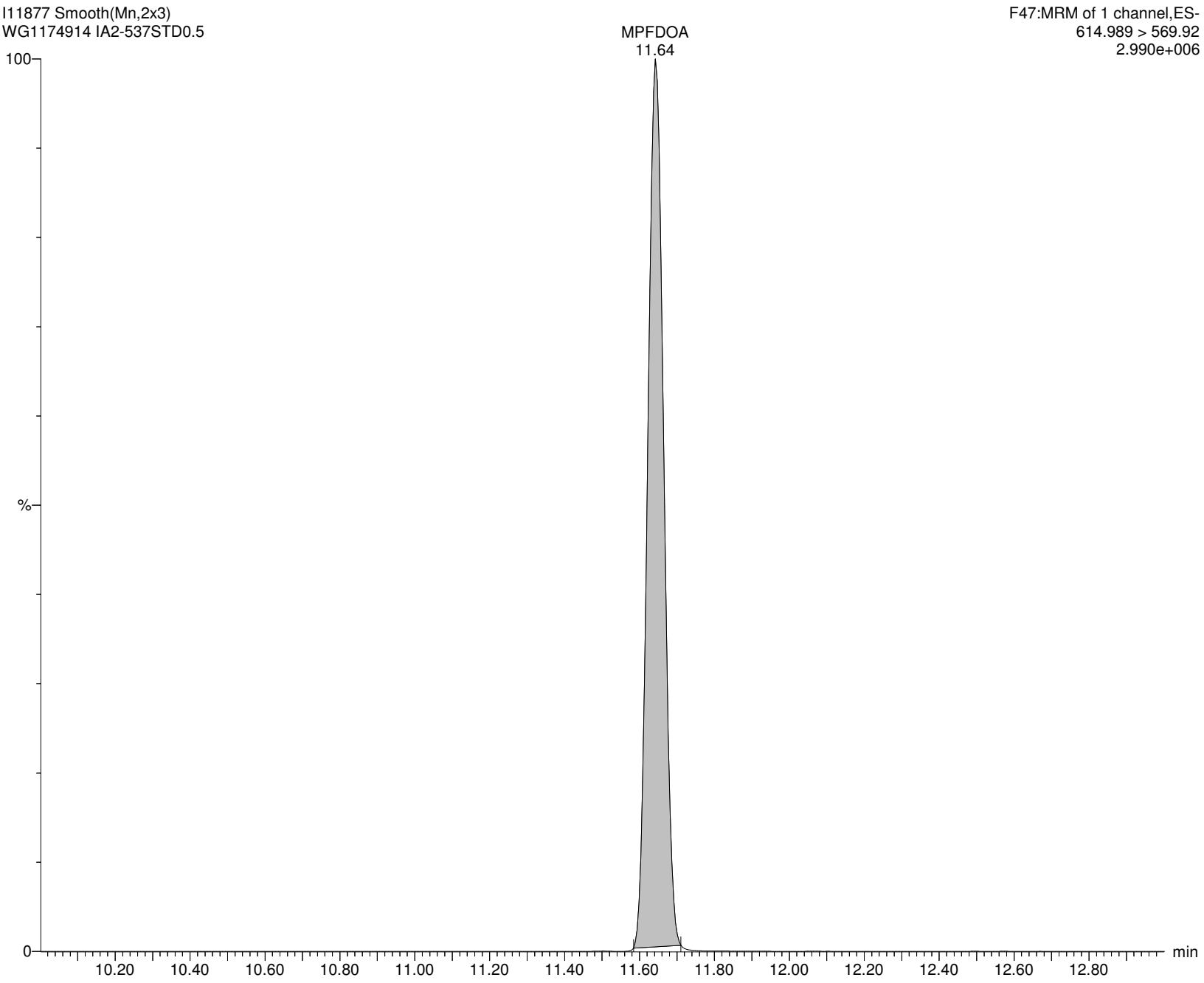

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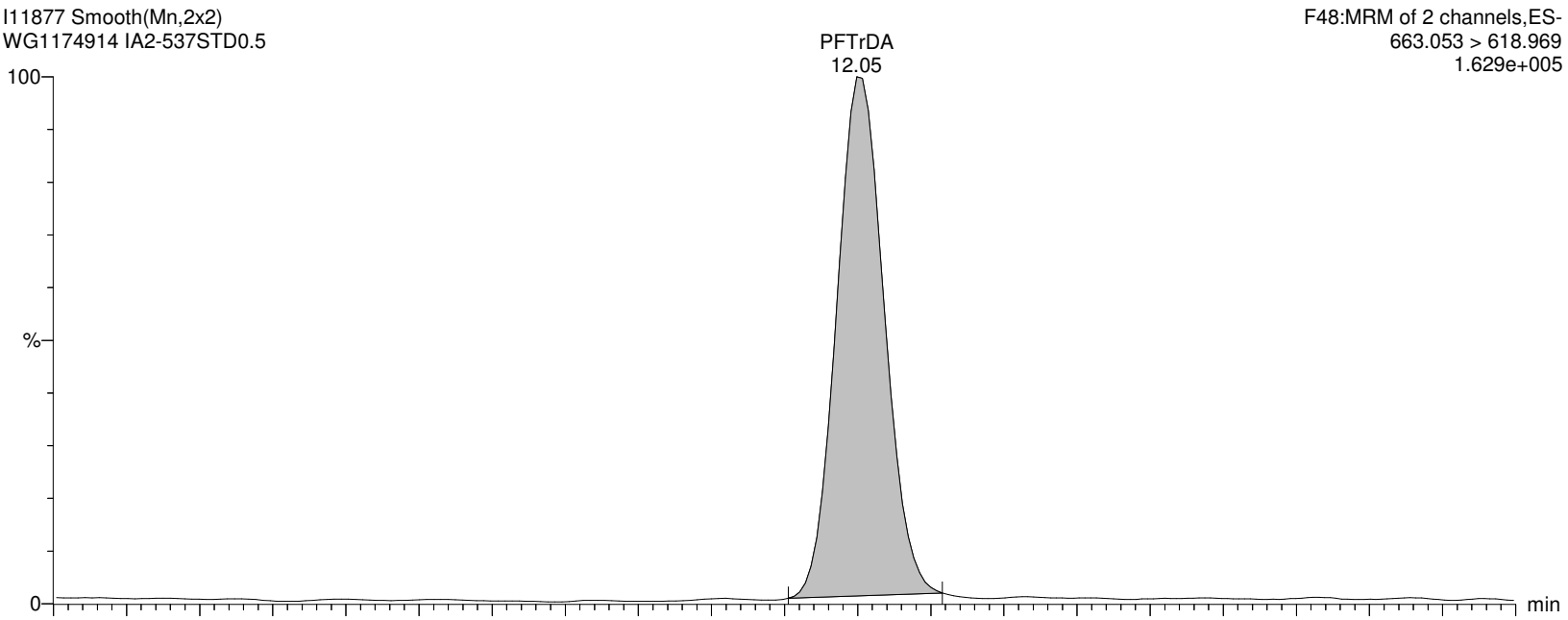
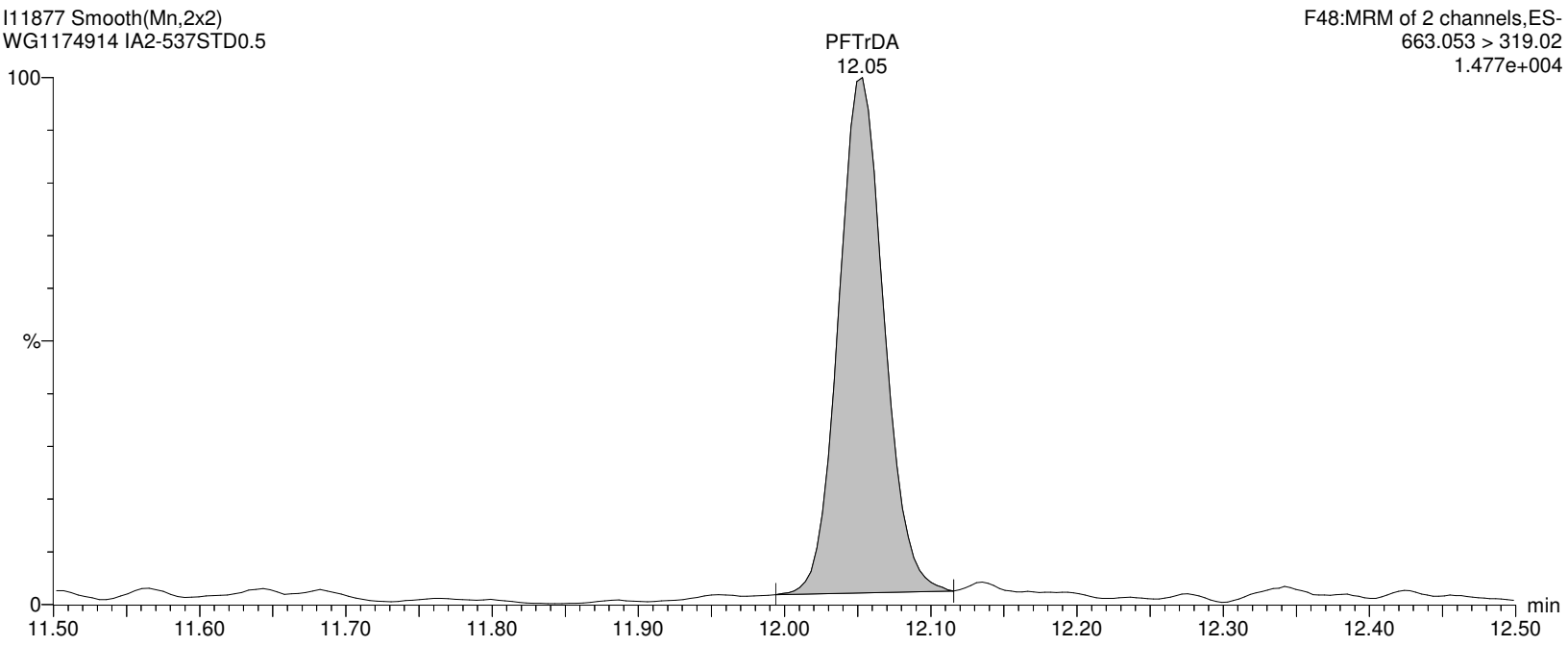
PFTrDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:16 Eastern Daylight Time

Name: I11877
ID: IA2-537STD0.5
Date: 01-Nov-2018
Time: 16:45:35
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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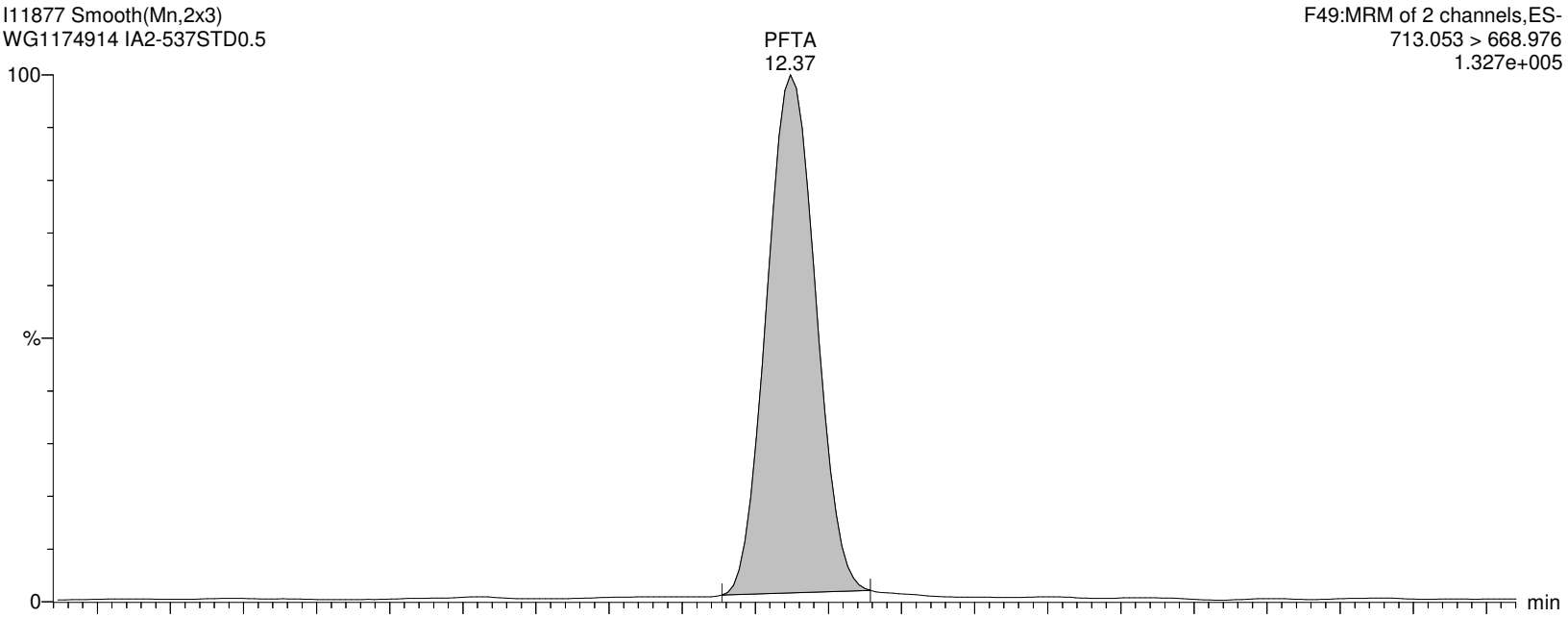

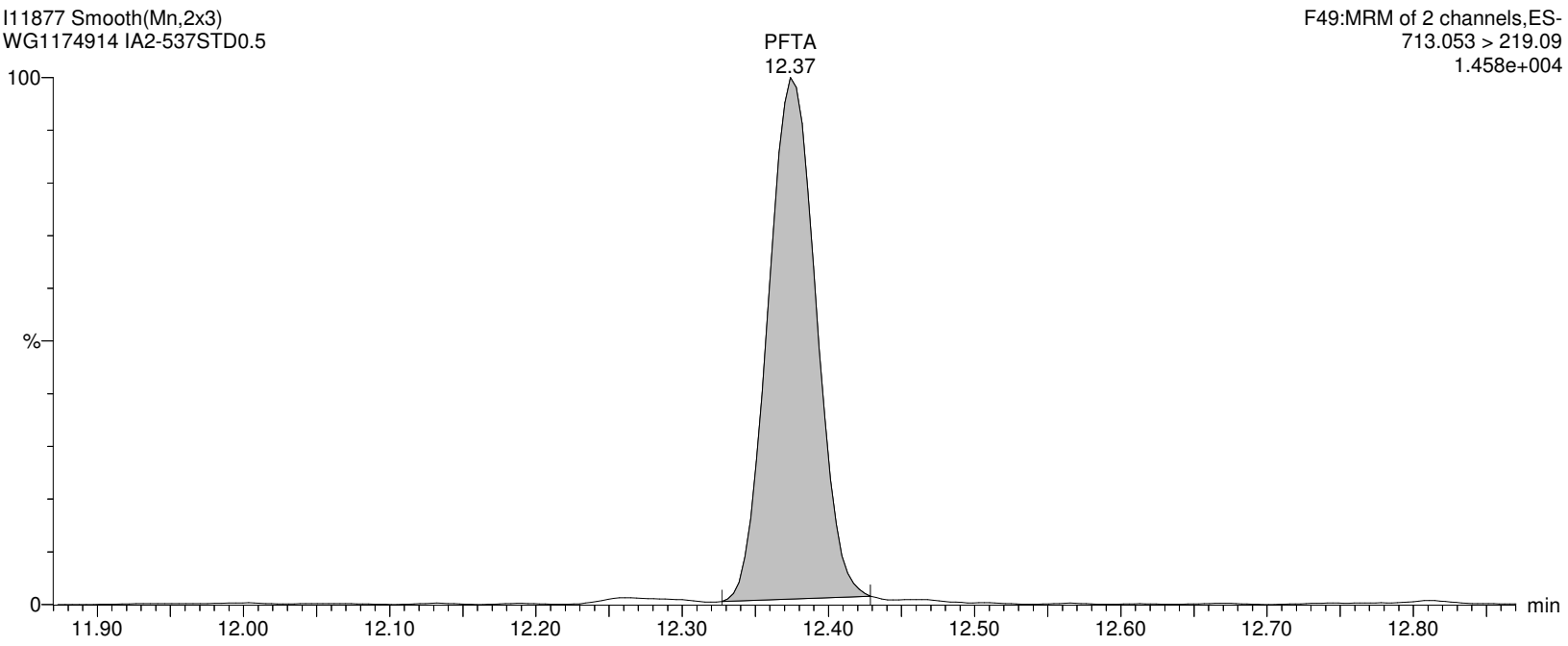

all concentration units in (ng/mL)

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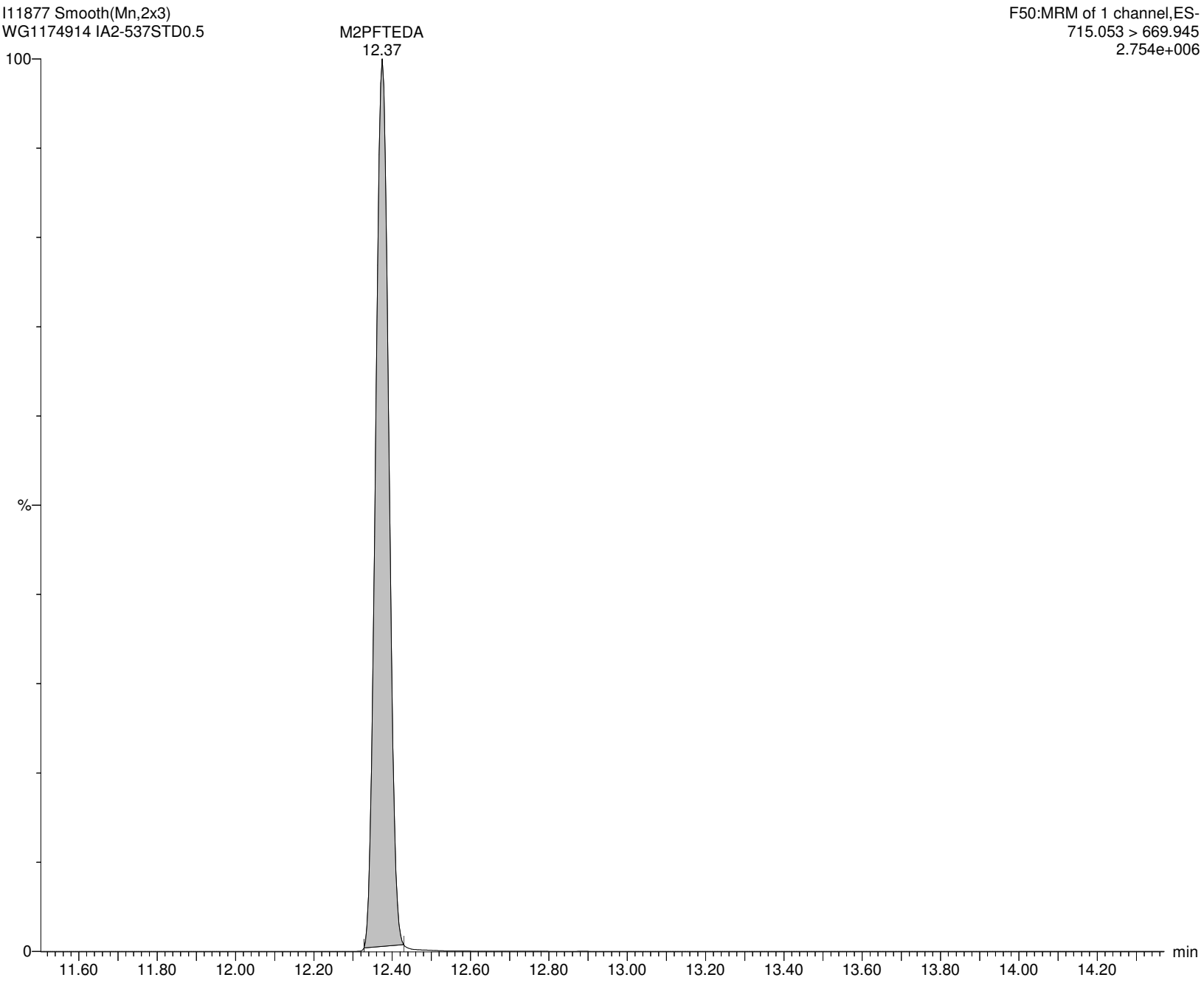

all concentration units in (ng/mL)

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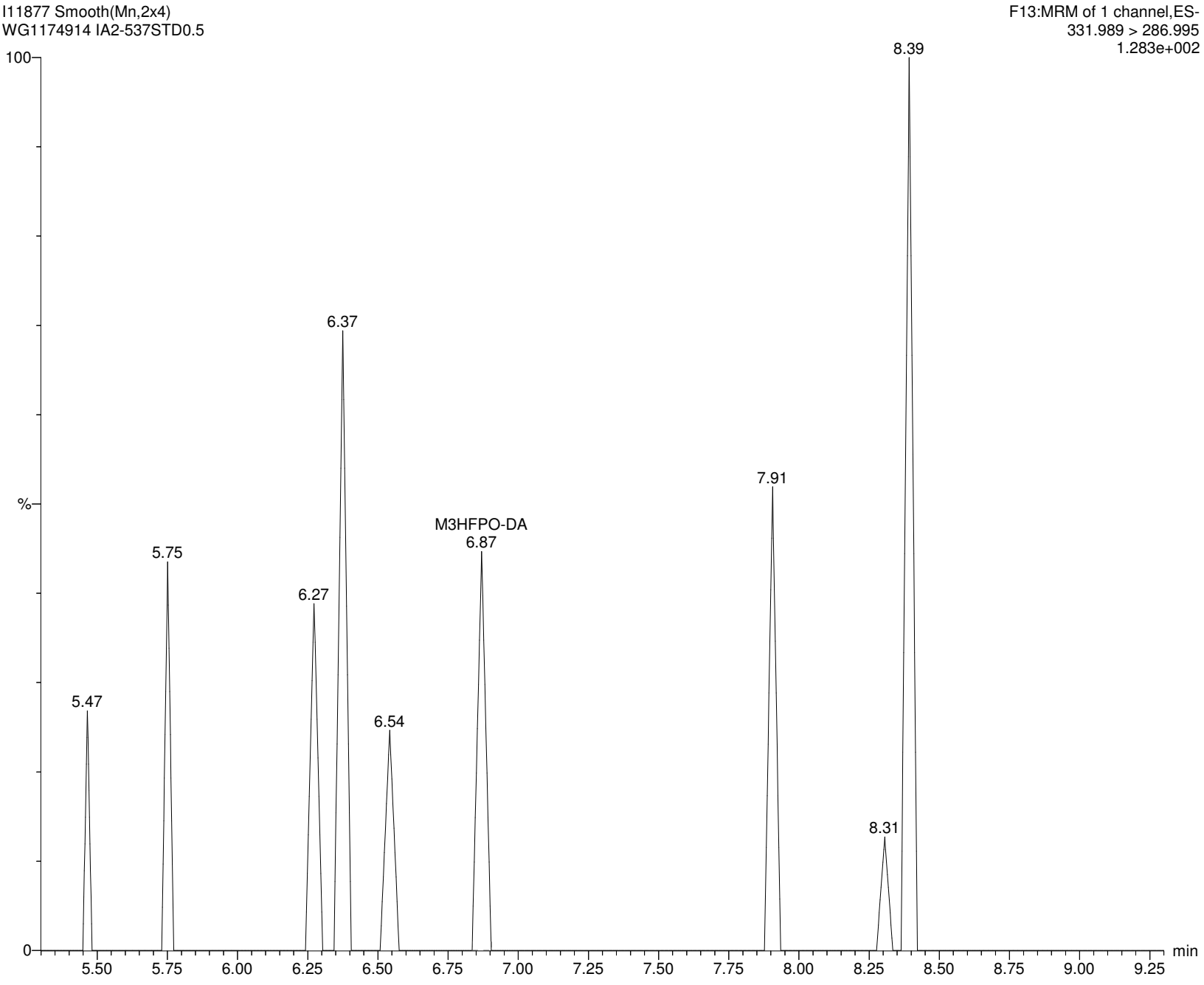

all concentration units in (ng/mL)

Alpha Analytical Inc.
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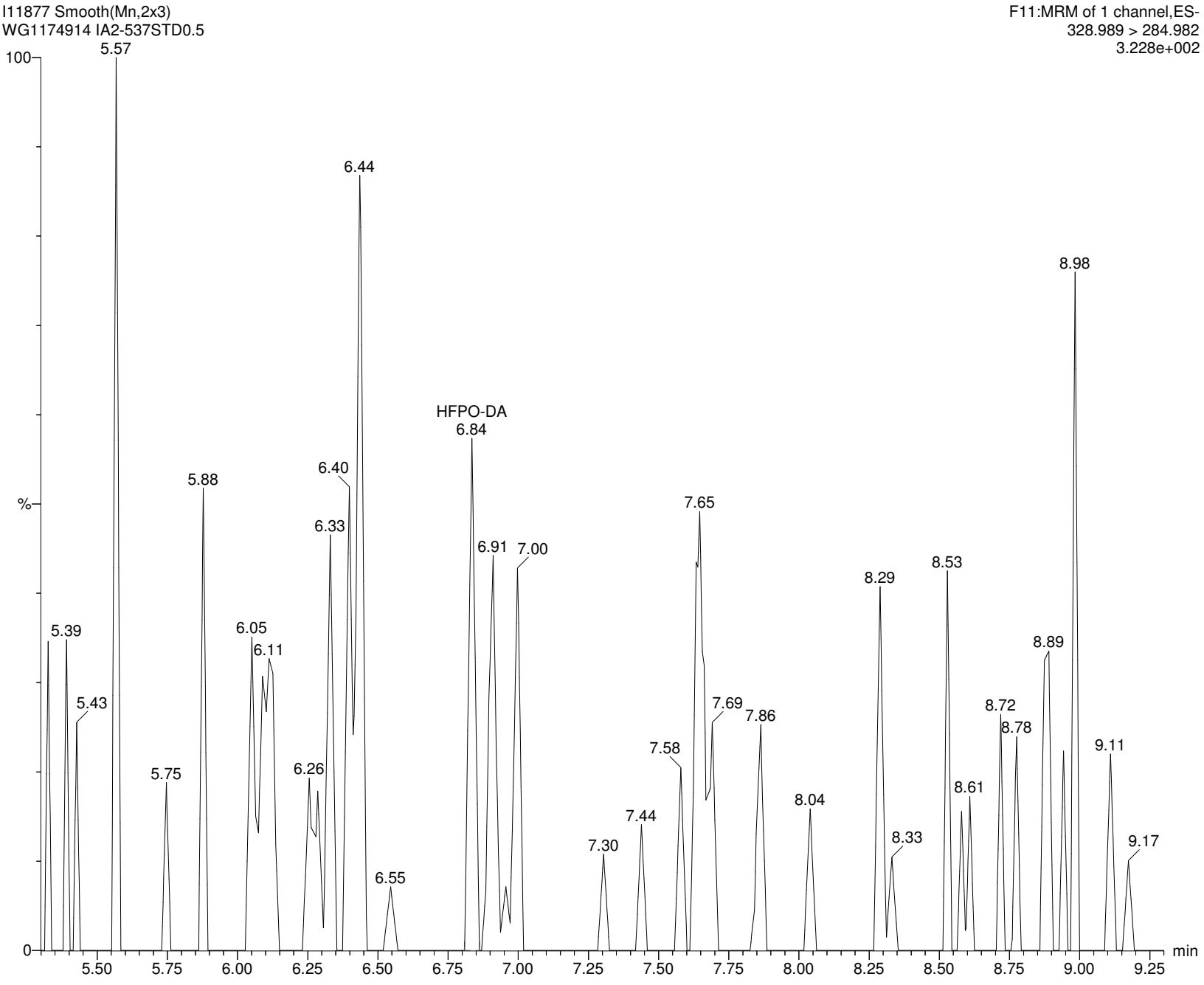

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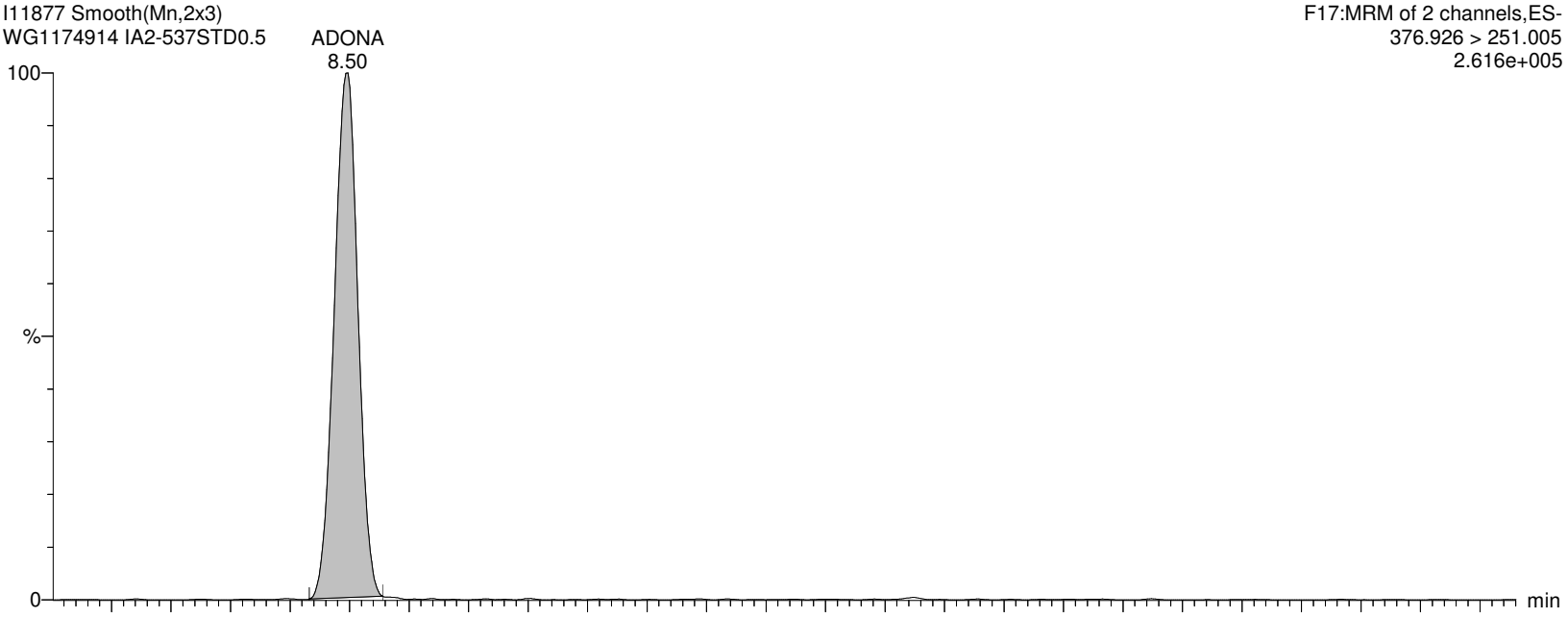

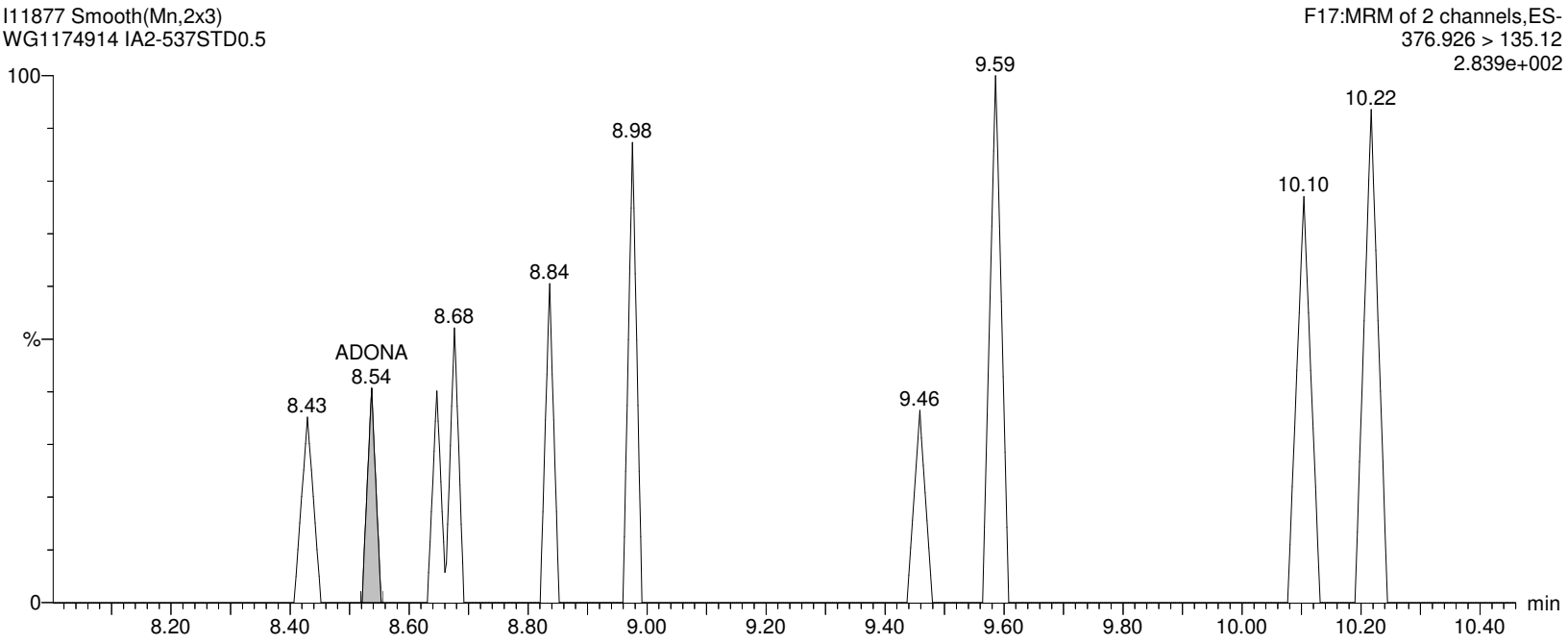

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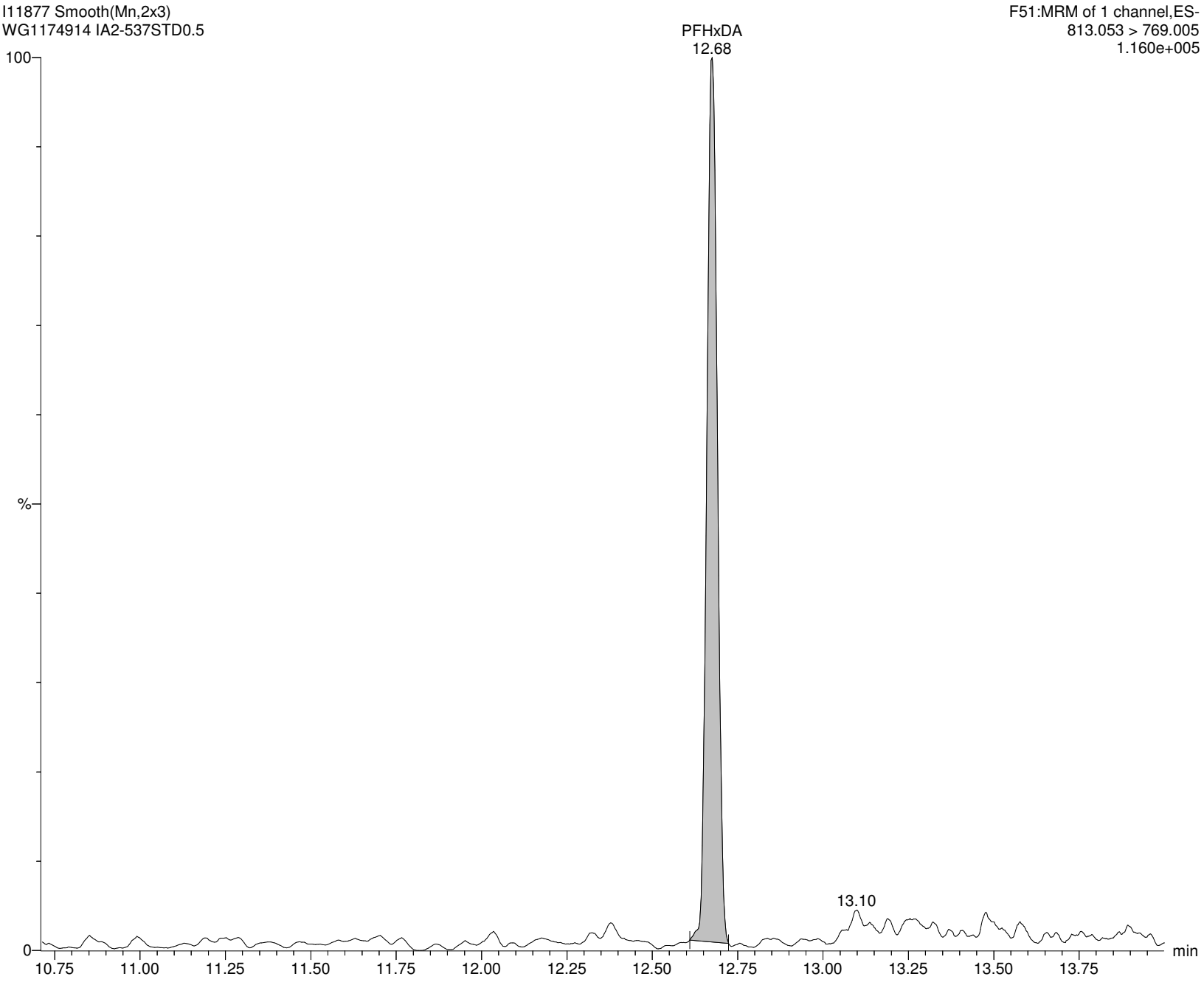

all concentration units in (ng/mL)

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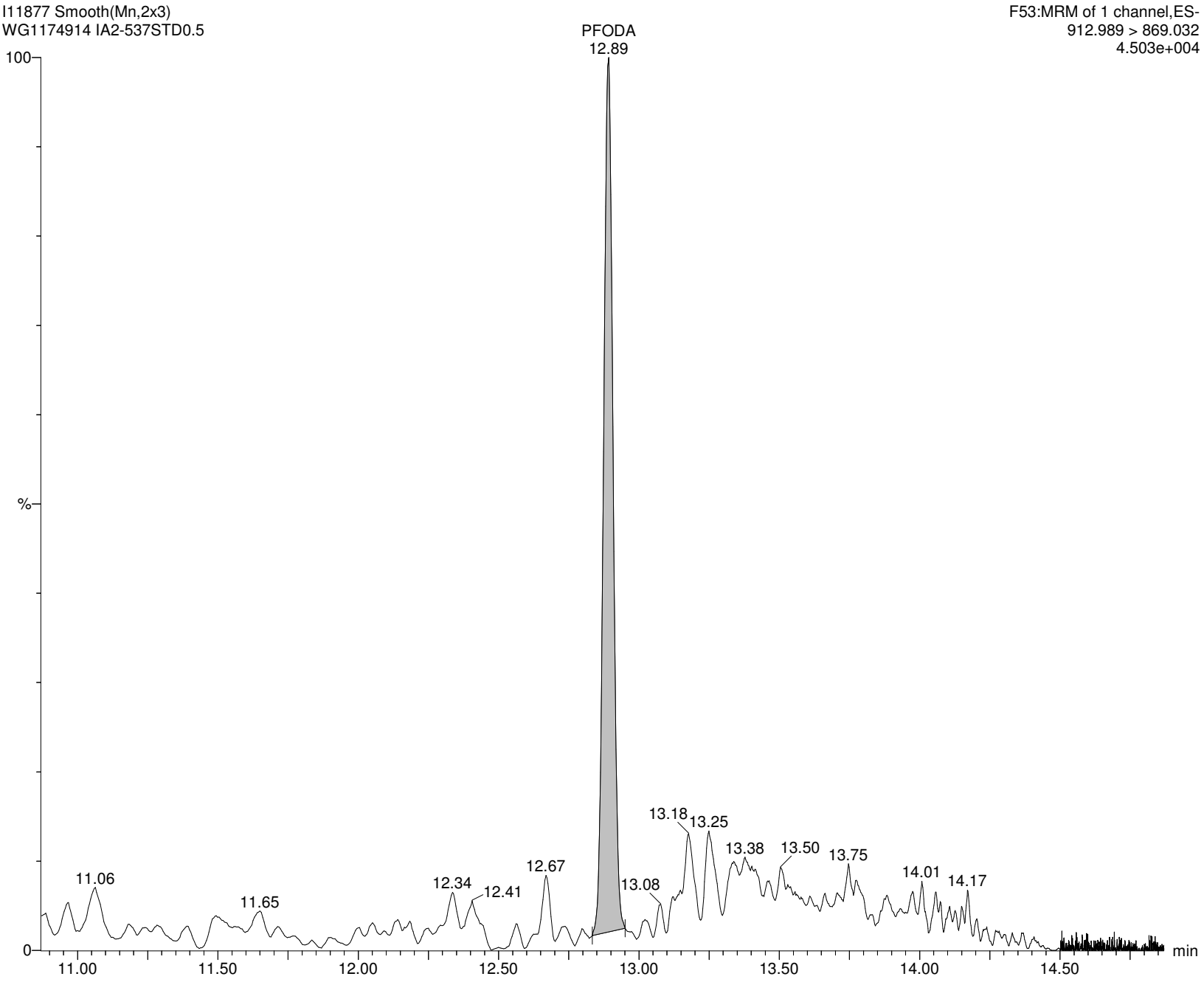

all concentration units in (ng/mL)

Alpha Analytical Inc.
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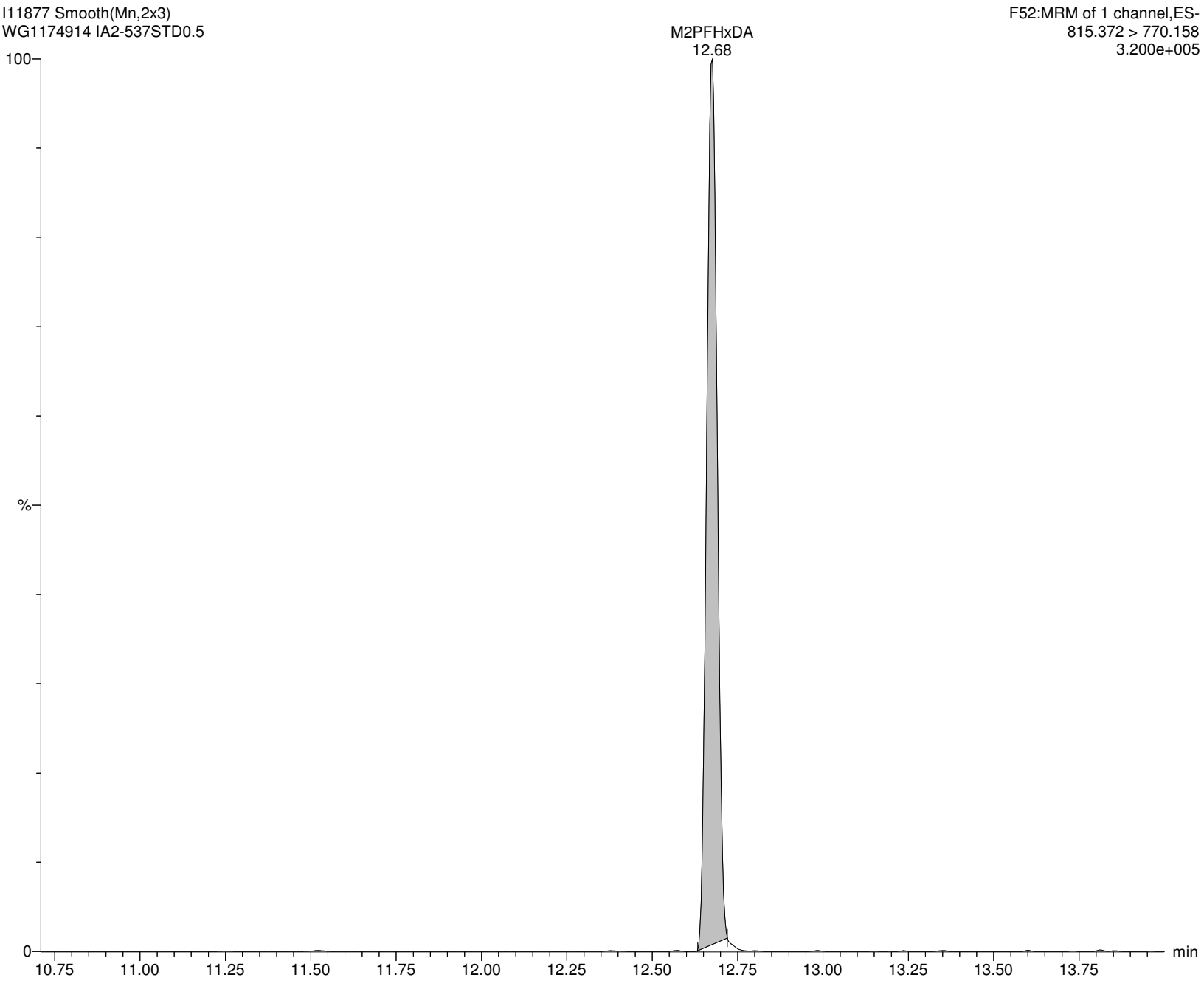

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:18 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD5.0
Name: I11878
Date: 01-Nov-2018
Time: 17:02:14
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	37784		4.772		na	95.4
2	M3PFBA	INT STD	2.13	215.926 > 172.122	93700		10.123		na	101.2
3	MPFBA	INT STD	2.12	216.926 > 172.137	90582		10.177		na	101.8
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	54199		4.734		na	94.7
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	121477		10.576		na	105.8
6	PFBS	375-73-5	5.77	298.989 > 80.295	7737		4.011		na	90.6
7	M3PFBS	INT STD	5.77	301.989 > 80.254	21759		10.153		na	101.5
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	5222		4.704	1.92	YES	100.6
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	11076		8.331		na	83.3
10	PFHxA	307-24-4	7.03	312.989 > 269.028	69851		4.794	19.53	NO	95.9
11	M5PFHxA	INT STD	7.03	317.989 > 273.045	150146		10.161		na	101.6
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	9181		4.145	1.98	NO	88.2
13	PFHpA	375-85-9	8.33	362.926 > 319.014	85064		4.781	5.11	NO	95.6
14	M4PFHpA	INT STD	8.32	366.926 > 321.979	180728		10.402		na	104.0
15	br-PFHxS	355-46-4	8.25	398.926 > 80.295	1458		0.700	2.18	YES	82.3
16	L-PFHxS	355-46-4	8.49	398.926 > 80.295	6309		3.495	1.32	NO	94.5
17	PFHxS	355-46-4		398.926 > 80.295	7766		4.195		na	
18	M3PFHxS	INT STD	8.49	401.926 > 80.317	12801		10.754		na	107.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	80153		4.847	8.62	NO	96.9
21	M2PFOA	INT STD	9.27	415.032 > 369.968	205104		10.863		na	108.6
22	PFOA	335-67-1		412.989 > 368.9	80153		4.847		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	169481		10.246		na	102.5
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	4416		4.787	1.01	NO	100.8
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	9304		8.432		na	84.3
26	PFHpS	375-92-8	9.37	448.926 > 80.257	5201		5.053	0.95	YES	106.4
27	PFNA	375-95-1	10.02	462.989 > 418.931	70814		4.941	4.25	NO	98.8
28	M9PFNA	INT STD	10.02	472.053 > 426.947	171602		10.402		na	104.0
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	1941		0.797	3.83	YES	79.7
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	6097		3.512	1.75	YES	96.2
31	PFOS	1763-23-1		498.989 > 80.294	8038		4.309		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	17192		10.613		na	106.1
33	M8PFOS	INT STD	10.07	507.053 > 80.294	16622		10.368		na	103.7
34	PFDA	335-76-2	10.64	513.053 > 468.906	68020		4.834	6.20	NO	96.7
35	M2PFDA	INT STD	10.64	515.053 > 469.934	171429		11.531		na	115.3
36	M6PFDA	INT STD	10.64	519.053 > 473.931	158640		10.249		na	102.5
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	3187		4.726		na	98.5
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	5512		8.506		na	85.1
39	PFNS	68259-12-1	10.67	548.989 > 80.249	6728		4.521	1.30	NO	94.2

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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ID: IA2-537STD5.0
Name: I11878
Date: 01-Nov-2018
Time: 17:02:14
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	13577		8.136		na	81.4
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	7648		5.600		na	112.0
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	68003		4.768	7.15	NO	95.4
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	143550		11.080		na	110.8
44	PFDS	335-77-3	11.19	598.926 > 80.314	5115		4.046	1.08	NO	83.9
45	FOSA	754-91-6	11.13	497.989 > 78.245	24846		4.981		na	99.6
46	M8FOSA	INT STD	11.13	506.053 > 78.286	50998		9.235		na	92.4
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	13788		8.566		na	85.7
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	6748		4.787	2.85	YES	95.7
49	PFDoA	307-55-1	11.64	612.989 > 568.967	66948		5.209	14.78	YES	104.2
50	MPFDOA	INT STD	11.64	614.989 > 569.92	137820		9.468		na	94.7
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	55147		5.103	11.56	NO	102.1
52	PFTA	376-06-7	12.37	713.053 > 668.976	45242		5.101	9.31	NO	102.0
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	105628		9.797		na	98.0
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	107787		4.807	5450.09	NO	101.6
57	PFHxDA		12.67	813.053 > 769.005	29809		4.668		na	93.4
58	PFODA		12.88	912.989 > 869.032	16038		4.173		na	83.5
59	M2PFHxDA		12.67	815.372 > 770.158	10570		9.424		na	94.2

all concentration units in (ng/mL)

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Date: 01-Nov-2018
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Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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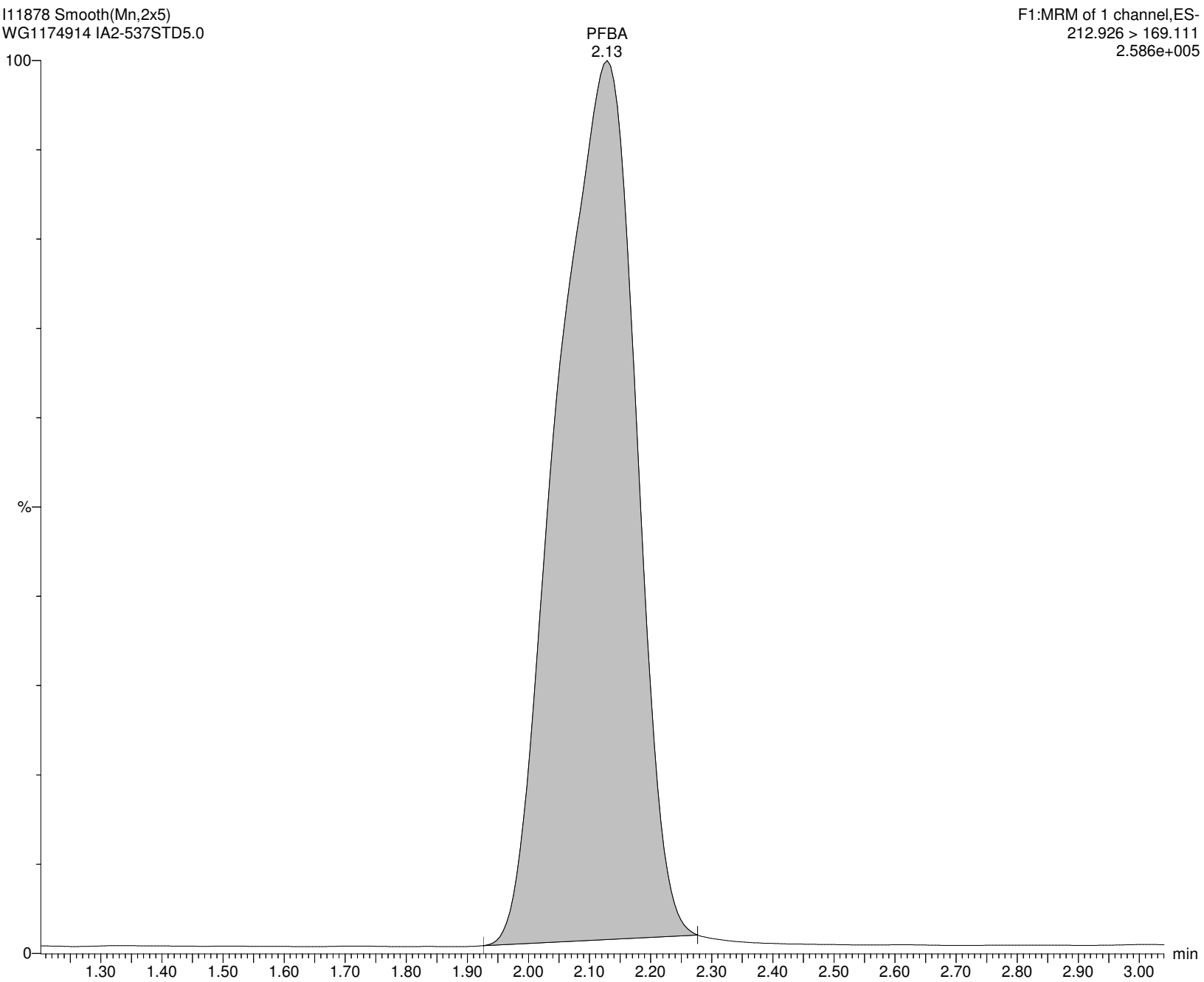

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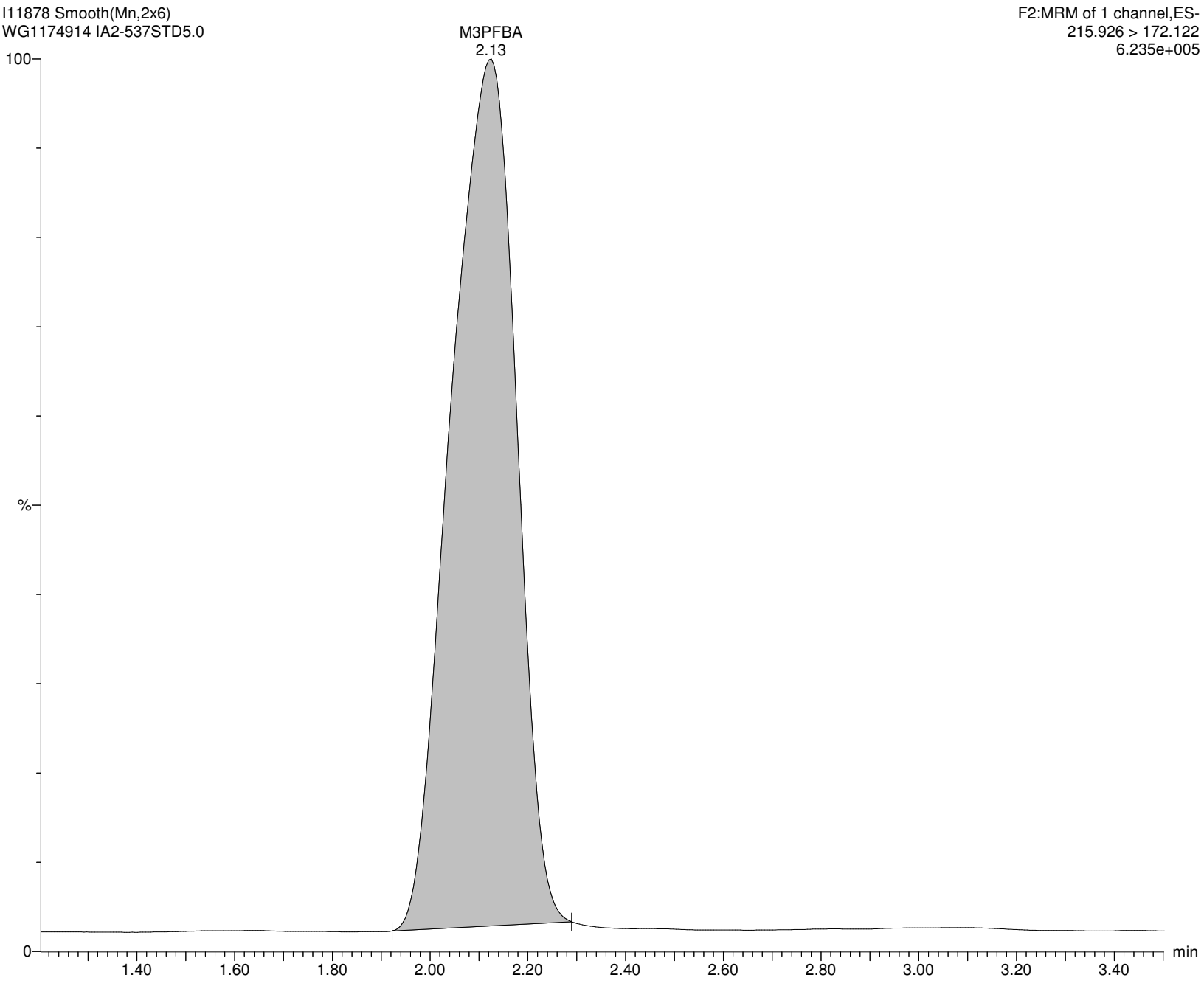
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:18 Eastern Daylight Time

Name: I11878
ID: IA2-537STD5.0
Date: 01-Nov-2018
Time: 17:02:14
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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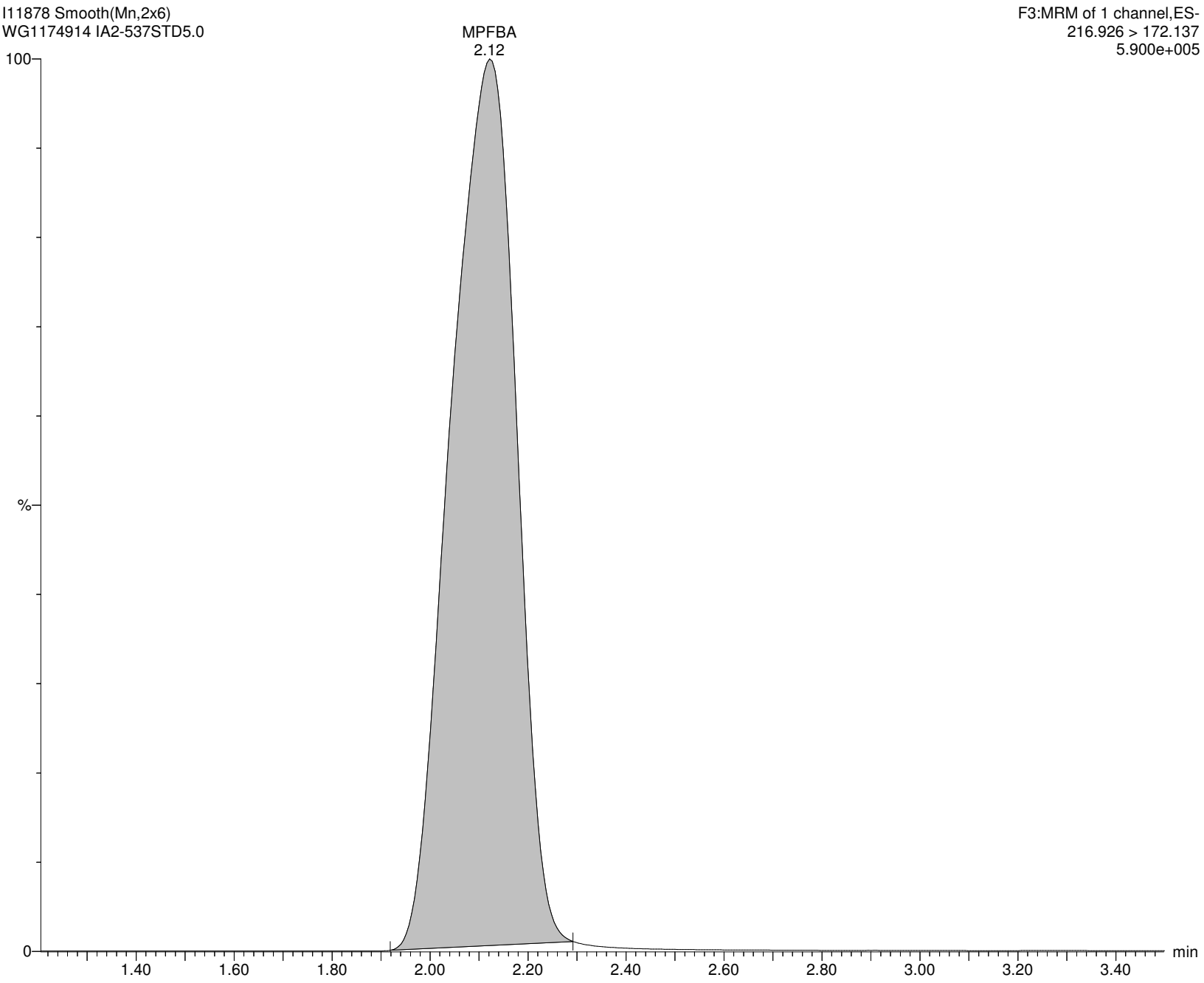

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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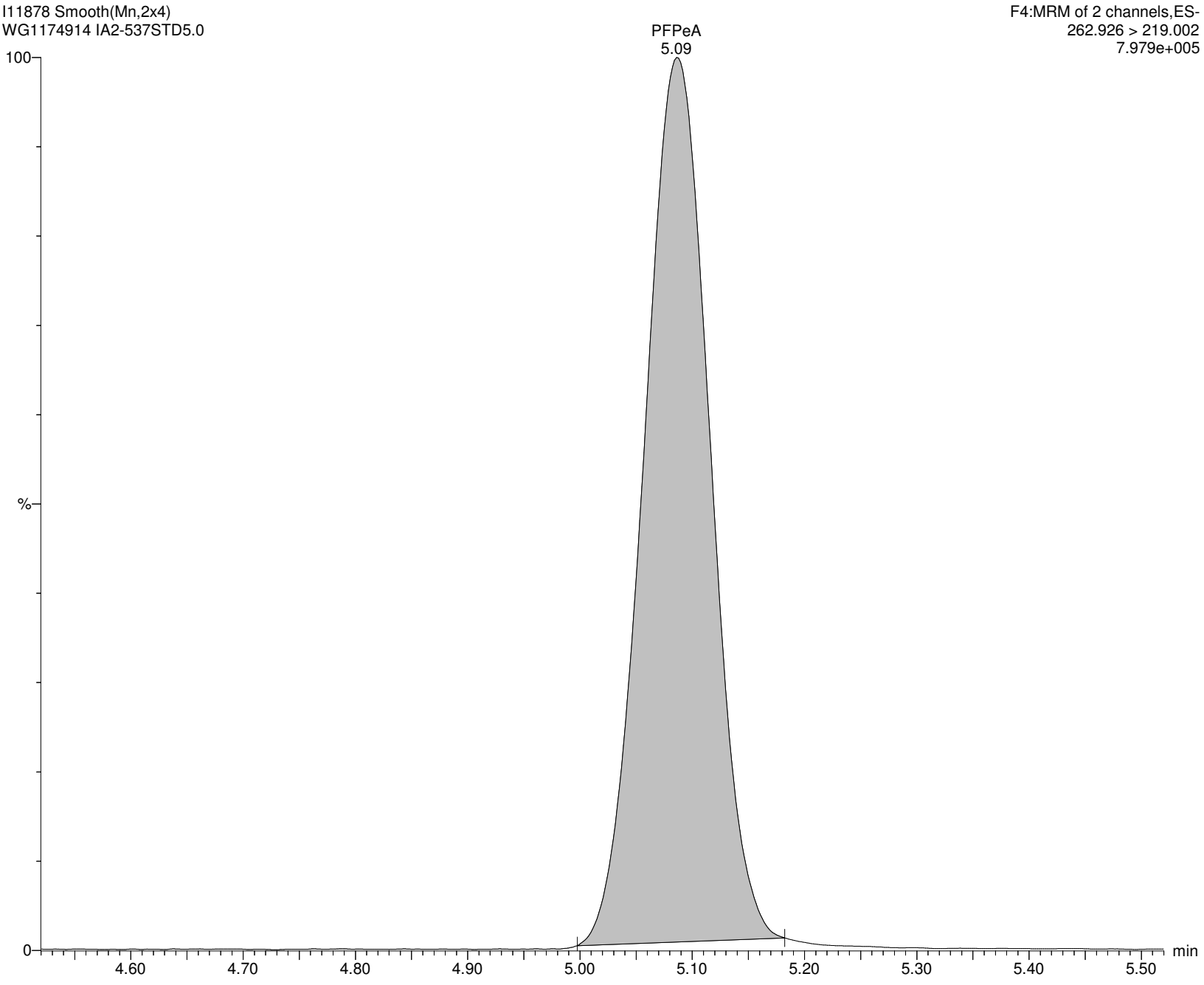

all concentration units in (ng/mL)

Alpha Analytical Inc.
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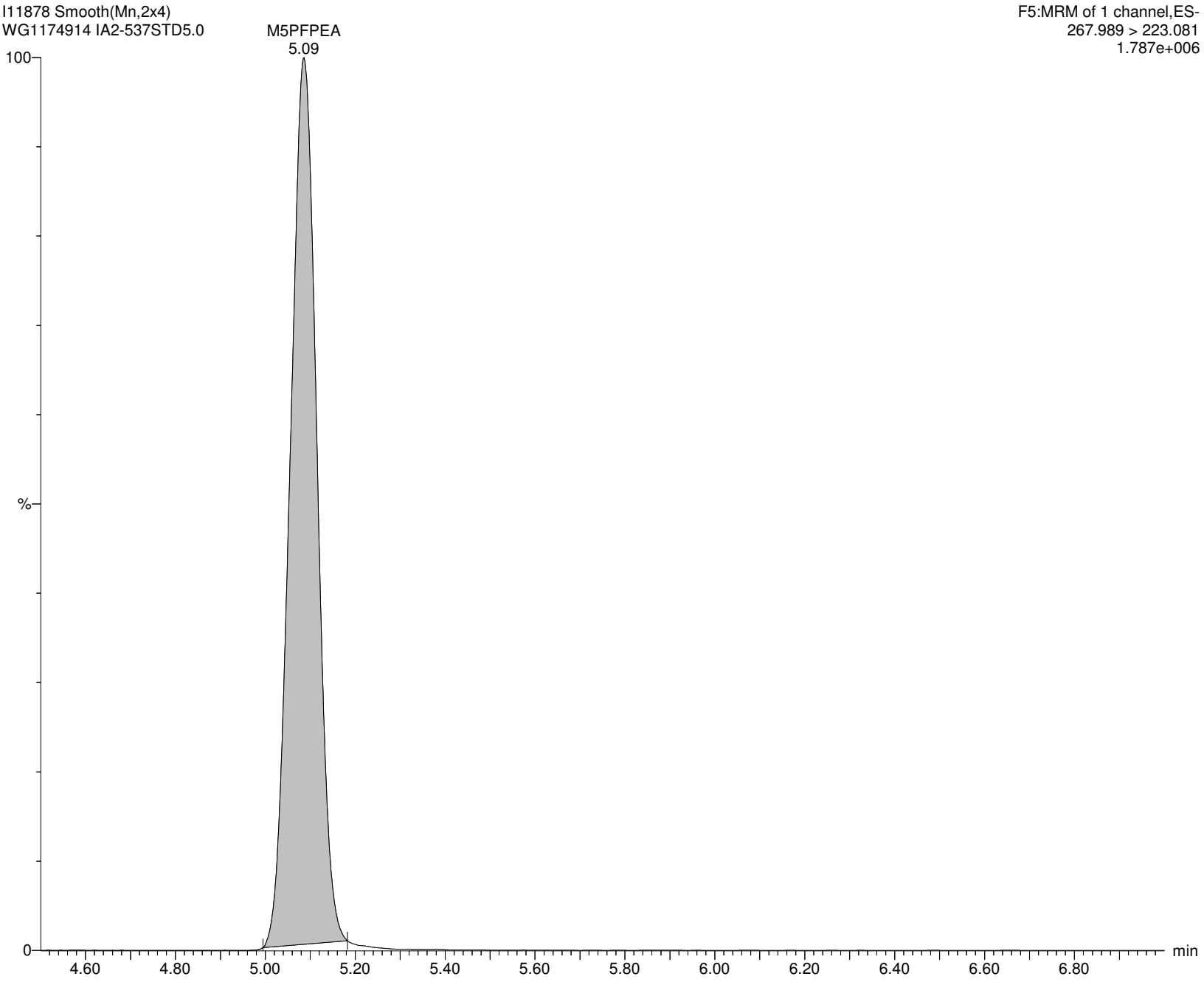

all concentration units in (ng/mL)

Alpha Analytical Inc.
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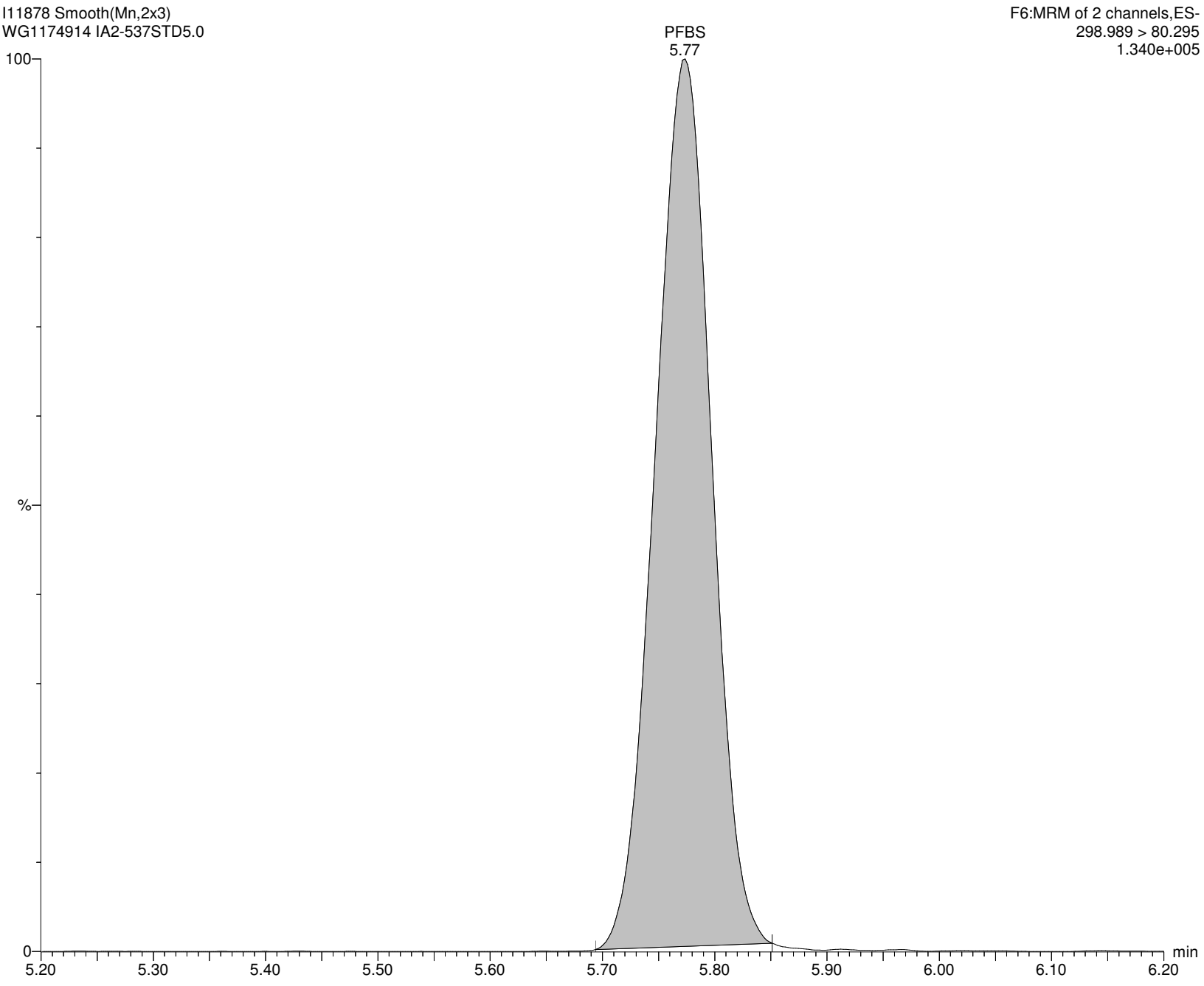

all concentration units in (ng/mL)

Alpha Analytical Inc.
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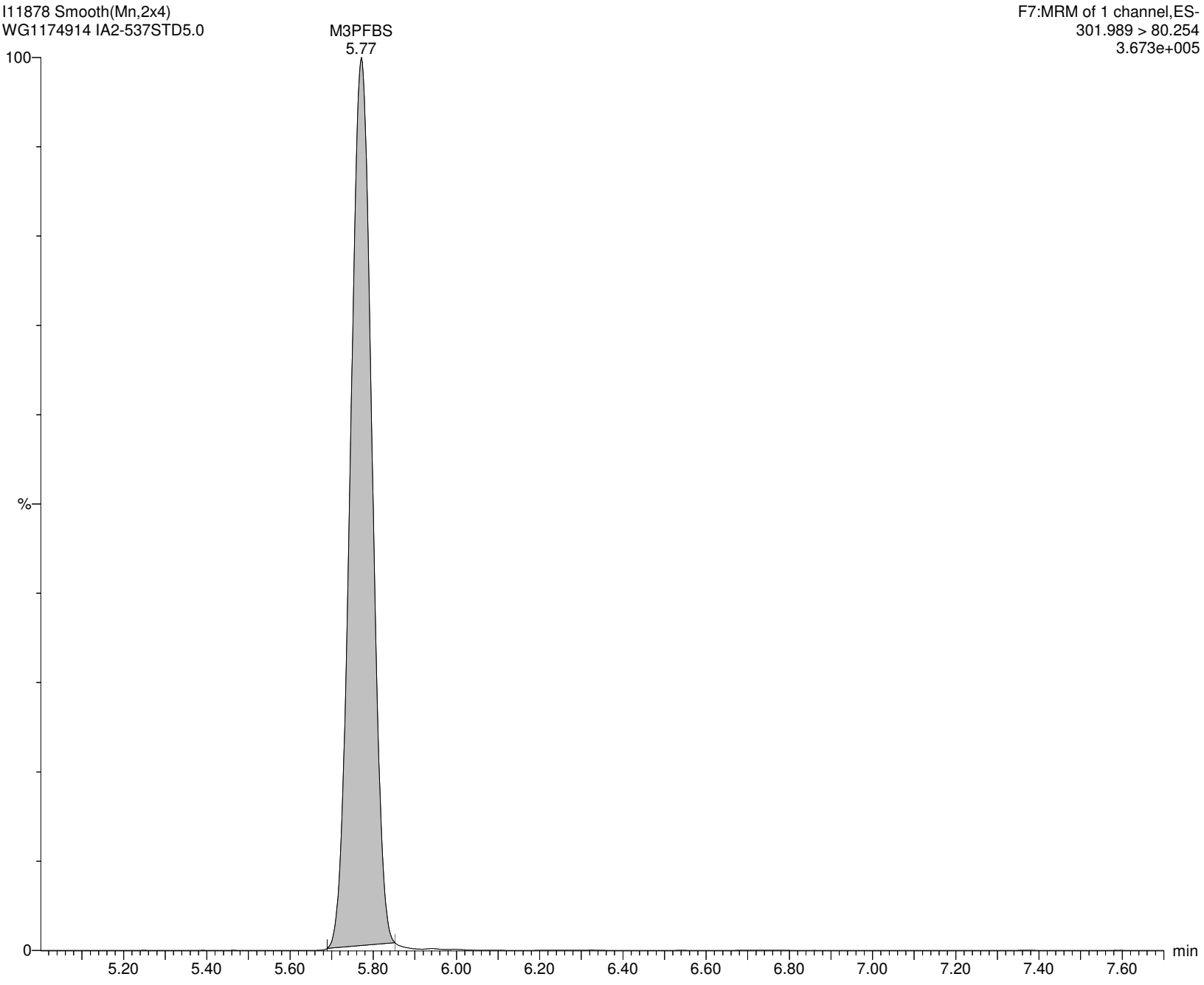

all concentration units in (ng/mL)

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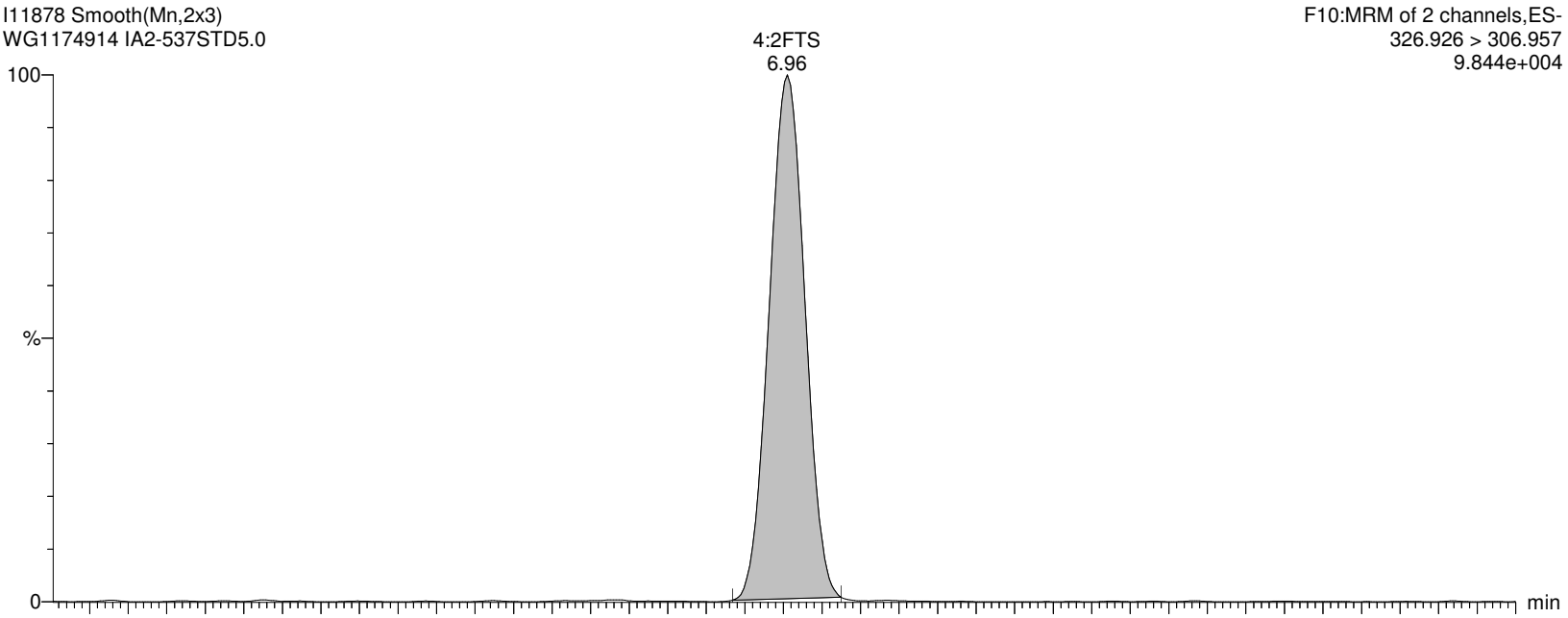
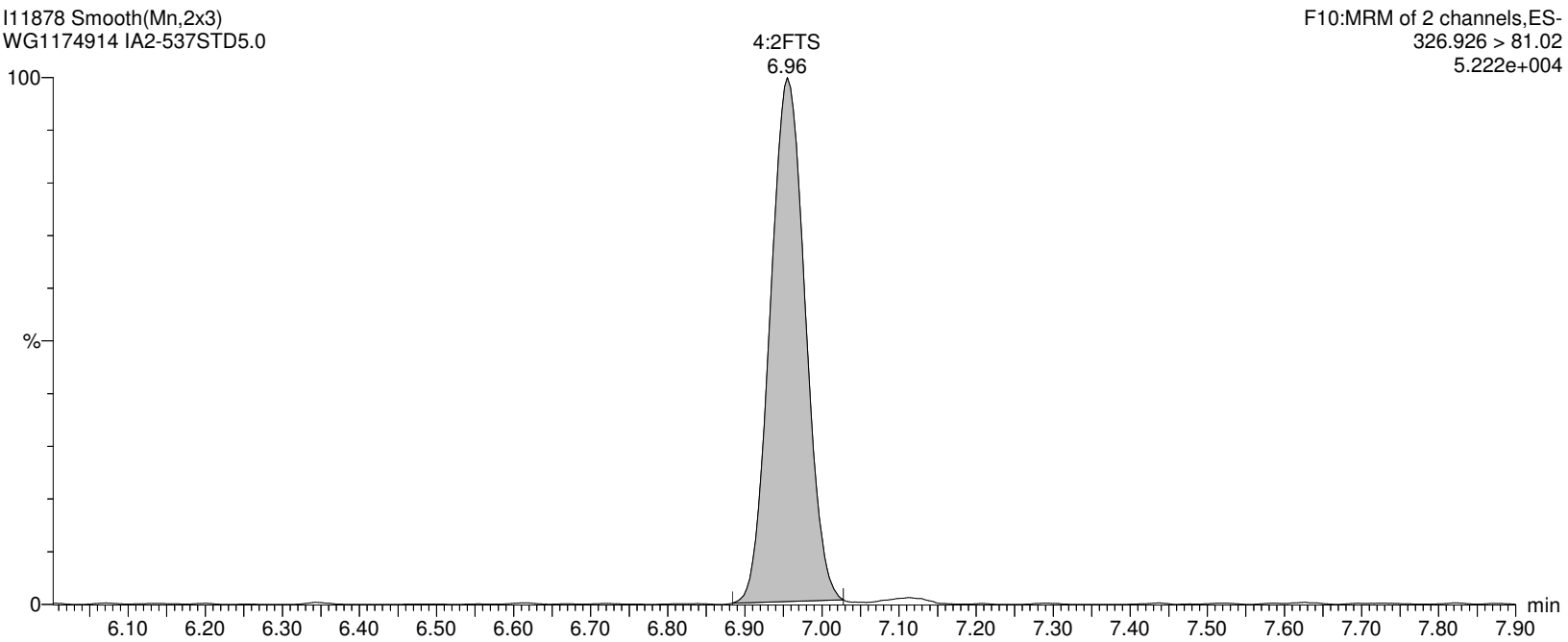
4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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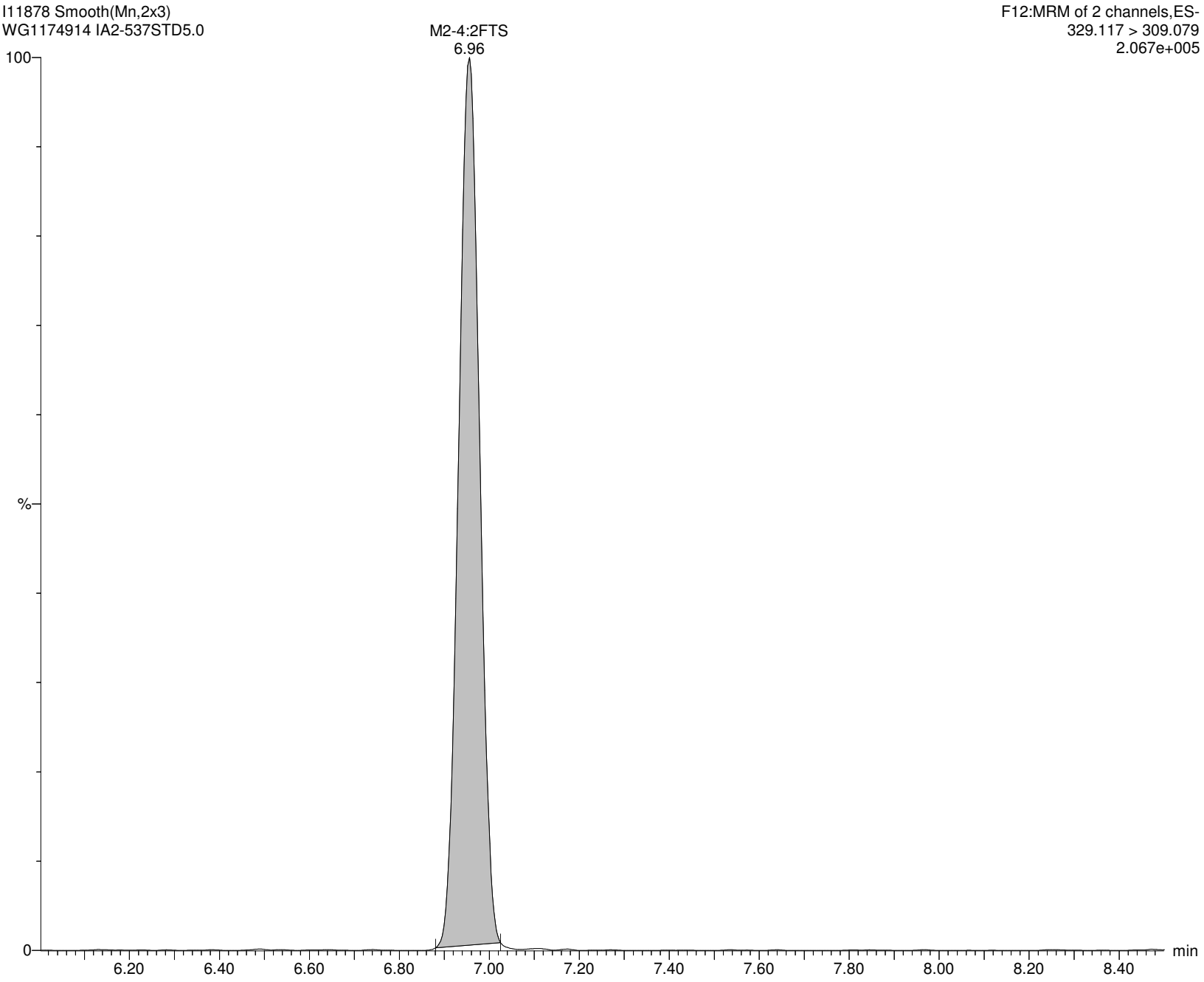
M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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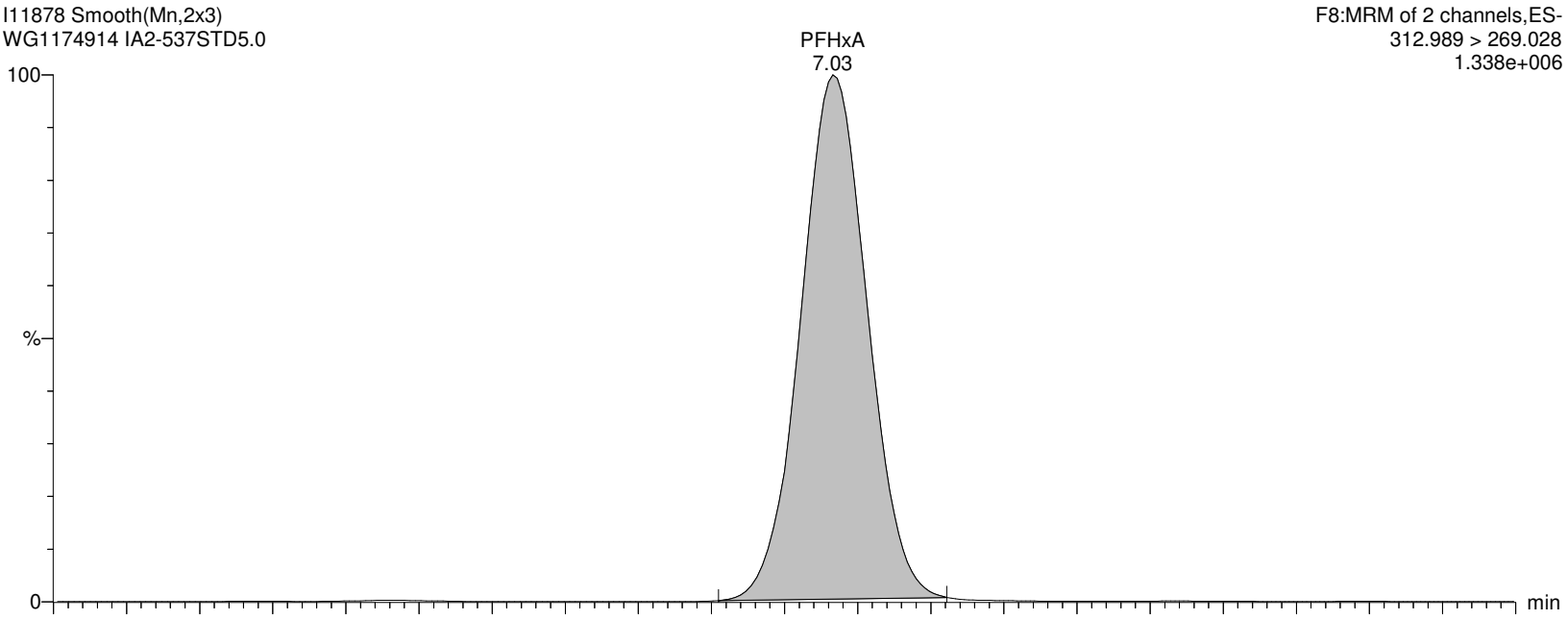

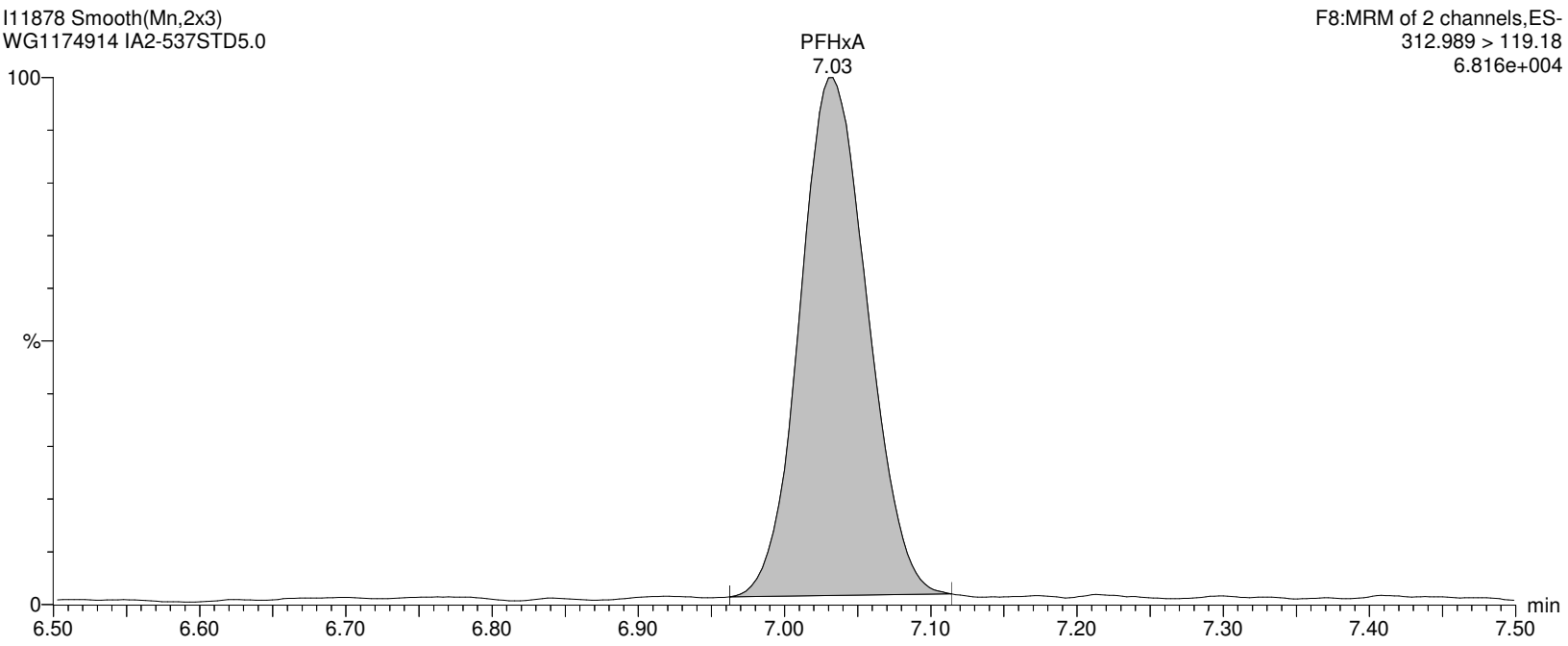

all concentration units in (ng/mL)

Alpha Analytical Inc.
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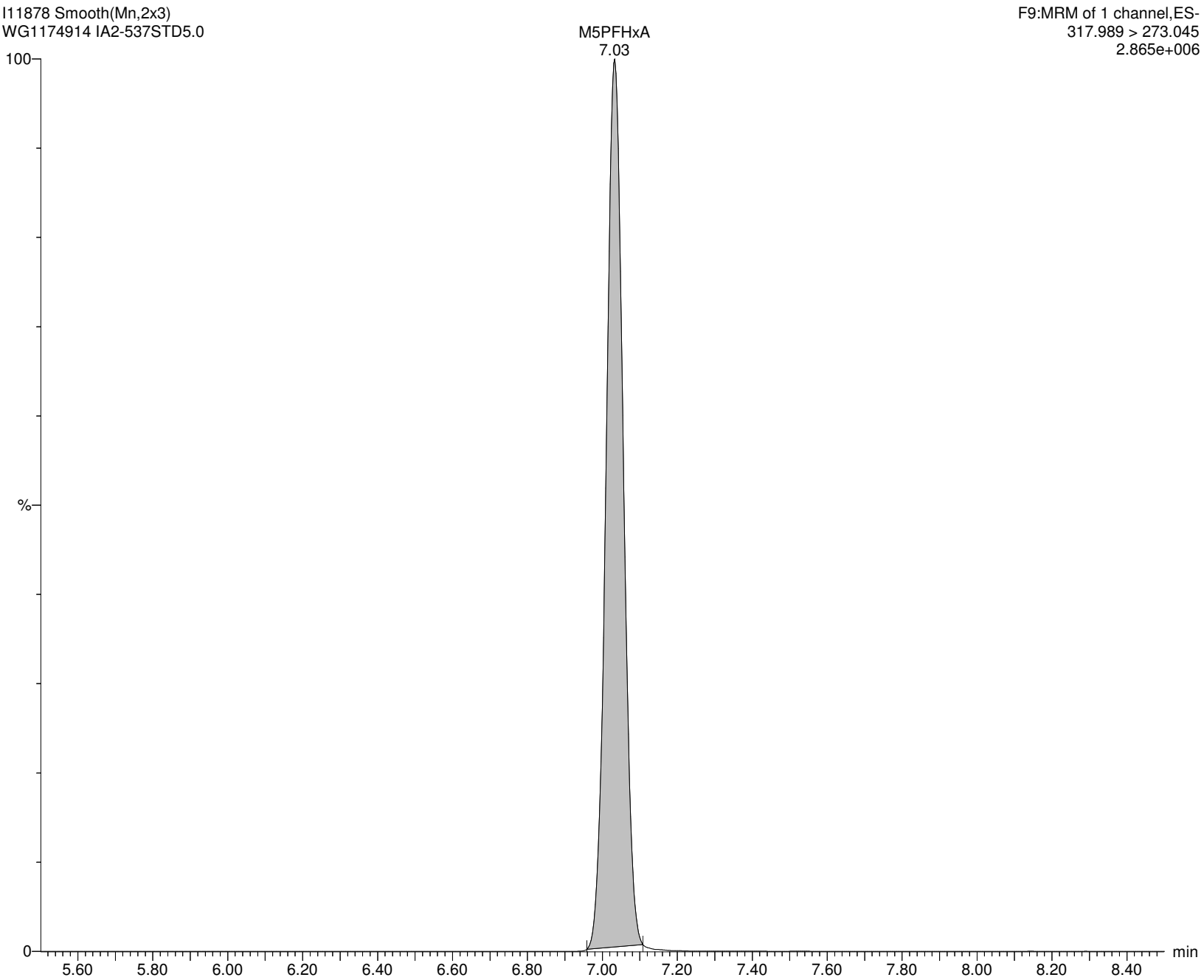

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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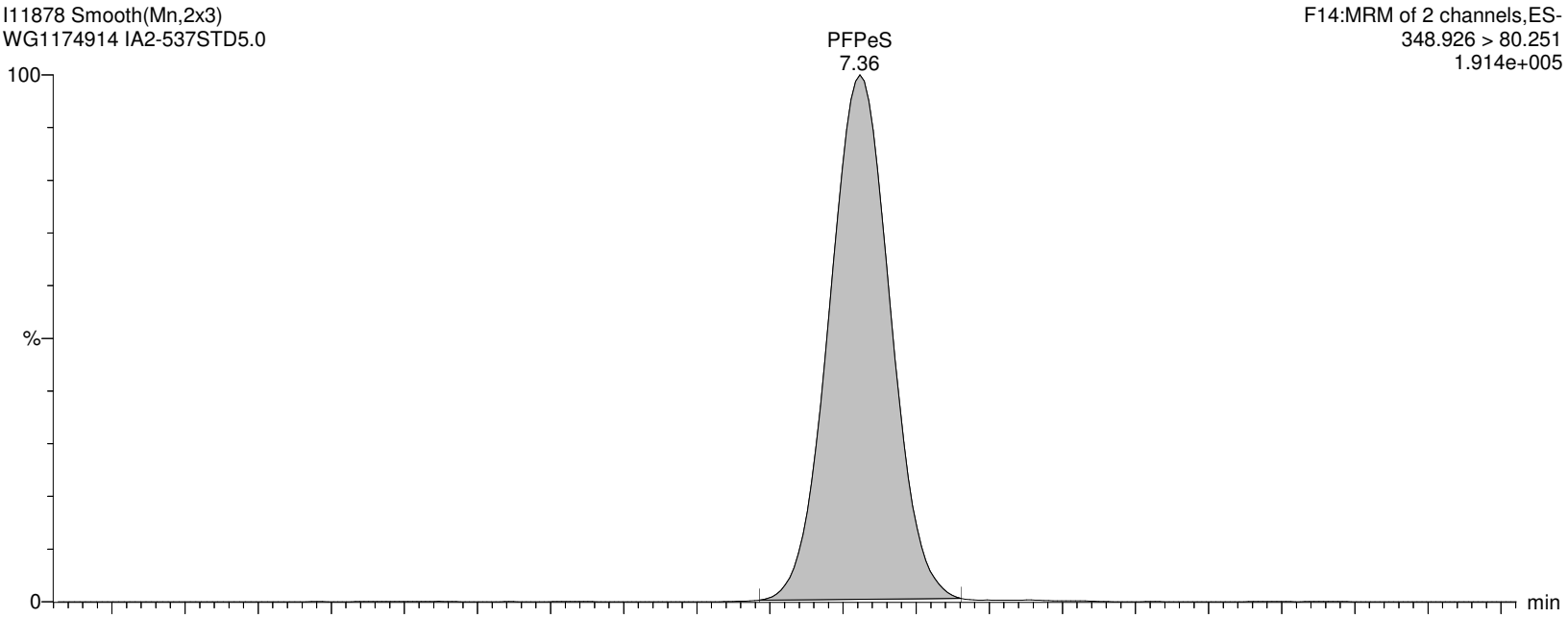

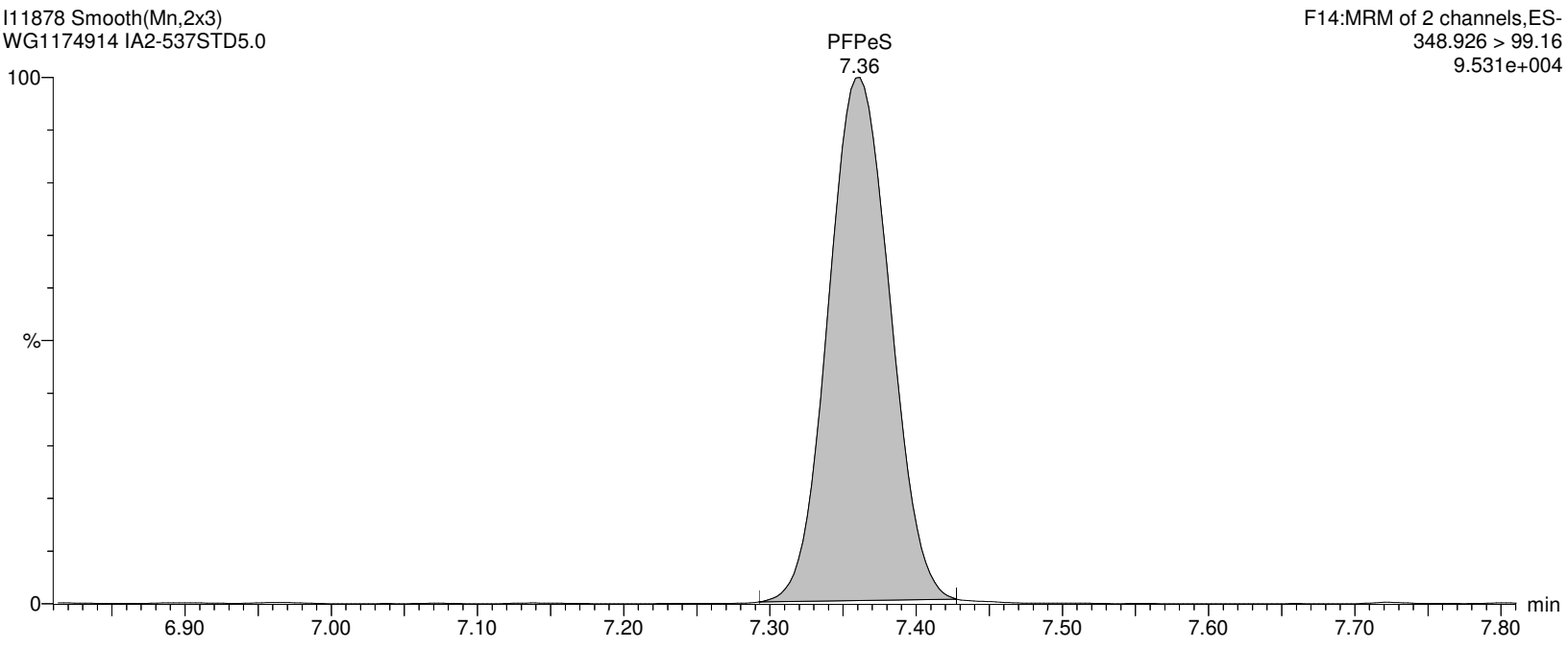

all concentration units in (ng/mL)

Alpha Analytical Inc.
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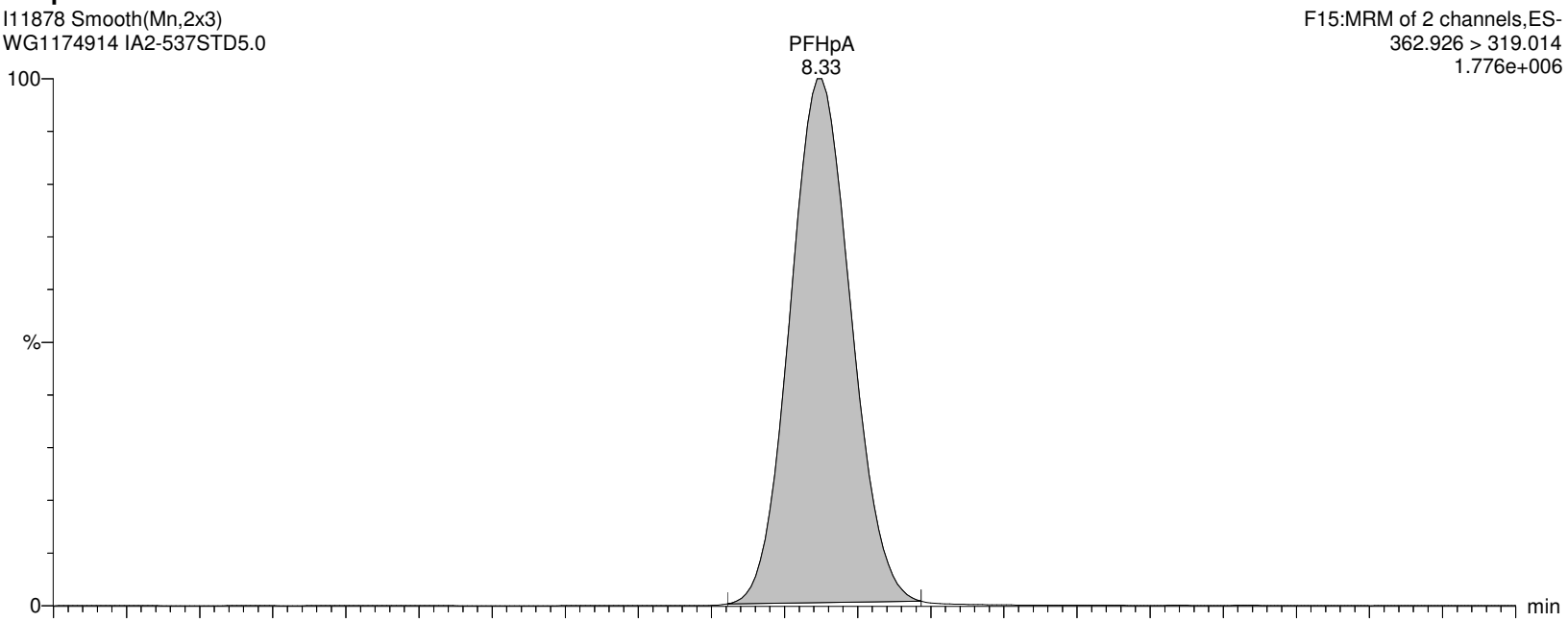

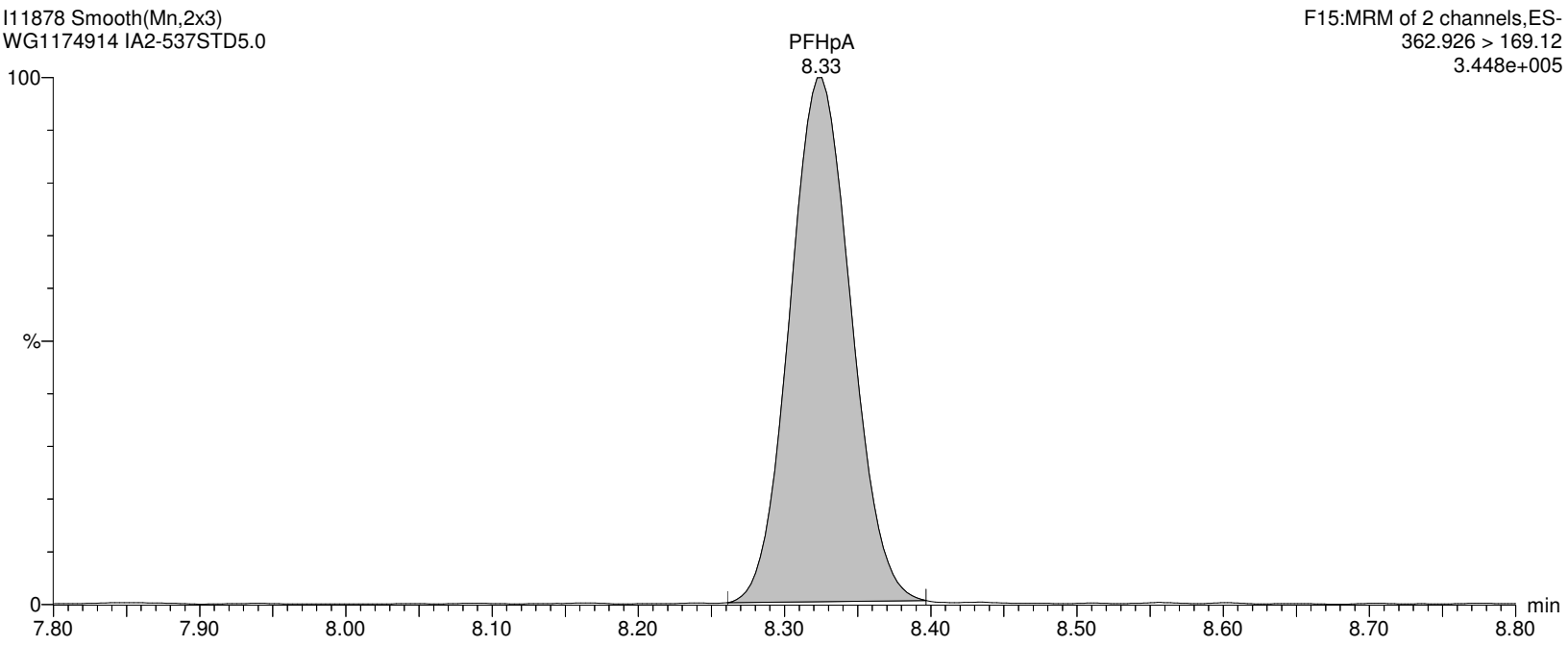

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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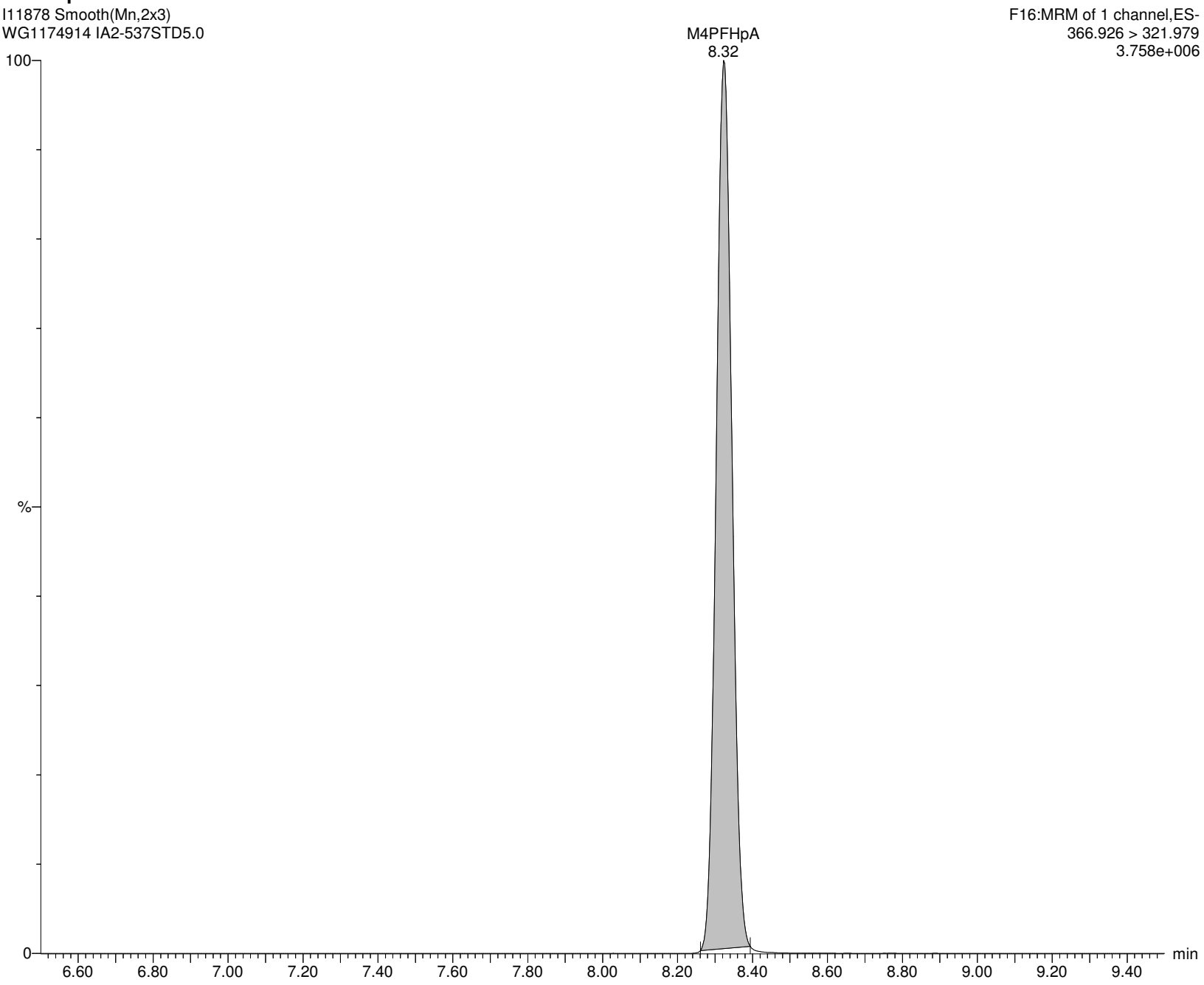
M4PFHpA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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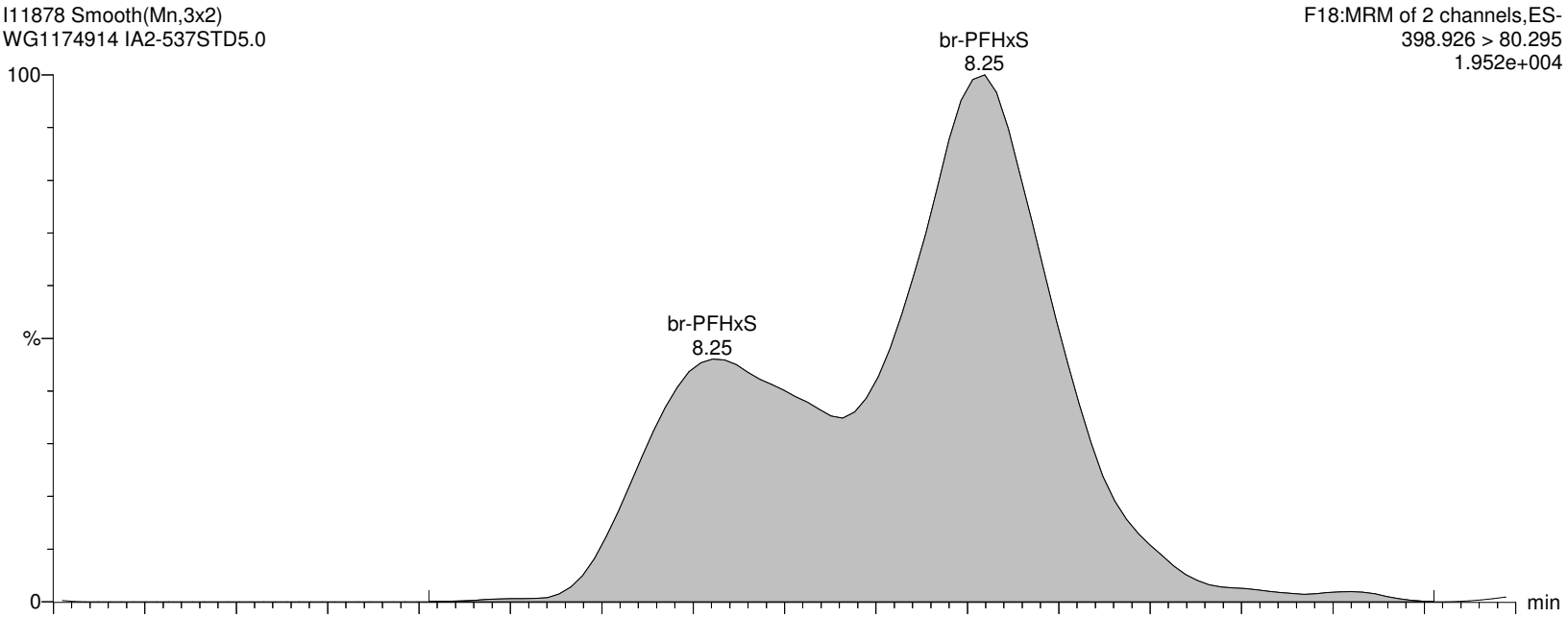

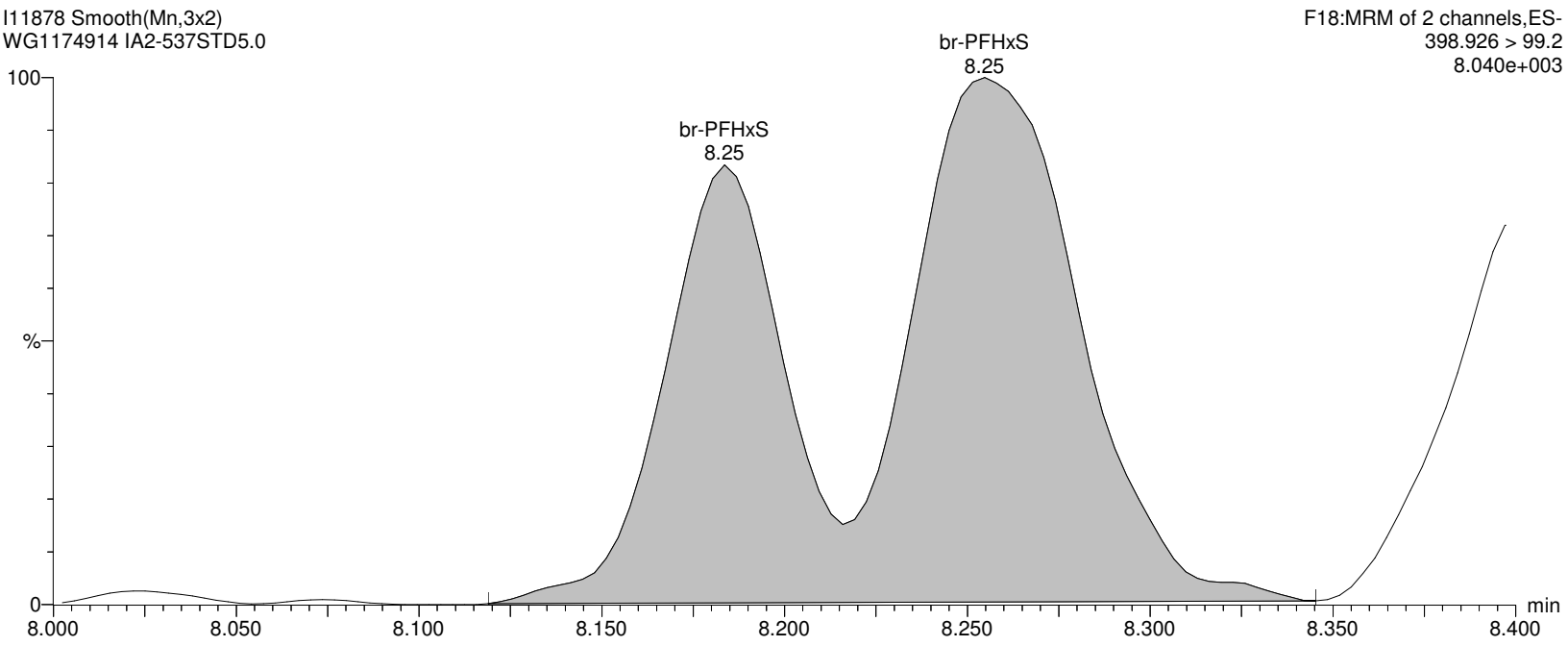

all concentration units in (ng/mL)

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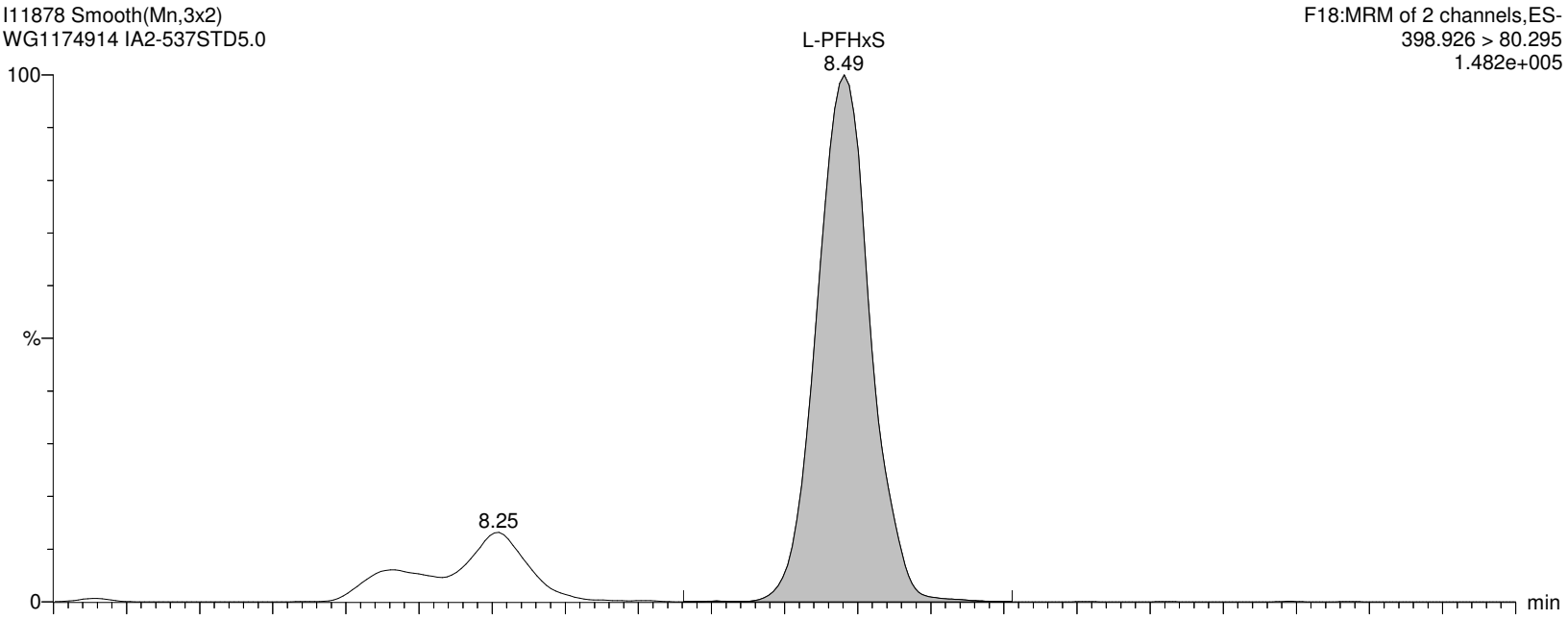
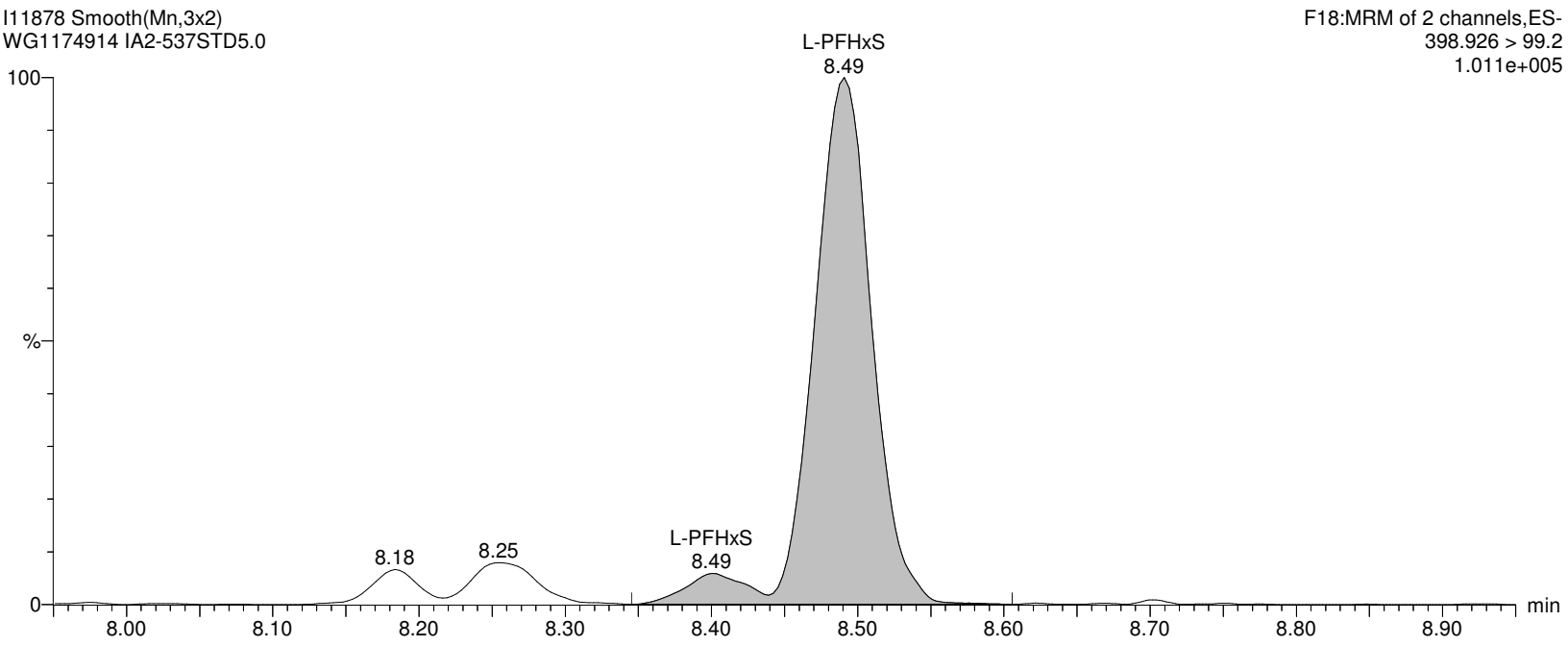
L-PFHxS





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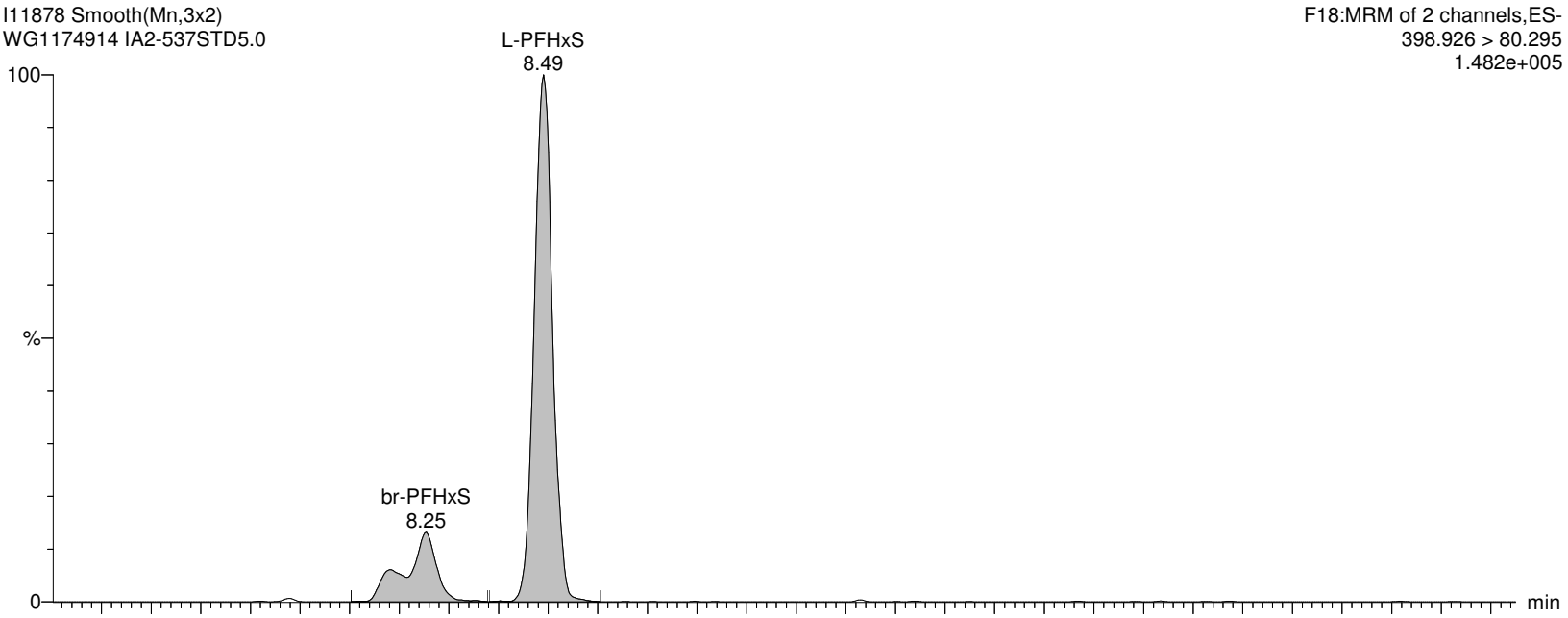

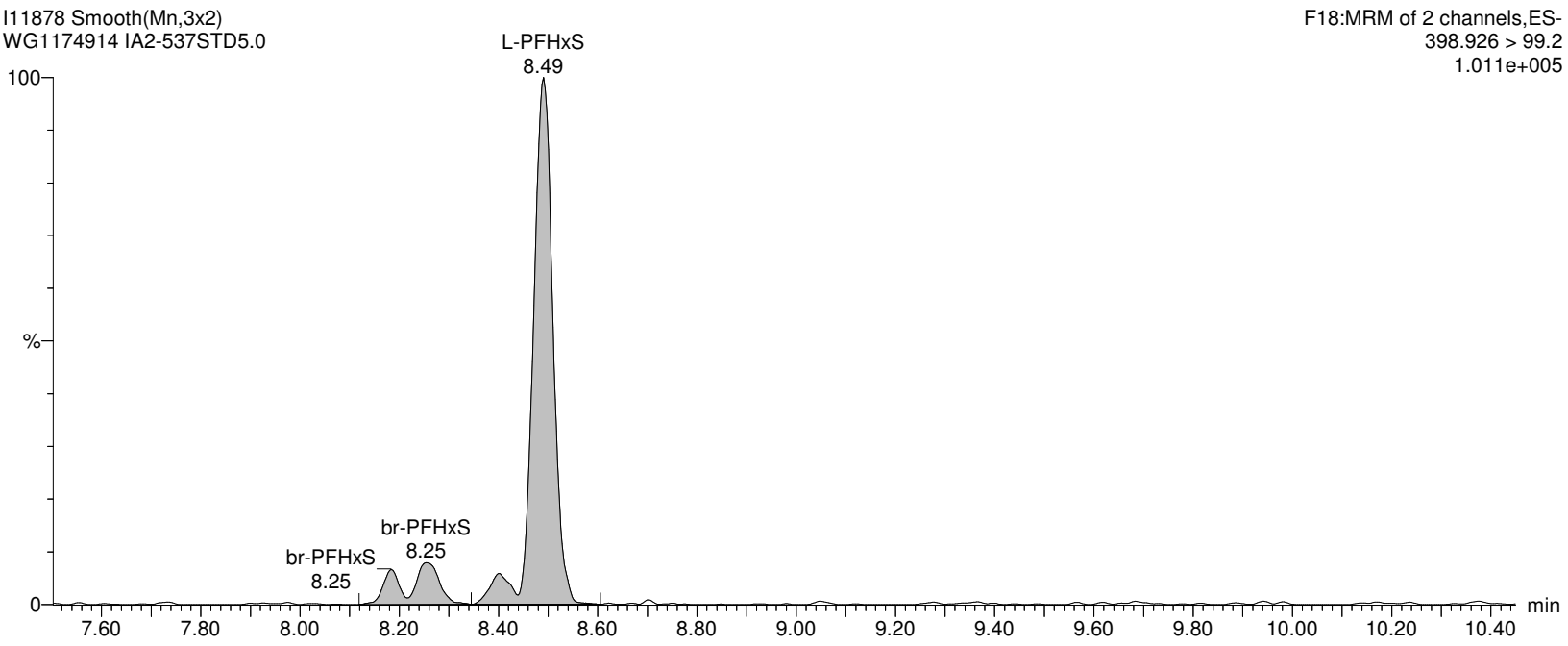

all concentration units in (ng/mL)

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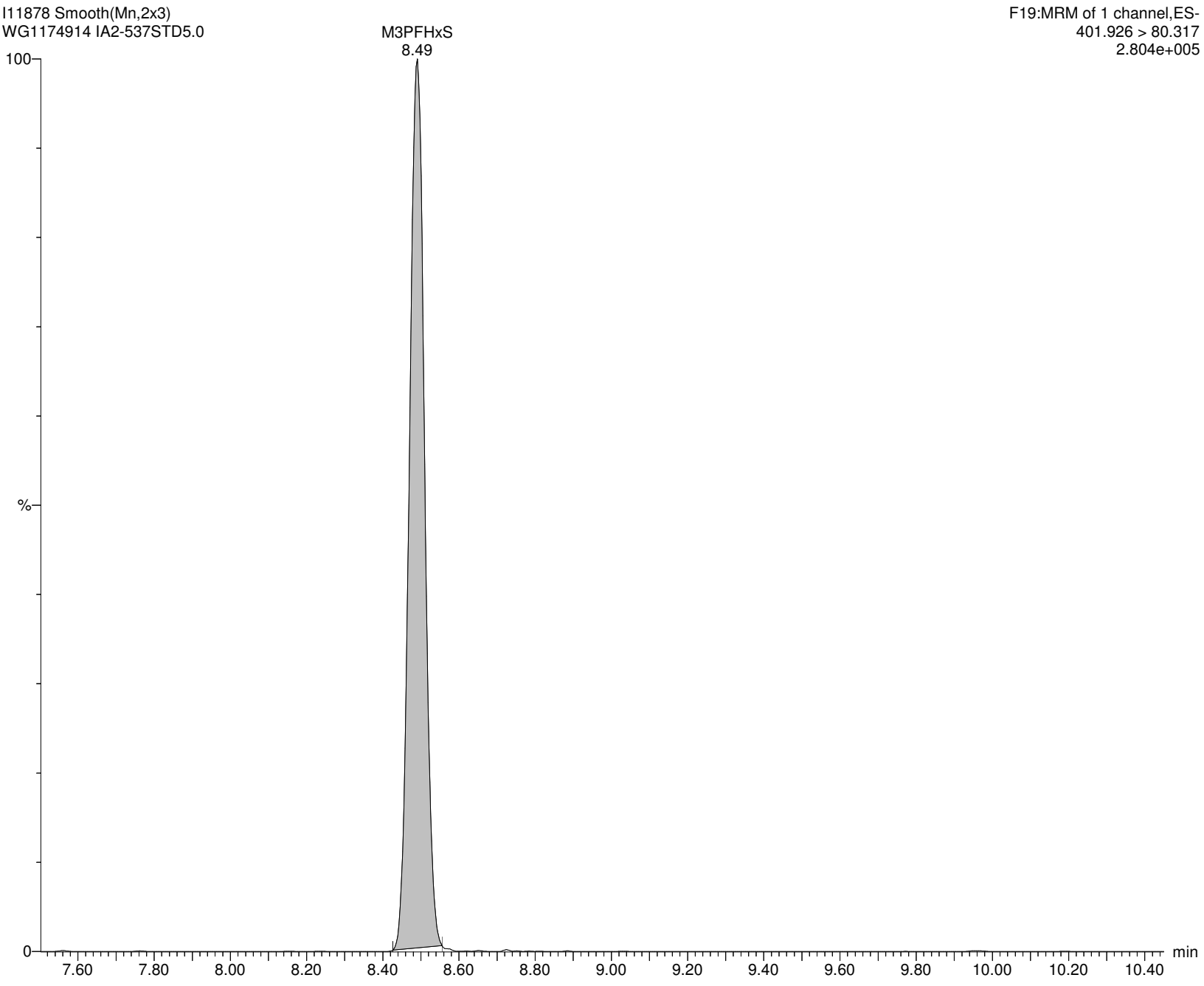

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, November 01, 2018 20:30:18 Eastern Daylight Time

Name: I11878
ID: IA2-537STD5.0
Date: 01-Nov-2018
Time: 17:02:14
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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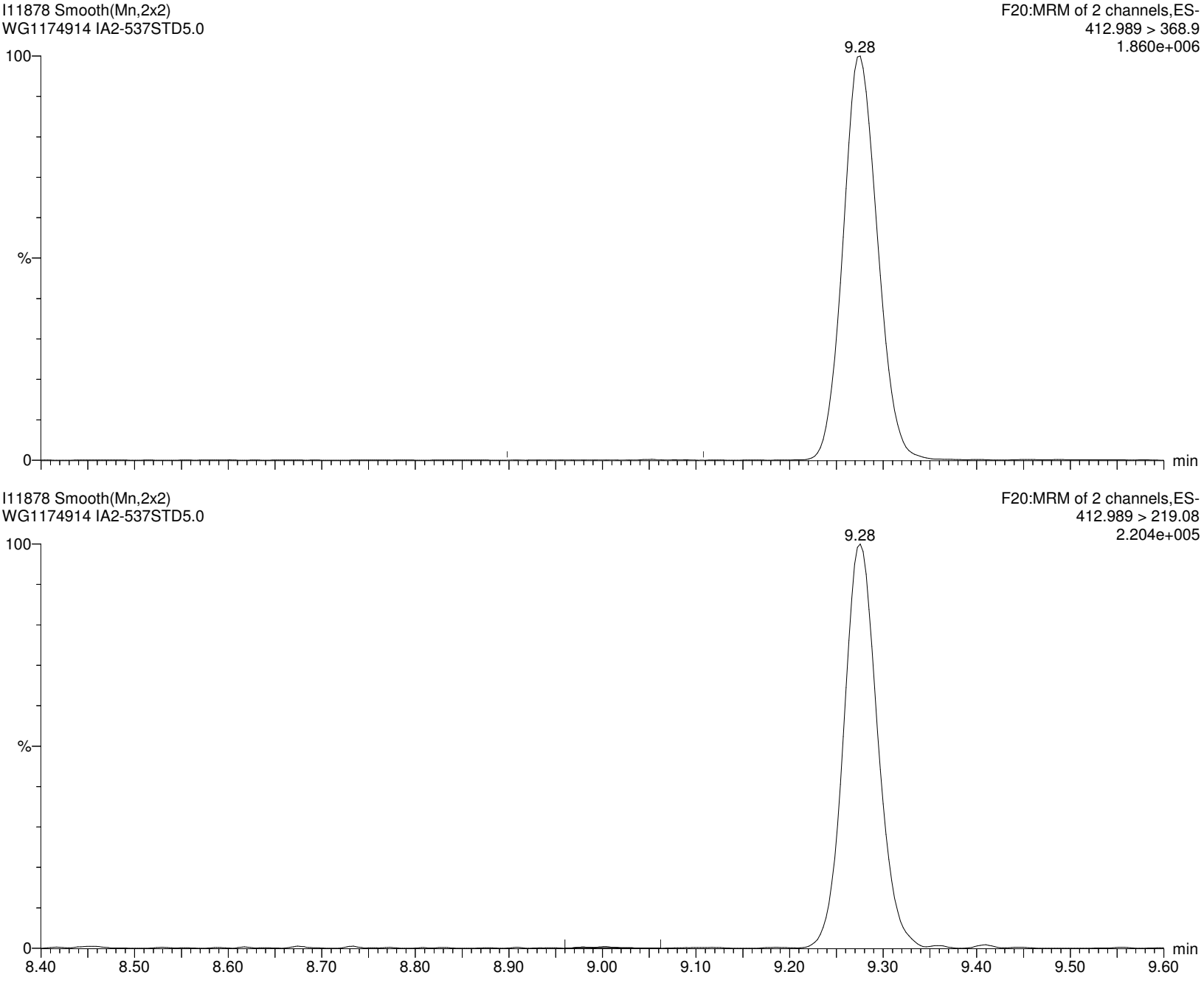

all concentration units in (ng/mL)

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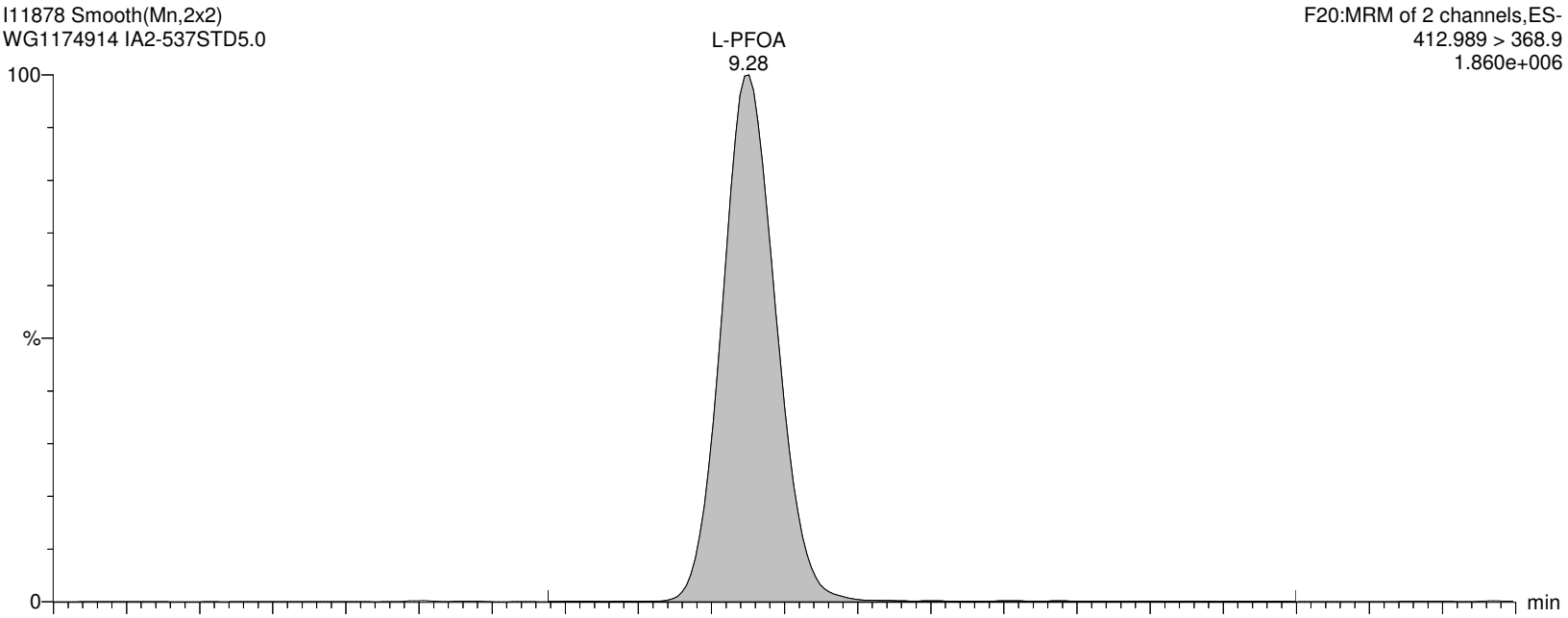

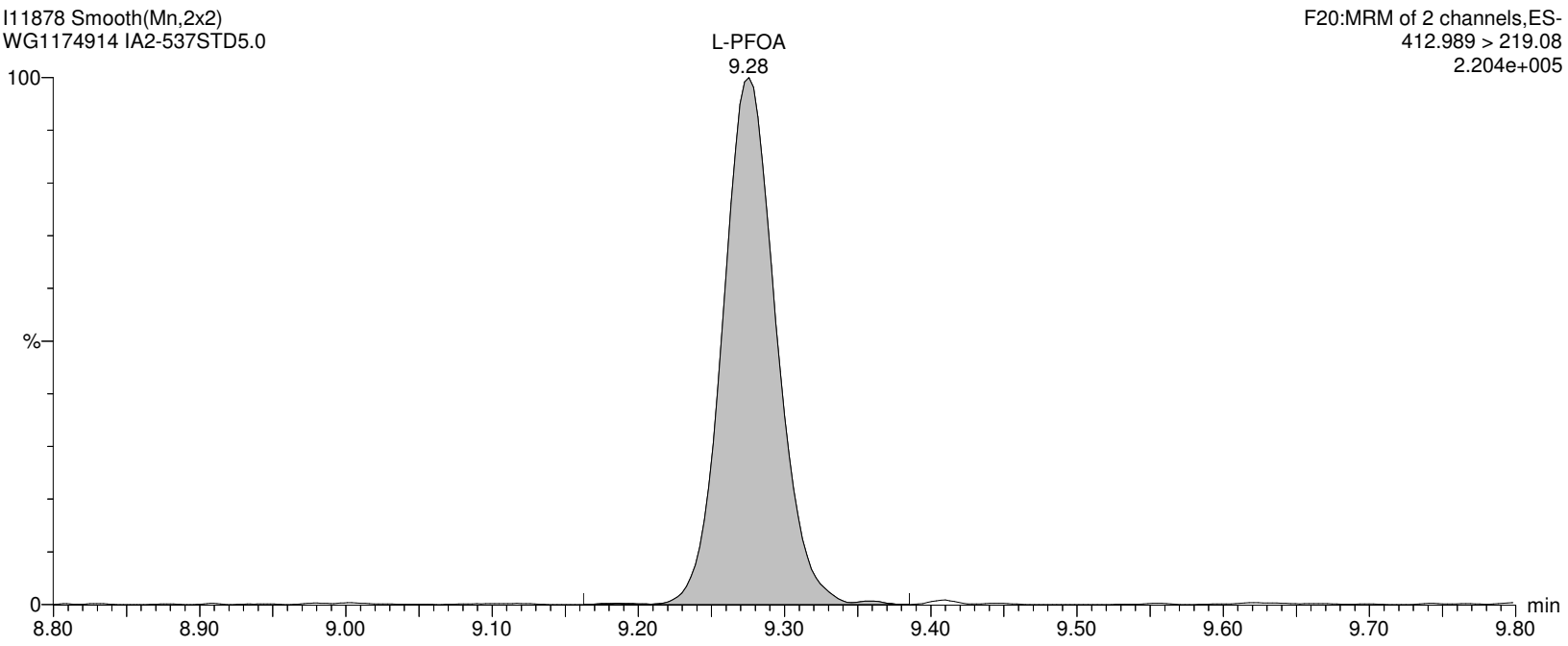

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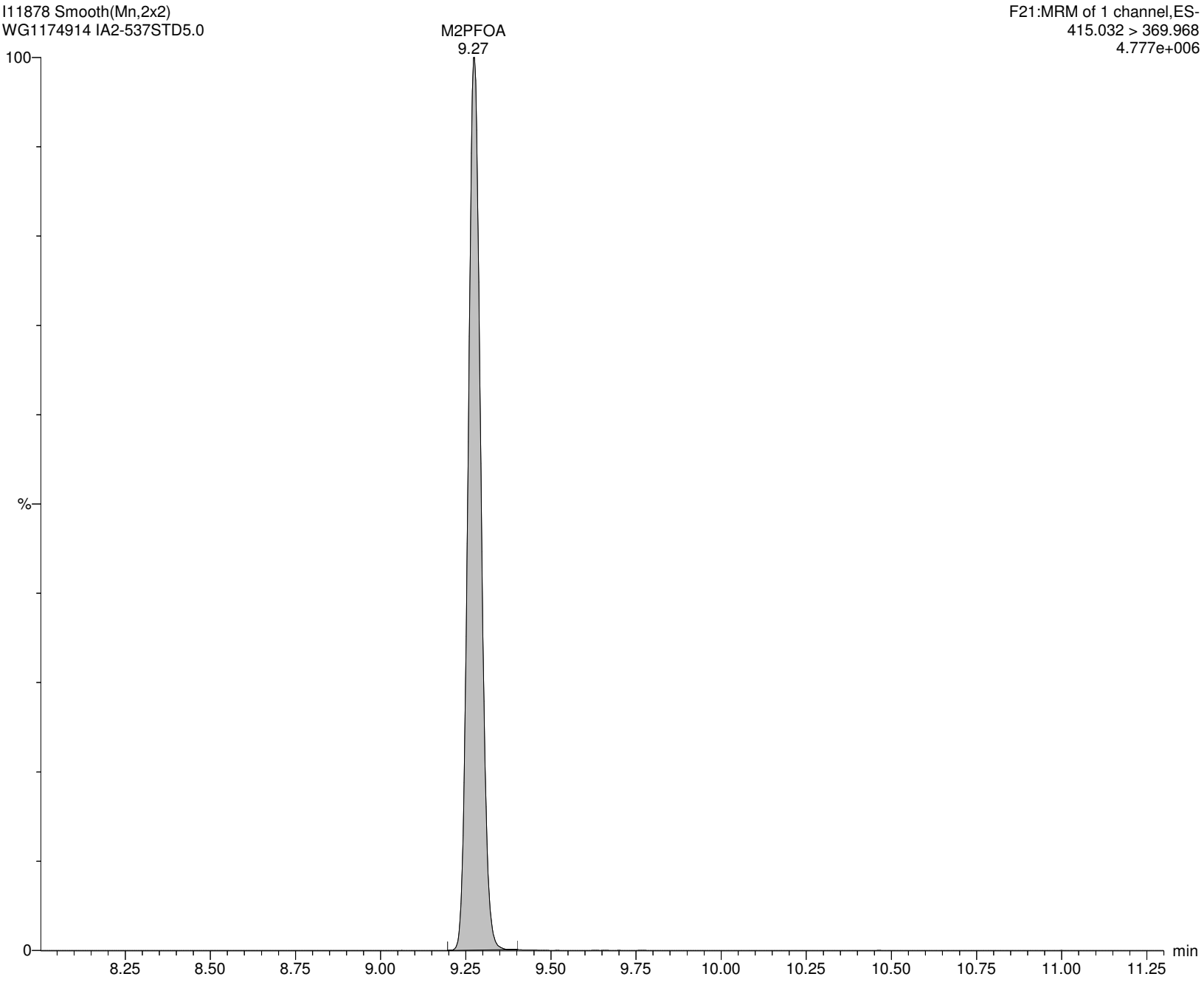

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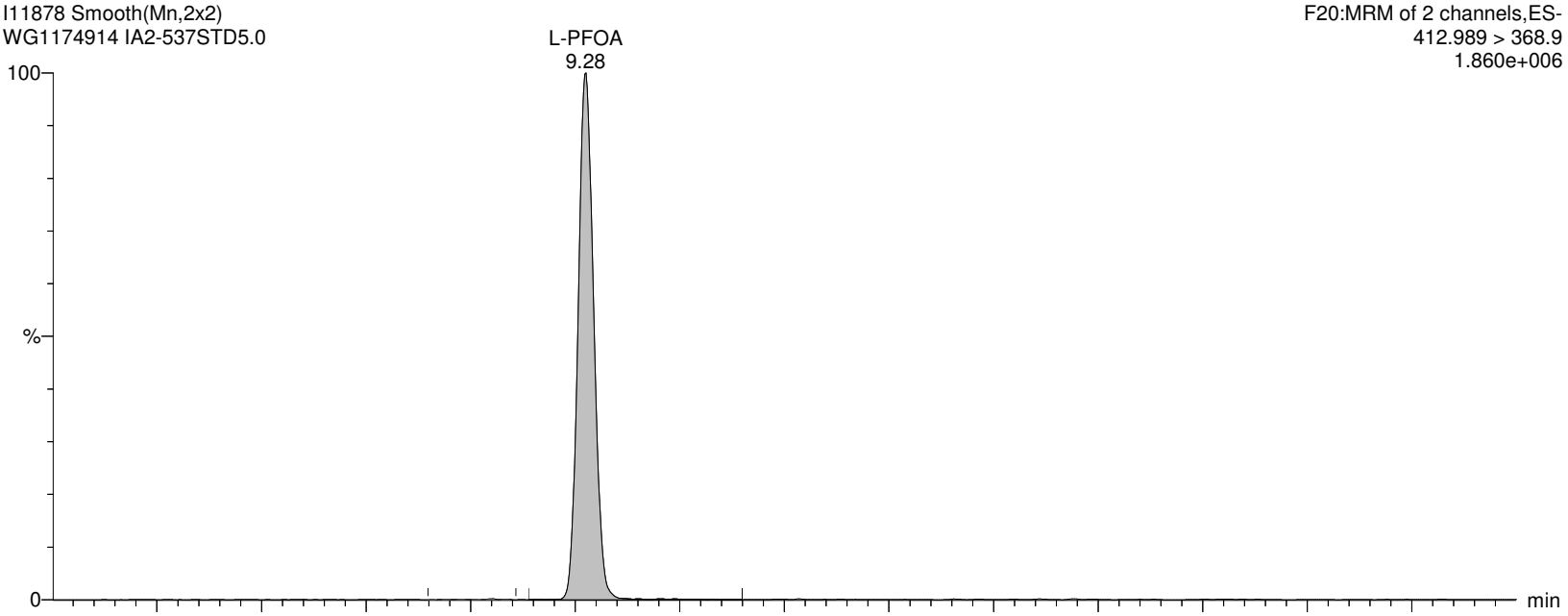

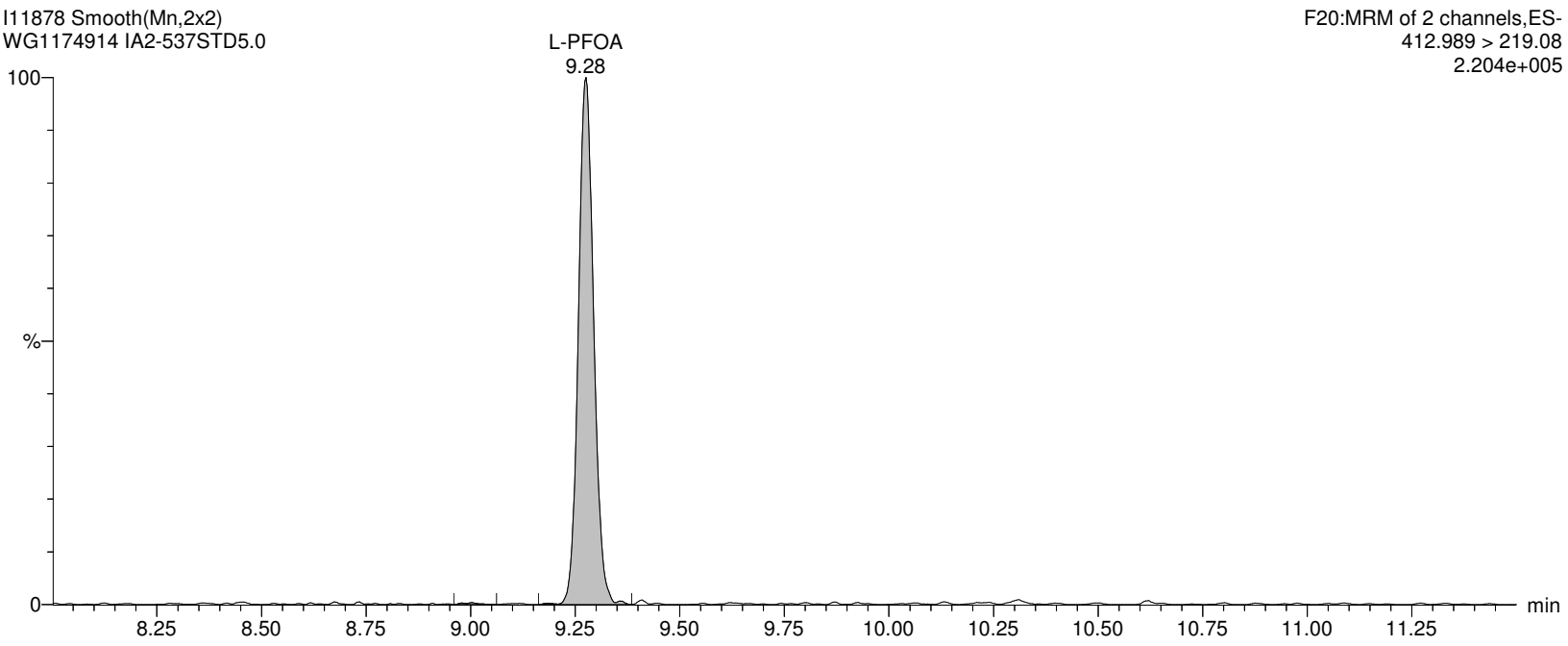

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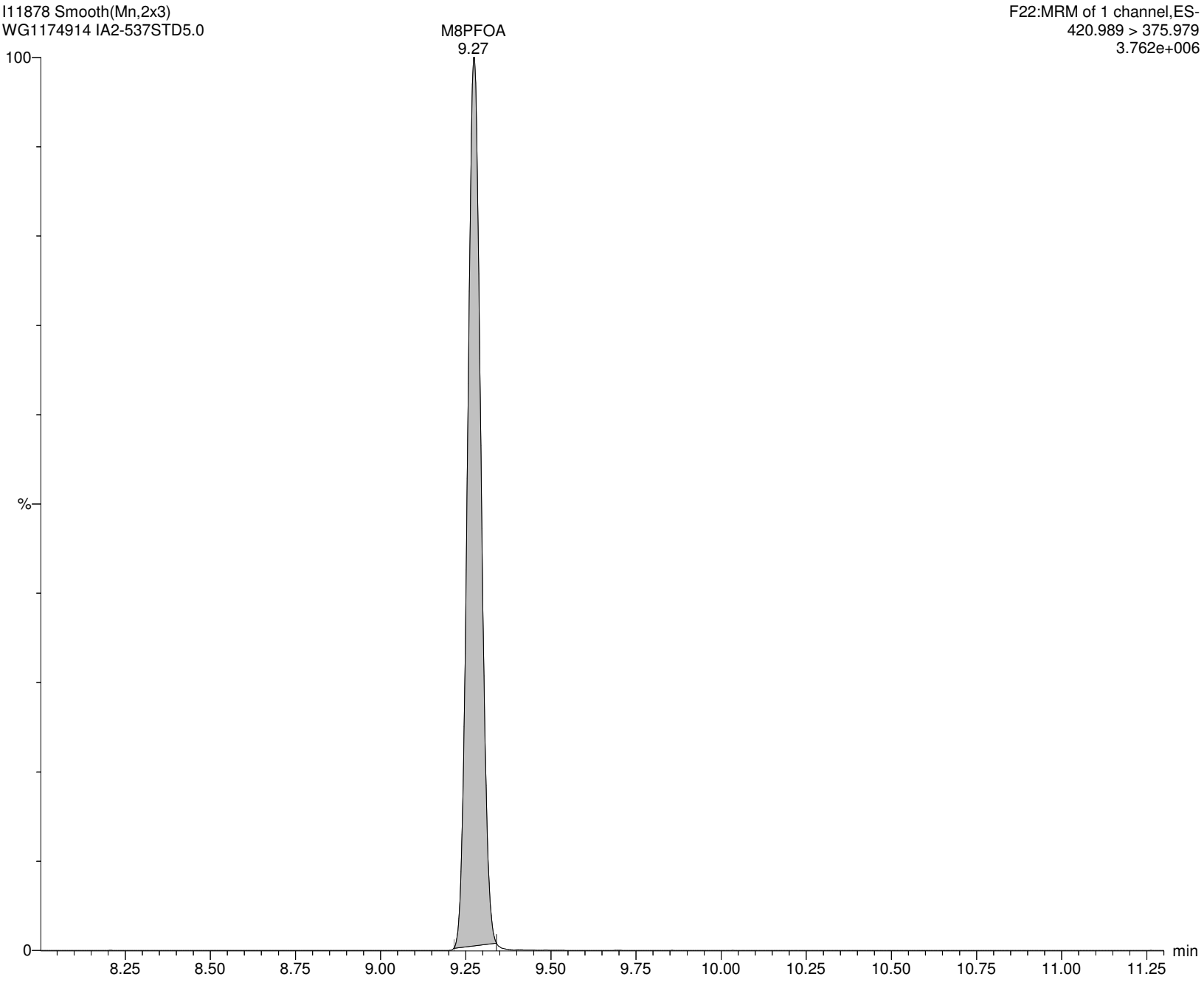

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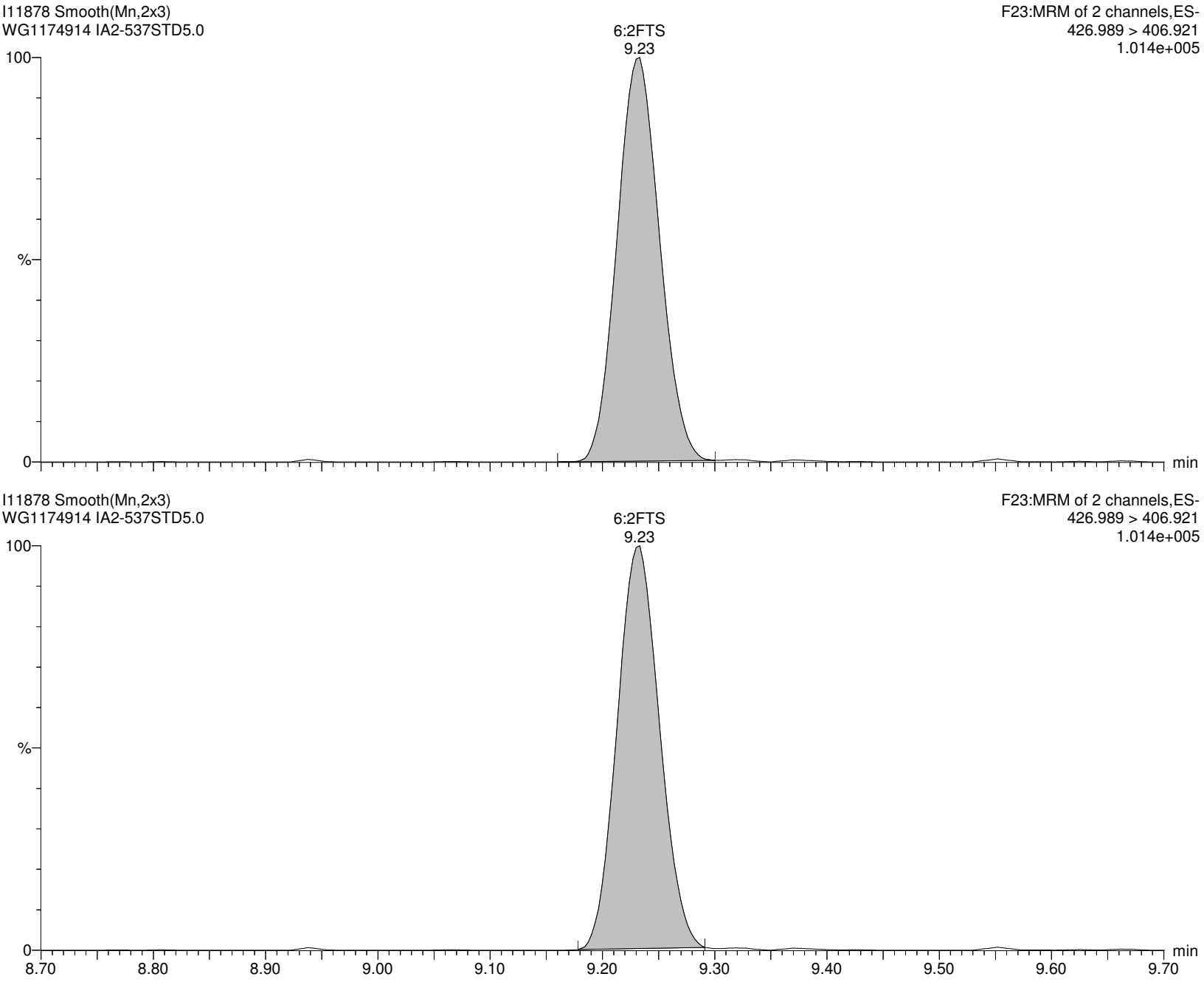

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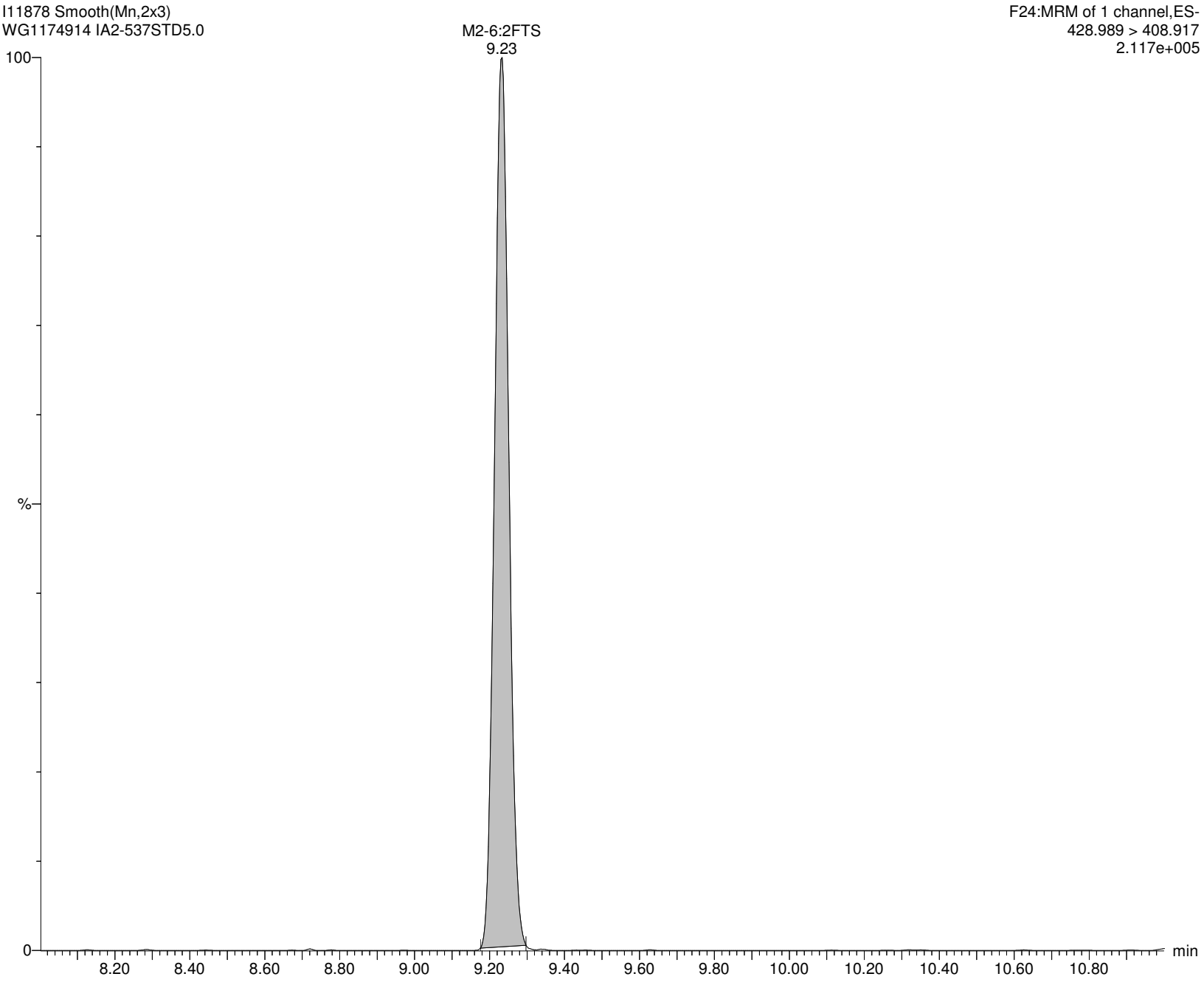

all concentration units in (ng/mL)

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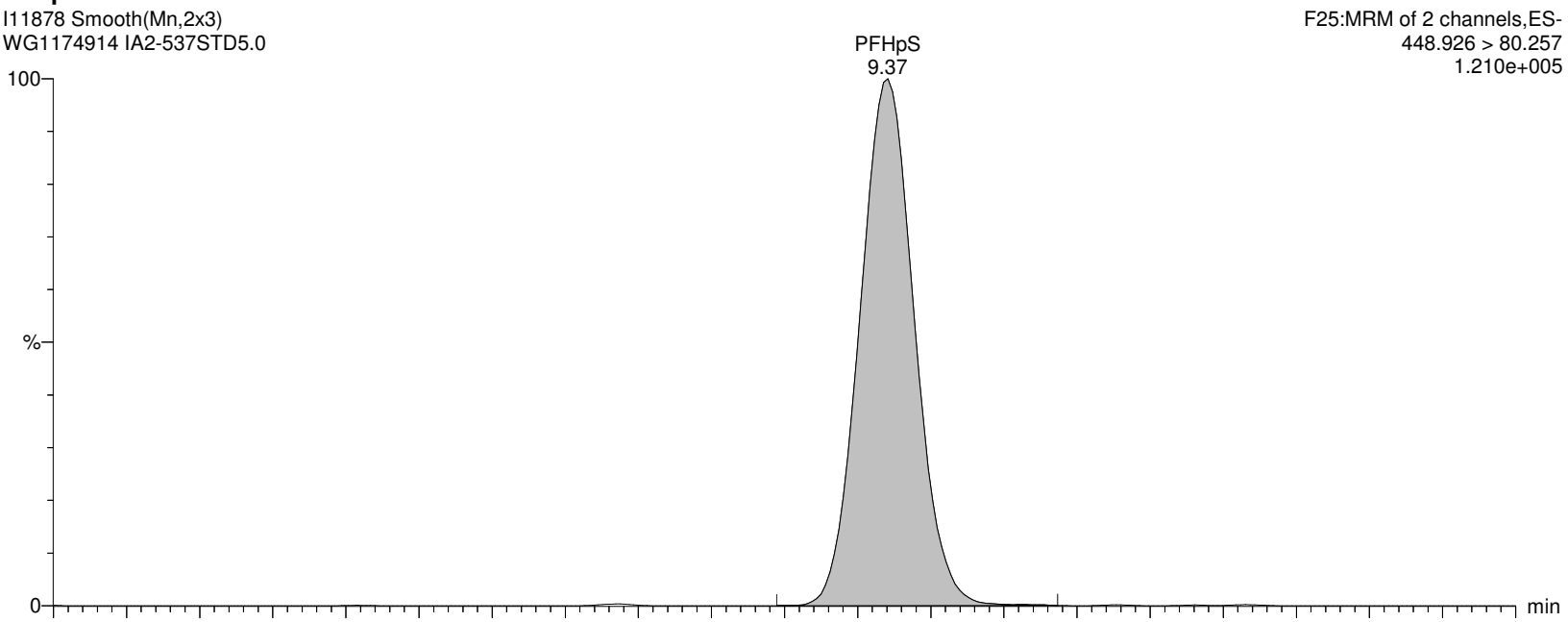

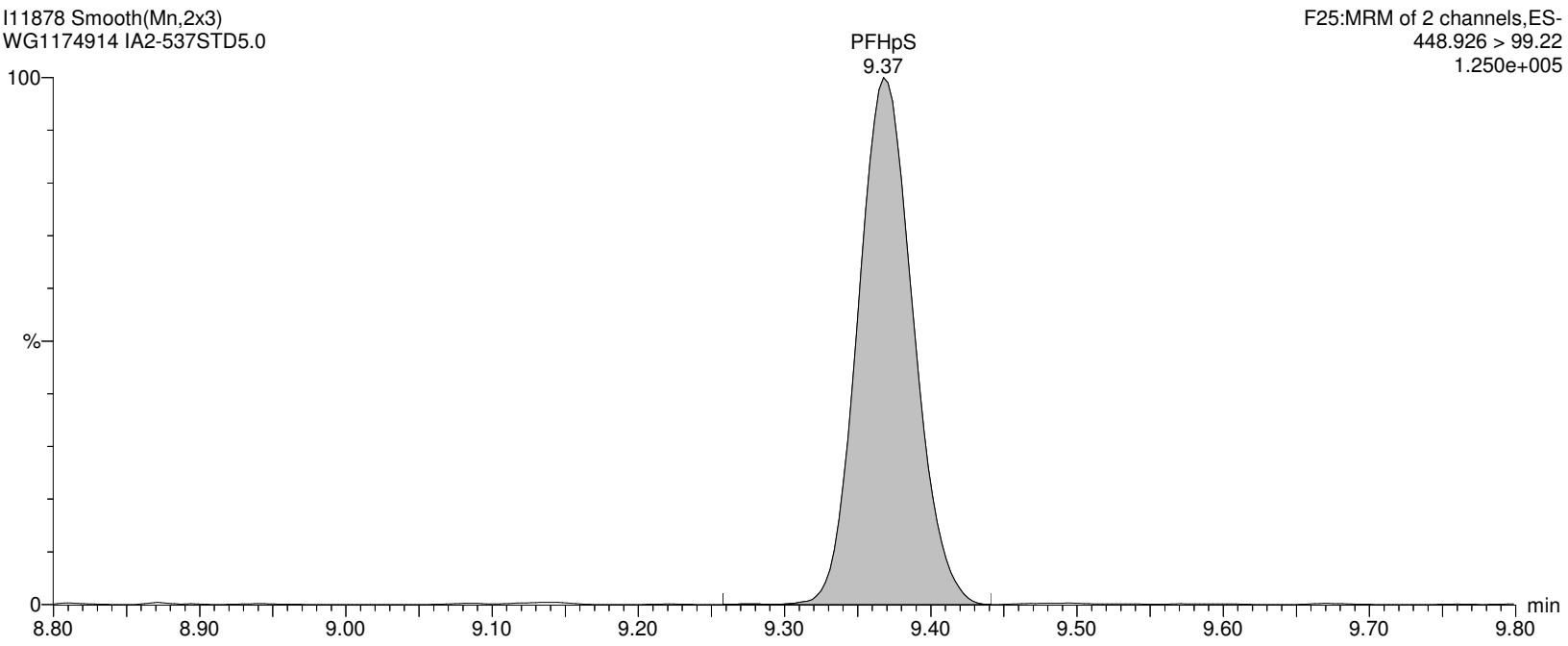

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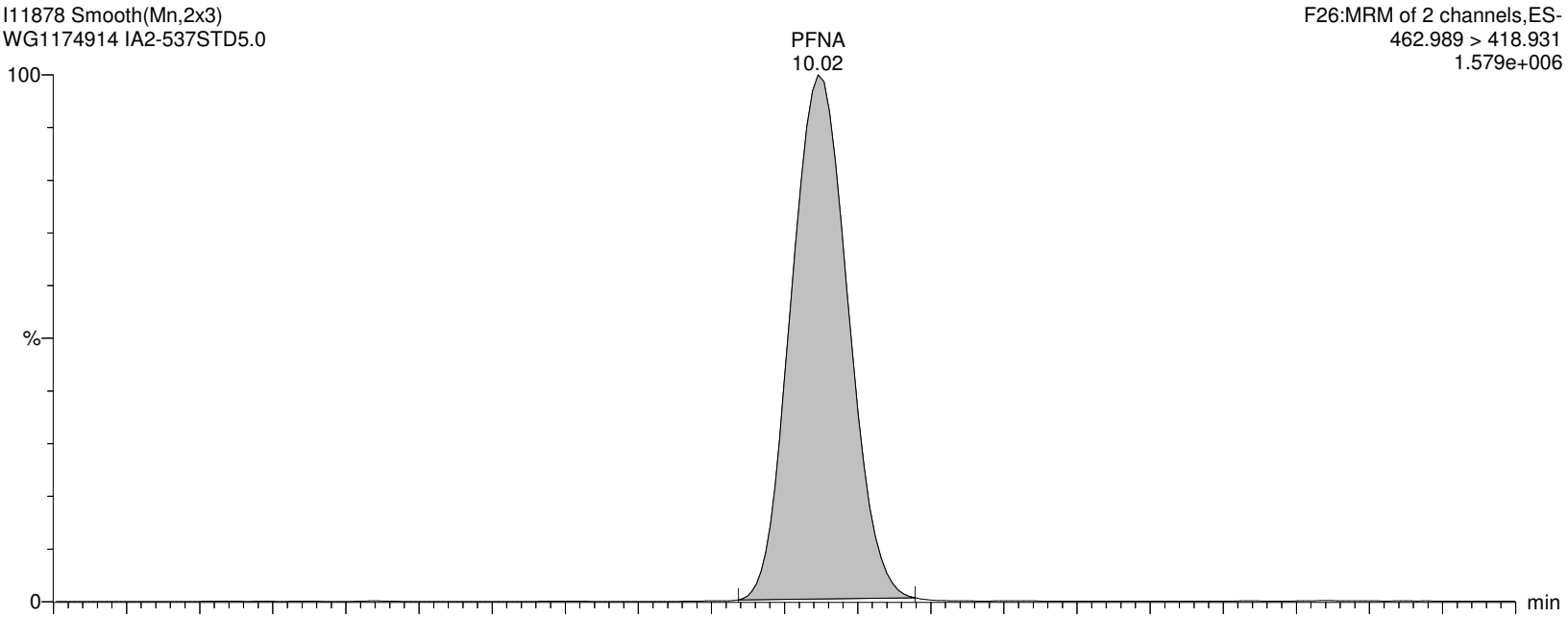

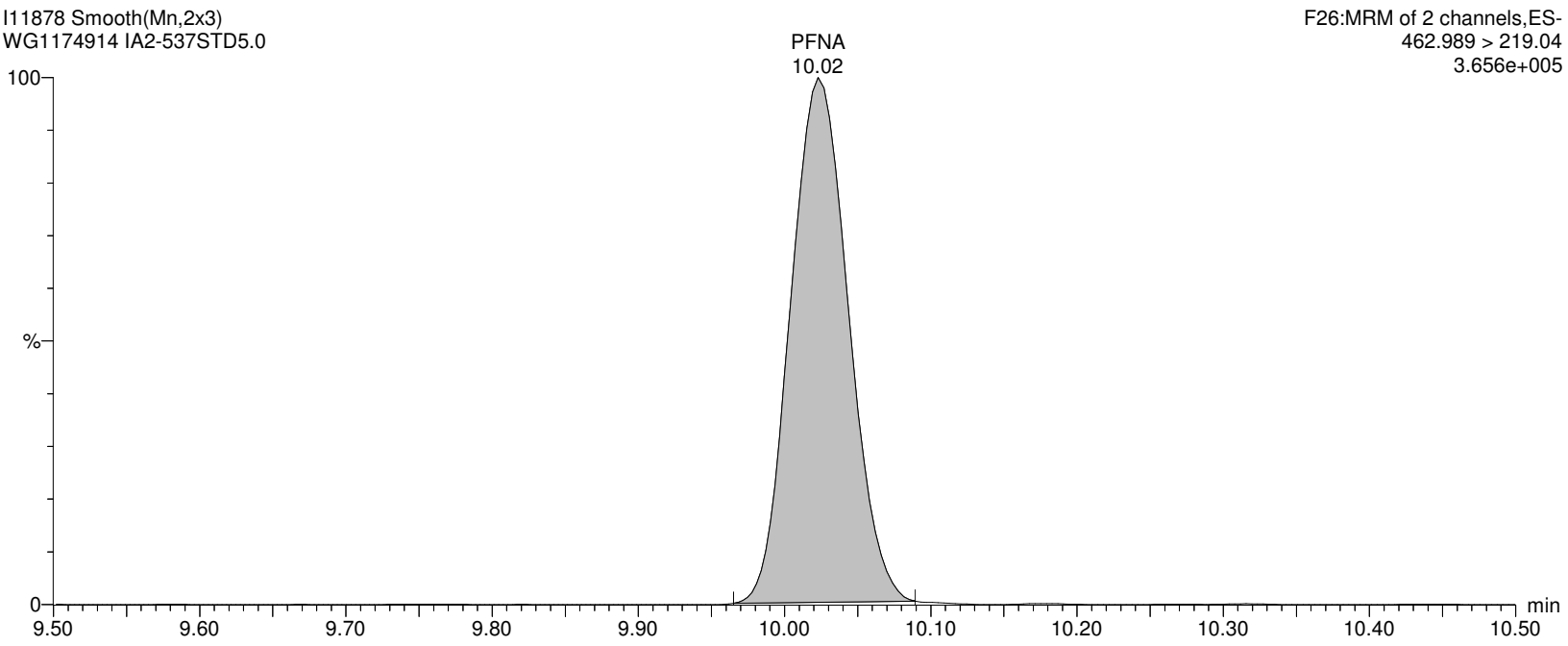

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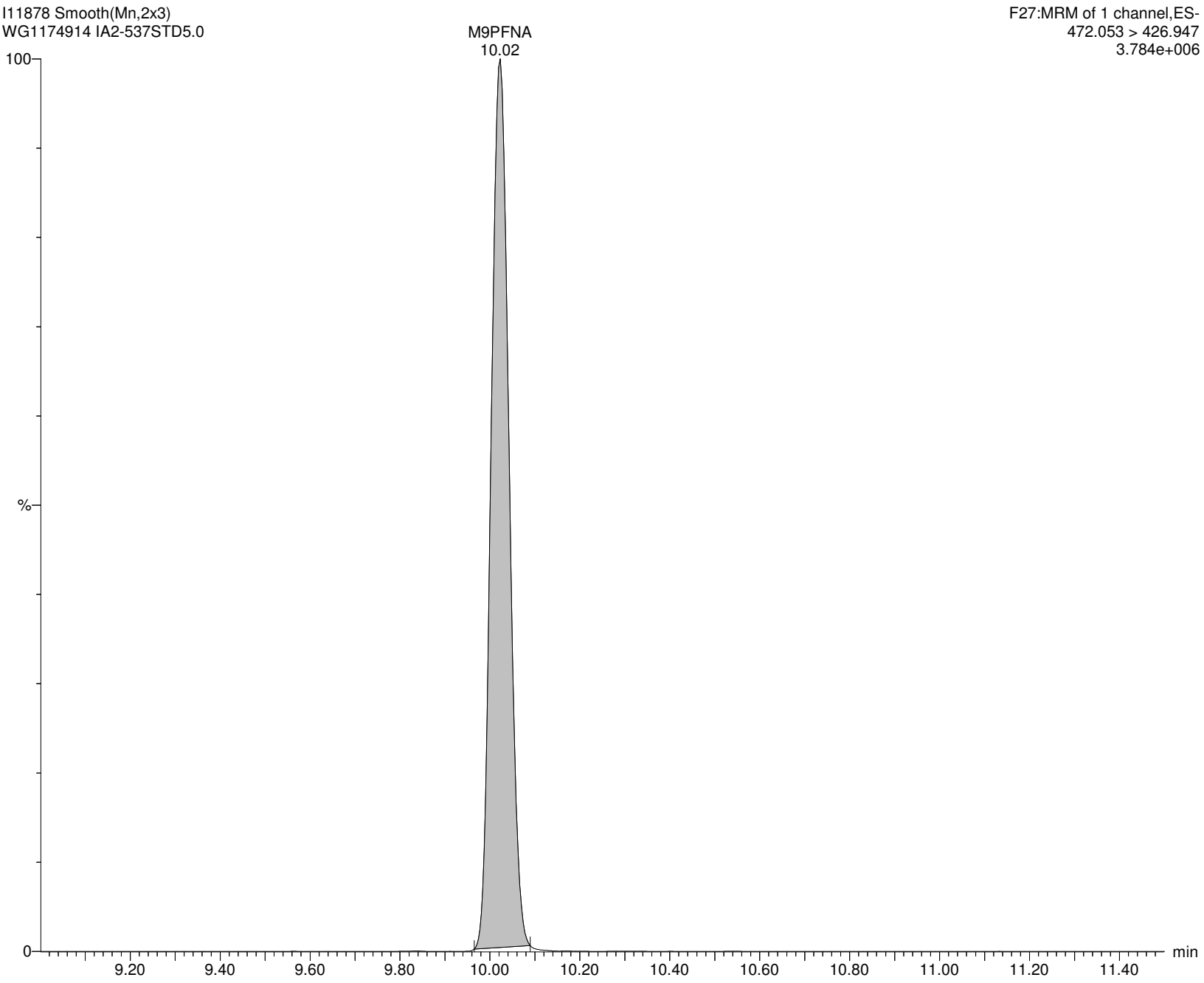

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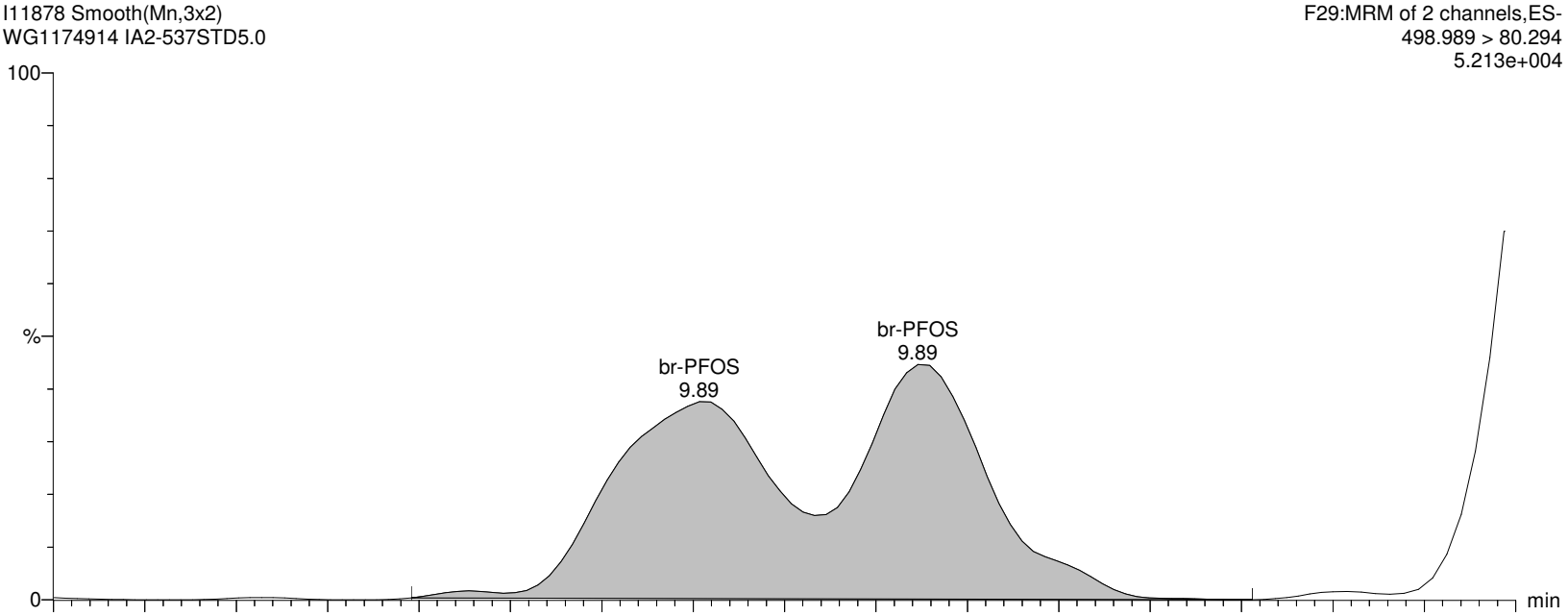

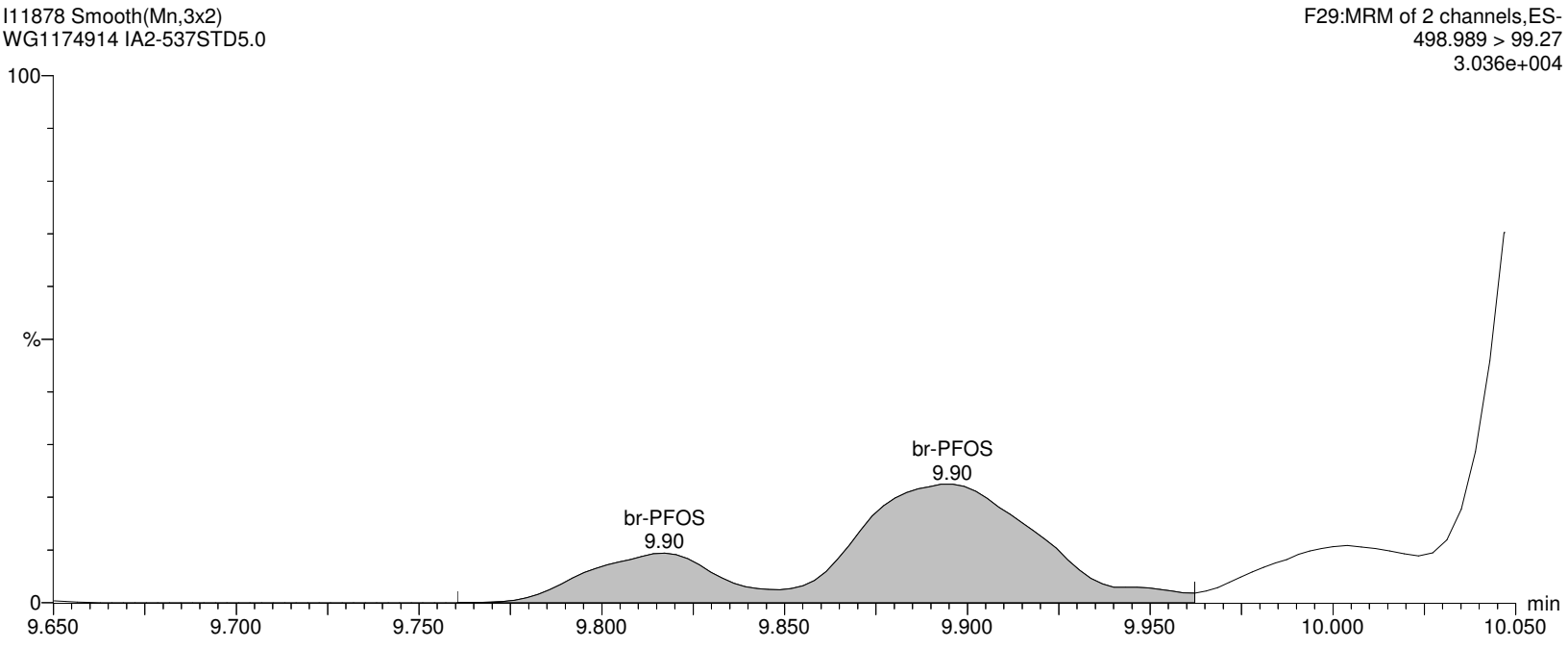

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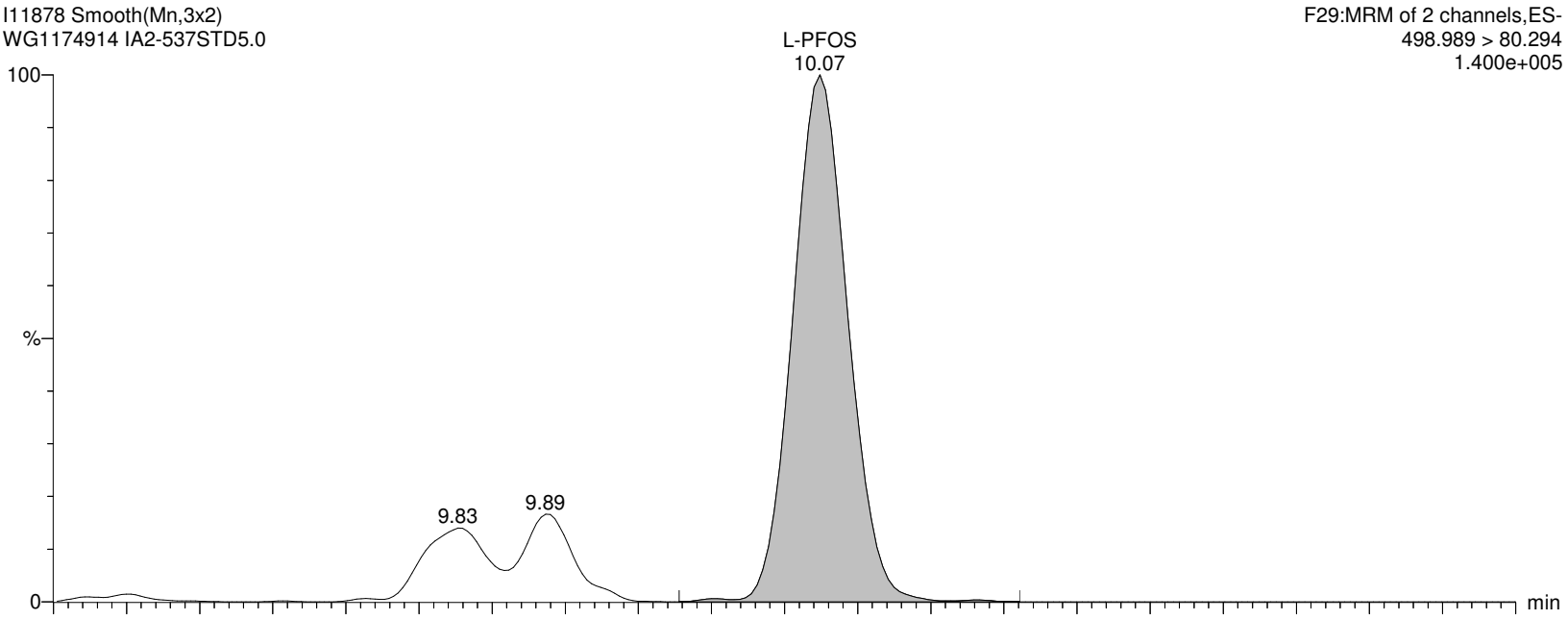

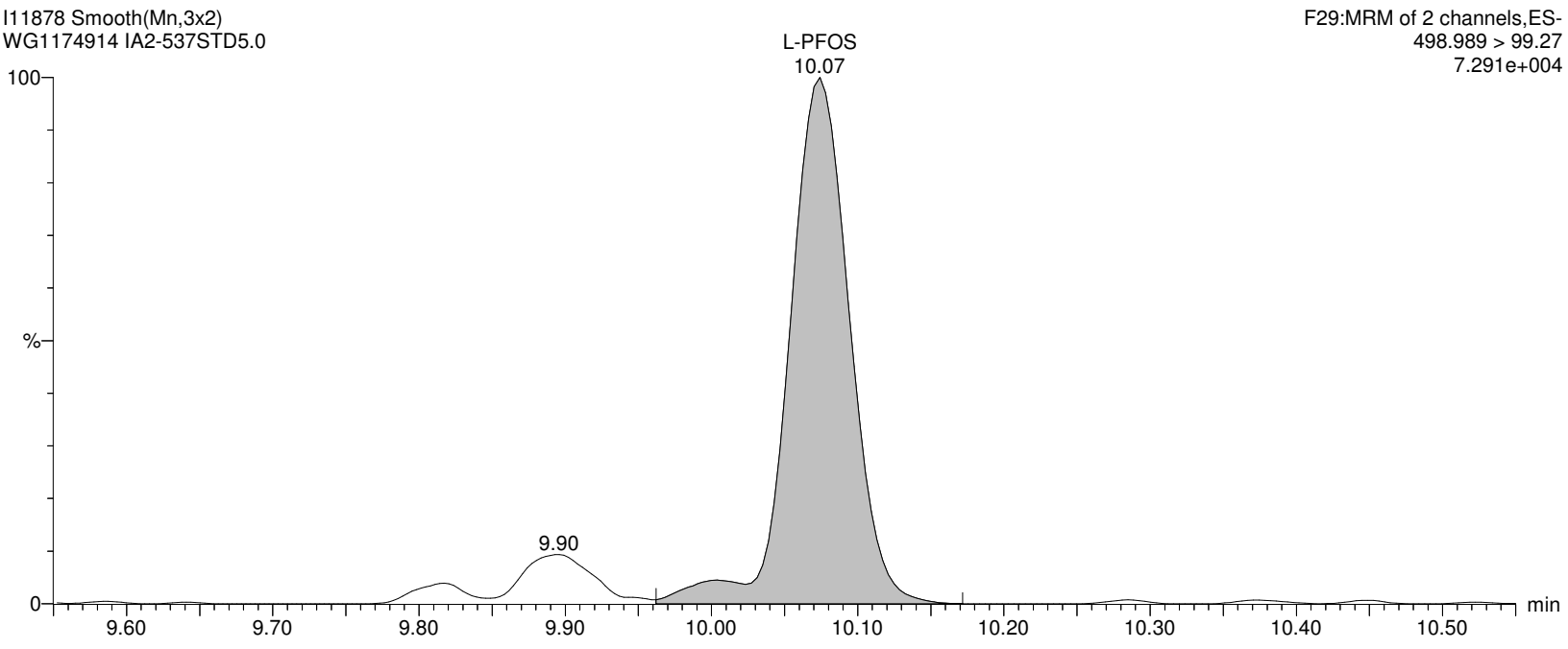

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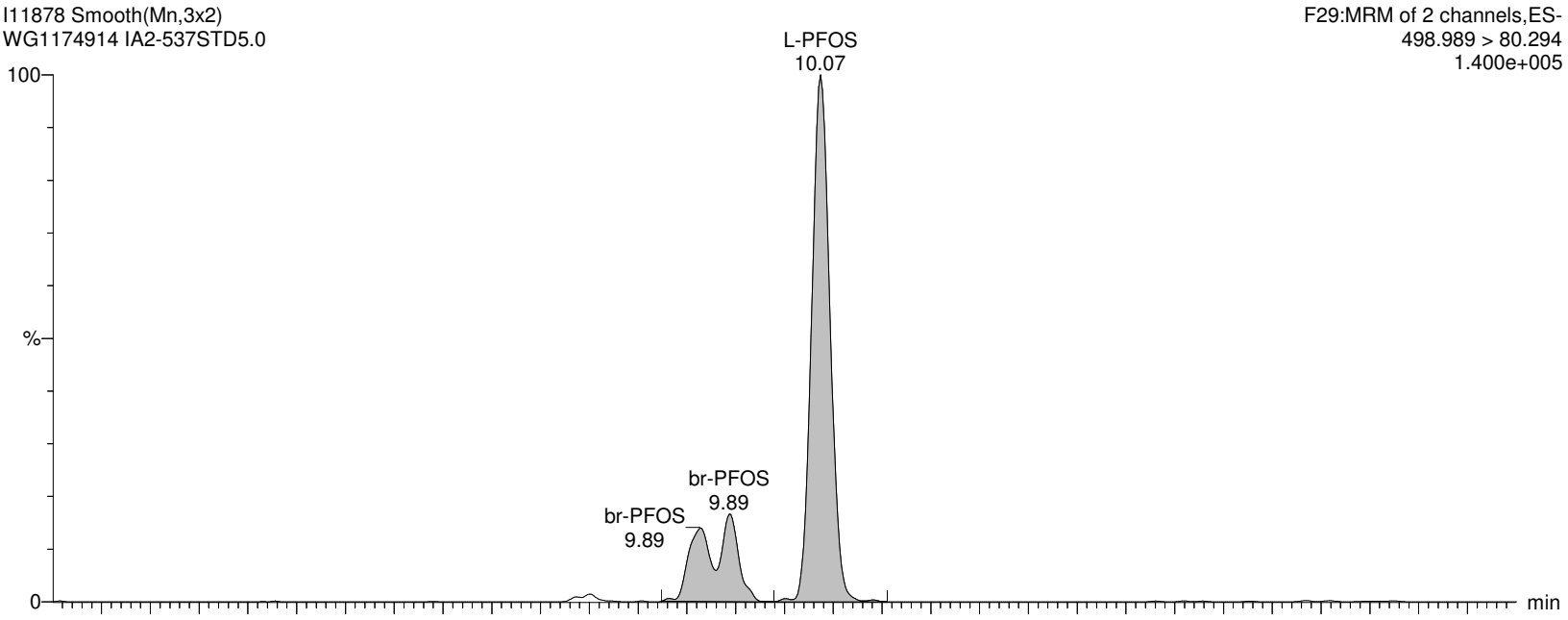

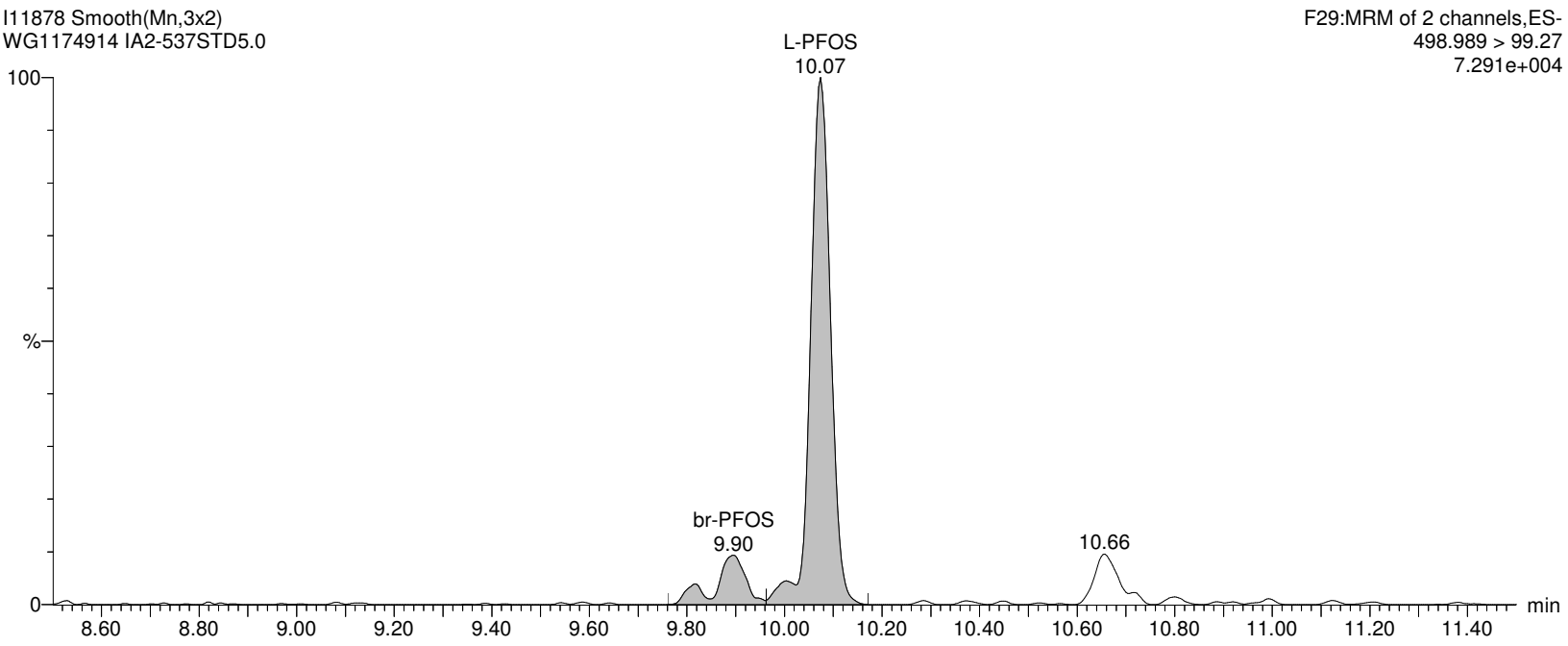

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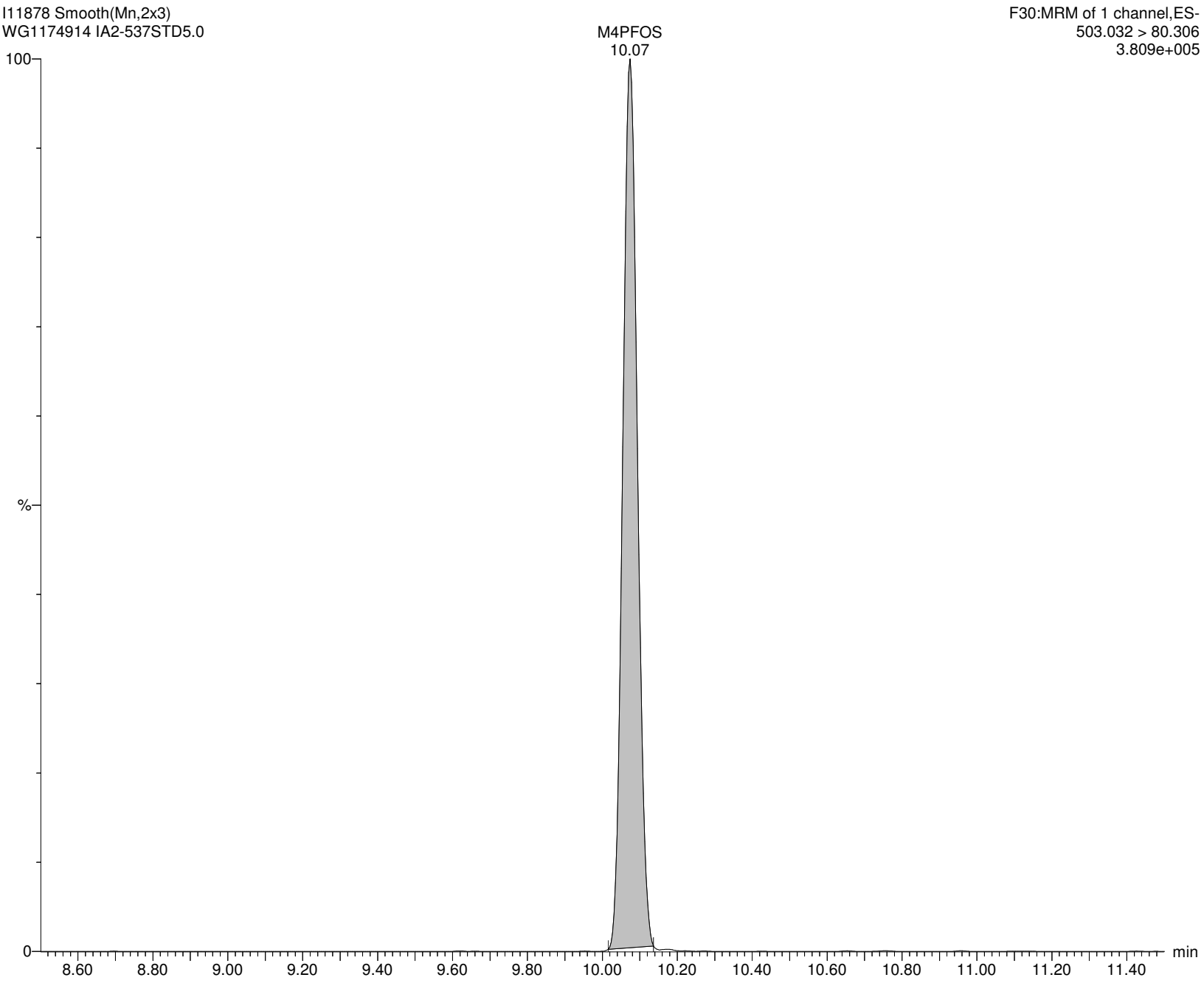

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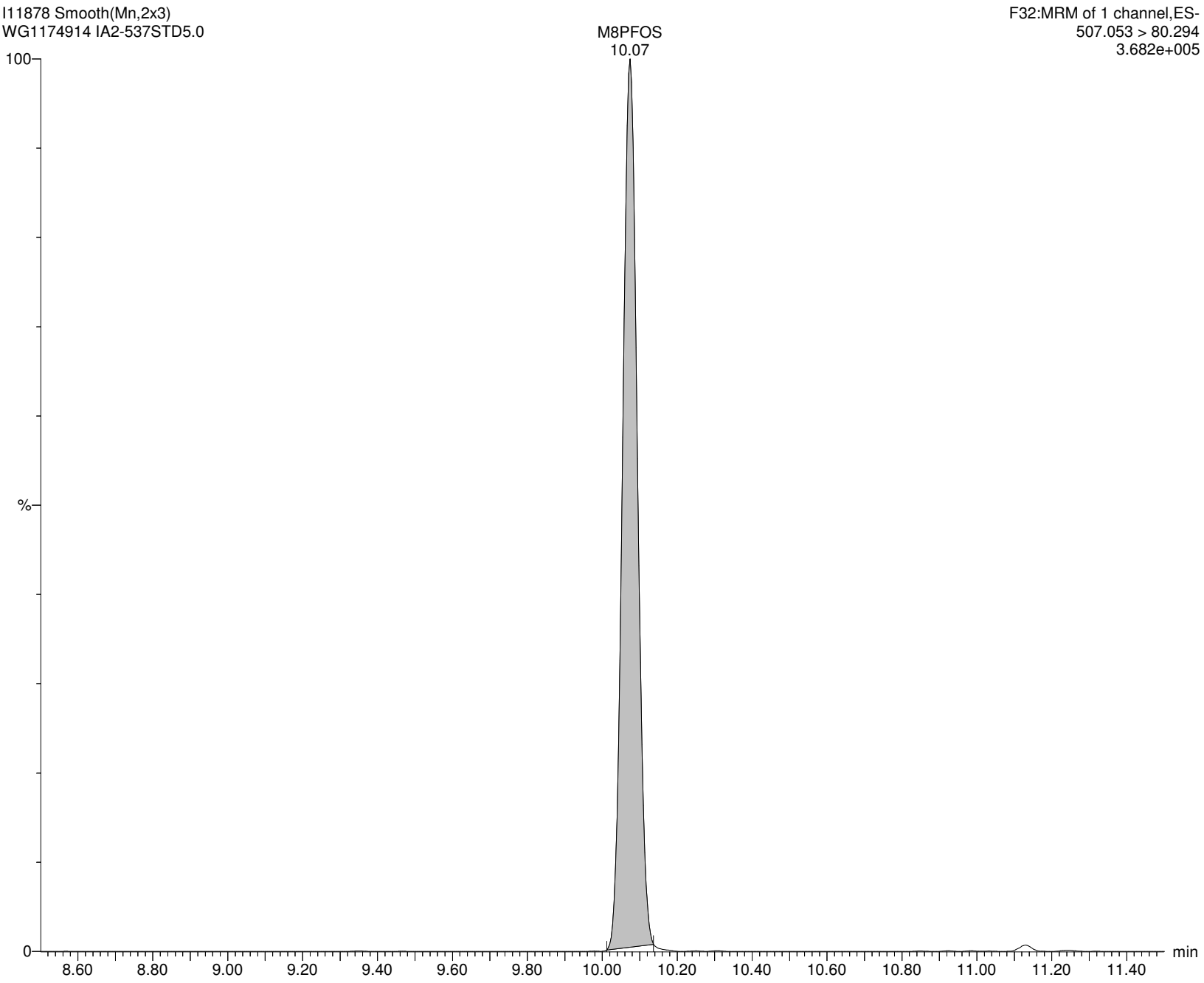

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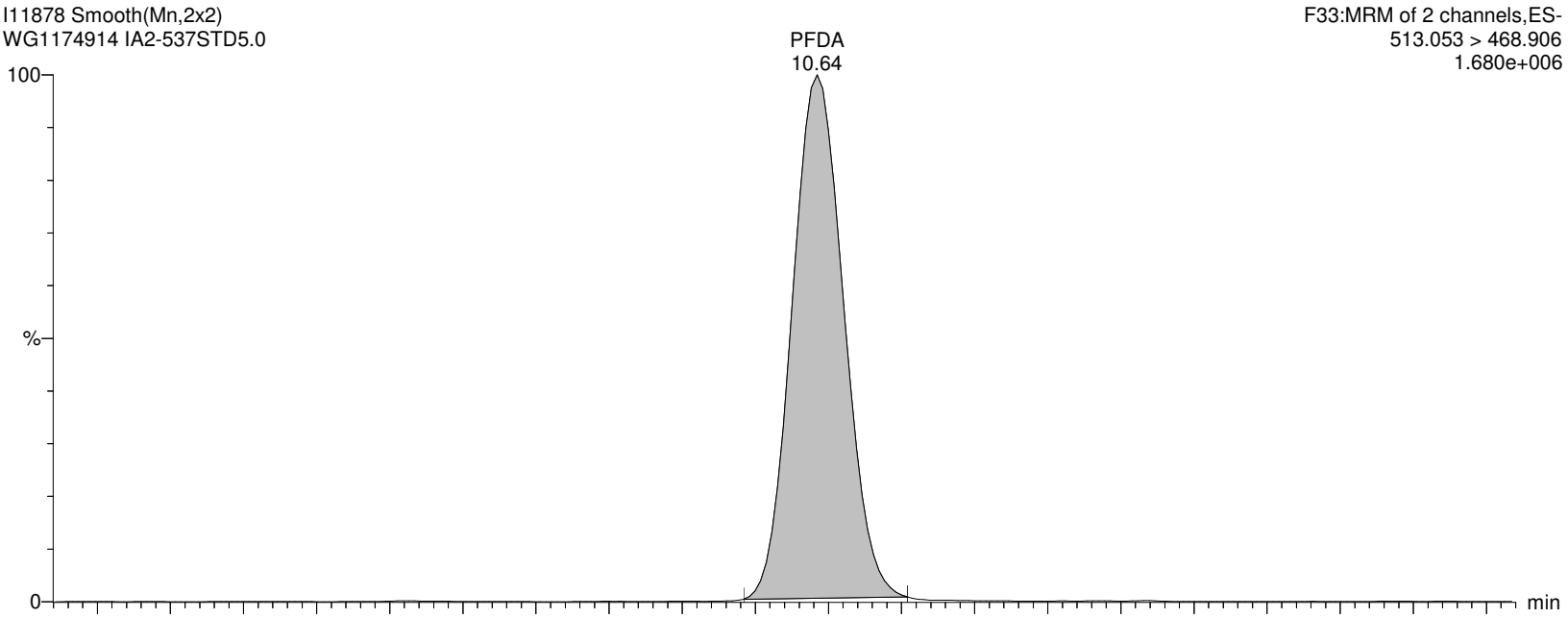

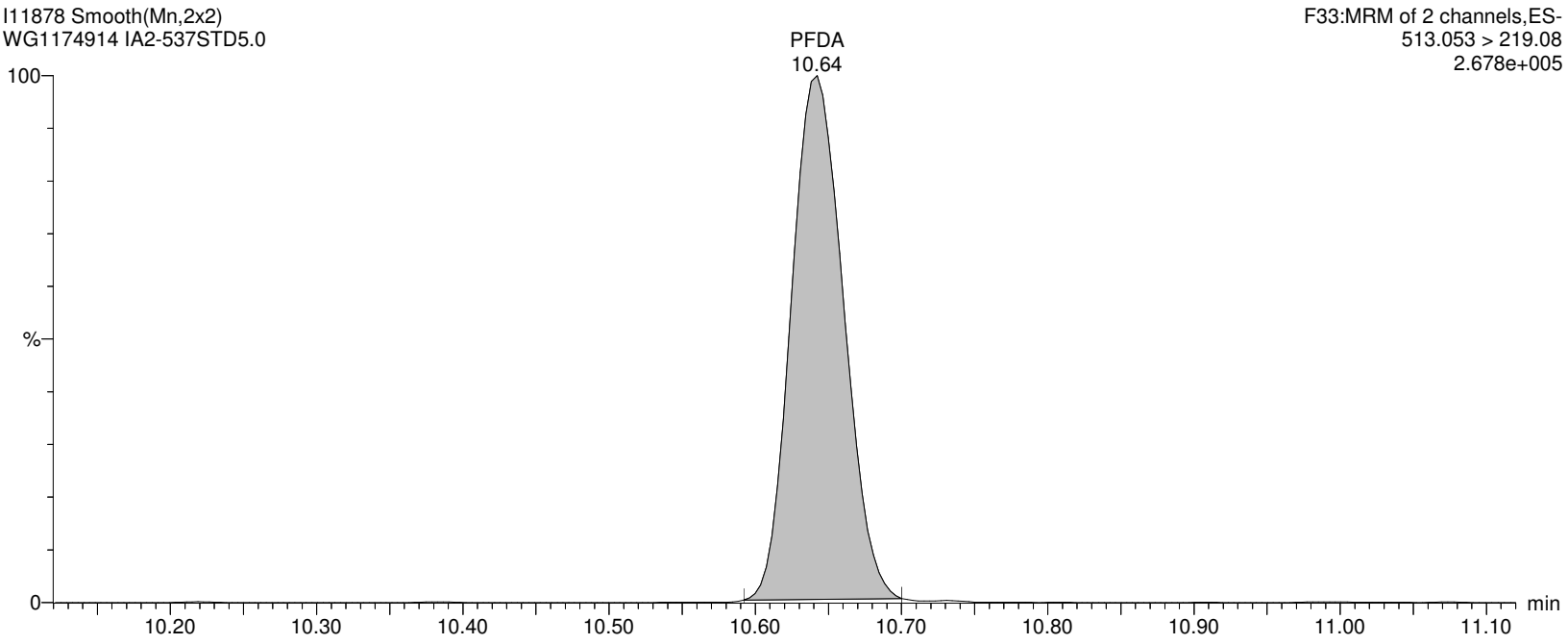

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Time: 17:02:14
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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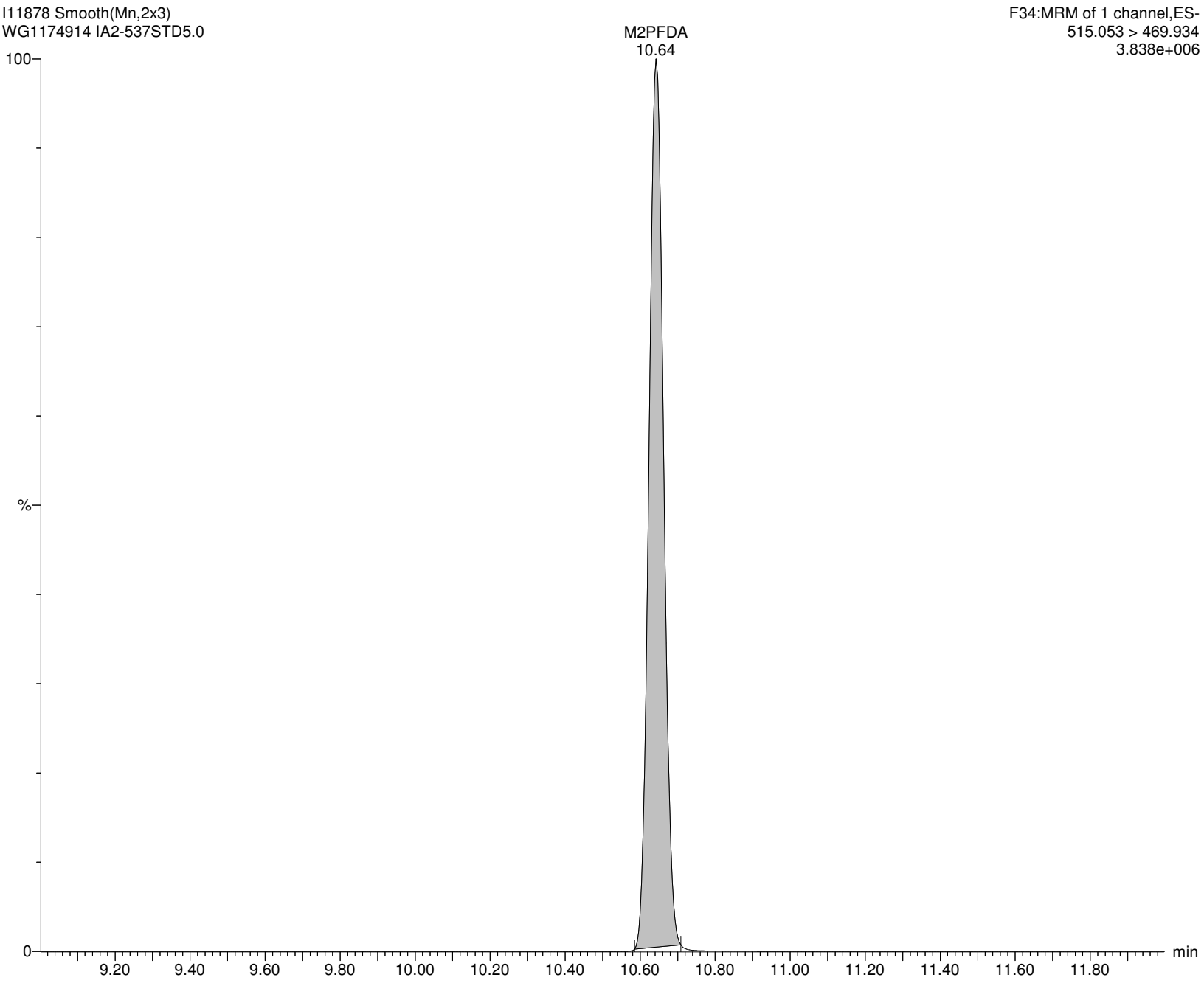

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:18 Eastern Daylight Time

Name: I11878
ID: IA2-537STD5.0
Date: 01-Nov-2018
Time: 17:02:14
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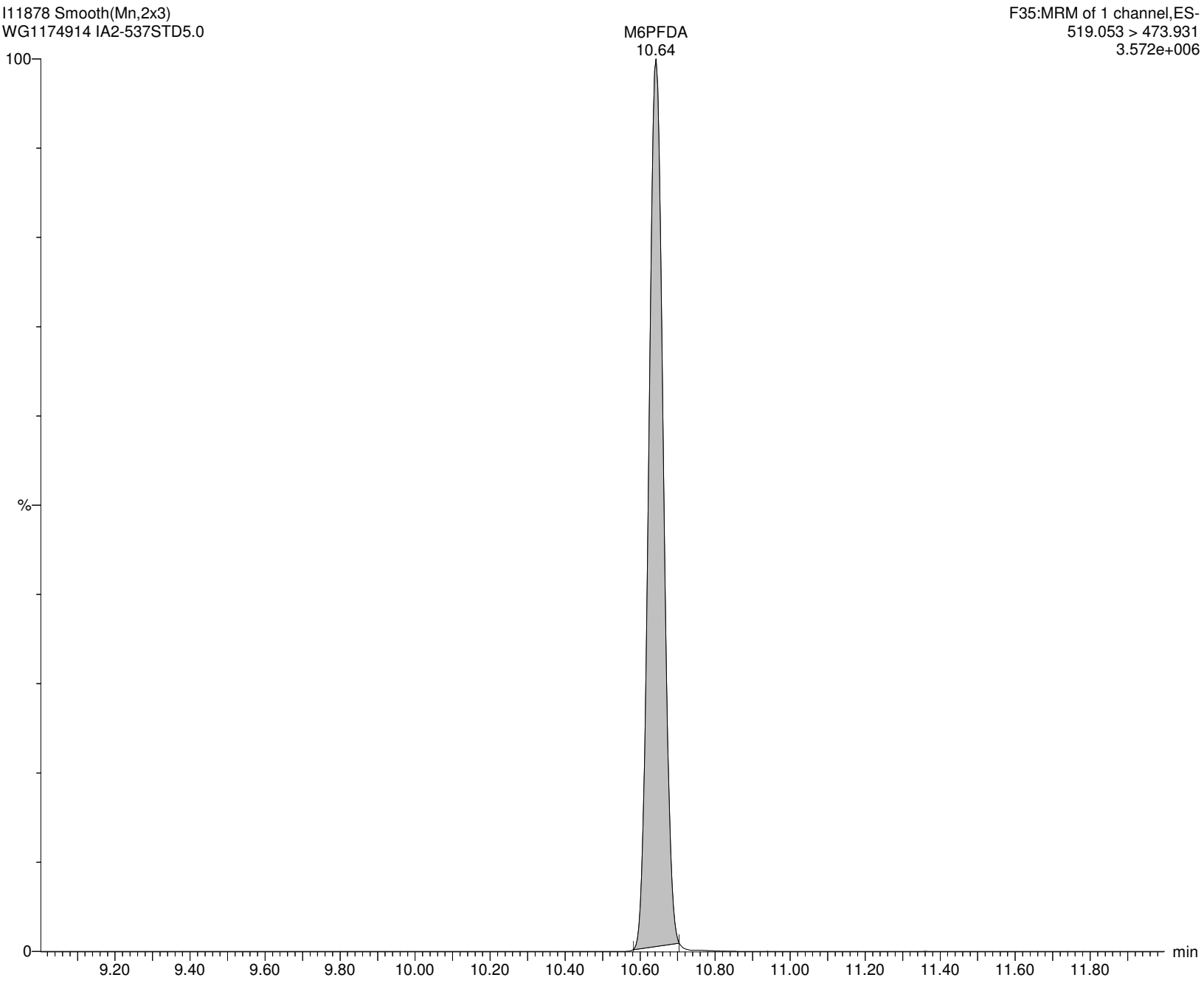

all concentration units in (ng/mL)

Alpha Analytical Inc.
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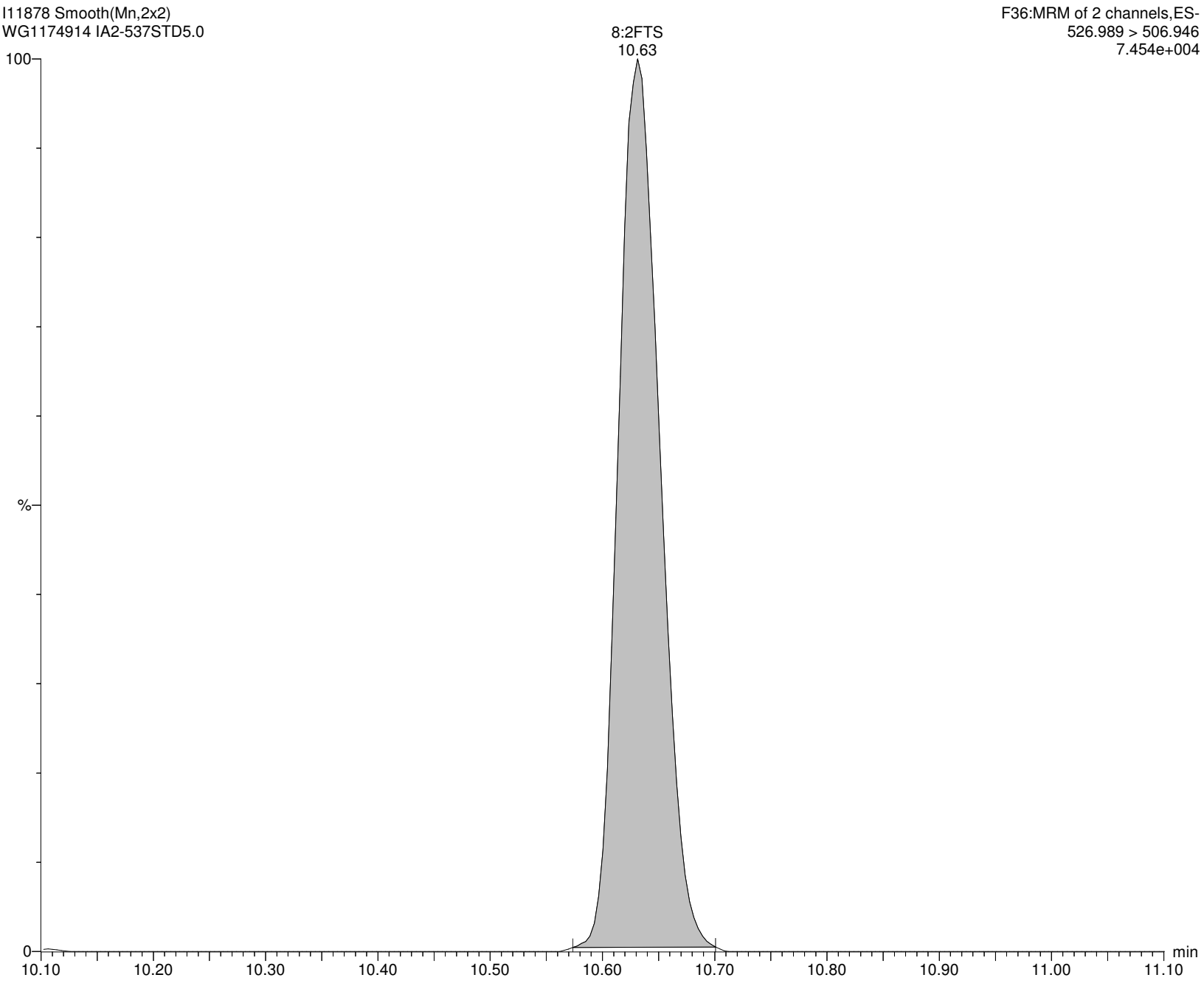

all concentration units in (ng/mL)

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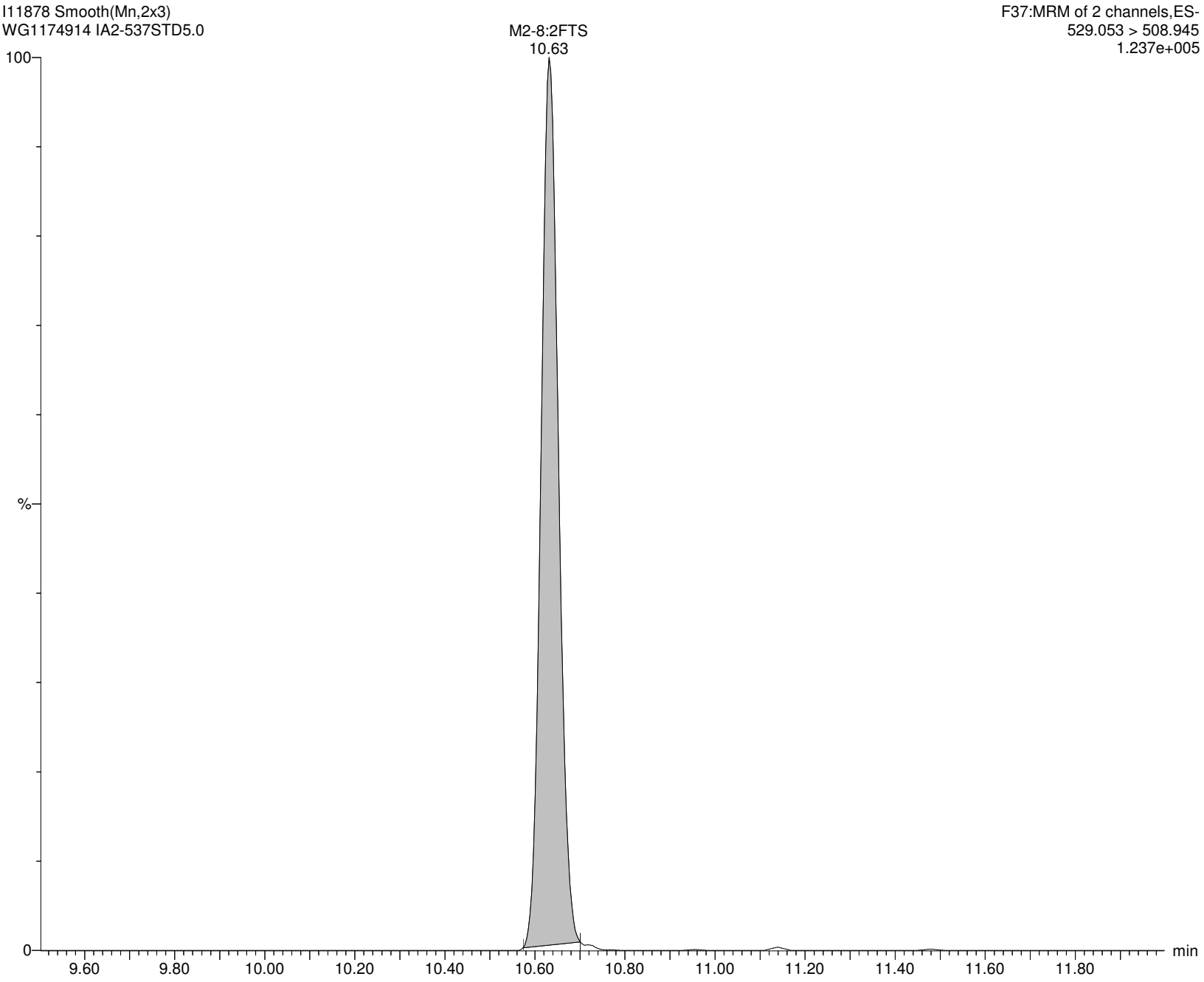

all concentration units in (ng/mL)

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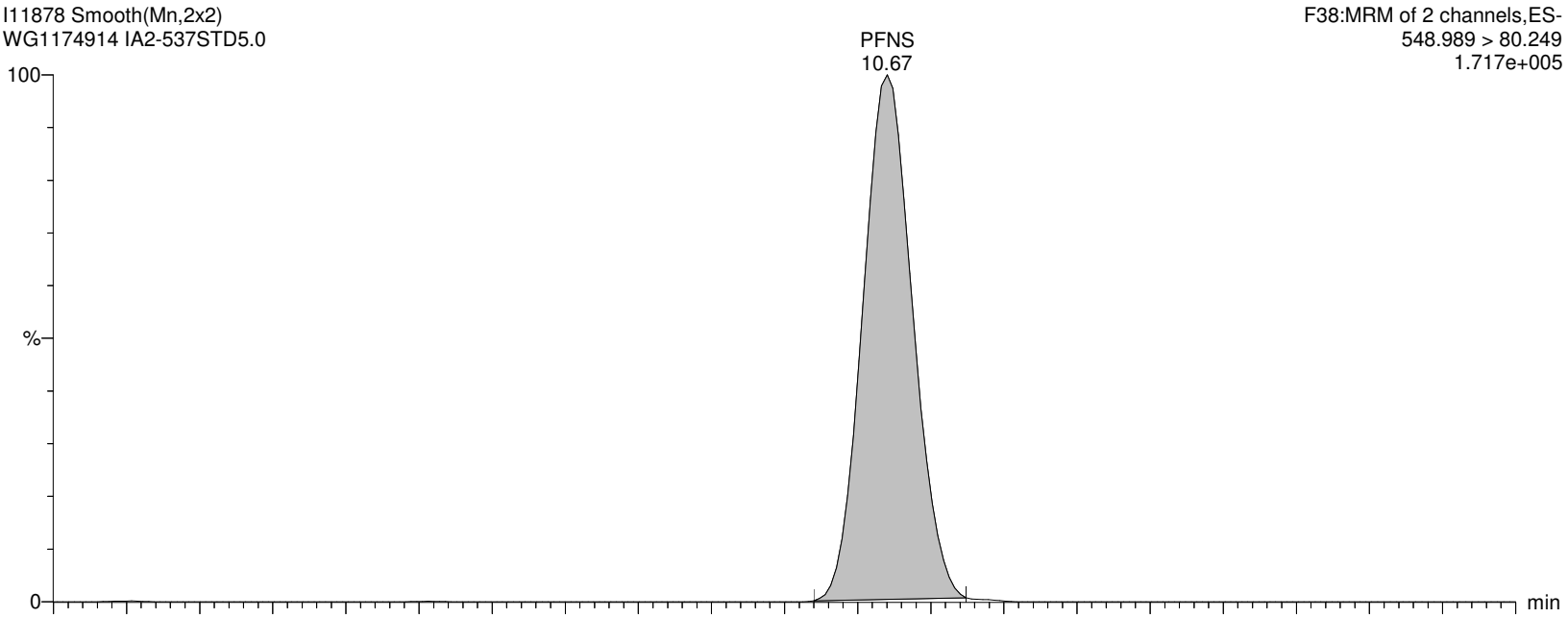

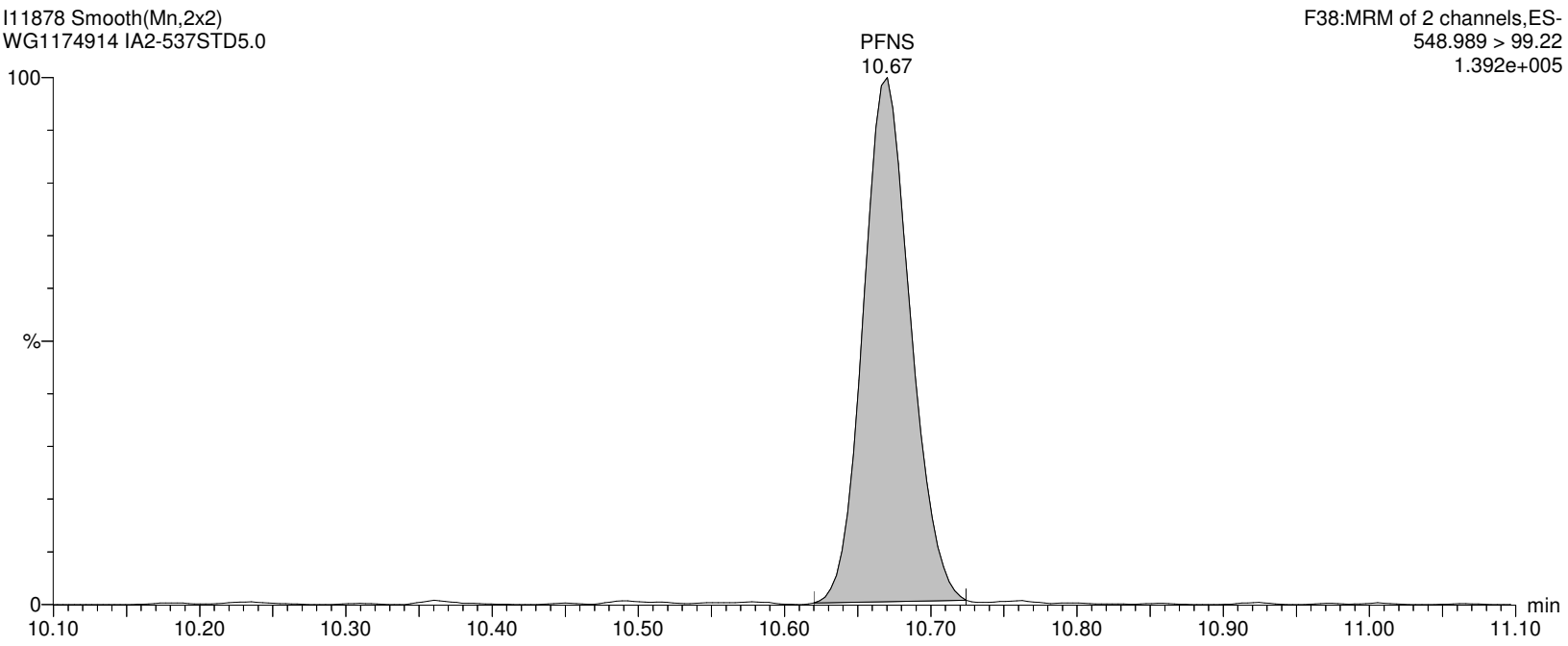

all concentration units in (ng/mL)

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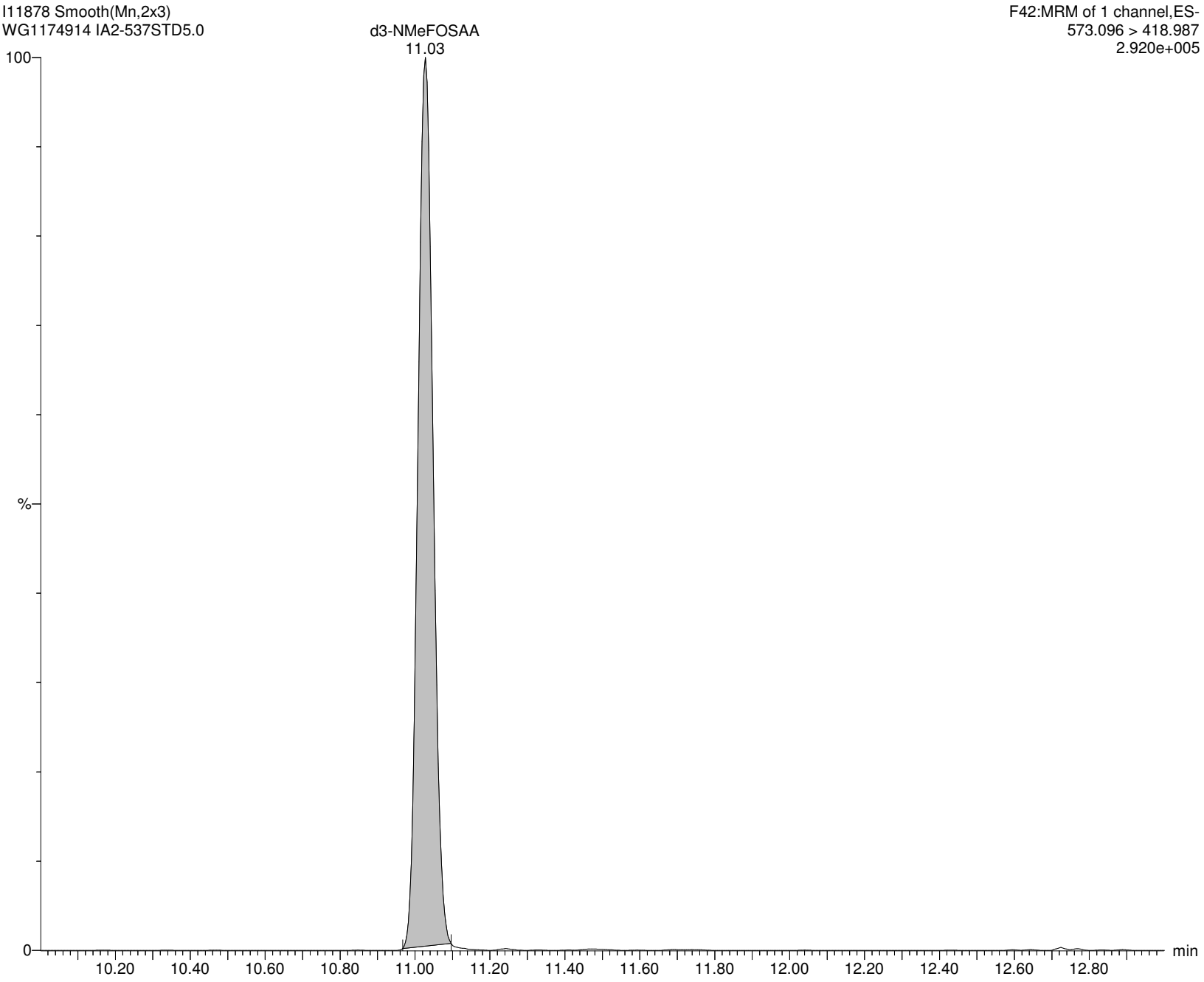
d3-NMeFOSAA



all concentration units in (ng/mL)

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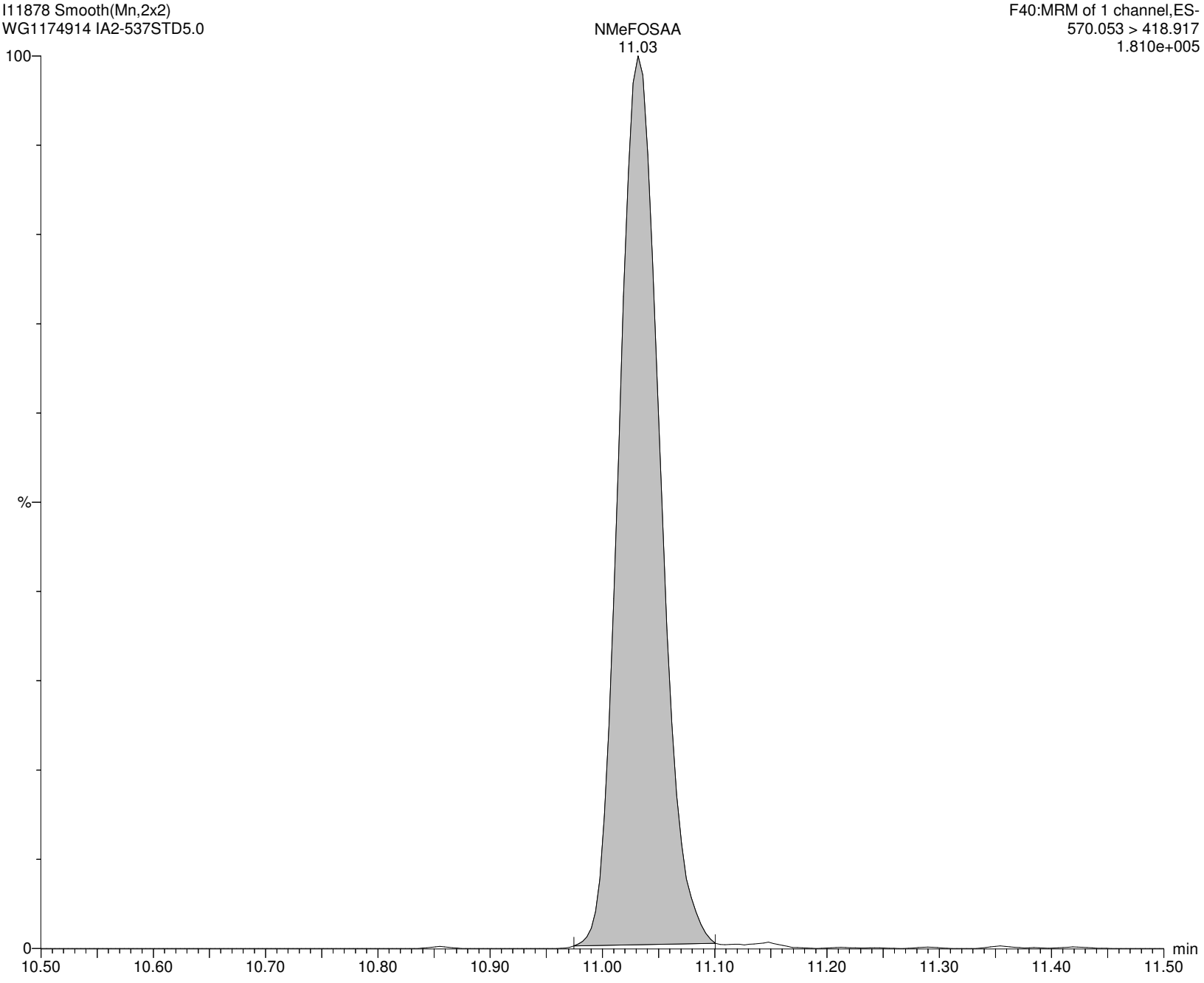

all concentration units in (ng/mL)

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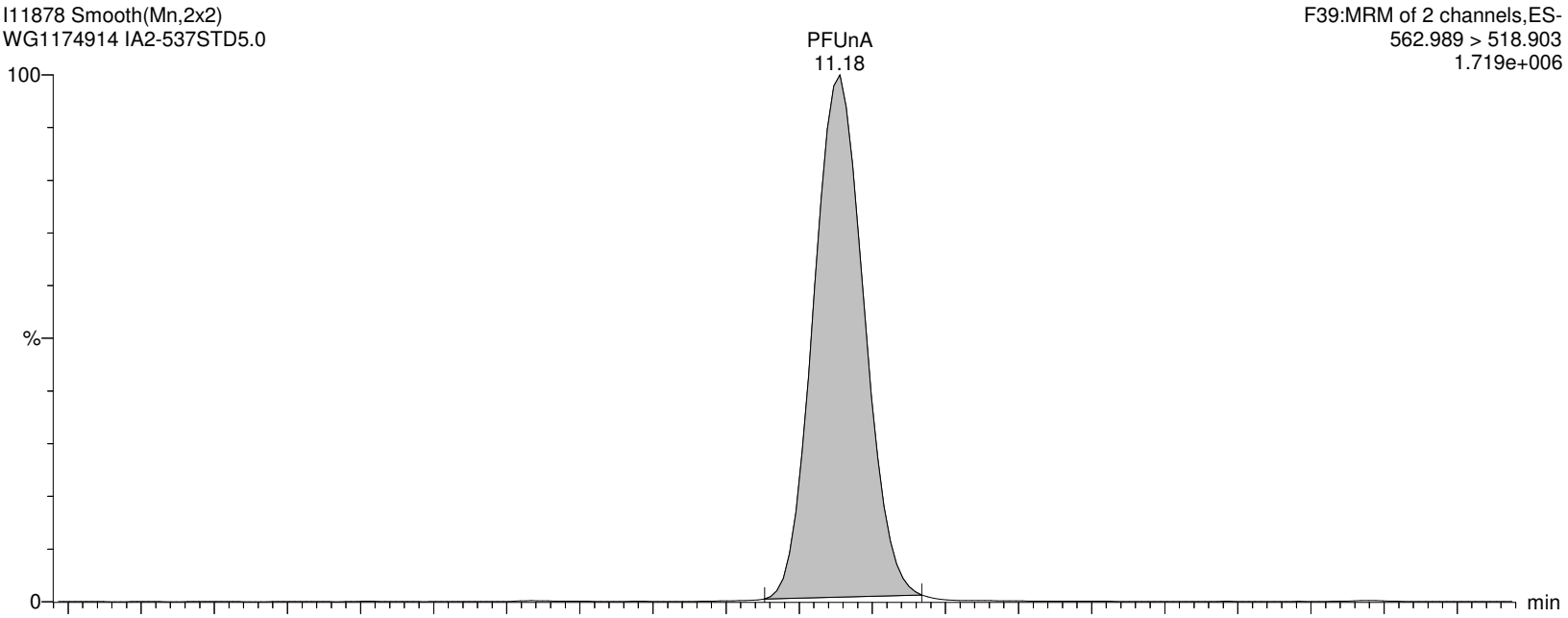

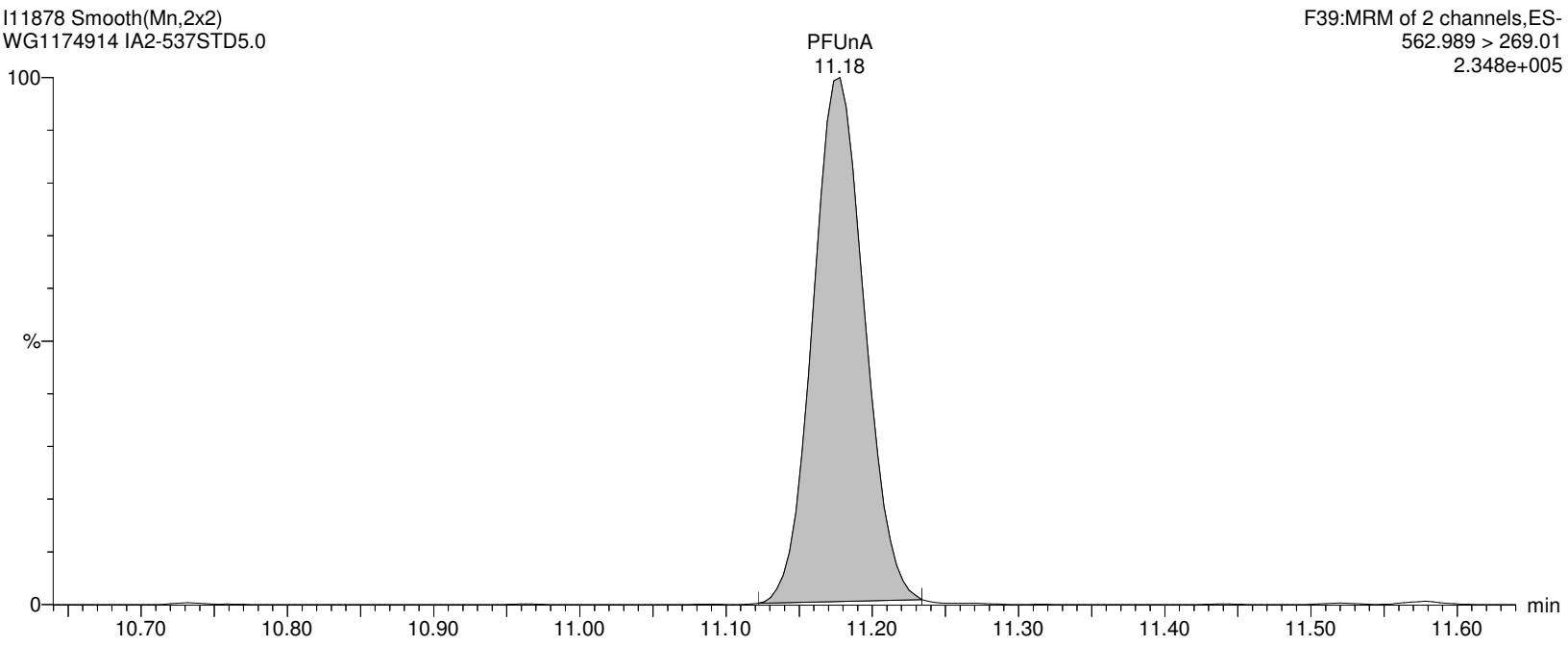

all concentration units in (ng/mL)

Alpha Analytical Inc.
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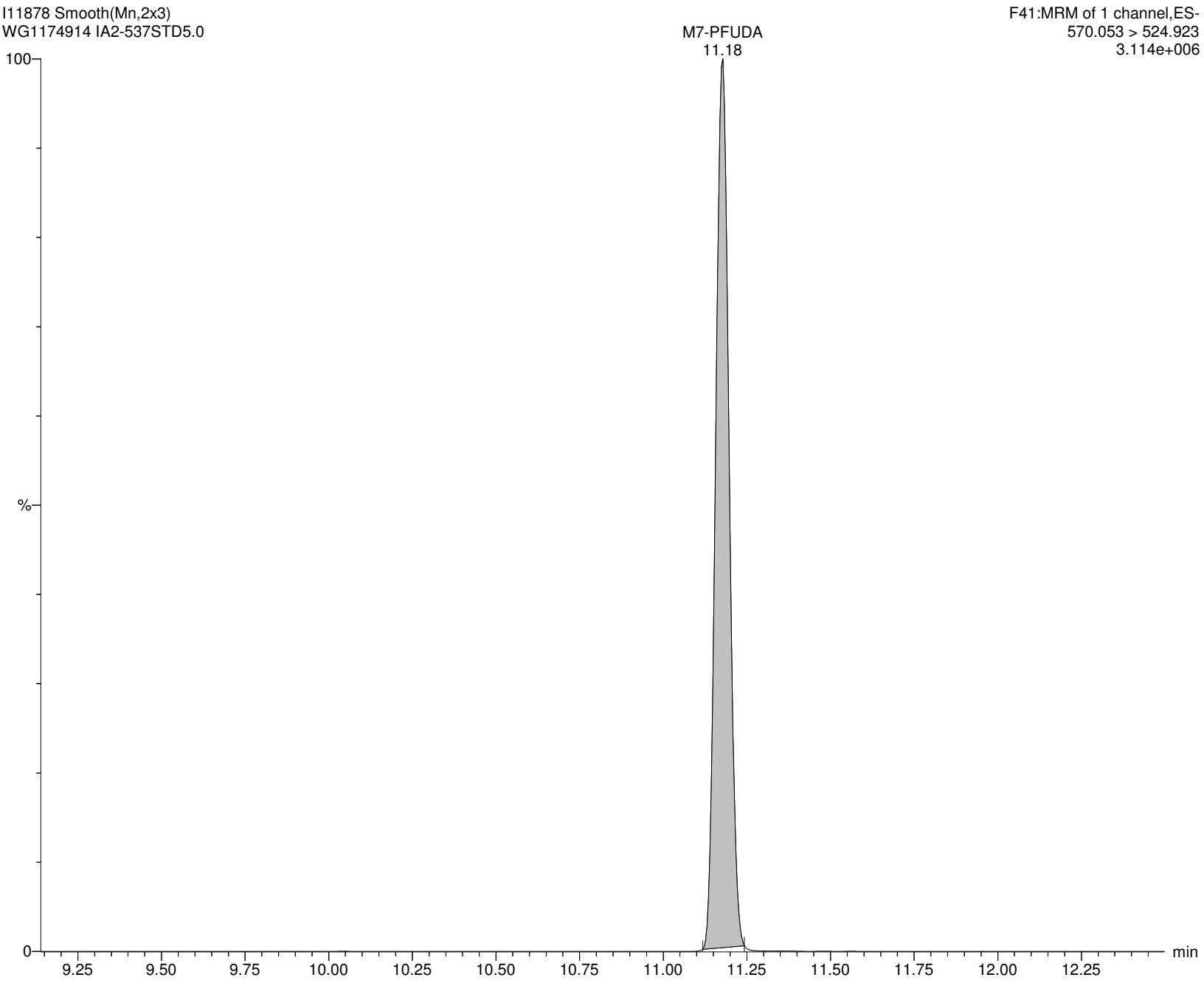
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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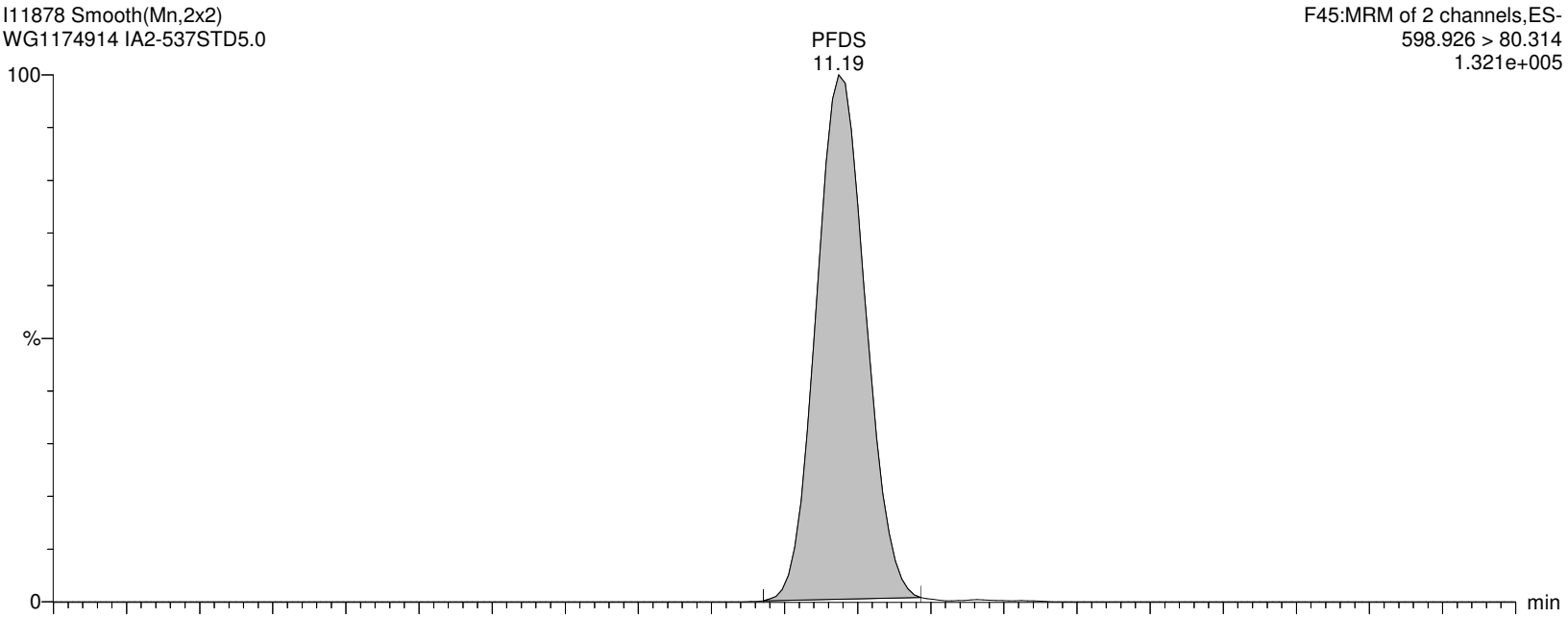

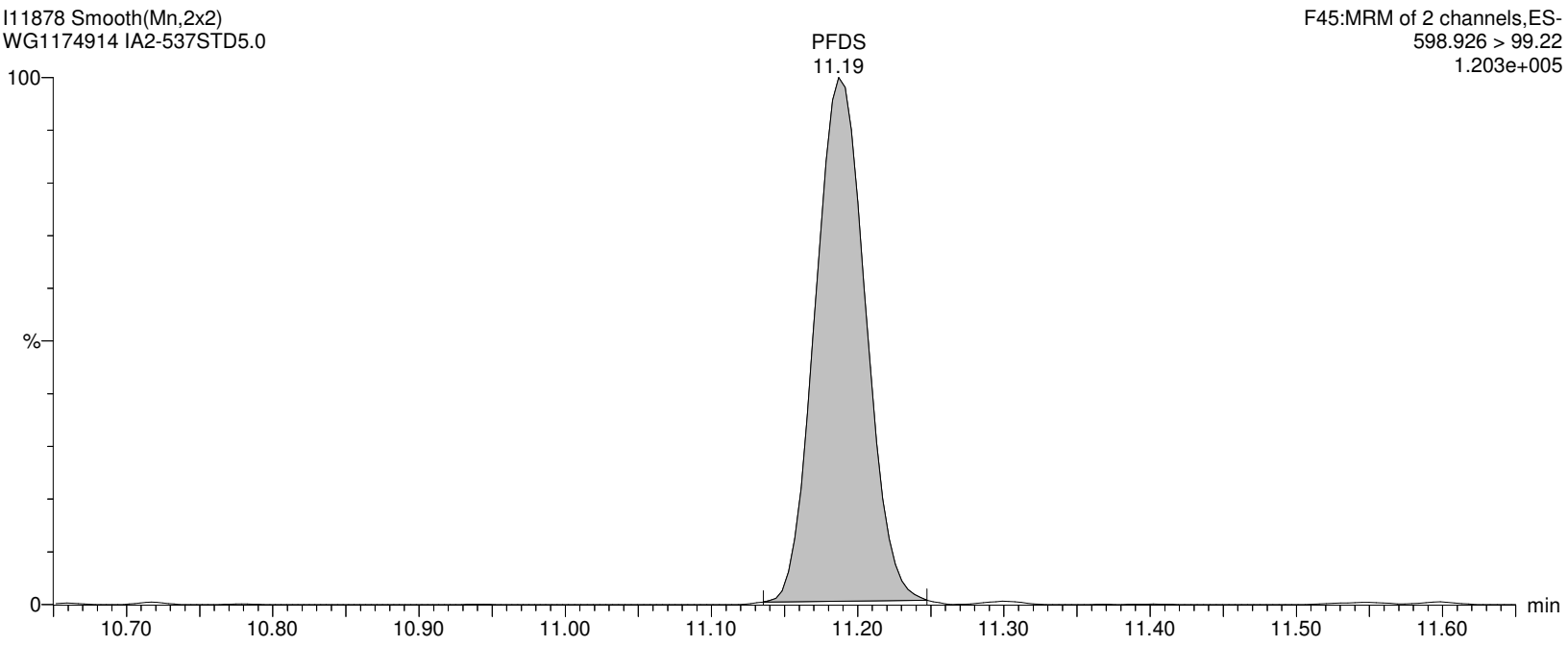

all concentration units in (ng/mL)

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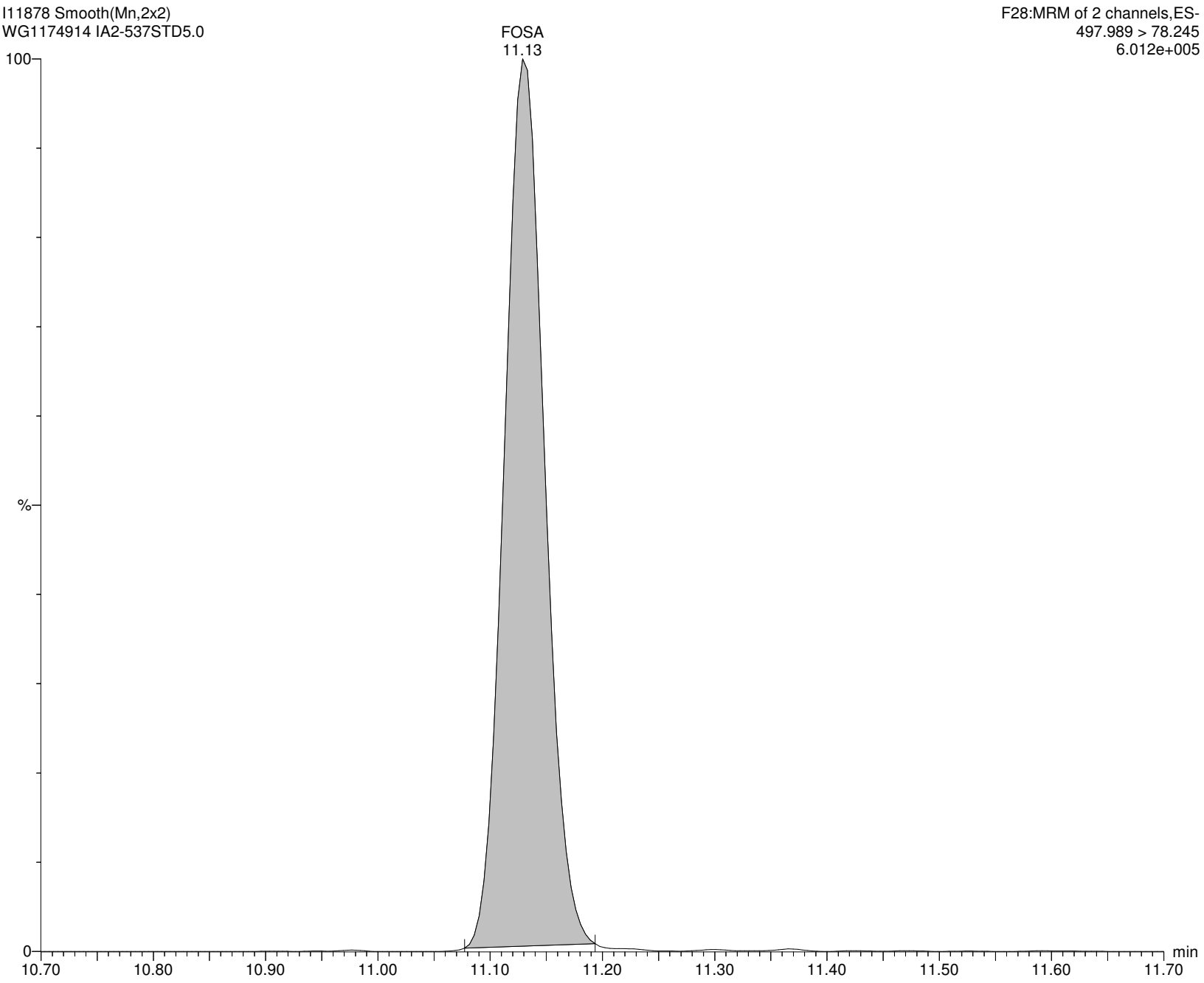

all concentration units in (ng/mL)

Alpha Analytical Inc.
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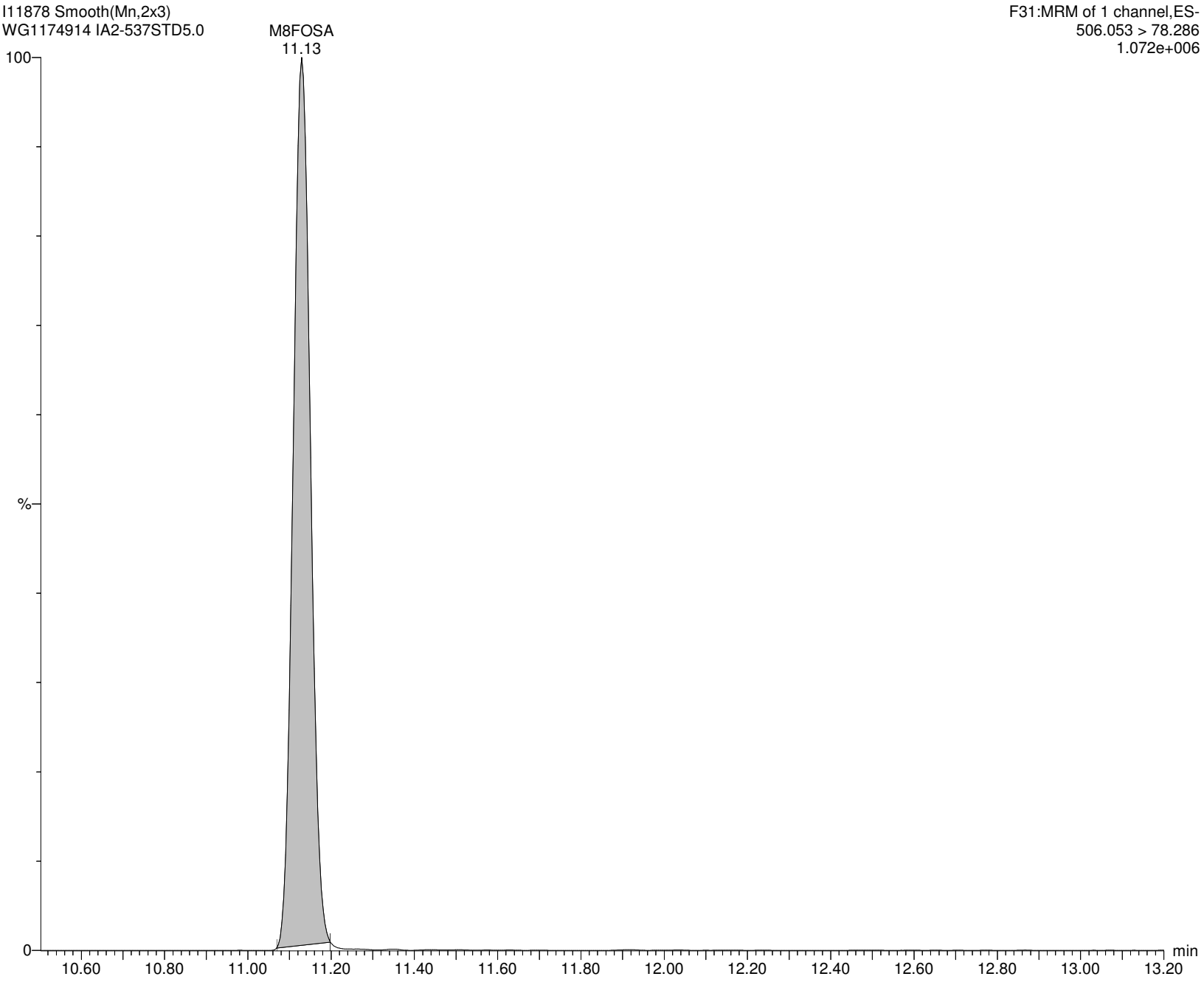

all concentration units in (ng/mL)

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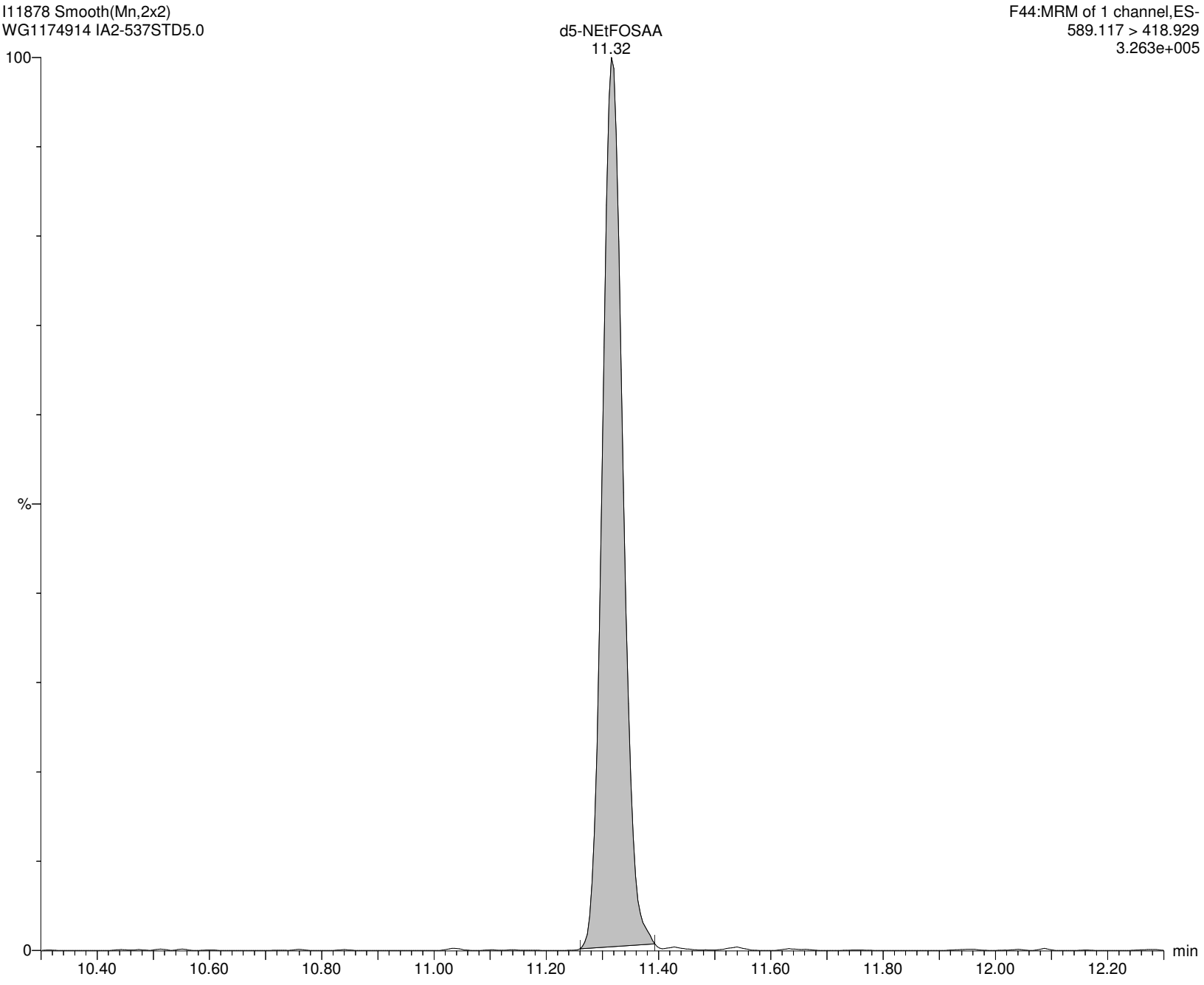
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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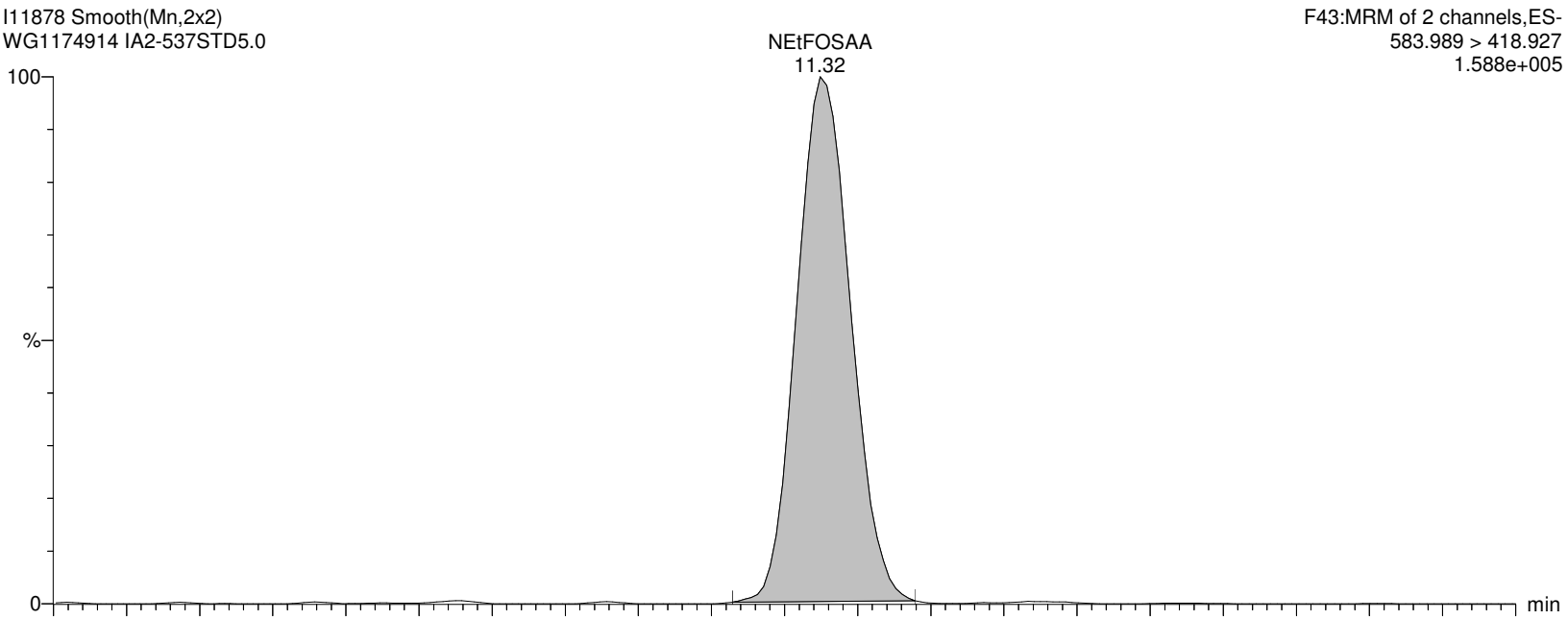

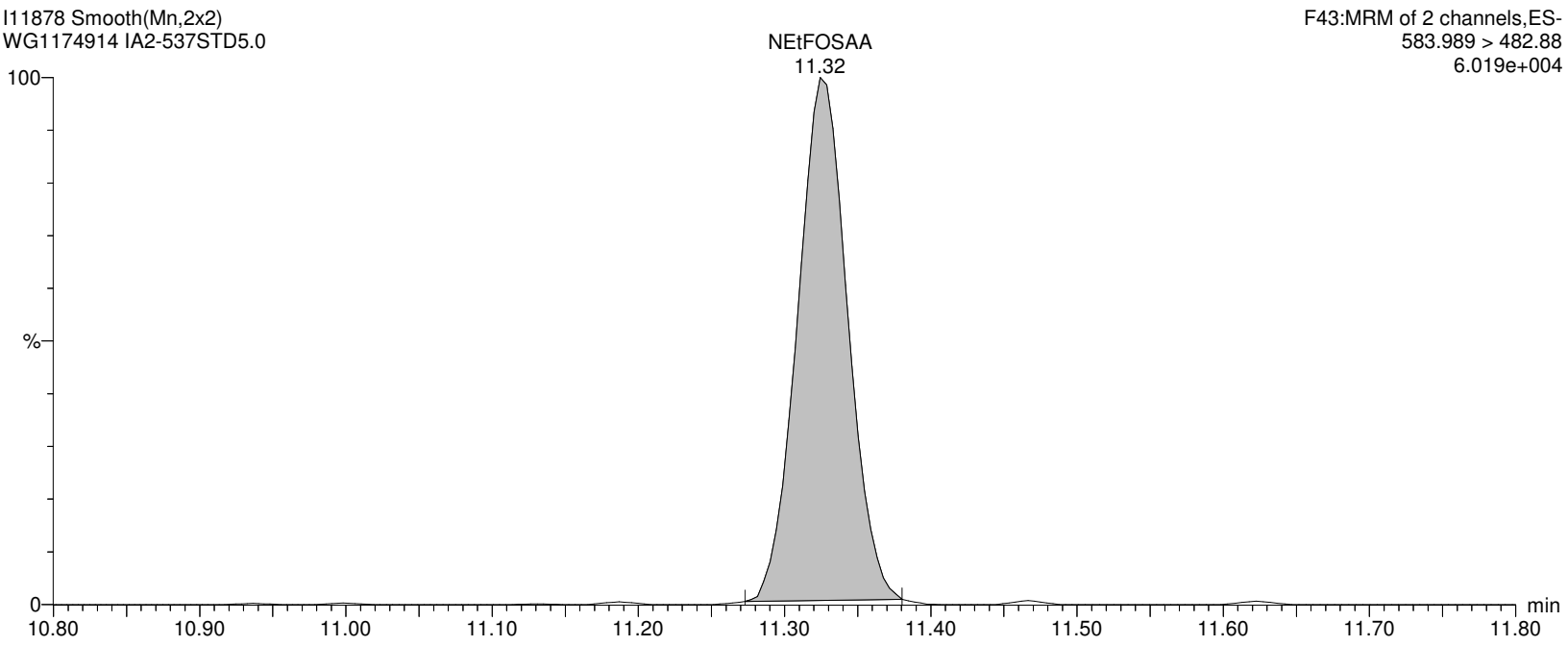

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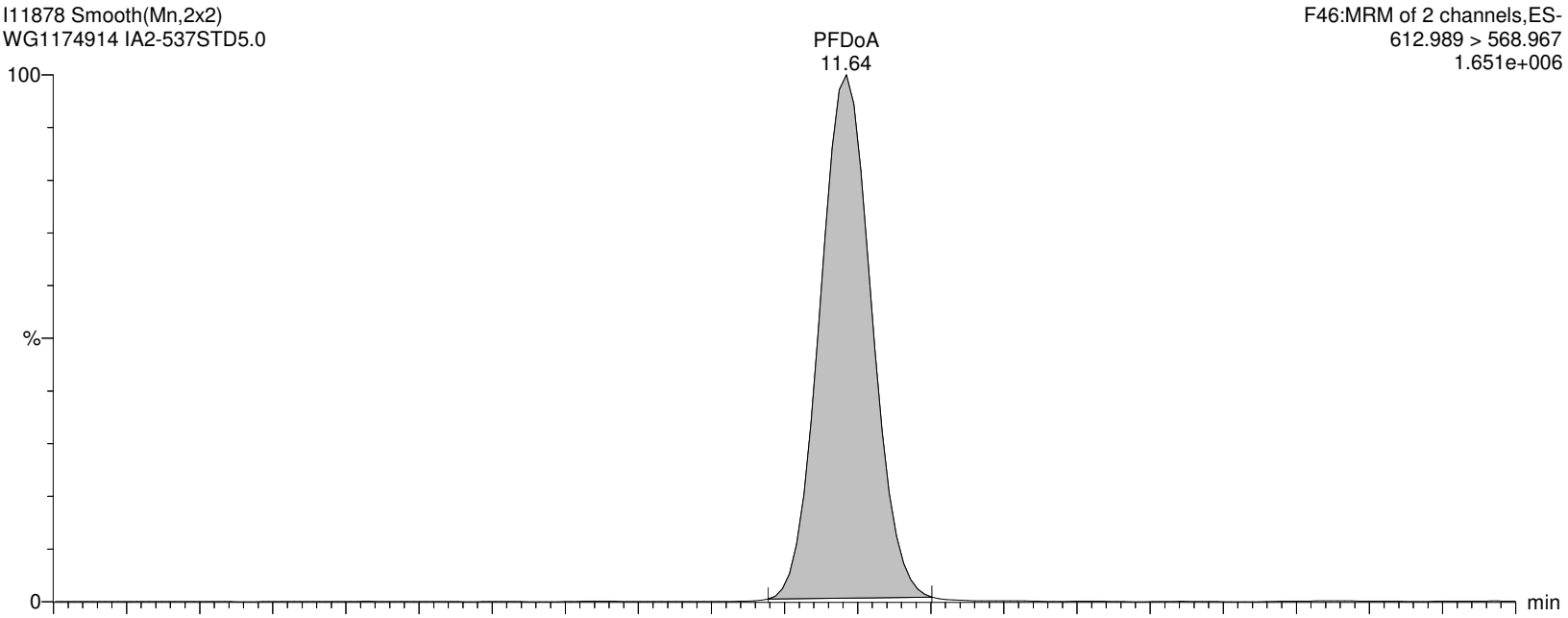

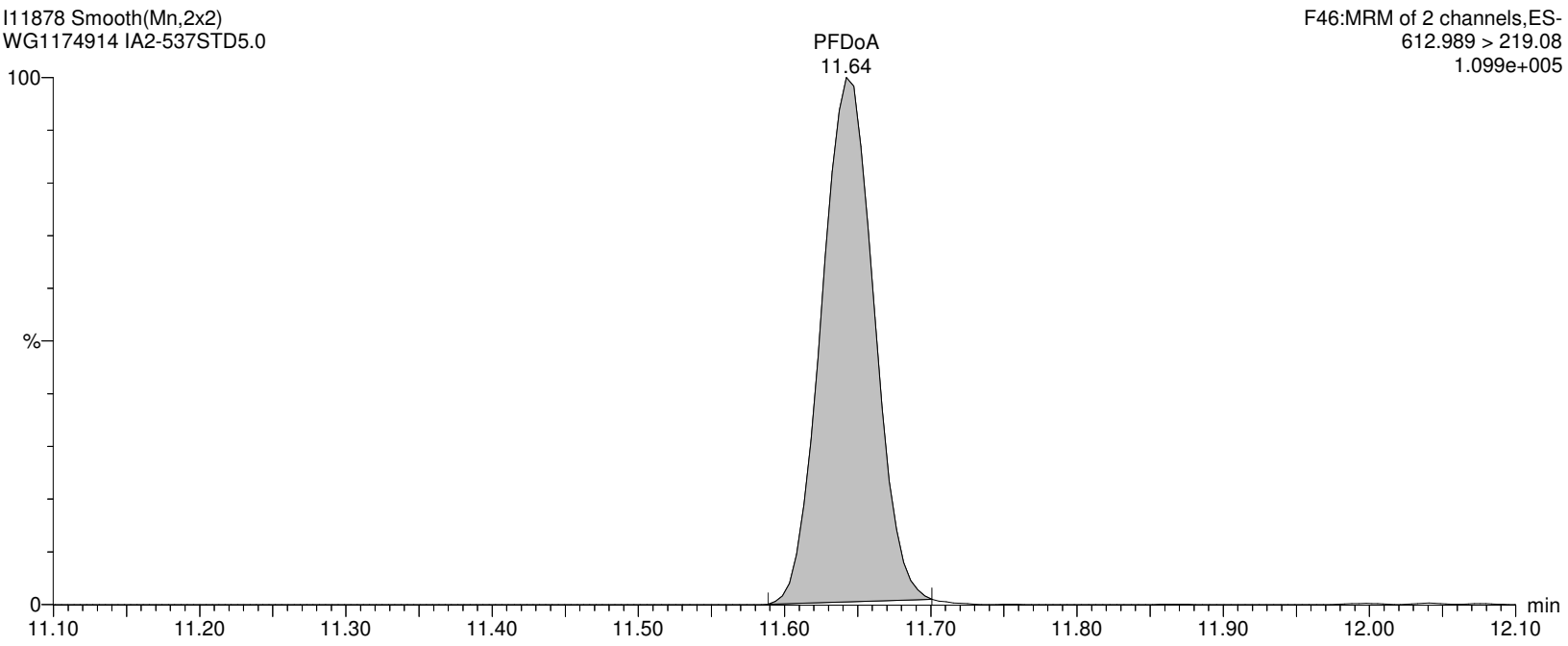

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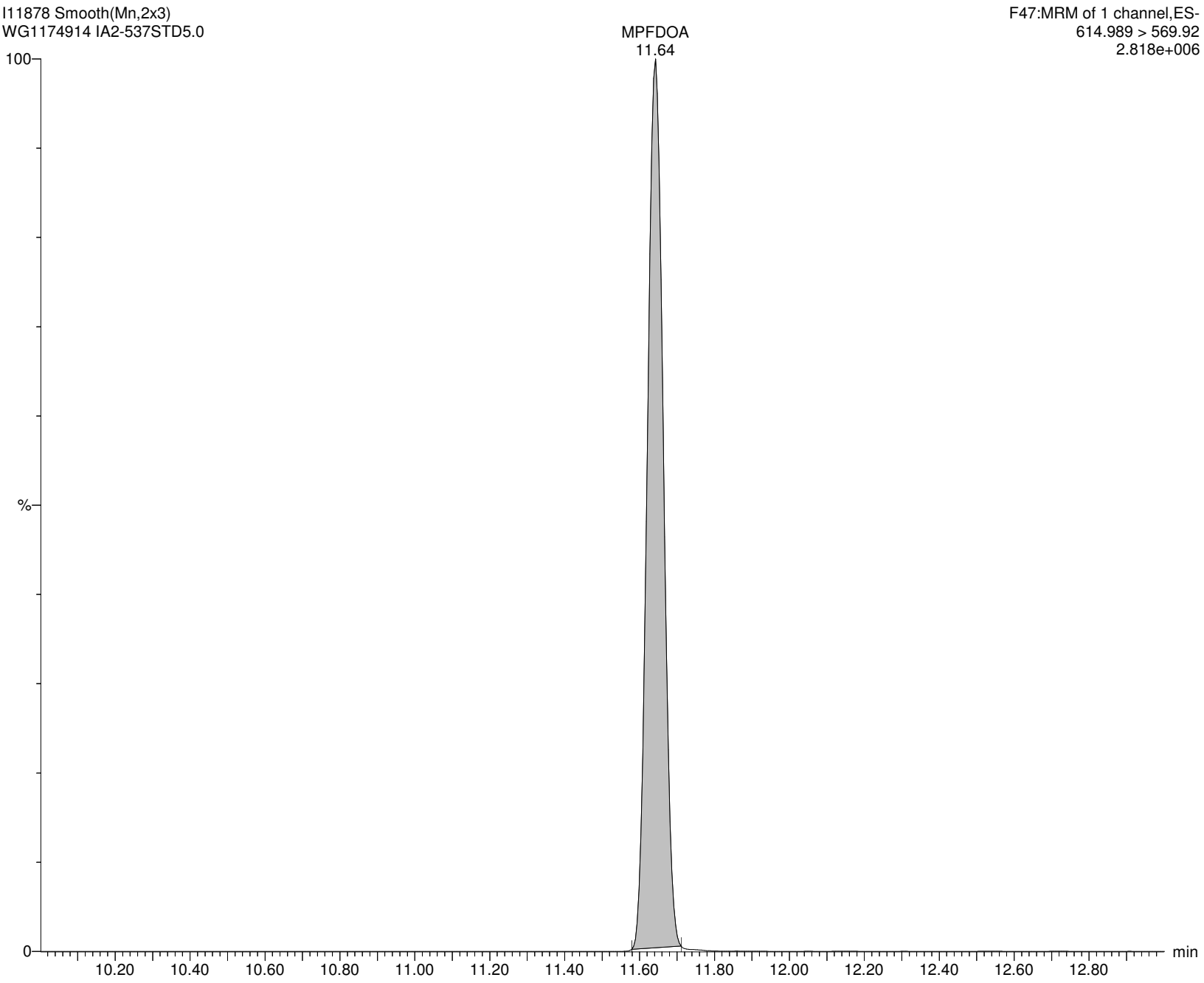

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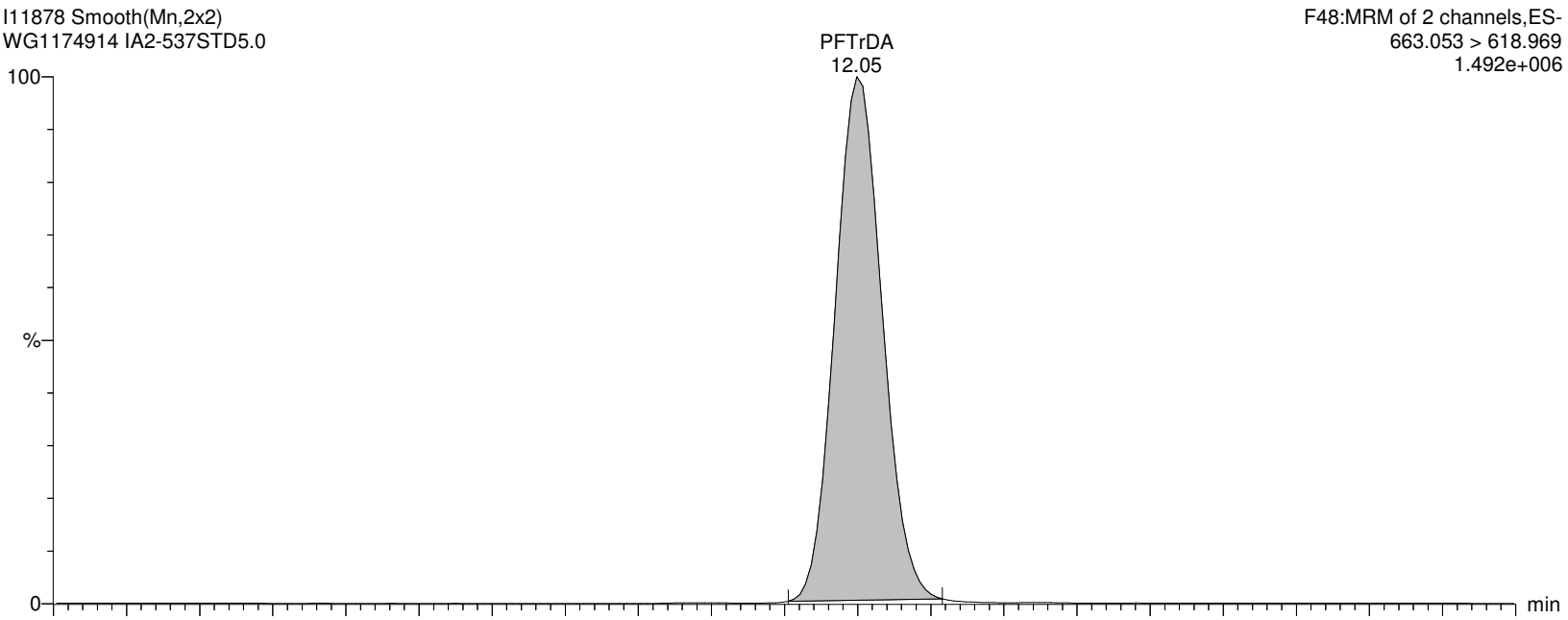

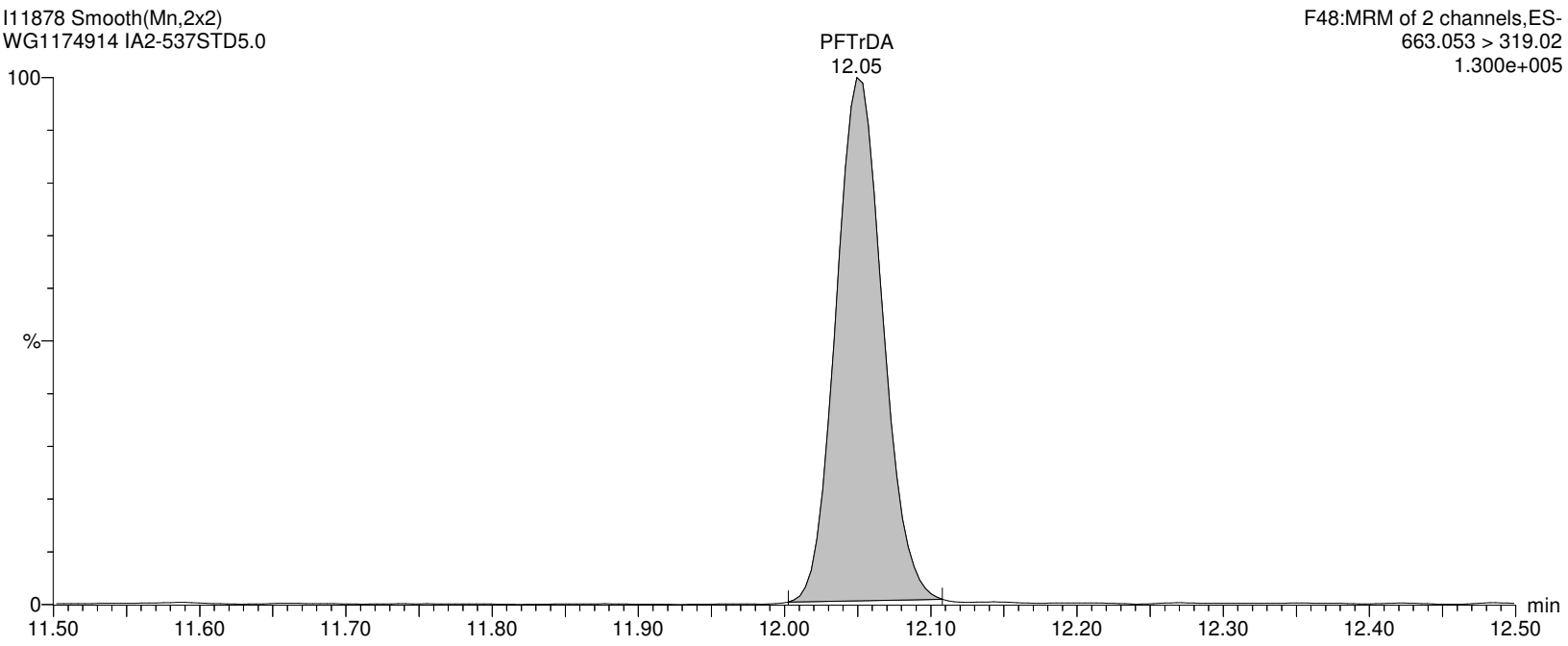

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Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:18 Eastern Daylight Time

Name: I11878
ID: IA2-537STD5.0
Date: 01-Nov-2018
Time: 17:02:14
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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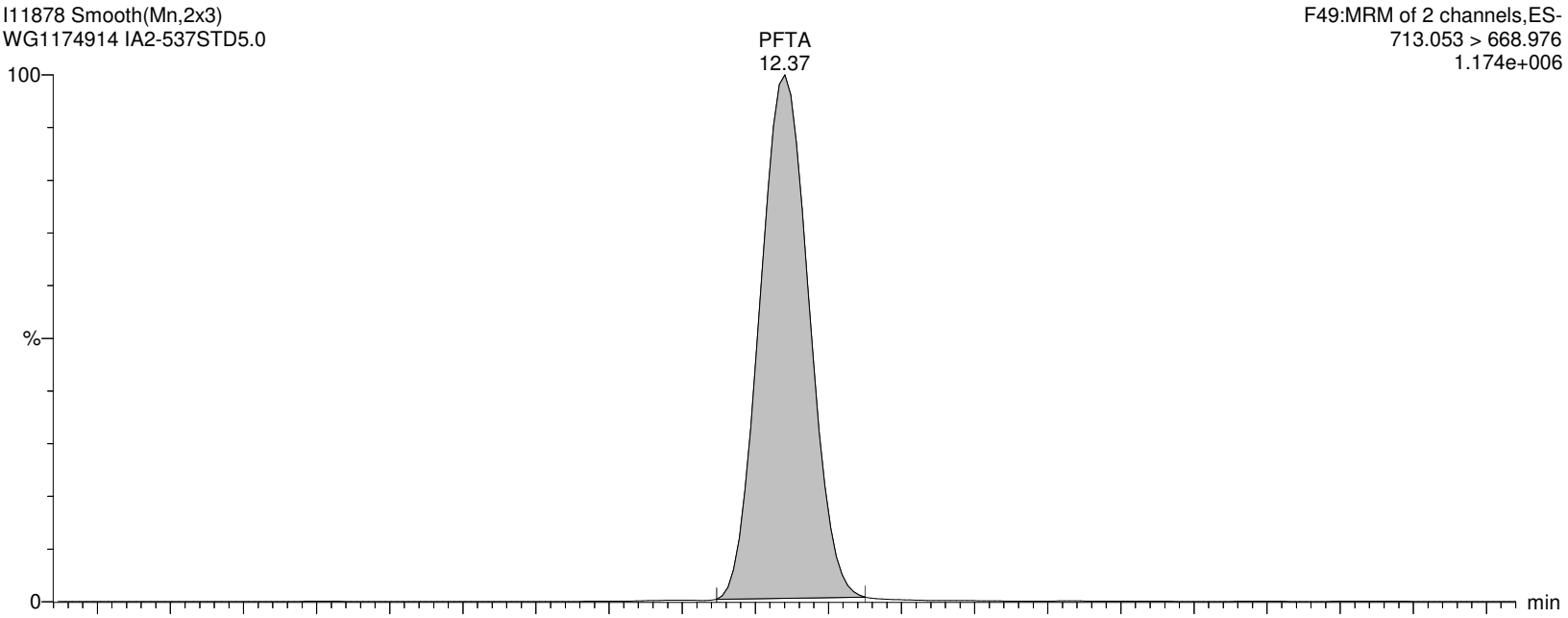

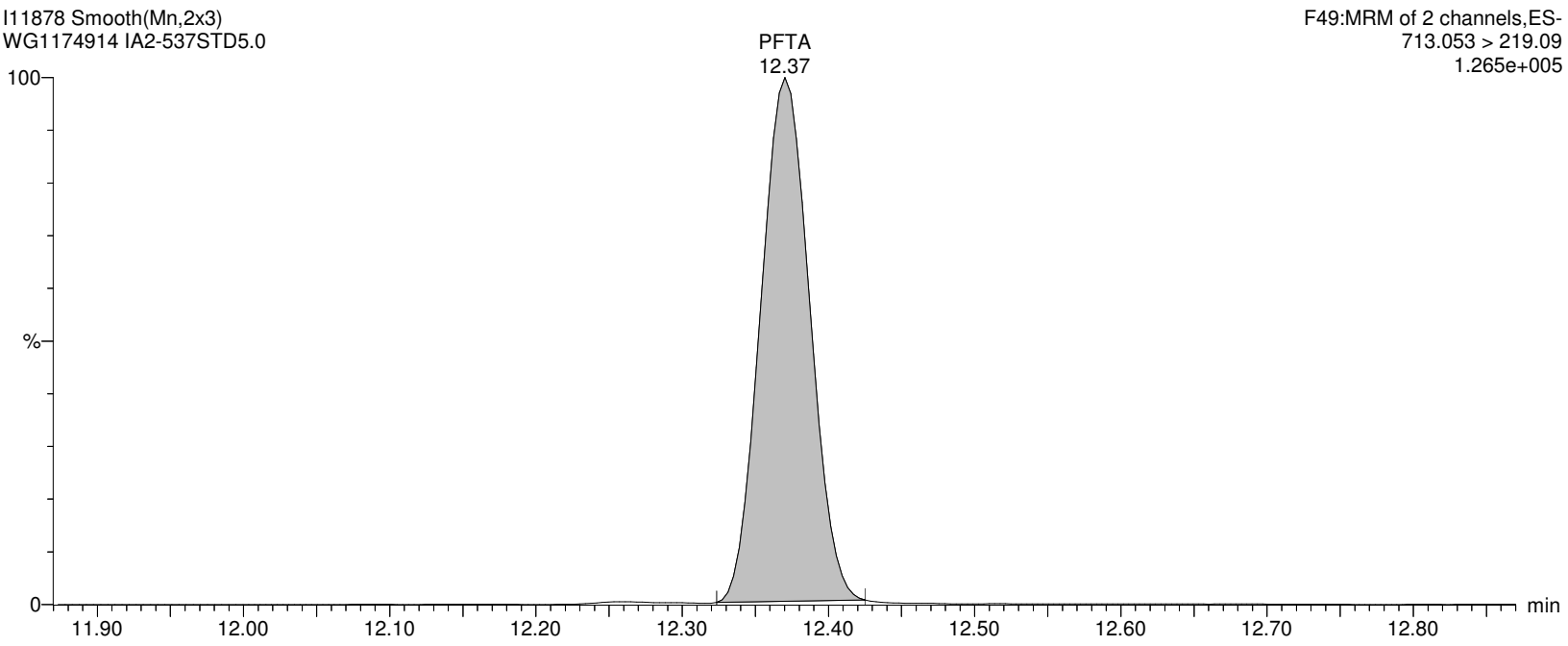

all concentration units in (ng/mL)

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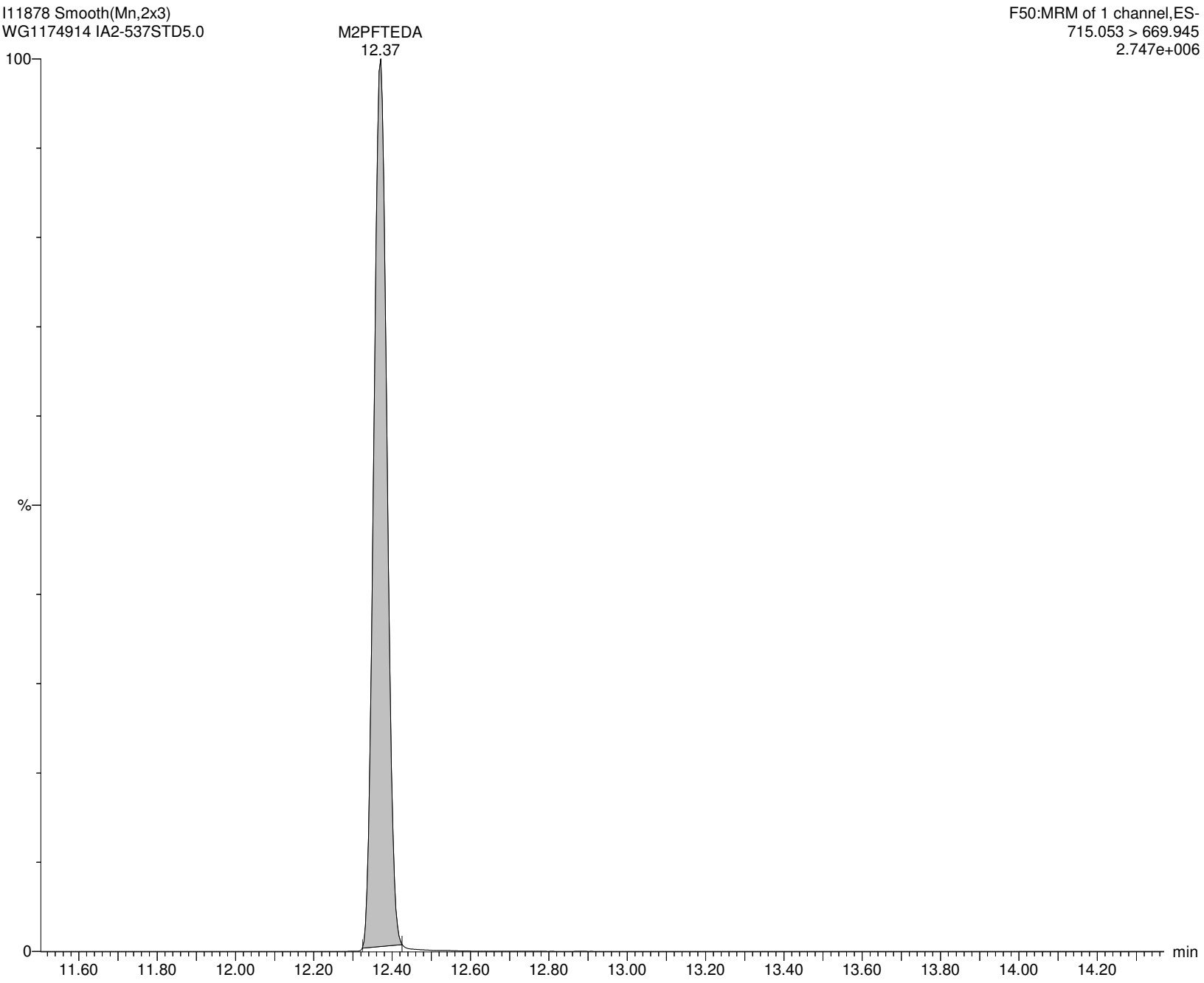

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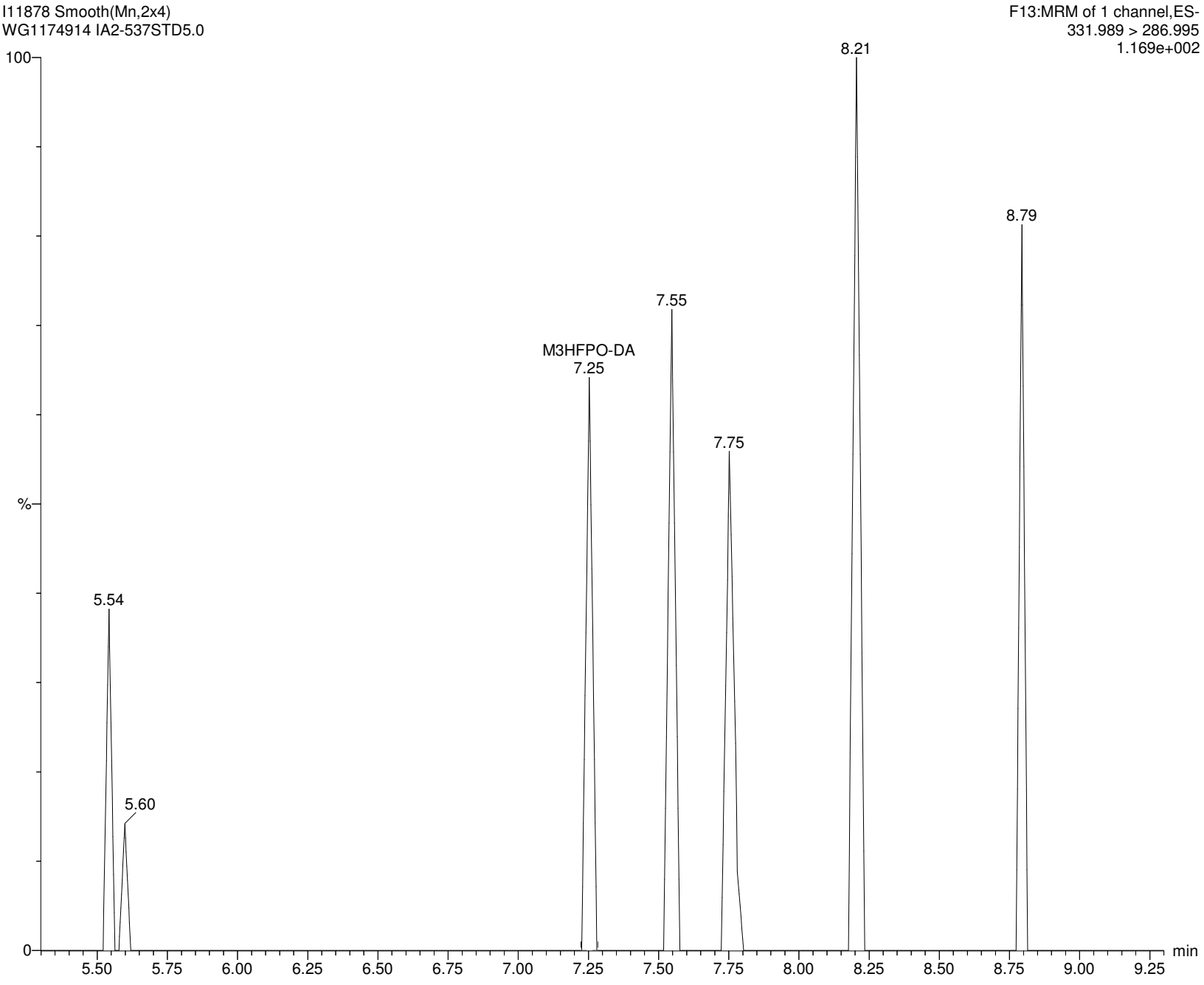

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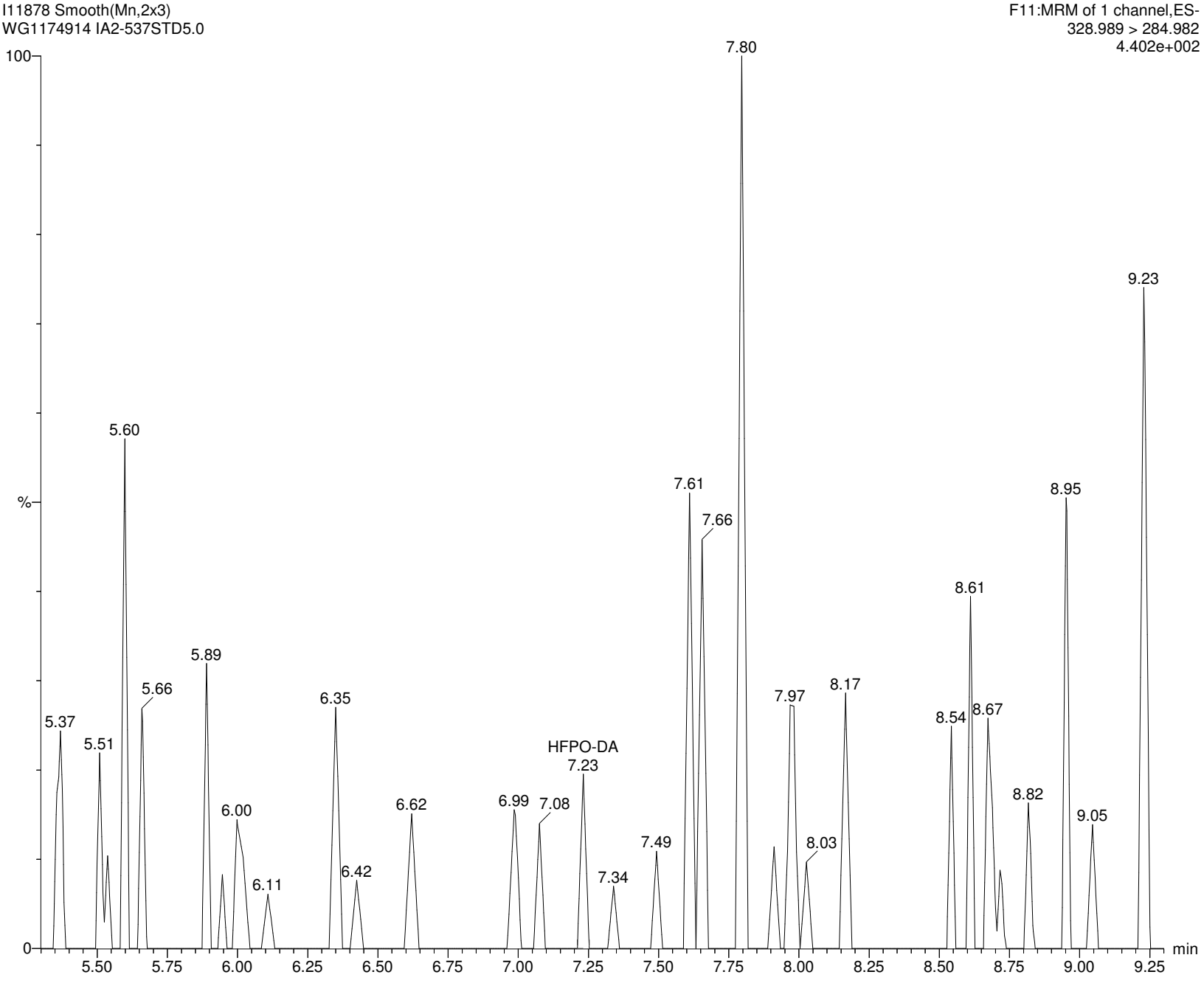

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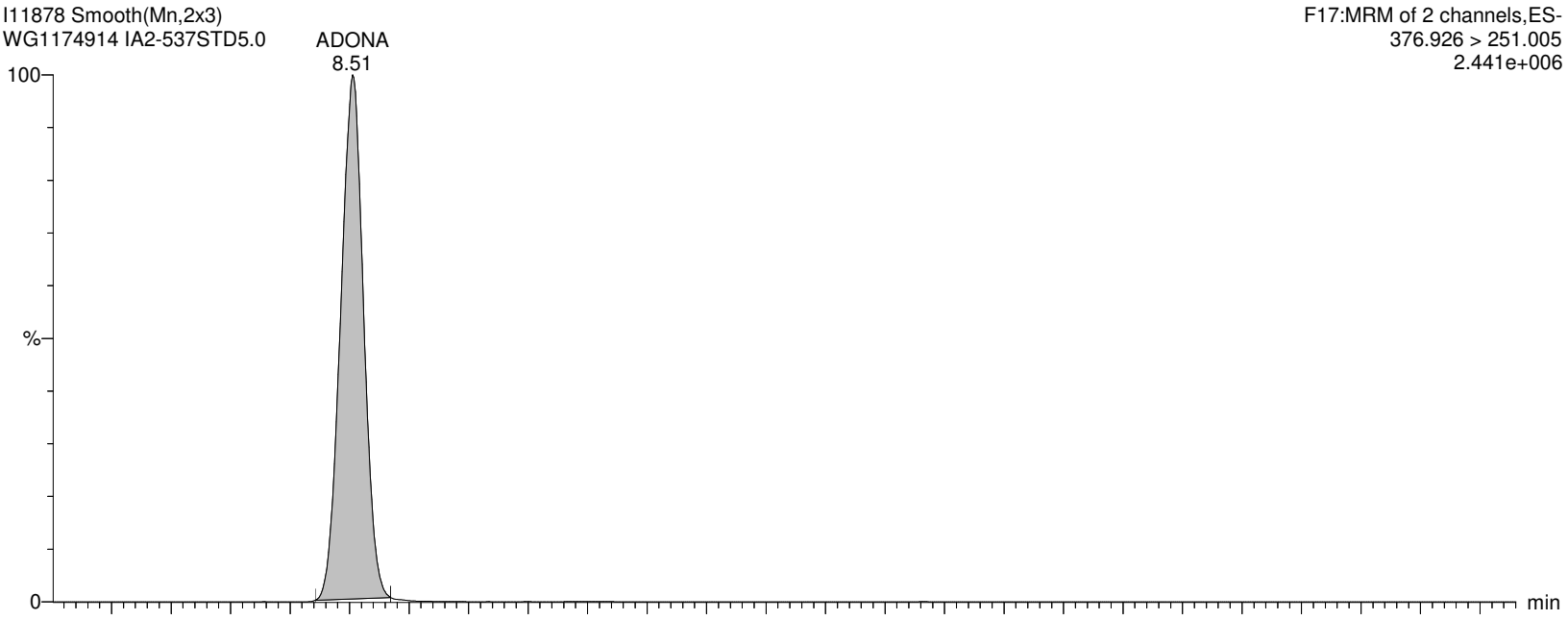

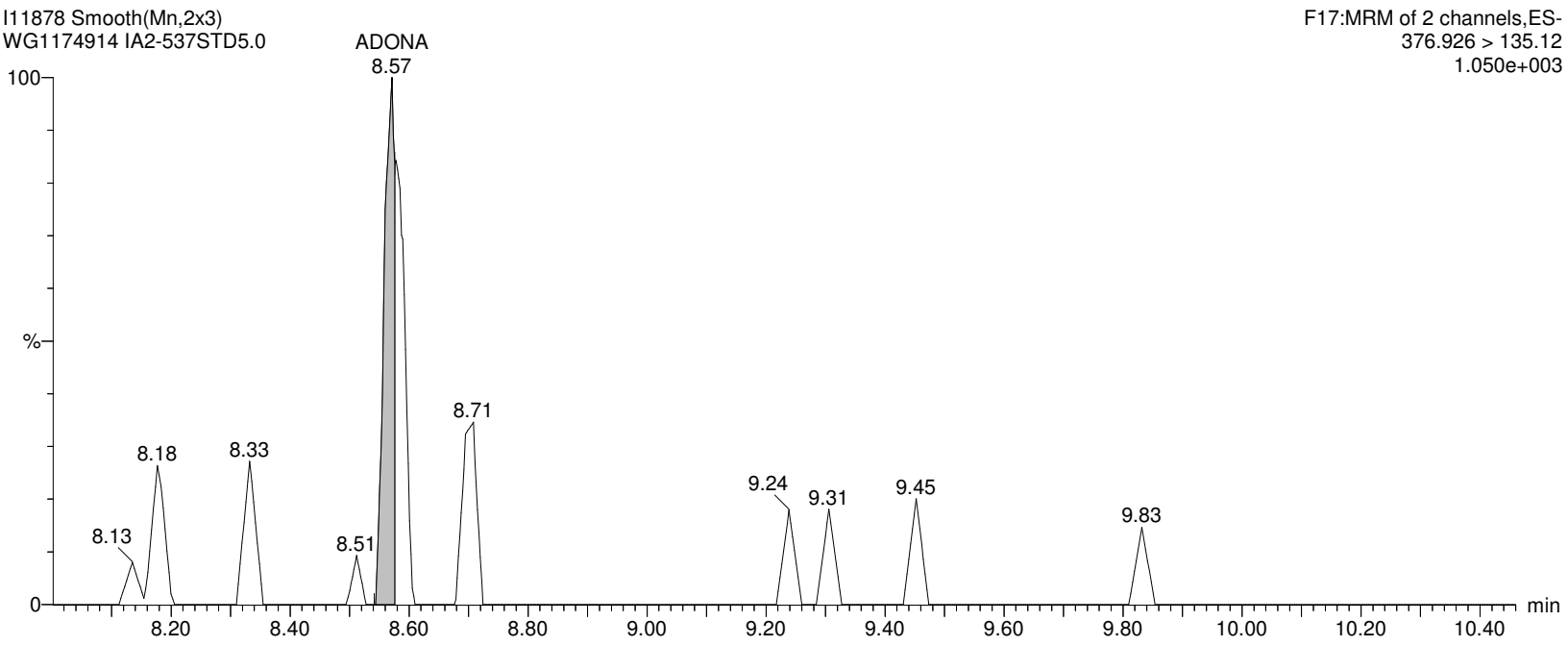

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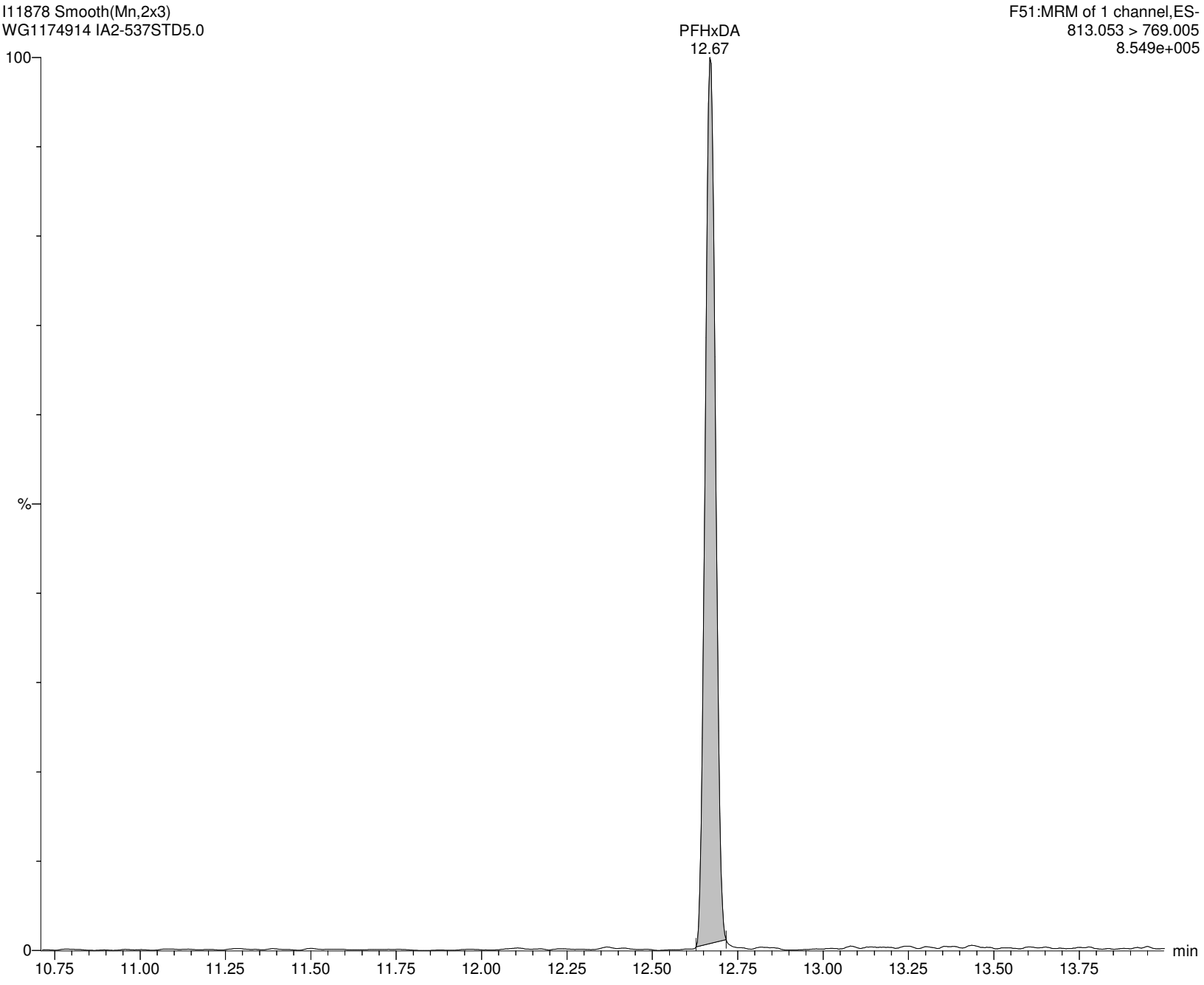

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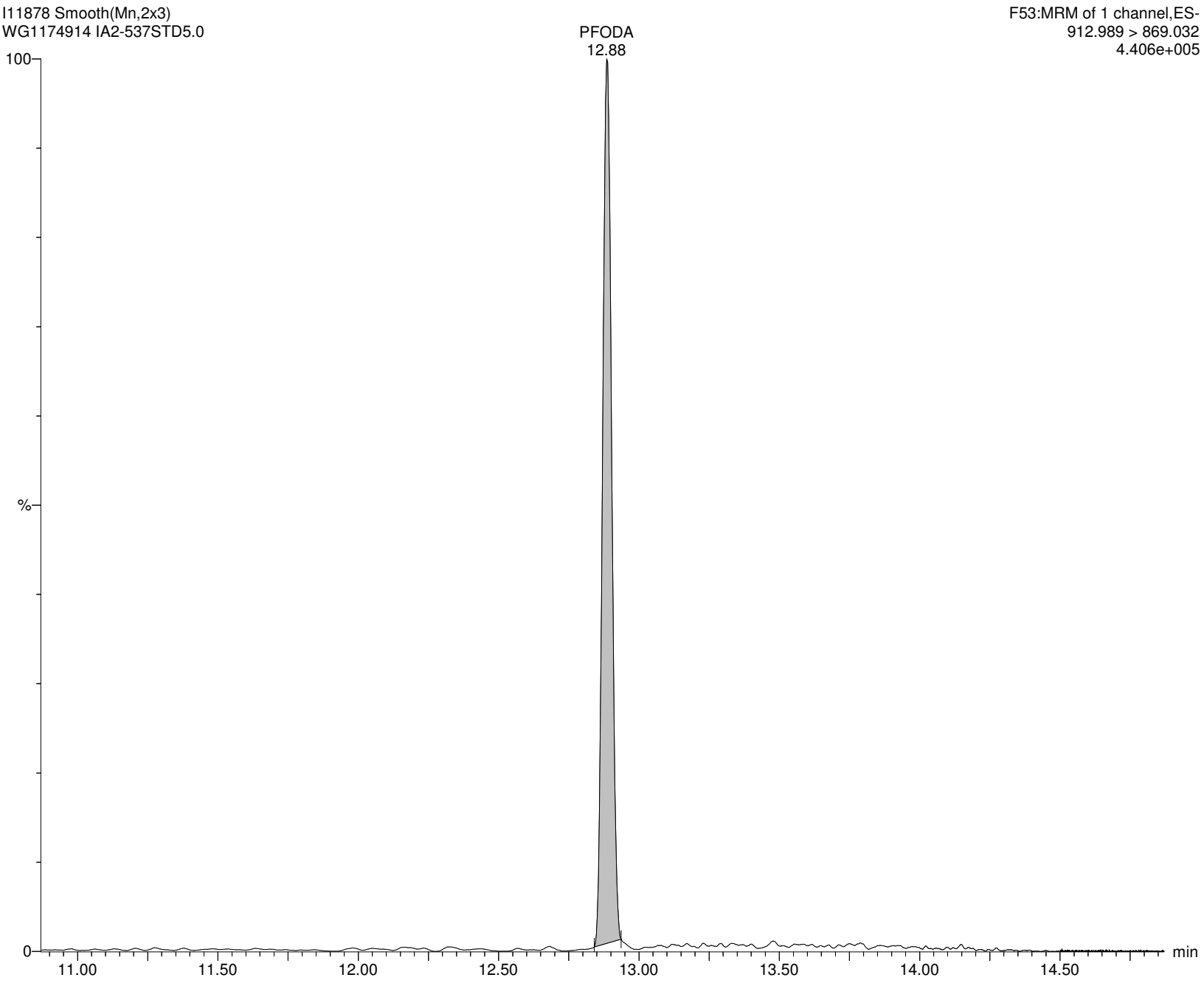

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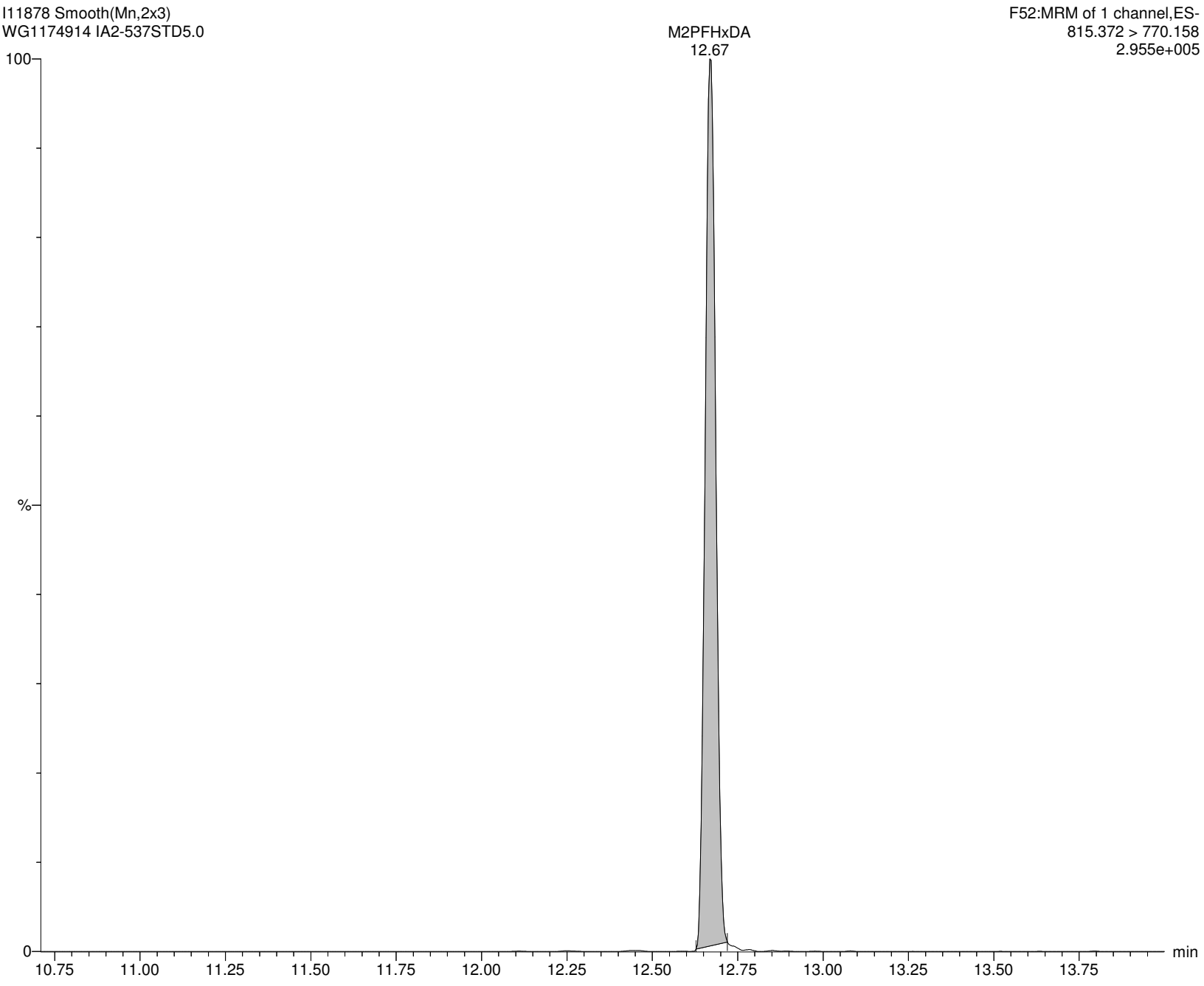

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Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD1.0
Name: I11879
Date: 01-Nov-2018
Time: 17:18:53
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	7100		0.918		na	91.8
2	M3PFBA	INT STD	2.12	215.926 > 172.122	90223		9.747		na	97.5
3	MPFBA	INT STD	2.12	216.926 > 172.137	88462		10.322		na	103.2
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	10492		0.944		na	94.4
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	117924		10.662		na	106.6
6	PFBS	375-73-5	5.78	298.989 > 80.295	1577		0.845		na	95.5
7	M3PFBS	INT STD	5.77	301.989 > 80.254	21034		9.885		na	98.8
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	1003		0.969	2.04	YES	103.7
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	10208		7.734		na	77.3
10	PFHxA	307-24-4	7.04	312.989 > 269.028	13056		0.911	17.19	NO	91.1
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	147626		10.537		na	105.4
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	1618		0.745	2.07	NO	79.3
13	PFHpA	375-85-9	8.33	362.926 > 319.014	16017		0.945	5.41	NO	94.5
14	M4PFHpA	INT STD	8.33	366.926 > 321.979	172203		10.453		na	104.5
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	220		0.108	1.28	YES	63.3
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	1166		0.658	1.47	NO	89.0
17	PFHxS	355-46-4		398.926 > 80.295	1385		0.766		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	12555		10.622		na	106.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	16539		1.019	9.55	NO	101.9
21	M2PFOA	INT STD	9.28	415.032 > 369.968	194474		10.300		na	103.0
22	PFOA	335-67-1		412.989 > 368.9	16539		1.019		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	166287		10.603		na	106.0
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	822		0.914	1.00	NO	96.2
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	8966		8.183		na	81.8
26	PFHpS	375-92-8	9.38	448.926 > 80.257	866		0.845	0.84	NO	88.9
27	PFNA	375-95-1	10.03	462.989 > 418.931	13738		0.981	4.11	NO	98.1
28	M9PFNA	INT STD	10.02	472.053 > 426.947	167714		10.722		na	107.2
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	397		0.164	3.31	YES	81.8
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	1080		0.625	1.35	NO	85.6
31	PFOS	1763-23-1		498.989 > 80.294	1477		0.788		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	17070		10.537		na	105.4
33	M8PFOS	INT STD	10.07	507.053 > 80.294	16554		10.399		na	104.0
34	PFDA	335-76-2	10.65	513.053 > 468.906	13007		0.919	6.13	NO	91.9
35	M2PFDA	INT STD	10.65	515.053 > 469.934	165550		11.136		na	111.4
36	M6PFDA	INT STD	10.65	519.053 > 473.931	159495		10.670		na	106.7
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	743		1.066		na	111.0
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	5634		8.756		na	87.6
39	PFNS	68259-12-1	10.67	548.989 > 80.249	1265		0.846	1.32	NO	88.1

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User: LCMS01:AJ
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MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	13827		8.580		na	85.8
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	1373		0.987		na	98.7
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	12858		0.941	8.48	YES	94.1
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	137556		10.995		na	109.9
44	PFDS	335-77-3	11.19	598.926 > 80.314	1077		0.889	1.16	NO	92.1
45	FOSA	754-91-6	11.13	497.989 > 78.245	4421		0.891		na	89.1
46	M8FOSA	INT STD	11.13	506.053 > 78.286	50716		9.510		na	95.1
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	14185		9.126		na	91.3
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	1329		0.916	2.61	YES	91.6
49	PFDoA	307-55-1	11.65	612.989 > 568.967	13224		1.044	15.24	YES	104.4
50	MPFDOA	INT STD	11.65	614.989 > 569.92	135831		9.663		na	96.6
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	10279		0.965	11.88	NO	96.5
52	PFTA	376-06-7	12.37	713.053 > 668.976	8672		1.015	9.72	NO	101.5
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	101765		9.774		na	97.7
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	19855		0.902	3781.92	NO	95.4
57	PFHxDA		12.67	813.053 > 769.005	6936		1.070		na	107.0
58	PFODA		12.89	912.989 > 869.032	2933		0.752		na	75.2
59	M2PFHxDA		12.67	815.372 > 770.158	10715		9.893		na	98.9

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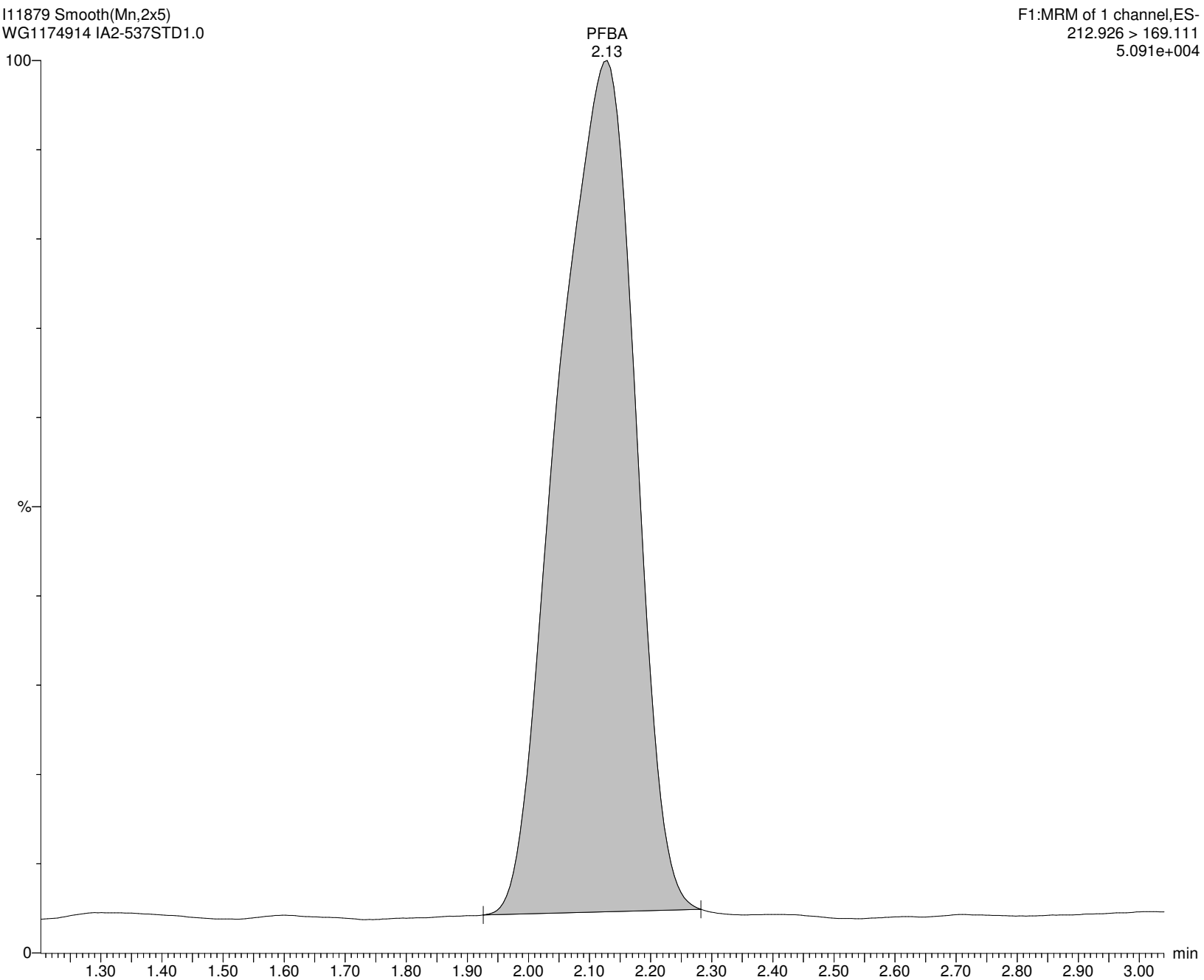

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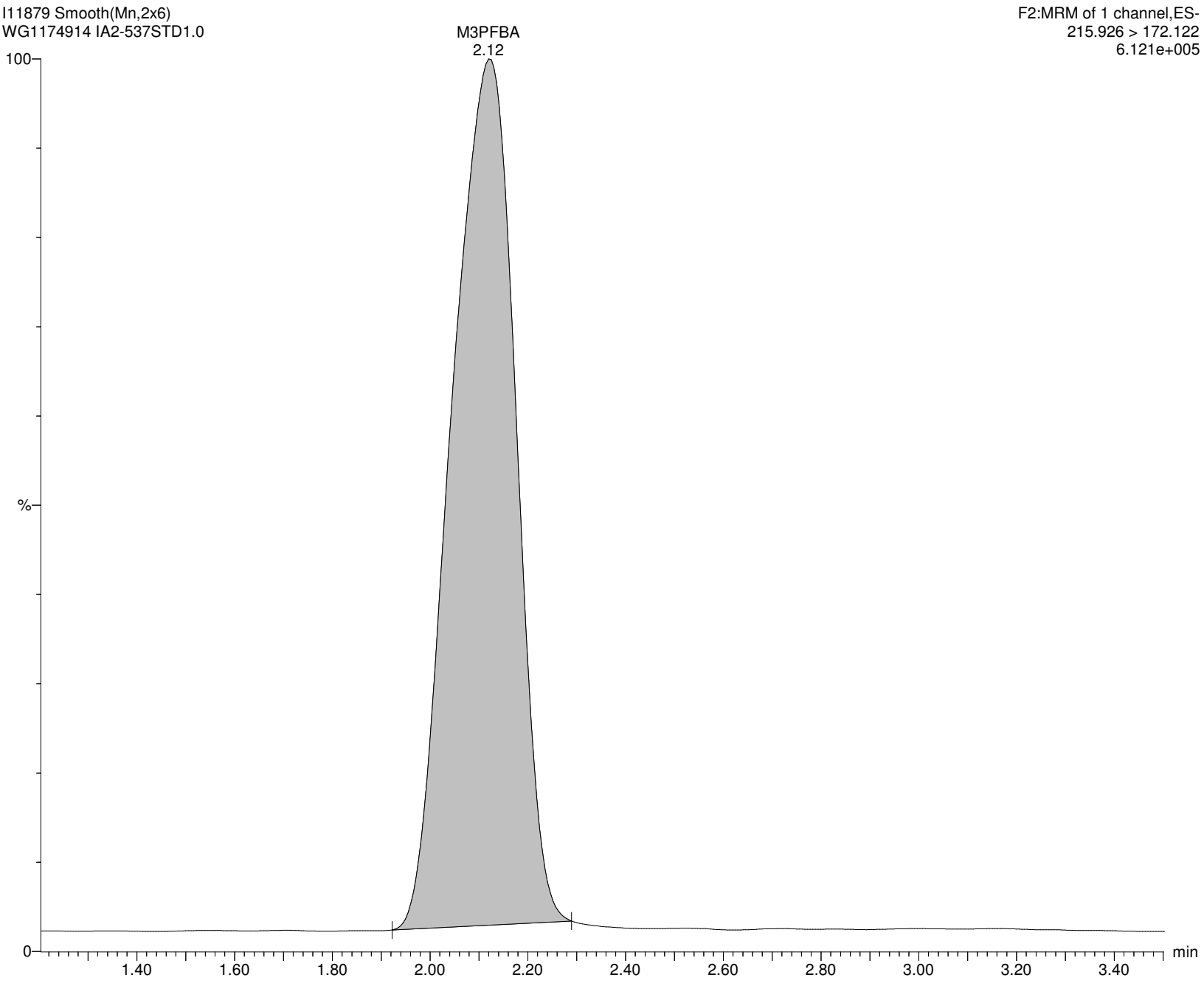

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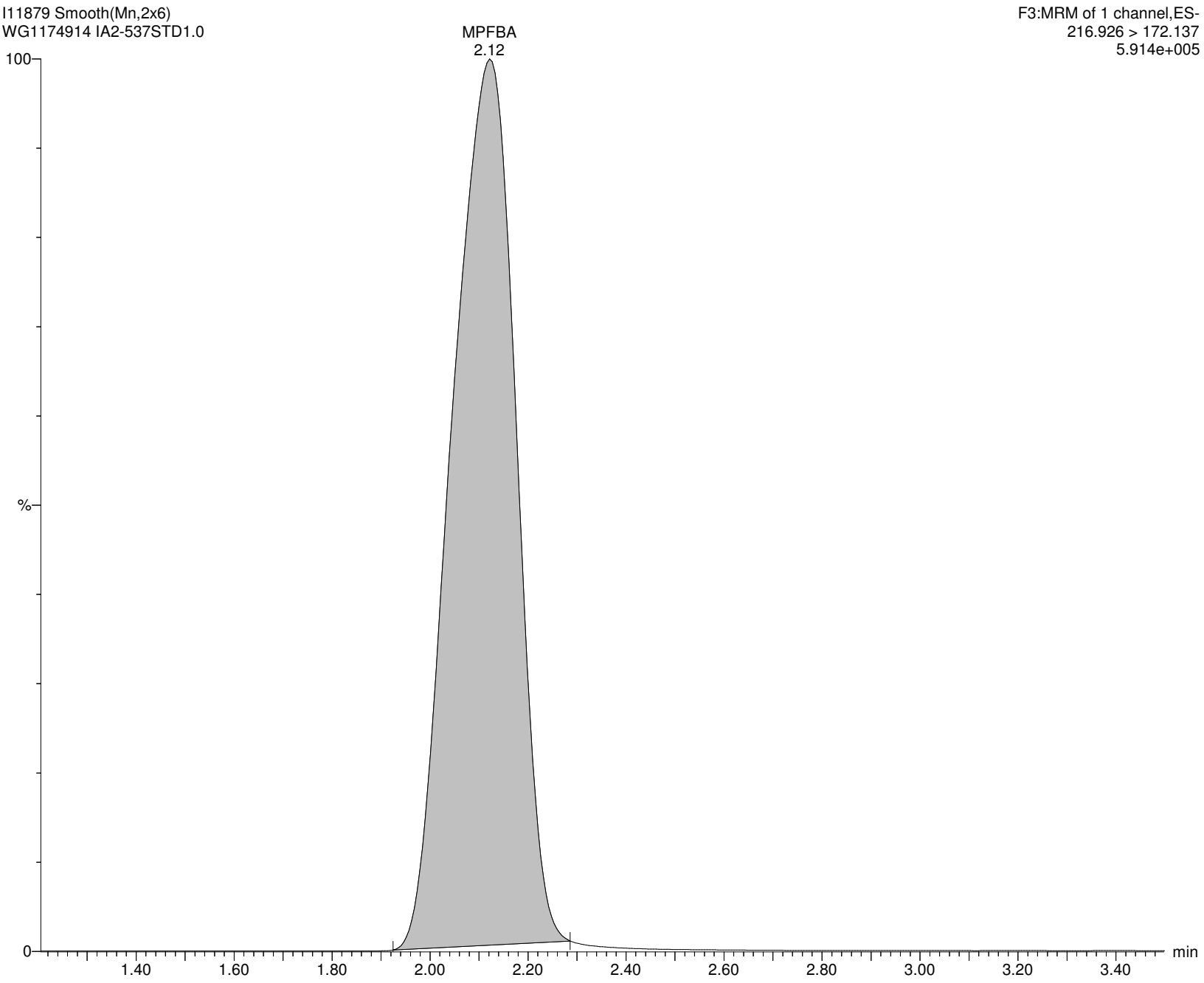

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:19 Eastern Daylight Time

Name: I11879
ID: IA2-537STD1.0
Date: 01-Nov-2018
Time: 17:18:53
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
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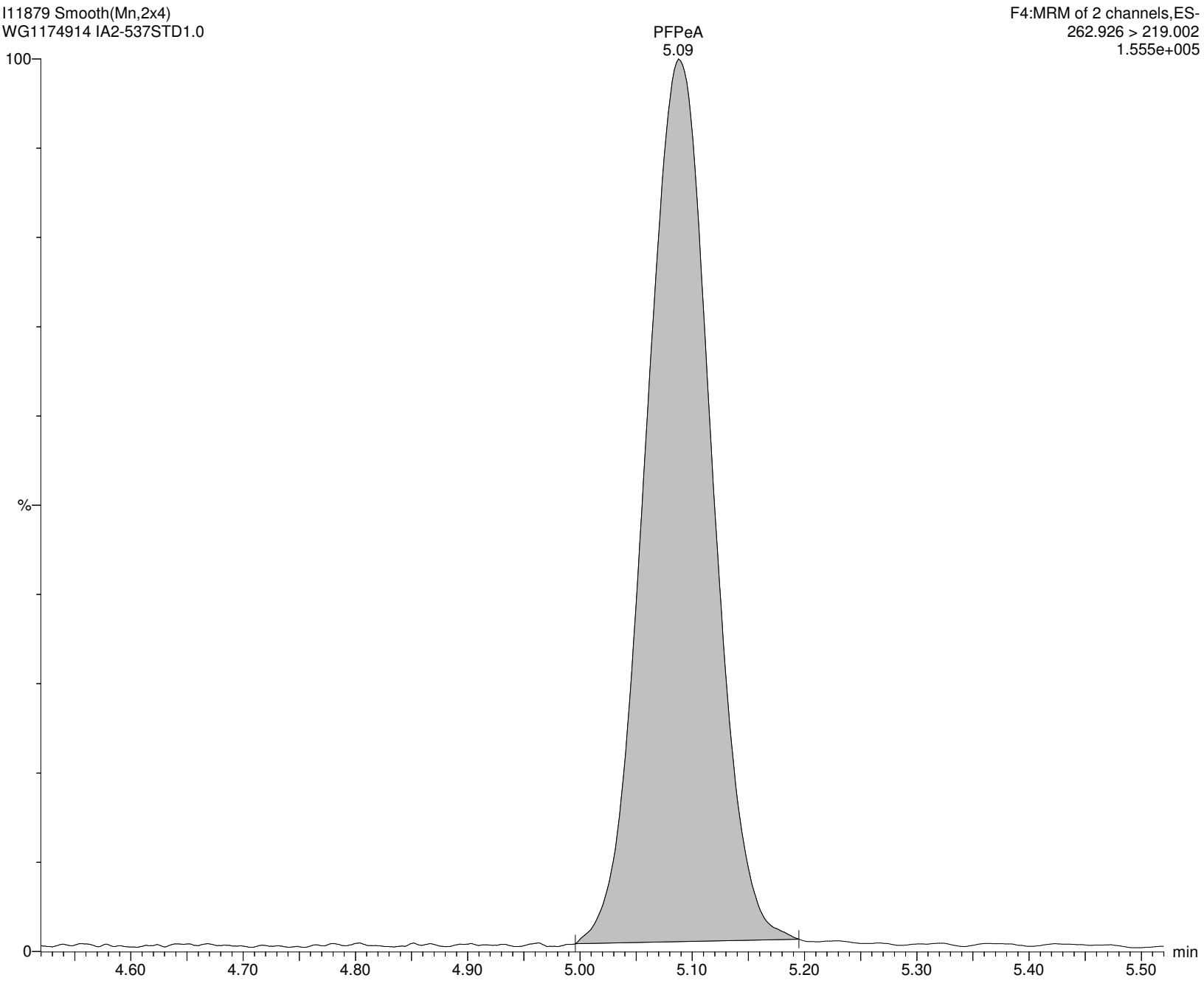

all concentration units in (ng/mL)

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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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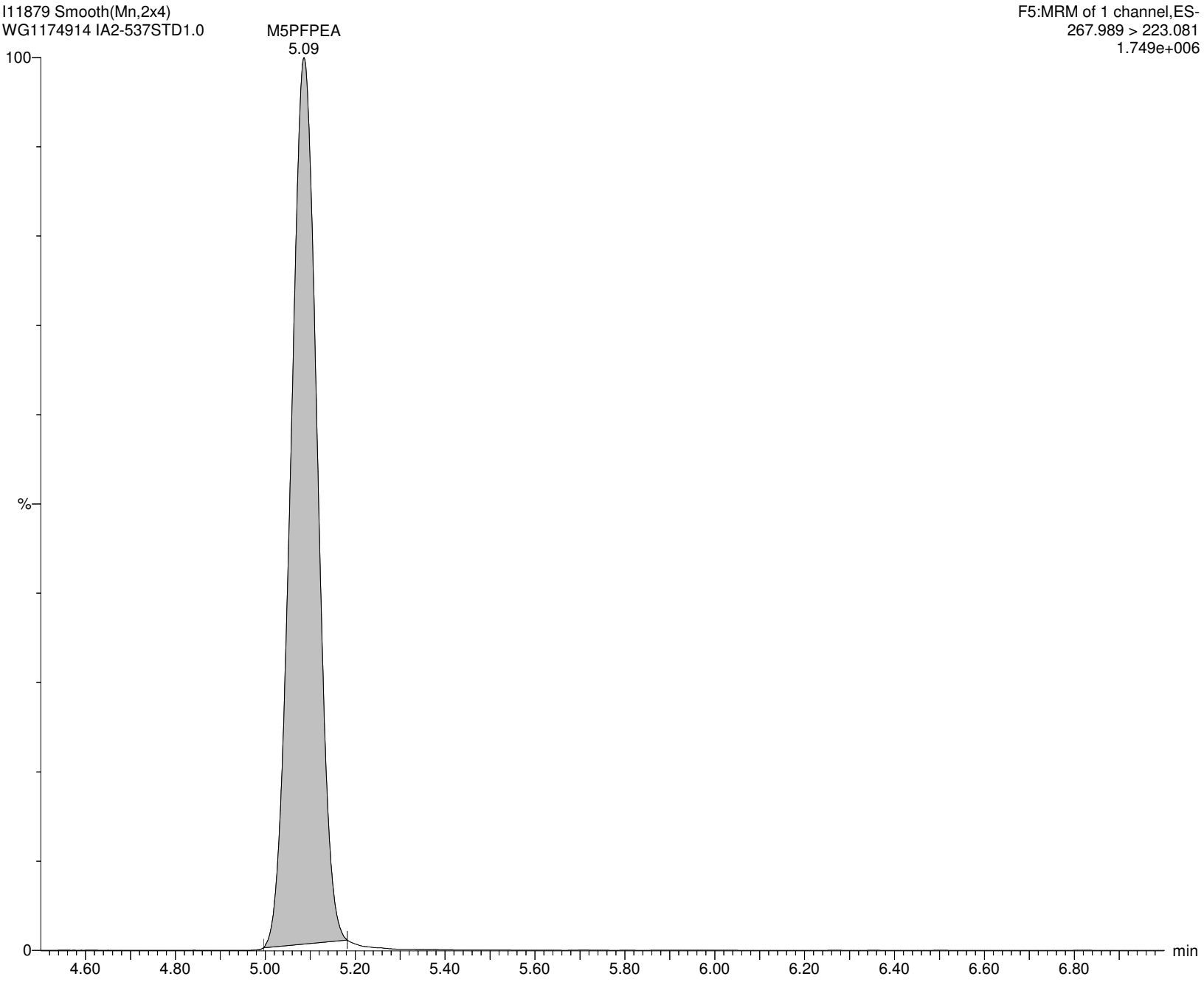

all concentration units in (ng/mL)

Alpha Analytical Inc.
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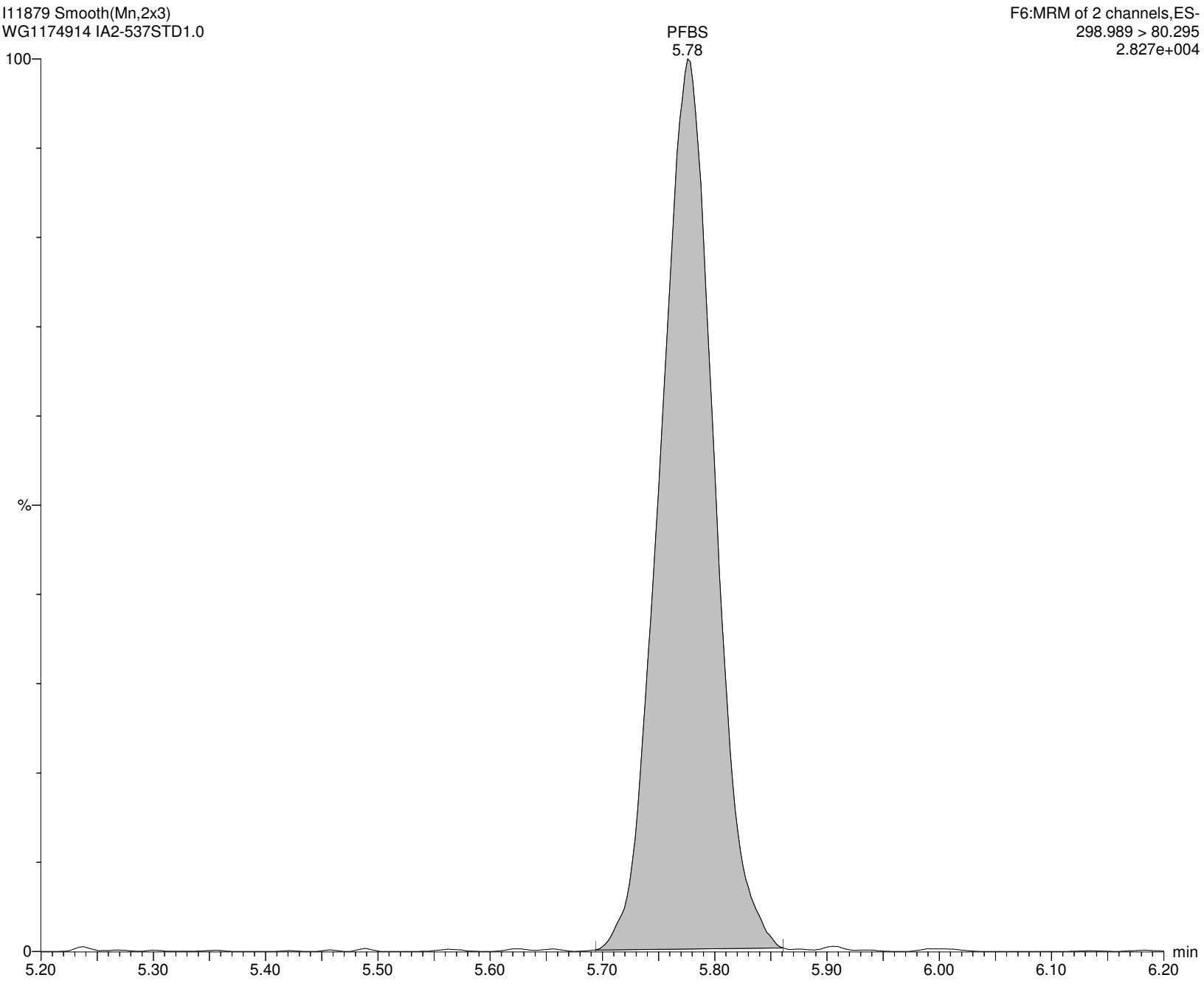

all concentration units in (ng/mL)

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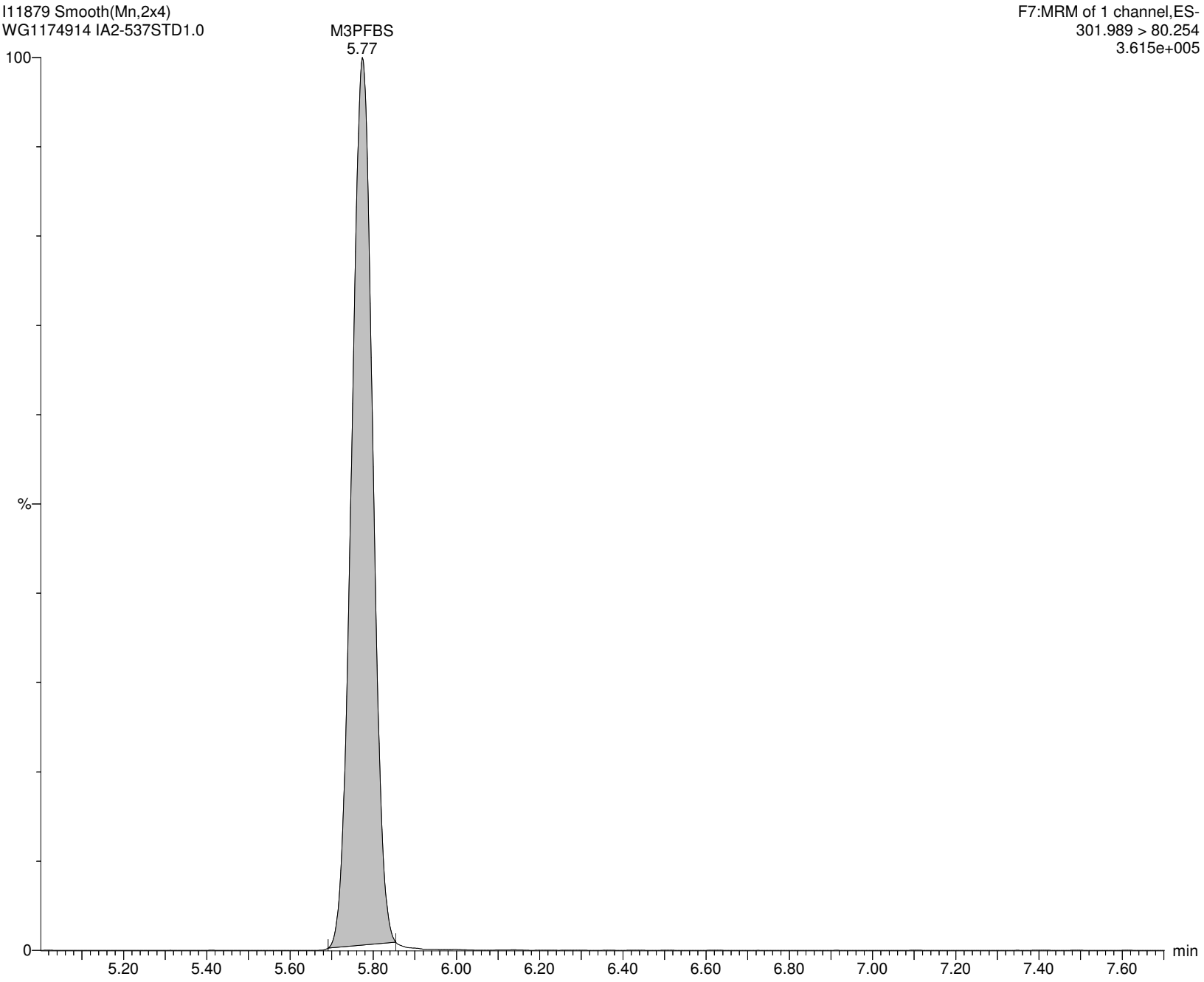
M3PFBS



all concentration units in (ng/mL)

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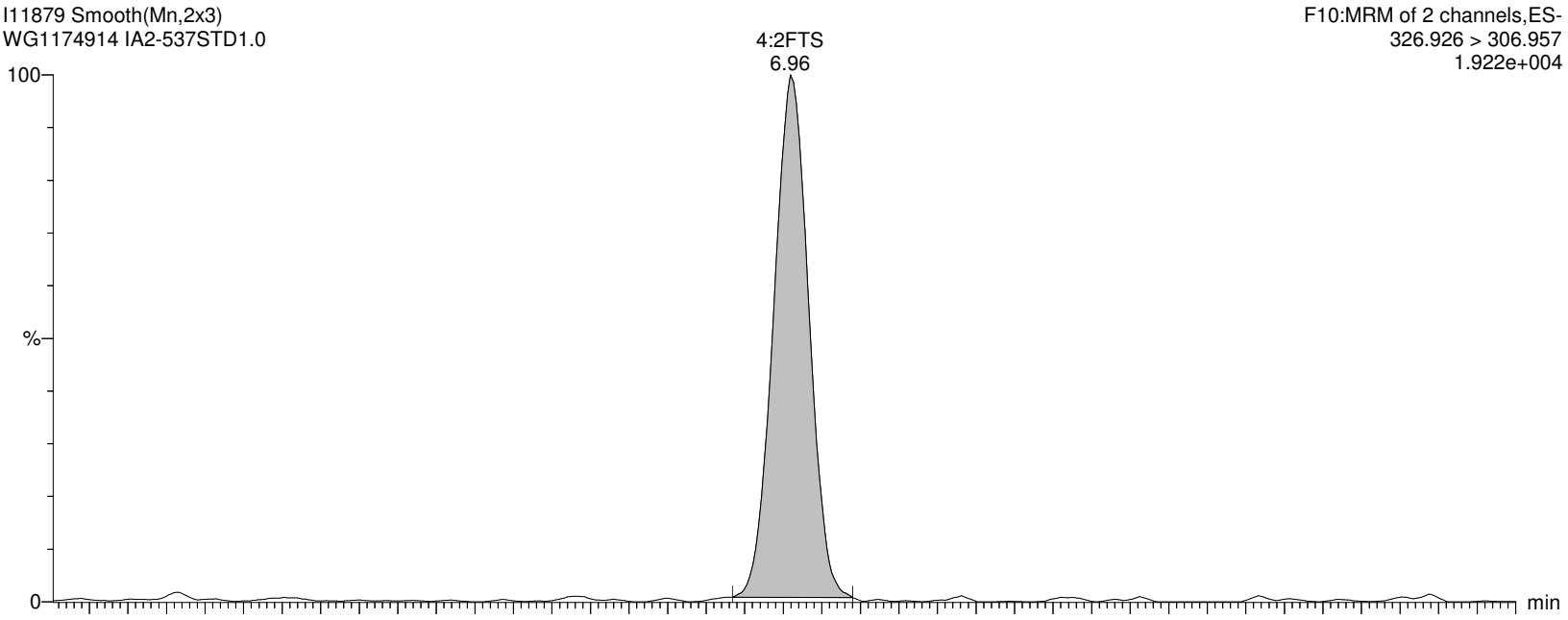
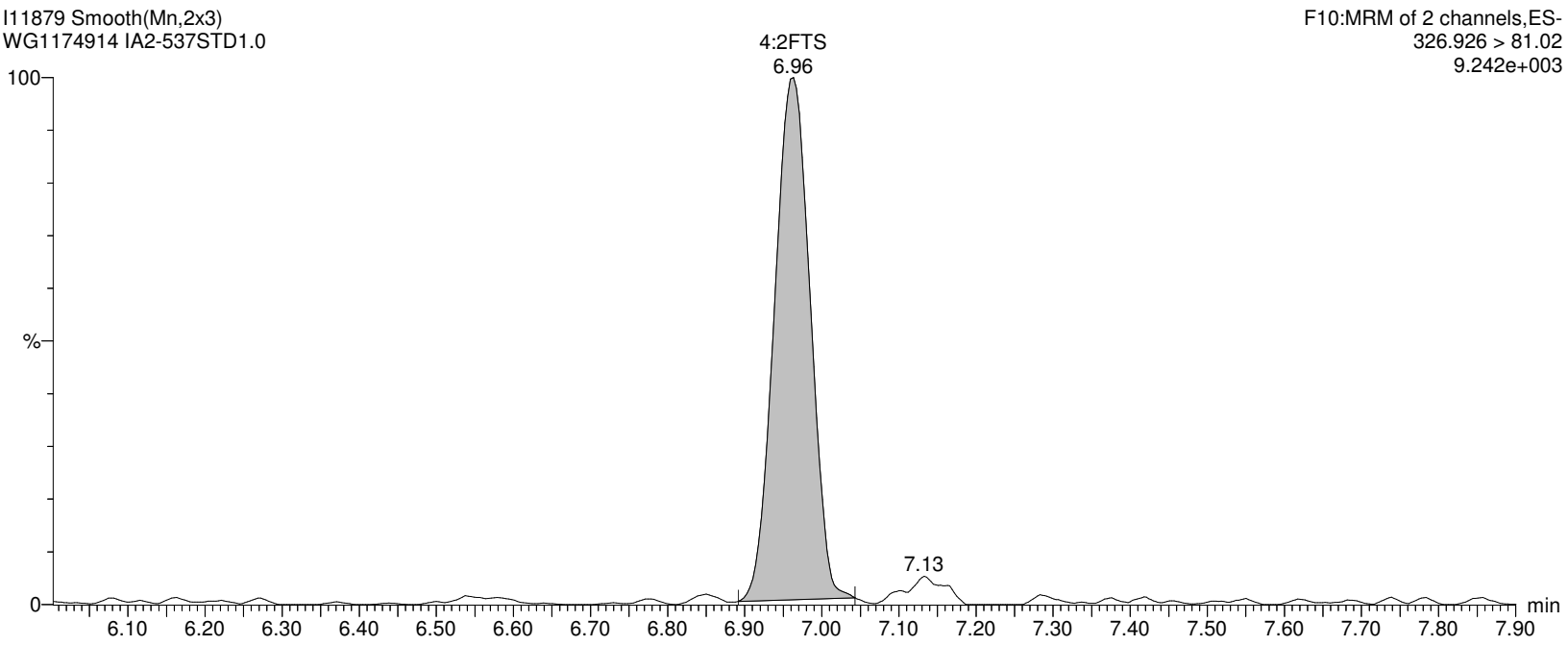
4:2FTS





all concentration units in (ng/mL)

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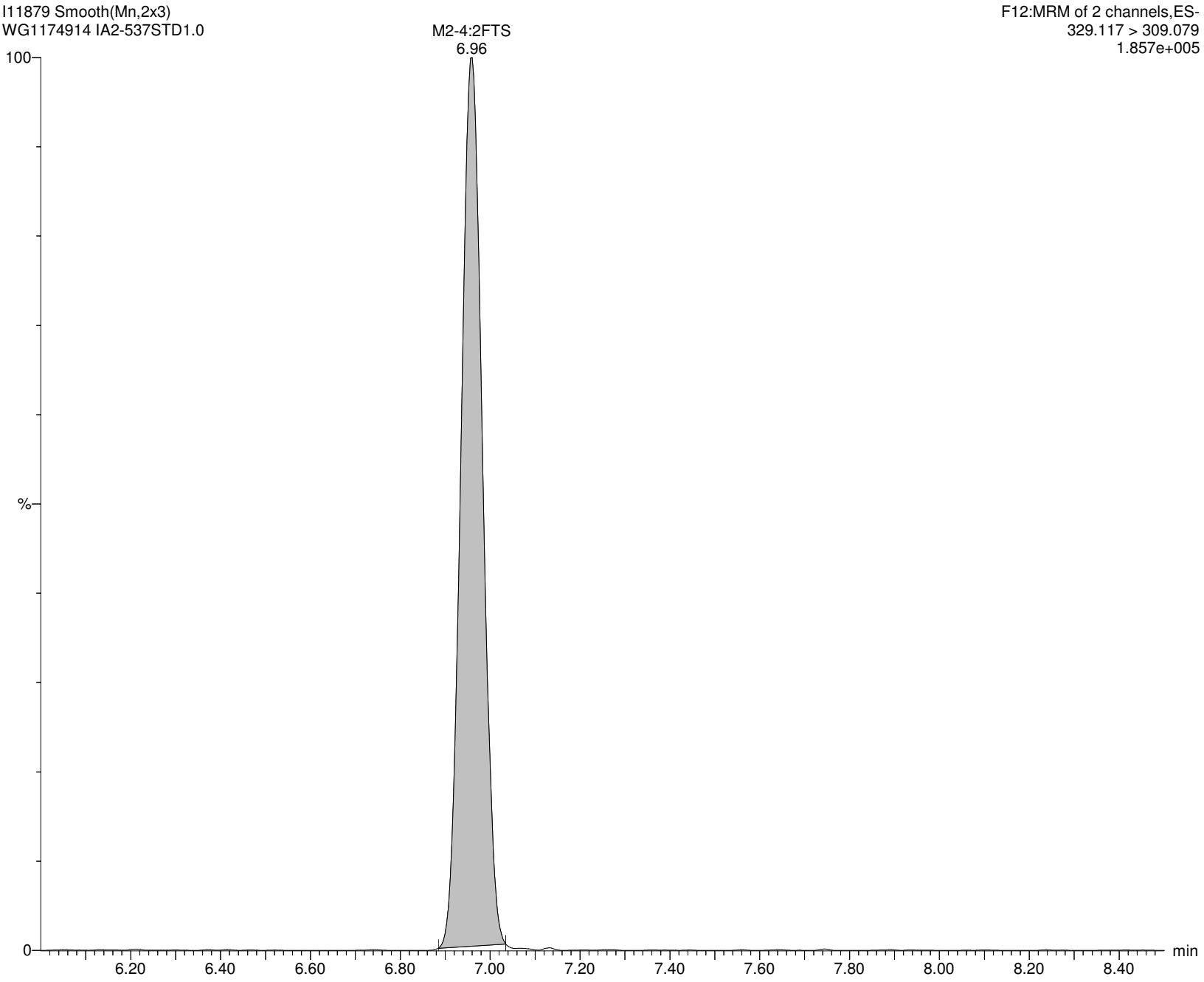
M2-4:2FTS



all concentration units in (ng/mL)

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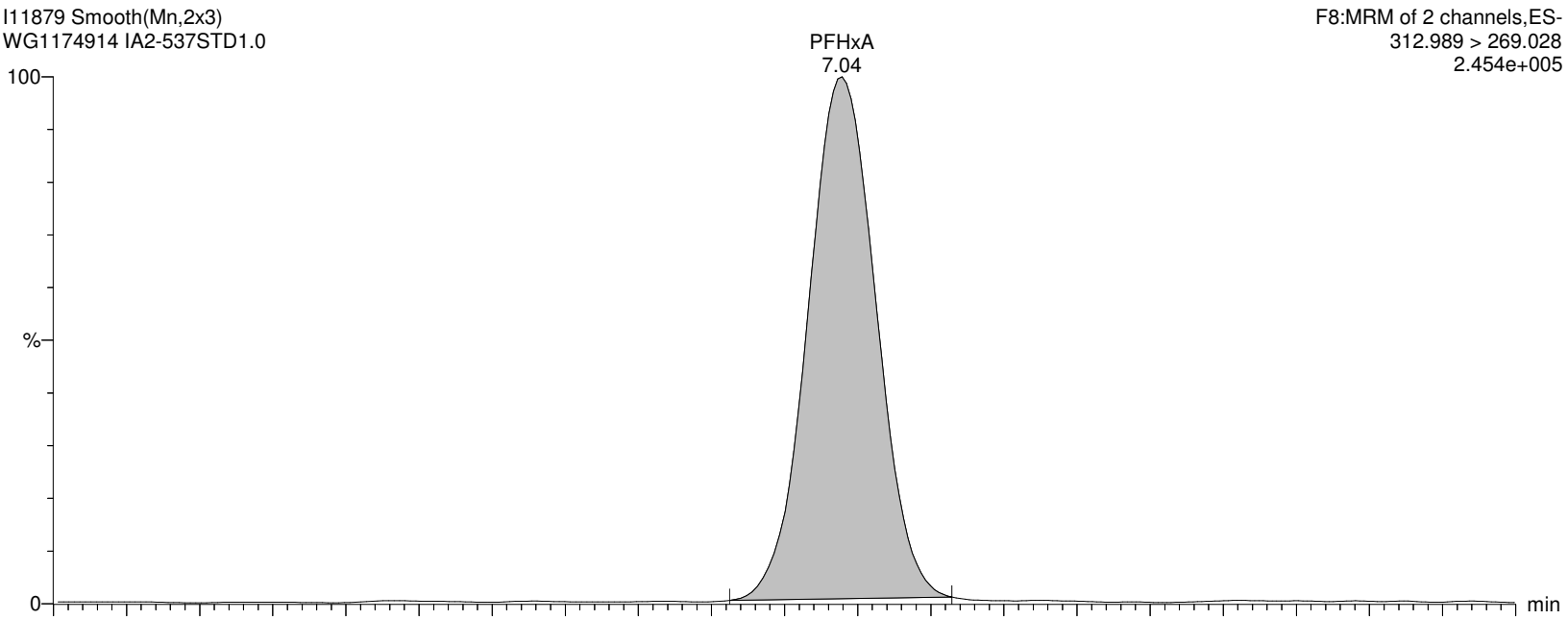
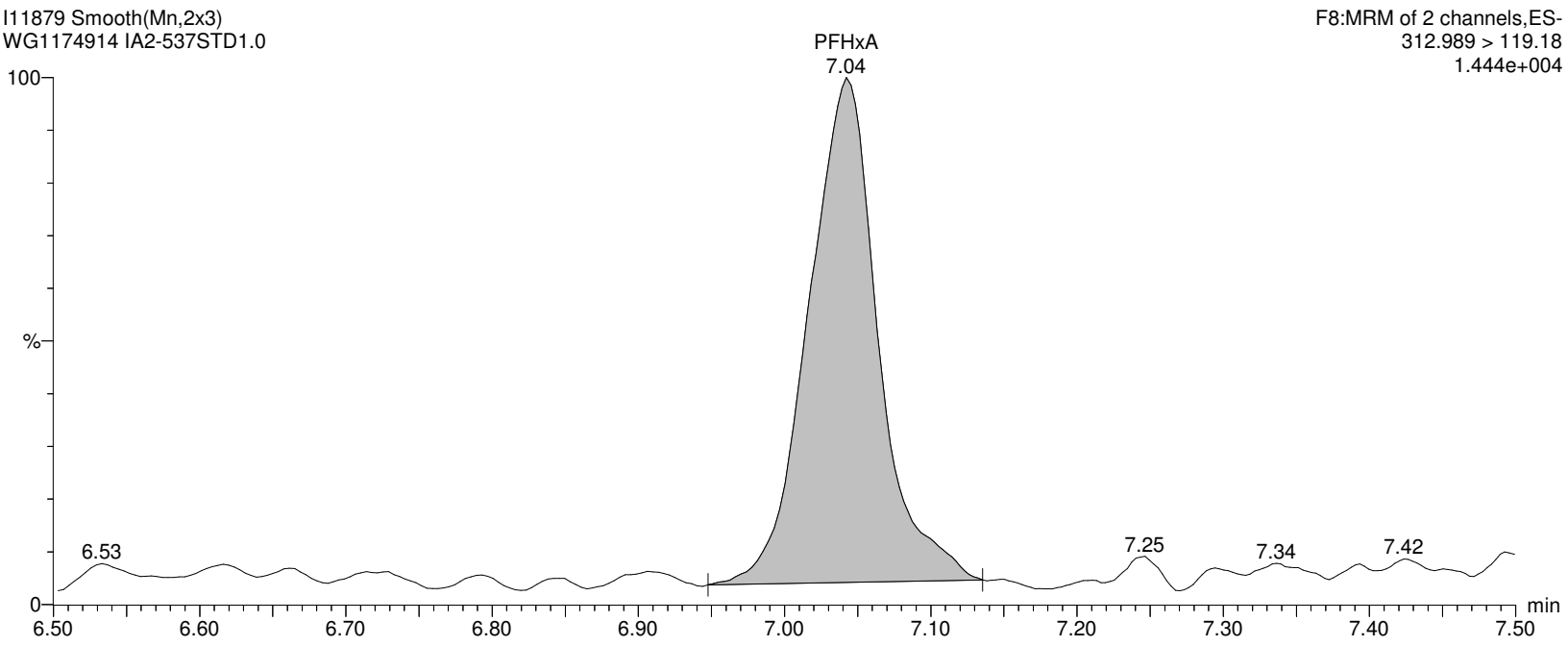
PFHxA





all concentration units in (ng/mL)

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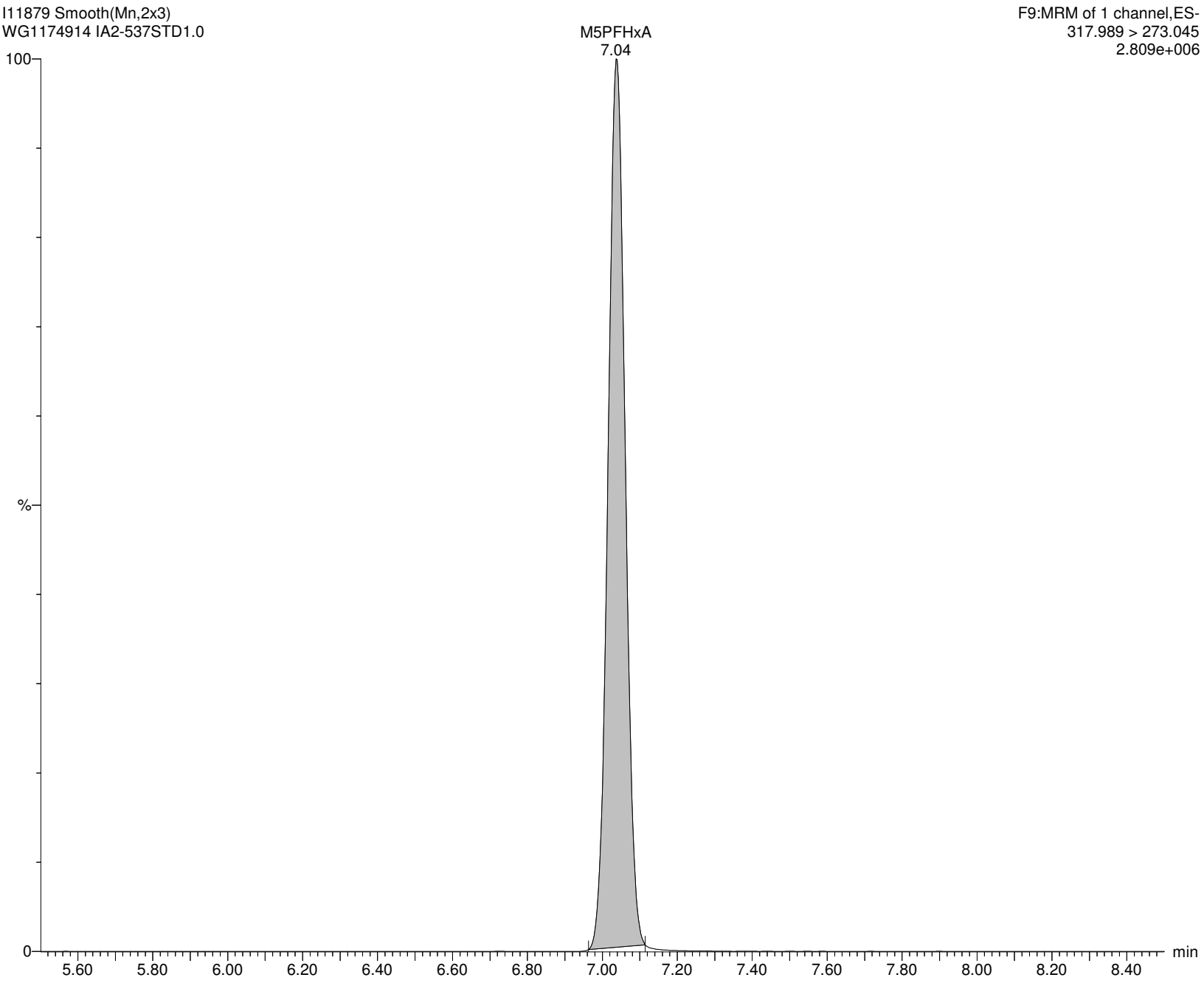

all concentration units in (ng/mL)

Alpha Analytical Inc.
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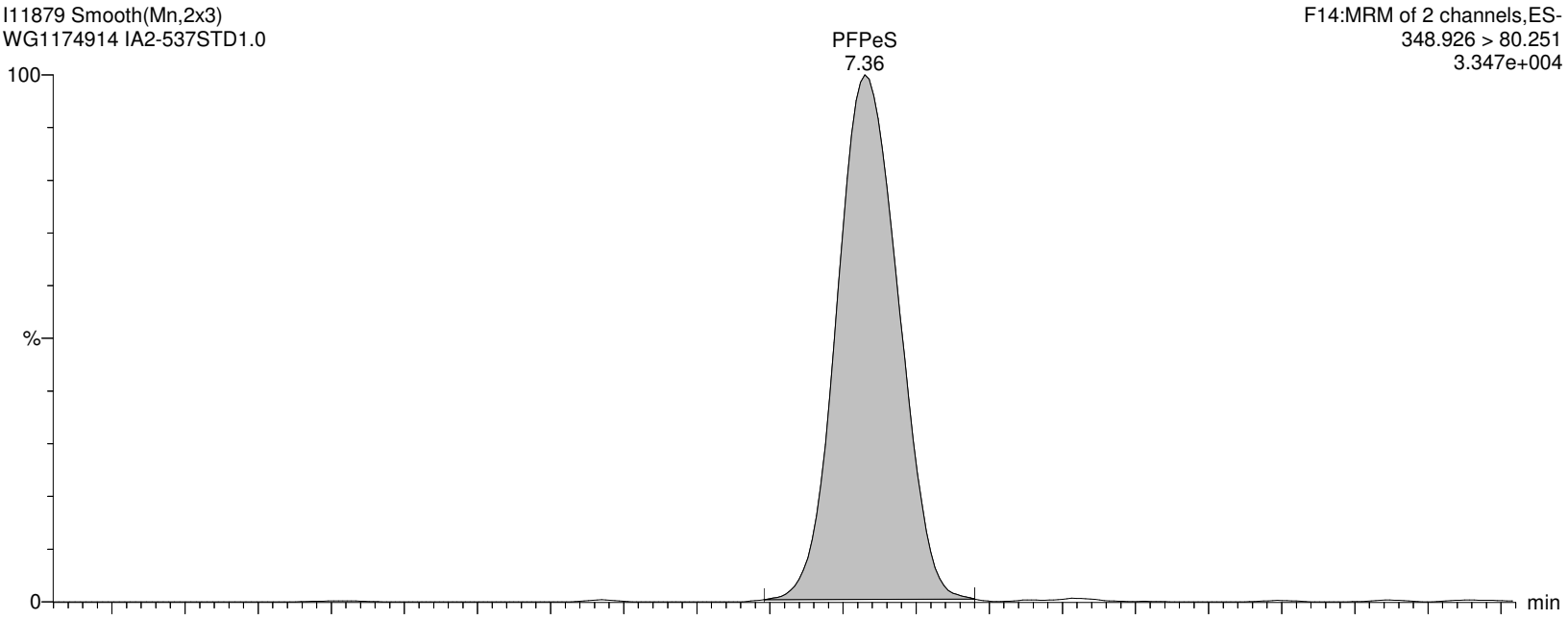

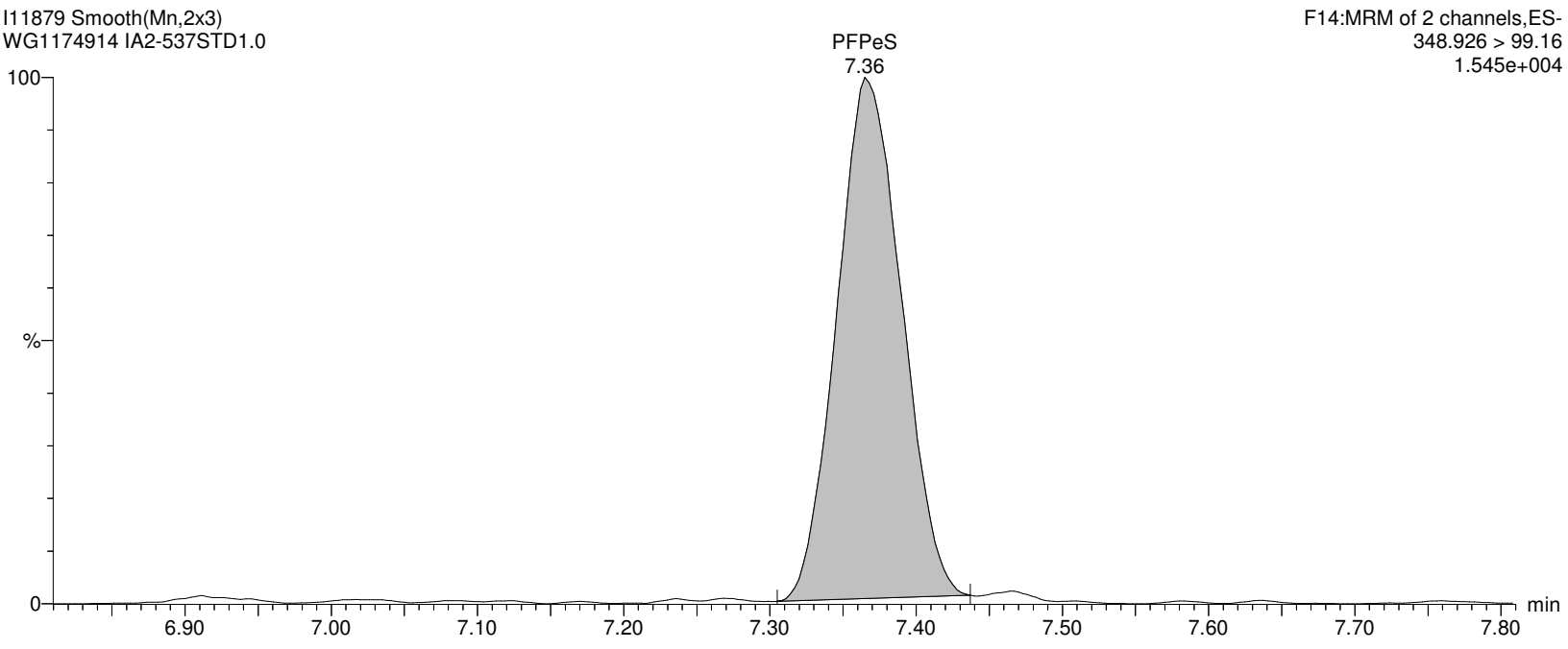

all concentration units in (ng/mL)

Alpha Analytical Inc.
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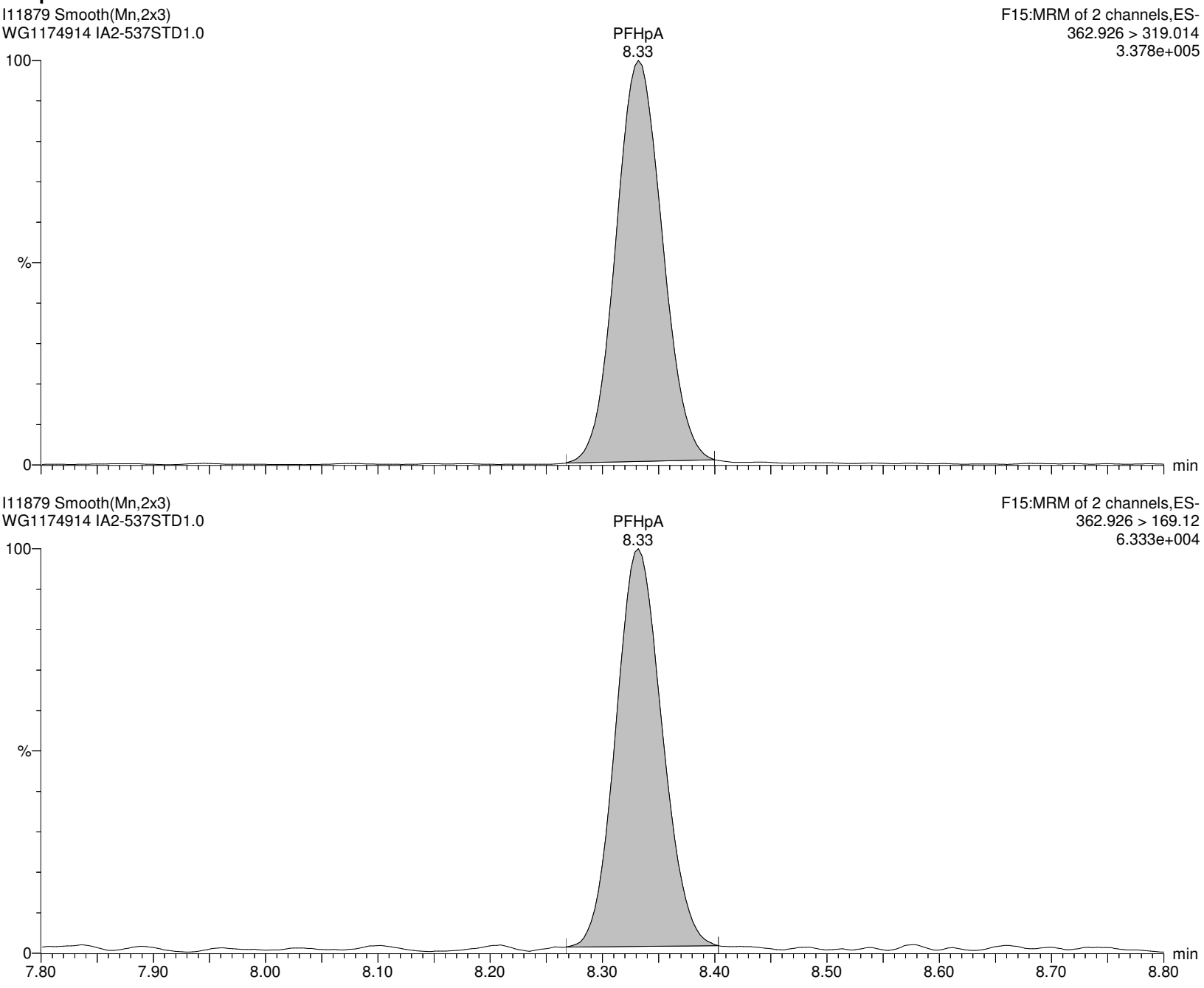

all concentration units in (ng/mL)

Alpha Analytical Inc.
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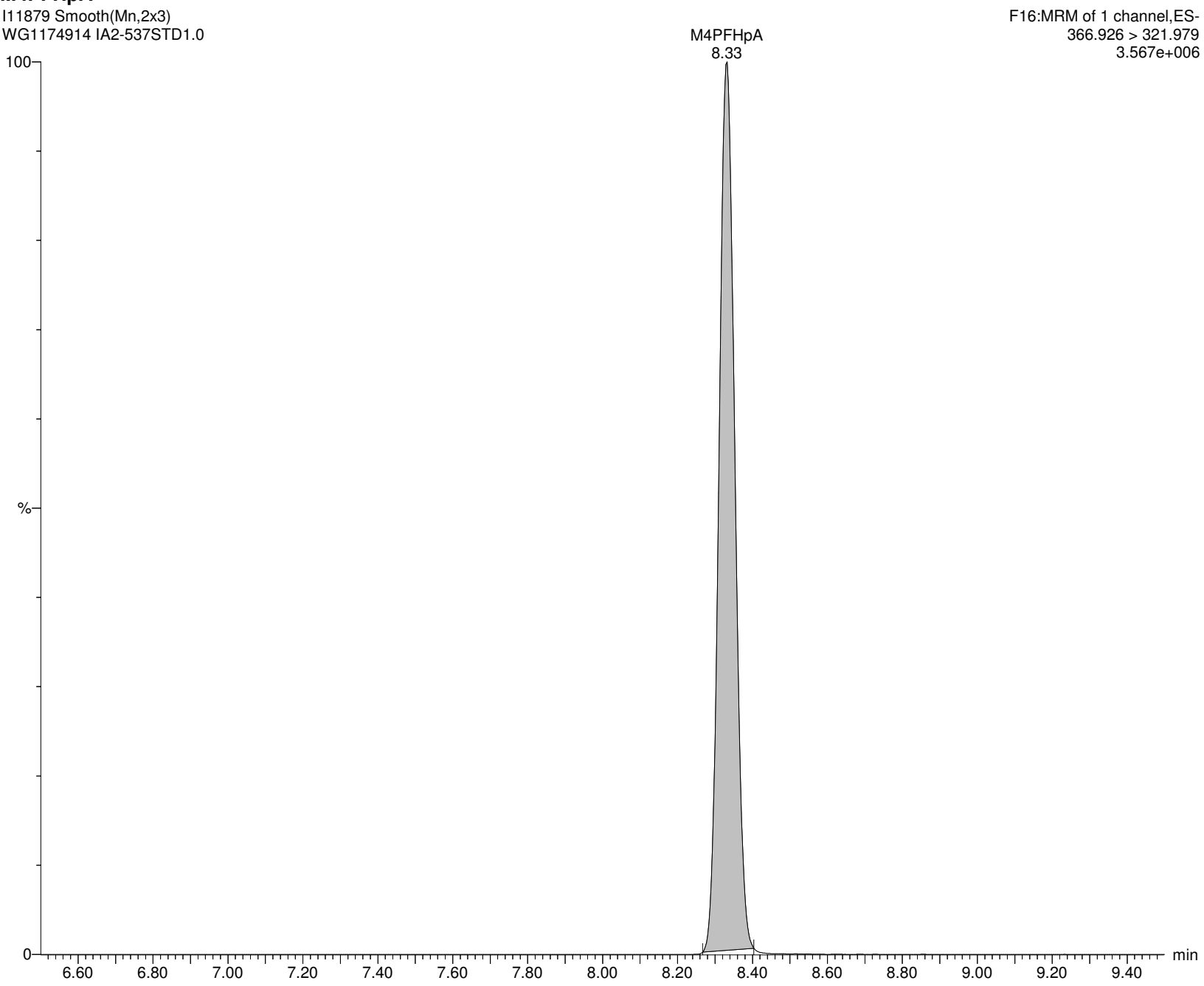

all concentration units in (ng/mL)

Alpha Analytical Inc.
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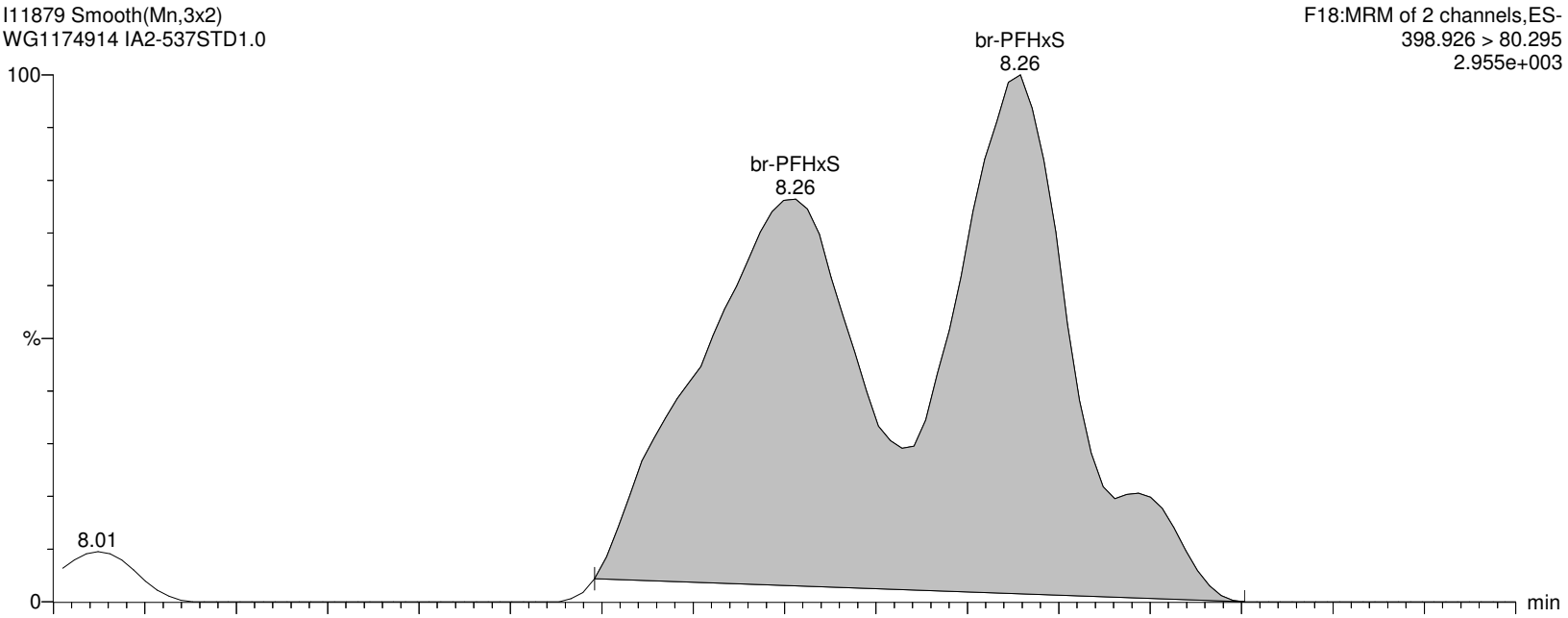

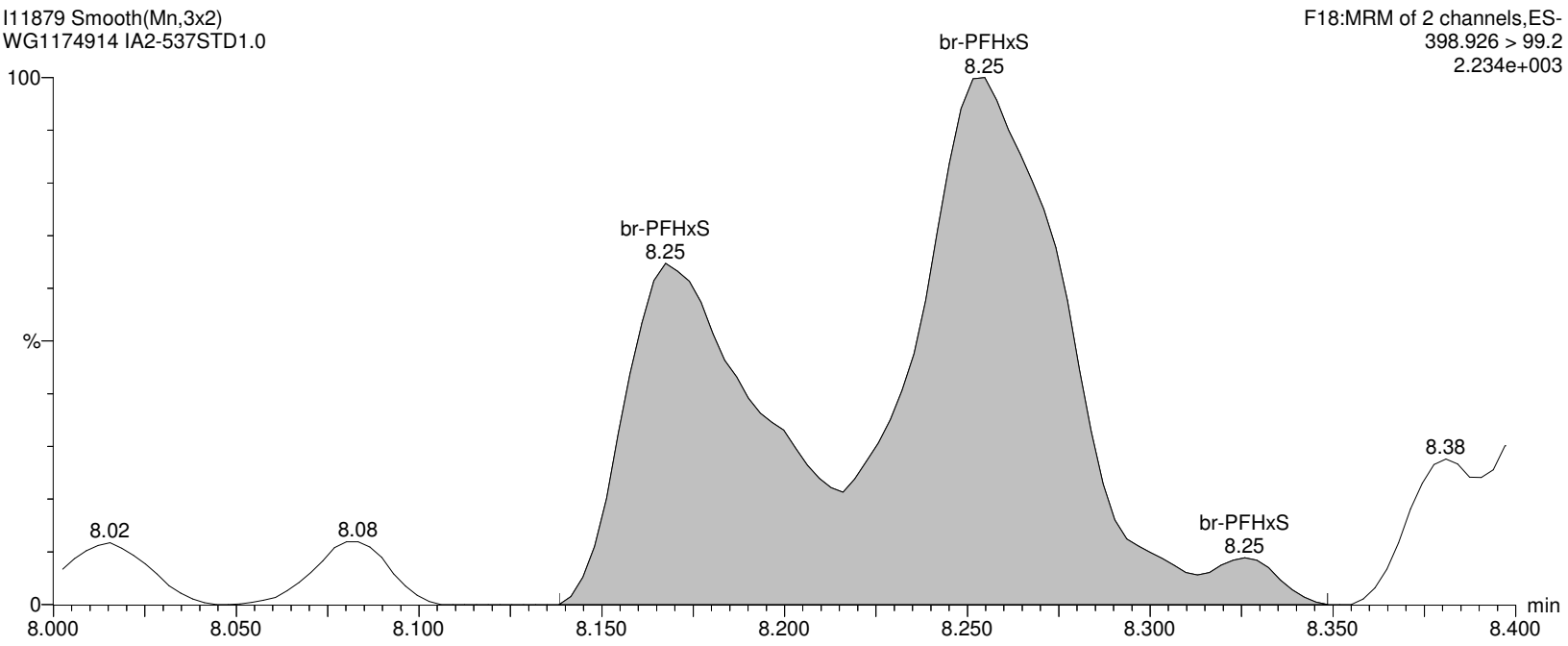

all concentration units in (ng/mL)

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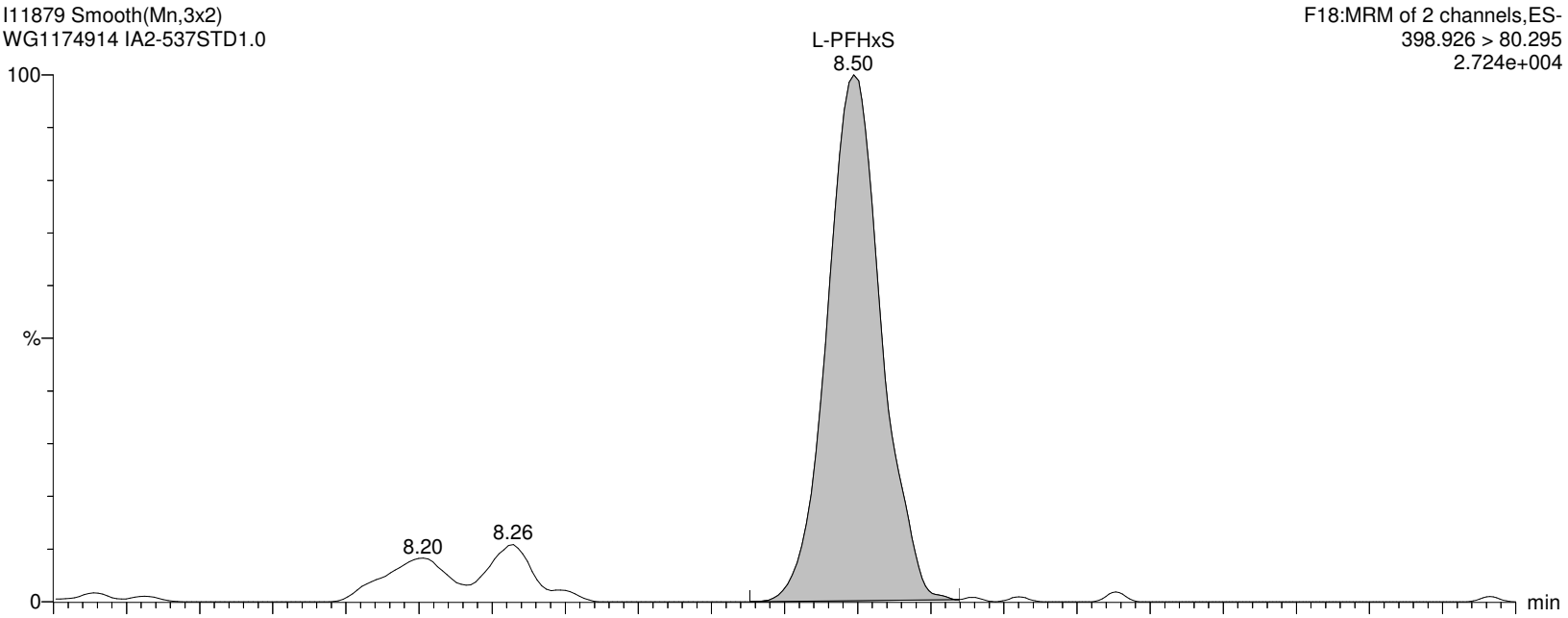
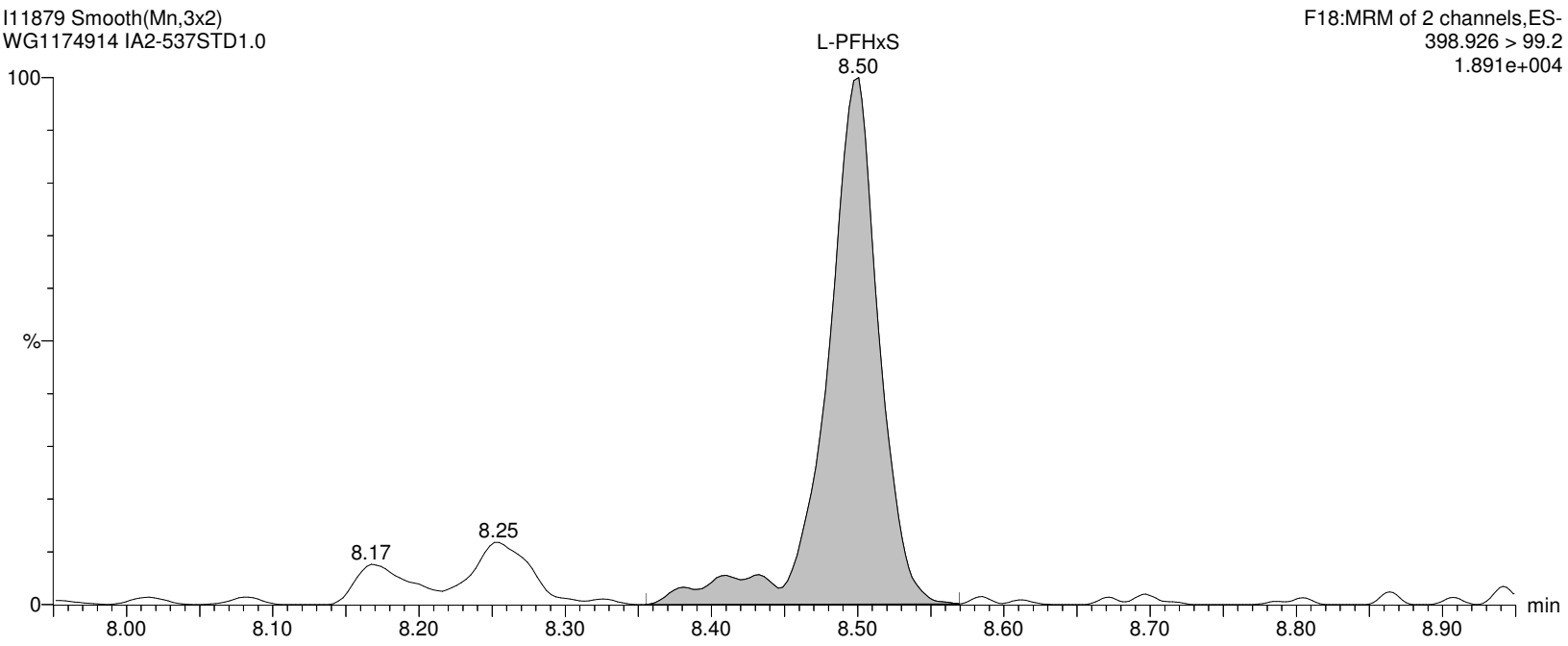
L-PFHxS





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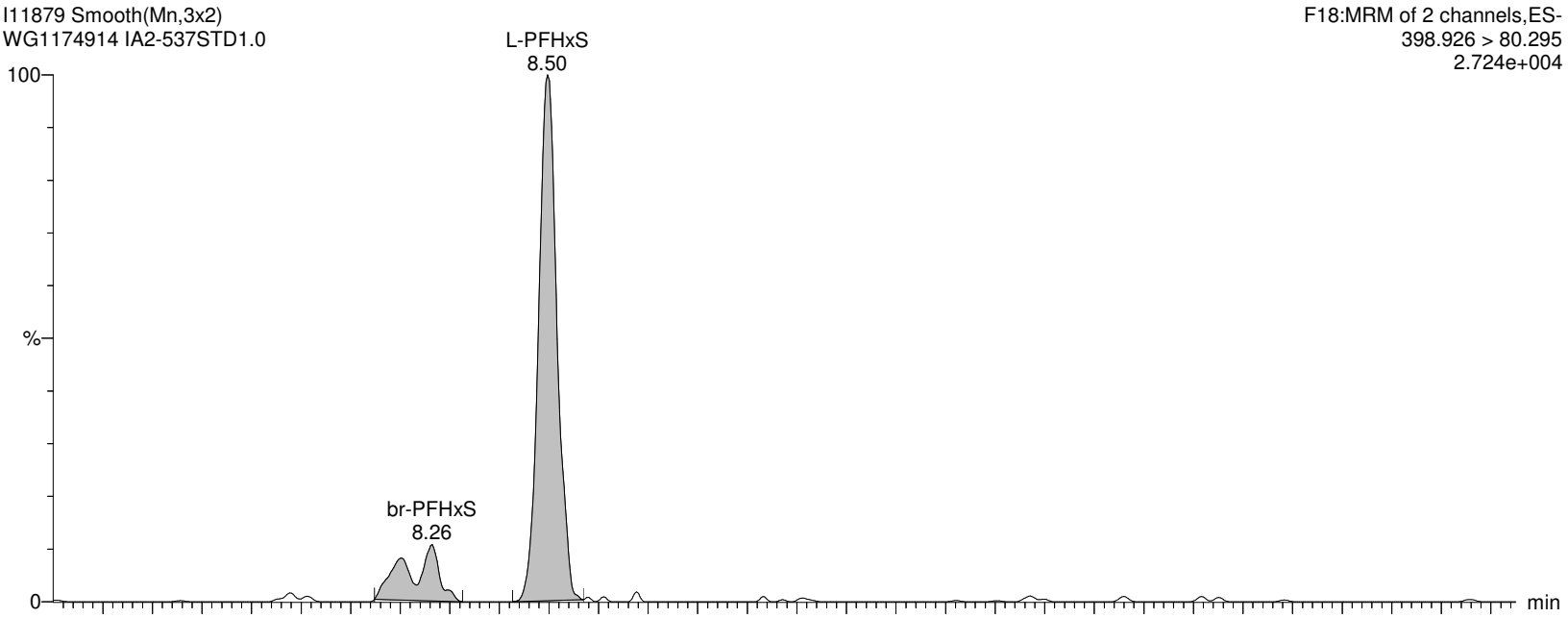
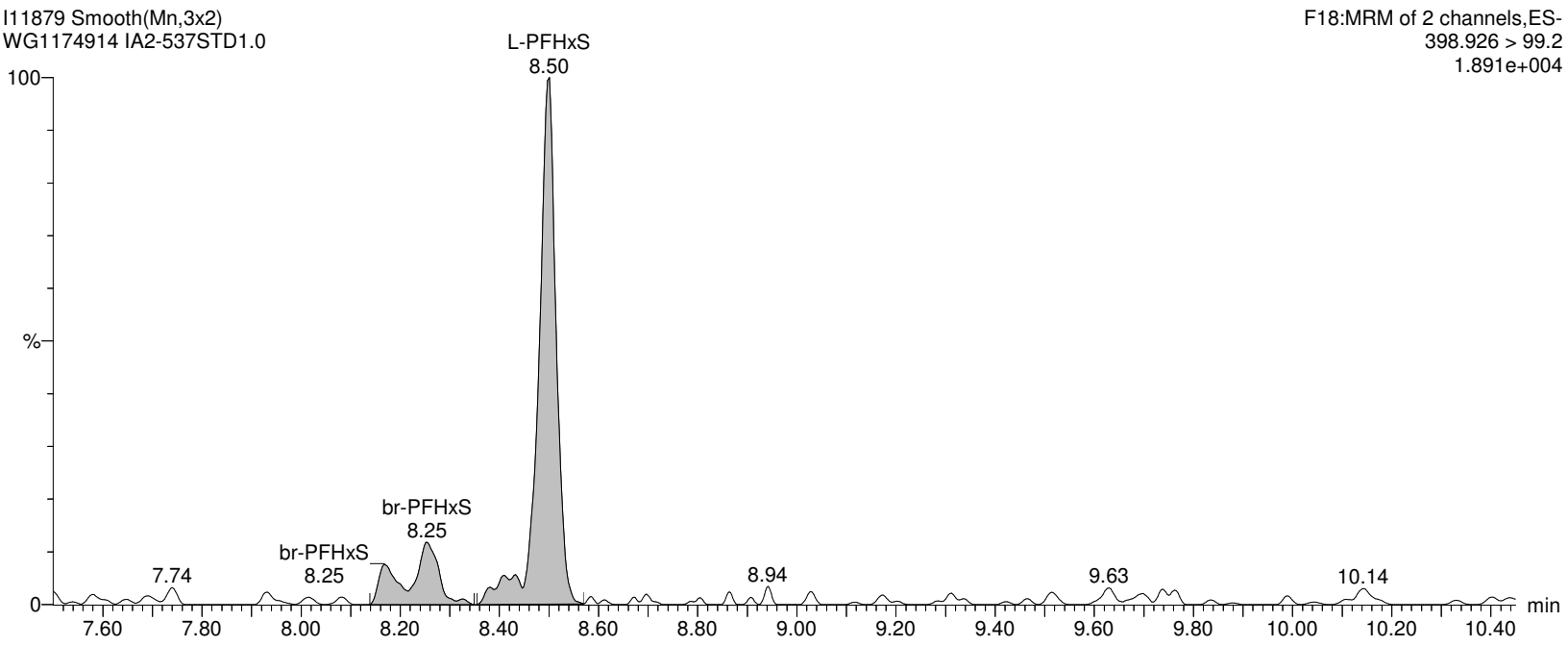
PFHxS





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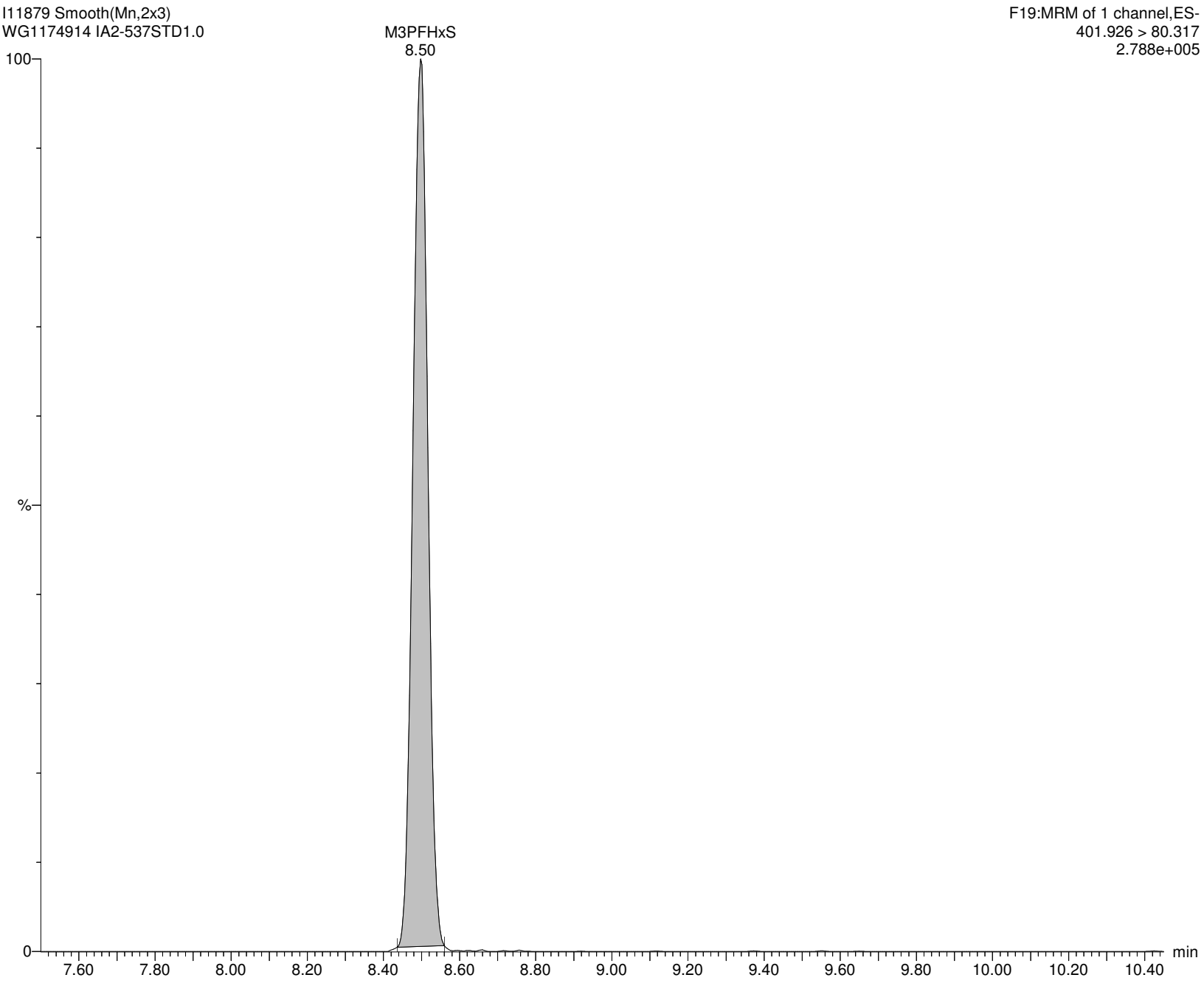
M3PFHxS



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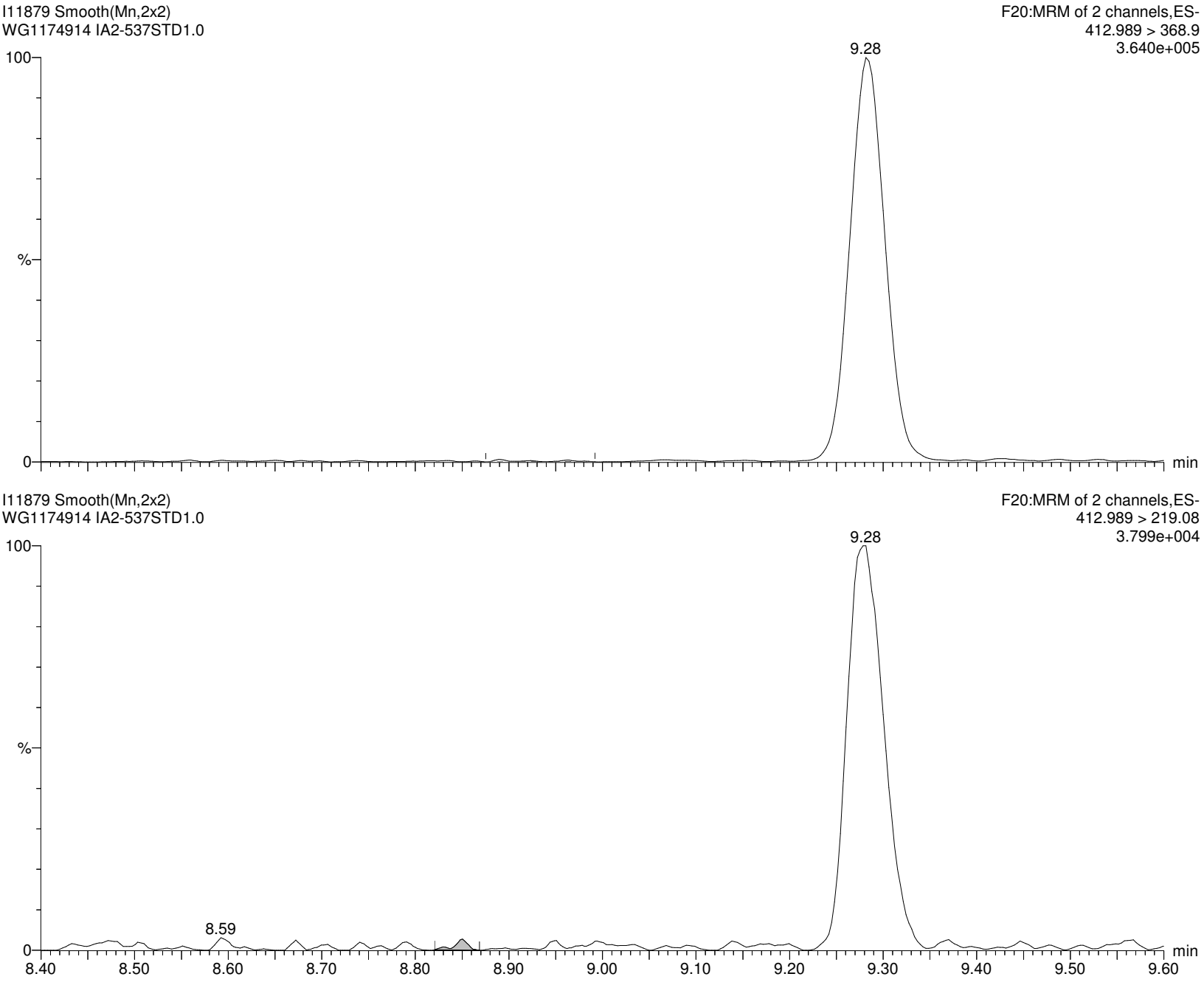

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Time: 17:18:53
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User: LCMS01:AJ
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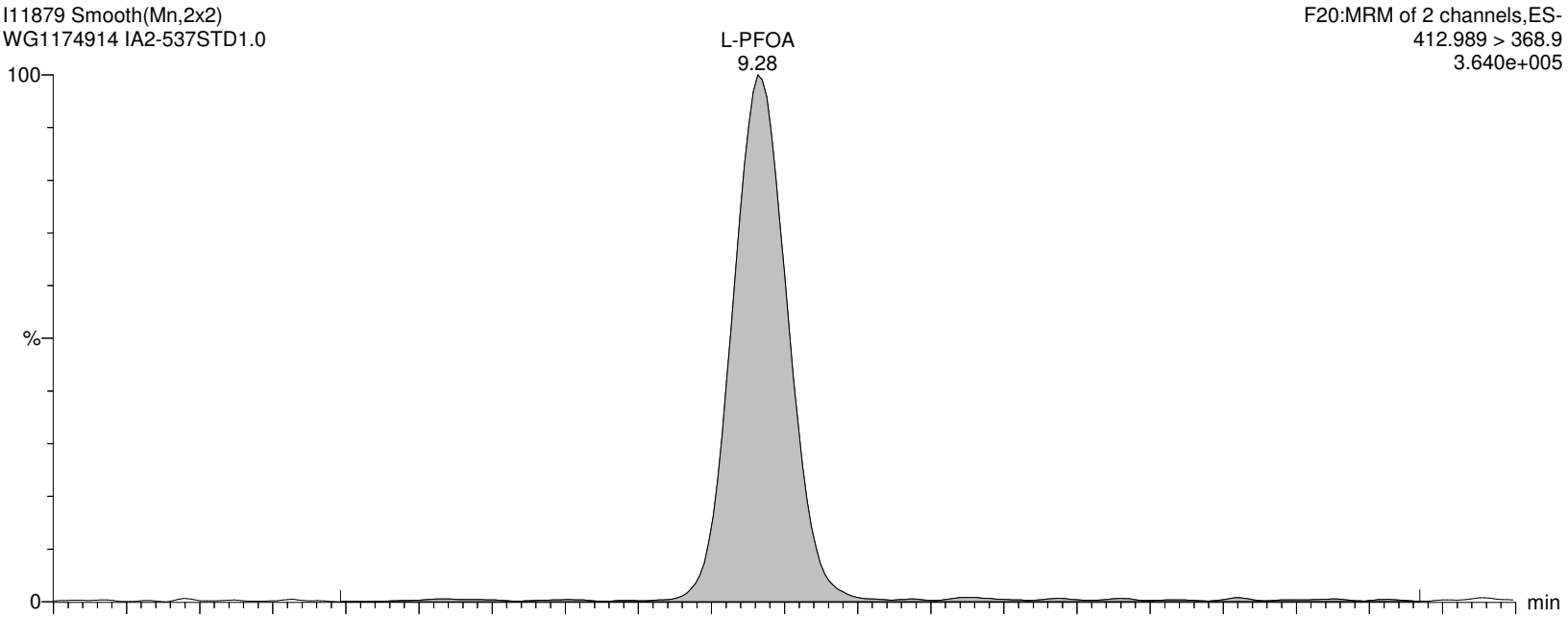

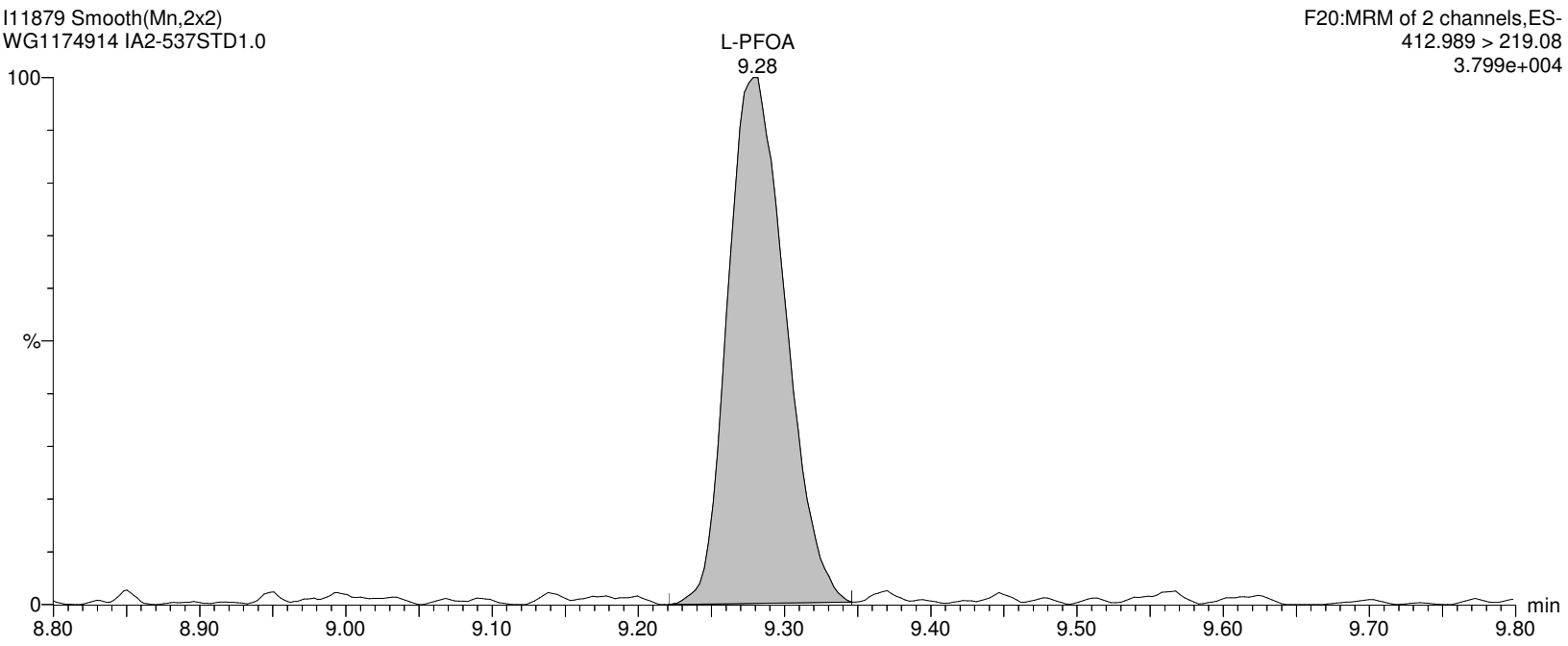

all concentration units in (ng/mL)

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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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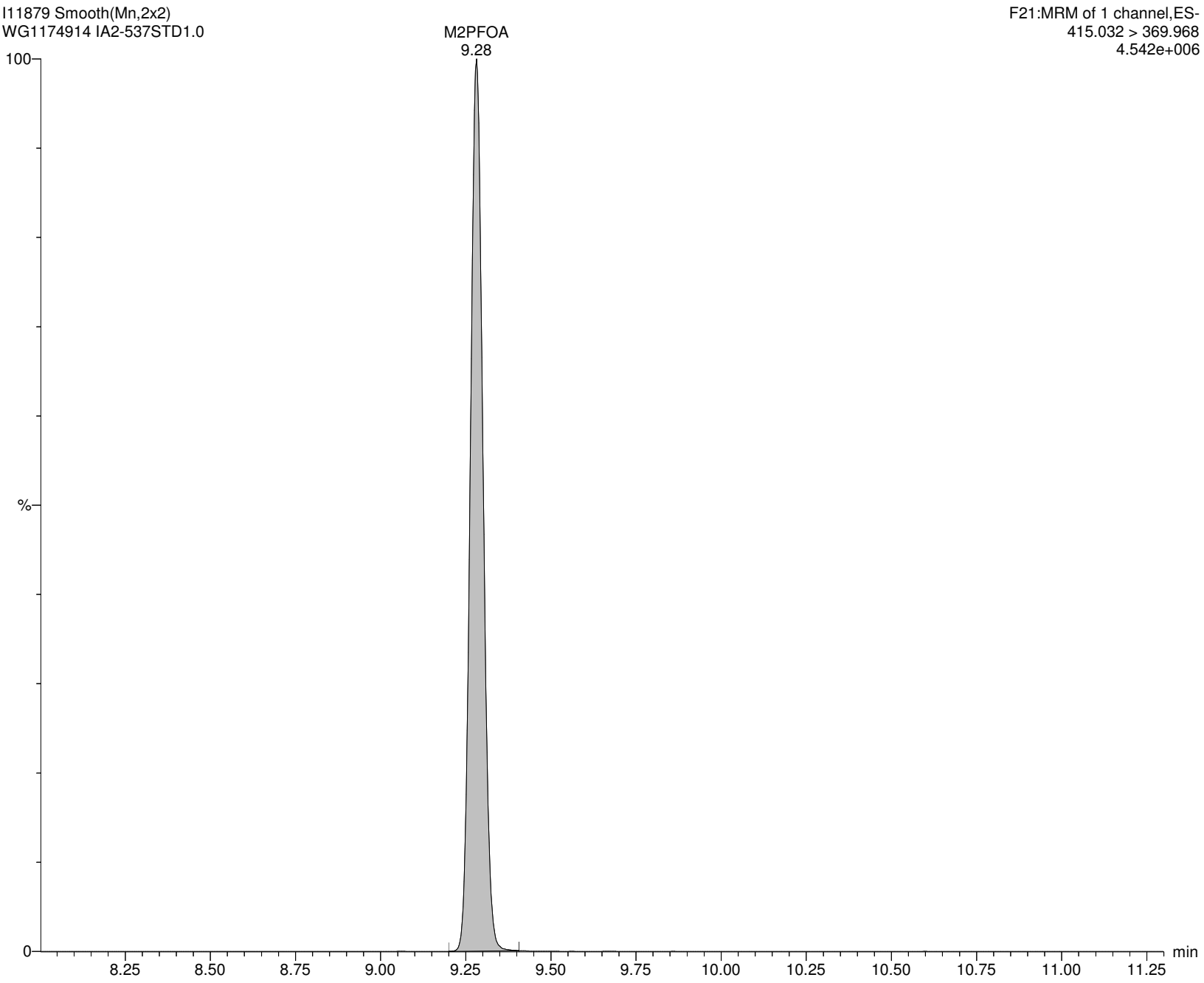

all concentration units in (ng/mL)

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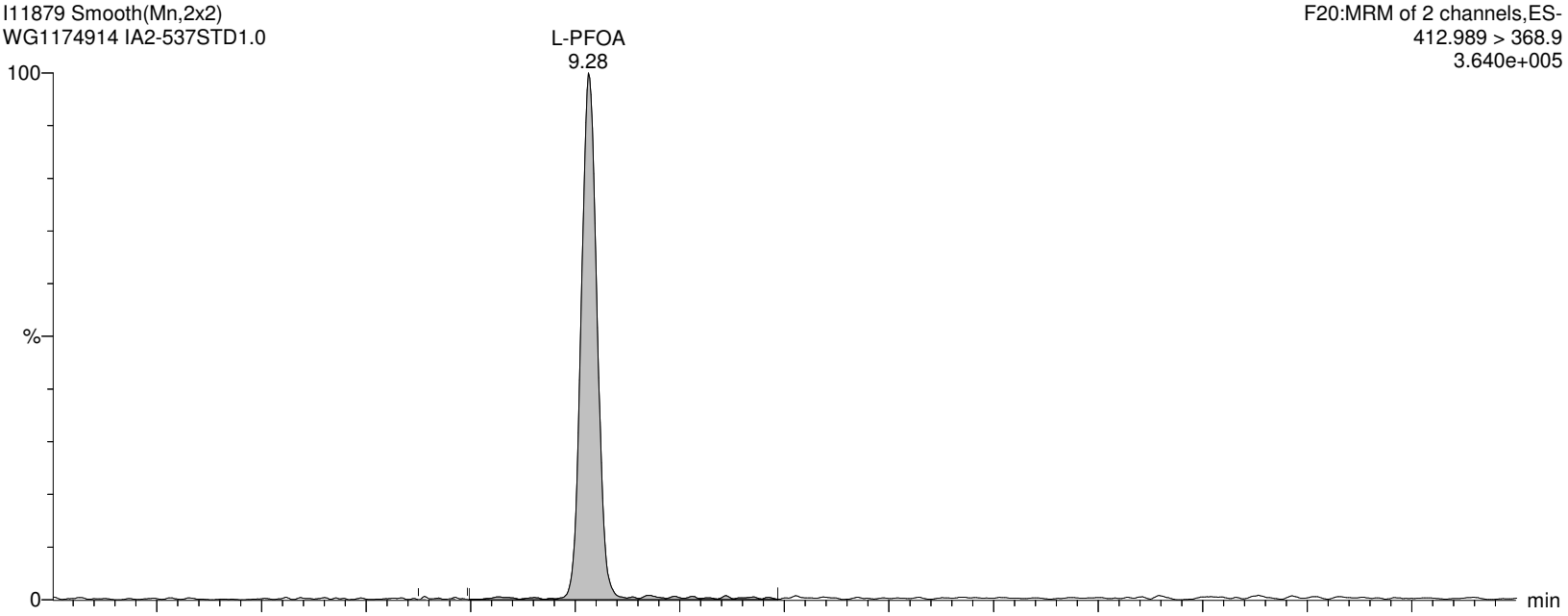

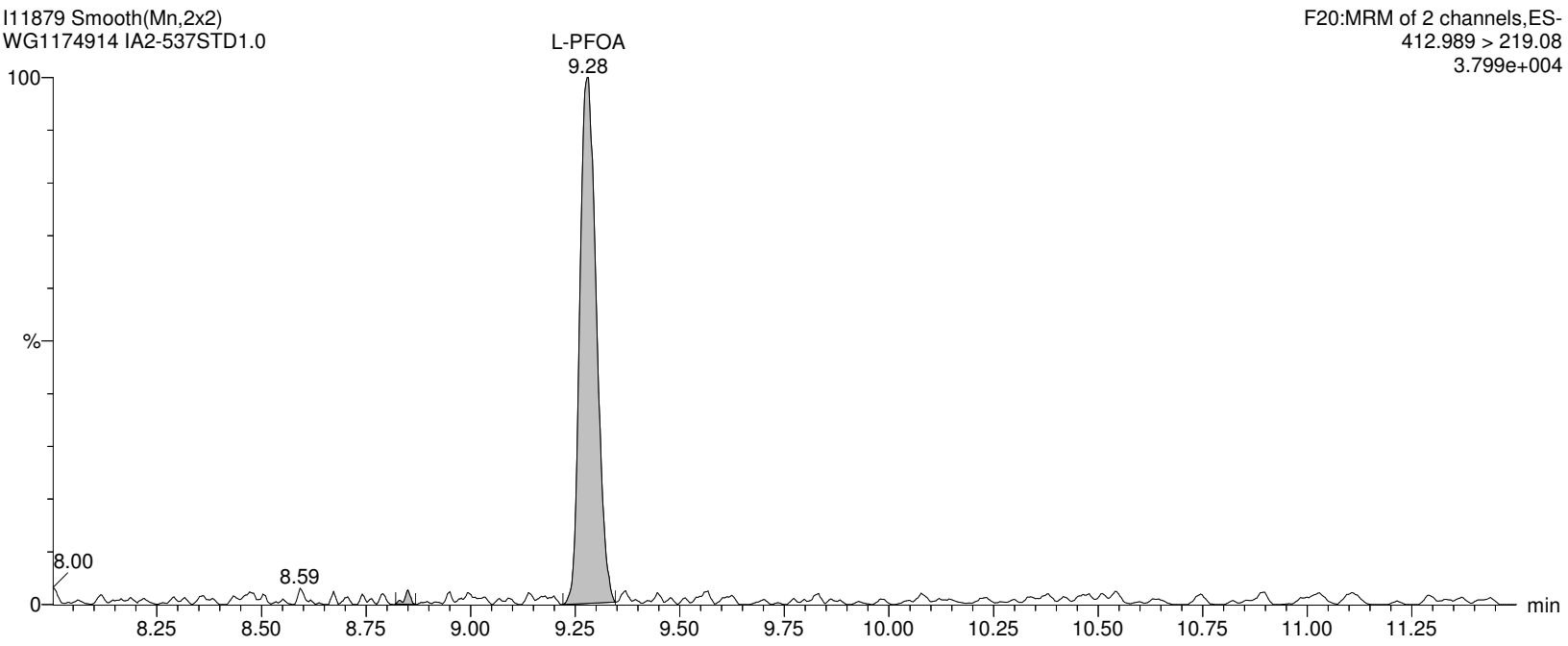

all concentration units in (ng/mL)

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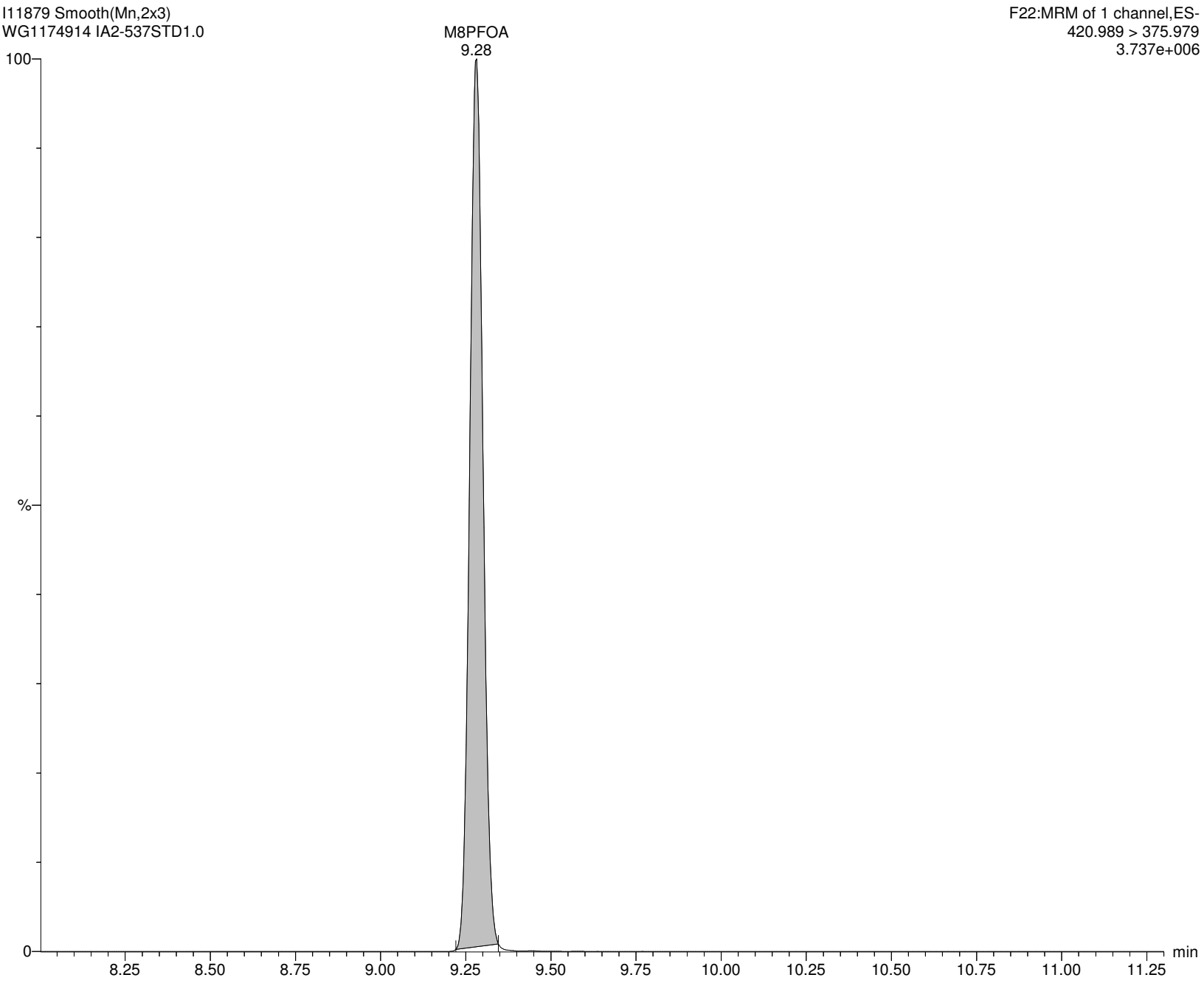

all concentration units in (ng/mL)

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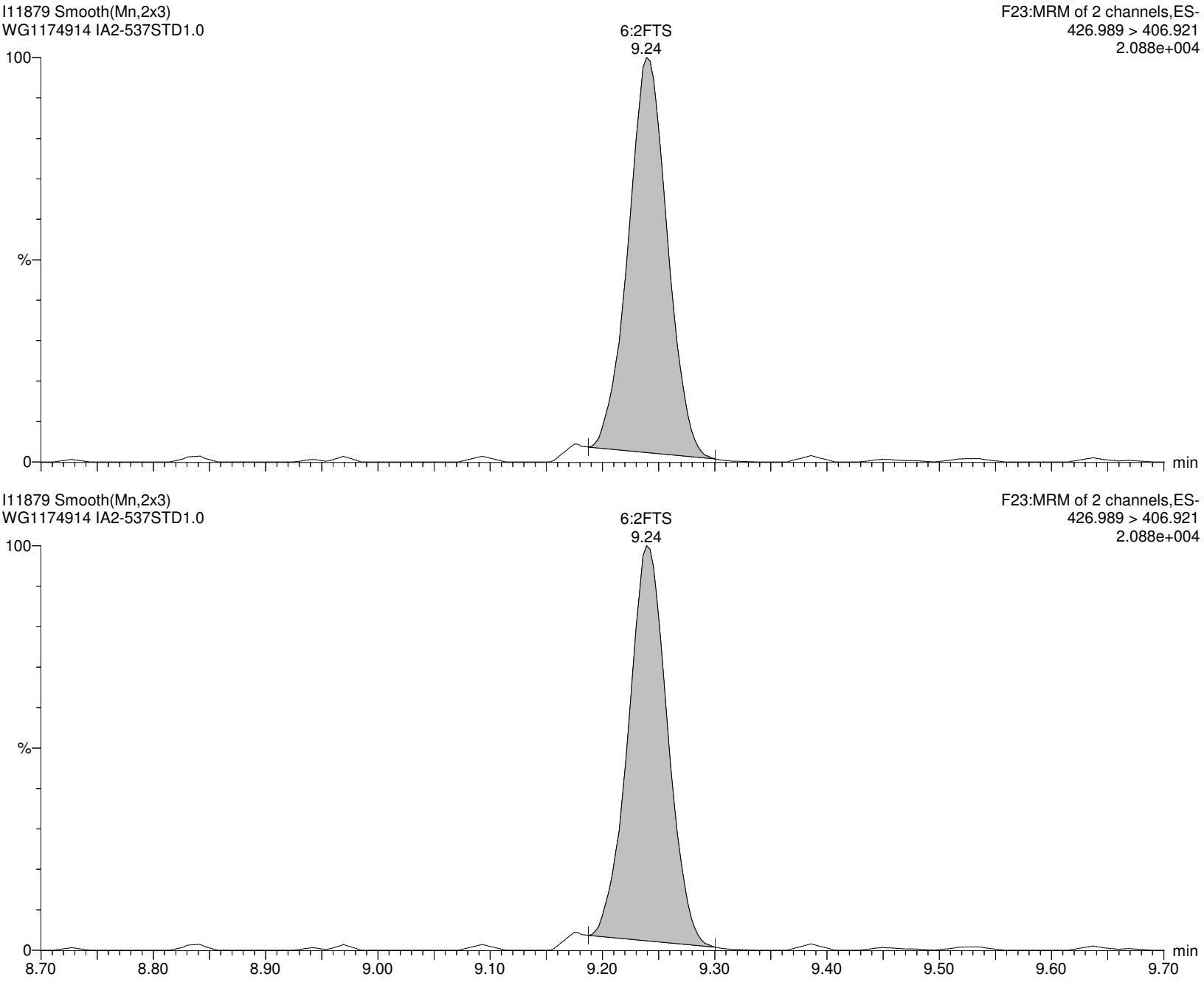

all concentration units in (ng/mL)

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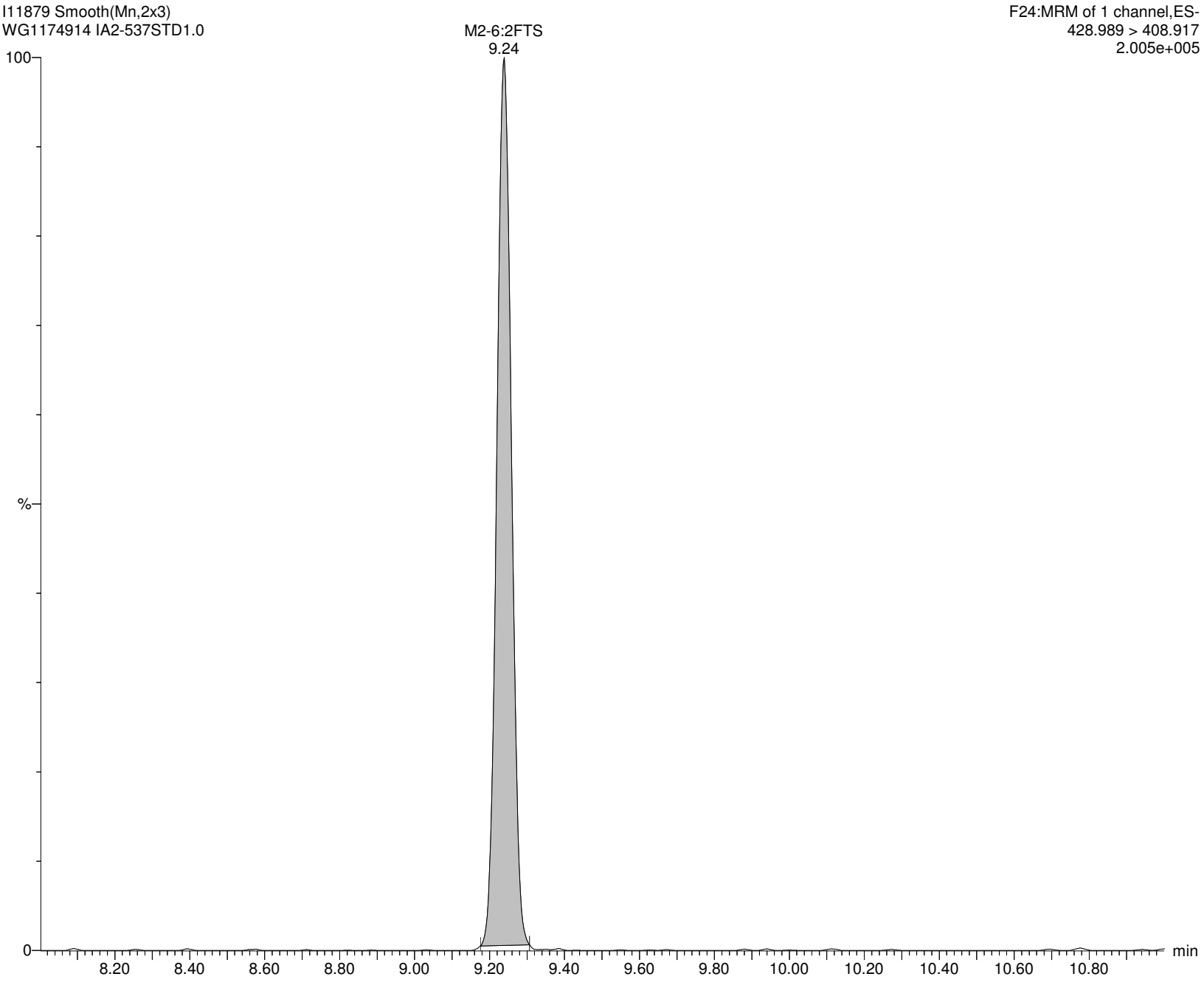

all concentration units in (ng/mL)

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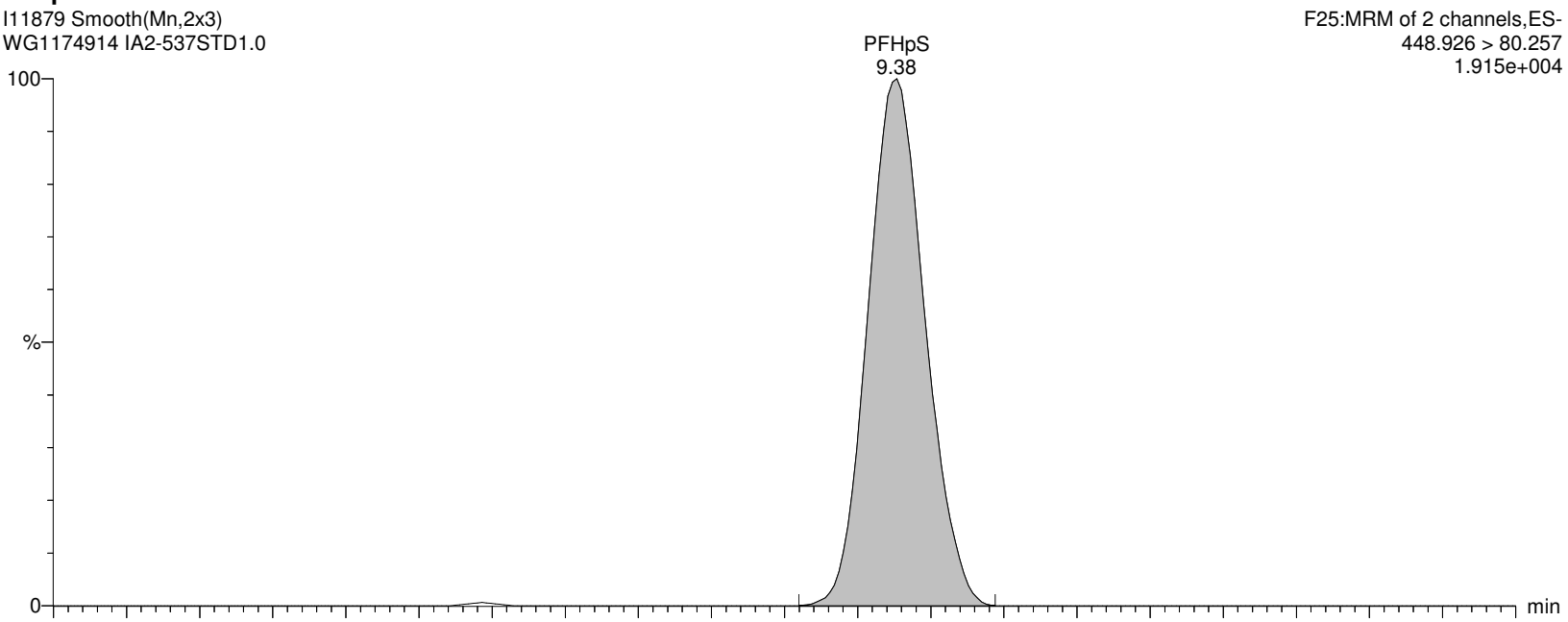

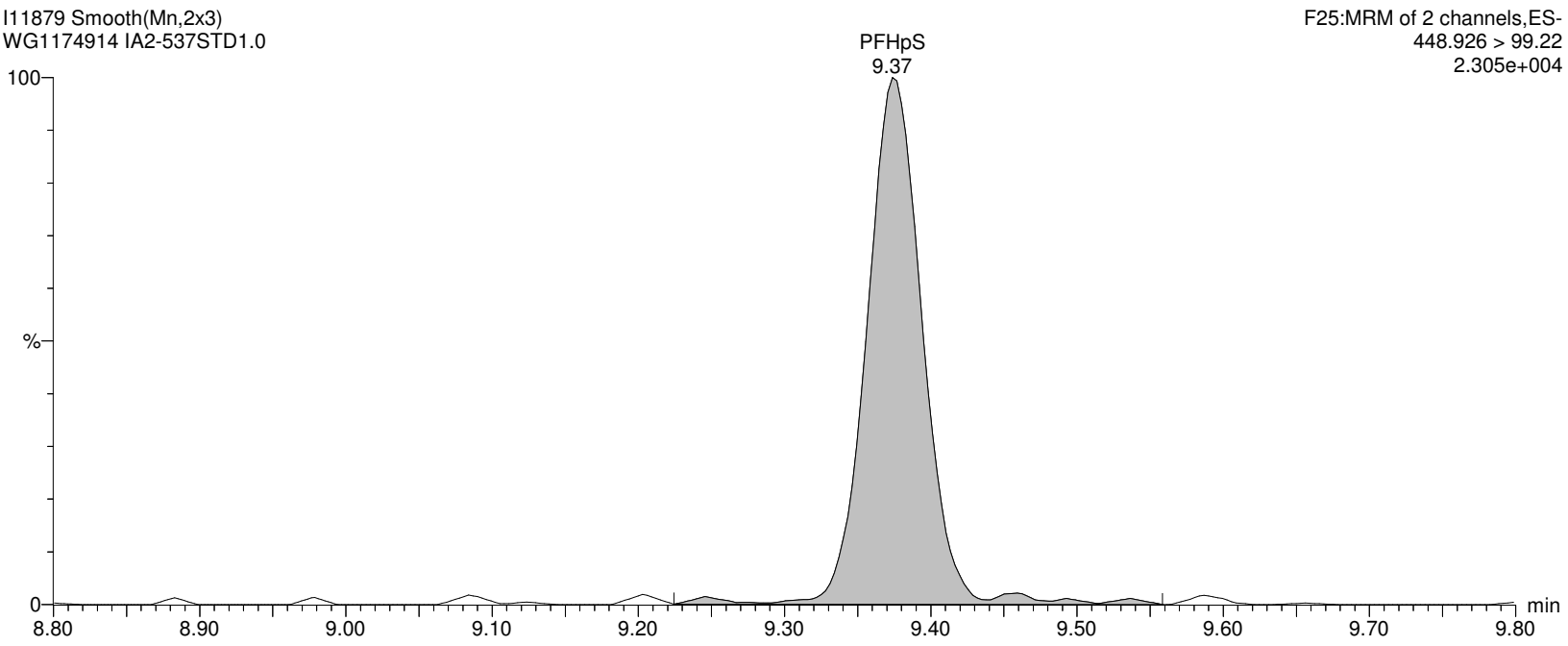

all concentration units in (ng/mL)

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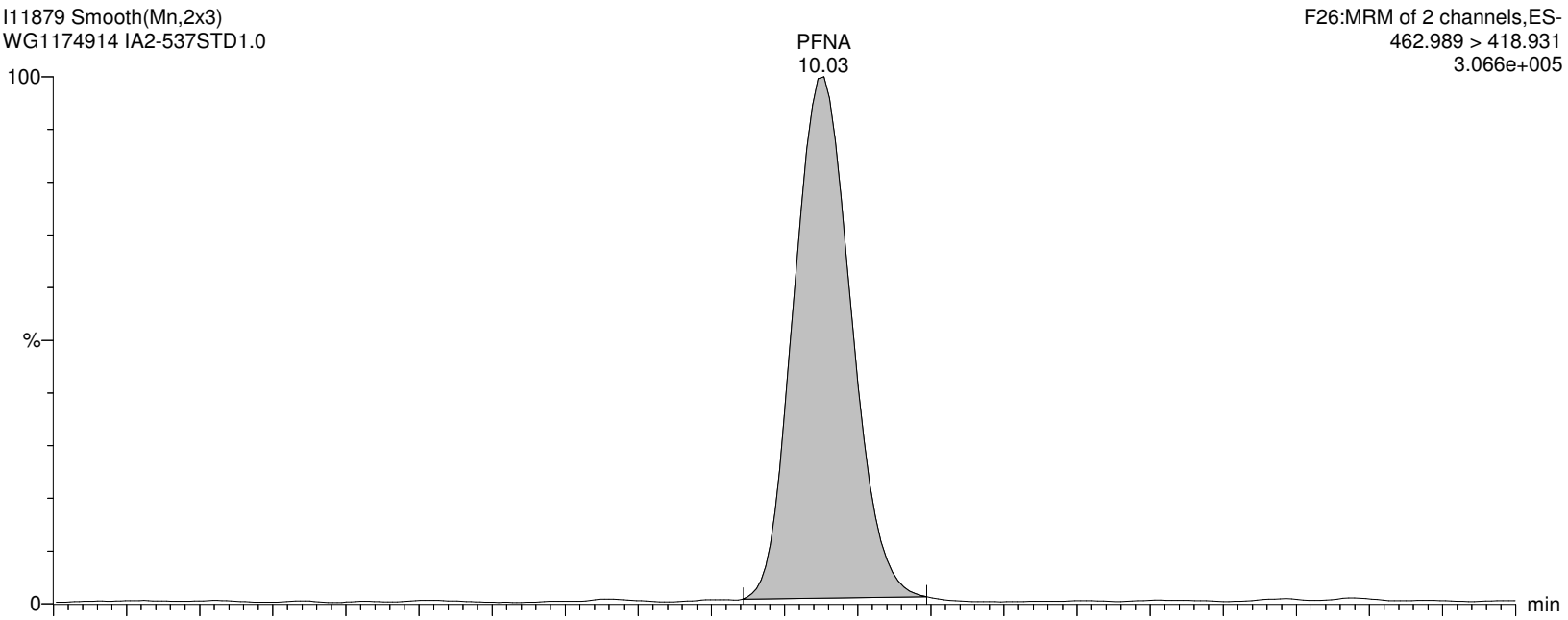

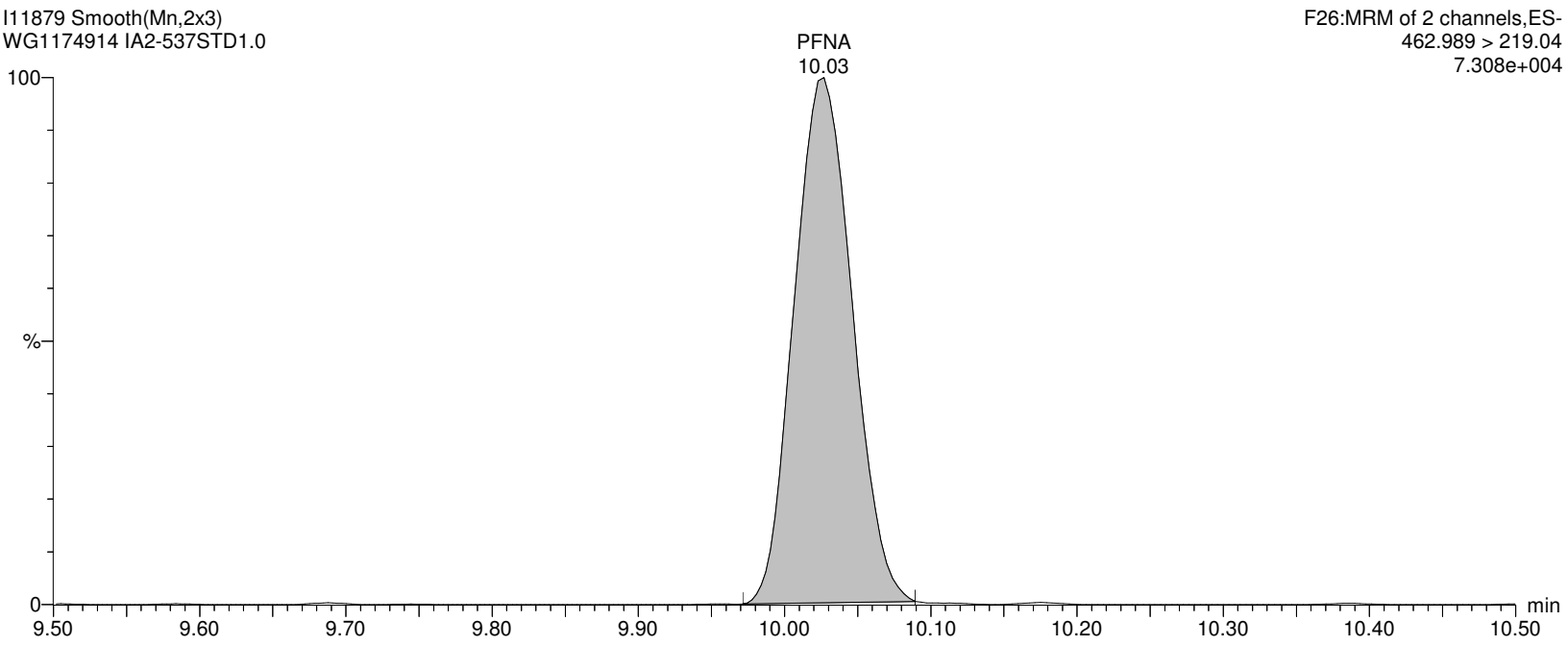

all concentration units in (ng/mL)

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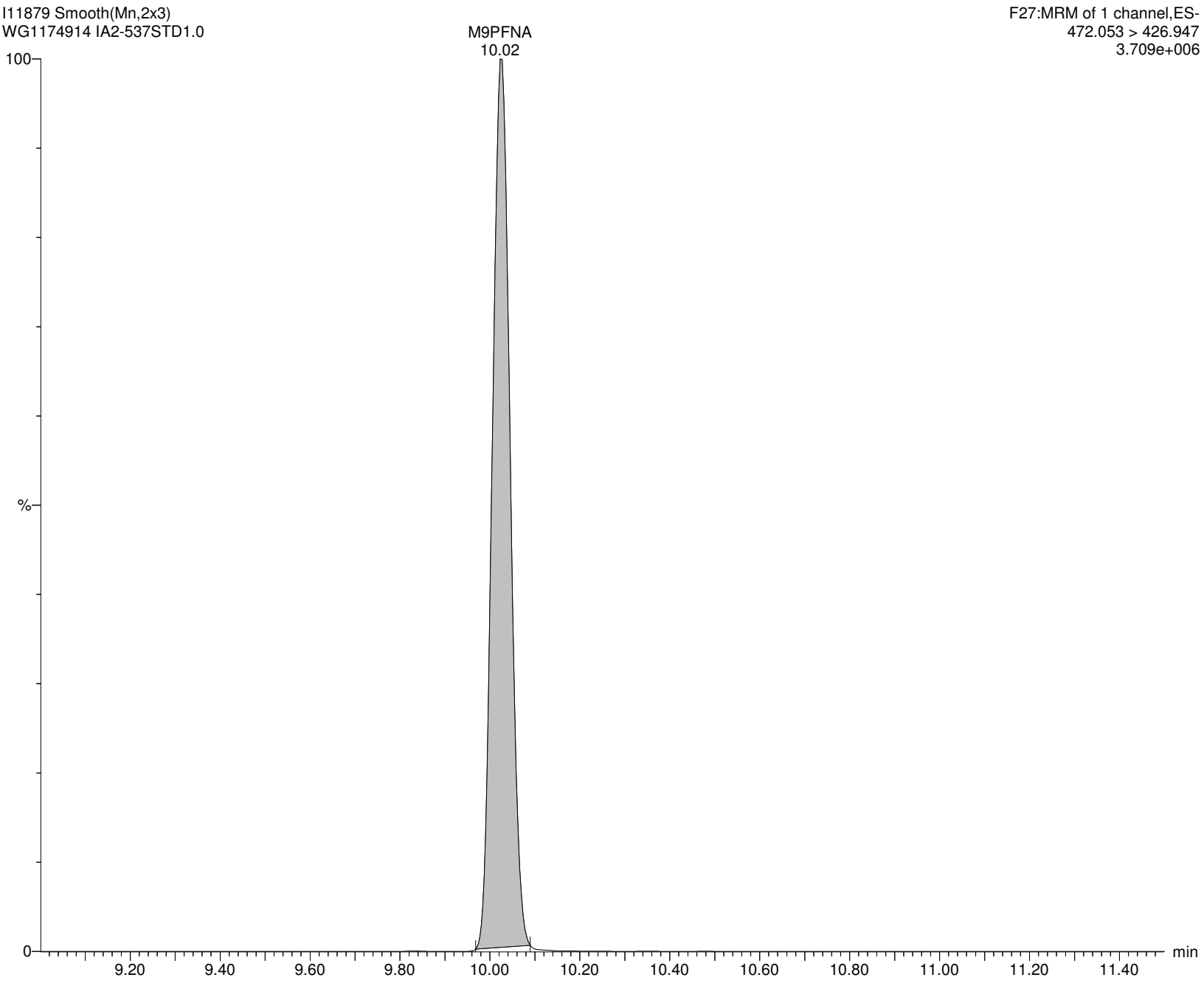

all concentration units in (ng/mL)

Alpha Analytical Inc.
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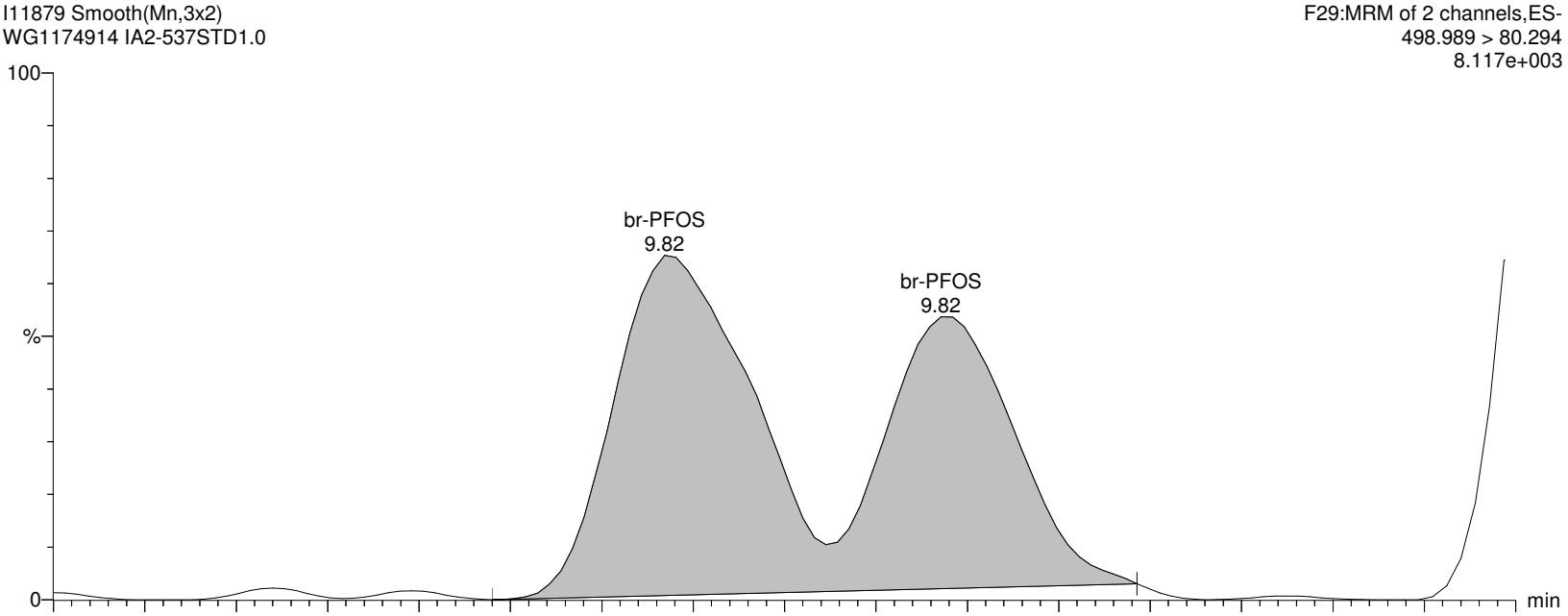

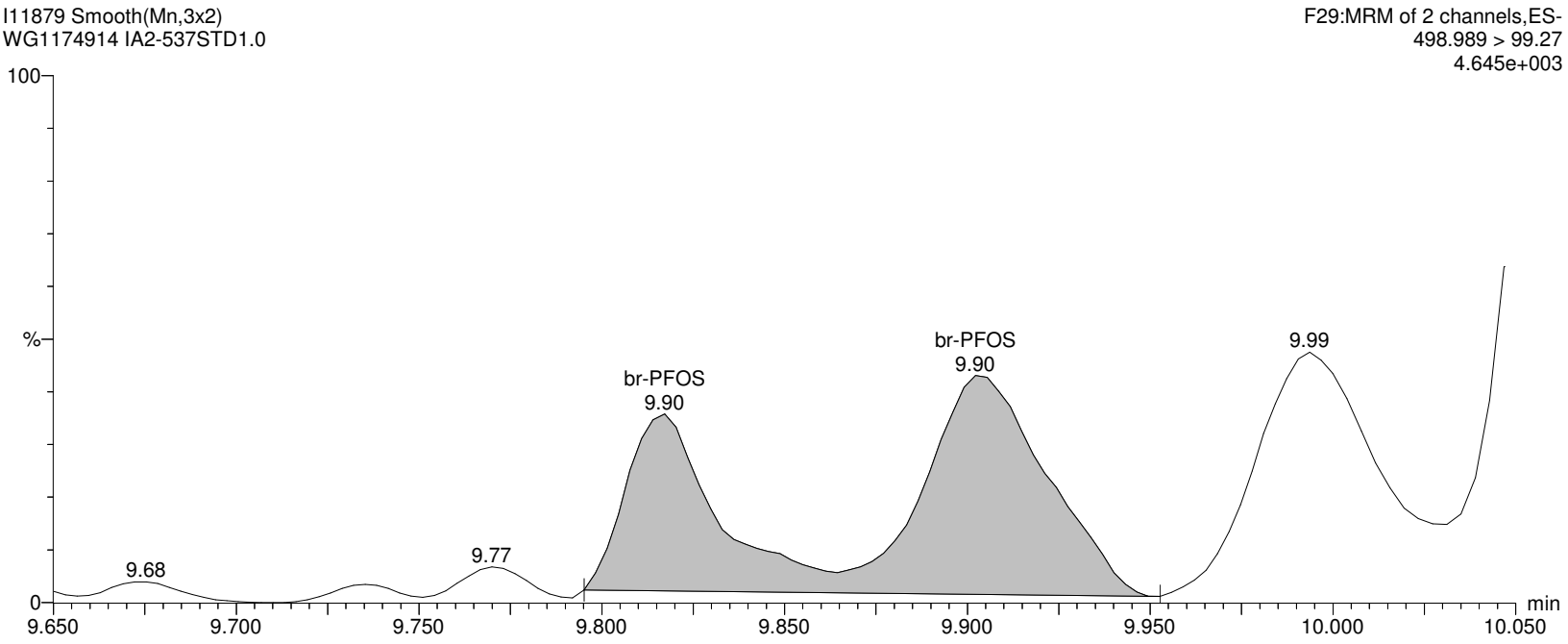

all concentration units in (ng/mL)

Alpha Analytical Inc.
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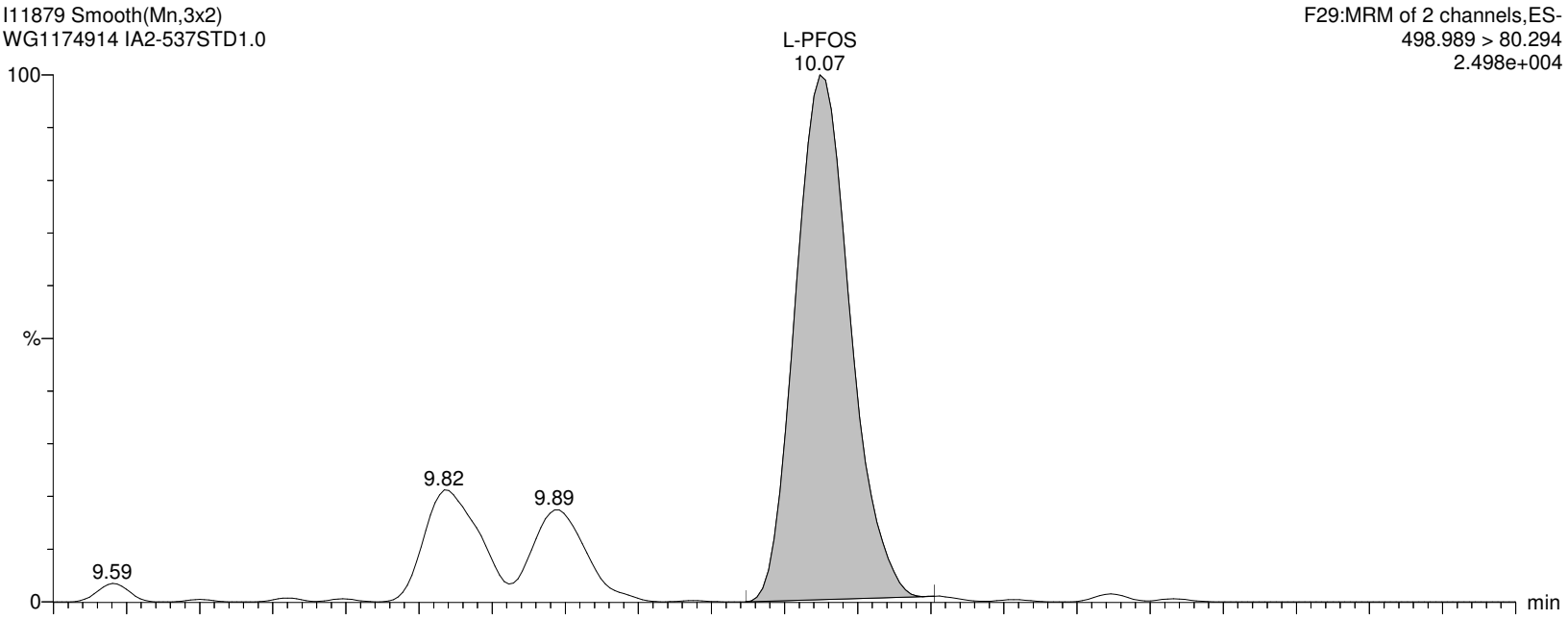

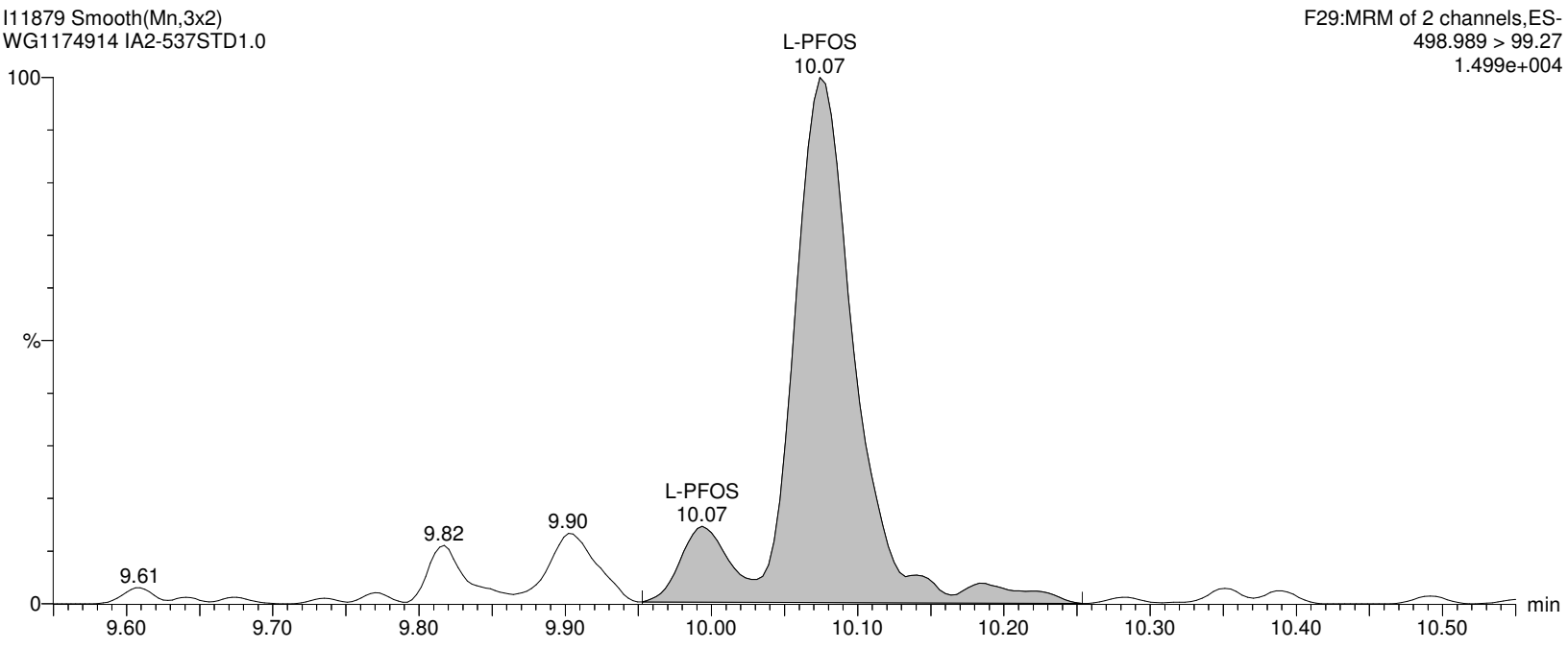

all concentration units in (ng/mL)

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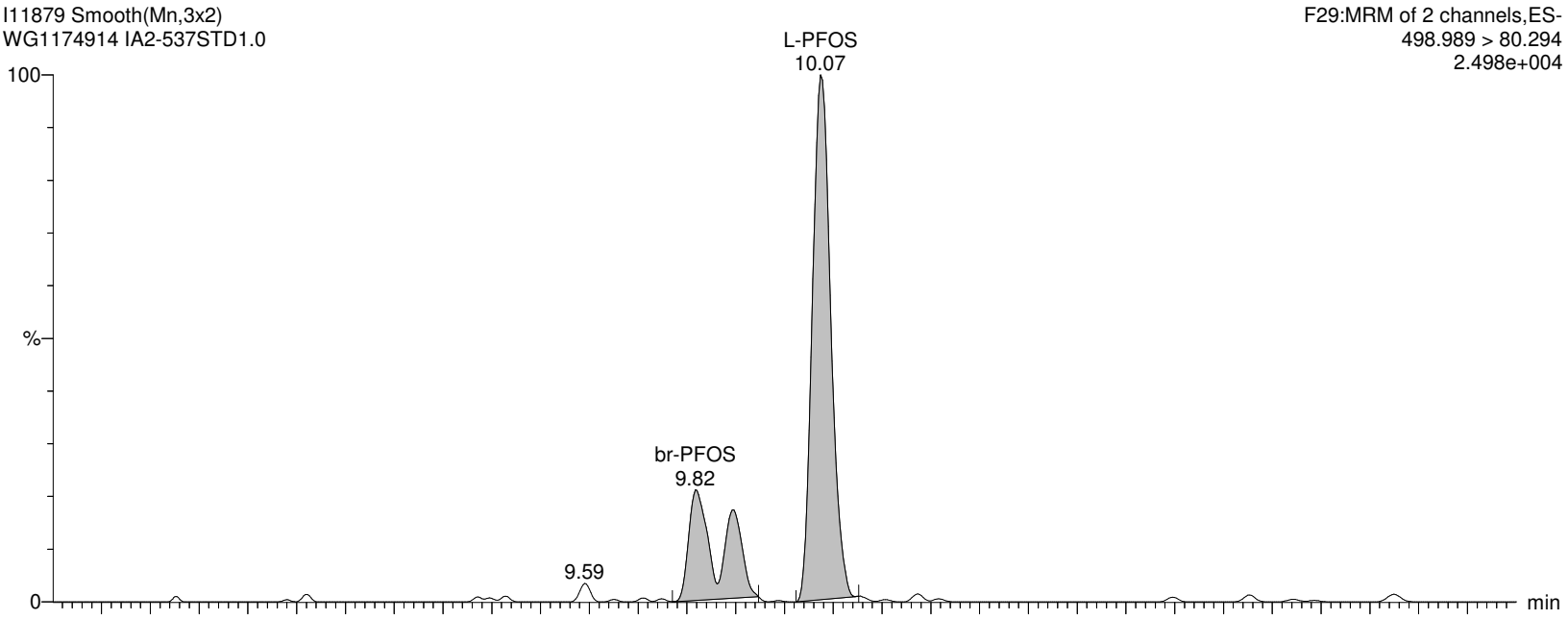

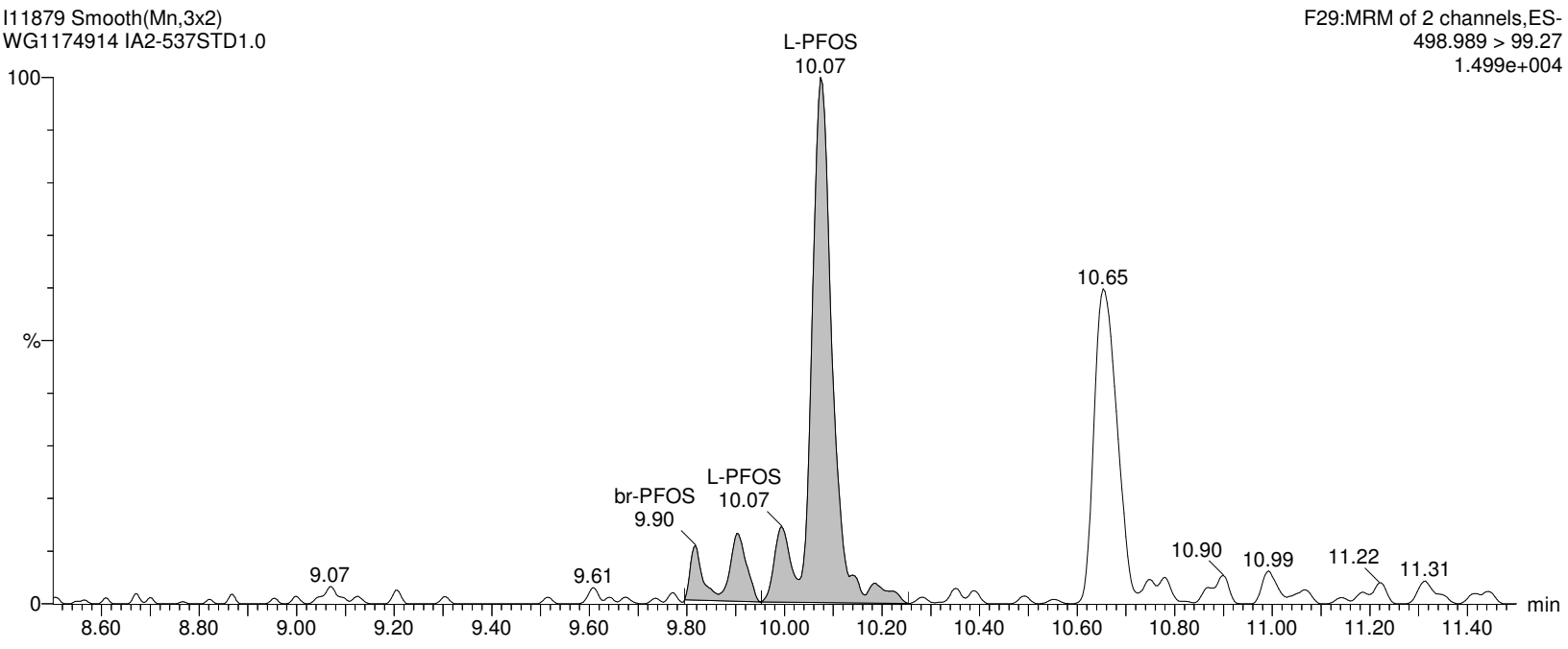

all concentration units in (ng/mL)

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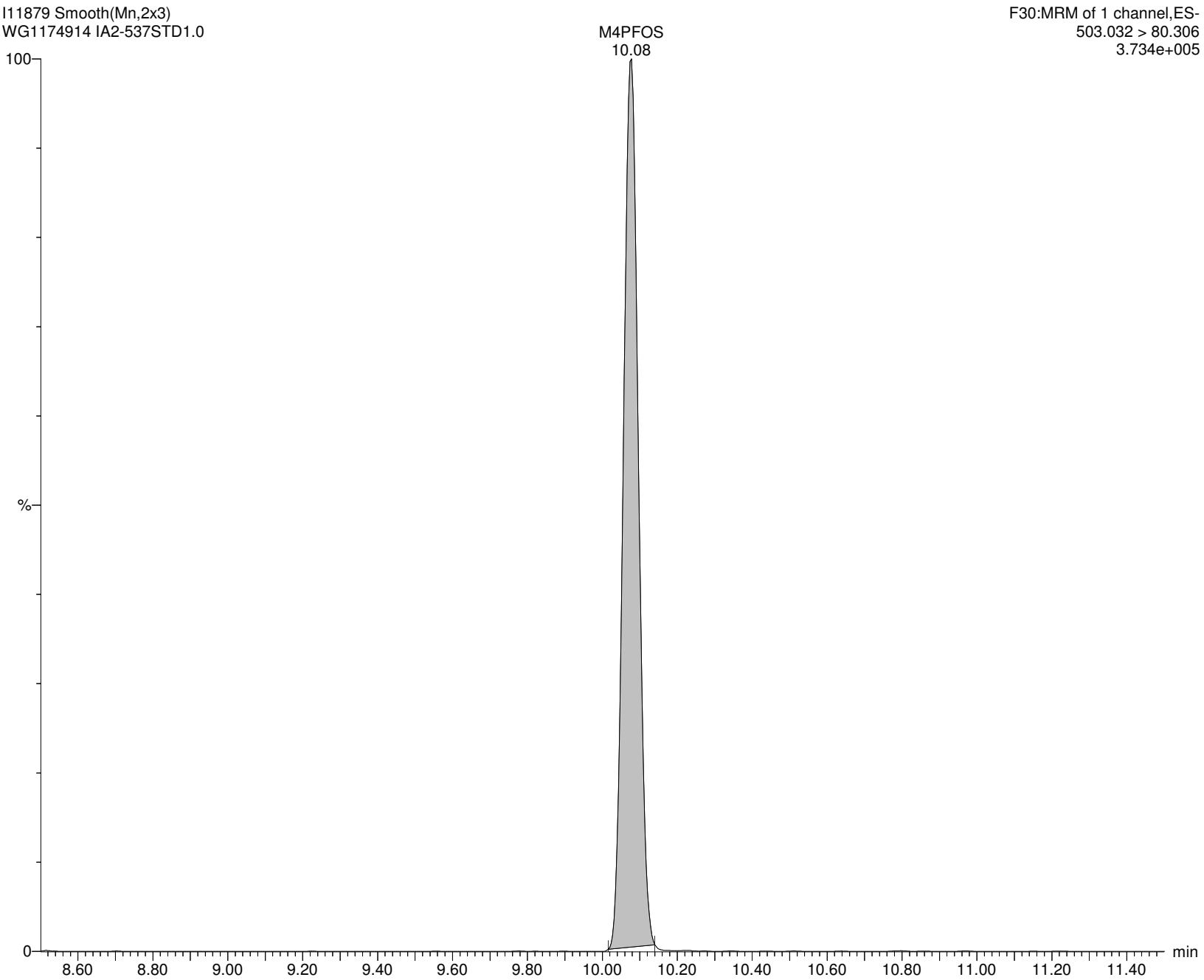

all concentration units in (ng/mL)

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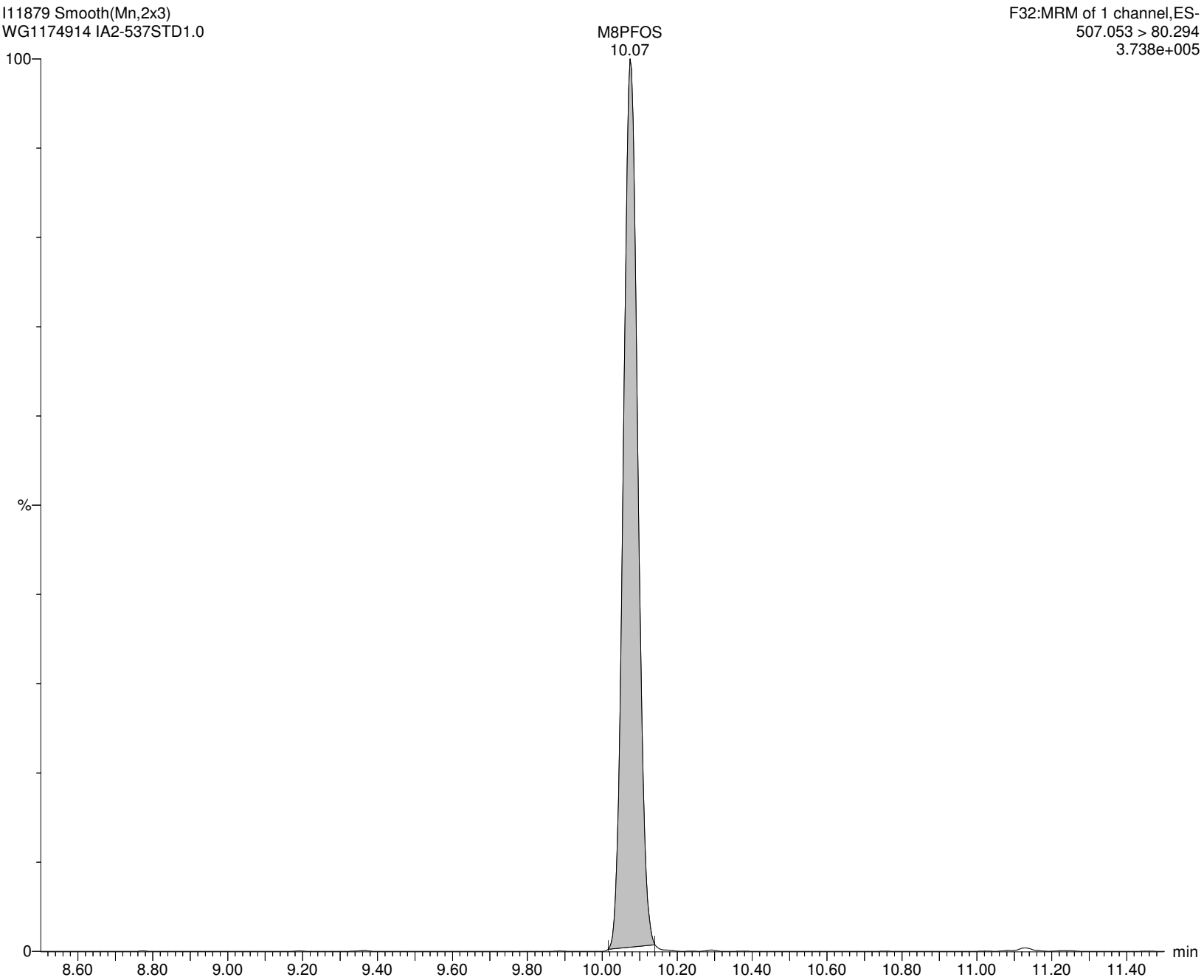

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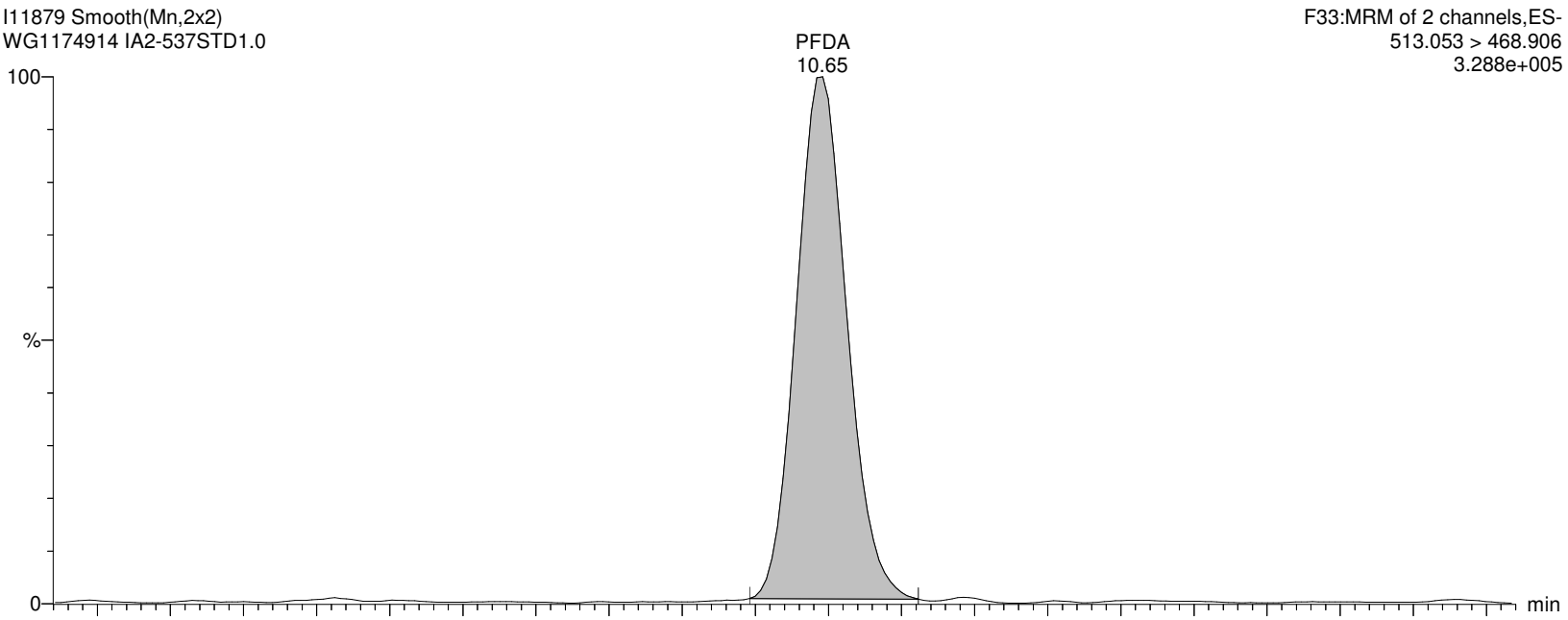

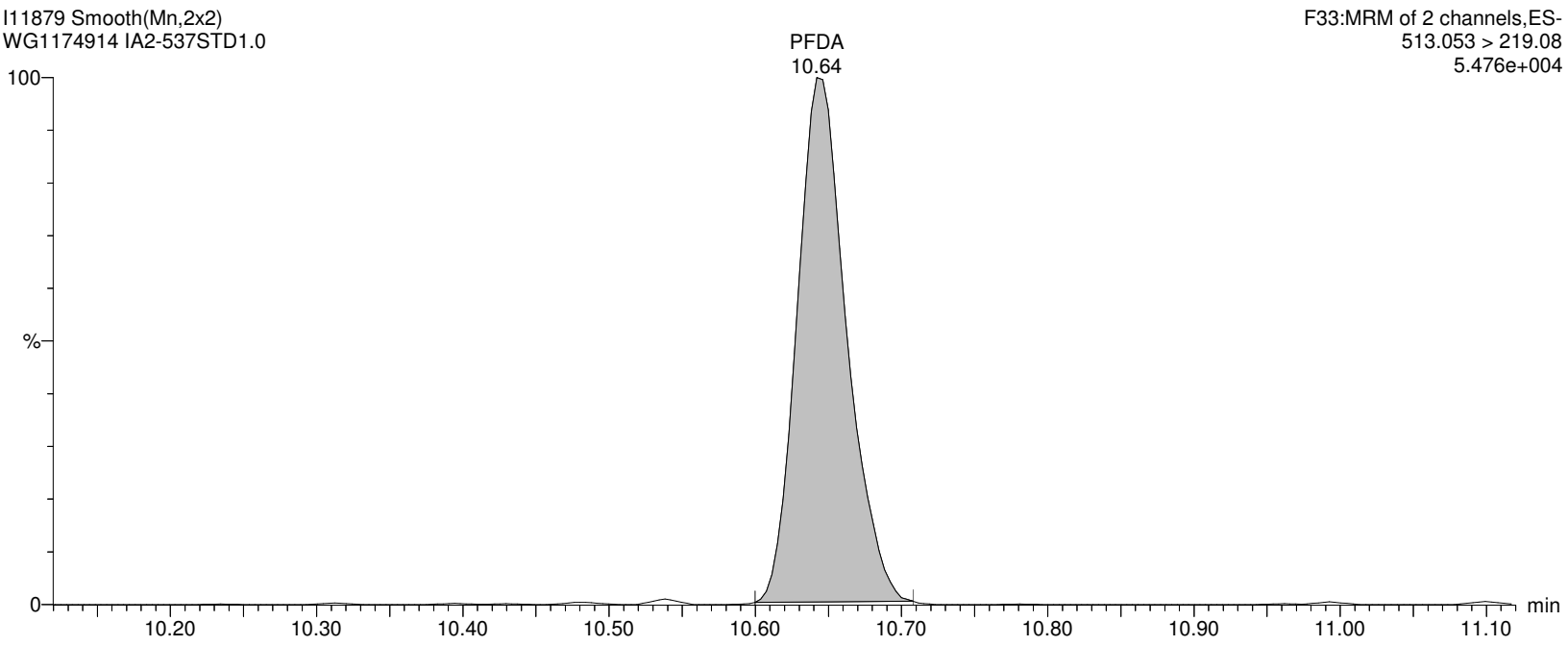

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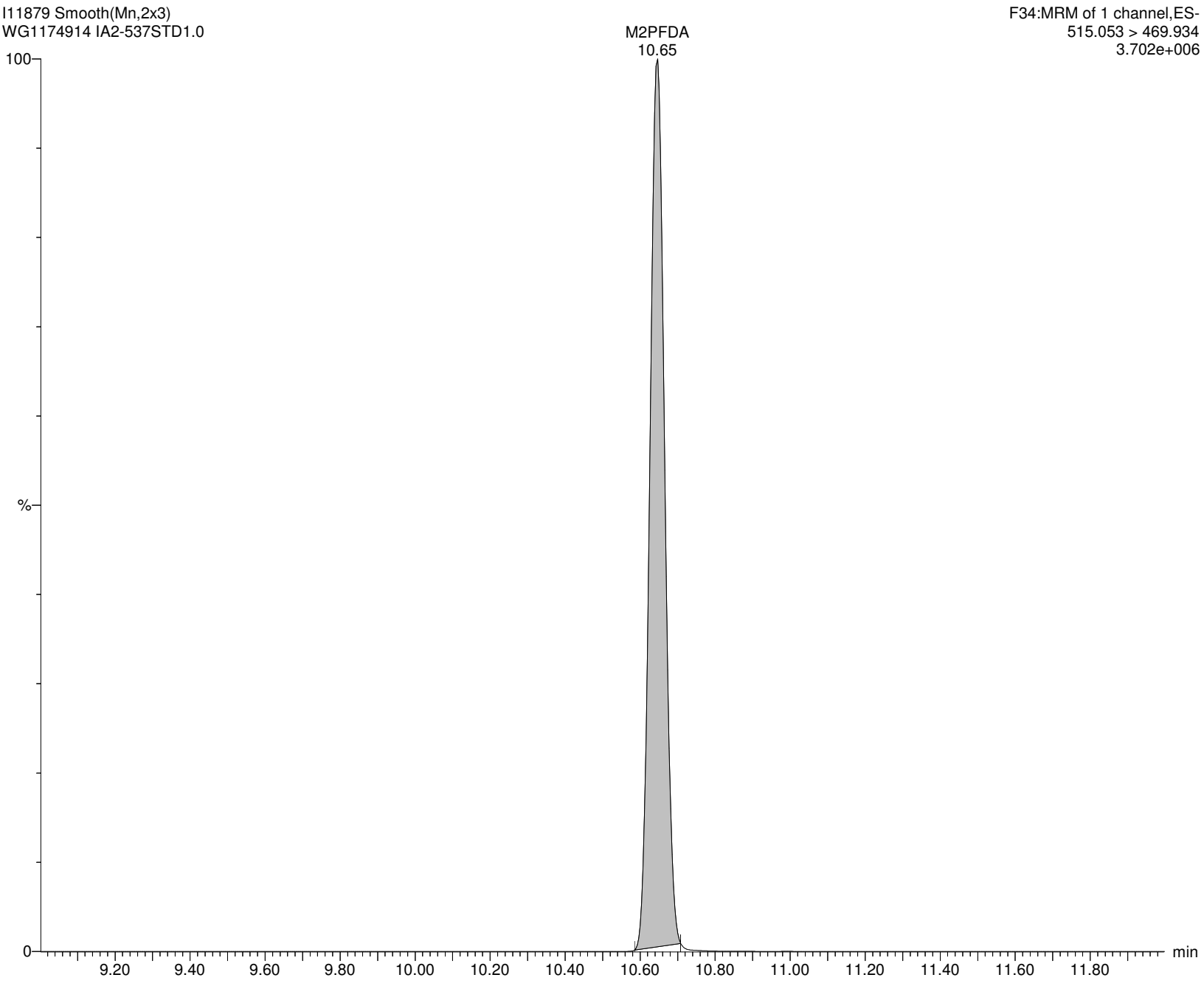

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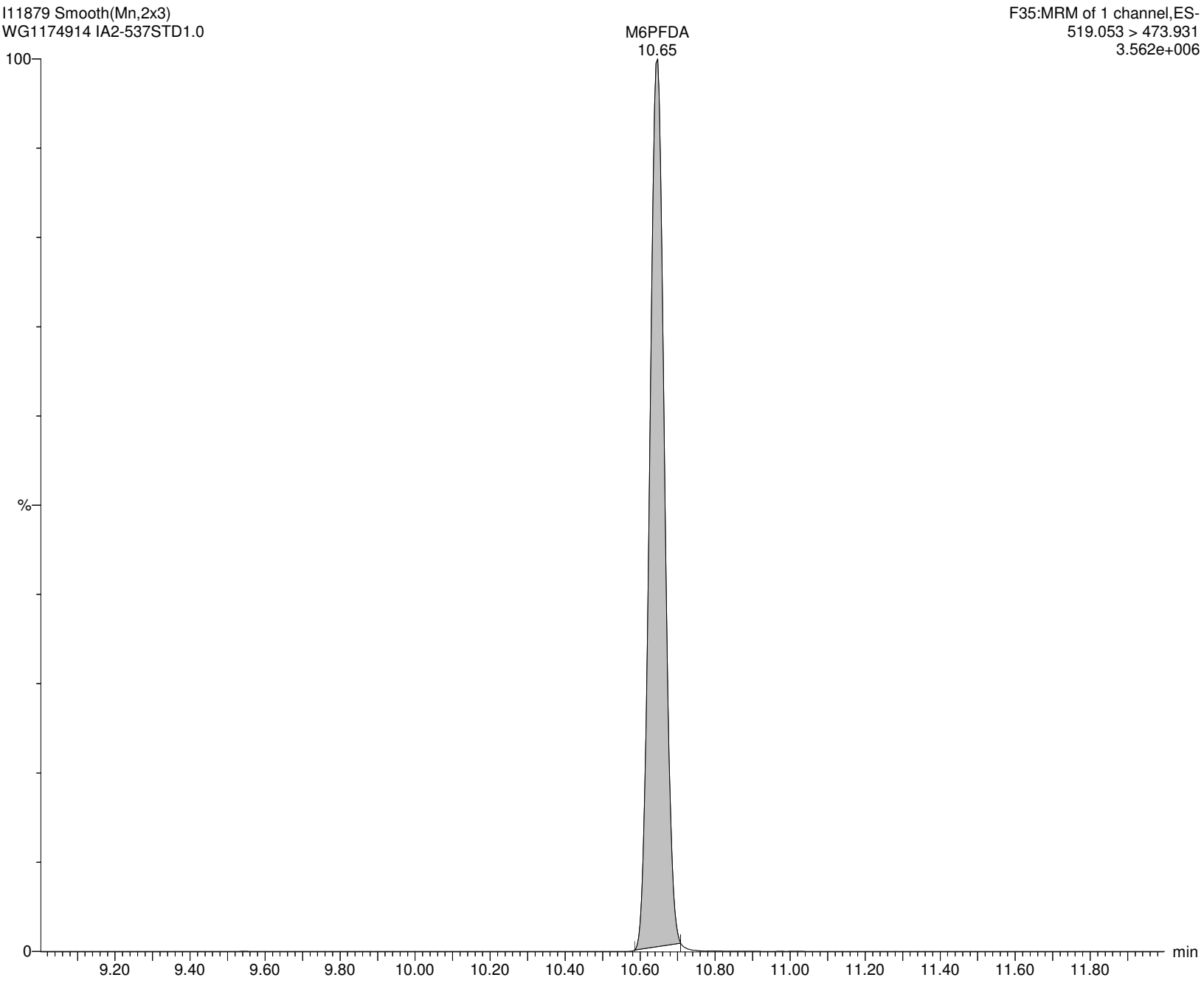

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:19 Eastern Daylight Time

Name: I11879
ID: IA2-537STD1.0
Date: 01-Nov-2018
Time: 17:18:53
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,4
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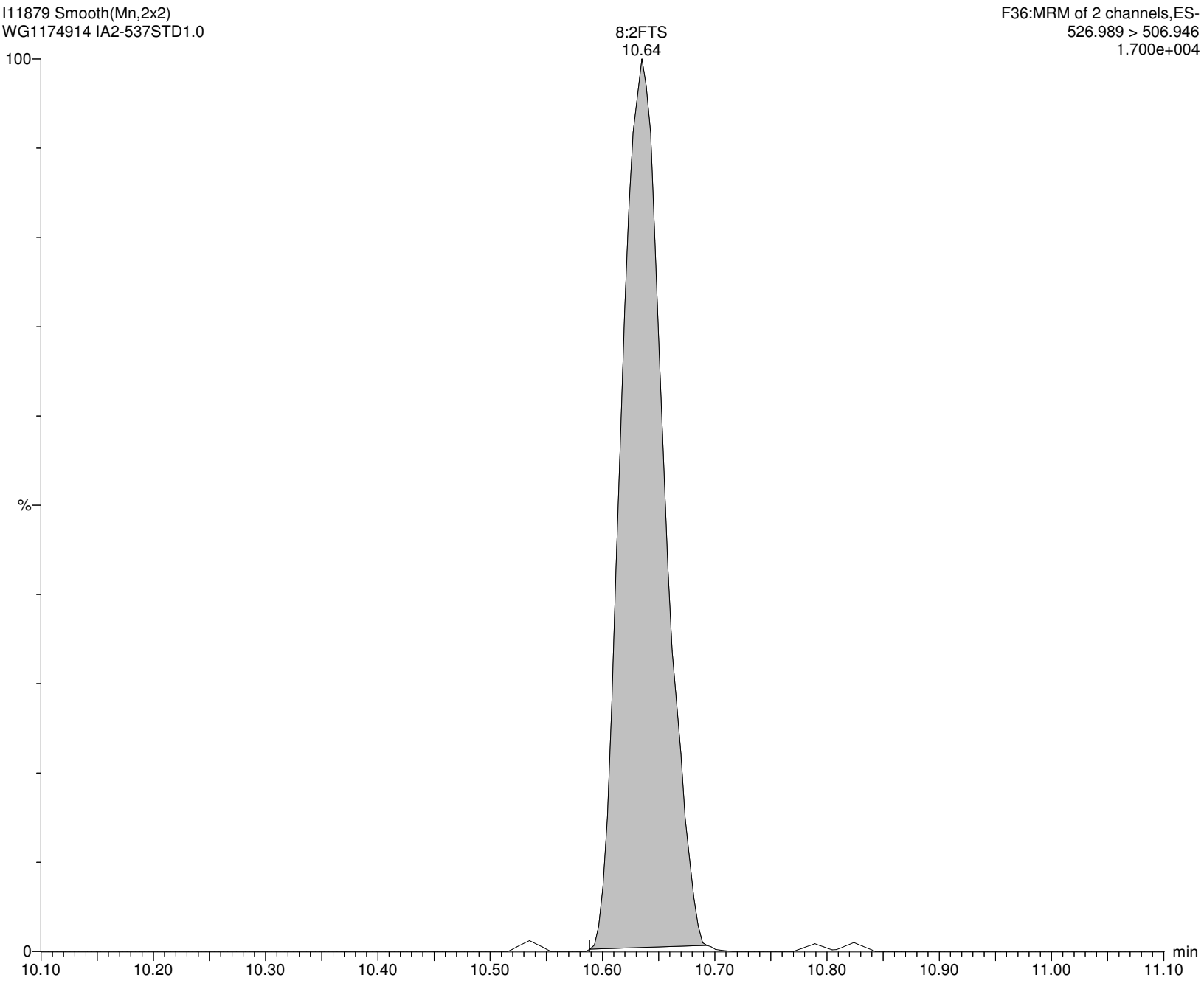

all concentration units in (ng/mL)

Alpha Analytical Inc.
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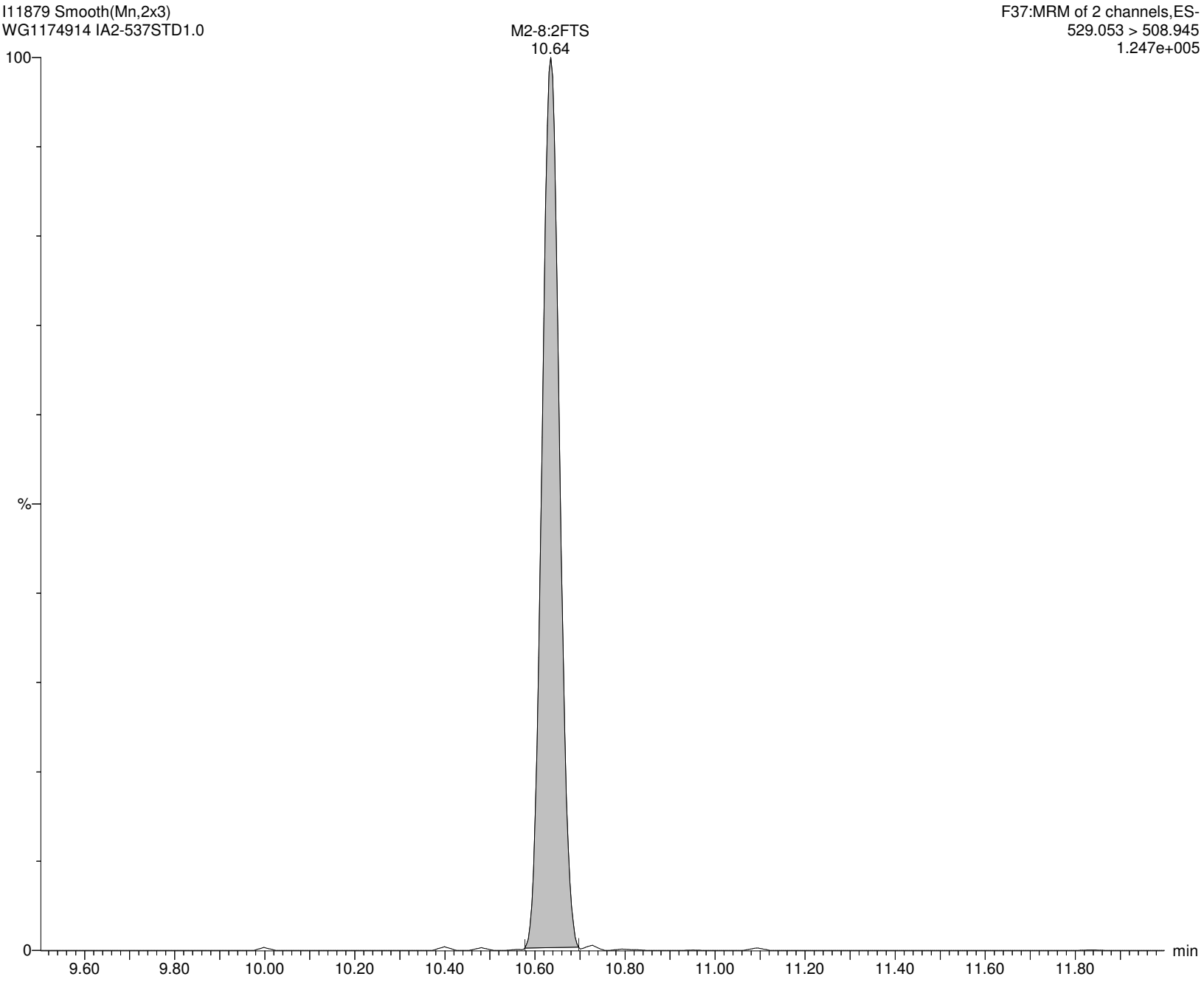

all concentration units in (ng/mL)

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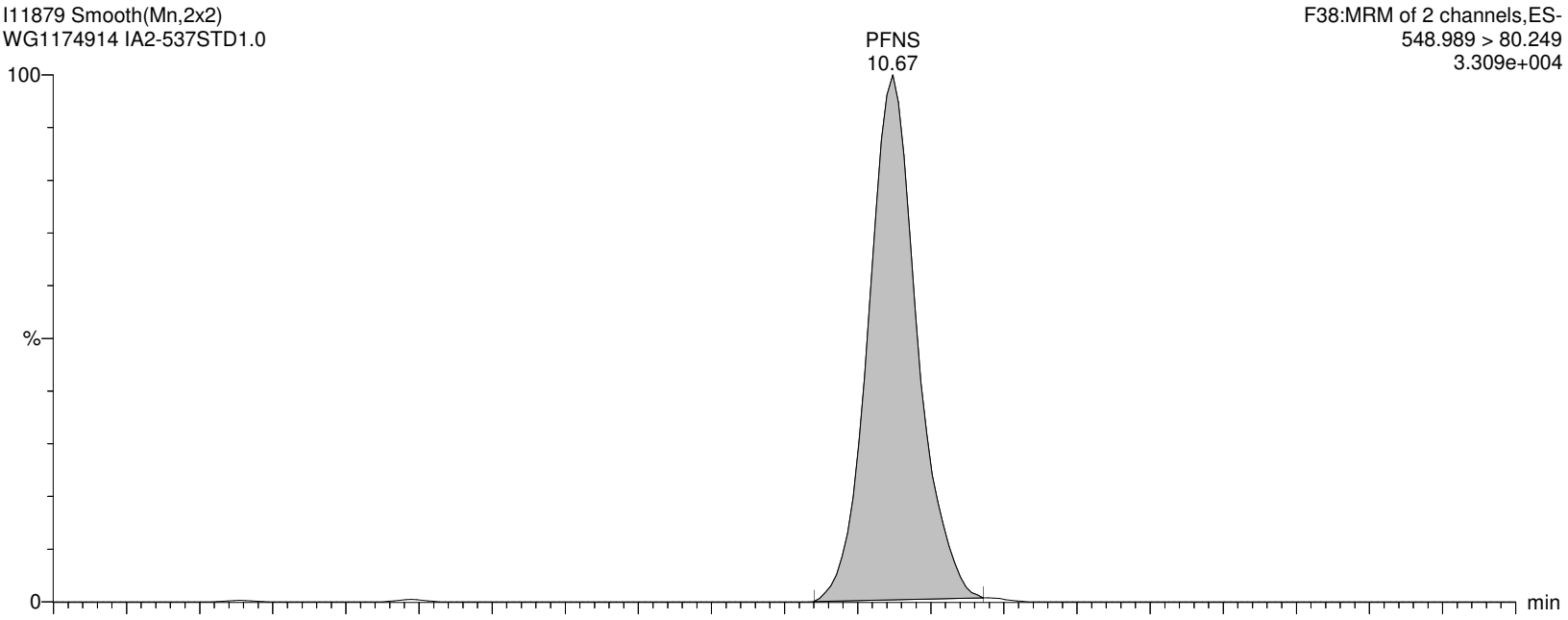

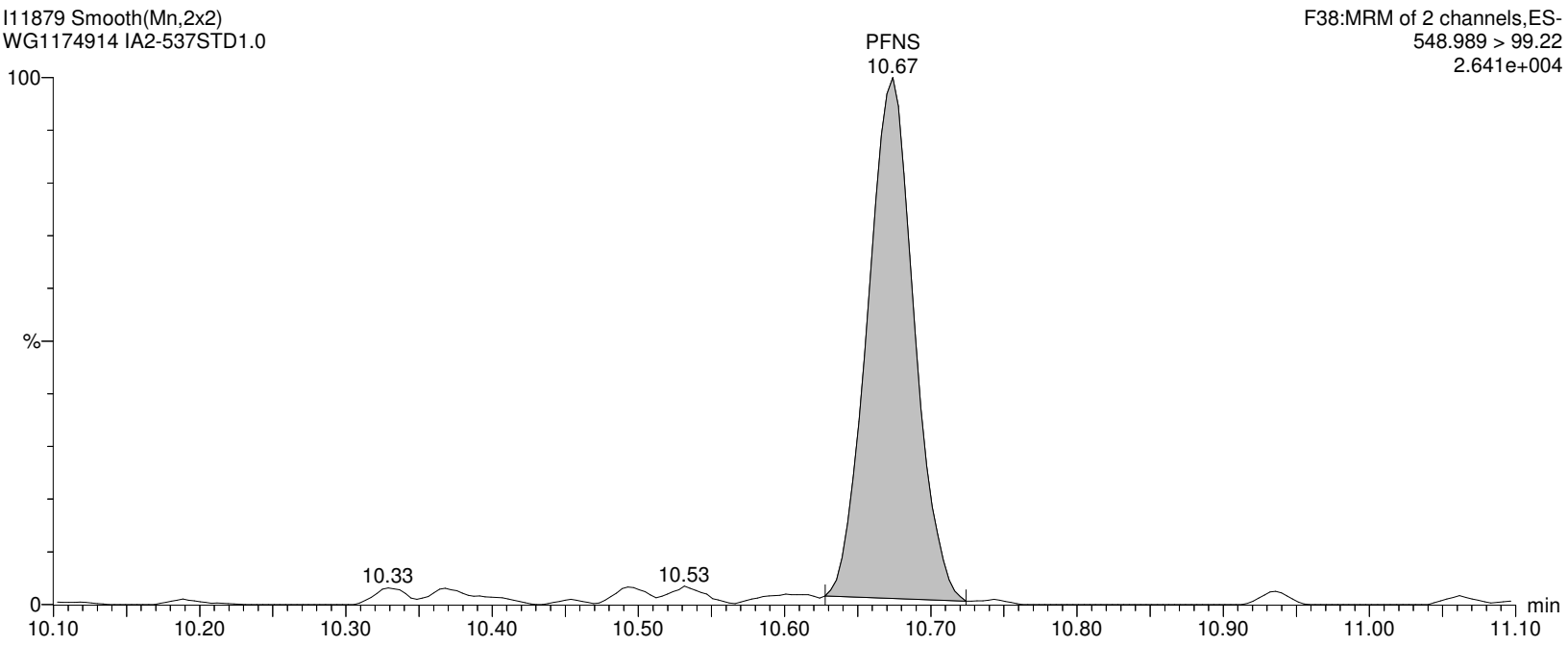

all concentration units in (ng/mL)

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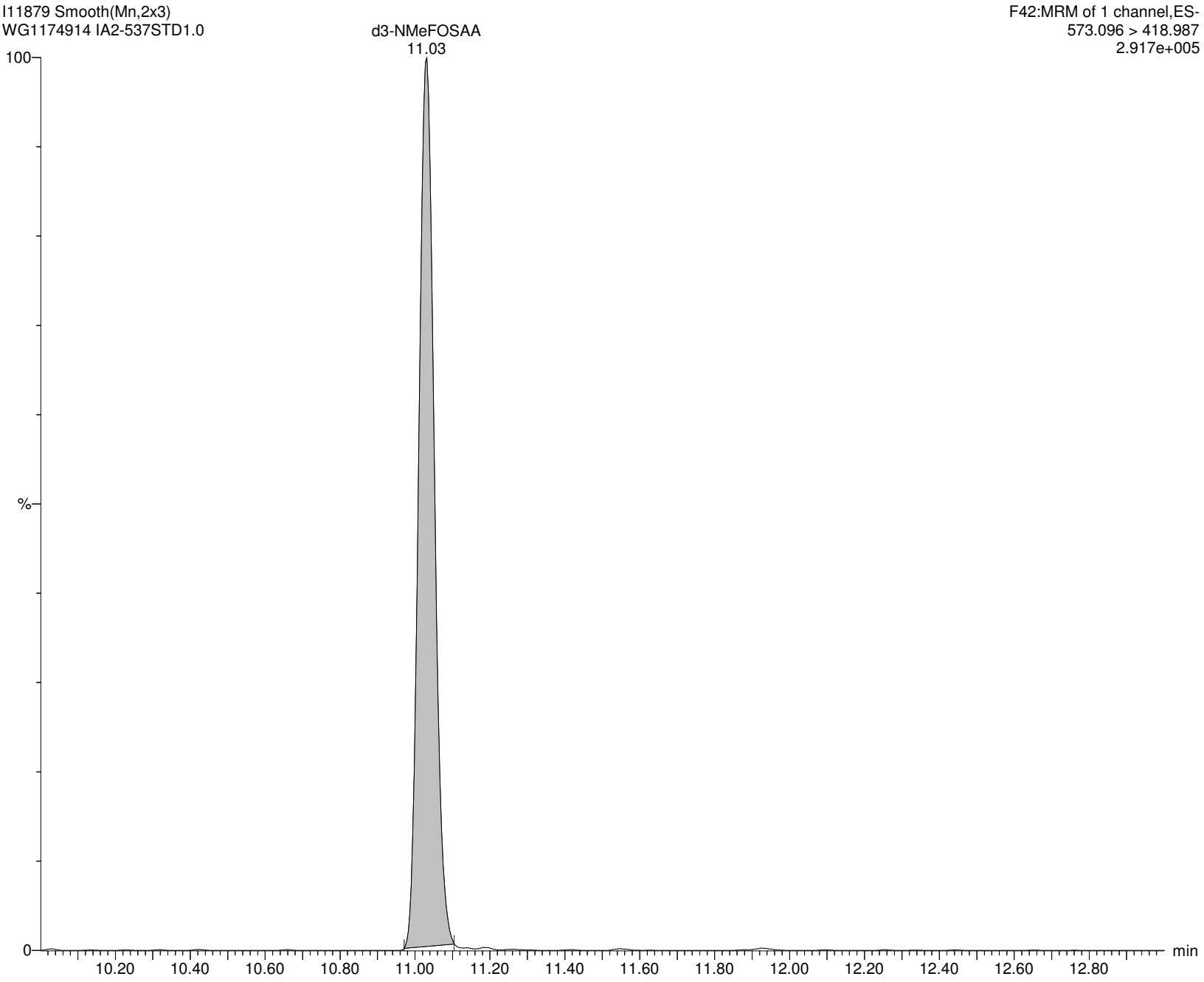

all concentration units in (ng/mL)

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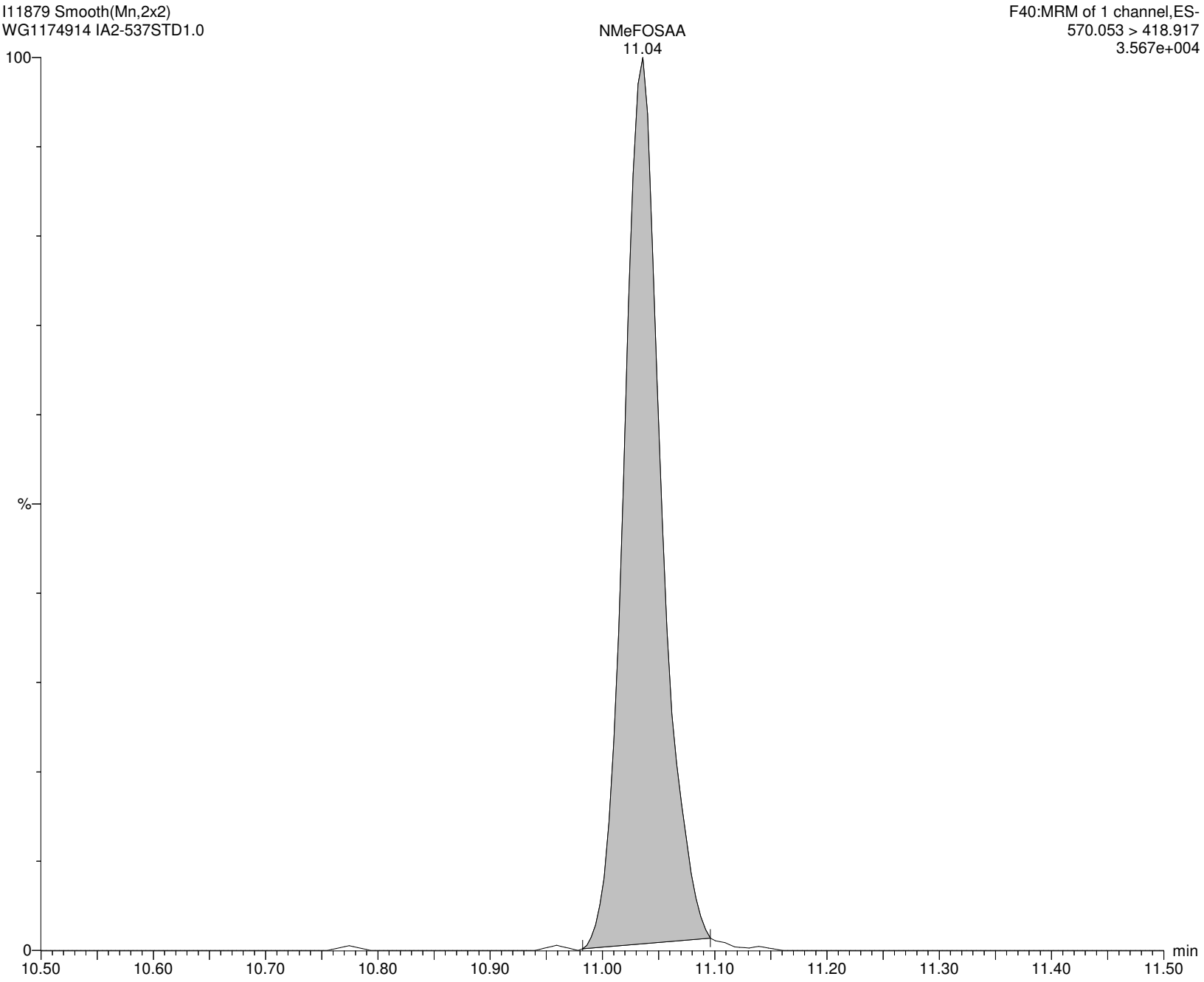

all concentration units in (ng/mL)

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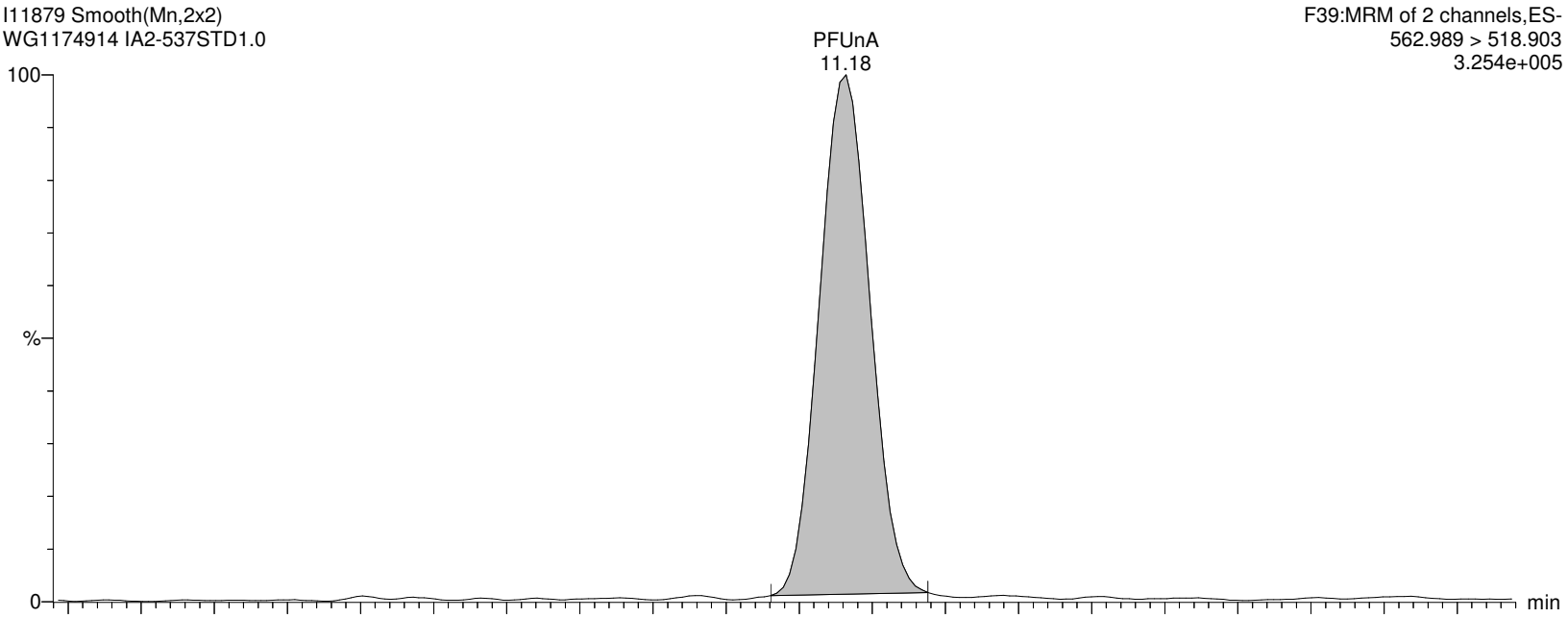

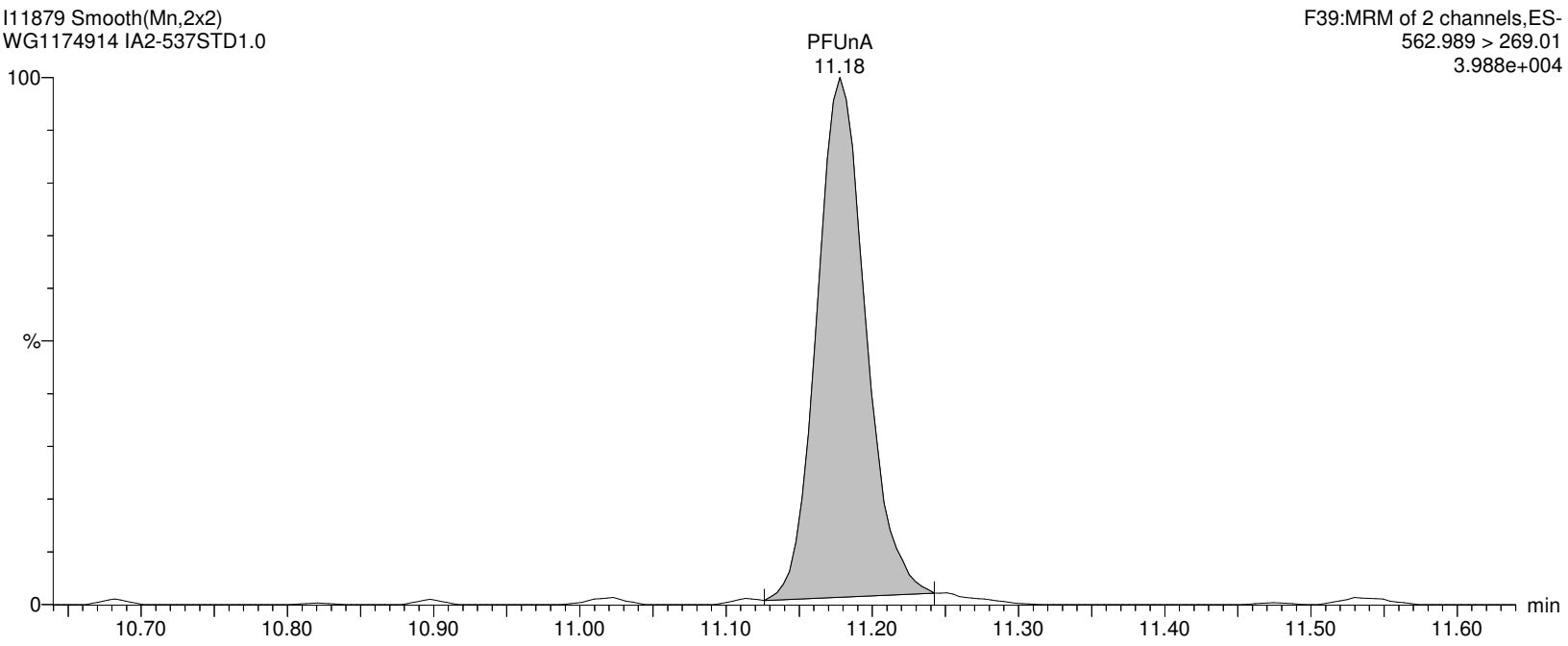

all concentration units in (ng/mL)

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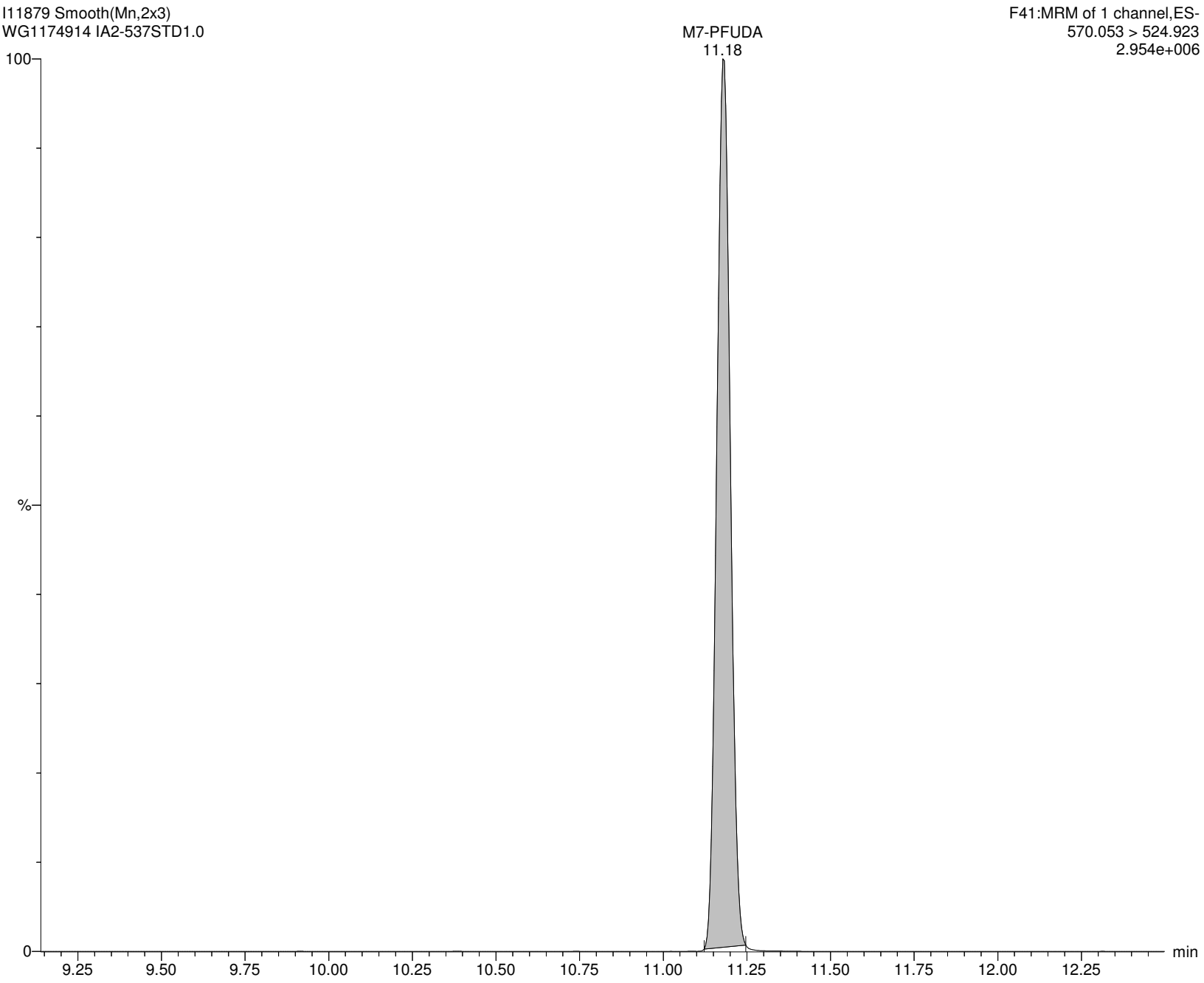
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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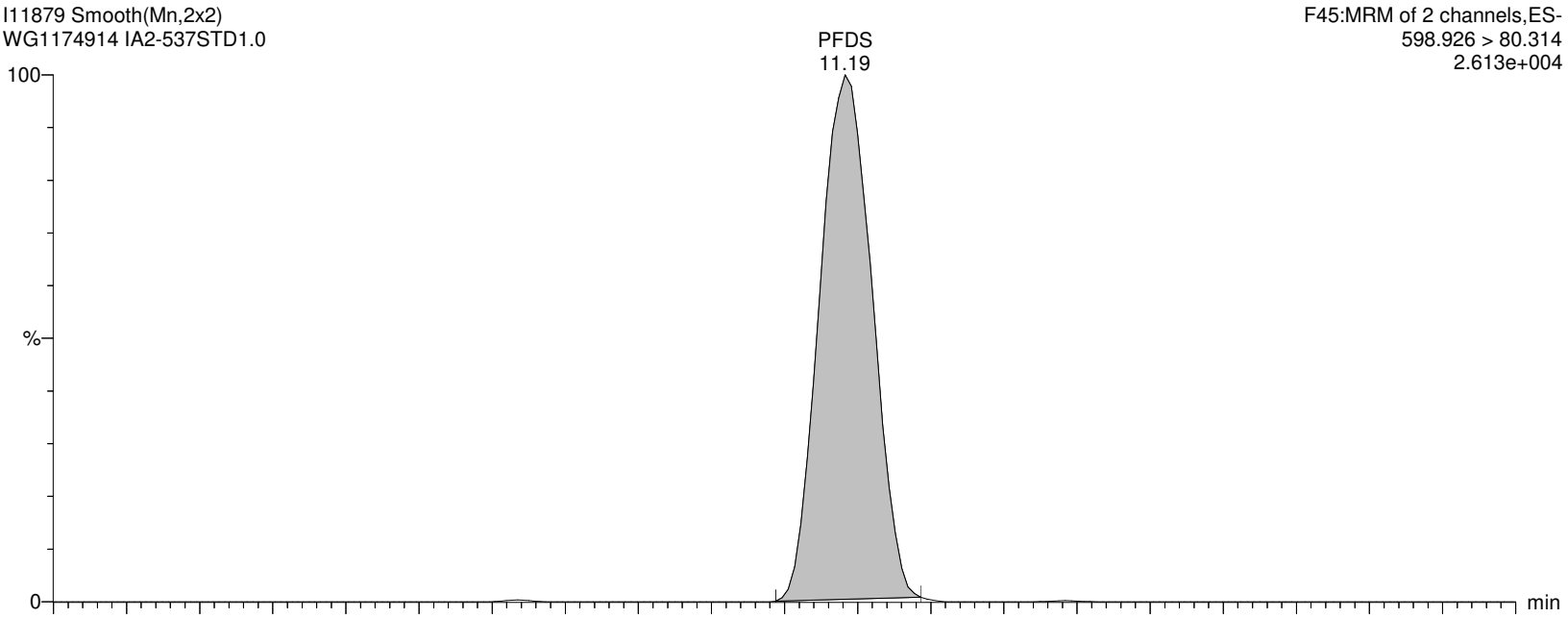

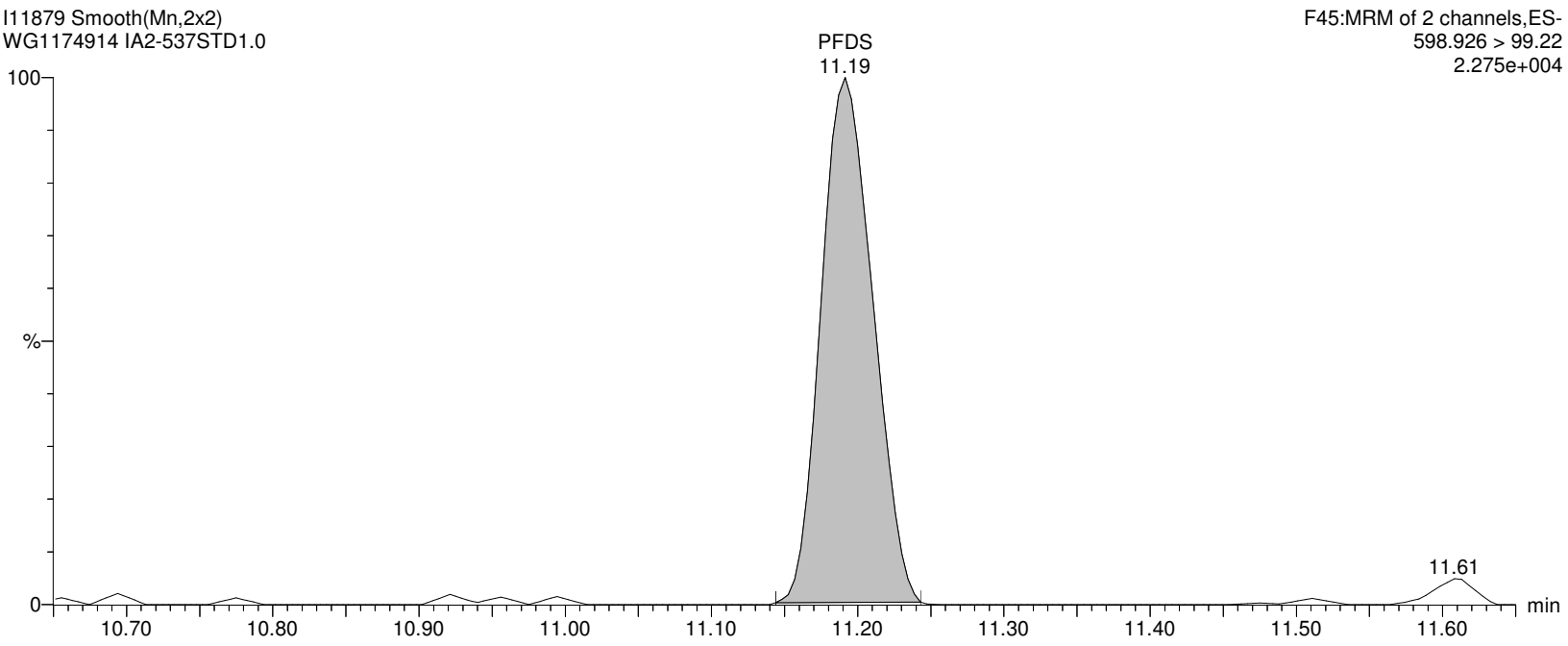

all concentration units in (ng/mL)

Alpha Analytical Inc.
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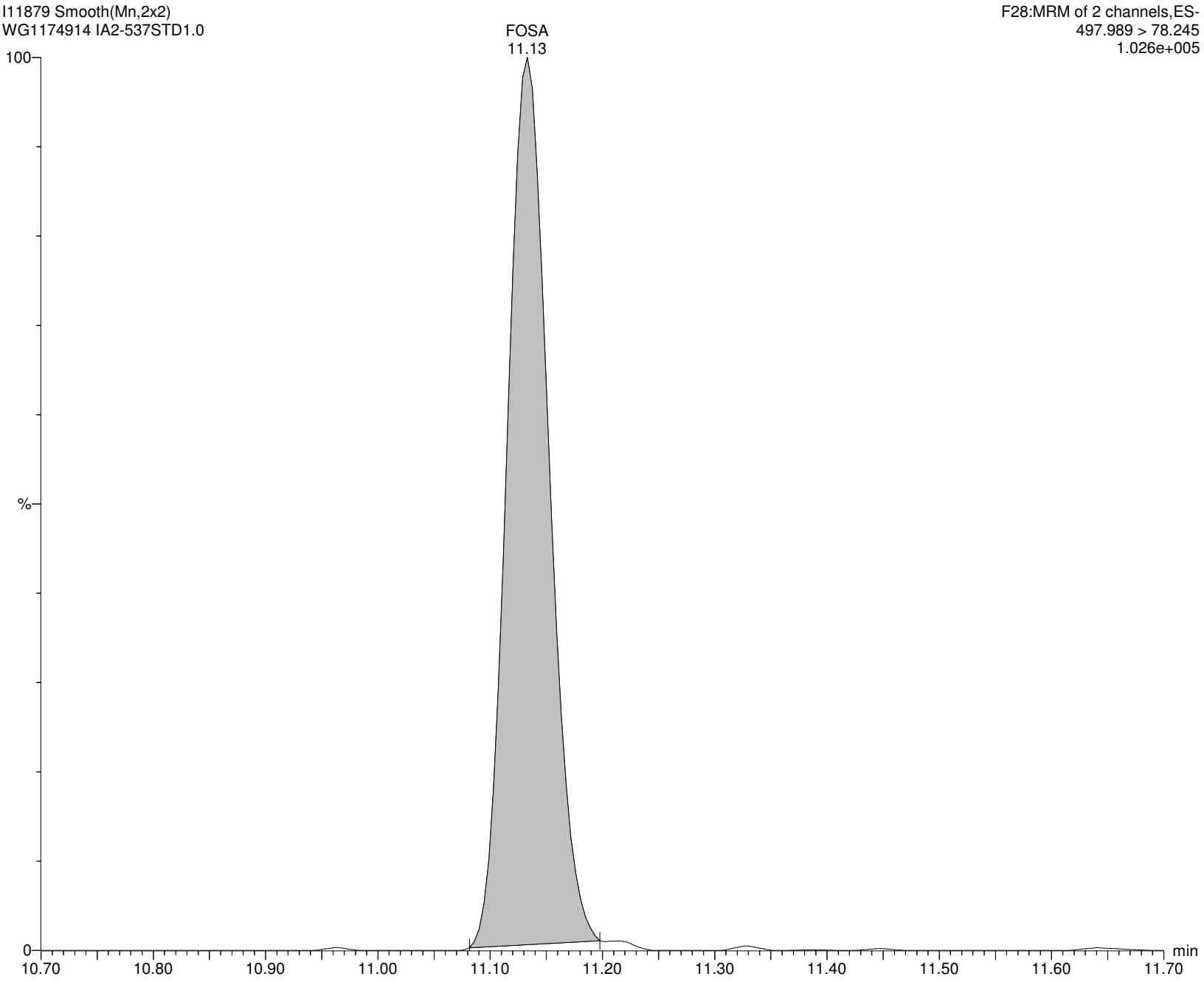

all concentration units in (ng/mL)

Alpha Analytical Inc.
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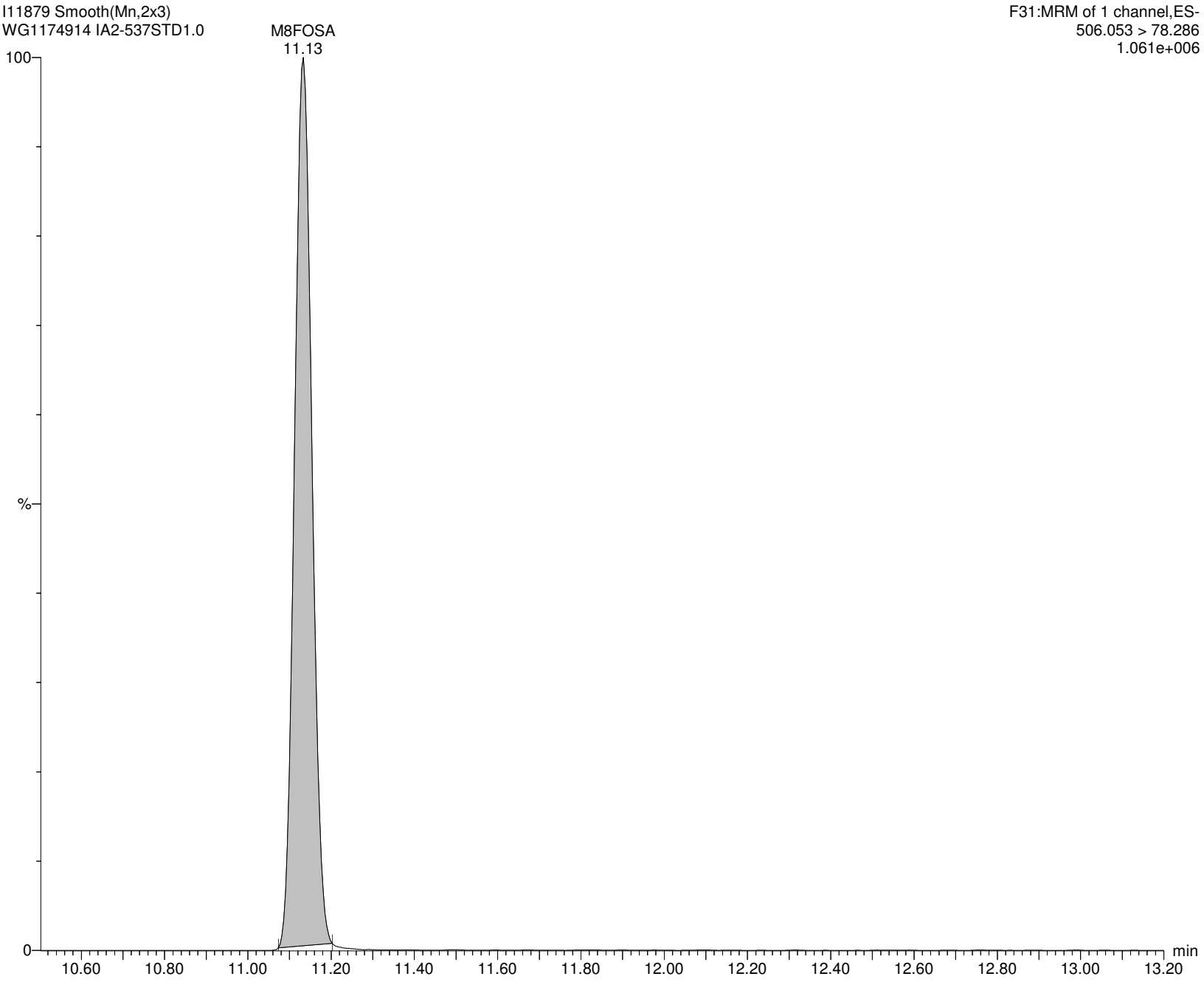

all concentration units in (ng/mL)

Alpha Analytical Inc.
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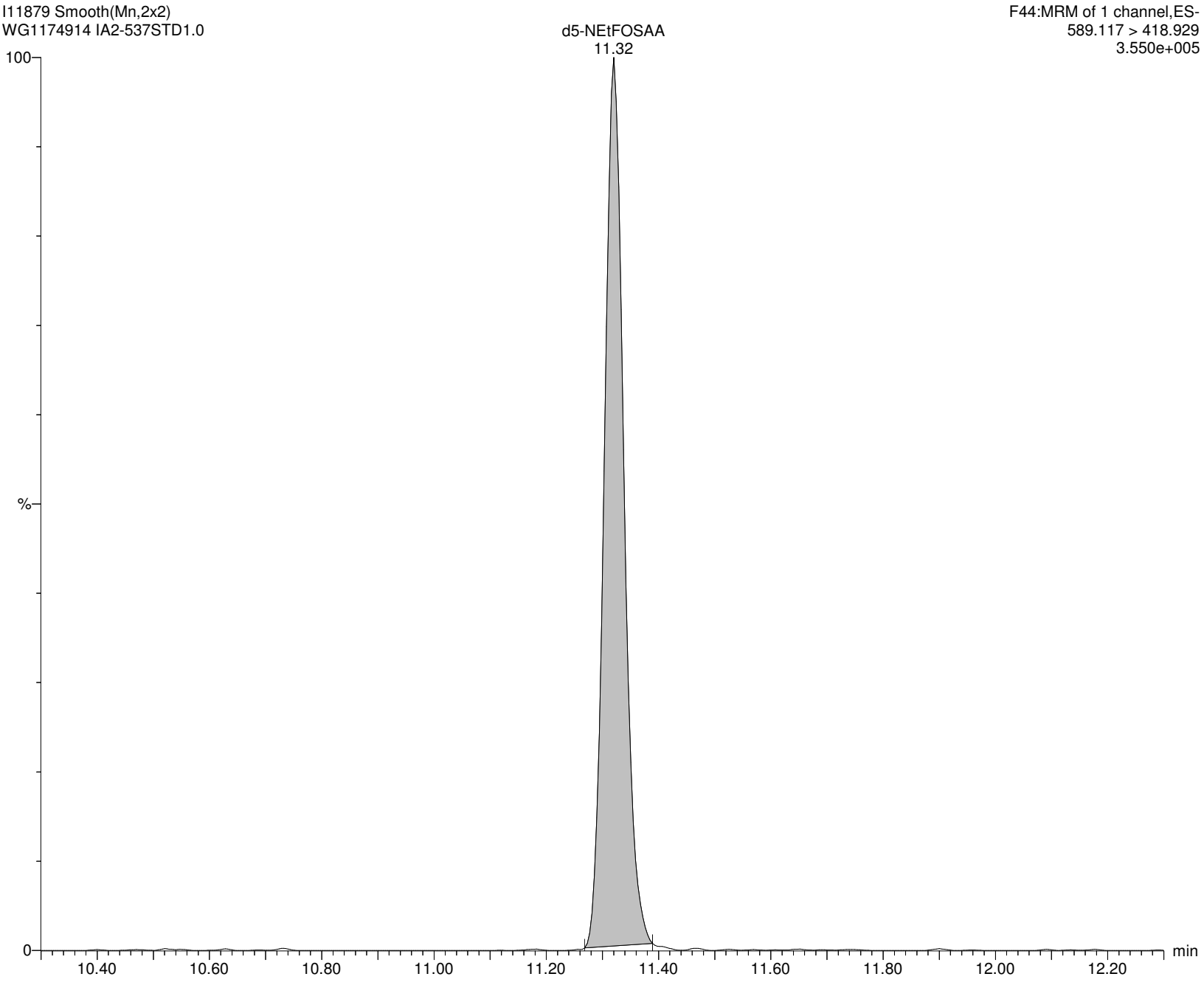

all concentration units in (ng/mL)

Alpha Analytical Inc.
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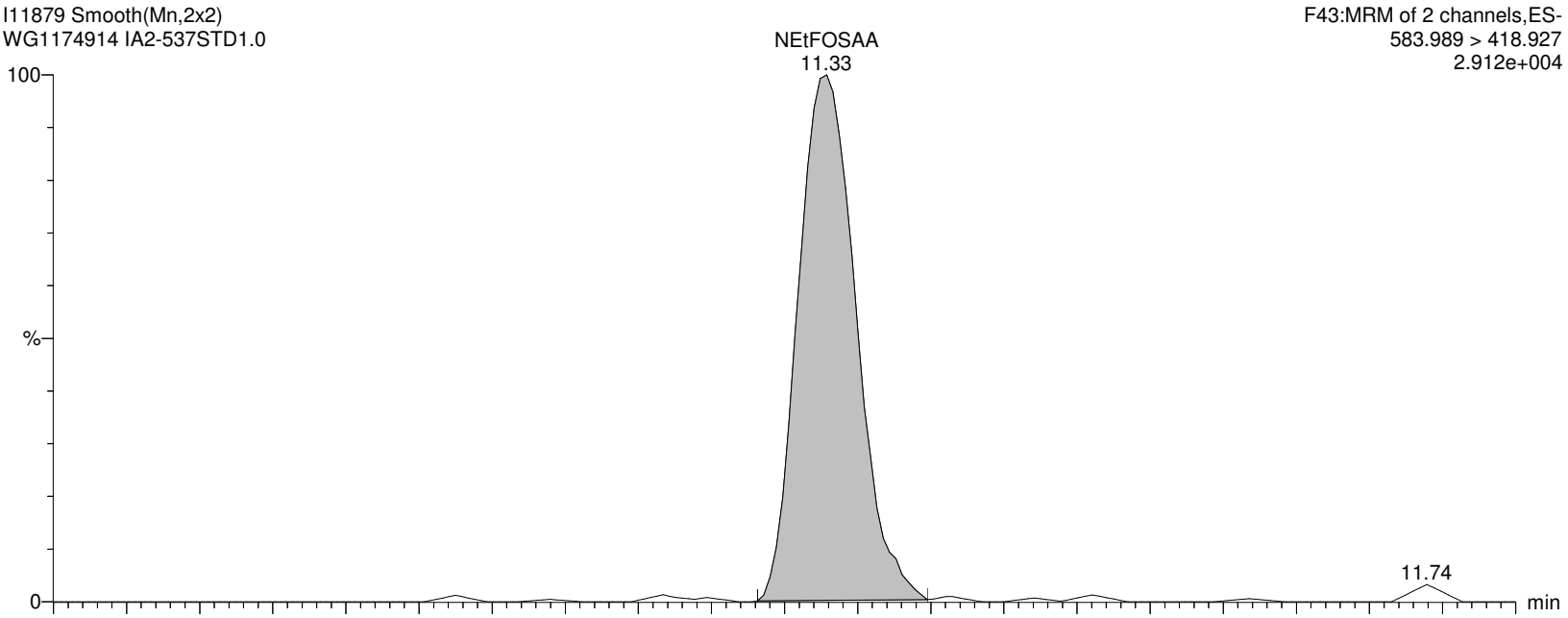

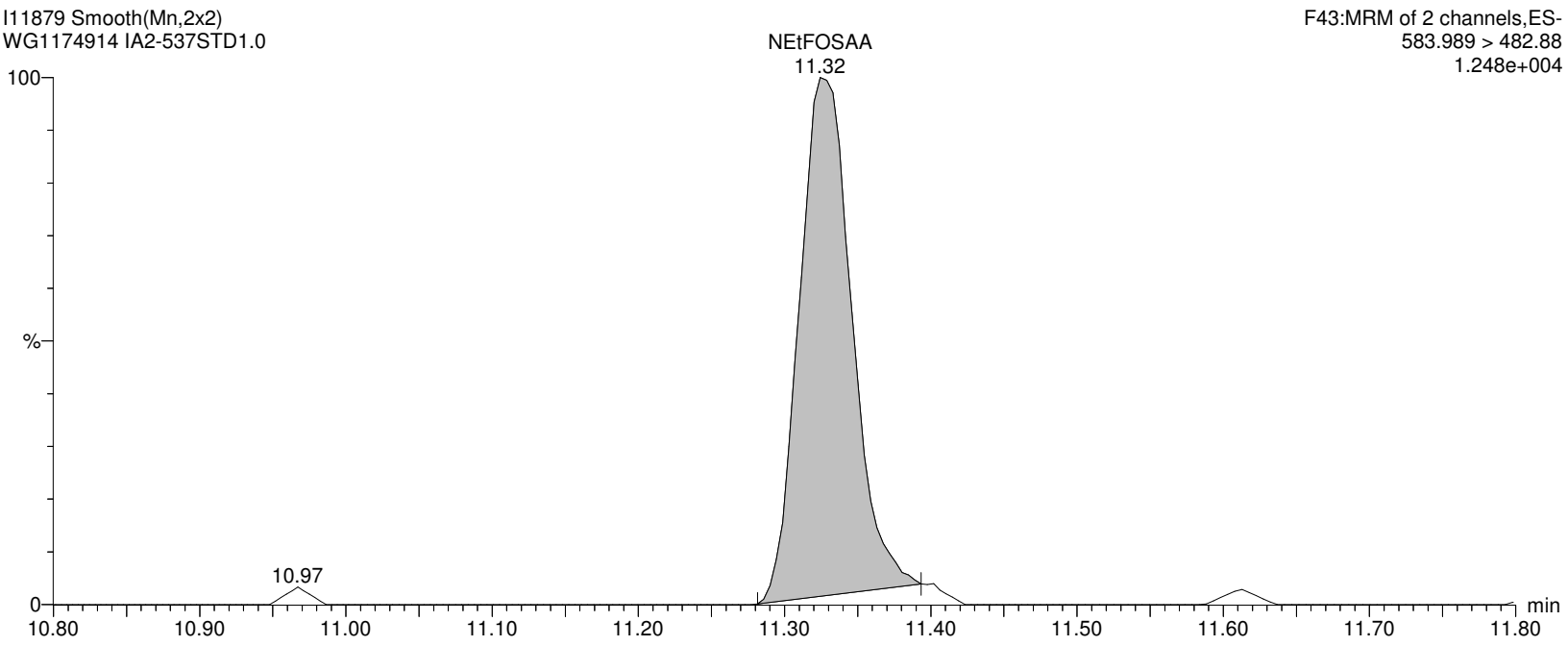

all concentration units in (ng/mL)

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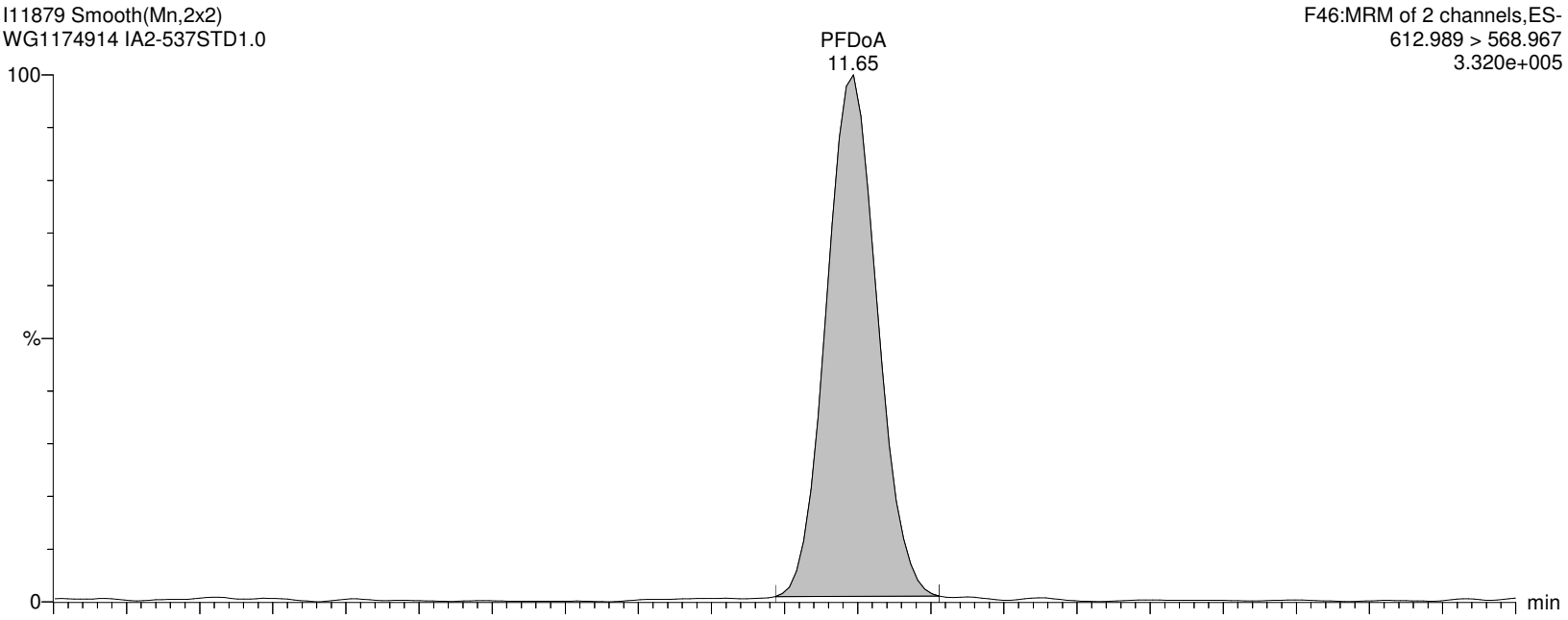

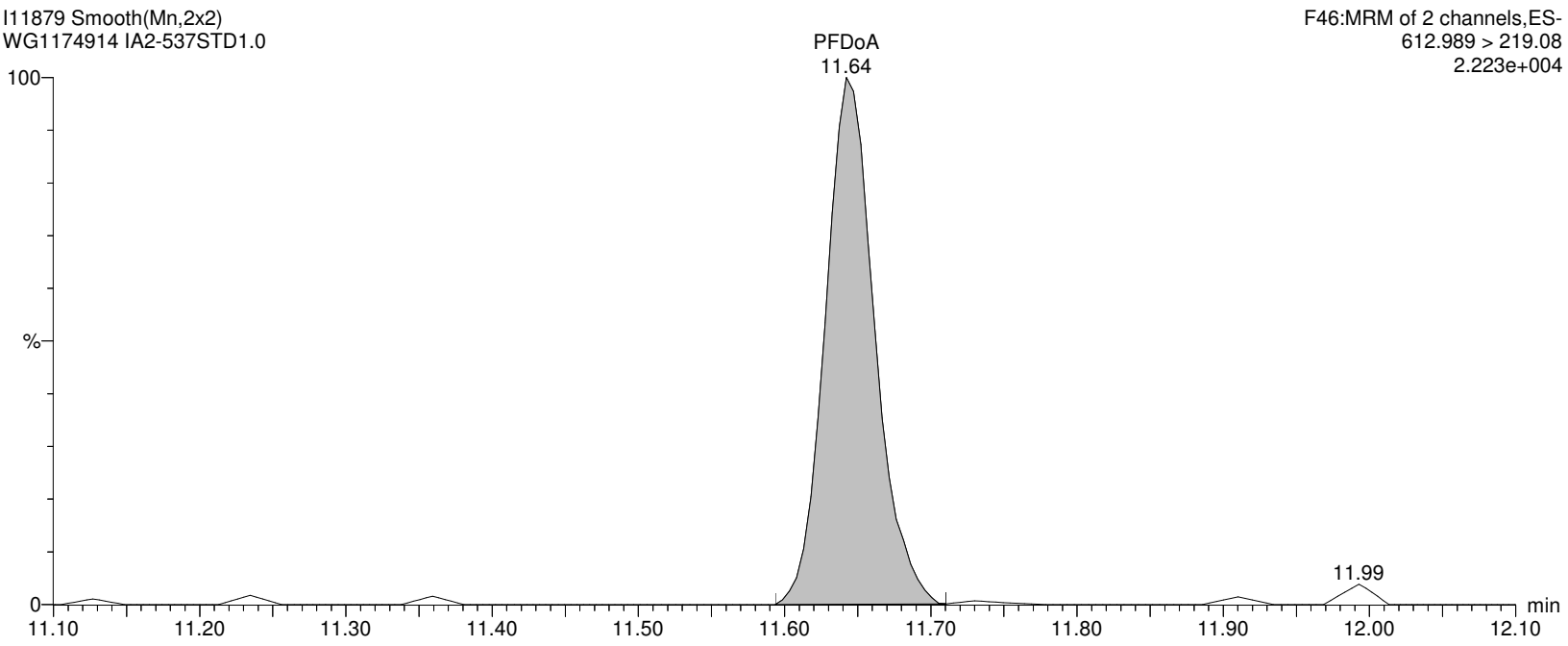

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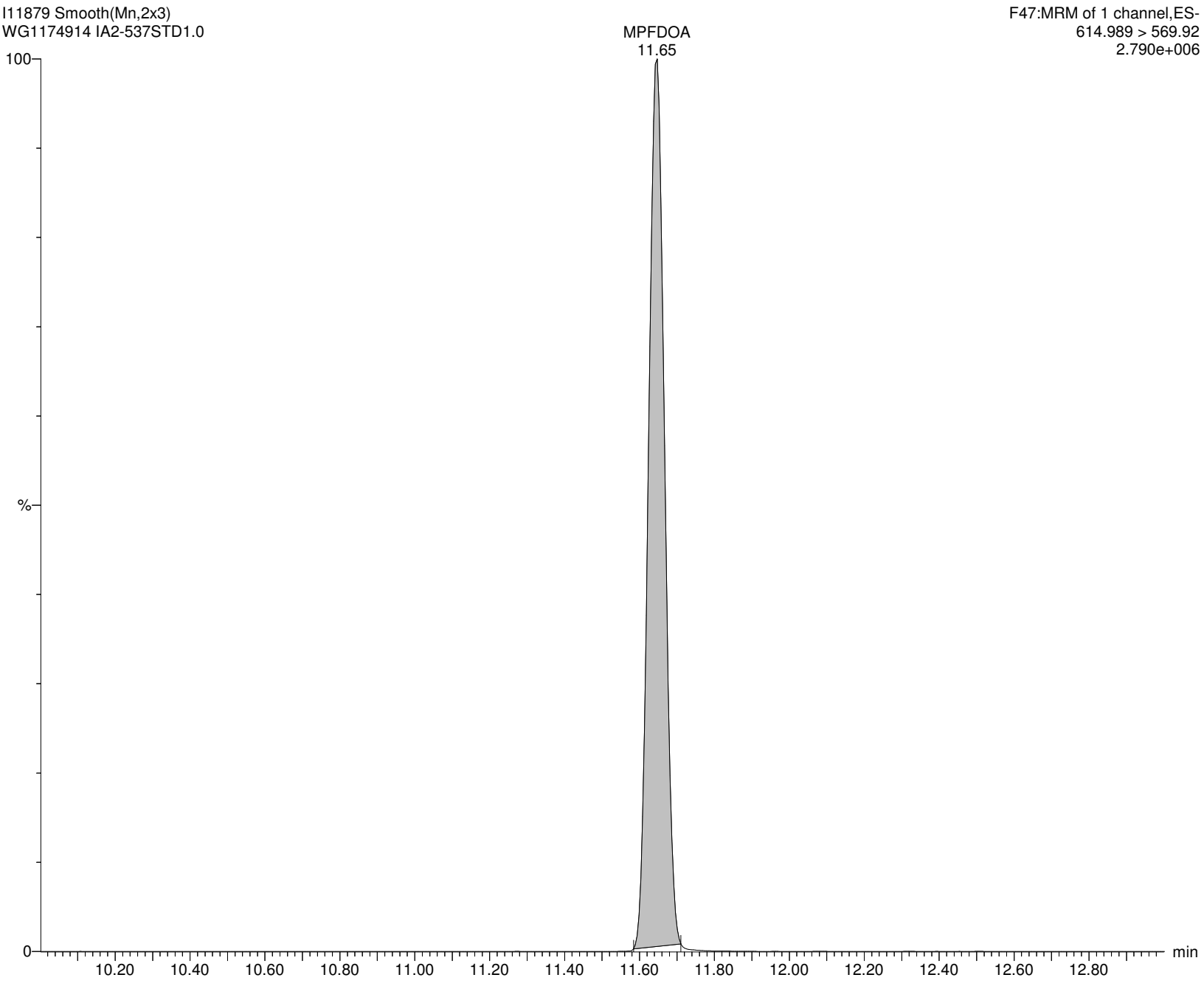

all concentration units in (ng/mL)

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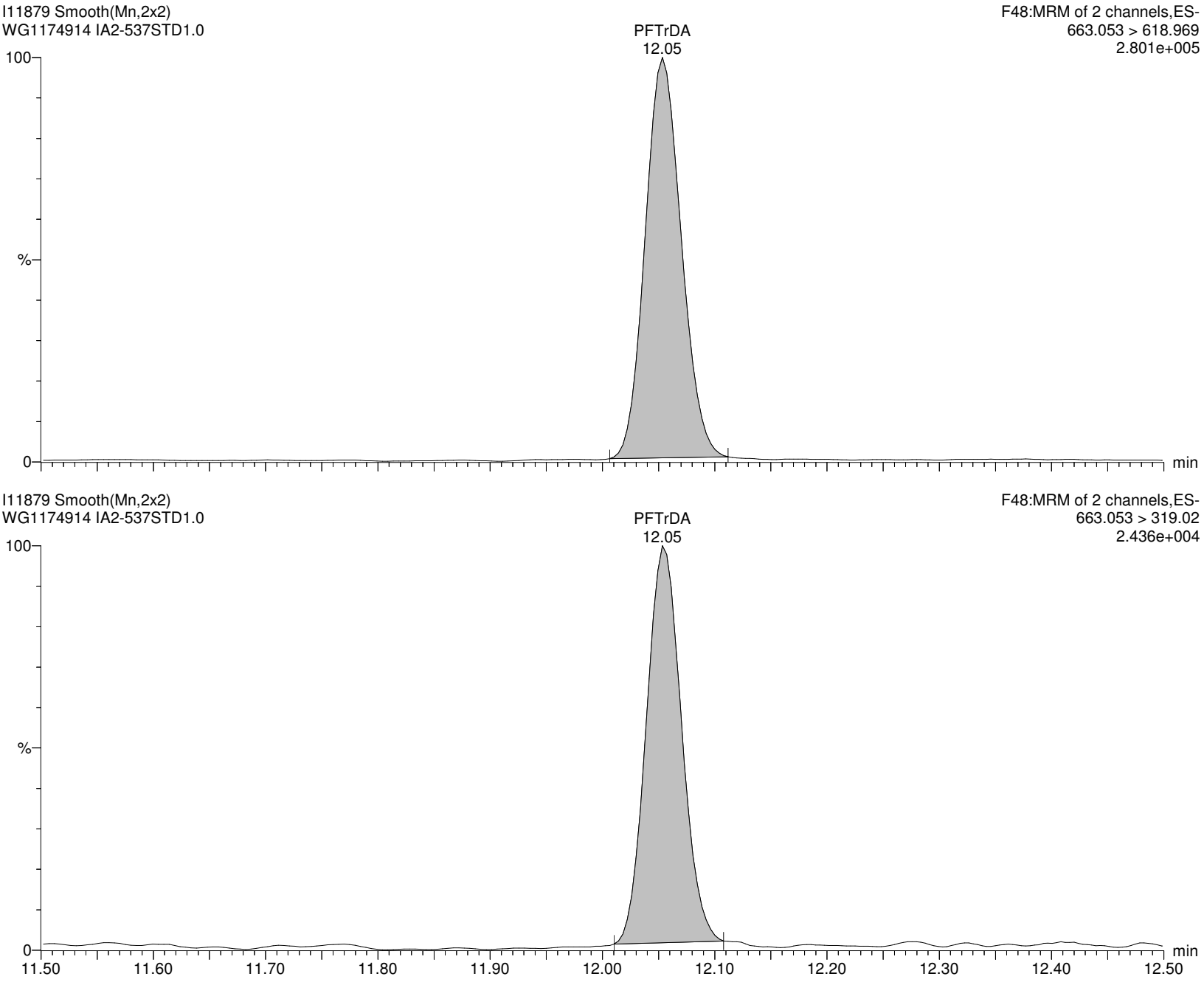

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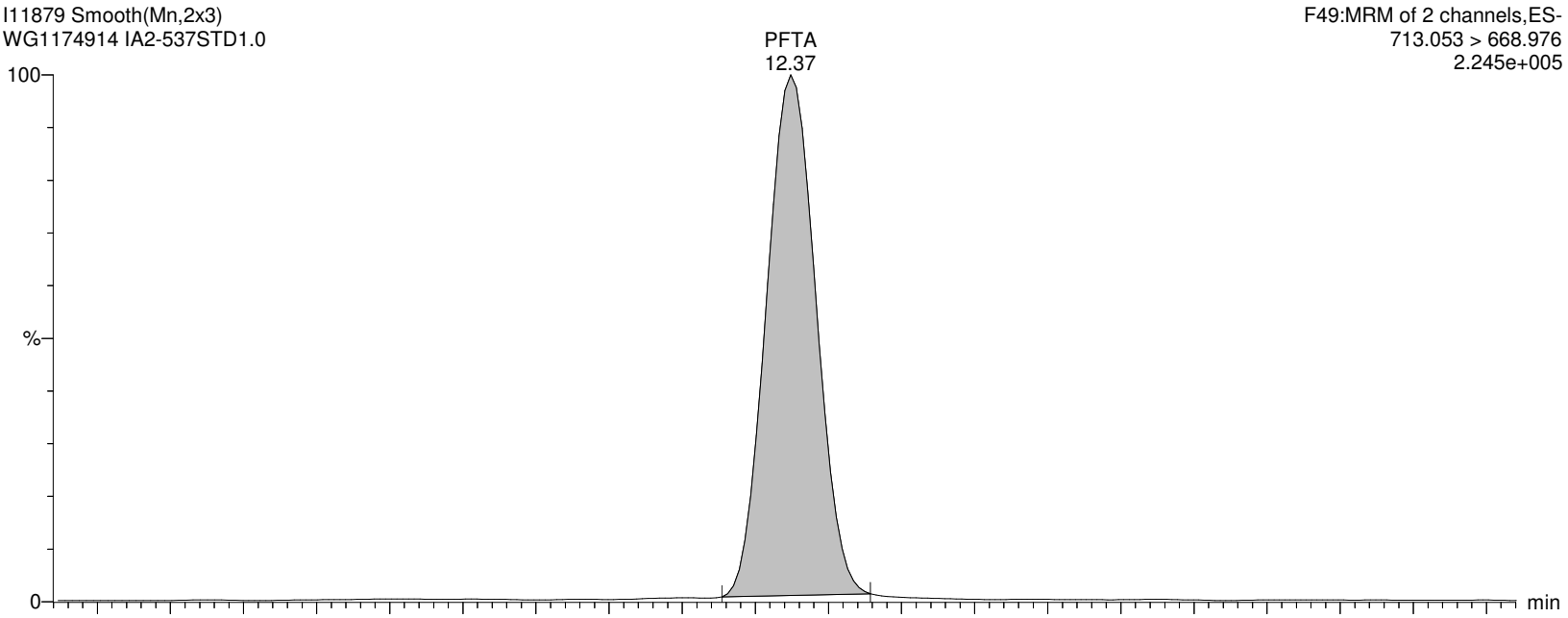

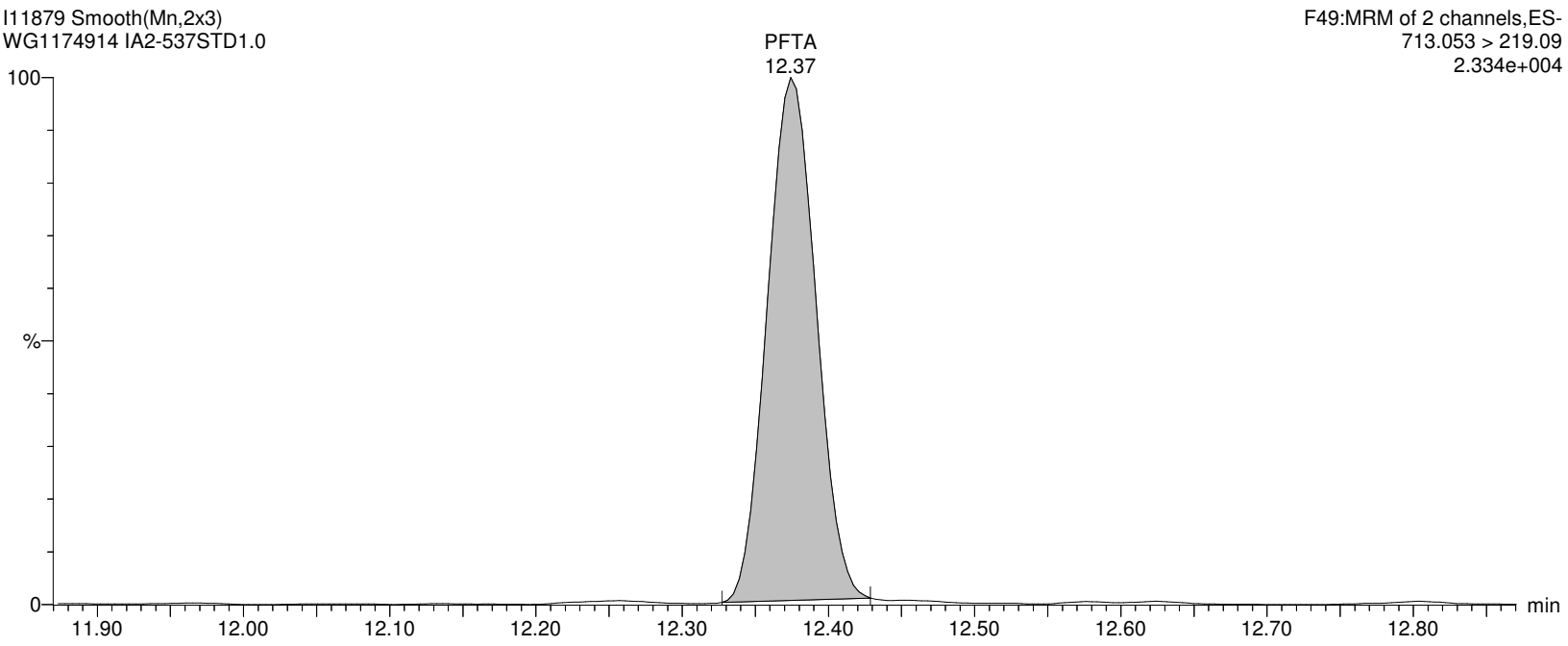

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ID: IA2-537STD1.0
Date: 01-Nov-2018
Time: 17:18:53
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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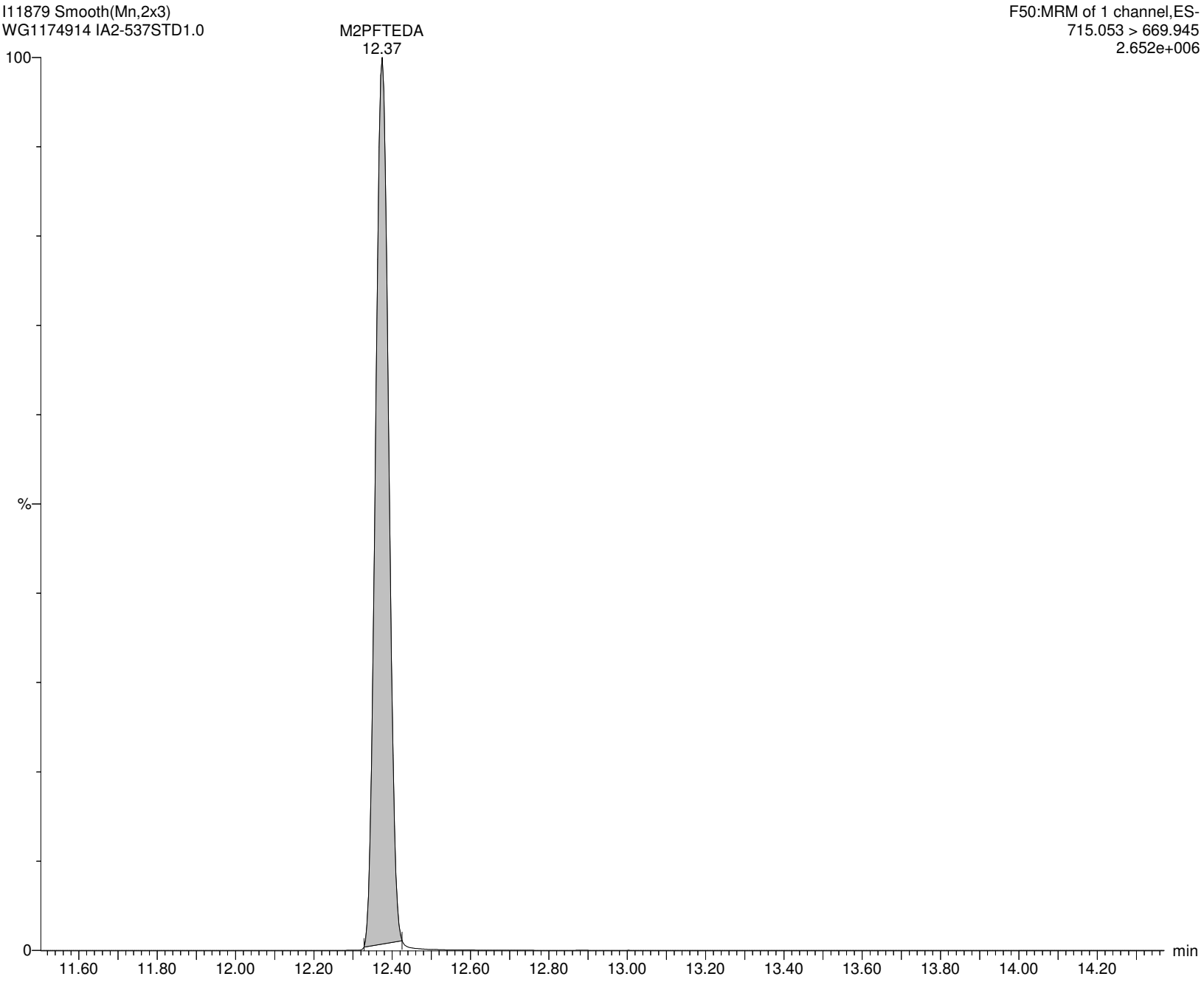

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, November 01, 2018 20:30:19 Eastern Daylight Time

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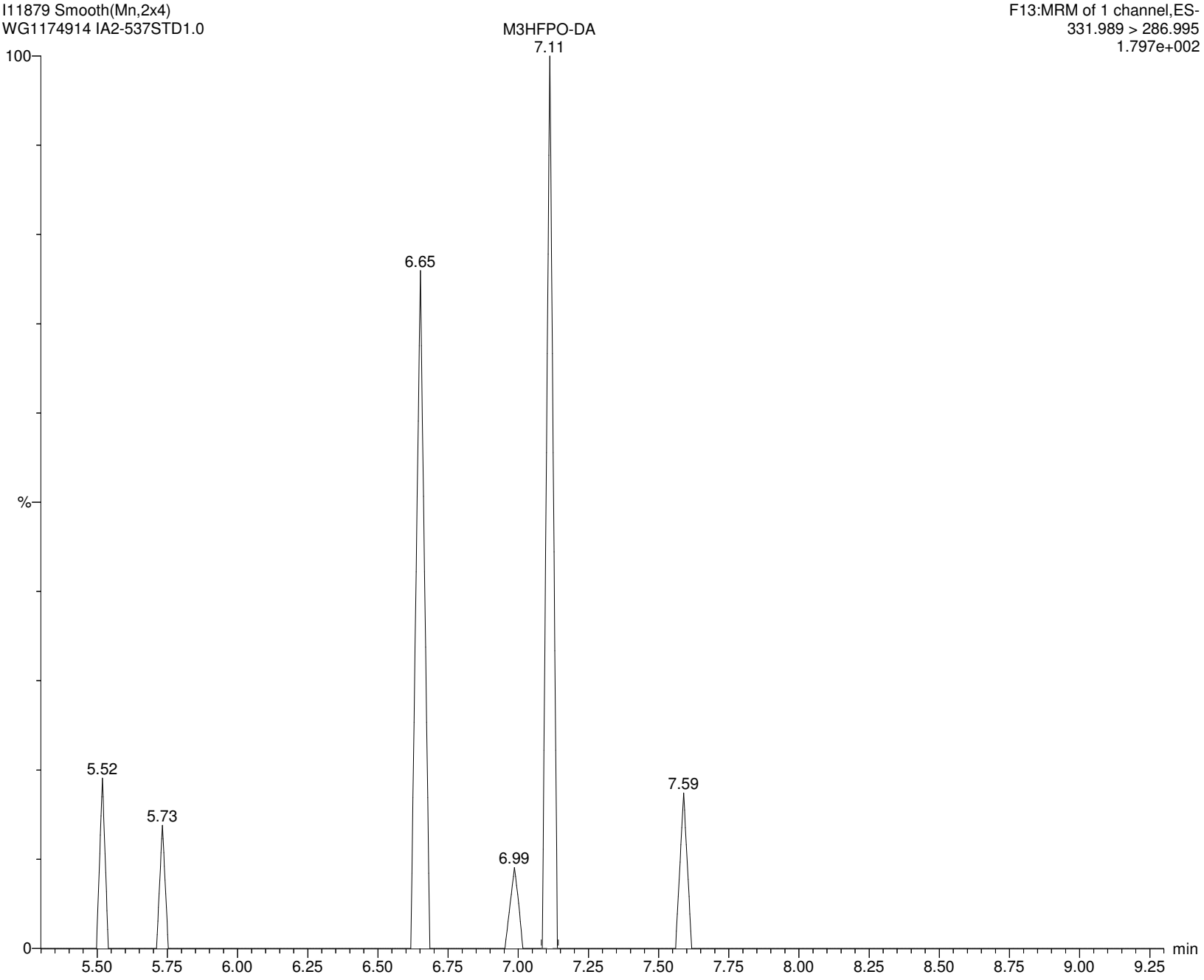

all concentration units in (ng/mL)

Alpha Analytical Inc.
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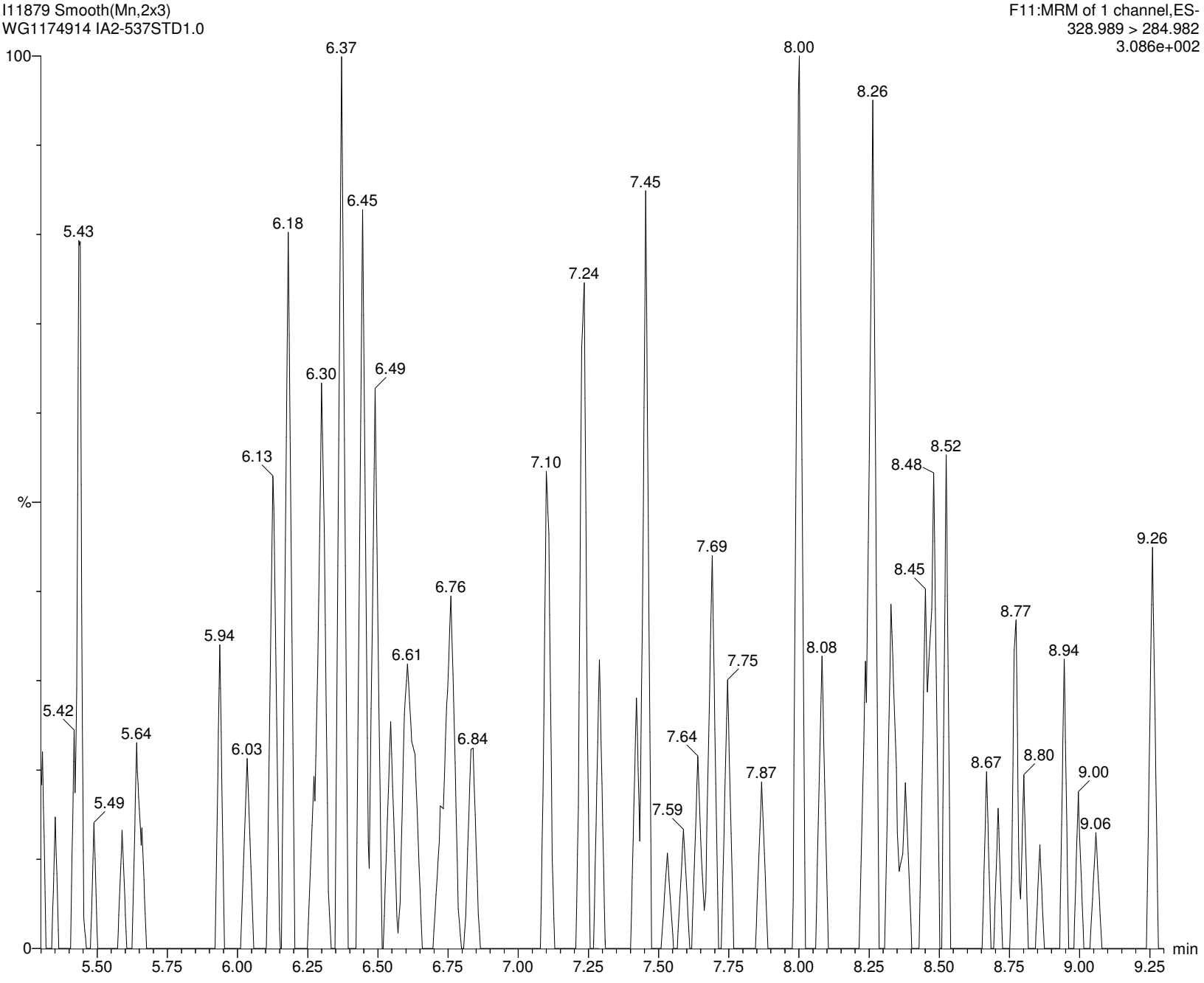

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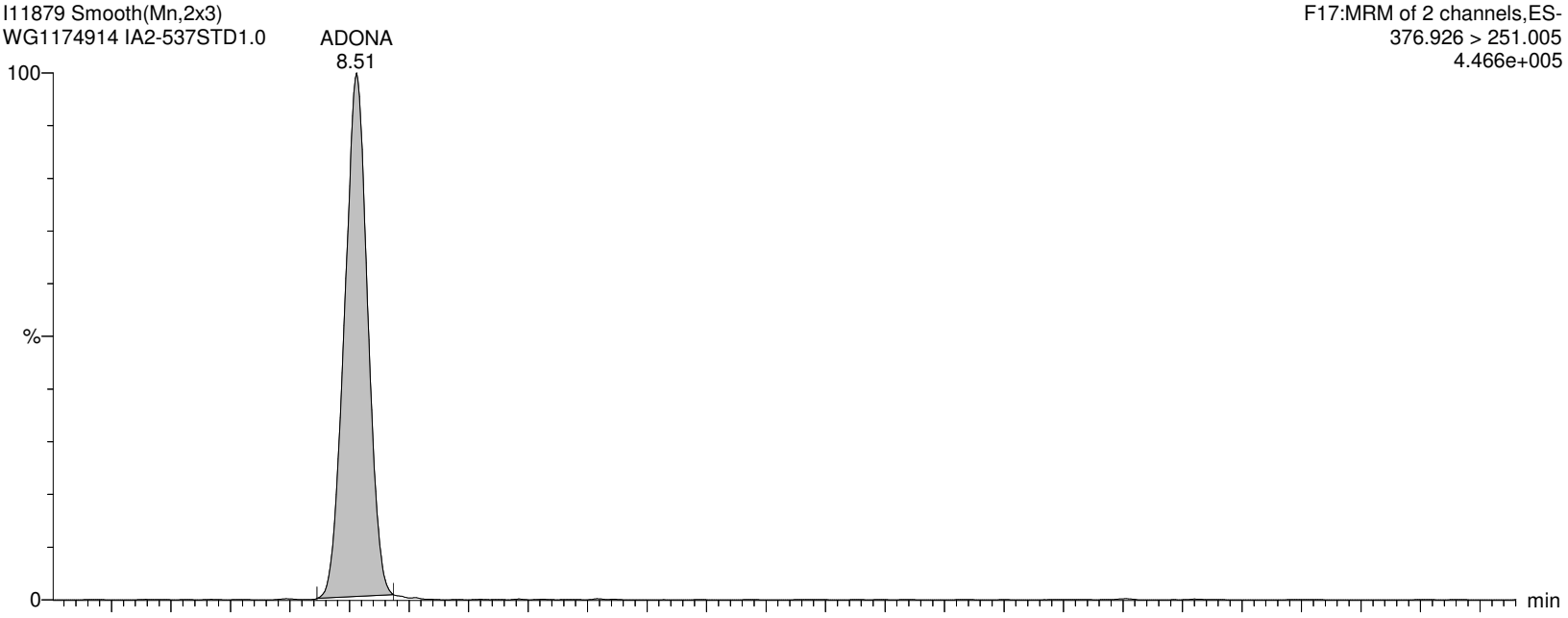

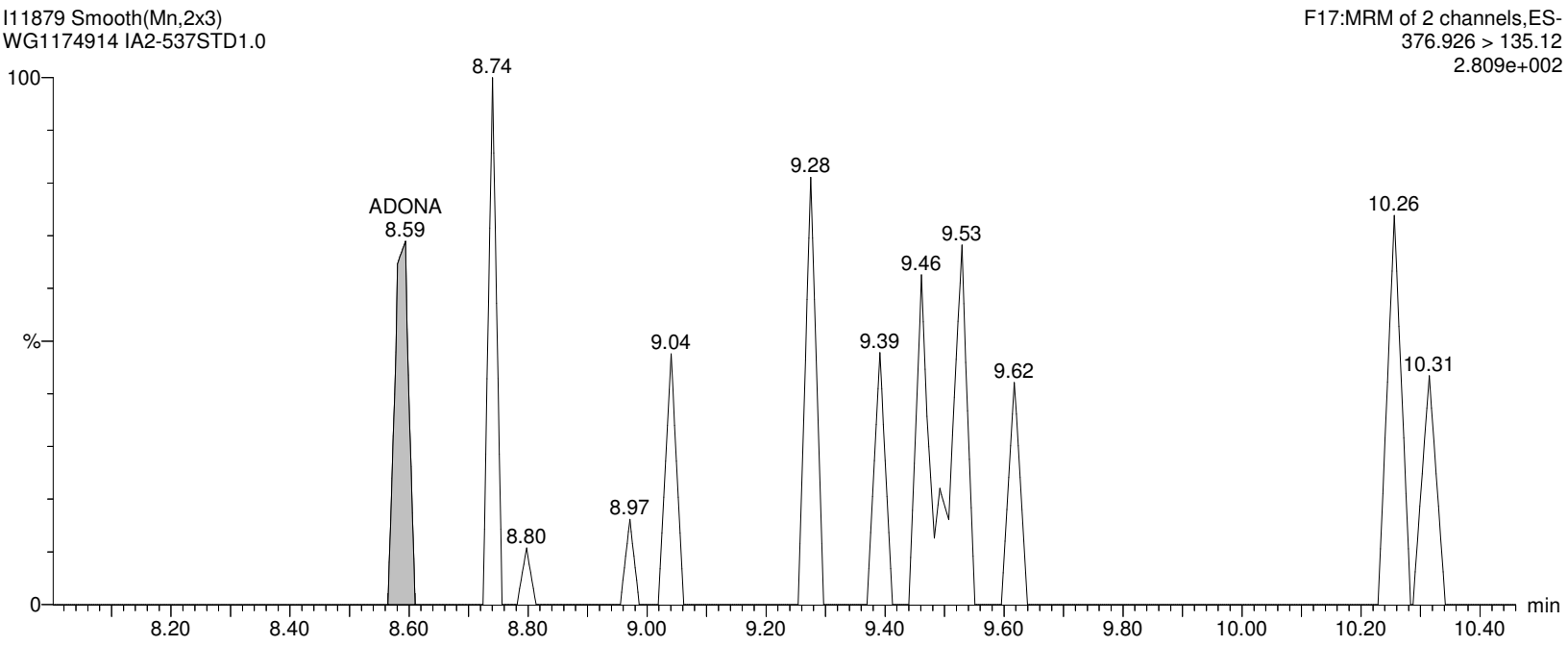

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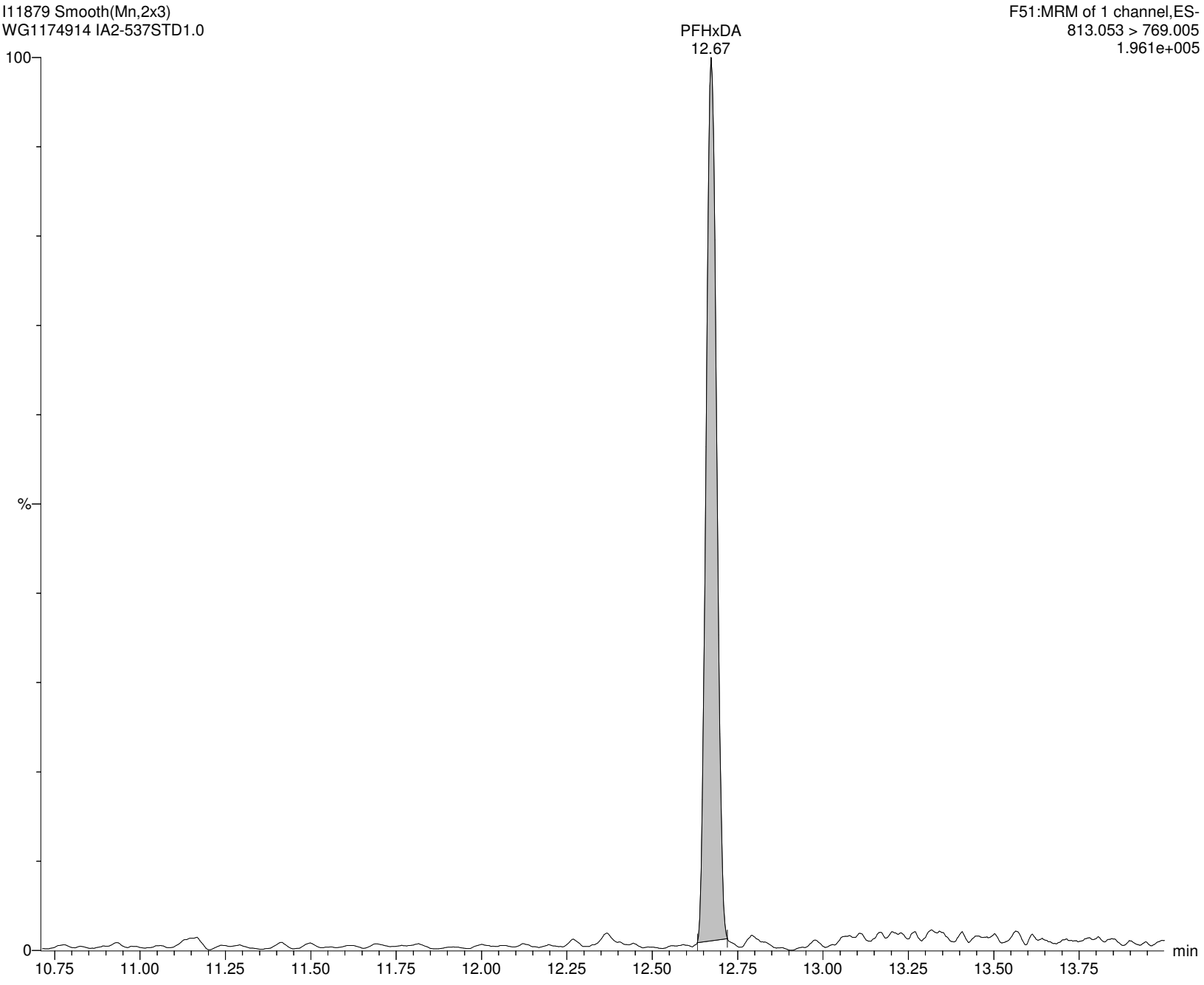

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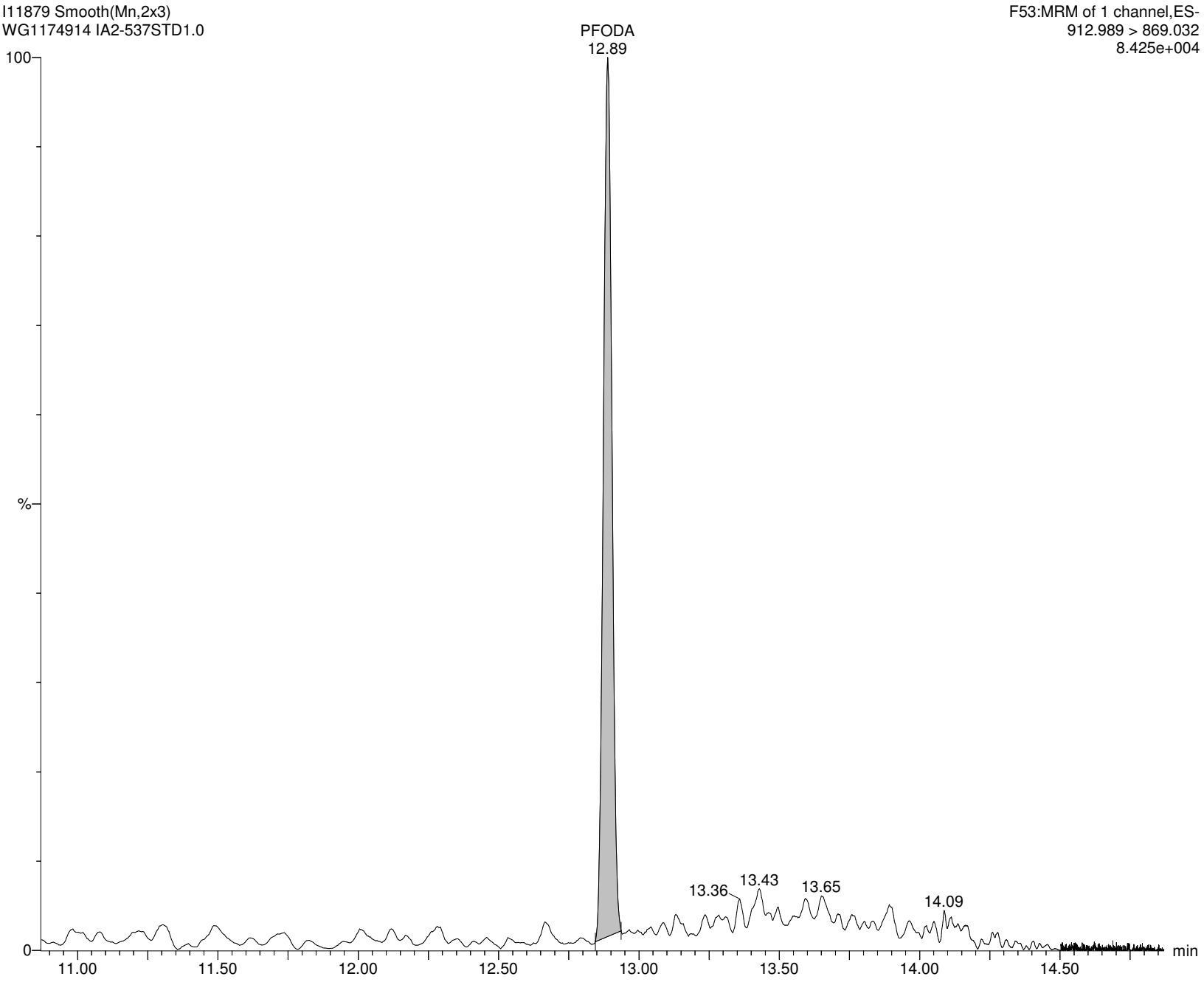

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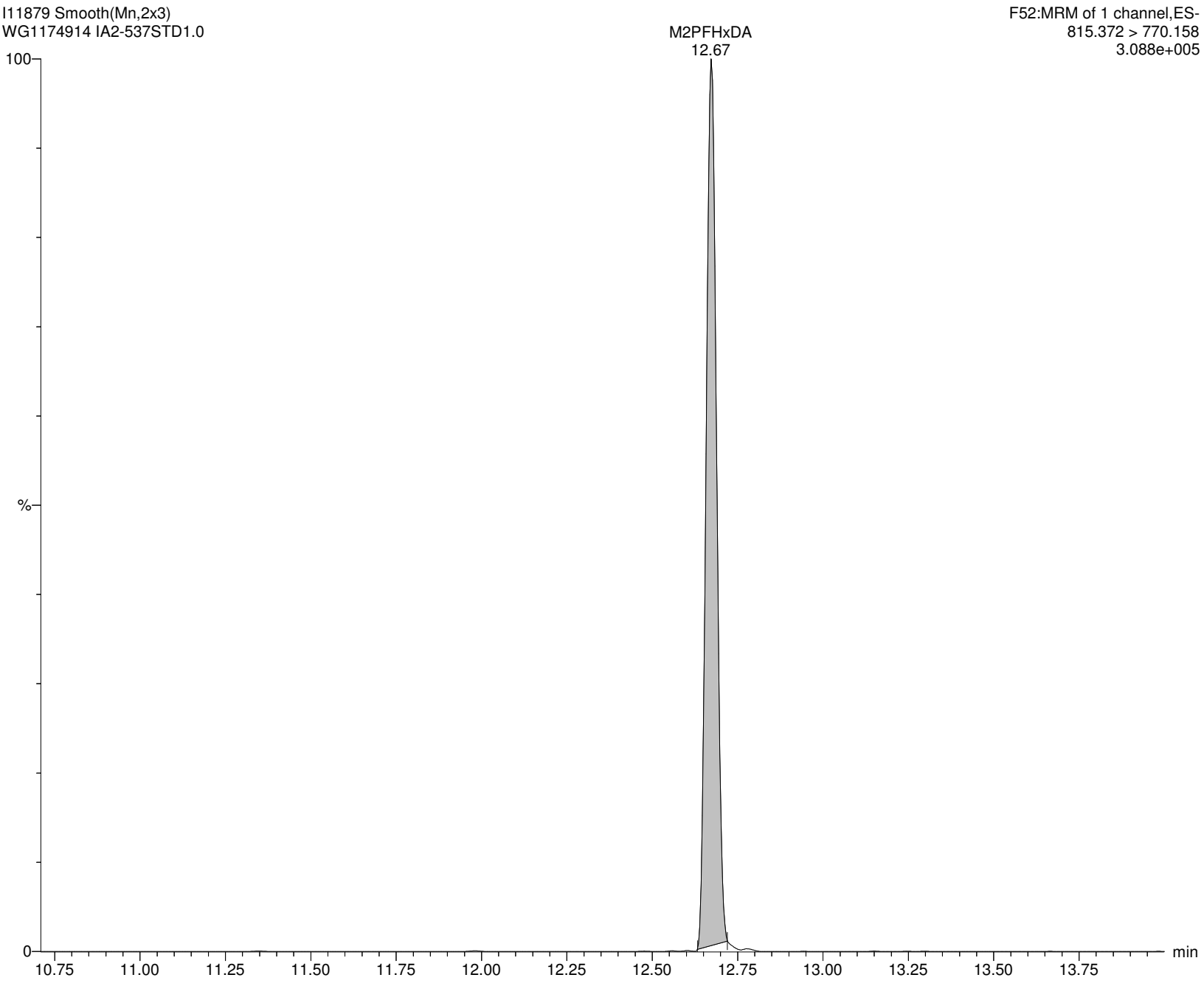

all concentration units in (ng/mL)

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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD10.0
Name: I11880
Date: 01-Nov-2018
Time: 17:35:32
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	91097		10.540		na	105.4
2	M3PFBA	INT STD	2.12	215.926 > 172.122	105967		11.448		na	114.5
3	MPFBA	INT STD	2.12	216.926 > 172.137	98877		9.823		na	98.2
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	133380		10.691		na	106.9
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	132380		10.191		na	101.9
6	PFBS	375-73-5	5.78	298.989 > 80.295	19347		9.129		na	103.2
7	M3PFBS	INT STD	5.78	301.989 > 80.254	23904		9.470		na	94.7
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	12319		10.031	1.93	YES	107.3
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	12450		7.952		na	79.5
10	PFHxA	307-24-4	7.04	312.989 > 269.028	165647		10.707	19.09	NO	107.1
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	159418		9.634		na	96.3
12	PFPeS	2706-91-4	7.37	348.926 > 80.251	22323		9.444	2.02	NO	100.5
13	PFHpA	375-85-9	8.33	362.926 > 319.014	207869		10.900	5.37	NO	109.0
14	M4PFHpA	INT STD	8.33	366.926 > 321.979	193708		9.955		na	99.6
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	3523		1.584	2.13	YES	93.2
16	L-PFHxS	355-46-4	8.49	398.926 > 80.295	14999		7.786	1.39	NO	105.2
17	PFHxS	355-46-4		398.926 > 80.295	18522		9.370		na	
18	M3PFHxS	INT STD	8.49	401.926 > 80.317	13662		9.745		na	97.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	193919		10.858	9.21	NO	108.6
21	M2PFOA	INT STD	9.28	415.032 > 369.968	229697		12.165		na	121.7
22	PFOA	335-67-1		412.989 > 368.9	193919		10.858		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	183052		9.882		na	98.8
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	10664		10.281	1.00	NO	108.2
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	10631		8.180		na	81.8
26	PFHpS	375-92-8	9.37	448.926 > 80.257	12088		10.450	0.92	YES	110.0
27	PFNA	375-95-1	10.02	462.989 > 418.931	167053		10.852	4.15	NO	108.5
28	M9PFNA	INT STD	10.02	472.053 > 426.947	184310		9.976		na	99.8
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	4699		1.716	4.16	YES	85.8
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	14790		7.579	1.68	YES	103.8
31	PFOS	1763-23-1		498.989 > 80.294	19489		9.295		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	20249		12.500		na	125.0
33	M8PFOS	INT STD	10.07	507.053 > 80.294	18683		9.894		na	98.9
34	PFDA	335-76-2	10.64	513.053 > 468.906	156416		10.384	5.96	NO	103.8
35	M2PFDA	INT STD	10.64	515.053 > 469.934	187296		12.599		na	126.0
36	M6PFDA	INT STD	10.64	519.053 > 473.931	169815		10.042		na	100.4
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	8319		10.362		na	107.9
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	6679		8.752		na	87.5
39	PFNS	68259-12-1	10.67	548.989 > 80.249	16061		10.083	1.30	NO	105.0

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

ID: IA2-537STD10.0
Name: I11880
Date: 01-Nov-2018
Time: 17:35:32
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	14853		8.147		na	81.5
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	17517		11.724		na	117.2
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	162012		11.092	7.57	NO	110.9
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	147006		10.386		na	103.9
44	PFDS	335-77-3	11.19	598.926 > 80.314	12602		9.735	1.09	NO	100.9
45	FOSA	754-91-6	11.13	497.989 > 78.245	59089		10.537		na	105.4
46	M8FOSA	INT STD	11.13	506.053 > 78.286	57332		9.503		na	95.0
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	15512		8.821		na	88.2
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	16511		10.410	2.74	YES	104.1
49	PFDoA	307-55-1	11.64	612.989 > 568.967	154815		10.964	13.43	NO	109.6
50	MPFDOA	INT STD	11.64	614.989 > 569.92	151419		9.521		na	95.2
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	129208		10.882	11.96	NO	108.8
52	PFTA	376-06-7	12.37	713.053 > 668.976	106578		10.980	9.24	NO	109.8
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	115608		9.814		na	98.1
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	256319		10.583	22337....	NO	111.8
57	PFHxDA		12.68	813.053 > 769.005	69774		10.074		na	100.7
58	PFODA		12.90	912.989 > 869.032	47477		11.405		na	114.1
59	M2PFHxDA		12.68	815.372 > 770.158	11484		9.372		na	93.7

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Date: 01-Nov-2018
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Vial: 2:A,5
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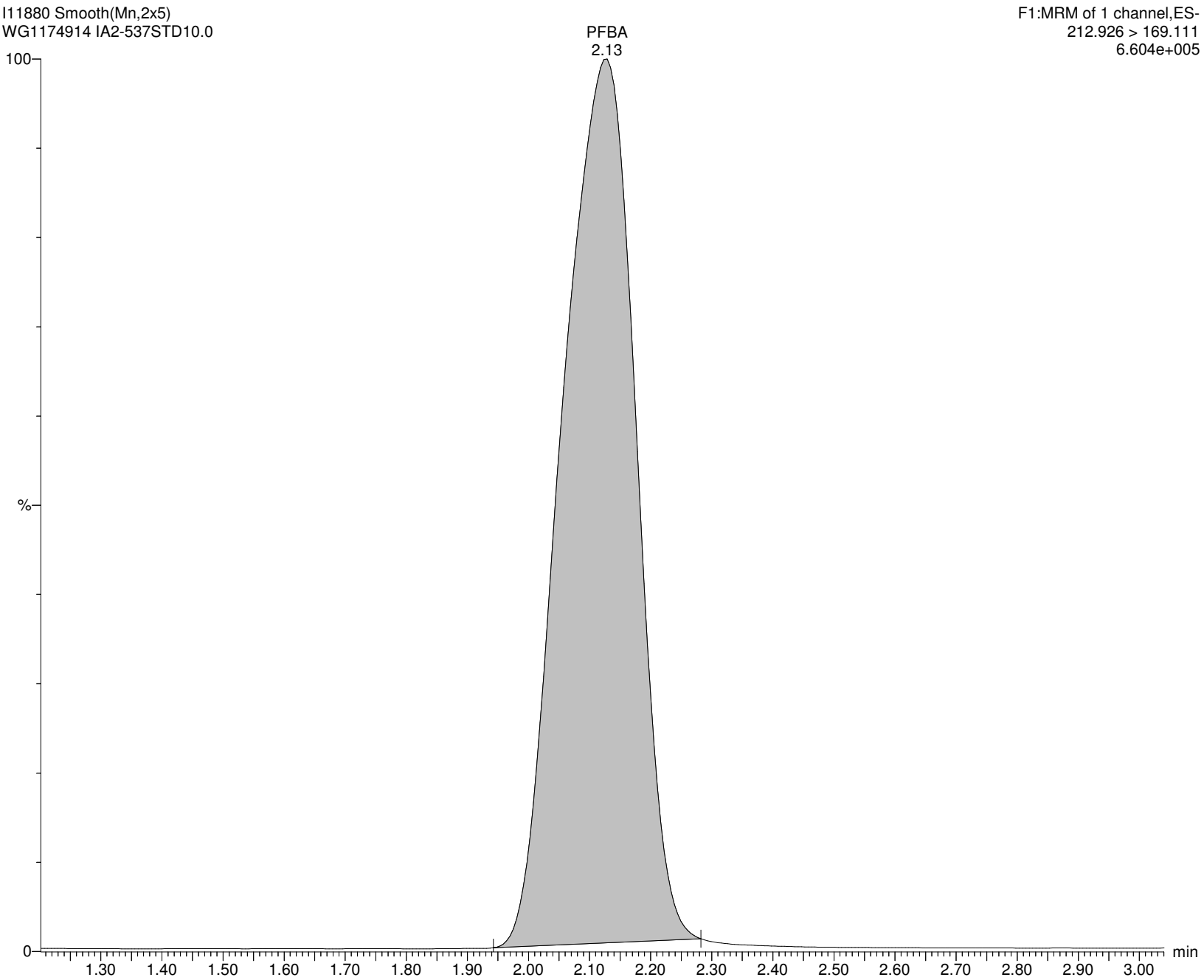

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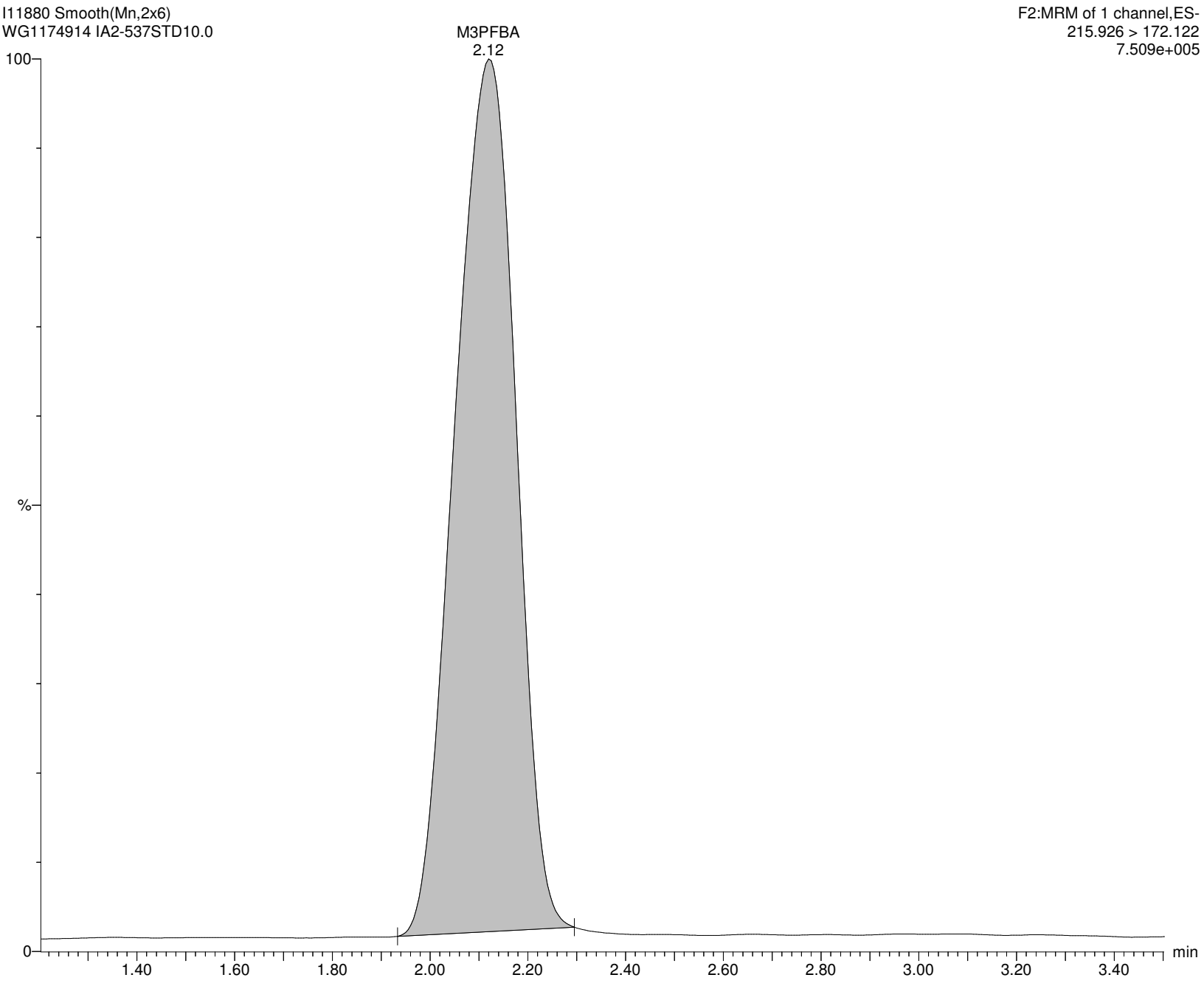

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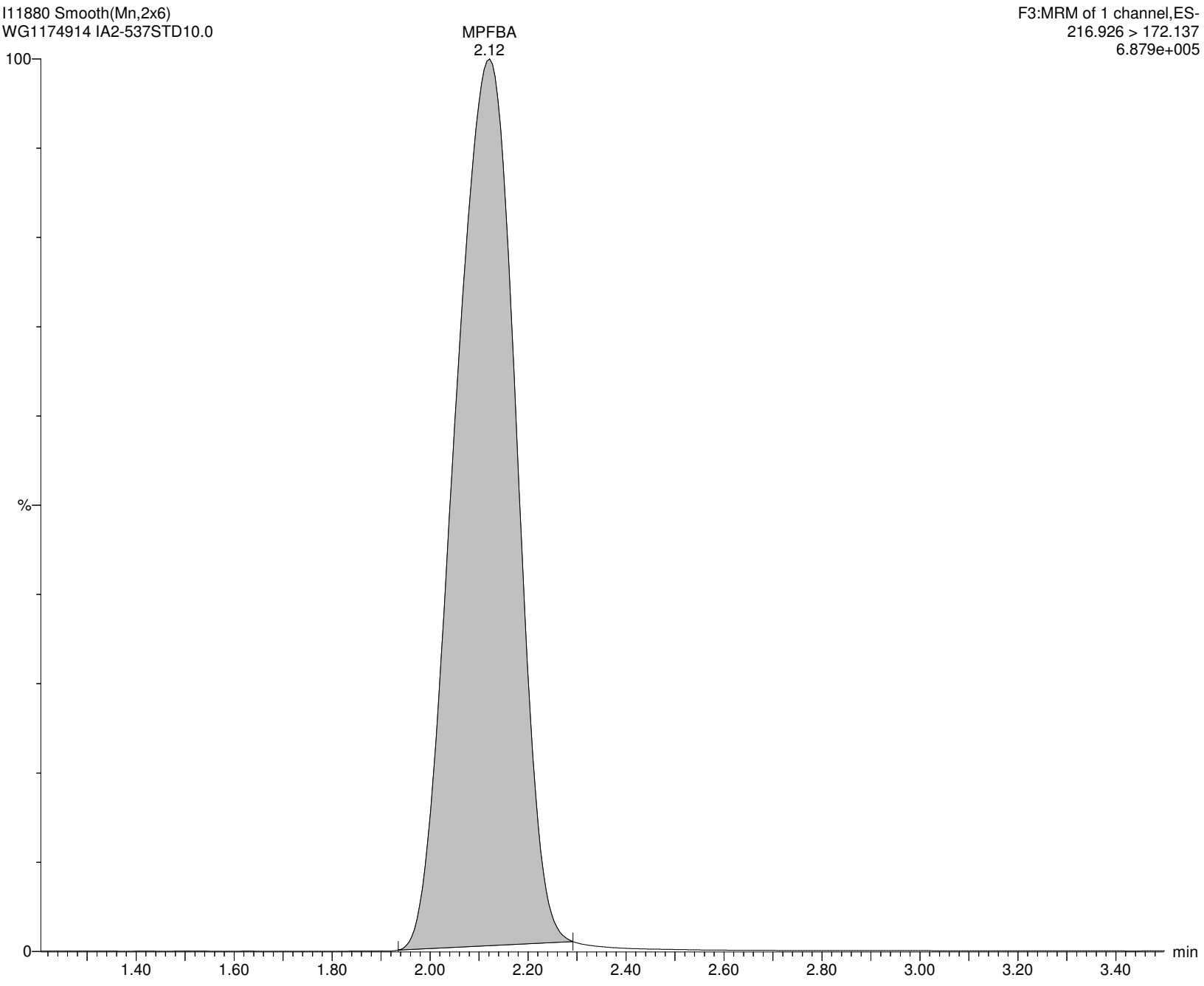

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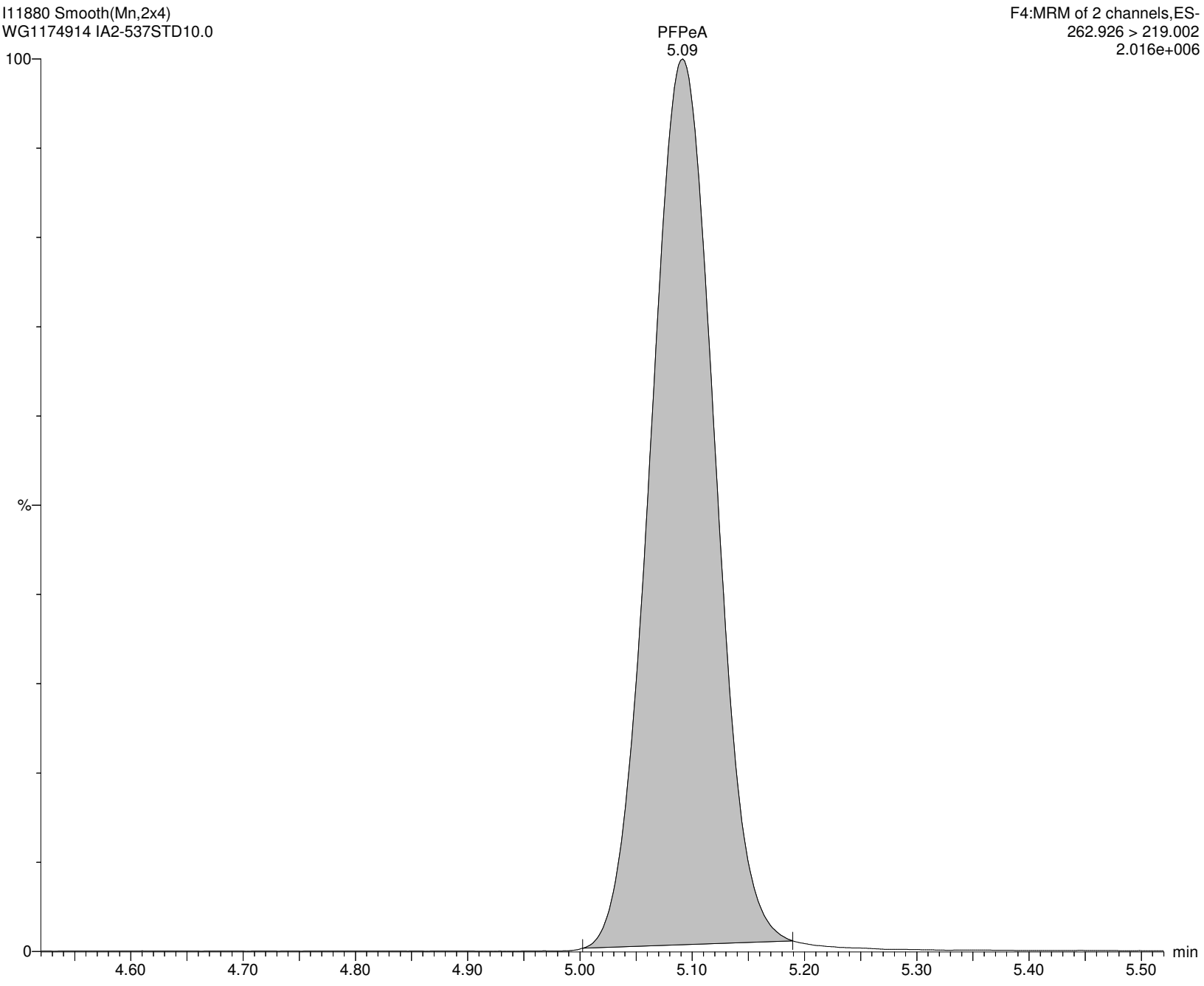

all concentration units in (ng/mL)

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Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

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ID: IA2-537STD10.0
Date: 01-Nov-2018
Time: 17:35:32
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
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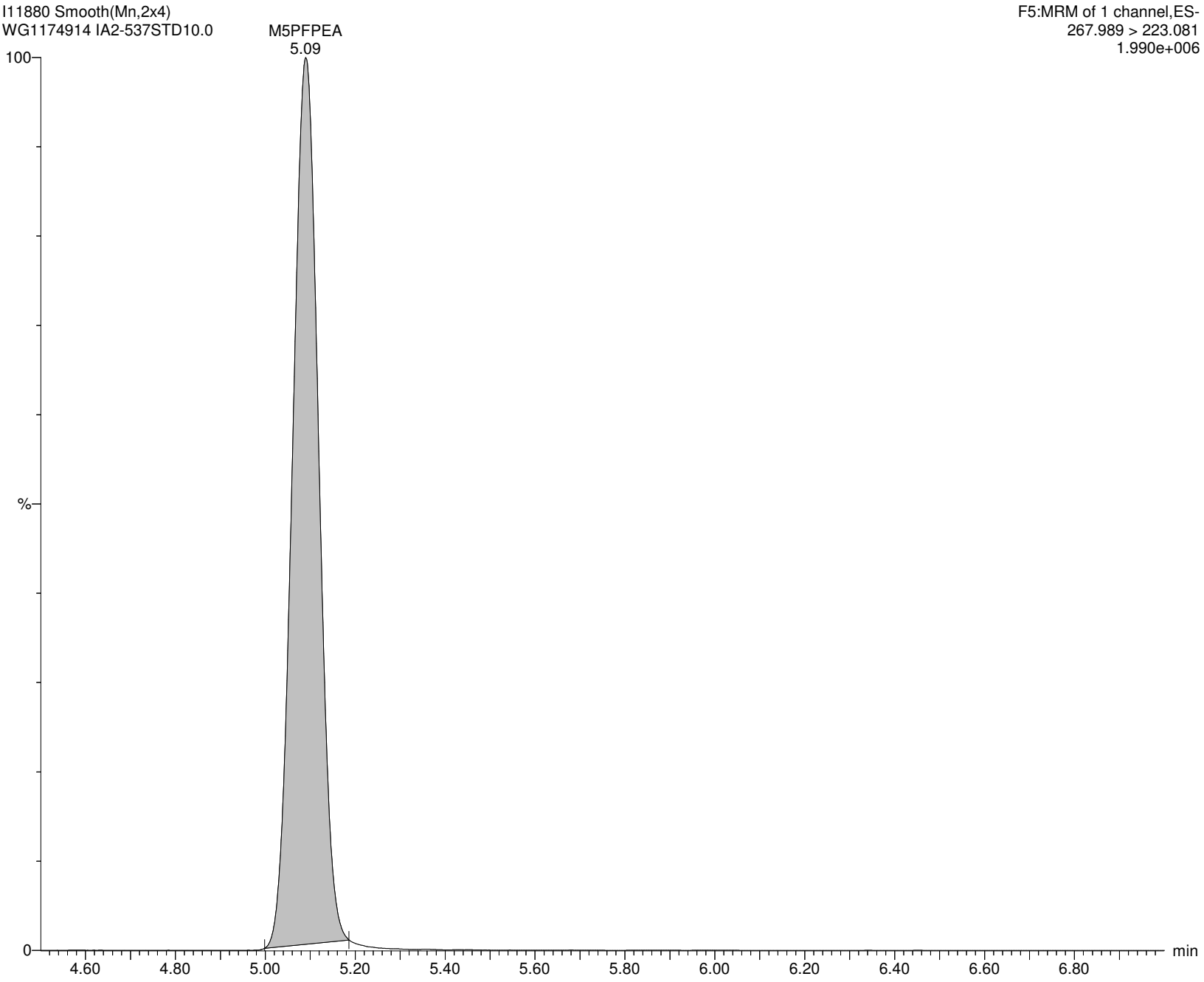

all concentration units in (ng/mL)

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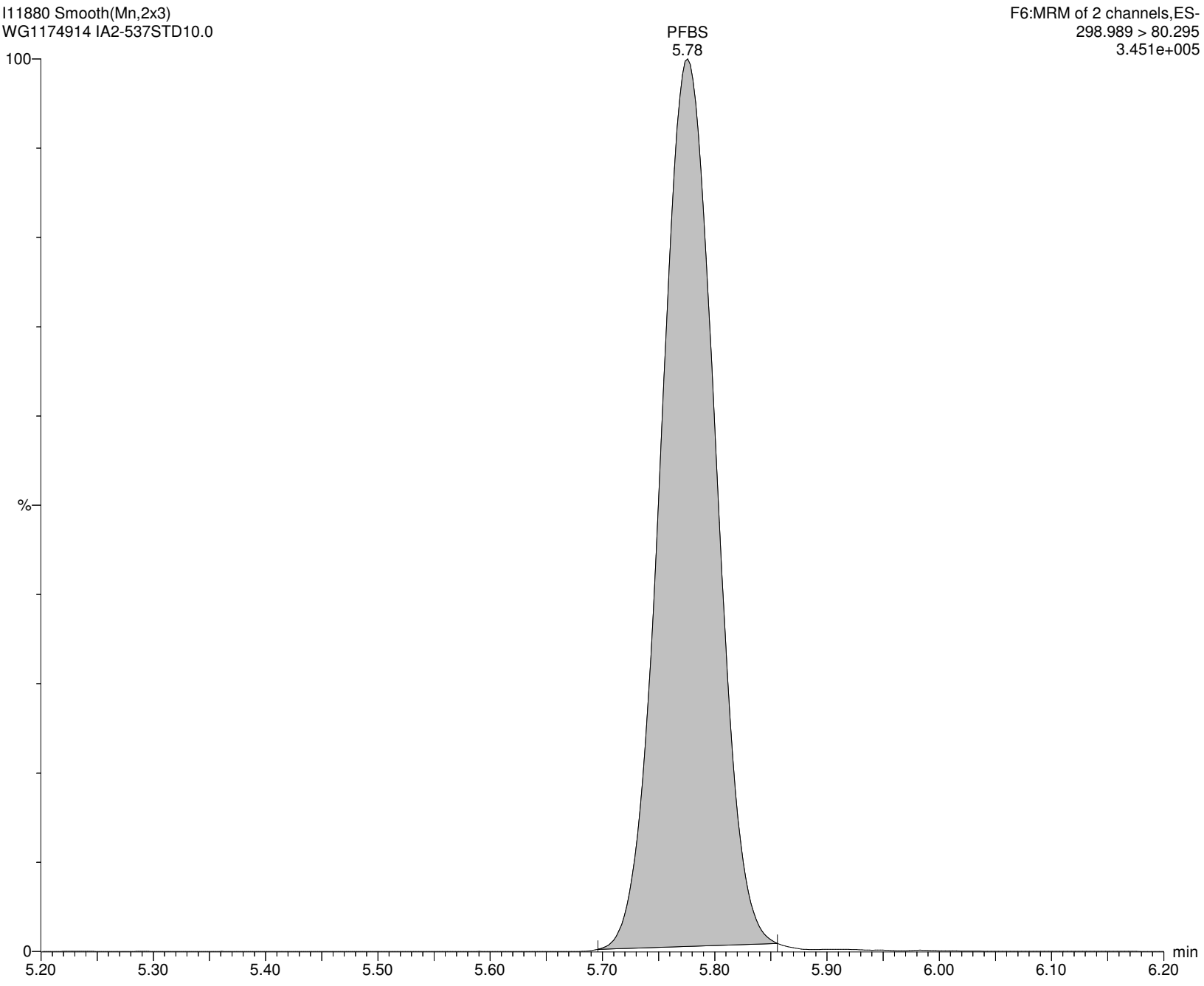

all concentration units in (ng/mL)

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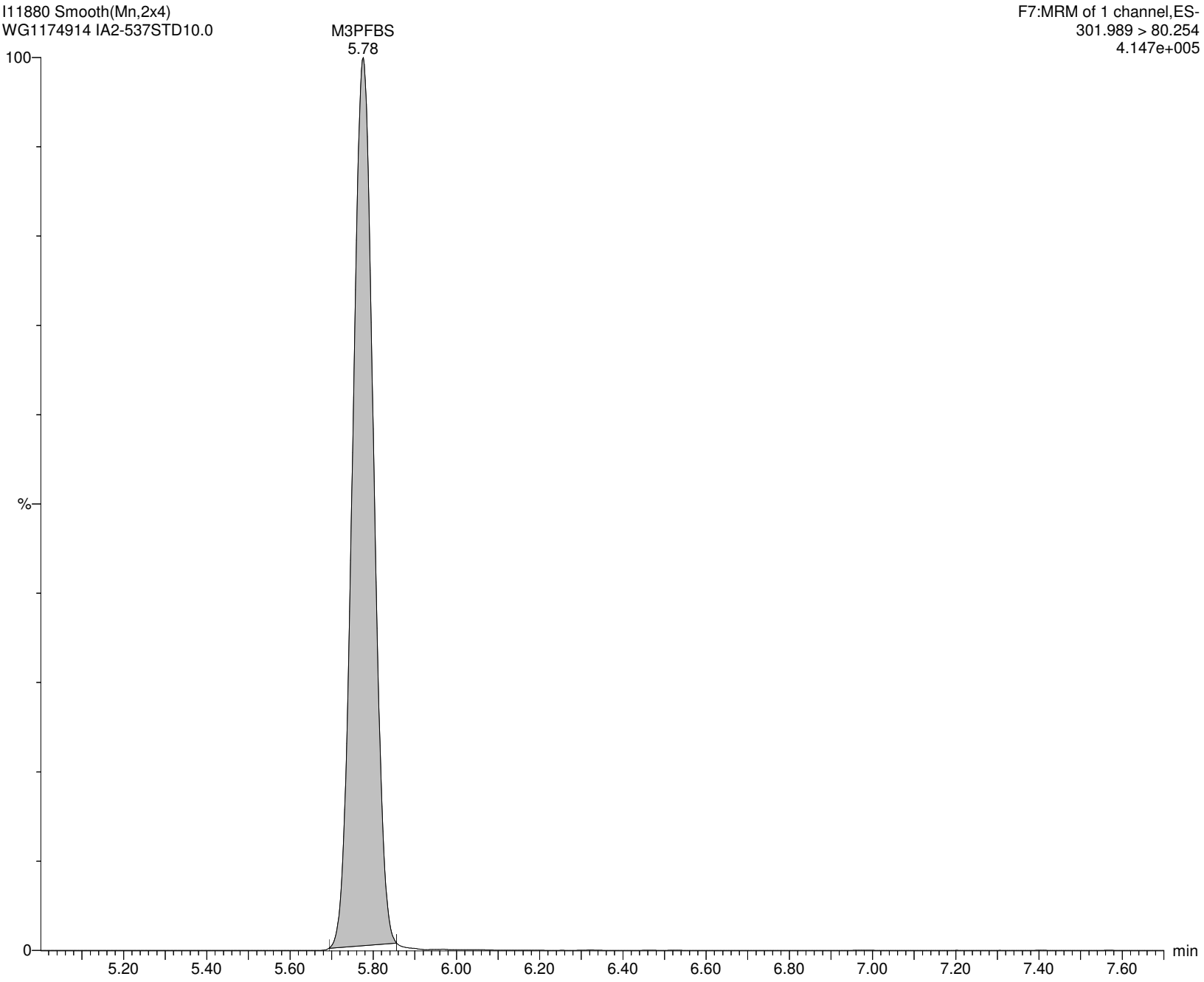

all concentration units in (ng/mL)

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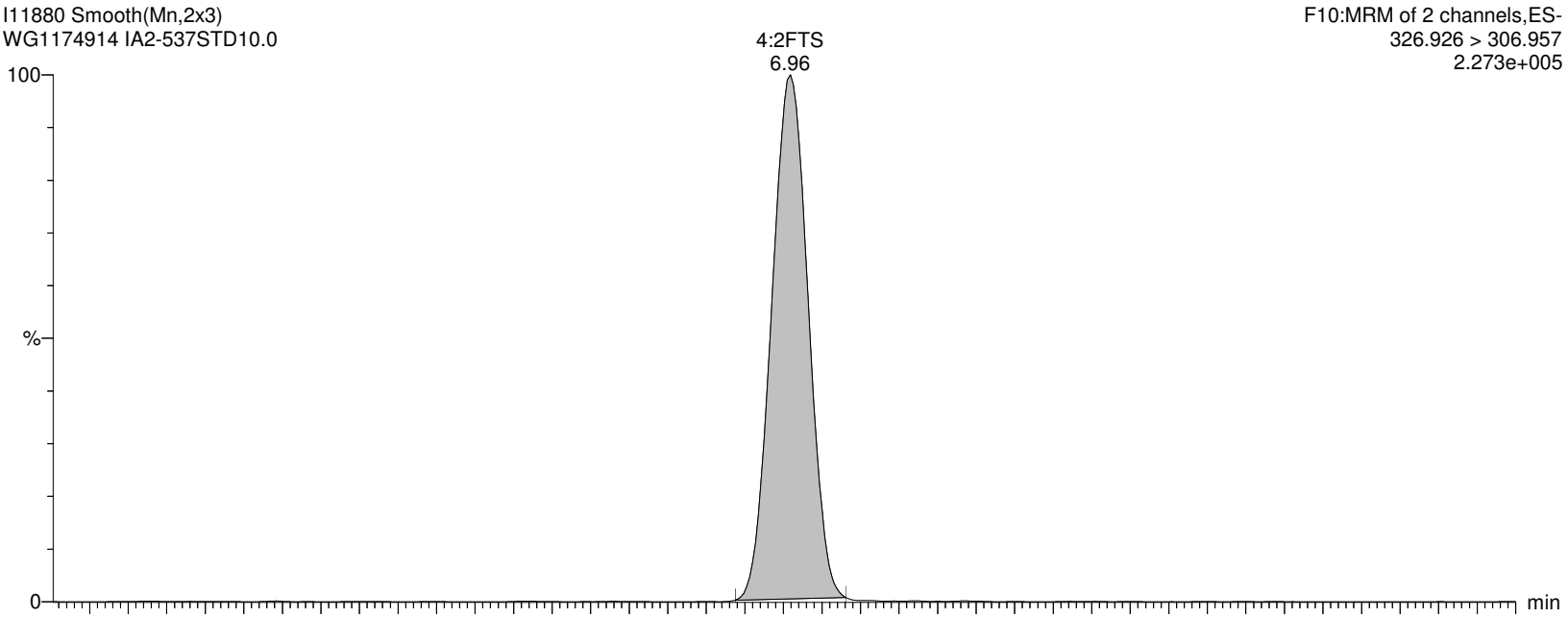

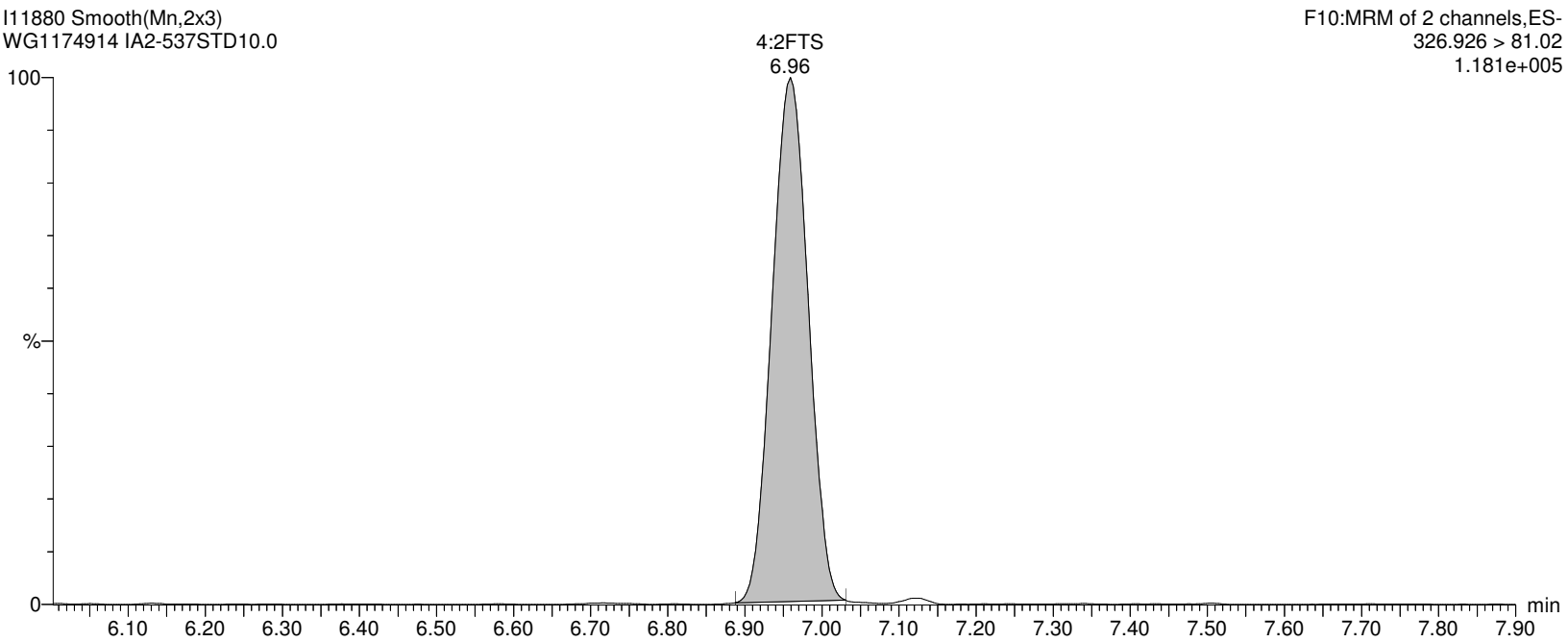

all concentration units in (ng/mL)

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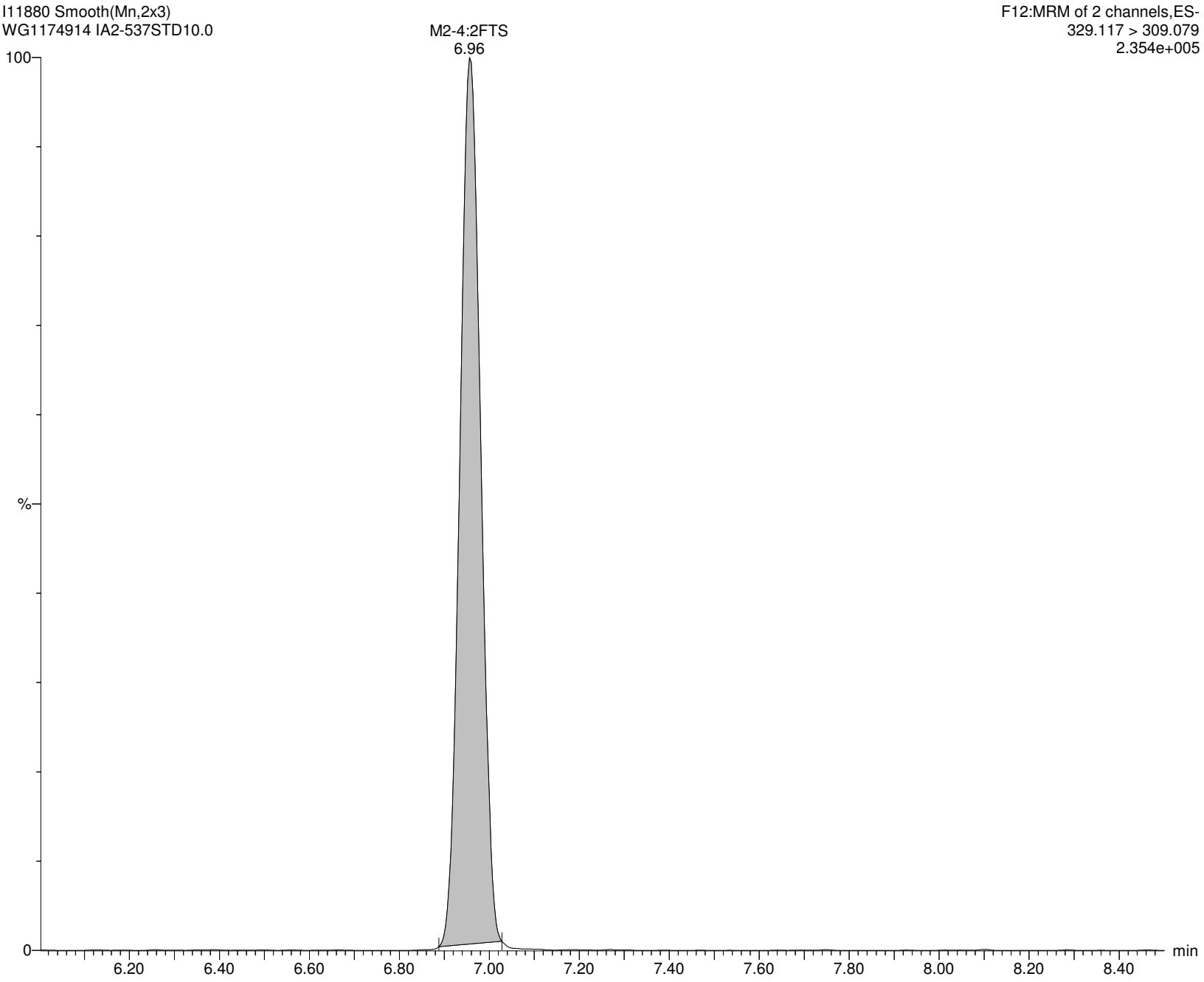

all concentration units in (ng/mL)

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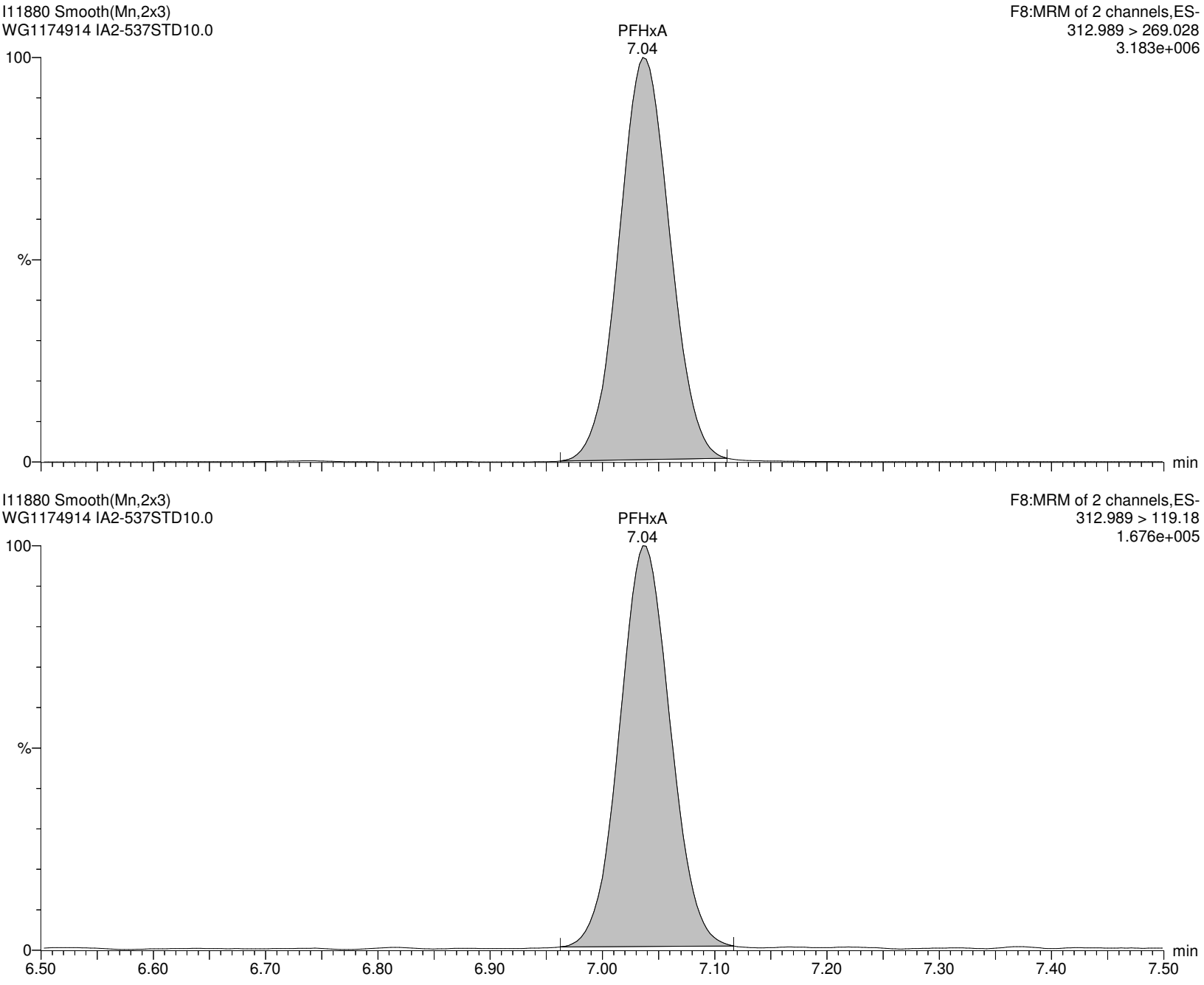

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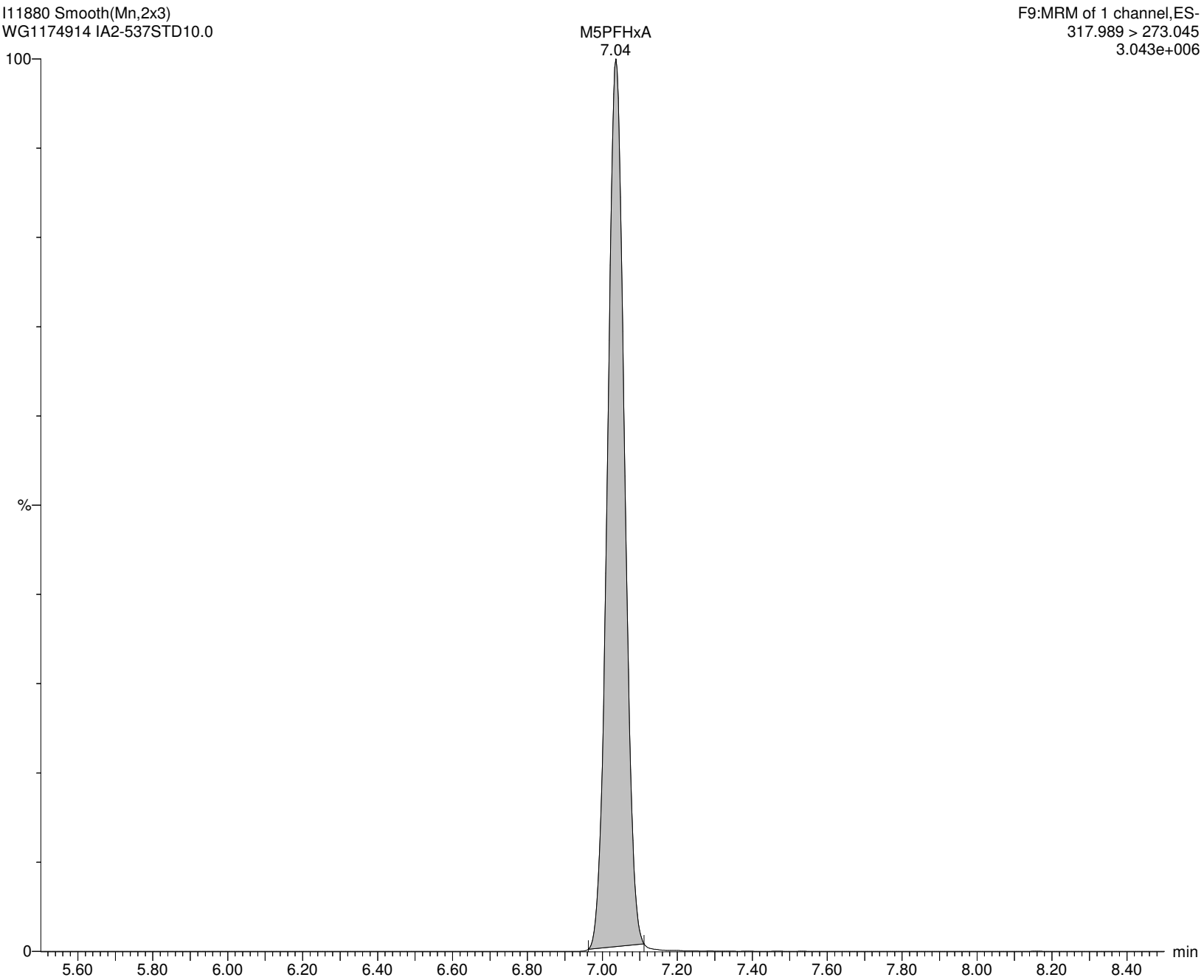

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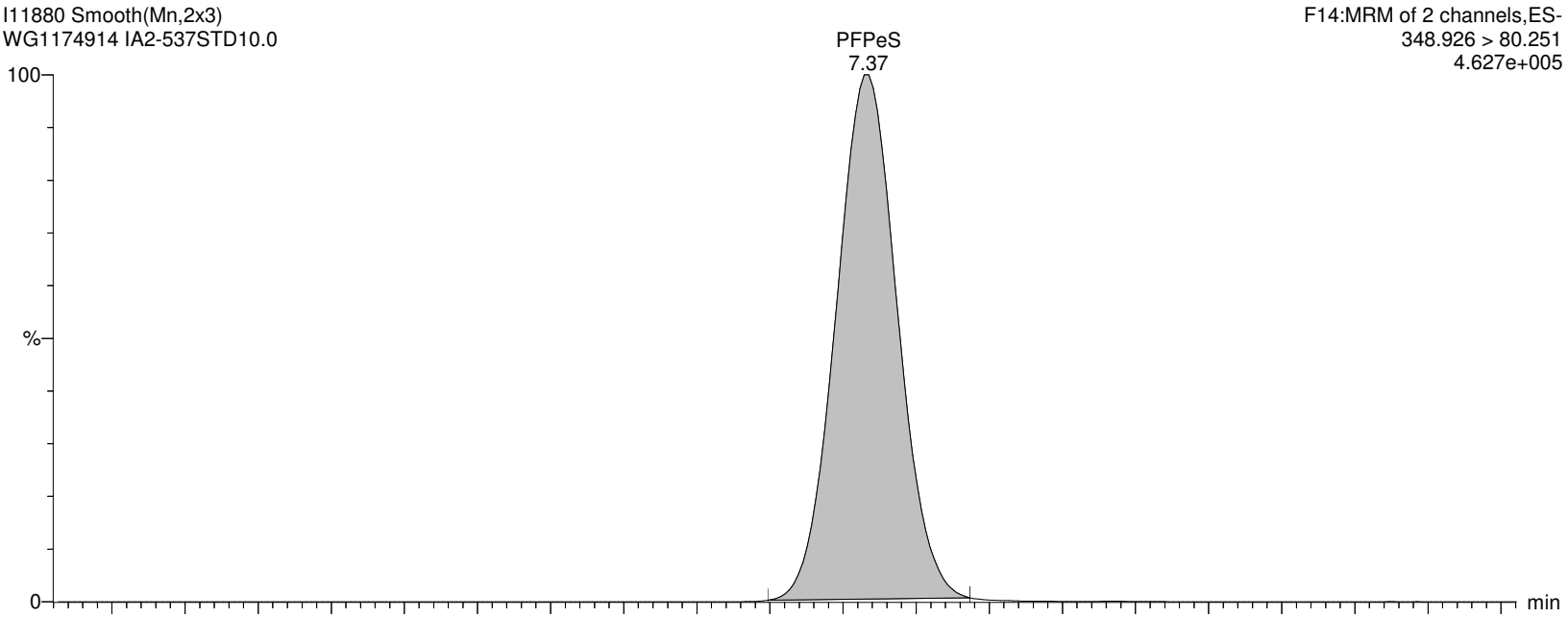

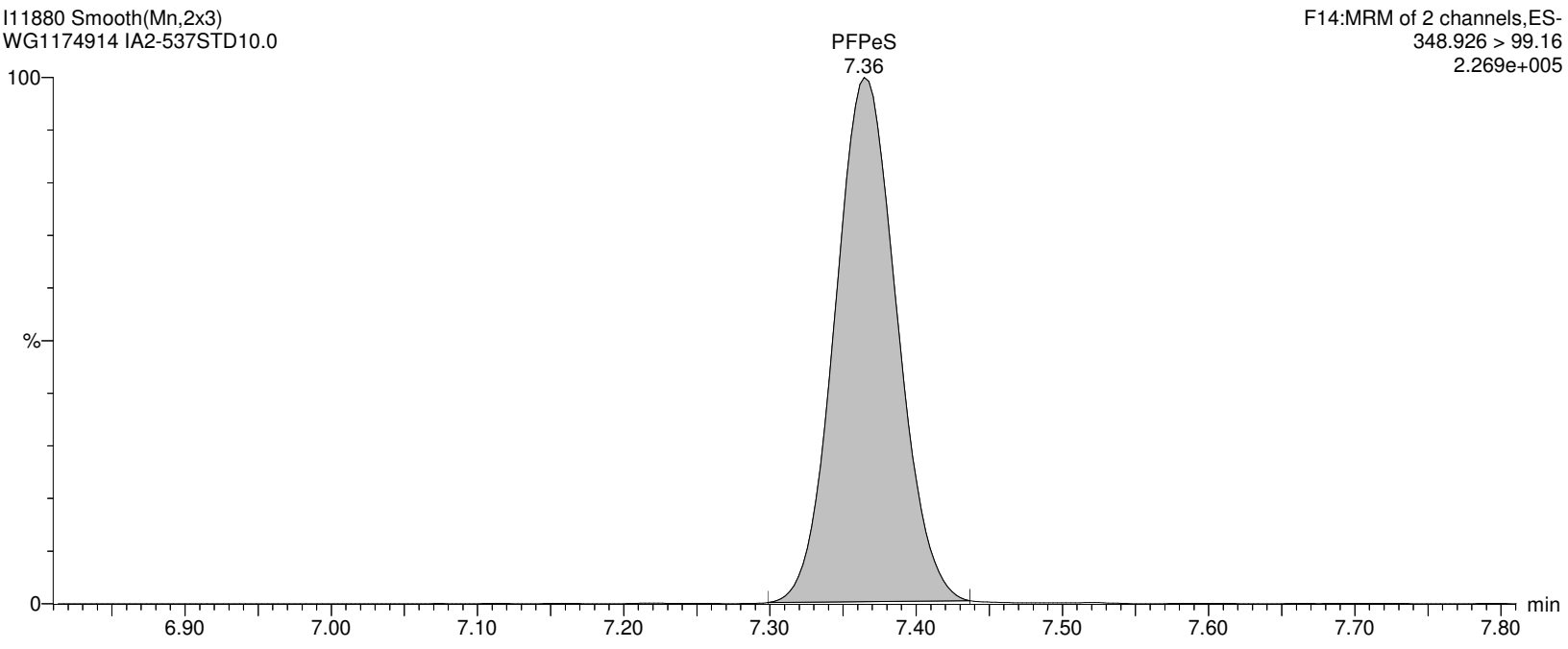

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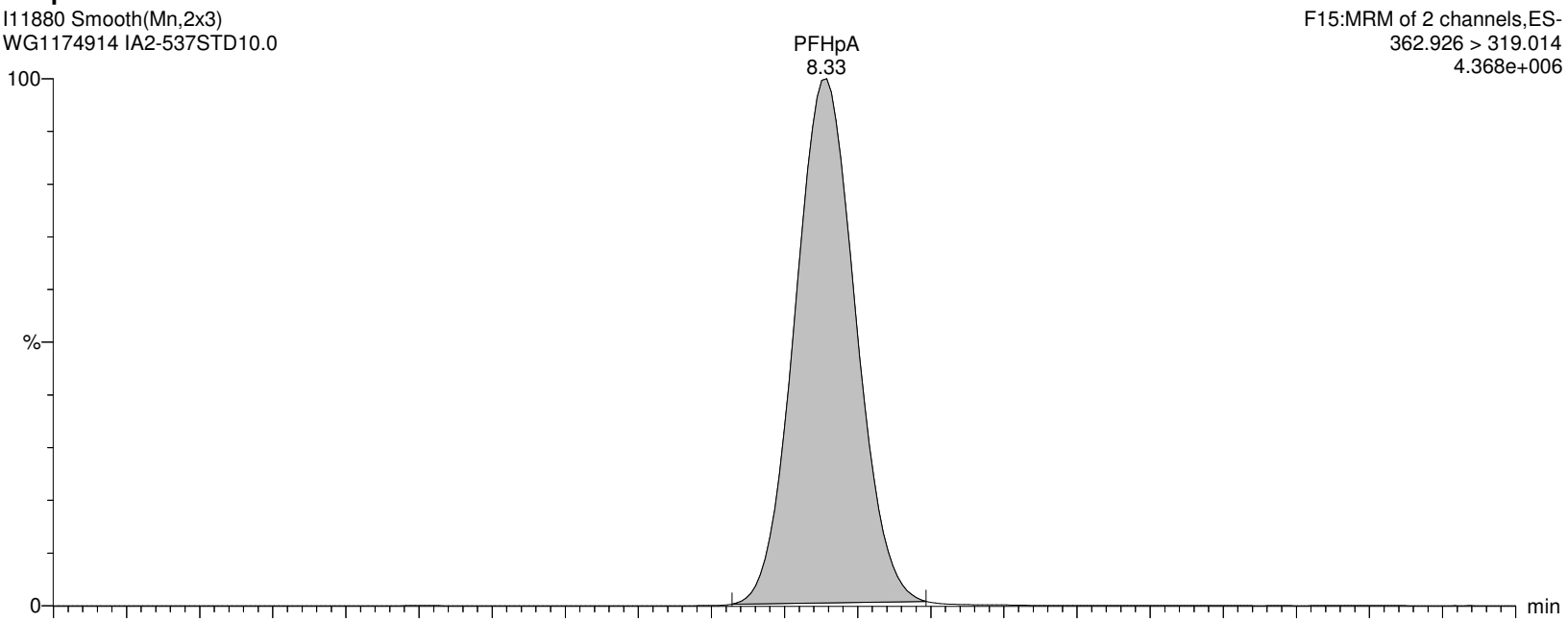

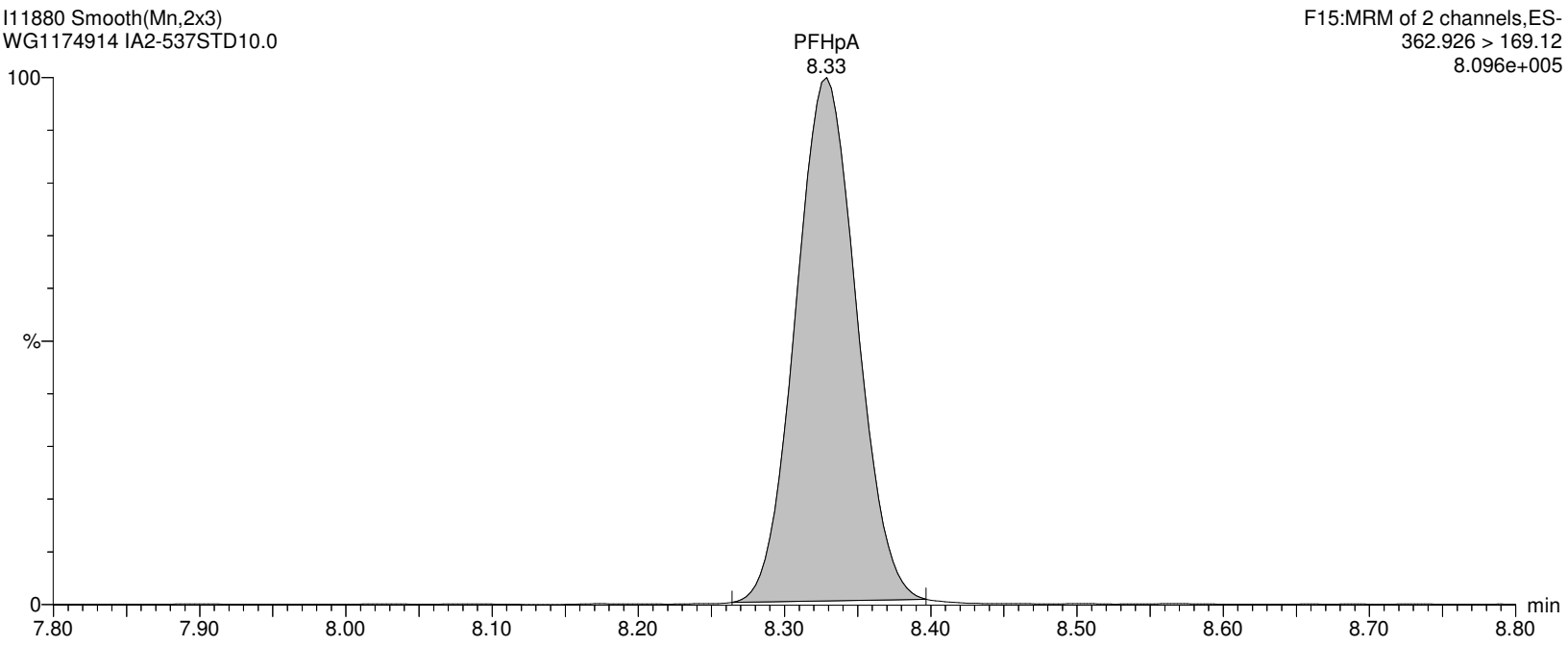

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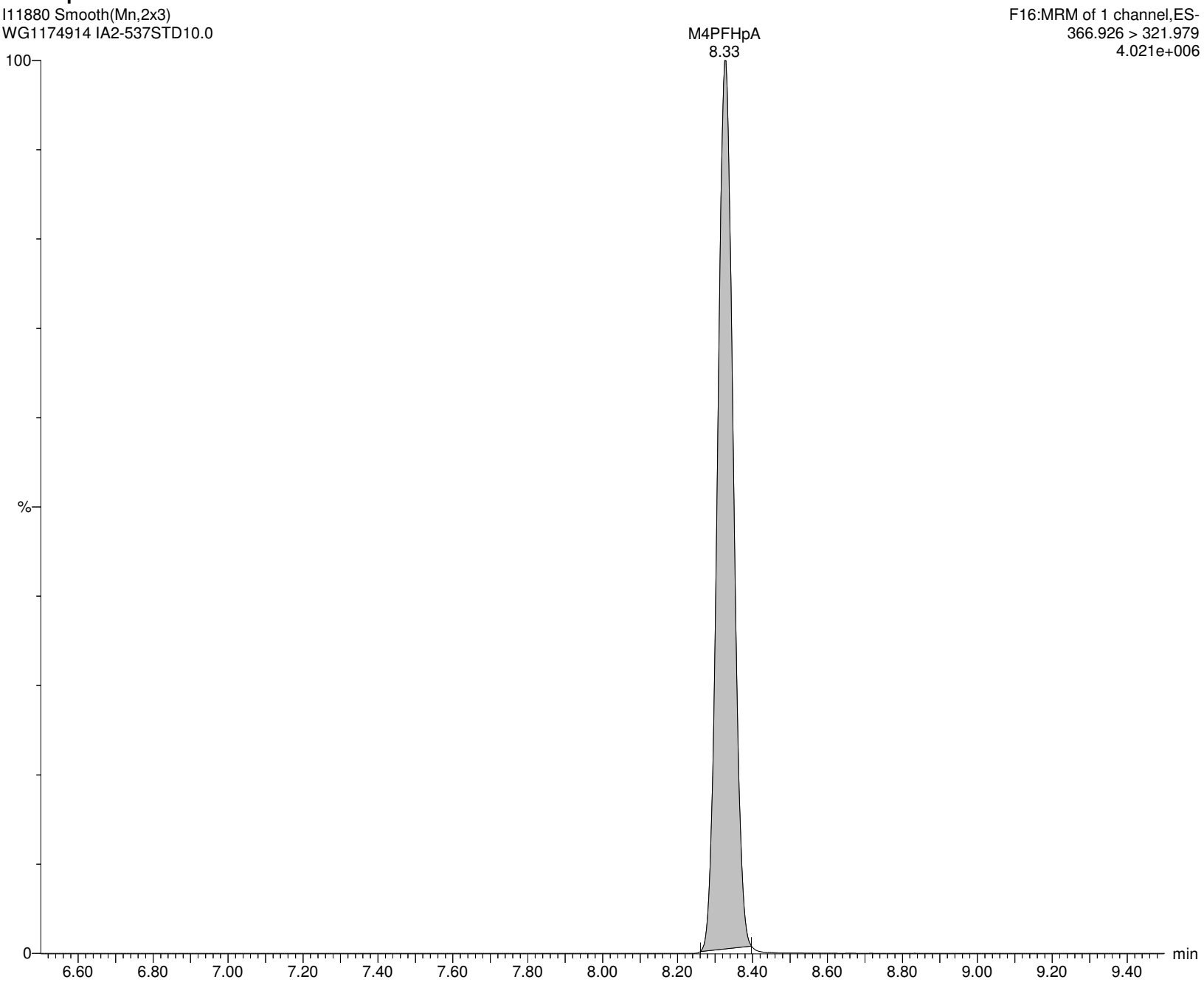

all concentration units in (ng/mL)

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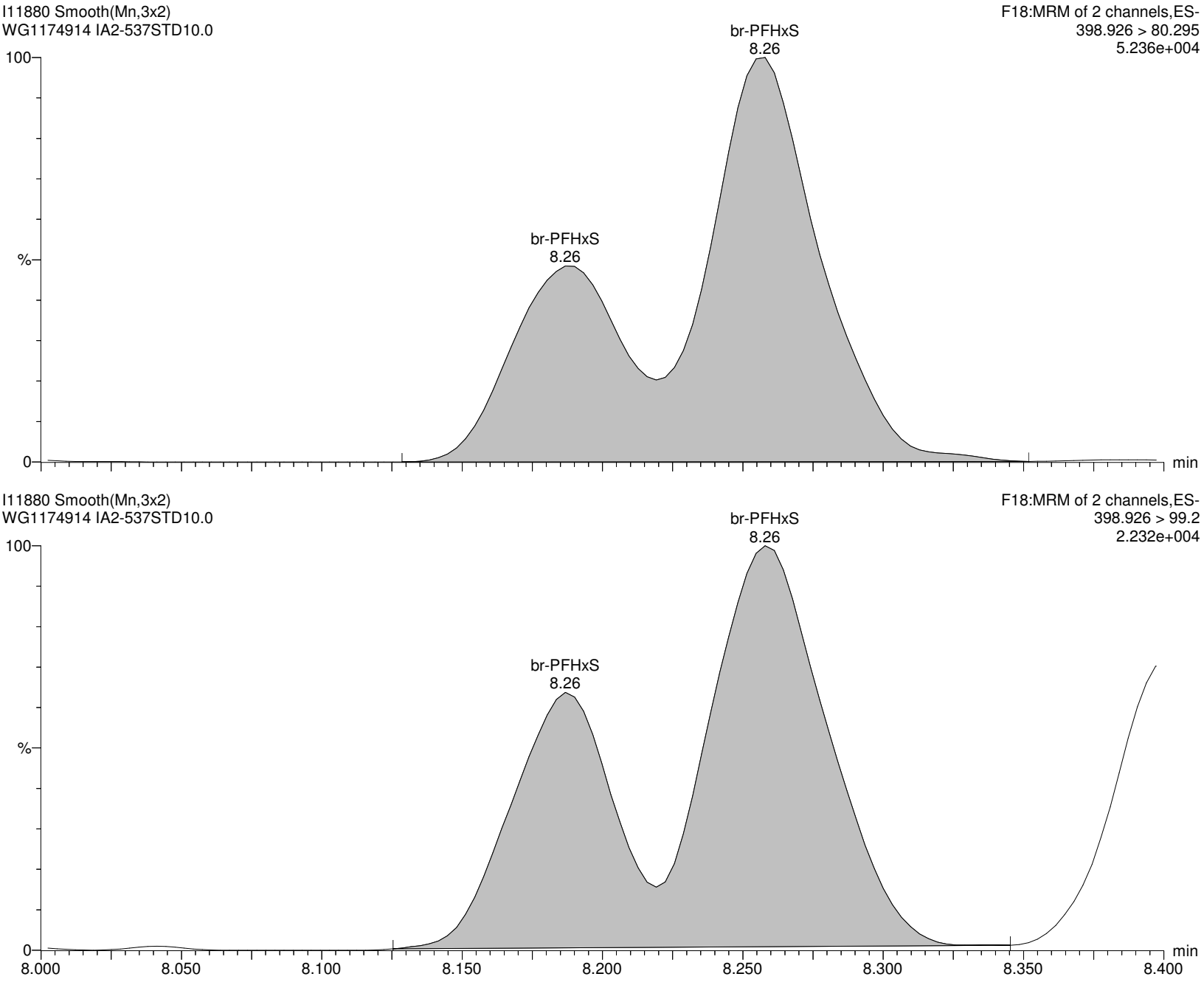

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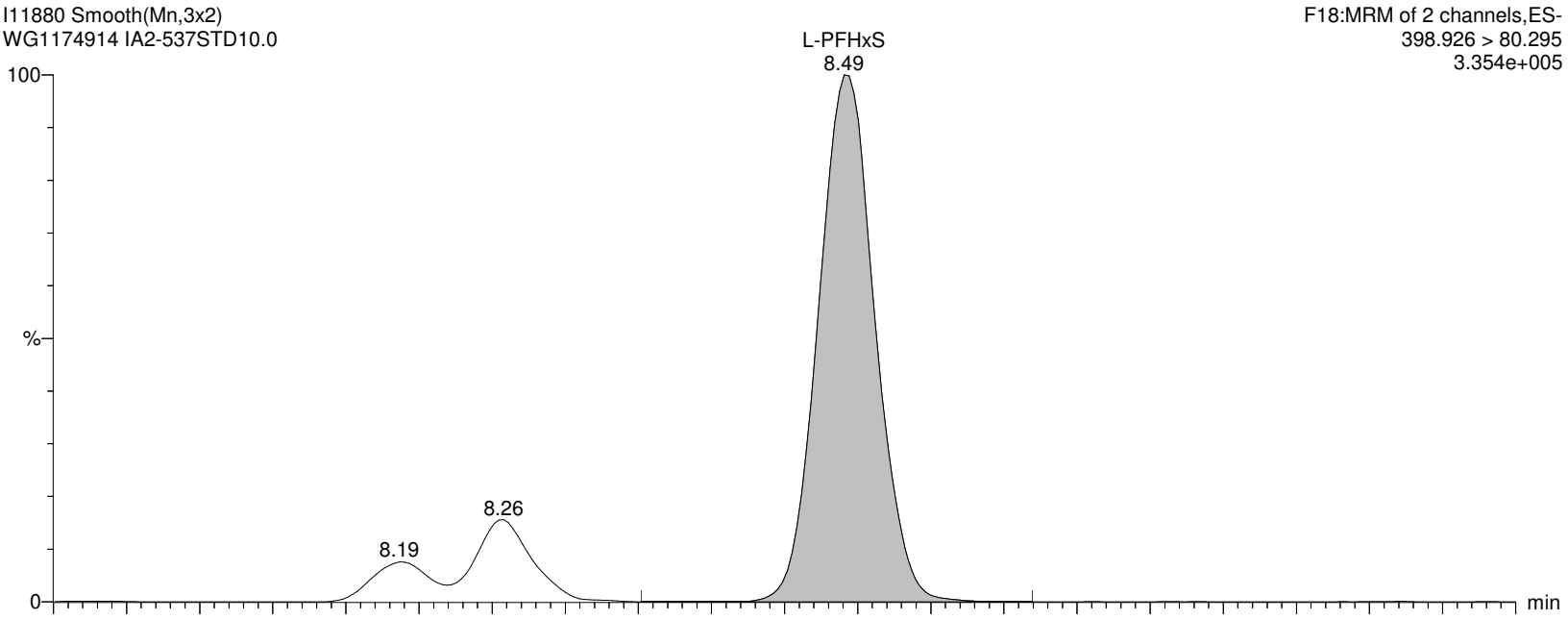

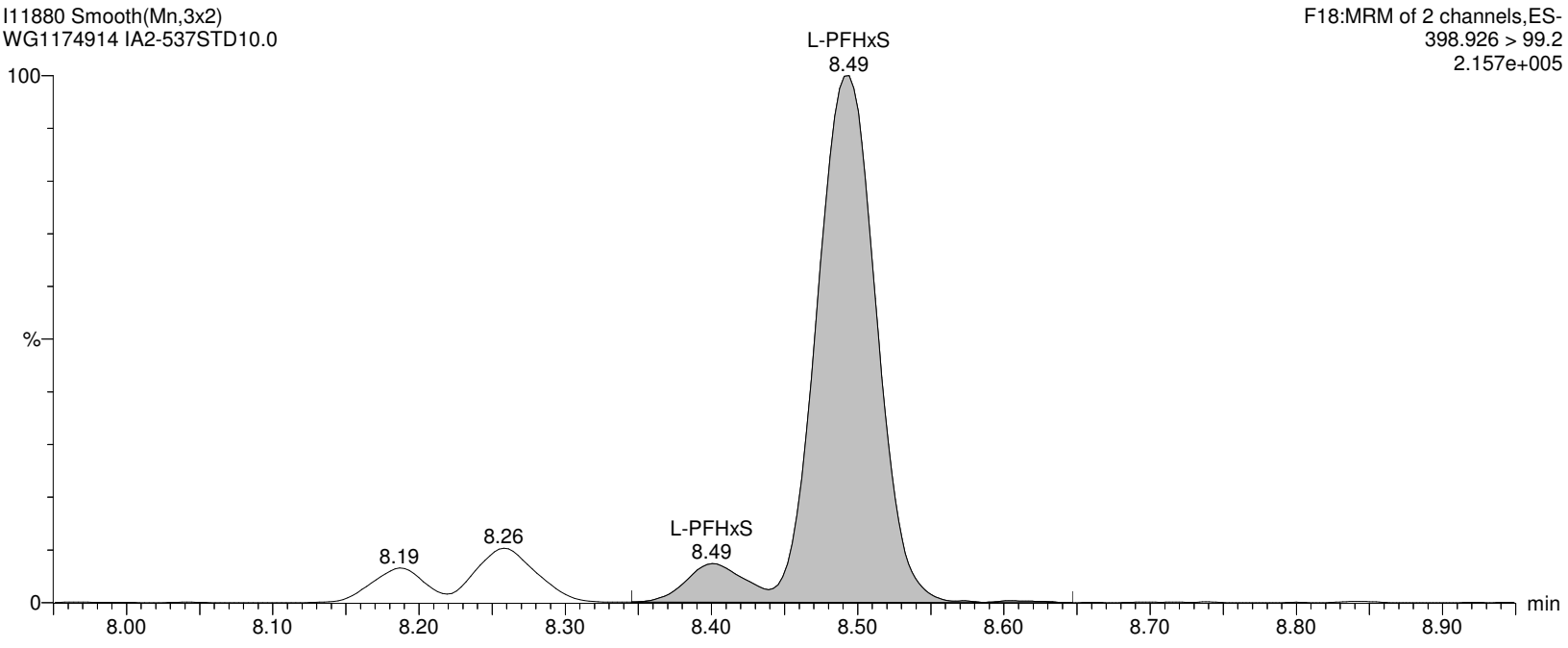

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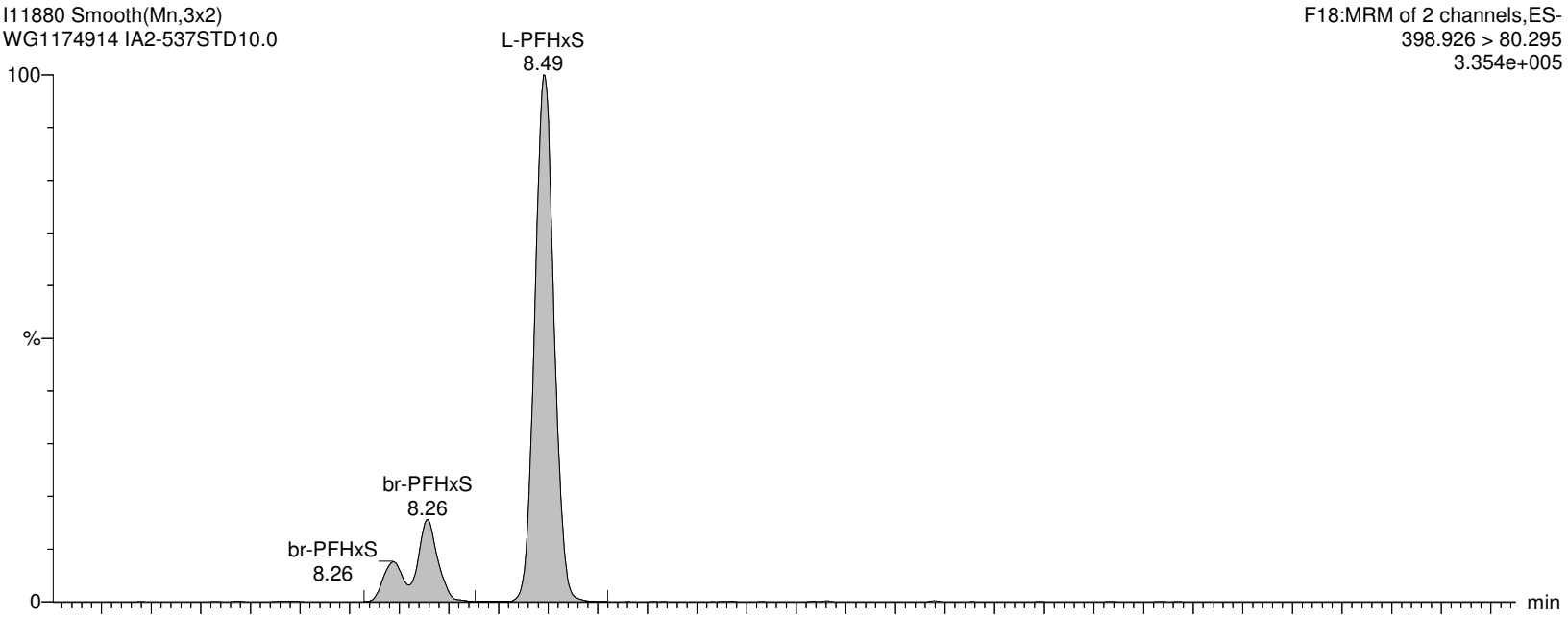

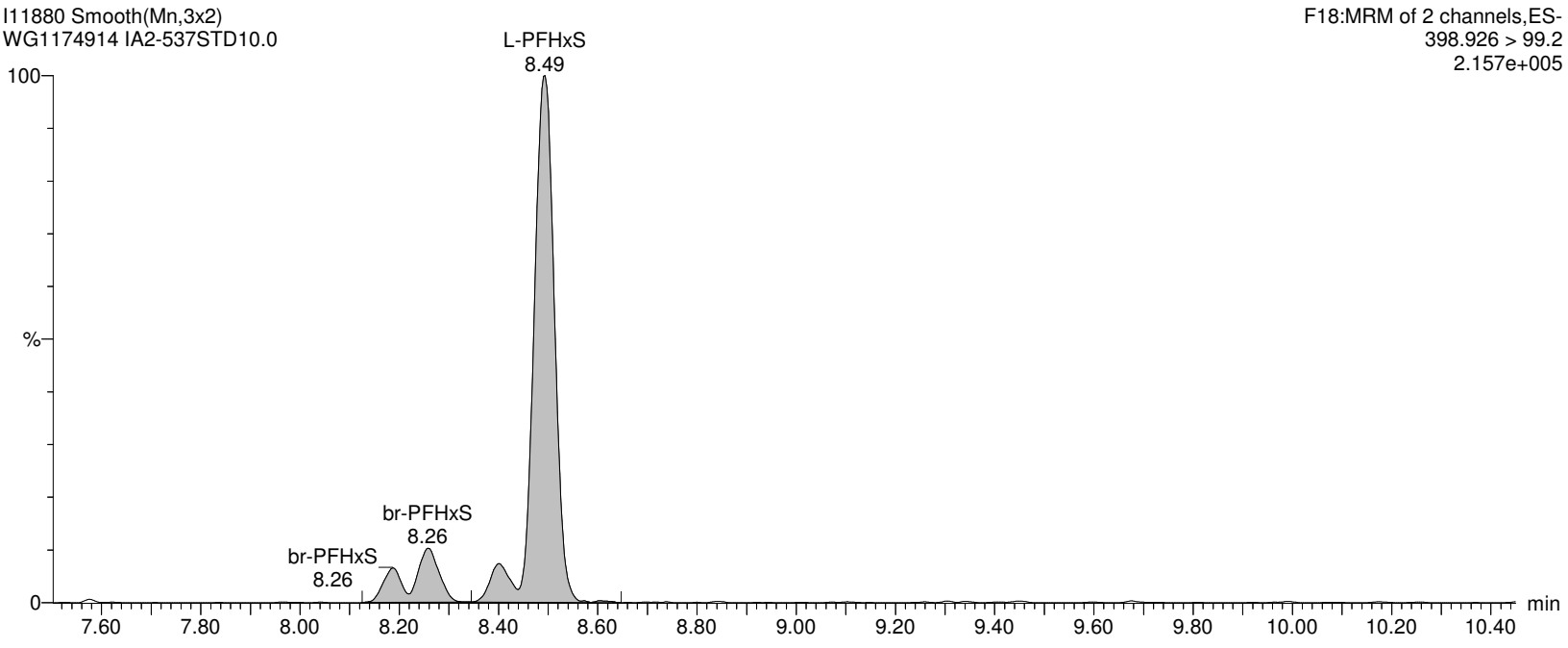

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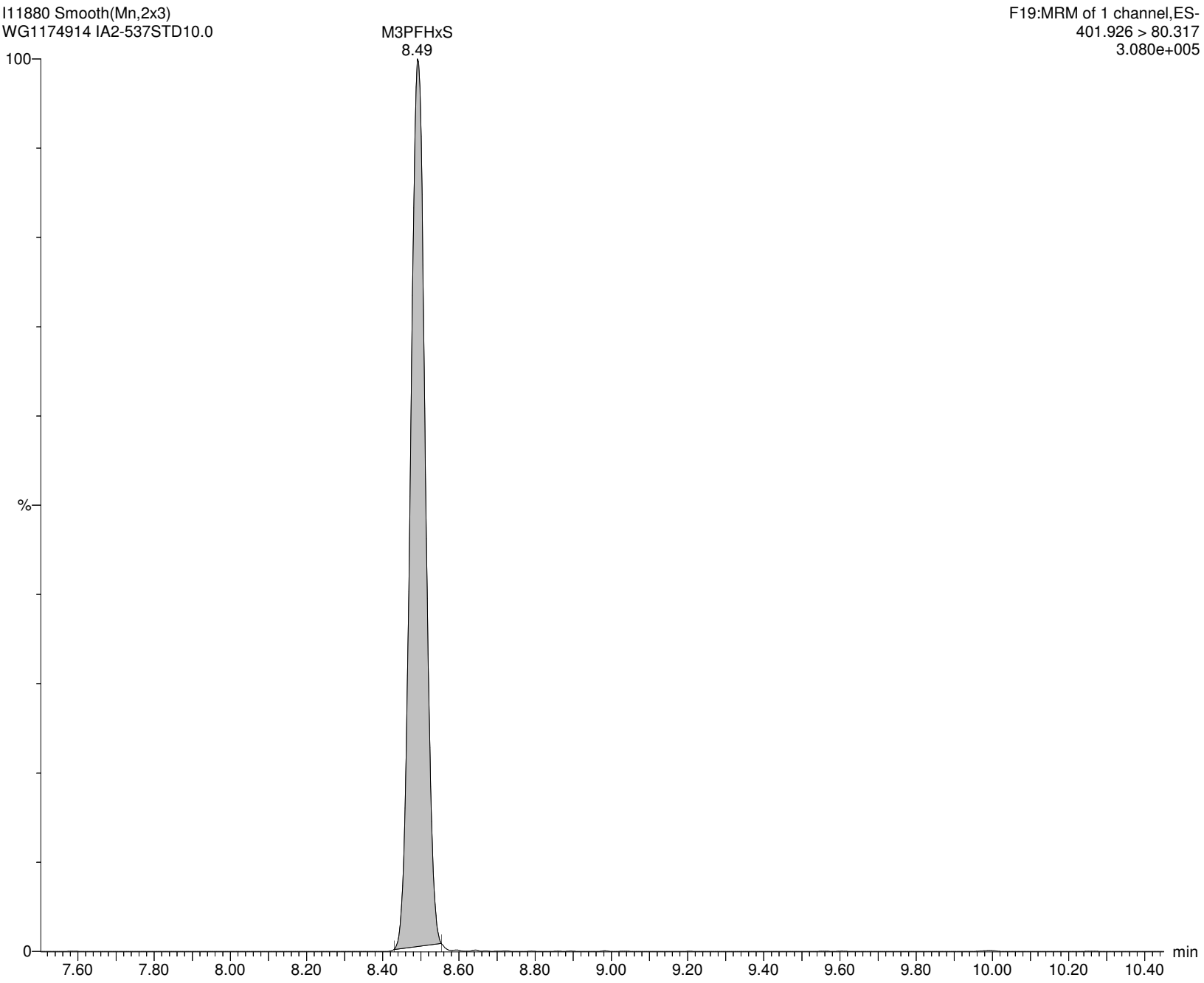

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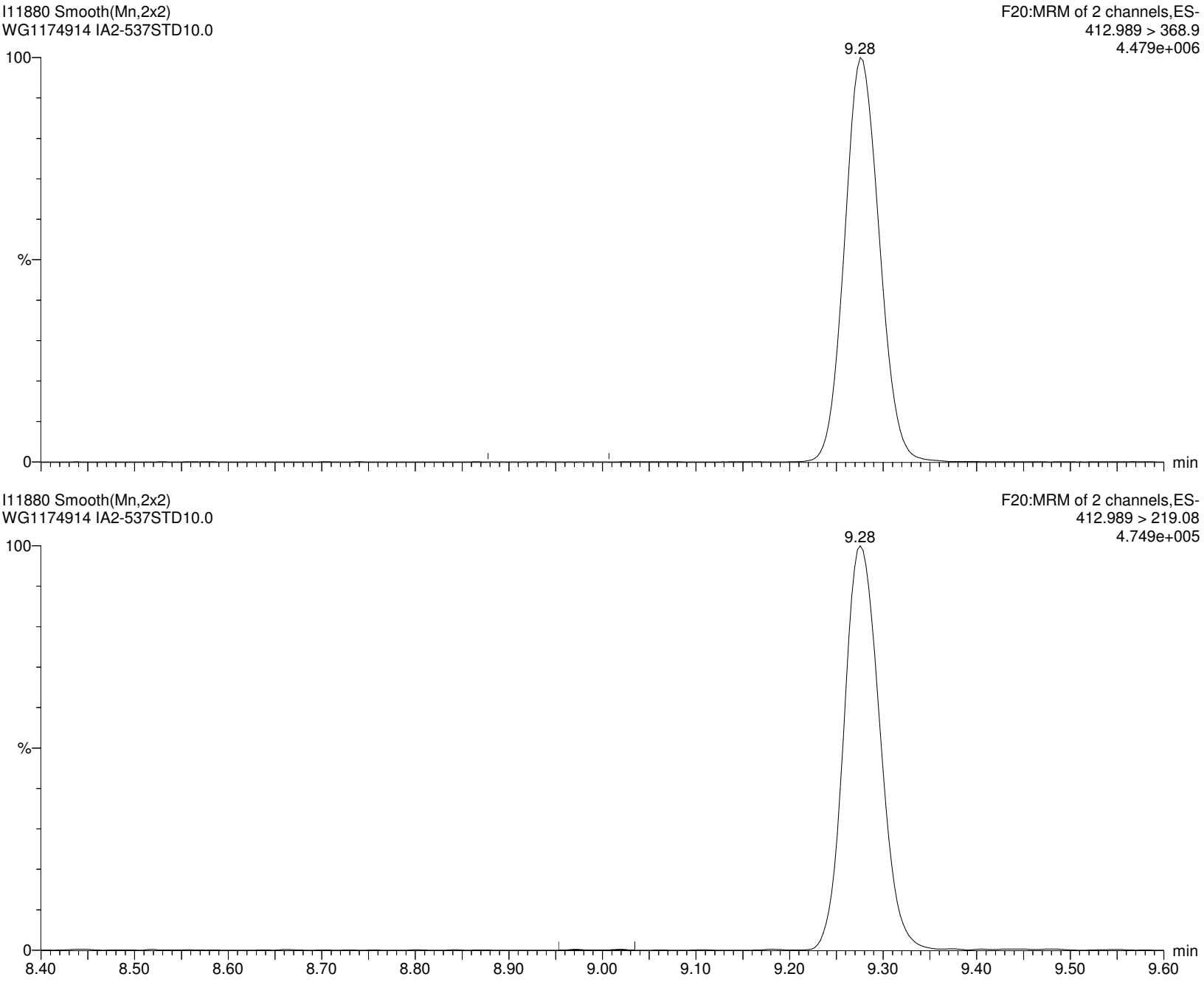

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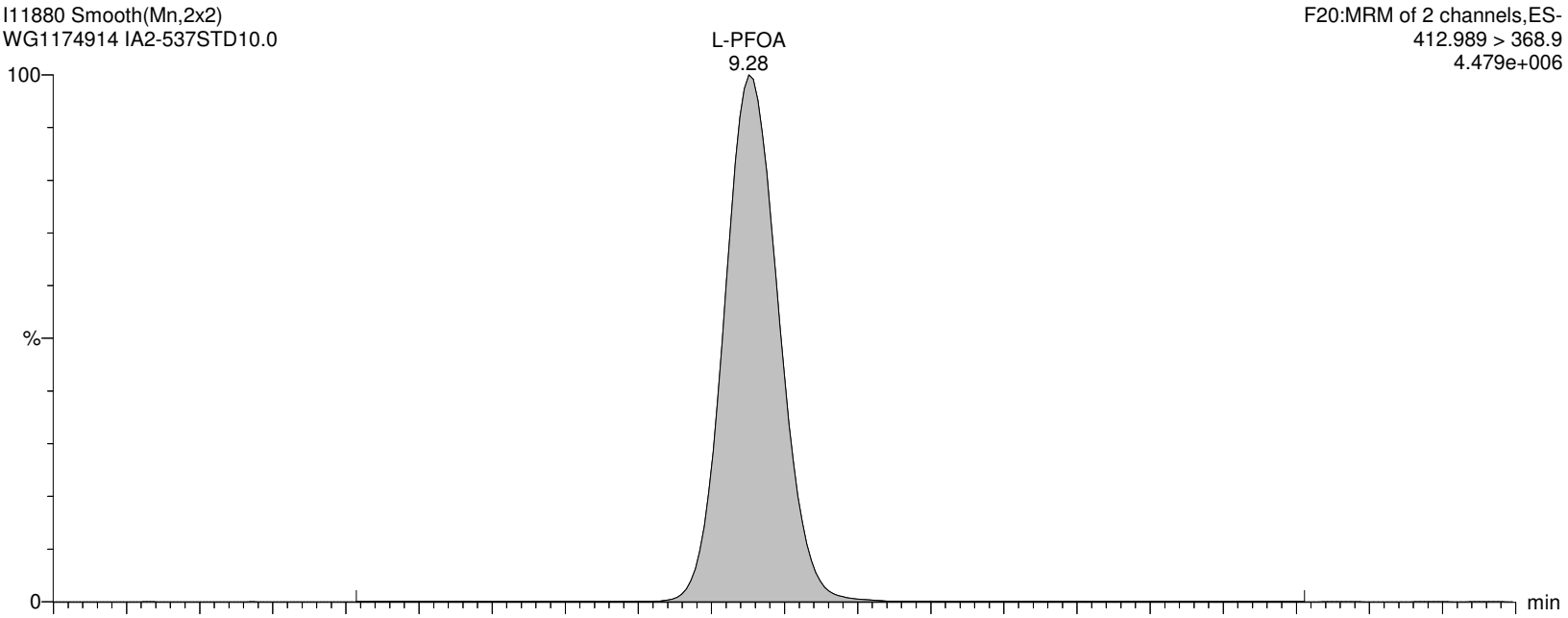

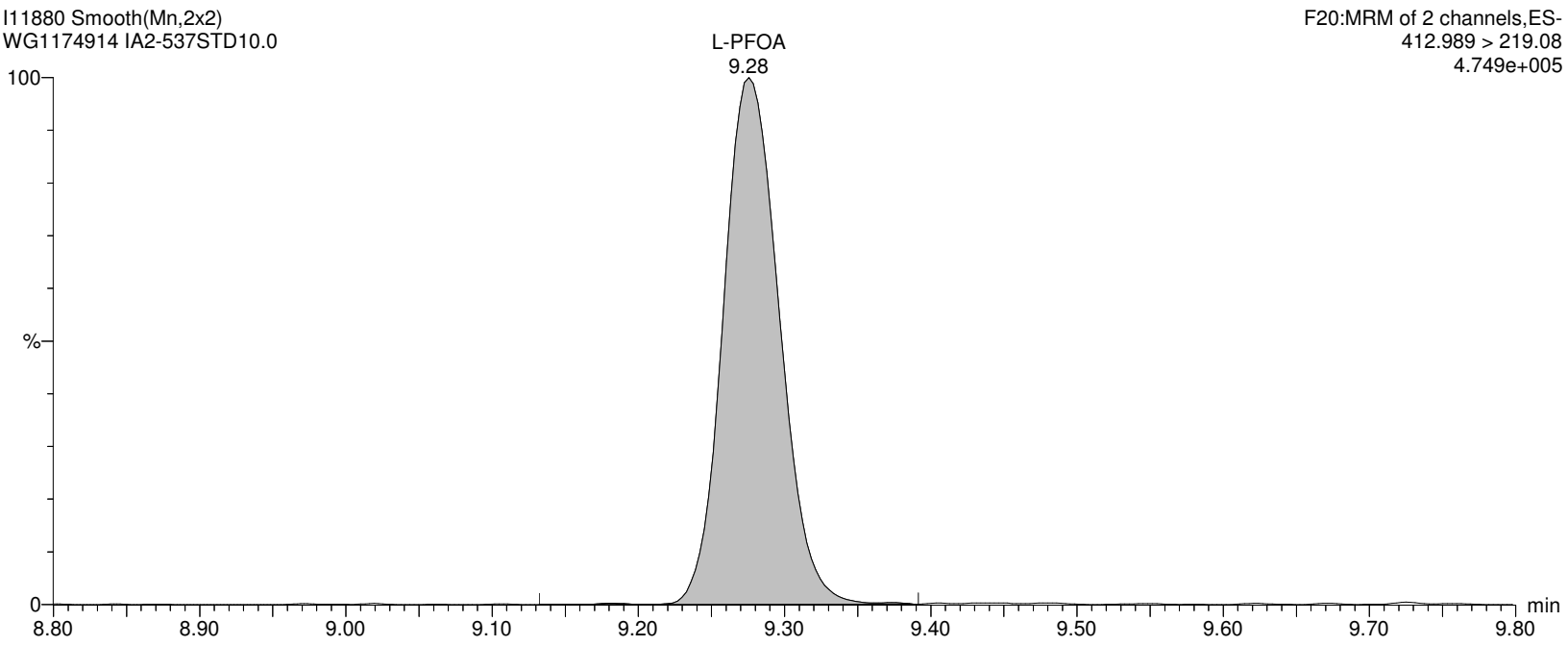

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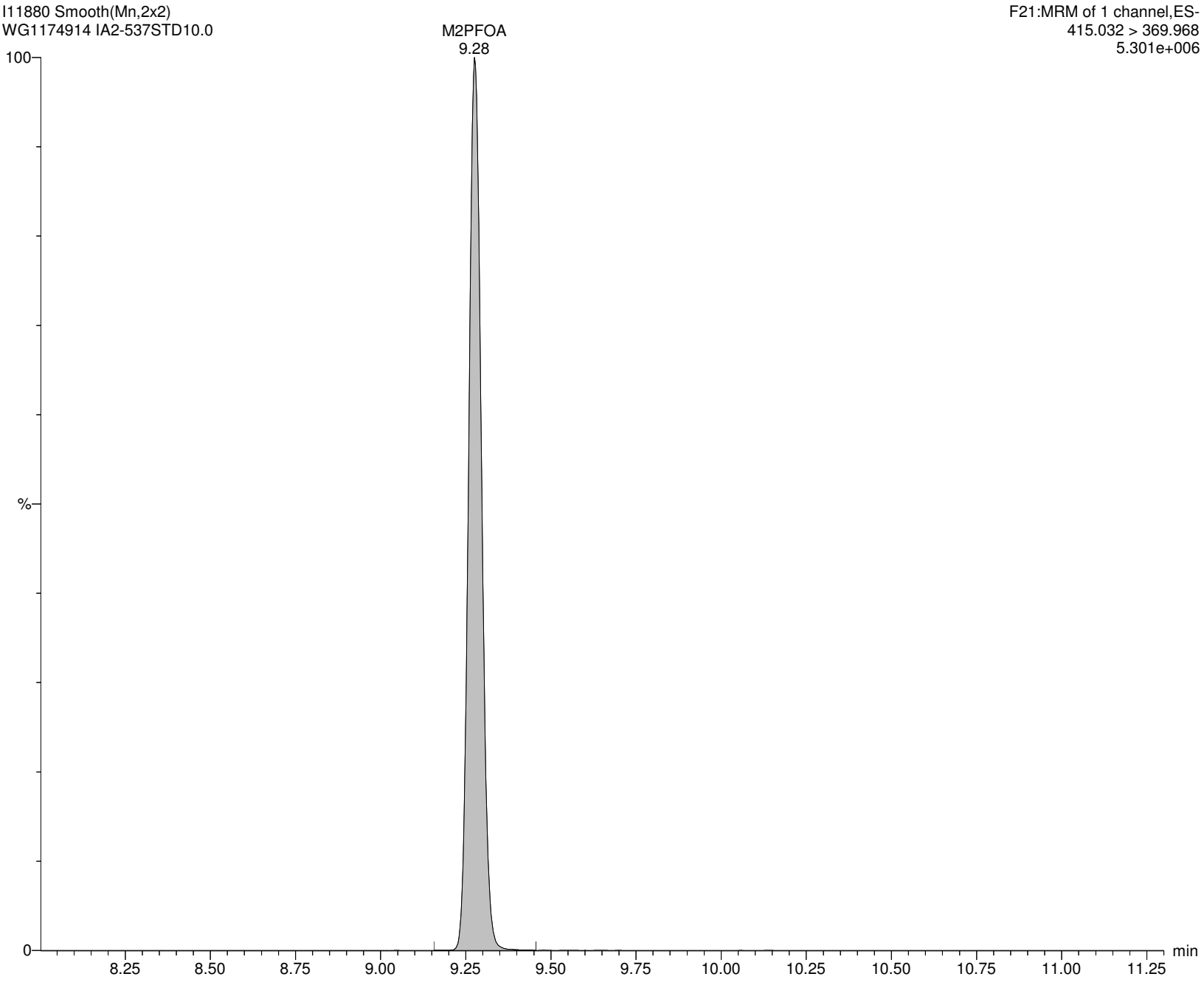

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

Name: I11880
ID: IA2-537STD10.0
Date: 01-Nov-2018
Time: 17:35:32
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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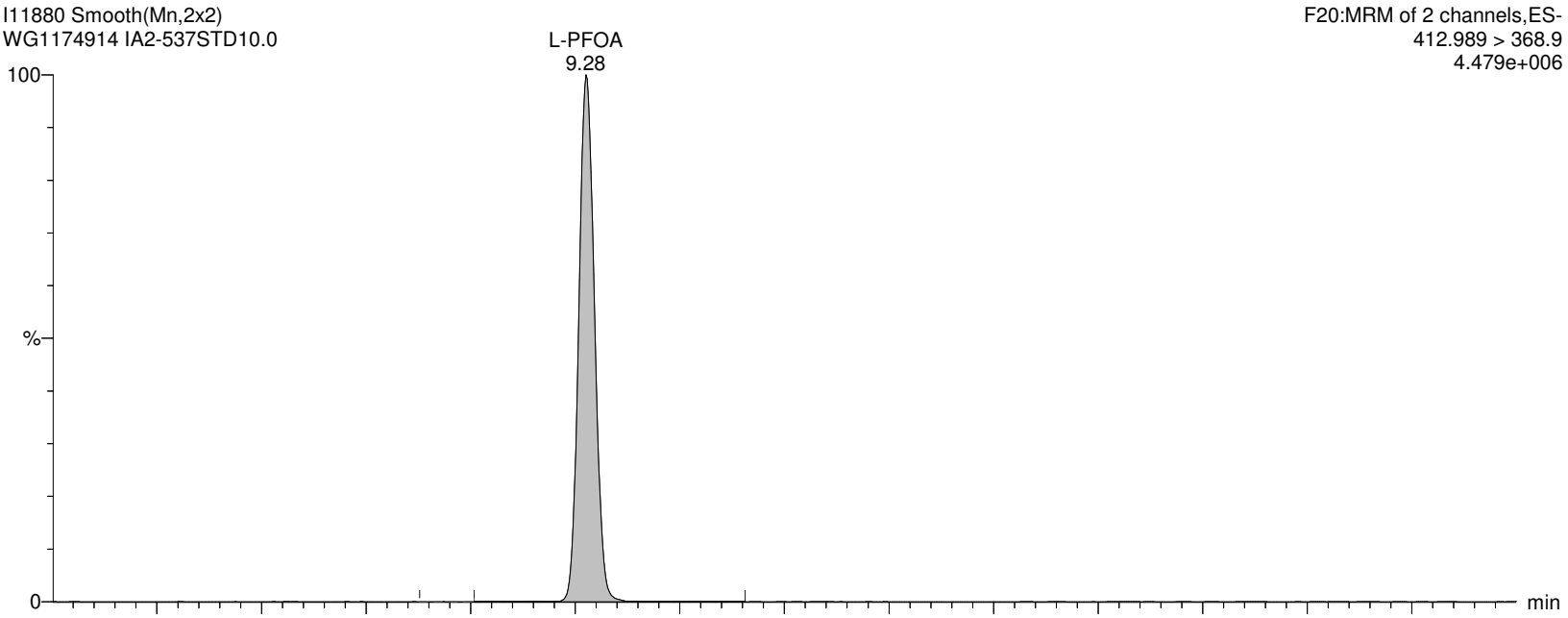

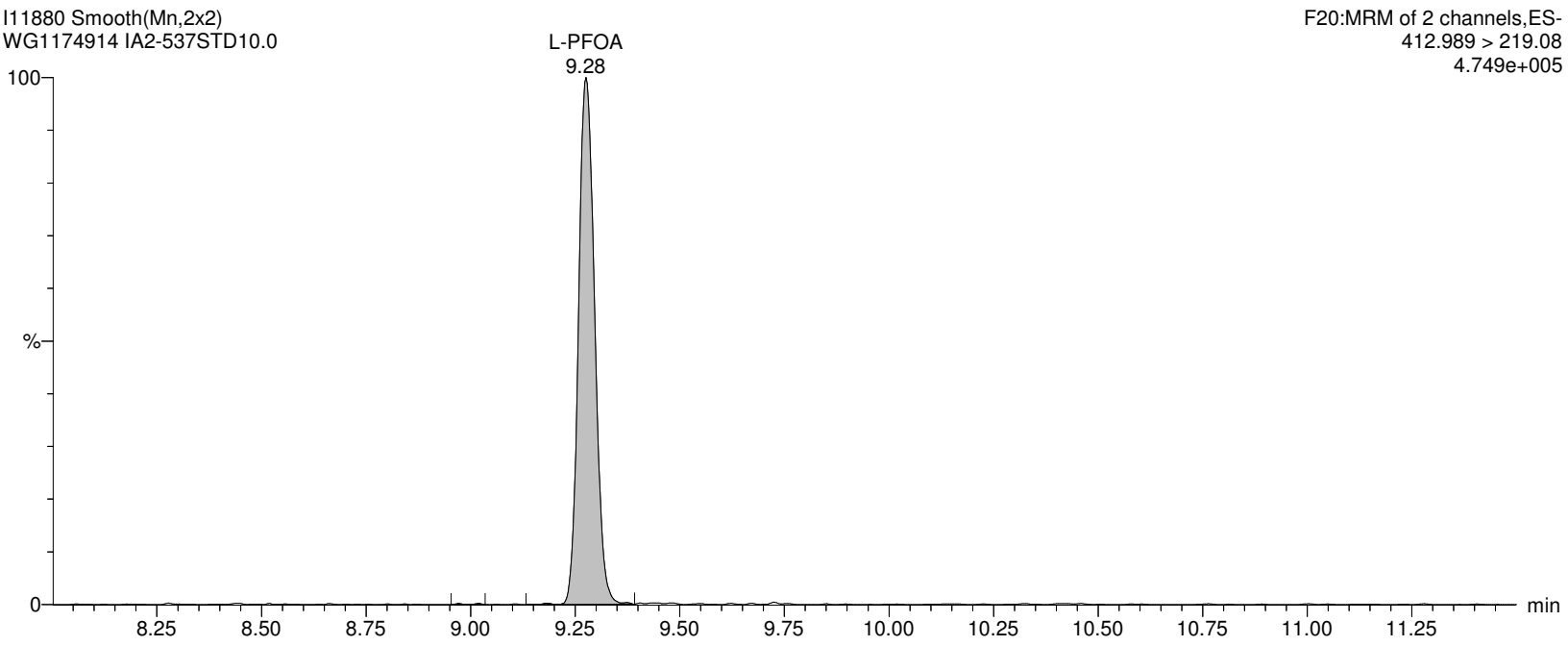

all concentration units in (ng/mL)

Alpha Analytical Inc.
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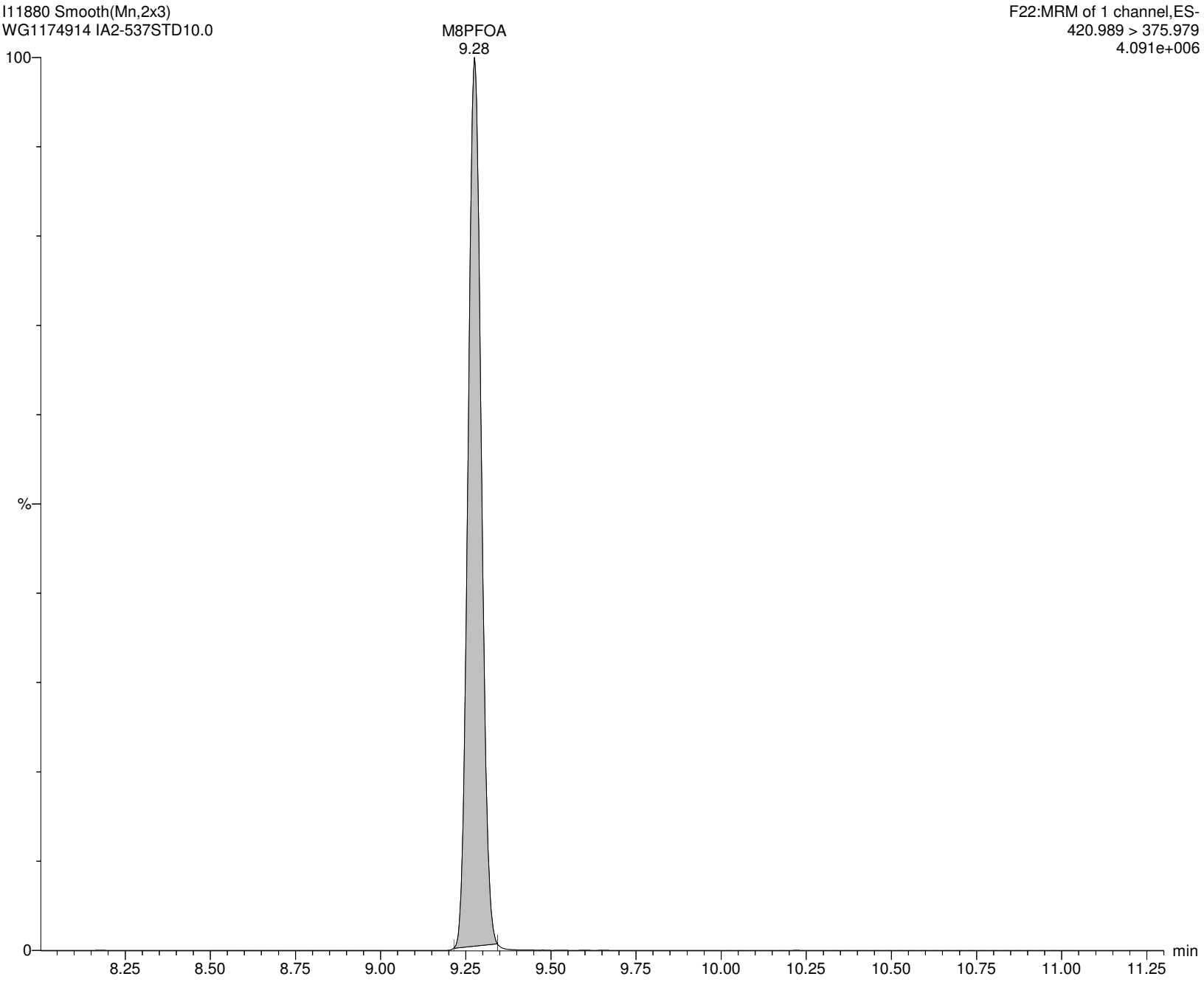

all concentration units in (ng/mL)

Alpha Analytical Inc.
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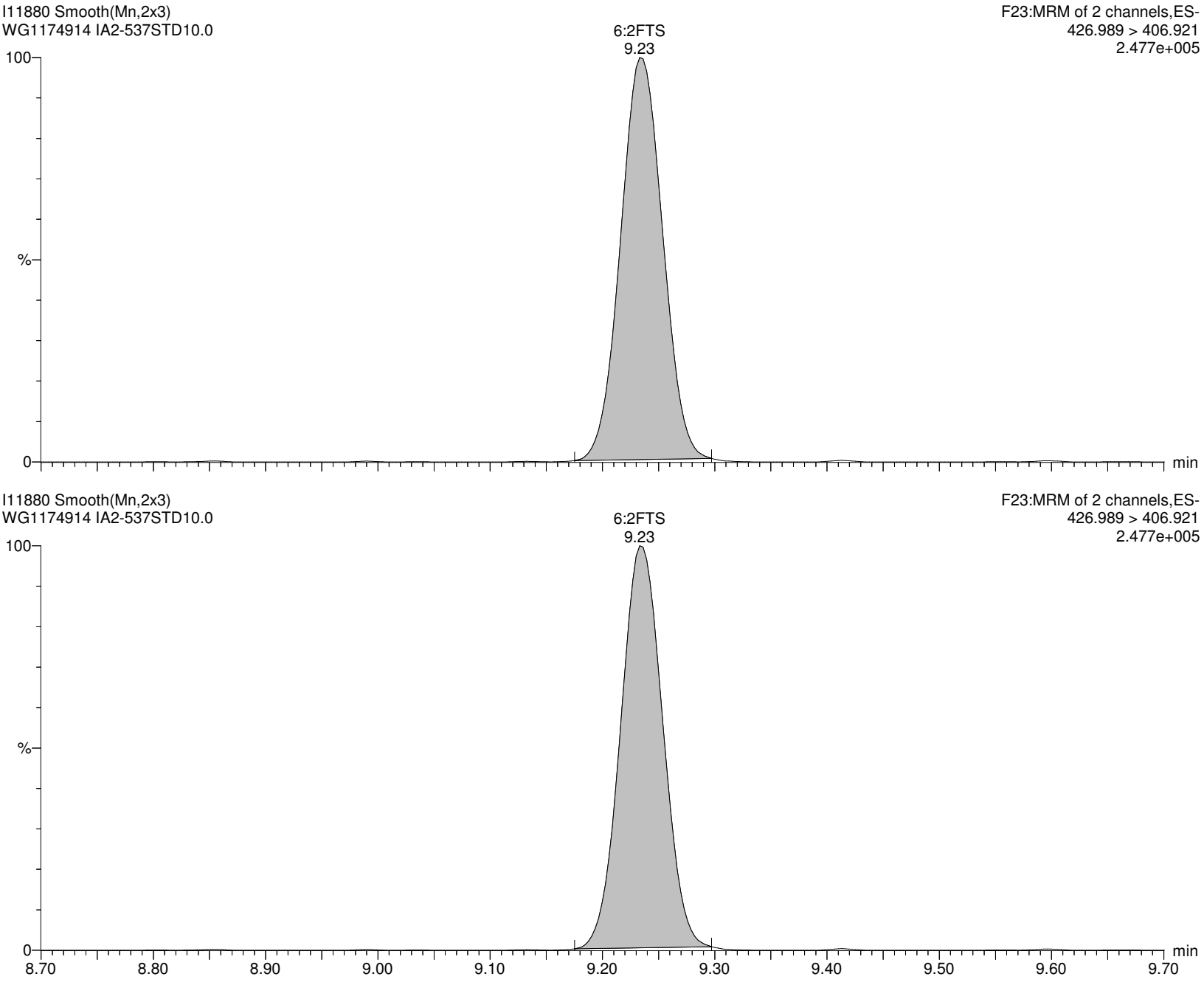
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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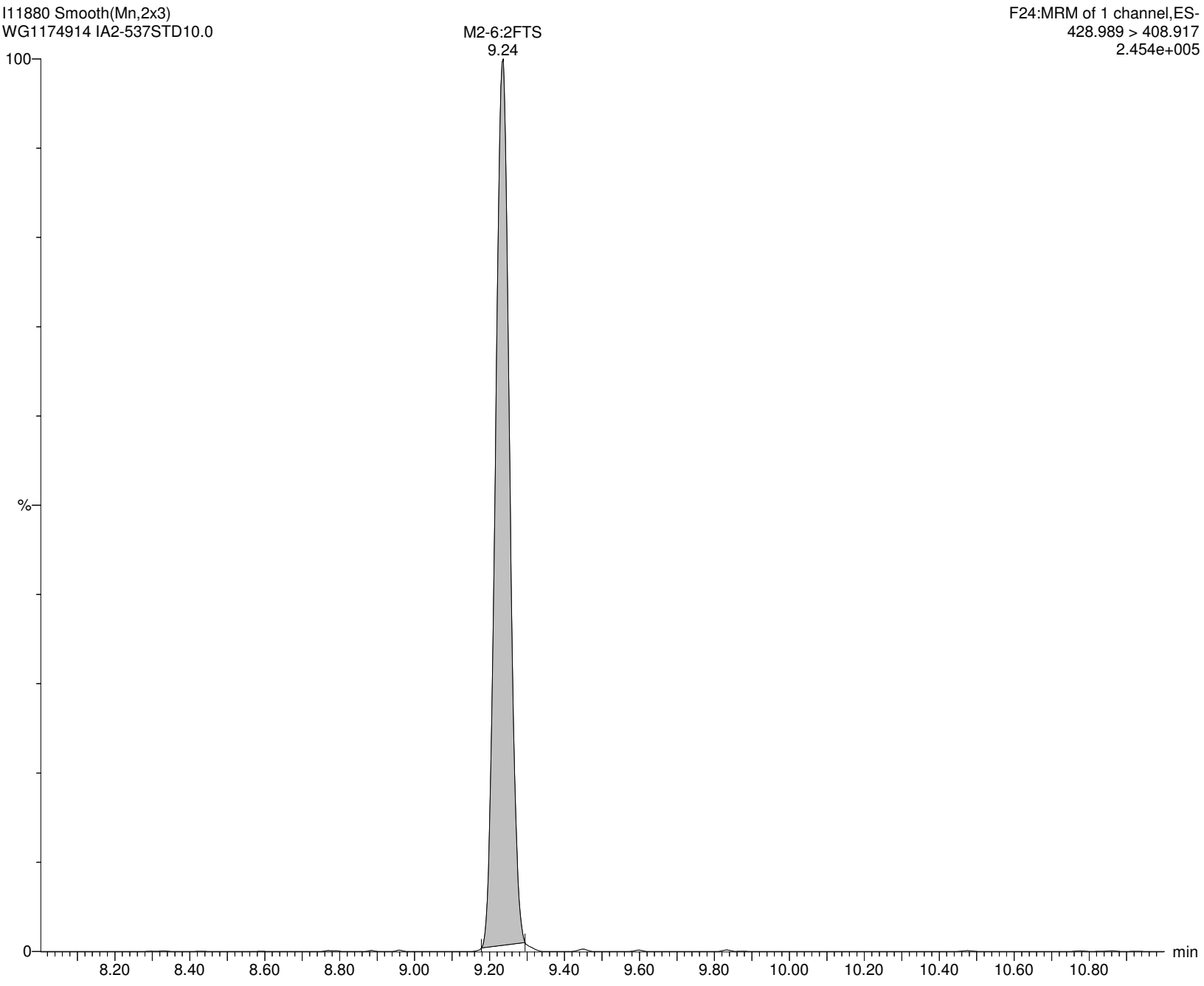
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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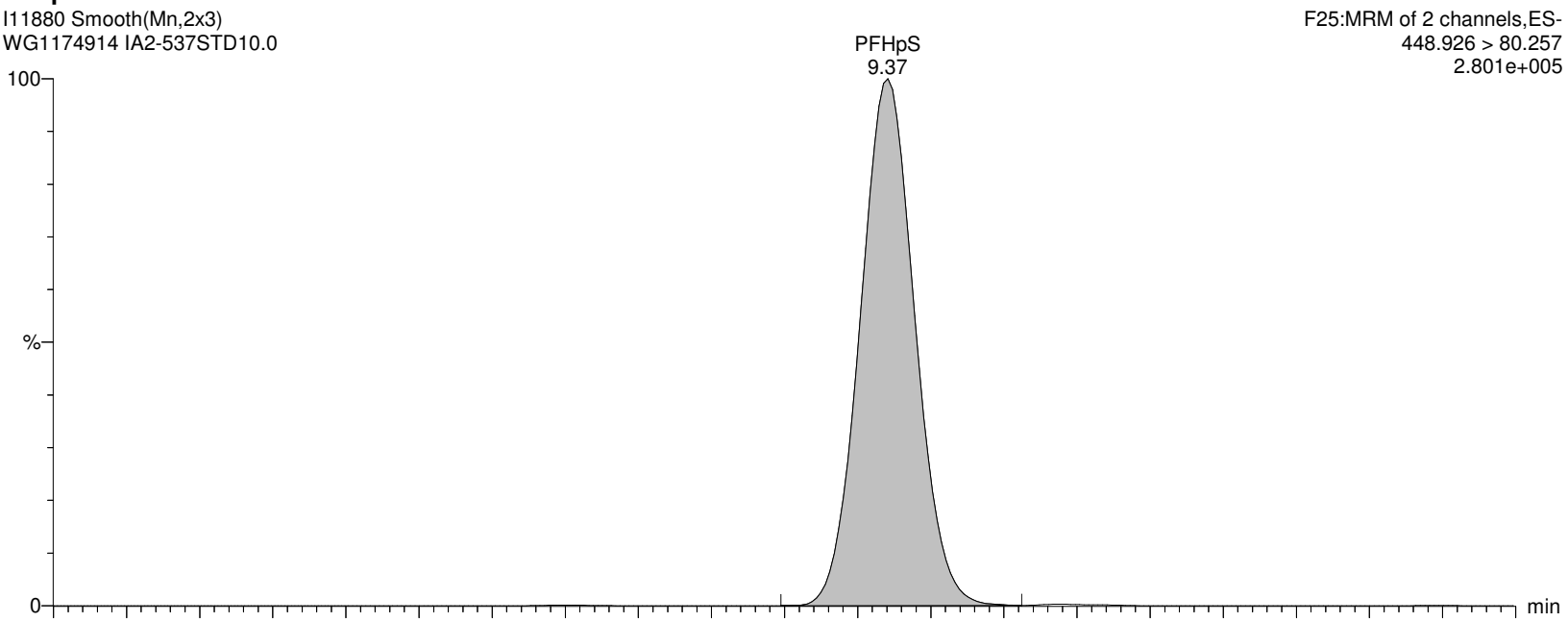

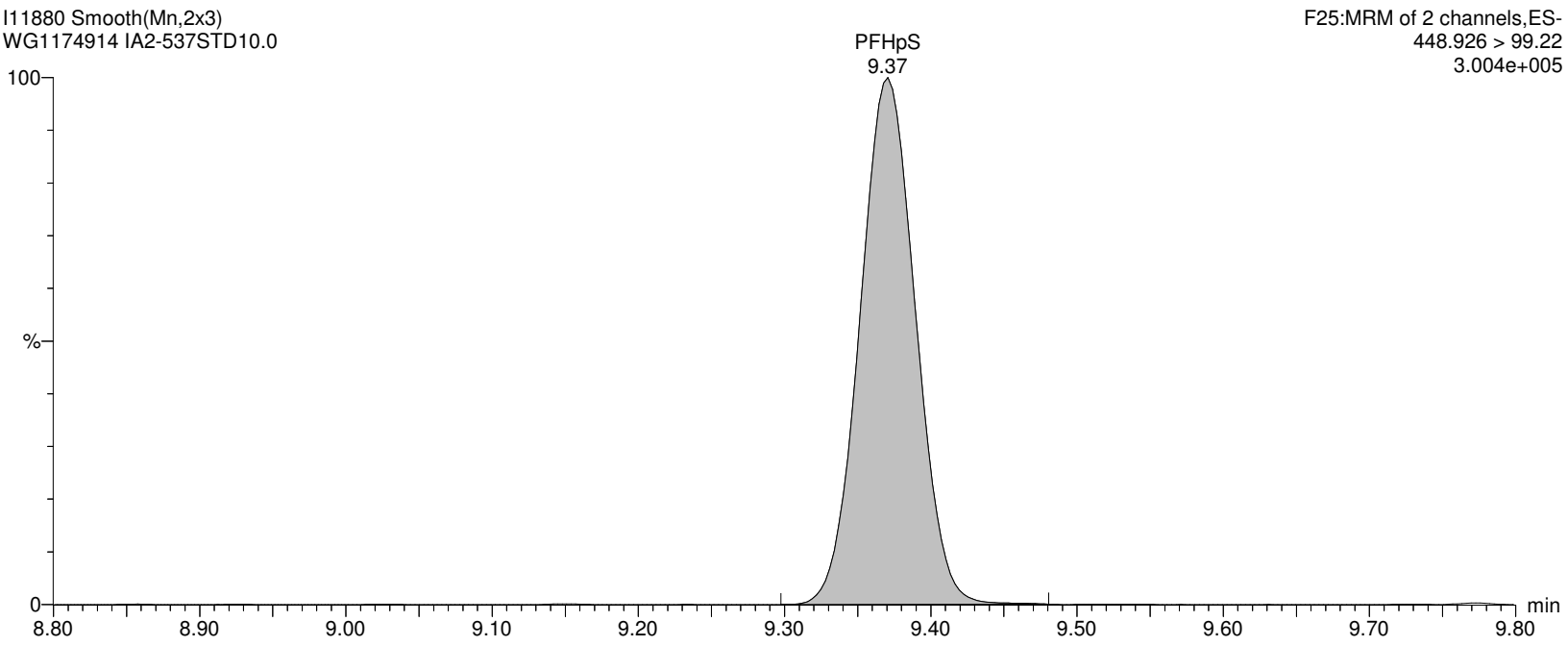

all concentration units in (ng/mL)

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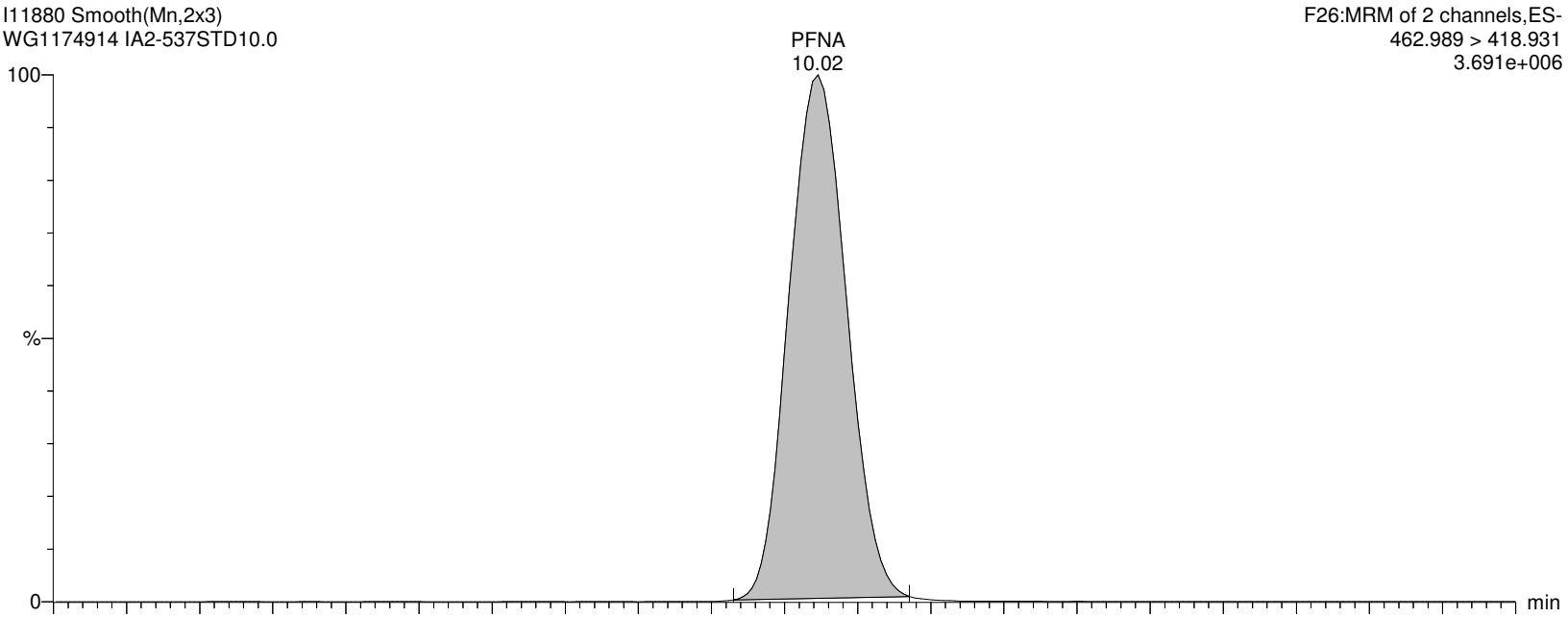

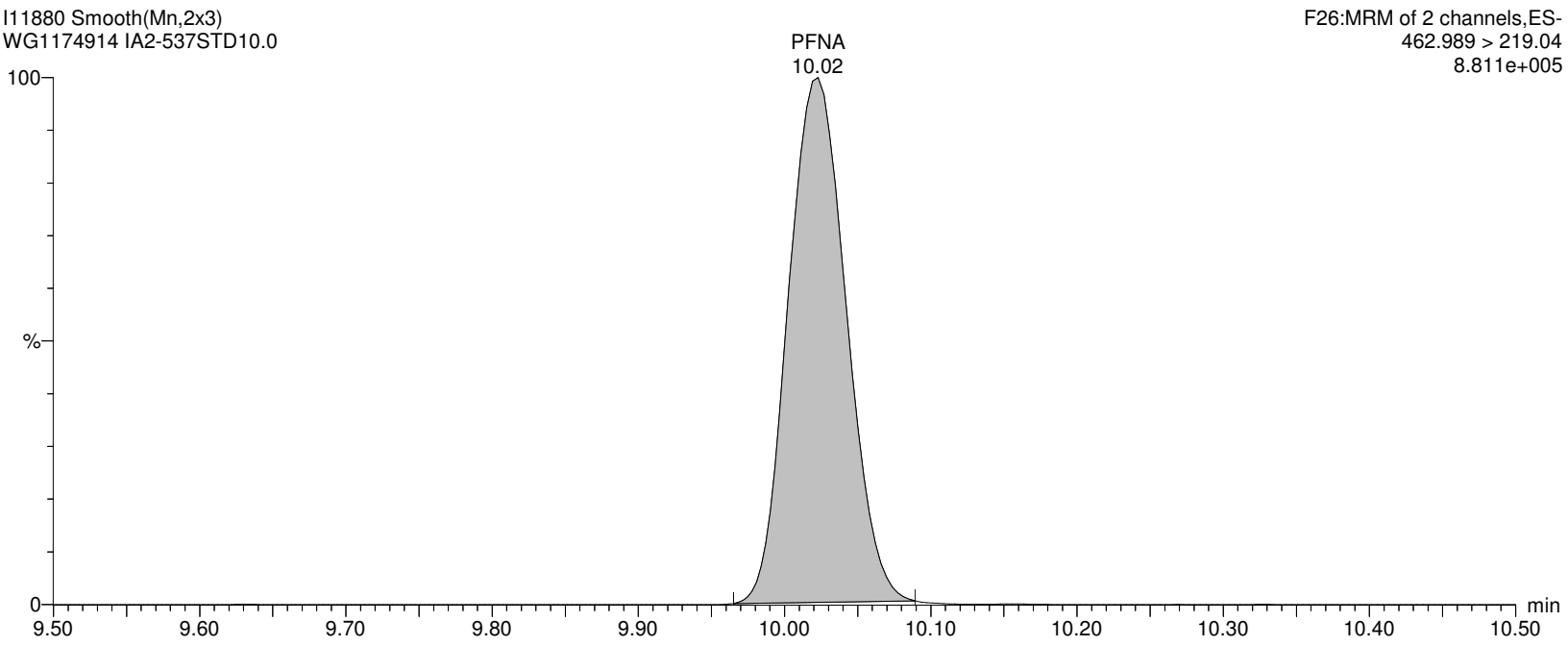

all concentration units in (ng/mL)

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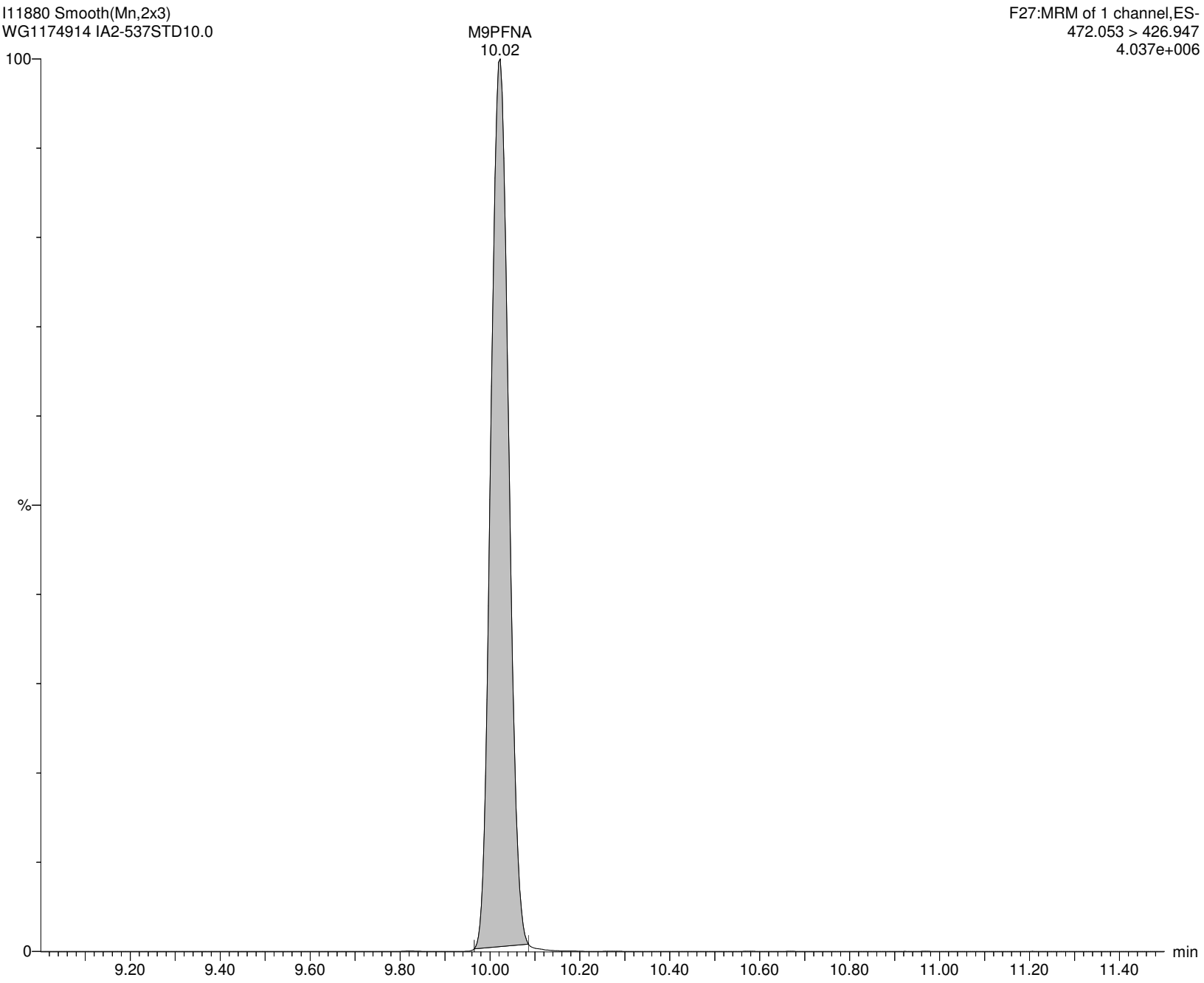

all concentration units in (ng/mL)

Alpha Analytical Inc.
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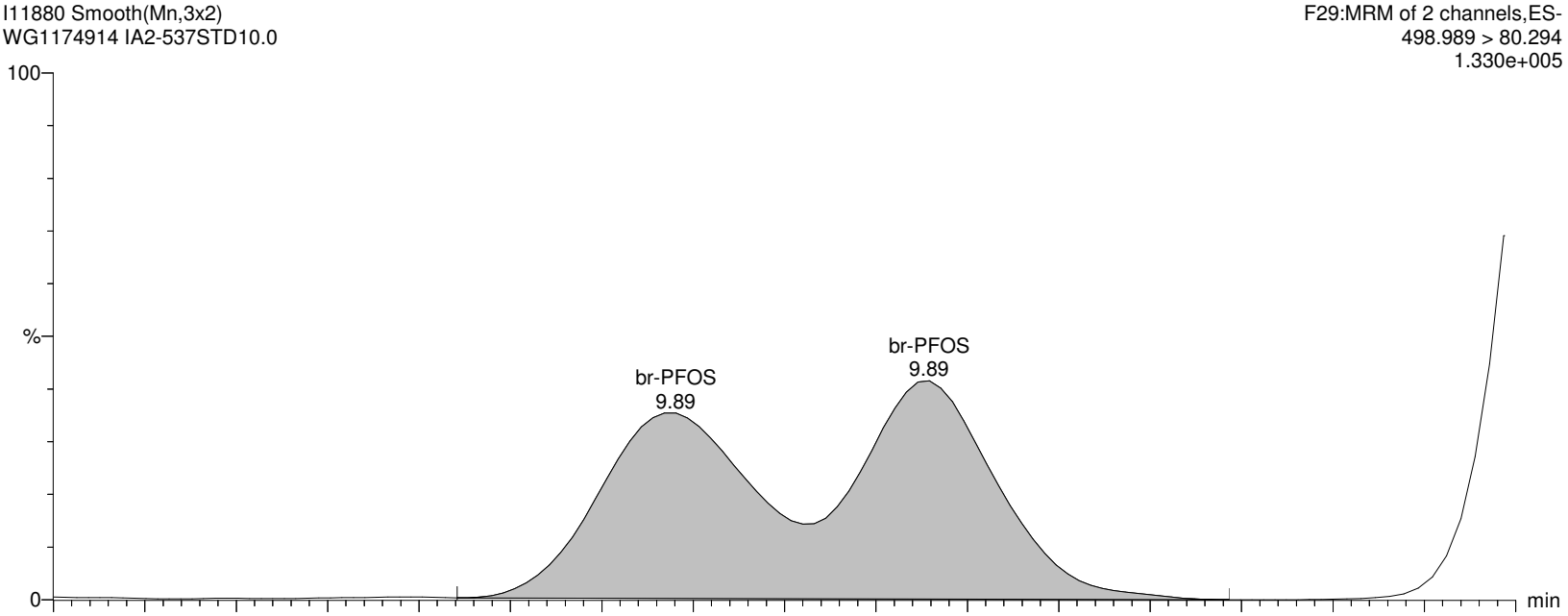

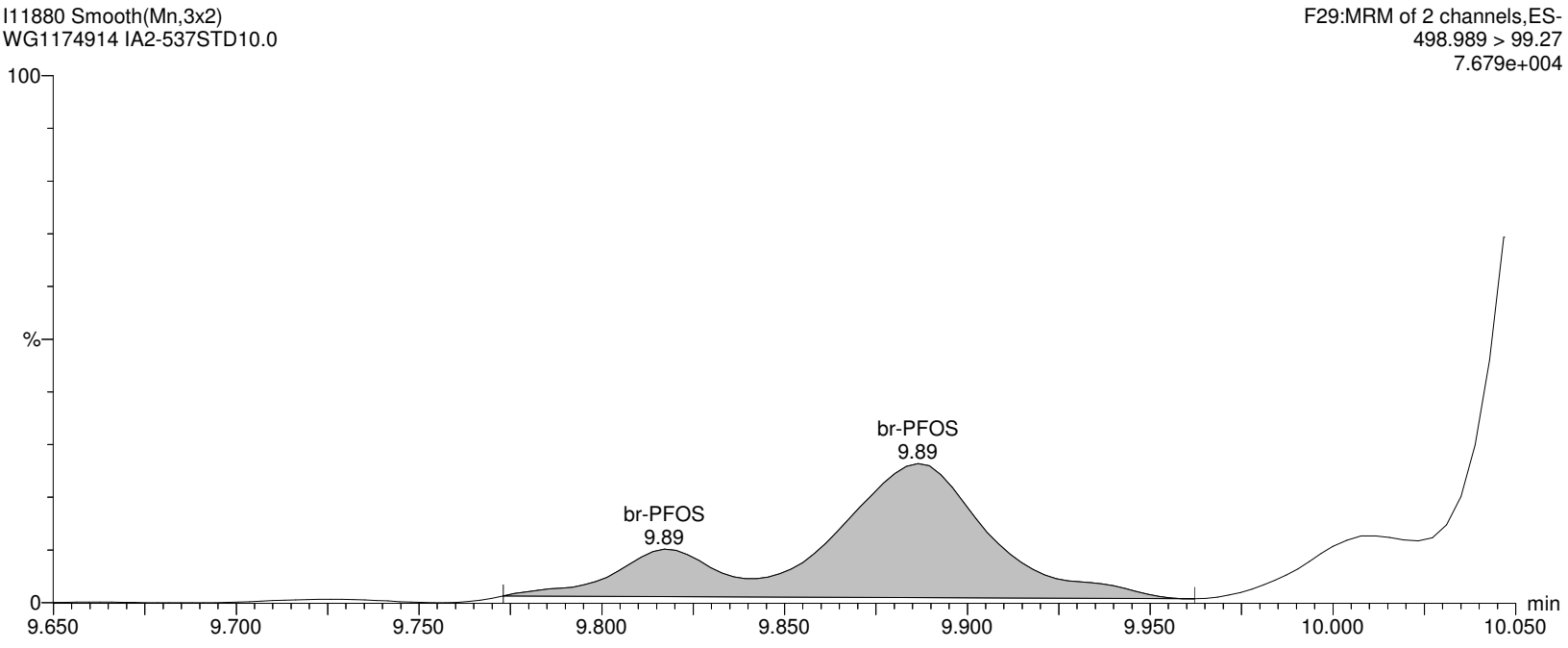

all concentration units in (ng/mL)

Alpha Analytical Inc.
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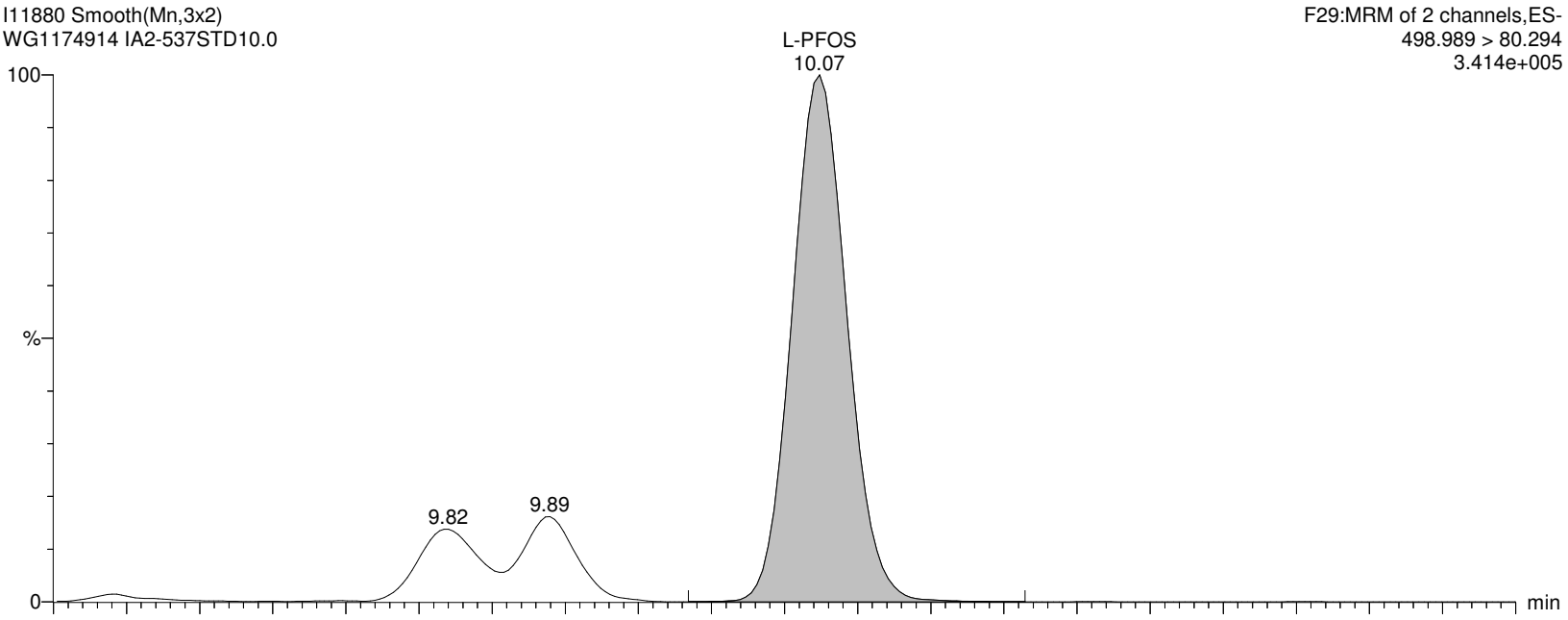

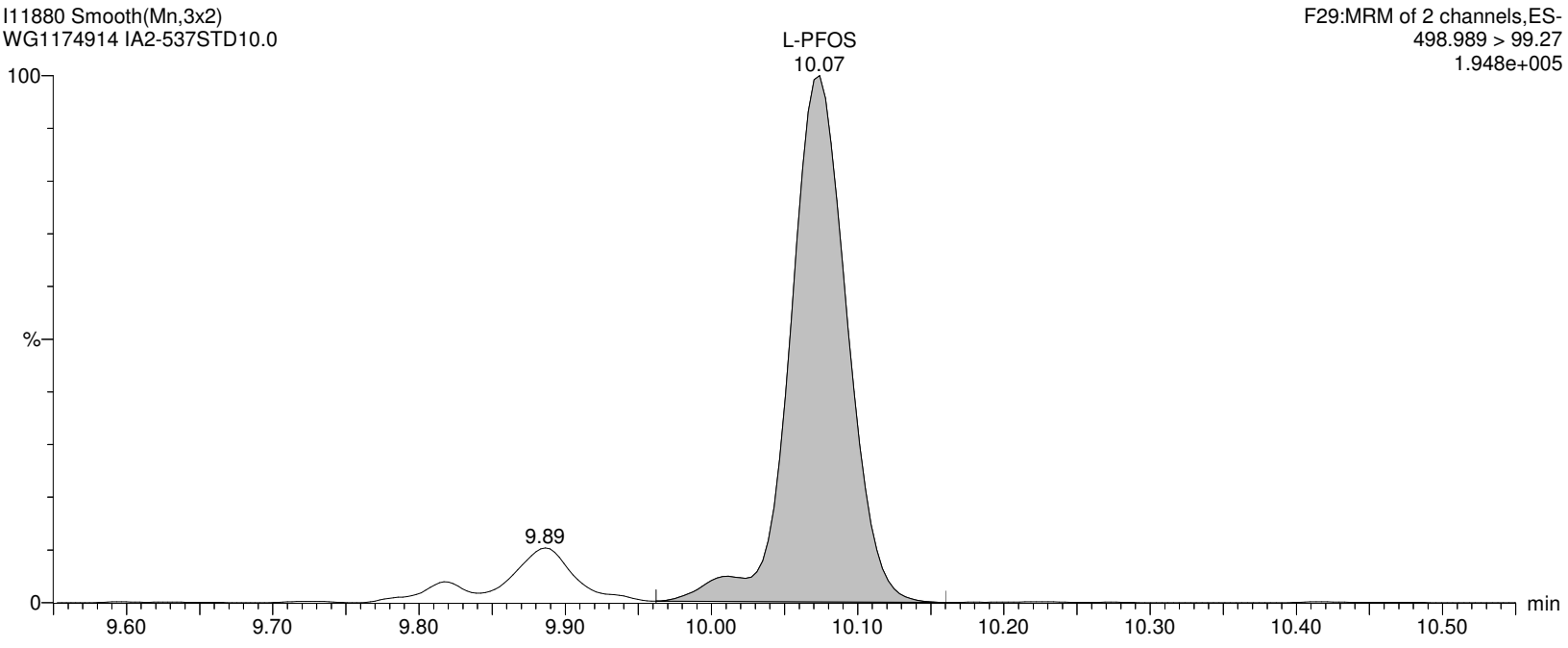

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Name: I11880
ID: IA2-537STD10.0
Date: 01-Nov-2018
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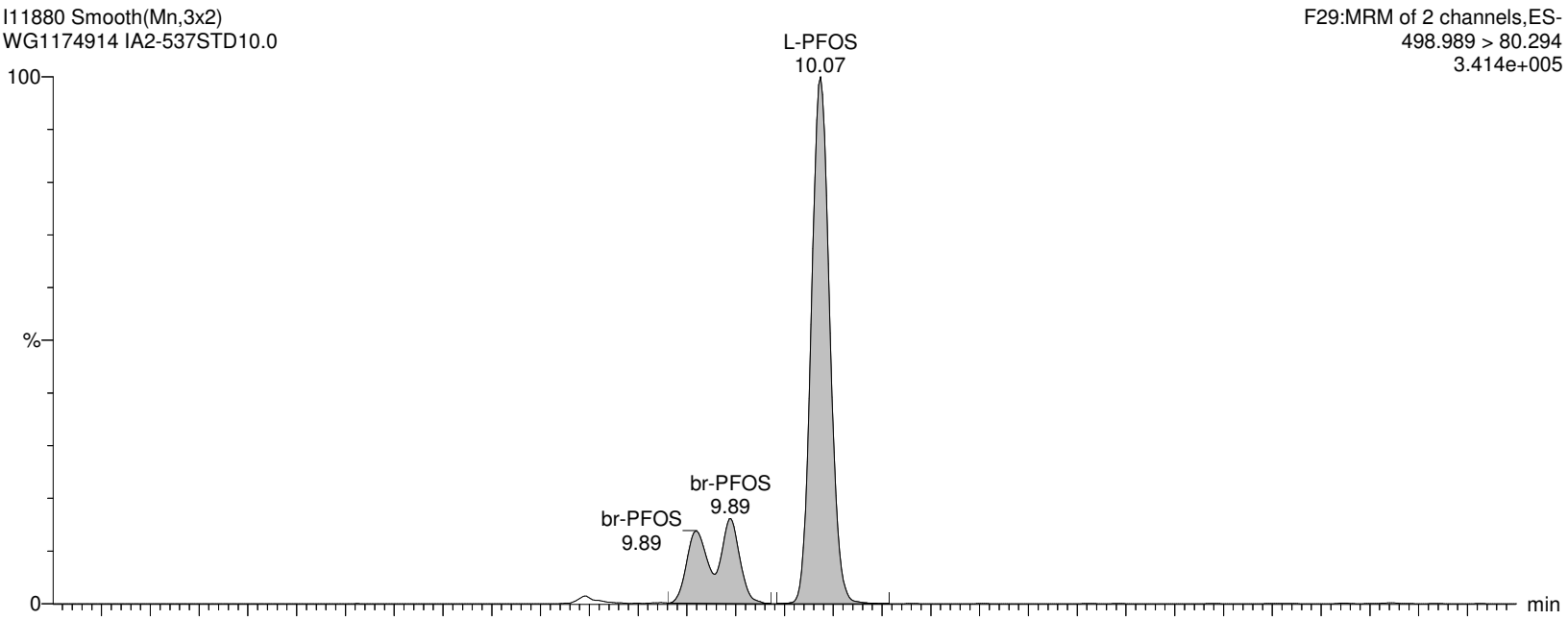

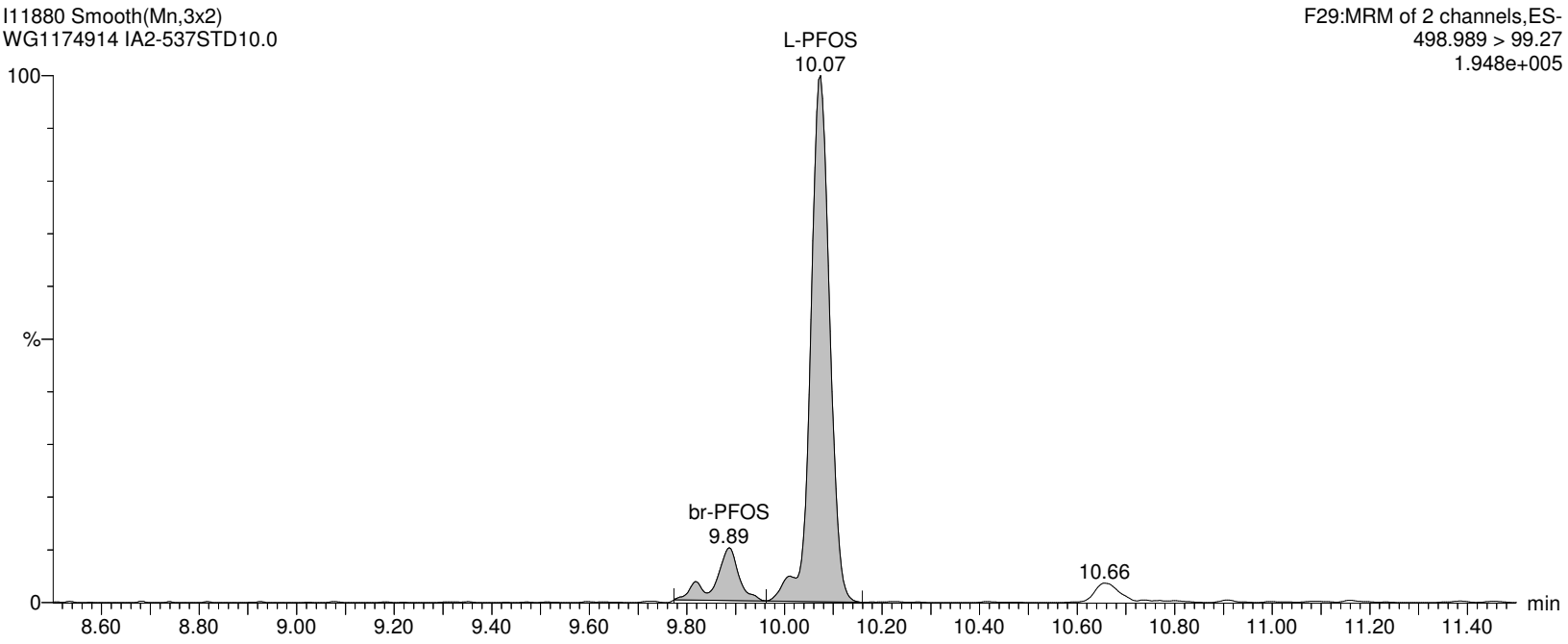

all concentration units in (ng/mL)

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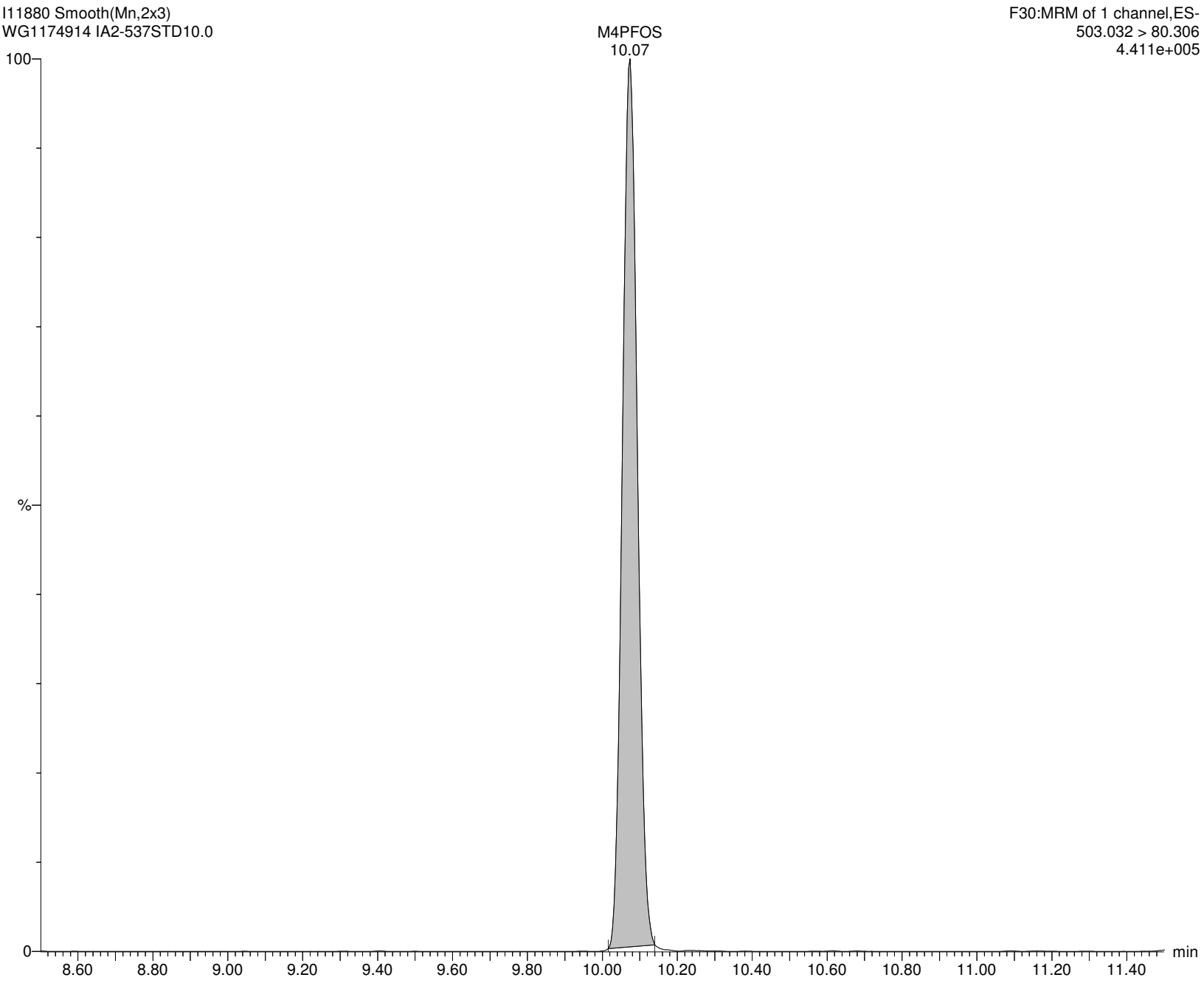

all concentration units in (ng/mL)

Alpha Analytical Inc.
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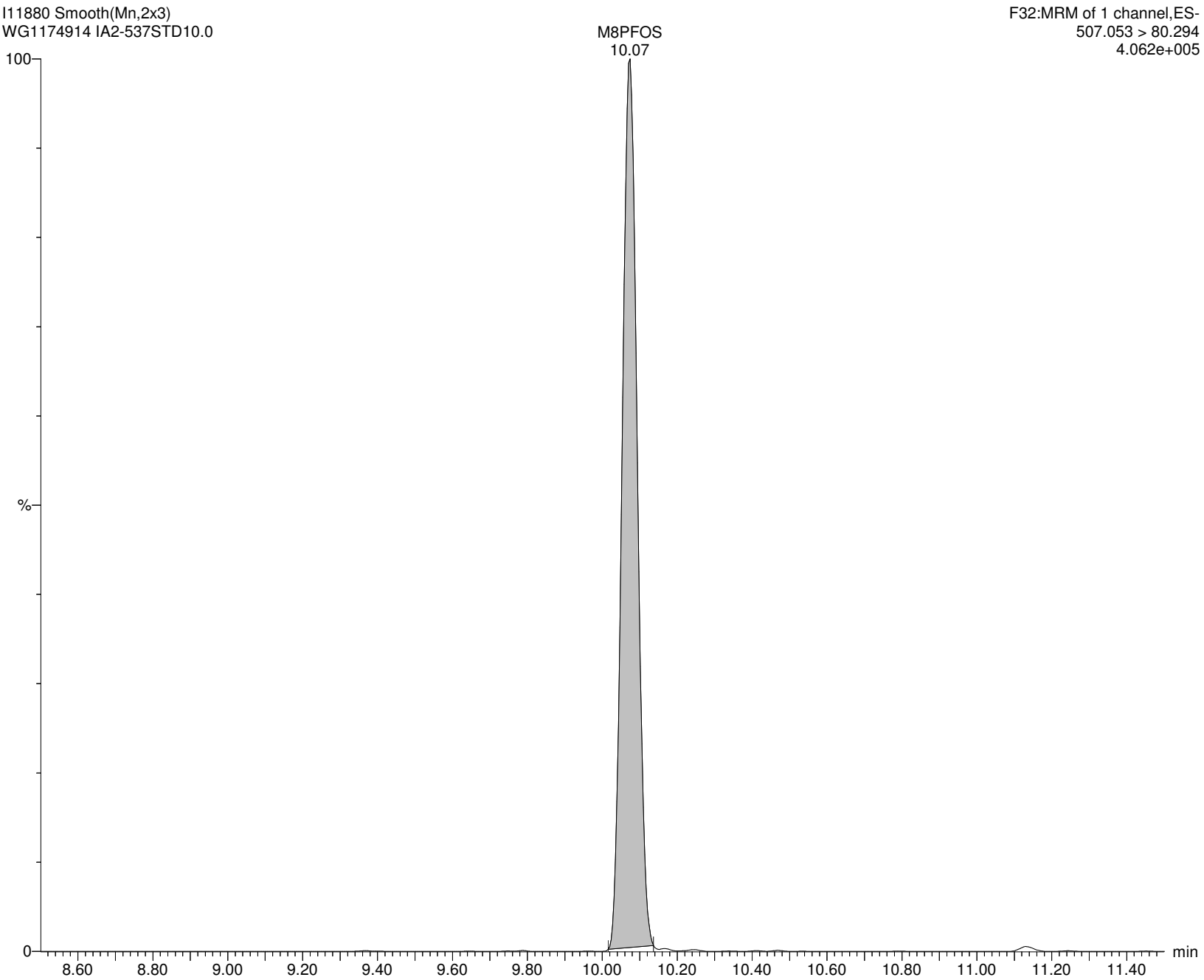
M8PFOS



all concentration units in (ng/mL)

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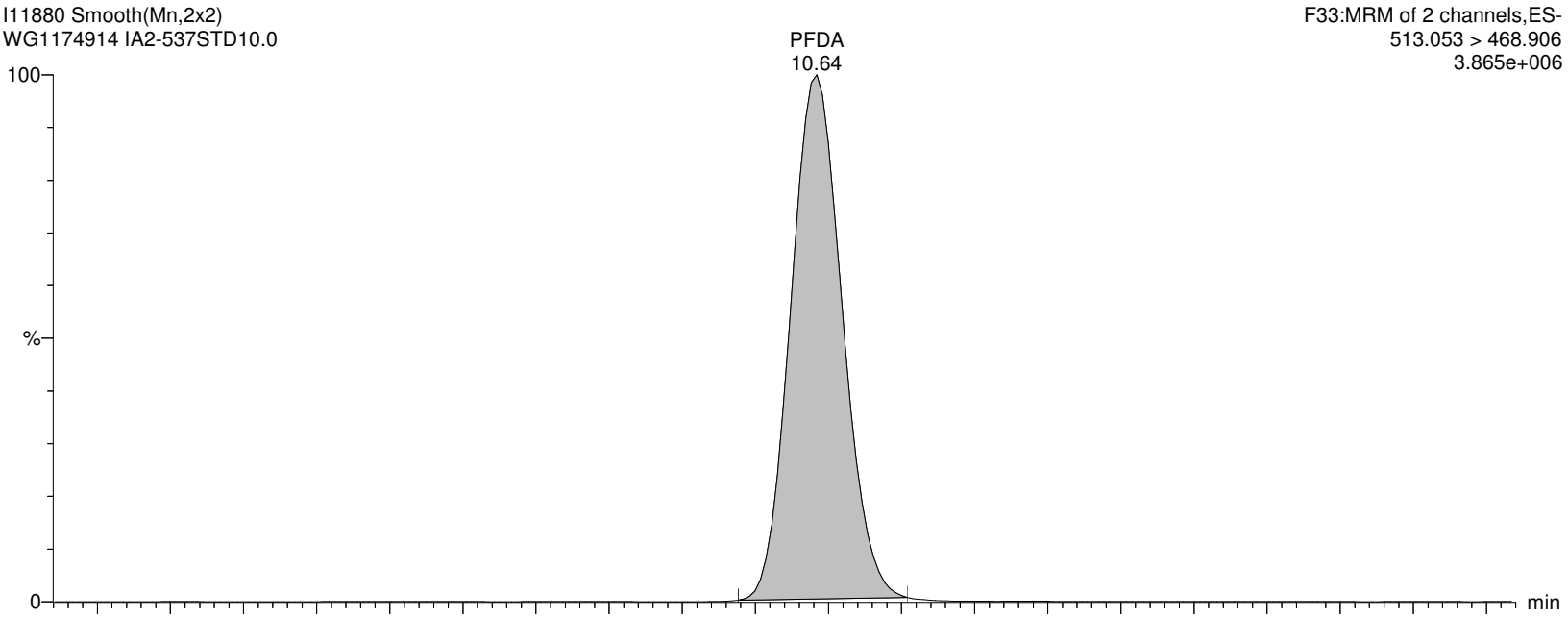

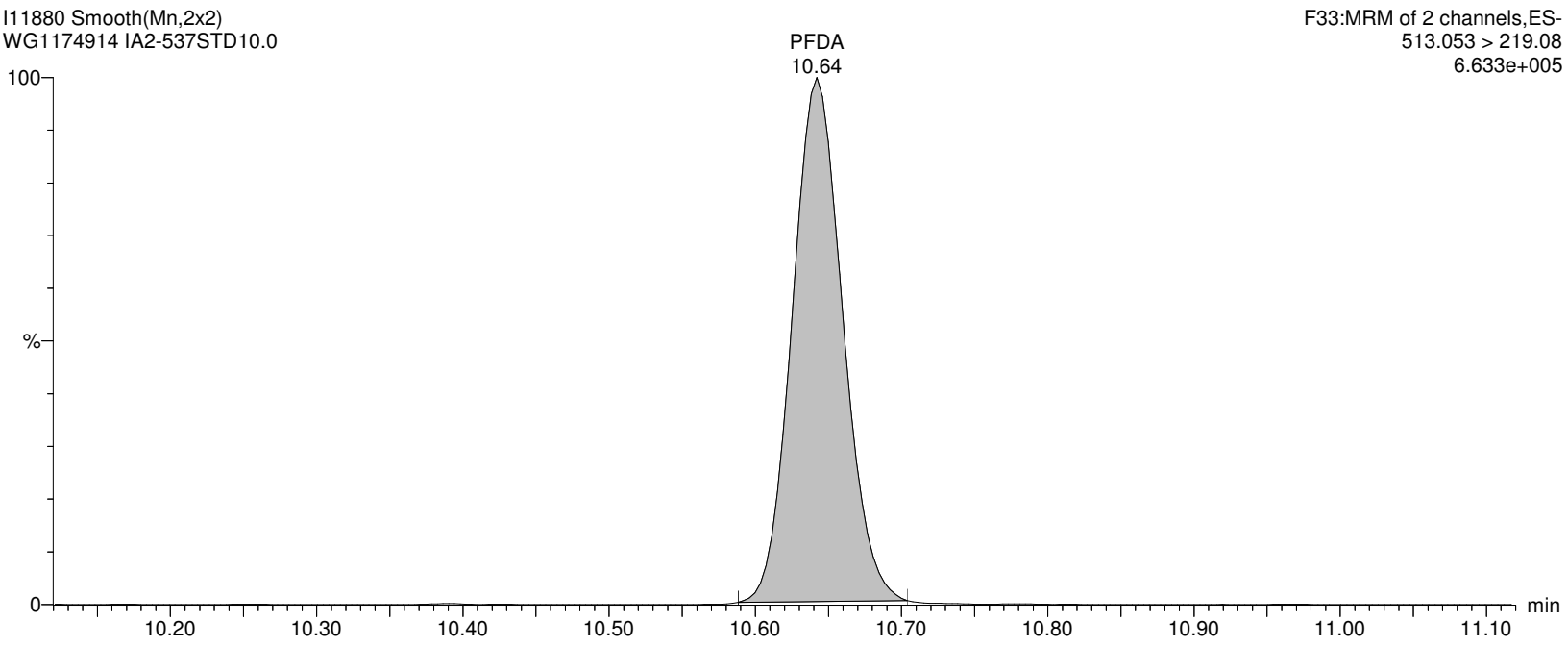

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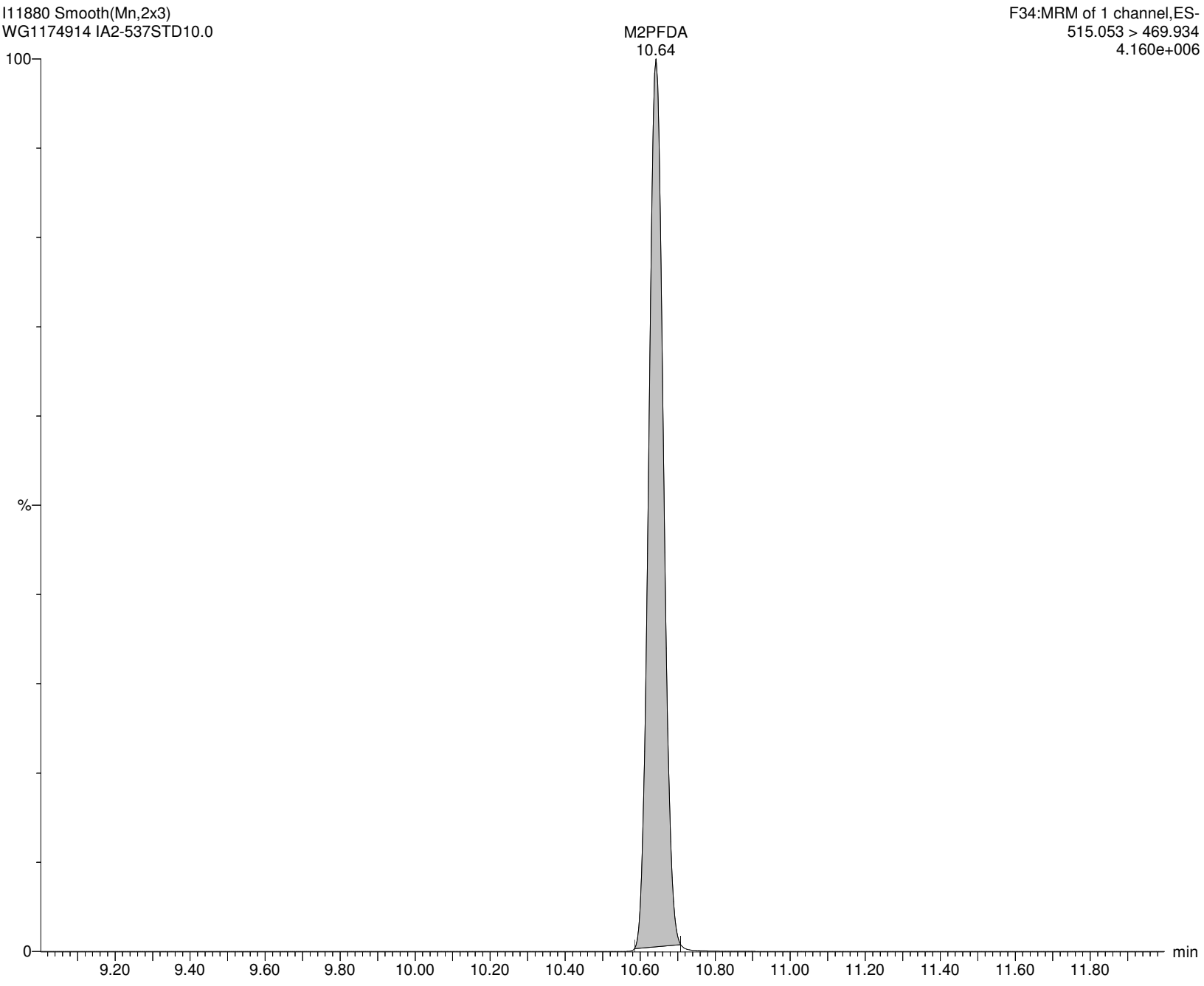
M2PFDA



all concentration units in (ng/mL)

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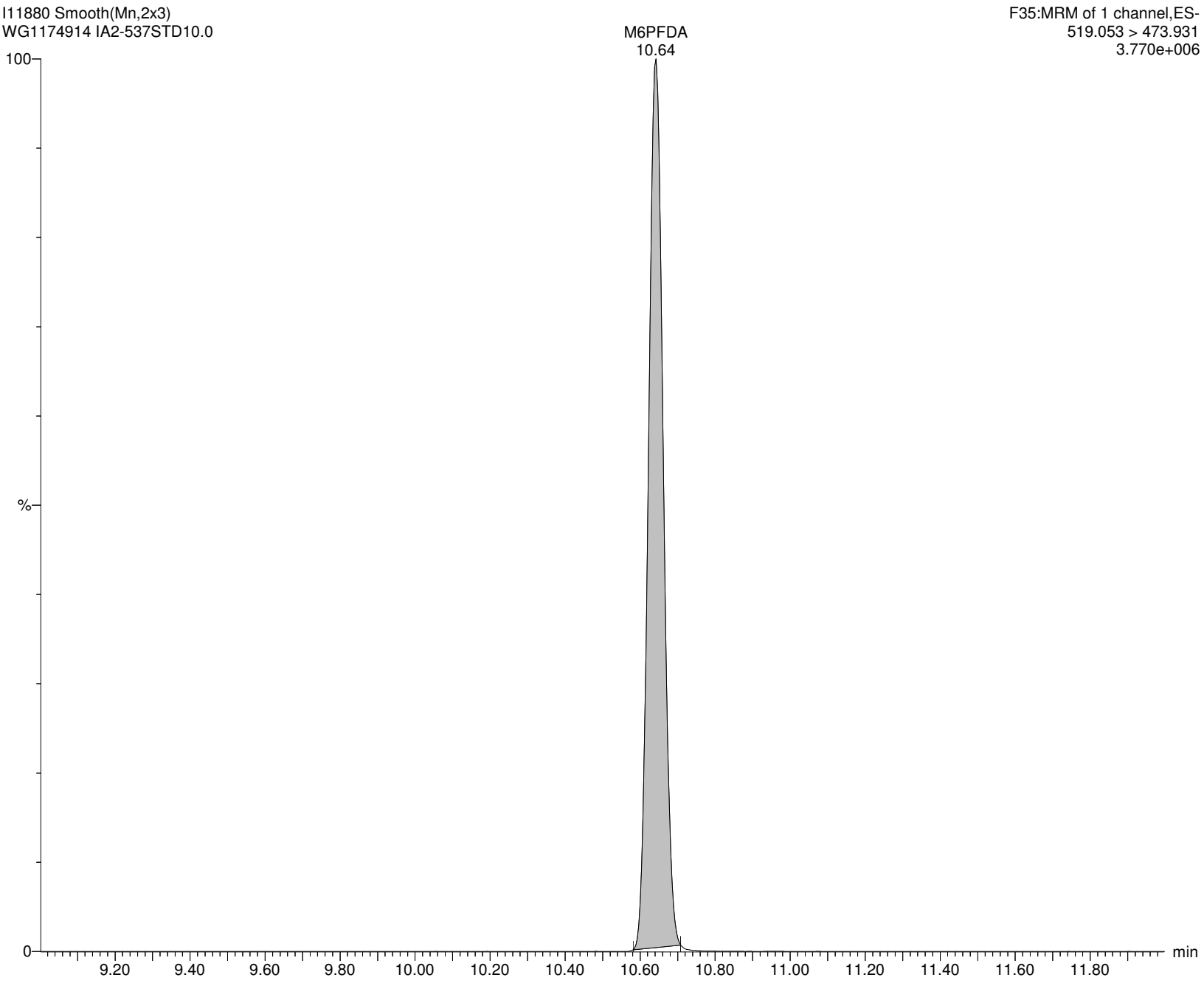

all concentration units in (ng/mL)

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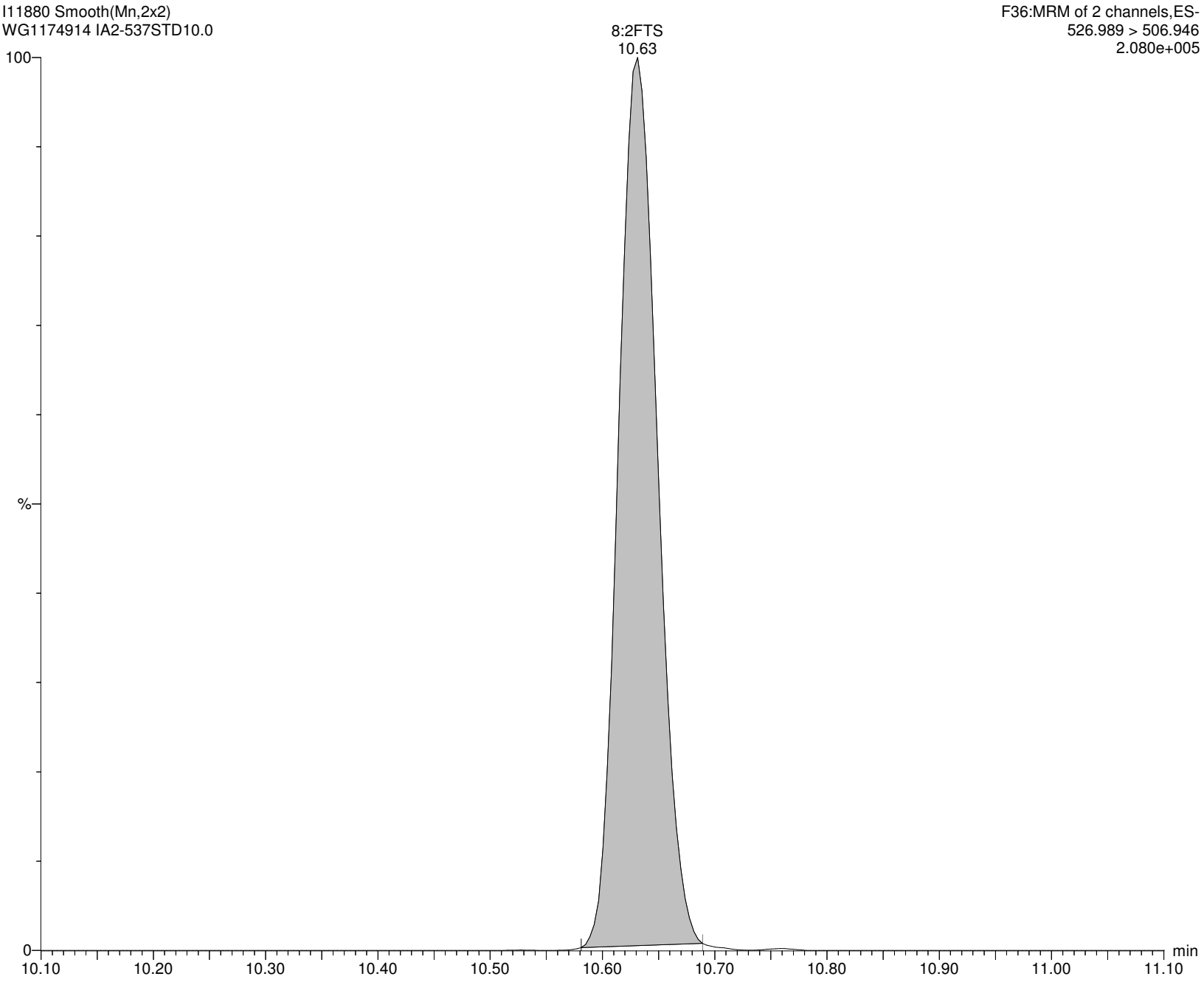
8:2FTS



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Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

Name: I11880
ID: IA2-537STD10.0
Date: 01-Nov-2018
Time: 17:35:32
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
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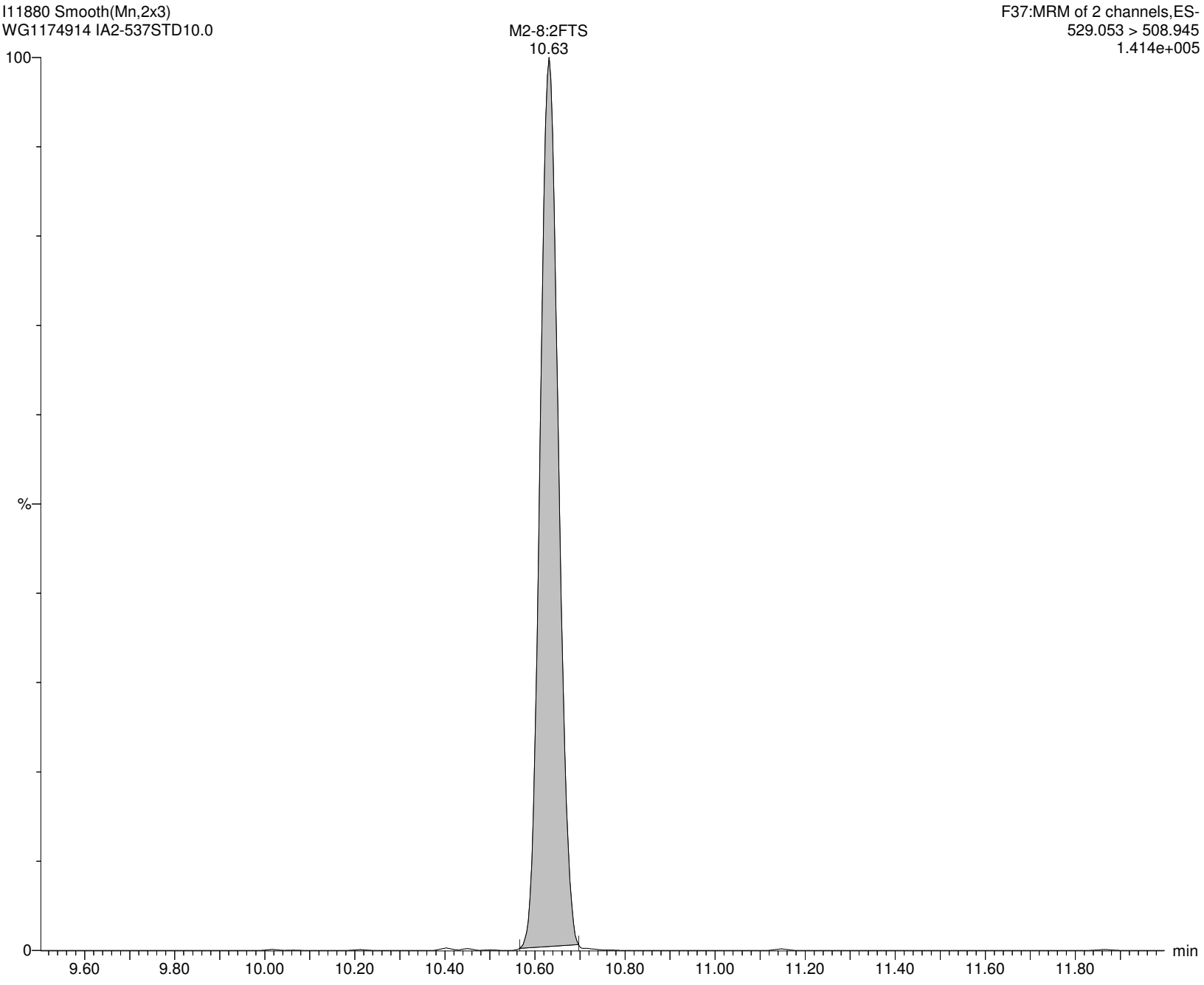

all concentration units in (ng/mL)

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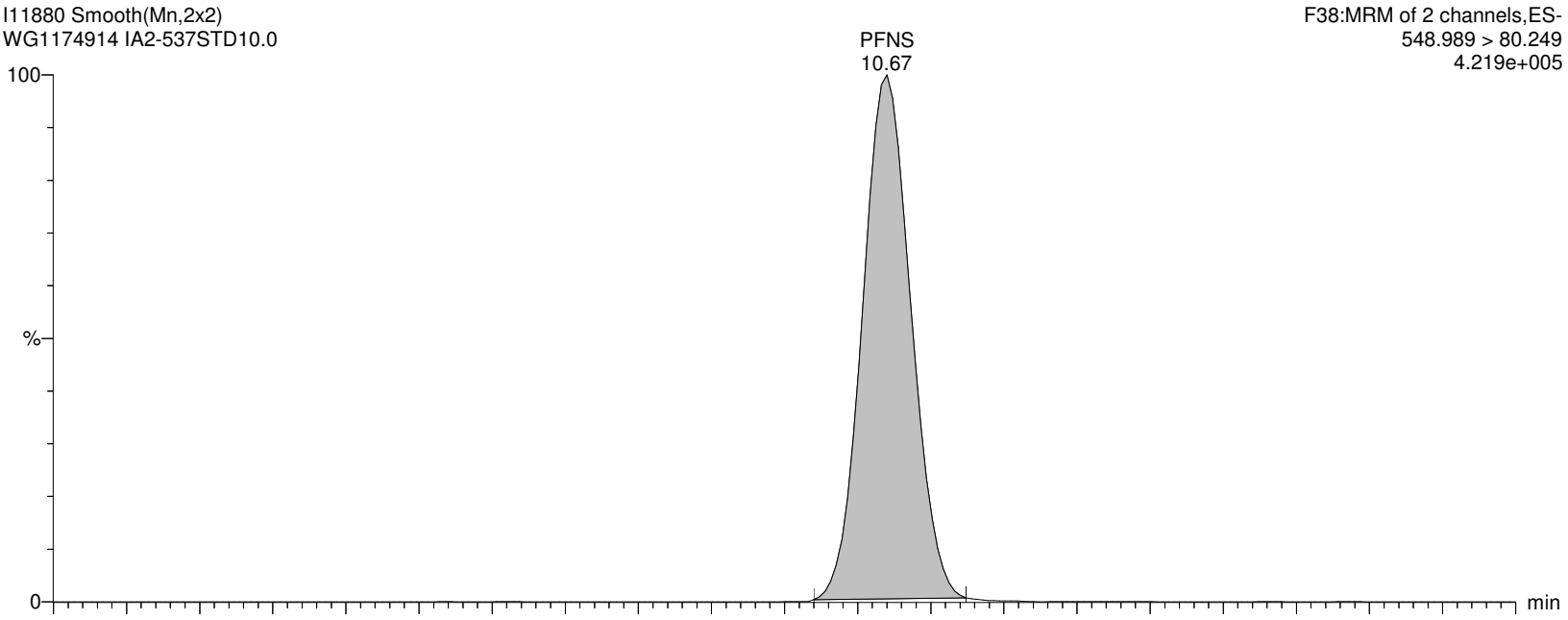

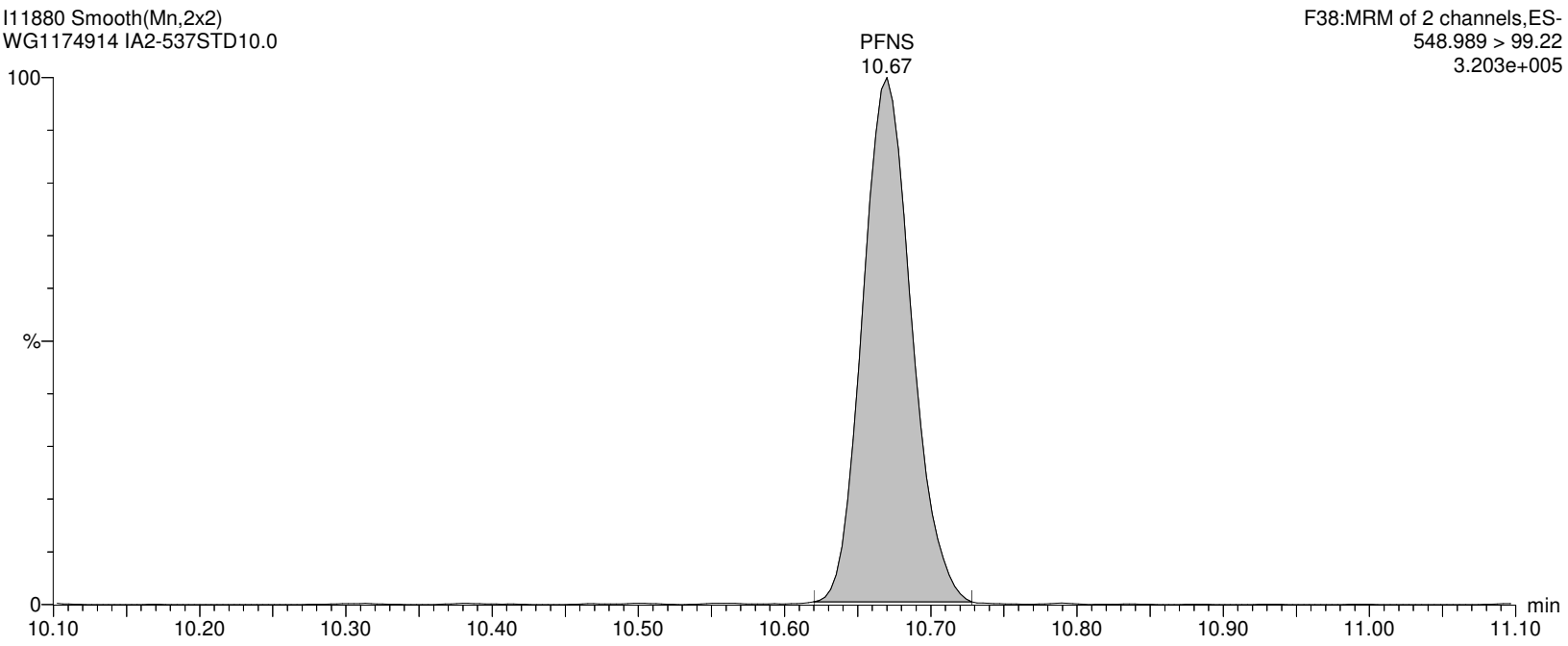

all concentration units in (ng/mL)

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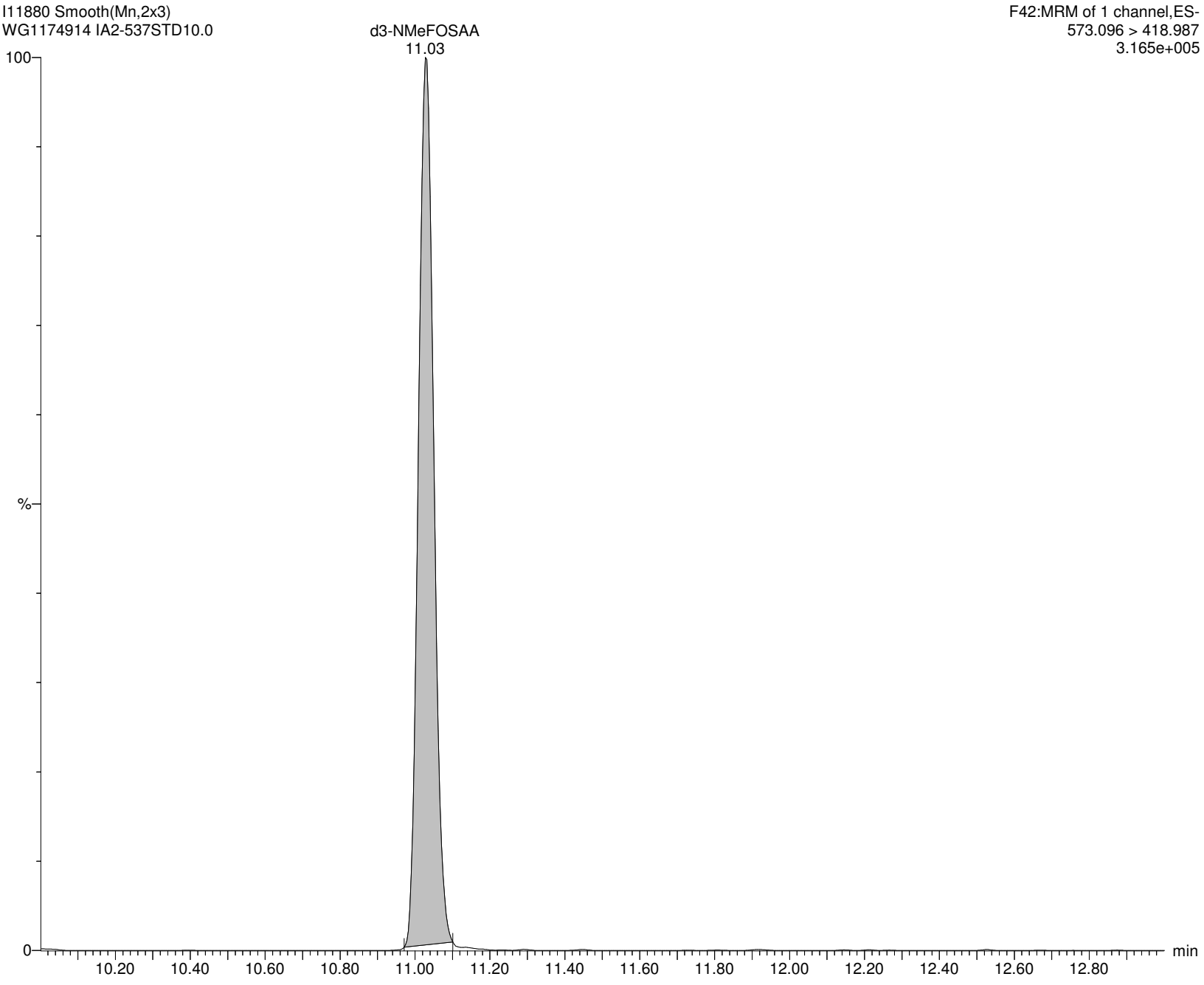

all concentration units in (ng/mL)

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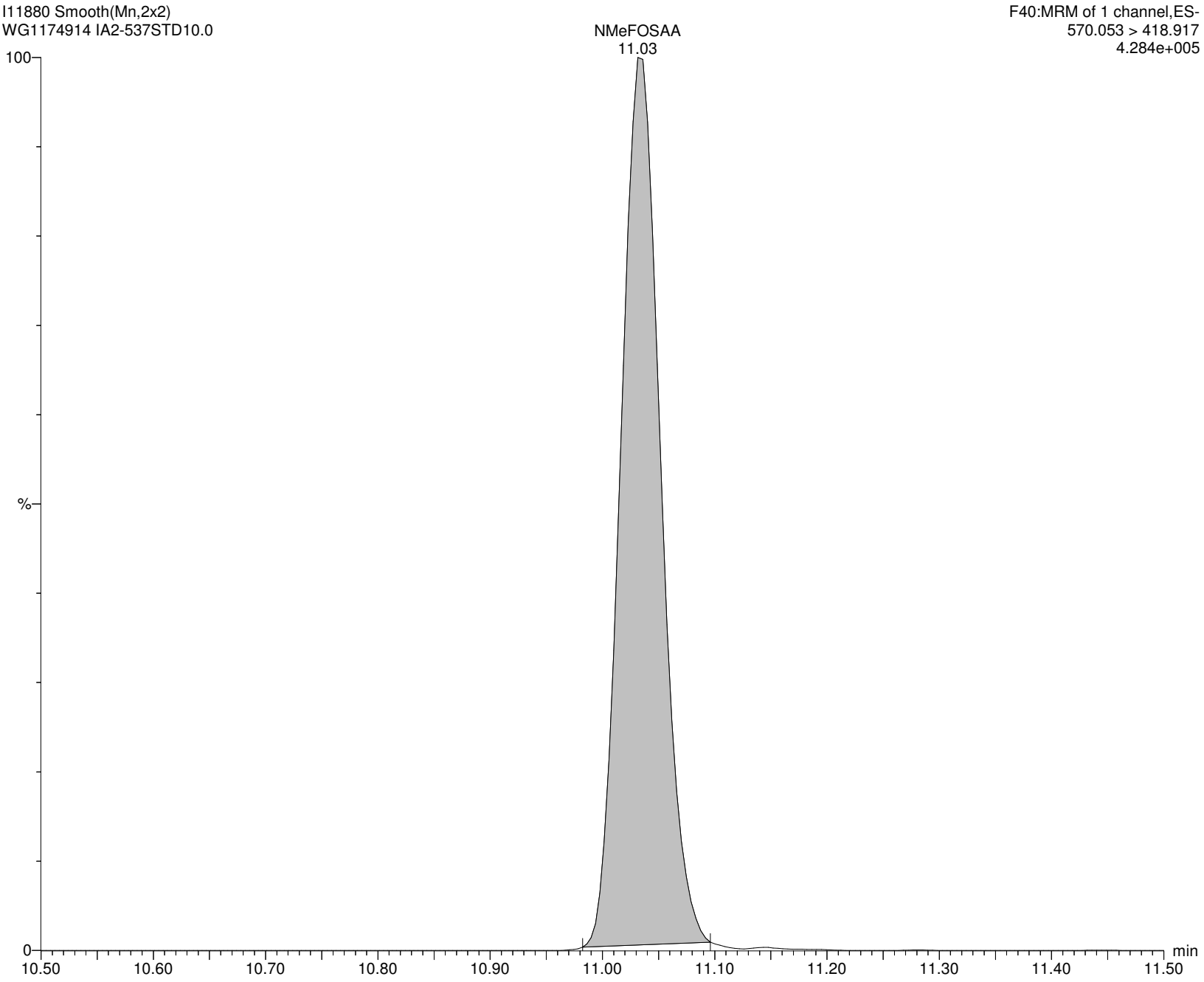

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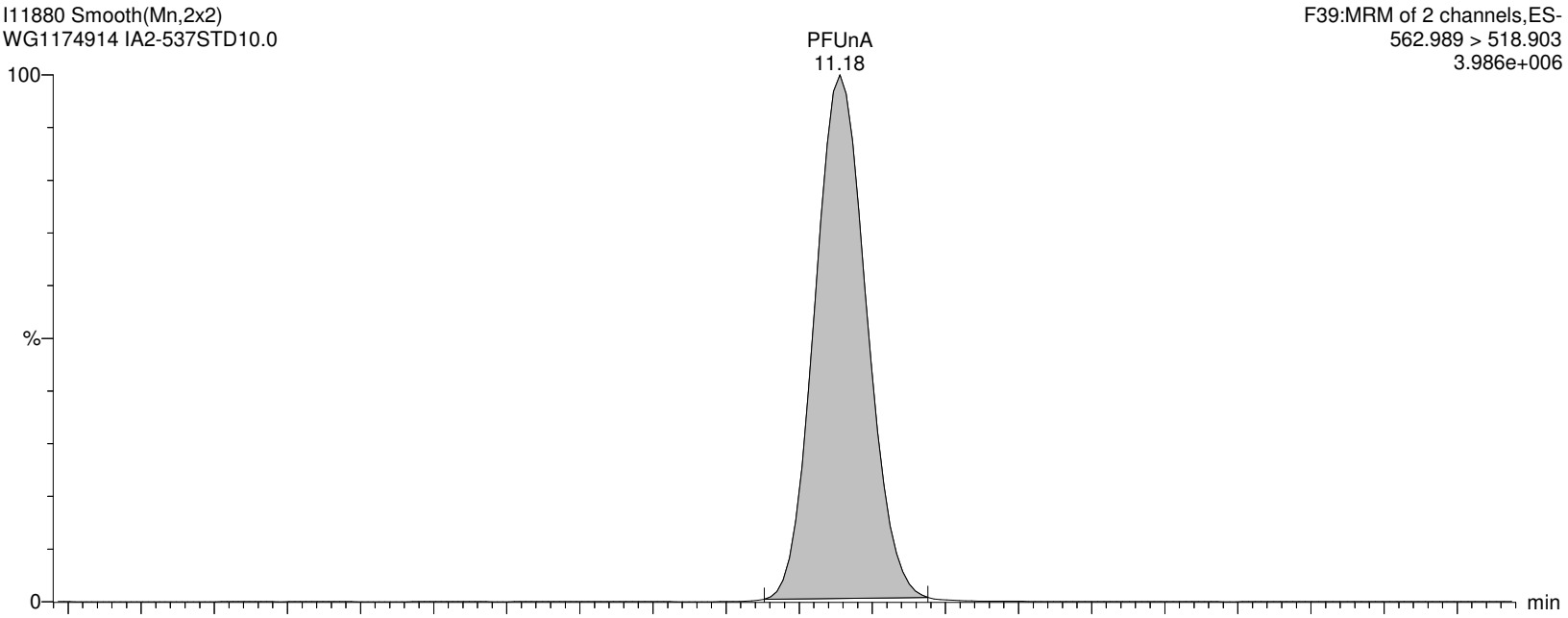

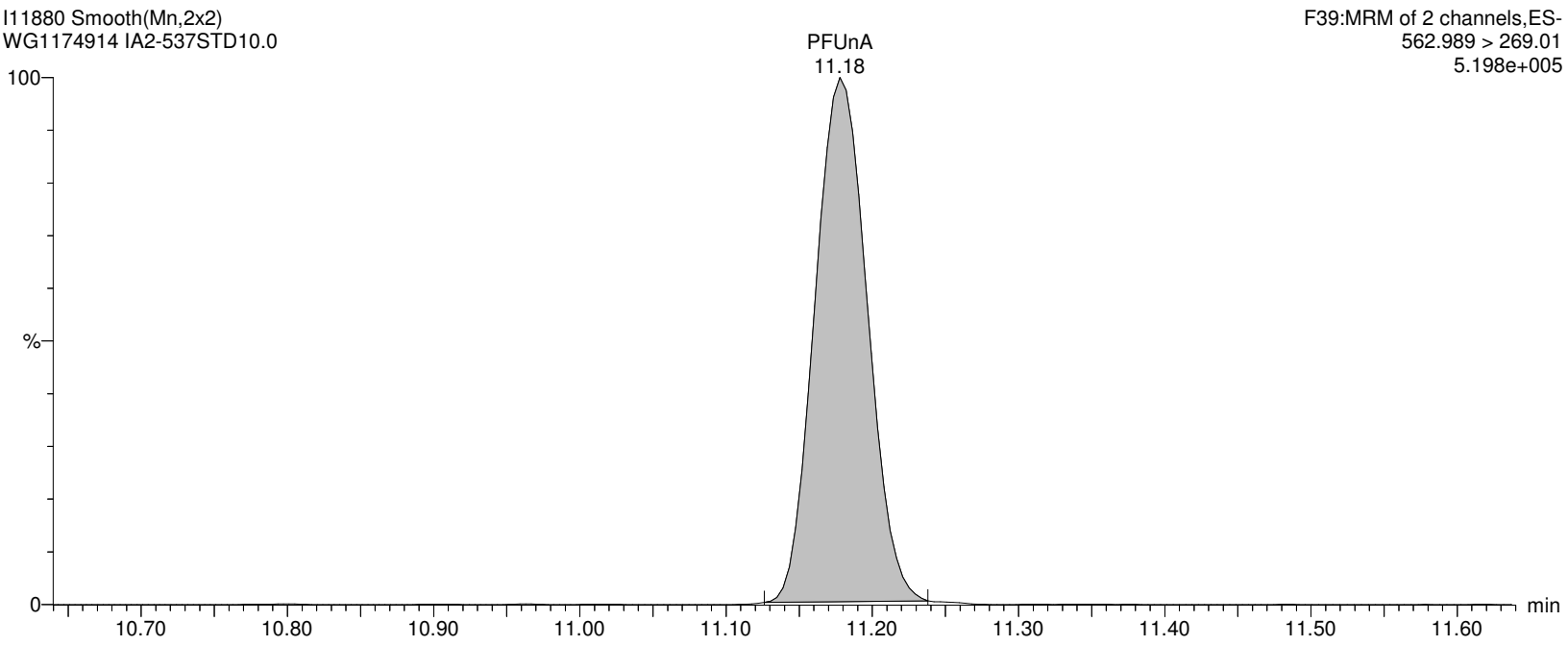

all concentration units in (ng/mL)

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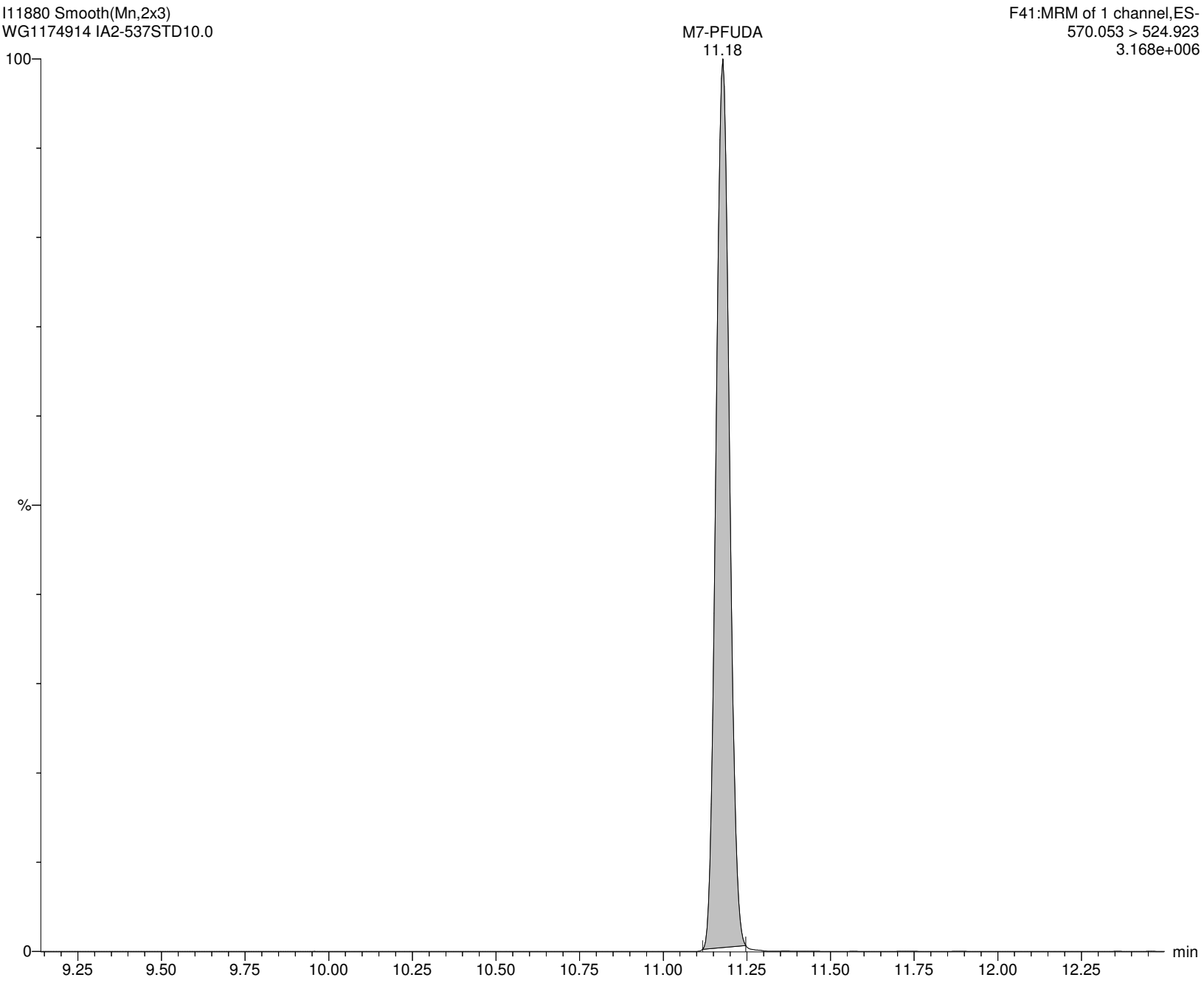

all concentration units in (ng/mL)

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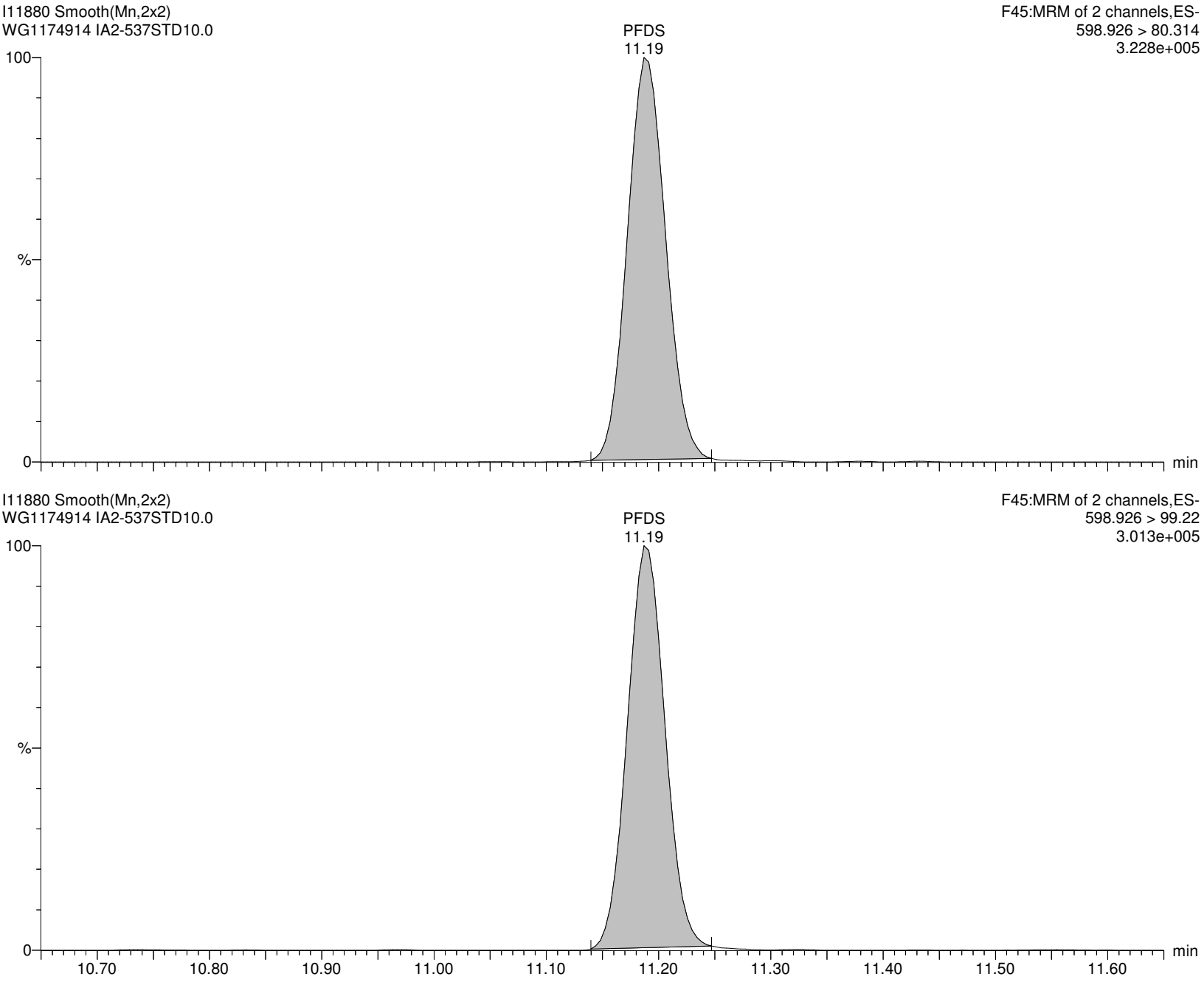

all concentration units in (ng/mL)

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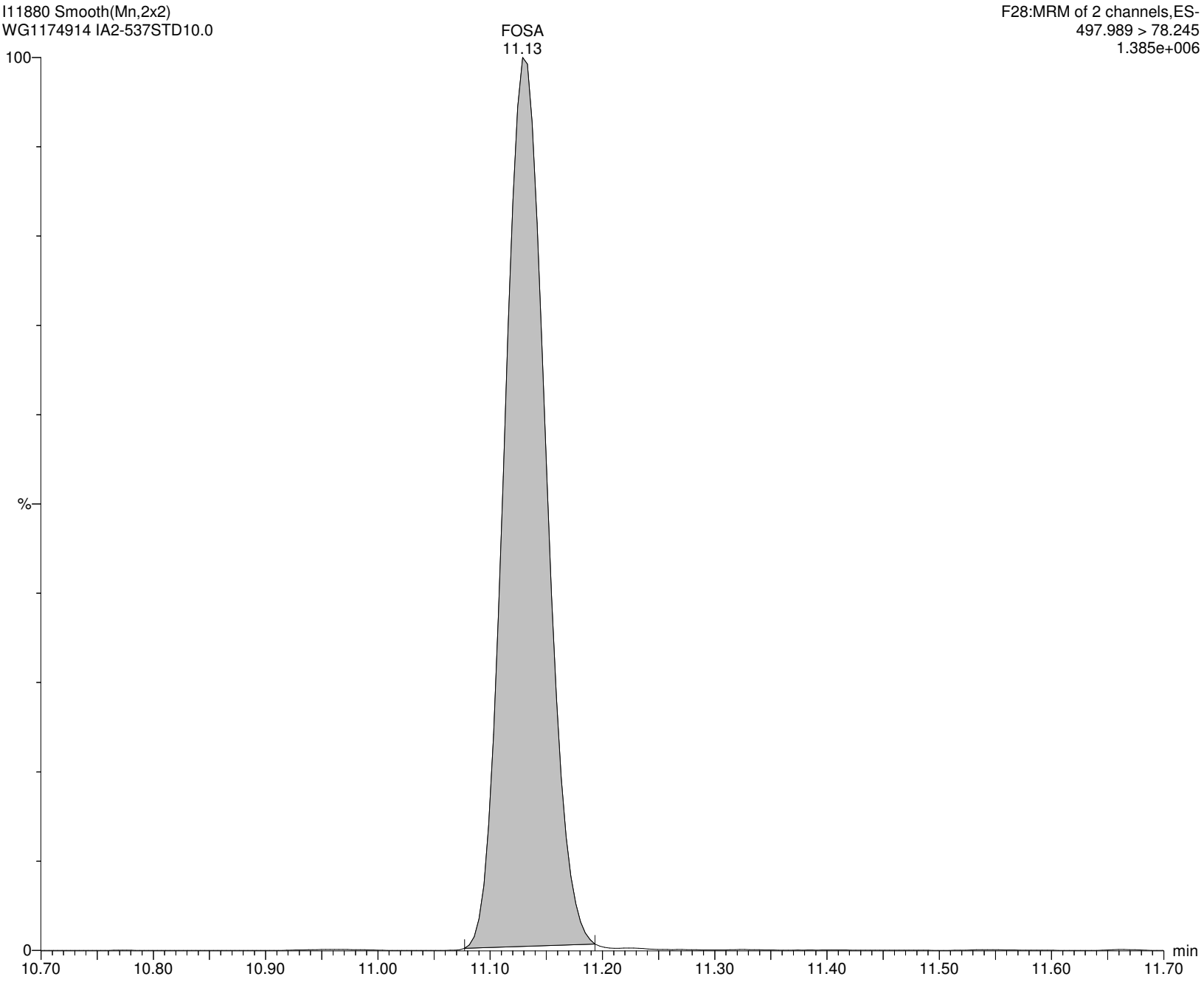

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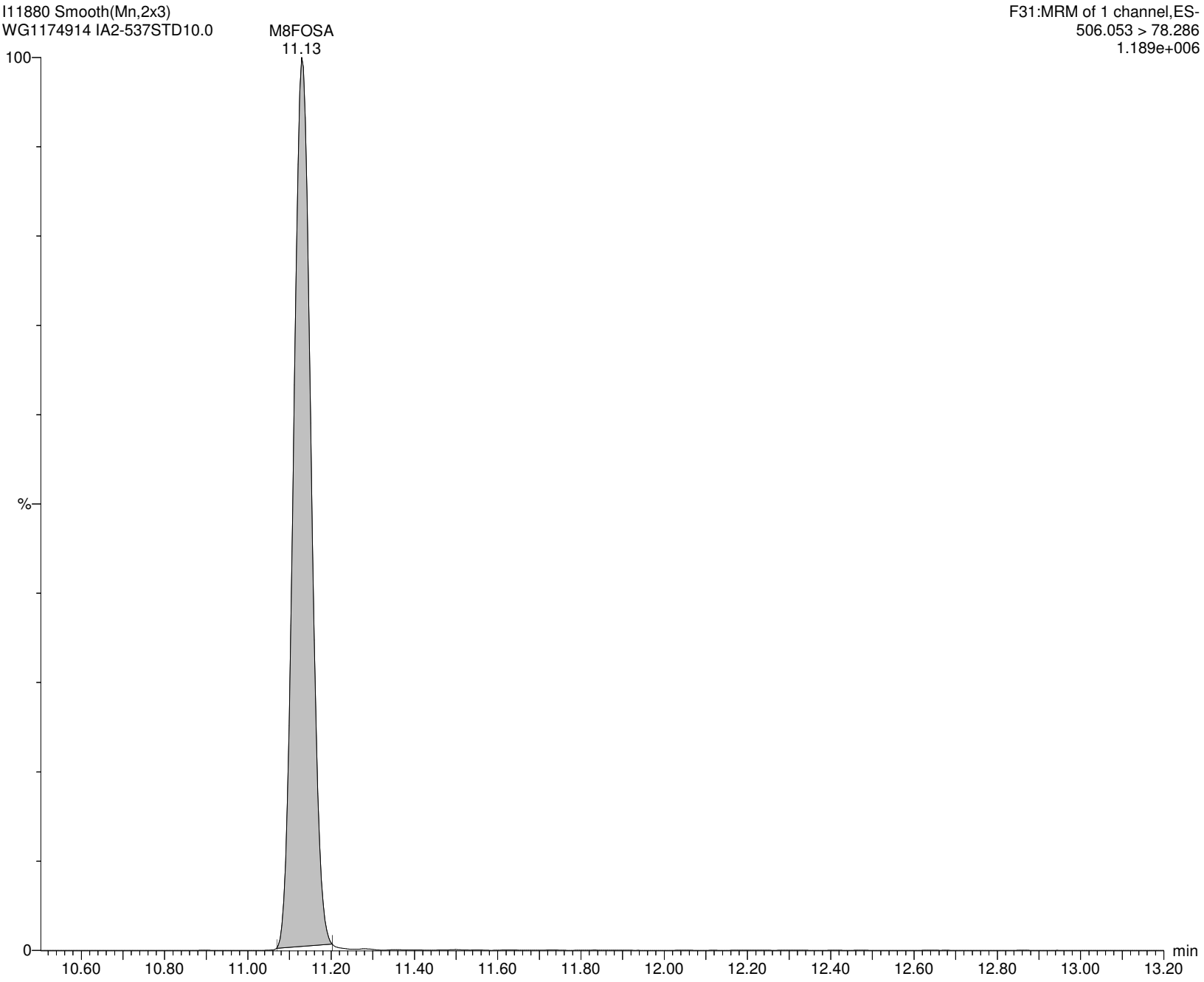

all concentration units in (ng/mL)

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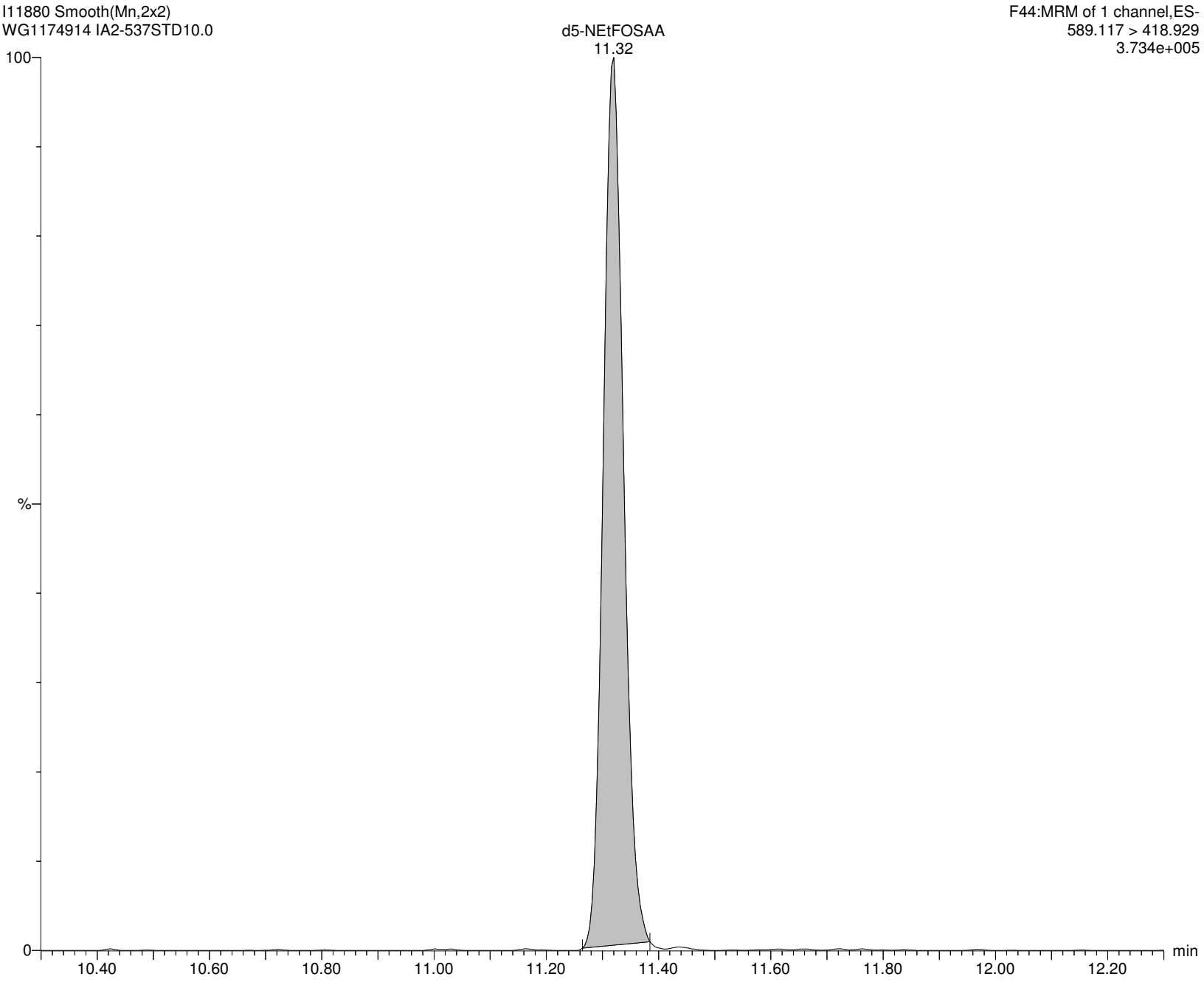

all concentration units in (ng/mL)

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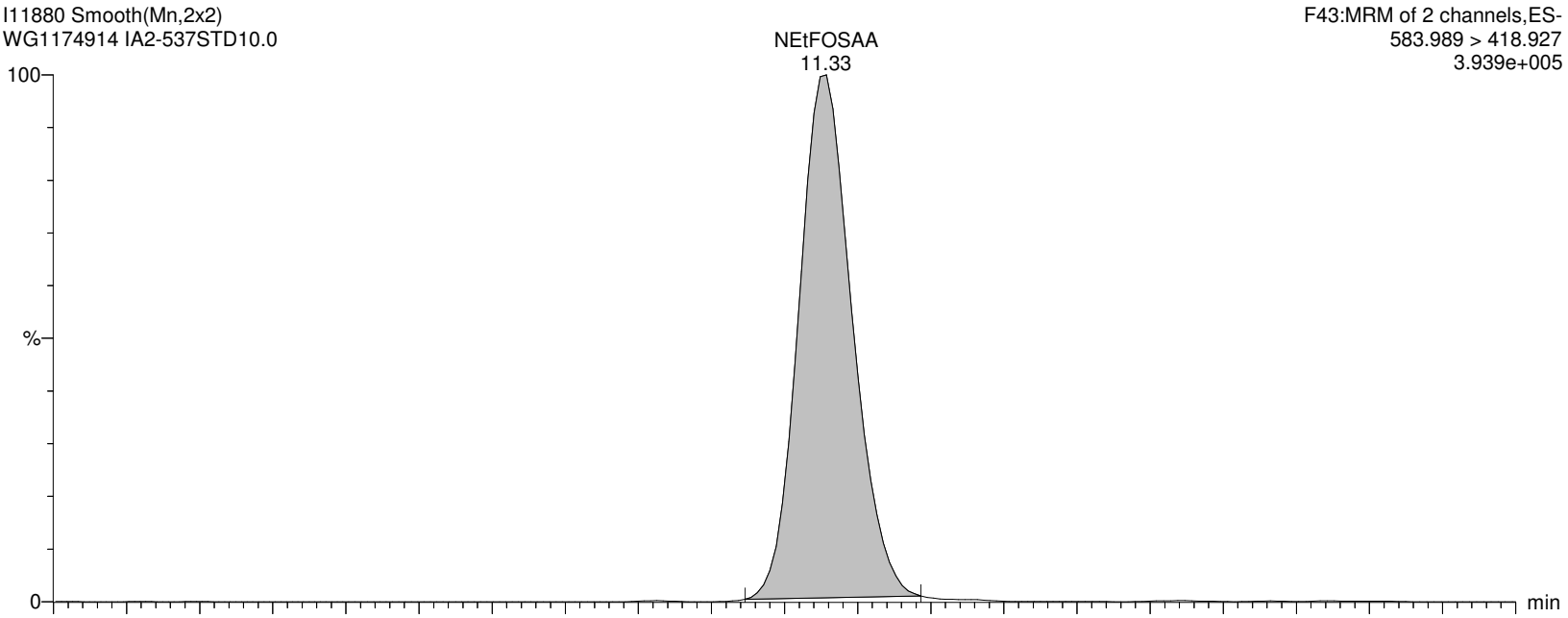

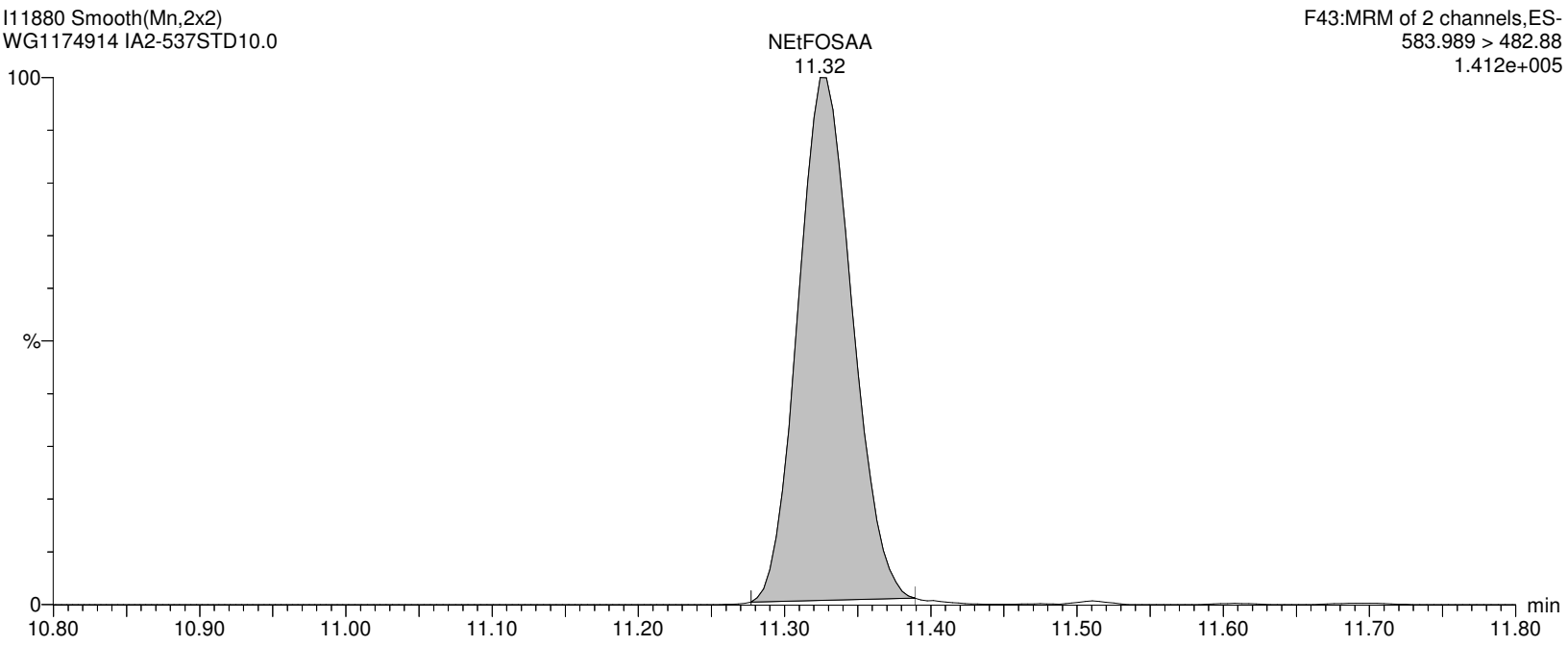

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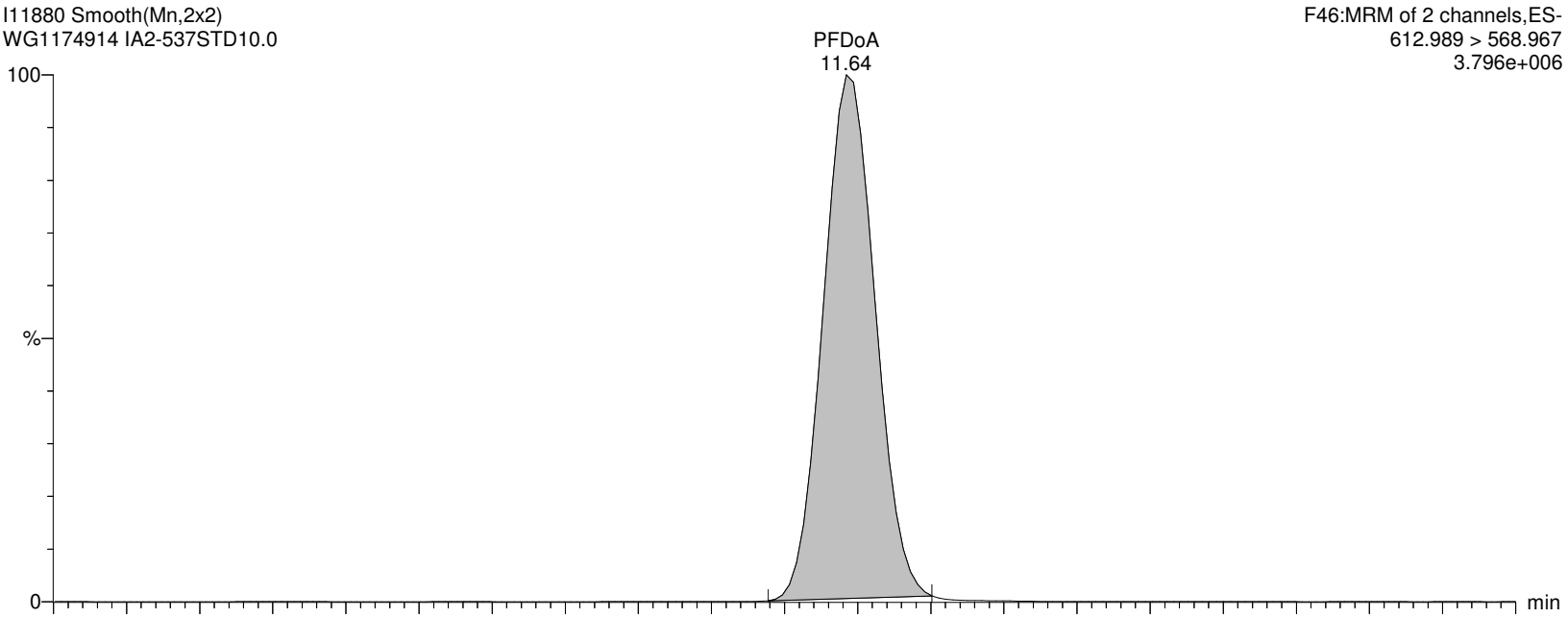

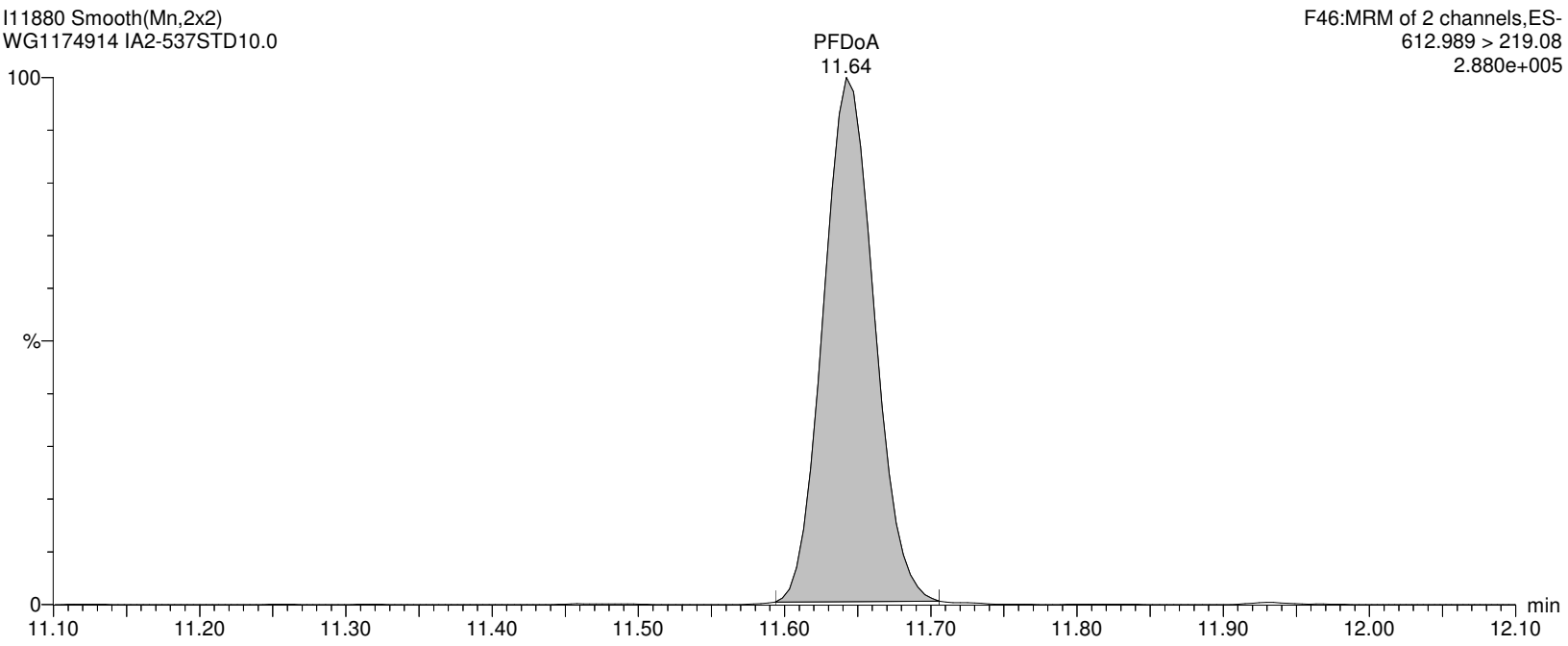

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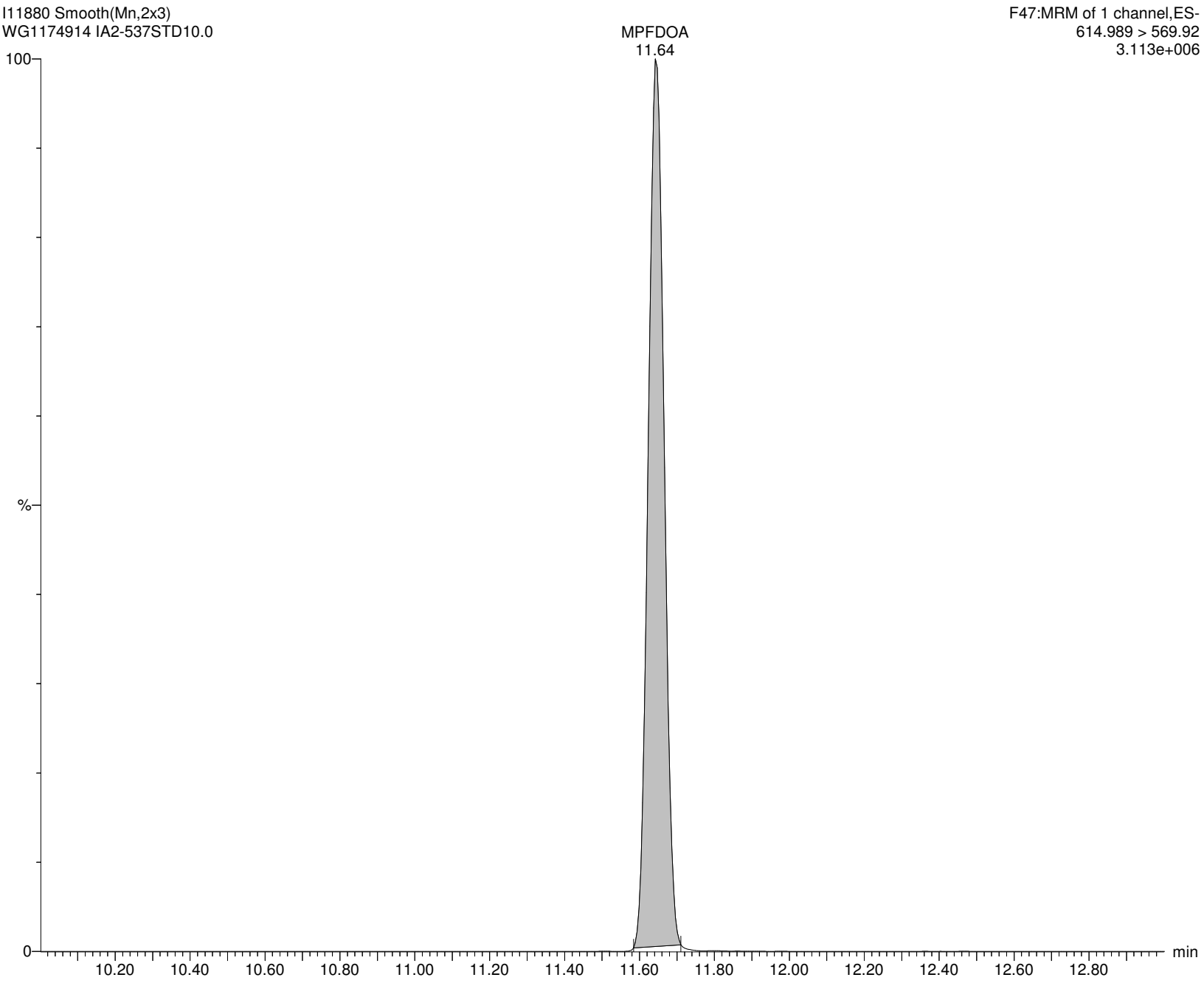

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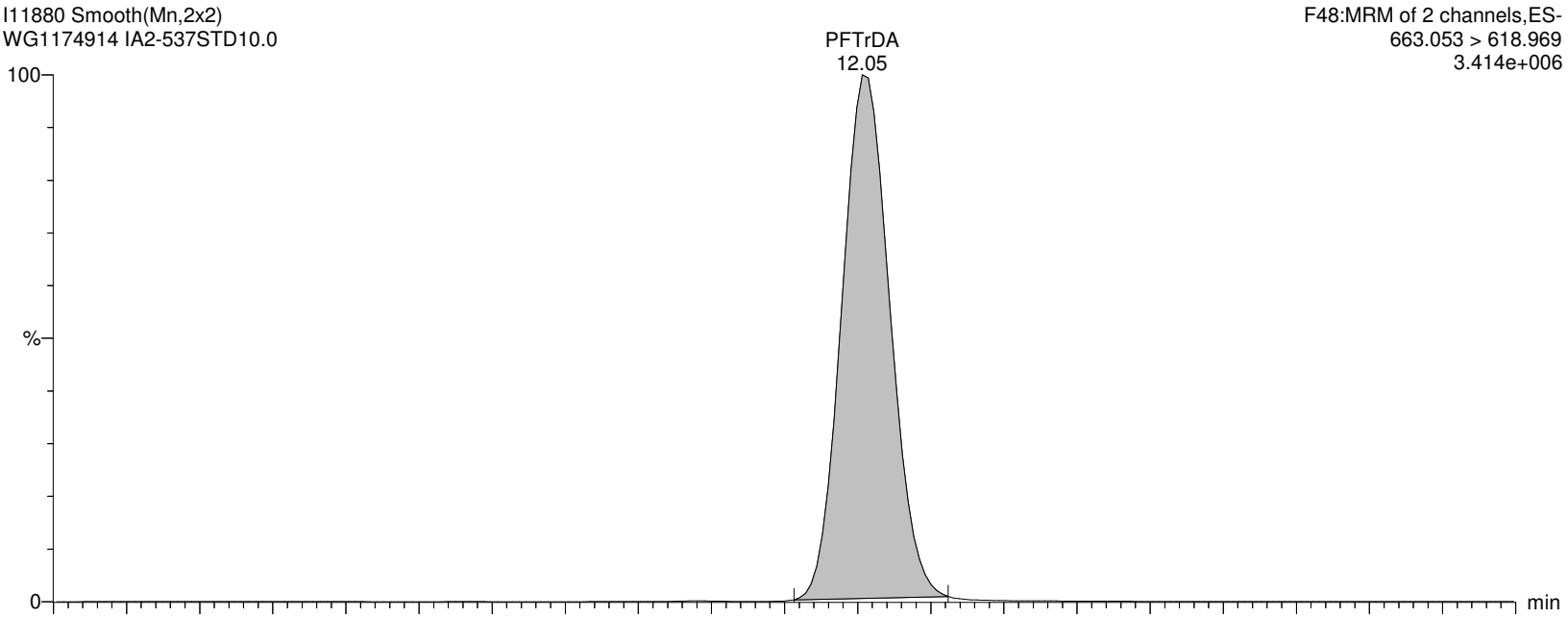

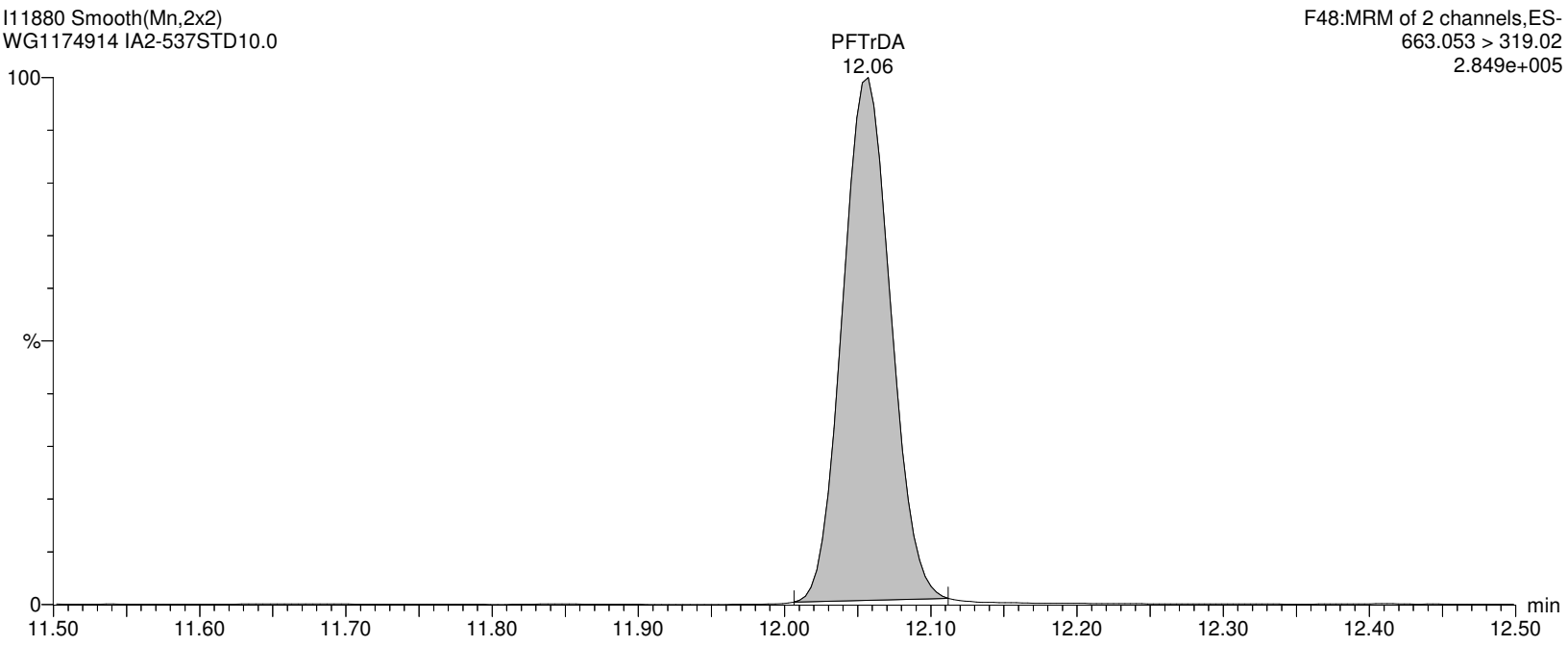

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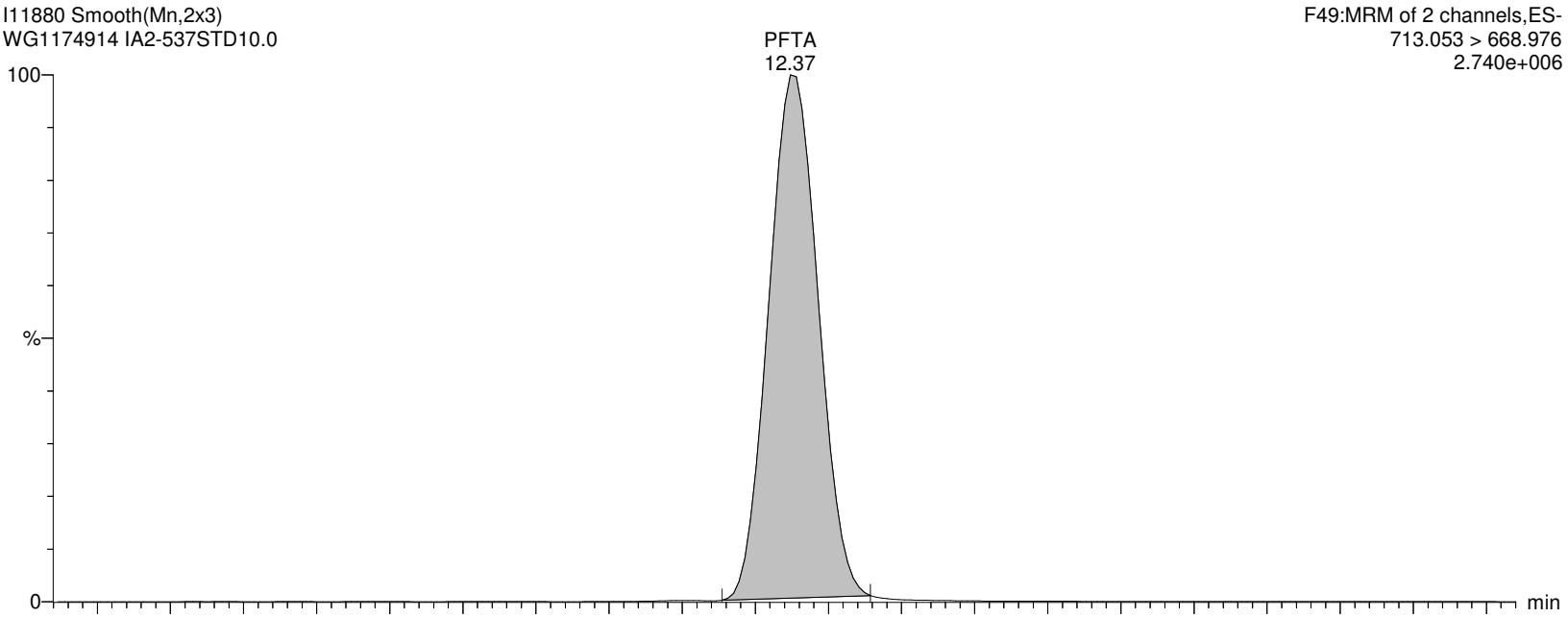

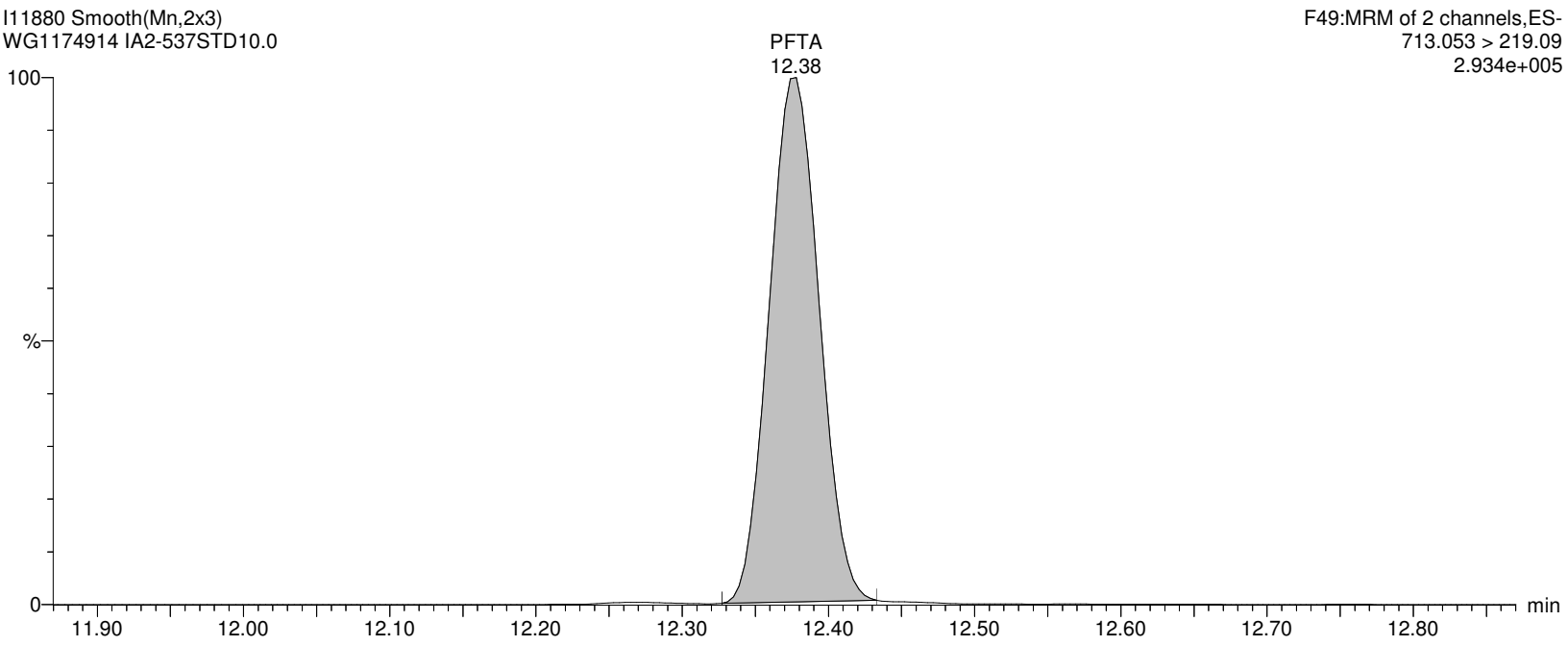

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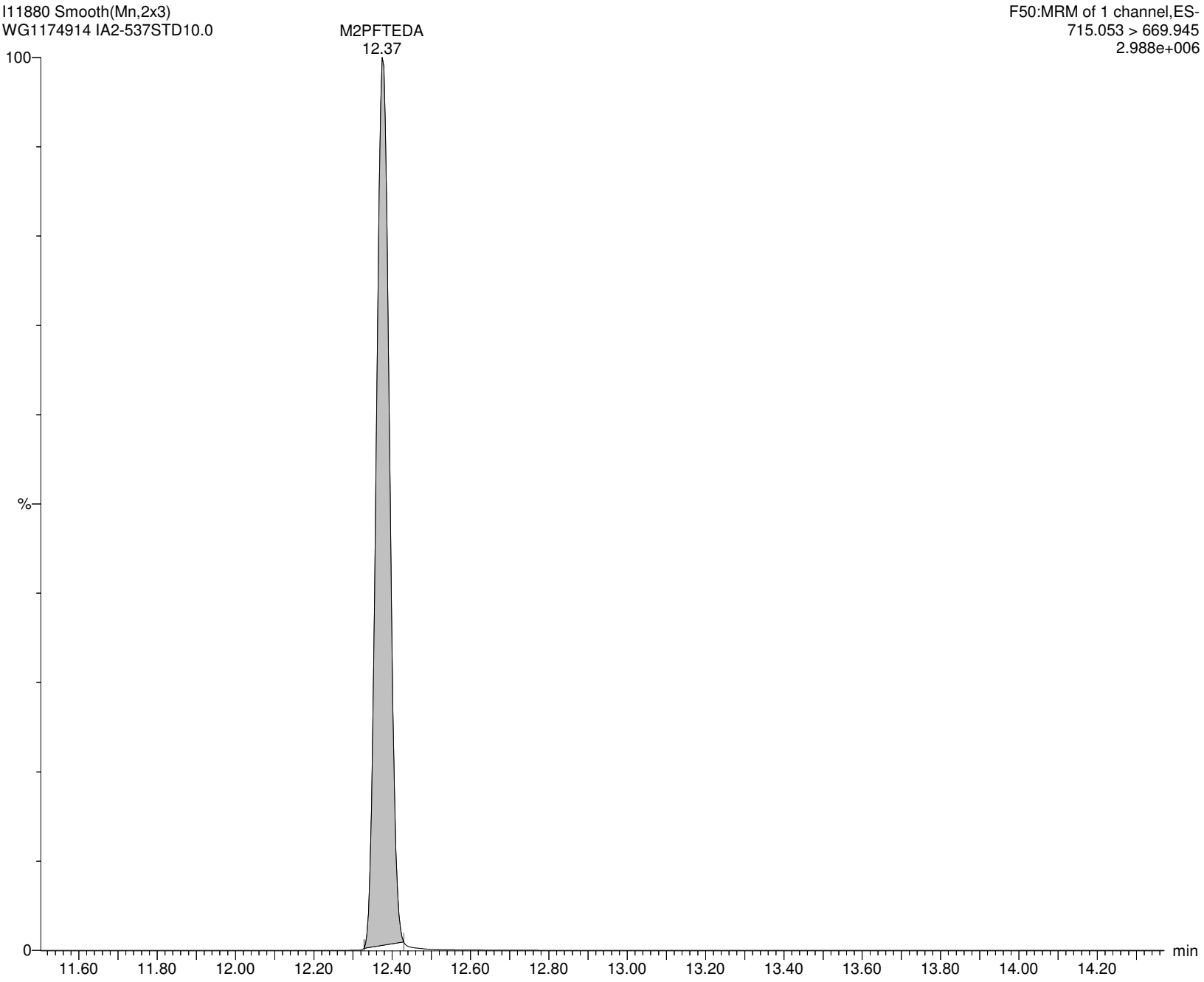

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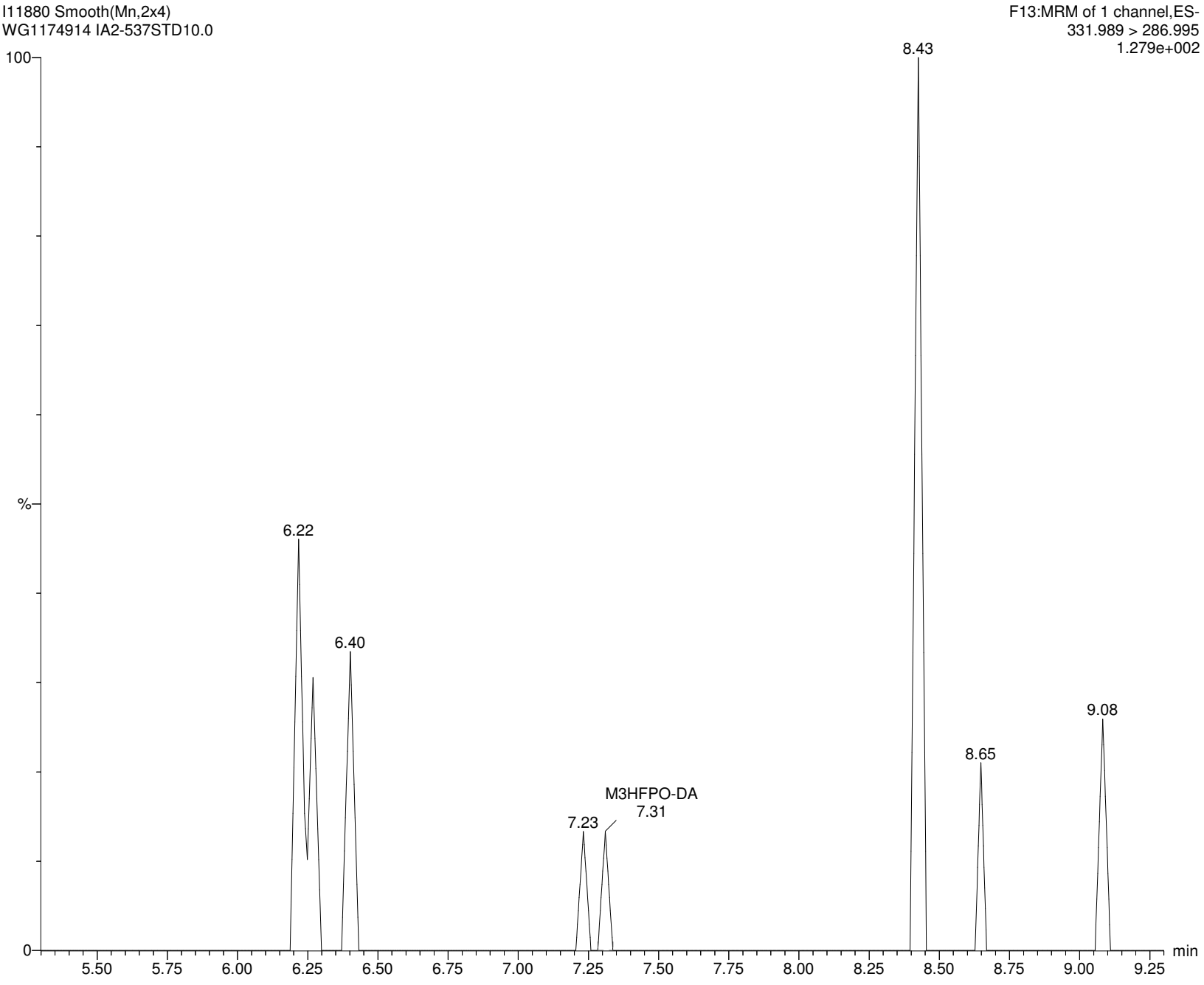
M3HFPO-DA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:21 Eastern Daylight Time

Name: I11880
ID: IA2-537STD10.0
Date: 01-Nov-2018
Time: 17:35:32
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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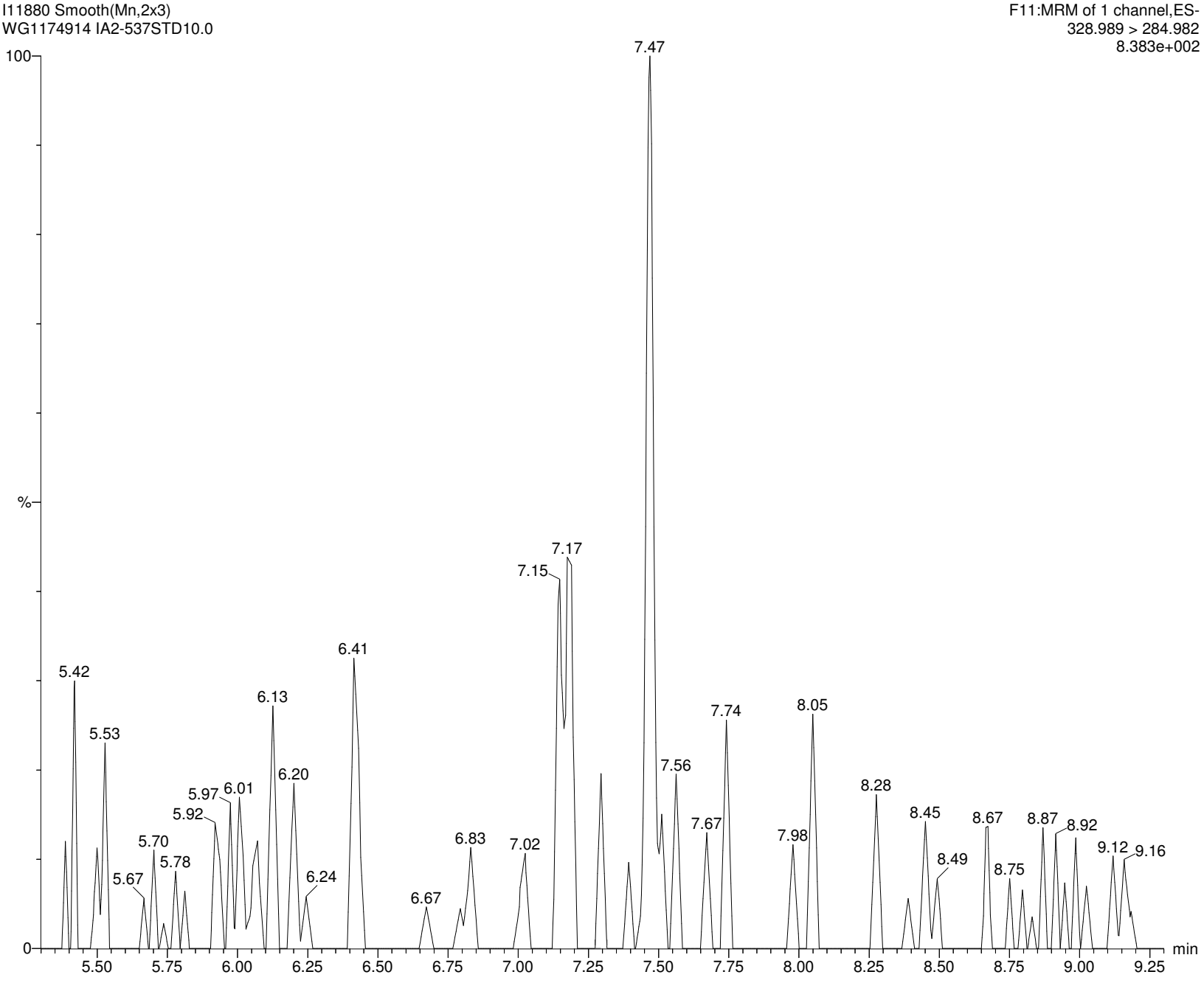

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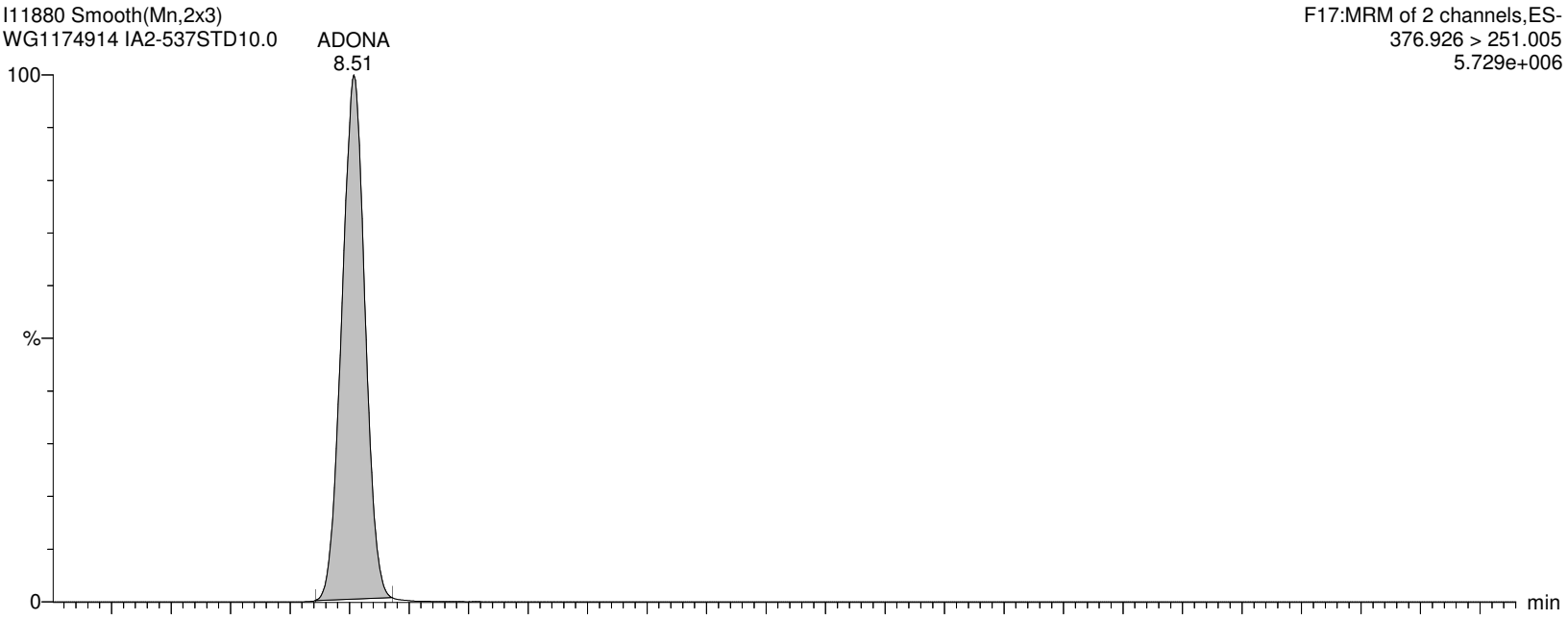

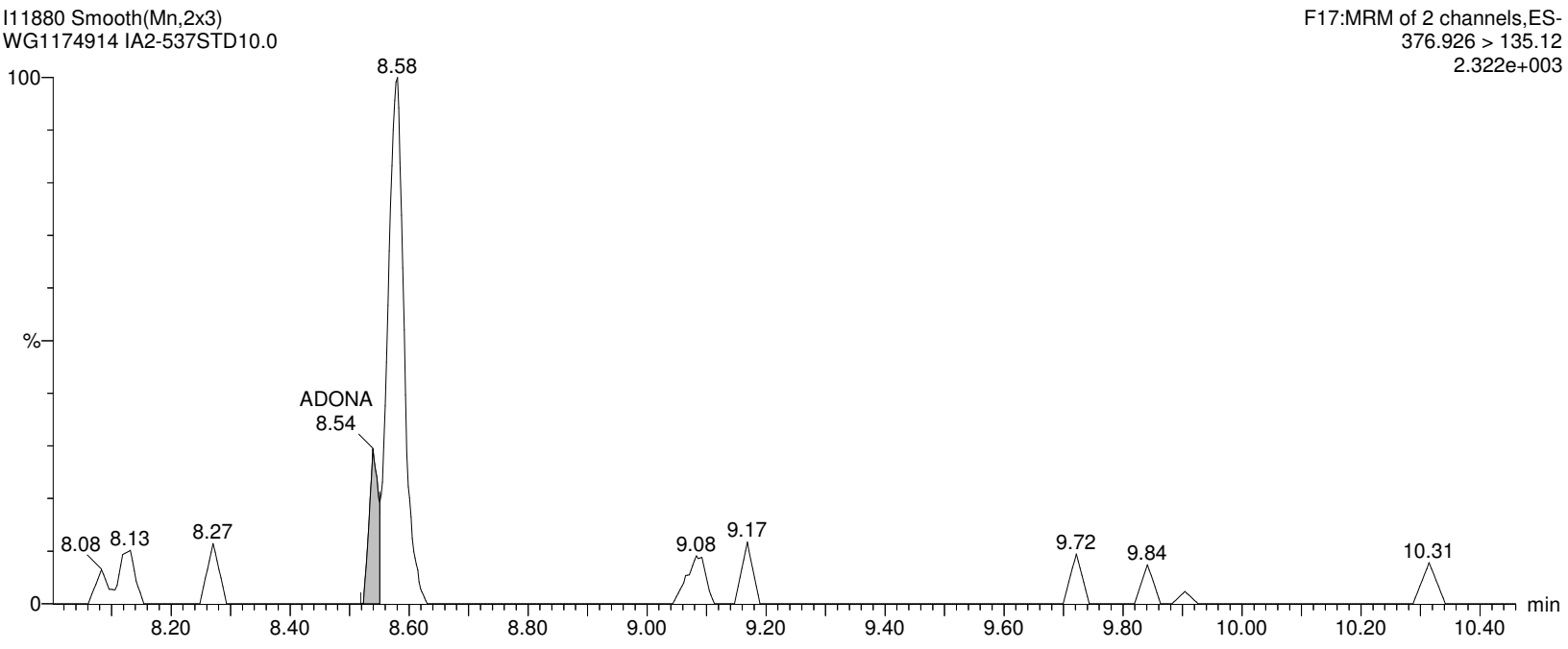

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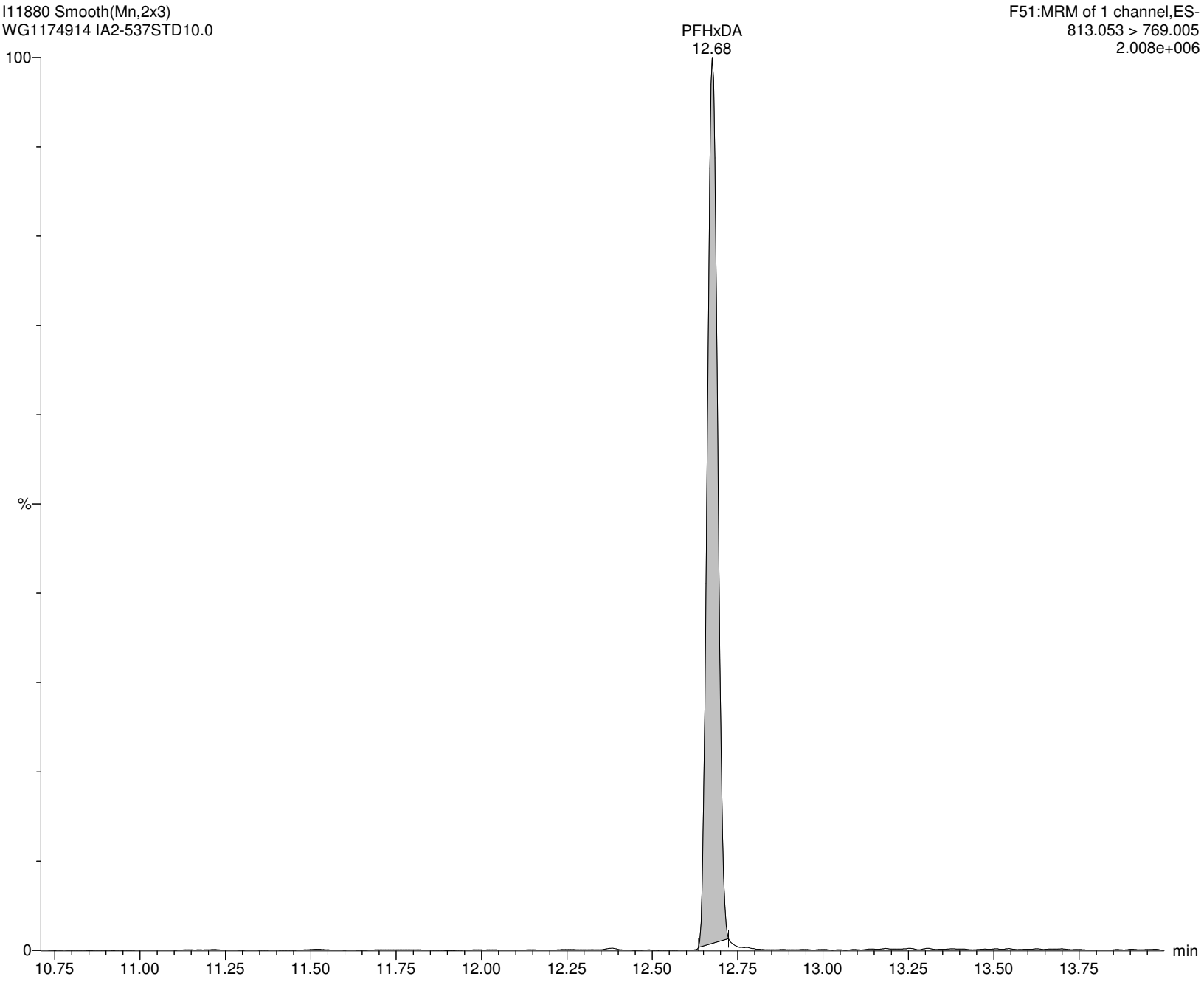

all concentration units in (ng/mL)

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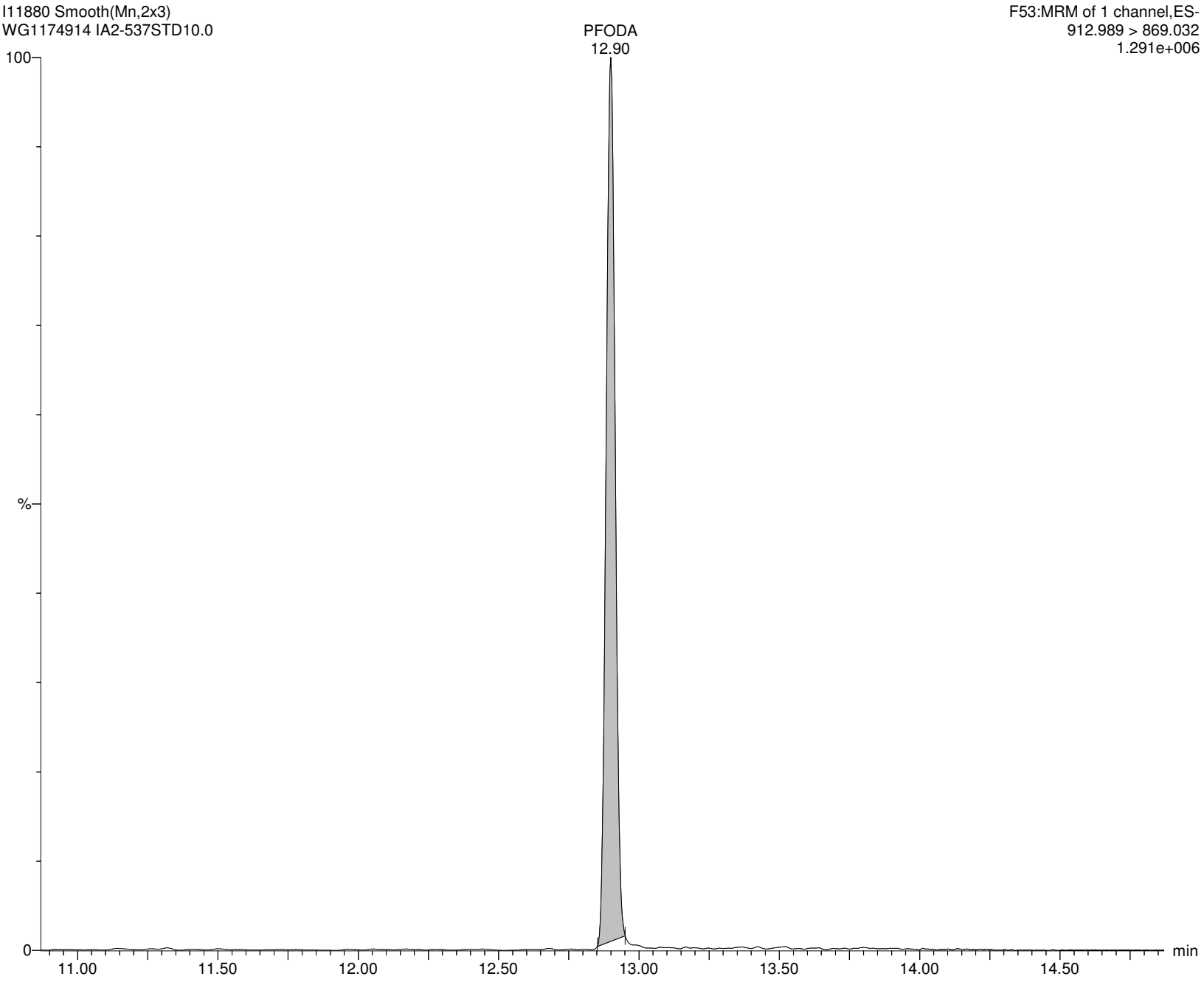

all concentration units in (ng/mL)

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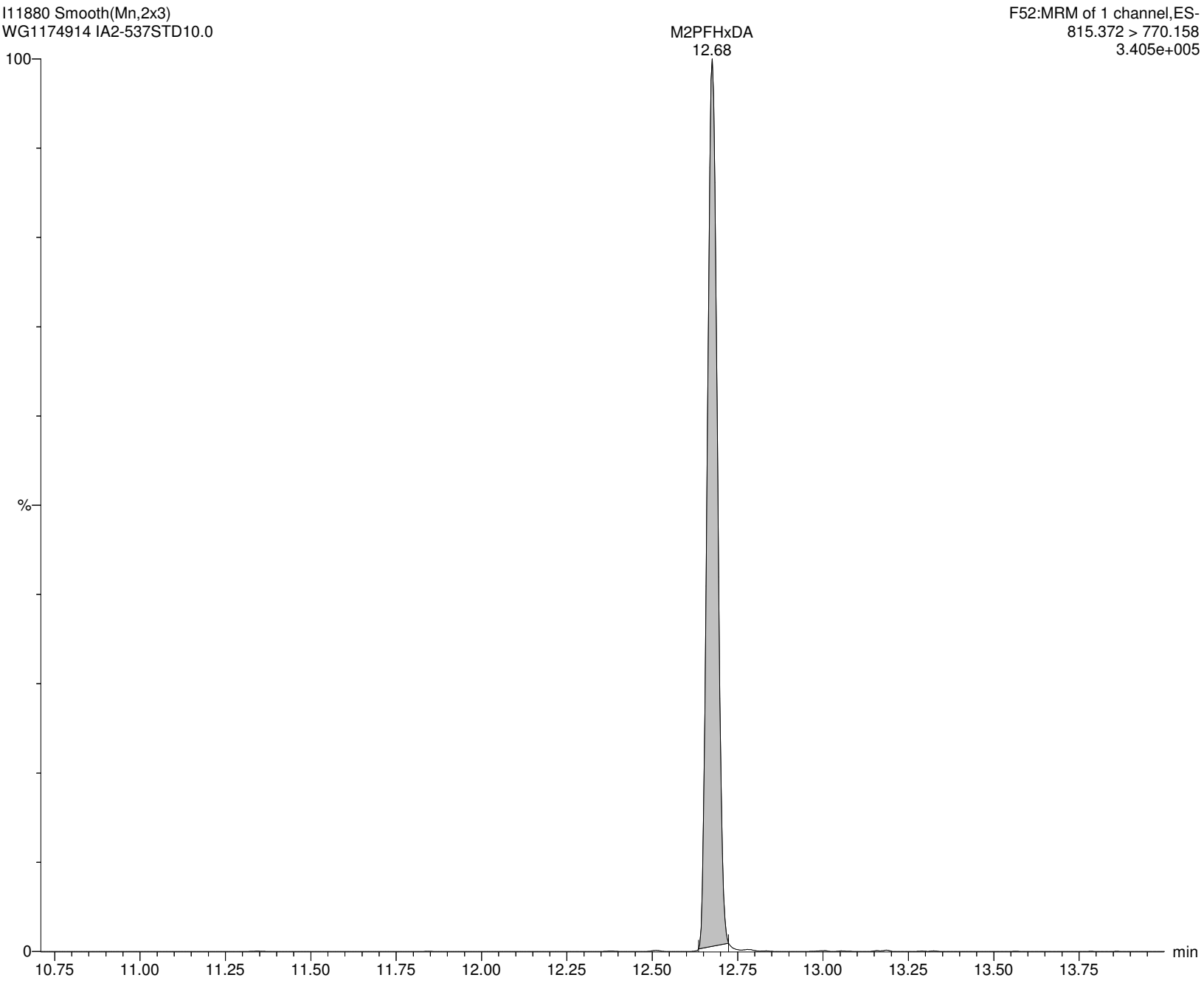
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2PFHxDA



all concentration units in (ng/mL)

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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD50.0
Name: I11881
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.12	212.926 > 169.111	379916		50.084		na	100.2
2	M3PFBA	INT STD	2.12	215.926 > 172.122	93852		10.139		na	101.4
3	MPFBA	INT STD	2.12	216.926 > 172.137	86778		9.734		na	97.3
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	542937		50.330		na	100.7
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	114461		9.949		na	99.5
6	PFBS	375-73-5	5.77	298.989 > 80.295	79105		43.560		na	98.4
7	M3PFBS	INT STD	5.77	301.989 > 80.254	20484		9.647		na	96.5
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	50698		45.493	1.93	YES	97.3
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	12644		9.600		na	96.0
10	PFHxA	307-24-4	7.04	312.989 > 269.028	661612		49.719	19.30	NO	99.4
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	137119		9.748		na	97.5
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	88458		44.594	2.02	NO	94.9
13	PFHpA	375-85-9	8.33	362.926 > 319.014	811176		51.556	5.23	NO	103.1
14	M4PFHpA	INT STD	8.33	366.926 > 321.979	159822		9.662		na	96.6
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	14038		7.524	2.02	NO	88.5
16	L-PFHxS	355-46-4	8.49	398.926 > 80.295	60653		37.517	1.37	NO	101.4
17	PFHxS	355-46-4		398.926 > 80.295	74691		45.041		na	
18	M3PFHxS	INT STD	8.49	401.926 > 80.317	11465		9.721		na	97.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	750654		49.340	9.09	NO	98.7
21	M2PFOA	INT STD	9.28	415.032 > 369.968	195261		10.341		na	103.4
22	PFOA	335-67-1		412.989 > 368.9	750654		49.340		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	155940		9.903		na	99.0
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	44364		45.875	1.02	NO	96.6
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	11075		10.129		na	101.3
26	PFHpS	375-92-8	9.37	448.926 > 80.257	48403		50.421	0.91	YES	106.1
27	PFNA	375-95-1	10.02	462.989 > 418.931	664299		52.028	4.37	NO	104.1
28	M9PFNA	INT STD	10.02	472.053 > 426.947	152874		9.734		na	97.3
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	19424		8.548	3.84	YES	85.5
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	60484		37.349	1.76	YES	102.3
31	PFOS	1763-23-1		498.989 > 80.294	79909		45.897		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	17033		10.515		na	105.1
33	M8PFOS	INT STD	10.07	507.053 > 80.294	15505		9.761		na	97.6
34	PFDA	335-76-2	10.64	513.053 > 468.906	599366		50.558	6.07	NO	101.1
35	M2PFDA	INT STD	10.64	515.053 > 469.934	154305		10.379		na	103.8
36	M6PFDA	INT STD	10.64	519.053 > 473.931	133646		9.593		na	95.9
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	30457		46.775		na	97.4
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	6123		9.538		na	95.4
39	PFNS	68259-12-1	10.67	548.989 > 80.249	63928		50.996	1.31	NO	106.2

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:23 Eastern Daylight Time

ID: IA2-537STD50.0
Name: I11881
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	13798		9.187		na	91.9
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	73922		53.260		na	106.5
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	562137		49.719	7.48	NO	99.4
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	113796		9.758		na	97.6
44	PFDS	335-77-3	11.19	598.926 > 80.314	49144		49.043	1.13	NO	101.6
45	FOSA	754-91-6	11.13	497.989 > 78.245	236447		51.148		na	102.3
46	M8FOSA	INT STD	11.13	506.053 > 78.286	47261		9.508		na	95.1
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	12271		8.469		na	84.7
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	67598		53.881	2.63	YES	107.8
49	PFDoA	307-55-1	11.64	612.989 > 568.967	596211		51.010	12.90	NO	102.0
50	MPFDOA	INT STD	11.65	614.989 > 569.92	125342		9.566		na	95.7
51	PFTrDA	72629-94-8	12.06	663.053 > 618.969	511295		52.020	12.01	NO	104.0
52	PFTA	376-06-7	12.37	713.053 > 668.976	417635		53.993	9.37	NO	108.0
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	92122		9.492		na	94.9
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	1019769		49.425	2384.90	NO	104.5
57	PFHxDA		12.68	813.053 > 769.005	319185		55.980		na	112.0
58	PFODA		12.90	912.989 > 869.032	170087		49.707		na	99.4
59	M2PFHxDA		12.68	815.372 > 770.158	9602		9.511		na	95.1

all concentration units in (ng/mL)

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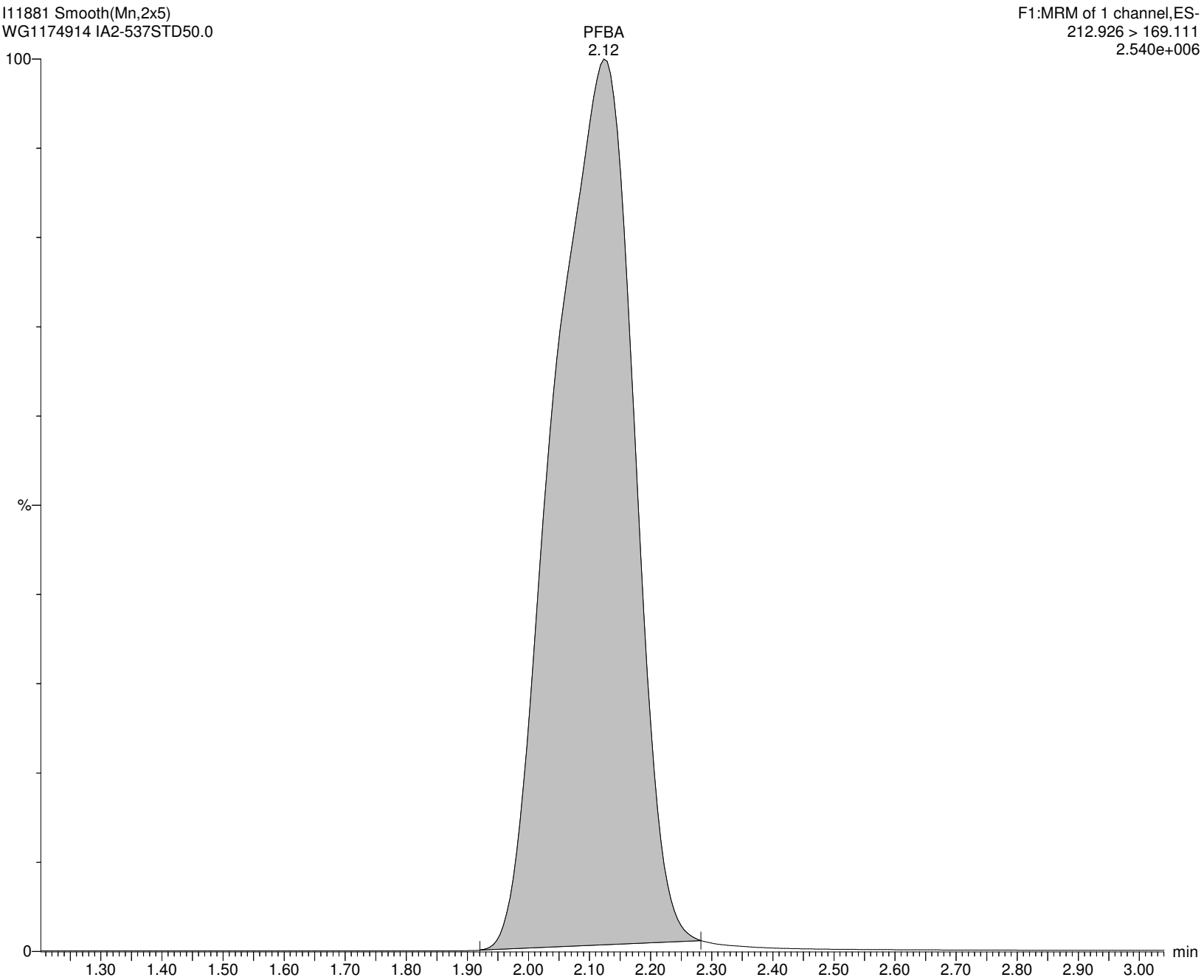

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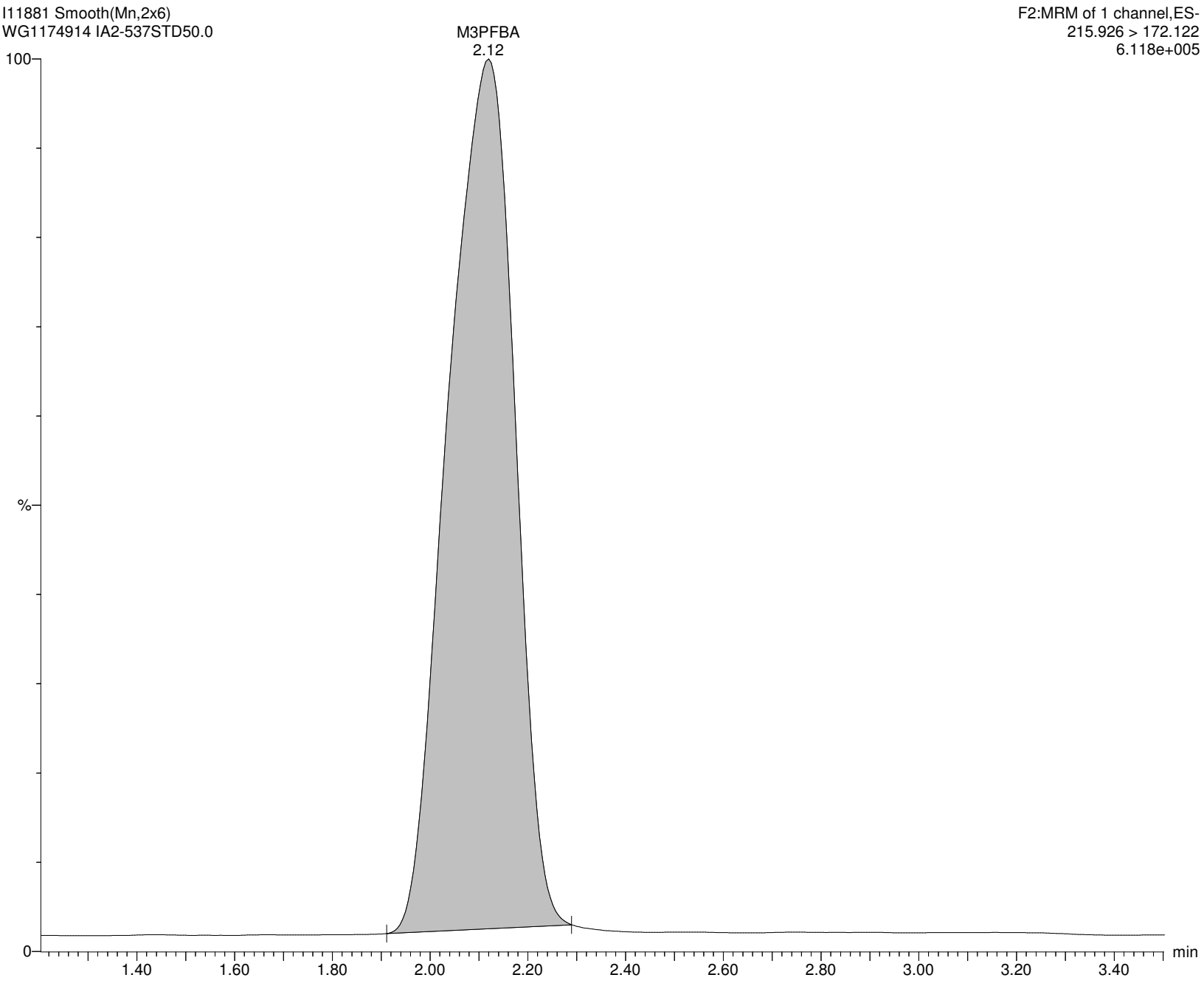

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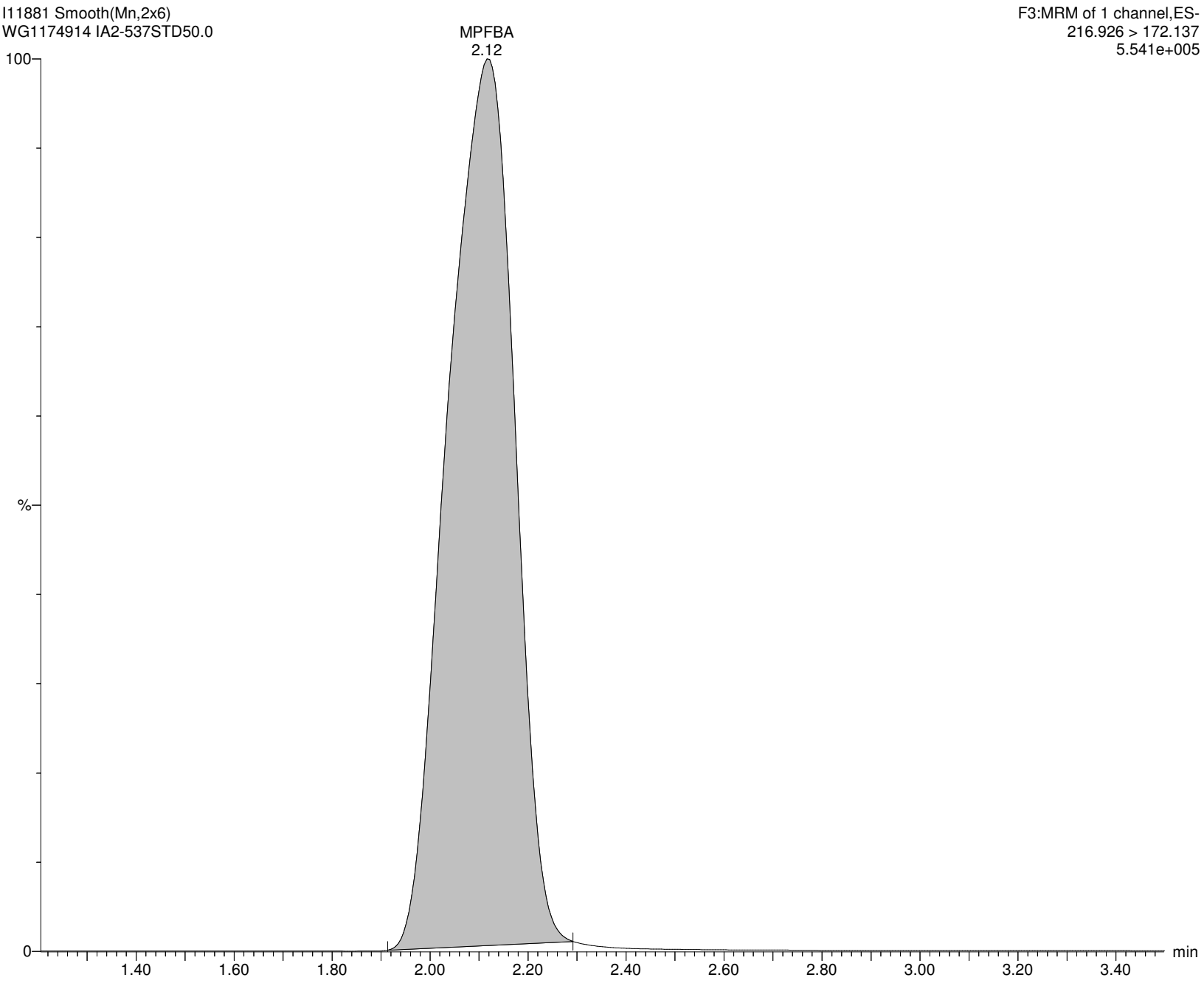

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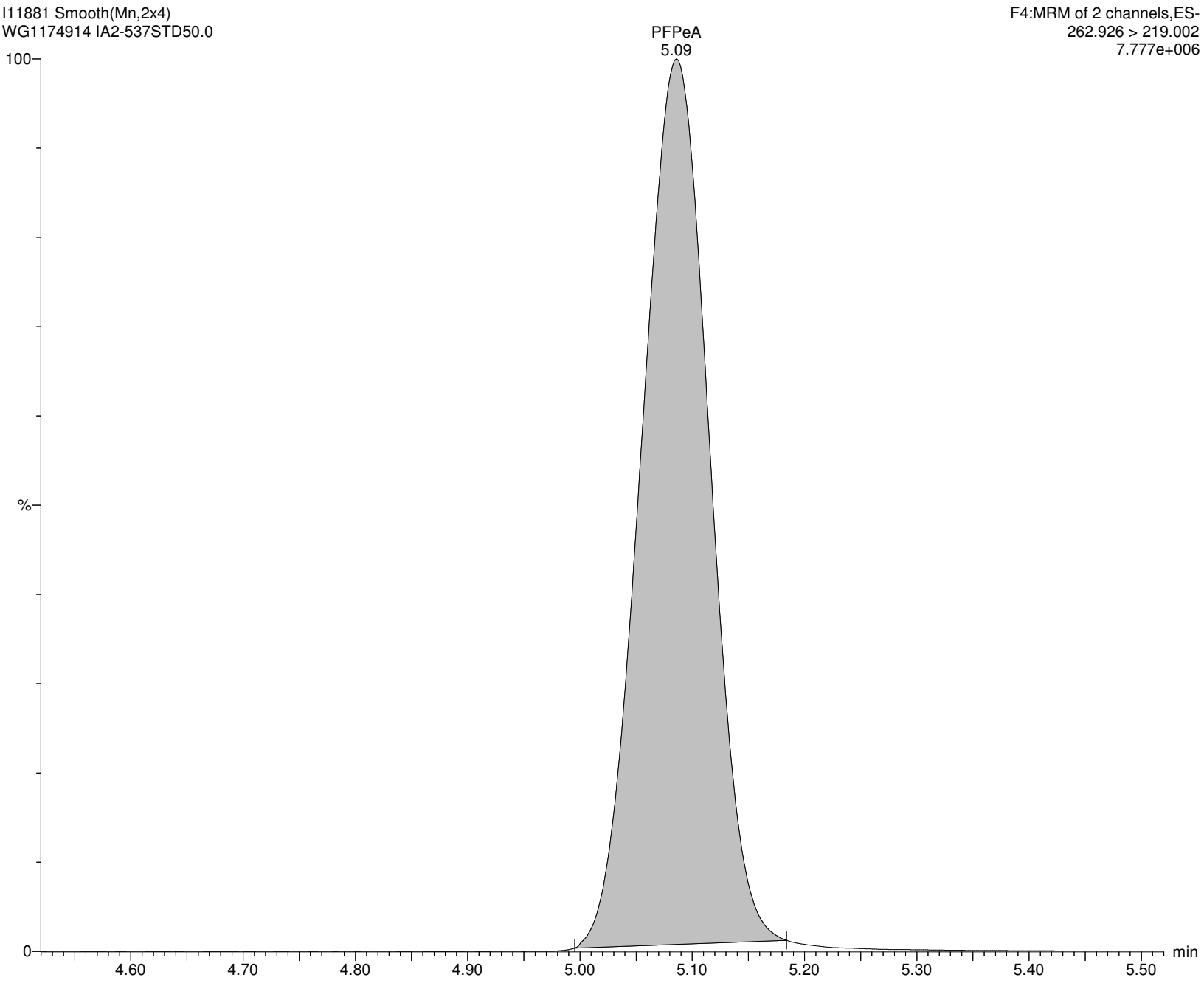

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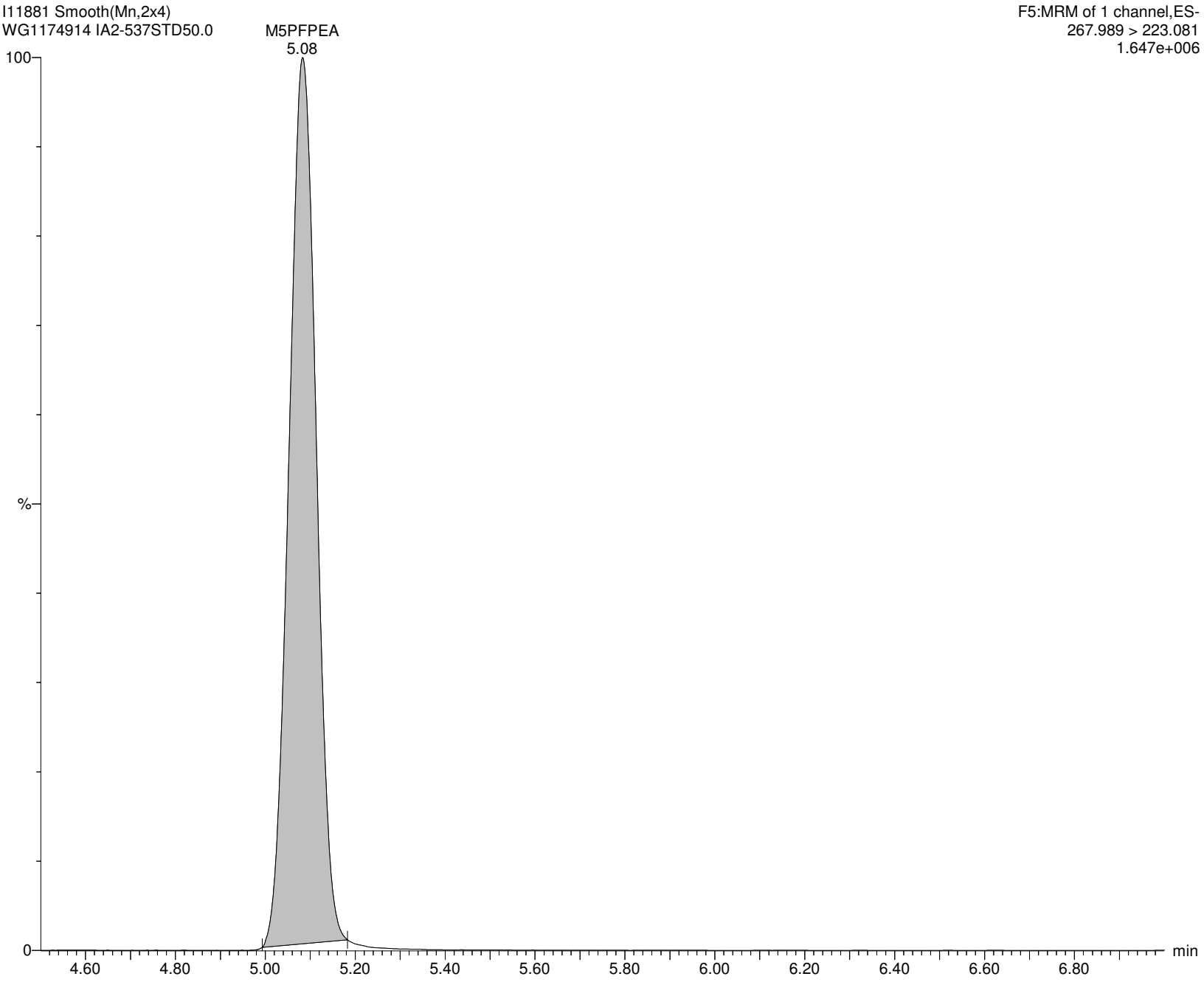
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M5PFPEA



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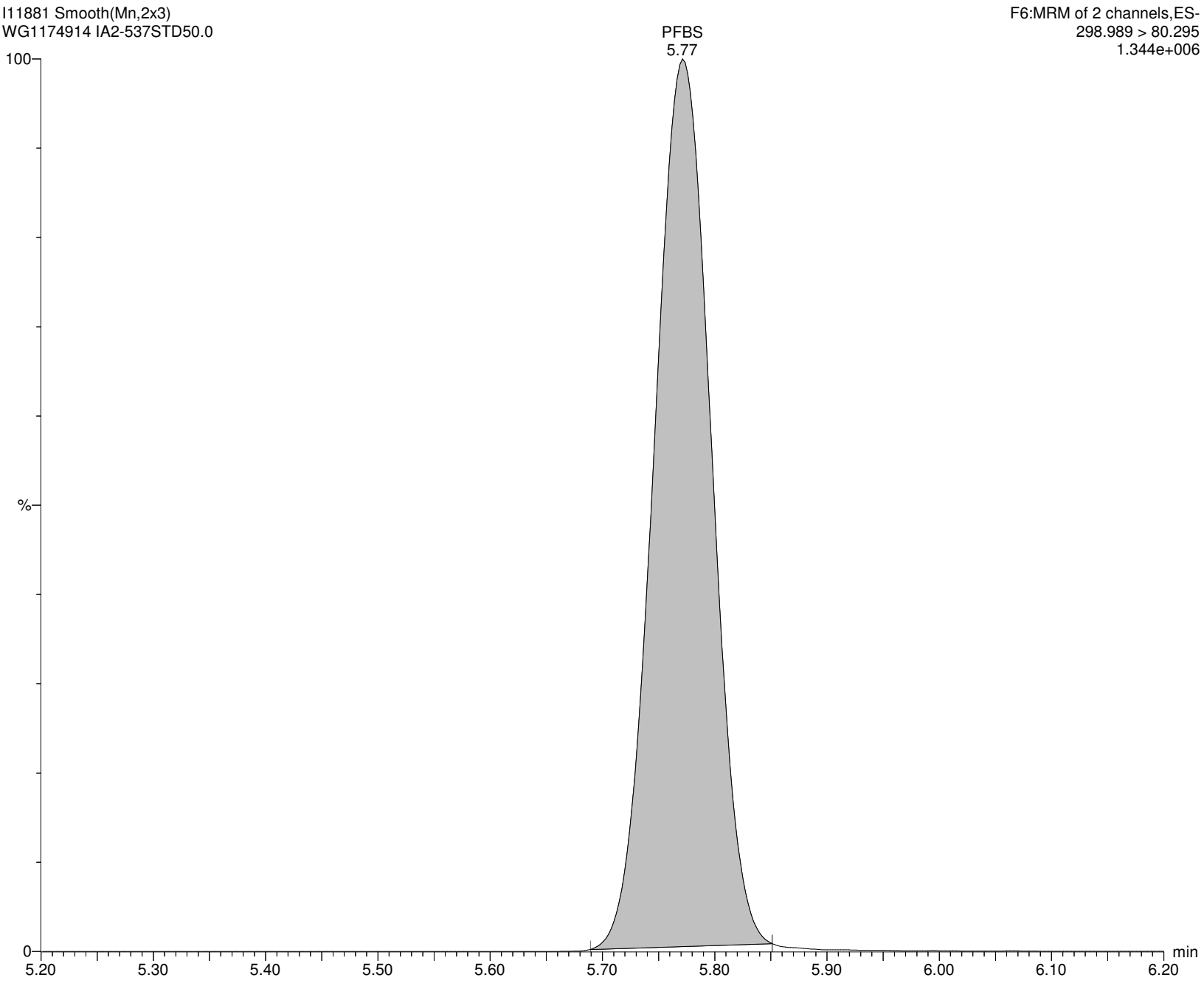

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:23 Eastern Daylight Time

Name: I11881
ID: IA2-537STD50.0
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
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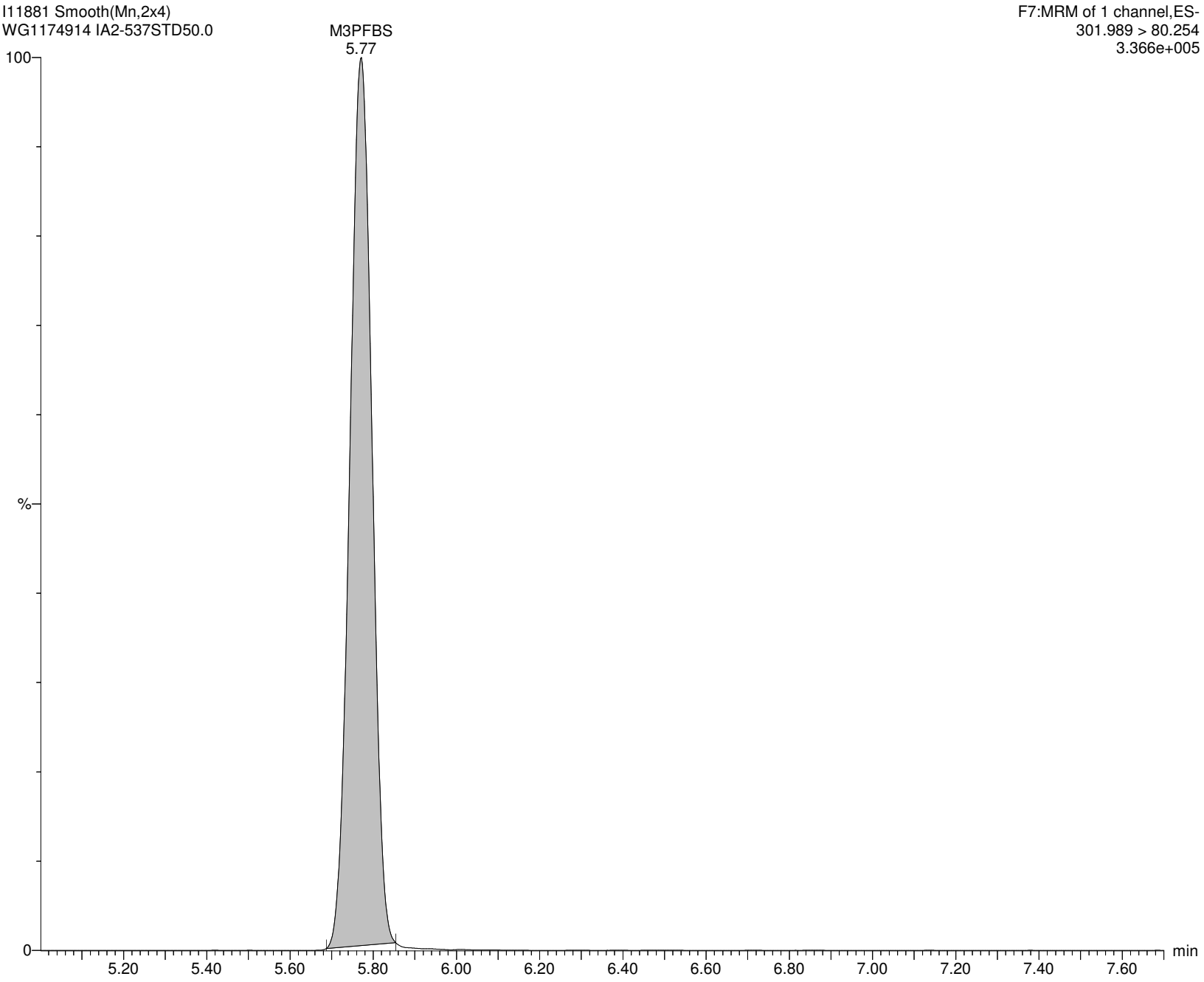

all concentration units in (ng/mL)

Alpha Analytical Inc.
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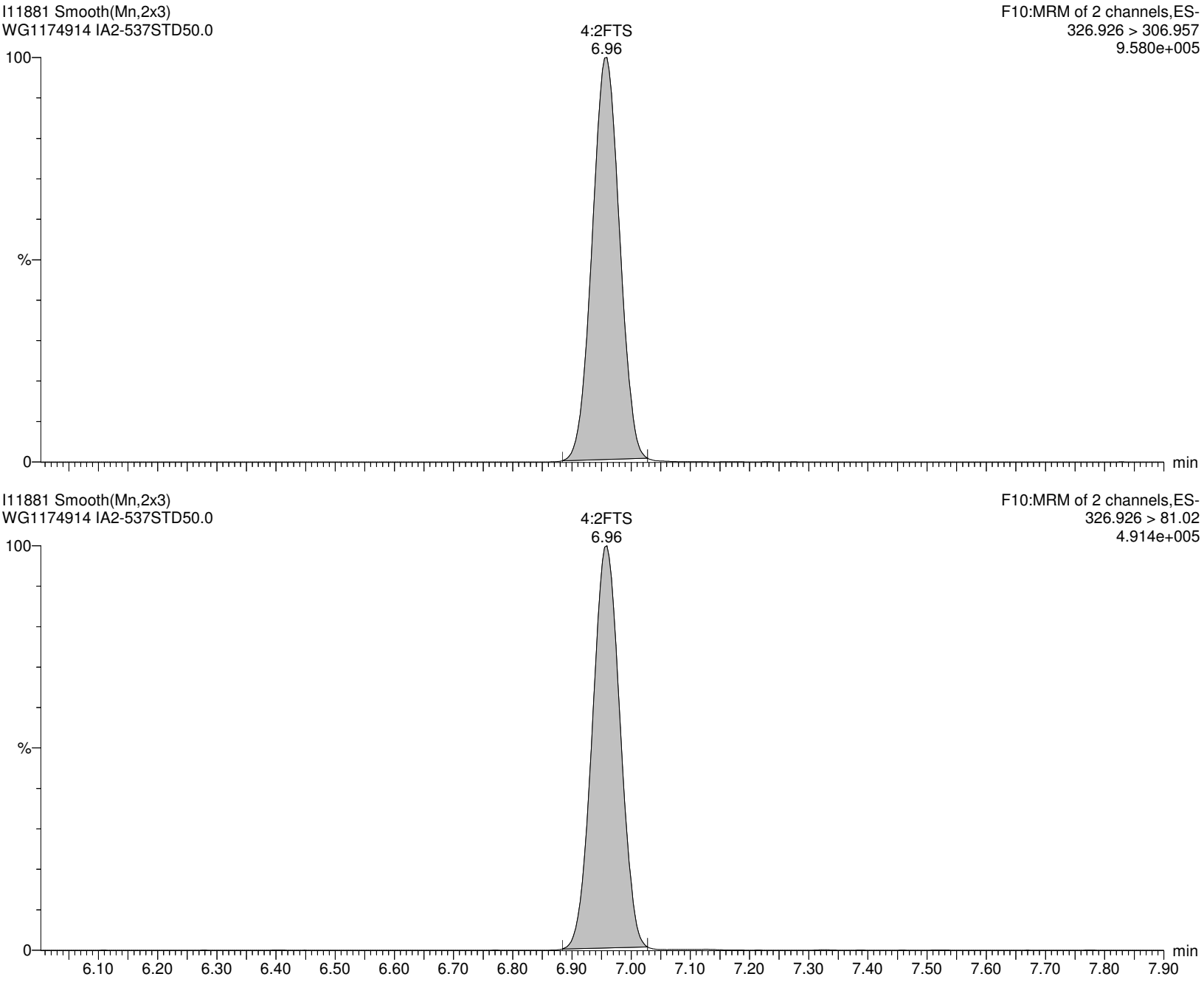

all concentration units in (ng/mL)

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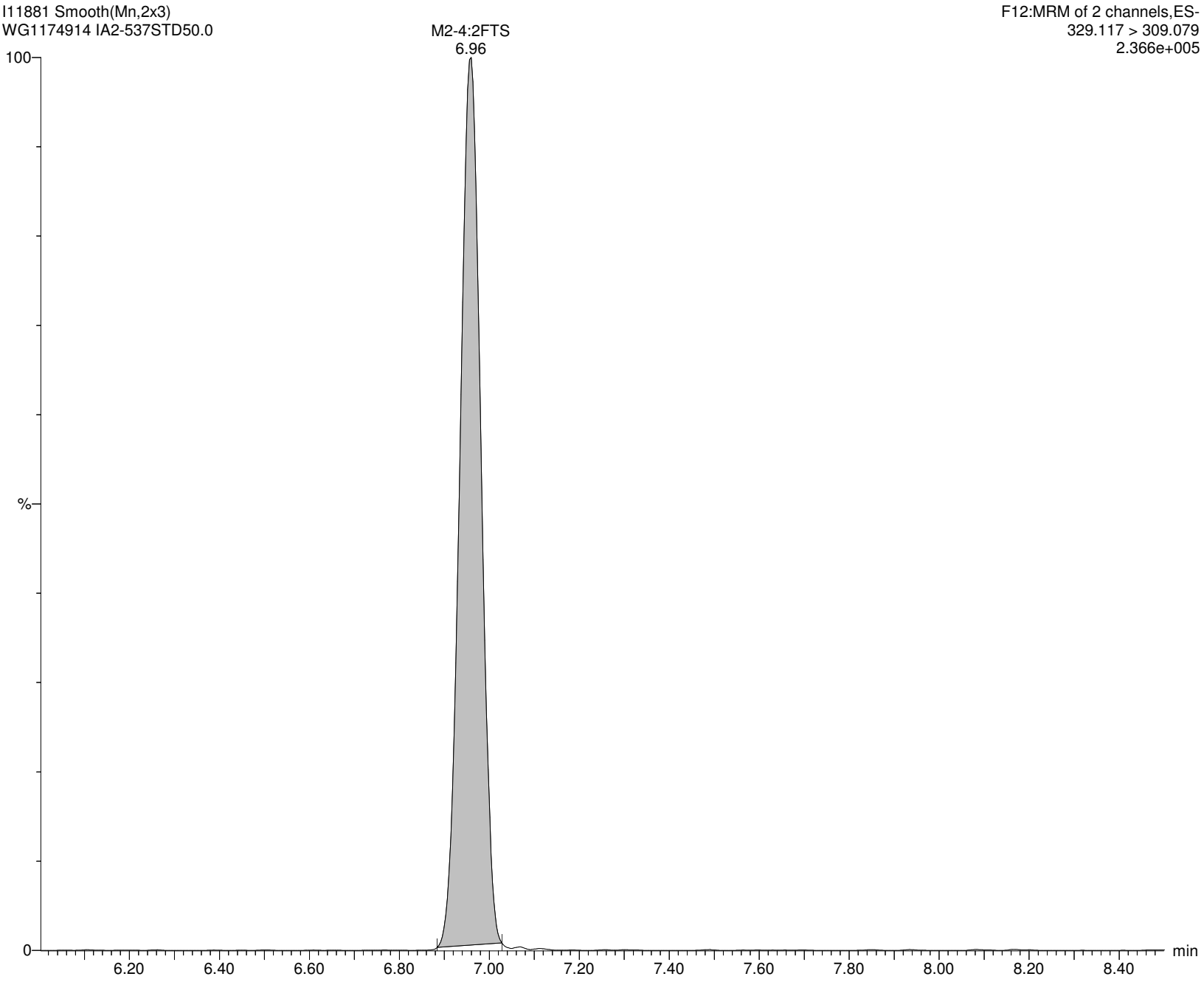

all concentration units in (ng/mL)

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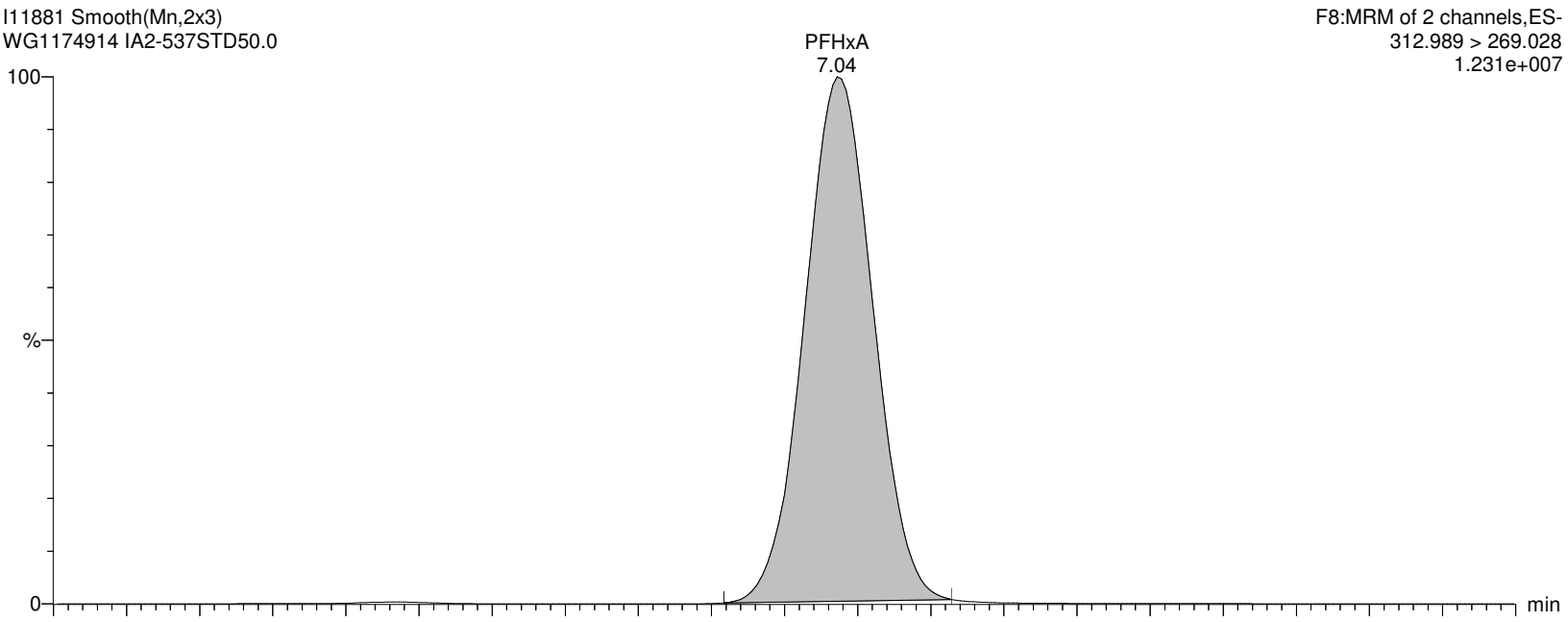

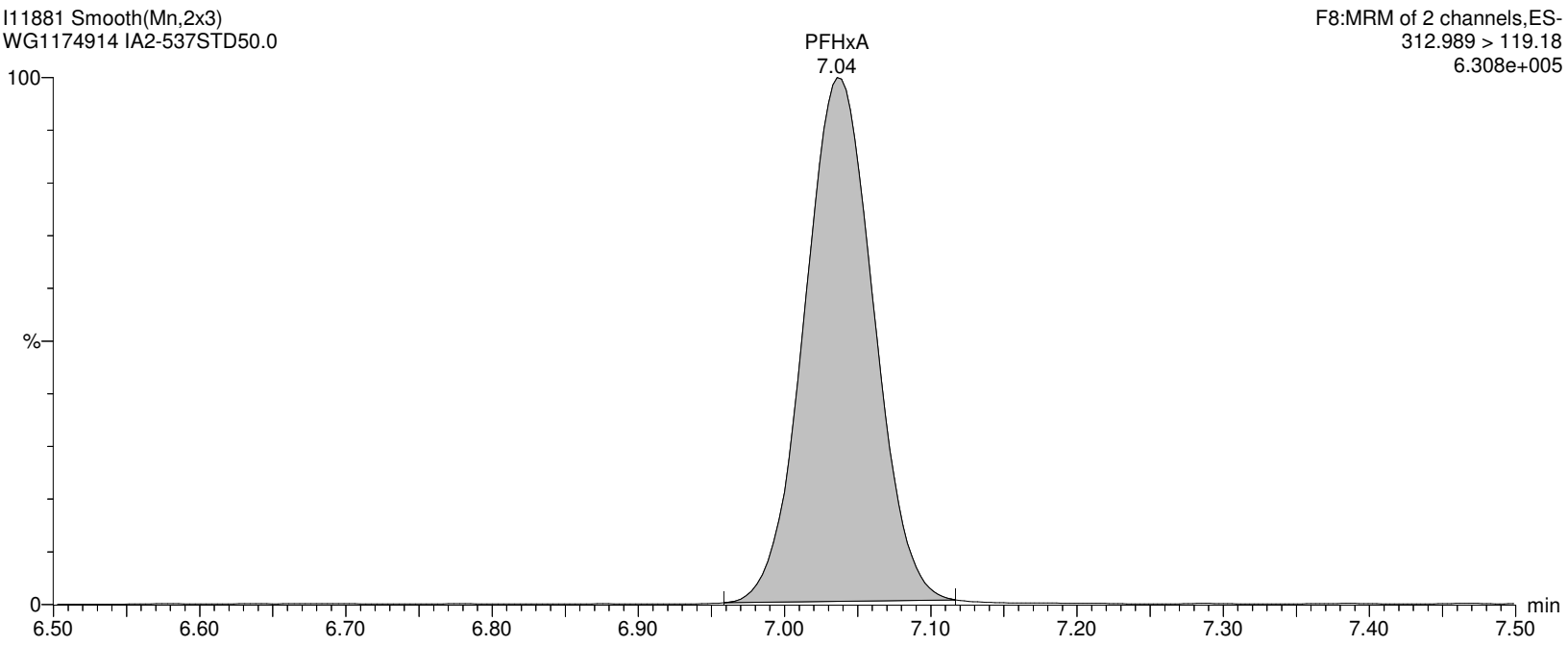

all concentration units in (ng/mL)

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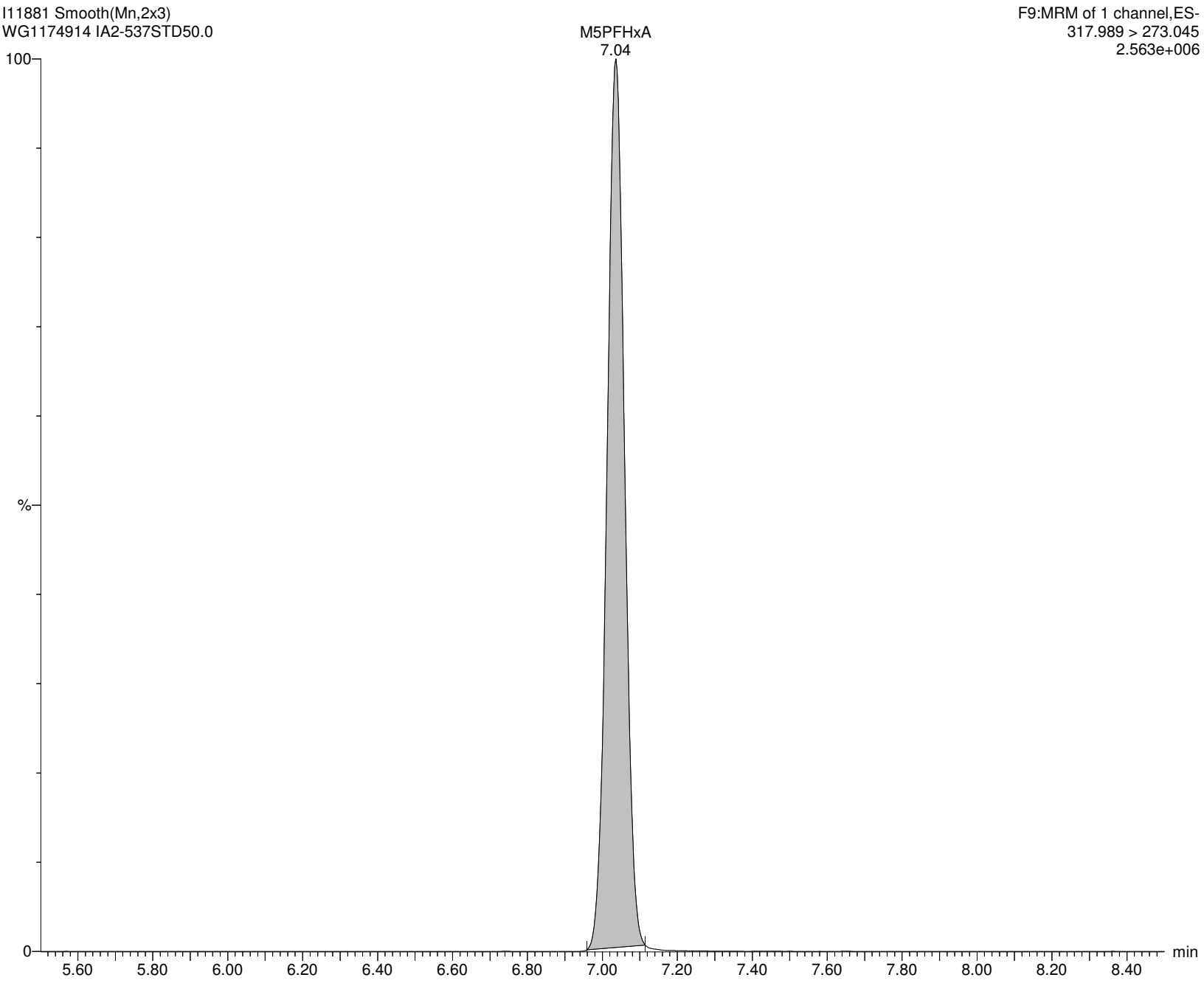

all concentration units in (ng/mL)

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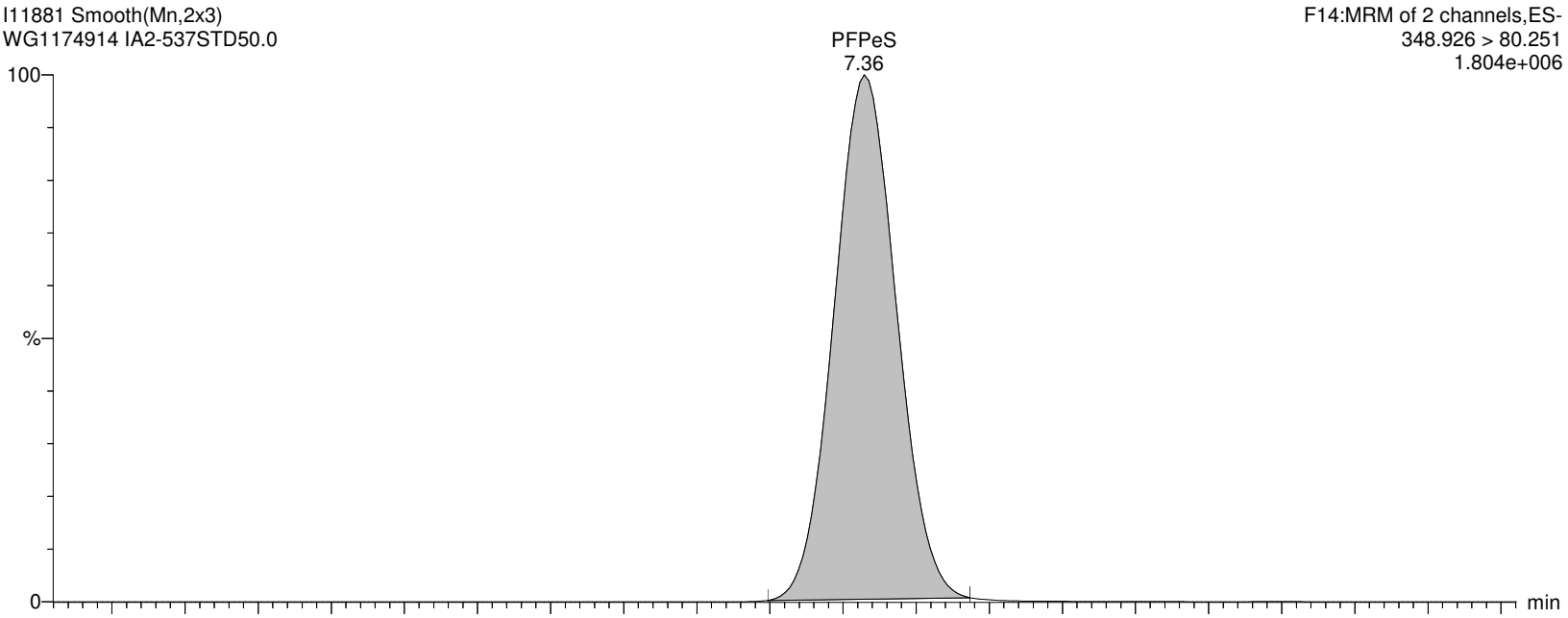

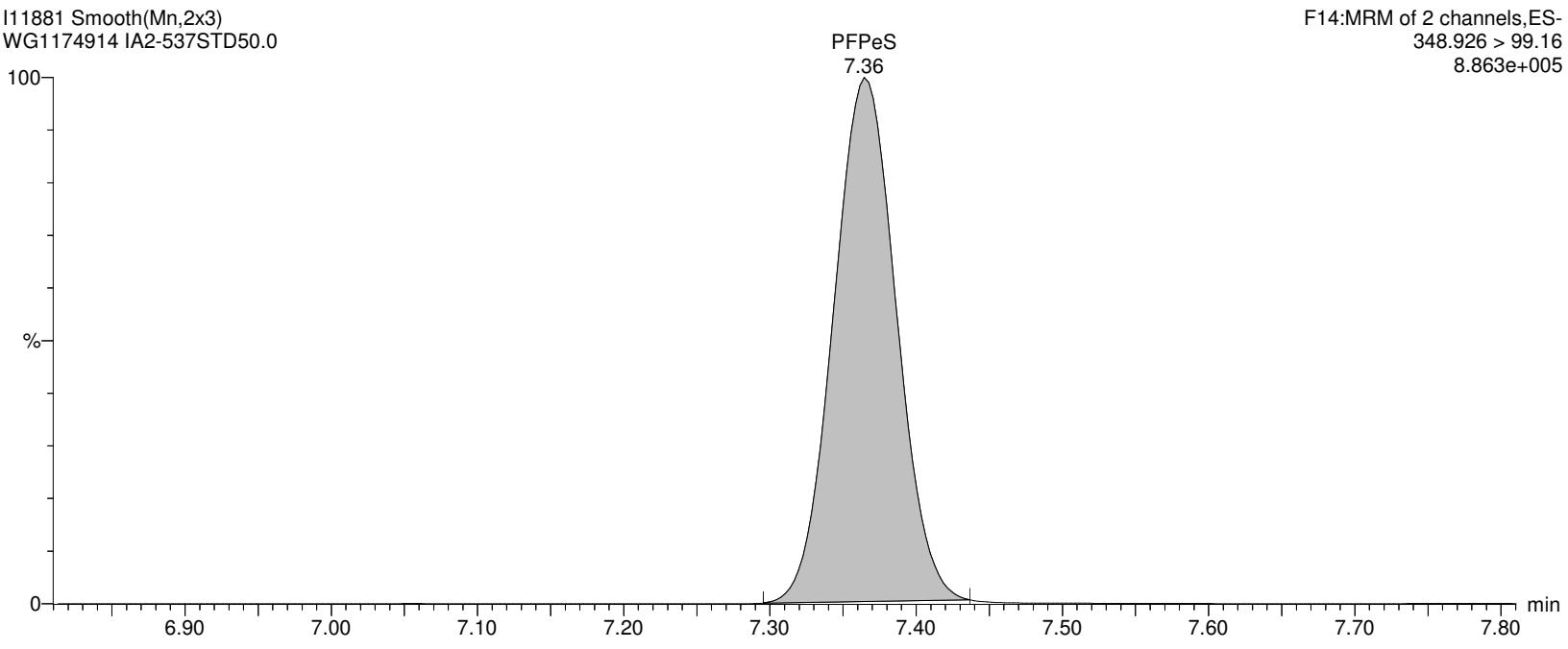

all concentration units in (ng/mL)

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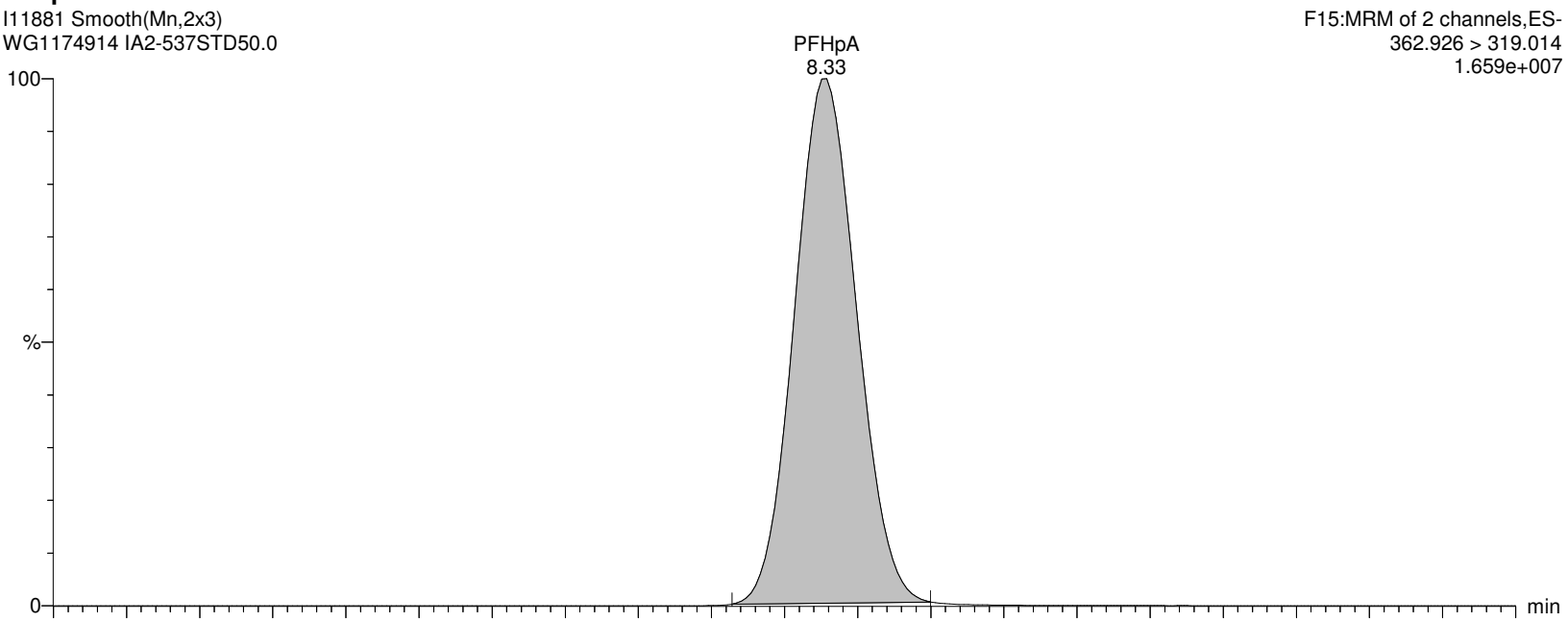
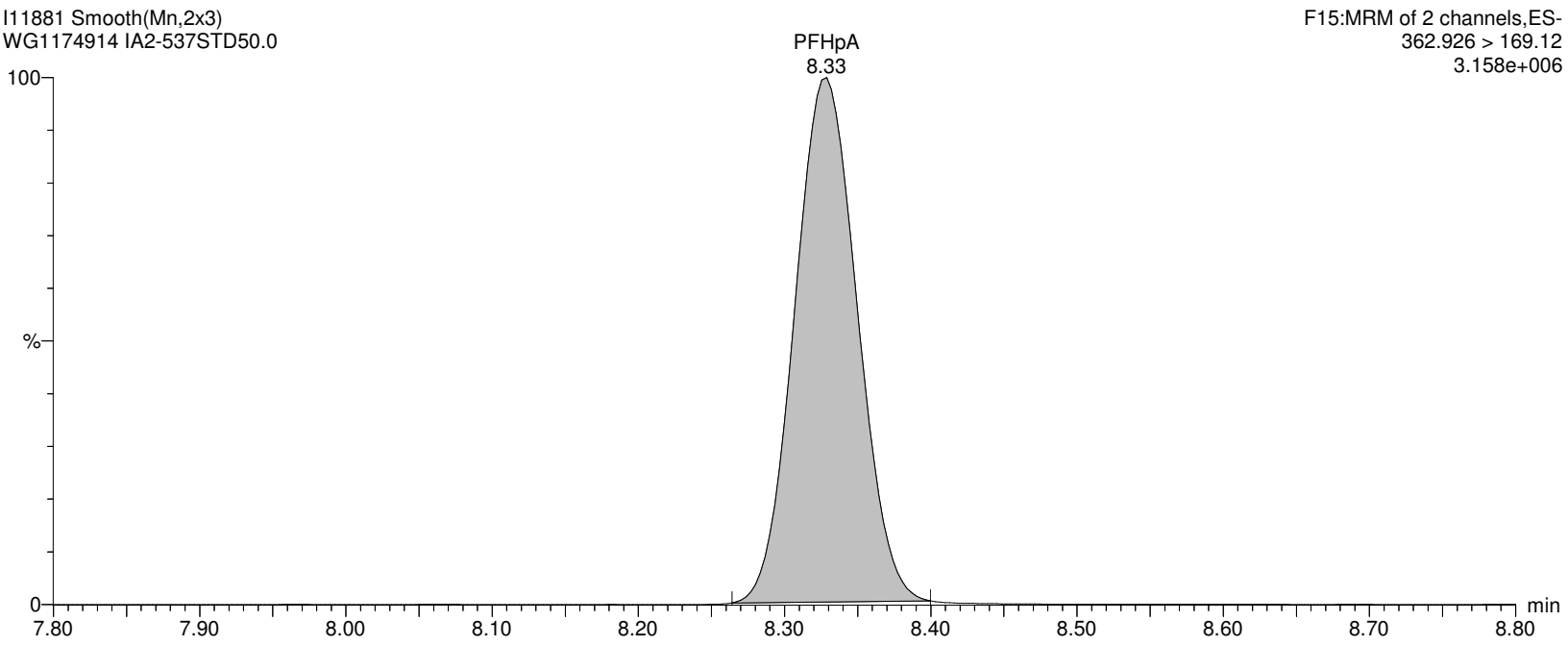
PFHpA





all concentration units in (ng/mL)

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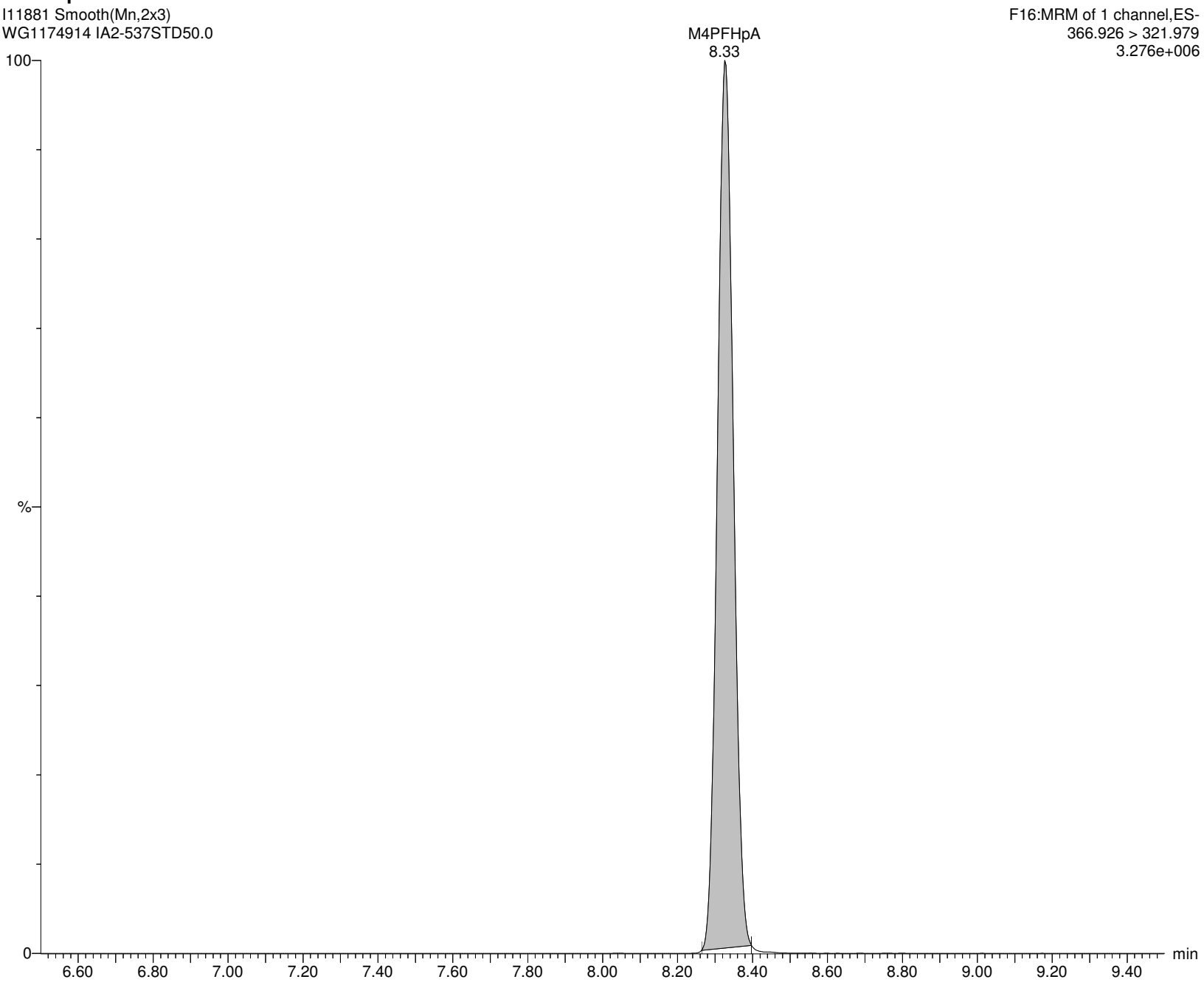

all concentration units in (ng/mL)

Alpha Analytical Inc.
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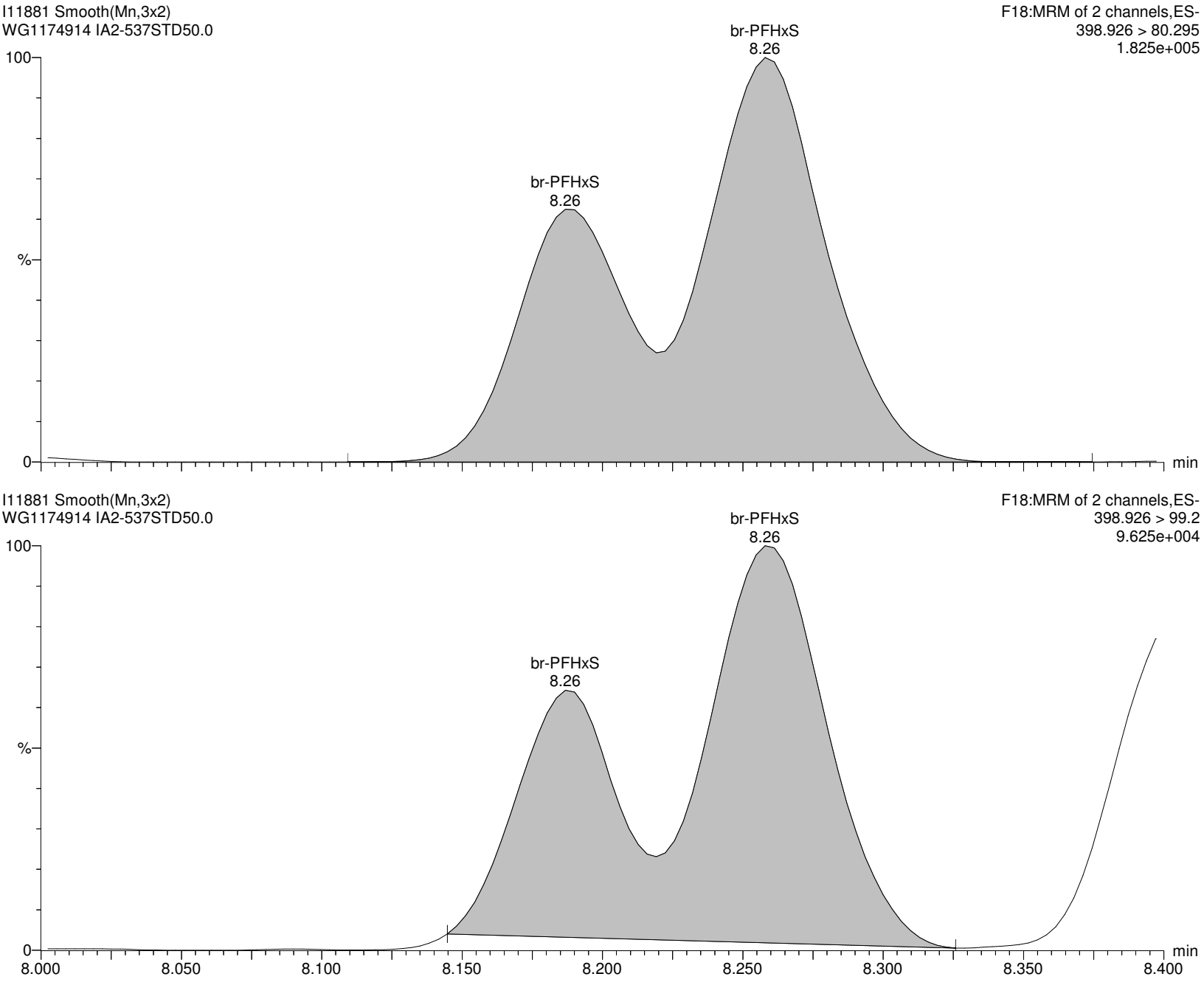

all concentration units in (ng/mL)

Alpha Analytical Inc.
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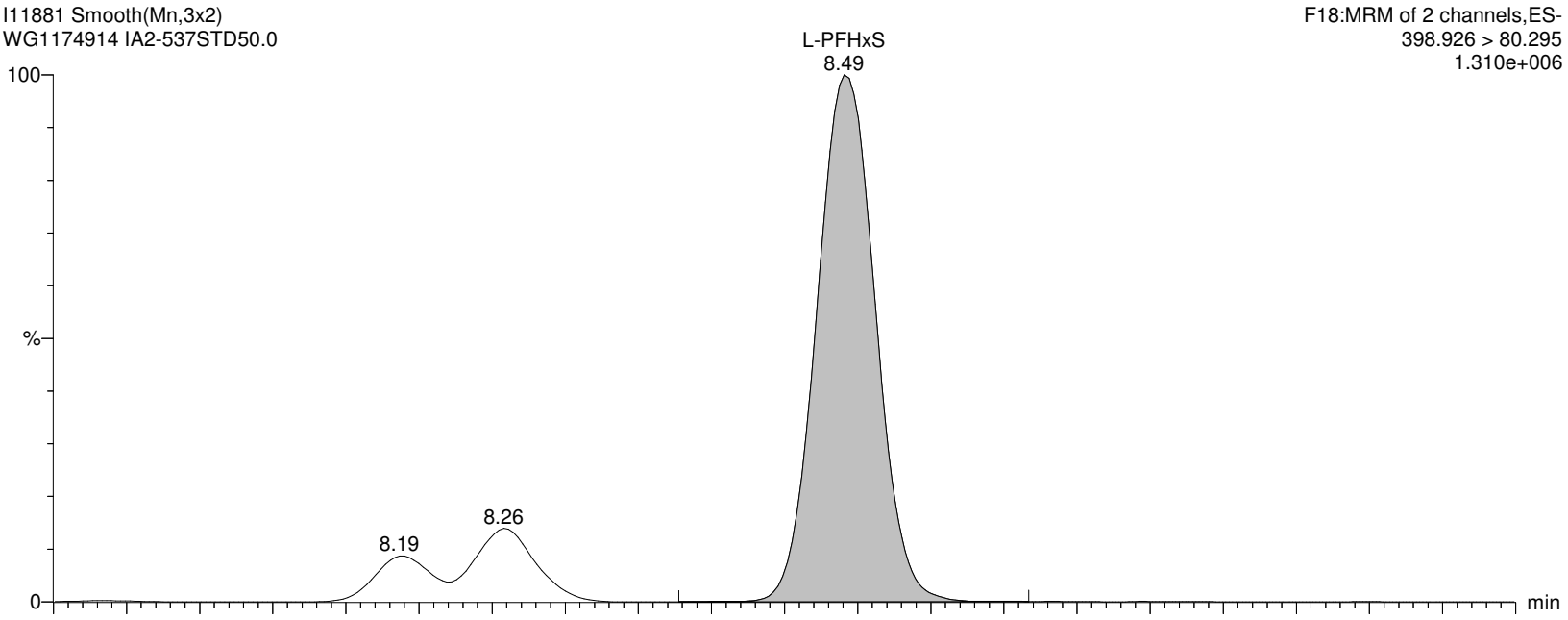

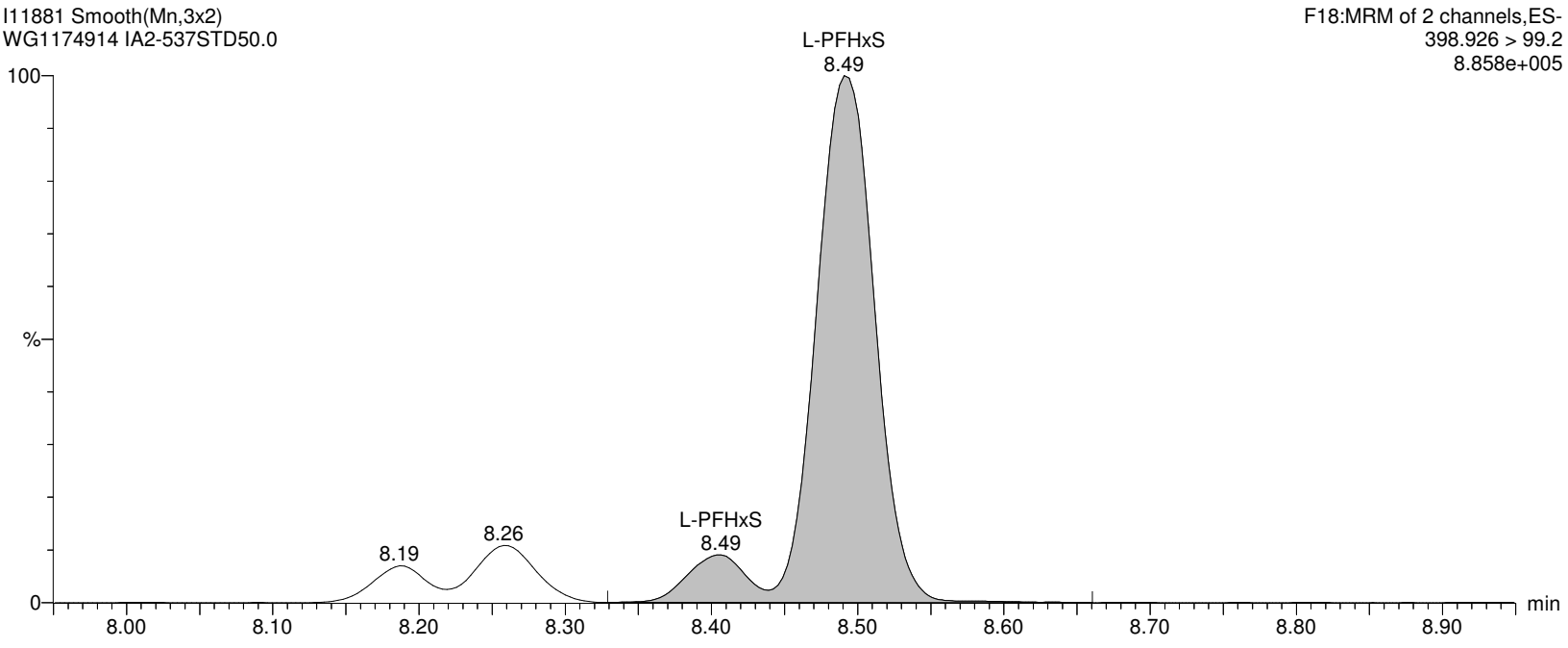

all concentration units in (ng/mL)

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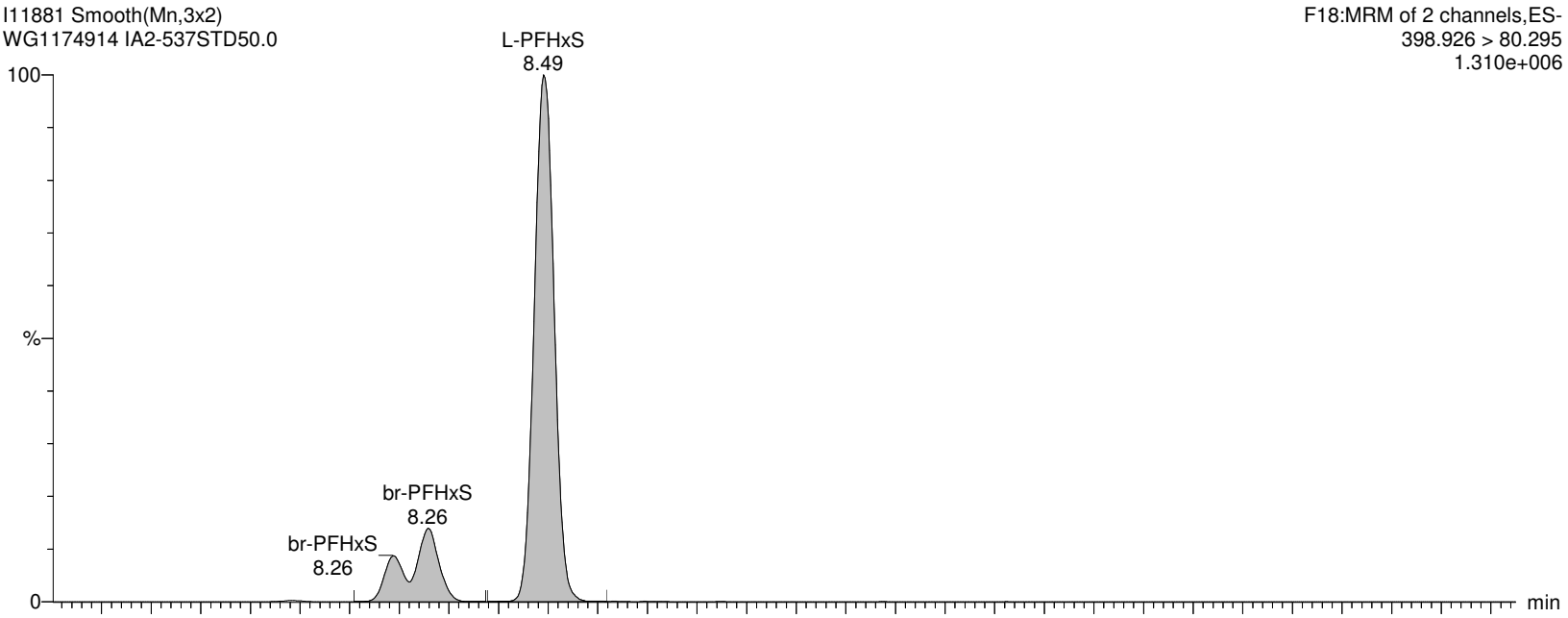

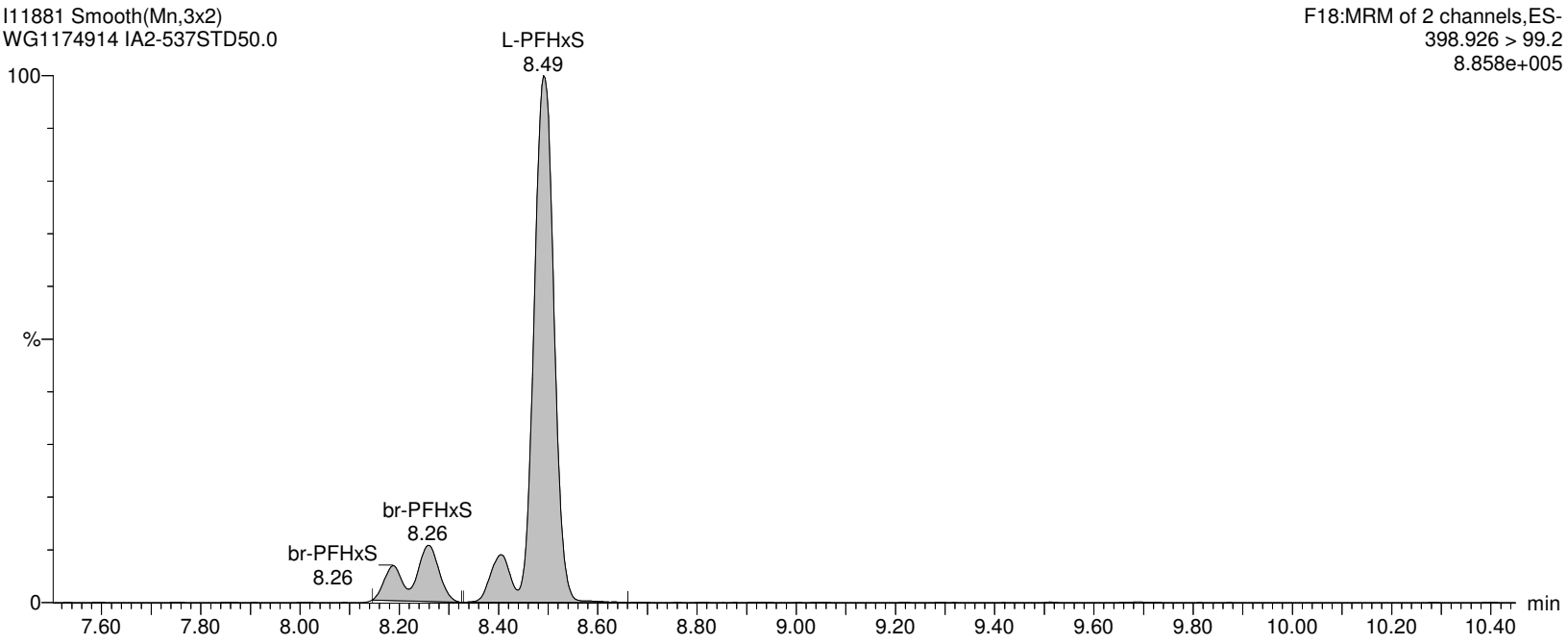

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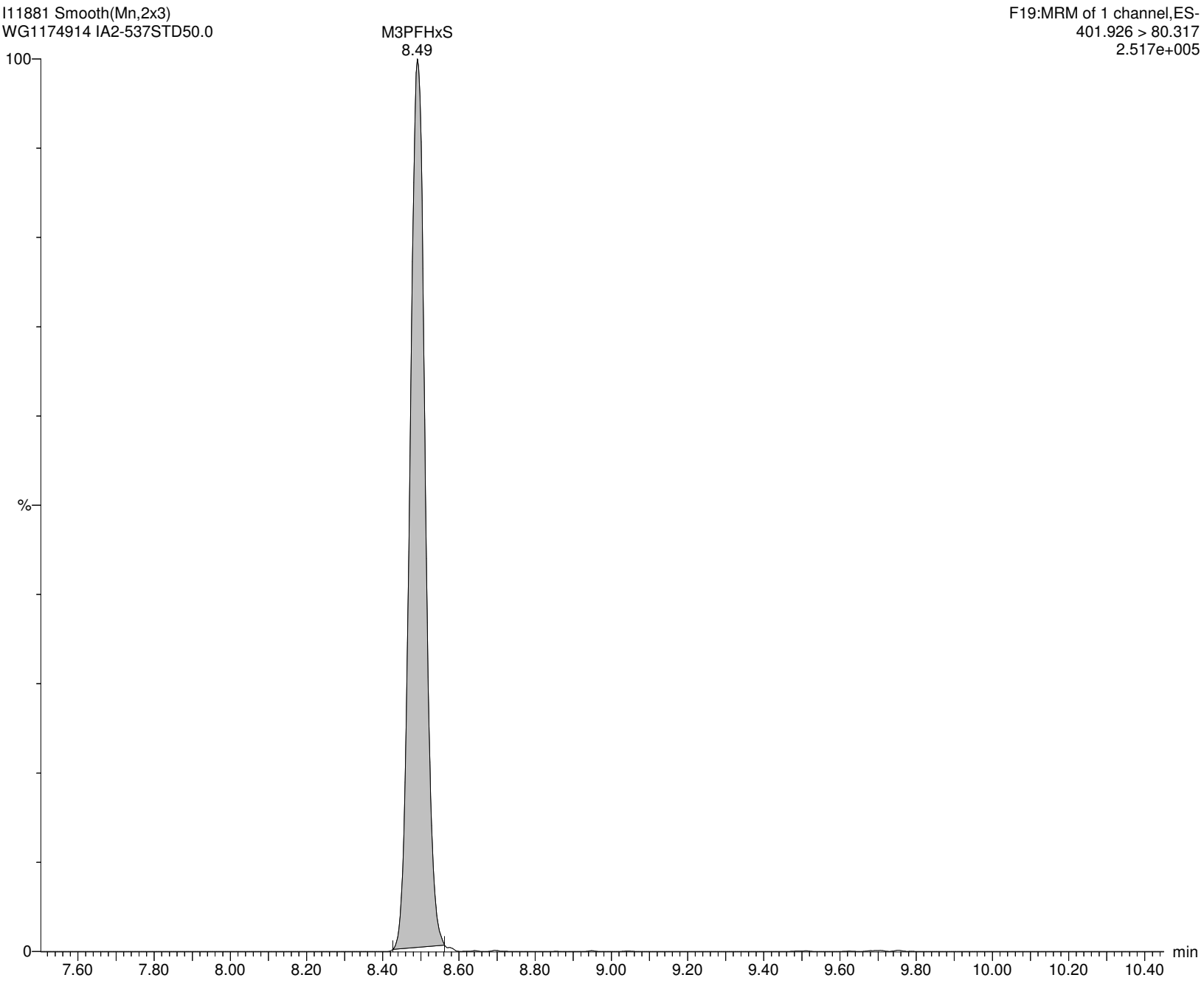

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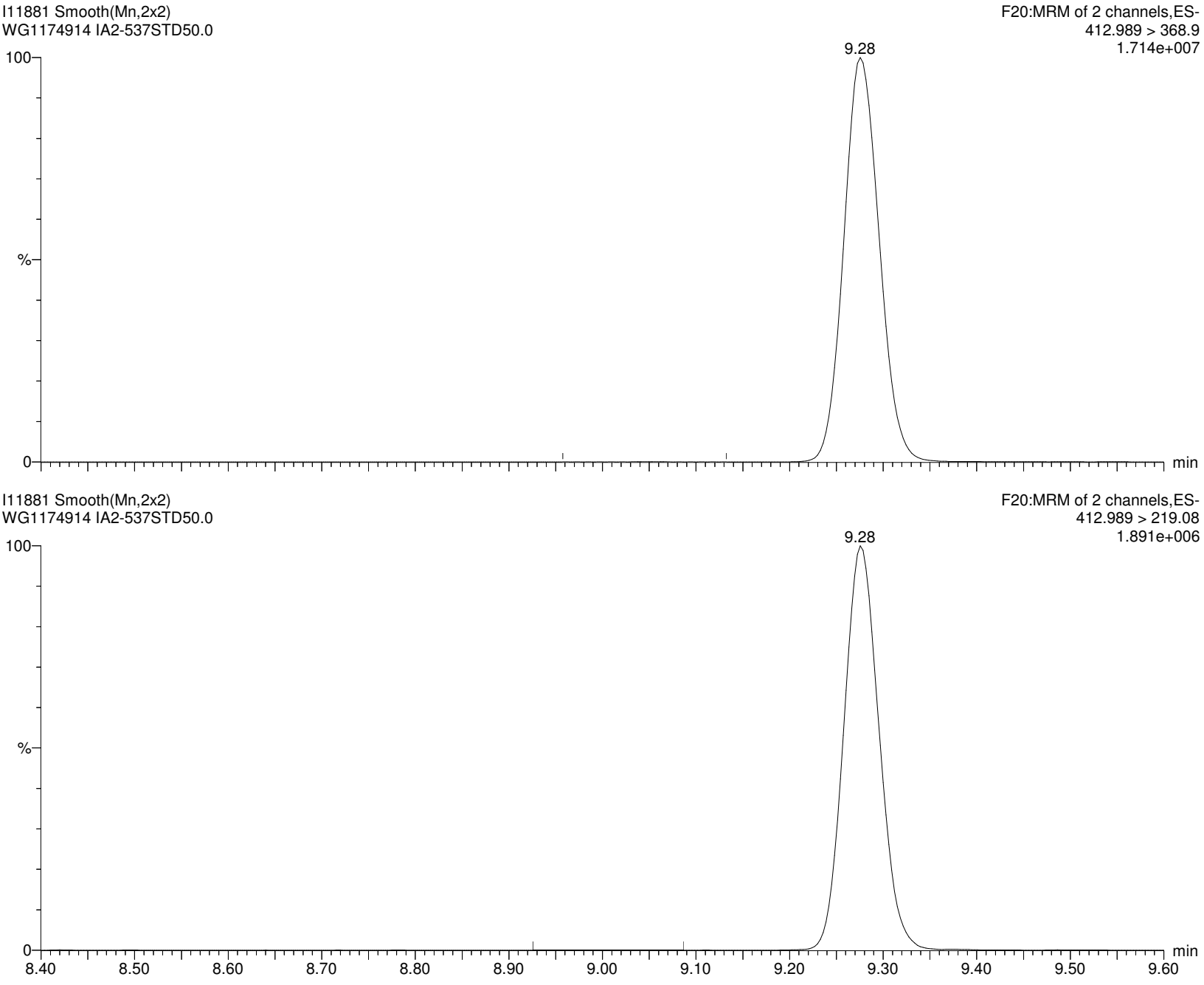

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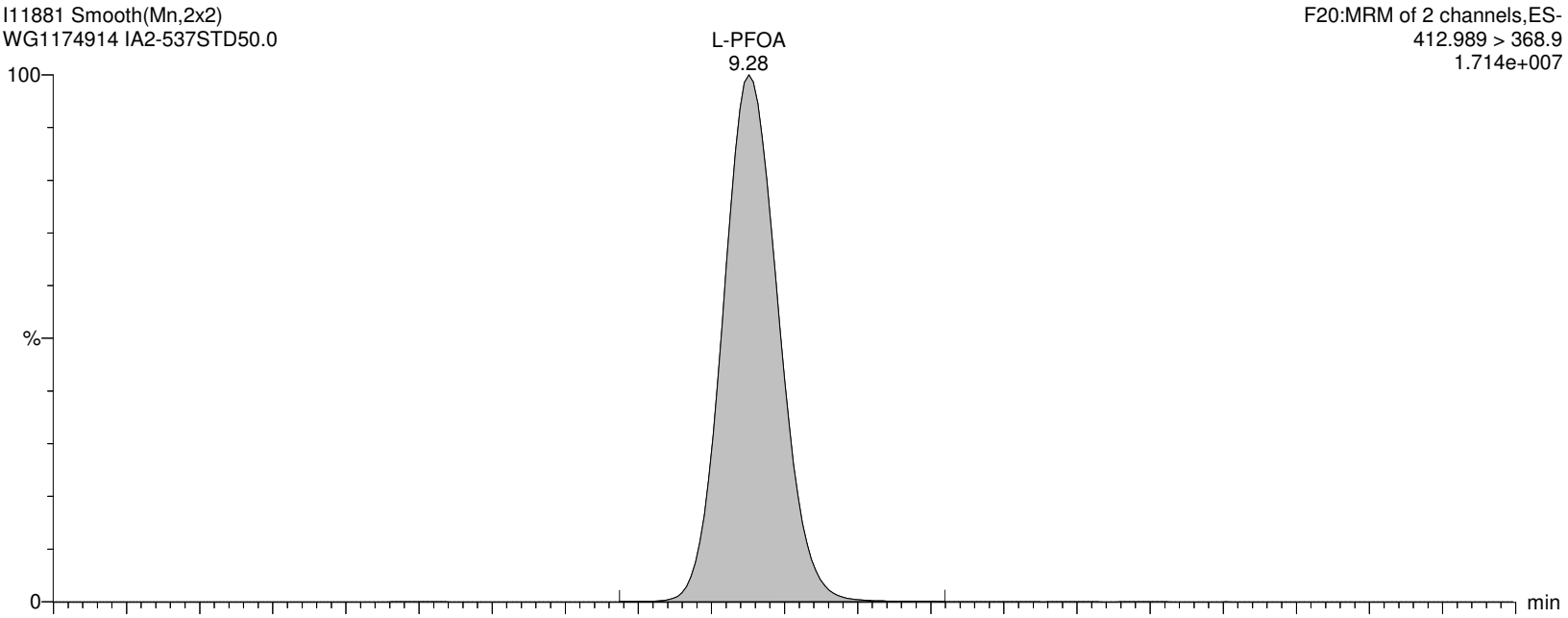

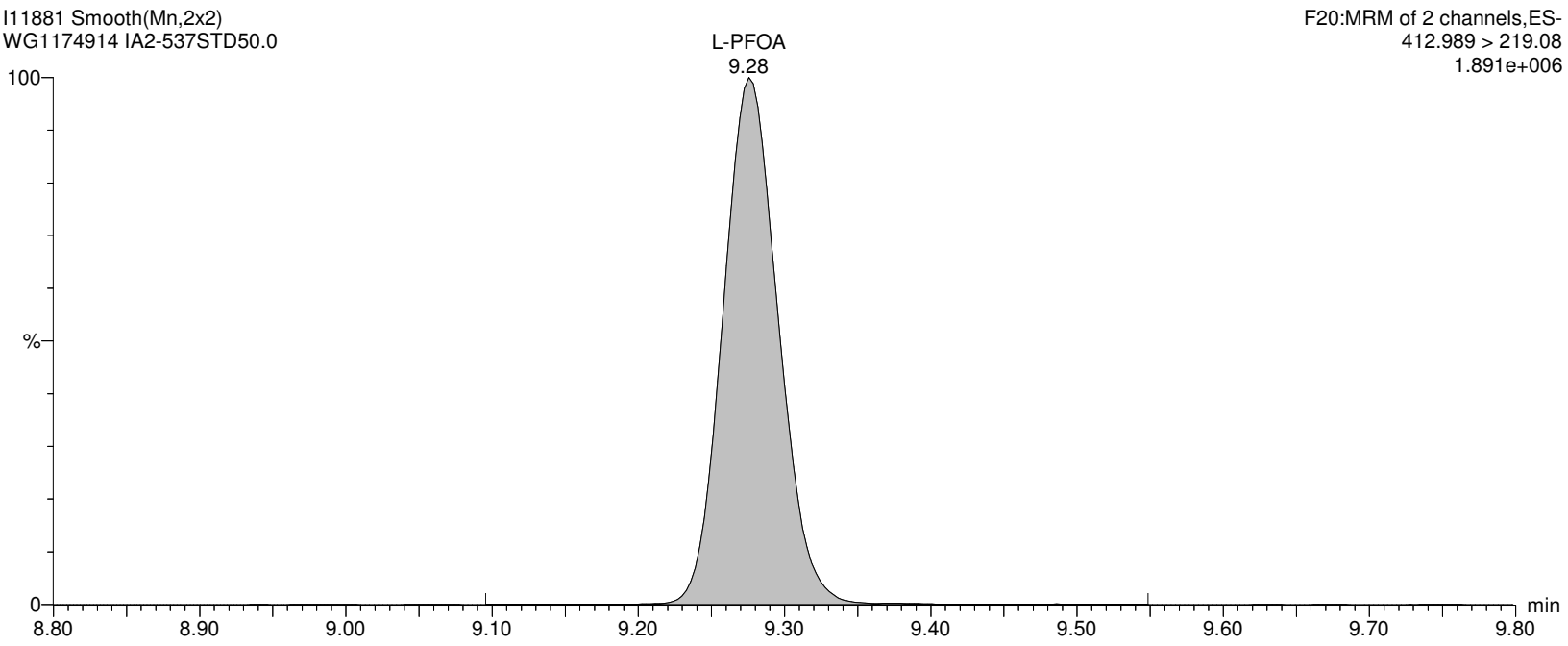

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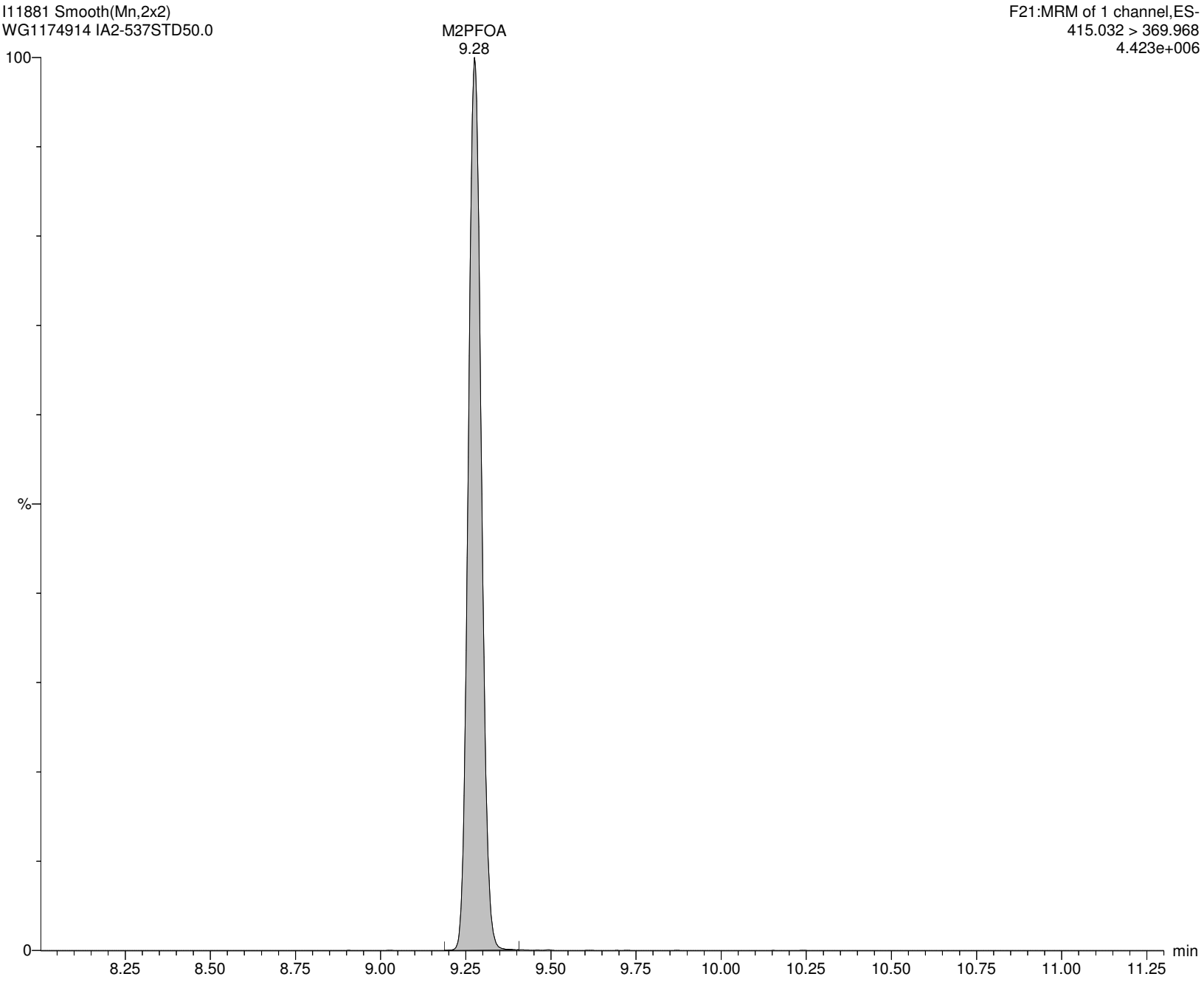

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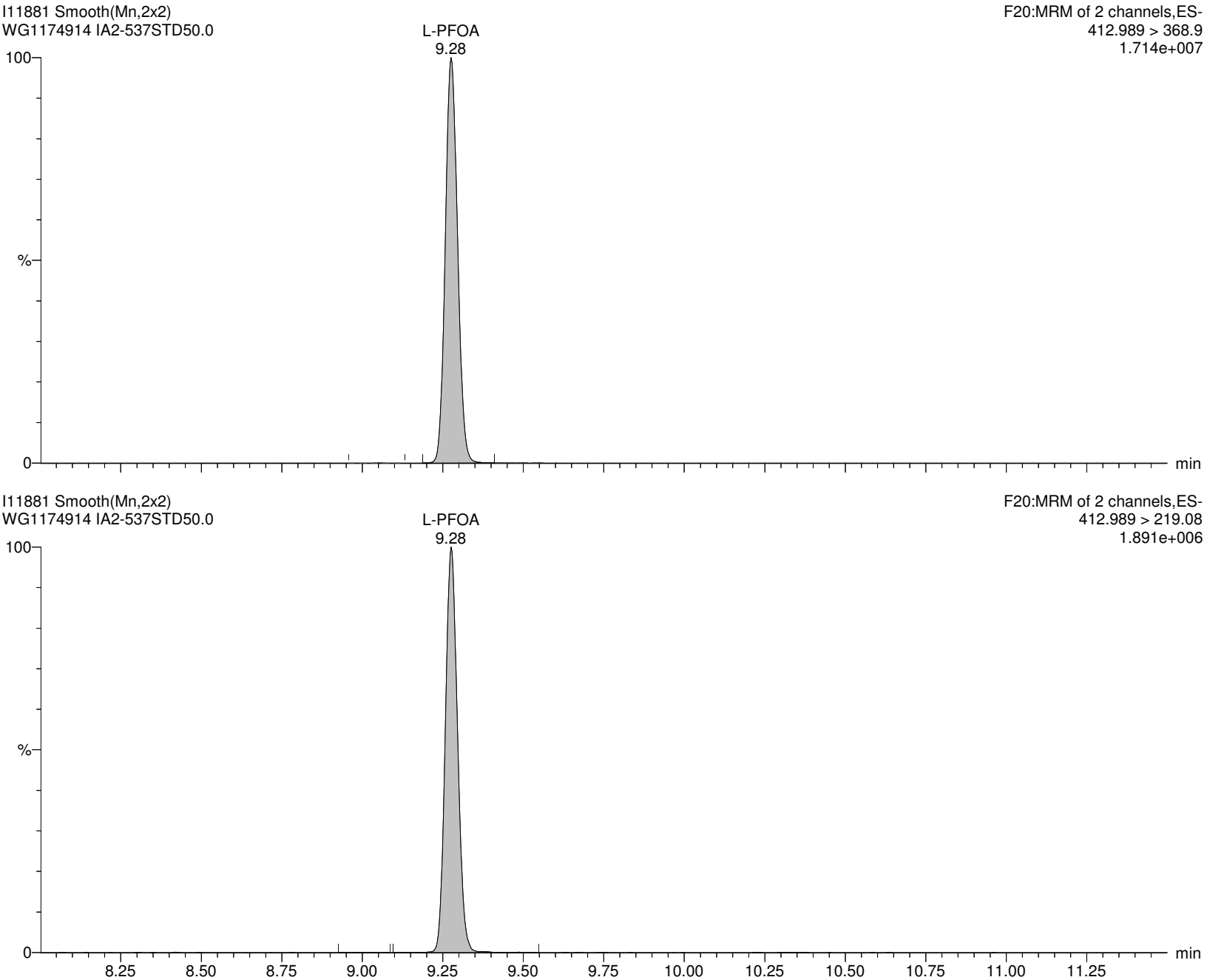

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ID: IA2-537STD50.0
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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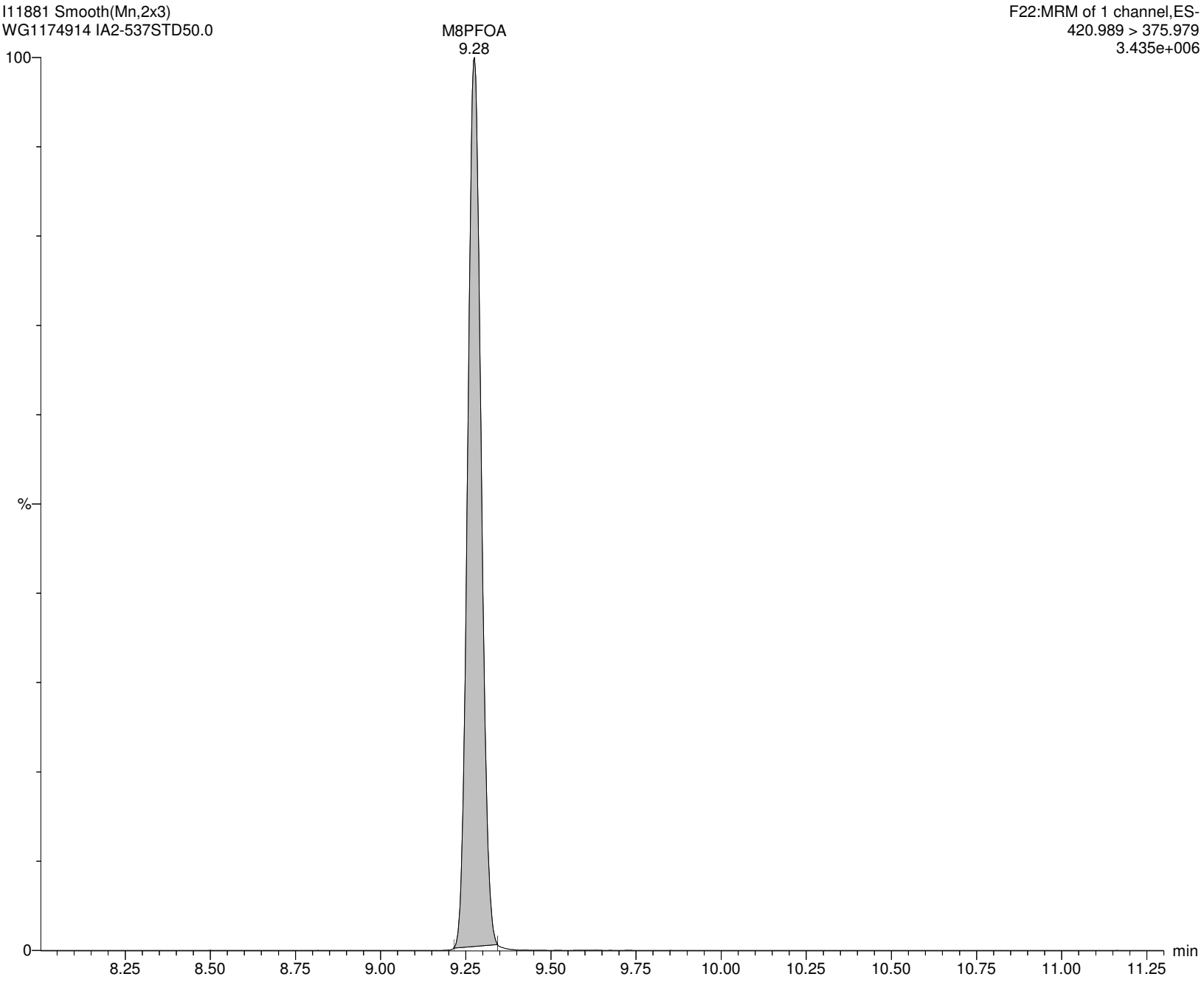

all concentration units in (ng/mL)

Alpha Analytical Inc.
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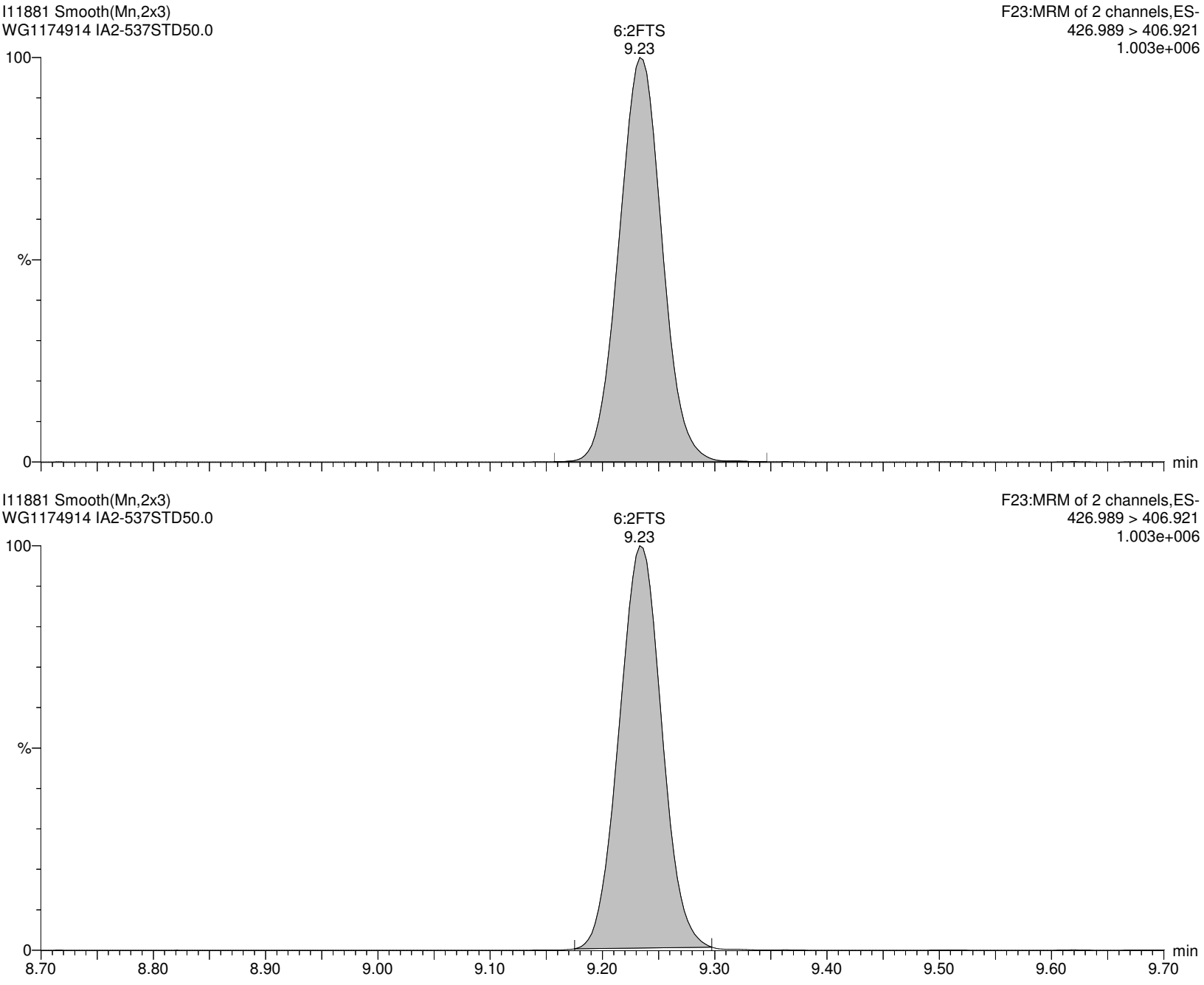

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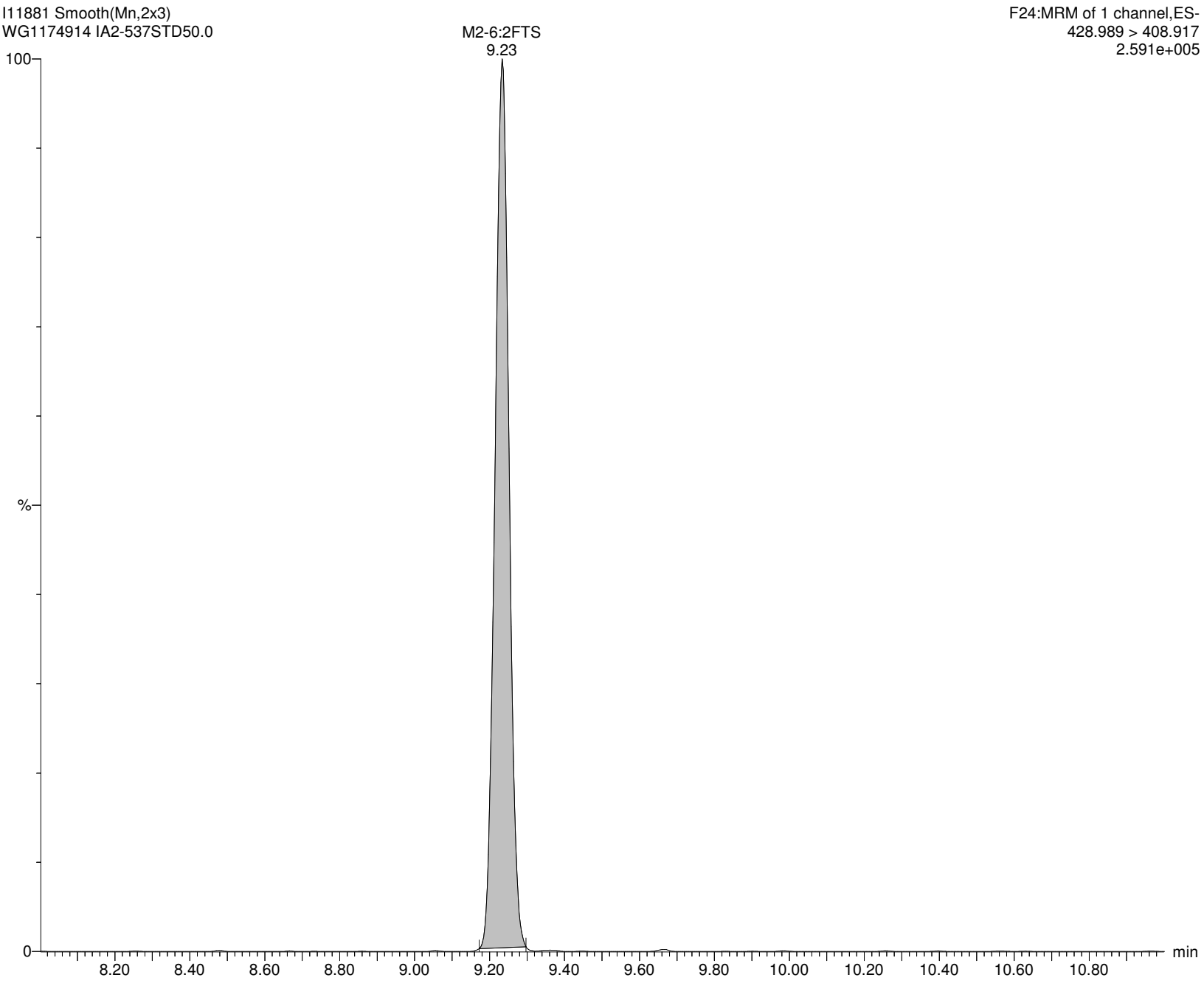

all concentration units in (ng/mL)

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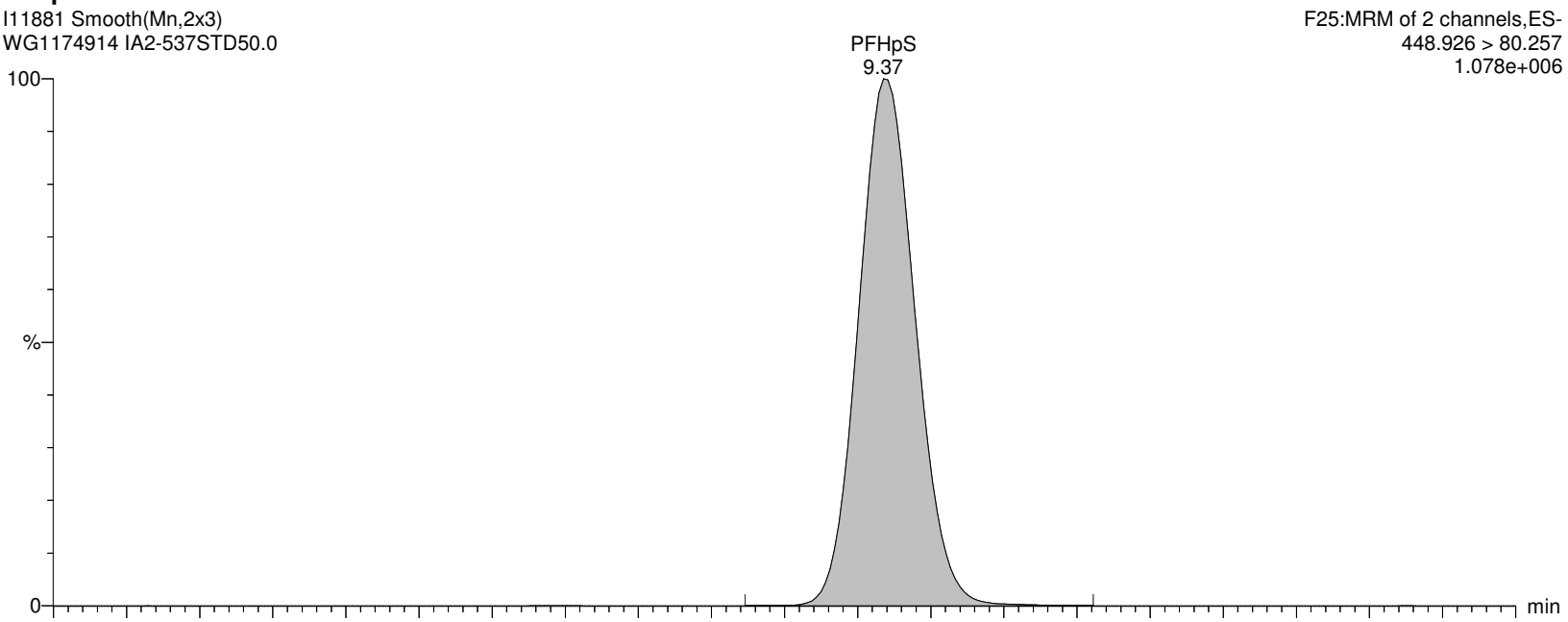

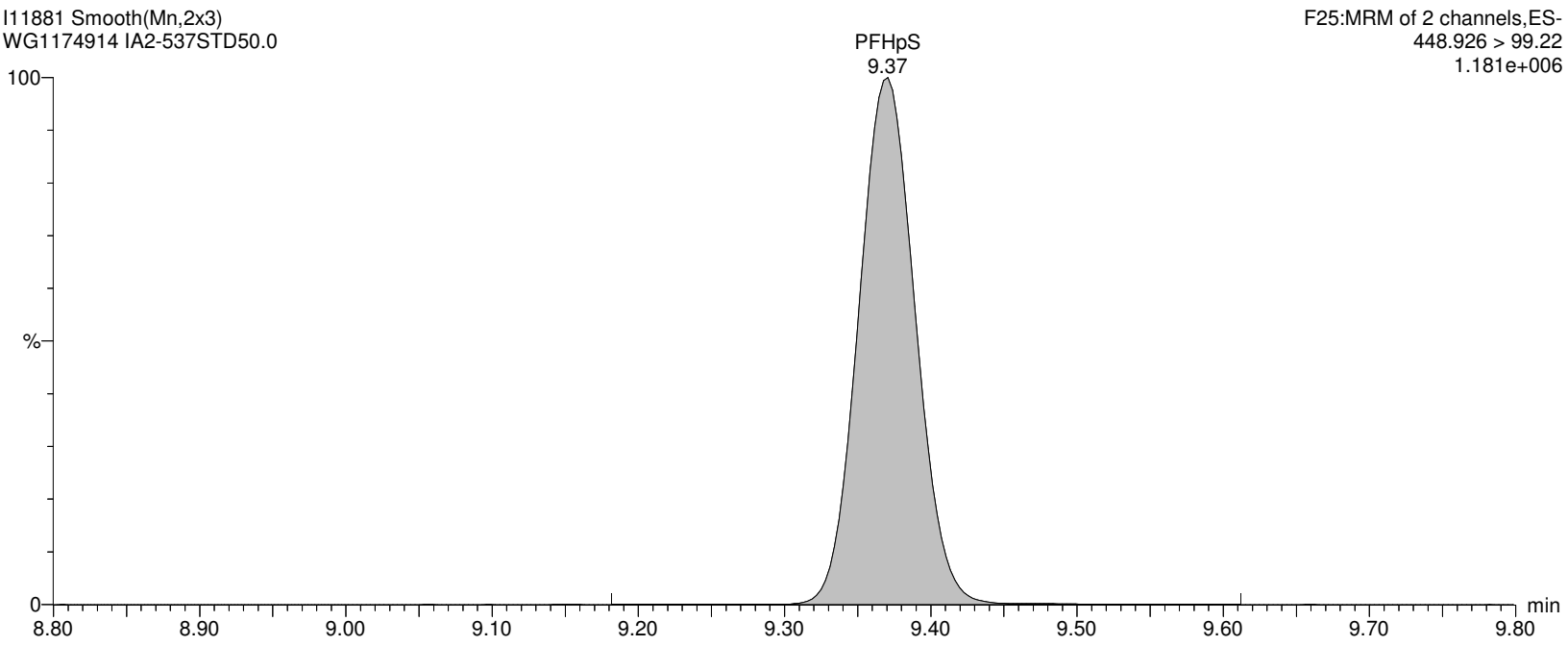

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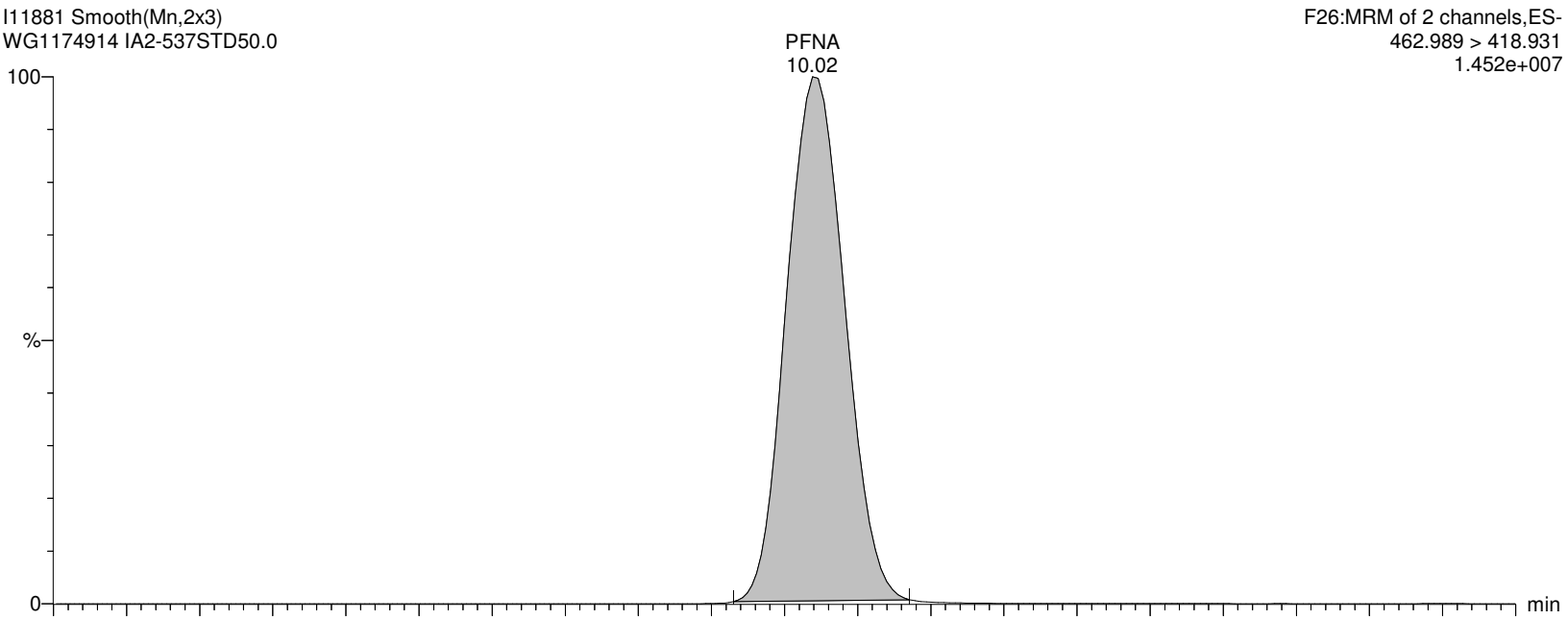

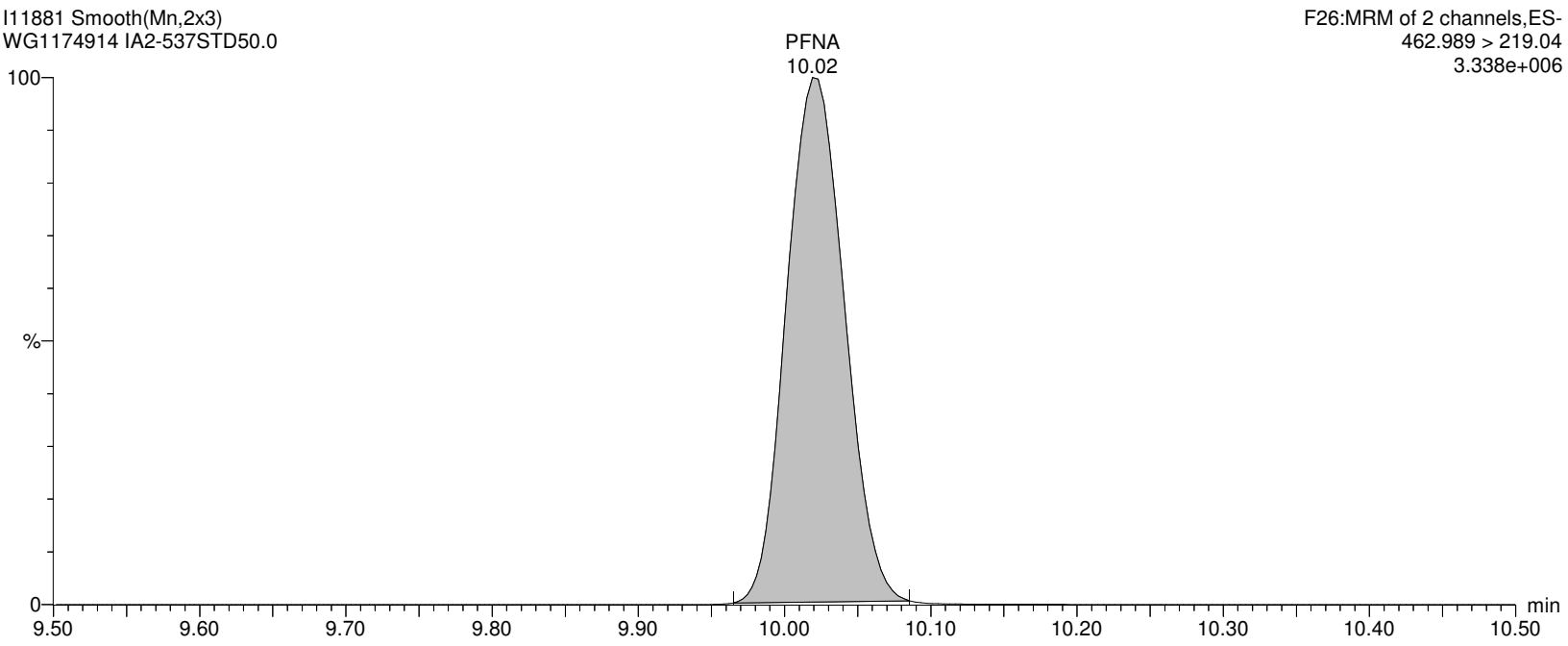

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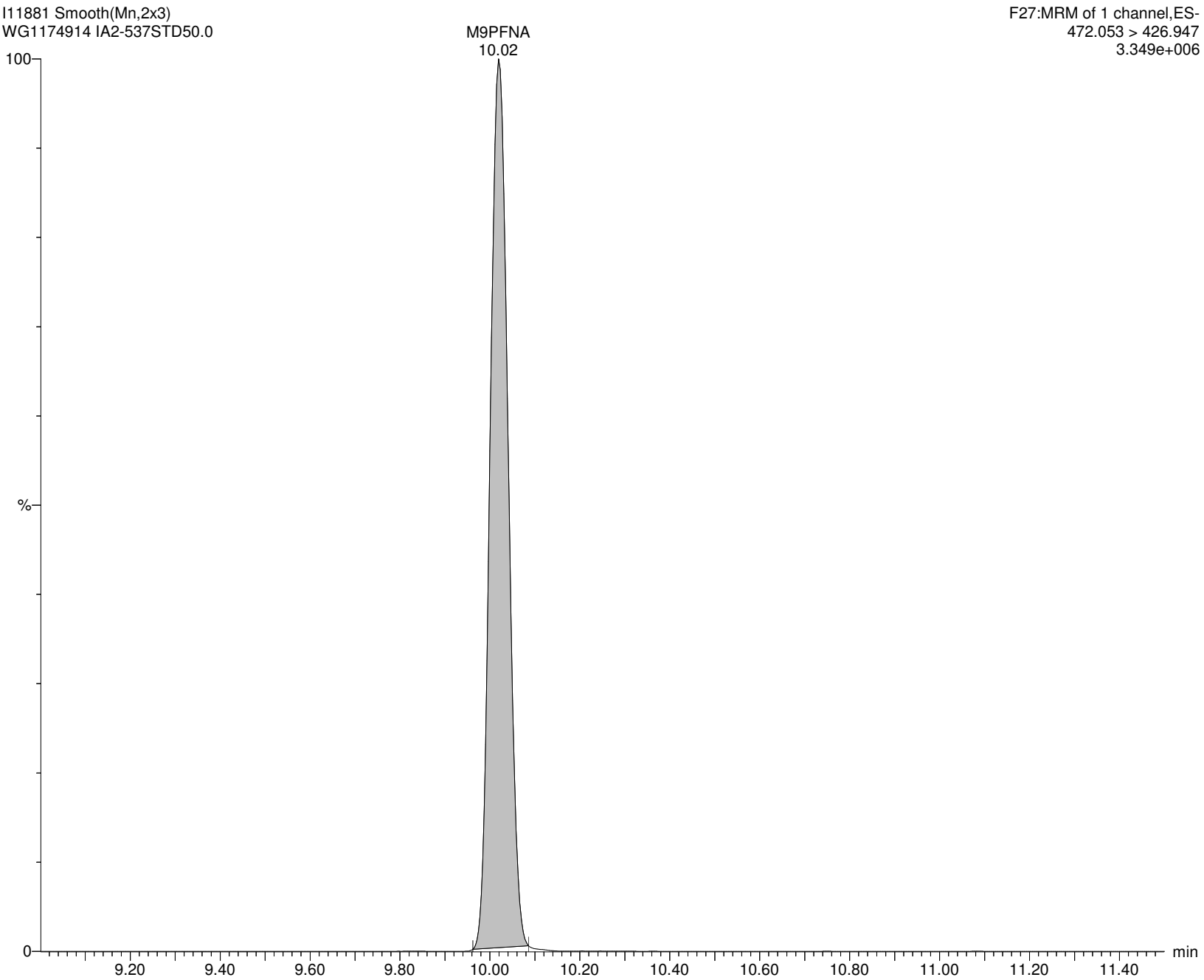

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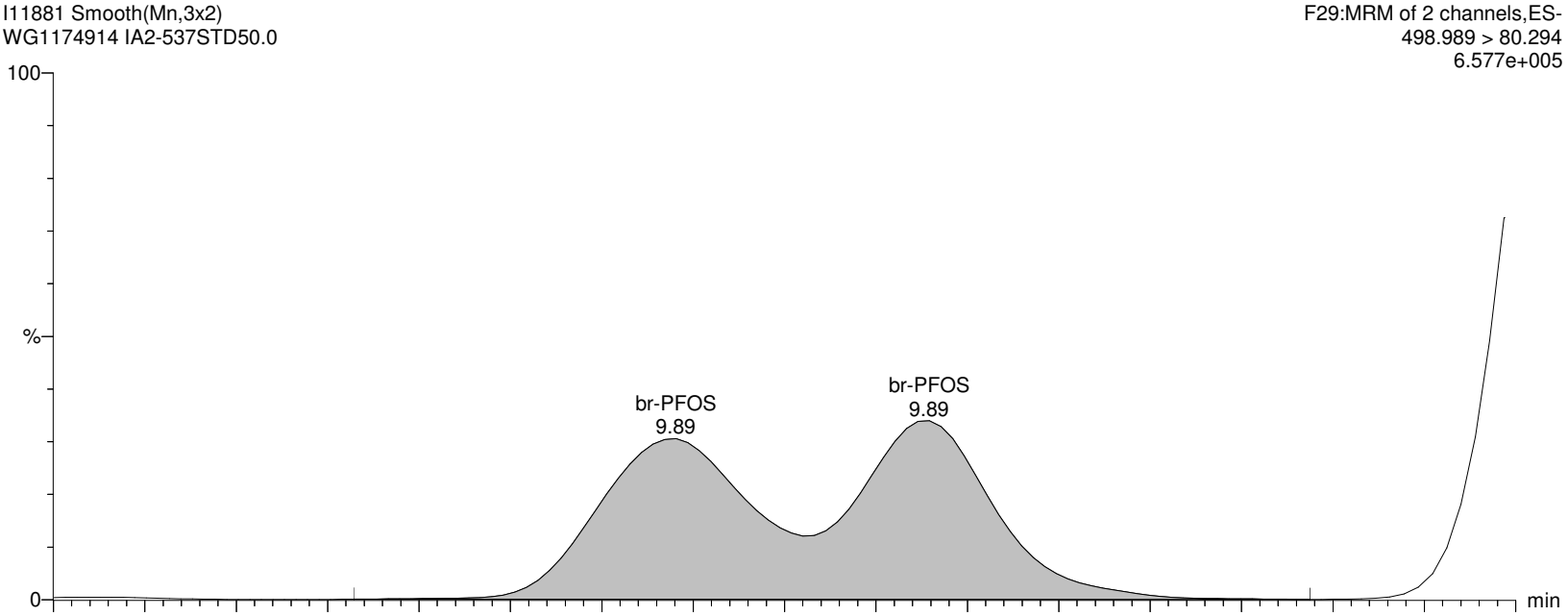

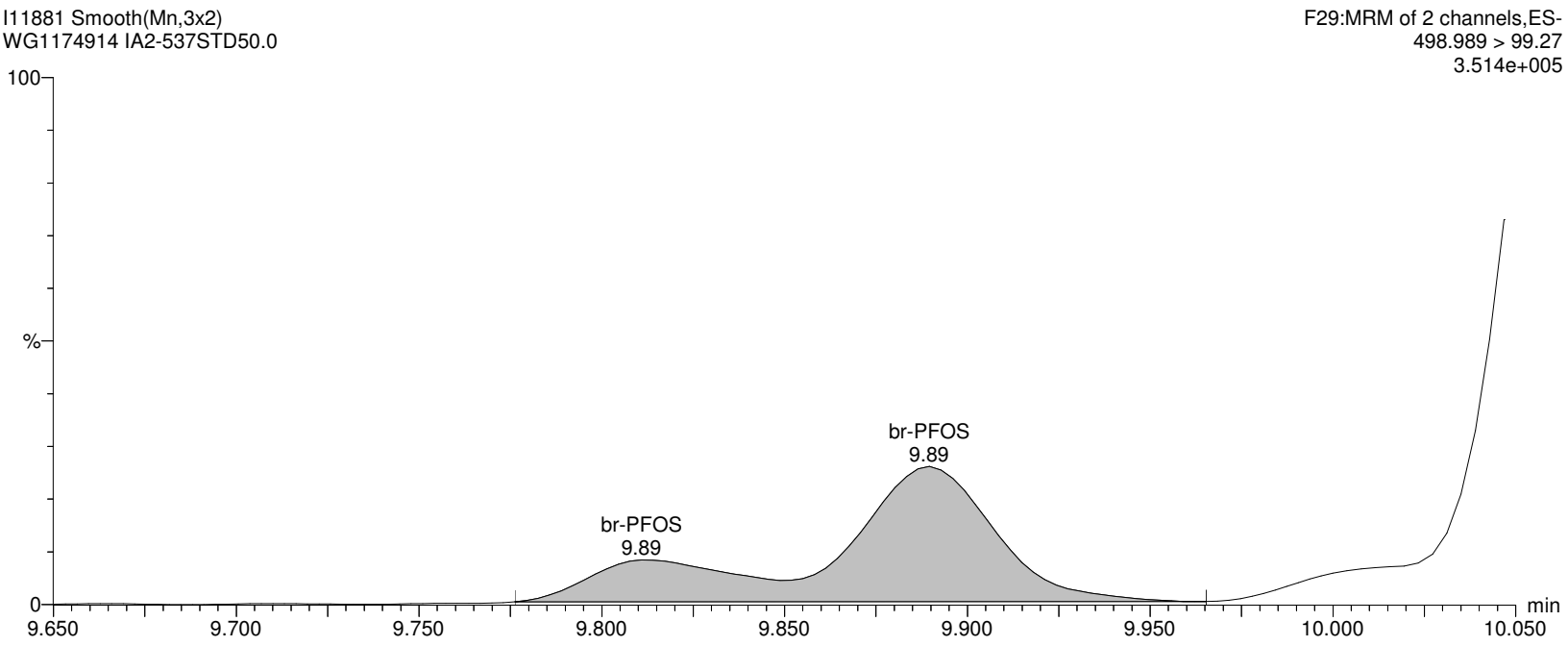

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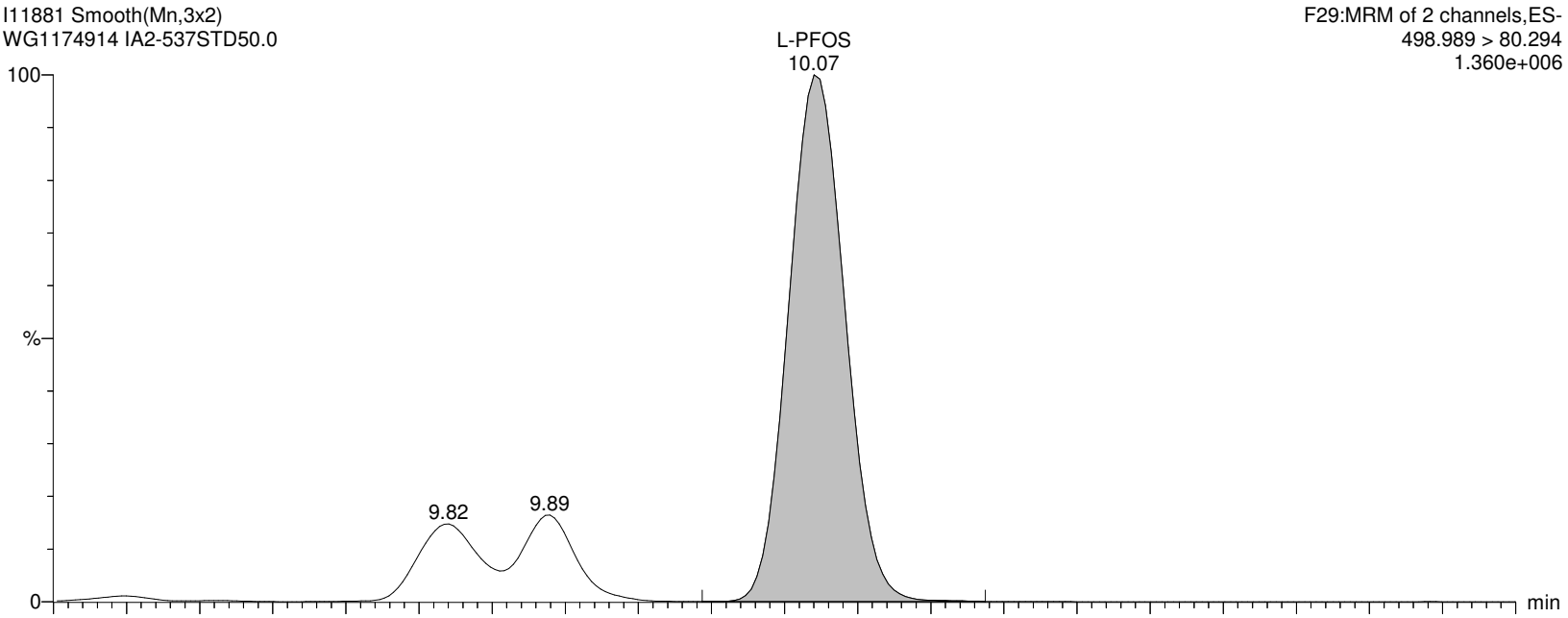

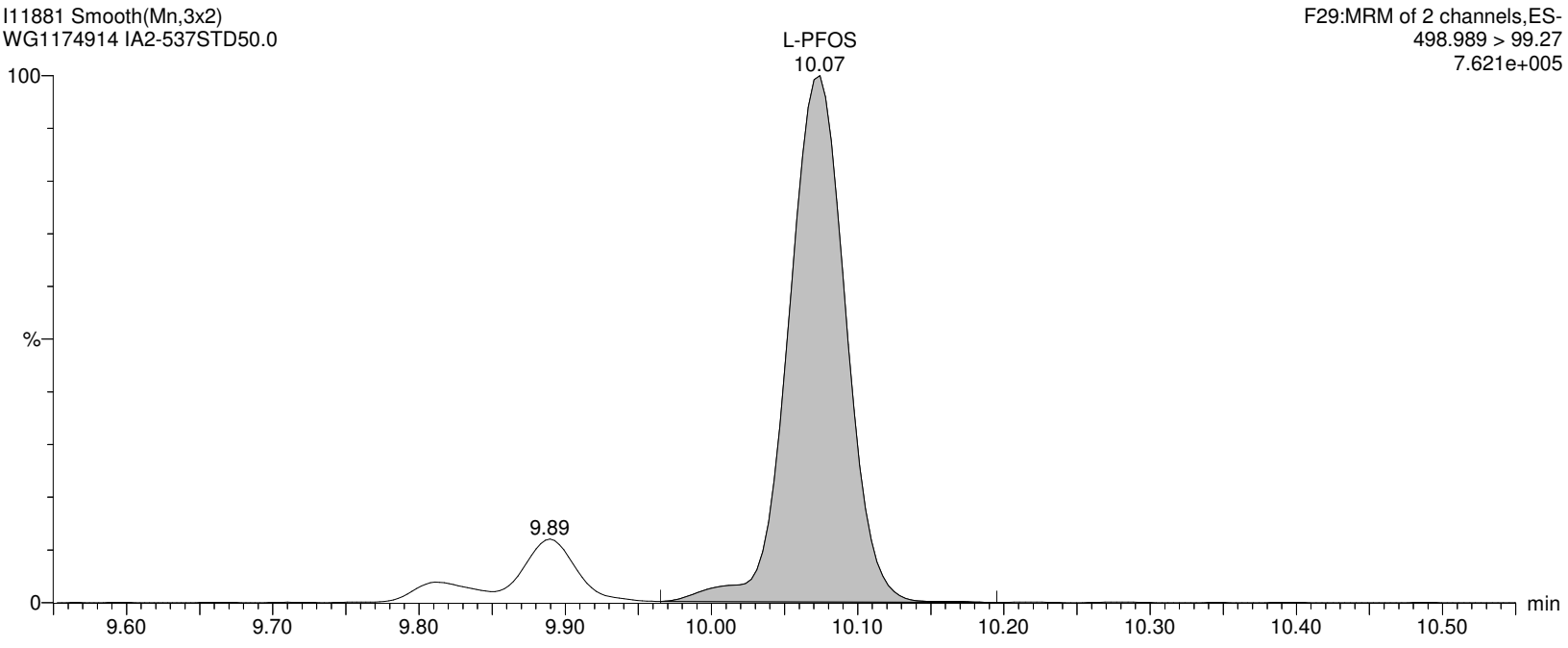

all concentration units in (ng/mL)

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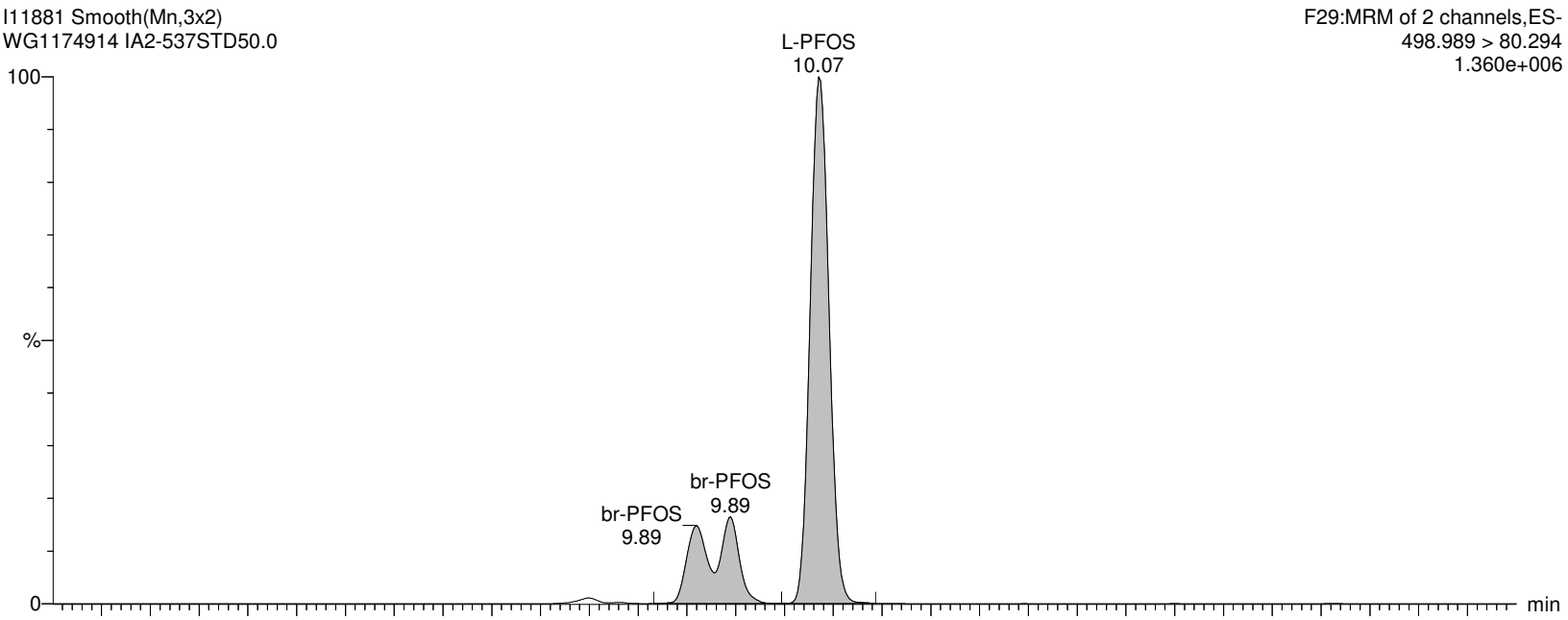

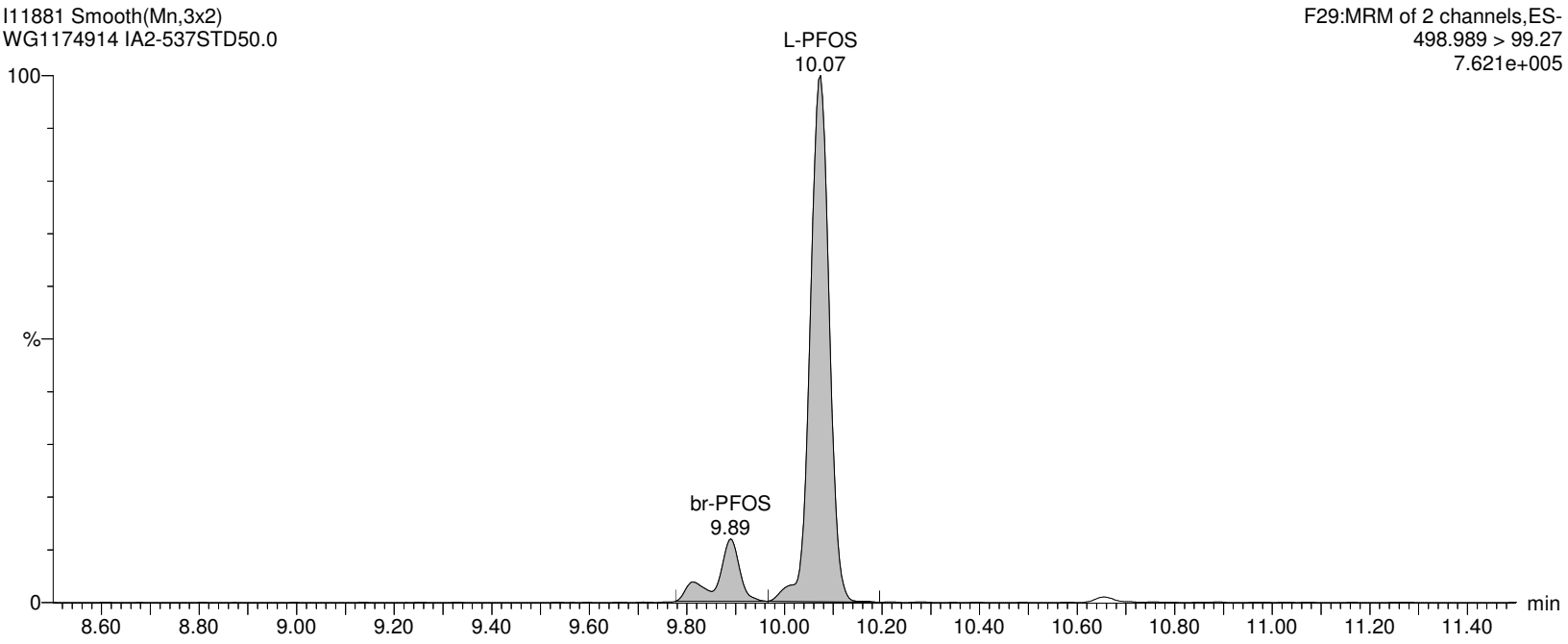

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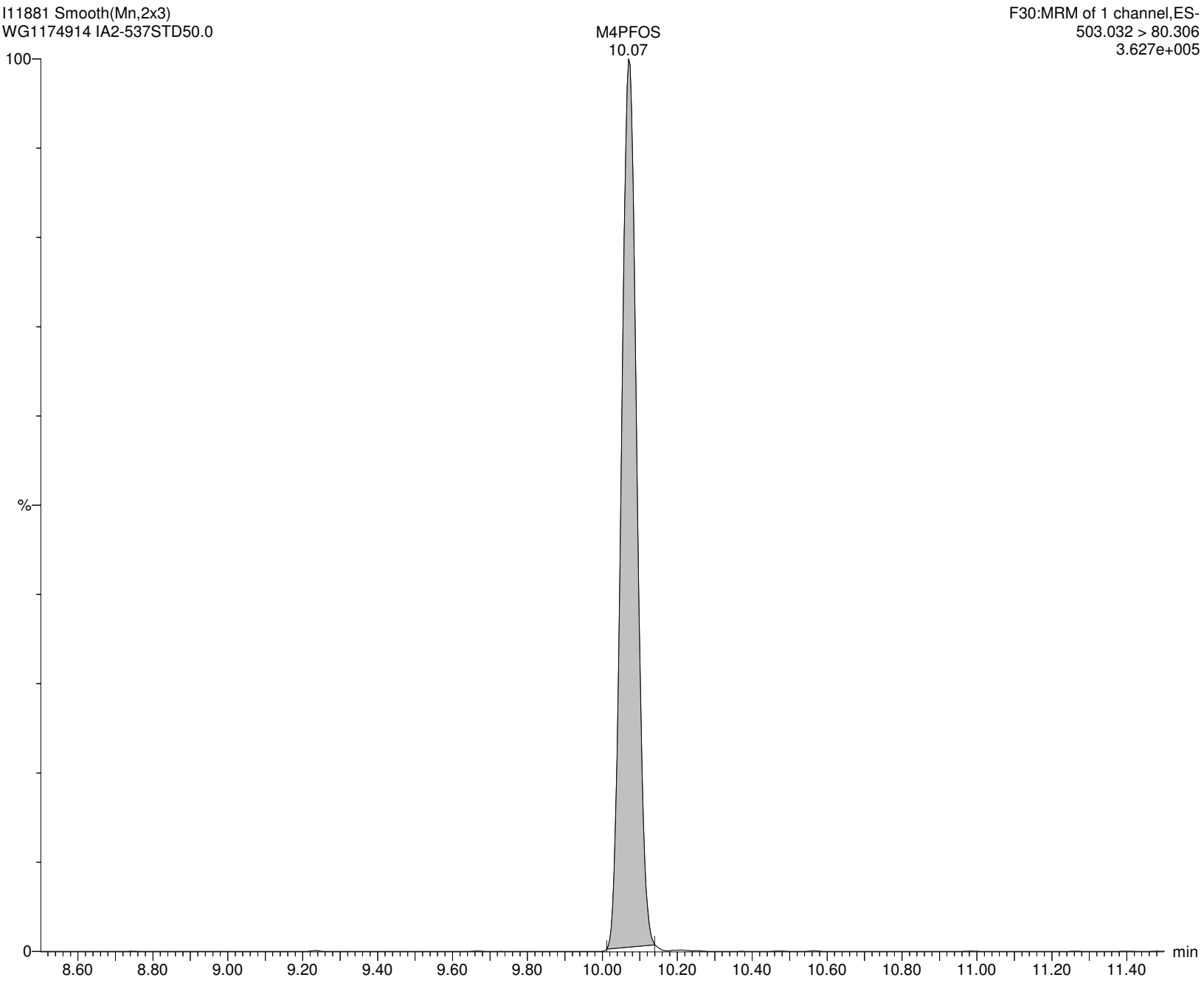

all concentration units in (ng/mL)

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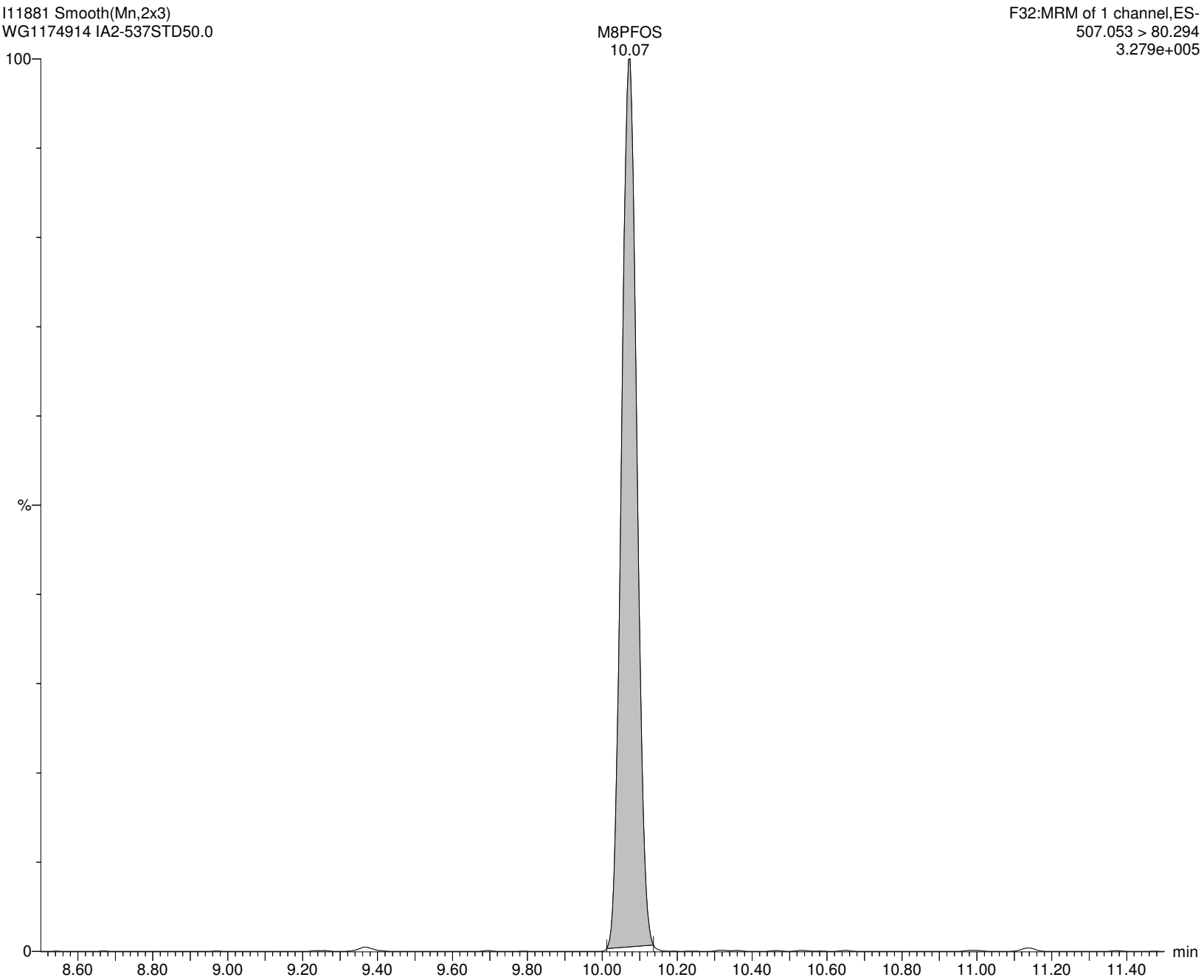

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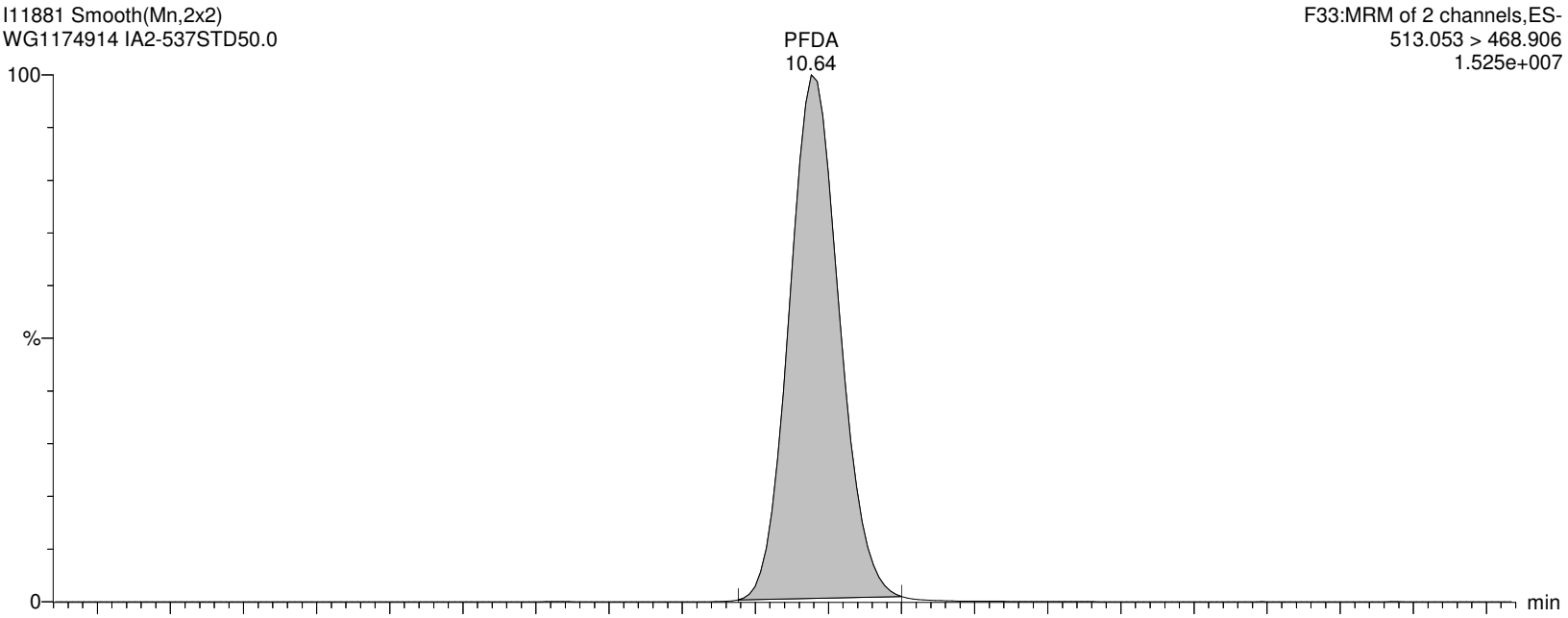

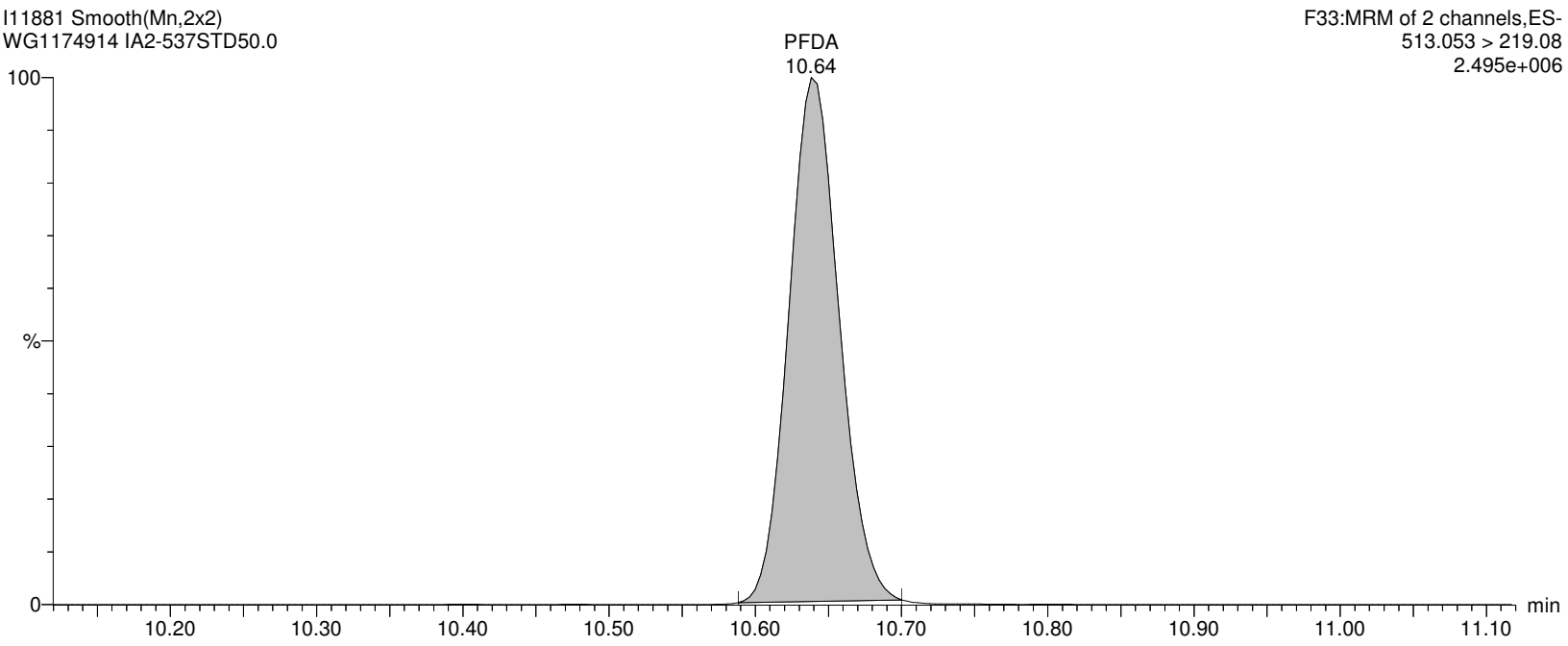

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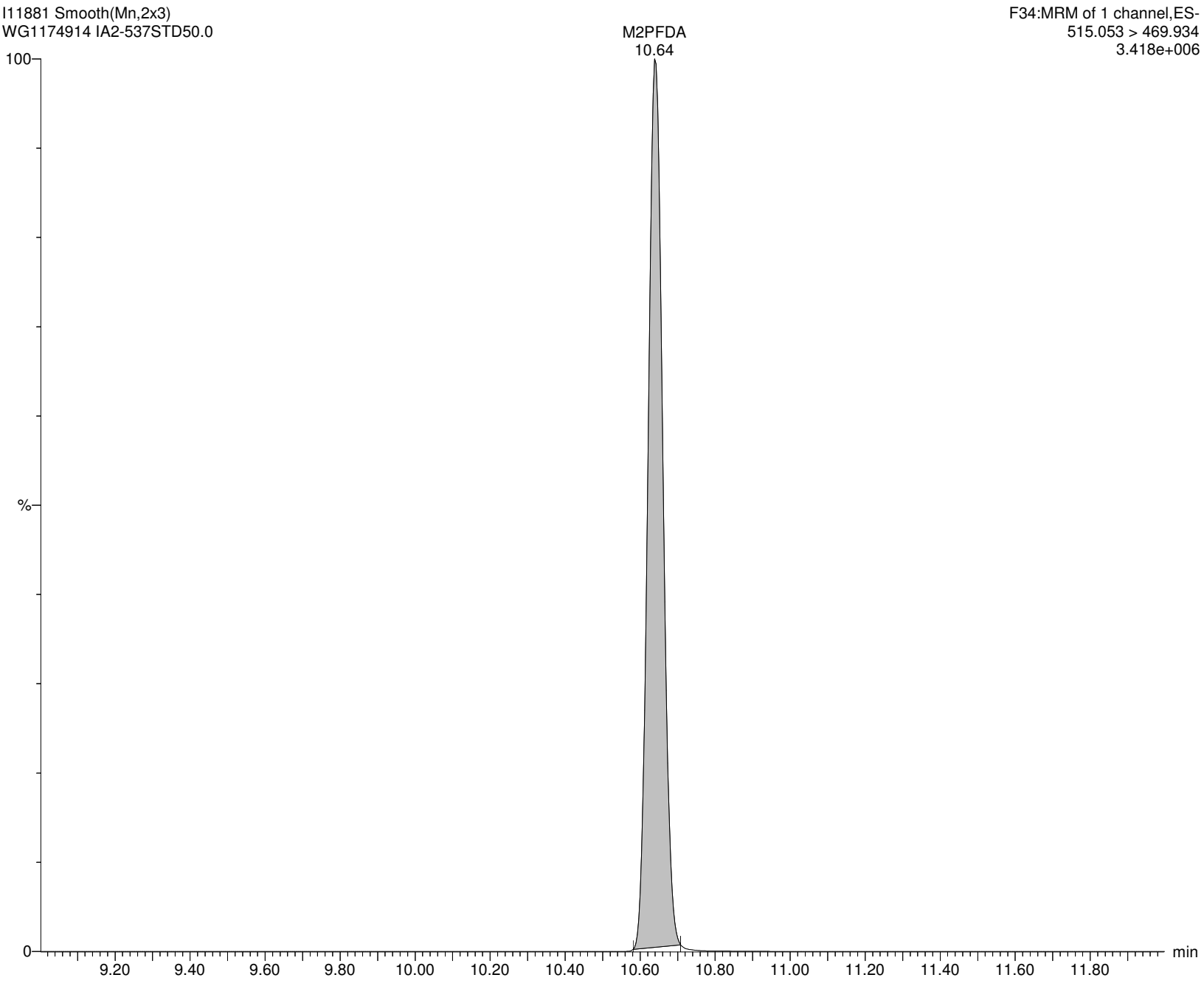

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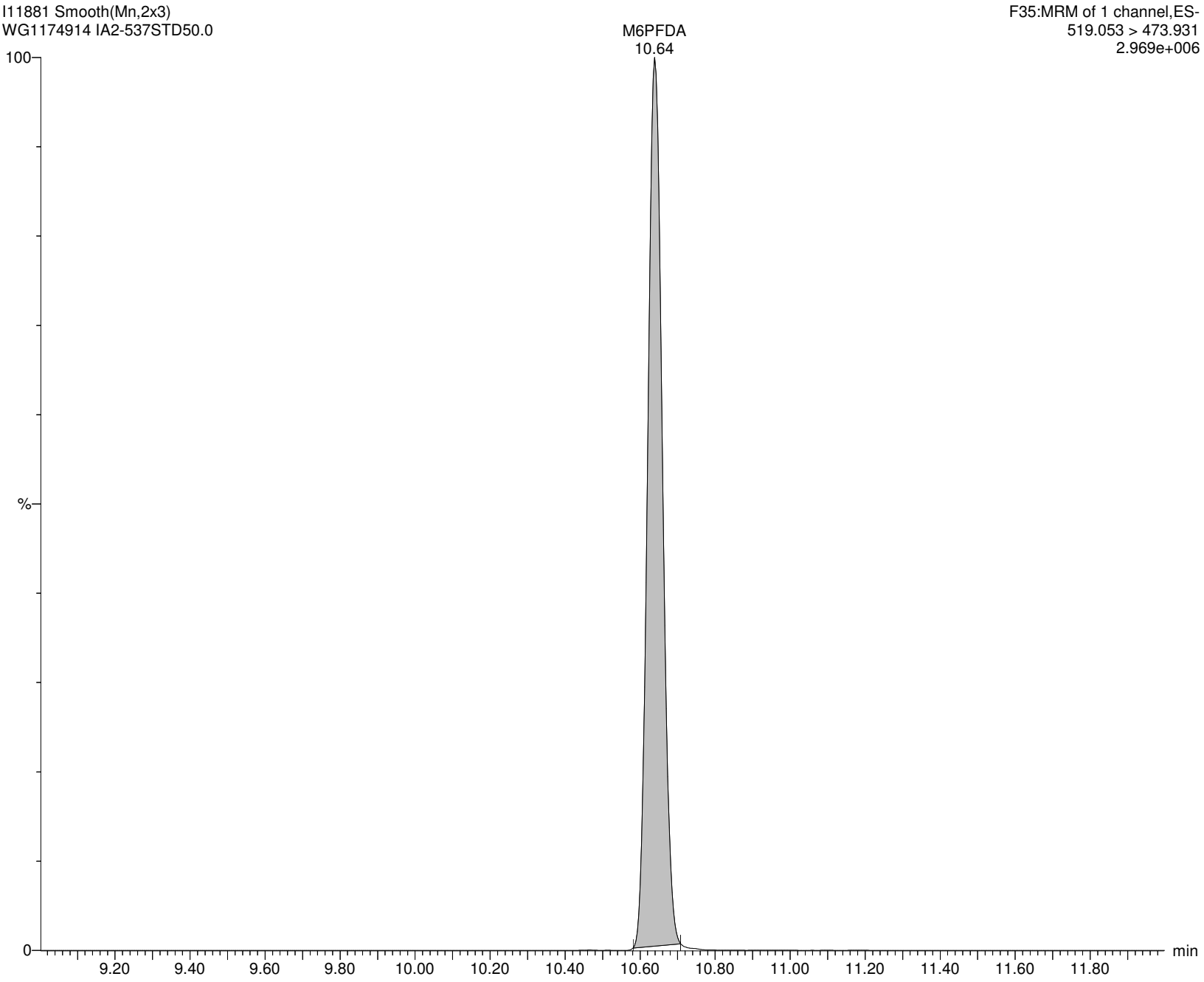

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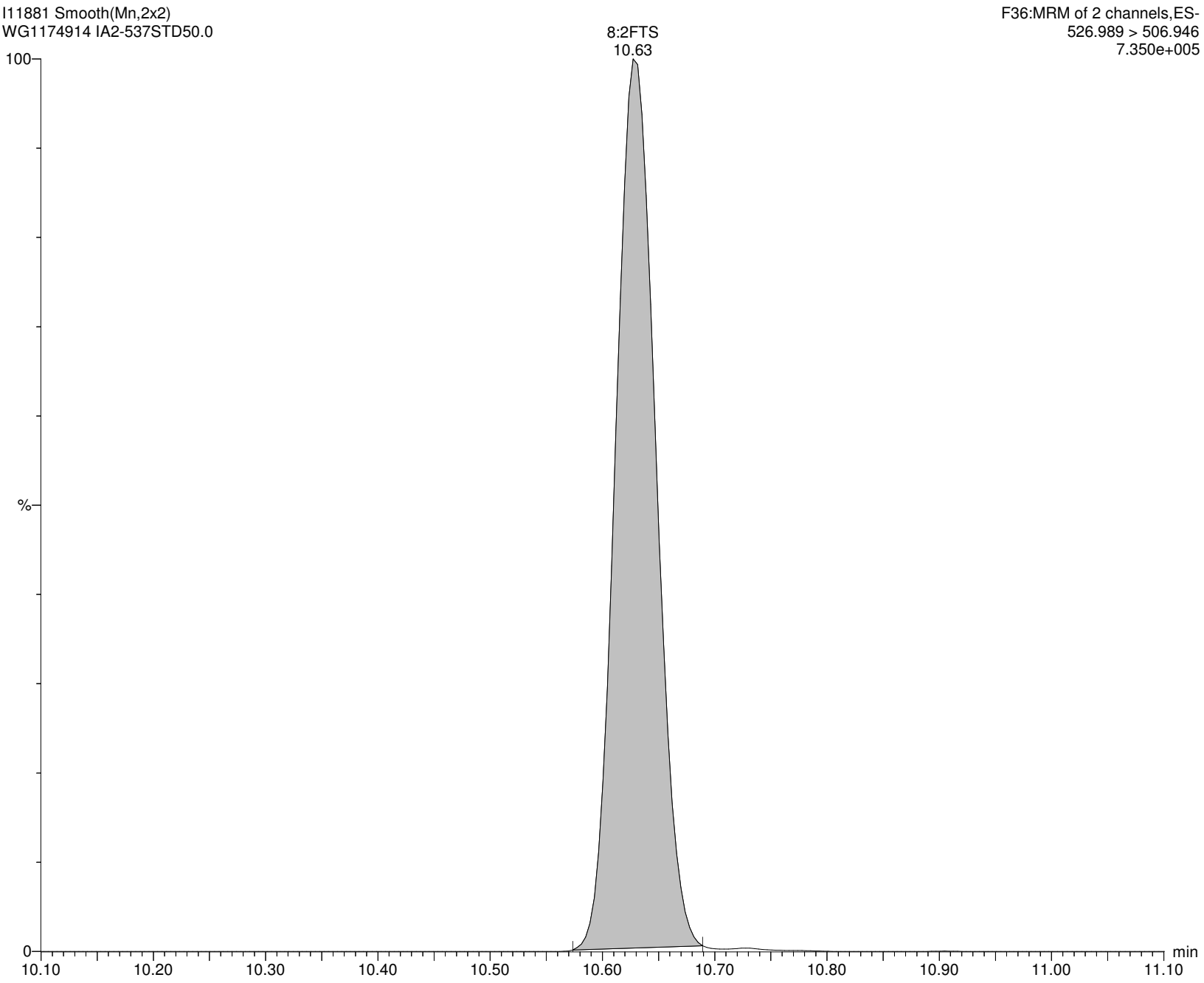

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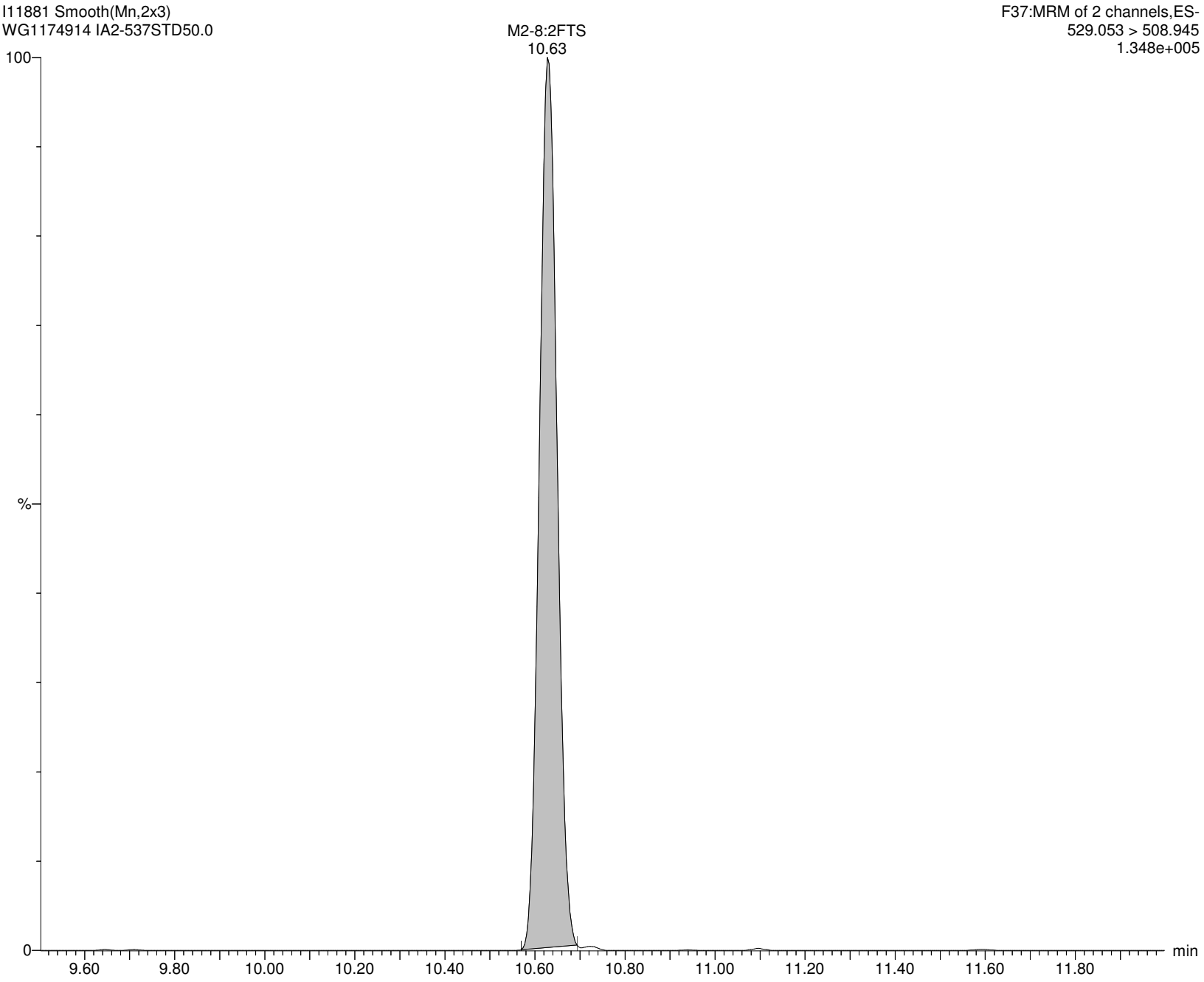

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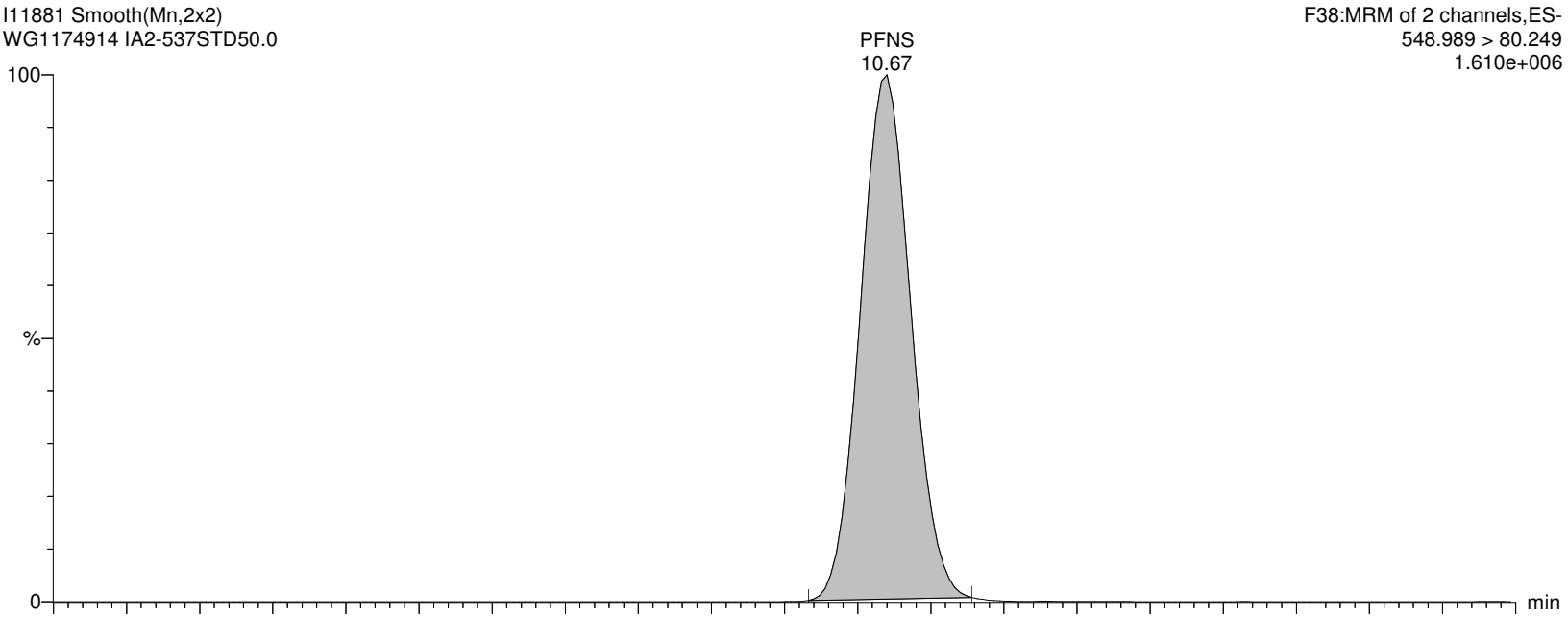

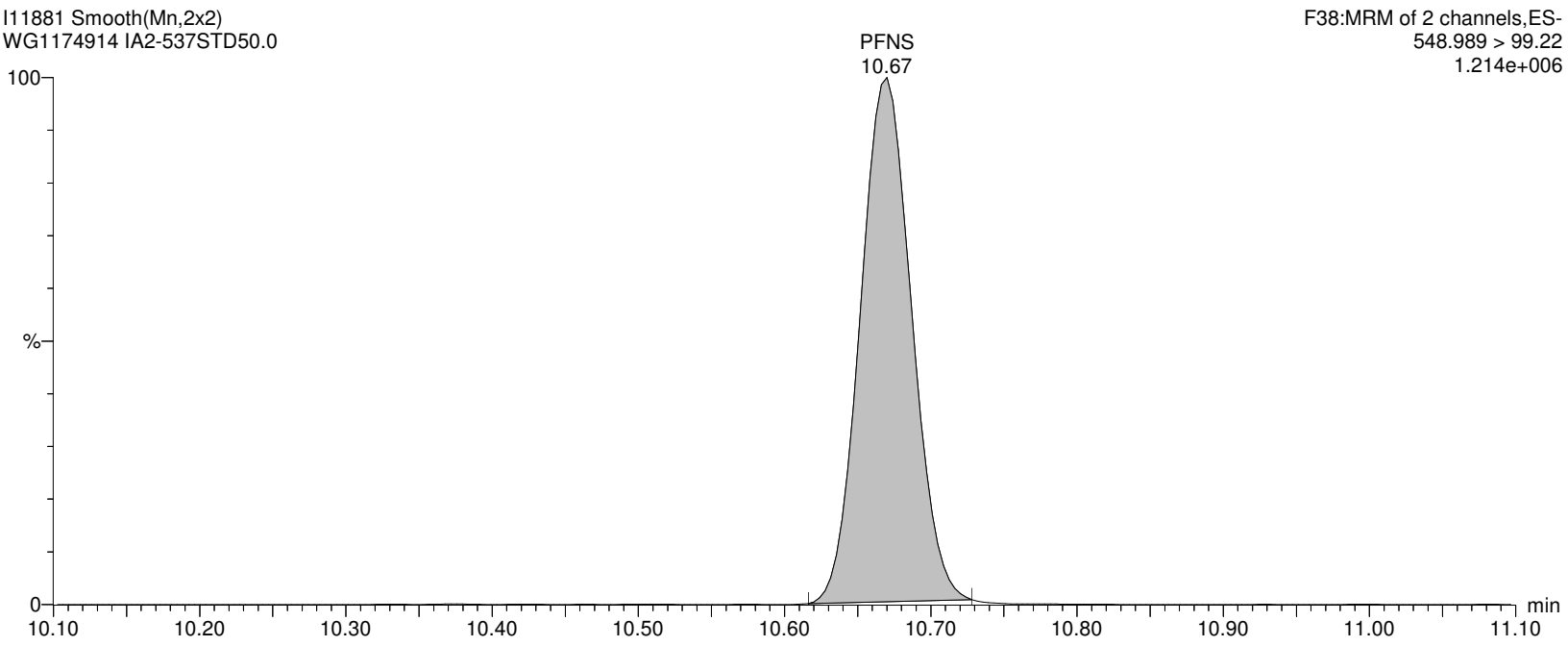

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:23 Eastern Daylight Time

Name: I11881
ID: IA2-537STD50.0
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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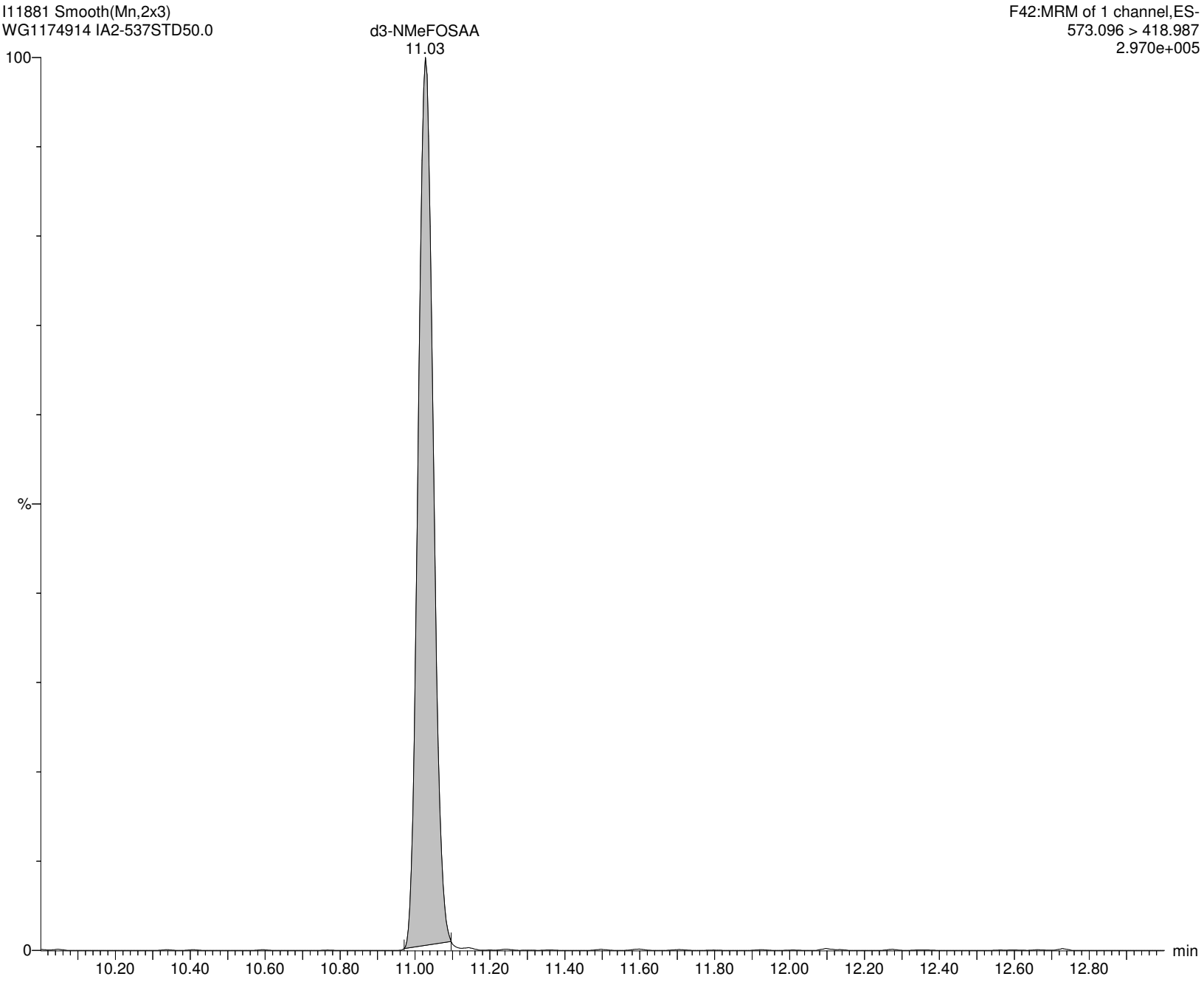
d3-NMeFOSAA



all concentration units in (ng/mL)

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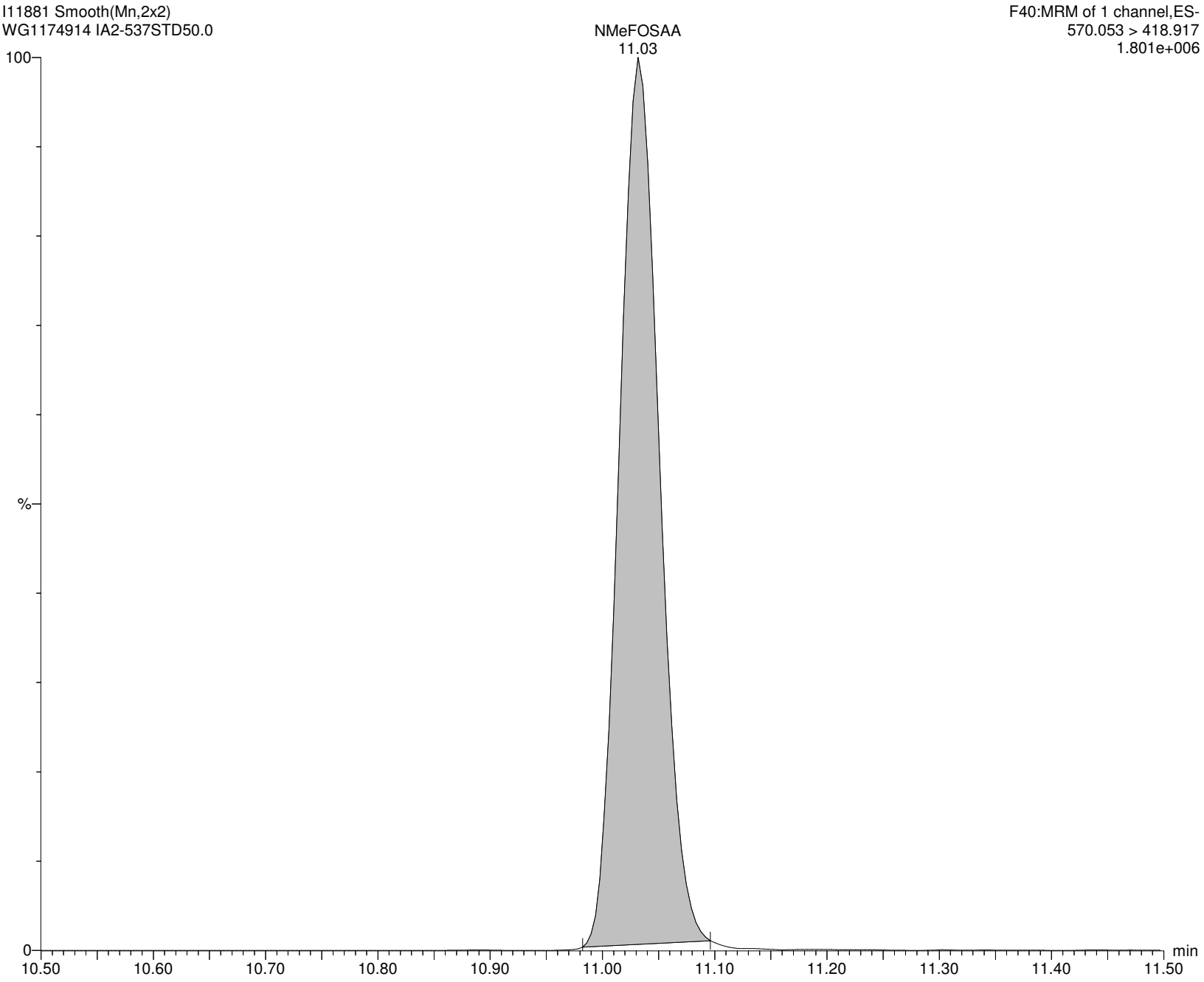

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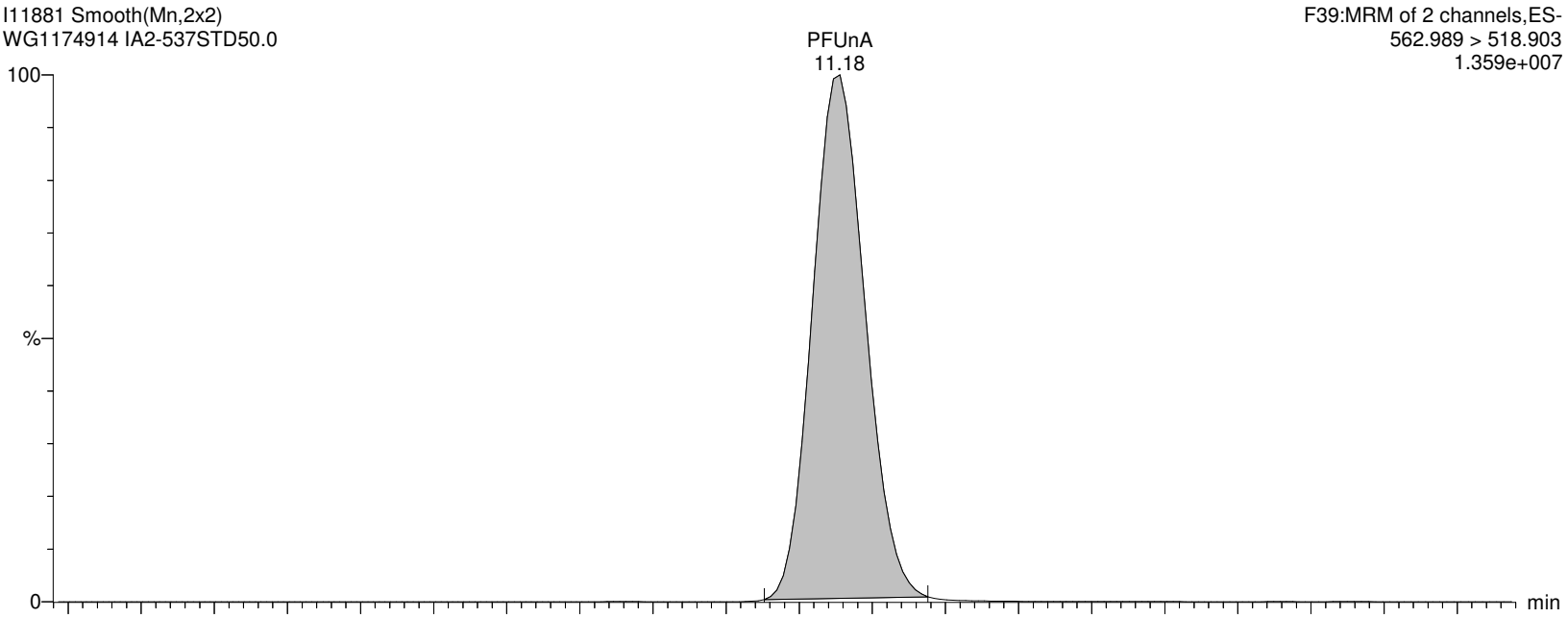

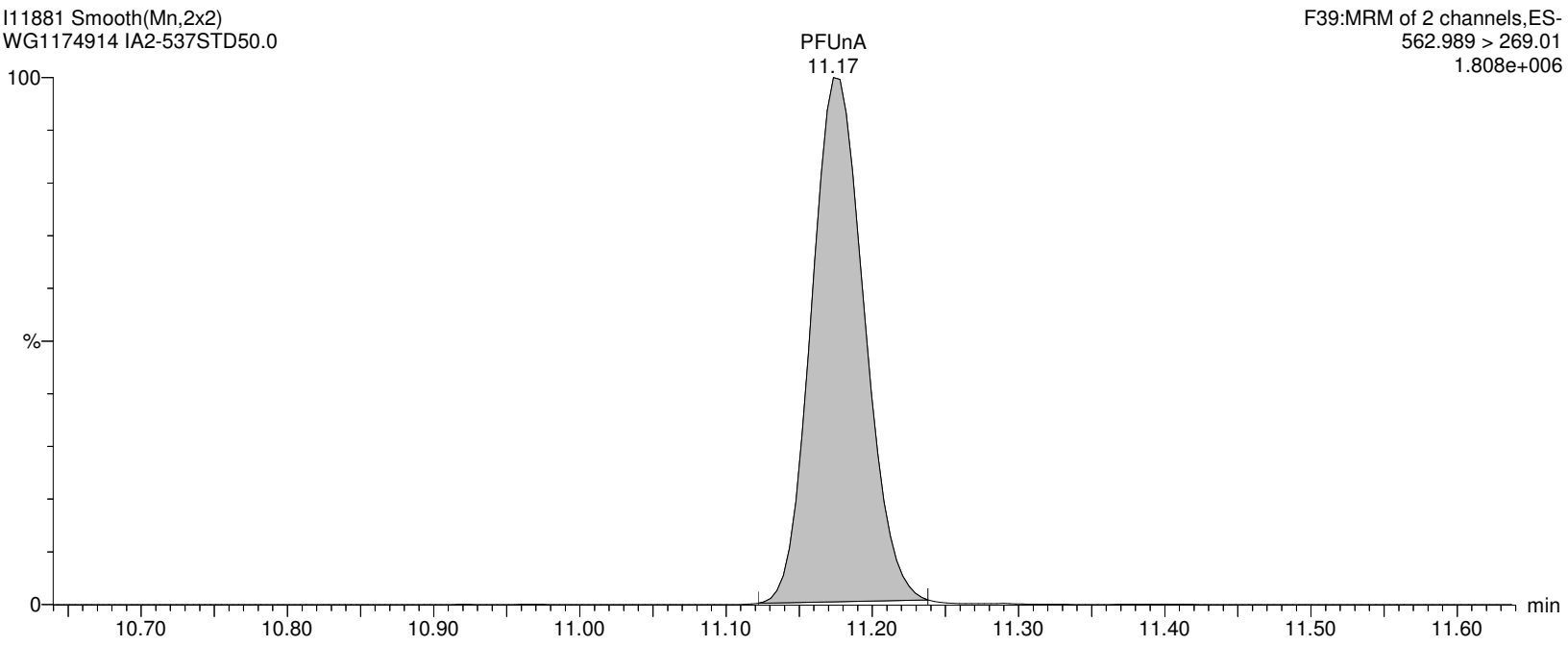

all concentration units in (ng/mL)

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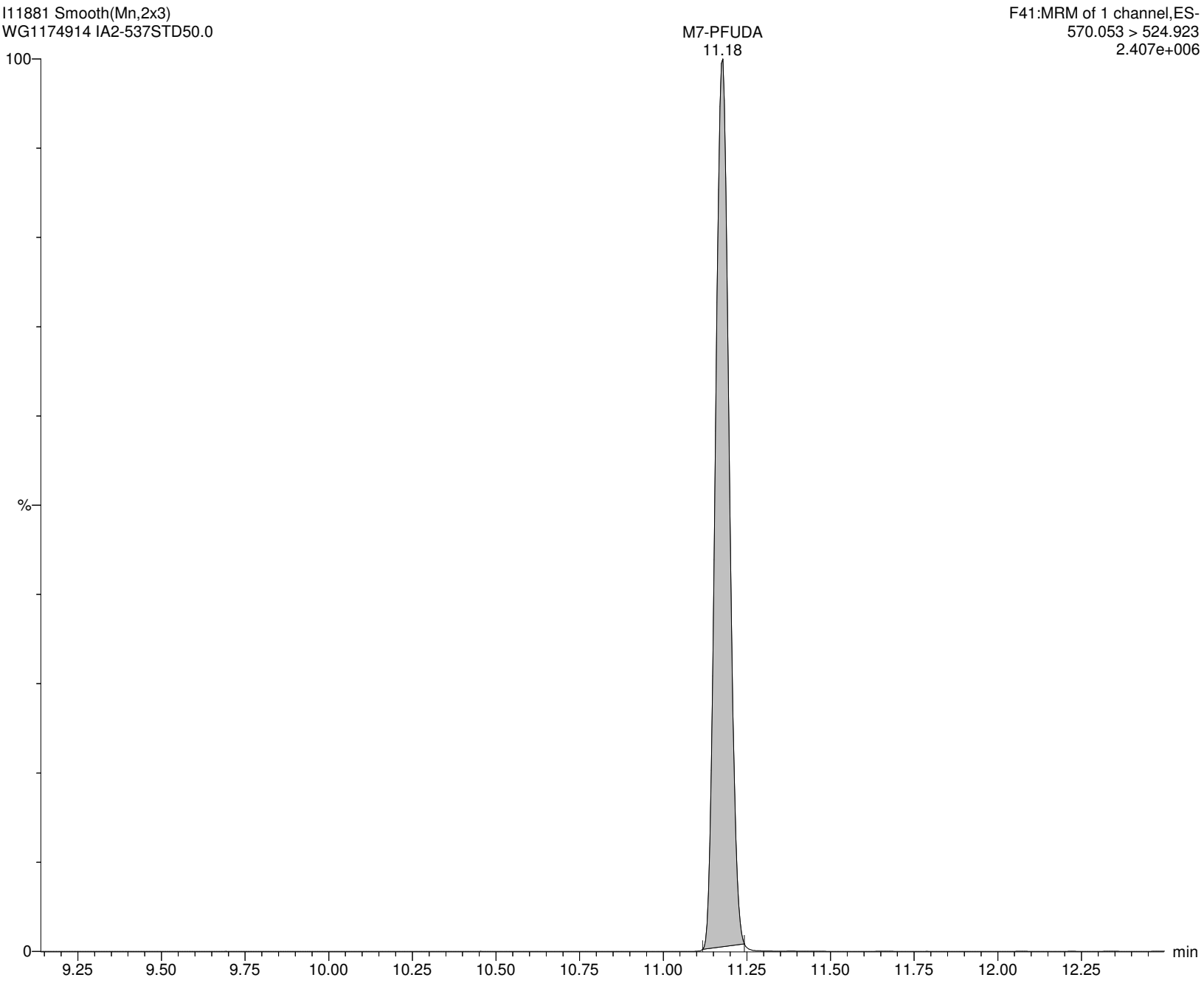

all concentration units in (ng/mL)

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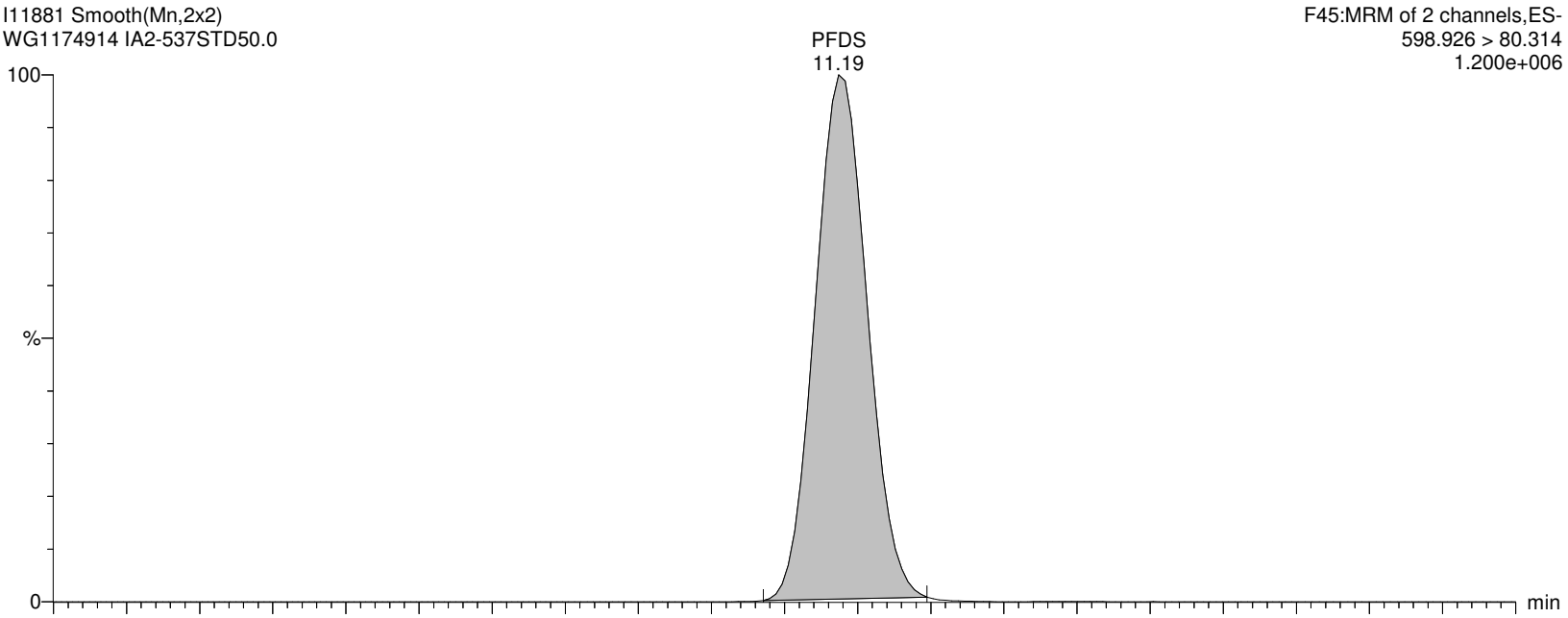

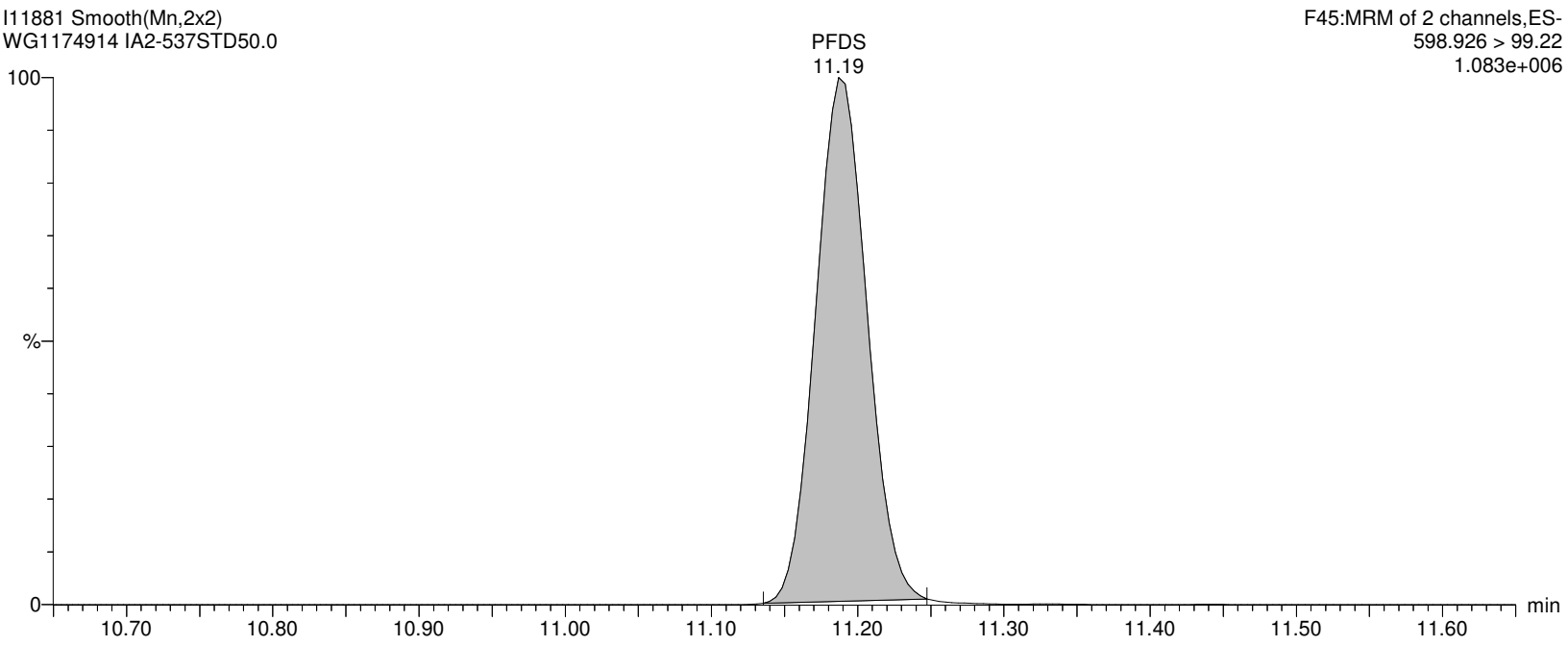

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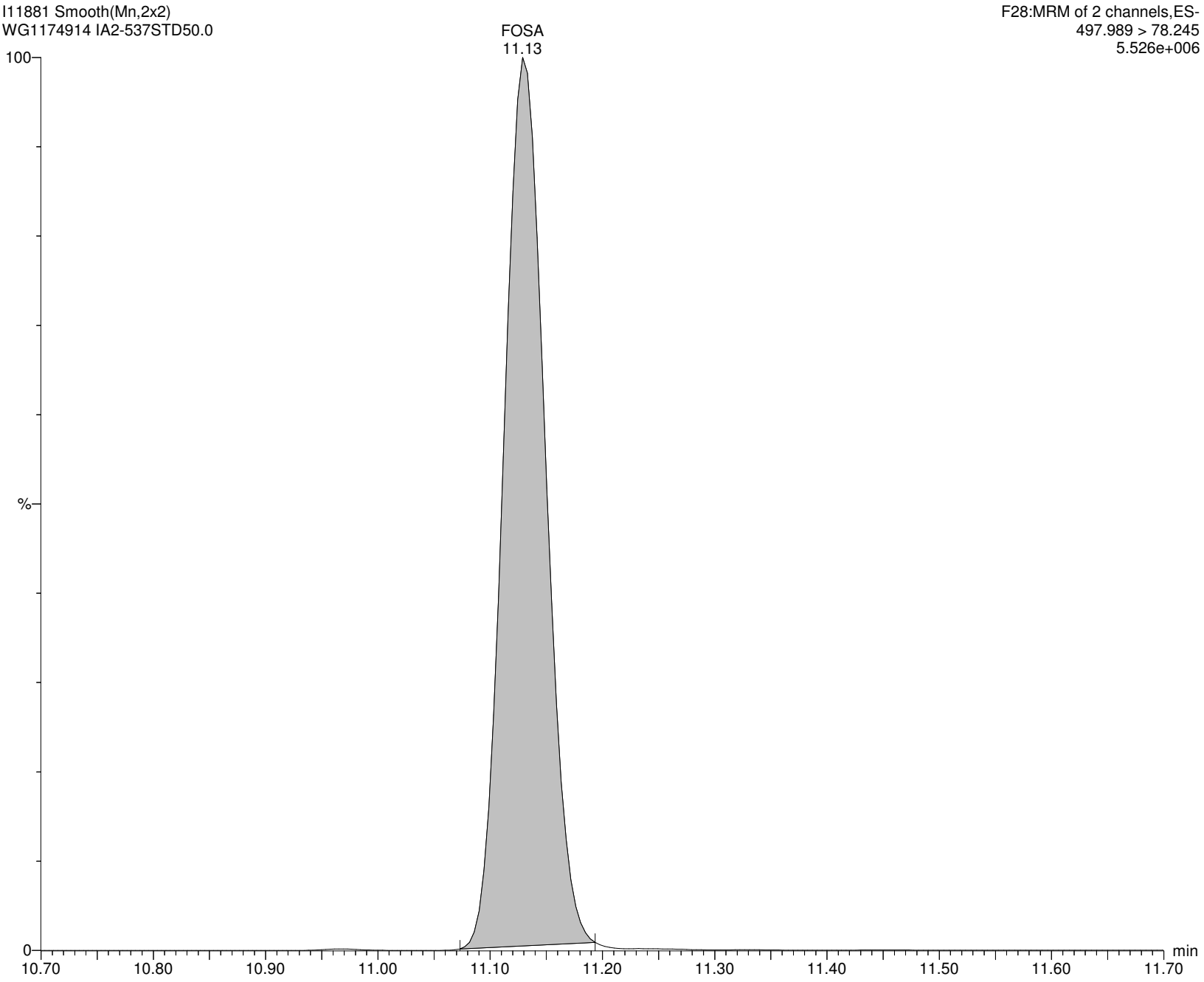

all concentration units in (ng/mL)

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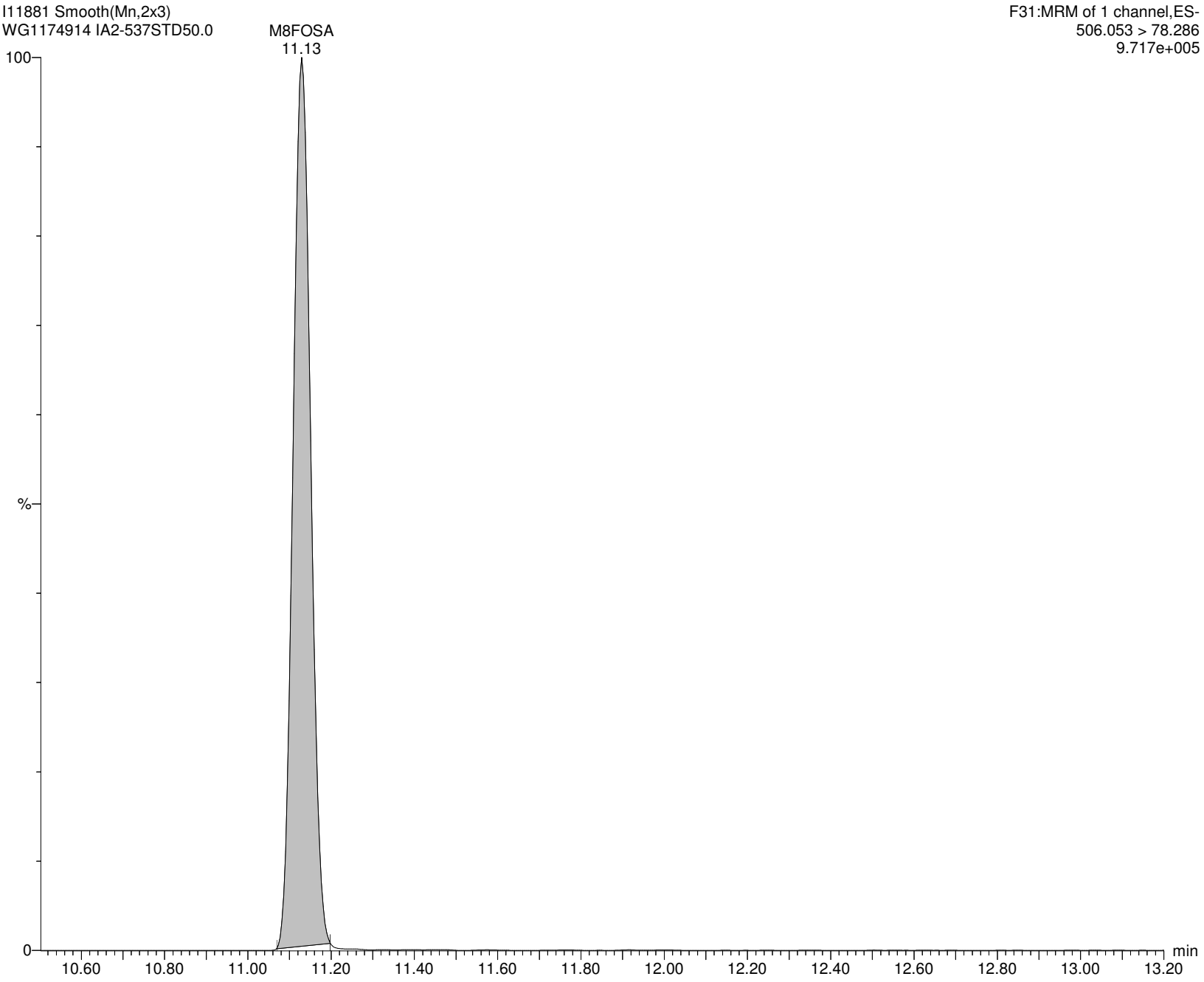

all concentration units in (ng/mL)

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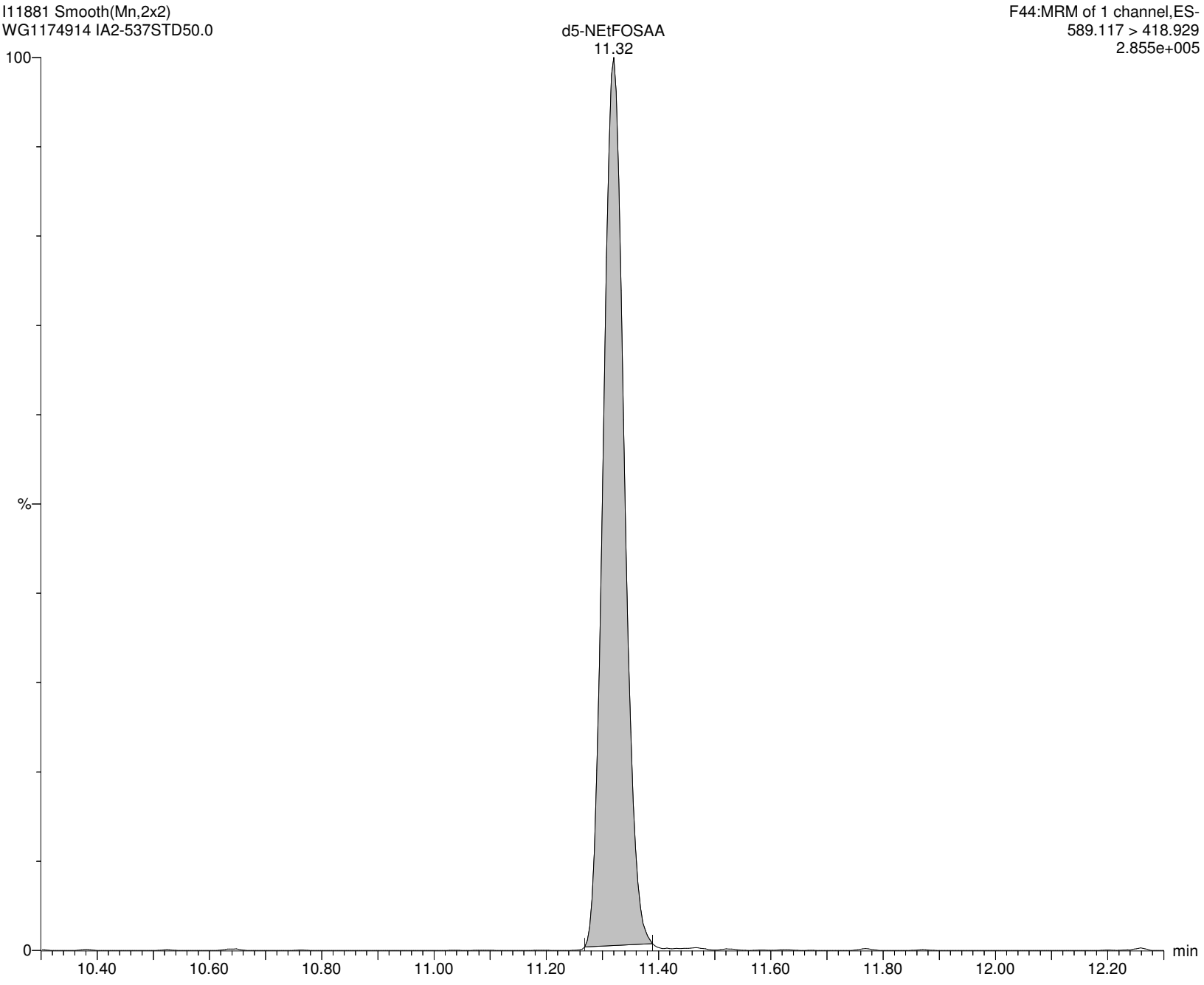

all concentration units in (ng/mL)

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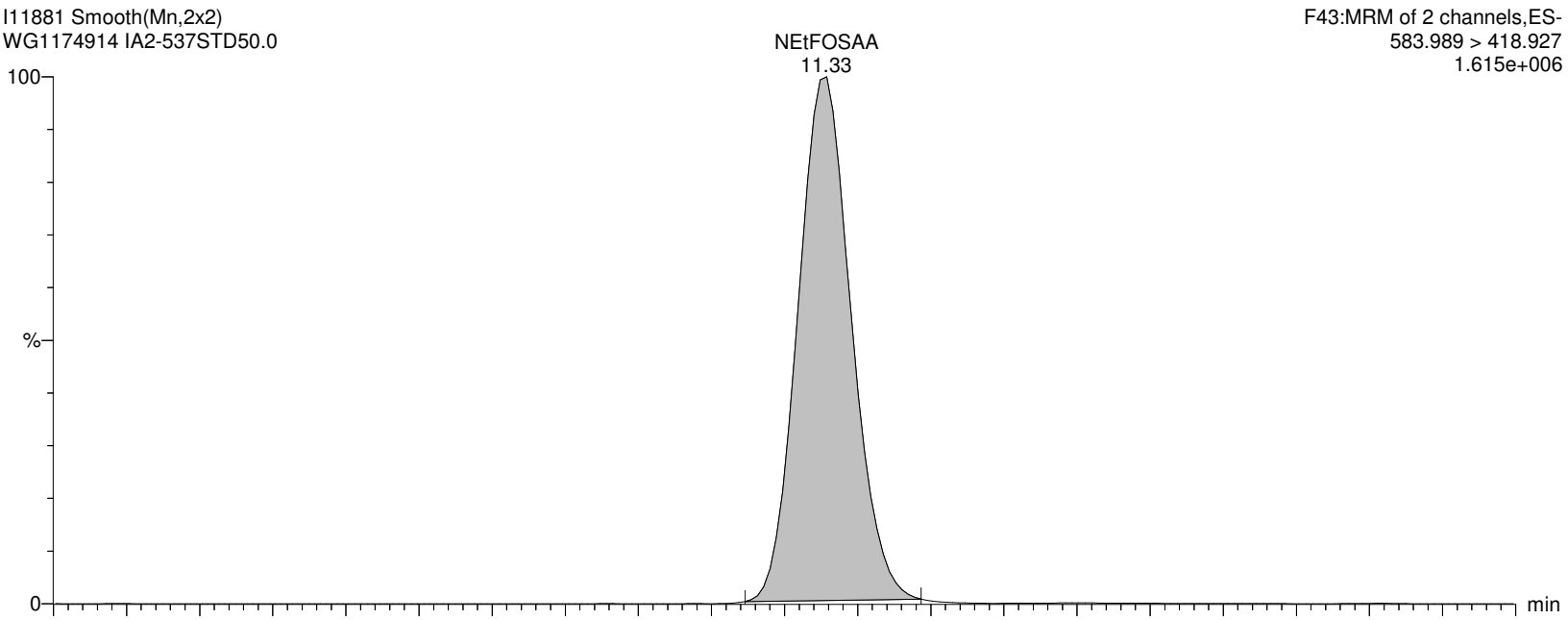

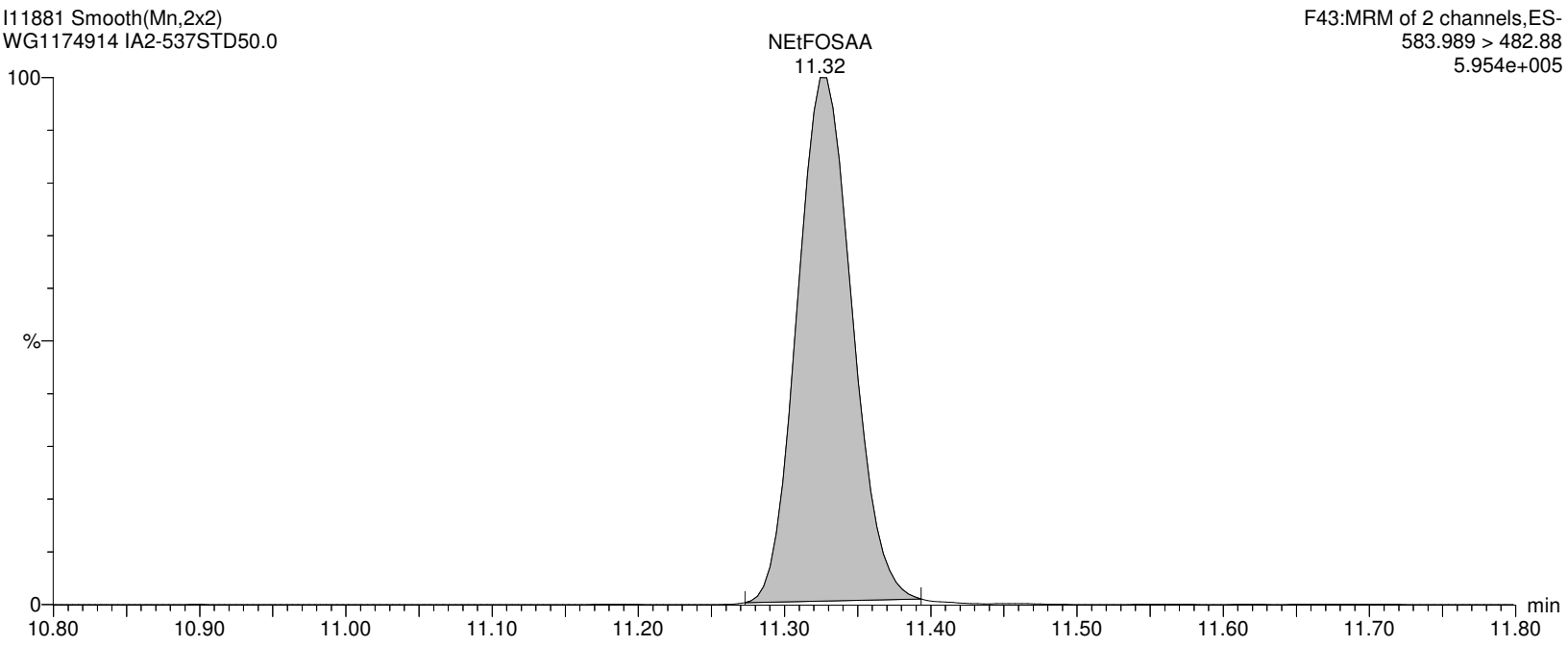

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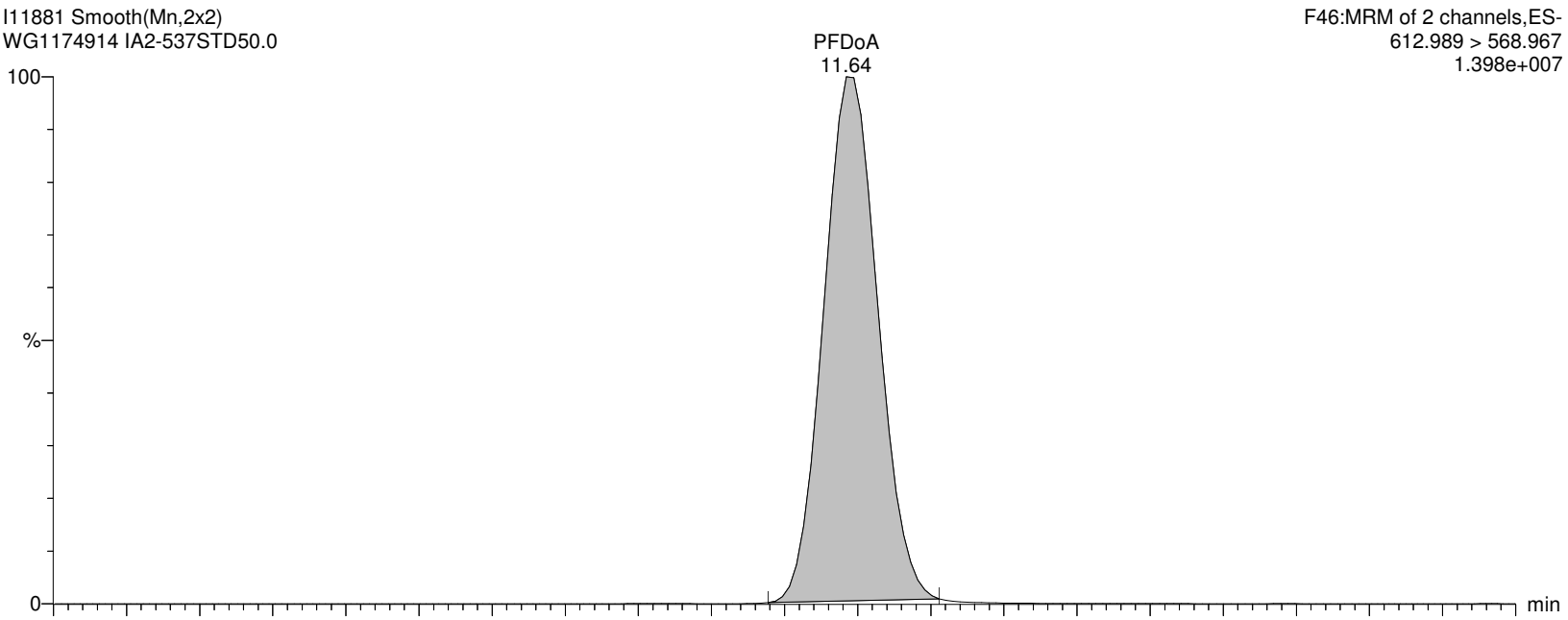

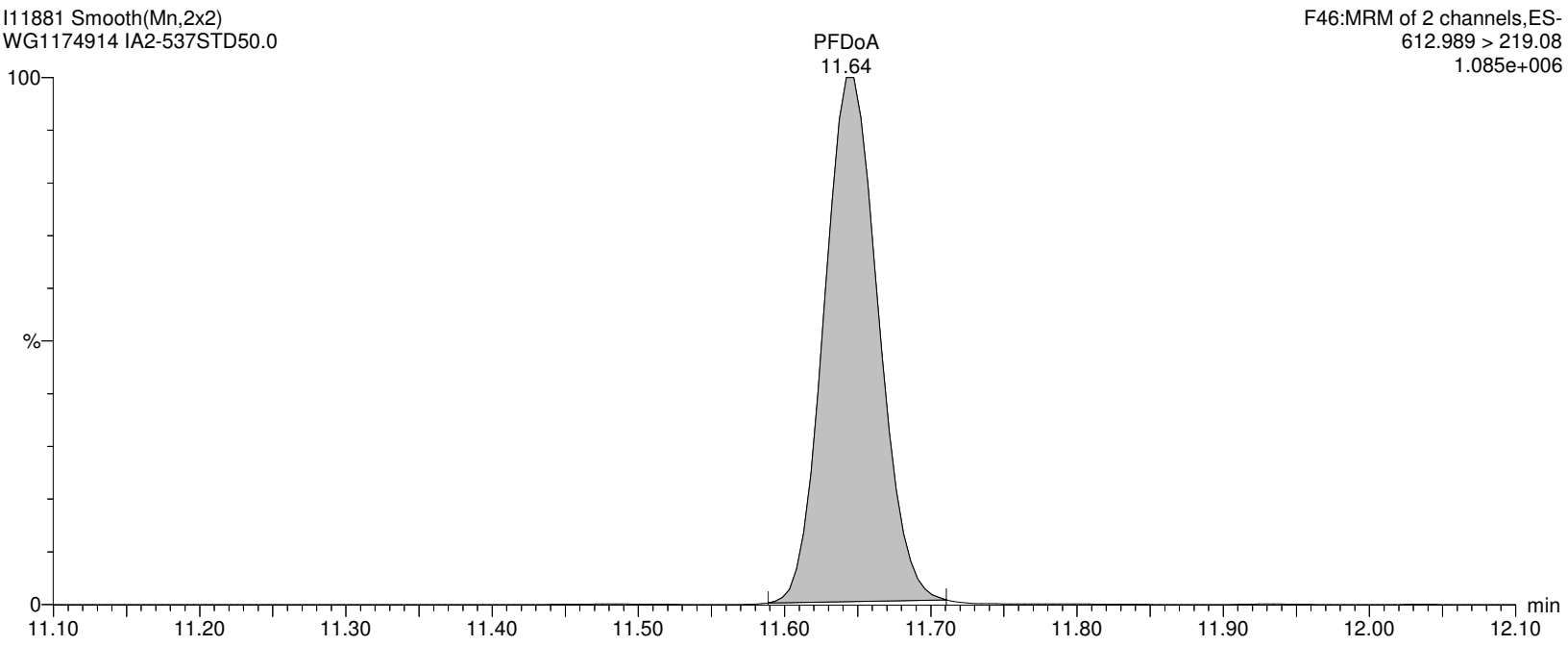

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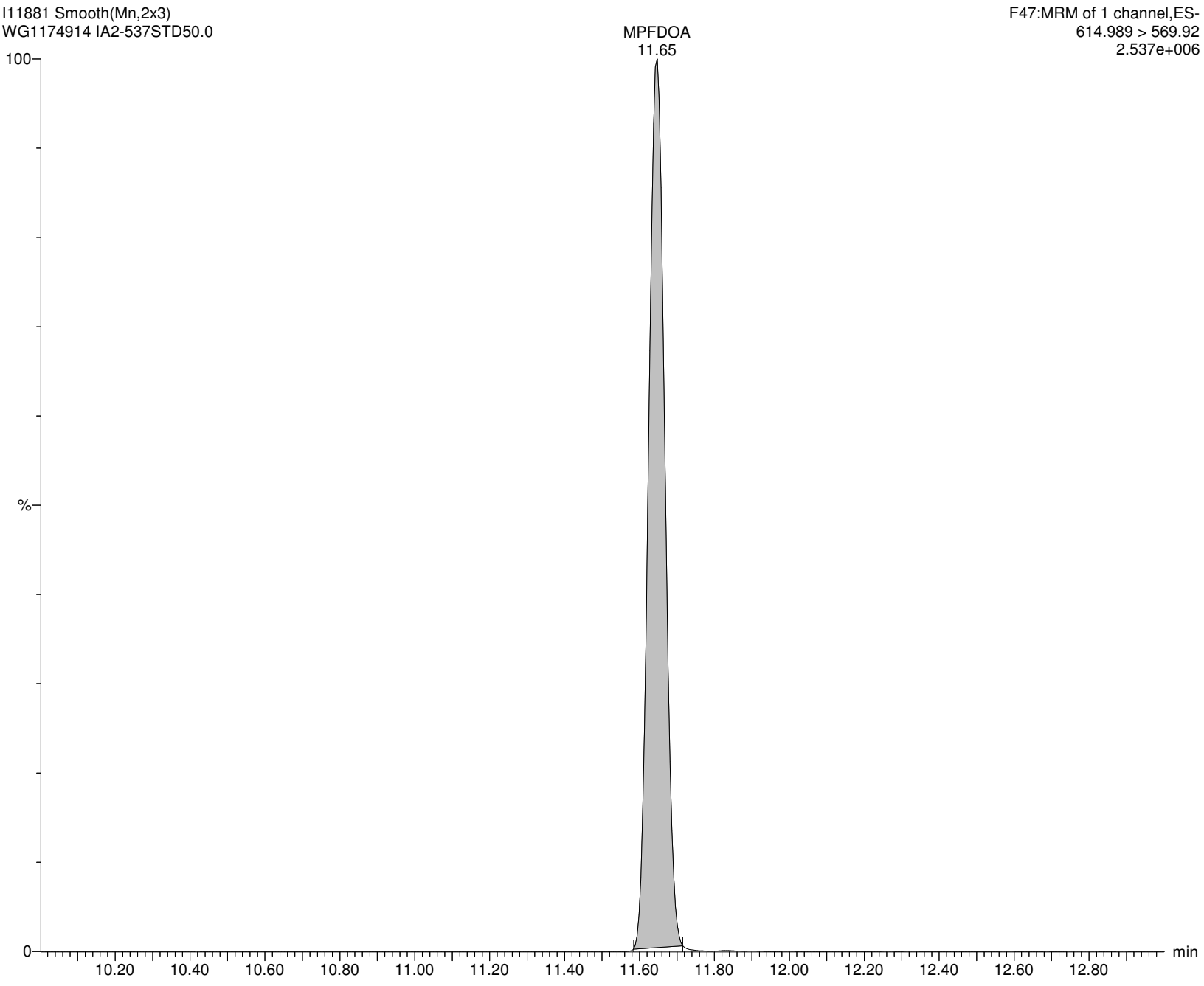

all concentration units in (ng/mL)

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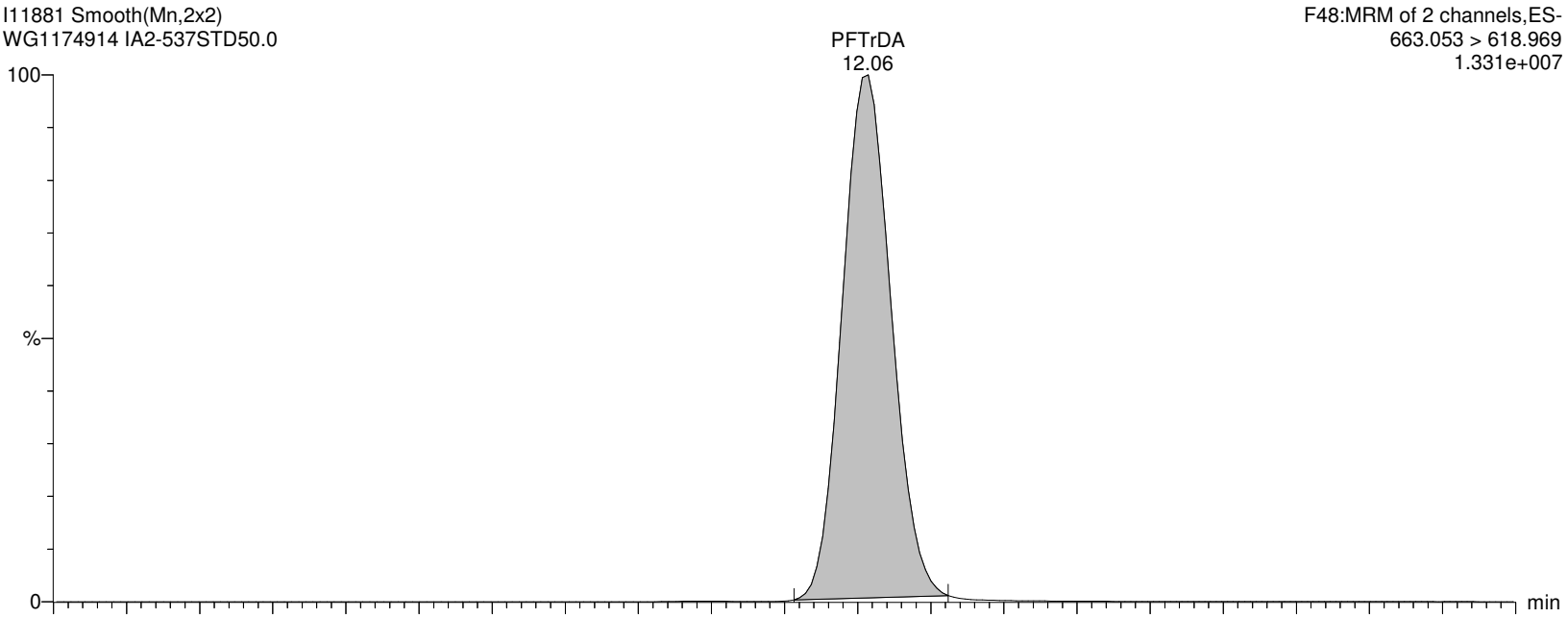

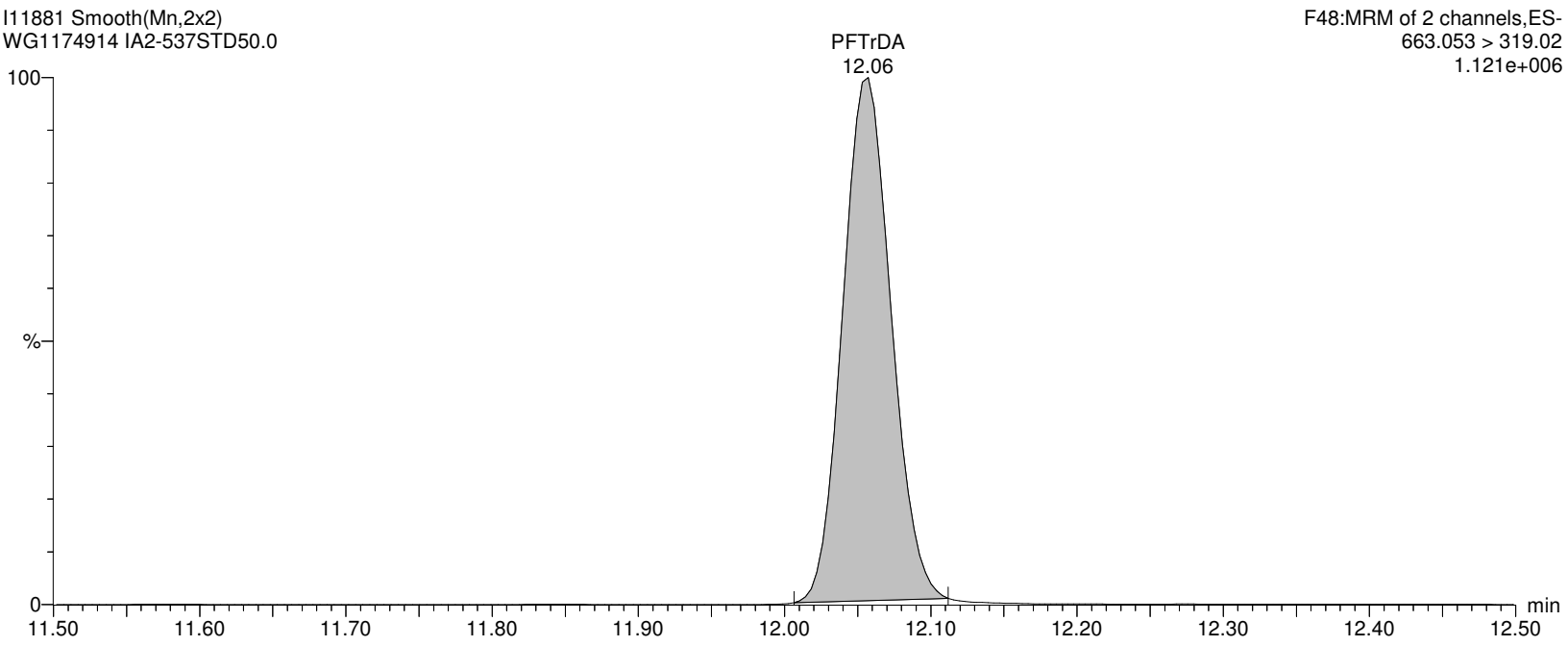

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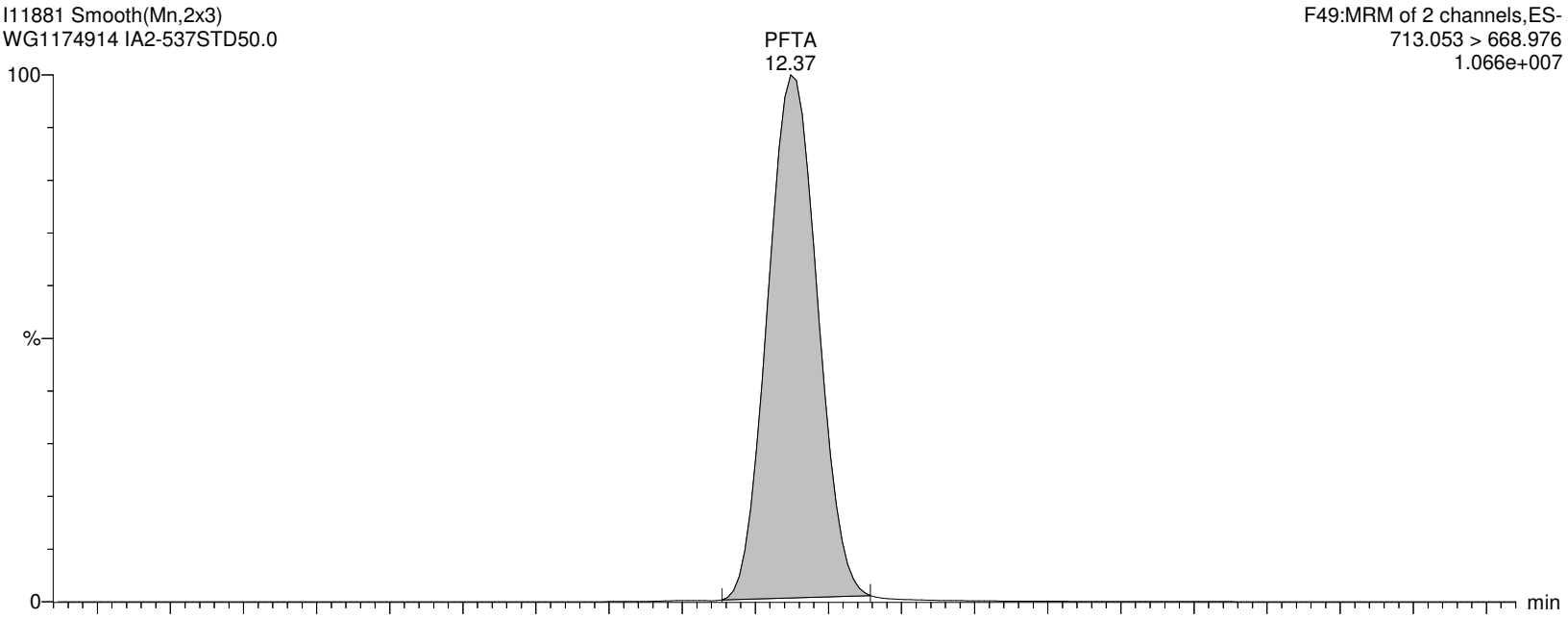

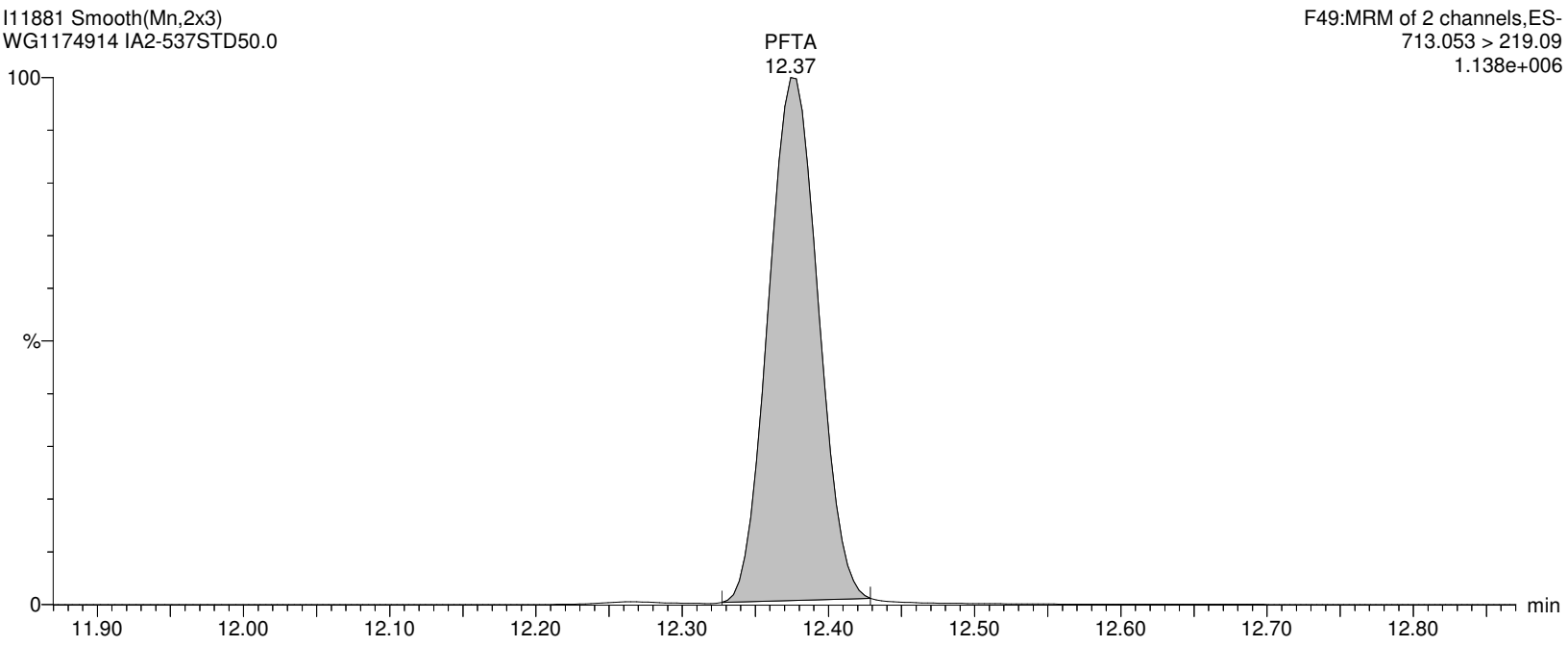

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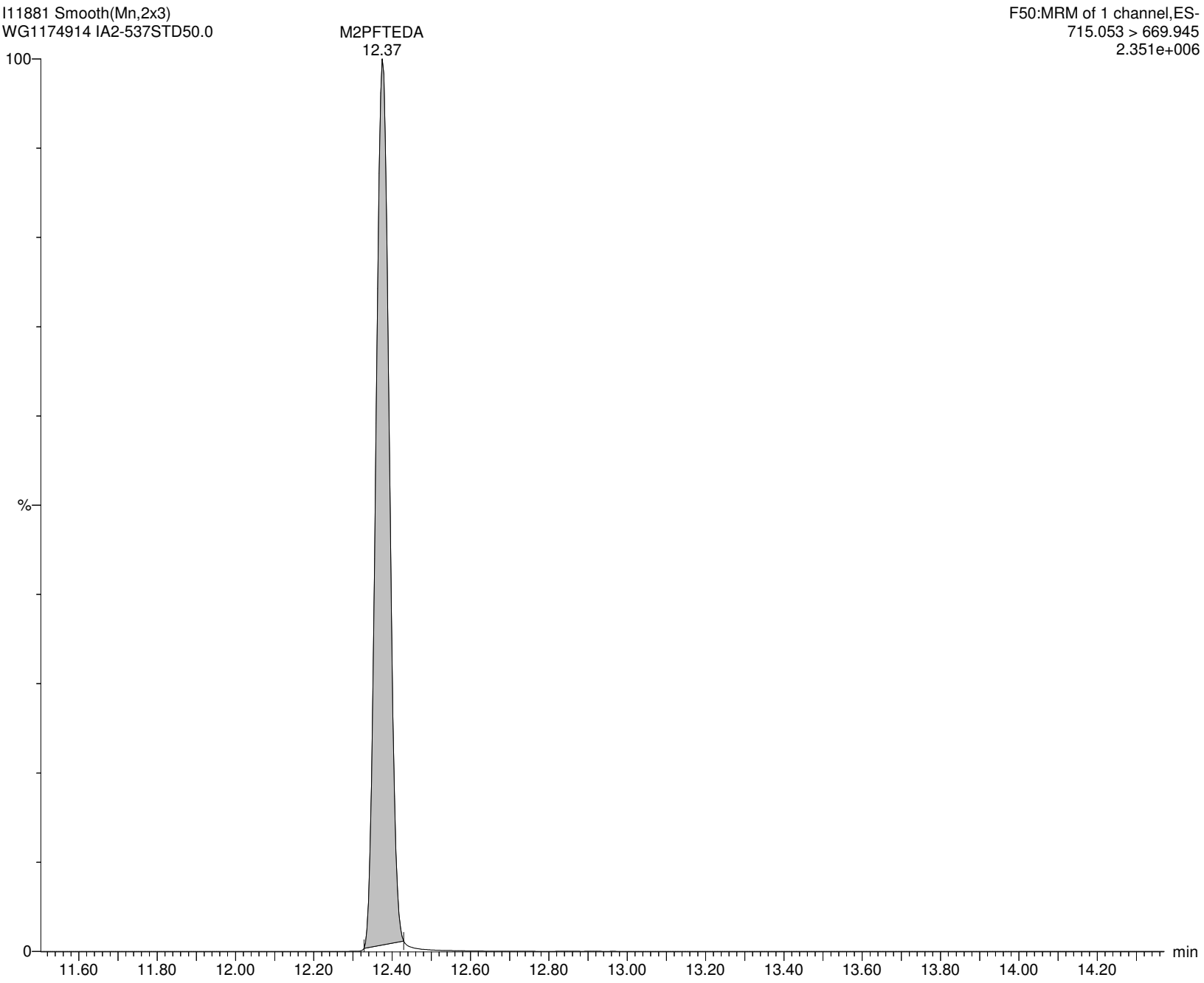

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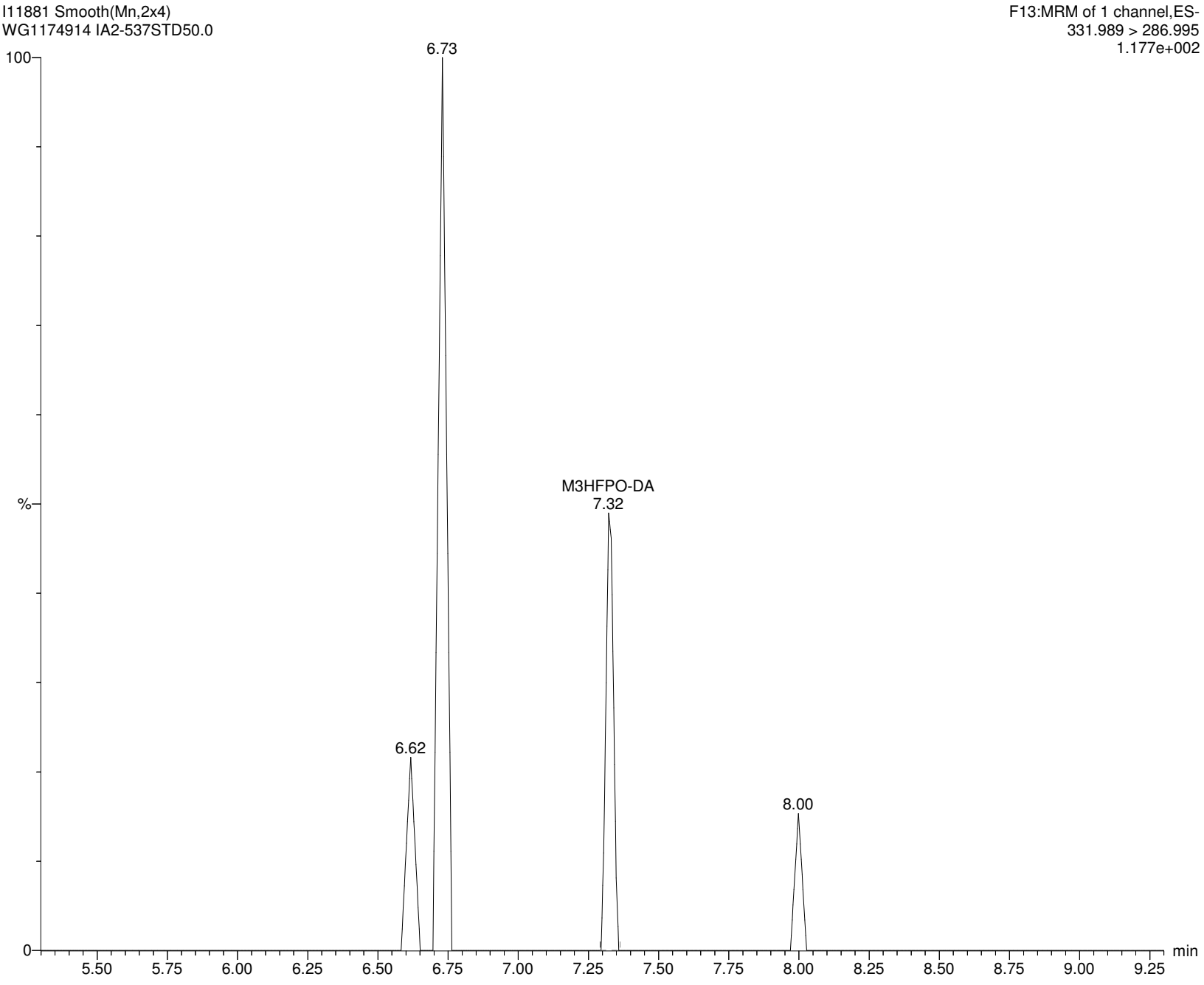

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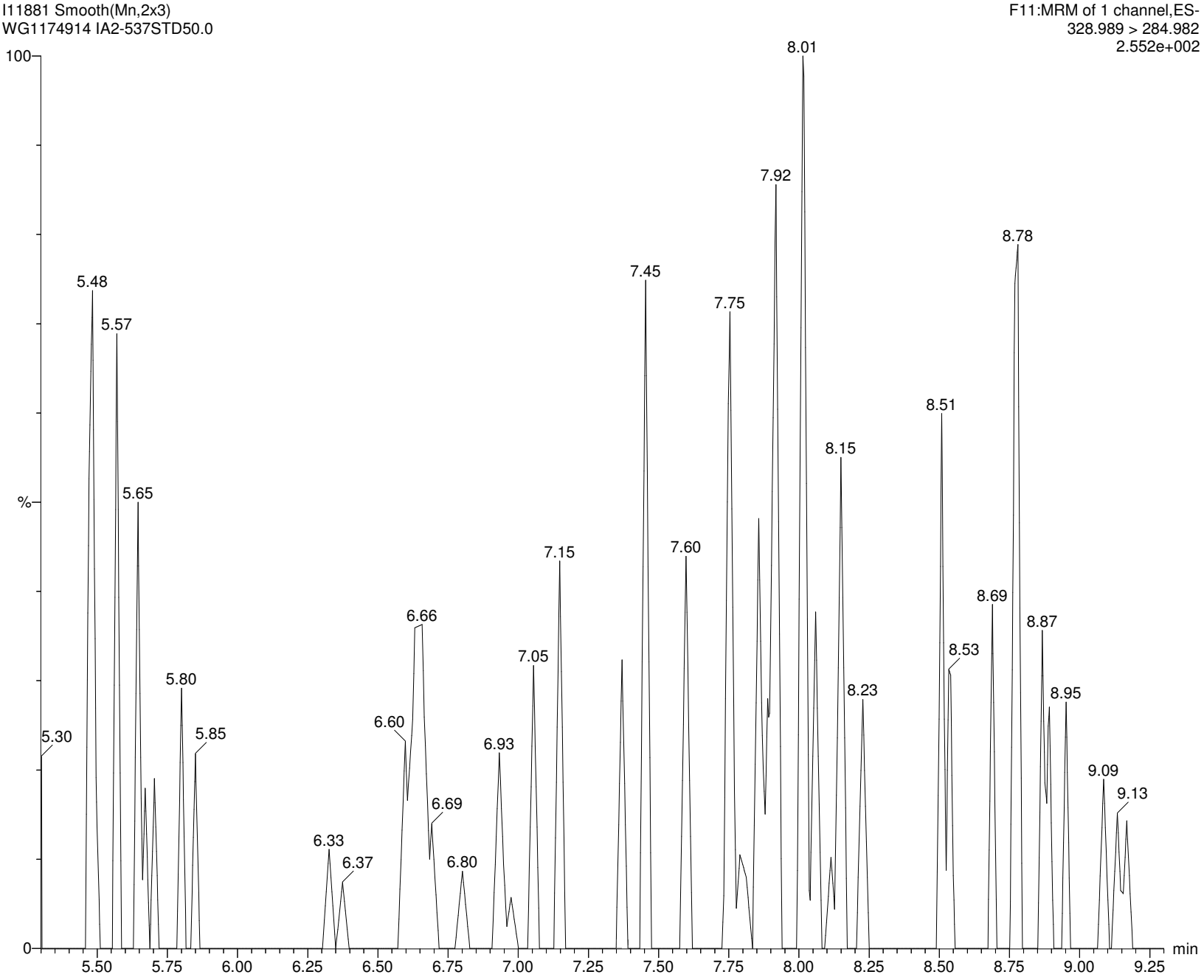

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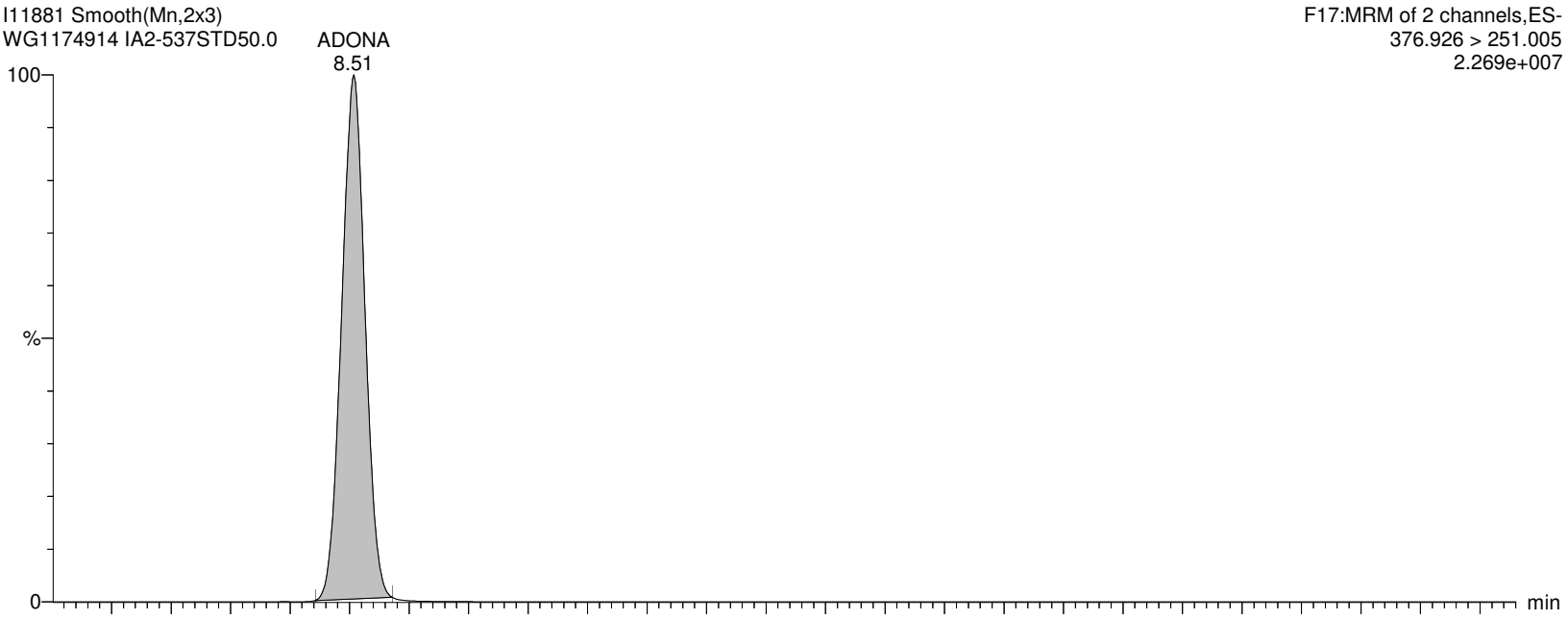
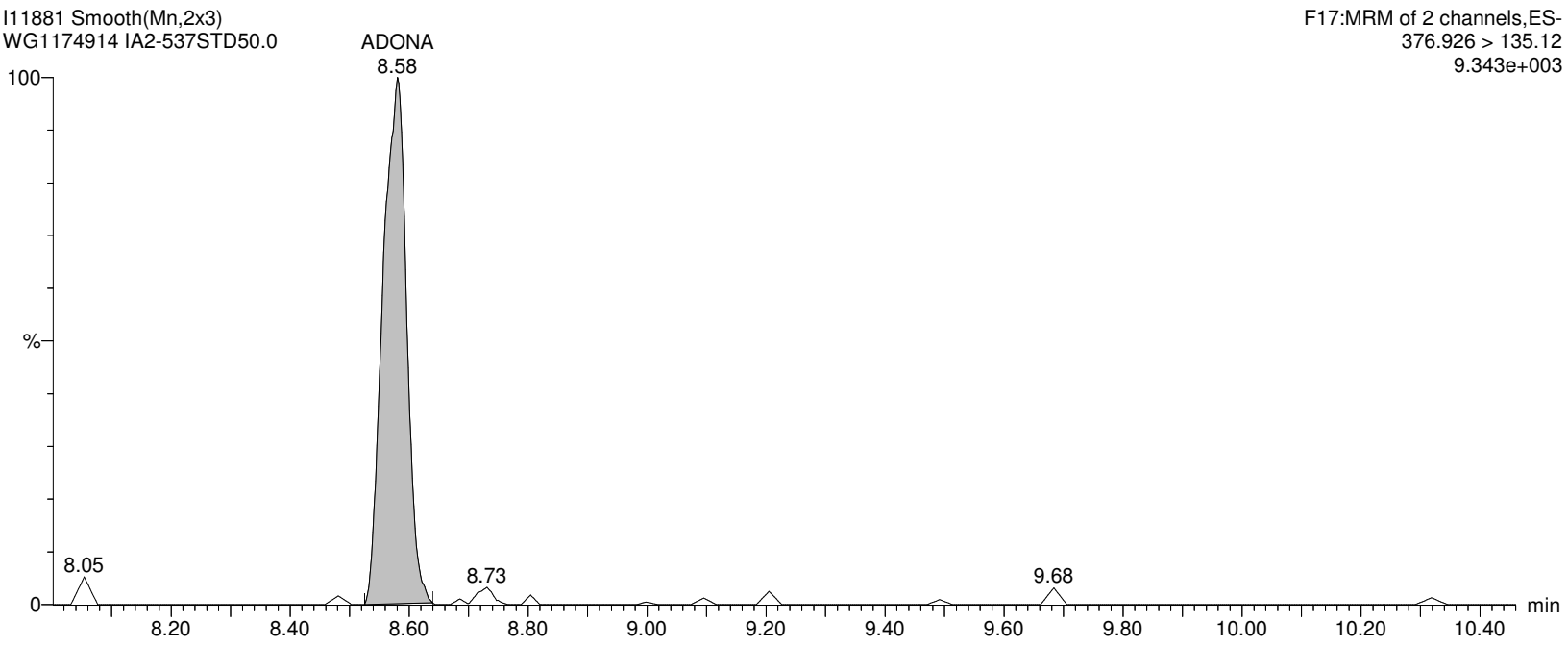
Name: I11881
ID: IA2-537STD50.0
Date: 01-Nov-2018
Time: 17:52:03
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

ADONA





all concentration units in (ng/mL)

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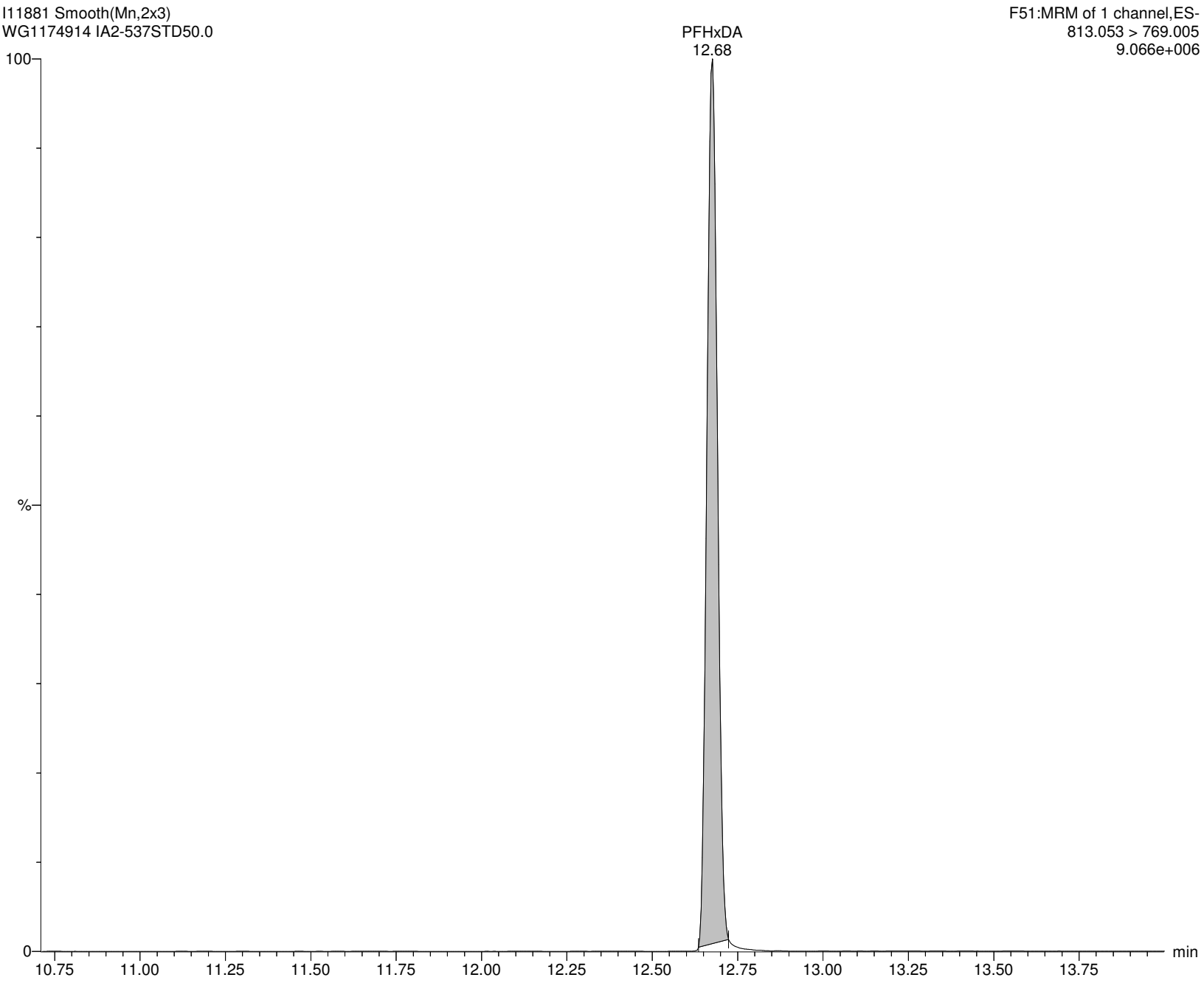

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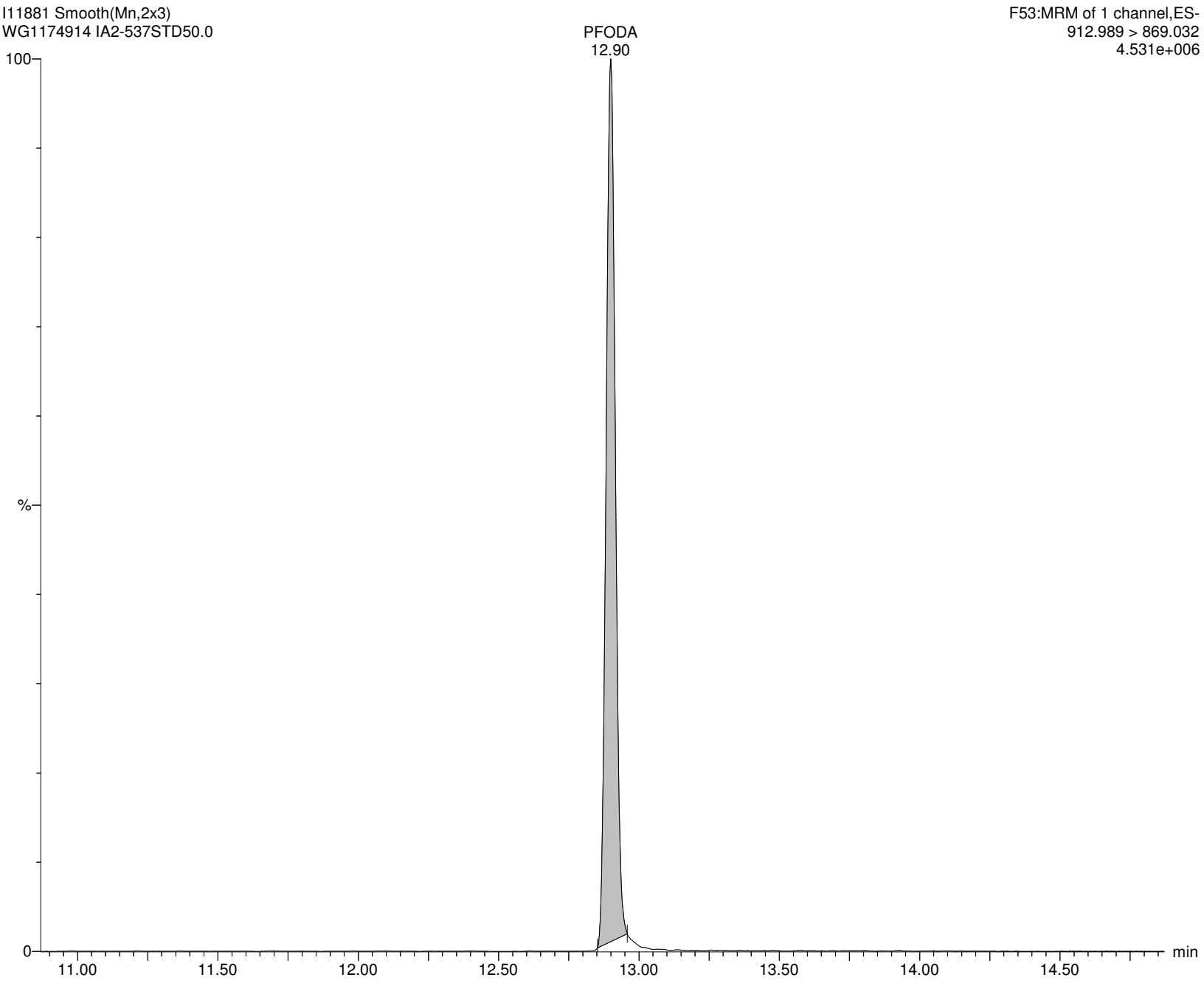

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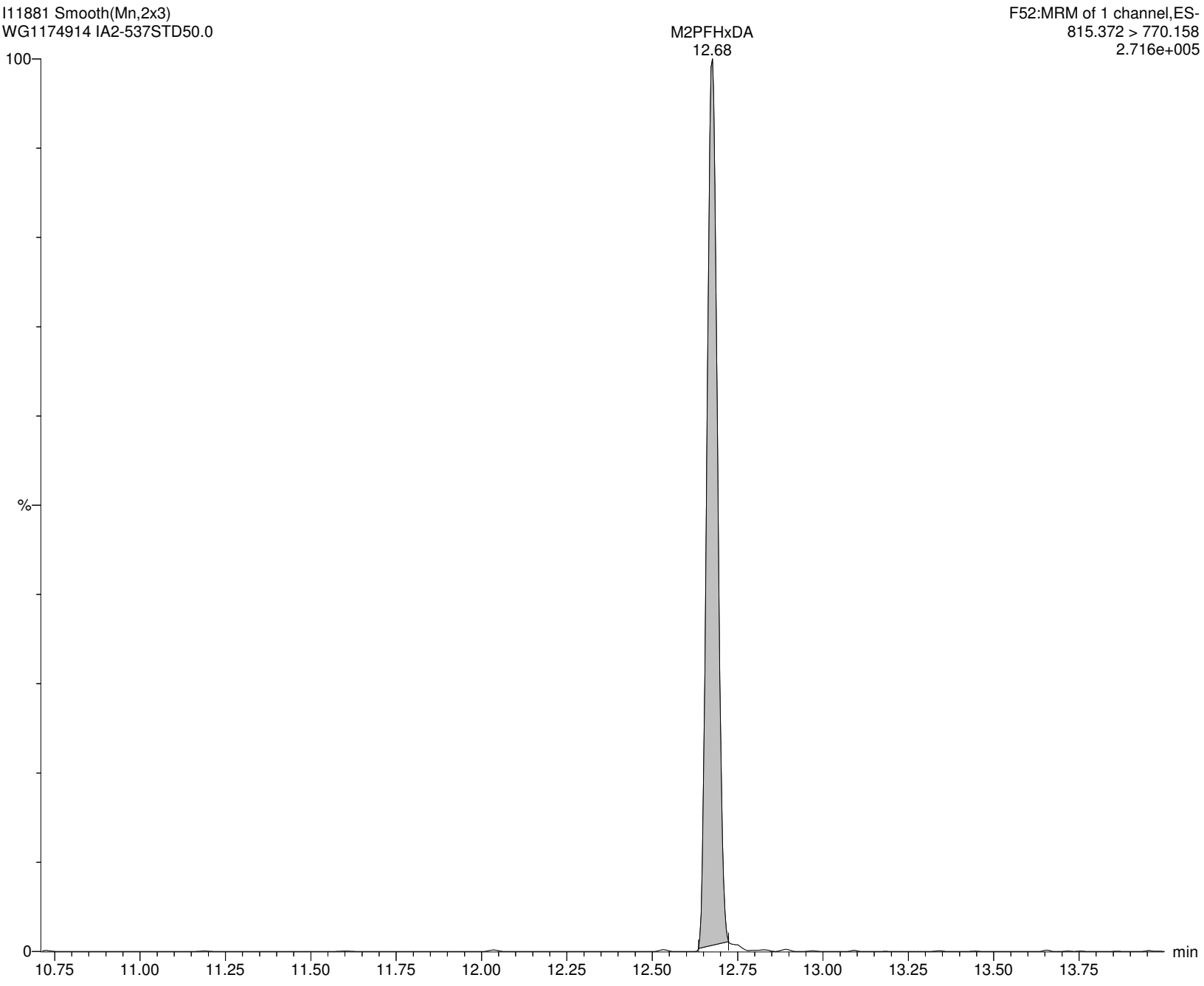

all concentration units in (ng/mL)

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Method: C:\MassLynx\Data\2018\181101_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 19:33:29
Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

ID: IA2-537STD125
Name: I11882
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	966697		129.140		na	103.3
2	M3PFBA	INT STD	2.12	215.926 > 172.122	88730		9.586		na	95.9
3	MPFBA	INT STD	2.12	216.926 > 172.137	85635		10.160		na	101.6
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	1329903		129.497		na	103.6
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	108967		10.018		na	100.2
6	PFBS	375-73-5	5.77	298.989 > 80.295	194064		115.936		na	104.8
7	M3PFBS	INT STD	5.77	301.989 > 80.254	18881		10.030		na	100.3
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	128803		115.803	1.96	YES	99.1
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	16526		14.152		na	141.5
10	PFHxA	307-24-4	7.04	312.989 > 269.028	1595913		128.178	19.03	NO	102.5
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	128297		10.249		na	102.5
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	210405		111.578	2.05	NO	95.0
13	PFHpA	375-85-9	8.33	362.926 > 319.014	1935903		130.750	5.25	NO	104.6
14	M4PFHpA	INT STD	8.32	366.926 > 321.979	150398		10.218		na	102.2
15	br-PFHxS	355-46-4	8.25	398.926 > 80.295	37125		20.931	1.97	NO	98.5
16	L-PFHxS	355-46-4	8.49	398.926 > 80.295	146330		95.213	1.37	NO	102.9
17	PFHxS	355-46-4		398.926 > 80.295	183454		116.145		na	
18	M3PFHxS	INT STD	8.49	401.926 > 80.317	10899		10.424		na	104.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	1821191		130.931	9.00	NO	104.7
21	M2PFOA	INT STD	9.28	415.032 > 369.968	173754		9.202		na	92.0
22	PFOA	335-67-1		412.989 > 368.9	1821191		130.931		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	142570		10.175		na	101.7
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	104195		119.813	1.02	NO	100.9
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	13171		13.589		na	135.9
26	PFHpS	375-92-8	9.37	448.926 > 80.257	110710		125.542	0.98	YES	105.7
27	PFNA	375-95-1	10.03	462.989 > 418.931	1576931		131.681	4.33	NO	105.3
28	M9PFNA	INT STD	10.03	472.053 > 426.947	143381		10.259		na	102.6
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	51907		24.865	3.82	YES	99.5
30	L-PFOS	1763-23-1	10.08	498.989 > 80.294	141697		95.250	1.71	YES	104.4
31	PFOS	1763-23-1		498.989 > 80.294	193604		120.115		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	15101		9.322		na	93.2
33	M8PFOS	INT STD	10.08	507.053 > 80.294	14243		10.114		na	101.1
34	PFDA	335-76-2	10.65	513.053 > 468.906	1386972		131.904	6.09	NO	105.5
35	M2PFDA	INT STD	10.65	515.053 > 469.934	131503		8.846		na	88.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	118539		9.984		na	99.8
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	69752		119.109		na	99.3
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	7431		13.056		na	130.6
39	PFNS	68259-12-1	10.68	548.989 > 80.249	148486		133.544	1.32	NO	111.3

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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ID: IA2-537STD125
Name: I11882
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	13983		10.924		na	109.2
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	190663		135.562		na	108.4
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	1213585		128.265	7.48	NO	102.6
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	95228		9.582		na	95.8
44	PFDS	335-77-3	11.20	598.926 > 80.314	111195		132.604	1.11	NO	109.9
45	FOSA	754-91-6	11.14	497.989 > 78.245	575297		130.463		na	104.4
46	M8FOSA	INT STD	11.14	506.053 > 78.286	45082		10.642		na	106.4
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	12740		10.318		na	103.2
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	173721		133.364	2.63	YES	106.7
49	PFDoA	307-55-1	11.65	612.989 > 568.967	1413035		129.795	12.87	NO	103.8
50	MPFDOA	INT STD	11.65	614.989 > 569.92	116747		10.455		na	104.6
51	PFTrDA	72629-94-8	12.06	663.053 > 618.969	1219444		133.202	11.76	NO	106.6
52	PFTA	376-06-7	12.38	713.053 > 668.976	962468		135.822	9.32	NO	108.7
53	M2PFTEDA	INT STD	12.38	715.053 > 669.945	84396		10.204		na	102.0
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6	7.46	328.989 > 284.982	156112		ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	2034128		107.834	2169.73	NO	91.2
57	PFHxDA		12.68	813.053 > 769.005	610156		131.993		na	105.6
58	PFODA		12.89	912.989 > 869.032	392843		144.027		na	115.2
59	M2PFHxDA		12.68	815.372 > 770.158	7991		9.289		na	92.9

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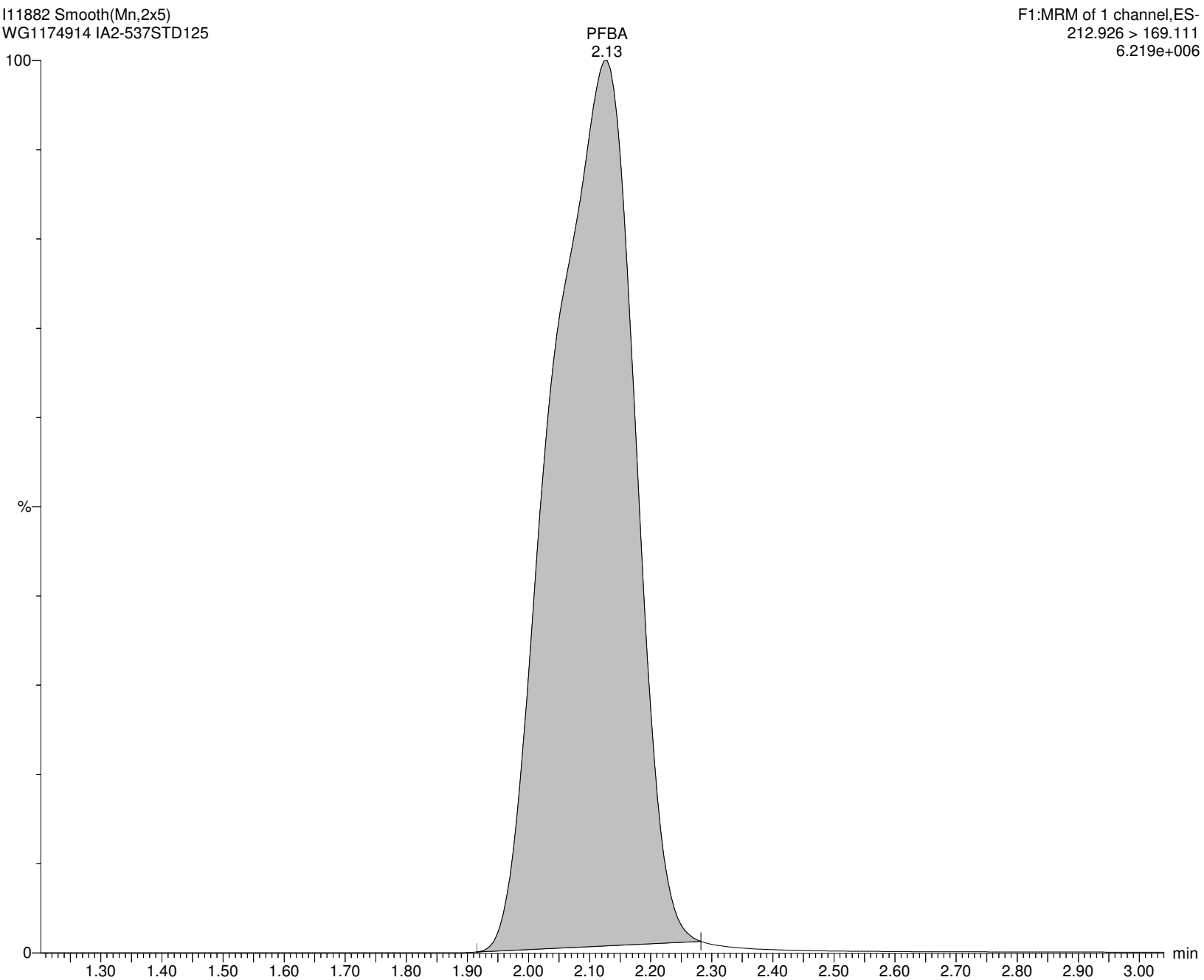

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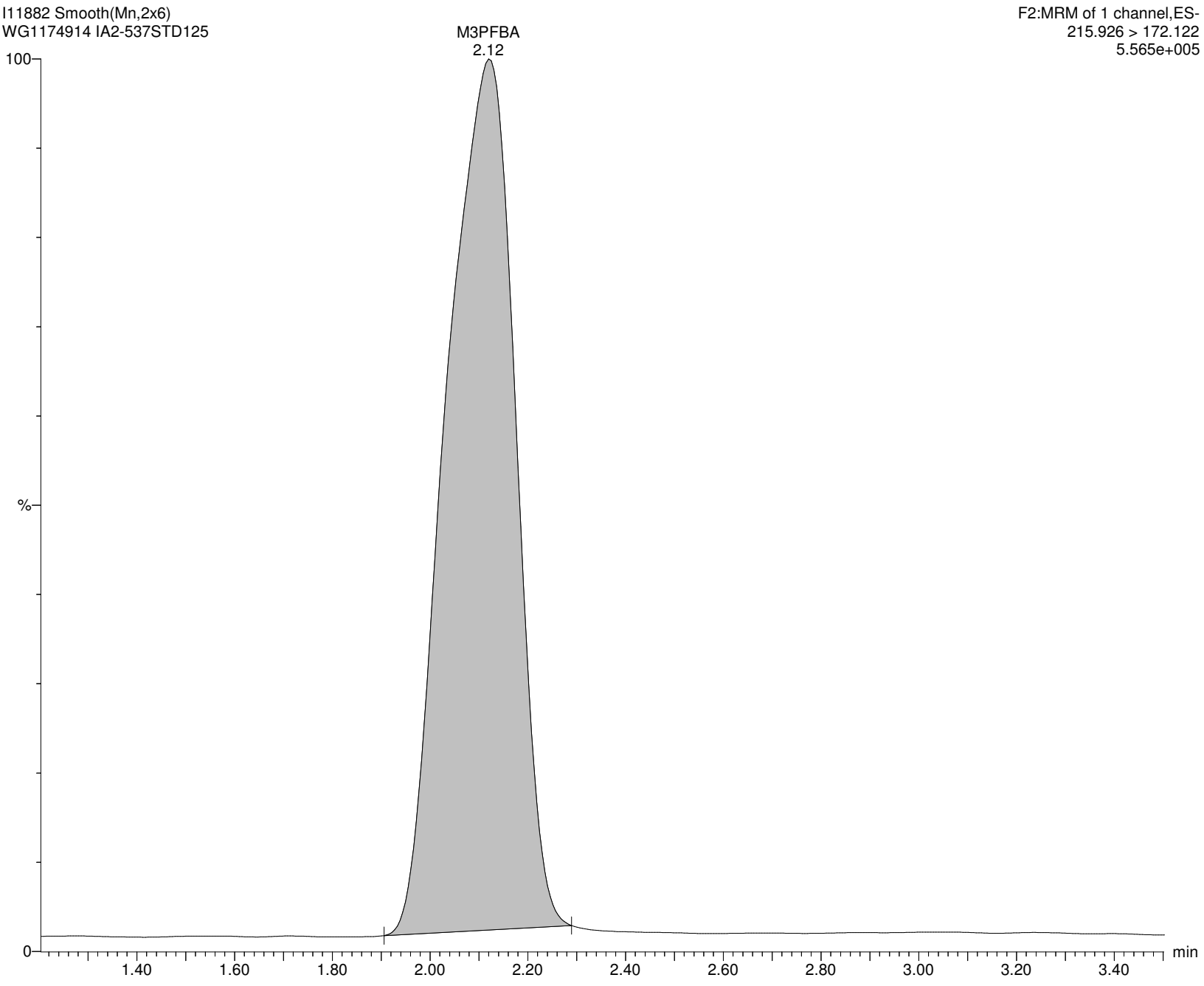

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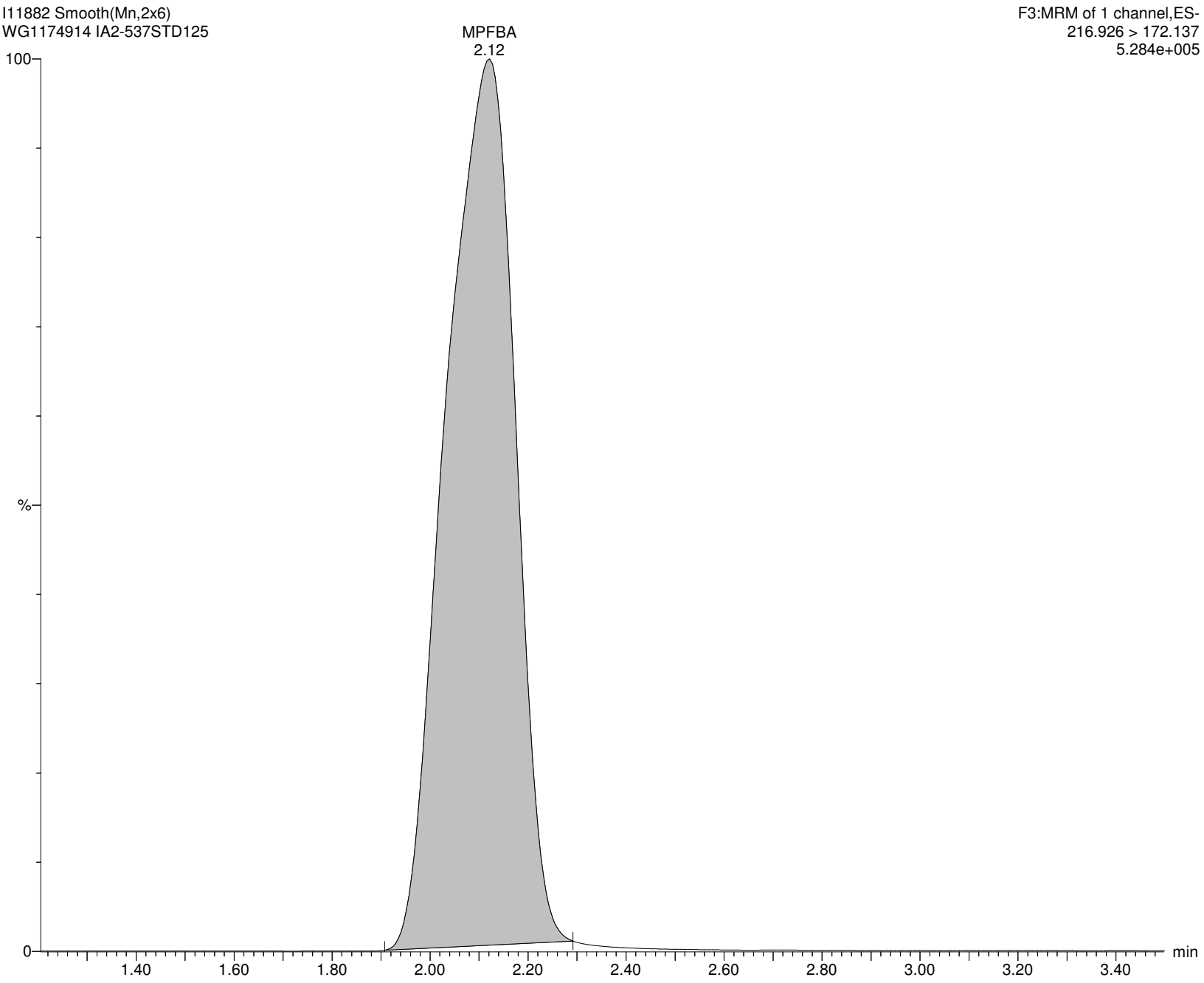

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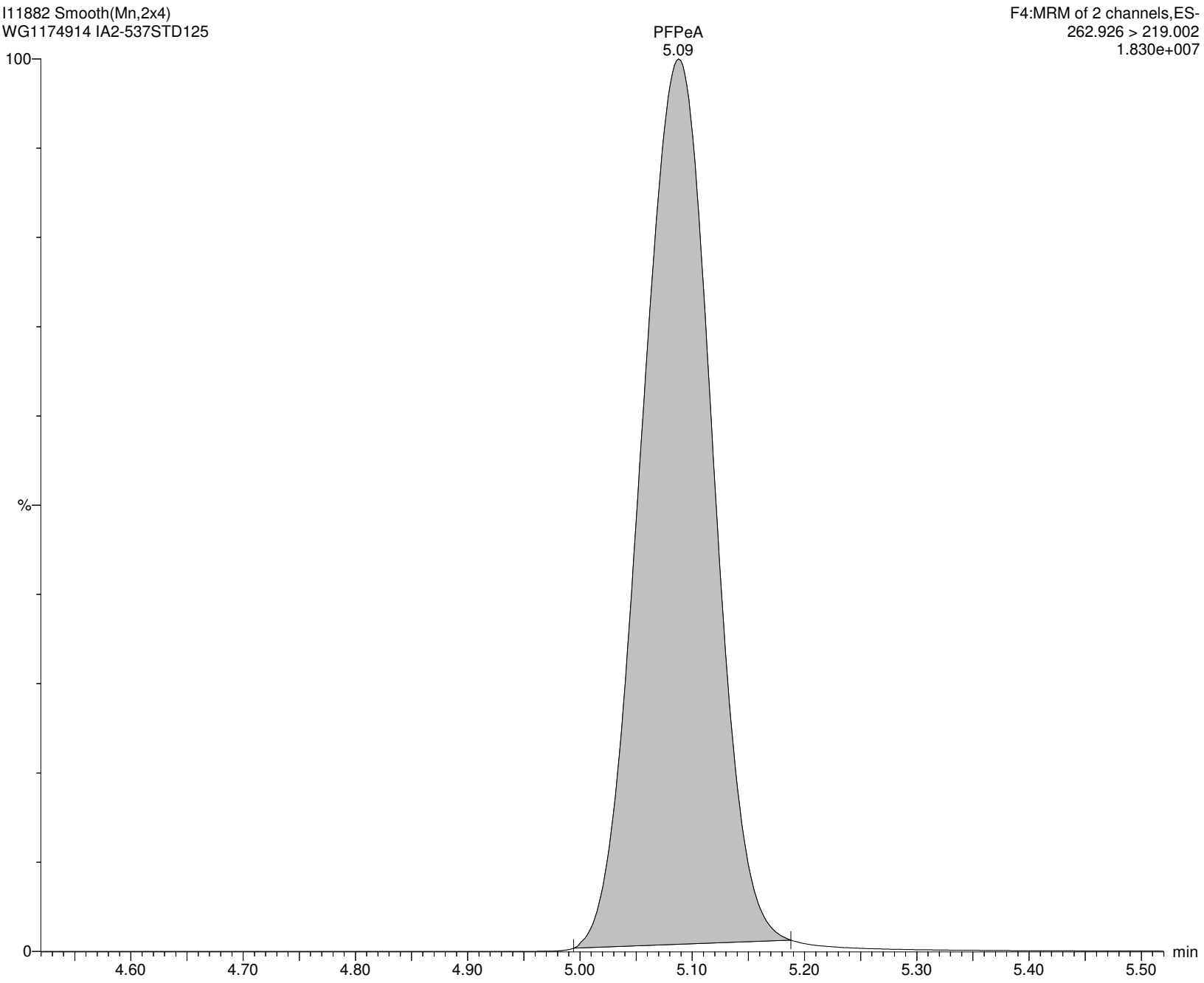

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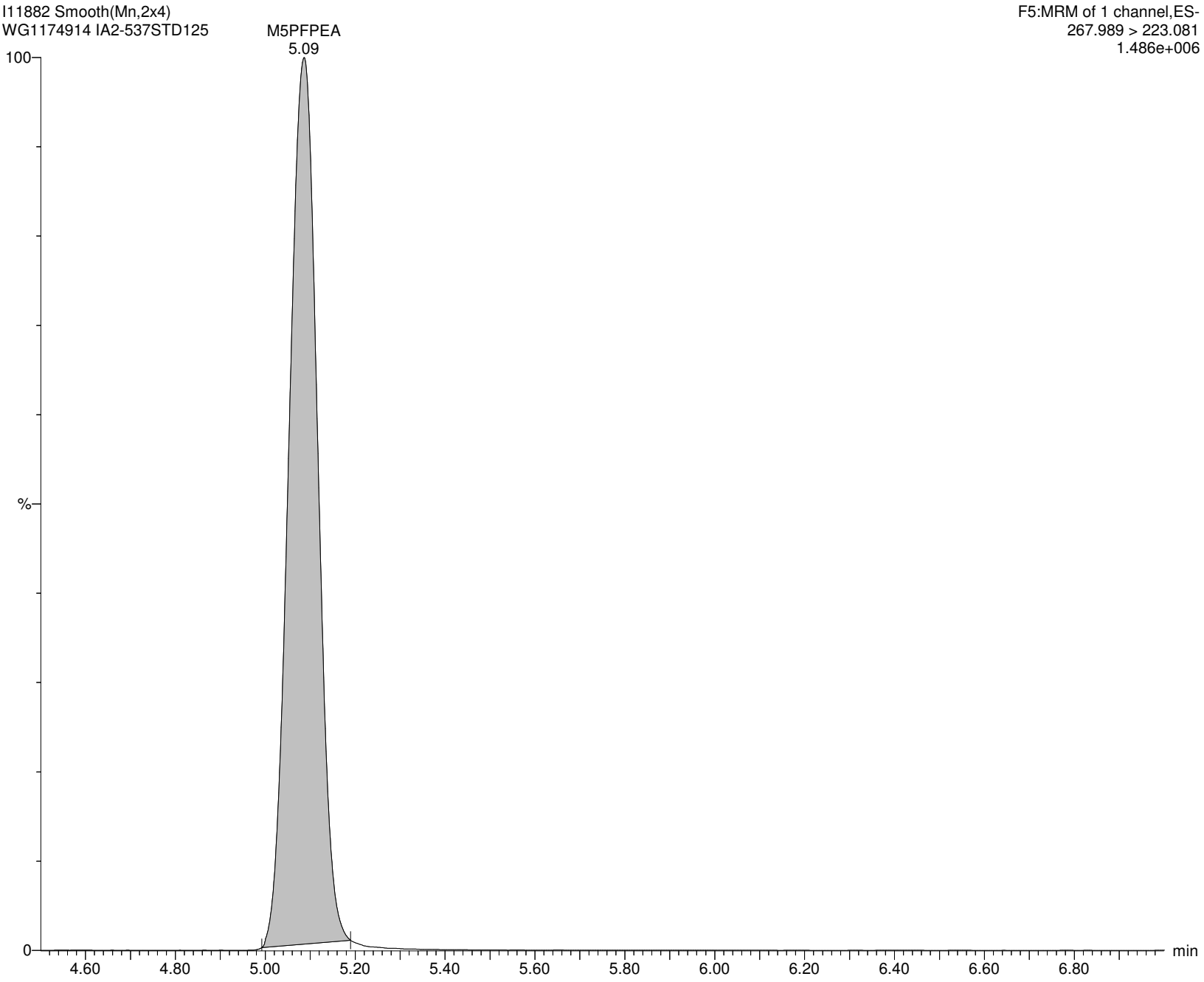

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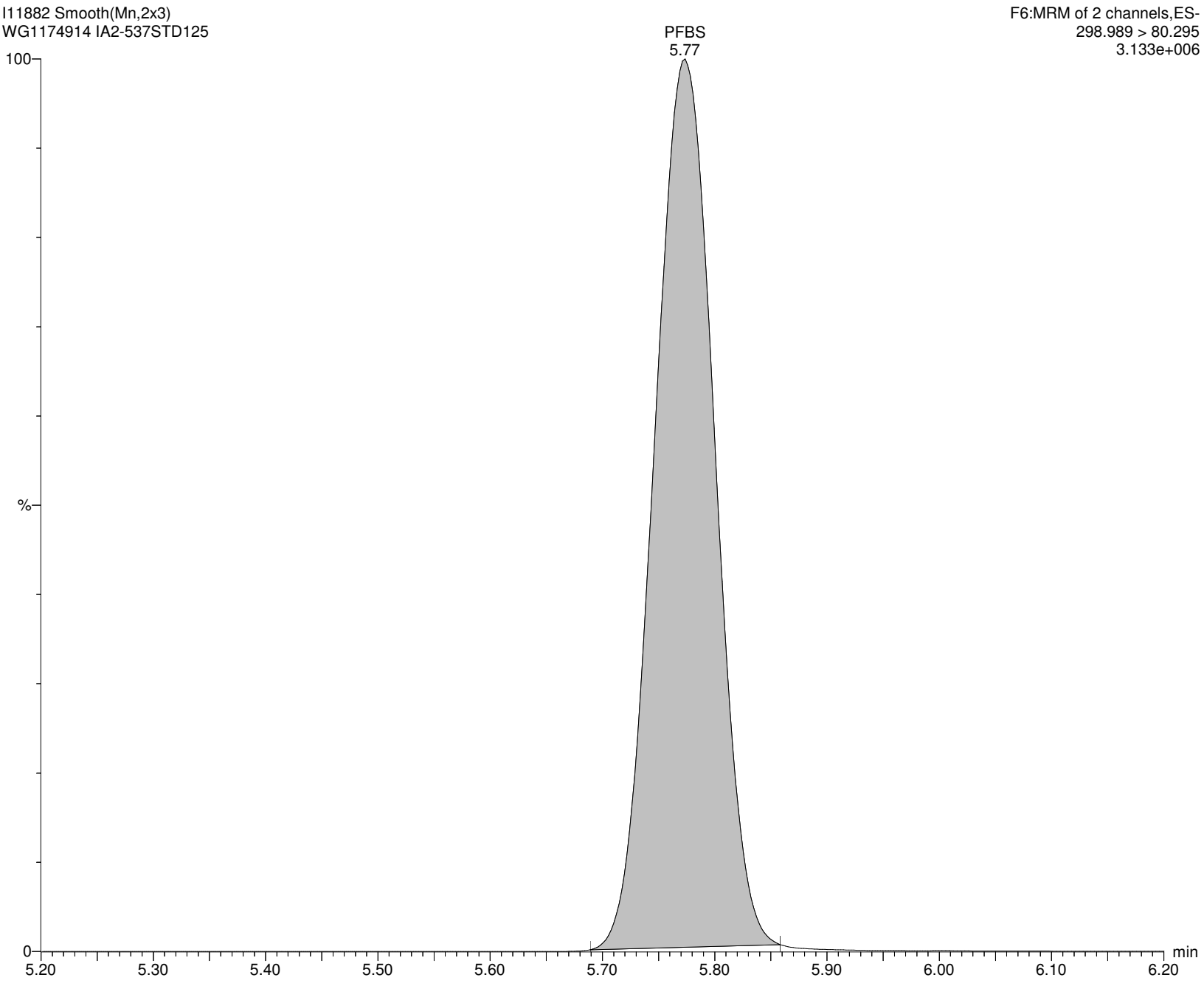

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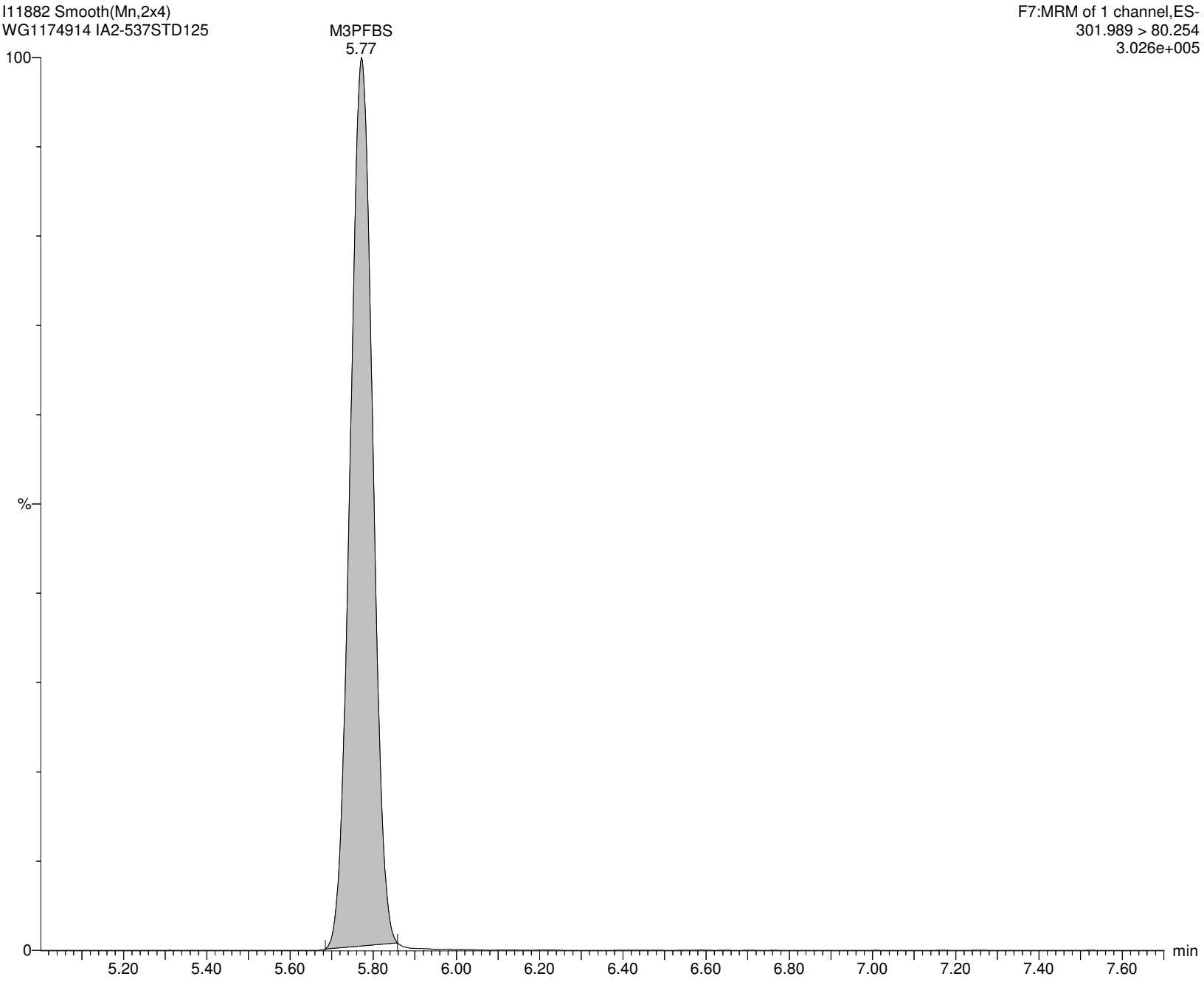
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:24 Eastern Daylight Time

Name: I11882
ID: IA2-537STD125
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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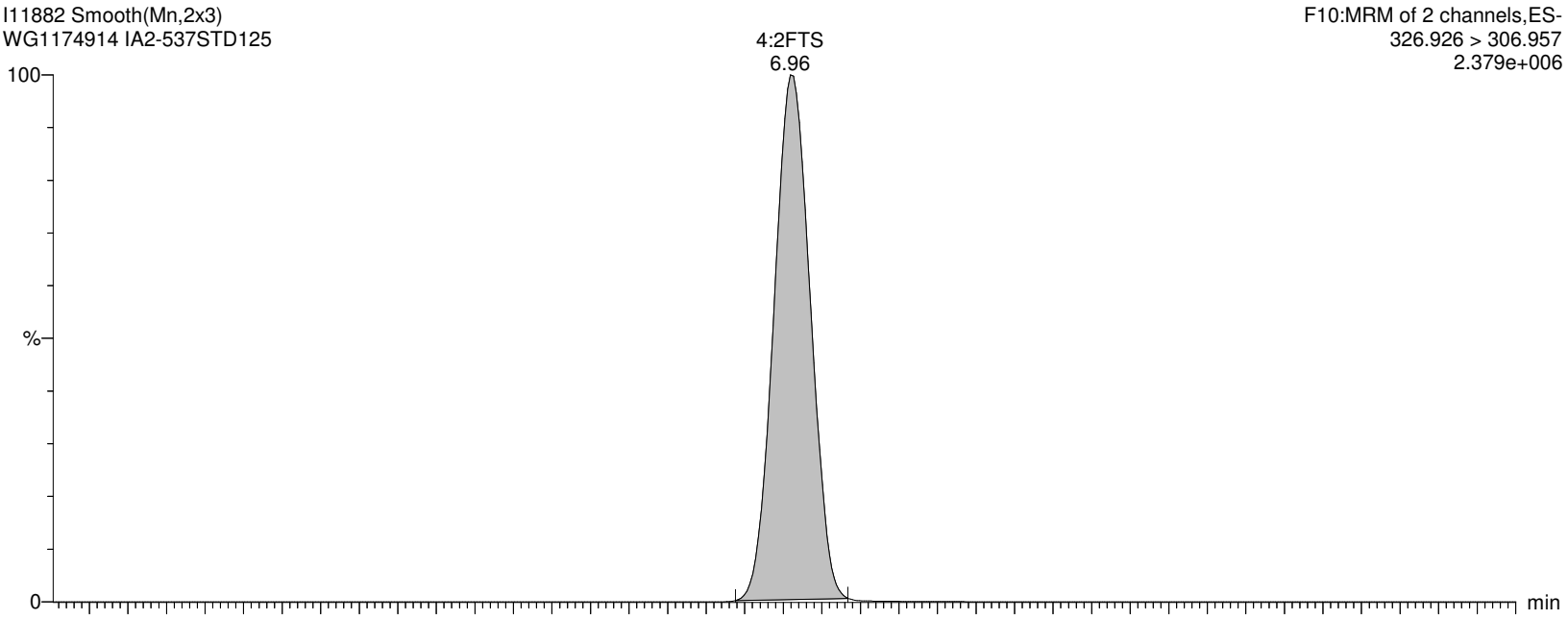

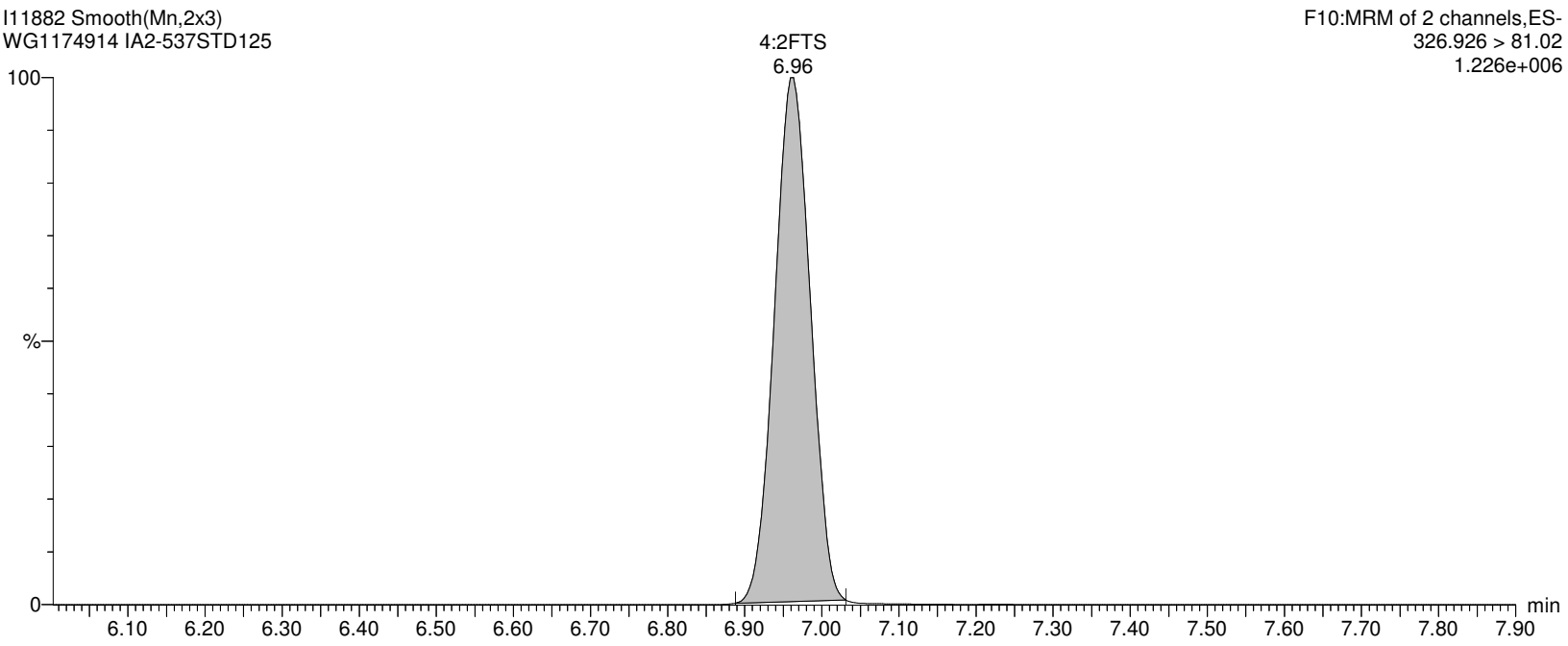

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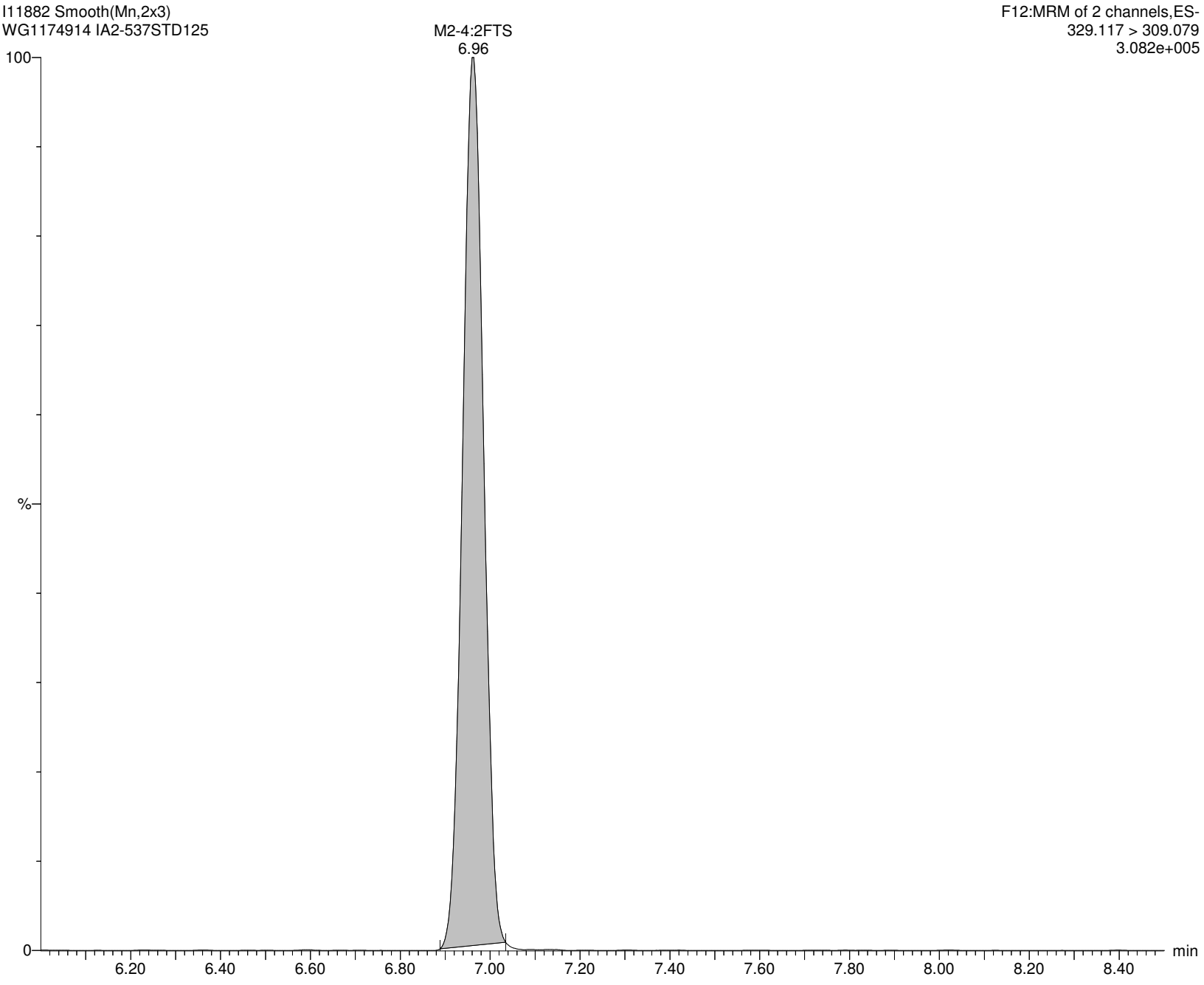

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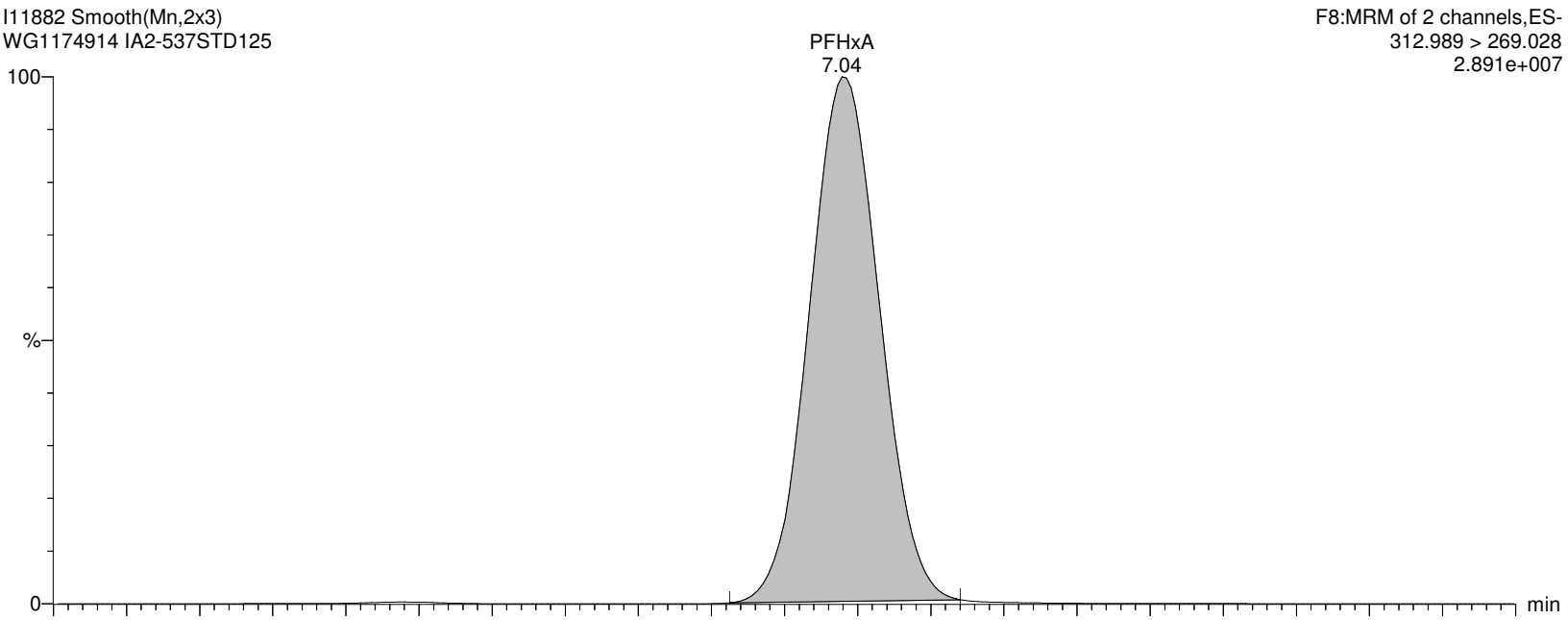

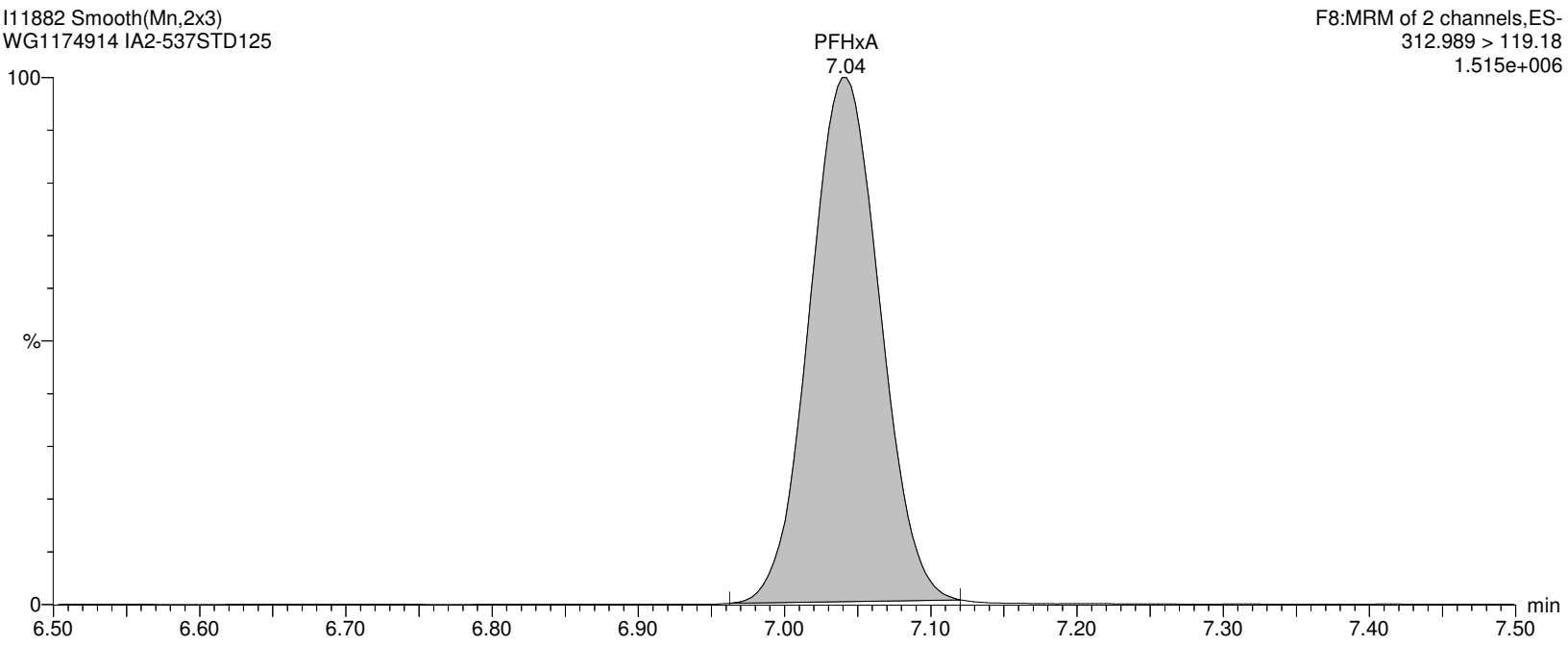

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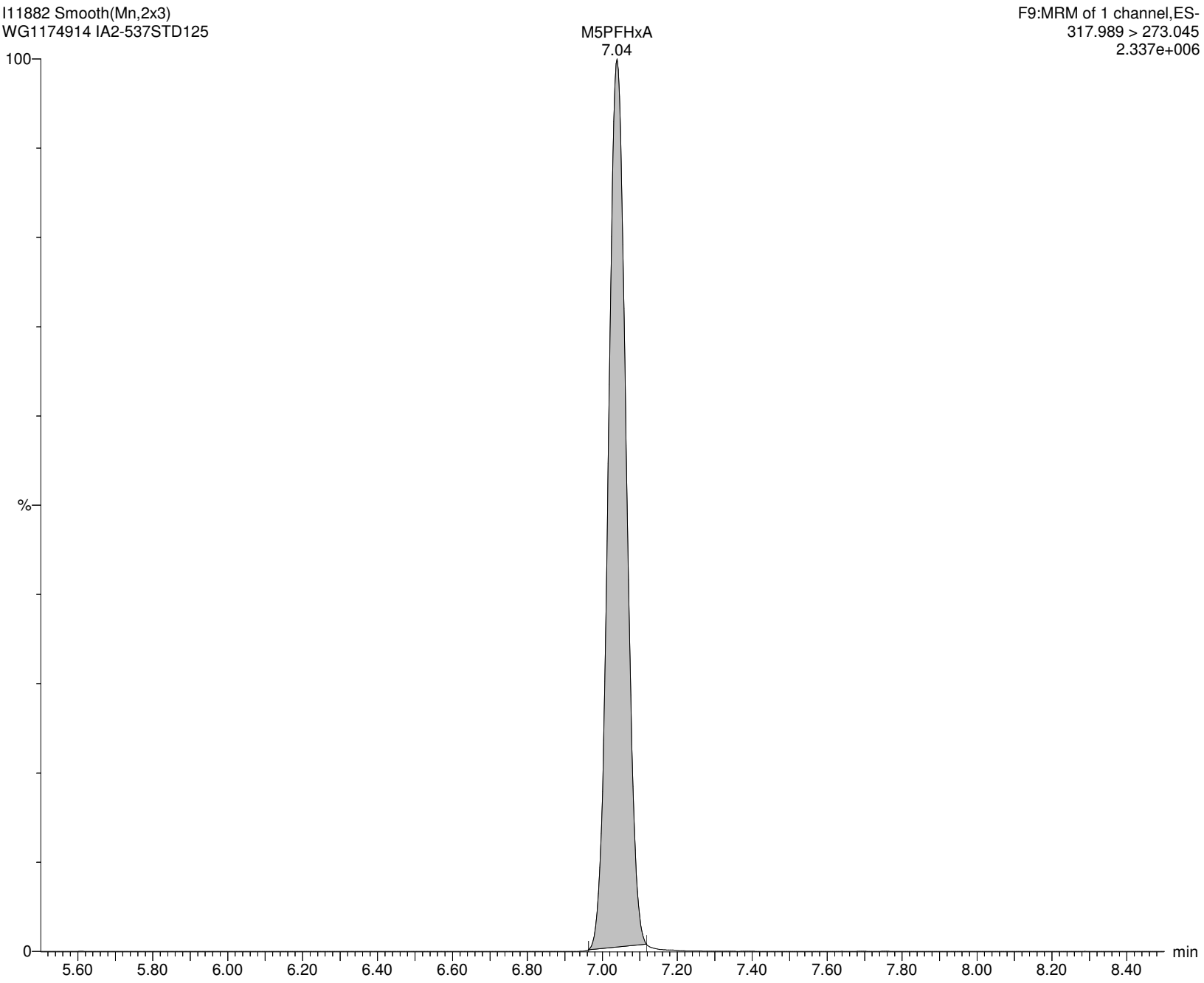

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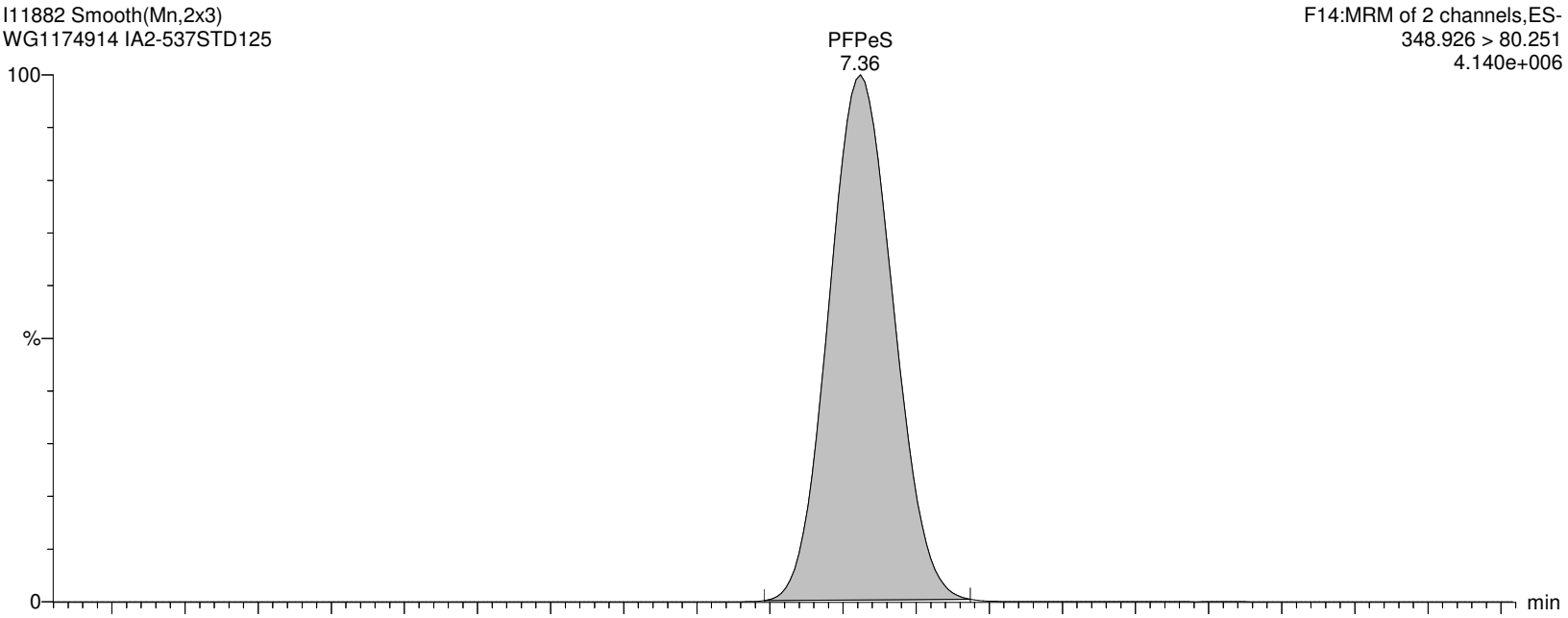

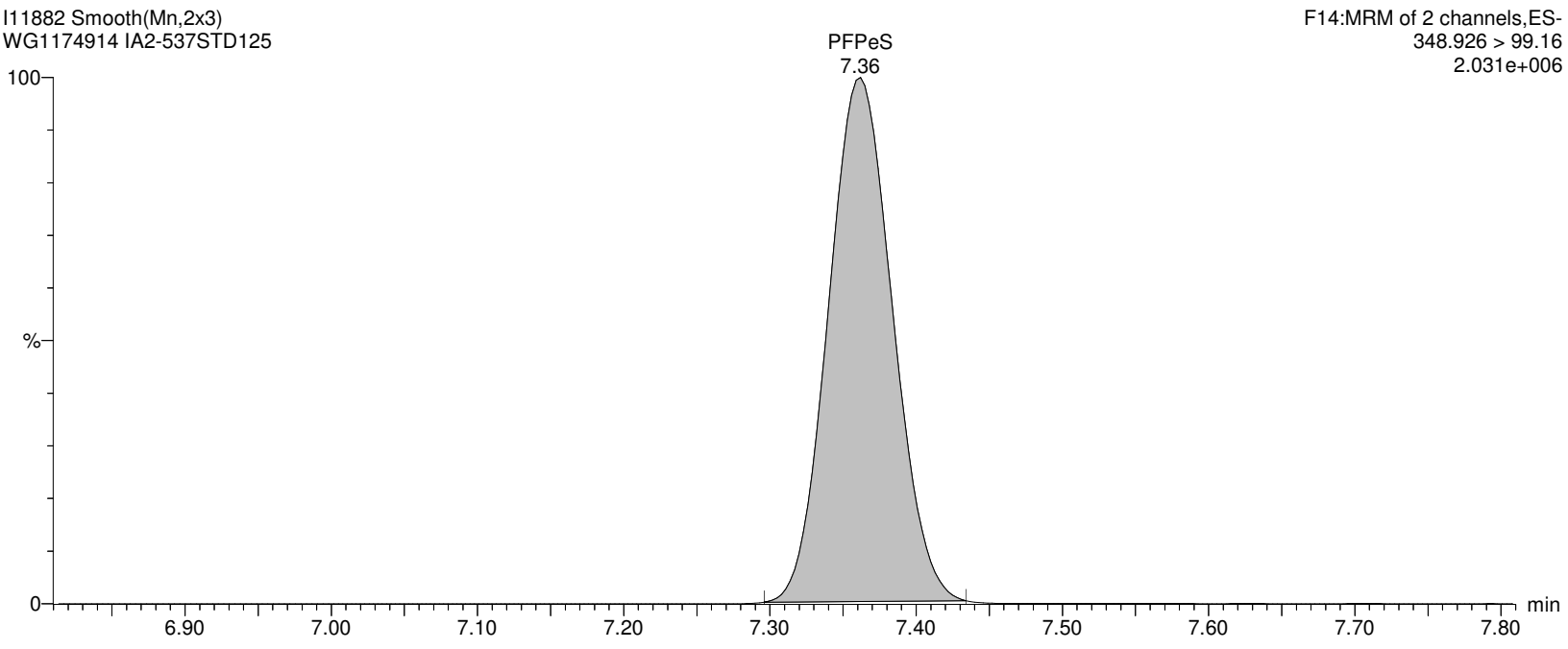

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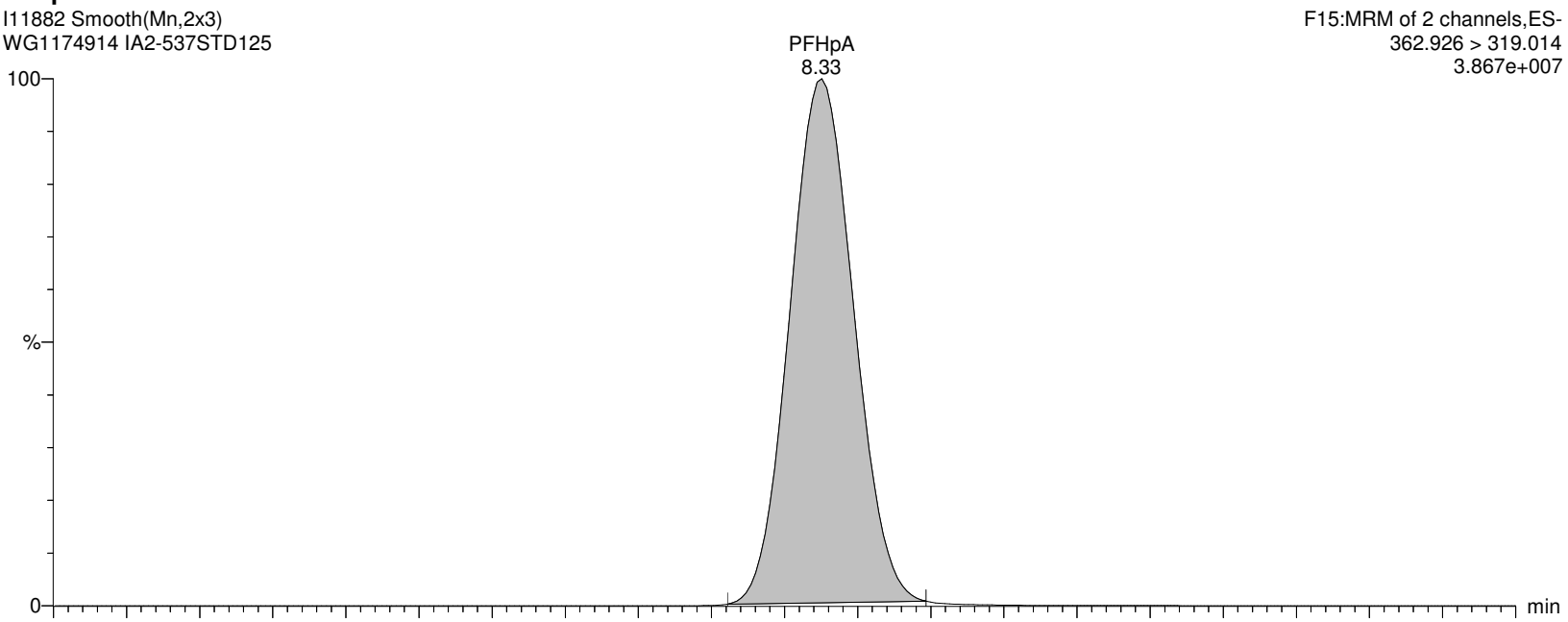

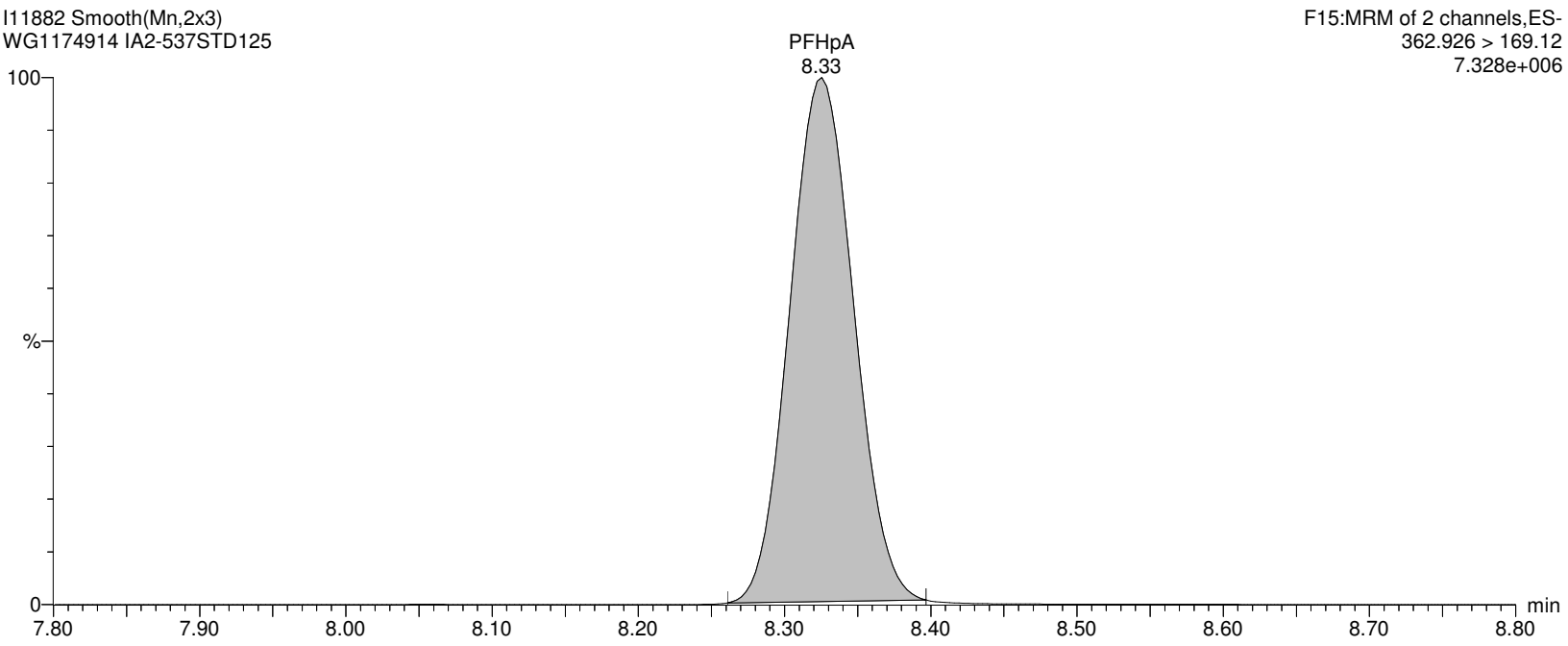

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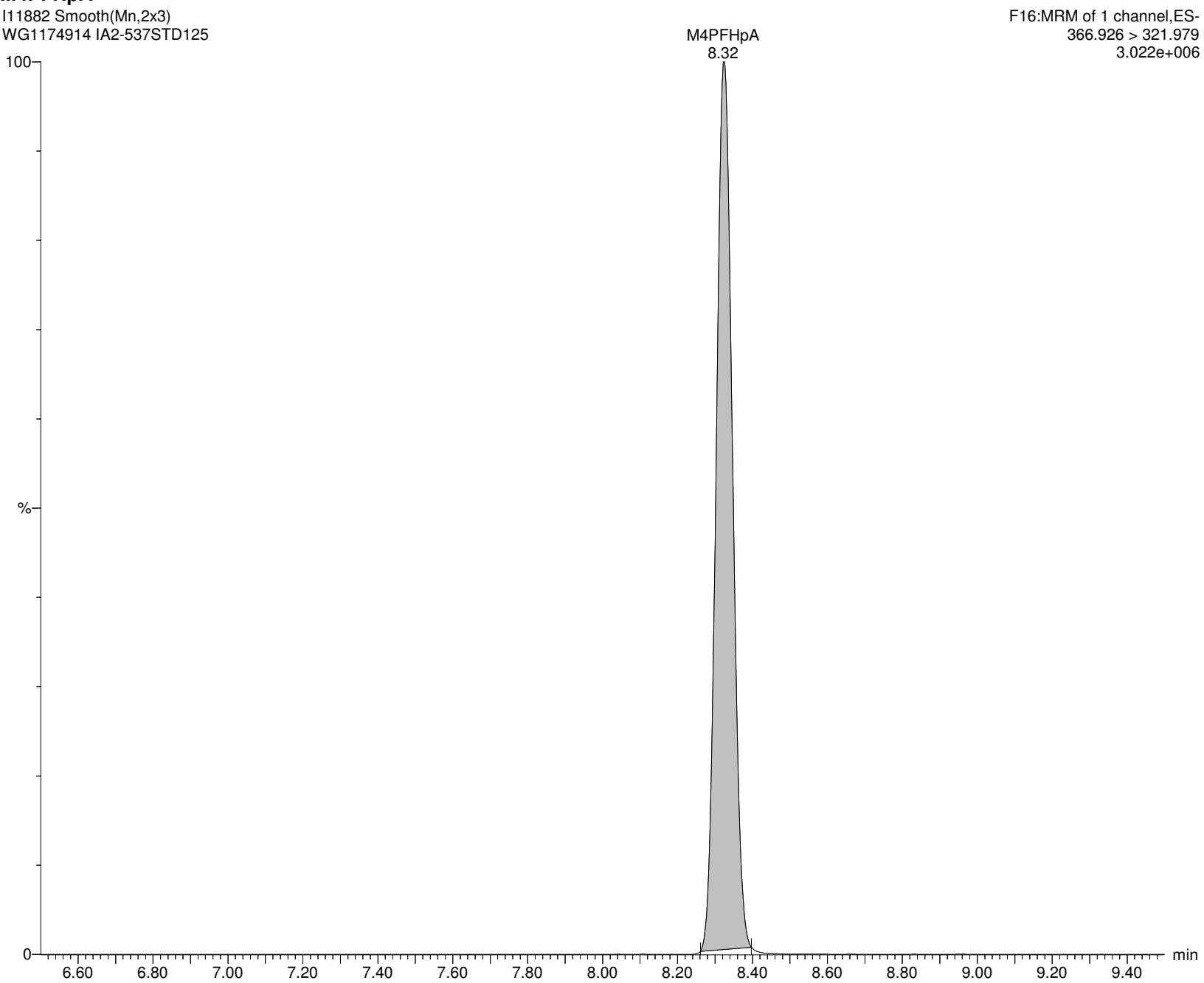

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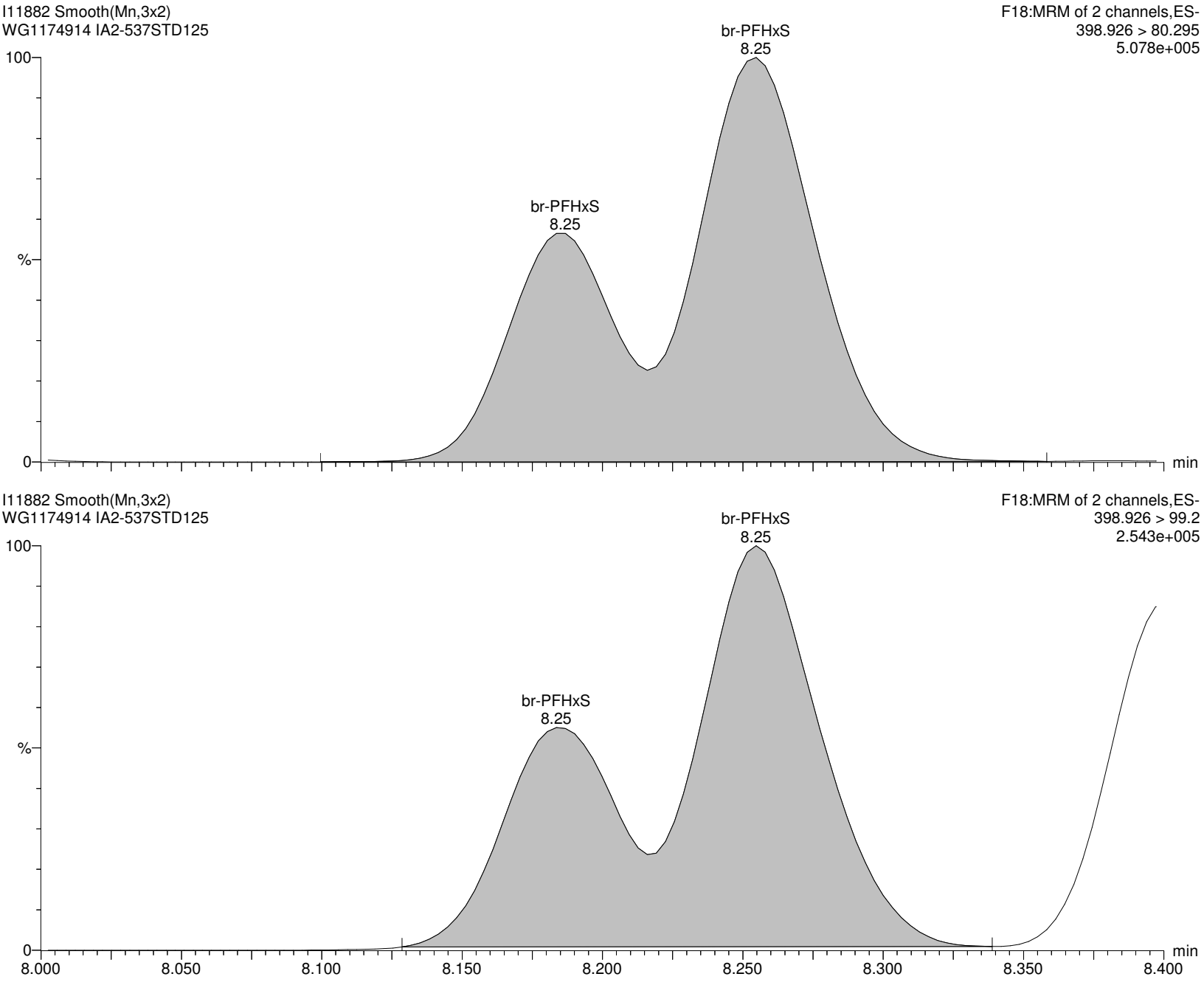

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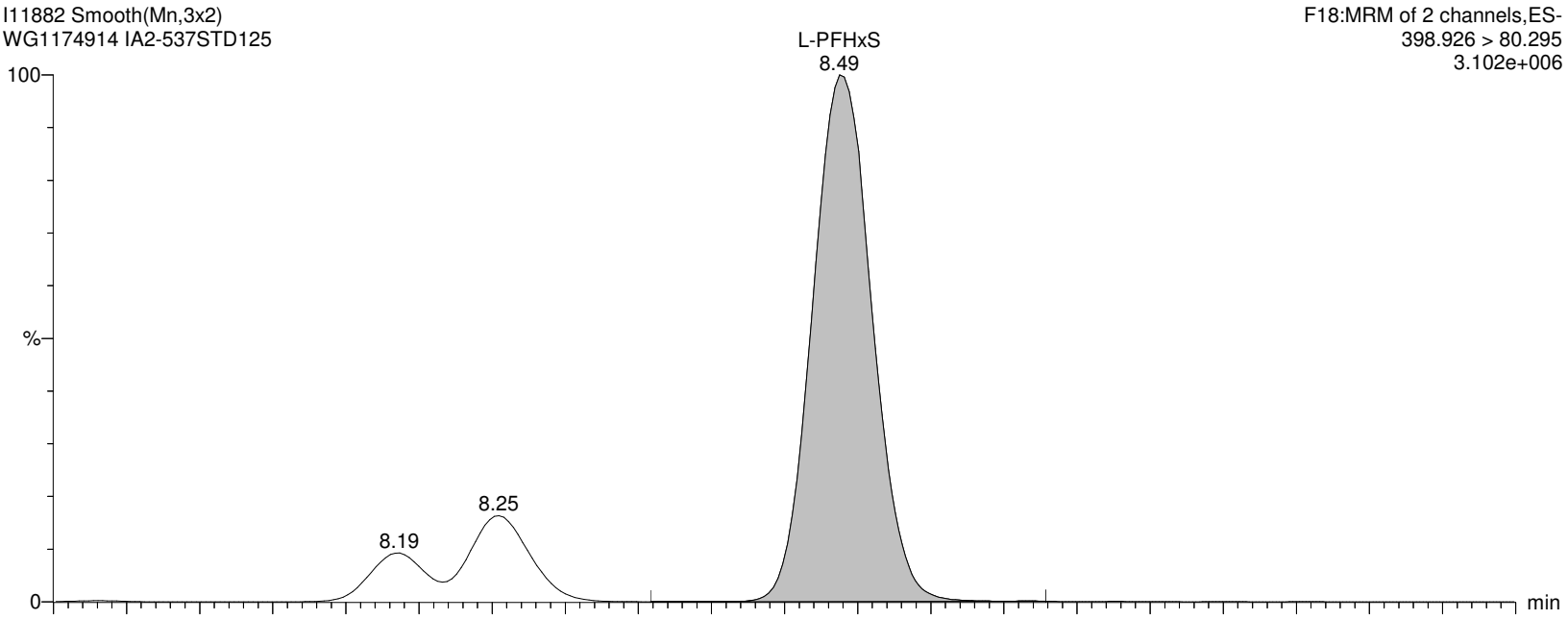

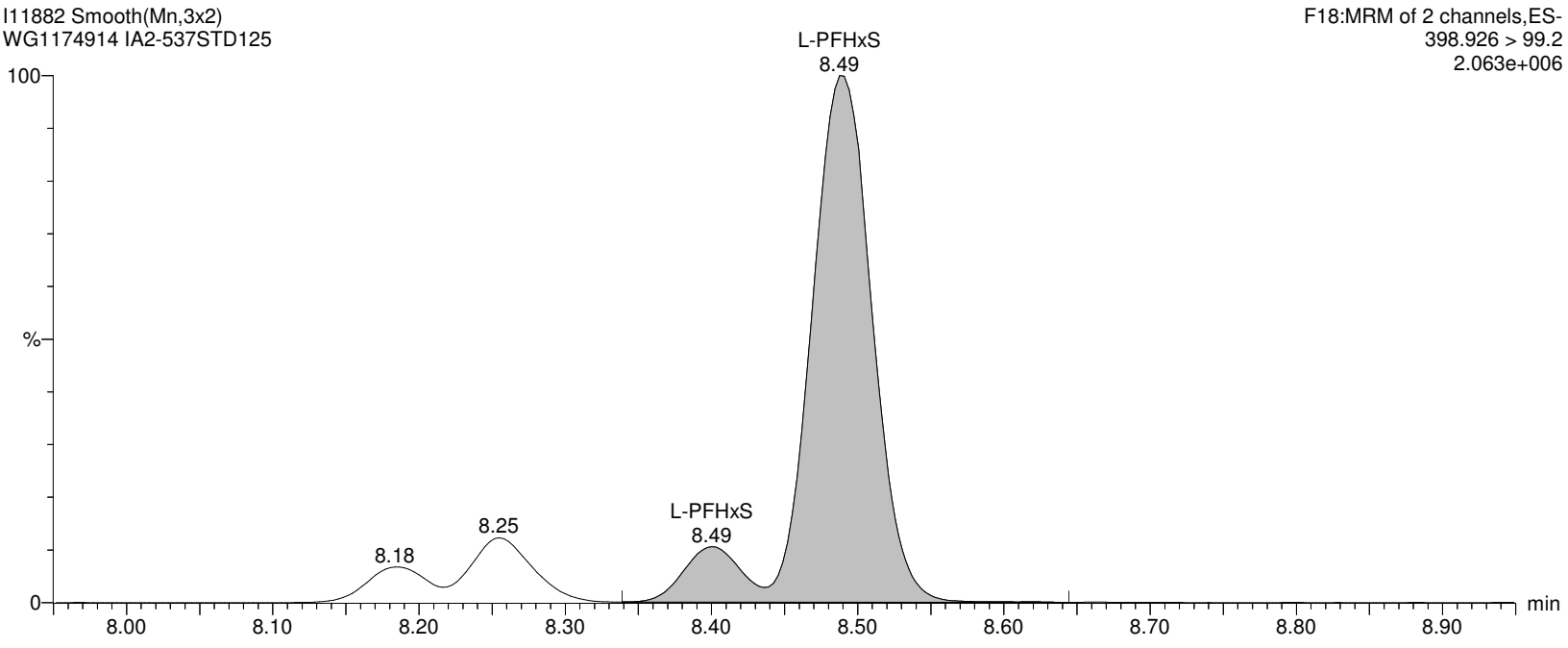

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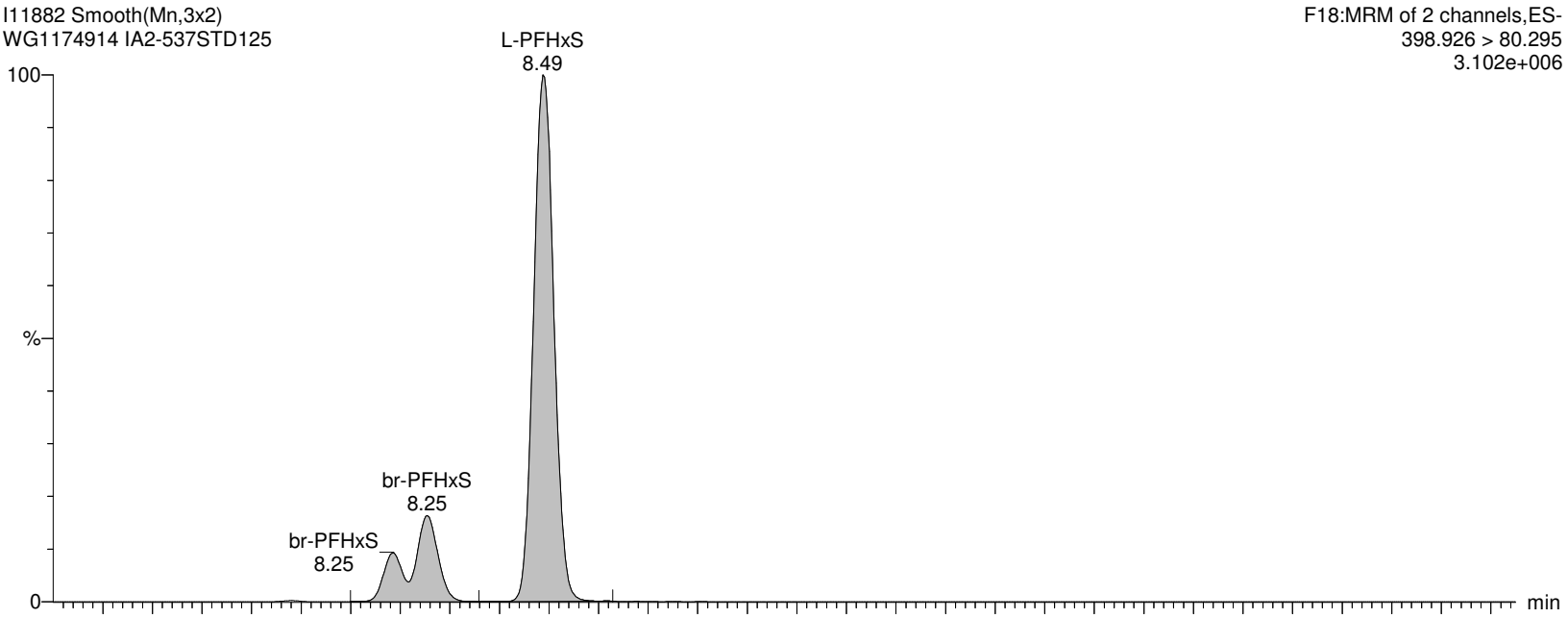

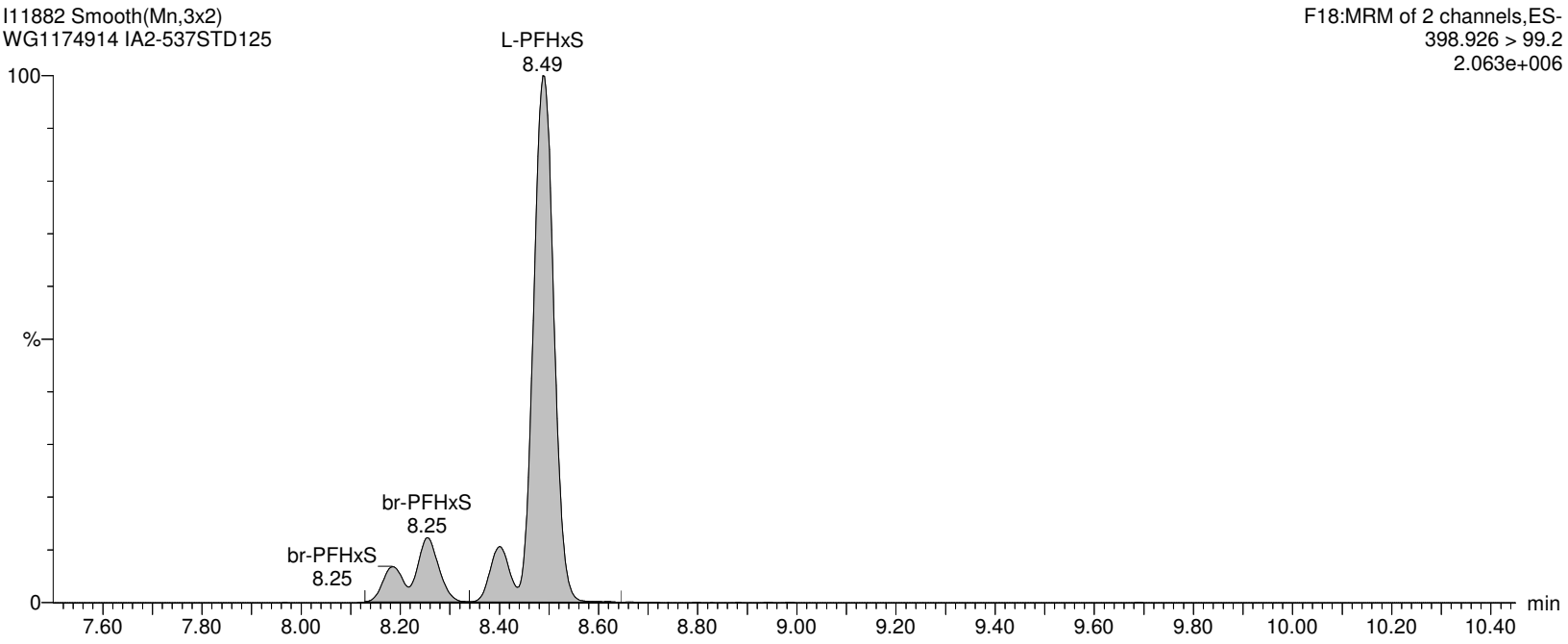

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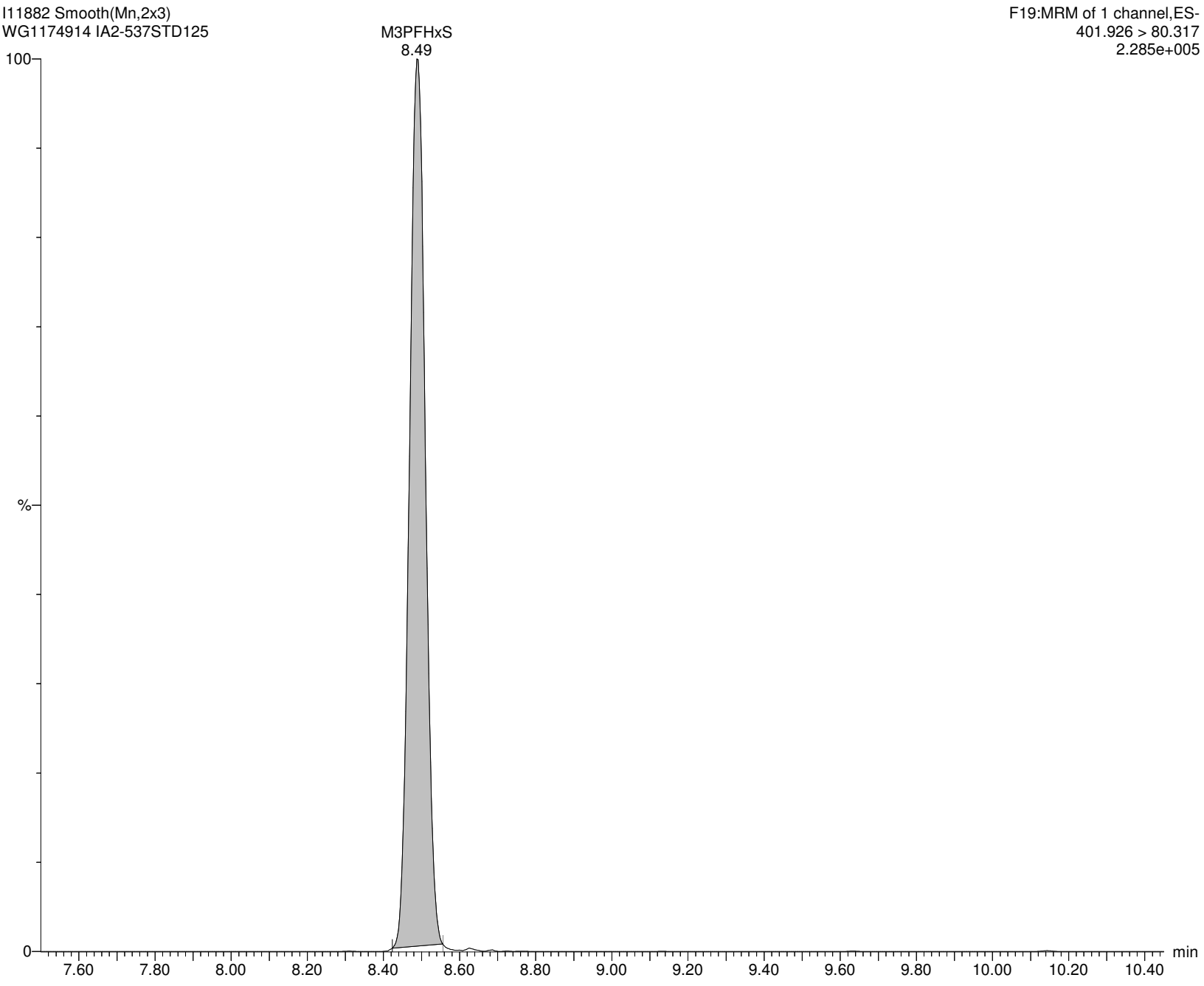

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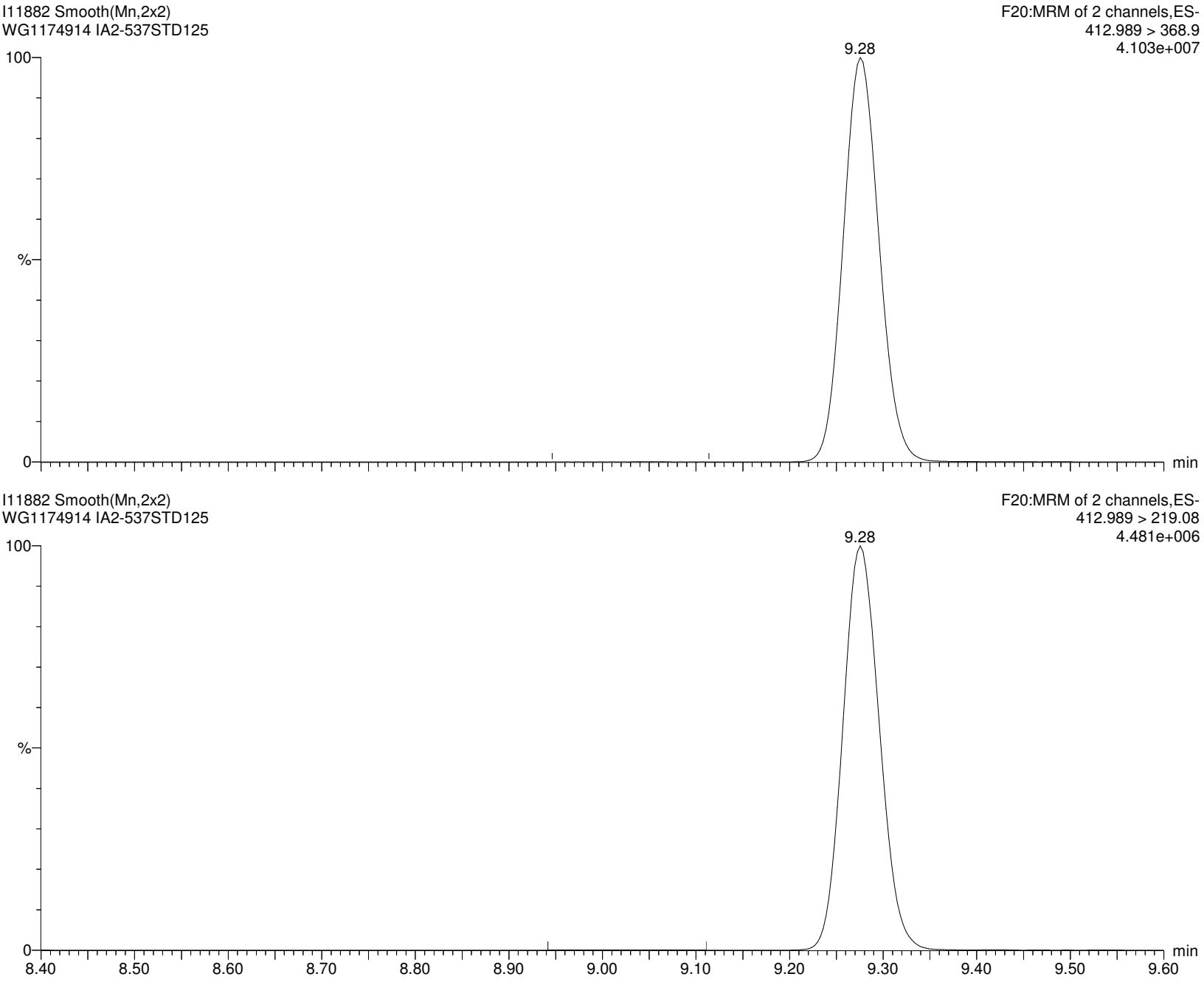

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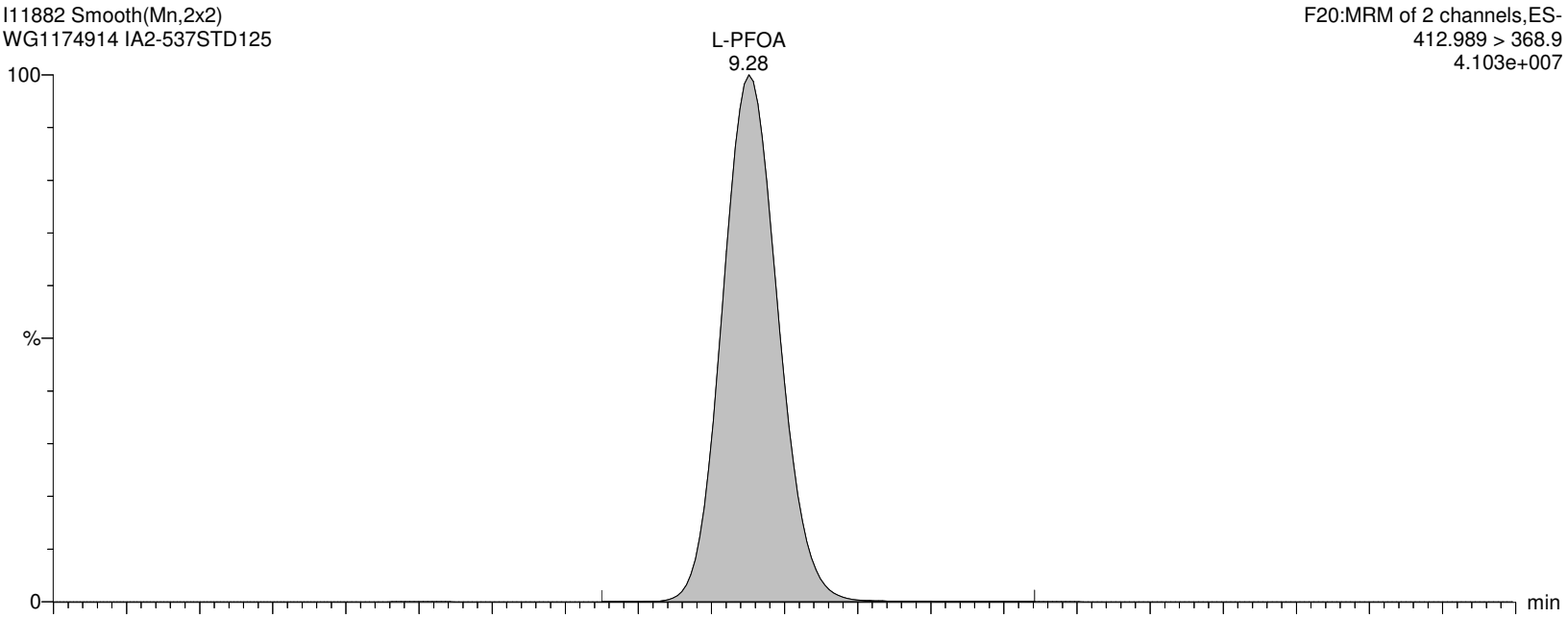

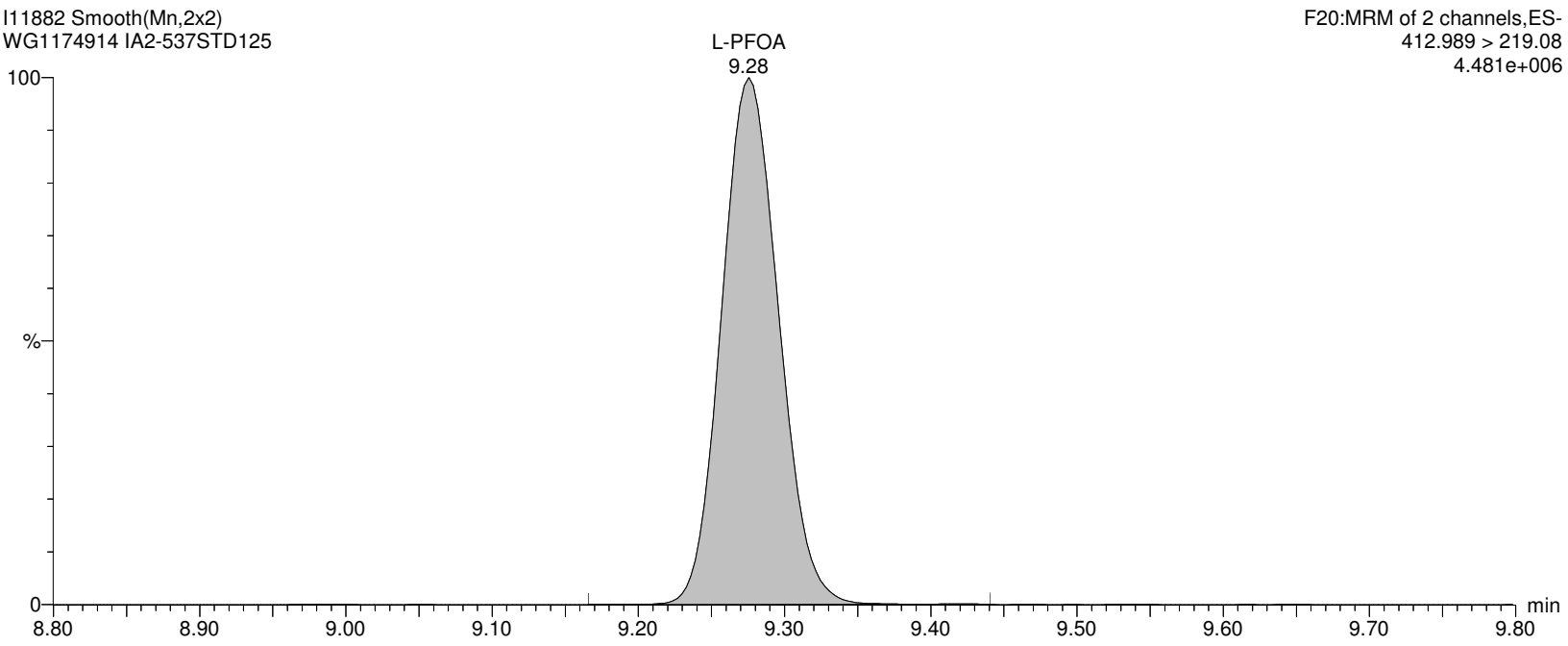

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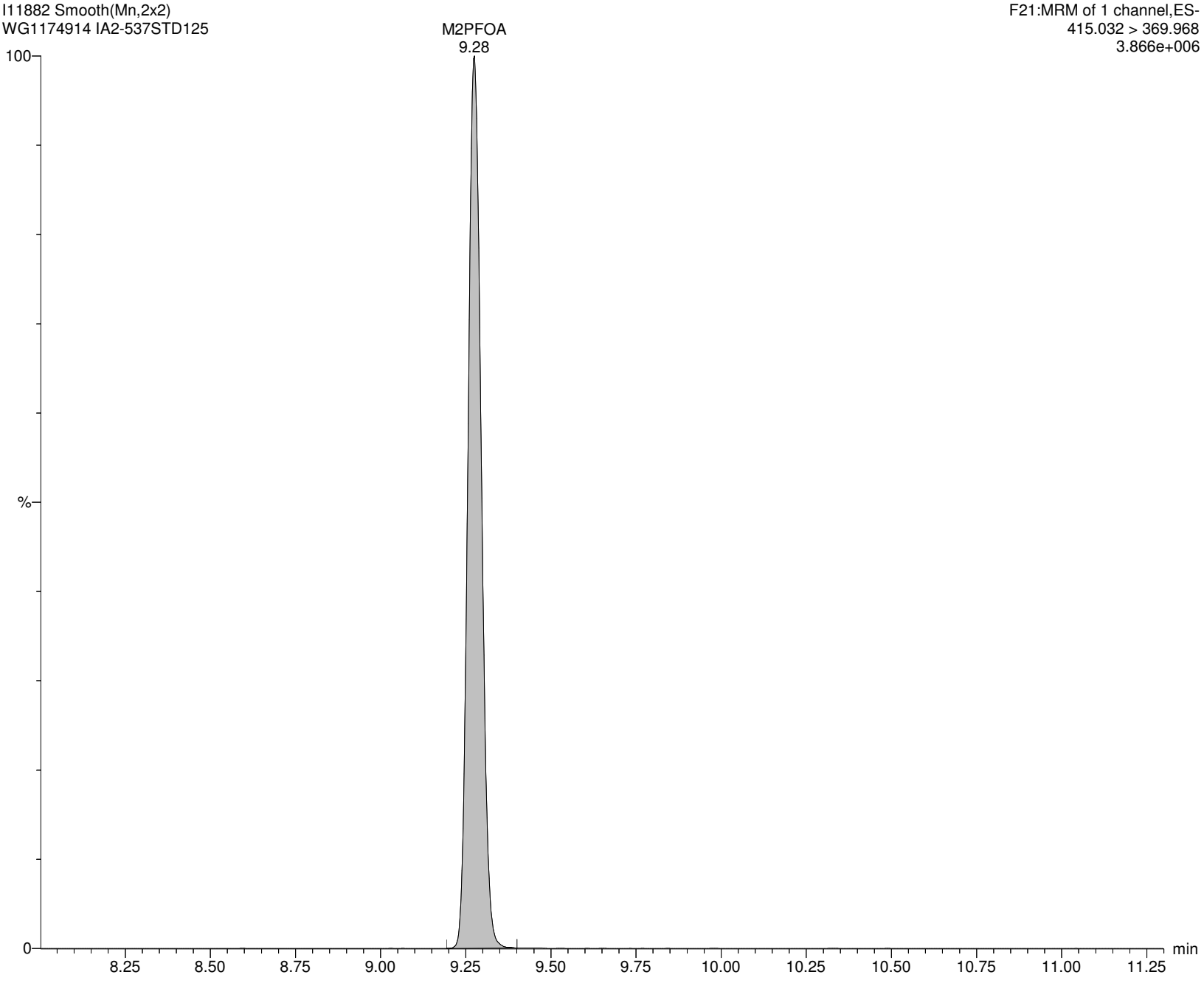

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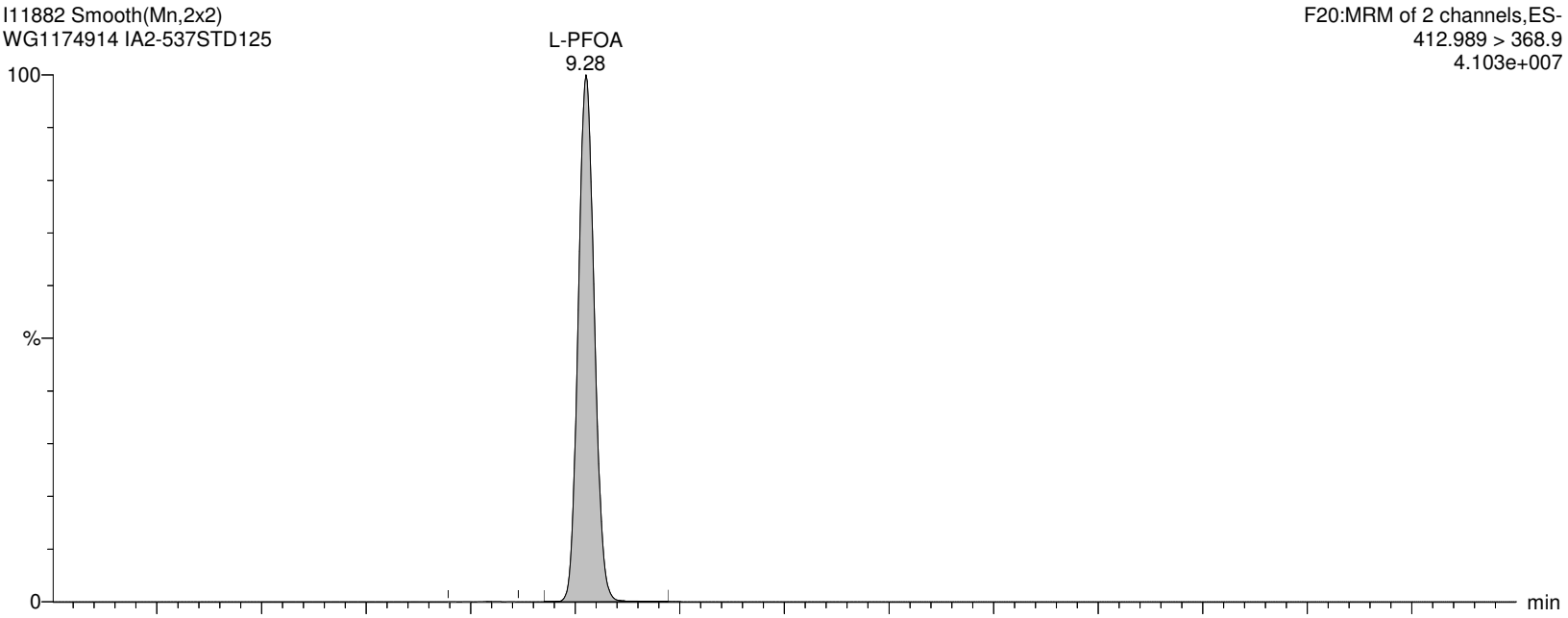

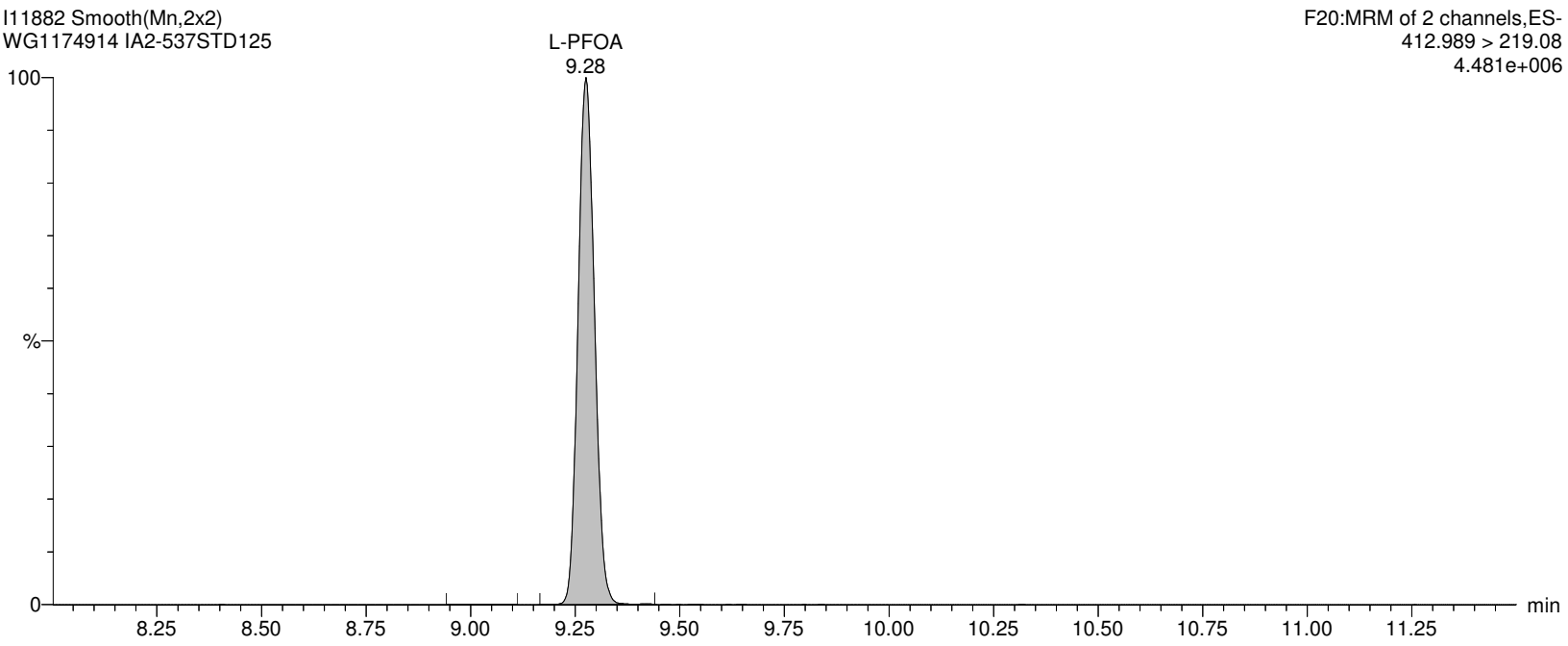

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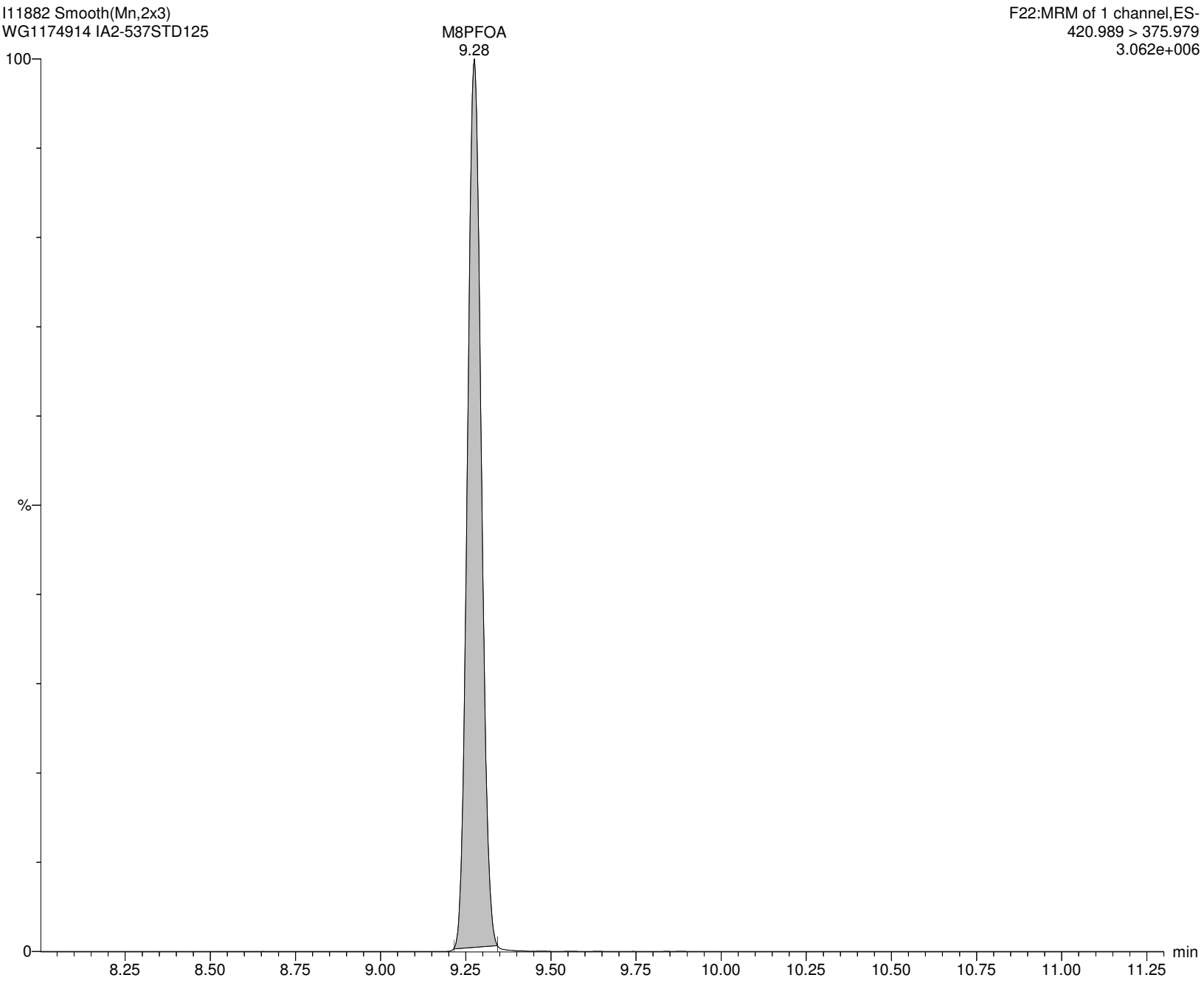

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Time: 18:08:34
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,7
Instrument: XEVO-TQSmicro#QEA0276
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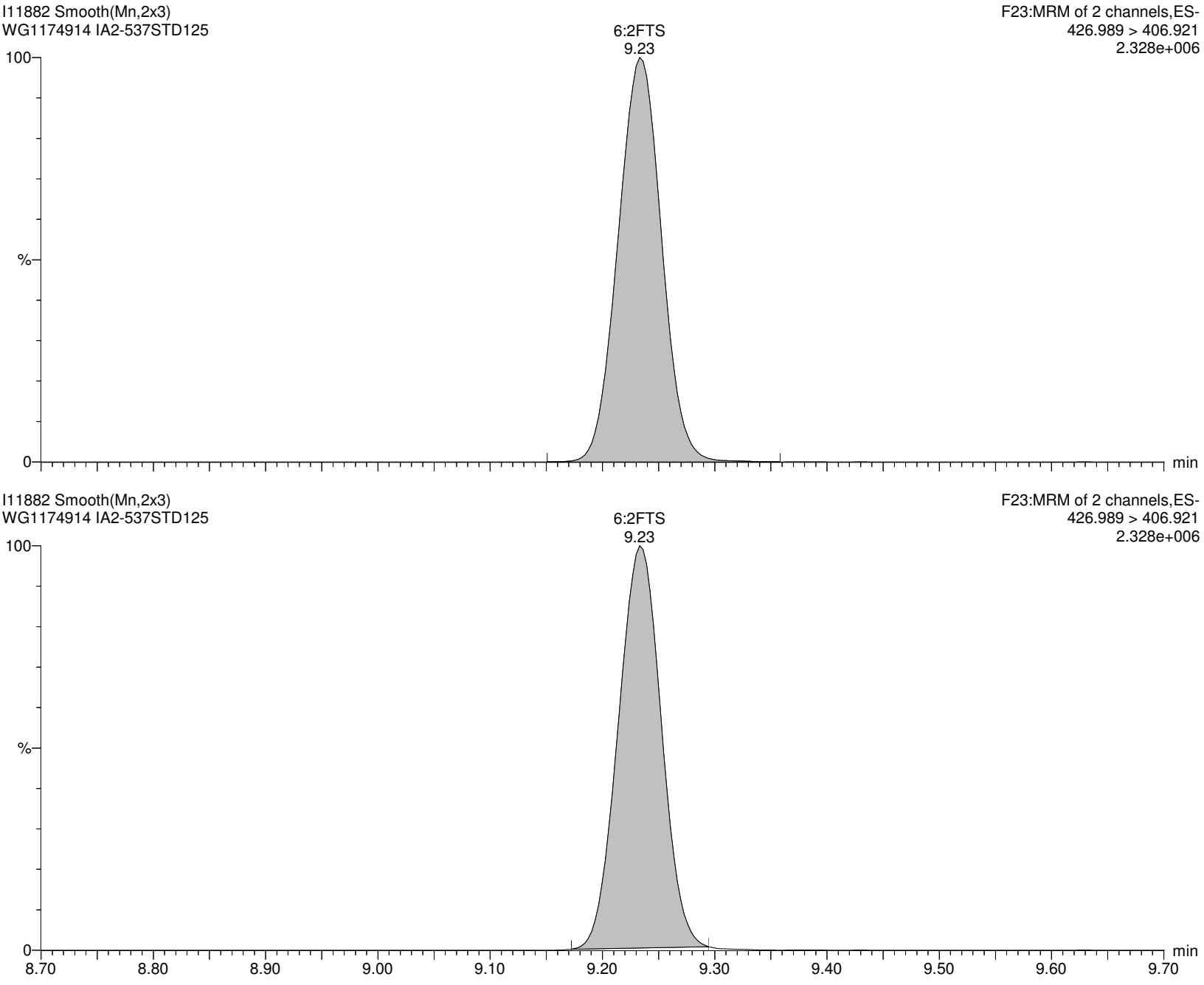

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:24 Eastern Daylight Time

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Date: 01-Nov-2018
Time: 18:08:34
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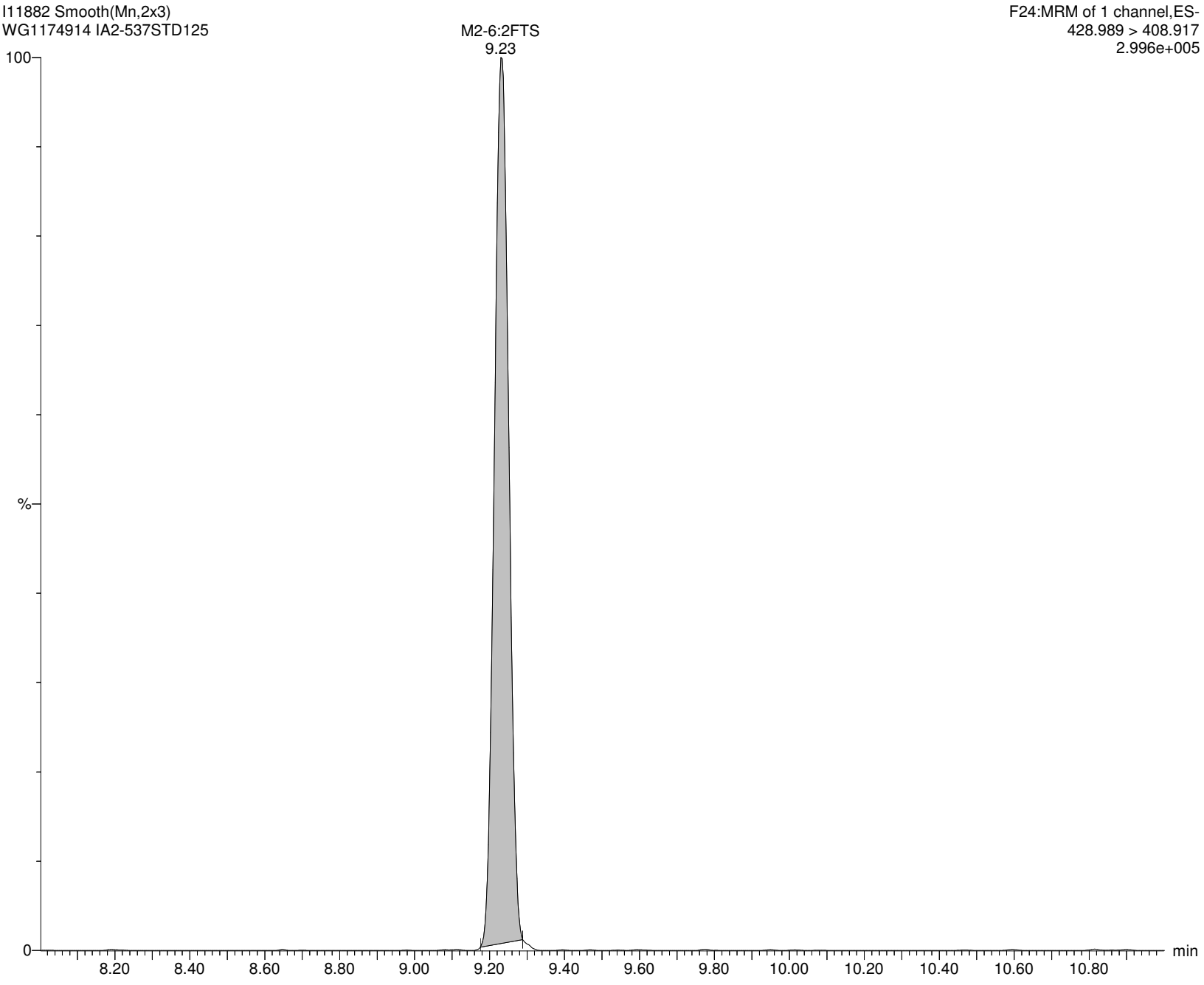
M2-6:2FTS



all concentration units in (ng/mL)

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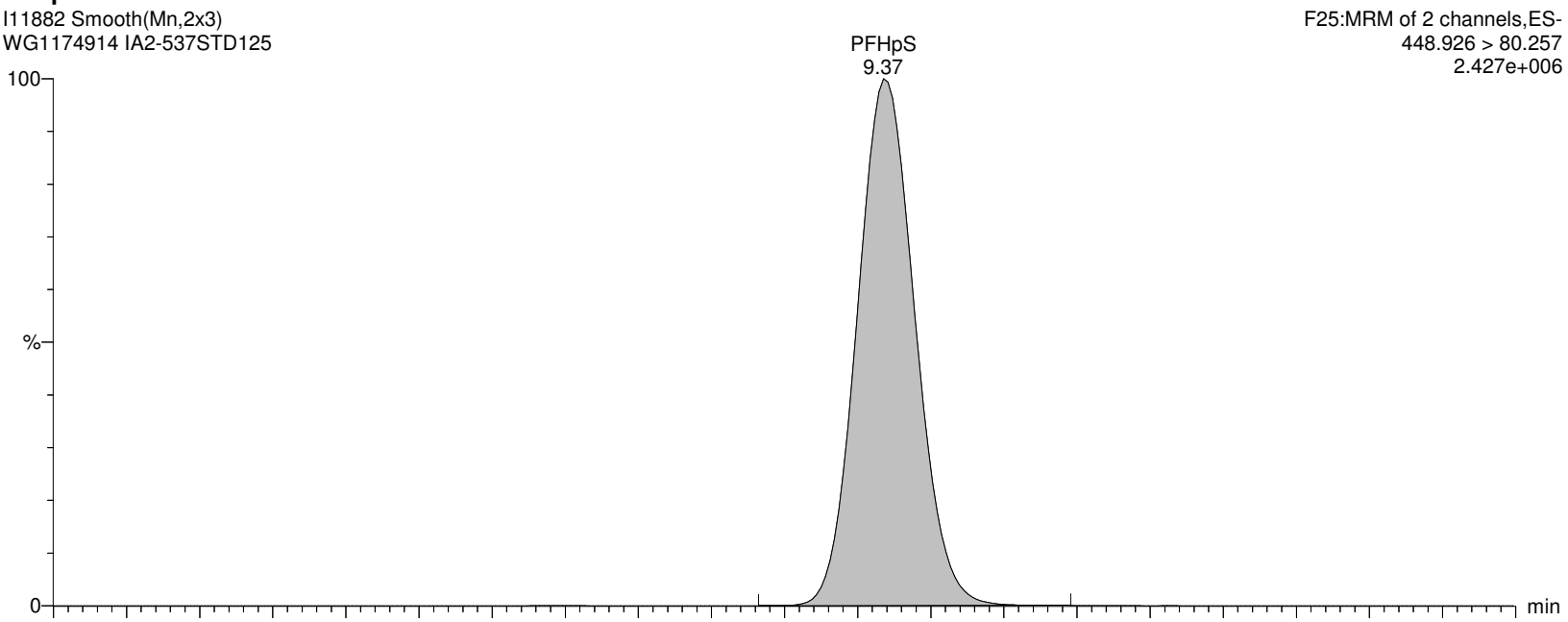

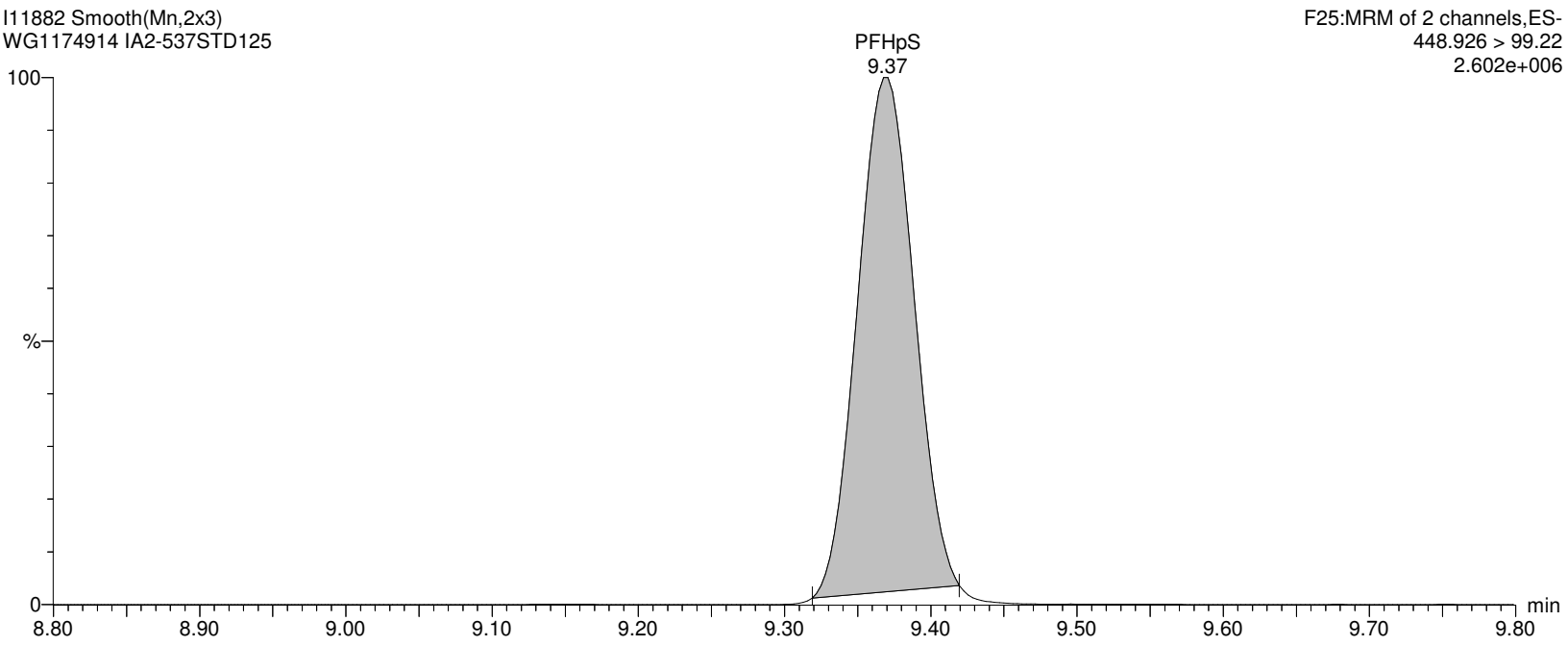

all concentration units in (ng/mL)

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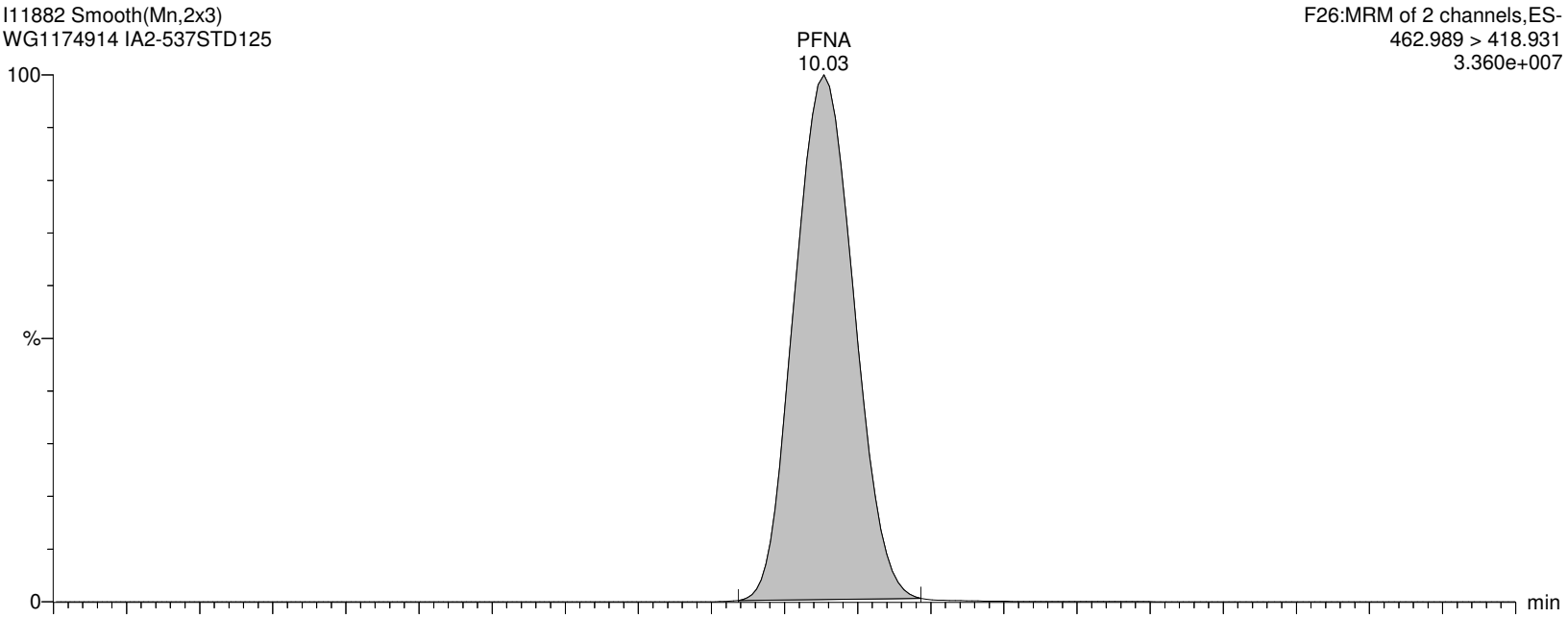

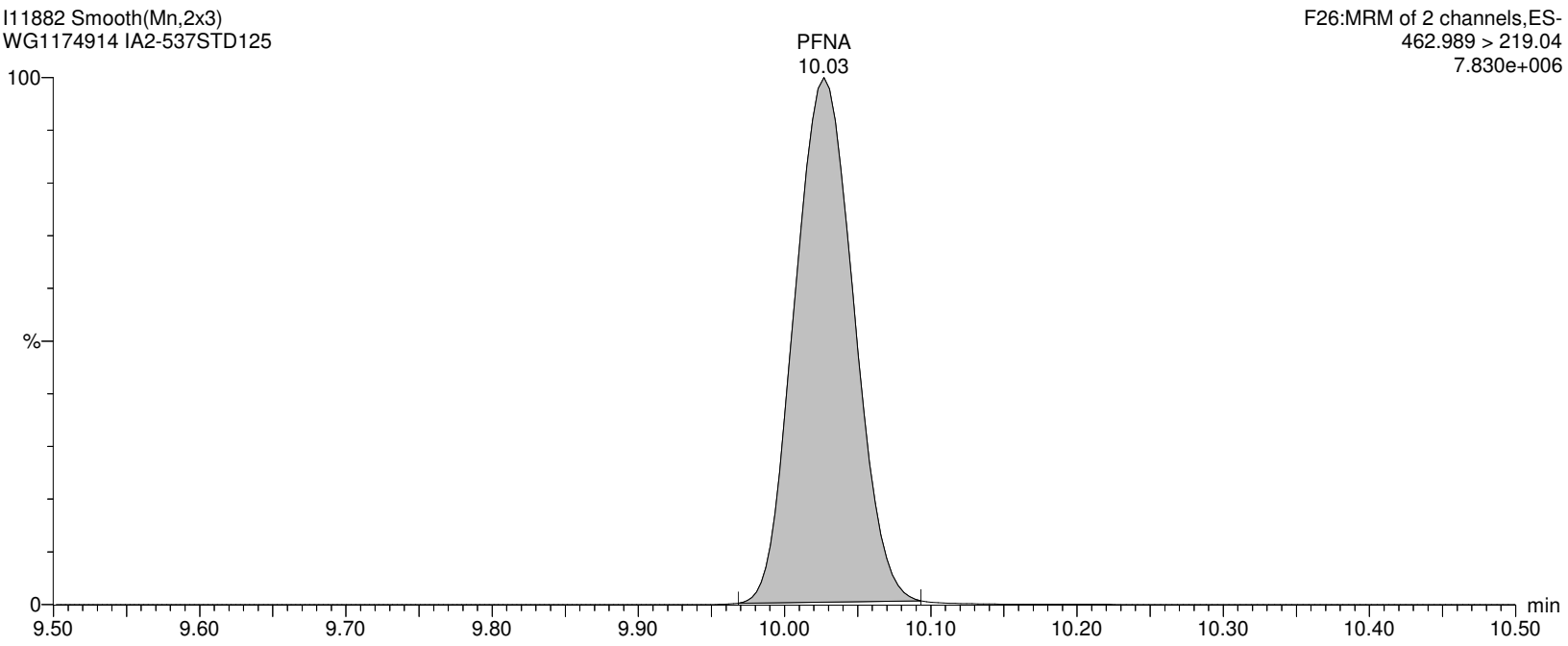

all concentration units in (ng/mL)

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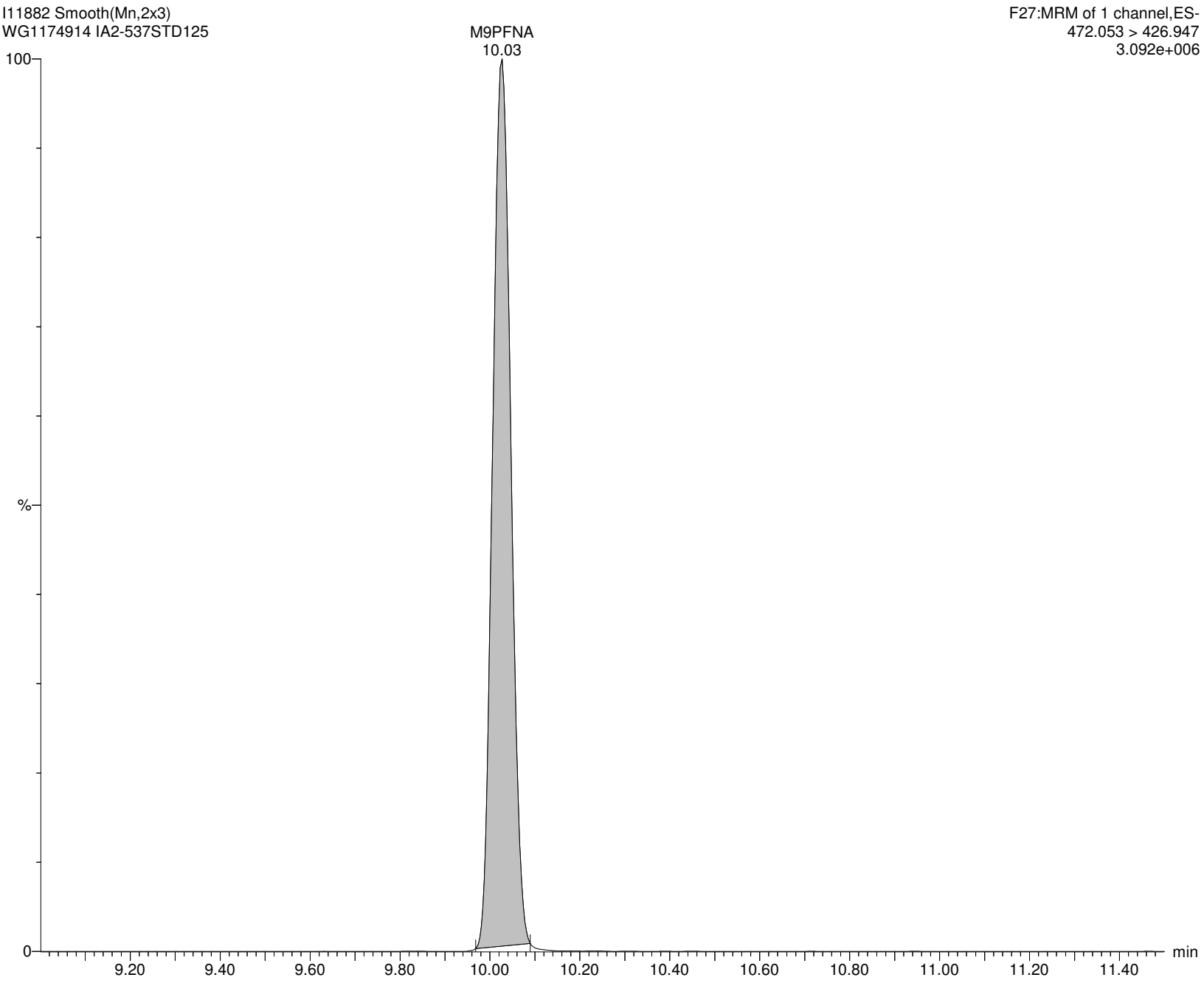

all concentration units in (ng/mL)

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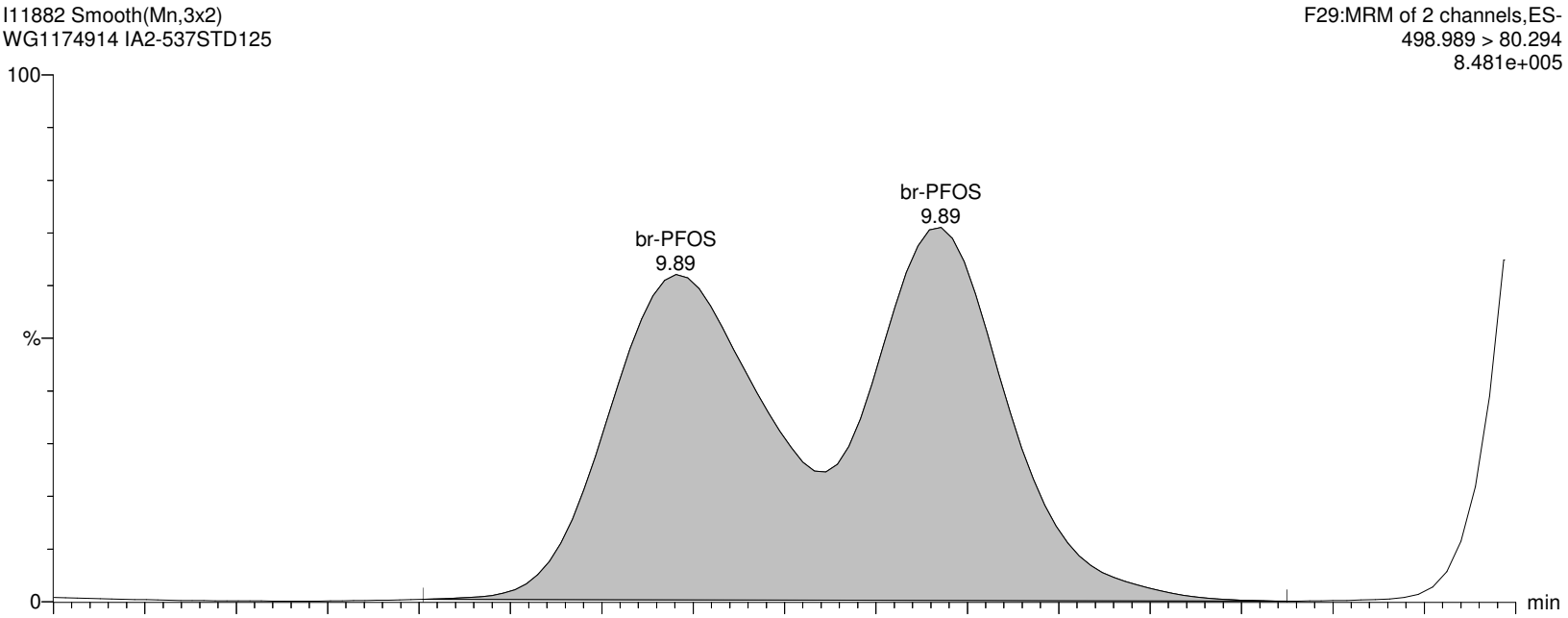

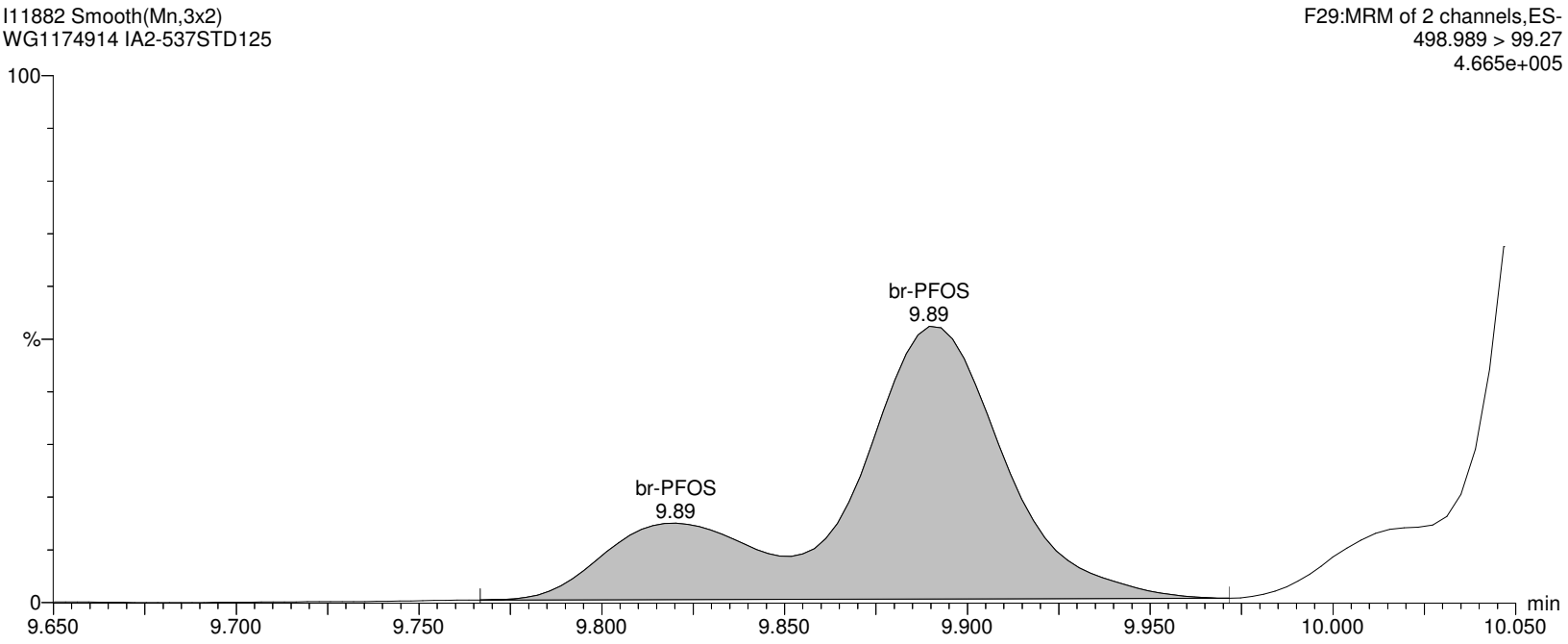

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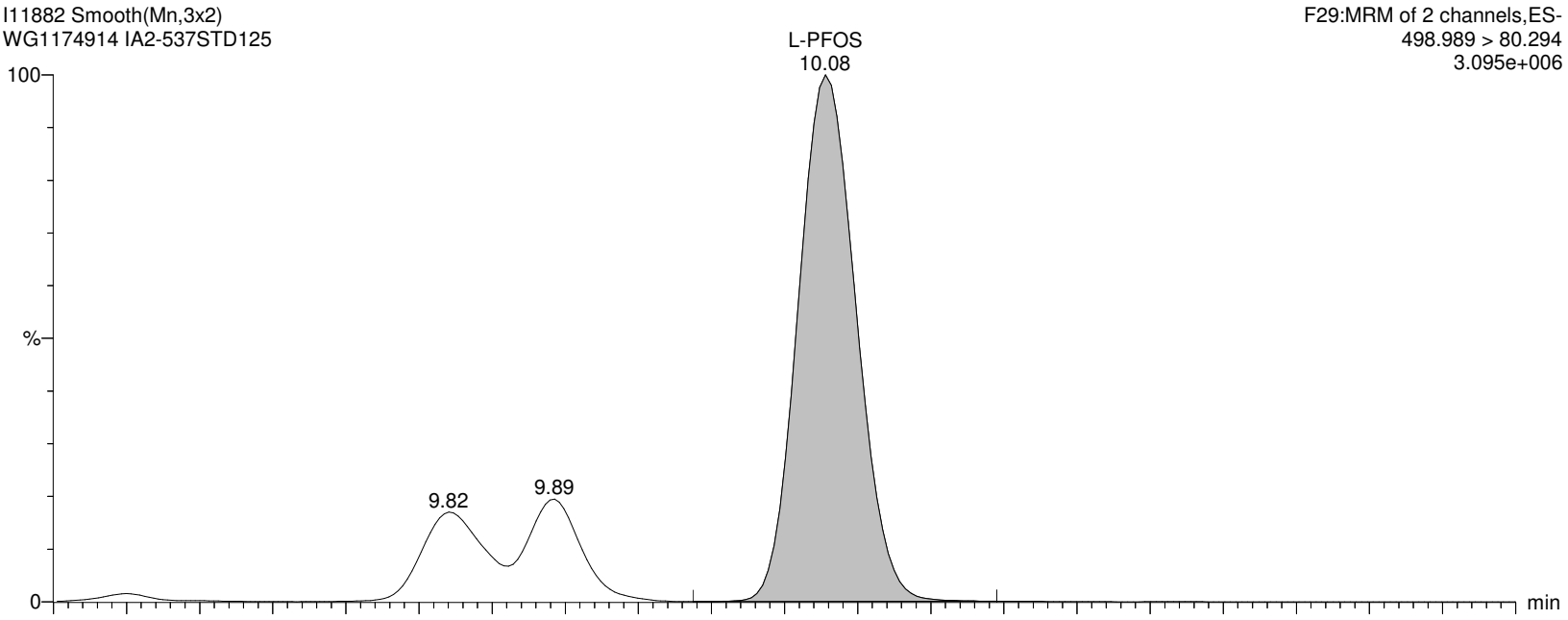

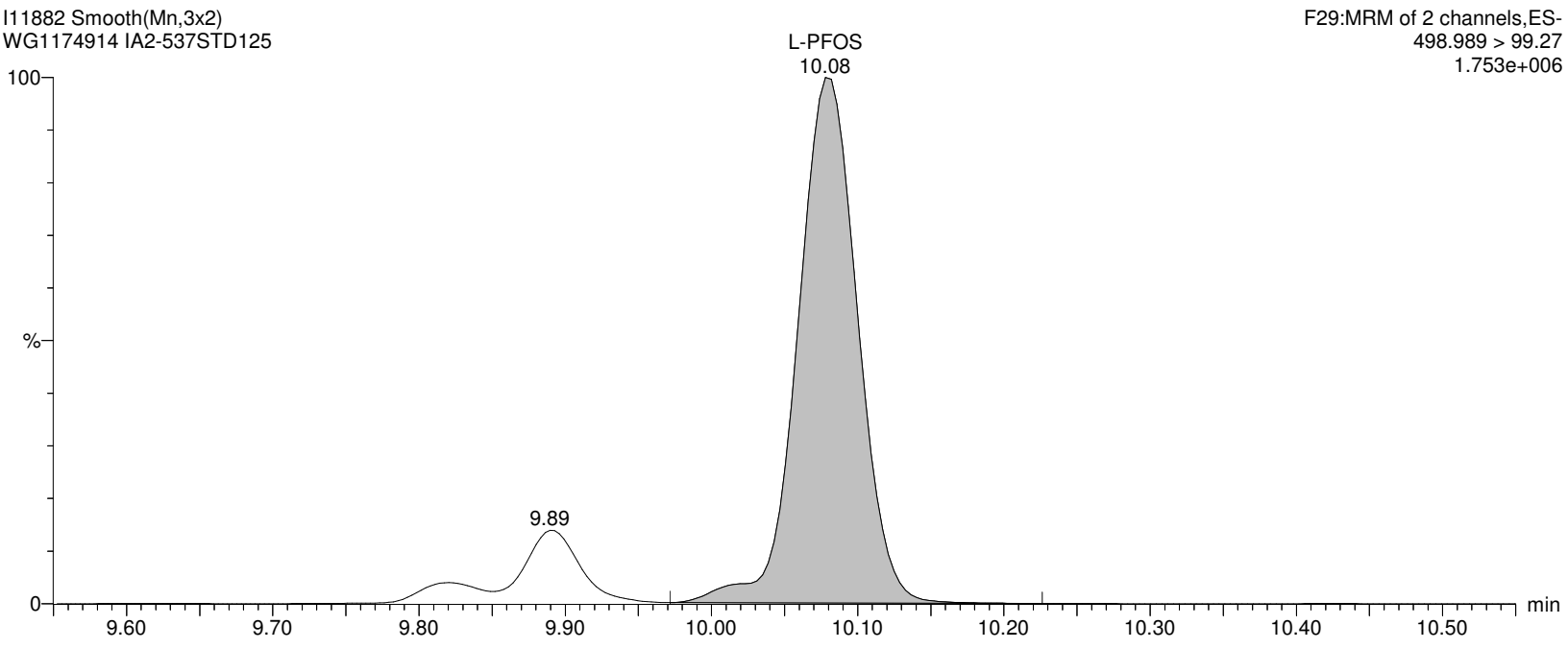

all concentration units in (ng/mL)

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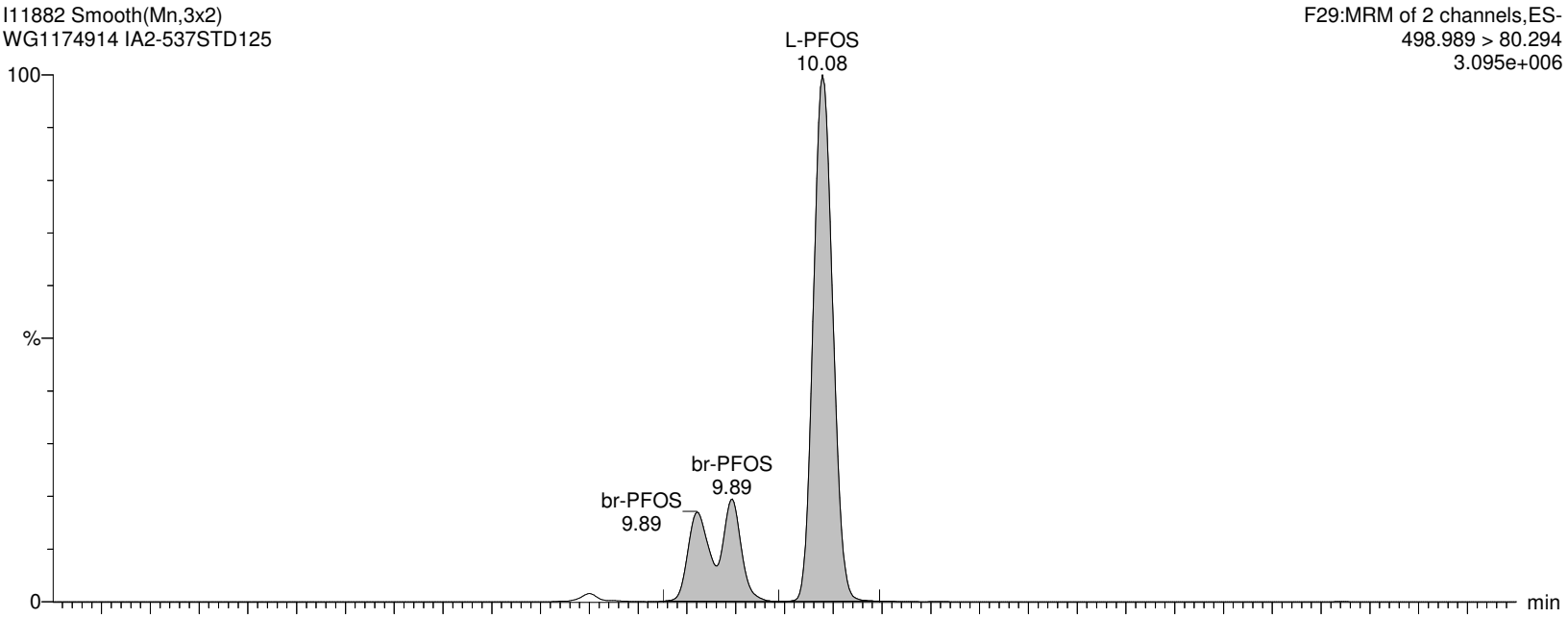

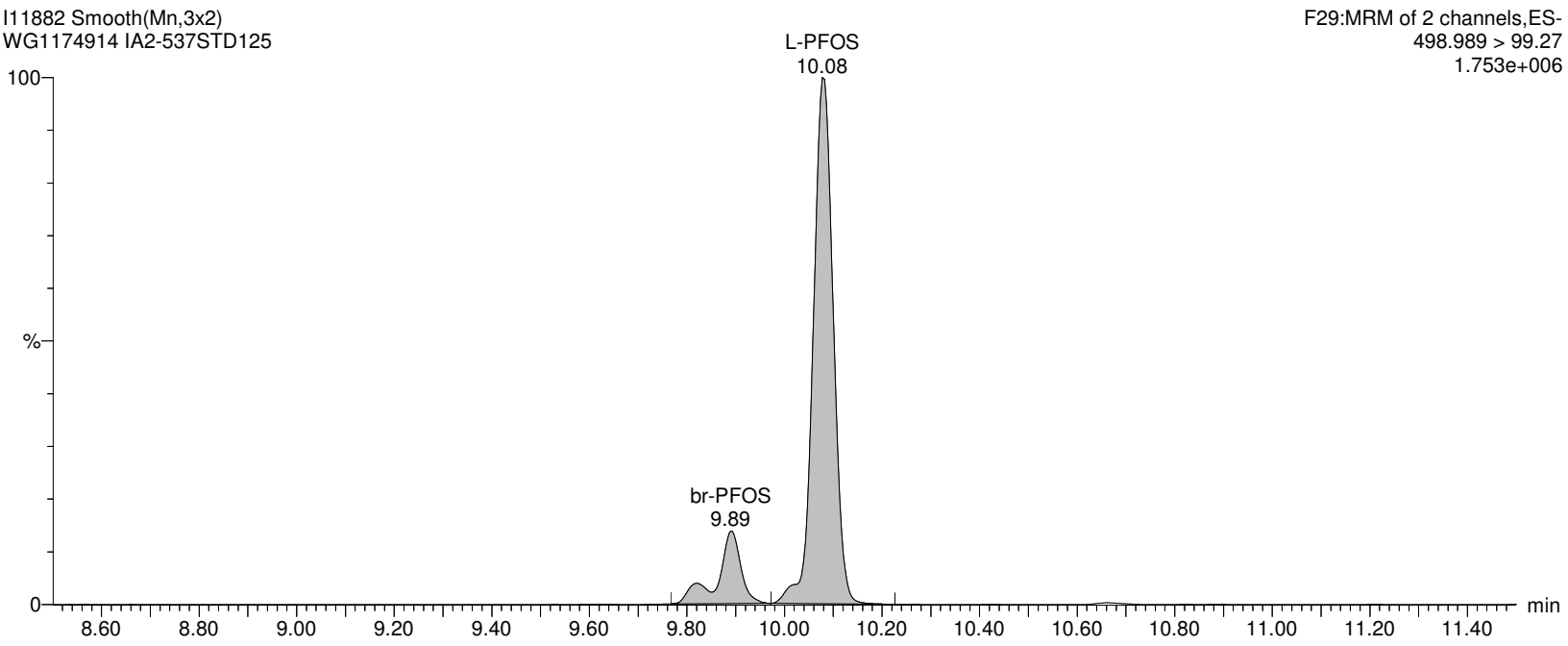

all concentration units in (ng/mL)

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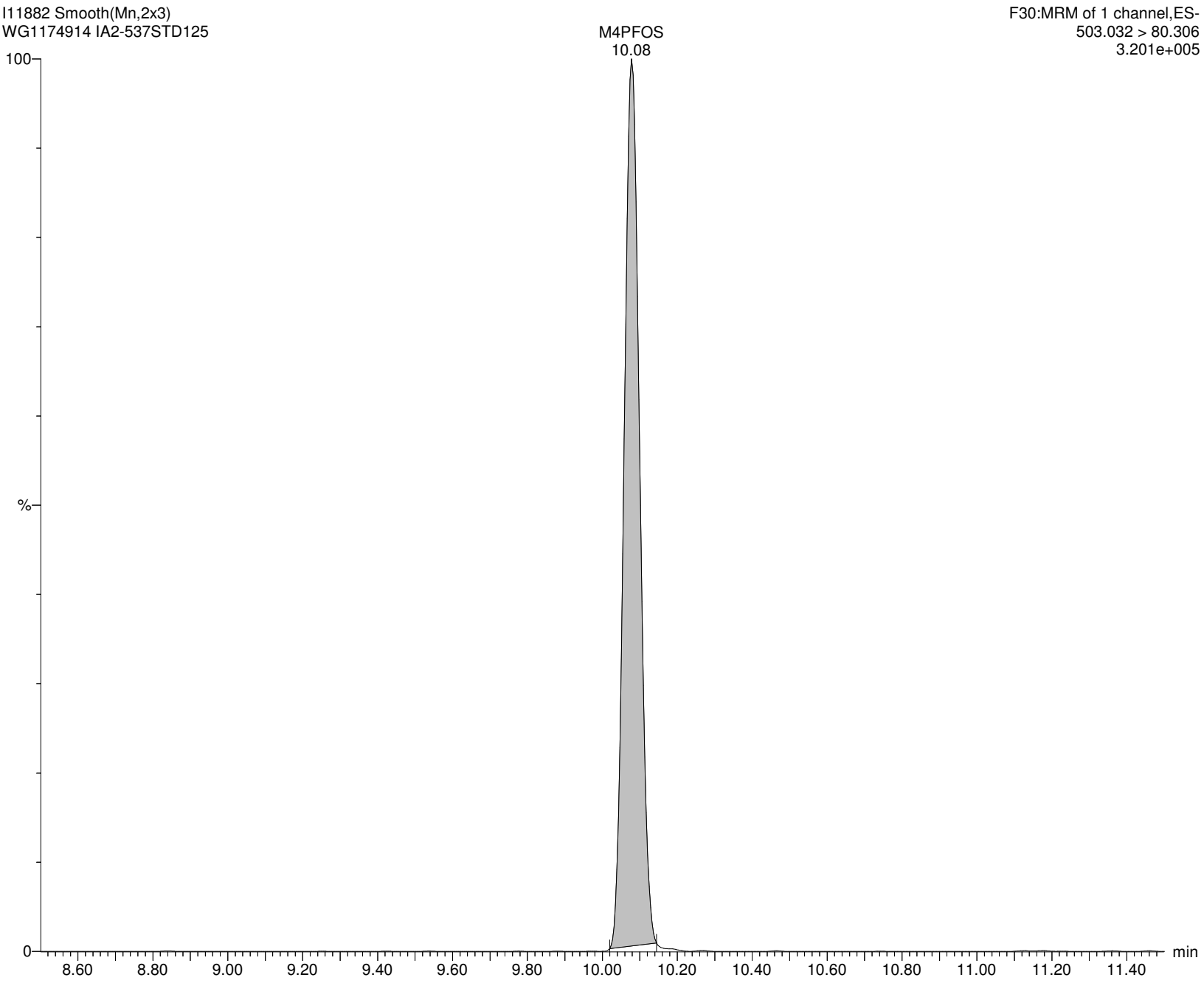

all concentration units in (ng/mL)

Alpha Analytical Inc.
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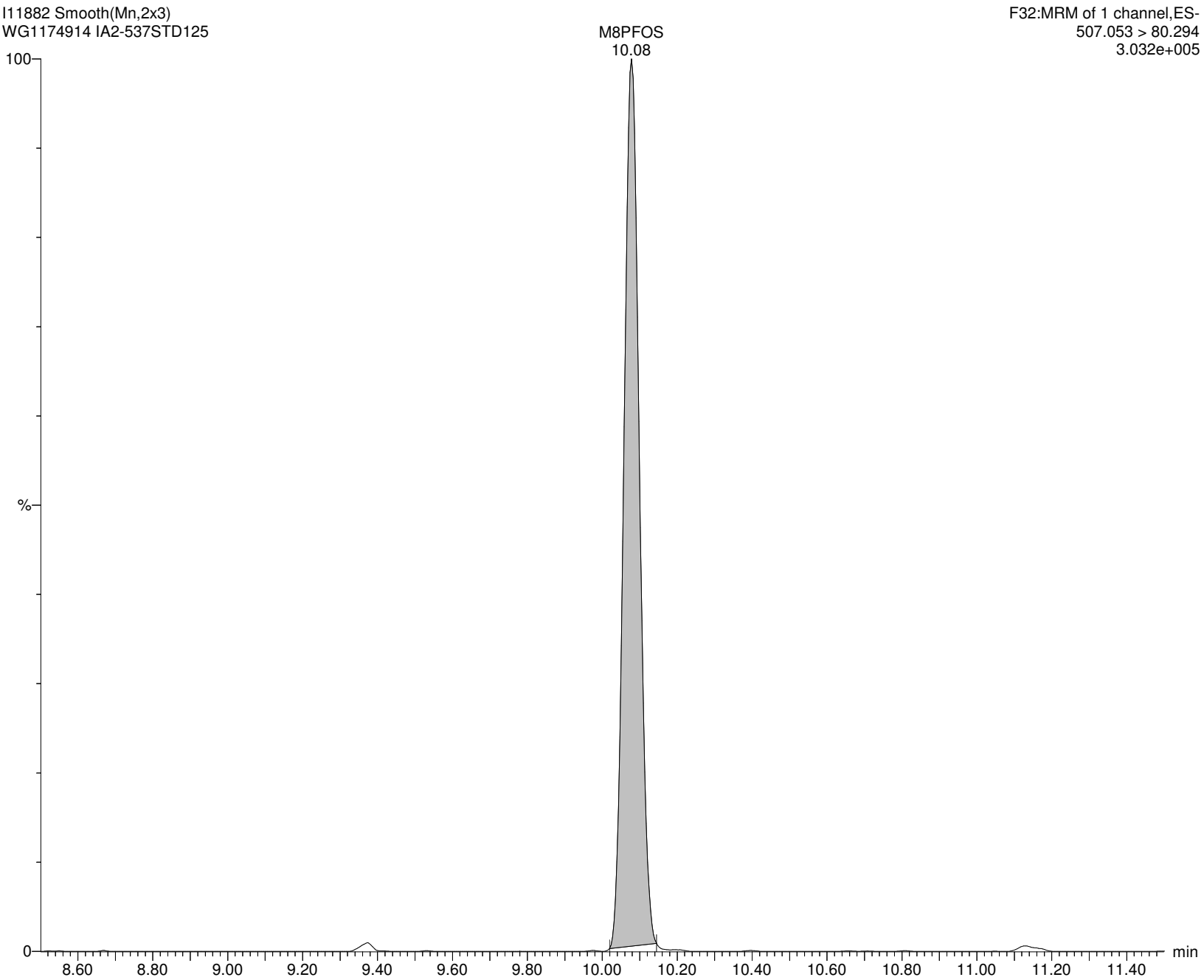

all concentration units in (ng/mL)

Alpha Analytical Inc.
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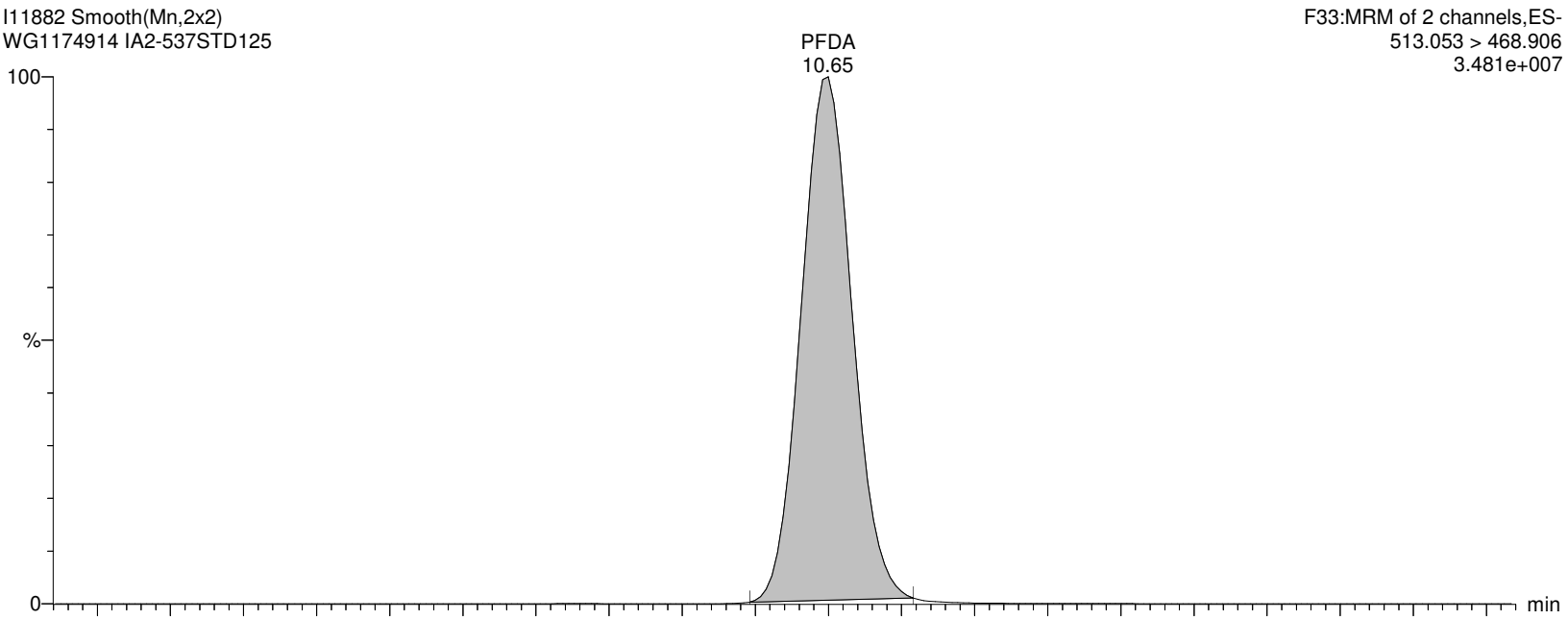

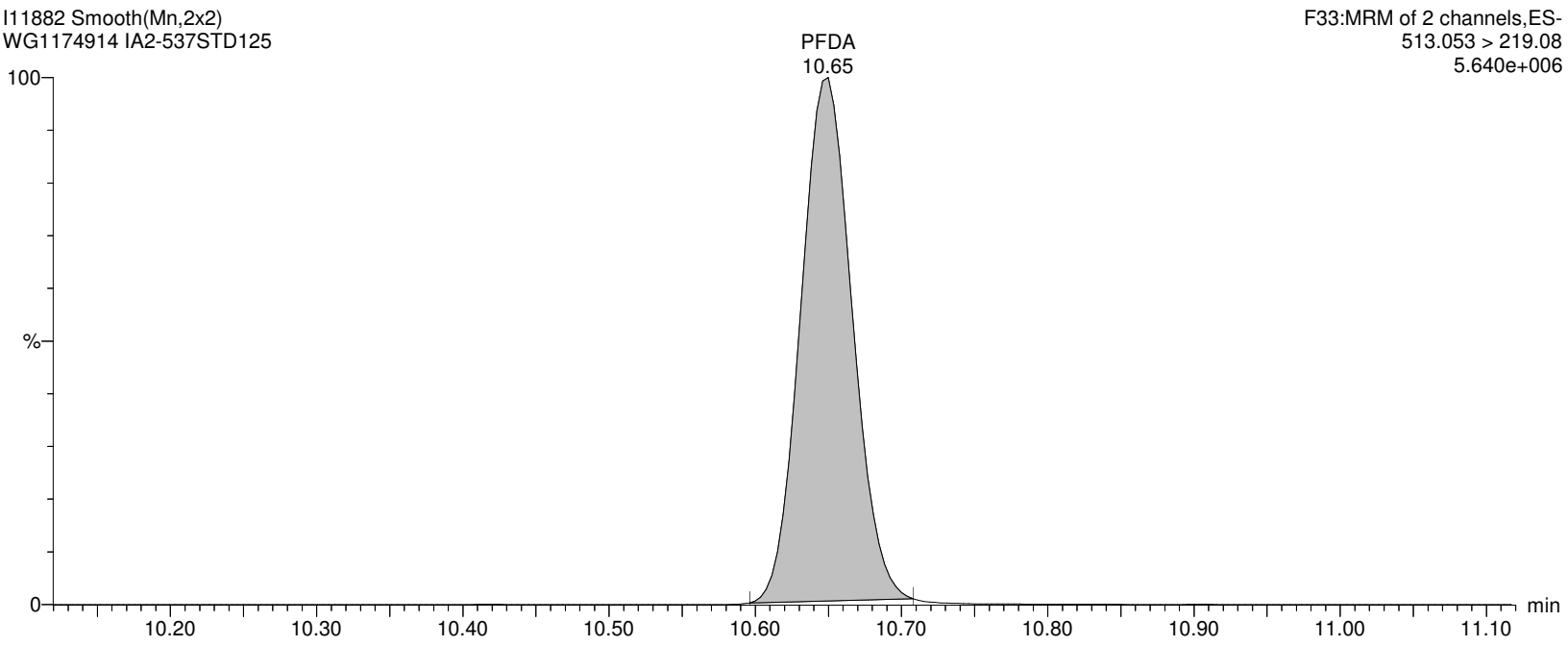

all concentration units in (ng/mL)

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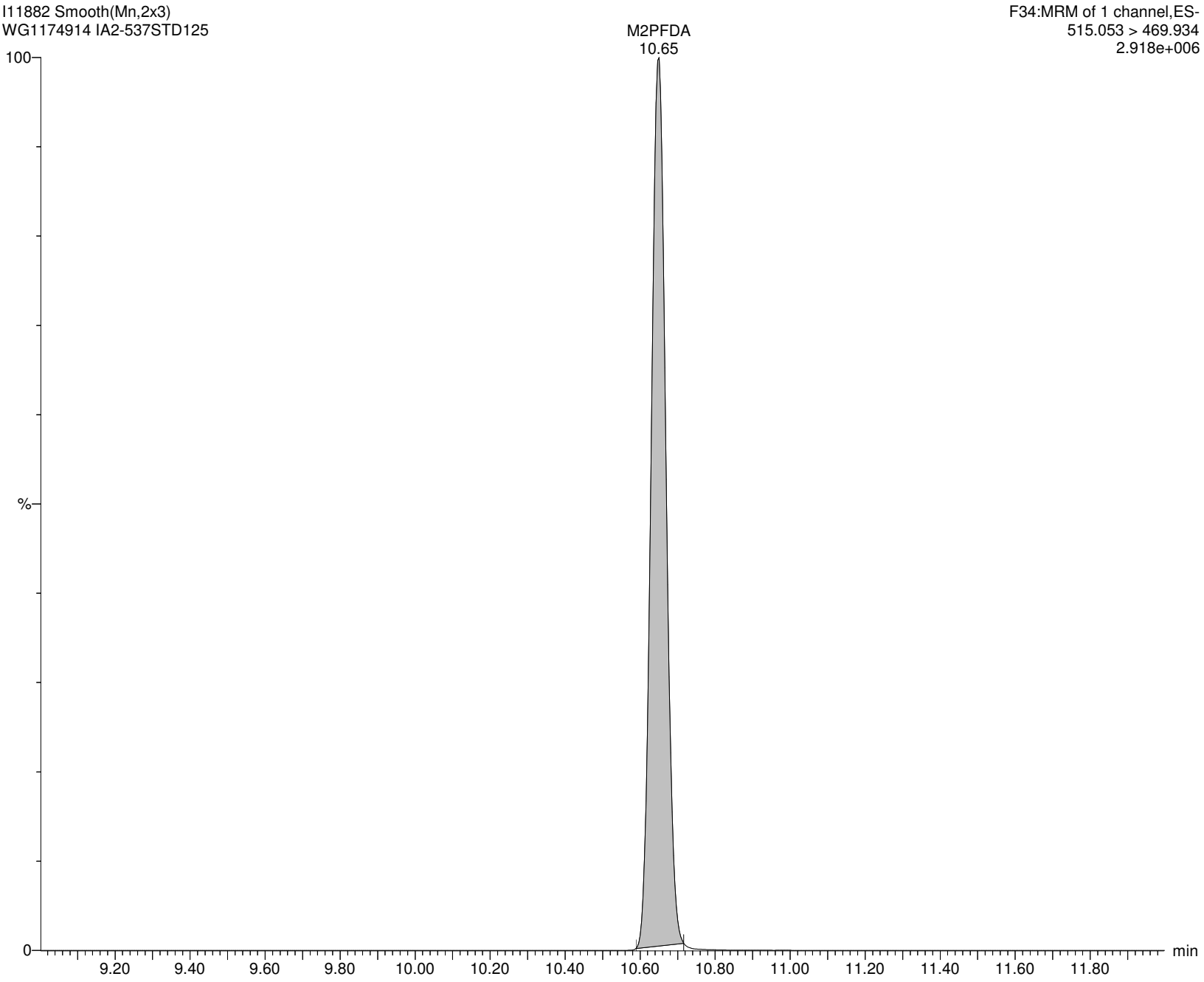

all concentration units in (ng/mL)

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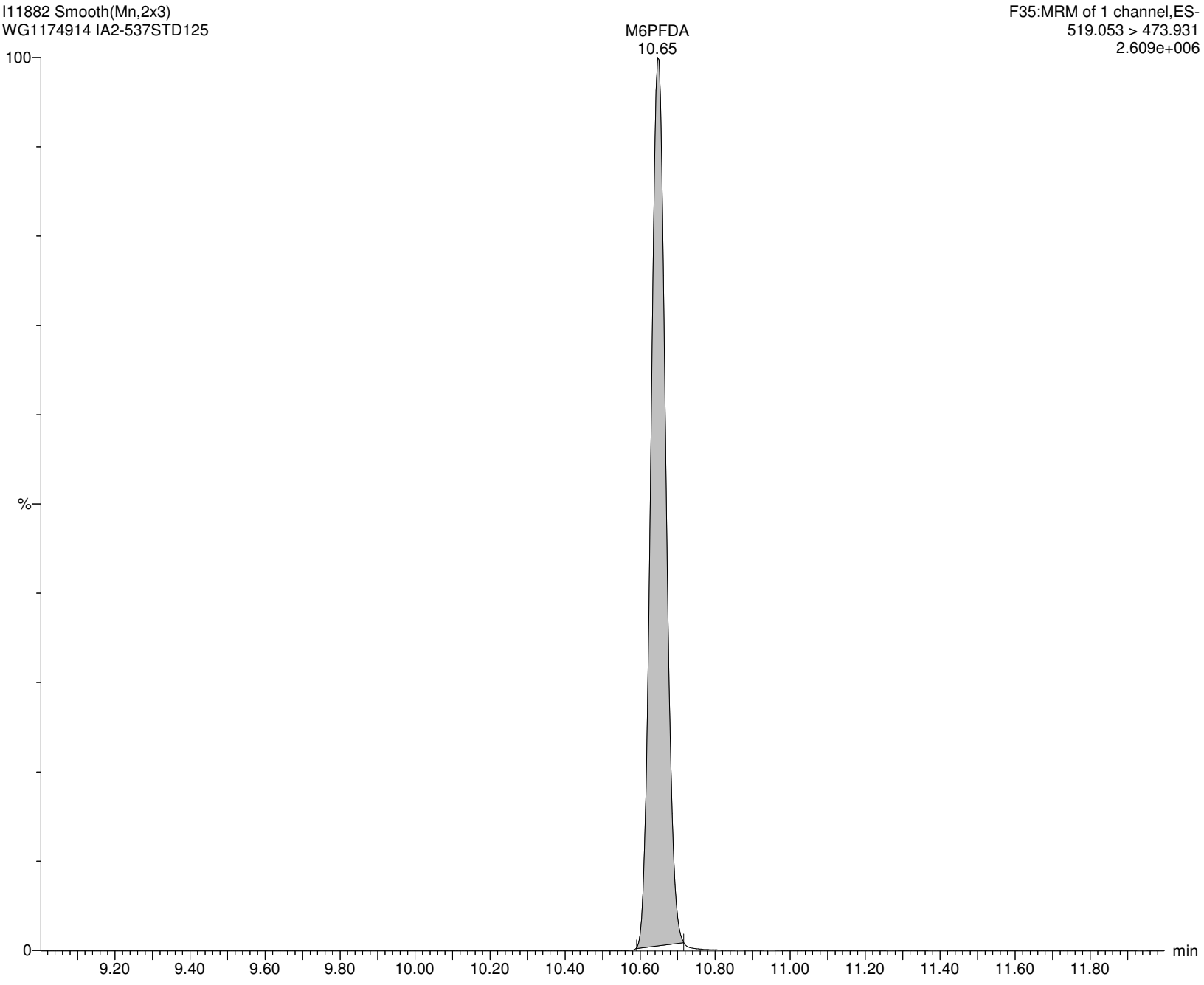

all concentration units in (ng/mL)

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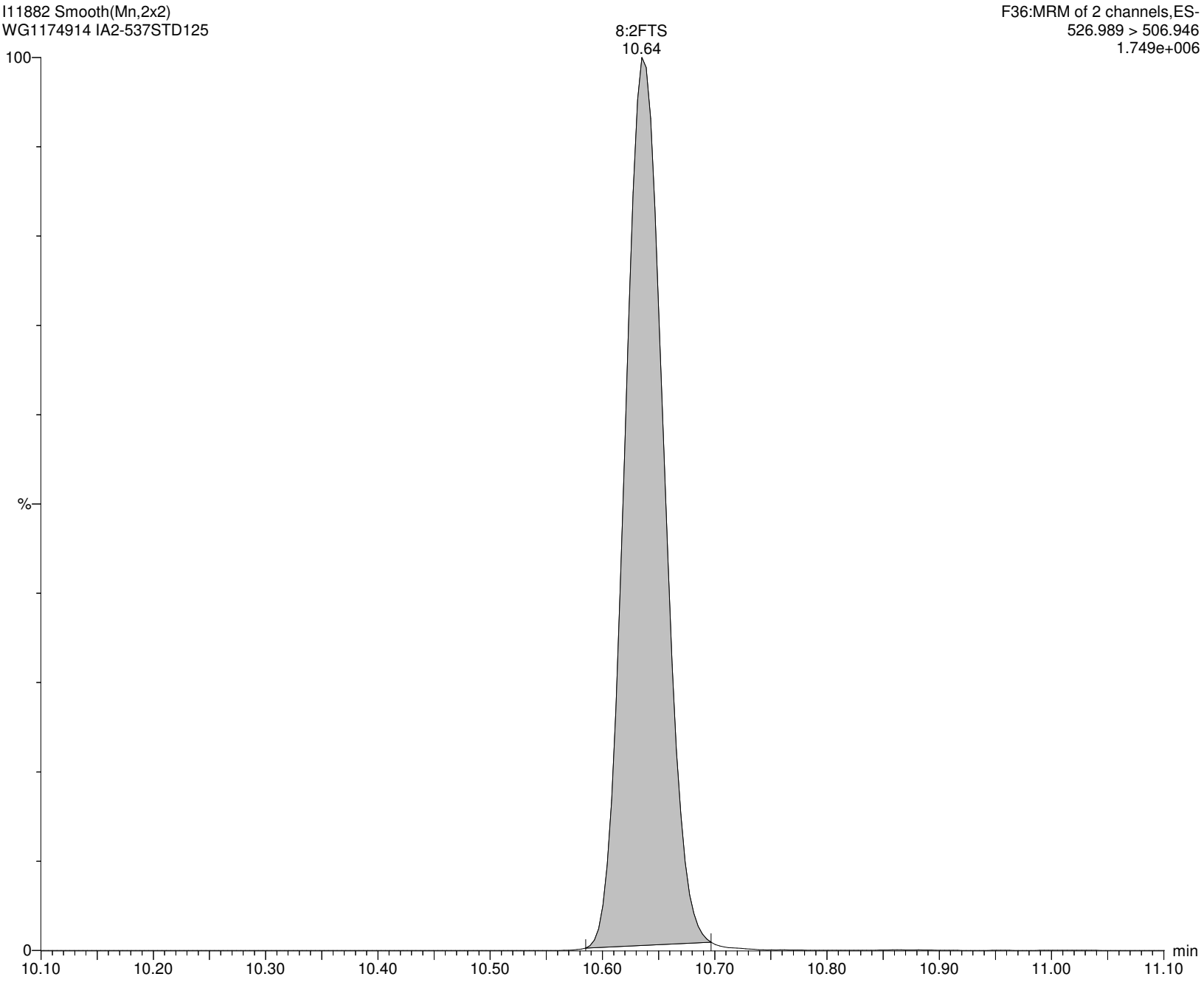
8:2FTS



all concentration units in (ng/mL)

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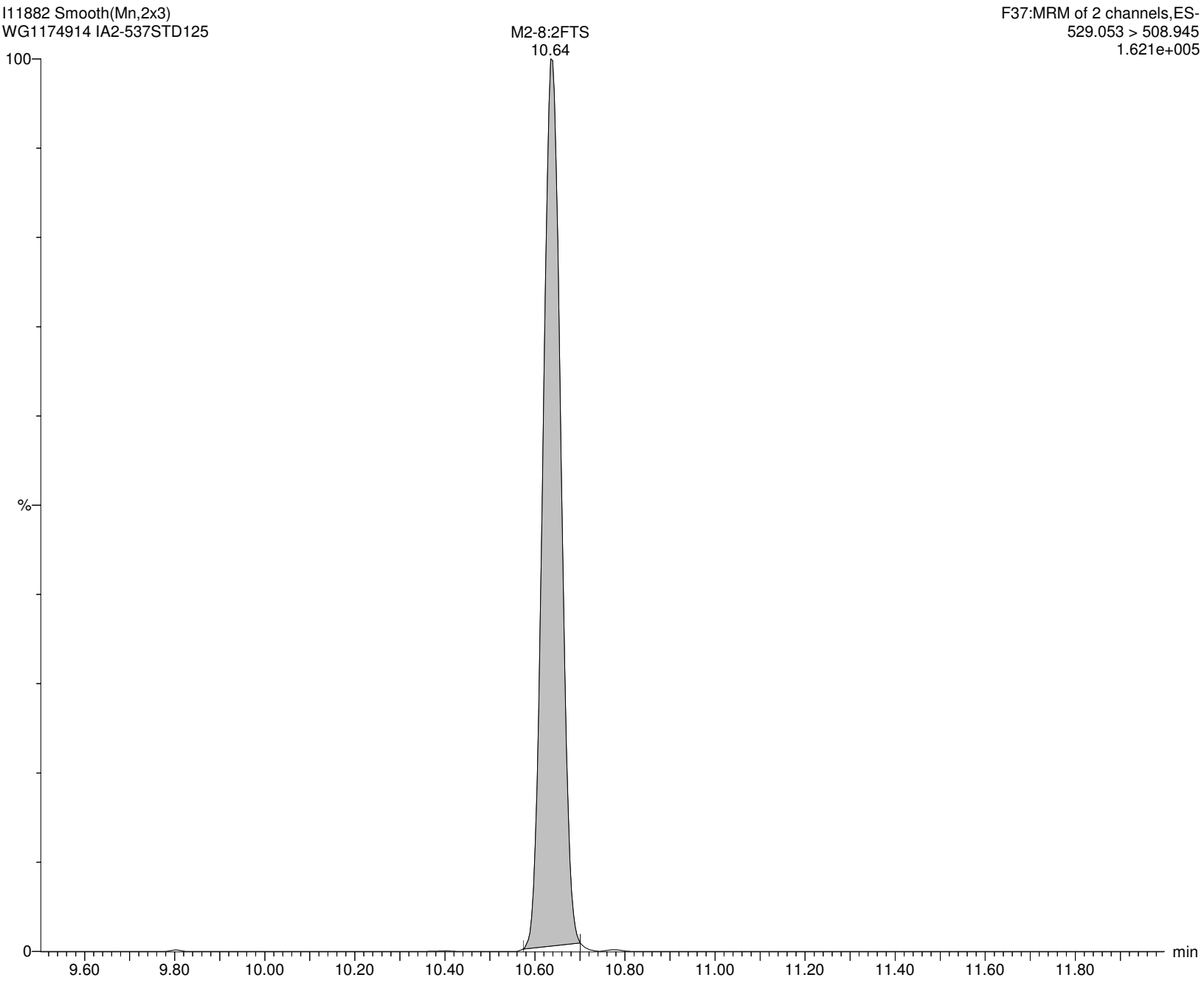

all concentration units in (ng/mL)

Alpha Analytical Inc.
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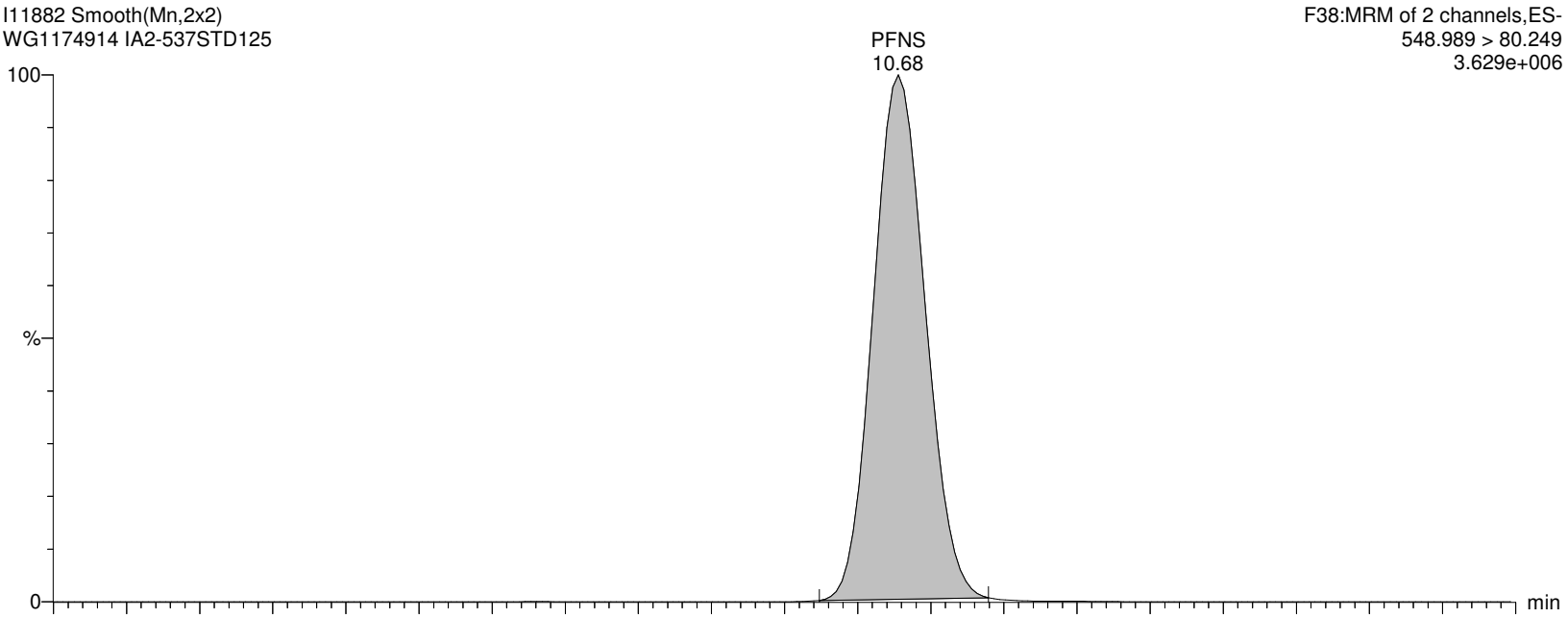

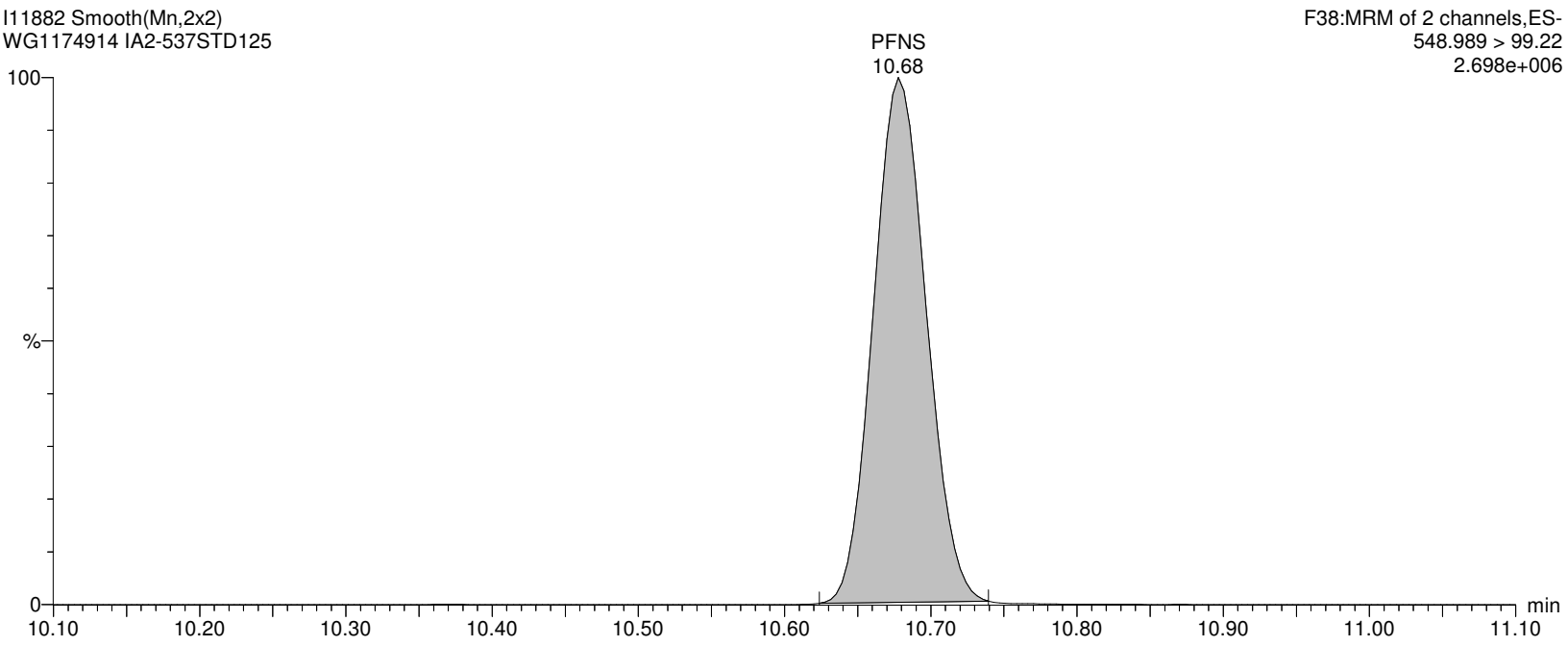

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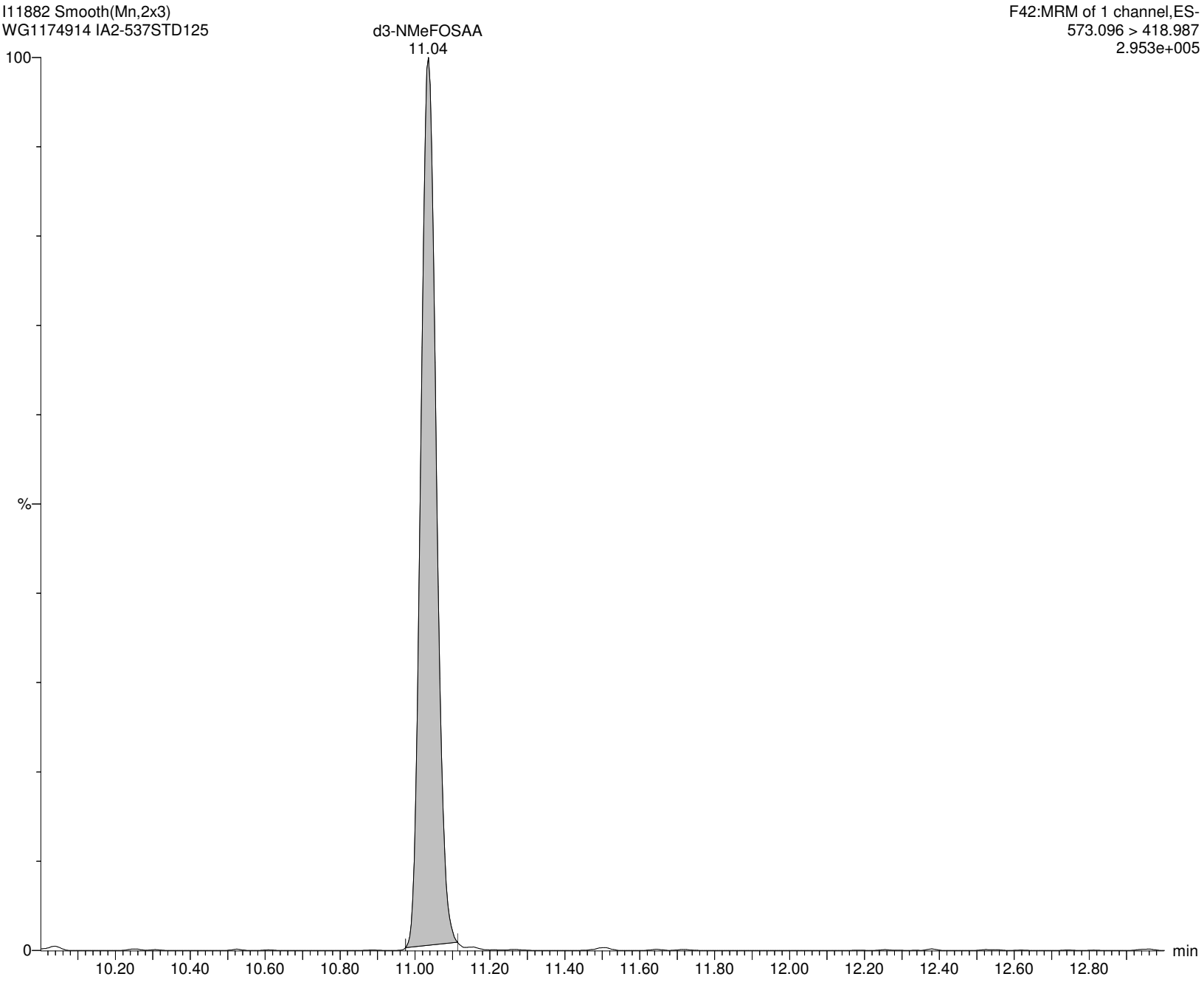
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:24 Eastern Daylight Time

Name: I11882
ID: IA2-537STD125
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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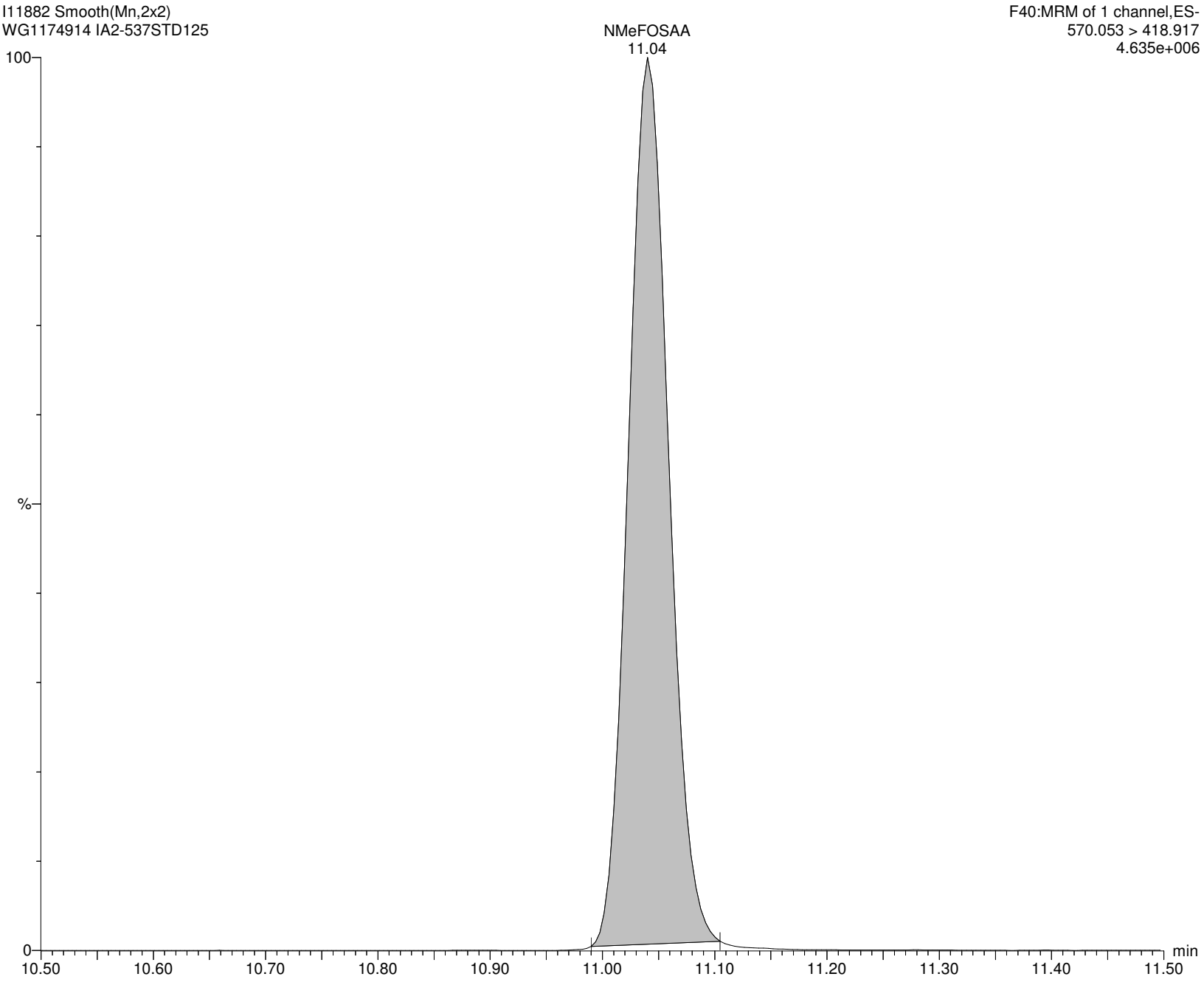

all concentration units in (ng/mL)

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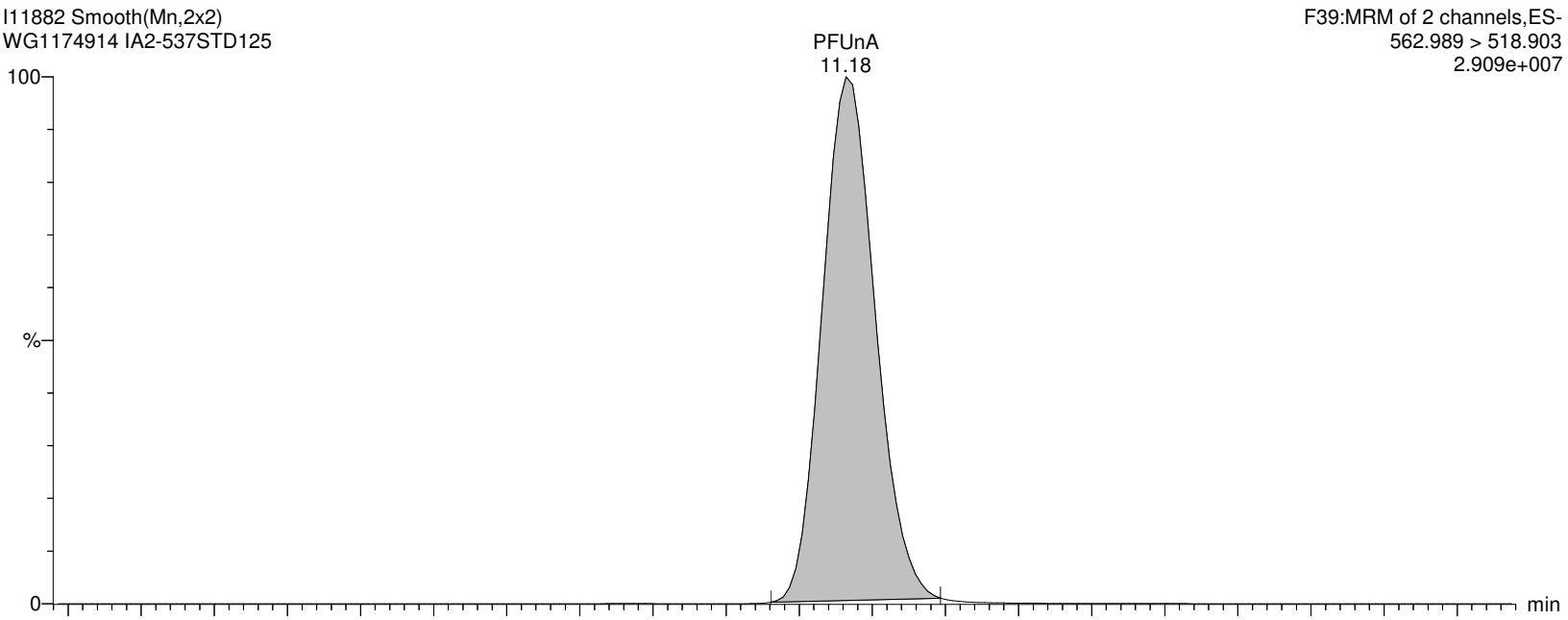

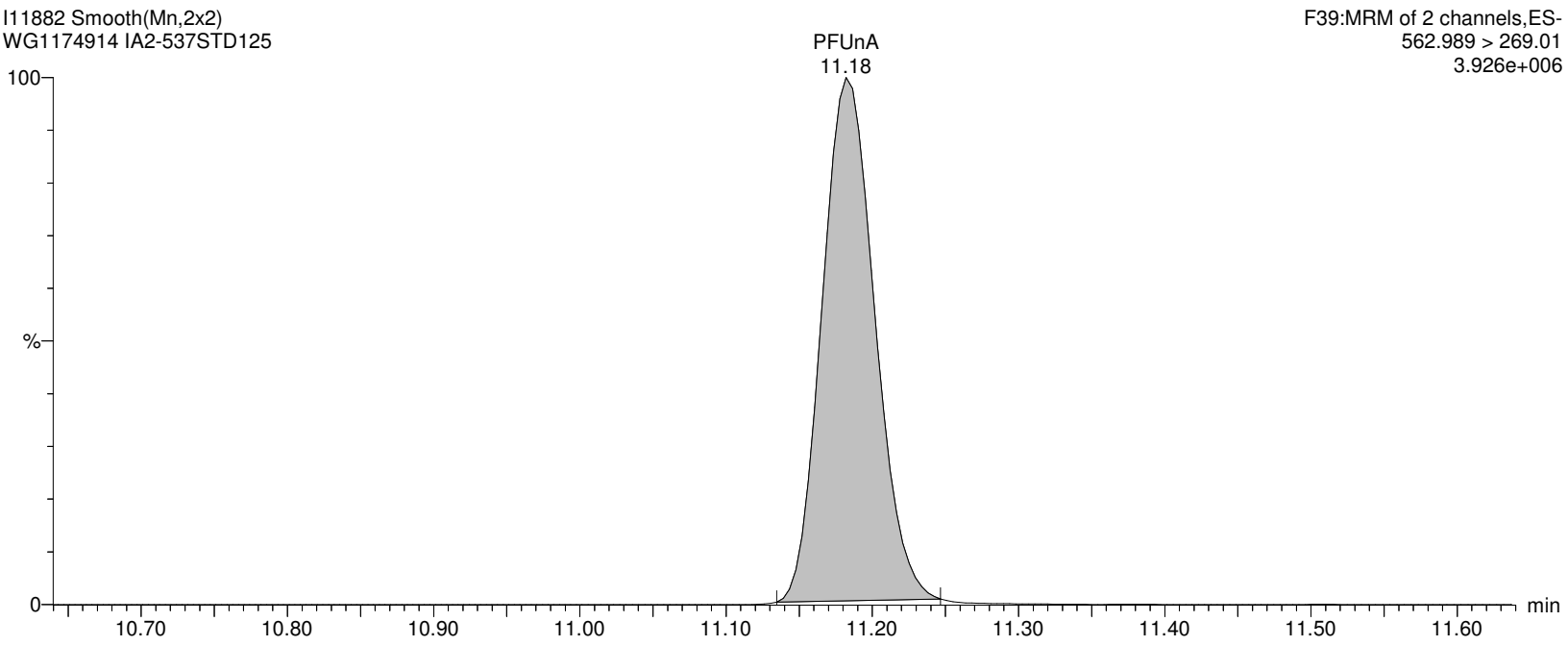

all concentration units in (ng/mL)

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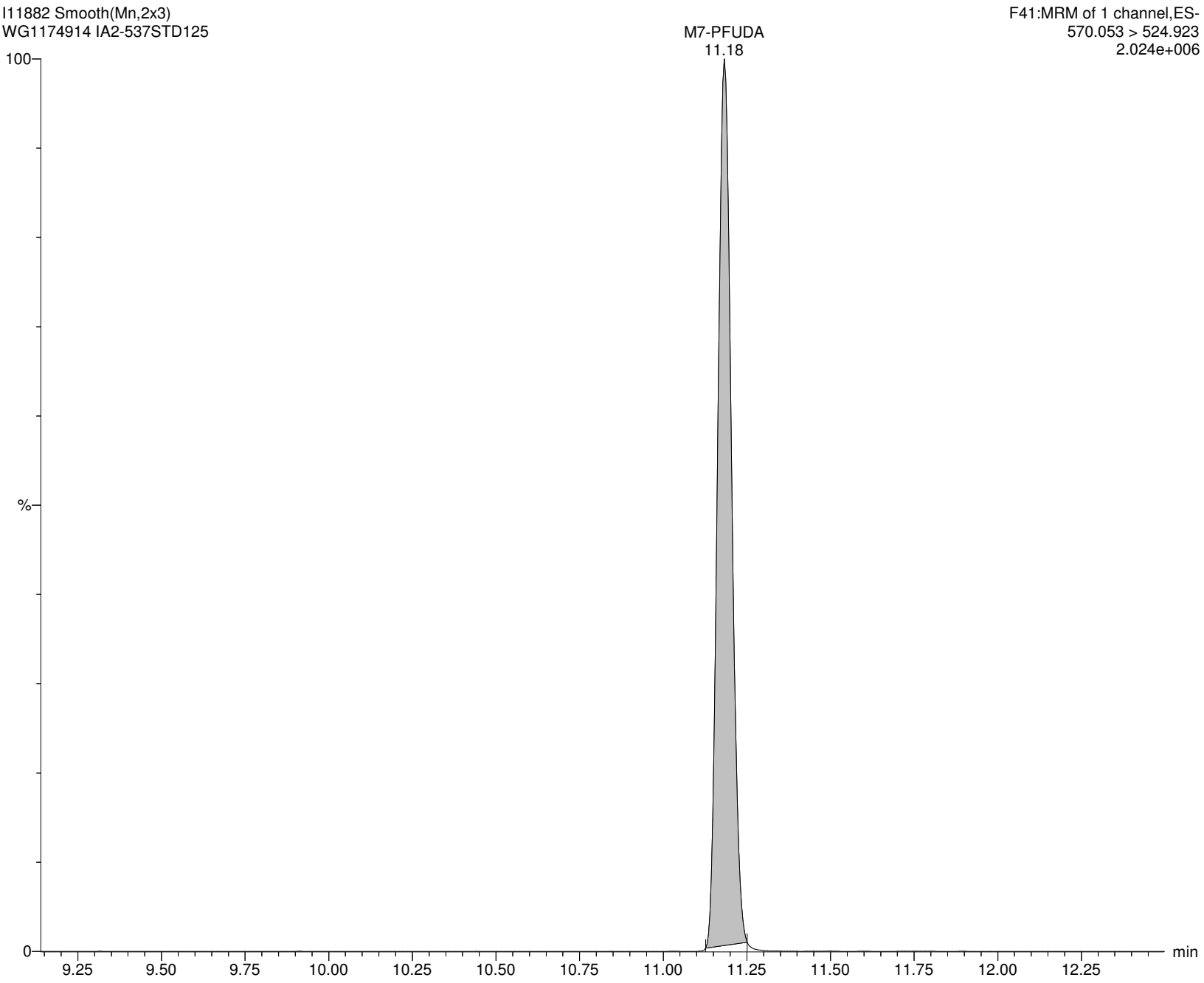

all concentration units in (ng/mL)

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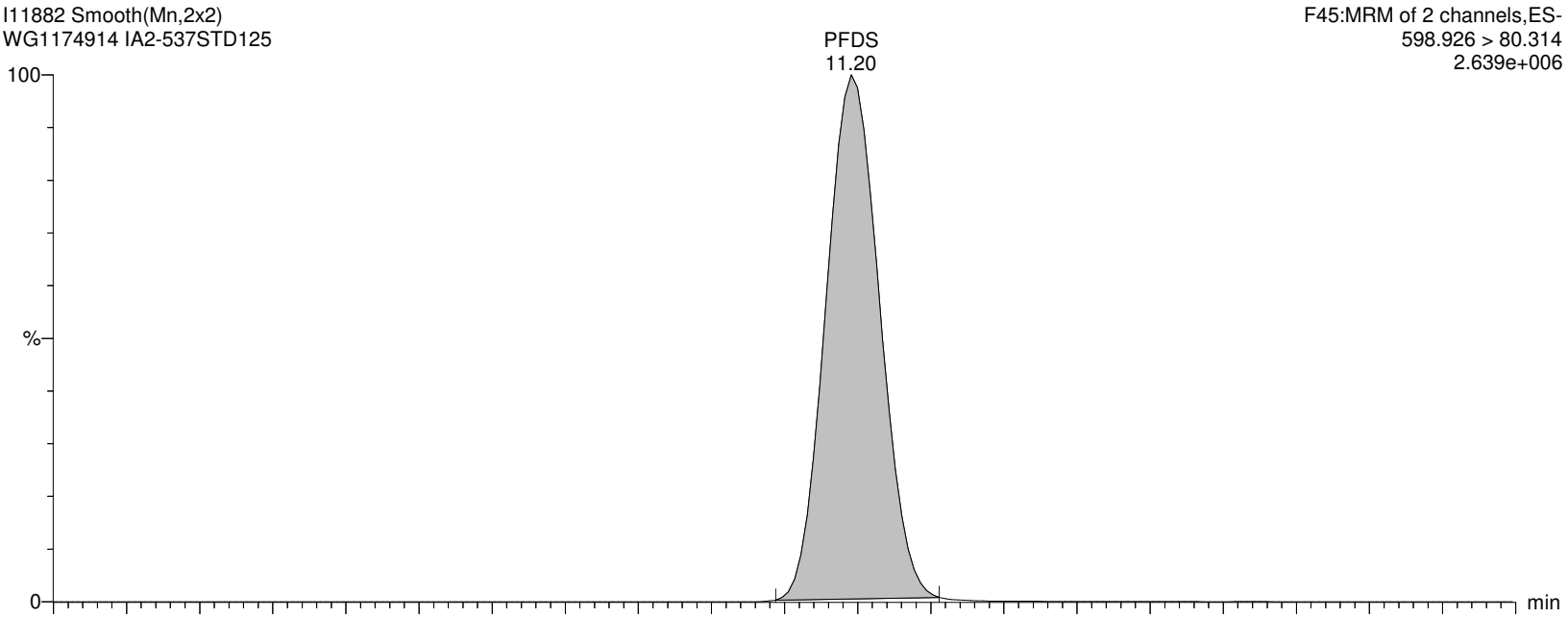

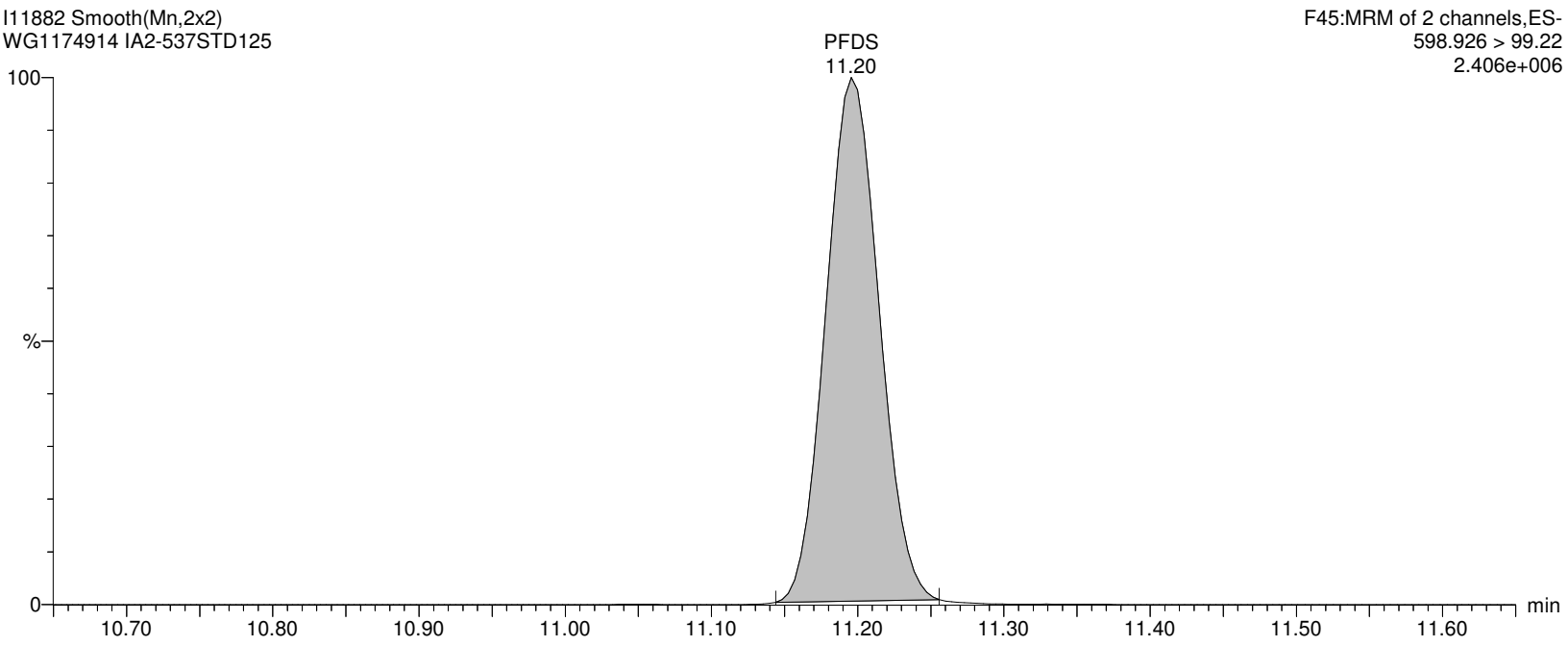

all concentration units in (ng/mL)

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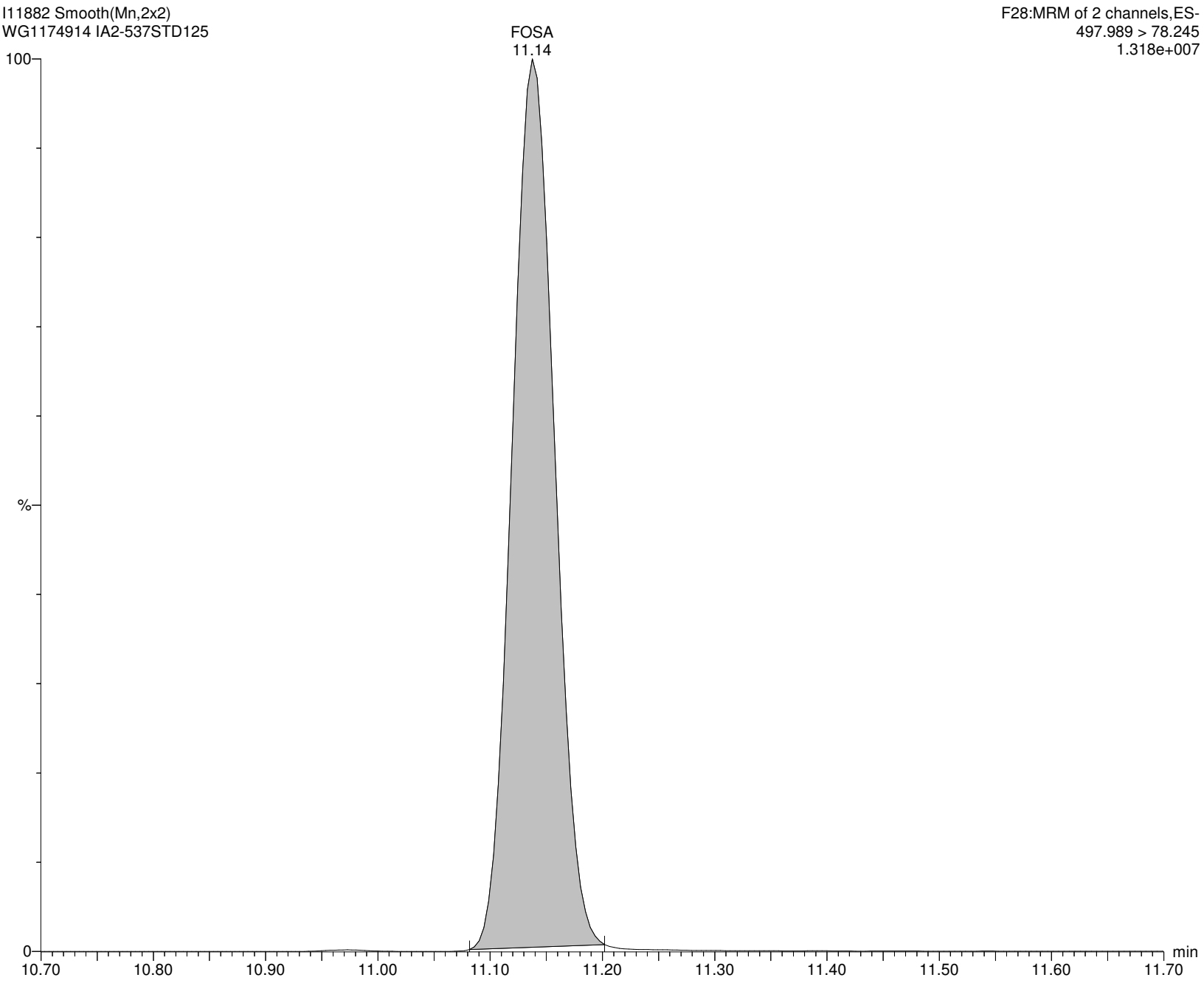

all concentration units in (ng/mL)

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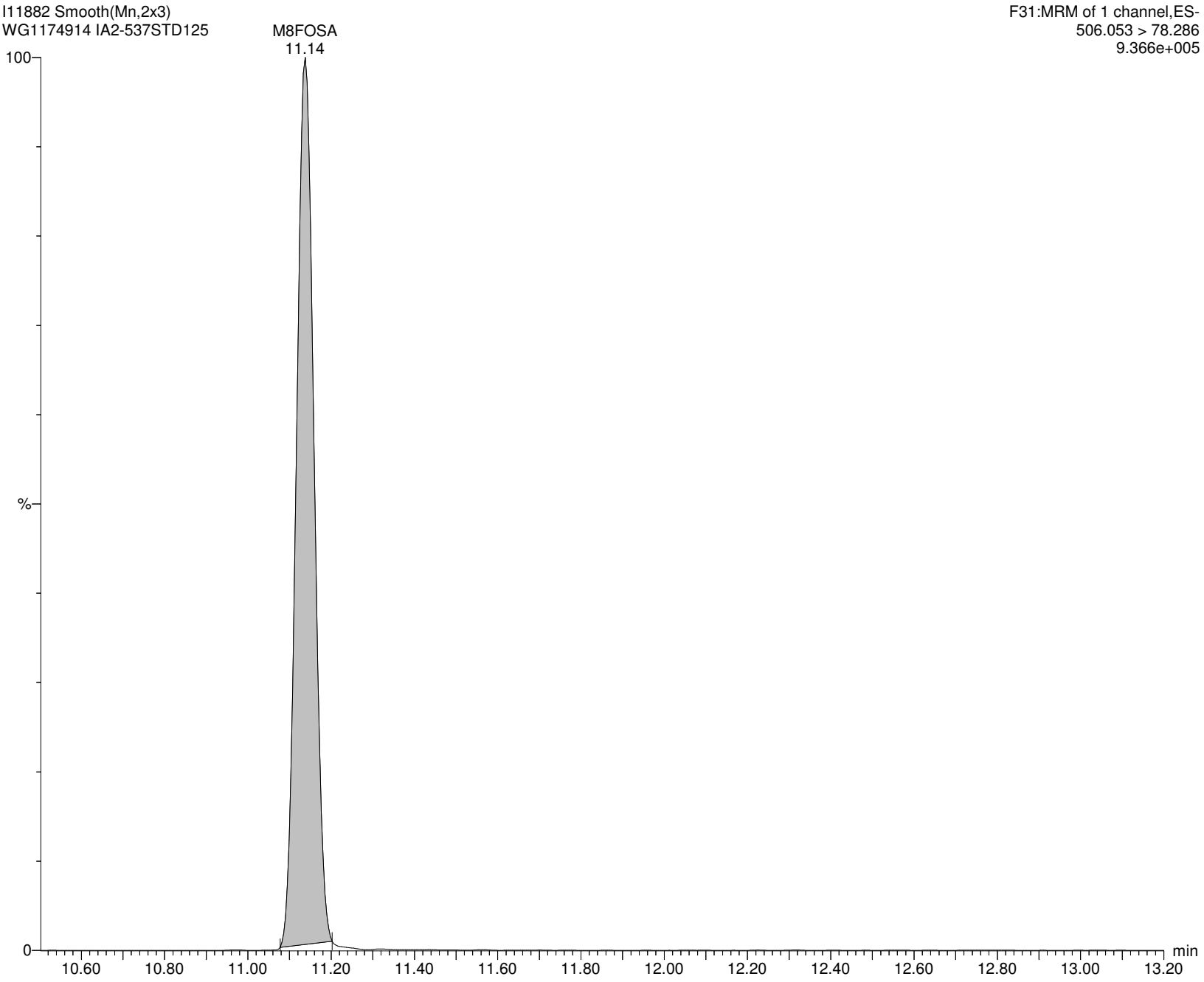

all concentration units in (ng/mL)

Alpha Analytical Inc.
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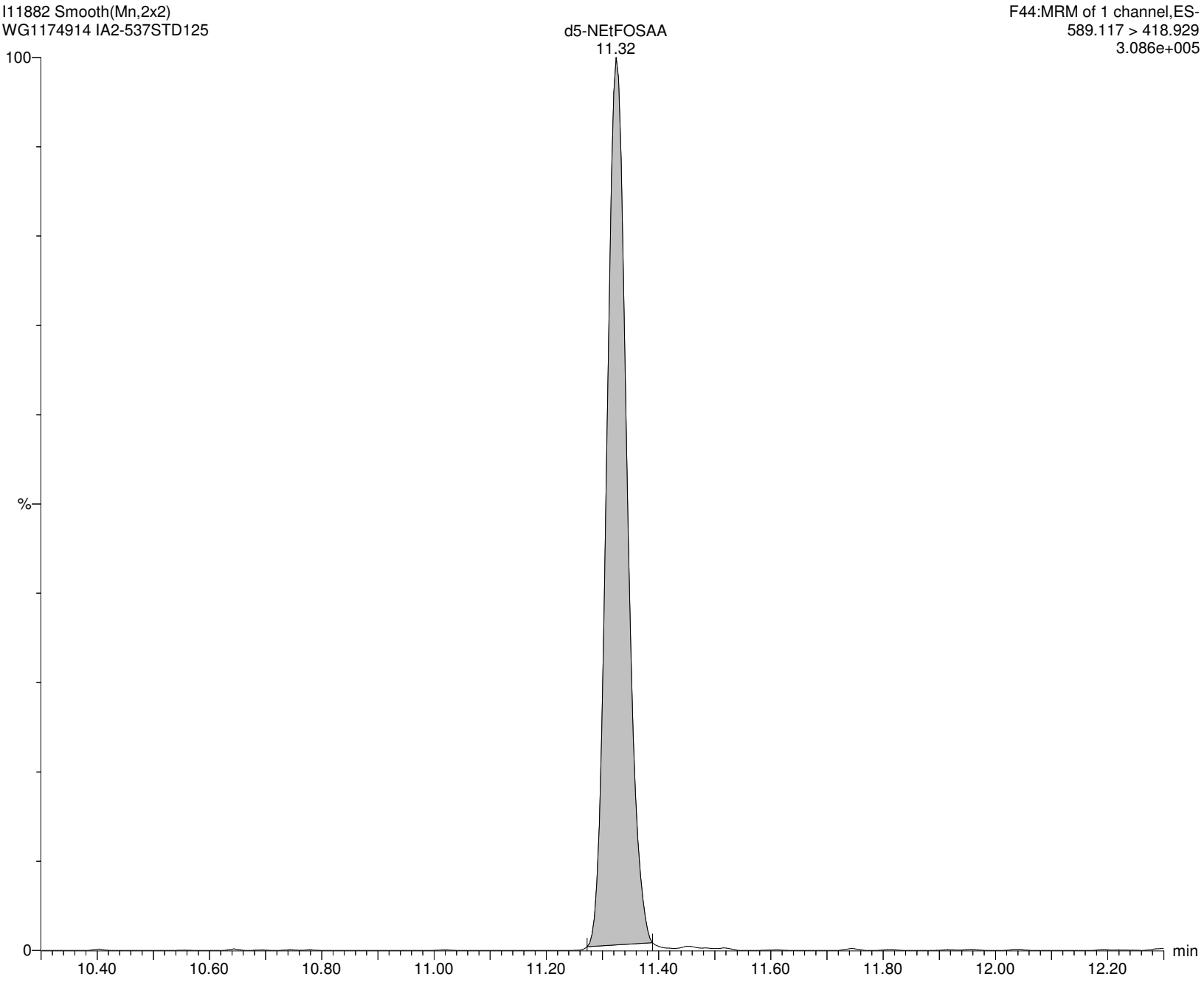

all concentration units in (ng/mL)

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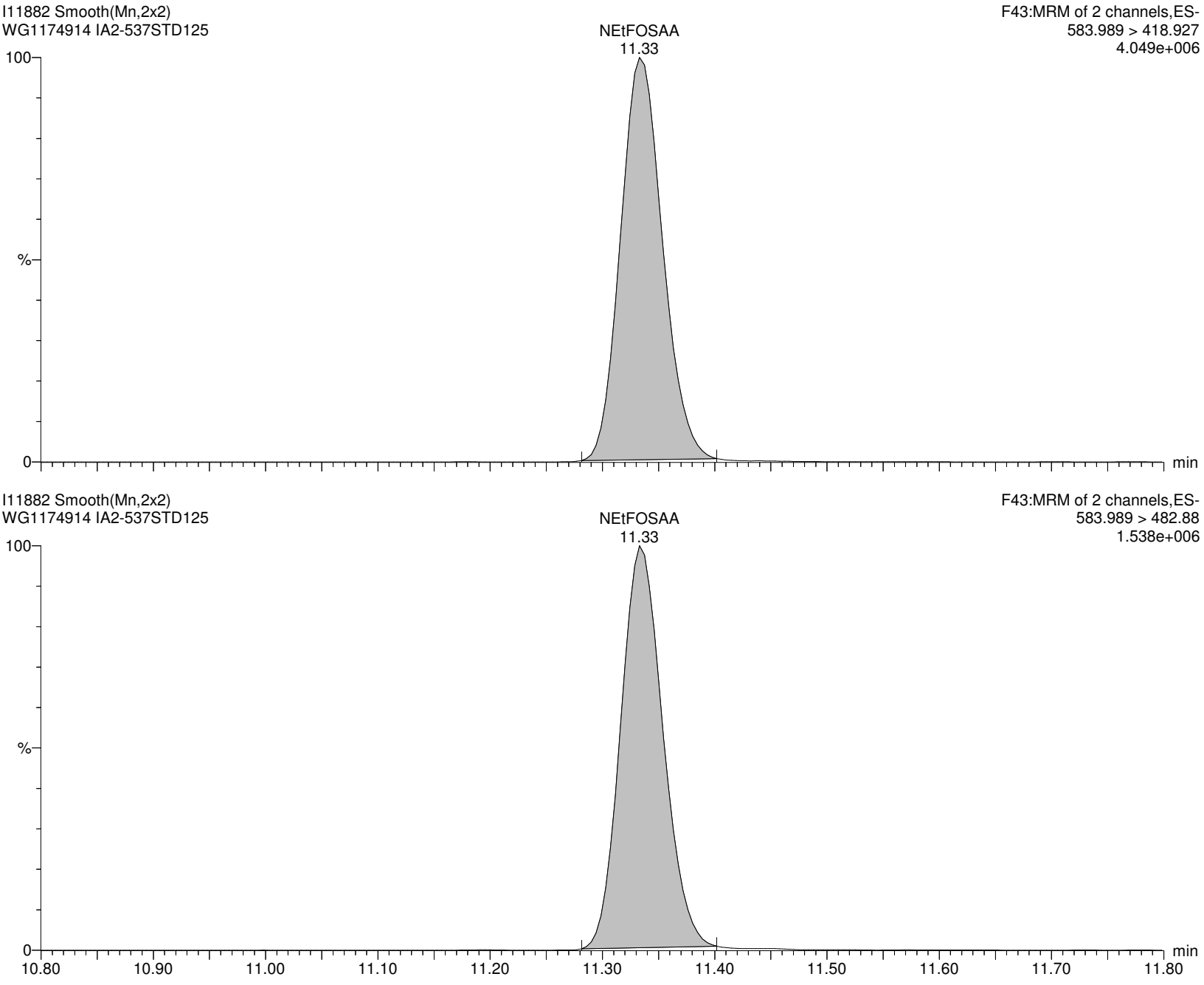

all concentration units in (ng/mL)

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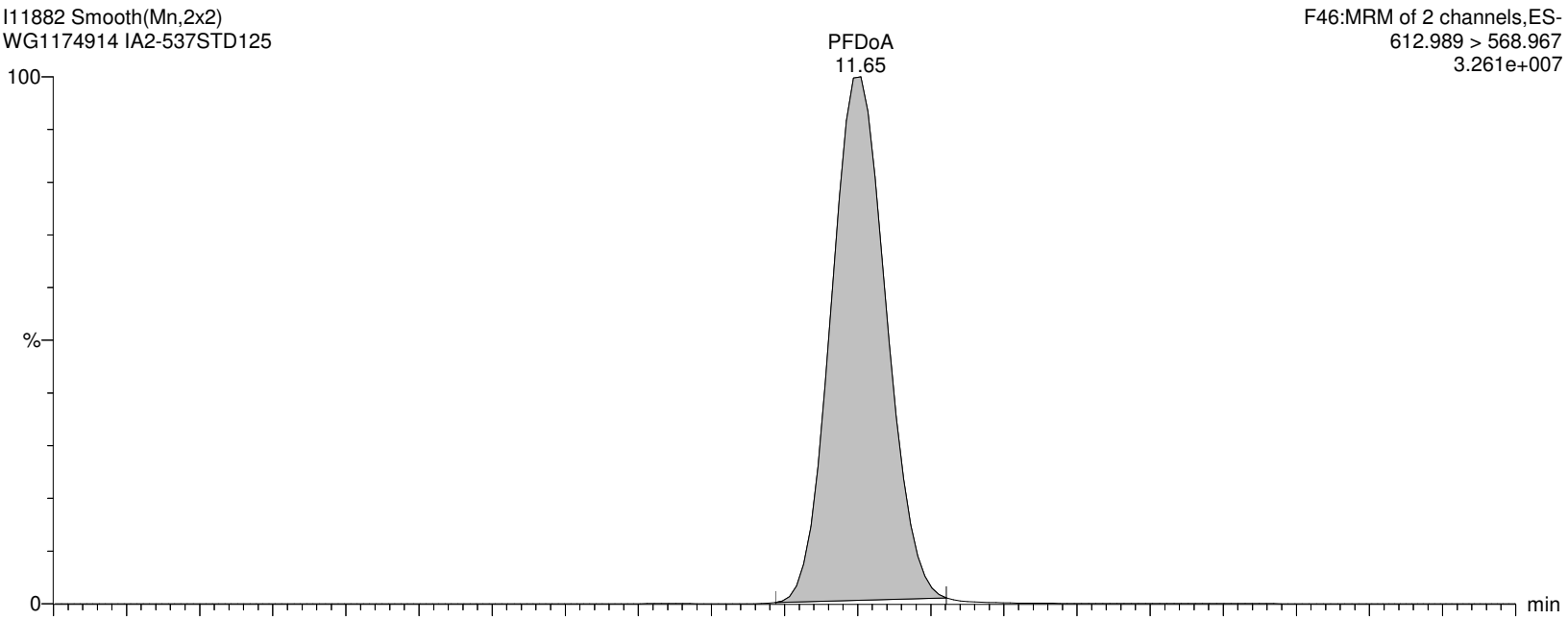

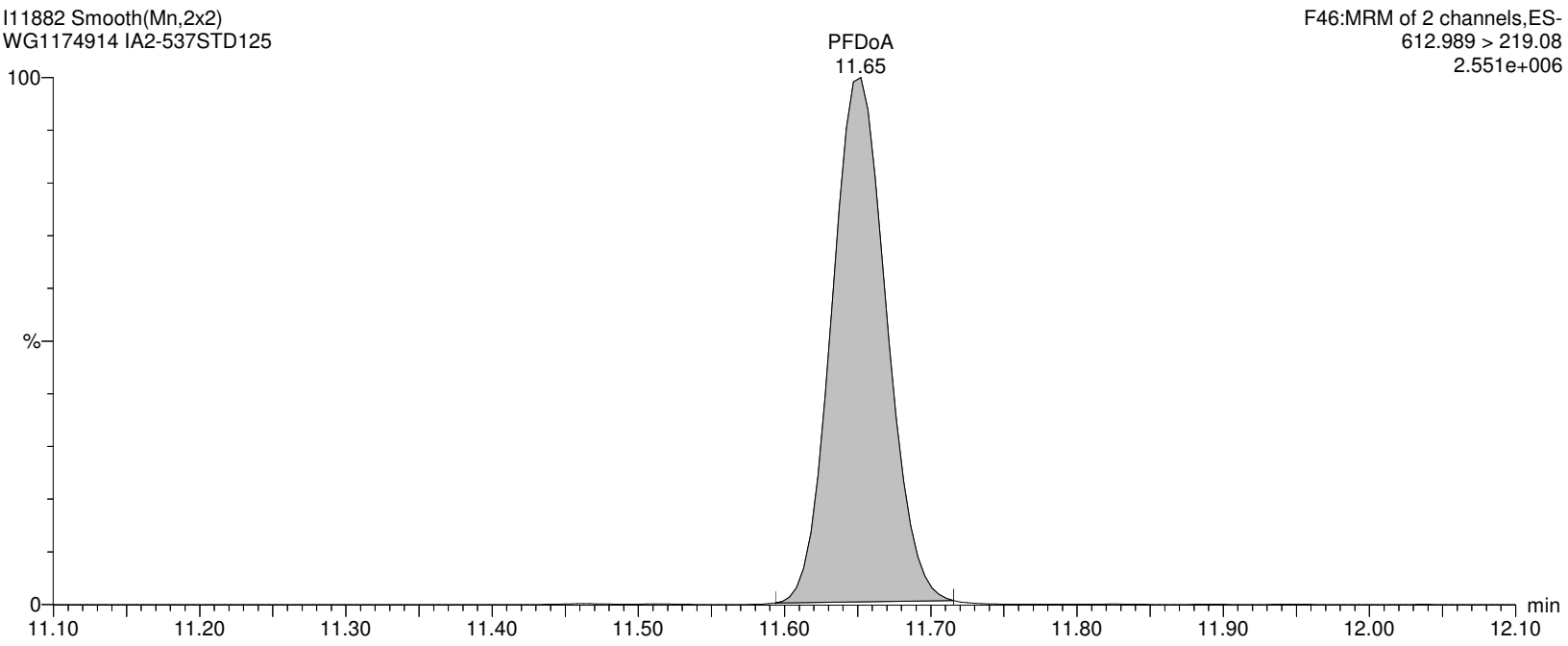

all concentration units in (ng/mL)

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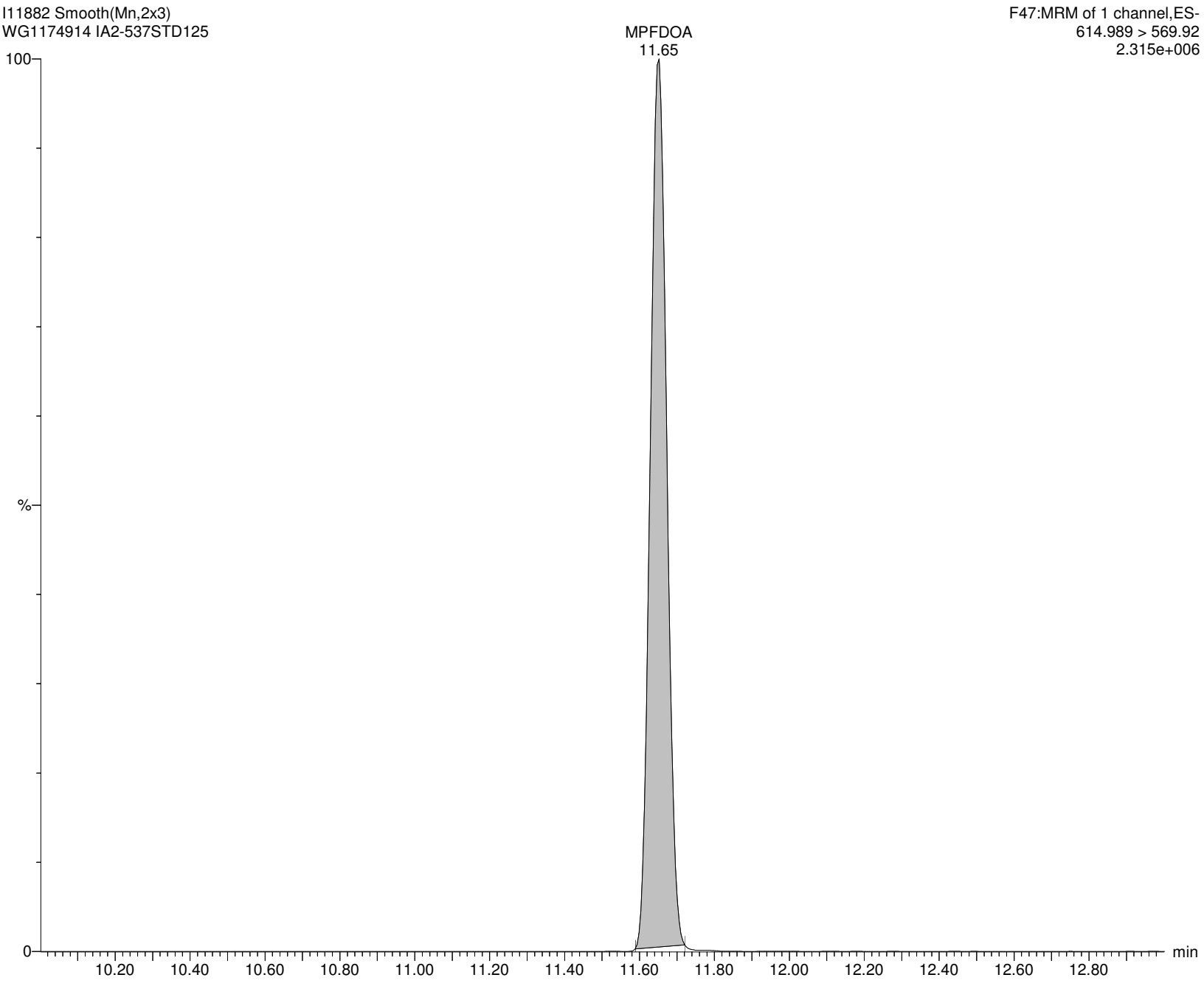

all concentration units in (ng/mL)

Alpha Analytical Inc.
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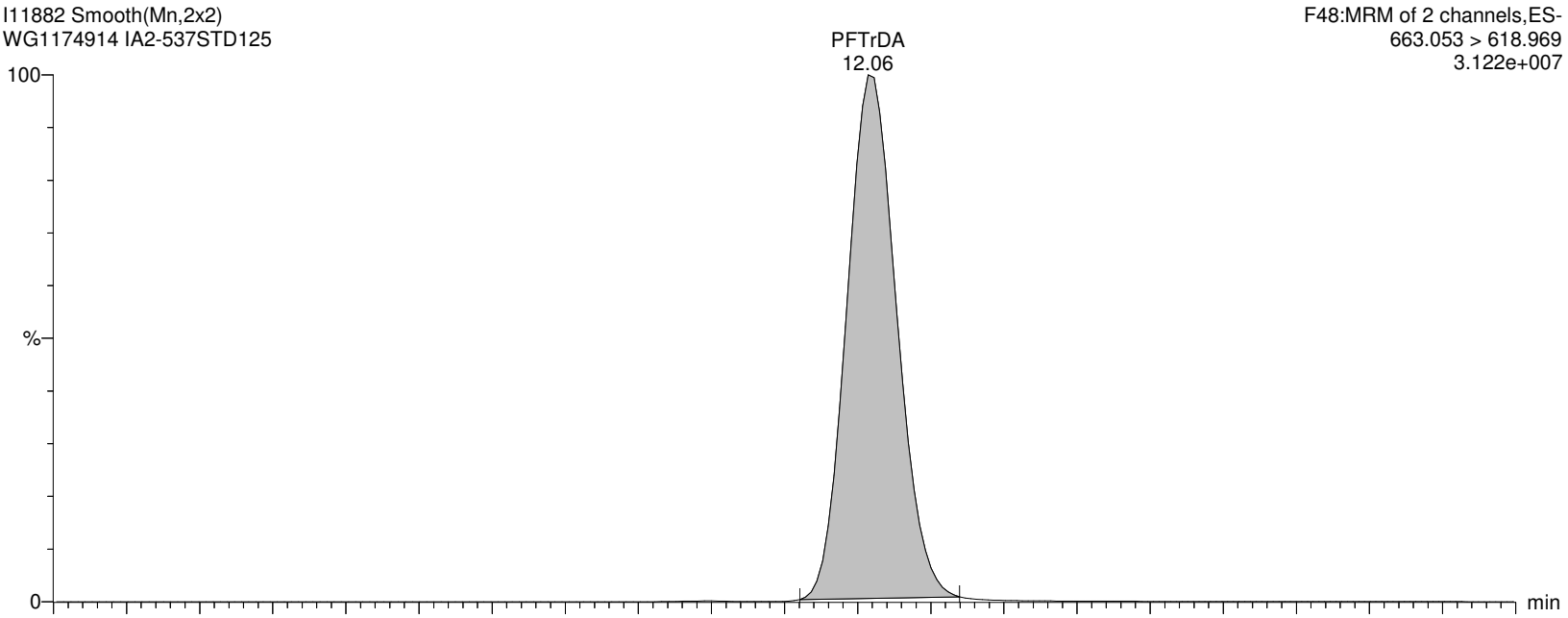

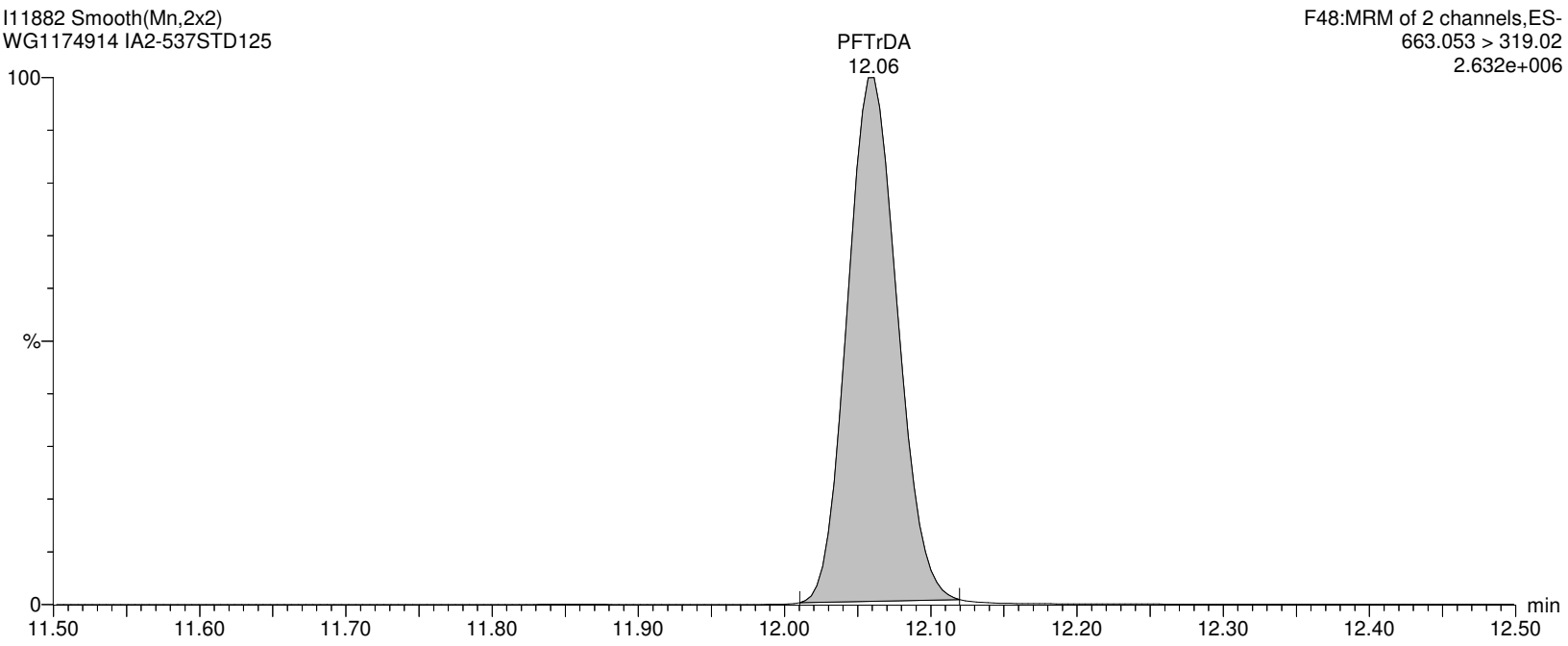

all concentration units in (ng/mL)

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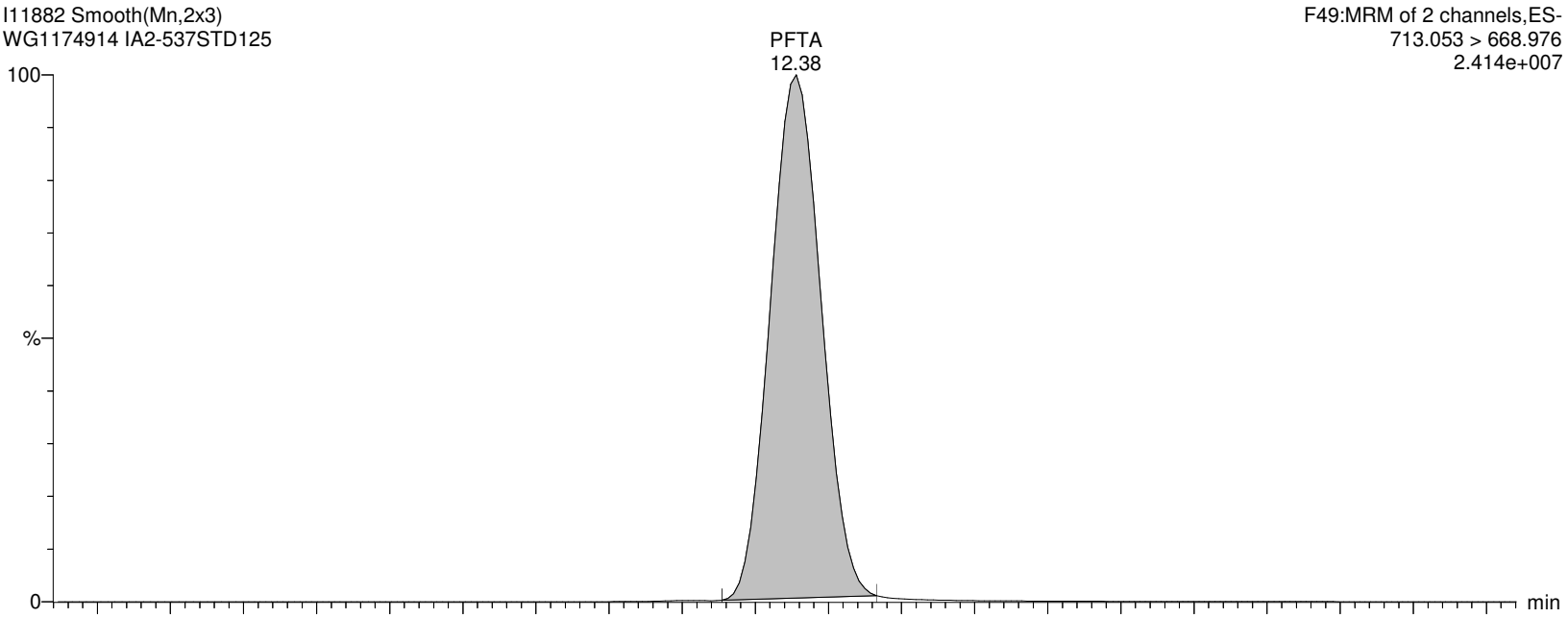

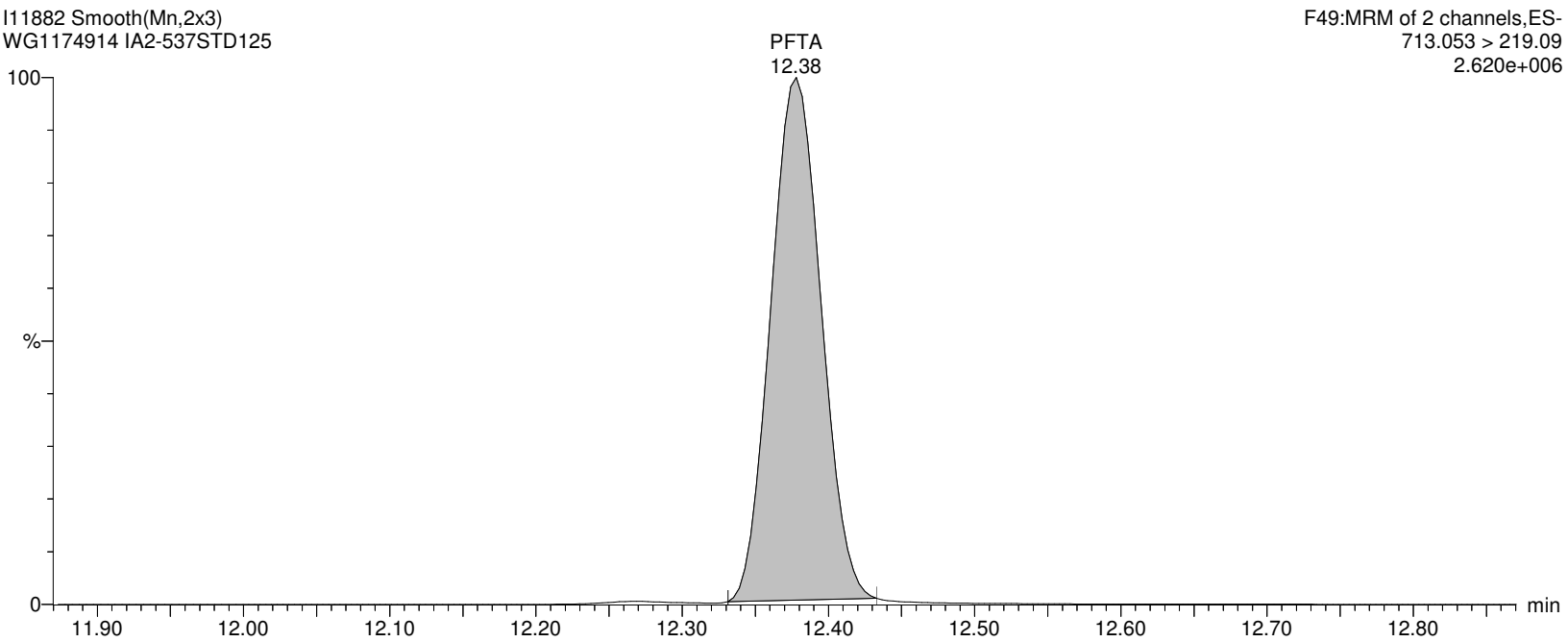

all concentration units in (ng/mL)

Alpha Analytical Inc.
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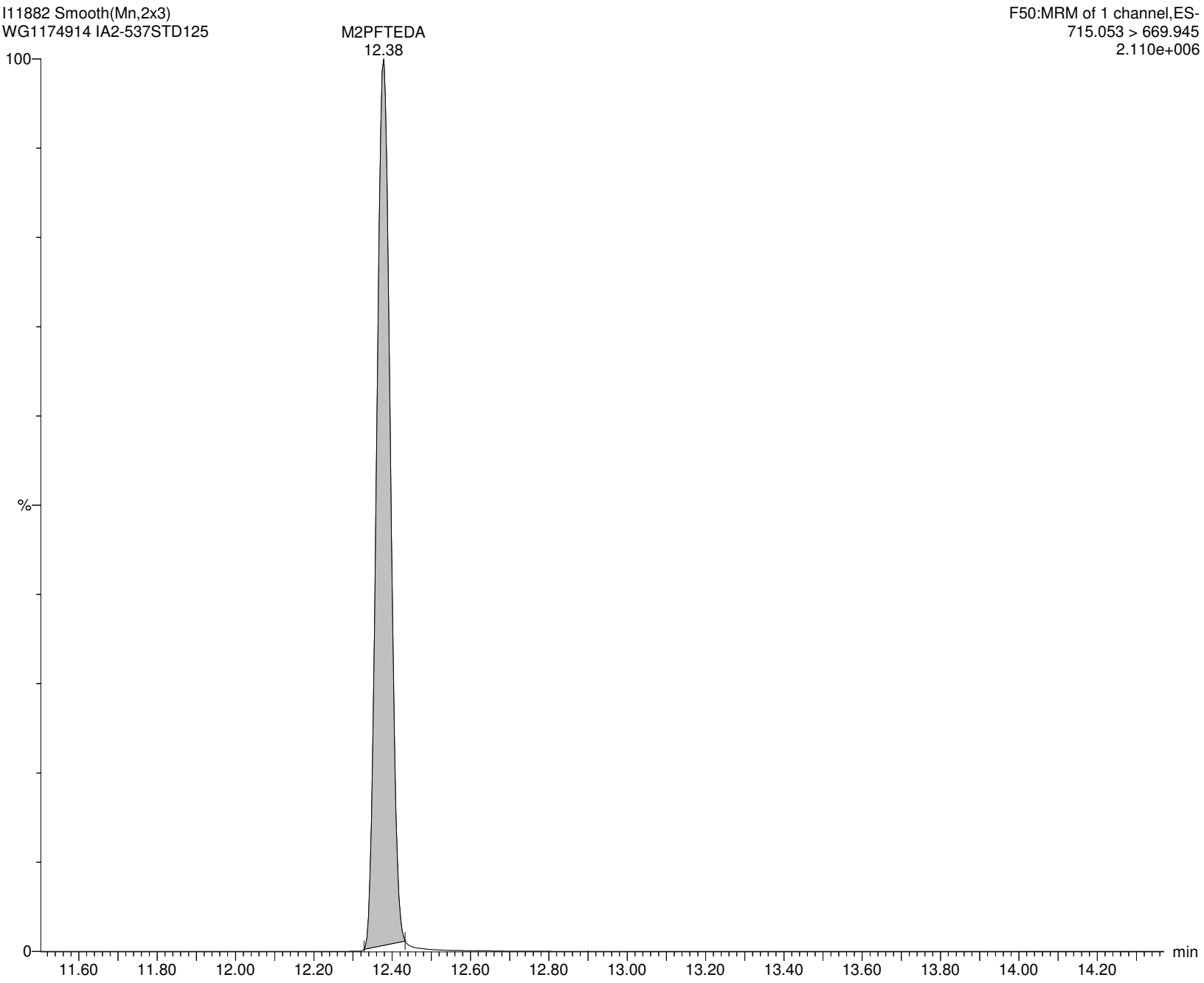

all concentration units in (ng/mL)

Alpha Analytical Inc.
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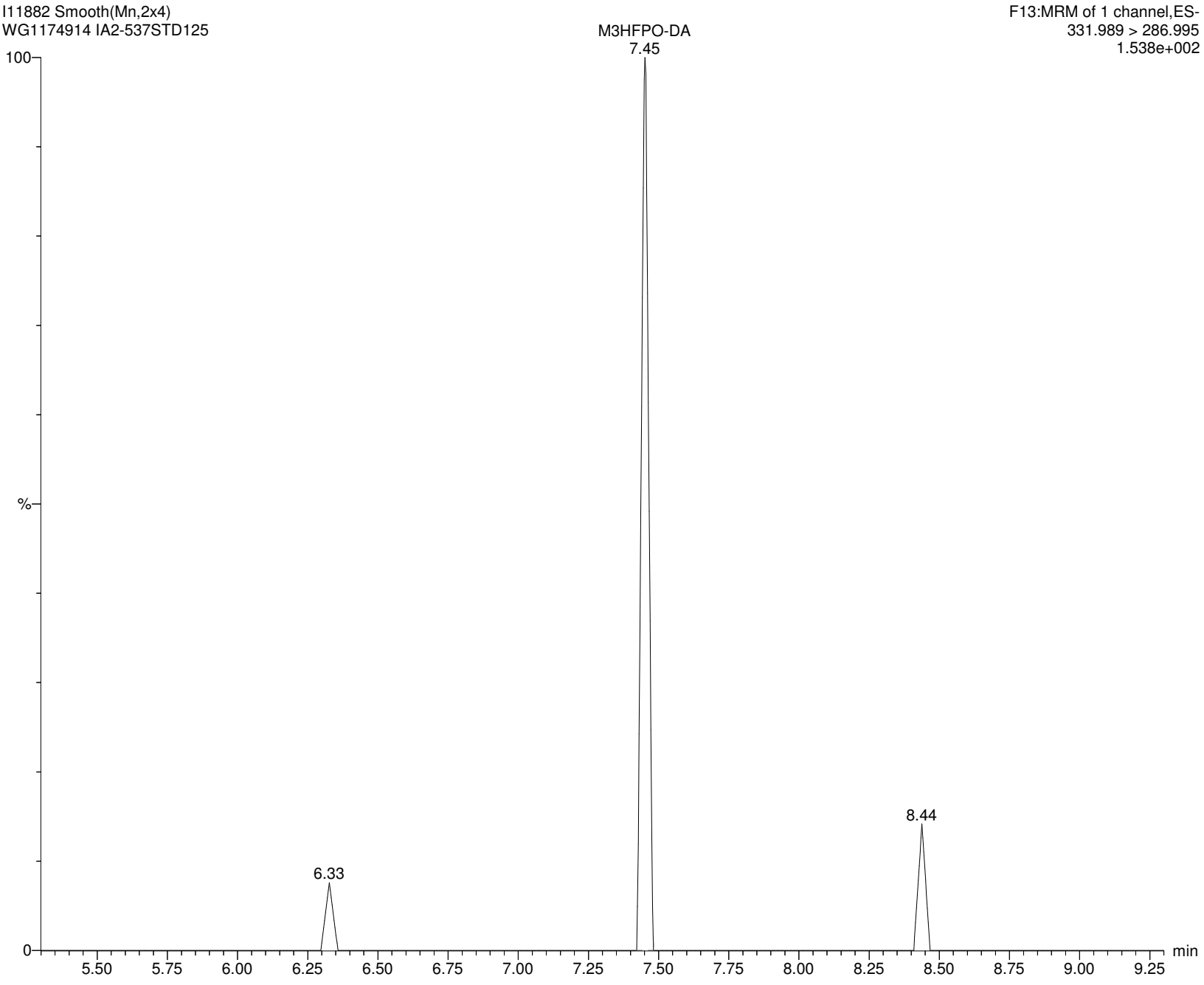

all concentration units in (ng/mL)

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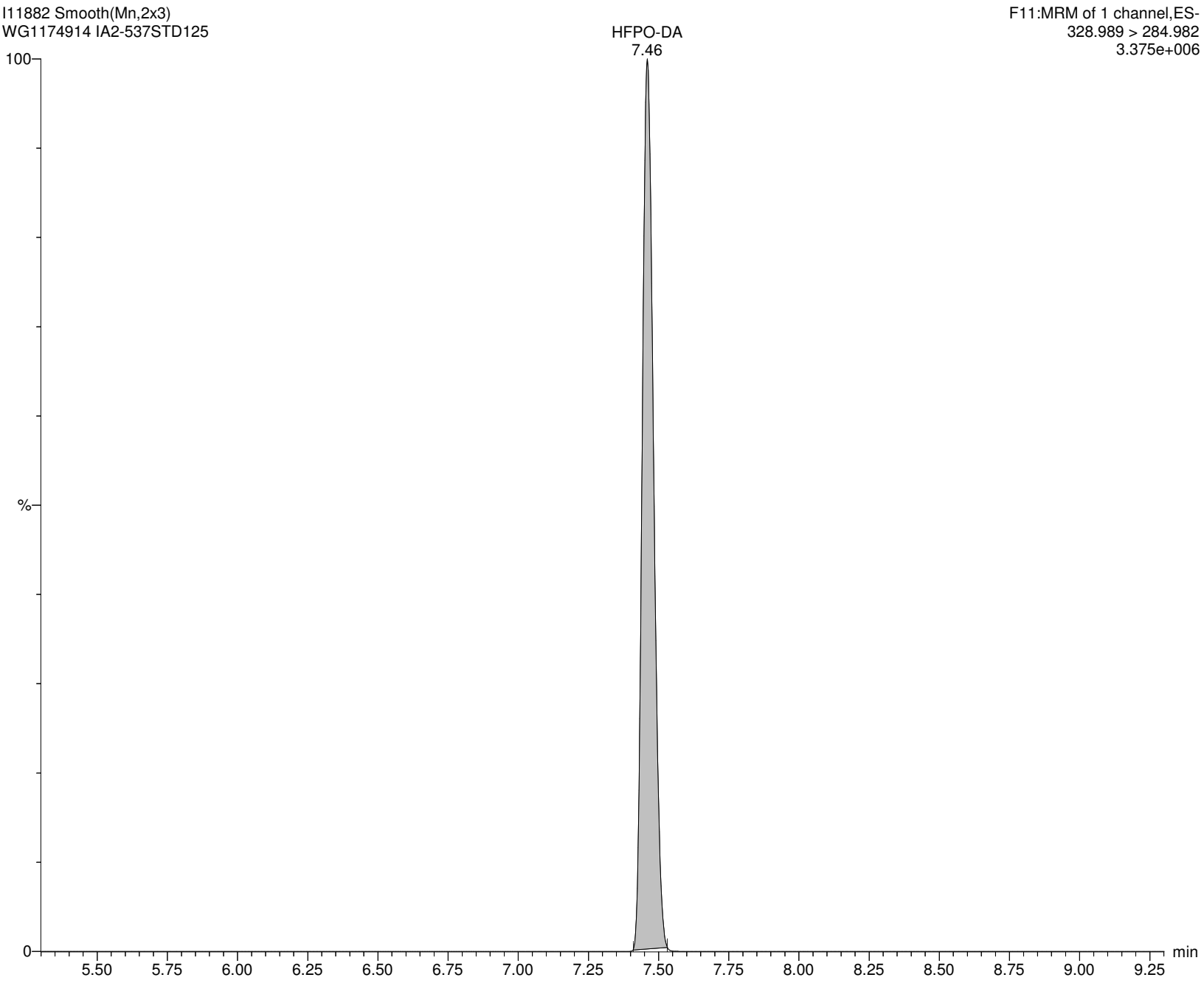

all concentration units in (ng/mL)

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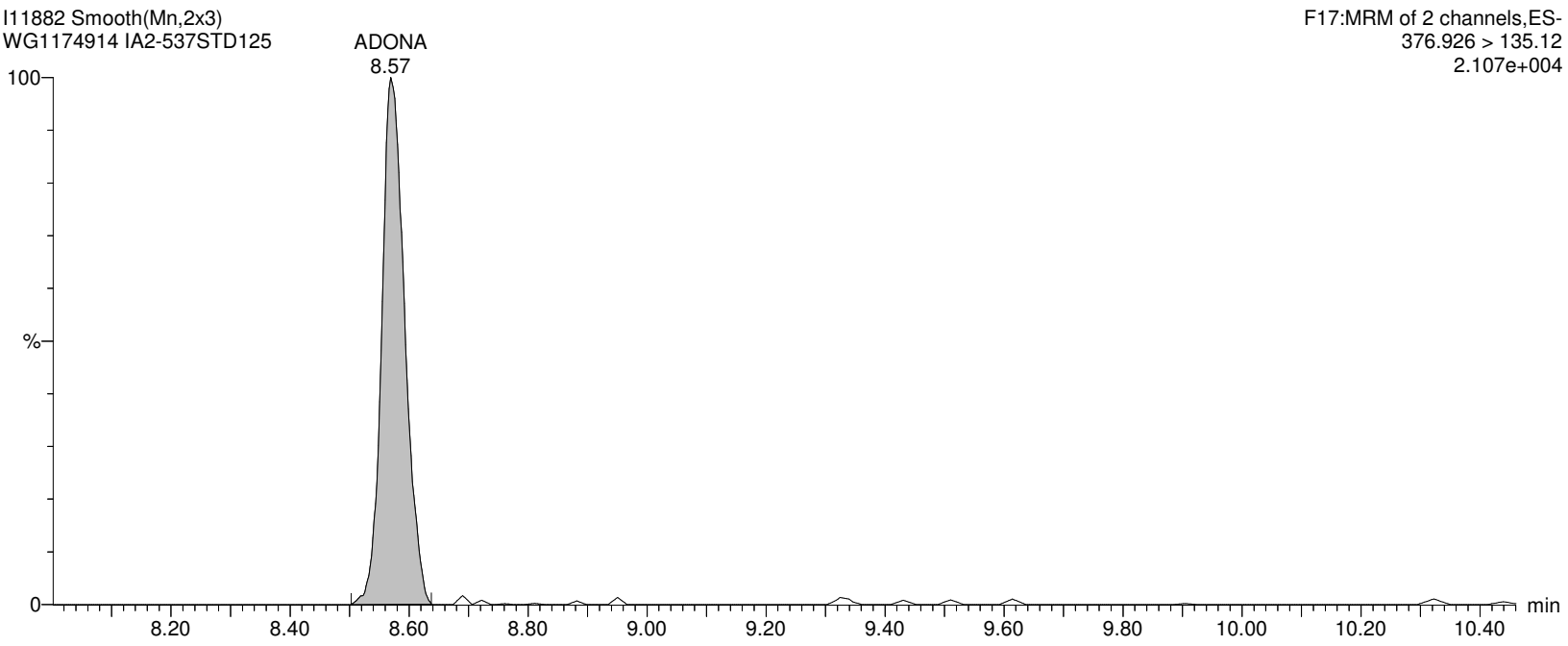

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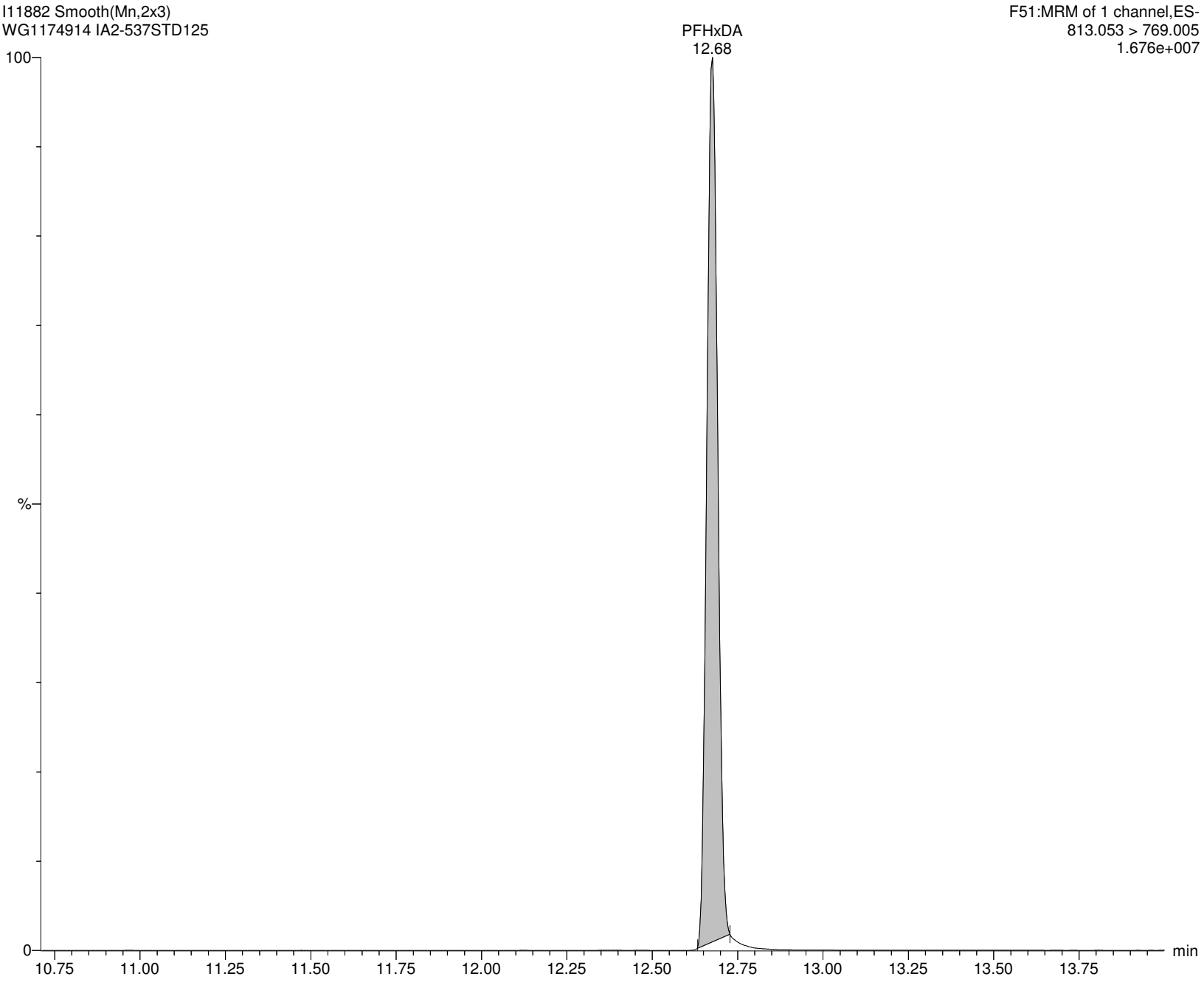
PFHxDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:24 Eastern Daylight Time

Name: I11882
ID: IA2-537STD125
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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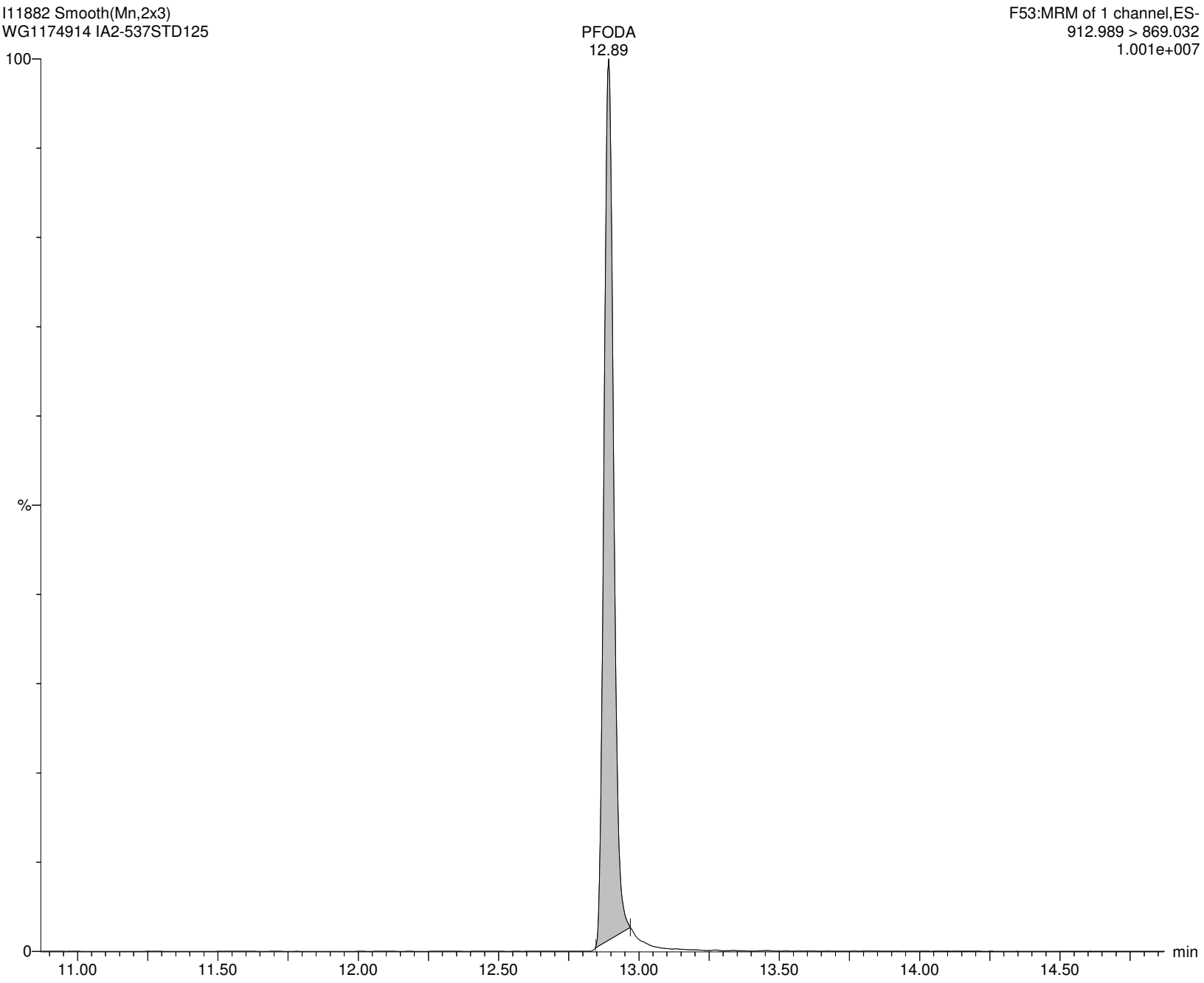

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, November 01, 2018 20:30:24 Eastern Daylight Time

Name: I11882
ID: IA2-537STD125
Date: 01-Nov-2018
Time: 18:08:34
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,7
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Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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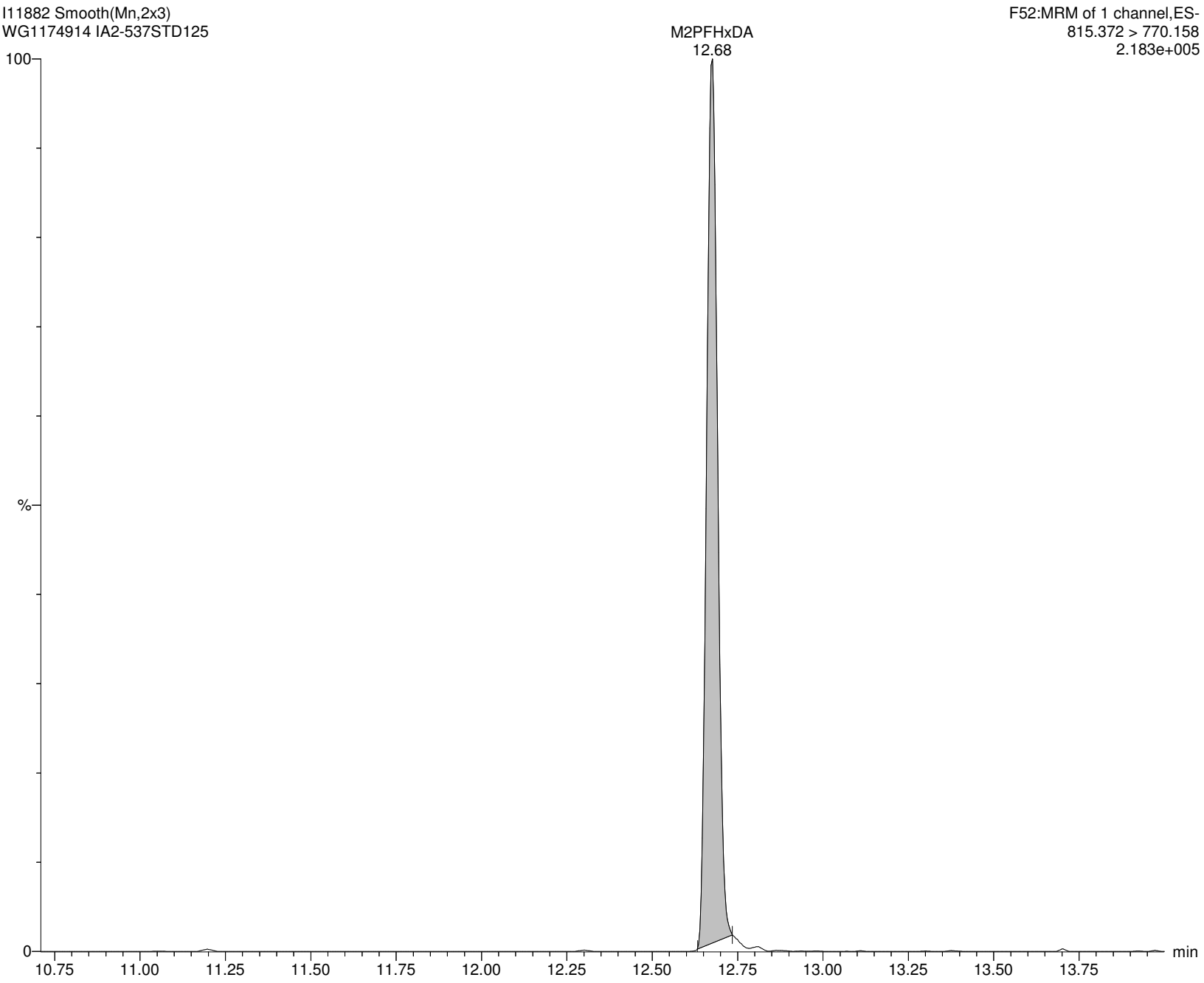
M2PFHxDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

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ID: IA2-537STD150
Name: I11883
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	1118317		150.421		na	100.3
2	M3PFBA	INT STD	2.12	215.926 > 172.122	89167		9.633		na	96.3
3	MPFBA	INT STD	2.12	216.926 > 172.137	85051		10.042		na	100.4
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	1504892		150.523		na	100.3
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	106081		9.705		na	97.1
6	PFBS	375-73-5	5.77	298.989 > 80.295	221474		133.893		na	100.9
7	M3PFBS	INT STD	5.77	301.989 > 80.254	18658		10.021		na	100.2
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	145410		143.429	1.98	YES	102.3
9	M2-4:2FTS	INT STD	6.96	329.117 > 309.079	17148		14.848		na	148.5
10	PFHxA	307-24-4	7.04	312.989 > 269.028	1830316		152.037	19.21	NO	101.4
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	124050		9.927		na	99.3
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	236223		127.194	2.04	NO	90.2
13	PFHpA	375-85-9	8.33	362.926 > 319.014	2161570		149.385	5.22	NO	99.6
14	M4PFHpA	INT STD	8.33	366.926 > 321.979	146981		10.003		na	100.0
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	41588		23.808	1.92	NO	93.4
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	161735		106.853	1.36	NO	96.3
17	PFHxS	355-46-4		398.926 > 80.295	203323		130.661		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	10734		10.379		na	103.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	2042821		147.844	8.94	NO	98.6
21	M2PFOA	INT STD	9.28	415.032 > 369.968	173456		9.187		na	91.9
22	PFOA	335-67-1		412.989 > 368.9	2042821		147.844		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	141625		10.125		na	101.2
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	117460		142.862	1.02	NO	100.3
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	13845		14.441		na	144.4
26	PFHpS	375-92-8	9.37	448.926 > 80.257	125475		148.607	0.92	YES	104.3
27	PFNA	375-95-1	10.02	462.989 > 418.931	1733329		149.923	4.19	NO	99.9
28	M9PFNA	INT STD	10.02	472.053 > 426.947	138426		9.922		na	99.2
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	61776		30.907	3.97	YES	103.0
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	159646		112.083	1.70	YES	102.4
31	PFOS	1763-23-1		498.989 > 80.294	221422		142.990		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	14936		9.220		na	92.2
33	M8PFOS	INT STD	10.07	507.053 > 80.294	13637		9.791		na	97.9
34	PFDA	335-76-2	10.64	513.053 > 468.906	1526794		147.263	5.97	NO	98.2
35	M2PFDA	INT STD	10.64	515.053 > 469.934	130429		8.773		na	87.7
36	M6PFDA	INT STD	10.64	519.053 > 473.931	116879		9.925		na	99.2
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	75596		148.256		na	103.0
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	7531		13.377		na	133.8
39	PFNS	68259-12-1	10.67	548.989 > 80.249	163624		149.248	1.32	NO	103.6

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

ID: IA2-537STD150
Name: I11883
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.02	573.096 > 418.987	14098		11.104		na	111.0
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	211307		149.012		na	99.3
42	PFUnA	2058-94-8	11.17	562.989 > 518.903	1386252		151.846	7.69	NO	101.2
43	M7-PFUDA	INT STD	11.17	570.053 > 524.923	91885		9.322		na	93.2
44	PFDS	335-77-3	11.19	598.926 > 80.314	123135		152.185	1.14	NO	105.1
45	FOSA	754-91-6	11.13	497.989 > 78.245	639453		150.528		na	100.4
46	M8FOSA	INT STD	11.13	506.053 > 78.286	43430		10.337		na	103.4
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	12958		10.581		na	105.8
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	201848		152.354	2.59	YES	101.6
49	PFDoA	307-55-1	11.64	612.989 > 568.967	1604988		153.265	13.06	NO	102.2
50	MPFDOA	INT STD	11.64	614.989 > 569.92	112301		10.140		na	101.4
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	1344929		152.726	11.77	NO	101.8
52	PFTA	376-06-7	12.37	713.053 > 668.976	1099096		156.711	9.71	NO	104.5
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	83530		10.183		na	101.8
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6	7.46	328.989 > 284.982	197767		ND		na	
56	ADONA	958445-44-8	8.51	376.926 > 251.005	2771867		147.922	2175.74	NO	104.2
57	PFHxDA		12.67	813.053 > 769.005	678344		129.765		na	86.5
58	PFODA		12.89	912.989 > 869.032	401689		129.449		na	86.3
59	M2PFHxDA		12.67	815.372 > 770.158	9030		10.582		na	105.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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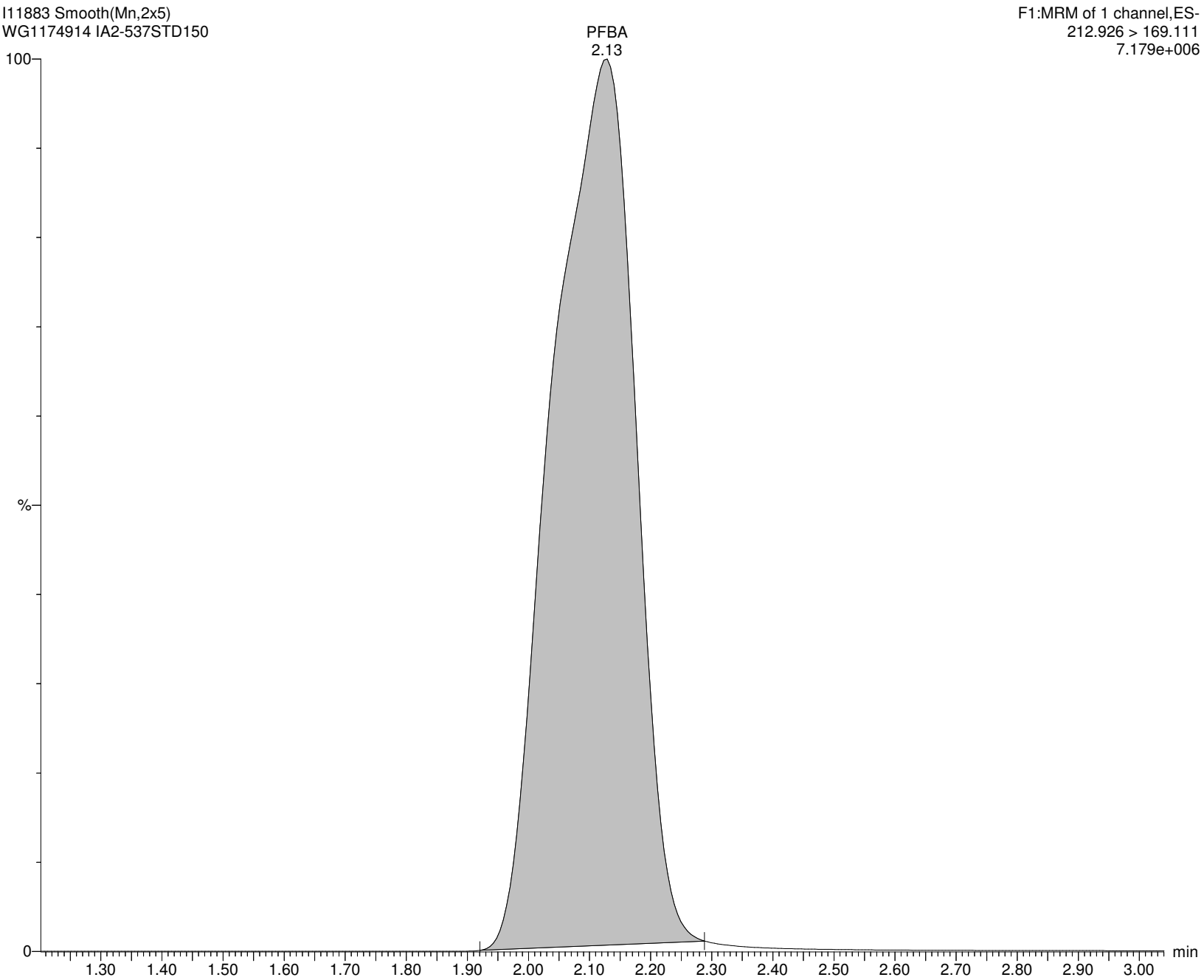

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 18:25:12
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User: LCMS01:AJ
Vial: 2:A,8
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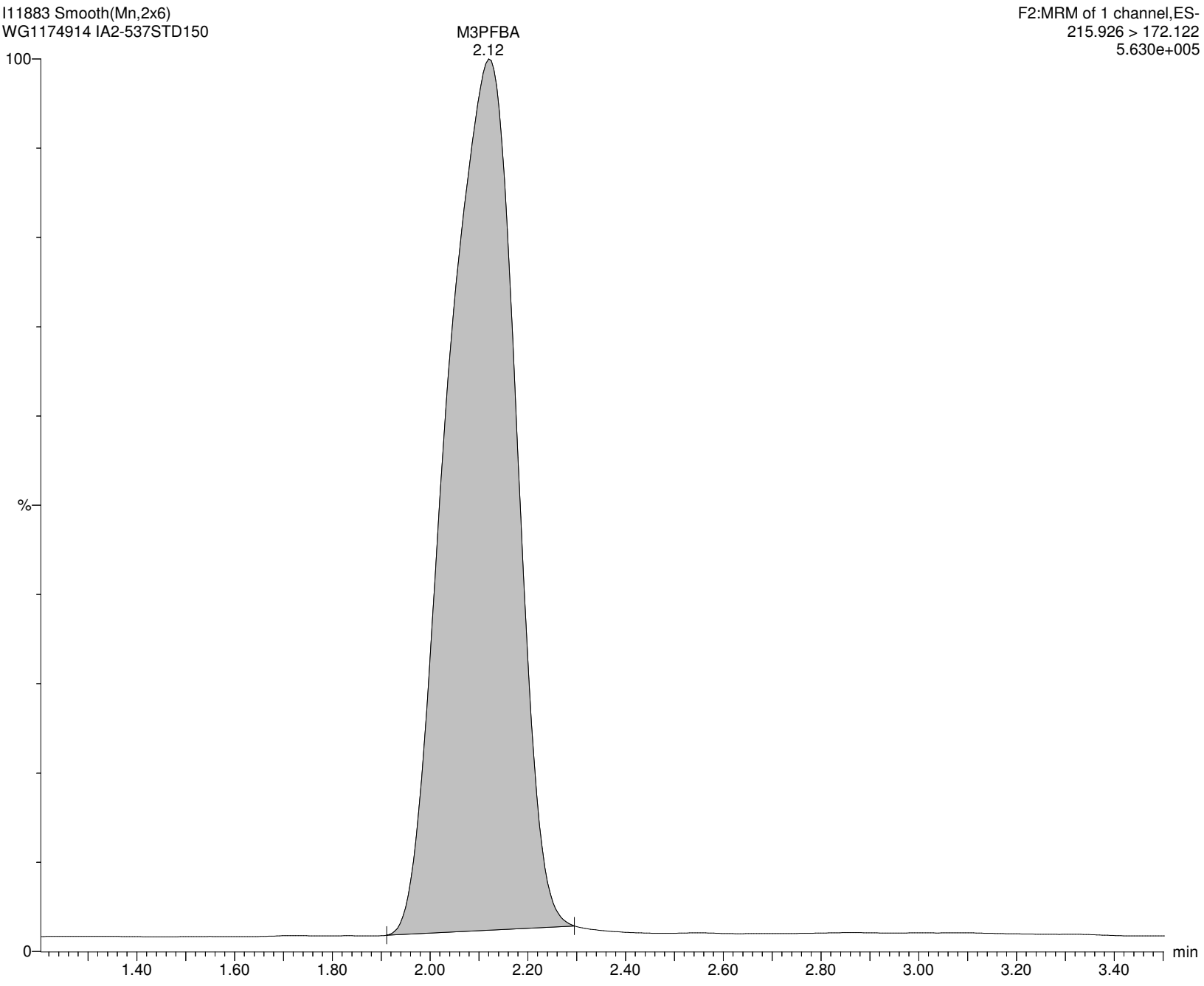

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AJ
Vial: 2:A,8
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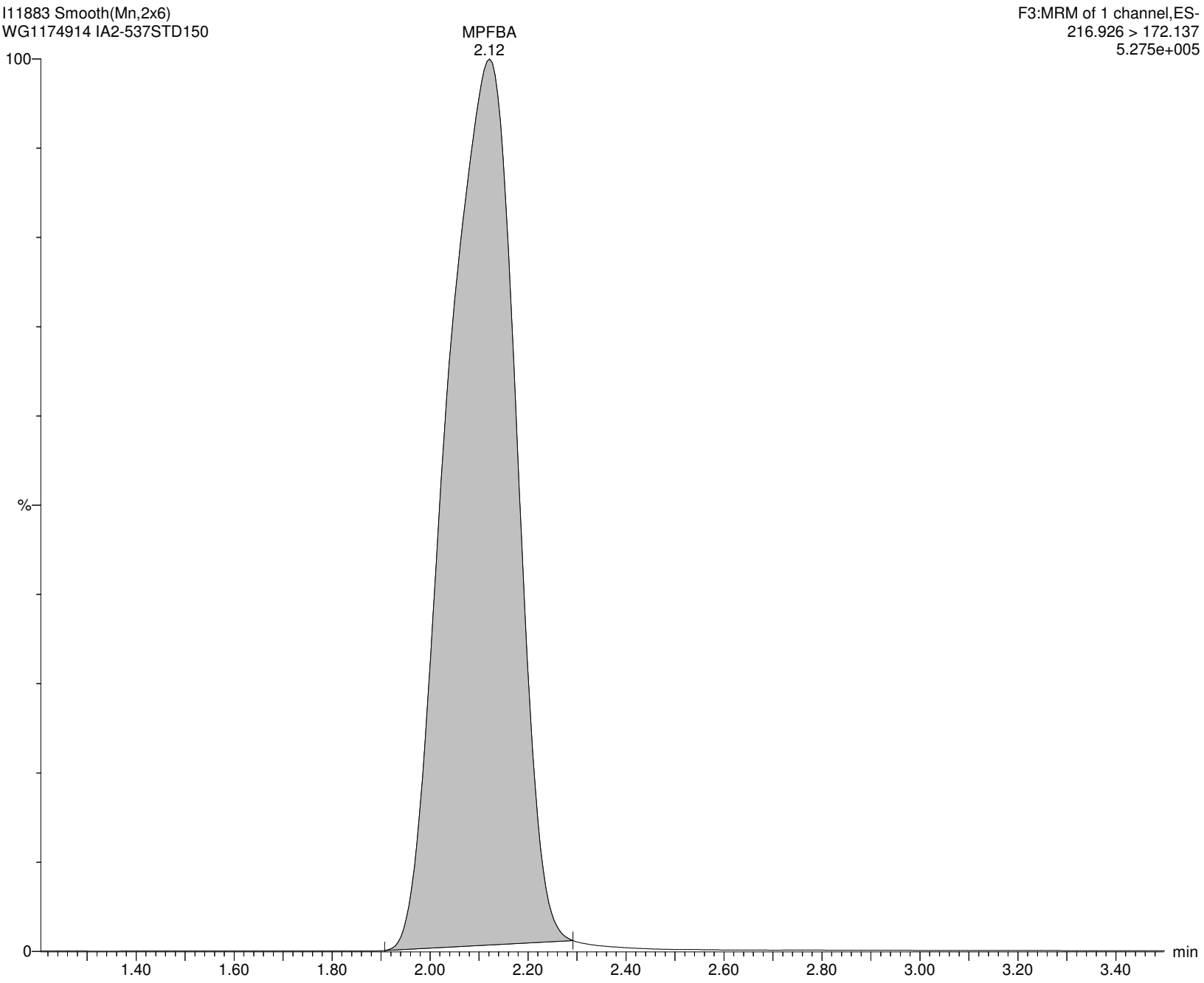

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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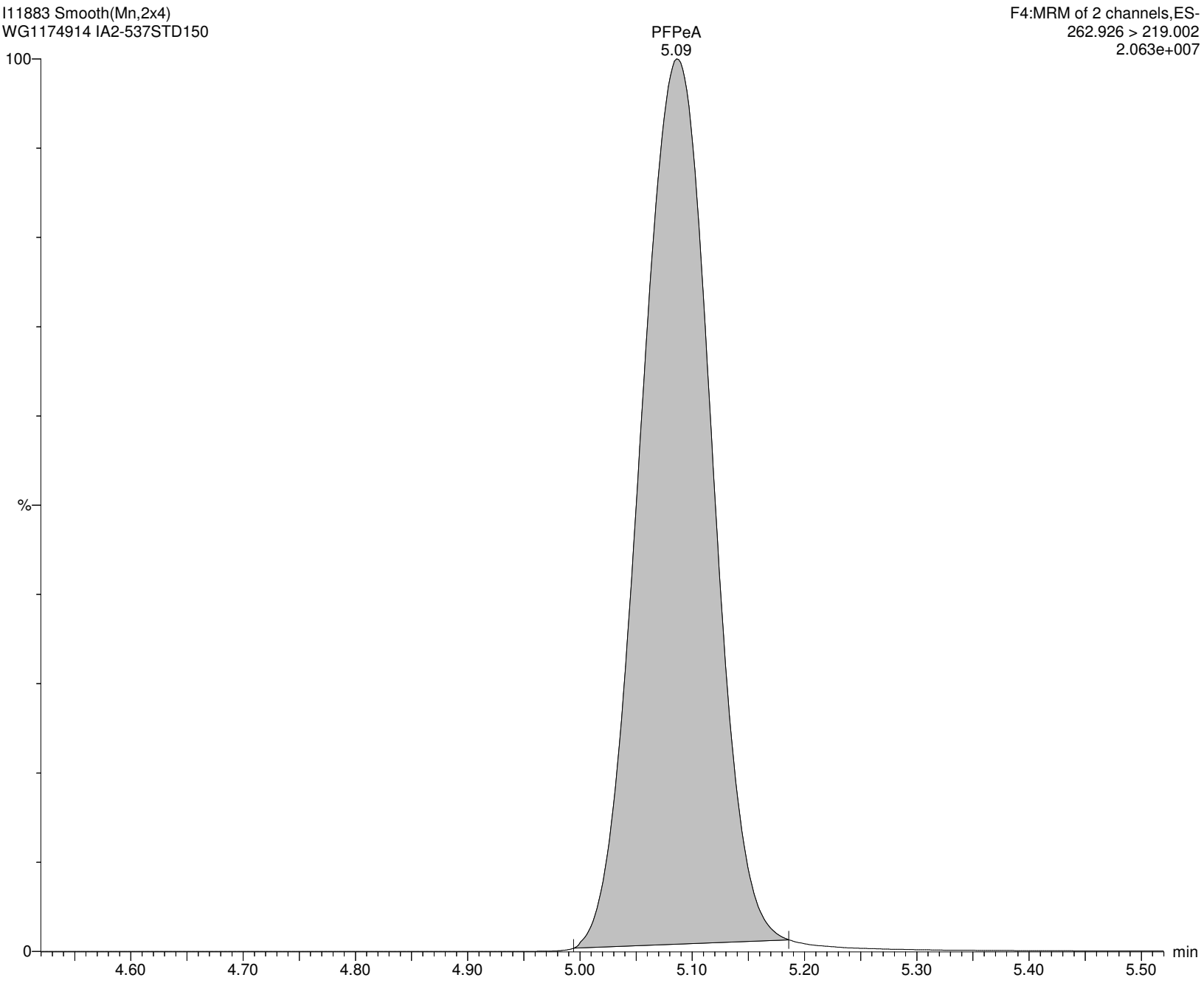
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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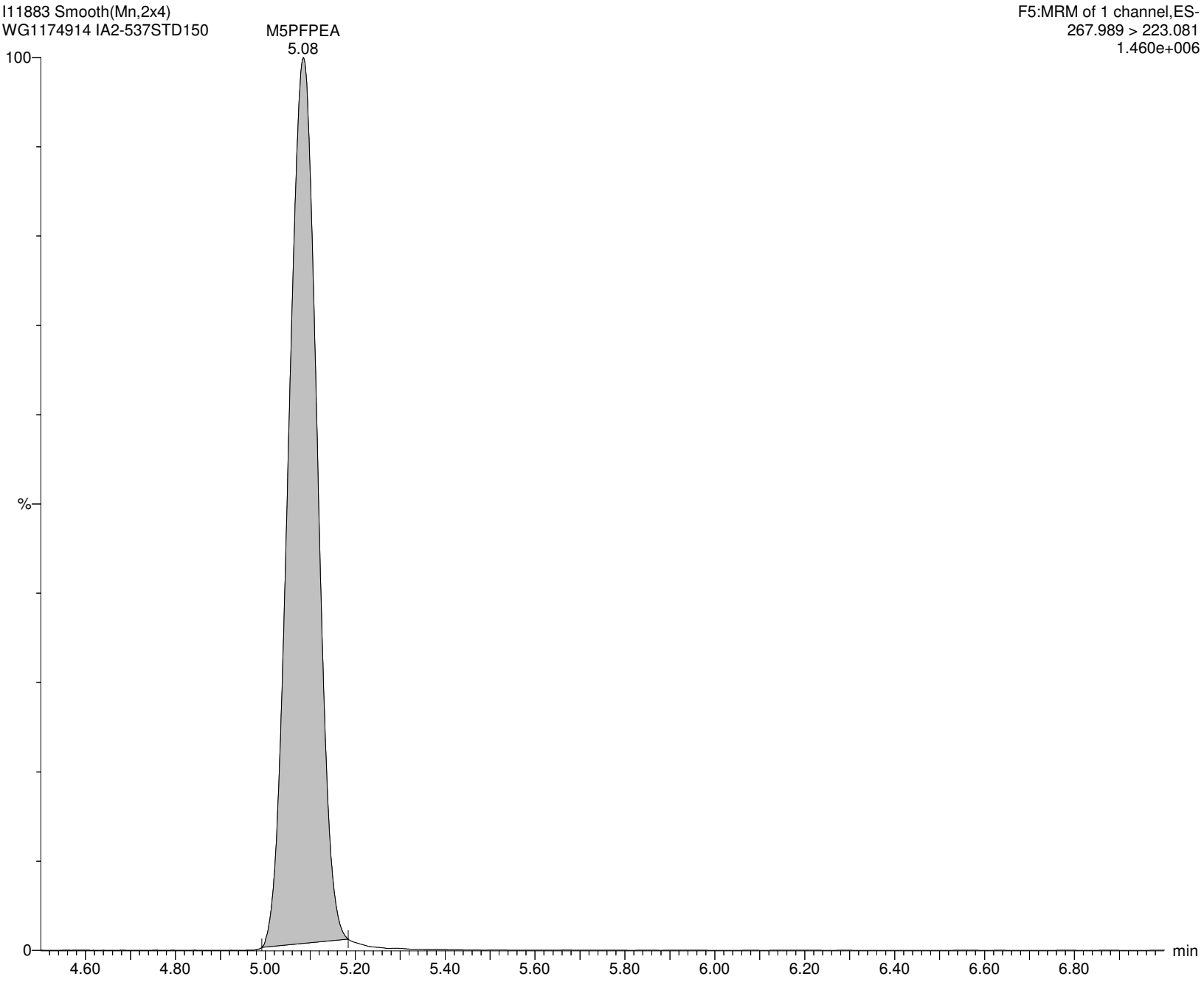

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:A,8
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Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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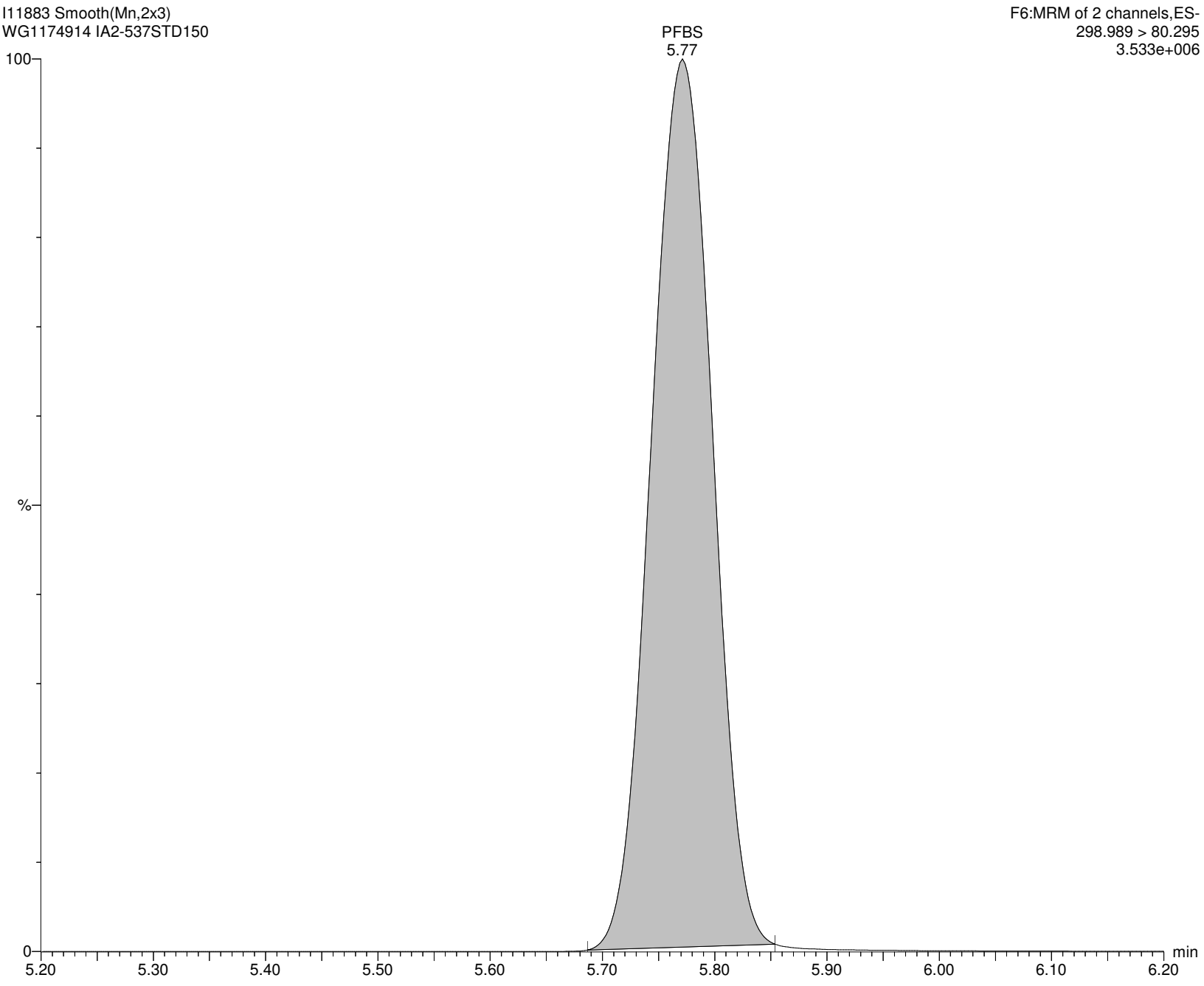

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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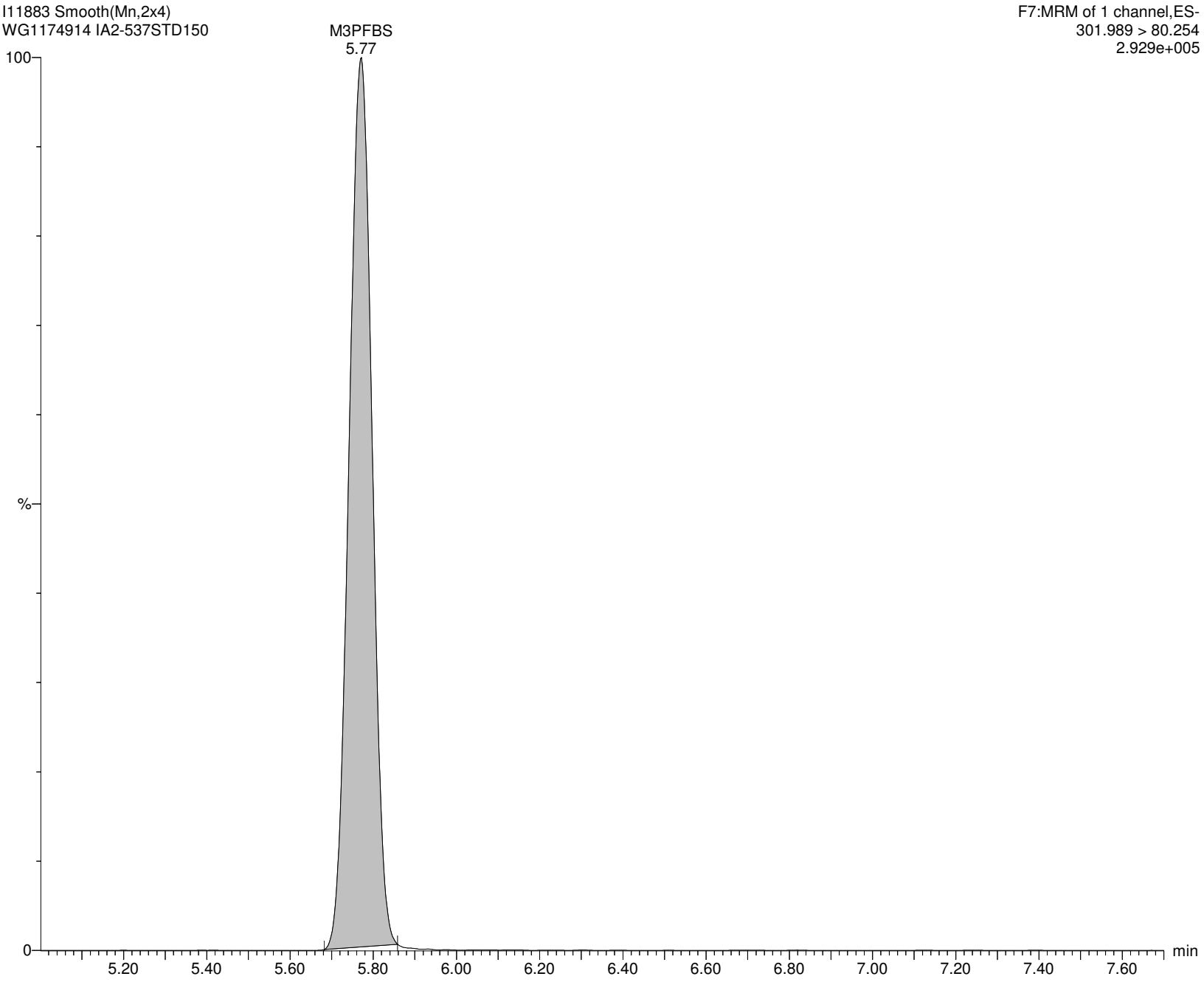
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
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Name: I11883
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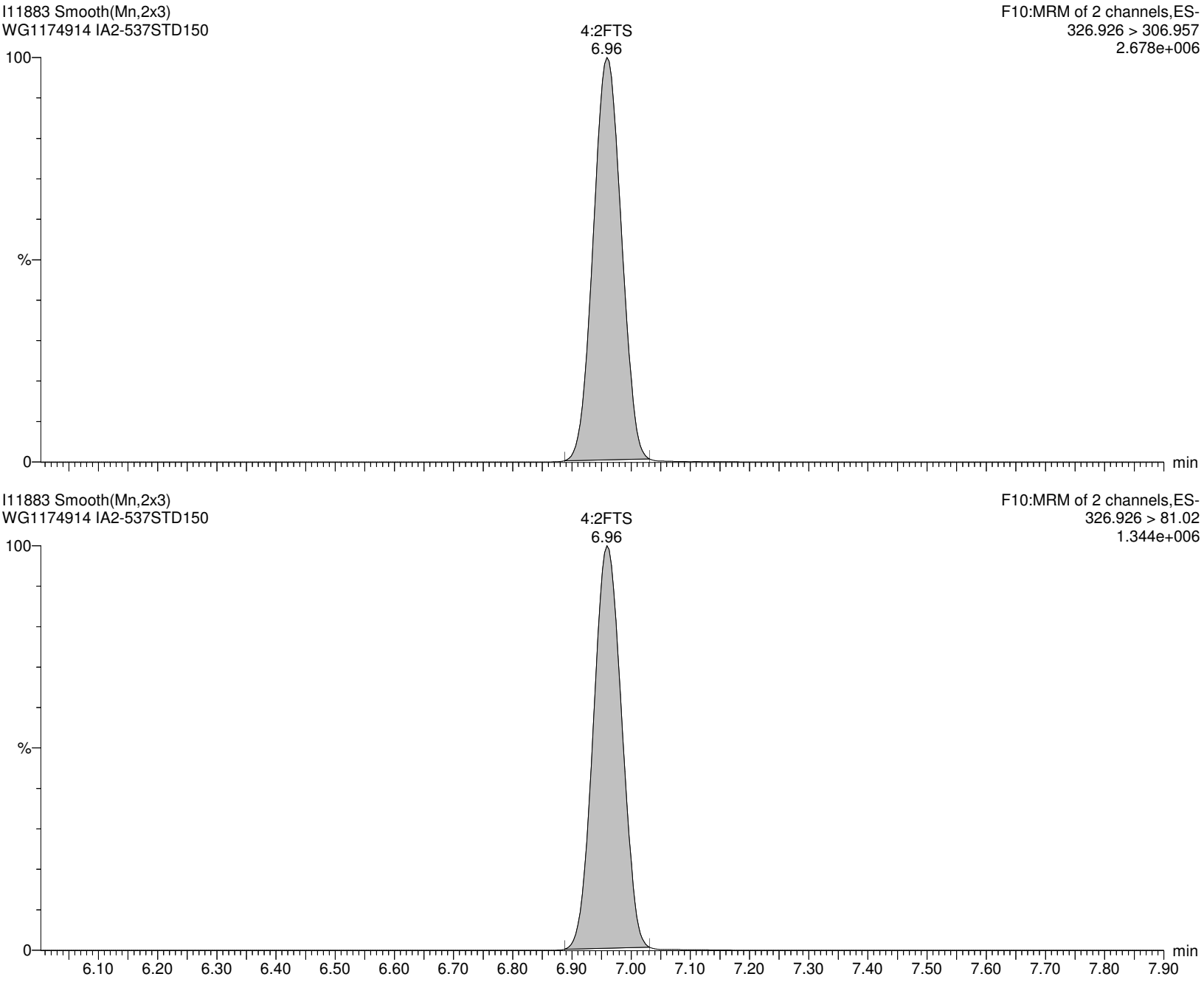
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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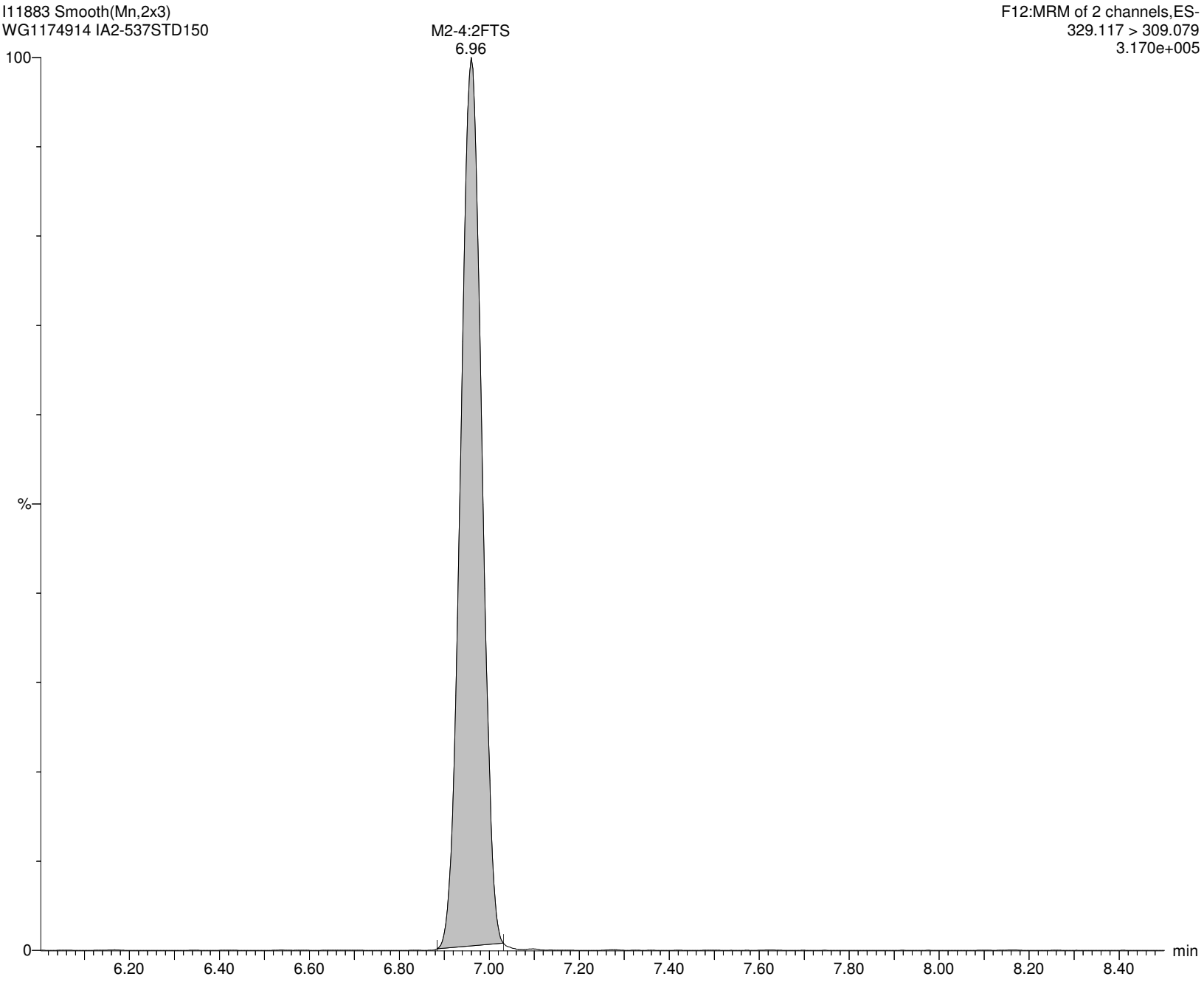
M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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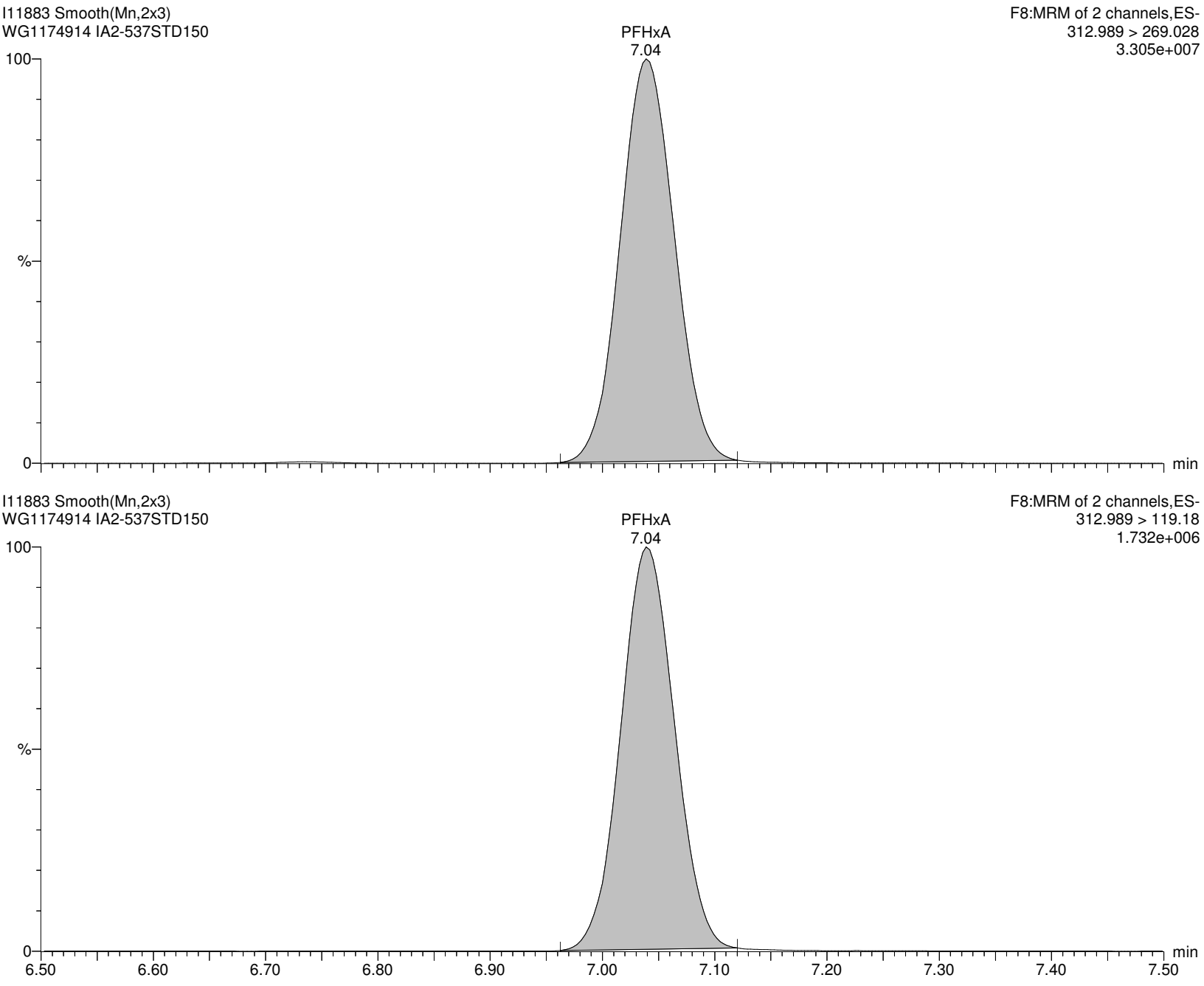

all concentration units in (ng/mL)

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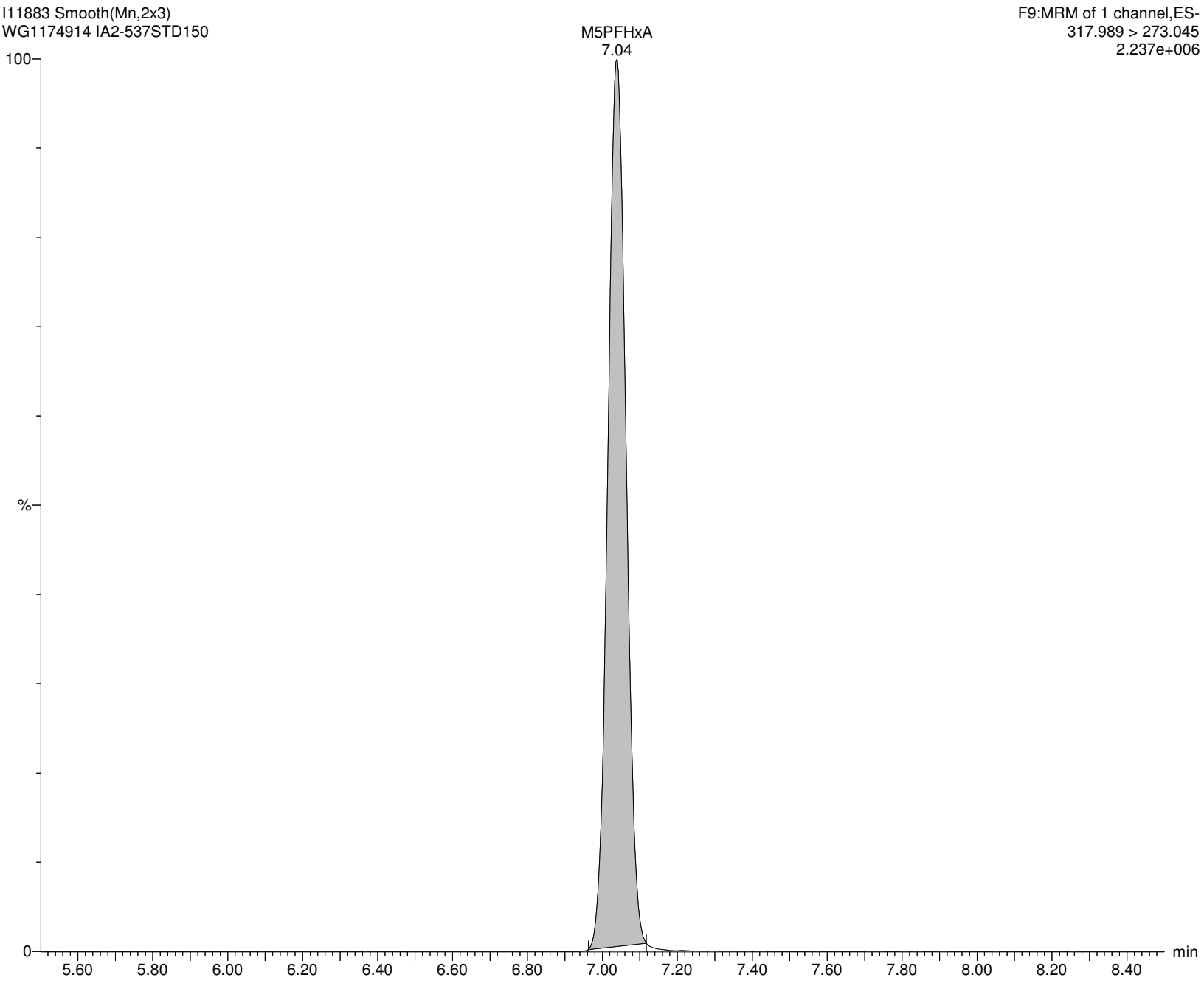

all concentration units in (ng/mL)

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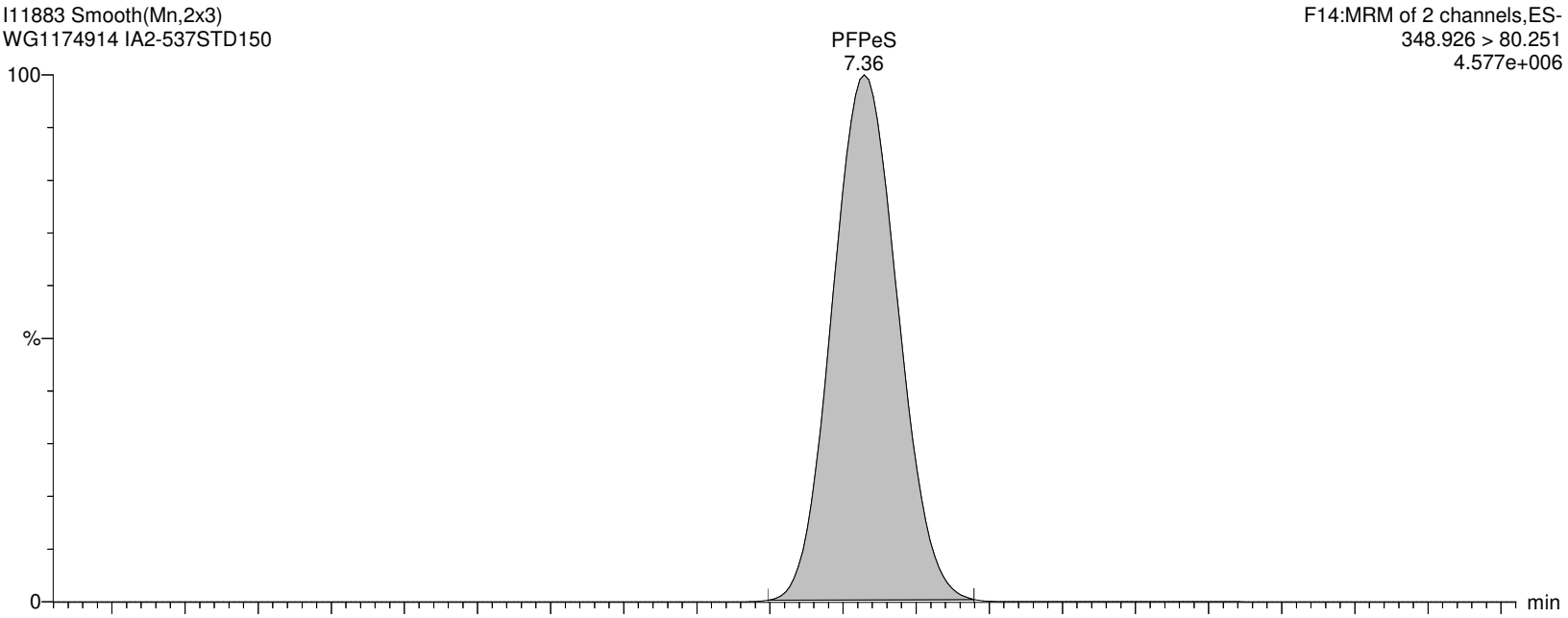

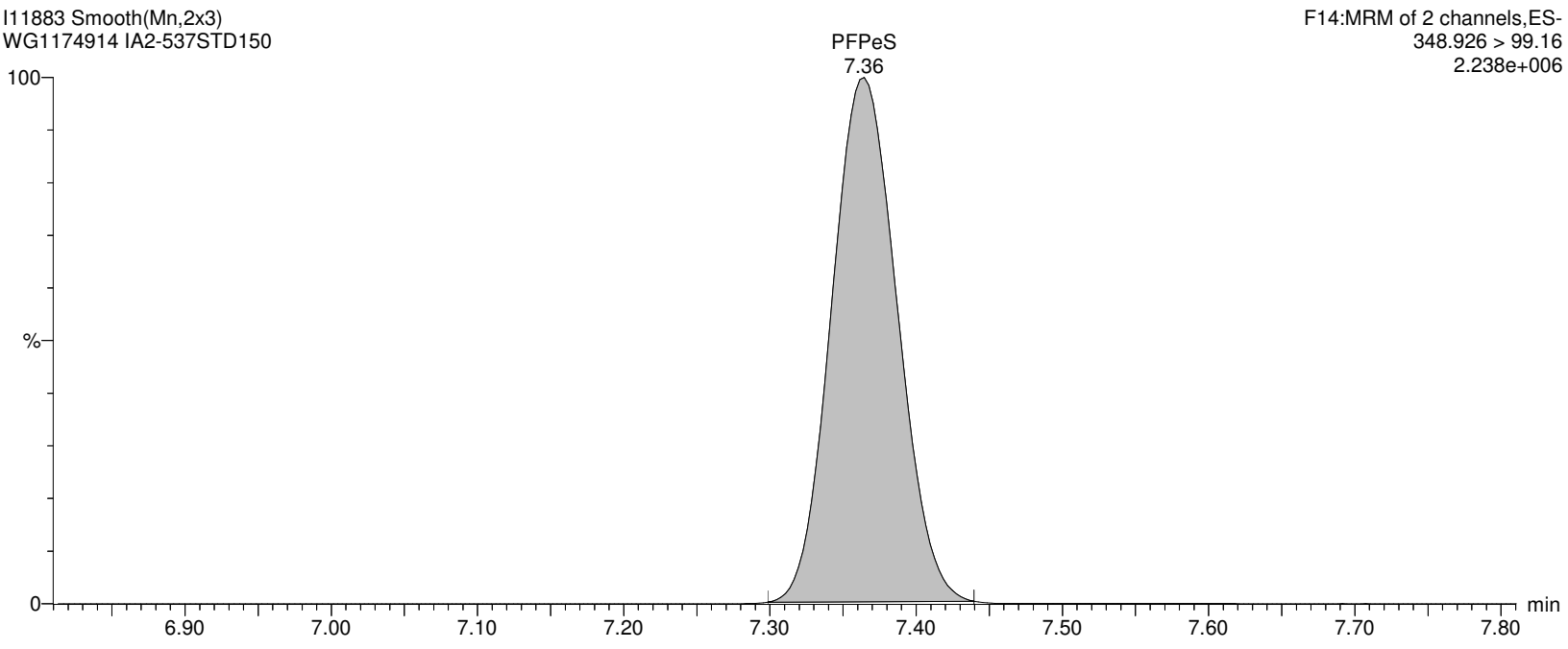

all concentration units in (ng/mL)

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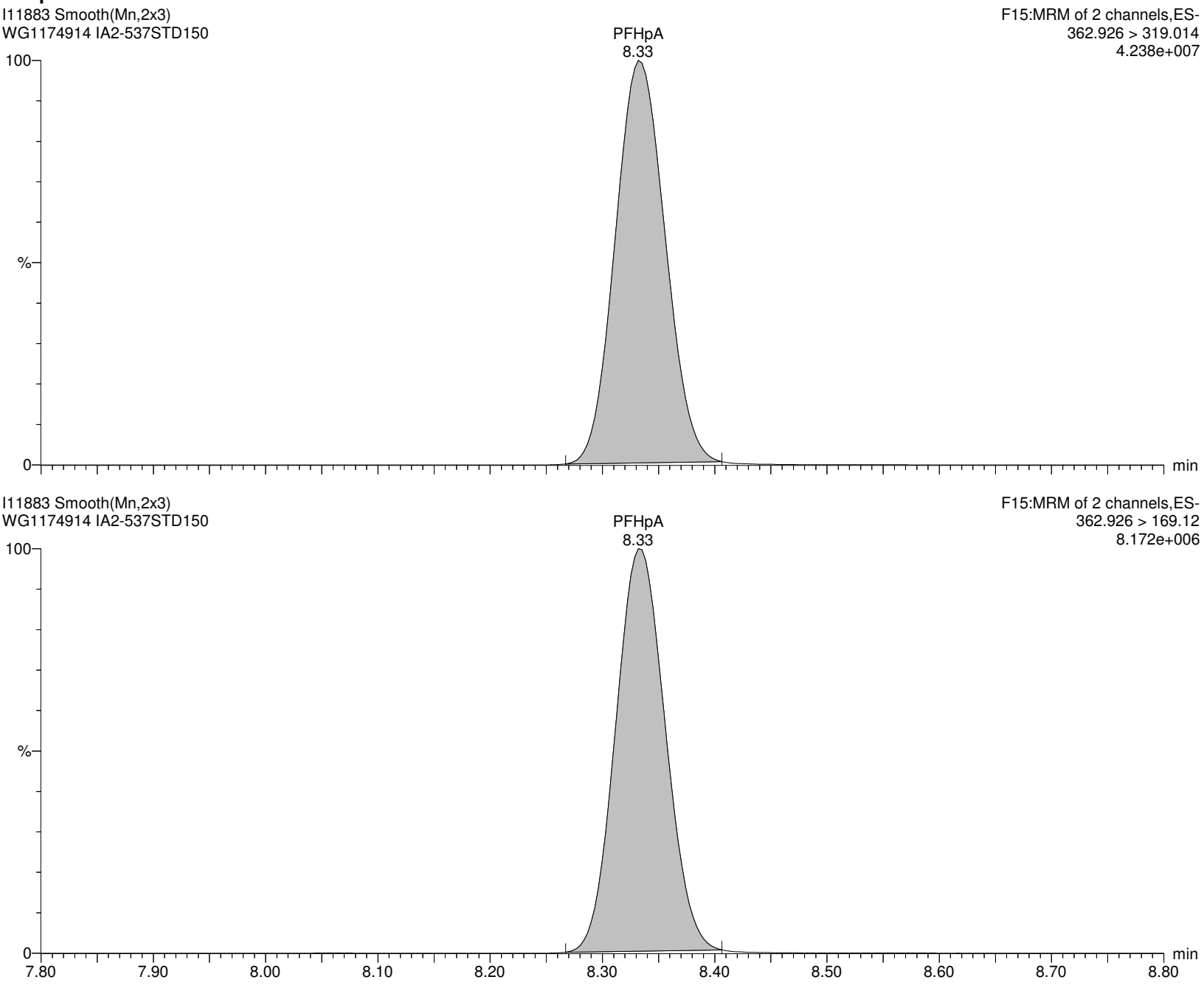

all concentration units in (ng/mL)

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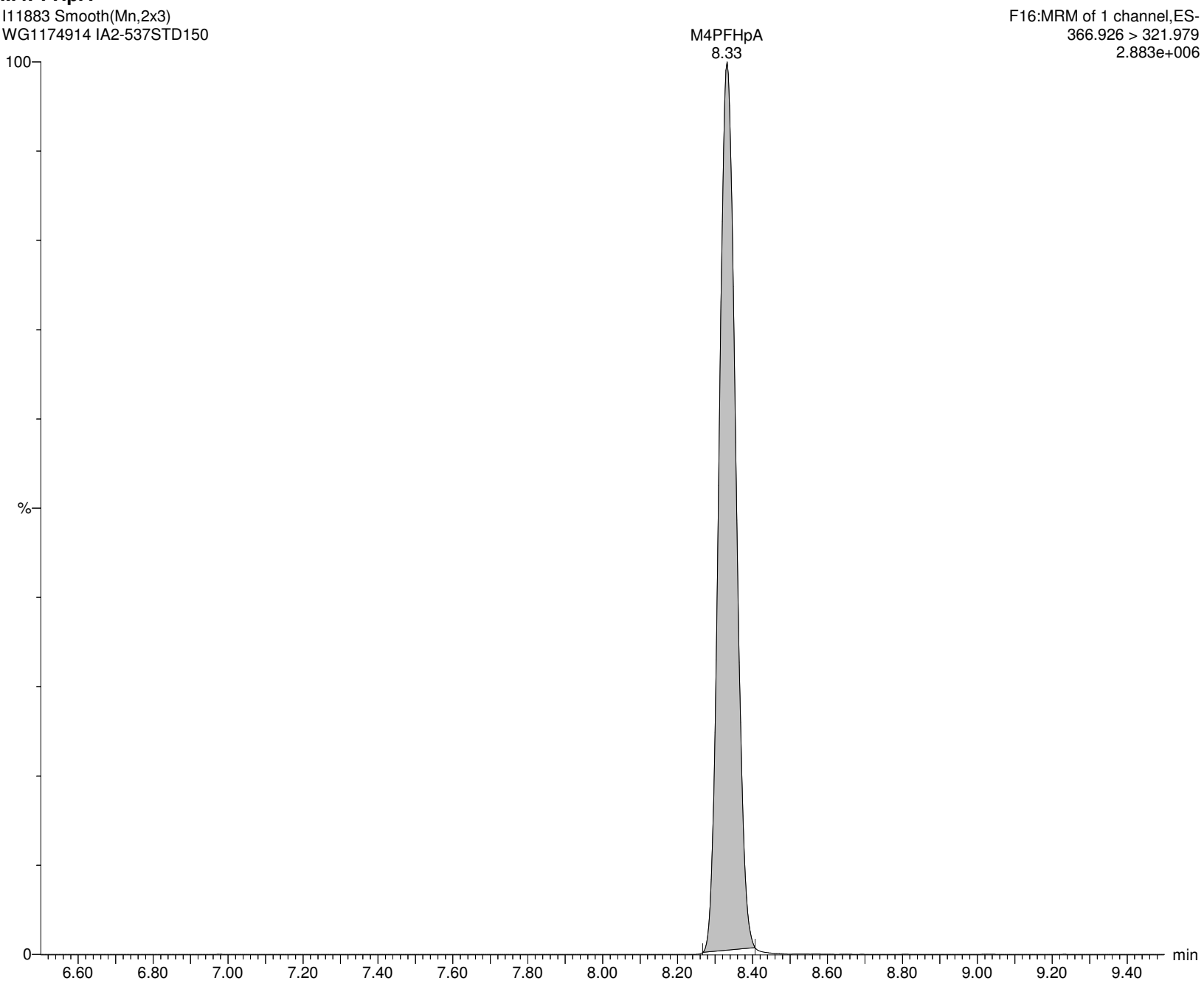

all concentration units in (ng/mL)

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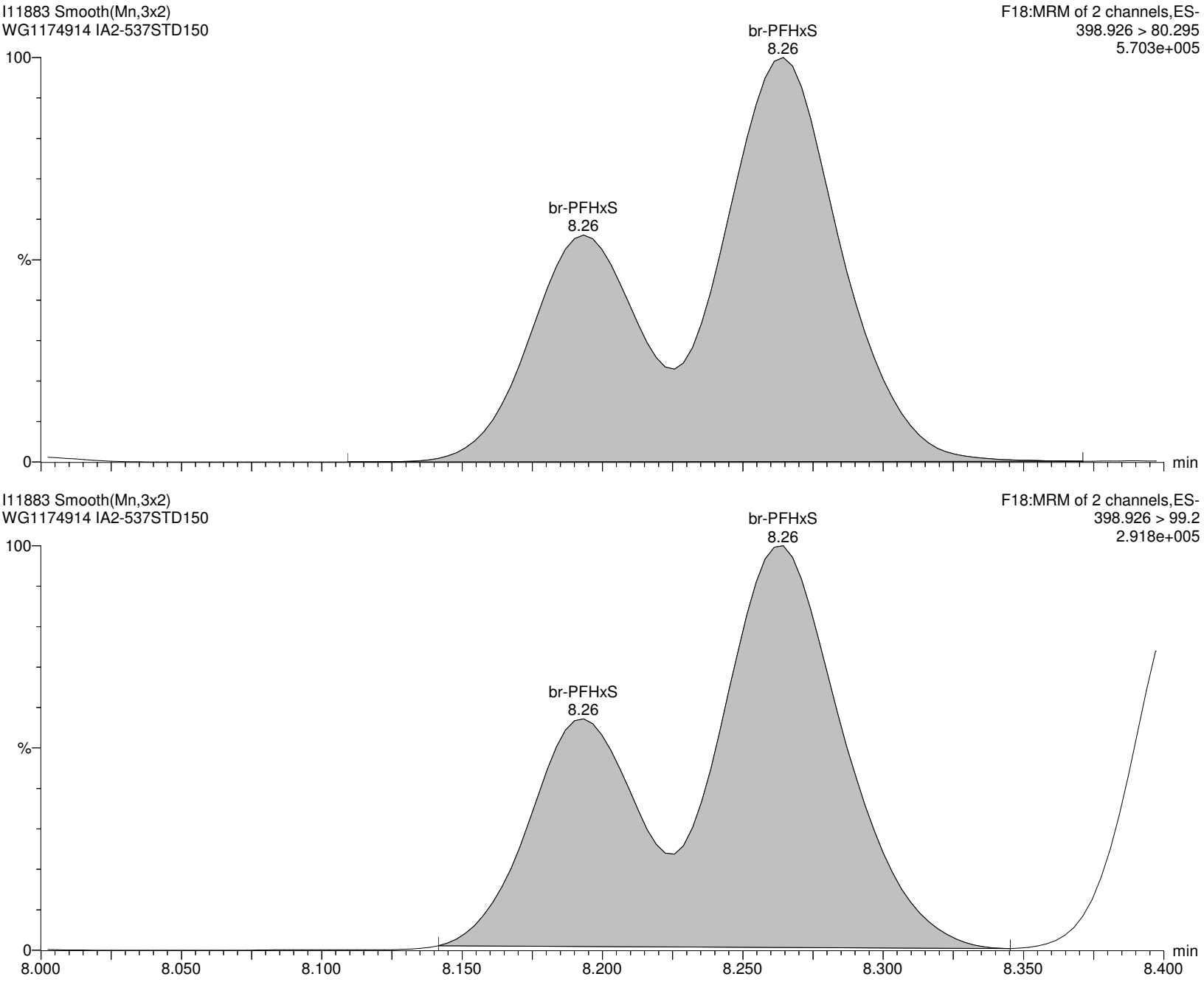

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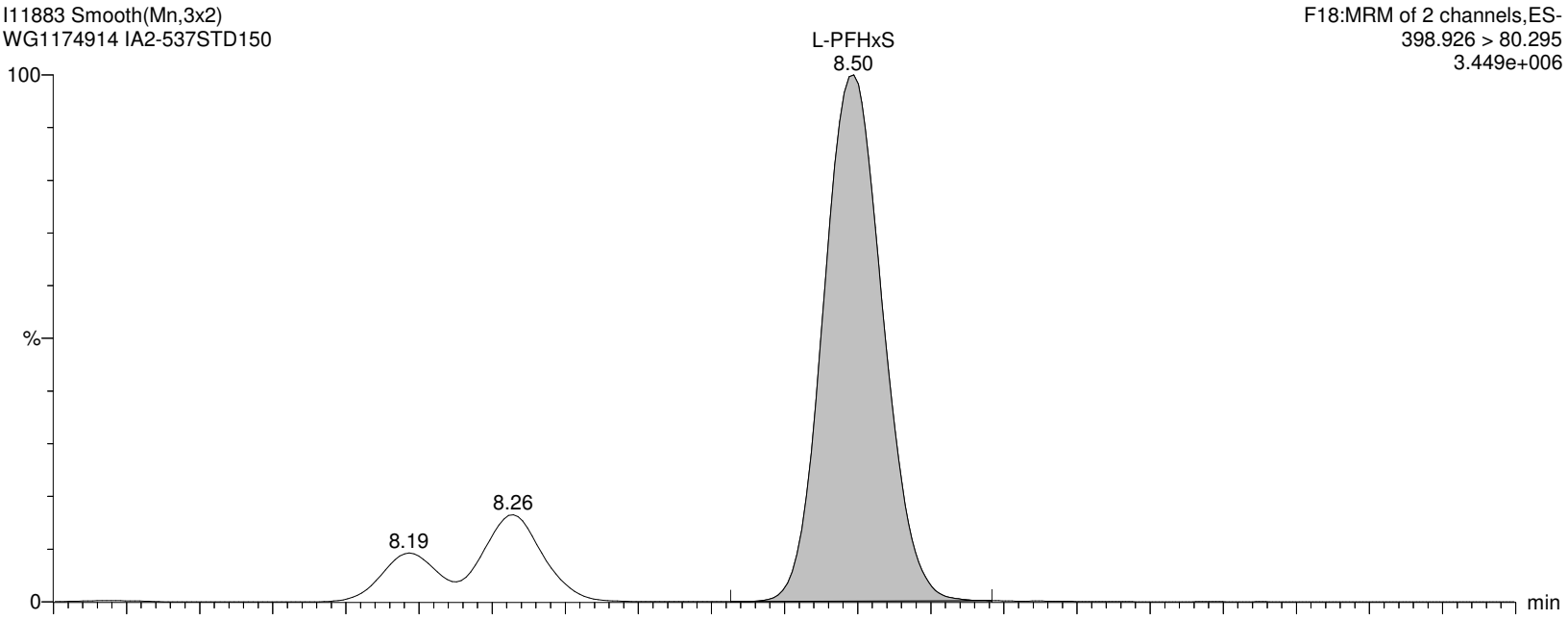

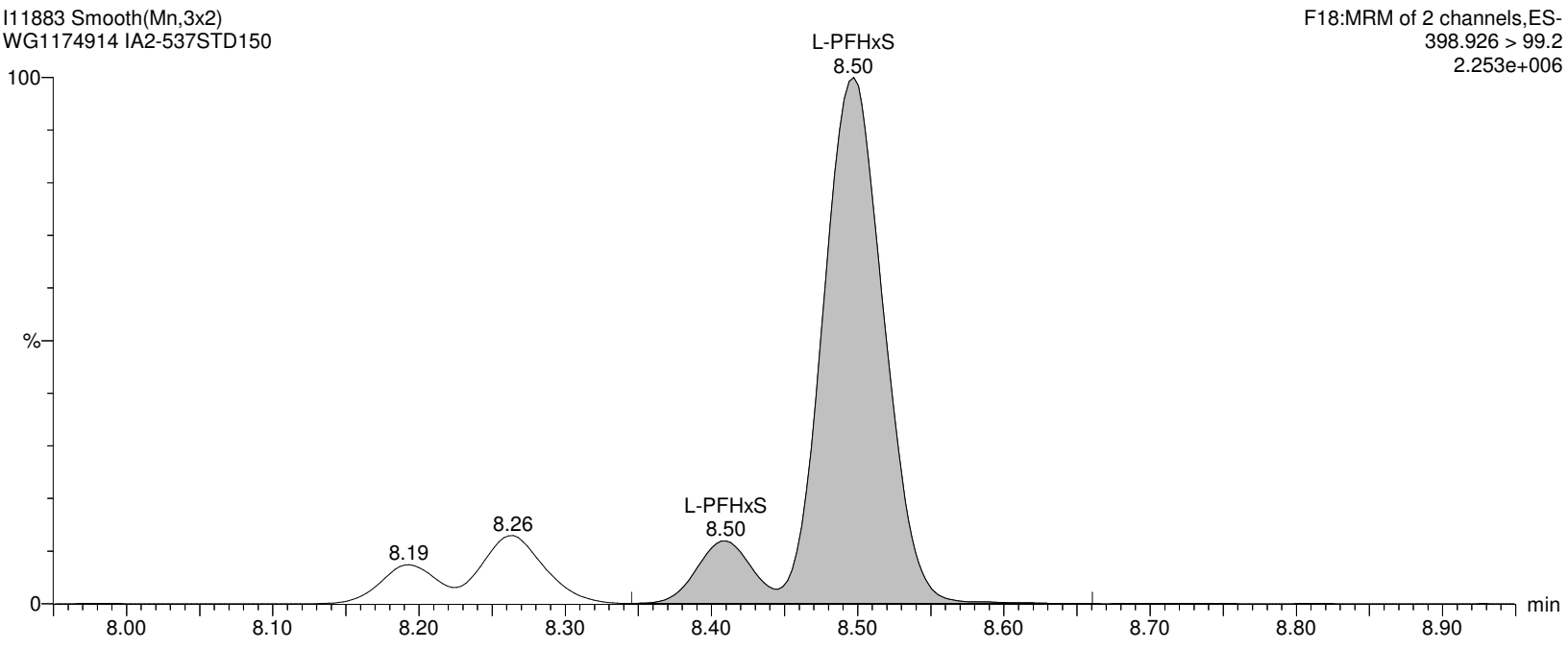

all concentration units in (ng/mL)

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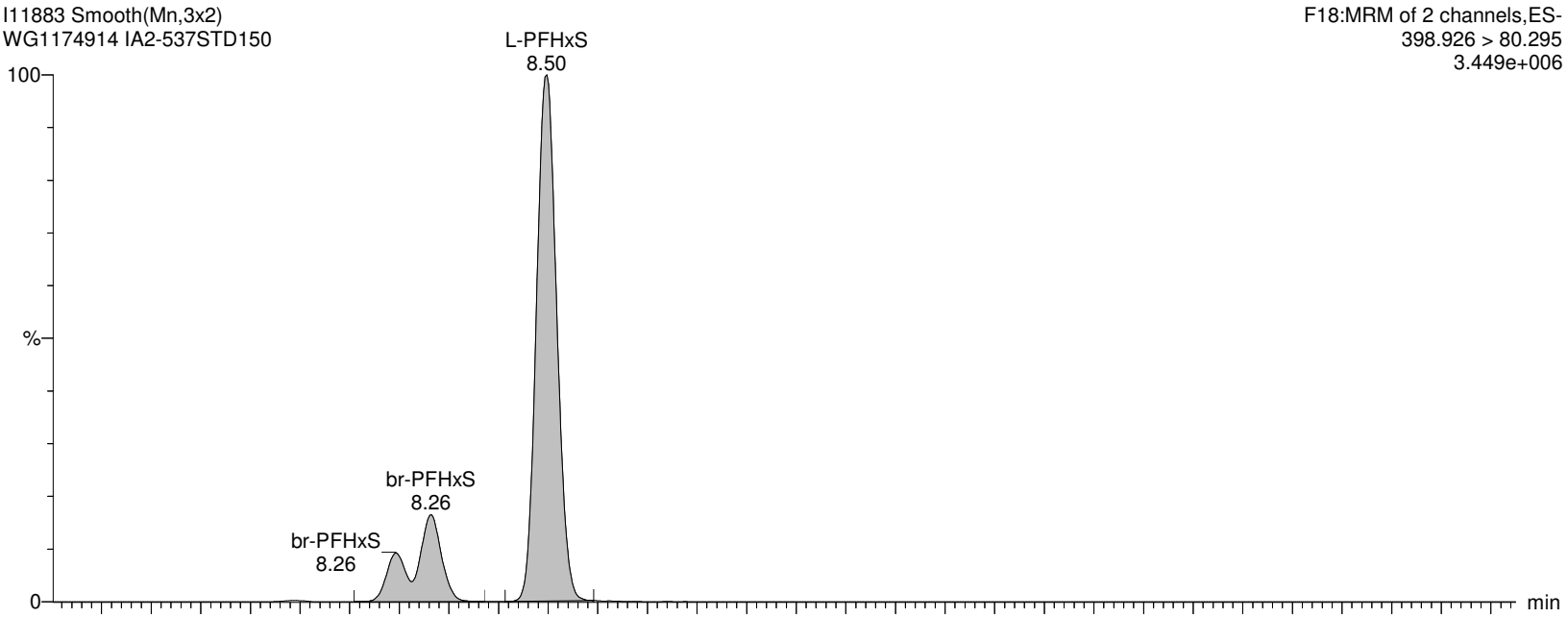

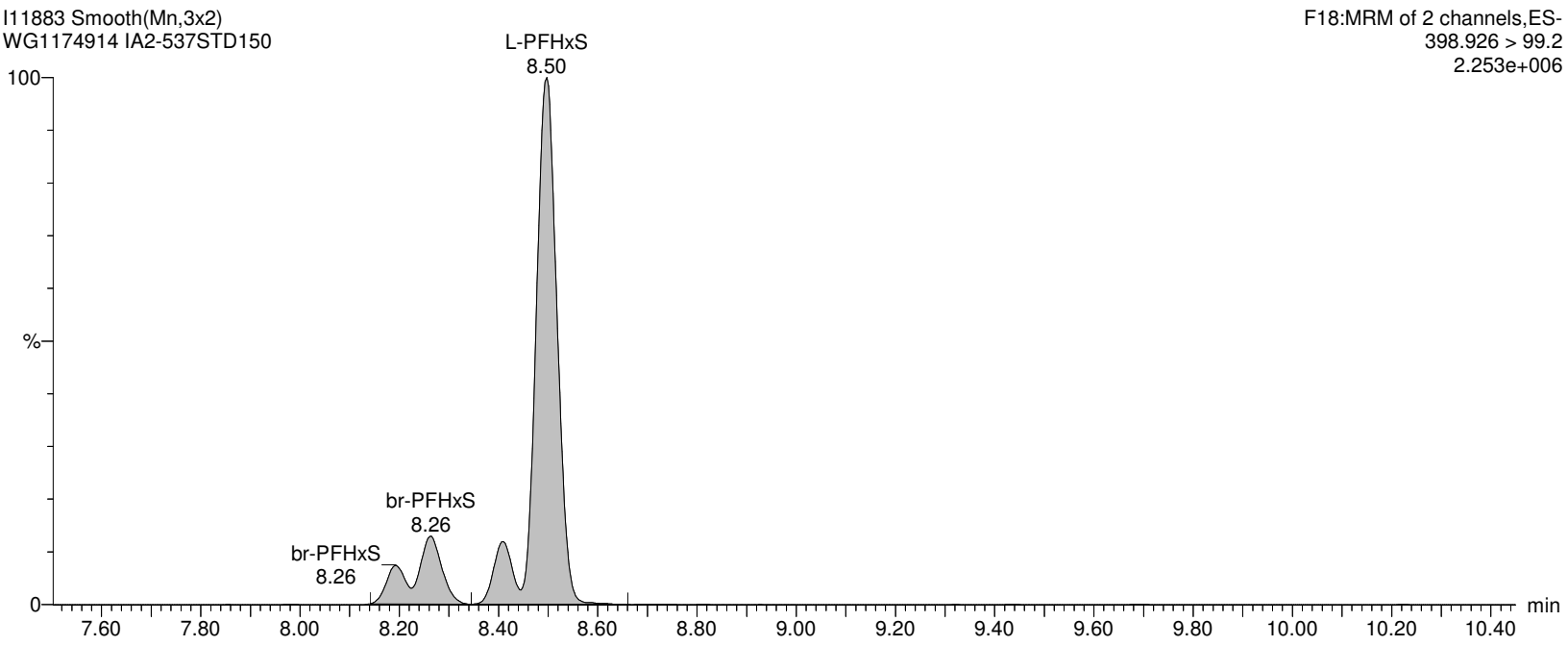

all concentration units in (ng/mL)

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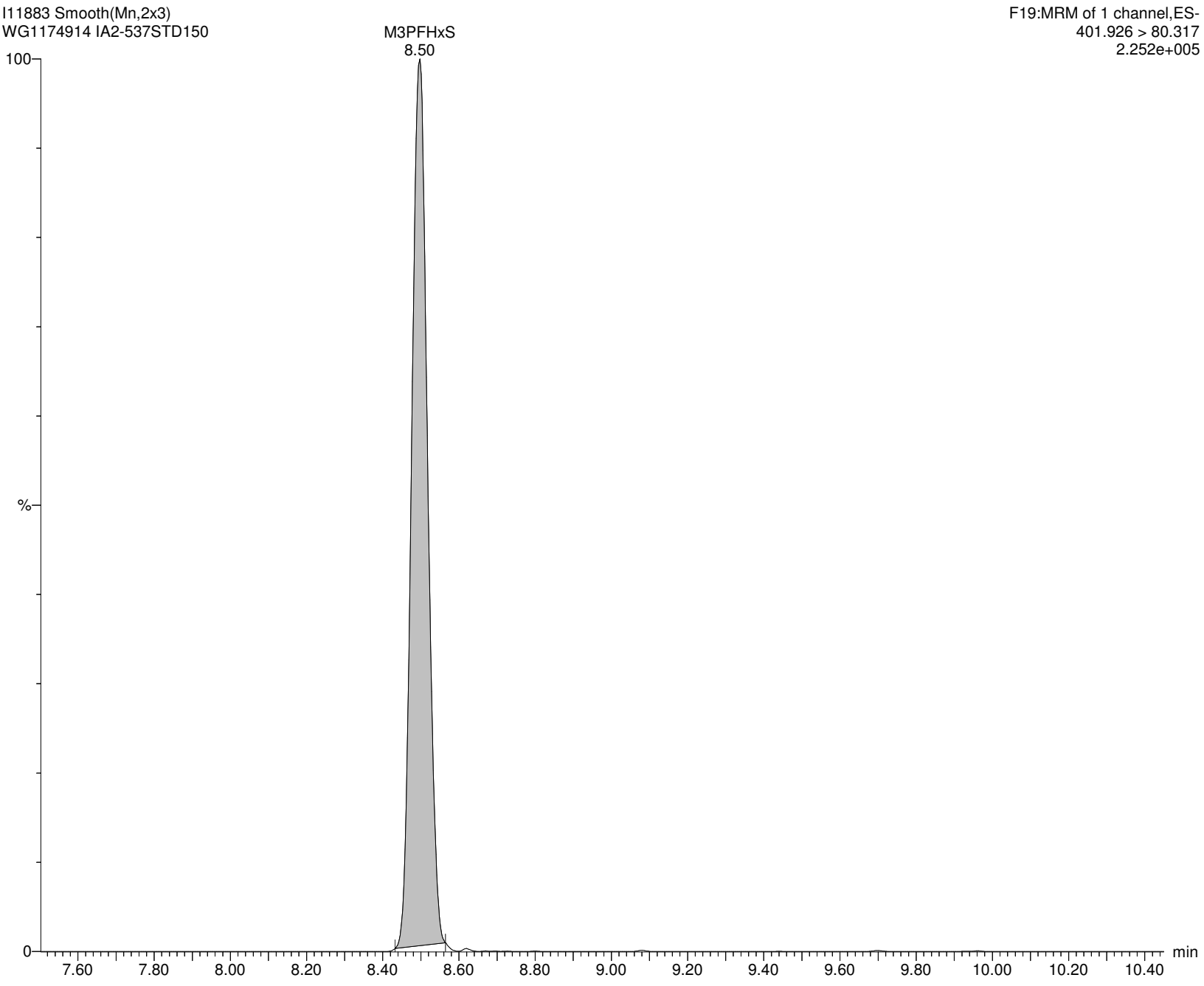

all concentration units in (ng/mL)

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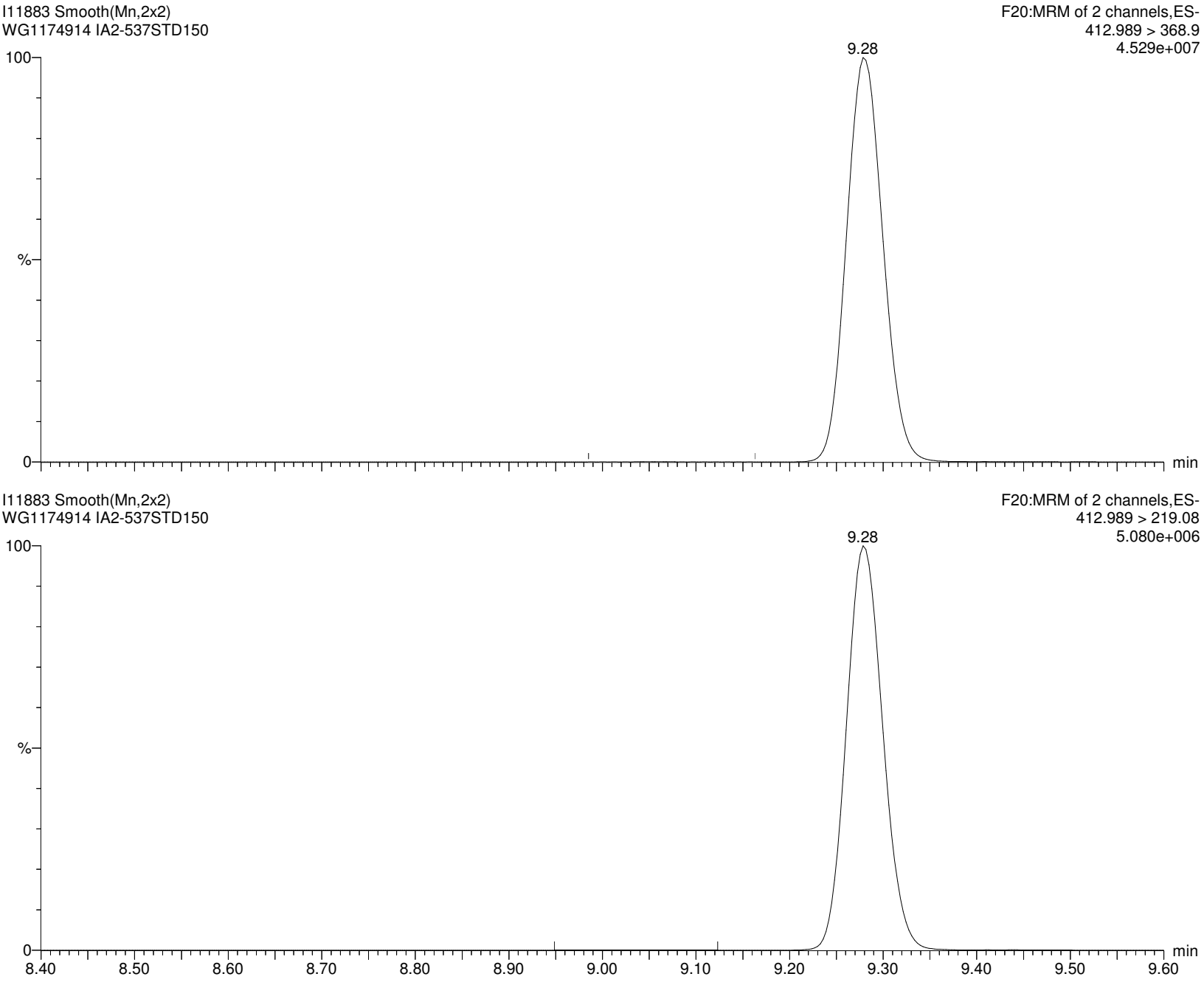

all concentration units in (ng/mL)

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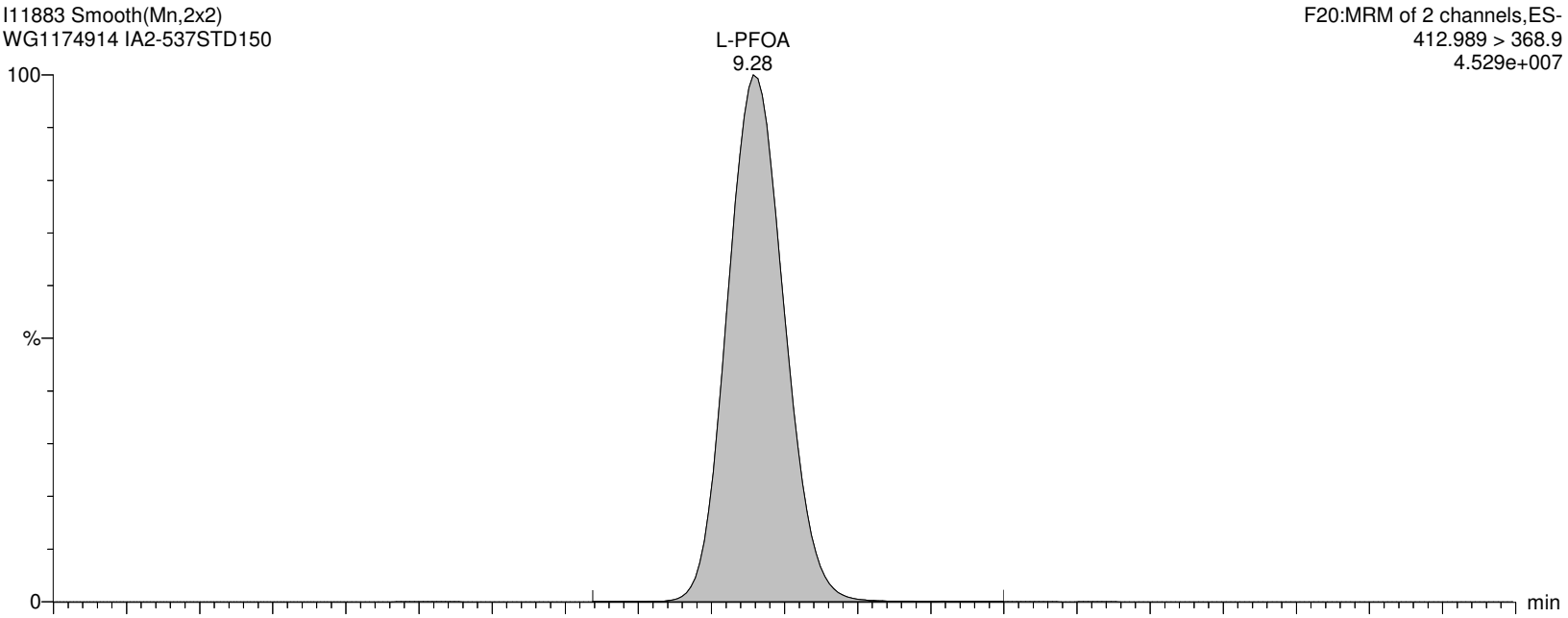

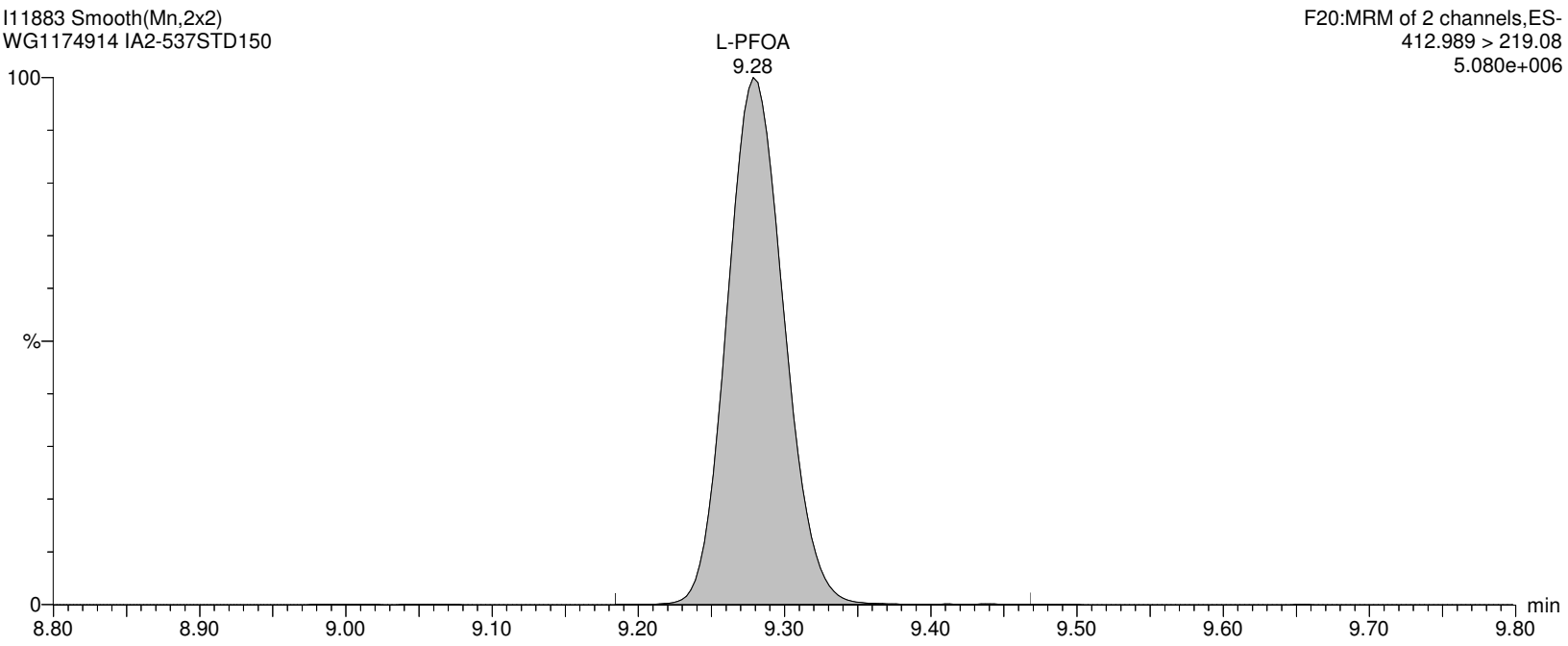

all concentration units in (ng/mL)

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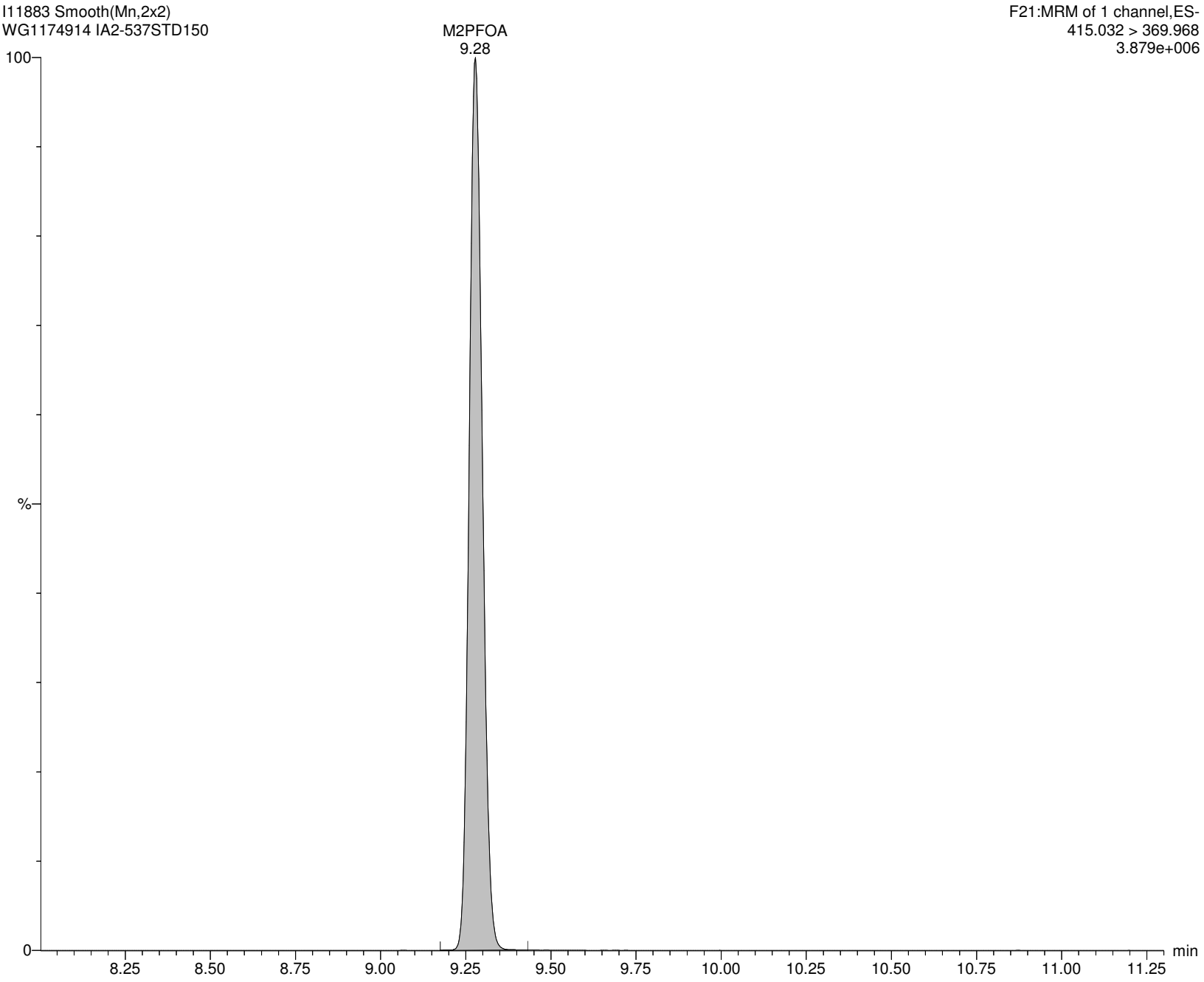

all concentration units in (ng/mL)

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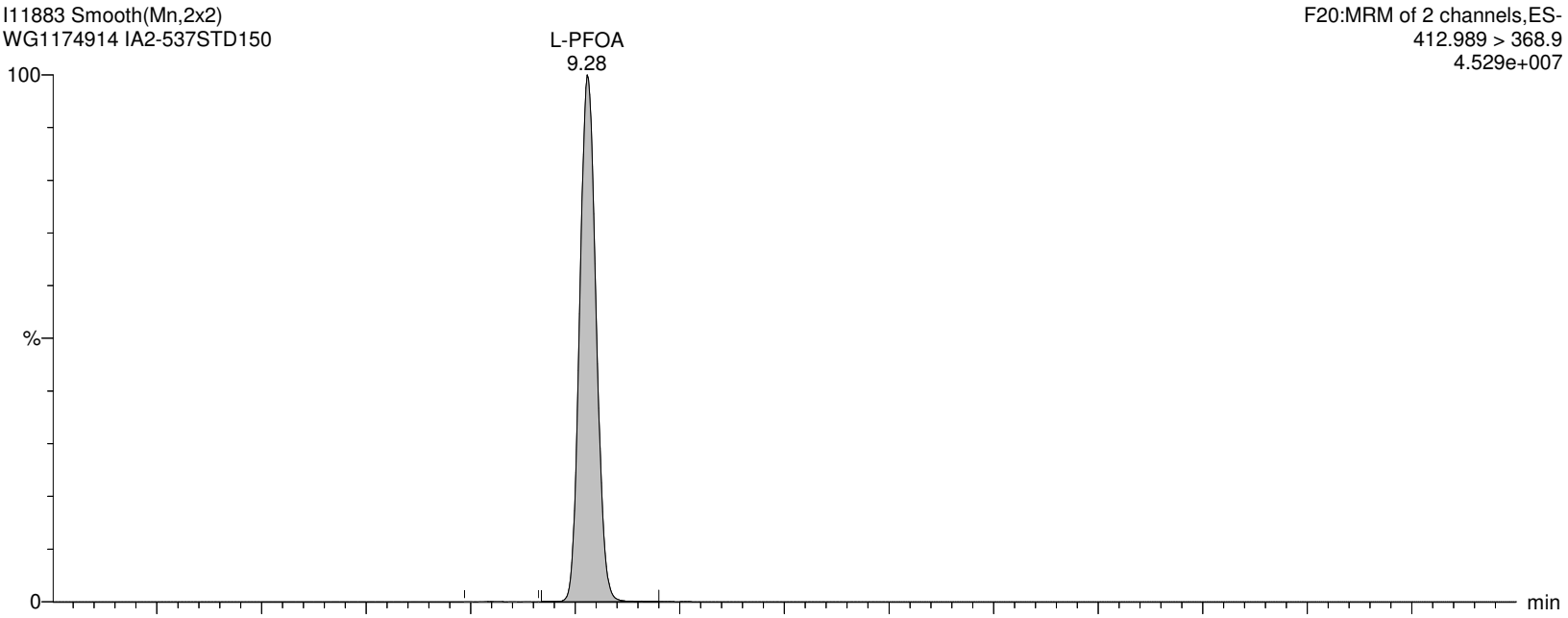

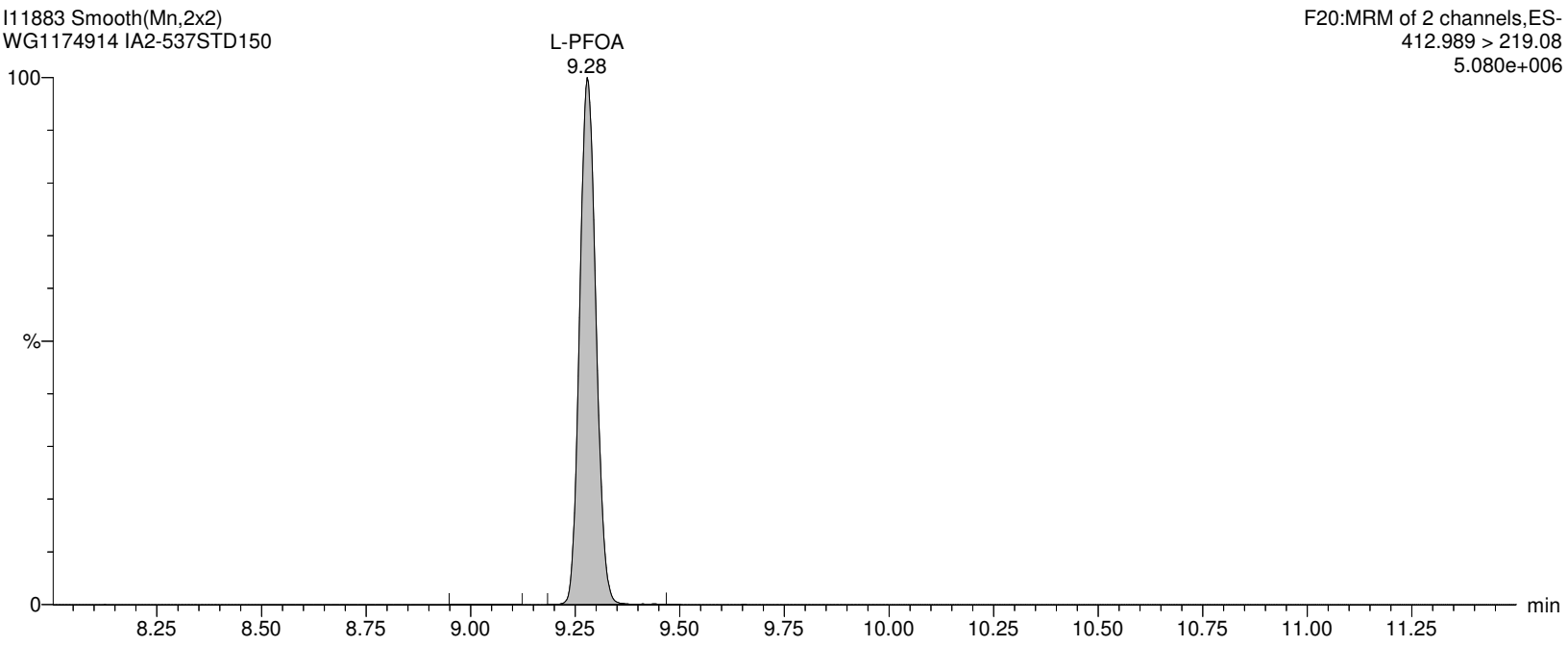

all concentration units in (ng/mL)

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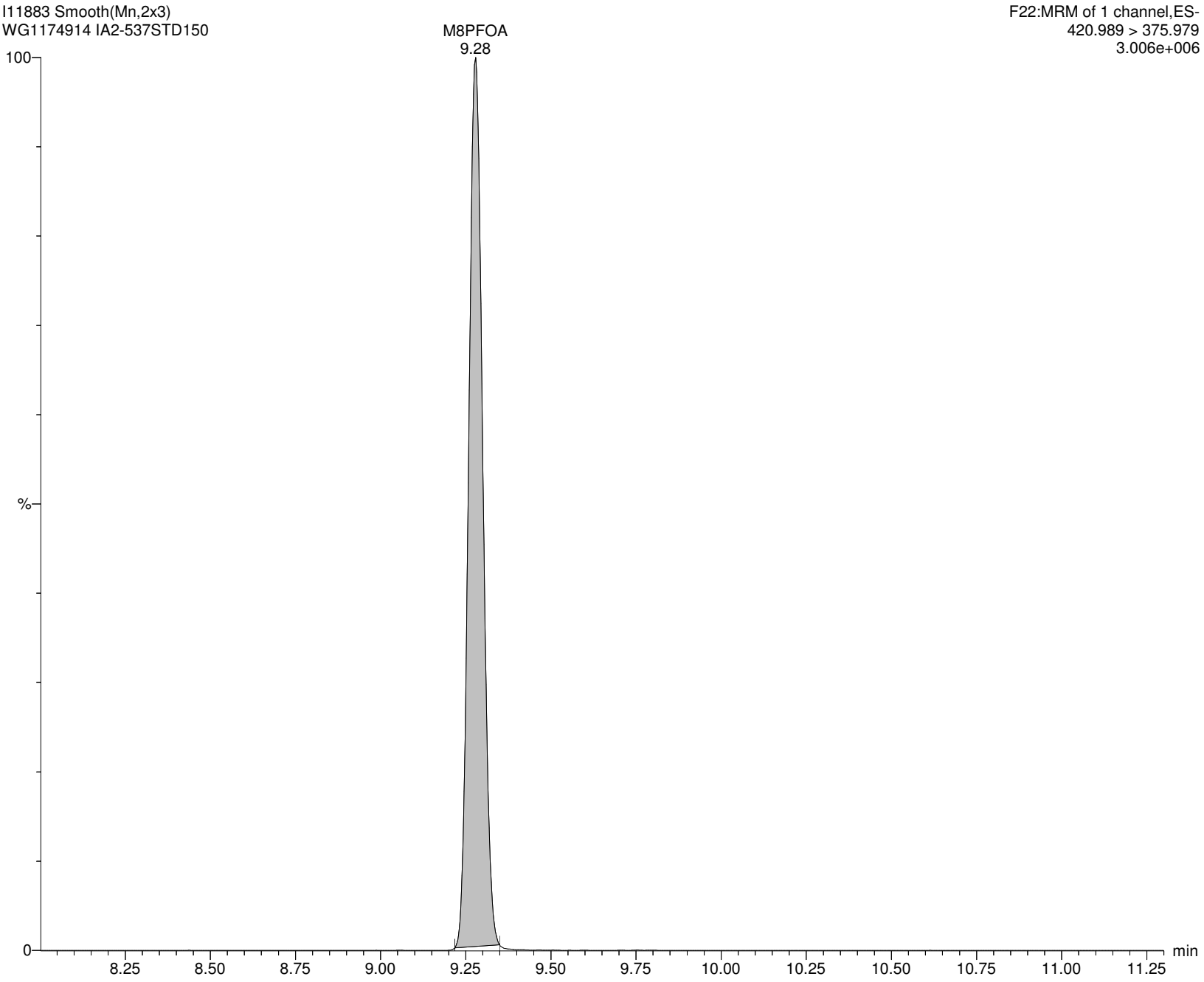

all concentration units in (ng/mL)

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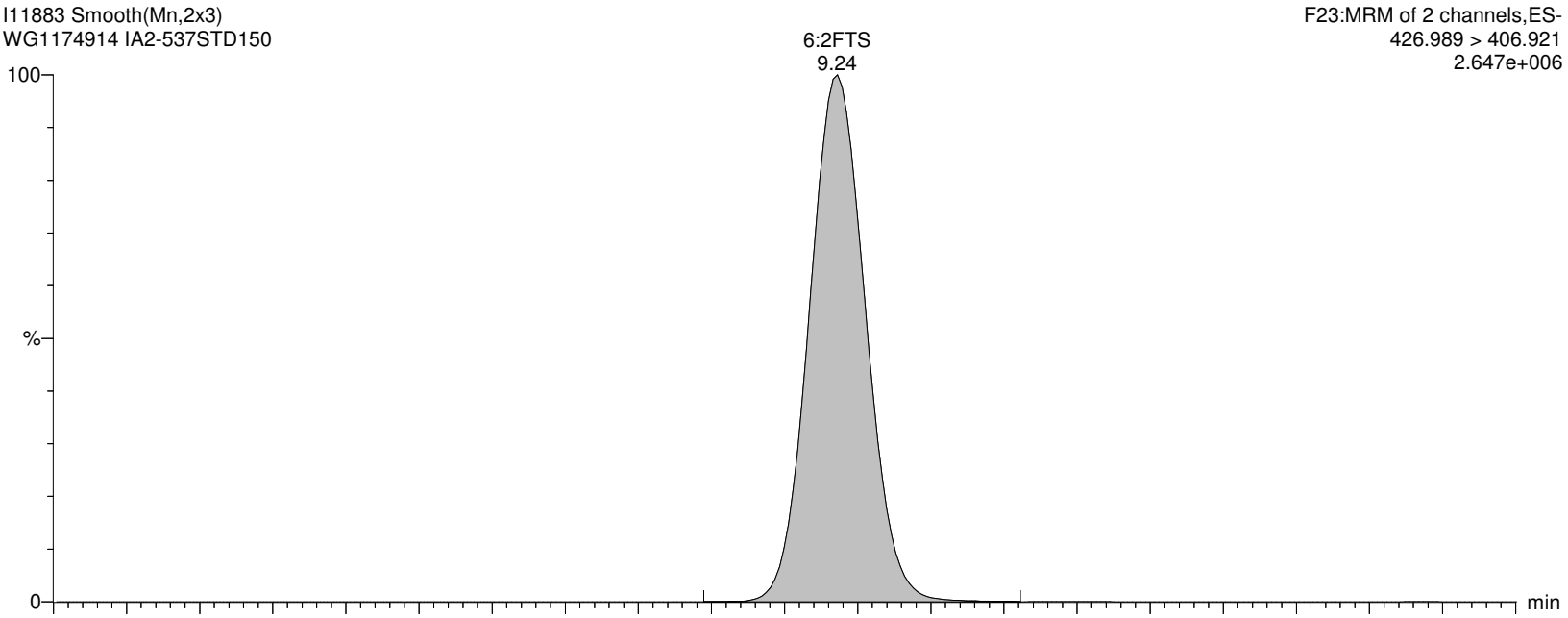
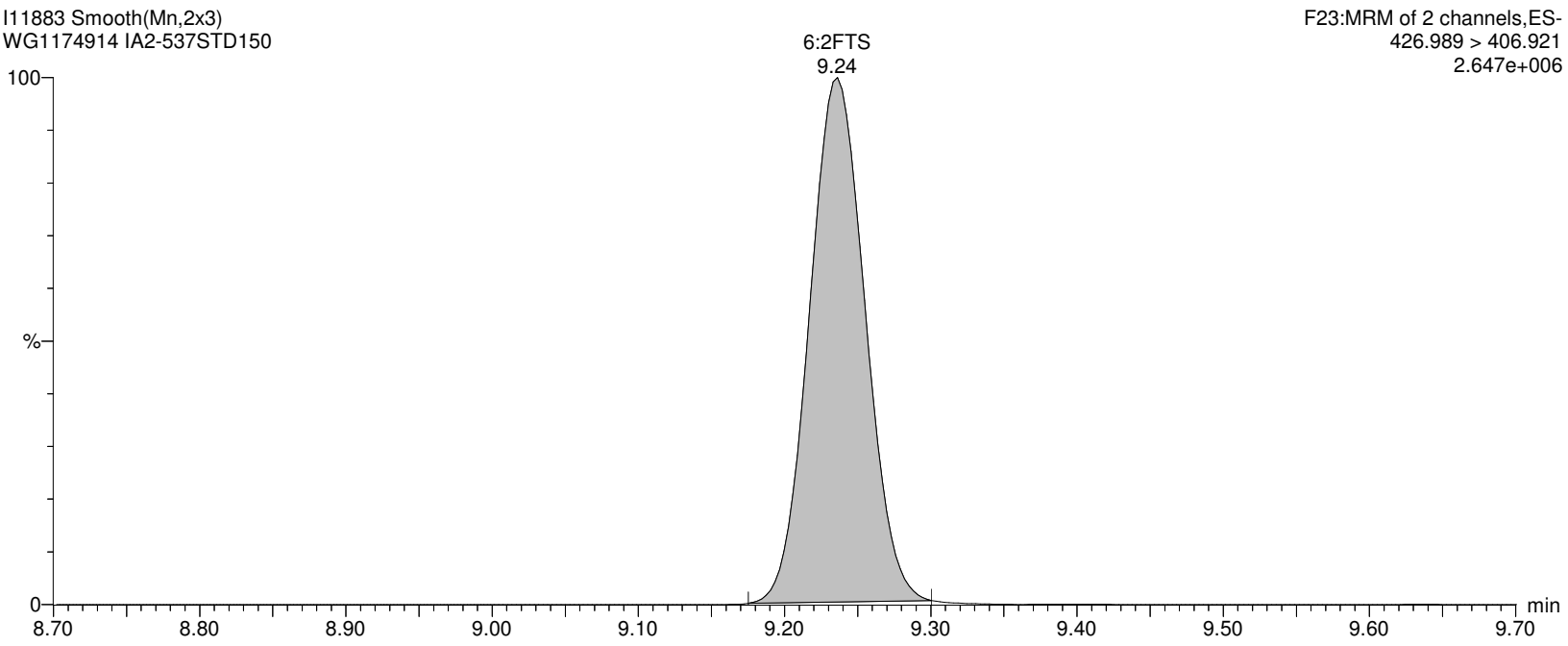
6:2FTS





all concentration units in (ng/mL)

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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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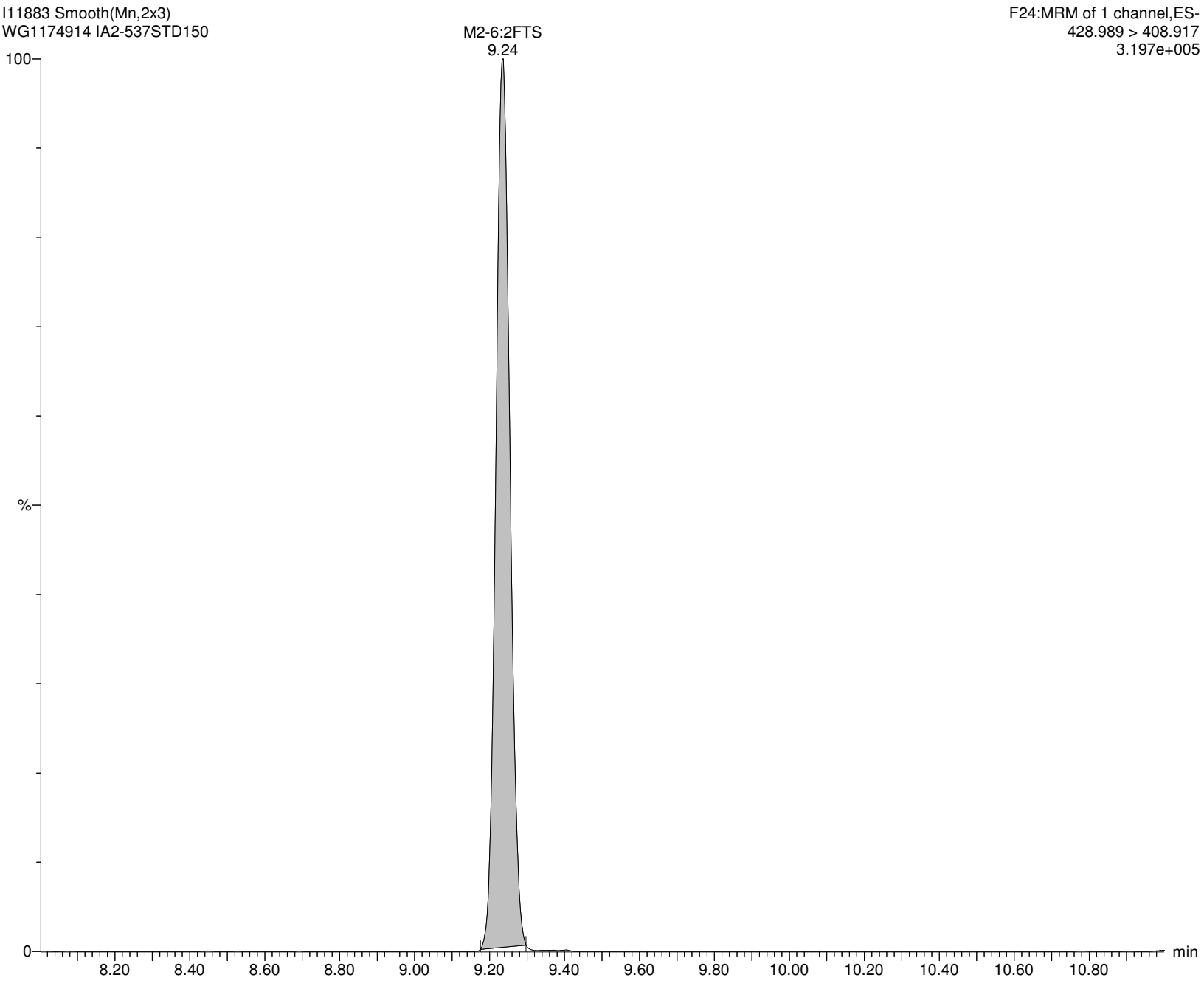
M2-6:2FTS



all concentration units in (ng/mL)

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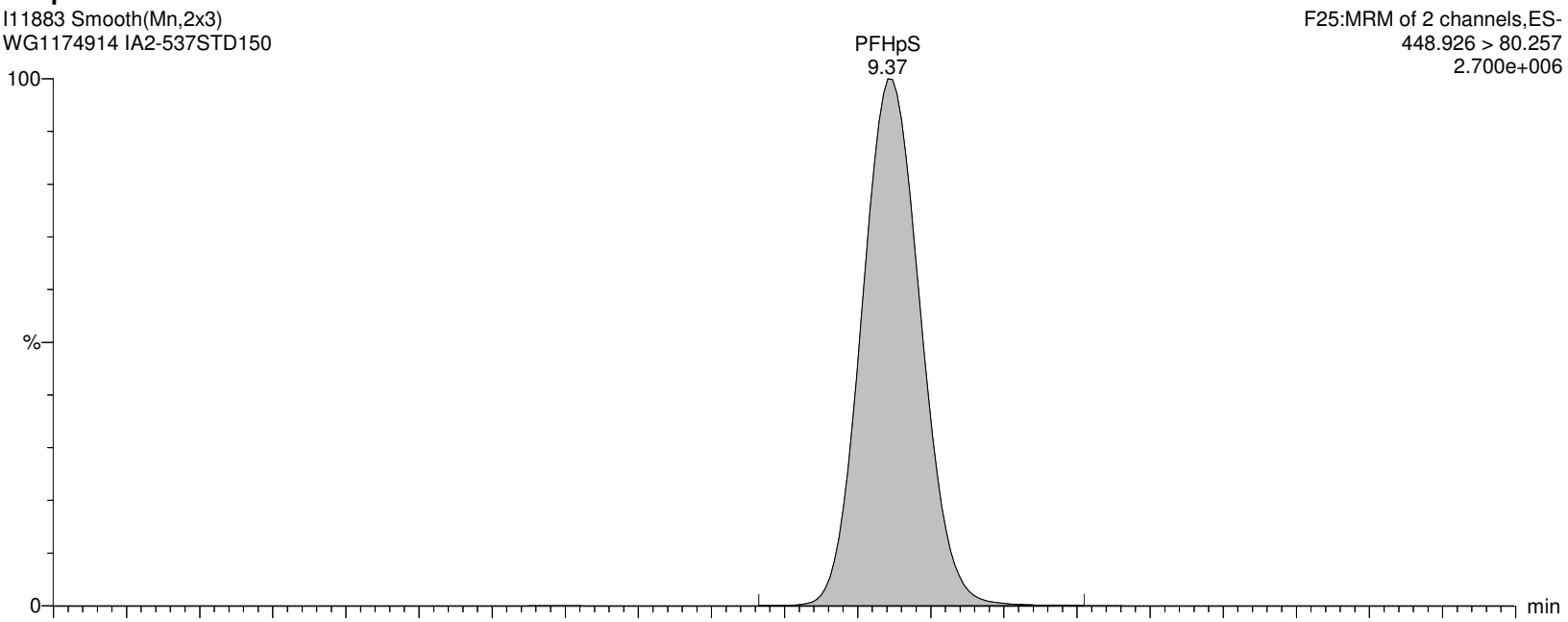

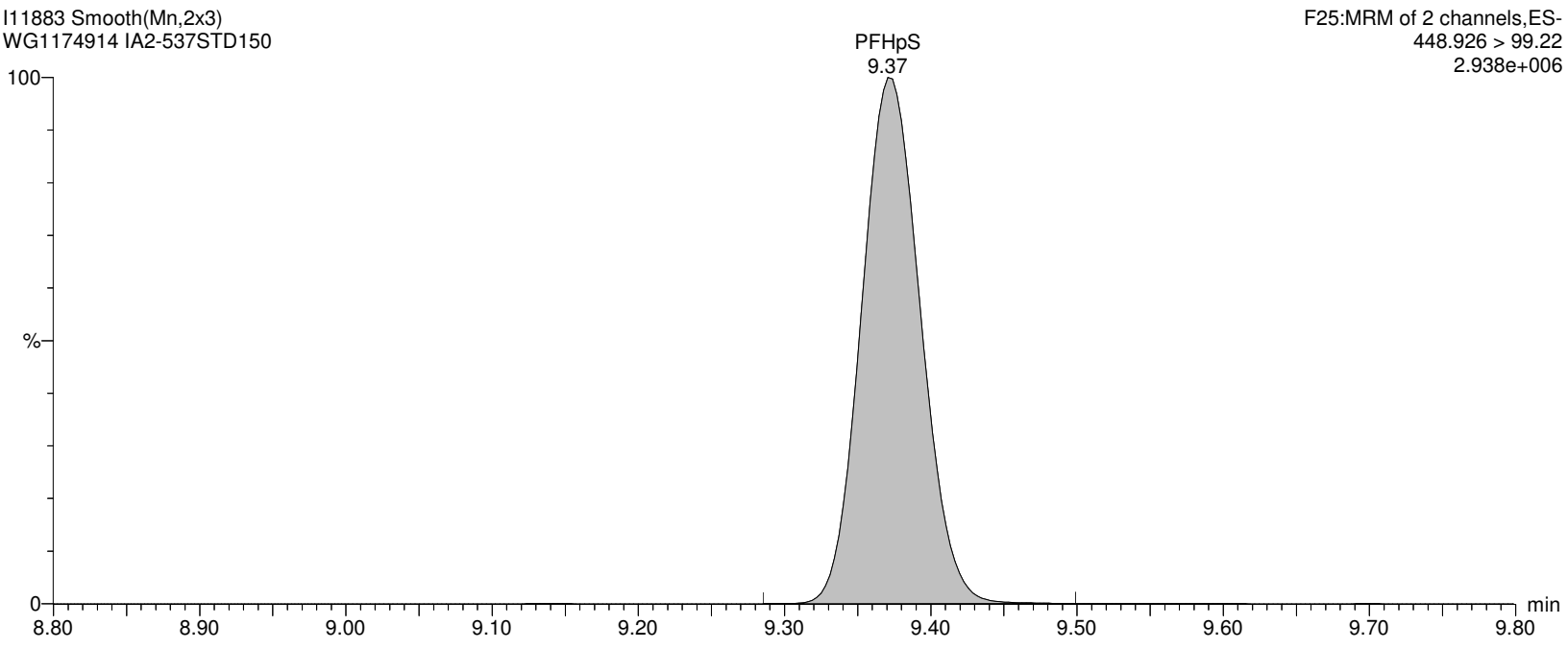

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

Name: I11883
ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
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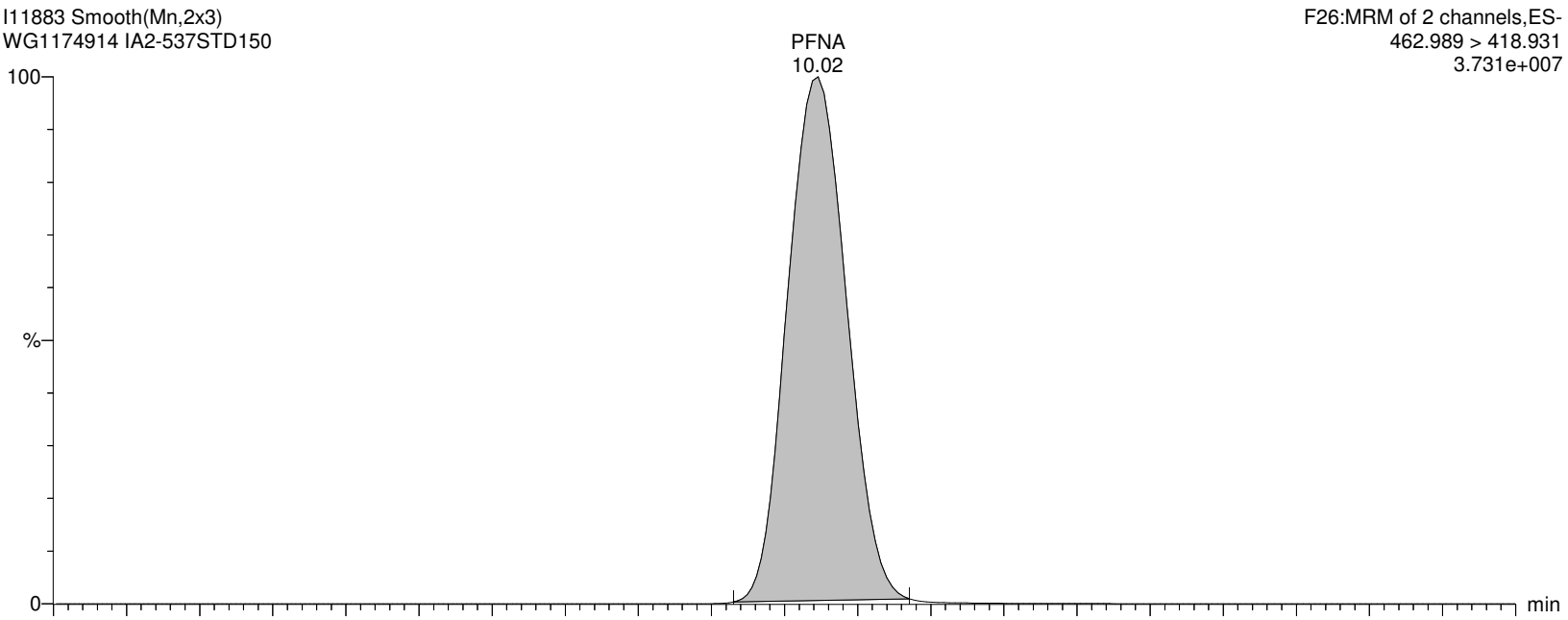

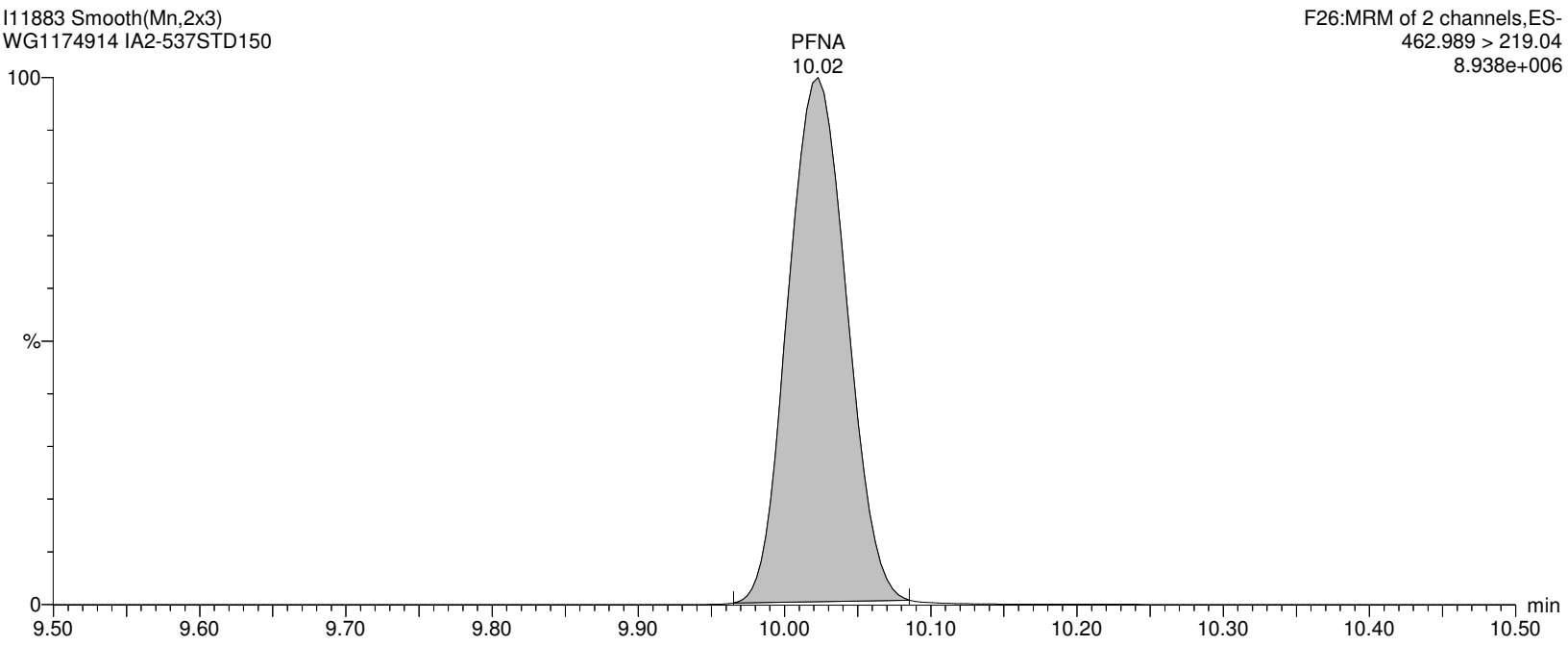

all concentration units in (ng/mL)

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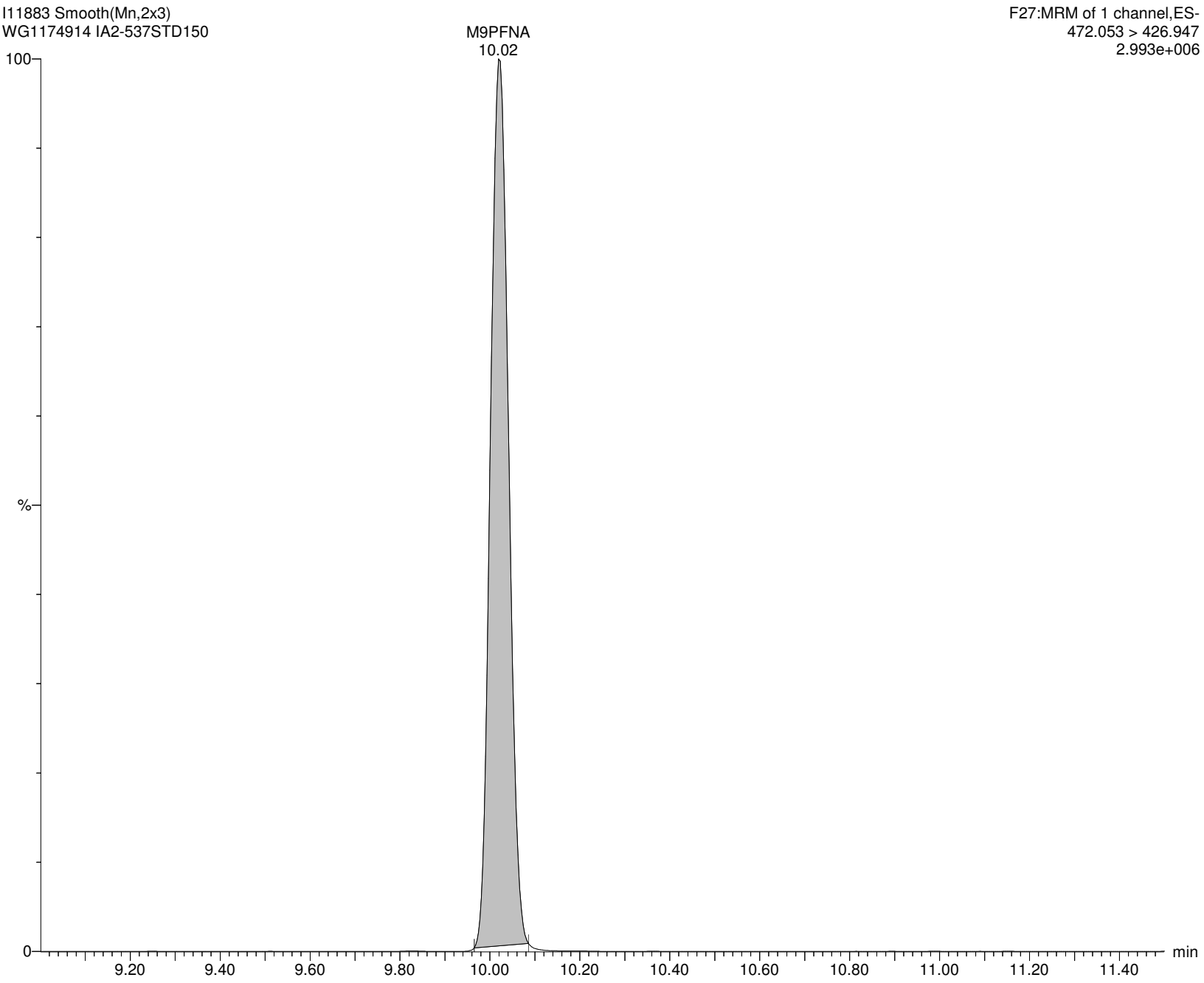

all concentration units in (ng/mL)

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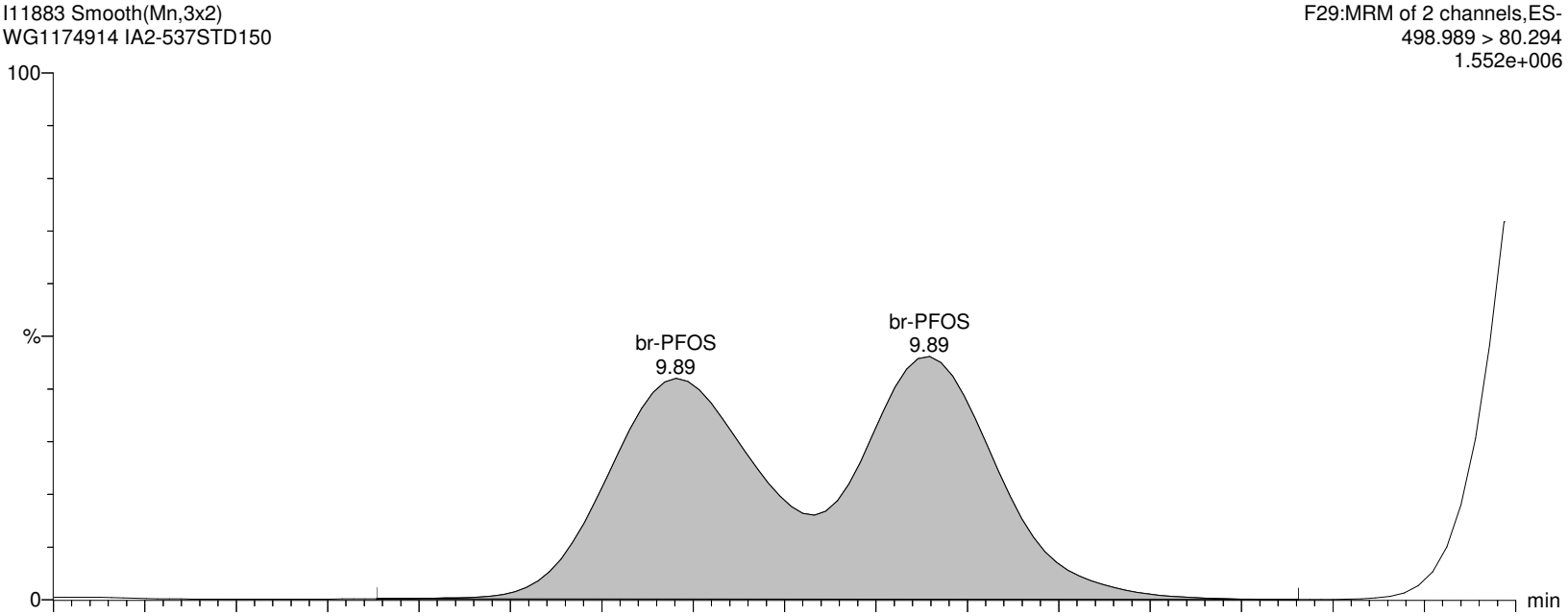

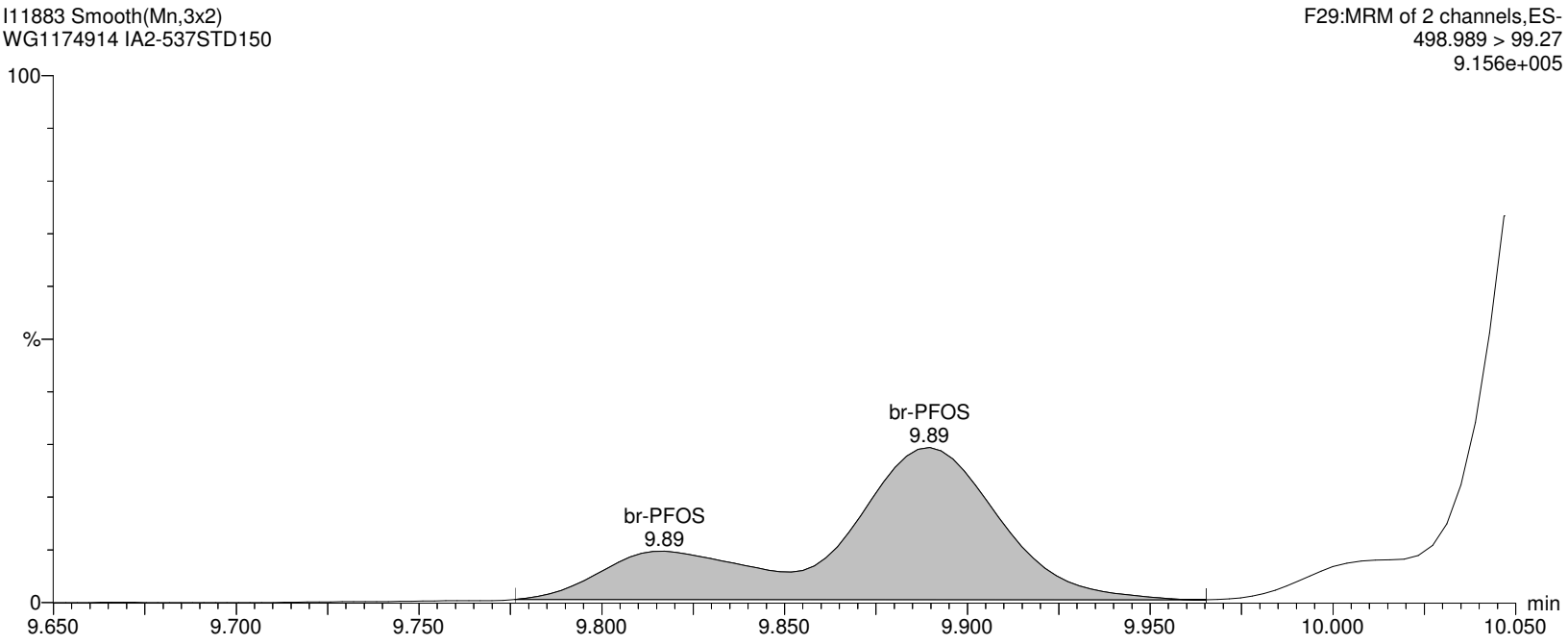

all concentration units in (ng/mL)

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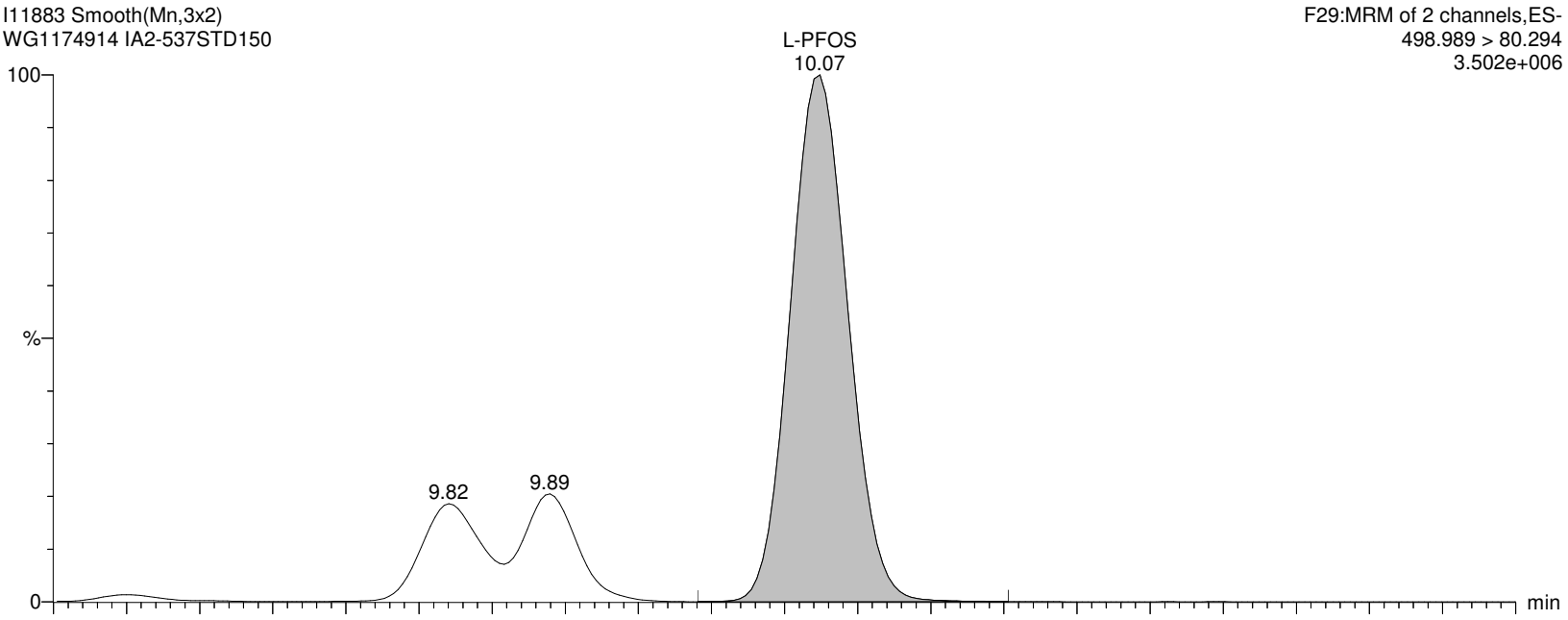

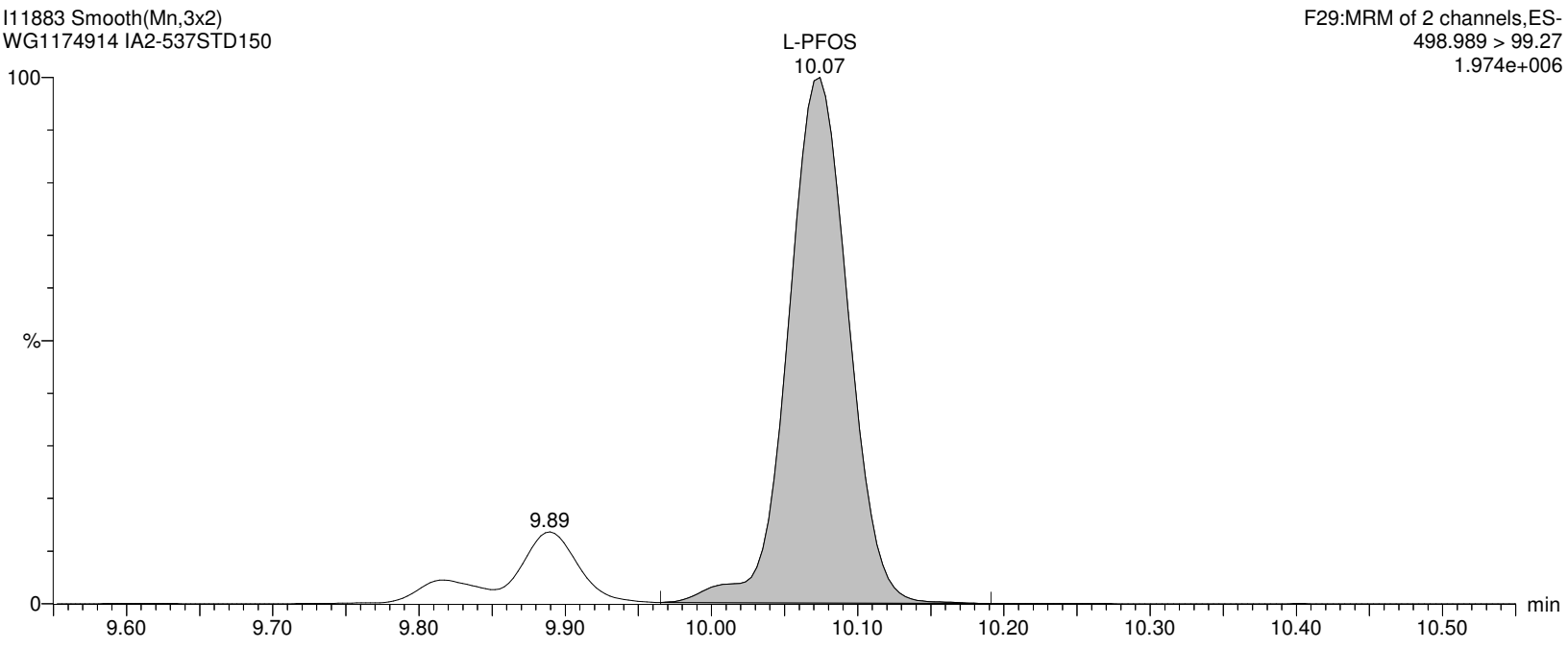

all concentration units in (ng/mL)

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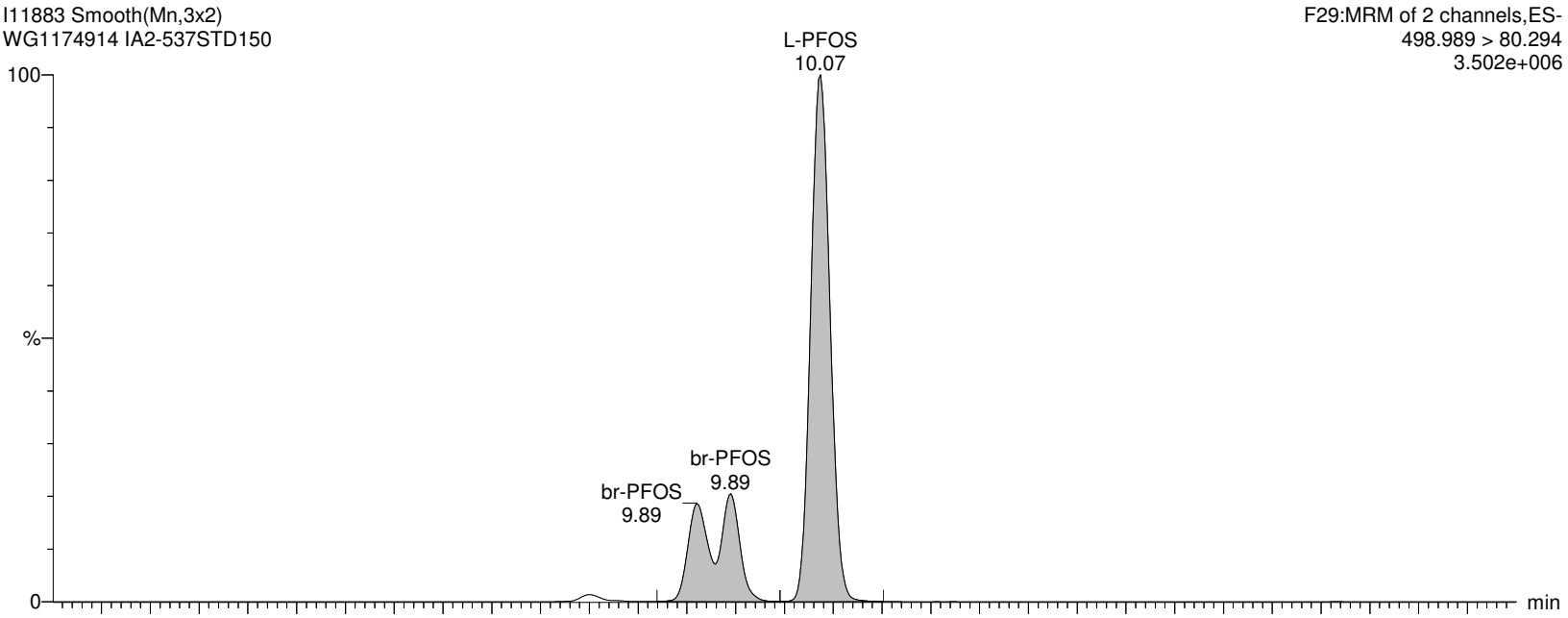

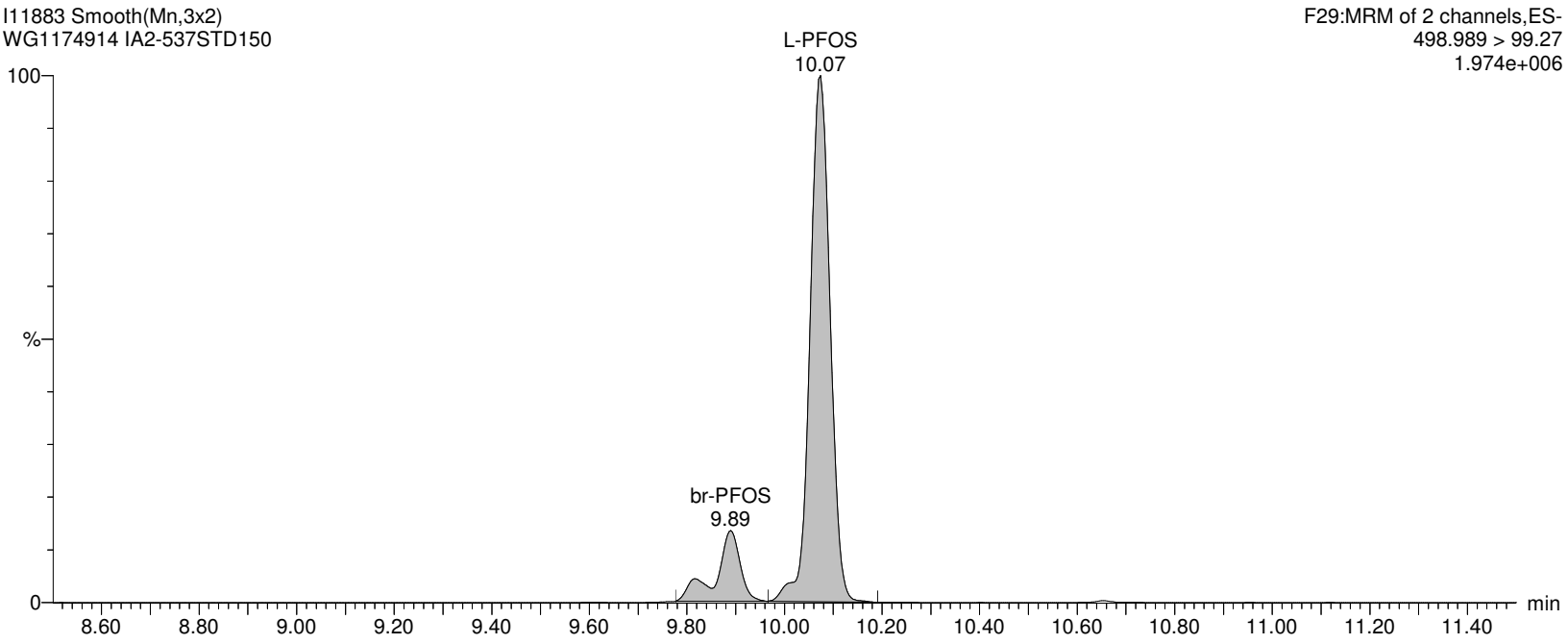

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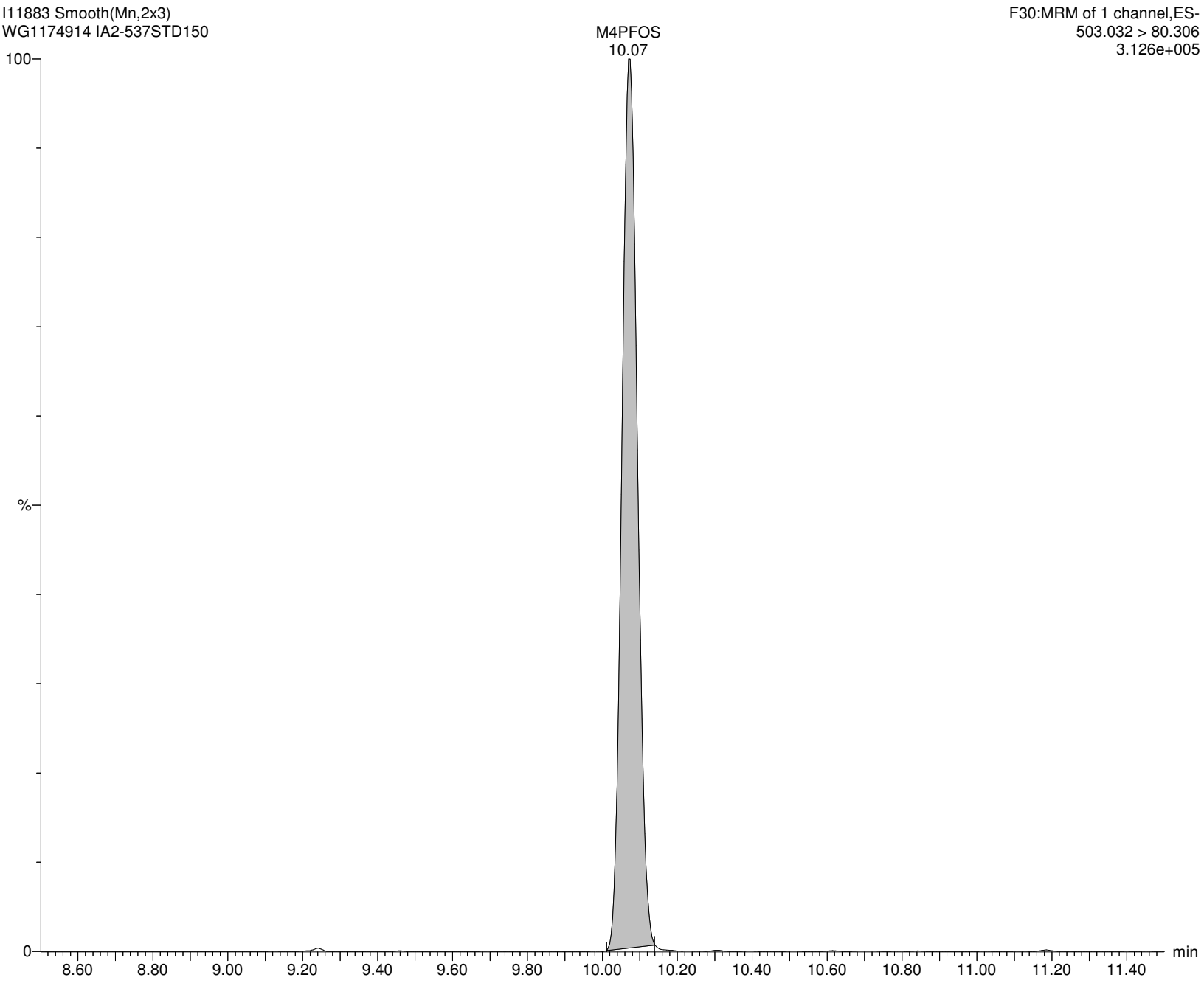

all concentration units in (ng/mL)

Alpha Analytical Inc.
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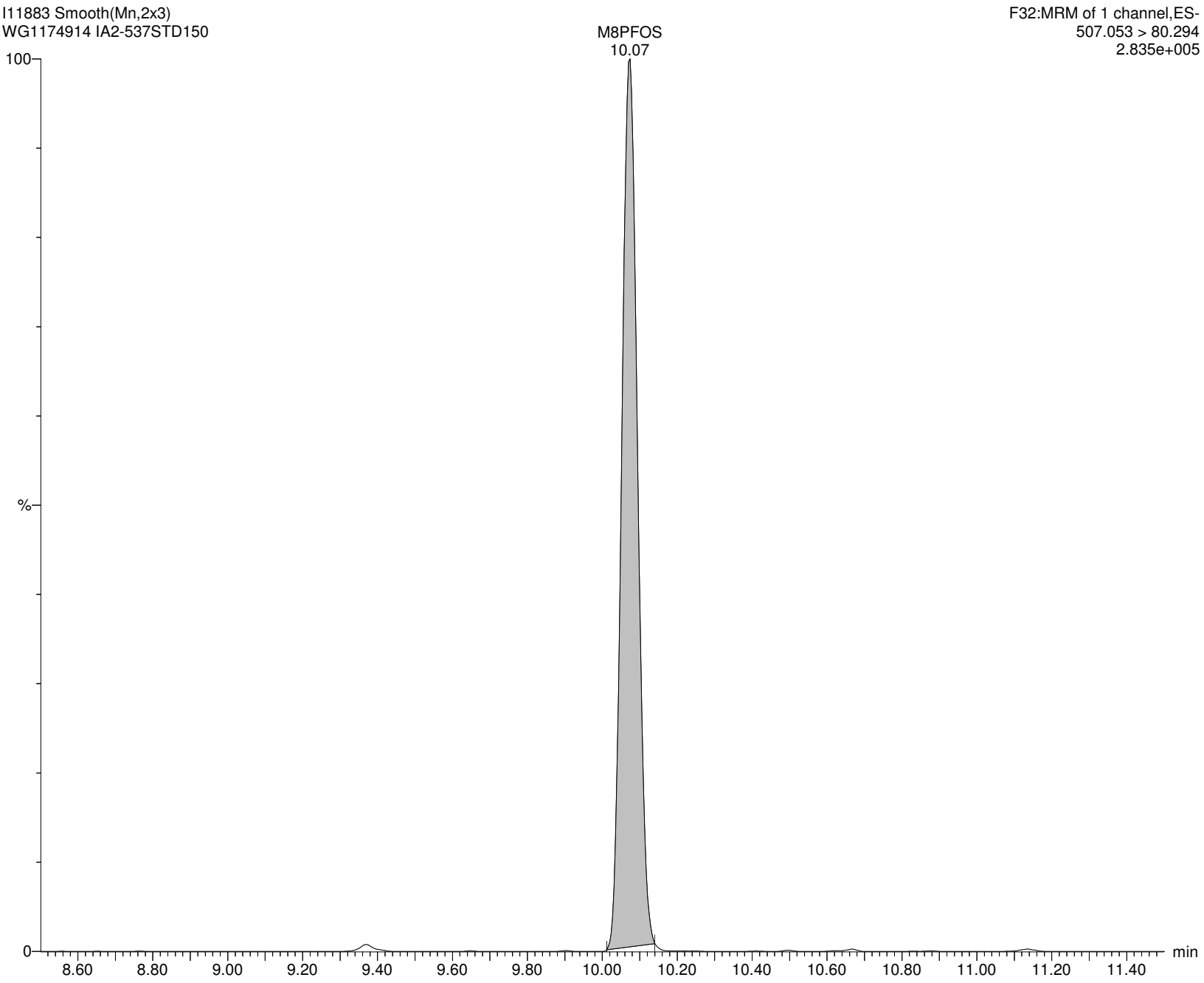

all concentration units in (ng/mL)

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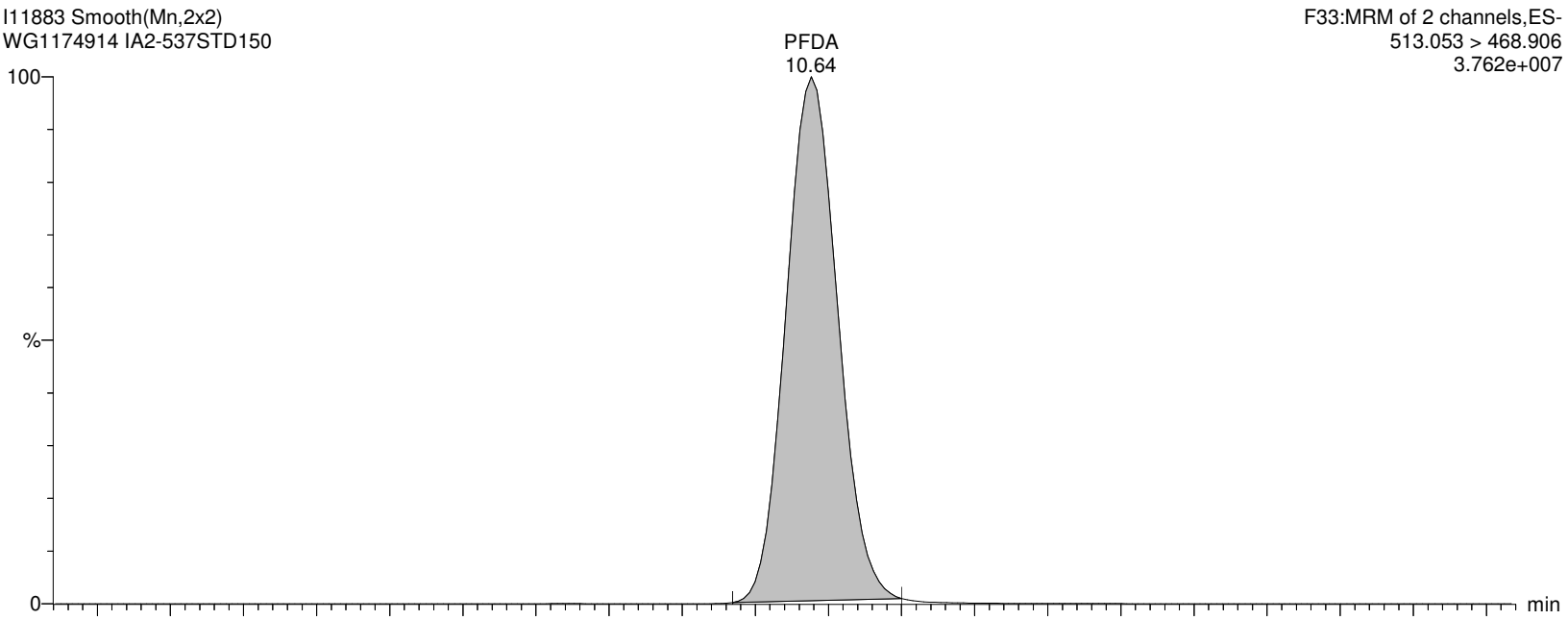

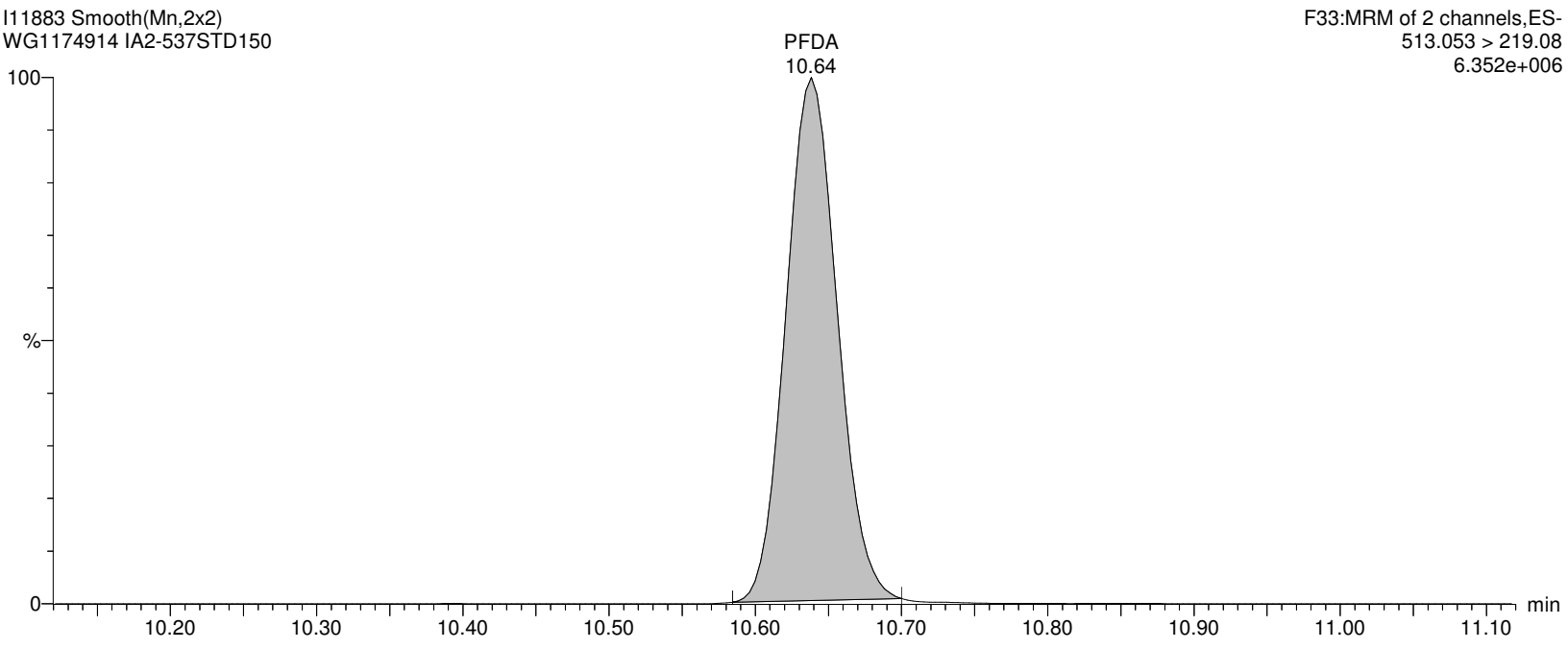

all concentration units in (ng/mL)

Alpha Analytical Inc.
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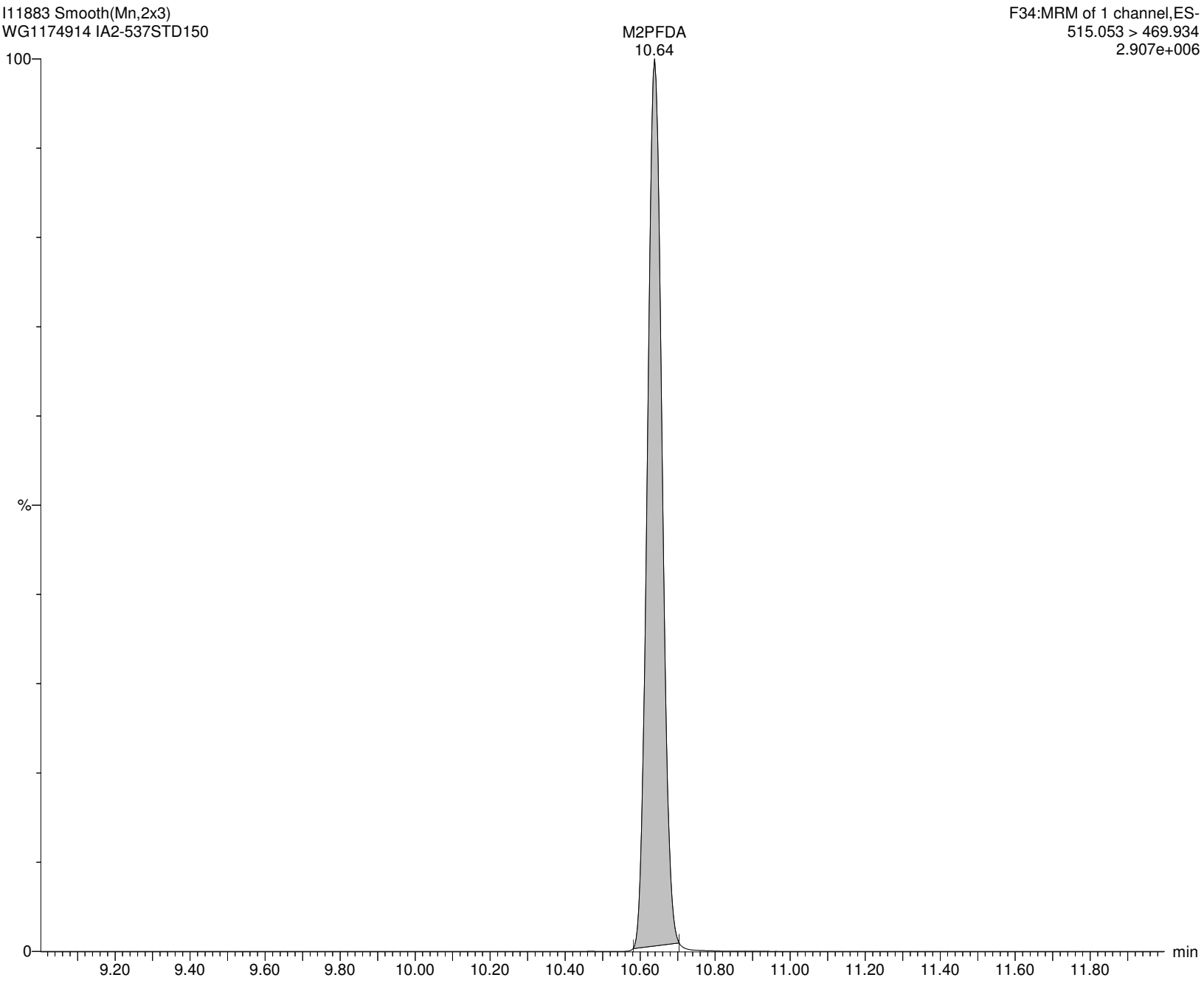

all concentration units in (ng/mL)

Alpha Analytical Inc.
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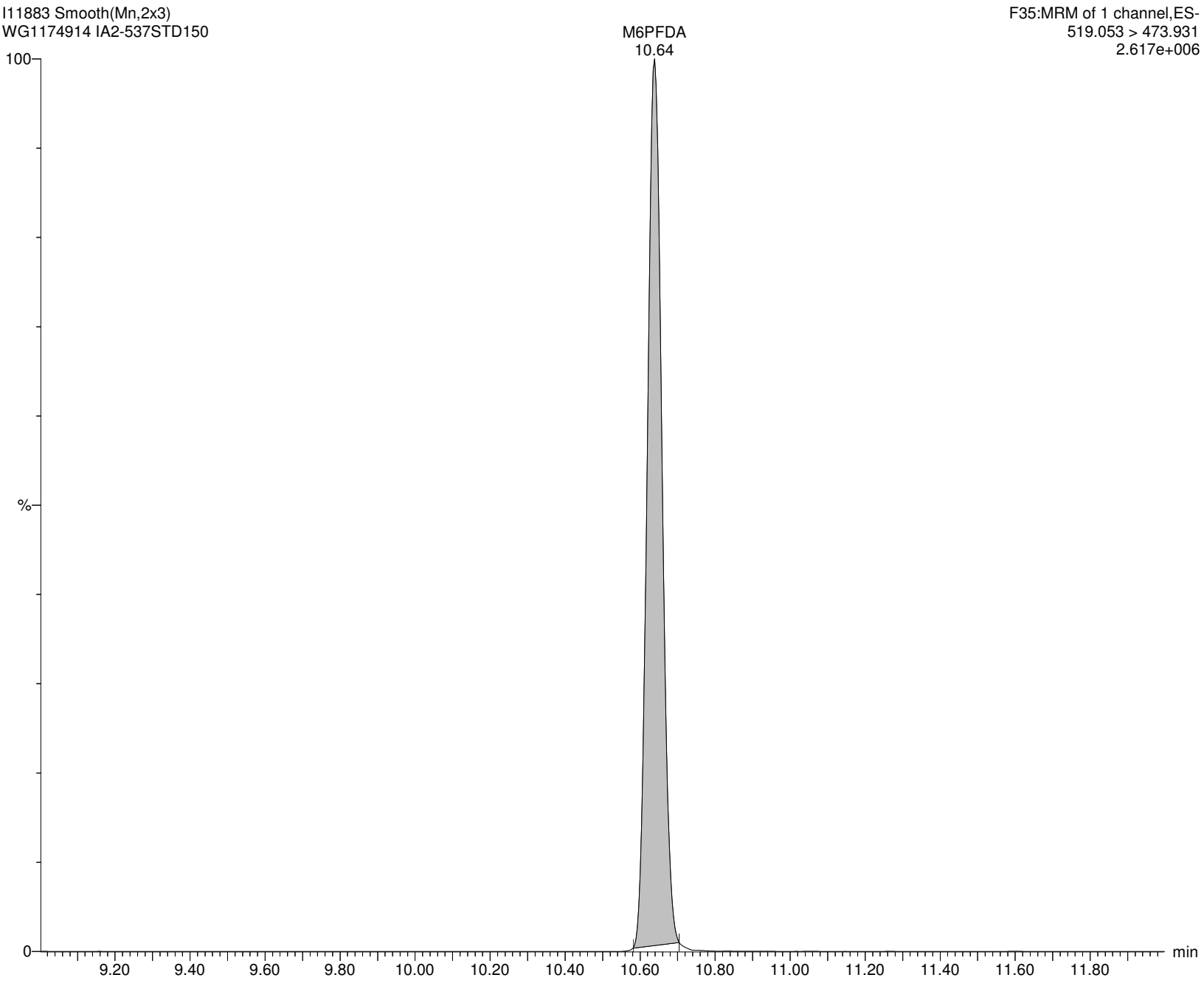

all concentration units in (ng/mL)

Alpha Analytical Inc.
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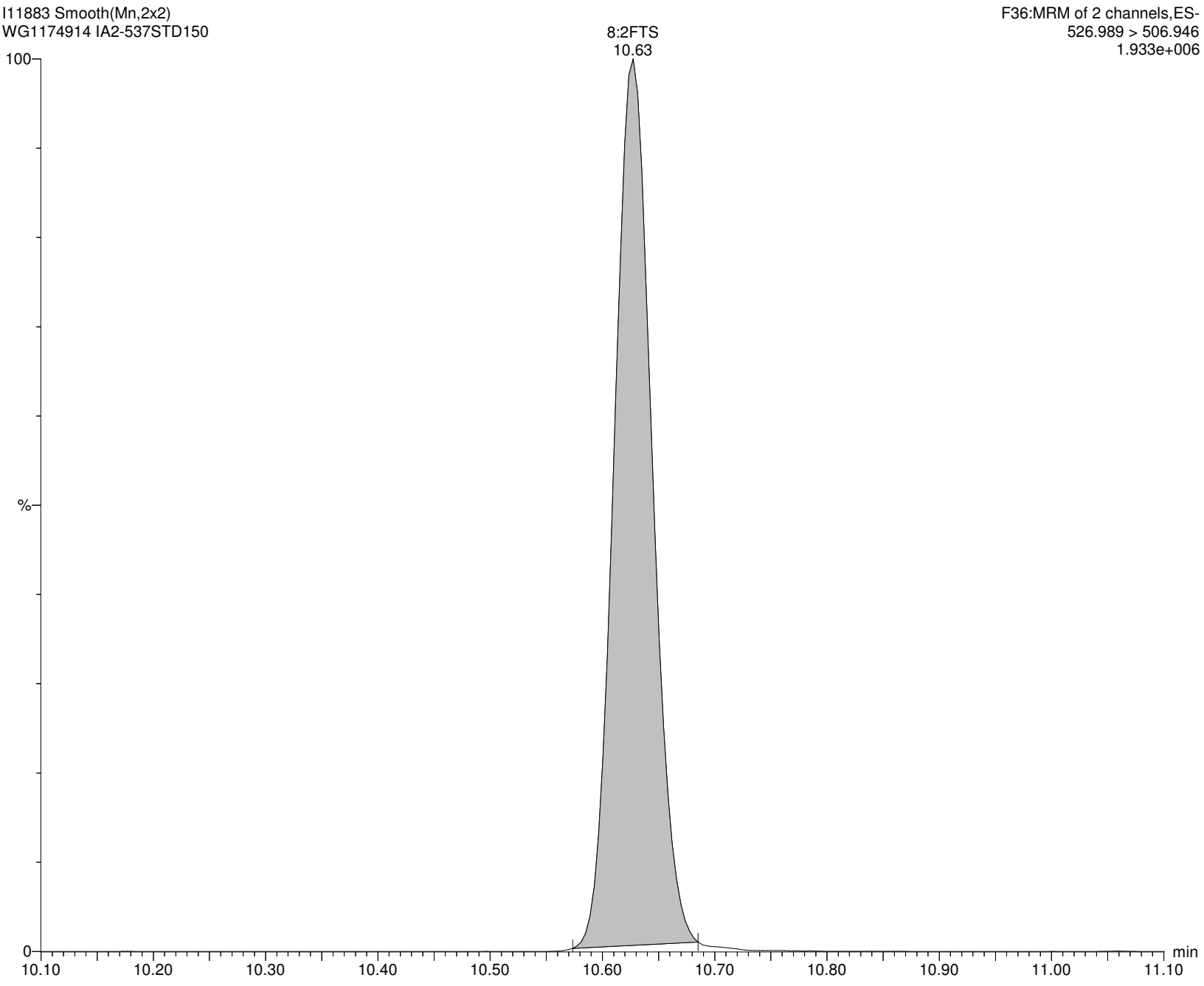

all concentration units in (ng/mL)

Alpha Analytical Inc.
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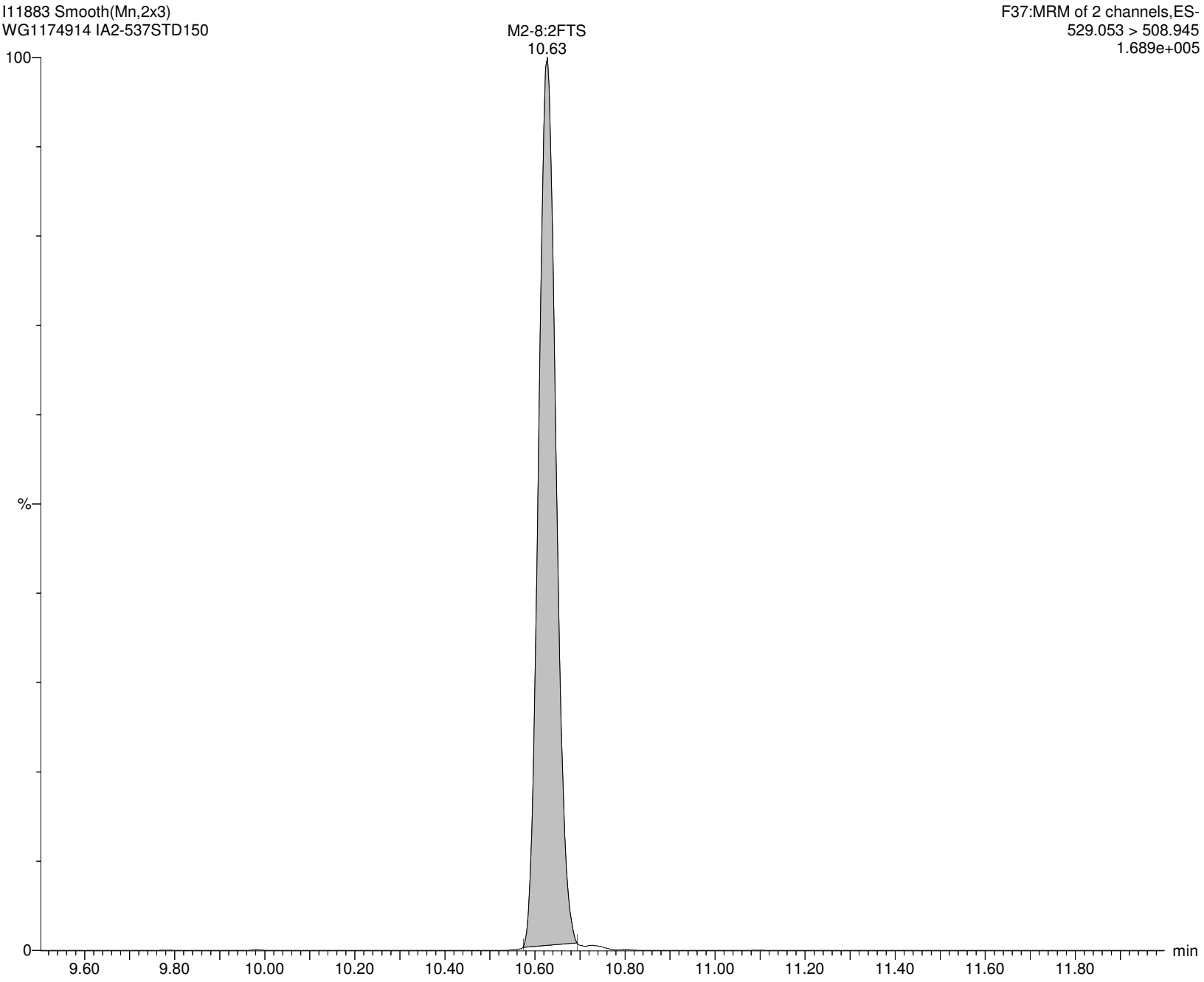

all concentration units in (ng/mL)

Alpha Analytical Inc.
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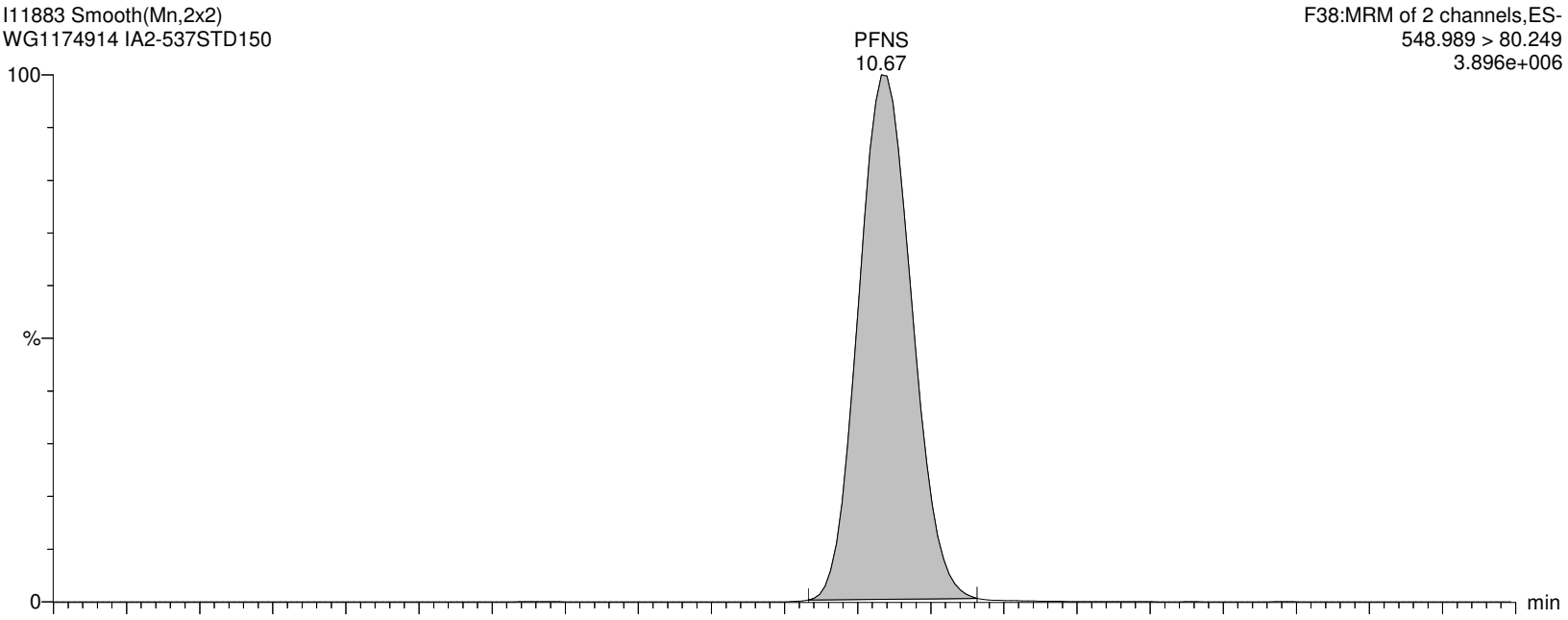

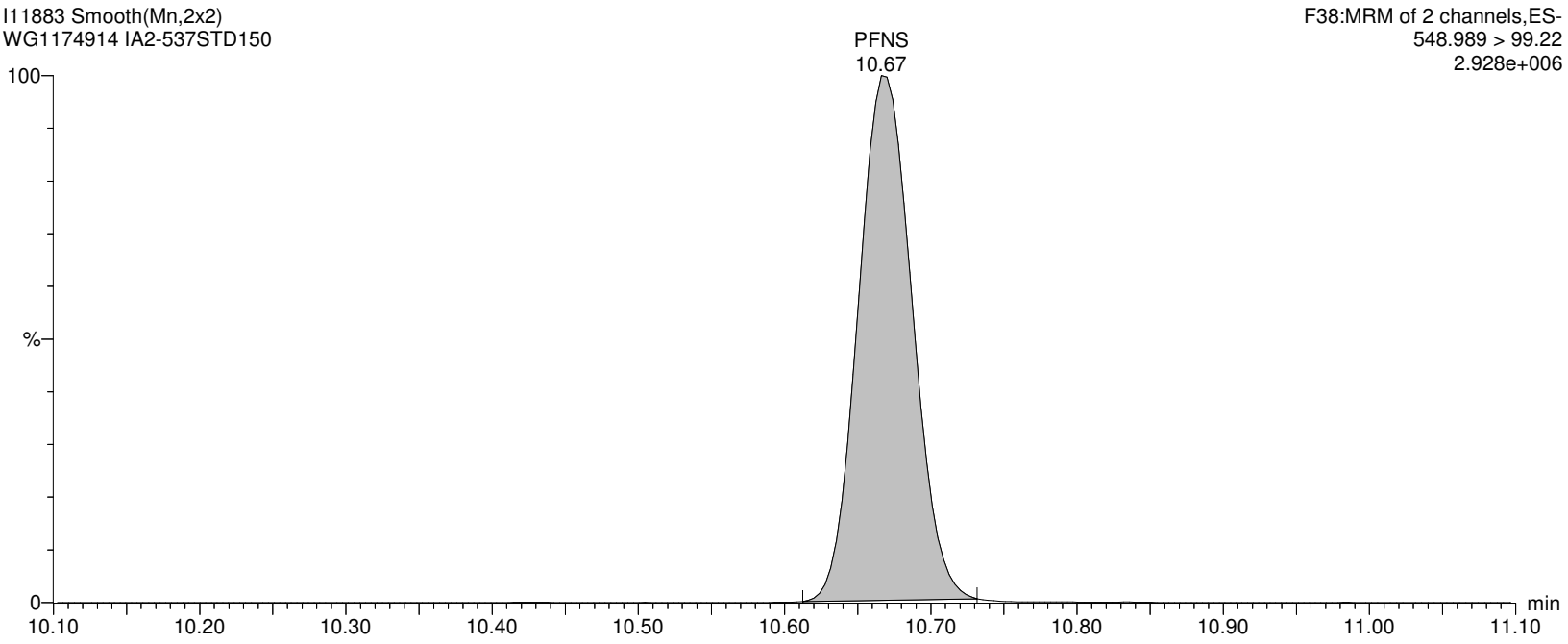

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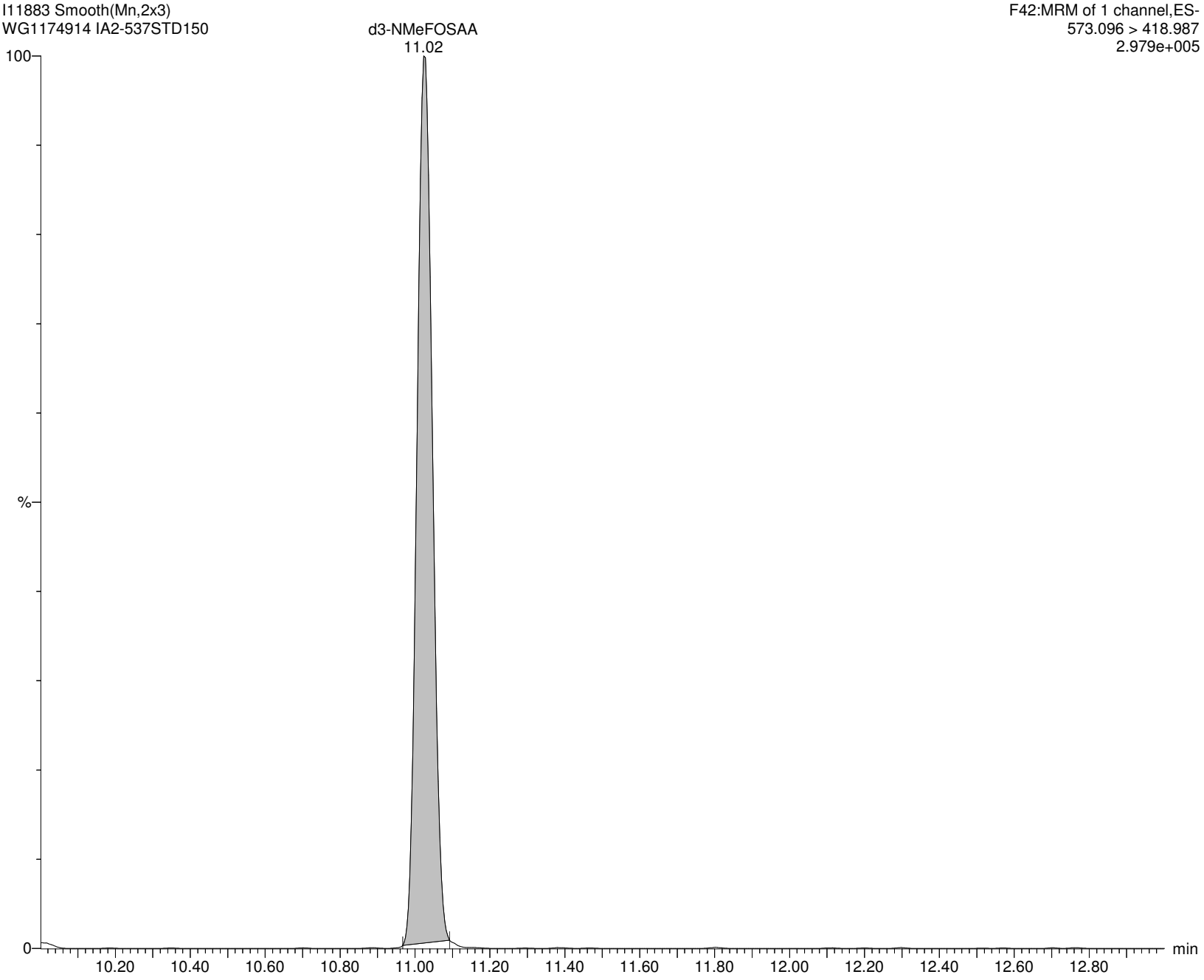

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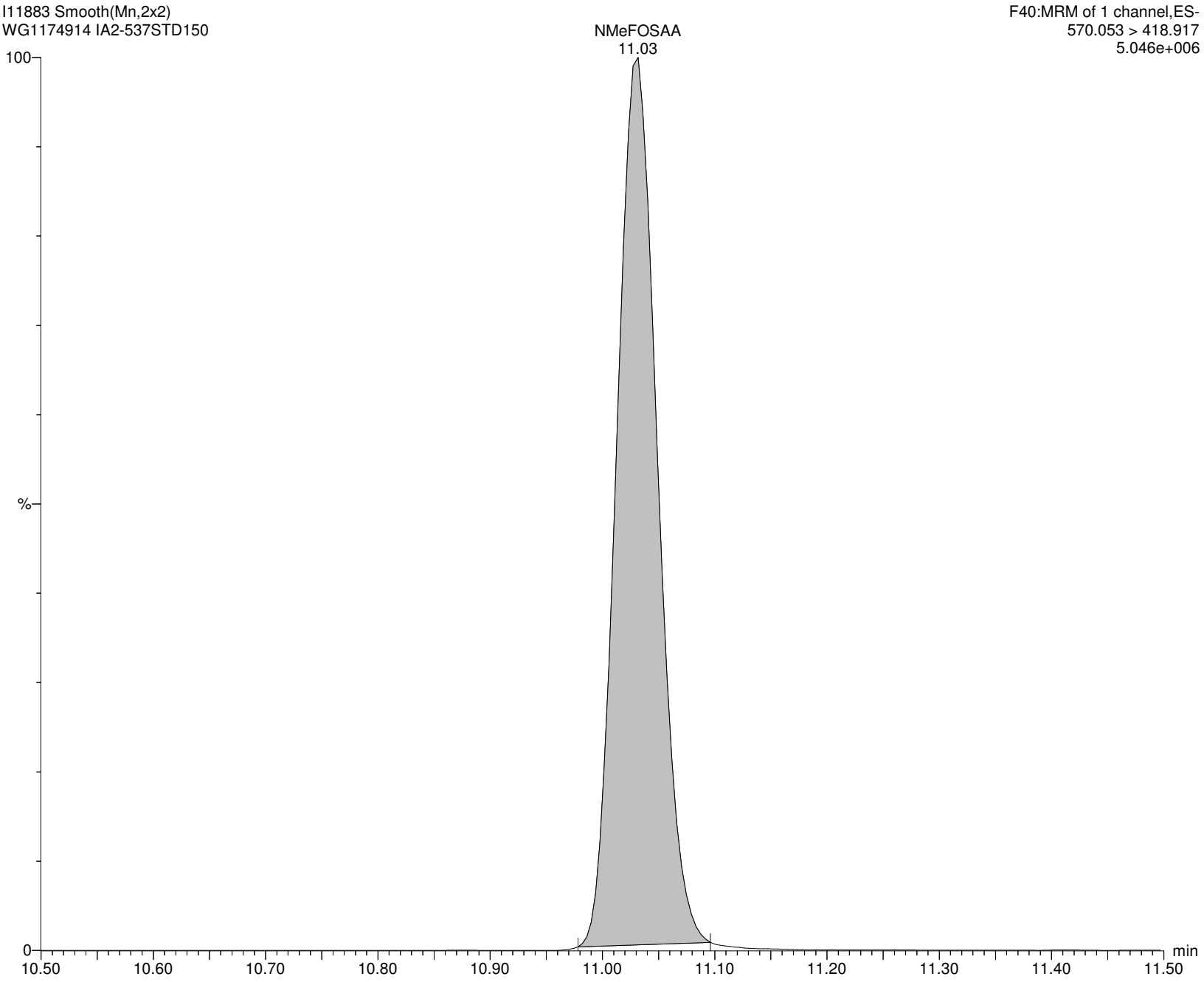

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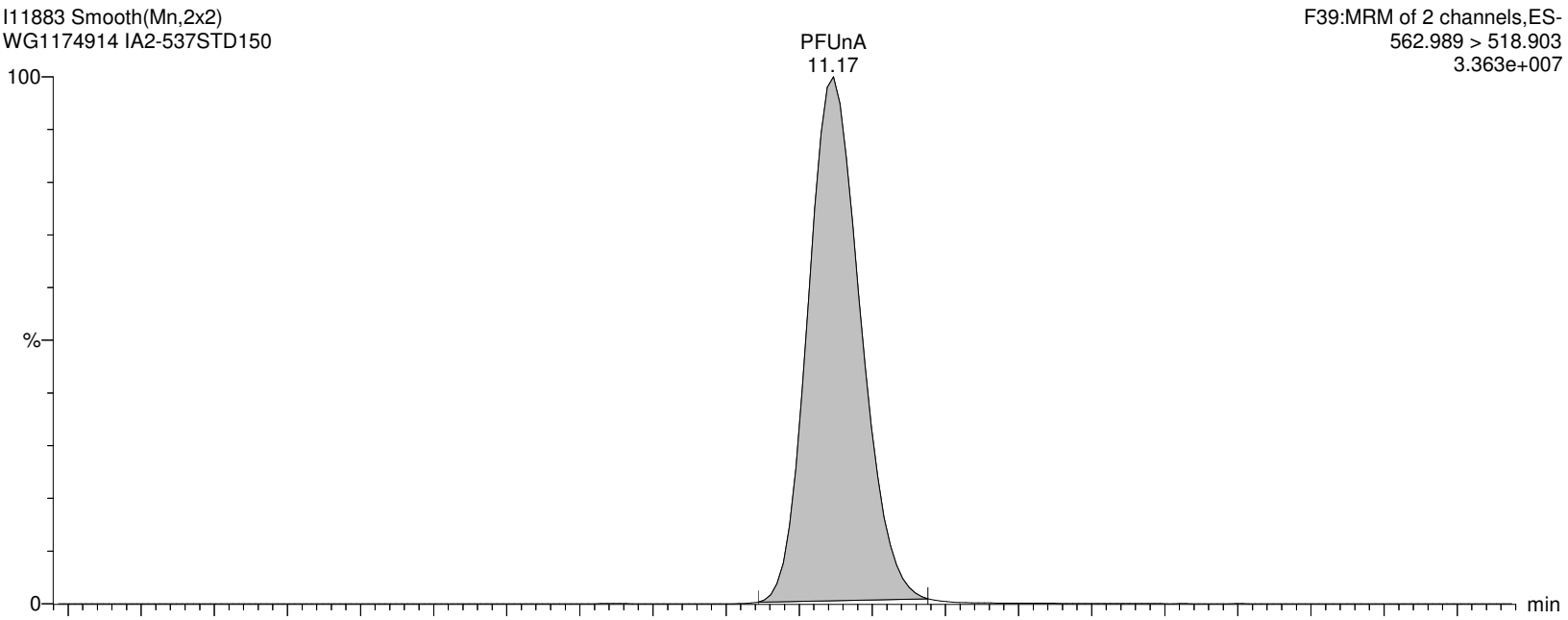

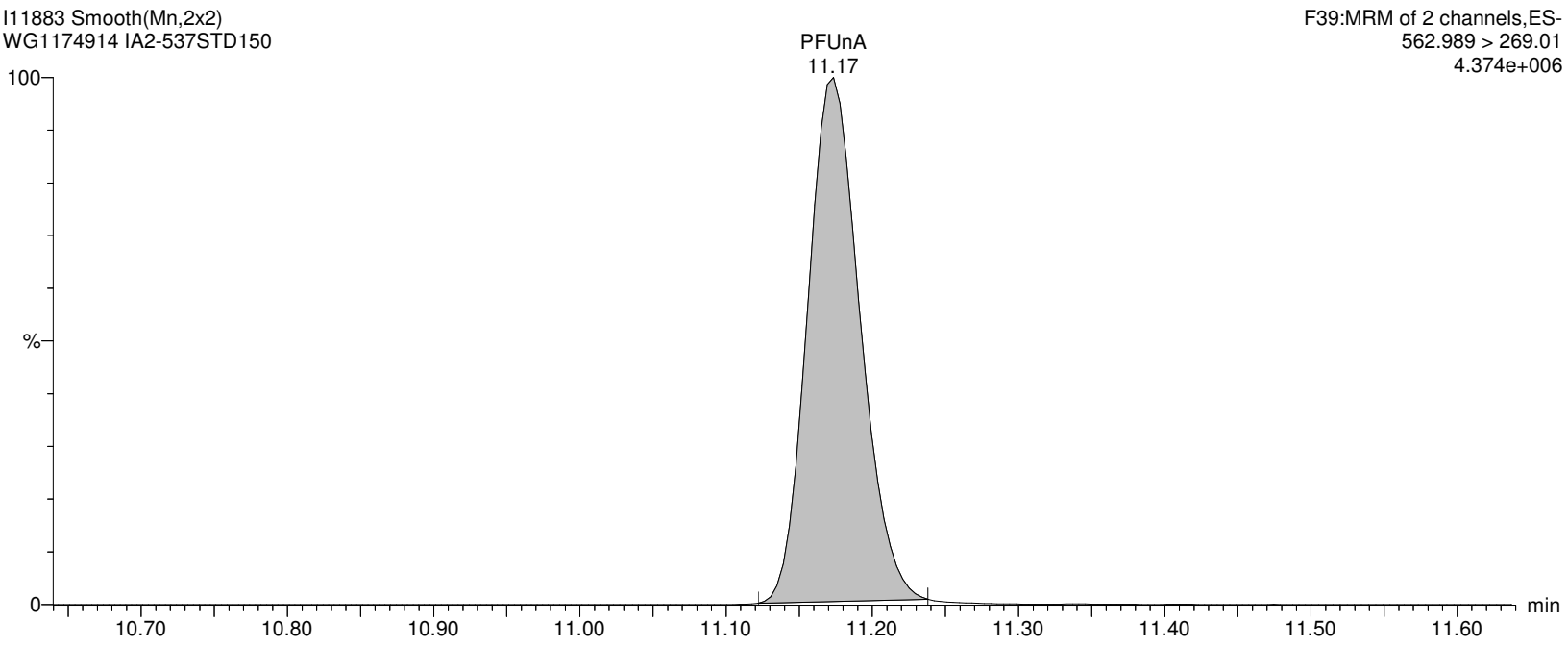

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:26 Eastern Daylight Time

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ID: IA2-537STD150
Date: 01-Nov-2018
Time: 18:25:12
Description: WG1174914
User: LCMS01:AJ
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
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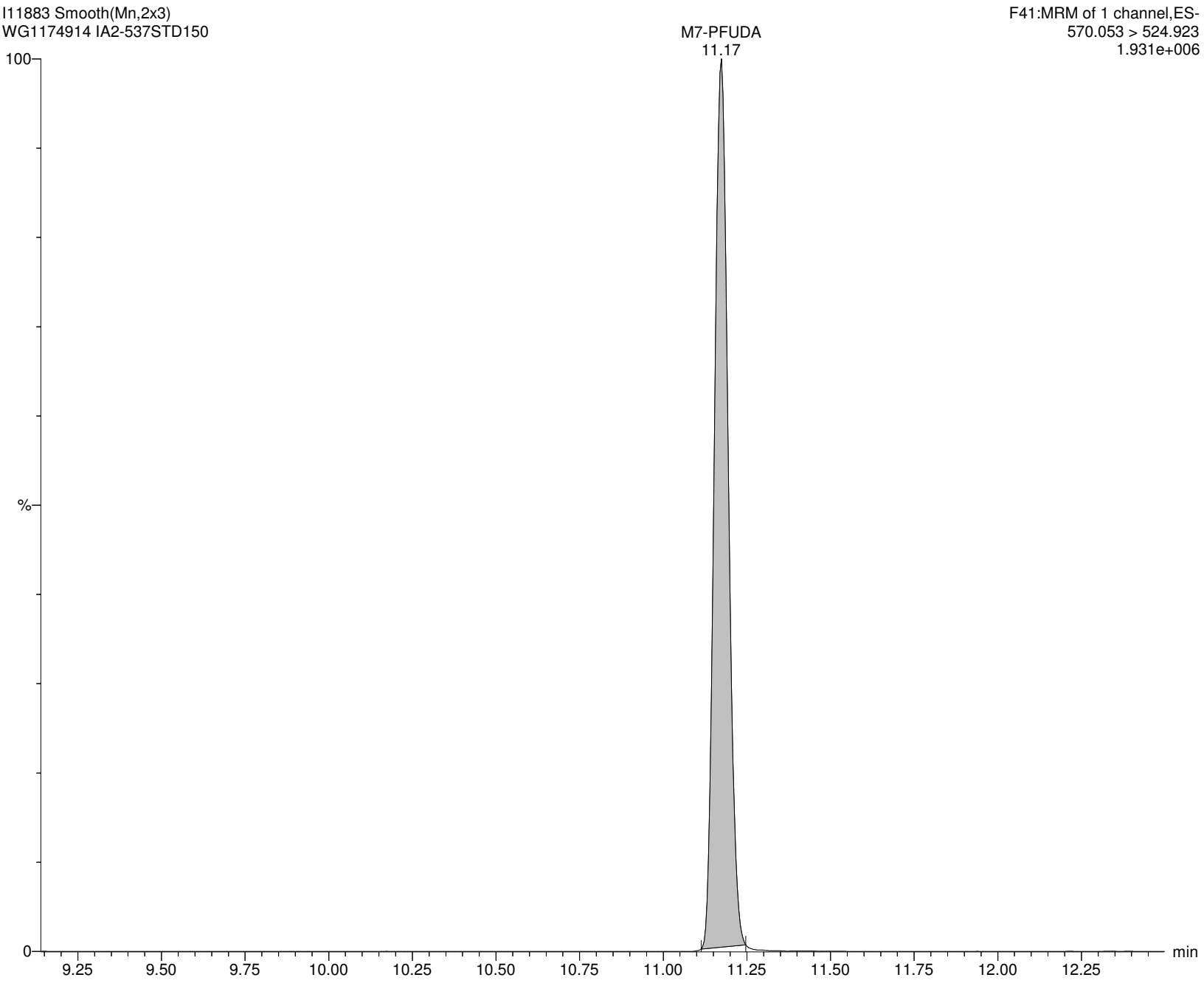

all concentration units in (ng/mL)

Alpha Analytical Inc.
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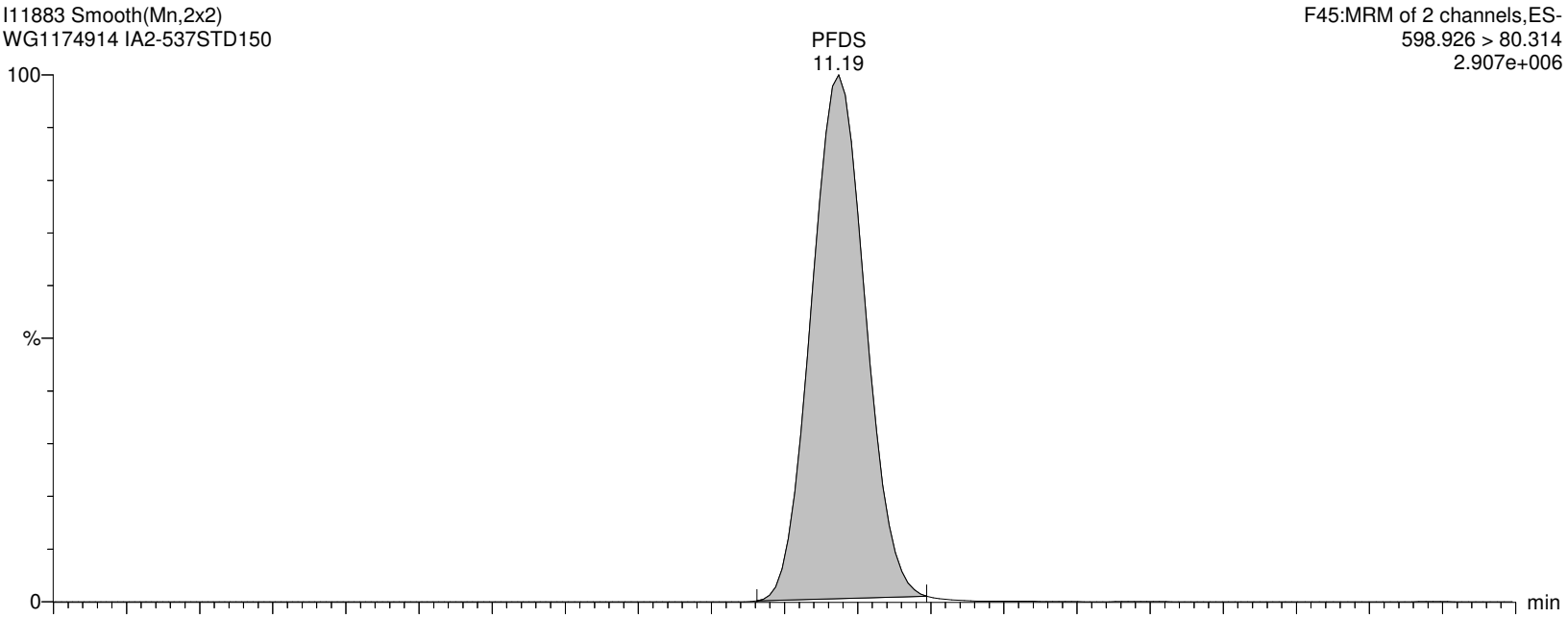

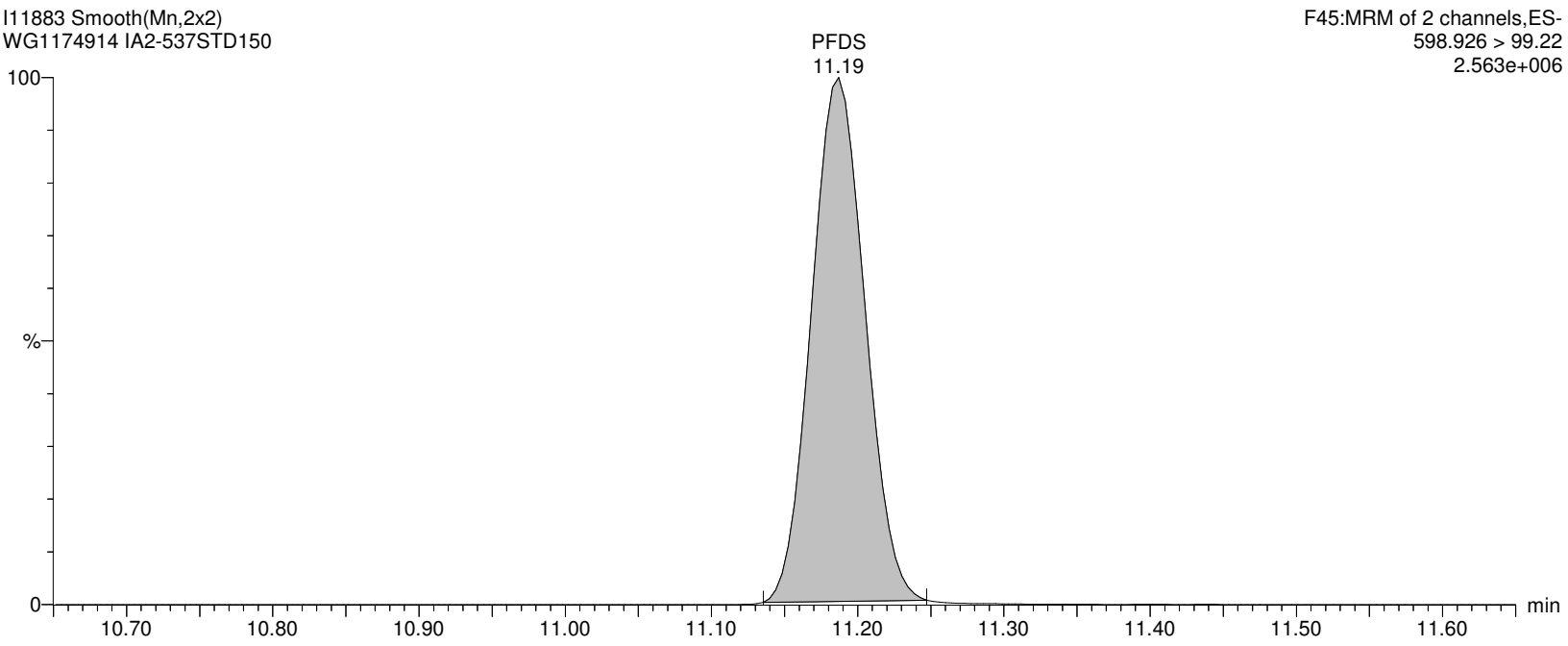

all concentration units in (ng/mL)

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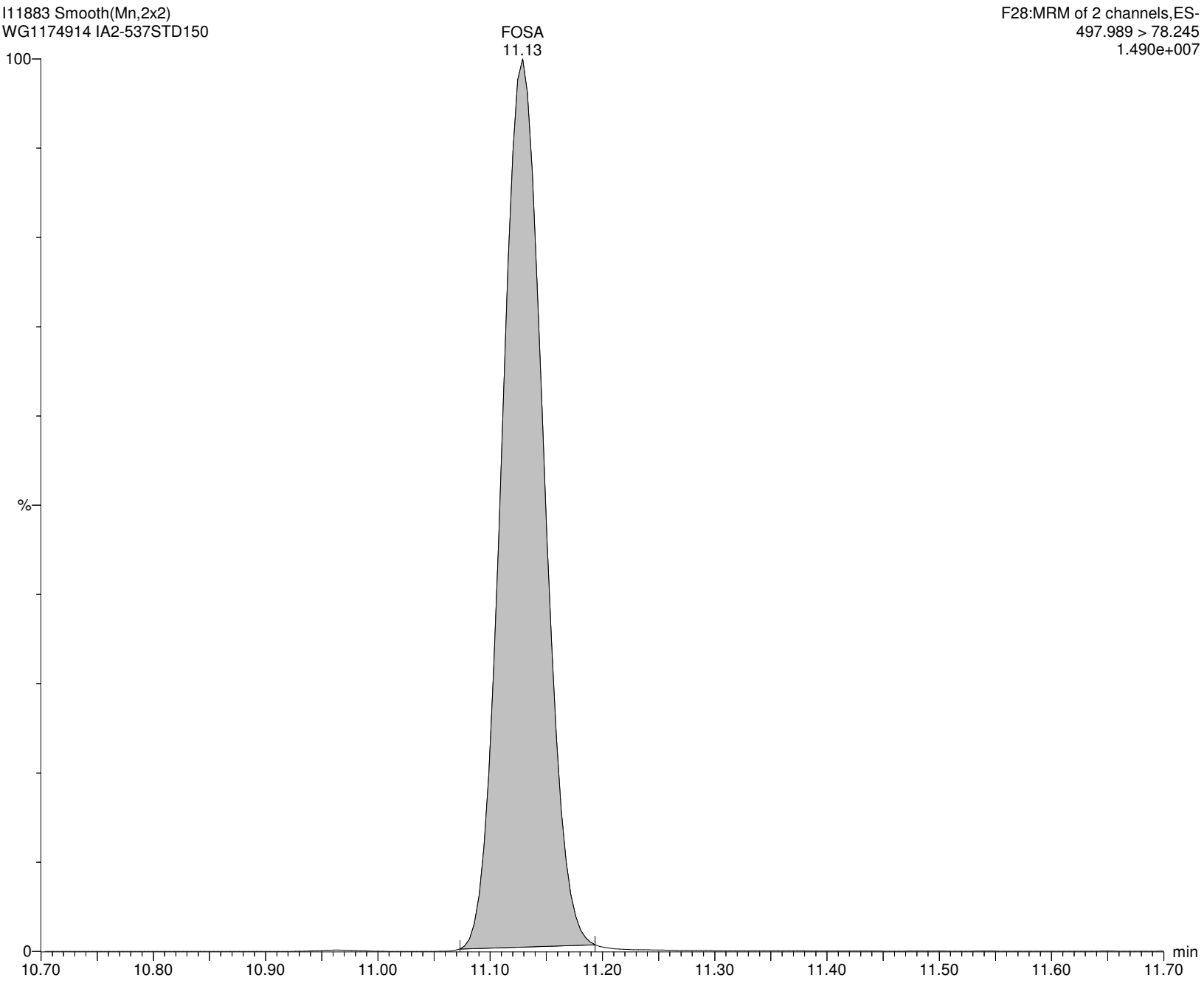

all concentration units in (ng/mL)

Alpha Analytical Inc.
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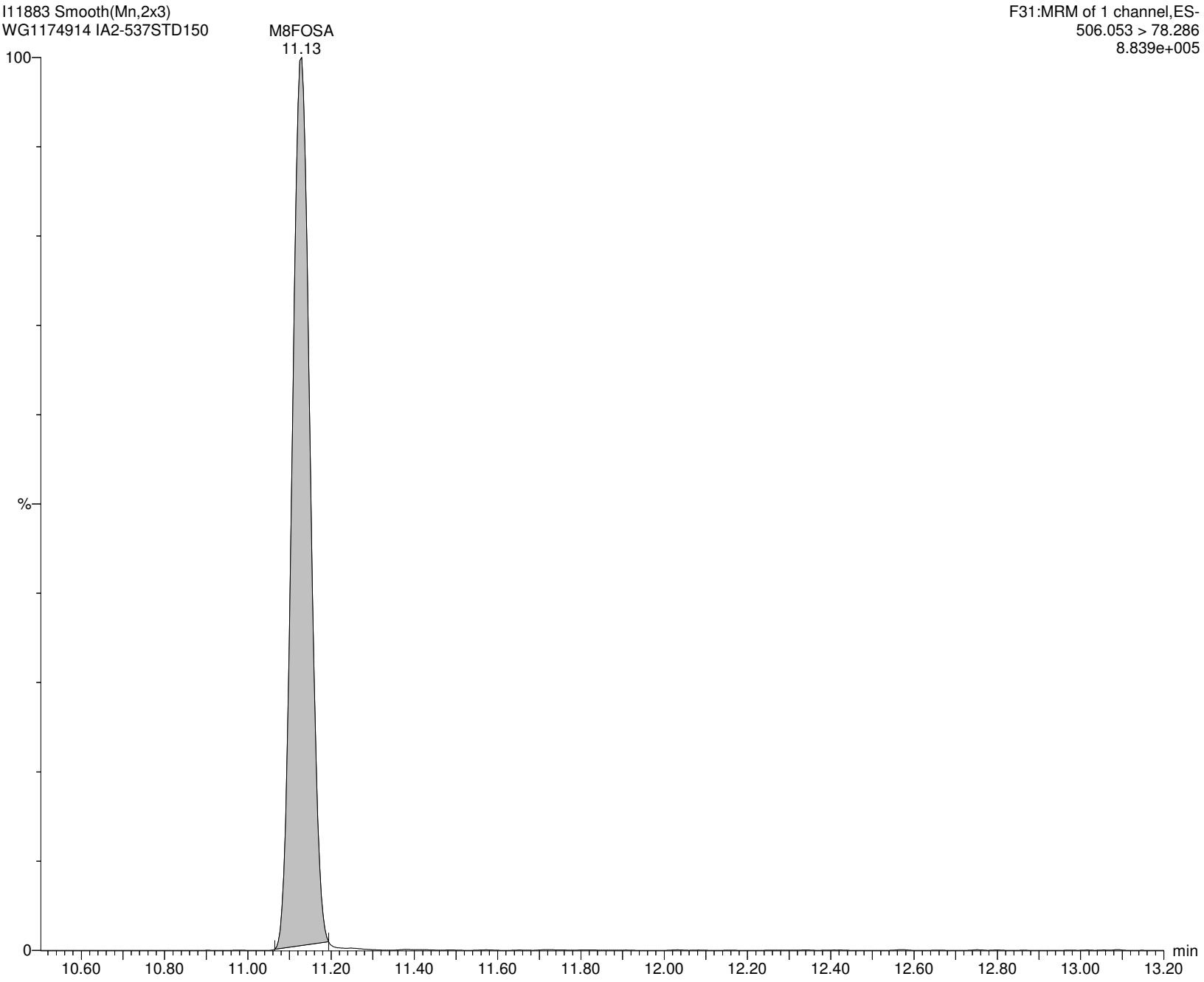

all concentration units in (ng/mL)

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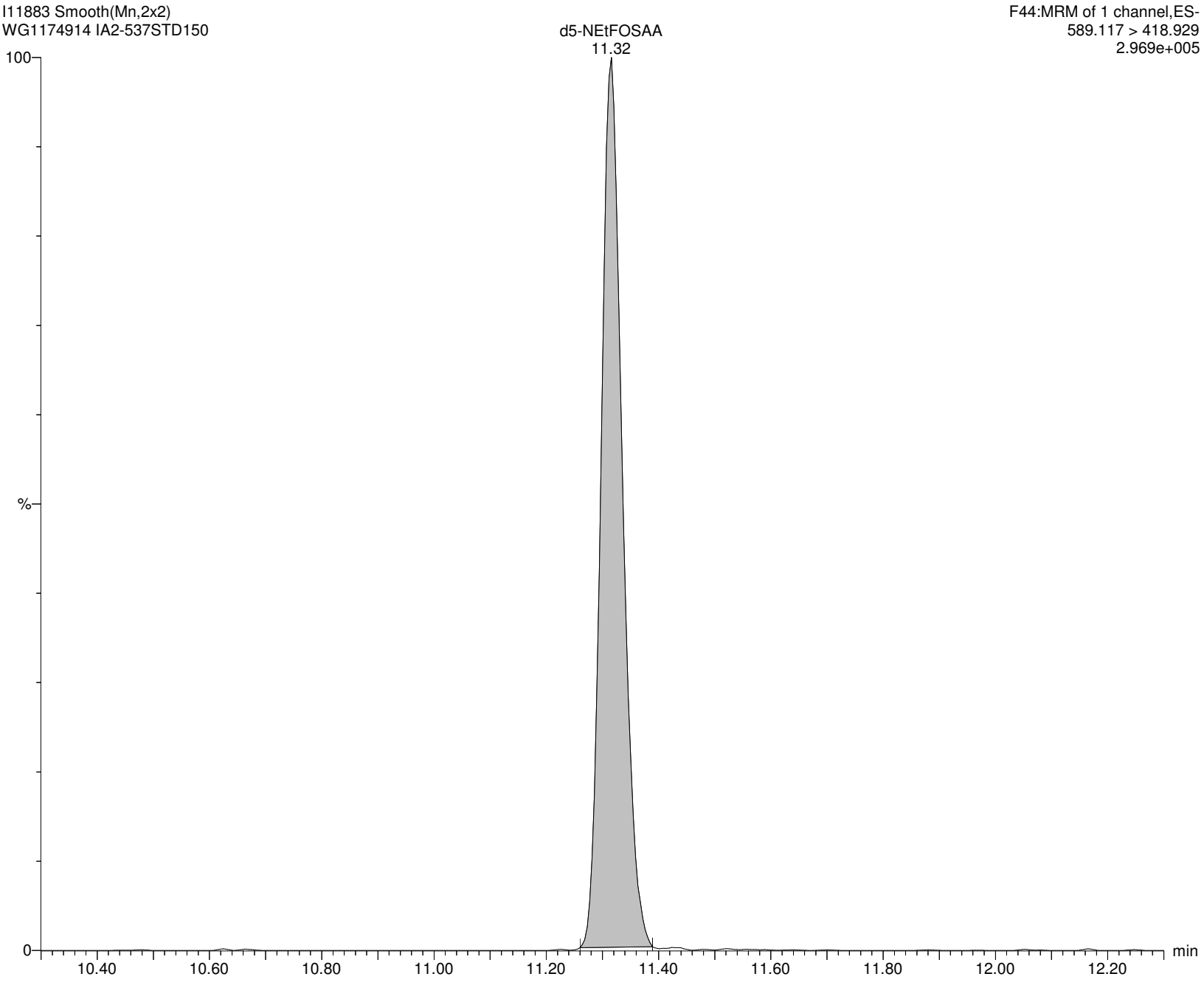

all concentration units in (ng/mL)

Alpha Analytical Inc.
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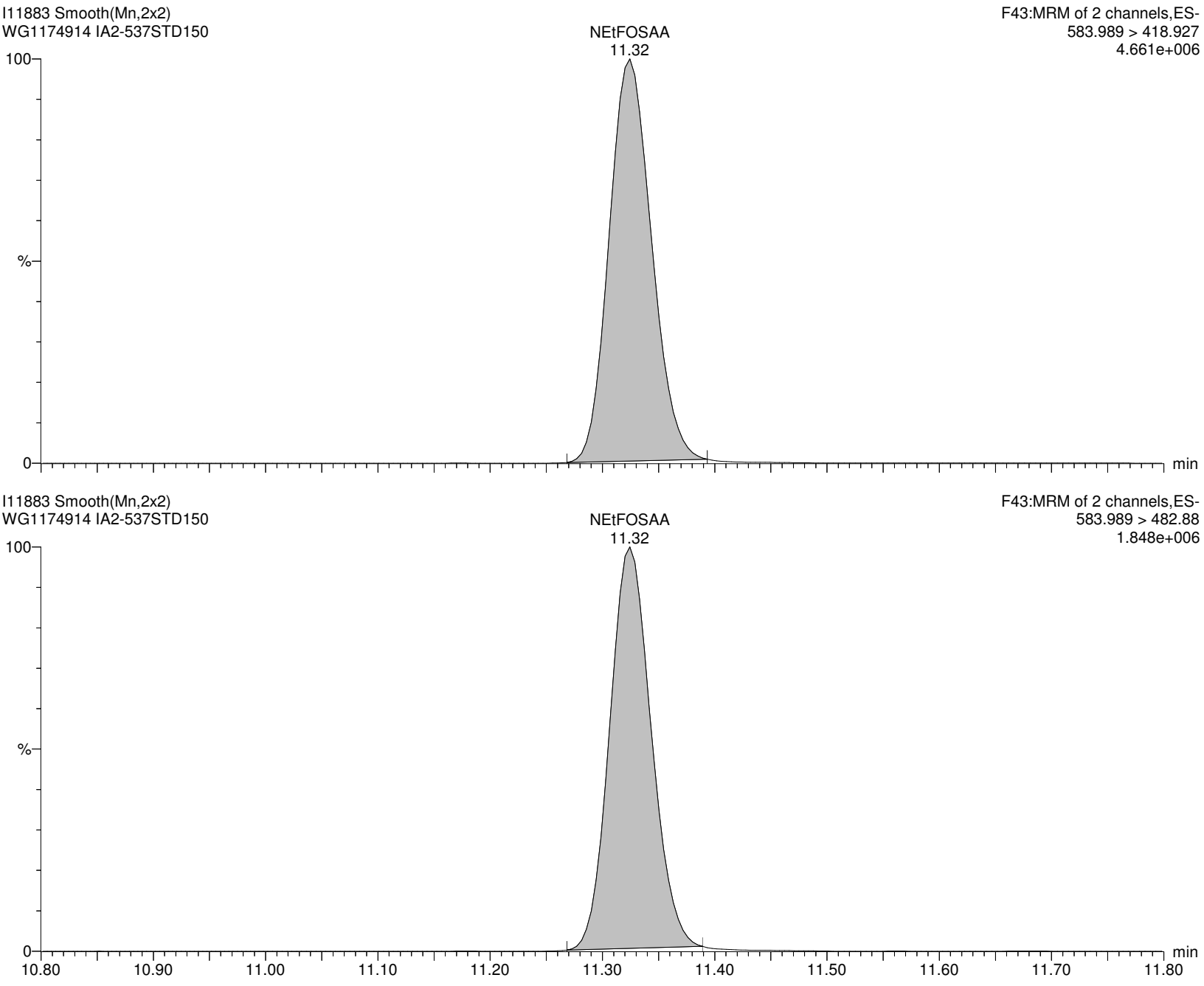

all concentration units in (ng/mL)

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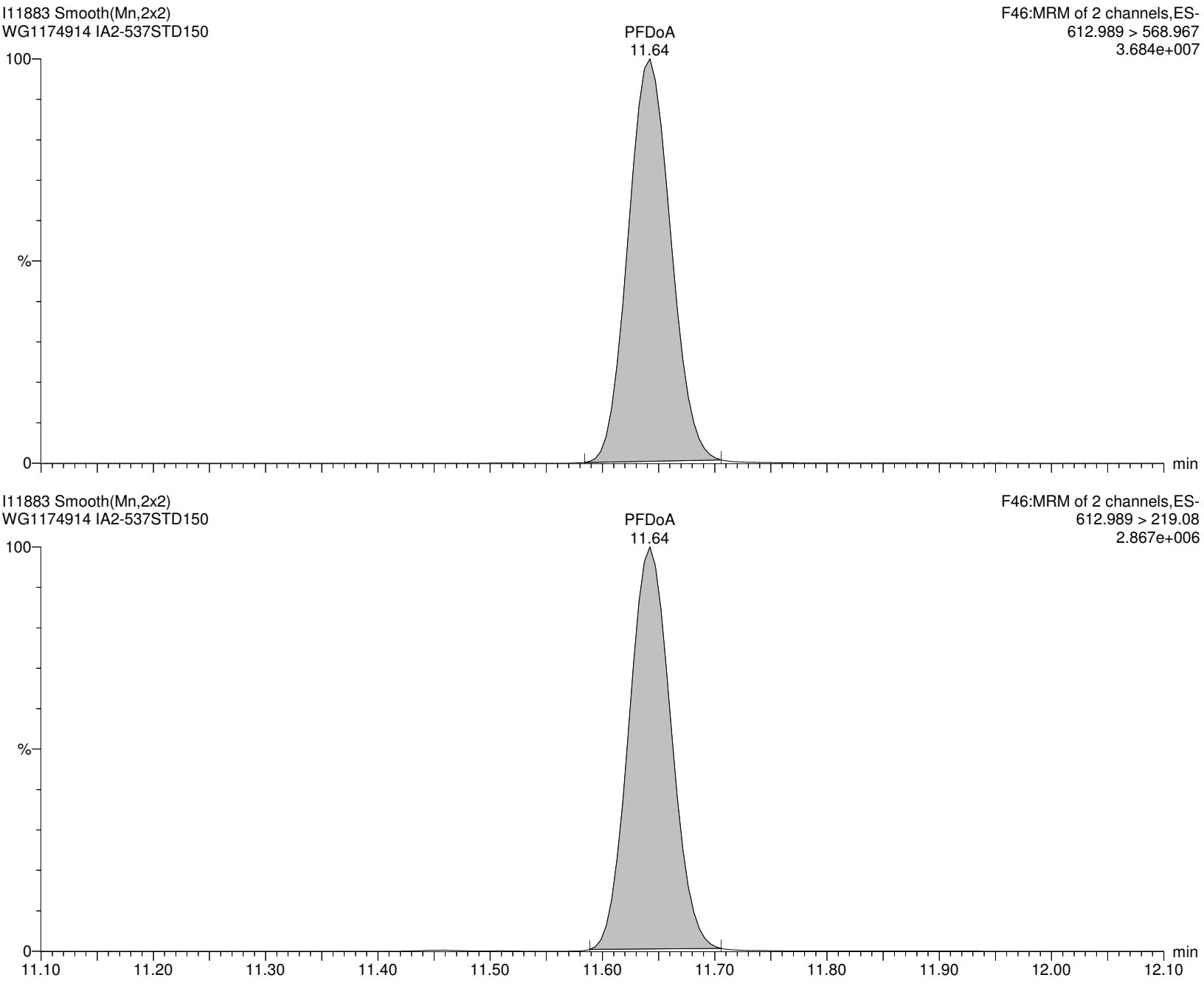

all concentration units in (ng/mL)

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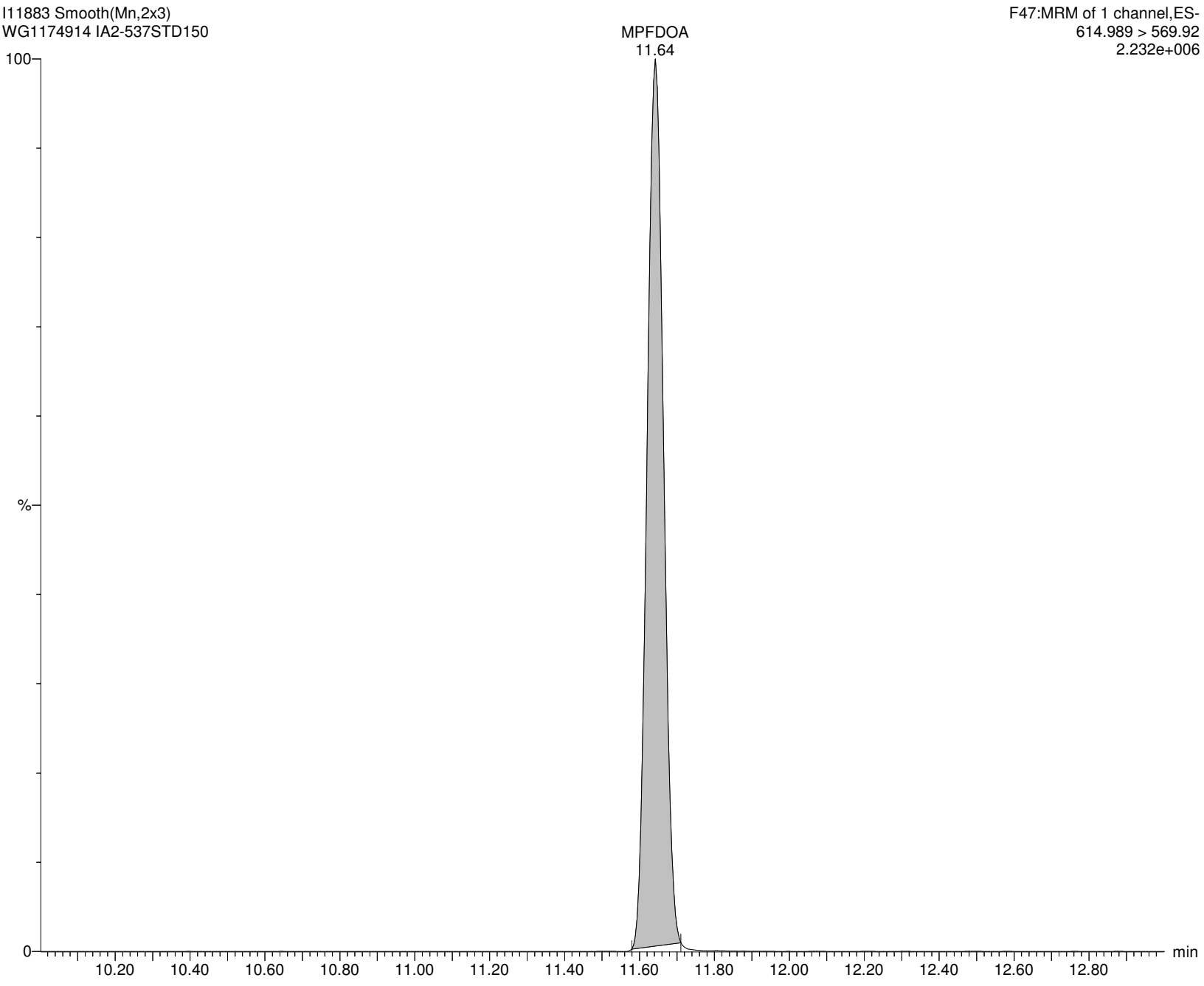

all concentration units in (ng/mL)

Alpha Analytical Inc.
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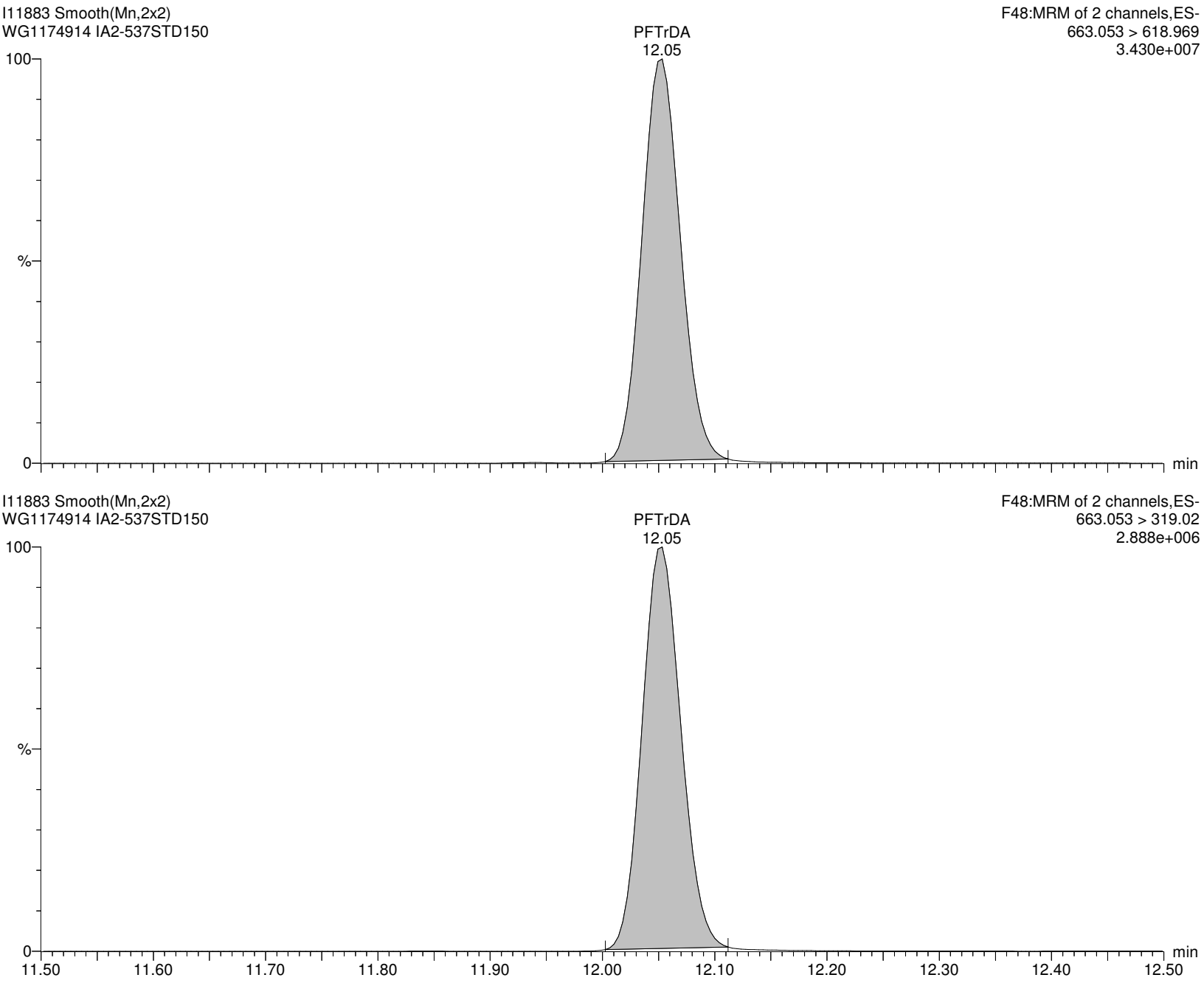

all concentration units in (ng/mL)

Alpha Analytical Inc.
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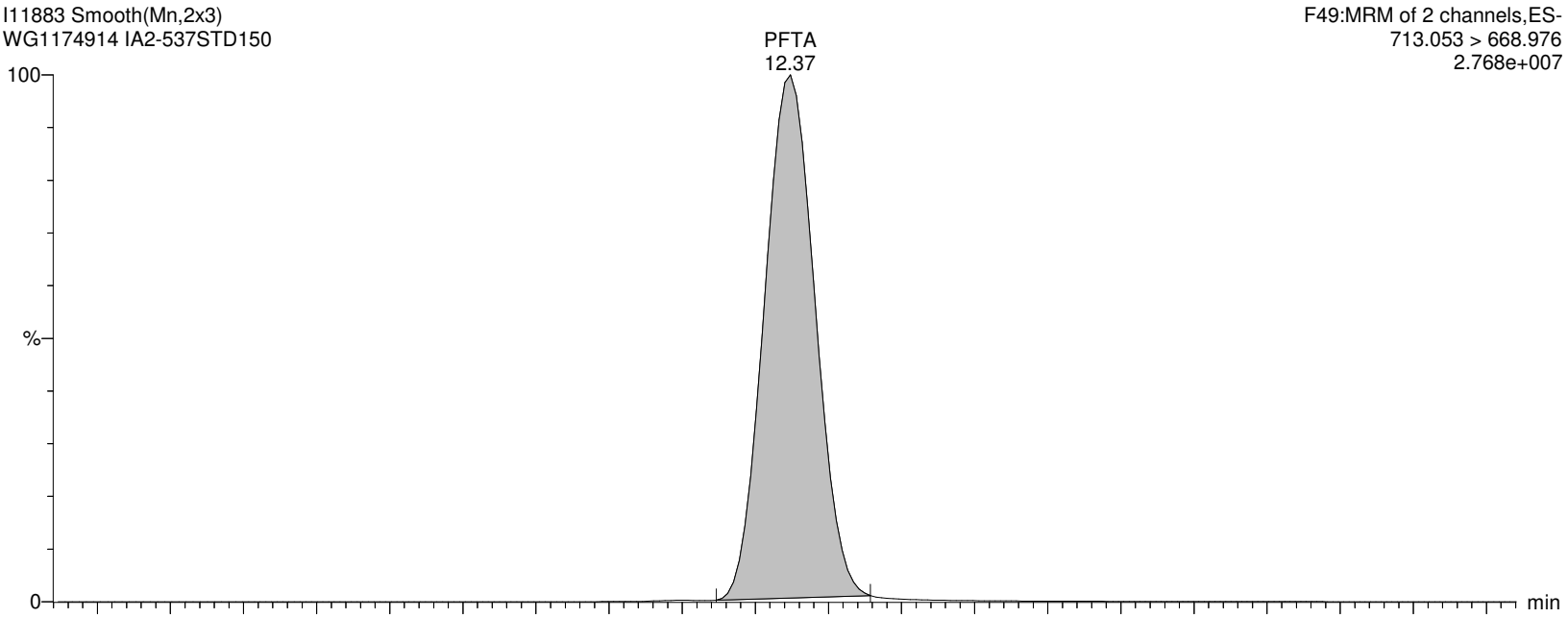

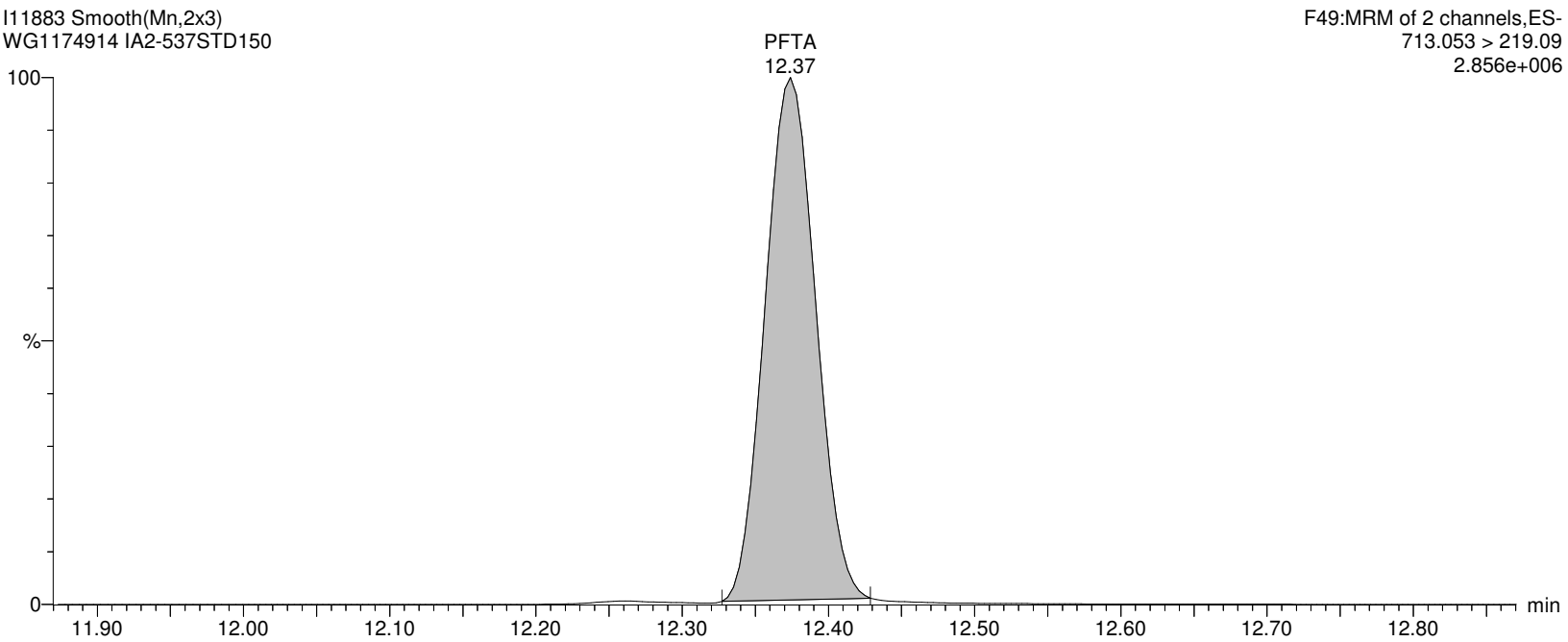

all concentration units in (ng/mL)

Alpha Analytical Inc.
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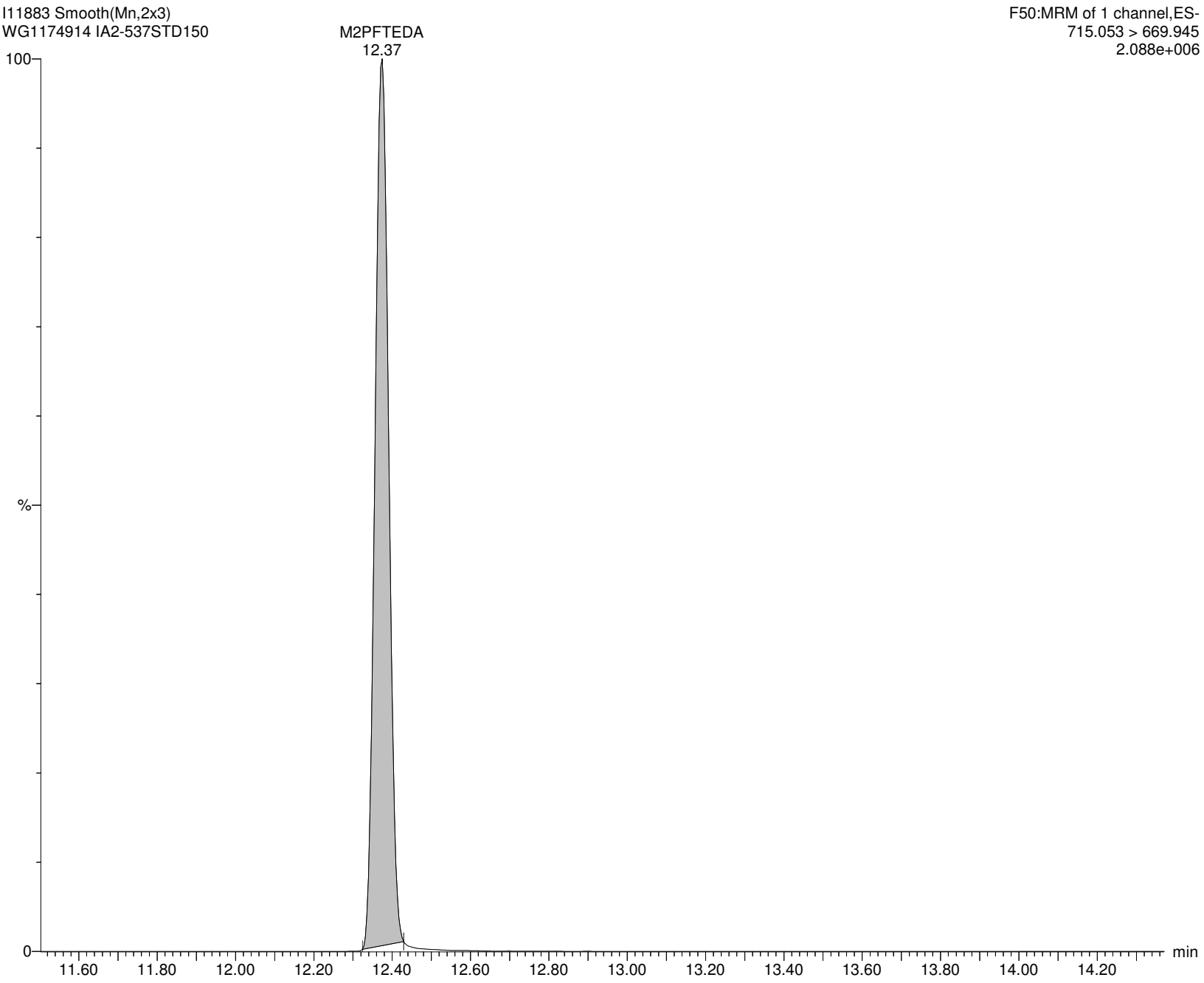

all concentration units in (ng/mL)

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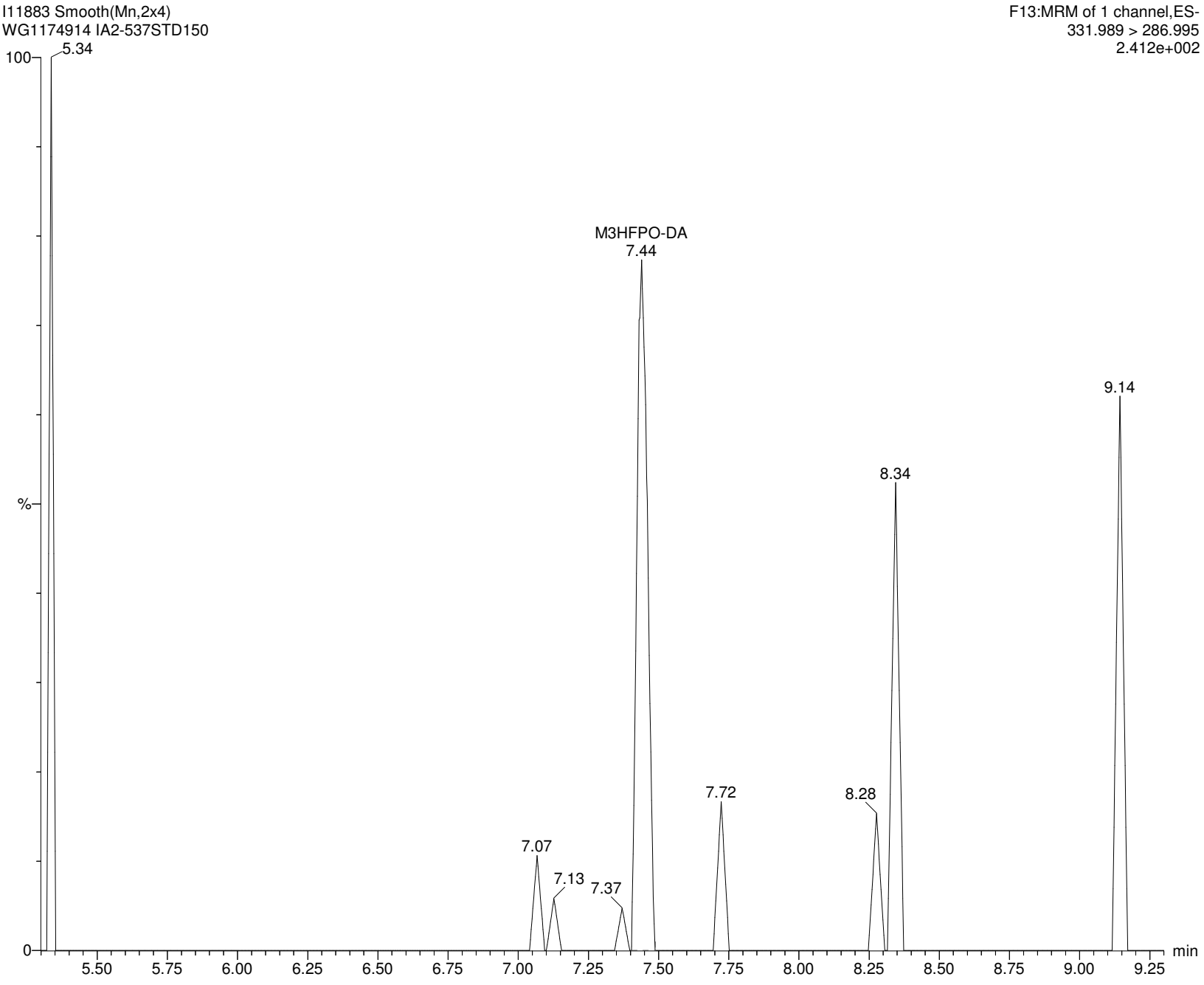

all concentration units in (ng/mL)

Alpha Analytical Inc.
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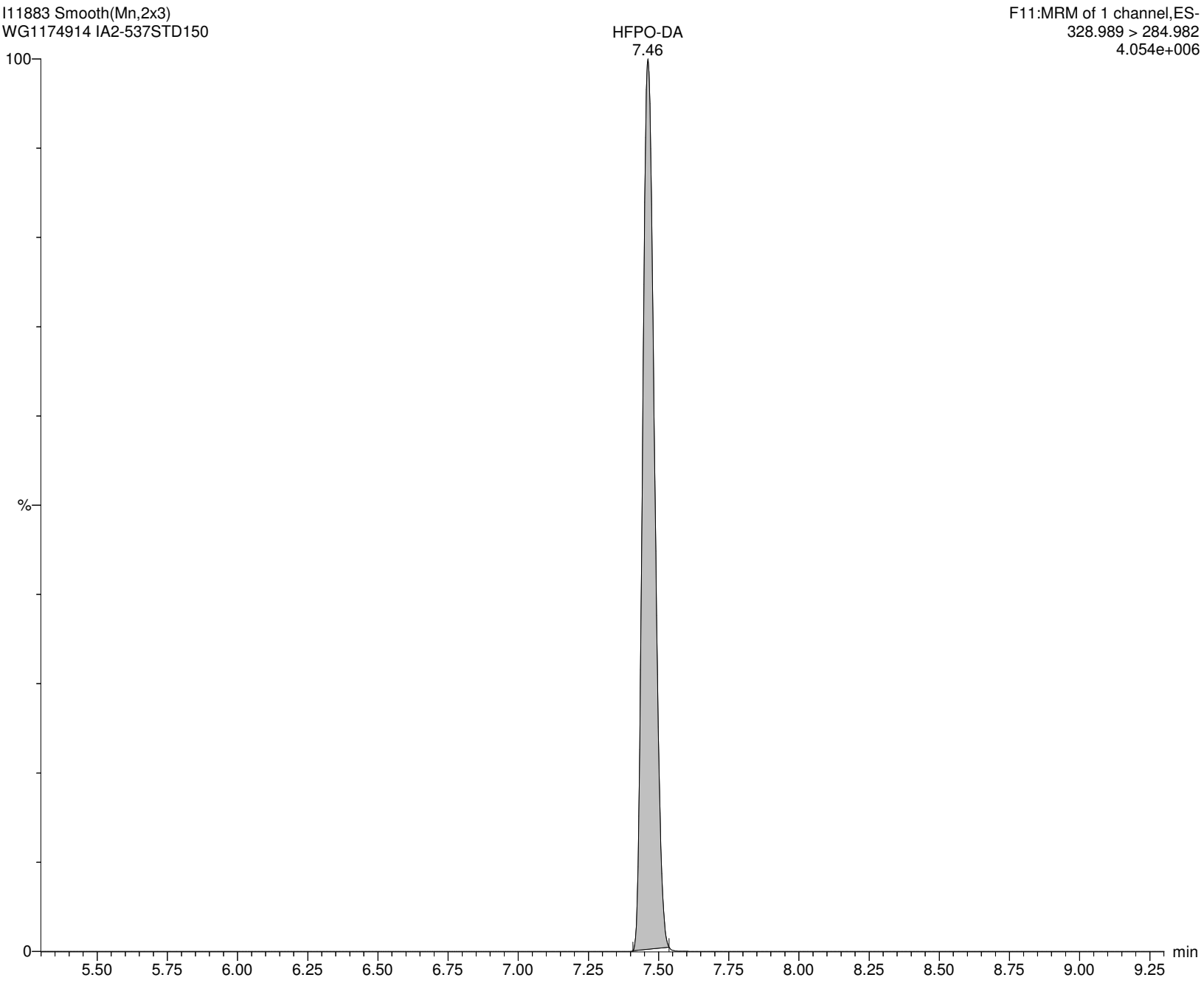

all concentration units in (ng/mL)

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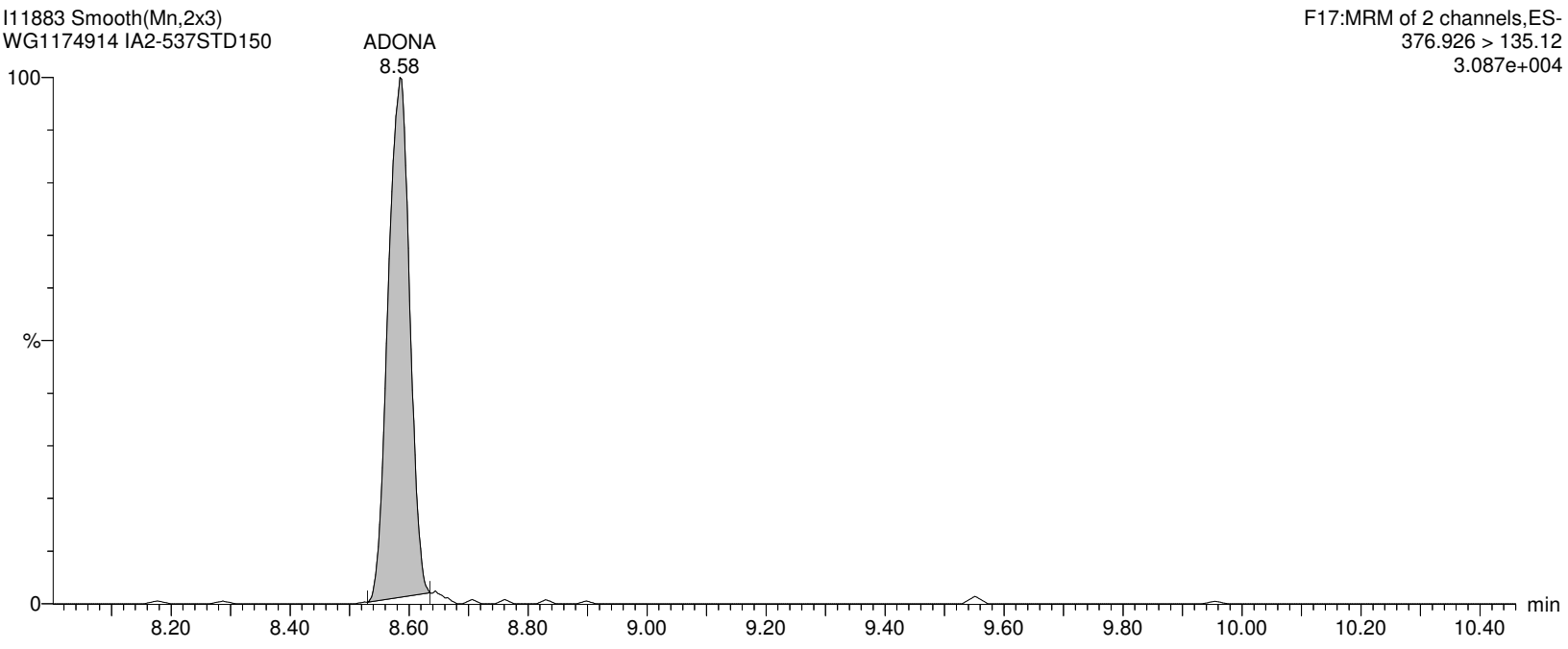

all concentration units in (ng/mL)

Alpha Analytical Inc.
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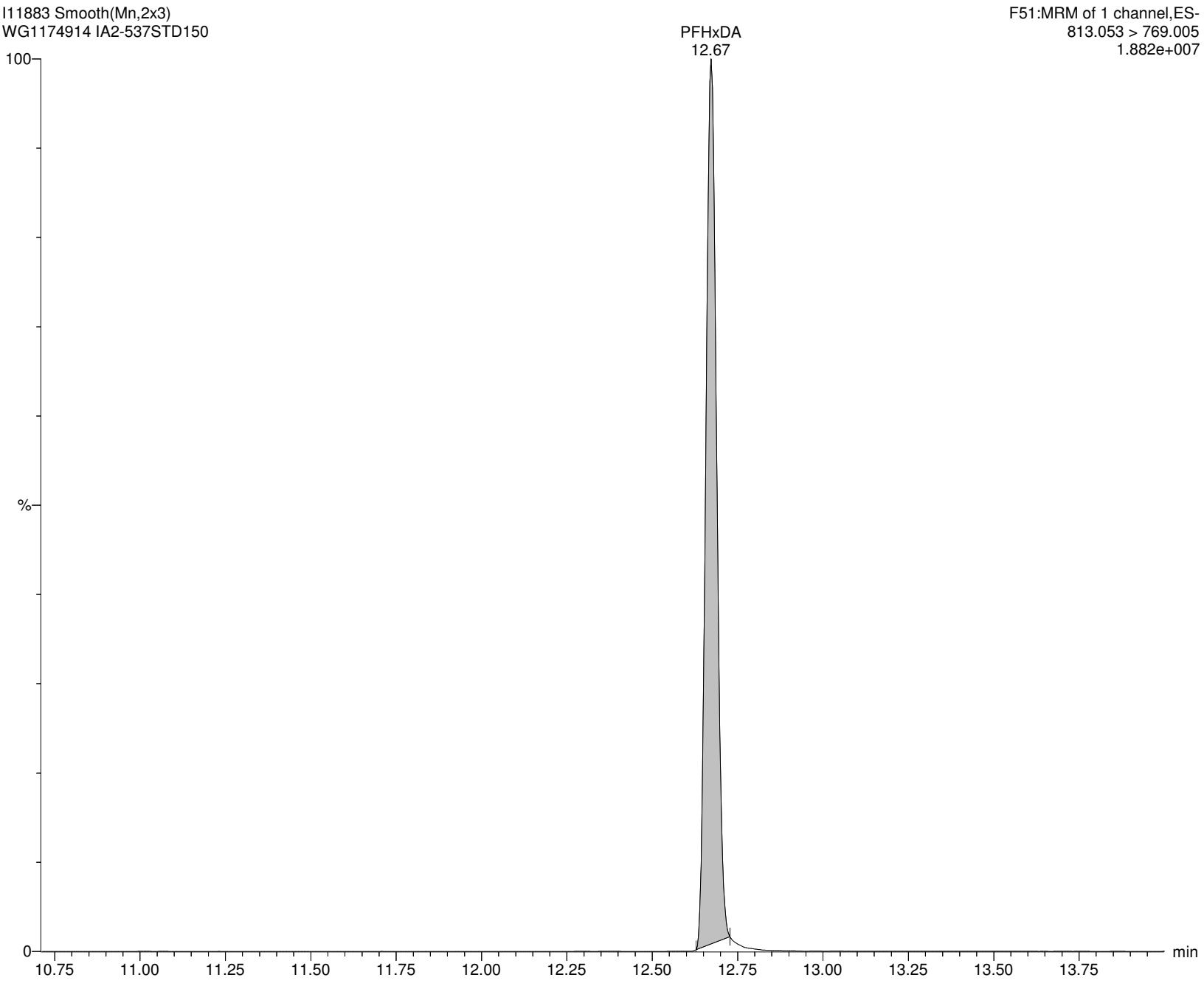

all concentration units in (ng/mL)

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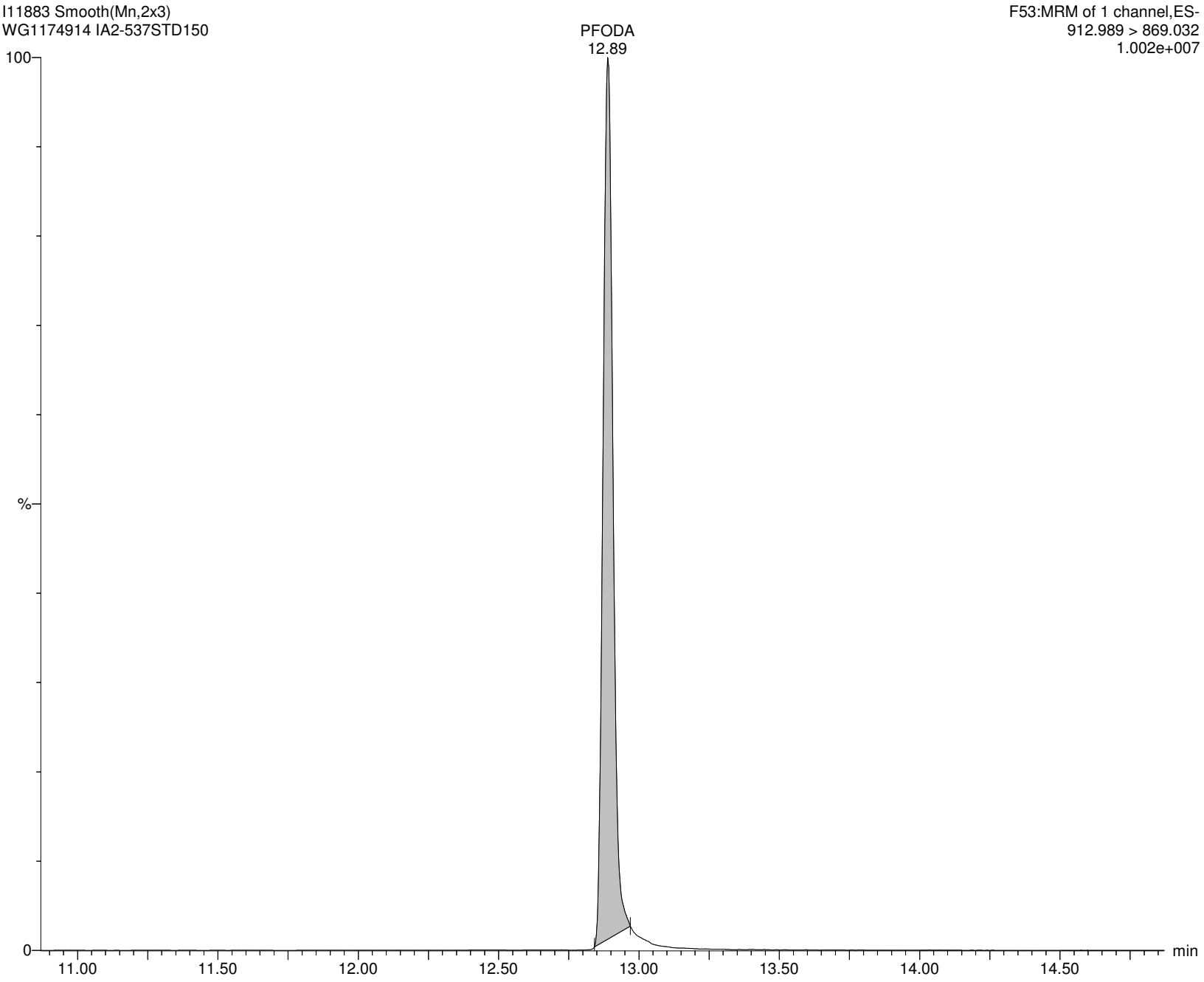

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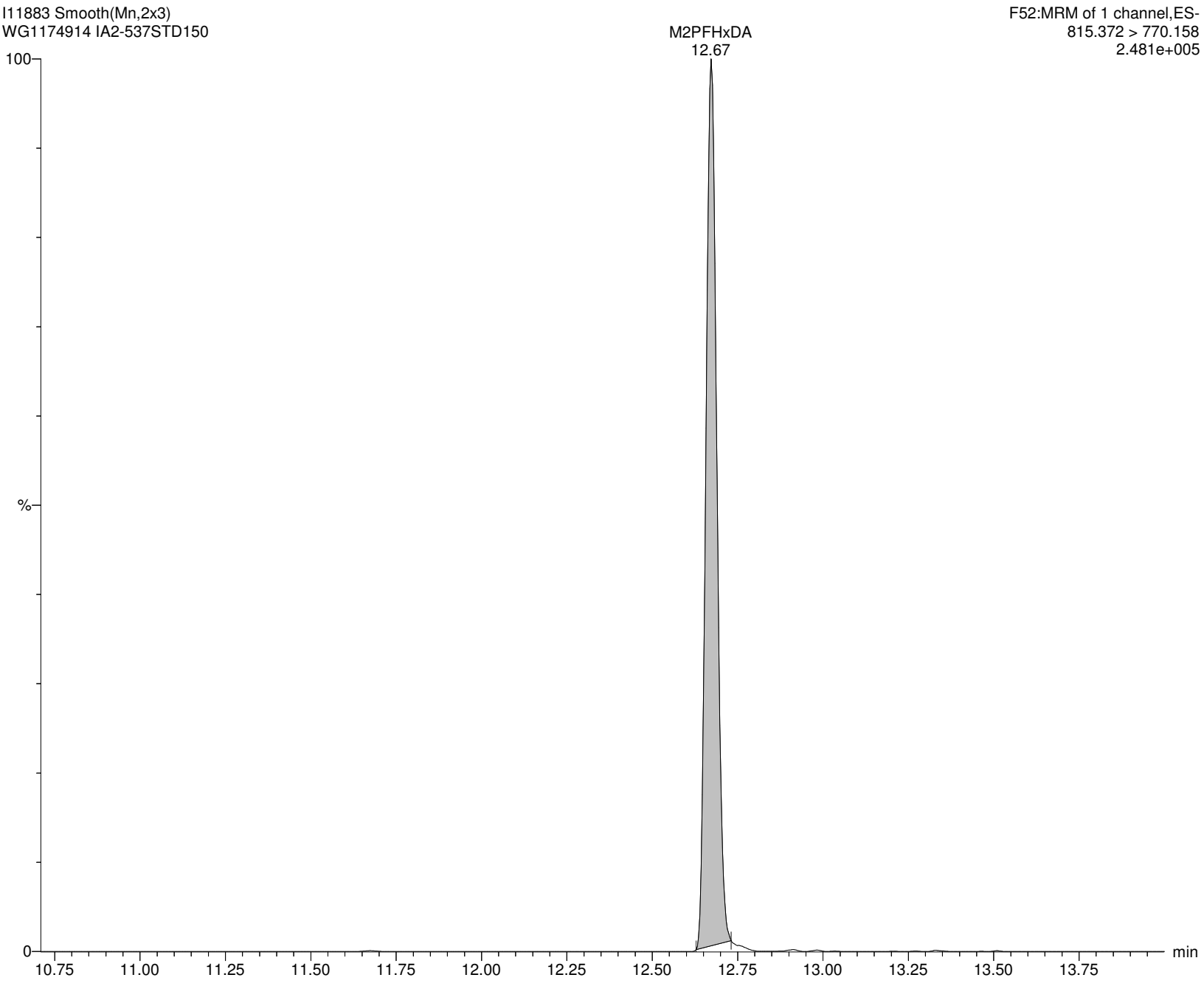

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	1795465		234.167		na	93.7
2	M3PFBA	INT STD	2.13	215.926 > 172.122	93058		10.053		na	100.5
3	MPFBA	INT STD	2.12	216.926 > 172.137	87715		9.923		na	99.2
4	PFPeA	2706-90-3	5.08	262.926 > 219.002	2383683		234.562		na	93.8
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	107826		9.452		na	94.5
6	PFBS	375-73-5	5.77	298.989 > 80.295	336793		205.442		na	92.9
7	M3PFBS	INT STD	5.76	301.989 > 80.254	18491		10.297		na	103.0
8	4:2FTS	757124-72-4	6.95	326.926 > 306.957	241619		ND	2.01	YES	
9	M2-4:2FTS	INT STD	6.94	329.117 > 309.079	22131		19.868		na	198.7
10	PFHxA	307-24-4	7.03	312.989 > 269.028	2818024		235.252	19.18	NO	94.1
11	M5PFHxA	INT STD	7.02	317.989 > 273.045	123433		9.903		na	99.0
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	363030		224.673	2.04	NO	95.6
13	PFHpA	375-85-9	8.32	362.926 > 319.014	3315793		234.574	5.20	NO	93.8
14	M4PFHpA	INT STD	8.32	366.926 > 321.979	143584		9.796		na	98.0
15	br-PFHxS	355-46-4	8.25	398.926 > 80.295	69650		45.829	1.93	NO	107.8
16	L-PFHxS	355-46-4	8.48	398.926 > 80.295	230959		175.382	1.33	NO	94.8
17	PFHxS	355-46-4		398.926 > 80.295	300609		221.210		na	
18	M3PFHxS	INT STD	8.48	401.926 > 80.317	9339		9.363		na	93.6
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	3188840		240.393	9.04	NO	96.2
21	M2PFOA	INT STD	9.27	415.032 > 369.968	173018		9.163		na	91.6
22	PFOA	335-67-1		412.989 > 368.9	3188840		240.393		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	135965		9.745		na	97.4
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	184969		ND	1.02	NO	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	17463		18.886		na	188.9
26	PFHpS	375-92-8	9.36	448.926 > 80.257	189922		229.108	0.95	YES	96.5
27	PFNA	375-95-1	10.02	462.989 > 418.931	2641555		234.347	4.16	NO	93.7
28	M9PFNA	INT STD	10.02	472.053 > 426.947	134960		9.698		na	97.0
29	br-PFOS	1763-23-1	9.88	498.989 > 80.294	100473		51.201	3.98	YES	102.4
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	244220		174.640	1.72	YES	95.7
31	PFOS	1763-23-1		498.989 > 80.294	344693		225.841		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	14406		8.893		na	88.9
33	M8PFOS	INT STD	10.07	507.053 > 80.294	13389		9.966		na	99.7
34	PFDA	335-76-2	10.63	513.053 > 468.906	2244685		230.074	5.91	NO	92.0
35	M2PFDA	INT STD	10.63	515.053 > 469.934	124041		8.344		na	83.4
36	M6PFDA	INT STD	10.63	519.053 > 473.931	109986		9.820		na	98.2
37	8:2FTS	39108-34-4	10.62	526.989 > 506.946	110754		ND		na	
38	M2-8:2FTS	INT STD	10.62	529.053 > 508.945	9017		16.607		na	166.1
39	PFNS	68259-12-1	10.66	548.989 > 80.249	231667		224.556	1.30	NO	93.6

all concentration units in (ng/mL)

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ID: IA2-537STD250
Name: I11884
Date: 01-Nov-2018
Time: 18:41:43
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.02	573.096 > 418.987	14328		11.867		na	118.7
41	NMeFOSAA	2355-31-9	11.02	570.053 > 418.917	344836		239.265		na	95.7
42	PFUnA	2058-94-8	11.17	562.989 > 518.903	2056357		233.515	7.53	NO	93.4
43	M7-PFUDA	INT STD	11.17	570.053 > 524.923	88632		9.455		na	94.5
44	PFDS	335-77-3	11.18	598.926 > 80.314	173827		222.722	1.11	NO	92.3
45	FOSA	754-91-6	11.12	497.989 > 78.245	1012420		238.801		na	95.5
46	M8FOSA	INT STD	11.12	506.053 > 78.286	43343		10.847		na	108.5
47	d5-NEtFOSAA	INT STD	11.31	589.117 > 418.929	14106		12.112		na	121.1
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	325759		225.867	2.53	YES	90.3
49	PFDoA	307-55-1	11.64	612.989 > 568.967	2476876		230.584	13.16	NO	92.2
50	MPFDOA	INT STD	11.64	614.989 > 569.92	115194		10.937		na	109.4
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	2090999		231.484	11.87	NO	92.6
52	PFTA	376-06-7	12.37	713.053 > 668.976	1629228		239.389	9.27	NO	95.8
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	81056		10.390		na	103.9
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.50	376.926 > 251.005	4296850		238.851	1922.59	NO	101.0
57	PFHxDA		12.68	813.053 > 769.005	1169410		257.072		na	102.8
58	PFODA		12.90	912.989 > 869.032	667369		250.187		na	100.1
59	M2PFHxDA		12.68	815.372 > 770.158	8224		10.134		na	101.3

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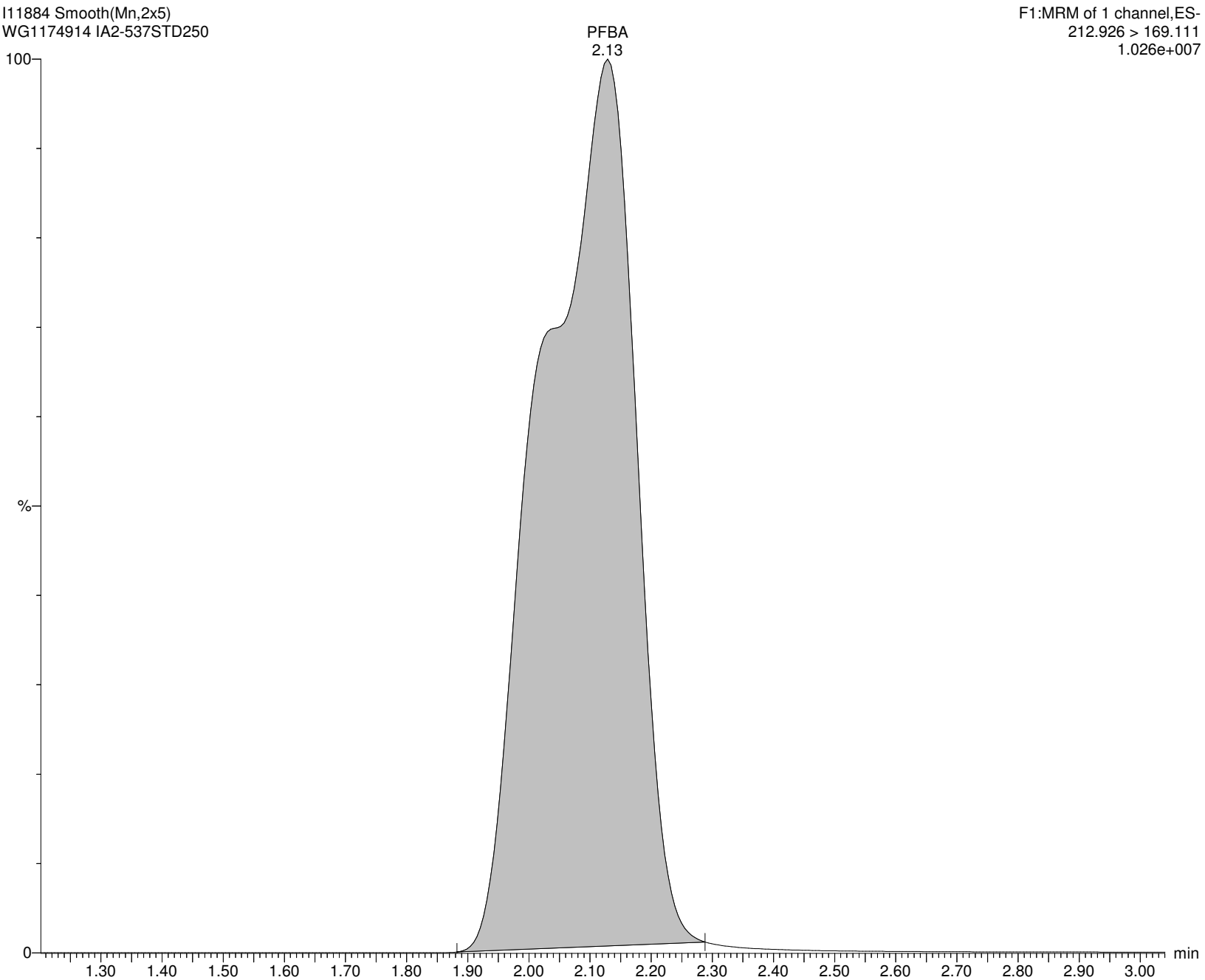

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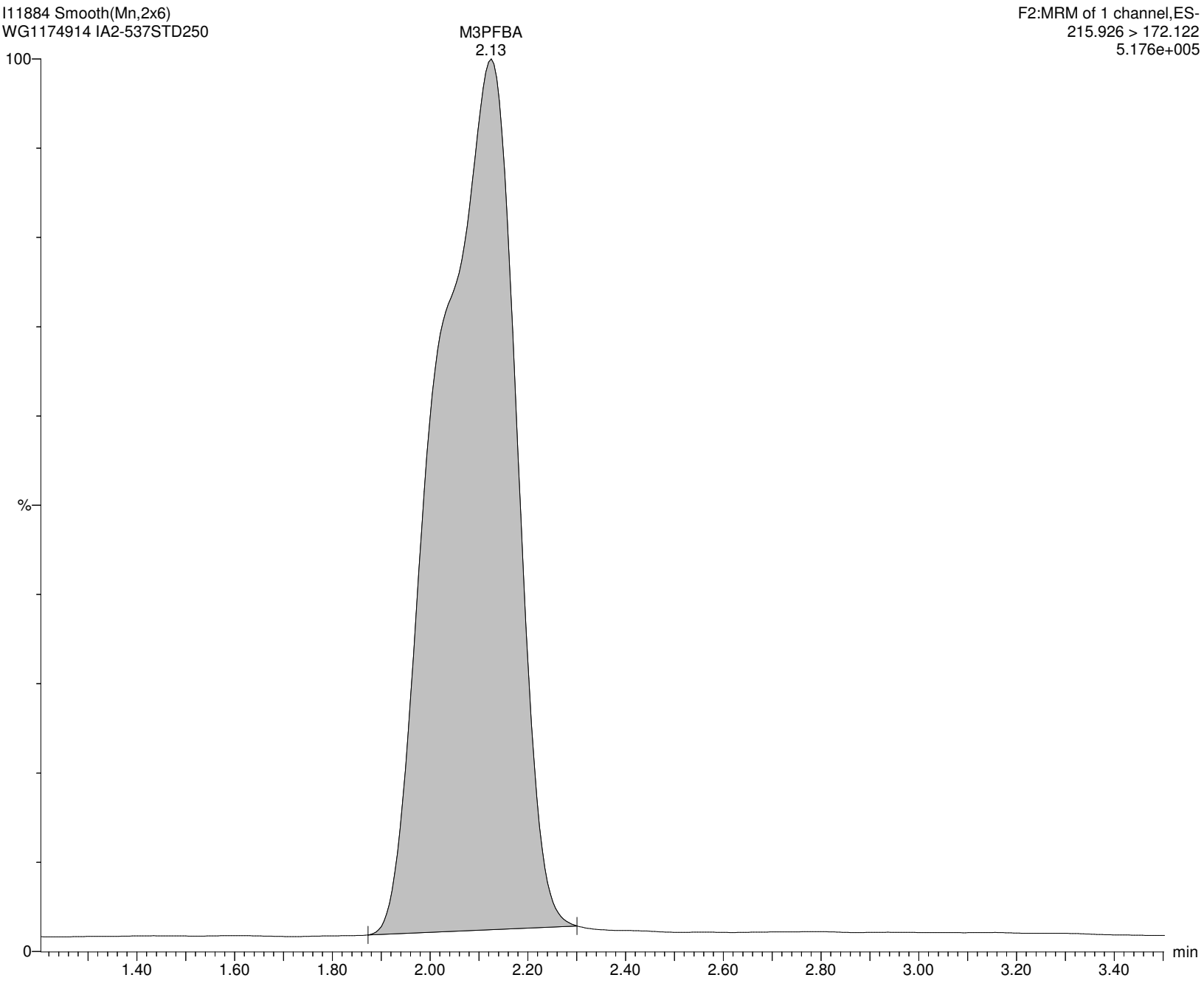

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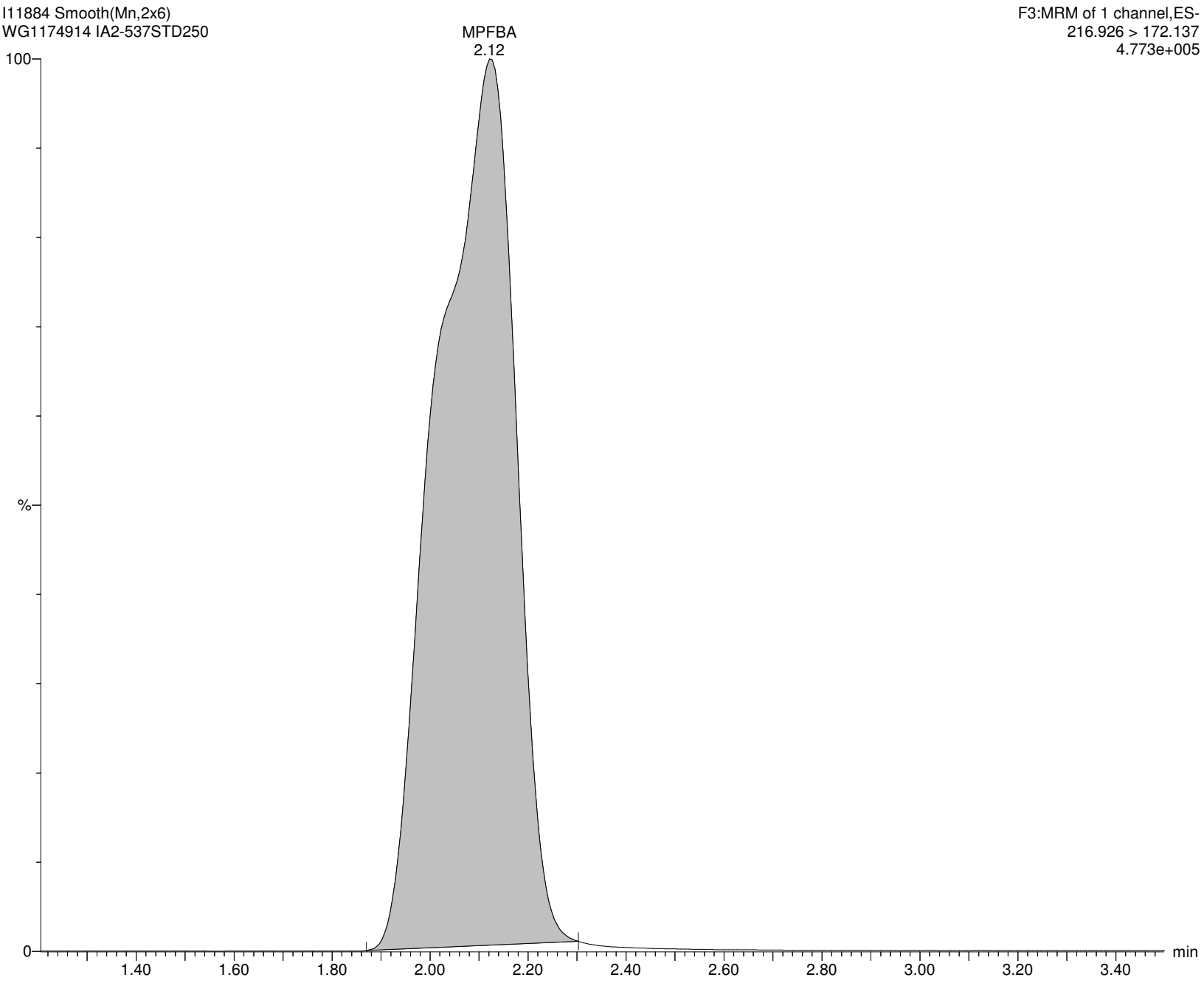

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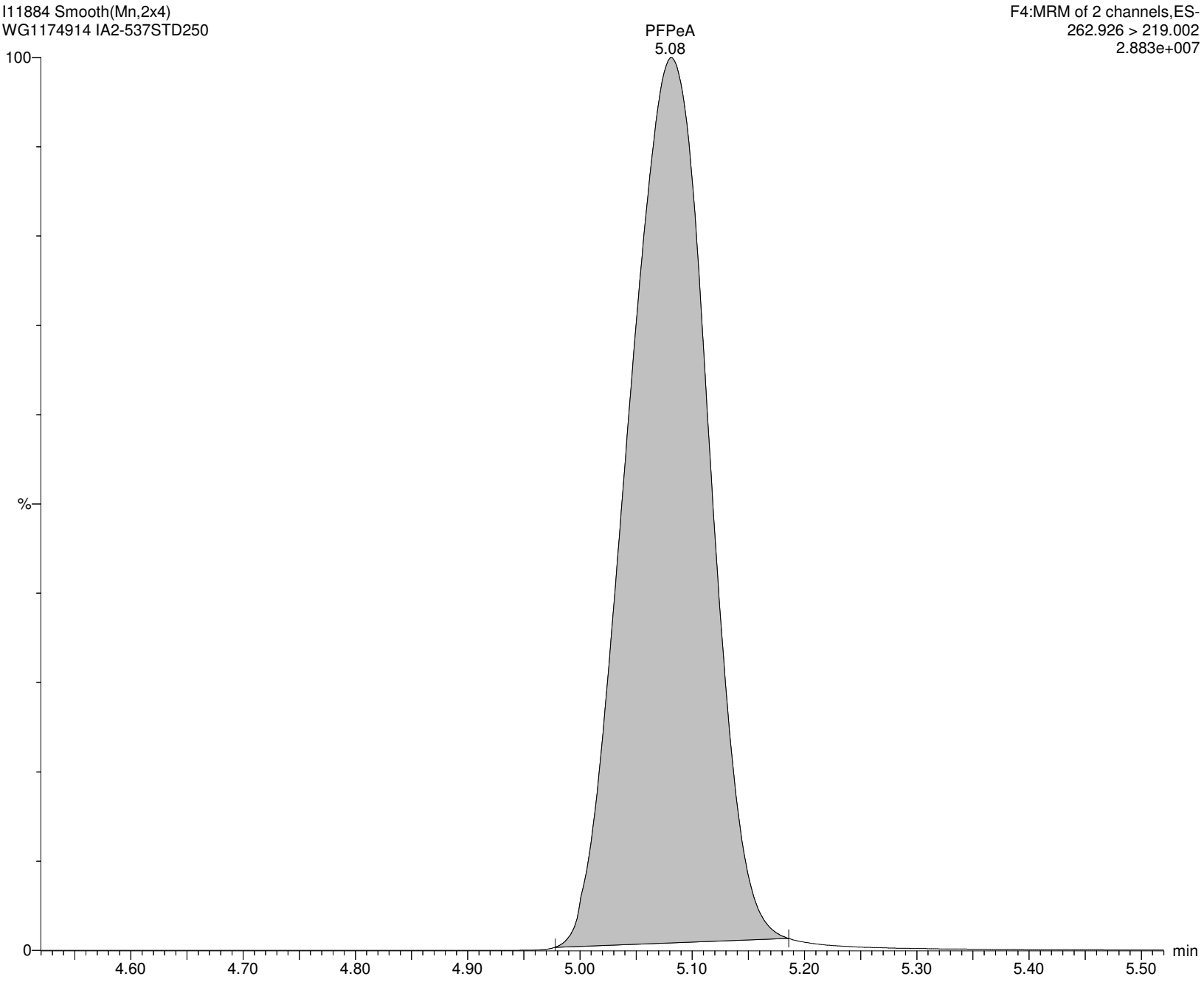

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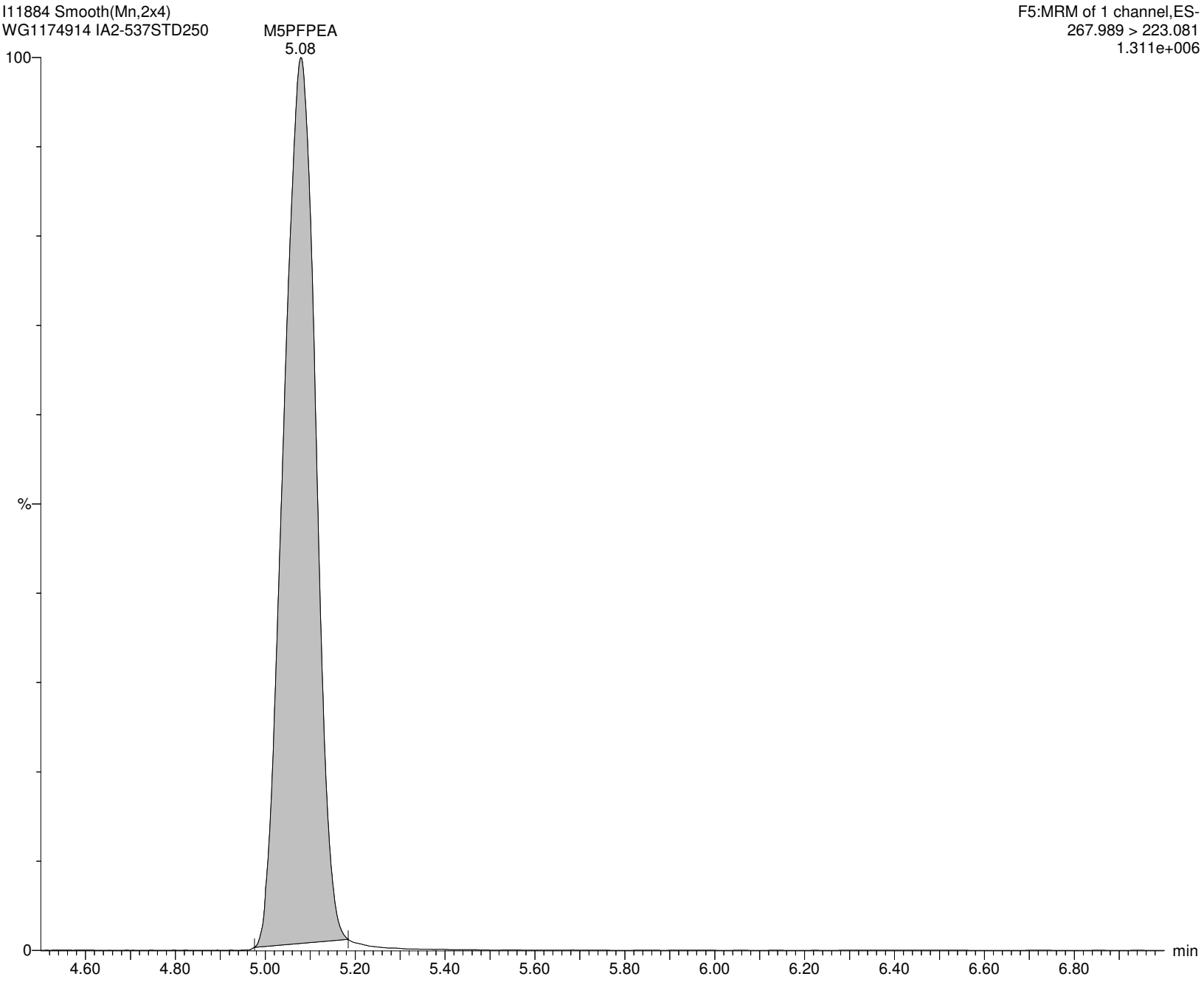

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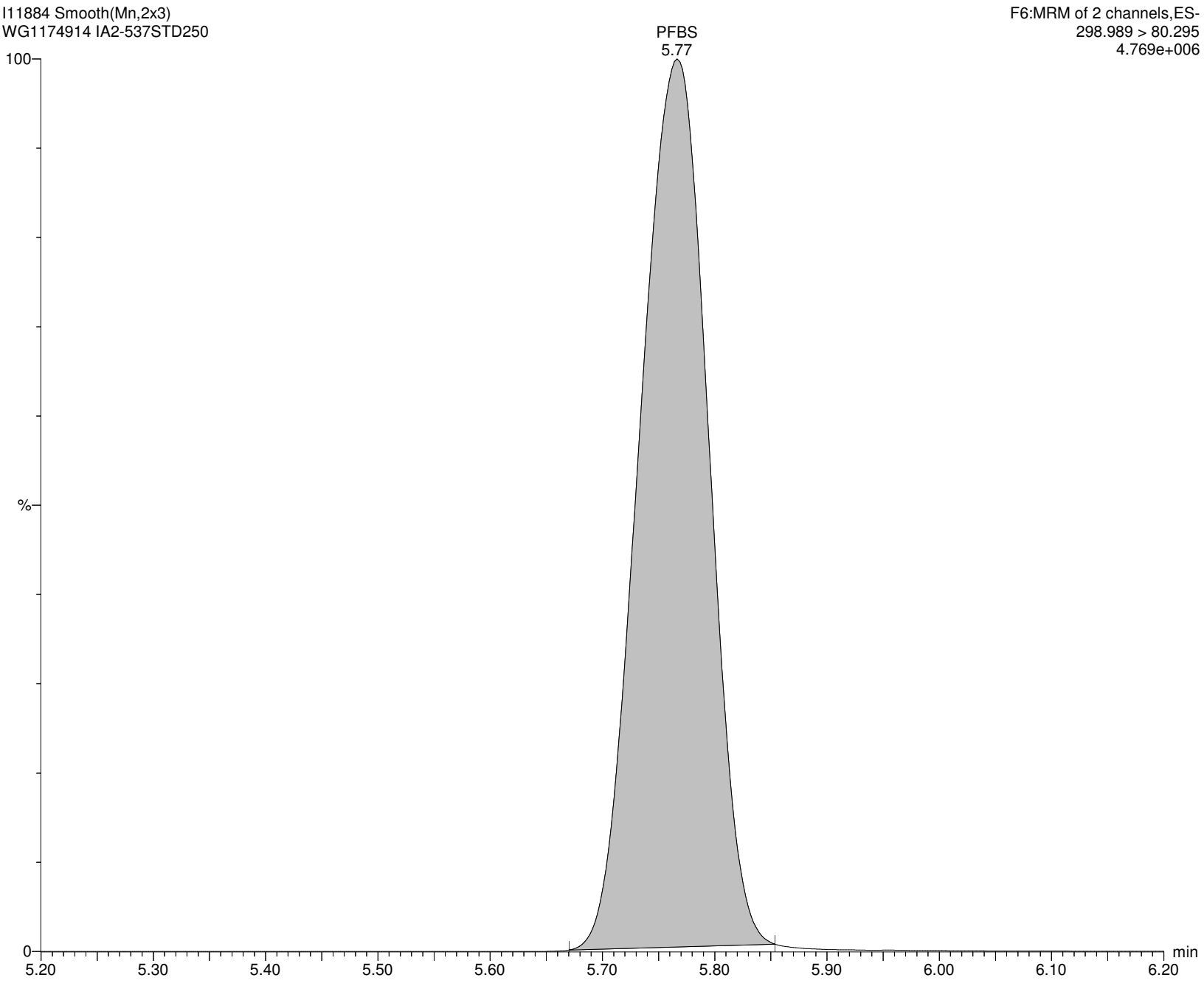

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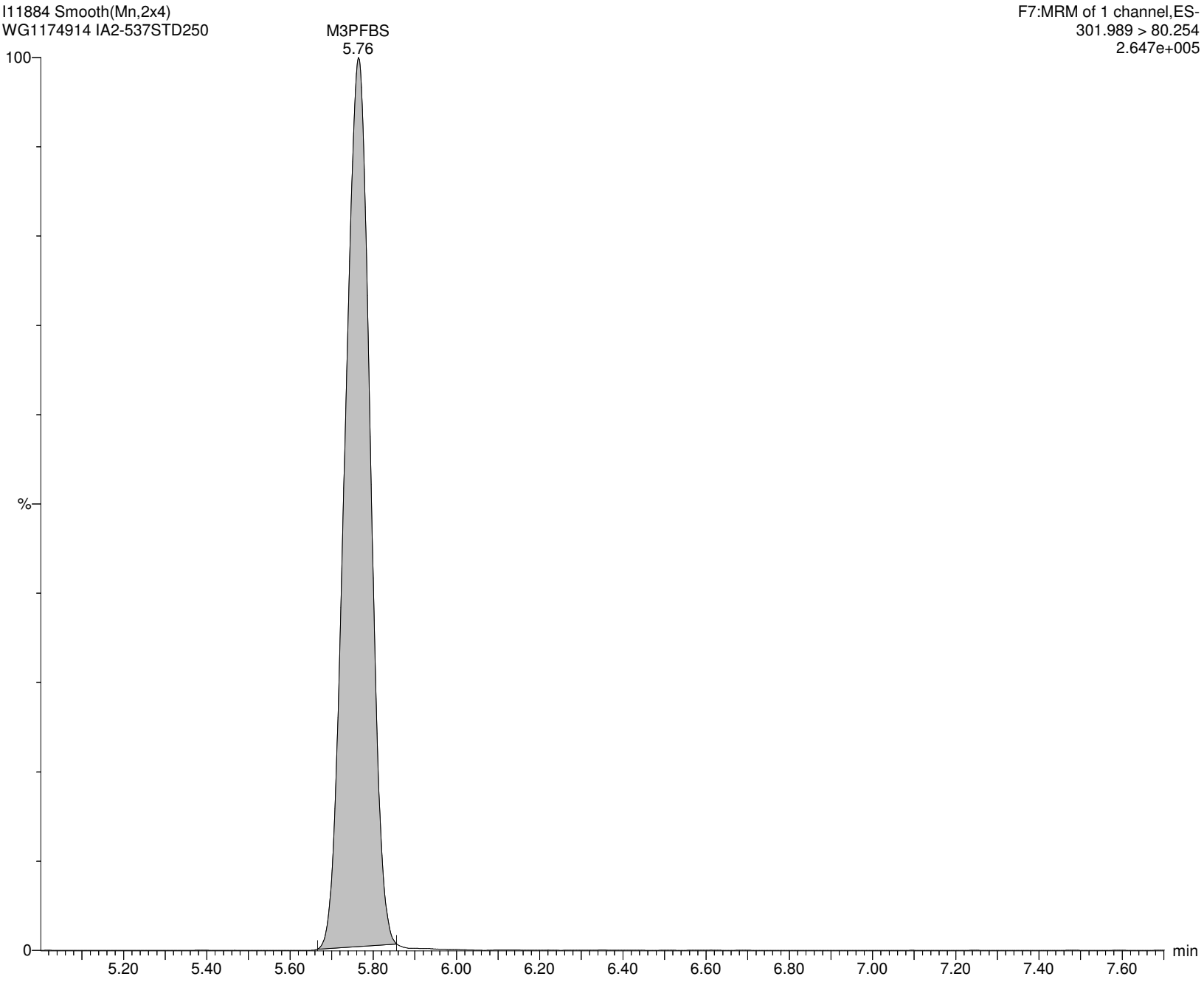
M3PFBS



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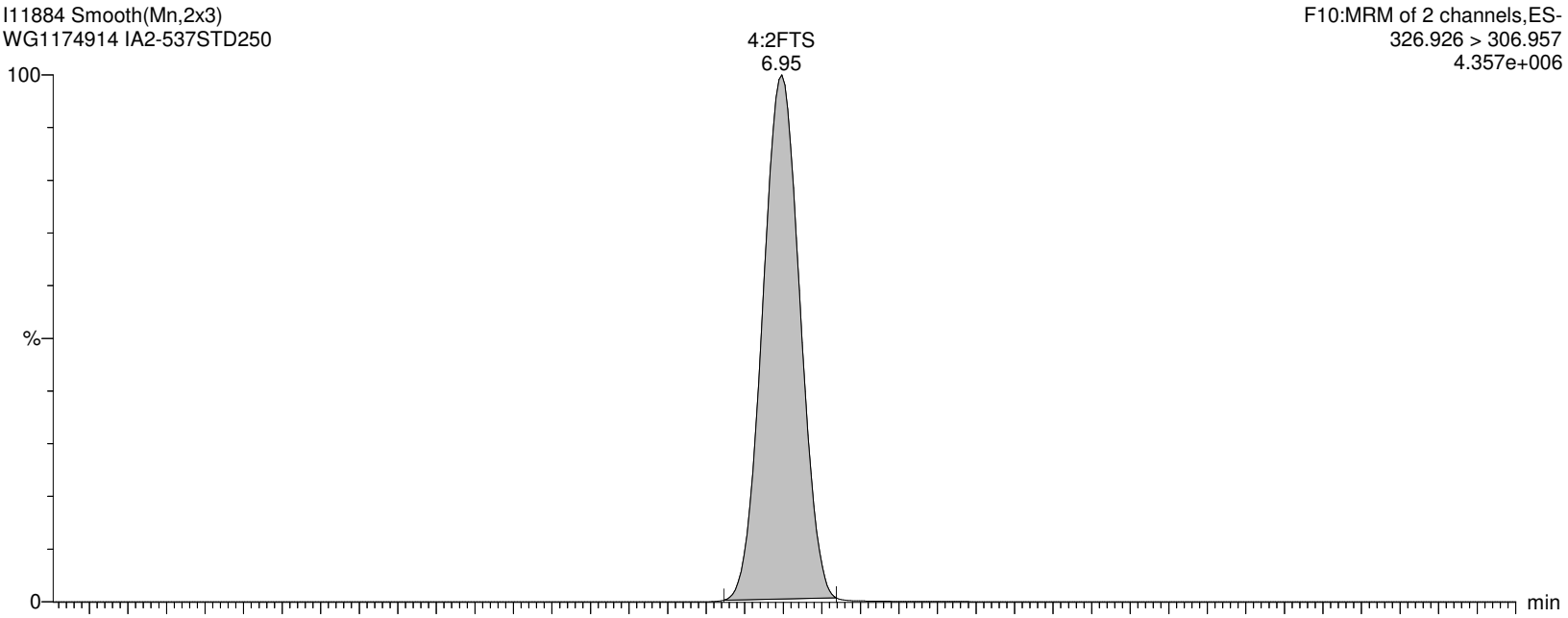
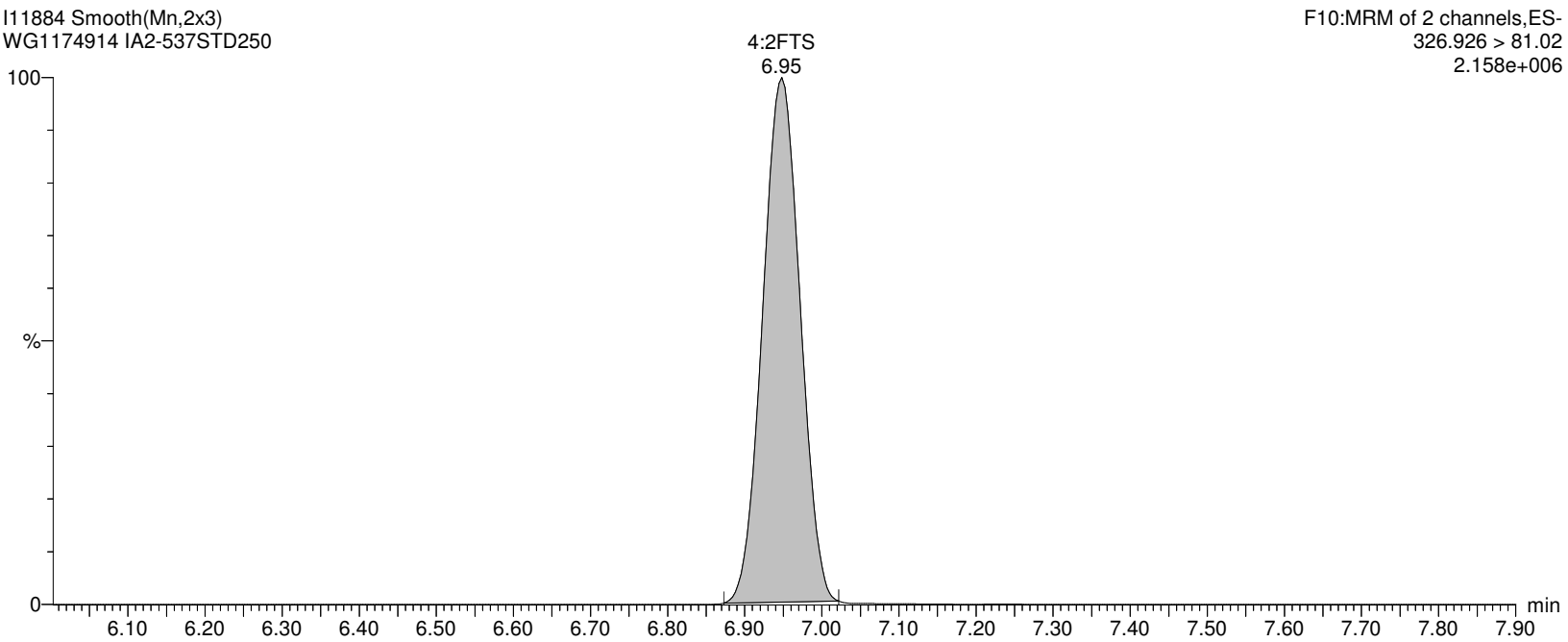
4:2FTS





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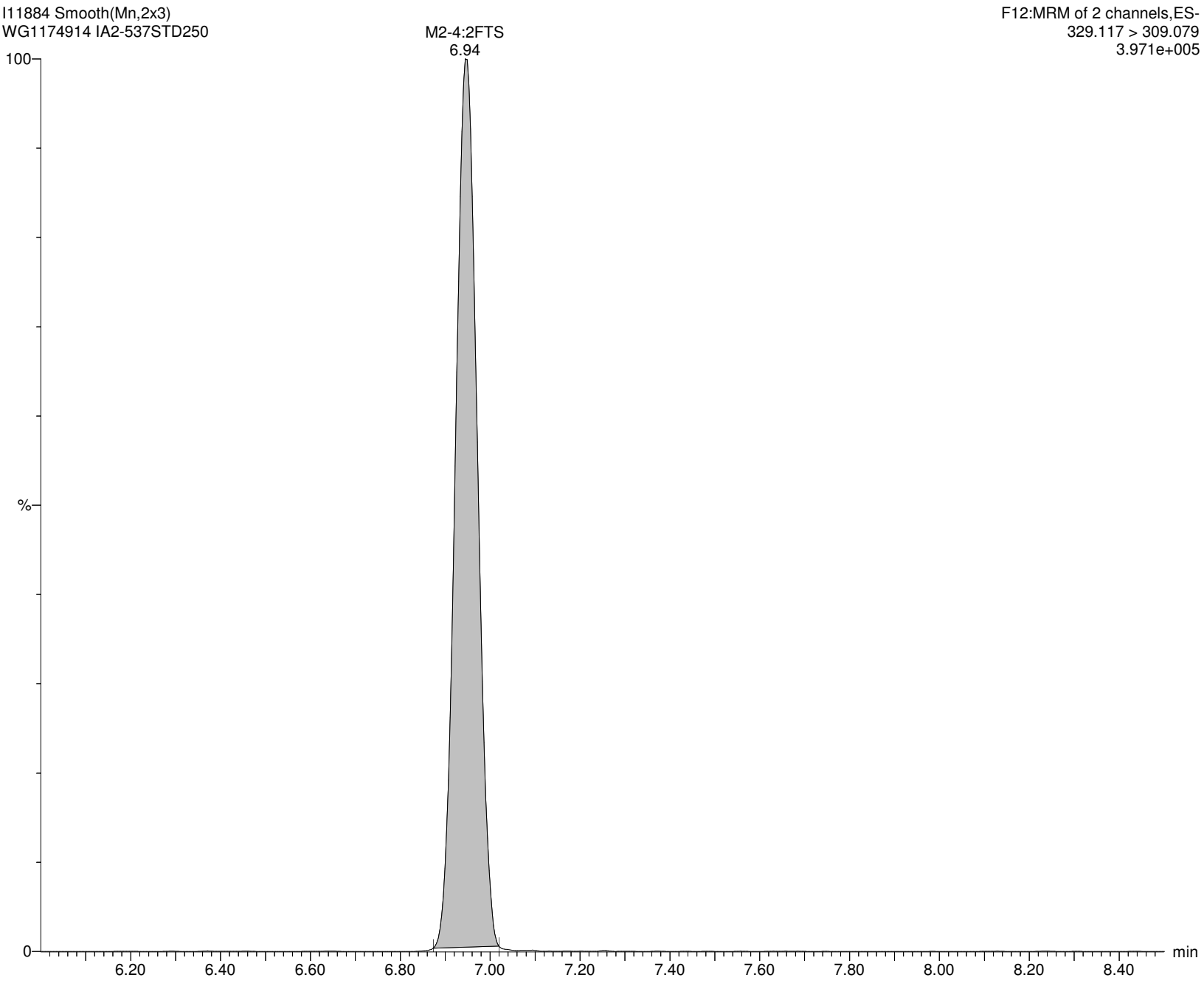
M2-4:2FTS



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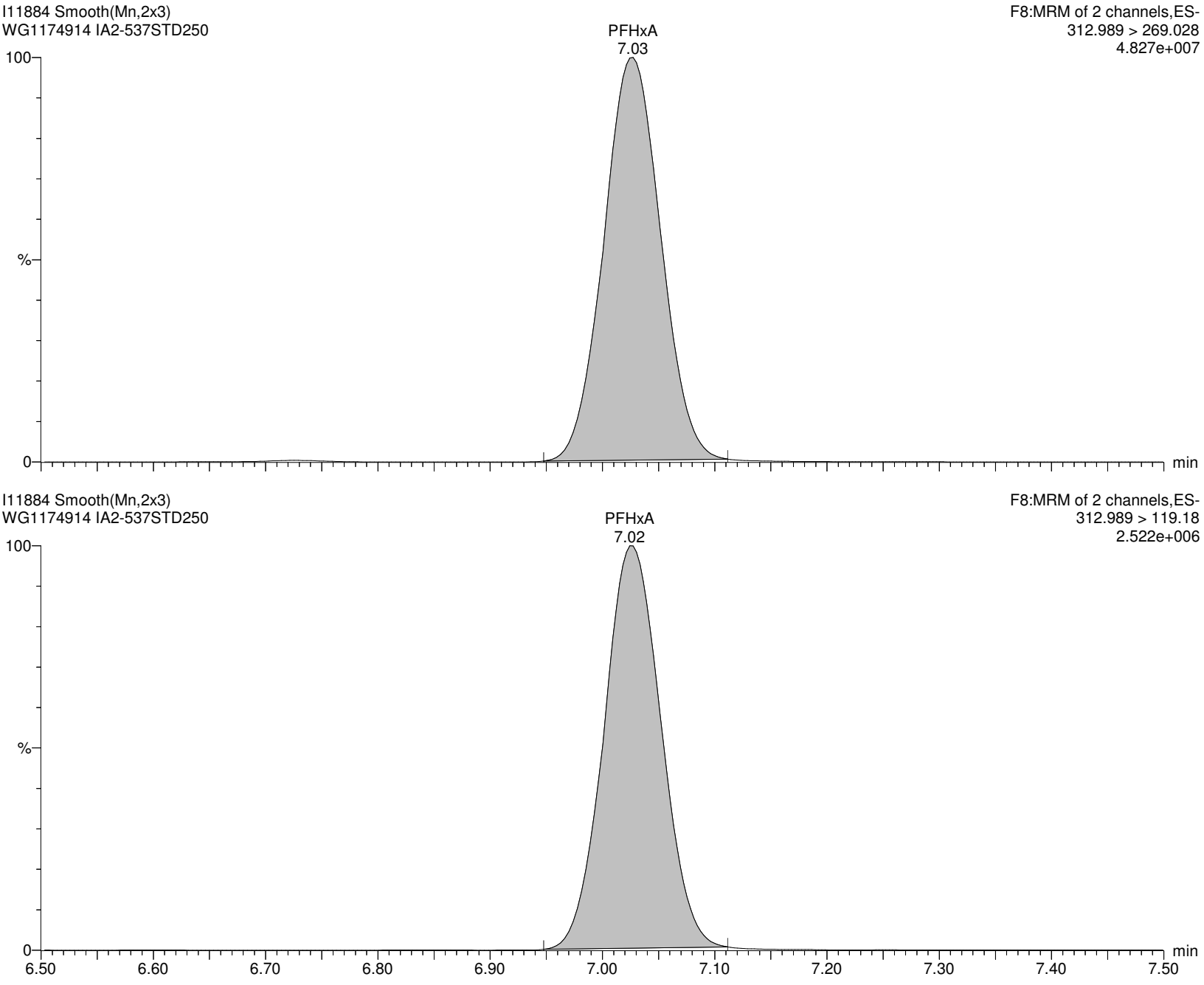
PFHxA



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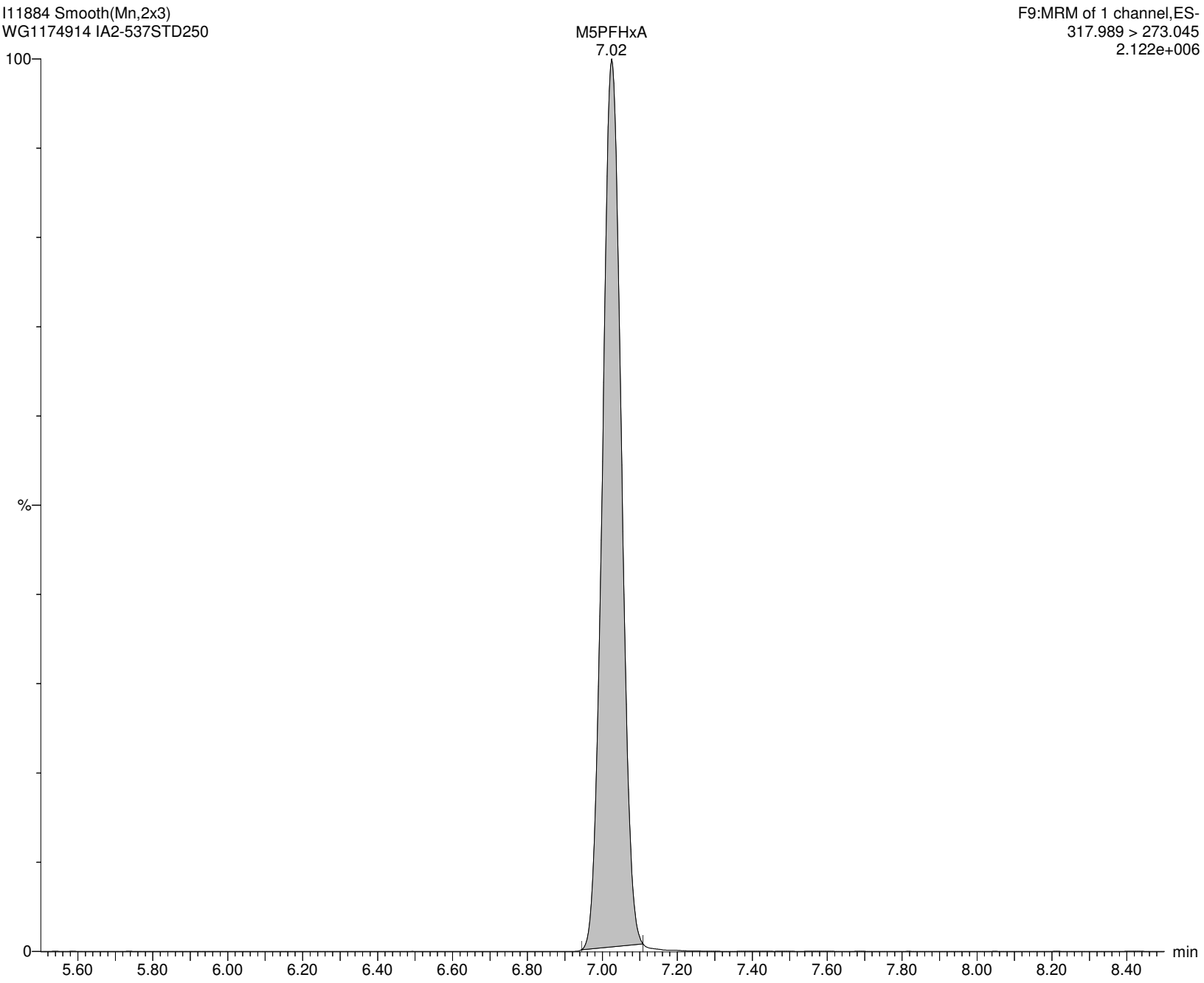
M5PFHxA



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Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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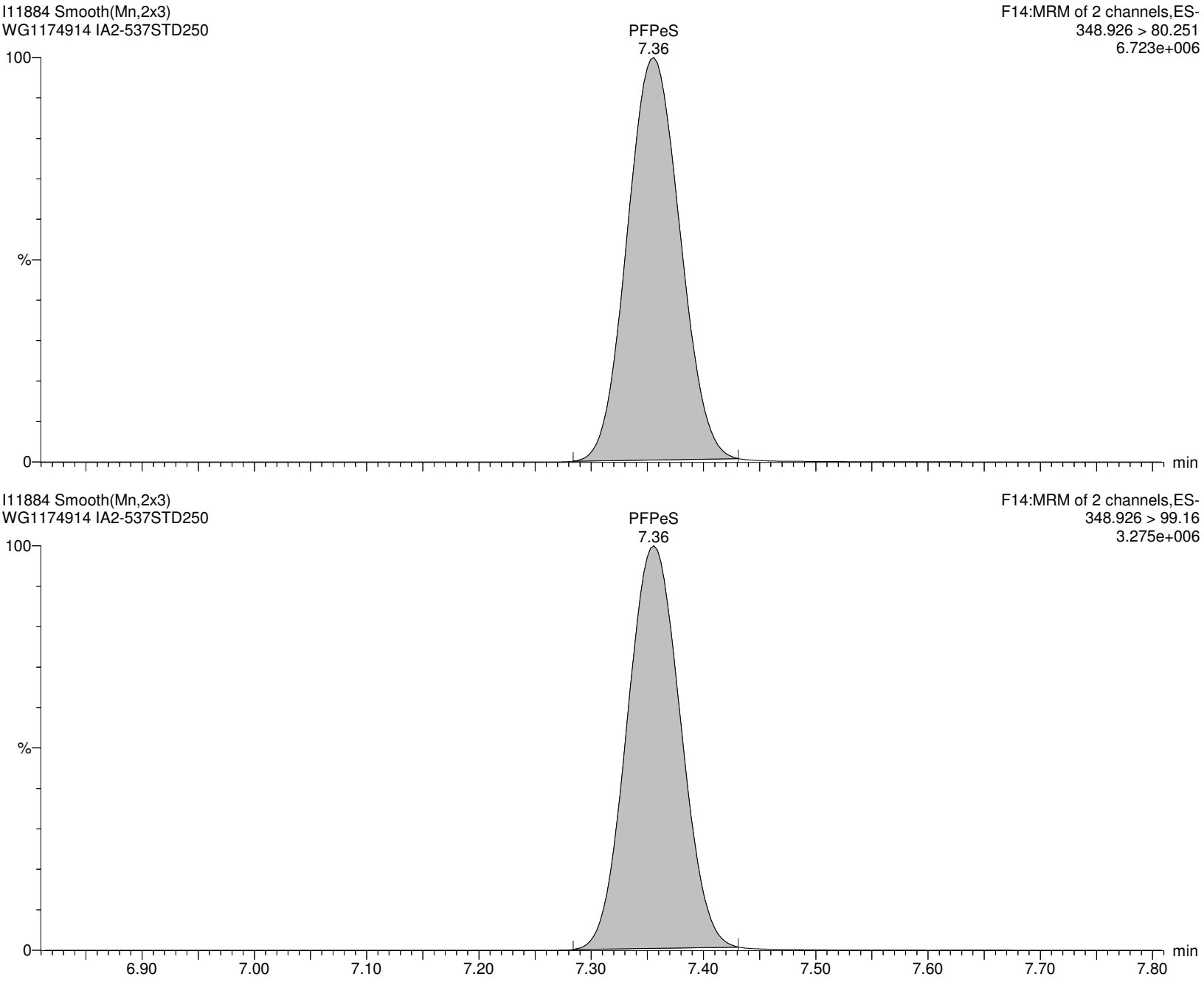

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:27 Eastern Daylight Time

Name: I11884
ID: IA2-537STD250
Date: 01-Nov-2018
Time: 18:41:43
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
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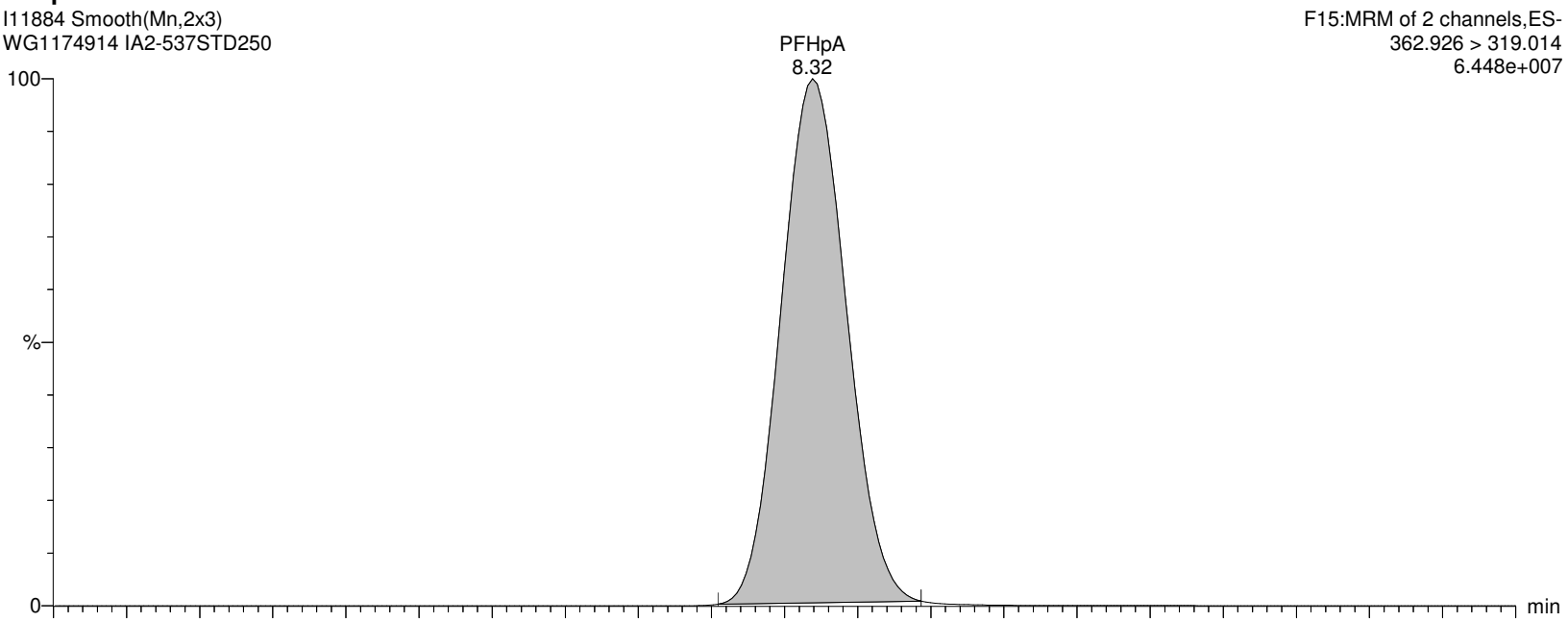
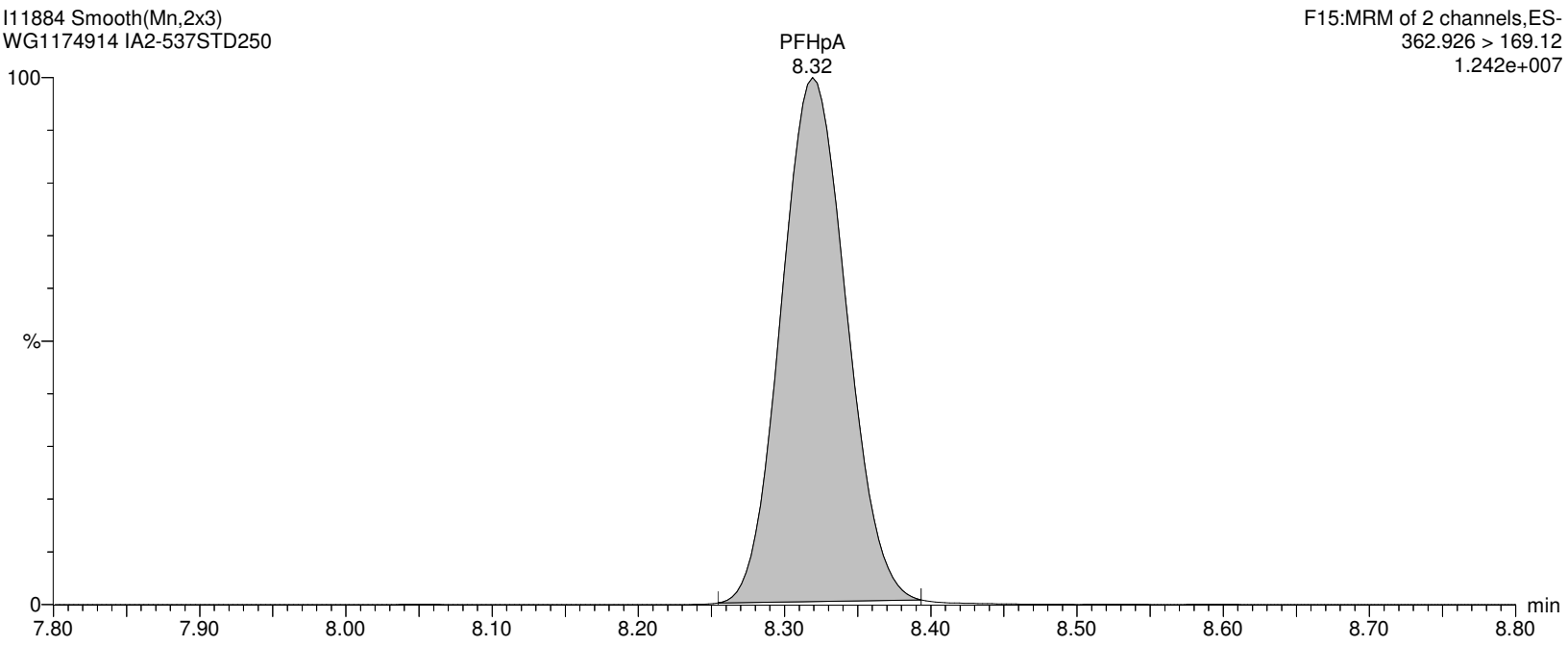
PFHpA





all concentration units in (ng/mL)

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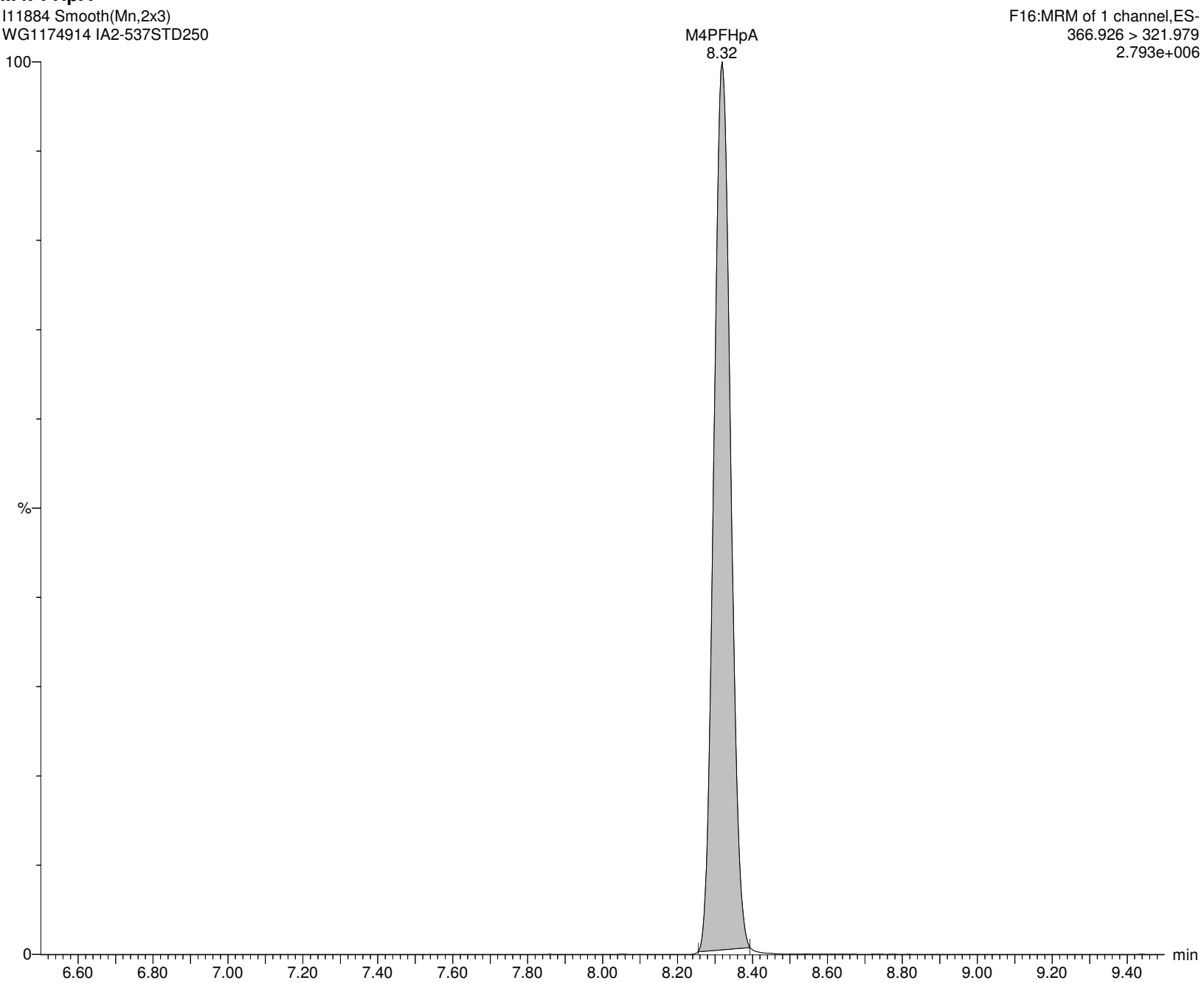

all concentration units in (ng/mL)

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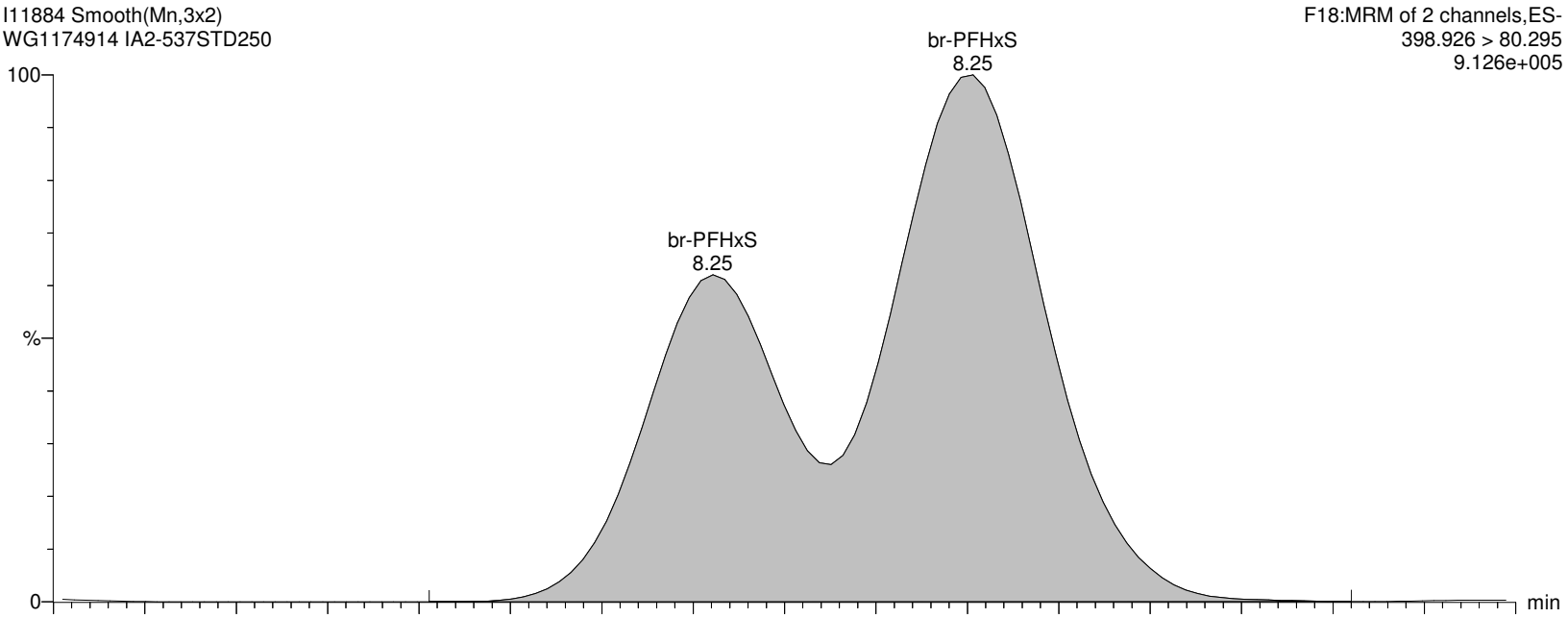

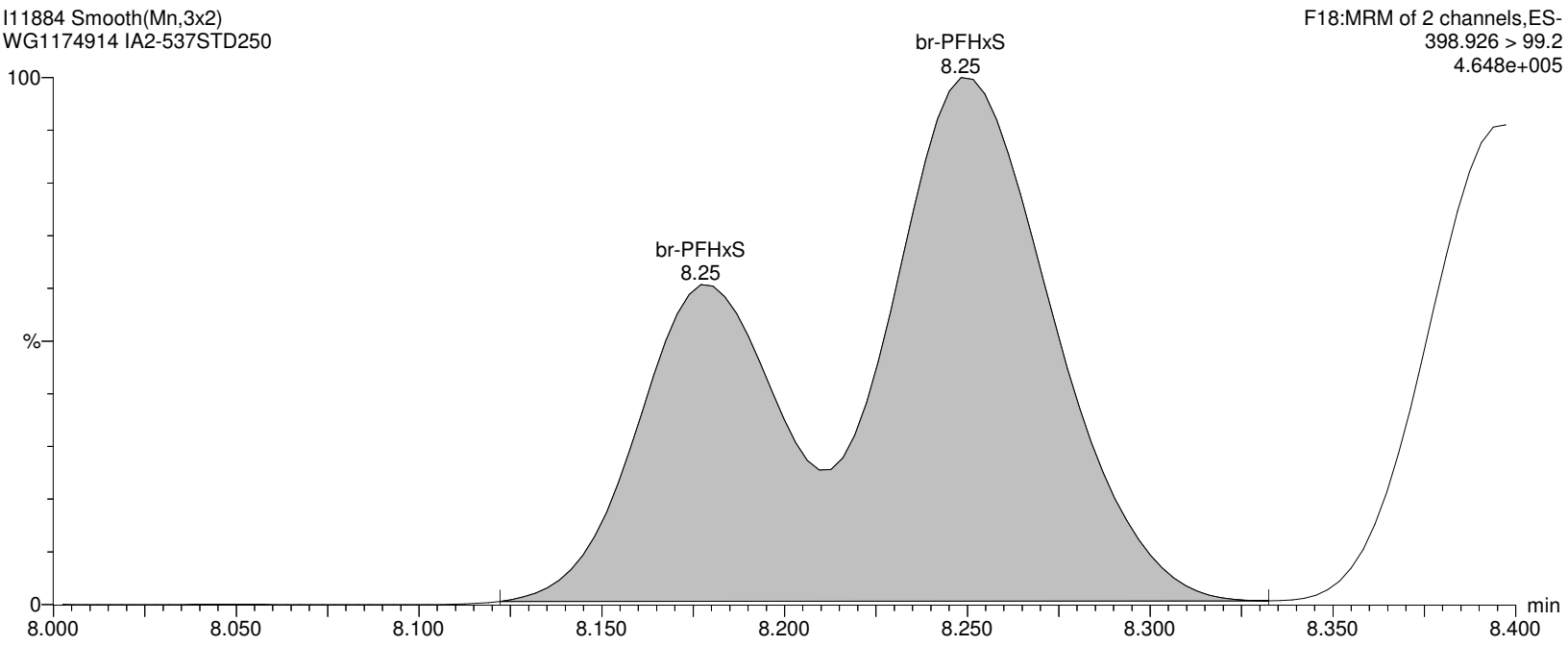

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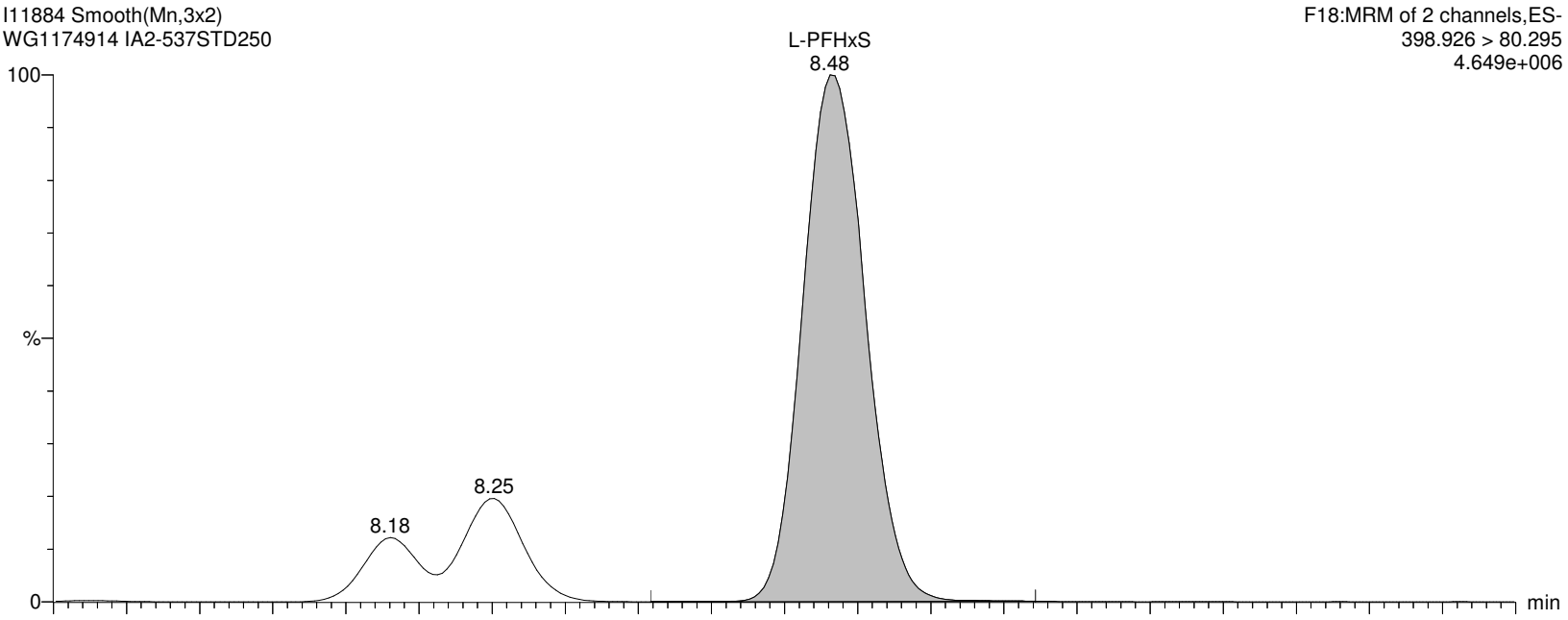

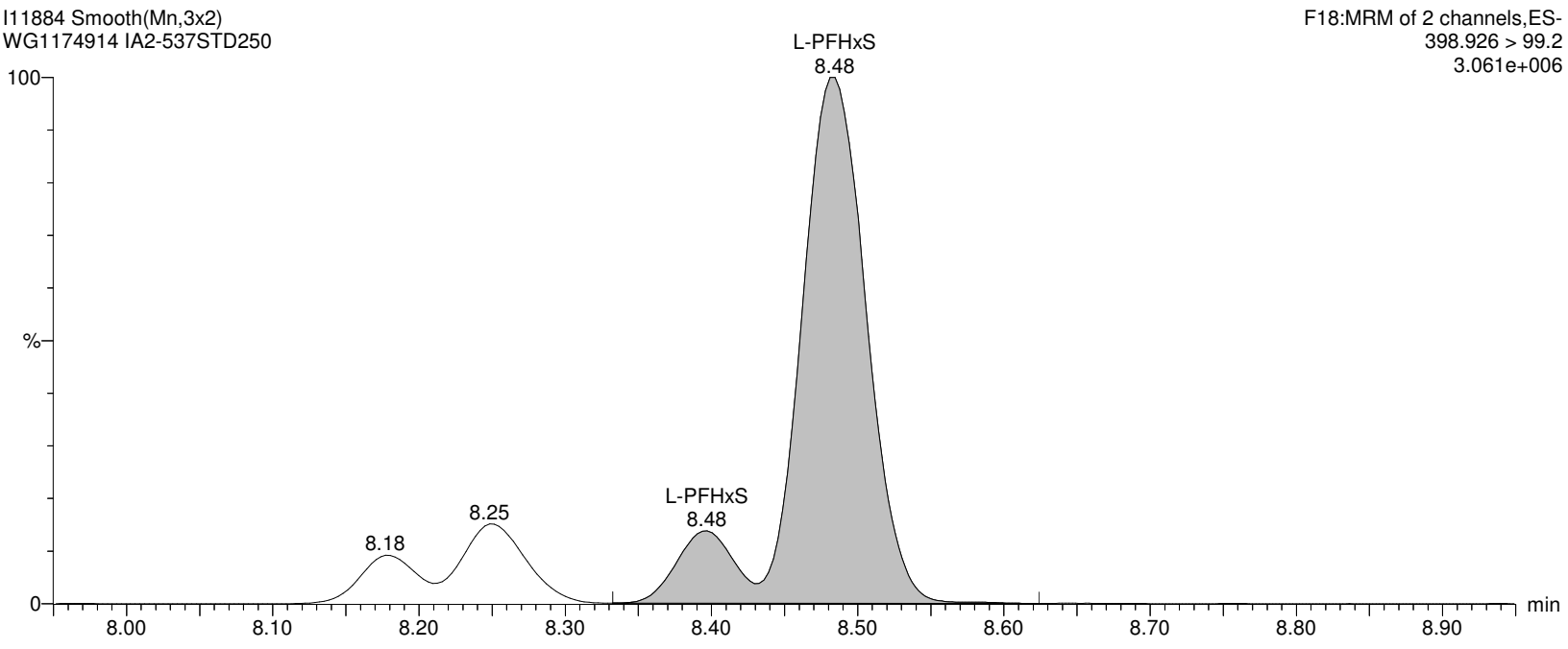

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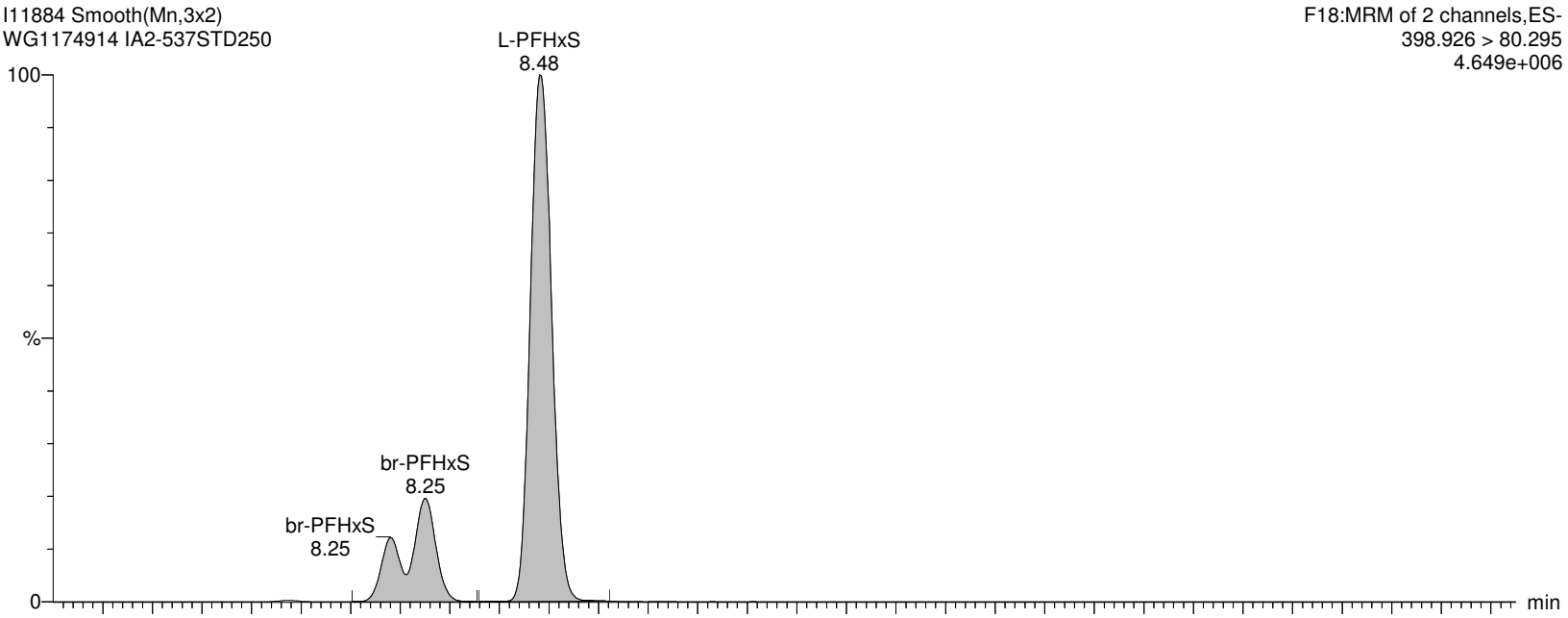

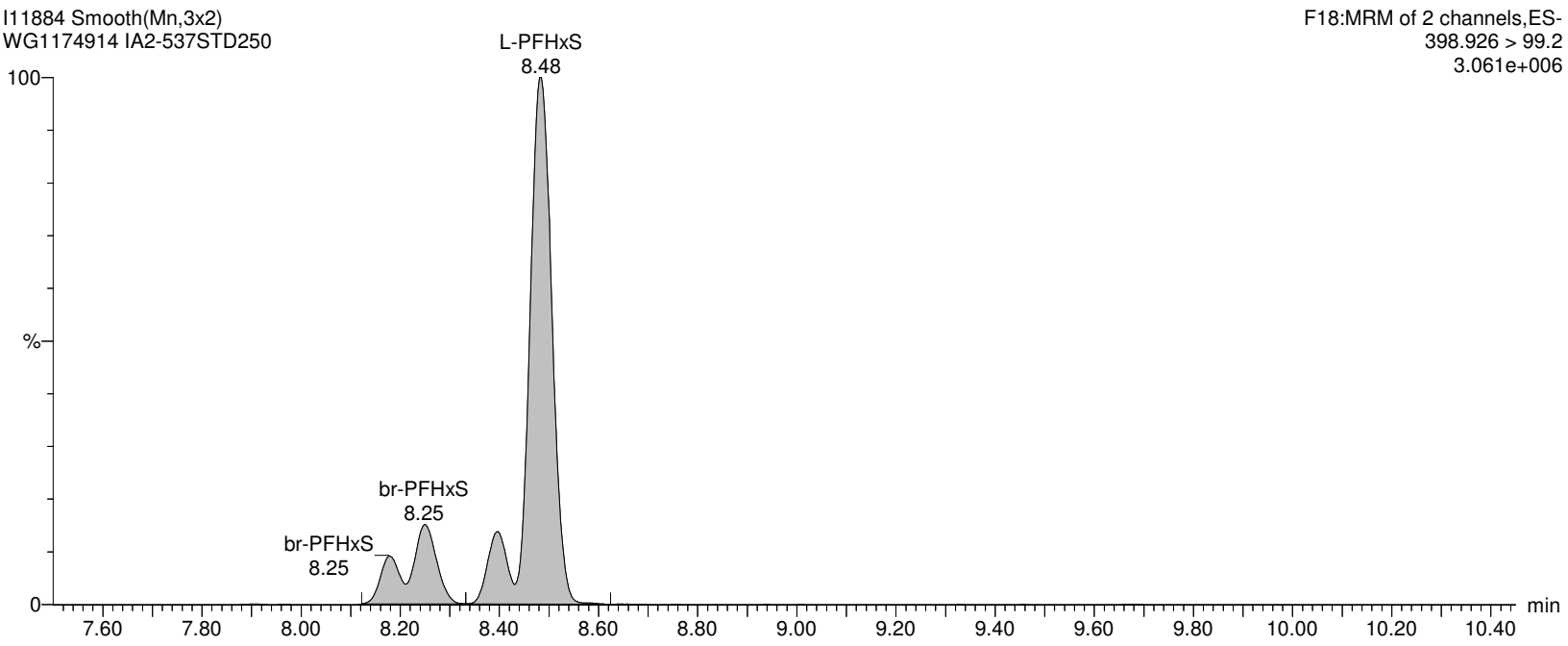

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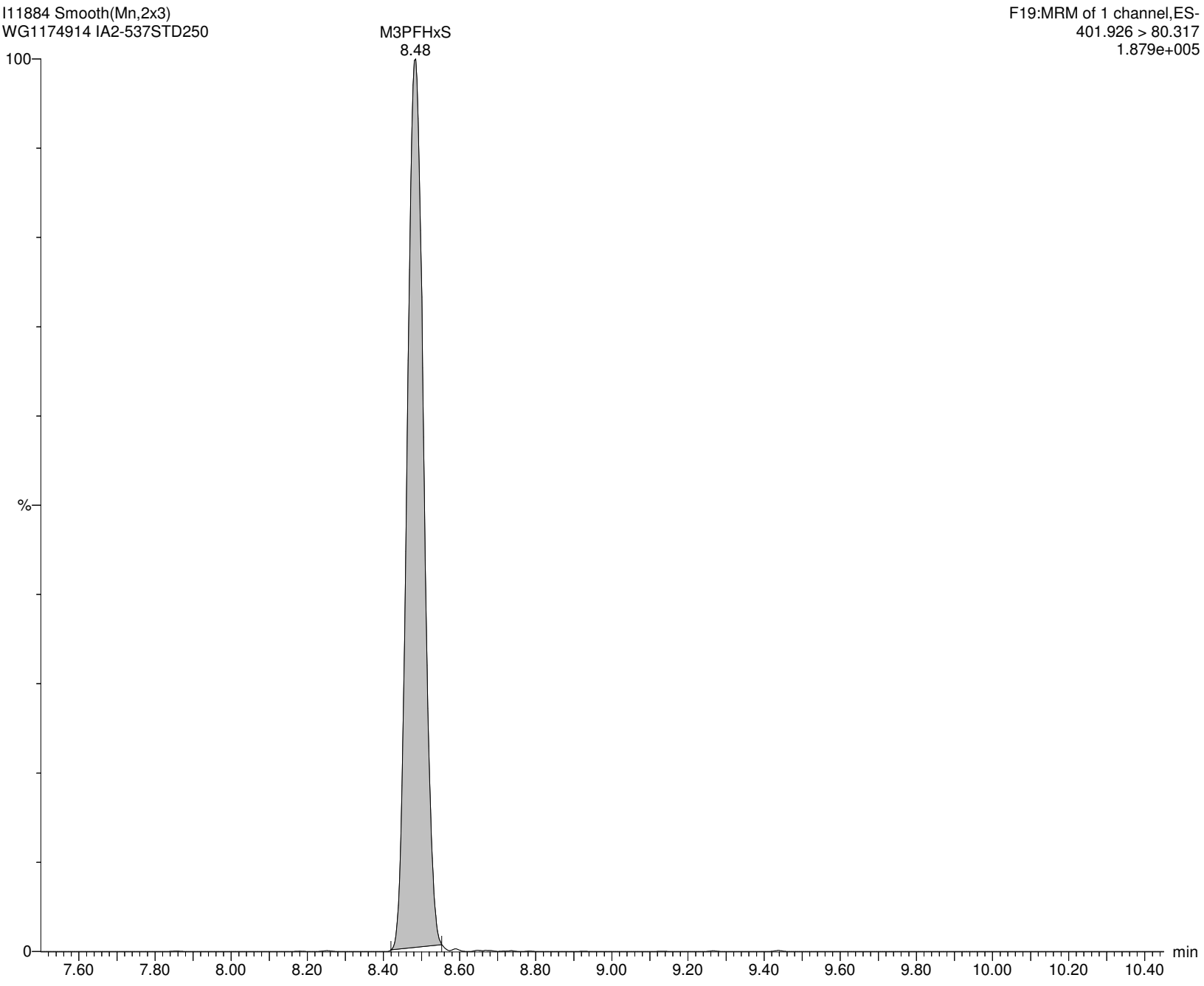

all concentration units in (ng/mL)

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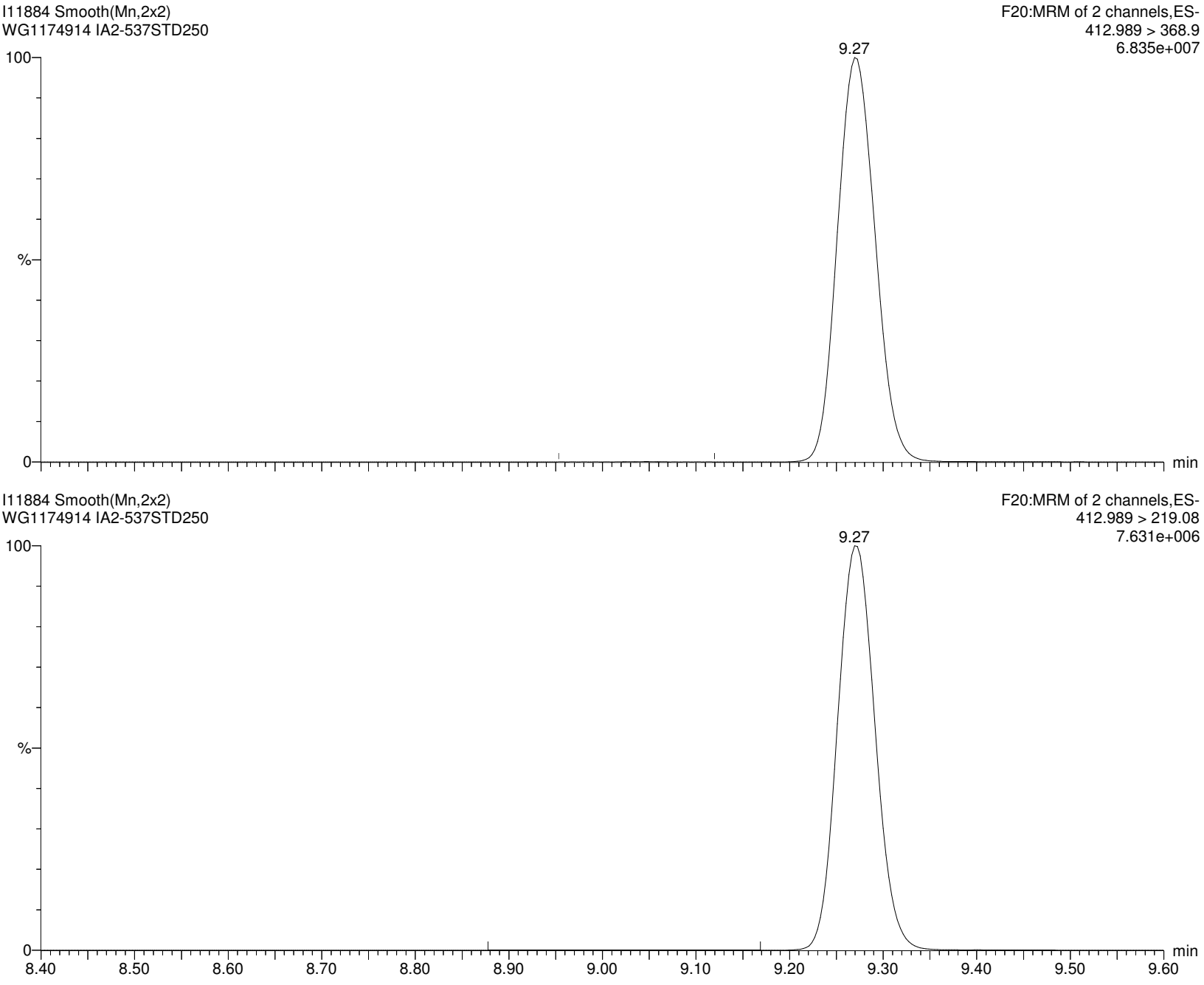

all concentration units in (ng/mL)

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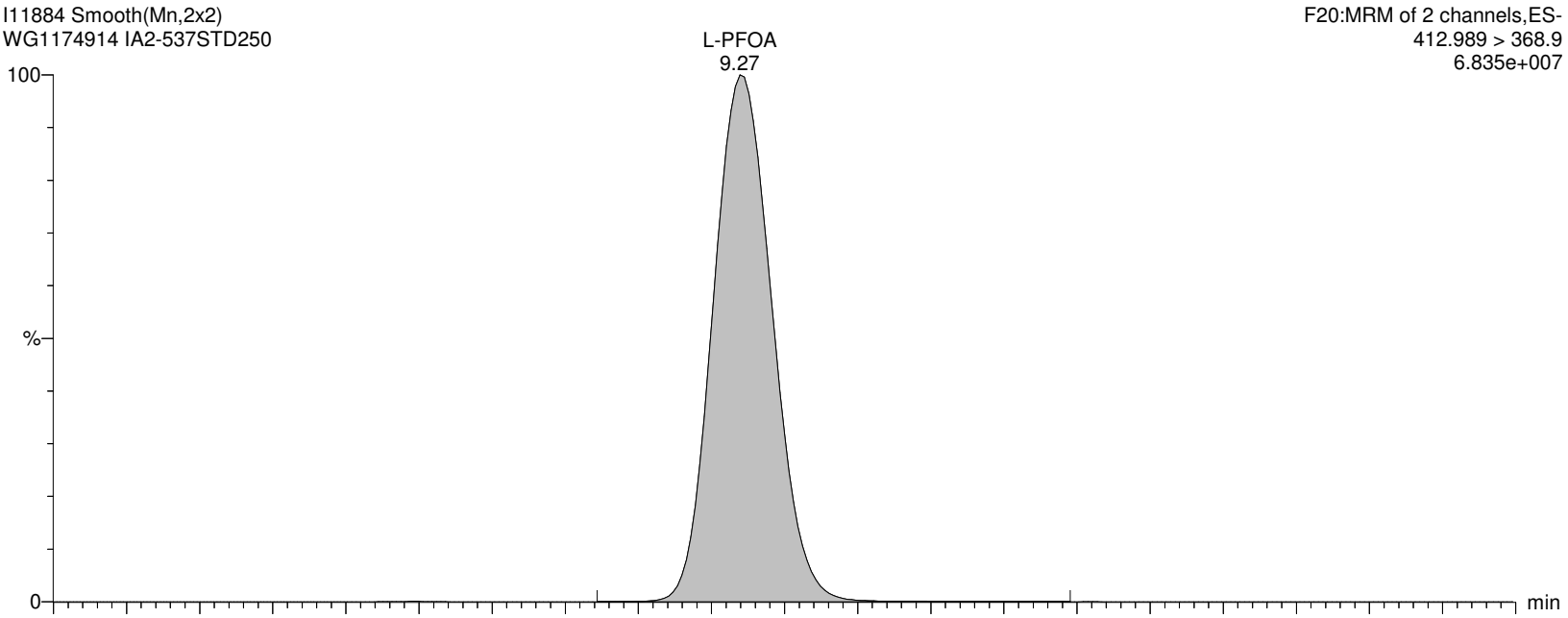

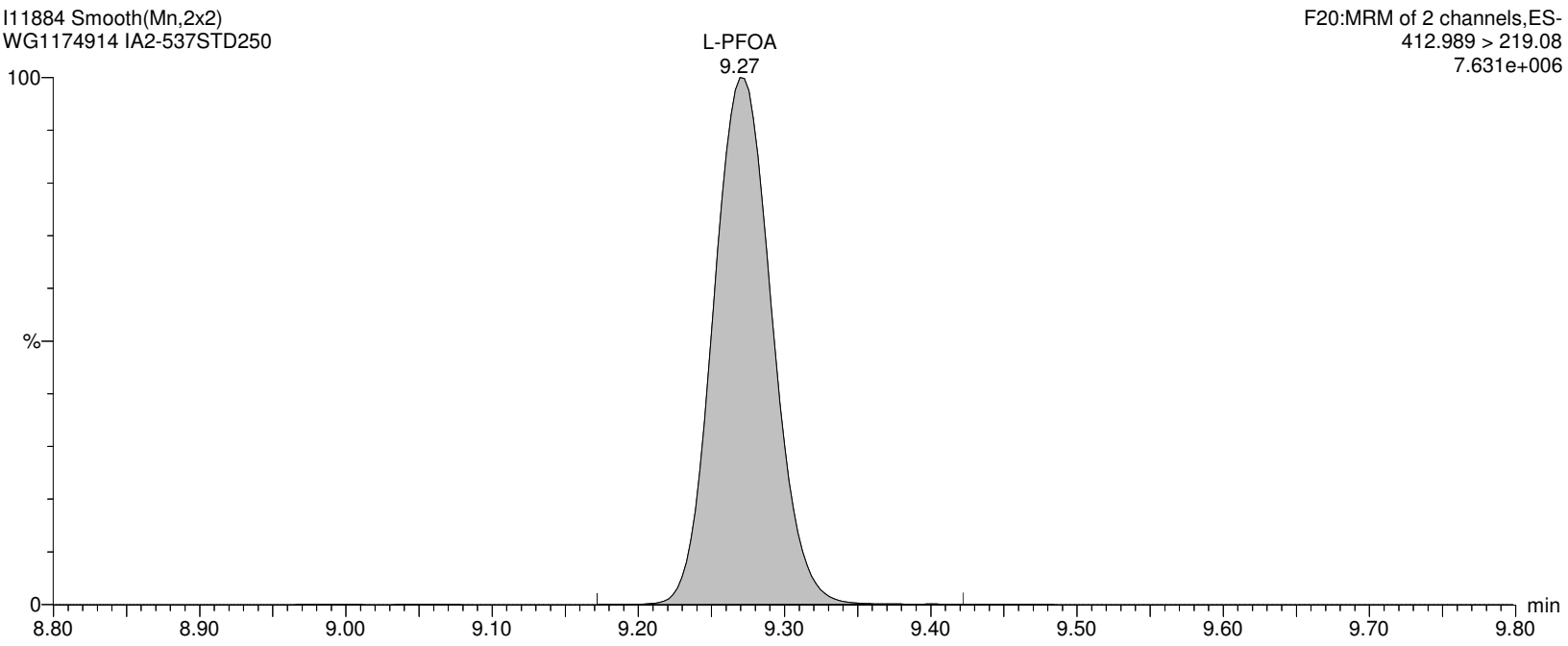

all concentration units in (ng/mL)

Alpha Analytical Inc.
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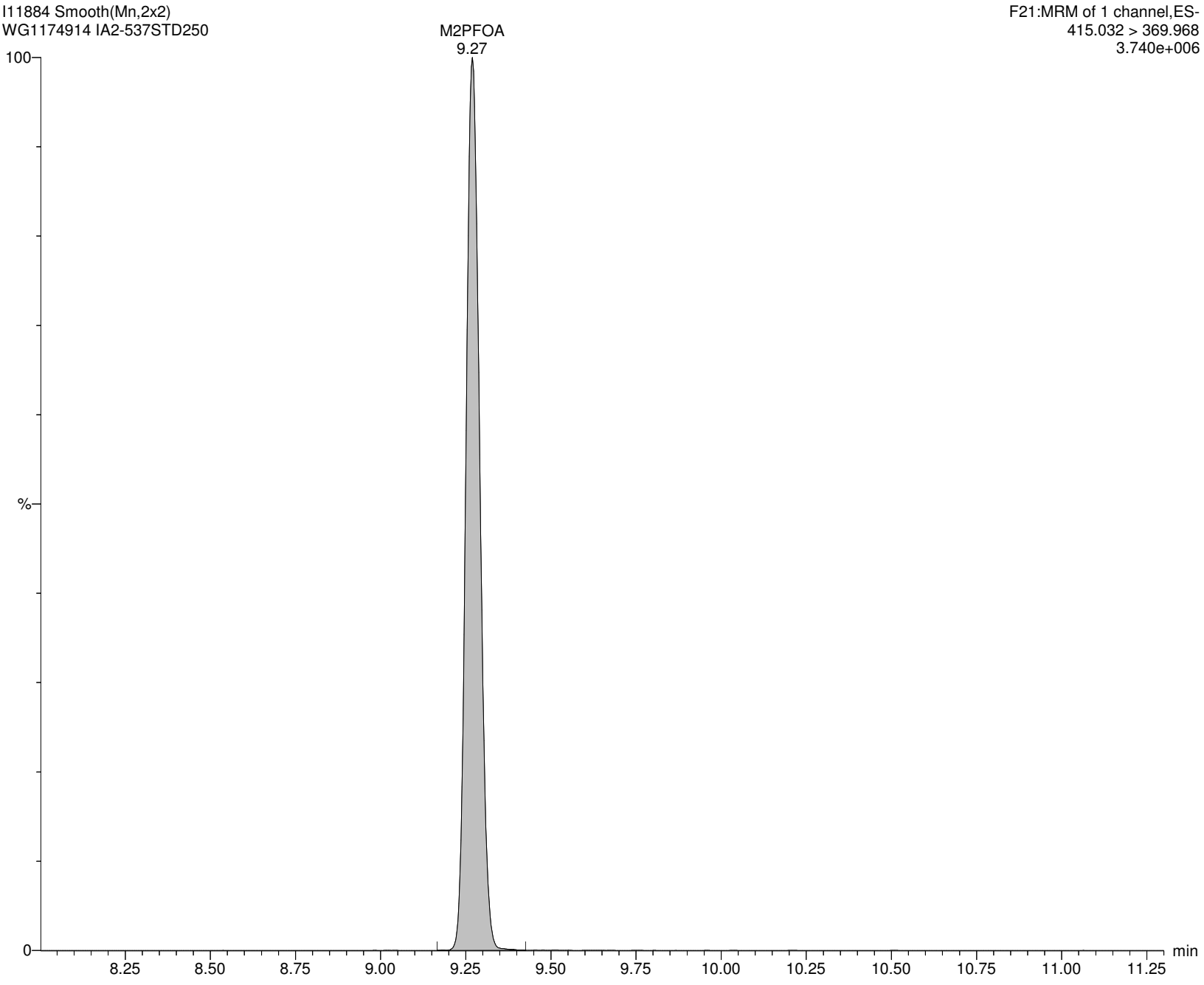

all concentration units in (ng/mL)

Alpha Analytical Inc.
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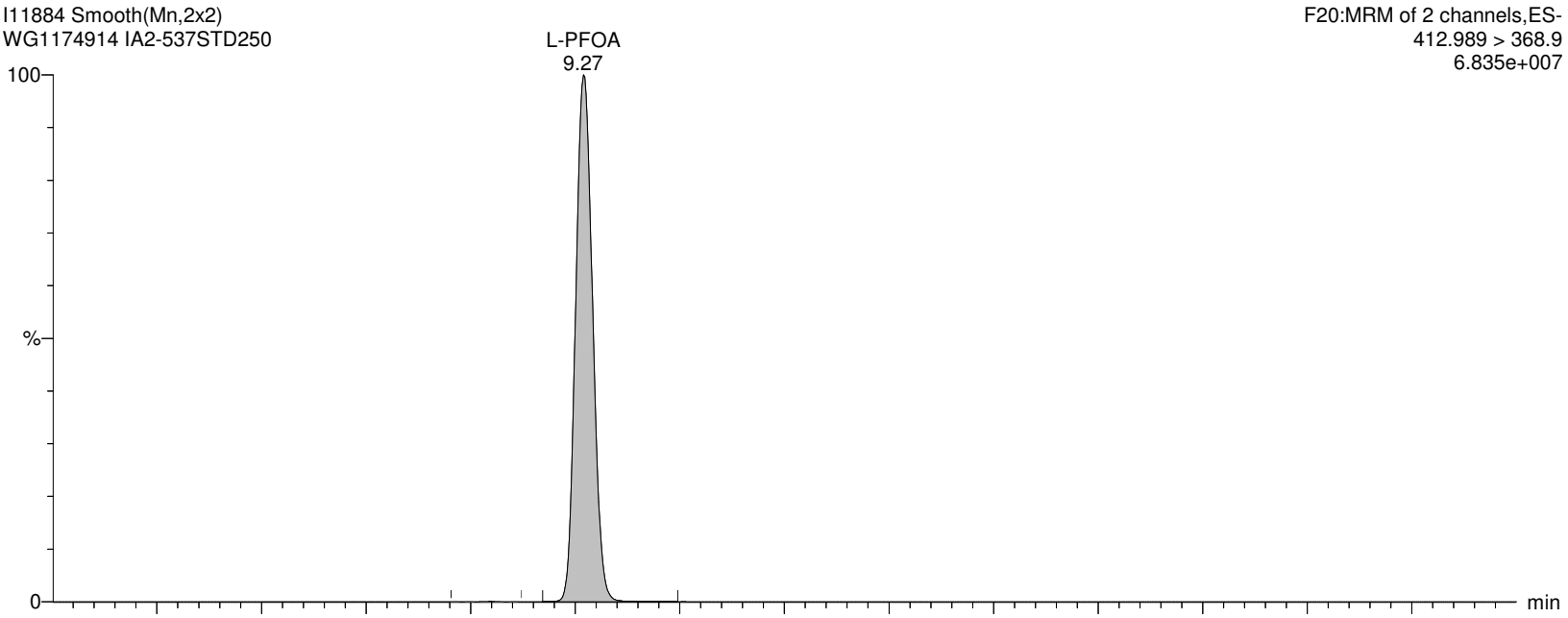

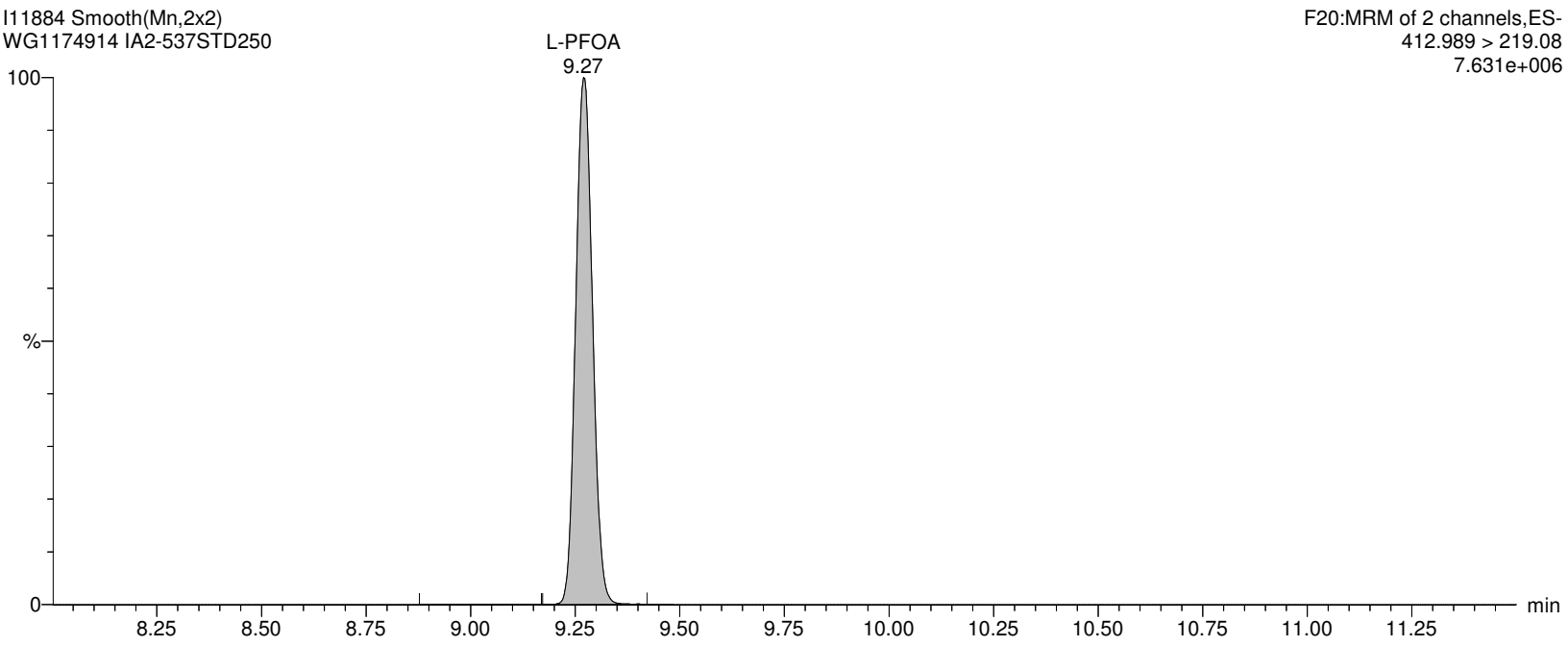

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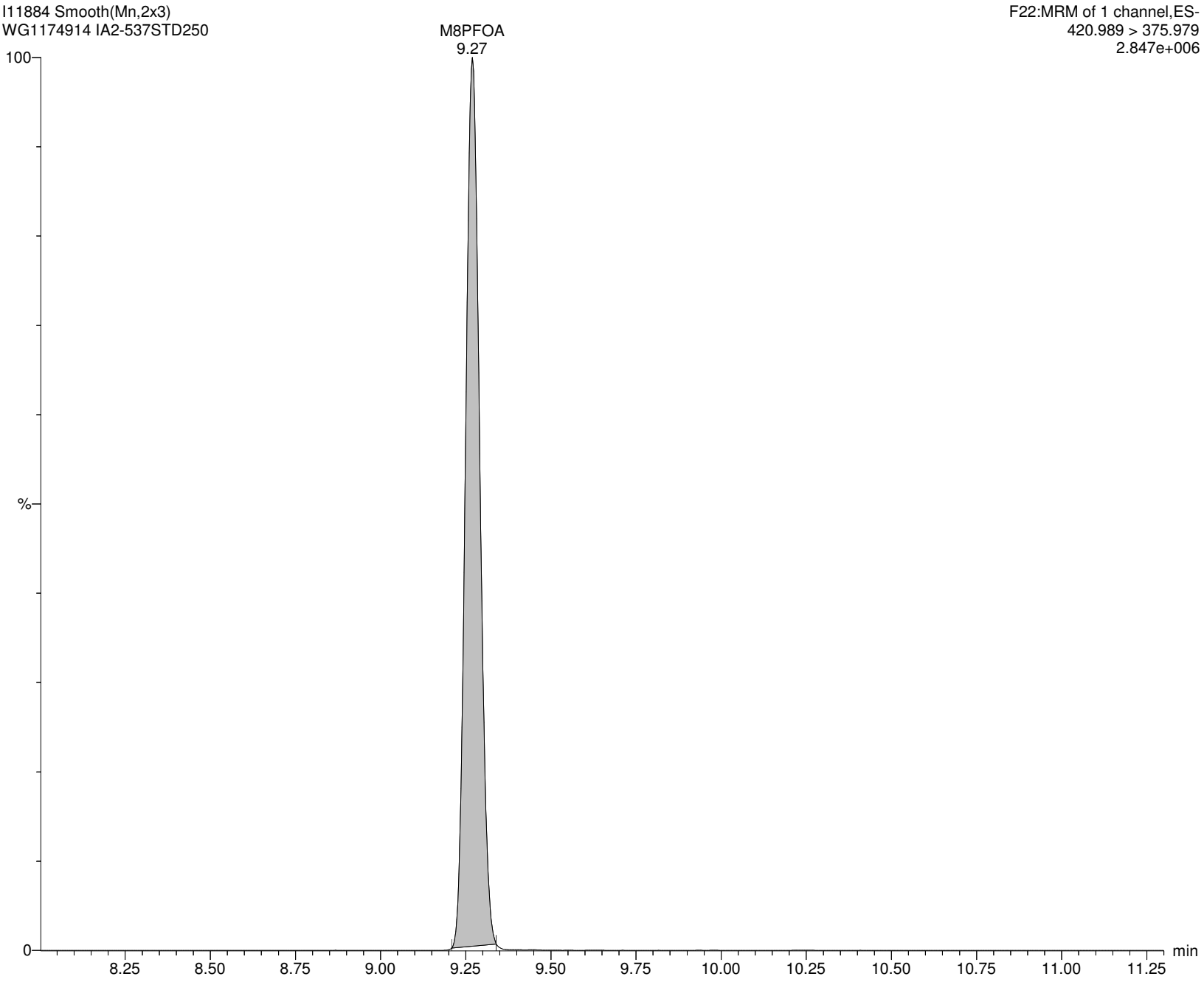

all concentration units in (ng/mL)

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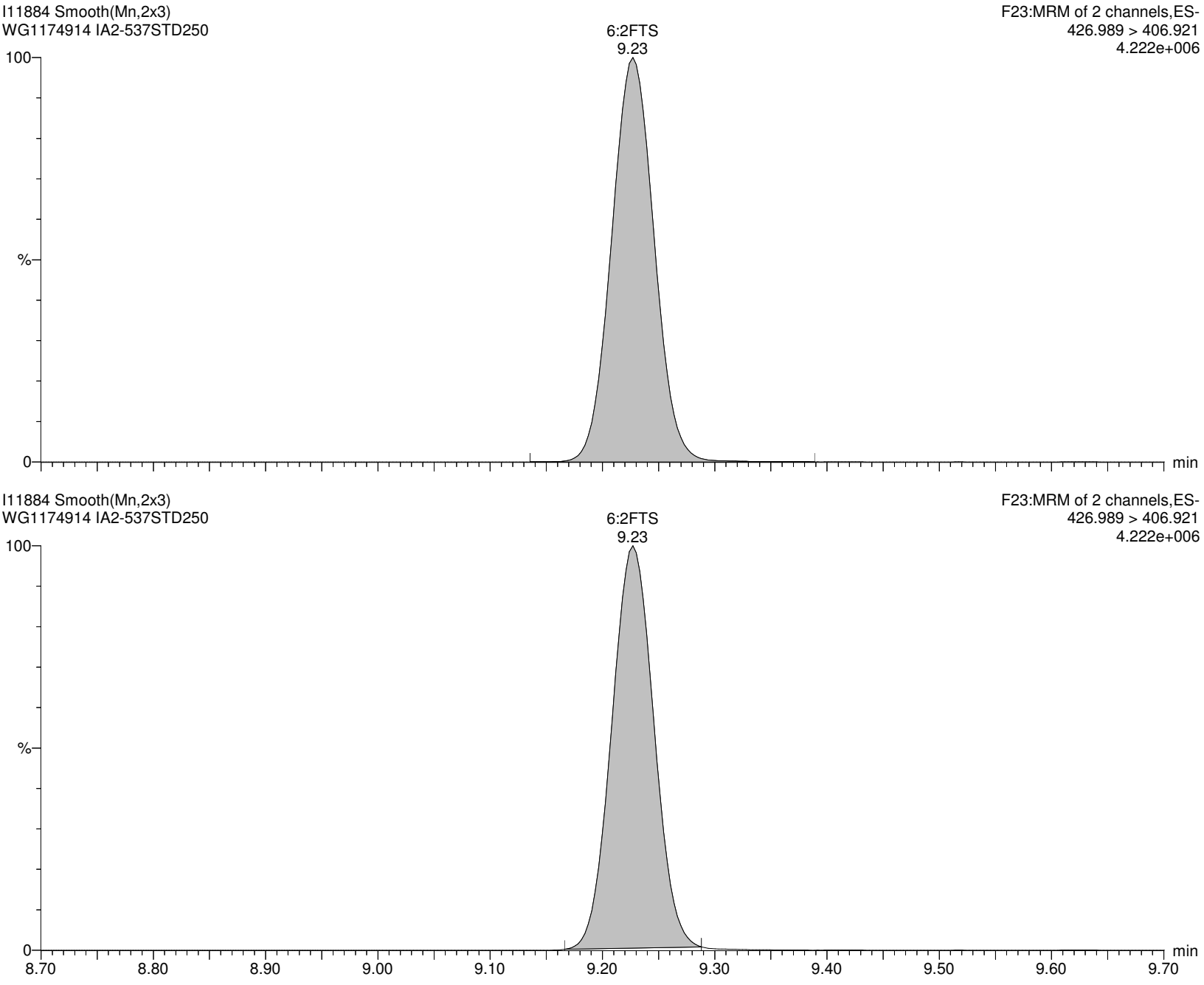
6:2FTS



all concentration units in (ng/mL)

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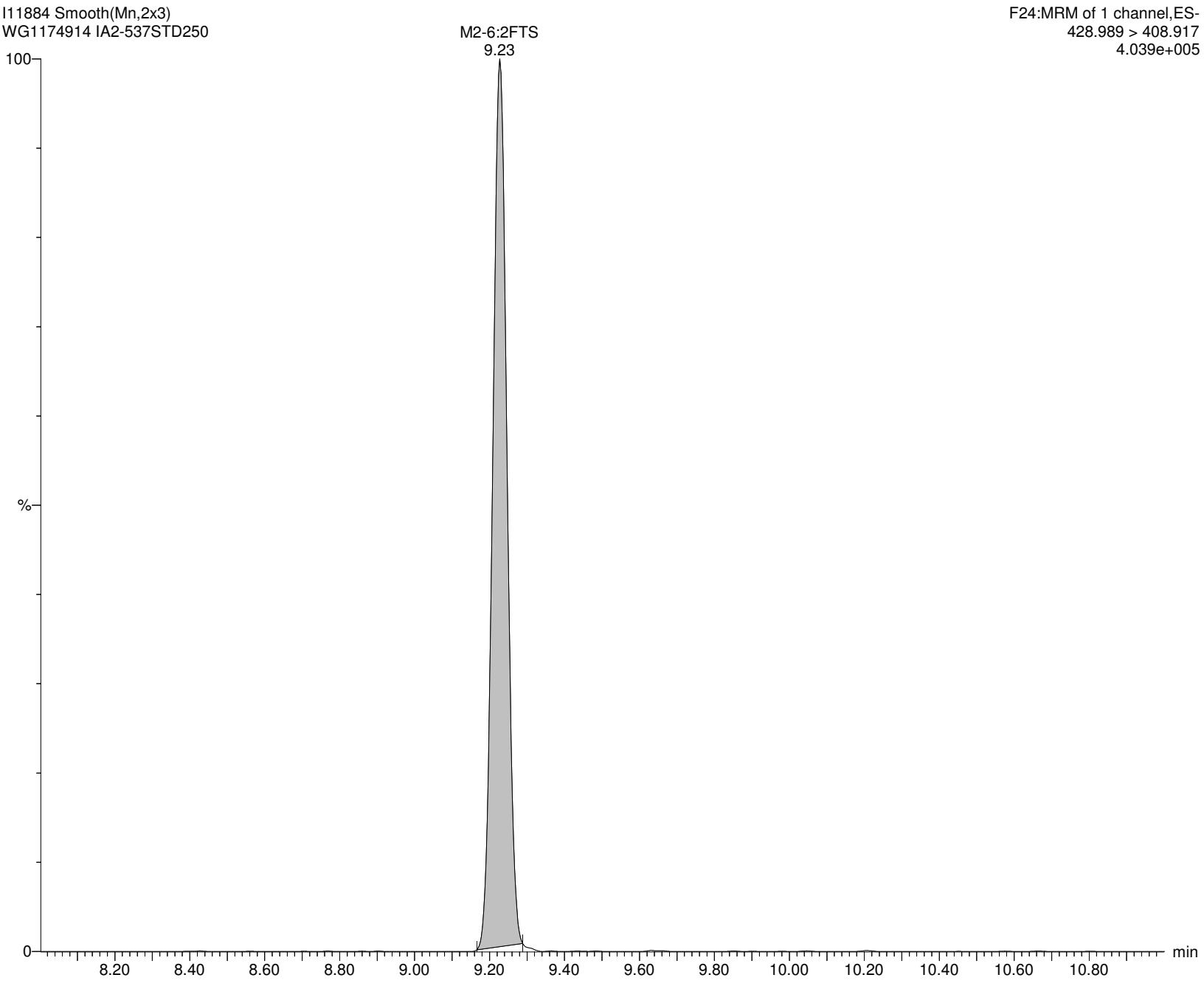

all concentration units in (ng/mL)

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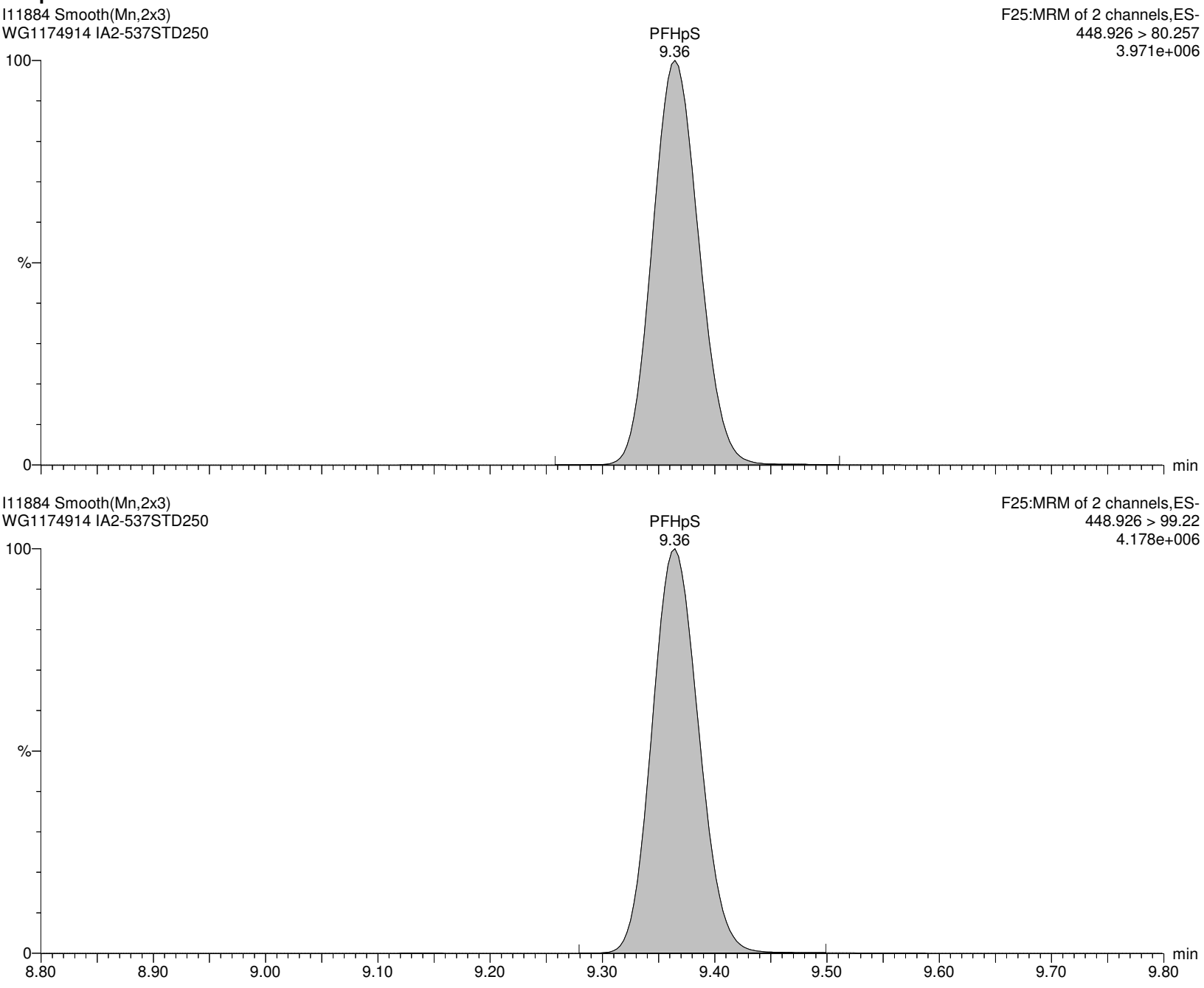

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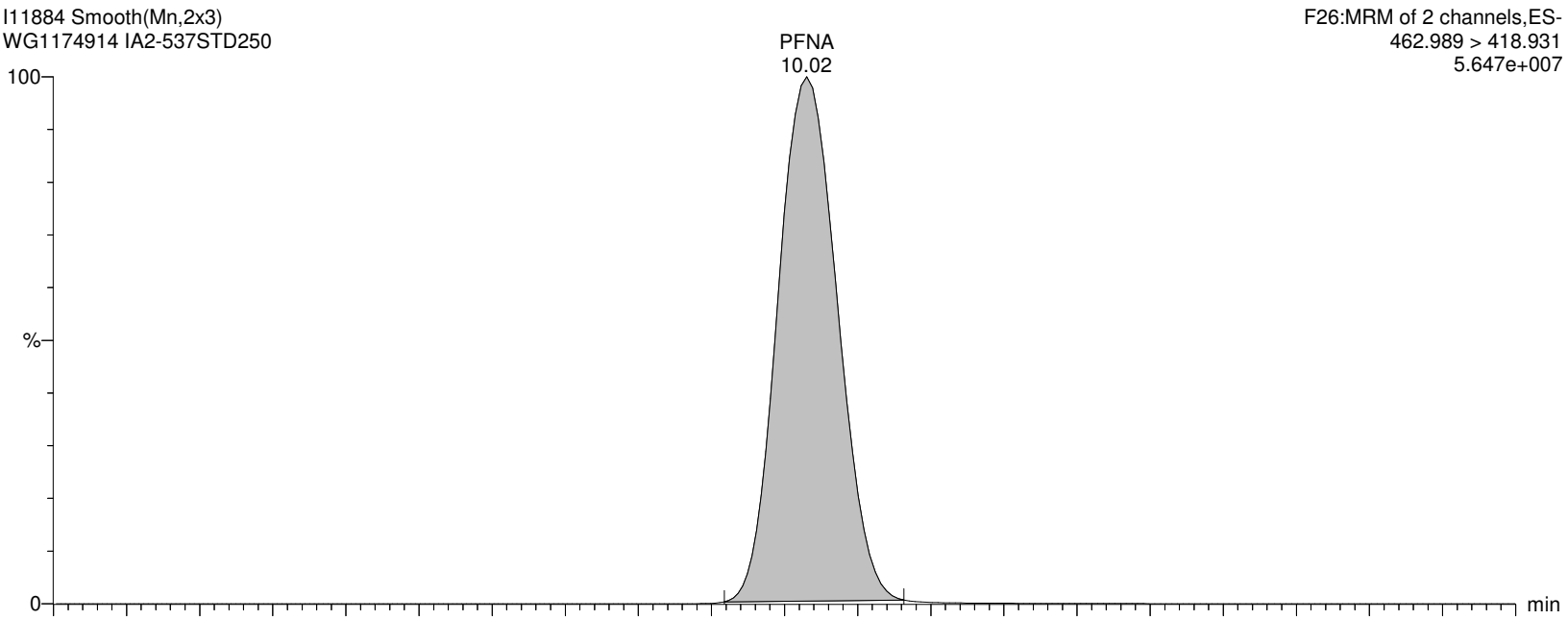

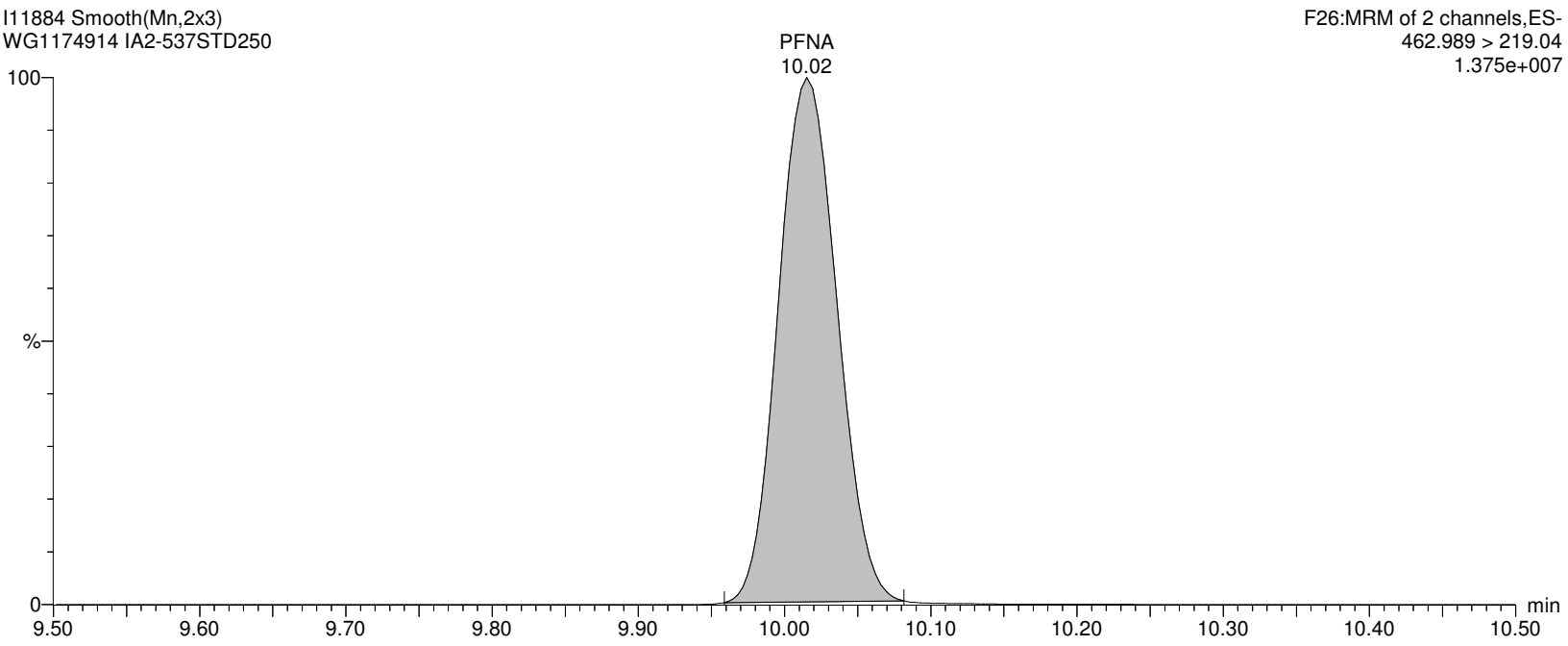

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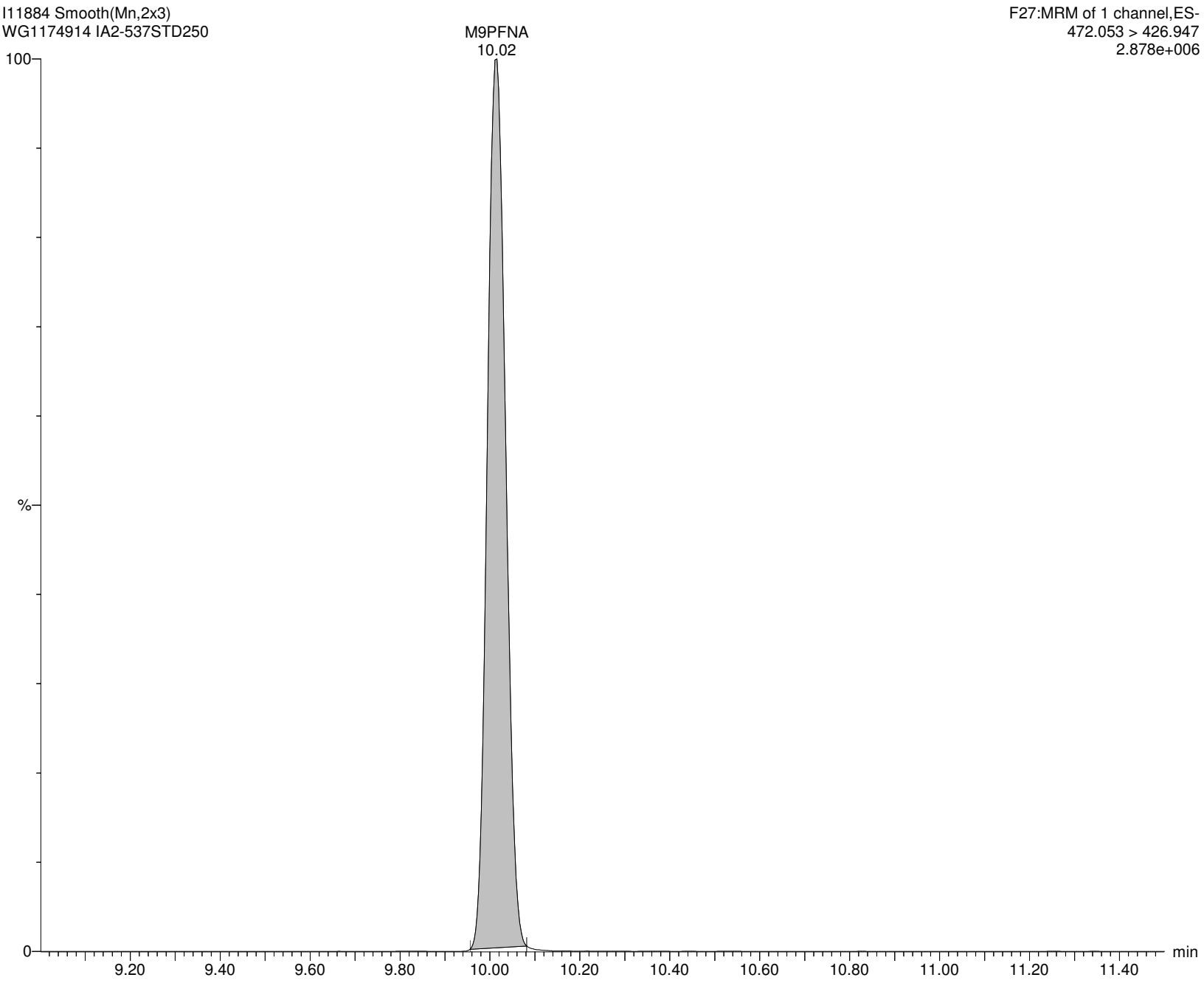
M9PFNA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:27 Eastern Daylight Time

Name: I11884
ID: IA2-537STD250
Date: 01-Nov-2018
Time: 18:41:43
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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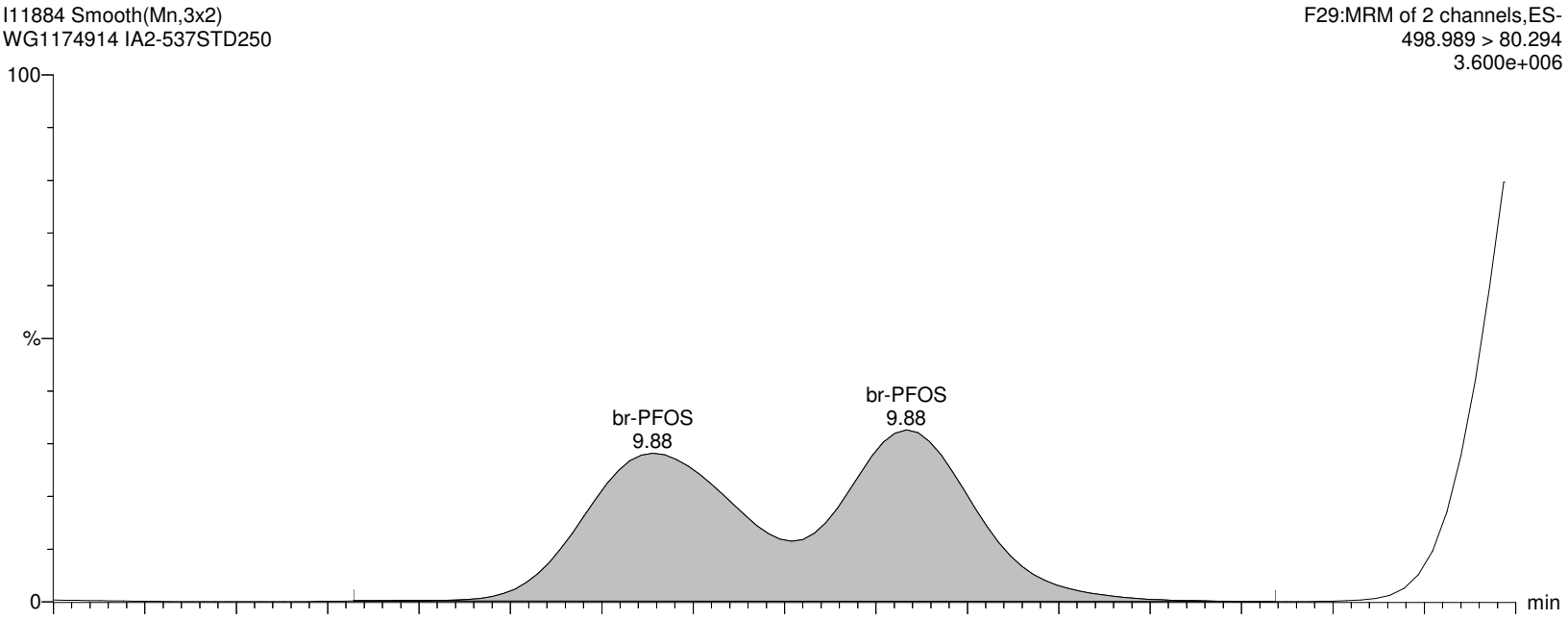

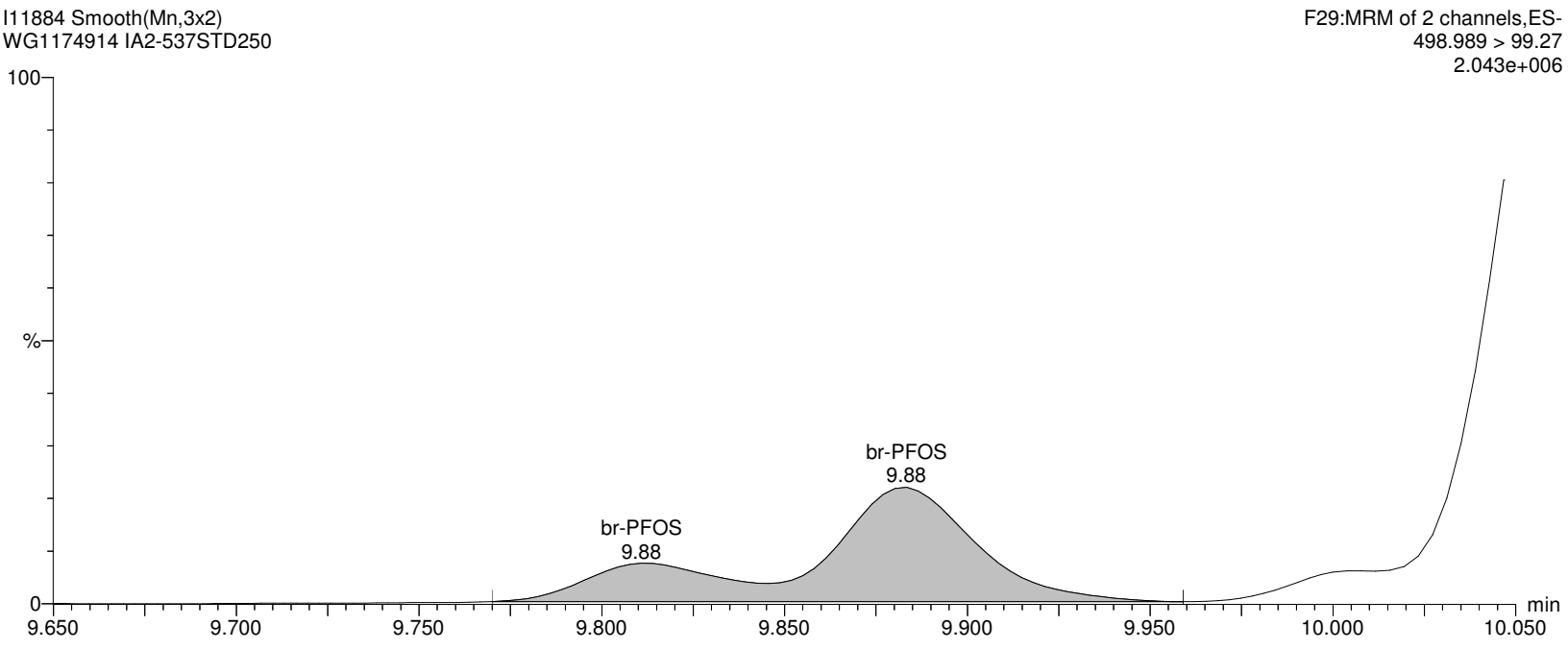

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
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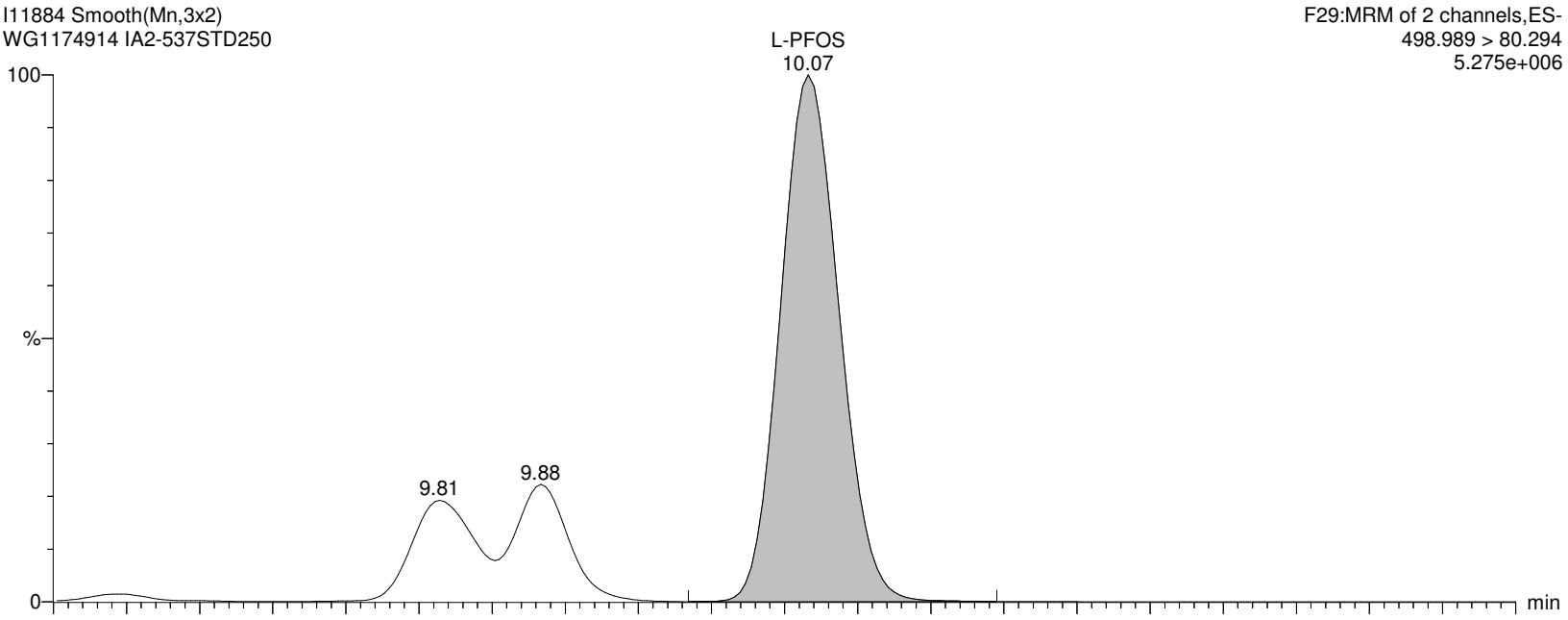

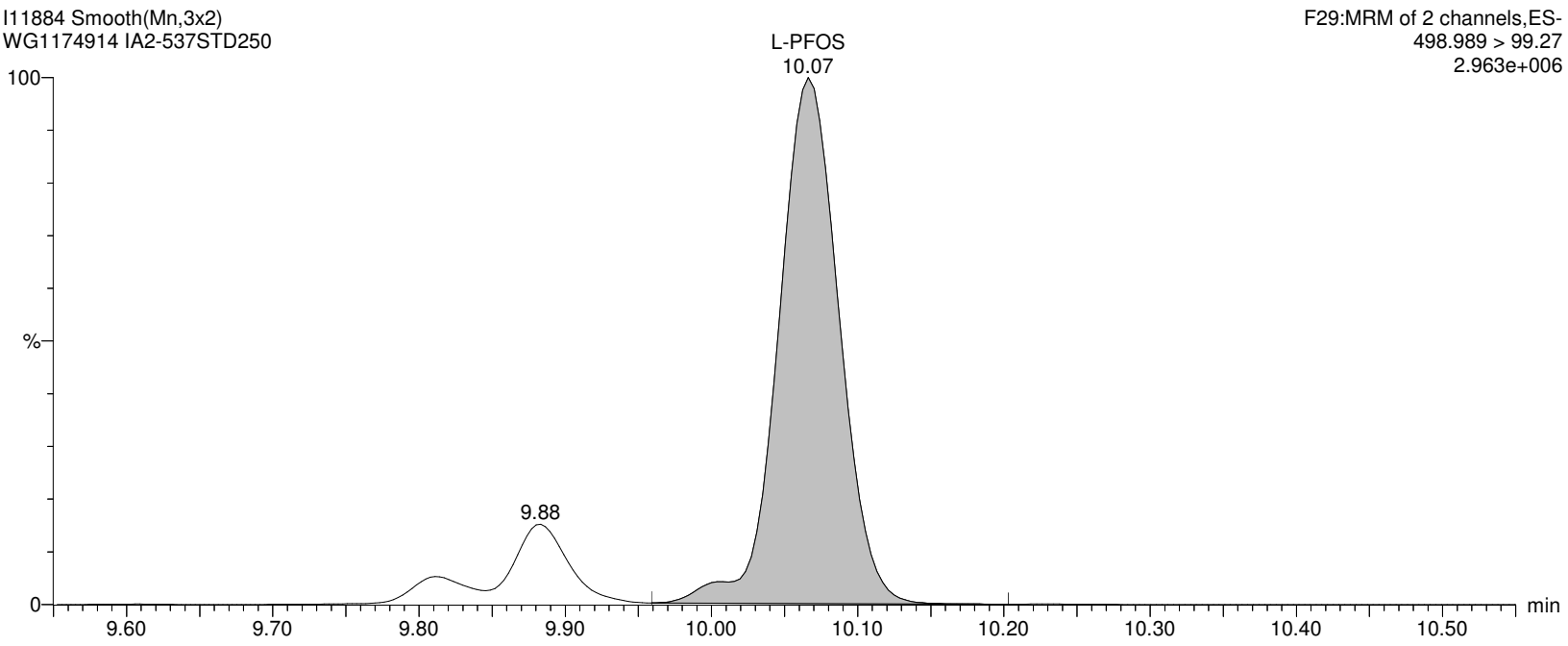

all concentration units in (ng/mL)

Alpha Analytical Inc.
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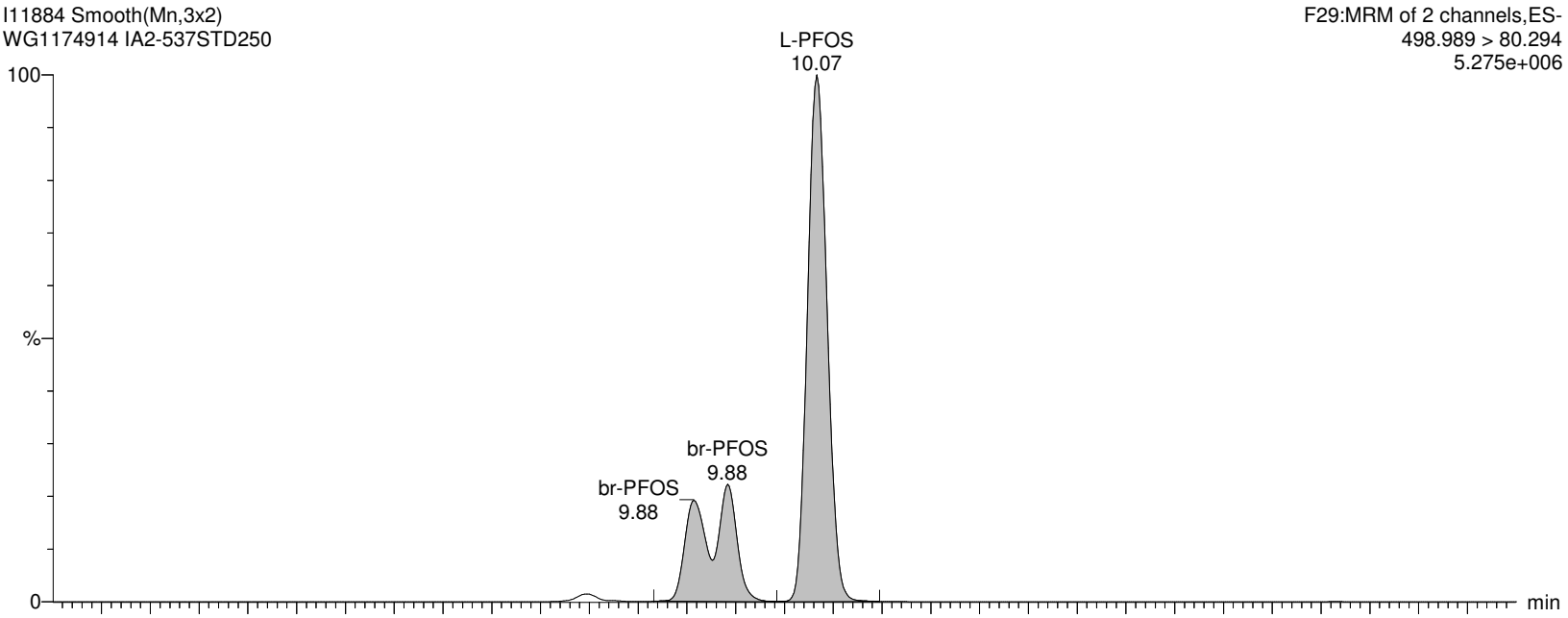

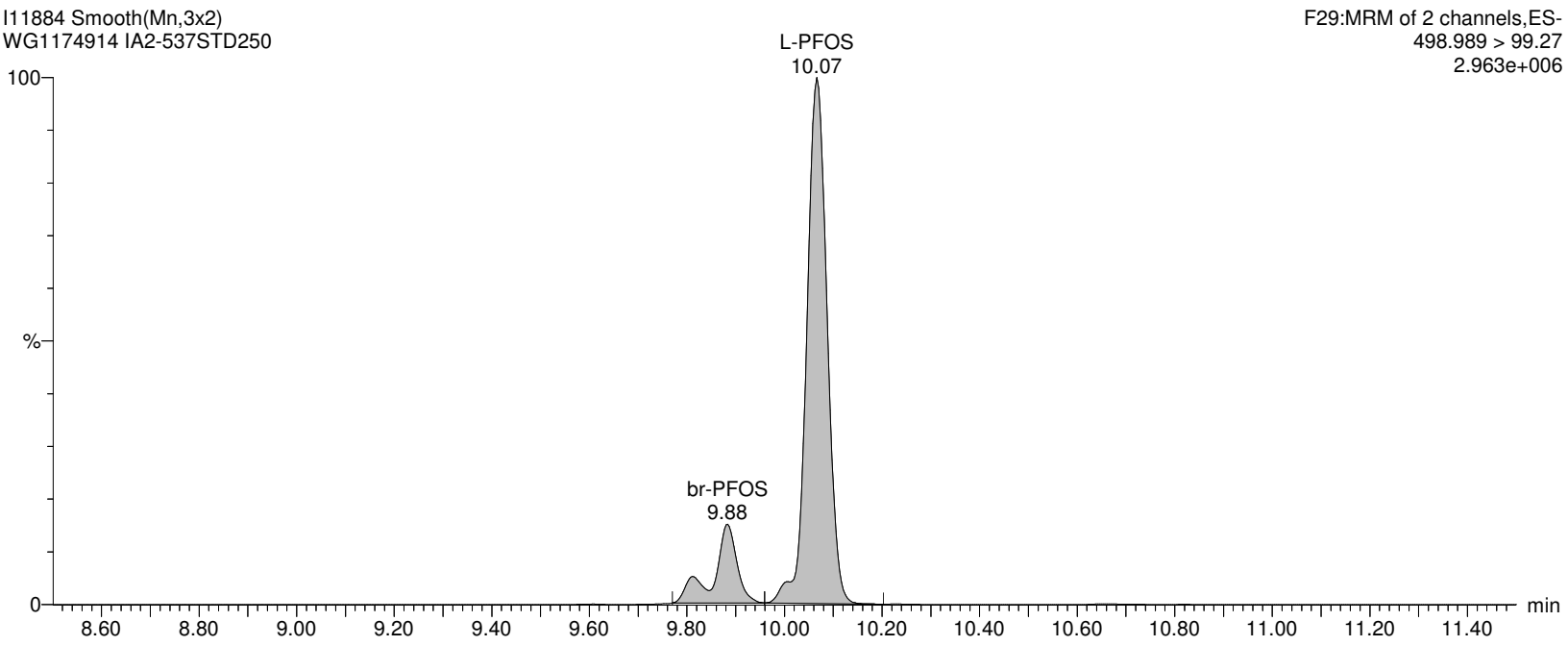

all concentration units in (ng/mL)

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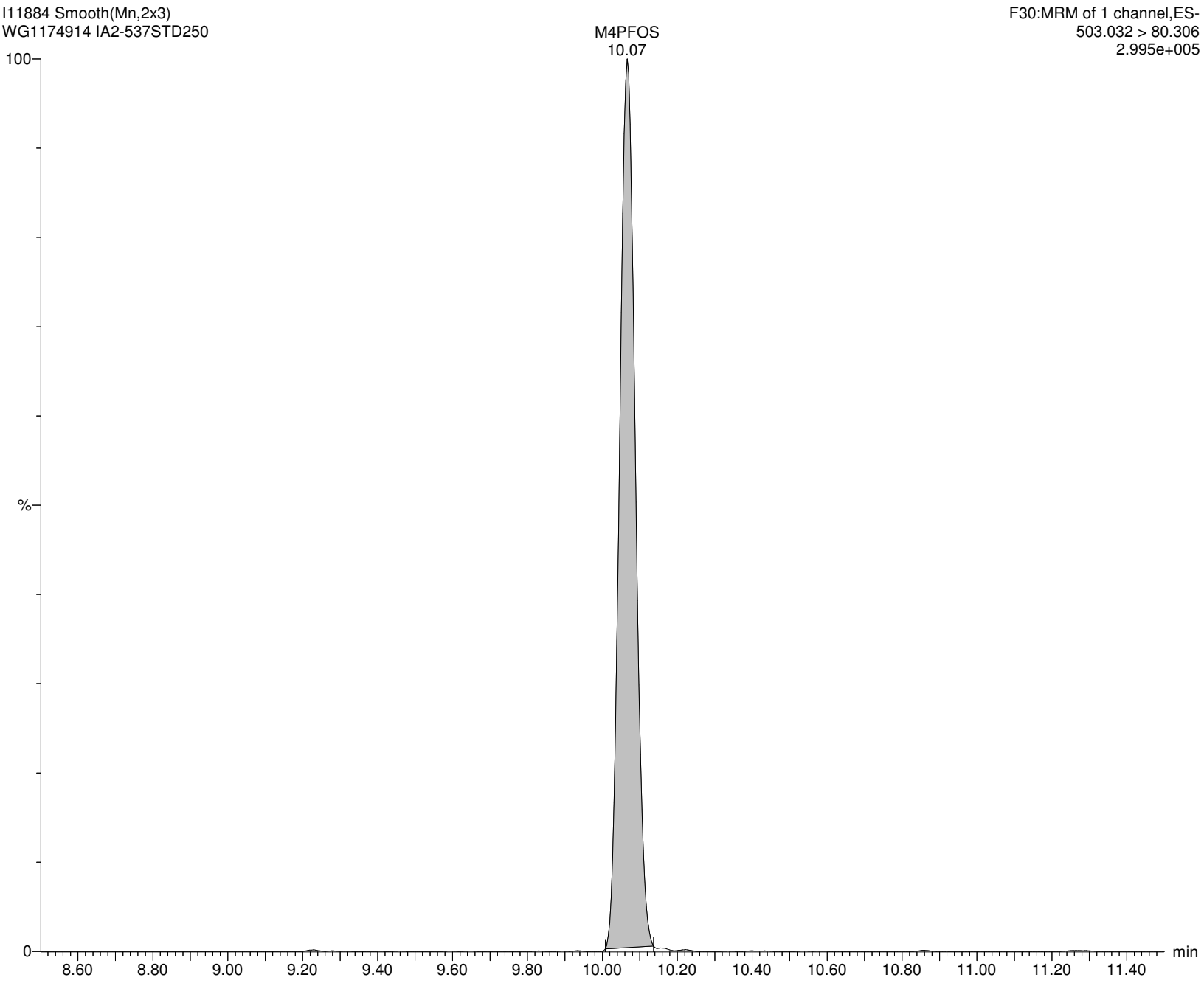

all concentration units in (ng/mL)

Alpha Analytical Inc.
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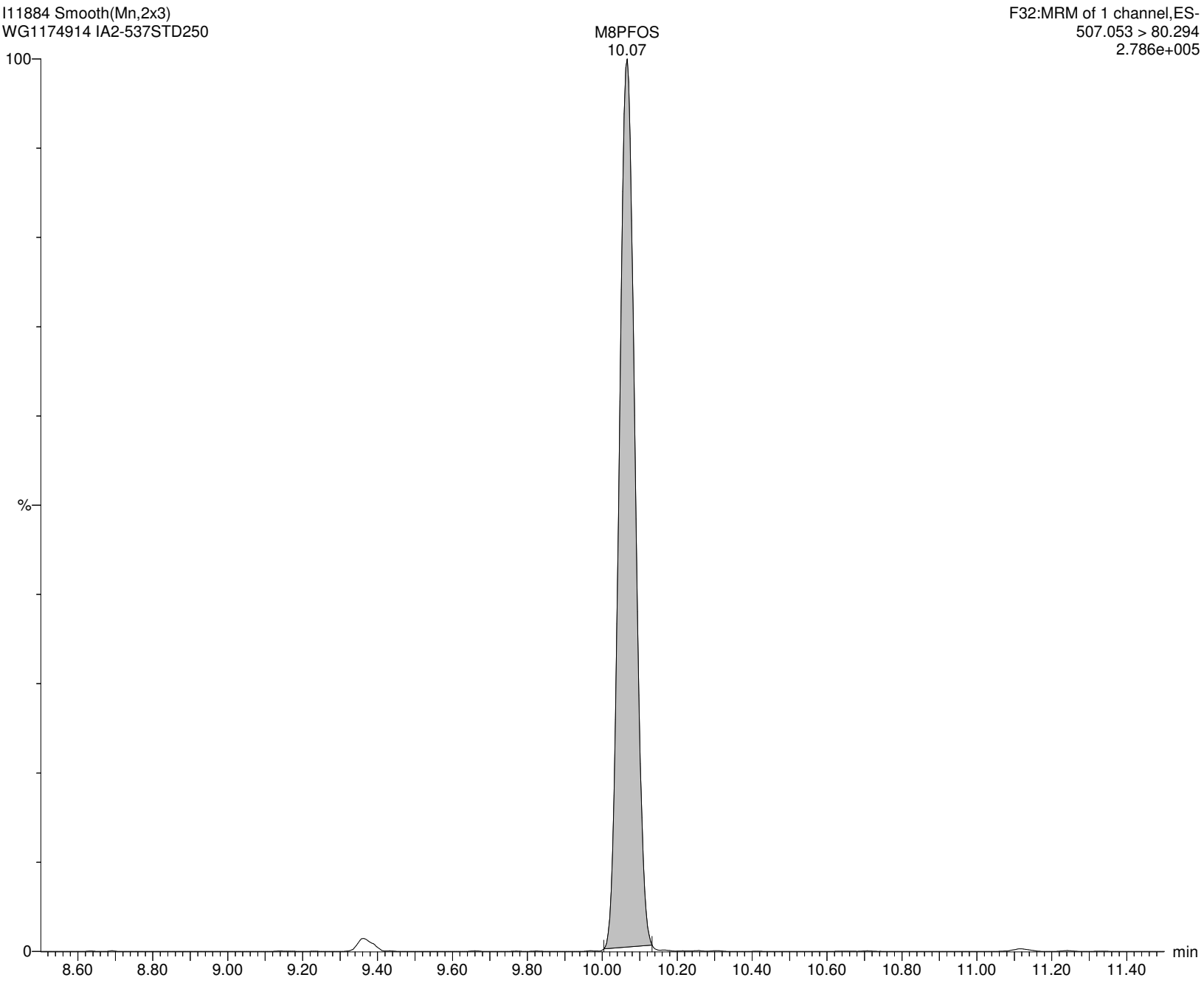

all concentration units in (ng/mL)

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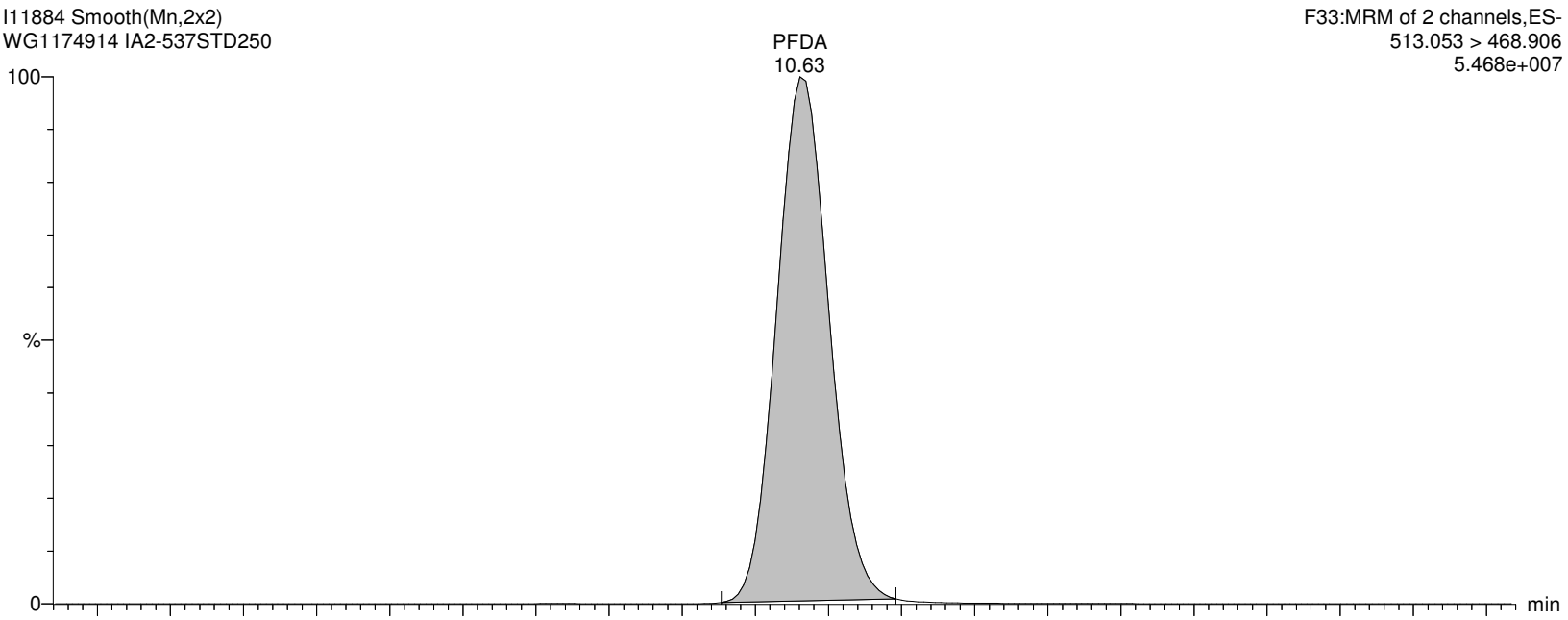

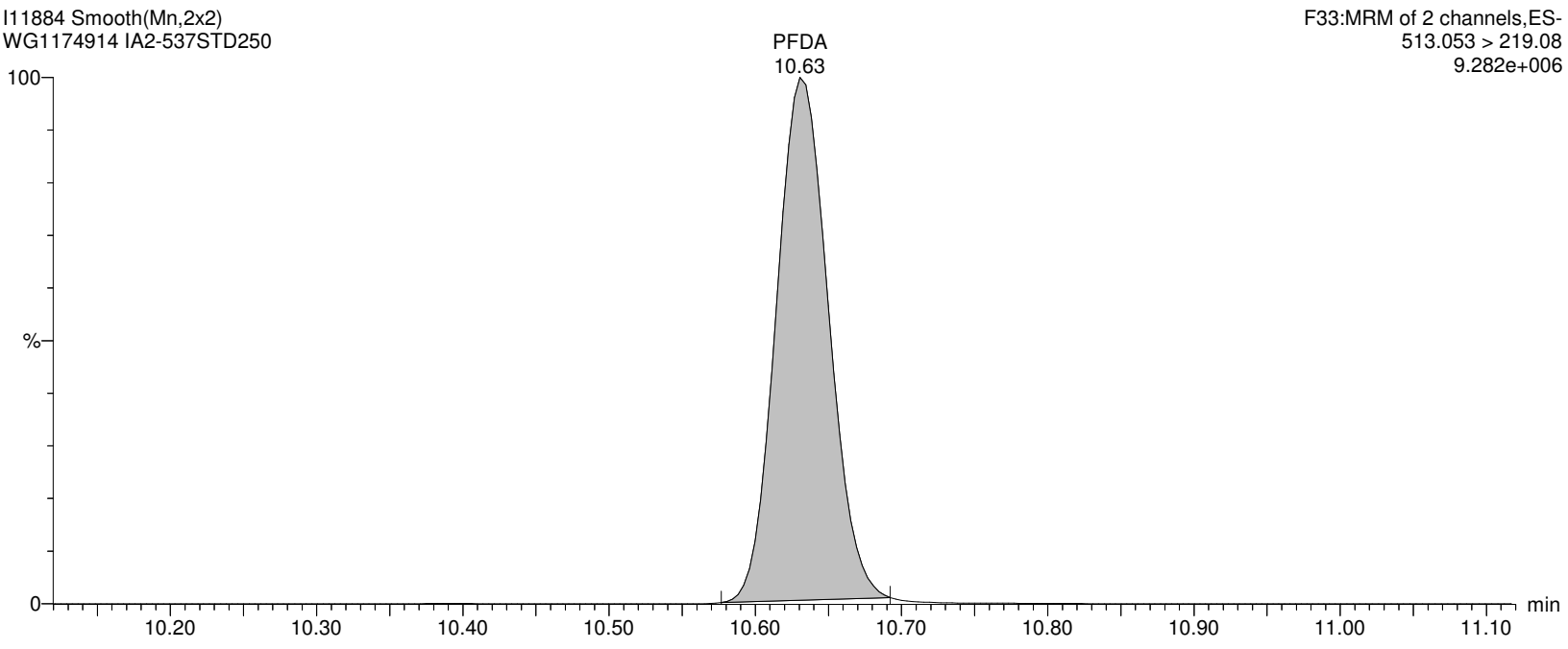

all concentration units in (ng/mL)

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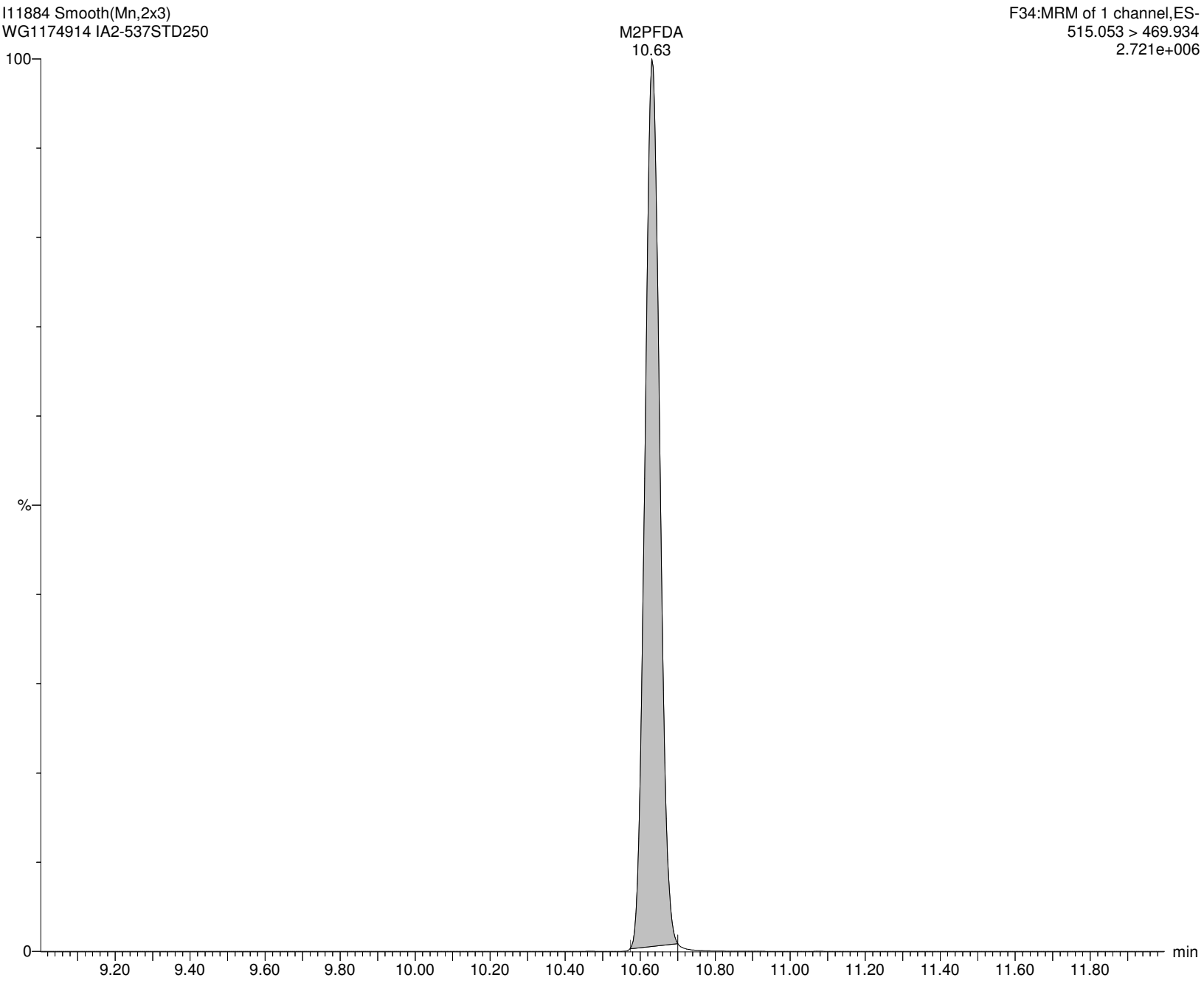

all concentration units in (ng/mL)

Alpha Analytical Inc.
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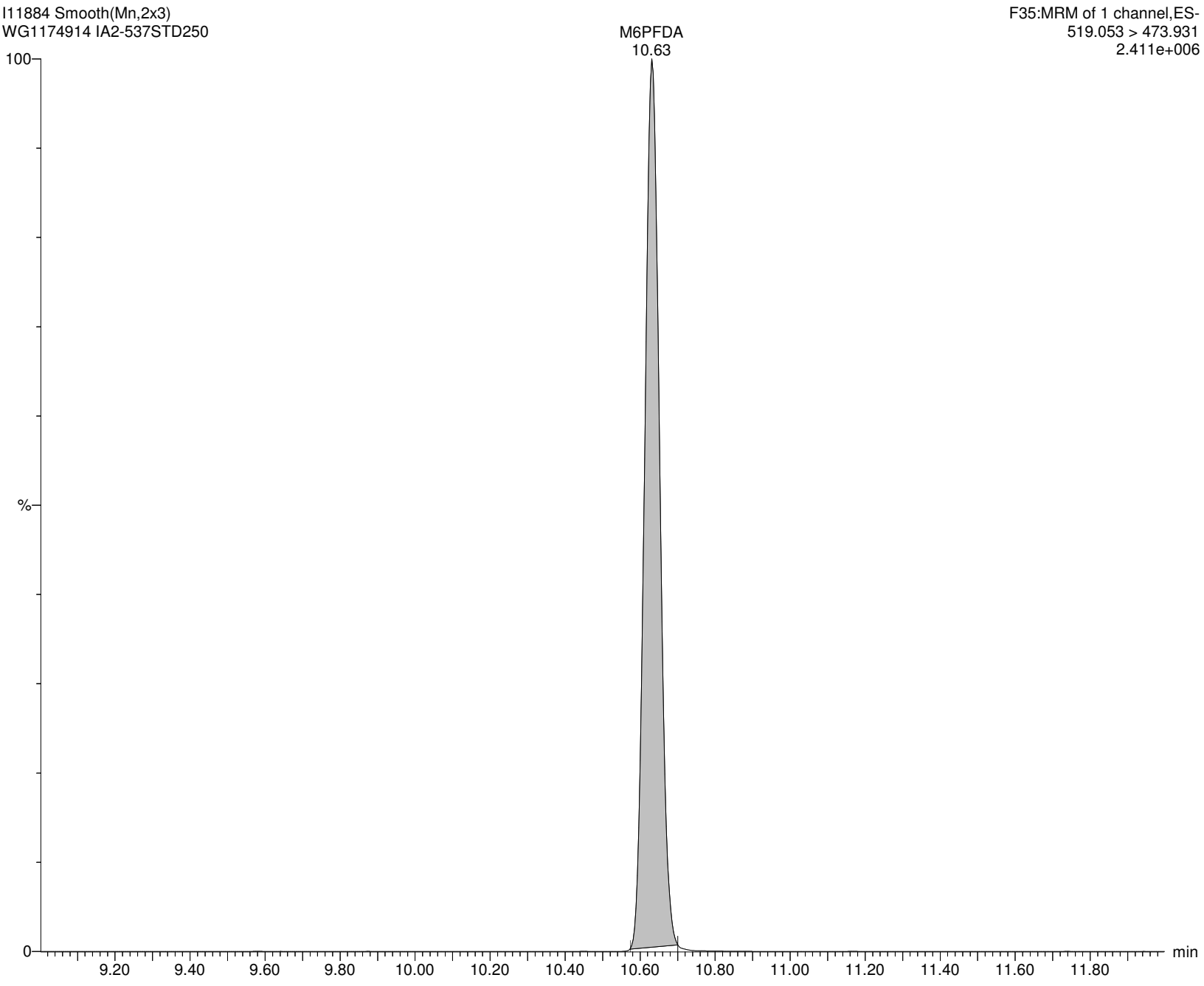

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Nov-2018
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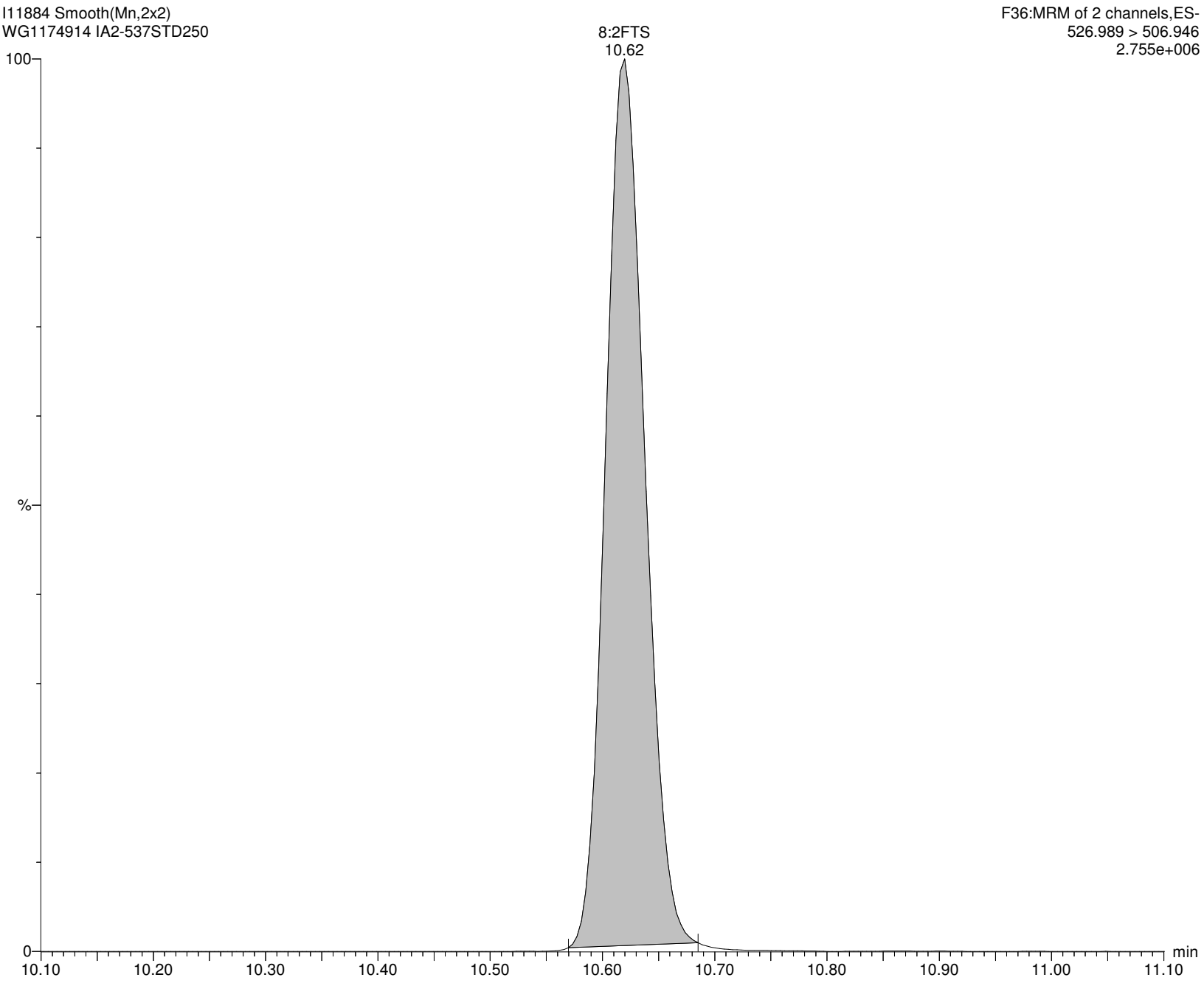

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Nov-2018
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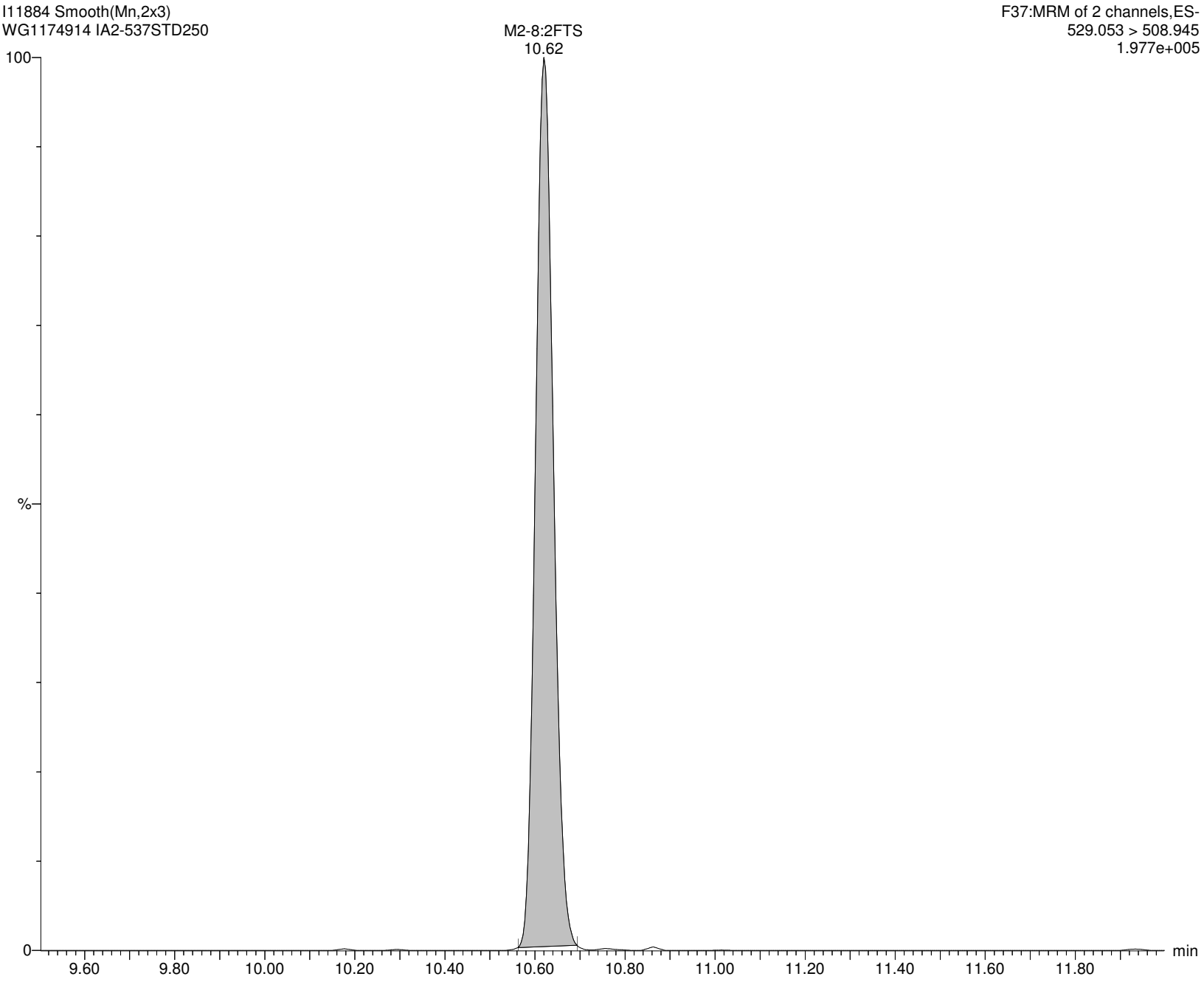

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 18:41:43
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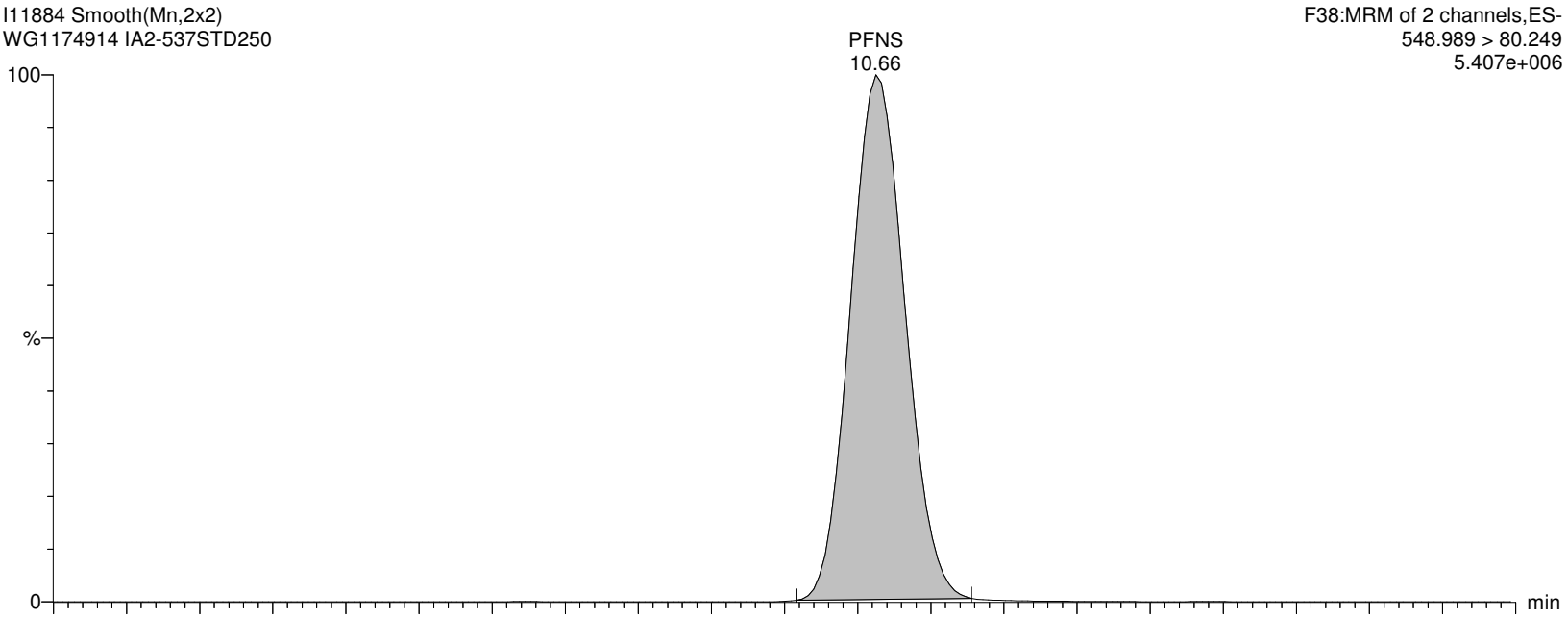

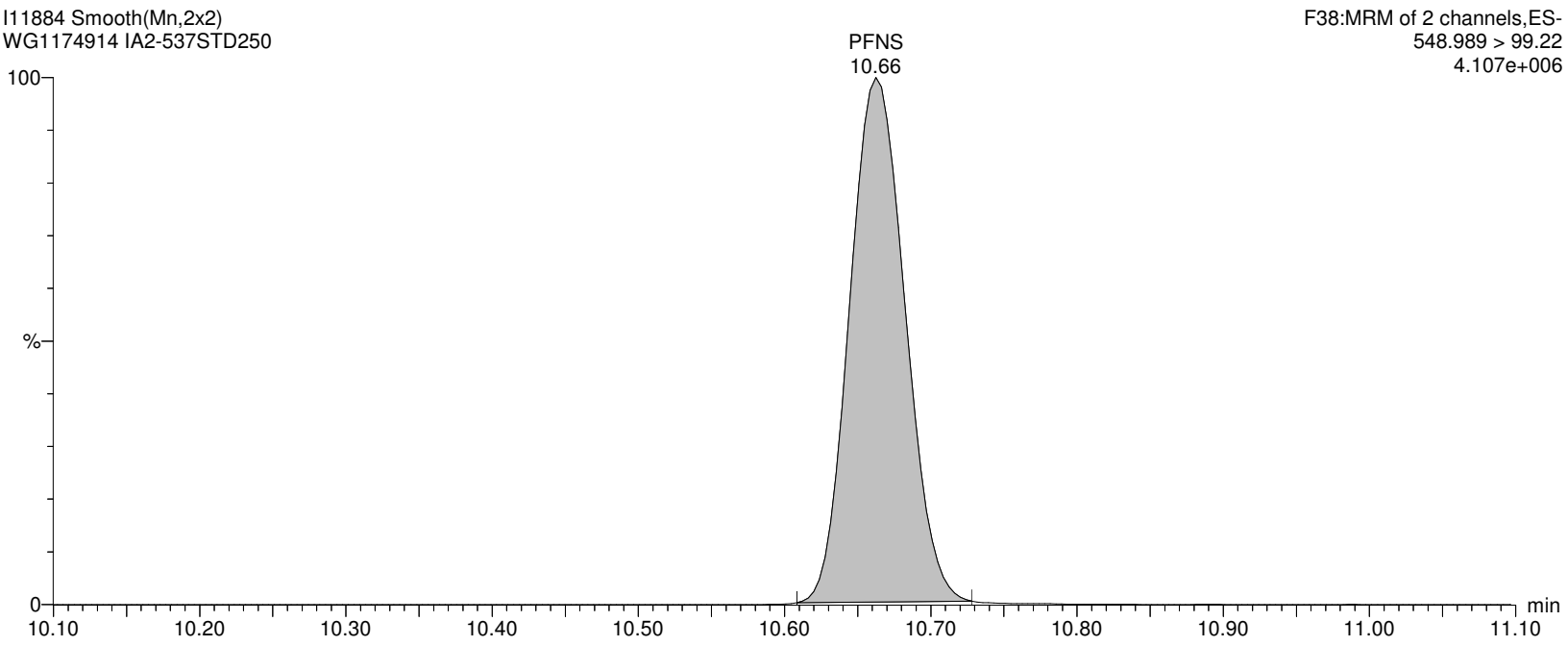

all concentration units in (ng/mL)

Alpha Analytical Inc.
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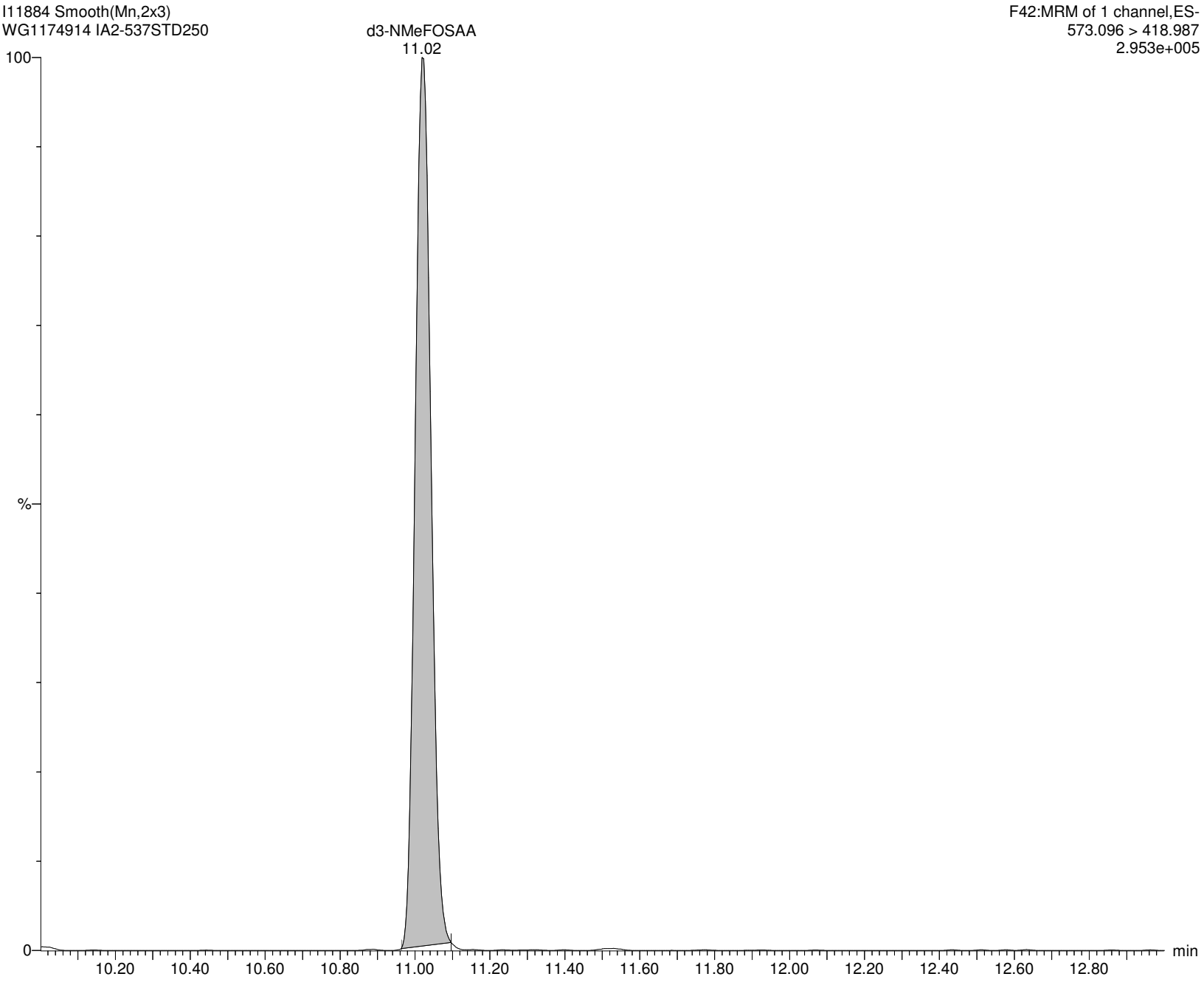

all concentration units in (ng/mL)

Alpha Analytical Inc.
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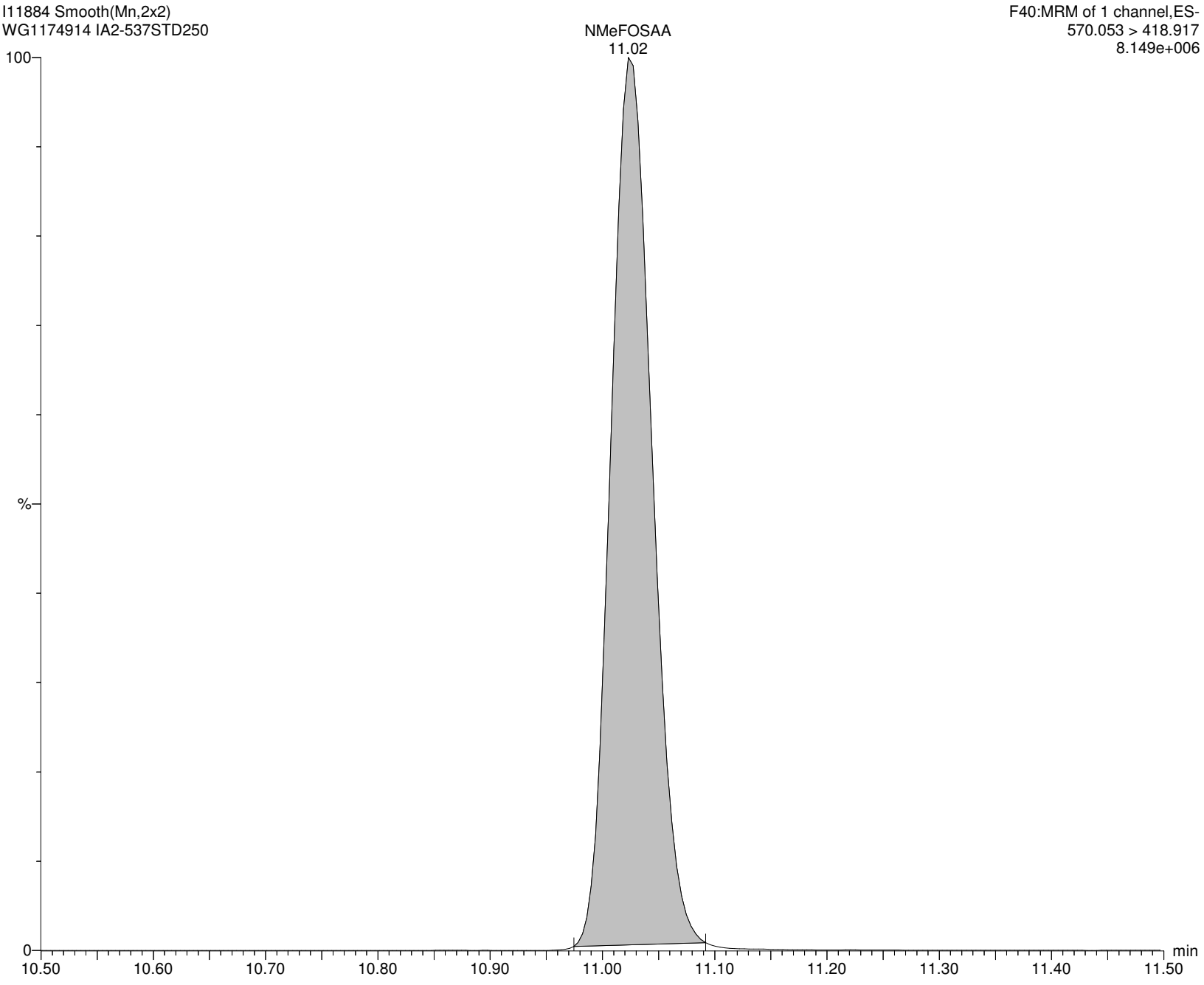

all concentration units in (ng/mL)

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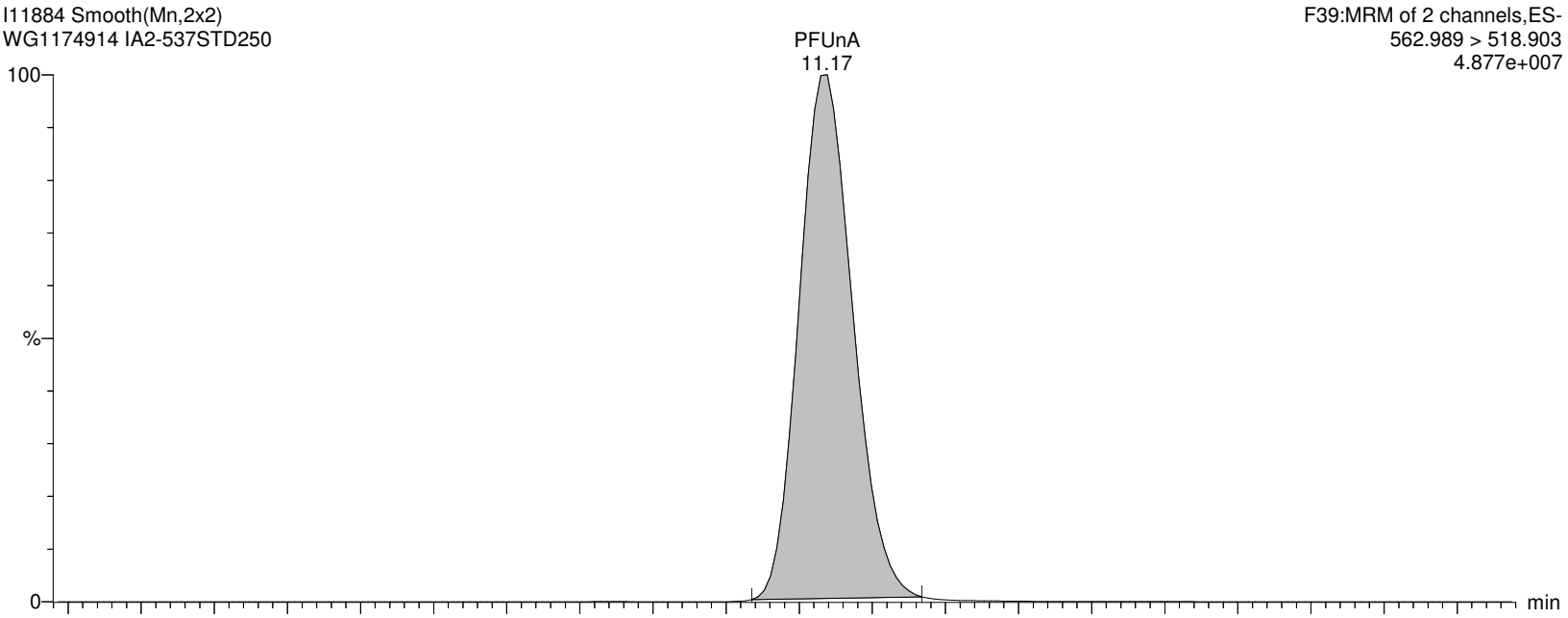

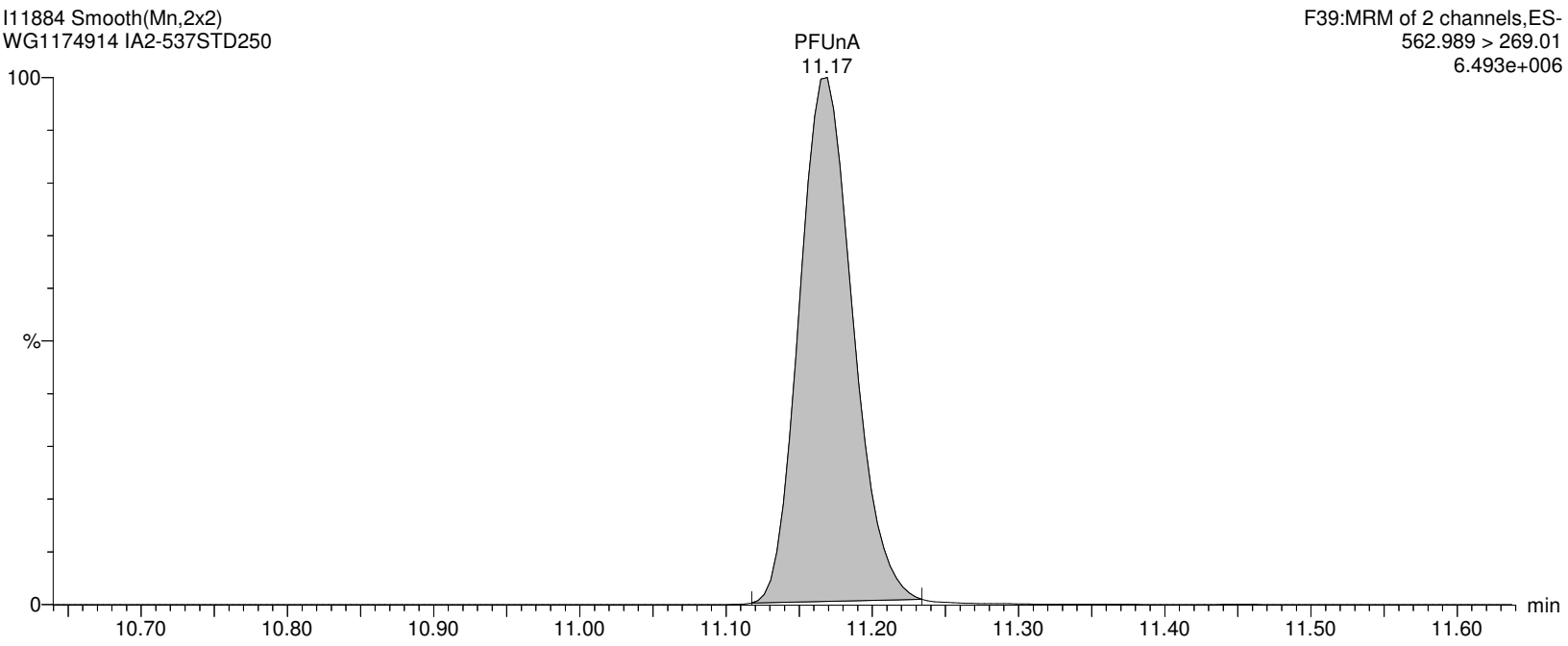

all concentration units in (ng/mL)

Alpha Analytical Inc.
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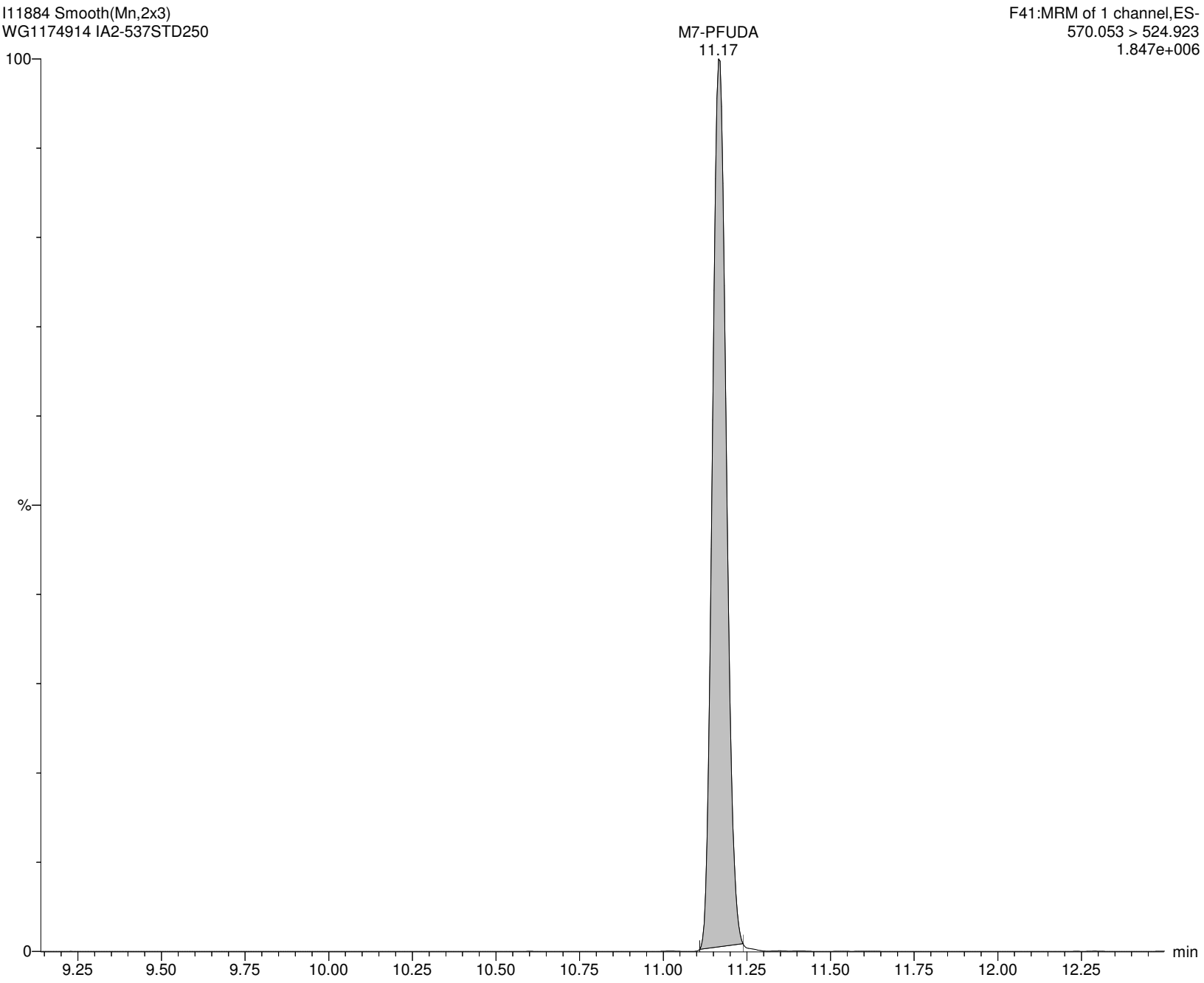

all concentration units in (ng/mL)

Alpha Analytical Inc.
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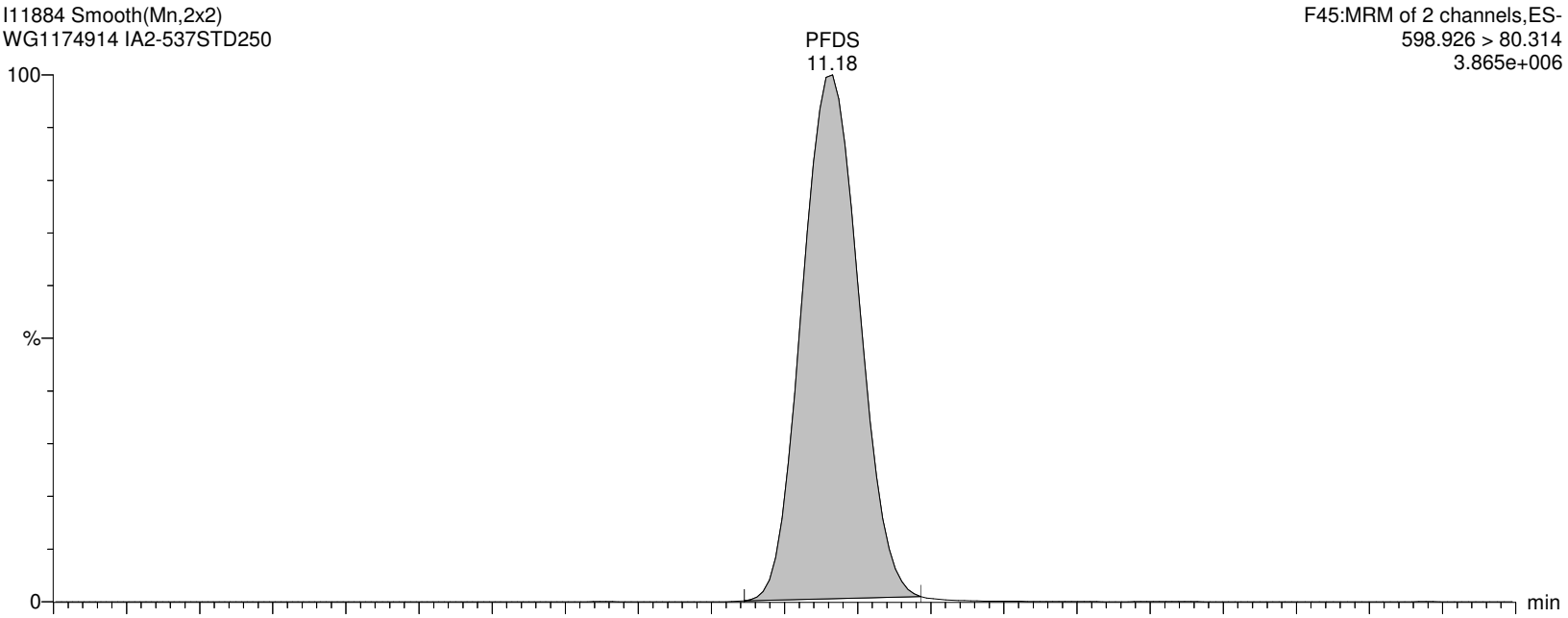

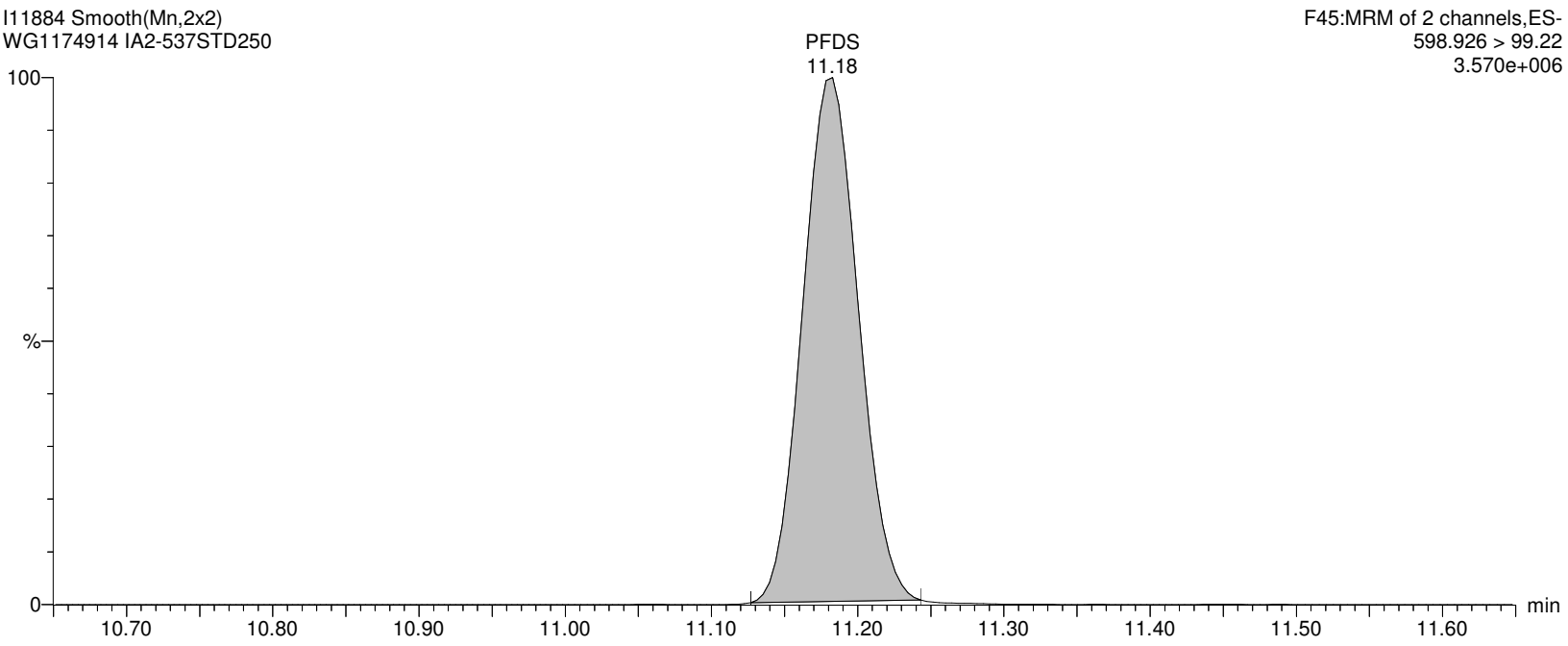

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ID: IA2-537STD250
Date: 01-Nov-2018
Time: 18:41:43
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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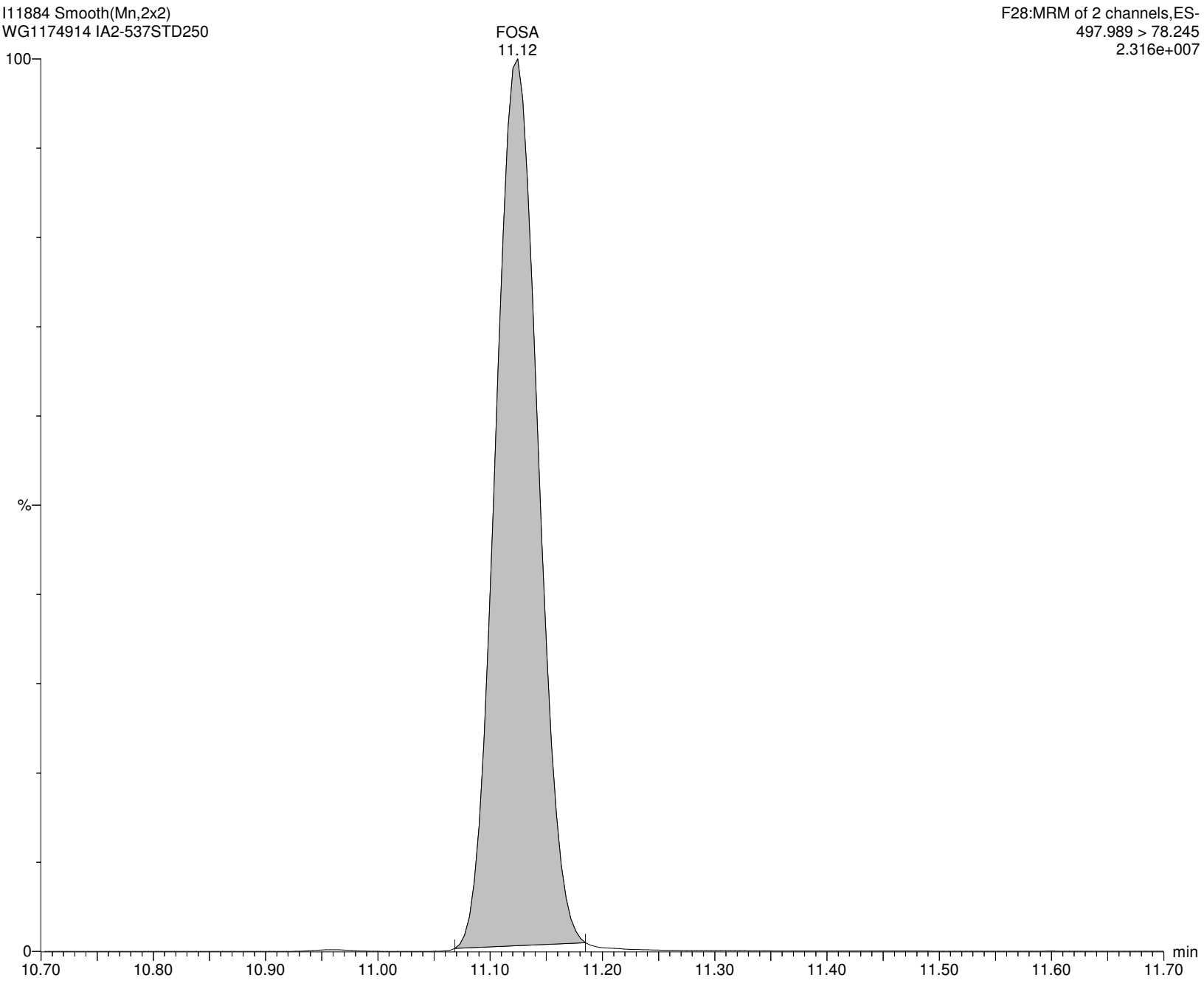

all concentration units in (ng/mL)

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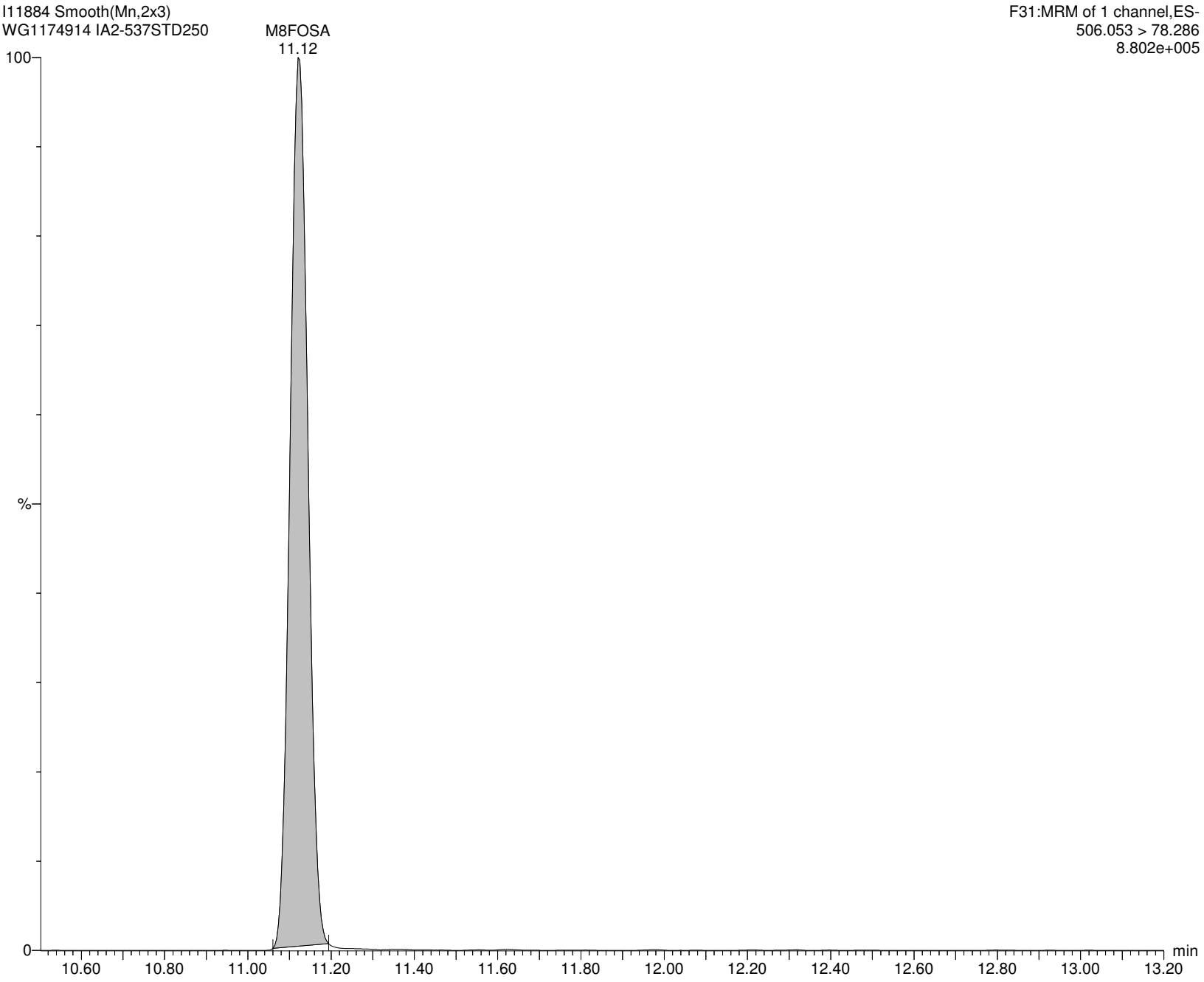

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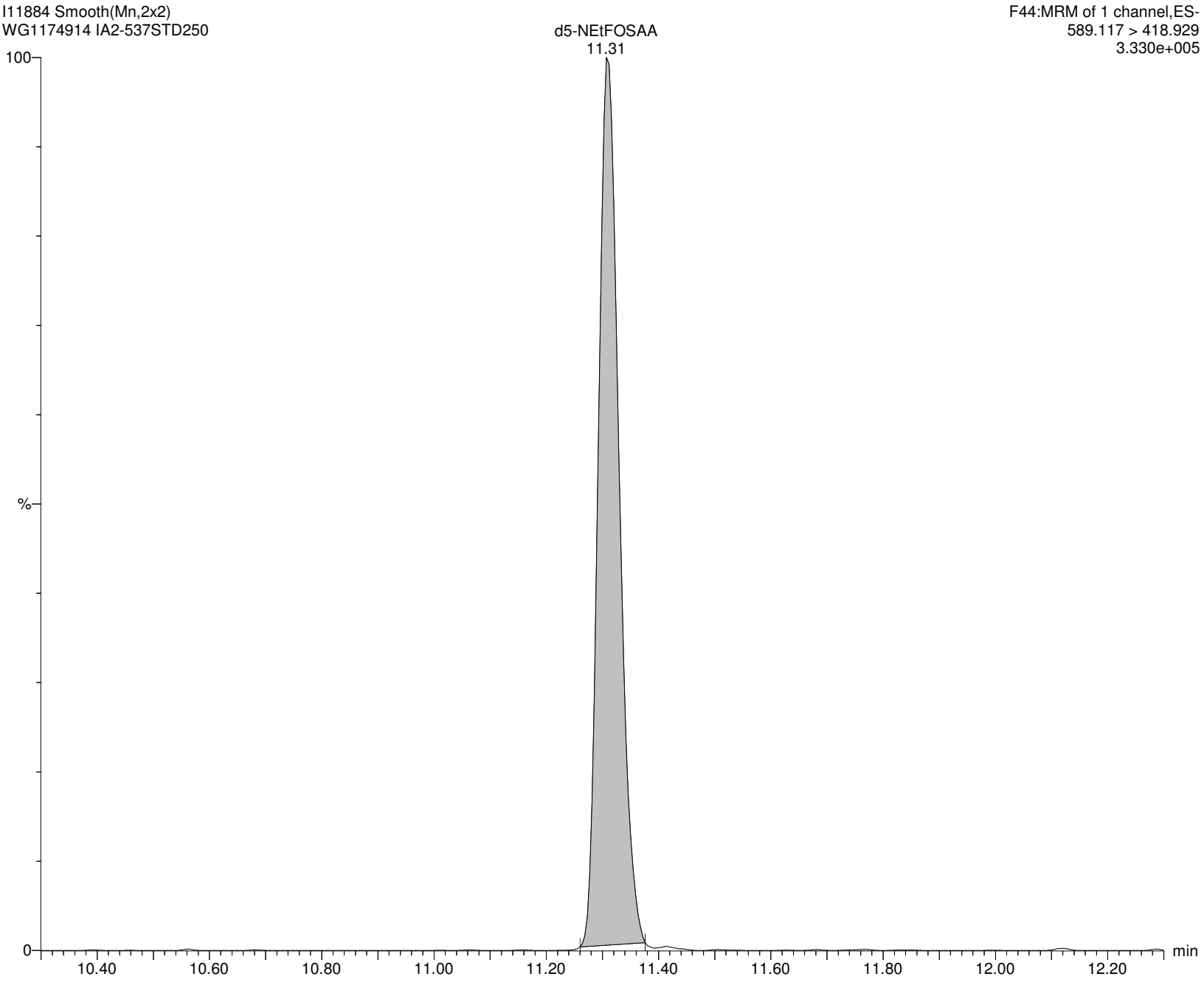

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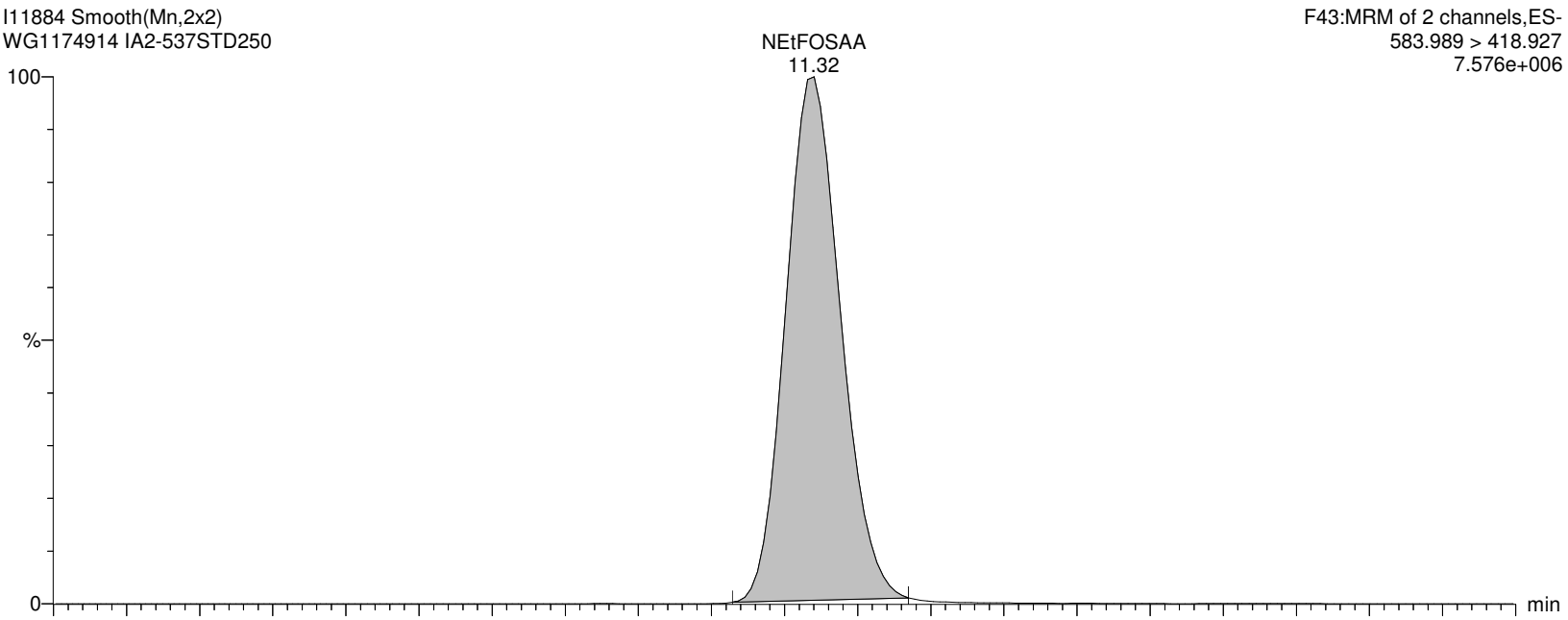

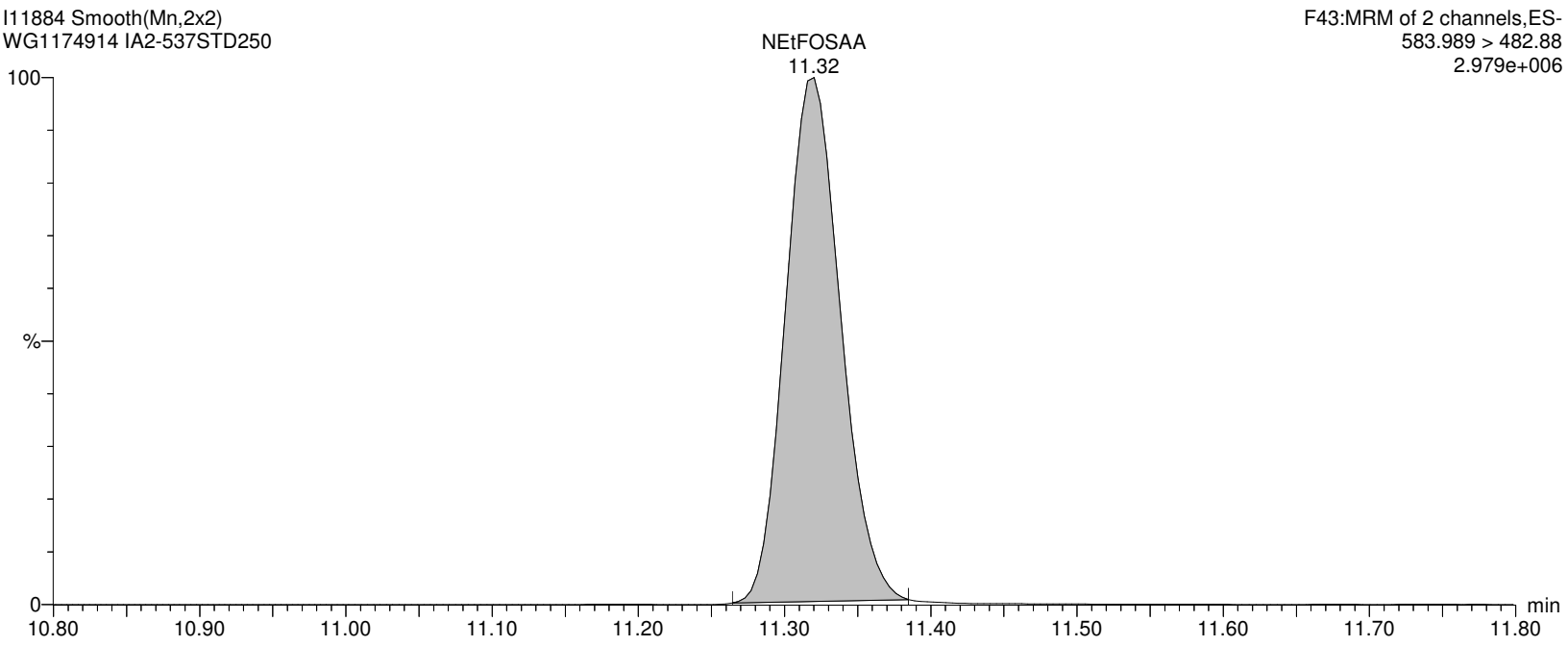

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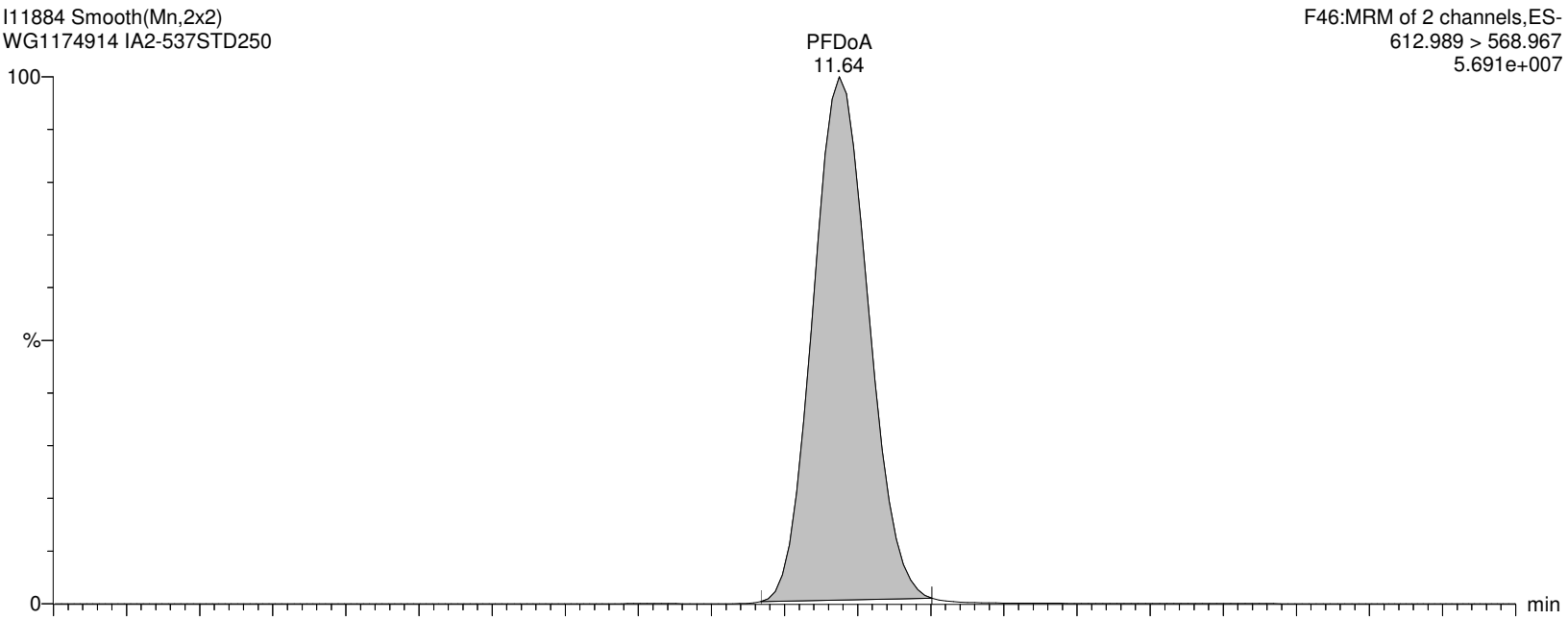

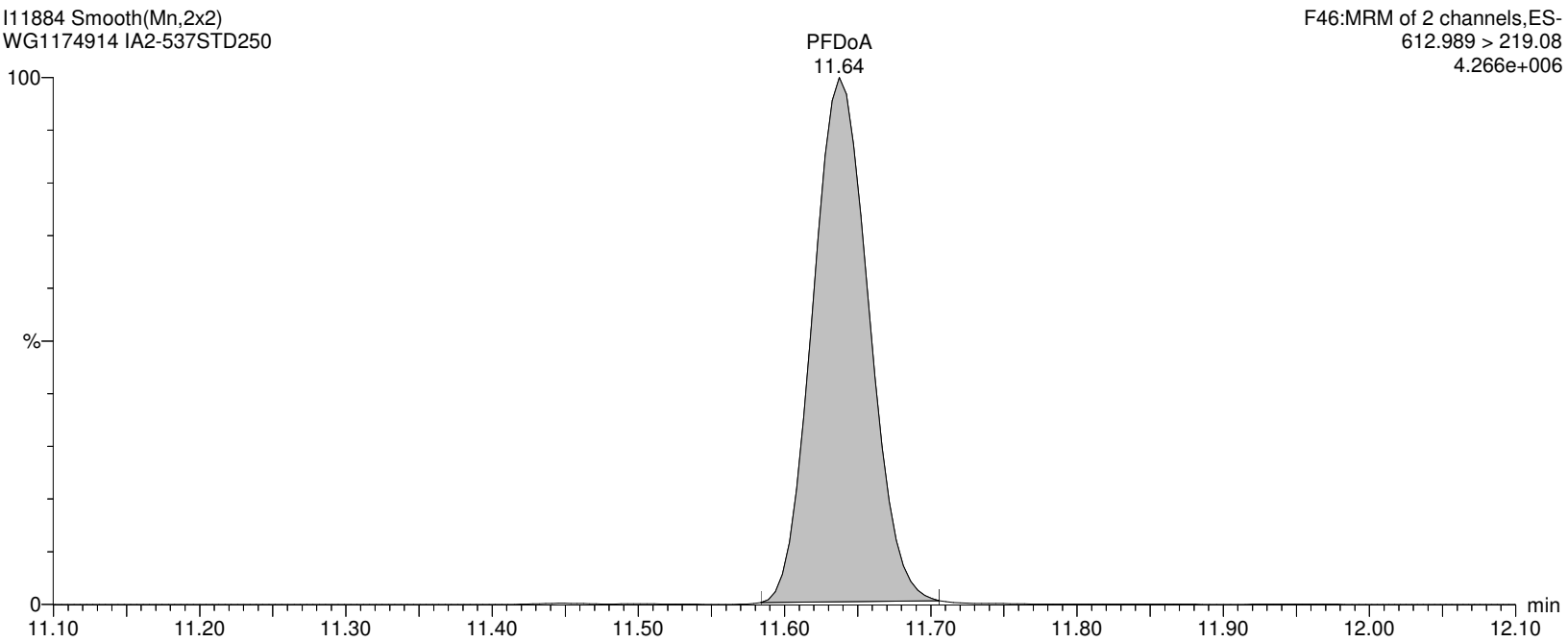

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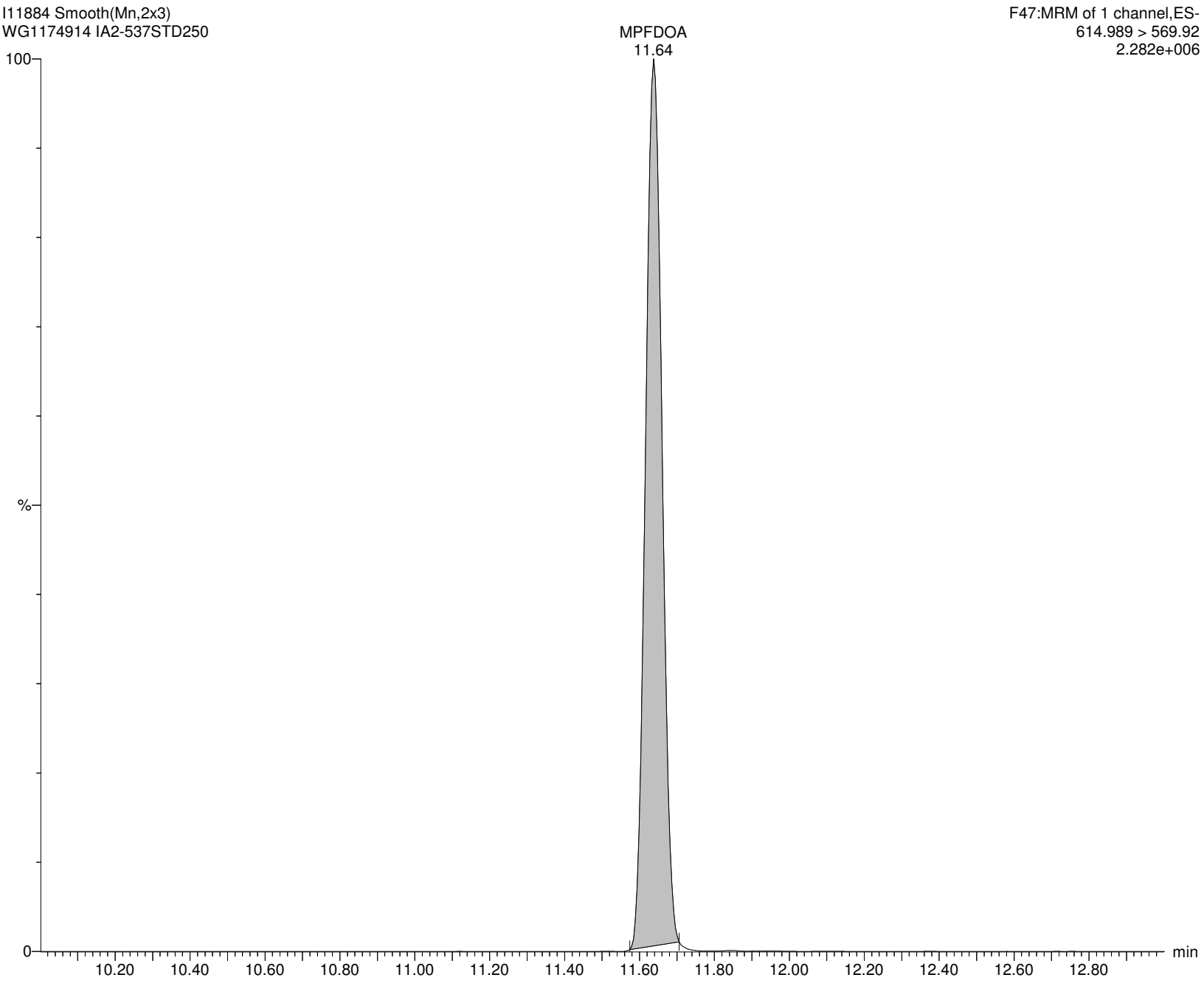

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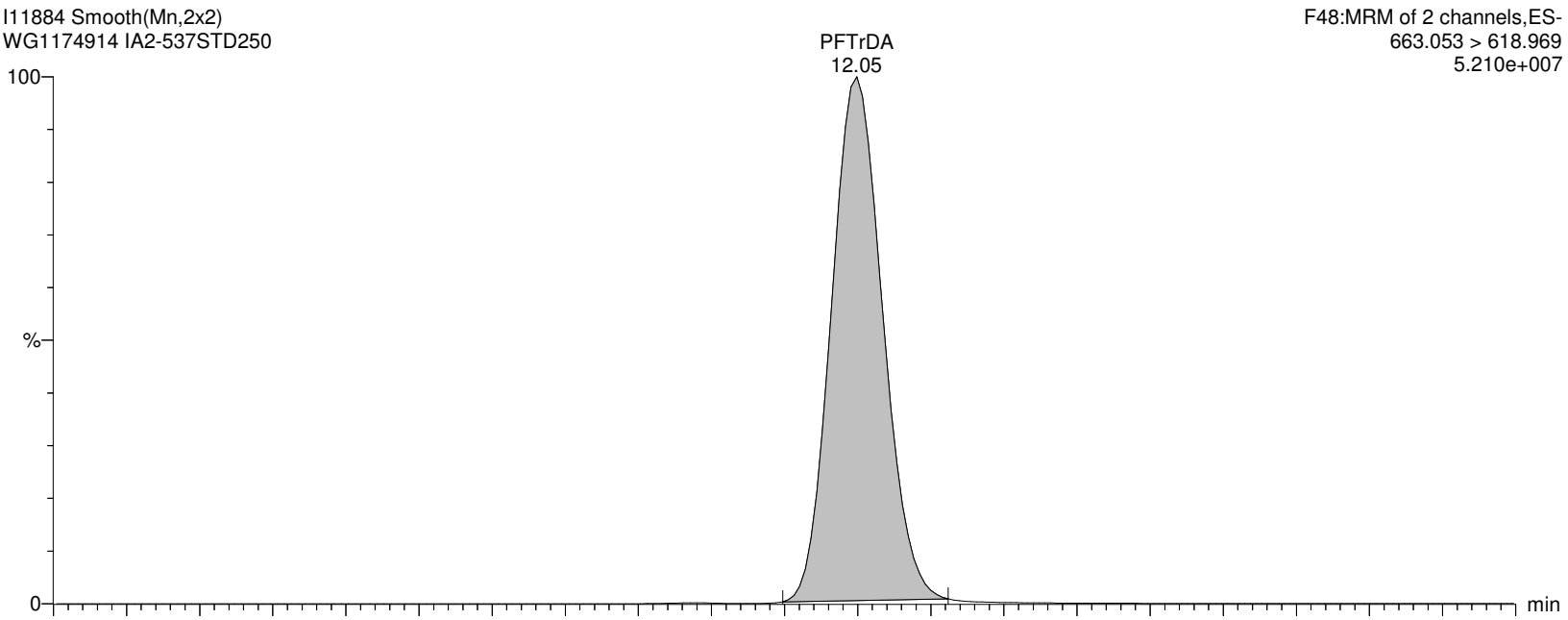

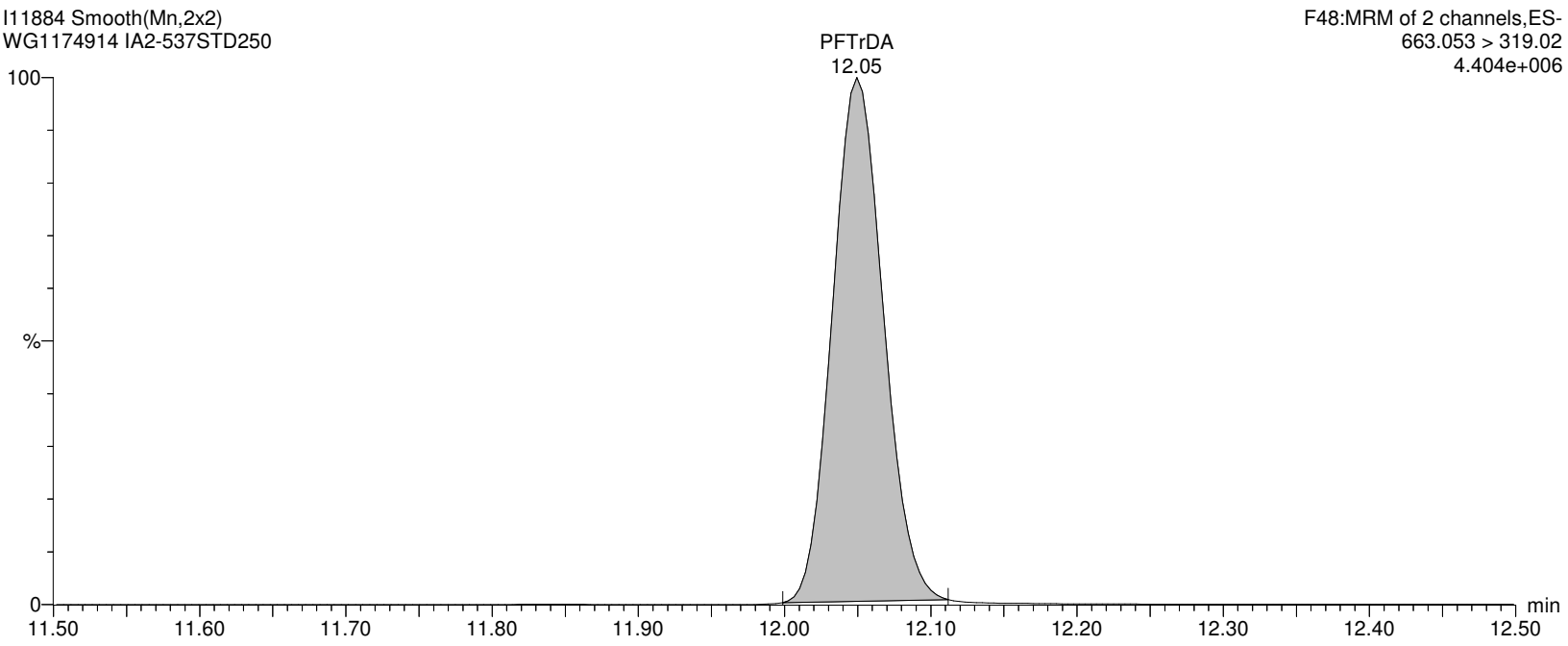

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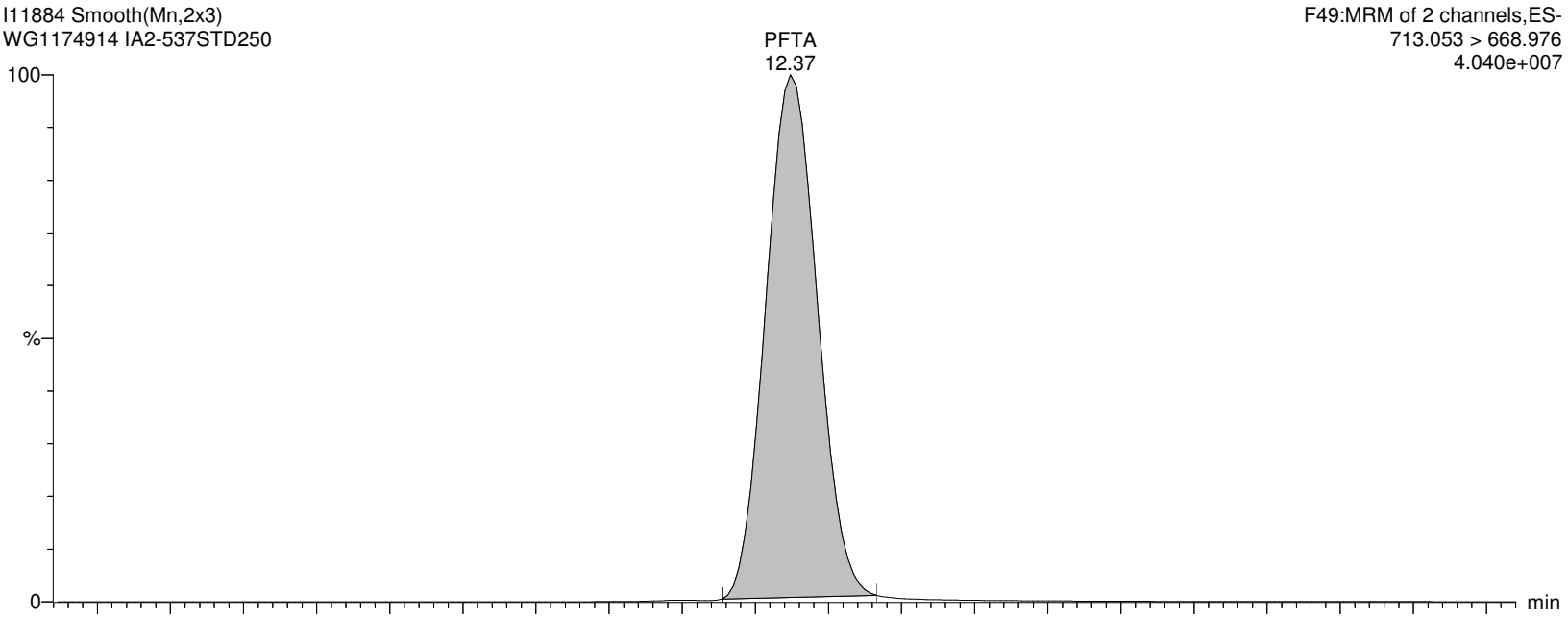

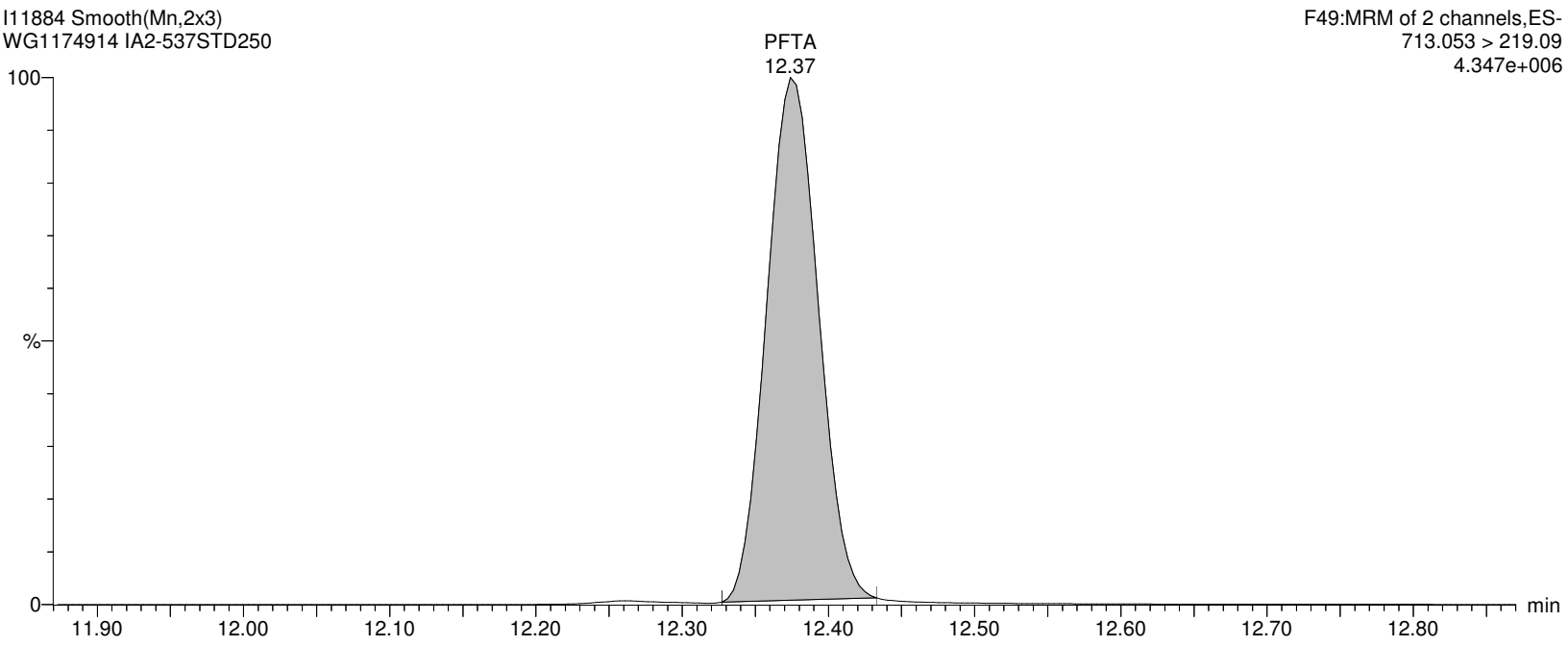

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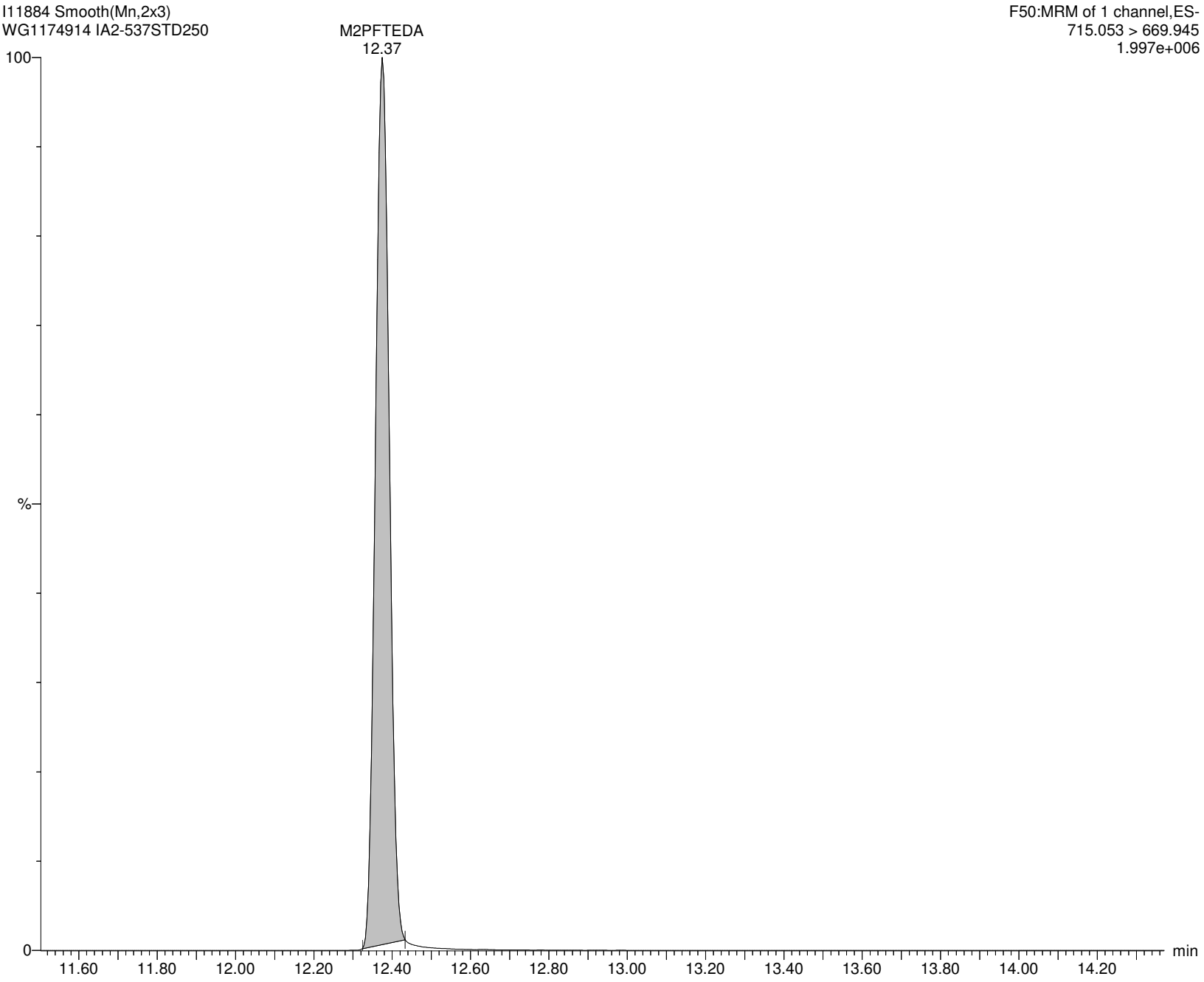

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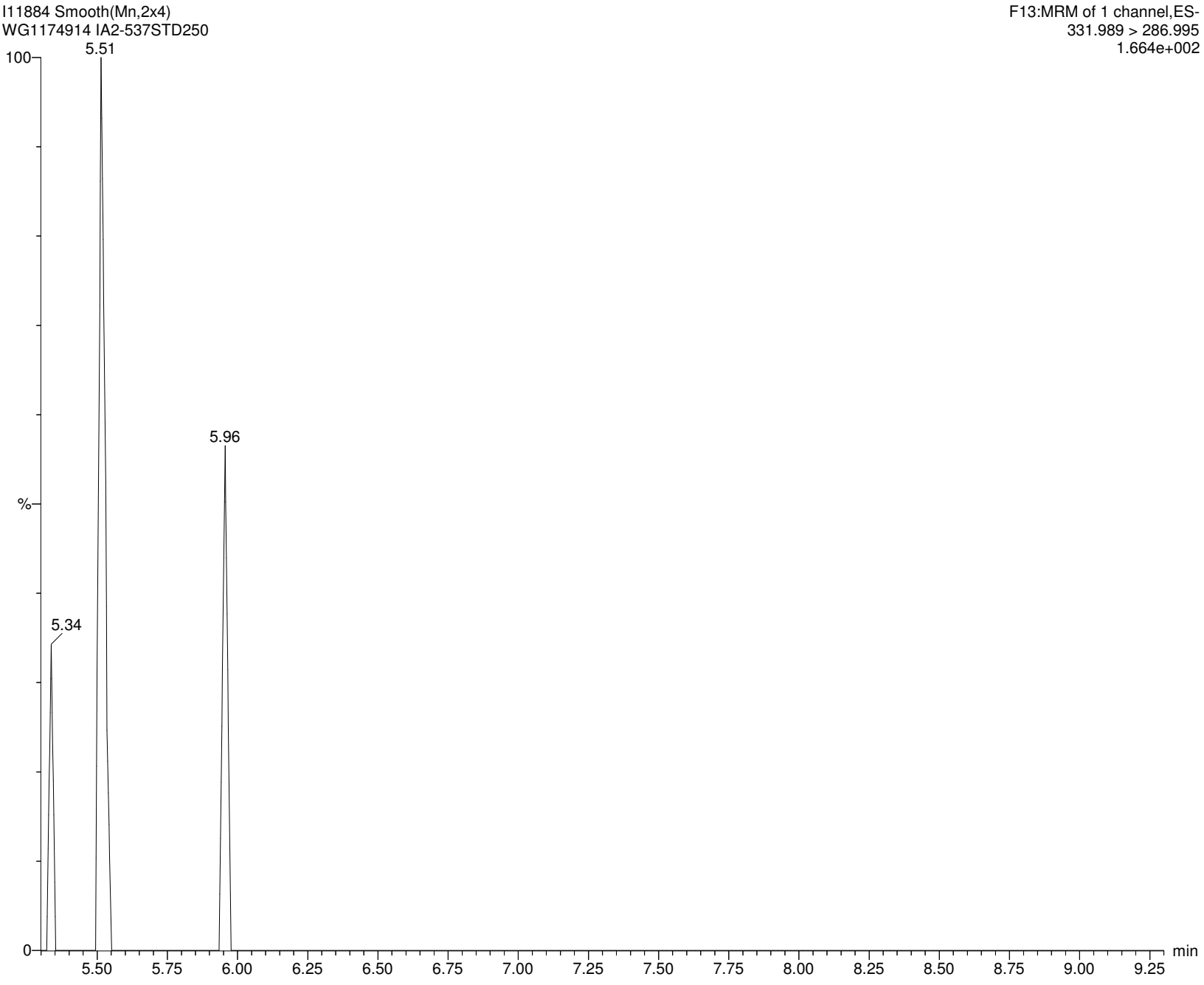

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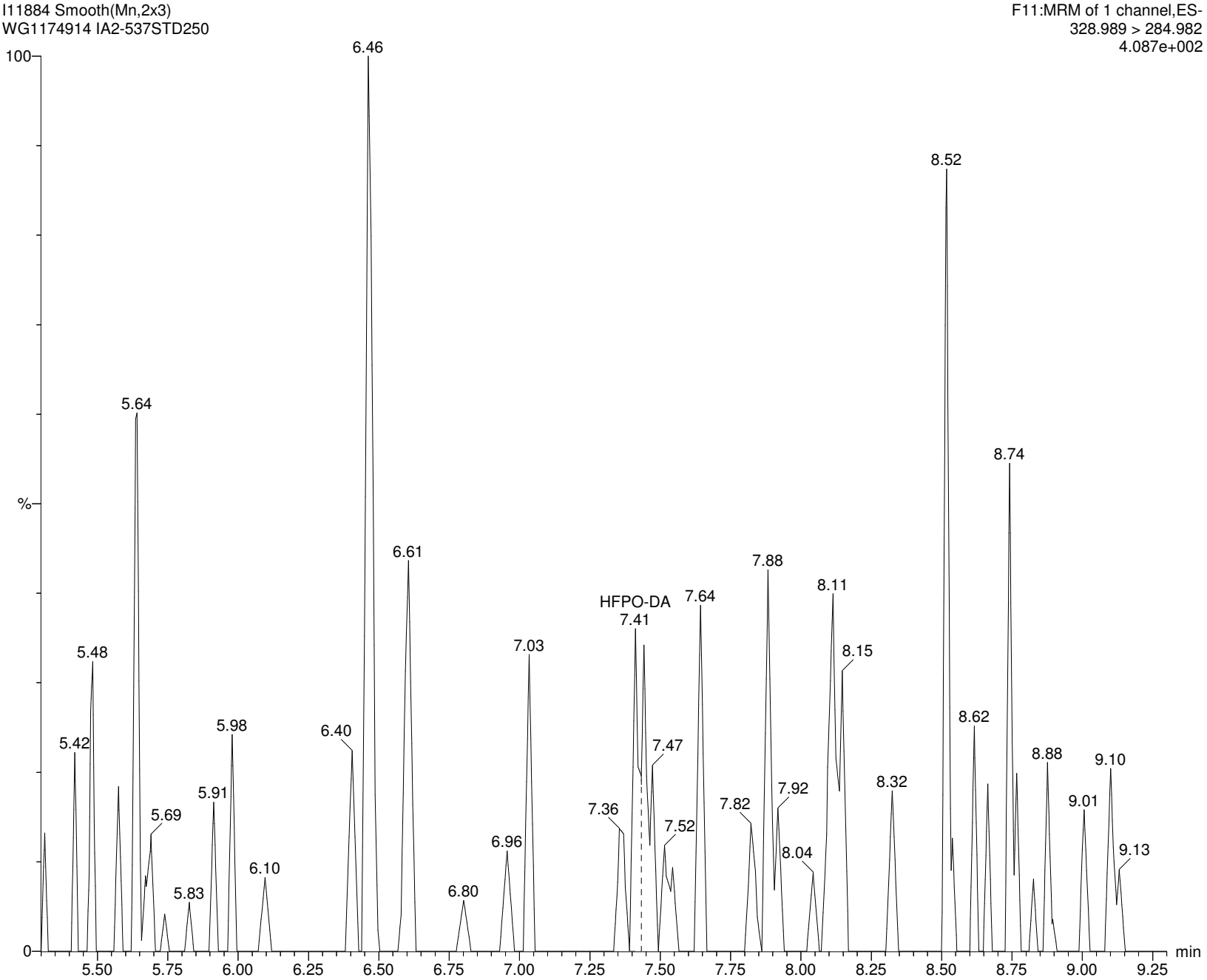

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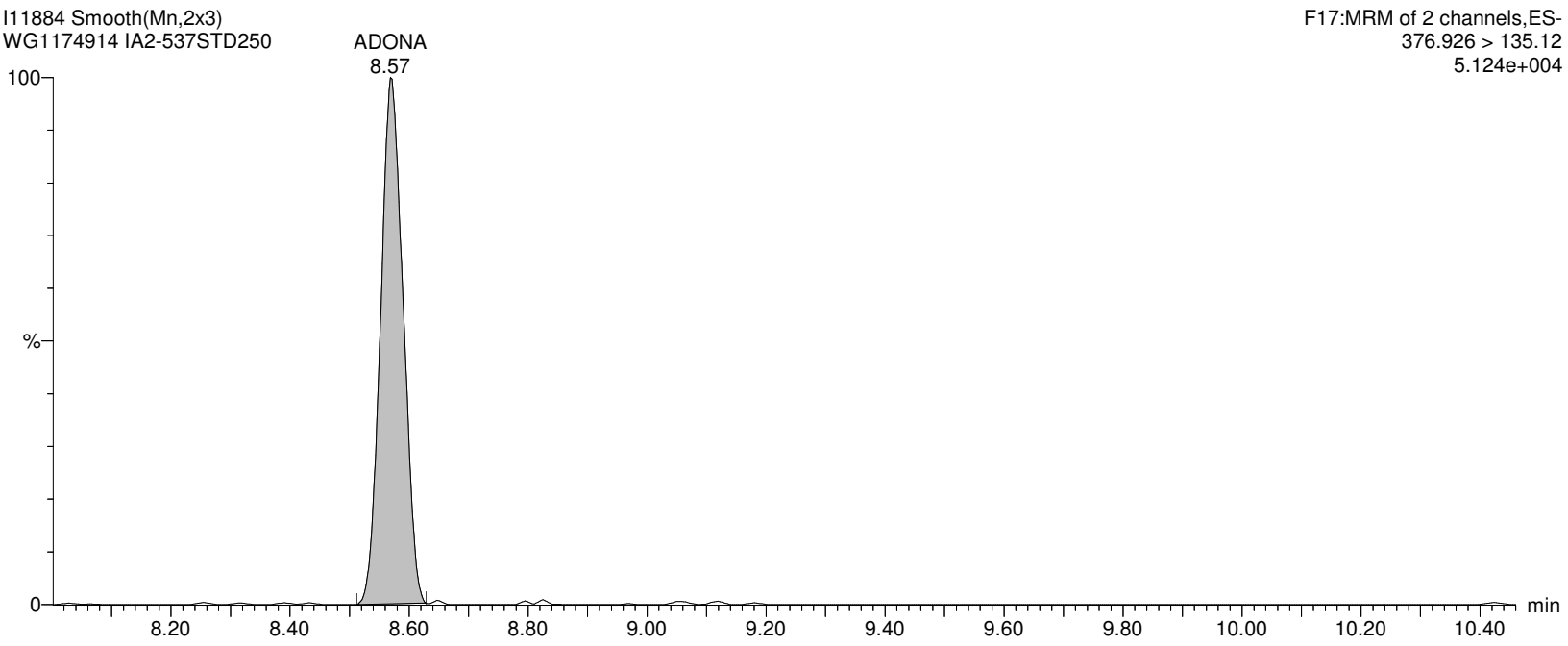

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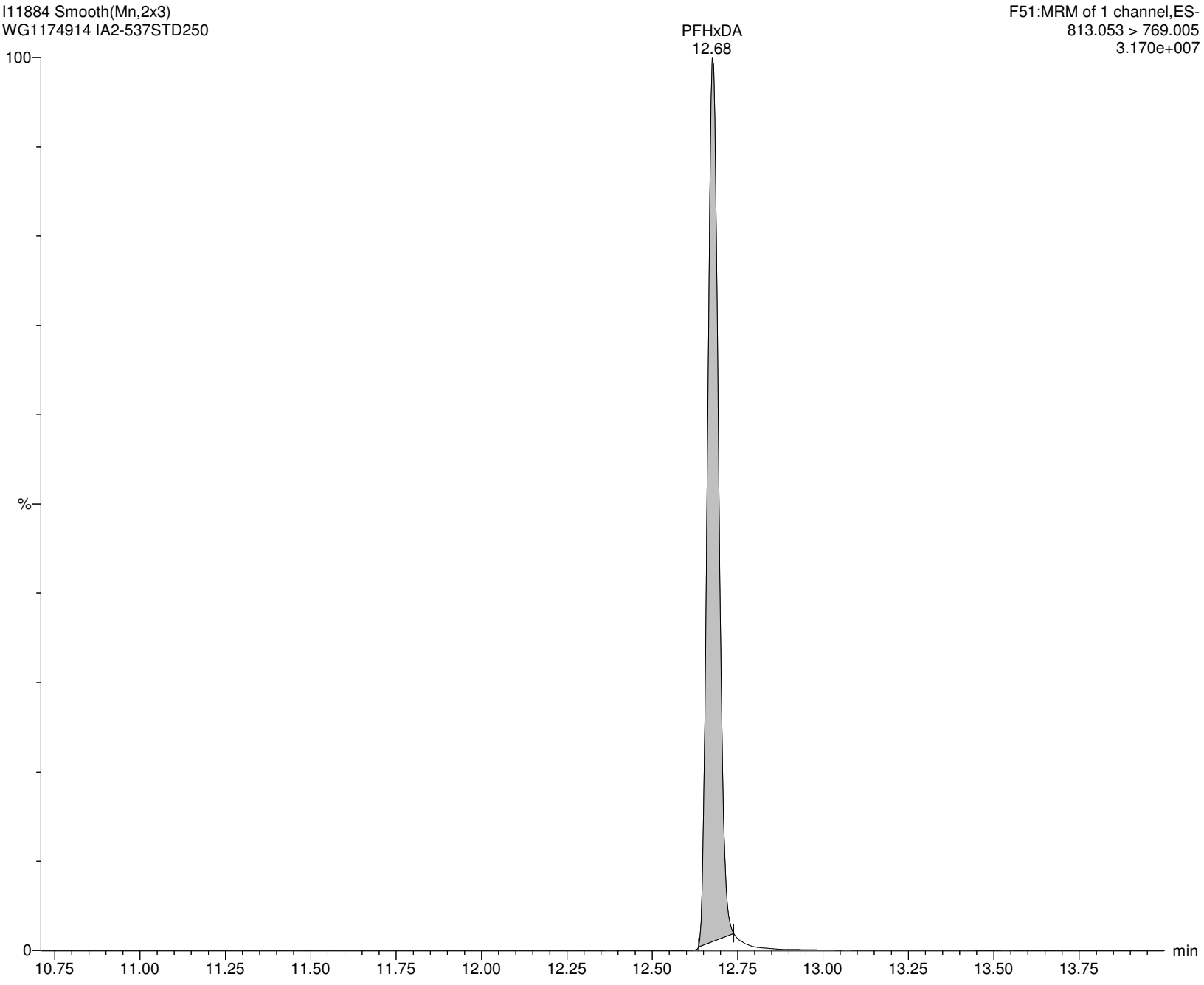

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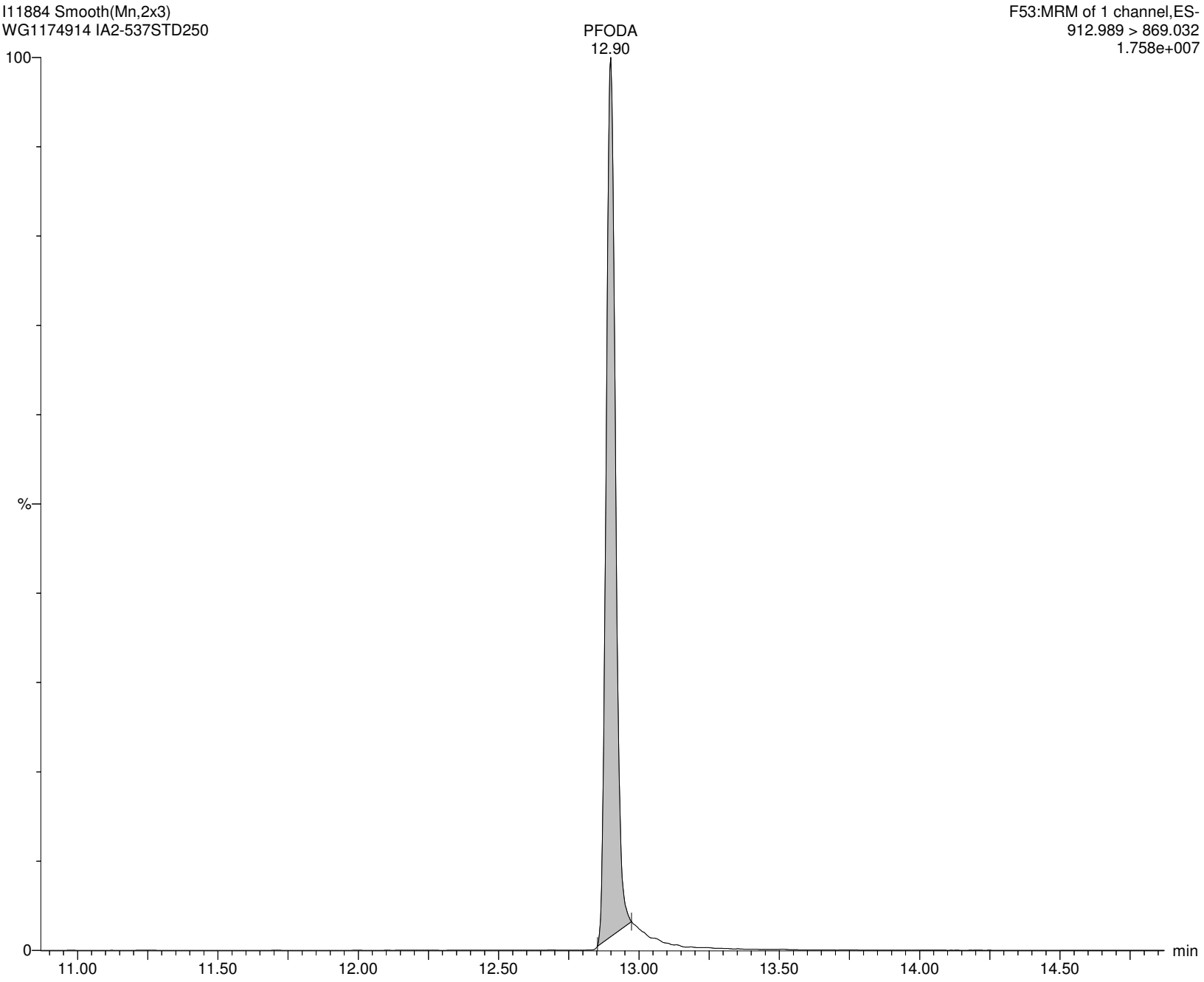

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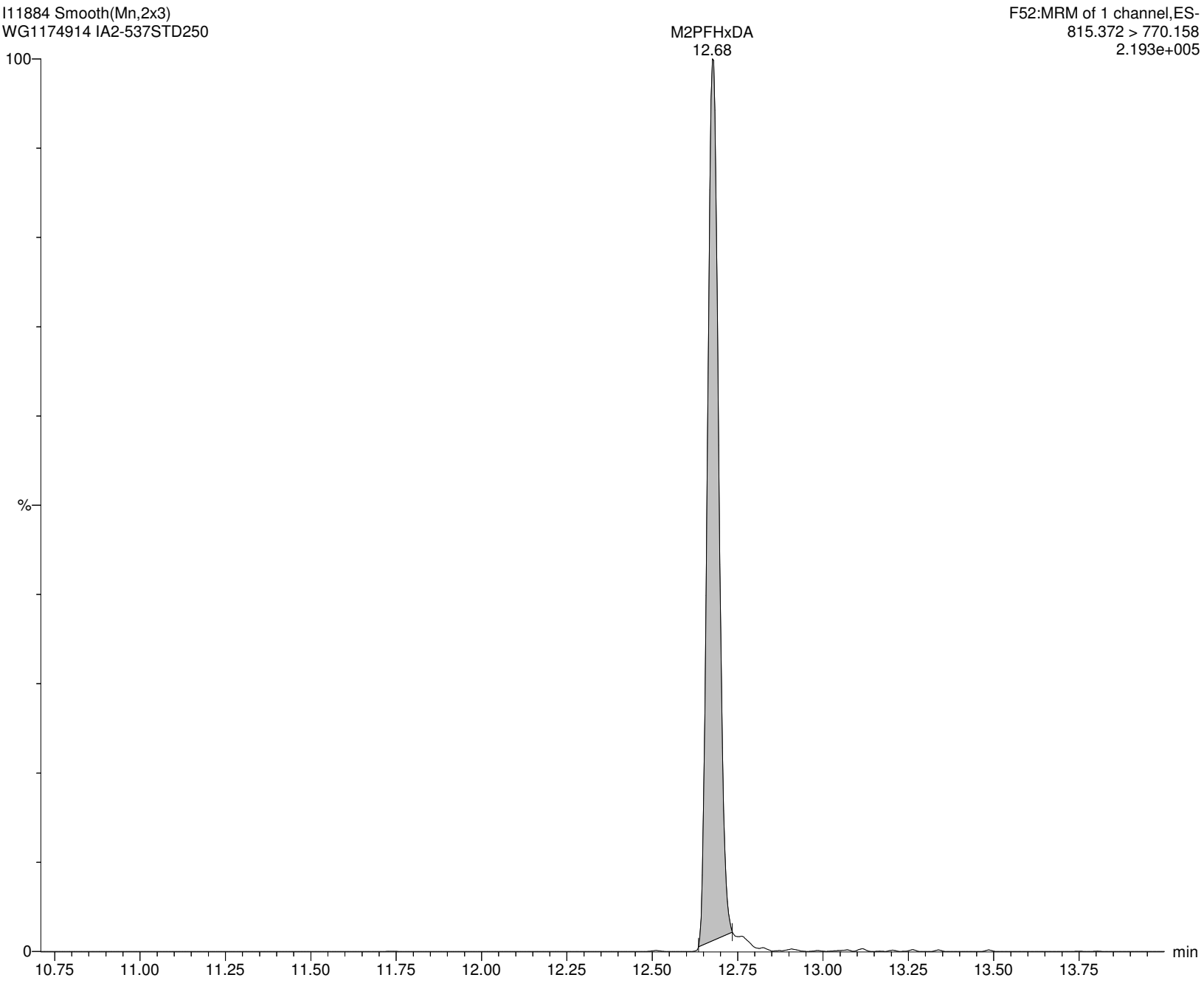

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Calibration: C:\MassLynx\Data\2018\181101_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 20:29:35

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Time: 18:58:17
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MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	3425835		510.966		na	102.2
2	M3PFBA	INT STD	2.13	215.926 > 172.122	79014		8.536		na	85.4
3	MPFBA	INT STD	2.13	216.926 > 172.137	76700		10.219		na	102.2
4	PFPeA	2706-90-3	5.08	262.926 > 219.002	4327276		509.713		na	101.9
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	90079		9.300		na	93.0
6	PFBS	375-73-5	5.77	298.989 > 80.295	611822		452.782		na	102.3
7	M3PFBS	INT STD	5.77	301.989 > 80.254	15242		11.228		na	112.3
8	4:2FTS	757124-72-4	6.94	326.926 > 306.957	418372		ND	1.92	YES	
9	M2-4:2FTS	INT STD	6.94	329.117 > 309.079	29668		35.233		na	352.3
10	PFHxA	307-24-4	7.02	312.989 > 269.028	4865697		509.401	19.12	NO	101.9
11	M5PFHxA	INT STD	7.02	317.989 > 273.045	98425		10.244		na	102.4
12	PFPeS	2706-91-4	7.35	348.926 > 80.251	615048		503.214	2.07	NO	107.1
13	PFHpA	375-85-9	8.31	362.926 > 319.014	5517995		508.091	5.15	NO	101.6
14	M4PFHpA	INT STD	8.31	366.926 > 321.979	110316		9.765		na	97.6
15	br-PFHxS	355-46-4	8.24	398.926 > 80.295	134914		117.358	2.01	NO	138.1
16	L-PFHxS	355-46-4	8.47	398.926 > 80.295	378946		380.418	1.31	NO	102.8
17	PFHxS	355-46-4		398.926 > 80.295	513860		497.776		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	7064		9.369		na	93.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	5230587		505.675	8.91	NO	101.1
21	M2PFOA	INT STD	9.26	415.032 > 369.968	133364		7.063		na	70.6
22	PFOA	335-67-1		412.989 > 368.9	5230587		505.675		na	
23	M8PFOA	INT STD	9.26	420.989 > 375.979	106022		9.858		na	98.6
24	6:2FTS	27619-97-2	9.22	426.989 > 406.921	314636		ND	1.02	NO	
25	M2-6:2FTS	INT STD	9.22	428.989 > 408.917	22600		32.334		na	323.3
26	PFHpS	375-92-8	9.36	448.926 > 80.257	297704		466.447	0.92	YES	98.2
27	PFNA	375-95-1	10.02	462.989 > 418.931	4385475		506.192	4.25	NO	101.2
28	M9PFNA	INT STD	10.01	472.053 > 426.947	103730		9.670		na	96.7
29	br-PFOS	1763-23-1	9.88	498.989 > 80.294	191477		126.734	3.89	YES	126.7
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	393415		365.399	1.67	YES	100.1
31	PFOS	1763-23-1		498.989 > 80.294	584891		492.133		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10890		6.722		na	67.2
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10308		10.151		na	101.5
34	PFDA	335-76-2	10.63	513.053 > 468.906	3726875		515.016	6.07	NO	103.0
35	M2PFDA	INT STD	10.63	515.053 > 469.934	92395		6.215		na	62.2
36	M6PFDA	INT STD	10.63	519.053 > 473.931	81579		9.779		na	97.8
37	8:2FTS	39108-34-4	10.62	526.989 > 506.946	174204		ND		na	
38	M2-8:2FTS	INT STD	10.62	529.053 > 508.945	11419		27.822		na	278.2
39	PFNS	68259-12-1	10.66	548.989 > 80.249	362365		473.553	1.31	NO	98.7

all concentration units in (ng/mL)

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ID: IA2-537STD500
Name: I11885
Date: 01-Nov-2018
Time: 18:58:17
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.02	573.096 > 418.987	12694		14.114		na	141.1
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	632726		495.547		na	99.1
42	PFUnA	2058-94-8	11.17	562.989 > 518.903	3162767		510.840	7.39	NO	102.2
43	M7-PFUDA	INT STD	11.17	570.053 > 524.923	62314		8.924		na	89.2
44	PFDS	335-77-3	11.18	598.926 > 80.314	264286		481.640	1.11	NO	99.8
45	FOSA	754-91-6	11.12	497.989 > 78.245	1668692		503.708		na	100.7
46	M8FOSA	INT STD	11.12	506.053 > 78.286	33868		11.379		na	113.8
47	d5-NEtFOSAA	INT STD	11.31	589.117 > 418.929	12054		13.894		na	138.9
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	627707		509.333	2.66	YES	101.9
49	PFDoA	307-55-1	11.64	612.989 > 568.967	4031958		509.101	12.77	NO	101.8
50	MPFDOA	INT STD	11.64	614.989 > 569.92	84931		10.825		na	108.3
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	3360521		504.588	11.74	NO	100.9
52	PFTA	376-06-7	12.37	713.053 > 668.976	2610246		487.924	8.87	NO	97.6
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	63714		10.964		na	109.6
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.49	376.926 > 251.005	6620006		471.918	1687.09	NO	99.8
57	PFHxDA		12.68	813.053 > 769.005	1872984		500.590		na	100.1
58	PFODA		12.90	912.989 > 869.032	1059308		502.051		na	100.4
59	M2PFHxDA		12.68	815.372 > 770.158	7425		12.283		na	122.8

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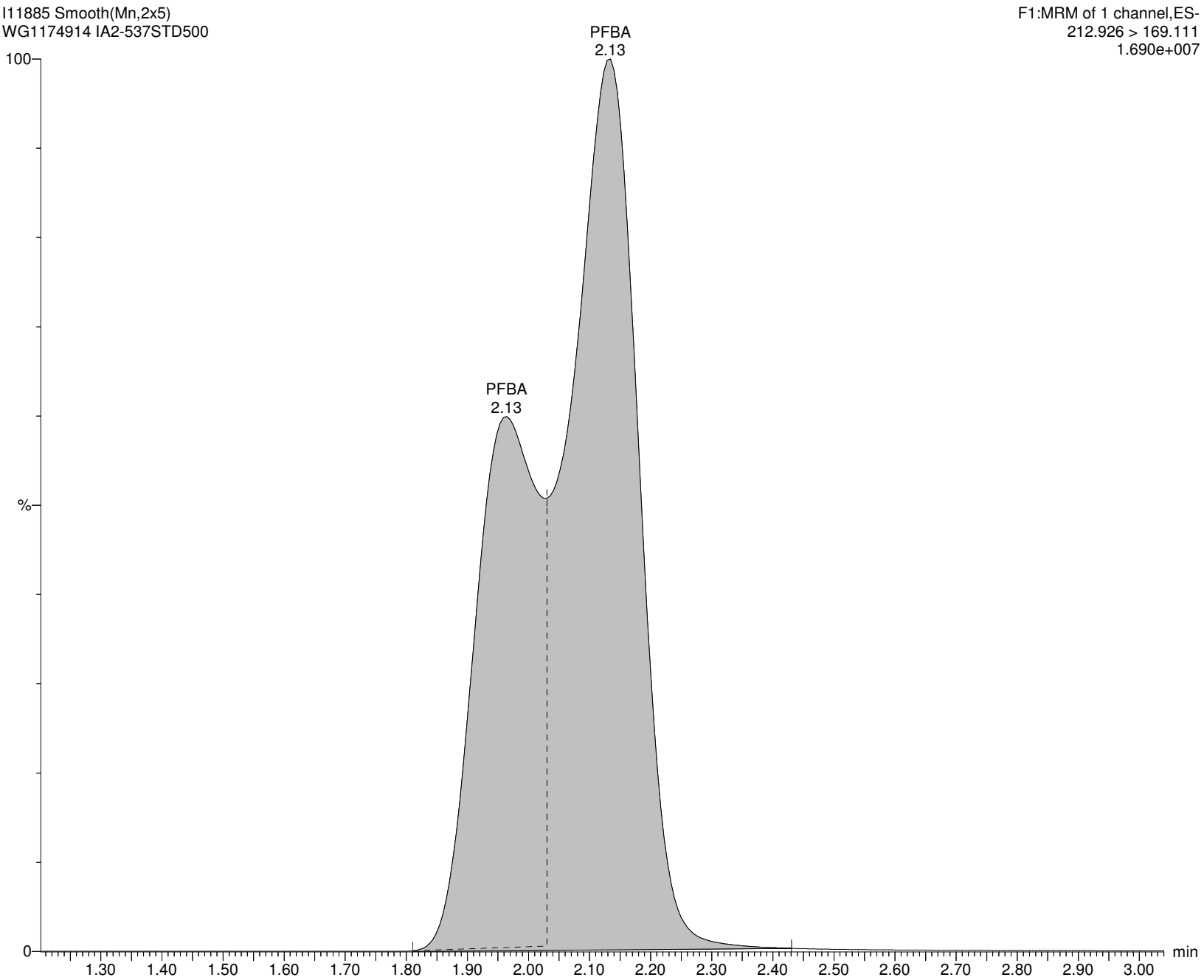

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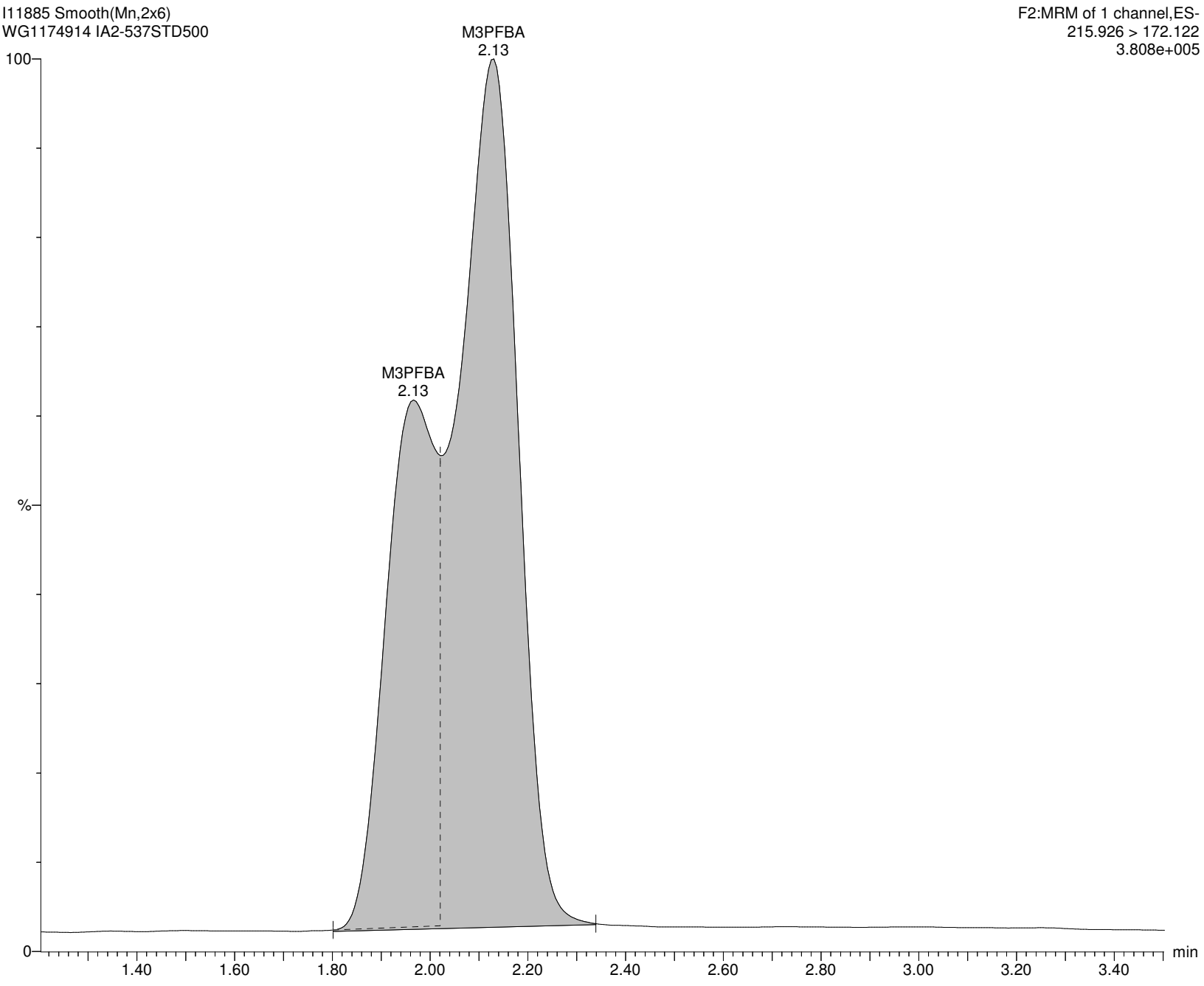

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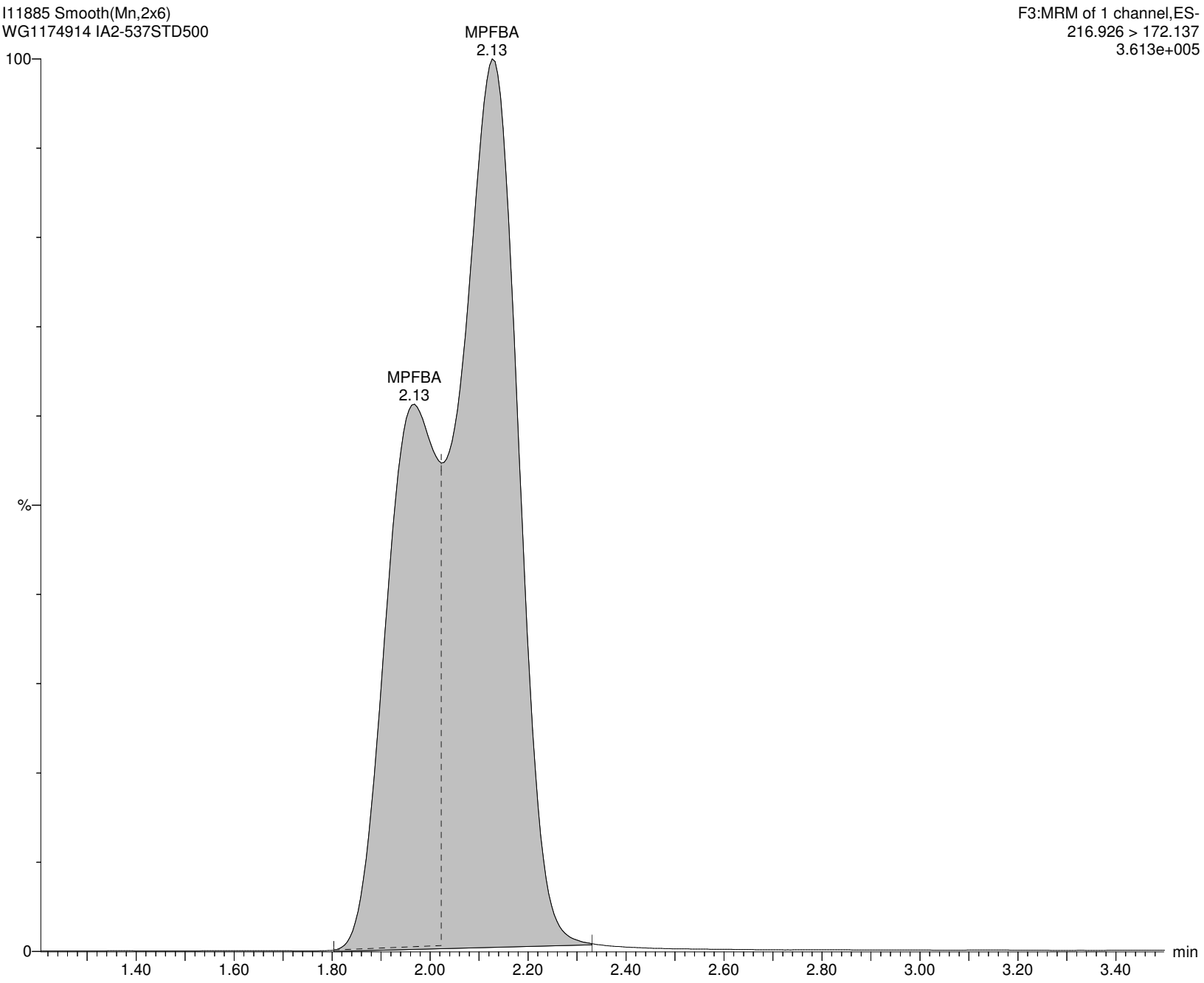

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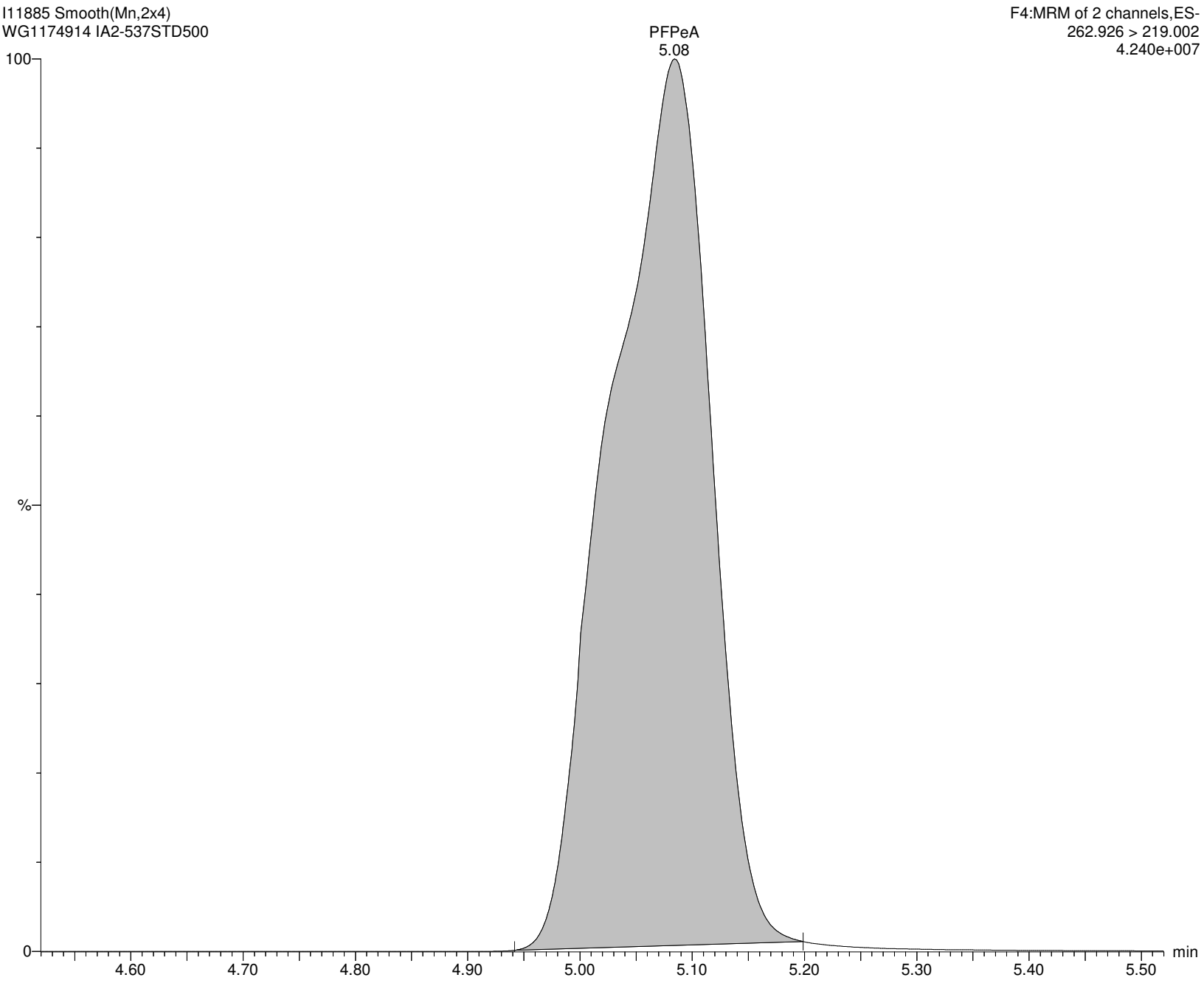

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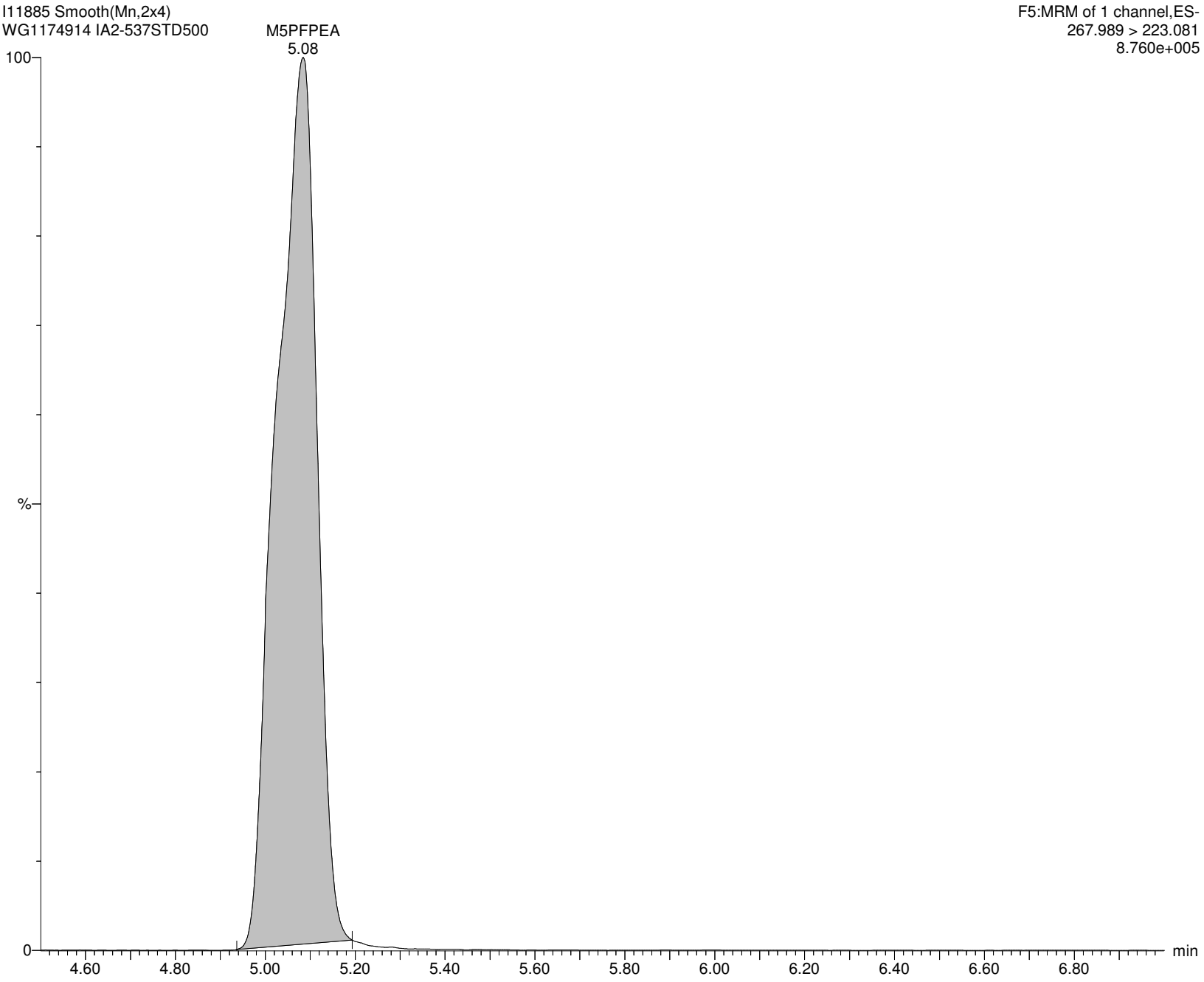

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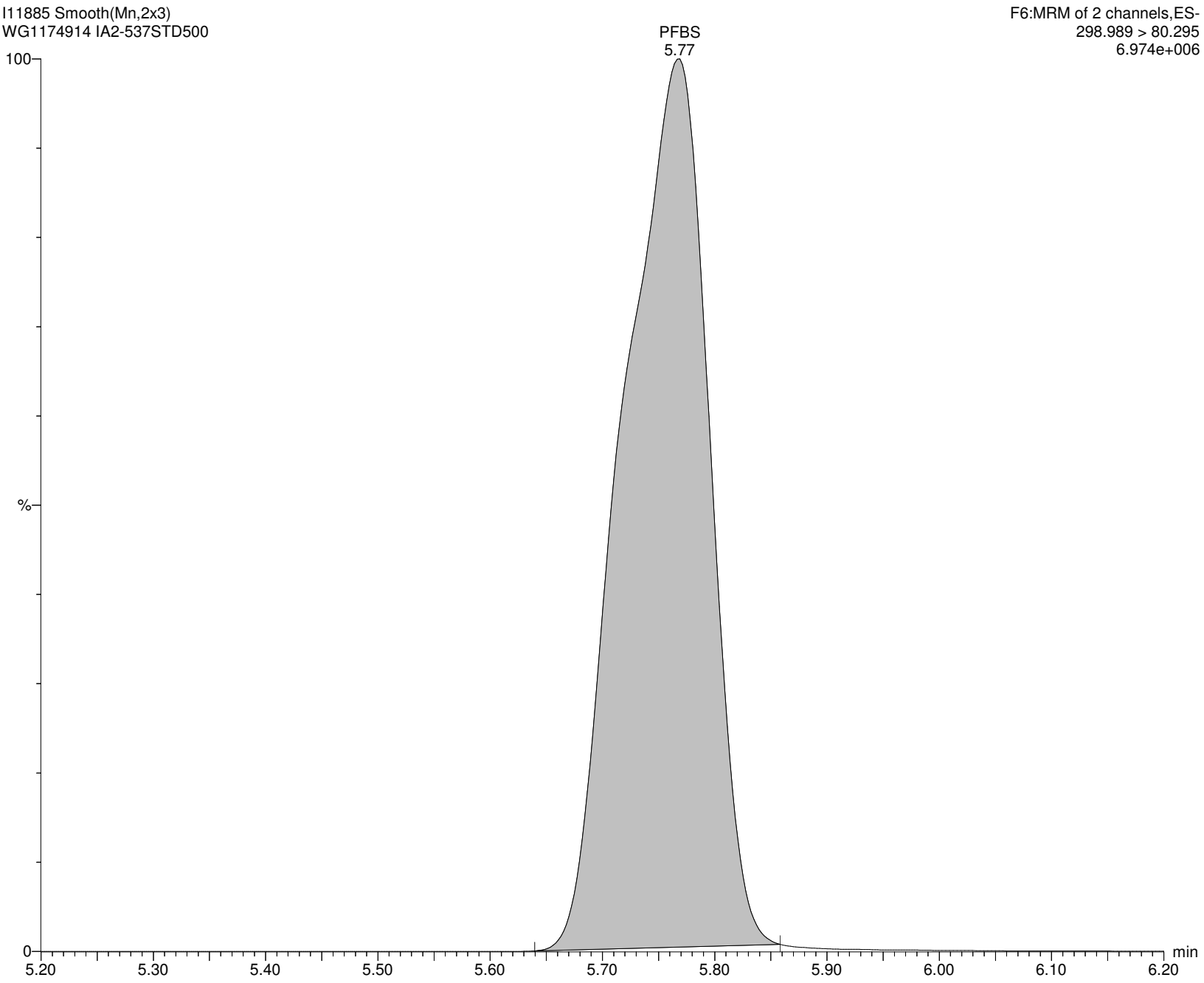

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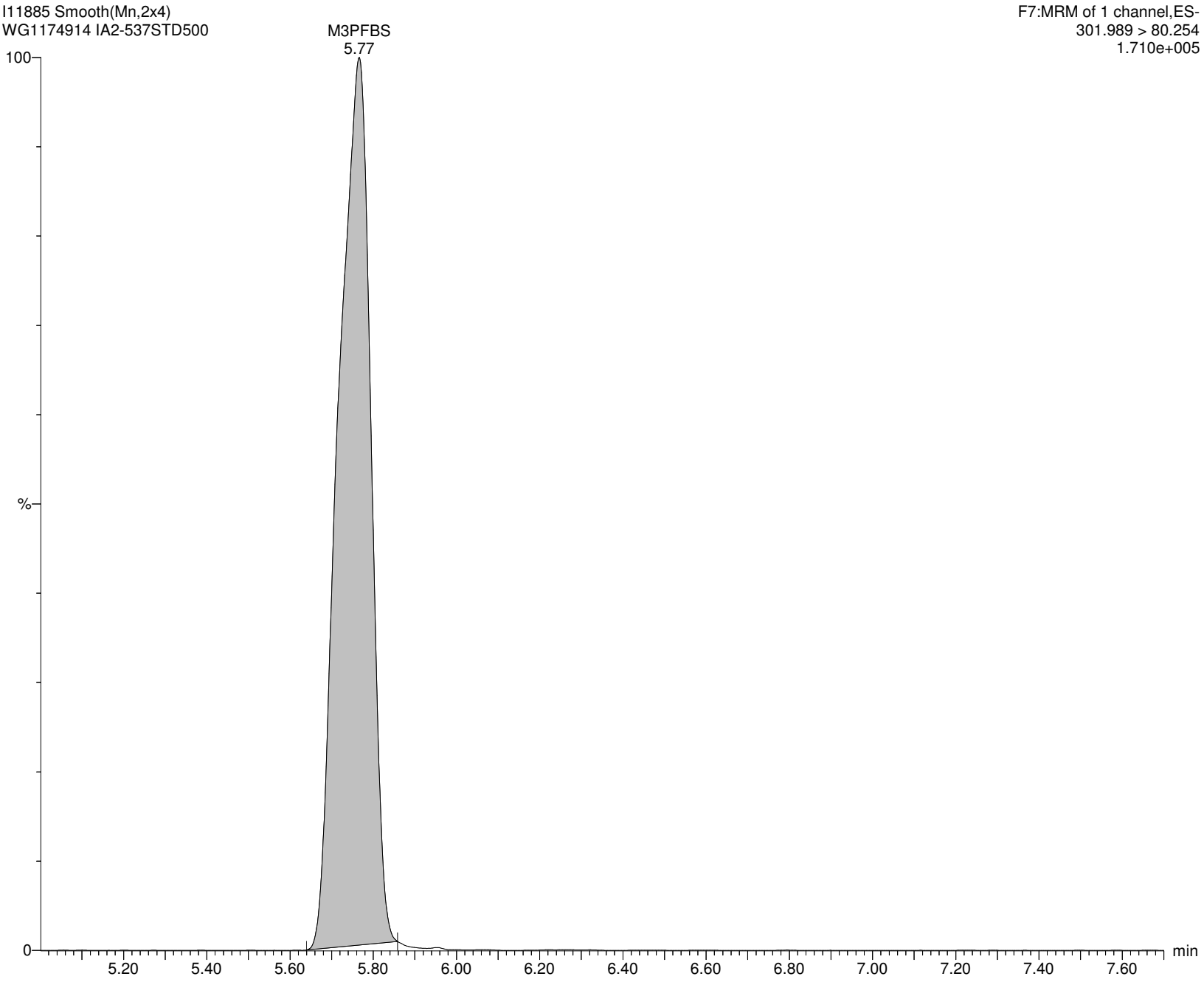

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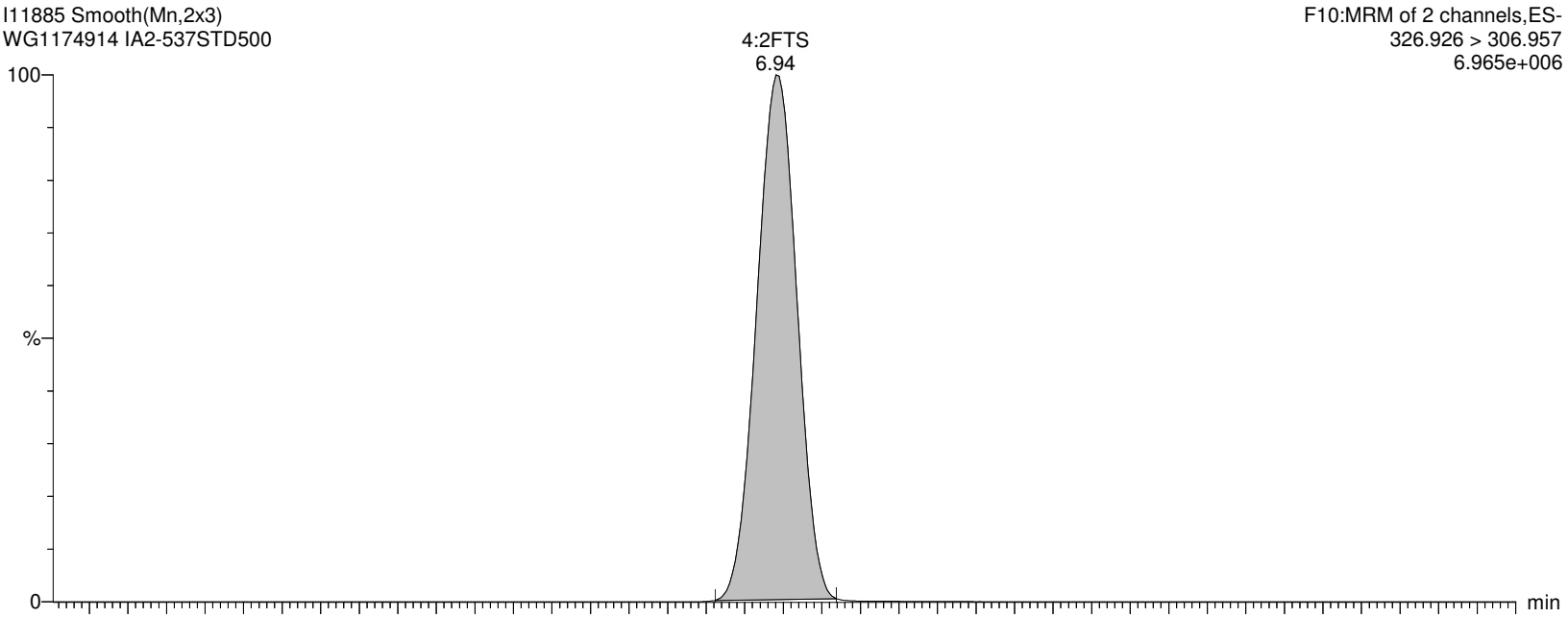

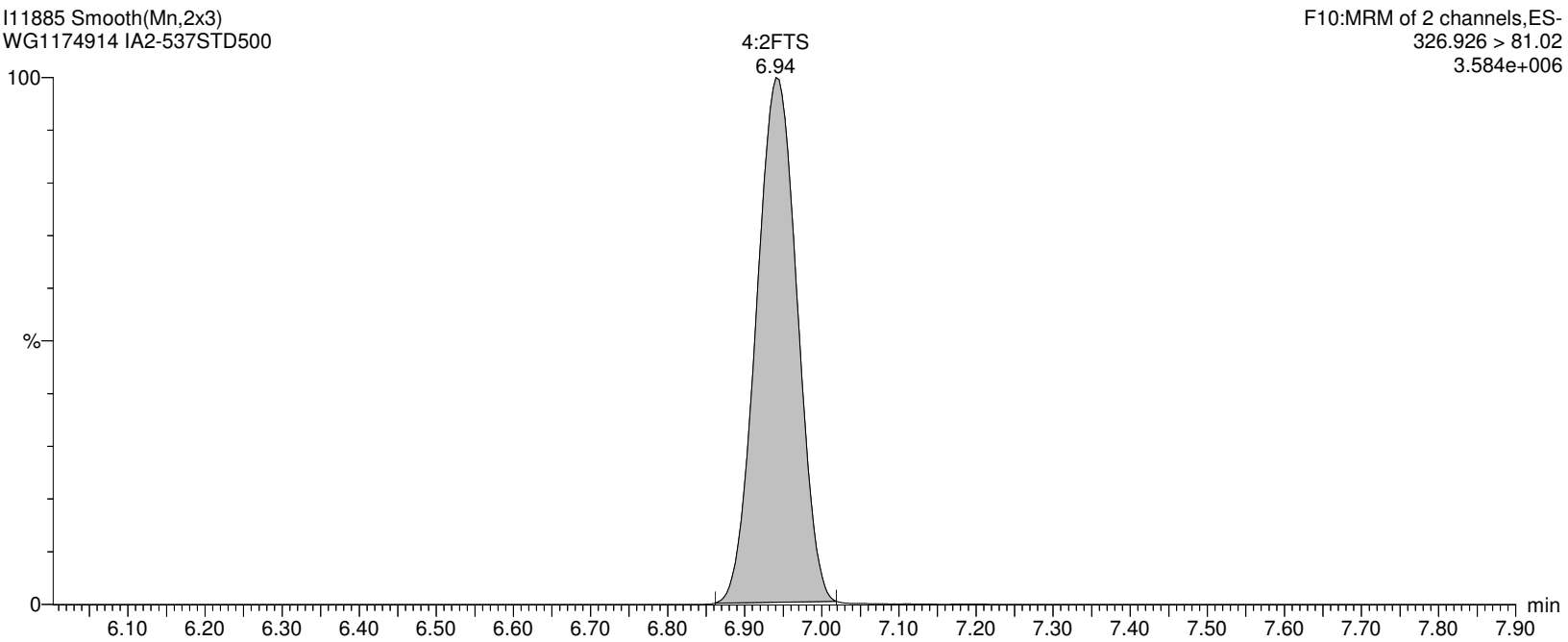

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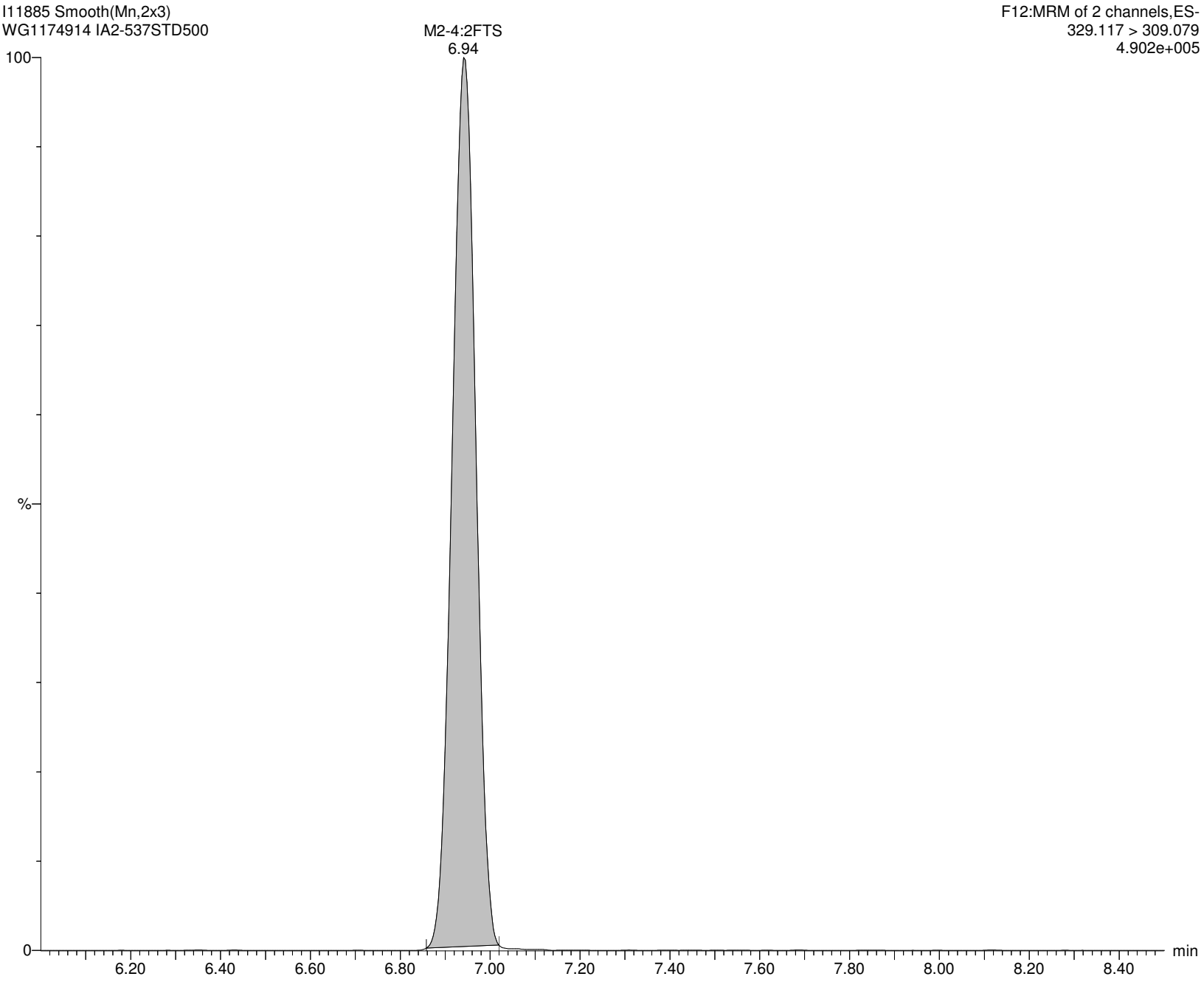

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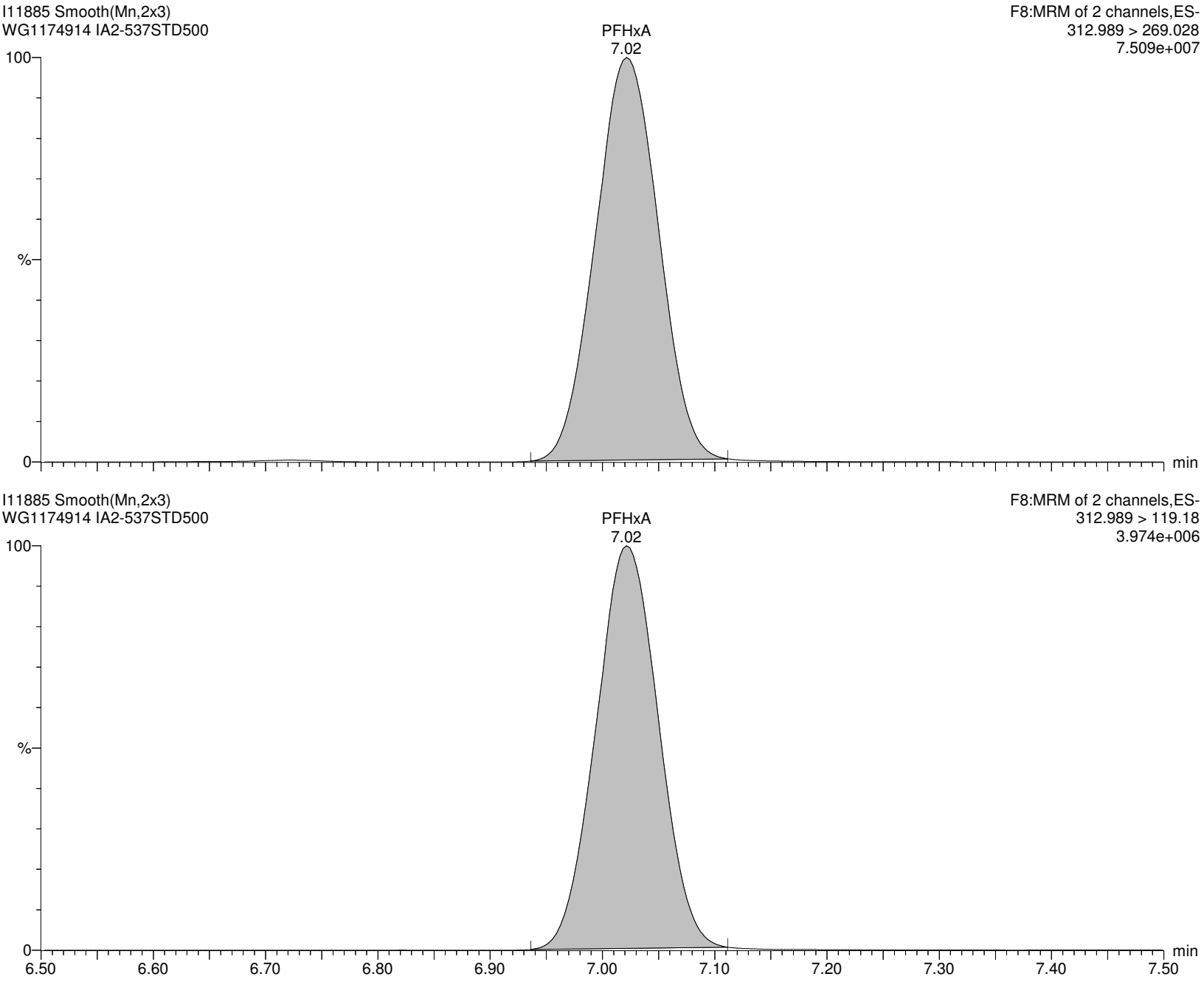

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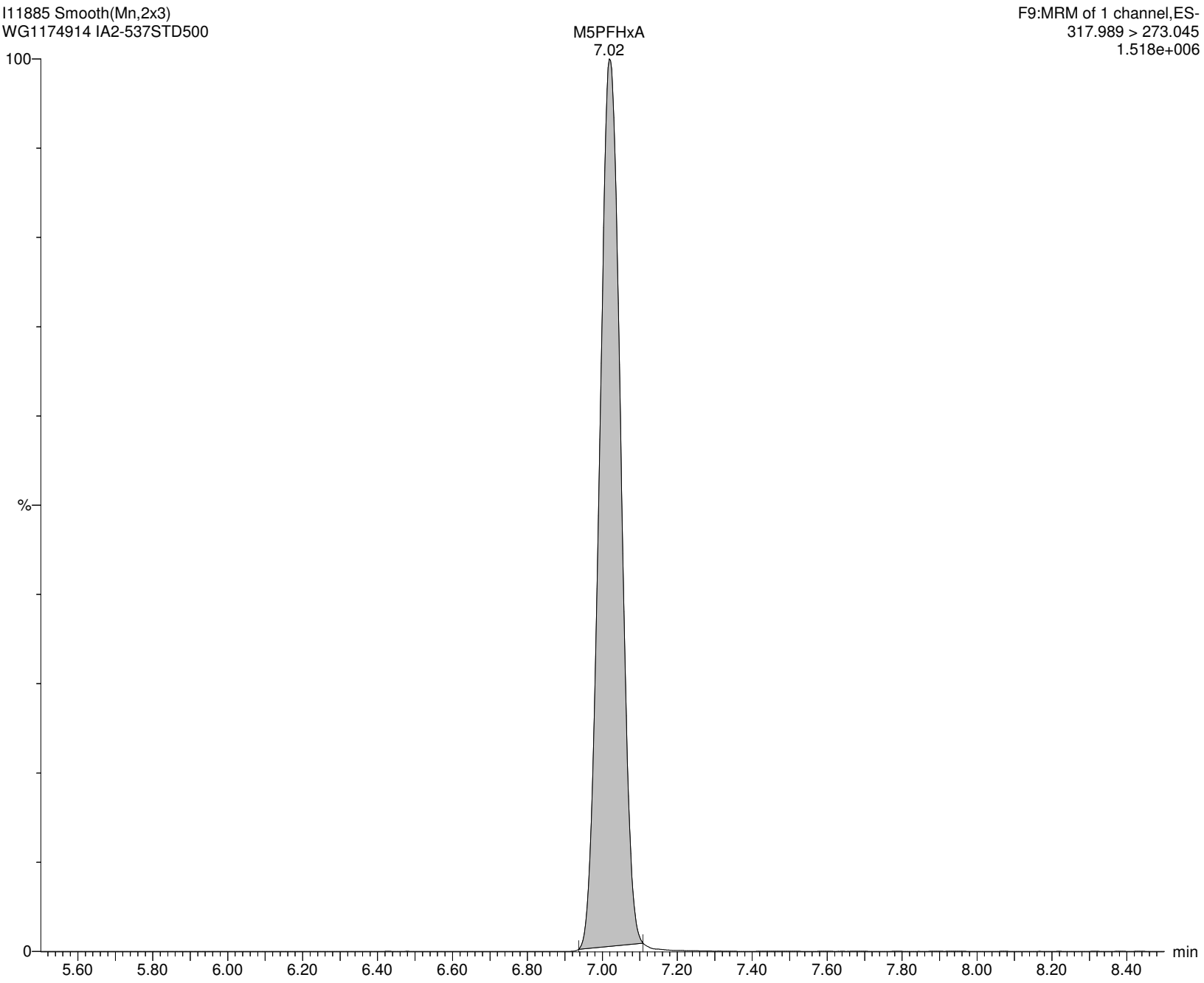

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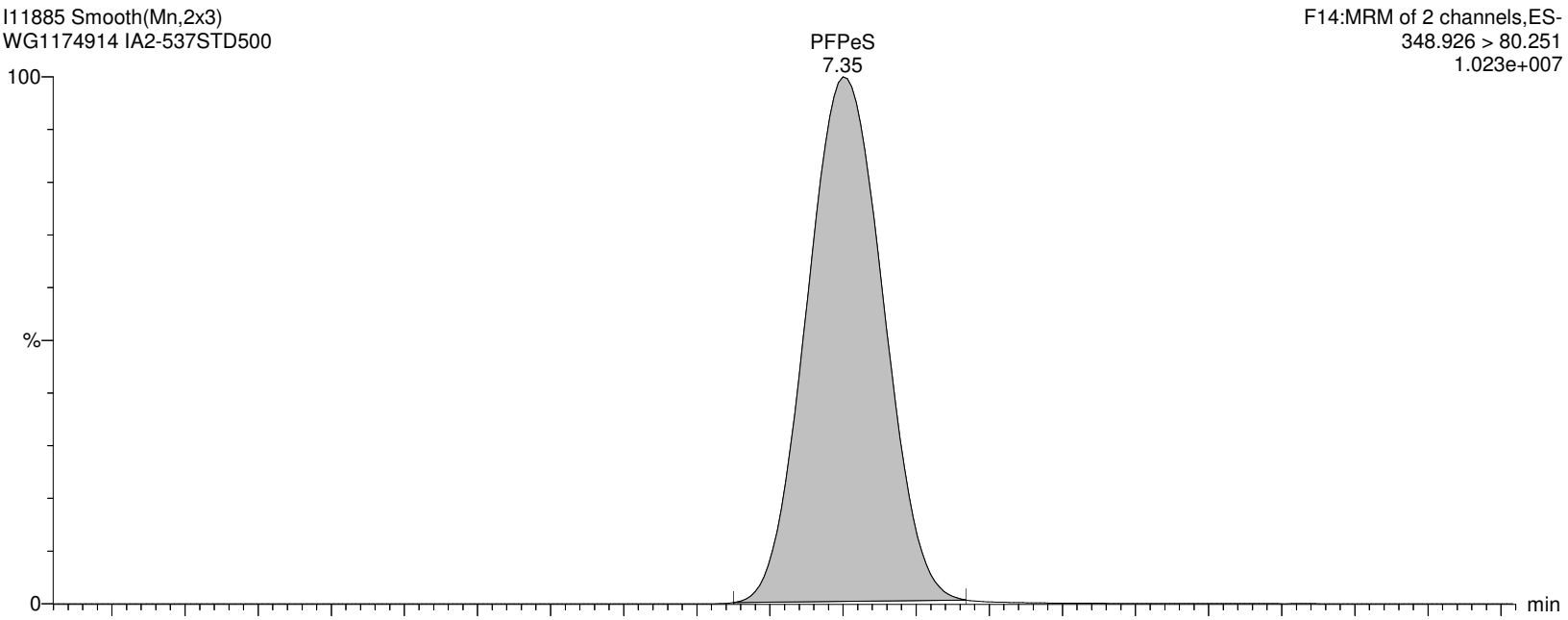

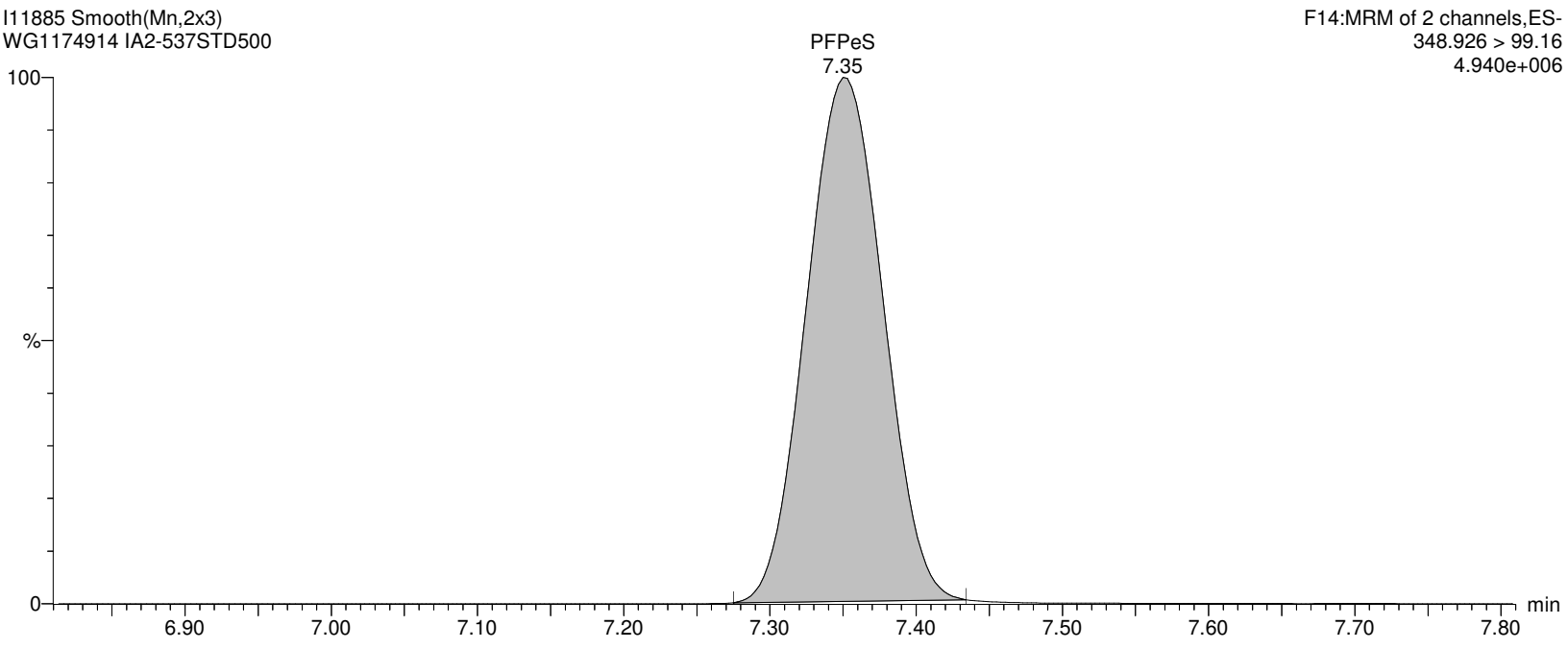

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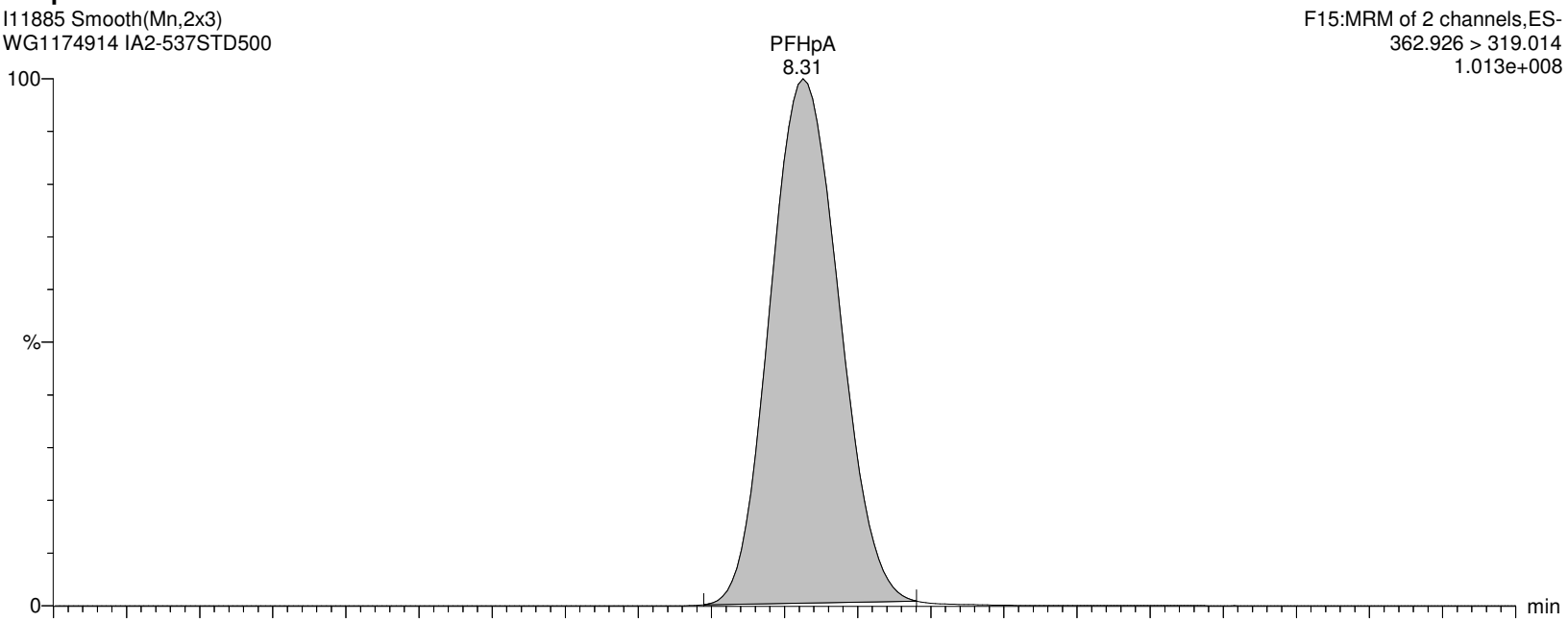

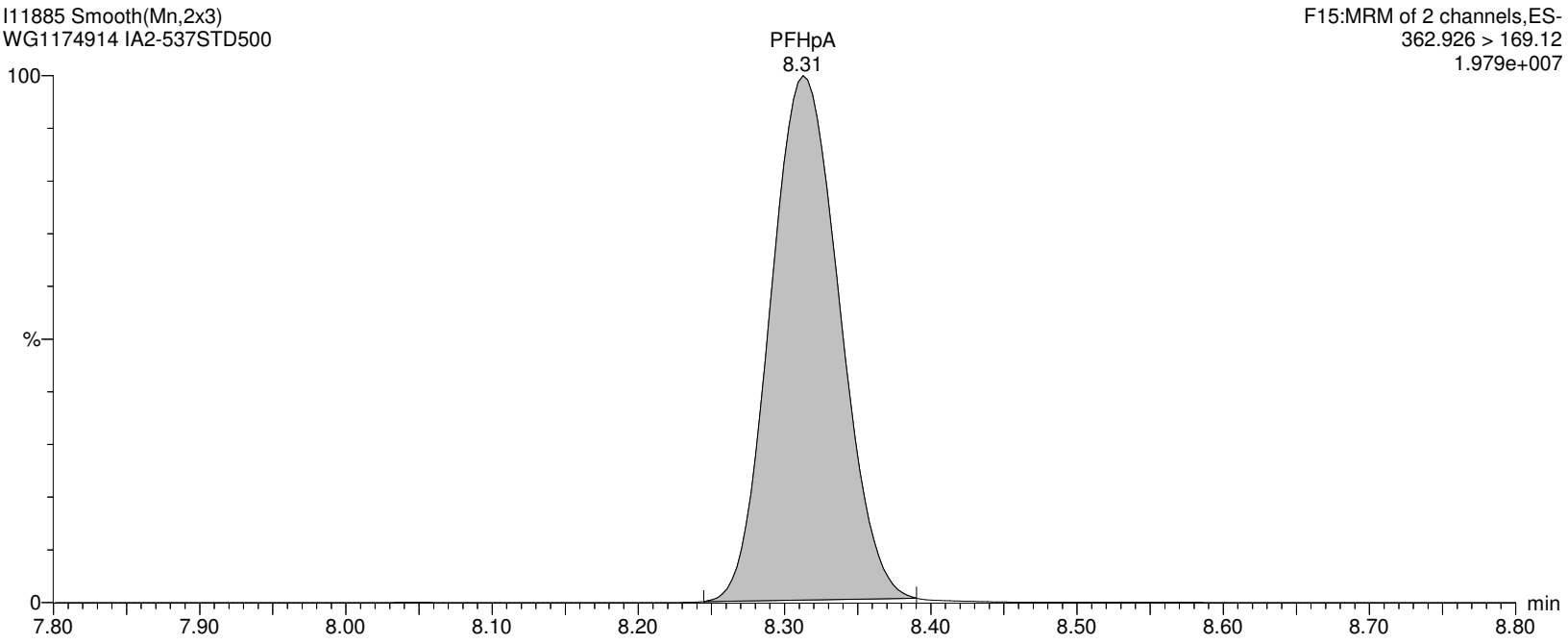

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:29 Eastern Daylight Time

Name: I11885
ID: IA2-537STD500
Date: 01-Nov-2018
Time: 18:58:17
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,2
Instrument: XEVO-TQSmicro#QEA0276
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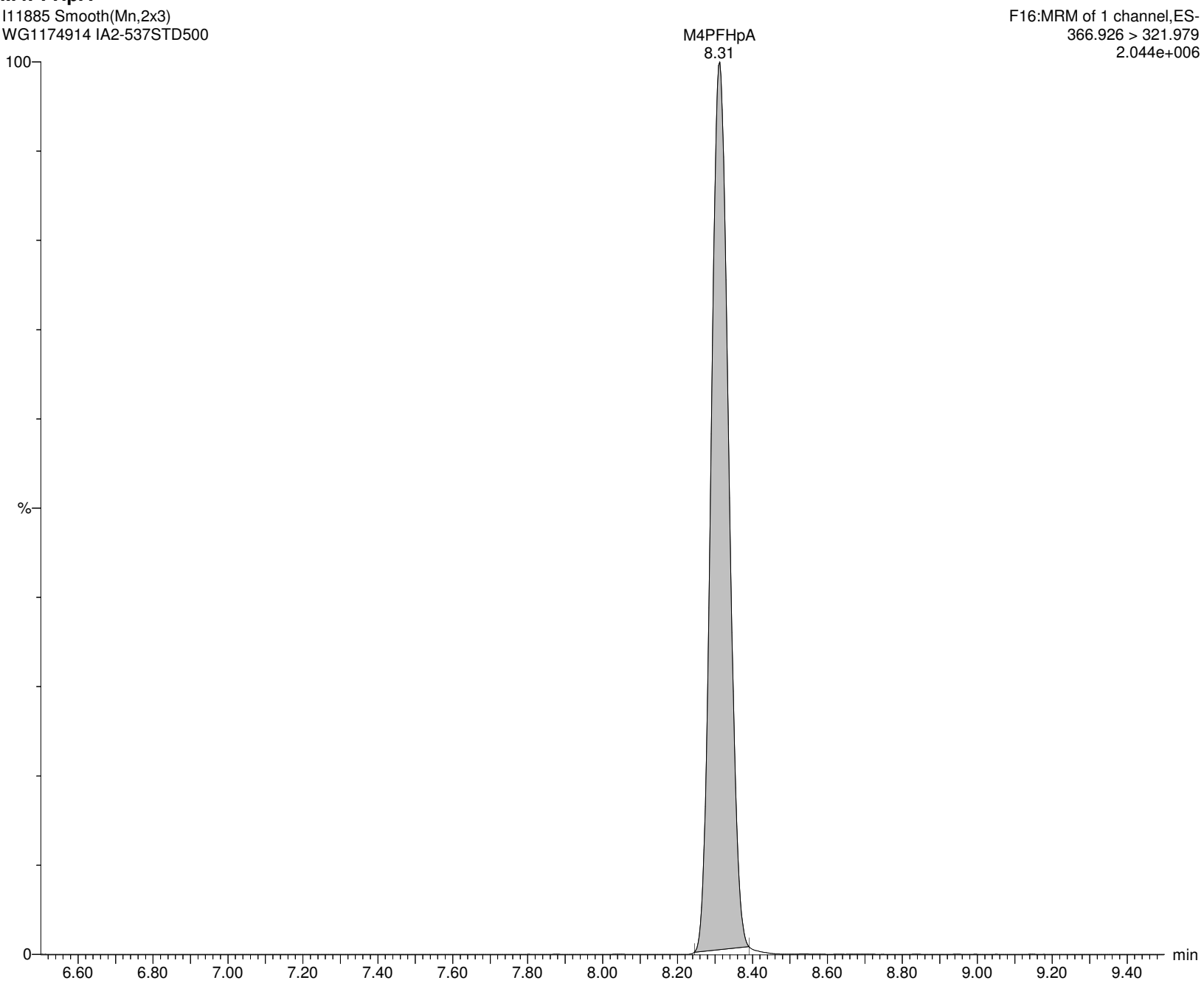

all concentration units in (ng/mL)

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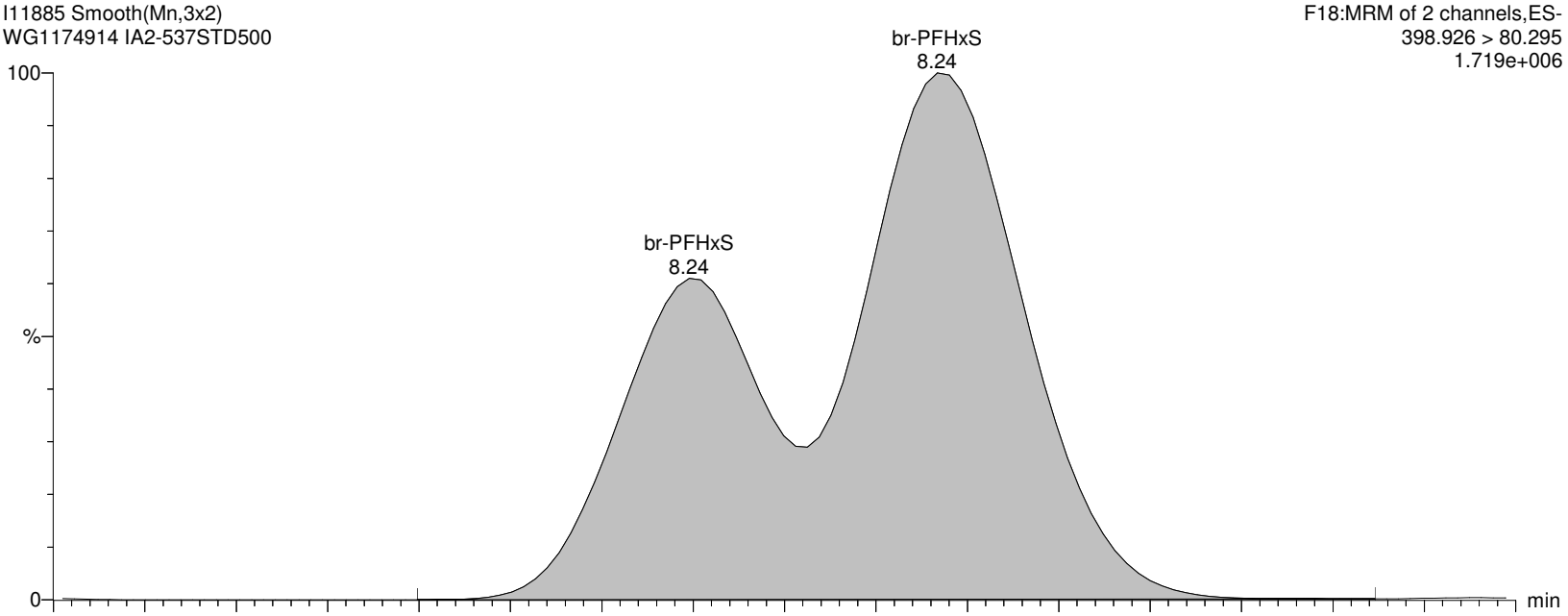

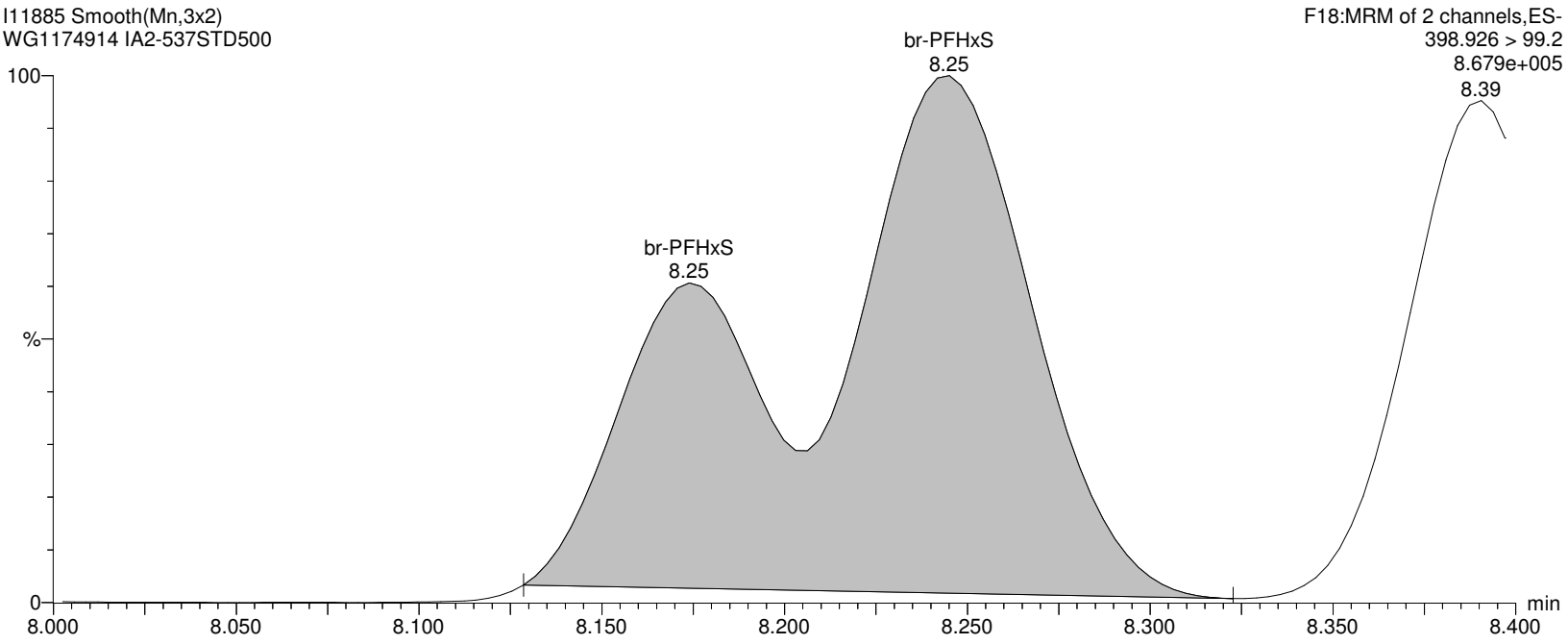

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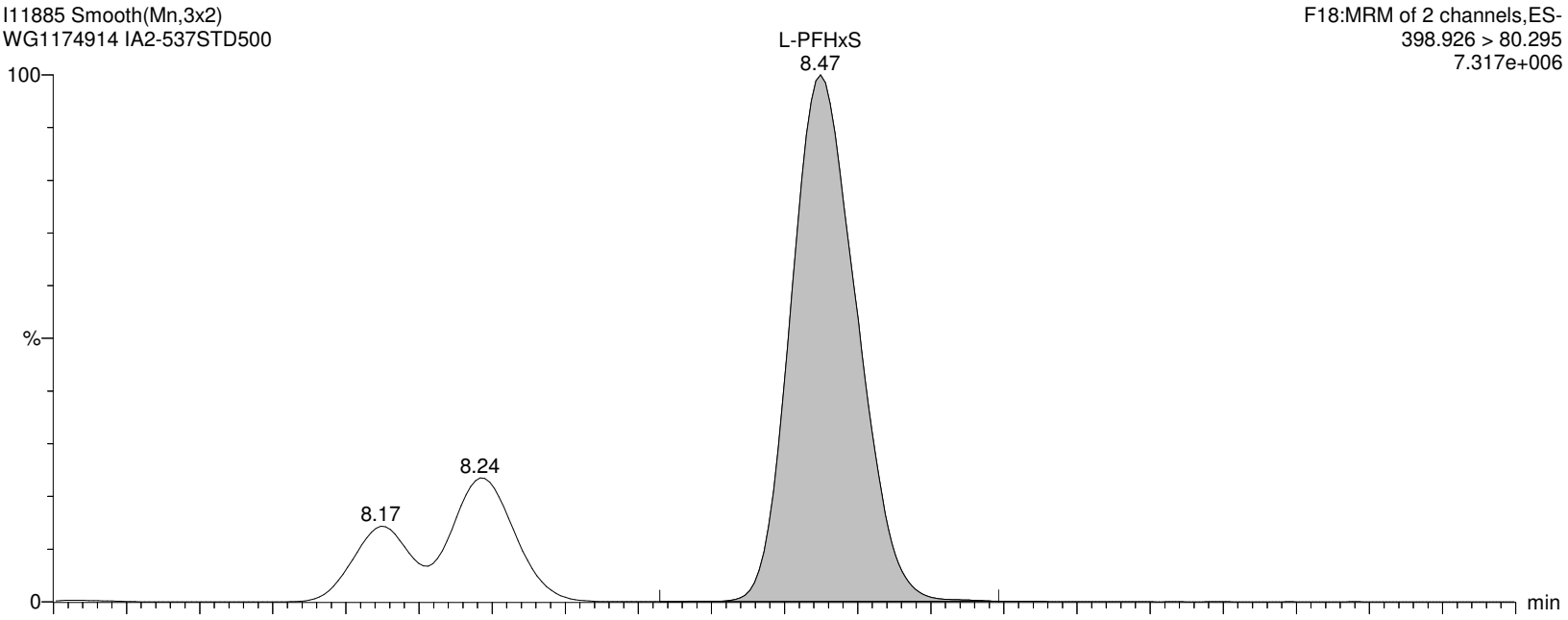

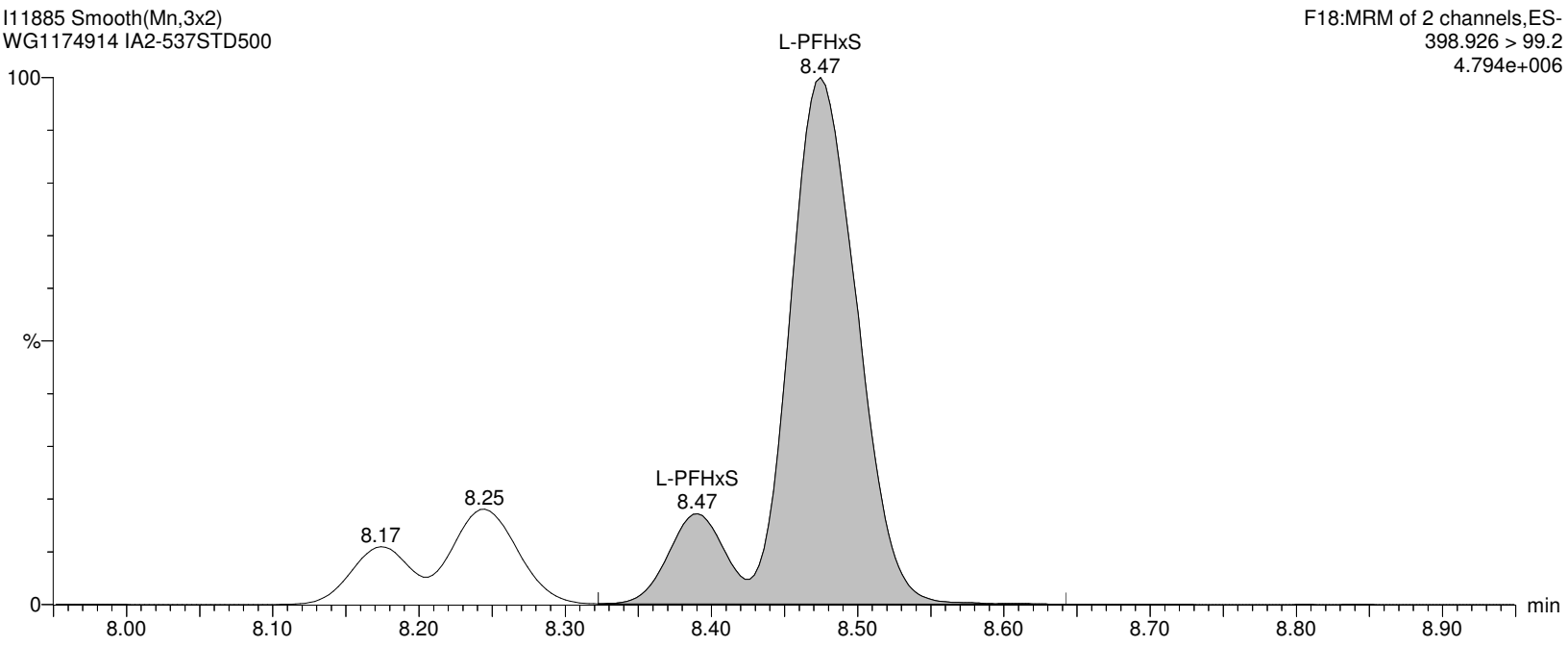

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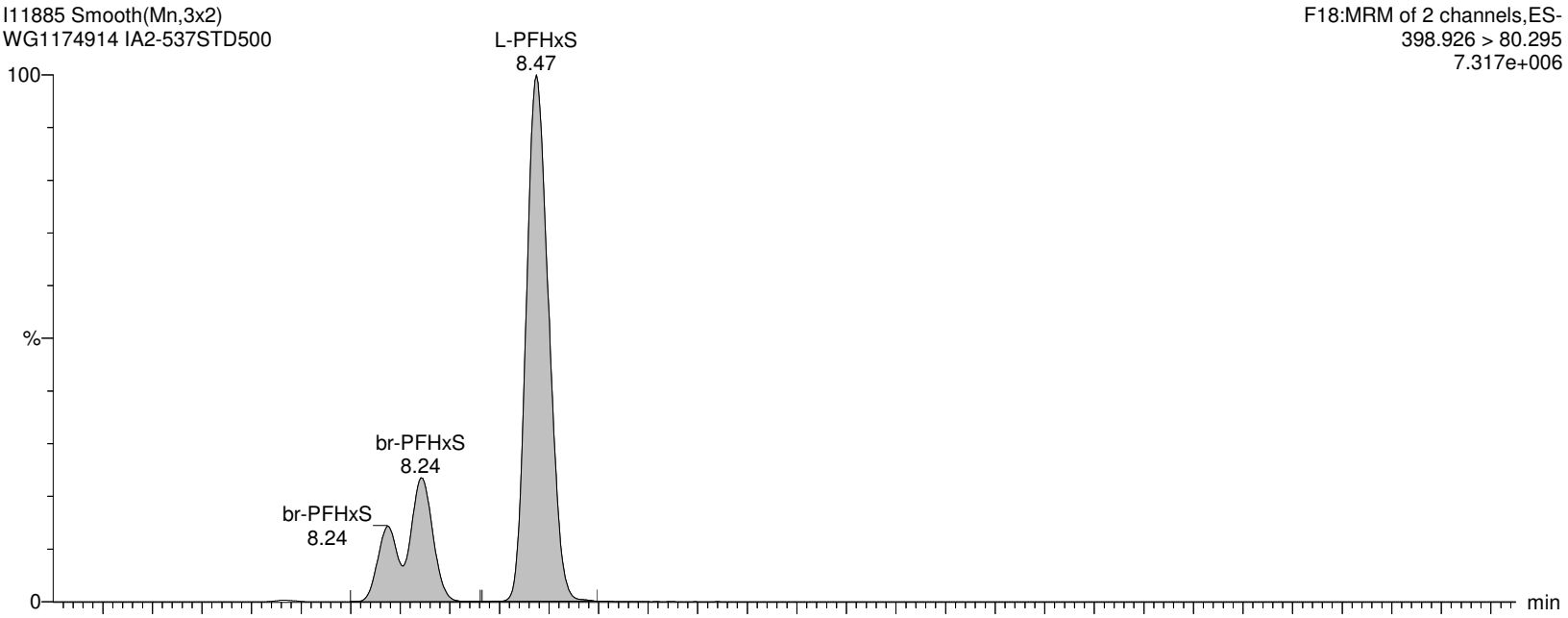

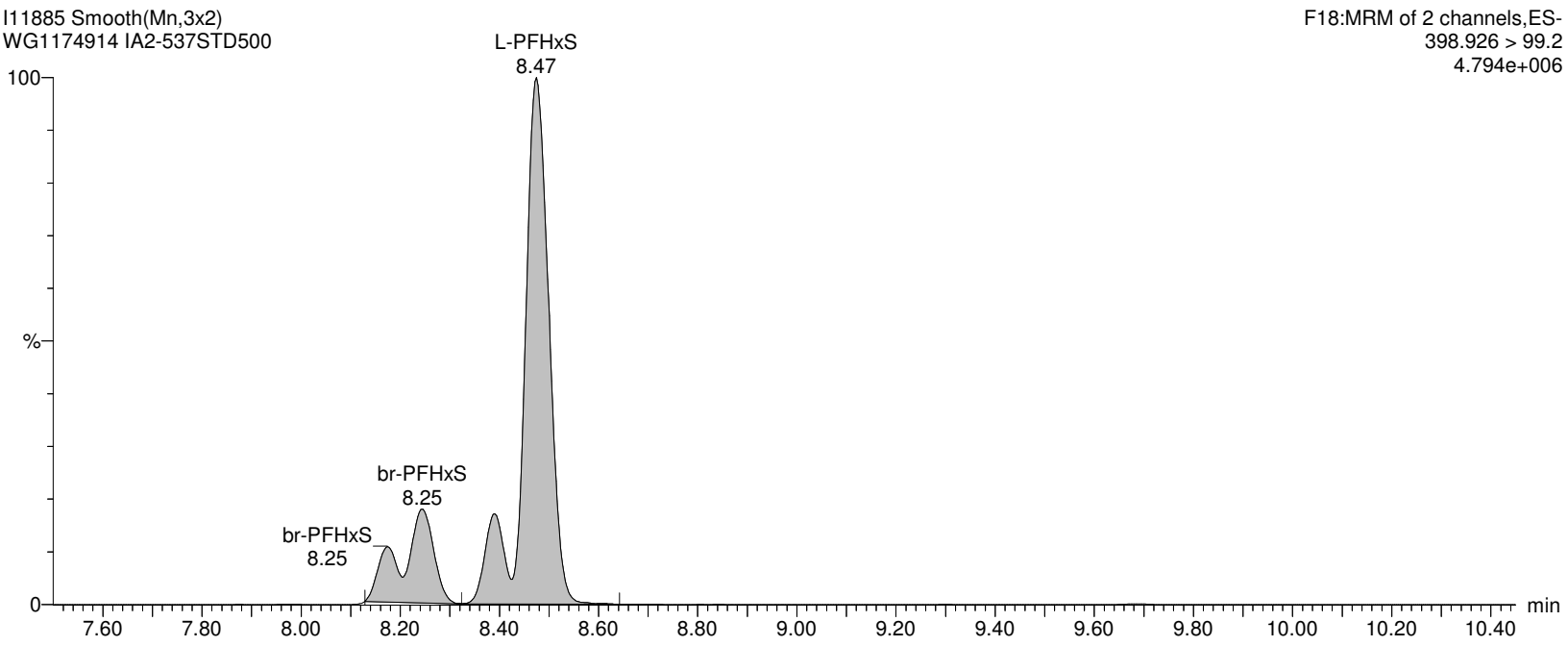

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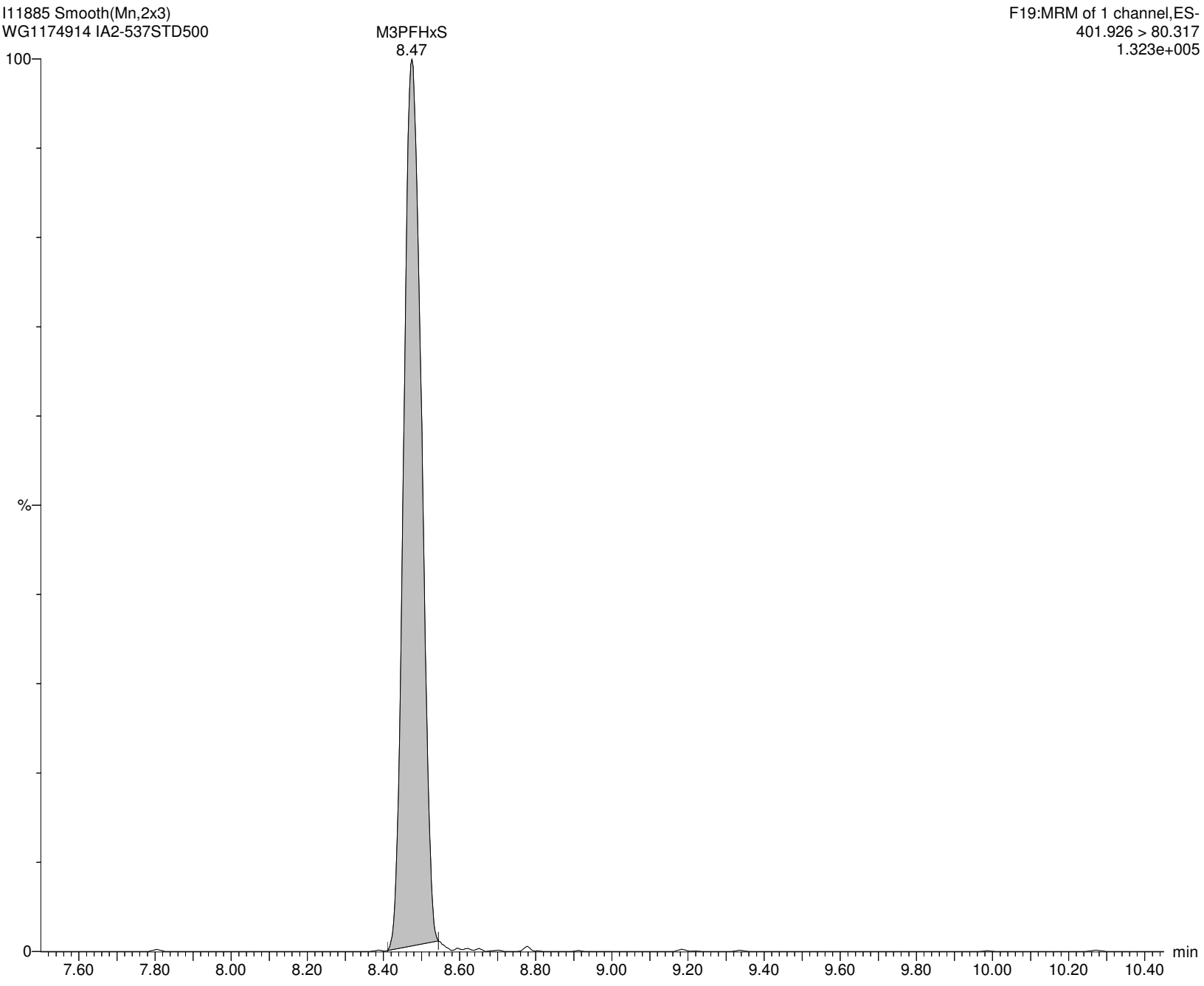

all concentration units in (ng/mL)

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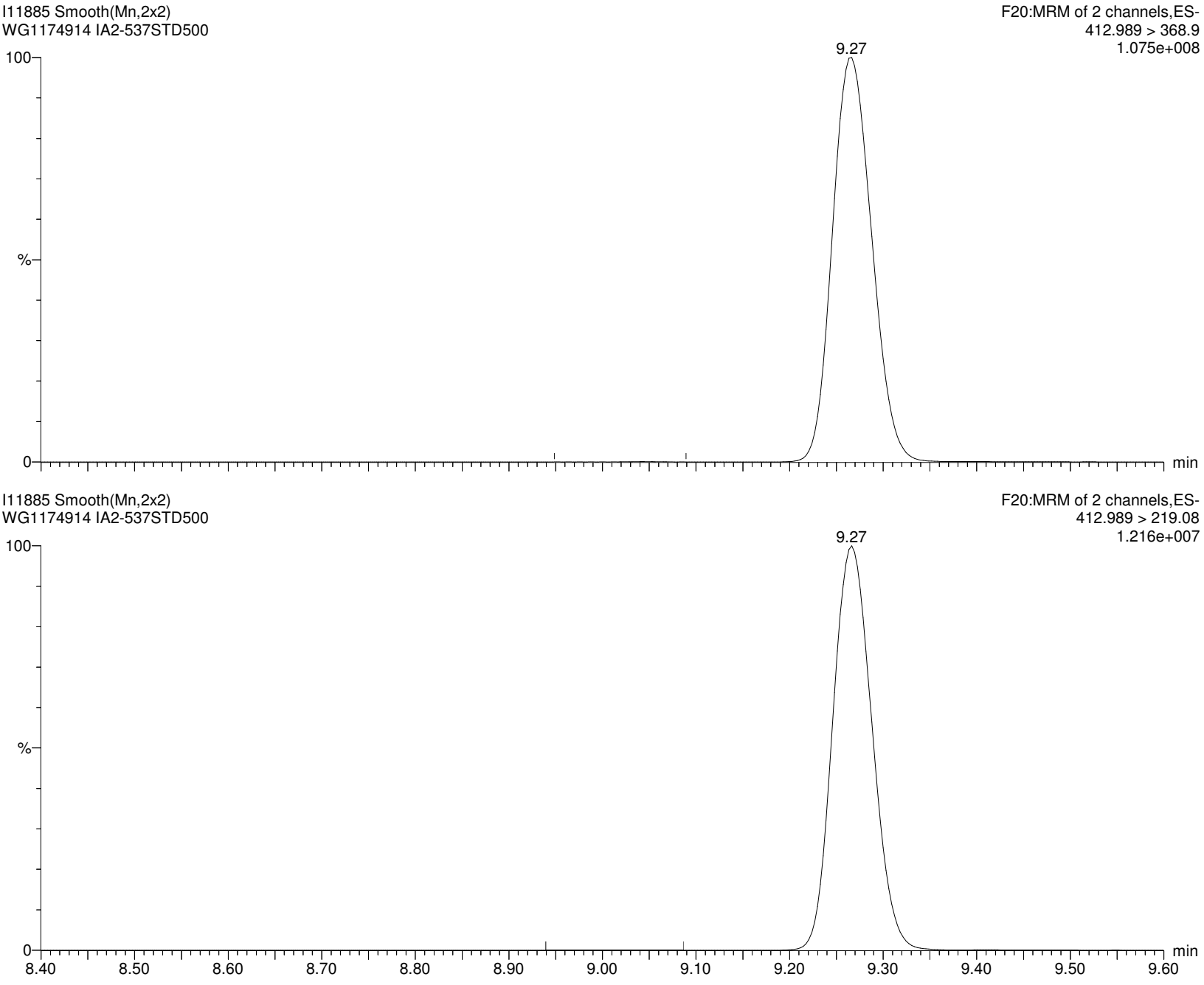

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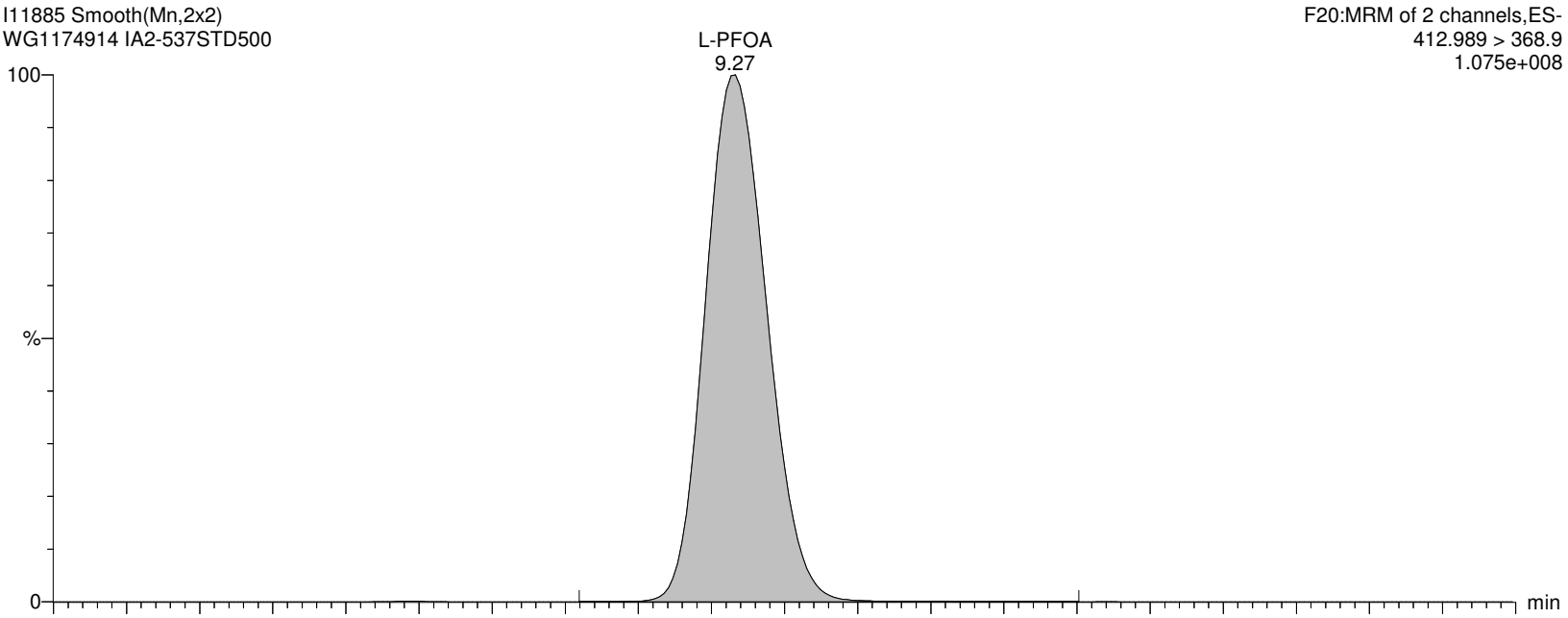

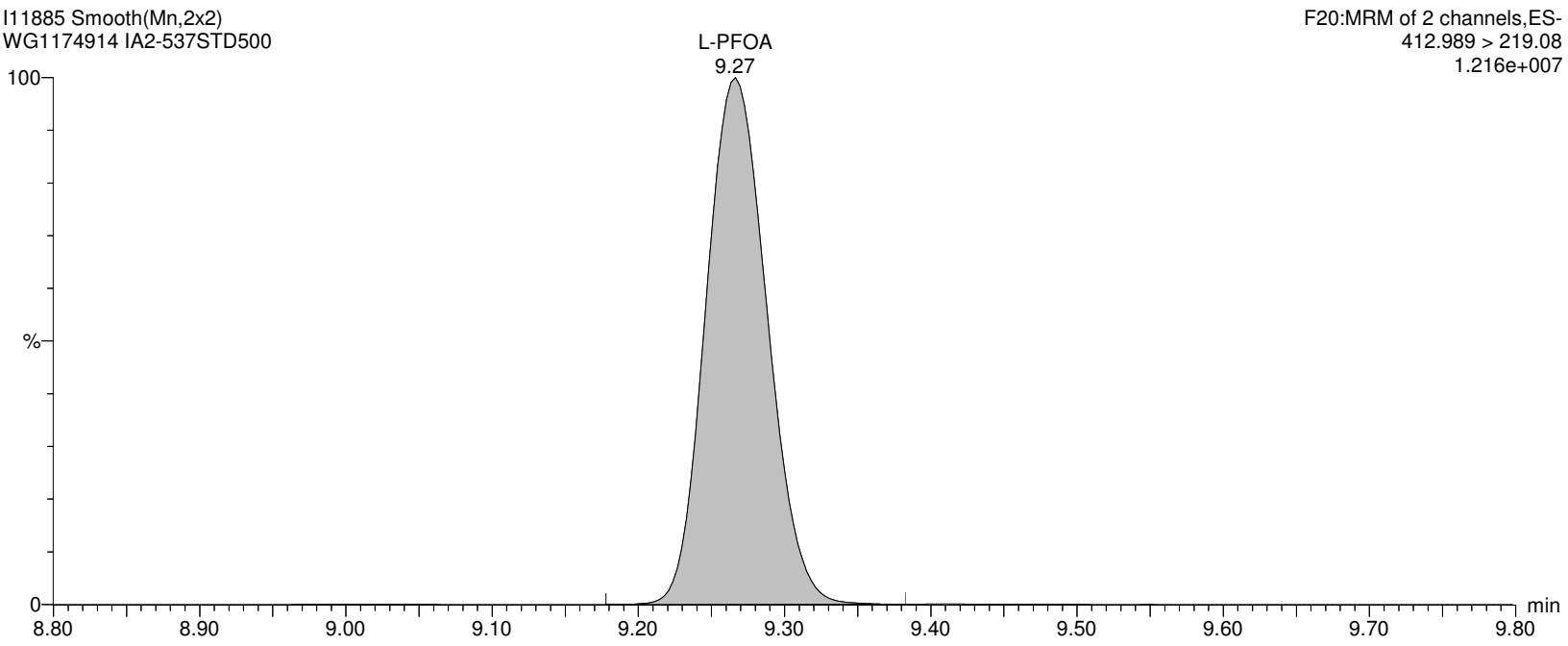

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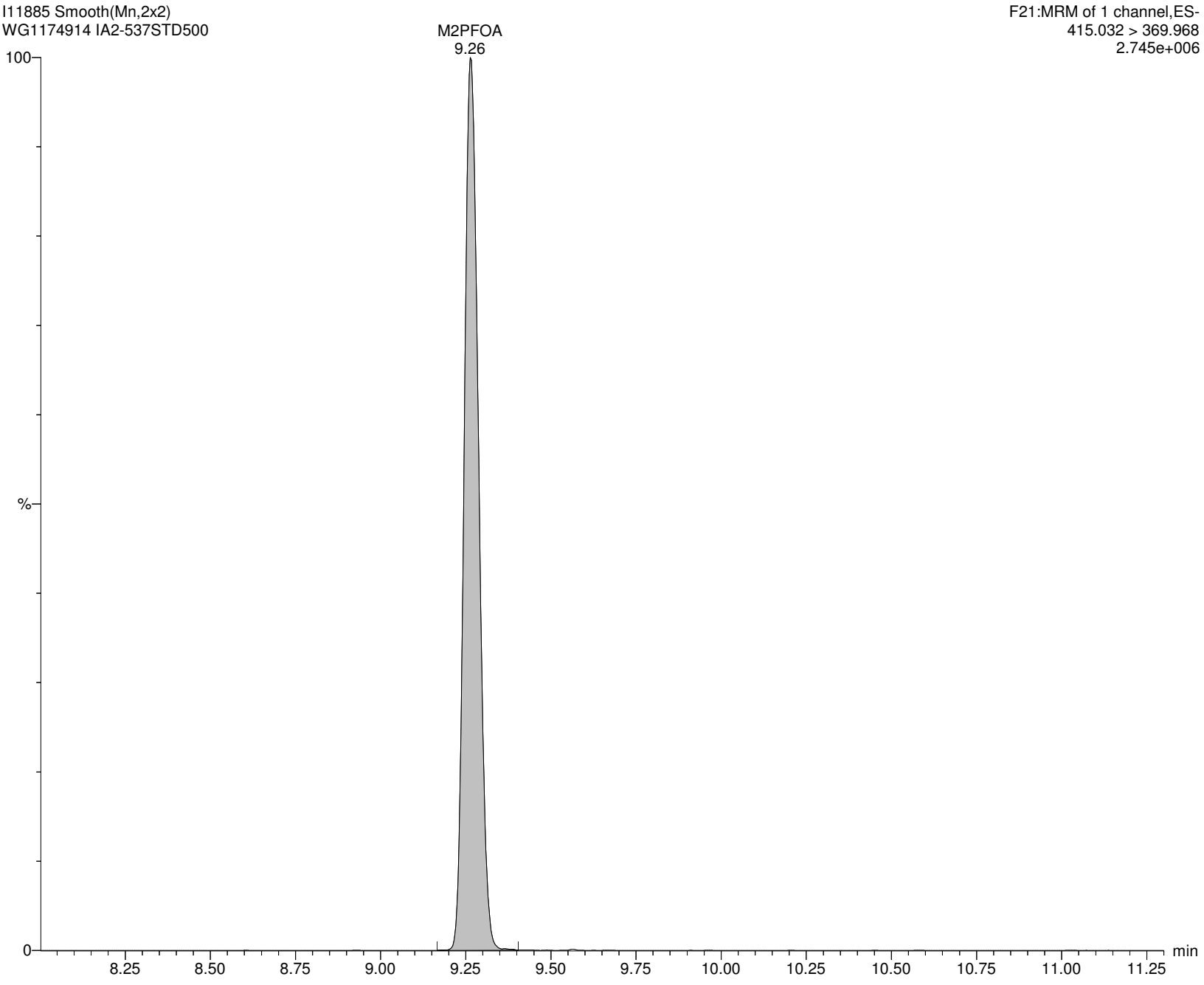

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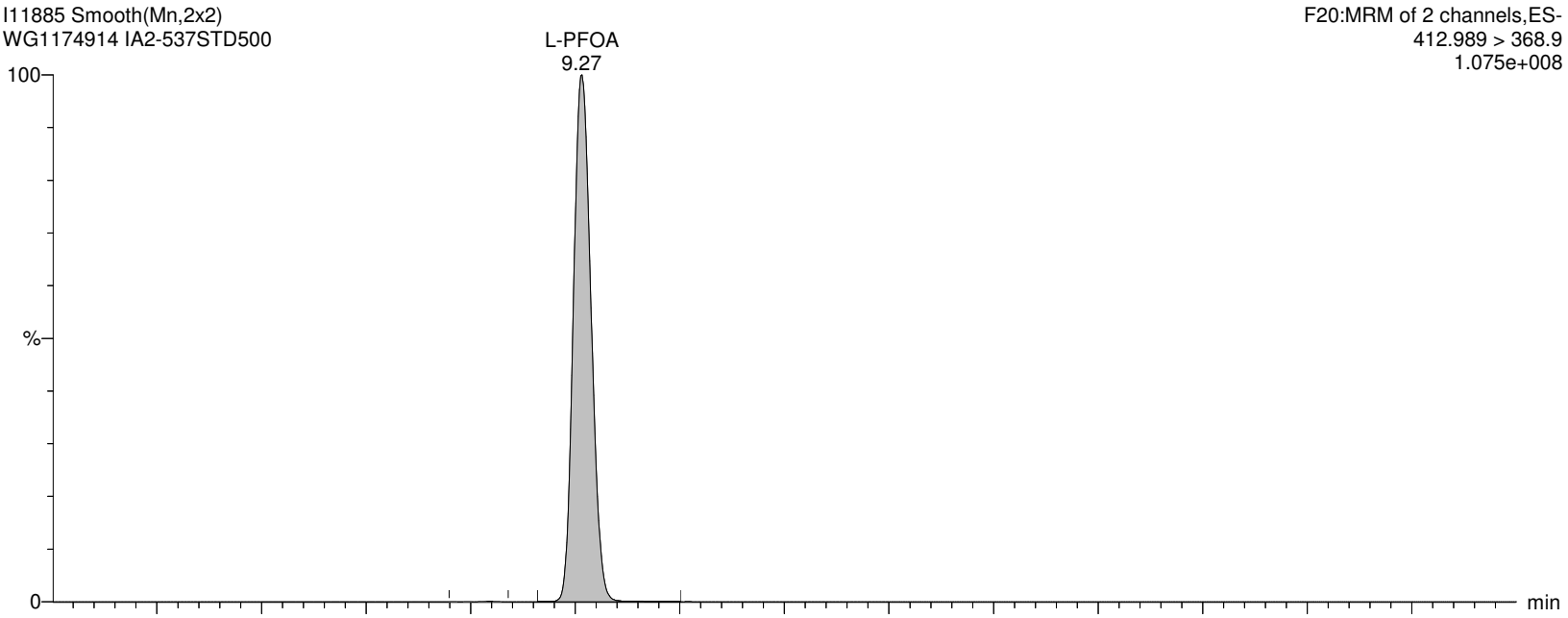

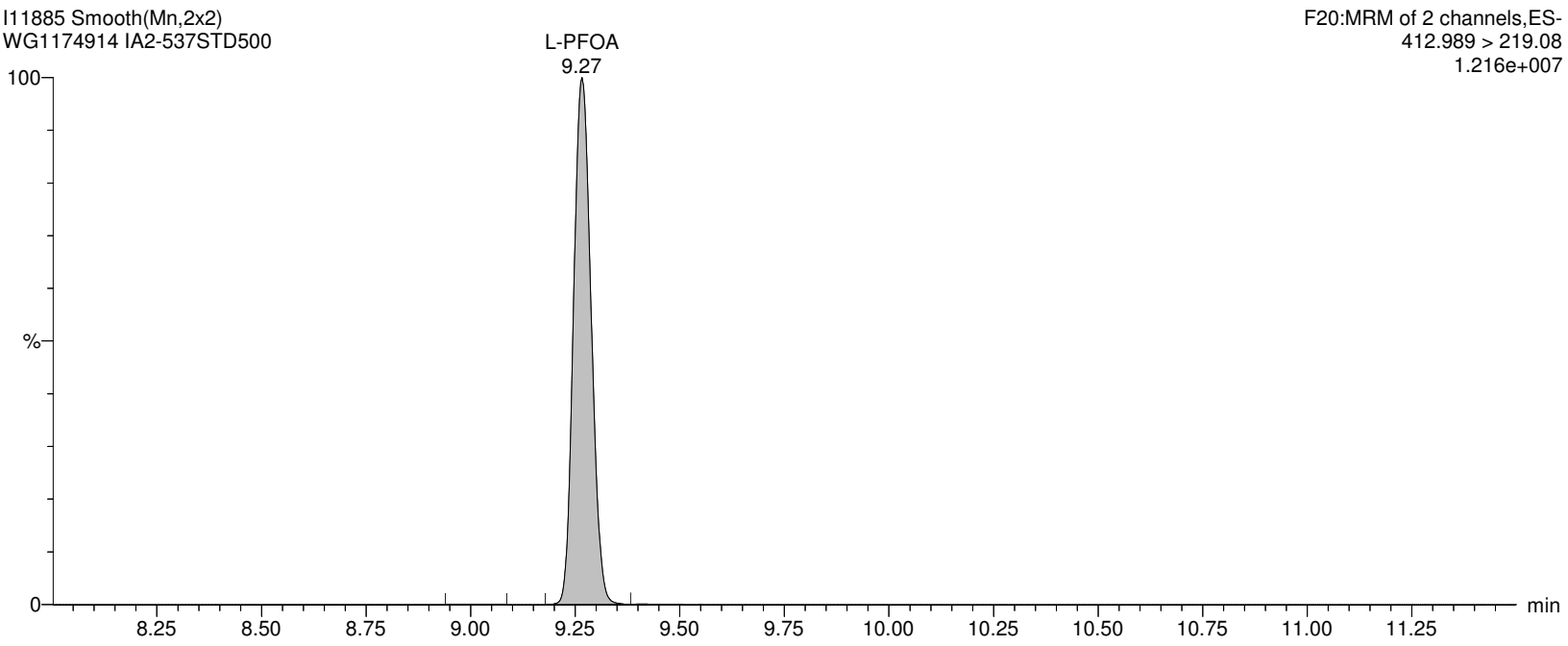

all concentration units in (ng/mL)

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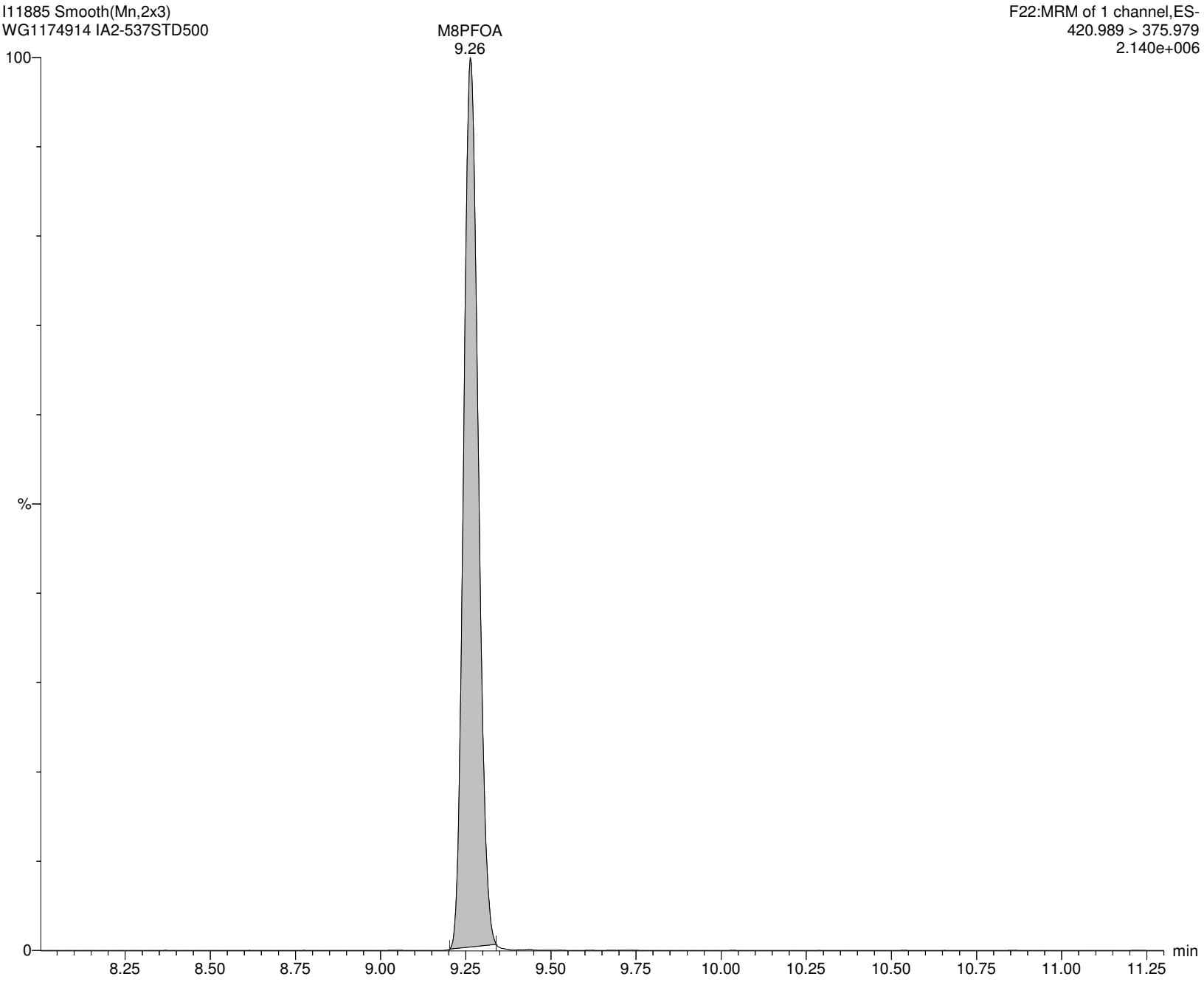

all concentration units in (ng/mL)

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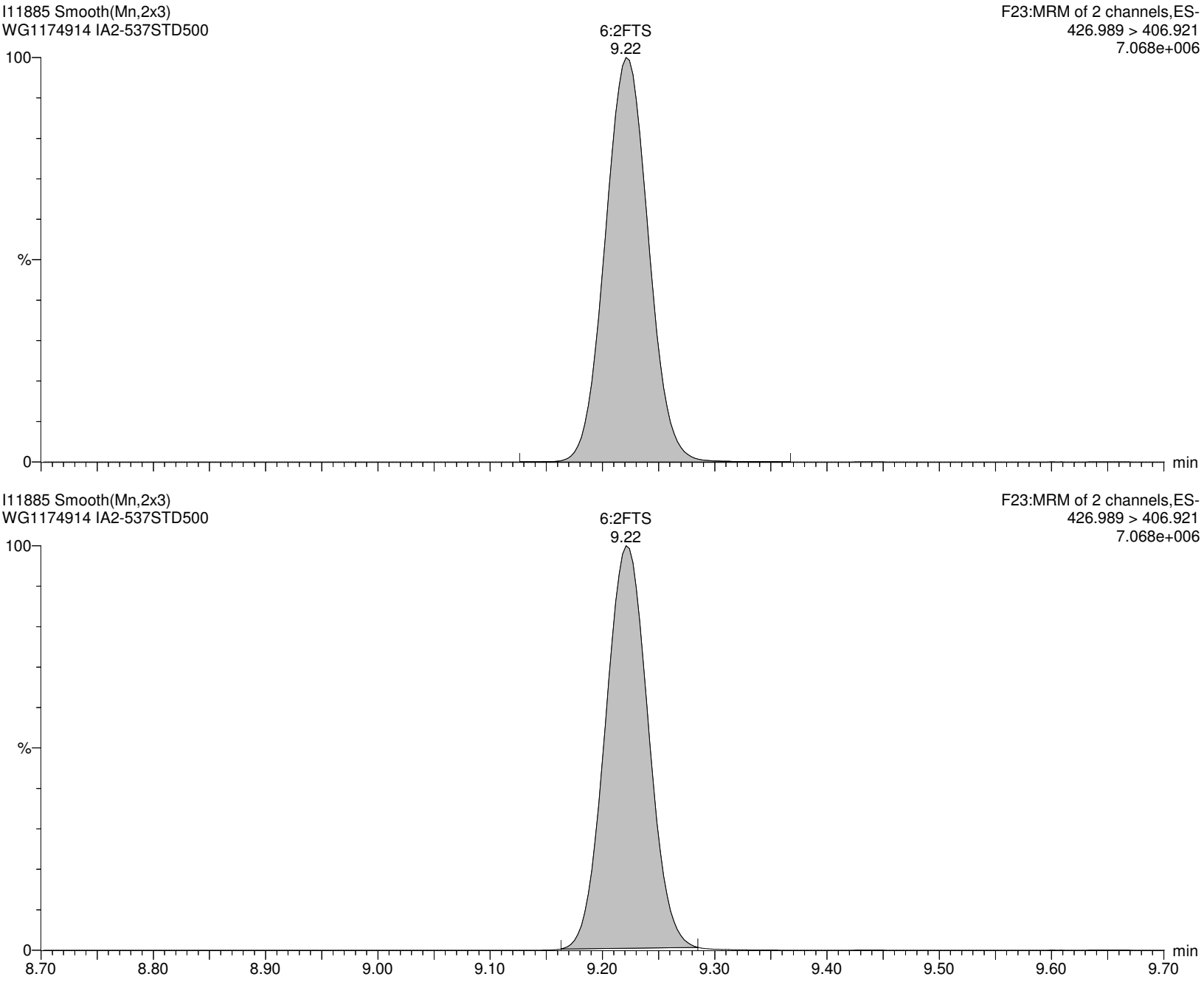

all concentration units in (ng/mL)

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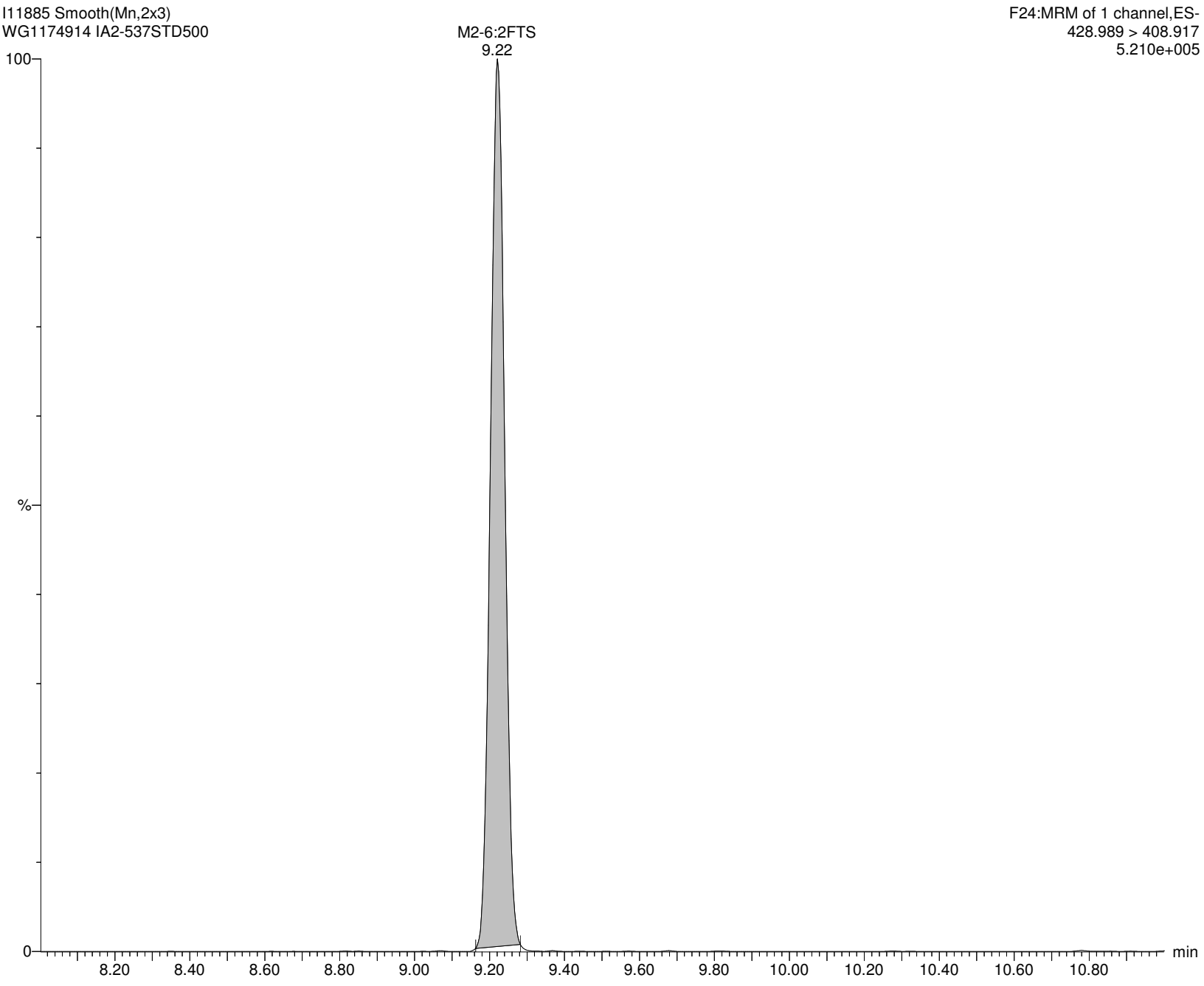

all concentration units in (ng/mL)

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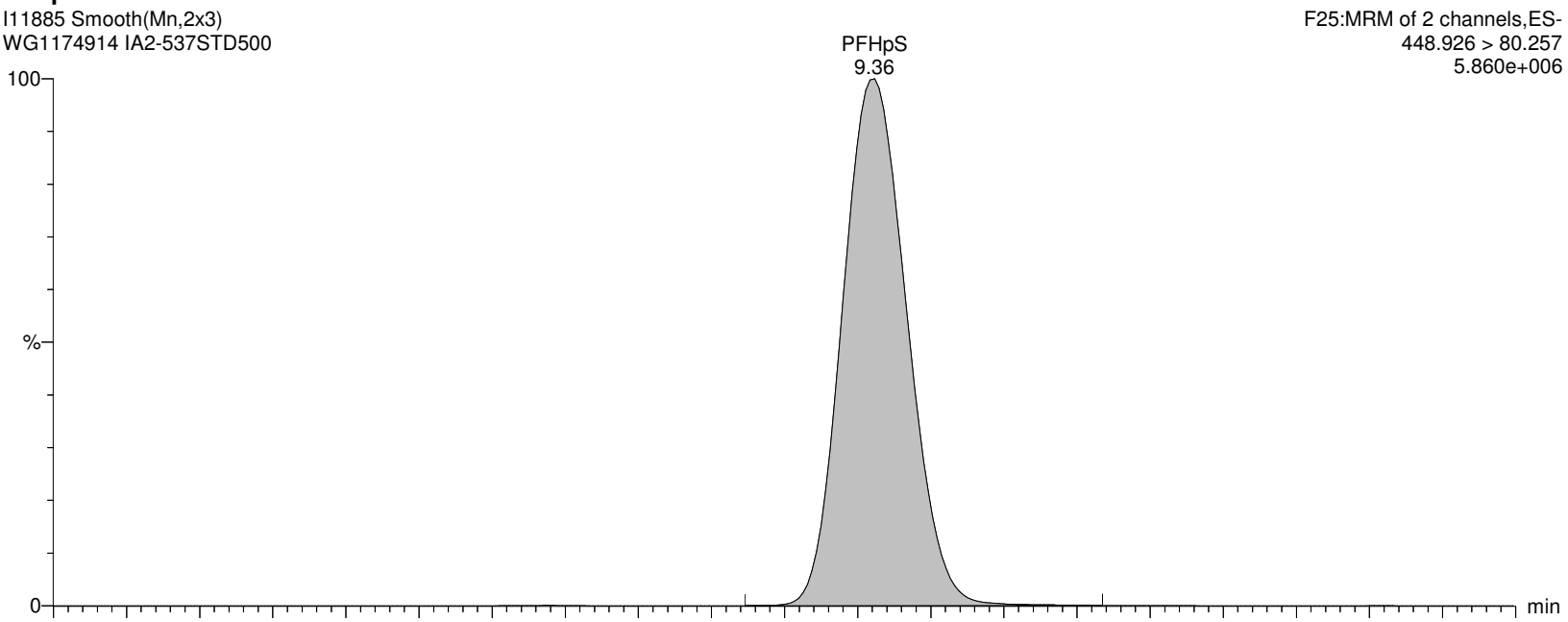

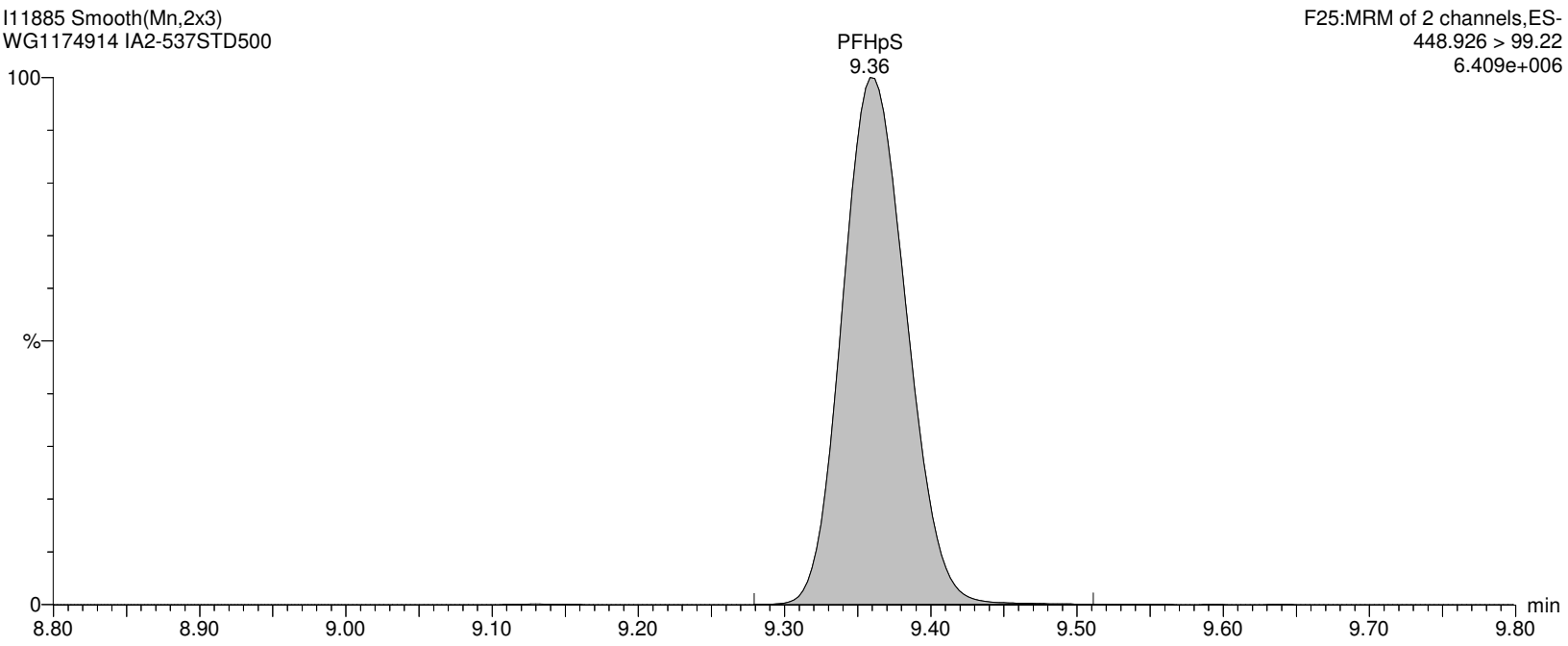

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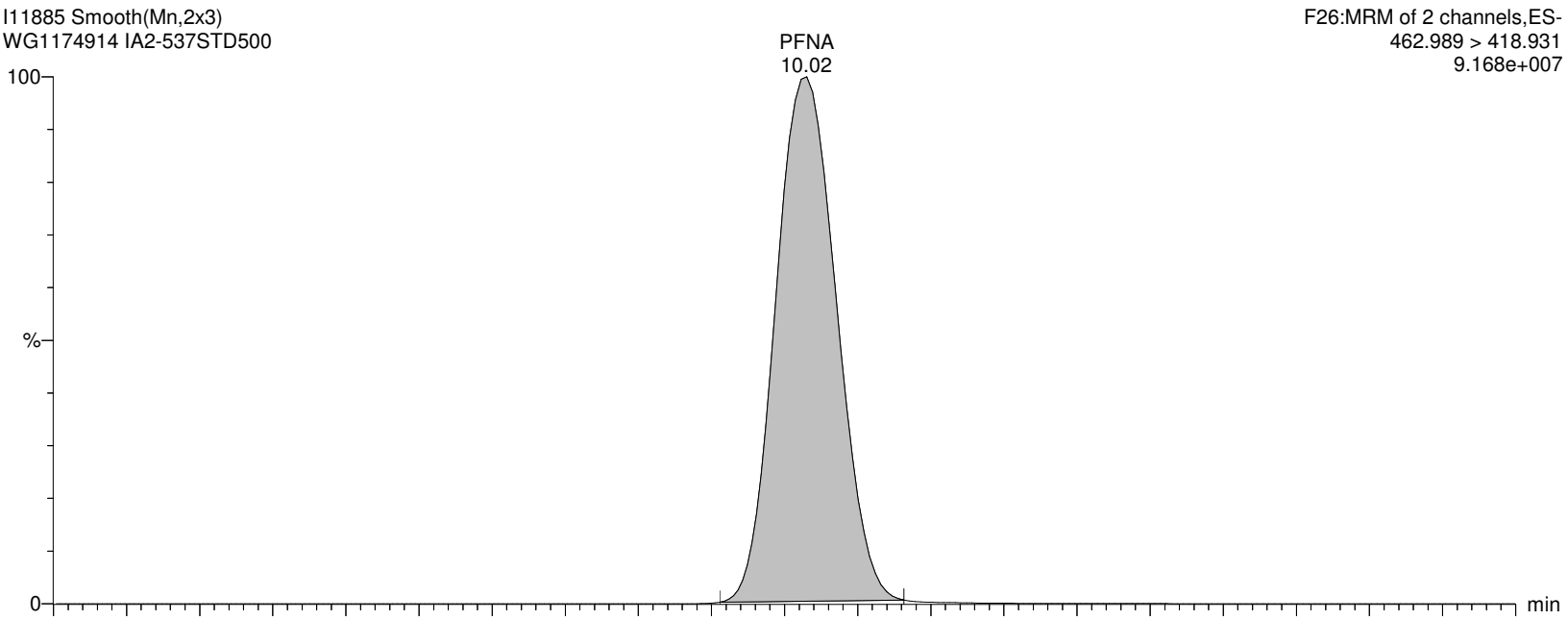

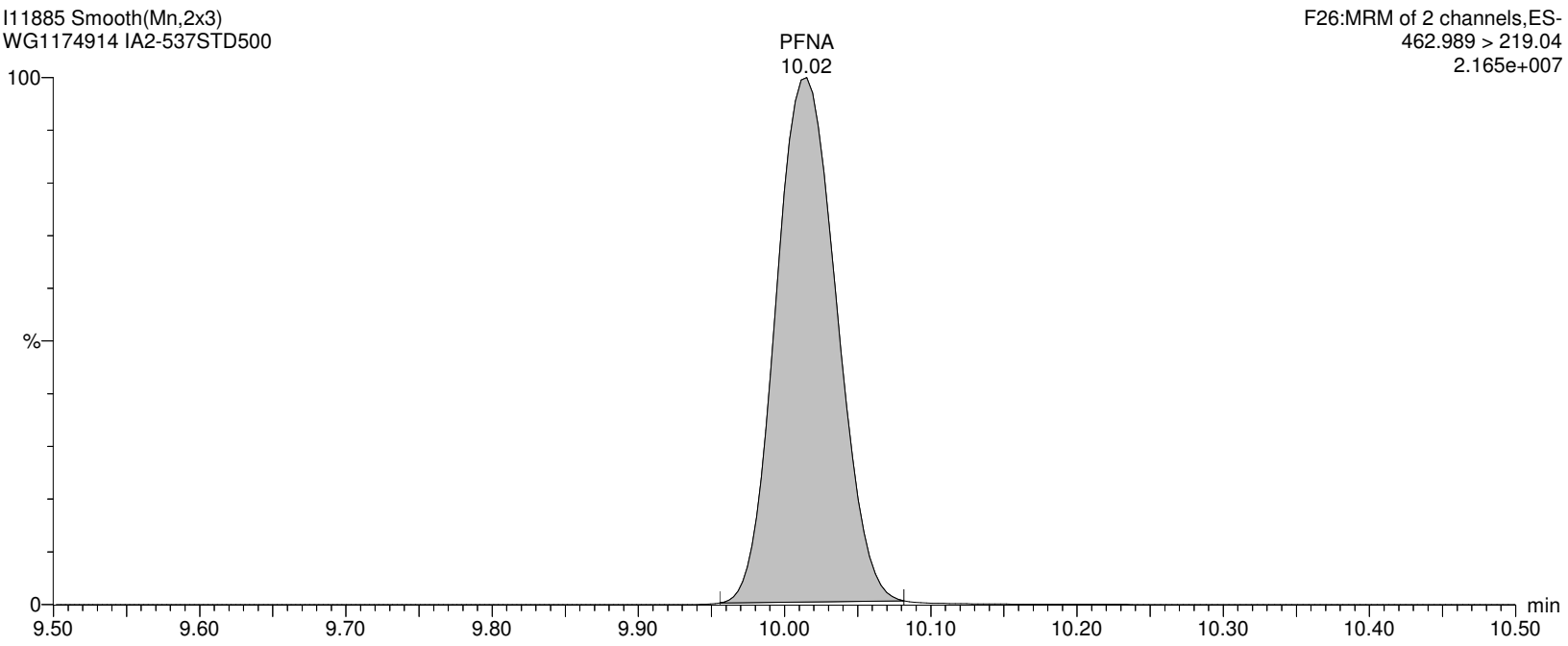

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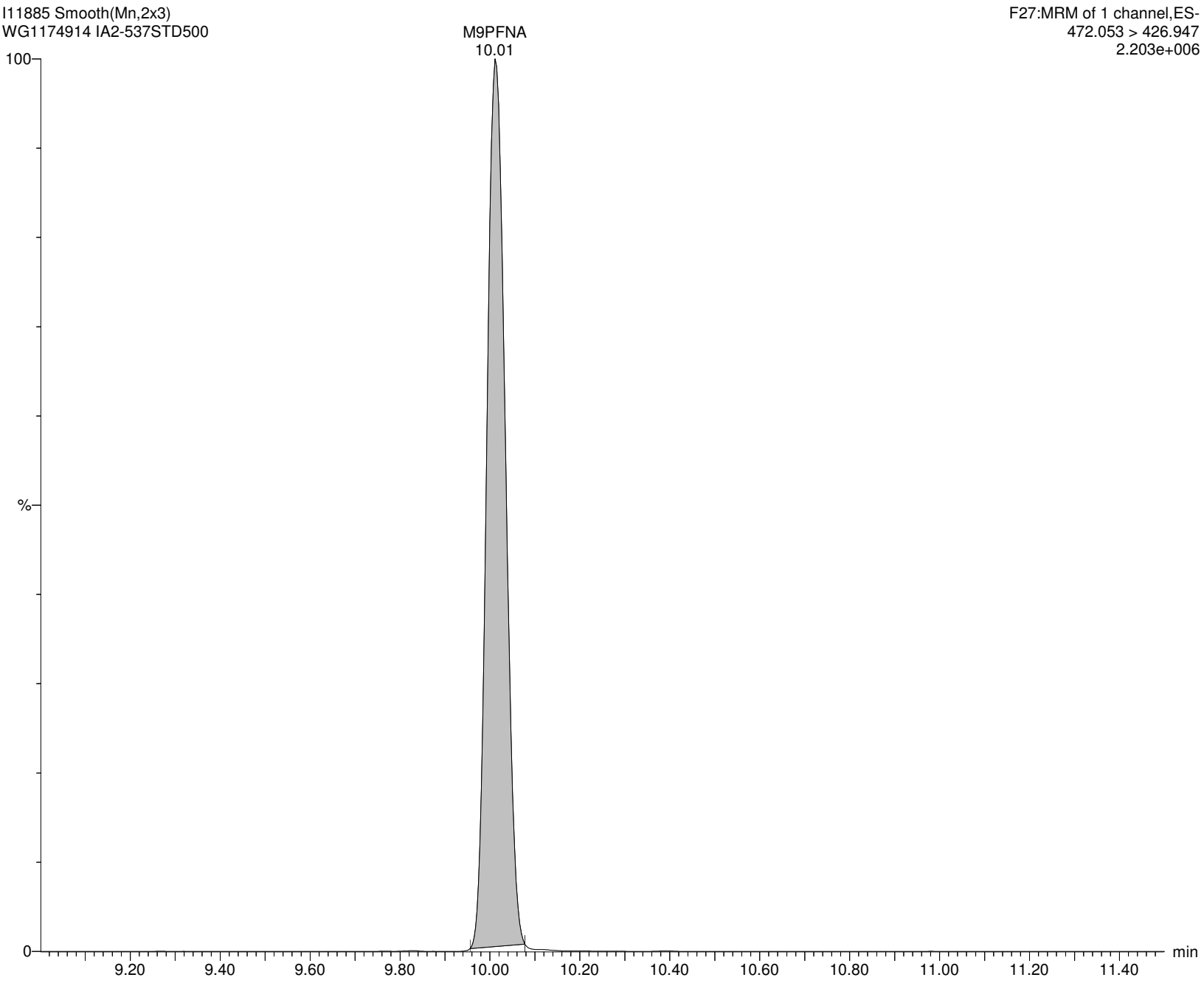

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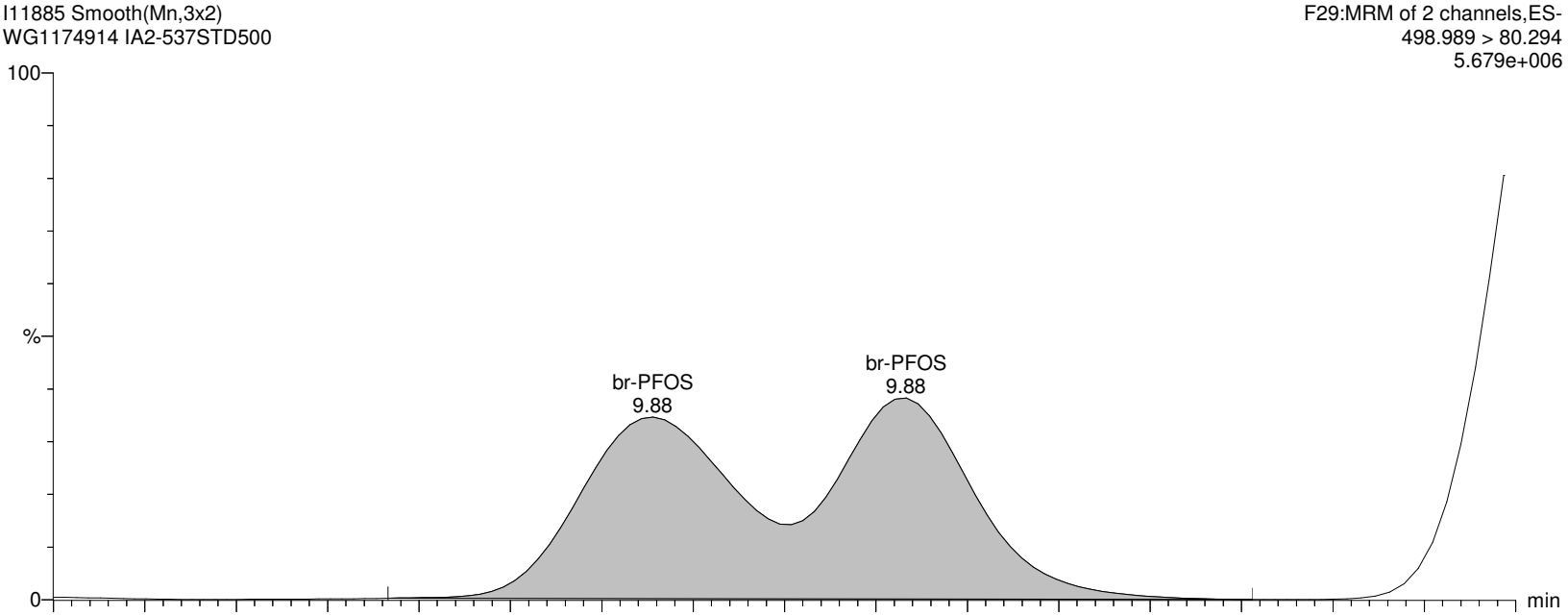

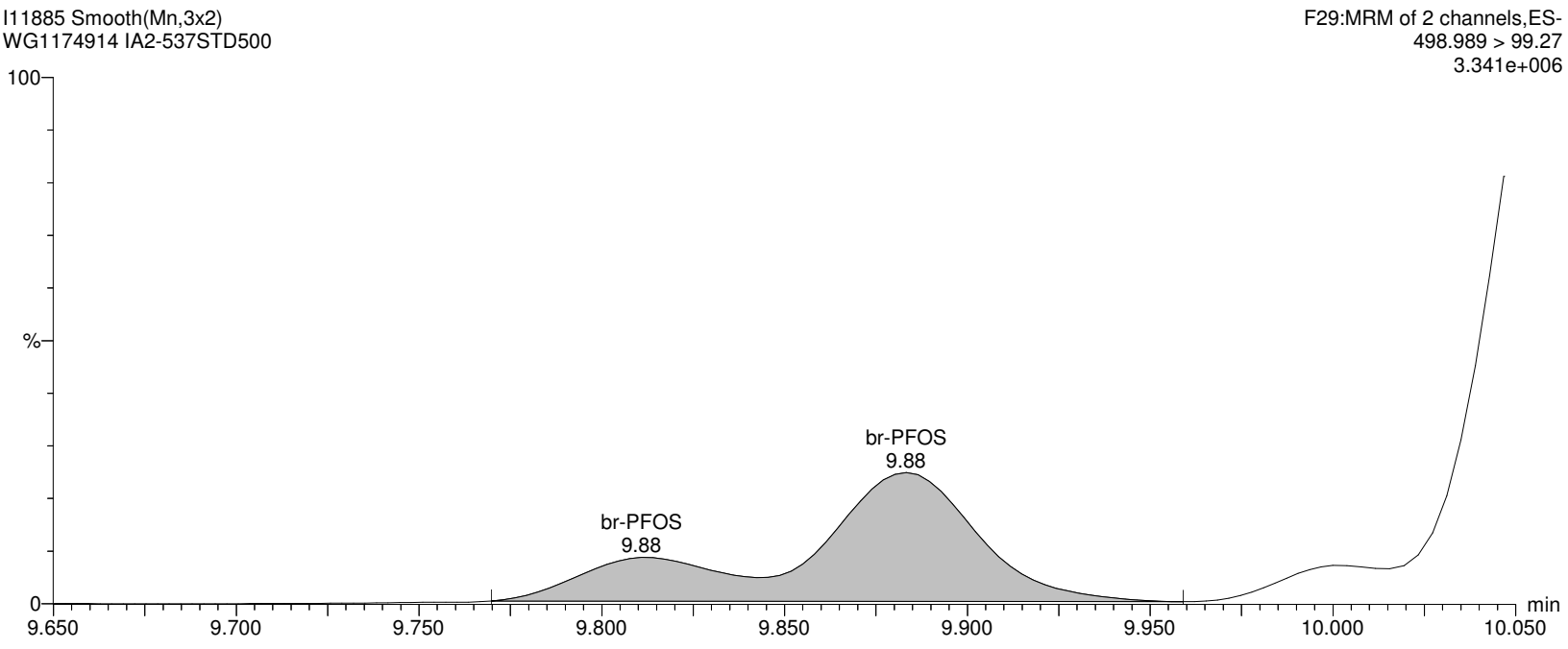

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICAL.qld
Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:29 Eastern Daylight Time

Name: I11885
ID: IA2-537STD500
Date: 01-Nov-2018
Time: 18:58:17
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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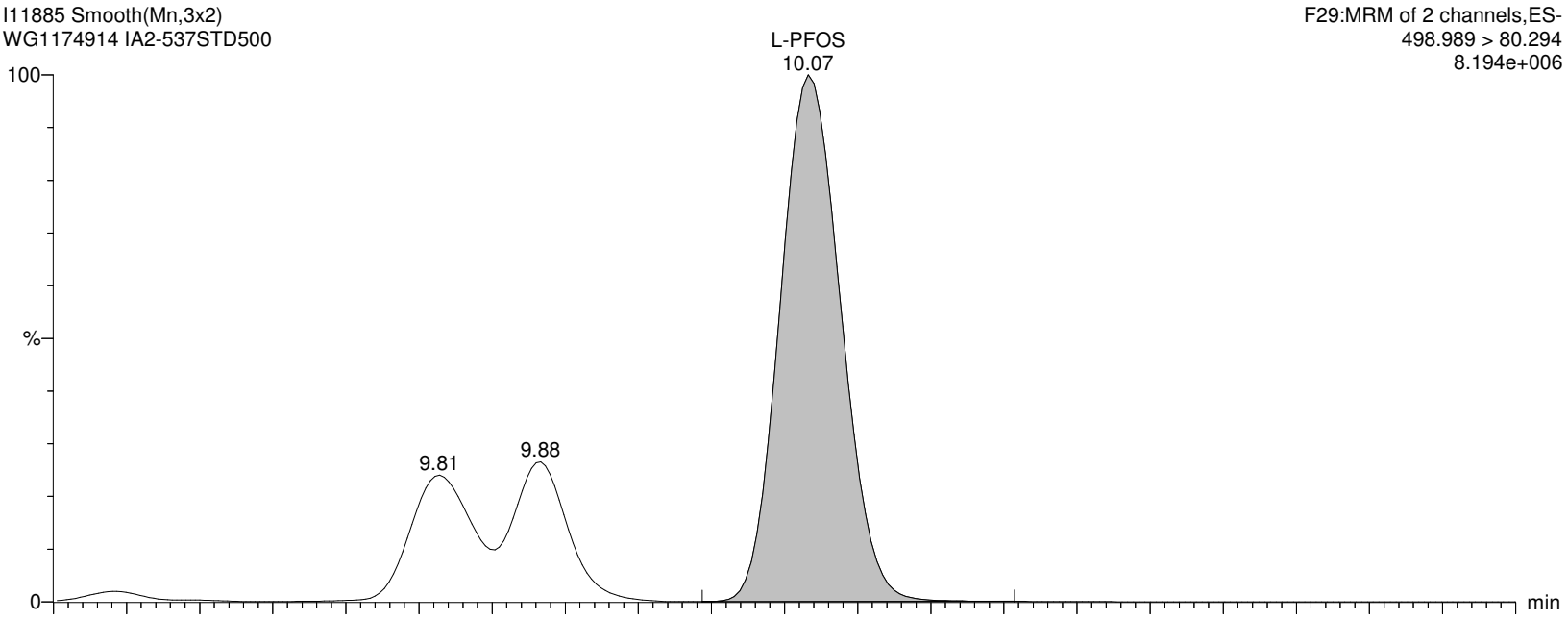

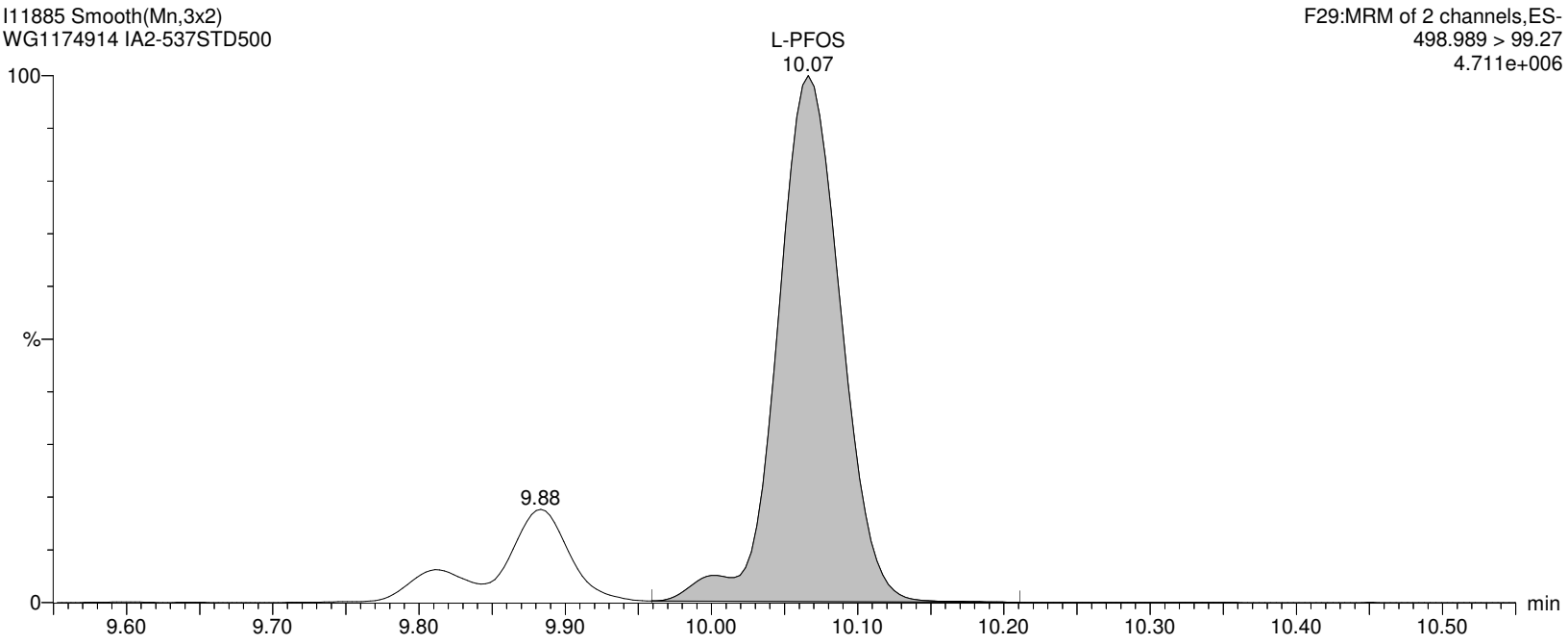

all concentration units in (ng/mL)

Alpha Analytical Inc.
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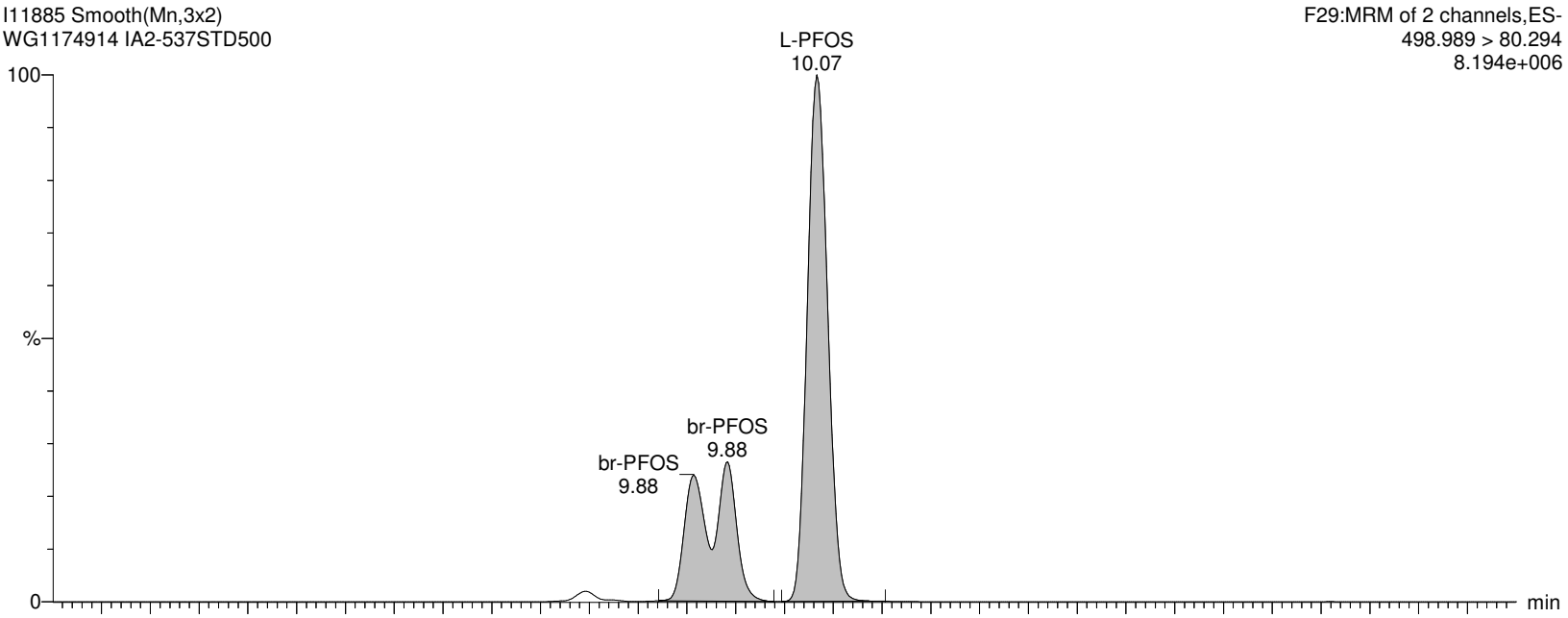

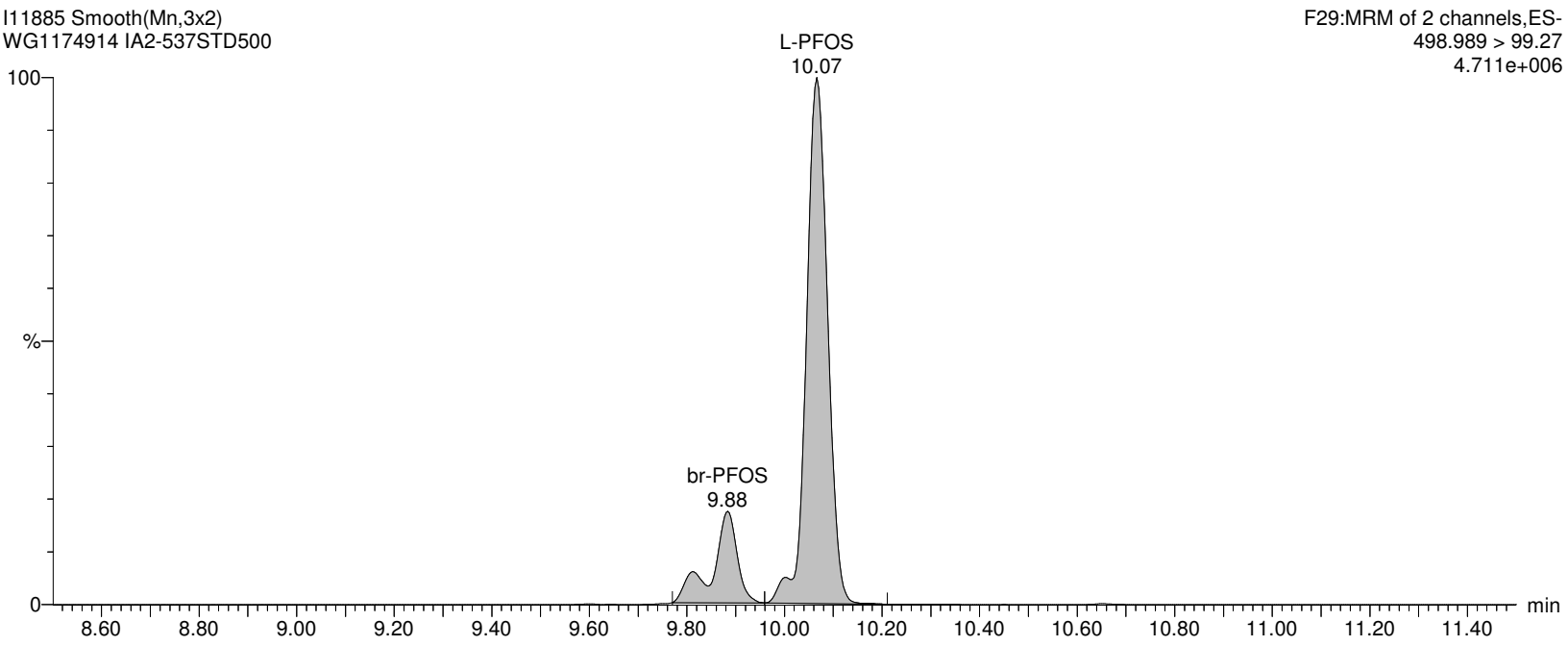

all concentration units in (ng/mL)

Alpha Analytical Inc.
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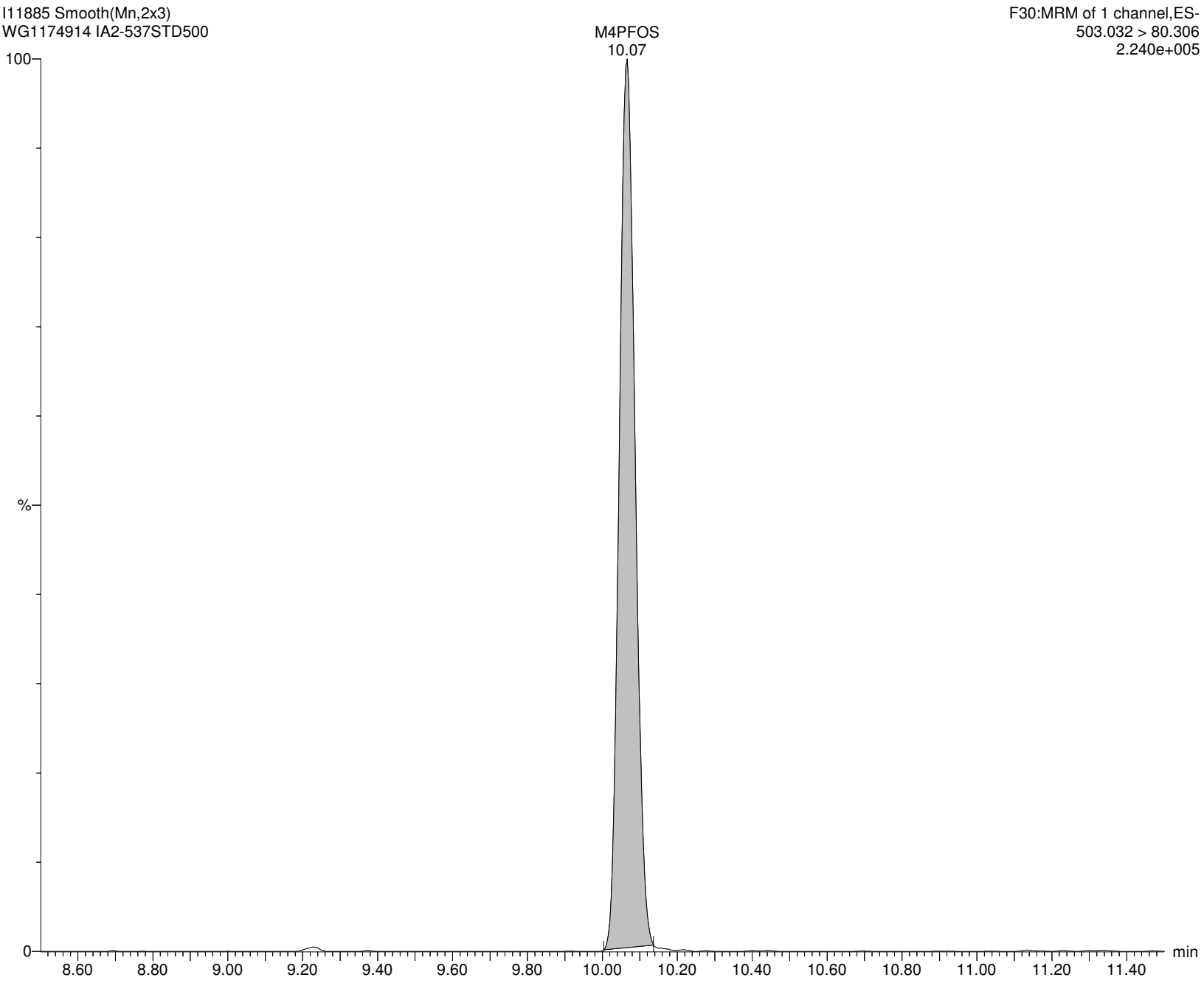

all concentration units in (ng/mL)

Alpha Analytical Inc.
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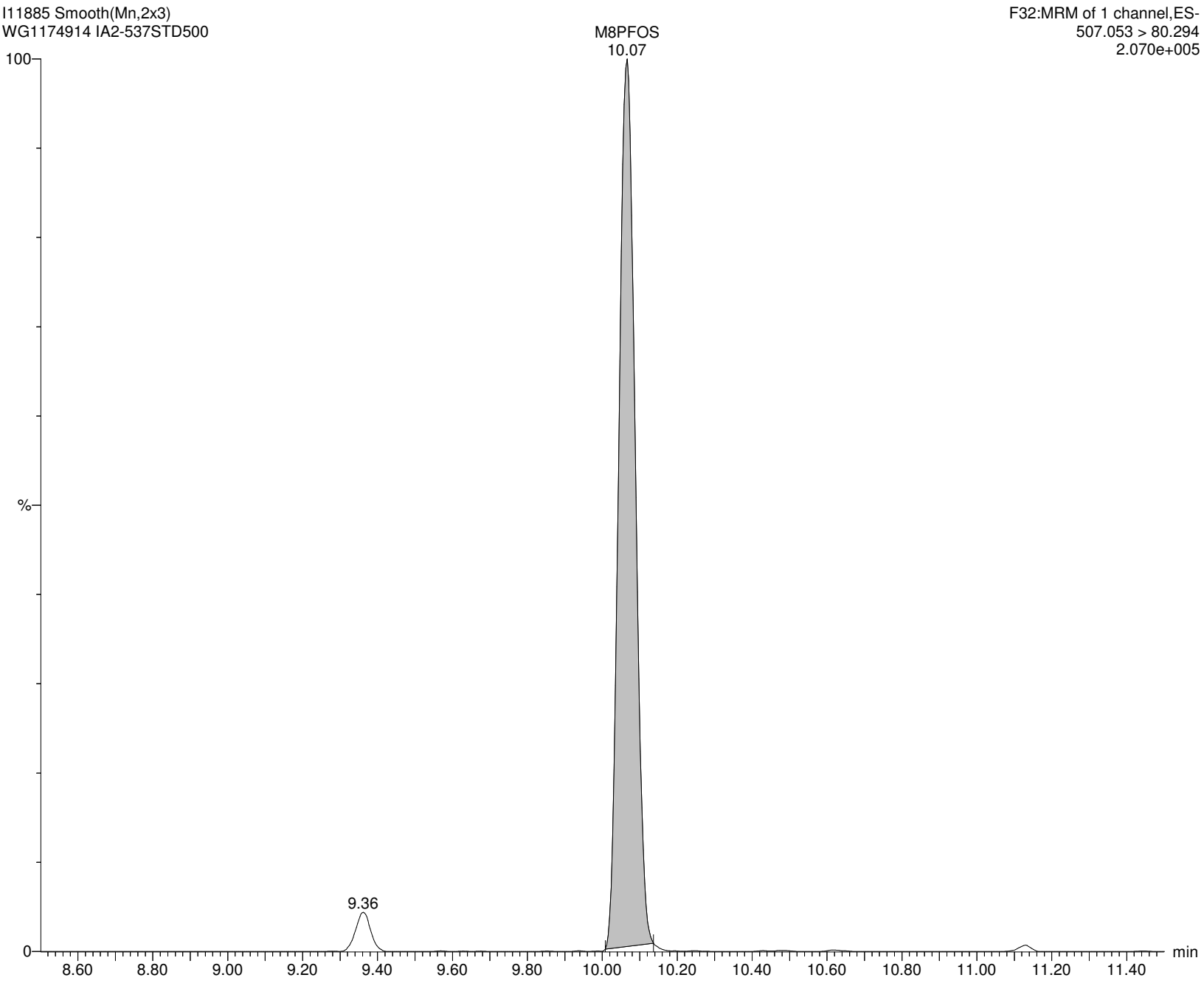

all concentration units in (ng/mL)

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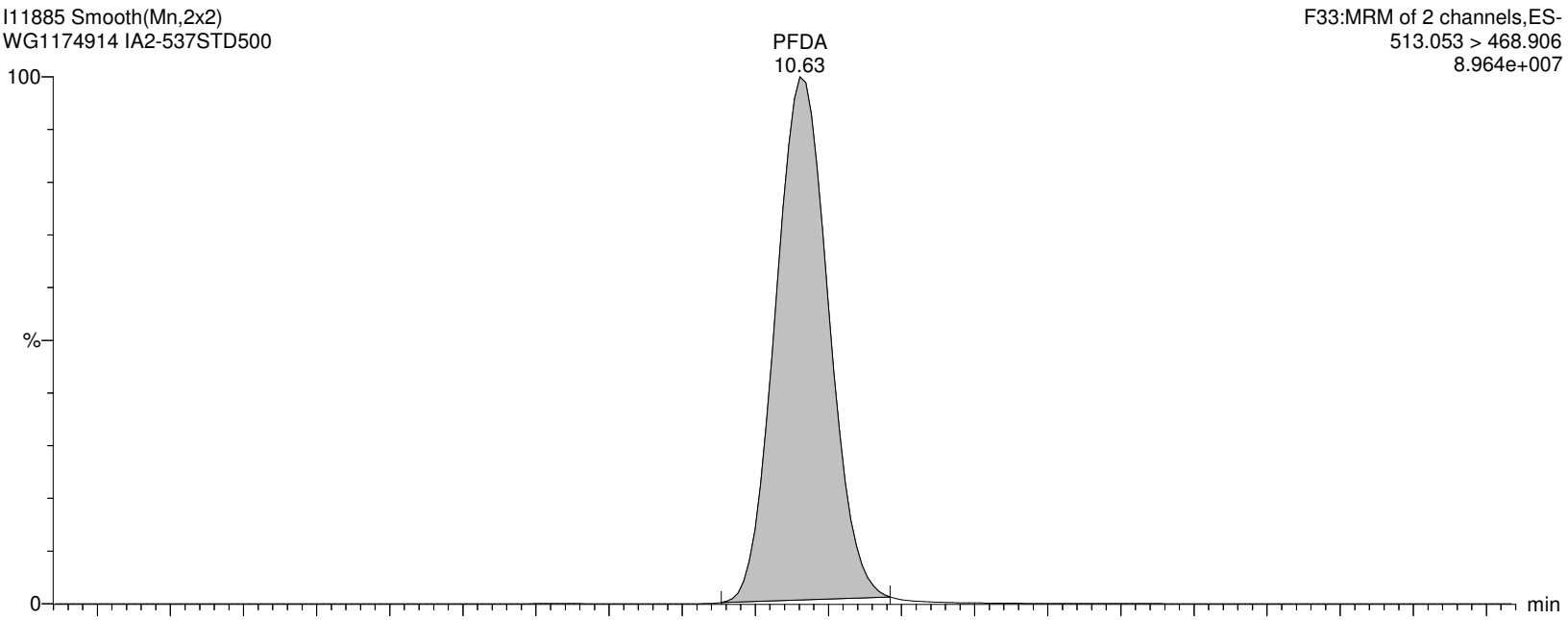

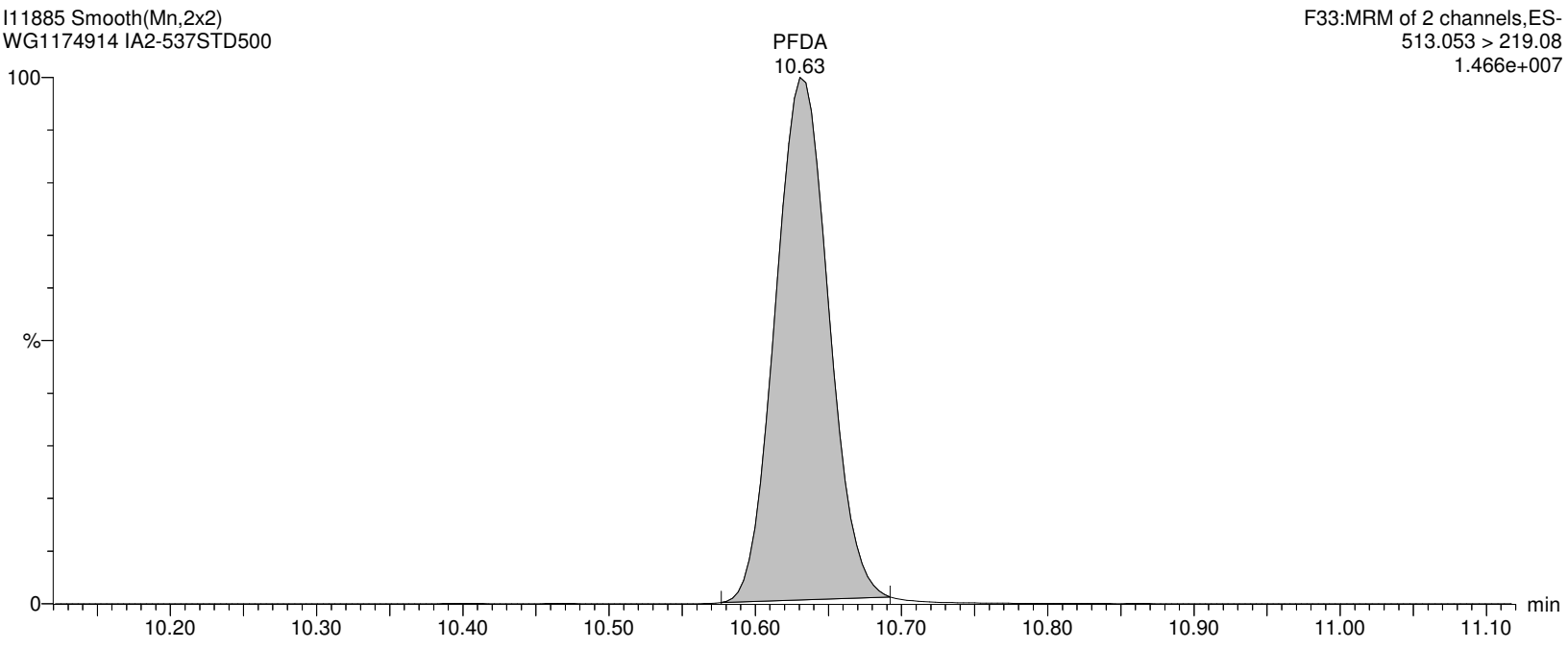

all concentration units in (ng/mL)

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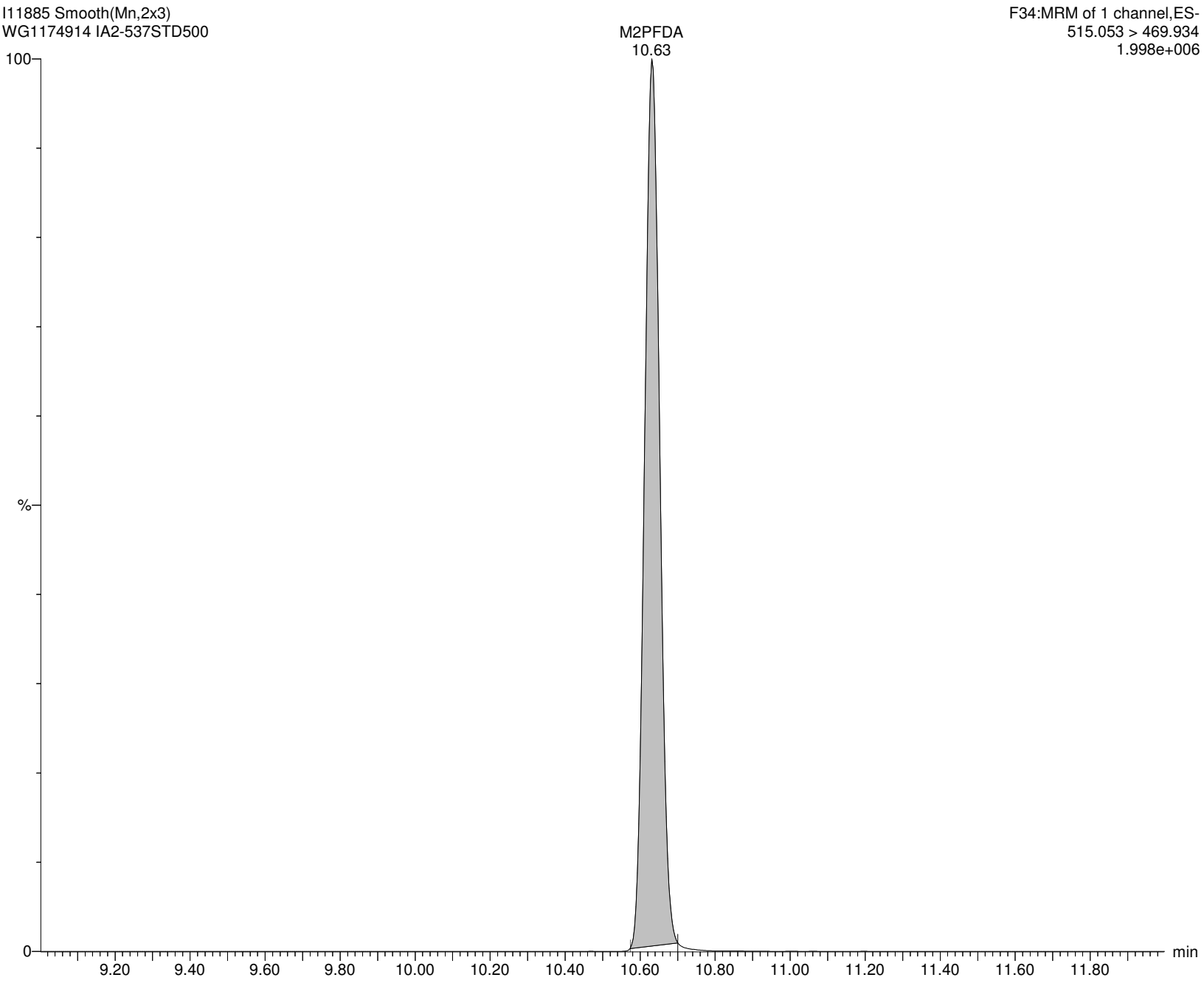

all concentration units in (ng/mL)

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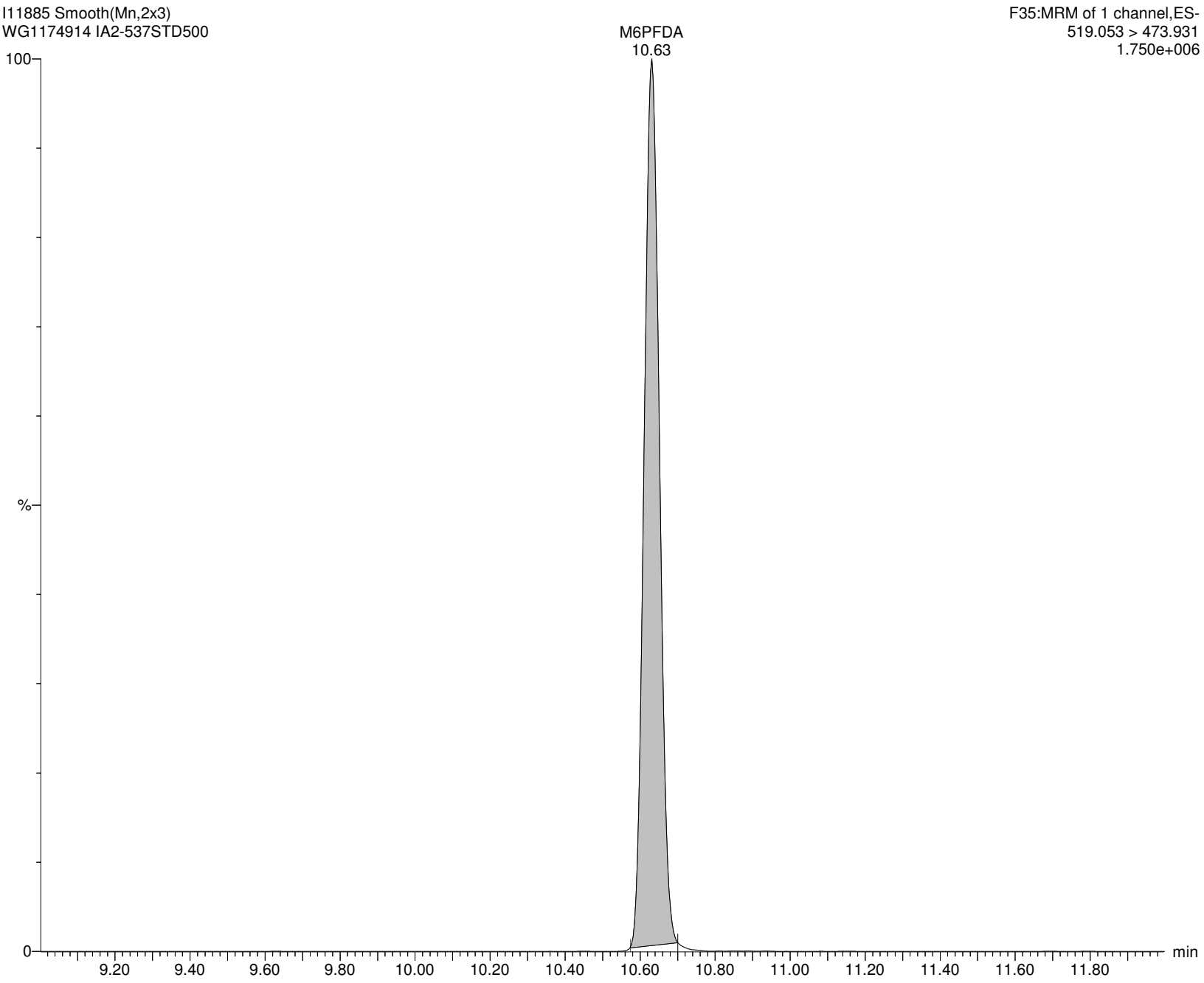

all concentration units in (ng/mL)

Alpha Analytical Inc.
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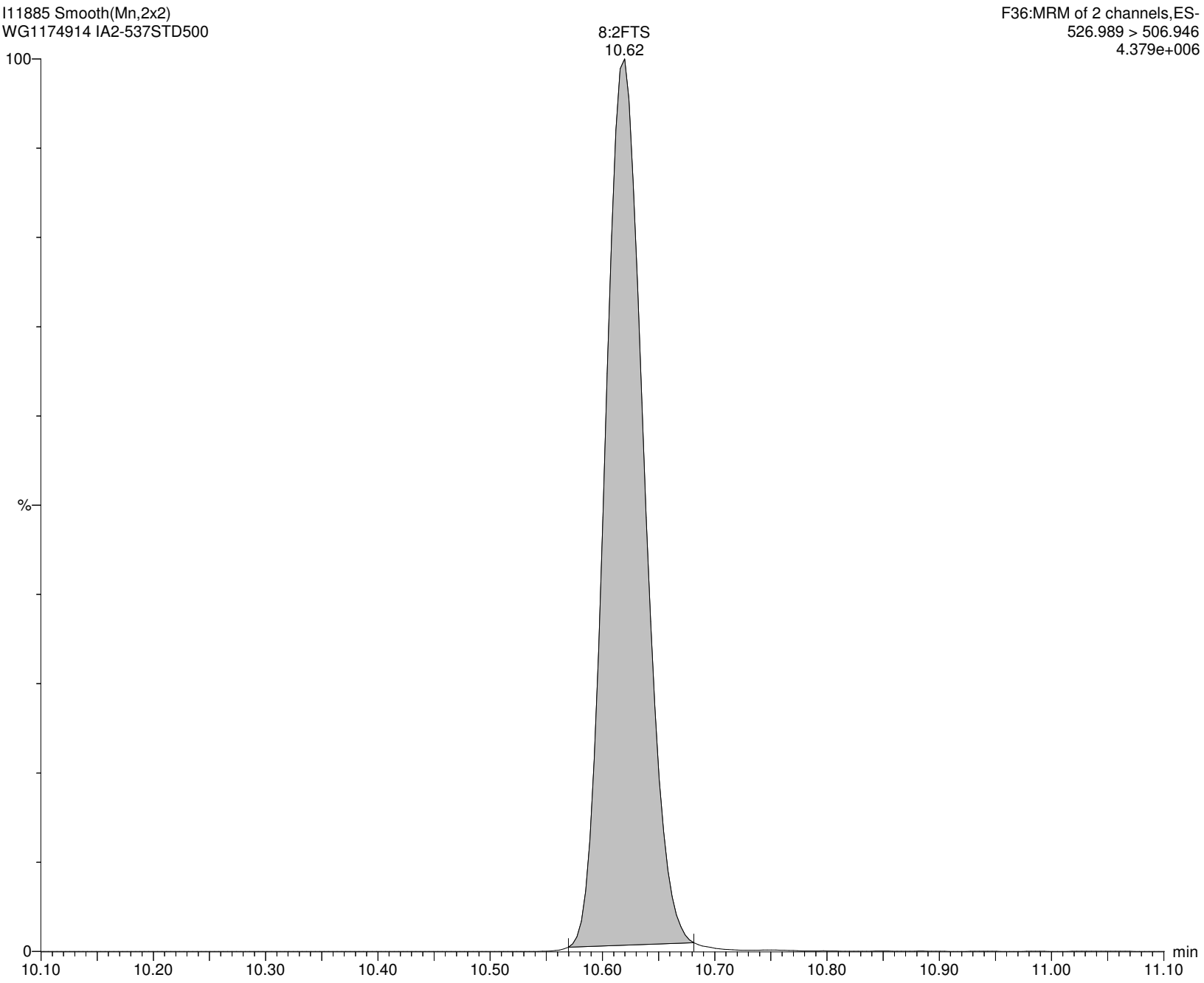
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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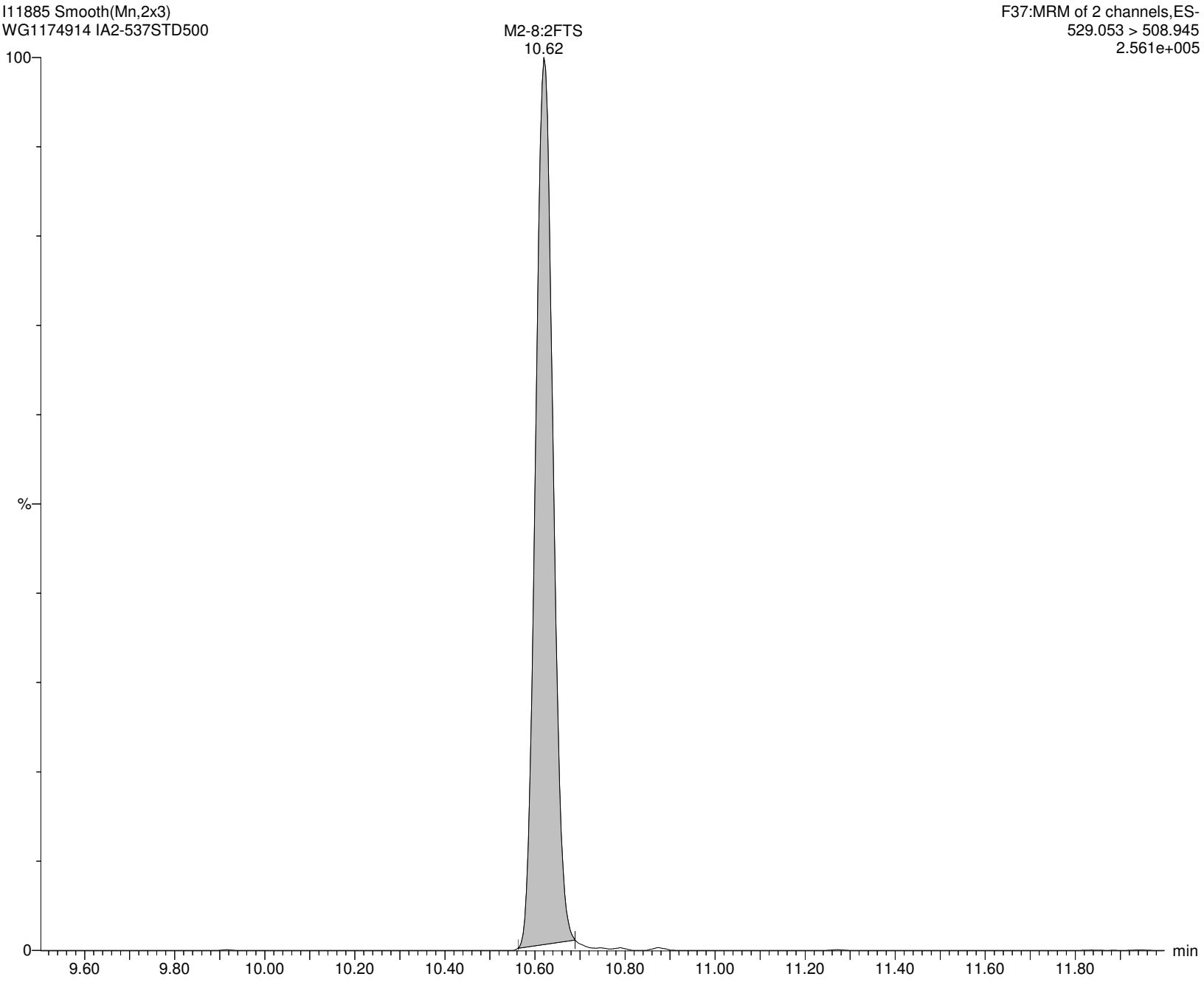

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I11885
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Date: 01-Nov-2018
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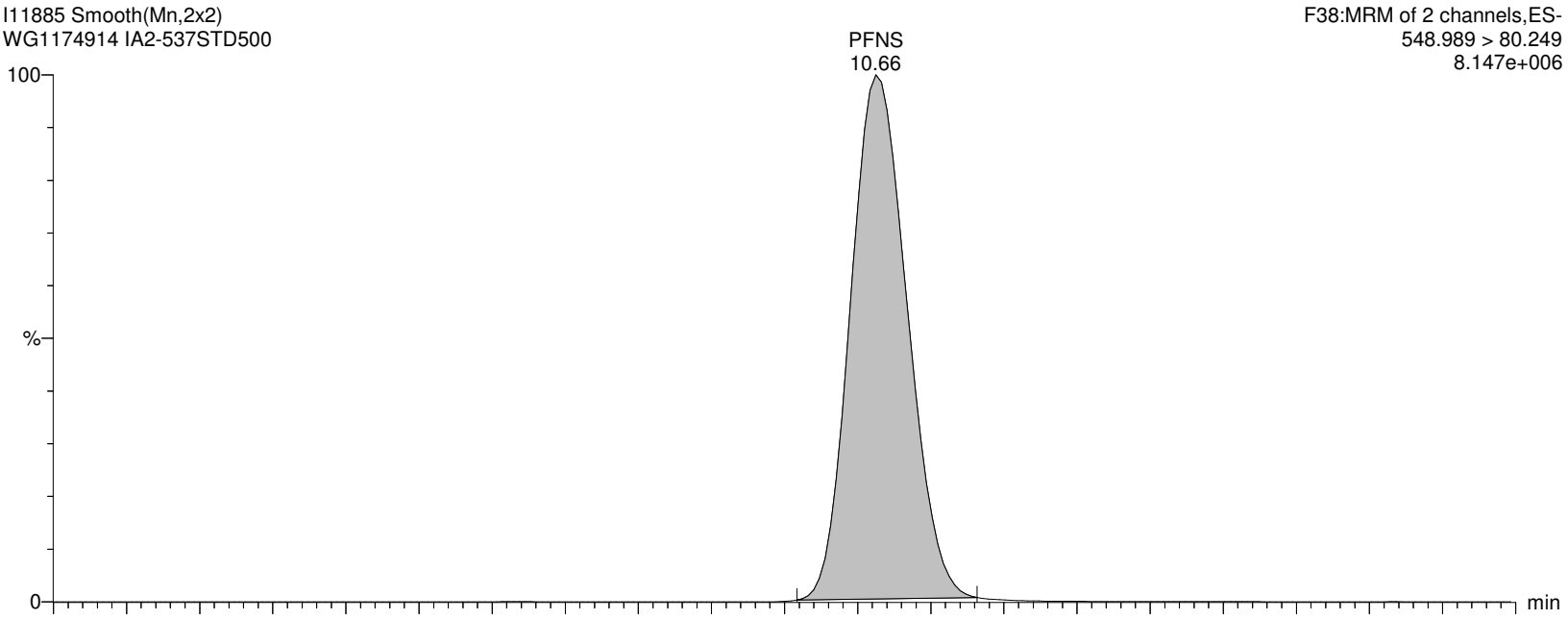

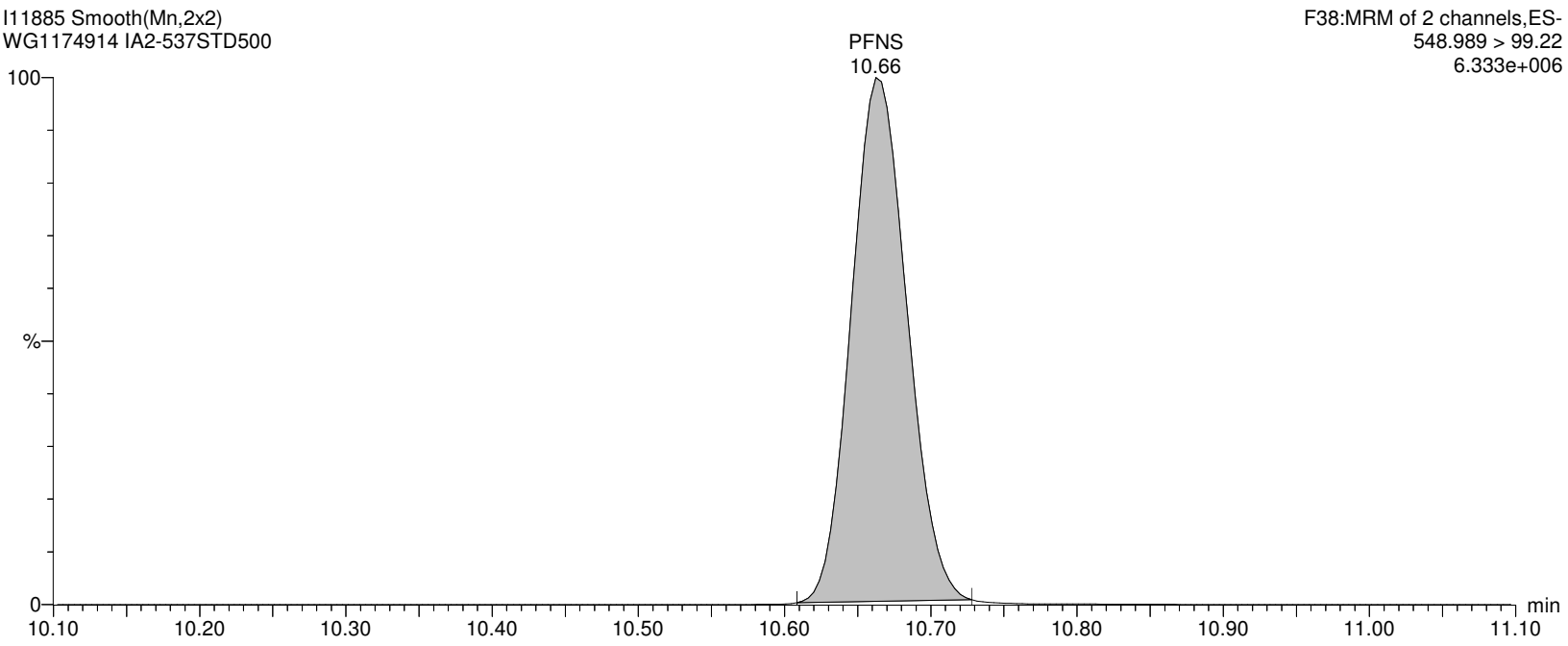

all concentration units in (ng/mL)

Alpha Analytical Inc.
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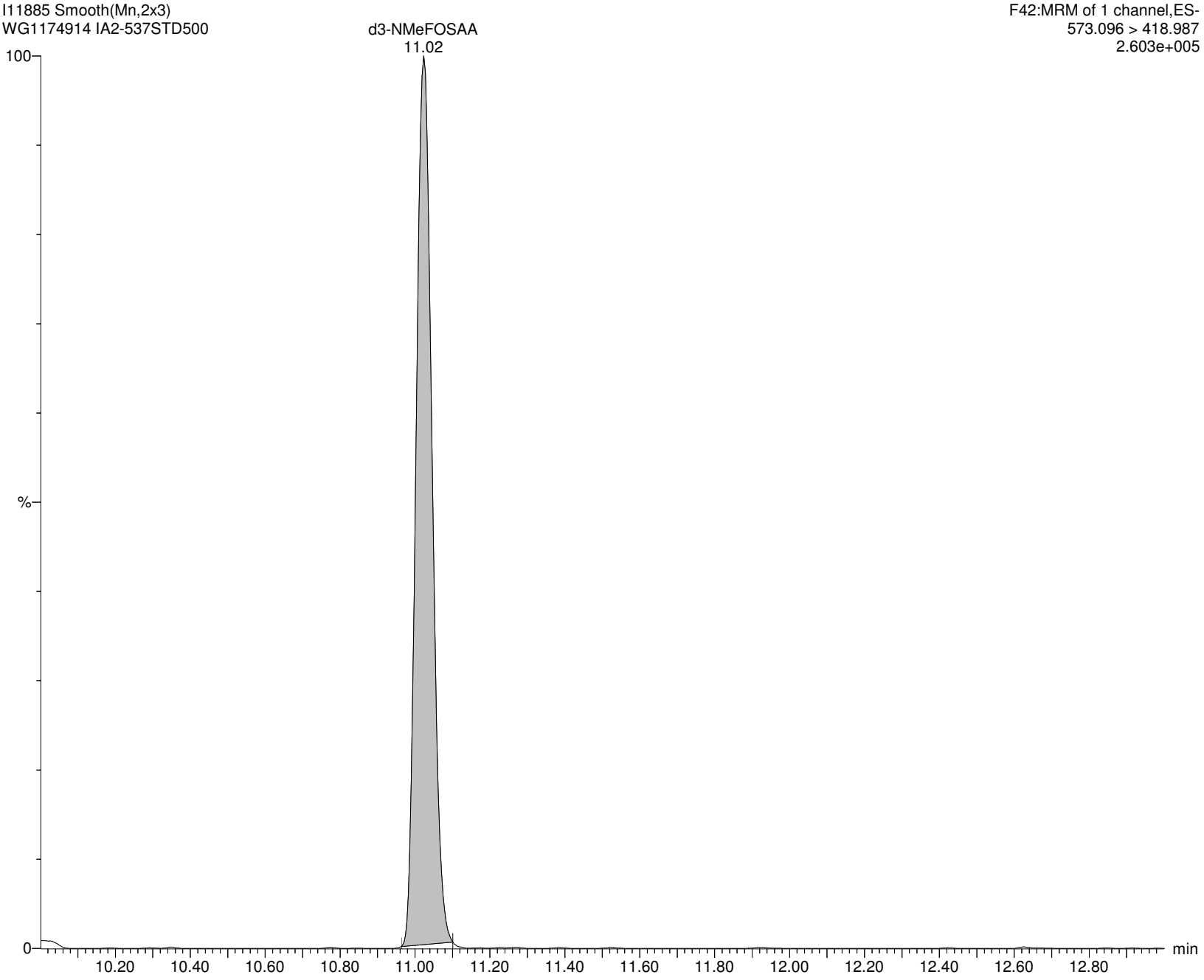

all concentration units in (ng/mL)

Alpha Analytical Inc.
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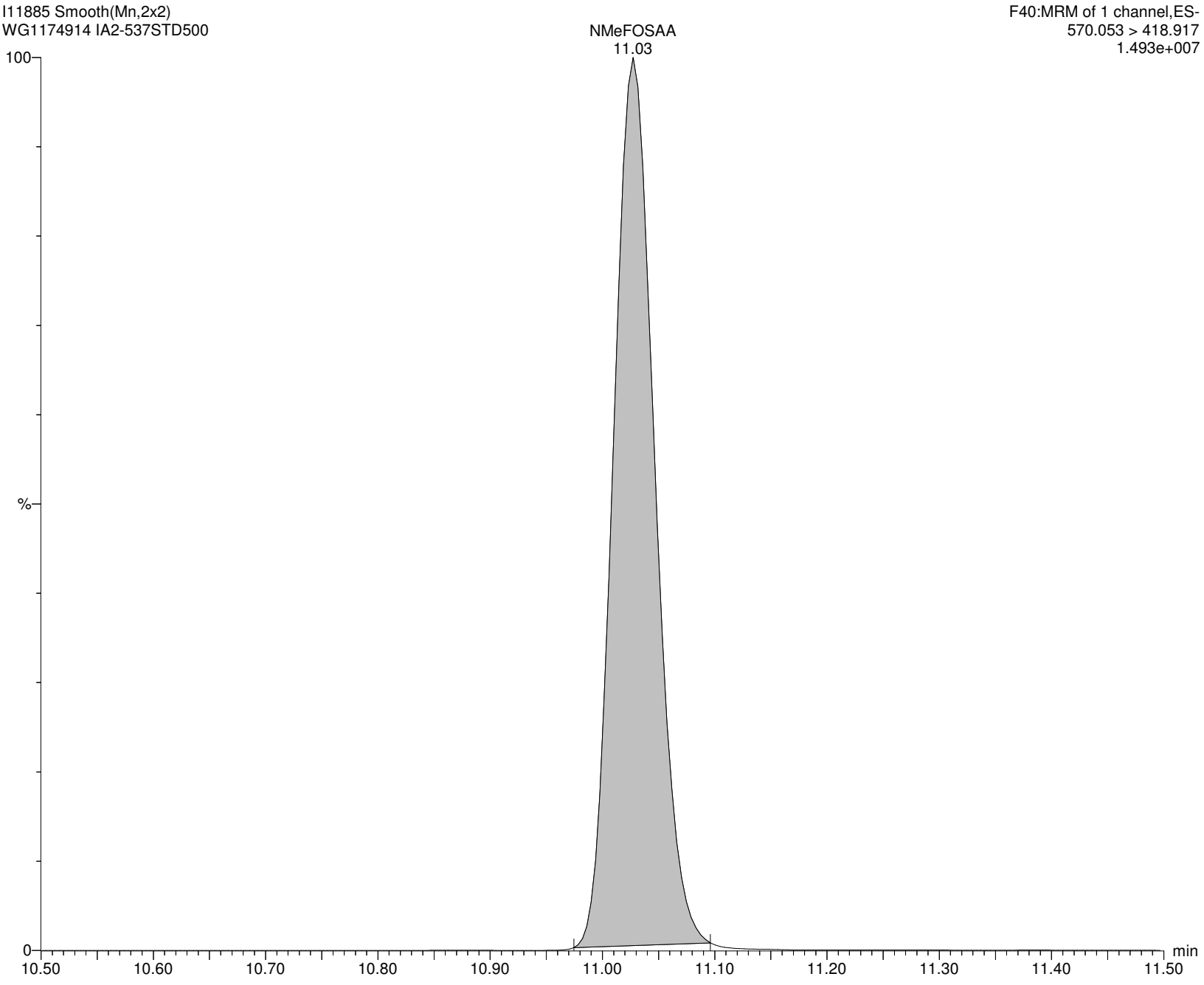

all concentration units in (ng/mL)

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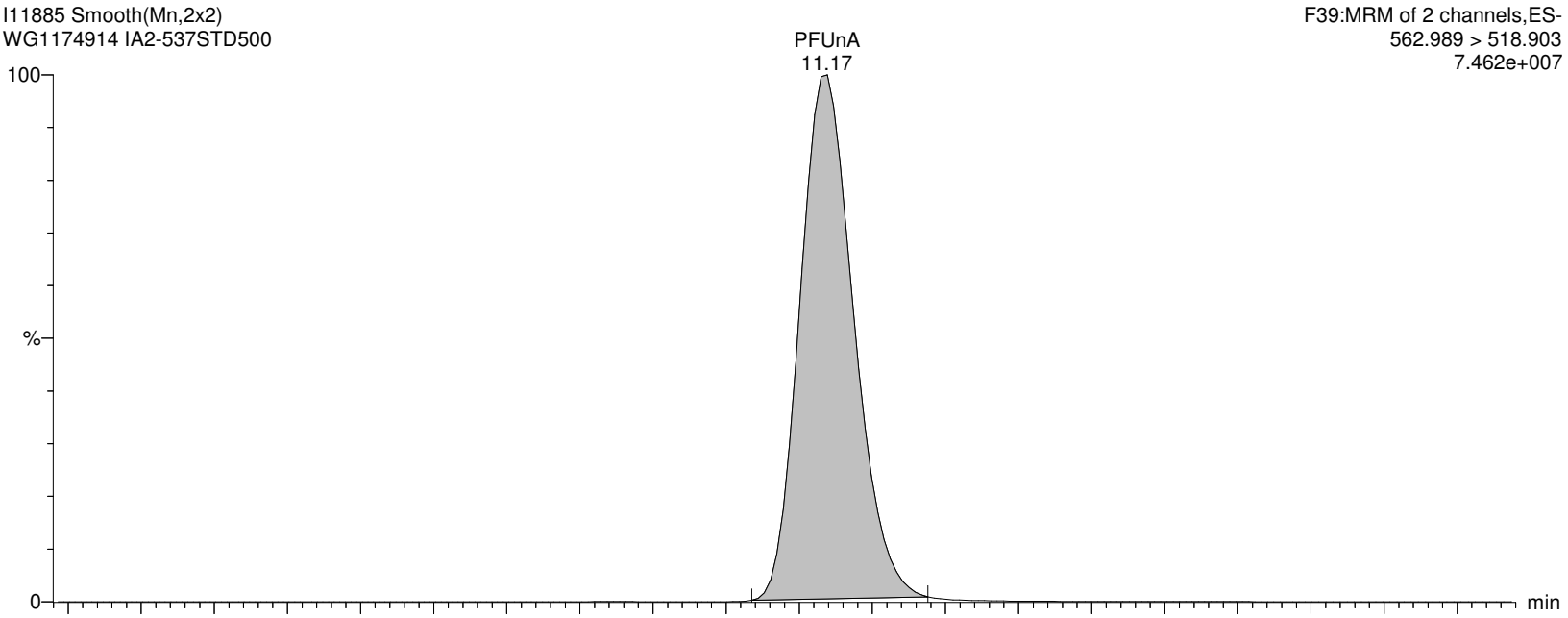

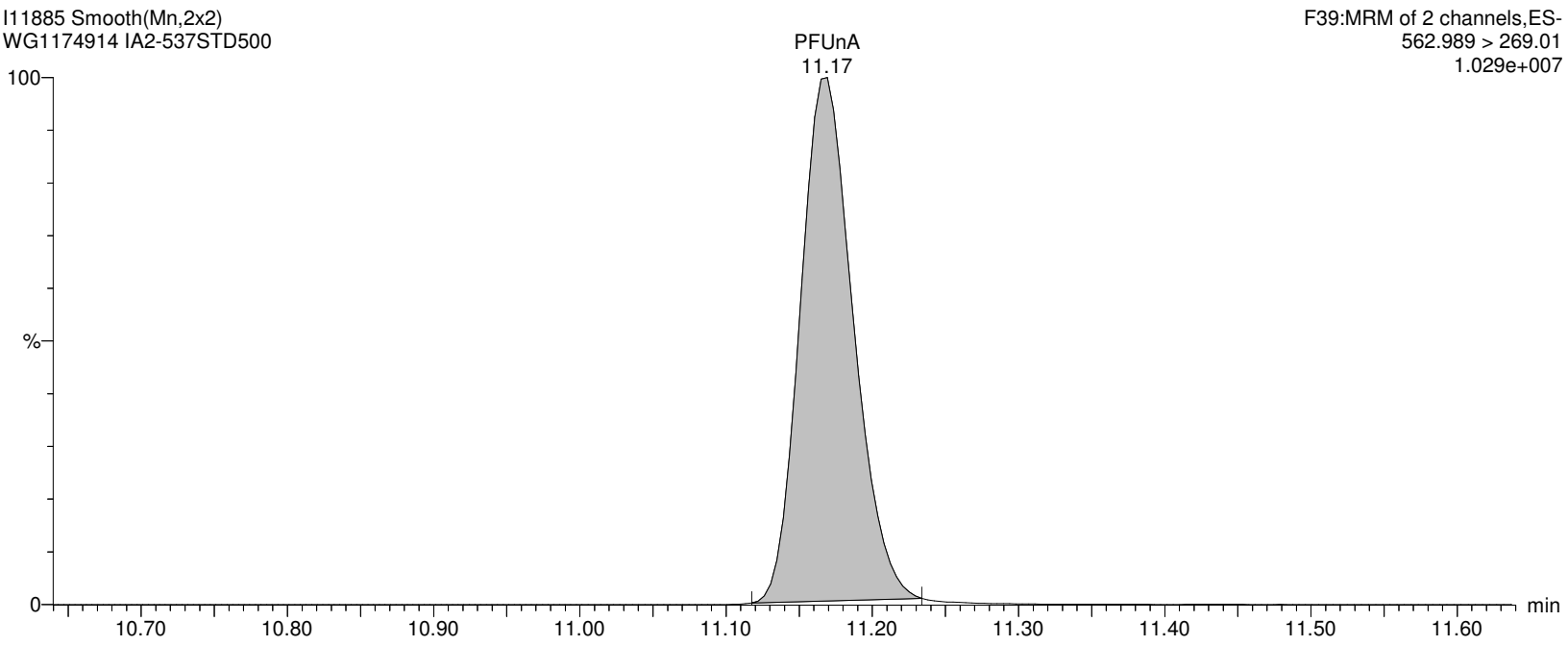

all concentration units in (ng/mL)

Alpha Analytical Inc.
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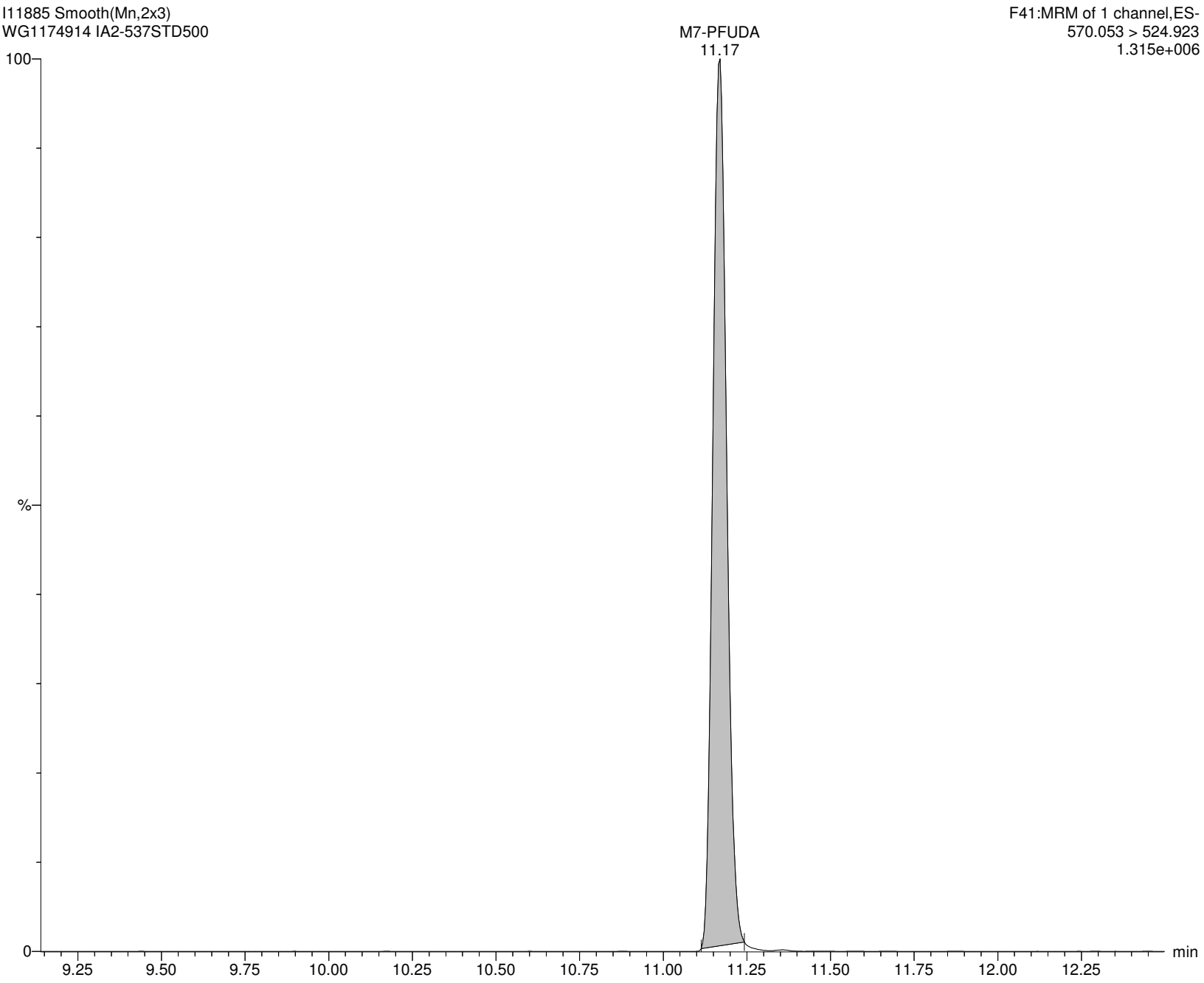

all concentration units in (ng/mL)

Alpha Analytical Inc.
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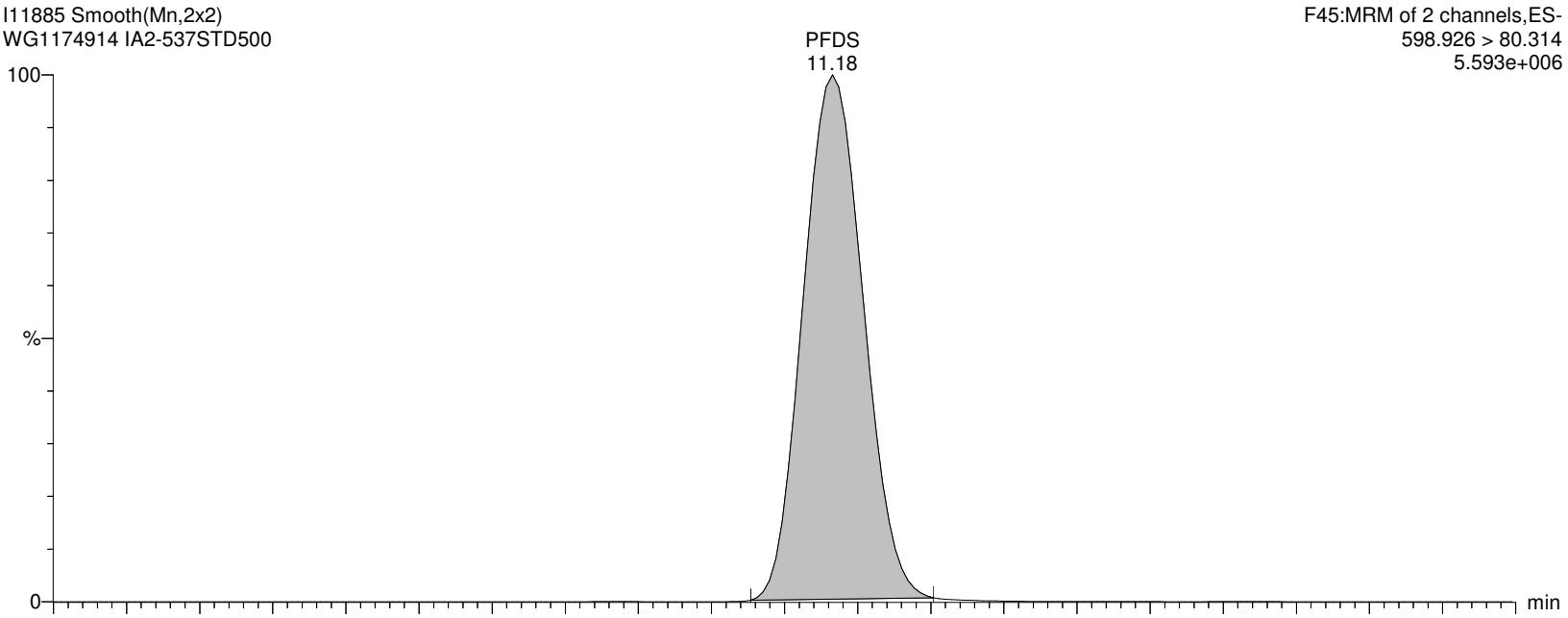

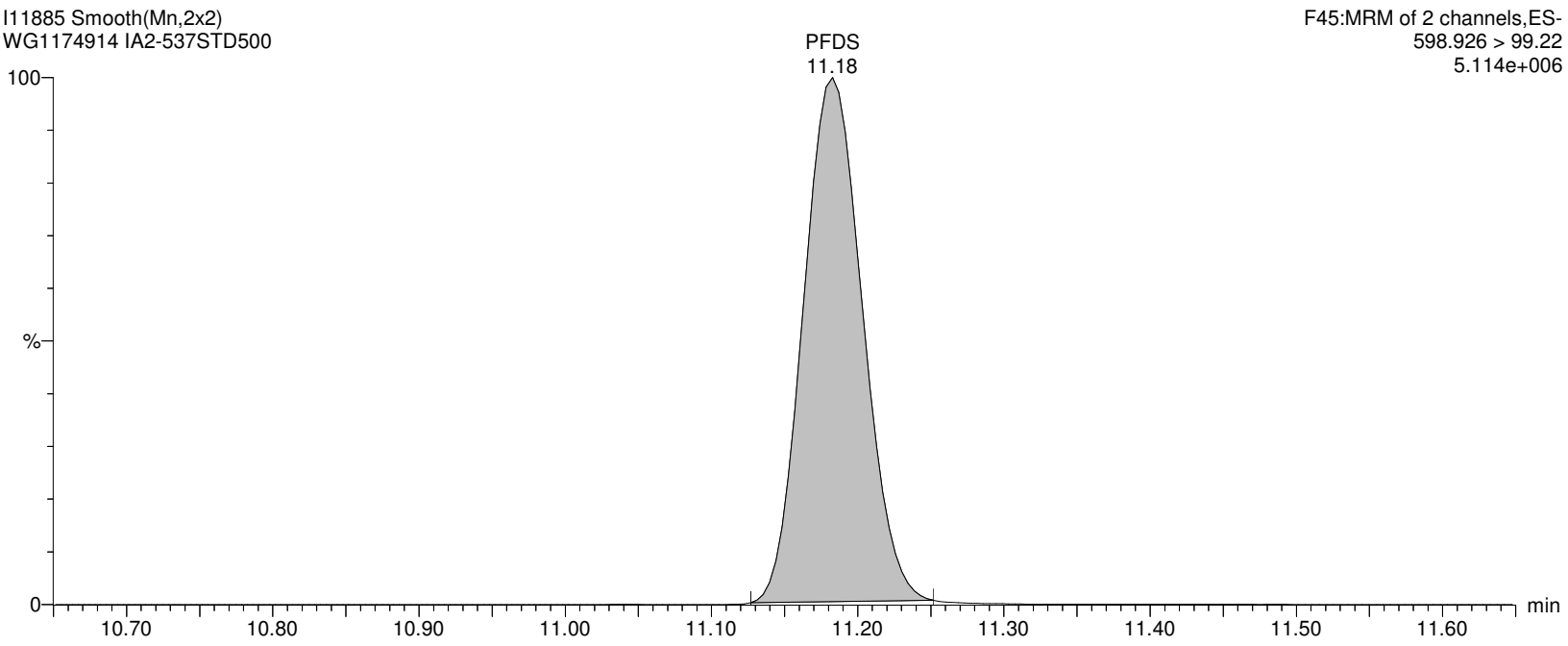

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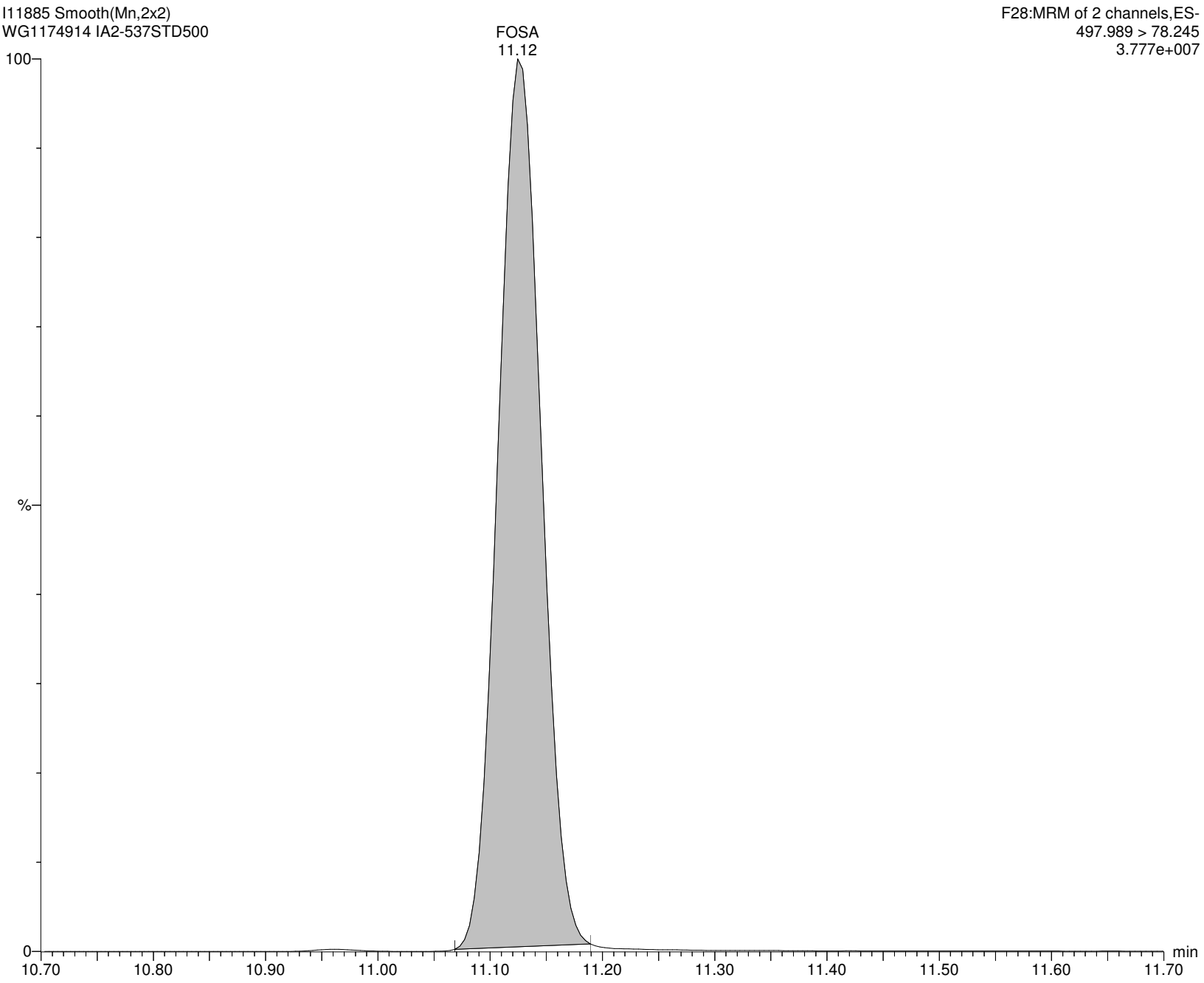

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Time: 18:58:17
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,2
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Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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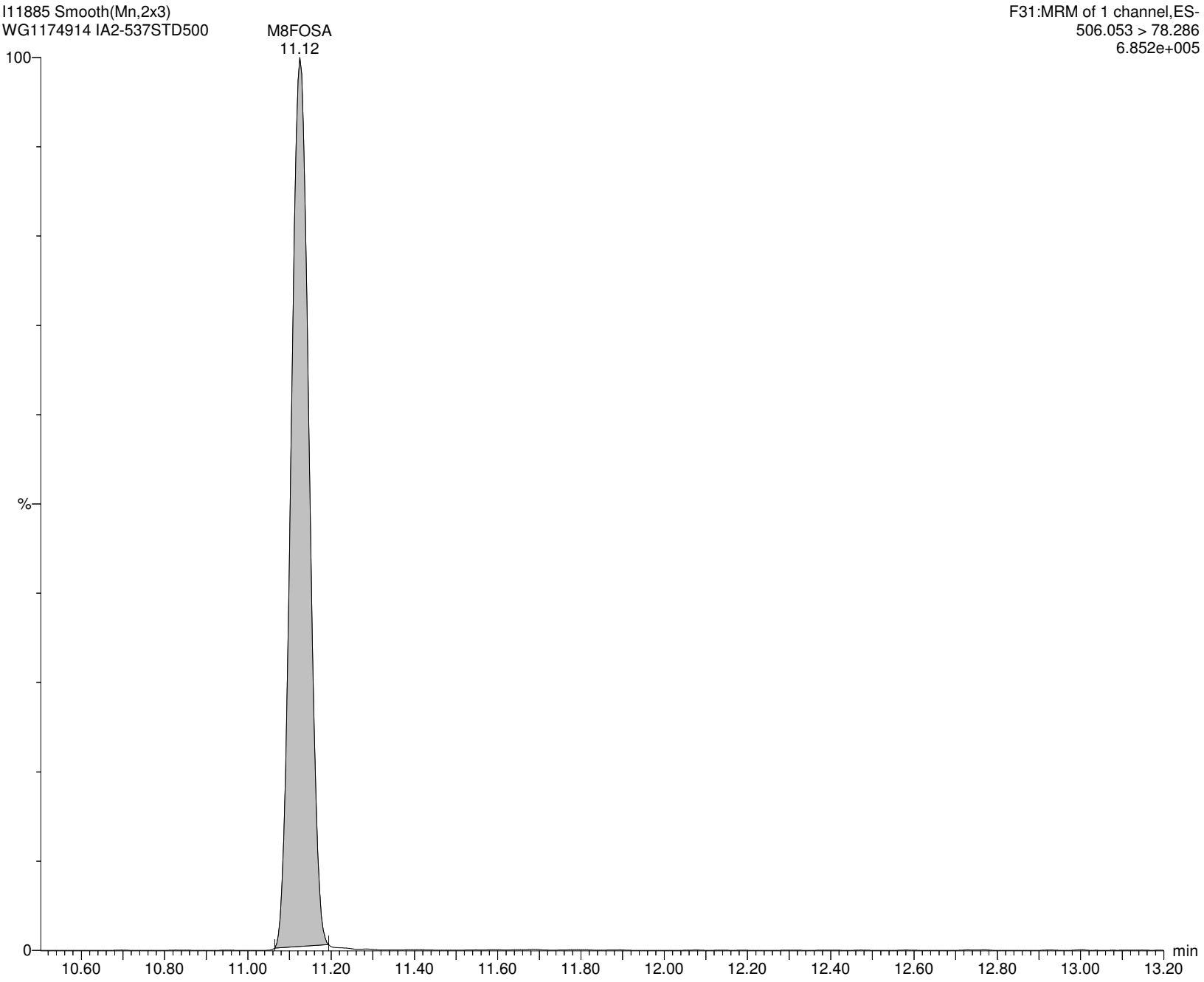

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, November 01, 2018 20:29:35 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:30:29 Eastern Daylight Time

Name: I11885
ID: IA2-537STD500
Date: 01-Nov-2018
Time: 18:58:17
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User: LCMS01:AJ
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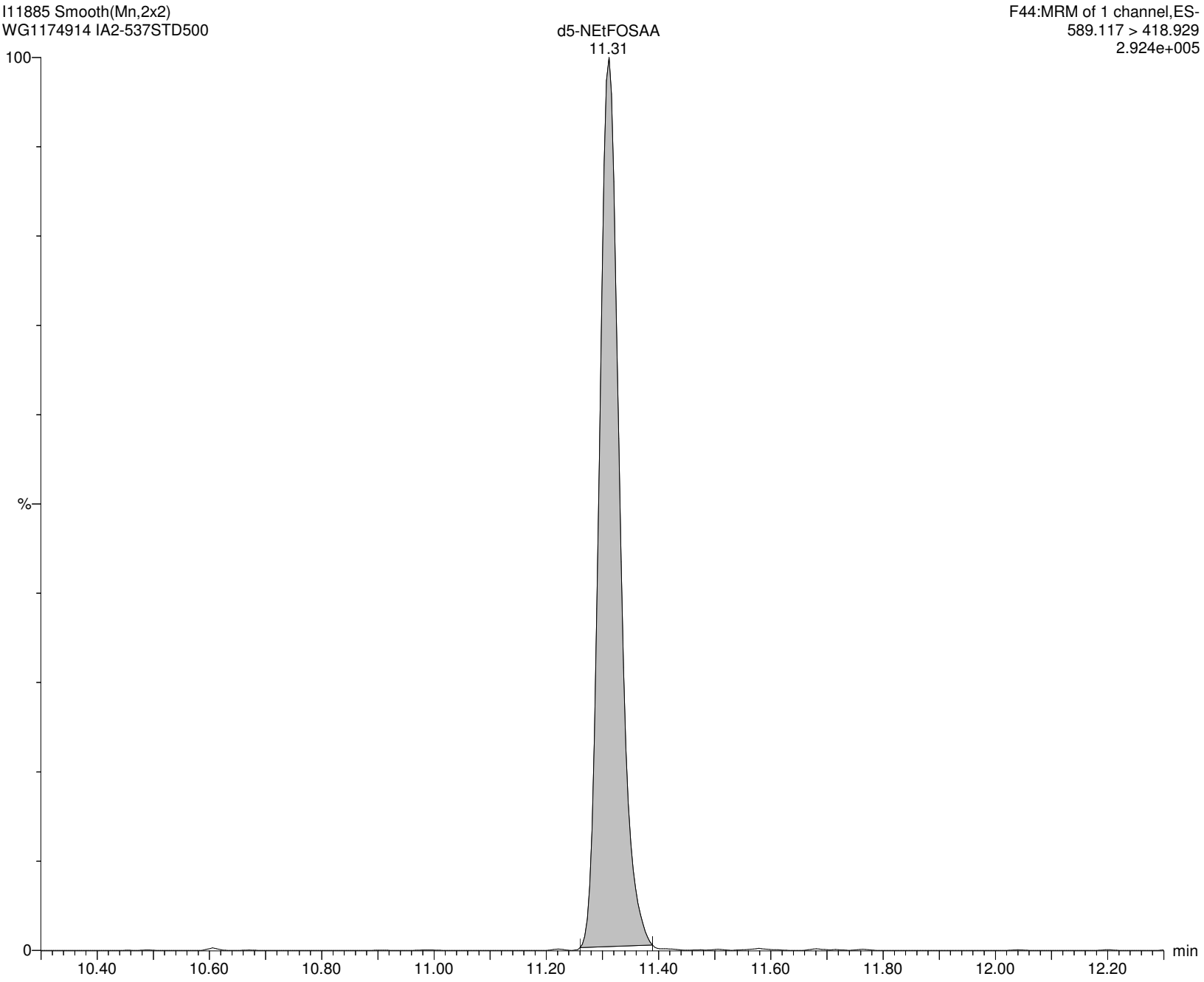

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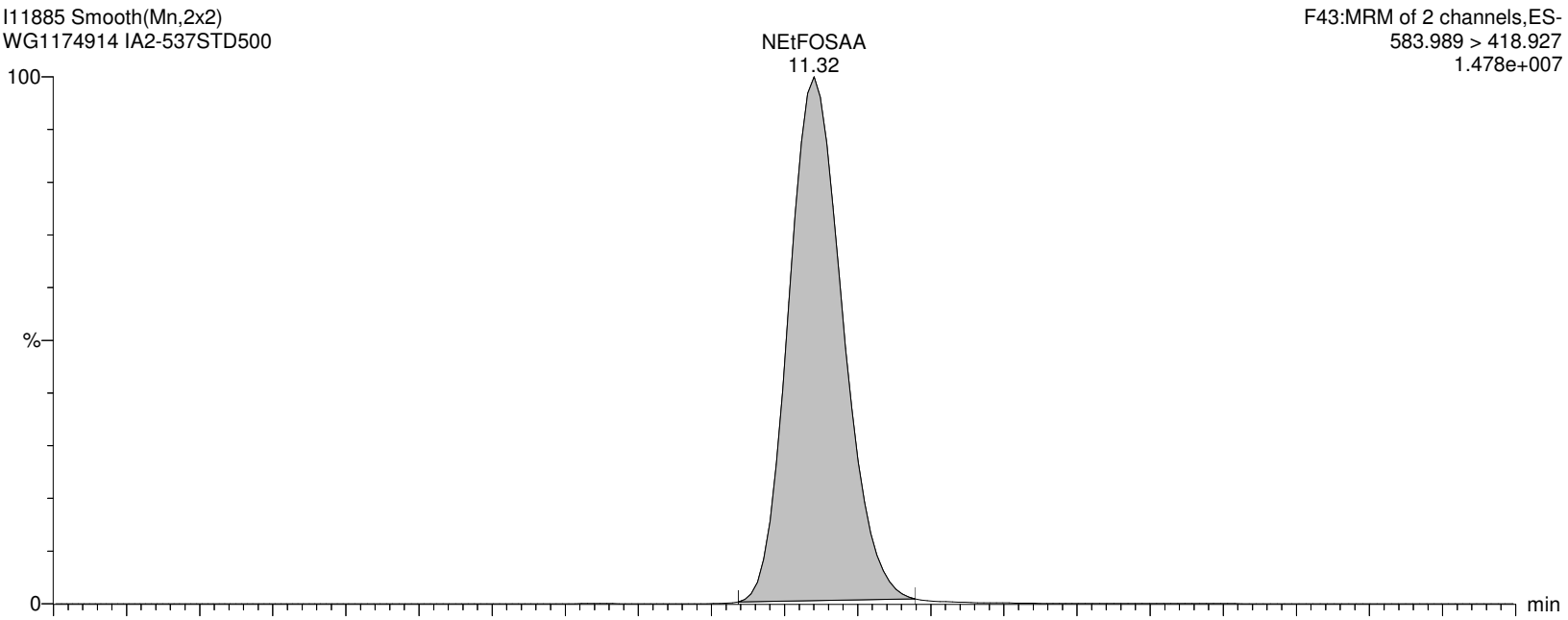

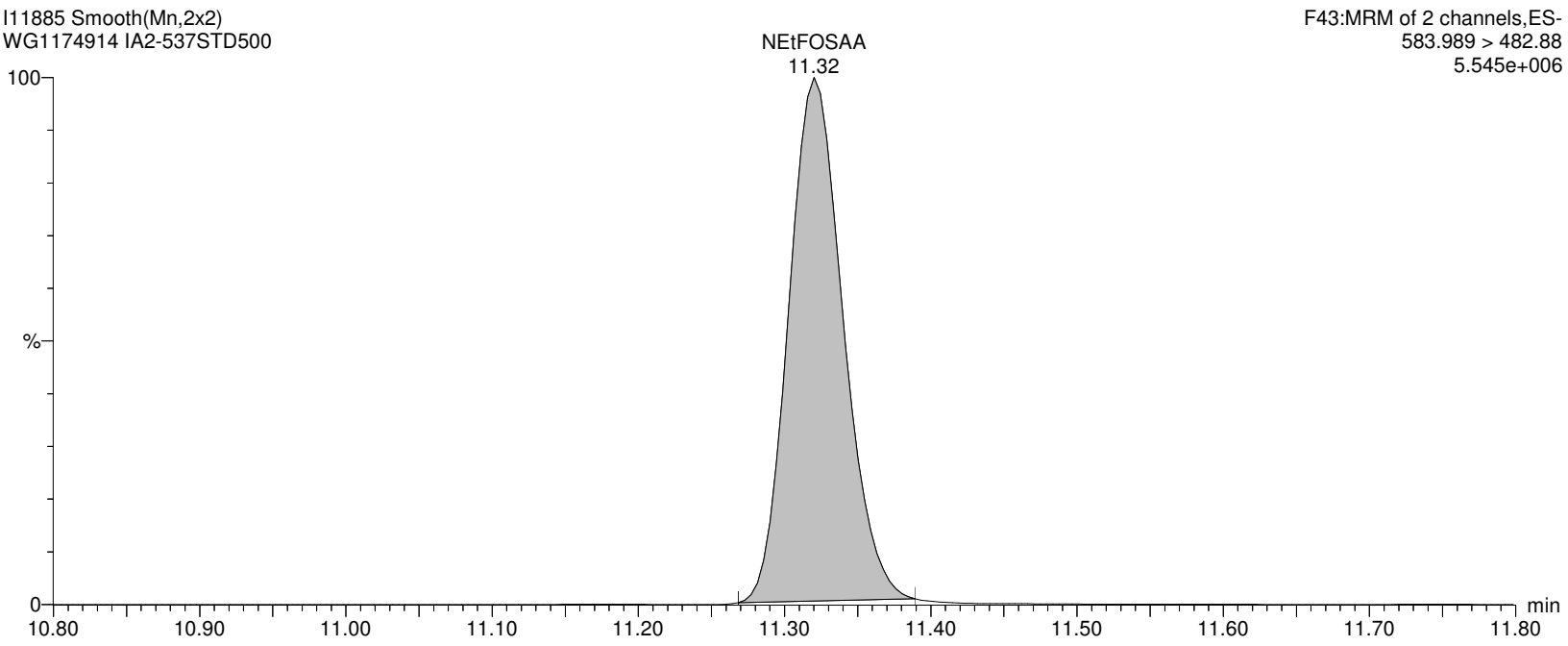

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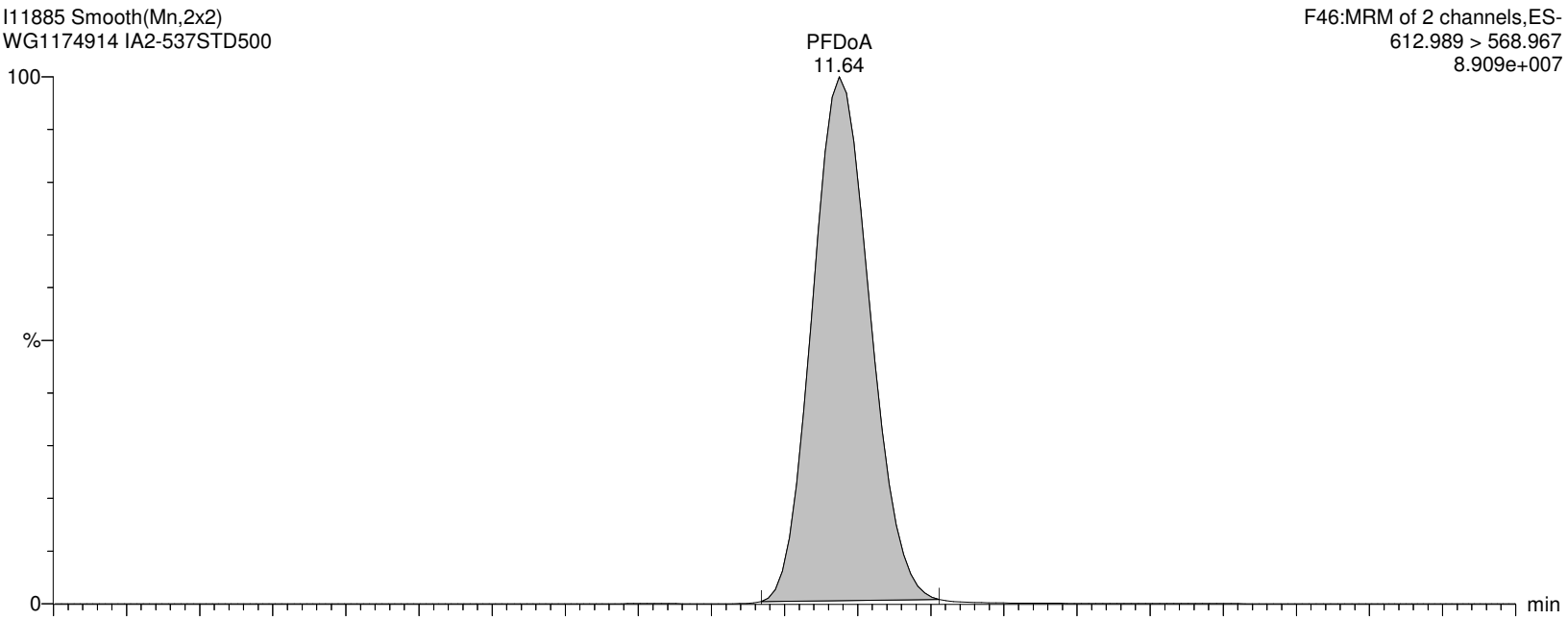

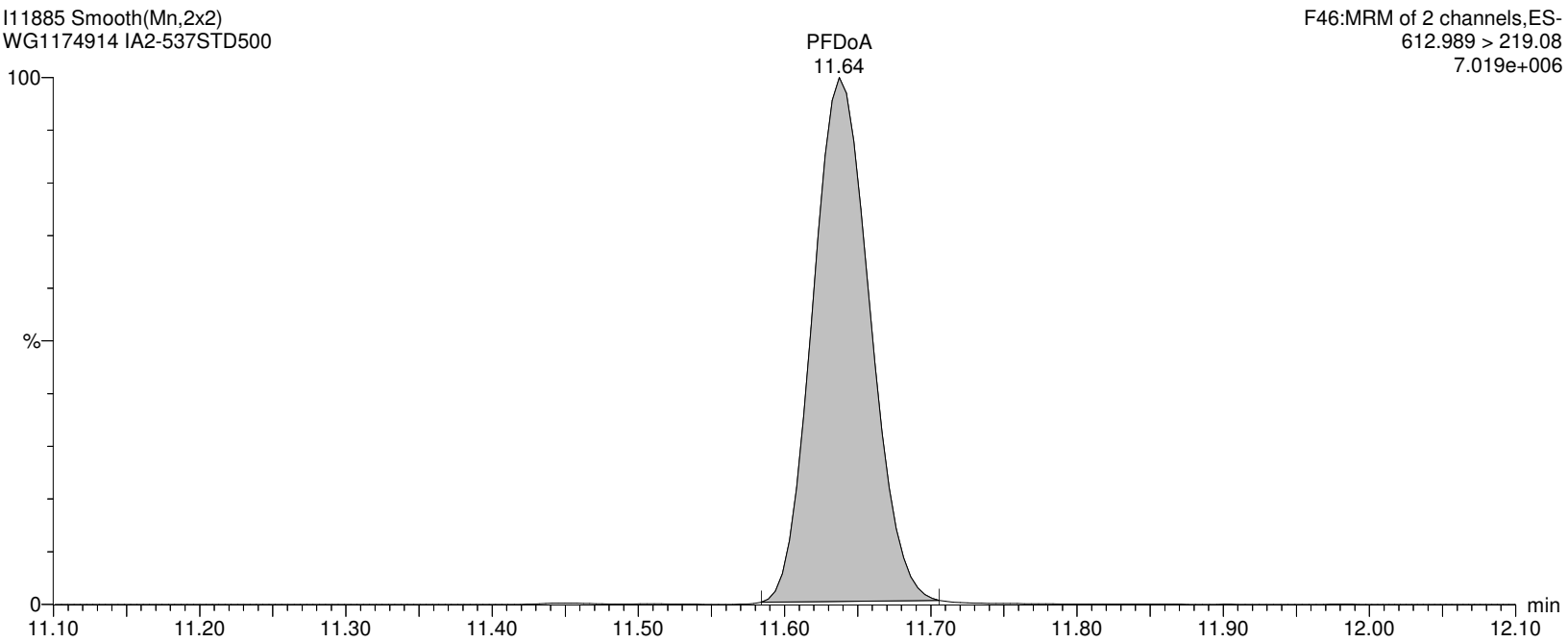

all concentration units in (ng/mL)

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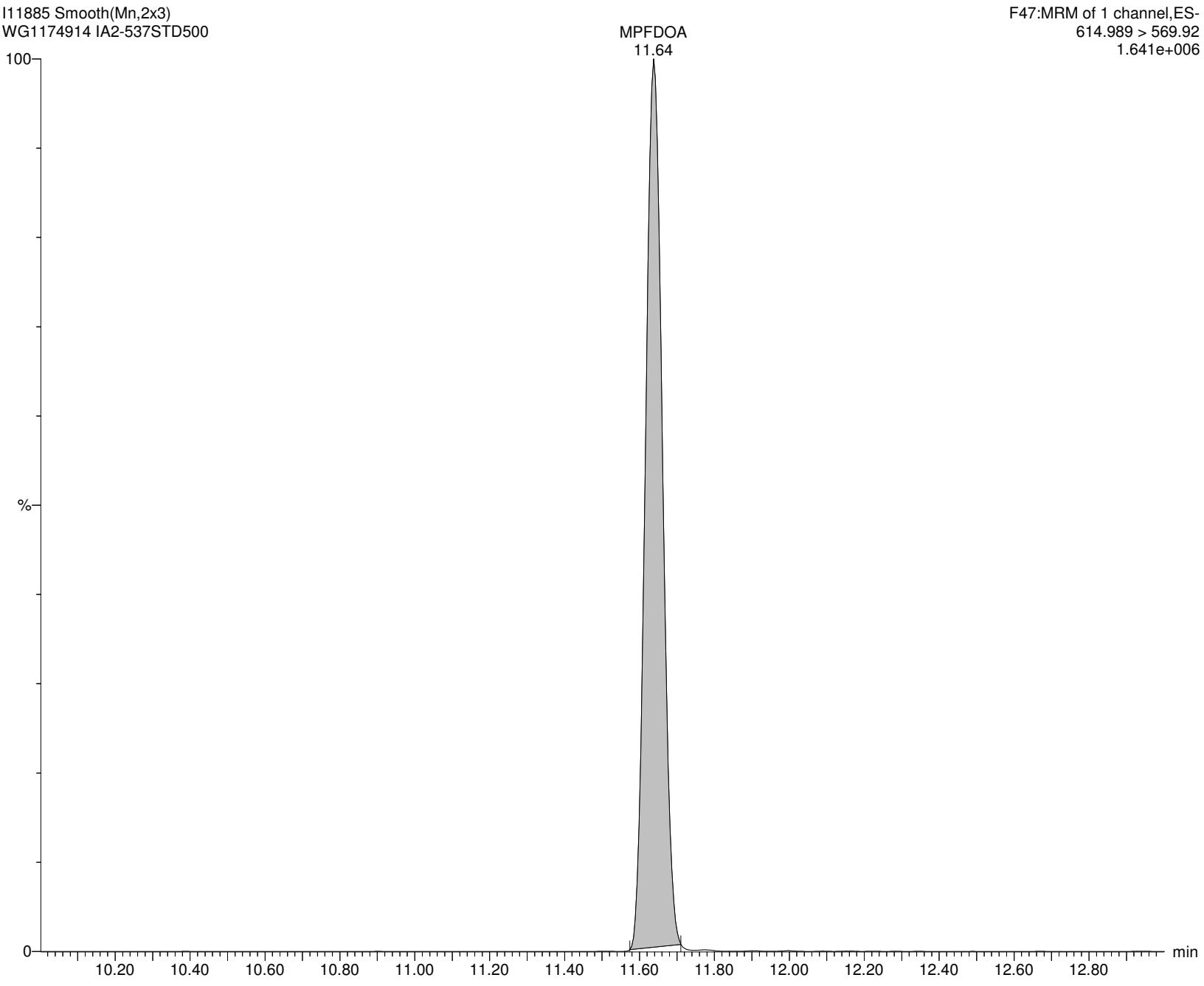

all concentration units in (ng/mL)

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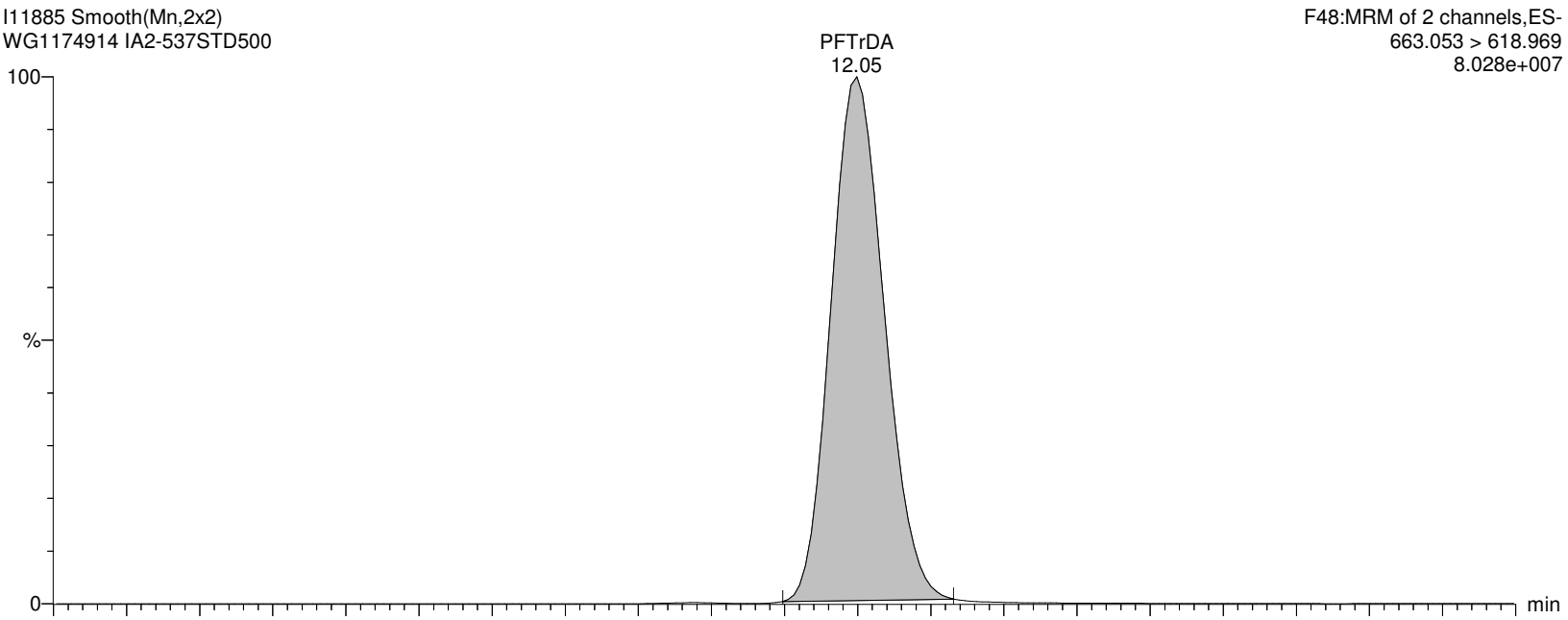

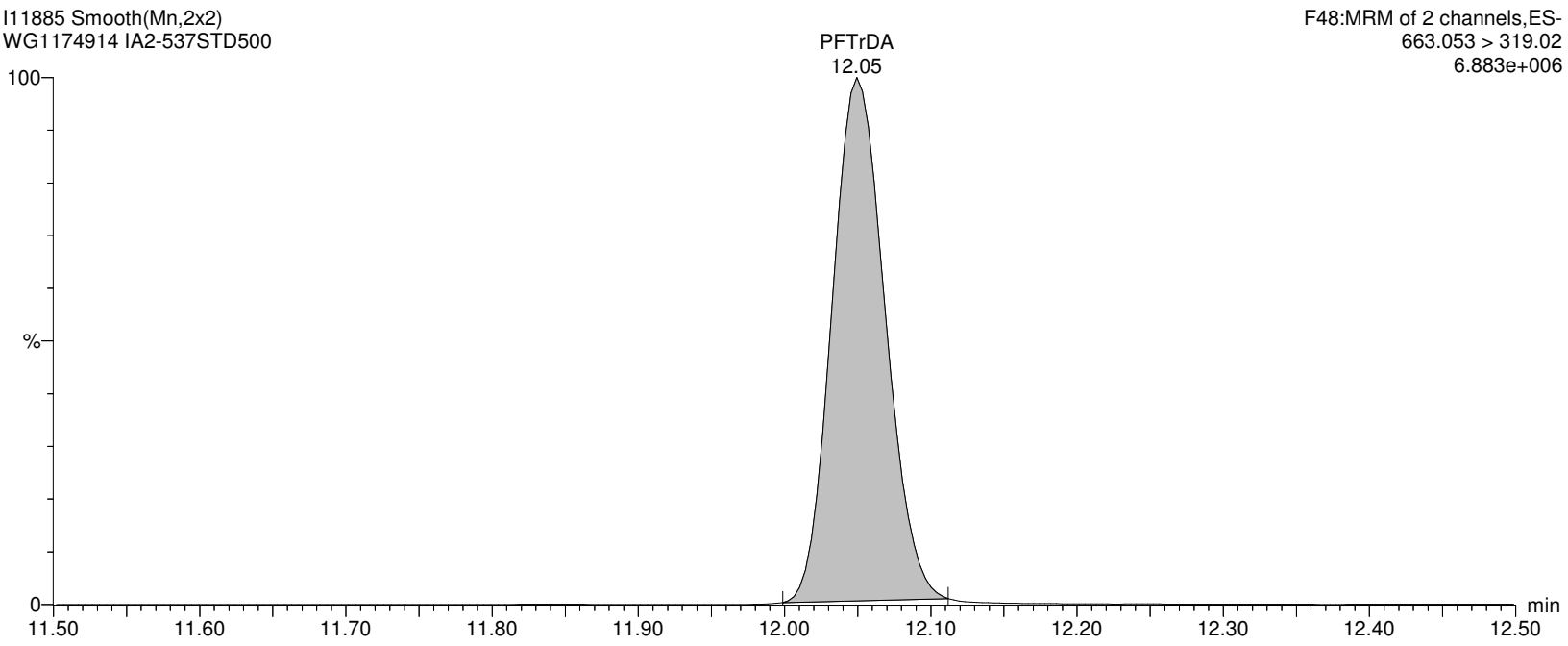

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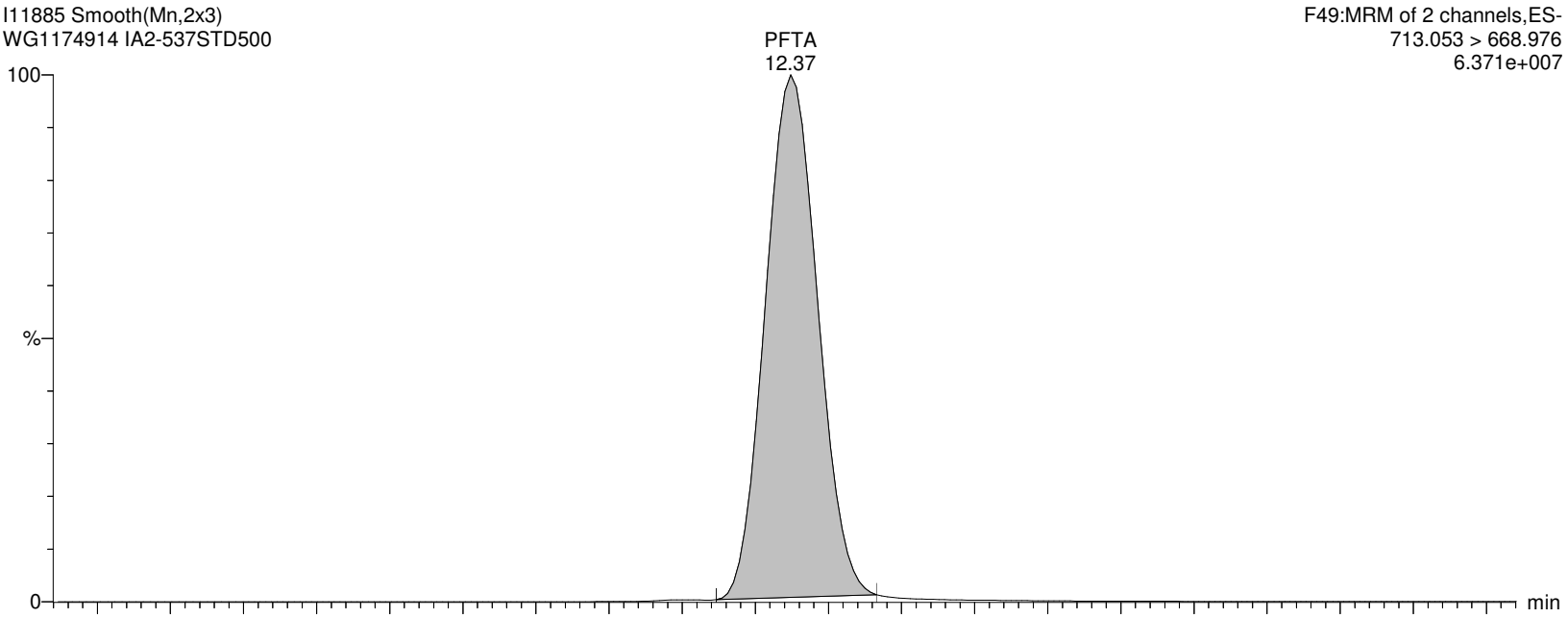

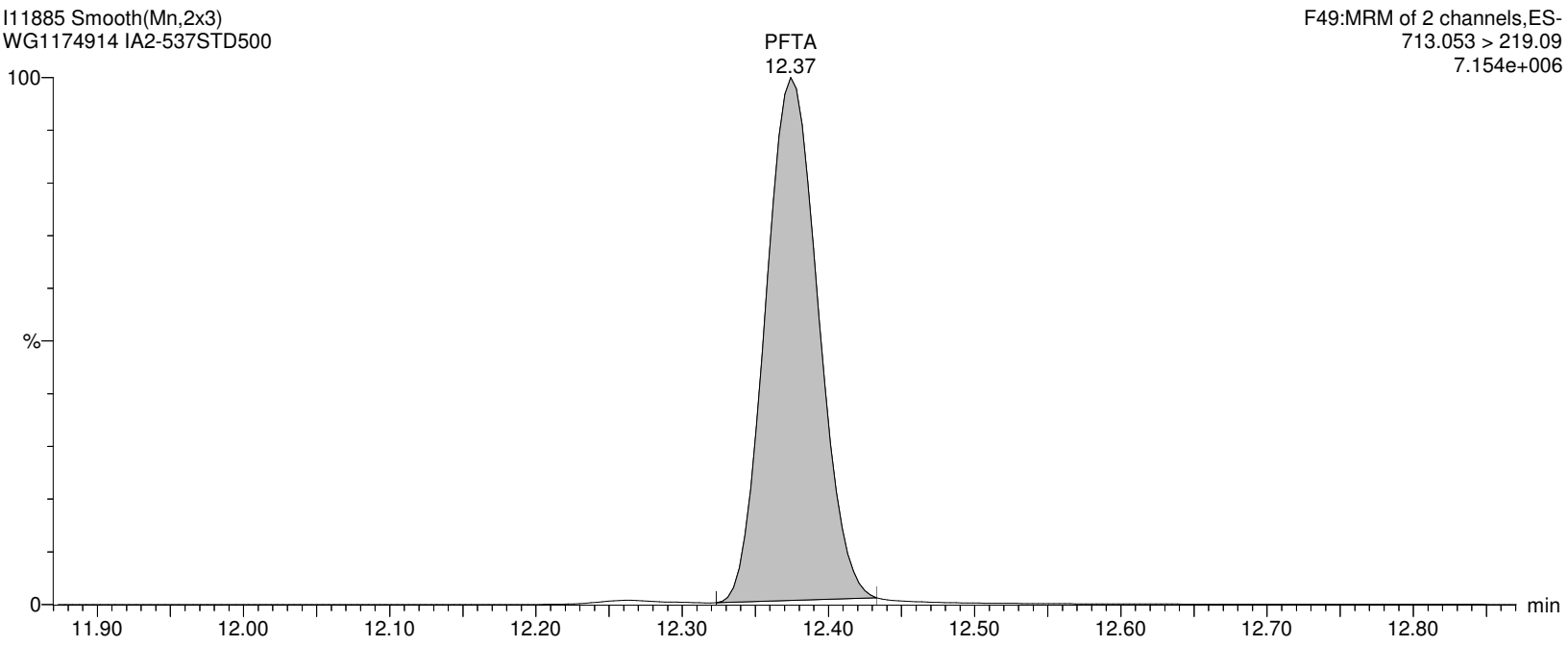

all concentration units in (ng/mL)

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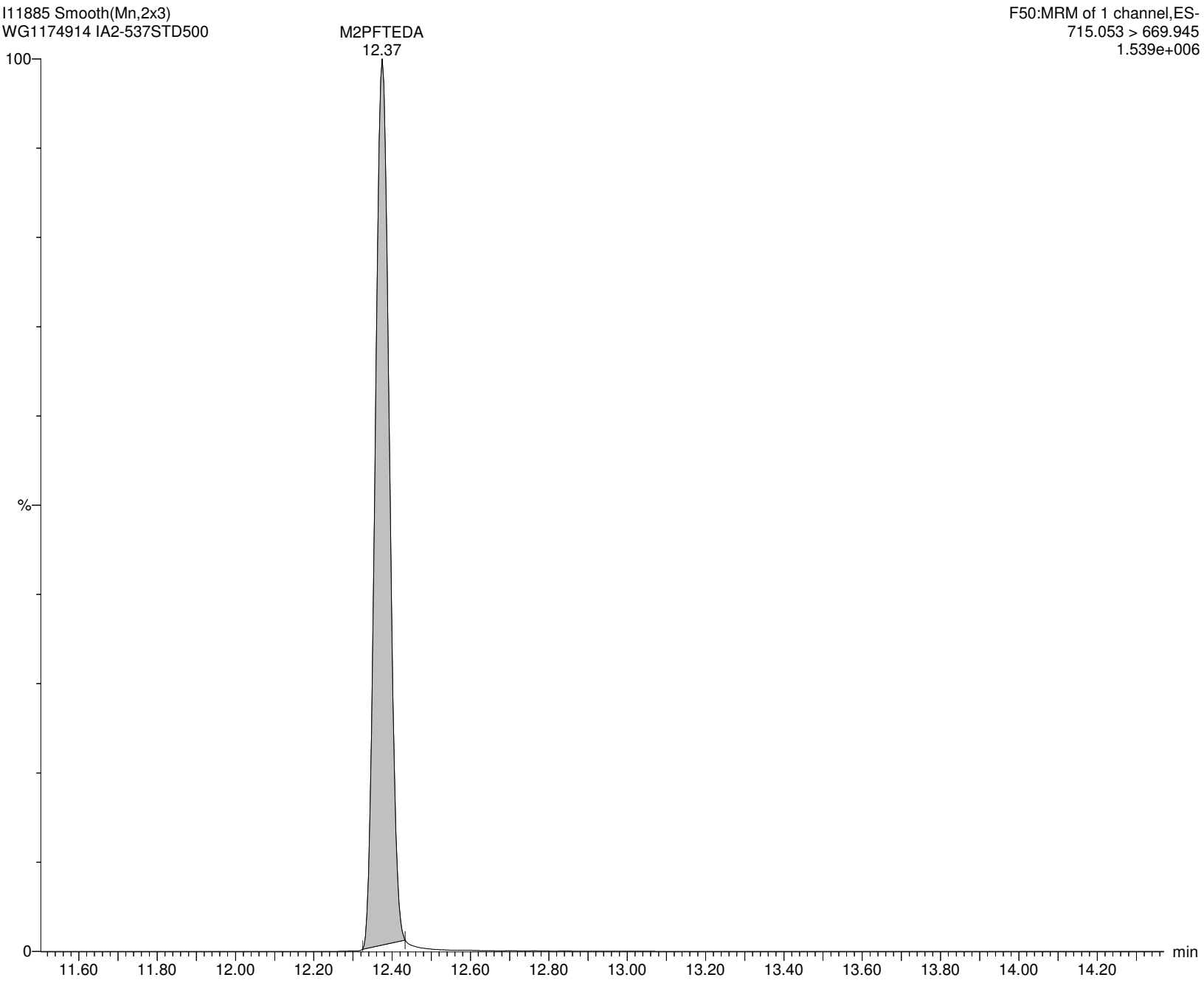

all concentration units in (ng/mL)

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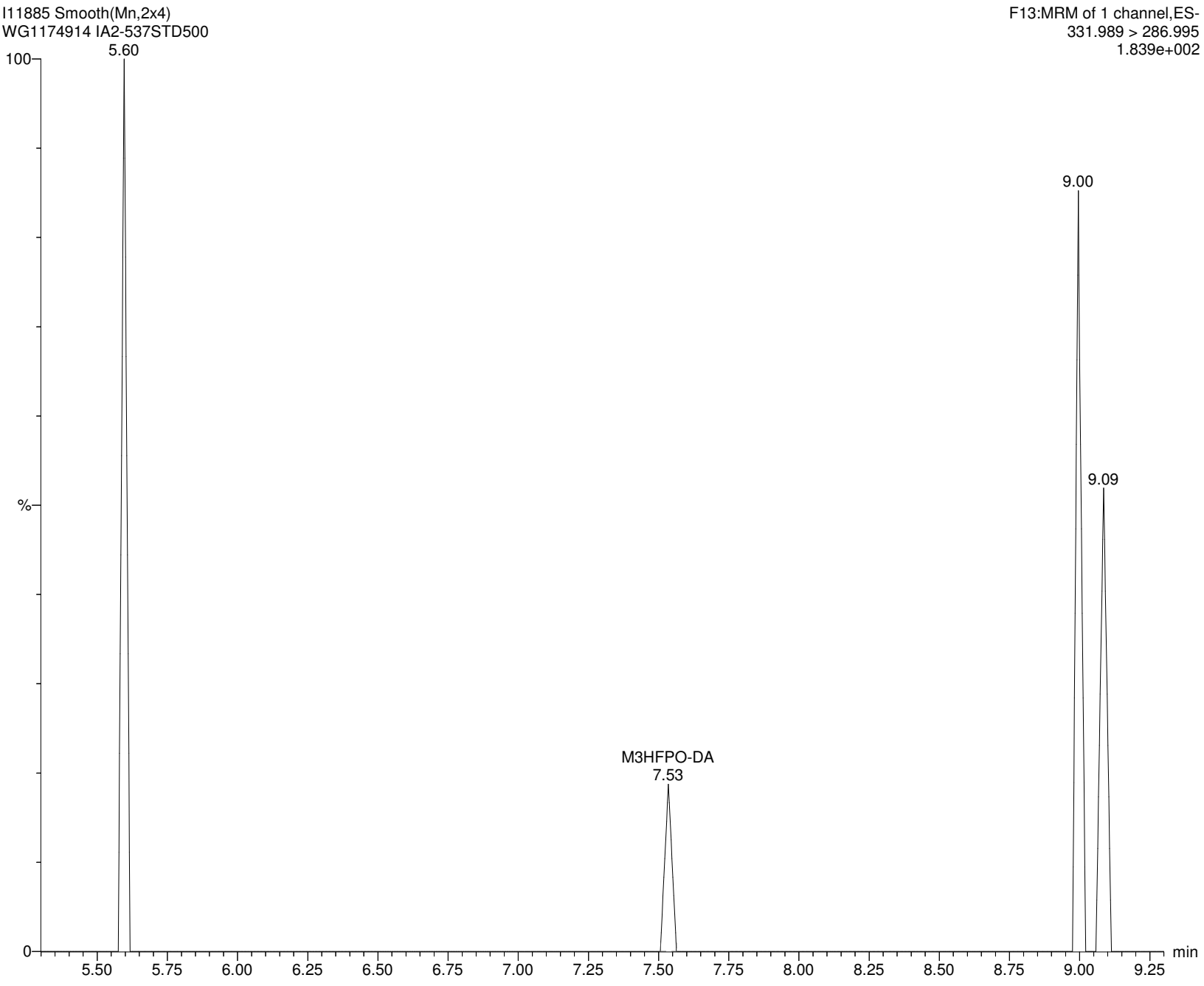

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Nov-2018
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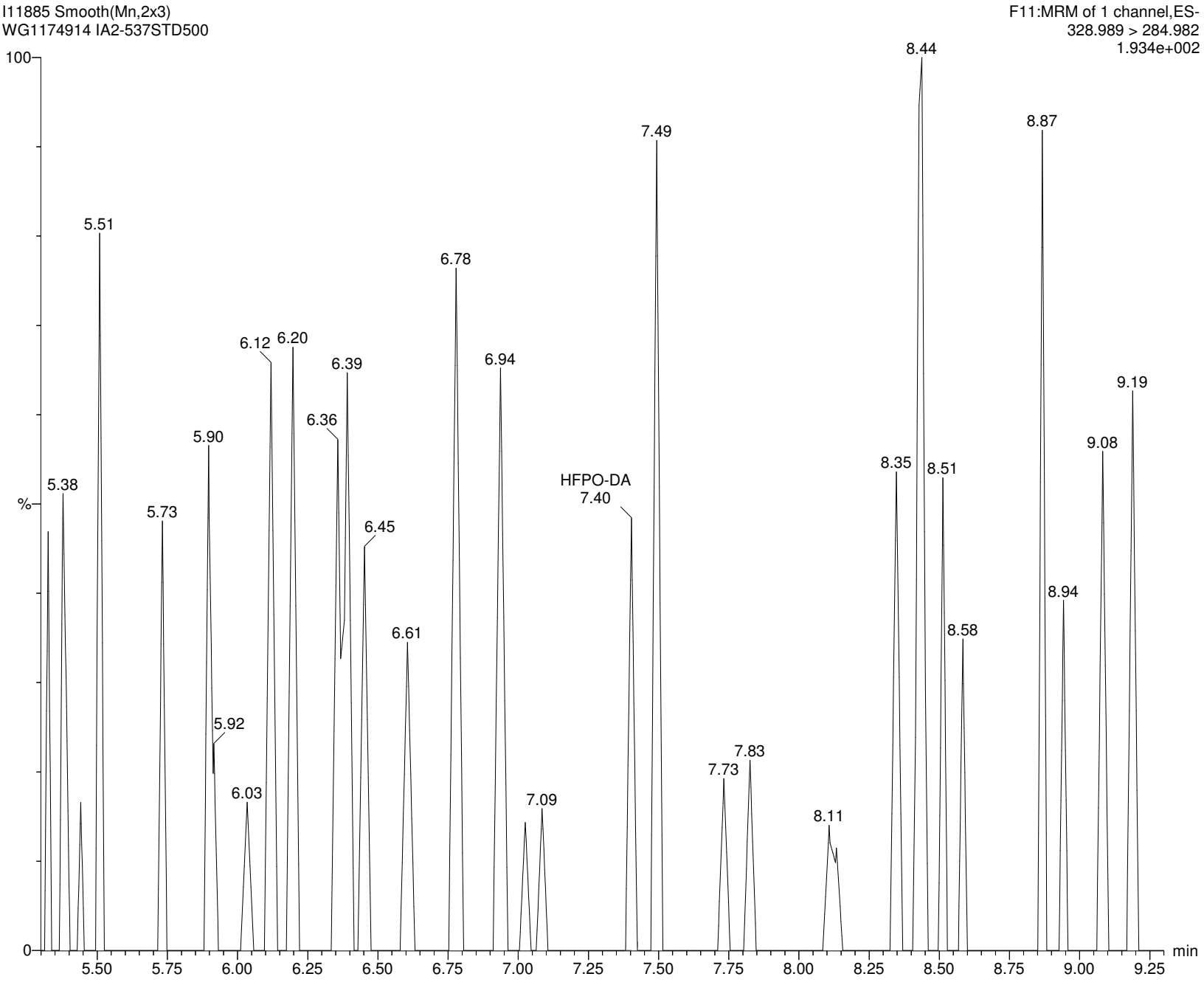

all concentration units in (ng/mL)

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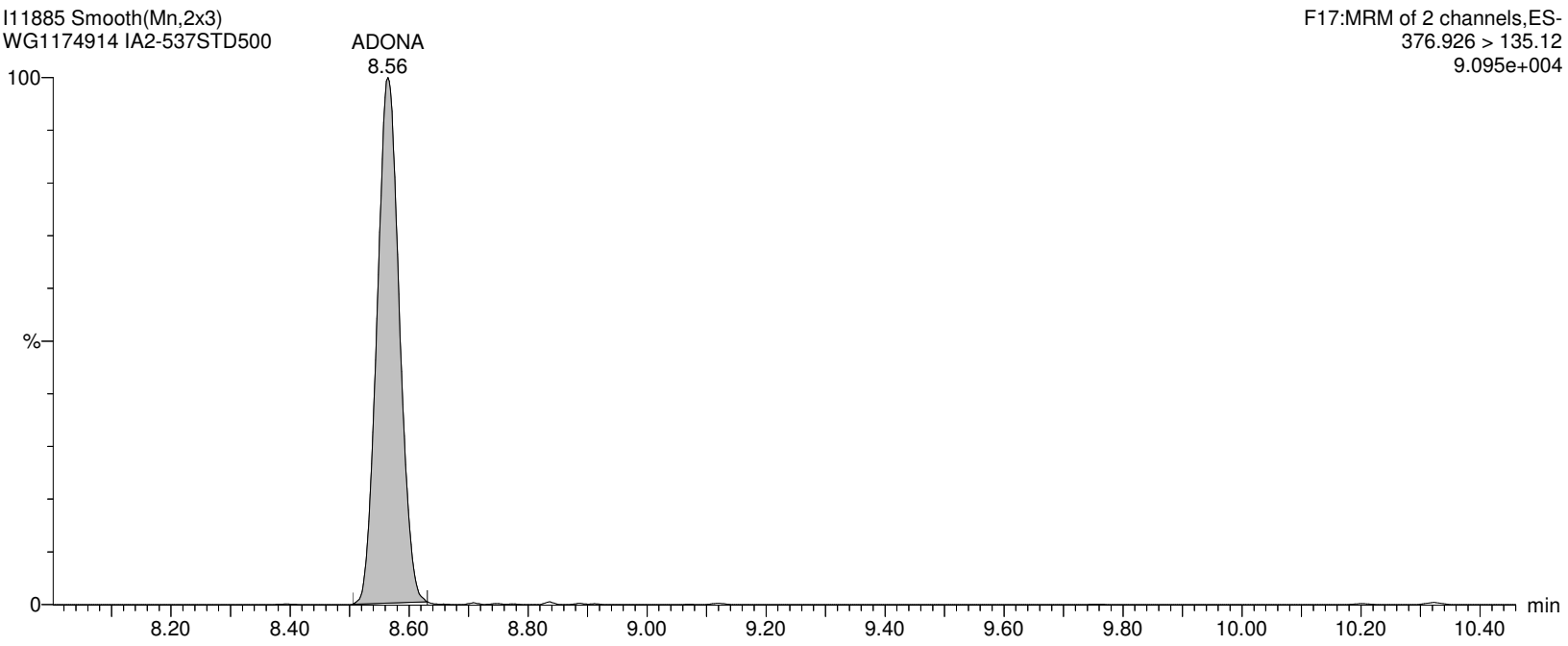

all concentration units in (ng/mL)

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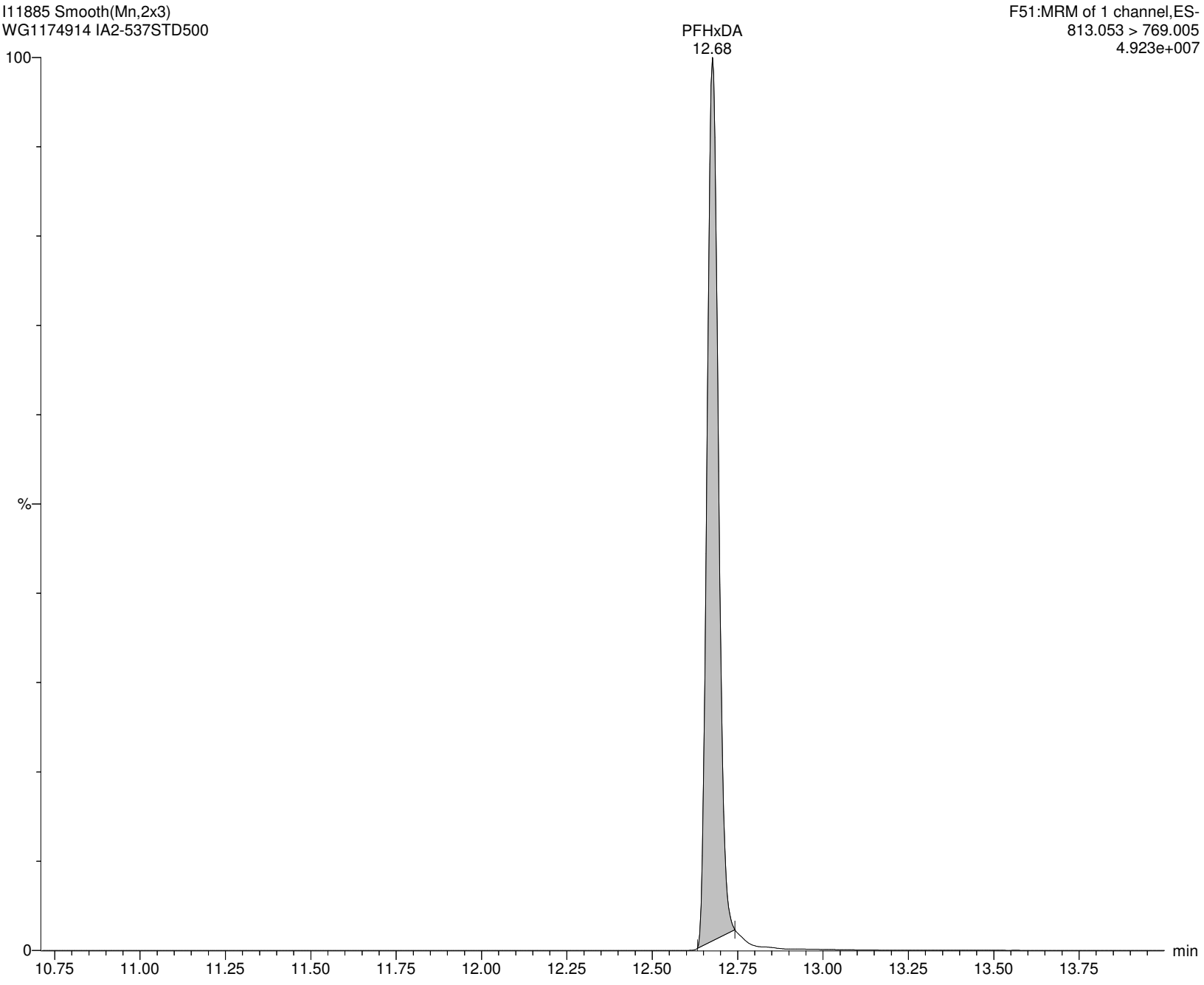

all concentration units in (ng/mL)

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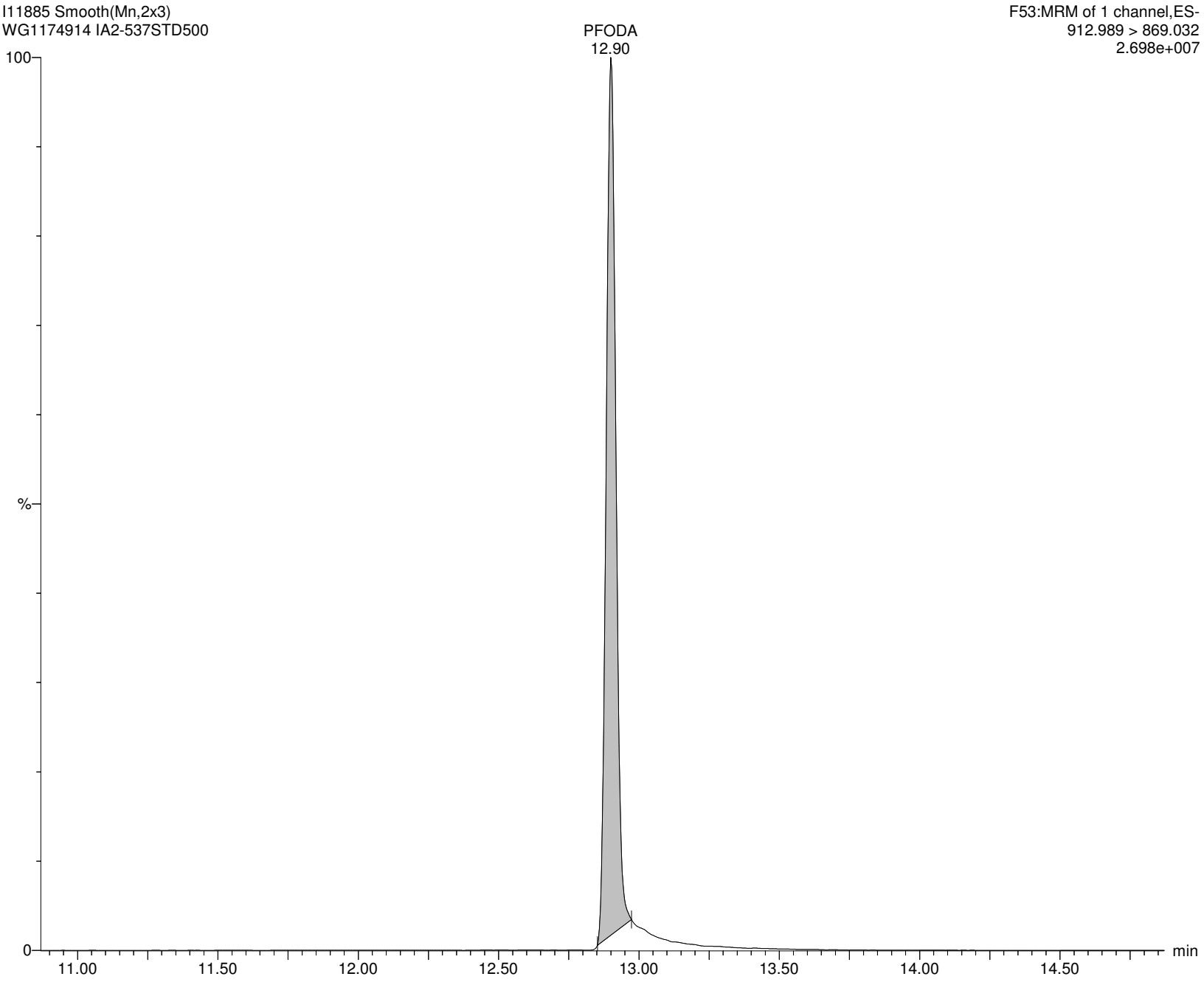

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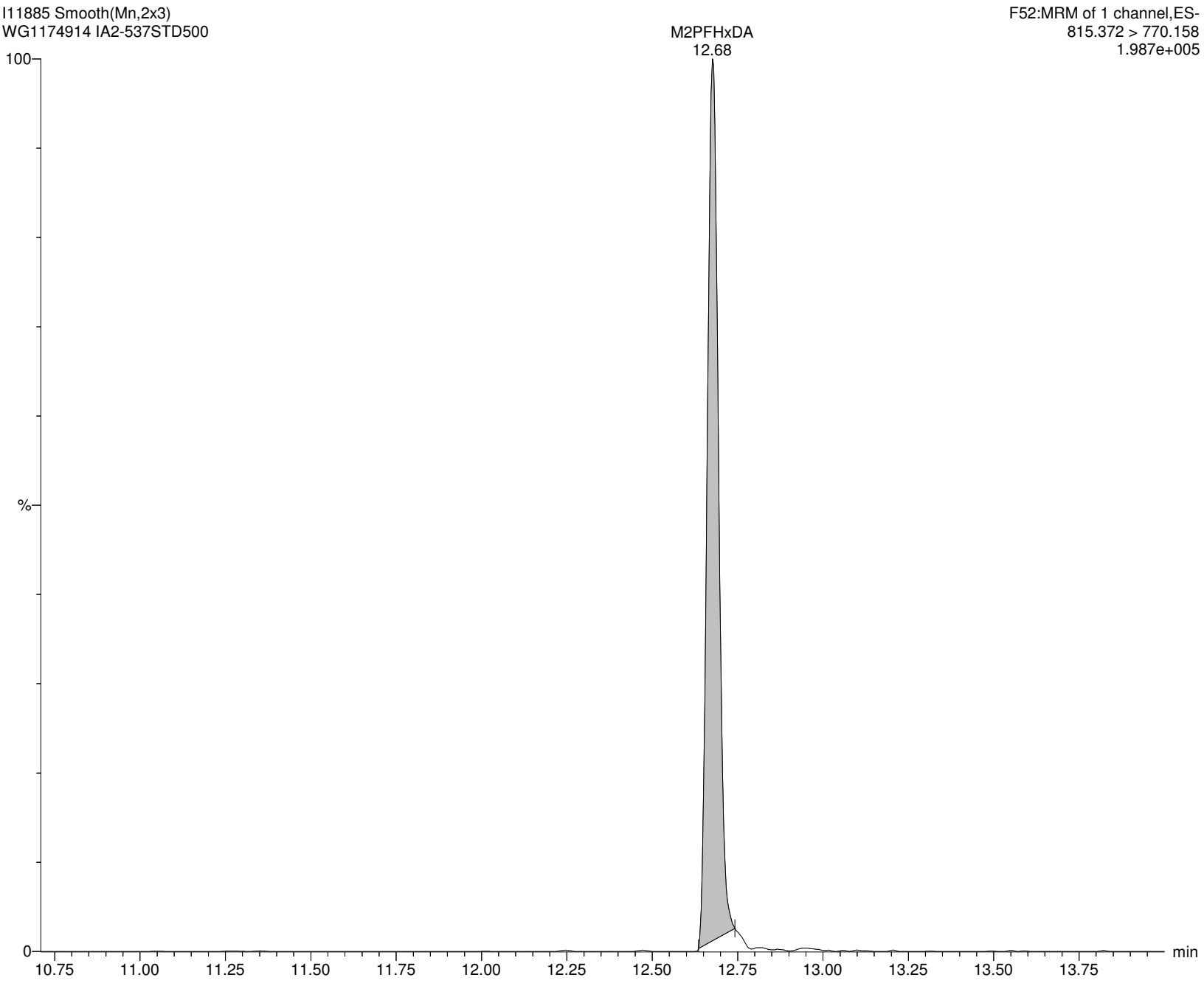

all concentration units in (ng/mL)

Alpha Analytical Inc.
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MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.13	212.926 > 169.111	85547		9.613		na	96.1
2	M3PFBA	INT STD	2.13	215.926 > 172.122	98917		10.686		na	106.9
3	MPFBA	INT STD	2.12	216.926 > 172.137	101801		10.834		na	108.3
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	125118		9.904		na	99.0
5	M5PFPEA	INT STD	5.08	267.989 > 223.081	134039		11.054		na	110.5
6	PFBS	375-73-5	5.77	298.989 > 80.295	21340		10.149		na	114.7
7	M3PFBS	INT STD	5.77	301.989 > 80.254	23717		9.948		na	99.5
8	4:2FTS	757124-72-4	6.95	326.926 > 306.957	12628		10.036	2.01	YES	107.3
9	M2-4:2FTS	INT STD	6.95	329.117 > 309.079	12756		8.626		na	86.3
10	PFHxA	307-24-4	7.03	312.989 > 269.028	159201		10.287	19.30	NO	102.9
11	M5PFHxA	INT STD	7.03	317.989 > 273.045	159469		10.698		na	107.0
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	22059		8.618	2.07	NO	91.7
13	PFHpA	375-85-9	8.32	362.926 > 319.014	172511		9.303	5.22	NO	93.0
14	M4PFHpA	INT STD	8.32	366.926 > 321.979	188355		10.746		na	107.5
15	br-PFHxS	355-46-4	8.25	398.926 > 80.295	2792		1.160	2.55	YES	68.2
16	L-PFHxS	355-46-4	8.48	398.926 > 80.295	17945		8.602	1.54	NO	116.2
17	PFHxS	355-46-4		398.926 > 80.295	20737		9.762		na	
18	M3PFHxS	INT STD	8.48	401.926 > 80.317	14795		11.173		na	111.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	169282		9.708	9.07	NO	97.1
21	M2PFOA	INT STD	9.27	415.032 > 369.968	206906		10.958		na	109.6
22	PFOA	335-67-1		412.989 > 368.9	169282		9.708		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	178723		10.711		na	107.1
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	10921		10.219	1.02	NO	107.6
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	10950		8.920		na	89.2
26	PFHpS	375-92-8	9.37	448.926 > 80.257	11508		9.828	0.92	YES	103.4
27	PFNA	375-95-1	10.02	462.989 > 418.931	156198		10.219	4.34	NO	102.2
28	M9PFNA	INT STD	10.02	472.053 > 426.947	183012		10.997		na	110.0
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	5625		2.029	3.79	YES	101.5
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	12154		6.153	1.70	YES	84.3
31	PFOS	1763-23-1		498.989 > 80.294	17778		8.182		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	19125		11.806		na	118.1
33	M8PFOS	INT STD	10.07	507.053 > 80.294	18913		10.605		na	106.0
34	PFDA	335-76-2	10.64	513.053 > 468.906	146300		10.108	5.87	NO	101.1
35	M2PFDA	INT STD	10.64	515.053 > 469.934	170702		11.482		na	114.8
36	M6PFDA	INT STD	10.64	519.053 > 473.931	163171		10.587		na	105.9
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	7514		8.965		na	93.4
38	M2-8:2FTS	INT STD	10.63	529.053 > 508.945	6943		9.631		na	96.3
39	PFNS	68259-12-1	10.67	548.989 > 80.249	15024		9.816	1.33	NO	102.3

all concentration units in (ng/mL)

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Last Altered: Thursday, November 01, 2018 20:36:53 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:37:25 Eastern Daylight Time

ID: CA2-537STD010
Name: I11887
Date: 01-Nov-2018
Time: 19:31:25
Description: WG1174914
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	15976		9.615		na	96.2
41	NMeFOSAA	2355-31-9	11.03	570.053 > 418.917	15805		9.835		na	98.4
42	PFUnA	2058-94-8	11.17	562.989 > 518.903	135808		9.516	7.43	NO	95.2
43	M7-PFUDA	INT STD	11.17	570.053 > 524.923	143633		11.134		na	111.3
44	PFDS	335-77-3	11.19	598.926 > 80.314	11519		9.107	1.08	NO	94.4
45	FOSA	754-91-6	11.13	497.989 > 78.245	50546		9.103		na	91.0
46	M8FOSA	INT STD	11.12	506.053 > 78.286	56768		10.324		na	103.2
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	14909		9.302		na	93.0
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	15054		9.876	2.88	YES	98.8
49	PFDoA	307-55-1	11.64	612.989 > 568.967	134204		9.736	13.68	NO	97.4
50	MPFDOA	INT STD	11.64	614.989 > 569.92	147824		10.199		na	102.0
51	PFTrDA	72629-94-8	12.05	663.053 > 618.969	106287		9.169	11.45	NO	91.7
52	PFTA	376-06-7	12.37	713.053 > 668.976	98036		10.806	9.09	NO	108.1
53	M2PFTEDA	INT STD	12.37	715.053 > 669.945	108048		10.064		na	100.6
54	M3HFPO-DA	INT STD		331.989 > 286.995			ND		na	
55	HFPO-DA	13252-13-6		328.989 > 284.982			ND		na	
56	ADONA	958445-44-8	8.50	376.926 > 251.005	234670		9.924	2914.10	NO	104.9
57	PFHxDA		12.68	813.053 > 769.005	51383		5.663		na	56.6
58	PFODA		12.90	912.989 > 869.032	31908		5.845		na	58.4
59	M2PFHxDA		12.68	815.372 > 770.158	15024		13.452		na	134.5

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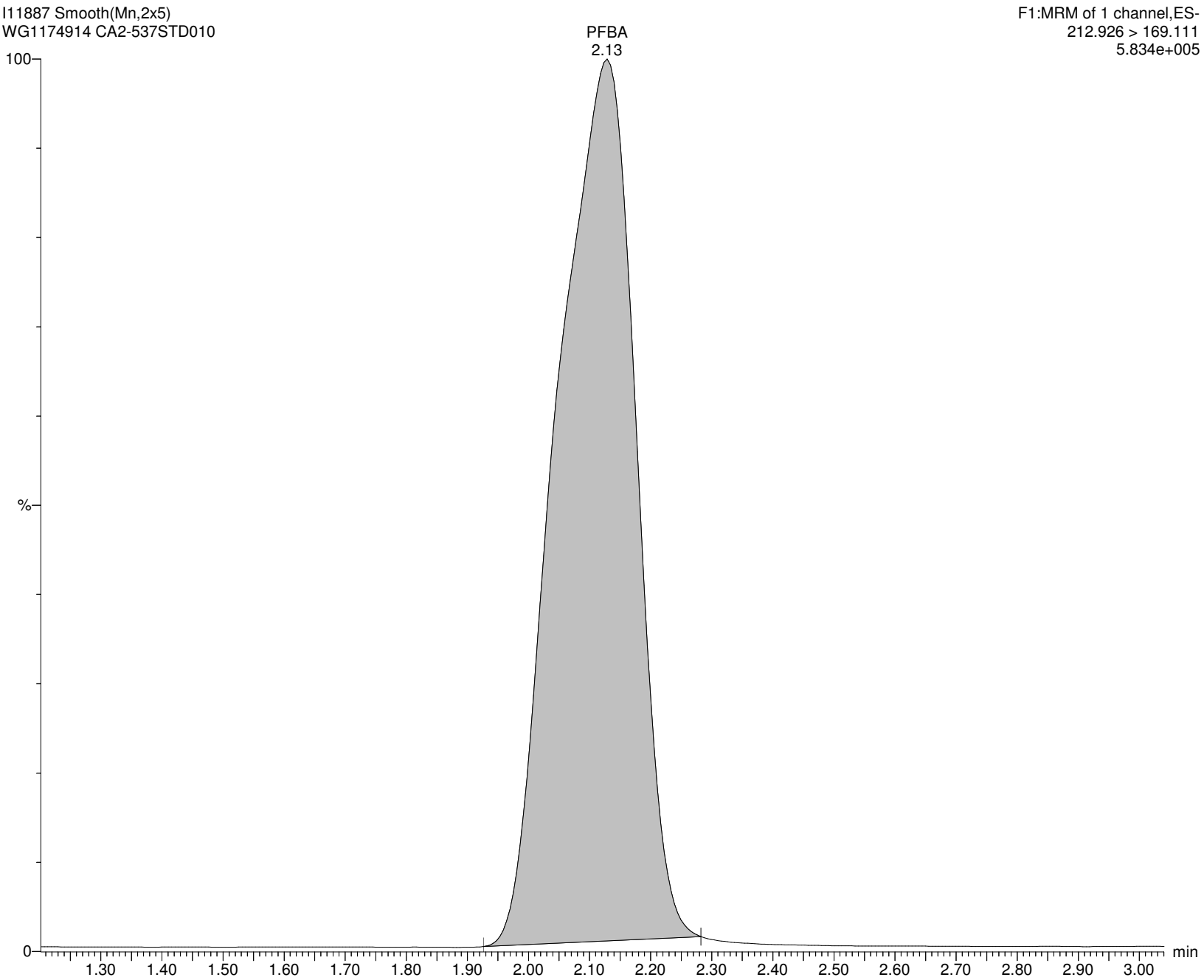

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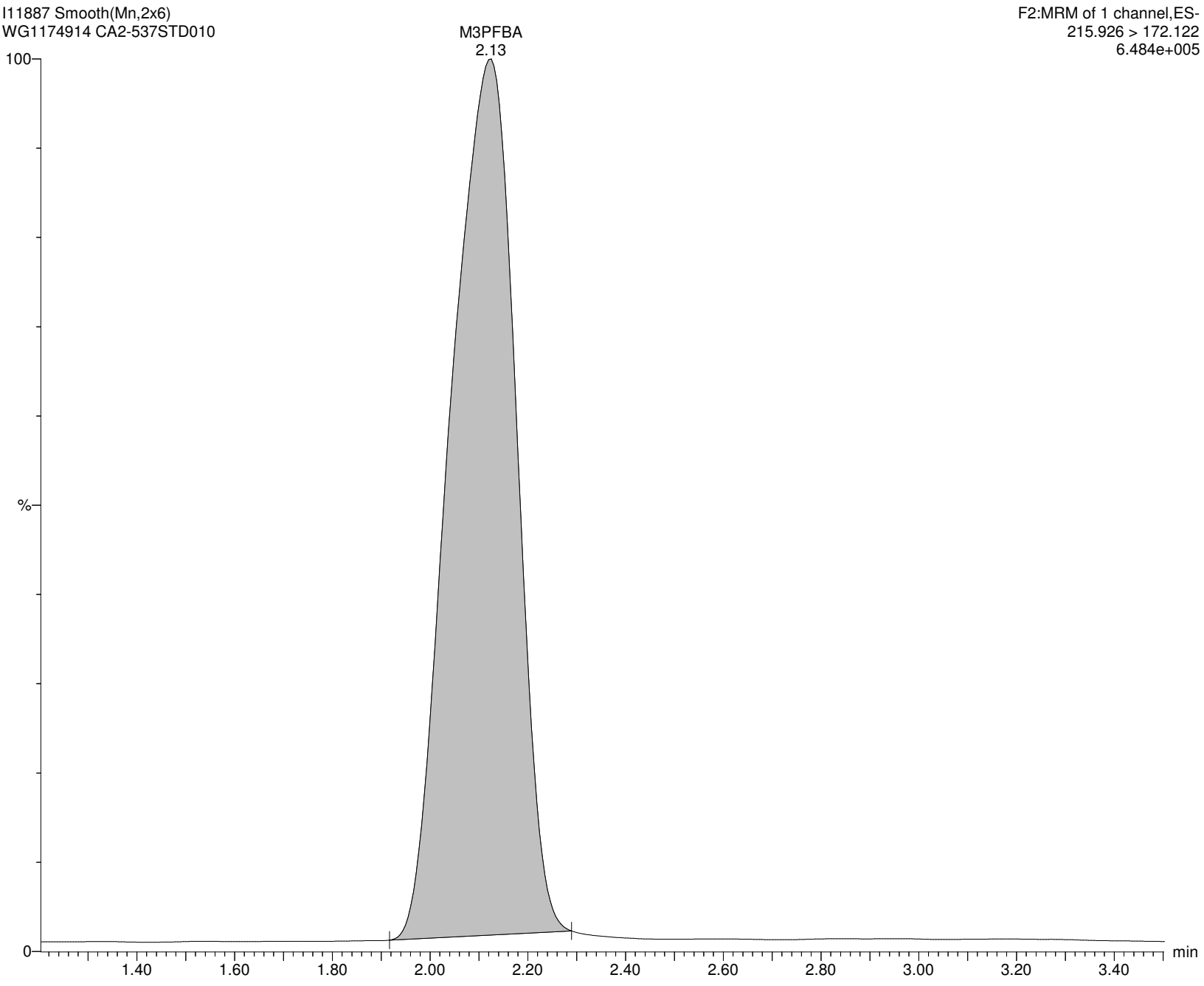

all concentration units in (ng/mL)

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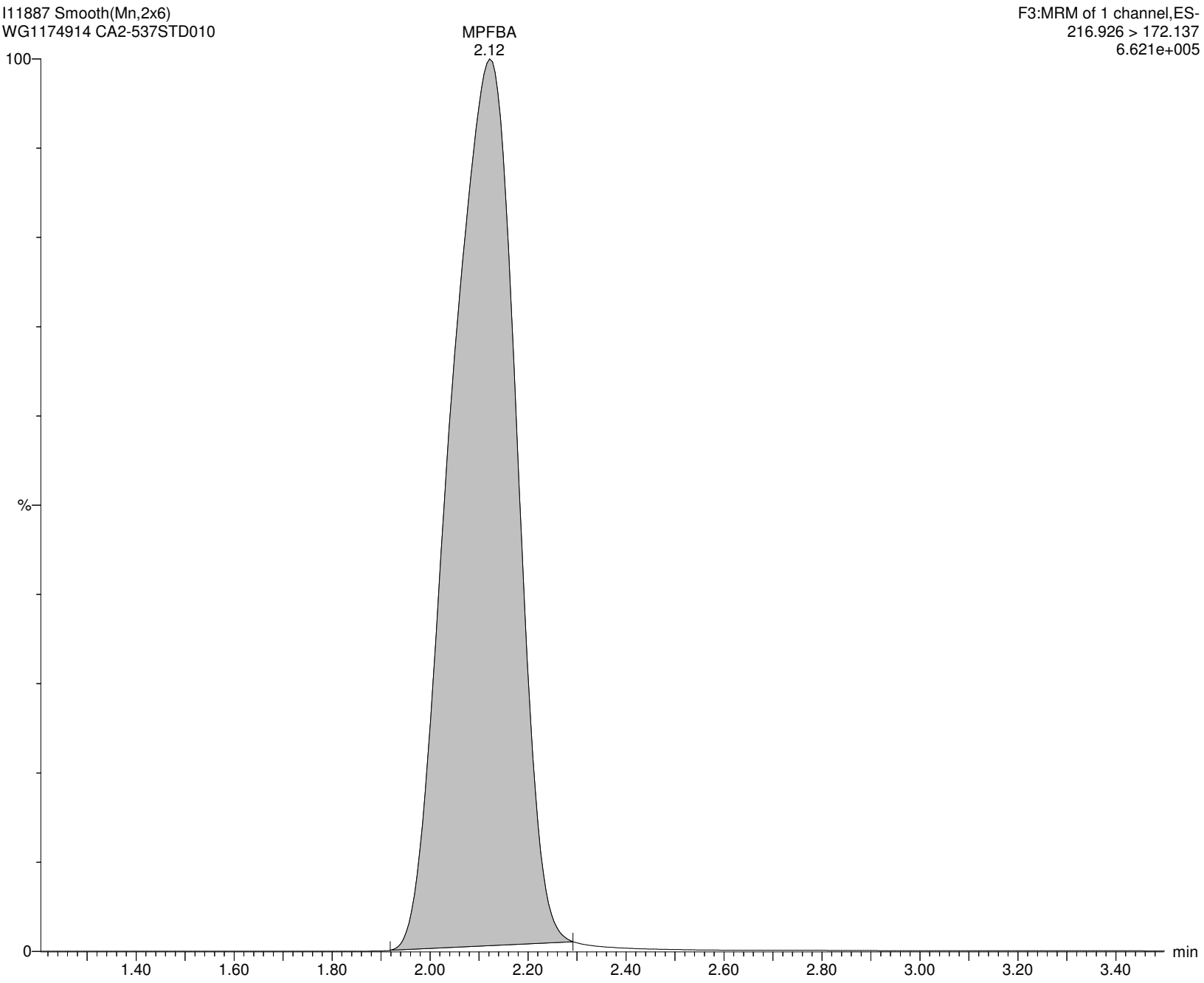

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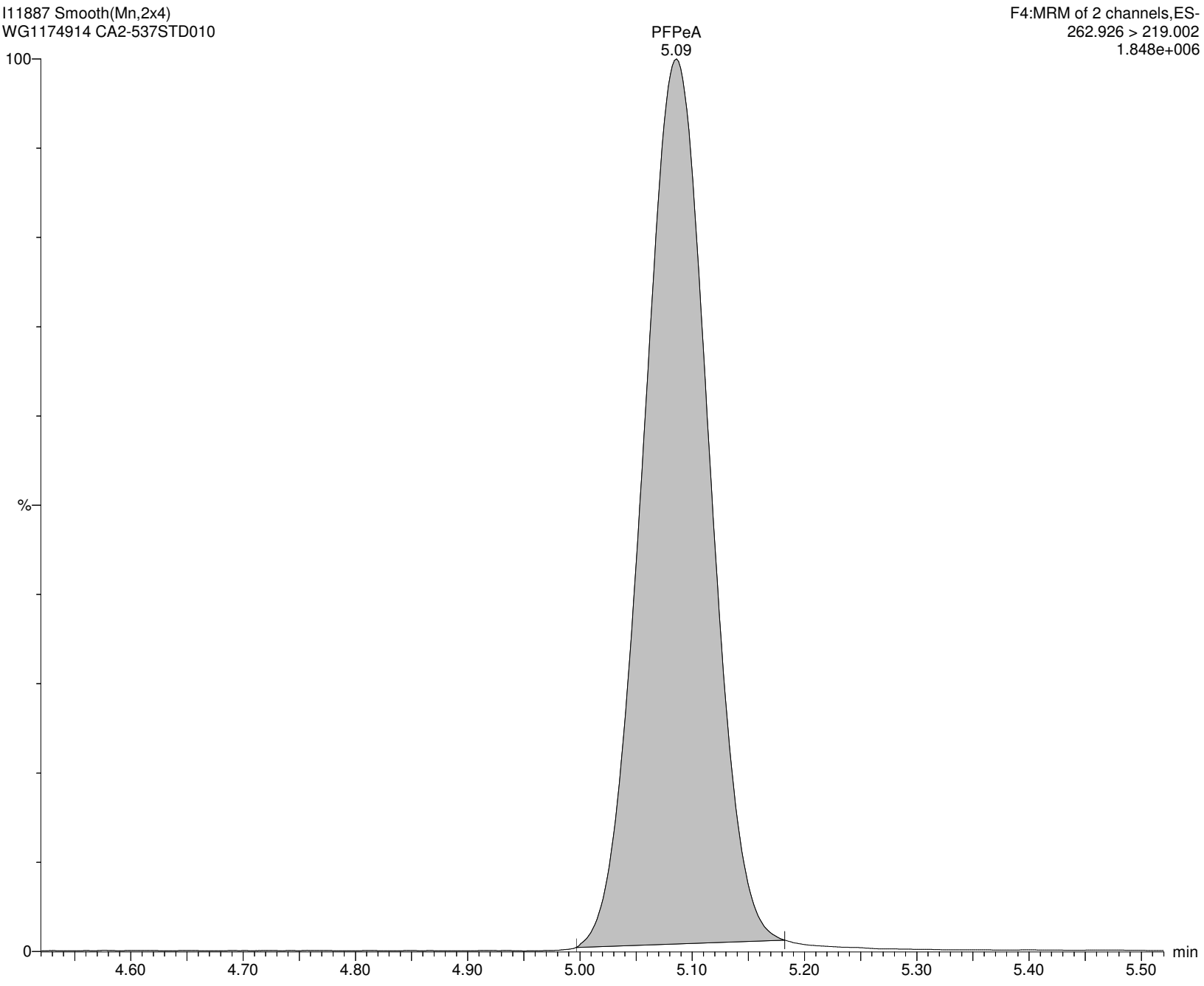

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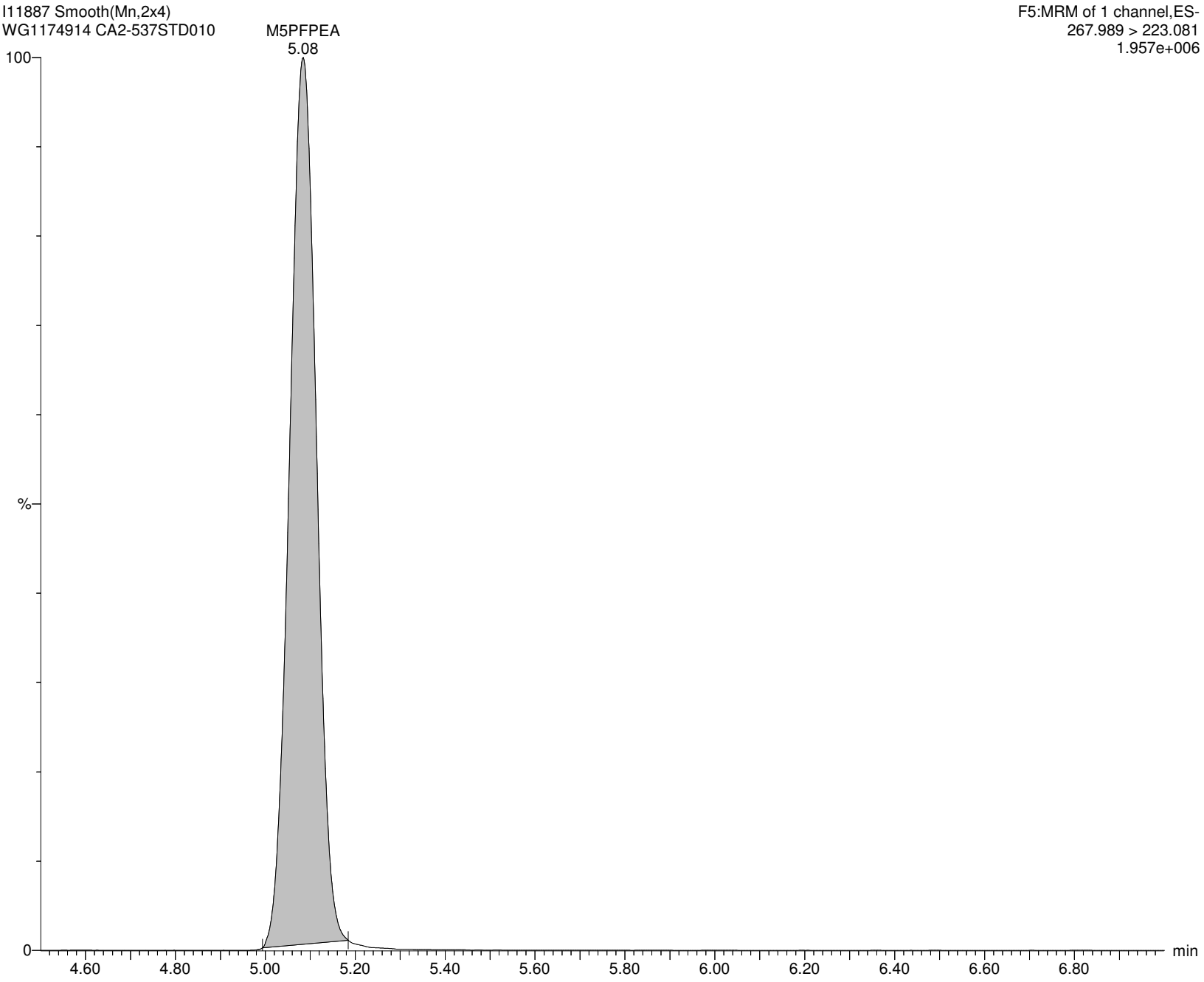

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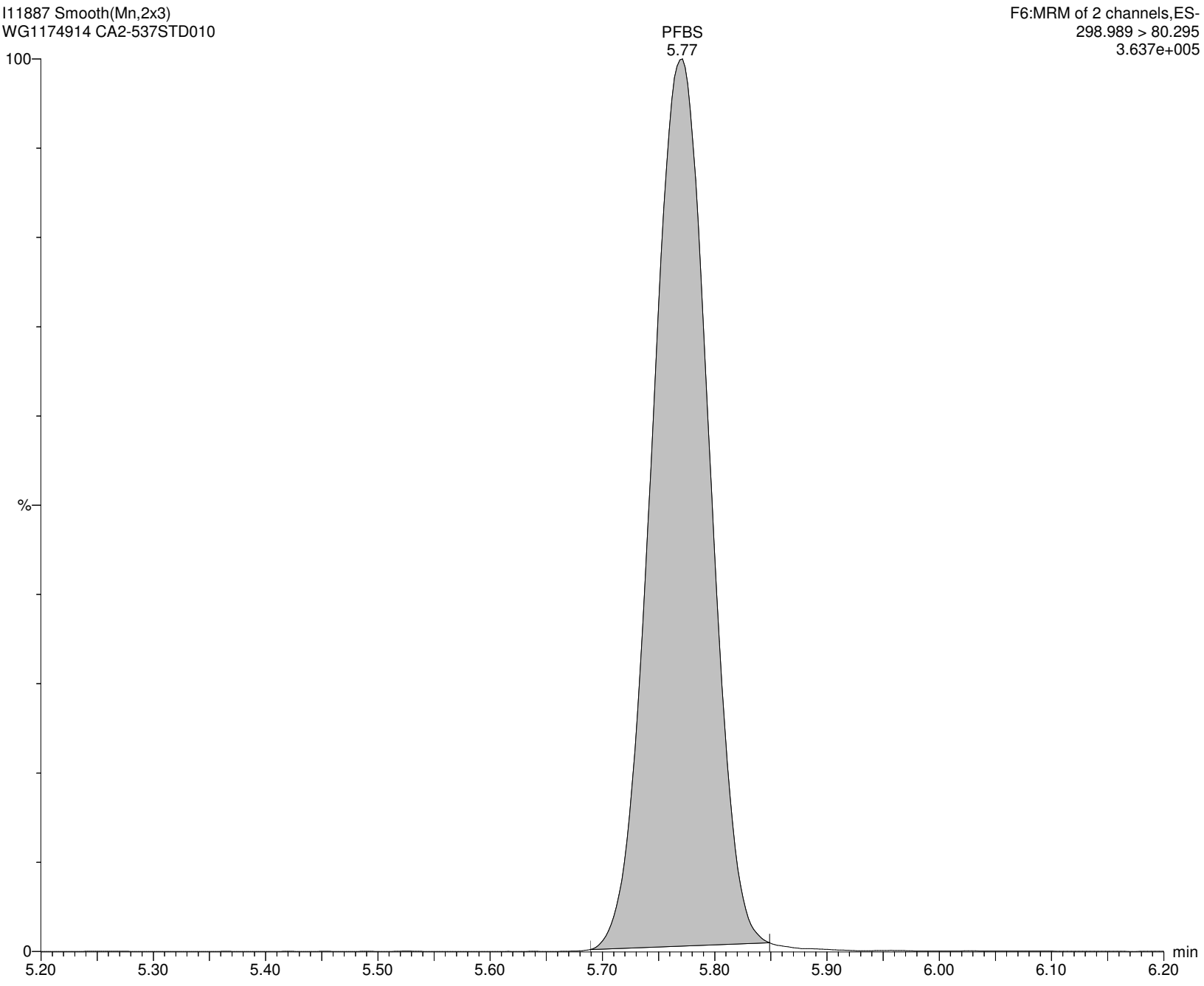

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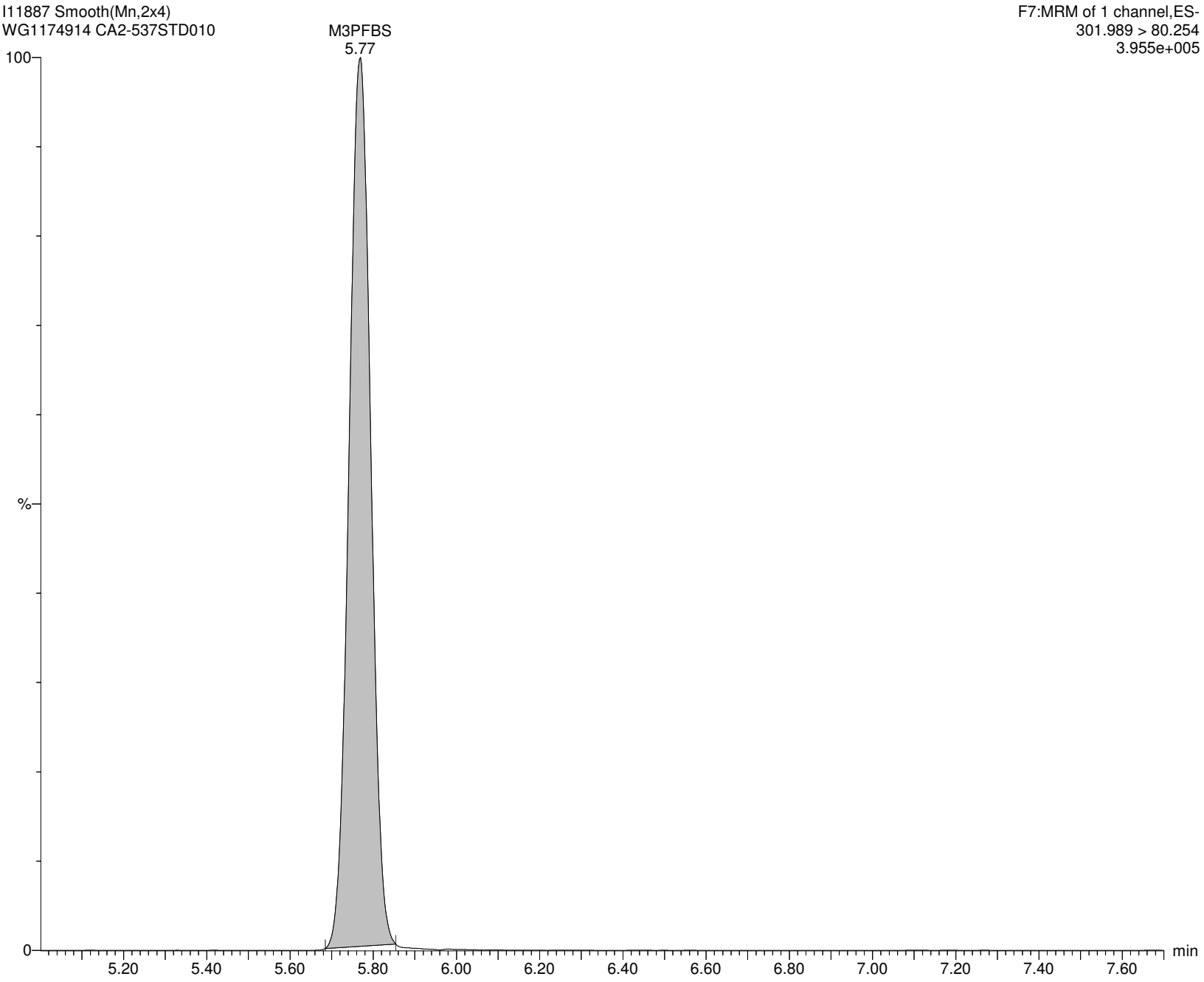

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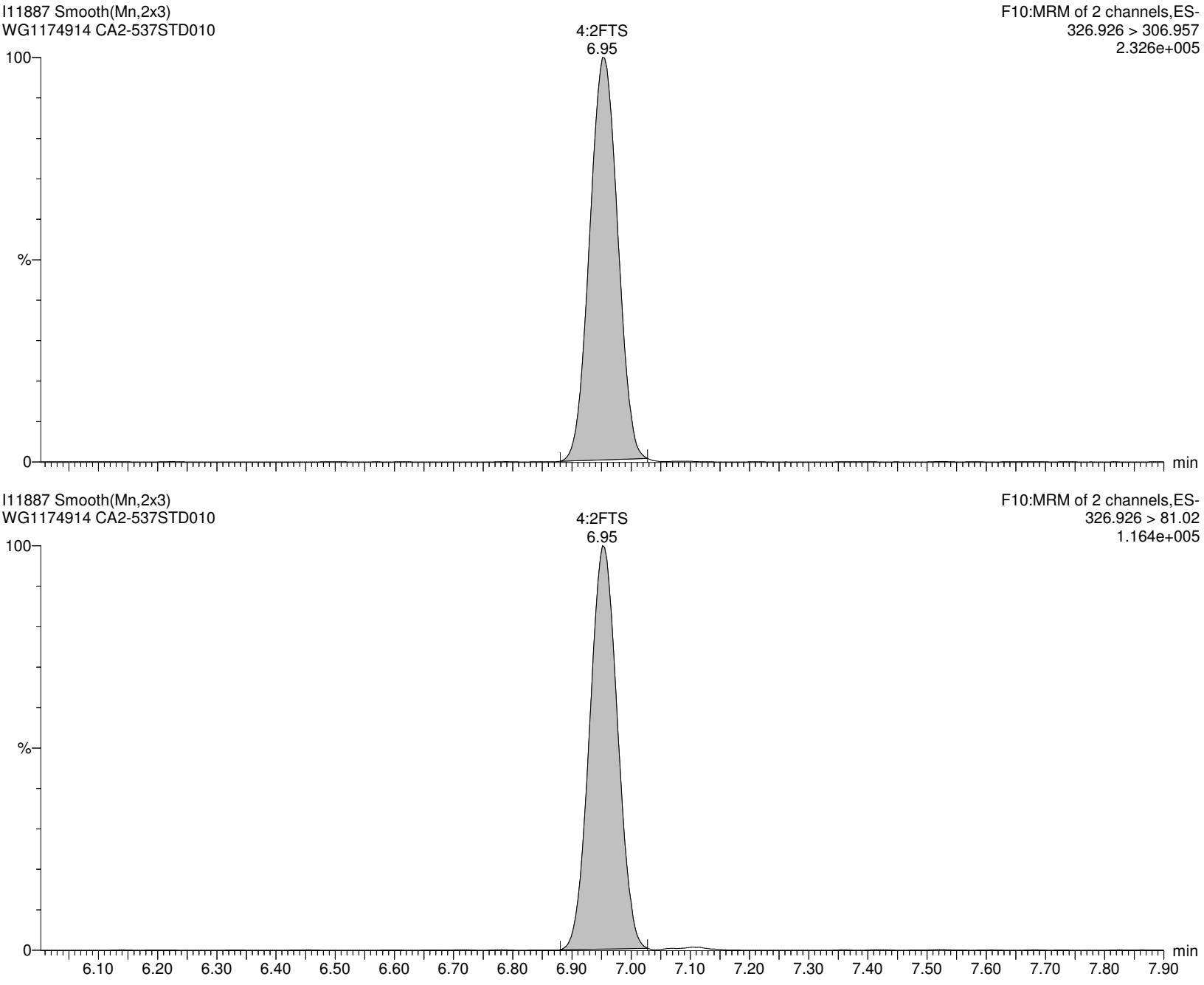

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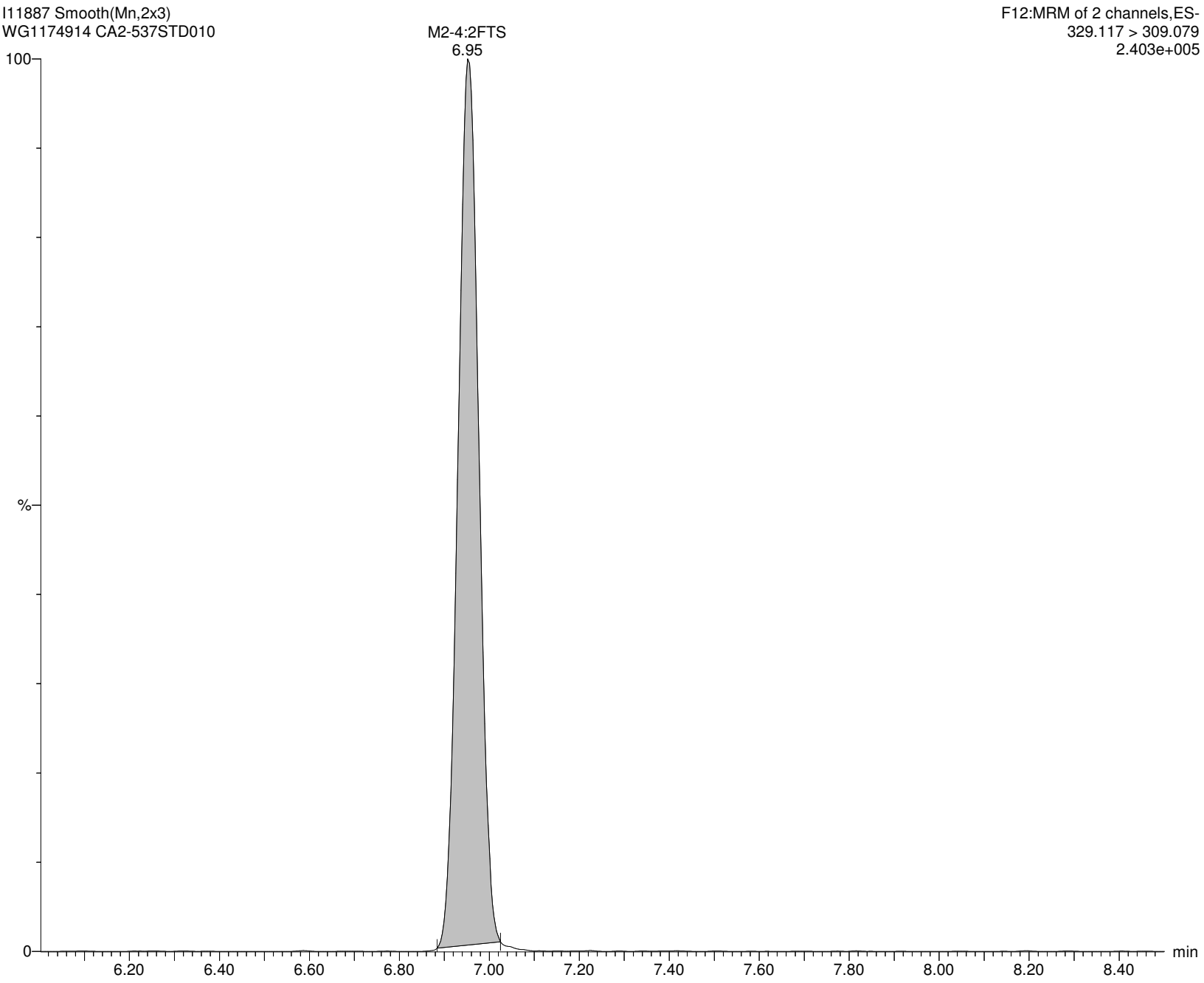

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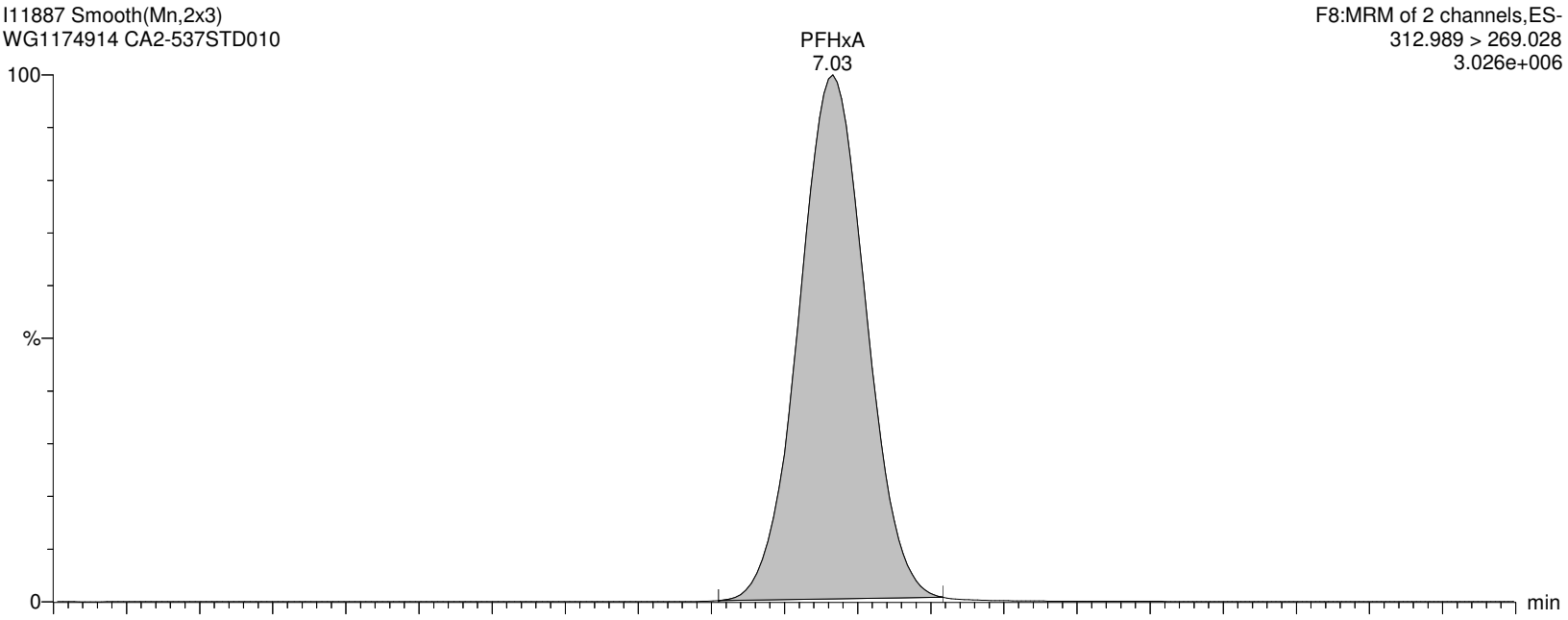

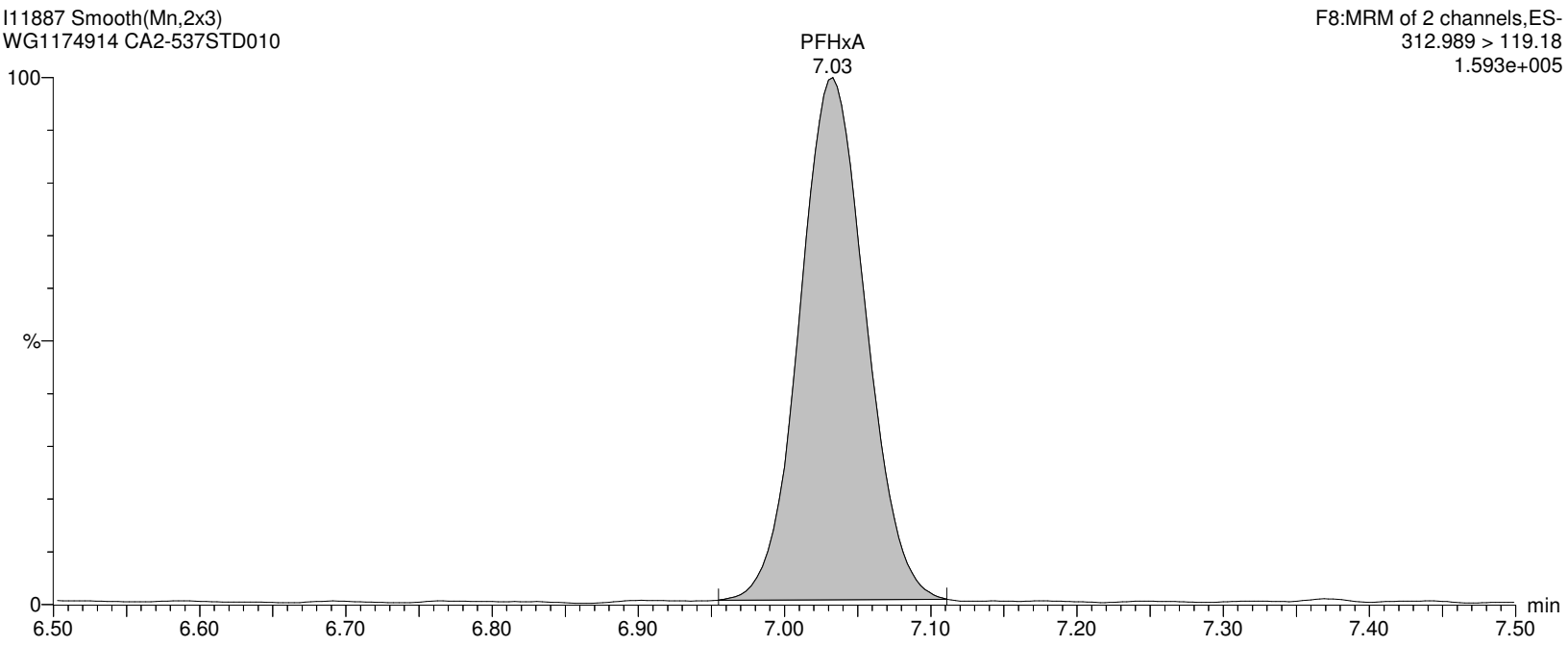

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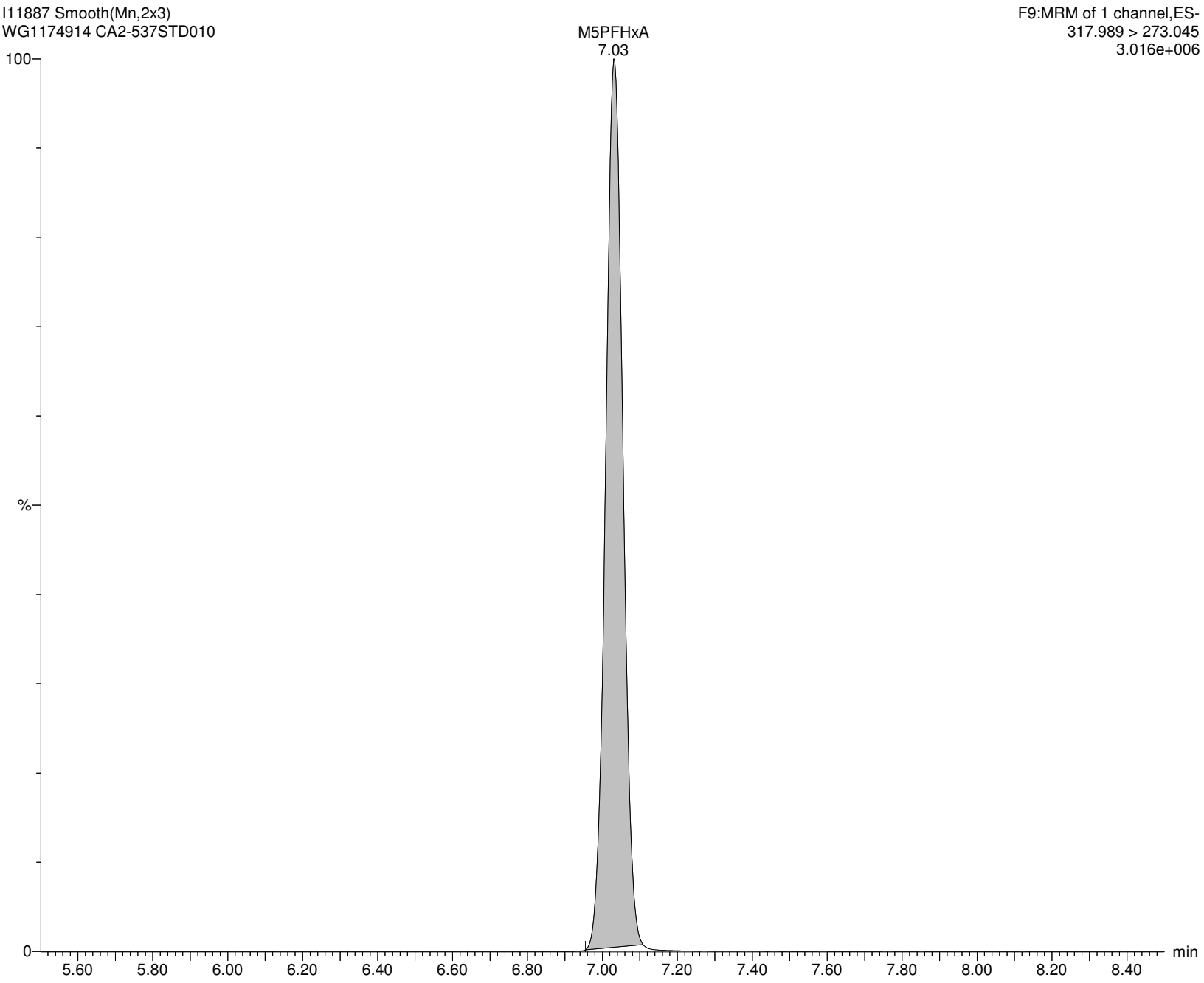

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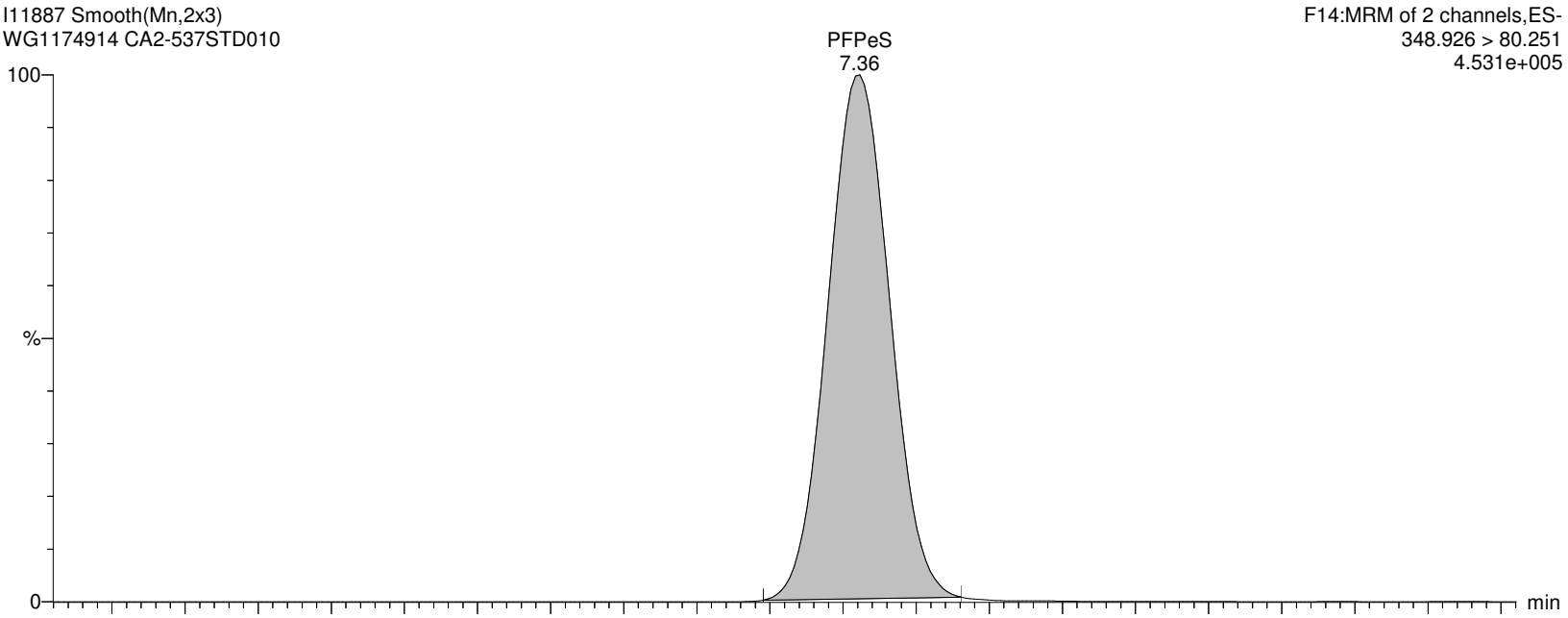

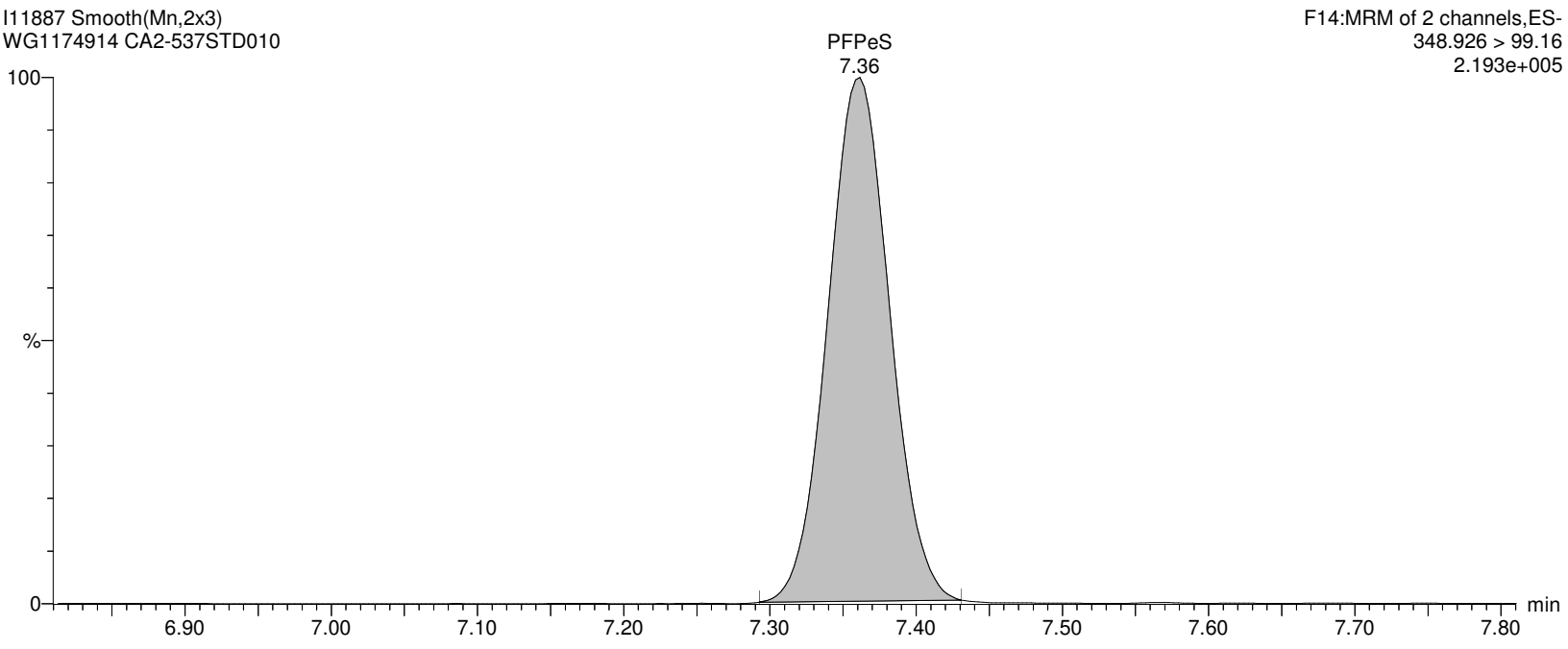

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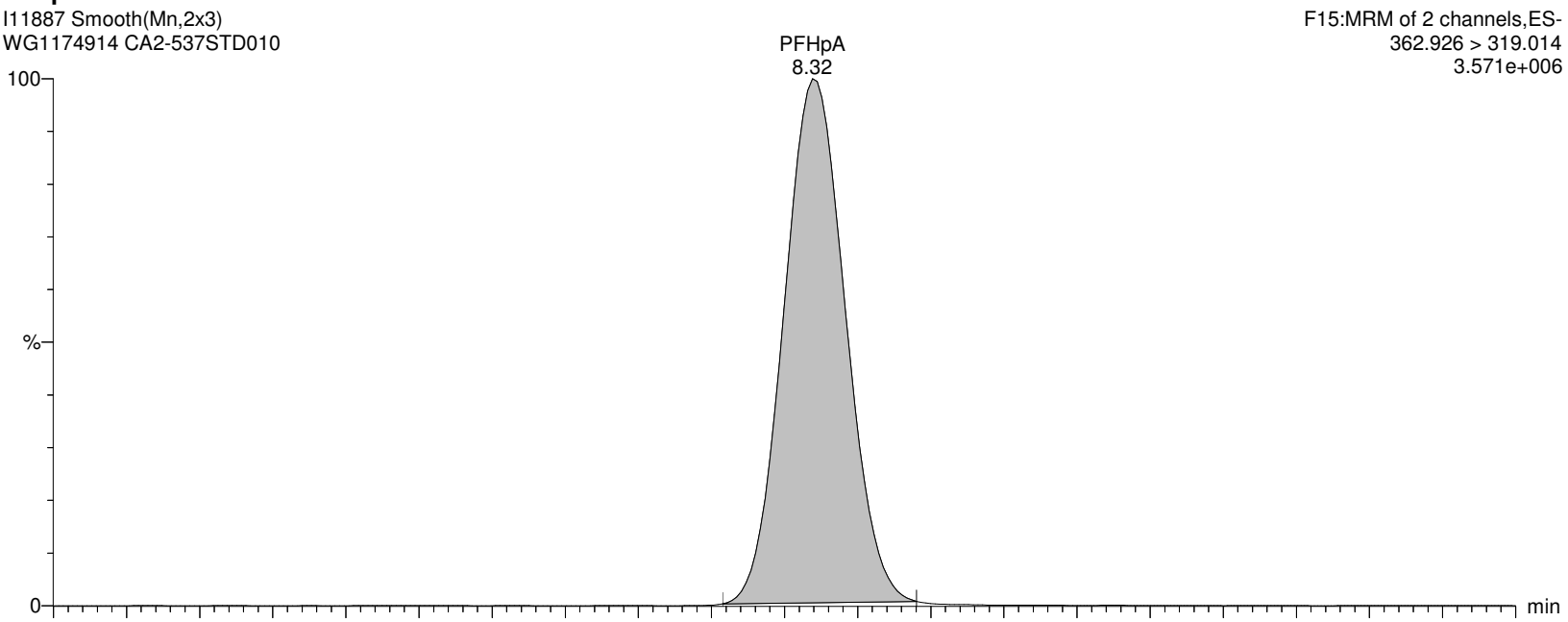

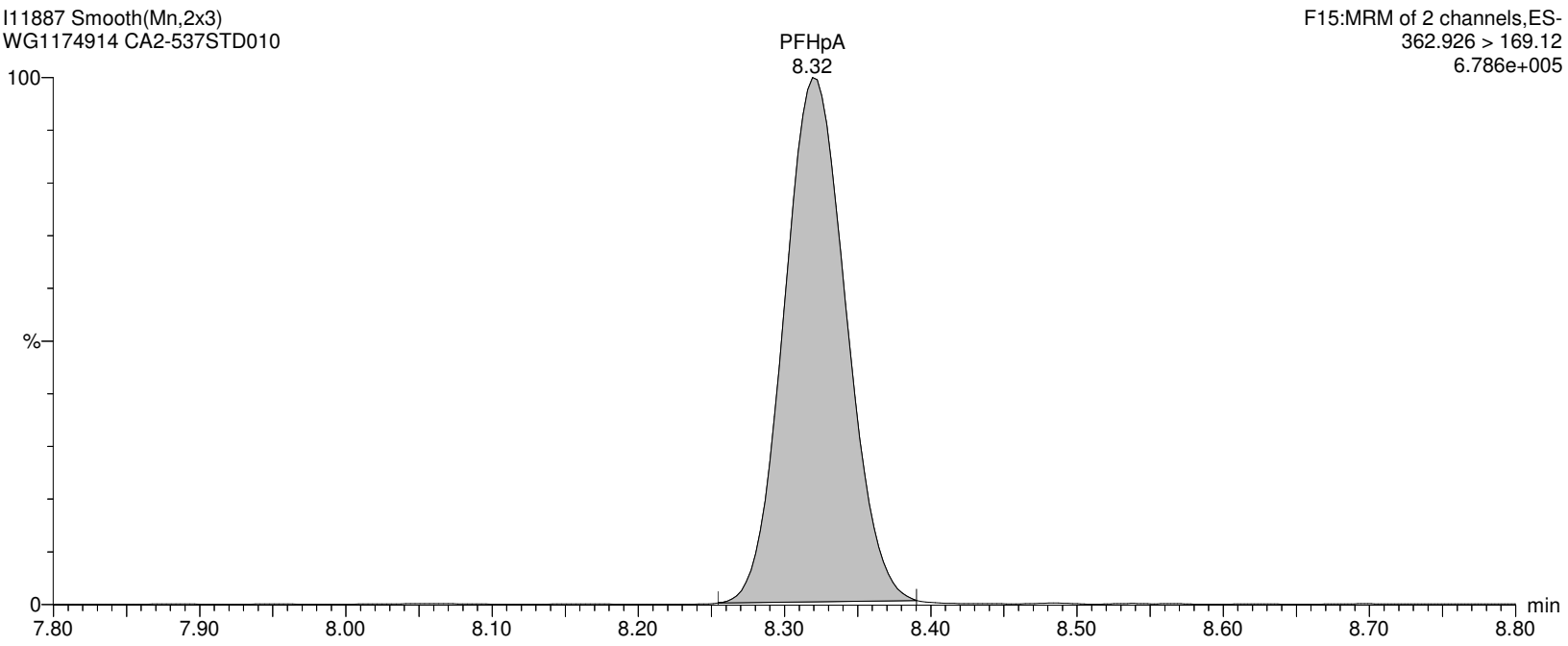

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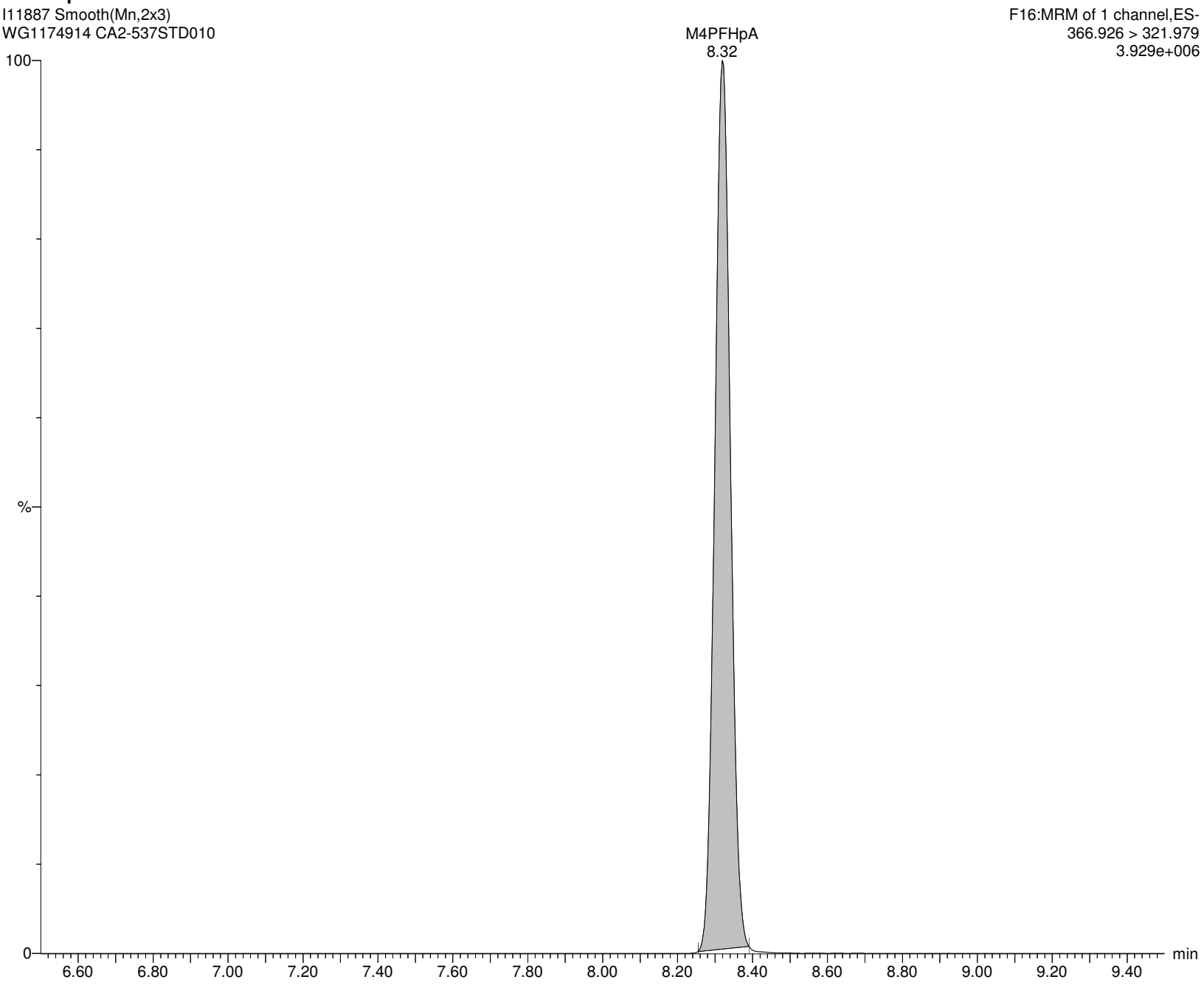

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181101_537ISO.PRO\Data\wg1174914_ICV.qld
Last Altered: Thursday, November 01, 2018 20:36:53 Eastern Daylight Time
Printed: Thursday, November 01, 2018 20:37:25 Eastern Daylight Time

Name: I11887
ID: CA2-537STD010
Date: 01-Nov-2018
Time: 19:31:25
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181101_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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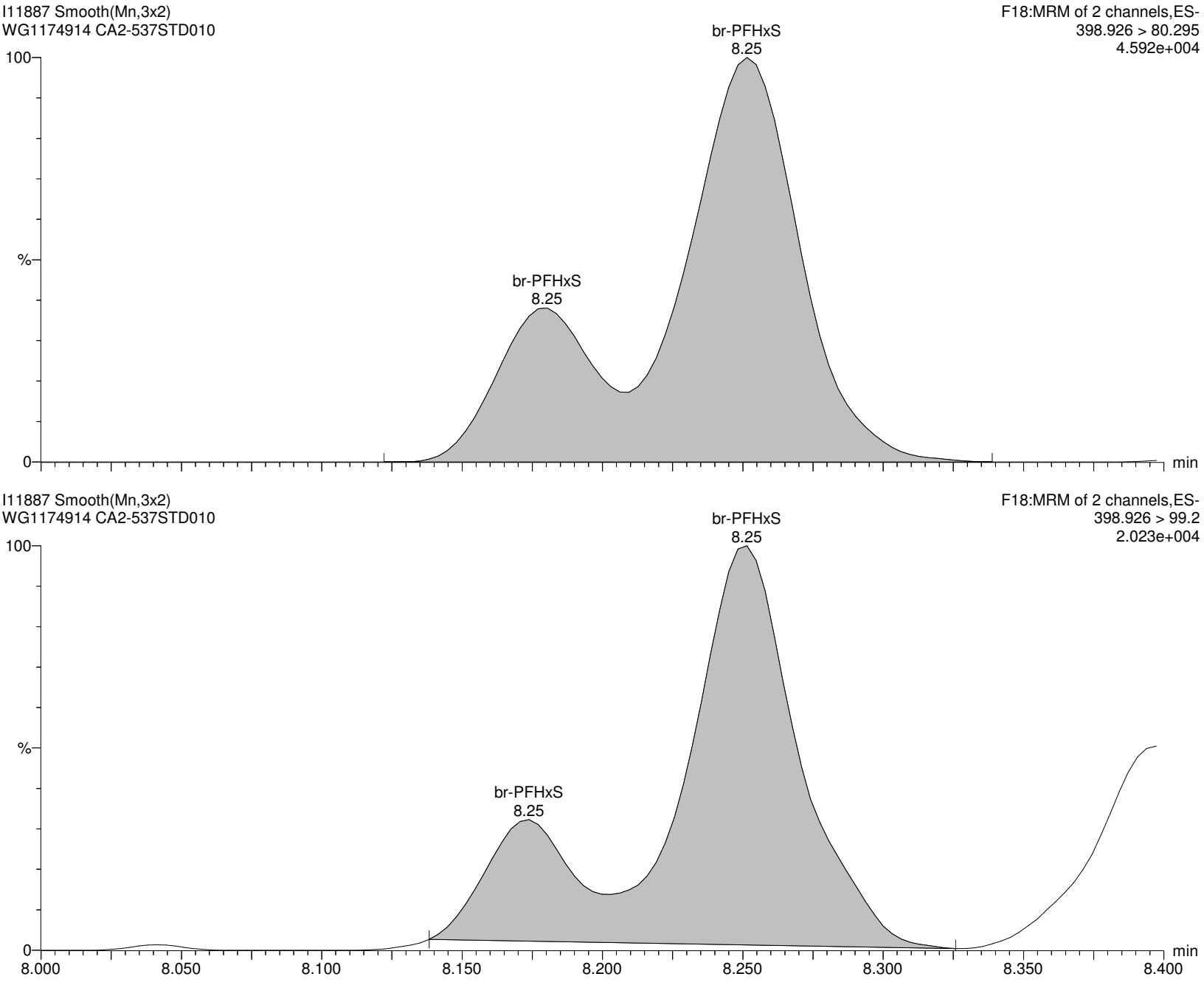

all concentration units in (ng/mL)

Alpha Analytical Inc.
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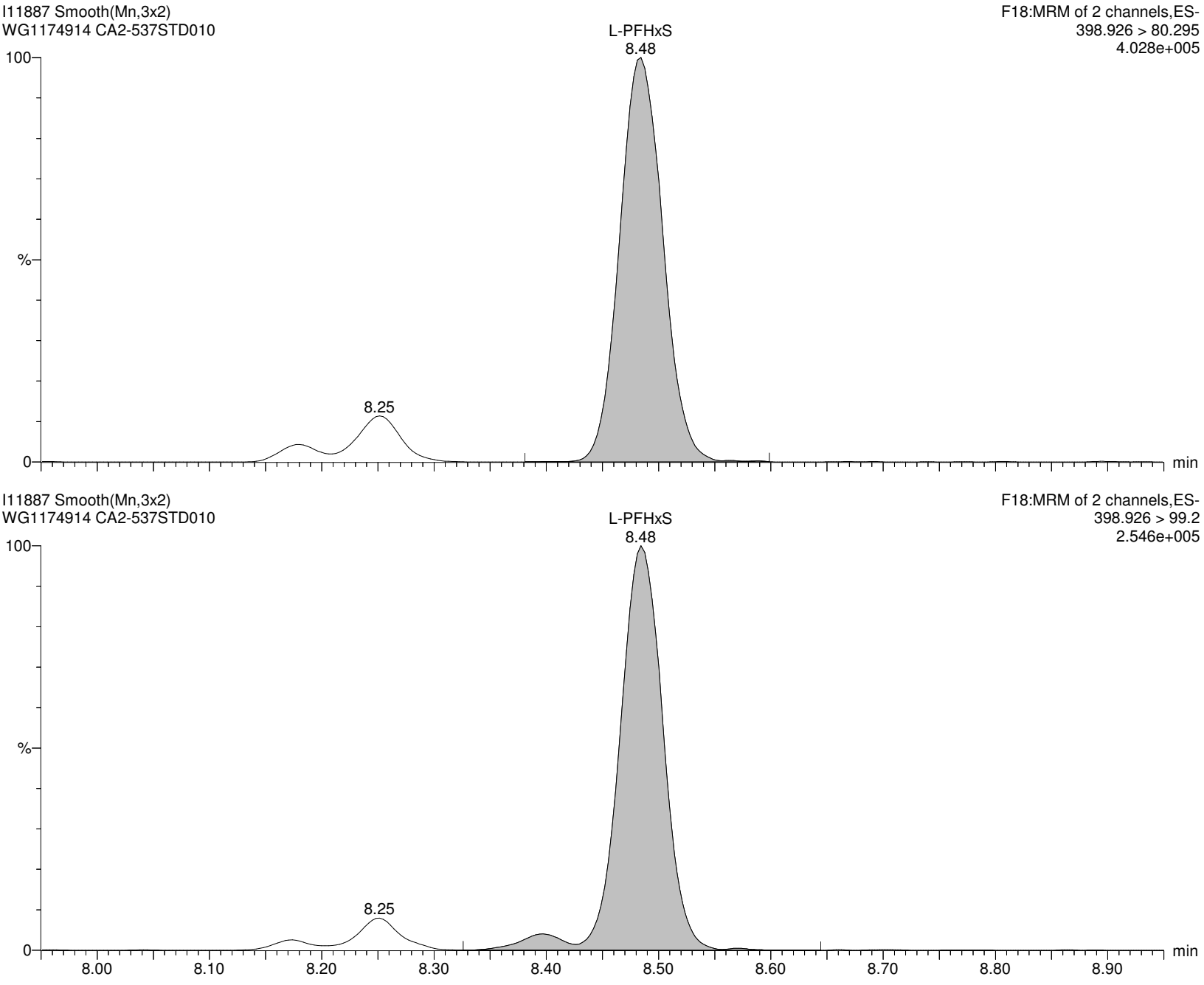

all concentration units in (ng/mL)

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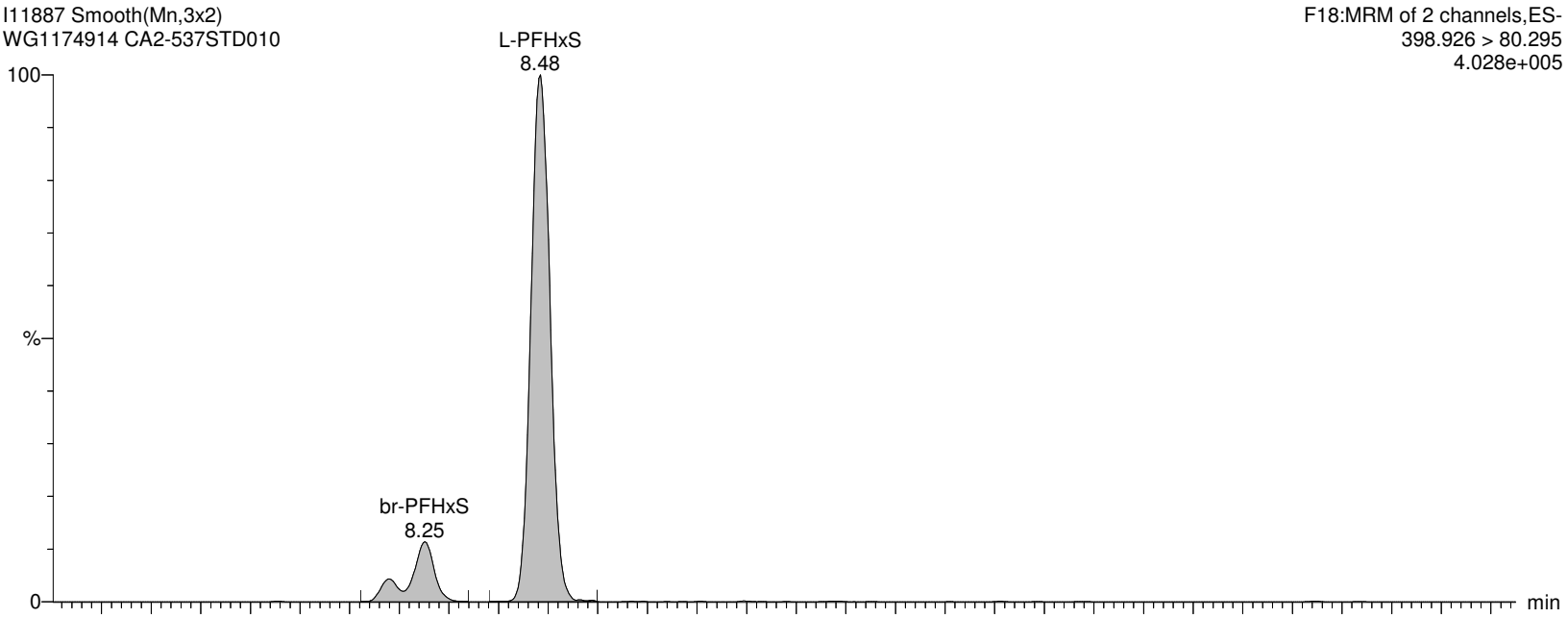

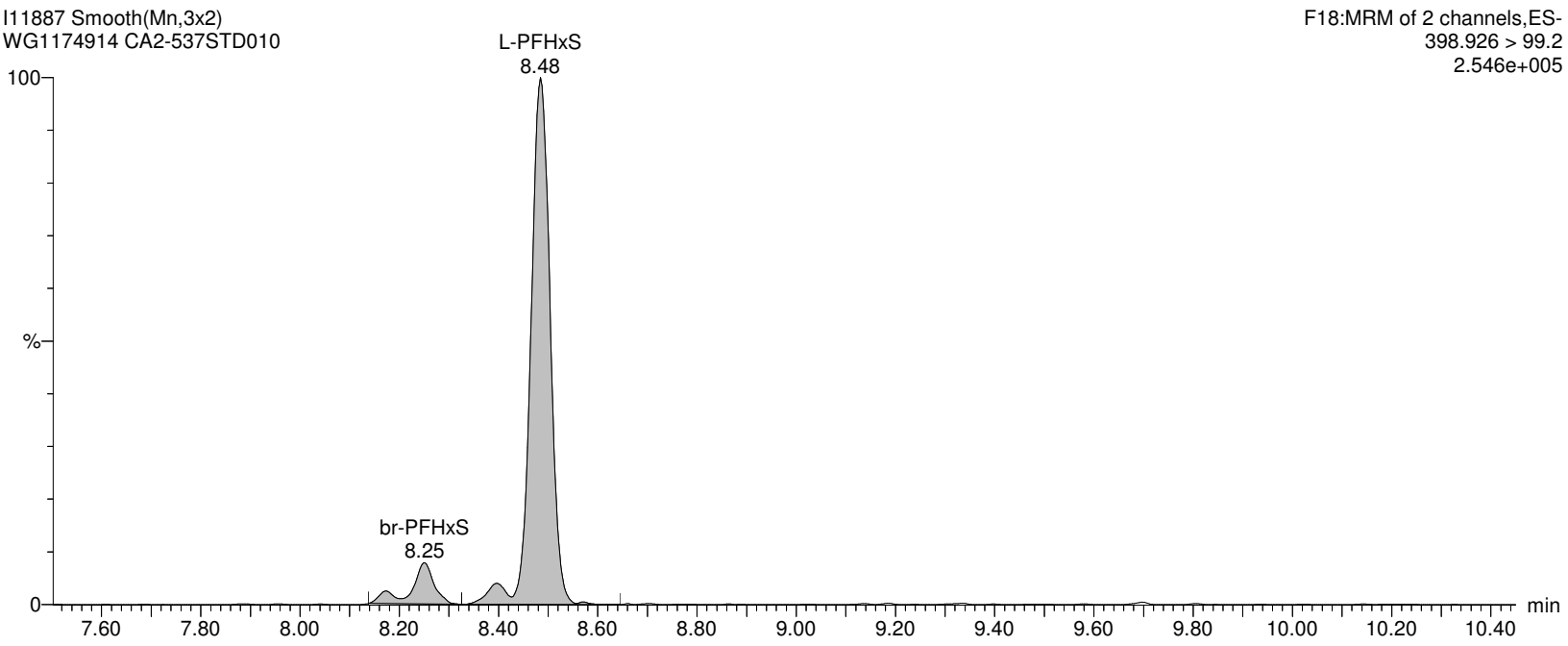

all concentration units in (ng/mL)

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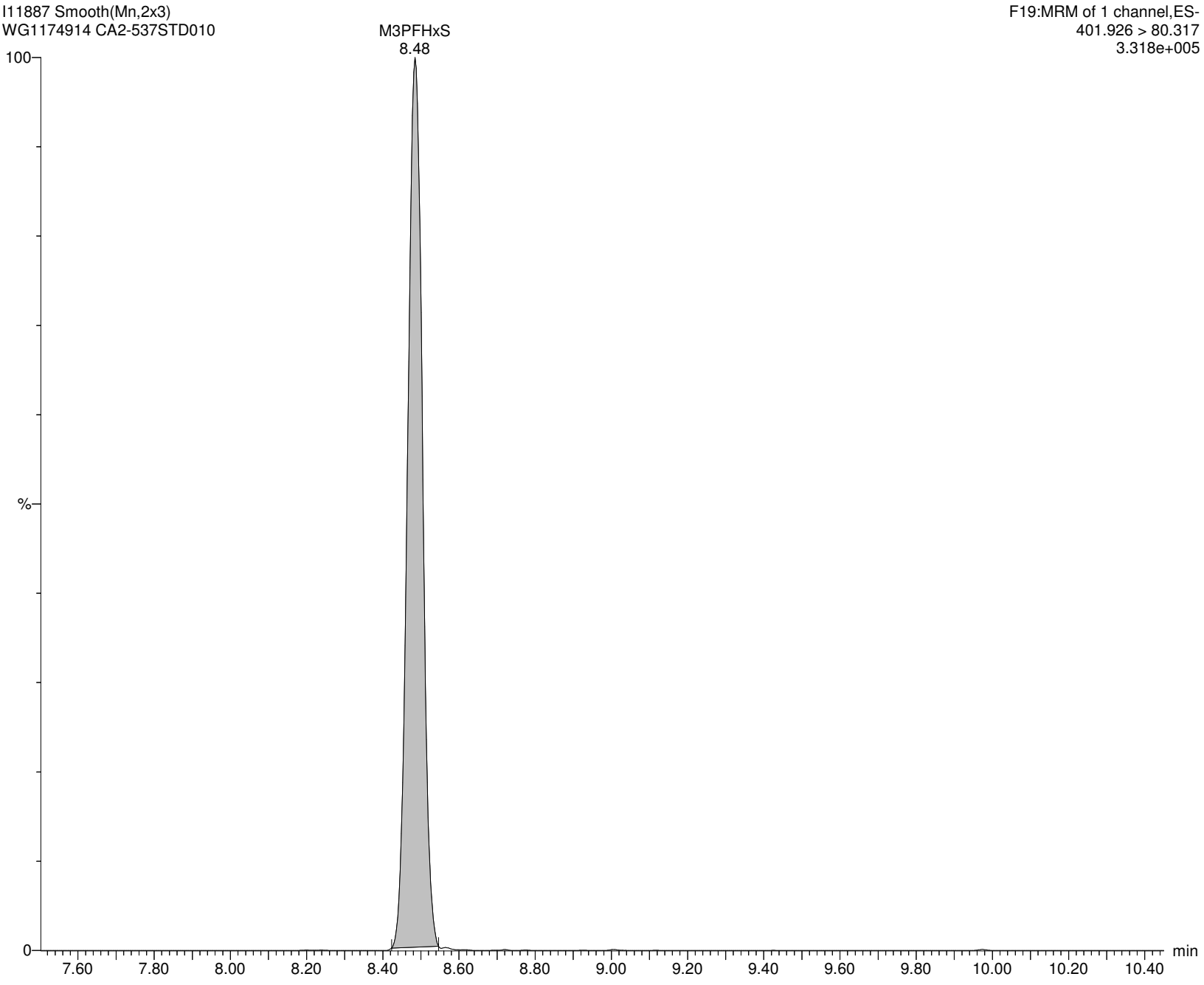

all concentration units in (ng/mL)

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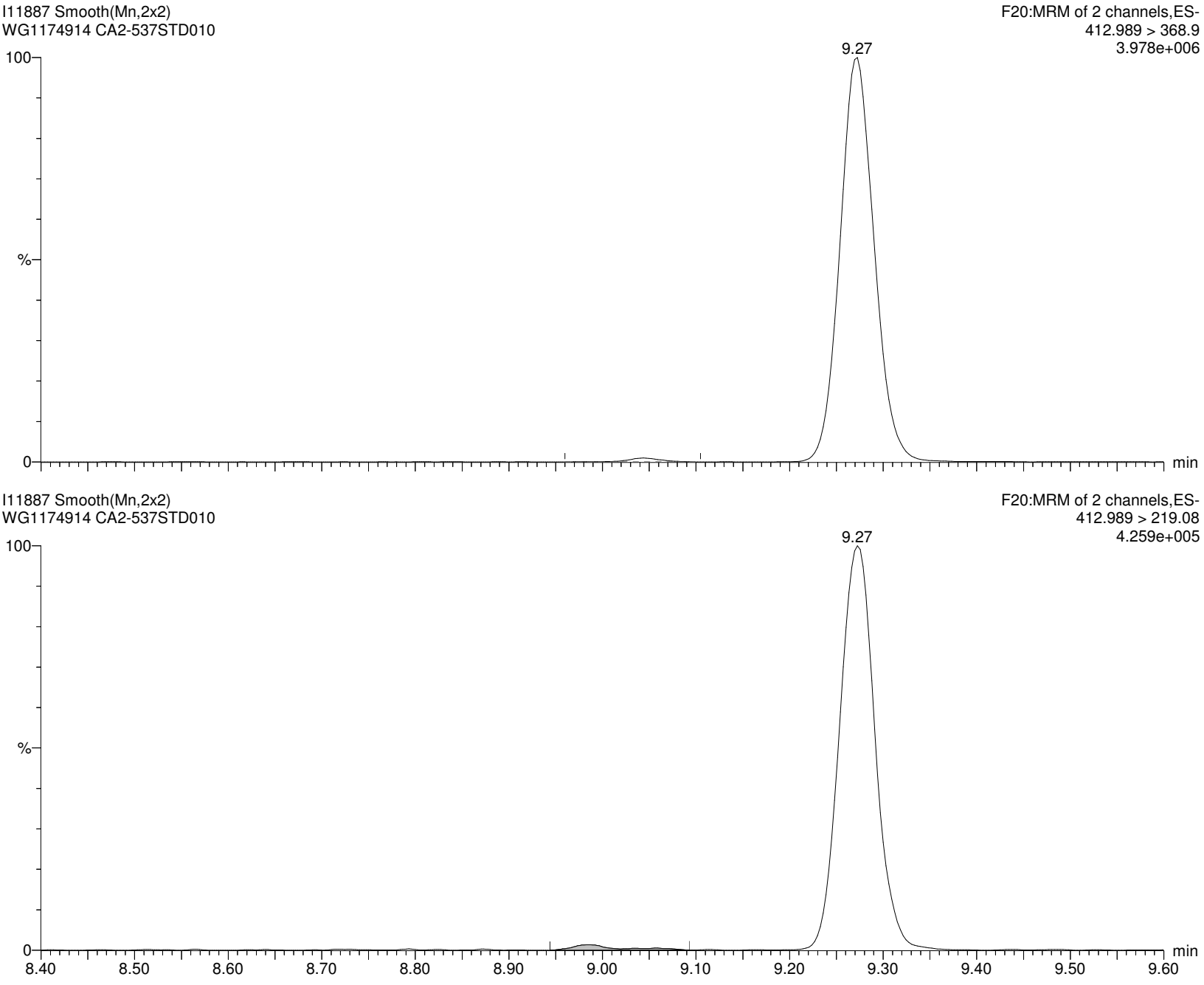

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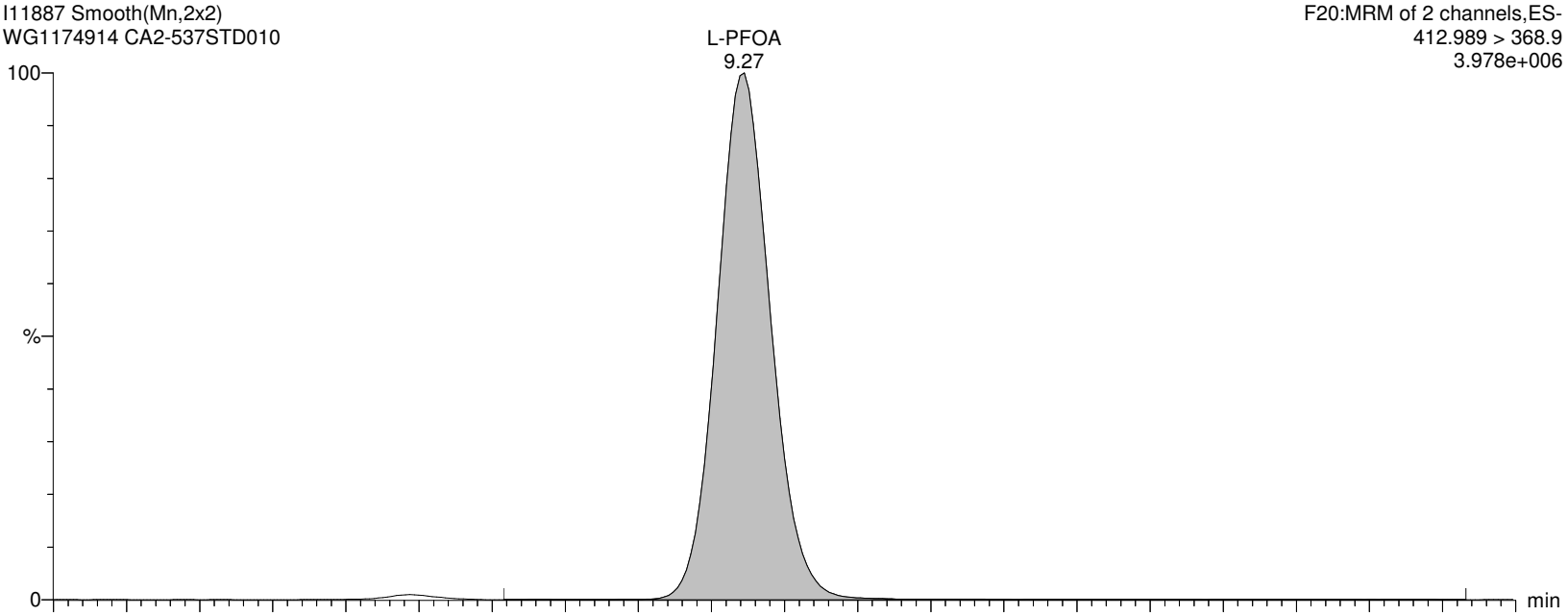

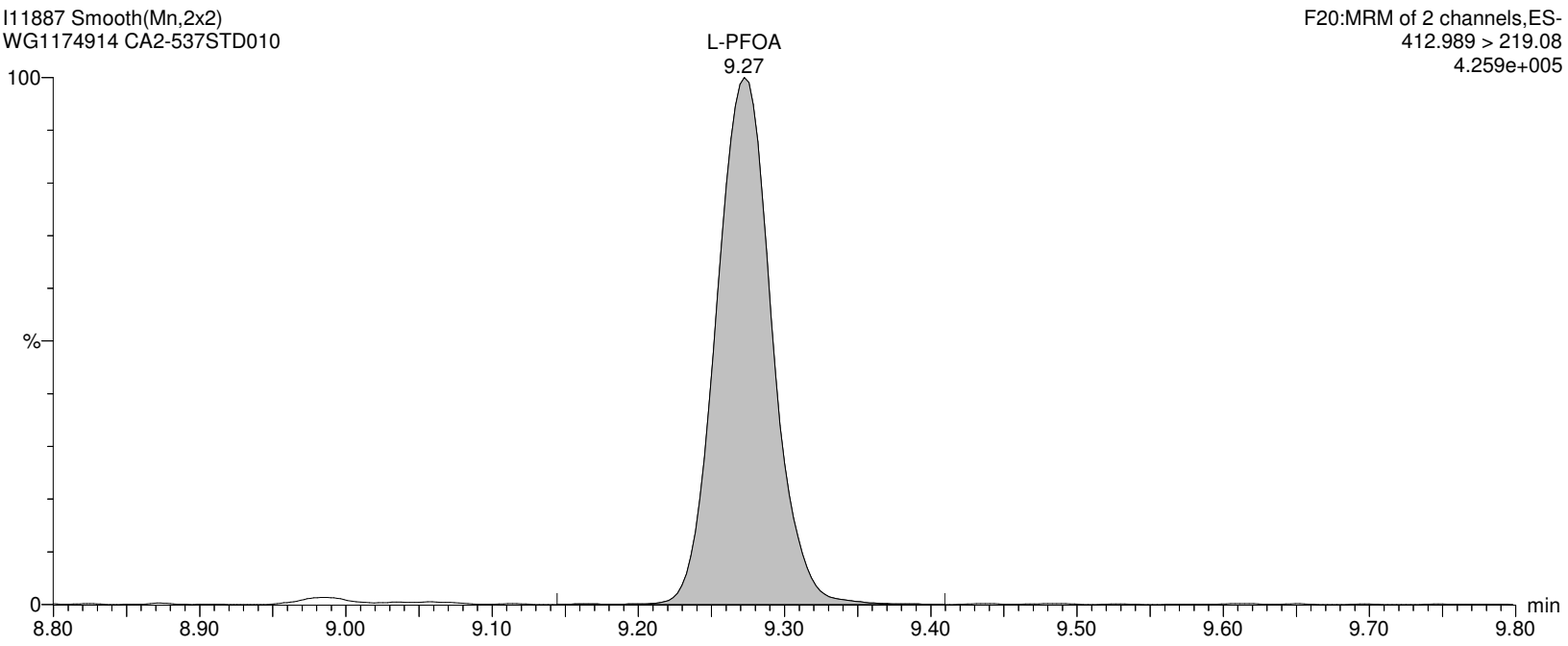

all concentration units in (ng/mL)

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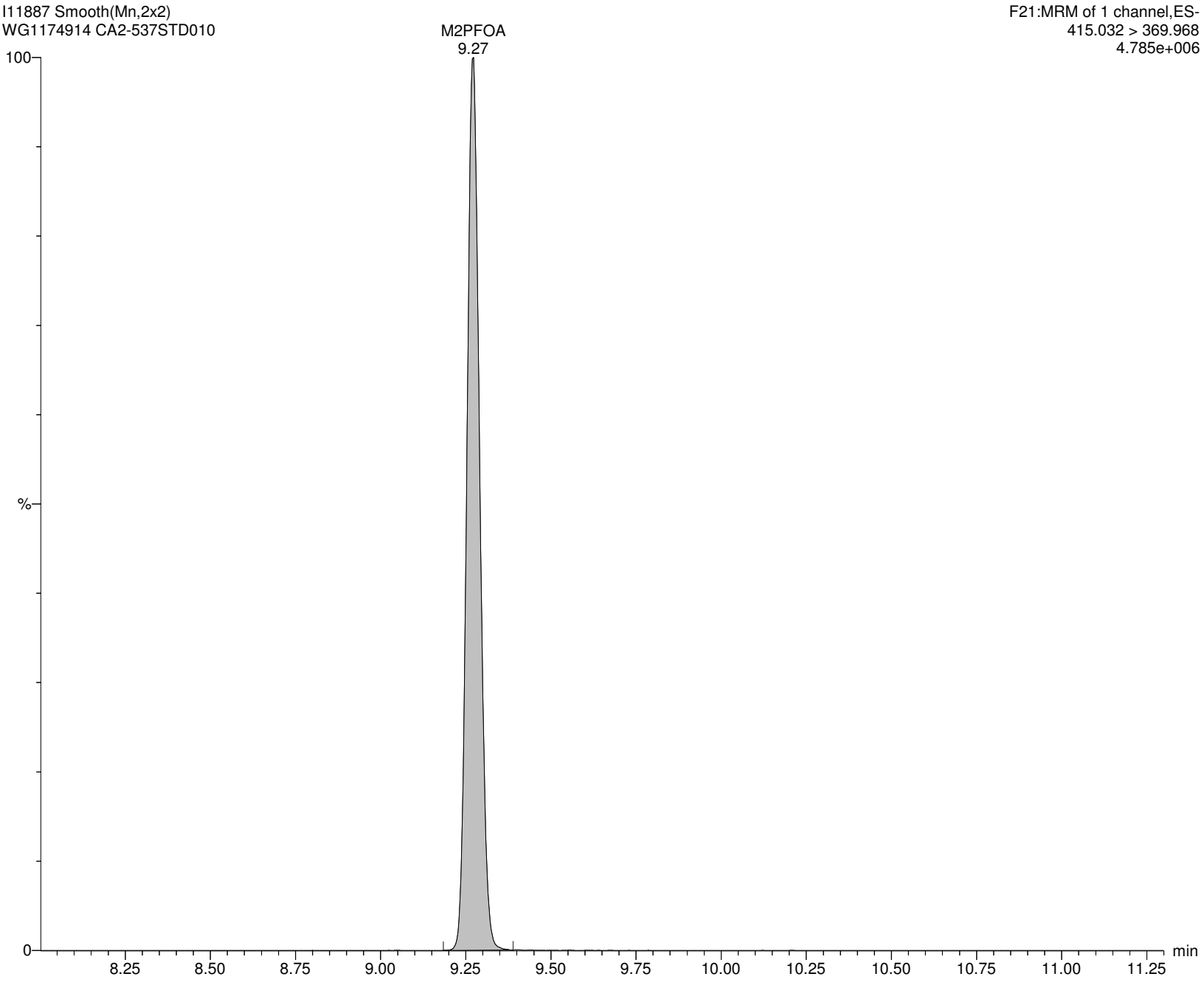

all concentration units in (ng/mL)

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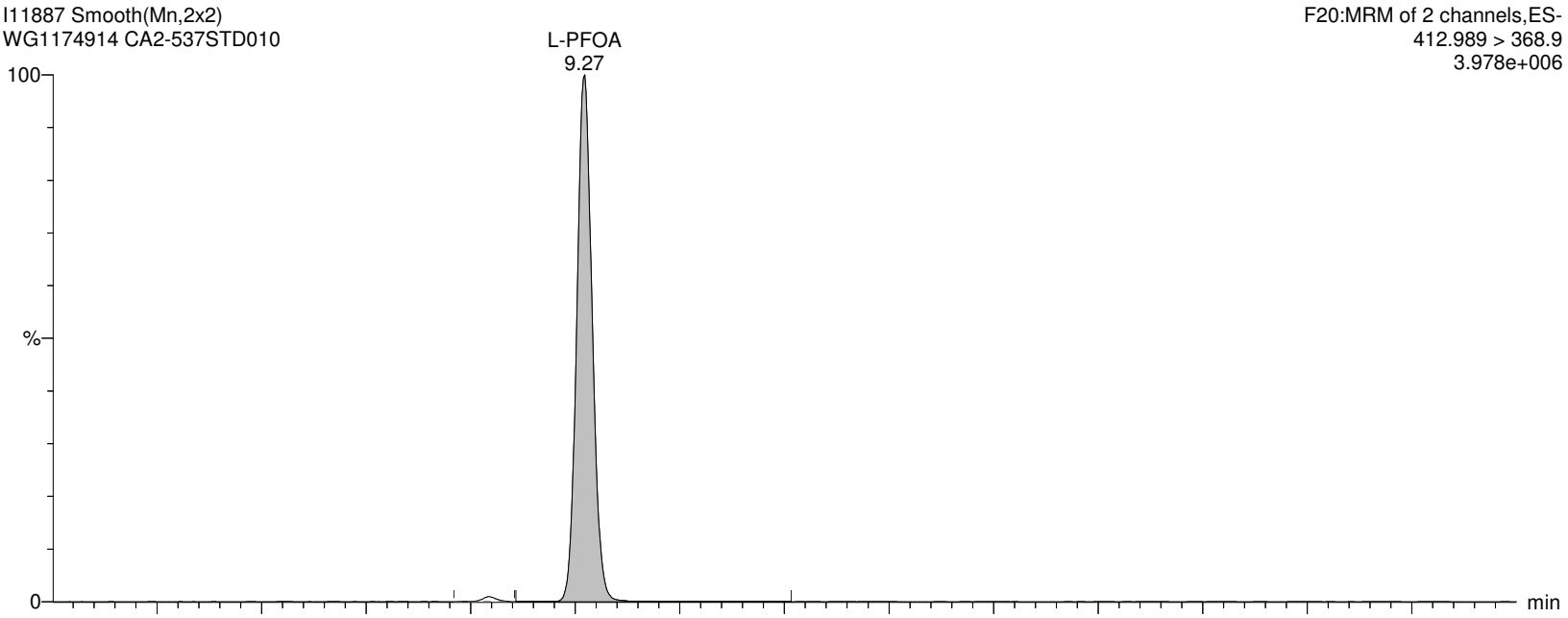

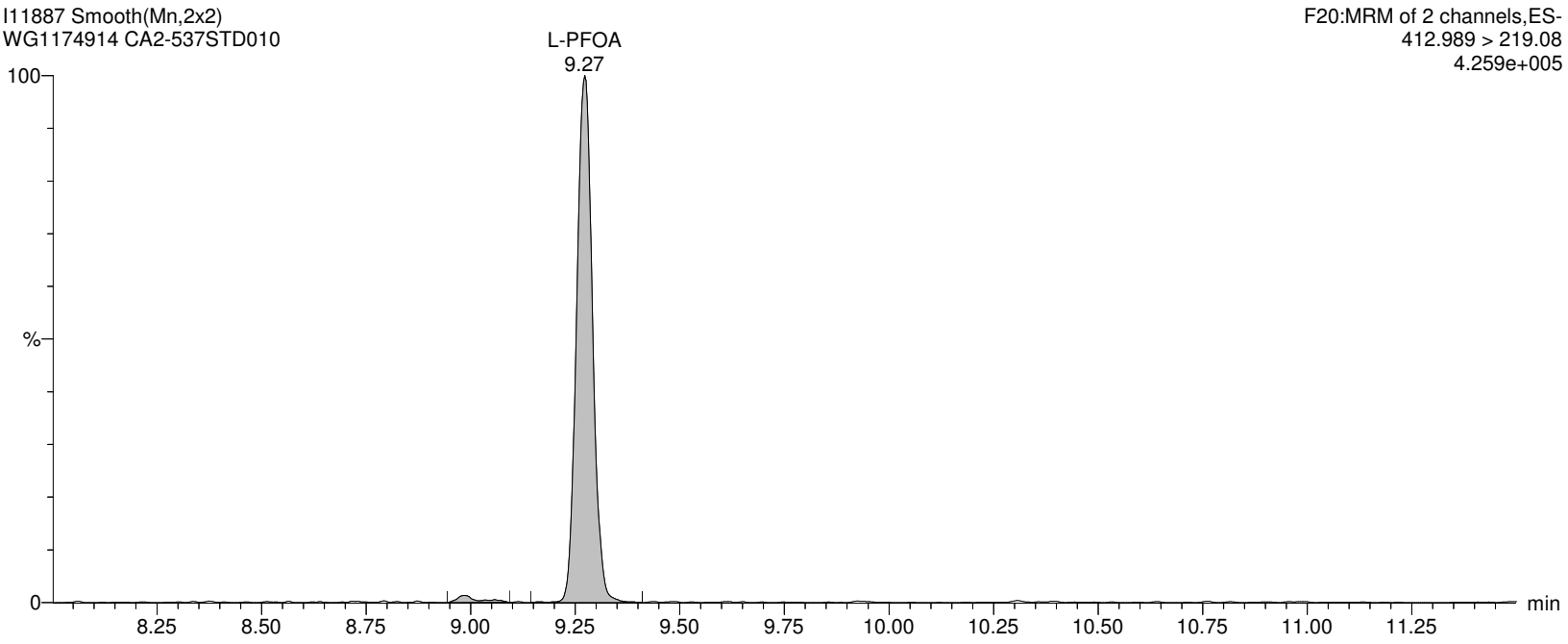

all concentration units in (ng/mL)

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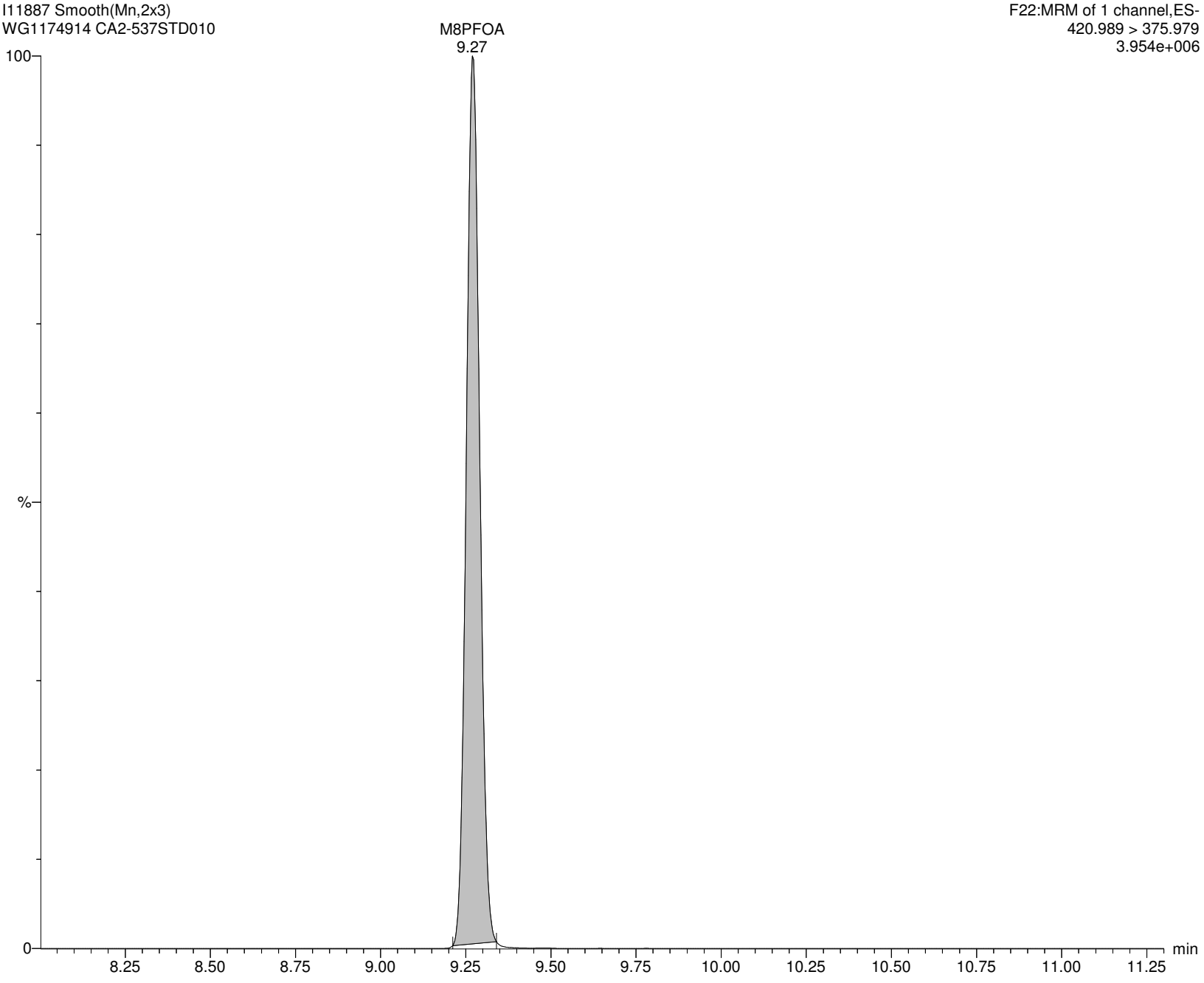

all concentration units in (ng/mL)

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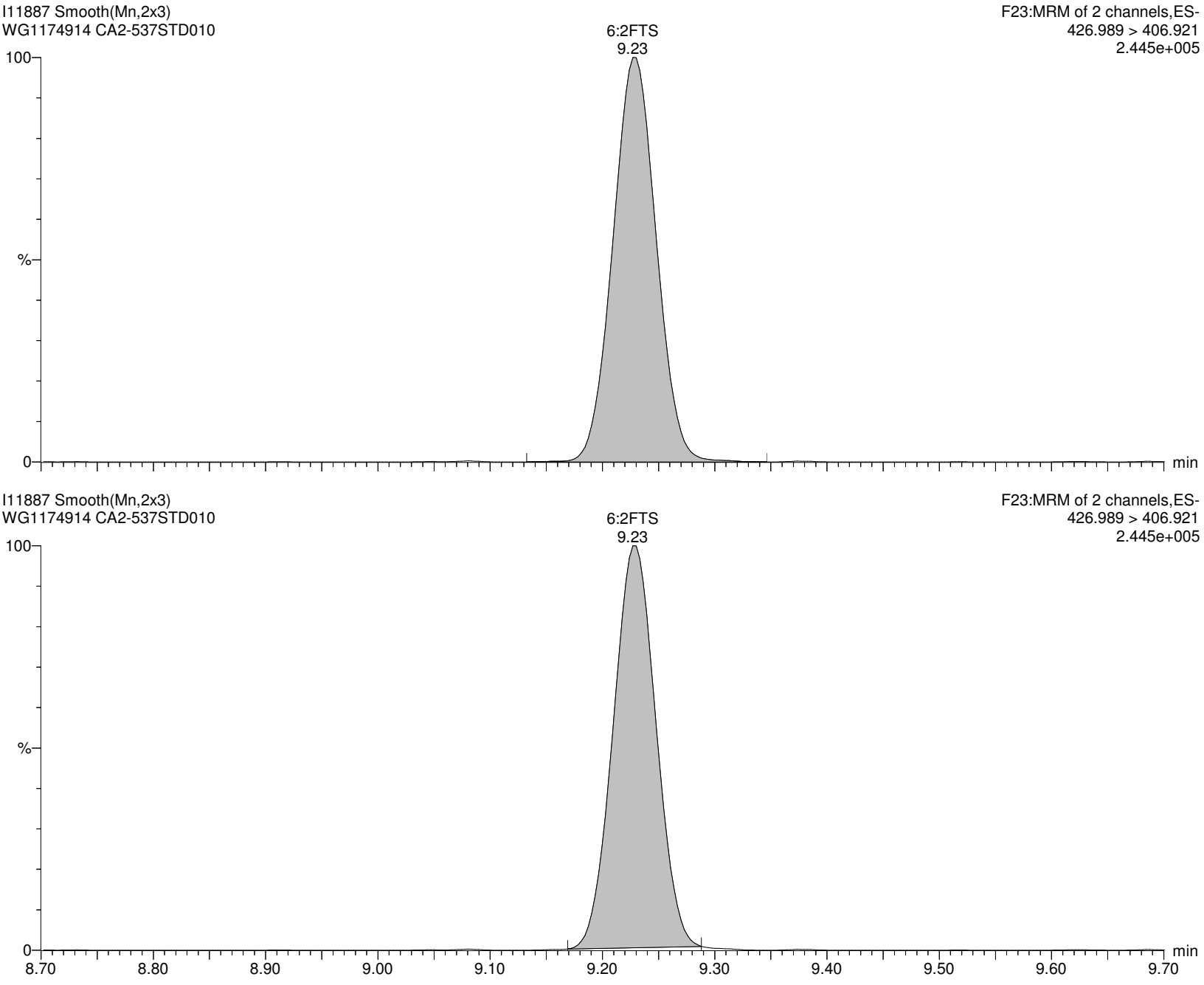

all concentration units in (ng/mL)

Alpha Analytical Inc.
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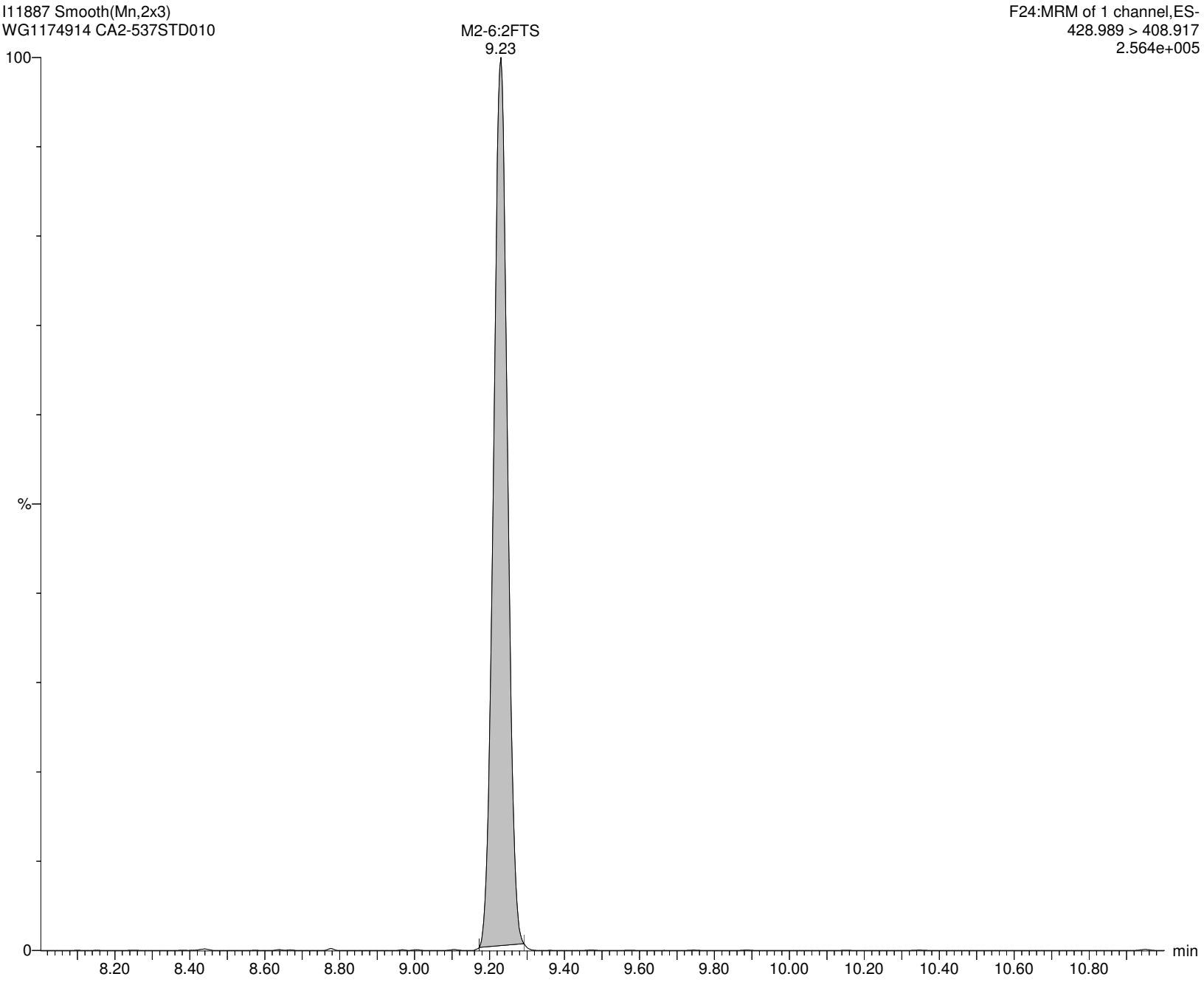

all concentration units in (ng/mL)

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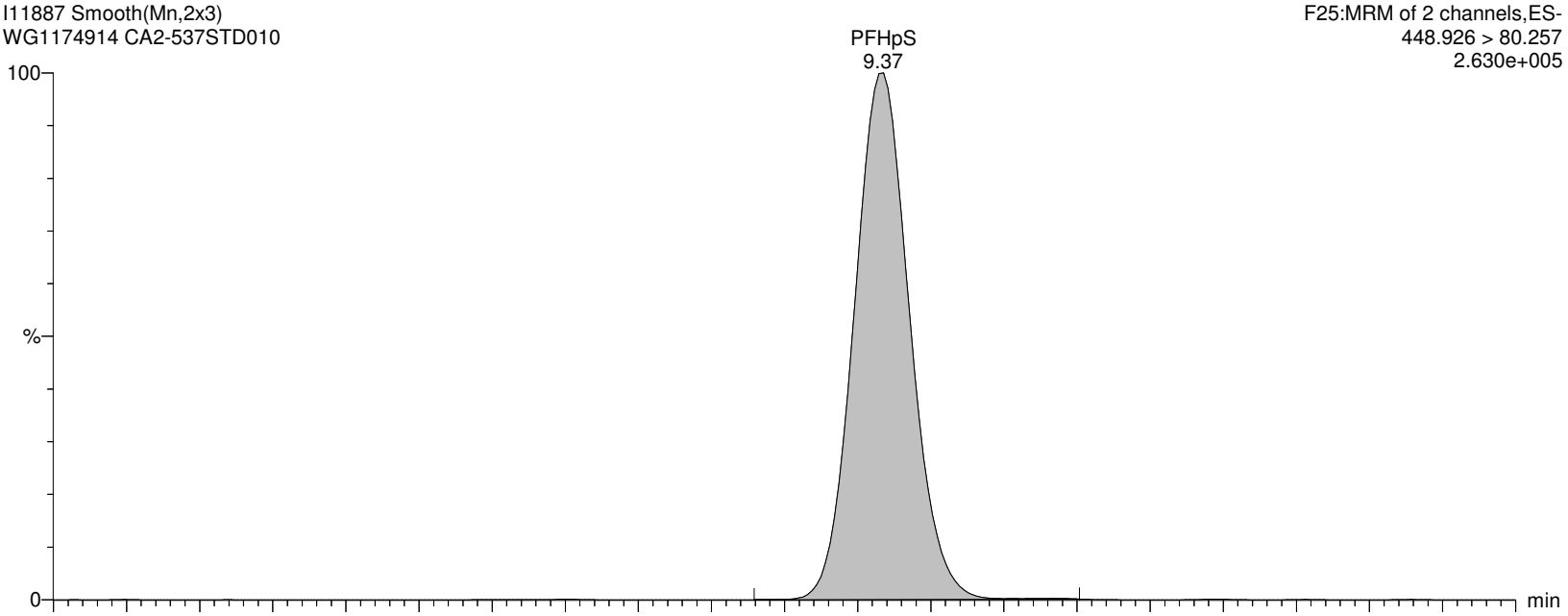

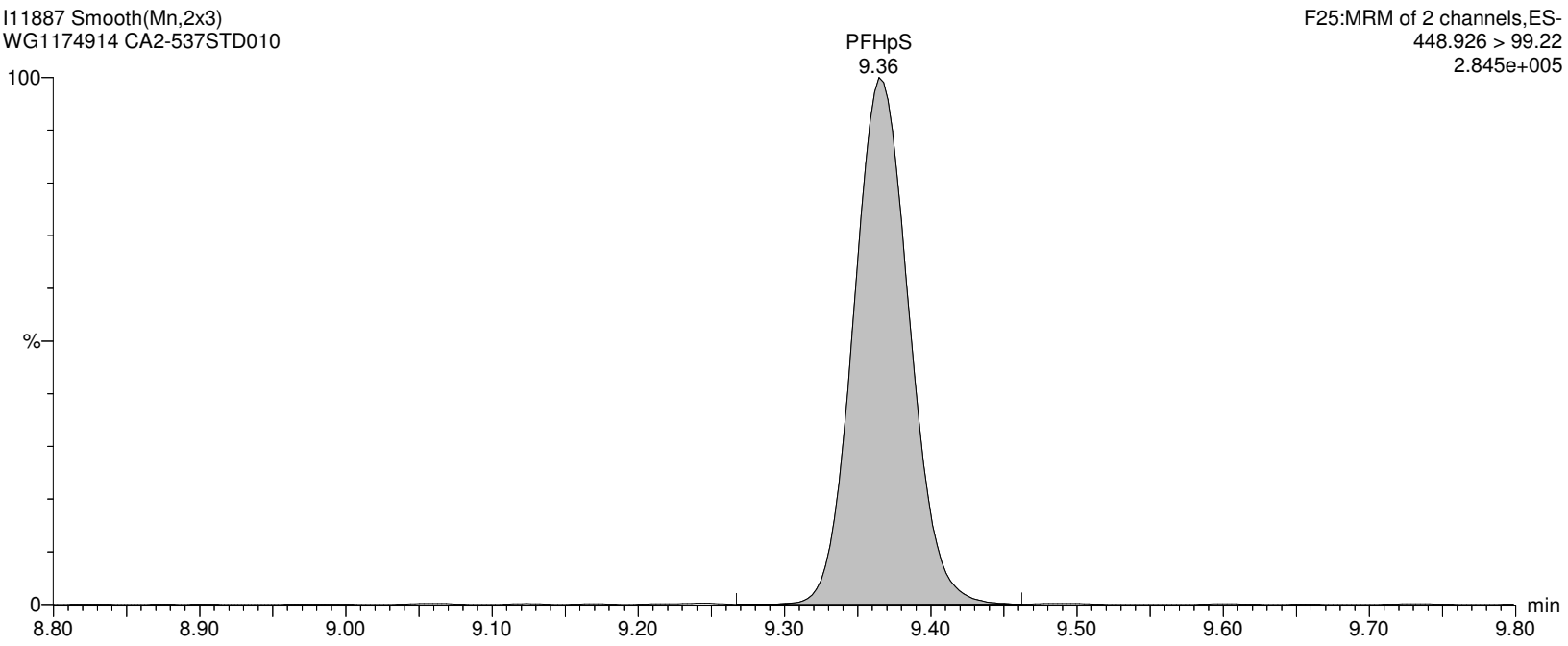

all concentration units in (ng/mL)

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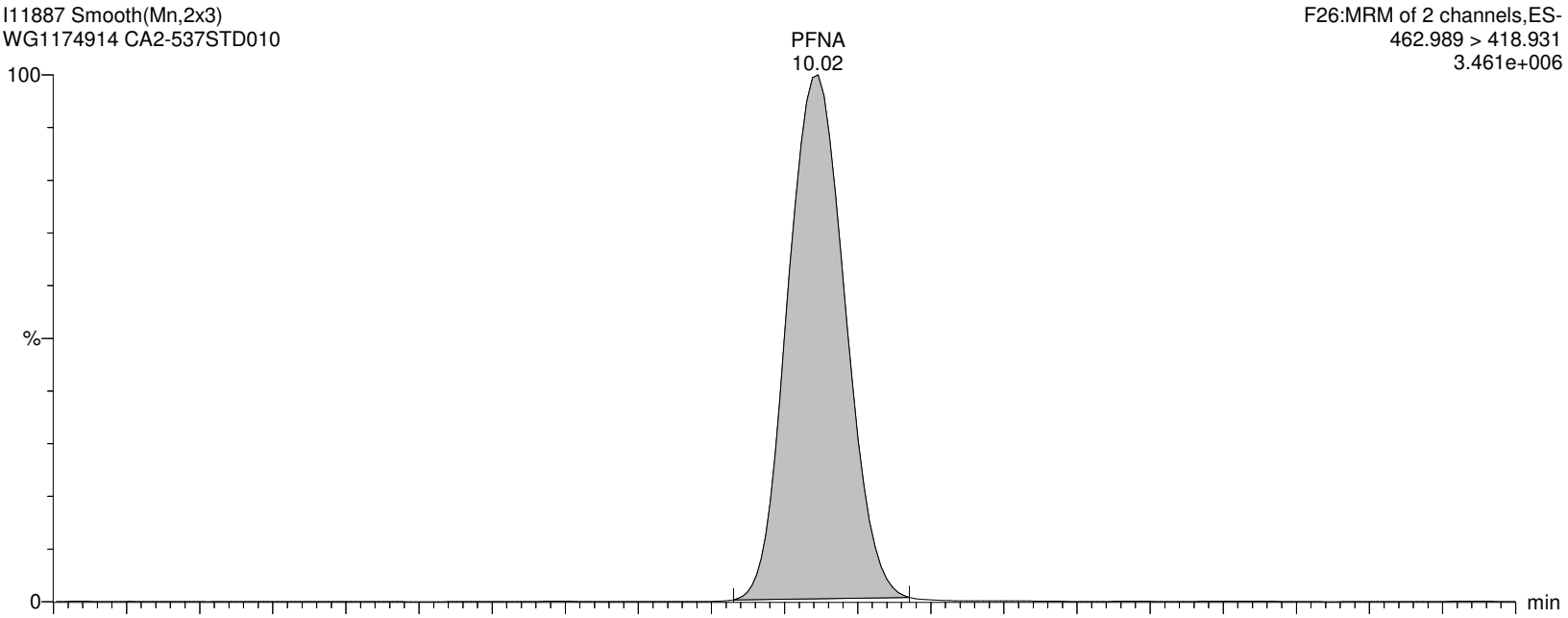

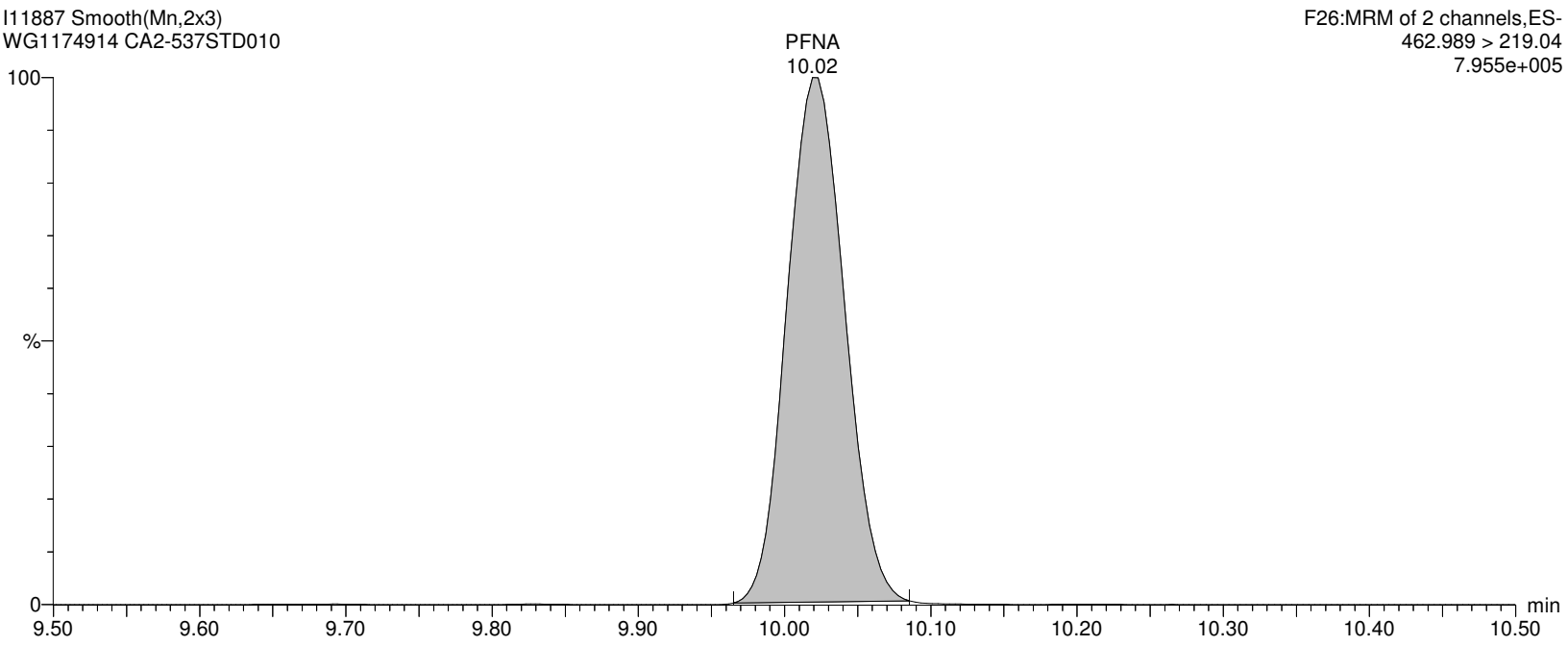

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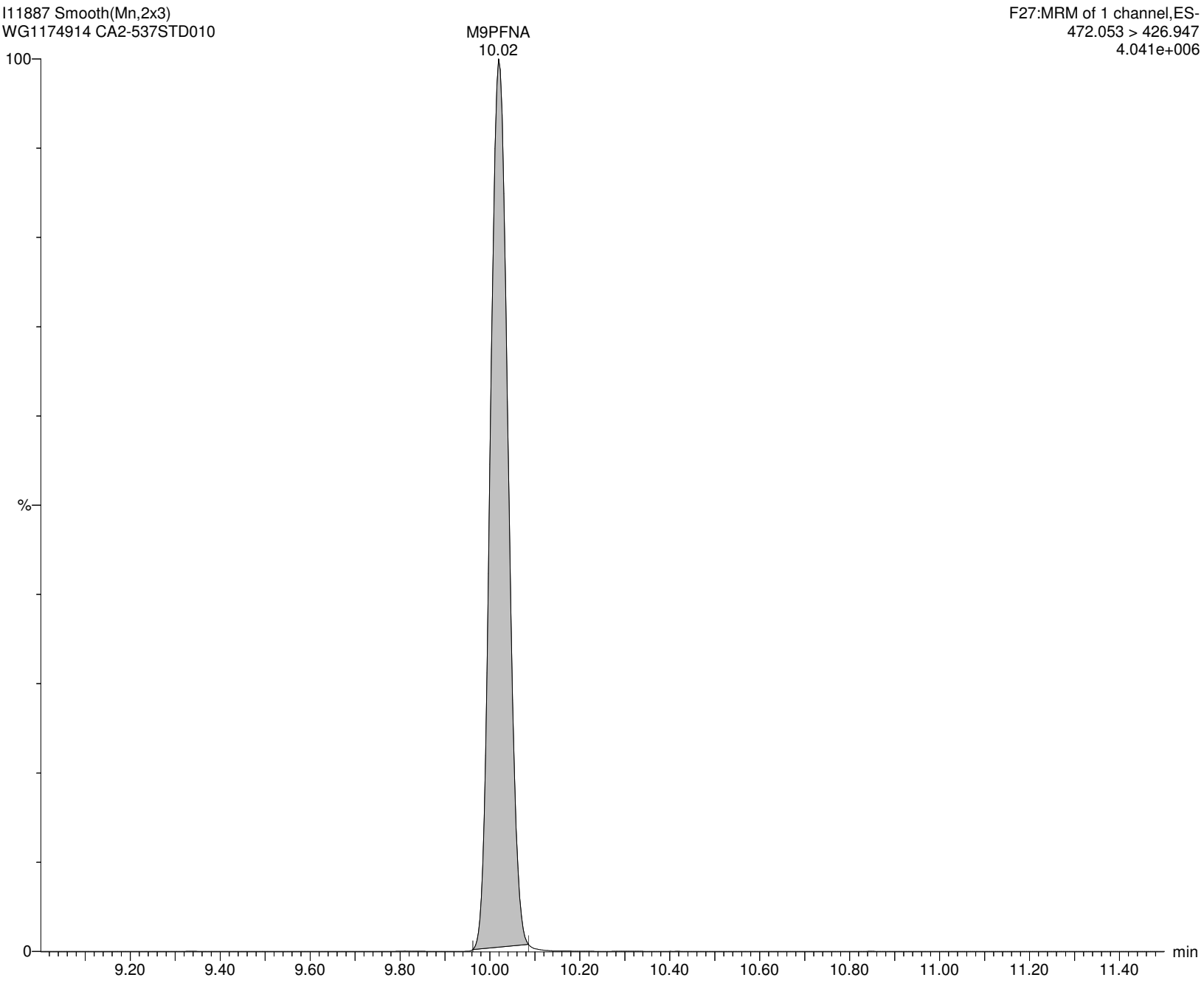

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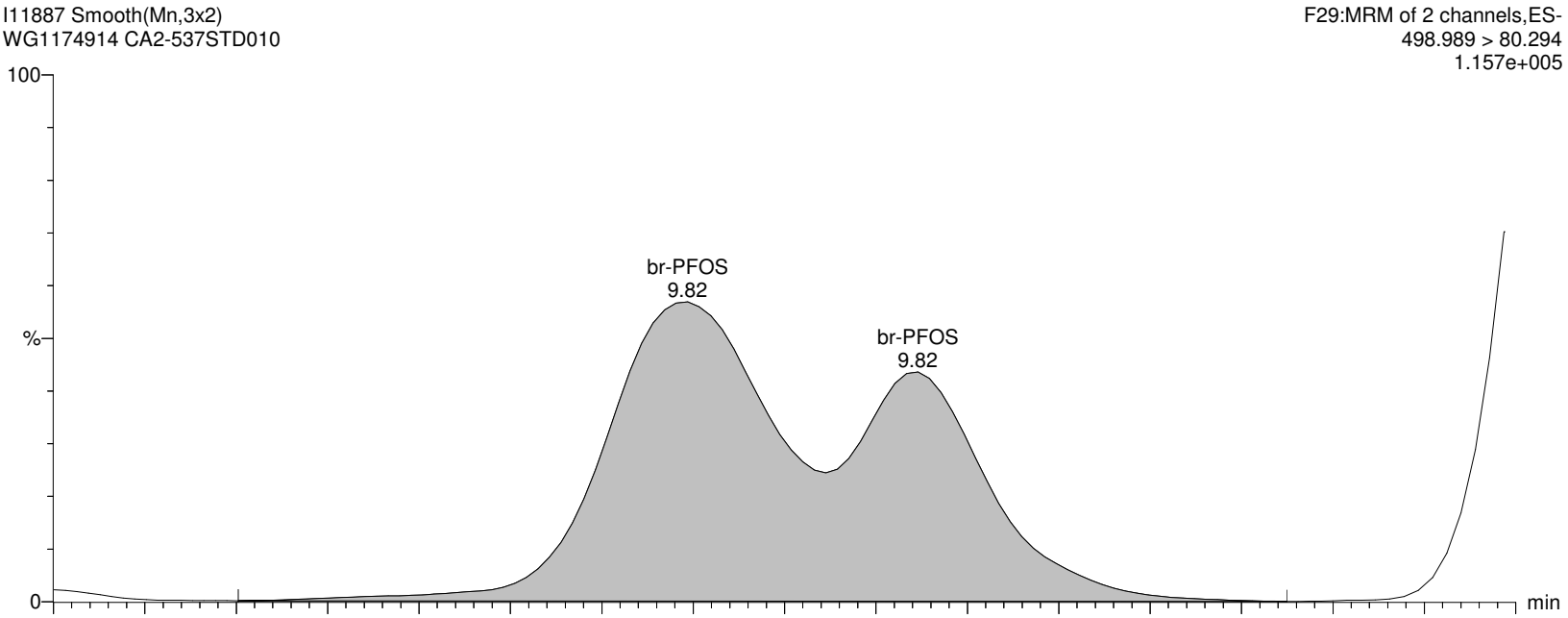

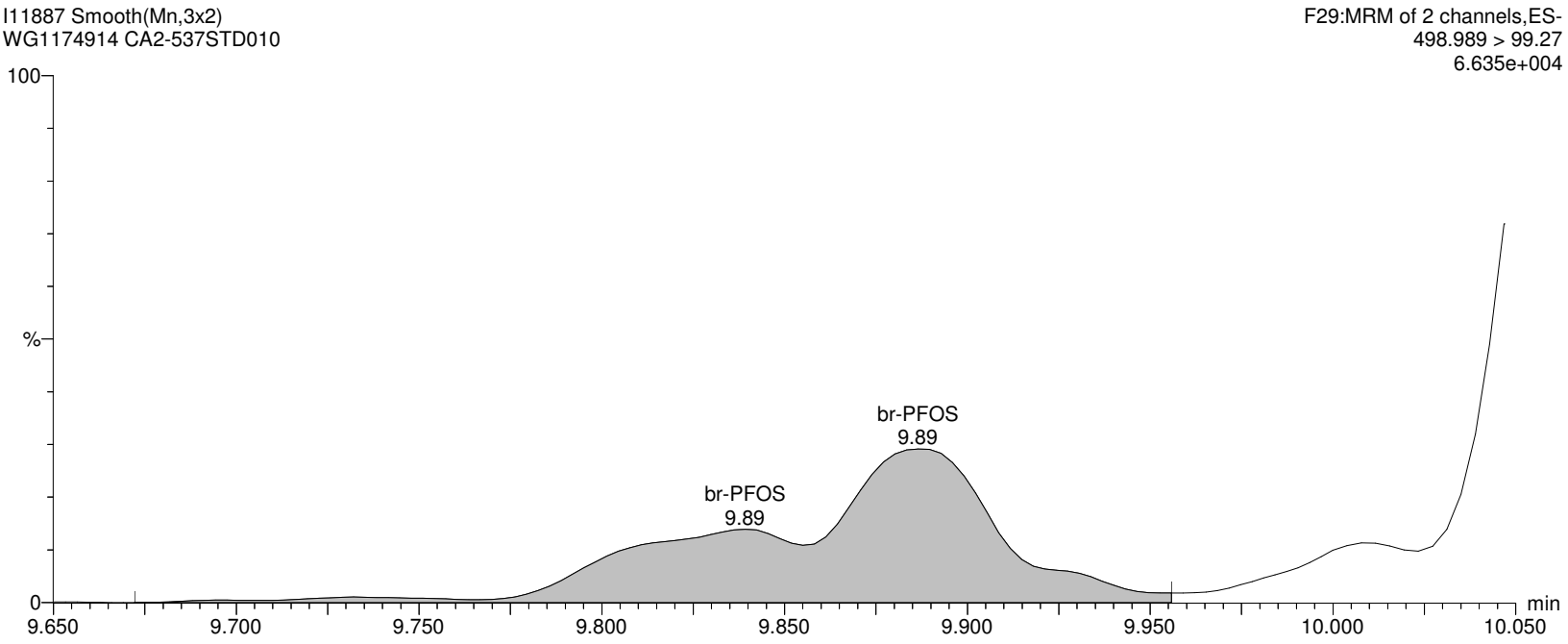

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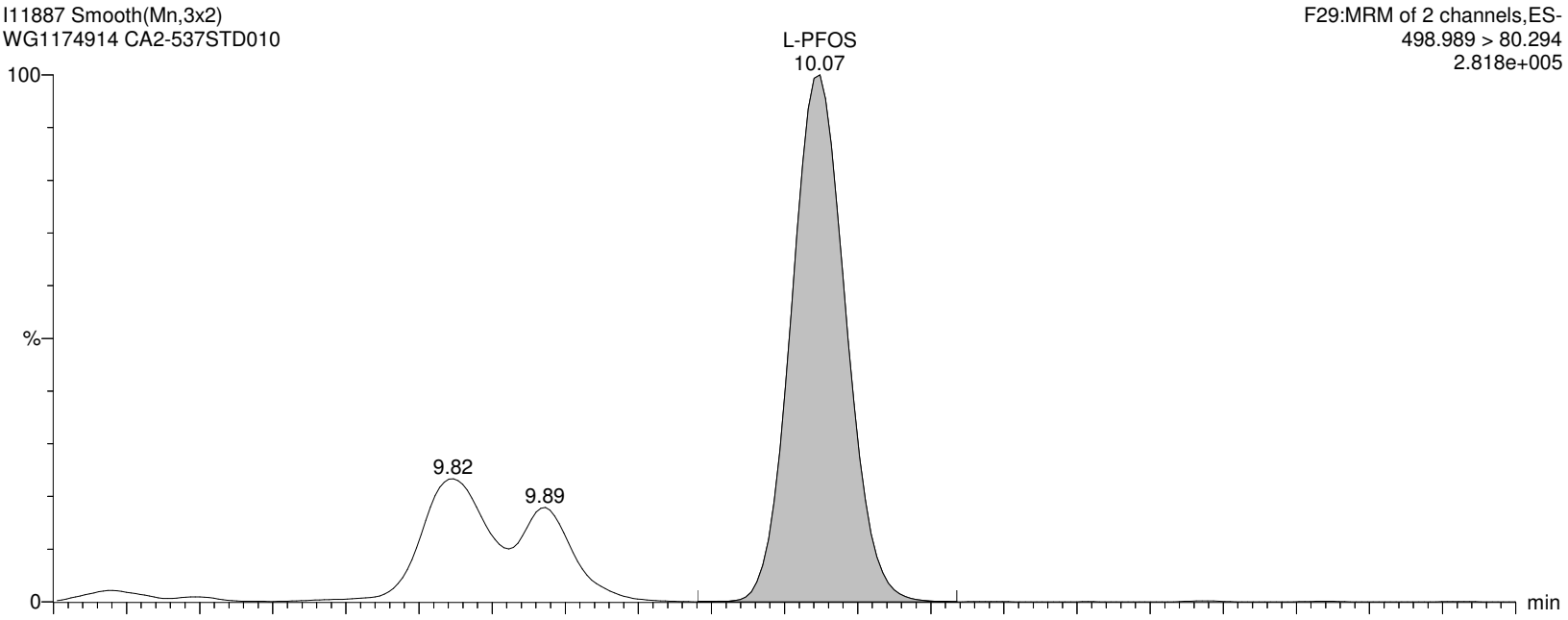
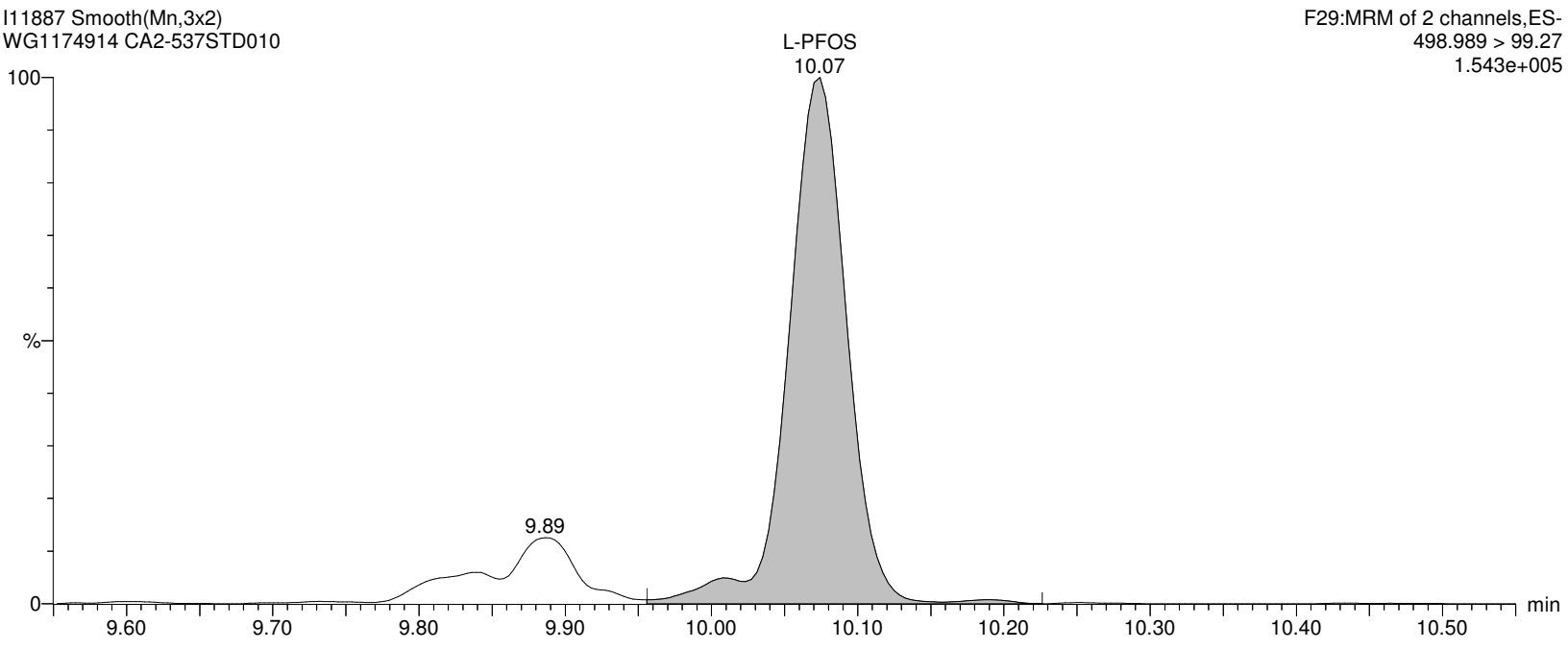
L-PFOS





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Printed: Thursday, November 01, 2018 20:37:25 Eastern Daylight Time

Name: I11887
ID: CA2-537STD010
Date: 01-Nov-2018
Time: 19:31:25
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
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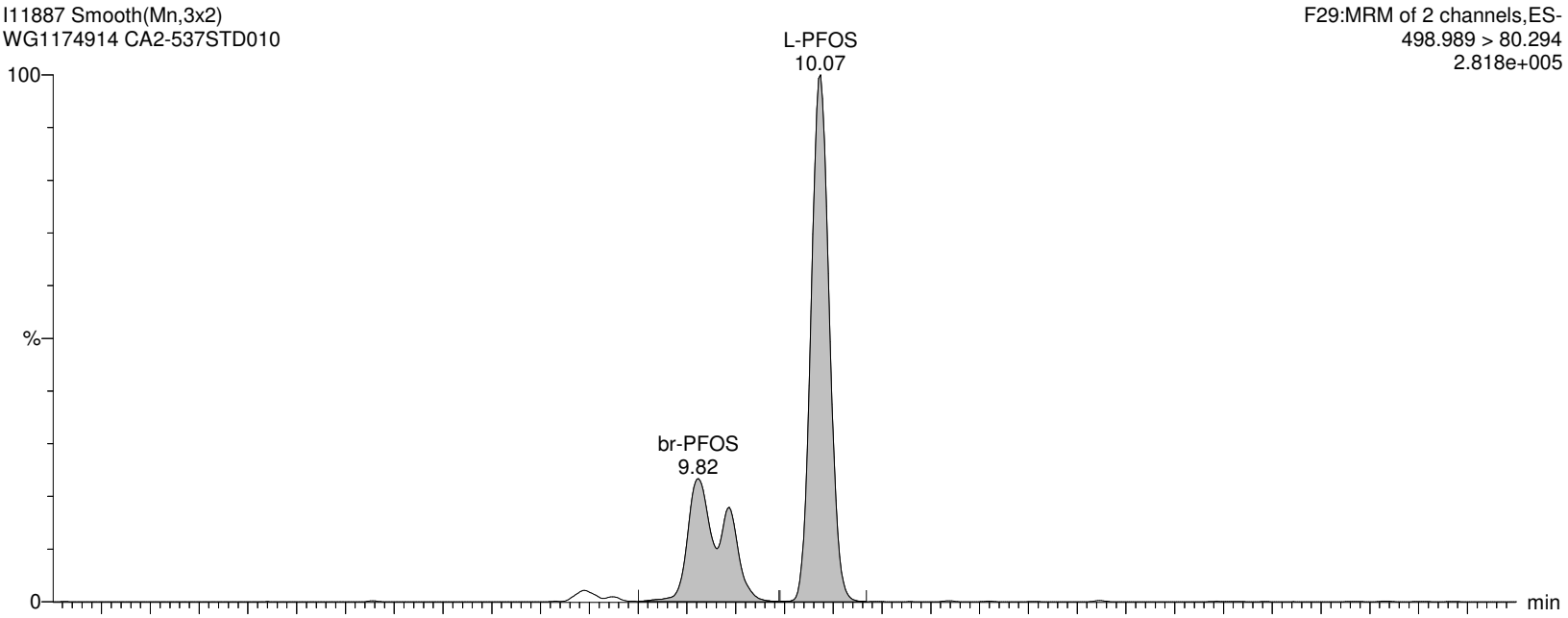

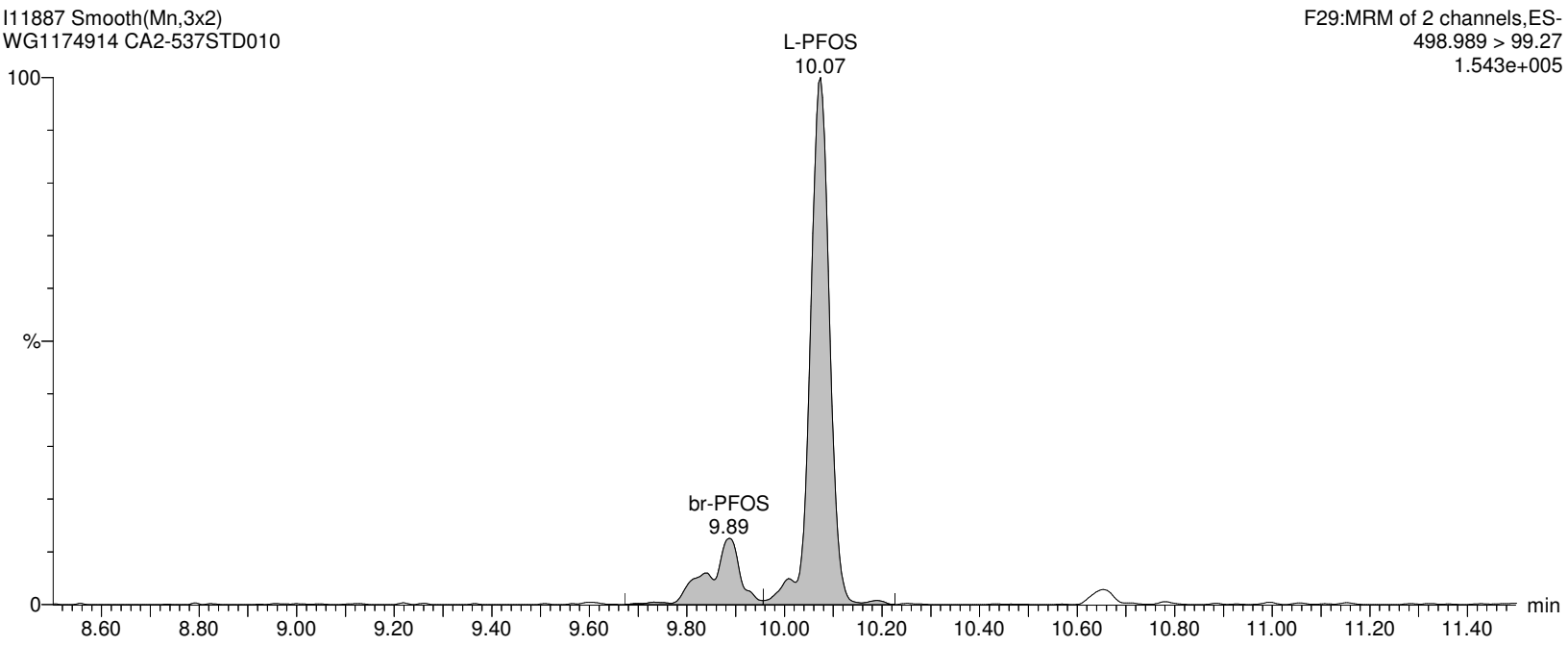

all concentration units in (ng/mL)

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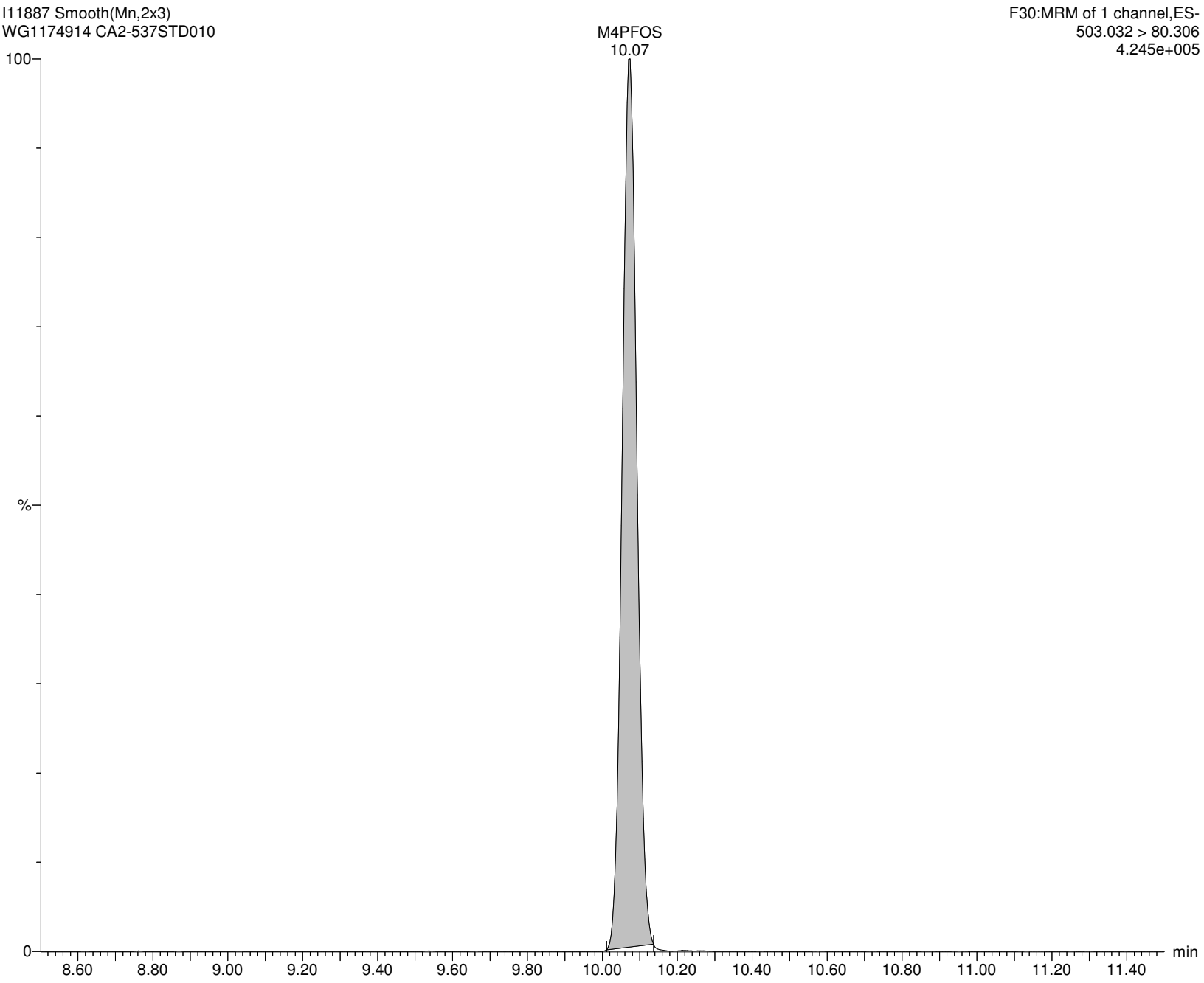

all concentration units in (ng/mL)

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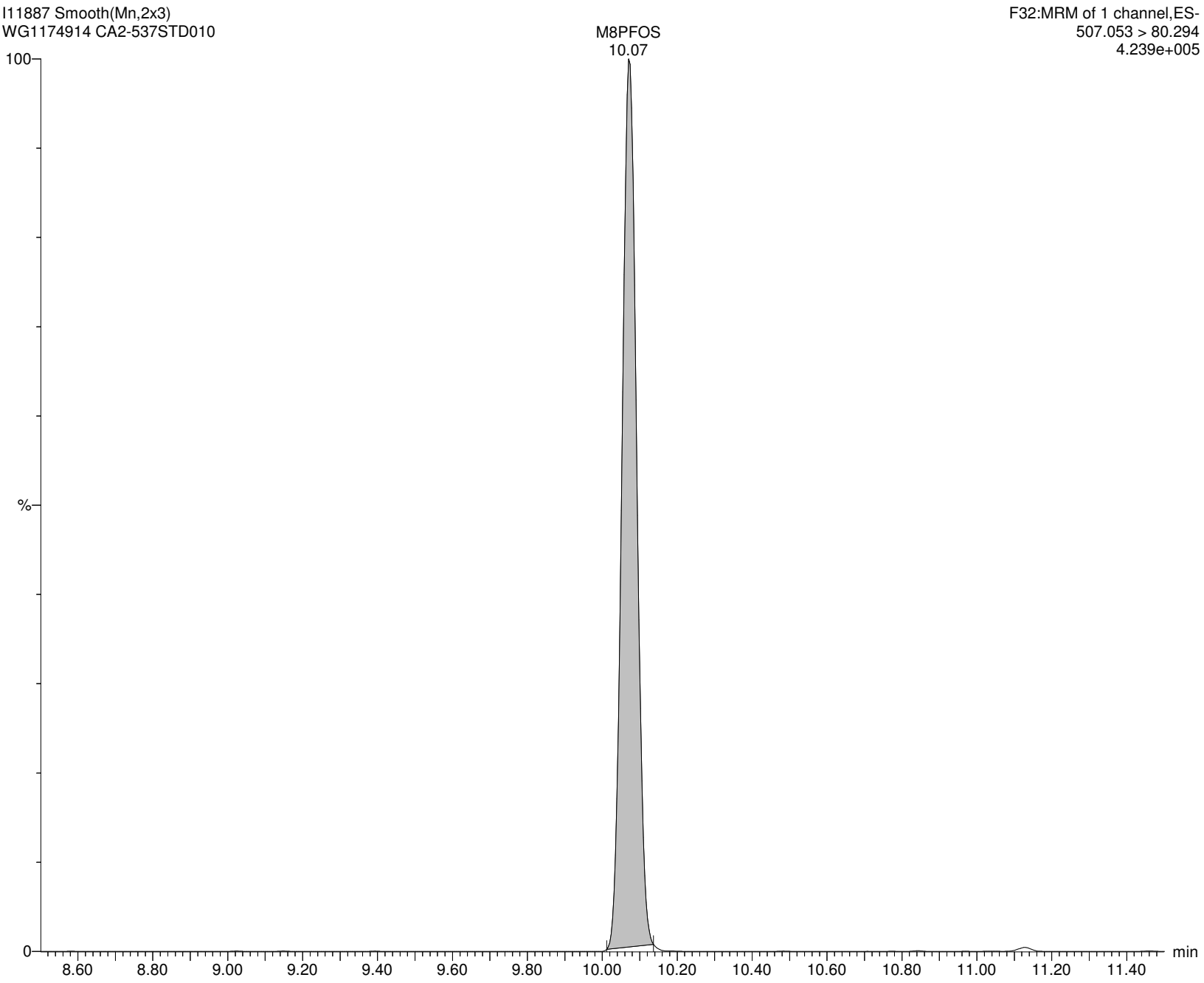

all concentration units in (ng/mL)

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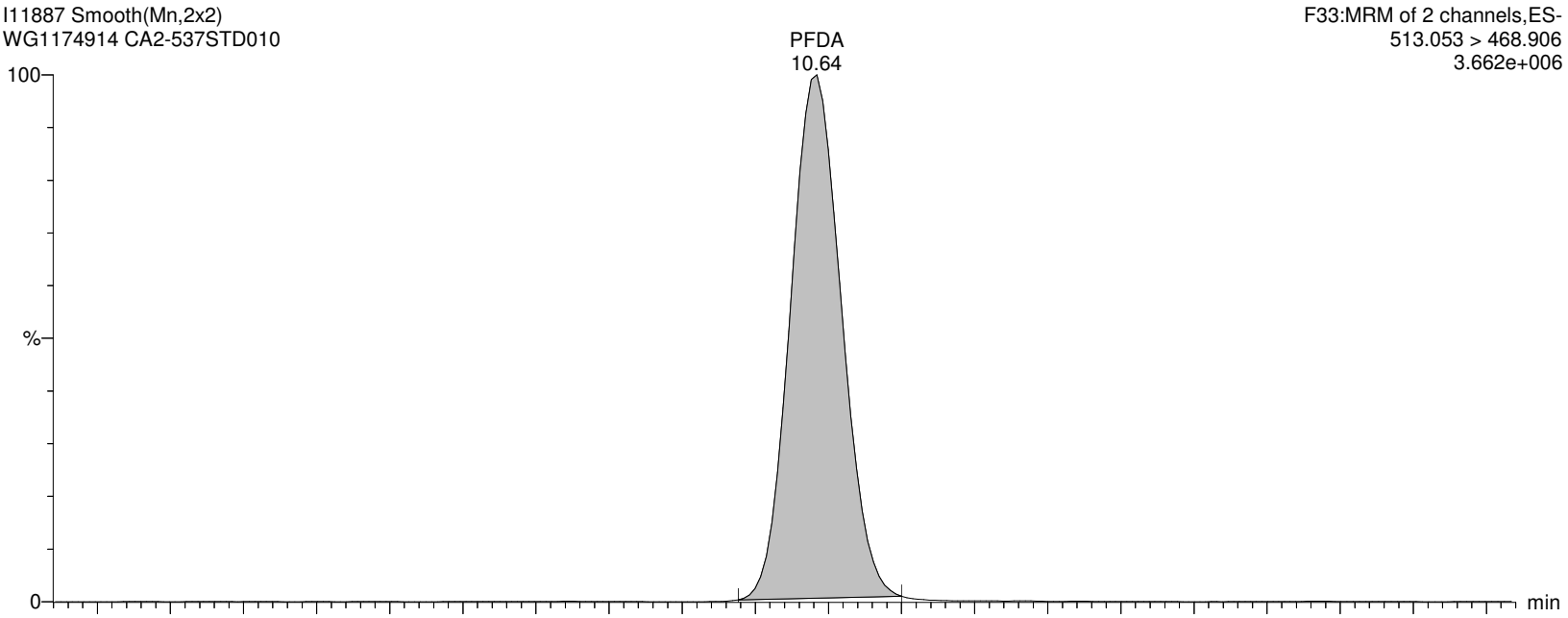

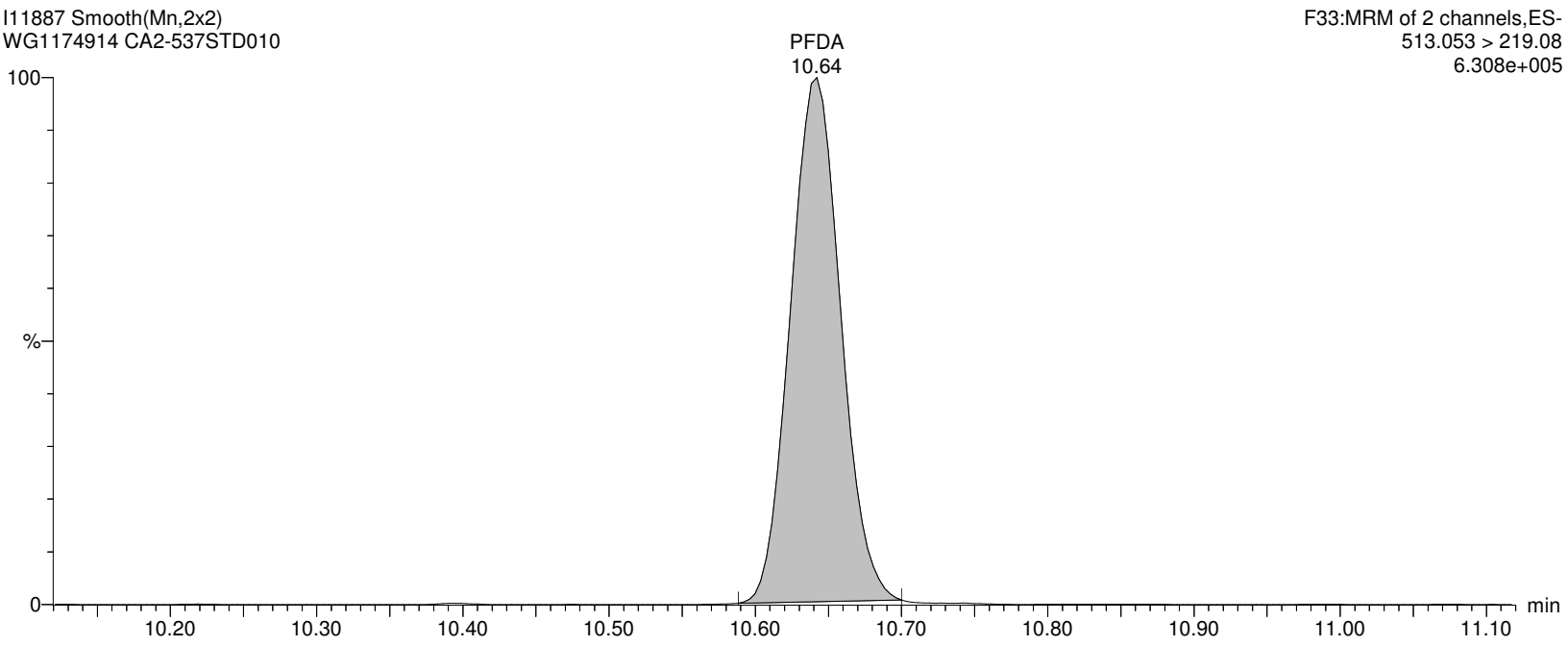

all concentration units in (ng/mL)

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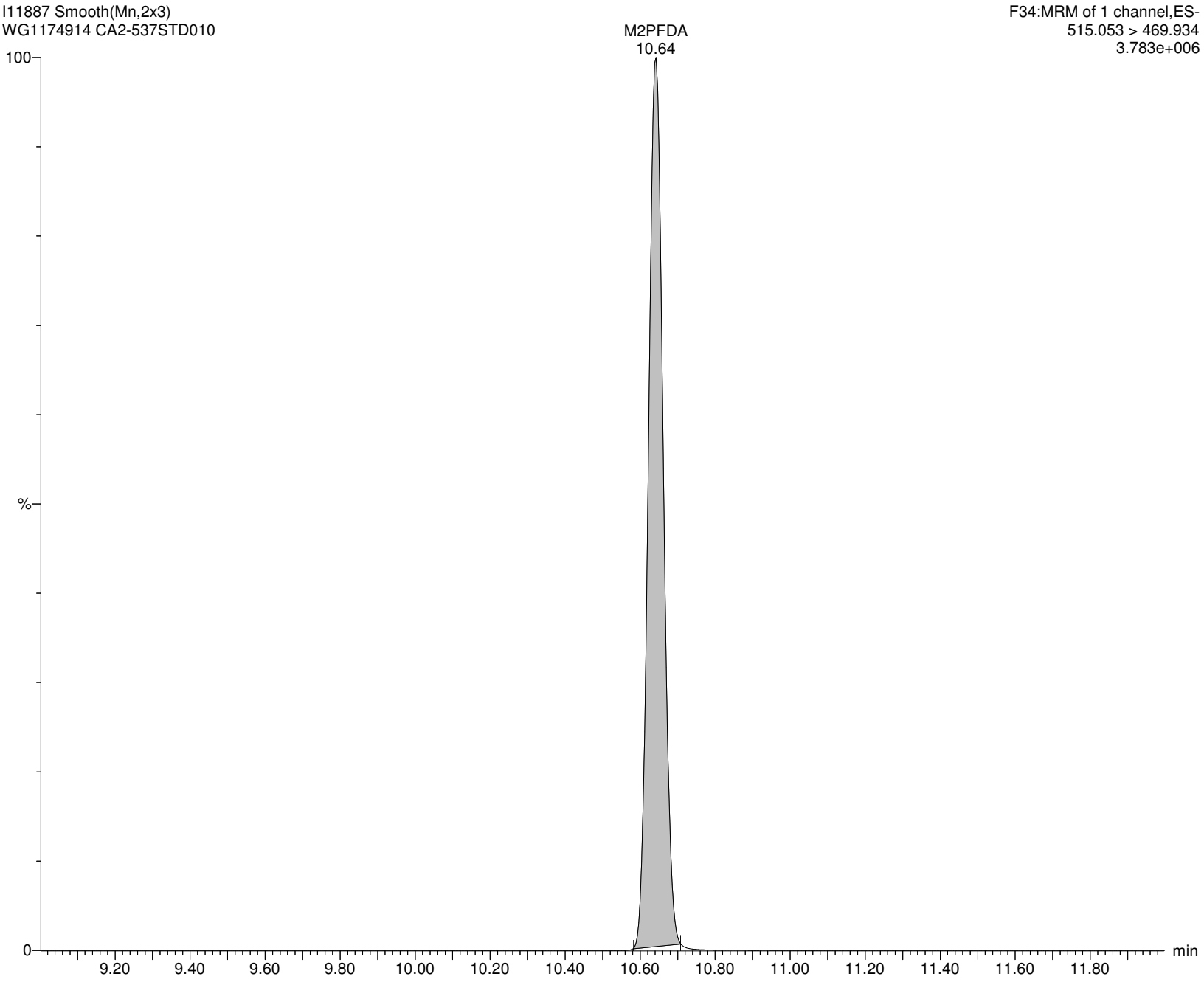

all concentration units in (ng/mL)

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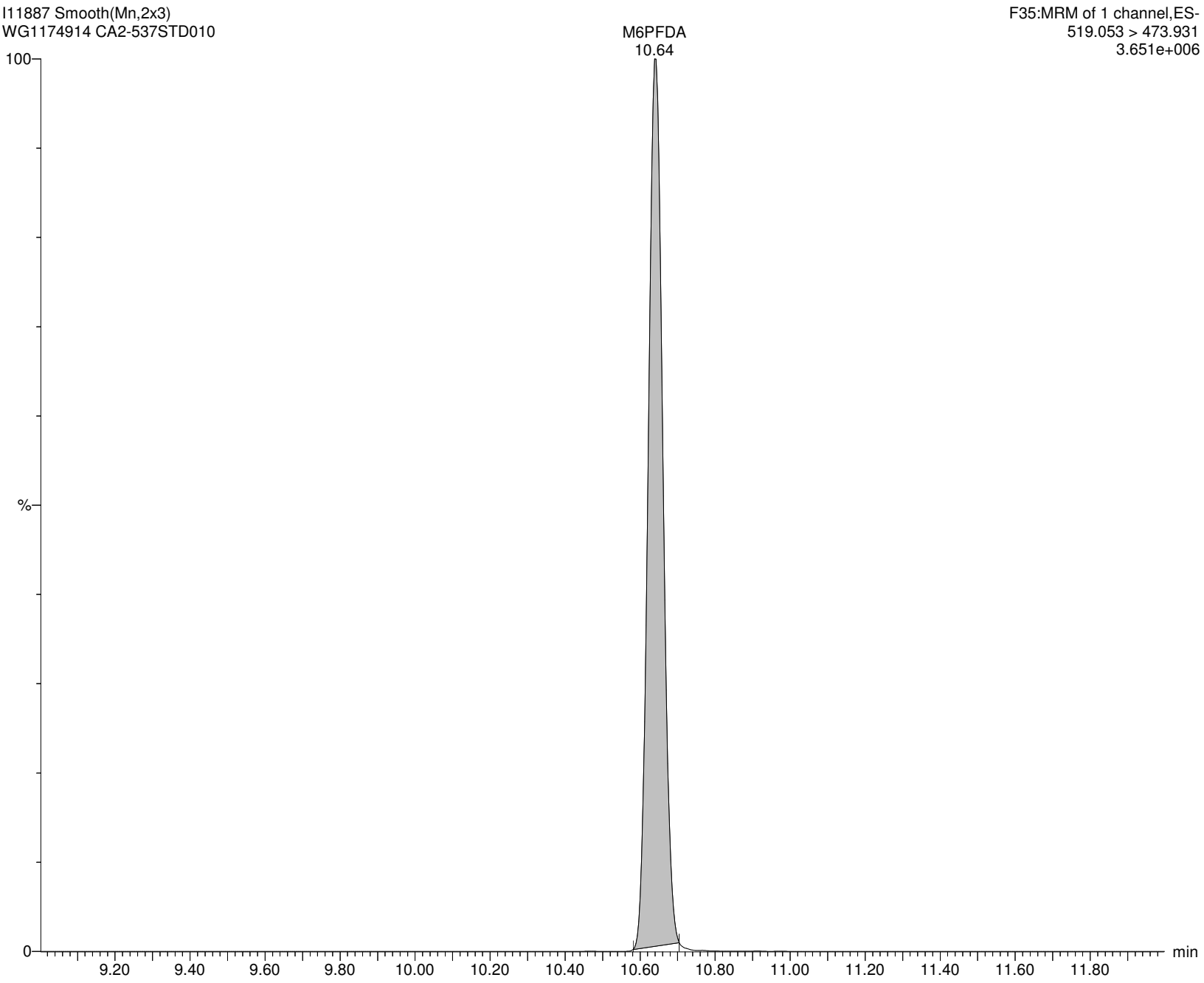

all concentration units in (ng/mL)

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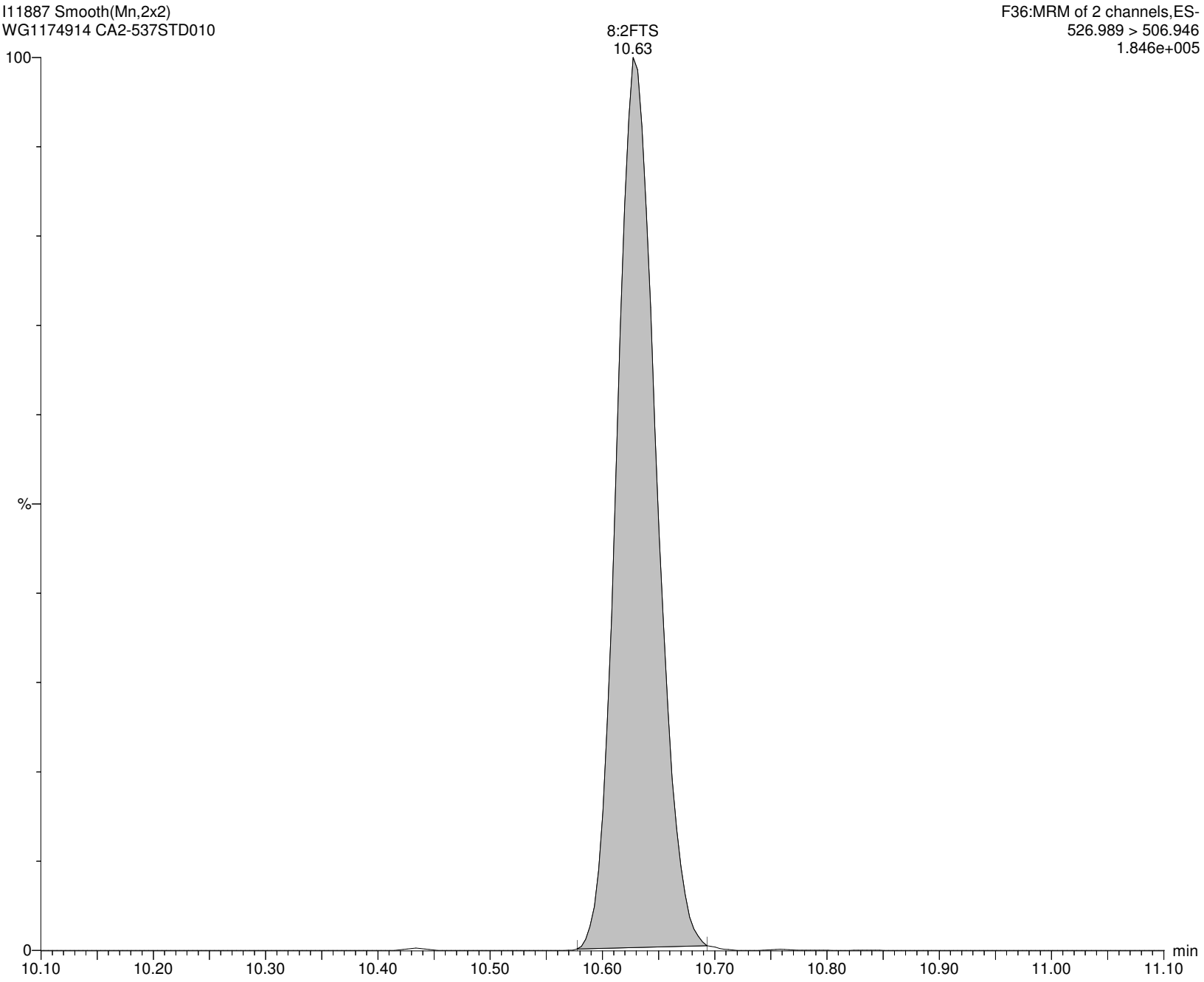

all concentration units in (ng/mL)

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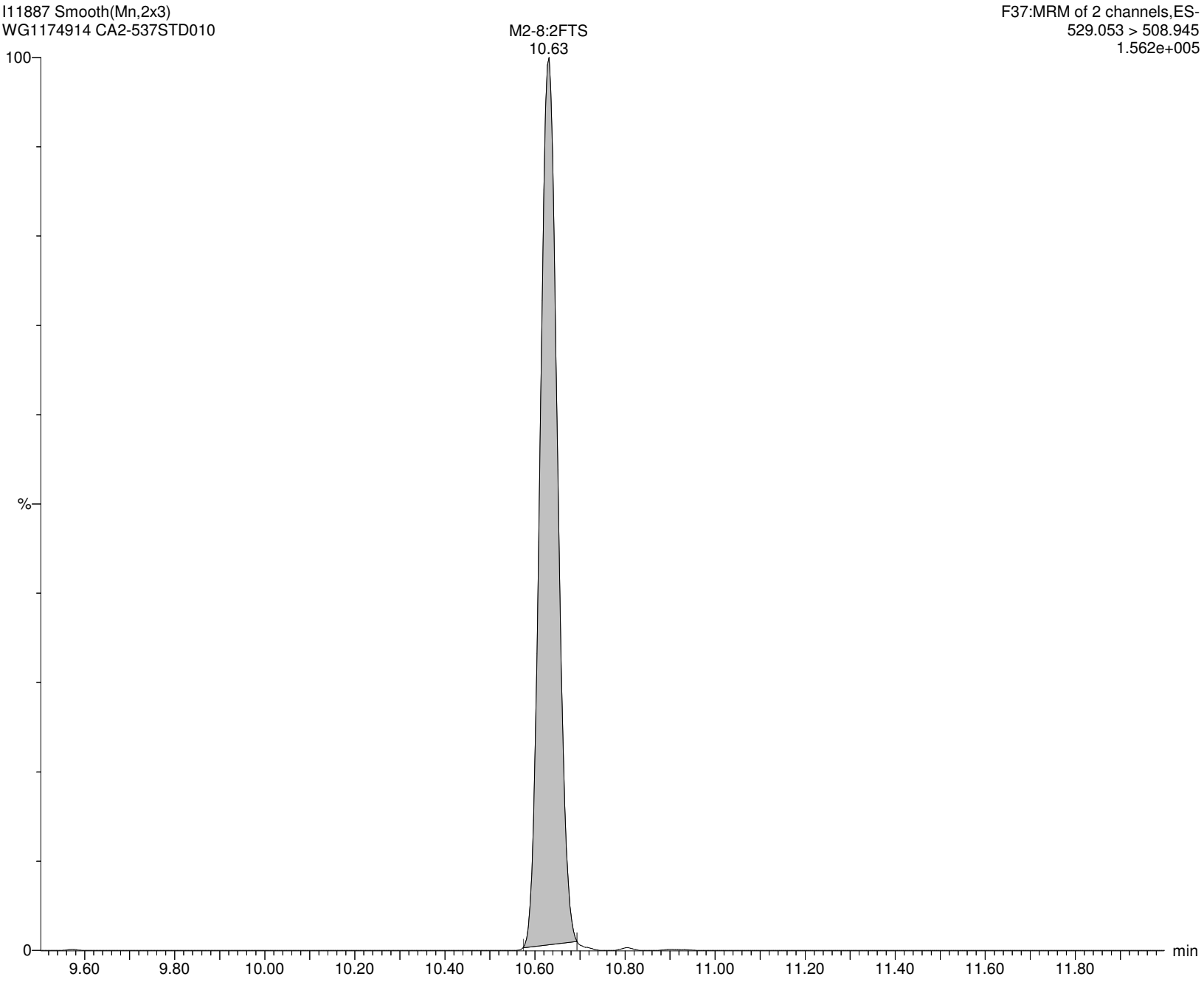
M2-8:2FTS



all concentration units in (ng/mL)

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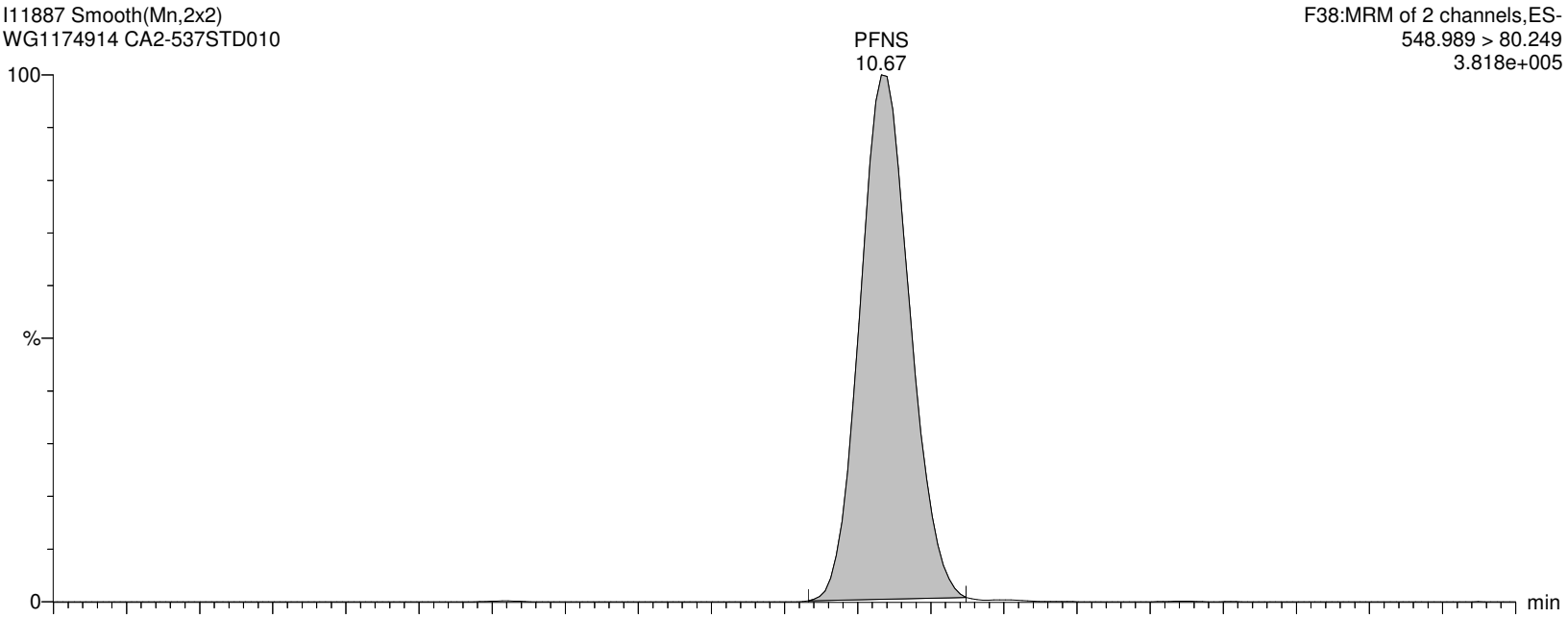

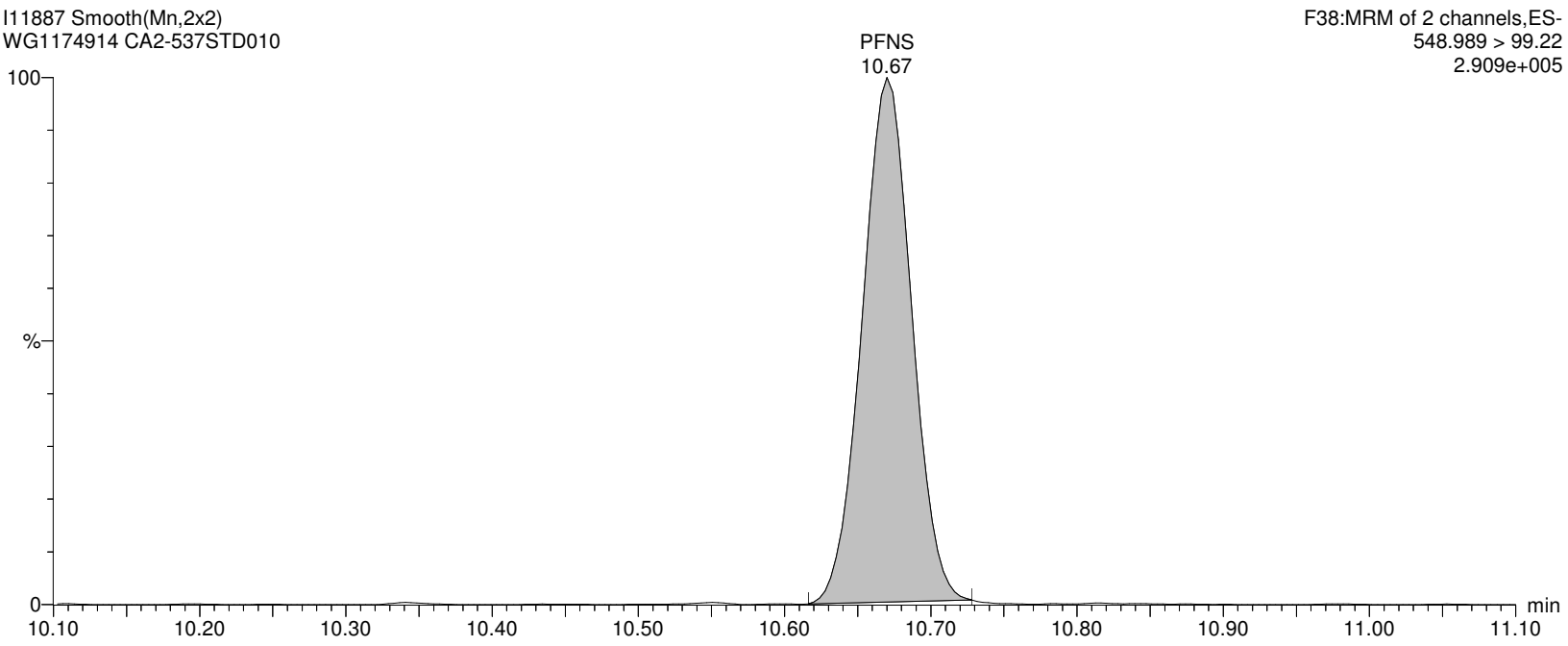

all concentration units in (ng/mL)

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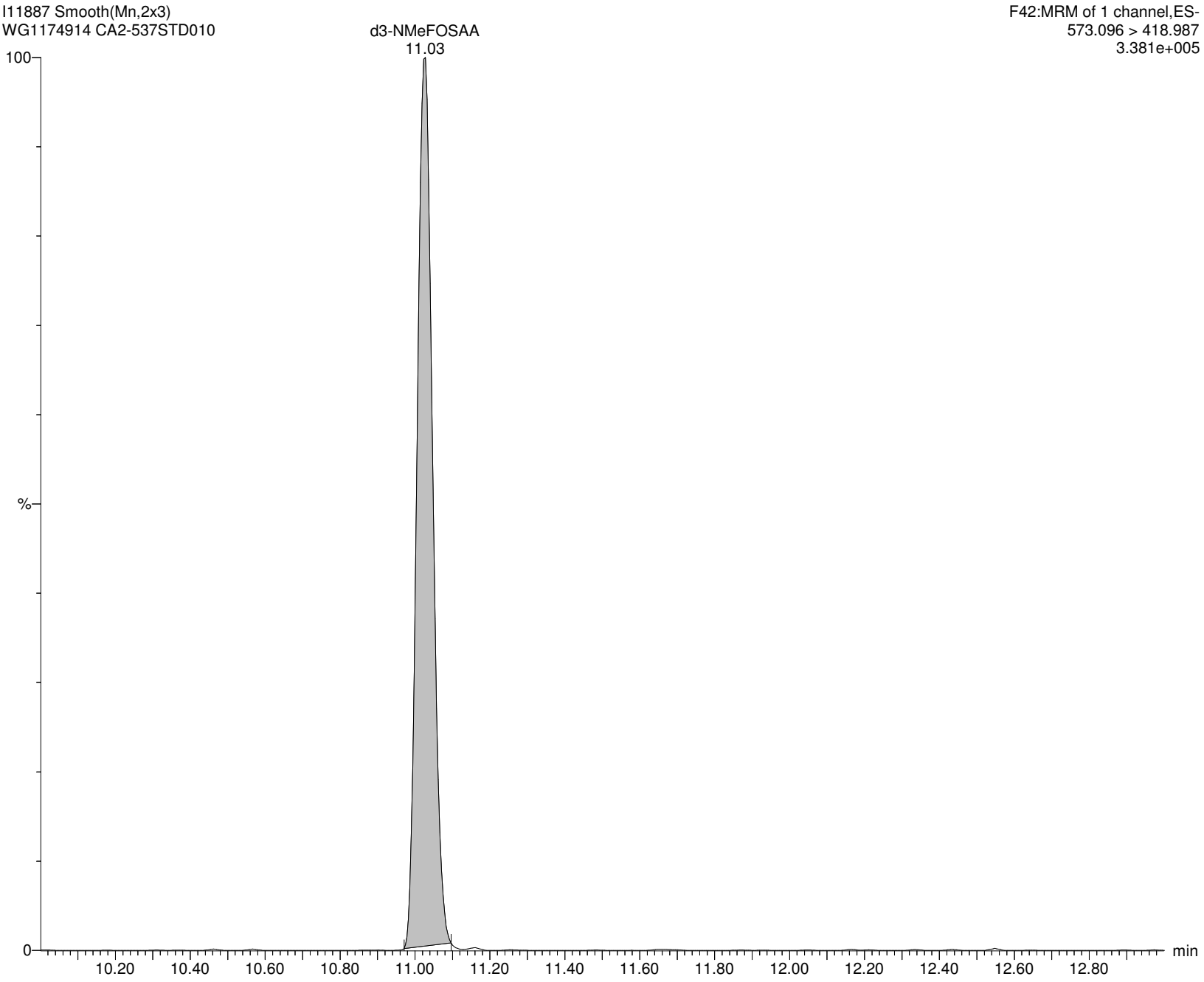

all concentration units in (ng/mL)

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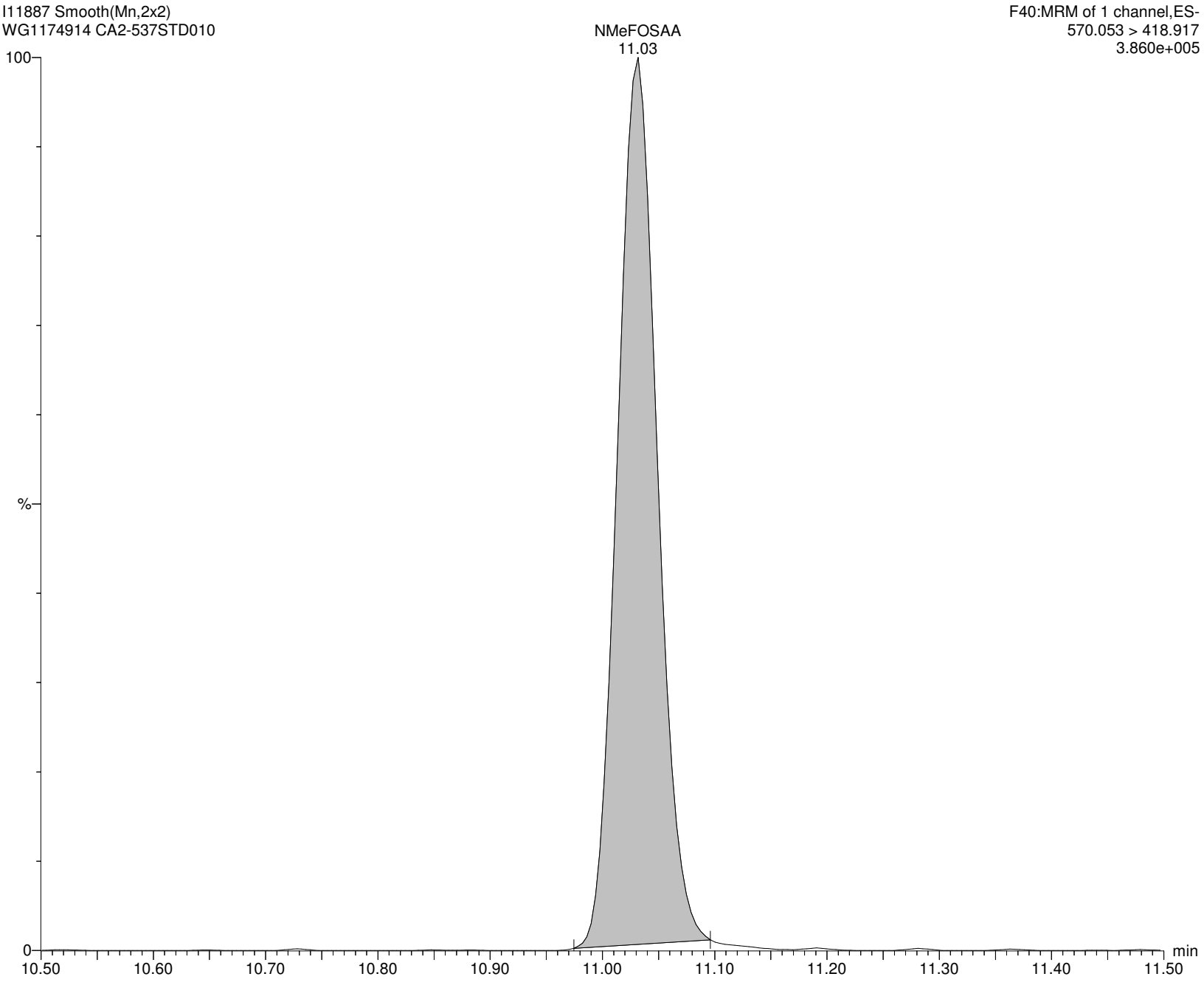

all concentration units in (ng/mL)

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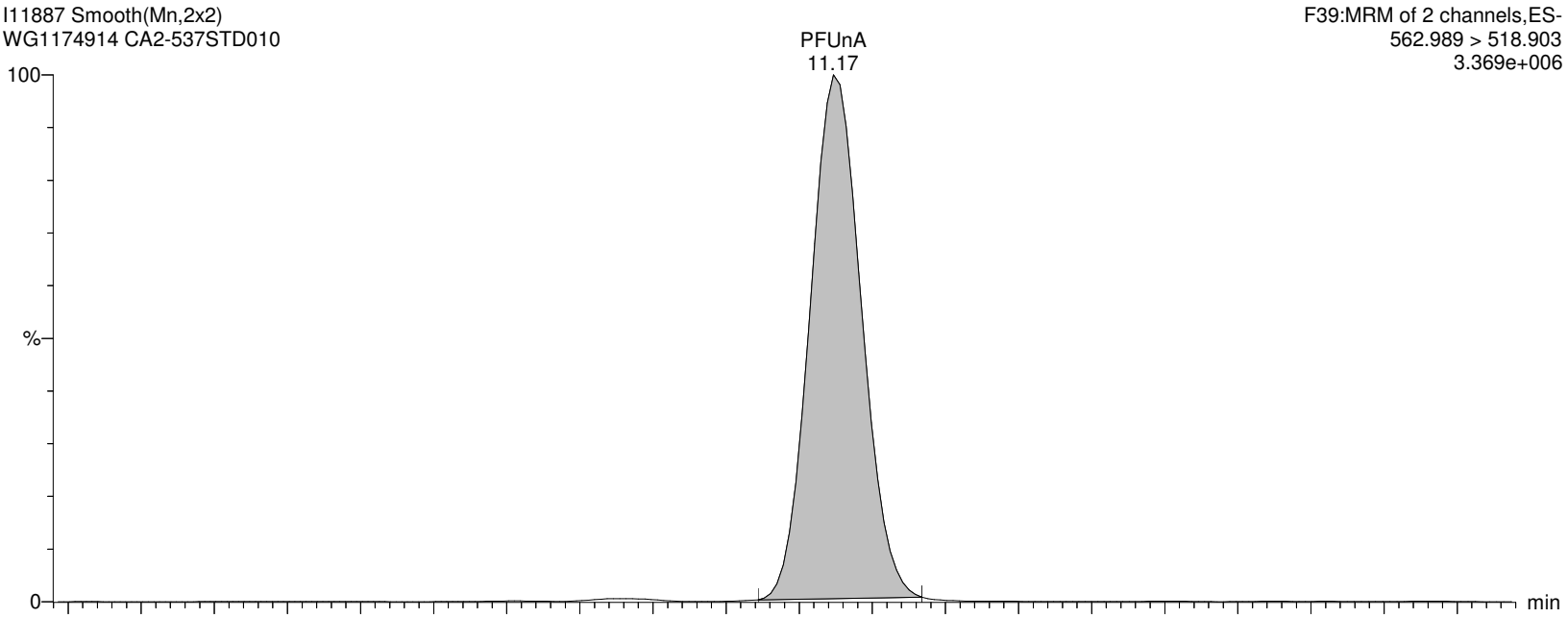

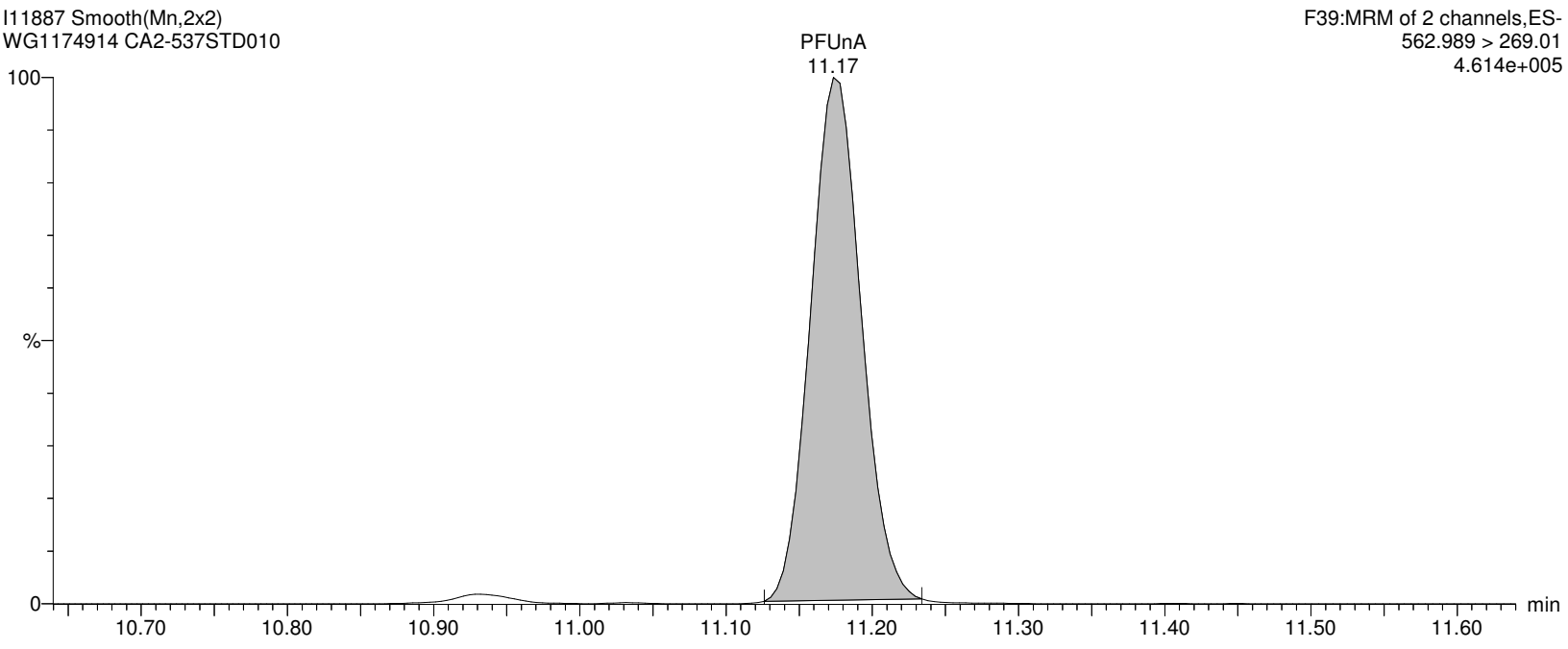

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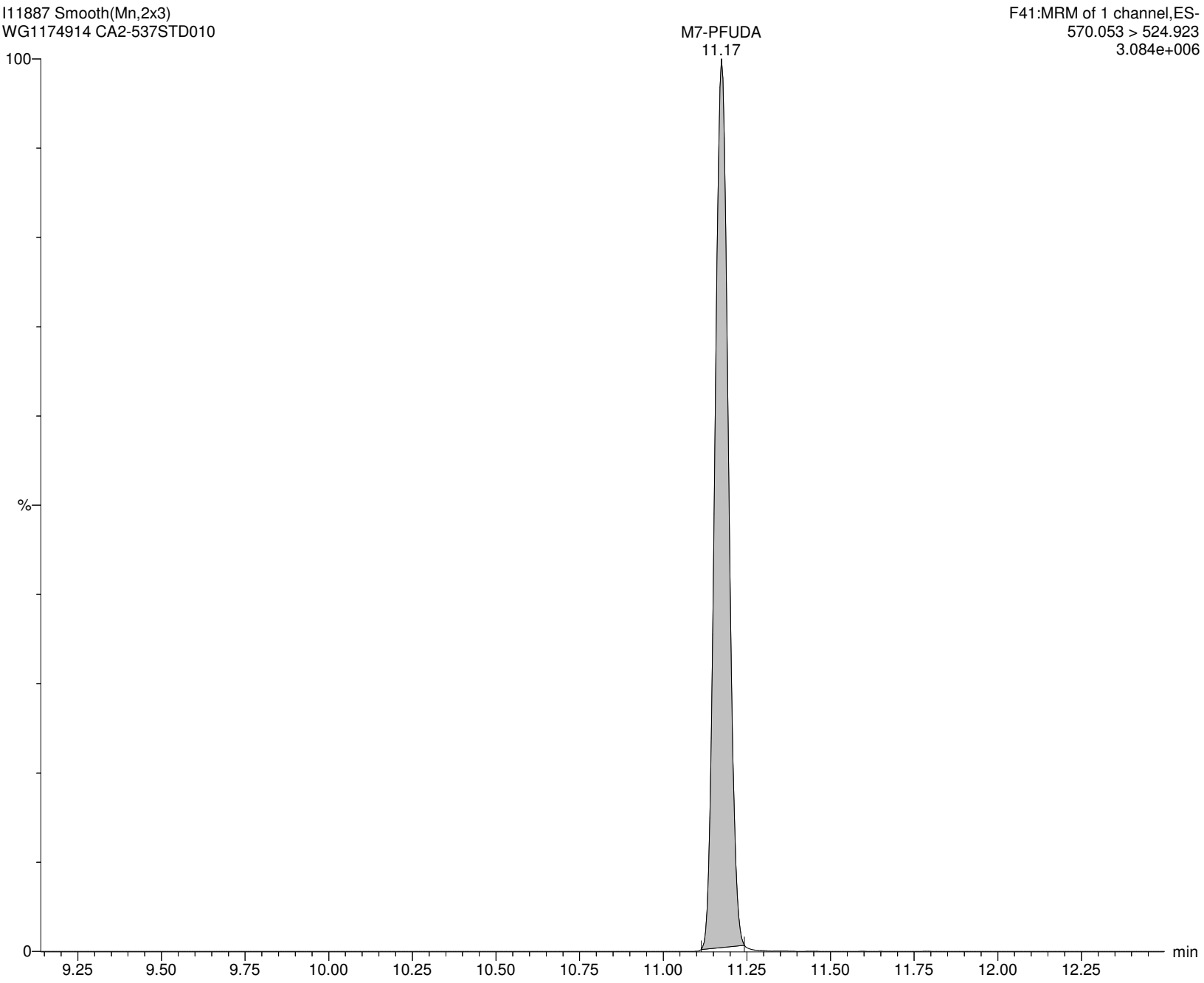

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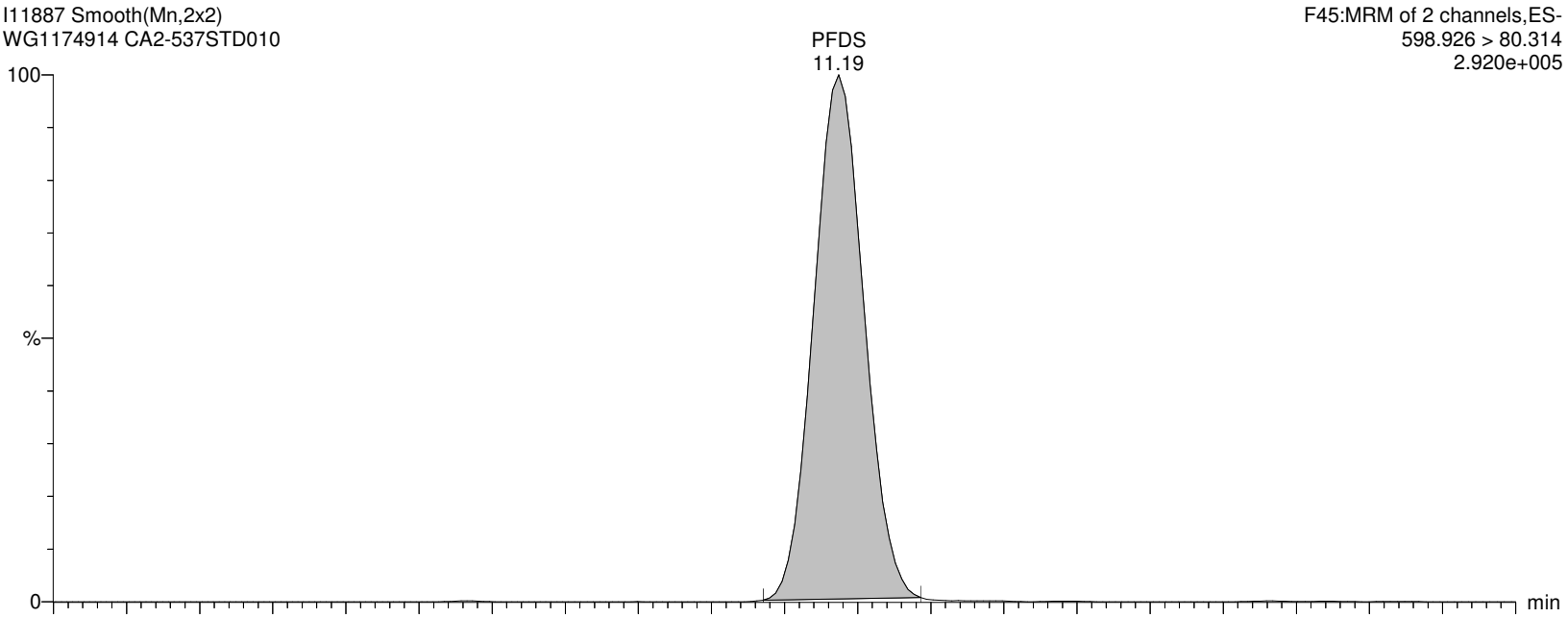

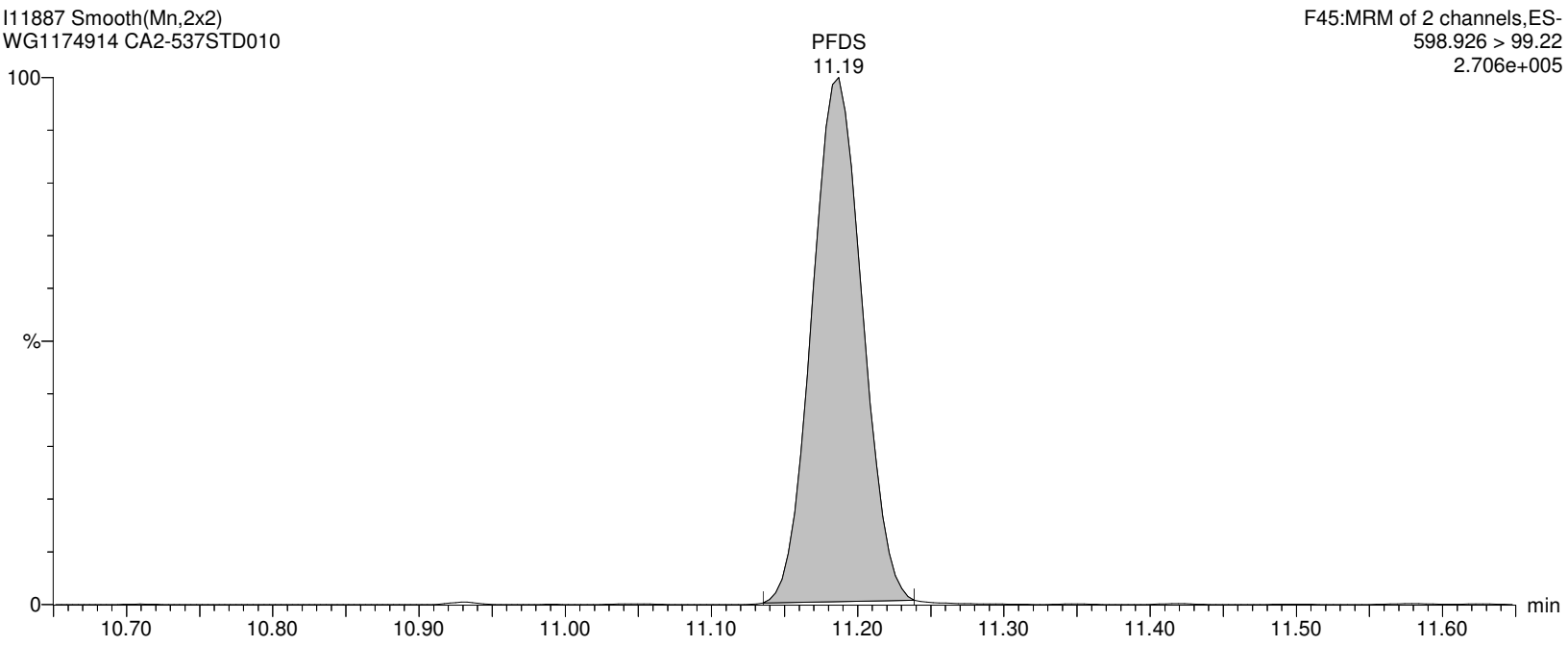

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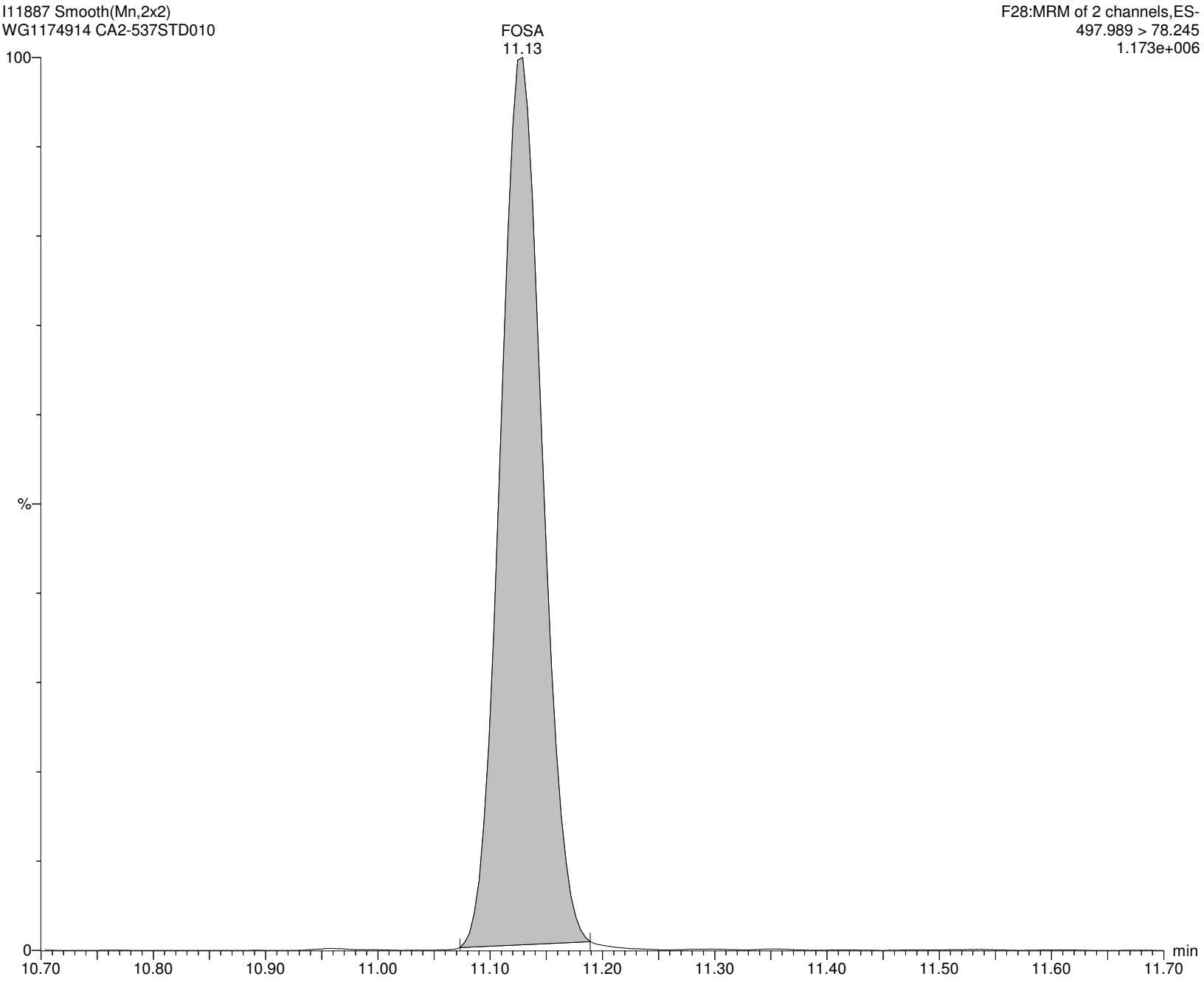

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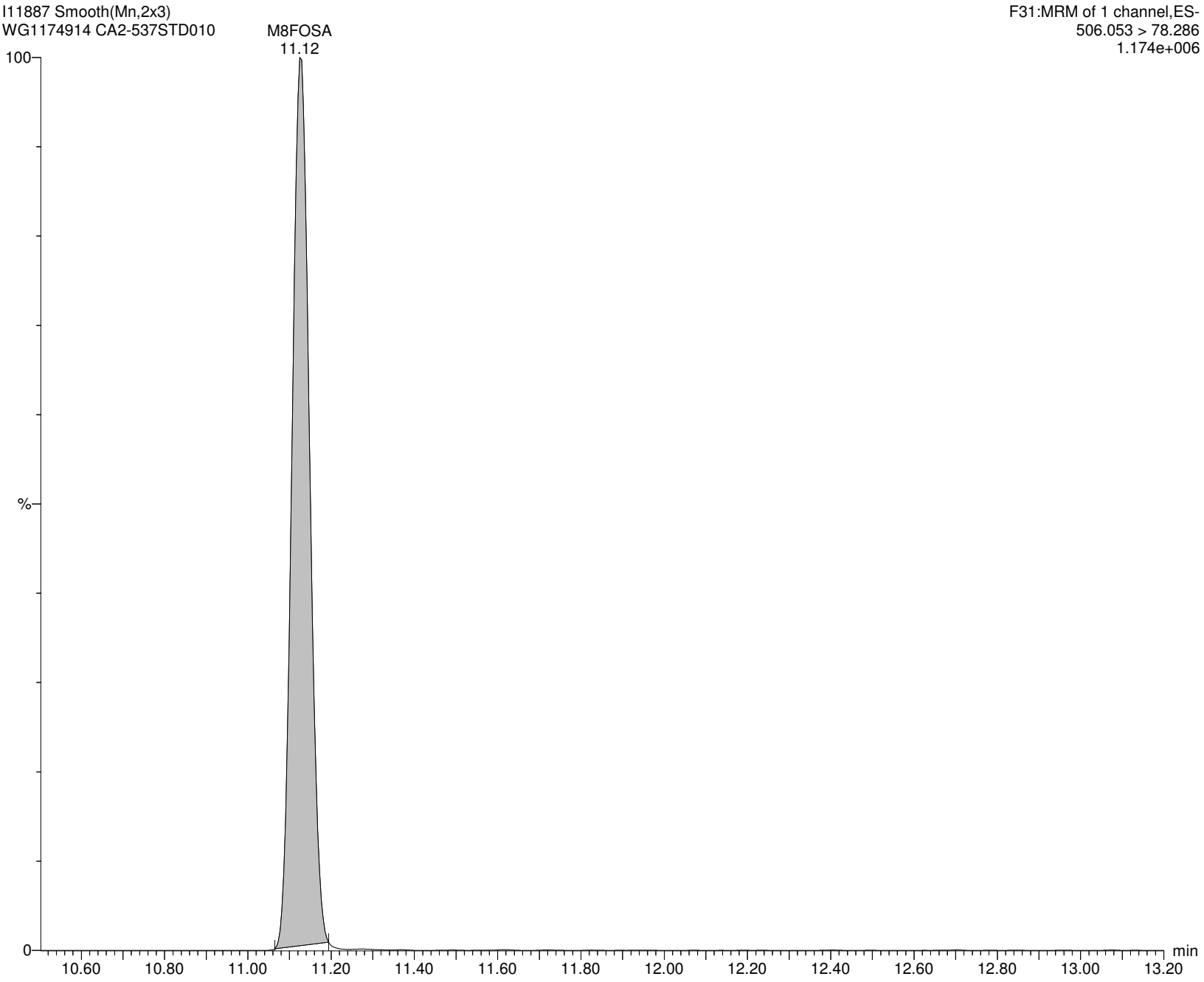
M8FOSA



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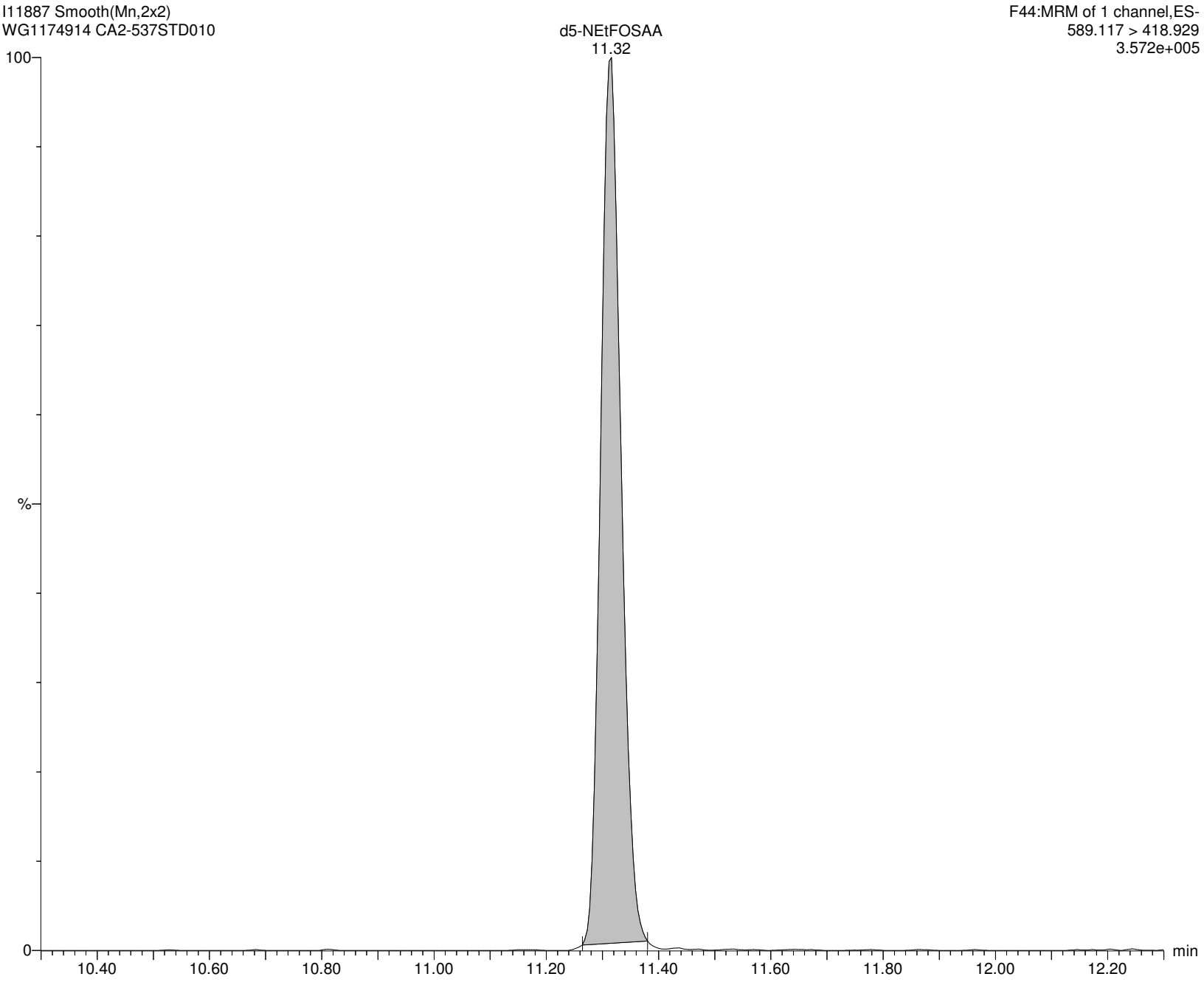
d5-NEtFOSAA



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Date: 01-Nov-2018
Time: 19:31:25
Description: WG1174914
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
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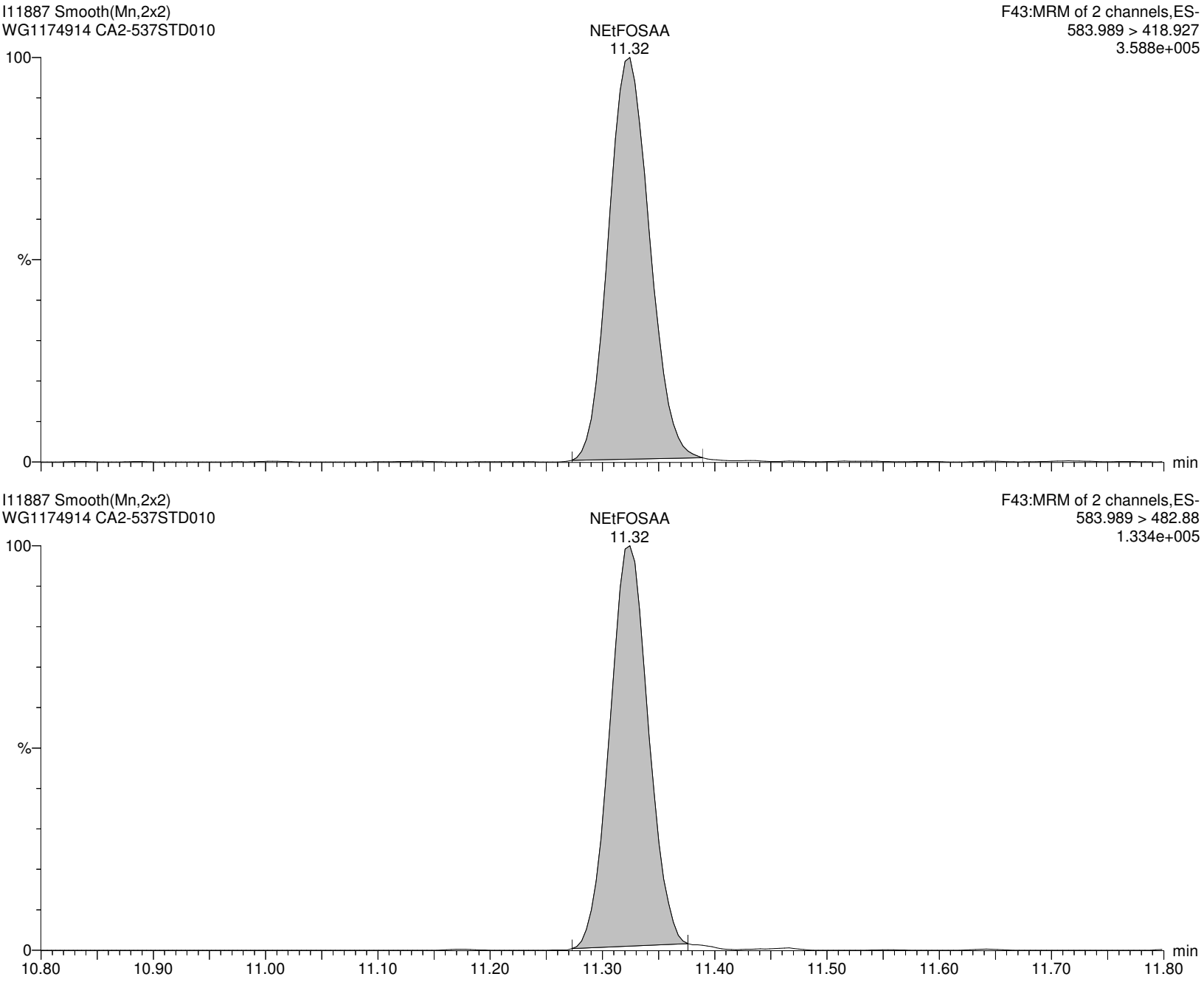

all concentration units in (ng/mL)

Alpha Analytical Inc.
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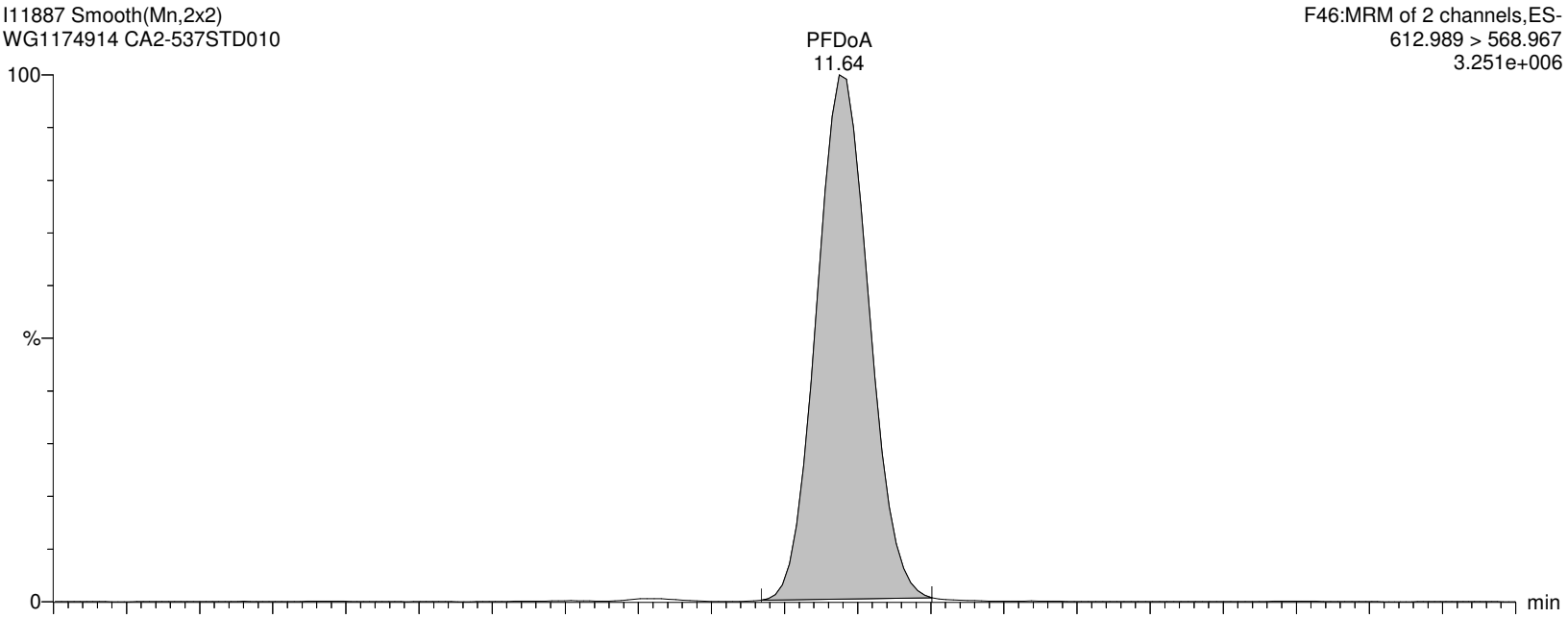

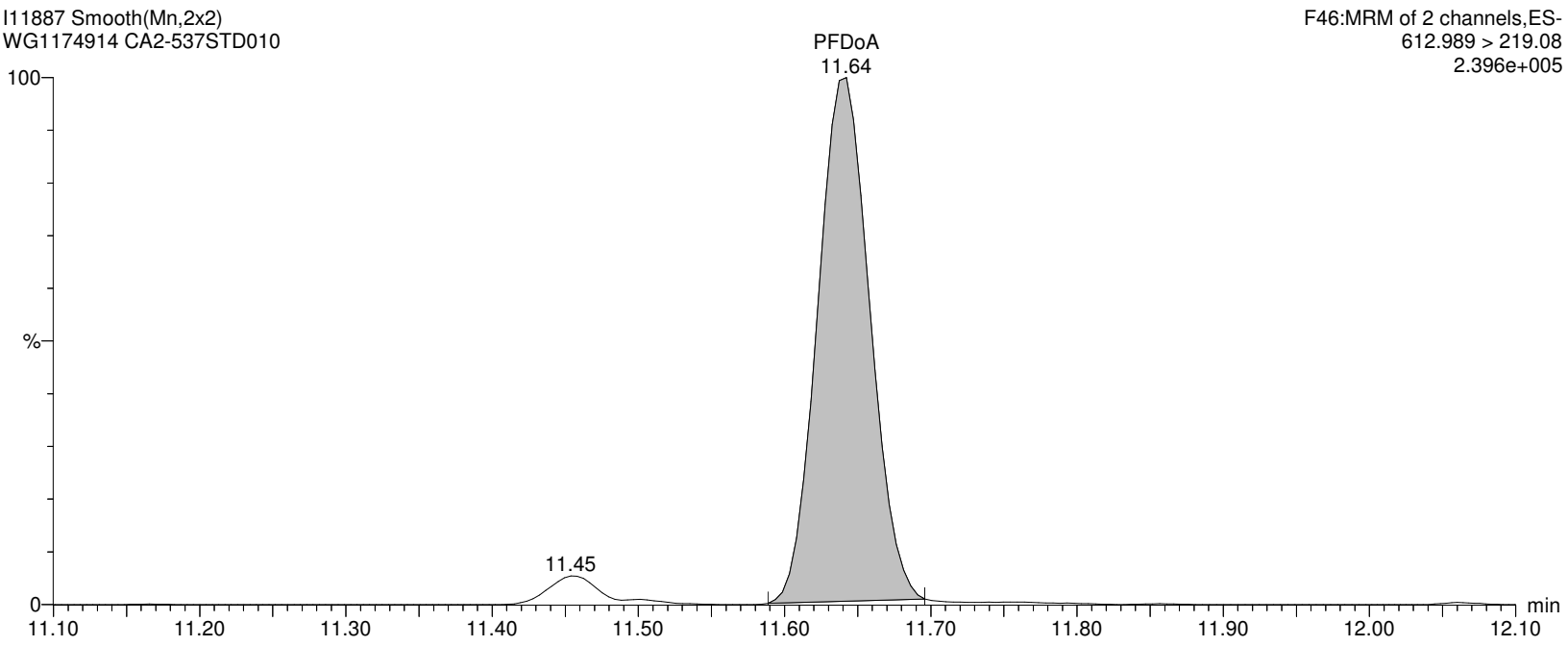

all concentration units in (ng/mL)

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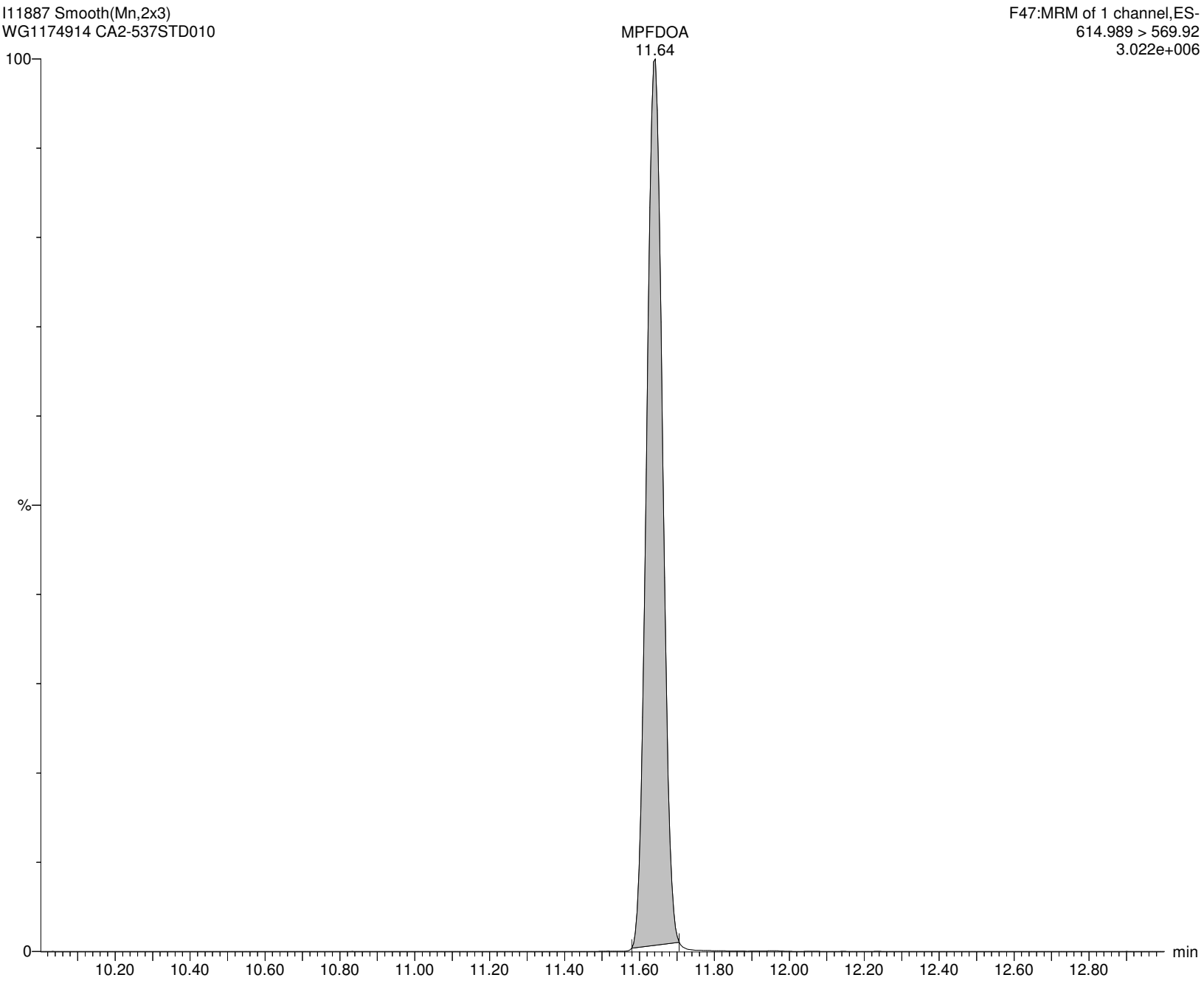

all concentration units in (ng/mL)

Alpha Analytical Inc.
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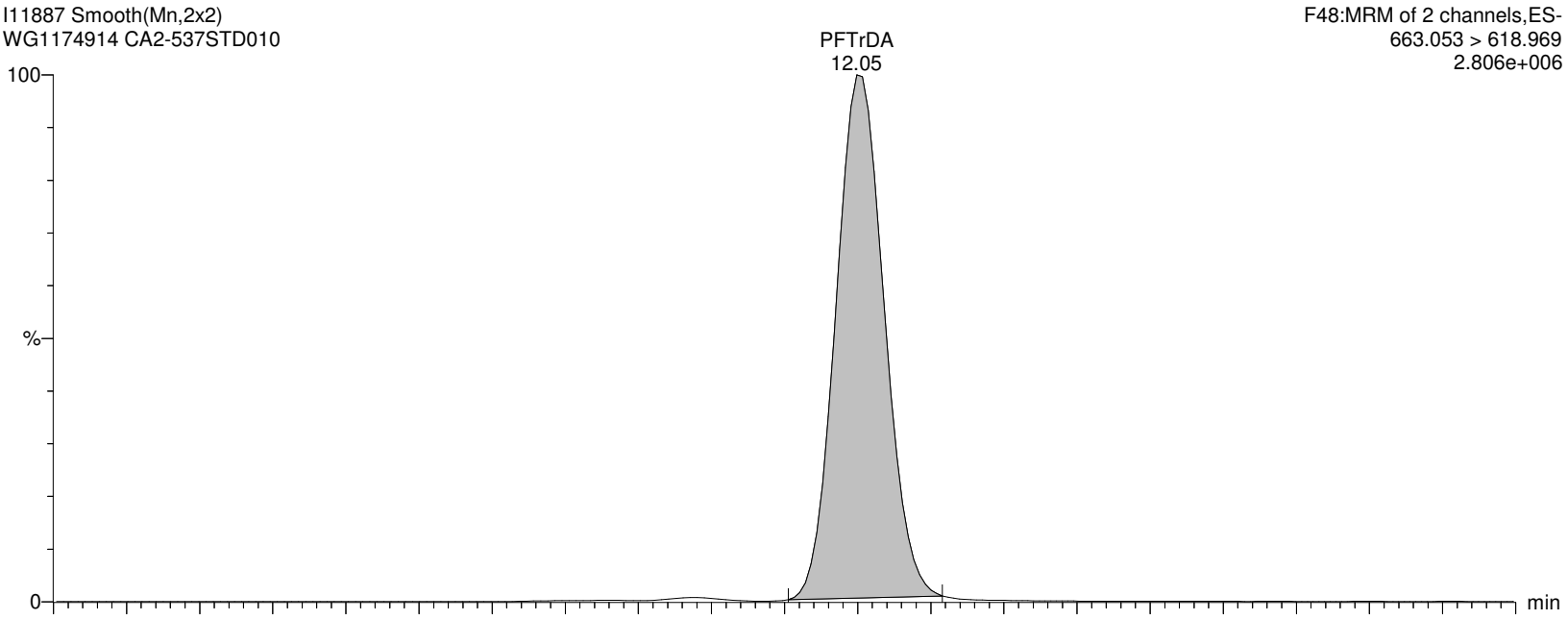

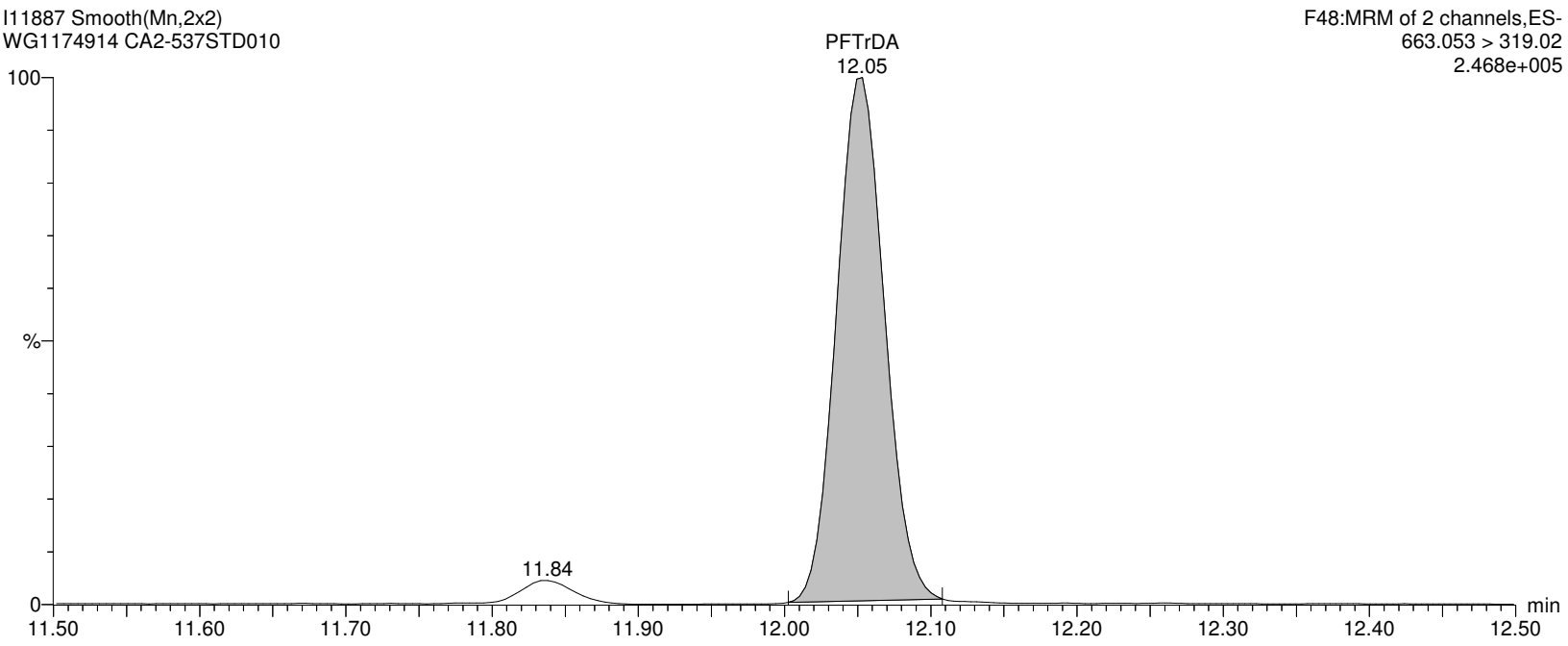

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I11887
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Instrument: XEVO-TQSmicro#QEA0276
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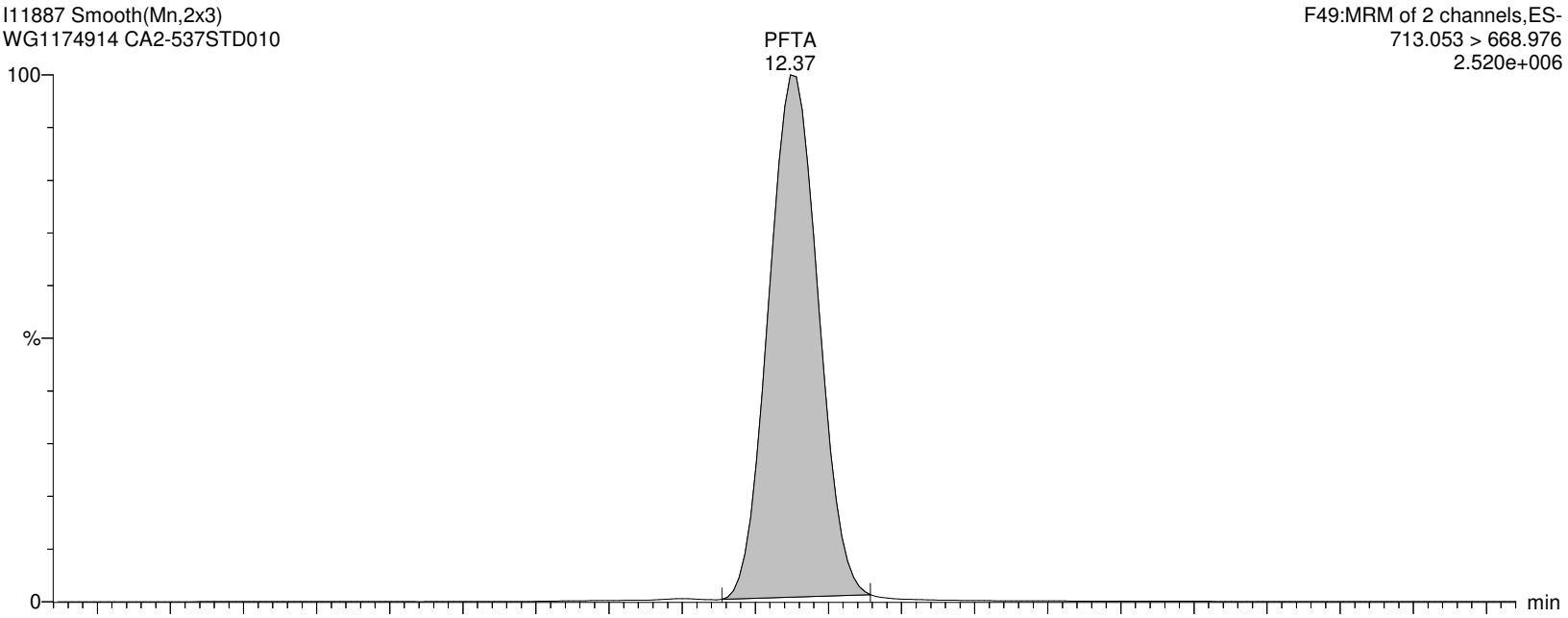

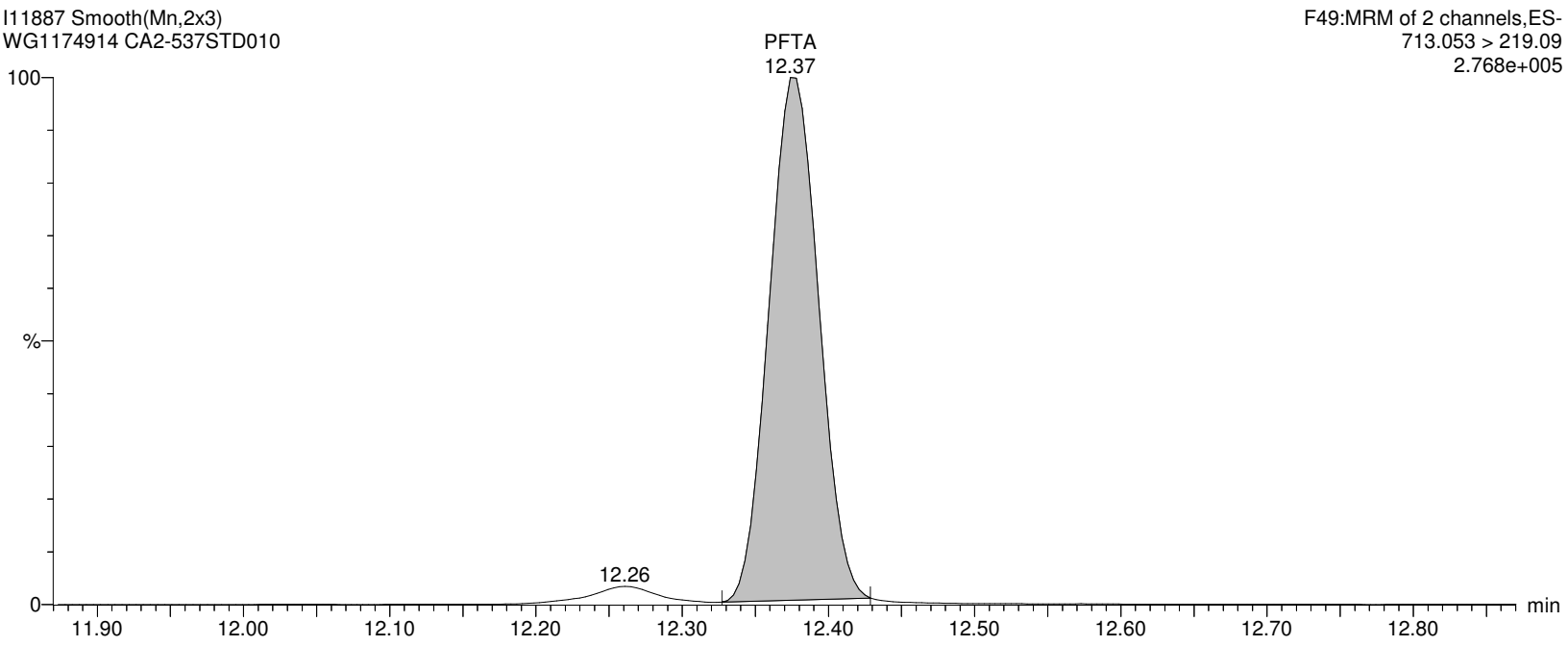

all concentration units in (ng/mL)

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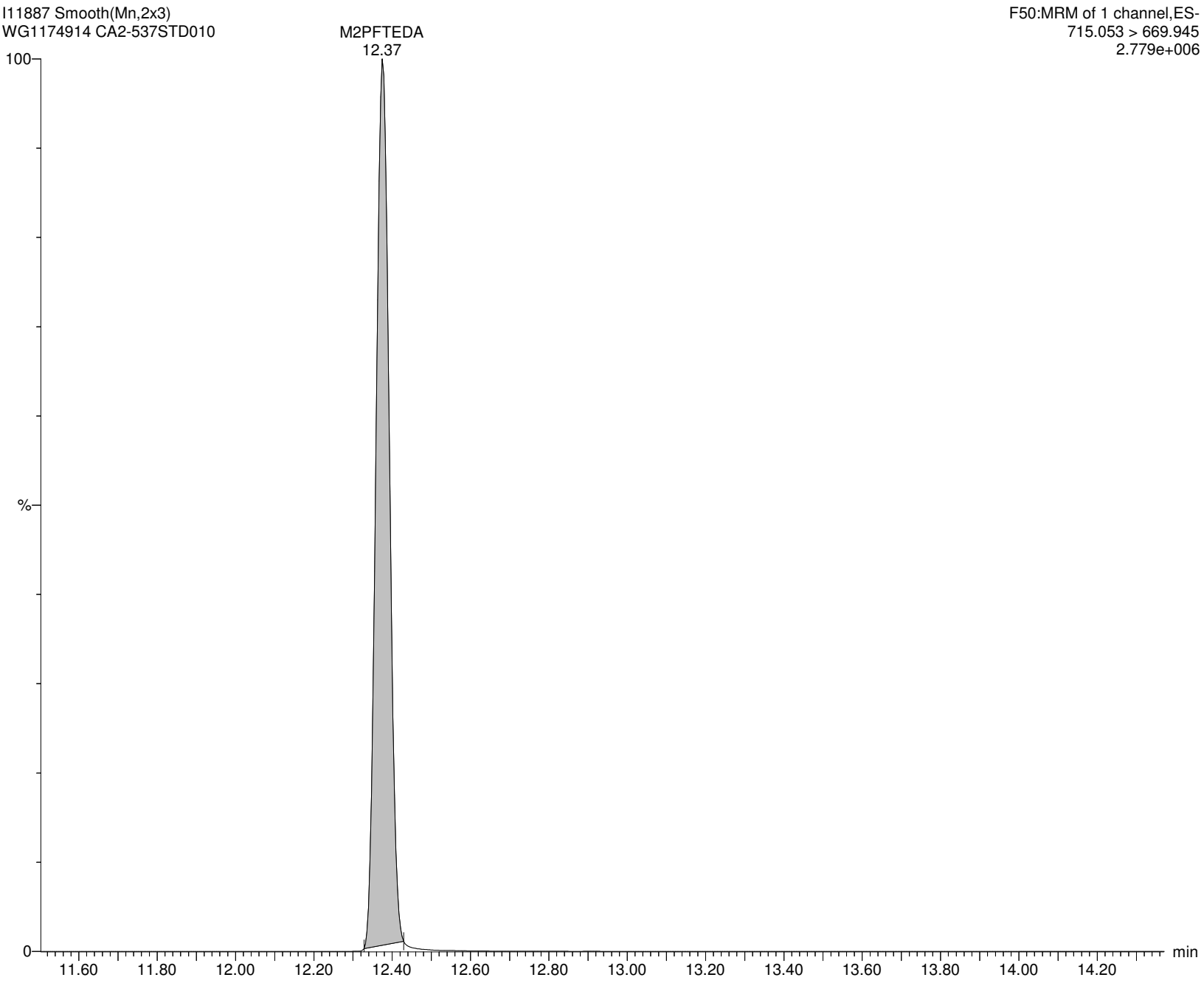

all concentration units in (ng/mL)

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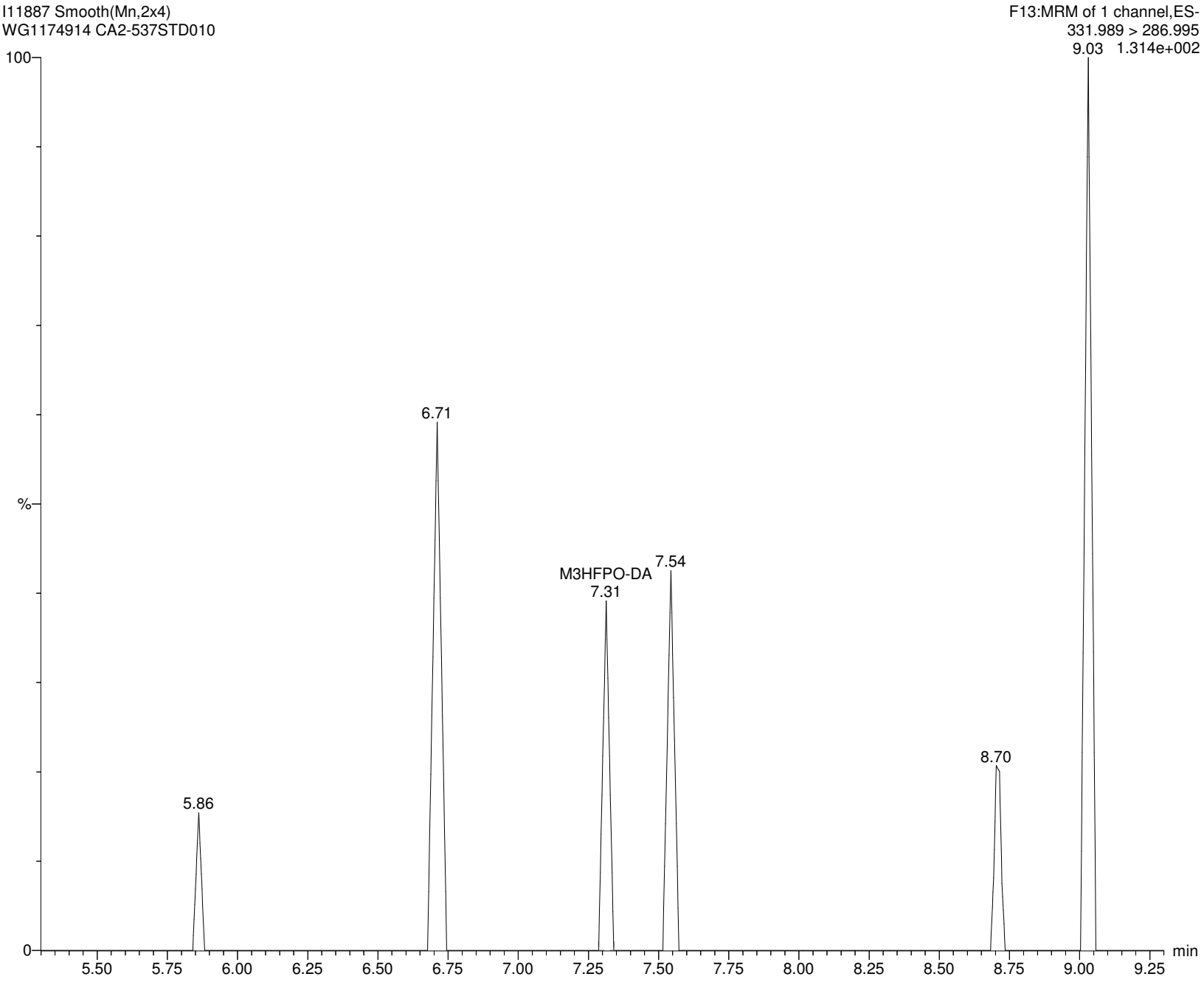

all concentration units in (ng/mL)

Alpha Analytical Inc.
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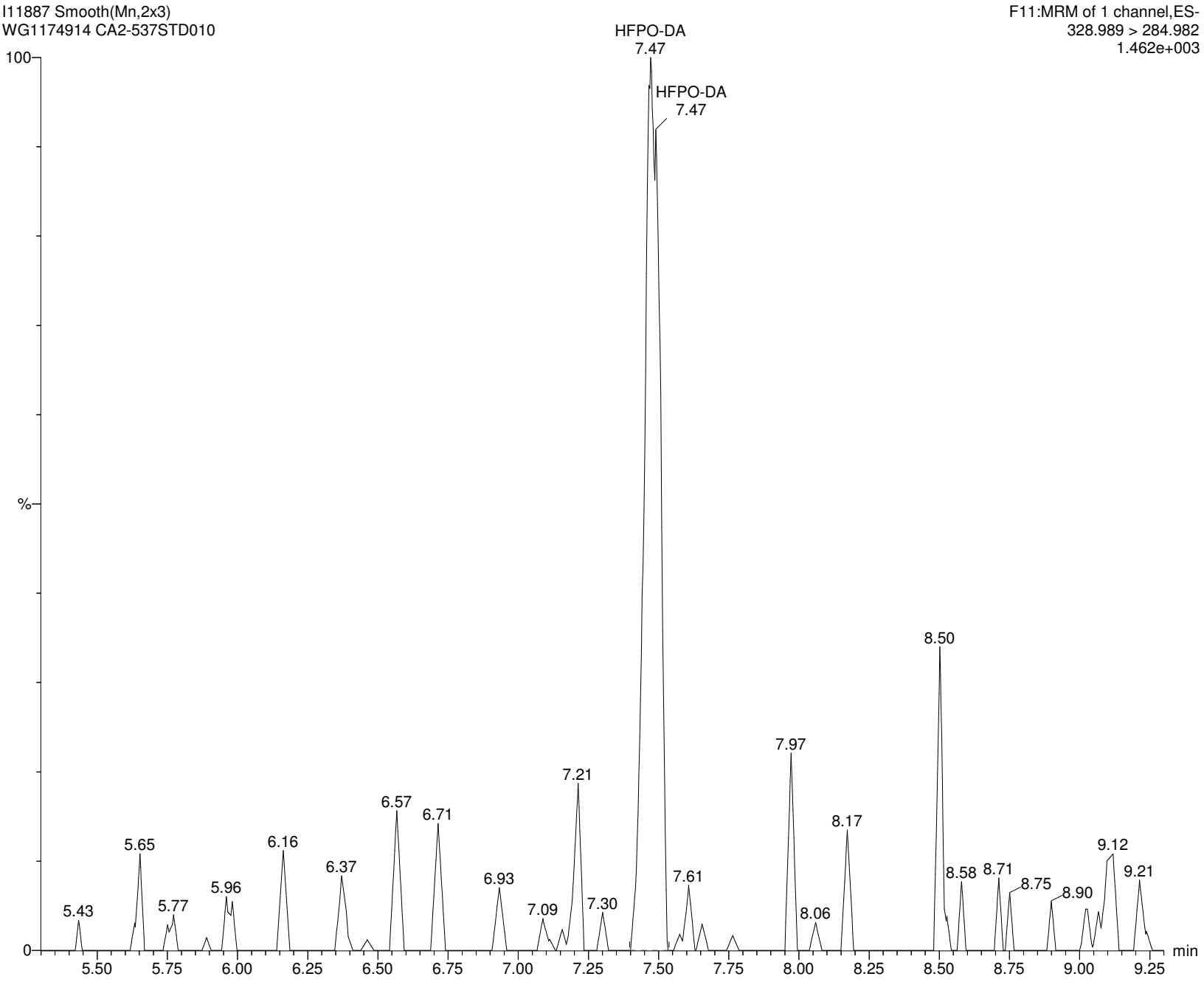

all concentration units in (ng/mL)

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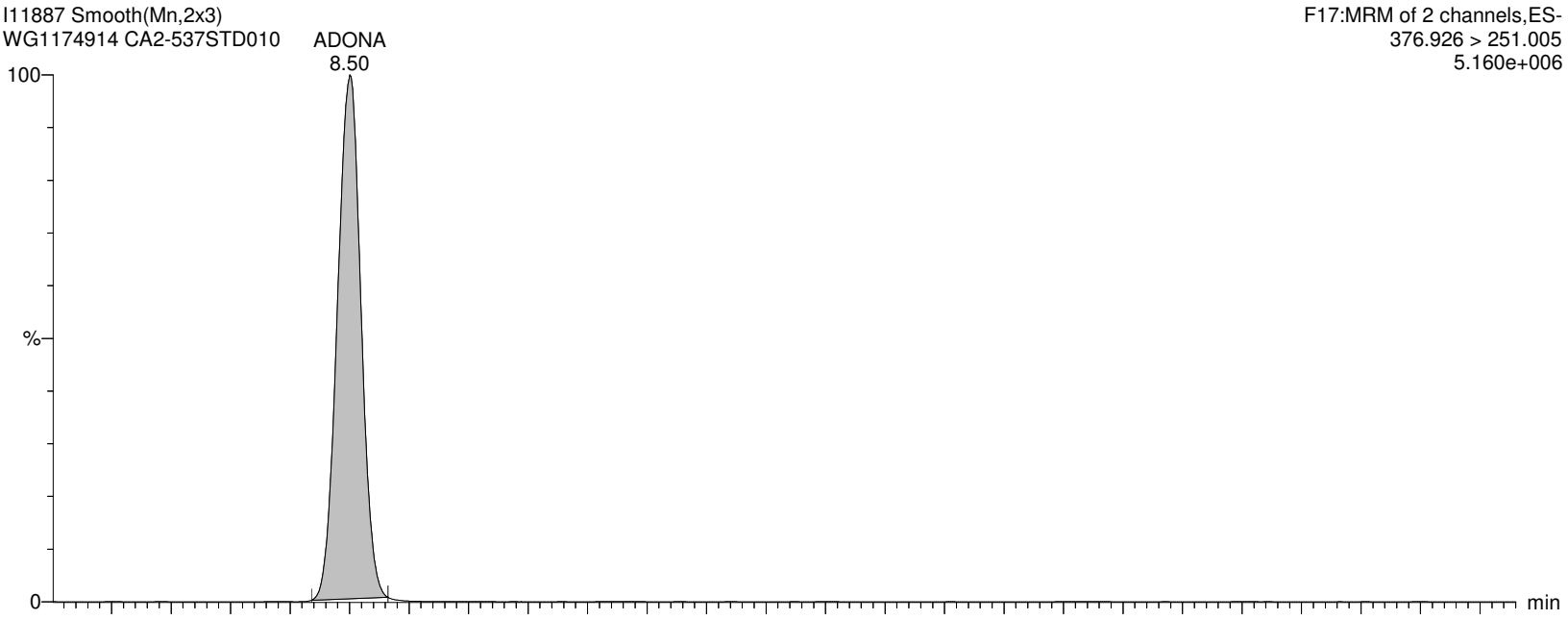

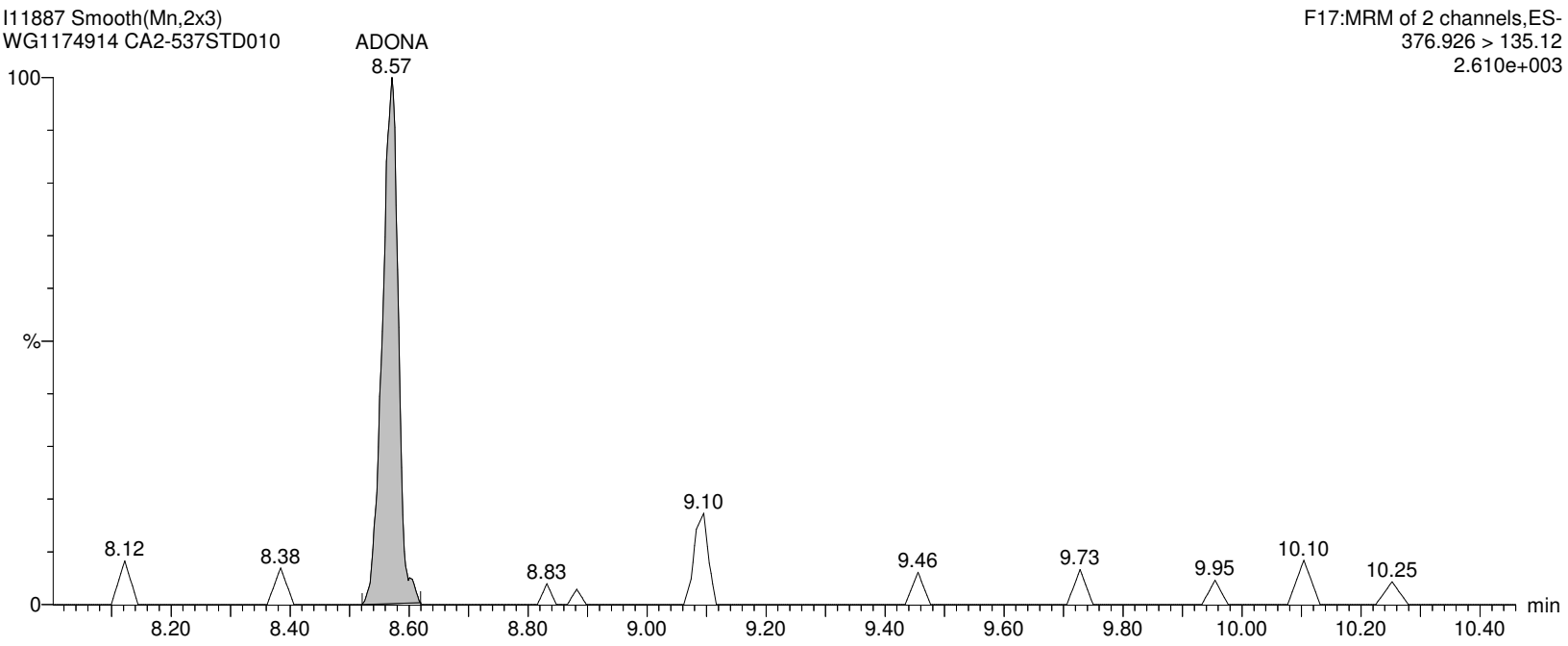

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Description: WG1174914
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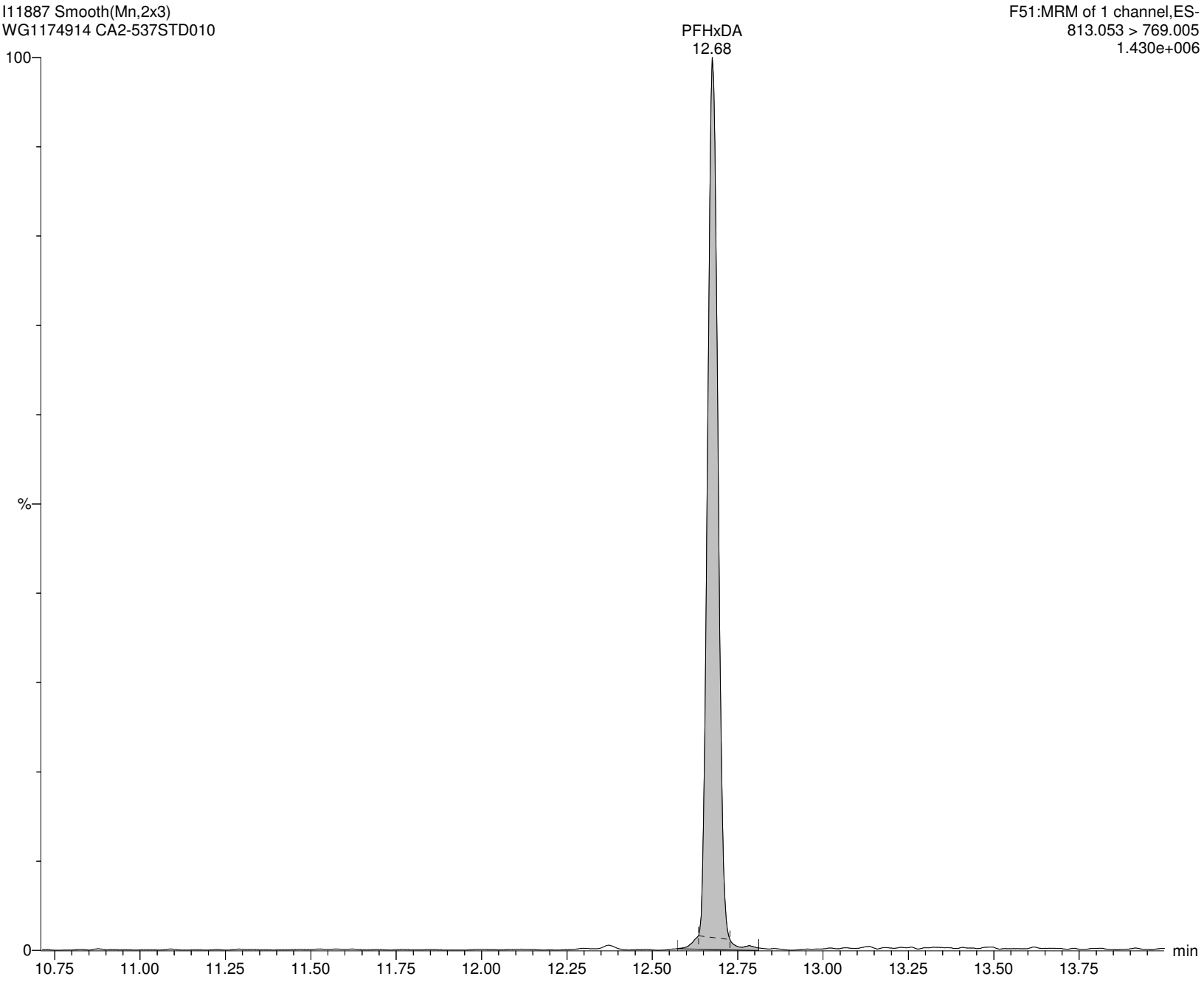

all concentration units in (ng/mL)

Alpha Analytical Inc.
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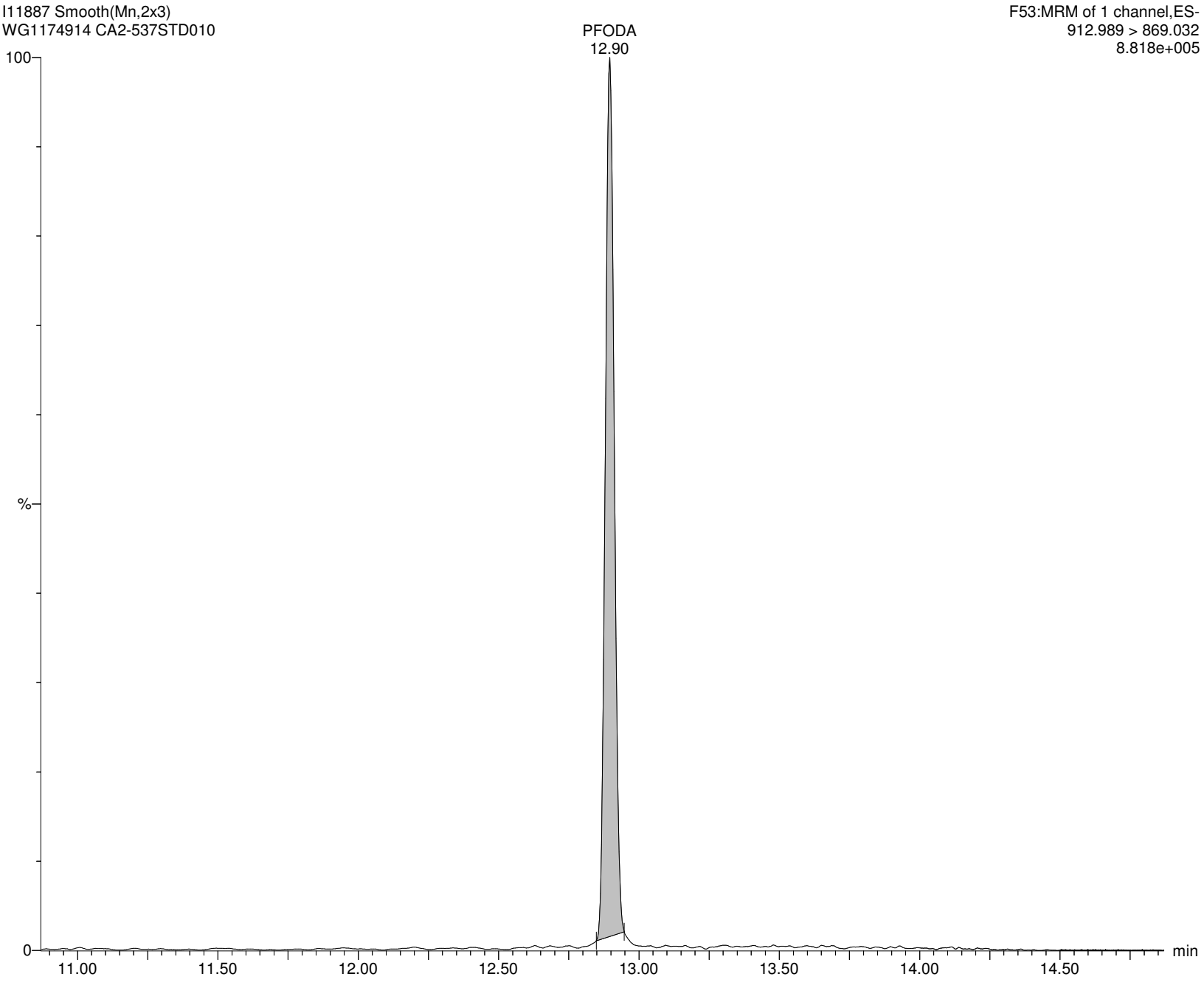

all concentration units in (ng/mL)

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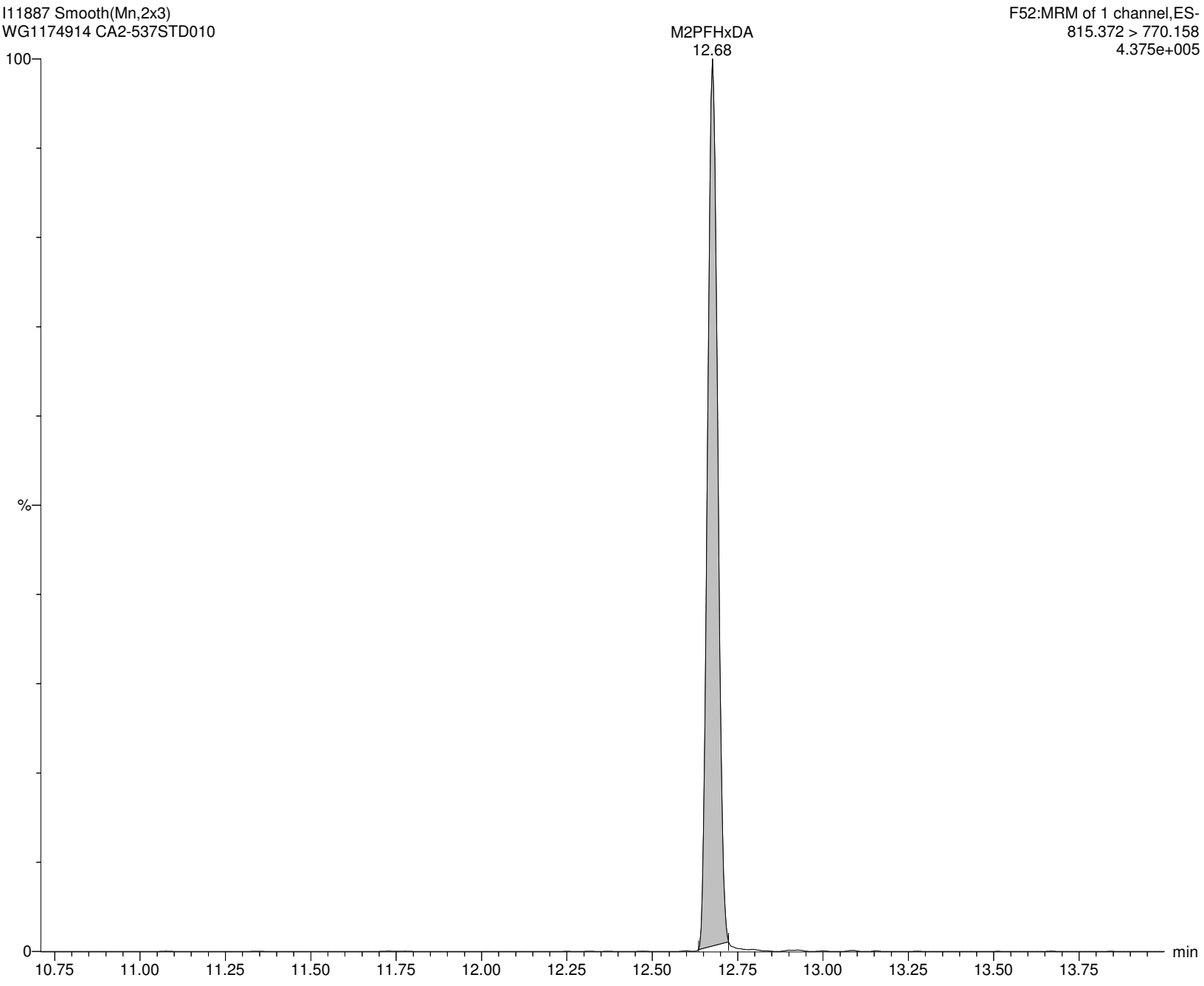

all concentration units in (ng/mL)

Continuing Calibration

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/08/18 13:12	
Lab File ID	: I12060	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177310-2	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	10.524	10.000	105.2	70-130
Perfluoropentanoic Acid (PFPeA)	10.642	10.000	106.4	70-130
Perfluorobutanesulfonic Acid (PFBS)	9.883	8.850	111.7	70-130
Perfluorohexanoic Acid (PFHxA)	10.593	10.000	105.9	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	9.788	9.350	104.7	70-130
Perfluoropentanesulfonic Acid (PFPeS)	8.268	9.400	88	70-130
Perfluoroheptanoic Acid (PFHpA)	10.720	10.000	107.2	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.454	1.720	85.5	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	7.964	7.400	107.6	70-130
Perfluorohexanesulfonic Acid (PFHxS)	9.418	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	10.730	10.000	107.3	70-130
Perfluorooctanoic Acid (PFOA)	10.730	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.450	9.500	110	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	10.727	9.500	112.9	70-130
Perfluorononanoic Acid (PFNA)	10.994	10.000	109.9	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	1.805	1.960	90.2	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	7.787	7.300	106.7	70-130
Perfluorooctanesulfonic Acid (PFOS)	9.592	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	10.665	10.000	106.7	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	10.547	9.600	109.9	70-130
Perfluorononanesulfonic Acid (PFNS)	12.371	9.600	128.9	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	12.267	10.000	122.7	70-130
Perfluoroundecanoic Acid (PFUnA)	10.263	10.000	102.6	70-130
Perfluorodecanesulfonic Acid (PFDS)	12.392	9.650	128.4	70-130
Perfluorooctanesulfonamide (FOSA)	10.166	10.000	101.7	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	9.708	10.000	97.1	70-130
Perfluorododecanoic Acid (PFDoA)	11.468	10.000	114.7	70-130
Perfluorotridecanoic Acid (PFTrDA)	13.995	10.000	140*	70-130
Perfluorotetradecanoic Acid (PFTA)	10.876	10.000	108.8	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.810	10.000	98.1	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	8.726	10.000	87.3	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.880	10.000	88.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	7.497	10.000	75	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.862	10.000	88.6	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.889	10.000	98.9	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	11.086	10.000	110.9	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.107	10.000	101.1	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	8.761	10.000	87.6	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.558	10.000	95.6	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.894	10.000	98.9	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.519	10.000	95.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	8.097	10.000	81	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.058	10.000	90.6	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.655	10.000	106.6	50-150

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/08/18 13:12	
Lab File ID	: I12060	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177310-2	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11.213	10.000	112.1	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.048	10.000	90.5	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.143	10.000	91.4	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.911	10.000	89.1	50-150
M4PFOS	12.200		122	
M2PFDA	10.510		105.1	
M2PFOA	10.641		106.4	
M3PFBA	11.312		113.1	

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/08/18 15:57	
Lab File ID	: I12070	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177310-3	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.491	0.500	98.1	50-150
Perfluoropentanoic Acid (PFPeA)	0.509	0.500	101.7	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.473	0.440	106.9	50-150
Perfluorohexanoic Acid (PFHxA)	0.481	0.500	96.2	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.497	0.470	106.3	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.362	0.470	77.1	50-150
Perfluoroheptanoic Acid (PFHpA)	0.509	0.500	101.8	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.054	0.090	63.6	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.379	0.370	102.3	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.433	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	0.533	0.500	106.6	50-150
Perfluorooctanoic Acid (PFOA)	0.533	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.371	0.480	78	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.481	0.480	101.3	50-150
Perfluorononanoic Acid (PFNA)	0.511	0.500	102.1	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.094	0.100	94.1	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.424	0.370	116.2	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.518	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.549	0.500	109.8	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.522	0.480	108.6	50-150
Perfluorononanesulfonic Acid (PFNS)	0.524	0.480	109.1	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.515	0.500	103	50-150
Perfluoroundecanoic Acid (PFUnA)	0.497	0.500	99.3	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.553	0.480	114.7	50-150
Perfluorooctanesulfonamide (FOSA)	0.472	0.500	94.5	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.476	0.500	95.2	50-150
Perfluorododecanoic Acid (PFDoA)	0.577	0.500	115.4	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.630	0.500	126	50-150
Perfluorotetradecanoic Acid (PFTA)	0.543	0.500	108.6	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.703	10.000	97	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	9.855	10.000	98.6	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.392	10.000	83.9	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	5.379	10.000	53.8	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.840	10.000	88.4	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.769	10.000	97.7	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	11.169	10.000	111.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.907	10.000	99.1	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	6.545	10.000	65.4	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.919	10.000	99.2	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.098	10.000	91	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.385	10.000	93.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	6.921	10.000	69.2	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8.350	10.000	83.5	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.977	10.000	109.8	50-150

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/08/18 15:57	
Lab File ID	: I12070	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177310-3	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.141	10.000	101.4	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.953	10.000	79.5	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.072	10.000	90.7	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.231	10.000	82.3	50-150
M4PFOS	12.121		121.2	
M2PFDA	10.979		109.8	
M2PFOA	10.563		105.6	
M3PFBA	9.554		95.5	

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 04:39	
Lab File ID	: I12144	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-5	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.493	0.500	98.6	50-150
Perfluoropentanoic Acid (PFPeA)	0.509	0.500	101.9	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.495	0.440	111.9	50-150
Perfluorohexanoic Acid (PFHxA)	0.500	0.500	100.1	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.455	0.470	97.4	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.392	0.470	83.5	50-150
Perfluoroheptanoic Acid (PFHpA)	0.487	0.500	97.3	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.057	0.090	67.2	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.367	0.370	99.2	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.424	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	0.523	0.500	104.5	50-150
Perfluorooctanoic Acid (PFOA)	0.523	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.548	0.480	115.4	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.439	0.480	92.4	50-150
Perfluorononanoic Acid (PFNA)	0.528	0.500	105.5	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.098	0.100	98.3	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.367	0.370	100.5	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.465	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.524	0.500	104.7	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.369	0.480	76.8	50-150
Perfluorononanesulfonic Acid (PFNS)	0.644	0.480	134.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.491	0.500	98.1	50-150
Perfluoroundecanoic Acid (PFUnA)	0.504	0.500	100.9	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.622	0.480	129	50-150
Perfluorooctanesulfonamide (FOSA)	0.486	0.500	97.2	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.553	0.500	110.7	50-150
Perfluorododecanoic Acid (PFDoA)	0.524	0.500	104.7	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.541	0.500	108.2	50-150
Perfluorotetradecanoic Acid (PFTA)	0.534	0.500	106.9	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.717	10.000	97.2	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	9.830	10.000	98.3	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	7.984	10.000	79.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	5.436	10.000	54.4	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.615	10.000	86.2	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.620	10.000	96.2	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.825	10.000	108.2	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.682	10.000	96.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	5.151	10.000	51.5	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	8.991	10.000	89.9	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.600	10.000	96	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.643	10.000	96.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	5.169	10.000	51.7	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	6.913	10.000	69.1	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.207	10.000	102.1	50-150

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 04:39	
Lab File ID	: I12144	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-5	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.361	10.000	103.6	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	6.307	10.000	63.1	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.273	10.000	92.7	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.657	10.000	86.6	50-150
M4PFOS	11.469		114.7	
M2PFDA	9.903		99	
M2PFOA	10.280		102.8	
M3PFBA	8.235		82.4	

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 08:14	
Lab File ID	: I12157	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-6	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	10.659	10.000	106.6	70-130
Perfluoropentanoic Acid (PFPeA)	10.524	10.000	105.2	70-130
Perfluorobutanesulfonic Acid (PFBS)	9.653	8.850	109.1	70-130
Perfluorohexanoic Acid (PFHxA)	10.697	10.000	107	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	9.613	9.350	102.8	70-130
Perfluoropentanesulfonic Acid (PFPeS)	8.372	9.400	89.1	70-130
Perfluoroheptanoic Acid (PFHpA)	10.799	10.000	108	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.515	1.720	89.1	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	7.797	7.400	105.4	70-130
Perfluorohexanesulfonic Acid (PFHxS)	9.312	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	10.867	10.000	108.7	70-130
Perfluorooctanoic Acid (PFOA)	10.867	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.248	9.500	107.9	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	10.837	9.500	114.1	70-130
Perfluorononanoic Acid (PFNA)	11.001	10.000	110	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	1.852	1.960	92.6	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	7.552	7.300	103.4	70-130
Perfluorooctanesulfonic Acid (PFOS)	9.403	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	10.564	10.000	105.6	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	10.173	9.600	106	70-130
Perfluorononanesulfonic Acid (PFNS)	12.804	9.600	133.4*	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	11.024	10.000	110.2	70-130
Perfluoroundecanoic Acid (PFUnA)	10.412	10.000	104.1	70-130
Perfluorodecanesulfonic Acid (PFDS)	12.685	9.650	131.5*	70-130
Perfluorooctanesulfonamide (FOSA)	10.217	10.000	102.2	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	9.549	10.000	95.5	70-130
Perfluorododecanoic Acid (PFDoA)	11.493	10.000	114.9	70-130
Perfluorotridecanoic Acid (PFTrDA)	11.996	10.000	120	70-130
Perfluorotetradecanoic Acid (PFTA)	11.314	10.000	113.1	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.781	10.000	97.8	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	9.702	10.000	97	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.554	10.000	85.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	5.723	10.000	57.2	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	9.257	10.000	92.6	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.297	10.000	103	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	11.118	10.000	111.2	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.133	10.000	101.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	5.614	10.000	56.1	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.307	10.000	93.1	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.524	10.000	95.2	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.645	10.000	96.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	5.321	10.000	53.2	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8.113	10.000	81.1	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.484	10.000	104.8	50-150

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 08:14	
Lab File ID	: I12157	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-6	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.735	10.000	107.3	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.715	10.000	77.1	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.539	10.000	95.4	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.275	10.000	92.8	50-150
M4PFOS	11.968		119.7	
M2PFDA	10.019		100.2	
M2PFOA	10.464		104.6	
M3PFBA	9.656		96.6	

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 10:43	
Lab File ID	: I12166	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-7	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.489	0.500	97.8	50-150
Perfluoropentanoic Acid (PFPeA)	0.502	0.500	100.3	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.440	0.440	99.4	50-150
Perfluorohexanoic Acid (PFHxA)	0.507	0.500	101.3	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.482	0.470	103.1	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.427	0.470	90.9	50-150
Perfluoroheptanoic Acid (PFHpA)	0.502	0.500	100.3	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.062	0.090	73.2	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.414	0.370	112	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.476	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	0.544	0.500	108.8	50-150
Perfluorooctanoic Acid (PFOA)	0.544	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.478	0.480	100.7	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.434	0.480	91.5	50-150
Perfluorononanoic Acid (PFNA)	0.514	0.500	102.8	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.089	0.100	88.8	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.381	0.370	104.3	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.470	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.493	0.500	98.7	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.637	0.480	132.7	50-150
Perfluorononanesulfonic Acid (PFNS)	0.582	0.480	121.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.483	0.500	96.6	50-150
Perfluoroundecanoic Acid (PFUnA)	0.498	0.500	99.6	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.508	0.480	105.3	50-150
Perfluorooctanesulfonamide (FOSA)	0.428	0.500	85.7	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.483	0.500	96.6	50-150
Perfluorododecanoic Acid (PFDoA)	0.566	0.500	113.1	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.584	0.500	116.9	50-150
Perfluorotetradecanoic Acid (PFTA)	0.542	0.500	108.5	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.659	10.000	96.6	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	9.680	10.000	96.8	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	7.926	10.000	79.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	4.894	10.000	48.9*	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	9.182	10.000	91.8	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.183	10.000	101.8	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.043	10.000	100.4	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.847	10.000	98.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	4.666	10.000	46.7*	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.223	10.000	92.2	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.413	10.000	94.1	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.819	10.000	98.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	4.708	10.000	47.1*	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8.183	10.000	81.8	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.679	10.000	106.8	50-150

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CDM Smith, Inc.	**Lab Number**	: L1844318	
Project Name	: REYNOLDS PLANT EMERGING CONTAM	**Project Number**	: 85906	
Instrument ID	: LCMS01	**Calibration Date**	: 11/10/18 10:43	
Lab File ID	: I12166	**Init. Calib. Date(s)**	: 11/01/18	11/01/18
Sample No	: WG1177819-7	**Init. Calib. Times**	: 16:45	18:58
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.892	10.000	108.9	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.468	10.000	74.7	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.265	10.000	92.6	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.095	10.000	90.9	50-150
M4PFOS	11.848		118.5	
M2PFDA	9.795		97.9	
M2PFOA	10.032		100.3	
M3PFBA	8.783		87.8	

* Value outside of QC limits.

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Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 01 Nov 2018 18:33:29
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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Description: WG1177310,WG1175174,ICAL15200,537IMED
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User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	89767		10.524		na	105.2
2	M3PFBA	INT STD	2.16	215.926 > 172.122	104710		11.312		na	113.1
3	MPFBA	INT STD	2.15	216.926 > 172.137	97576		9.810		na	98.1
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	112327		10.642		na	106.4
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	111999		8.726		na	87.3
6	PFBS	375-73-5	5.81	298.989 > 80.295	19169		9.883		na	111.7
7	M3PFBS	INT STD	5.81	301.989 > 80.254	21878		8.880		na	88.8
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	11070		9.788	2.11	YES	104.7
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	11457		7.497		na	75.0
10	PFHxA	307-24-4	7.07	312.989 > 269.028	131862		10.593	19.52	NO	105.9
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	128273		8.862		na	88.6
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	21701		8.268	2.02	NO	88.0
13	PFHpA	375-85-9	8.34	362.926 > 319.014	177627		10.720	5.33	NO	107.2
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	168312		9.889		na	98.9
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	3590		1.454	2.09	YES	85.5
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	17036		7.964	1.45	NO	107.6
17	PFHxS	355-46-4		398.926 > 80.295	20626		9.418		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	15171		11.086		na	110.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	171436		10.730	9.33	NO	107.3
21	M2PFOA	INT STD	9.28	415.032 > 369.968	200919		10.641		na	106.4
22	PFOA	335-67-1		412.989 > 368.9	171436		10.730		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	163768		10.107		na	101.1
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	11328		10.450	1.02	NO	110.0
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	11115		8.761		na	87.6
26	PFHpS	375-92-8	9.37	448.926 > 80.257	12110		10.727	0.89	YES	112.9
27	PFNA	375-95-1	10.03	462.989 > 418.931	141839		10.994	4.49	NO	109.9
28	M9PFNA	INT STD	10.03	472.053 > 426.947	154470		9.558		na	95.6
29	br-PFOS	1763-23-1	9.90	498.989 > 80.294	4823		1.805	4.28	YES	90.2
30	L-PFOS	1763-23-1	10.08	498.989 > 80.294	14831		7.787	1.73	YES	106.7
31	PFOS	1763-23-1		498.989 > 80.294	19655		9.592		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	19764		12.200		na	122.0
33	M8PFOS	INT STD	10.08	507.053 > 80.294	18235		9.894		na	98.9
34	PFDA	335-76-2	10.66	513.053 > 468.906	127049		10.665	6.18	NO	106.7
35	M2PFDA	INT STD	10.66	515.053 > 469.934	156238		10.510		na	105.1
36	M6PFDA	INT STD	10.66	519.053 > 473.931	134289		9.519		na	95.2
37	8:2FTS	39108-34-4	10.65	526.989 > 506.946	7642		10.547		na	109.9
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	6032		8.097		na	81.0
39	PFNS	68259-12-1	10.69	548.989 > 80.249	15582		12.371	1.30	NO	128.9

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	13775		9.058		na	90.6
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	16998		12.267		na	122.7
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	128290		10.263	7.34	NO	102.6
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	125812		10.655		na	106.6
44	PFDS	335-77-3	11.21	598.926 > 80.314	13729		12.392	1.19	NO	128.4
45	FOSA	754-91-6	11.12	497.989 > 78.245	56116		10.166		na	101.7
46	M8FOSA	INT STD	11.11	506.053 > 78.286	56435		11.213		na	112.1
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	13273		9.048		na	90.5
48	NEtFOSAA	2991-50-6	11.34	583.989 > 418.927	13174		9.708	2.82	YES	97.1
49	PFDoA	307-55-1	11.67	612.989 > 568.967	129699		11.468	14.28	NO	114.7
50	MPFDOA	INT STD	11.67	614.989 > 569.92	121290		9.143		na	91.4
51	PFTrDA	72629-94-8	12.08	663.053 > 618.969	133111		13.995	12.45	NO	140.0
52	PFTA	376-06-7	12.40	713.053 > 668.976	79969		10.876	9.56	NO	108.8
53	M2PFTEDA	INT STD	12.40	715.053 > 669.945	87567		8.911		na	89.1

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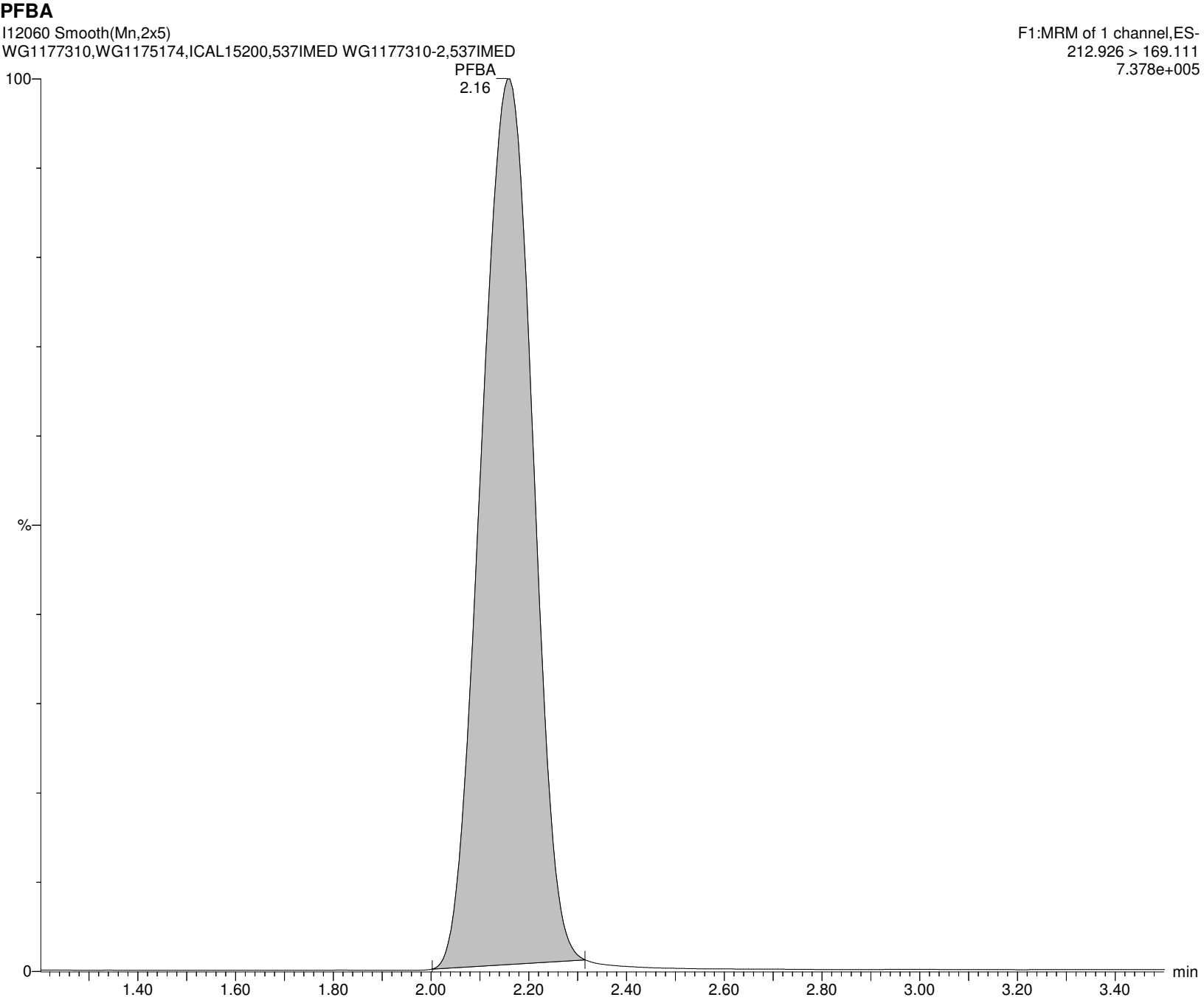

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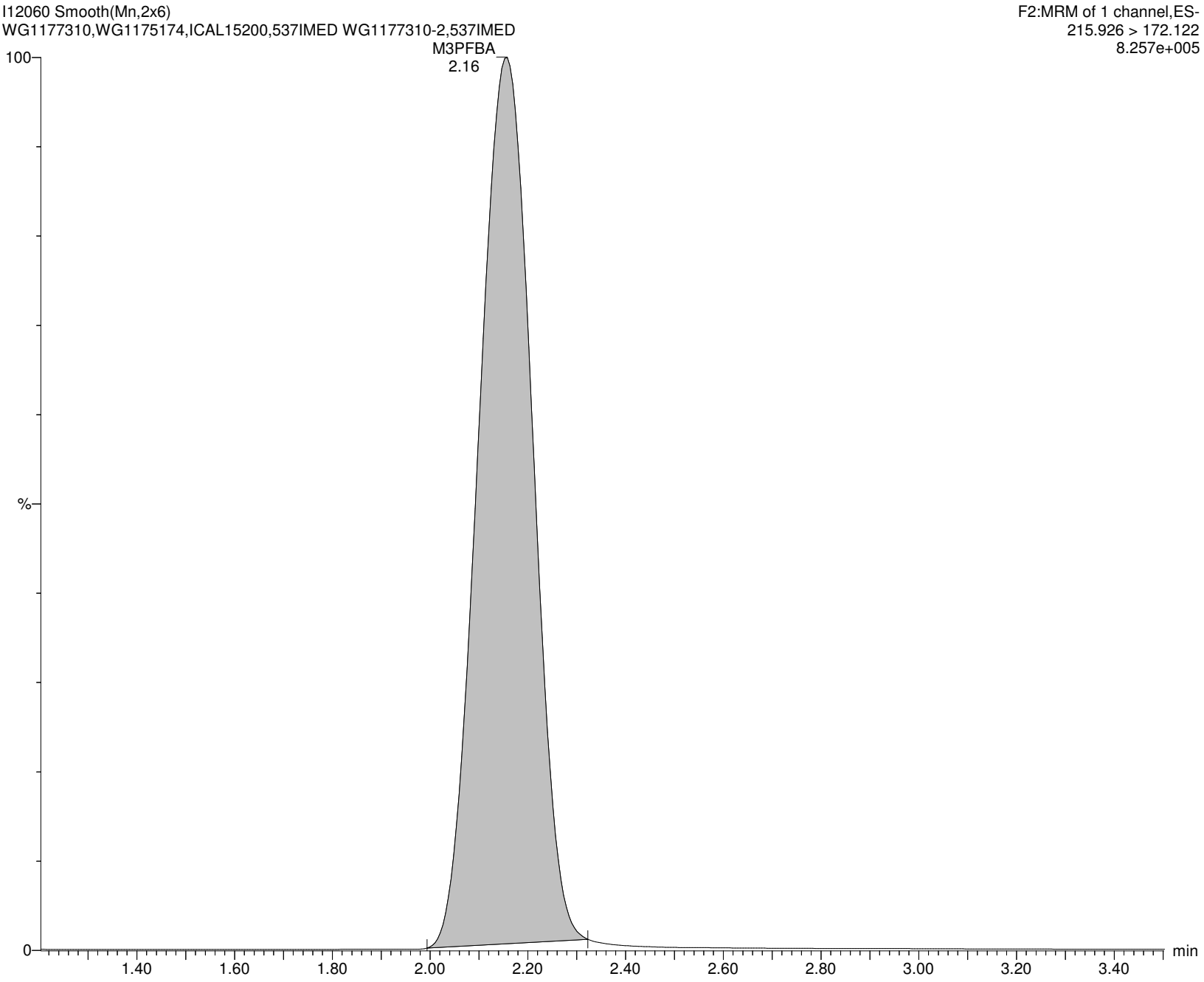

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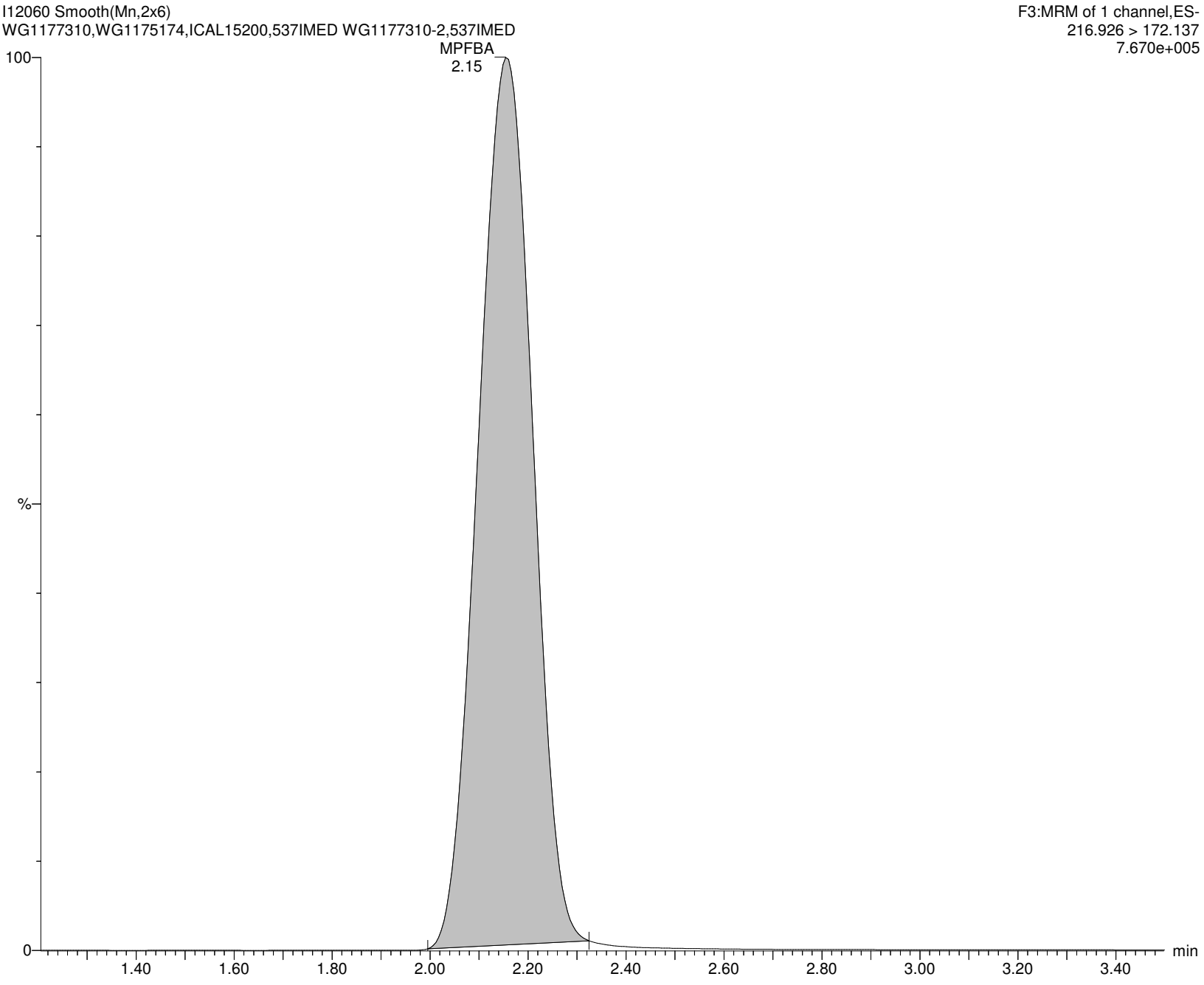
MPFBA



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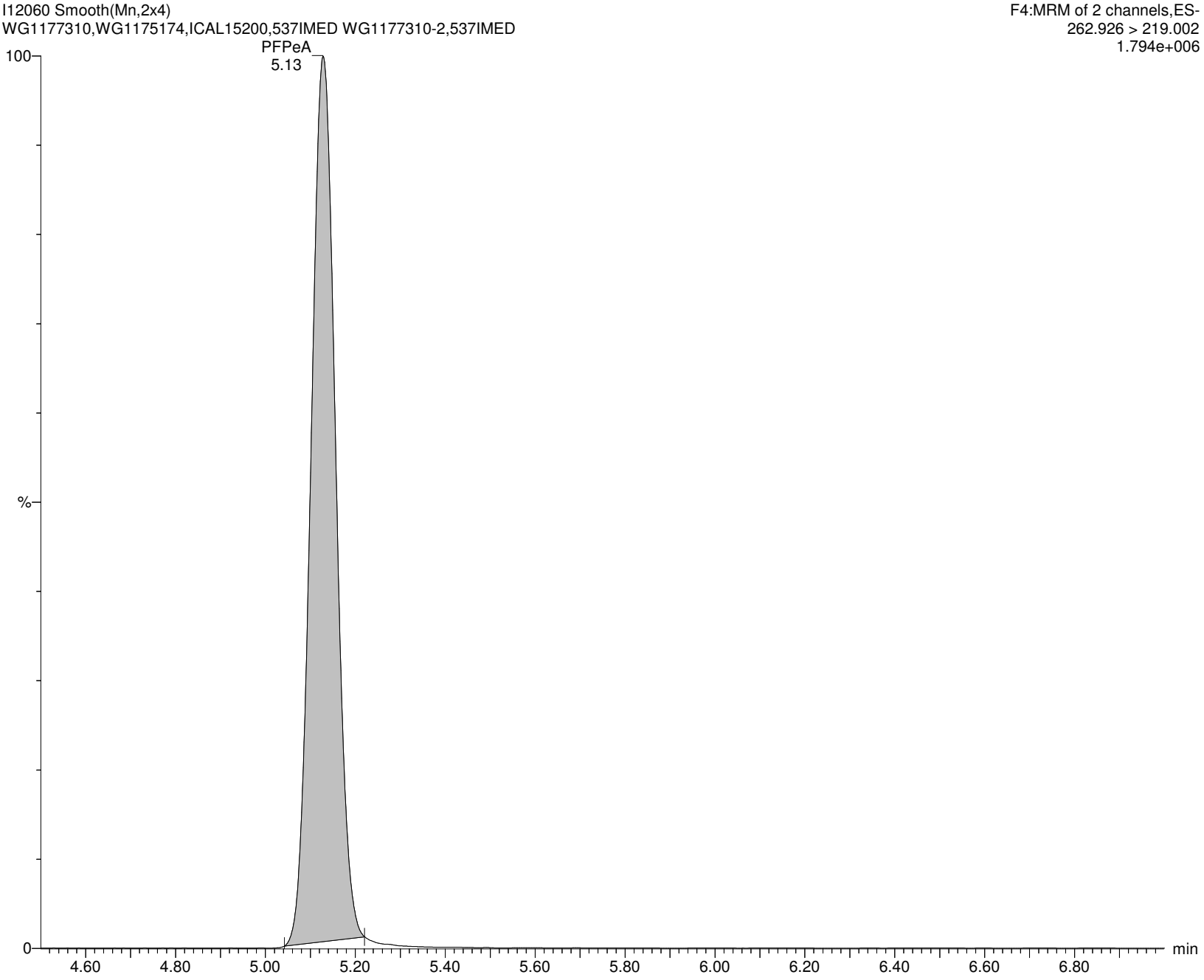
PFPeA



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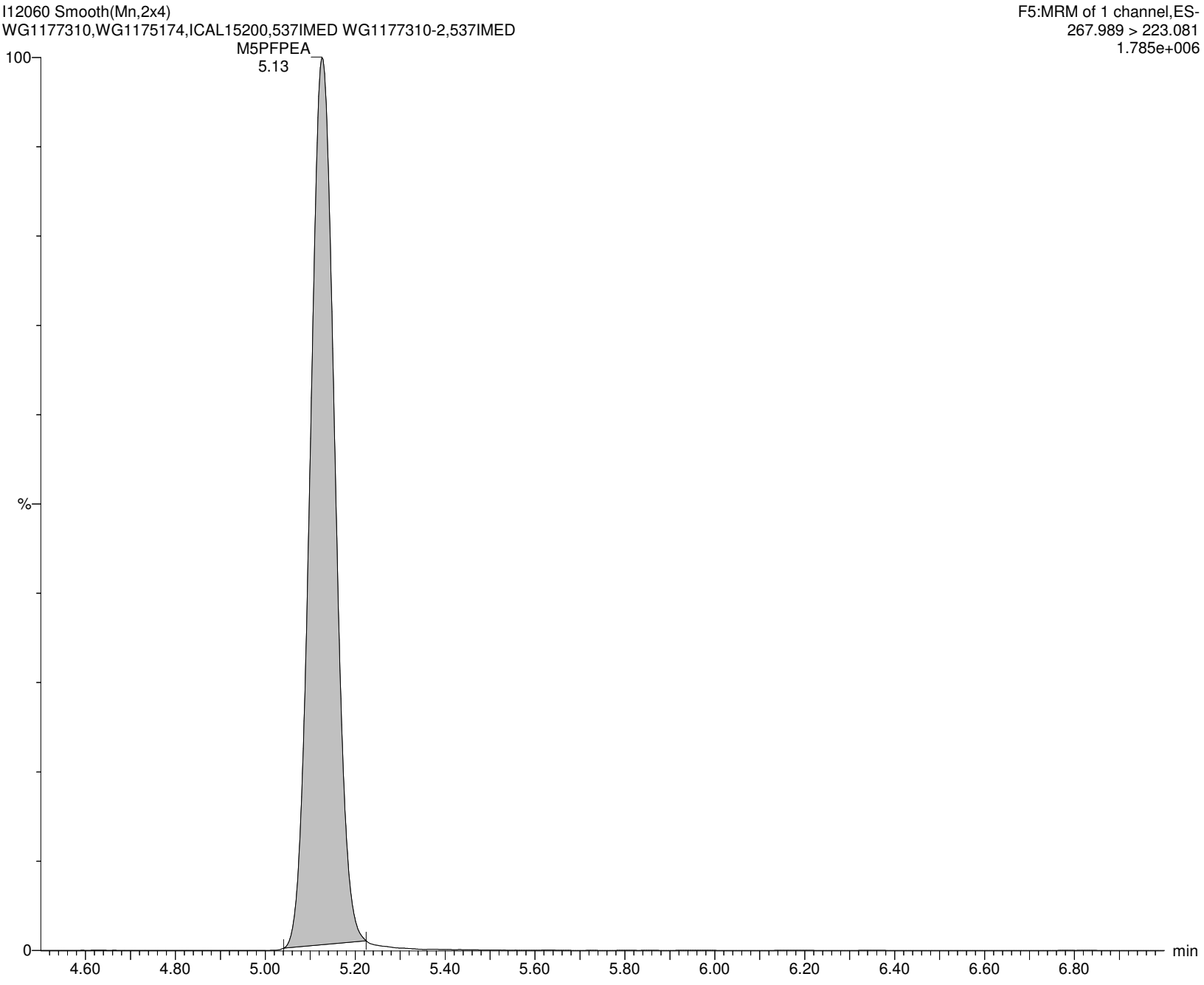
M5PFPEA



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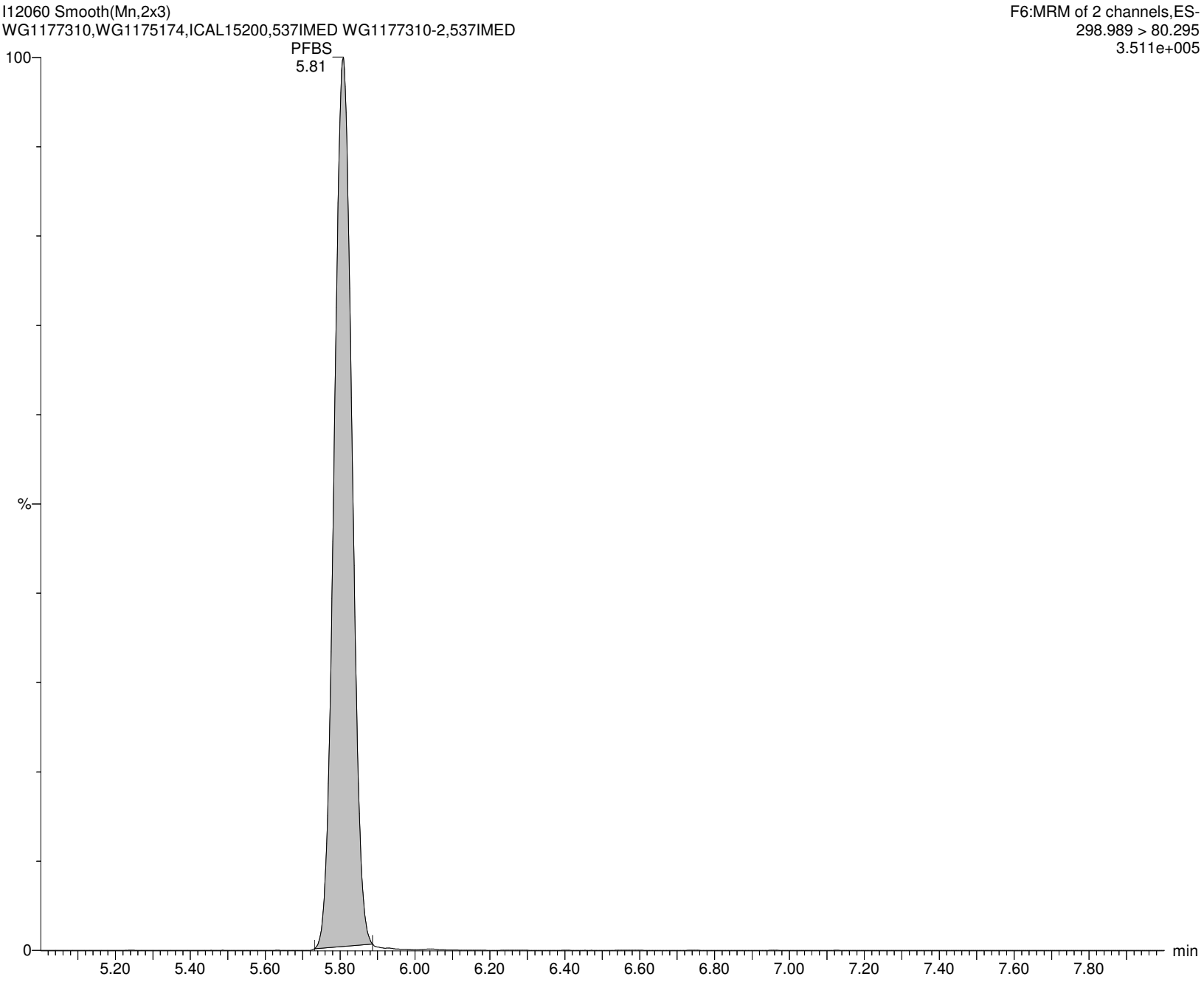
PFBS



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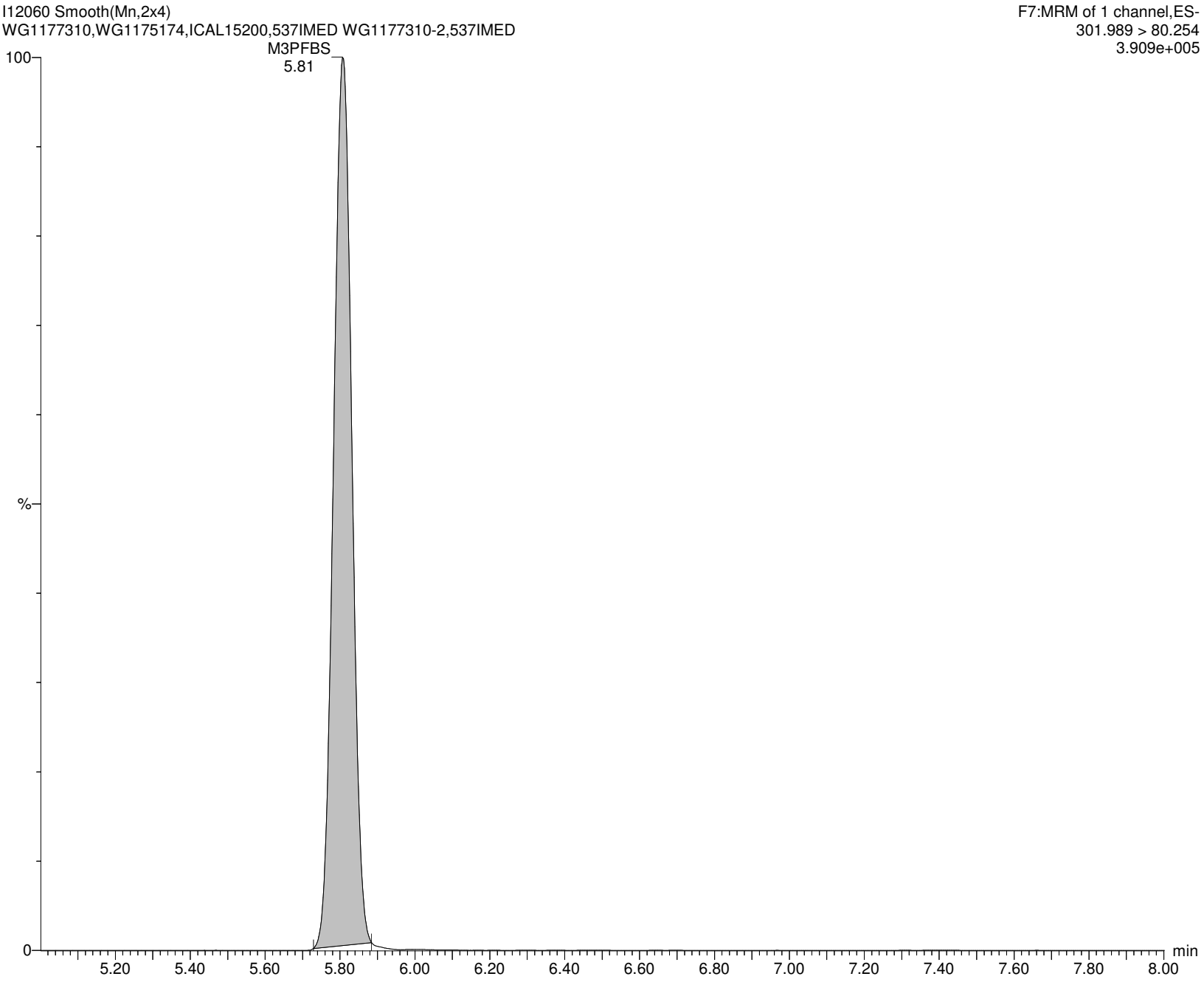
M3PFBS



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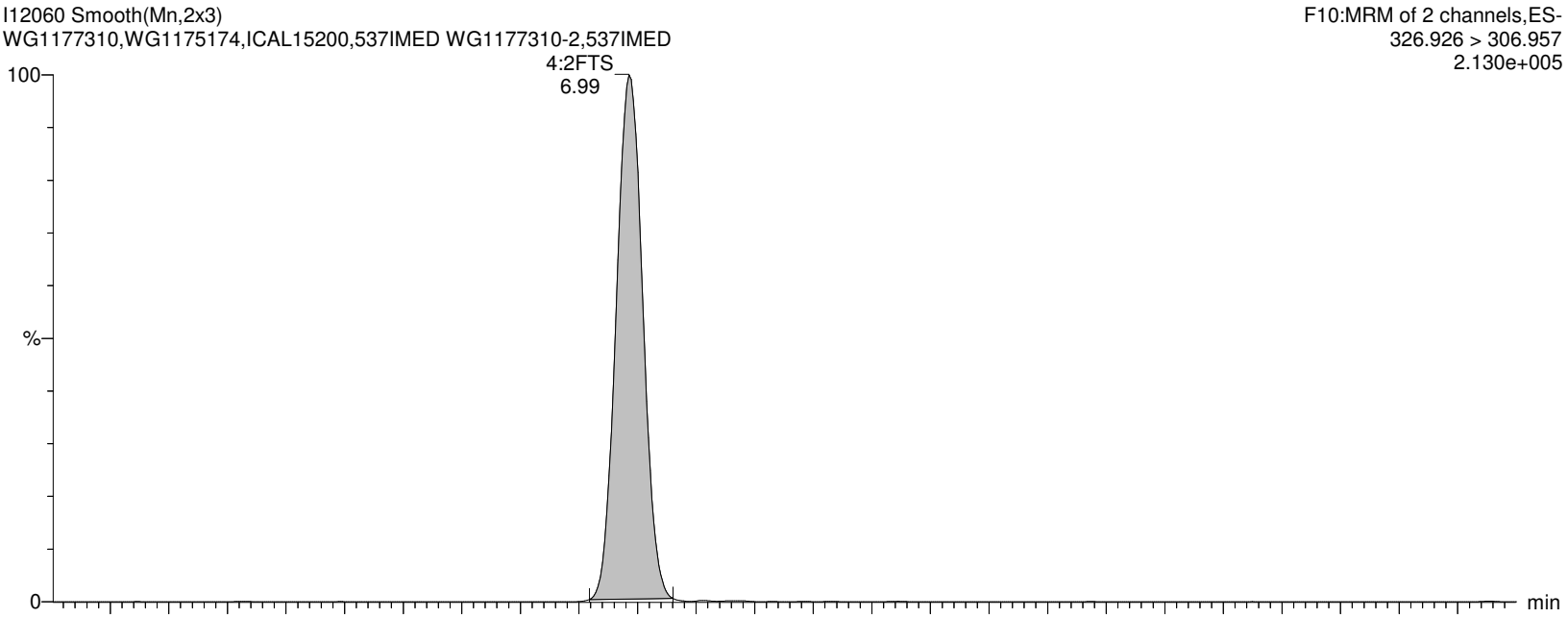
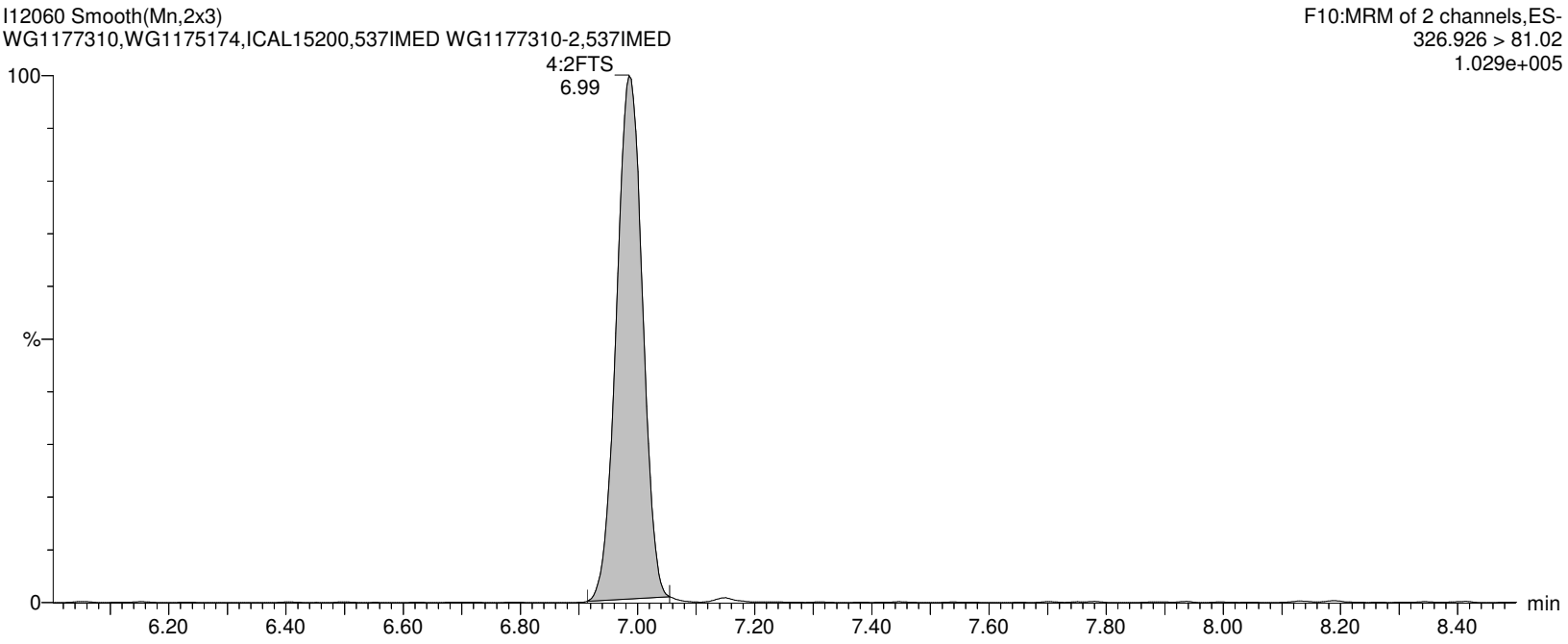
4:2FTS





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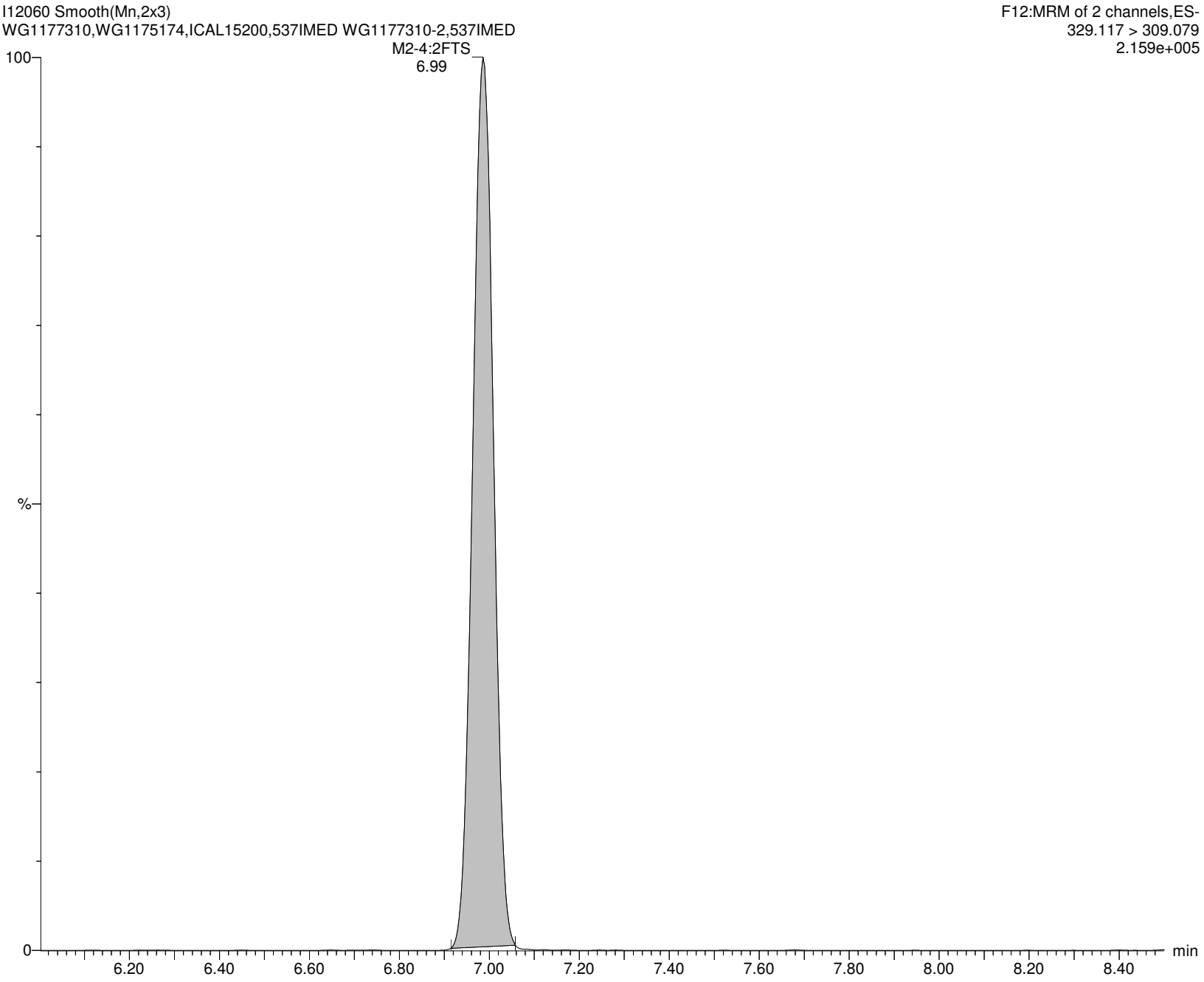
M2-4:2FTS



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Date: 08-Nov-2018
Time: 13:12:24
Description: WG1177310,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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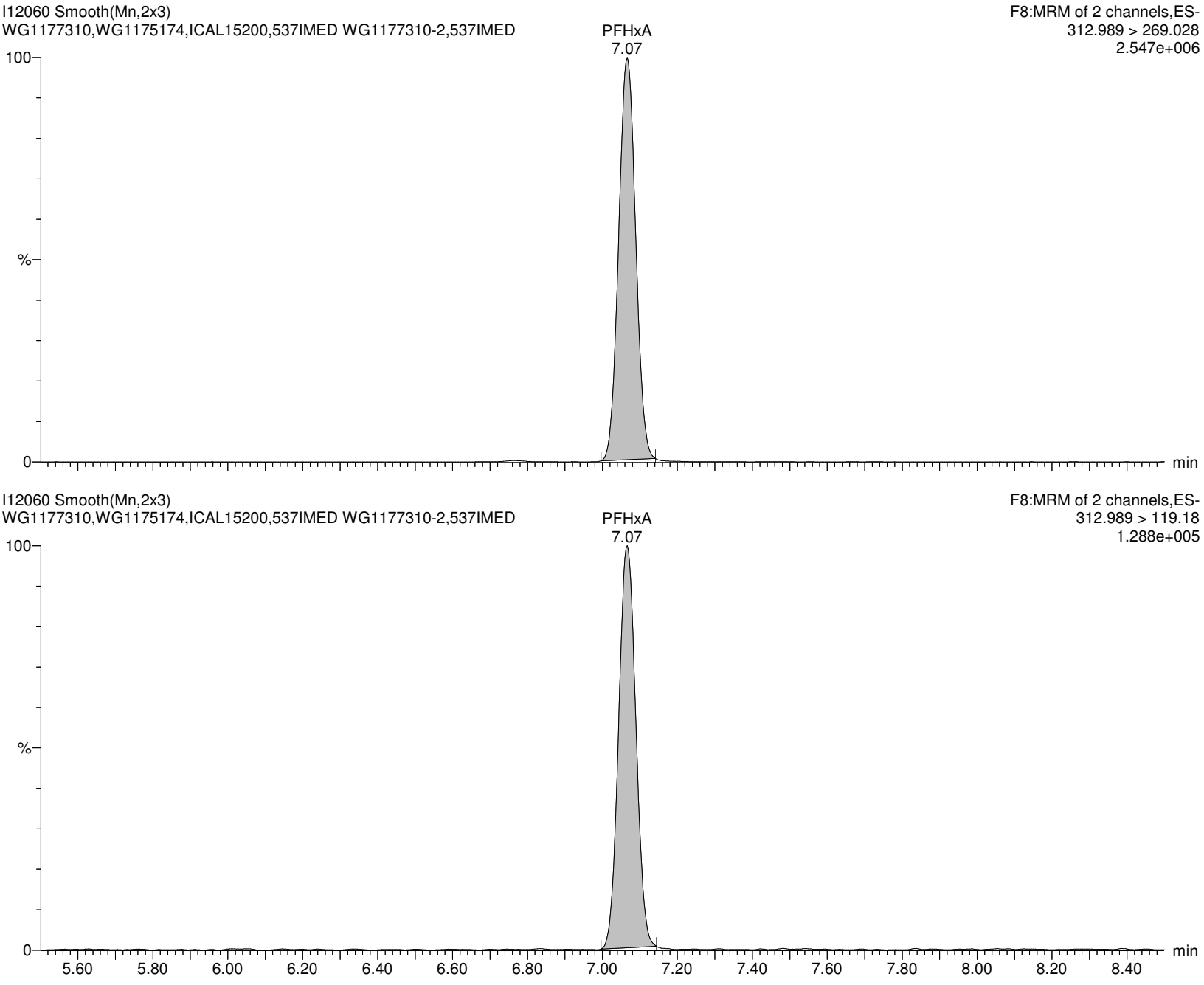

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310A.qld
Last Altered: Thursday, November 08, 2018 14:15:31 Eastern Standard Time
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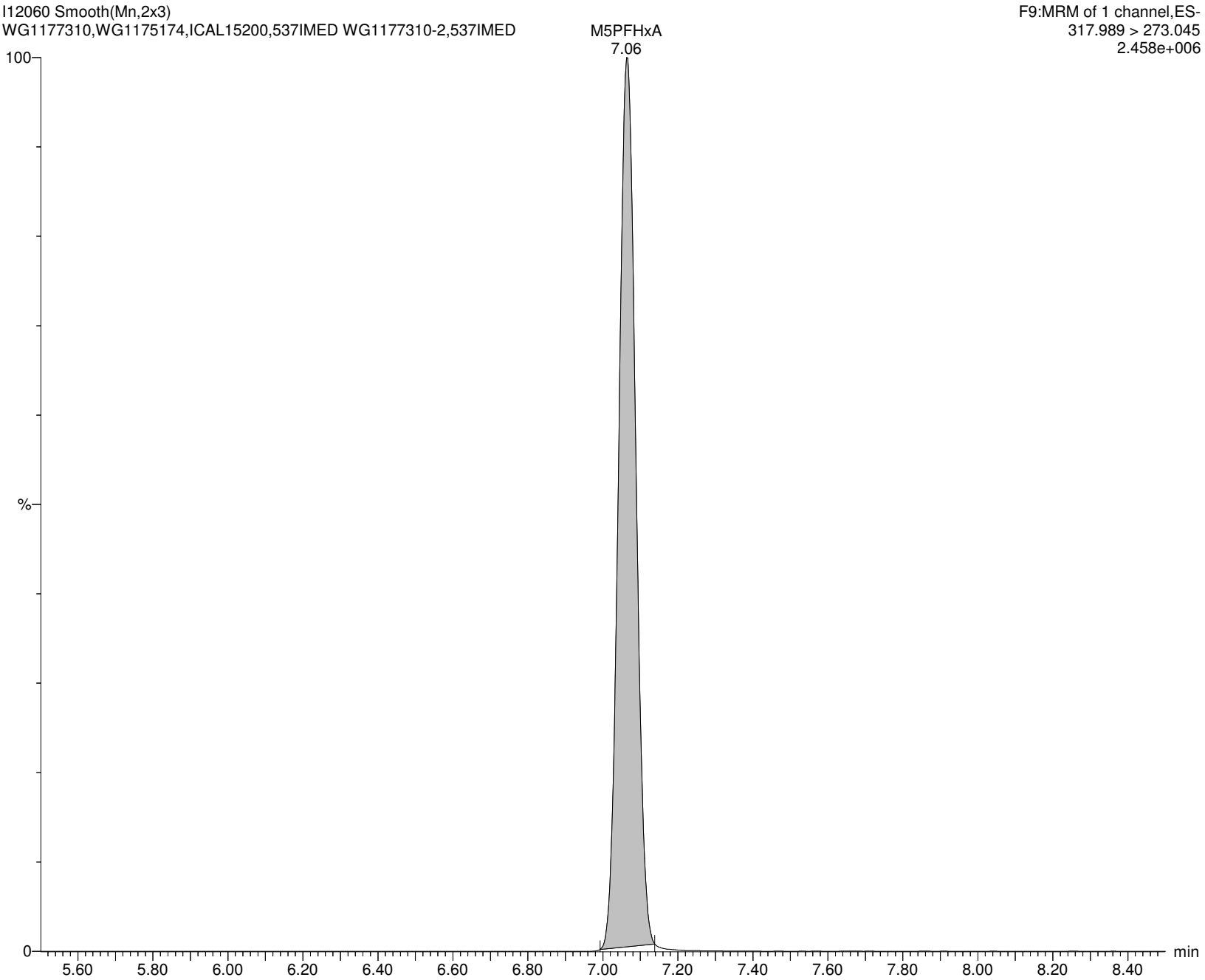

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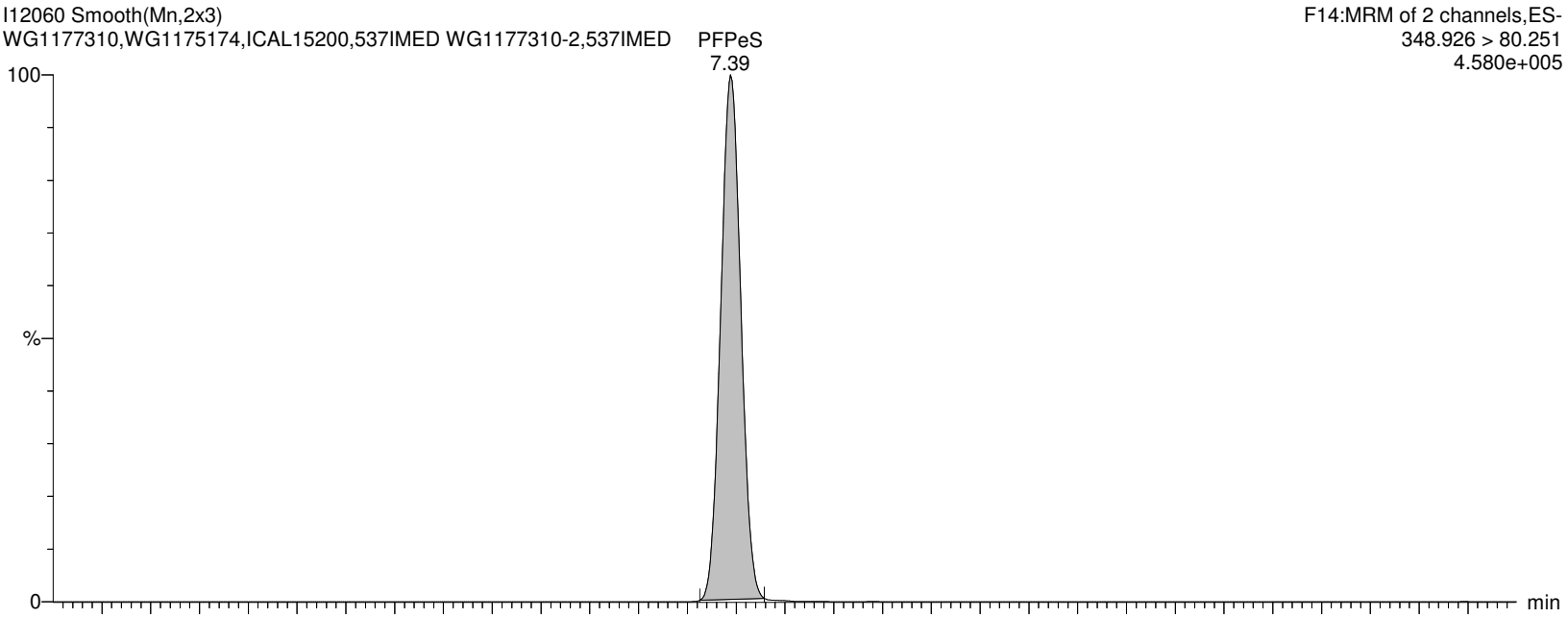

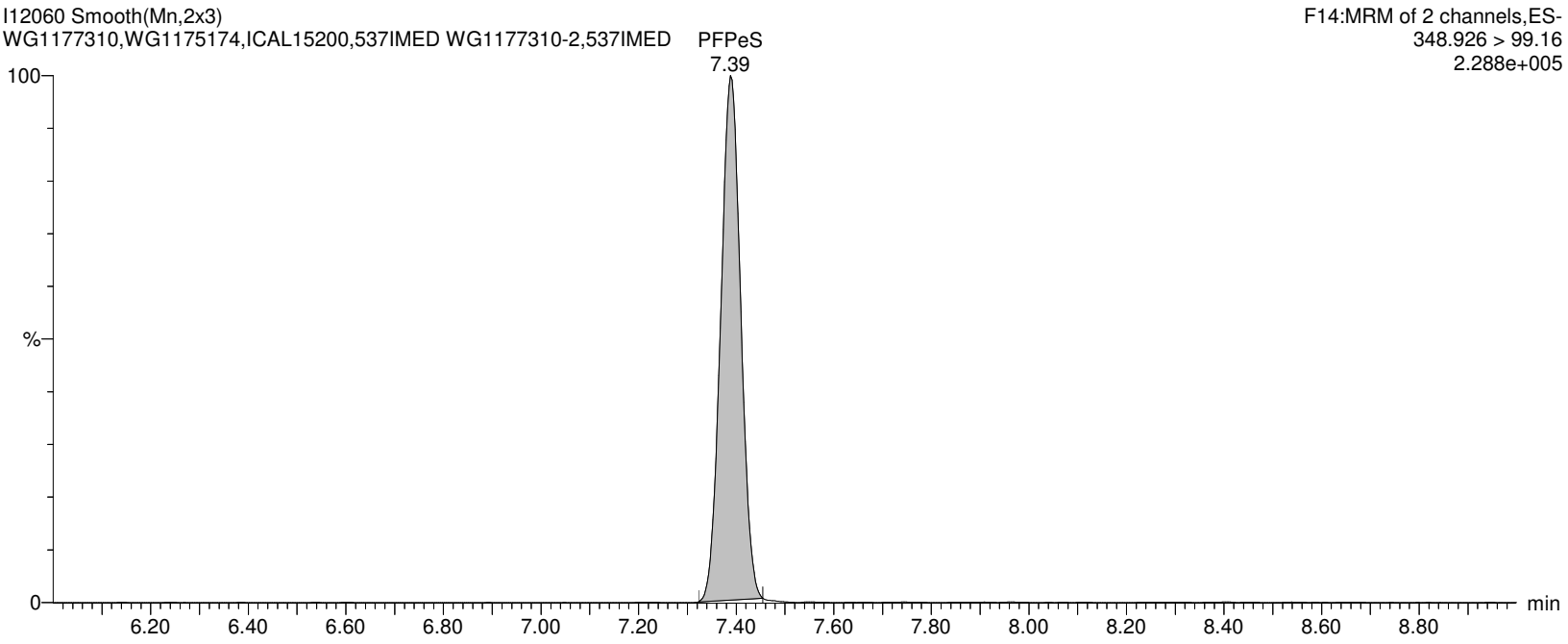

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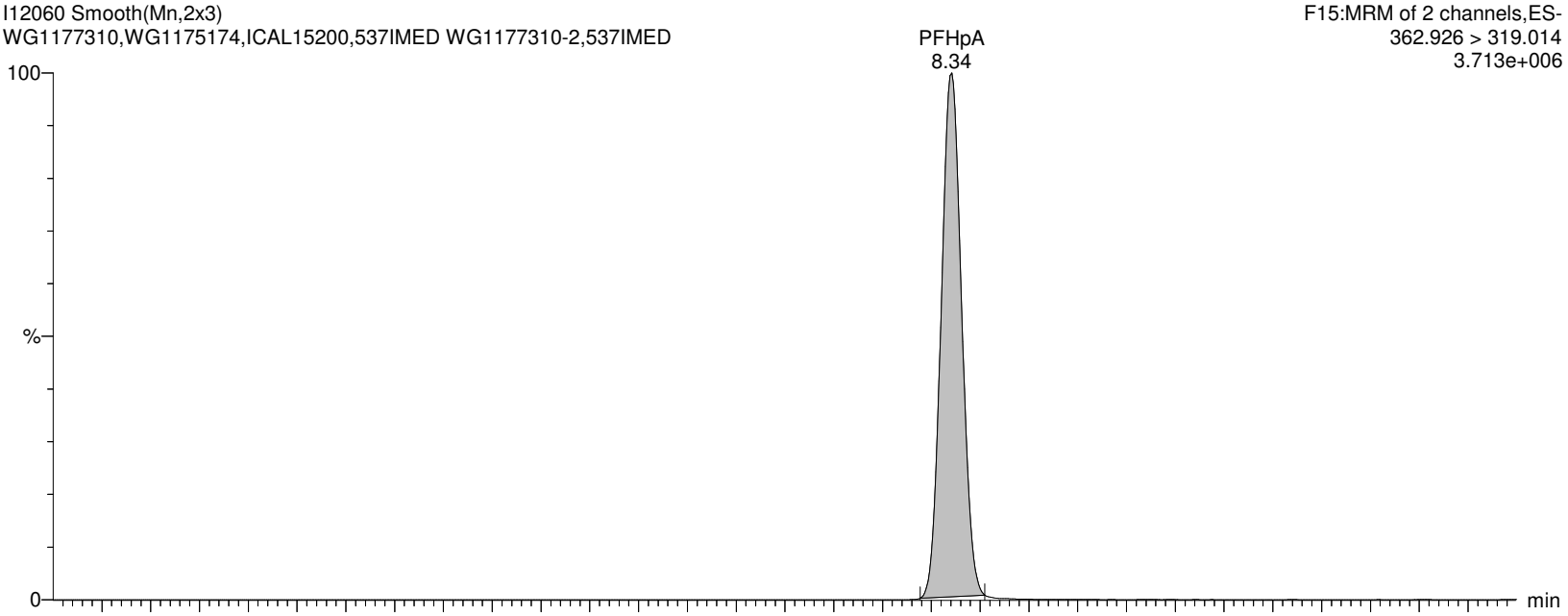

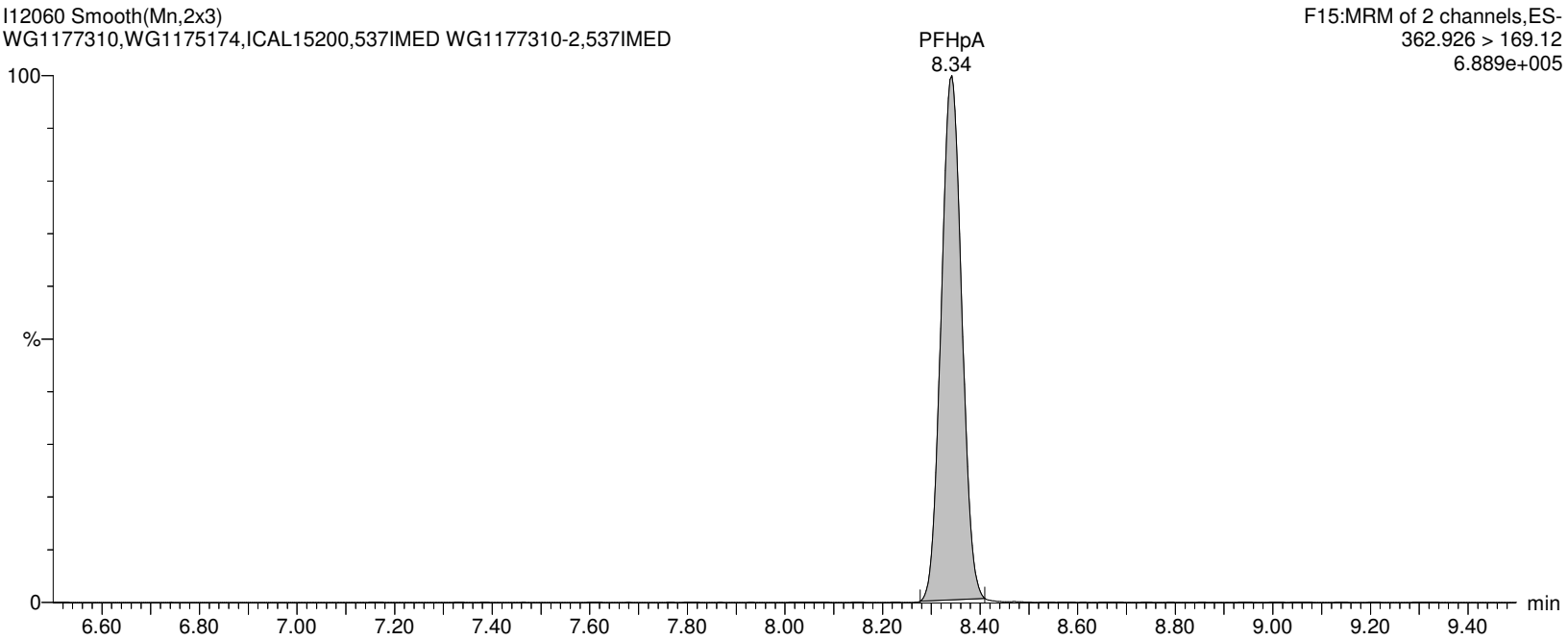

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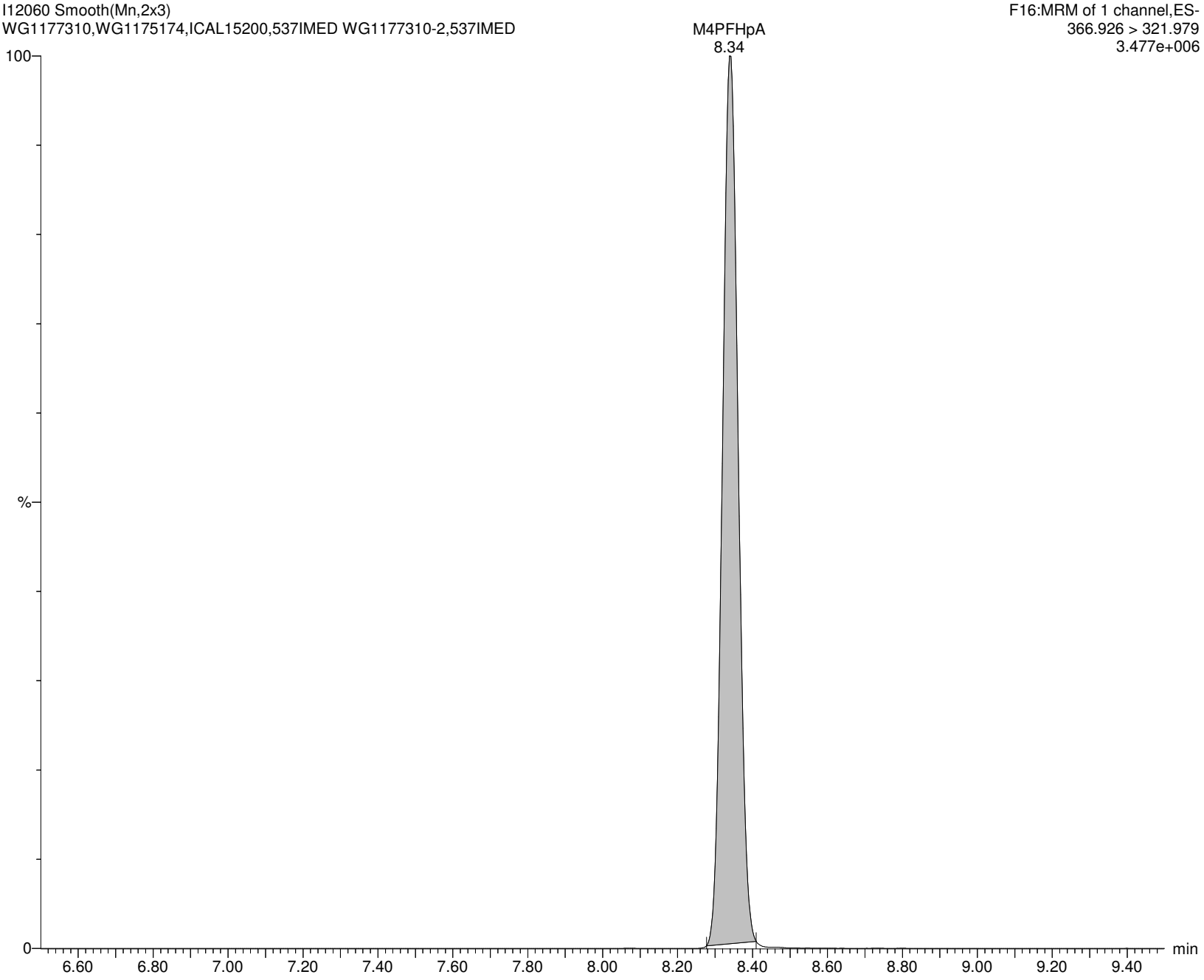

all concentration units in (ng/mL)

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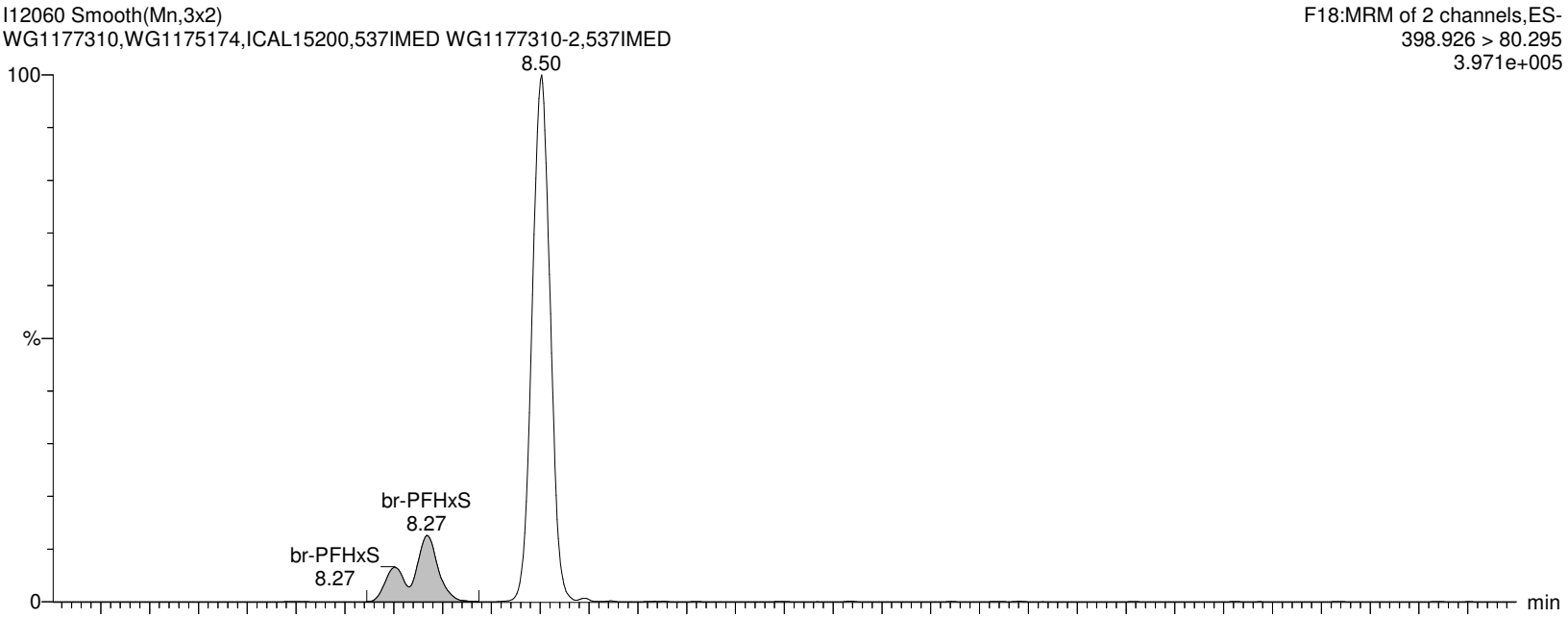

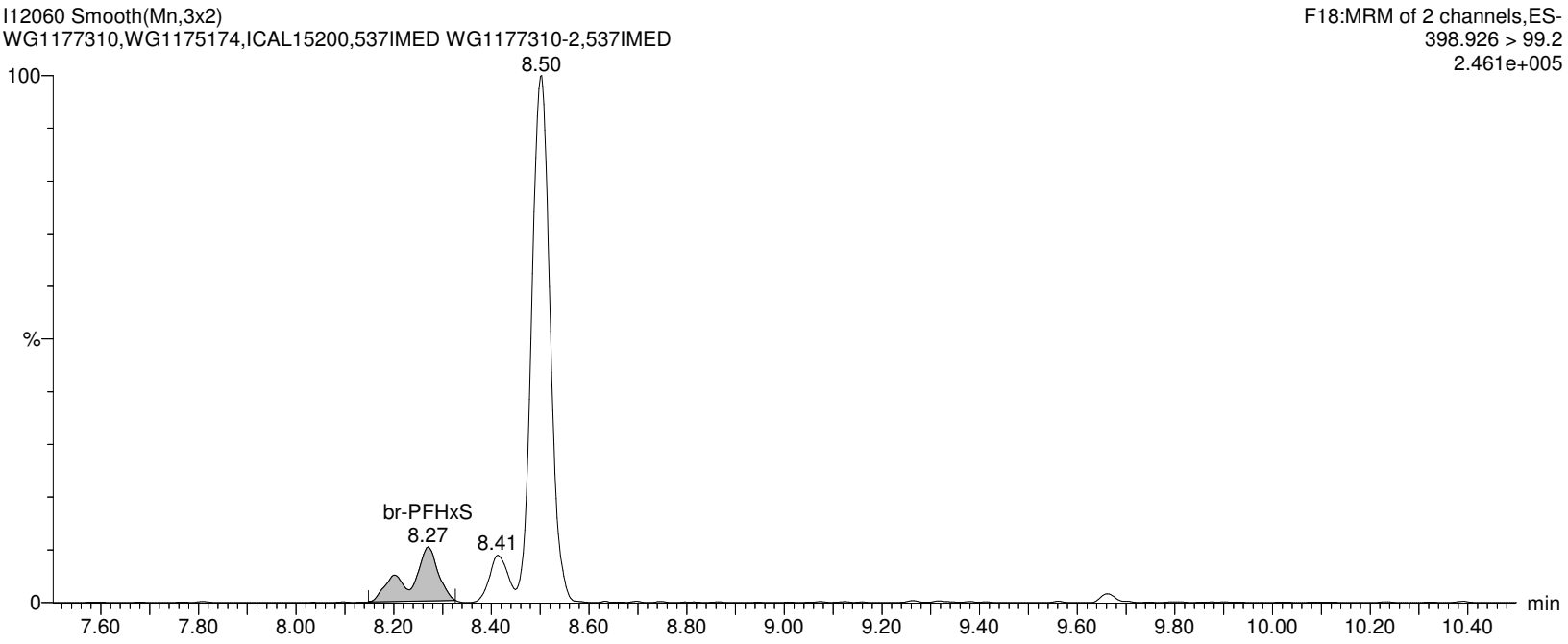

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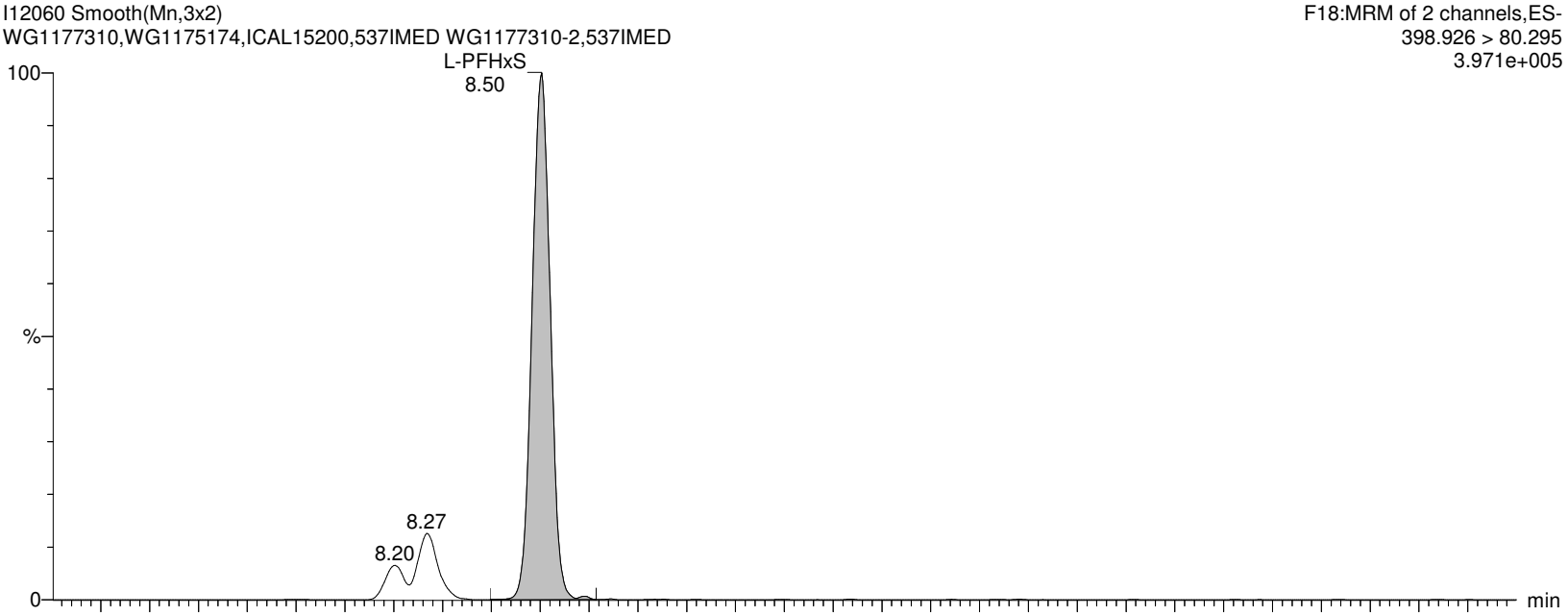

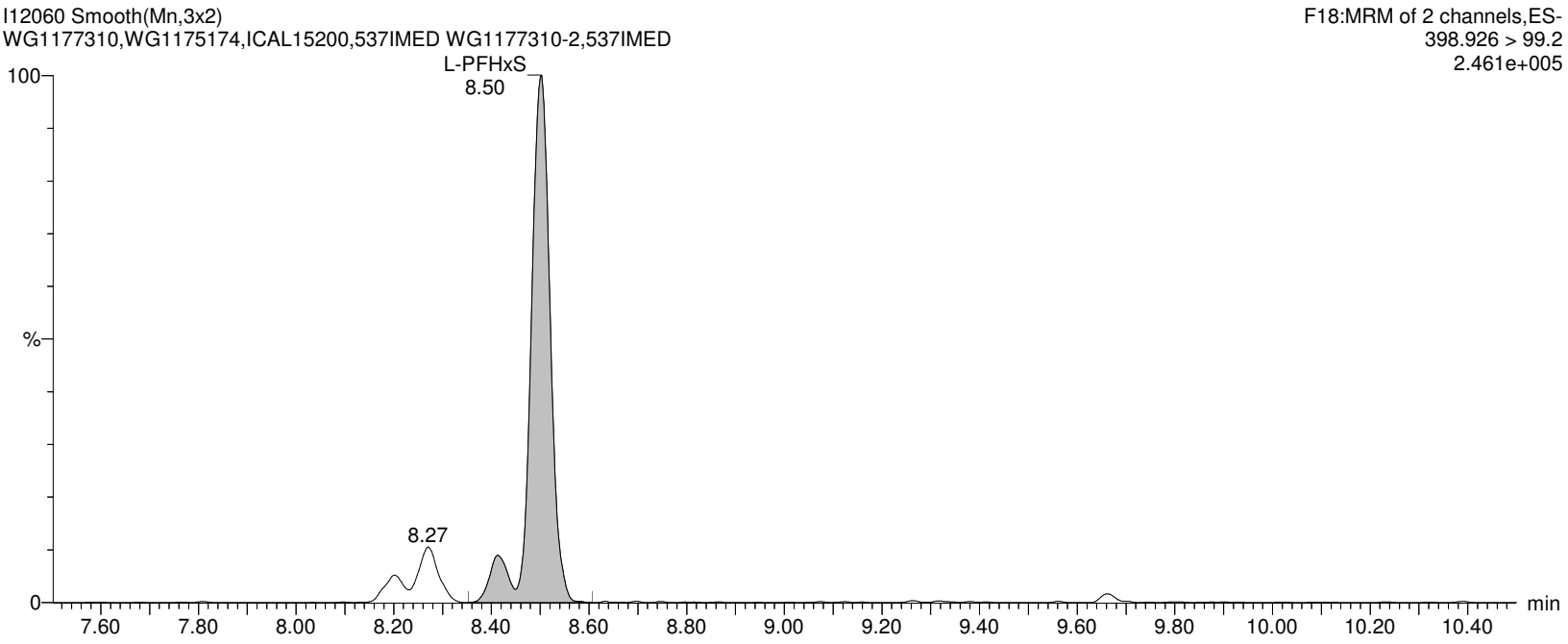

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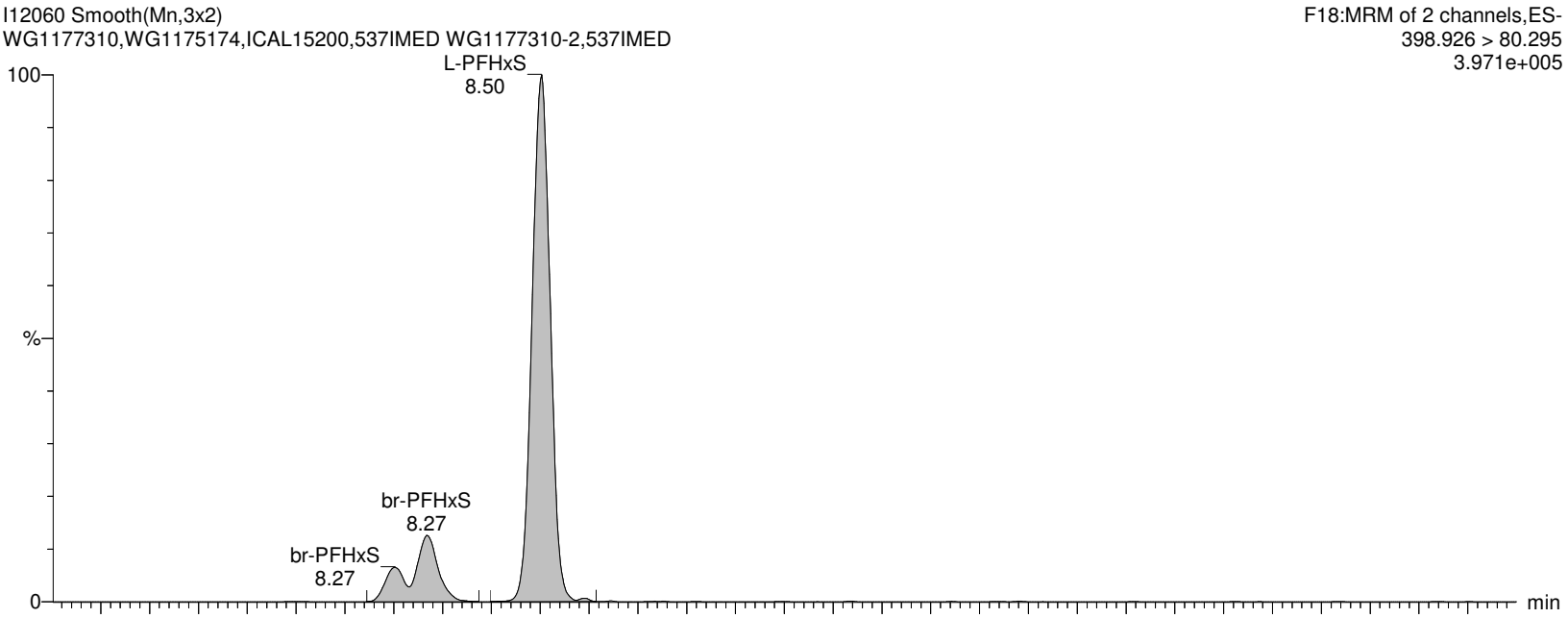

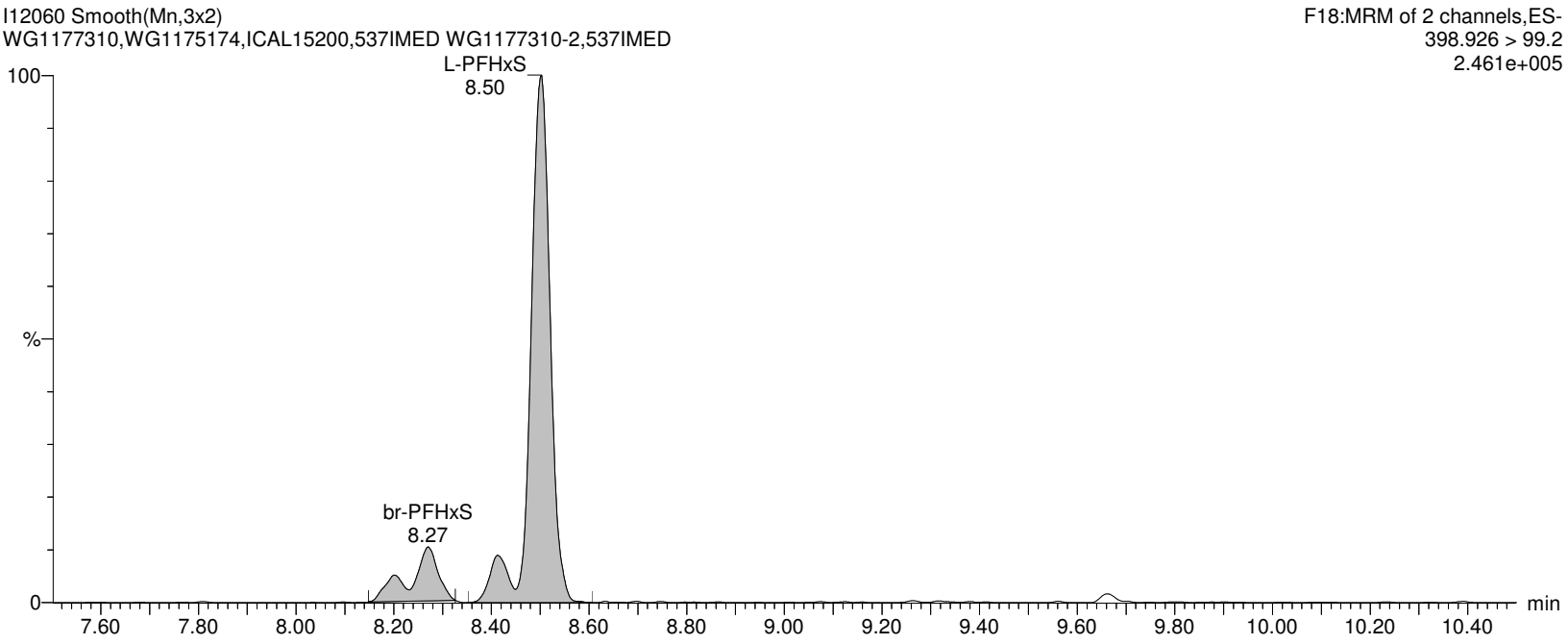

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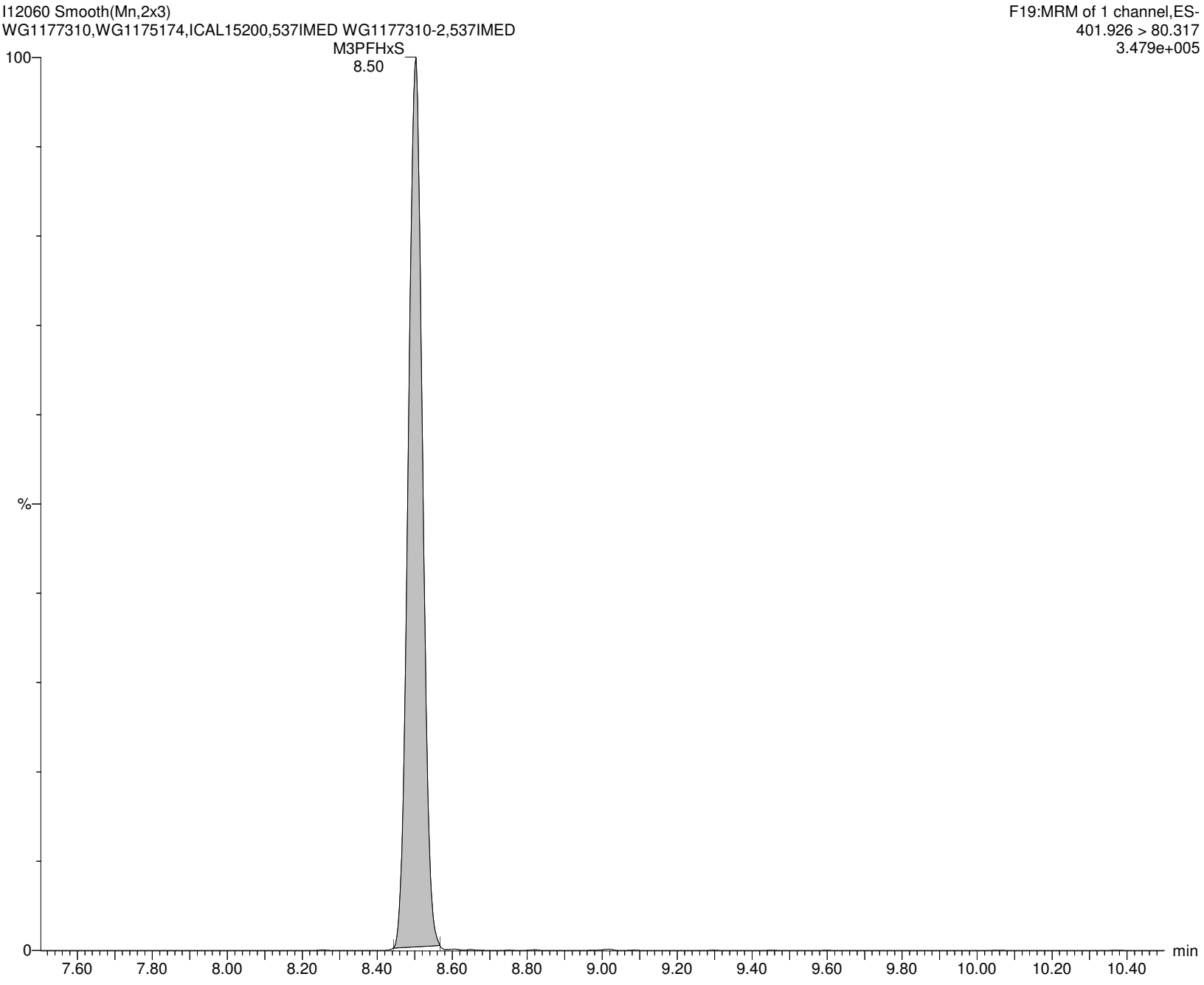

all concentration units in (ng/mL)

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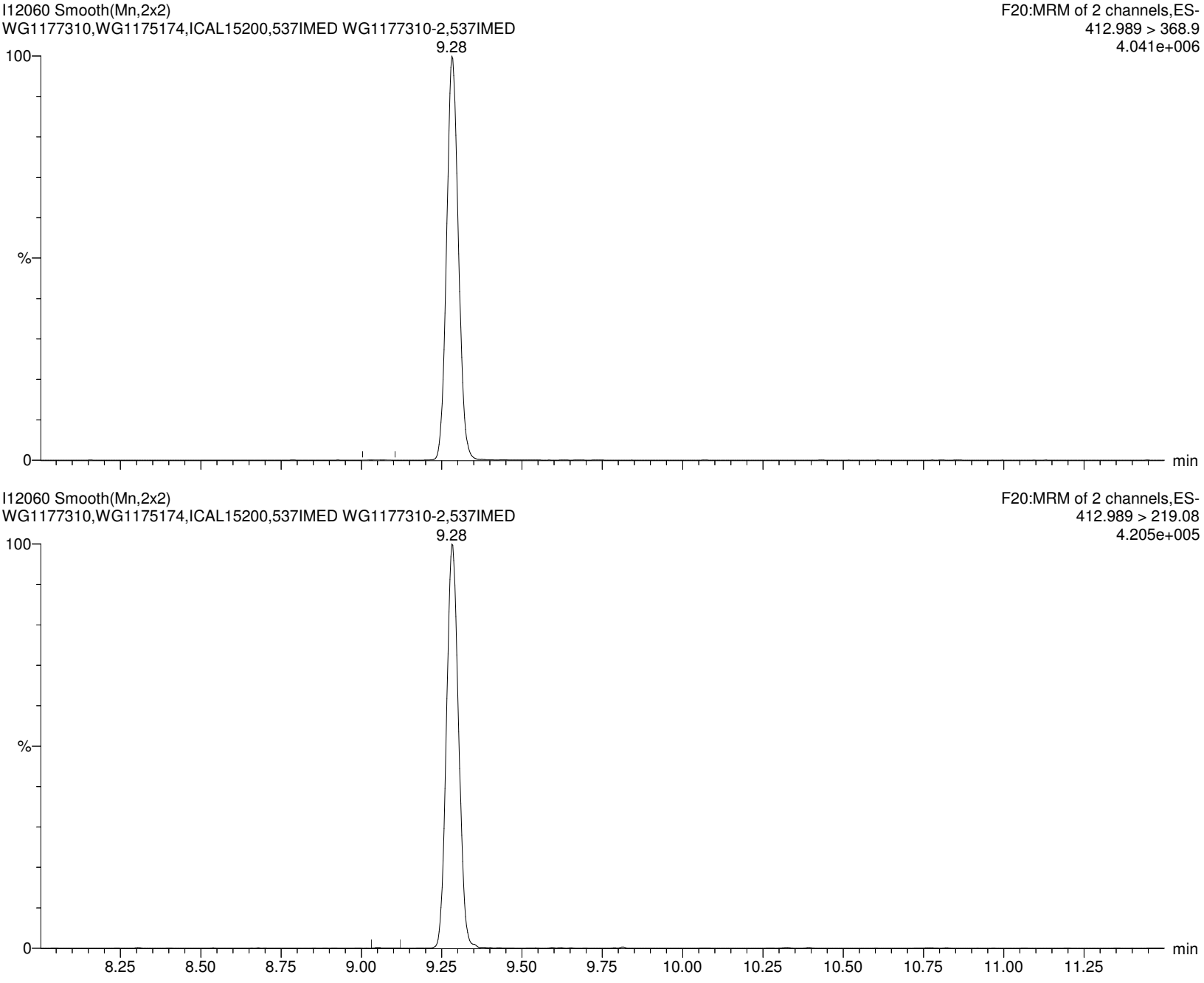

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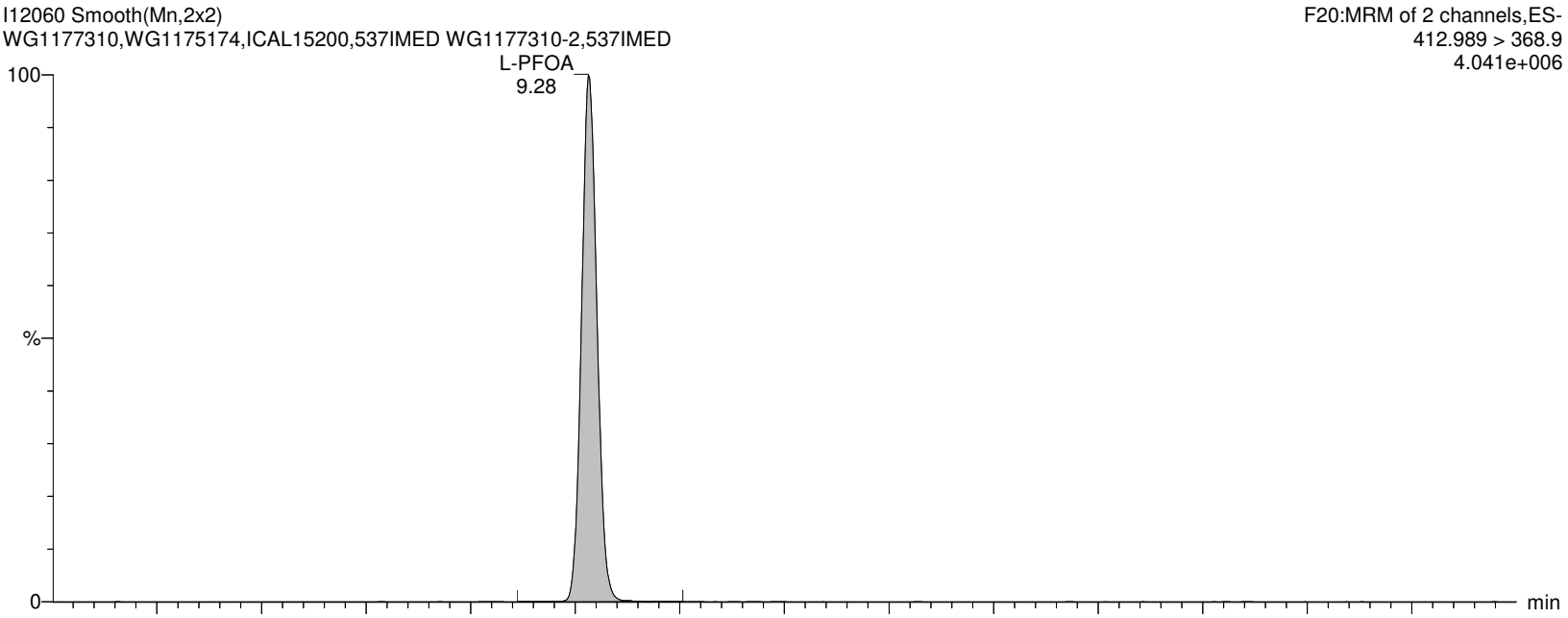

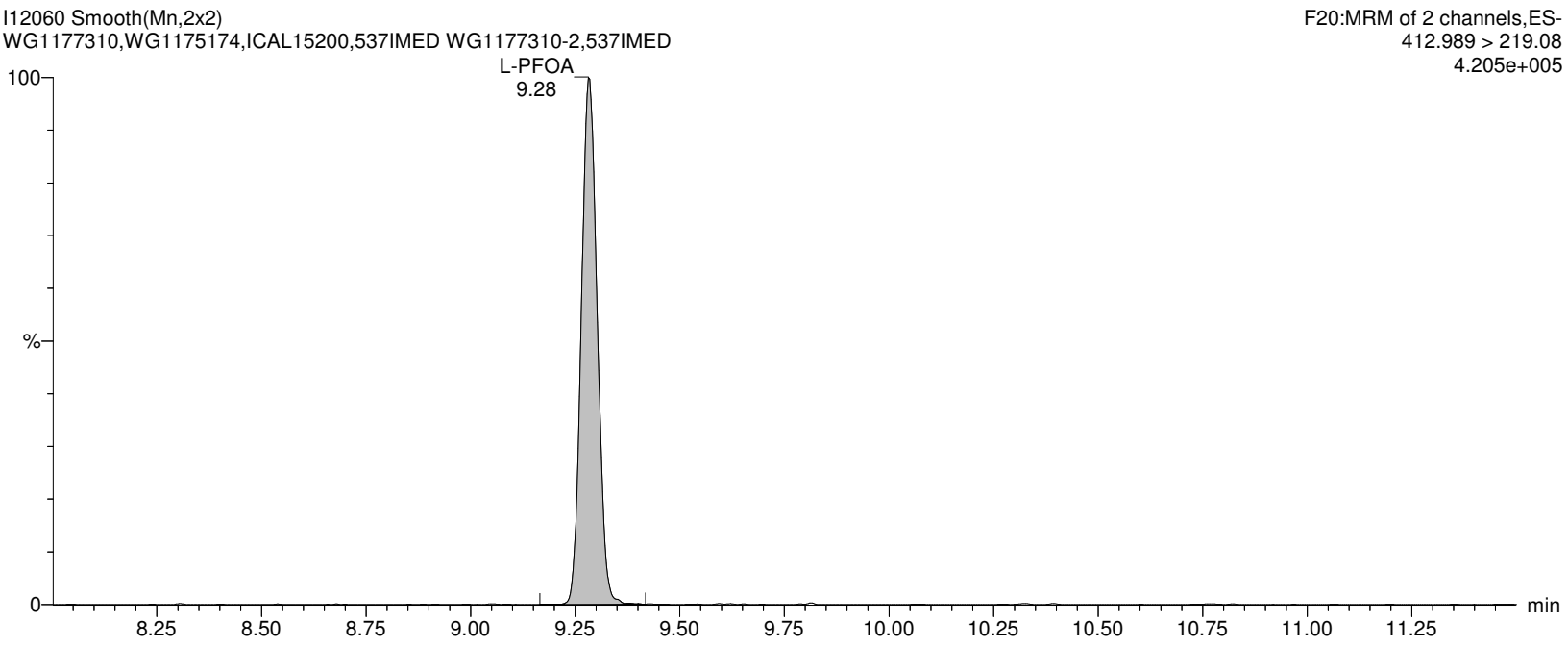

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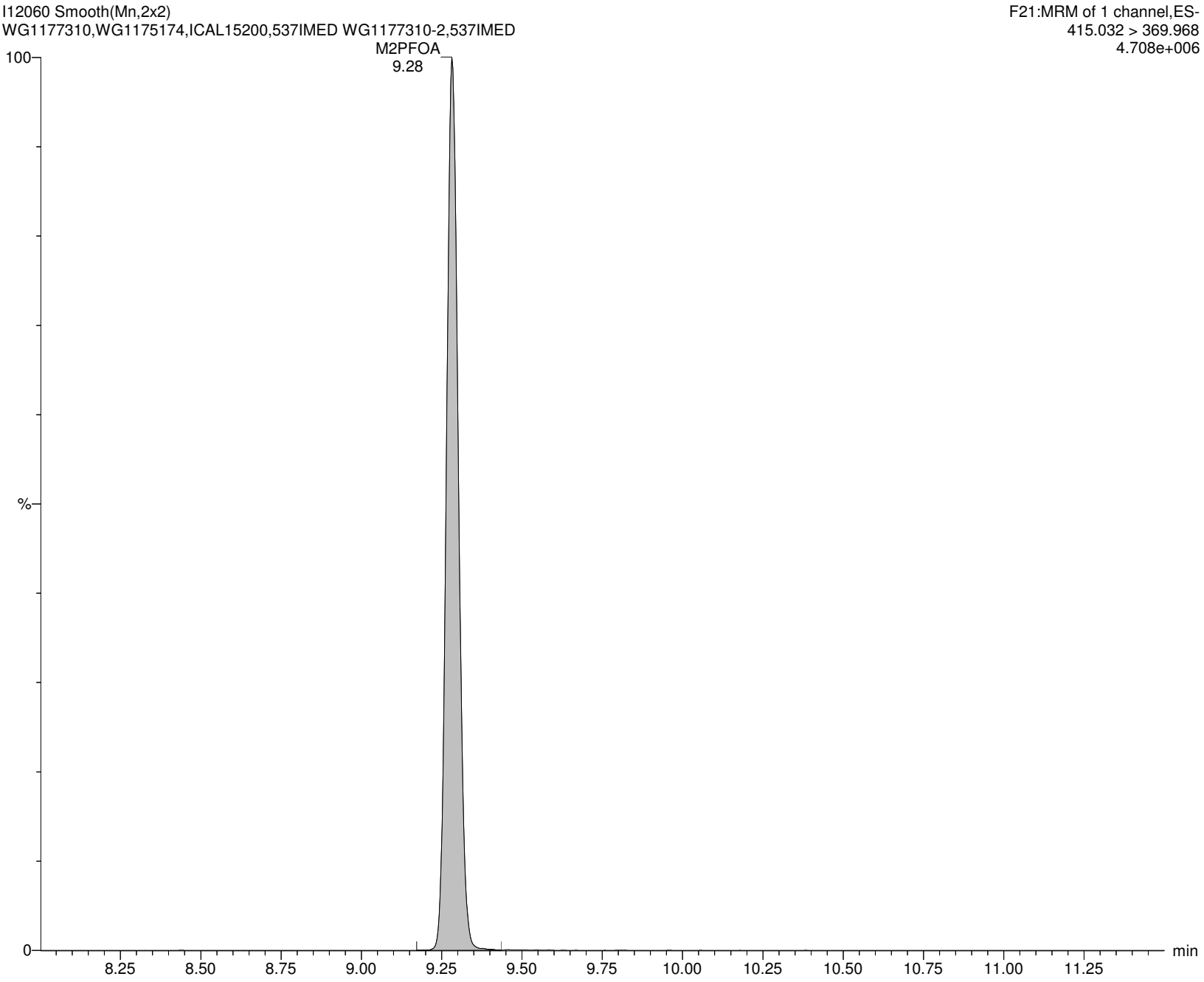

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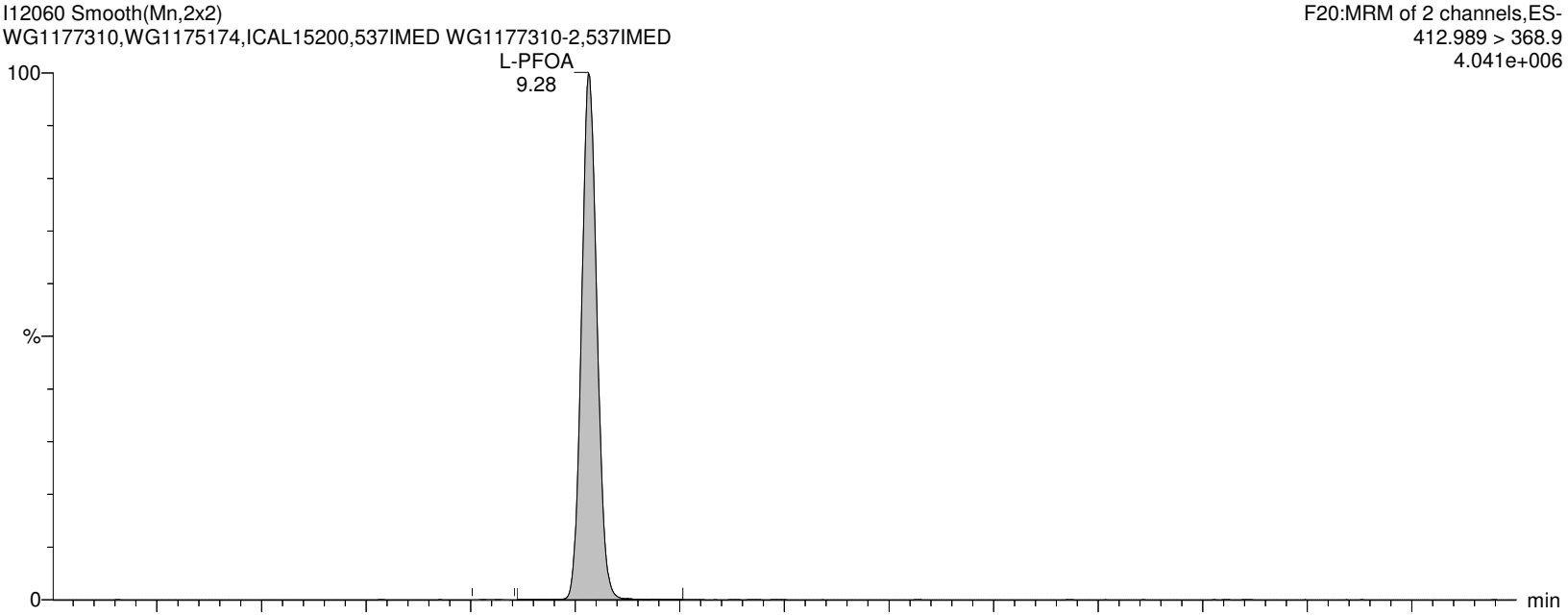

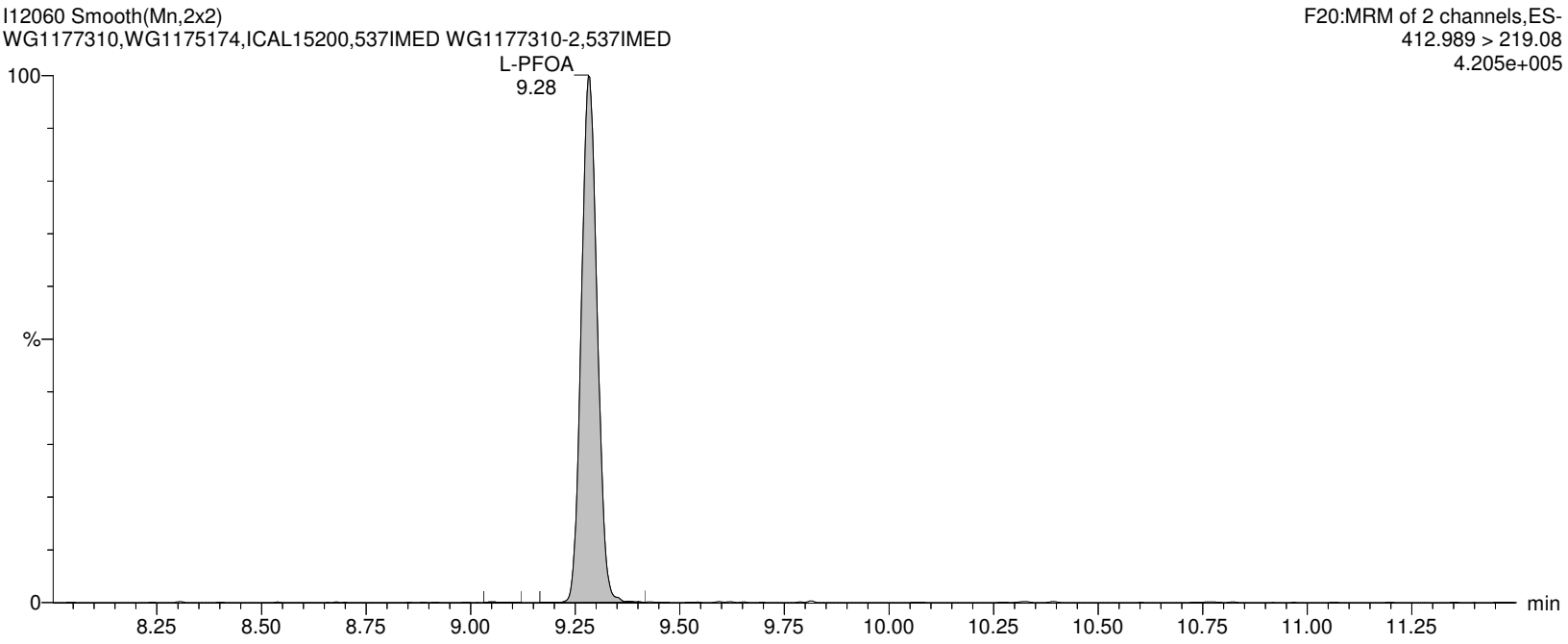

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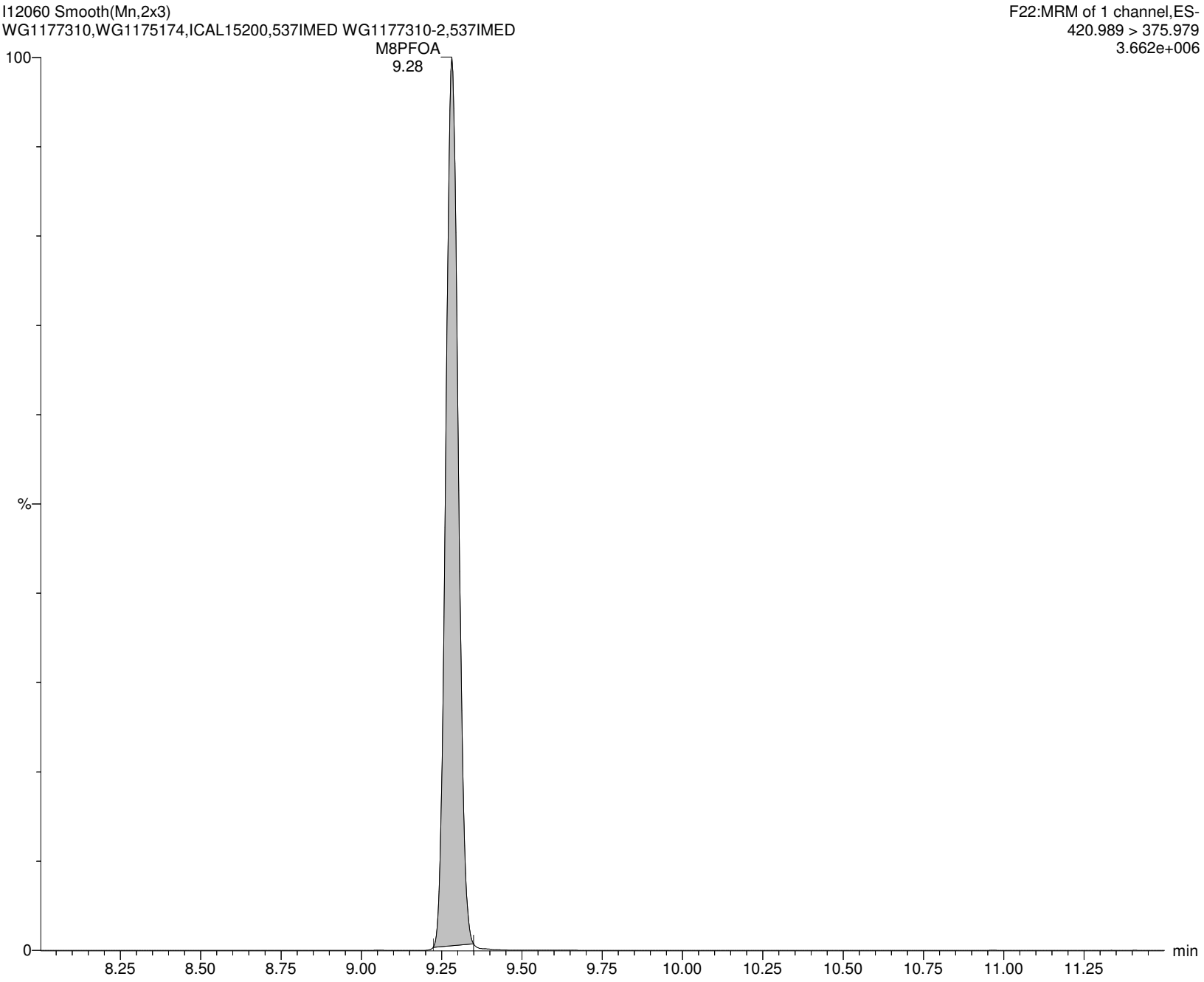

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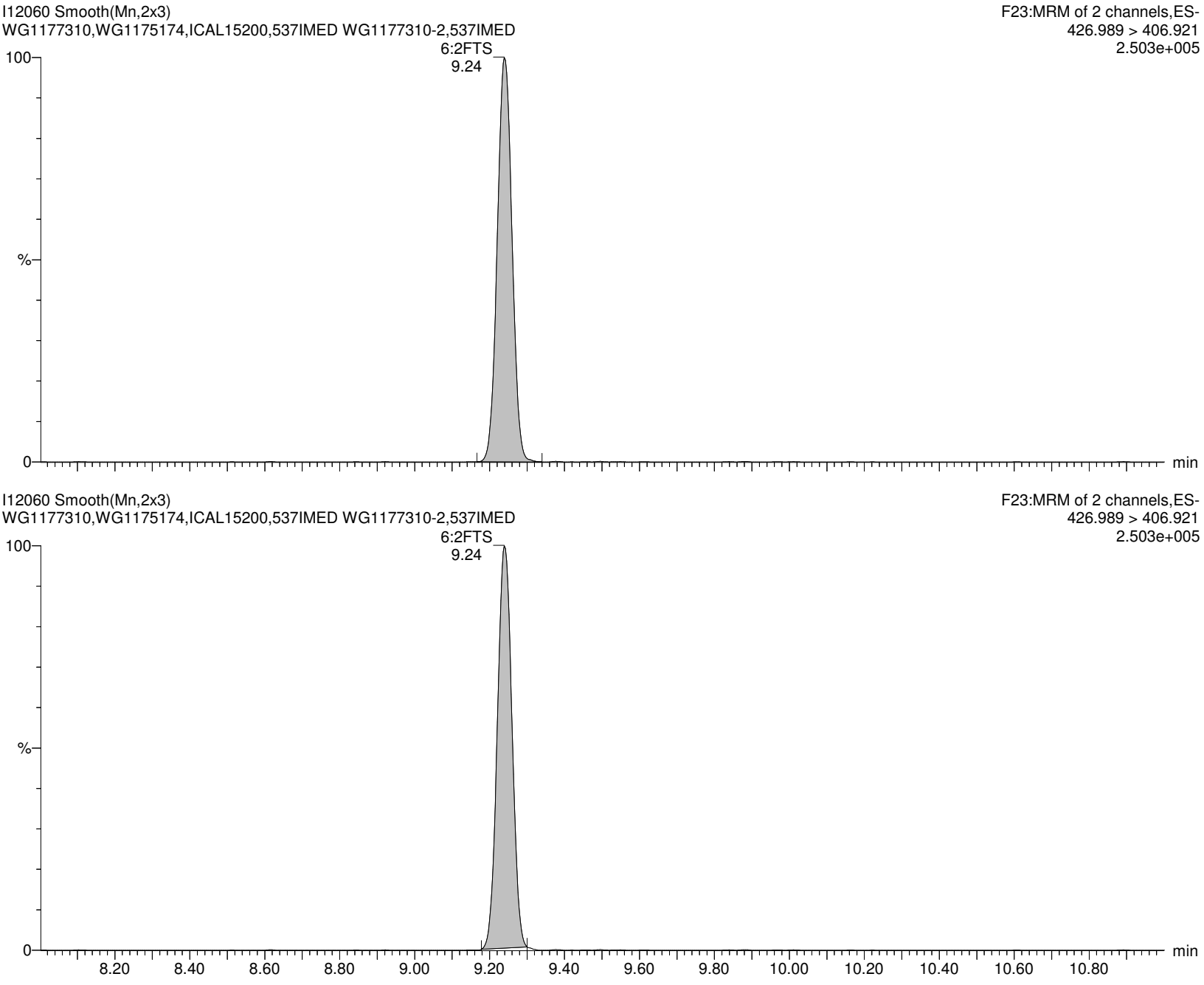
6:2FTS



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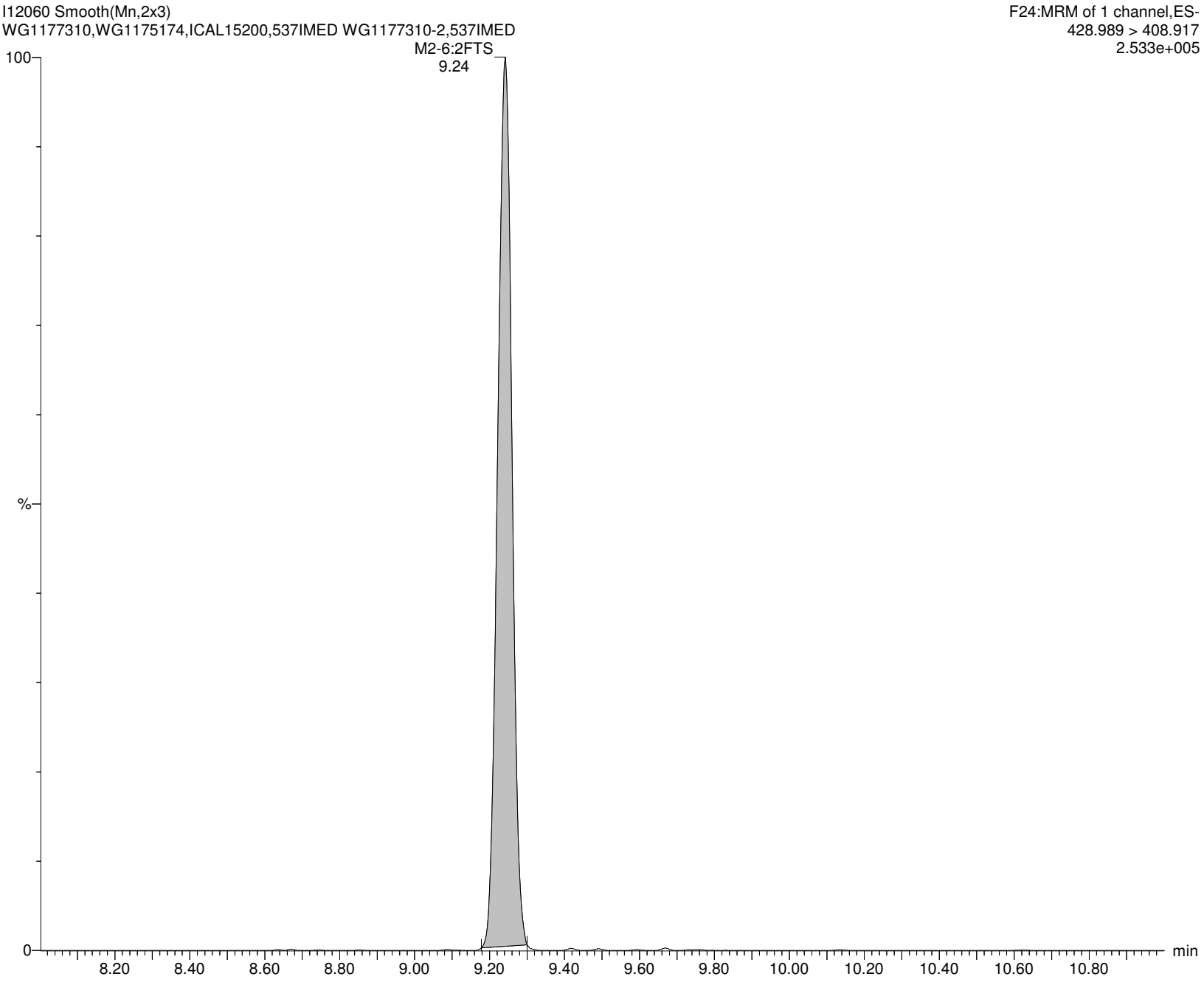

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Name: I12060
ID: WG1177310-2,537IMED
Date: 08-Nov-2018
Time: 13:12:24
Description: WG1177310,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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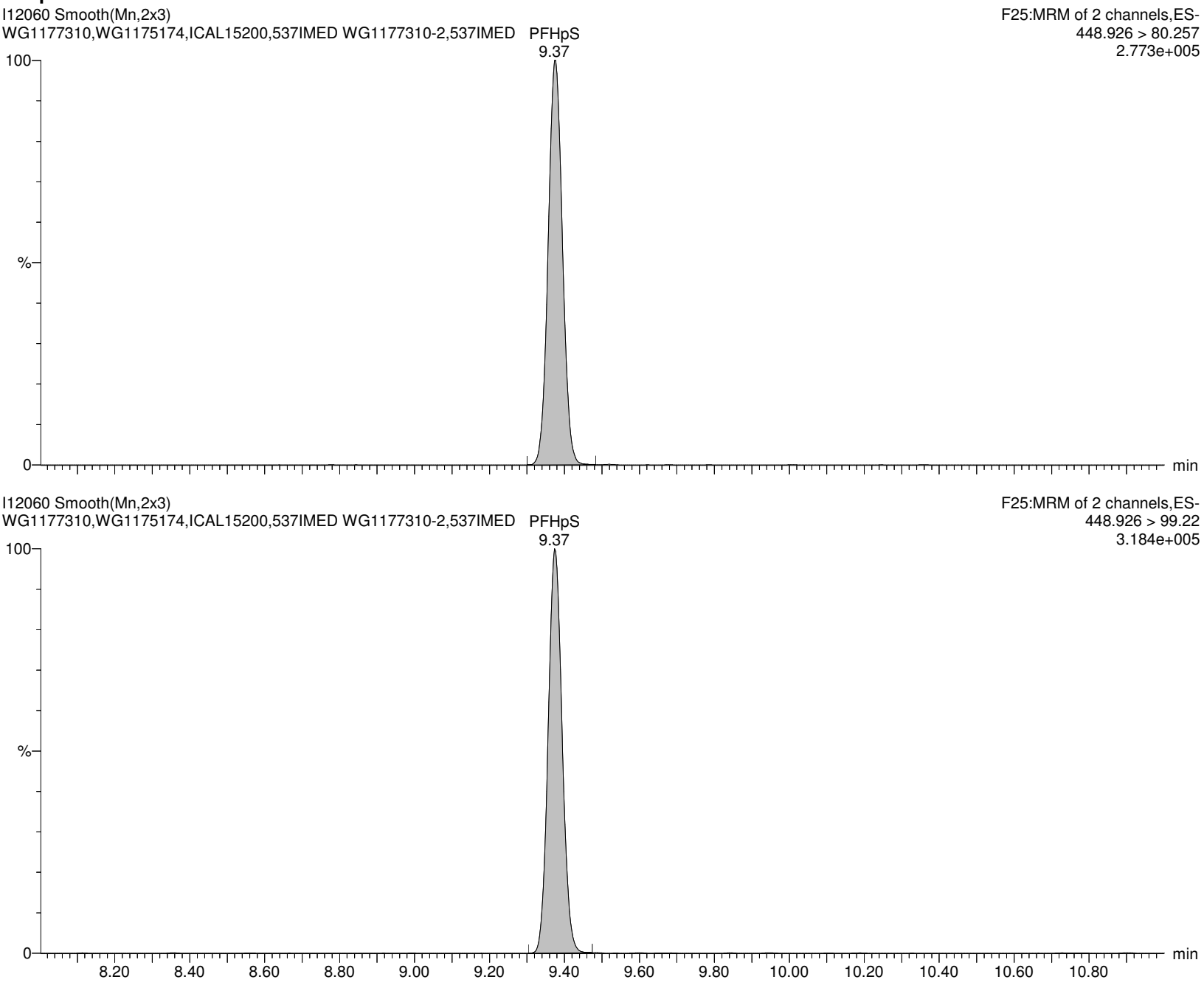

all concentration units in (ng/mL)

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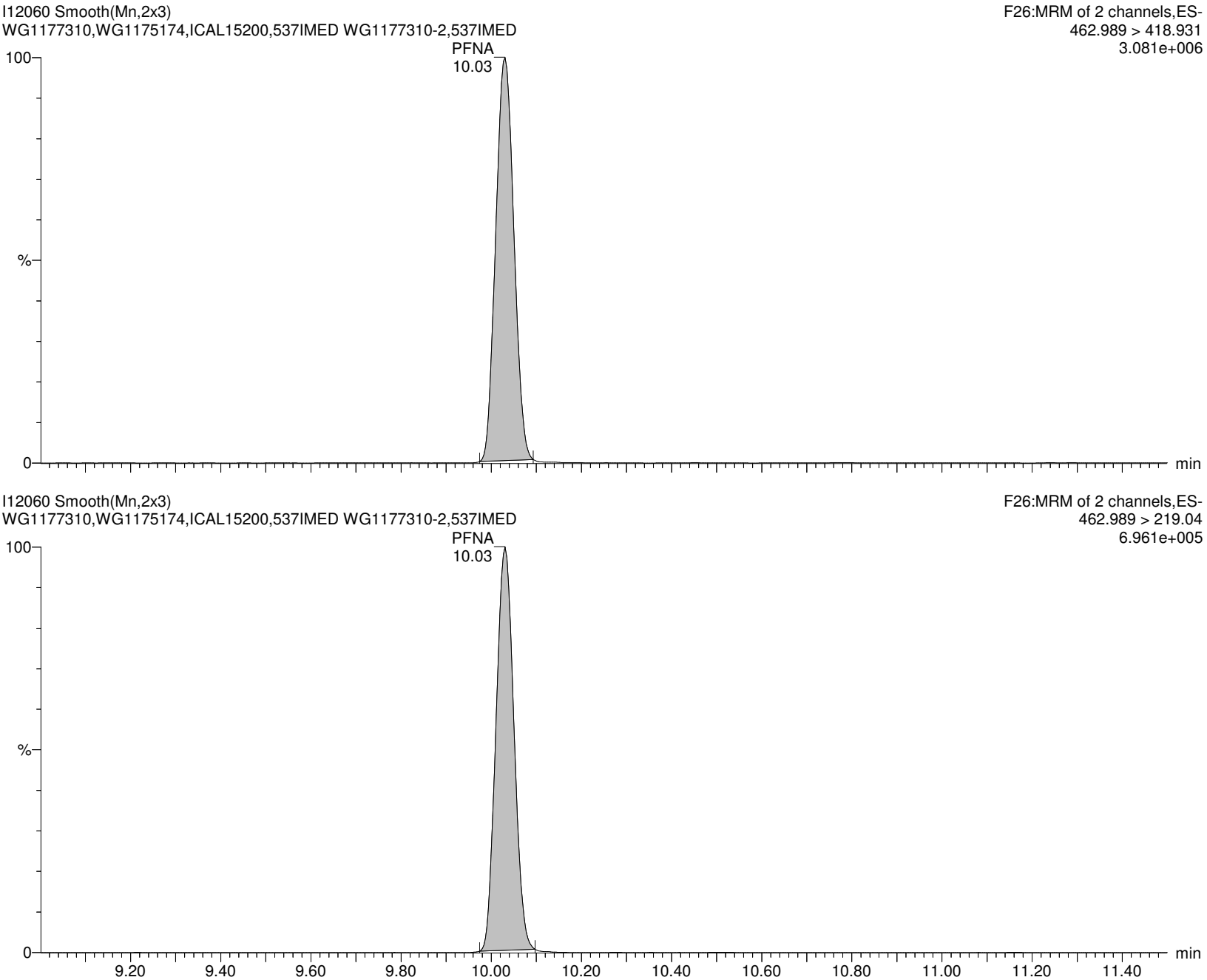

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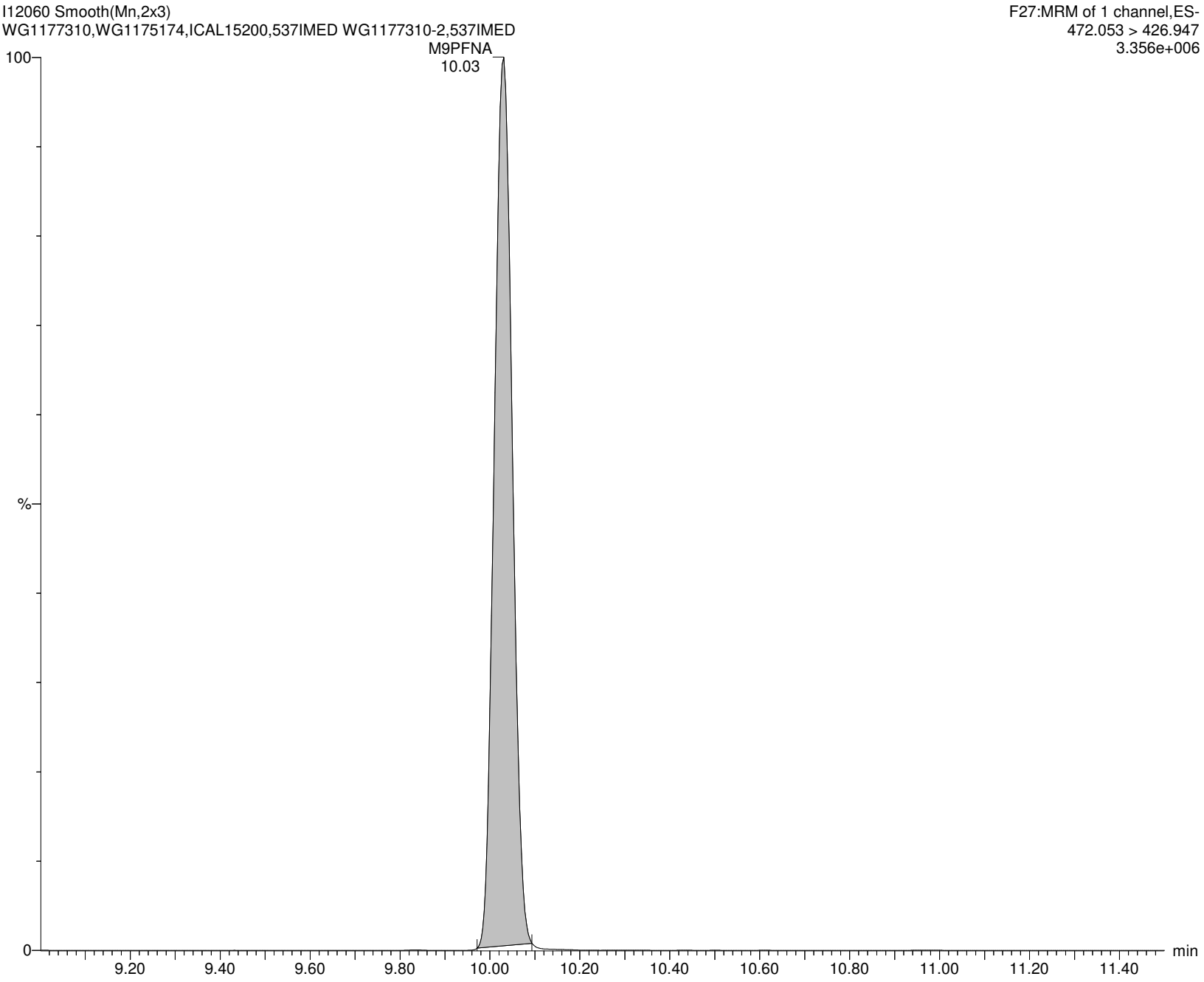

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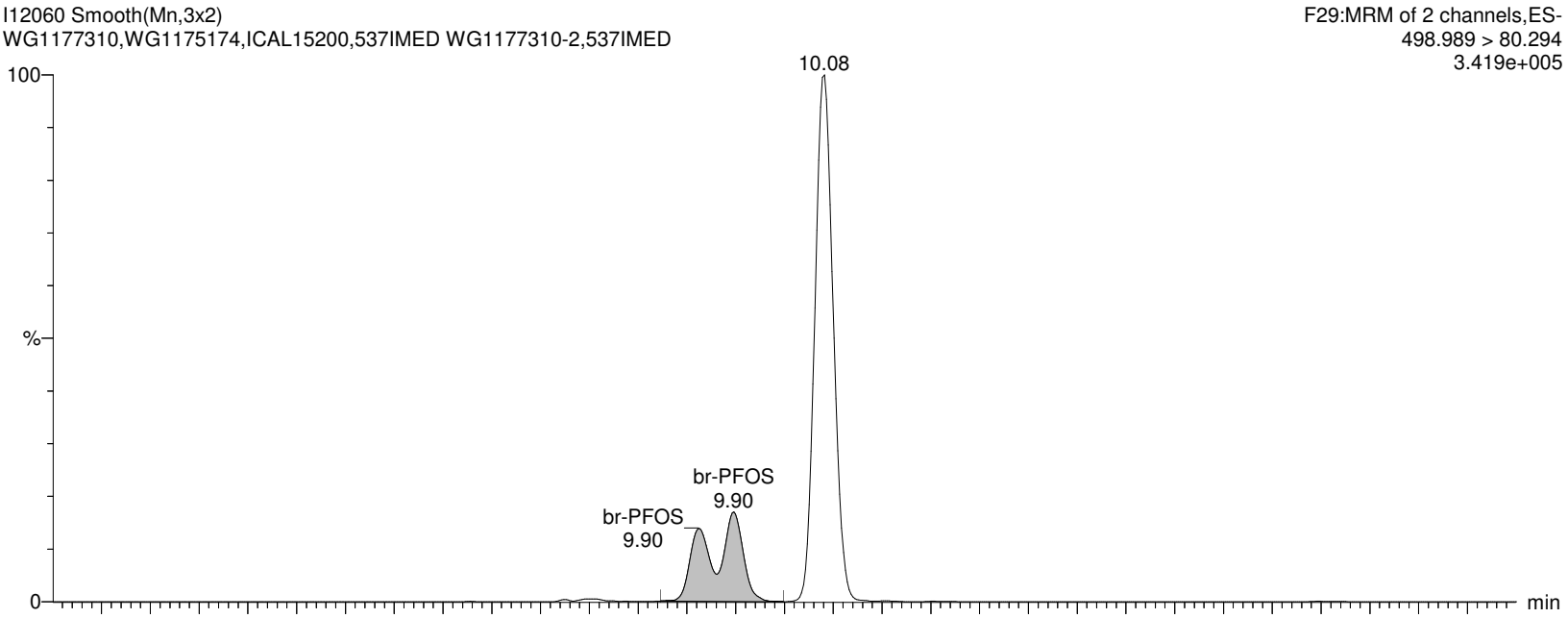

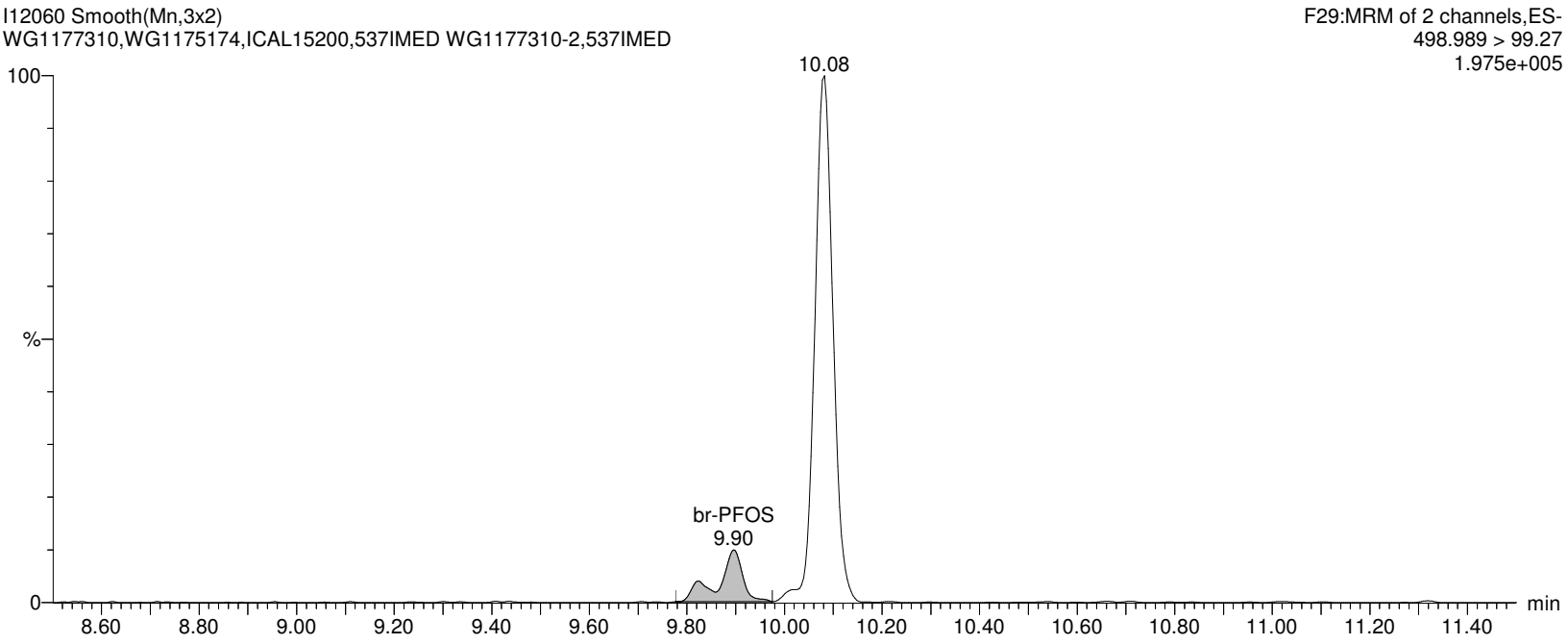

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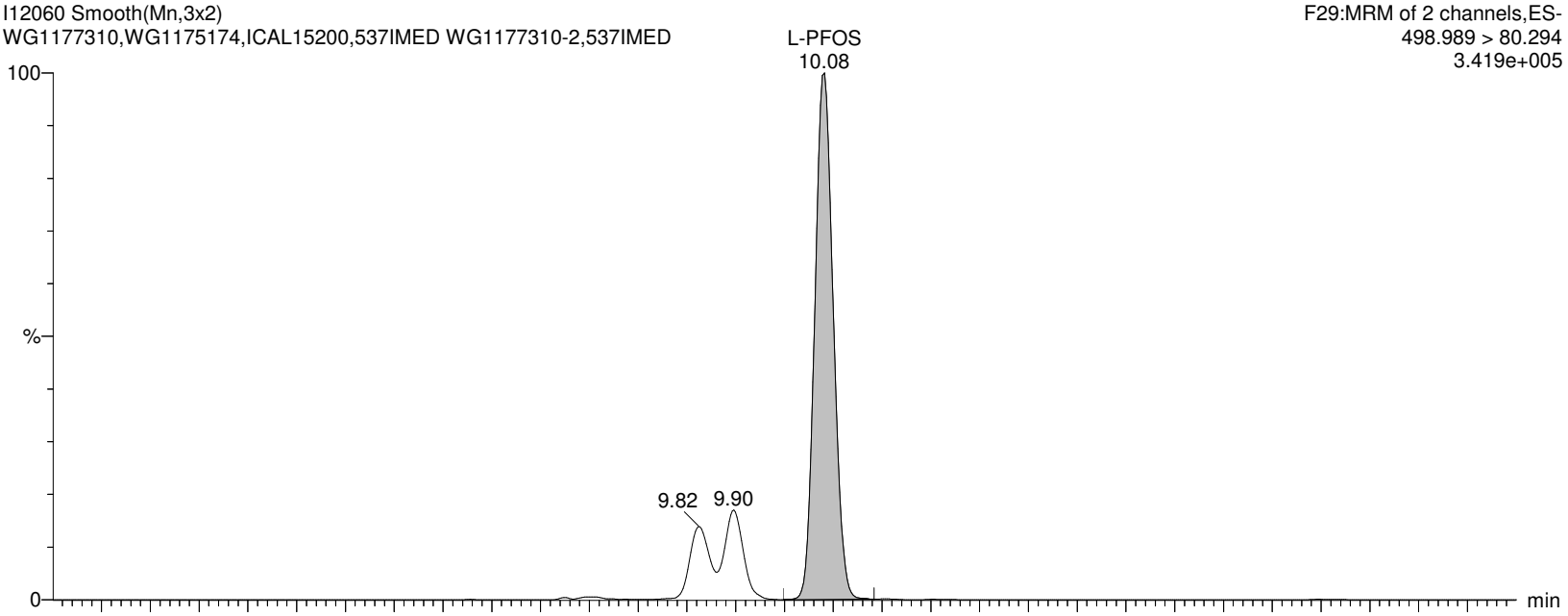

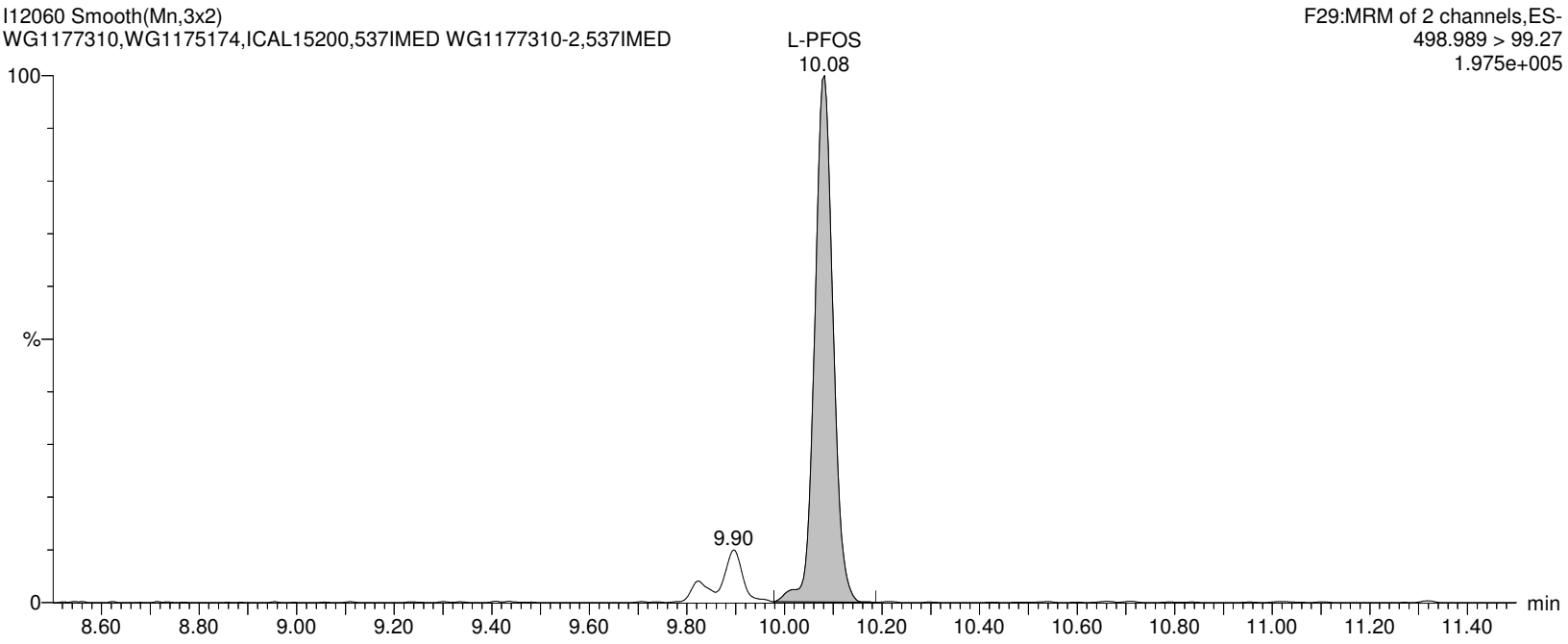

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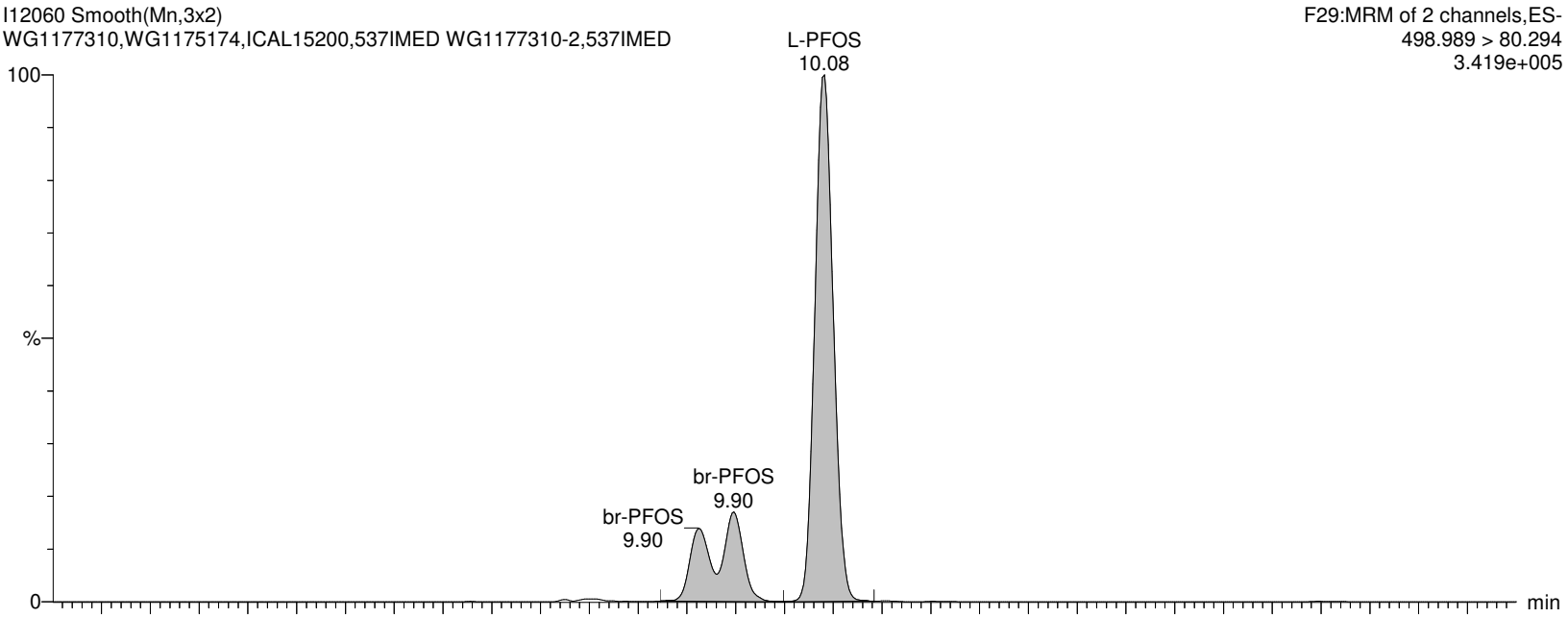

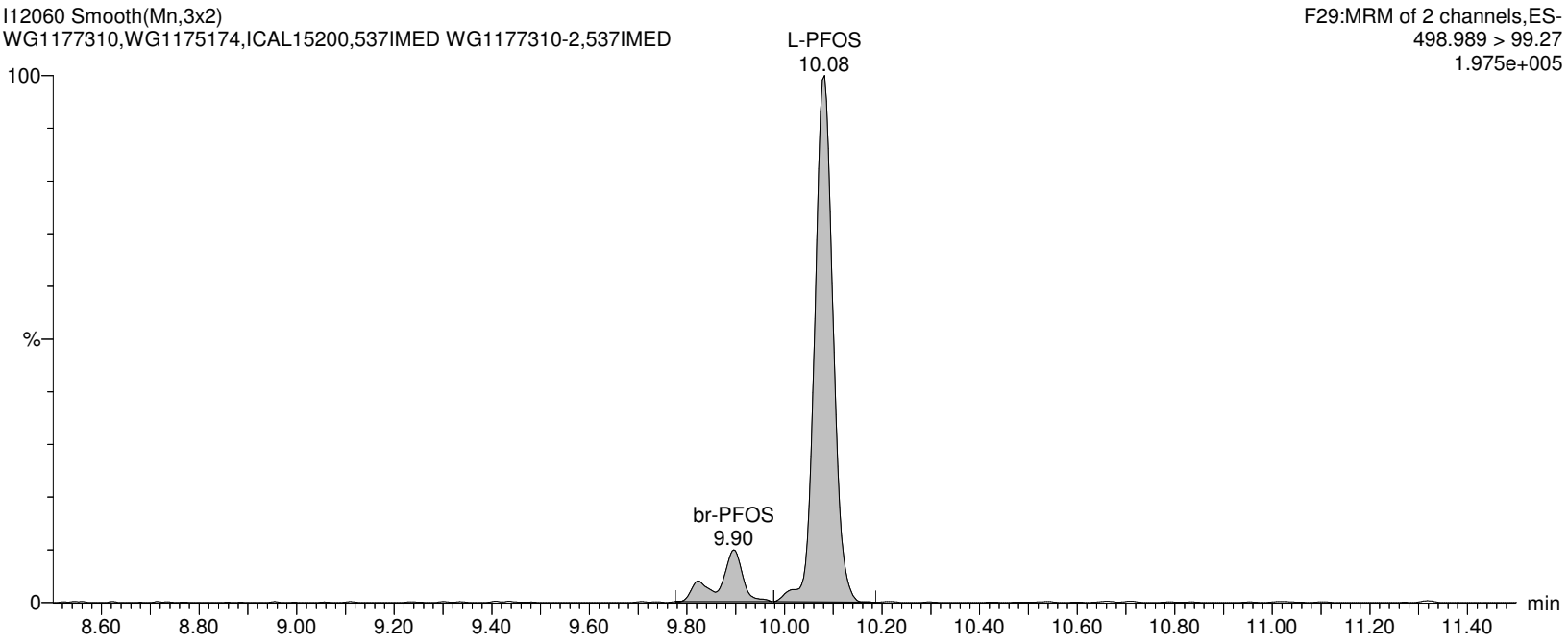

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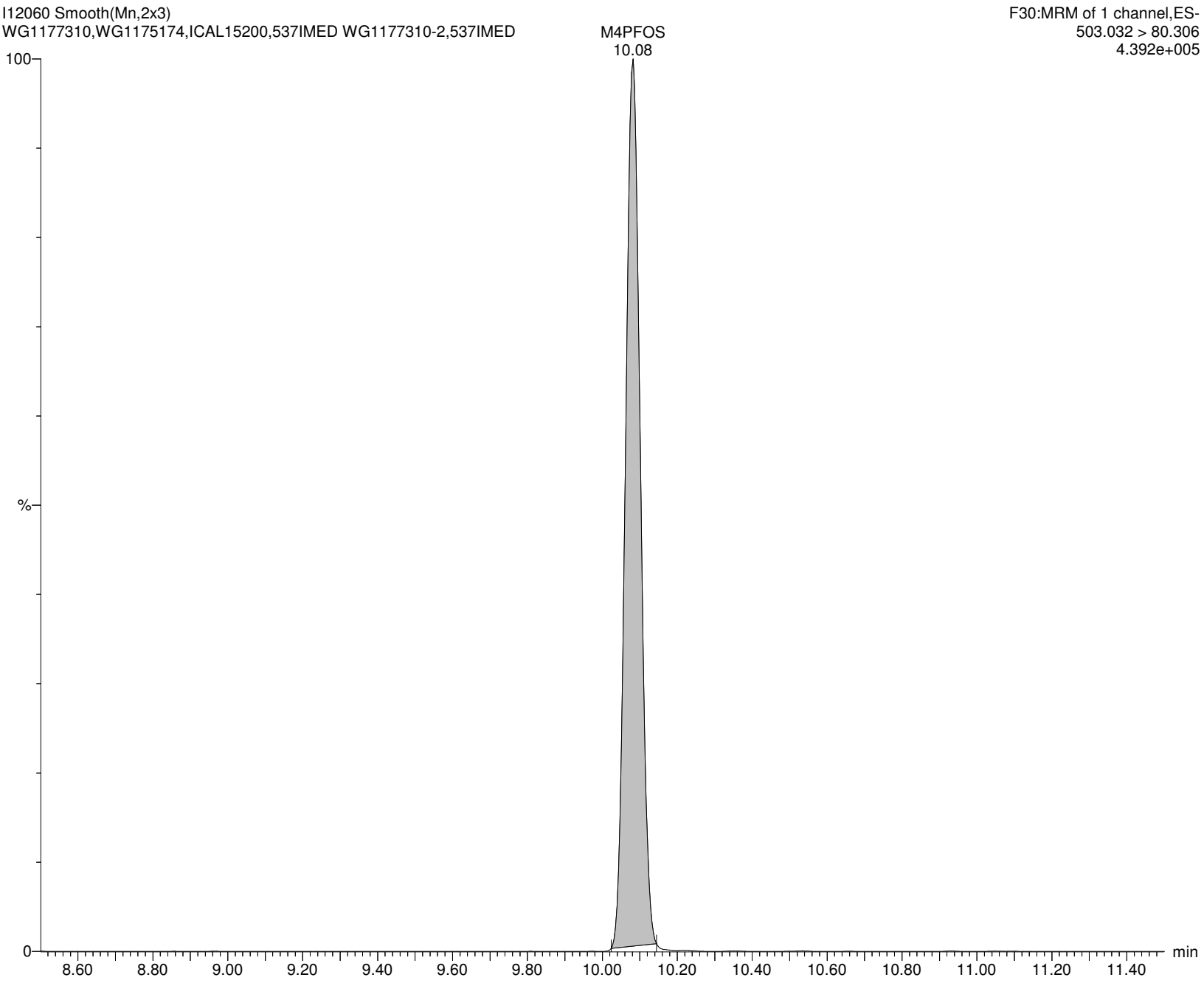

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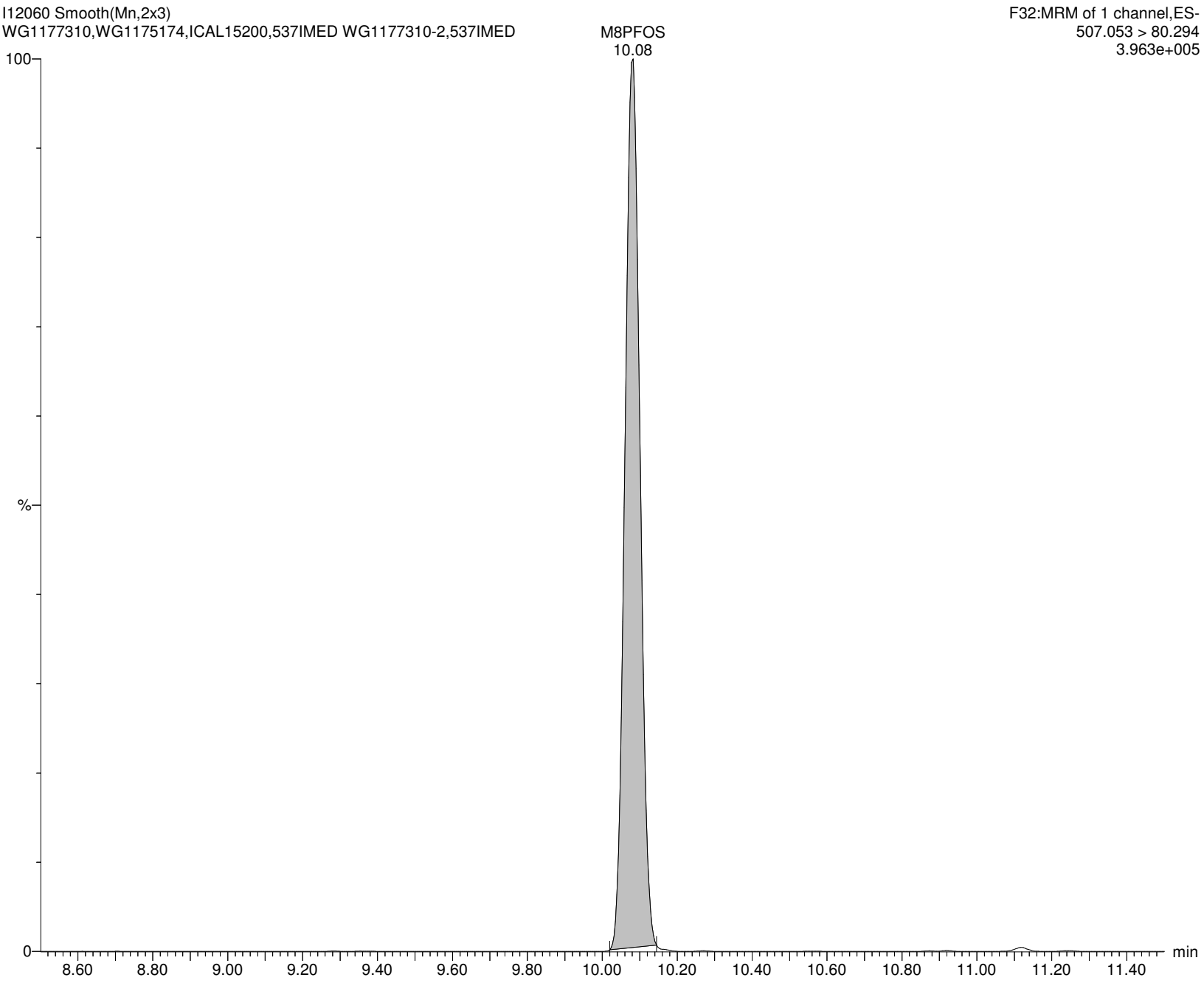

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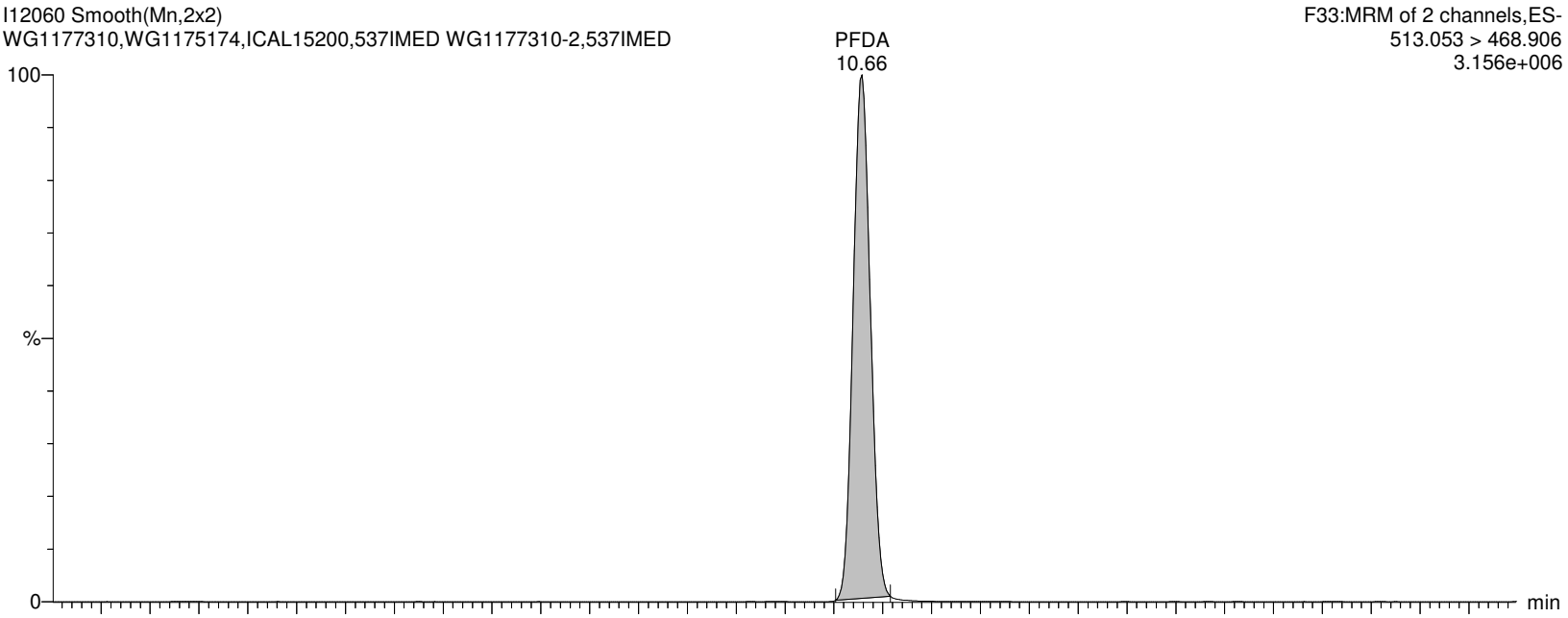

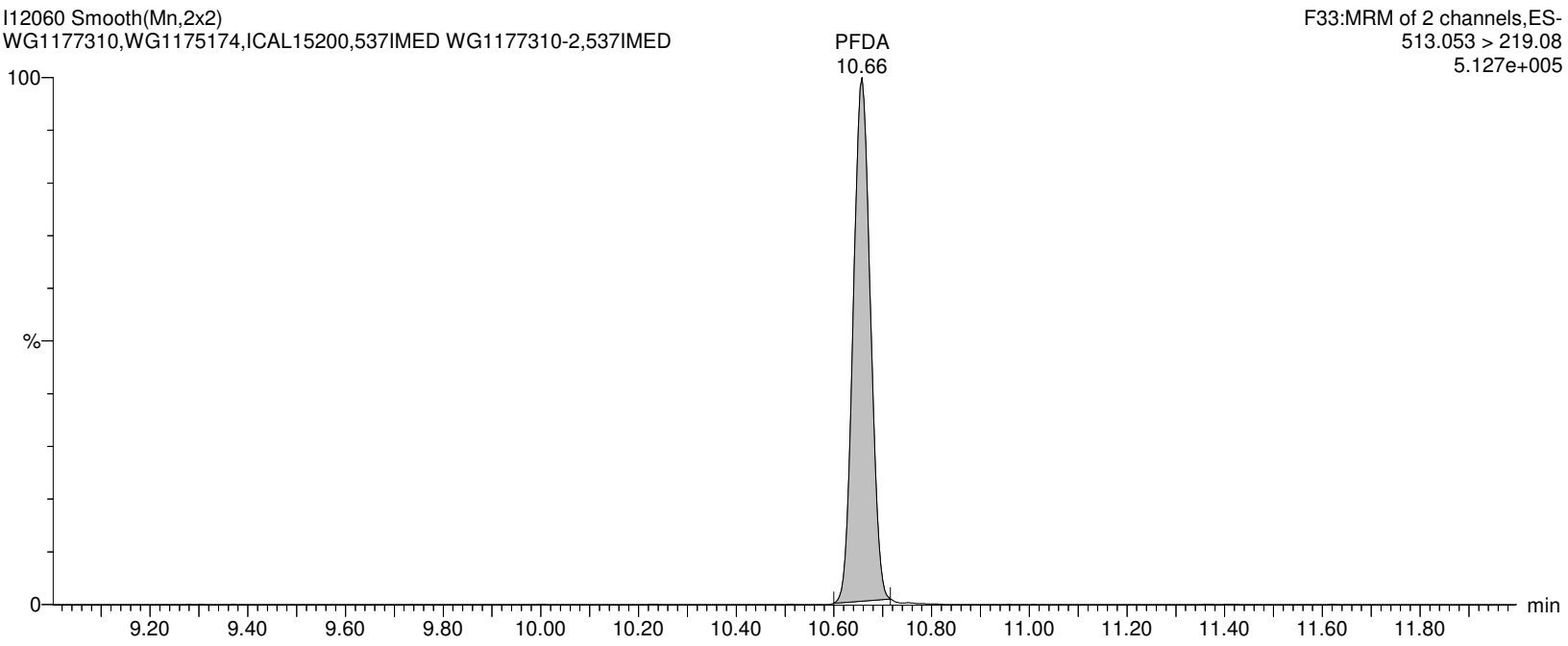

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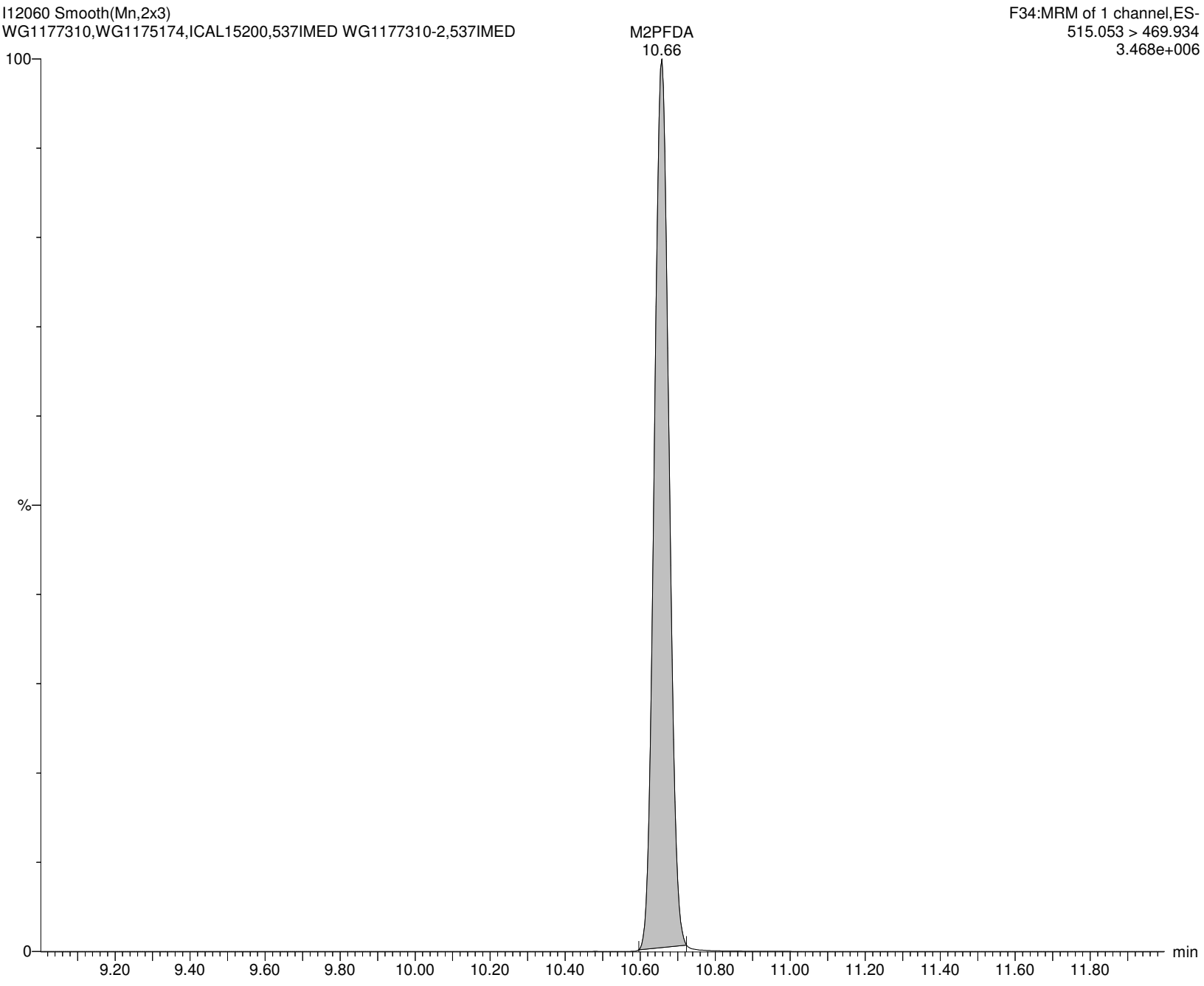

all concentration units in (ng/mL)

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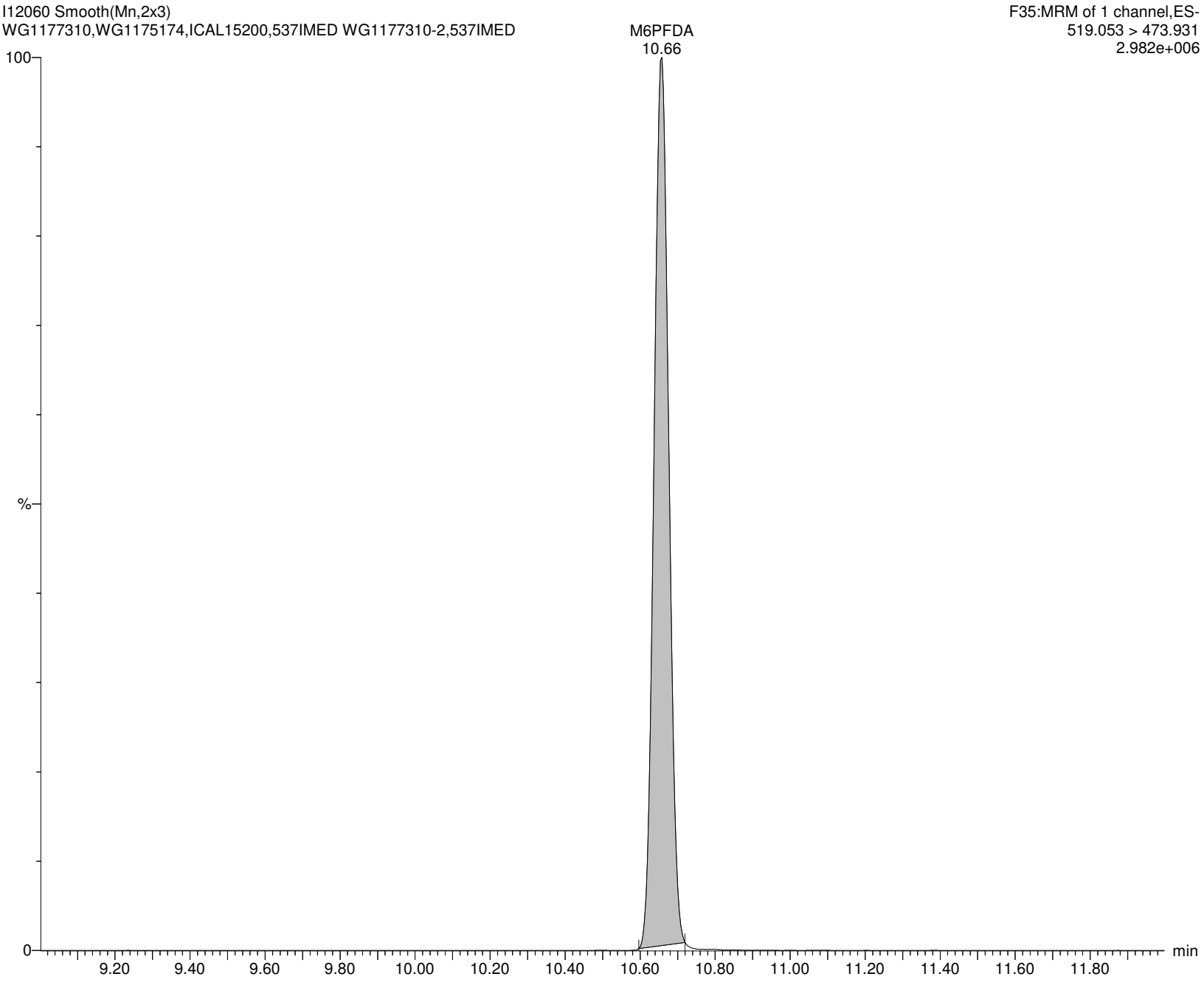

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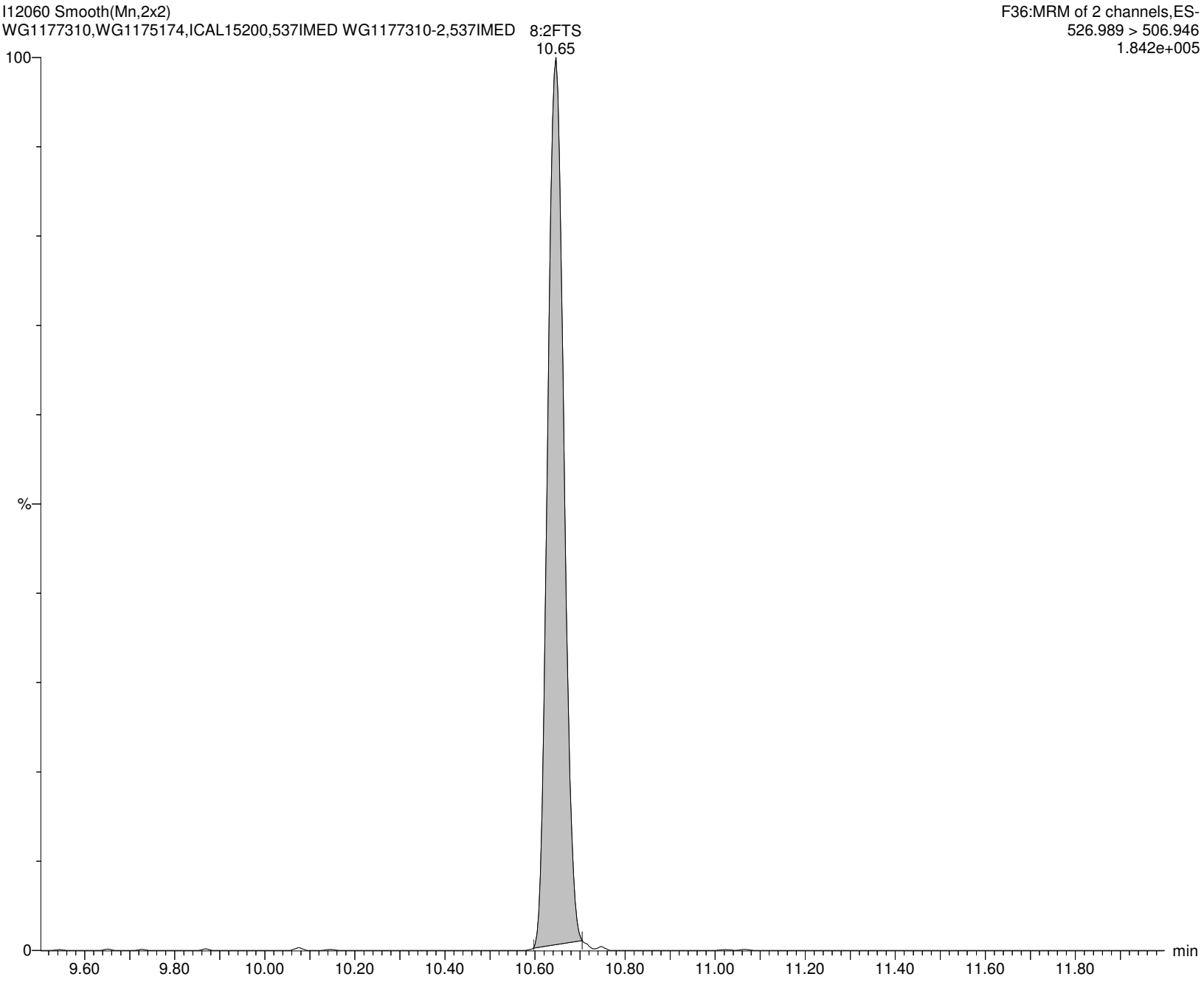

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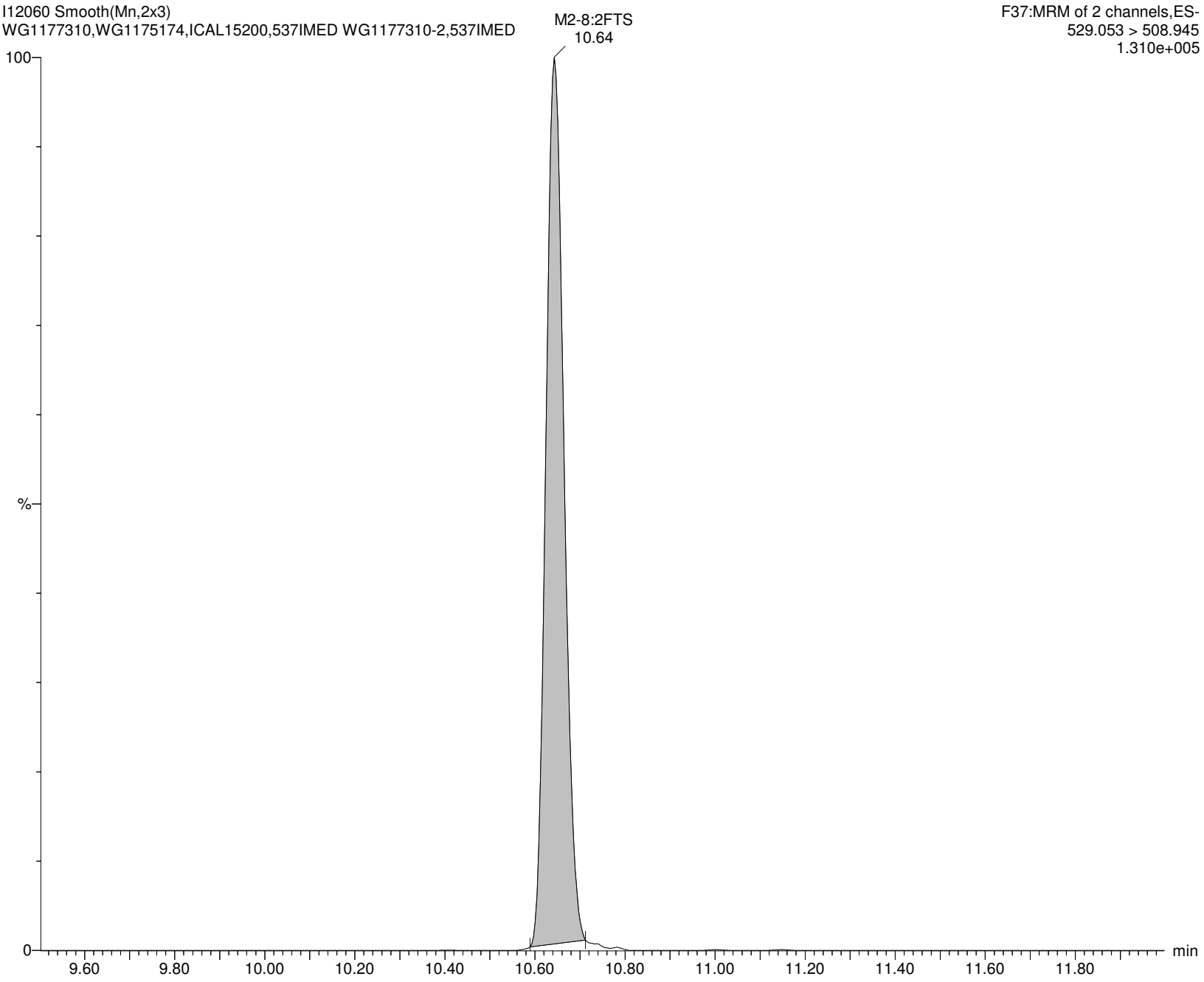

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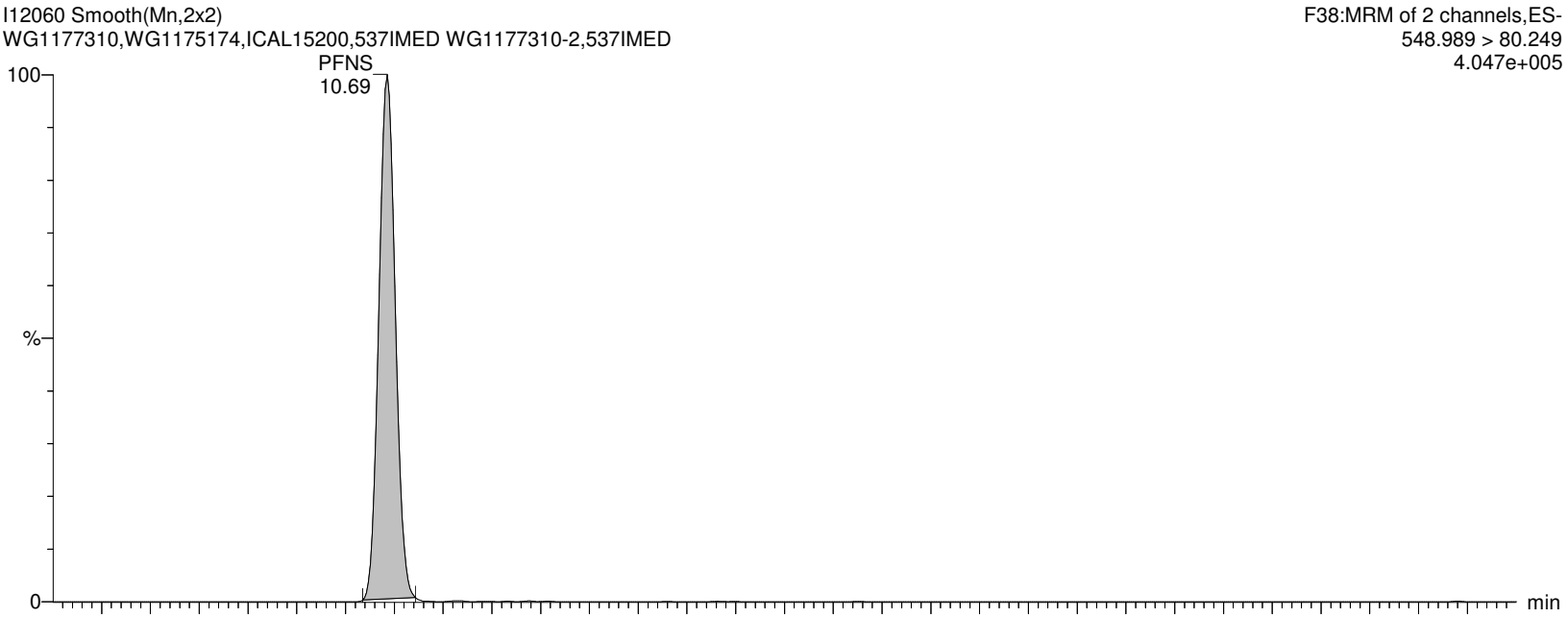

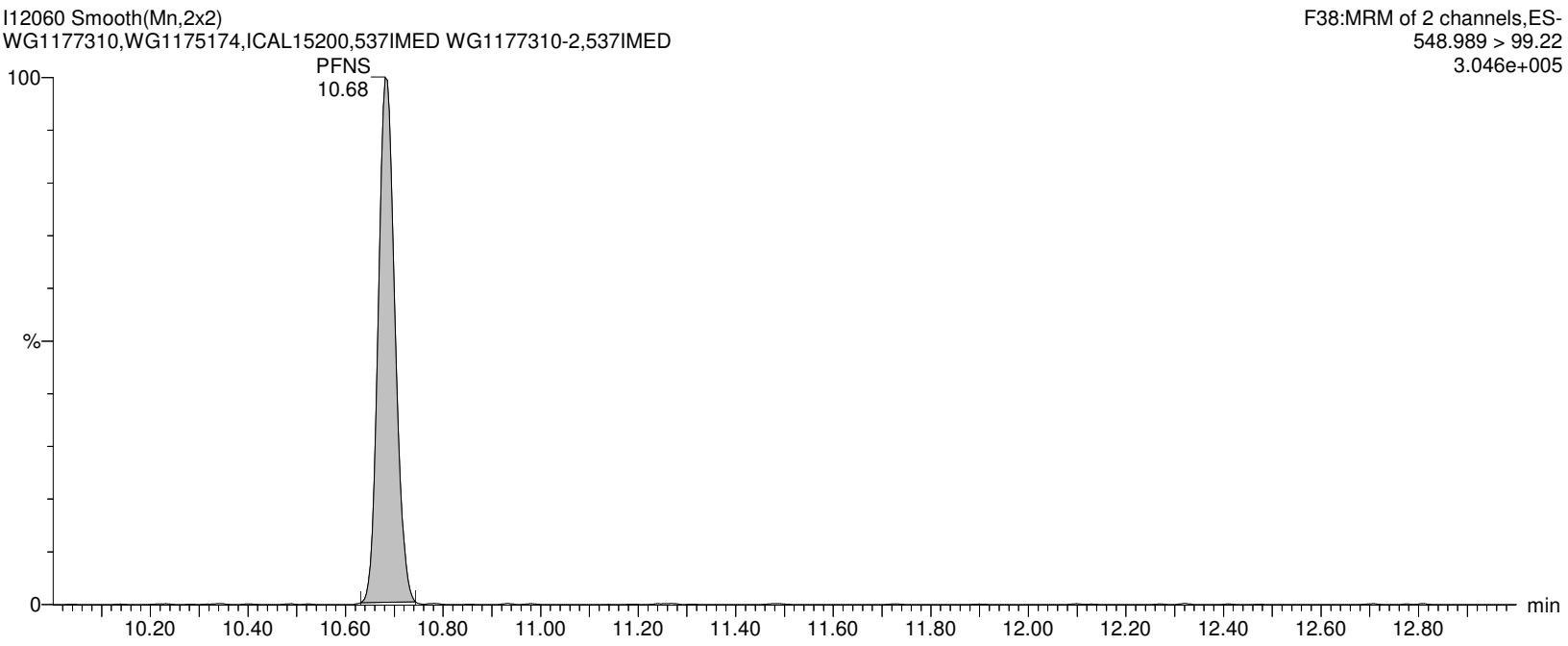

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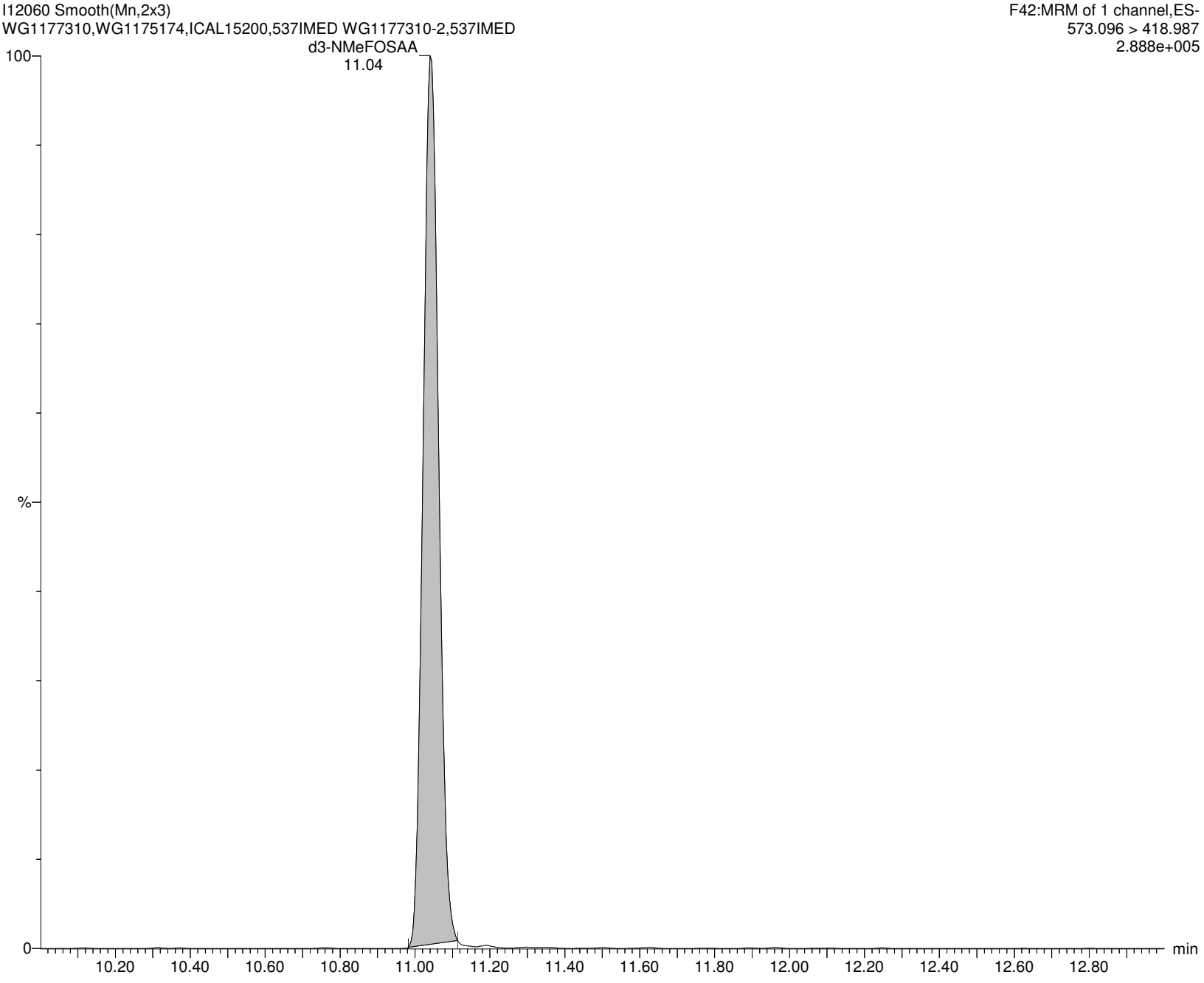

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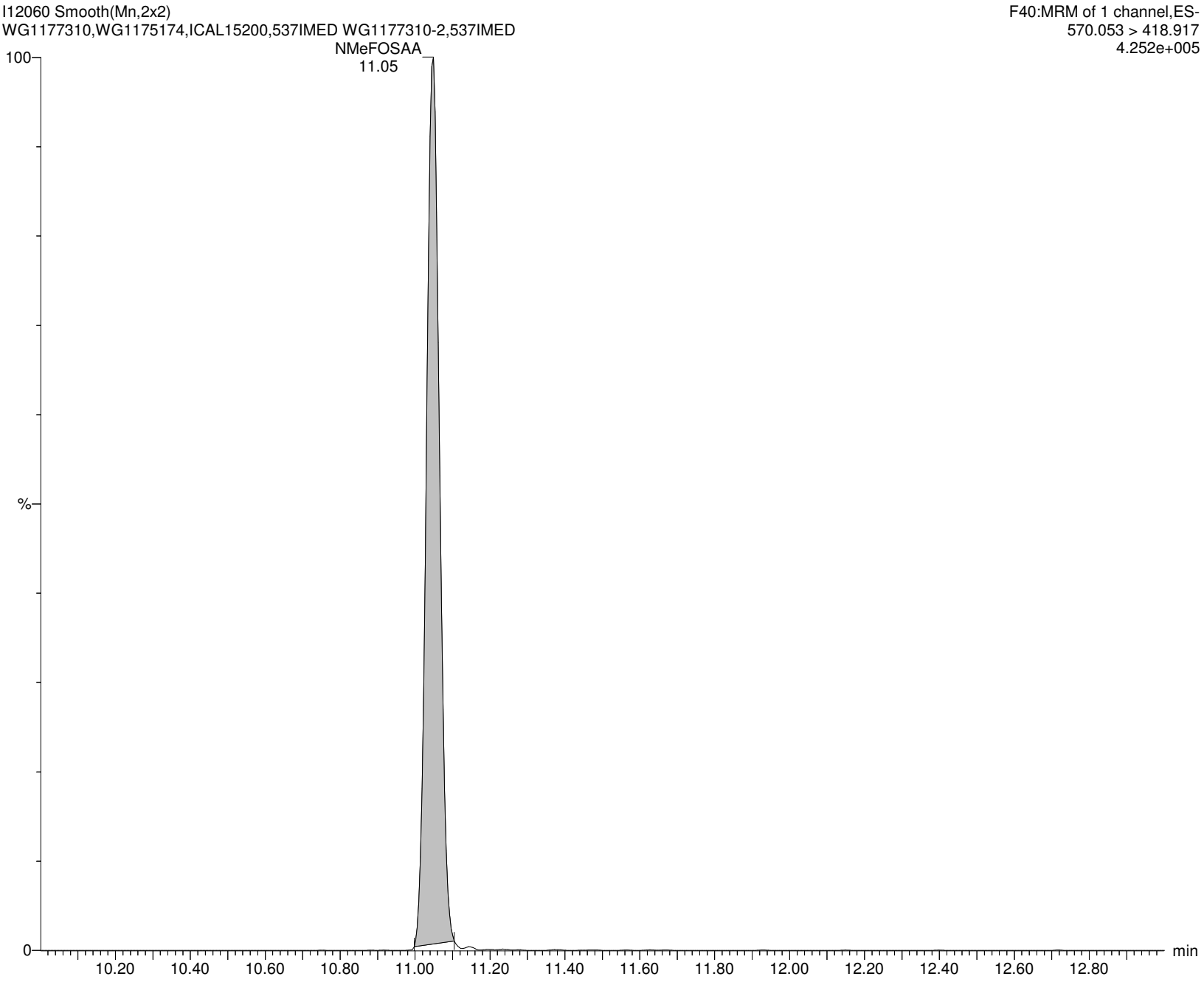

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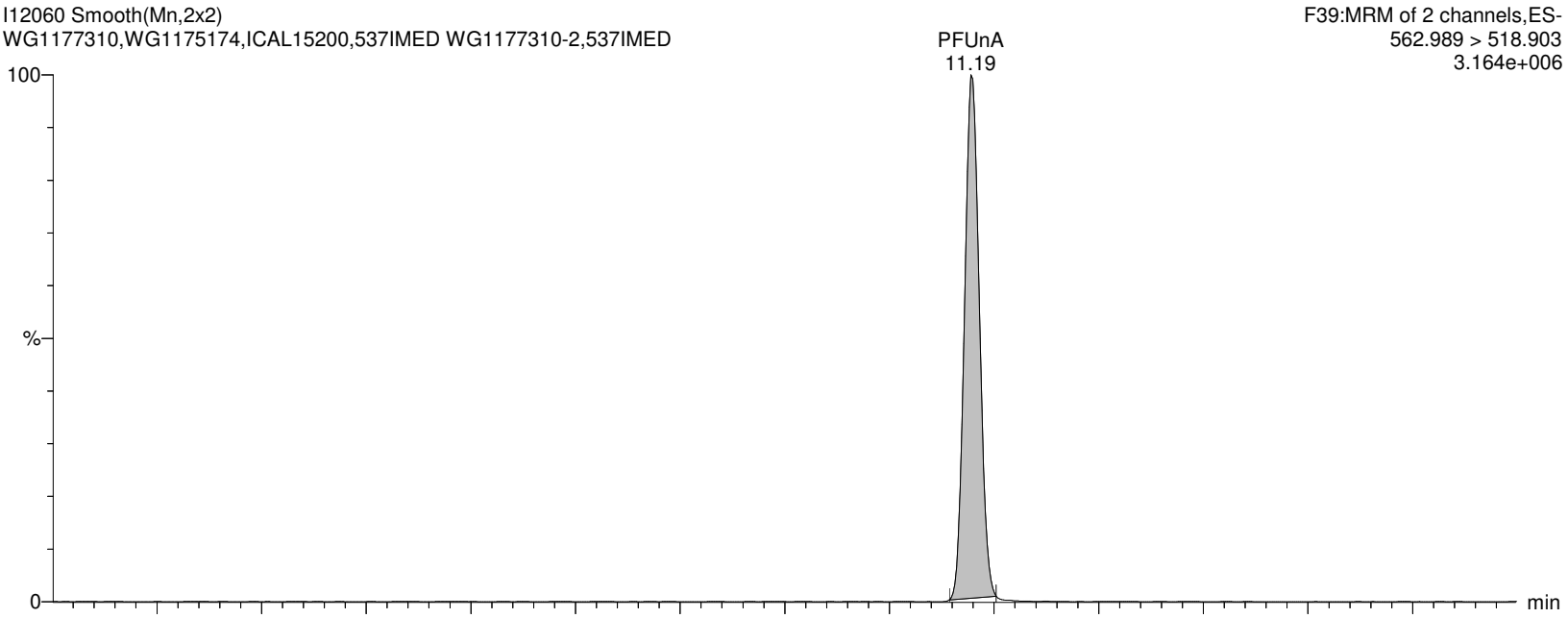
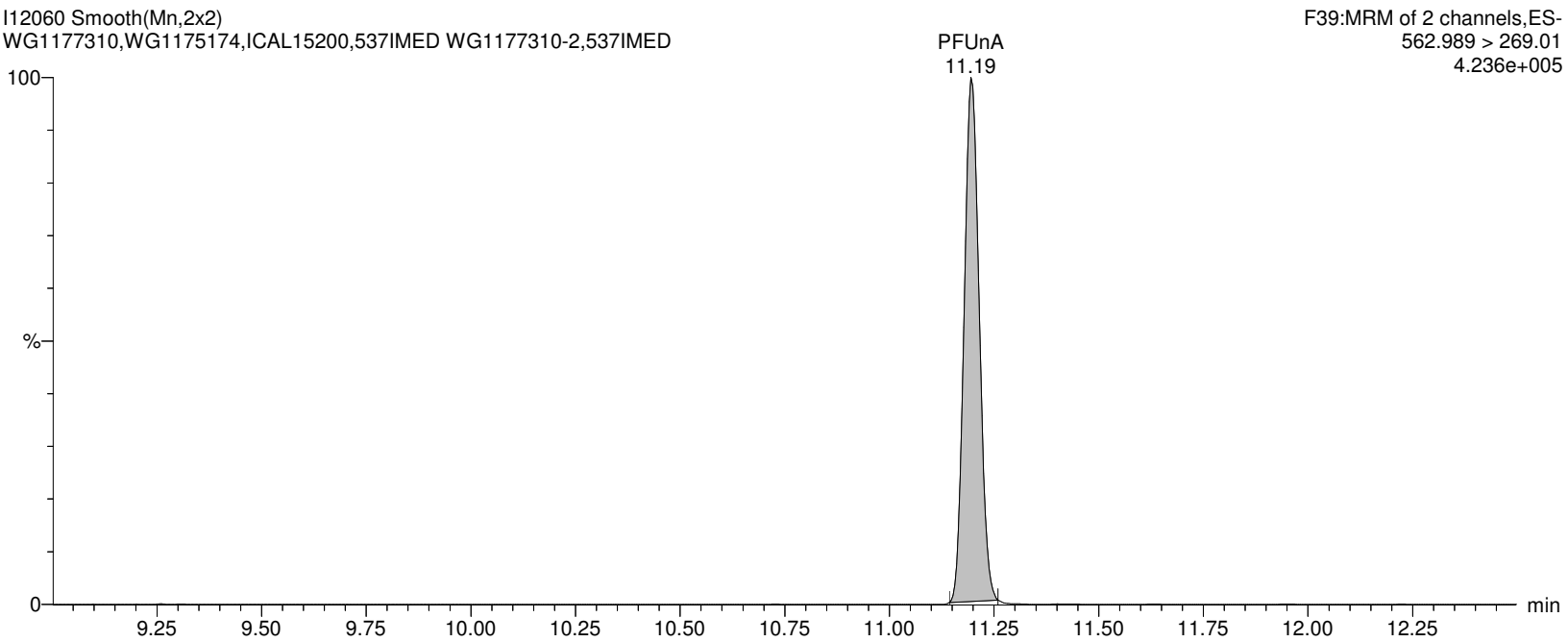
PFUnA



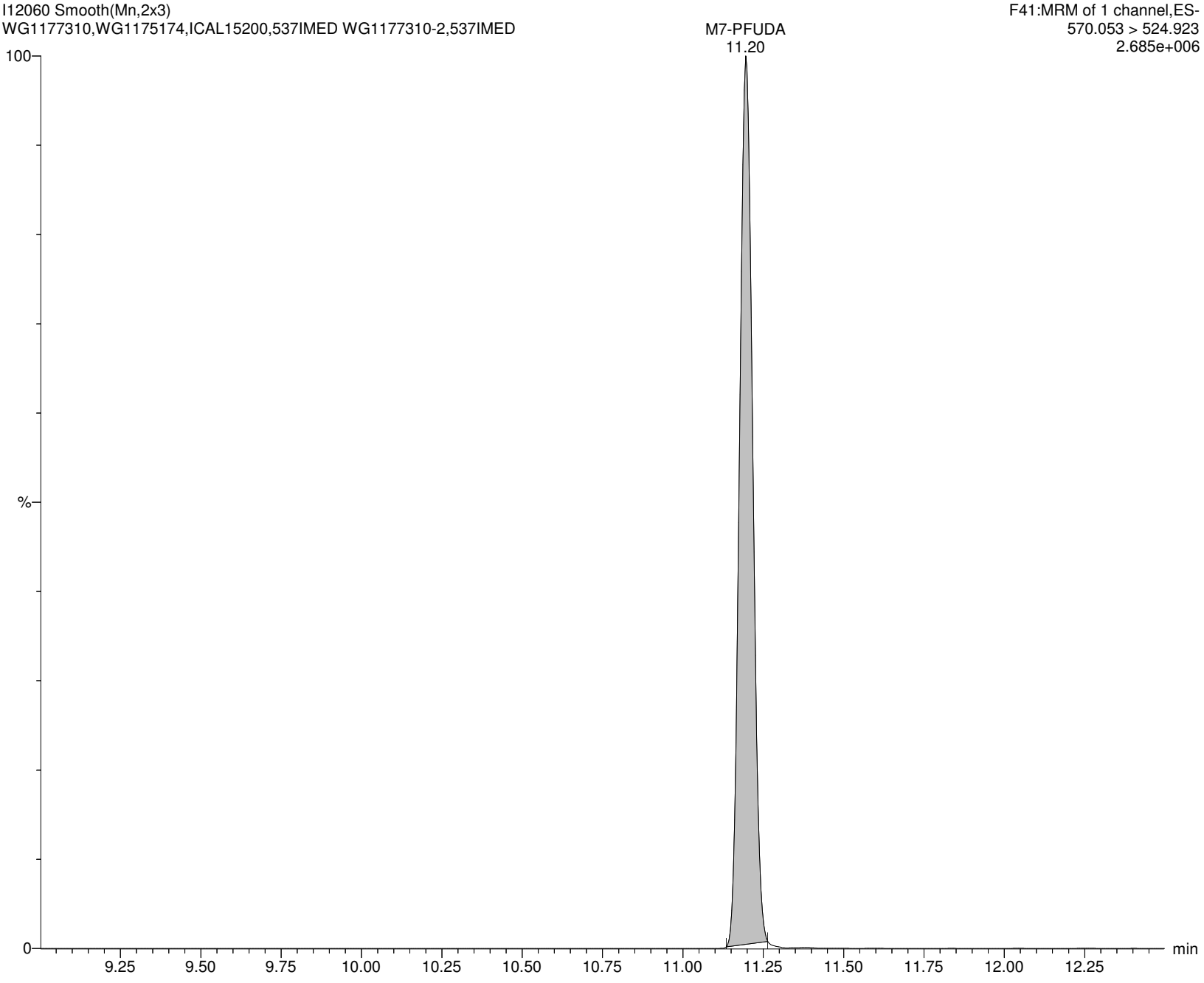


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310A.qld
Last Altered: Thursday, November 08, 2018 14:15:31 Eastern Standard Time
Printed: Thursday, November 08, 2018 14:16:17 Eastern Standard Time

Name: I12060
ID: WG1177310-2,537IMED
Date: 08-Nov-2018
Time: 13:12:24
Description: WG1177310,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M7-PFUDA



all concentration units in (ng/mL)

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Last Altered: Thursday, November 08, 2018 14:15:31 Eastern Standard Time
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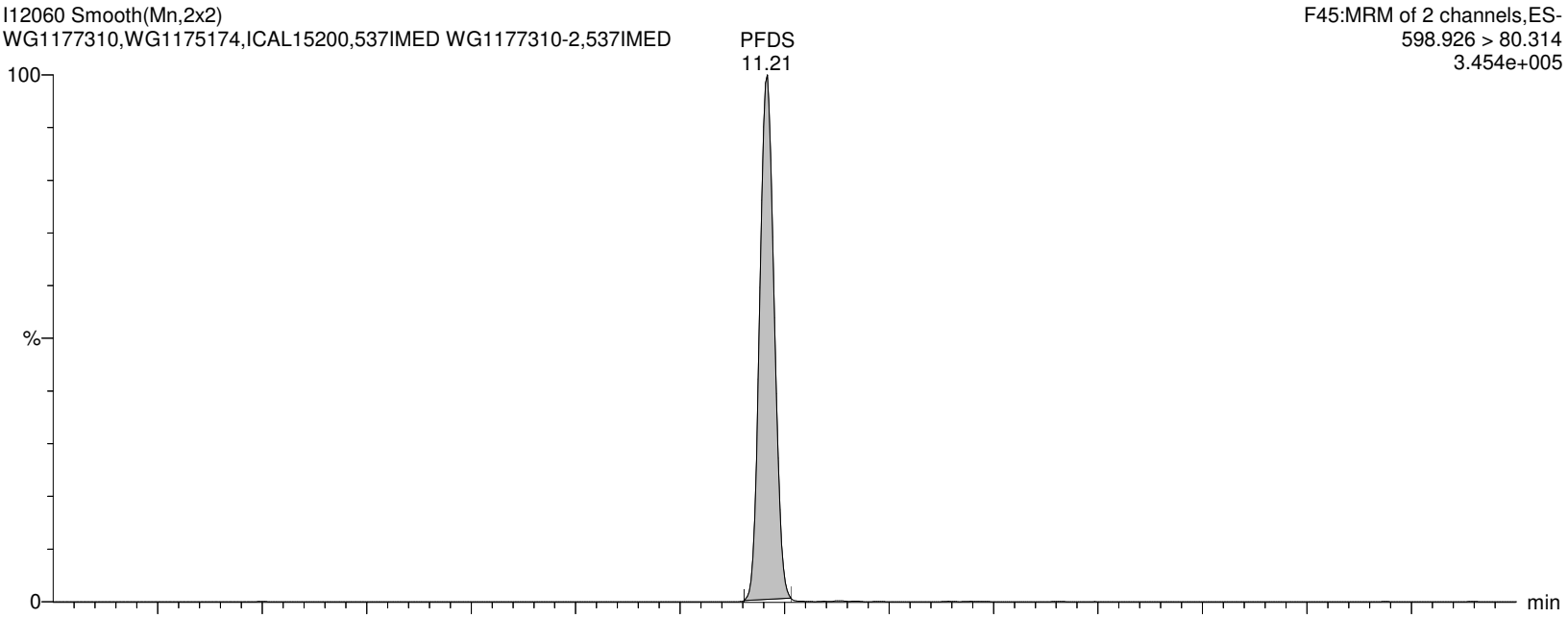

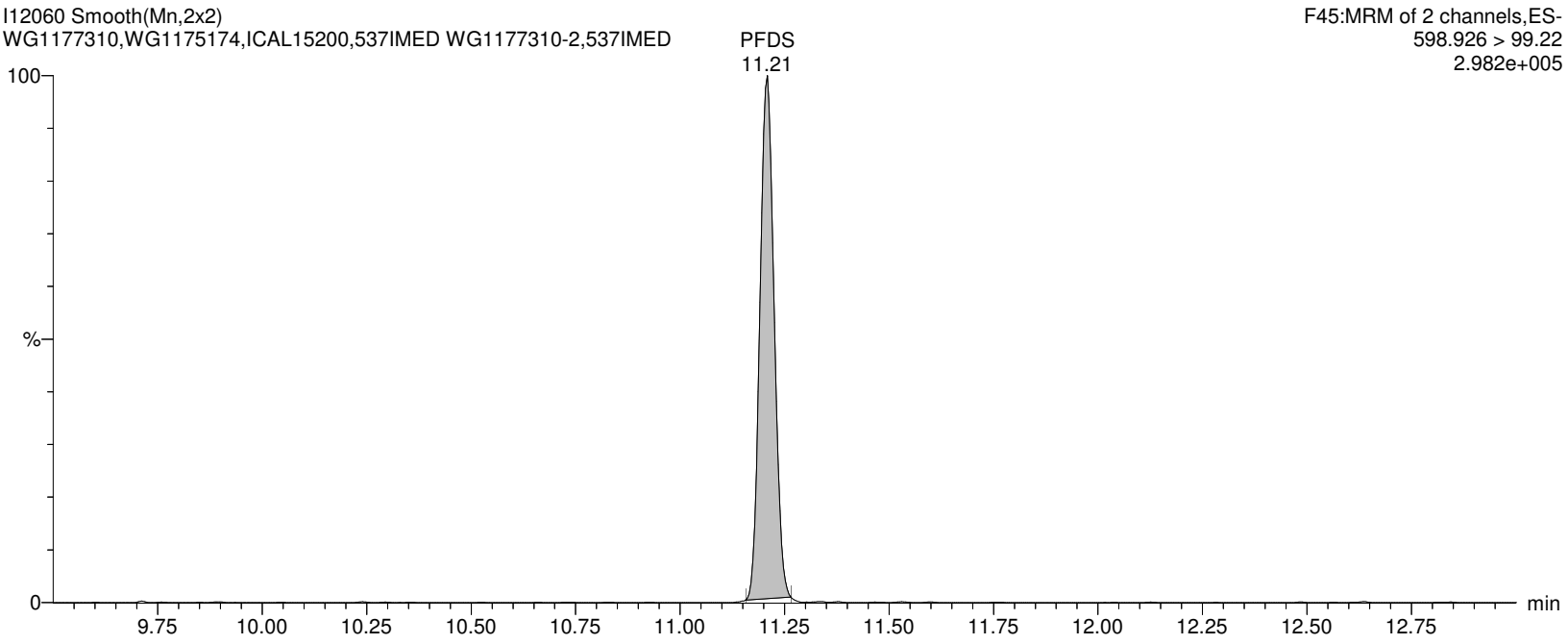

all concentration units in (ng/mL)

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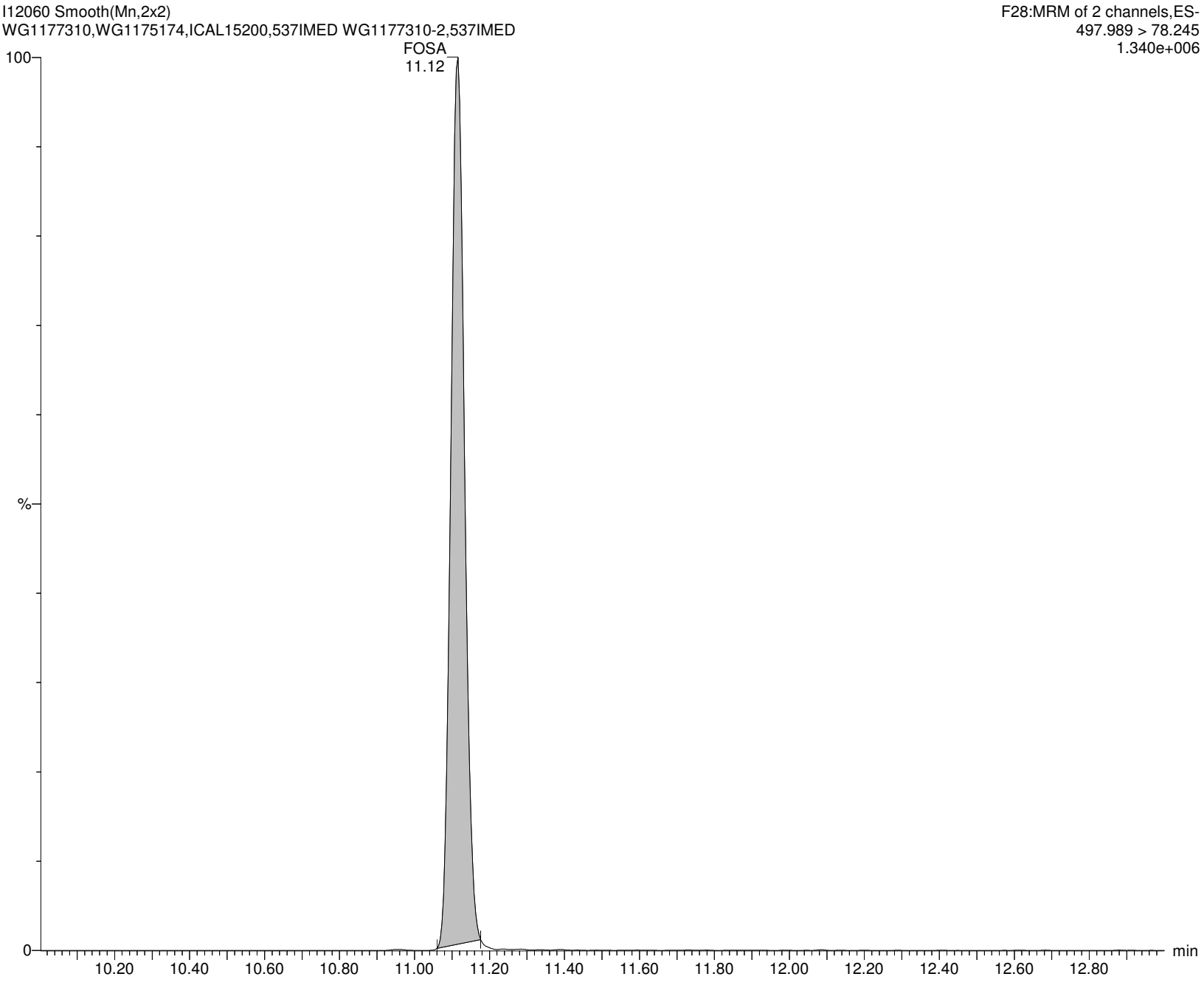

all concentration units in (ng/mL)

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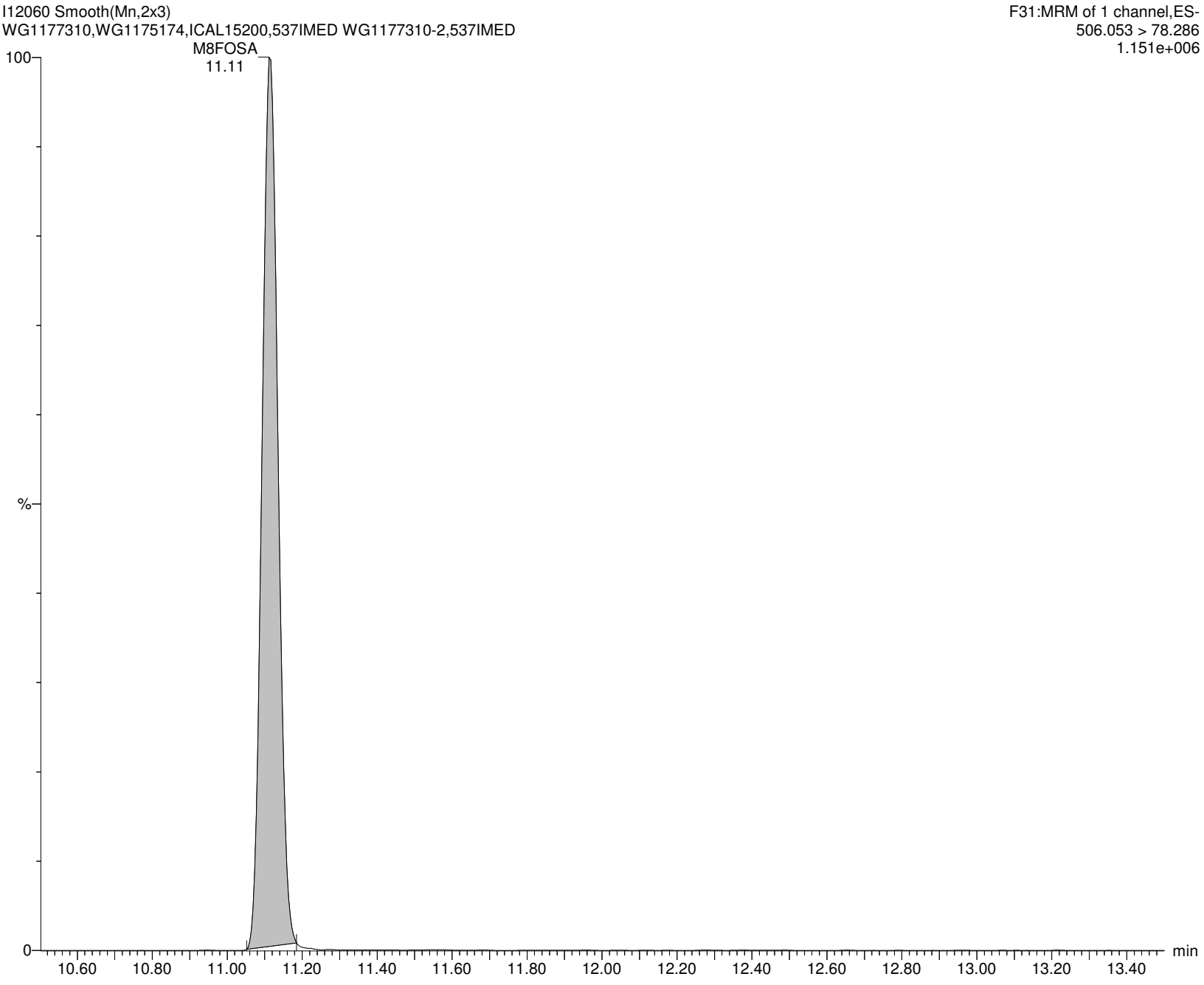

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310A.qld
Last Altered: Thursday, November 08, 2018 14:15:31 Eastern Standard Time
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User: LCMS01:AJ
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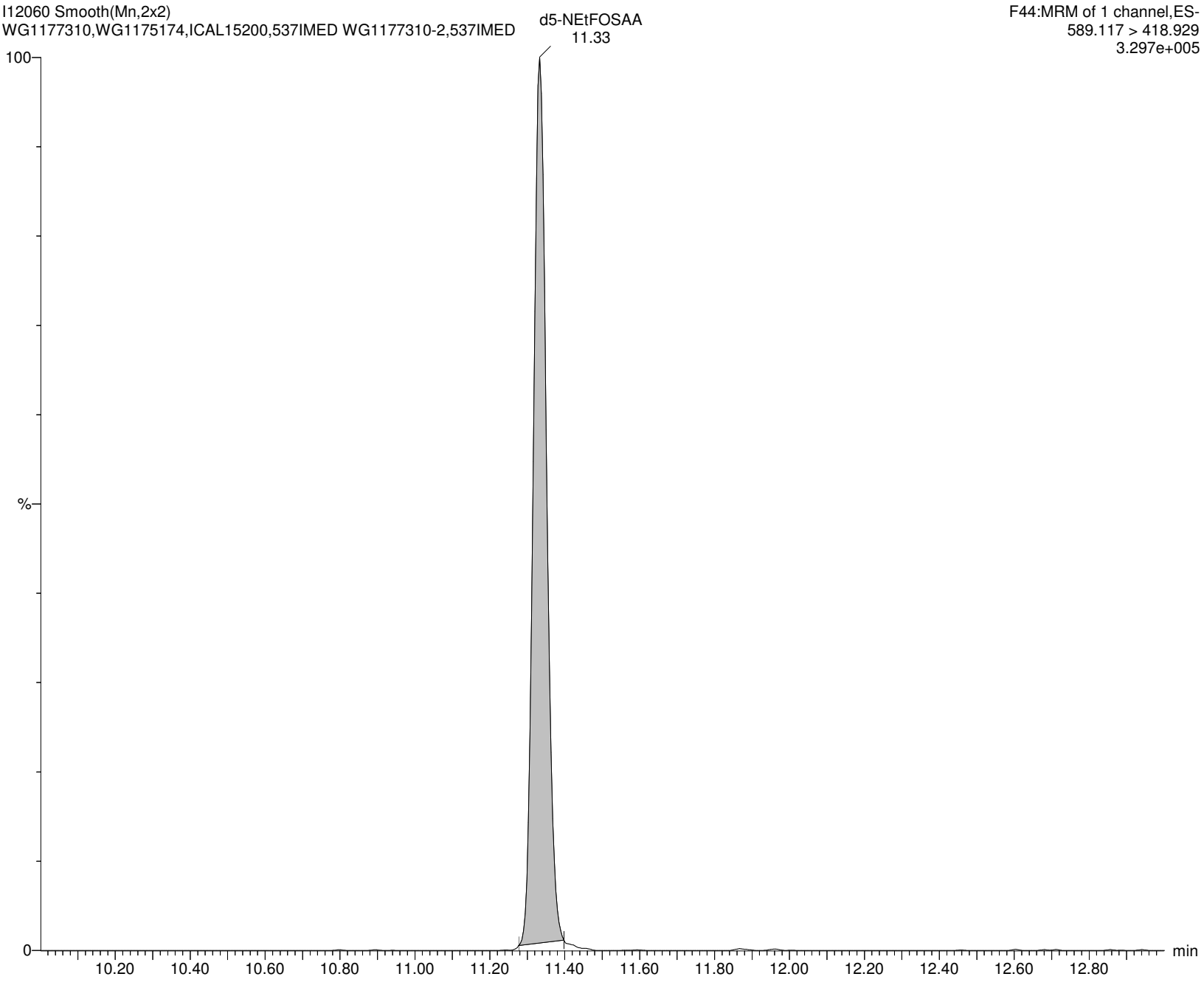

all concentration units in (ng/mL)

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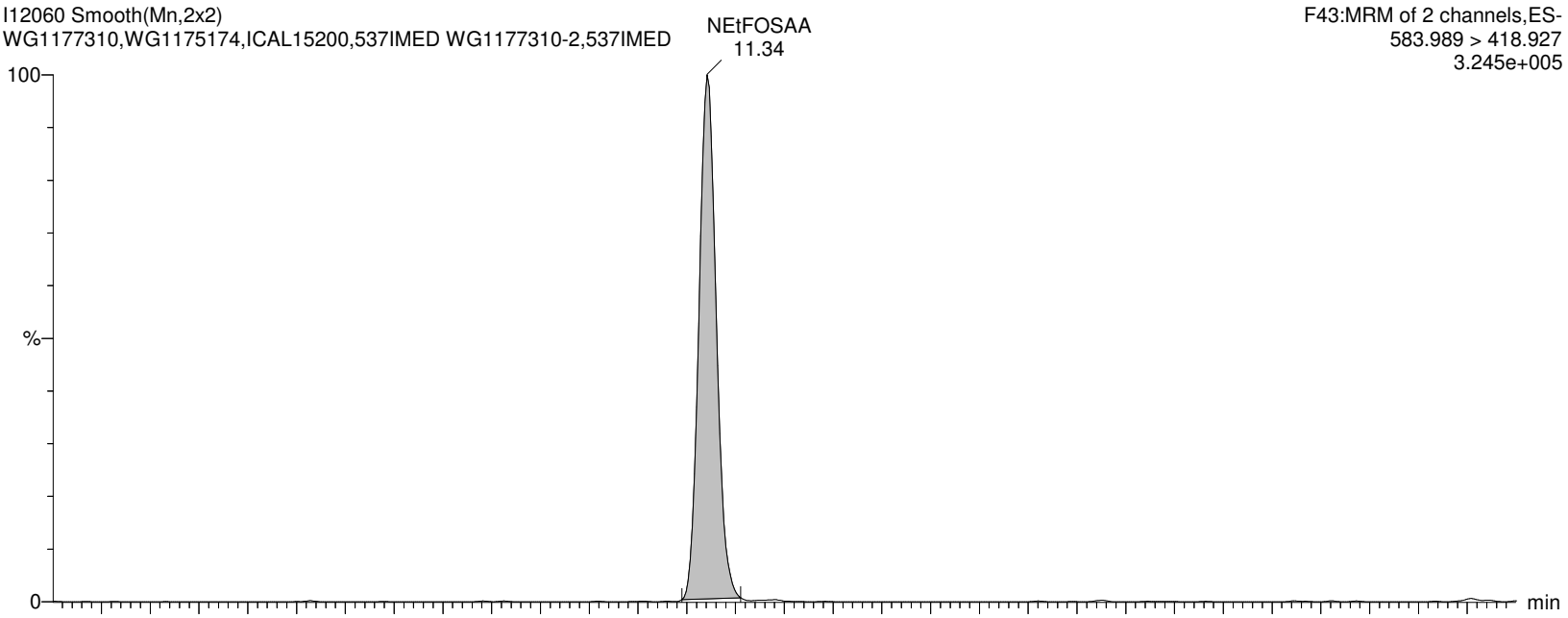

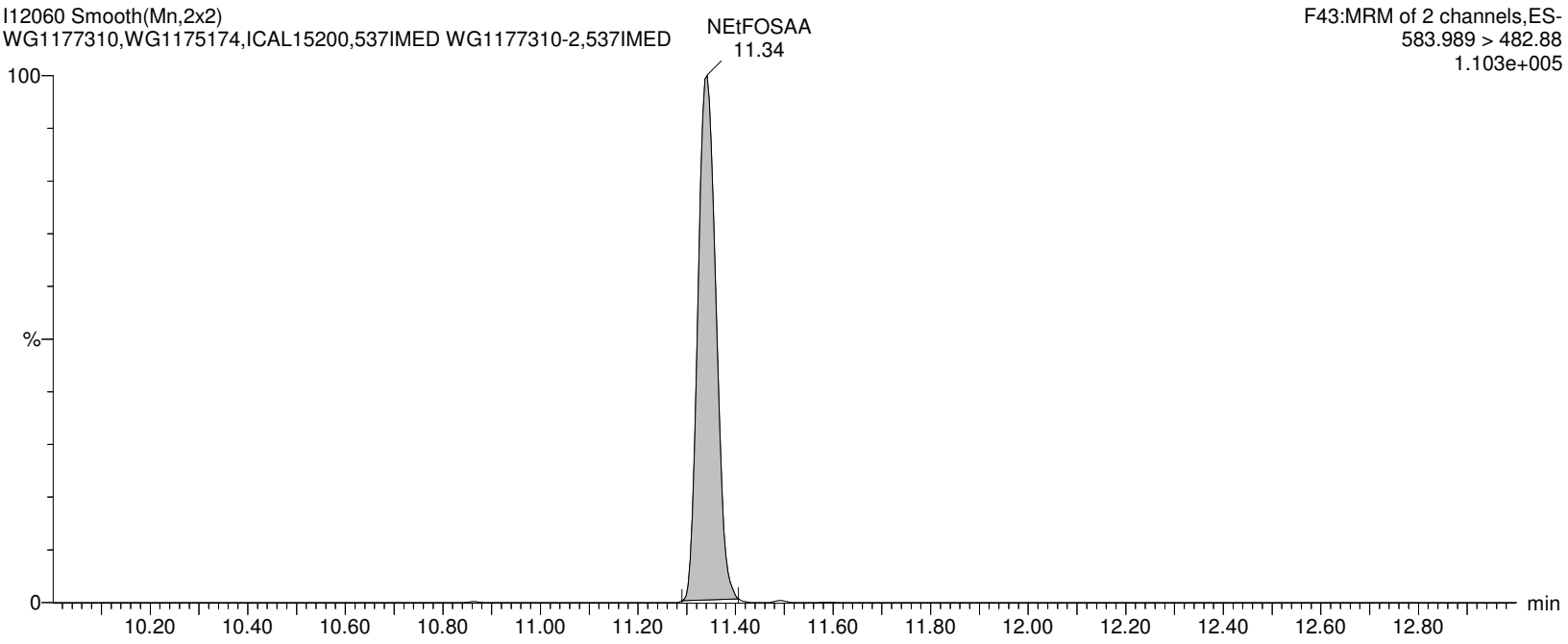

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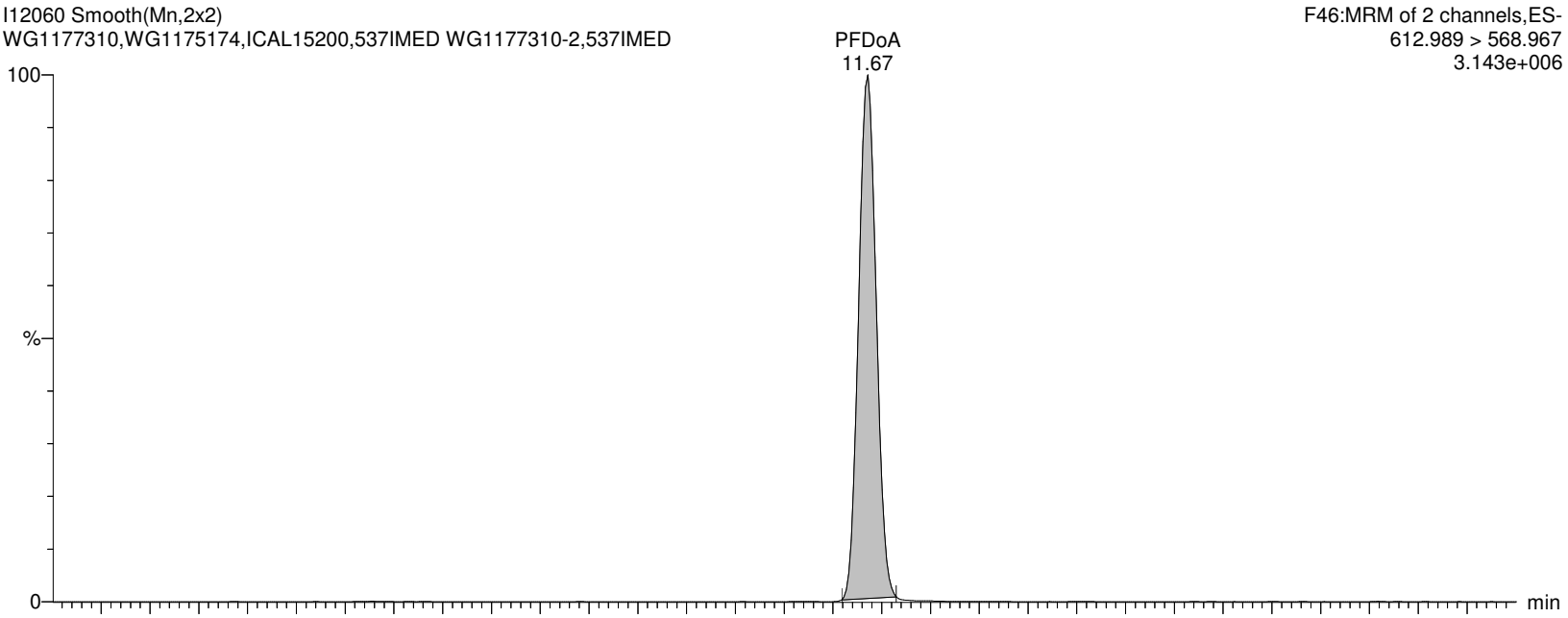

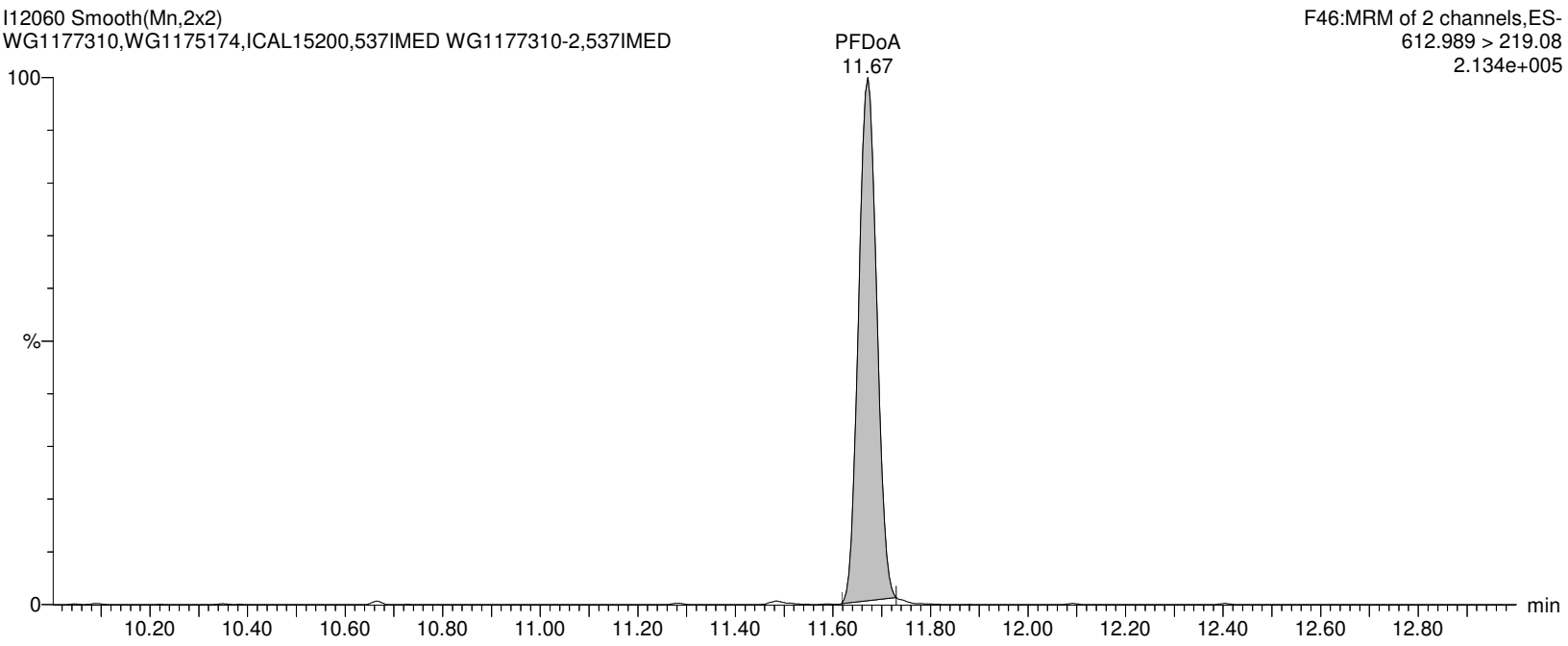

all concentration units in (ng/mL)

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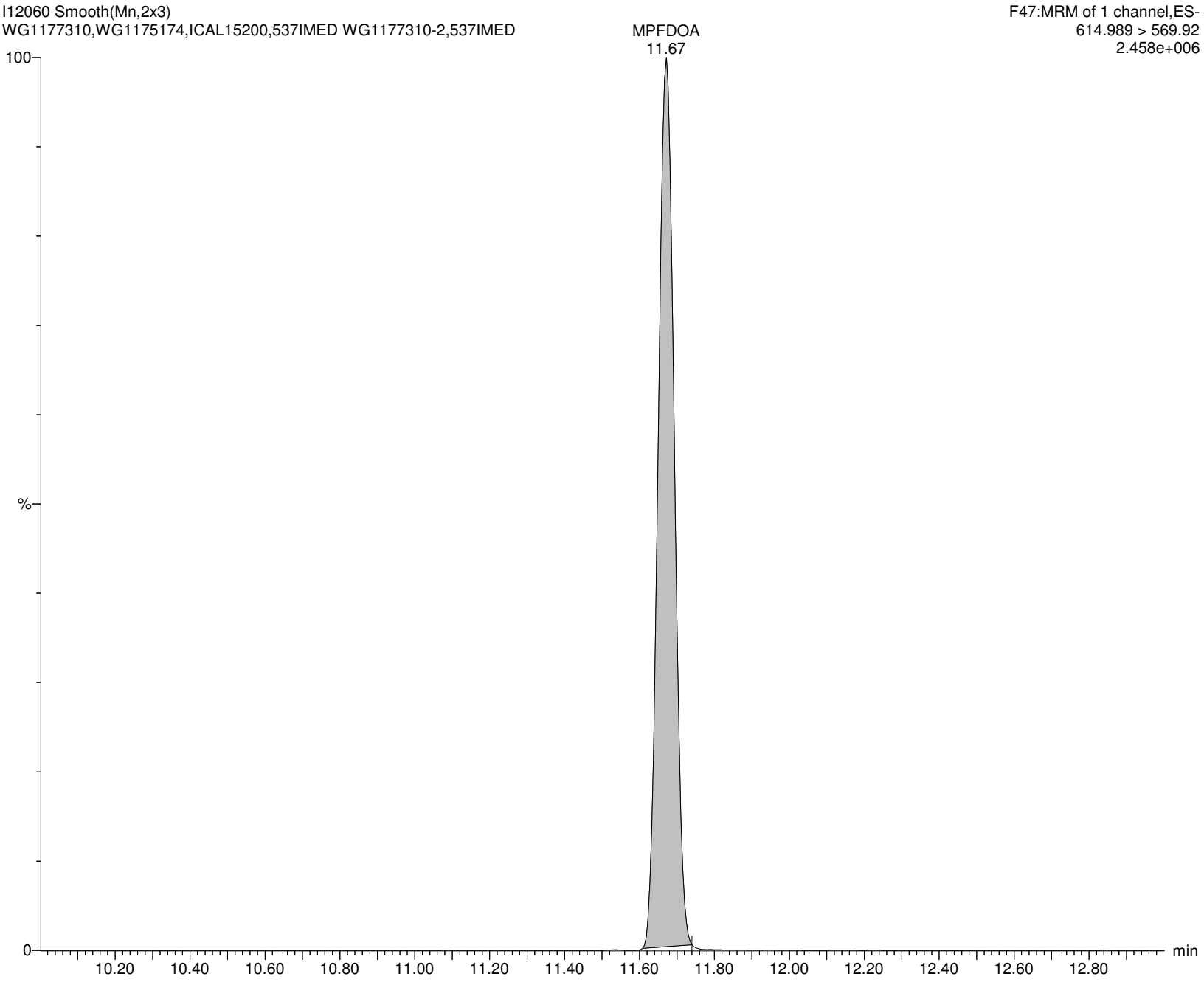

all concentration units in (ng/mL)

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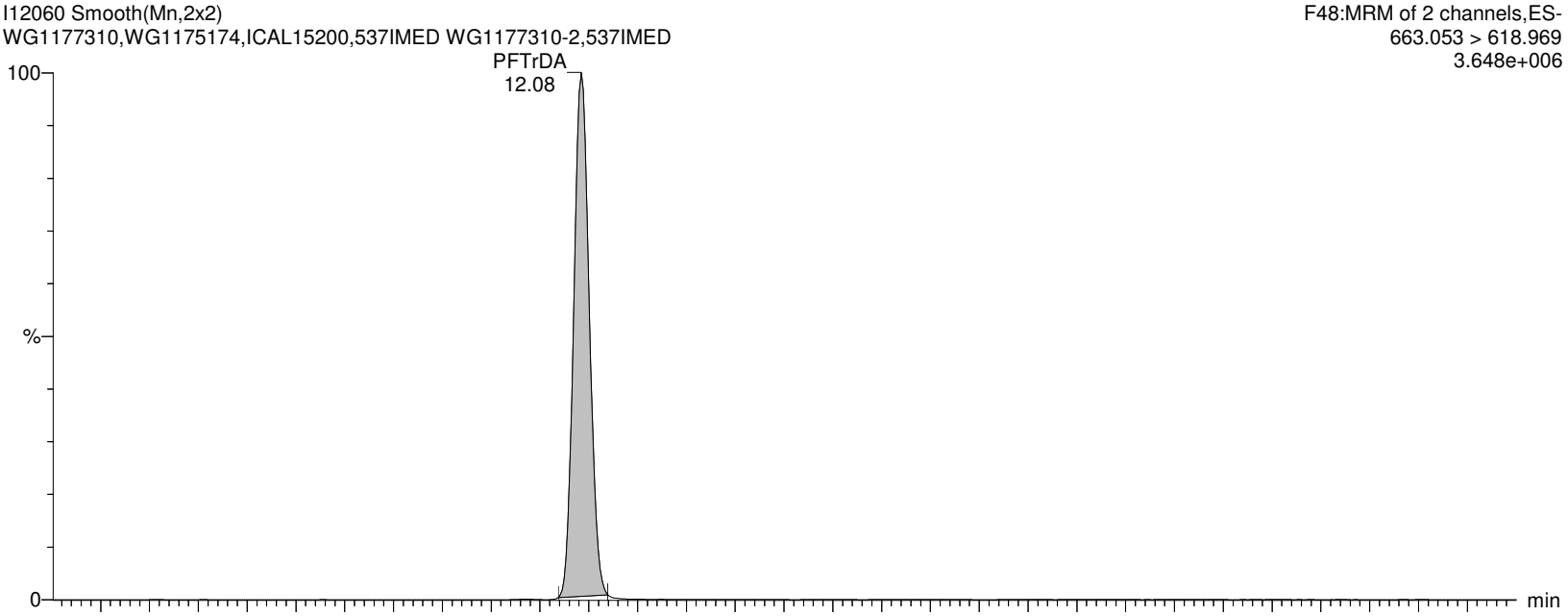

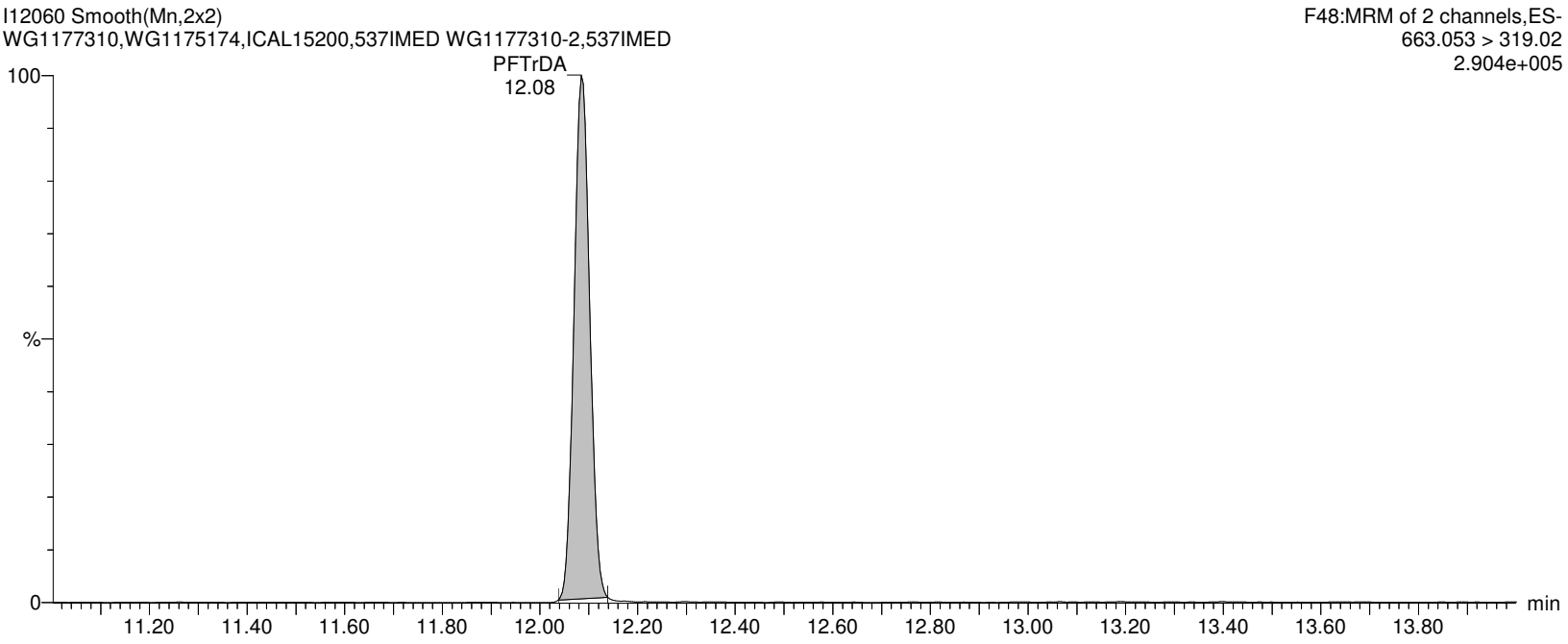

all concentration units in (ng/mL)

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Last Altered: Thursday, November 08, 2018 14:15:31 Eastern Standard Time
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Date: 08-Nov-2018
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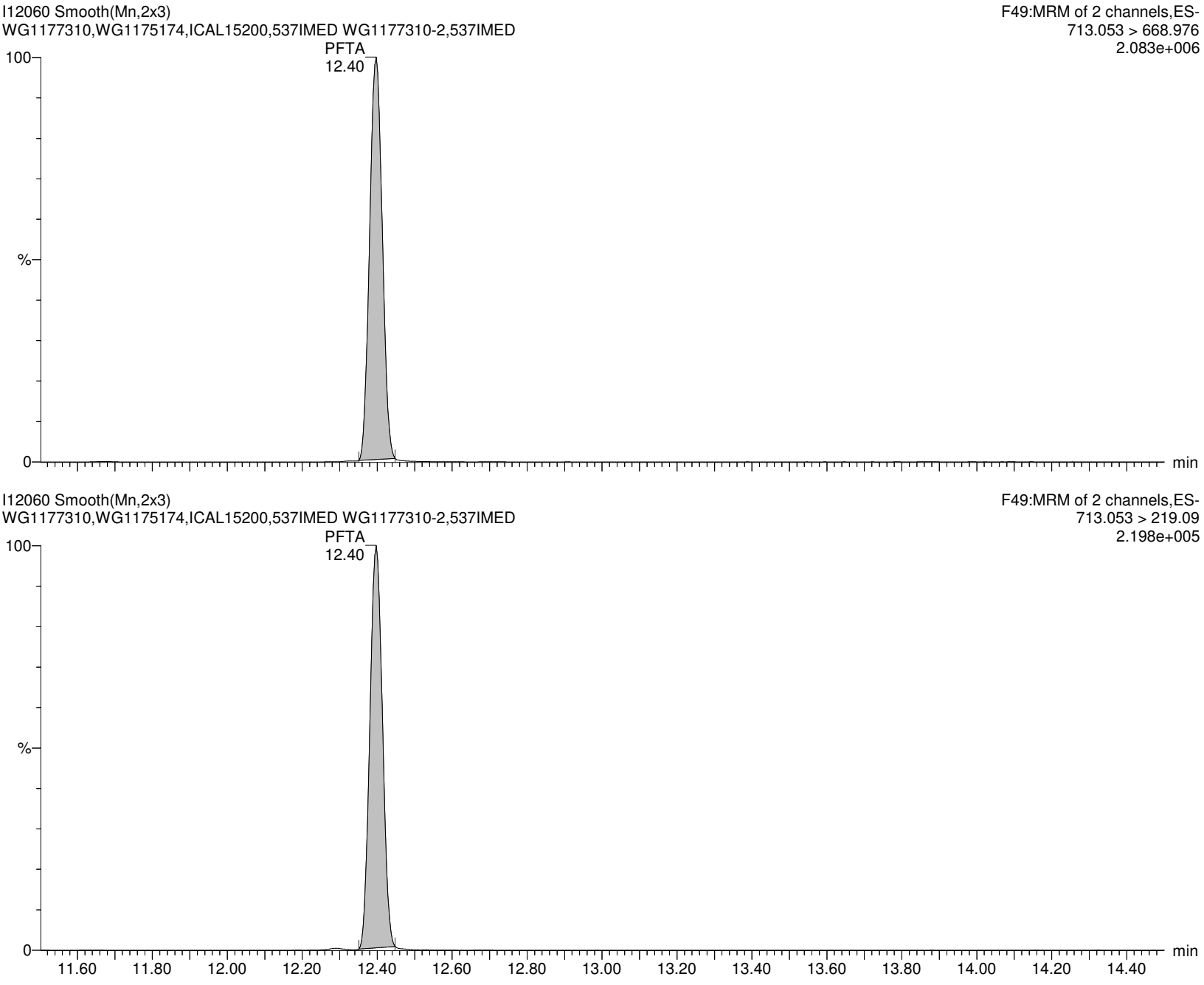

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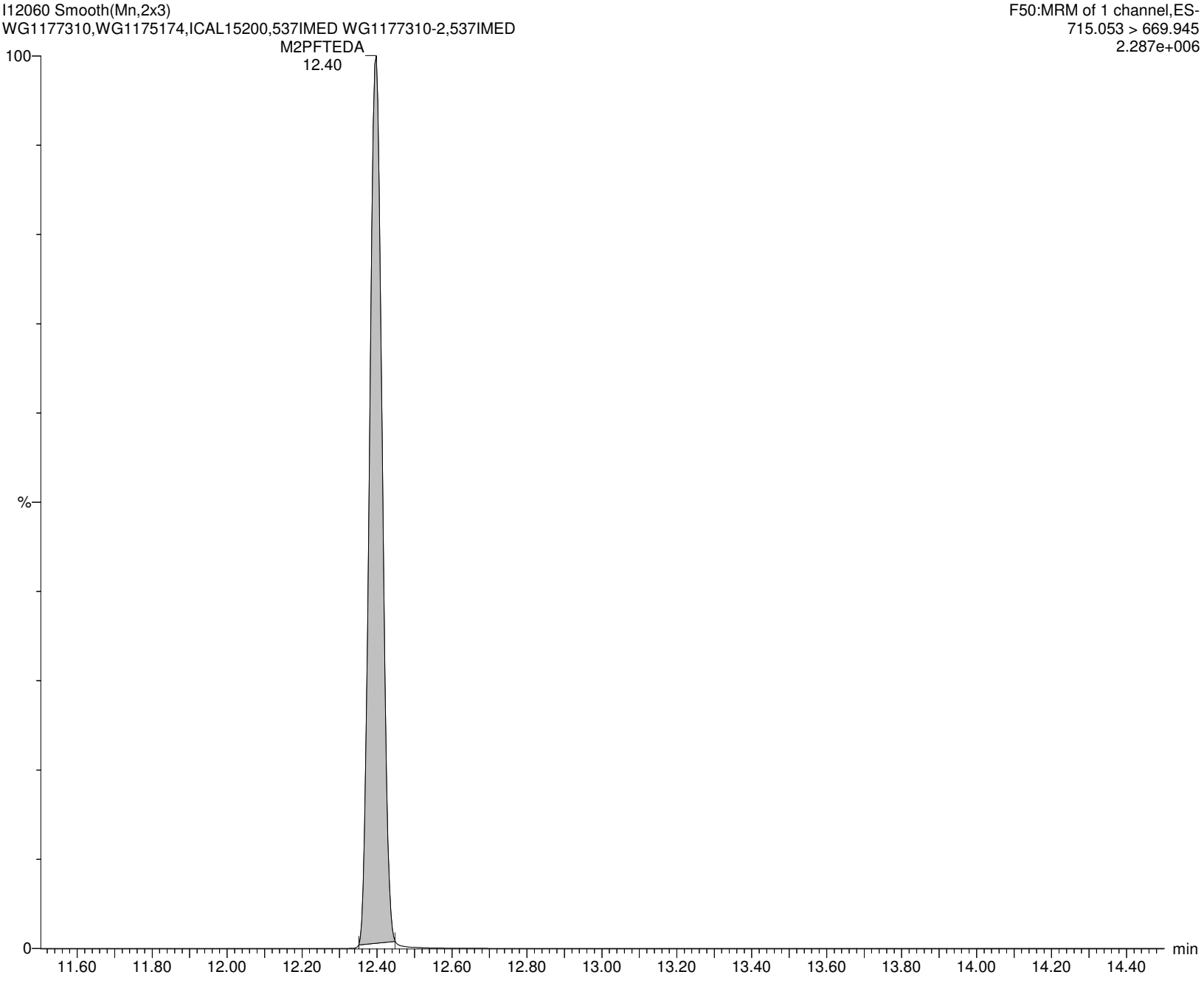

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:20 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1177310-3,537ILOW
Name: I12070
Date: 08-Nov-2018
Time: 15:57:47
Description: WG1177310,WG1175174,ICAL15200,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	3496		0.491		na	98.1
2	M3PFBA	INT STD	2.16	215.926 > 172.122	88438		9.554		na	95.5
3	MPFBA	INT STD	2.16	216.926 > 172.137	81513		9.703		na	97.0
4	PFPeA	2706-90-3	5.14	262.926 > 219.002	5121		0.509		na	101.7
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	106840		9.855		na	98.6
6	PFBS	375-73-5	5.81	298.989 > 80.295	862		0.473		na	106.9
7	M3PFBS	INT STD	5.81	301.989 > 80.254	20542		8.392		na	83.9
8	4:2FTS	757124-72-4	7.00	326.926 > 306.957	412		0.497	2.29	YES	106.3
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	8167		5.379		na	53.8
10	PFHxA	307-24-4	7.07	312.989 > 269.028	5931		0.481		na	96.2
11	M5PFHxA	INT STD	7.07	317.989 > 273.045	127008		8.840		na	88.4
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	951		0.362	2.01	NO	77.1
13	PFHpA	375-85-9	8.35	362.926 > 319.014	8267		0.509	4.79	NO	101.8
14	M4PFHpA	INT STD	8.35	366.926 > 321.979	165041		9.769		na	97.7
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	134		0.054	2.20	YES	63.6
16	L-PFHxS	355-46-4	8.51	398.926 > 80.295	810		0.379	1.83	NO	102.3
17	PFHxS	355-46-4		398.926 > 80.295	944		0.433		na	
18	M3PFHxS	INT STD	8.51	401.926 > 80.317	15184		11.169		na	111.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.29	412.989 > 368.9	8283		0.533	9.49	NO	106.6
21	M2PFOA	INT STD	9.29	415.032 > 369.968	199436		10.563		na	105.6
22	PFOA	335-67-1		412.989 > 368.9	8283		0.533		na	
23	M8PFOA	INT STD	9.29	420.989 > 375.979	159341		9.907		na	99.1
24	6:2FTS	27619-97-2	9.25	426.989 > 406.921	307		0.371		na	78.0
25	M2-6:2FTS	INT STD	9.25	428.989 > 408.917	8248		6.545		na	65.4
26	PFHpS	375-92-8	9.38	448.926 > 80.257	496		0.481	0.74	NO	101.3
27	PFNA	375-95-1	10.04	462.989 > 418.931	6787		0.511	4.43	NO	102.1
28	M9PFNA	INT STD	10.03	472.053 > 426.947	159109		9.919		na	99.2
29	br-PFOS	1763-23-1	9.90	498.989 > 80.294	230		0.094	0.56	YES	94.1
30	L-PFOS	1763-23-1	10.09	498.989 > 80.294	738		0.424	61.40	YES	116.2
31	PFOS	1763-23-1		498.989 > 80.294	968		0.518		na	
32	M4PFOS	INT STD	10.09	503.032 > 80.306	19635		12.121		na	121.2
33	M8PFOS	INT STD	10.09	507.053 > 80.294	16659		9.098		na	91.0
34	PFDA	335-76-2	10.67	513.053 > 468.906	6736		0.549	6.02	NO	109.8
35	M2PFDA	INT STD	10.67	515.053 > 469.934	163216		10.979		na	109.8
36	M6PFDA	INT STD	10.67	519.053 > 473.931	138302		9.385		na	93.8
37	8:2FTS	39108-34-4	10.65	526.989 > 506.946	331		0.522		na	108.6
38	M2-8:2FTS	INT STD	10.65	529.053 > 508.945	5122		6.921		na	69.2
39	PFNS	68259-12-1	10.69	548.989 > 80.249	680		0.524	1.02	YES	109.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
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ID: WG1177310-3,537ILOW
Name: I12070
Date: 08-Nov-2018
Time: 15:57:47
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Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.05	573.096 > 418.987	13266		8.350		na	83.5
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	687		0.515		na	103.0
42	PFUnA	2058-94-8	11.21	562.989 > 518.903	6681		0.497	8.36	NO	99.3
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	135398		10.977		na	109.8
44	PFDS	335-77-3	11.22	598.926 > 80.314	660		0.553	1.26	NO	114.7
45	FOSA	754-91-6	11.12	497.989 > 78.245	2464		0.472		na	94.5
46	M8FOSA	INT STD	11.12	506.053 > 78.286	53320		10.141		na	101.4
47	d5-NEtFOSAA	INT STD	11.34	589.117 > 418.929	12188		7.953		na	79.5
48	NEtFOSAA	2991-50-6	11.34	583.989 > 418.927	593		0.476	2.29	YES	95.2
49	PFDoA	307-55-1	11.68	612.989 > 568.967	6762		0.577	13.94	NO	115.4
50	MPFDOA	INT STD	11.68	614.989 > 569.92	125723		9.072		na	90.7
51	PFTrDA	72629-94-8	12.09	663.053 > 618.969	6211		0.630	12.27	NO	126.0
52	PFTA	376-06-7	12.40	713.053 > 668.976	3852		0.543	9.89	NO	108.6
53	M2PFTEDA	INT STD	12.40	715.053 > 669.945	84490		8.231		na	82.3

all concentration units in (ng/mL)

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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

Name: I12070
ID: WG1177310-3,537ILOW
Date: 08-Nov-2018
Time: 15:57:47
Description: WG1177310,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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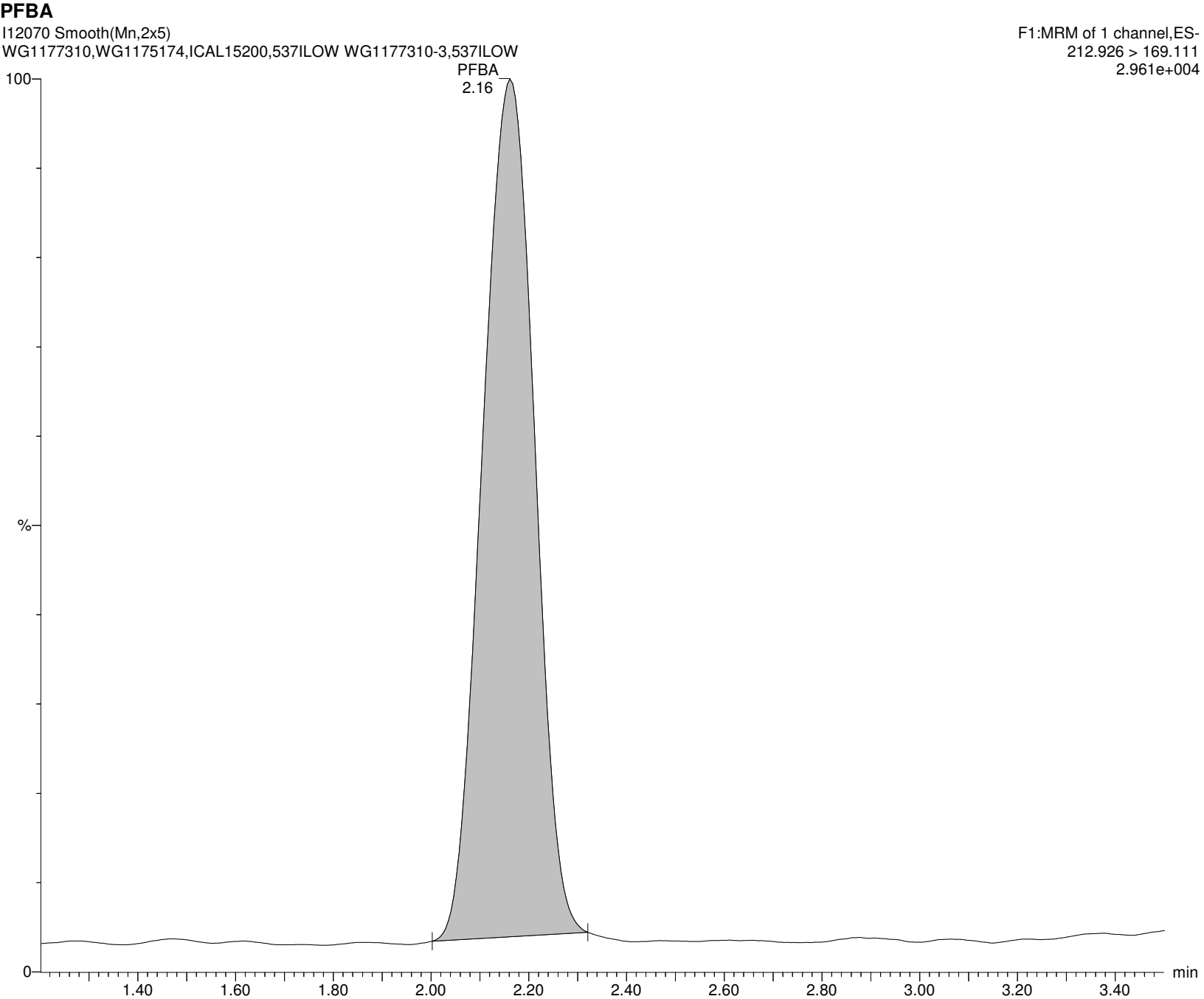

all concentration units in (ng/mL)

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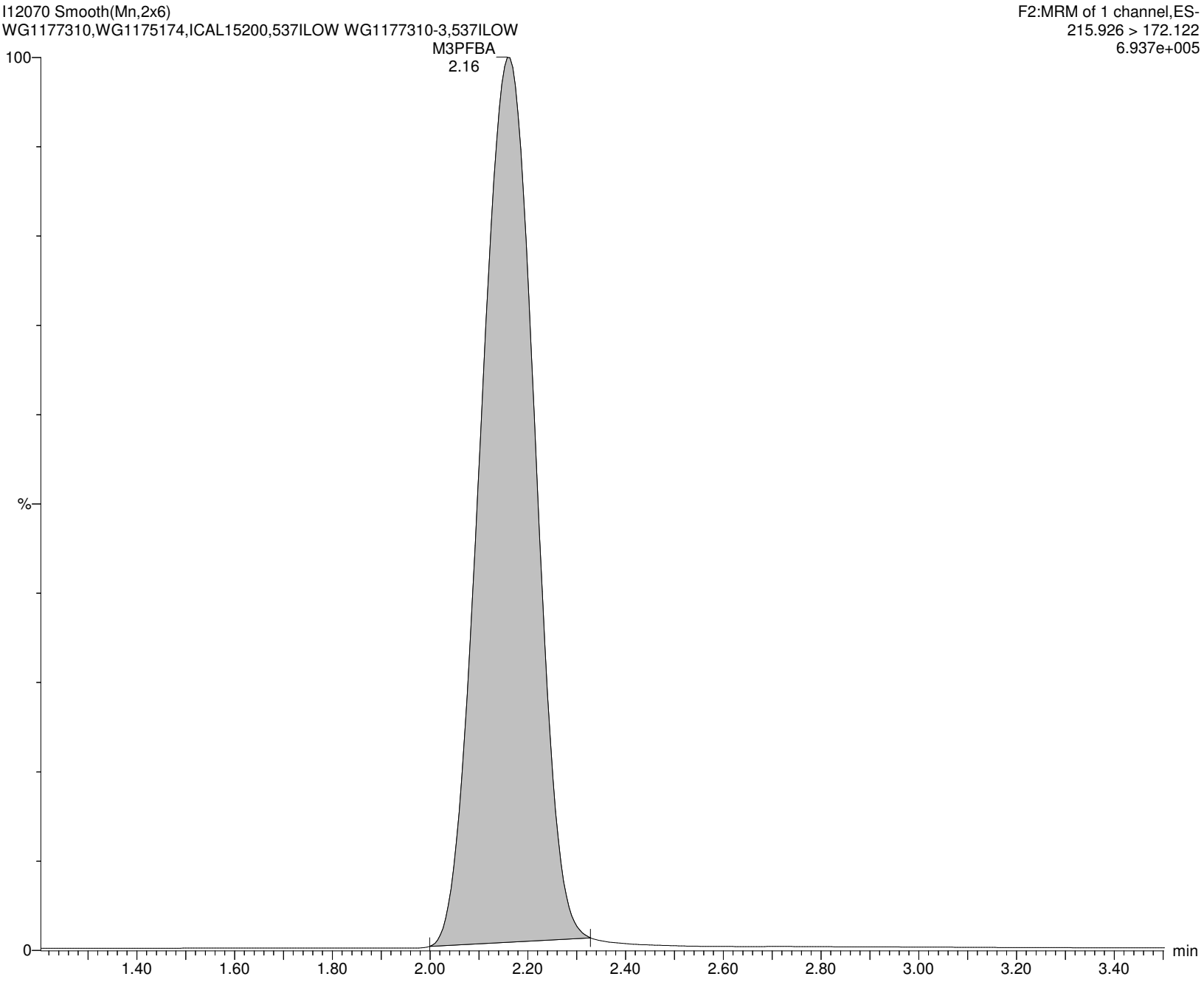

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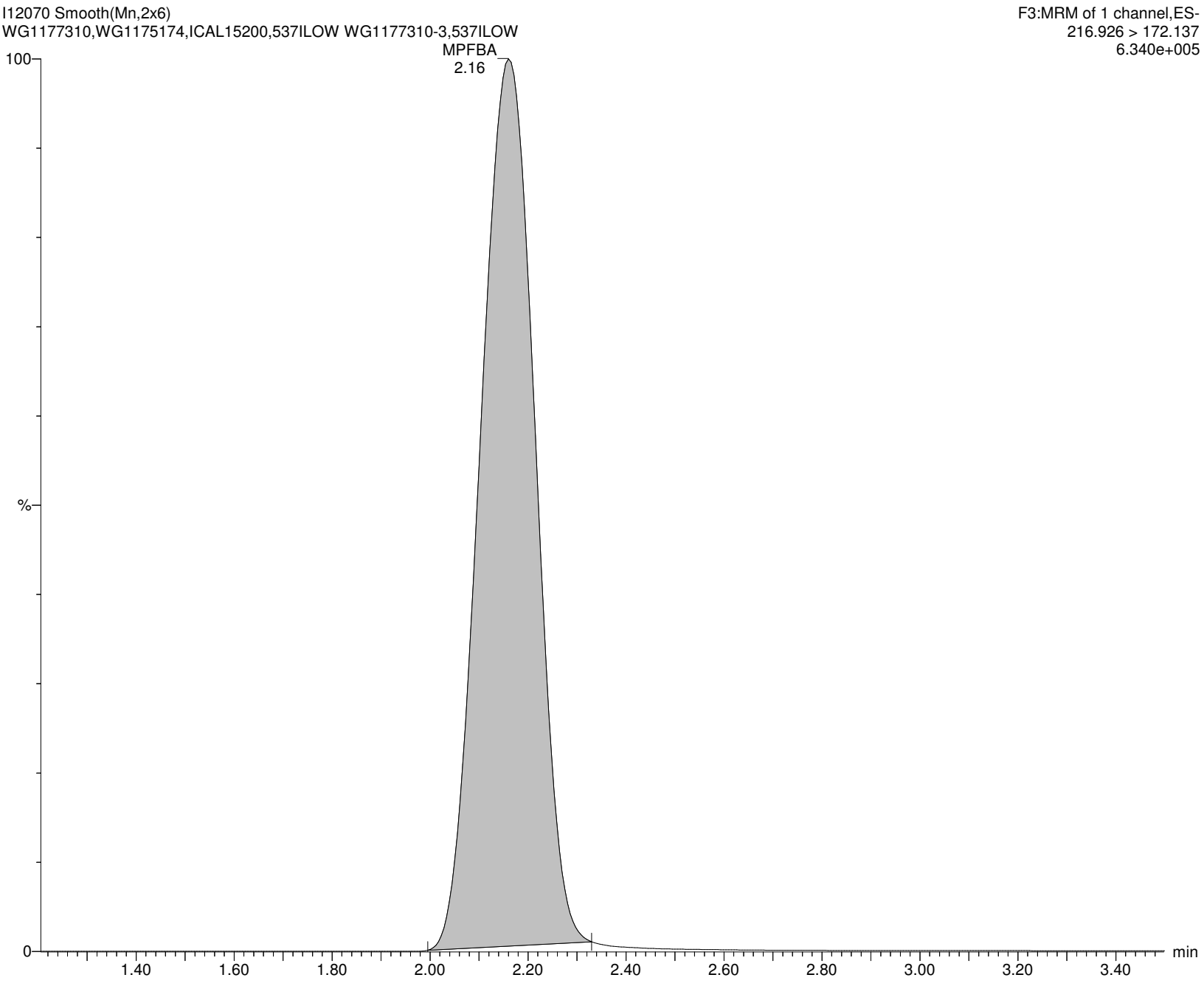

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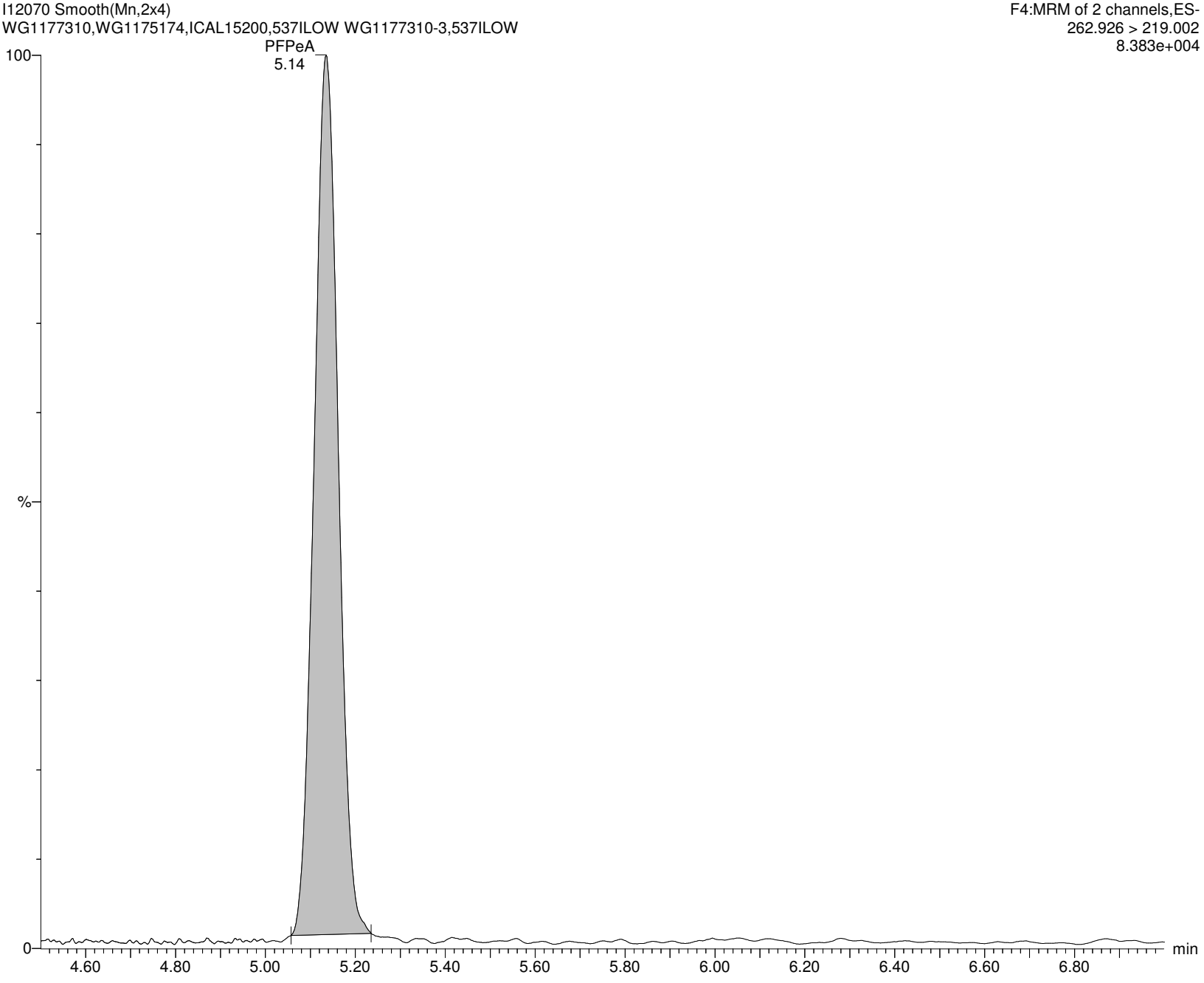

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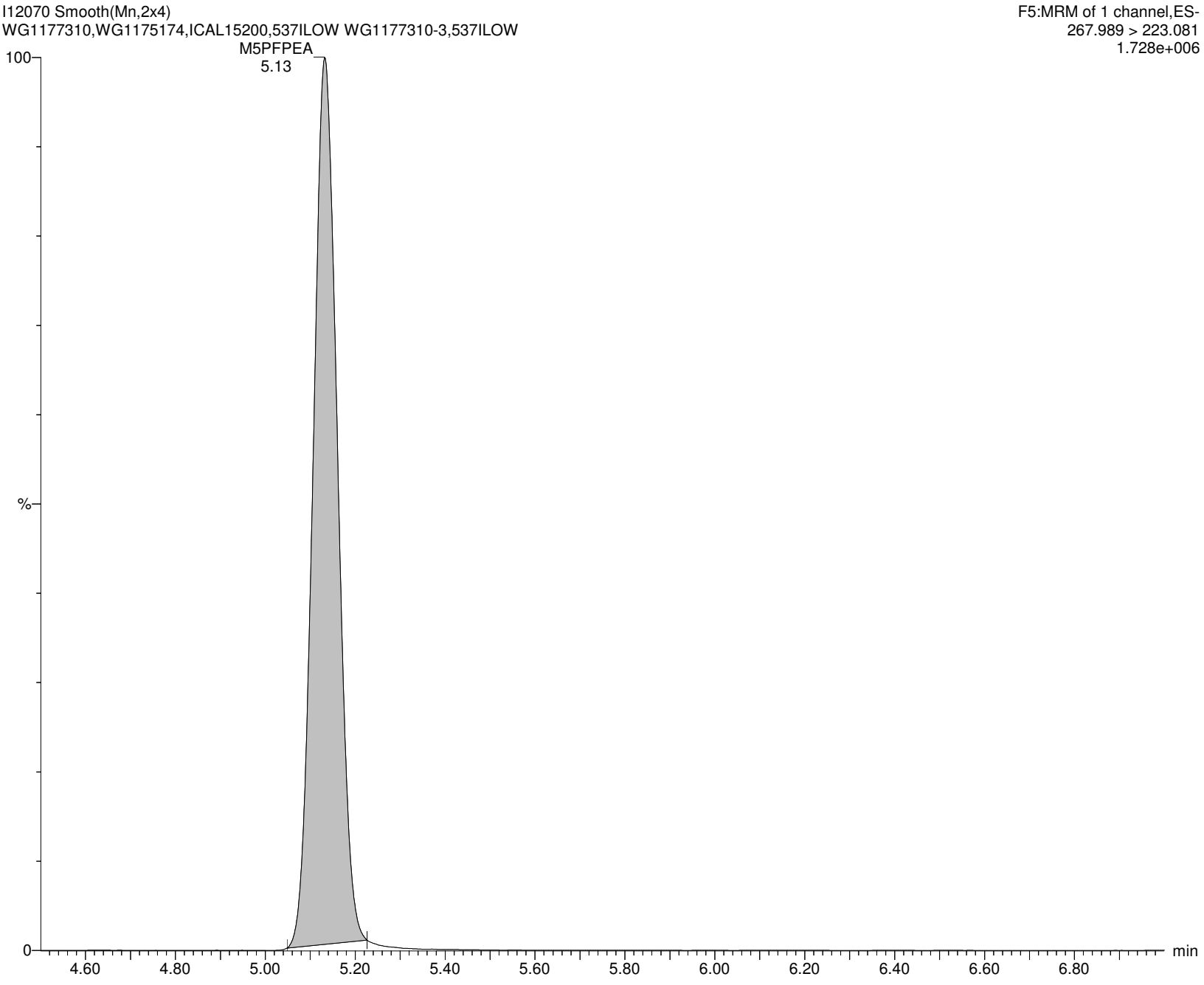

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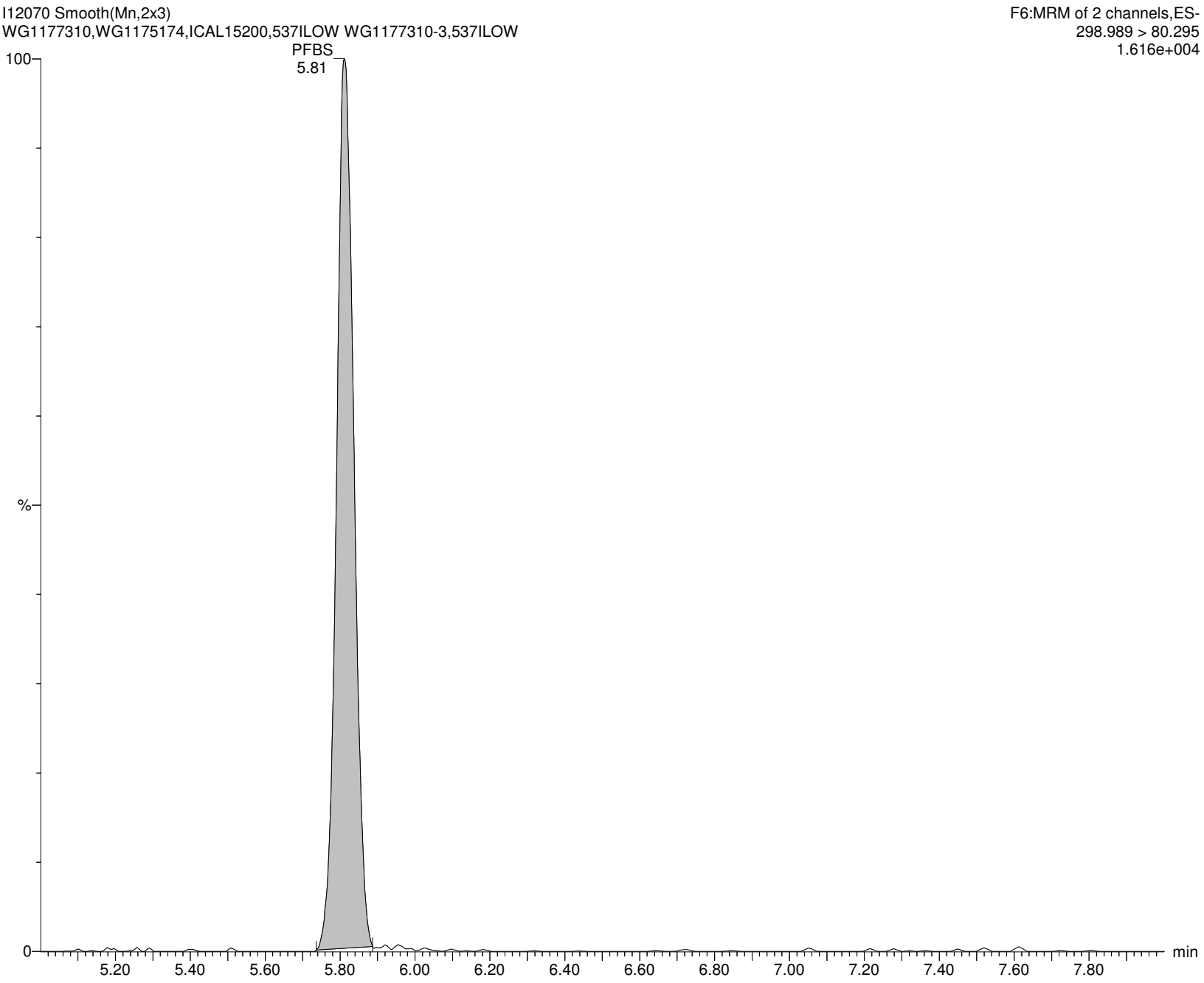

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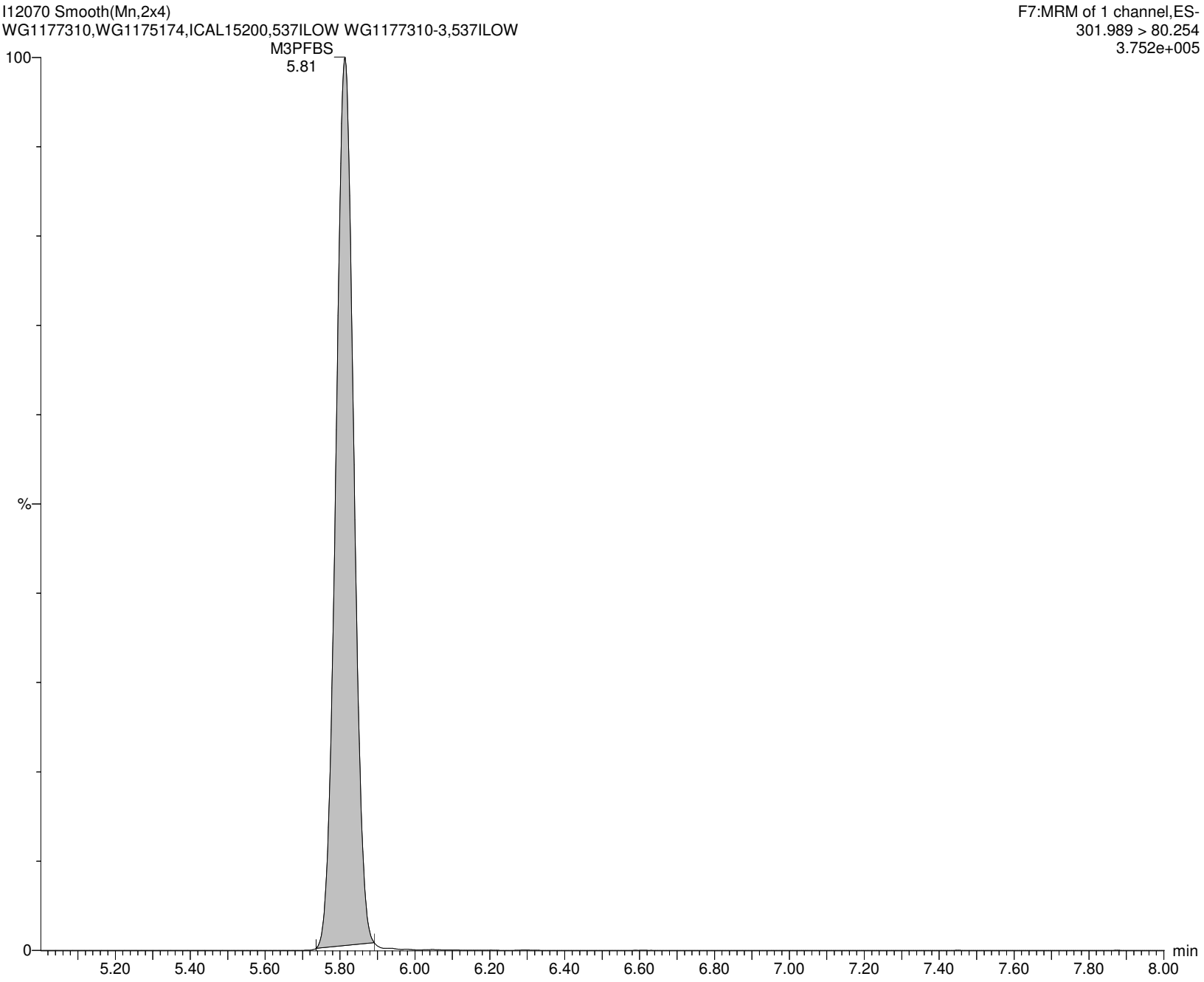

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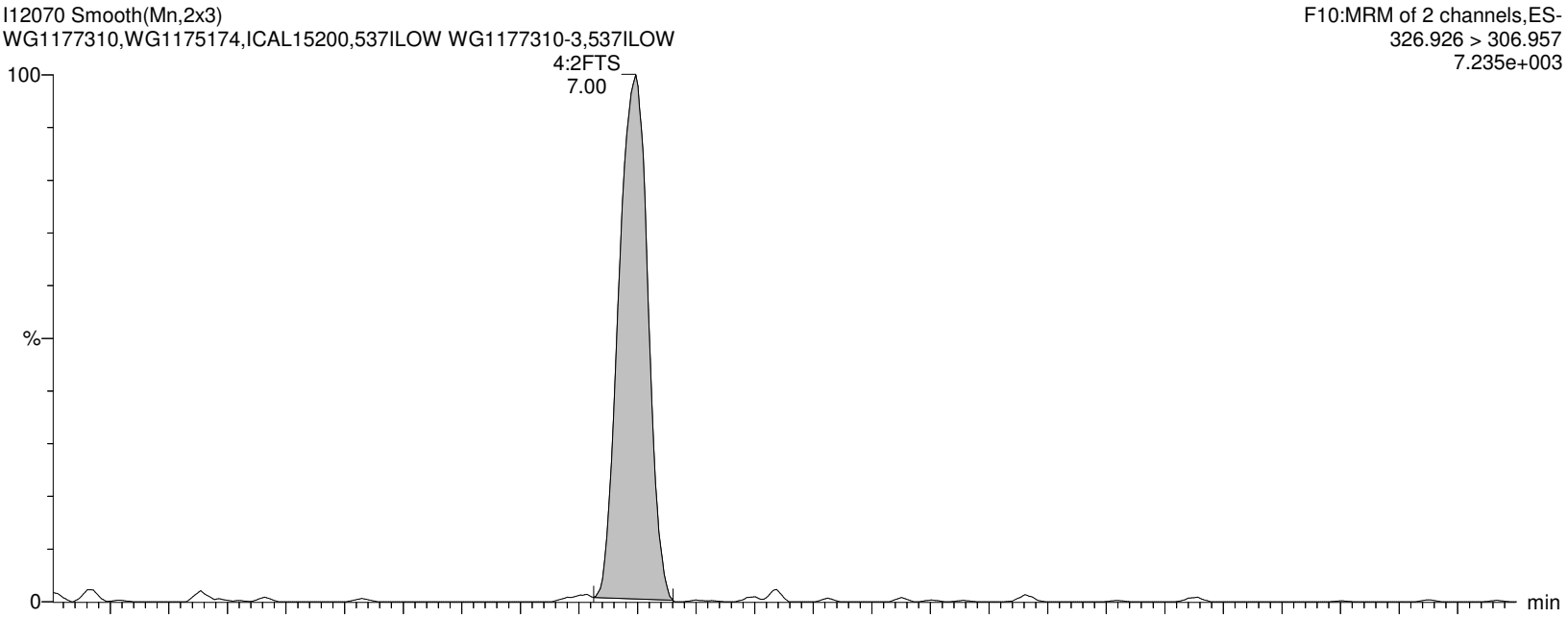
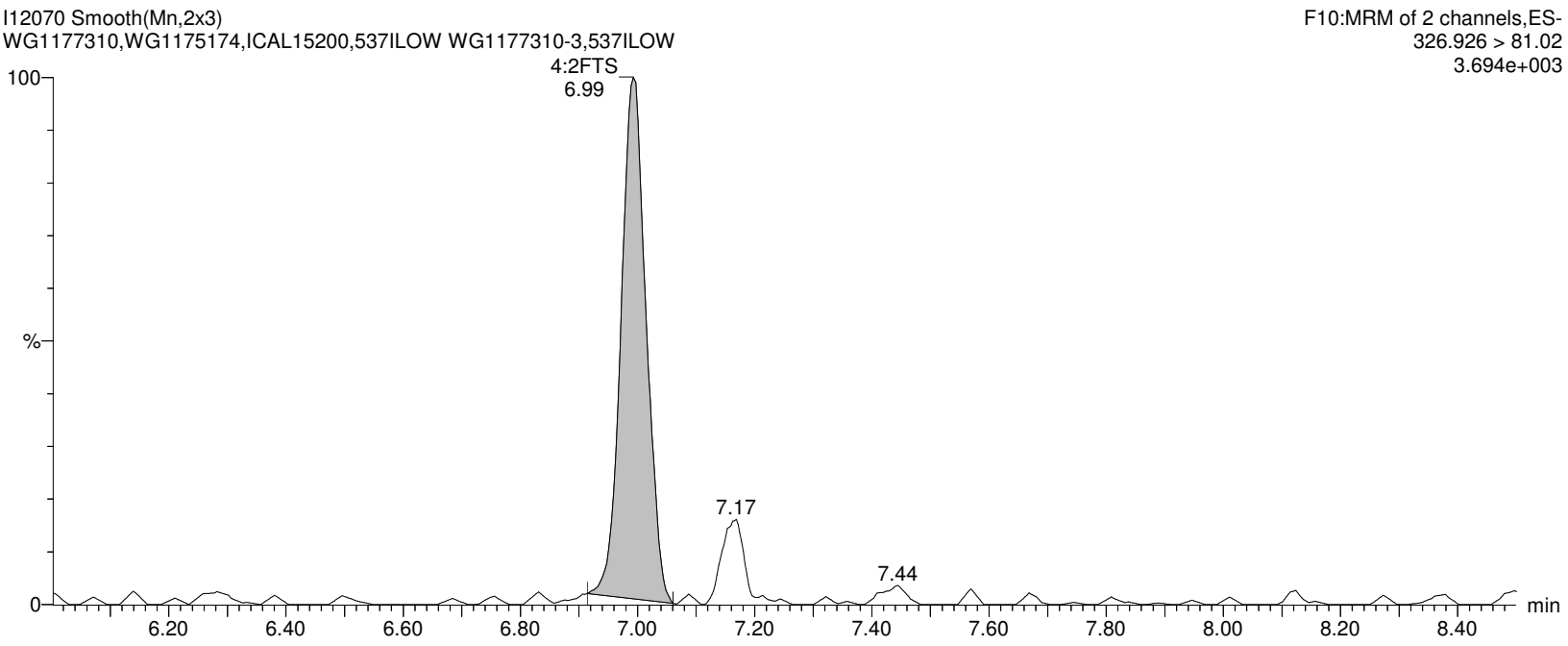
4:2FTS





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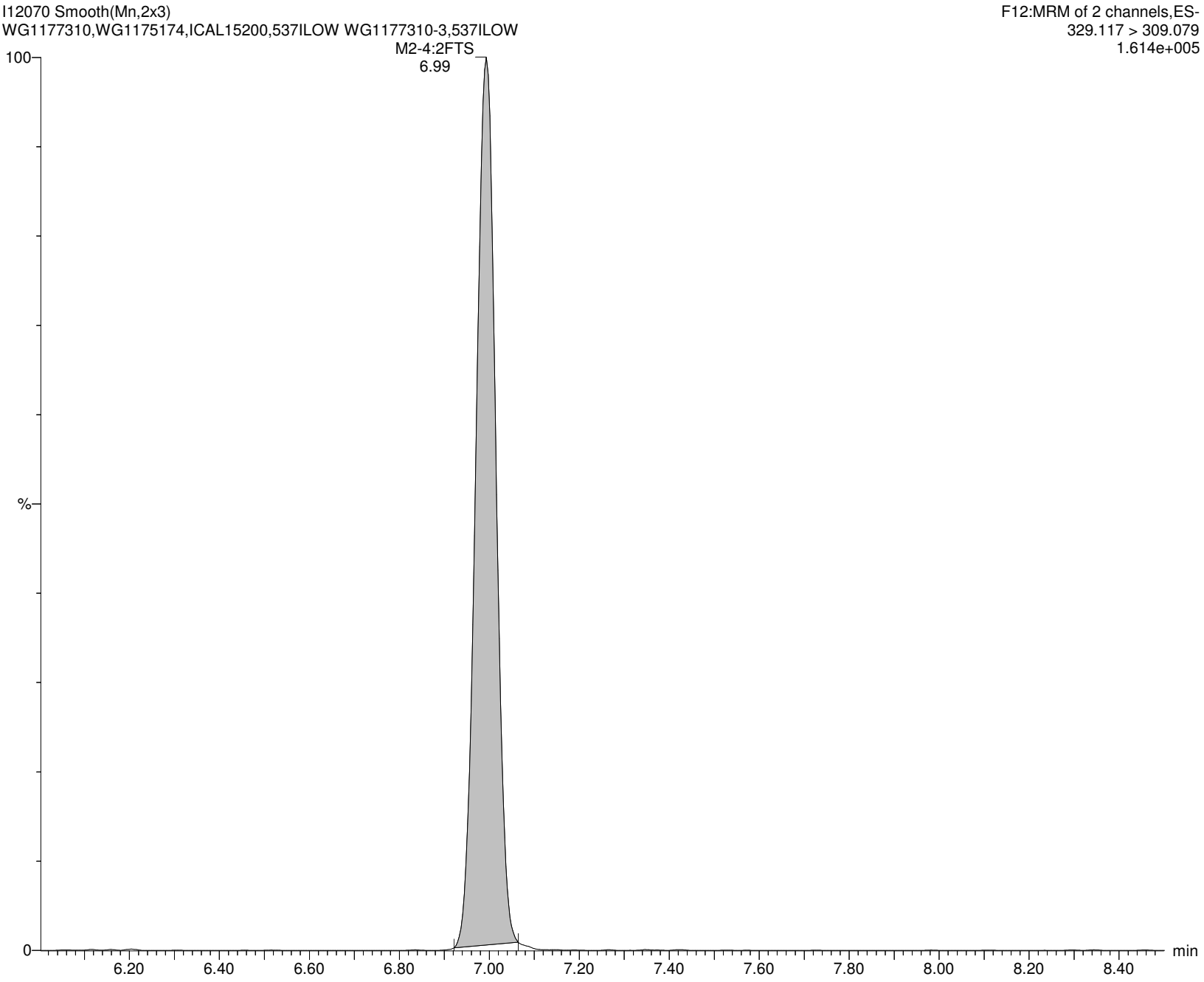
M2-4:2FTS



all concentration units in (ng/mL)

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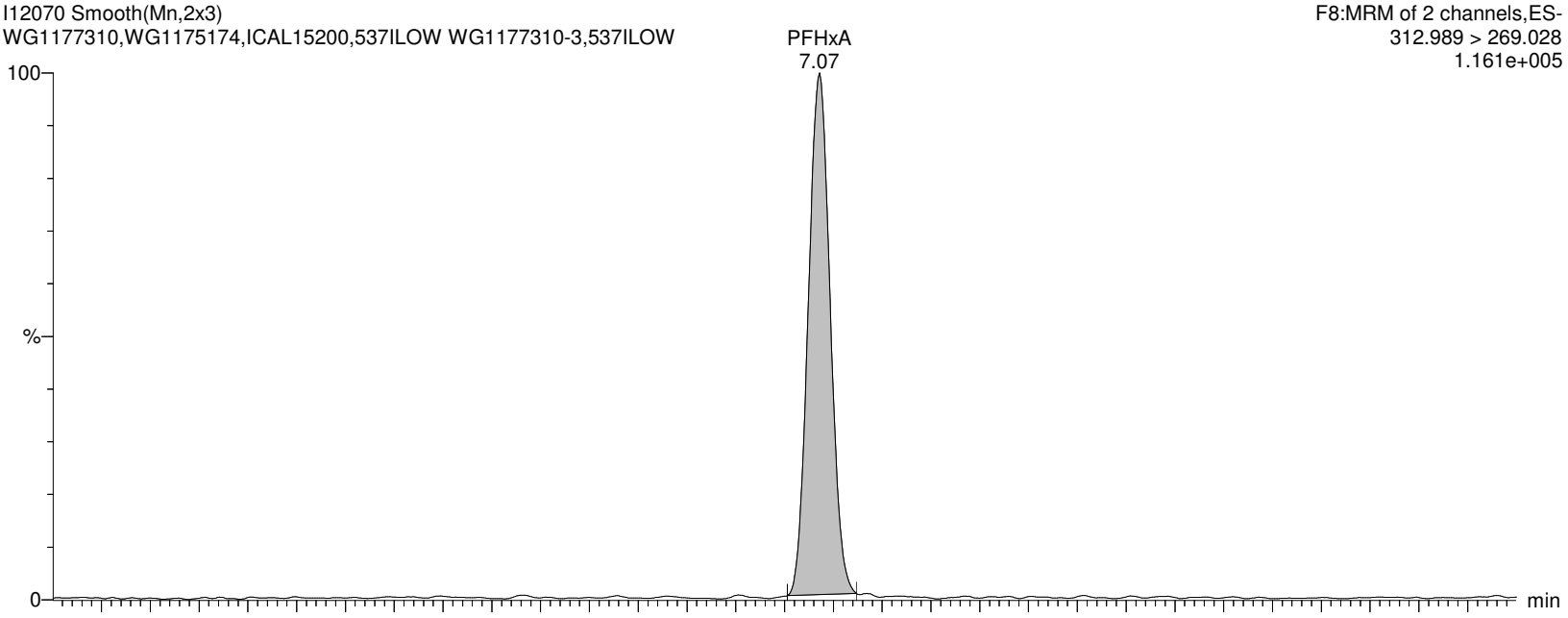
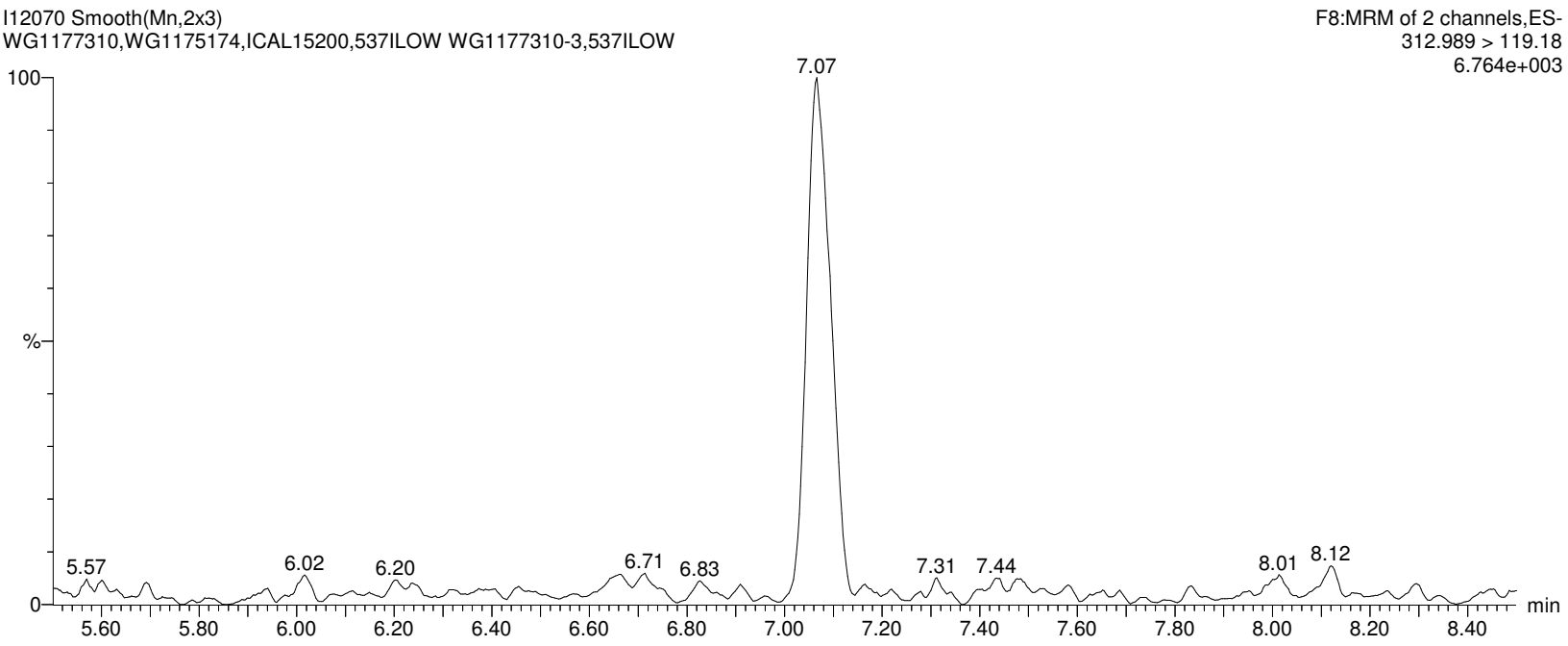
PFHxA





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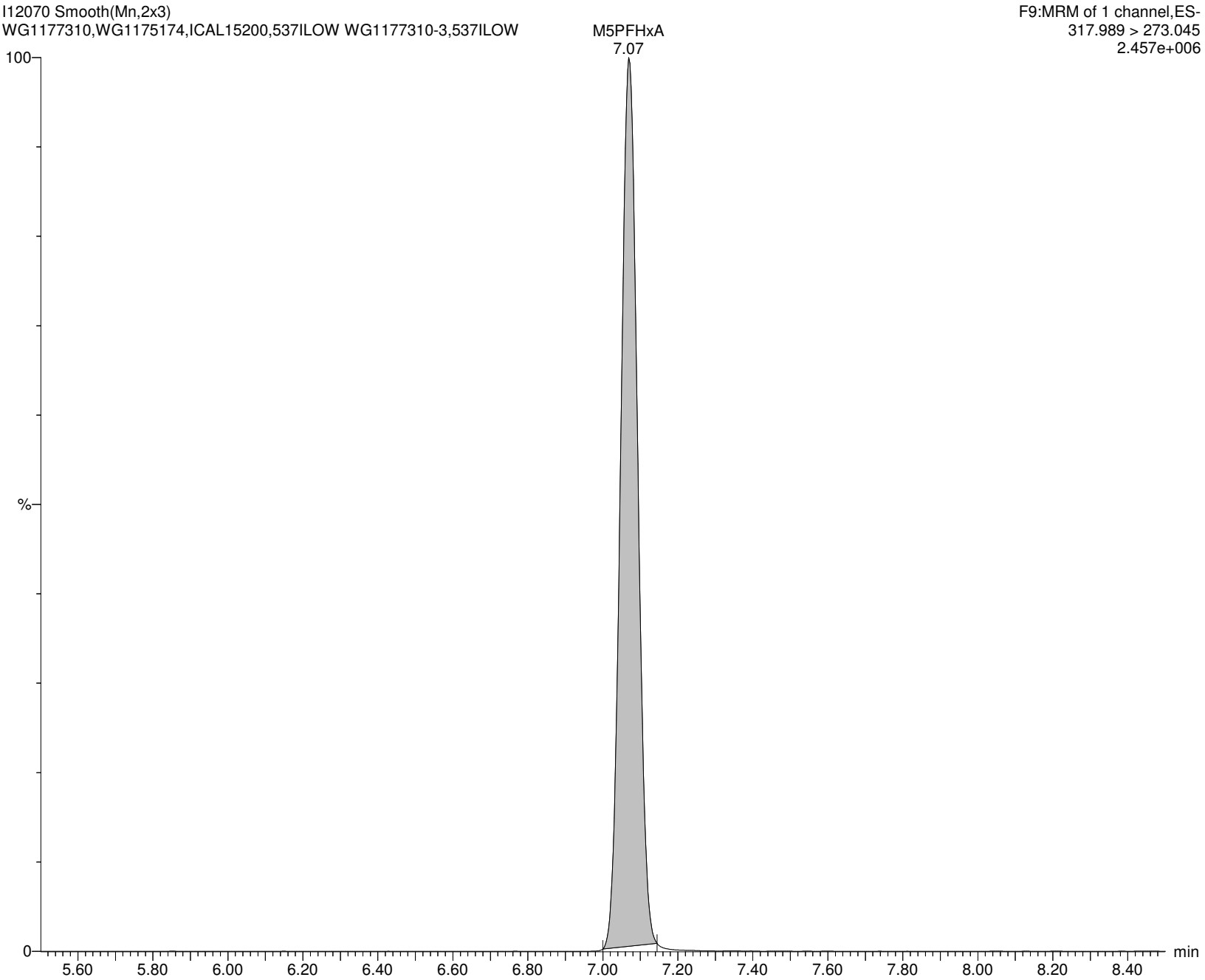

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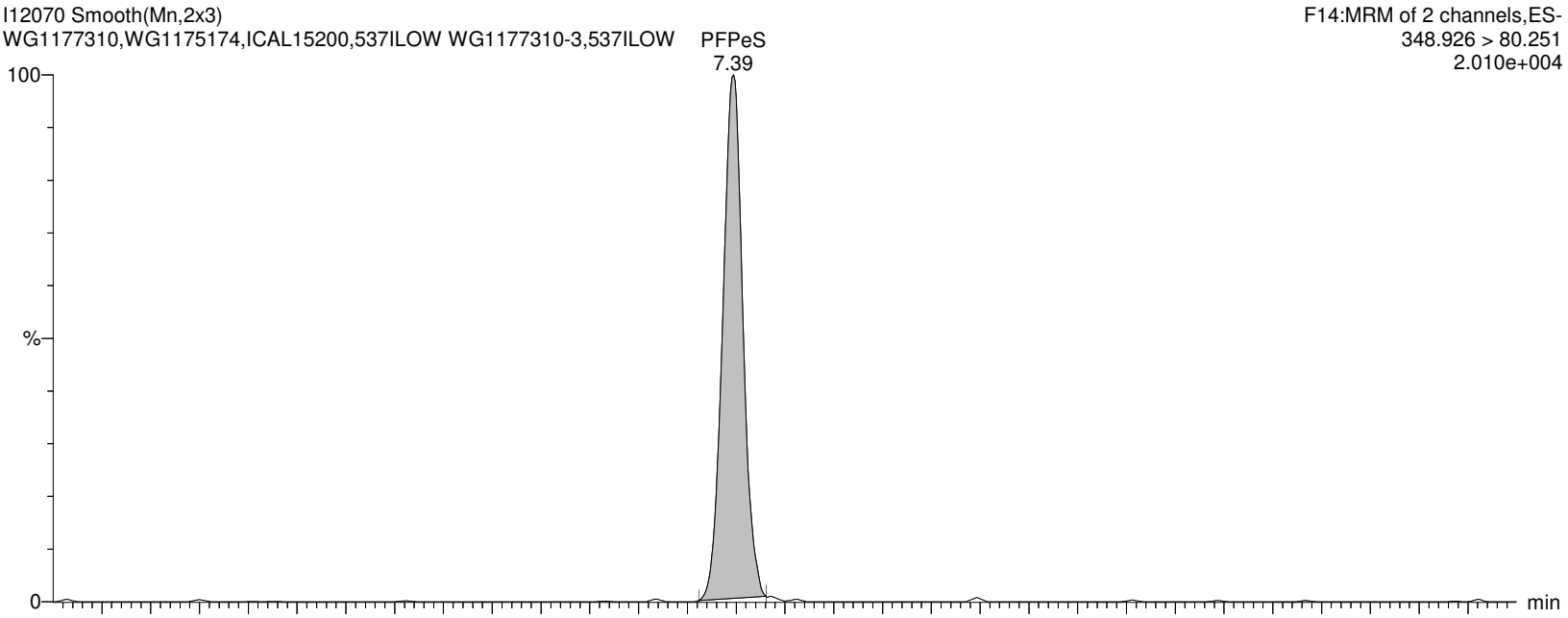
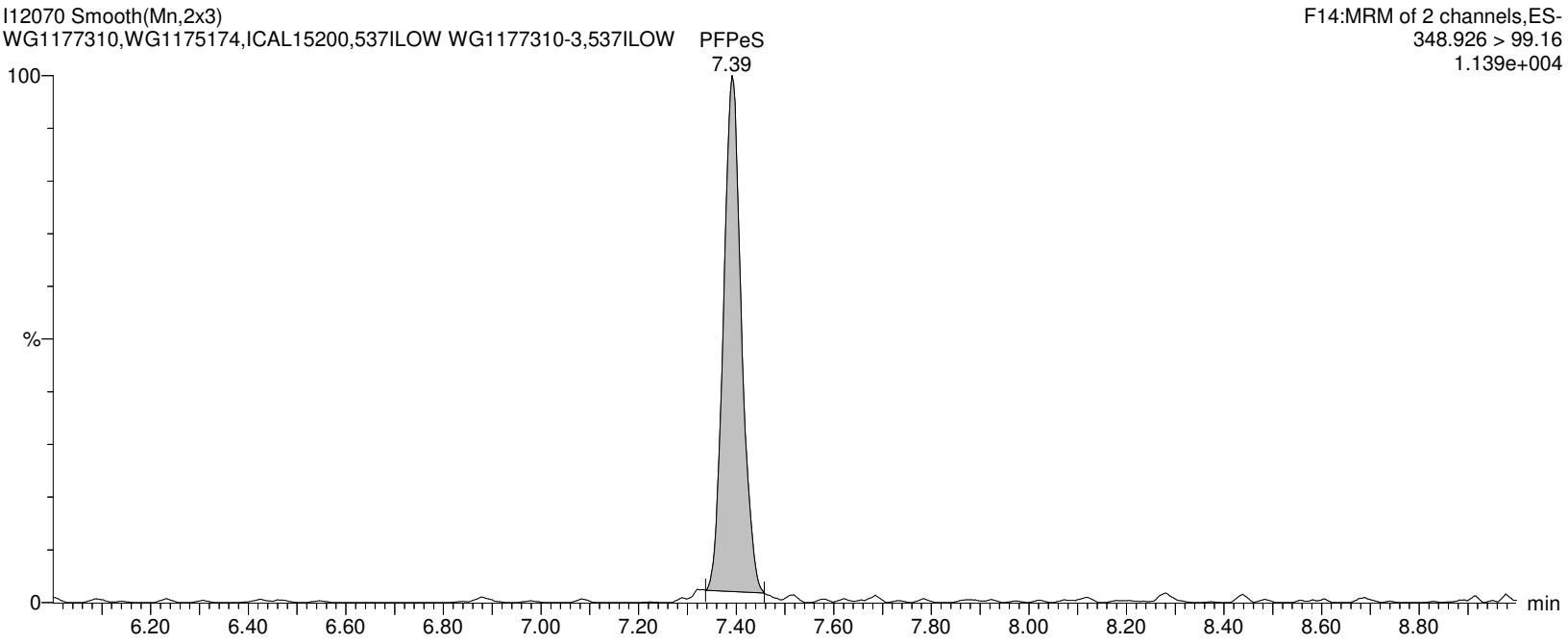
PFPeS





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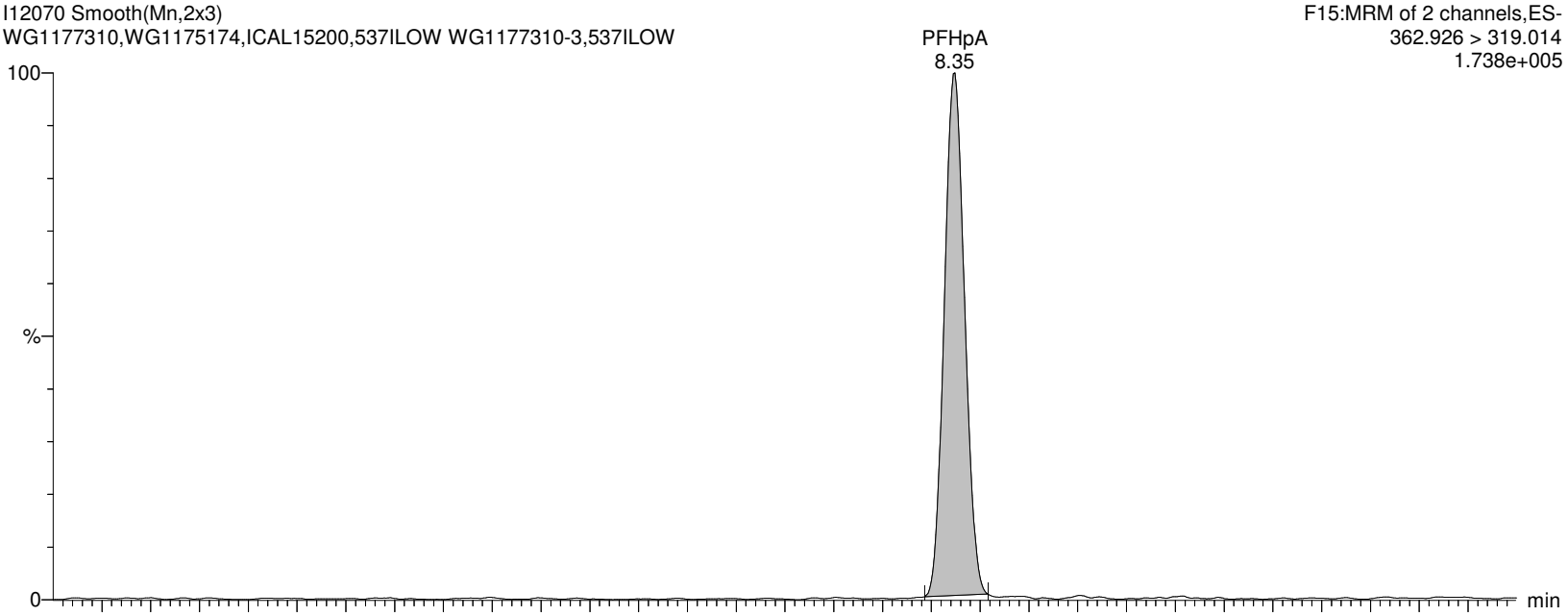

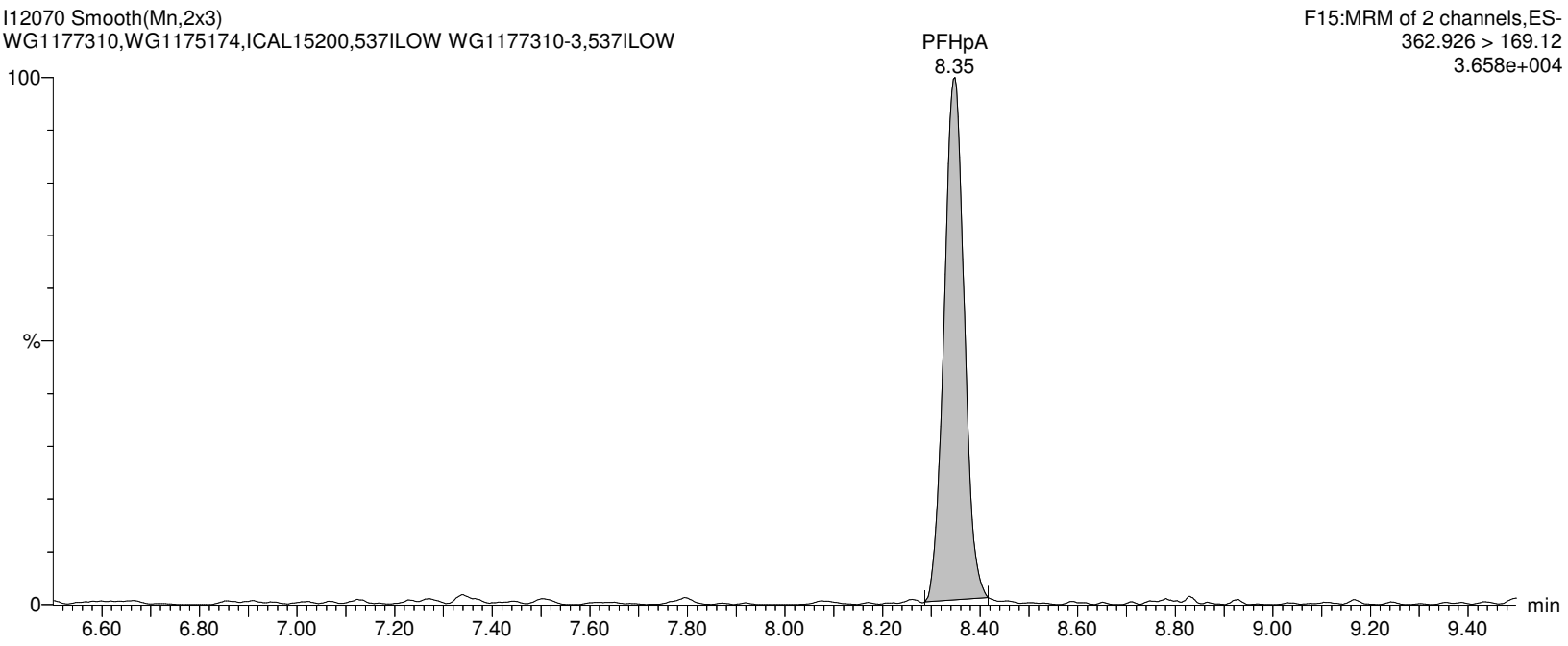

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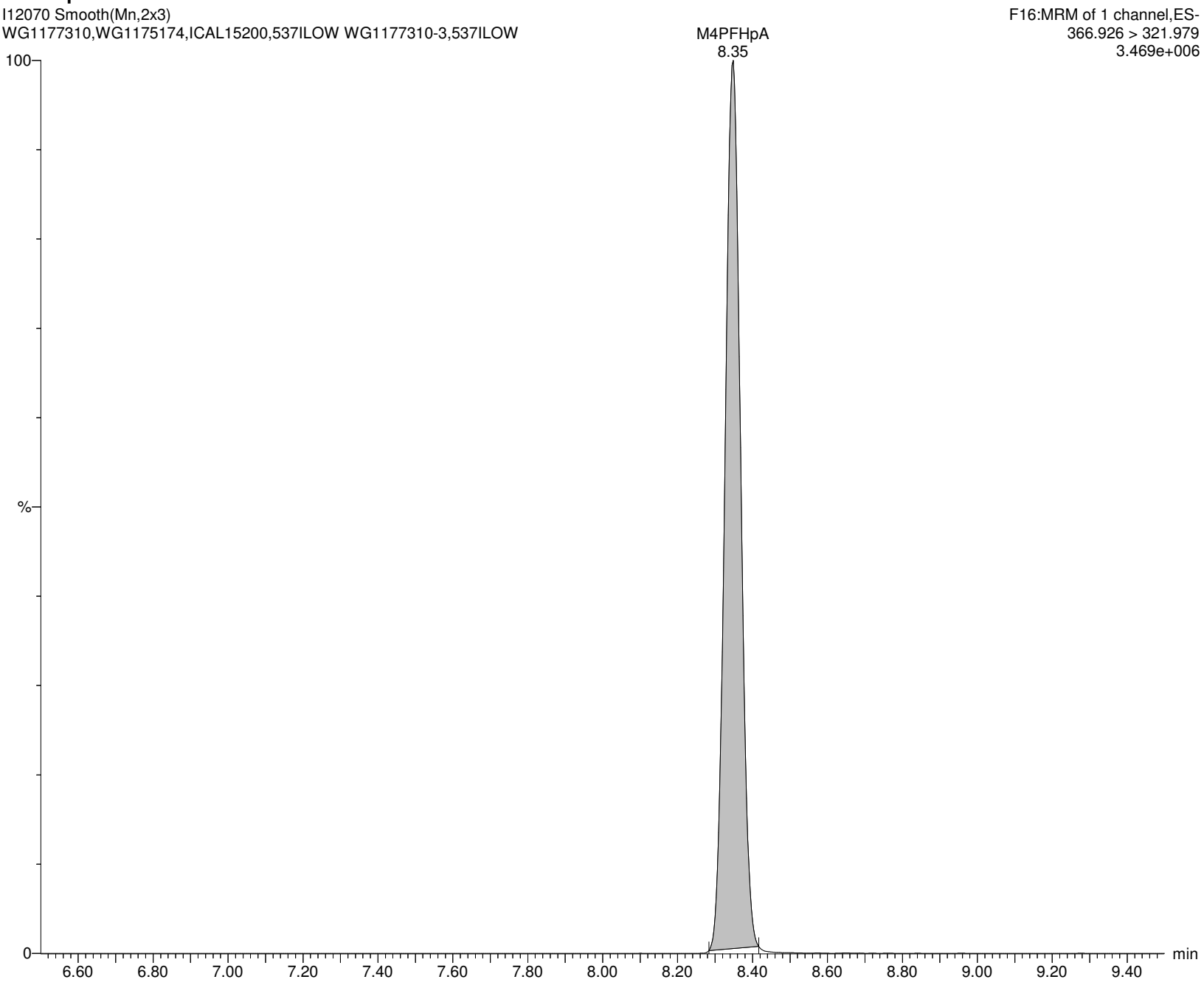

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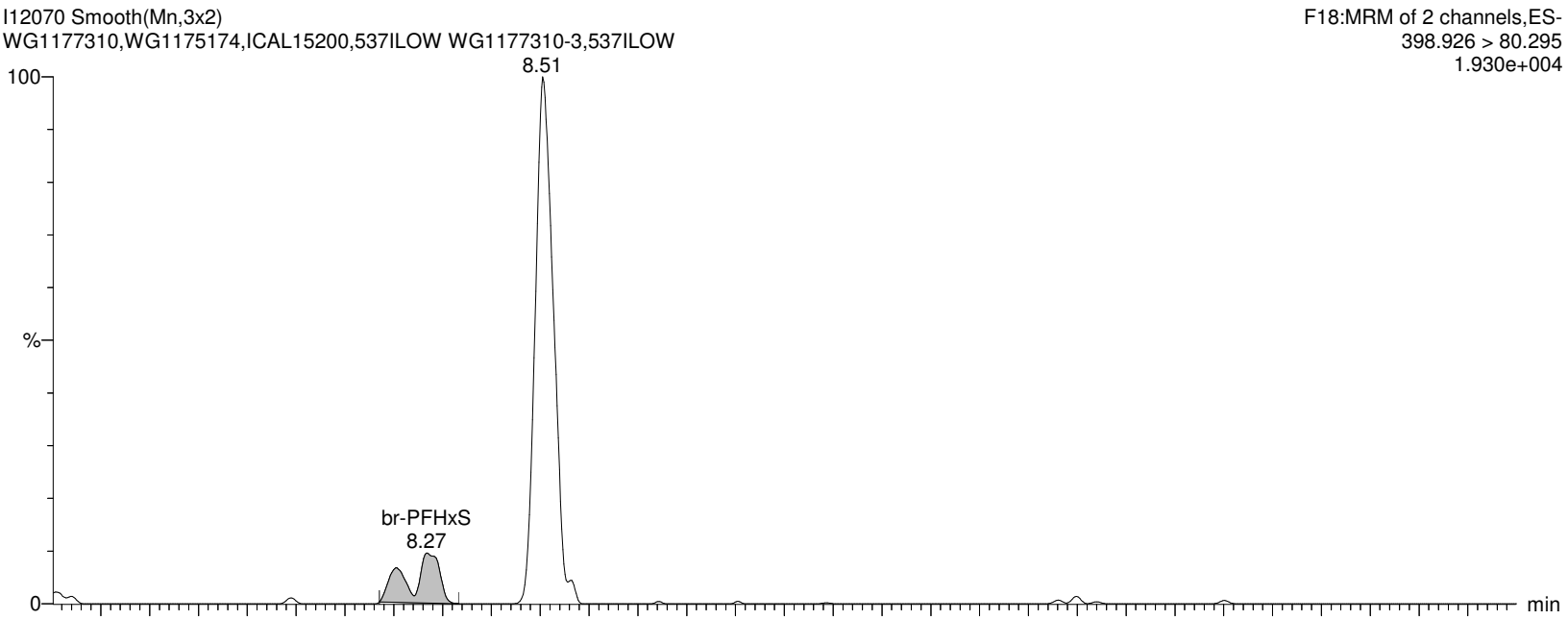

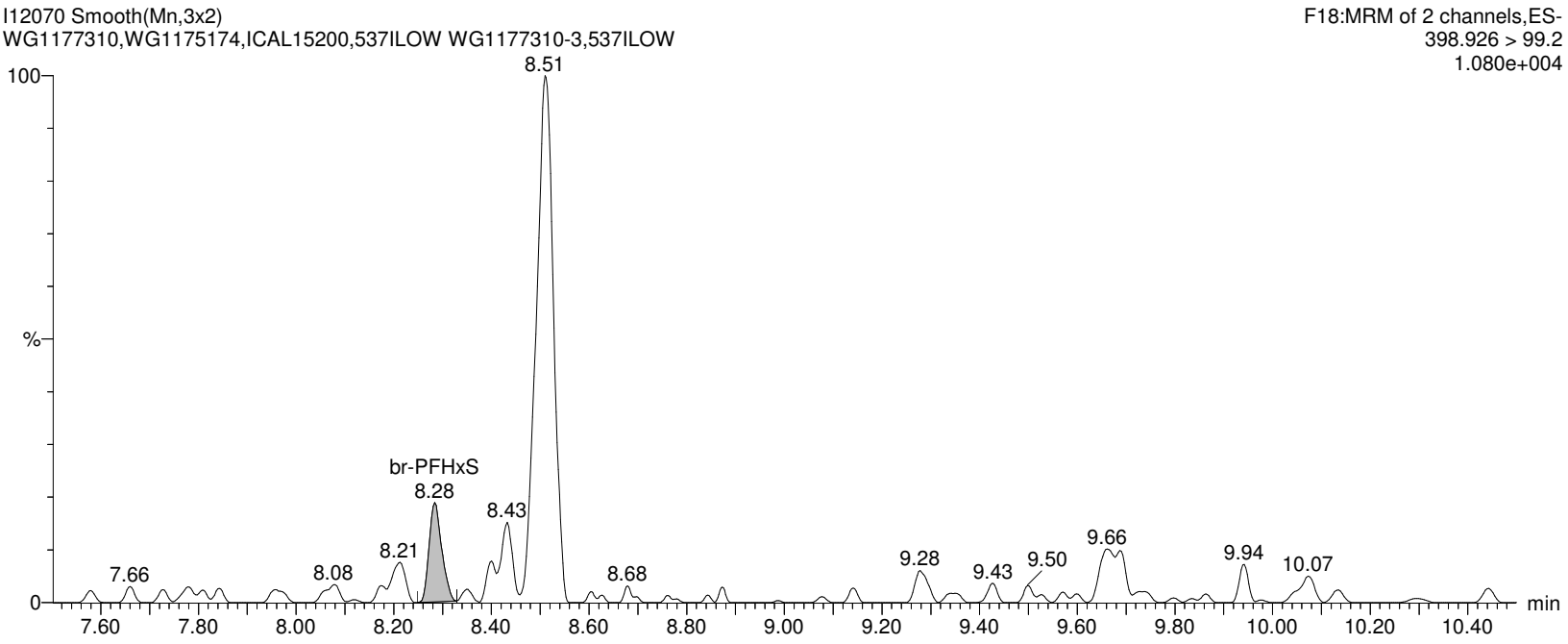

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Name: I12070
ID: WG1177310-3,537ILOW
Date: 08-Nov-2018
Time: 15:57:47
Description: WG1177310,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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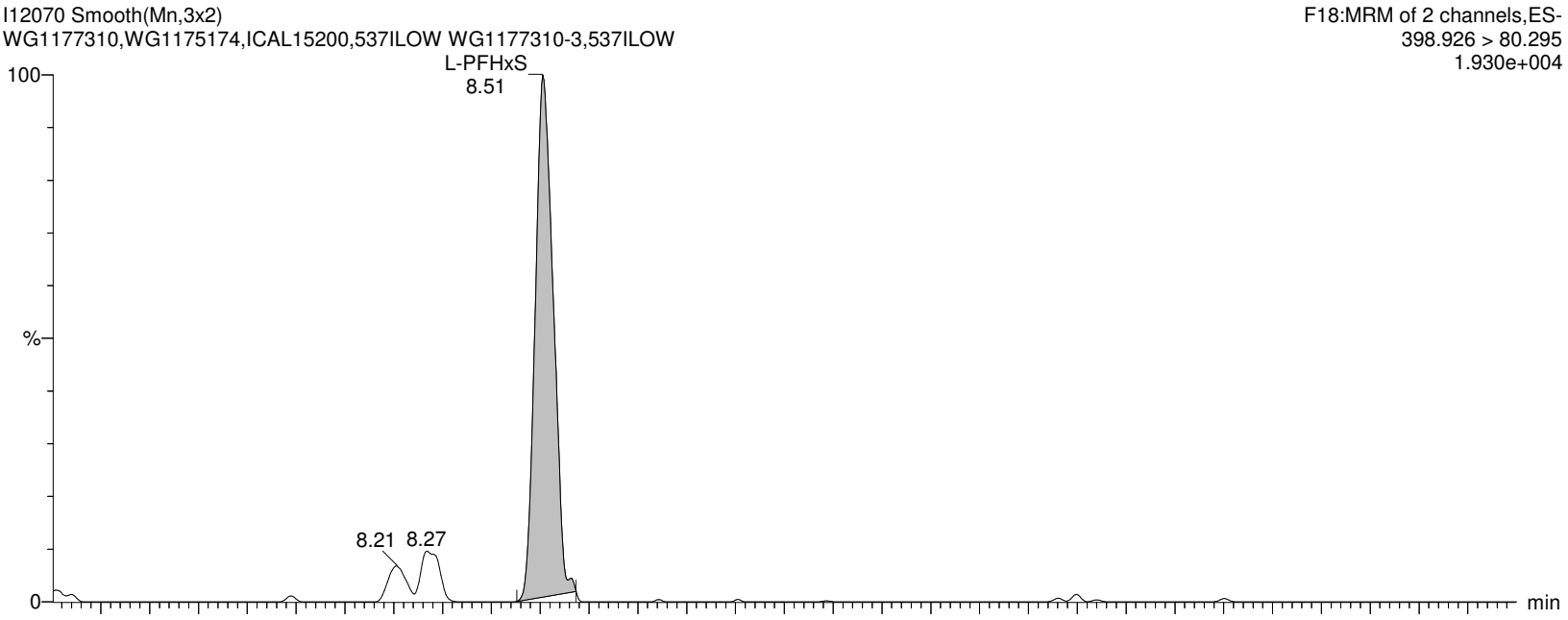

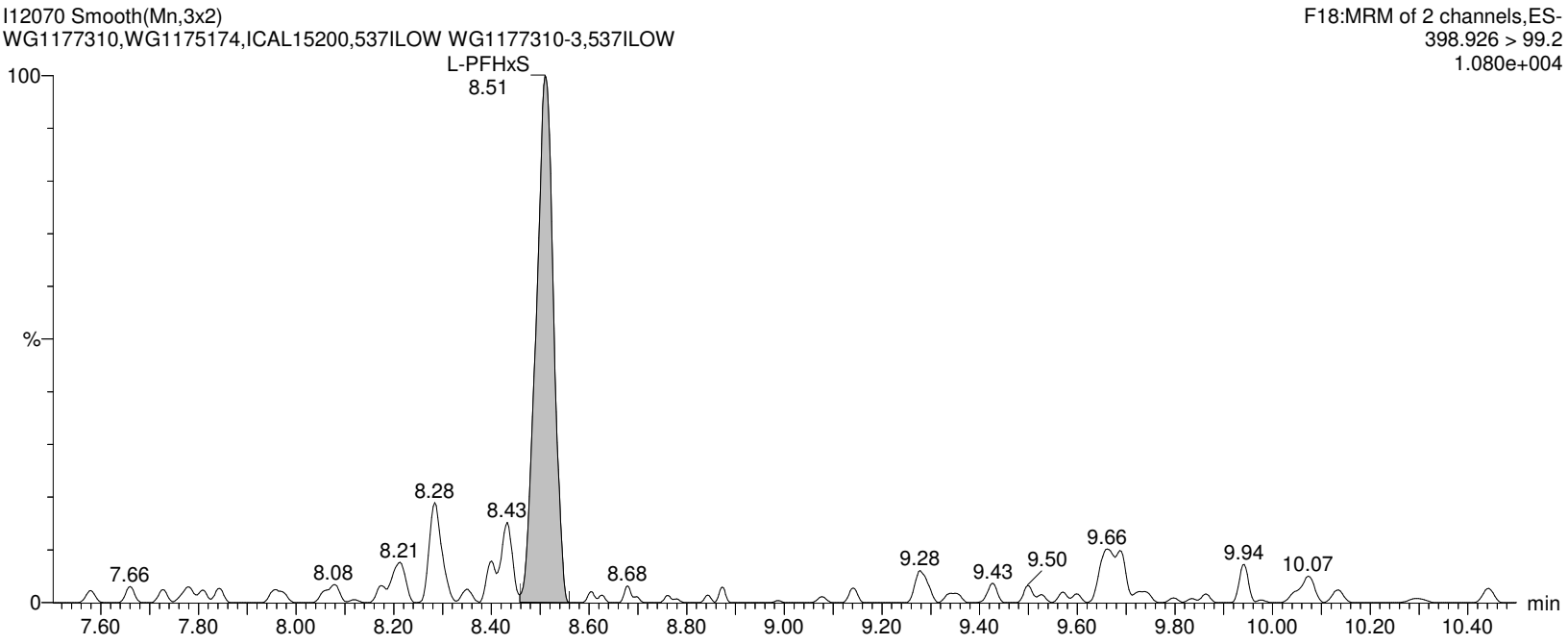

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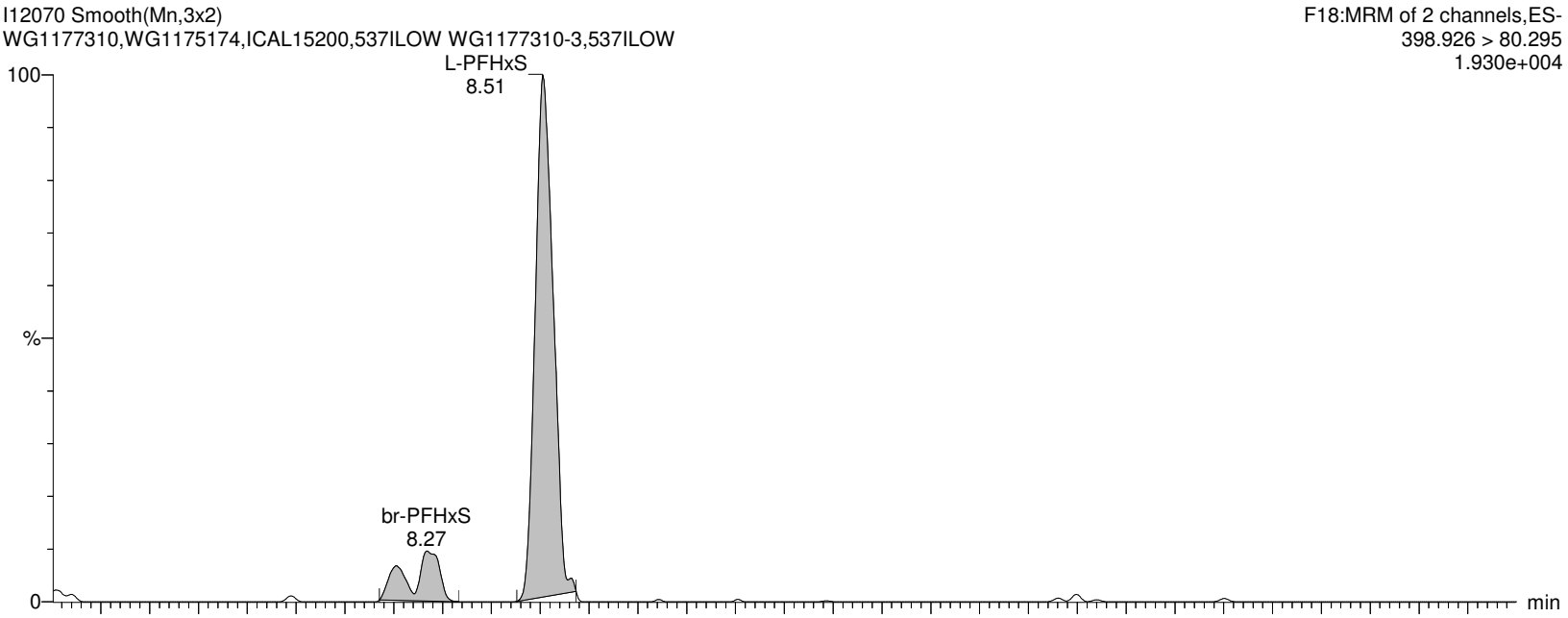

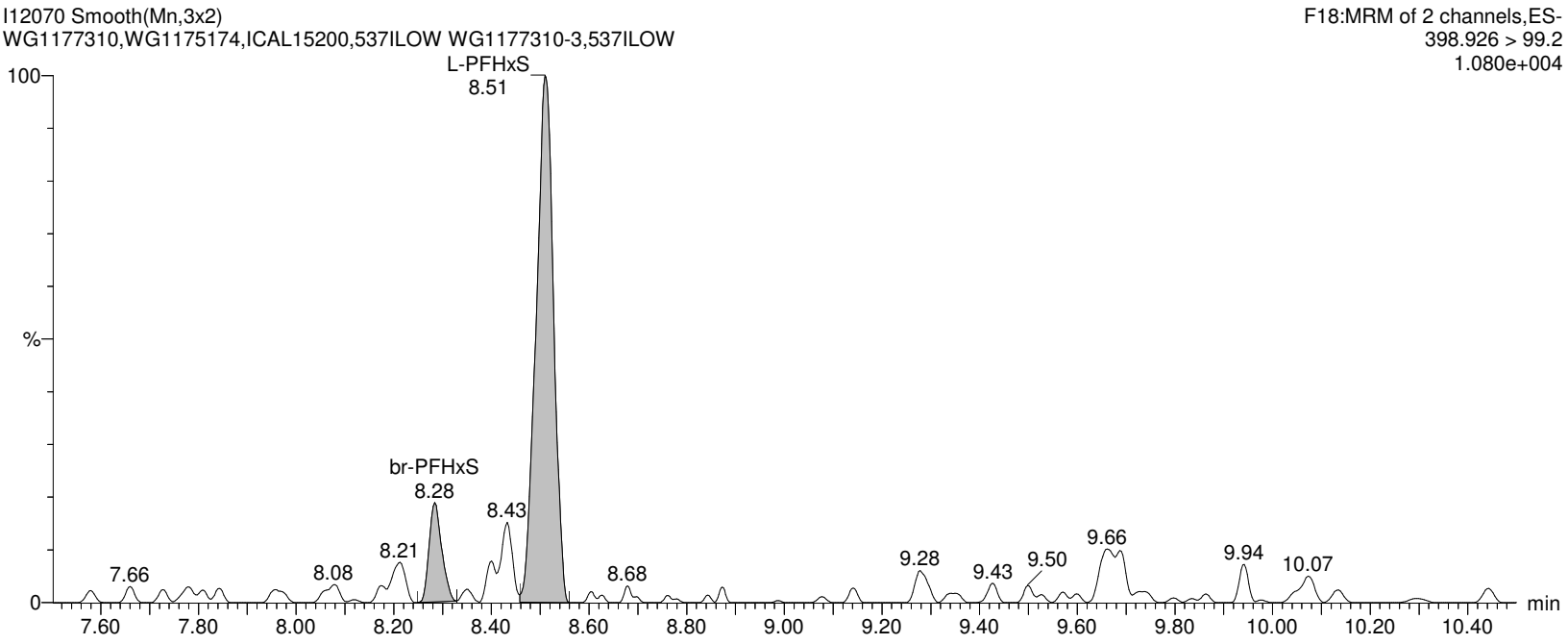

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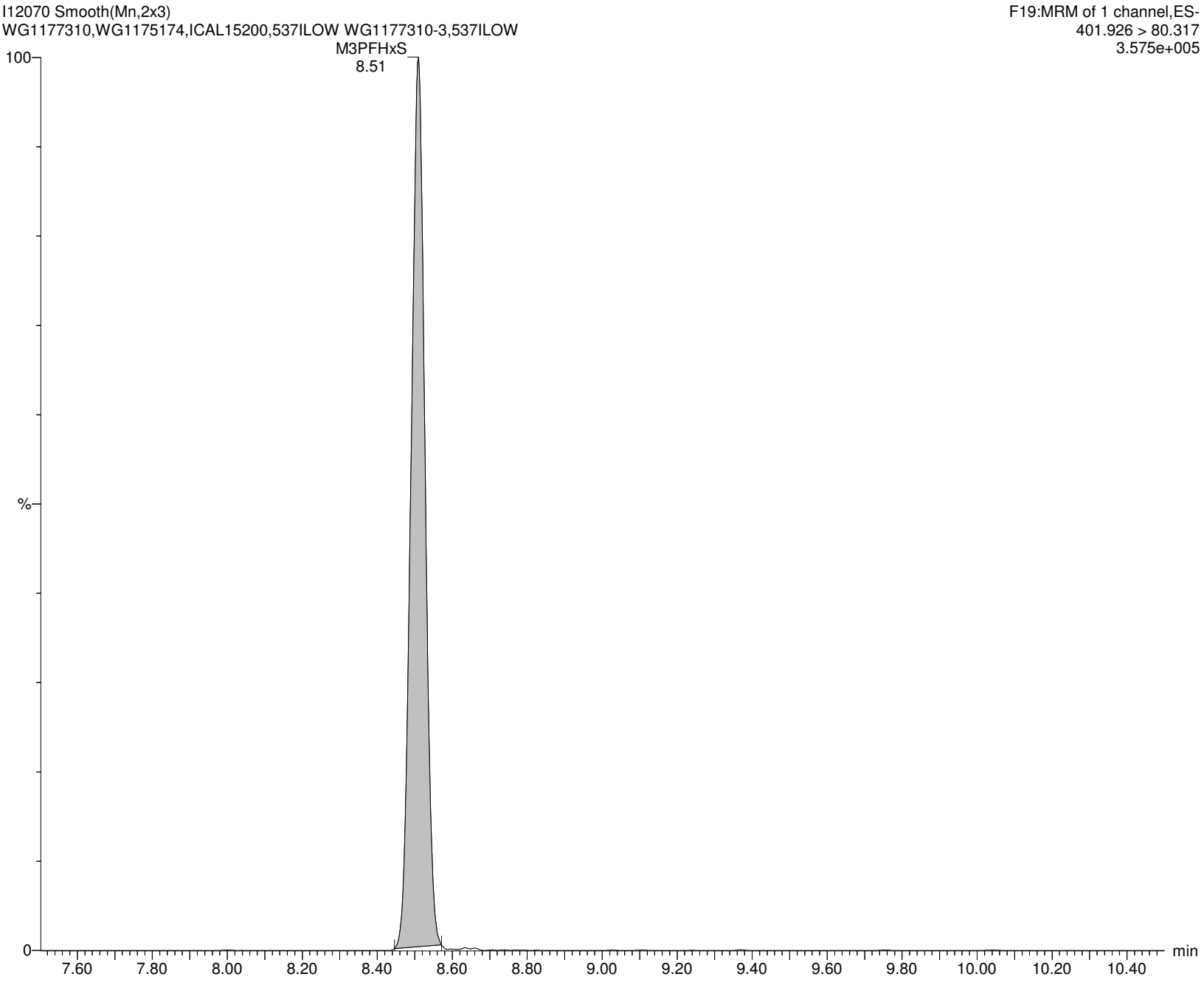

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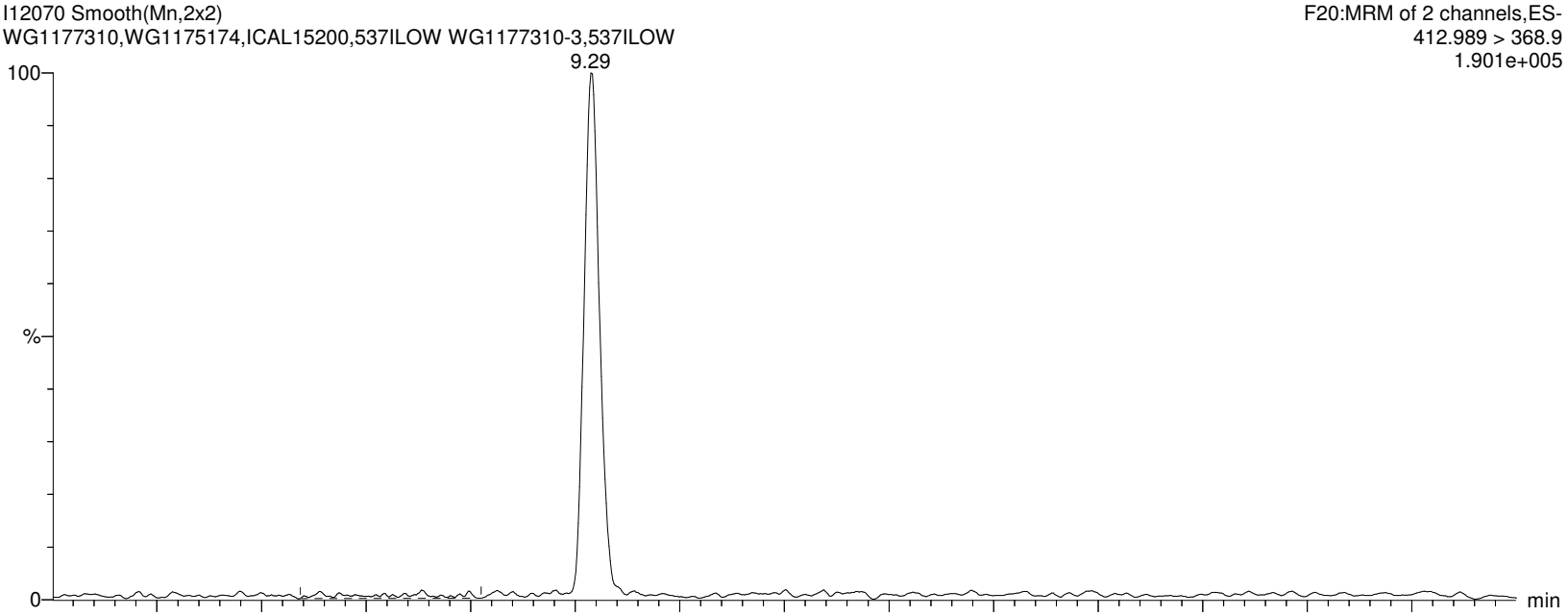

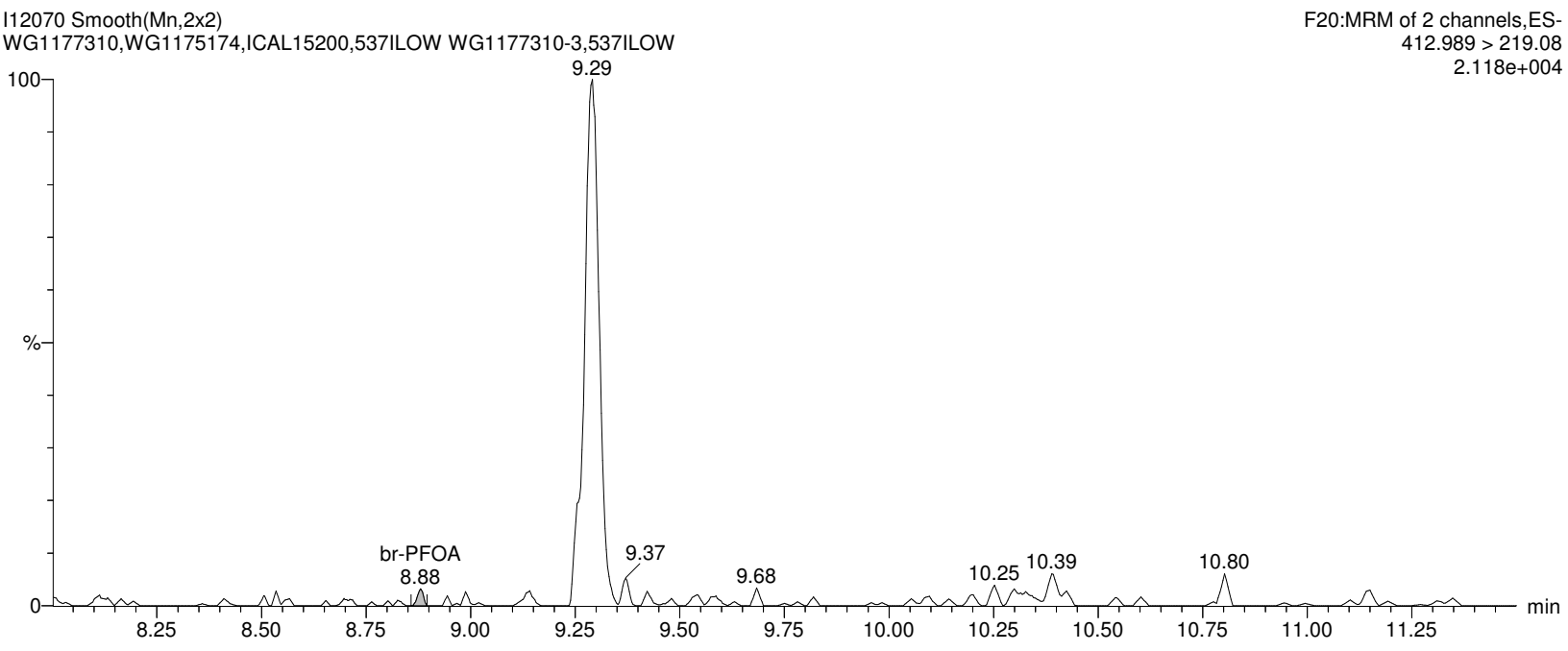

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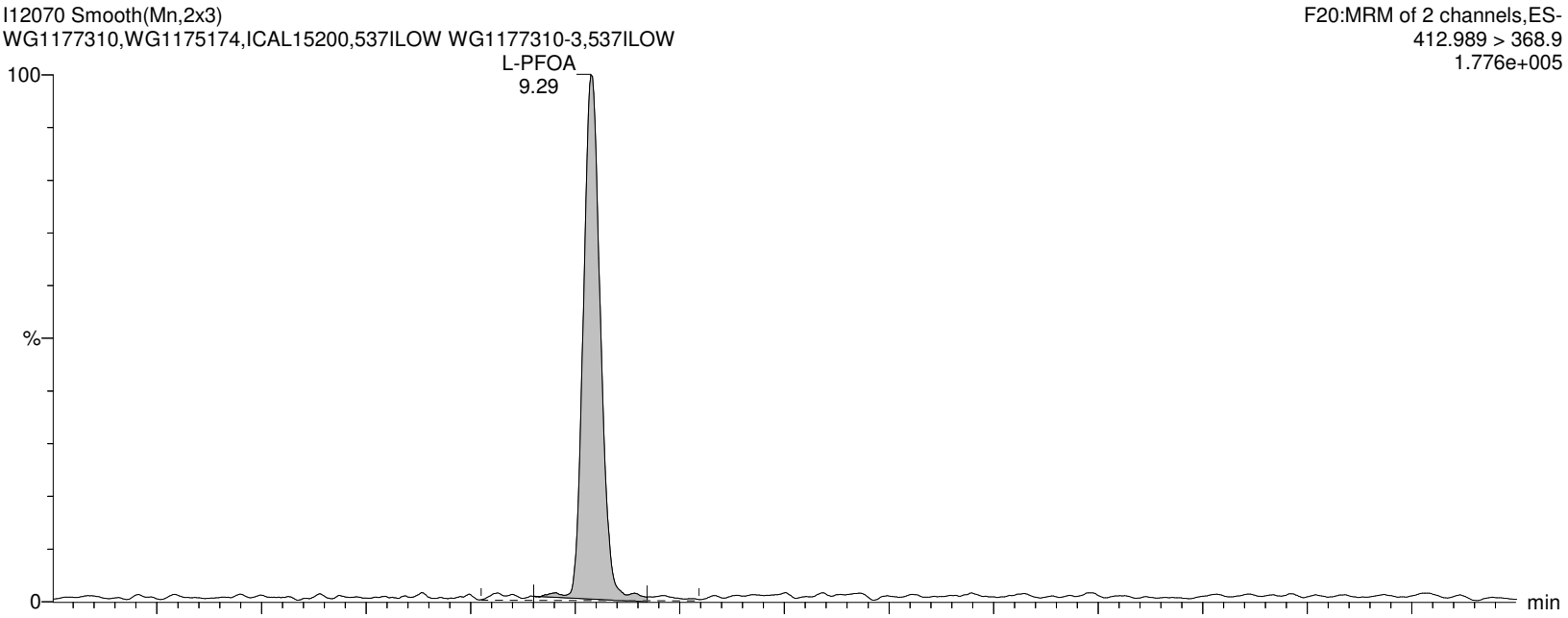

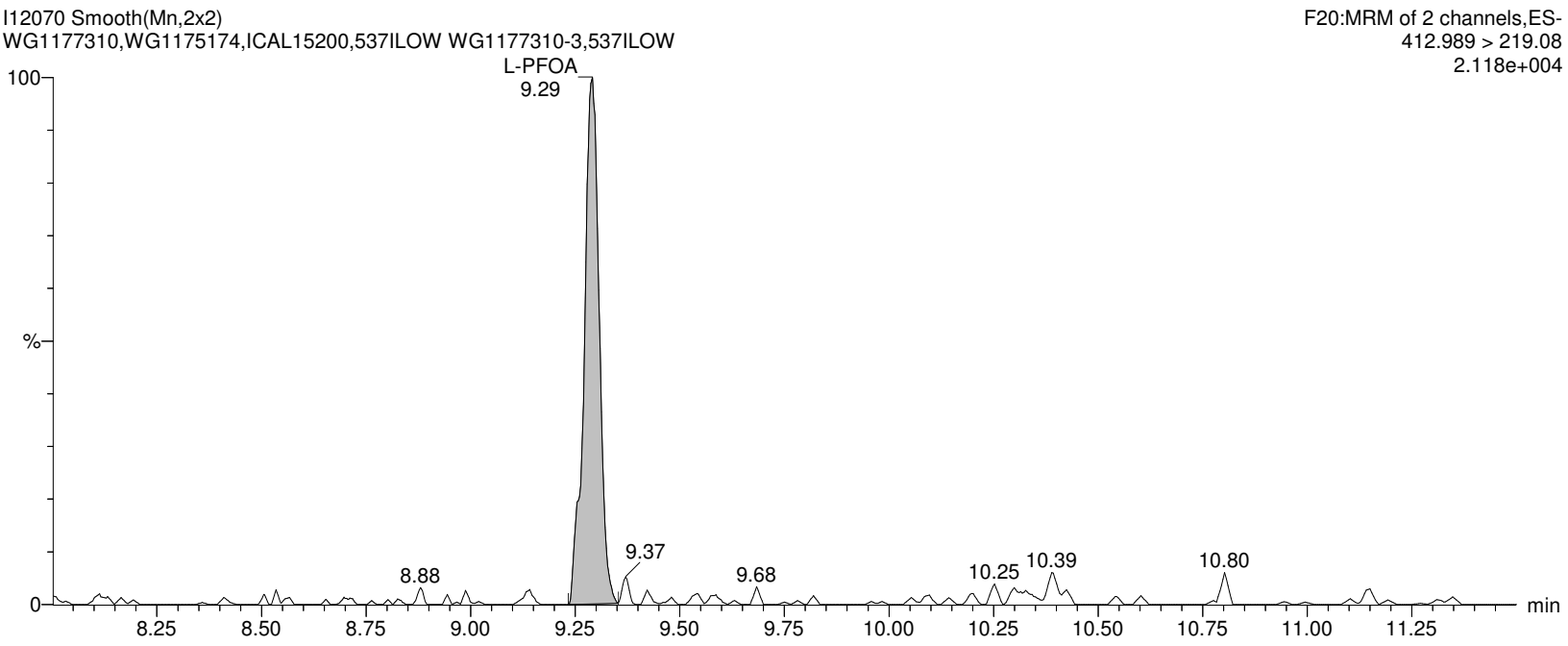

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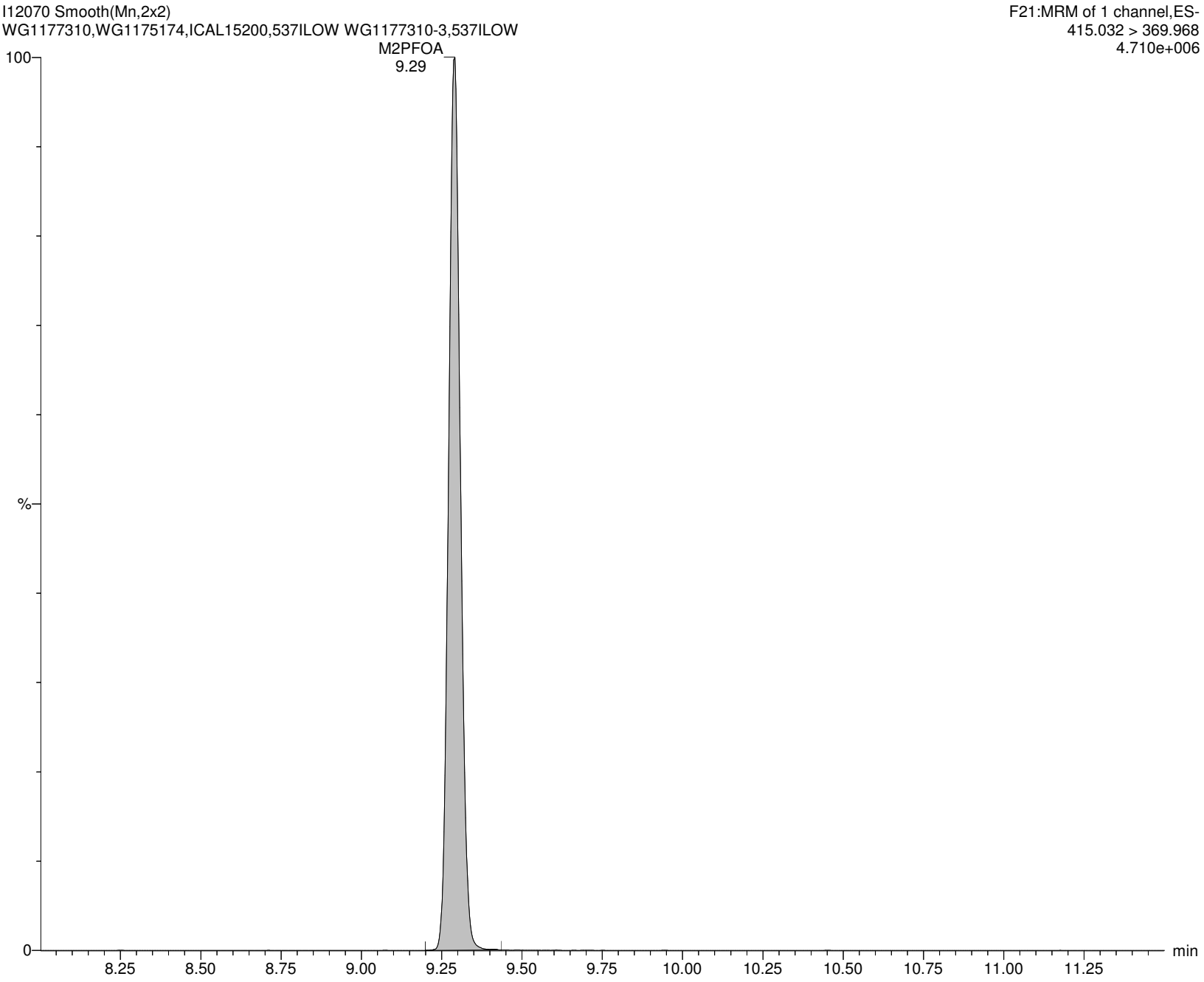

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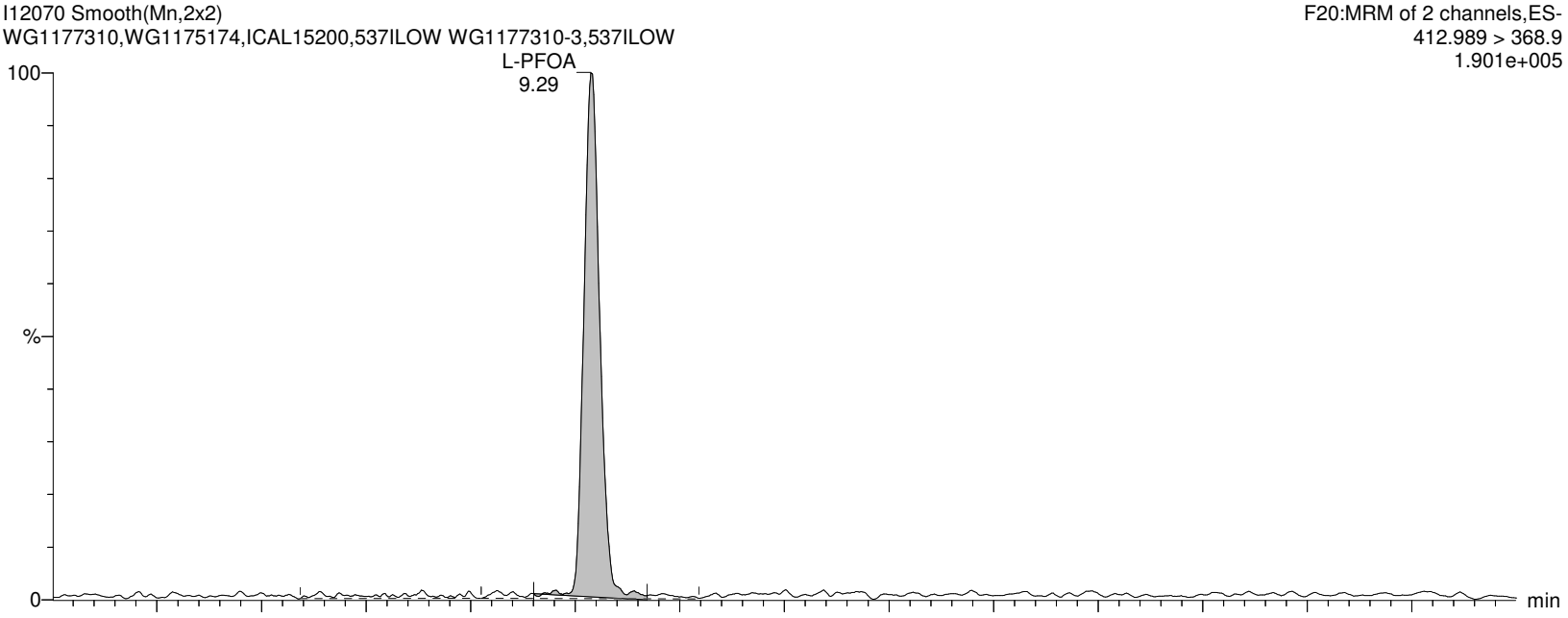

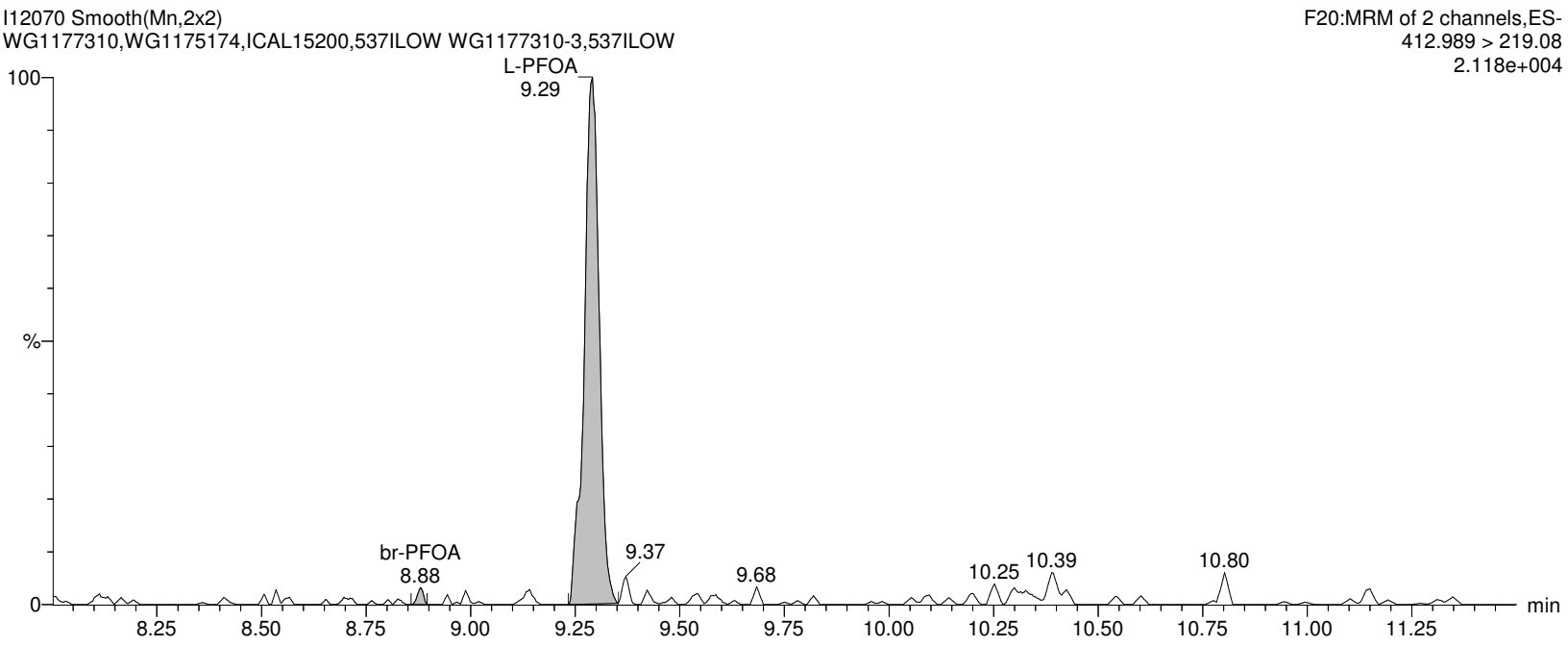

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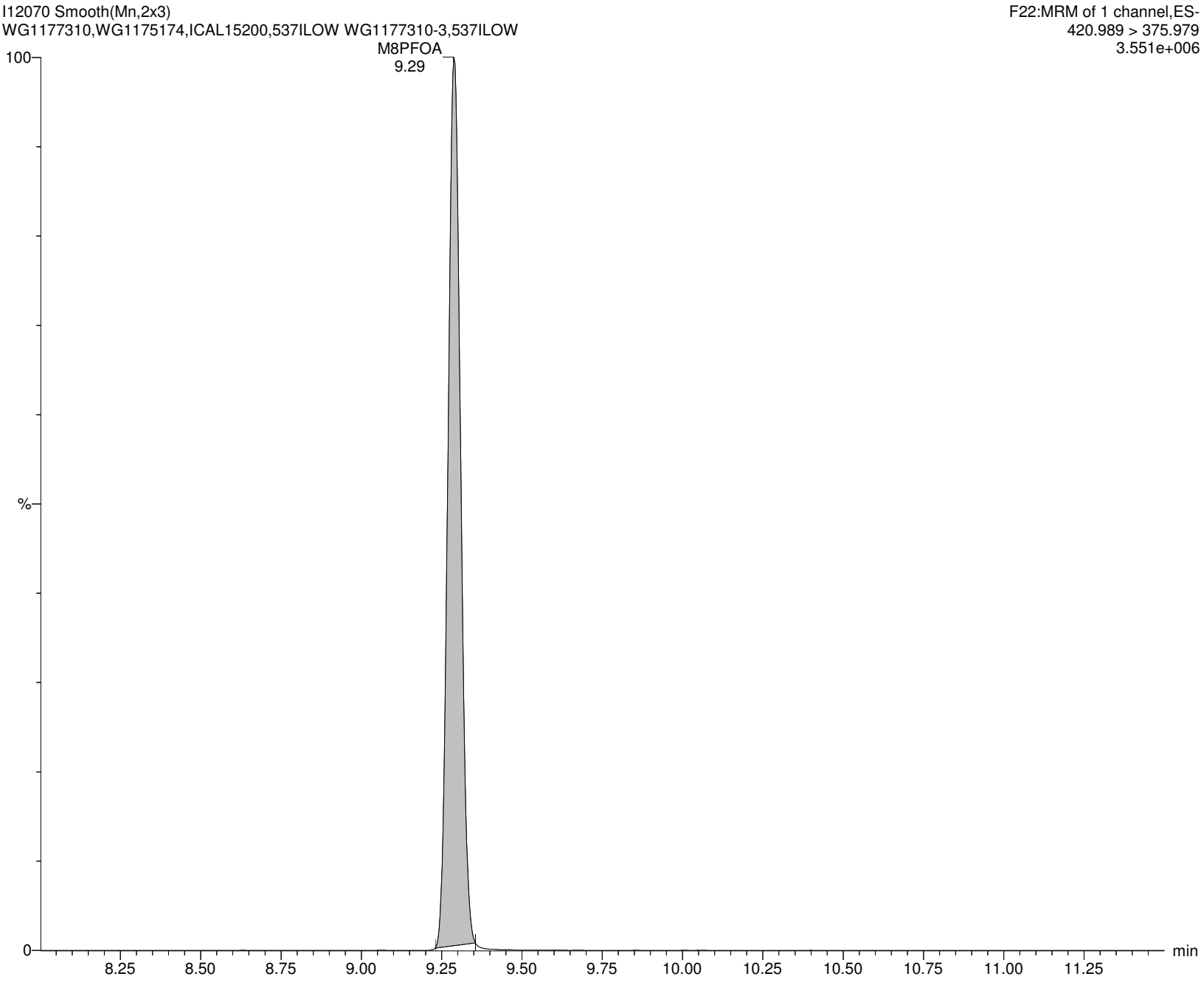

all concentration units in (ng/mL)

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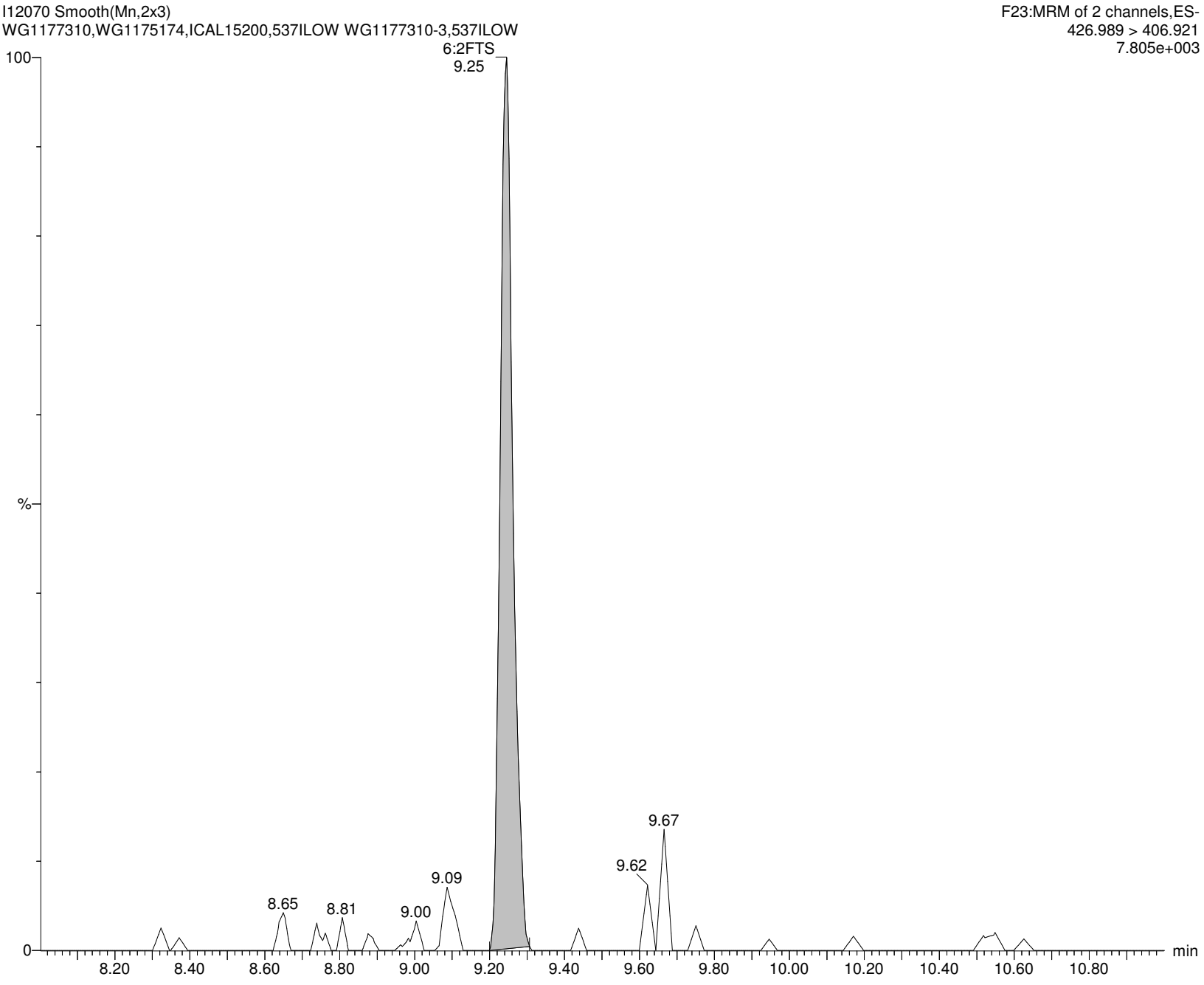

all concentration units in (ng/mL)

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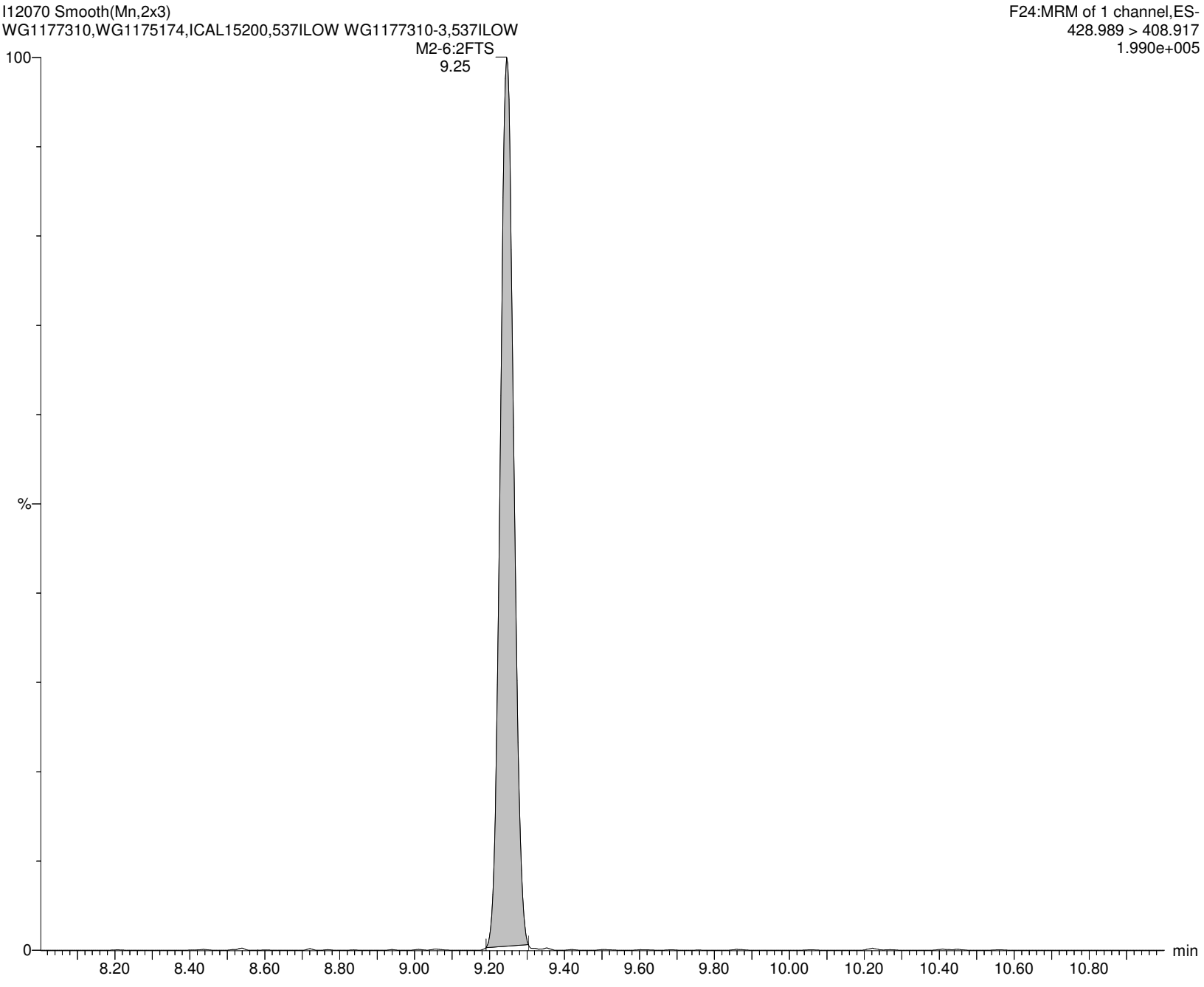

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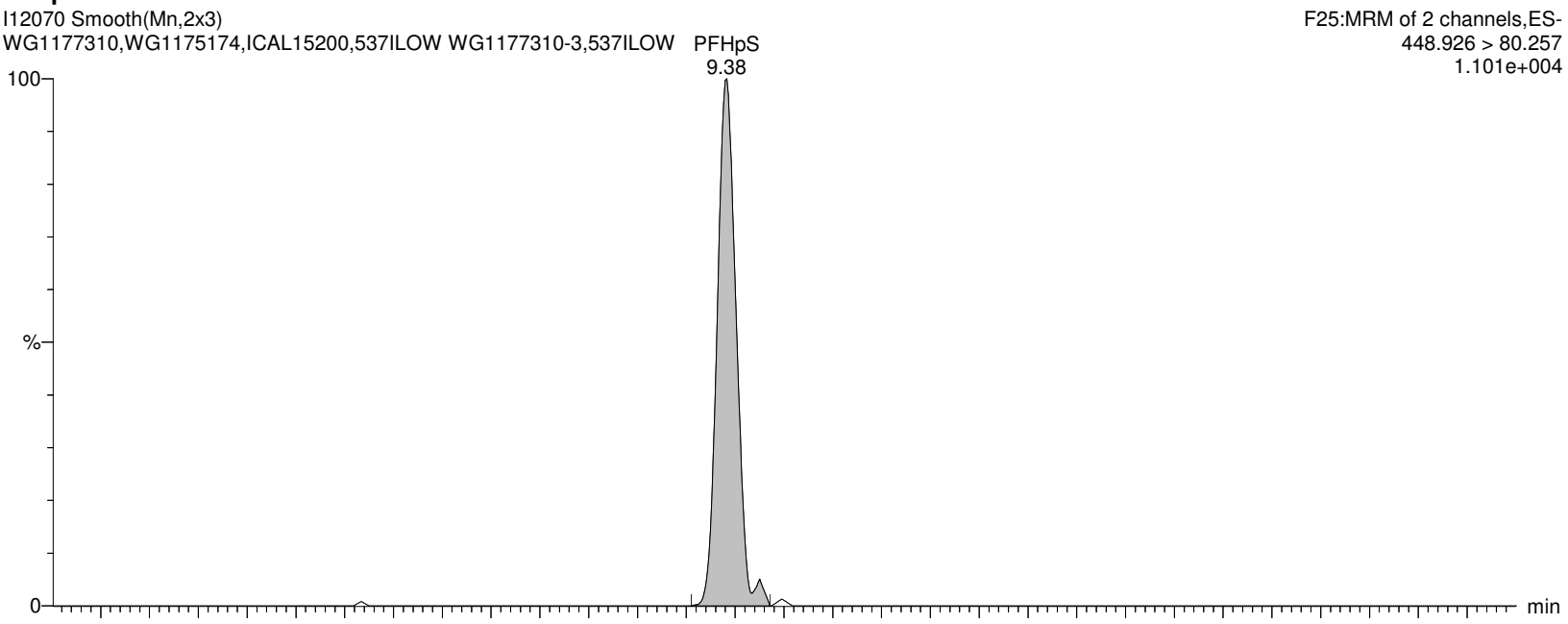

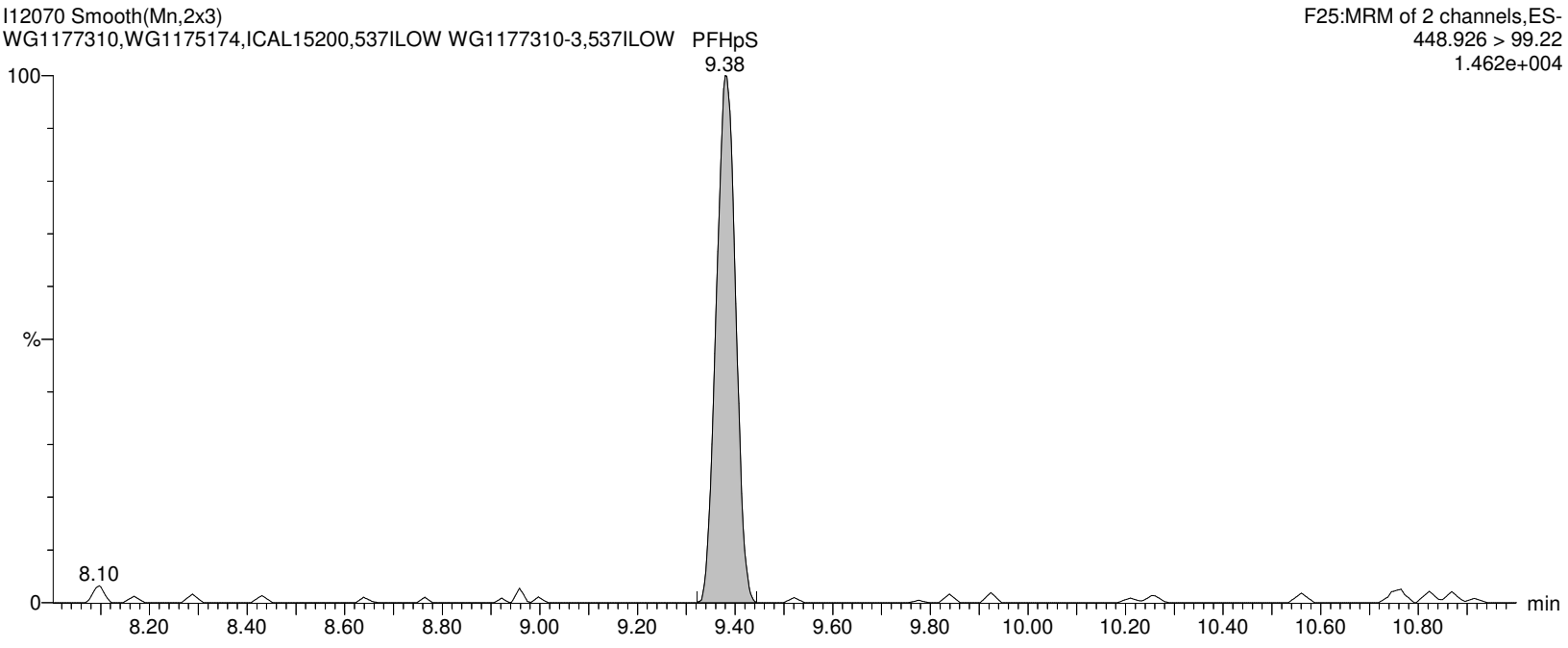

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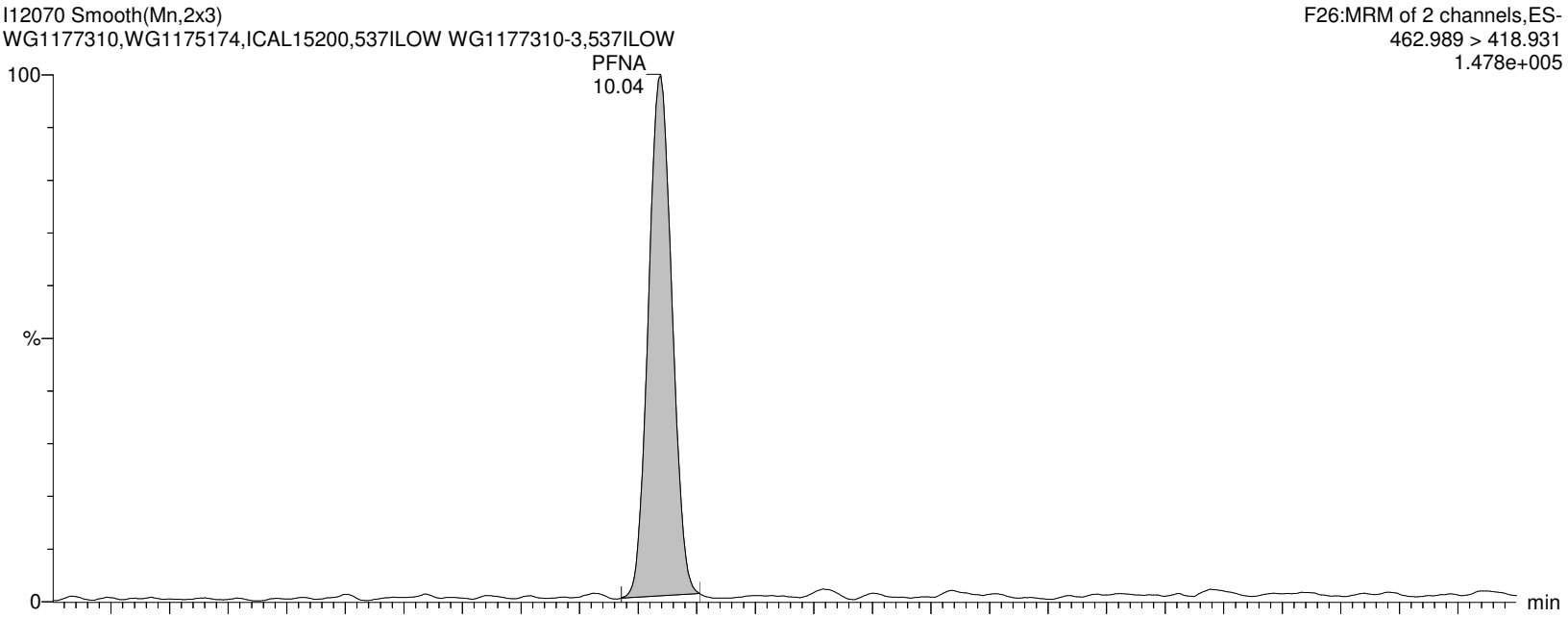

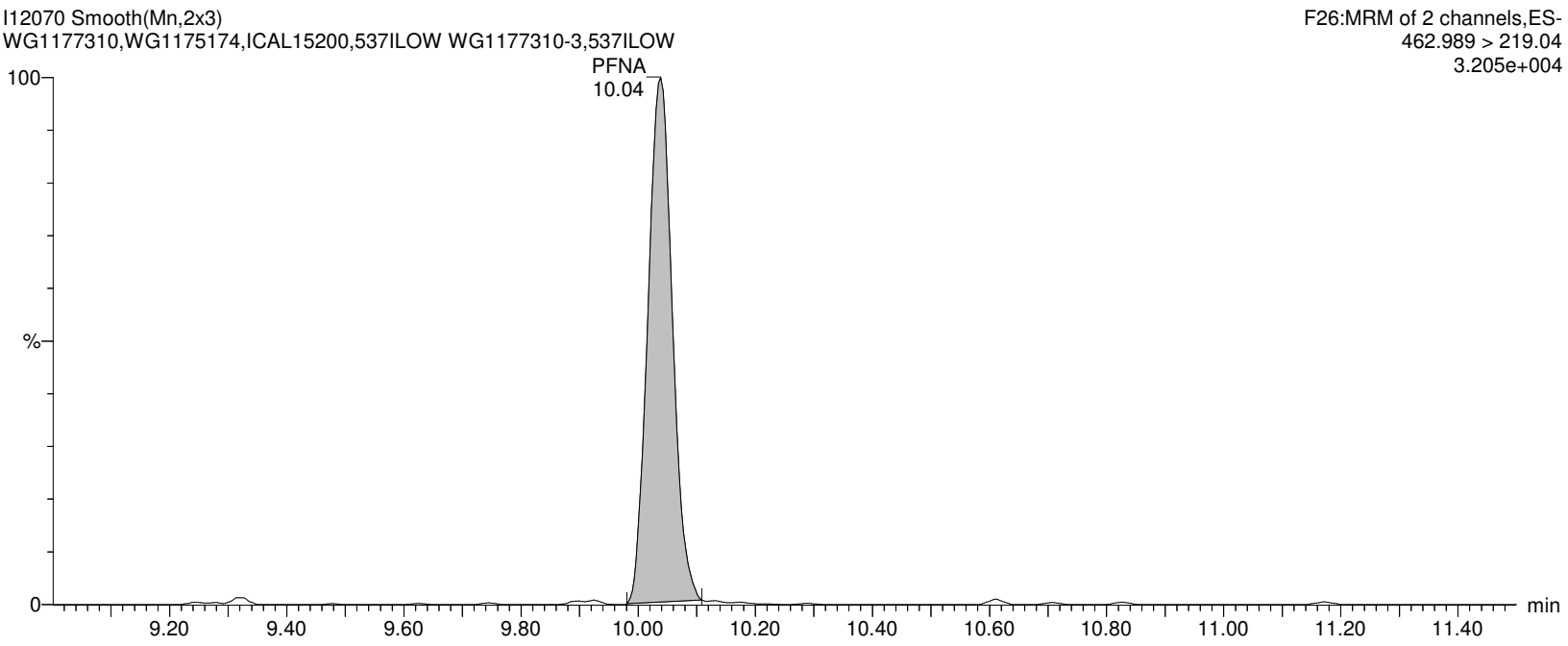

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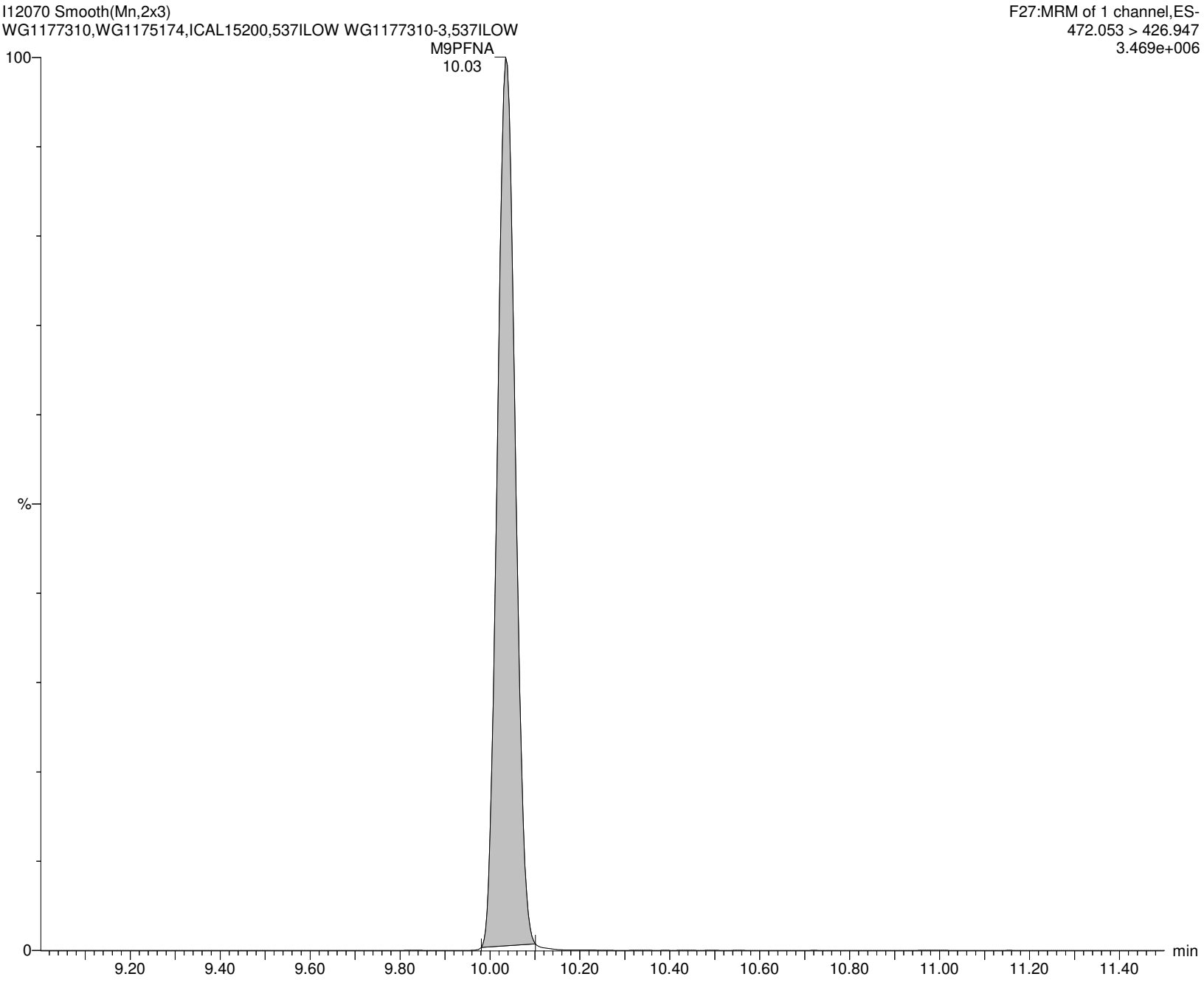

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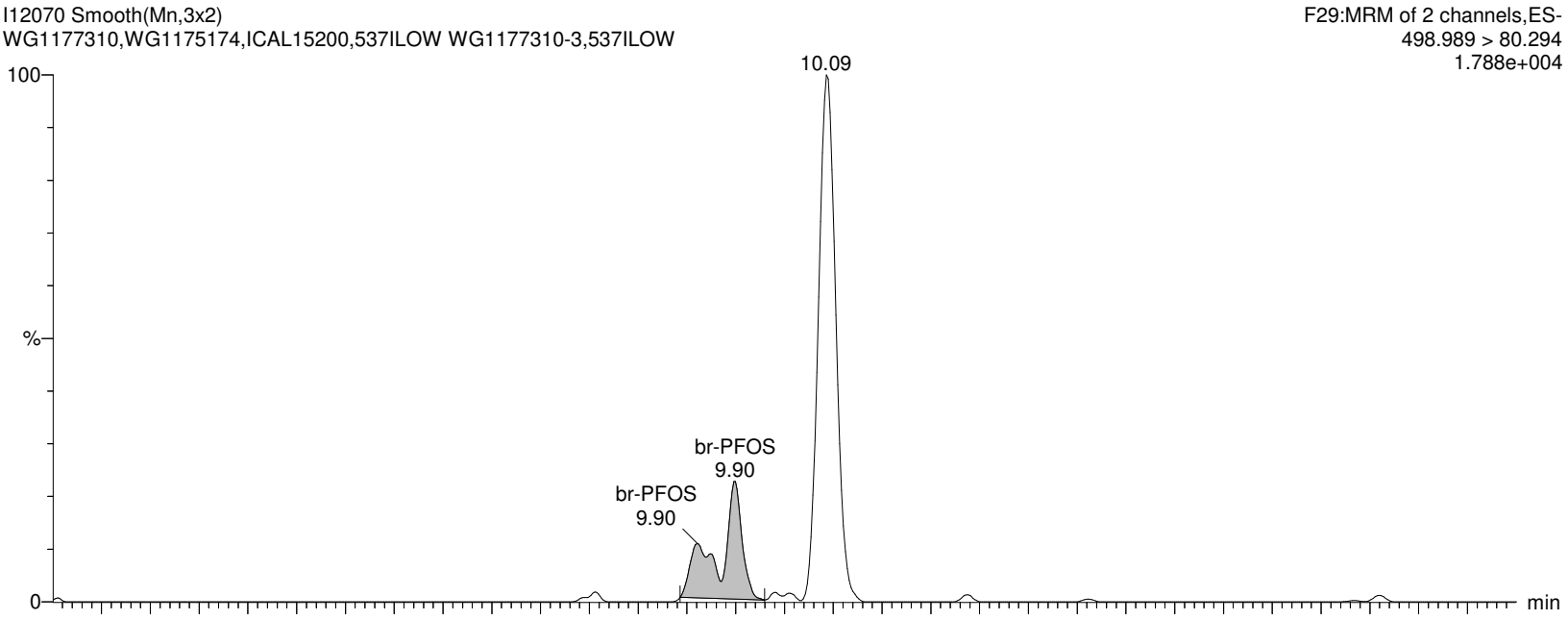

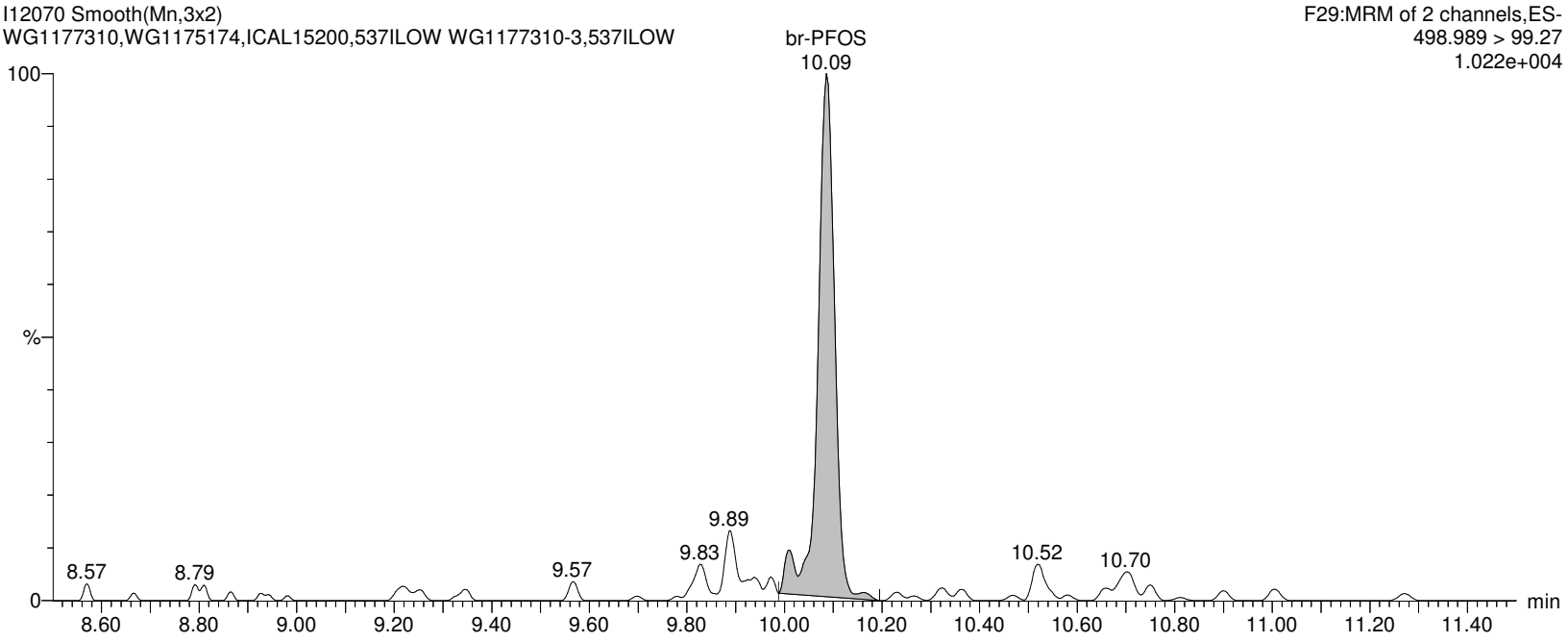

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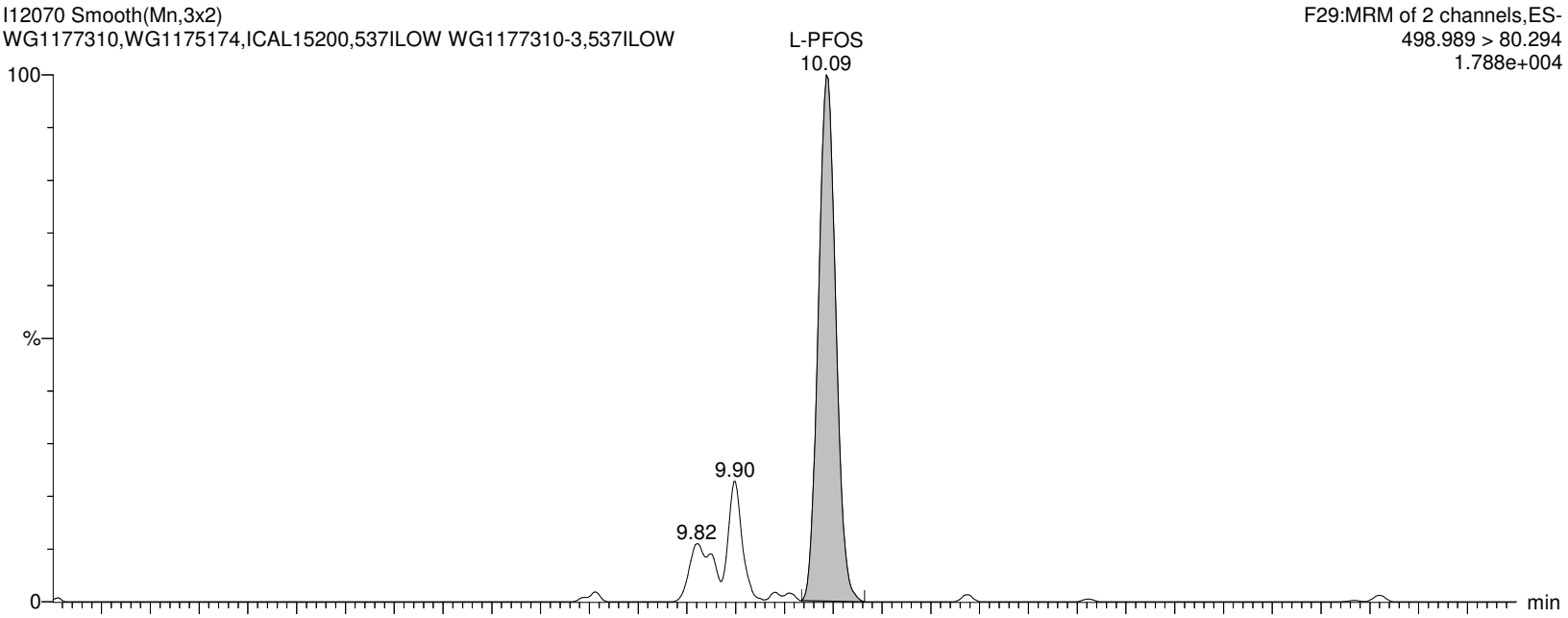

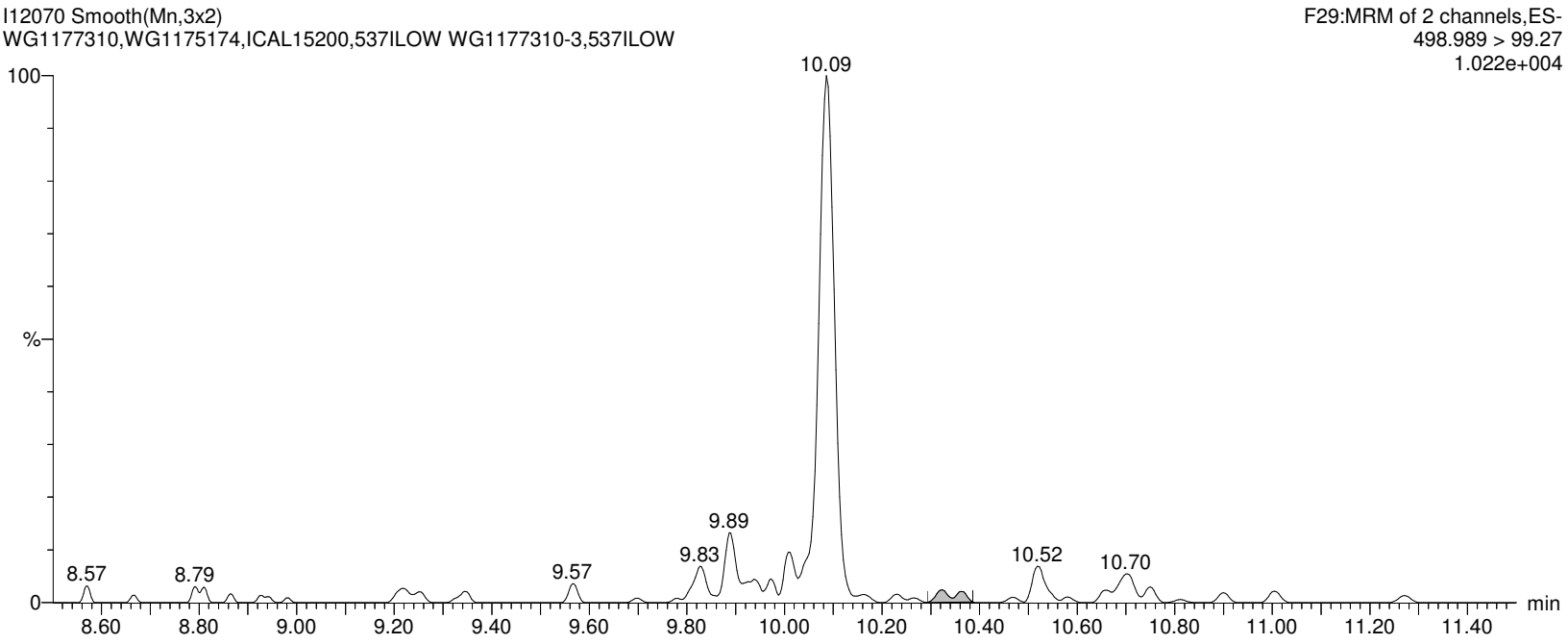

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Name: I12070
ID: WG1177310-3,537ILOW
Date: 08-Nov-2018
Time: 15:57:47
Description: WG1177310,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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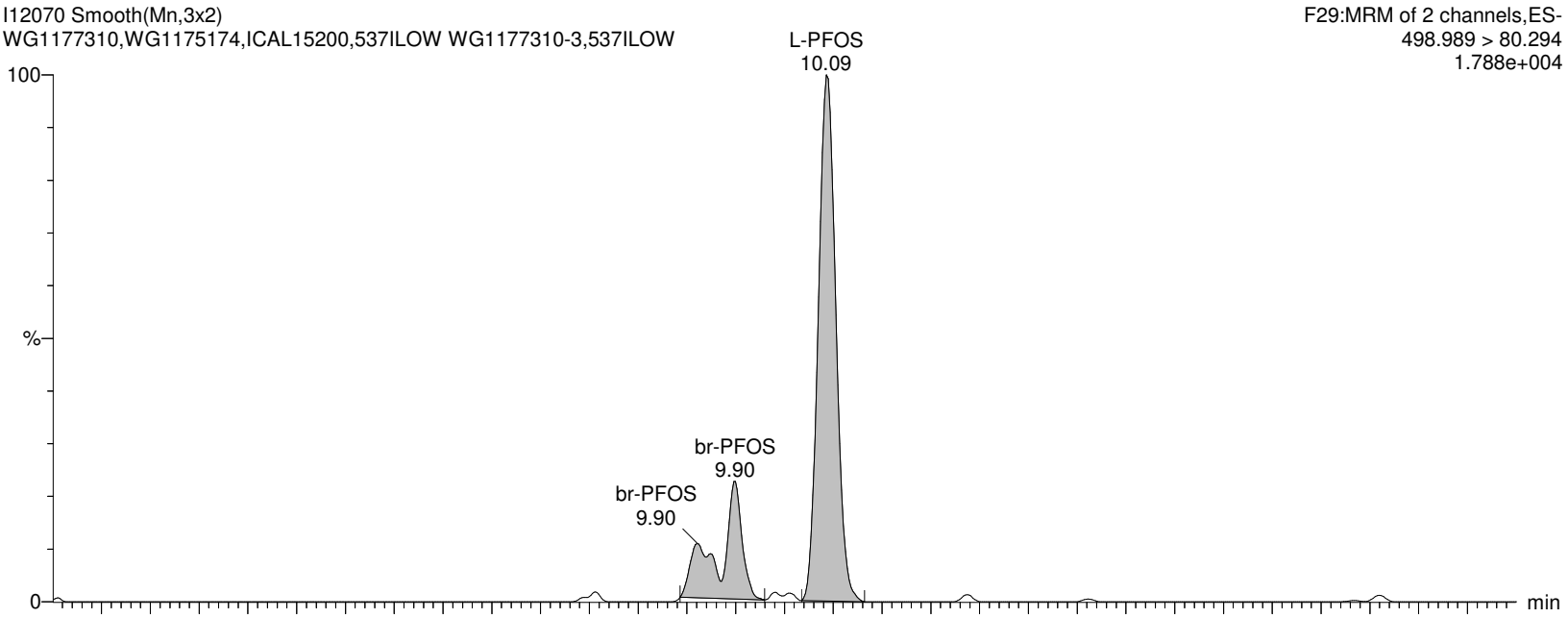

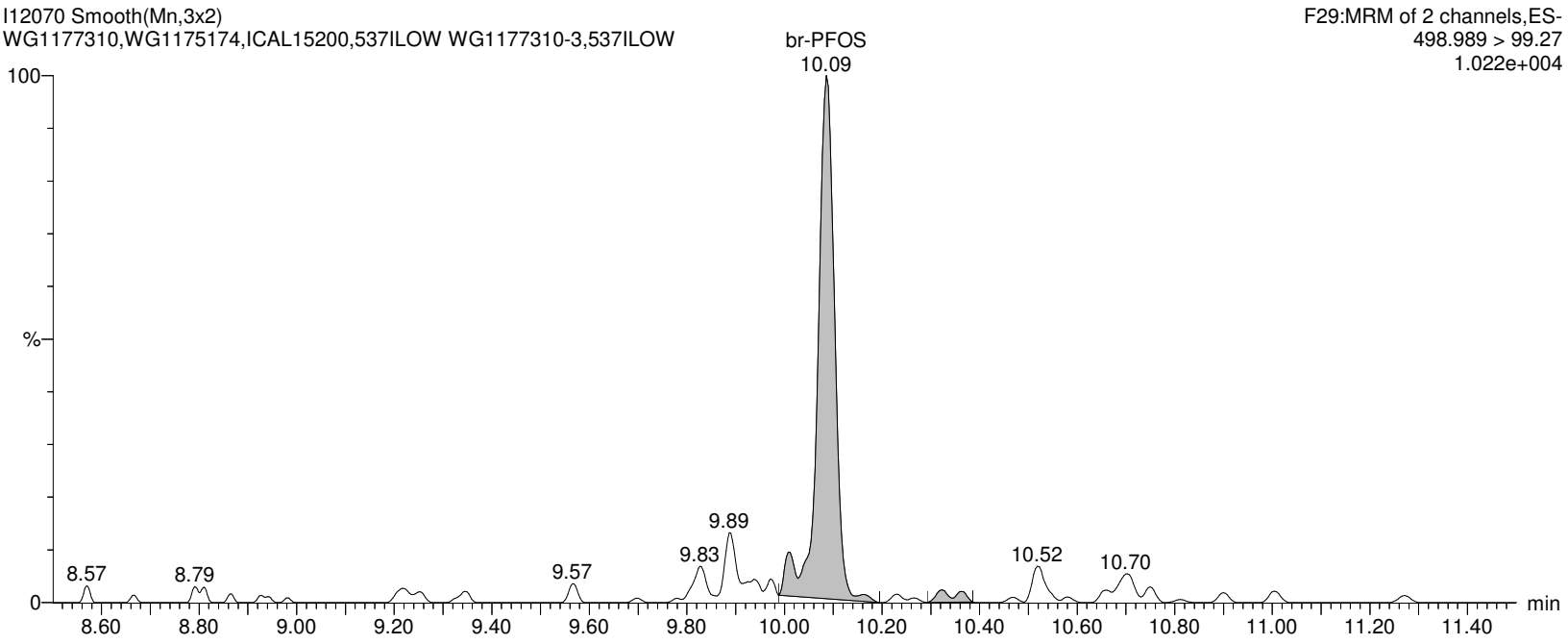

all concentration units in (ng/mL)

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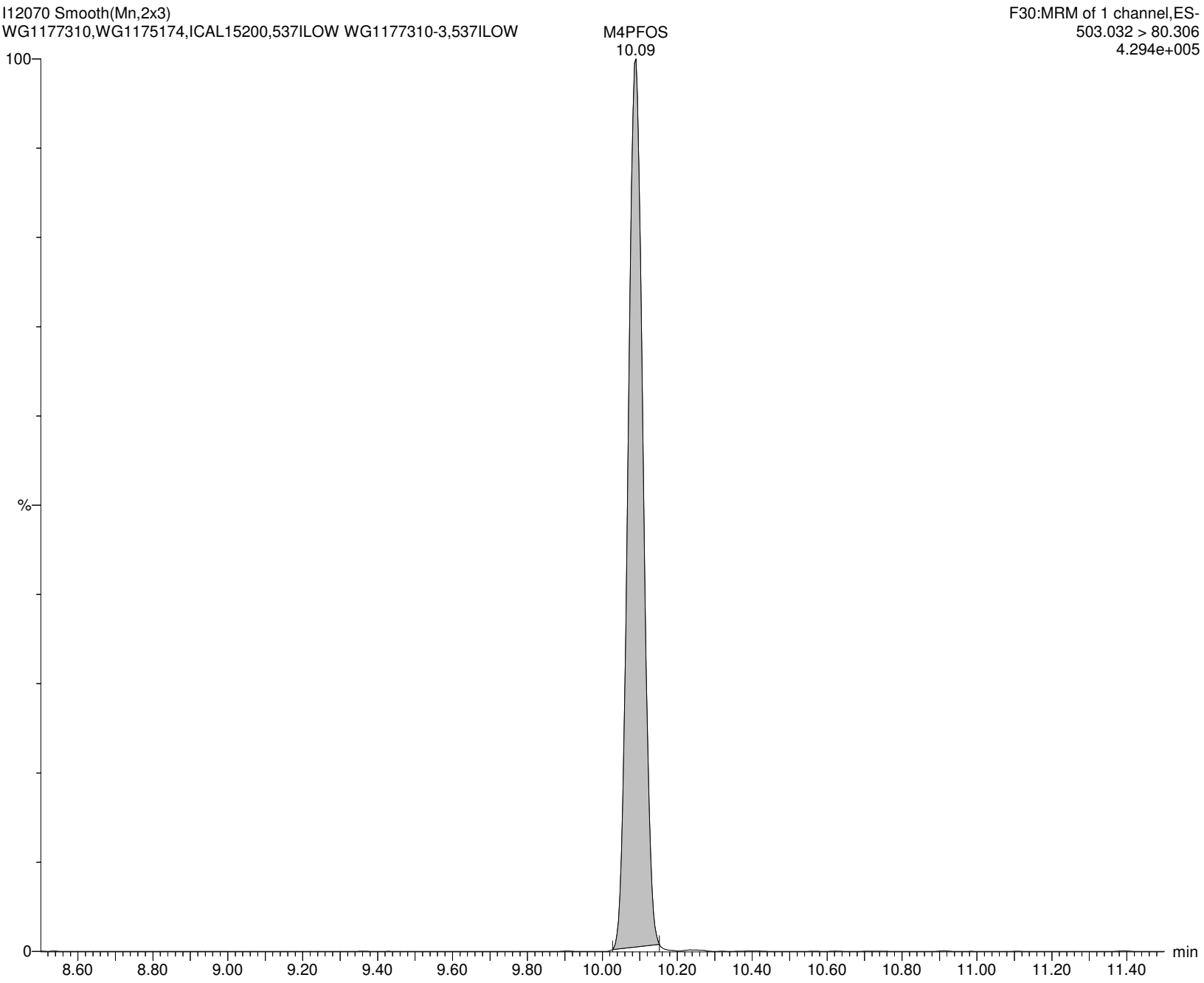

all concentration units in (ng/mL)

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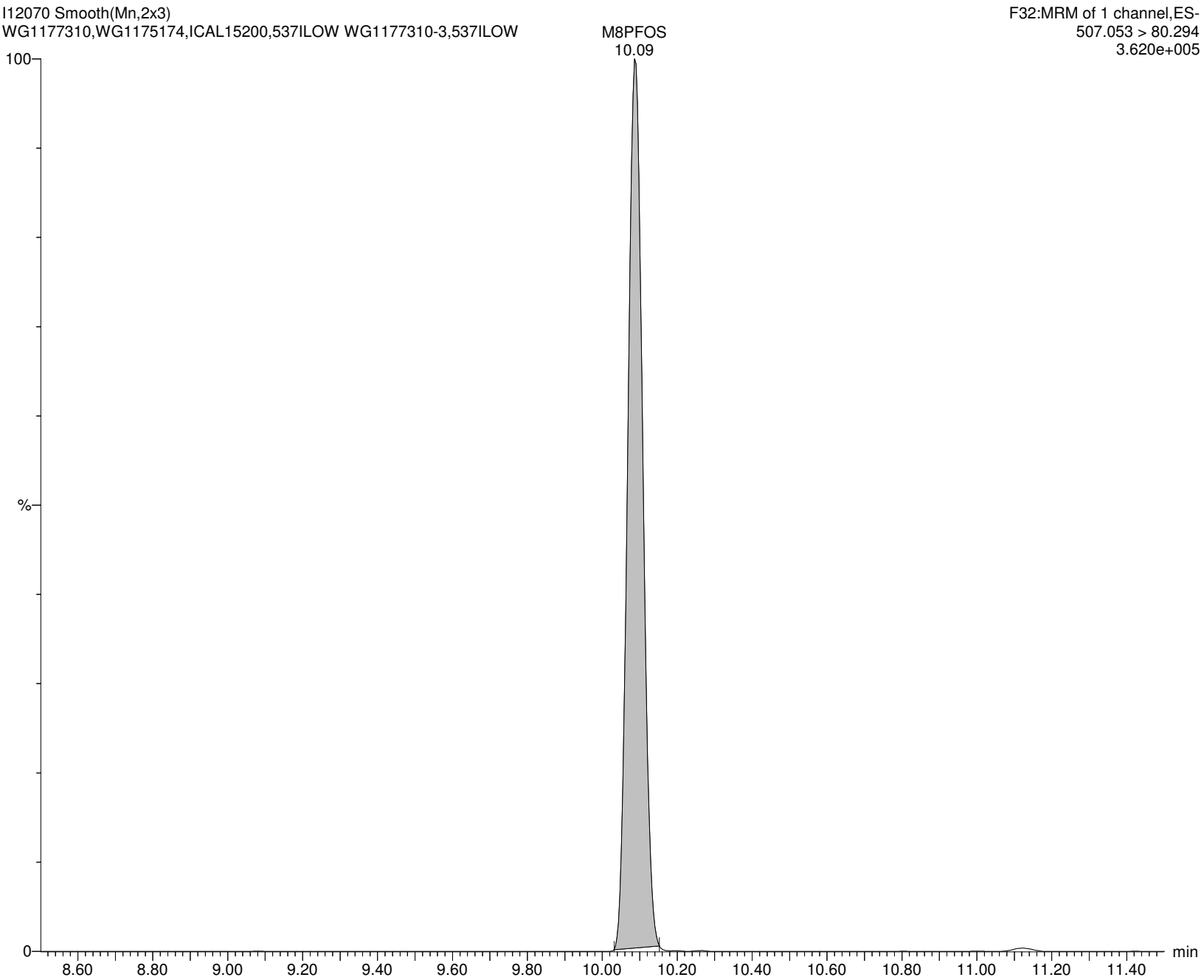

all concentration units in (ng/mL)

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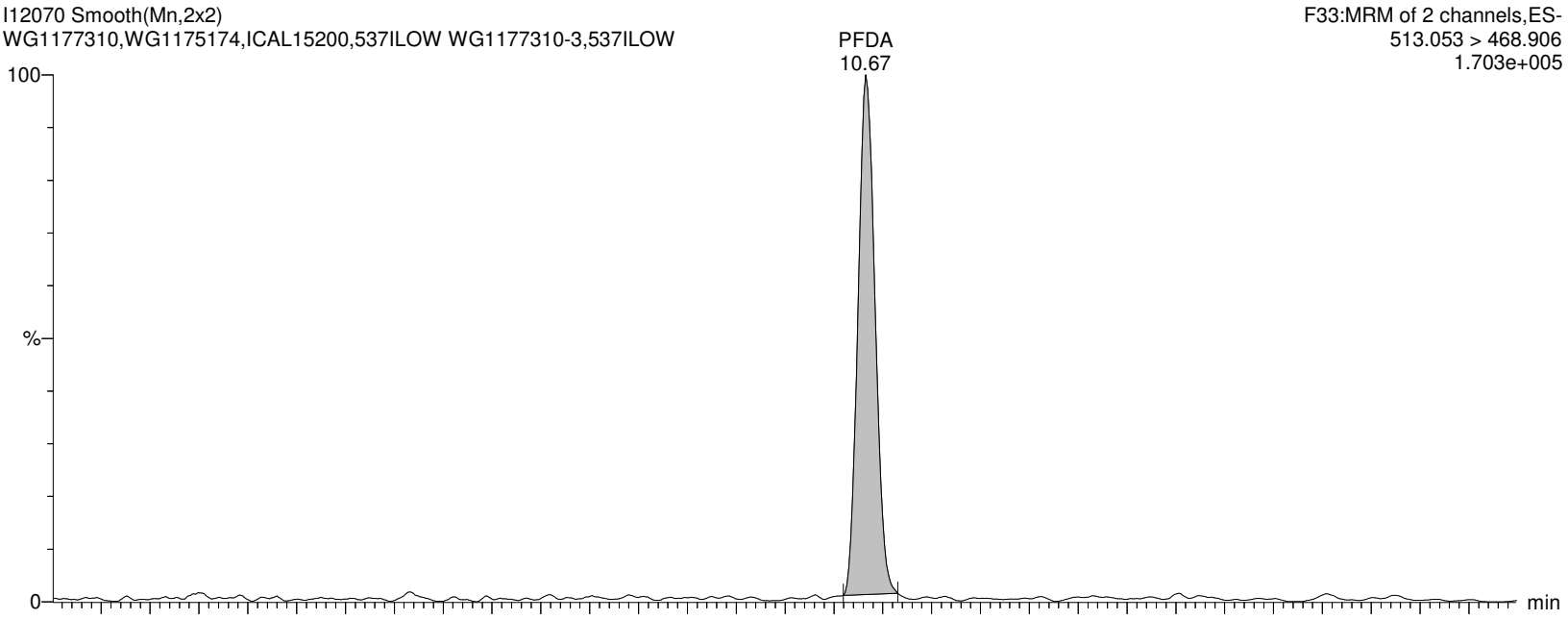

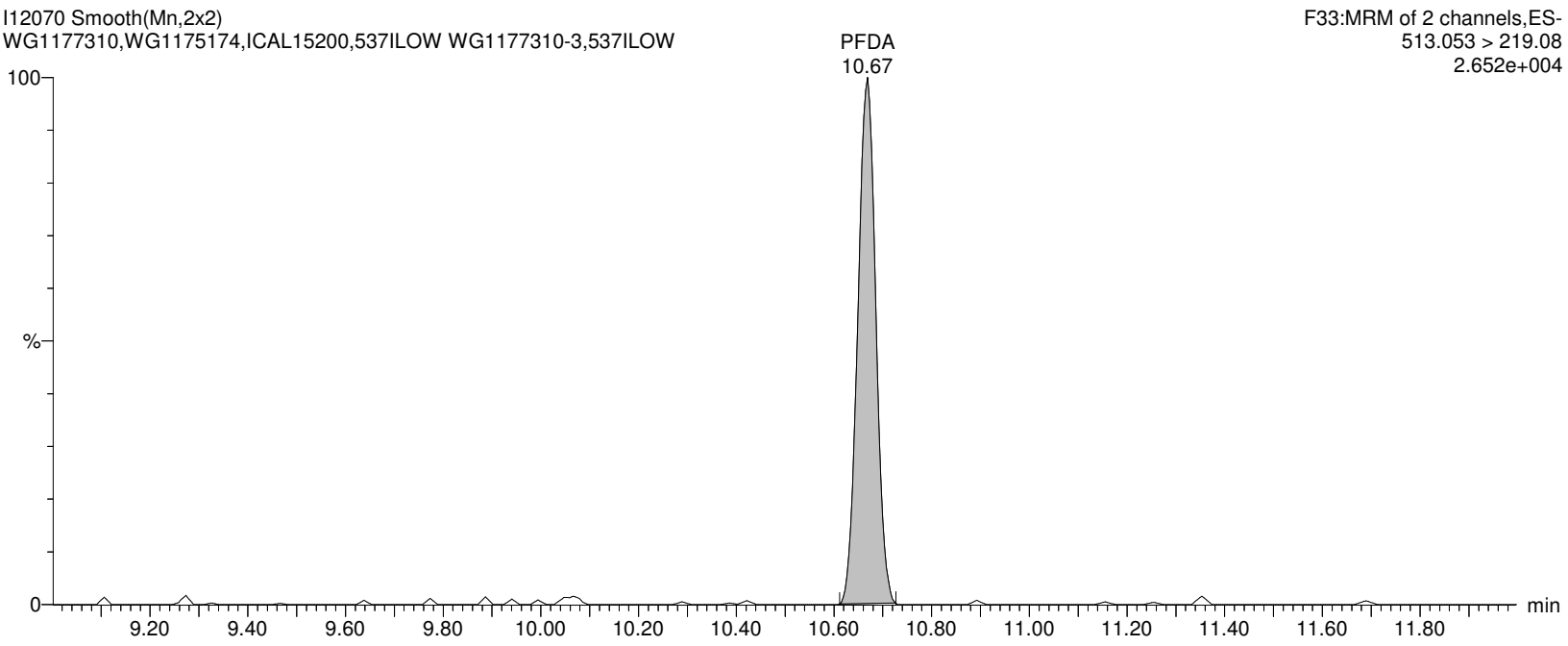

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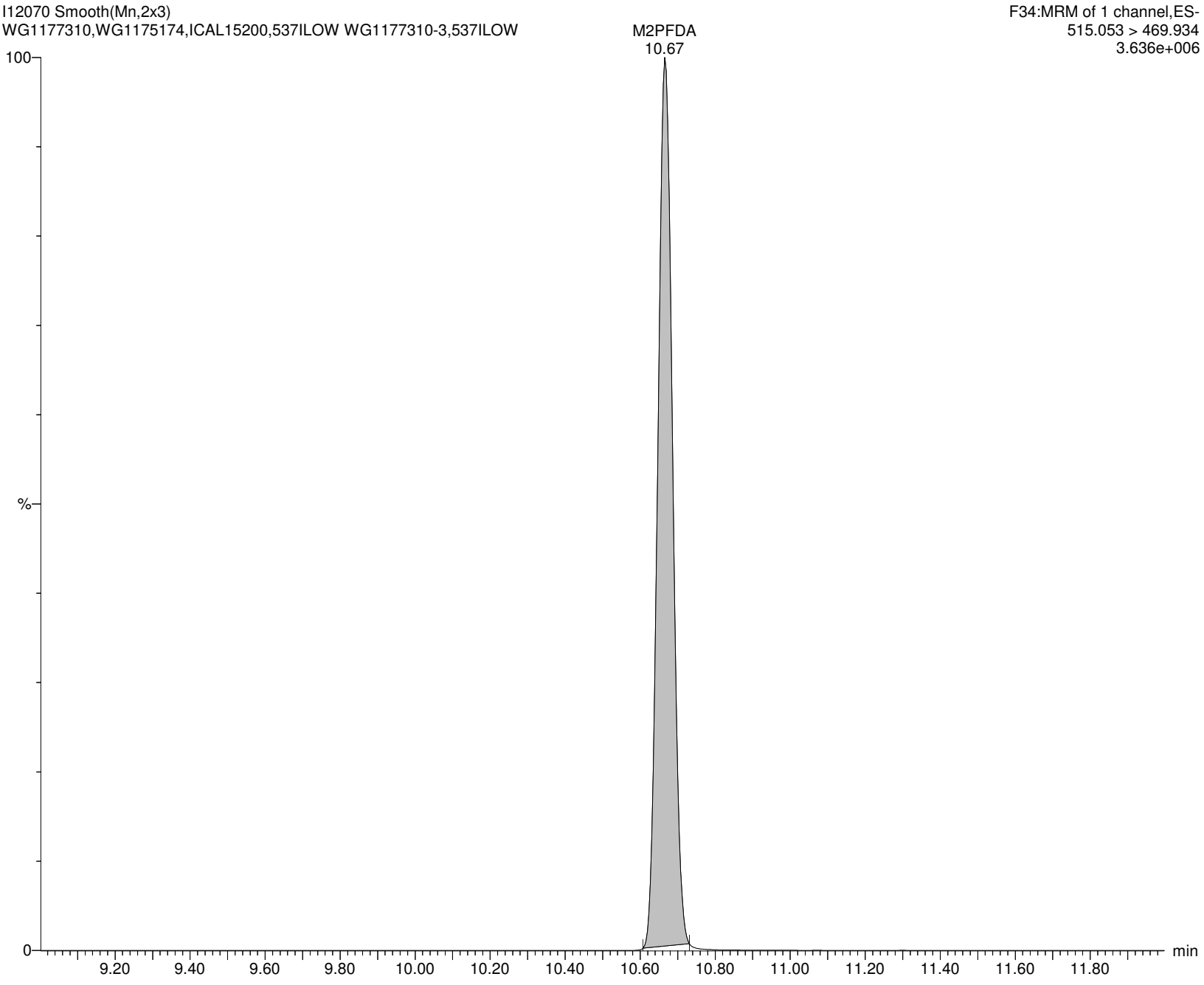

all concentration units in (ng/mL)

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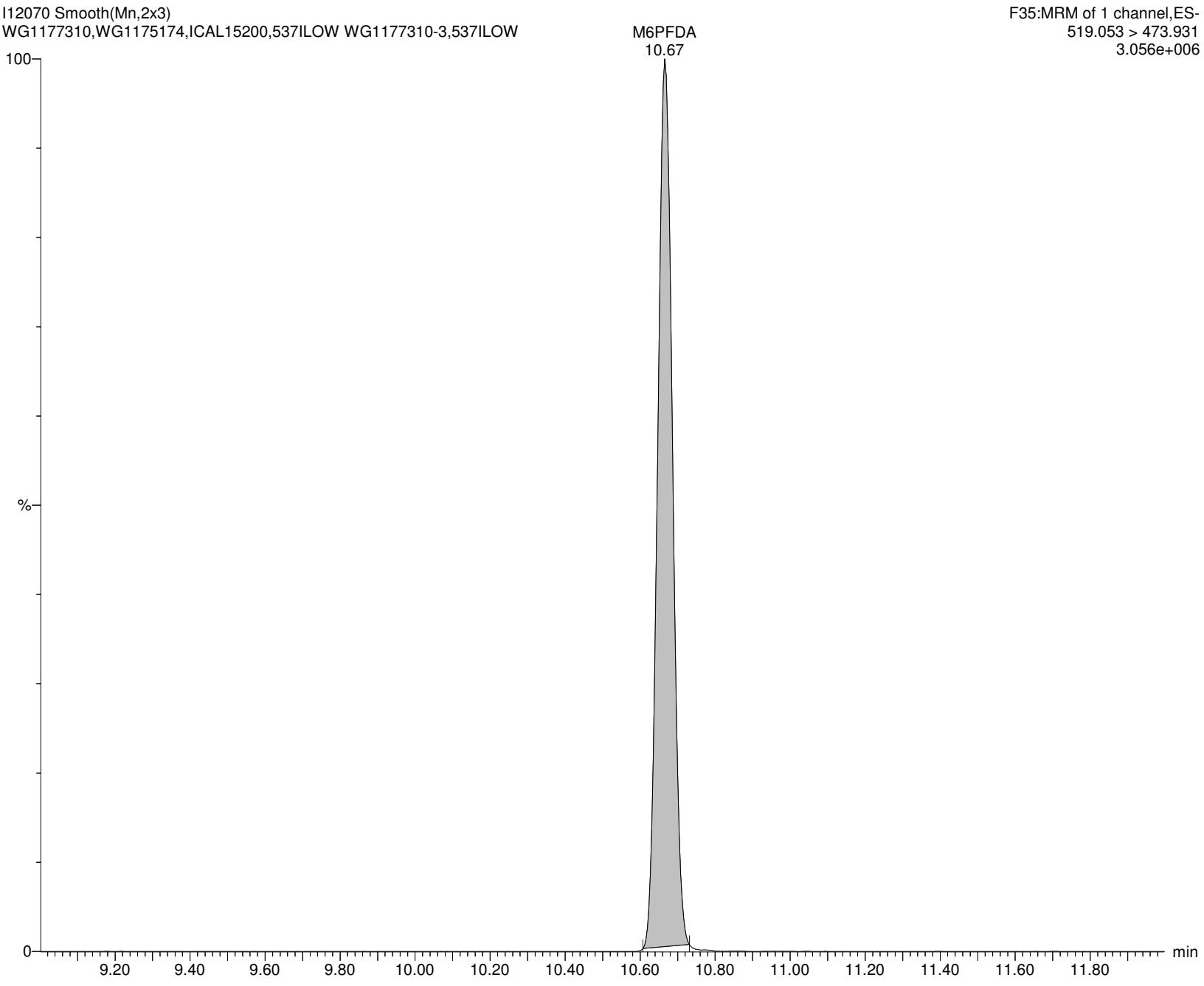

all concentration units in (ng/mL)

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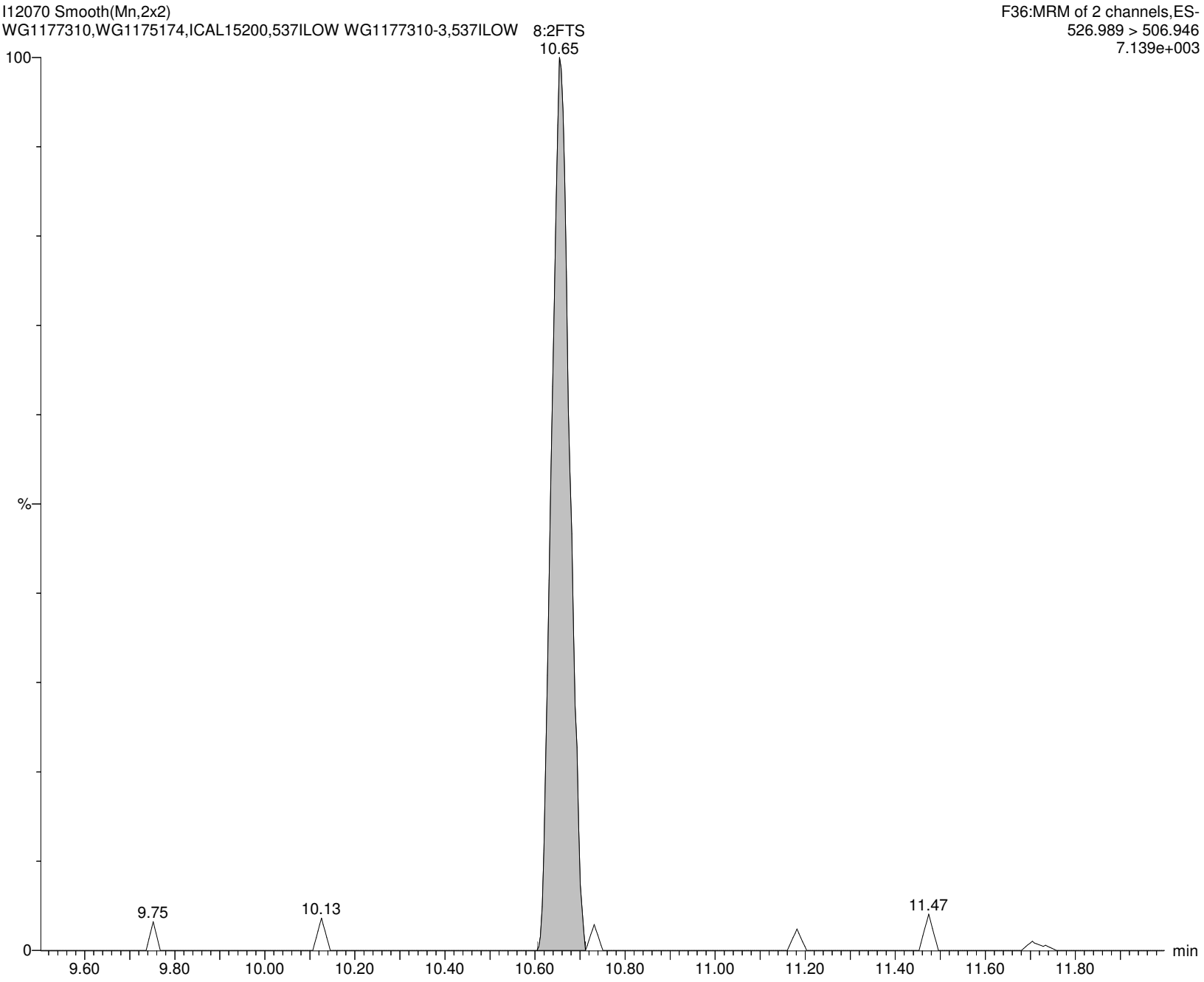

all concentration units in (ng/mL)

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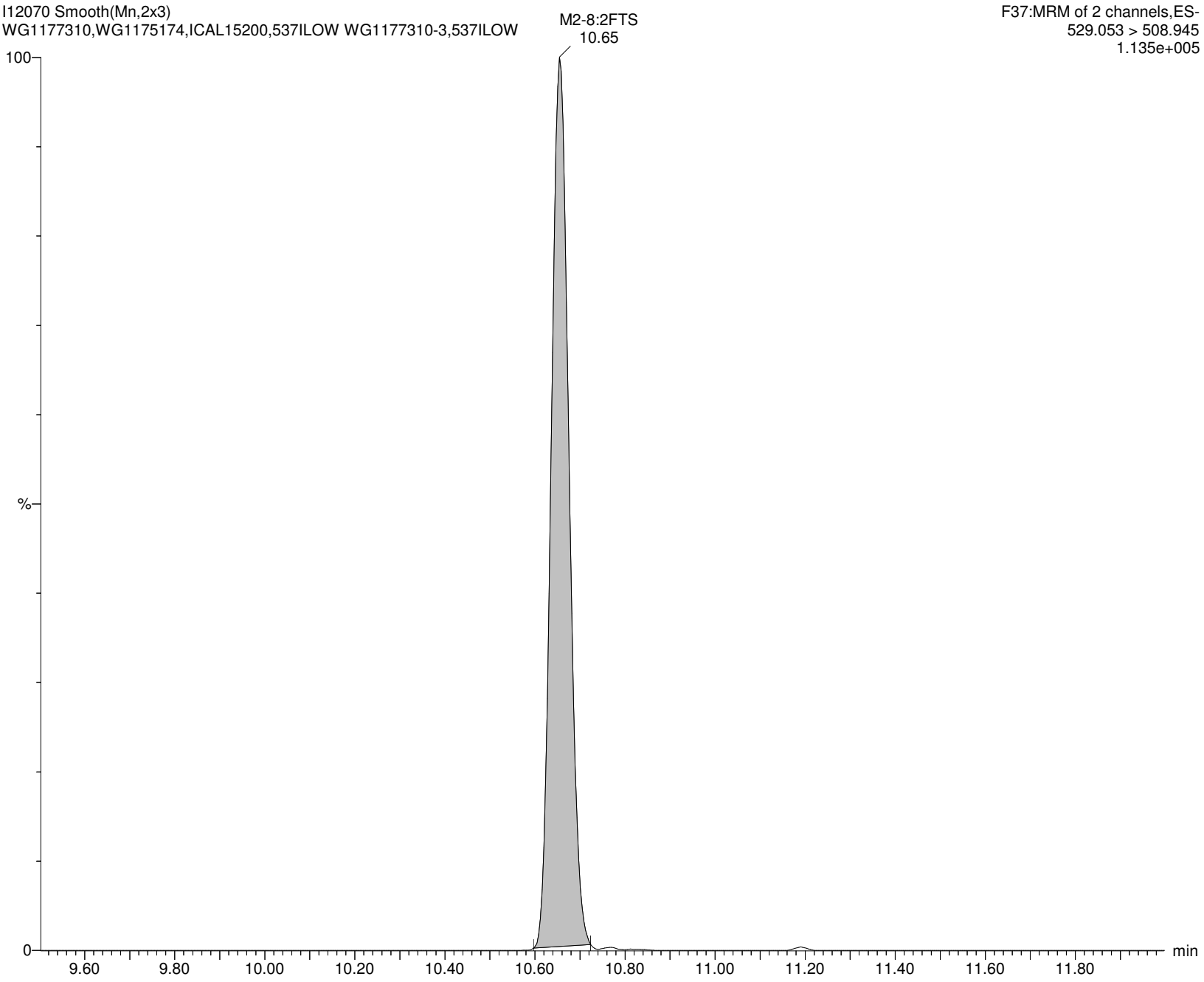

all concentration units in (ng/mL)

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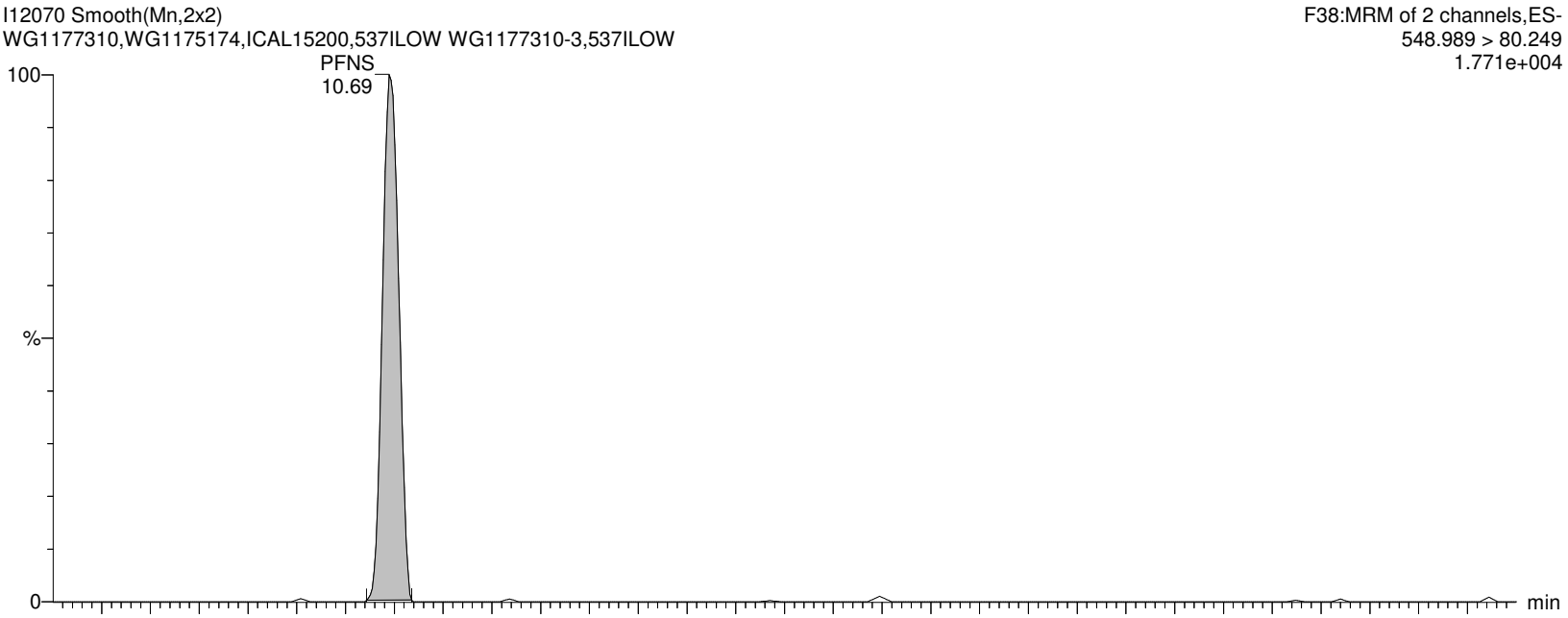

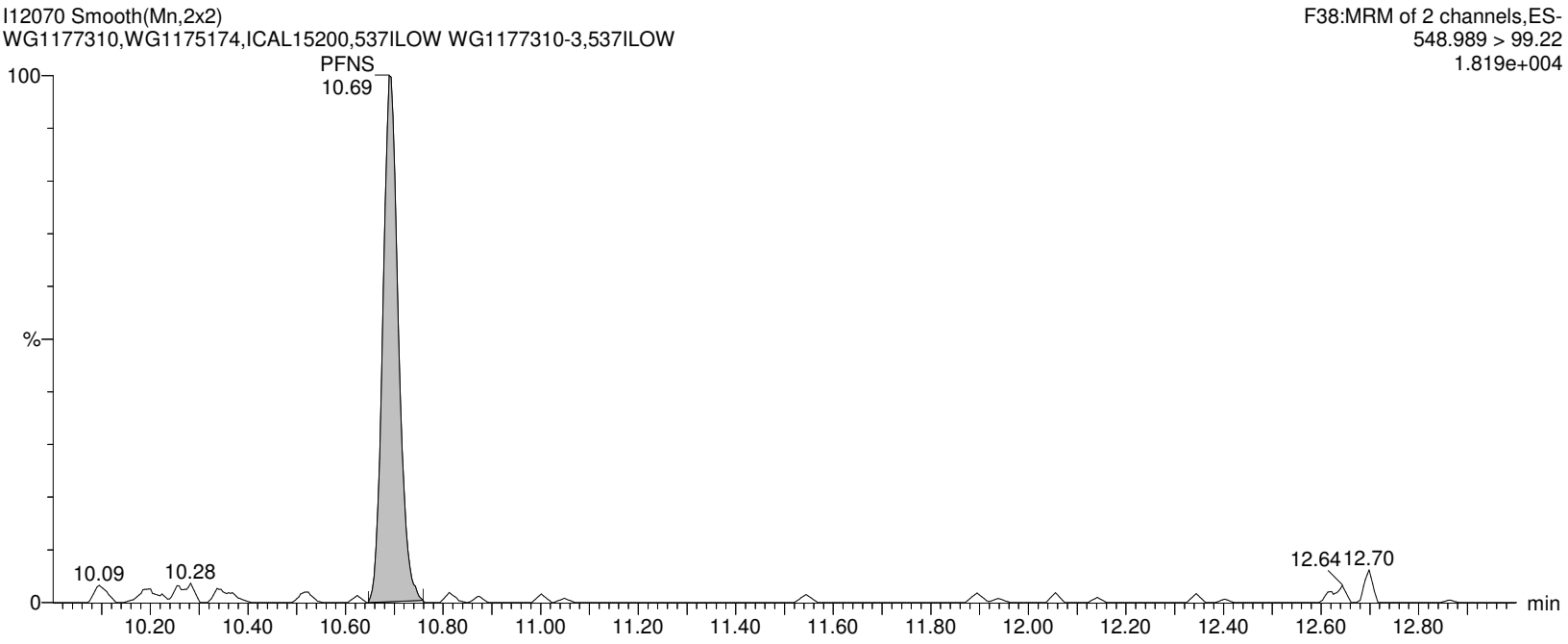

all concentration units in (ng/mL)

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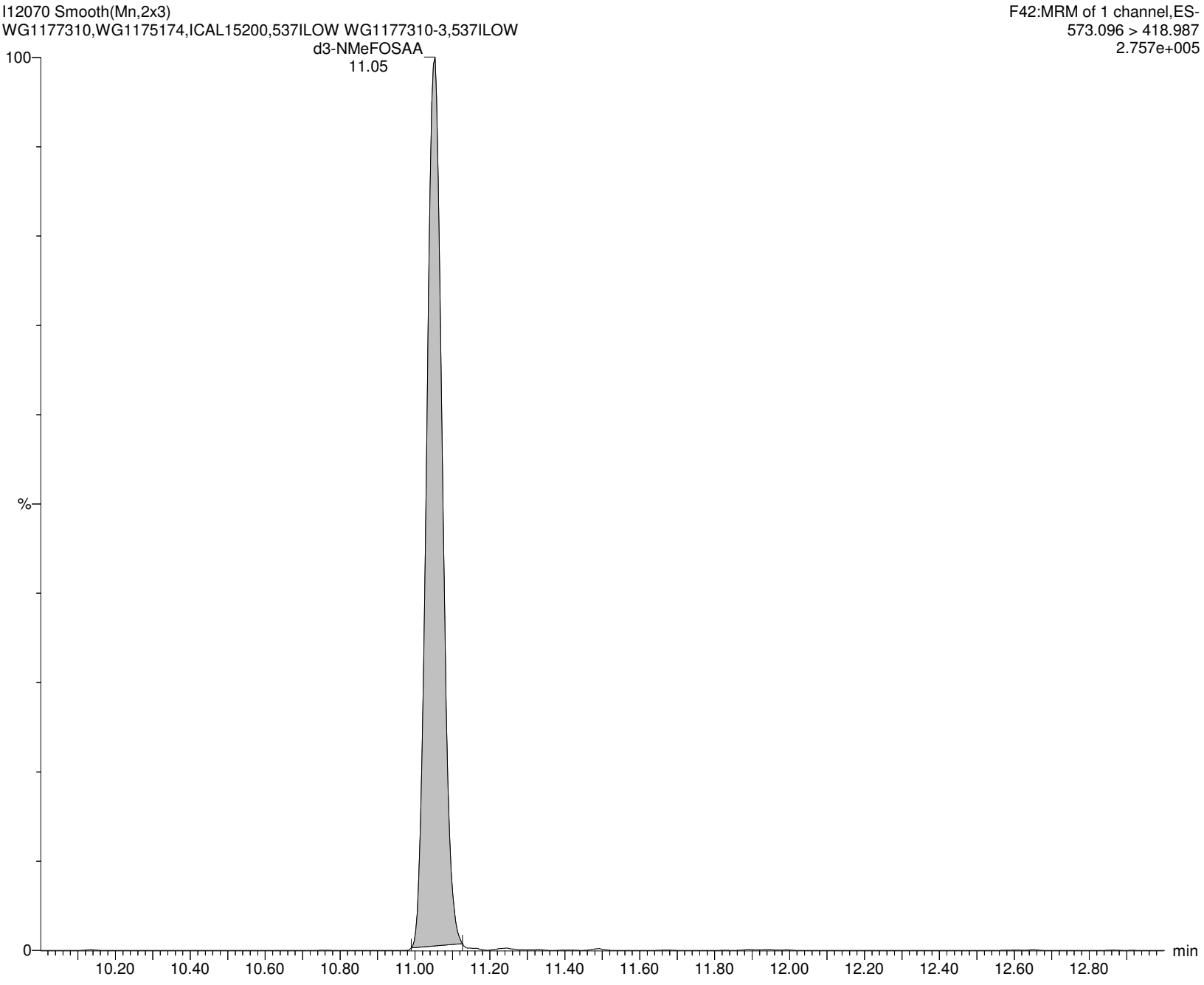

all concentration units in (ng/mL)

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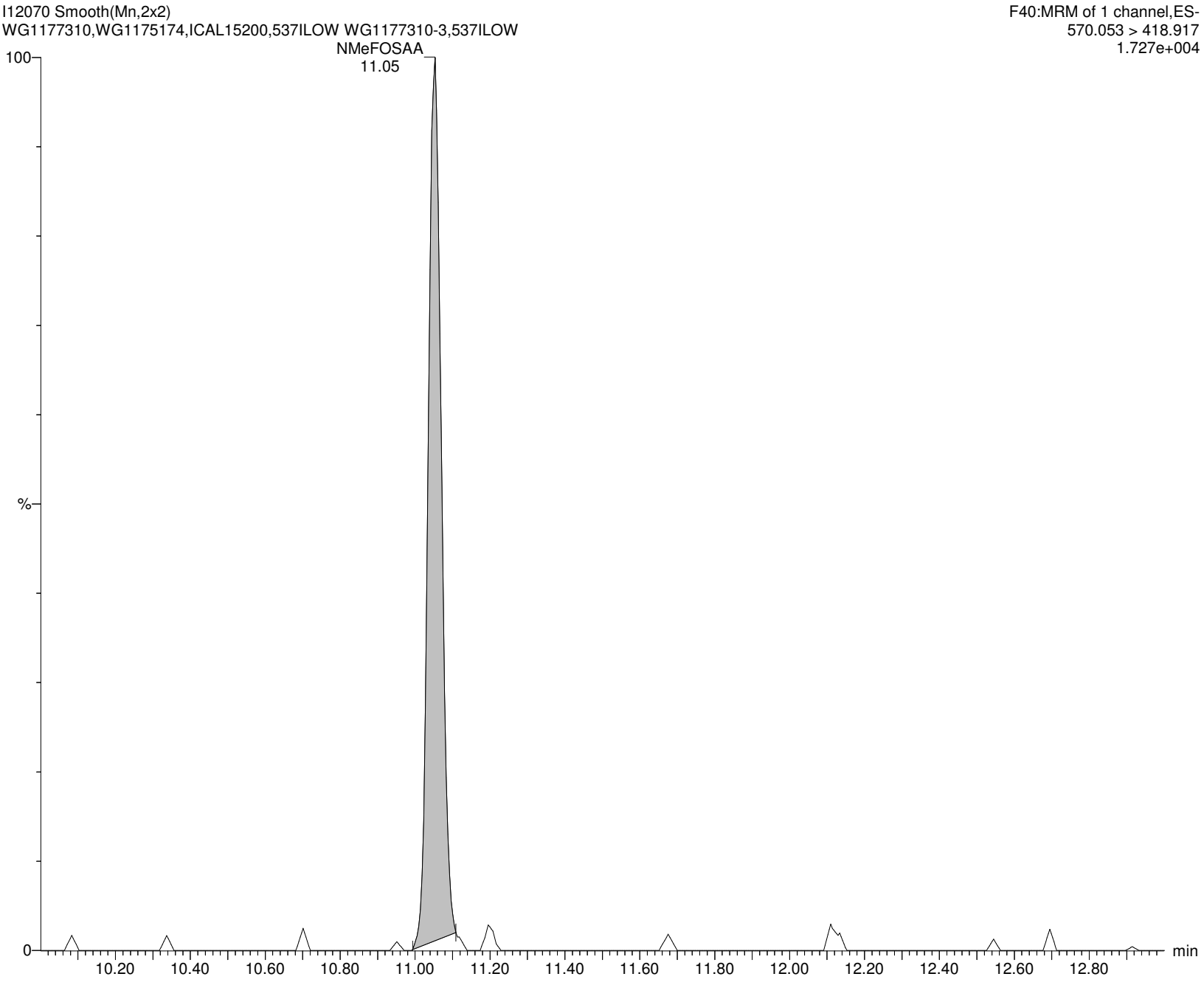

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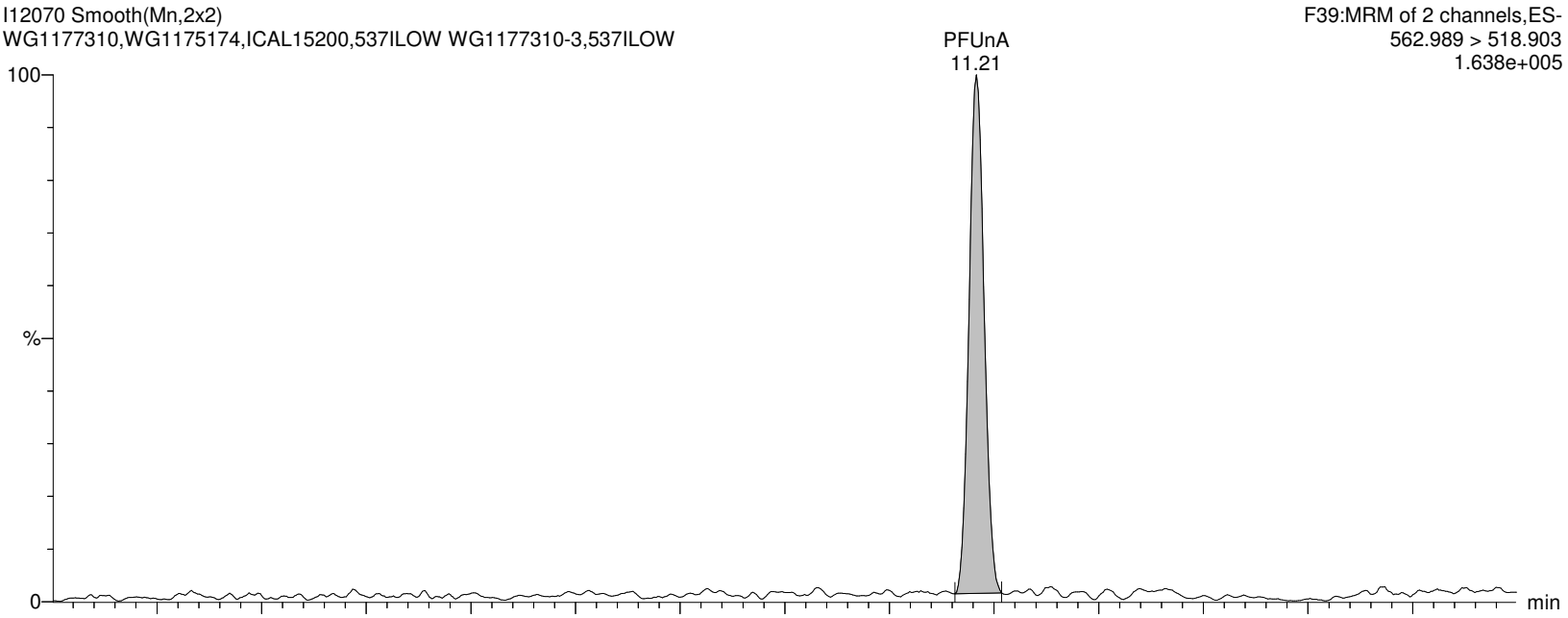

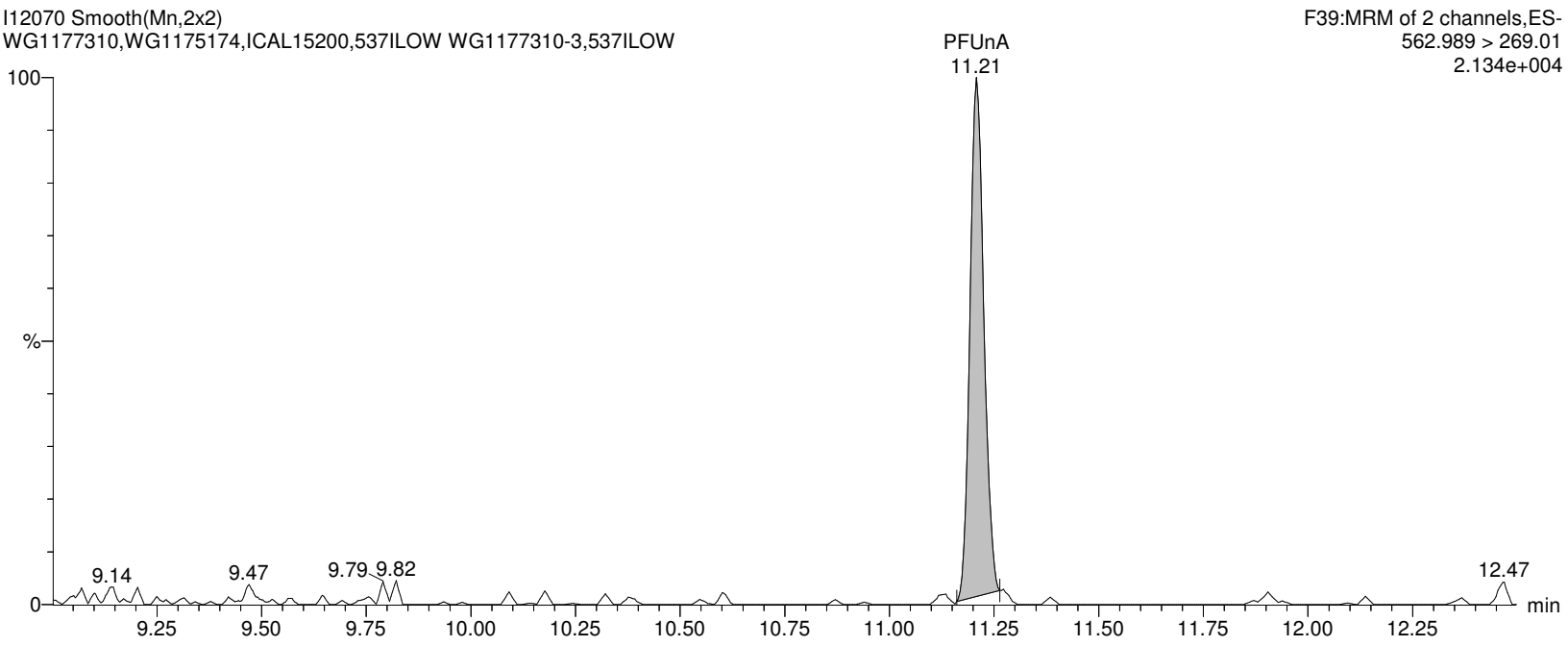

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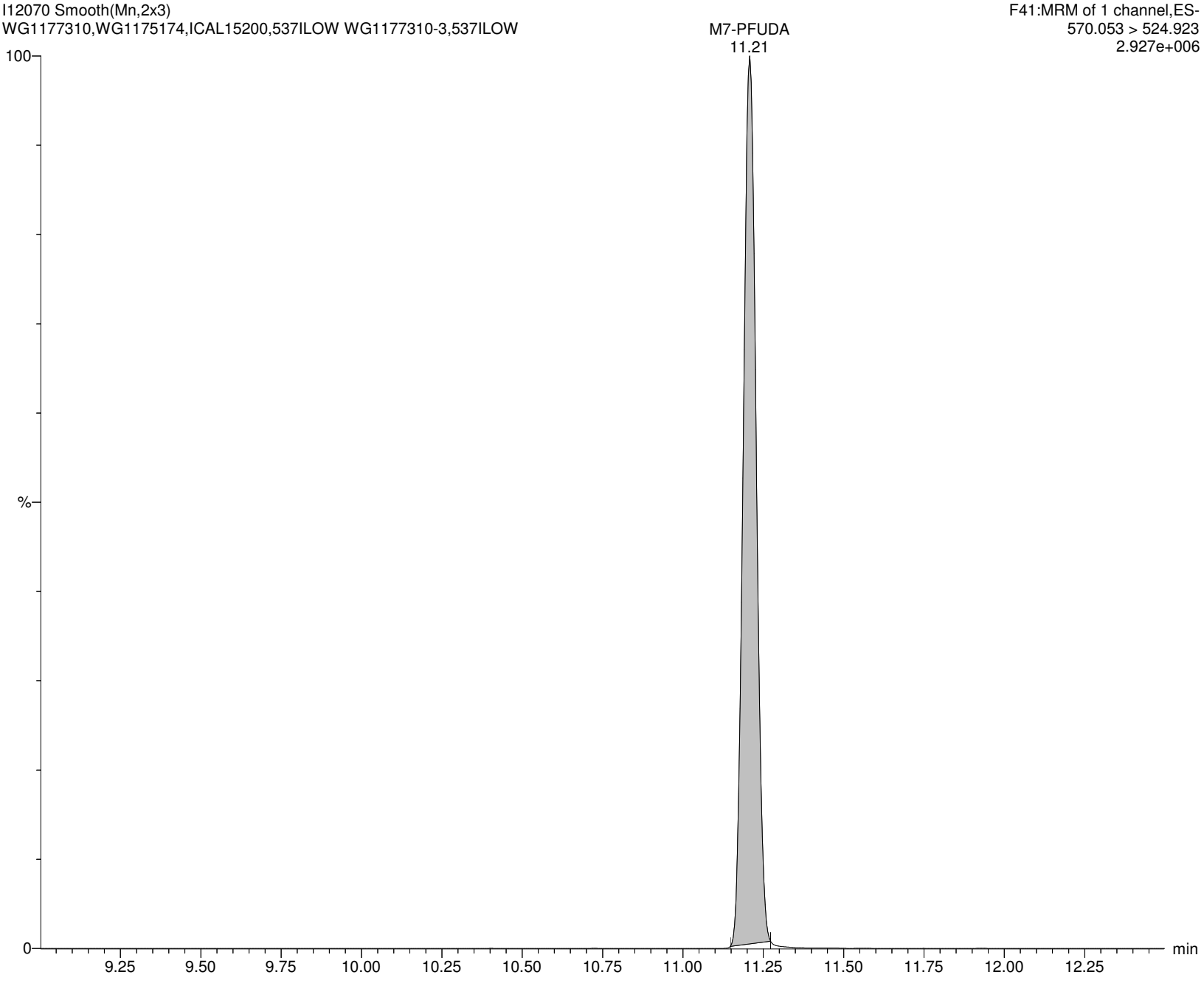

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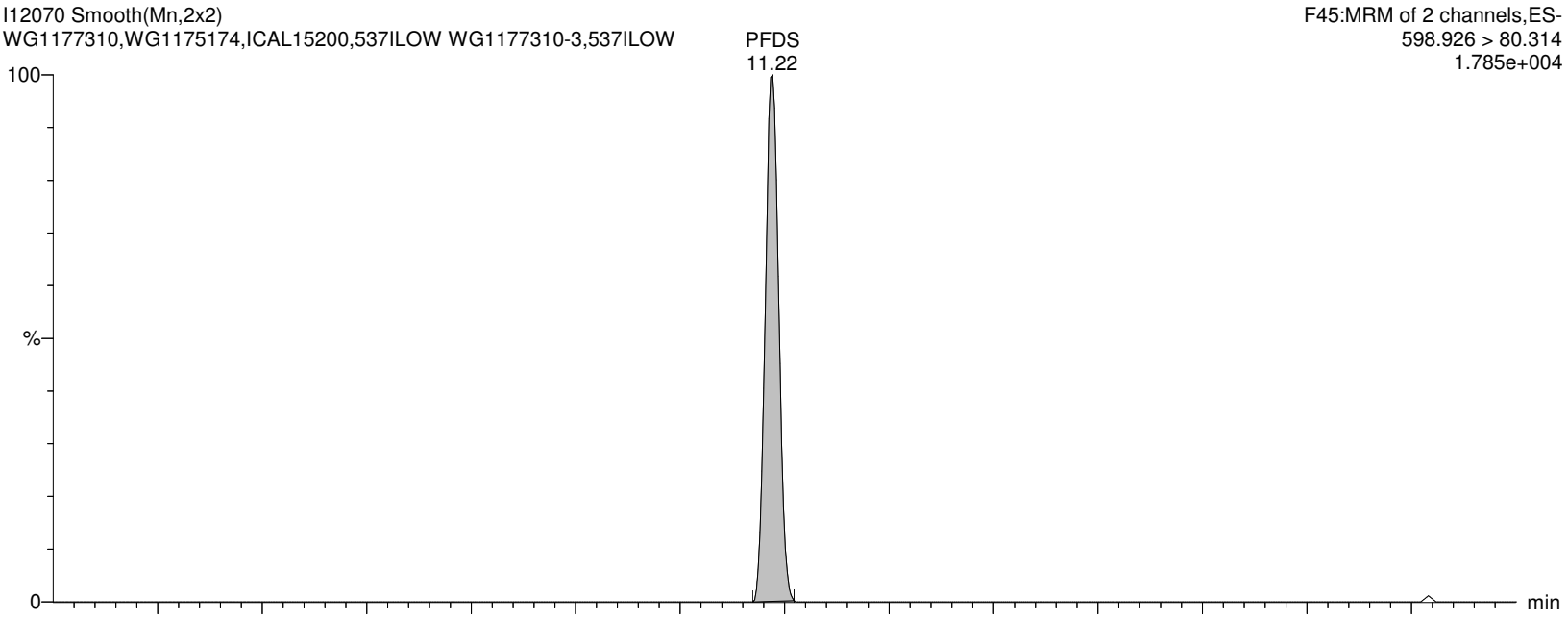

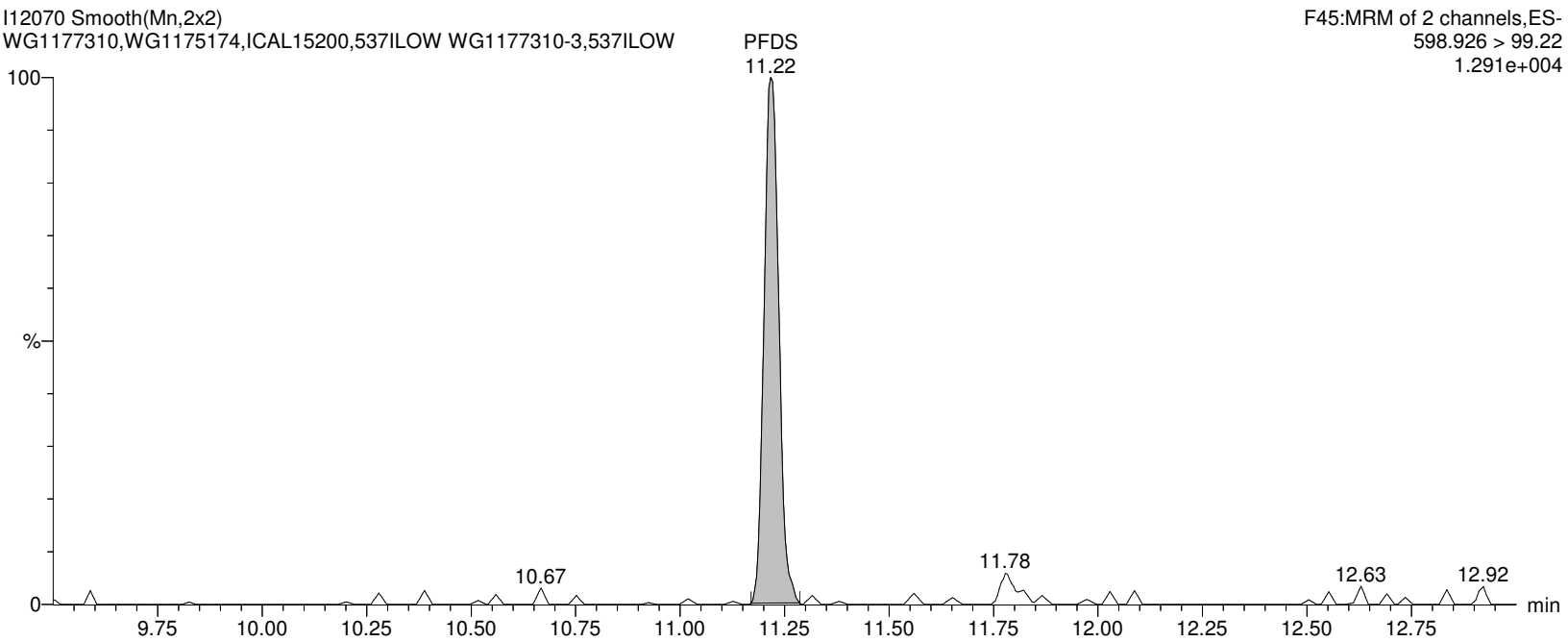

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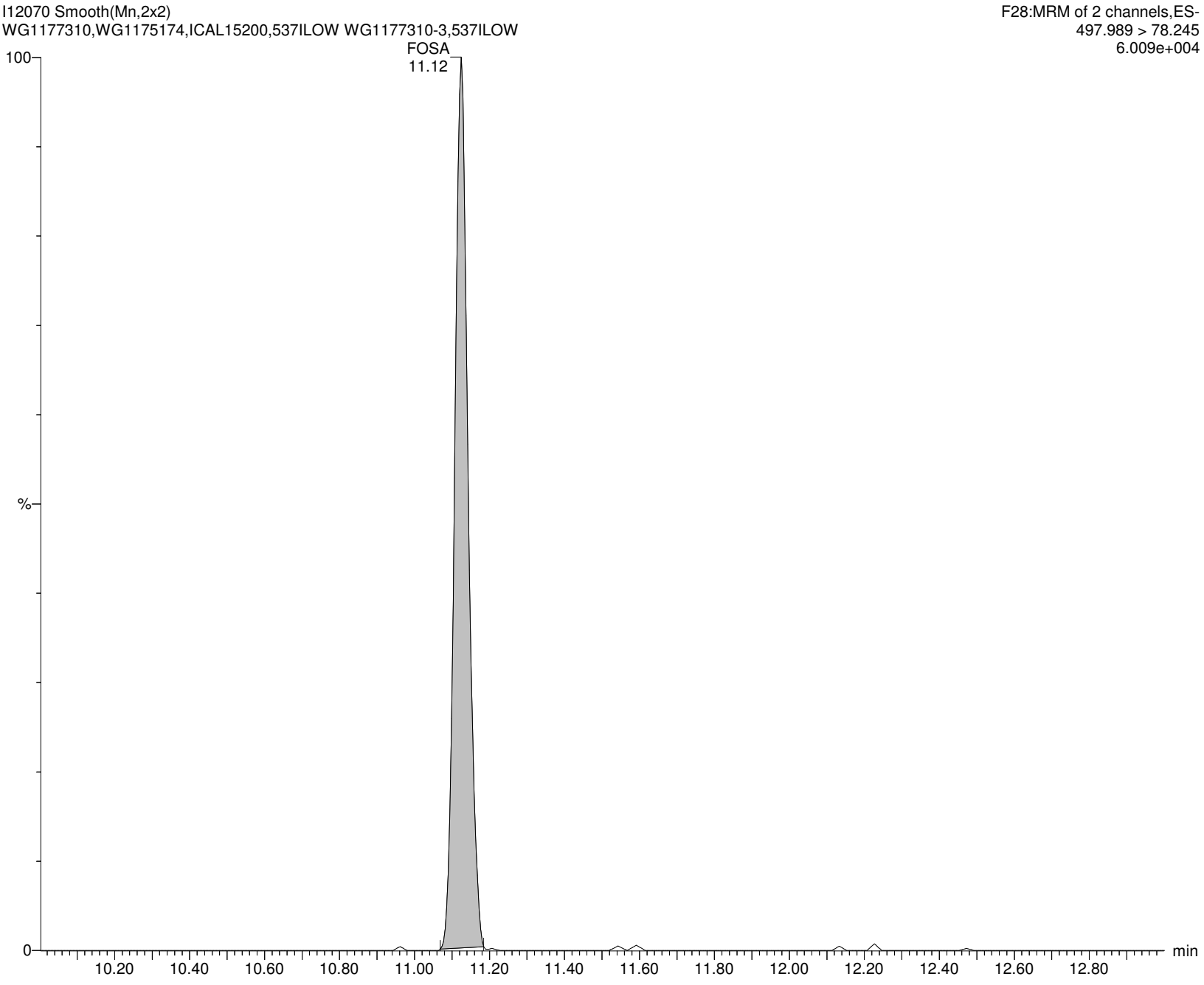

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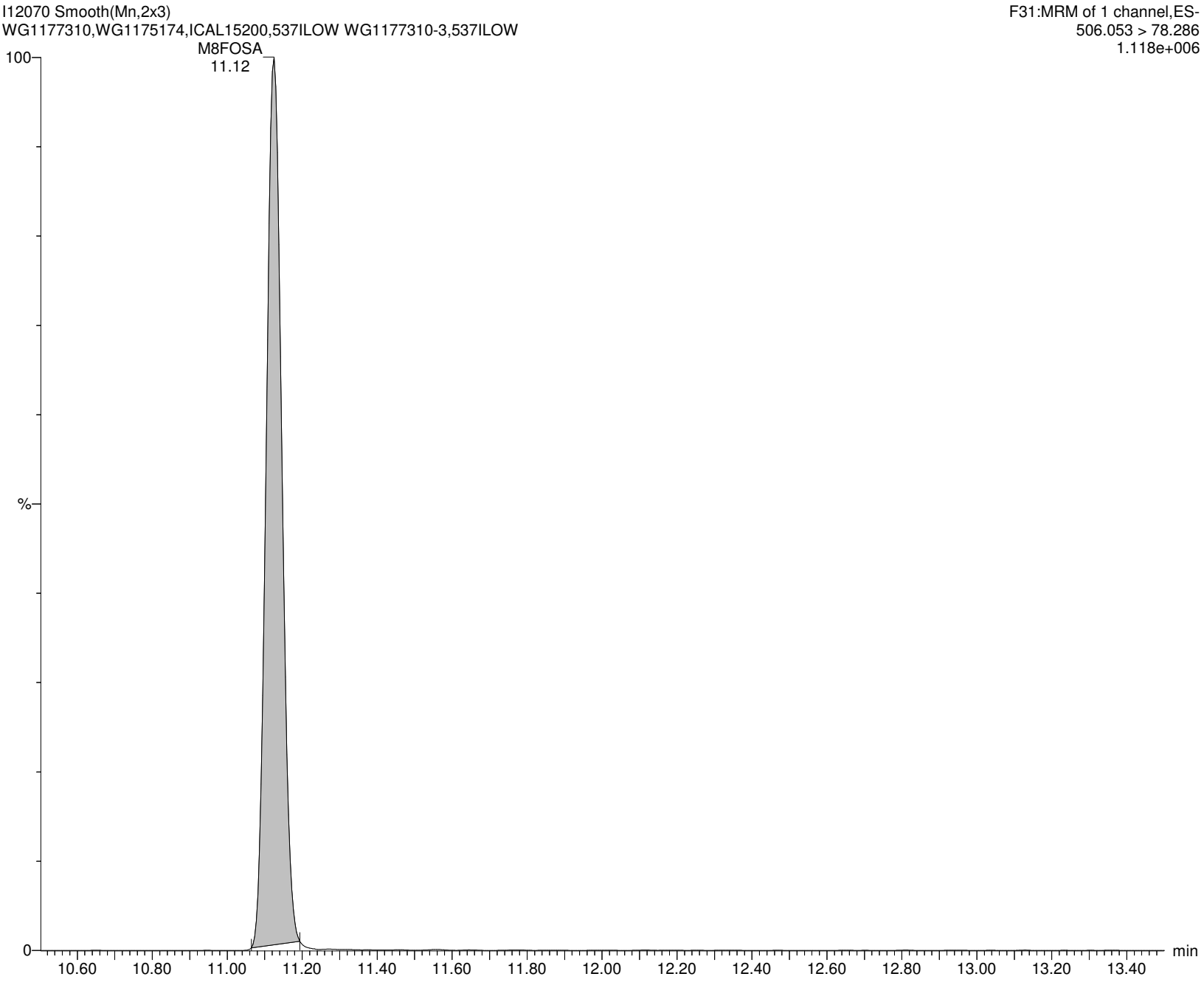

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:20 Eastern Standard Time

Name: I12070
ID: WG1177310-3,537ILOW
Date: 08-Nov-2018
Time: 15:57:47
Description: WG1177310,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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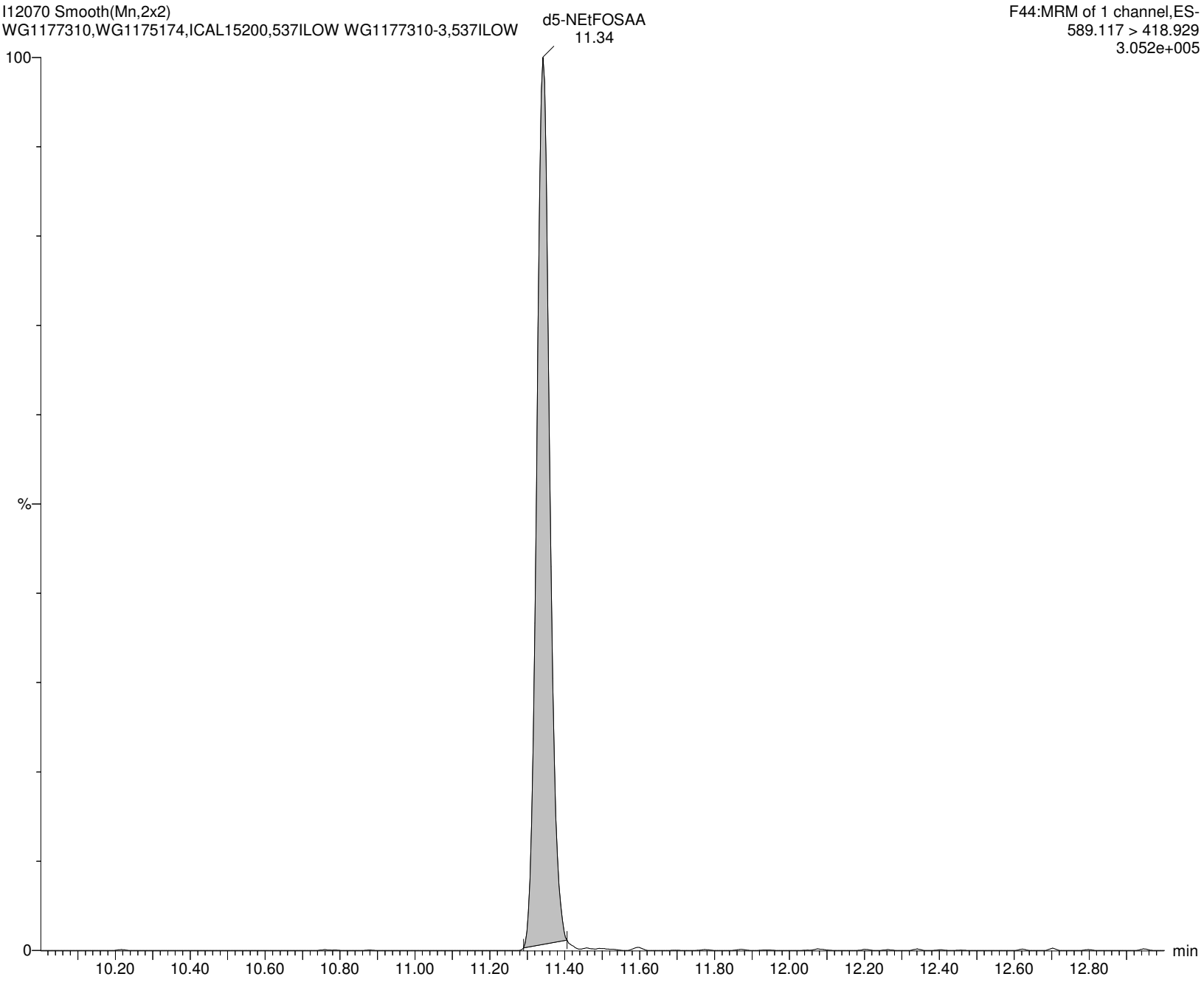

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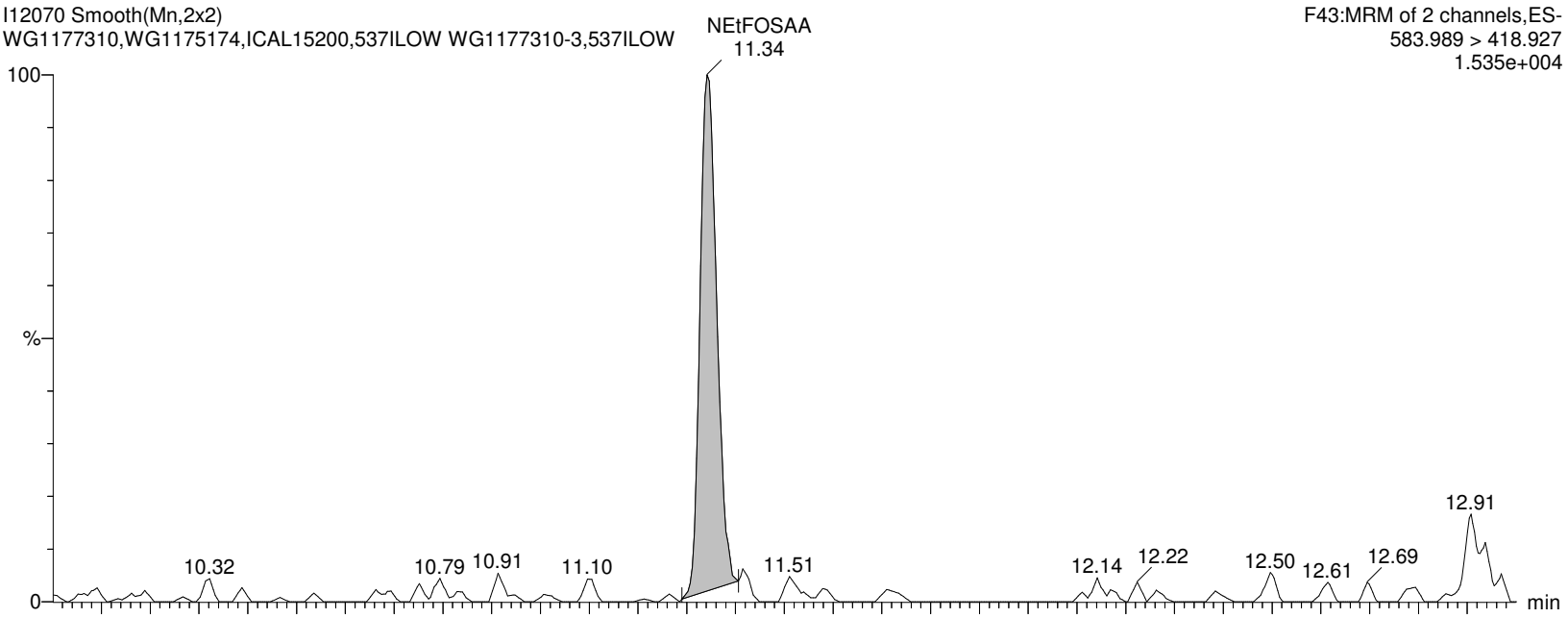

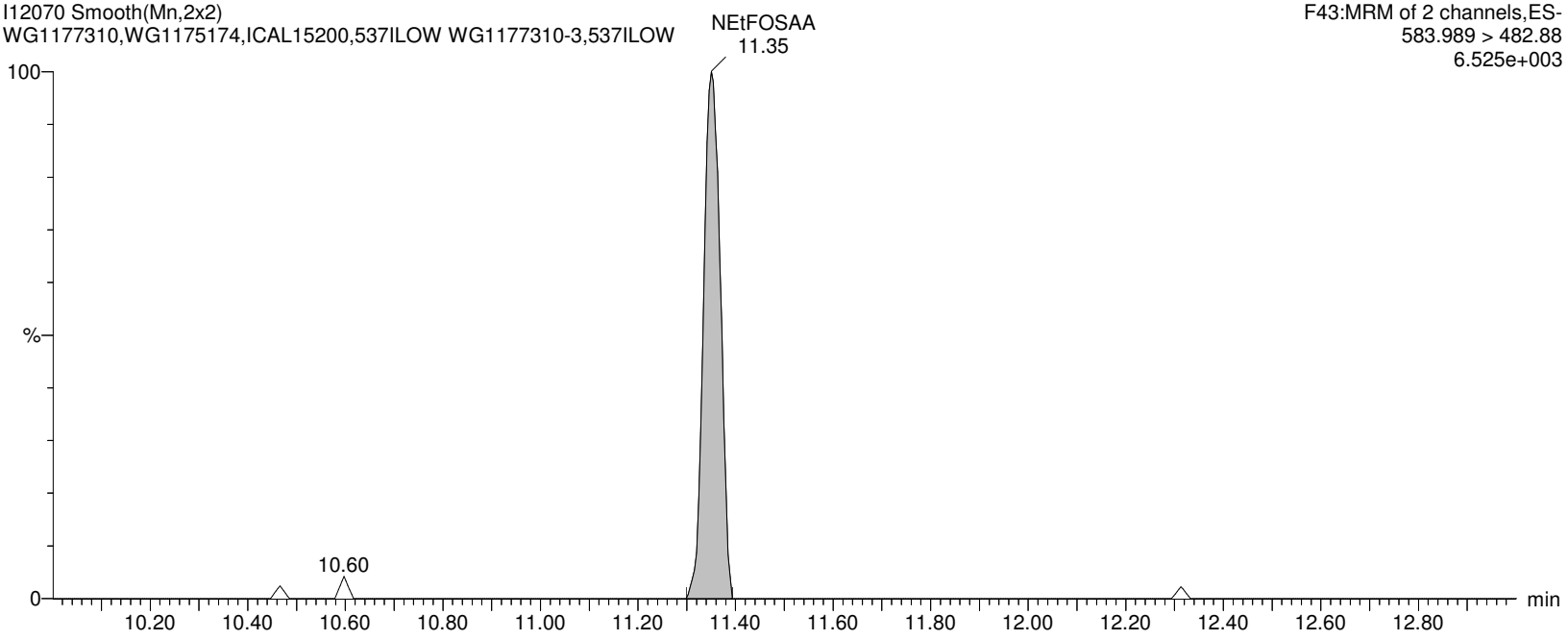

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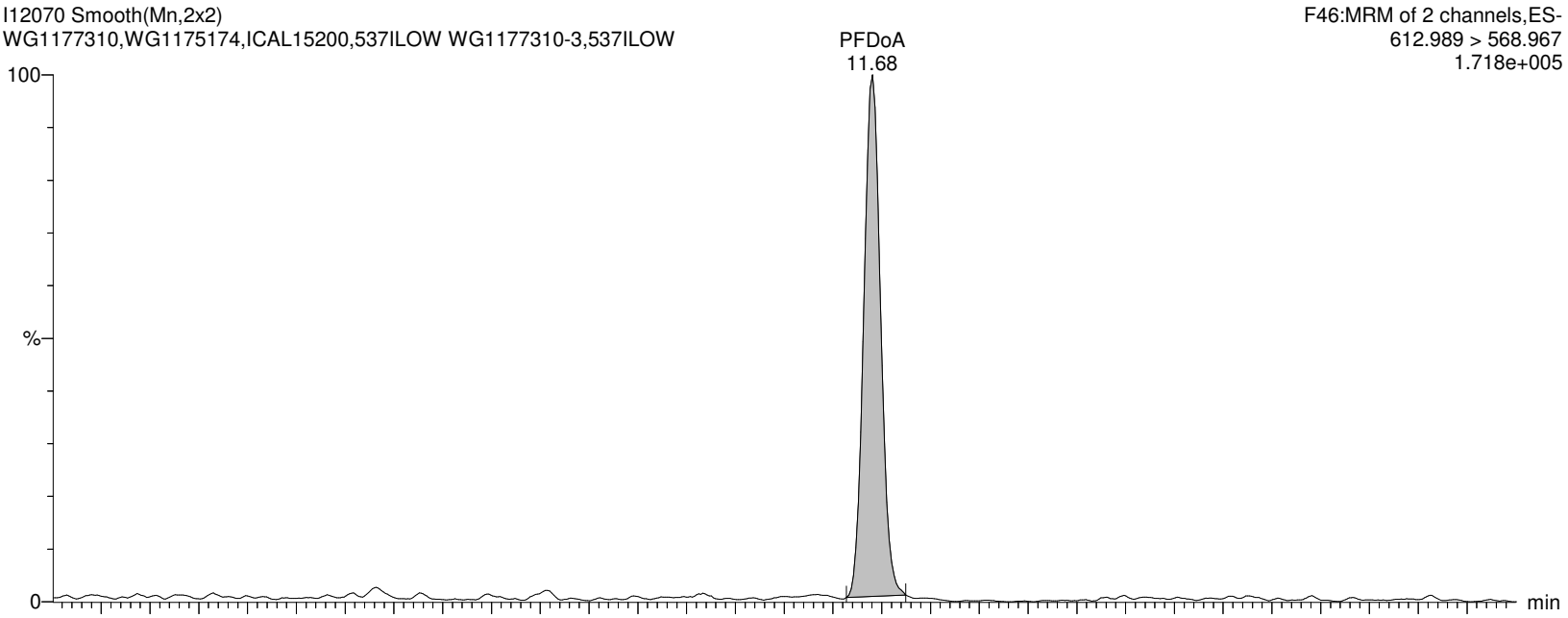

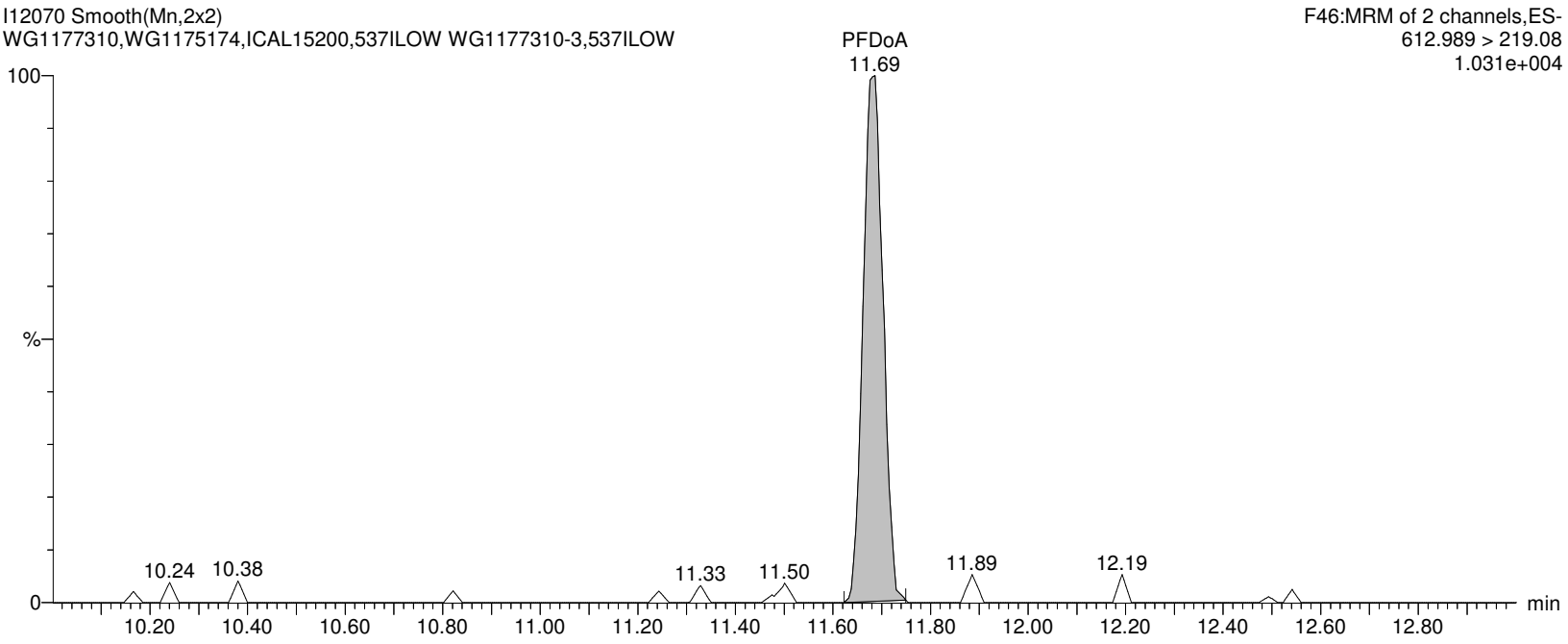

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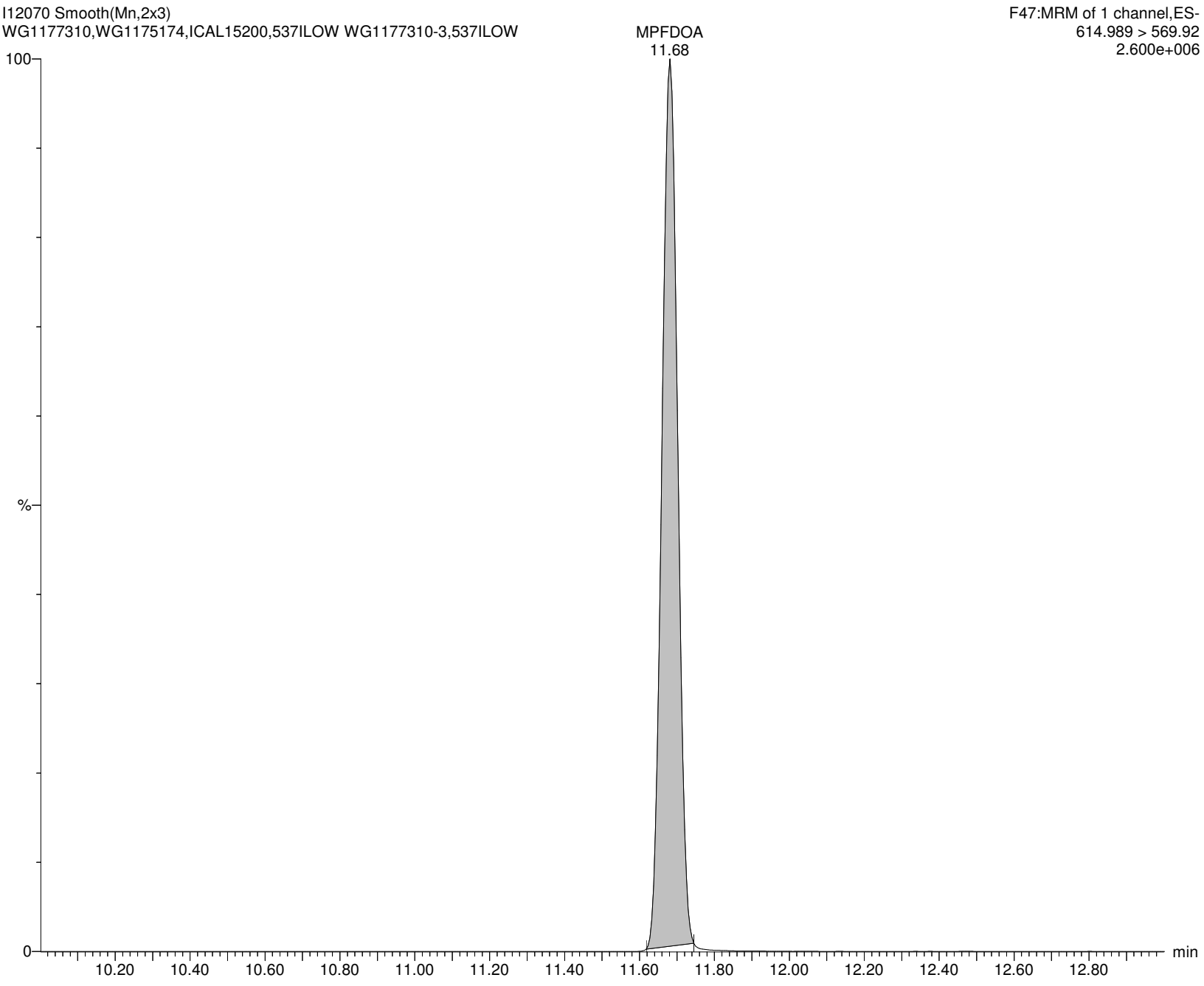

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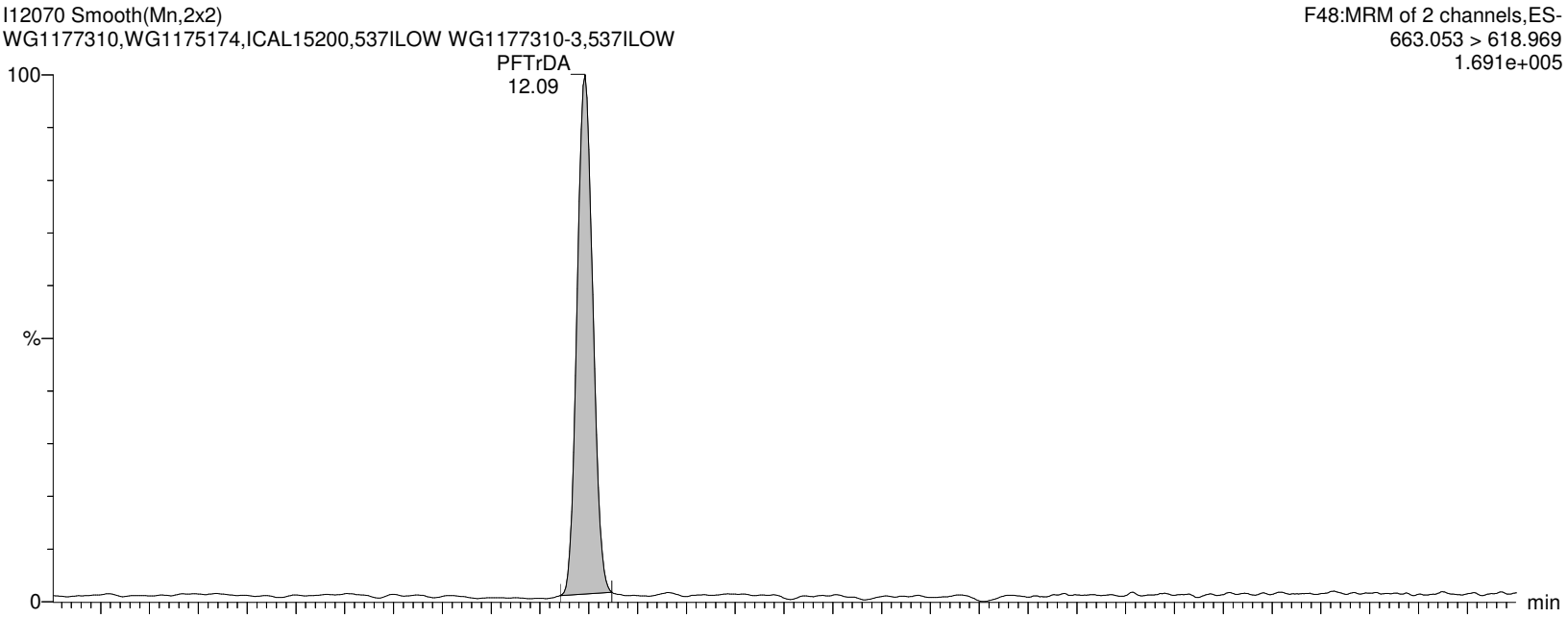

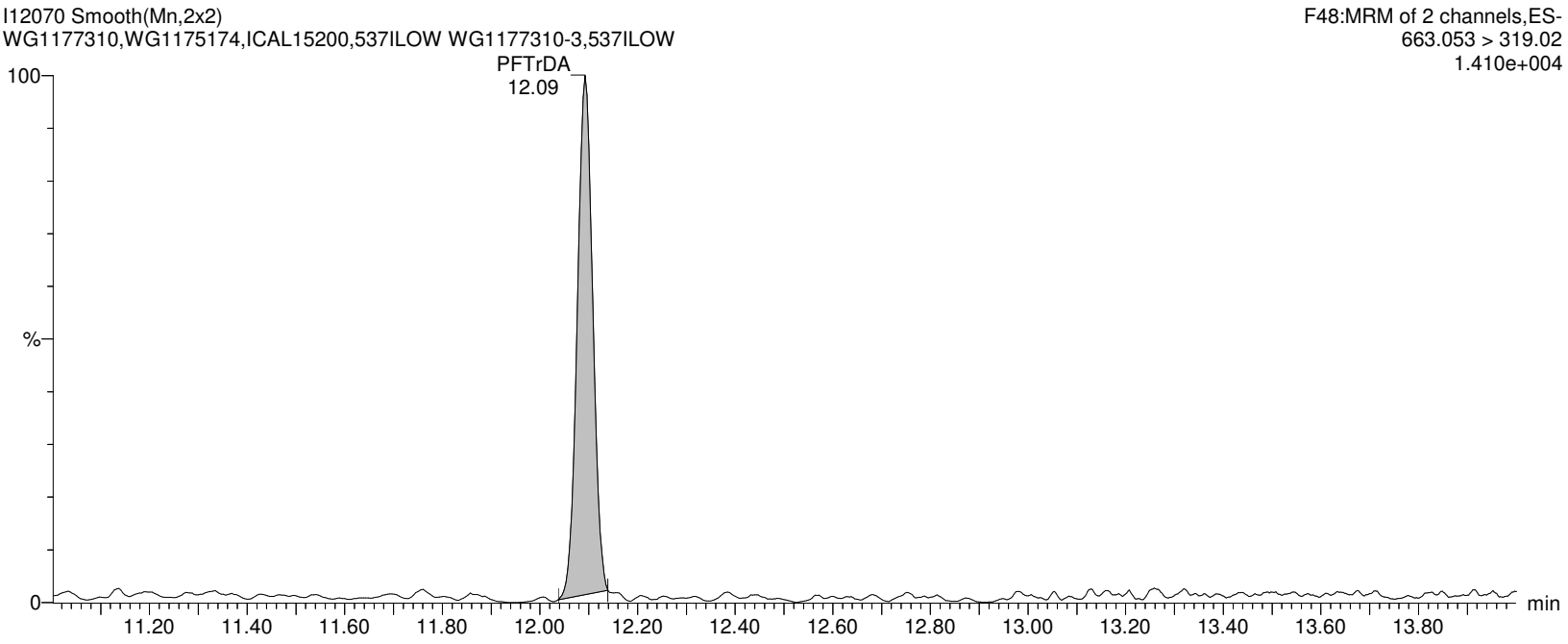

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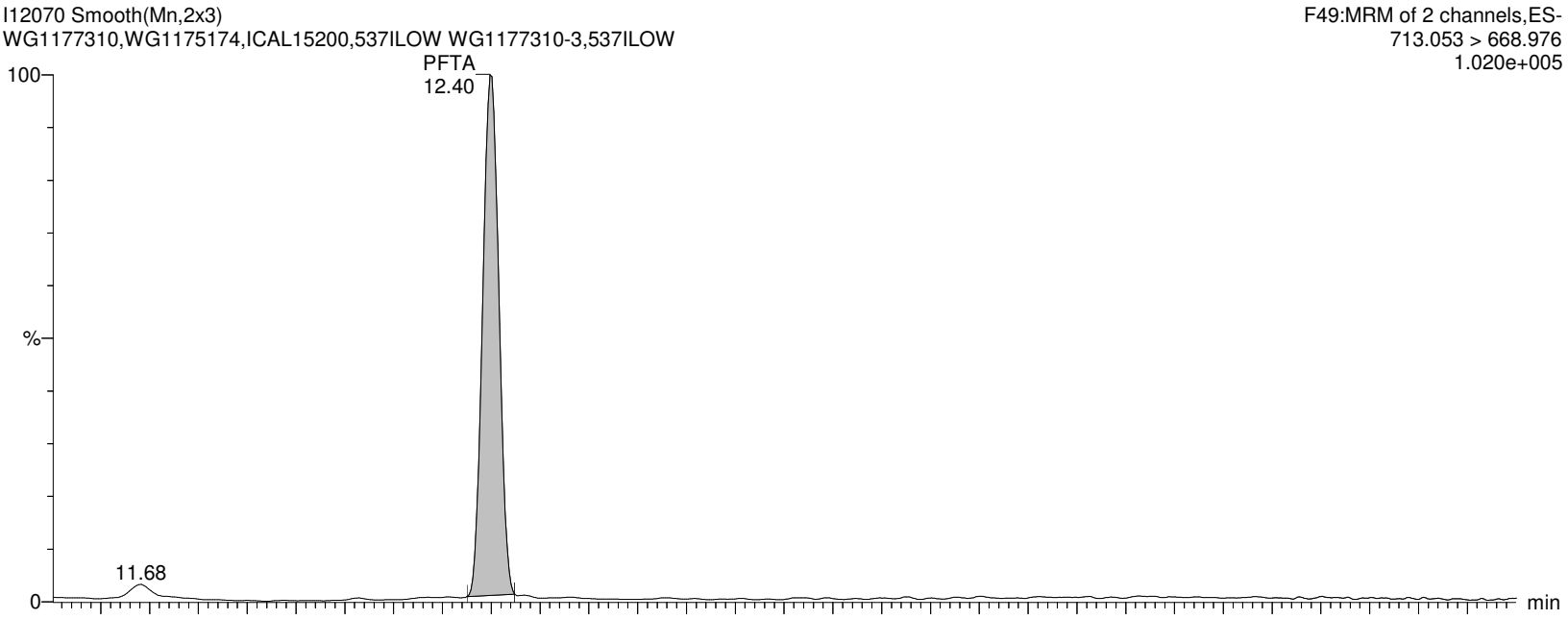

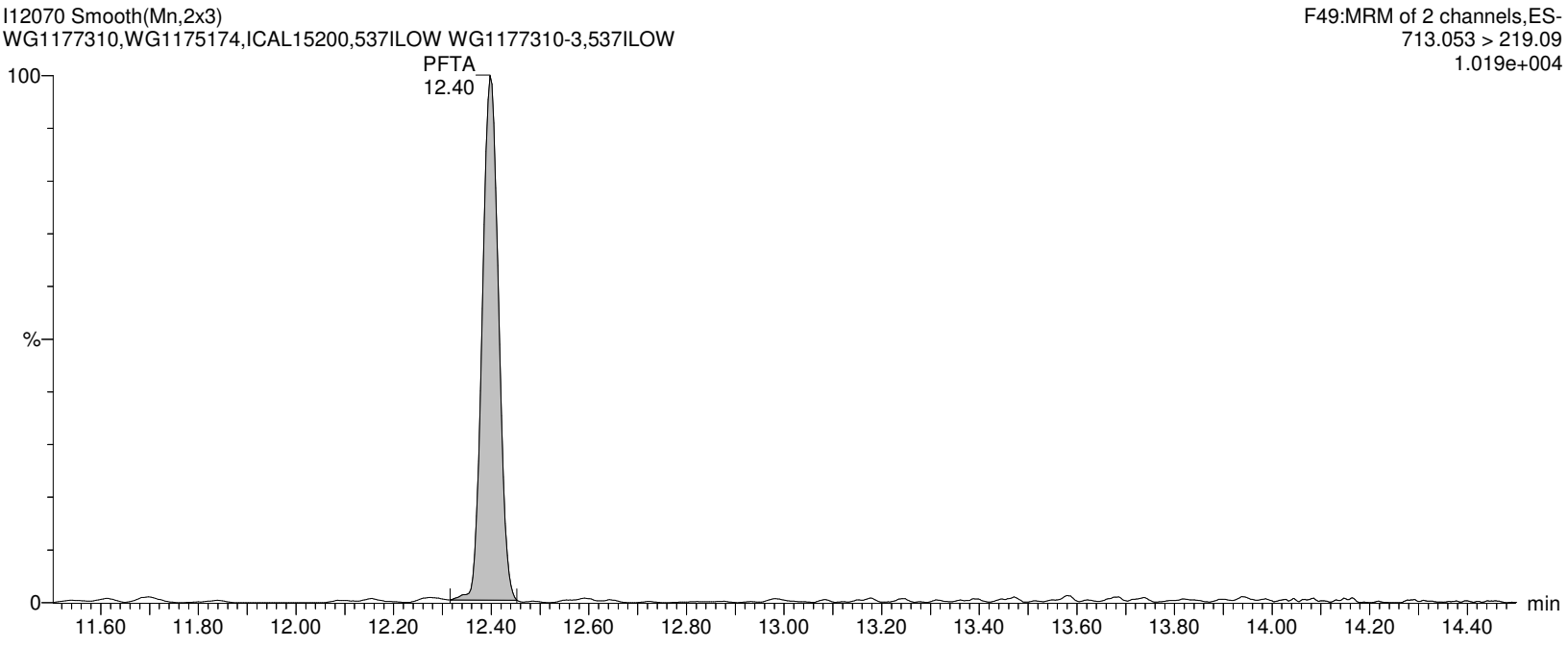

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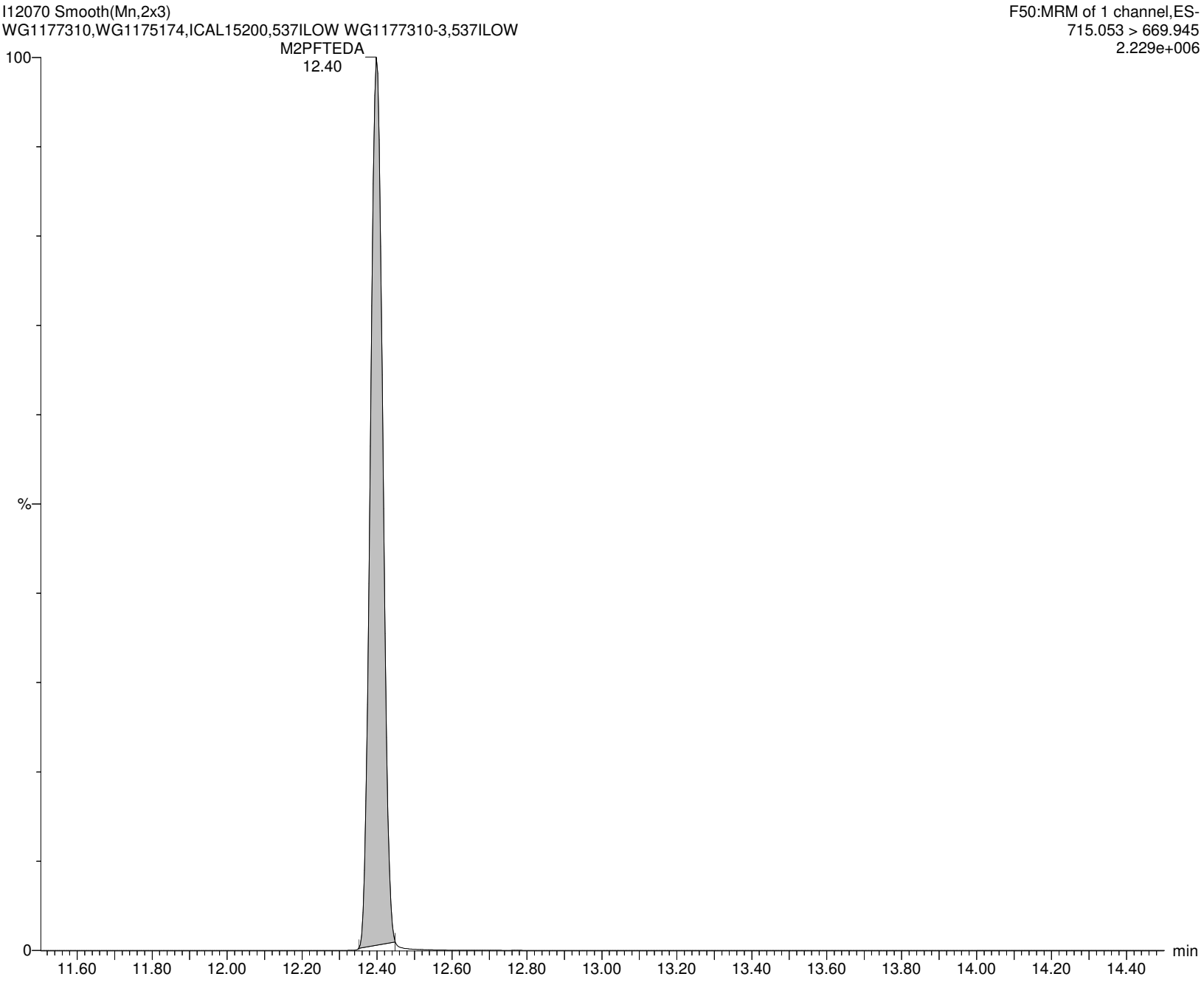

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819D.qld
Last Altered: Monday, November 12, 2018 11:59:03 Eastern Standard Time
Printed: Monday, November 12, 2018 12:00:03 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1177819-5,537ILOW
Name: I12144
Date: 10-Nov-2018
Time: 04:39:27
Description: WG1177819,WG1173825,ICAL15200,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	3032		0.493		na	98.6
2	M3PFBA	INT STD	2.16	215.926 > 172.122	76229		8.235		na	82.4
3	MPFBA	INT STD	2.16	216.926 > 172.137	70359		9.717		na	97.2
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	4410		0.509		na	101.9
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	91851		9.830		na	98.3
6	PFBS	375-73-5	5.81	298.989 > 80.295	812		0.495		na	111.9
7	M3PFBS	INT STD	5.81	301.989 > 80.254	18492		7.984		na	79.8
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	361		0.455	1.69	NO	97.4
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	7809		5.436		na	54.4
10	PFHxA	307-24-4	7.07	312.989 > 269.028	5849		0.500		na	100.1
11	M5PFHxA	INT STD	7.07	317.989 > 273.045	120471		8.615		na	86.2
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	945		0.392	2.05	NO	83.5
13	PFHpA	375-85-9	8.34	362.926 > 319.014	7577		0.487	4.86	NO	97.3
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	158166		9.620		na	96.2
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	129		0.057	2.18	YES	67.2
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	721		0.367	1.35	NO	99.2
17	PFHxS	355-46-4		398.926 > 80.295	850		0.424		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	13925		10.825		na	108.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	7727		0.523	9.00	NO	104.5
21	M2PFOA	INT STD	9.28	415.032 > 369.968	194096		10.280		na	102.8
22	PFOA	335-67-1		412.989 > 368.9	7727		0.523		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	151550		9.682		na	96.8
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	338		0.548		na	115.4
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	6143		5.151		na	51.5
26	PFHpS	375-92-8	9.38	448.926 > 80.257	452		0.439	0.82	NO	92.4
27	PFNA	375-95-1	10.03	462.989 > 418.931	6185		0.528	5.17	NO	105.5
28	M9PFNA	INT STD	10.03	472.053 > 426.947	140366		8.991		na	89.9
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	240		0.098	4.42	YES	98.3
30	L-PFOS	1763-23-1	10.08	498.989 > 80.294	637		0.367	1.56	YES	100.5
31	PFOS	1763-23-1		498.989 > 80.294	877		0.465		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	18579		11.469		na	114.7
33	M8PFOS	INT STD	10.08	507.053 > 80.294	16631		9.600		na	96.0
34	PFDA	335-76-2	10.65	513.053 > 468.906	5954		0.524	7.68	YES	104.7
35	M2PFDA	INT STD	10.65	515.053 > 469.934	147221		9.903		na	99.0
36	M6PFDA	INT STD	10.65	519.053 > 473.931	128182		9.643		na	96.4
37	8:2FTS	39108-34-4	10.63	526.989 > 506.946	165		0.369		na	76.8
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	3620		5.169		na	51.7
39	PFNS	68259-12-1	10.68	548.989 > 80.249	775		0.644	1.95	YES	134.2

all concentration units in (ng/mL)

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Name: I12144
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	9907		6.913		na	69.1
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	489		0.491		na	98.1
42	PFUnA	2058-94-8	11.20	562.989 > 518.903	5690		0.504	7.62	NO	100.9
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	113561		10.207		na	102.1
44	PFDS	335-77-3	11.21	598.926 > 80.314	622		0.622	1.38	YES	129.0
45	FOSA	754-91-6	11.11	497.989 > 78.245	2336		0.486		na	97.2
46	M8FOSA	INT STD	11.11	506.053 > 78.286	49137		10.361		na	103.6
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	8719		6.307		na	63.1
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	493		0.553	3.16	NO	110.7
49	PFDoA	307-55-1	11.67	612.989 > 568.967	5660		0.524	14.14	NO	104.7
50	MPFDOA	INT STD	11.67	614.989 > 569.92	115925		9.273		na	92.7
51	PFTrDA	72629-94-8	12.08	663.053 > 618.969	4917		0.541	12.29	NO	108.2
52	PFTA	376-06-7	12.39	713.053 > 668.976	3596		0.534	9.12	NO	106.9
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	80155		8.657		na	86.6

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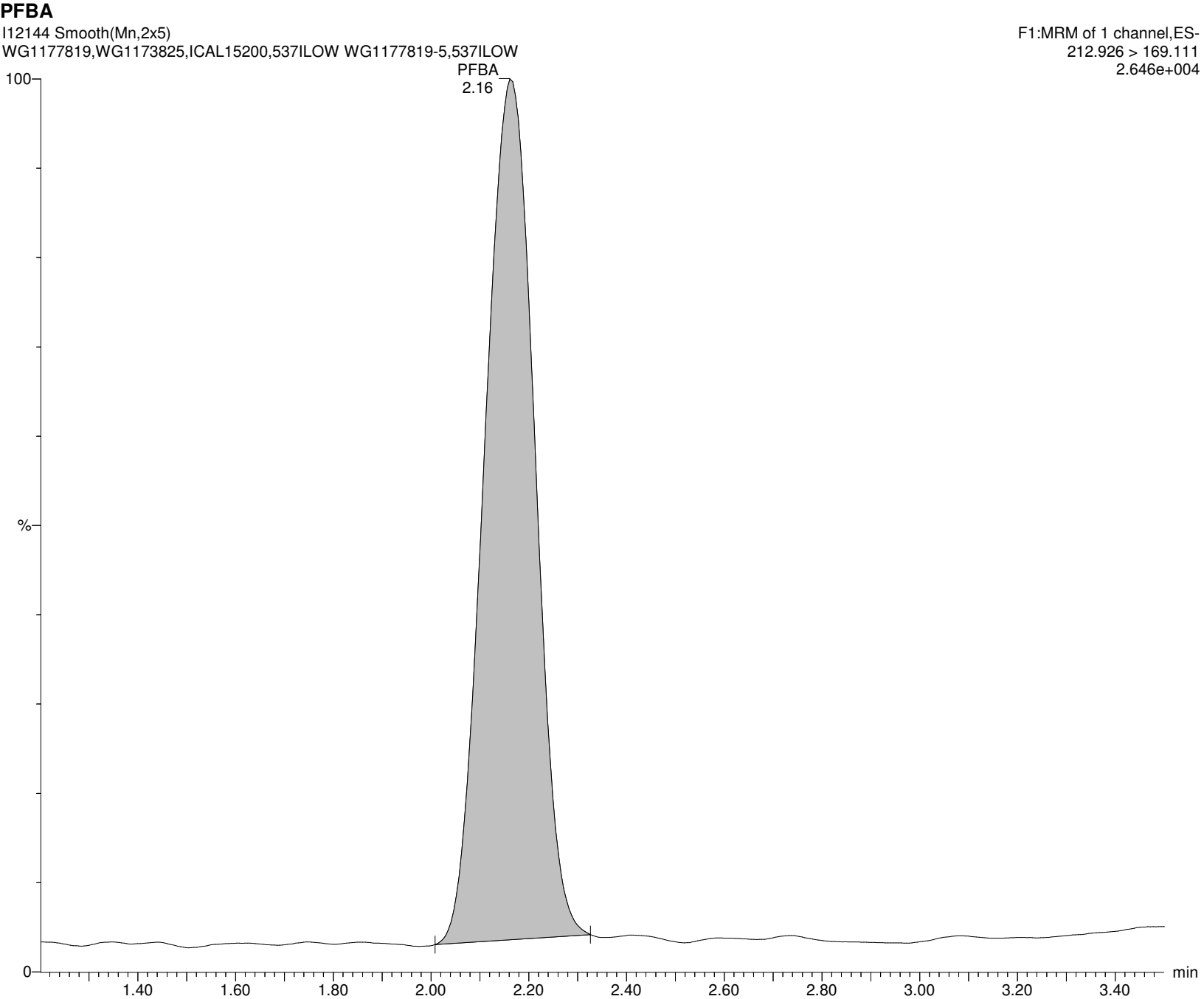

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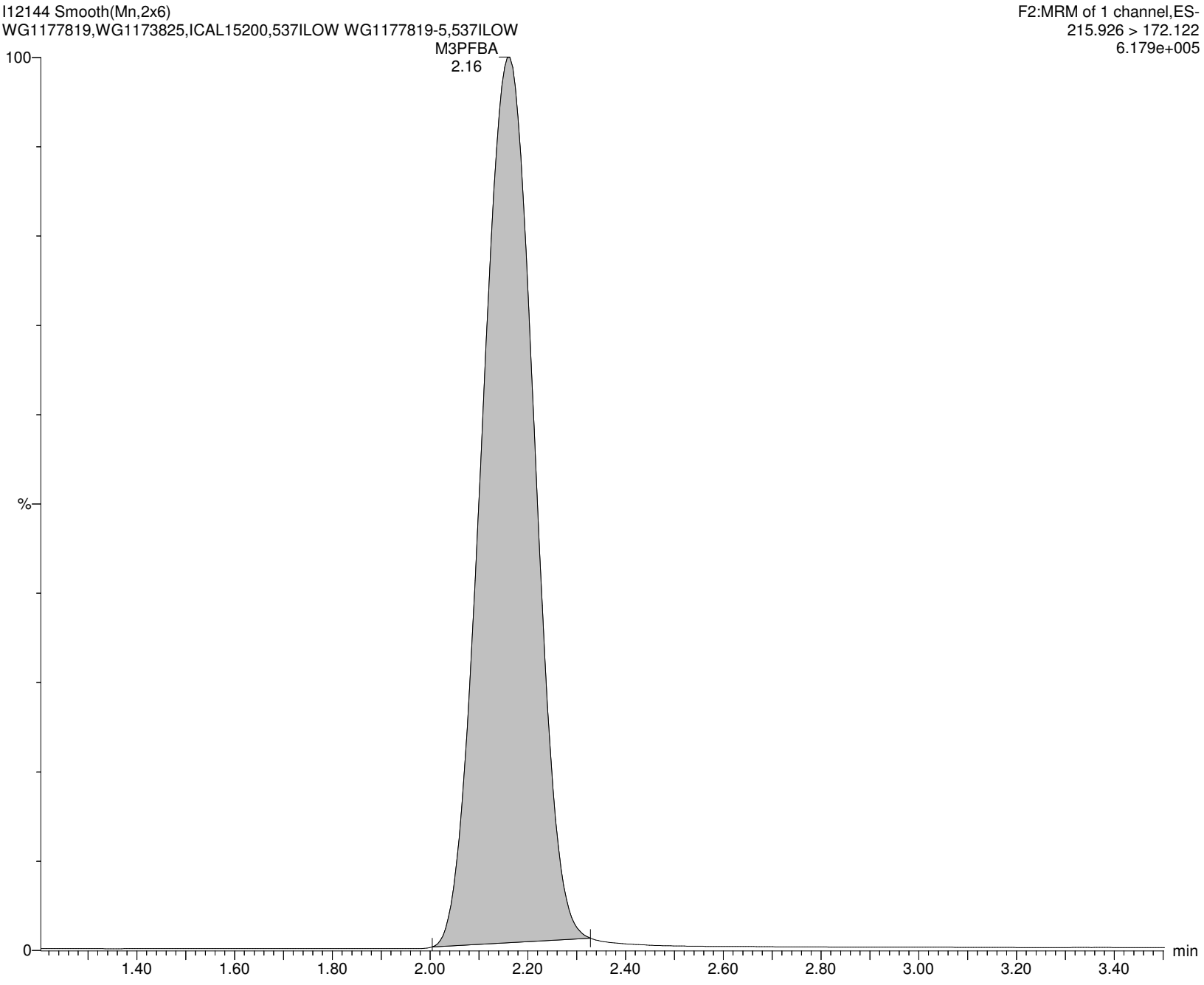

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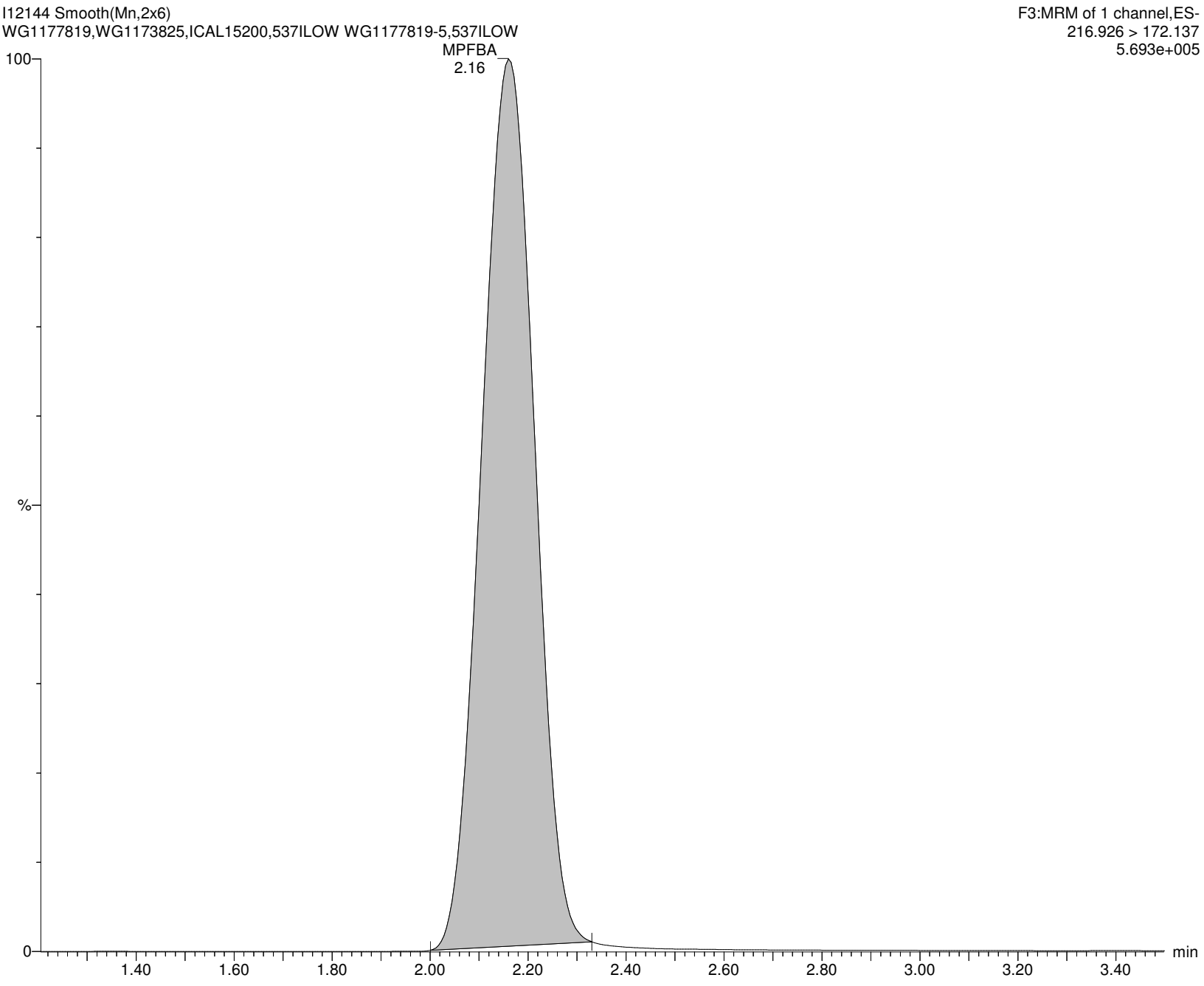

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Name: I12144
ID: WG1177819-5,537ILOW
Date: 10-Nov-2018
Time: 04:39:27
Description: WG1177819,WG1173825,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
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Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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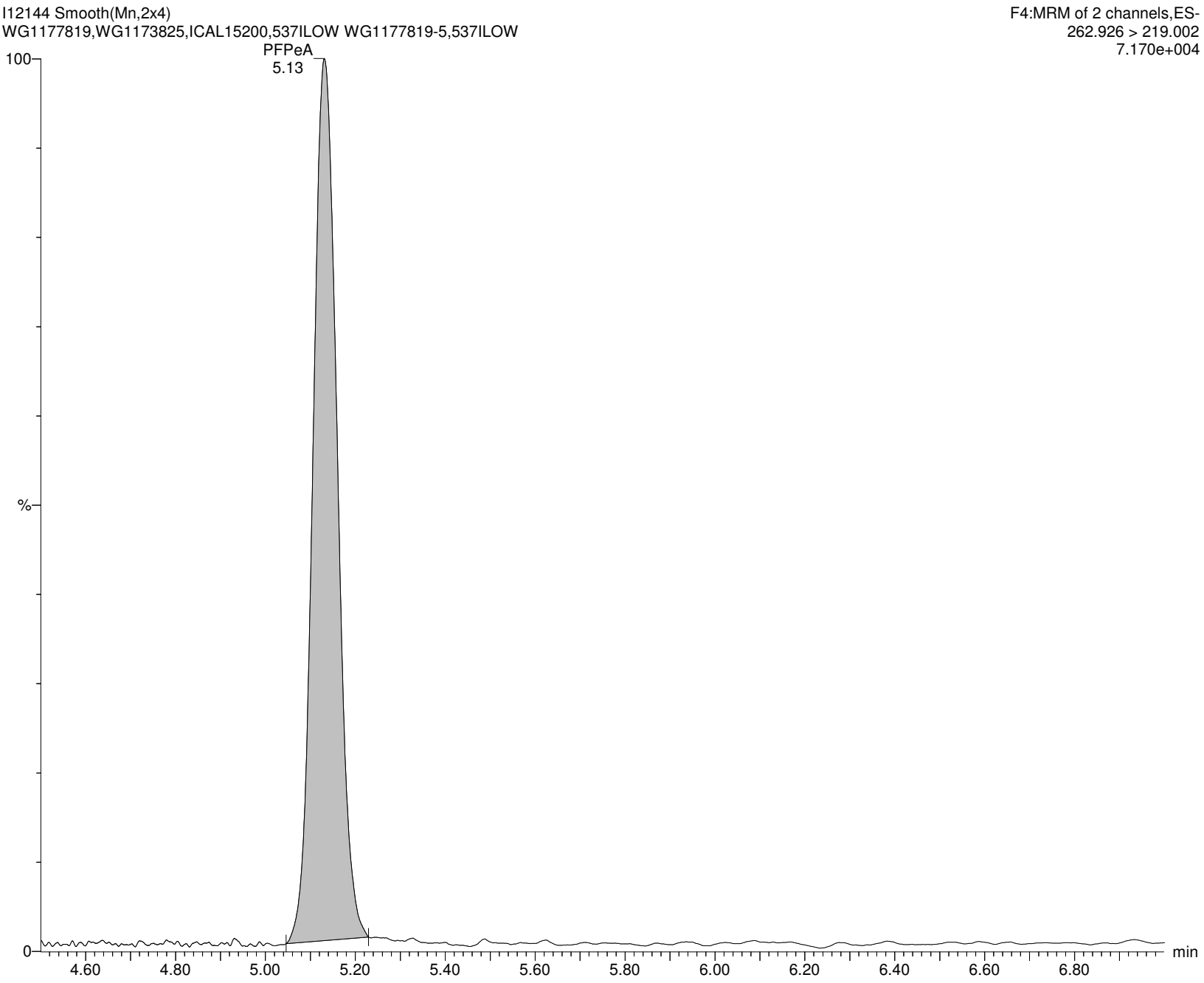

all concentration units in (ng/mL)

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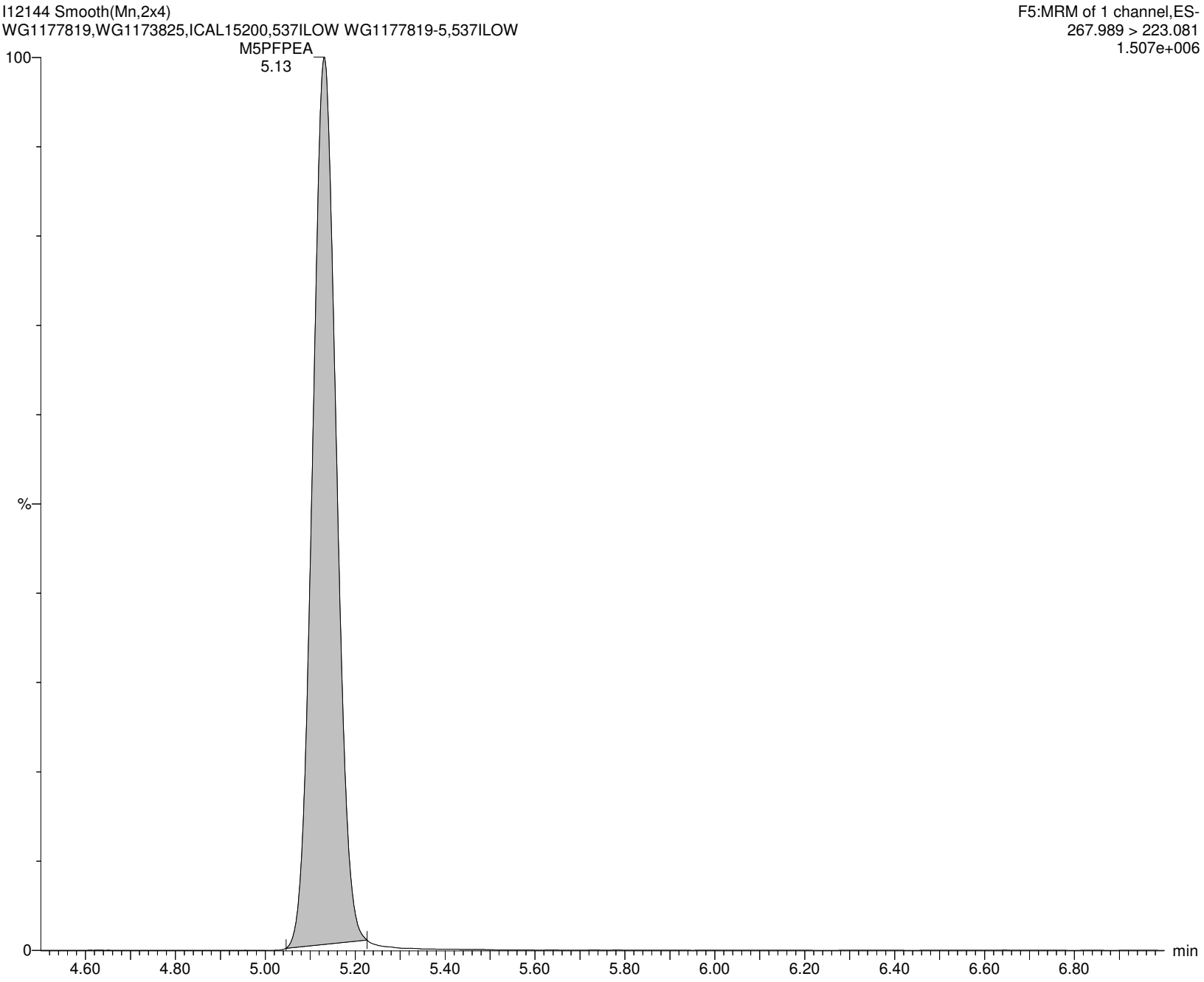

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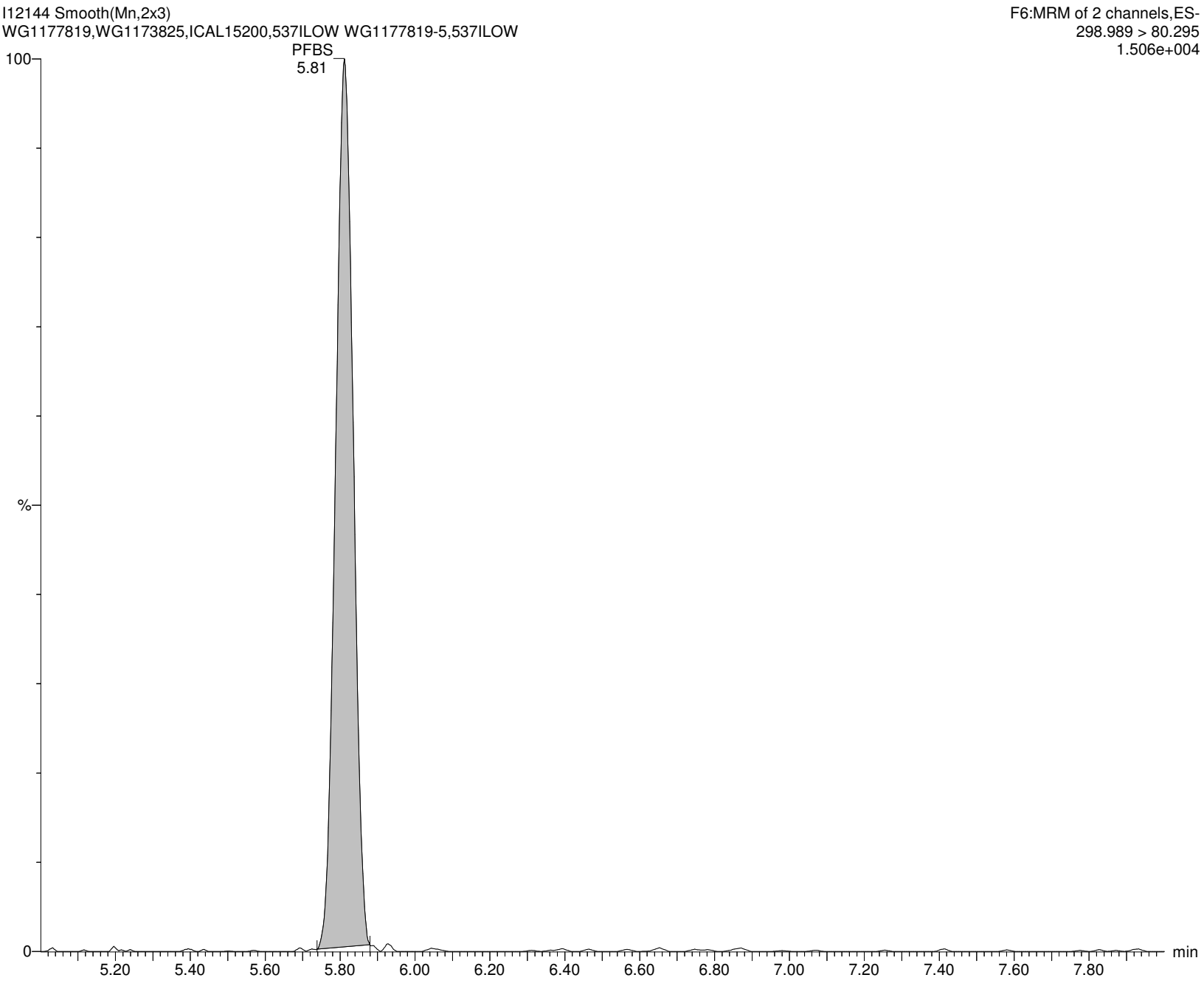

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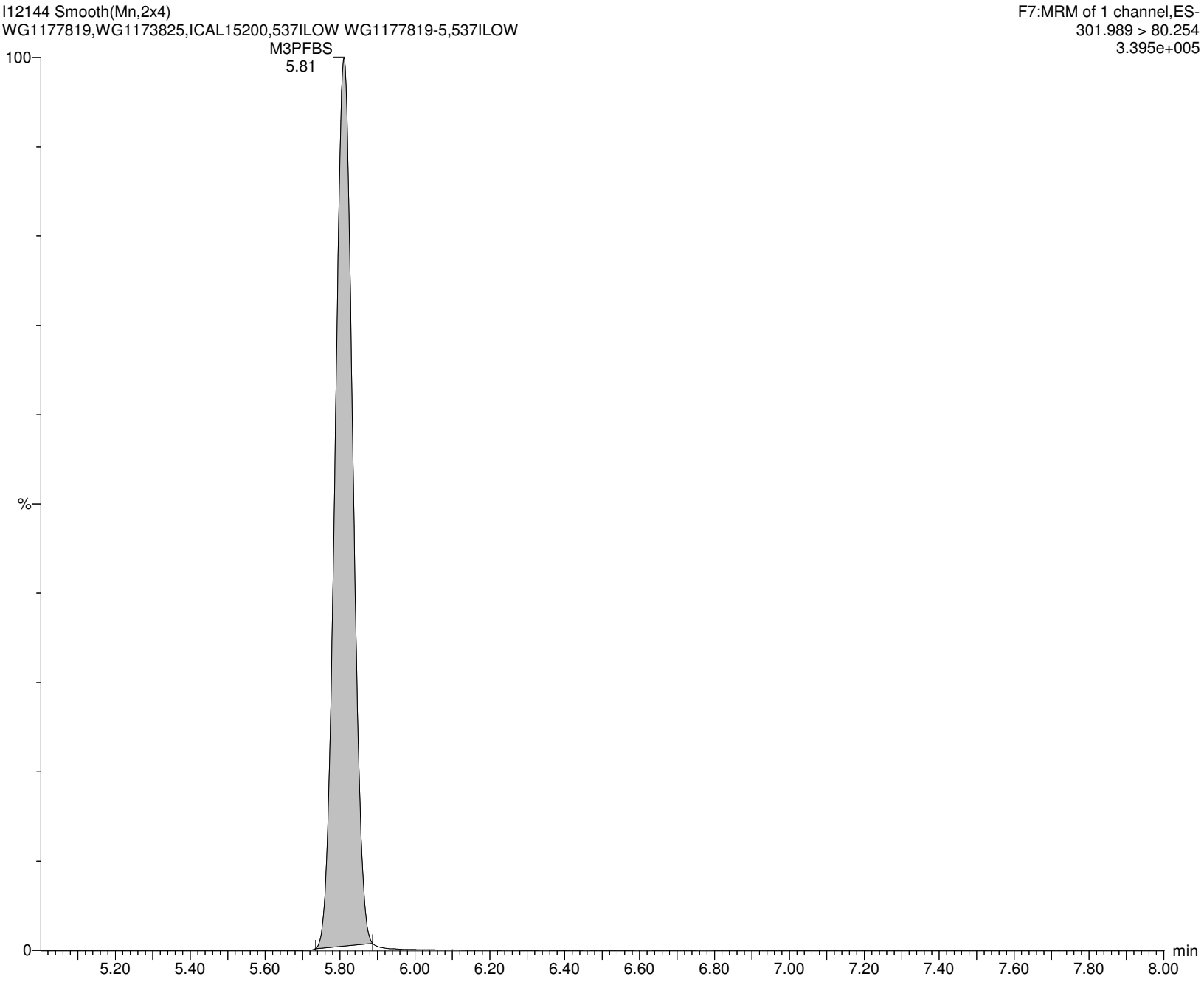

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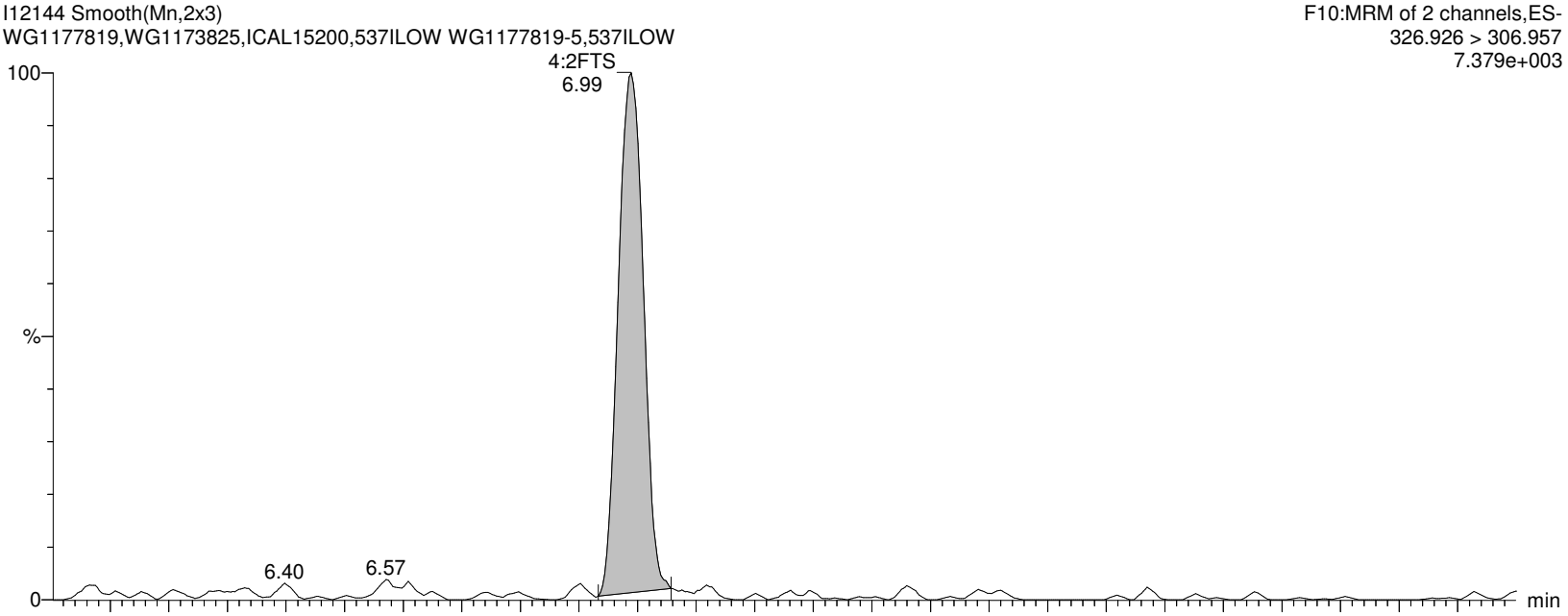

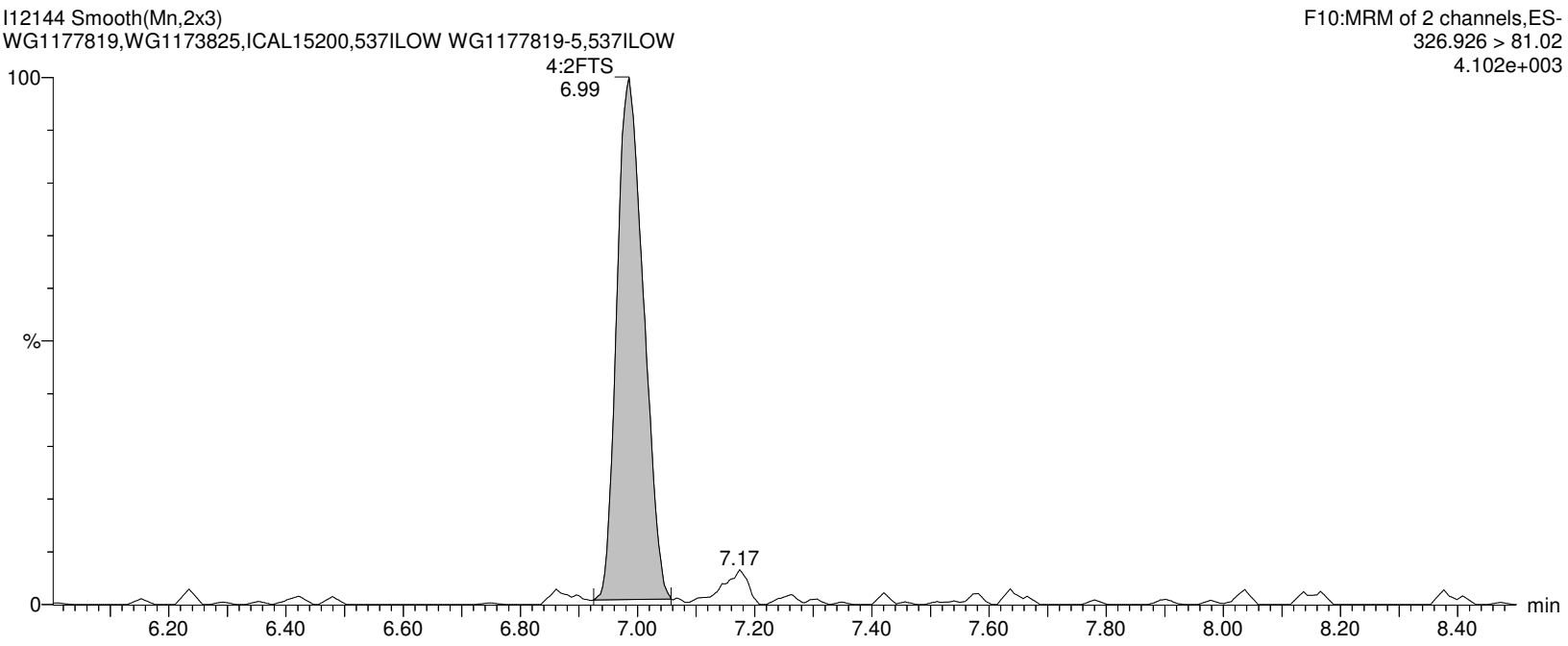

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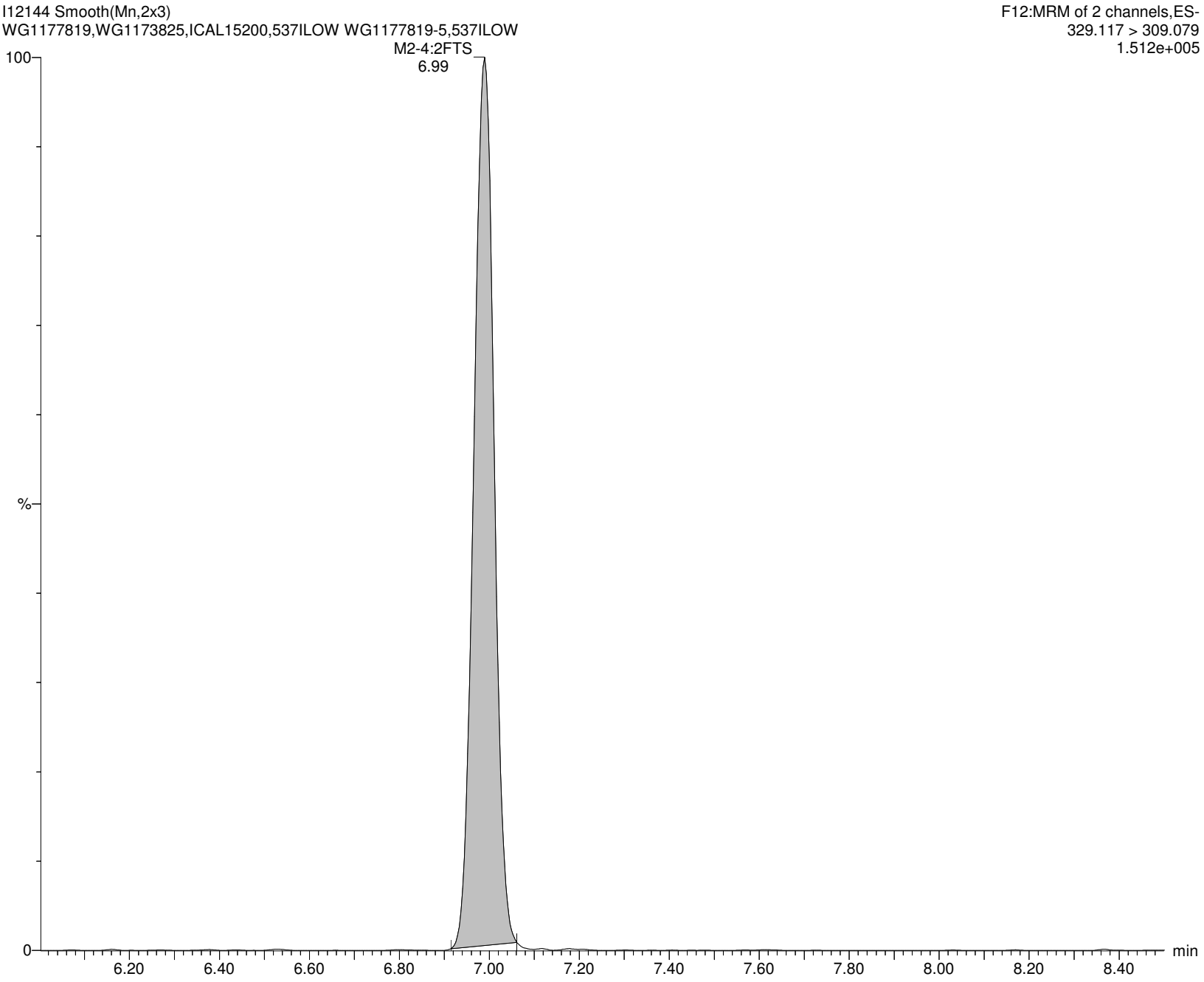

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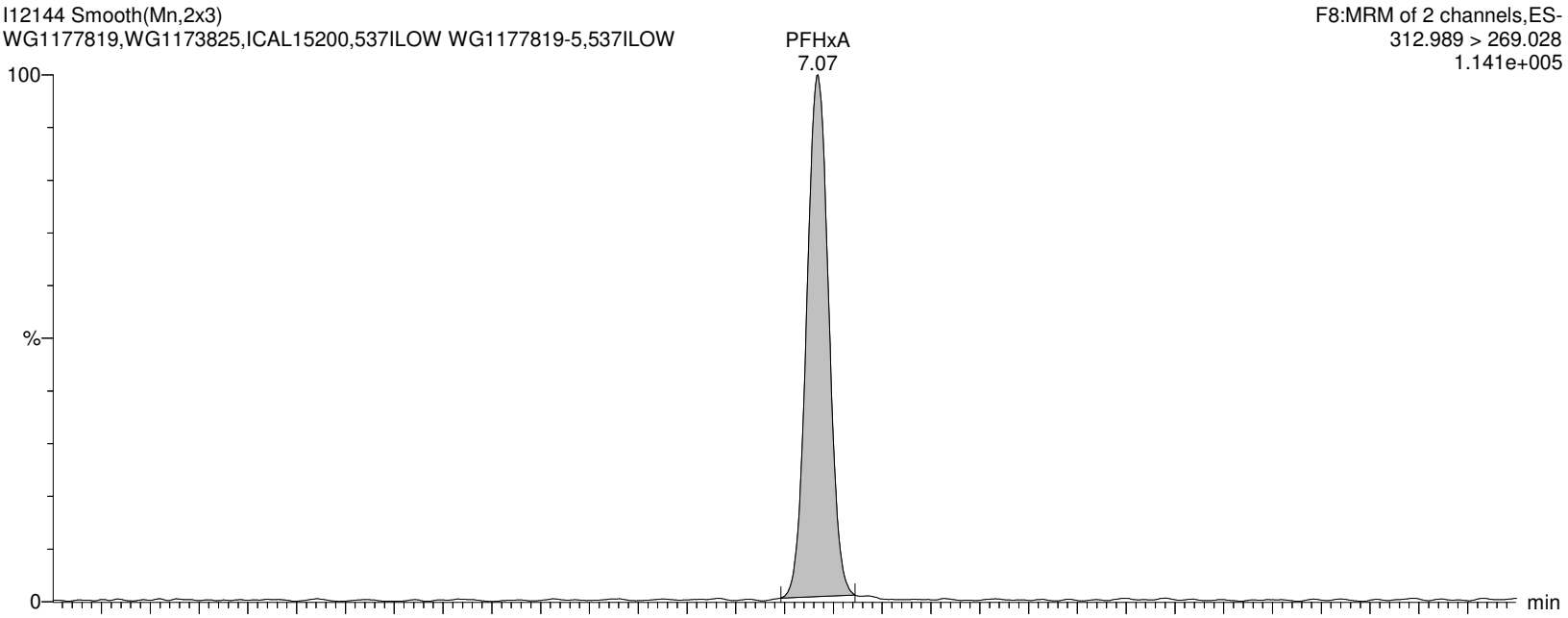

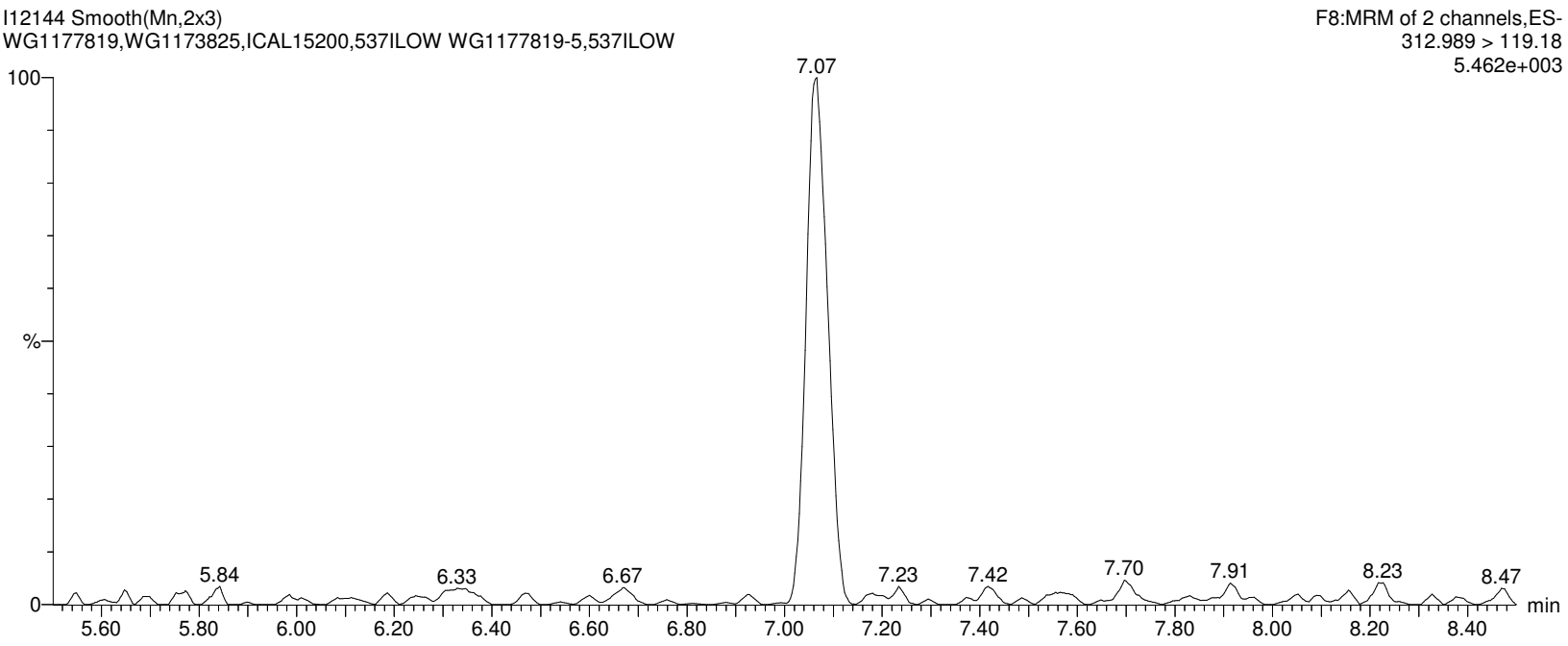

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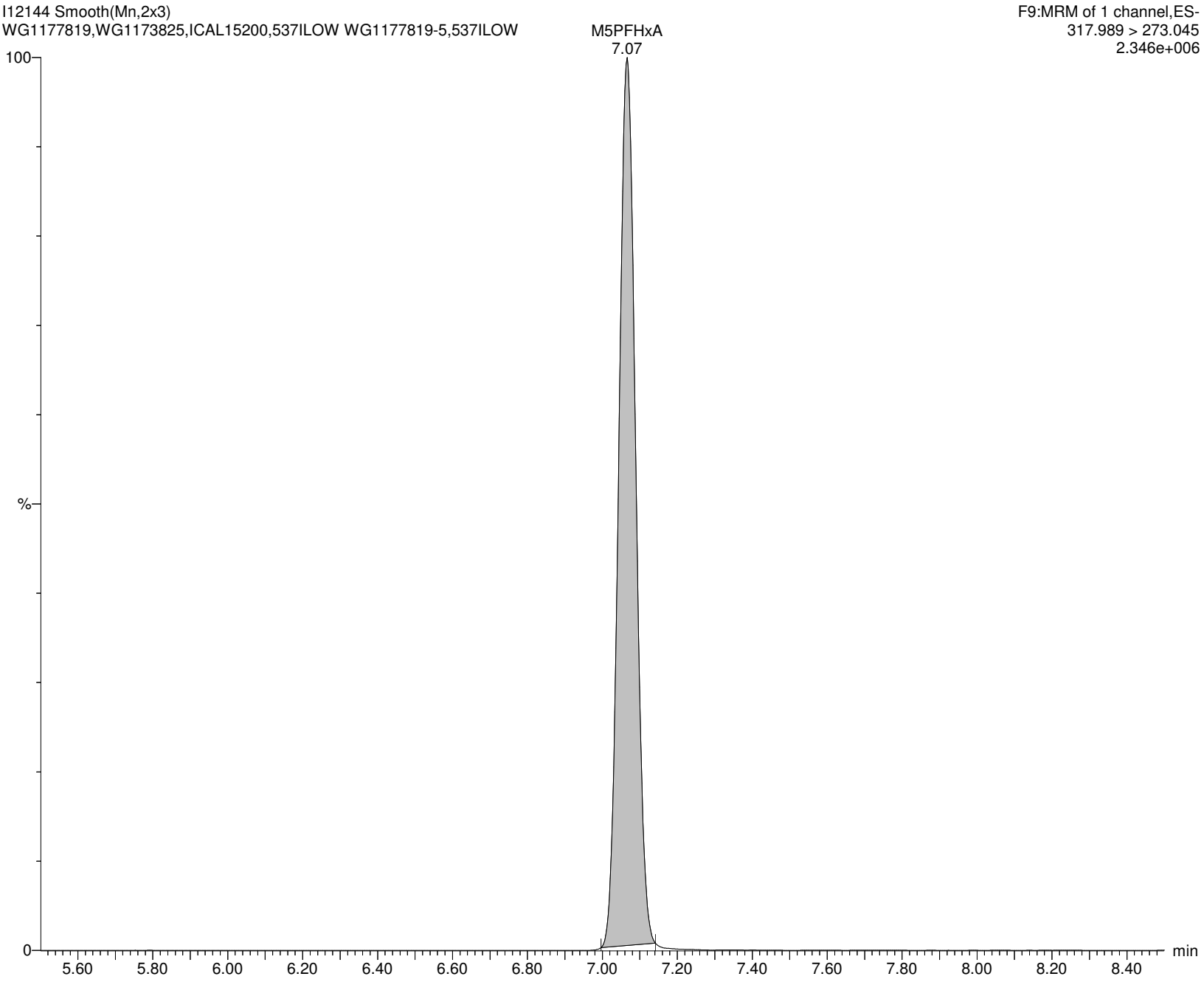

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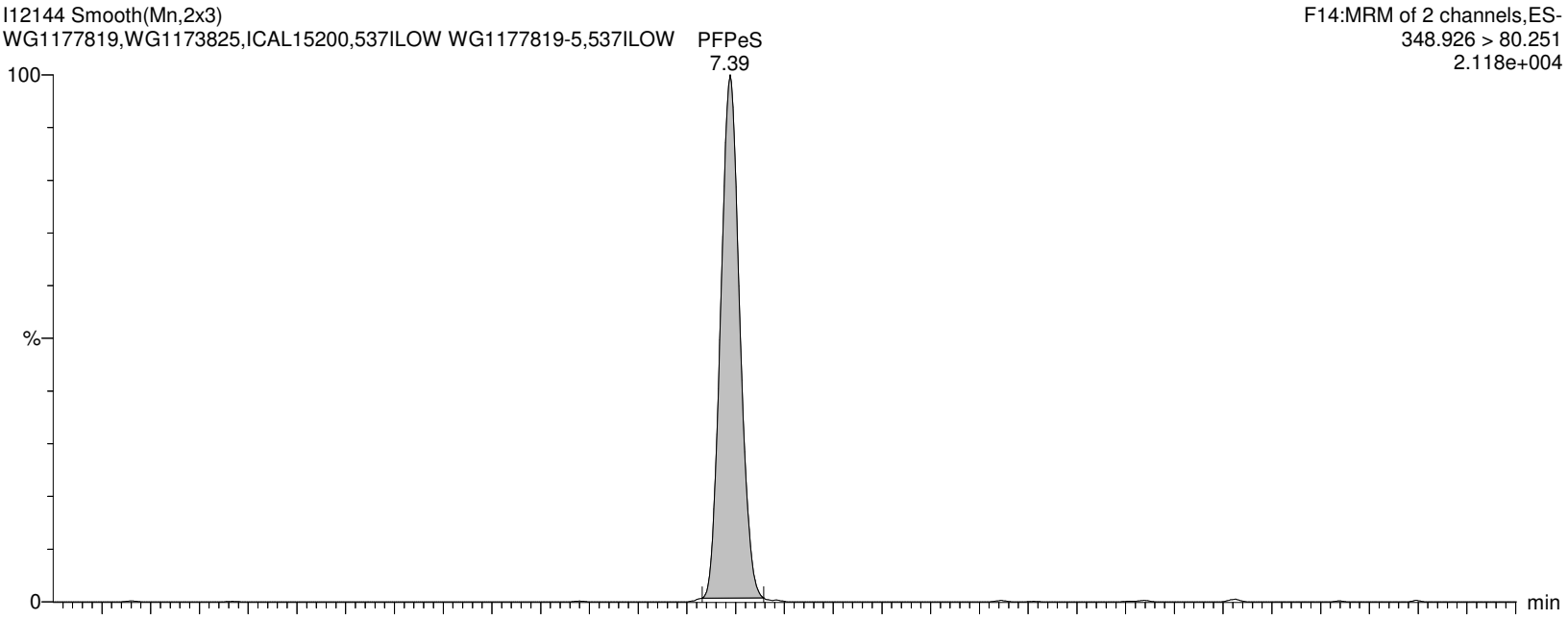

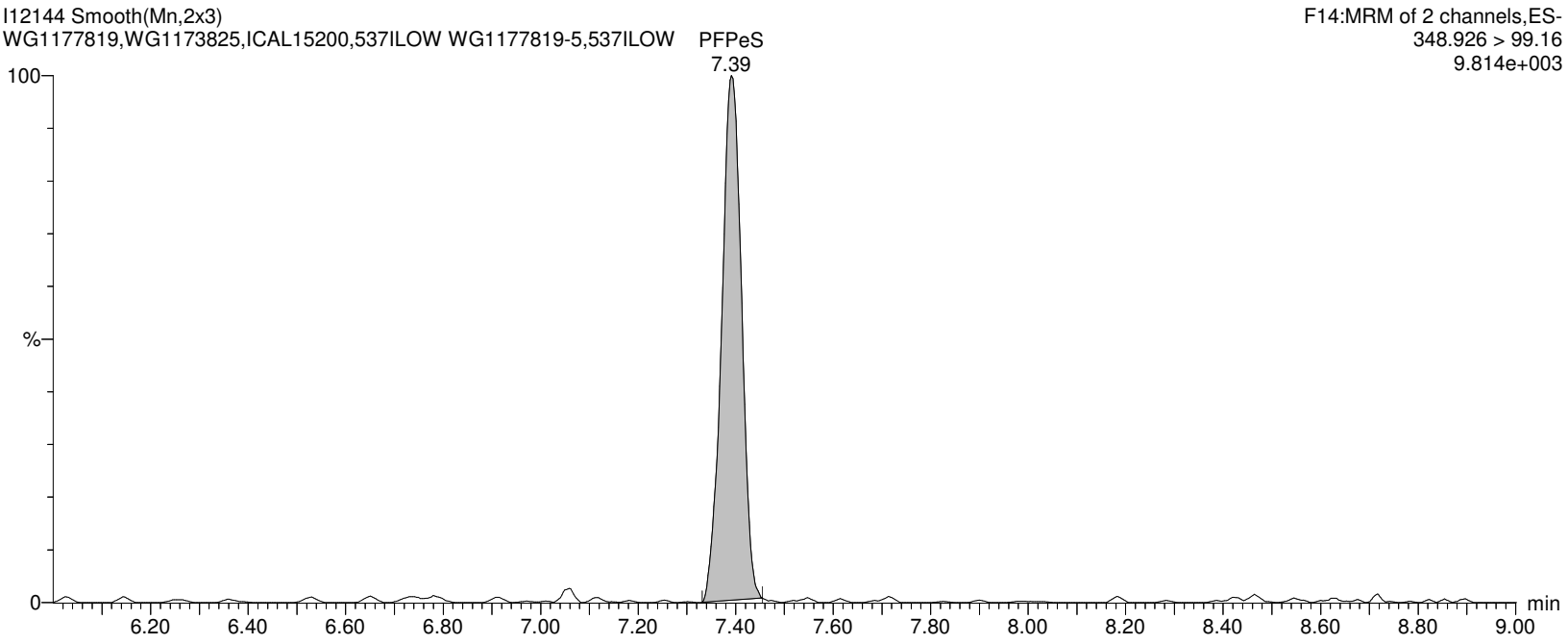

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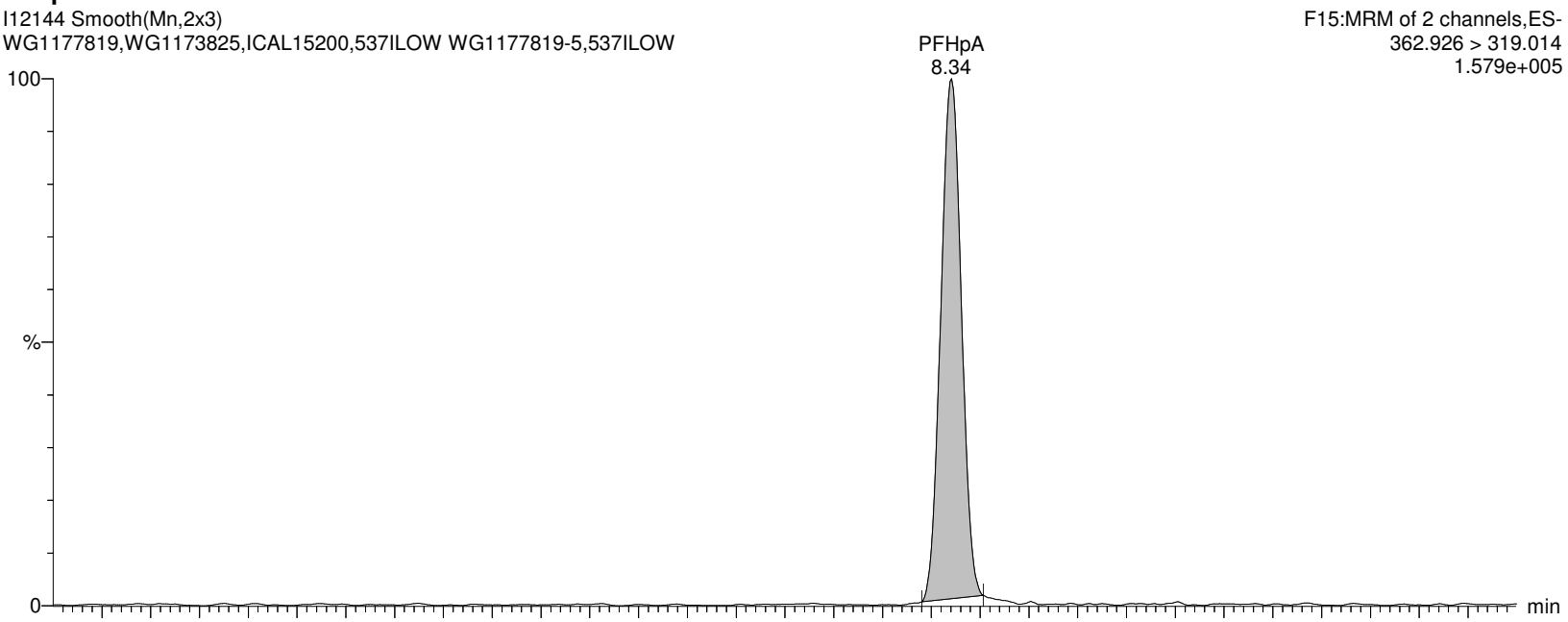

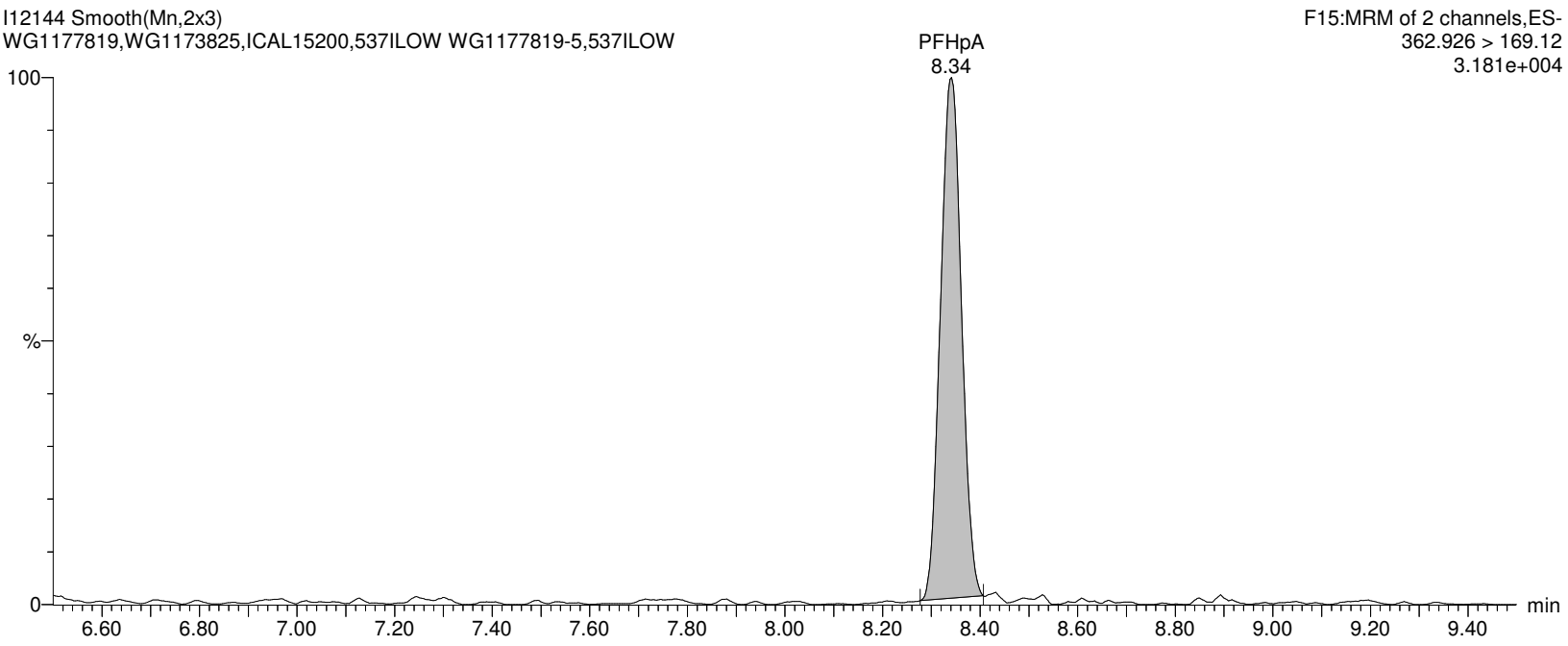

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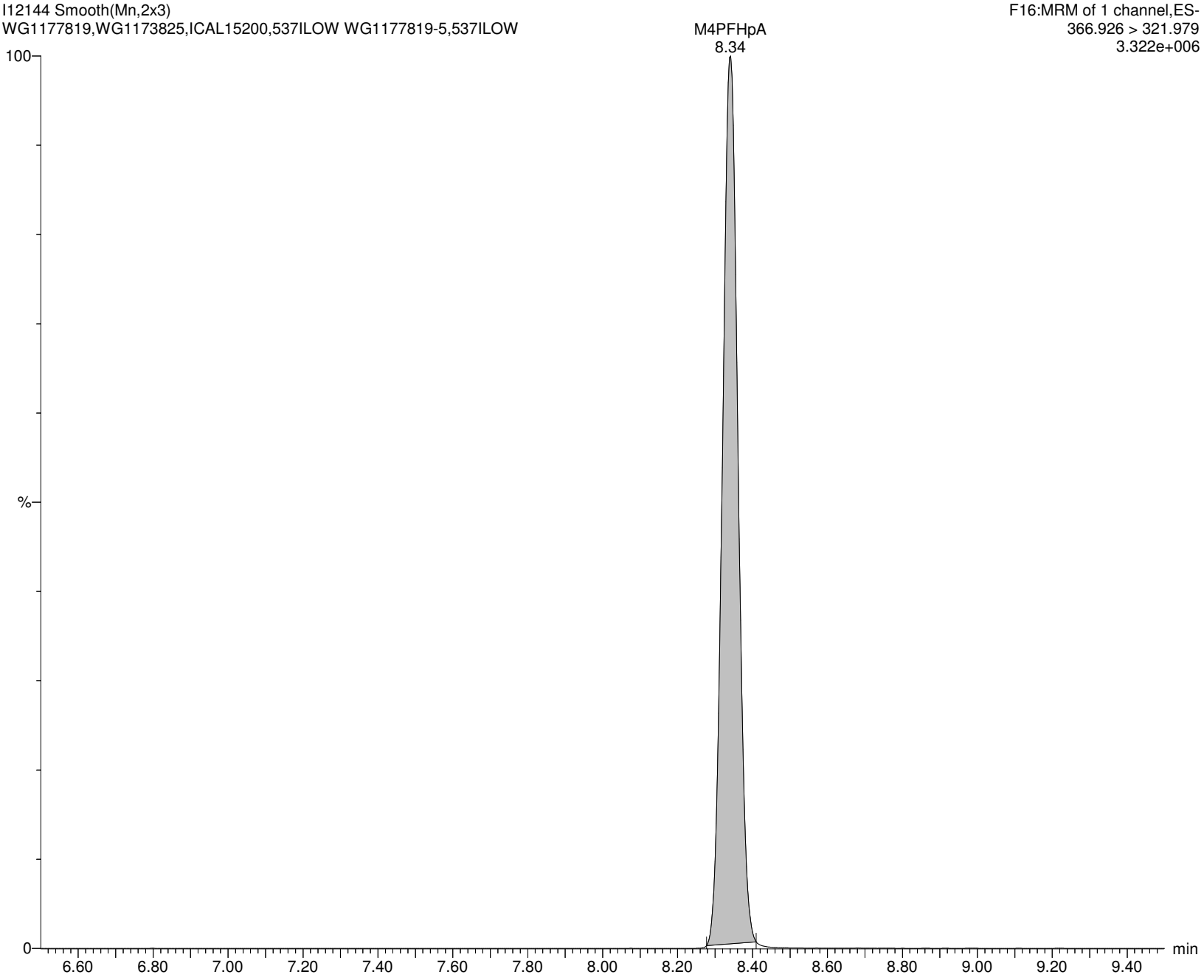

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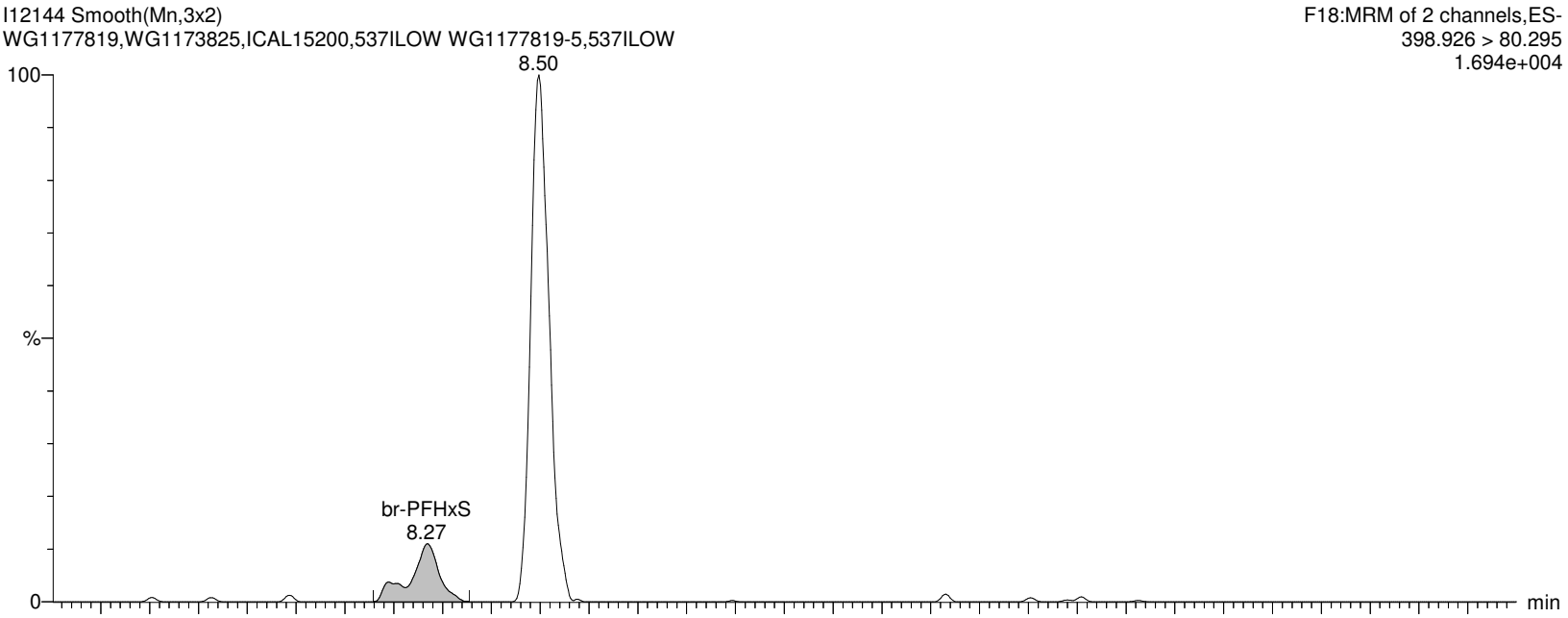

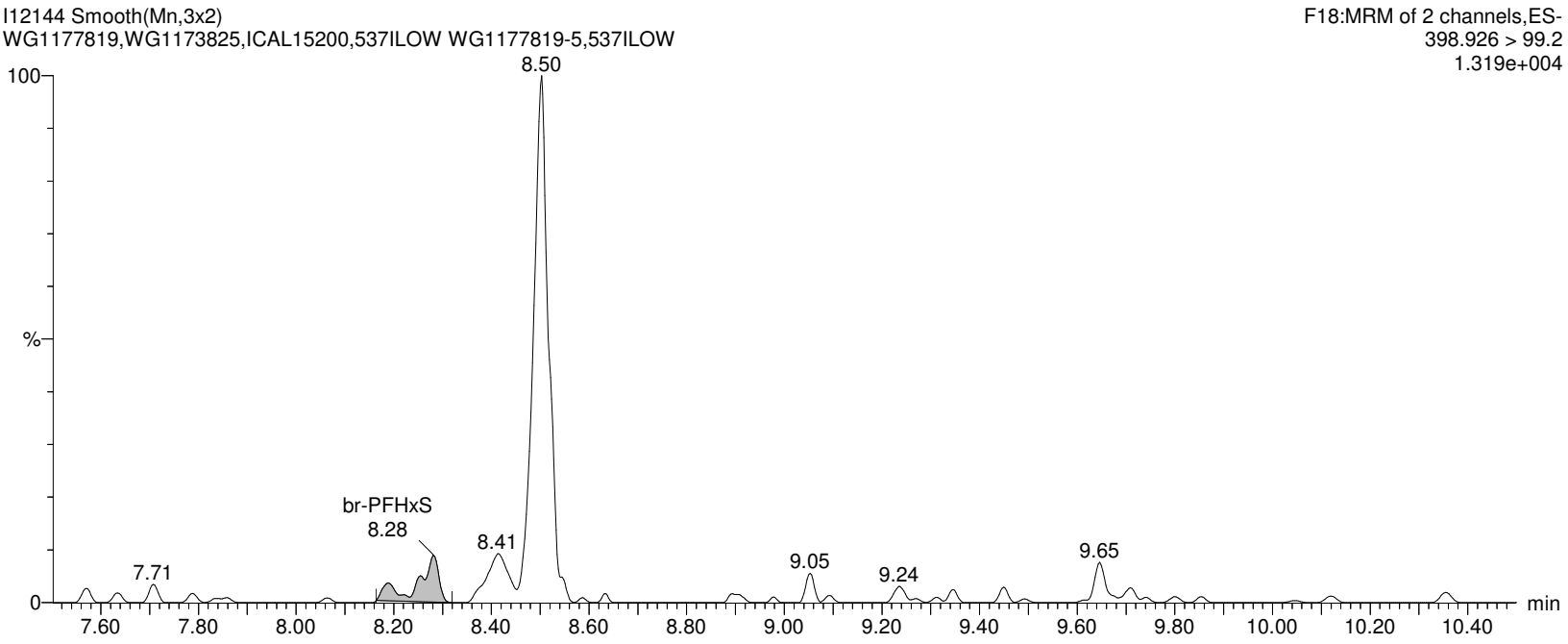

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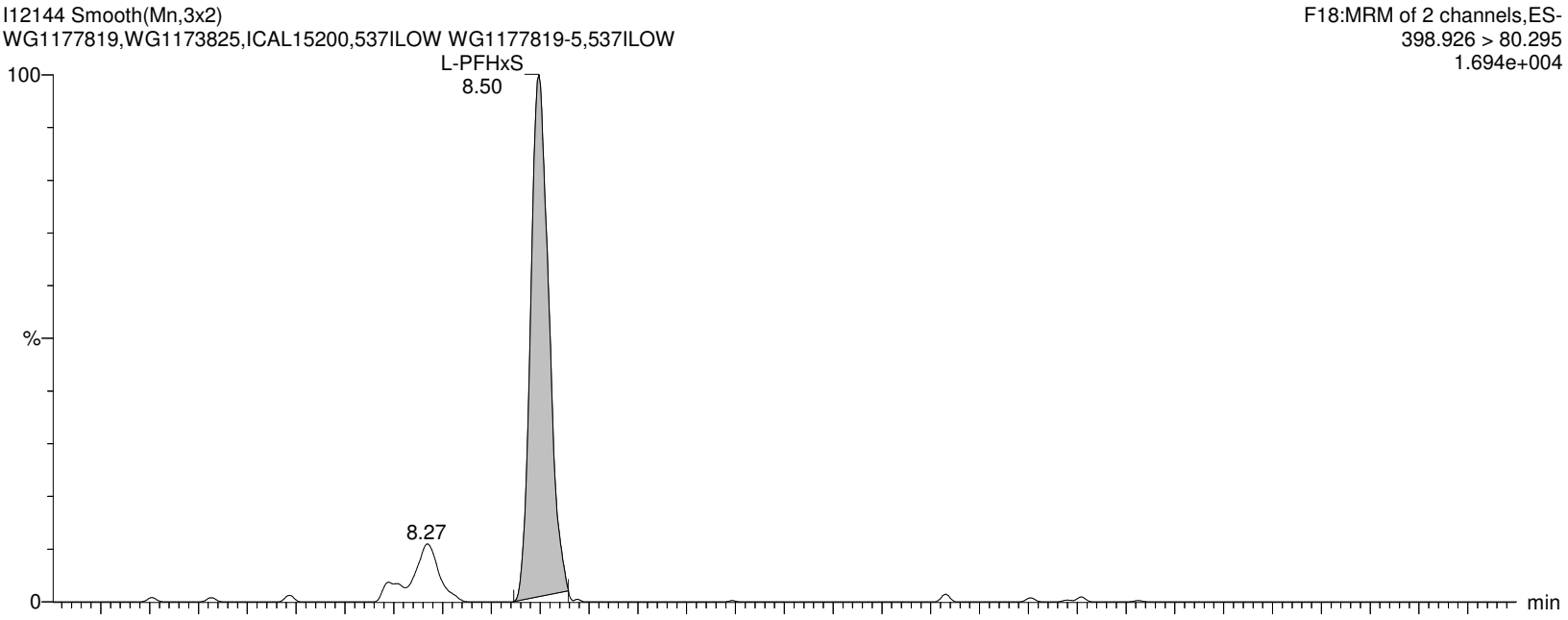

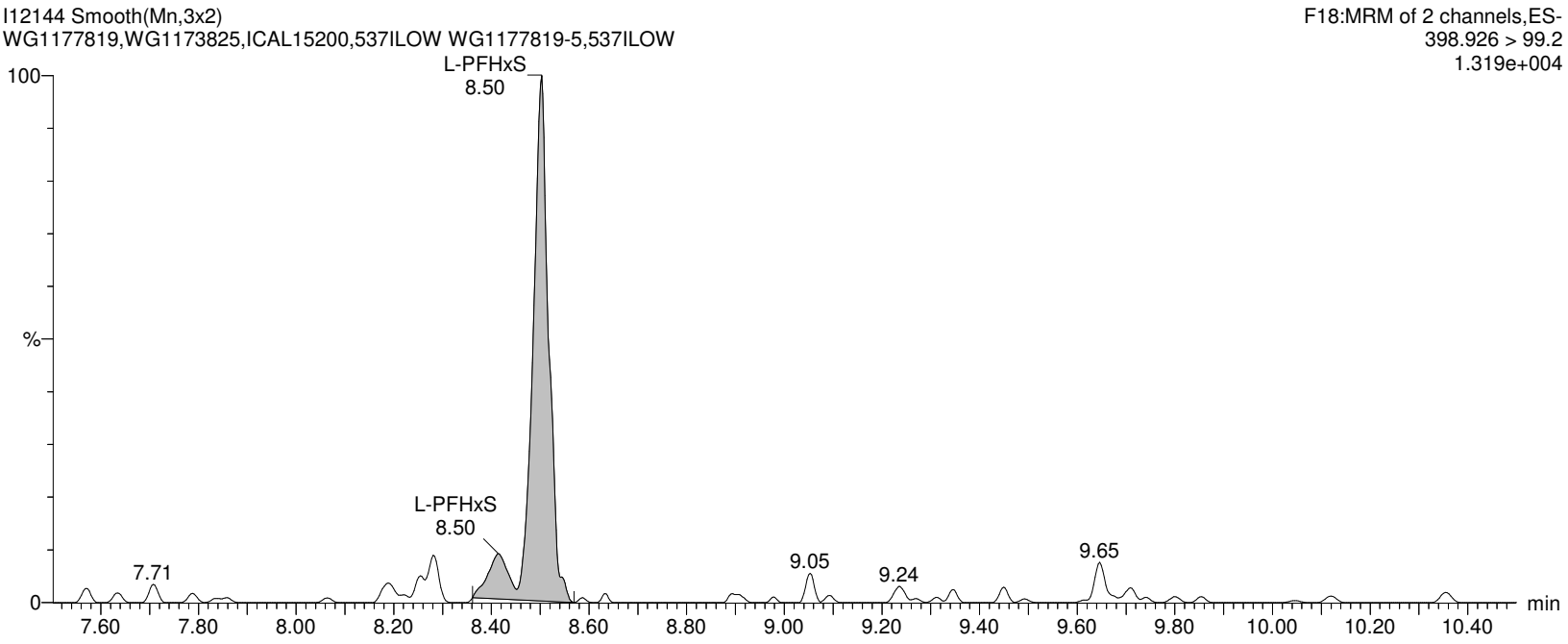

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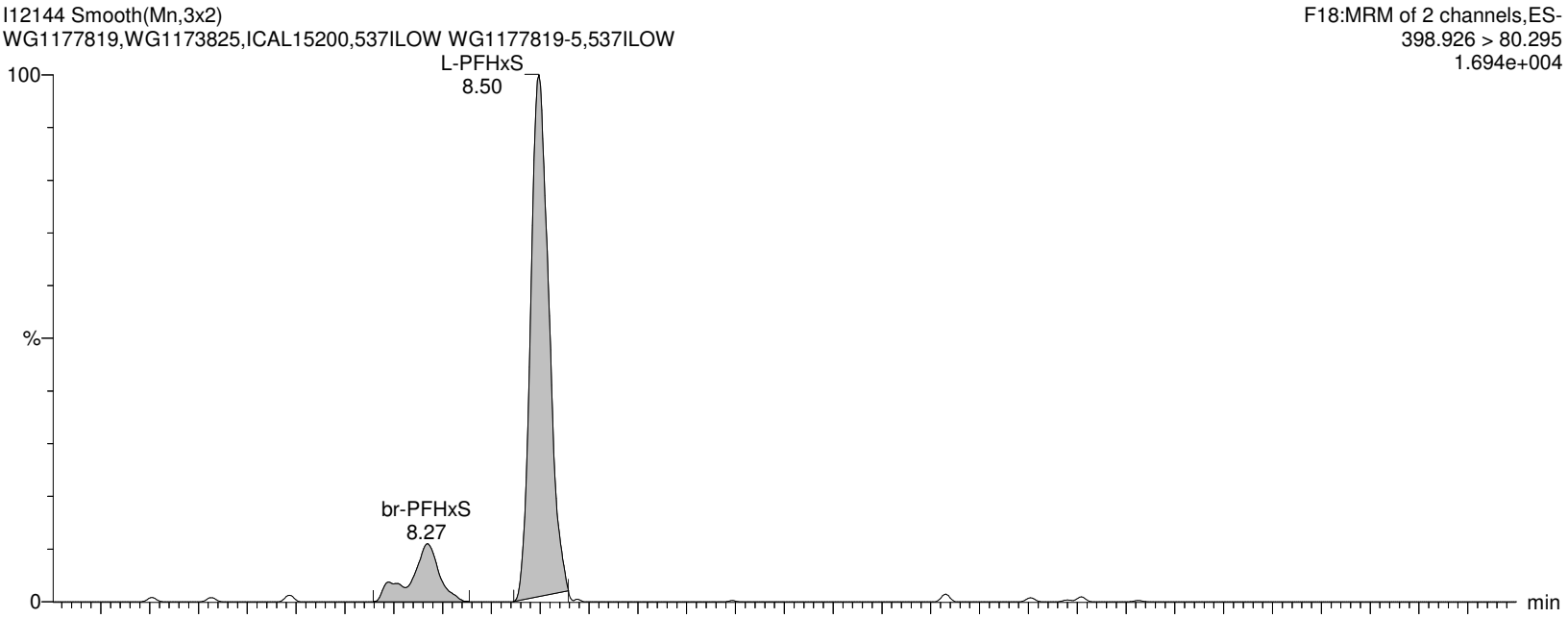

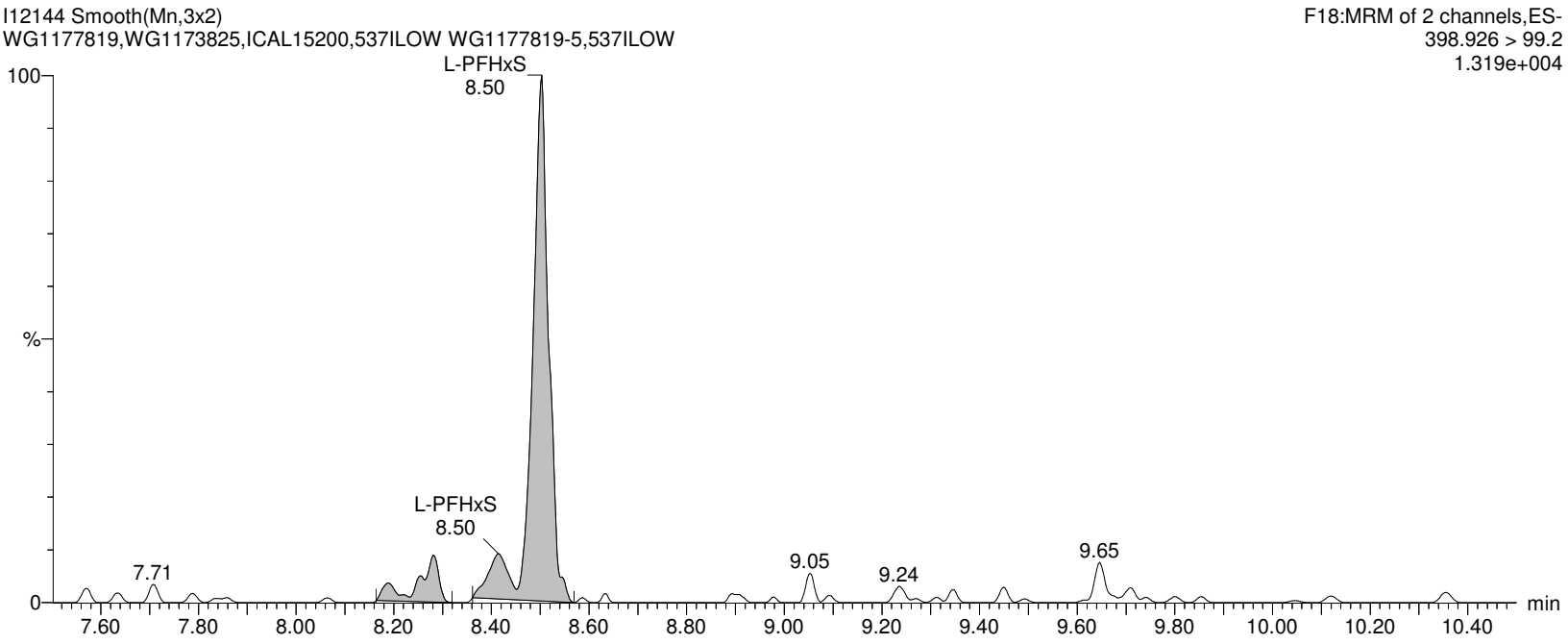

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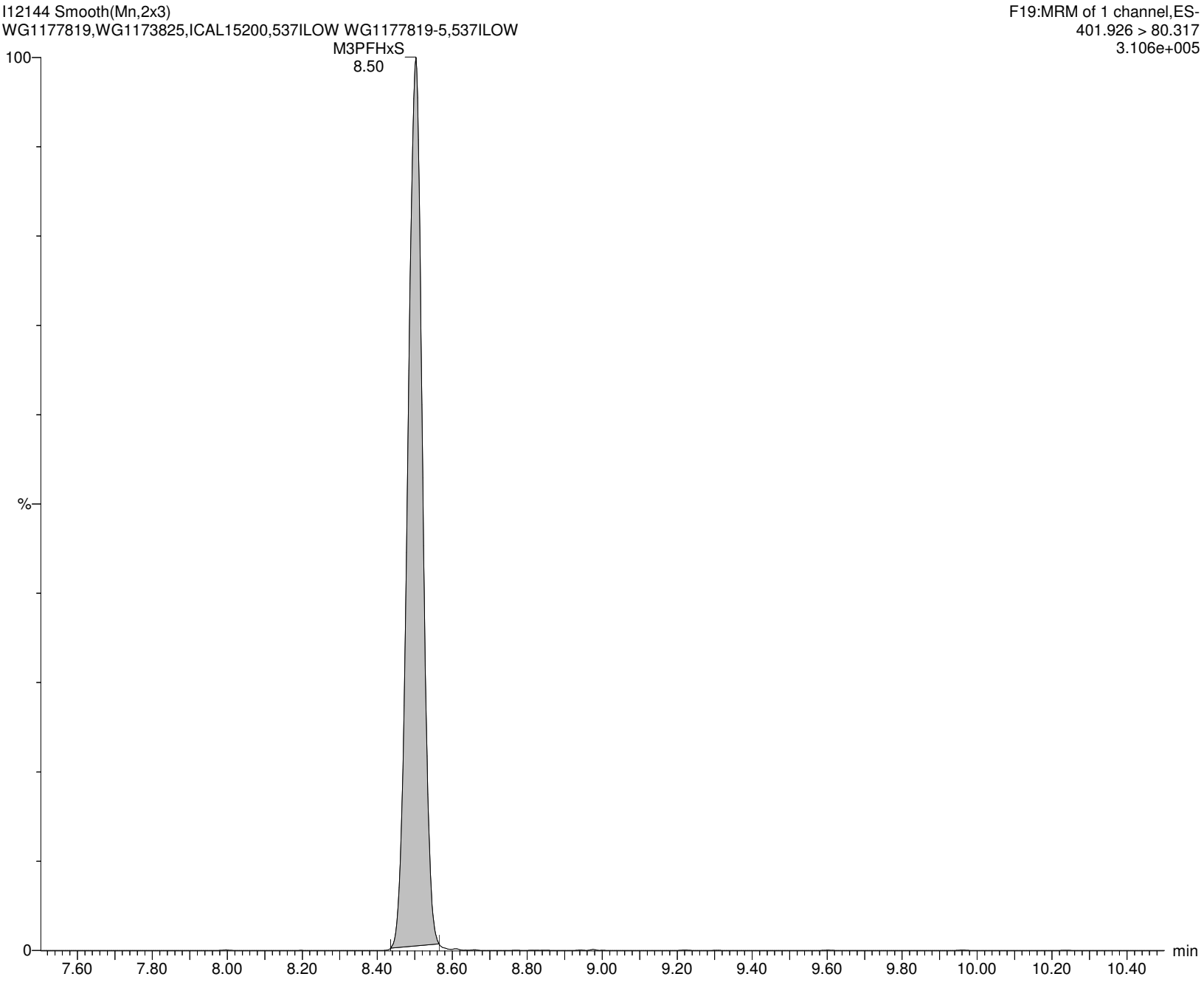

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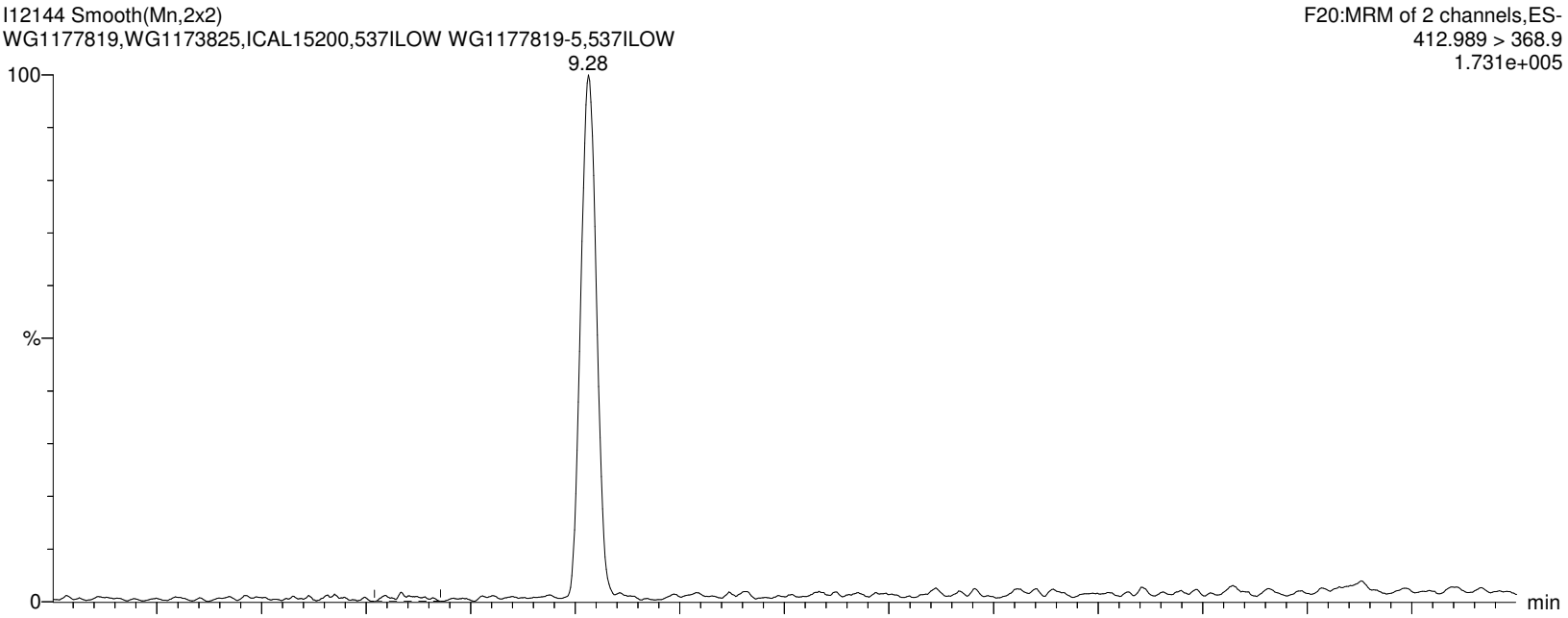

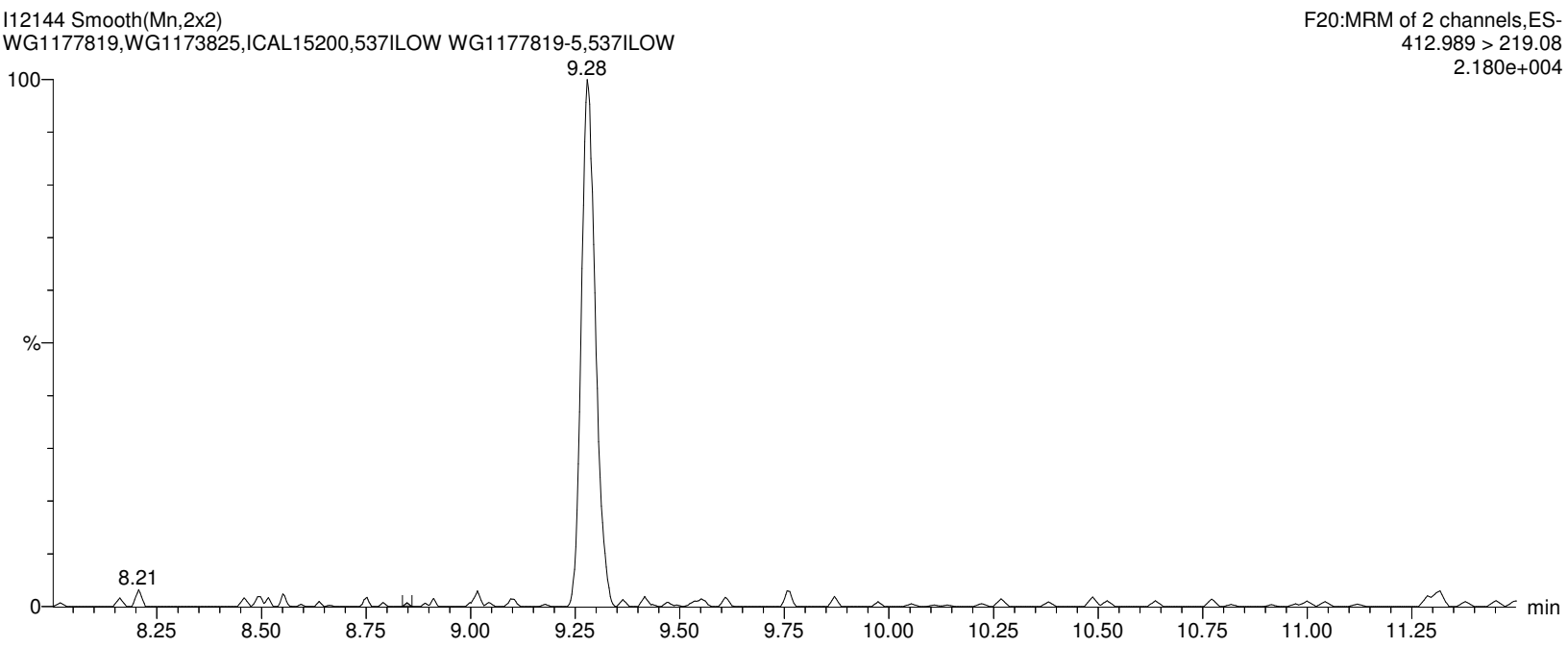

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819D.qld
Last Altered: Monday, November 12, 2018 11:59:03 Eastern Standard Time
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Name: I12144
ID: WG1177819-5,537ILOW
Date: 10-Nov-2018
Time: 04:39:27
Description: WG1177819,WG1173825,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
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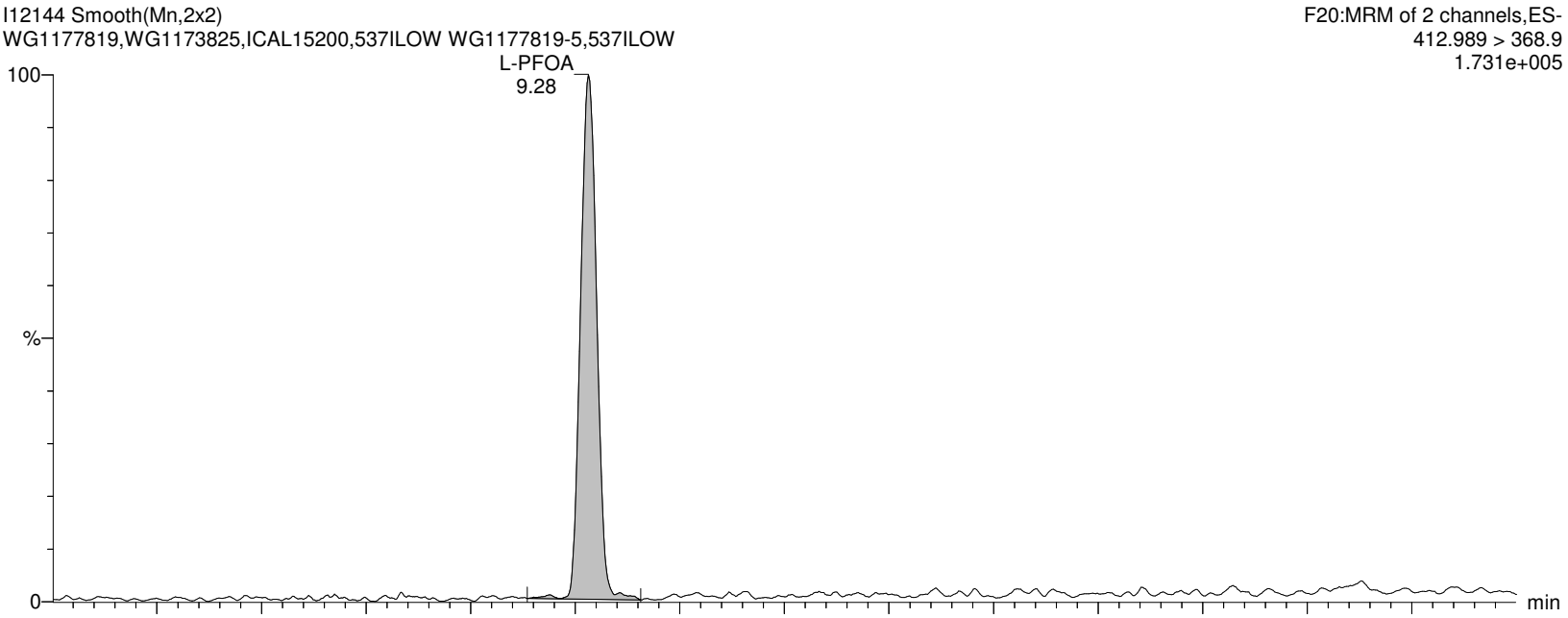

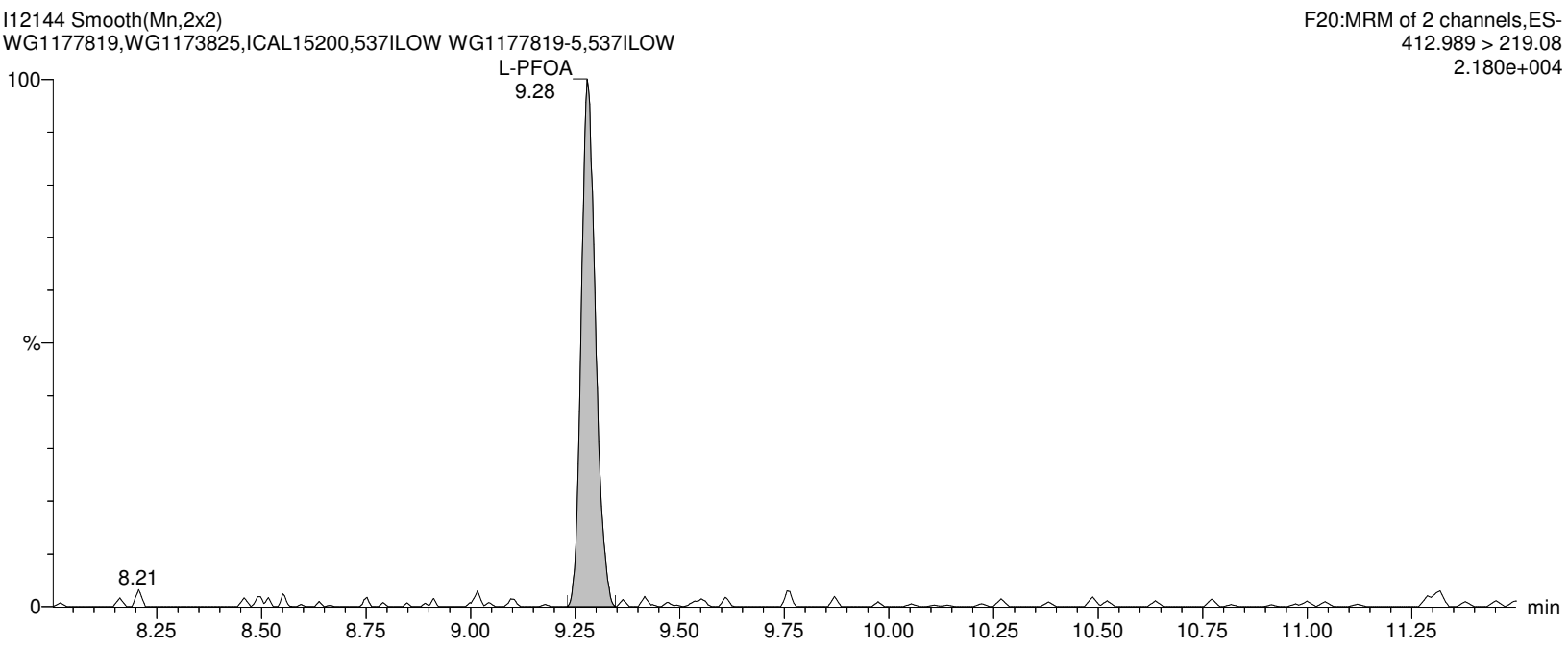

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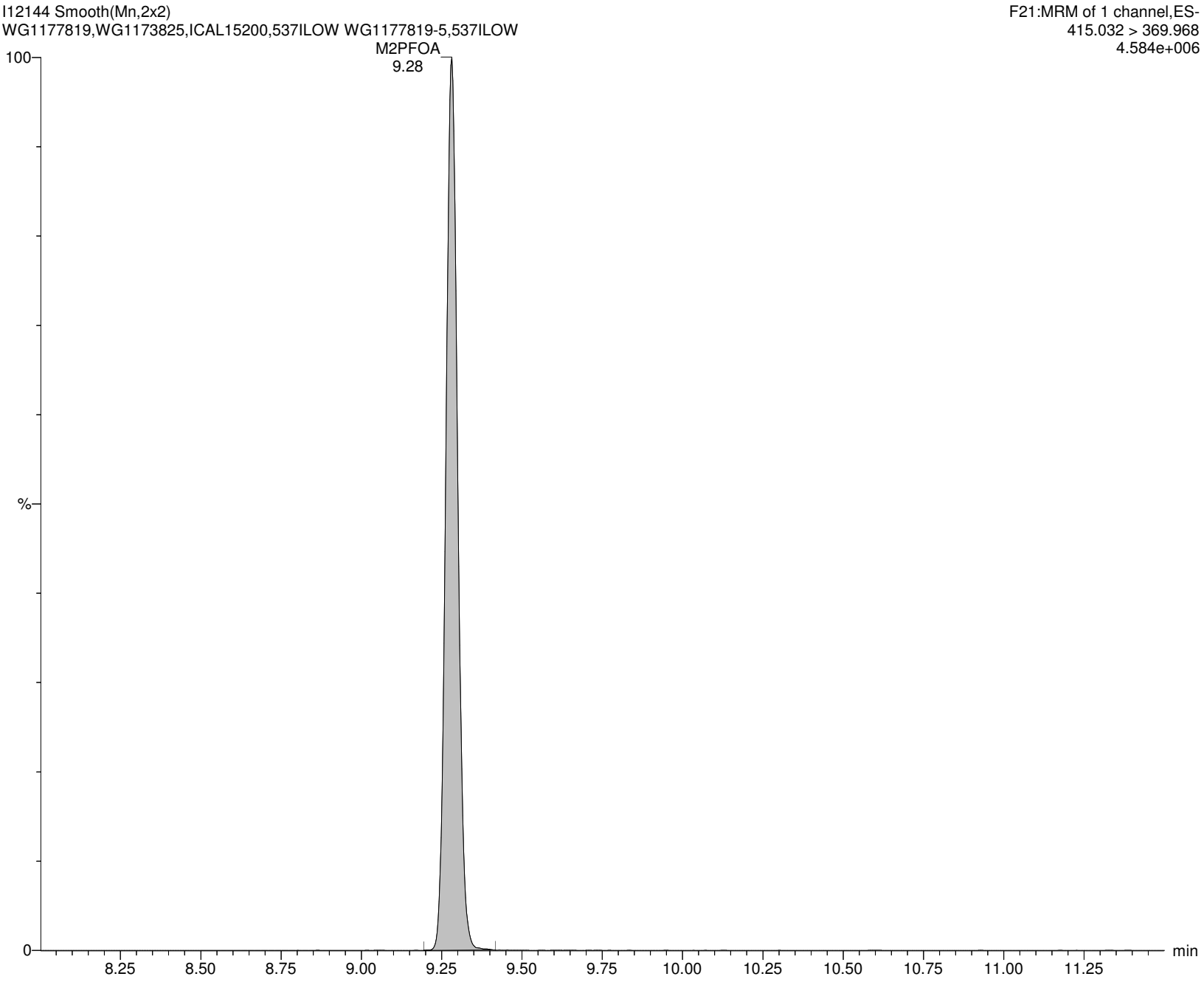

all concentration units in (ng/mL)

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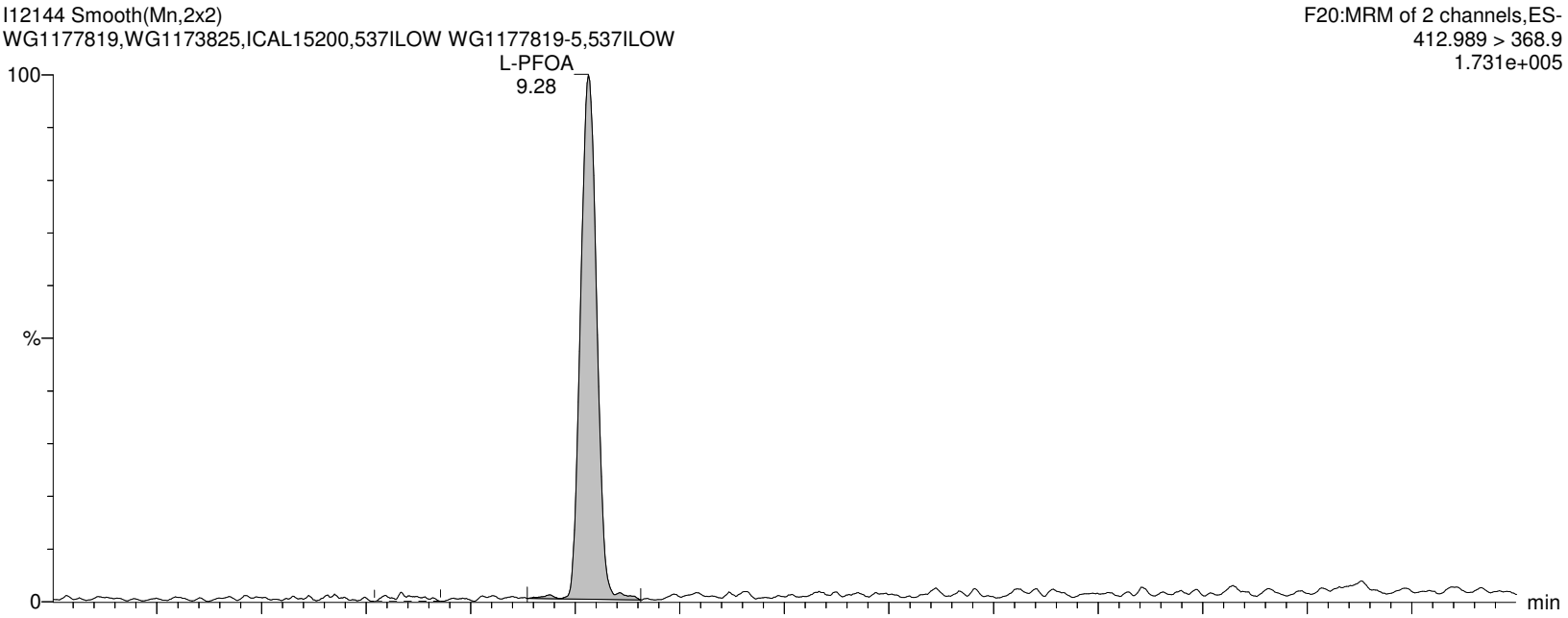

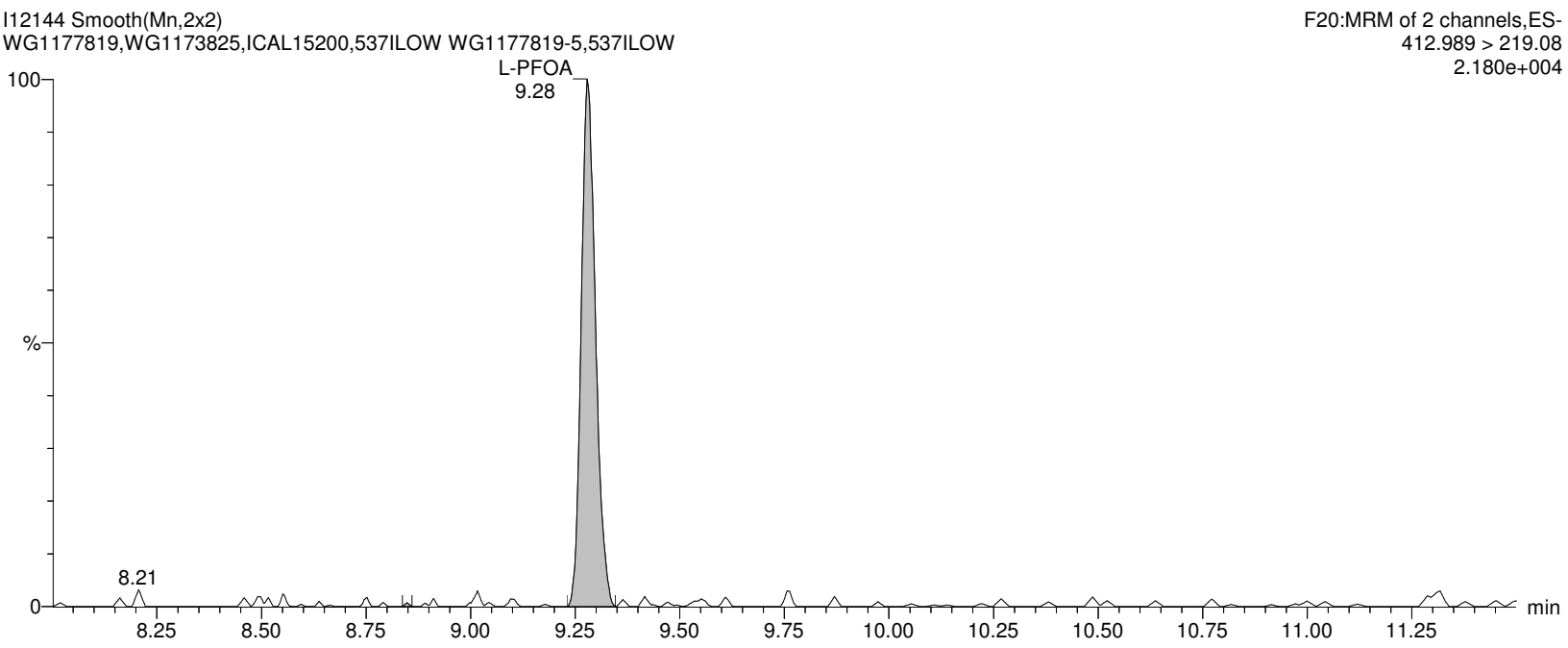

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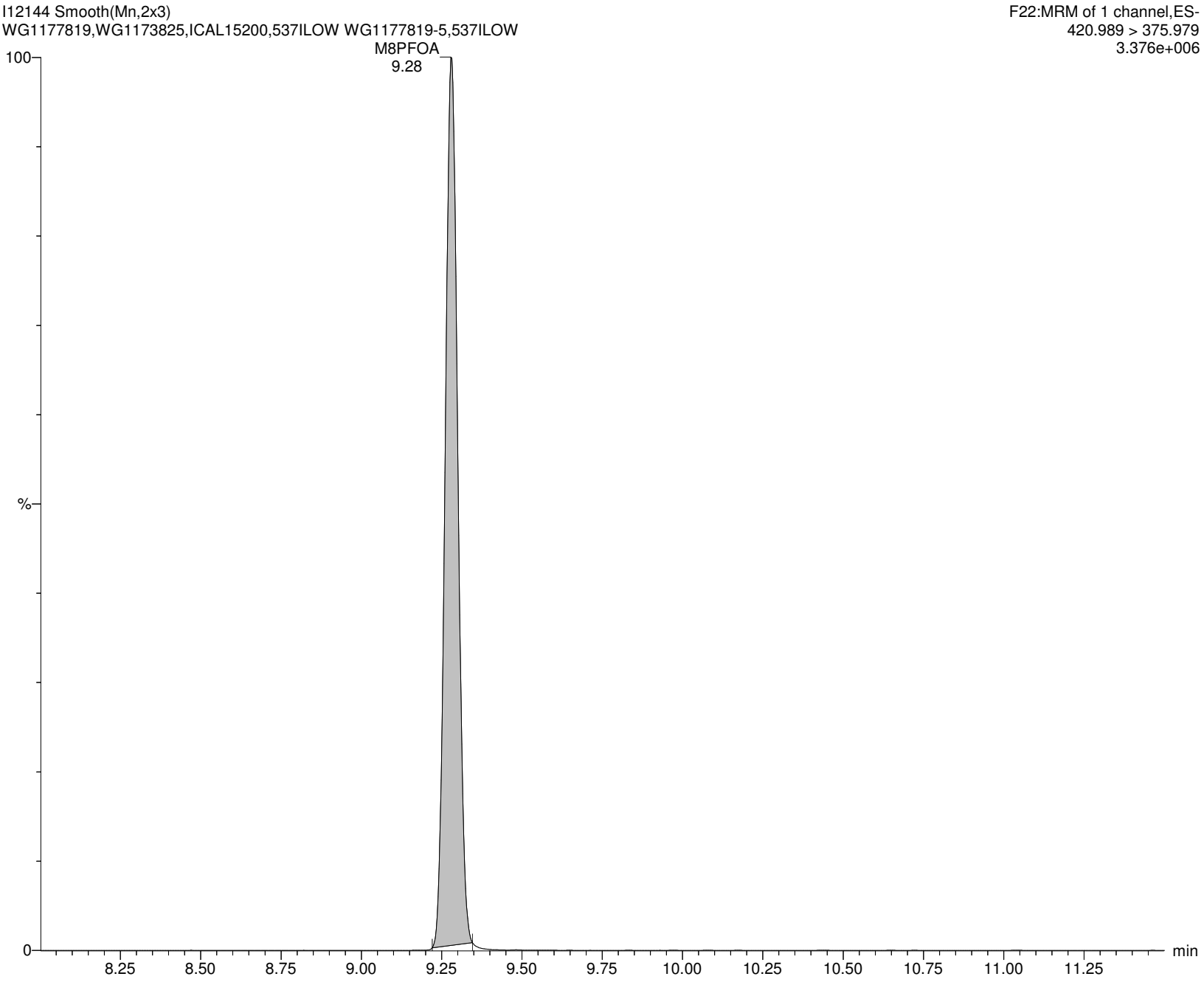

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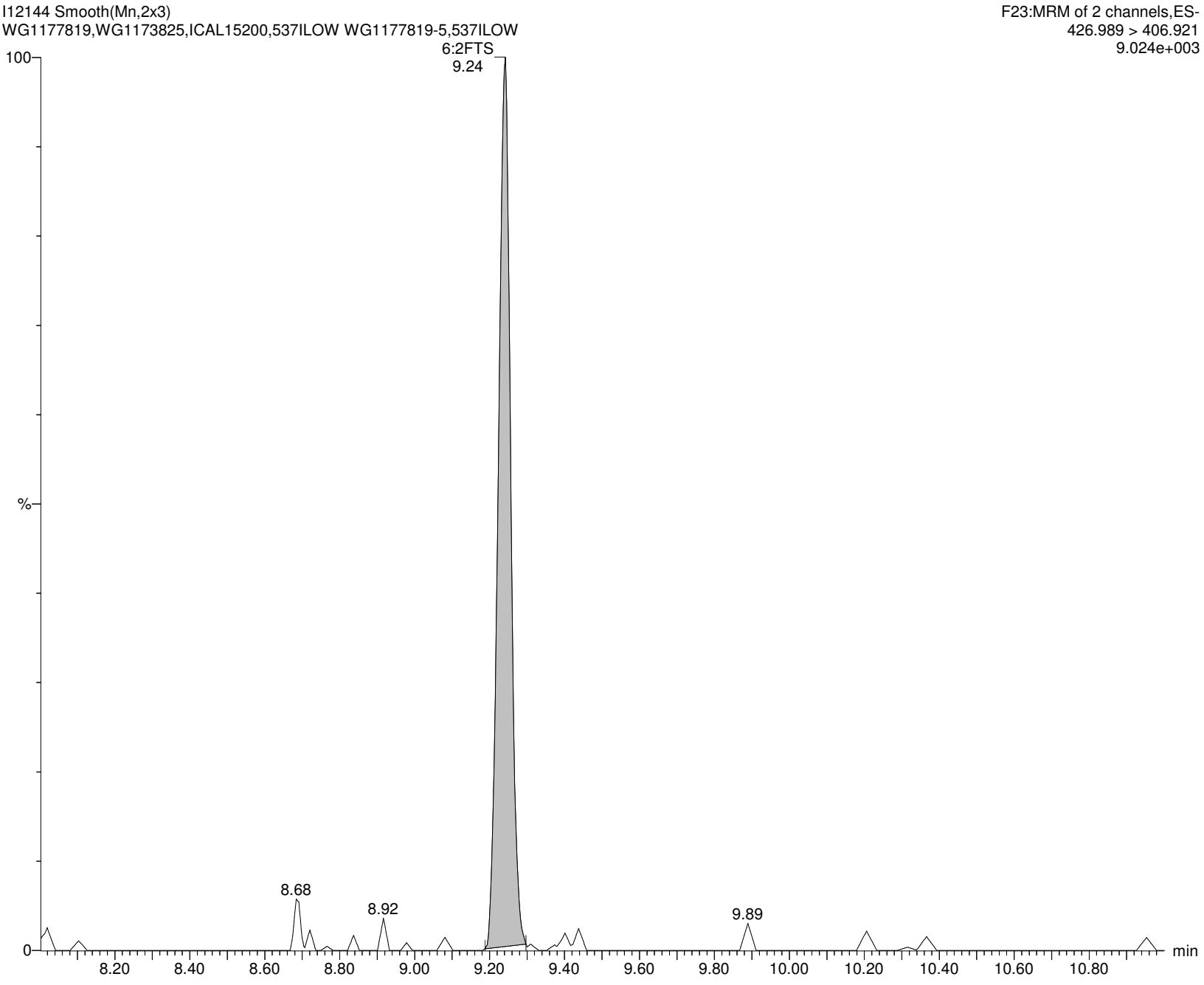

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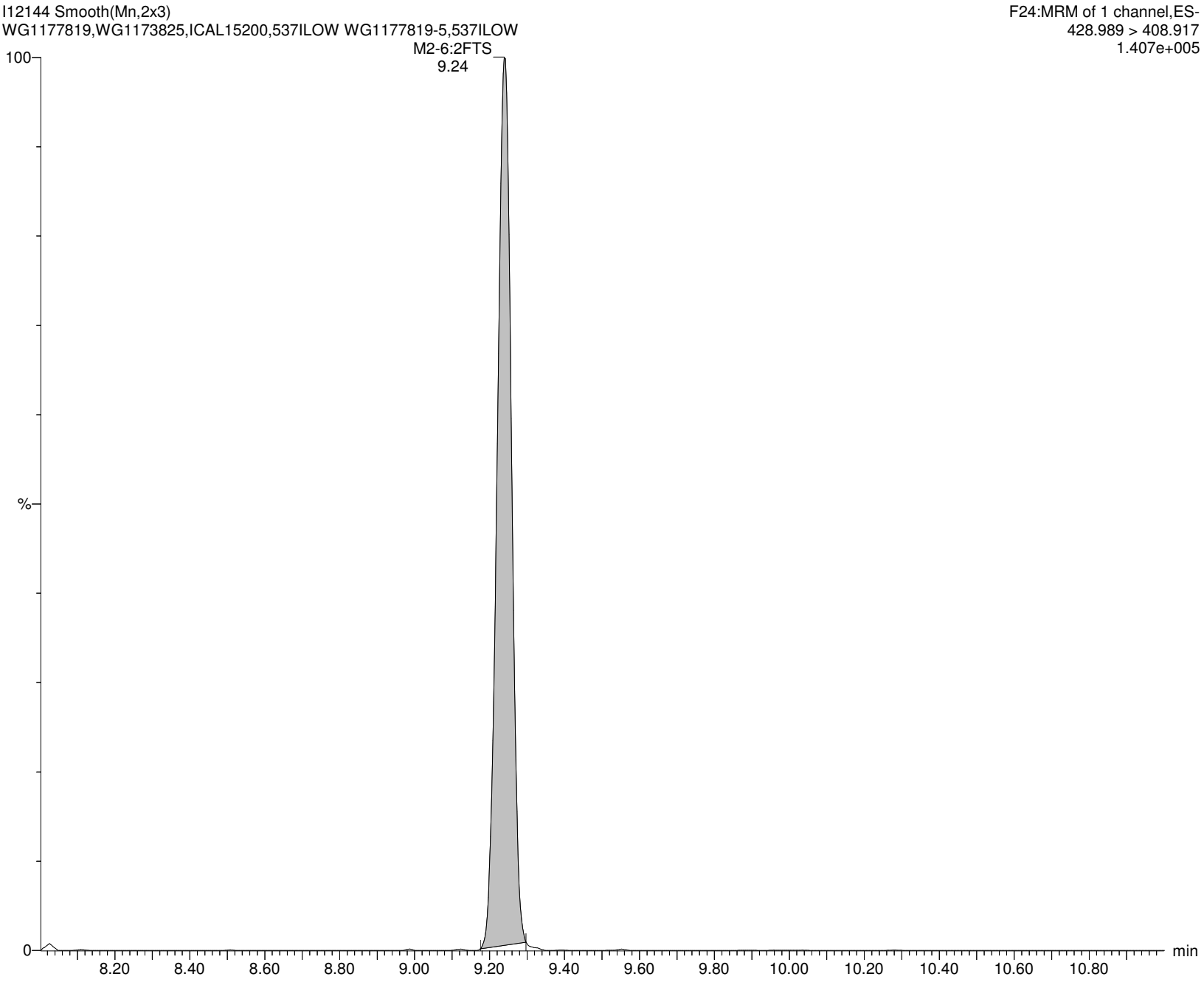

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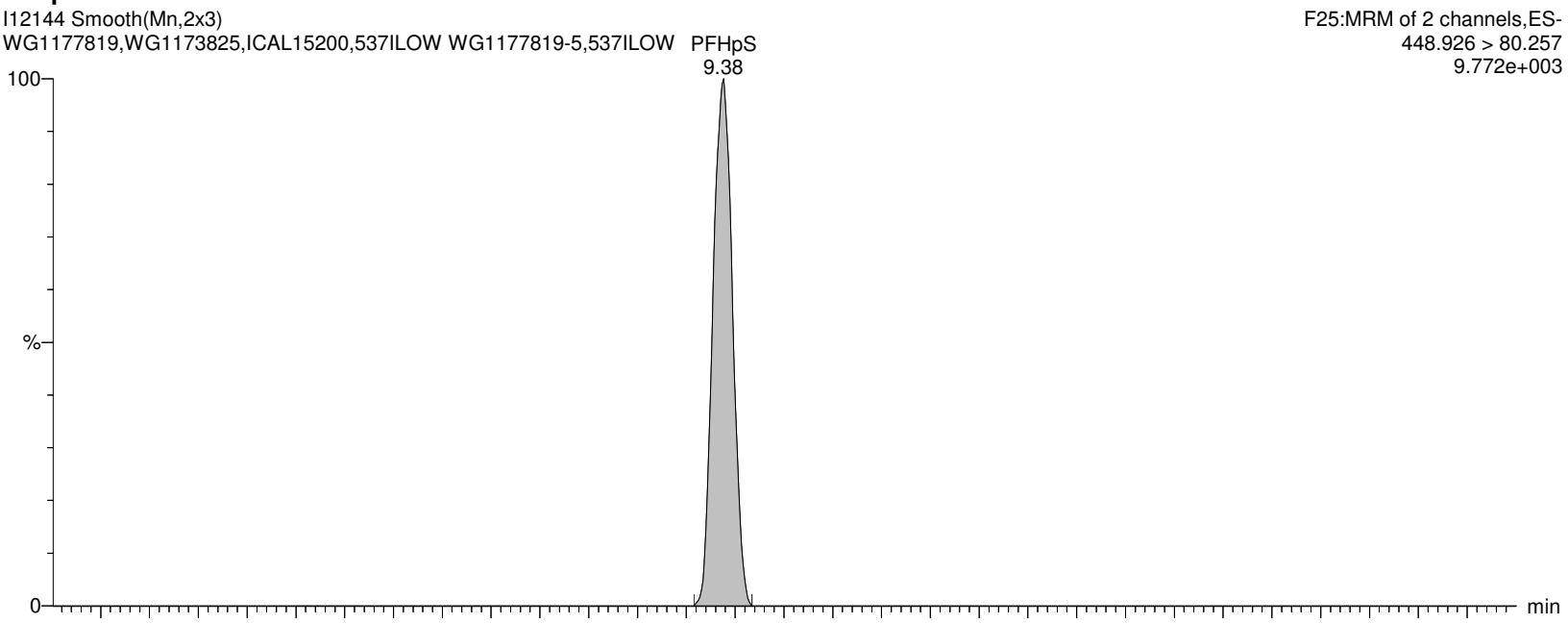

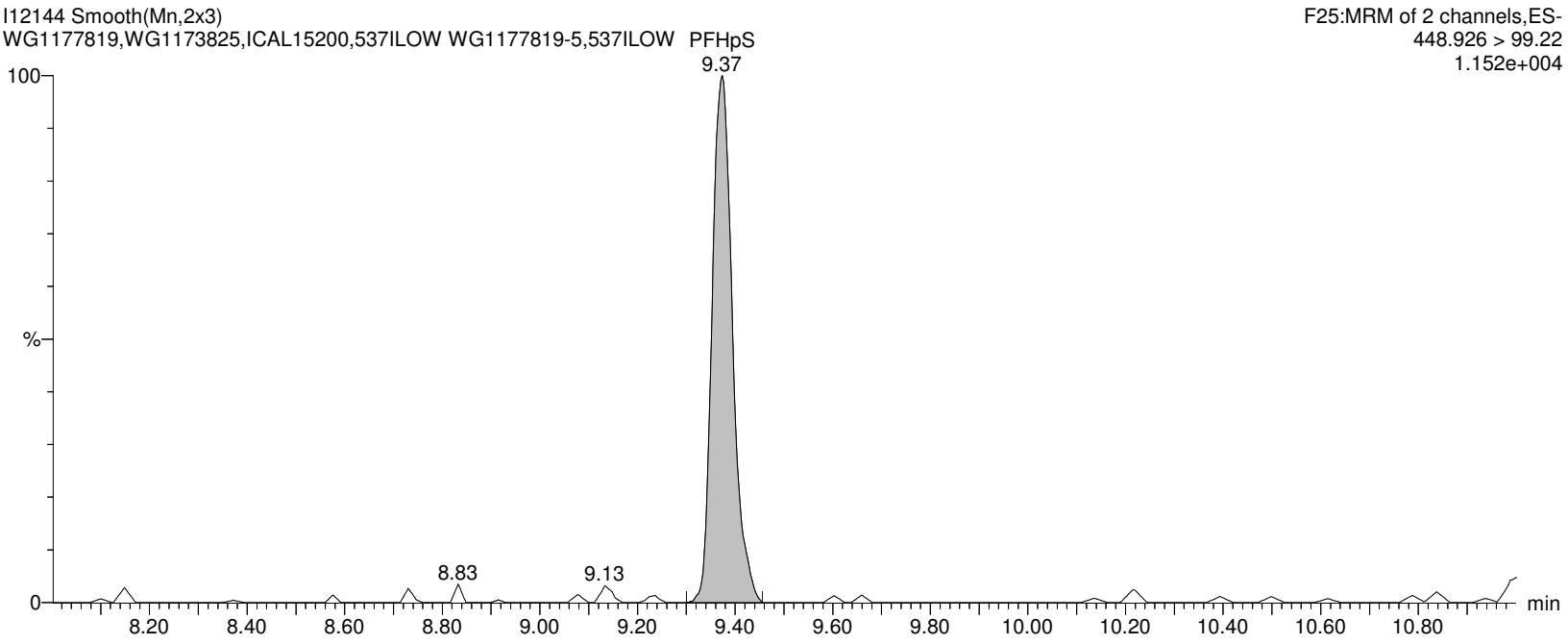

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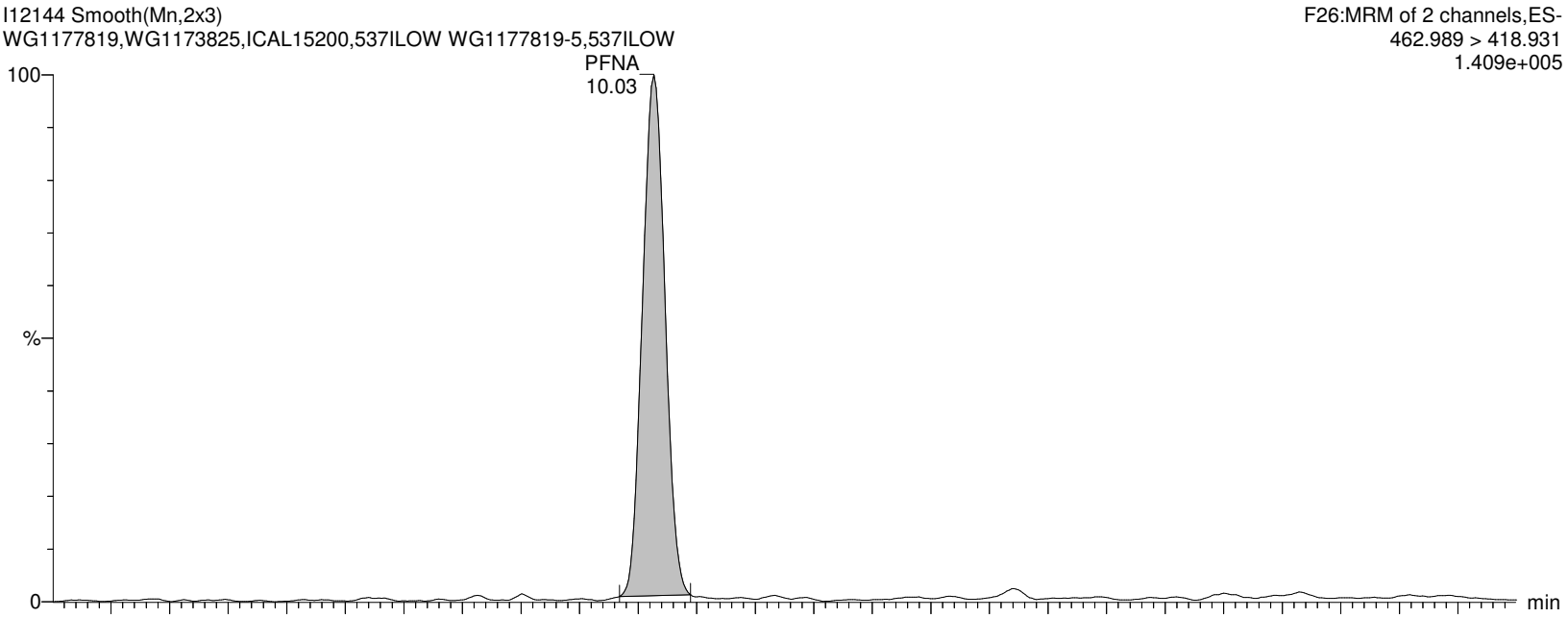

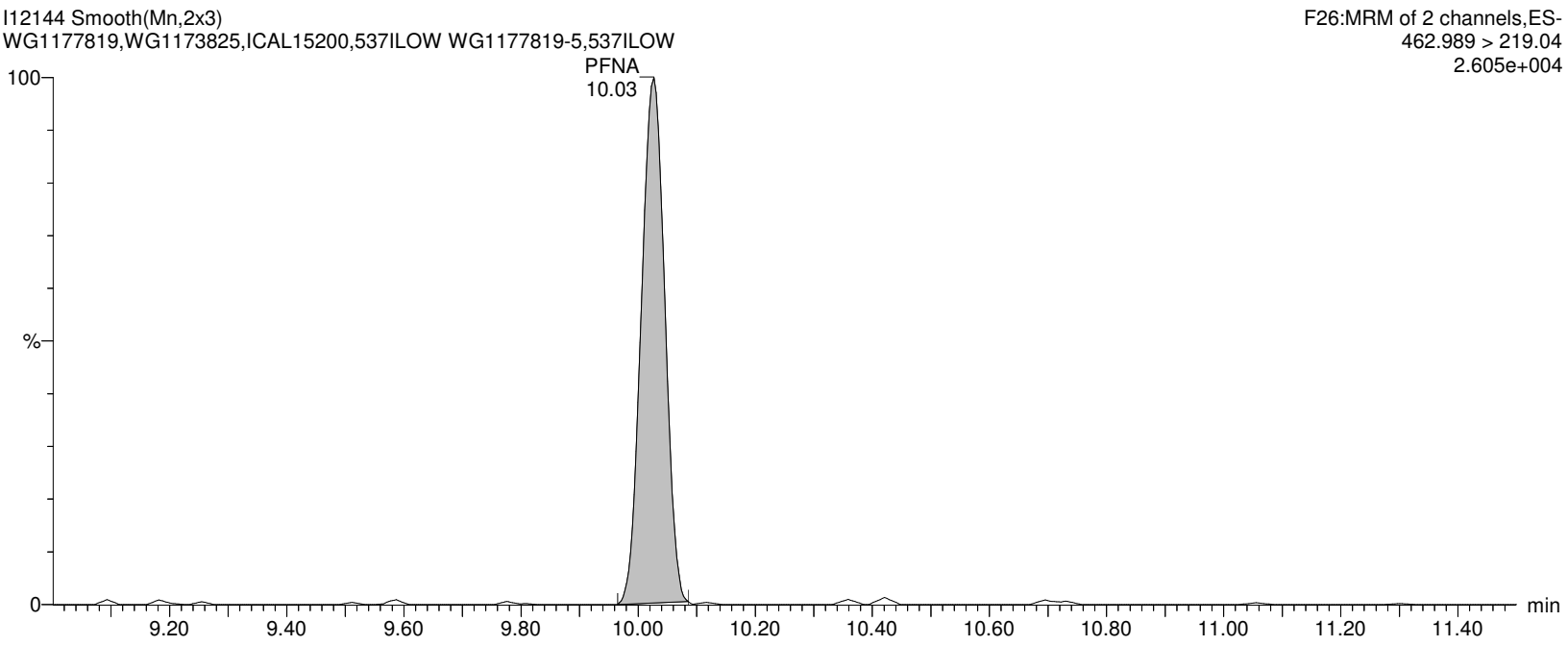

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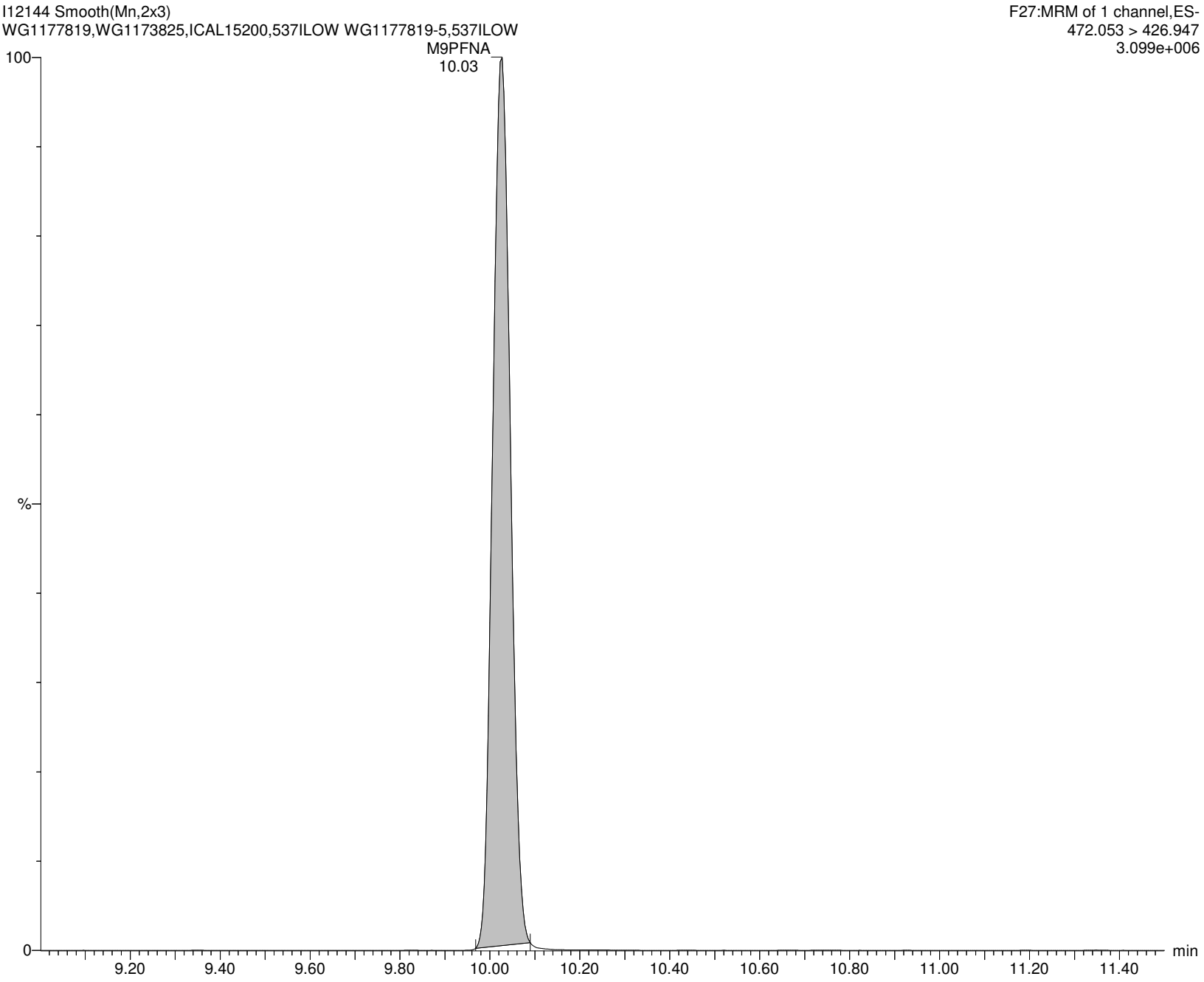

all concentration units in (ng/mL)

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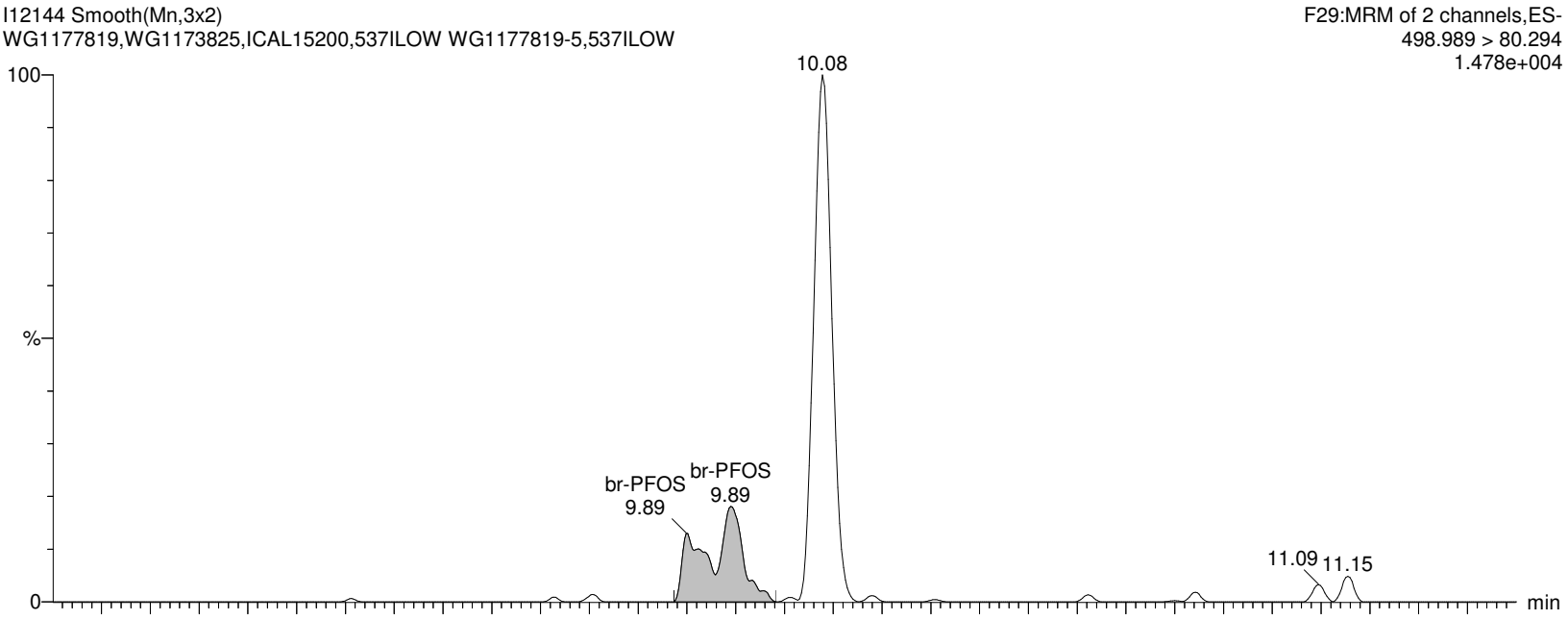

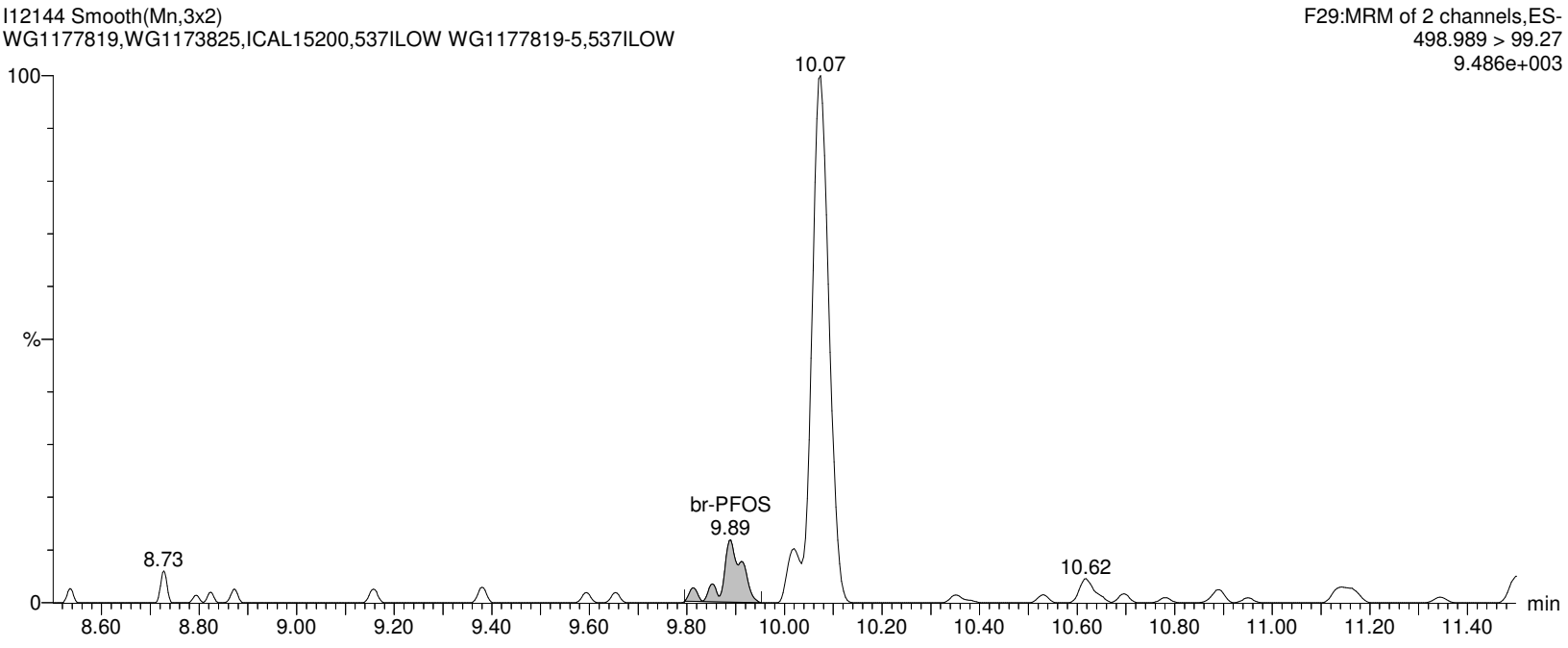

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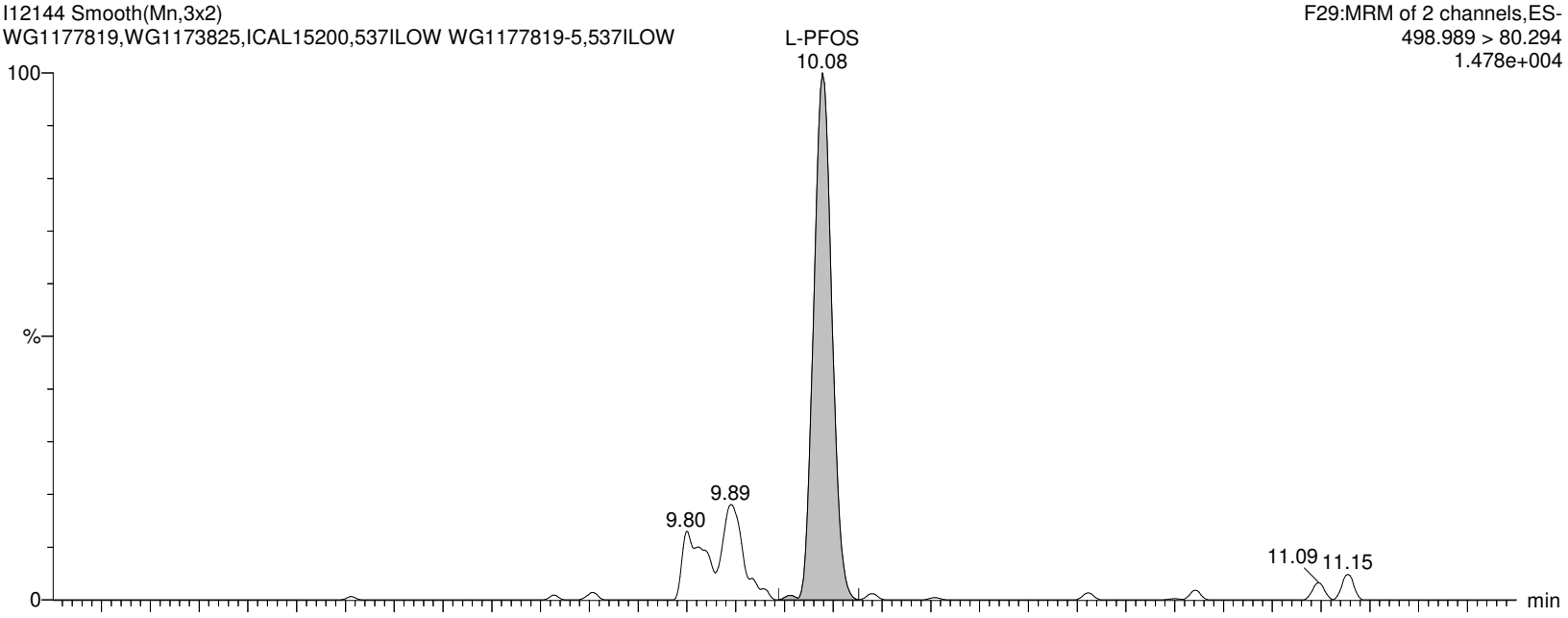

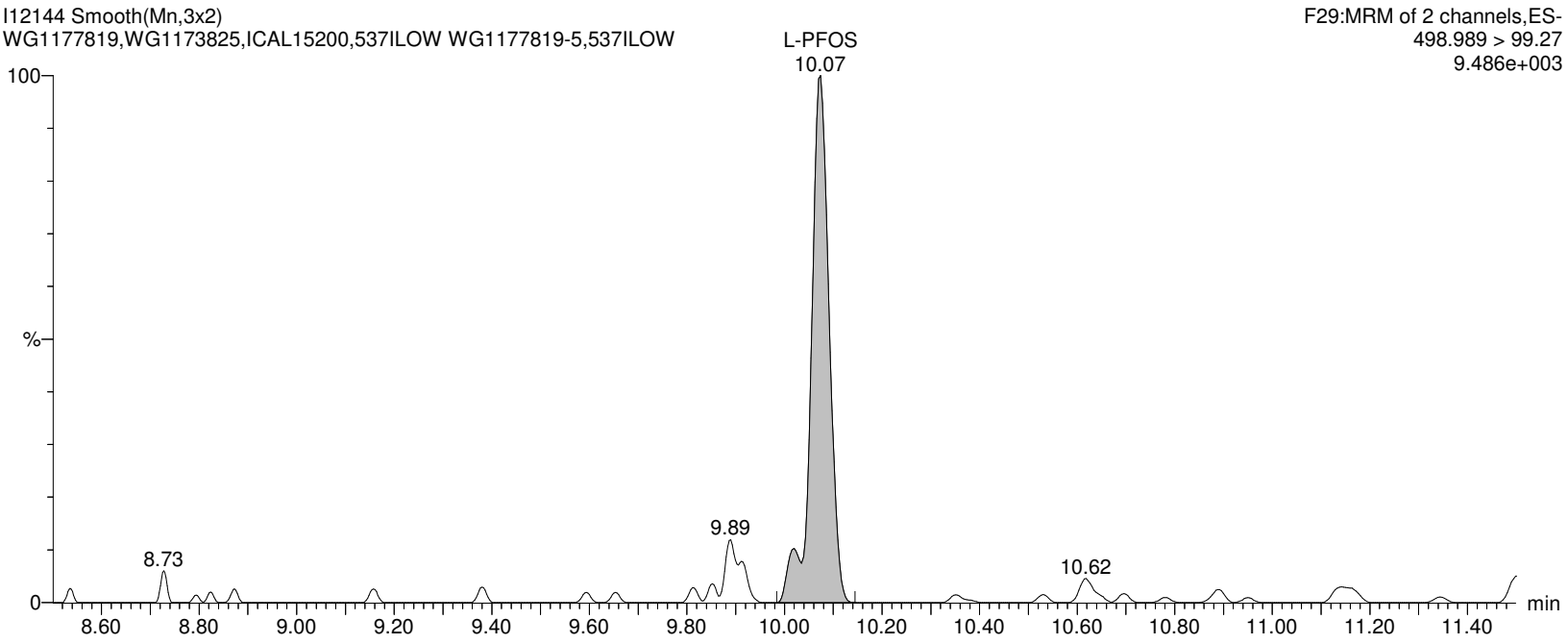

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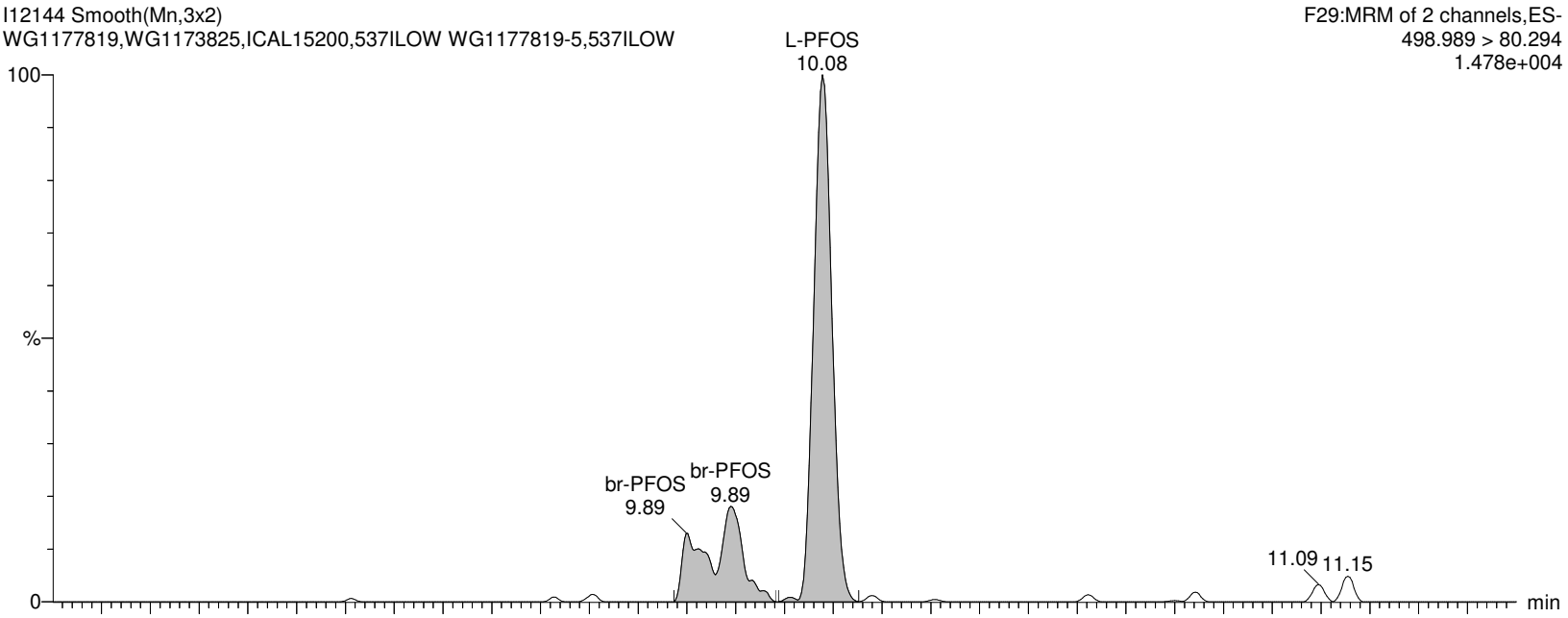

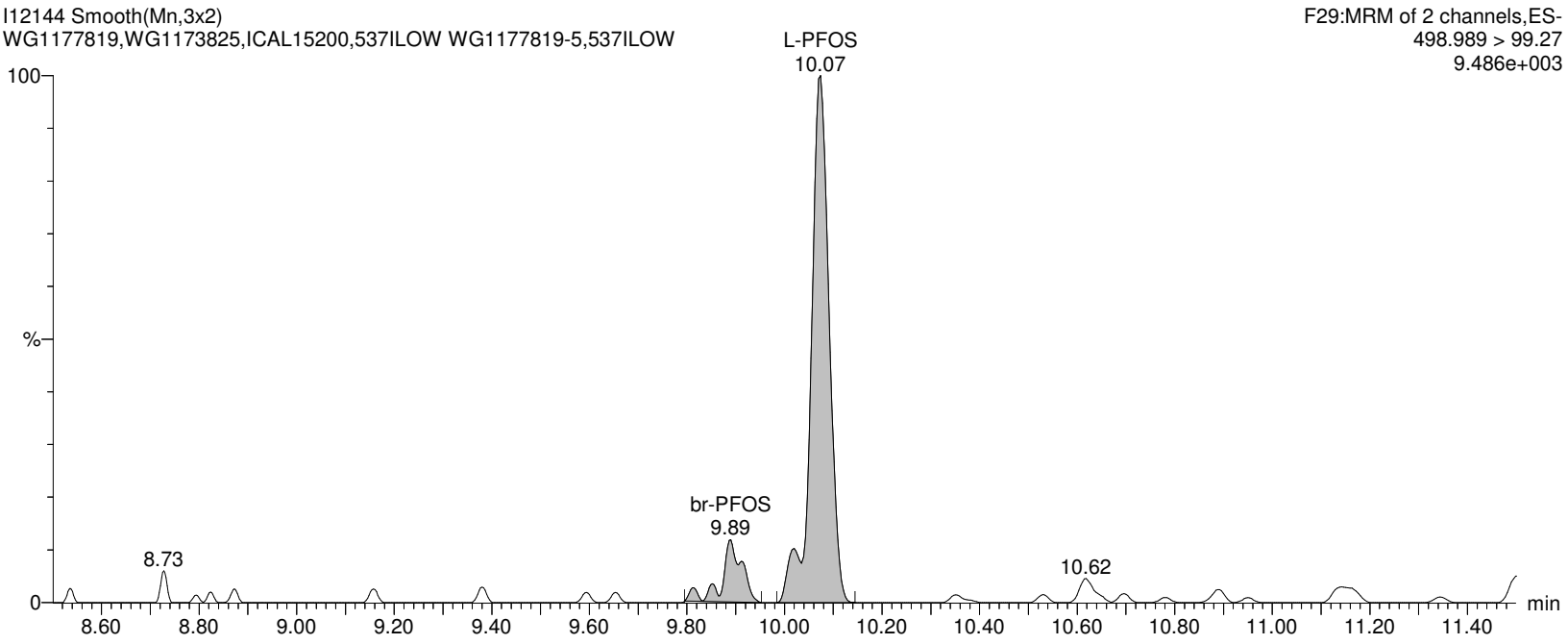

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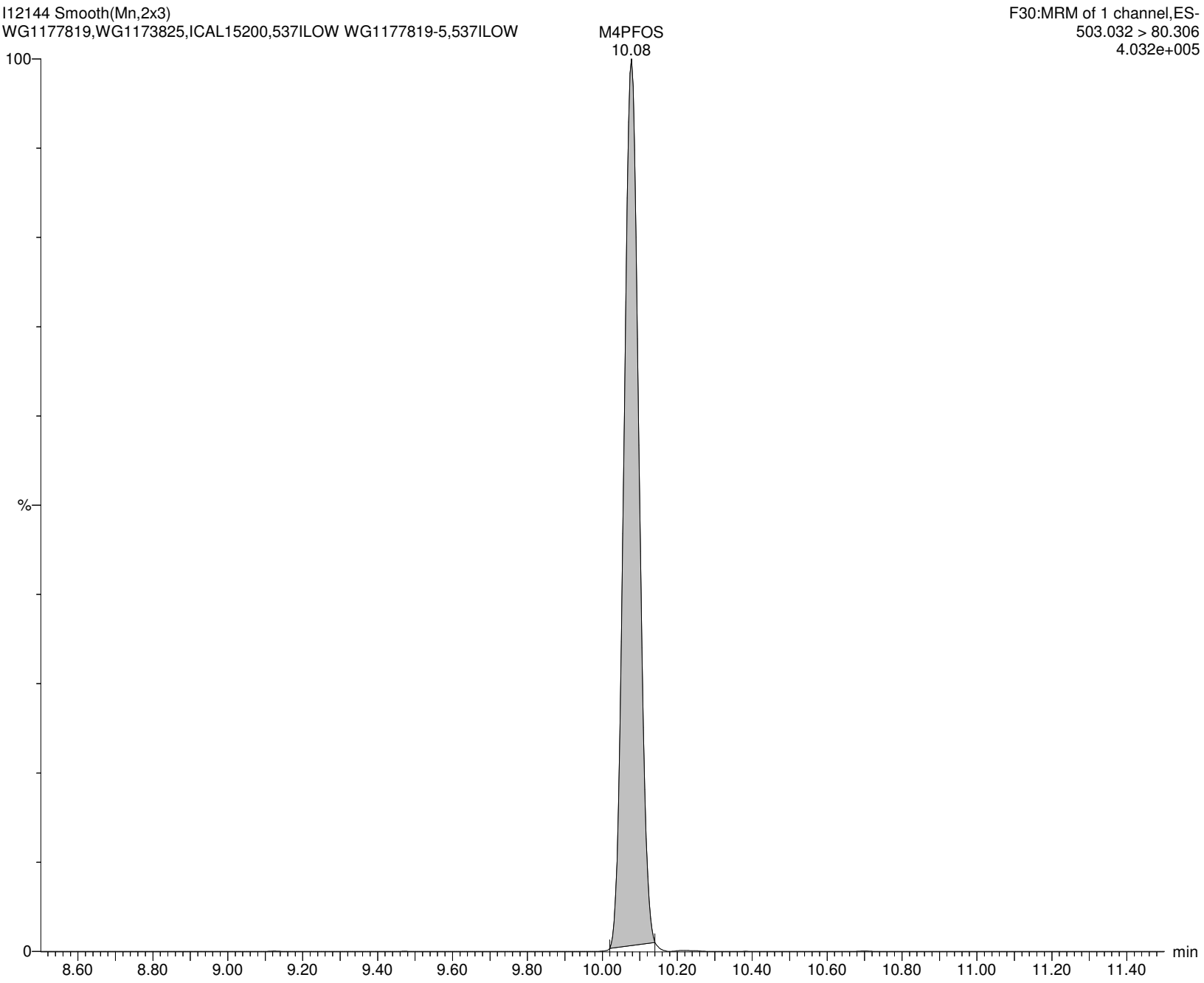

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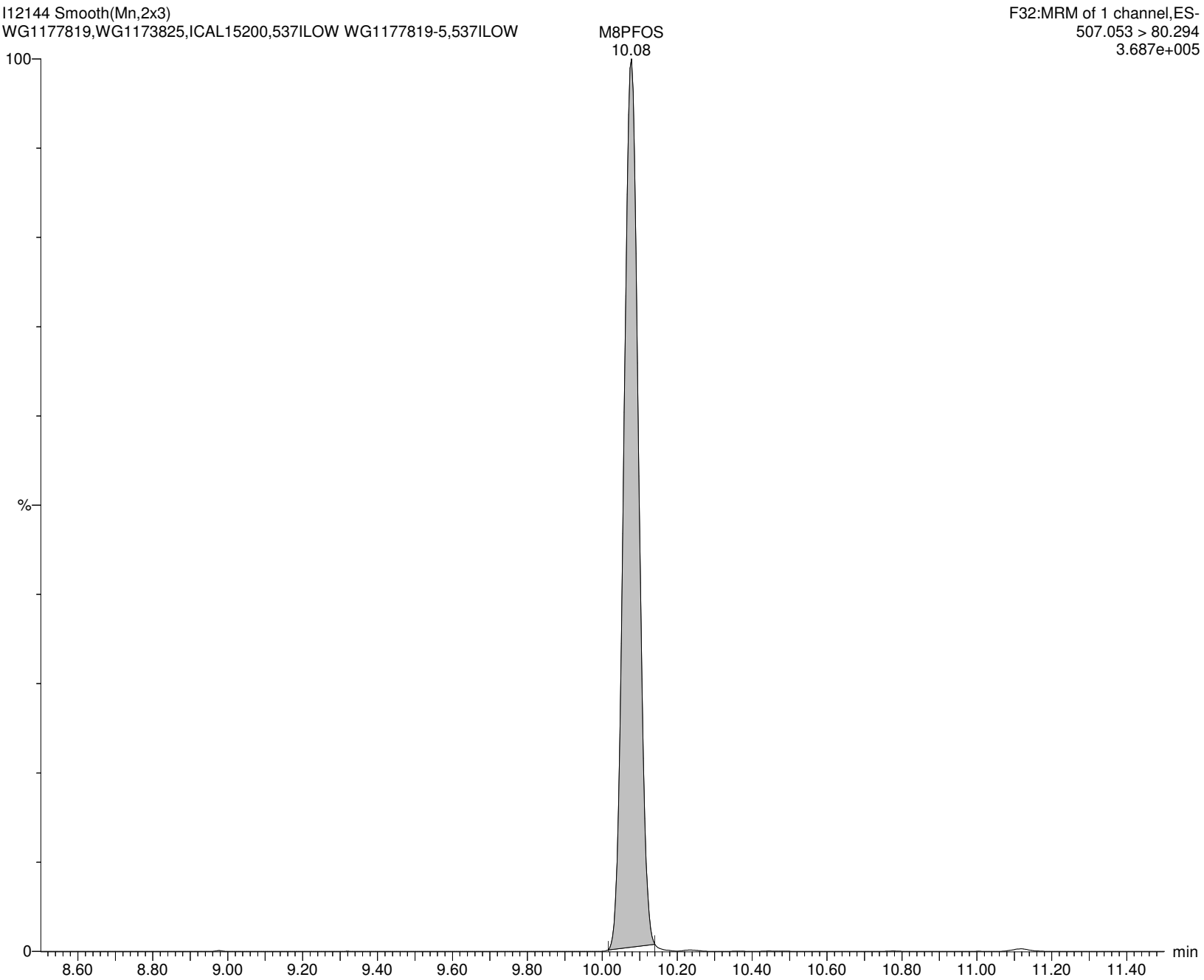

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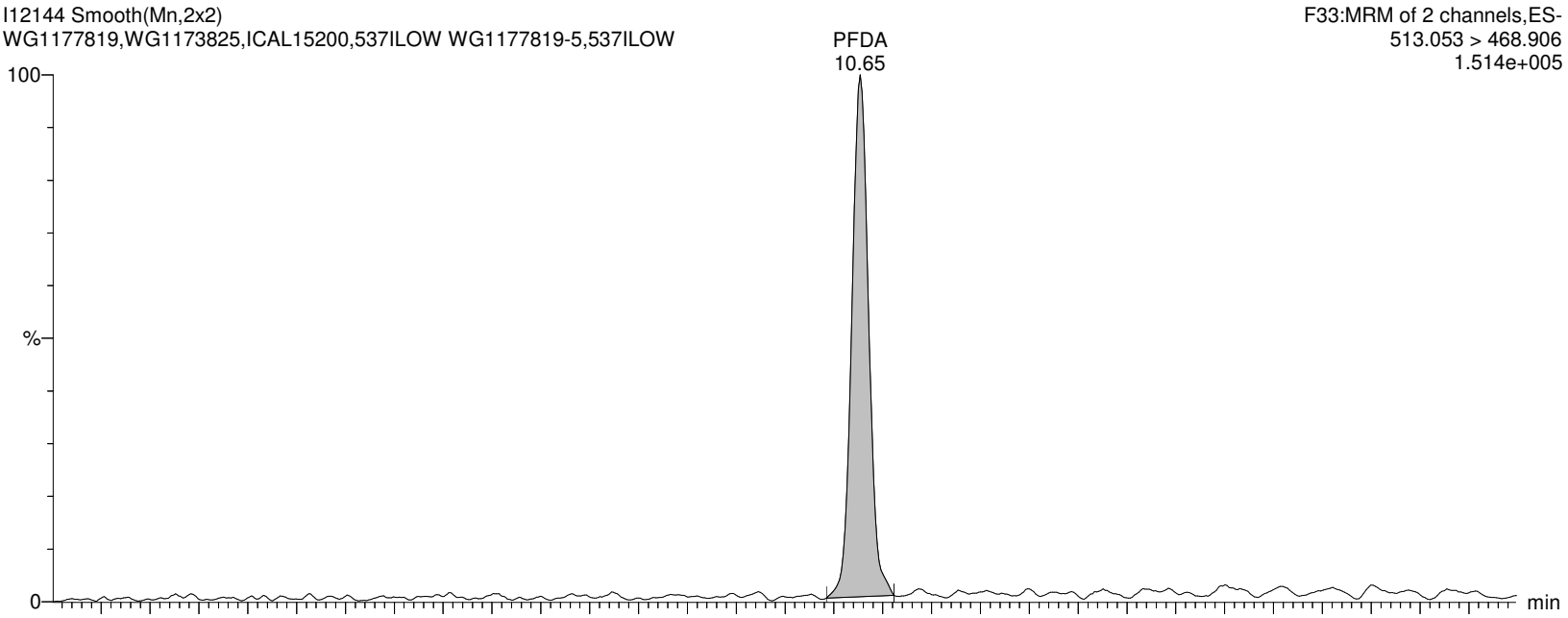

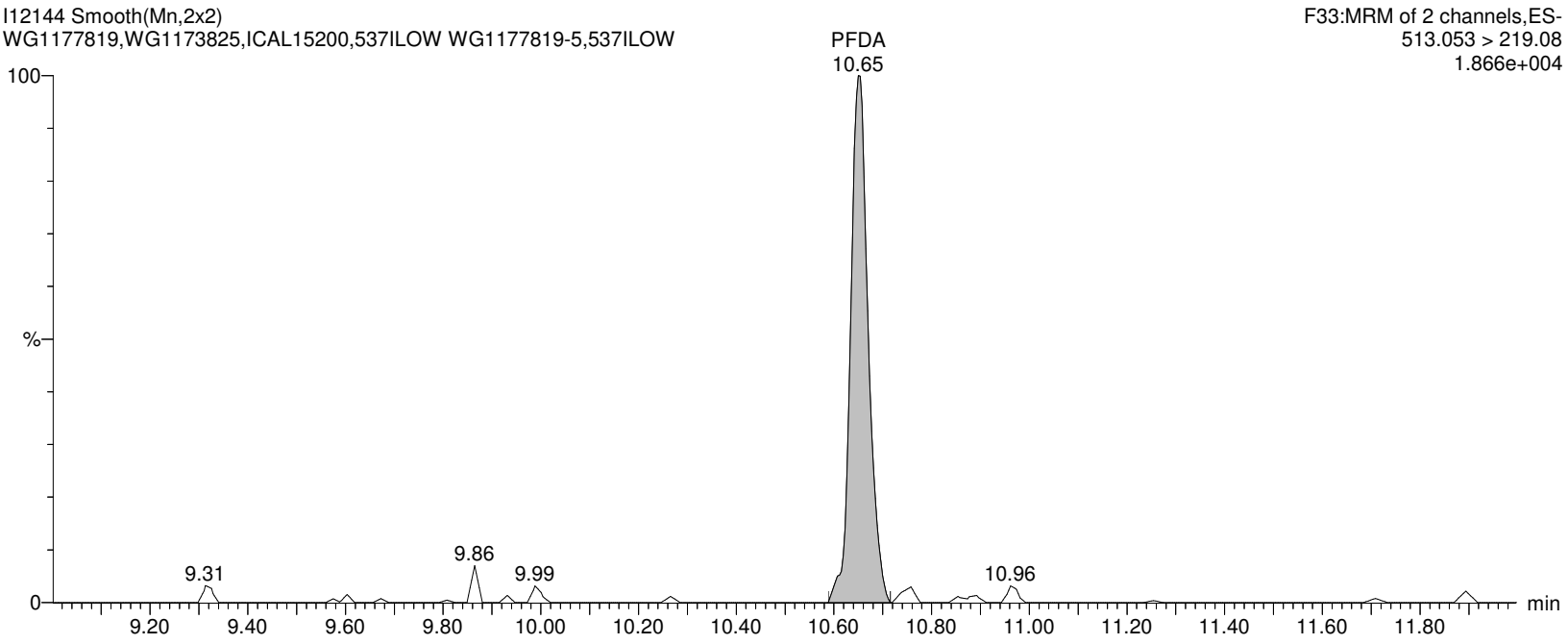

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Vial: 2:A,2
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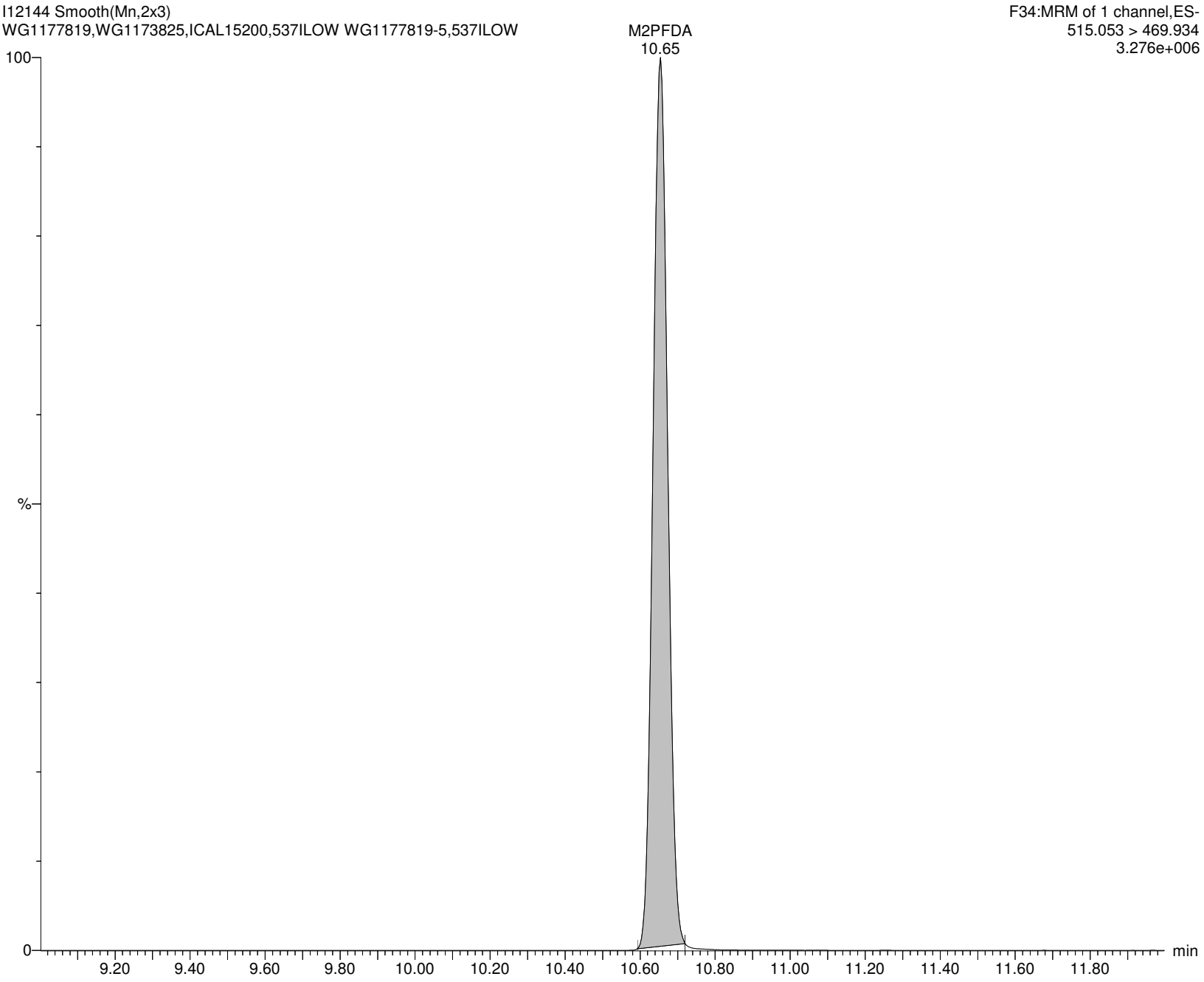

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819D.qld
Last Altered: Monday, November 12, 2018 11:59:03 Eastern Standard Time
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Name: I12144
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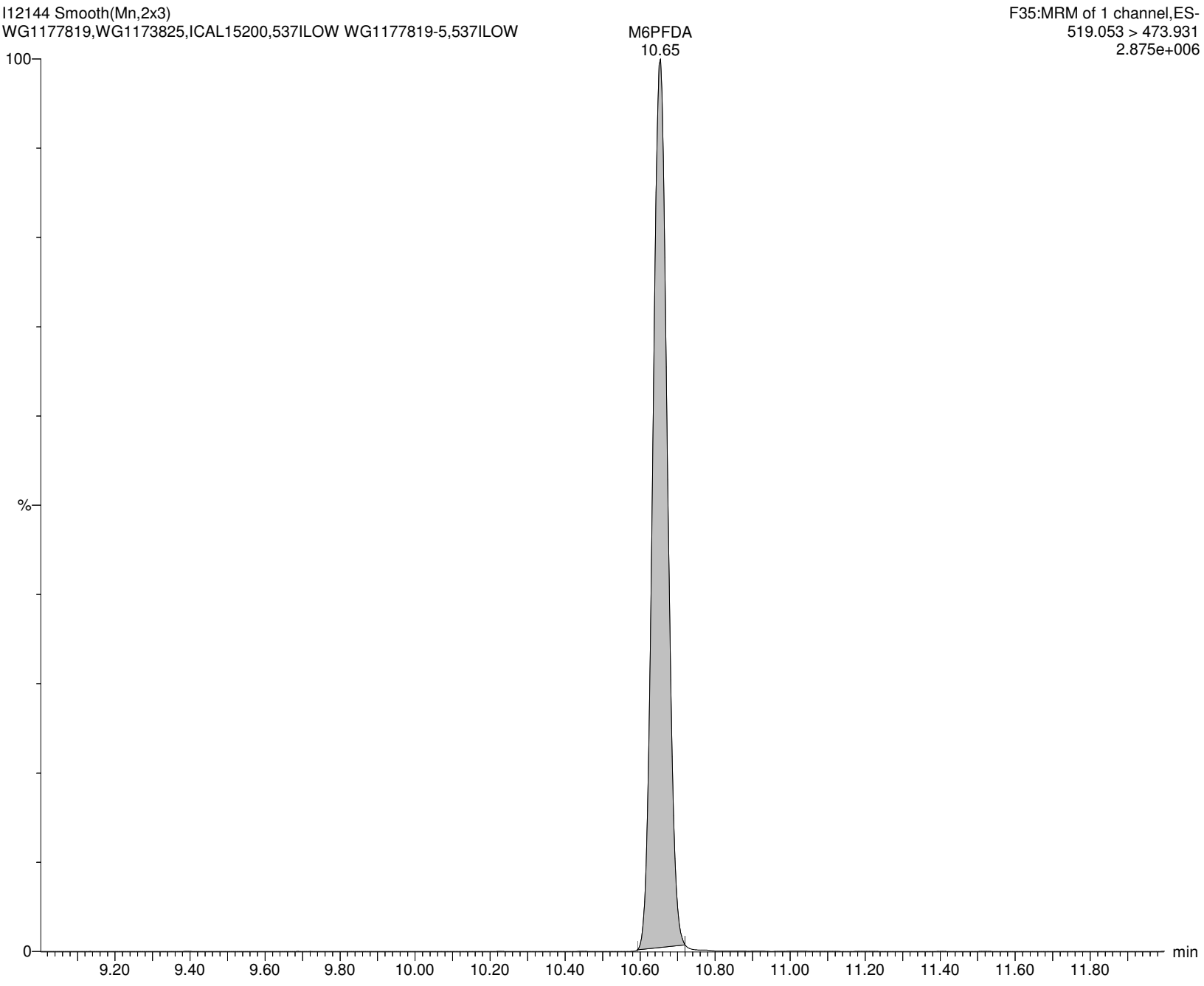

all concentration units in (ng/mL)

Alpha Analytical Inc.
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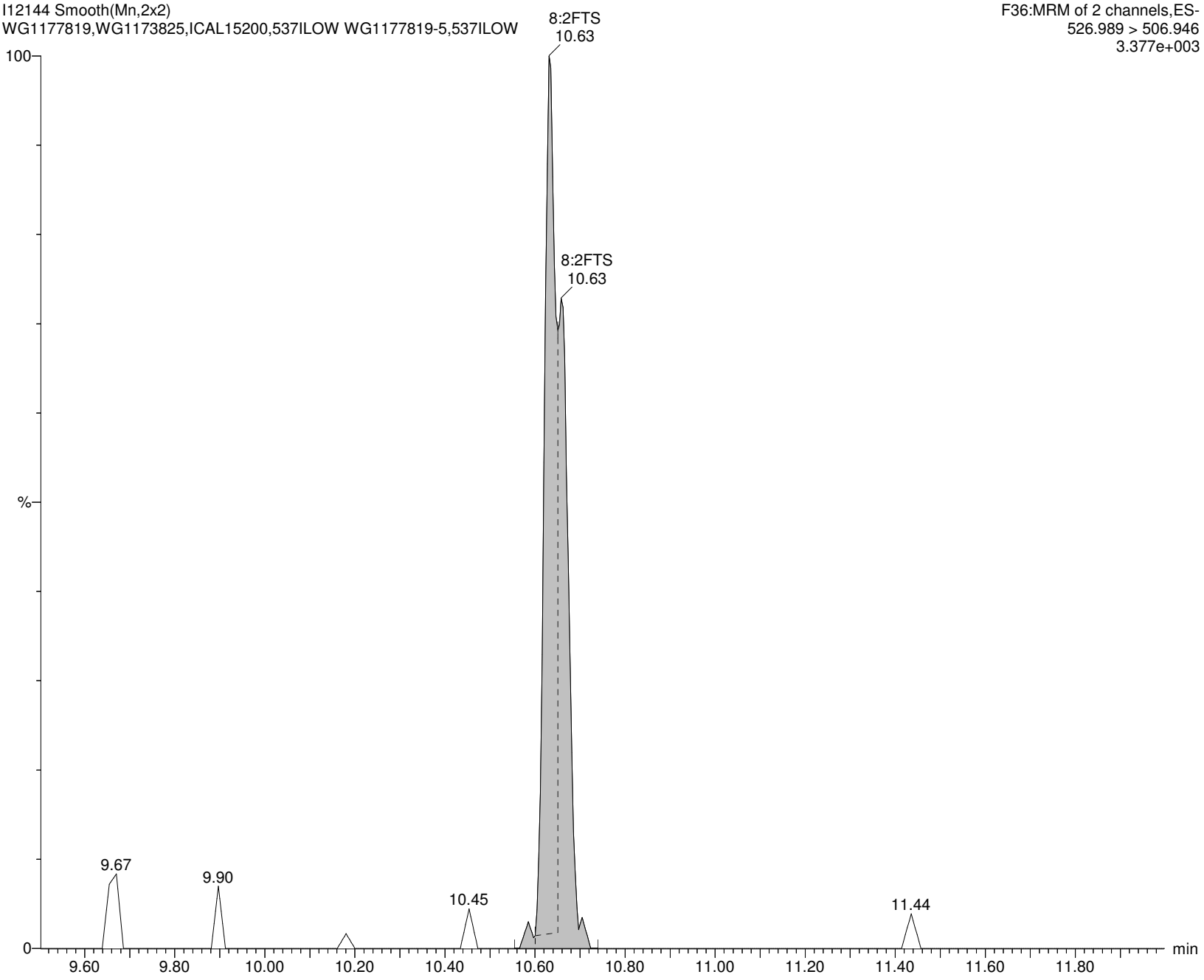
8:2FTS



all concentration units in (ng/mL)

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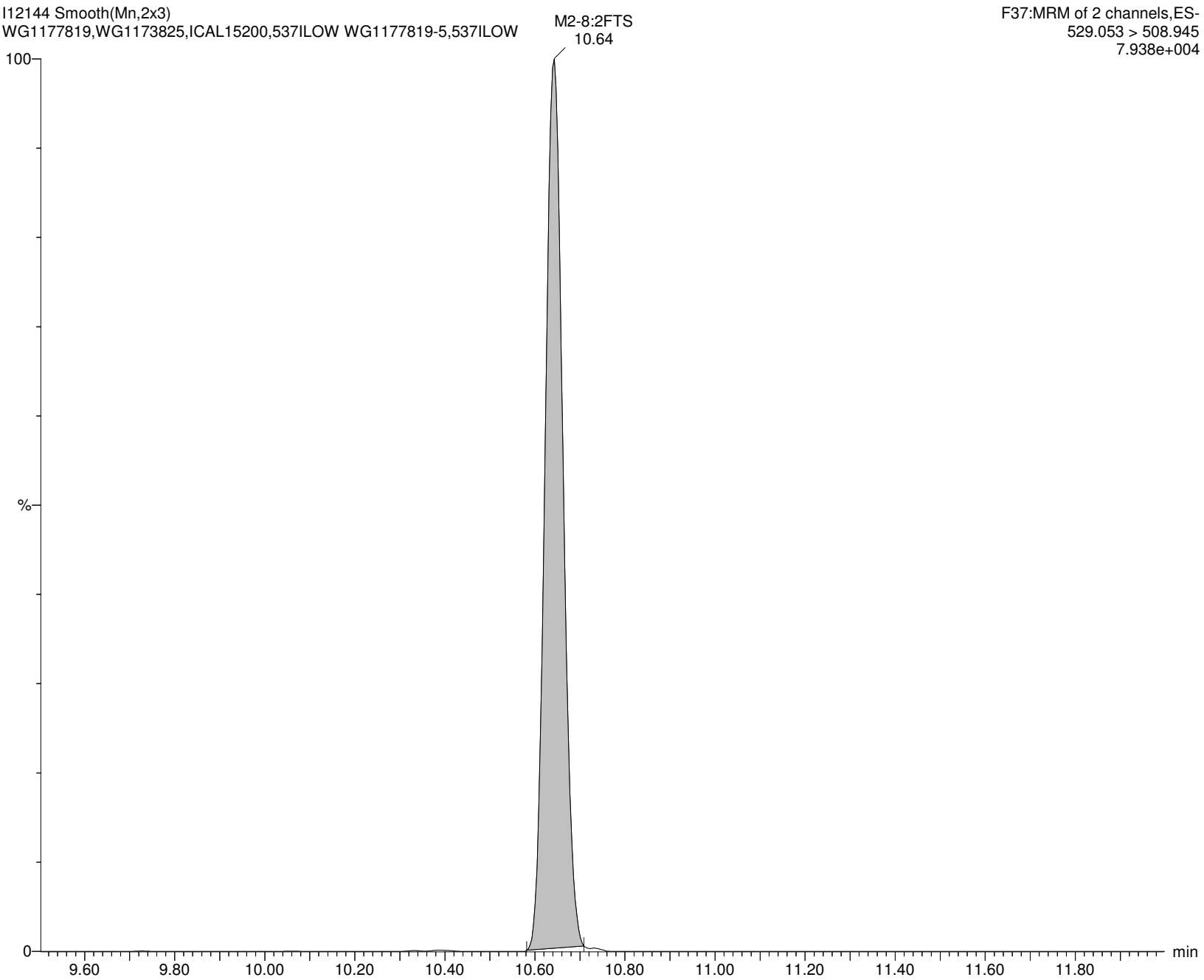

all concentration units in (ng/mL)

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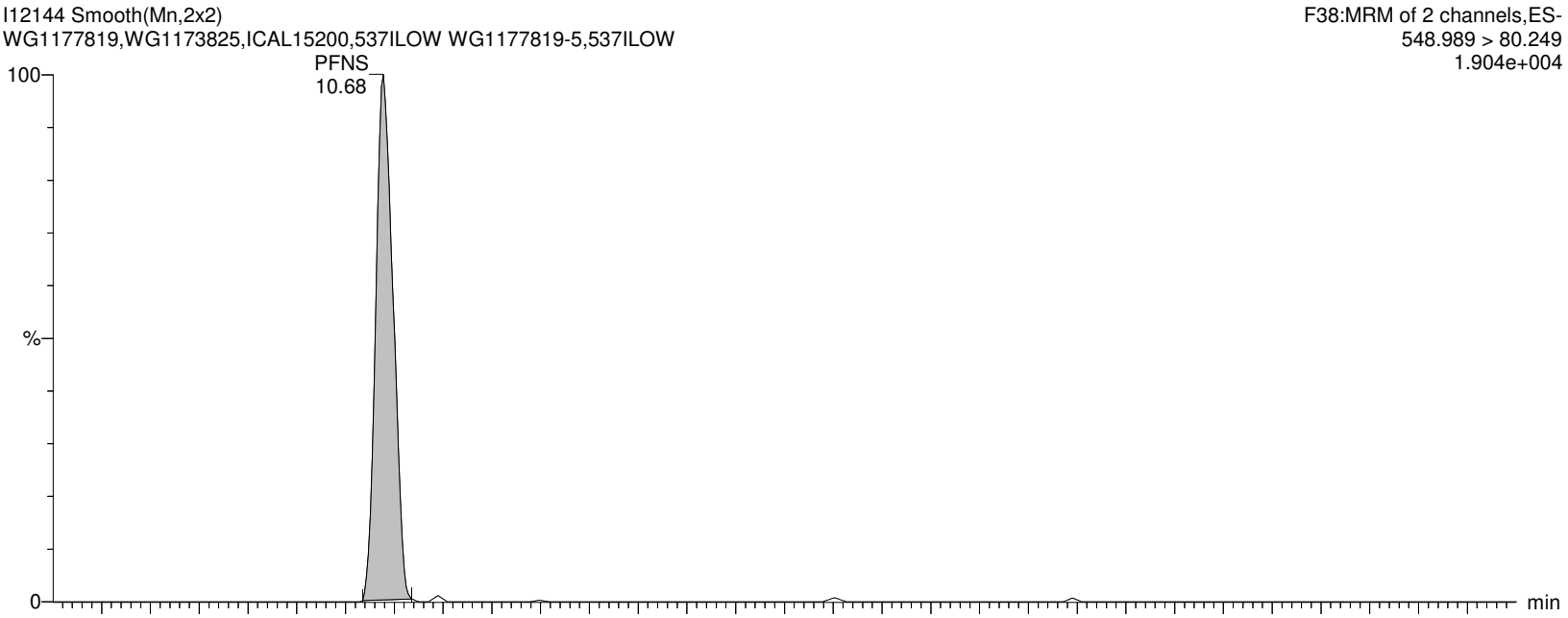

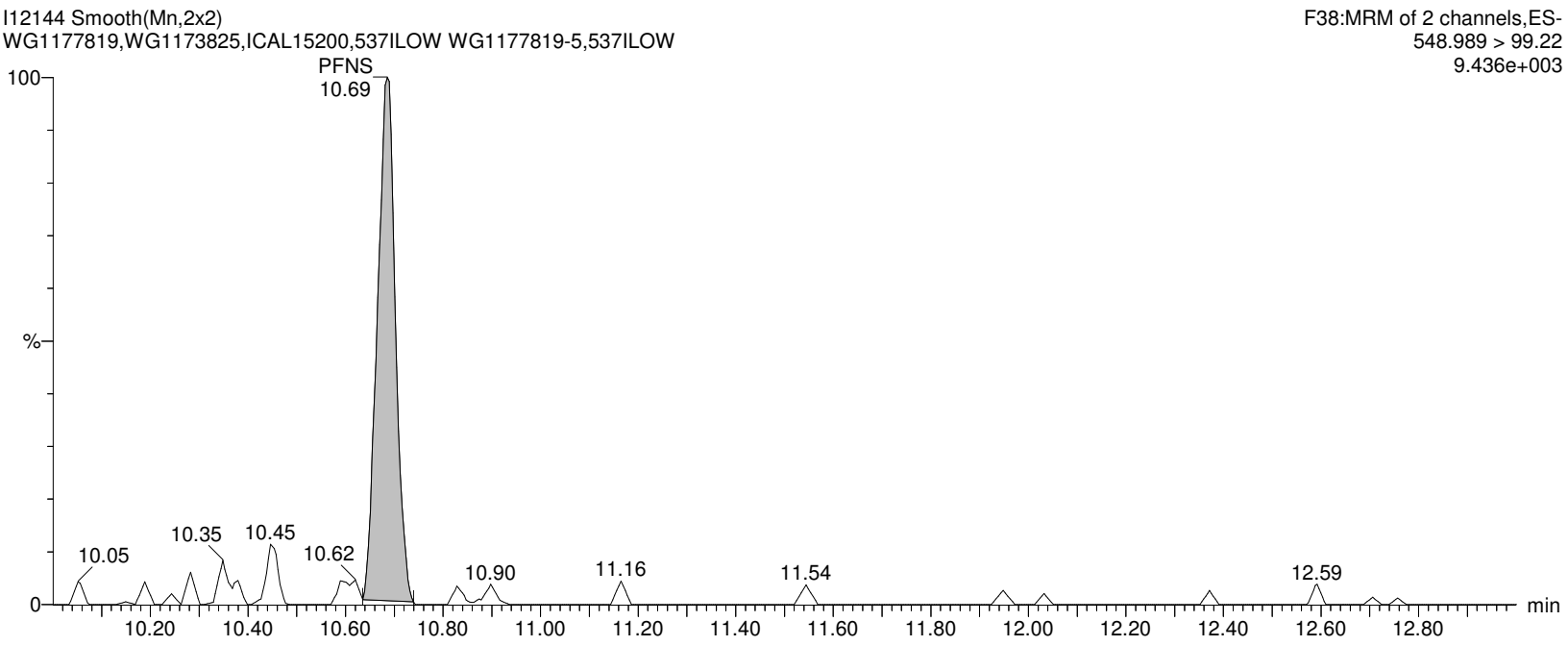

all concentration units in (ng/mL)

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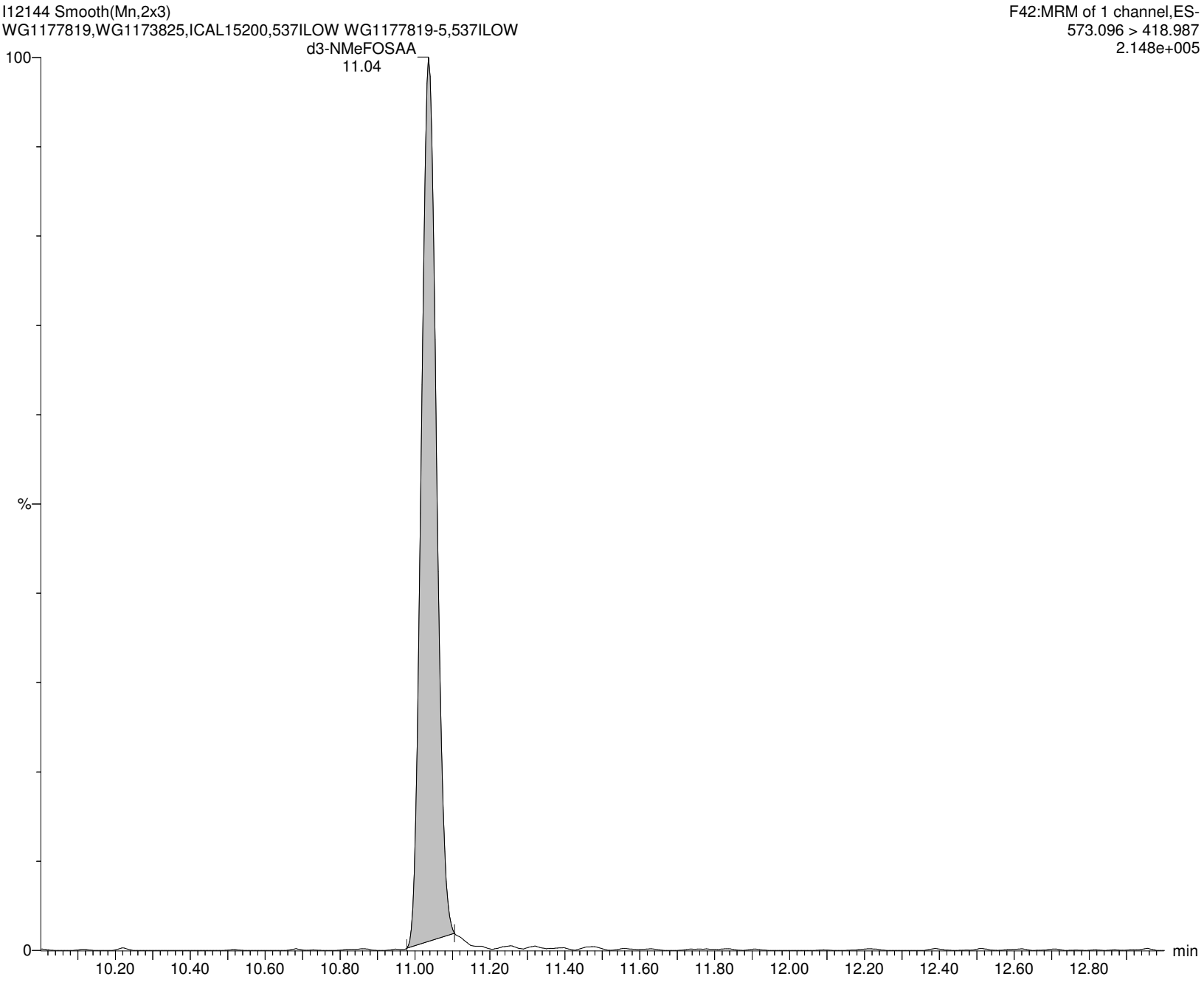
d3-NMeFOSAA



all concentration units in (ng/mL)

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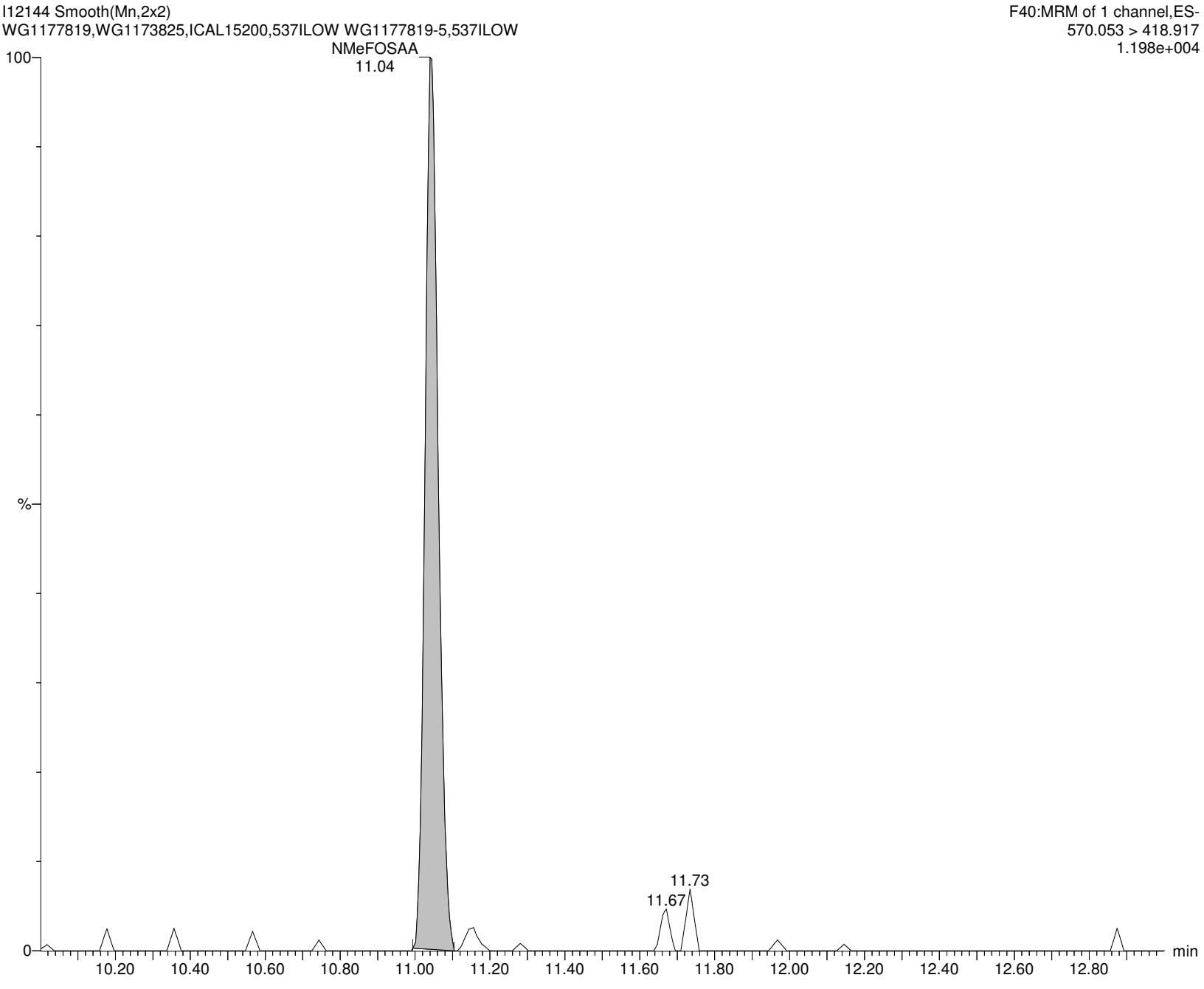

all concentration units in (ng/mL)

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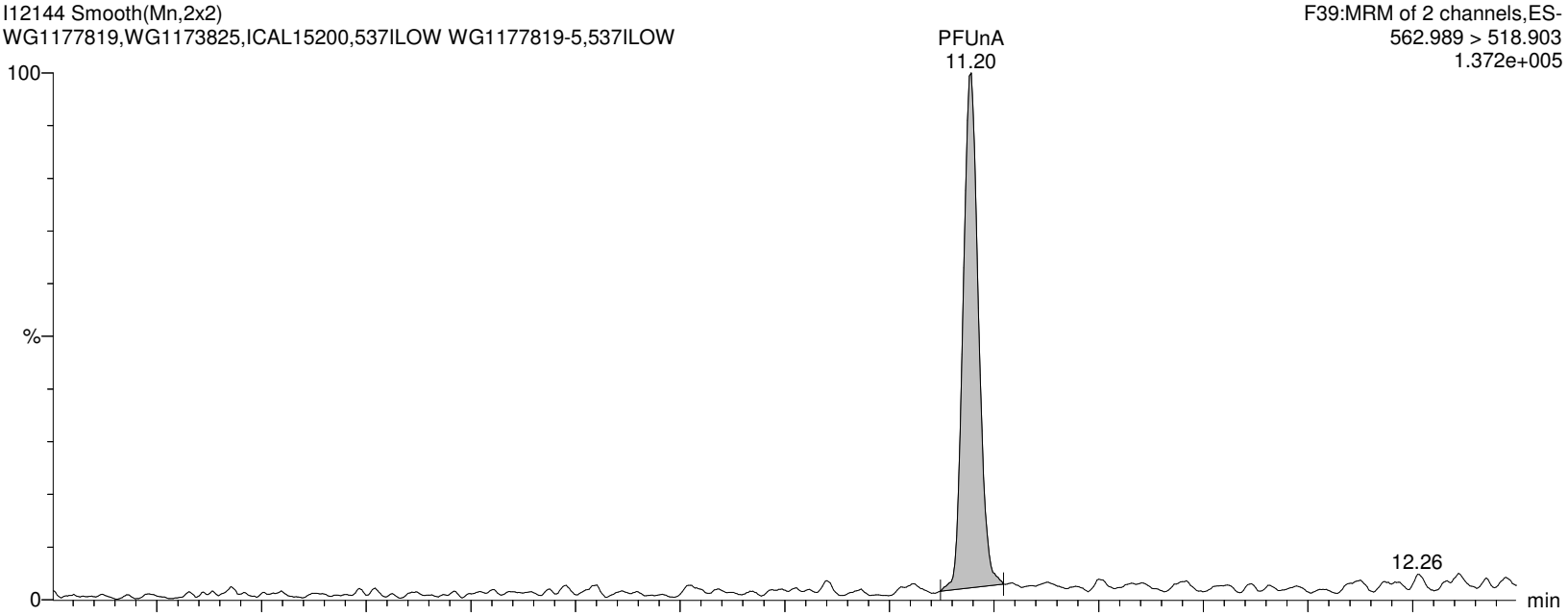

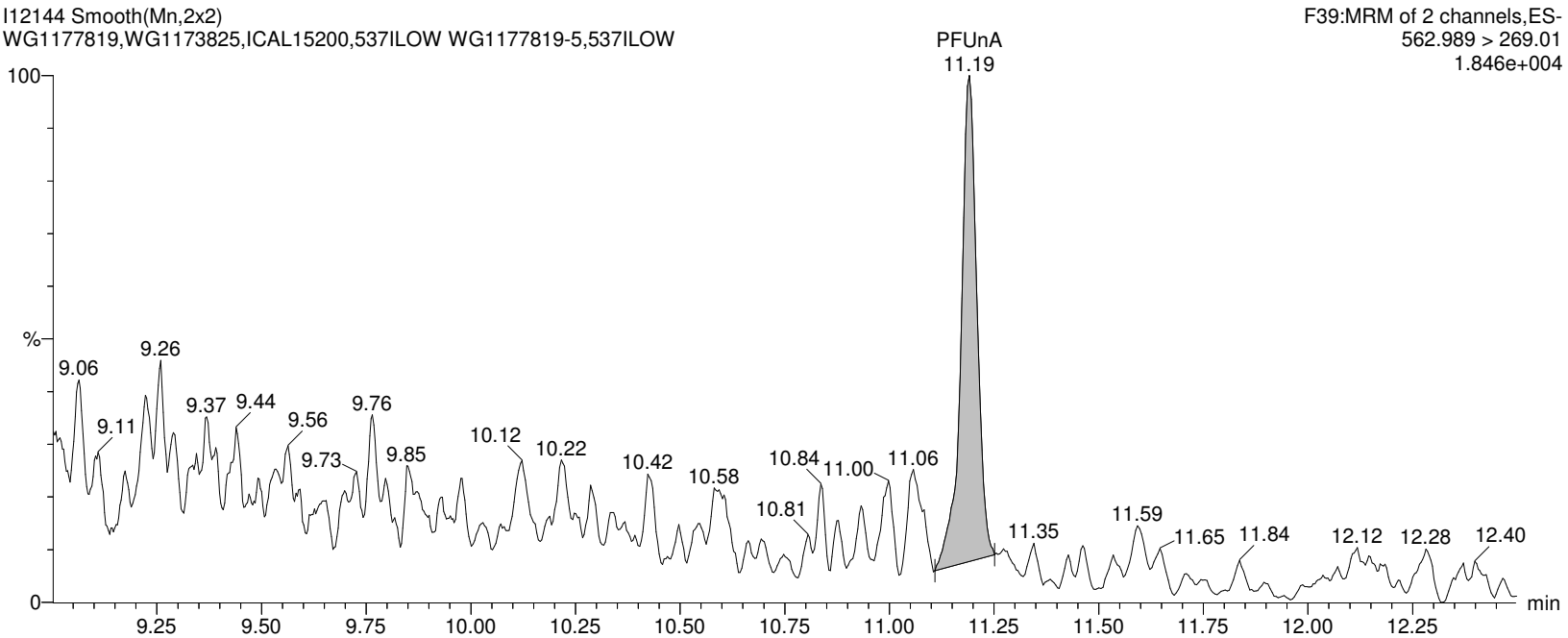

all concentration units in (ng/mL)

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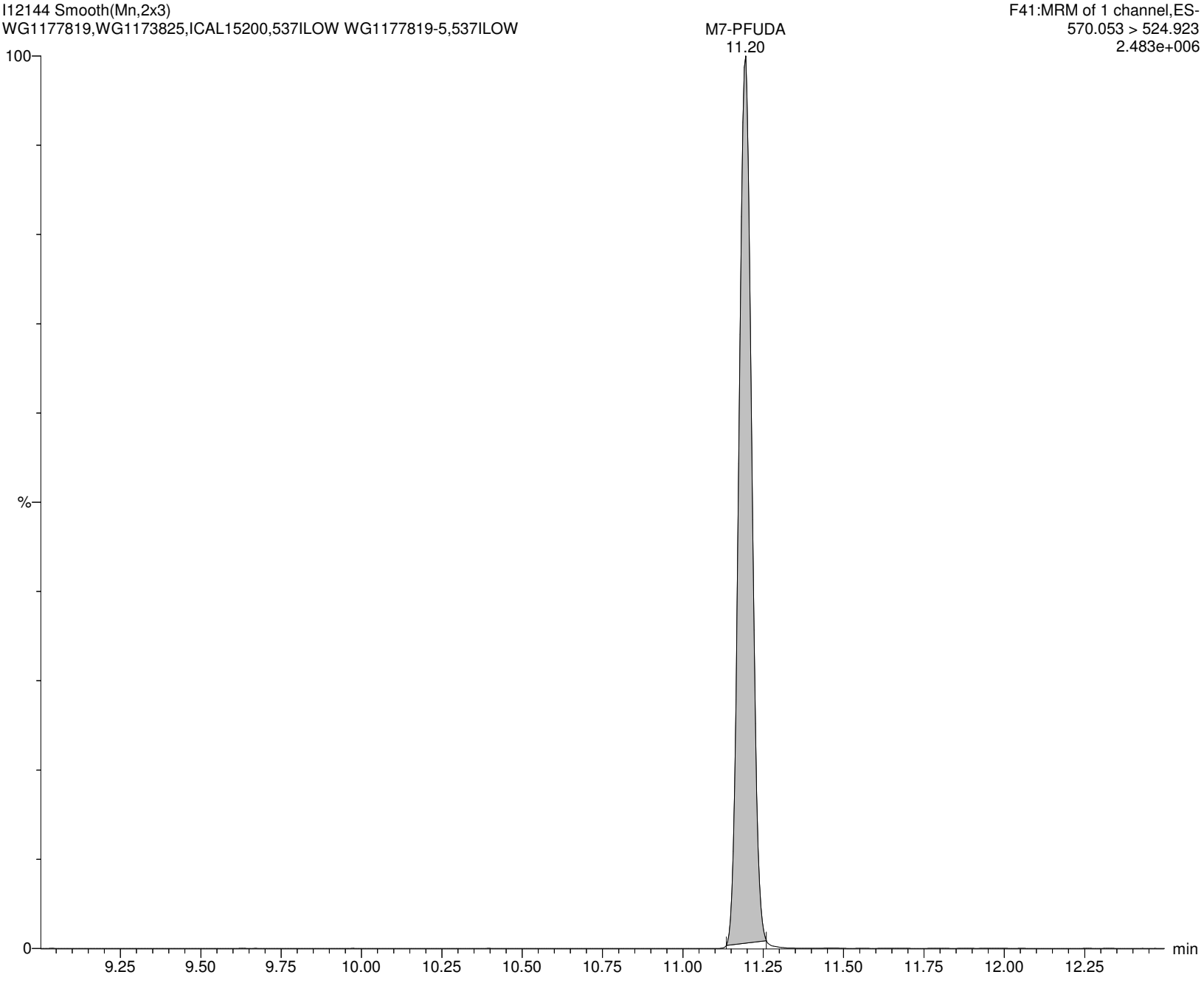
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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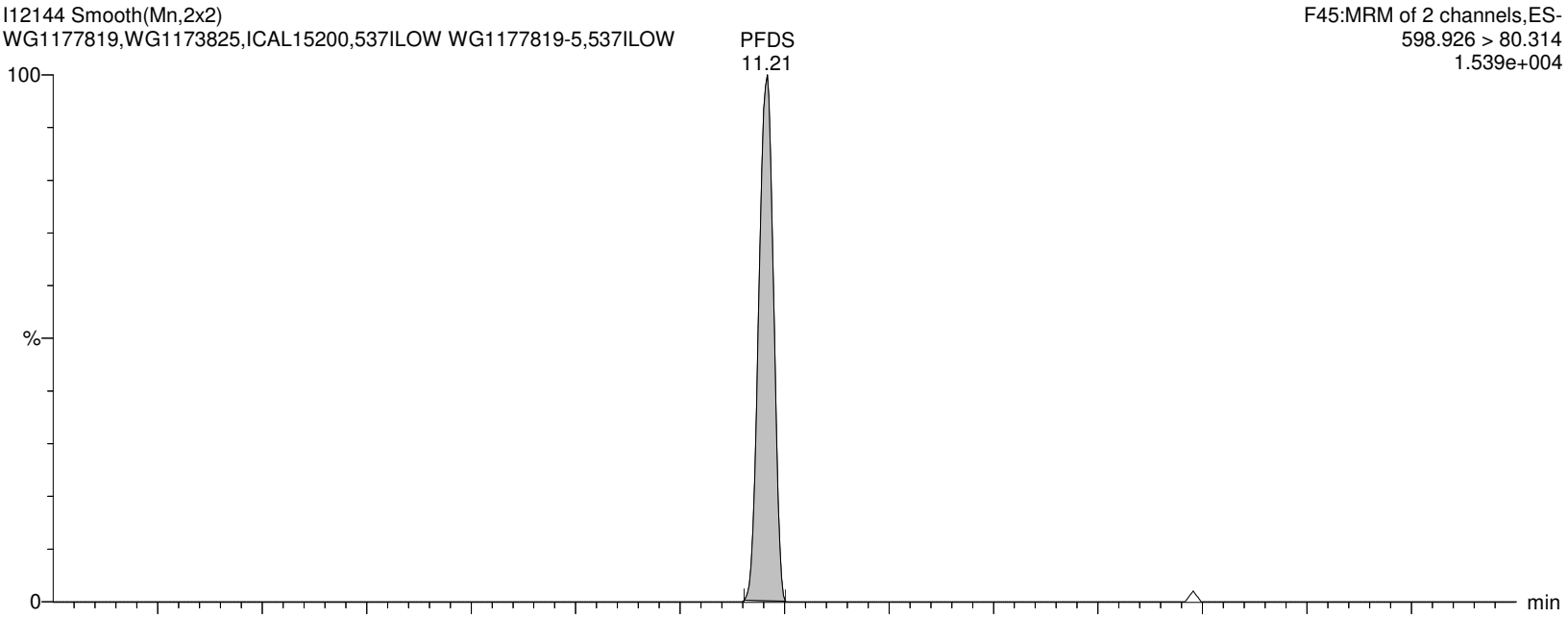

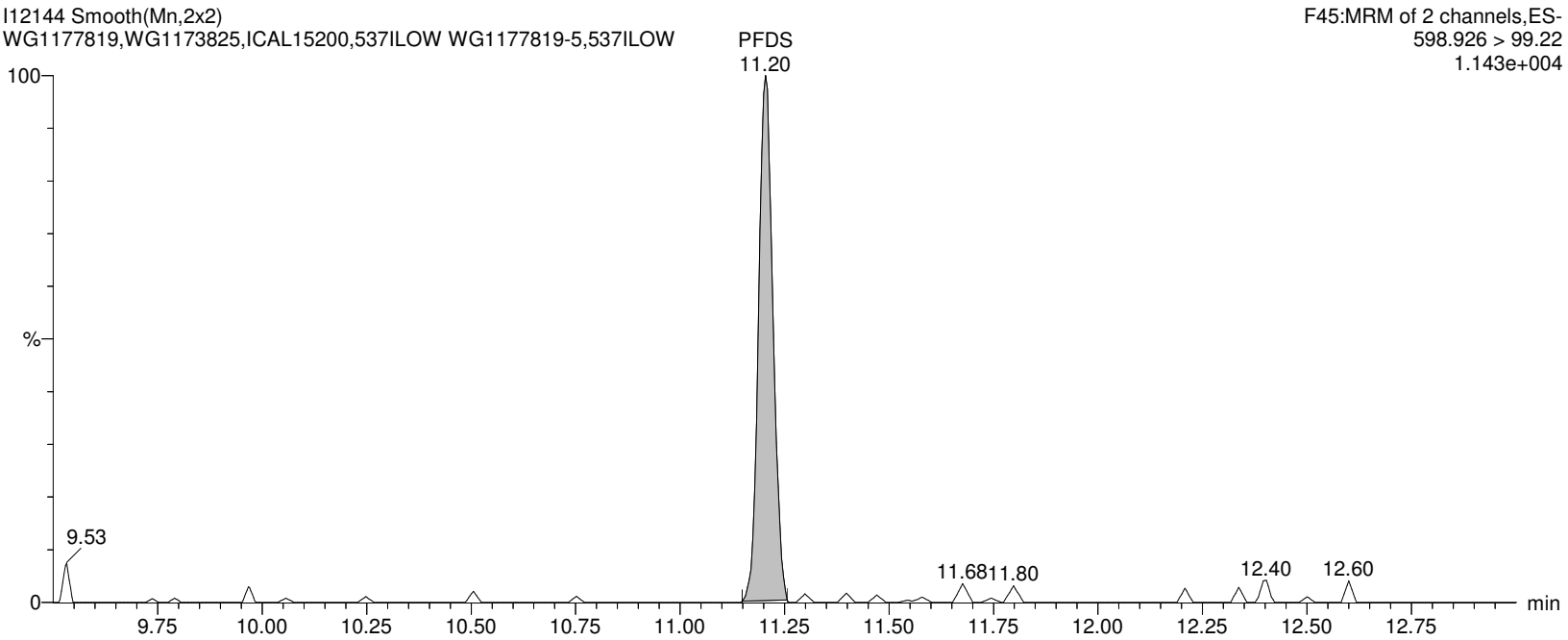

all concentration units in (ng/mL)

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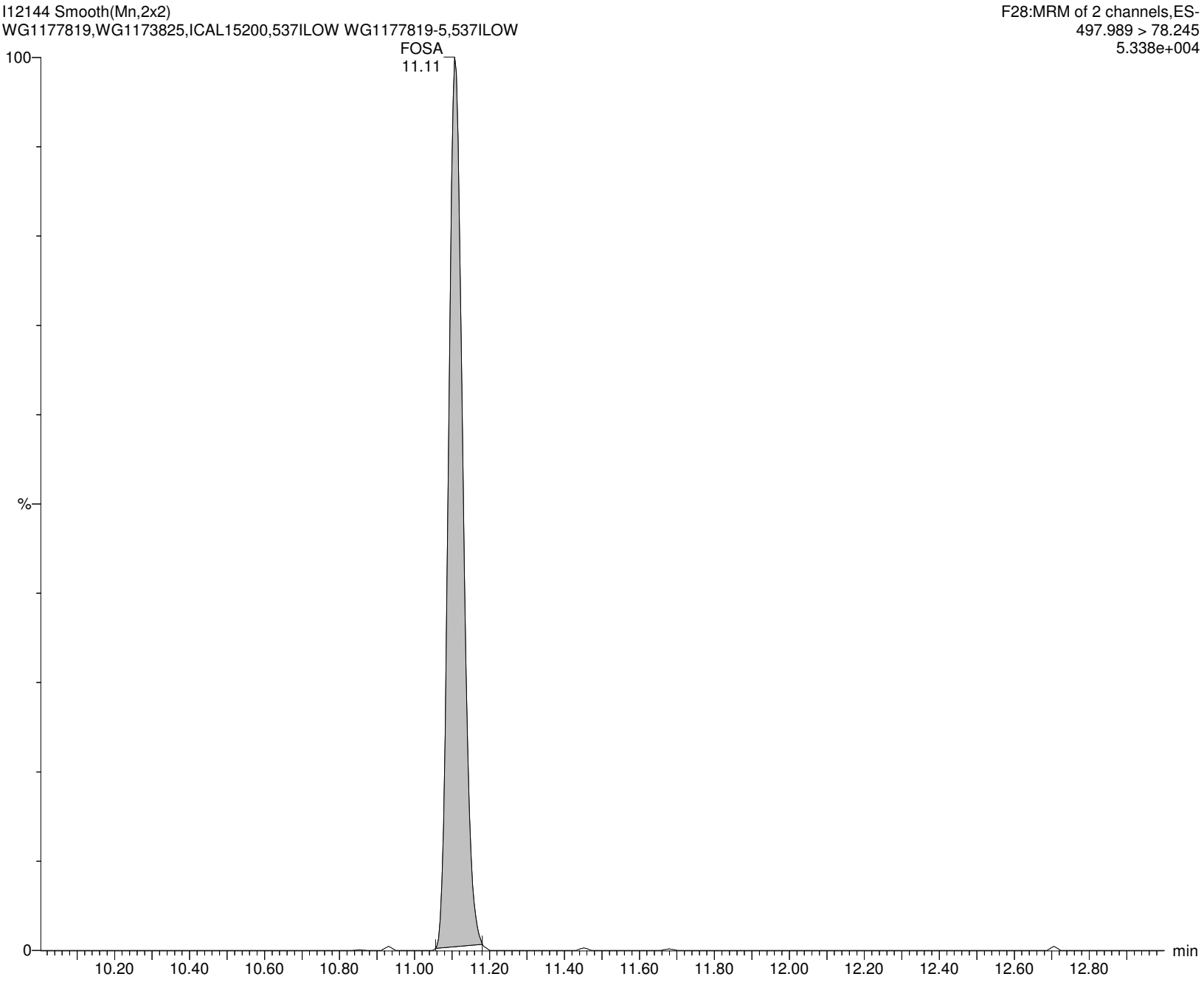

all concentration units in (ng/mL)

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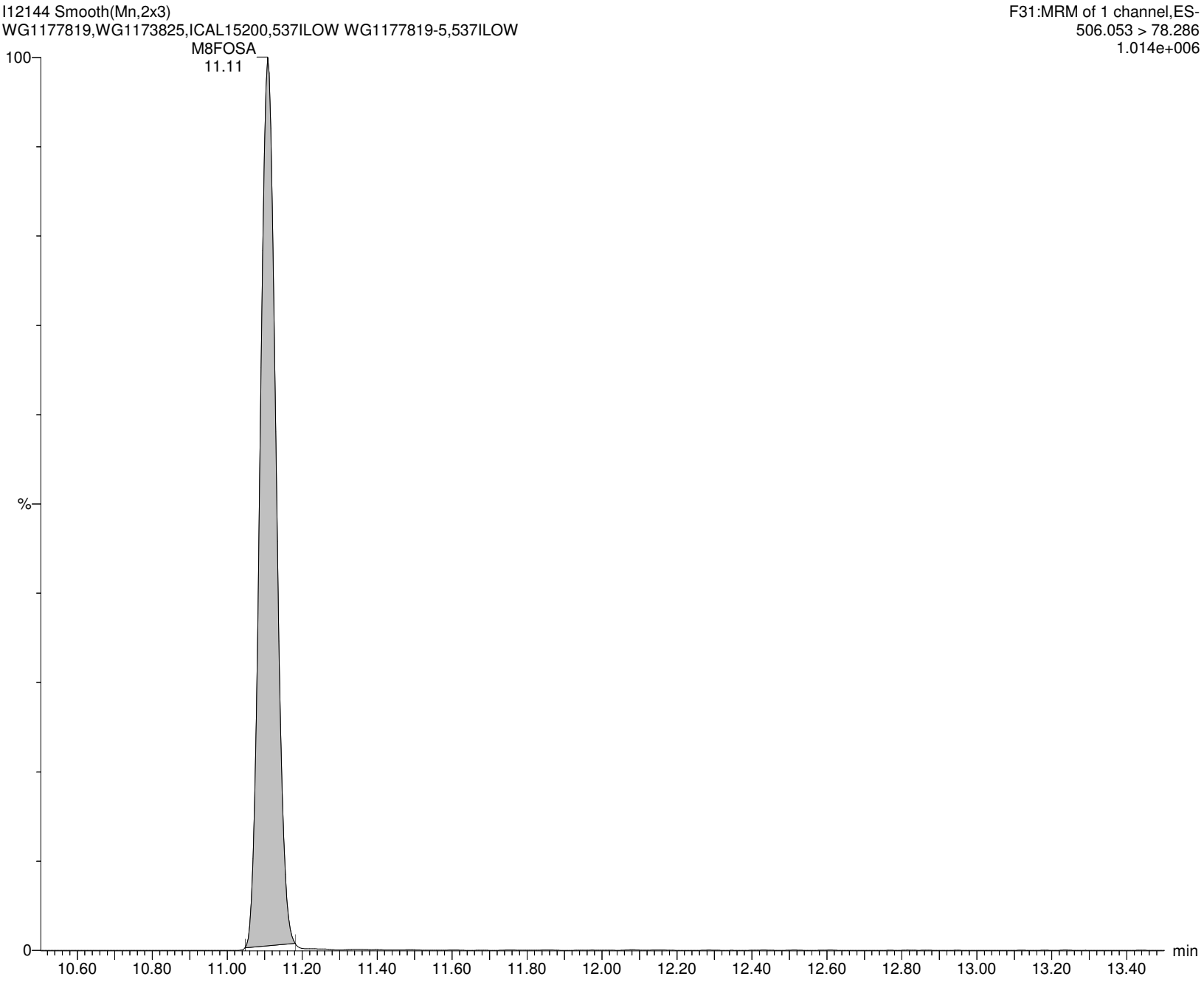

all concentration units in (ng/mL)

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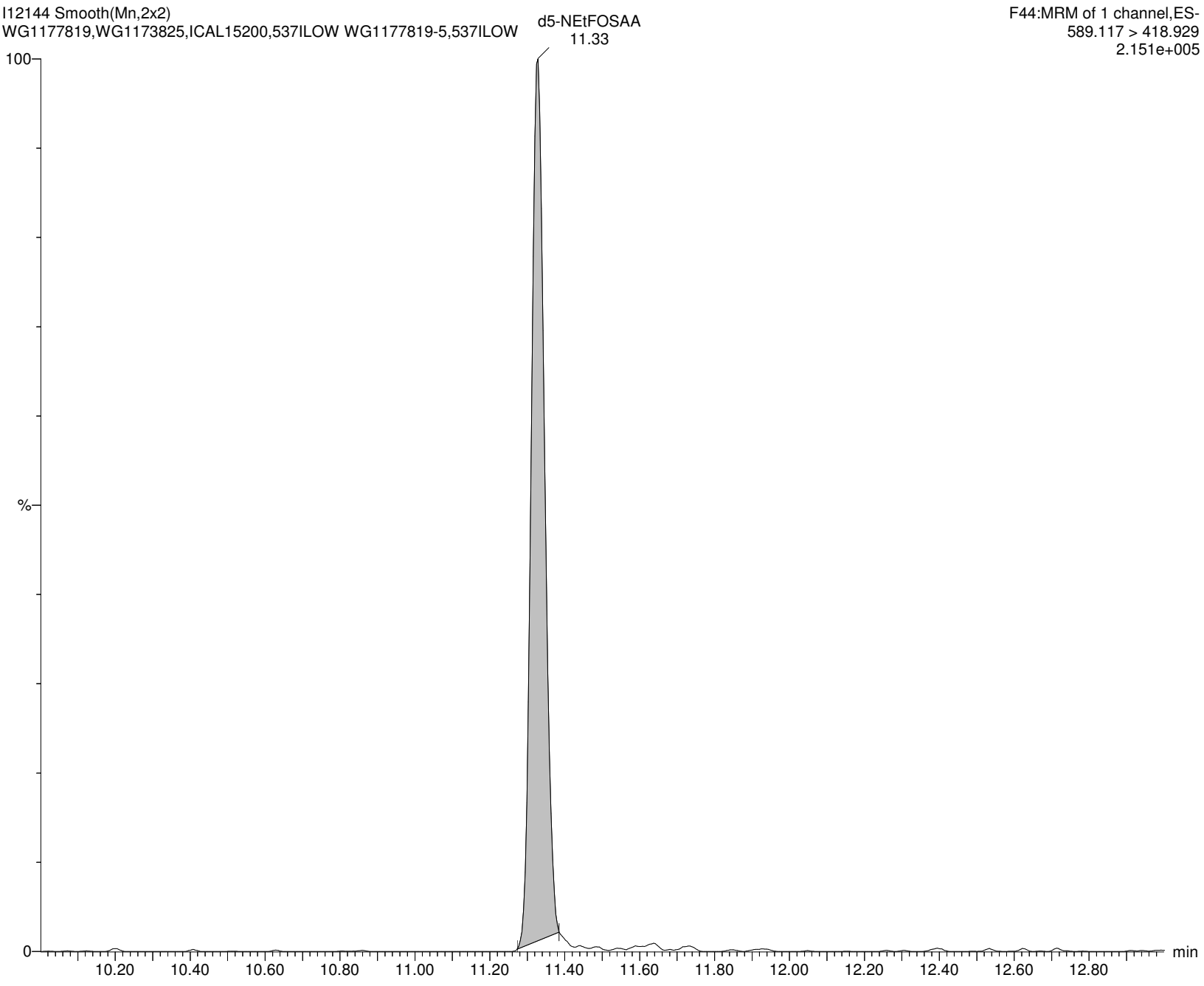
d5-NEtFOSAA



all concentration units in (ng/mL)

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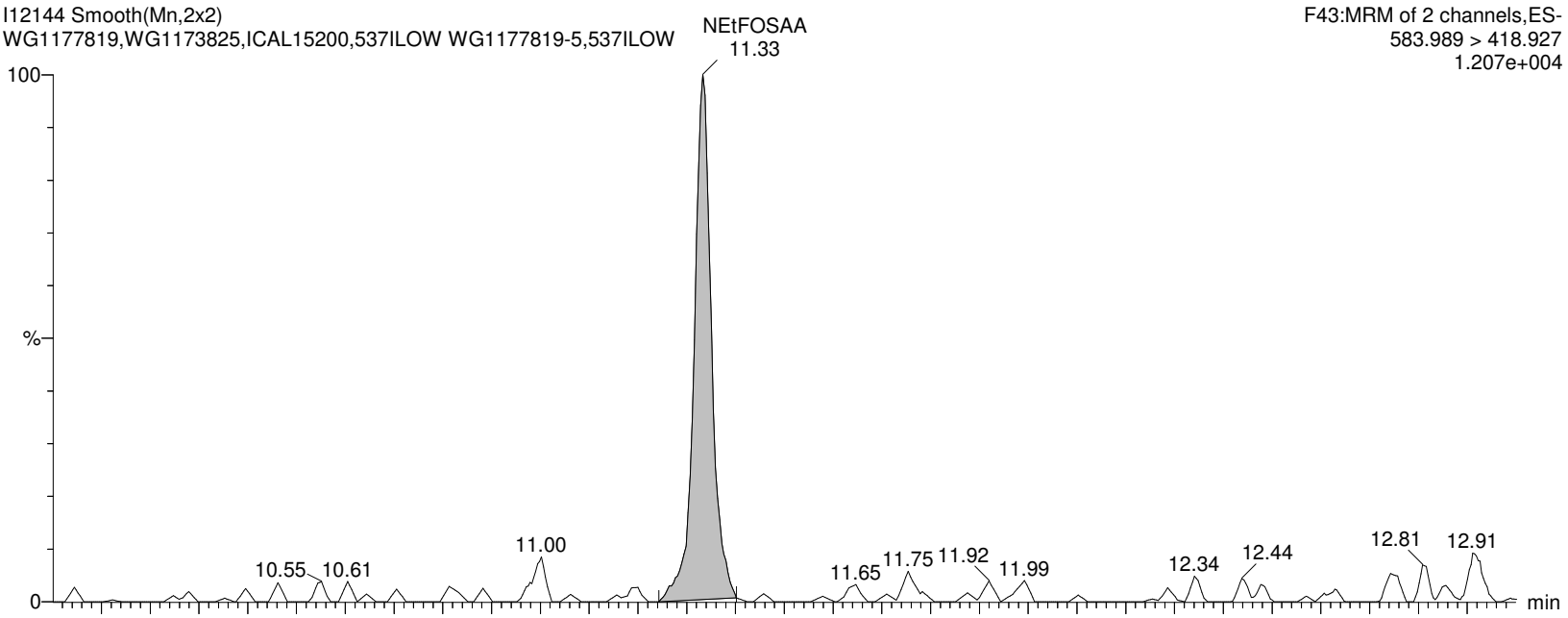

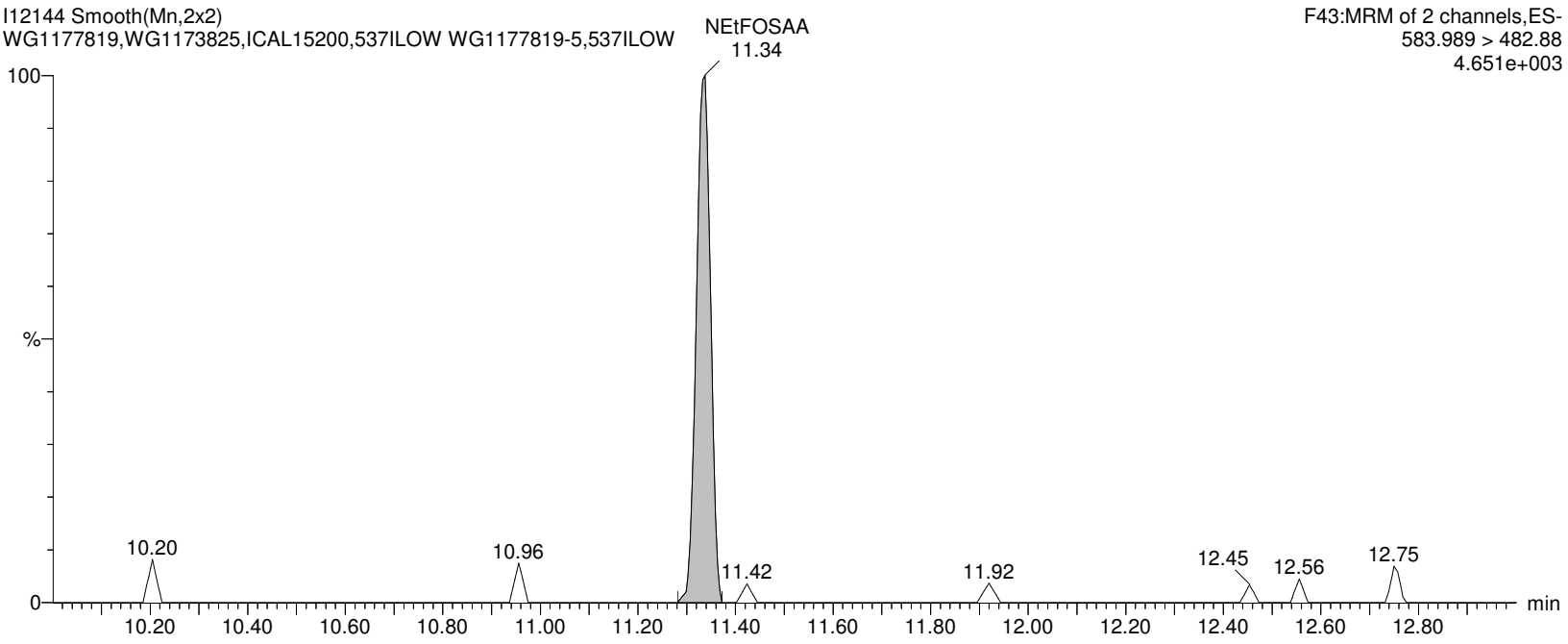

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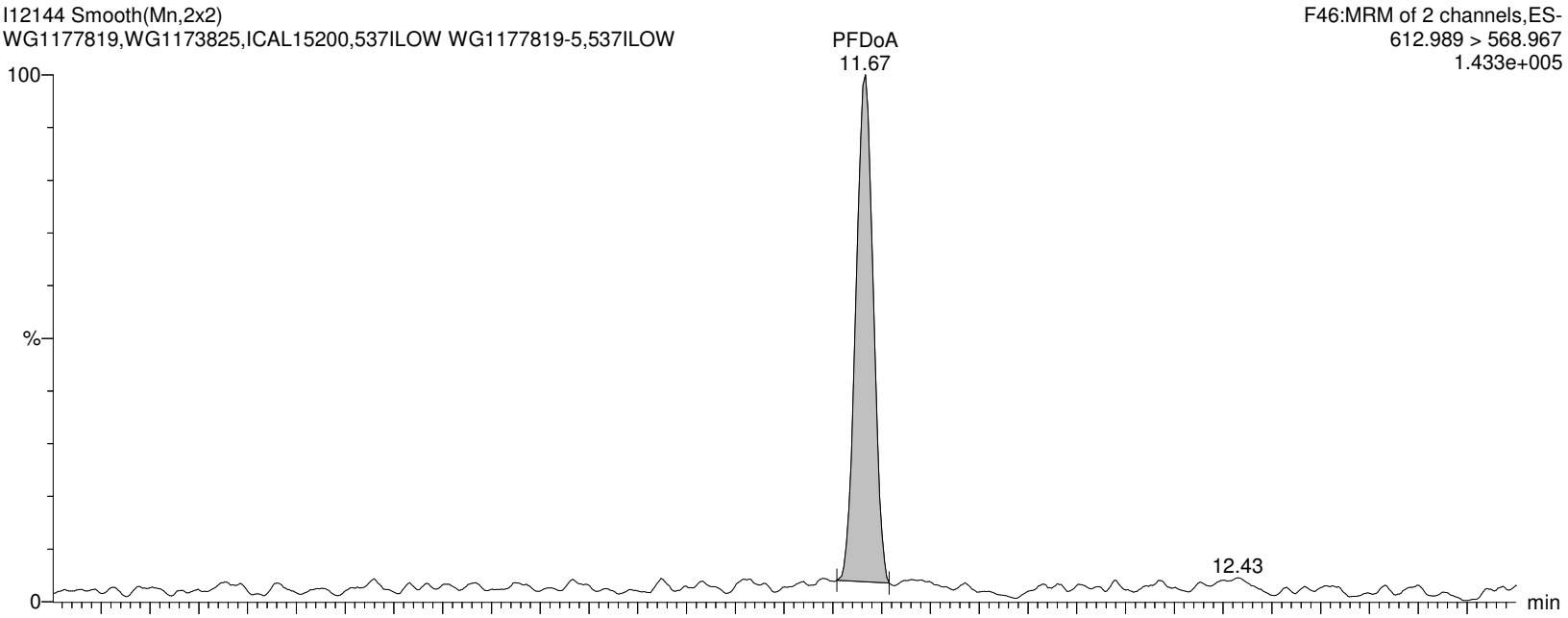

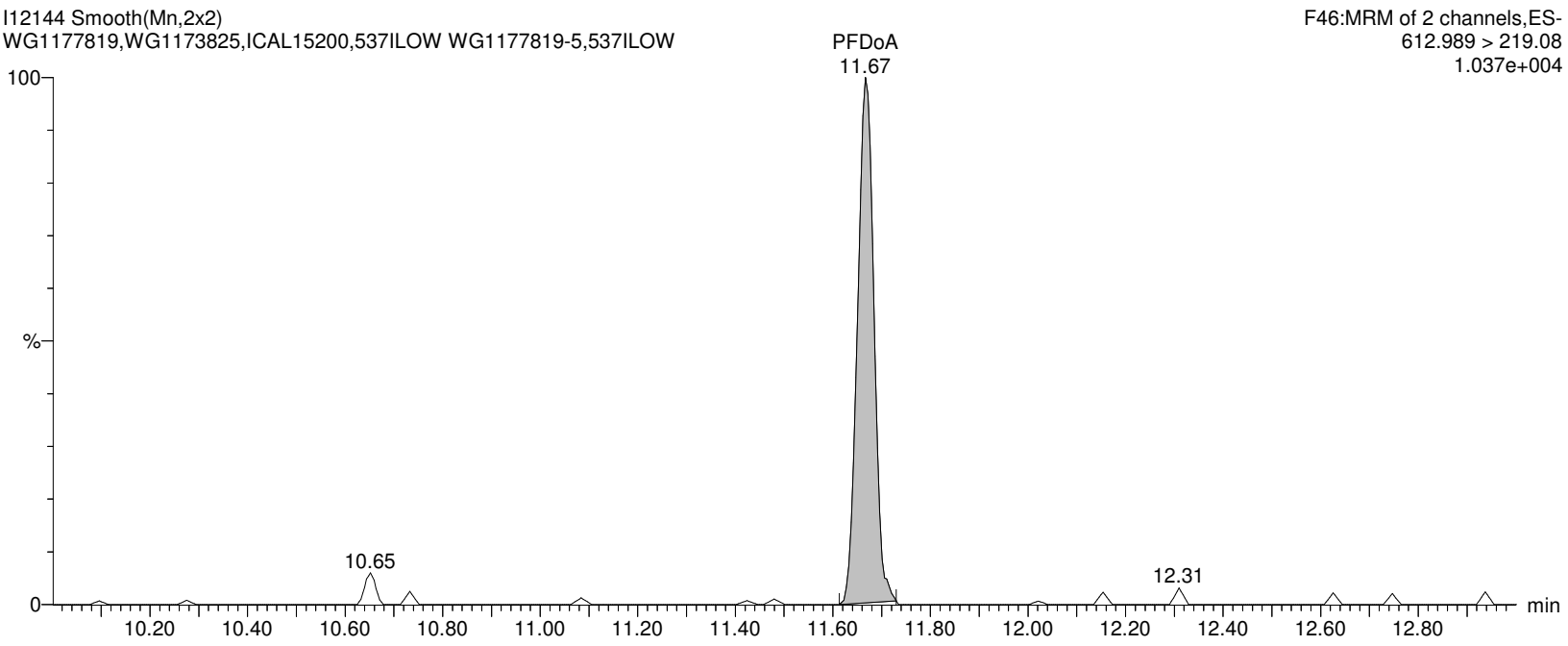

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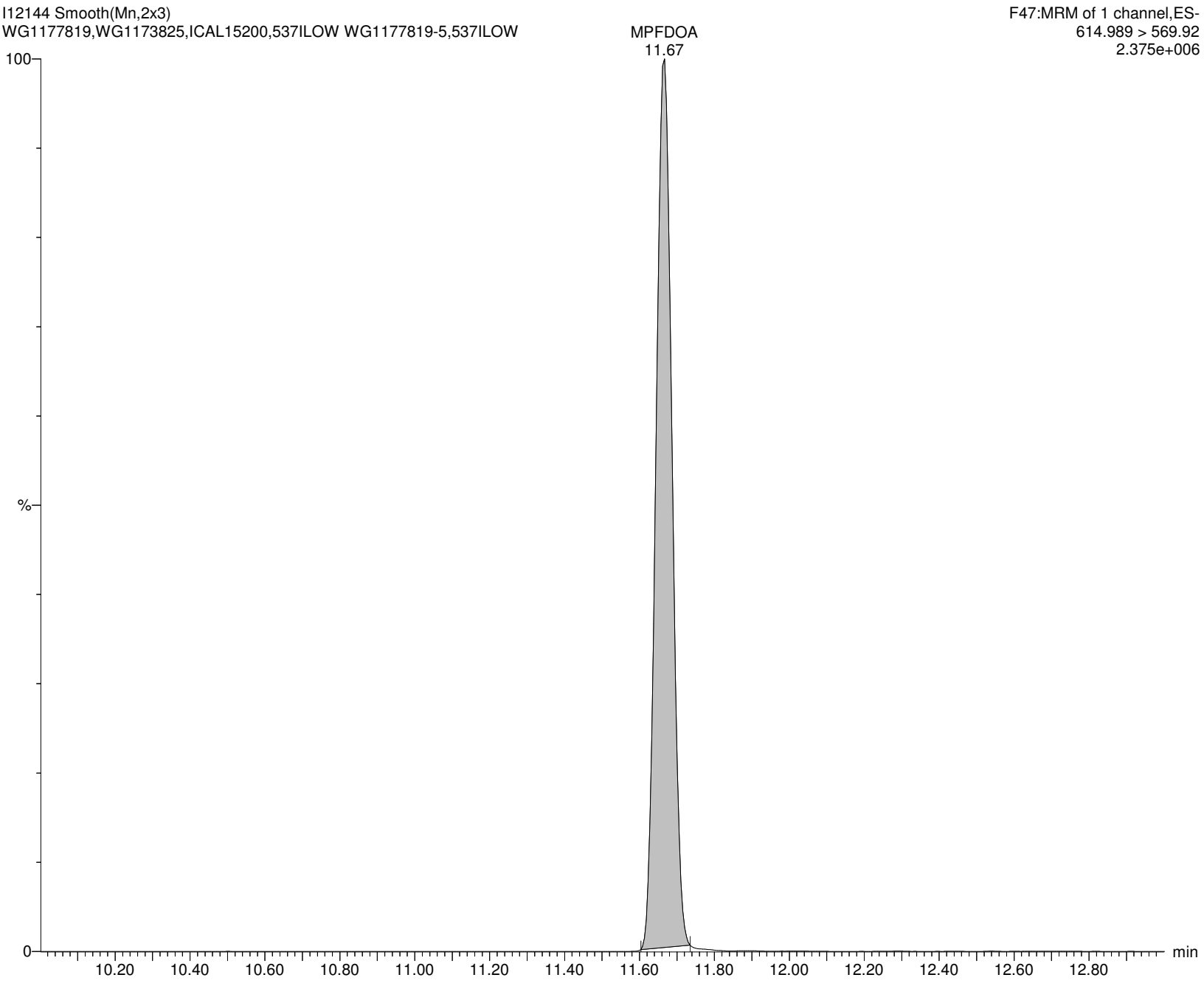

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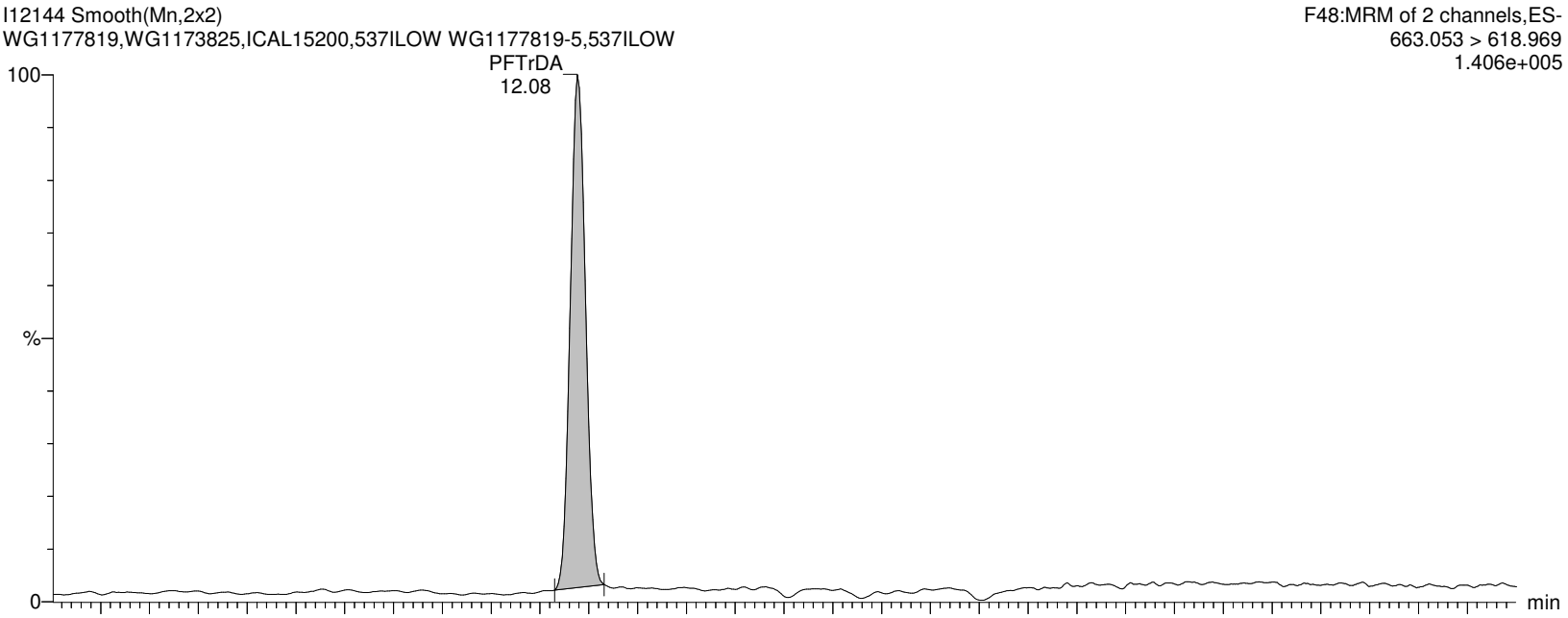

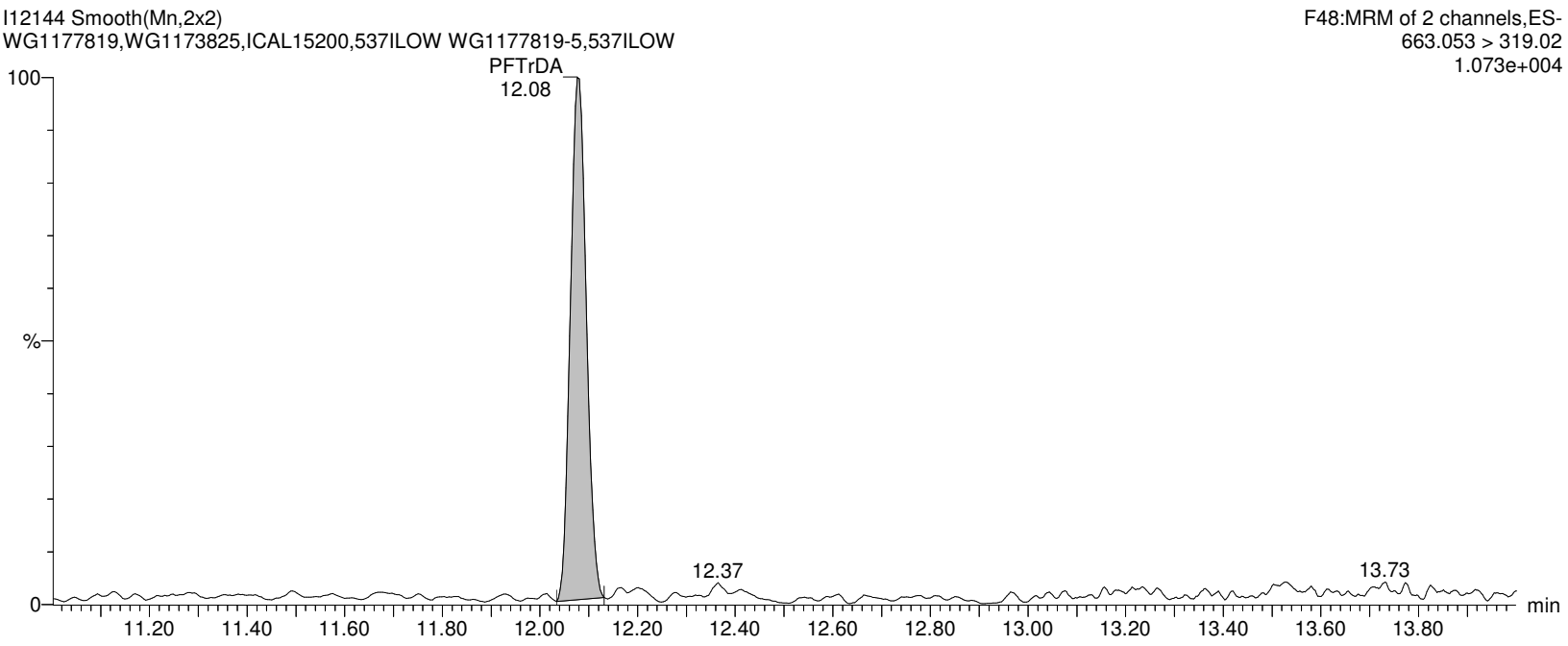

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819D.qld
Last Altered: Monday, November 12, 2018 11:59:03 Eastern Standard Time
Printed: Monday, November 12, 2018 12:00:03 Eastern Standard Time

Name: I12144
ID: WG1177819-5,537ILOW
Date: 10-Nov-2018
Time: 04:39:27
Description: WG1177819,WG1173825,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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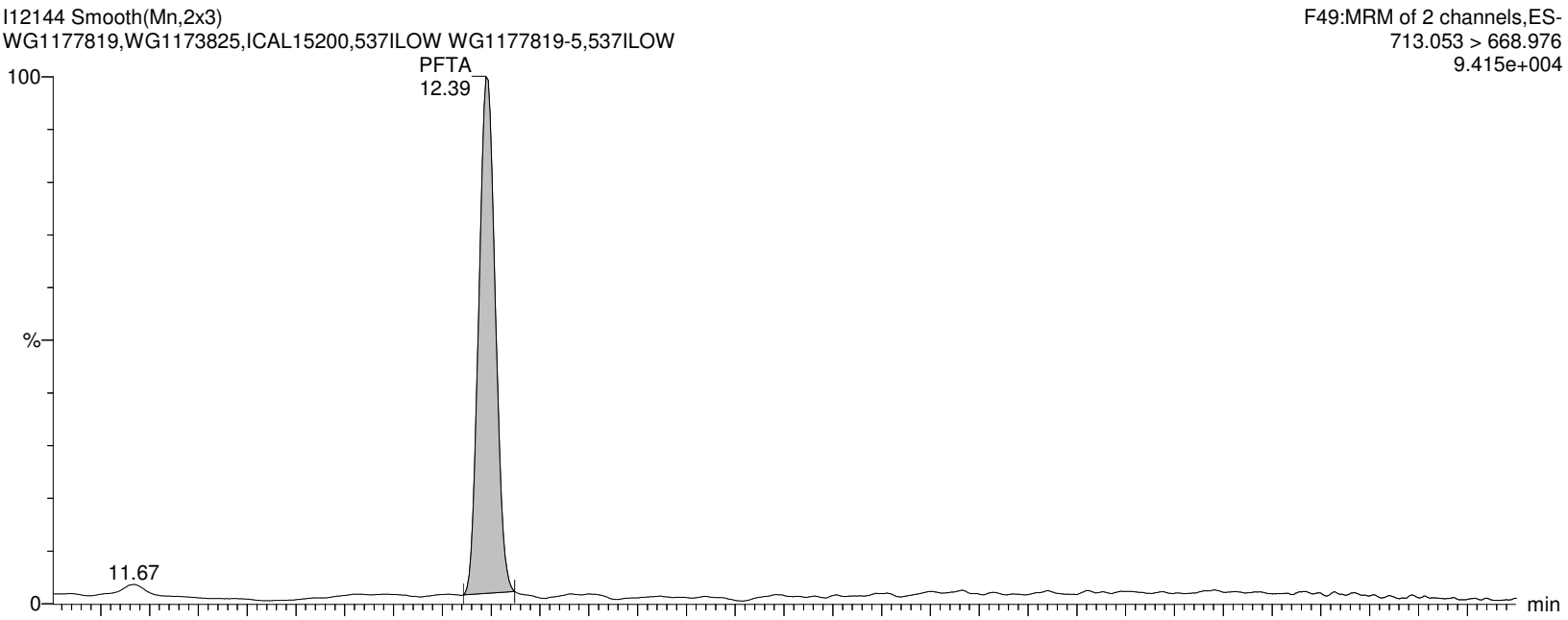

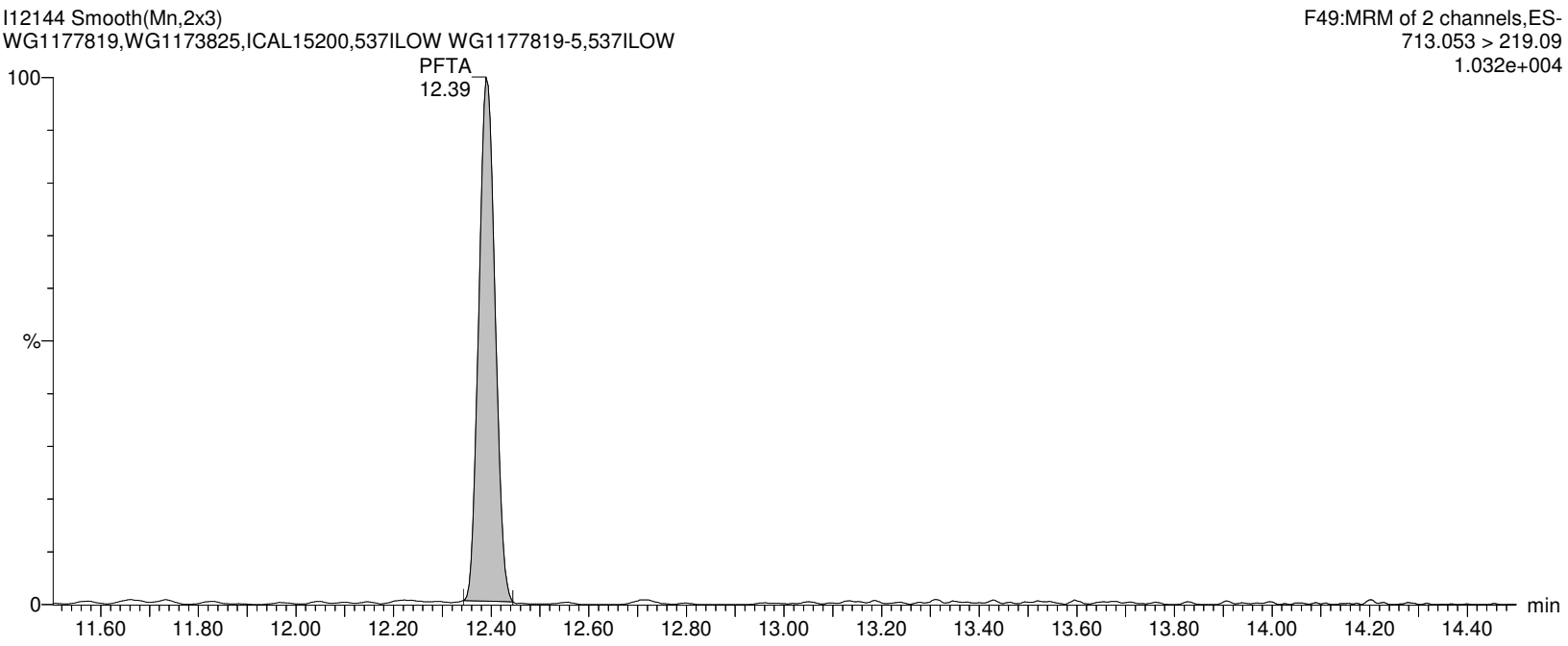

all concentration units in (ng/mL)

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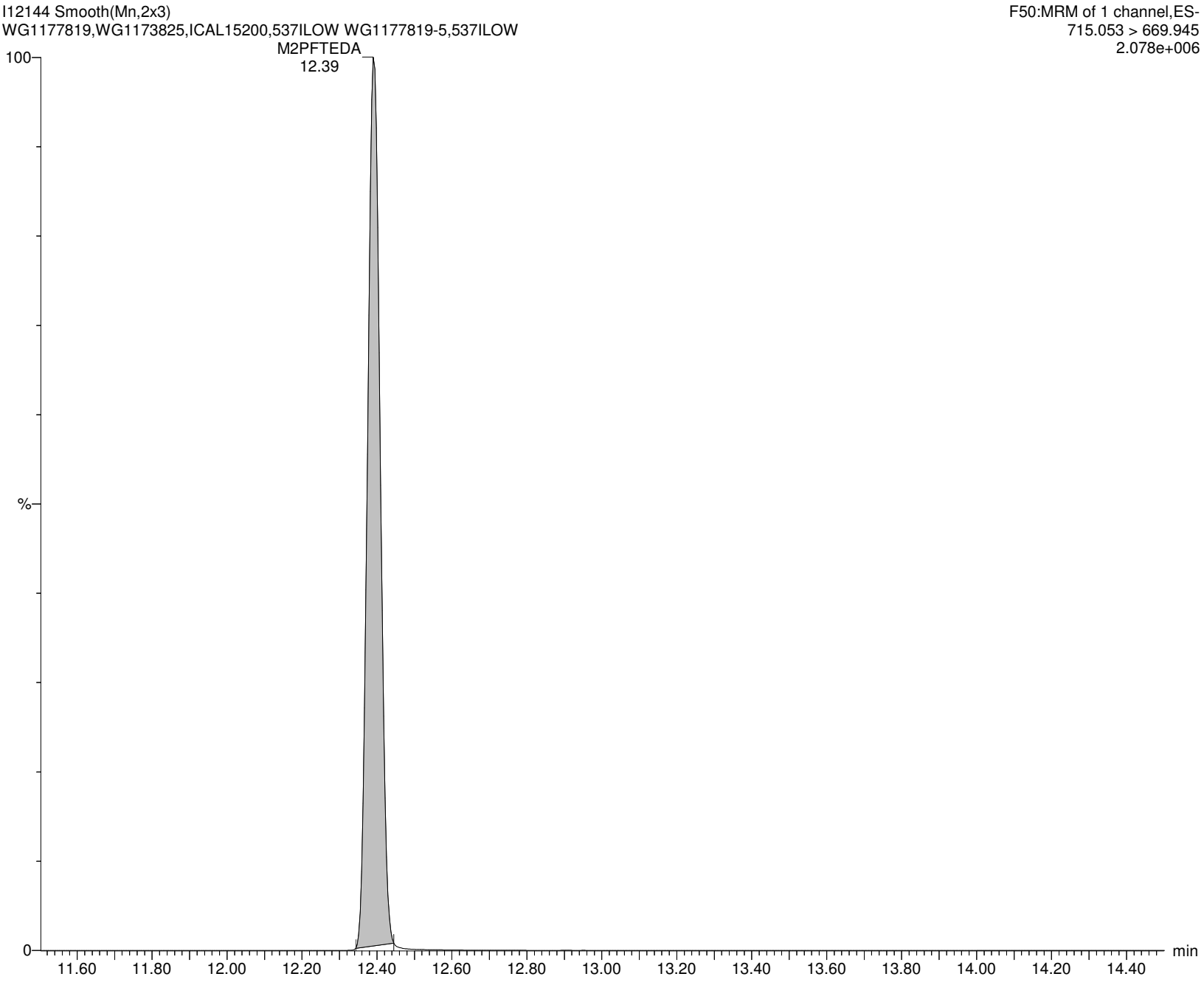

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:01 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1177819-6,537IMED
Name: I12157
Date: 10-Nov-2018
Time: 08:14:42
Description: WG1177819,WG1175174,ICAL15200,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	77370		10.659		na	106.6
2	M3PFBA	INT STD	2.16	215.926 > 172.122	89378		9.656		na	96.6
3	MPFBA	INT STD	2.16	216.926 > 172.137	83041		9.781		na	97.8
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	105422		10.524		na	105.2
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	106293		9.702		na	97.0
6	PFBS	375-73-5	5.81	298.989 > 80.295	17693		9.653		na	109.1
7	M3PFBS	INT STD	5.81	301.989 > 80.254	20673		8.554		na	85.5
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	8147		9.613	1.96	YES	102.8
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	8580		5.723		na	57.2
10	PFHxA	307-24-4	7.07	312.989 > 269.028	136791		10.697	19.79	NO	107.0
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	131767		9.257		na	92.6
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	21619		8.372	2.06	NO	89.1
13	PFHpA	375-85-9	8.34	362.926 > 319.014	183220		10.799	5.19	NO	108.0
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	172336		10.297		na	103.0
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	3679		1.515	2.36	YES	89.1
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	16409		7.797	1.52	NO	105.4
17	PFHxS	355-46-4		398.926 > 80.295	20088		9.312		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	14925		11.118		na	111.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	171176		10.867	9.02	NO	108.7
21	M2PFOA	INT STD	9.28	415.032 > 369.968	197579		10.464		na	104.6
22	PFOA	335-67-1		412.989 > 368.9	171176		10.867		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	161460		10.133		na	101.3
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	6987		10.248		na	107.9
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	6987		5.614		na	56.1
26	PFHpS	375-92-8	9.37	448.926 > 80.257	11553		10.837	0.89	YES	114.1
27	PFNA	375-95-1	10.02	462.989 > 418.931	135904		11.001	4.68	NO	110.0
28	M9PFNA	INT STD	10.02	472.053 > 426.947	147914		9.307		na	93.1
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	4673		1.852	3.72	YES	92.6
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	13581		7.552	1.65	YES	103.4
31	PFOS	1763-23-1		498.989 > 80.294	18254		9.403		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	19388		11.968		na	119.7
33	M8PFOS	INT STD	10.07	507.053 > 80.294	17219		9.524		na	95.2
34	PFDA	335-76-2	10.65	513.053 > 468.906	121551		10.564	5.89	NO	105.6
35	M2PFDA	INT STD	10.65	515.053 > 469.934	148950		10.019		na	100.2
36	M6PFDA	INT STD	10.65	519.053 > 473.931	129714		9.645		na	96.5
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	4757		10.173		na	106.0
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	3888		5.321		na	53.2
39	PFNS	68259-12-1	10.67	548.989 > 80.249	15579		12.804	1.30	NO	133.4

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:01 Eastern Standard Time

ID: WG1177819-6,537IMED
Name: I12157
Date: 10-Nov-2018
Time: 08:14:42
Description: WG1177819,WG1175174,ICAL15200,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	11762		8.113		na	81.1
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	13043		11.024		na	110.2
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	122098		10.412	7.83	NO	104.1
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	118021		10.484		na	104.8
44	PFDS	335-77-3	11.20	598.926 > 80.314	13183		12.685	1.17	NO	131.5
45	FOSA	754-91-6	11.10	497.989 > 78.245	51474		10.217		na	102.2
46	M8FOSA	INT STD	11.10	506.053 > 78.286	51506		10.735		na	107.3
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	10789		7.715		na	77.1
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	10534		9.549	2.87	YES	95.5
49	PFDoA	307-55-1	11.66	612.989 > 568.967	129302		11.493	13.58	NO	114.9
50	MPFDOA	INT STD	11.66	614.989 > 569.92	120649		9.539		na	95.4
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	113492		11.996	12.30	NO	120.0
52	PFTA	376-06-7	12.39	713.053 > 668.976	82543		11.314	9.35	NO	113.1
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	86891		9.275		na	92.8

all concentration units in (ng/mL)

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Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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Date: 10-Nov-2018
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User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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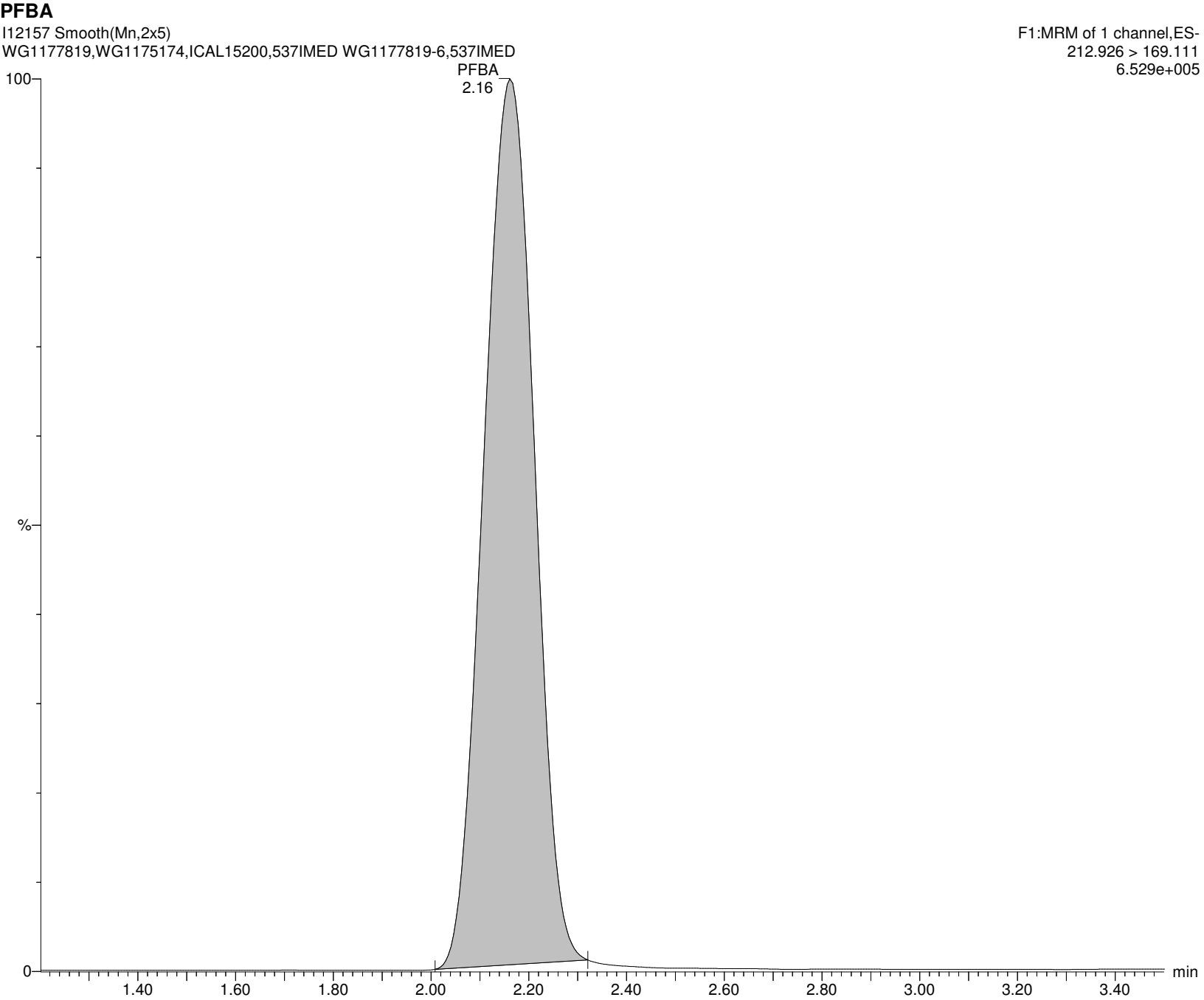

all concentration units in (ng/mL)

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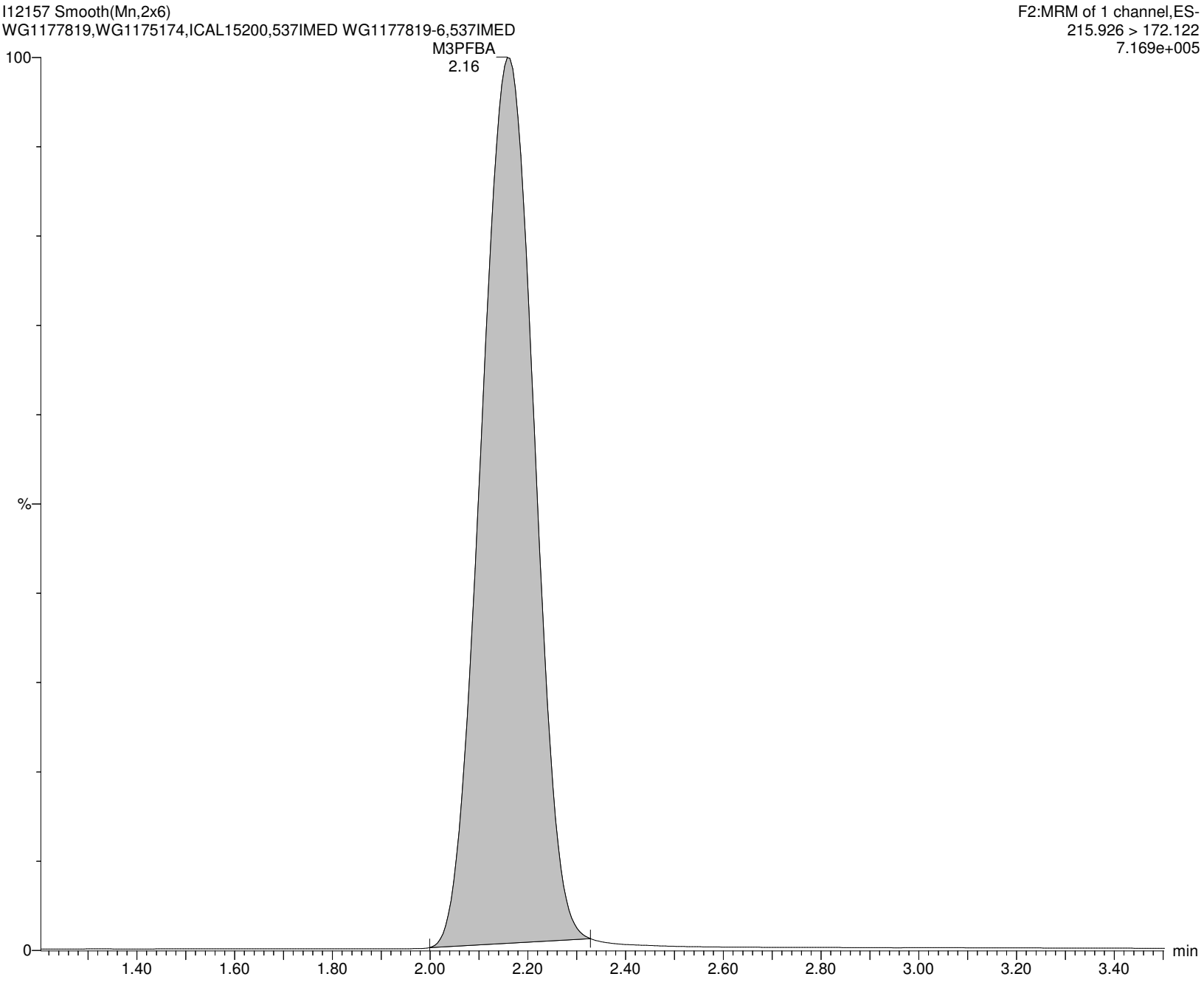

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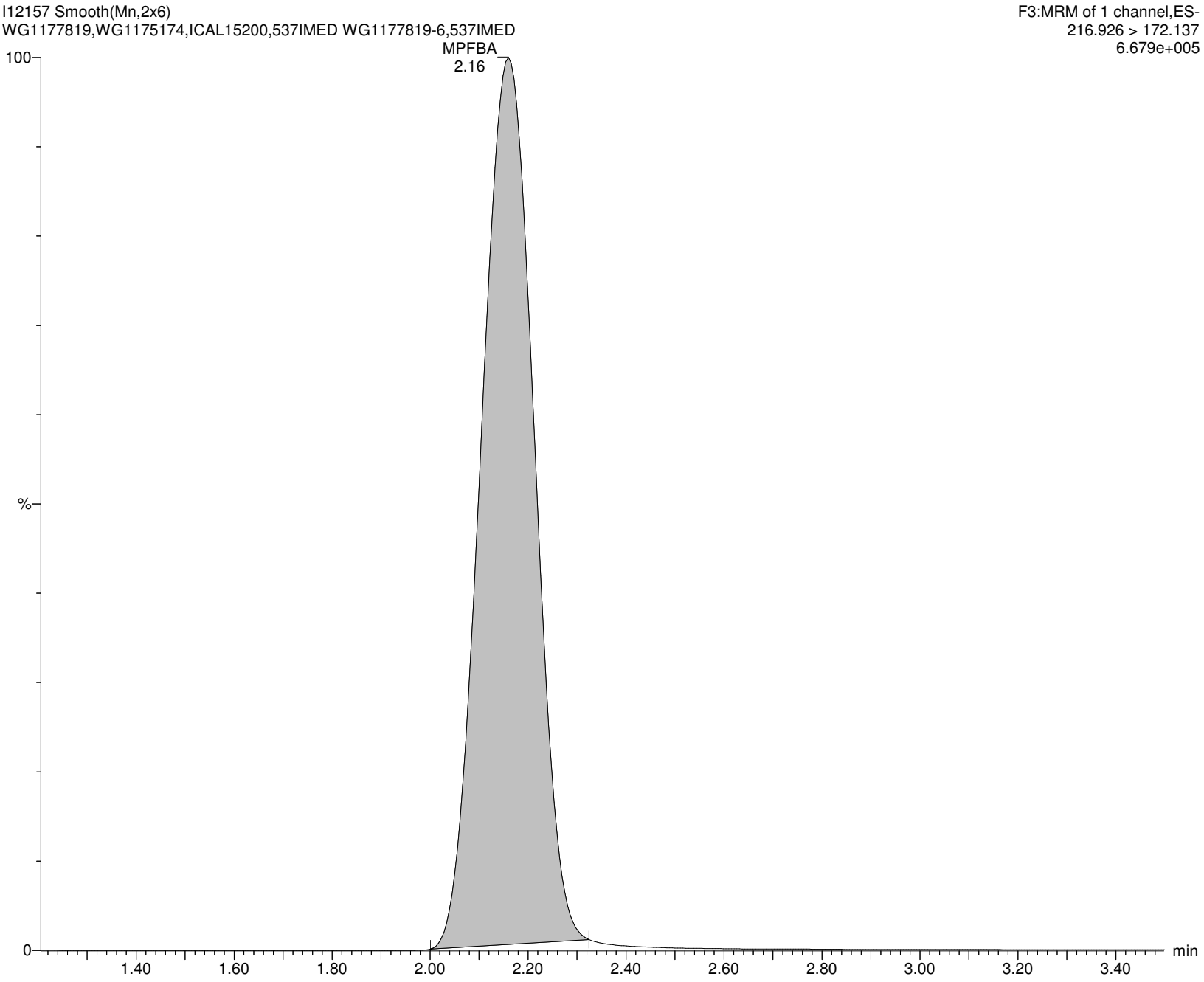

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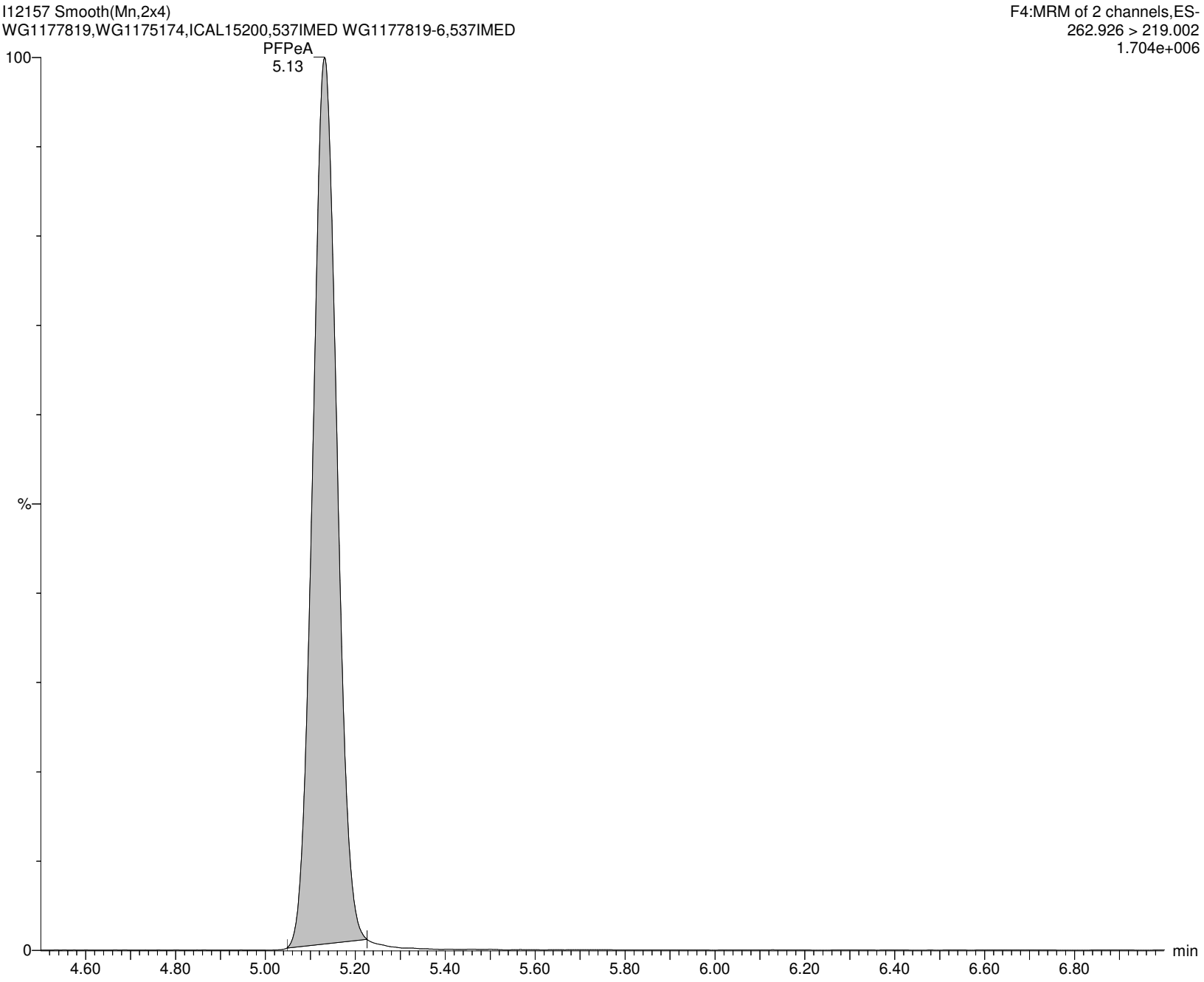

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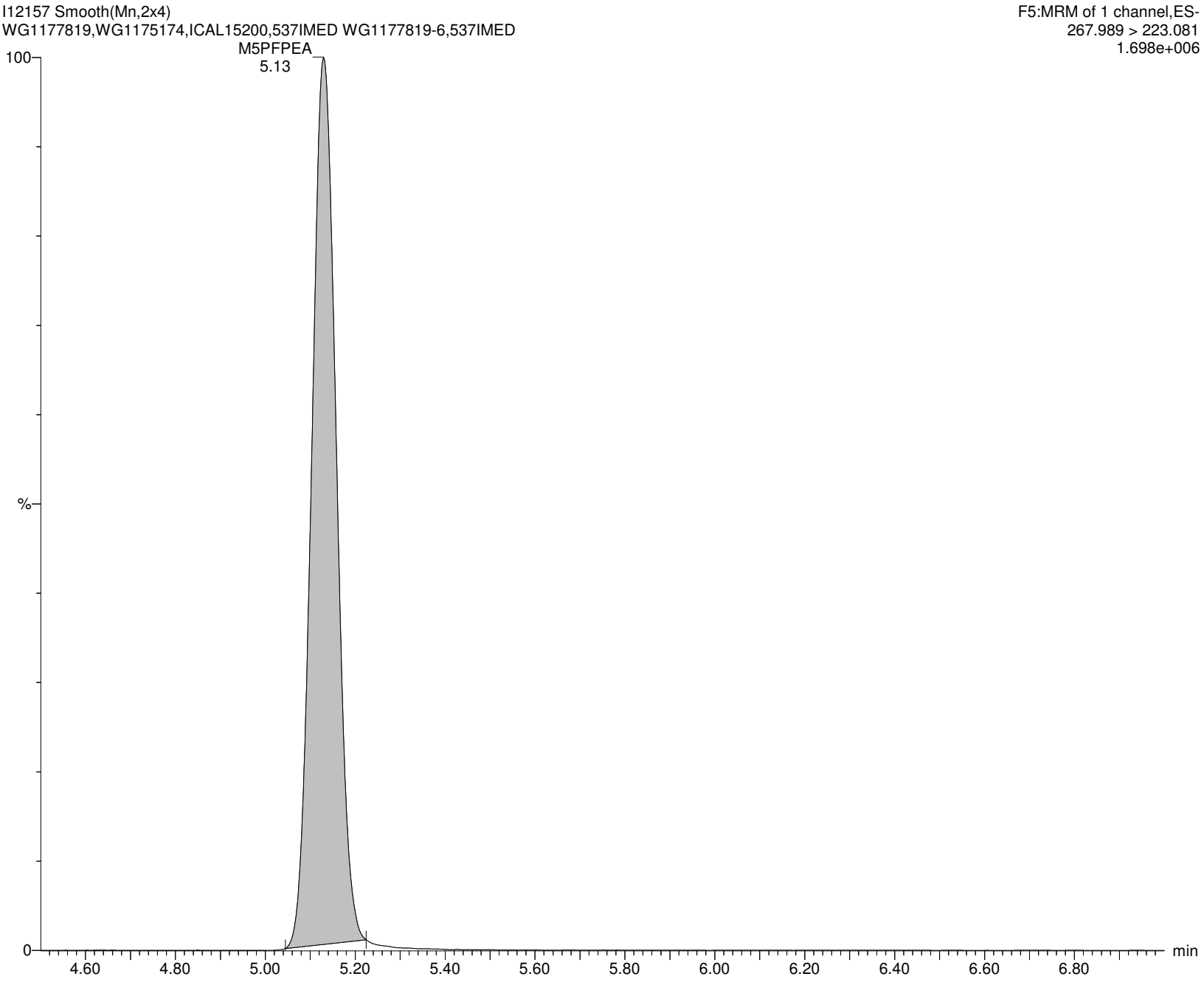

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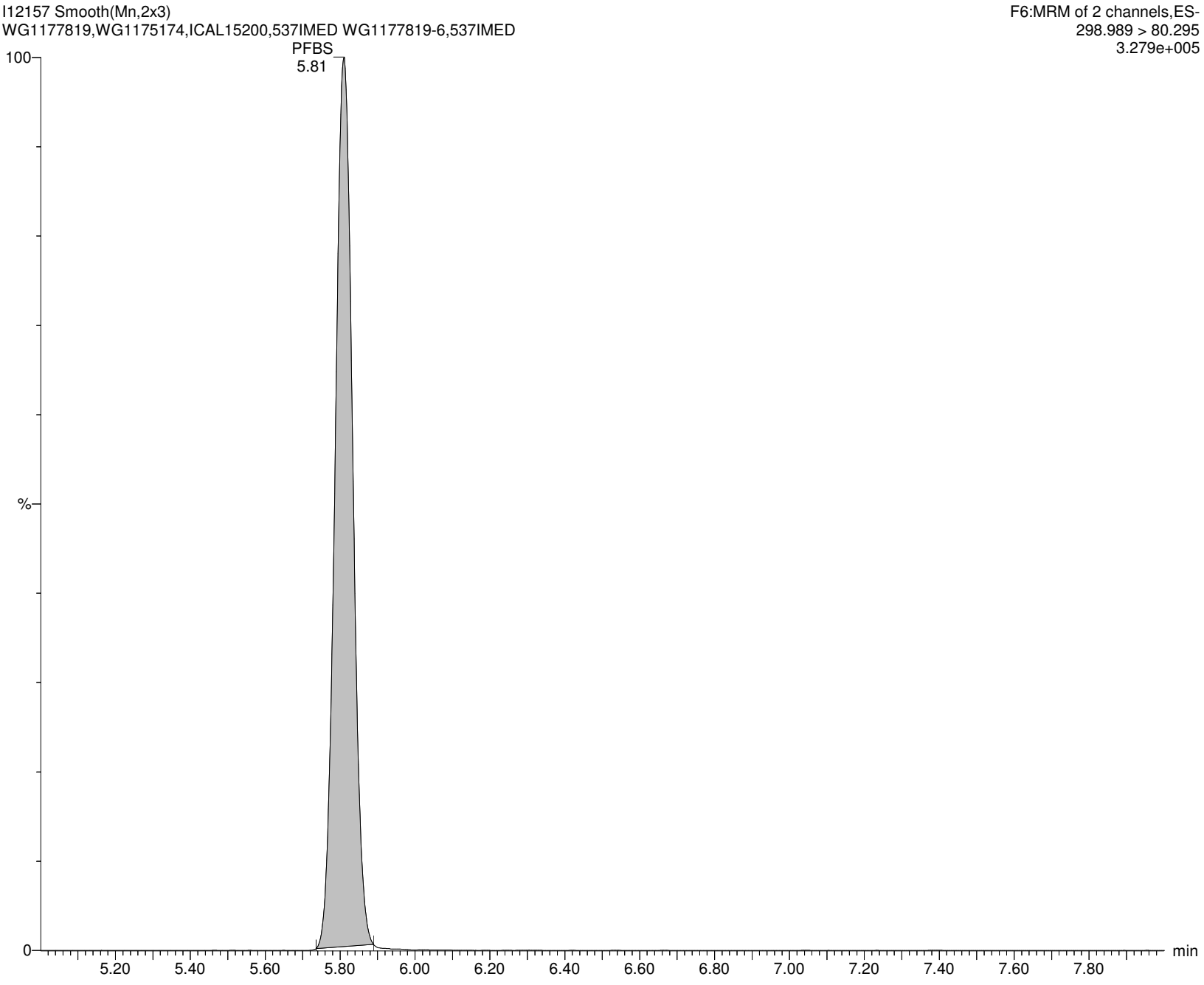

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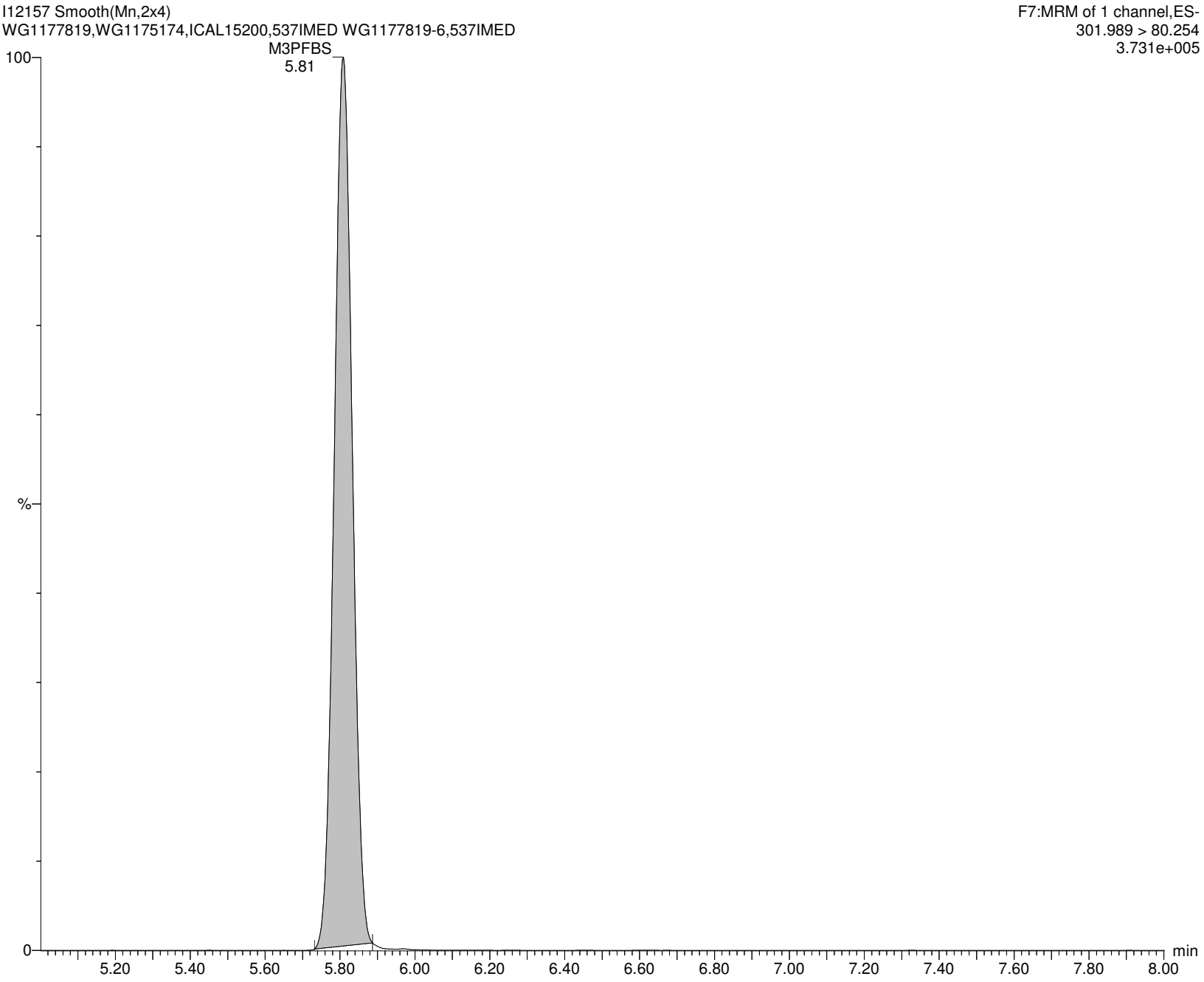
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M3PFBS



all concentration units in (ng/mL)

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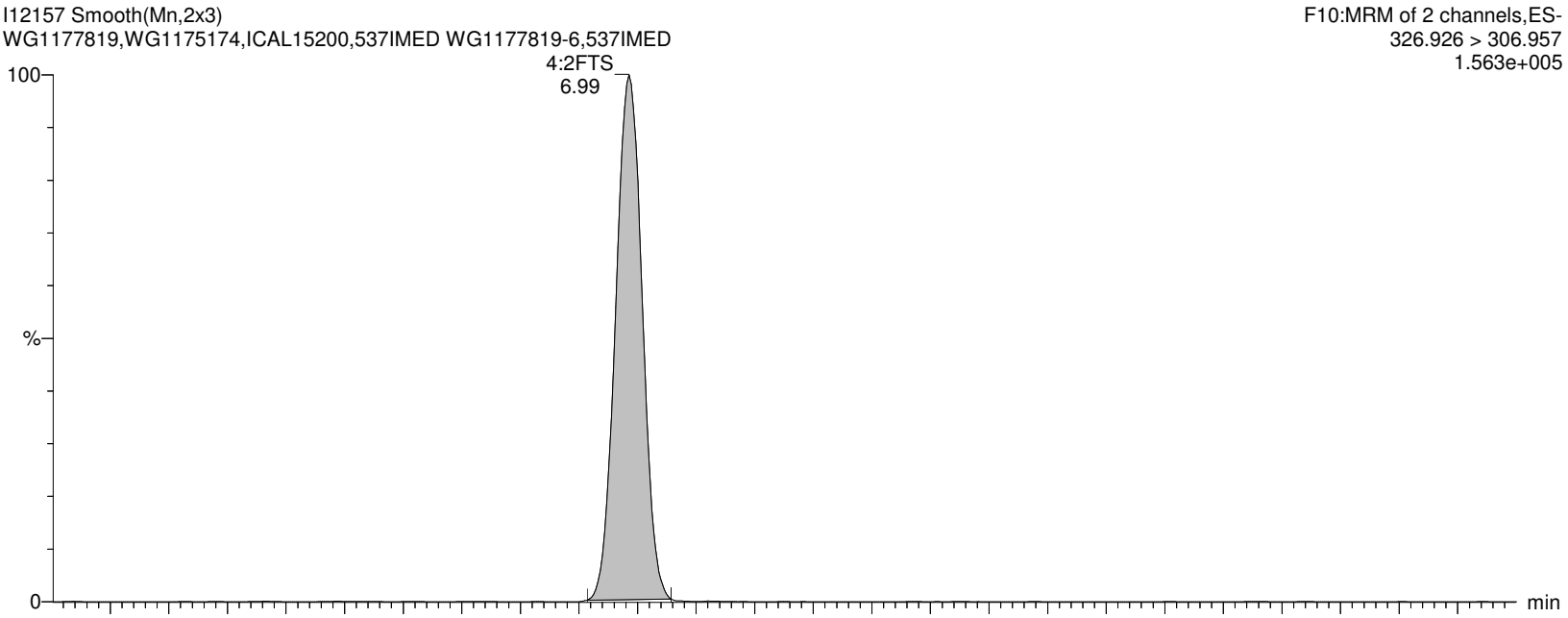
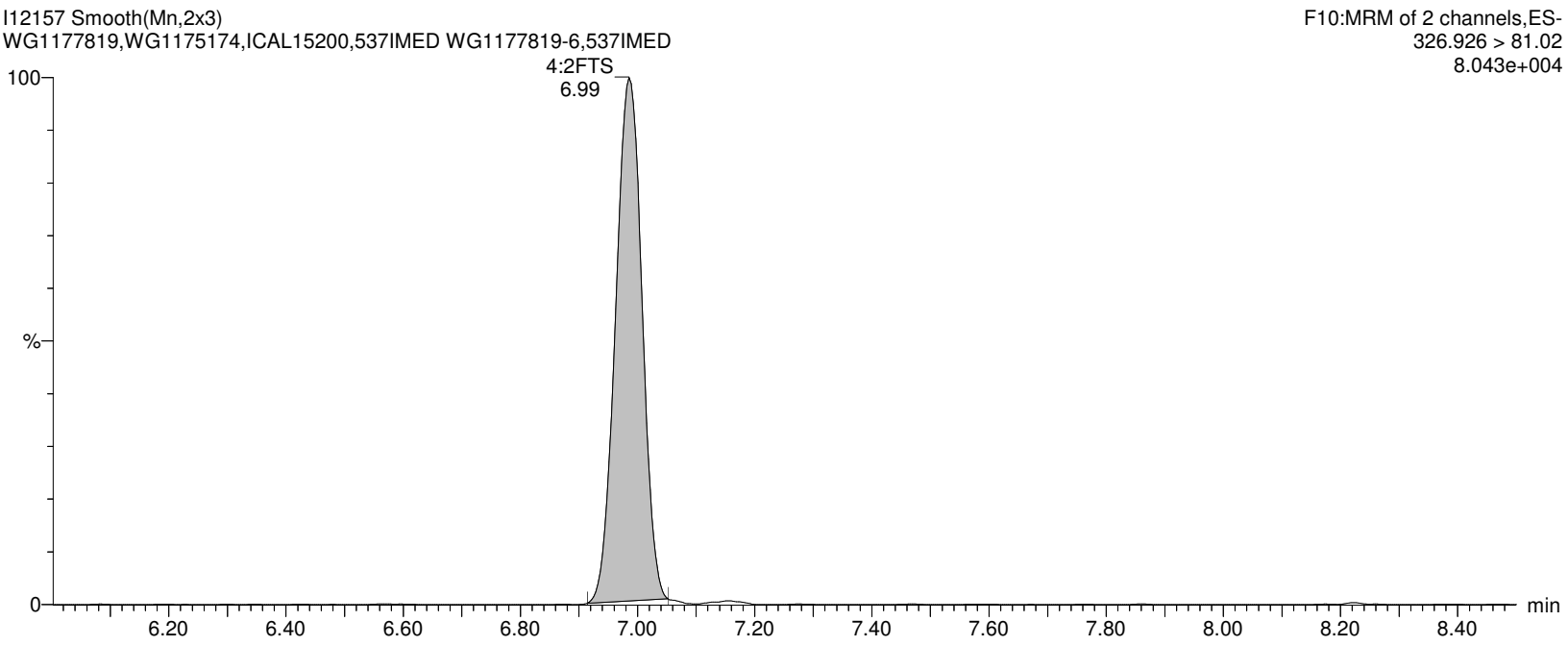
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

4:2FTS





all concentration units in (ng/mL)

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Date: 10-Nov-2018
Time: 08:14:42
Description: WG1177819,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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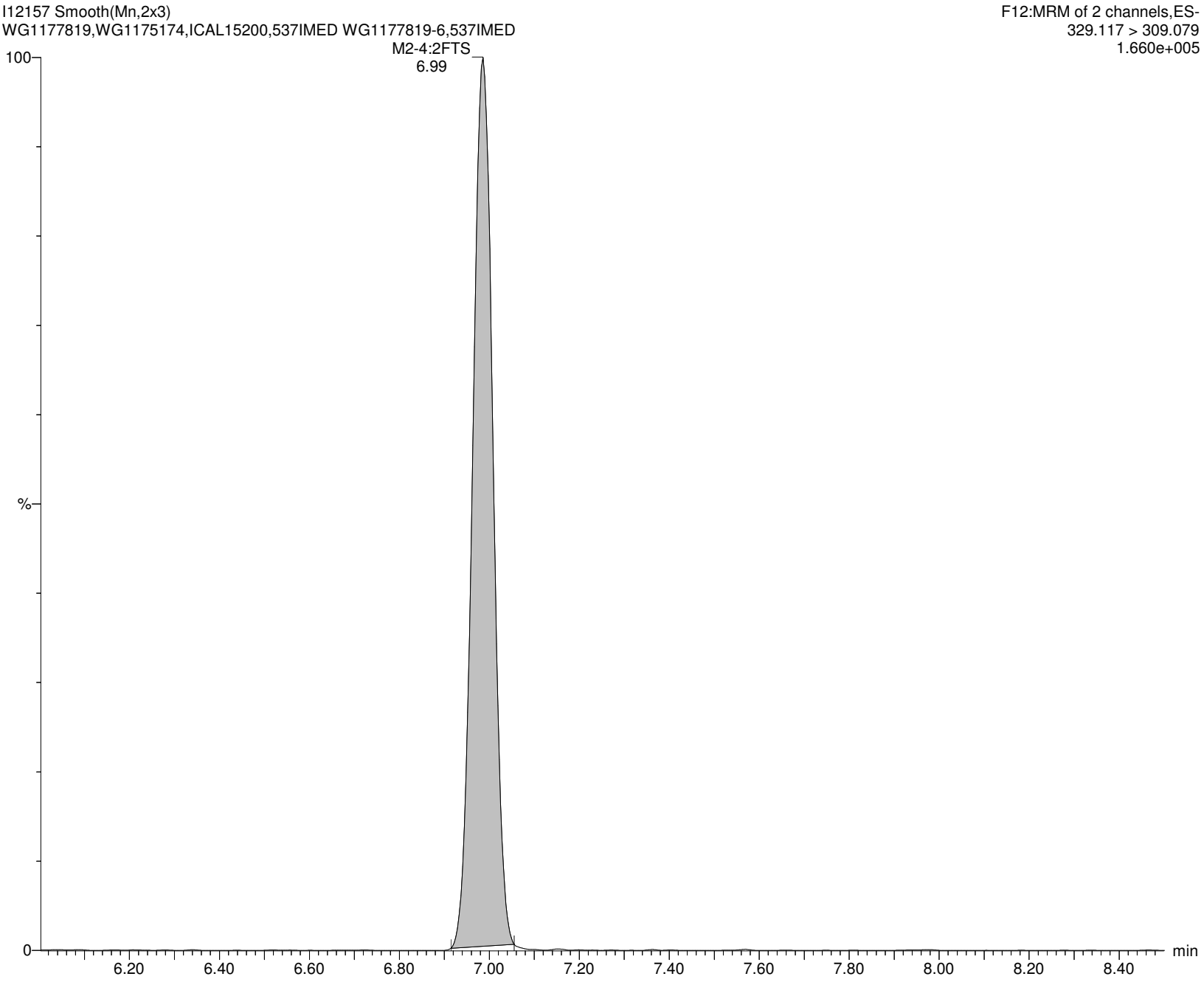

all concentration units in (ng/mL)

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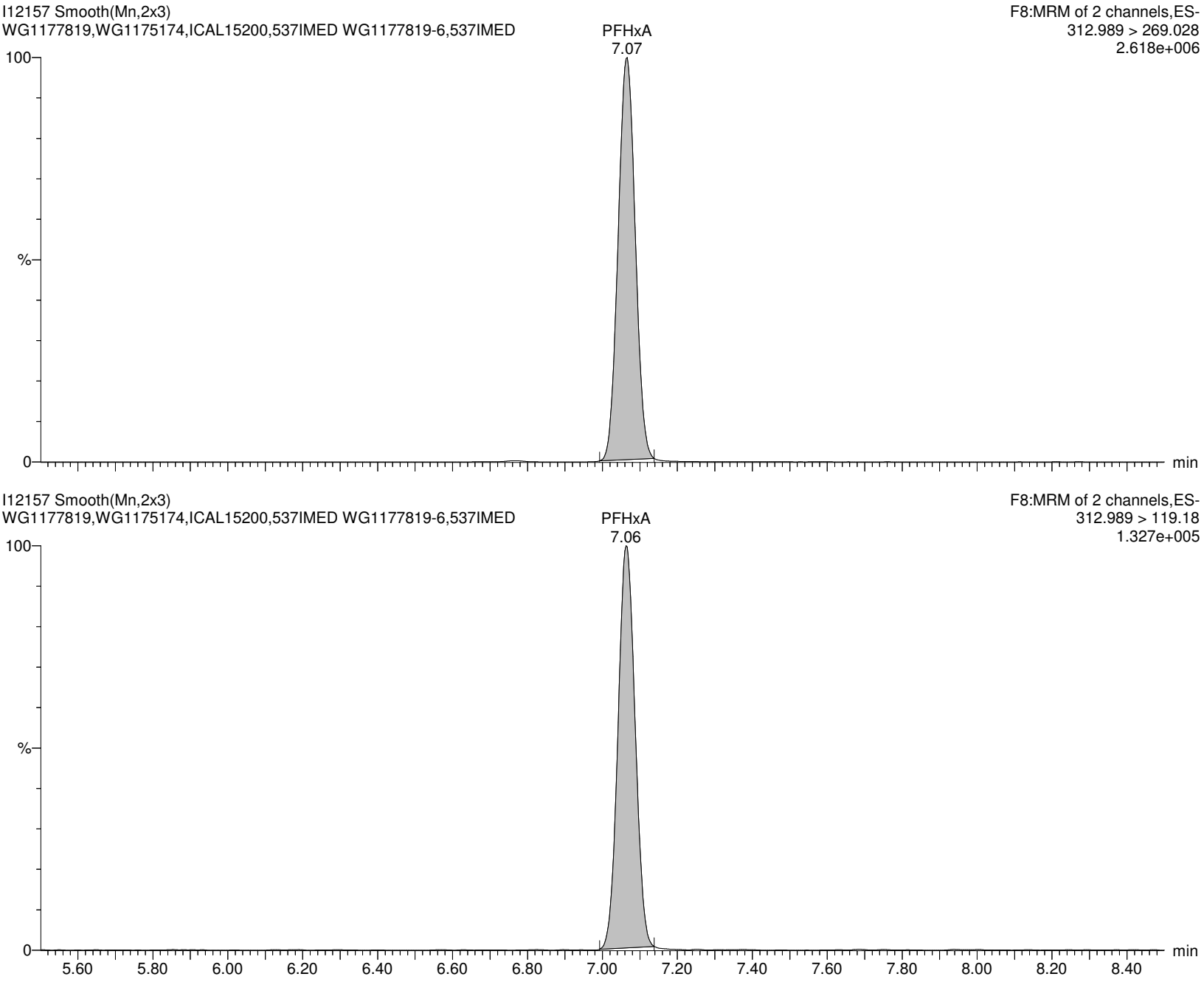

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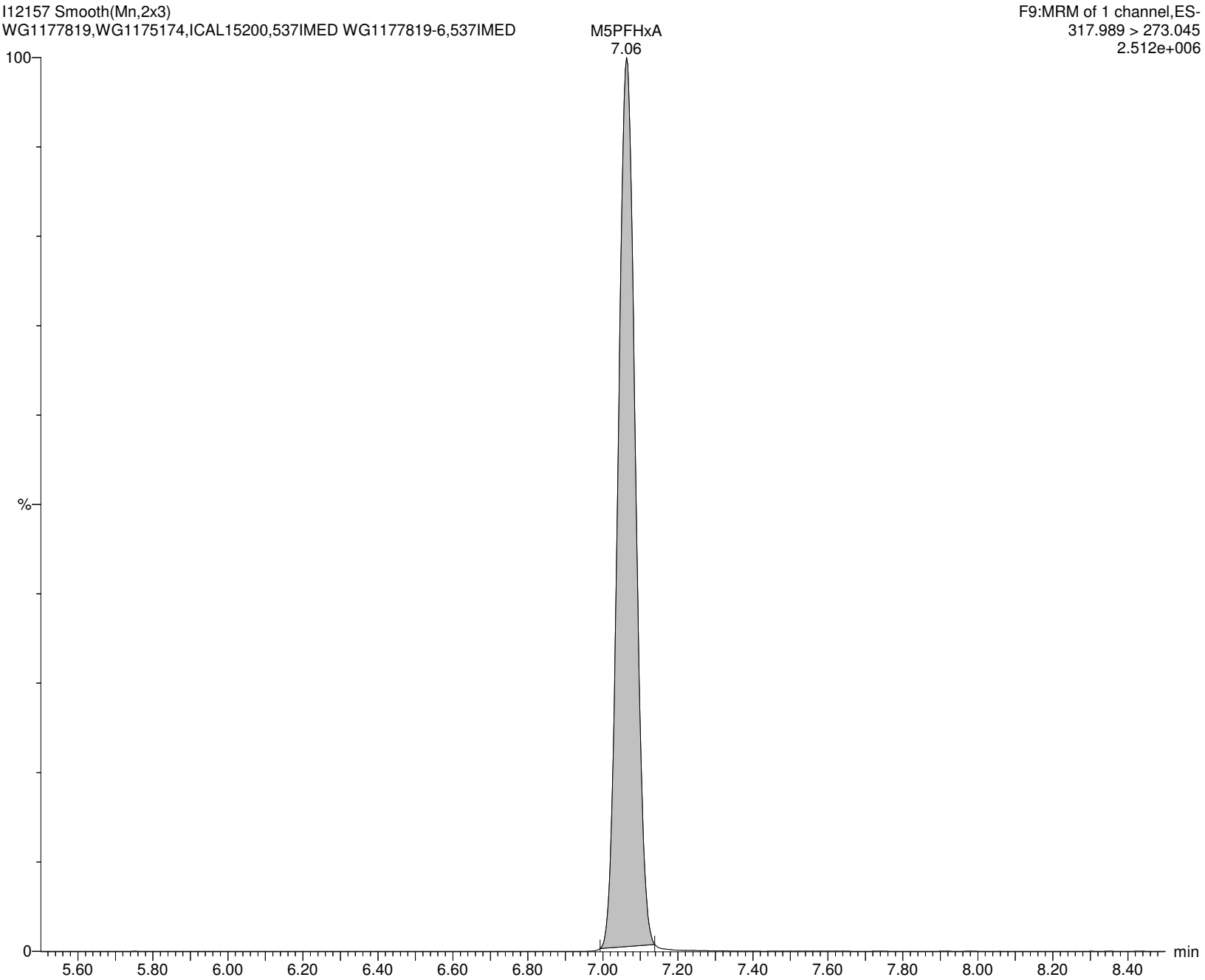

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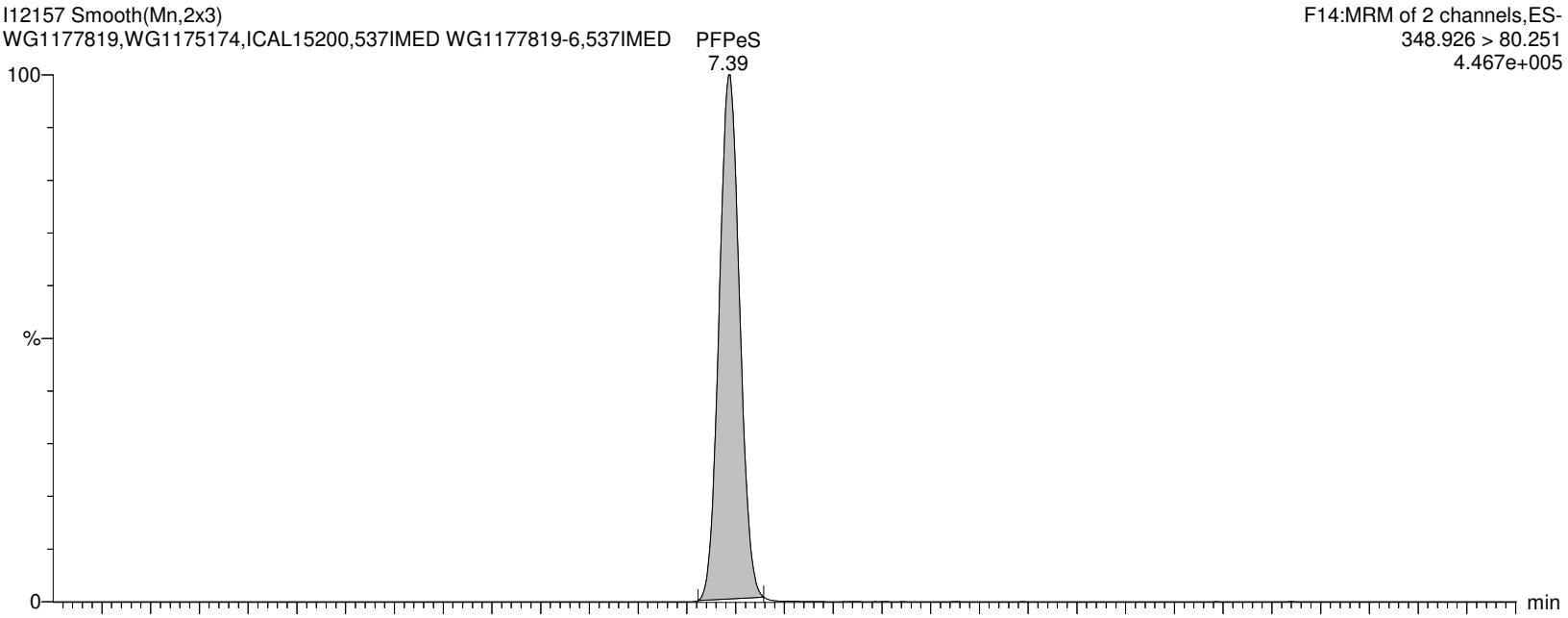

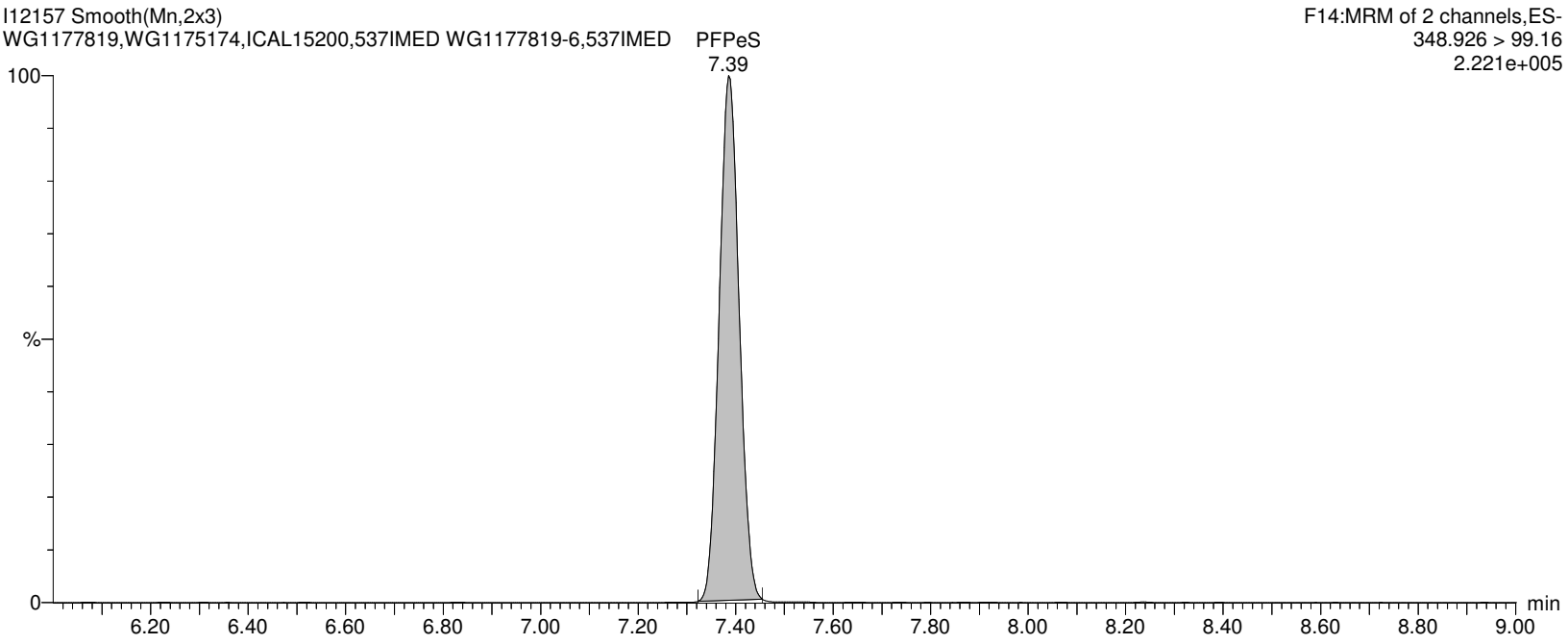

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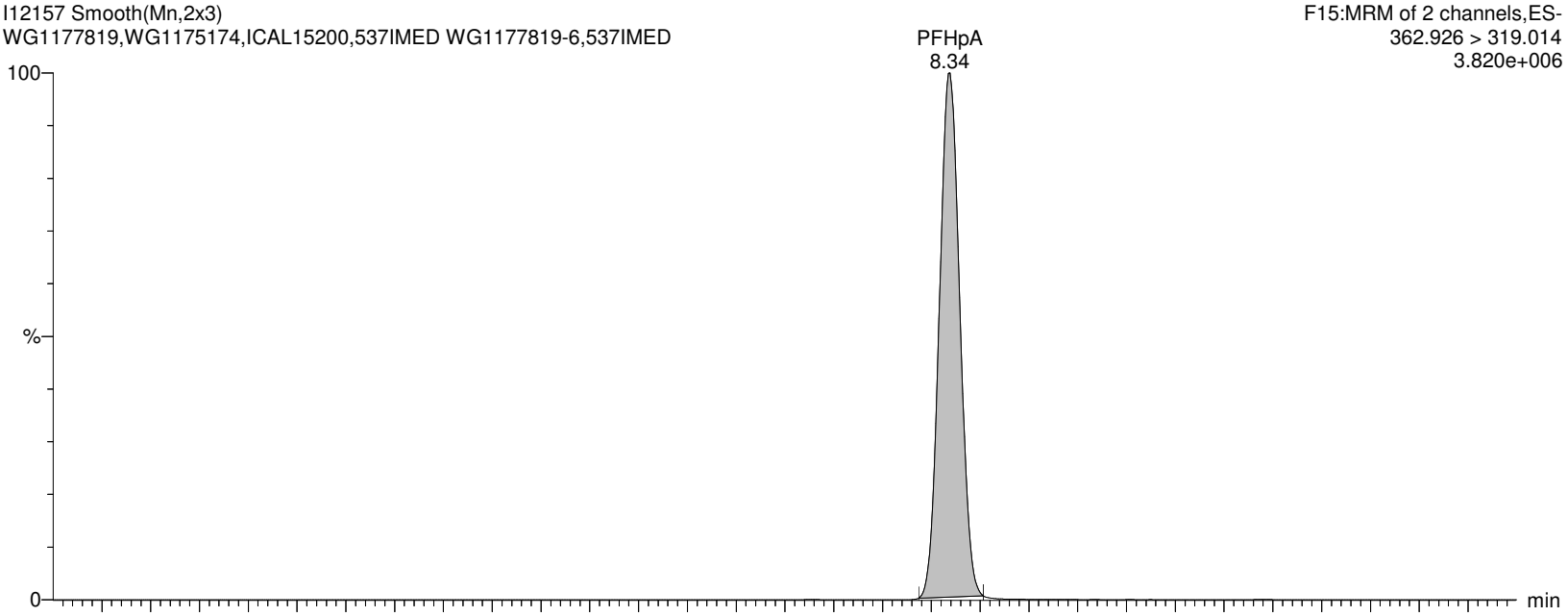

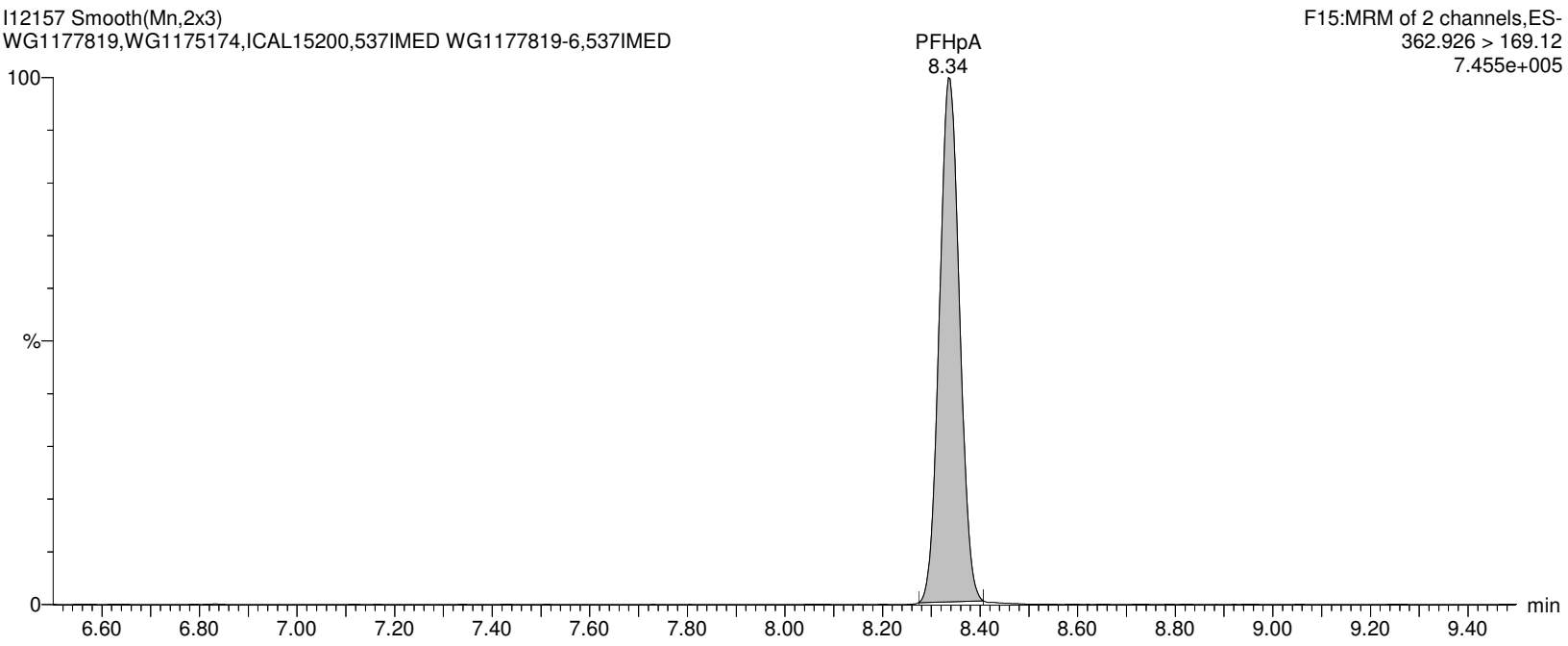

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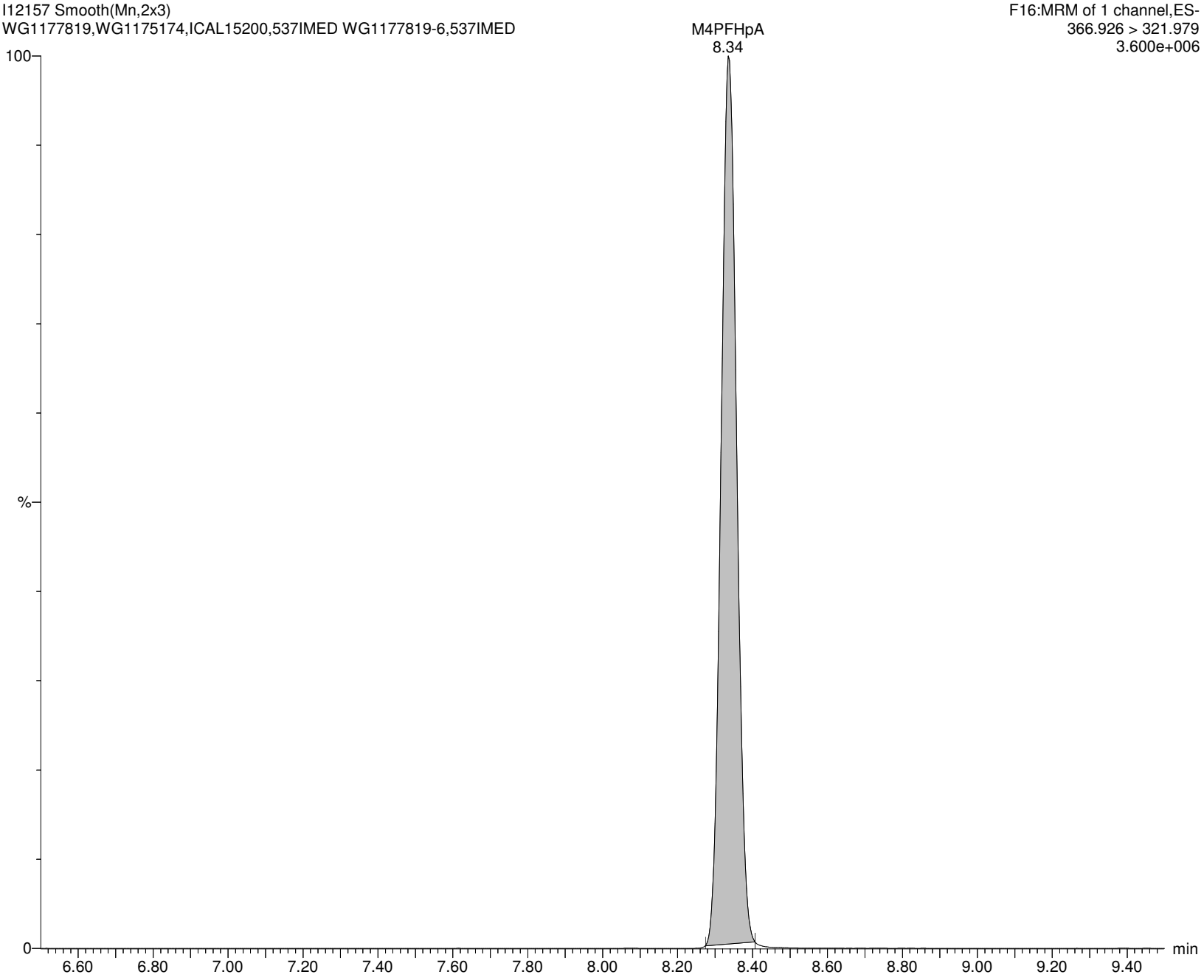

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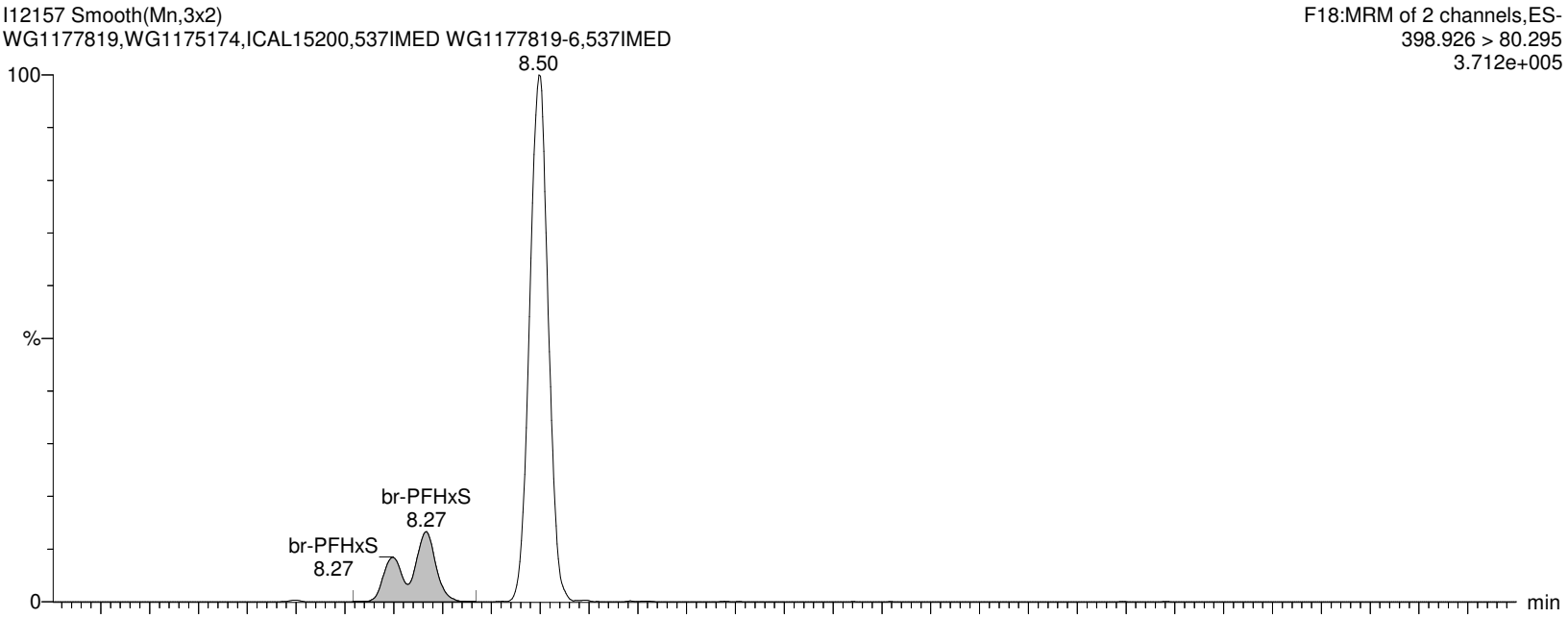

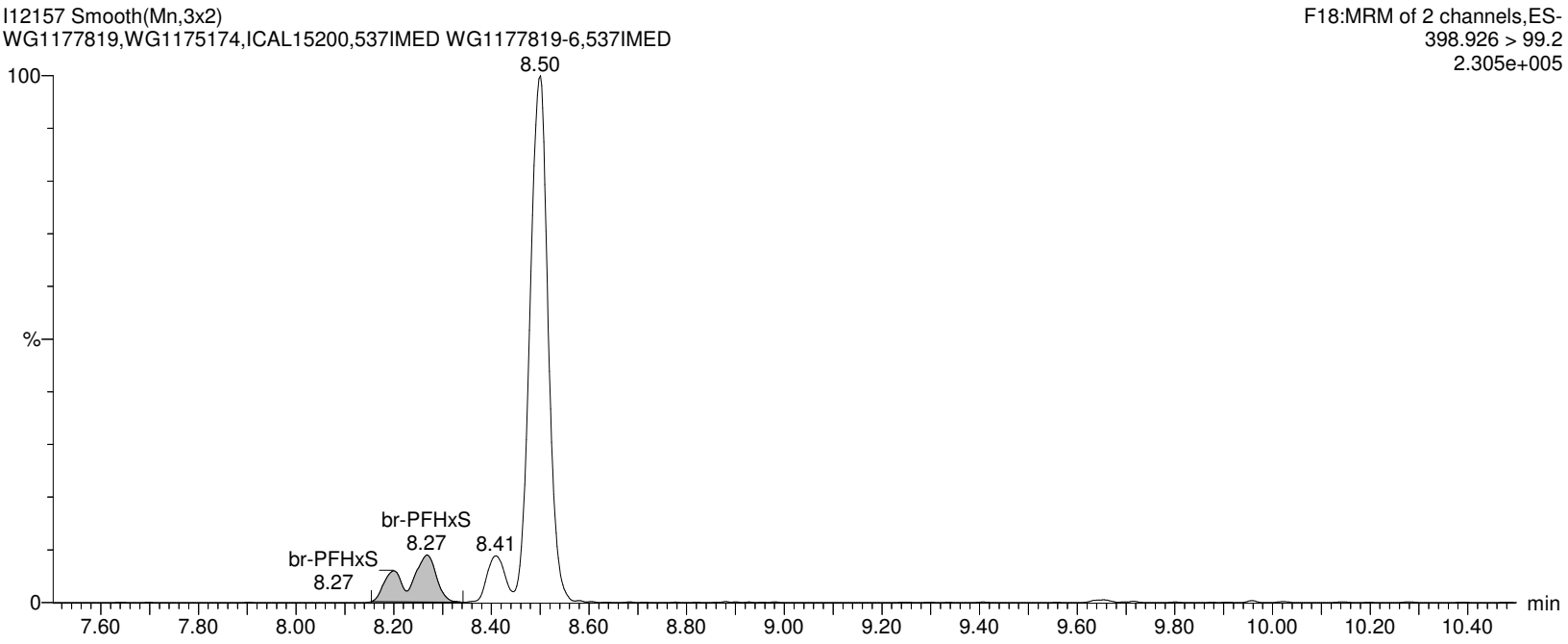

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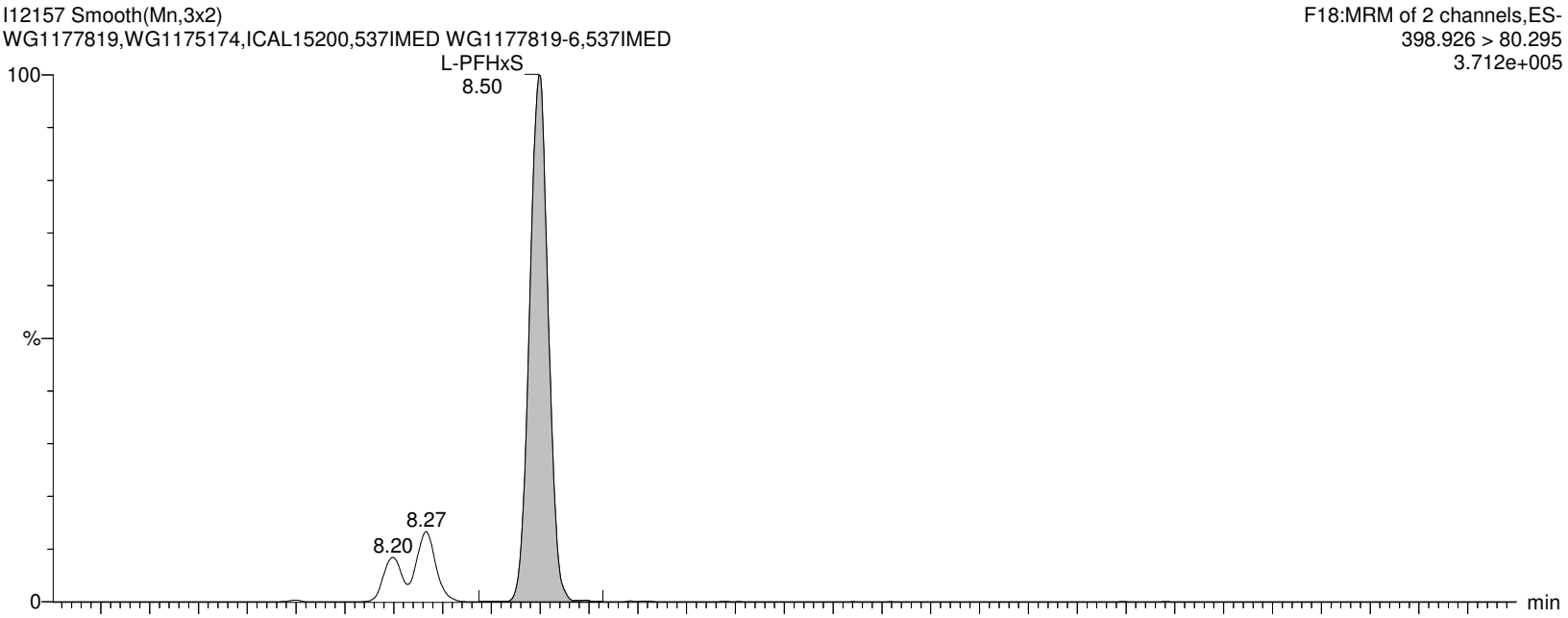

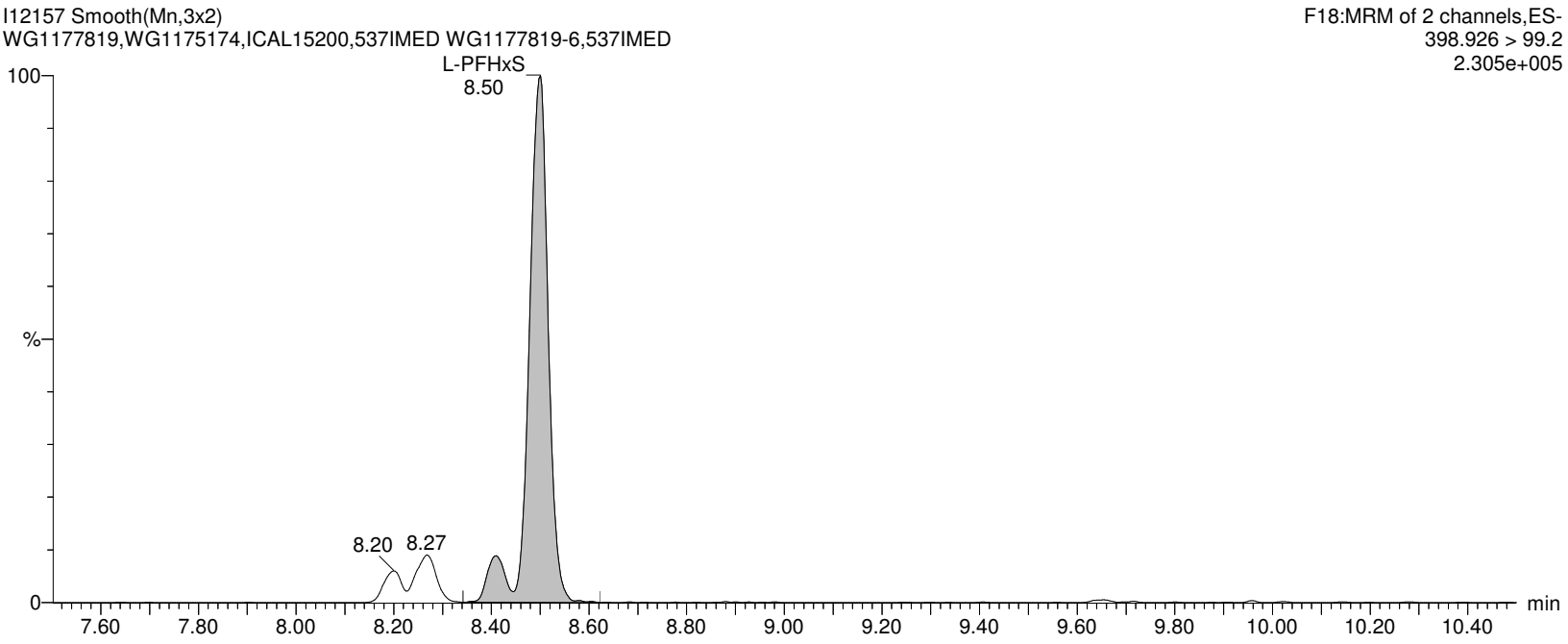

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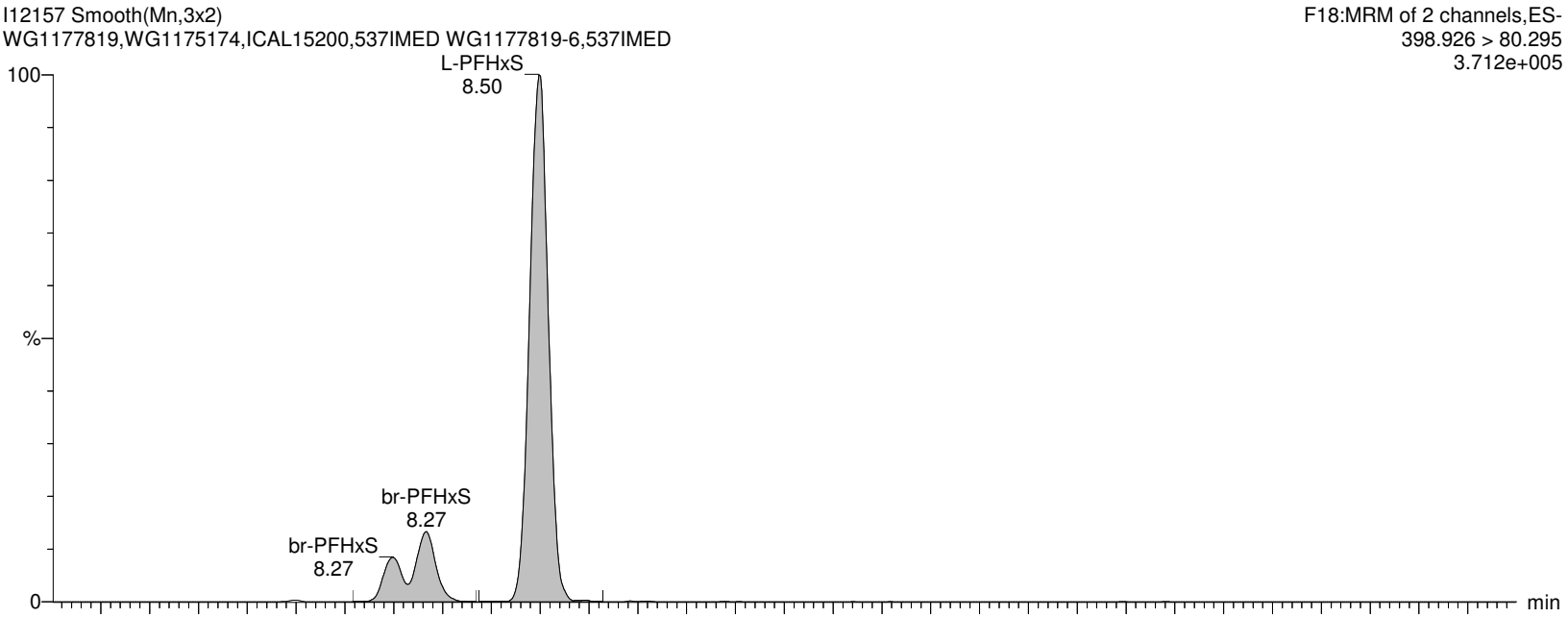

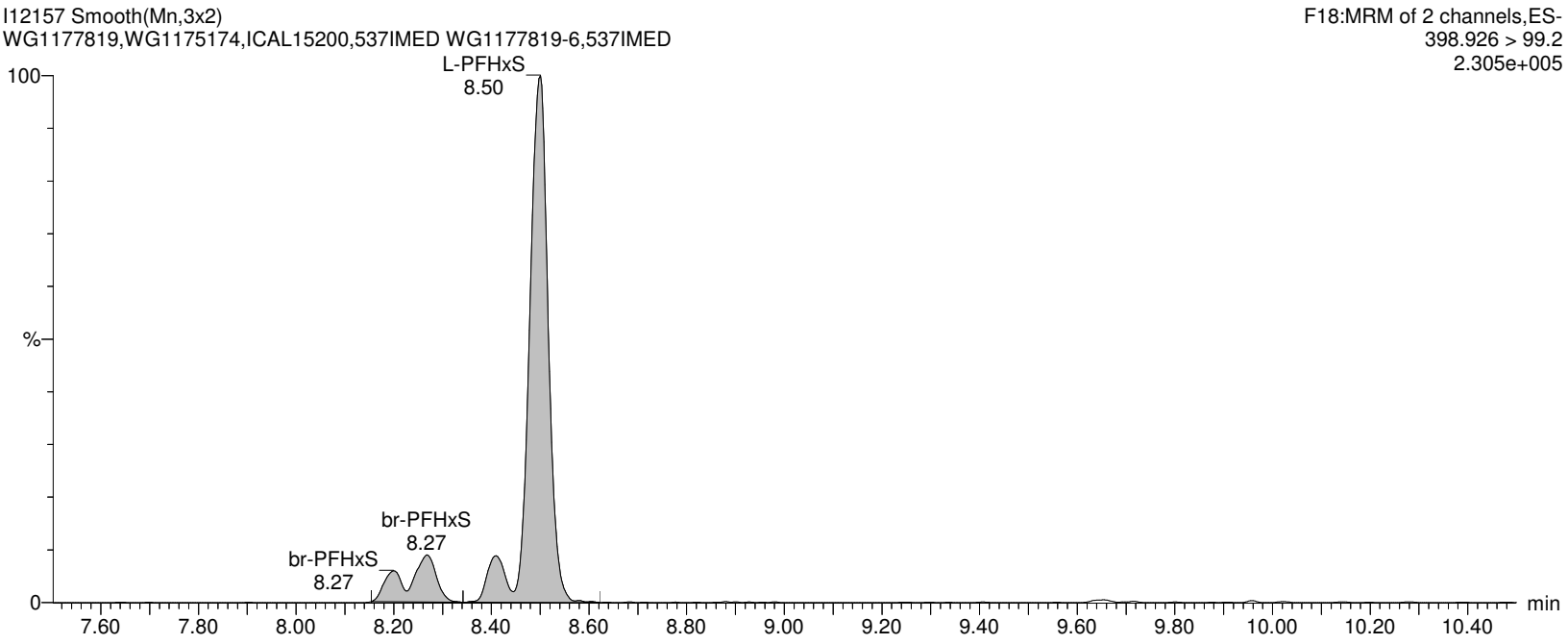

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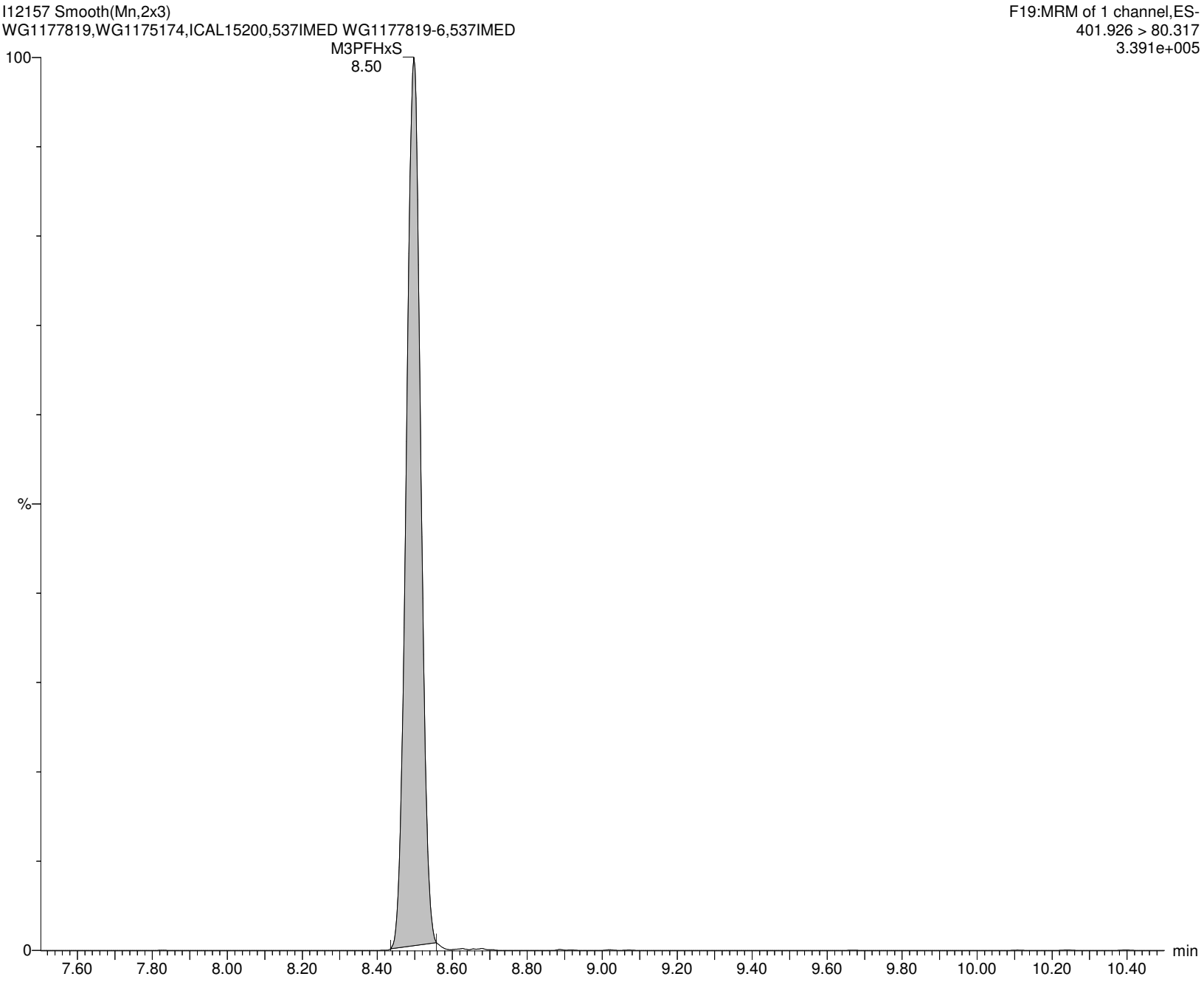

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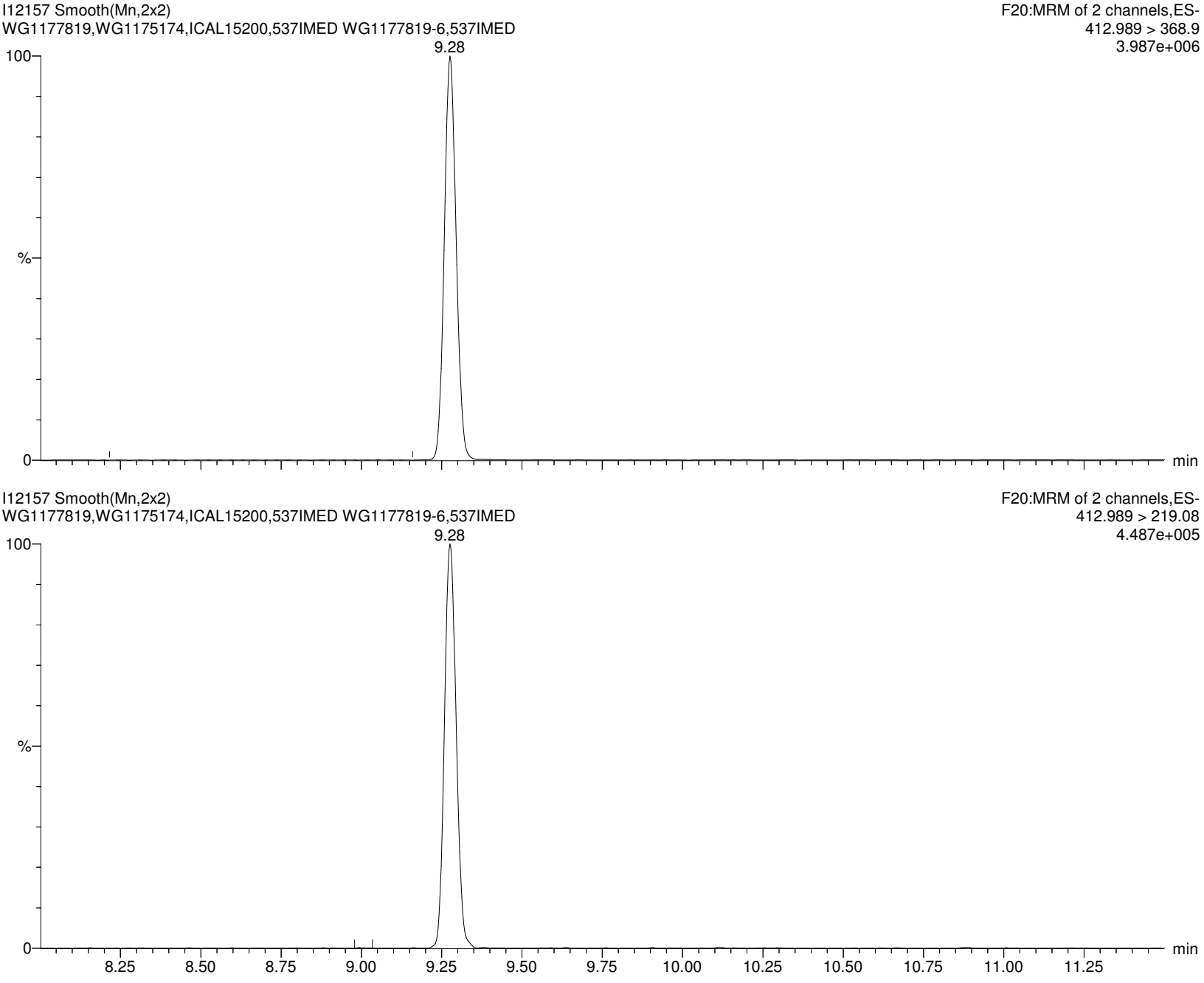

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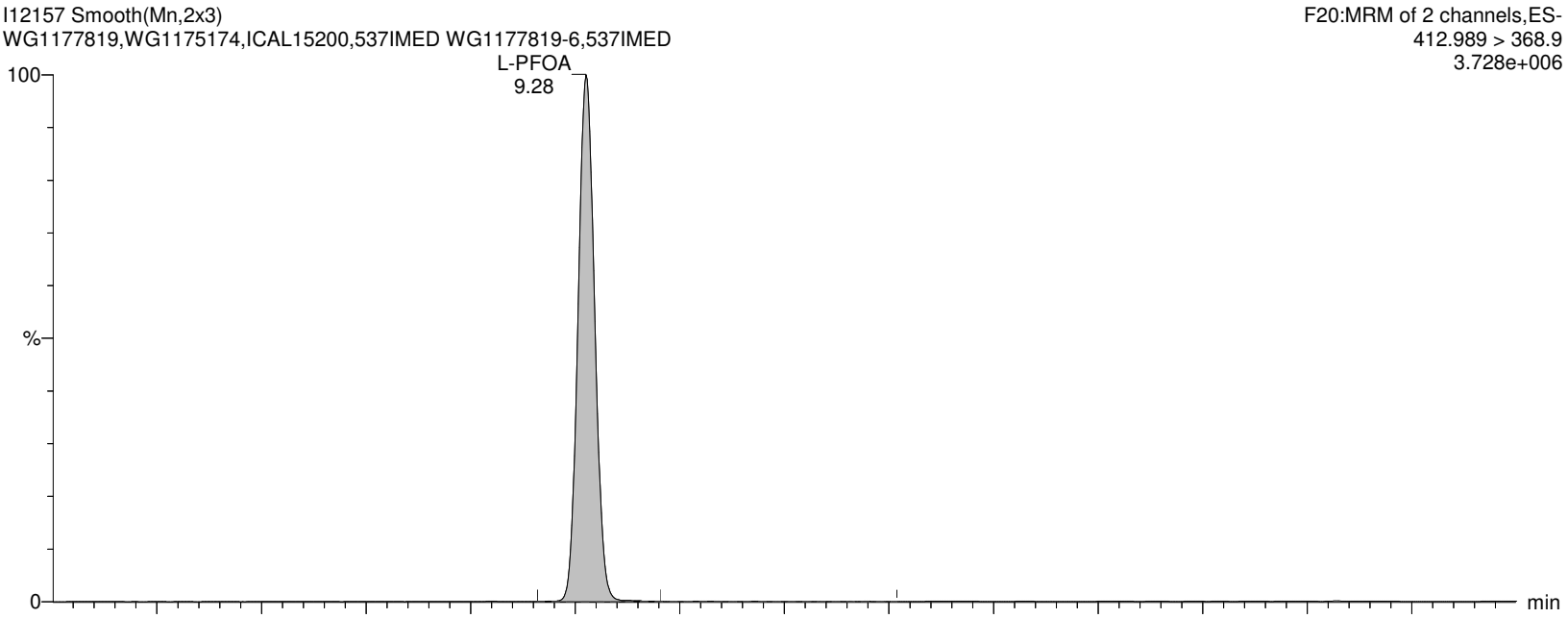

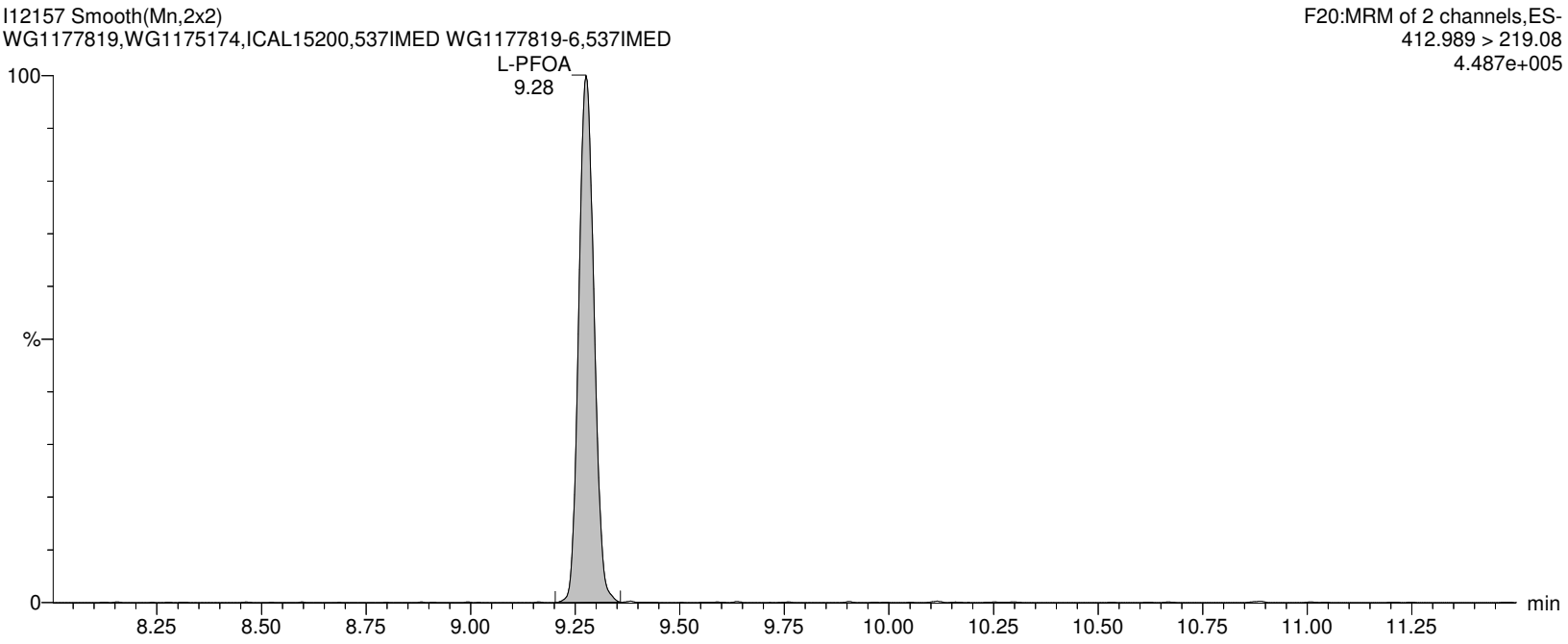

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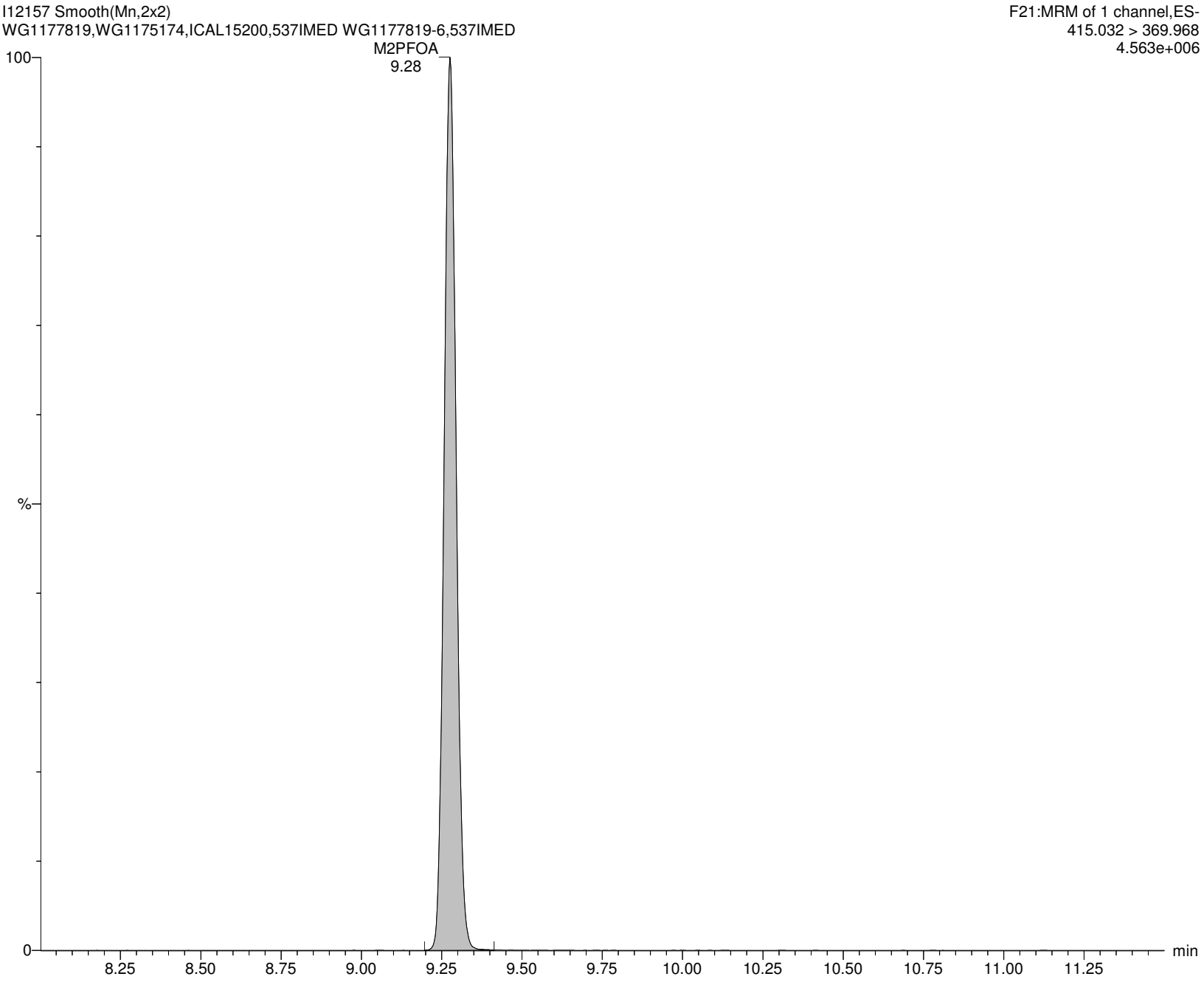

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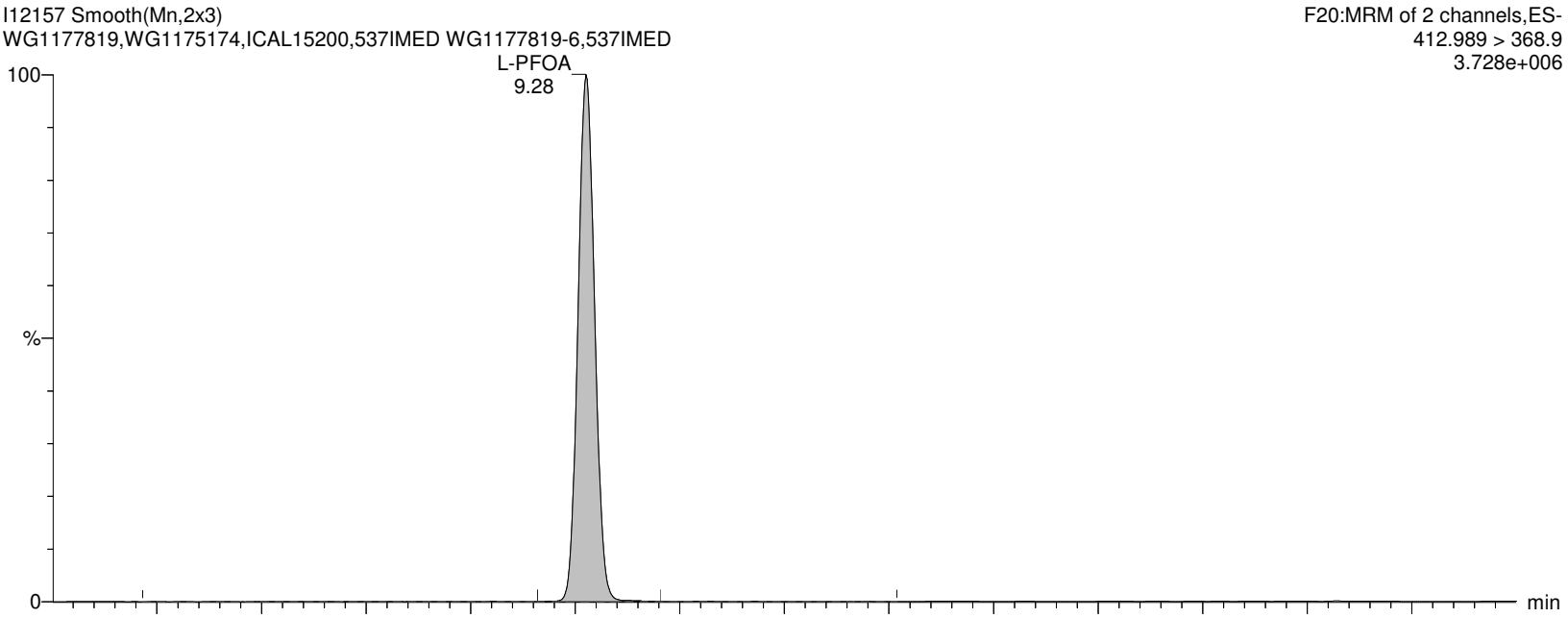

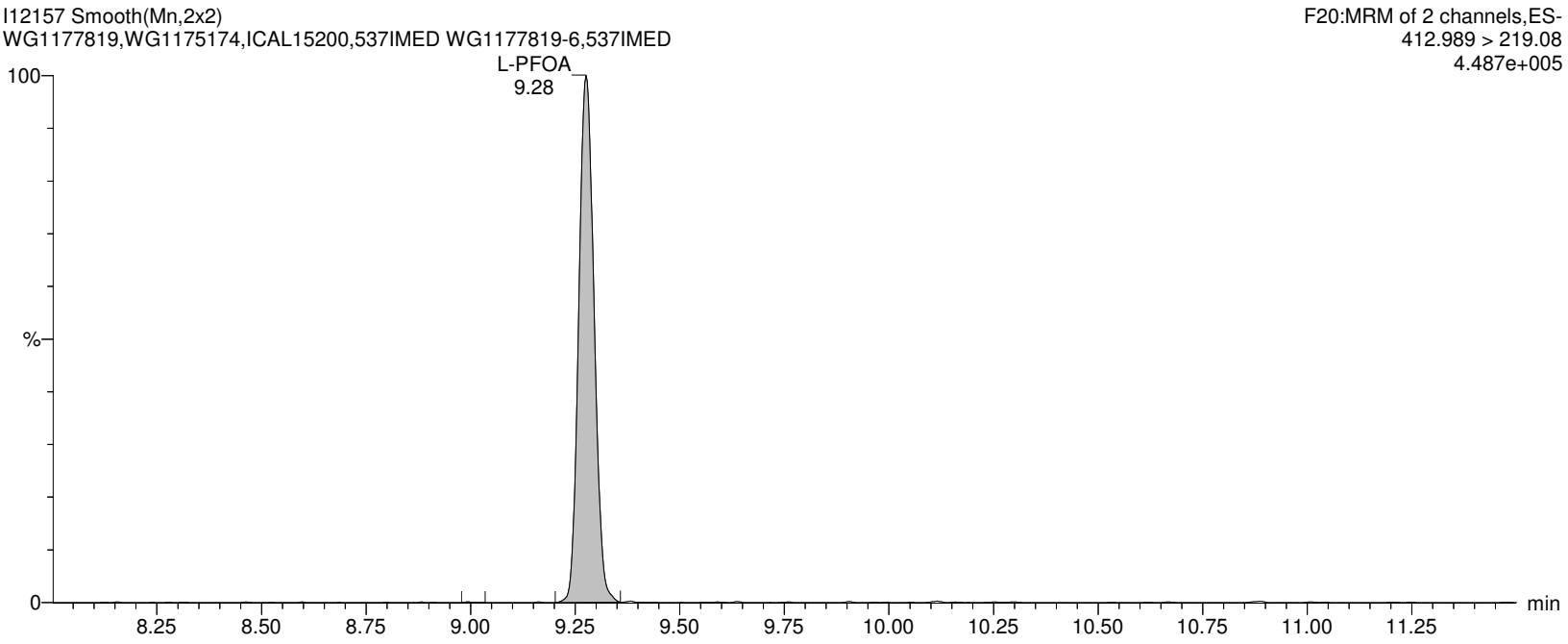

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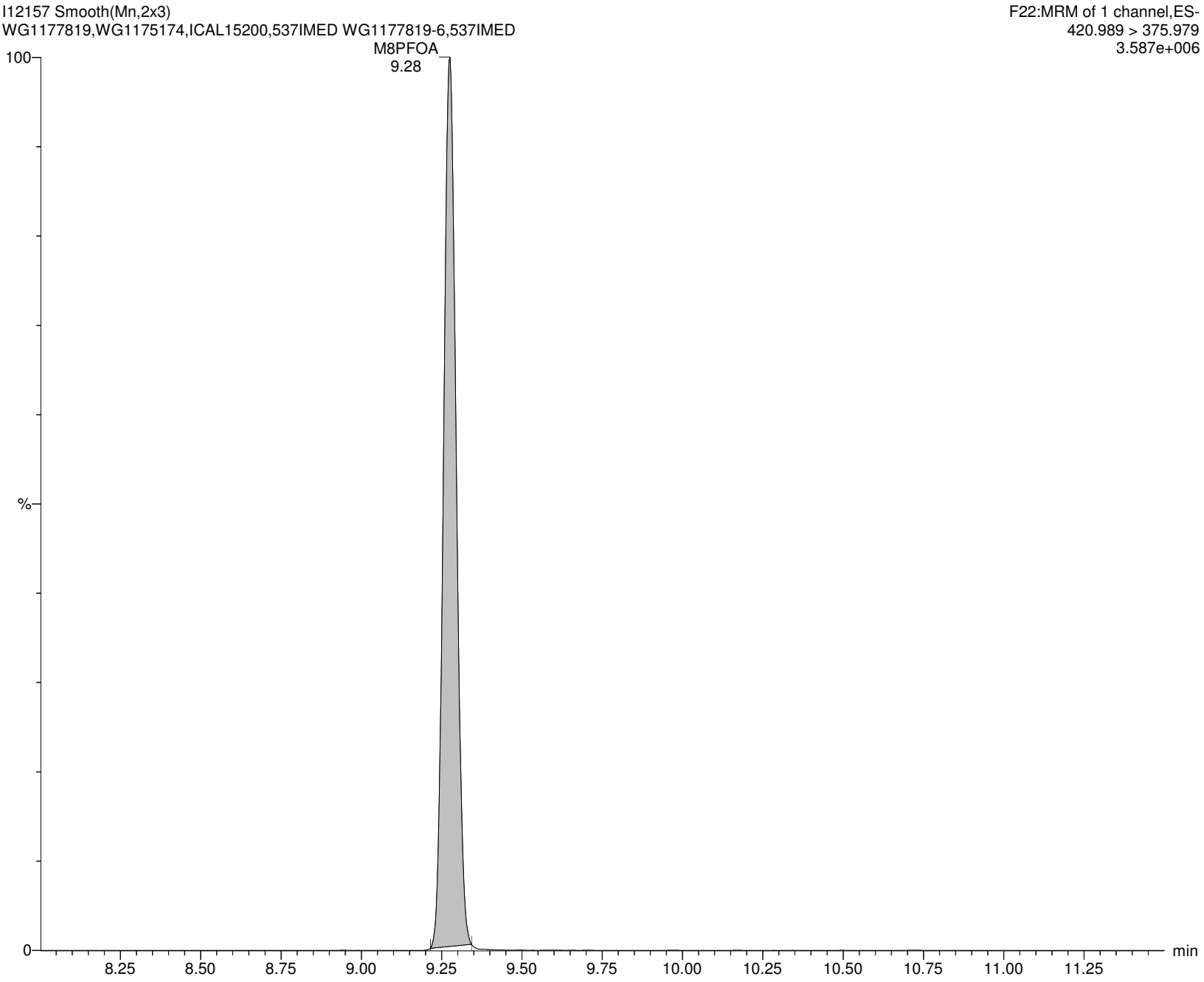

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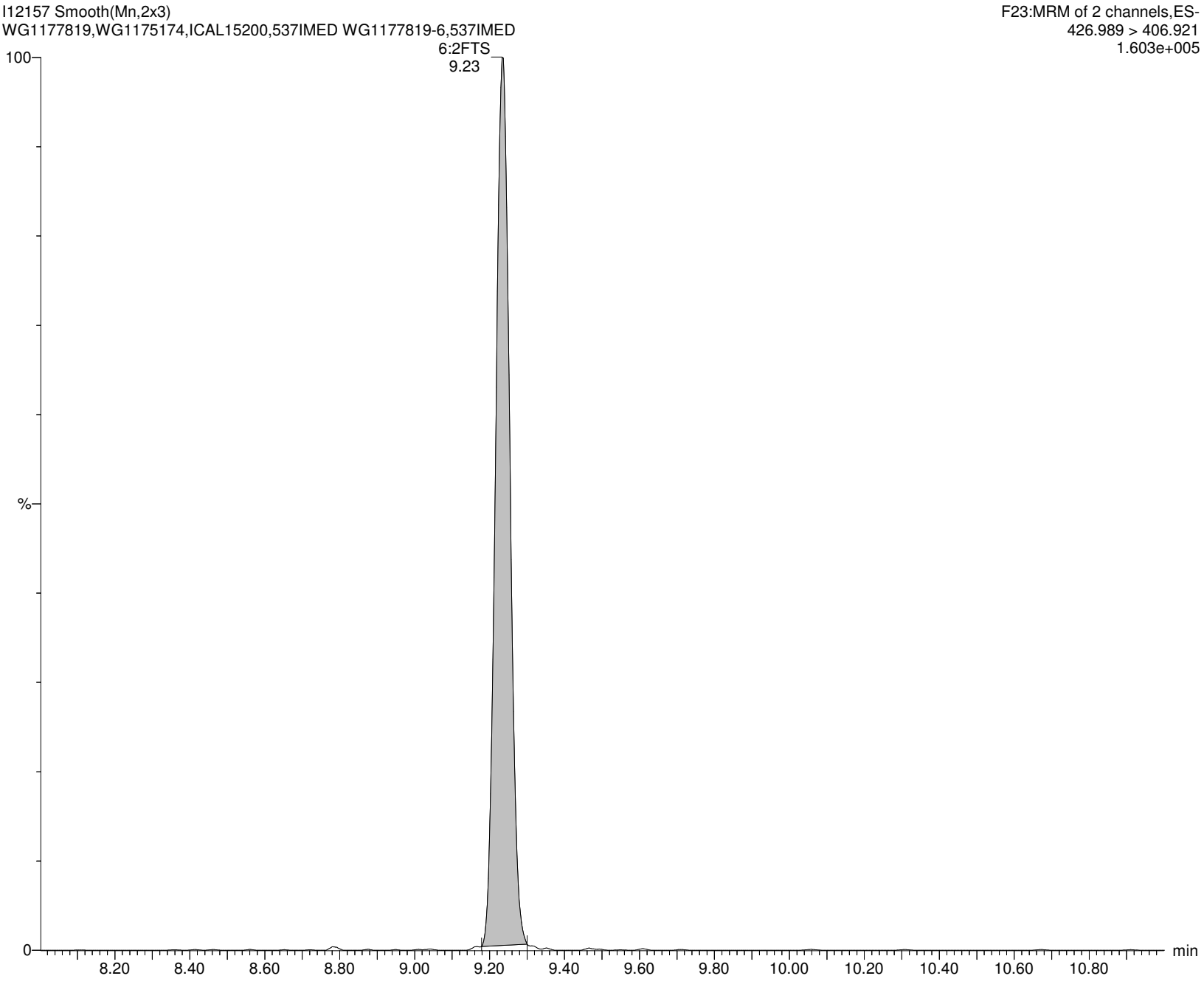

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Name: I12157
ID: WG1177819-6,537IMED
Date: 10-Nov-2018
Time: 08:14:42
Description: WG1177819,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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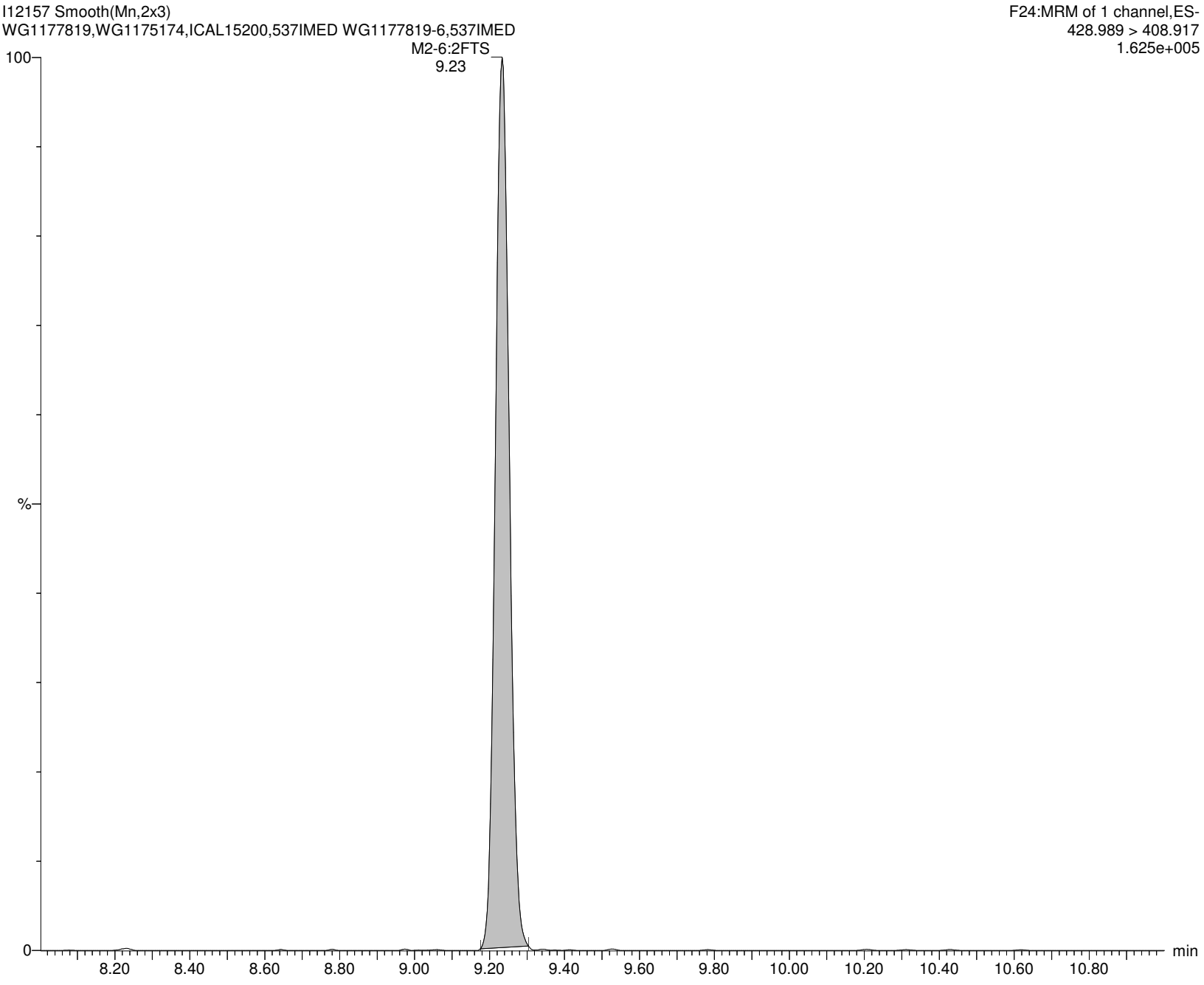

all concentration units in (ng/mL)

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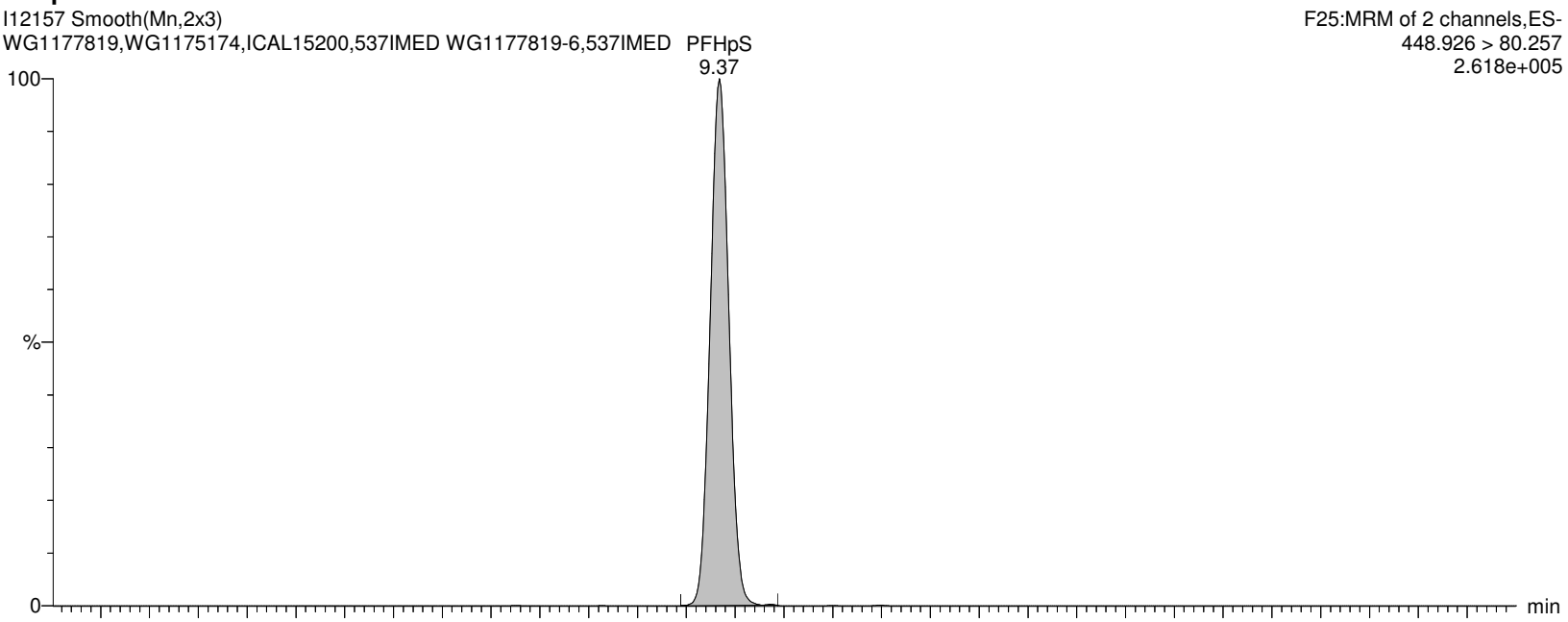

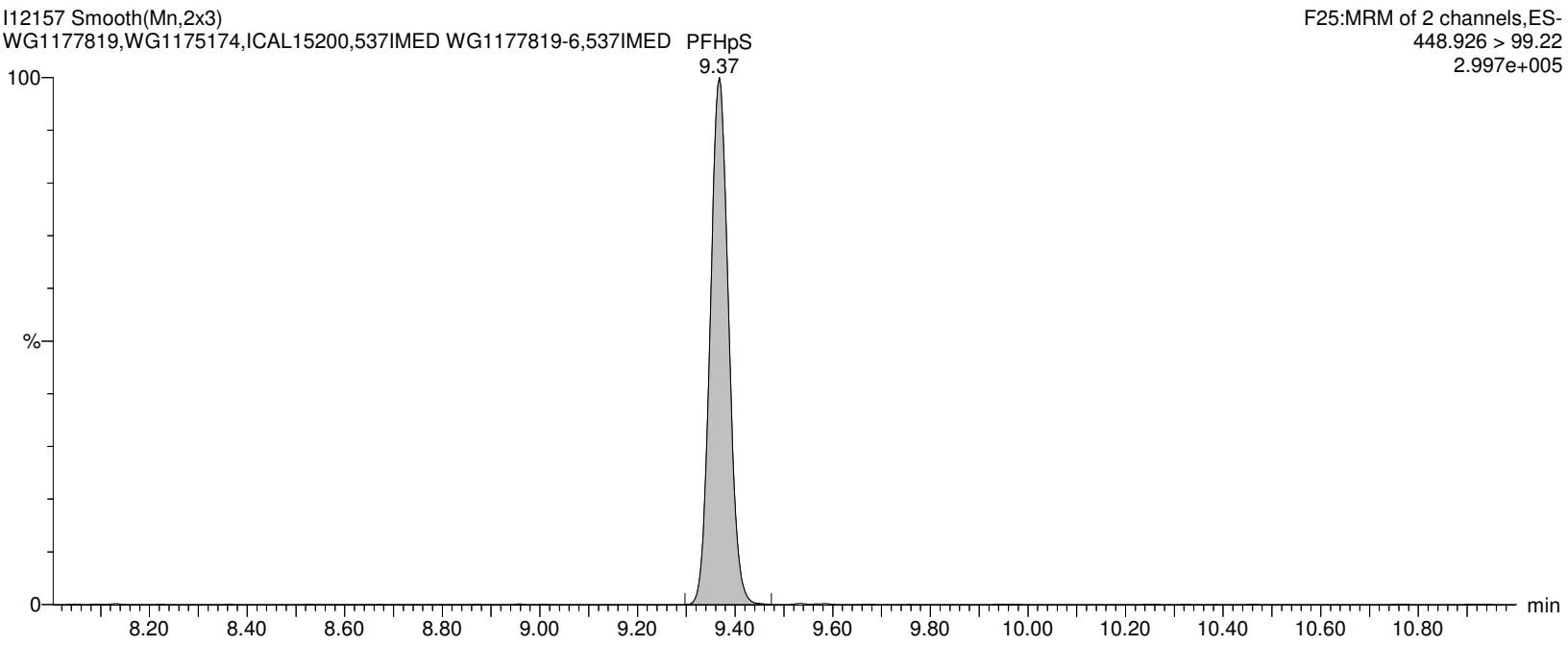

all concentration units in (ng/mL)

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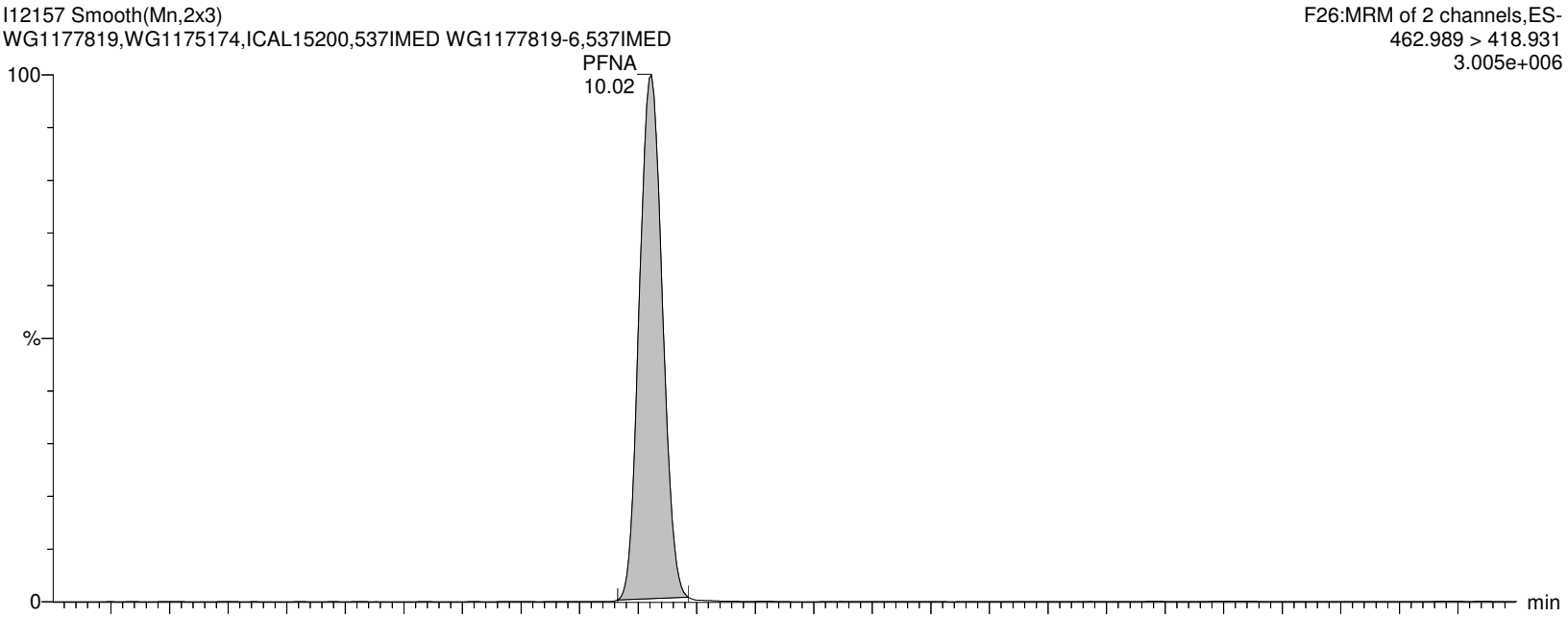

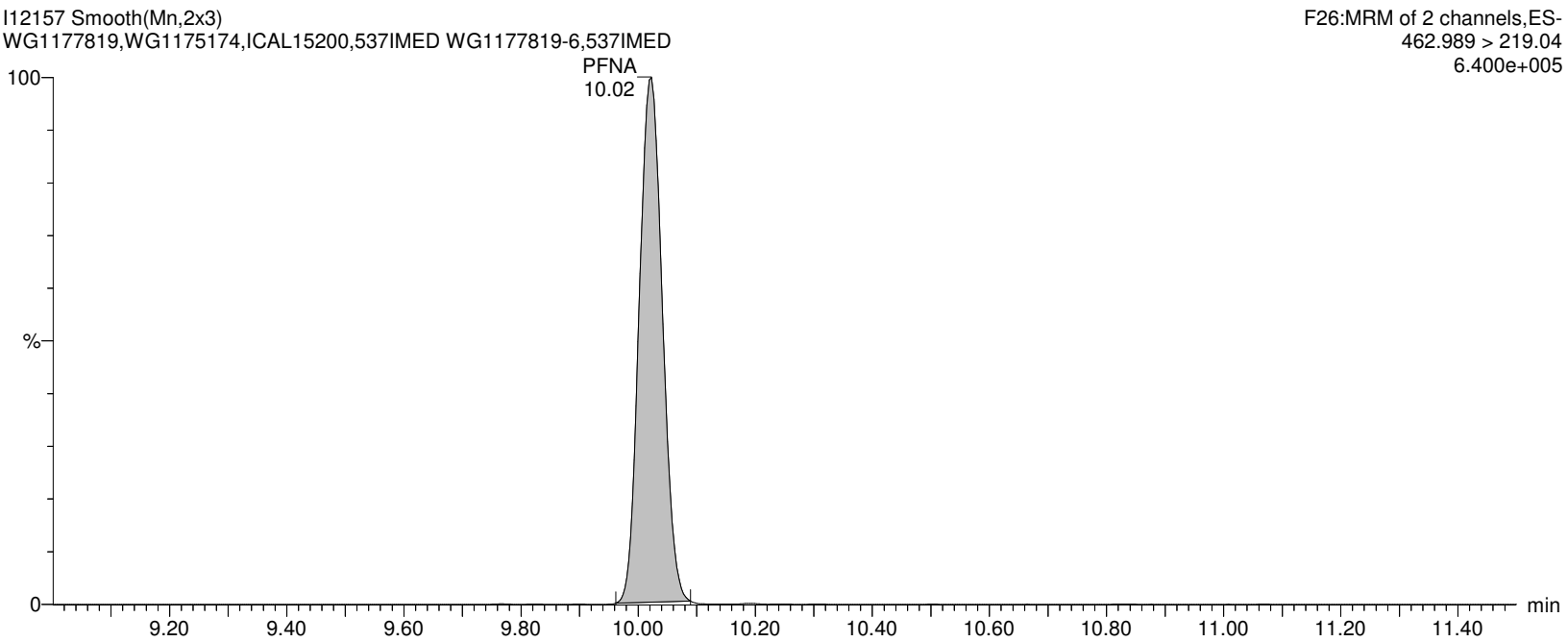

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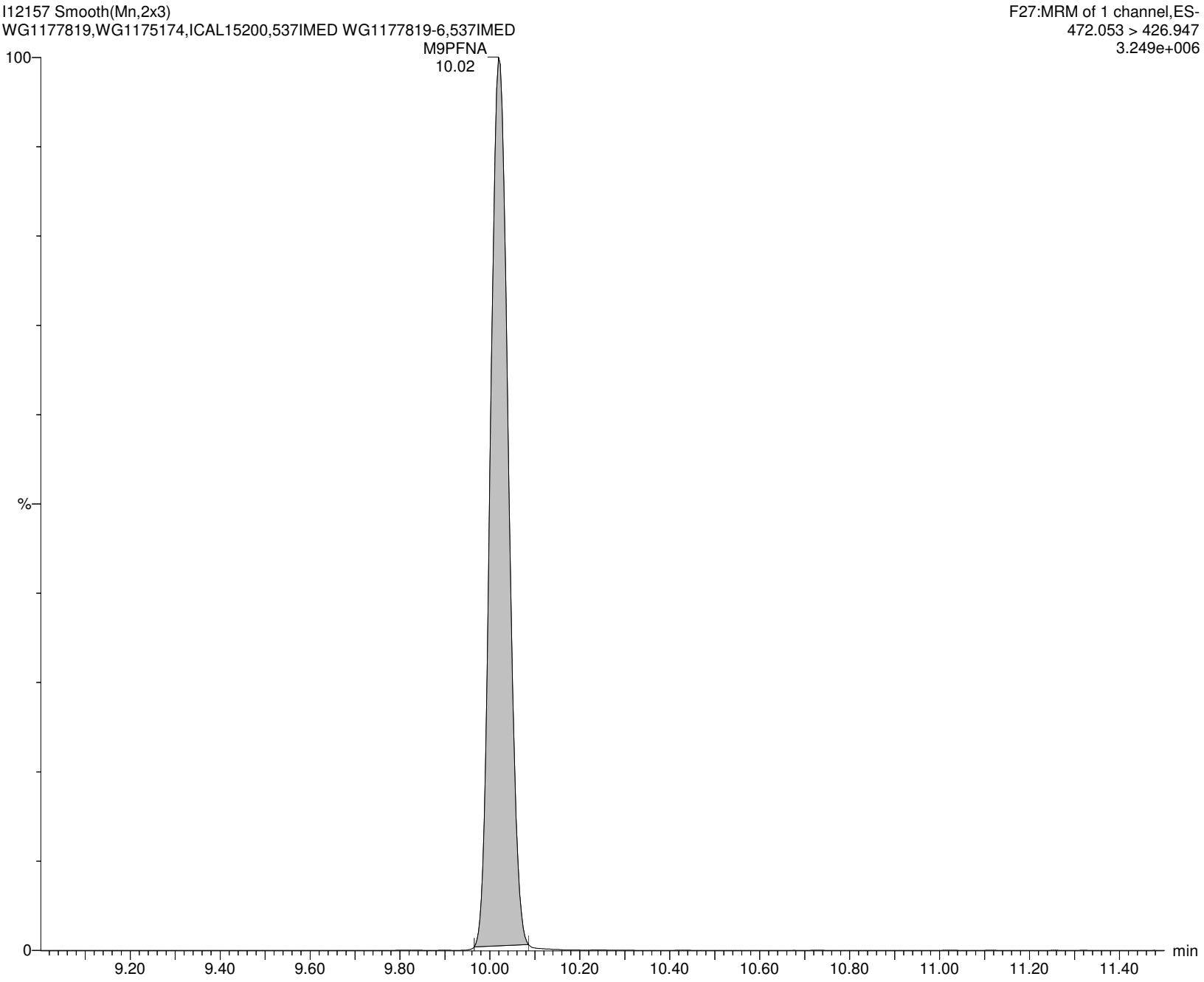

all concentration units in (ng/mL)

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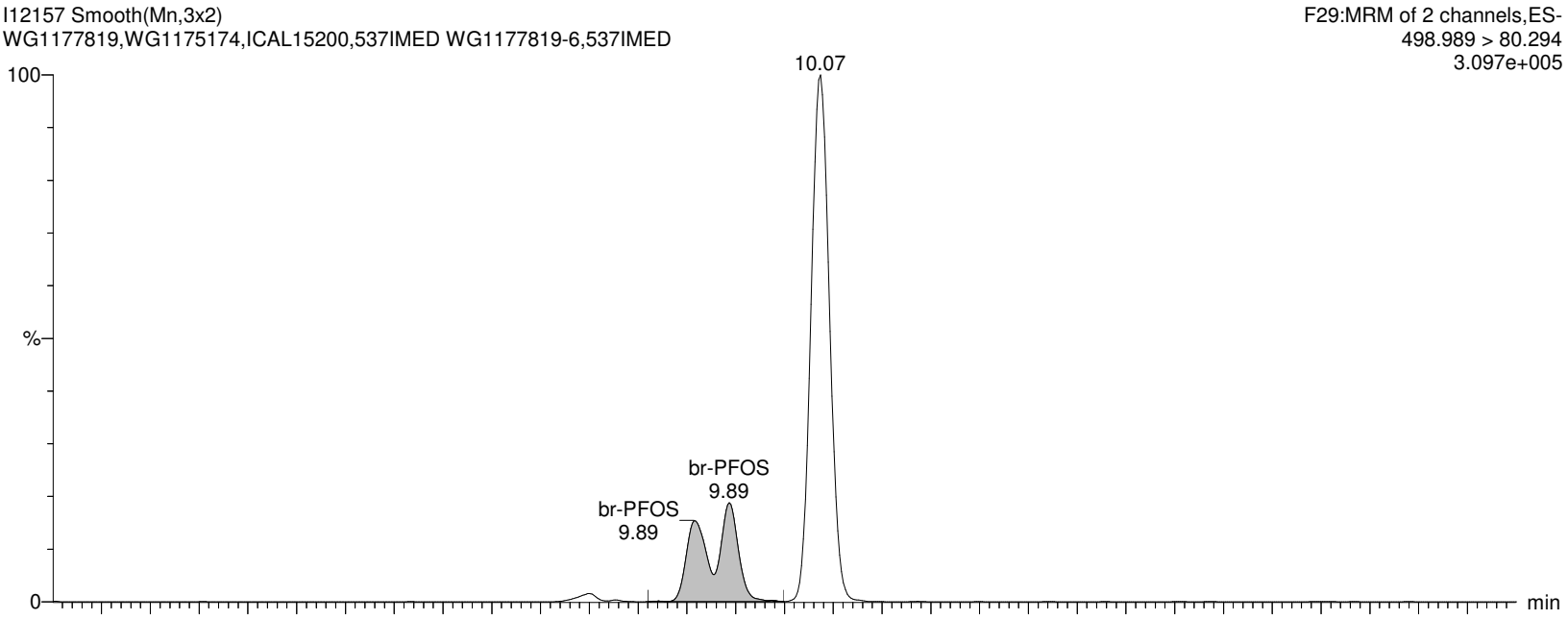

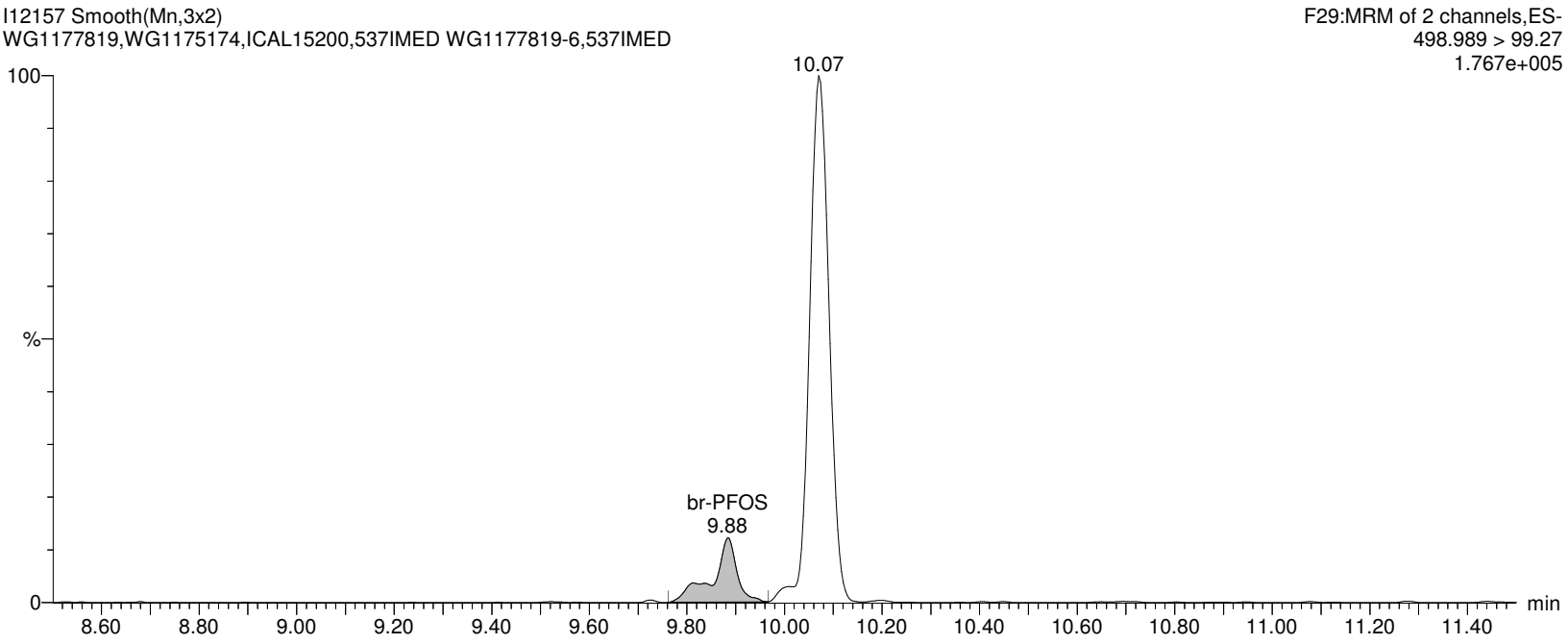

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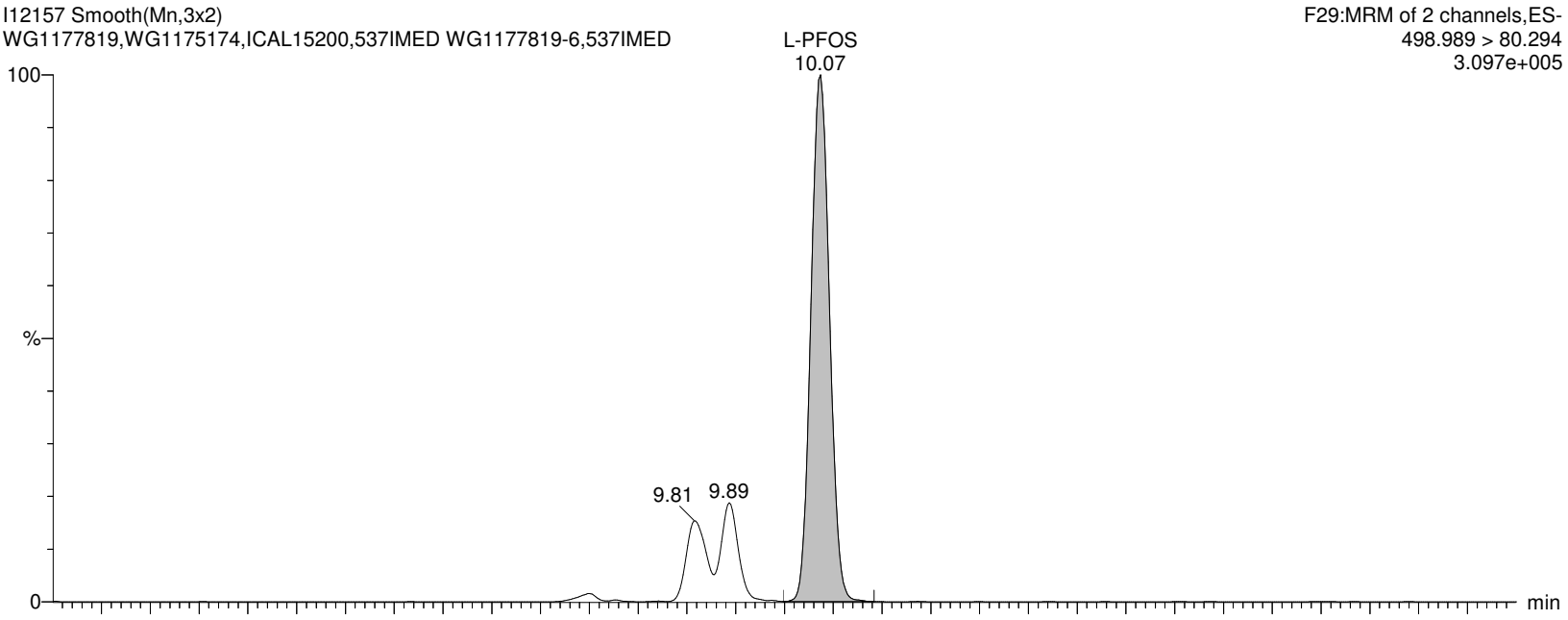

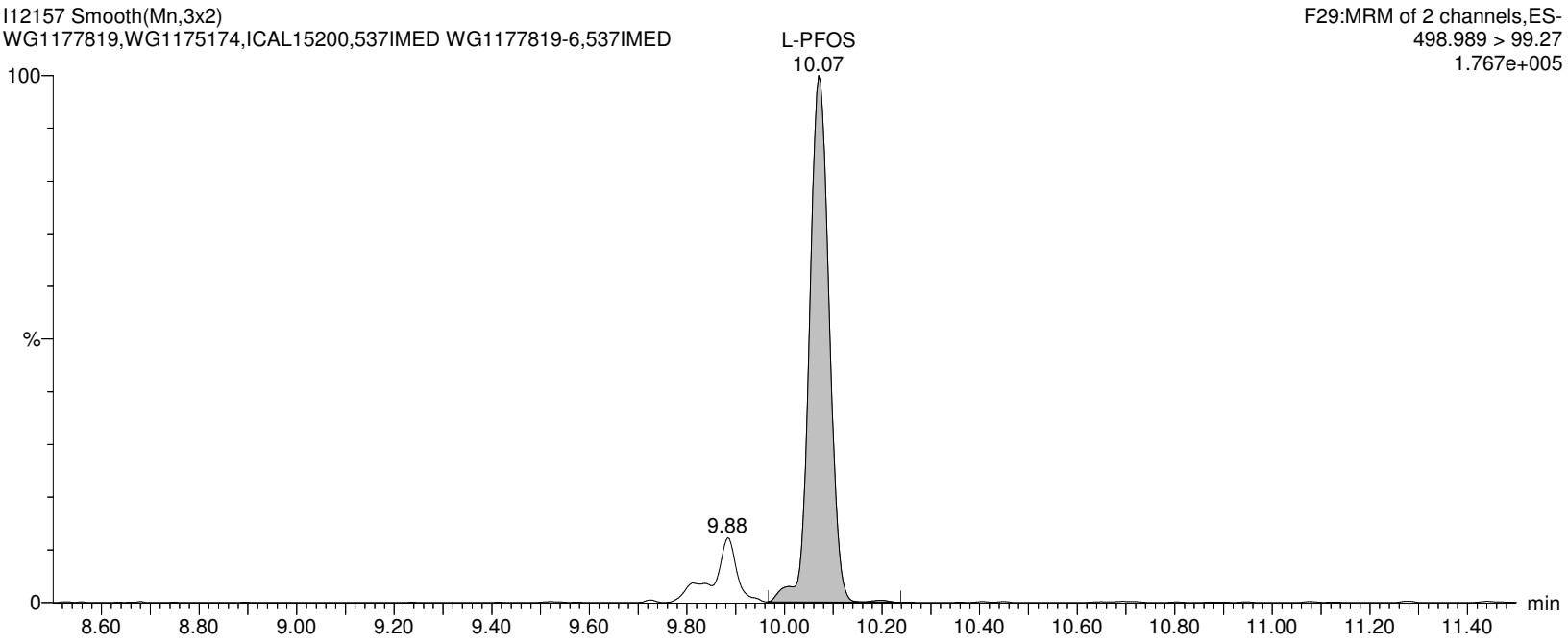

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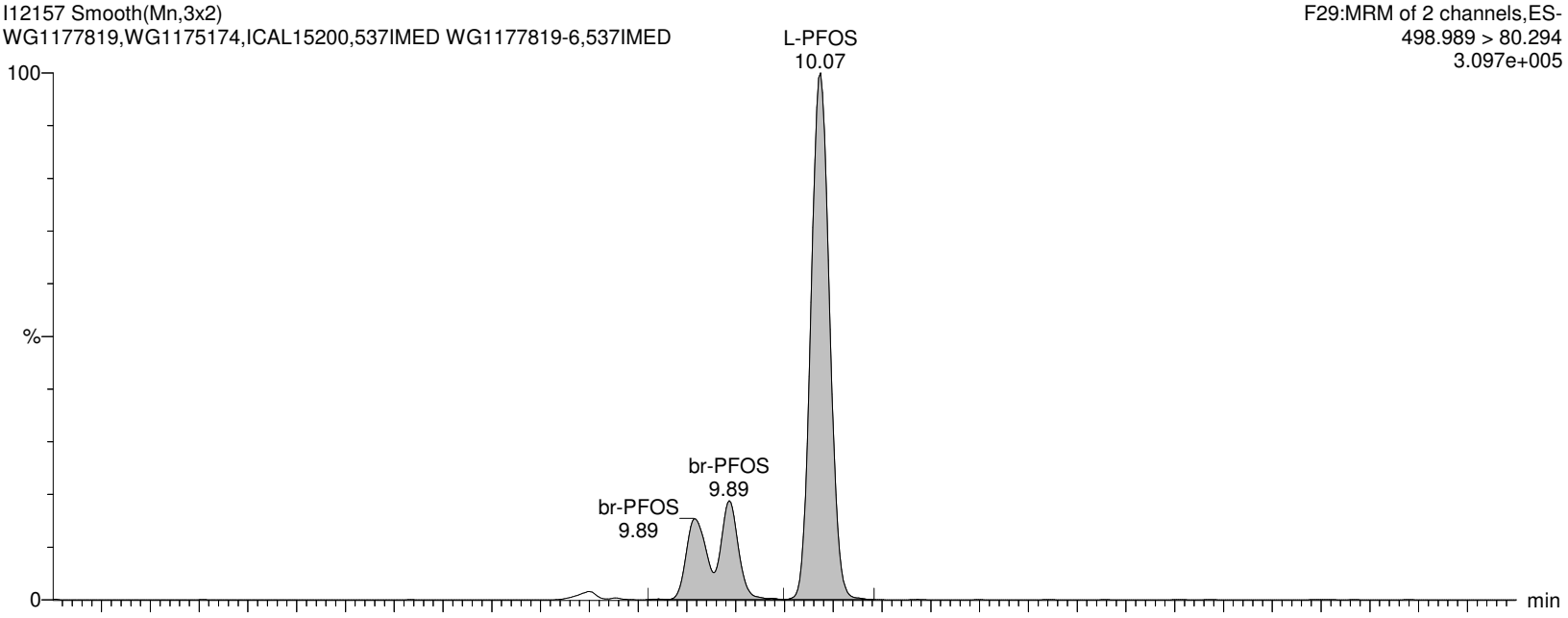

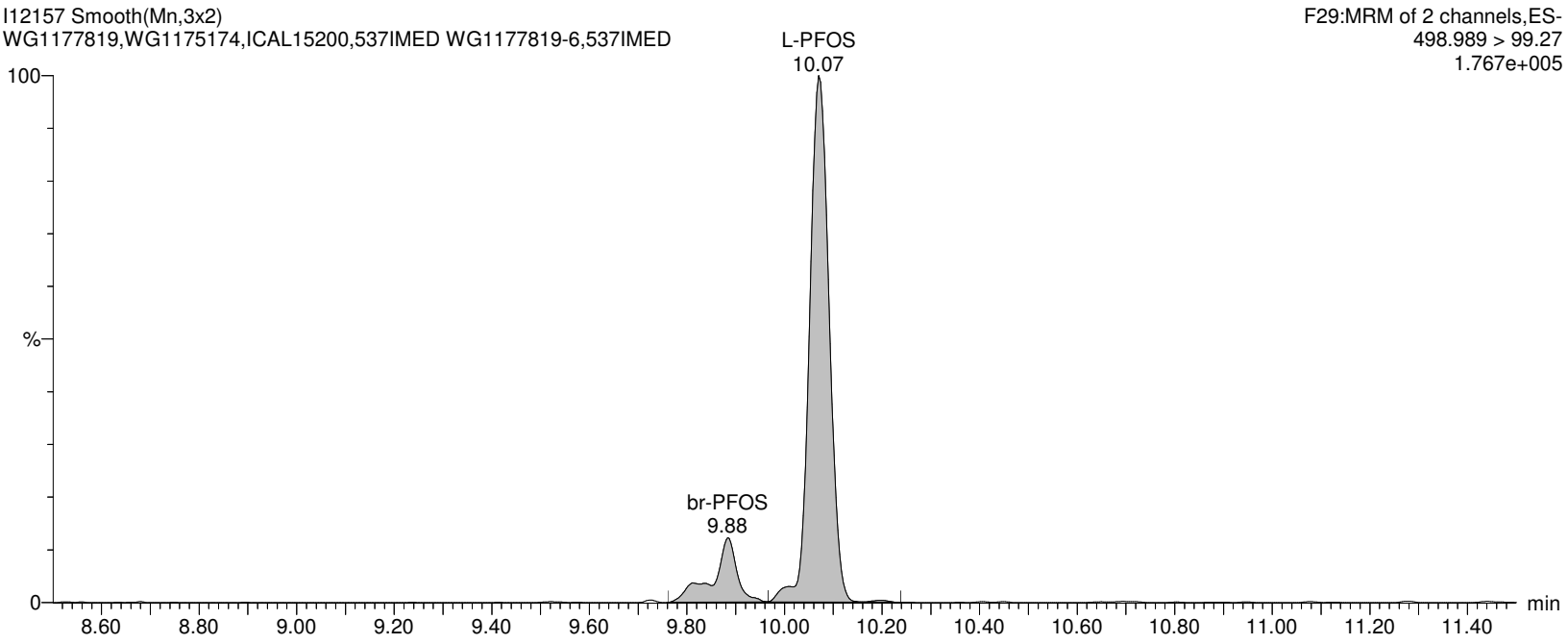

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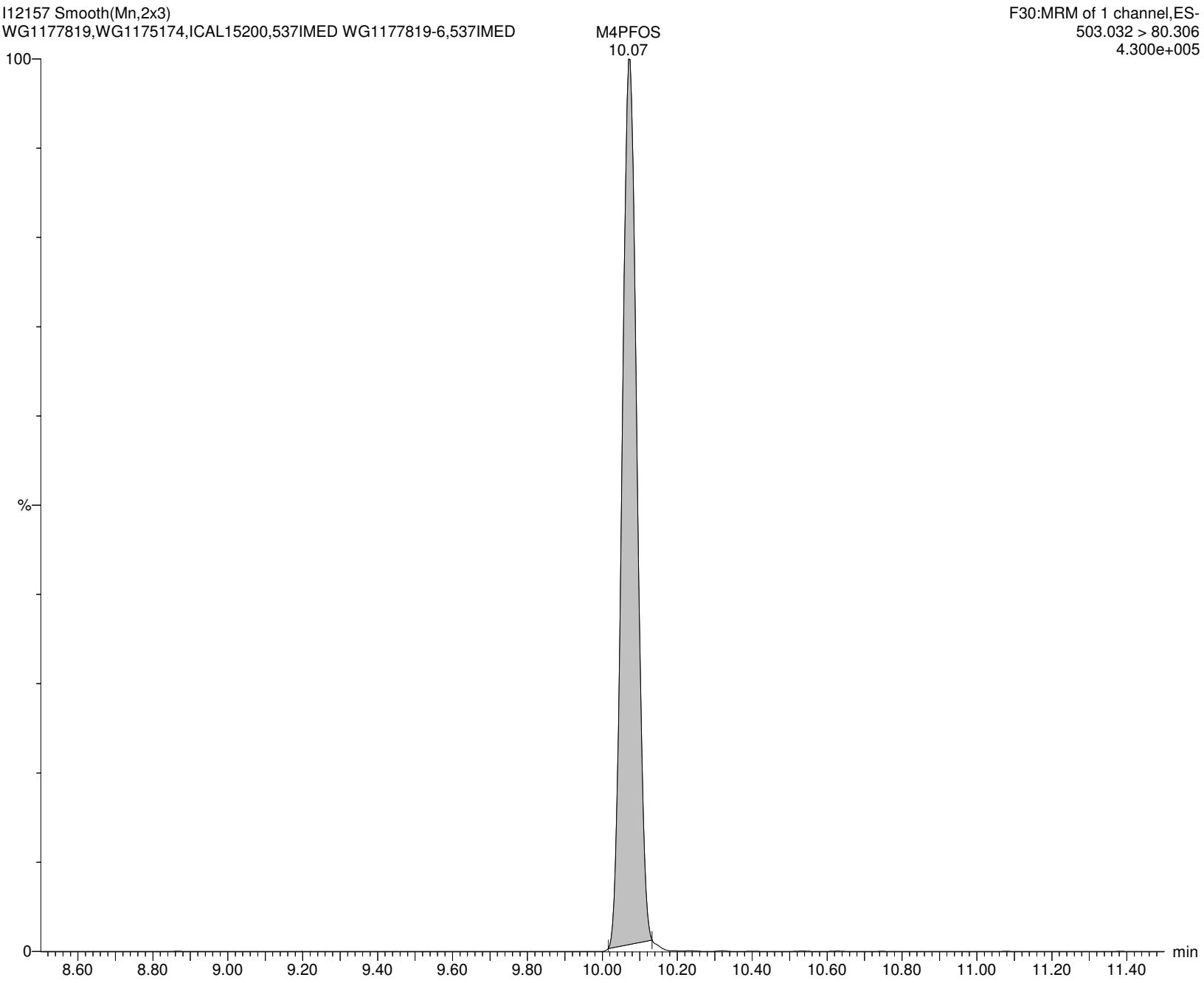

all concentration units in (ng/mL)

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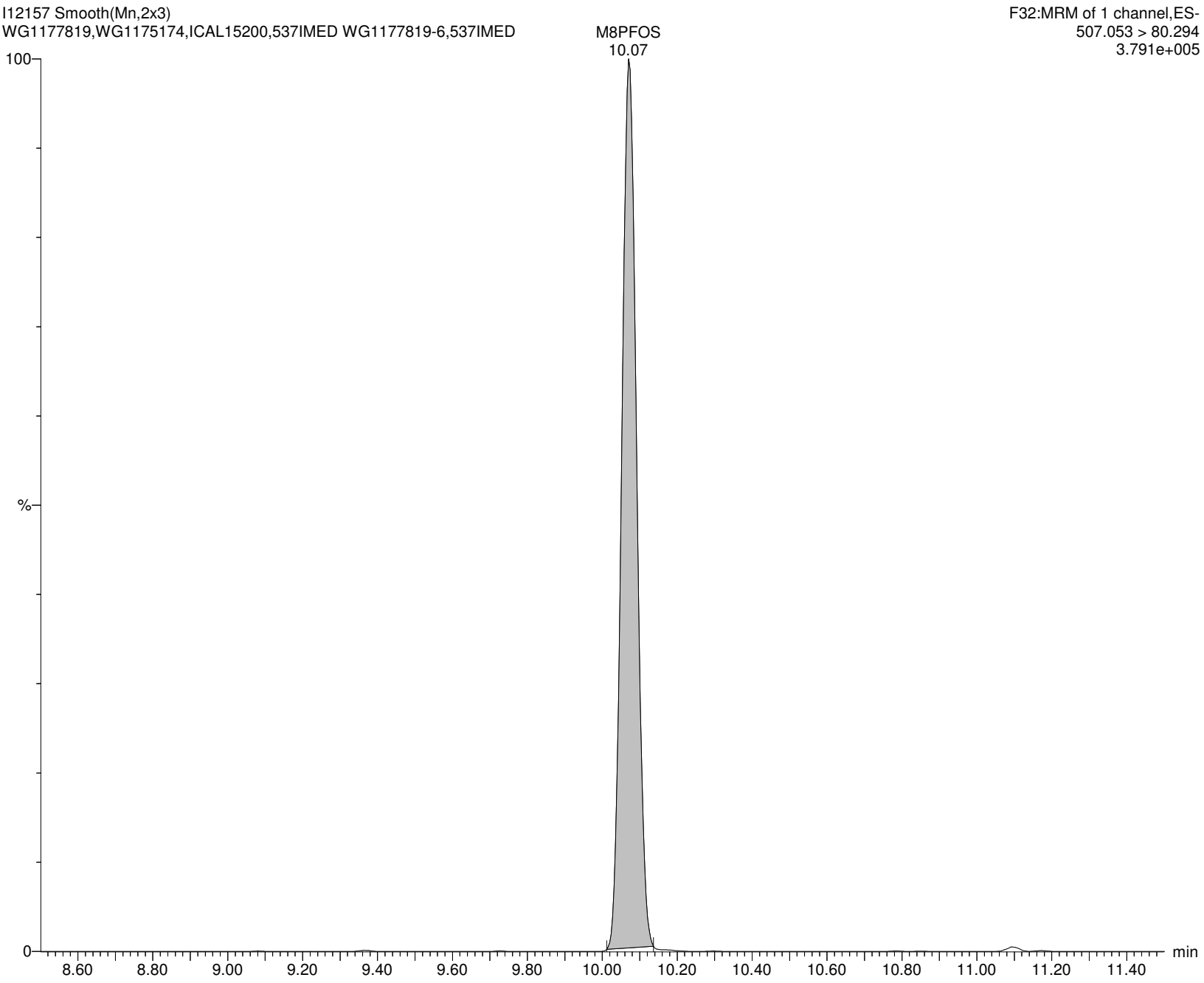

all concentration units in (ng/mL)

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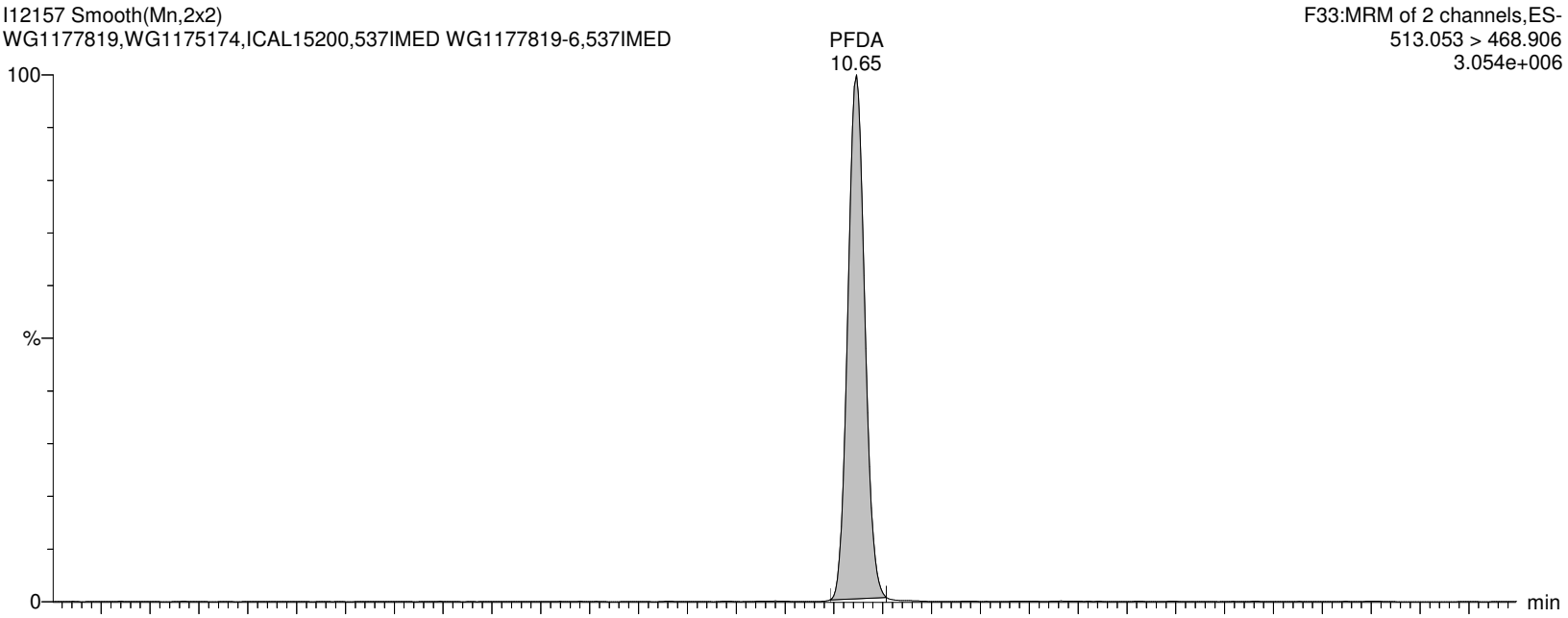

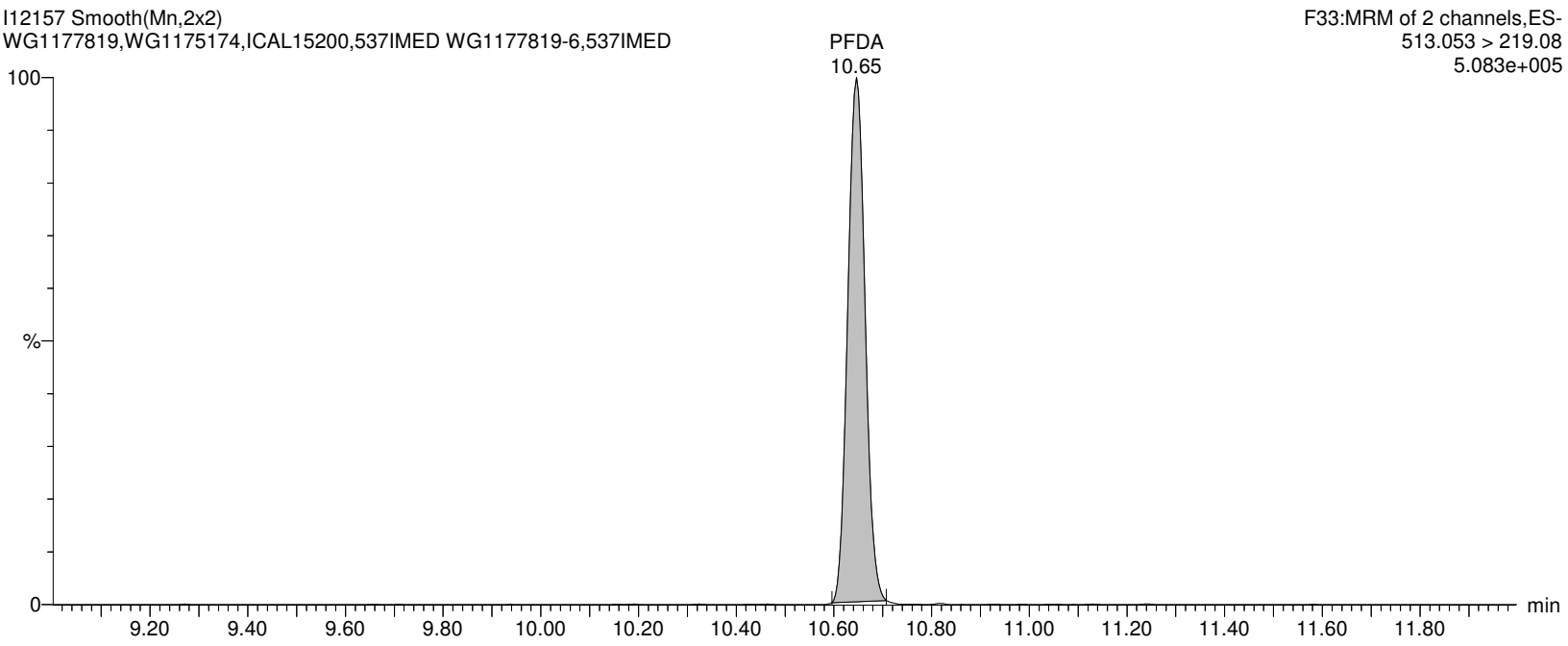

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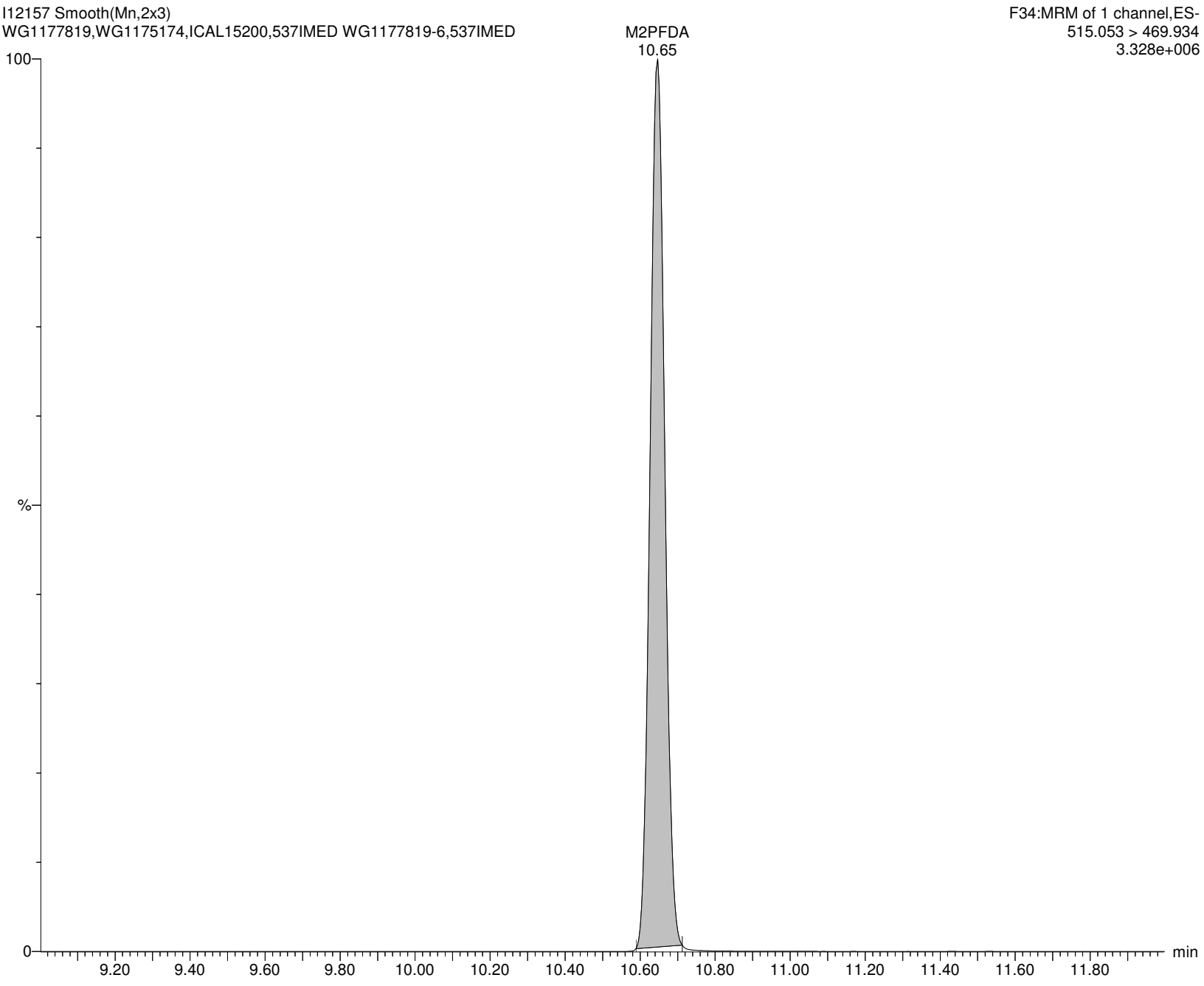

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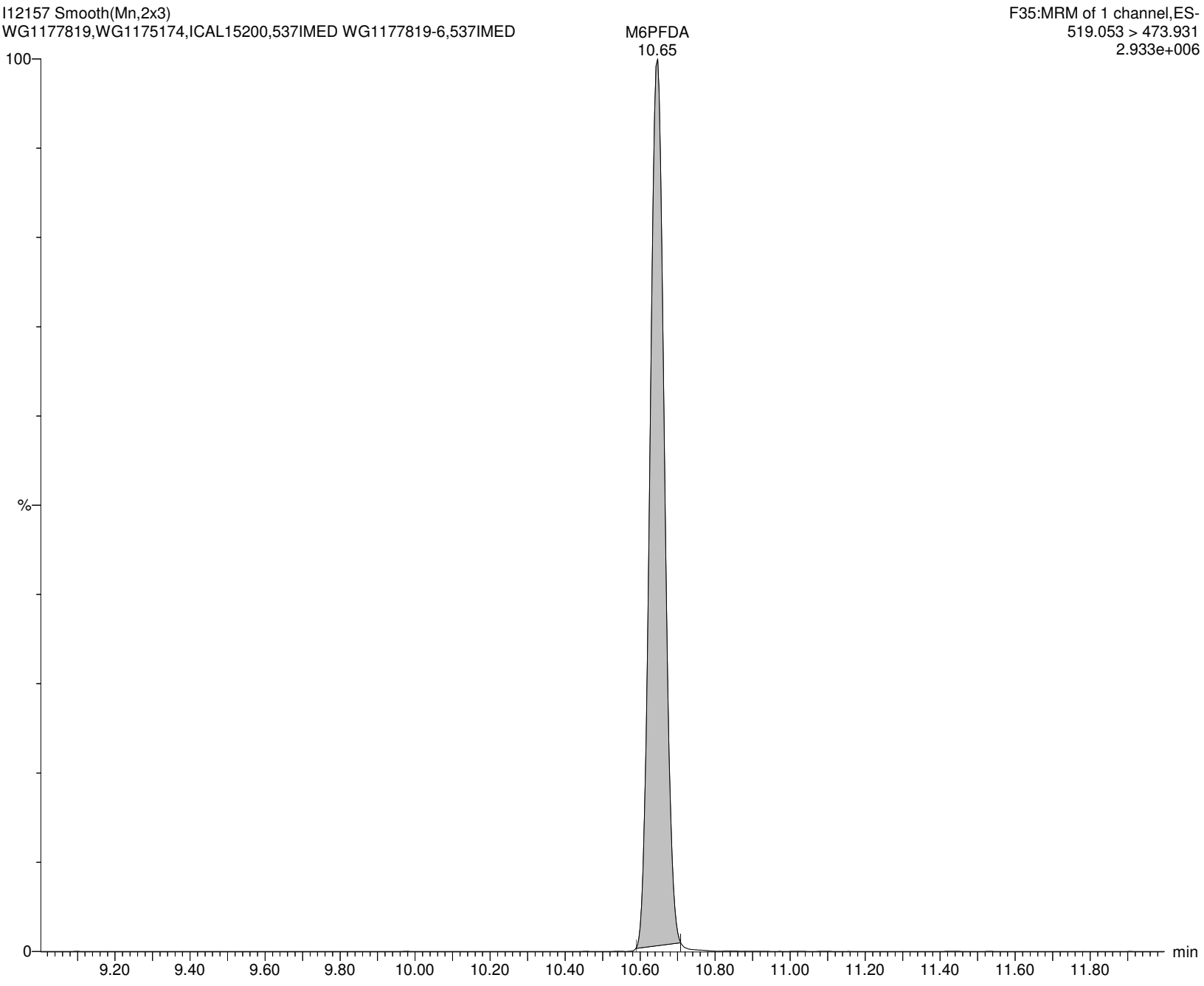

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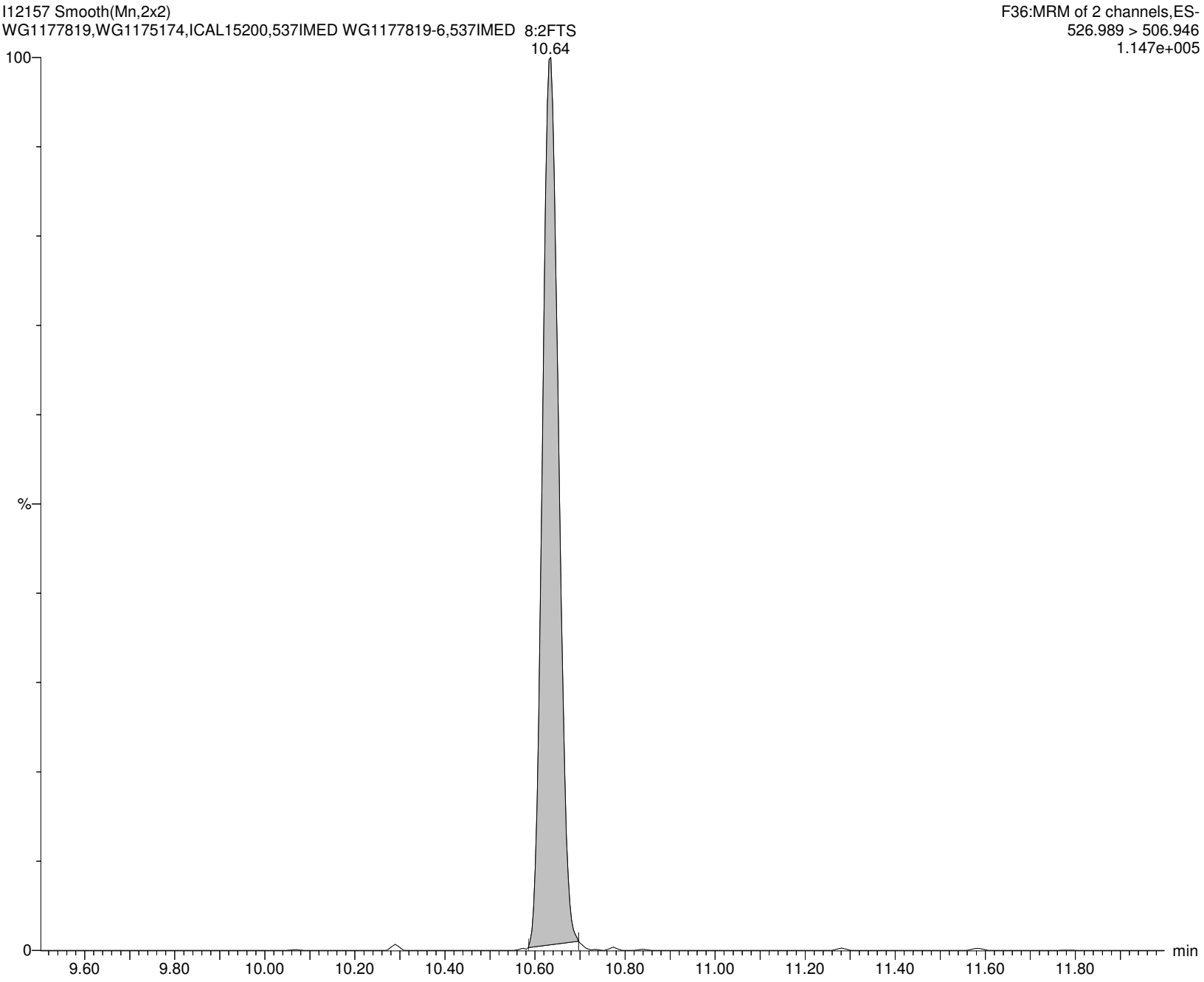

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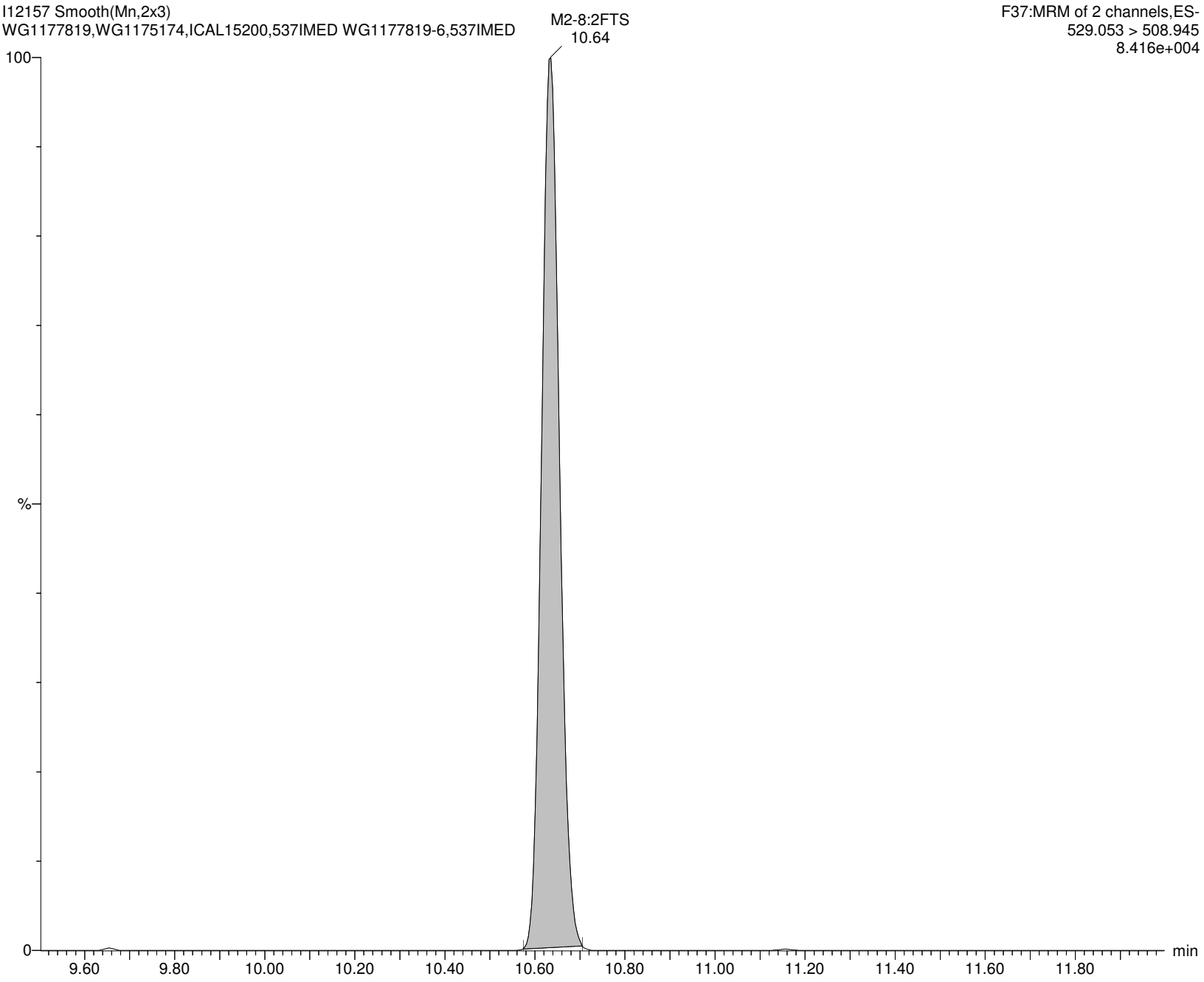

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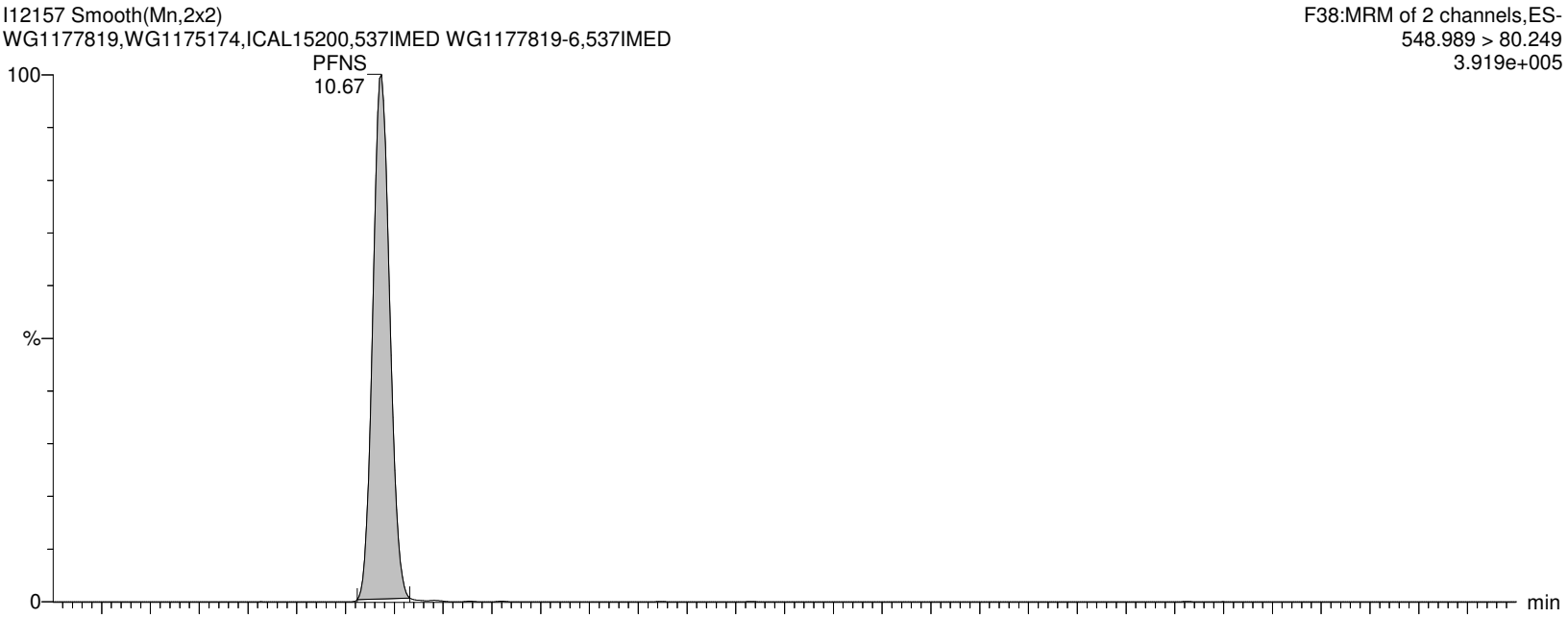
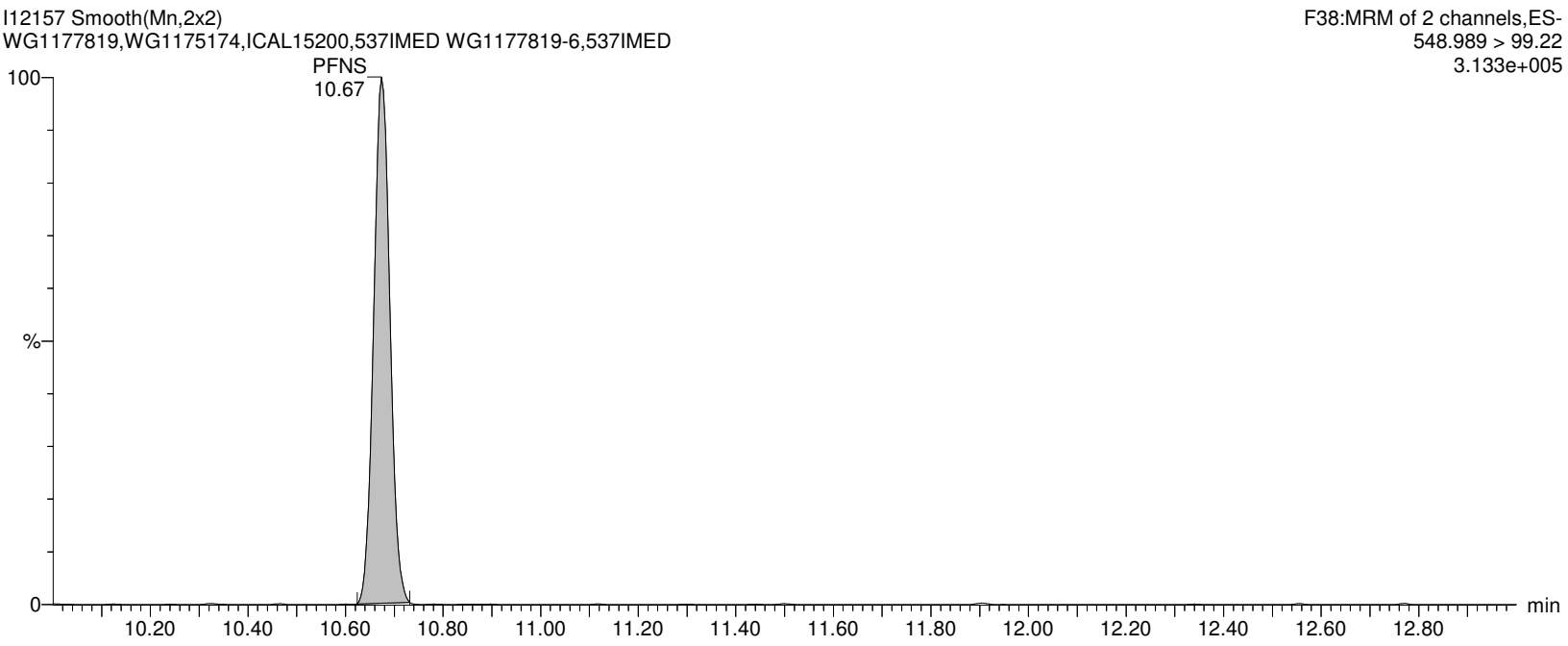
PFNS





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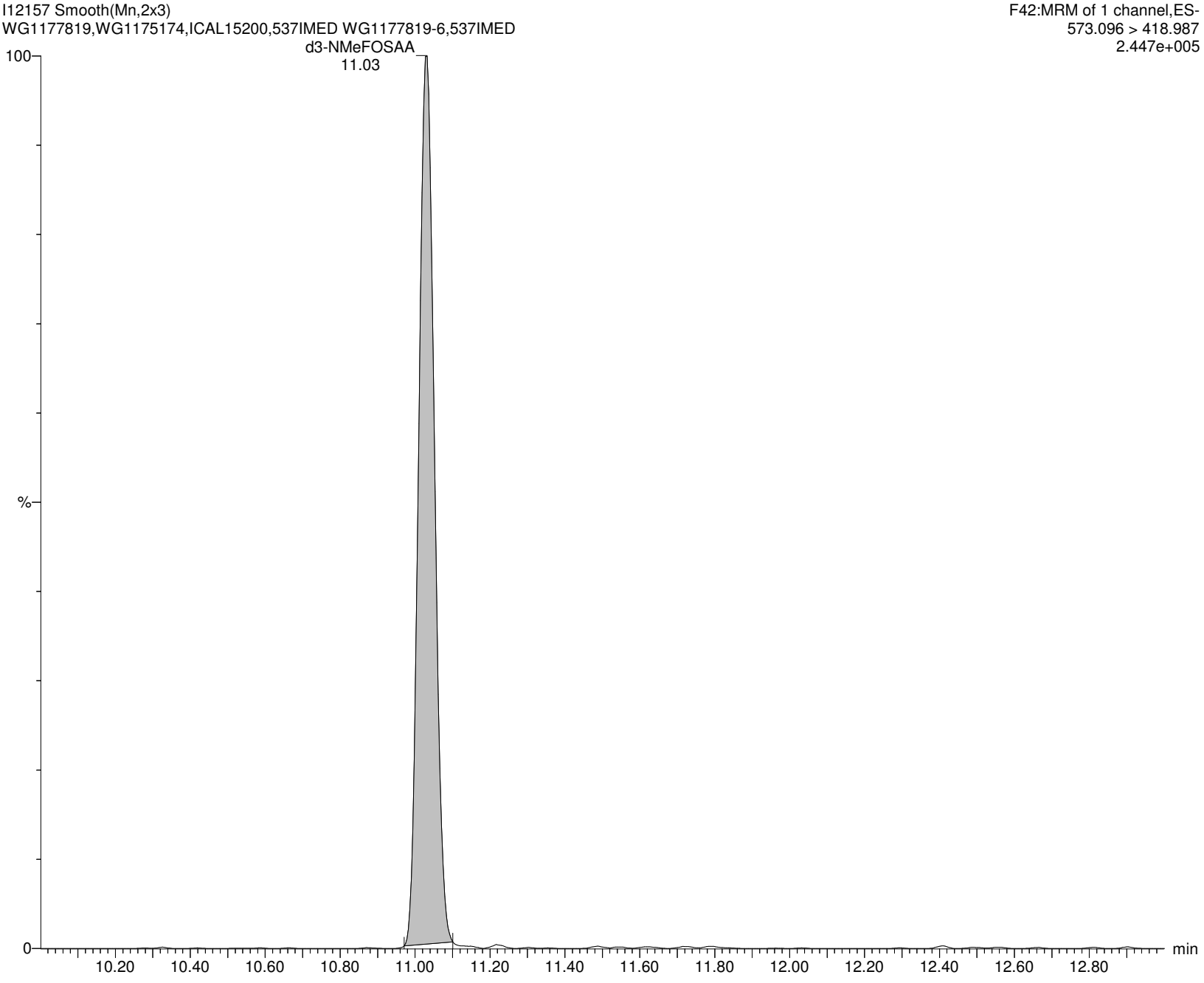

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Name: I12157
ID: WG1177819-6,537IMED
Date: 10-Nov-2018
Time: 08:14:42
Description: WG1177819,WG1175174,ICAL15200,537IMED
User: LCMS01:AJ
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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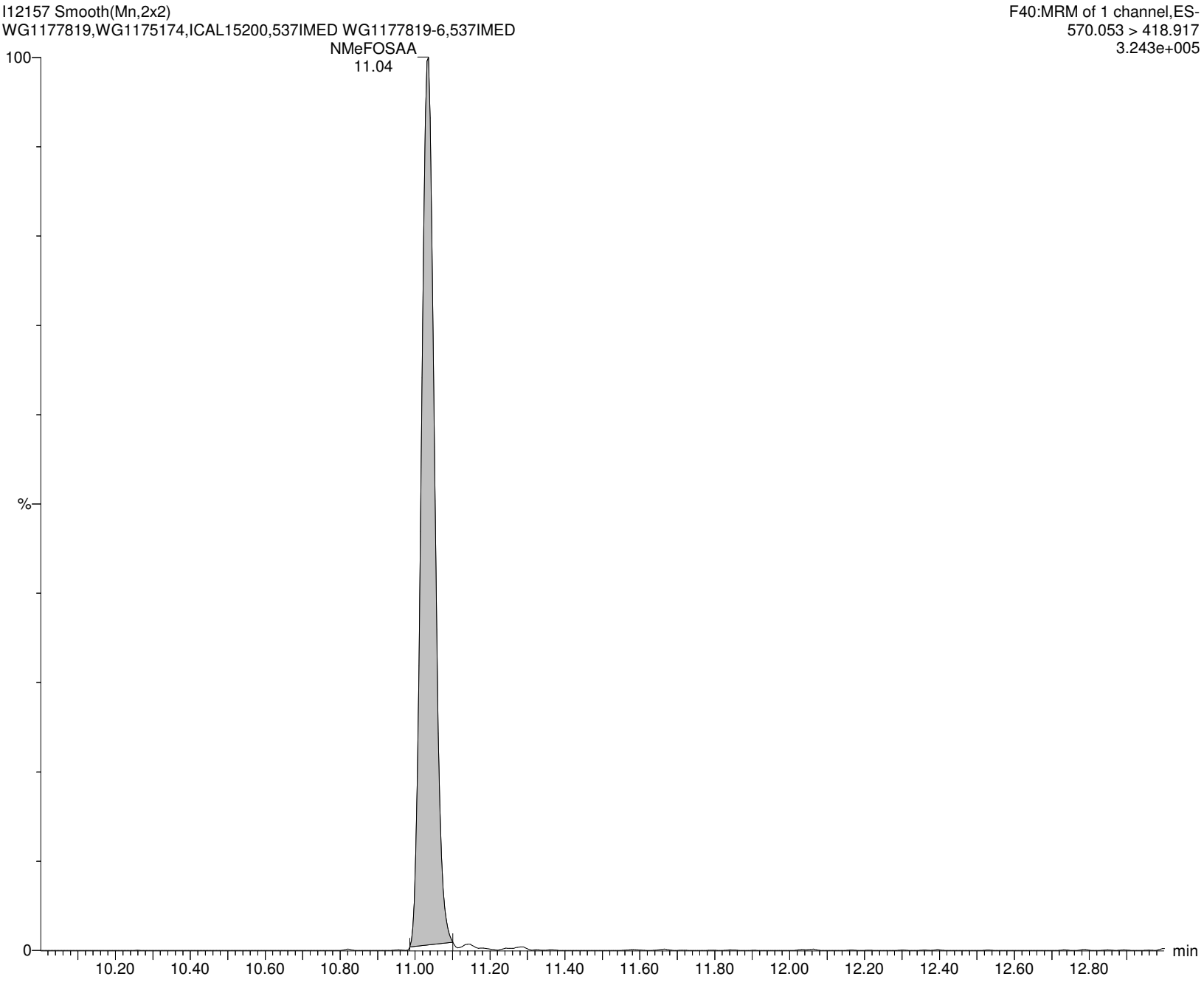

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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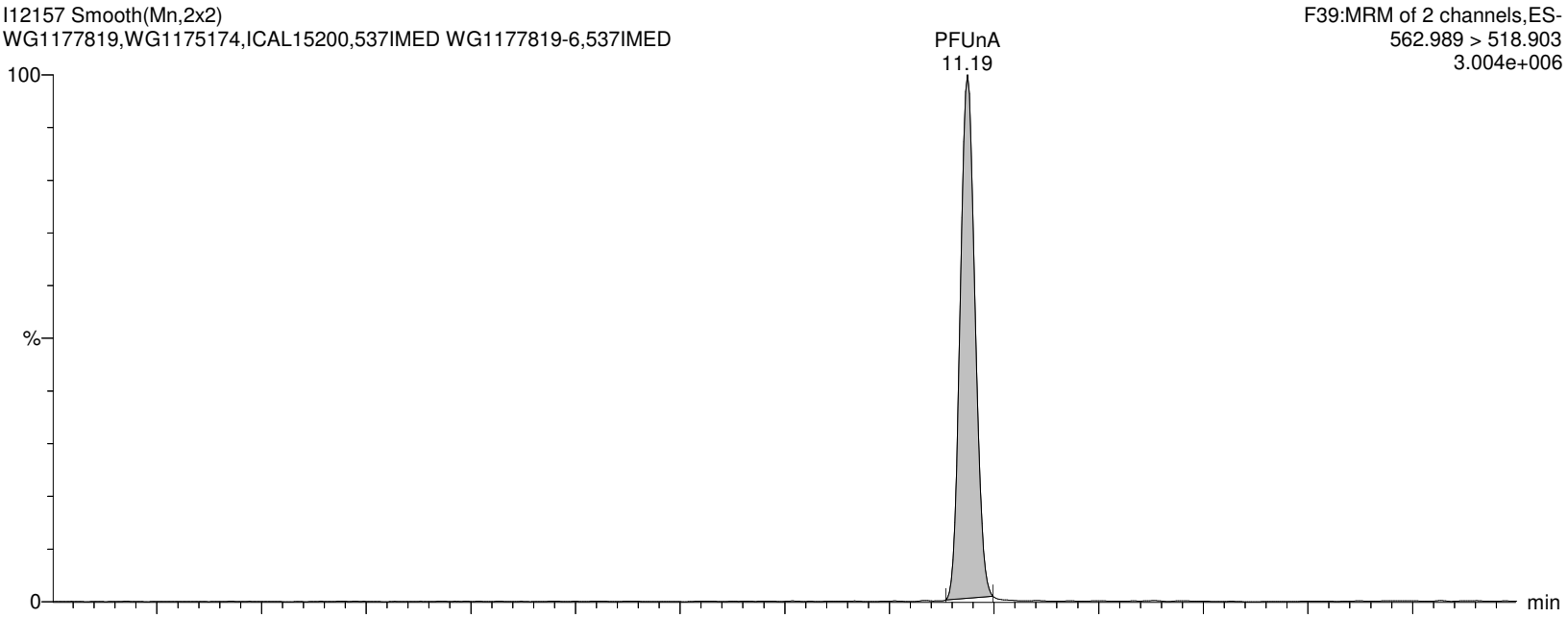

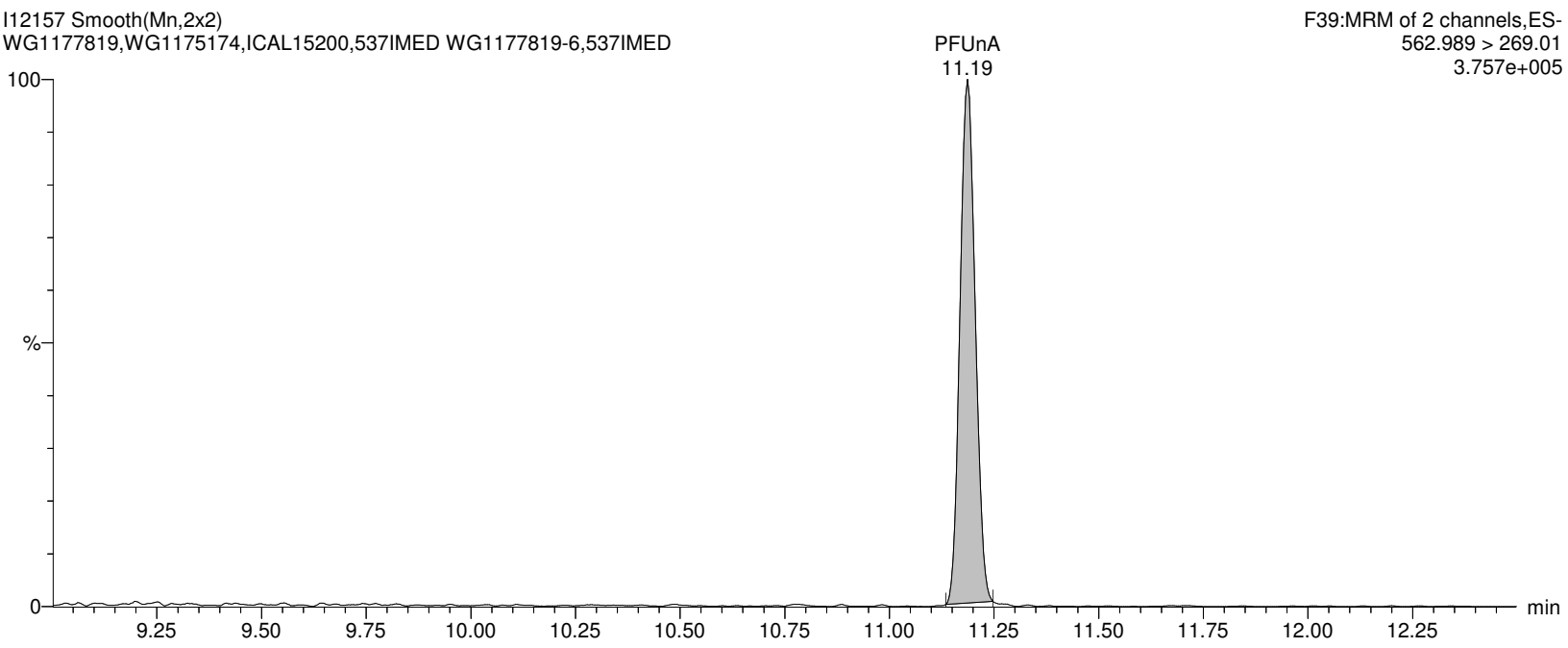

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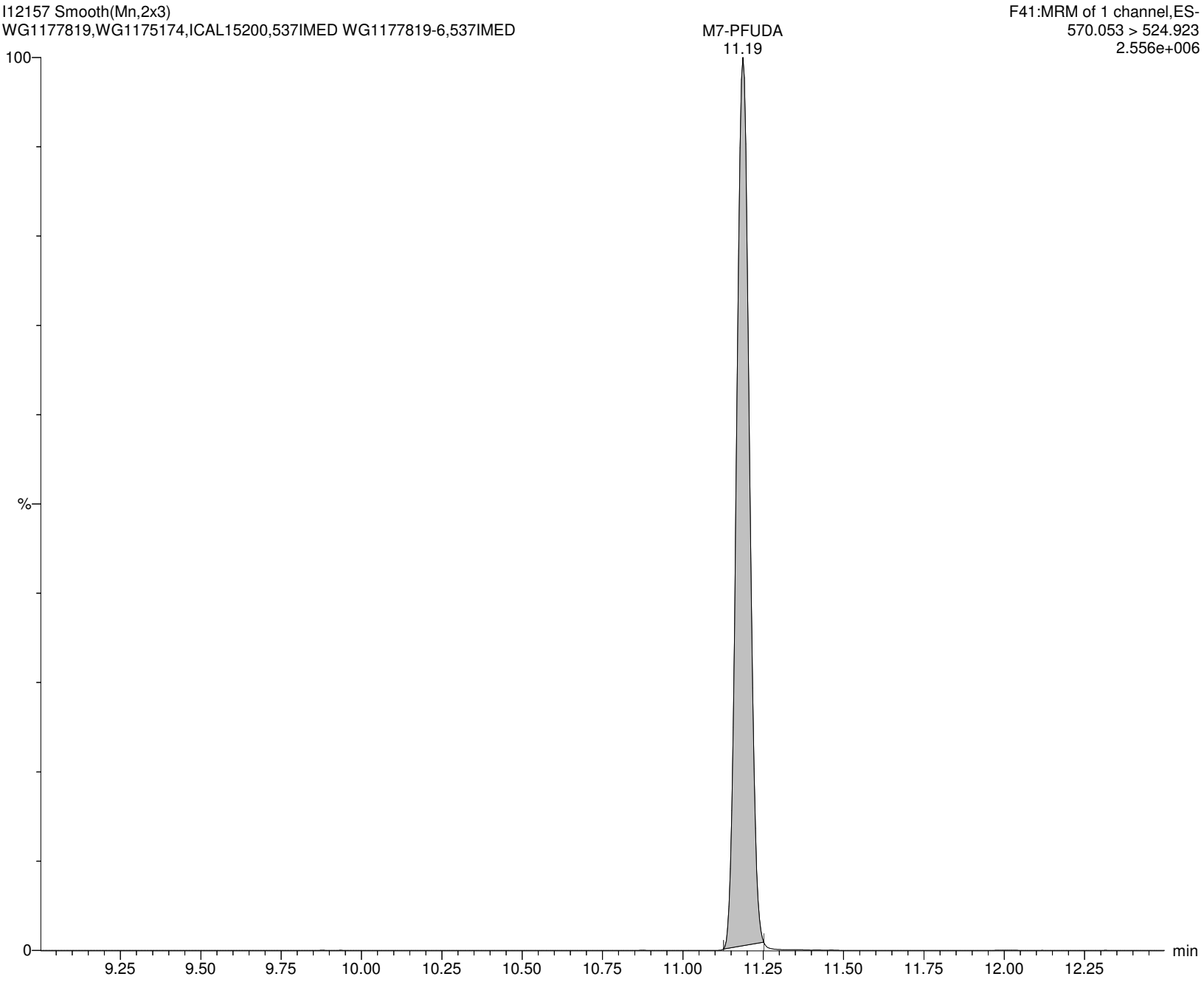

all concentration units in (ng/mL)

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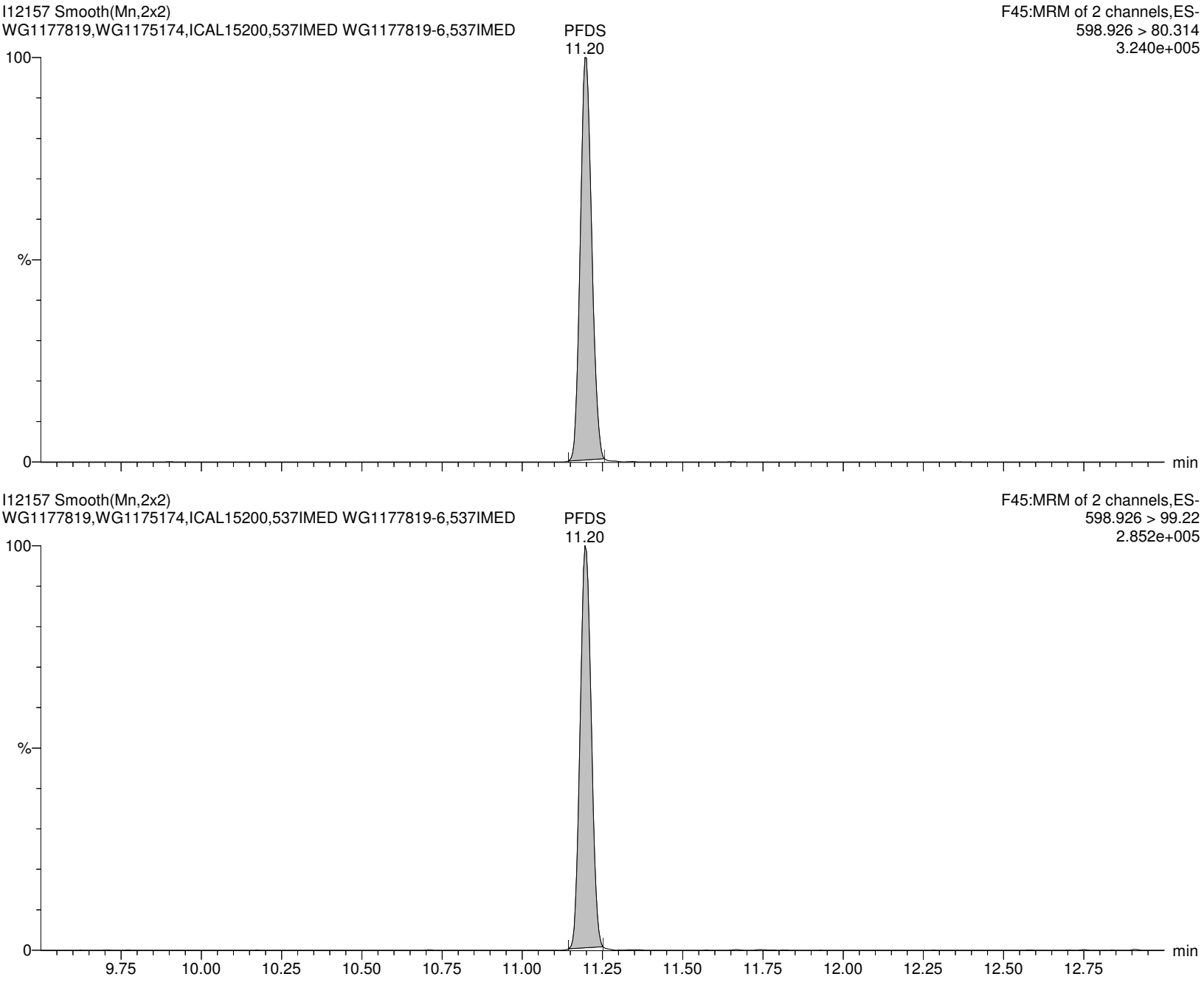

all concentration units in (ng/mL)

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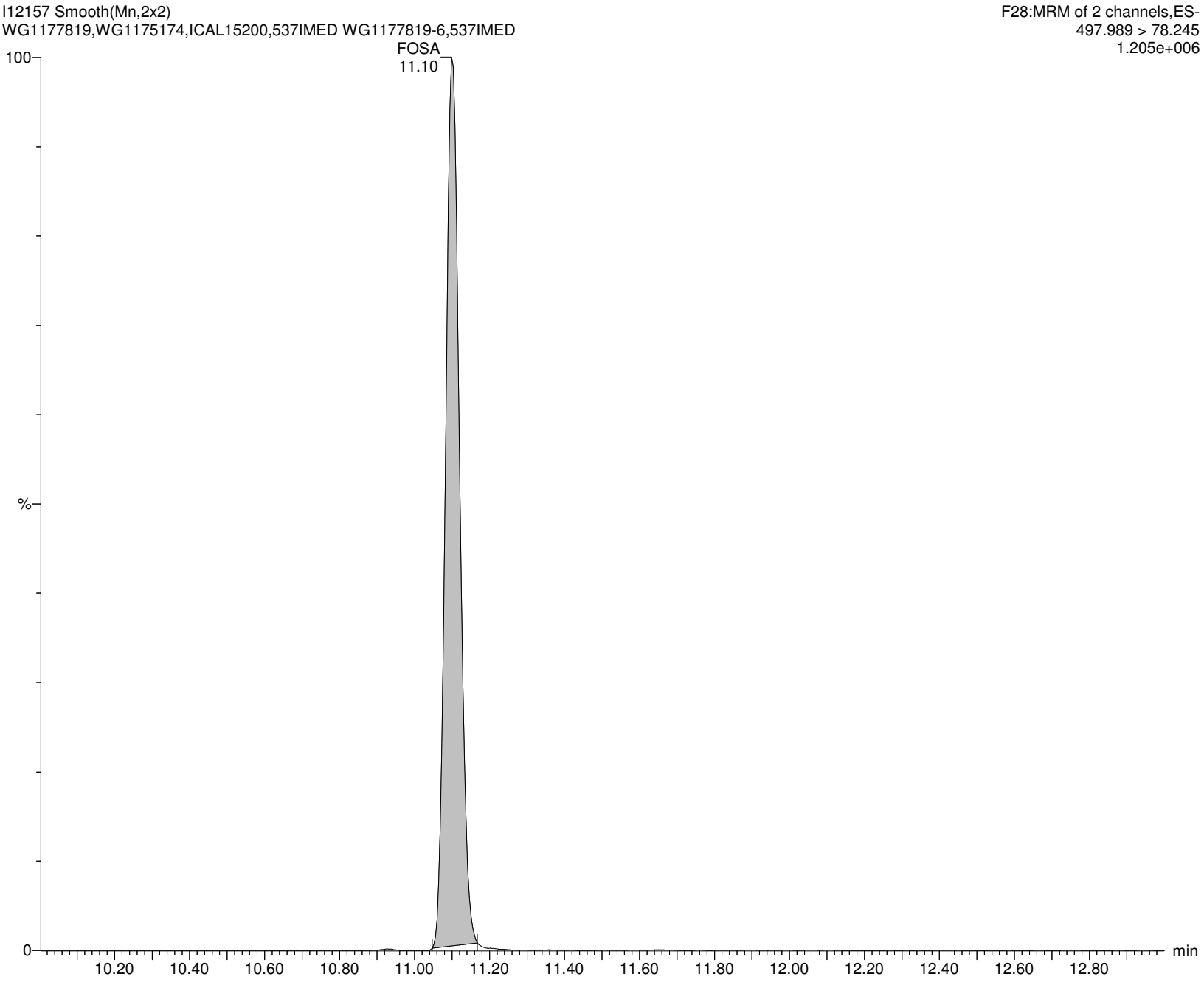
FOSA



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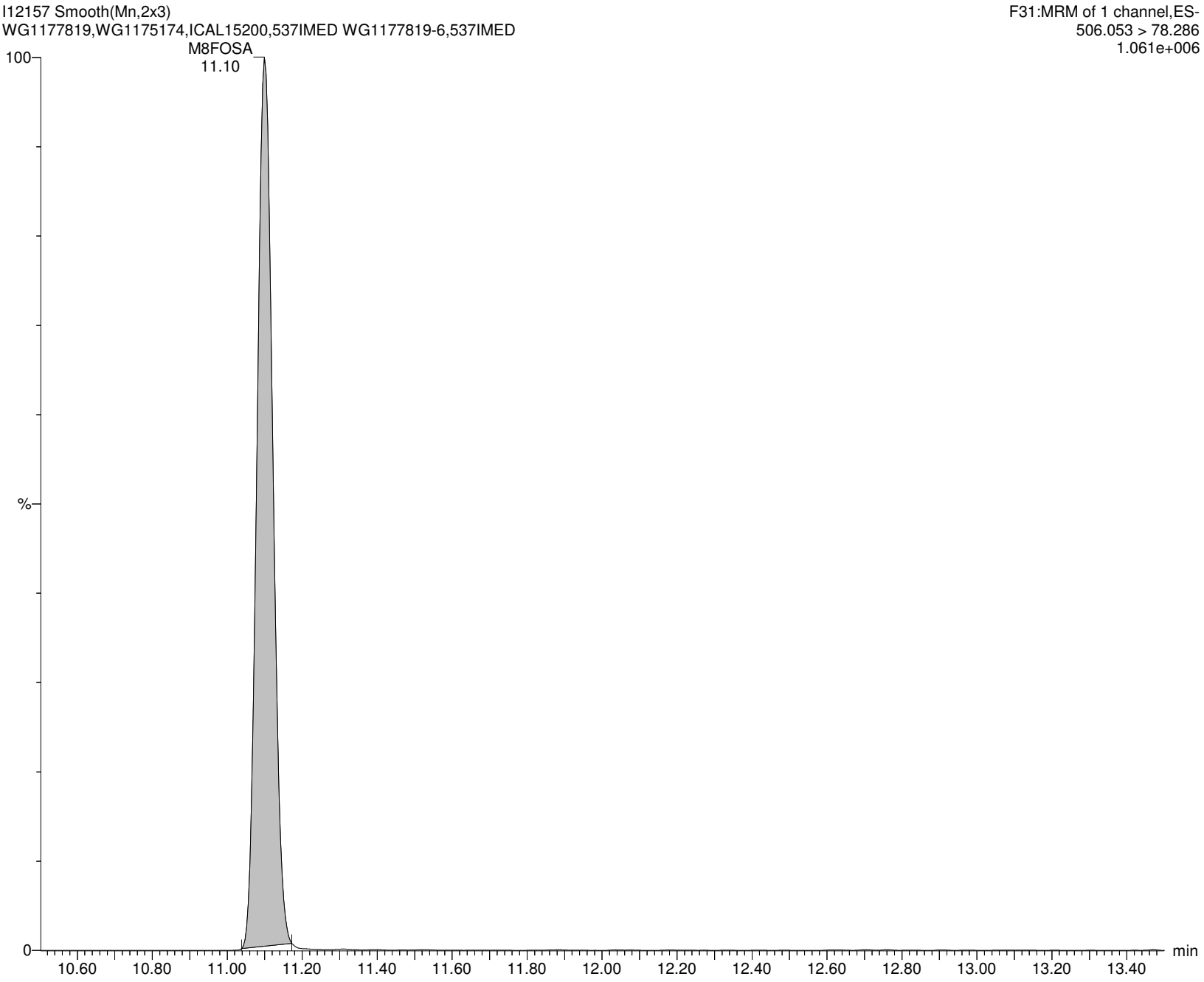

all concentration units in (ng/mL)

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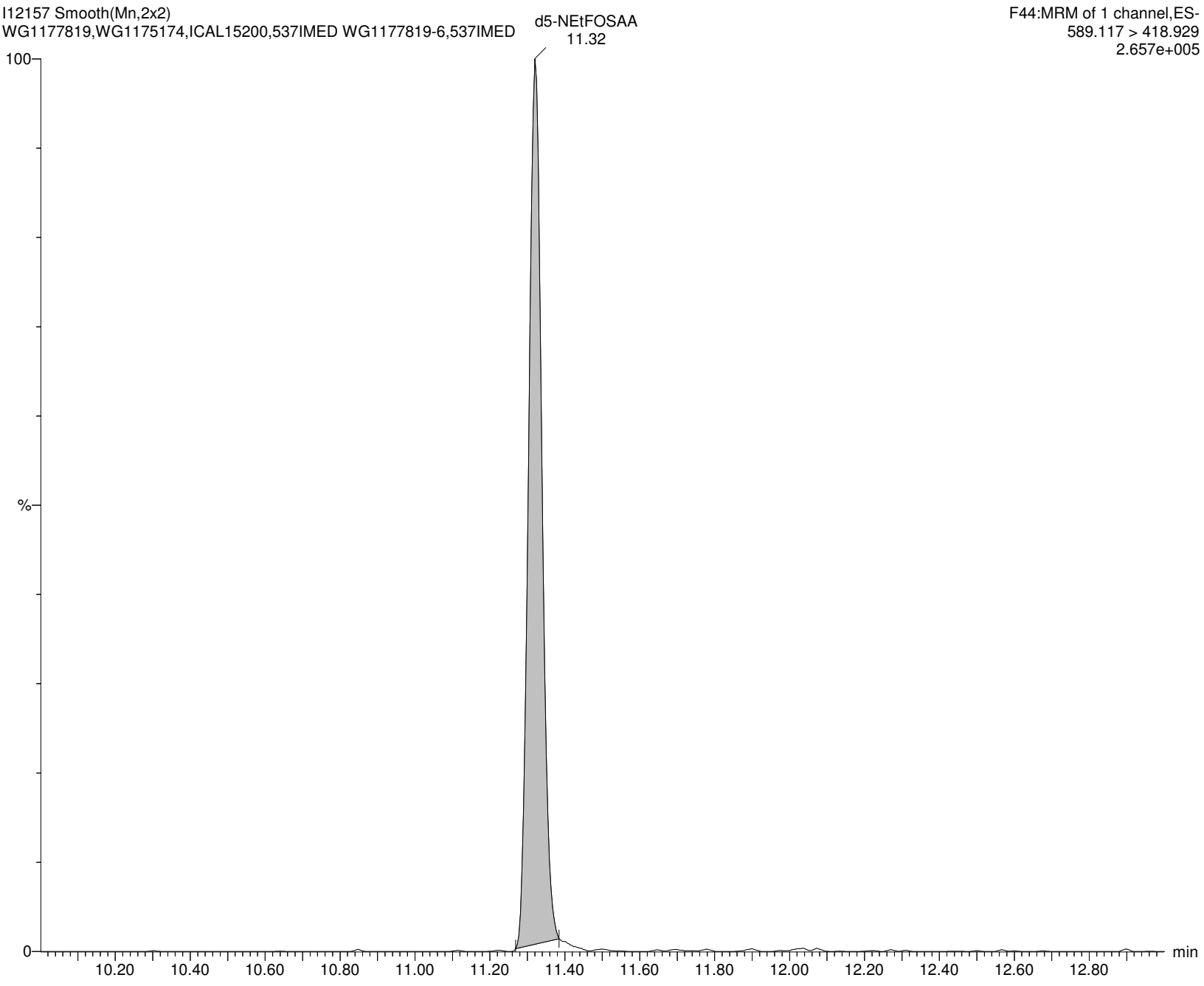
d5-NEtFOSAA



all concentration units in (ng/mL)

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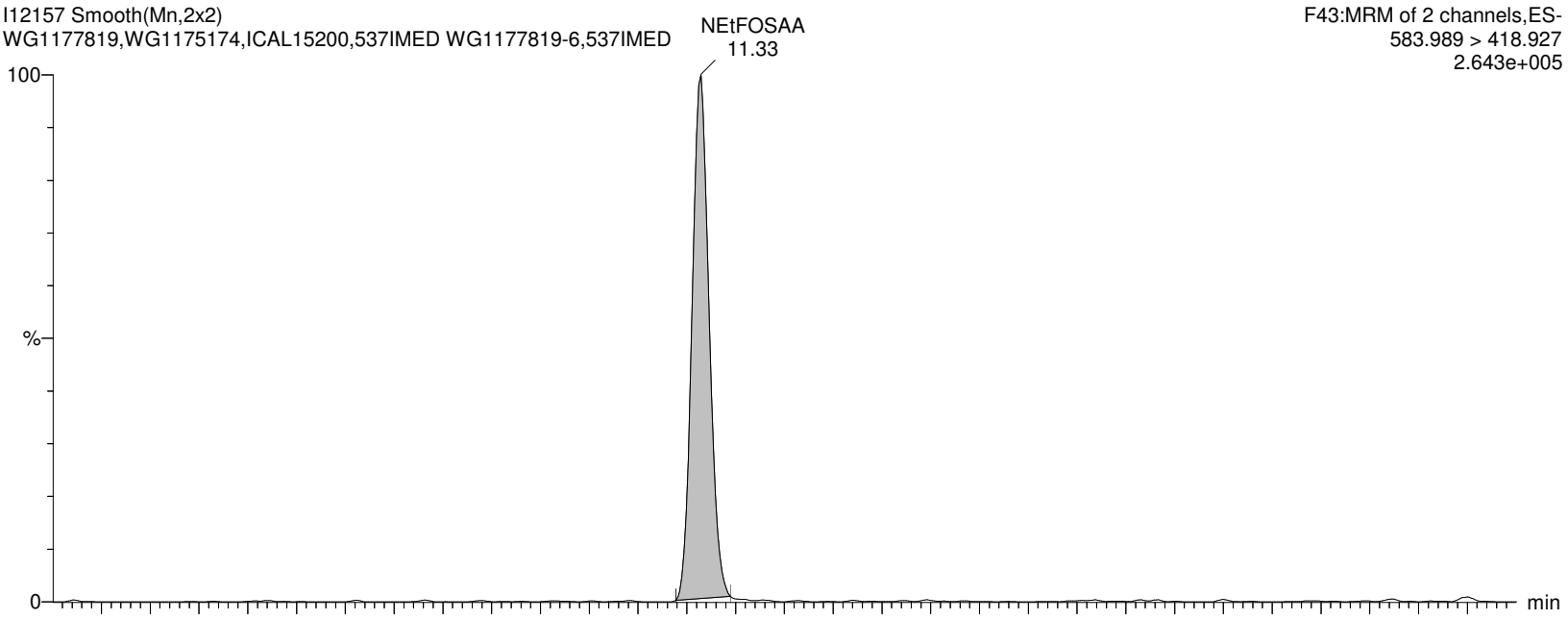

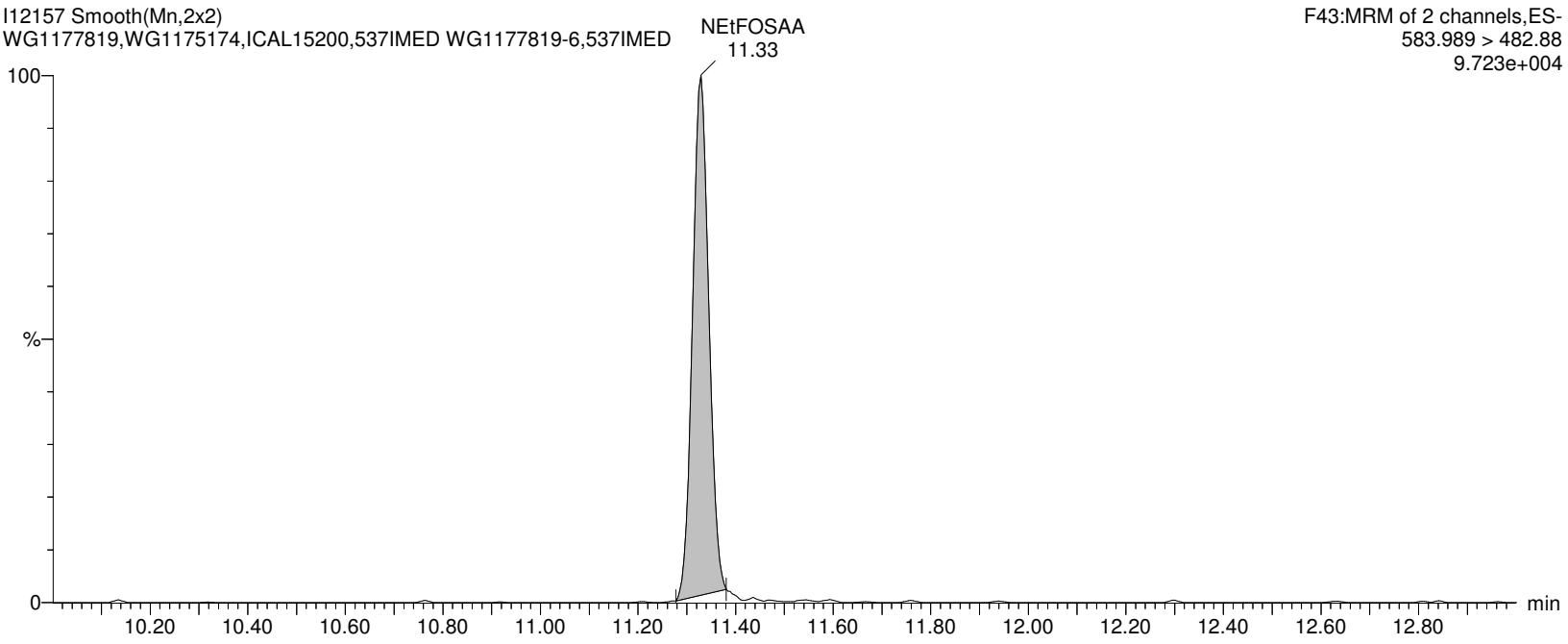

all concentration units in (ng/mL)

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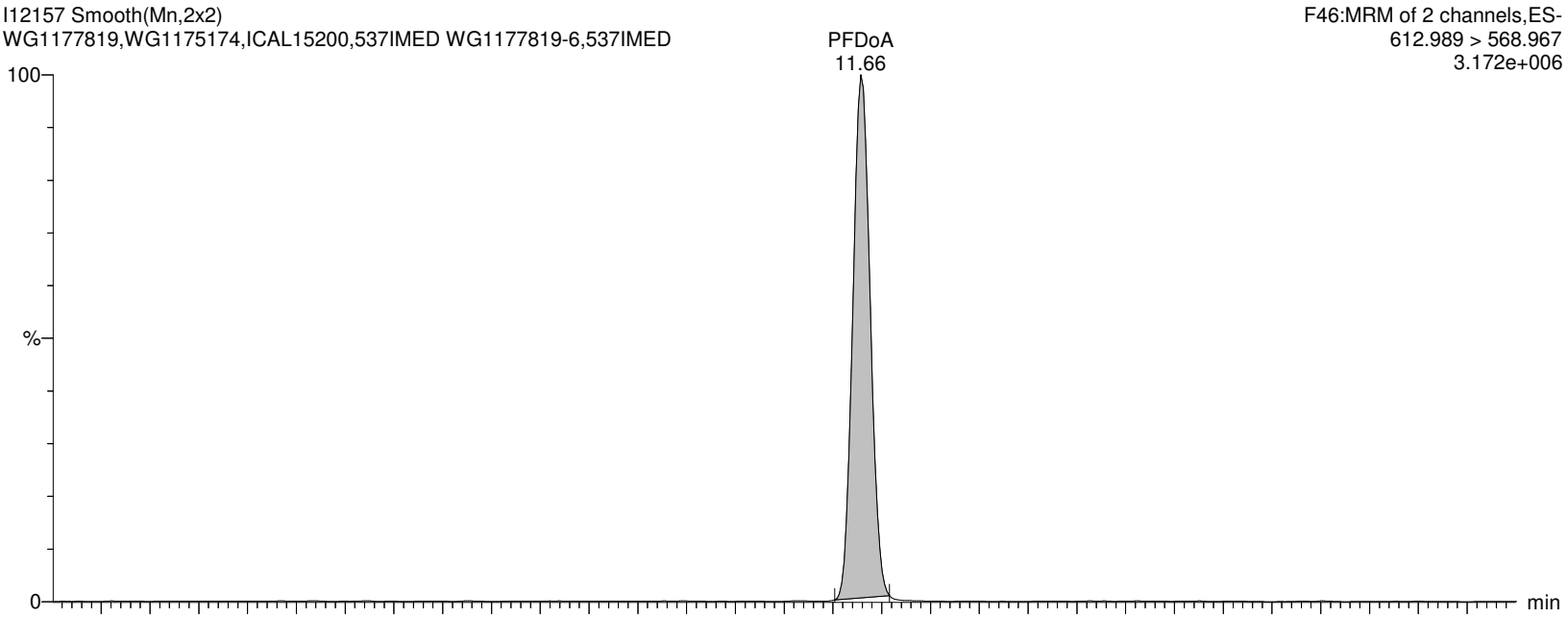
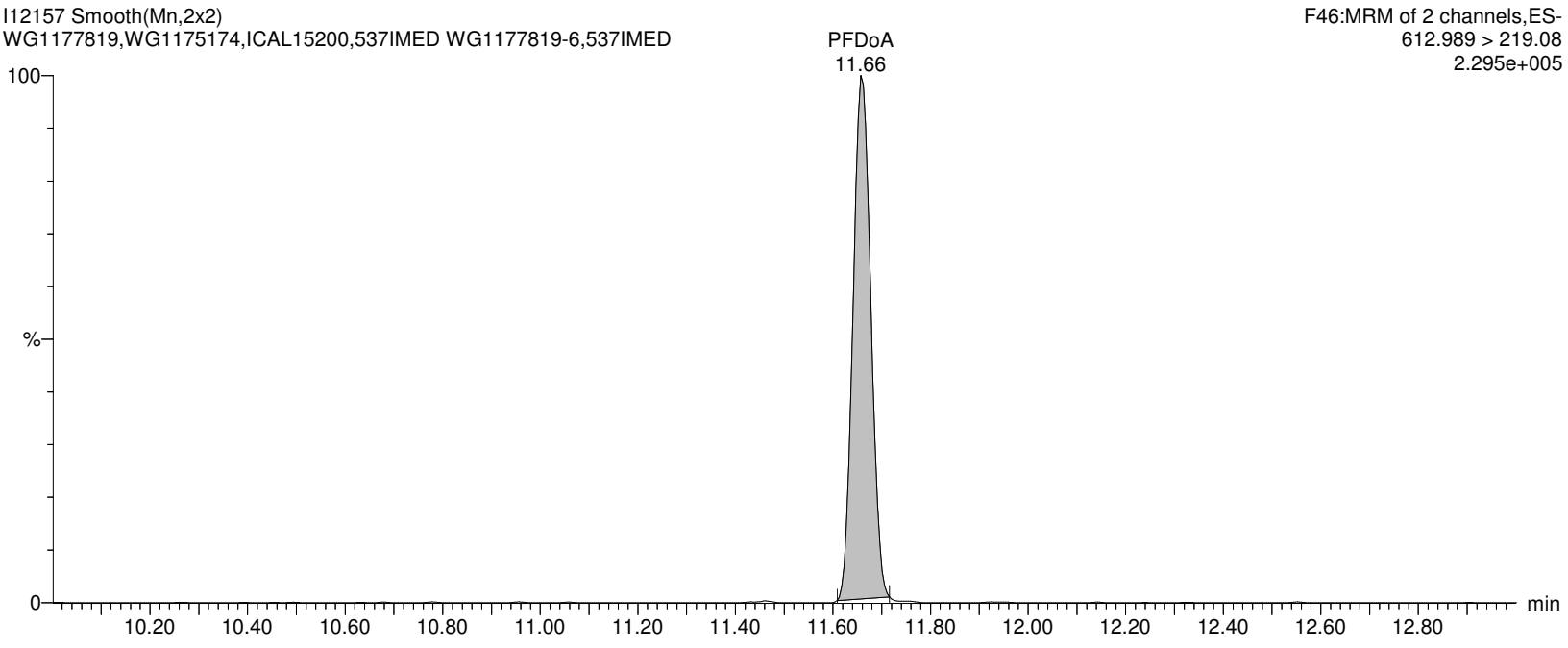
PFDoA





all concentration units in (ng/mL)

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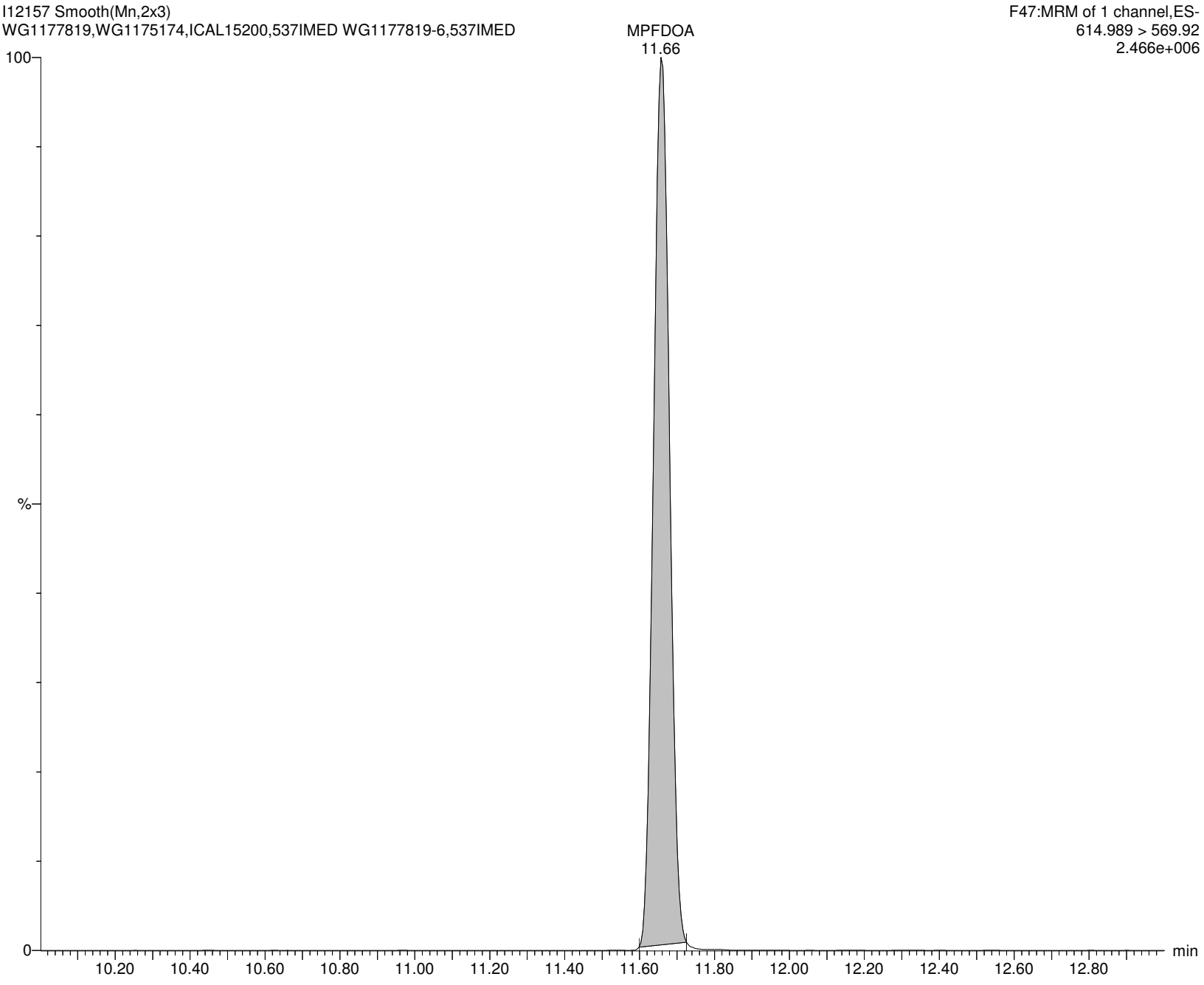

all concentration units in (ng/mL)

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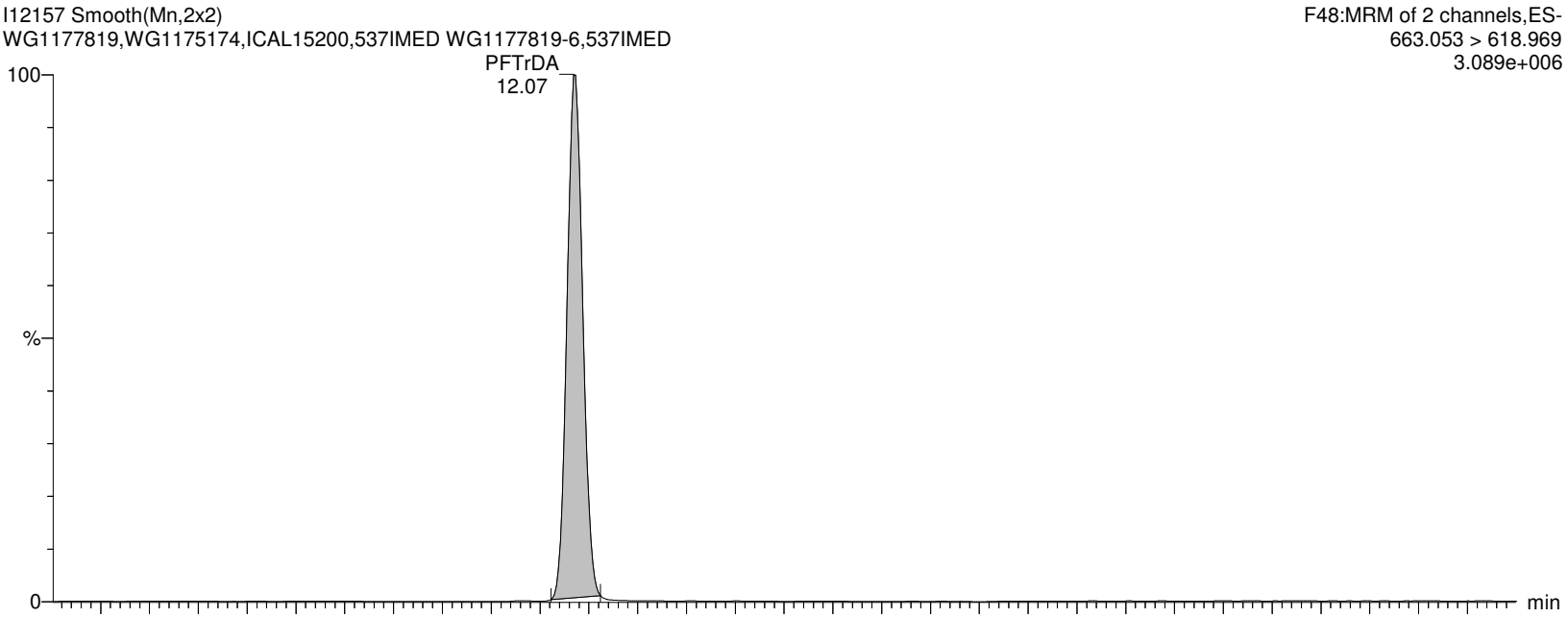

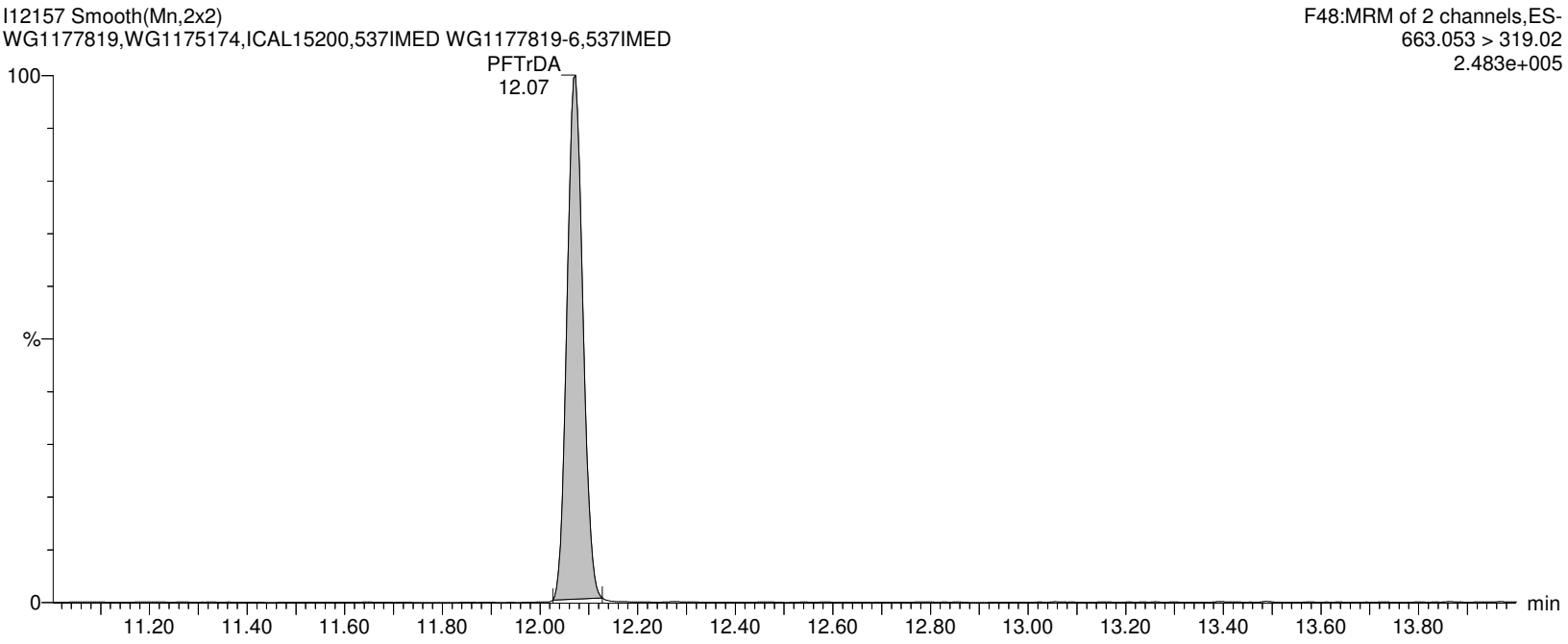

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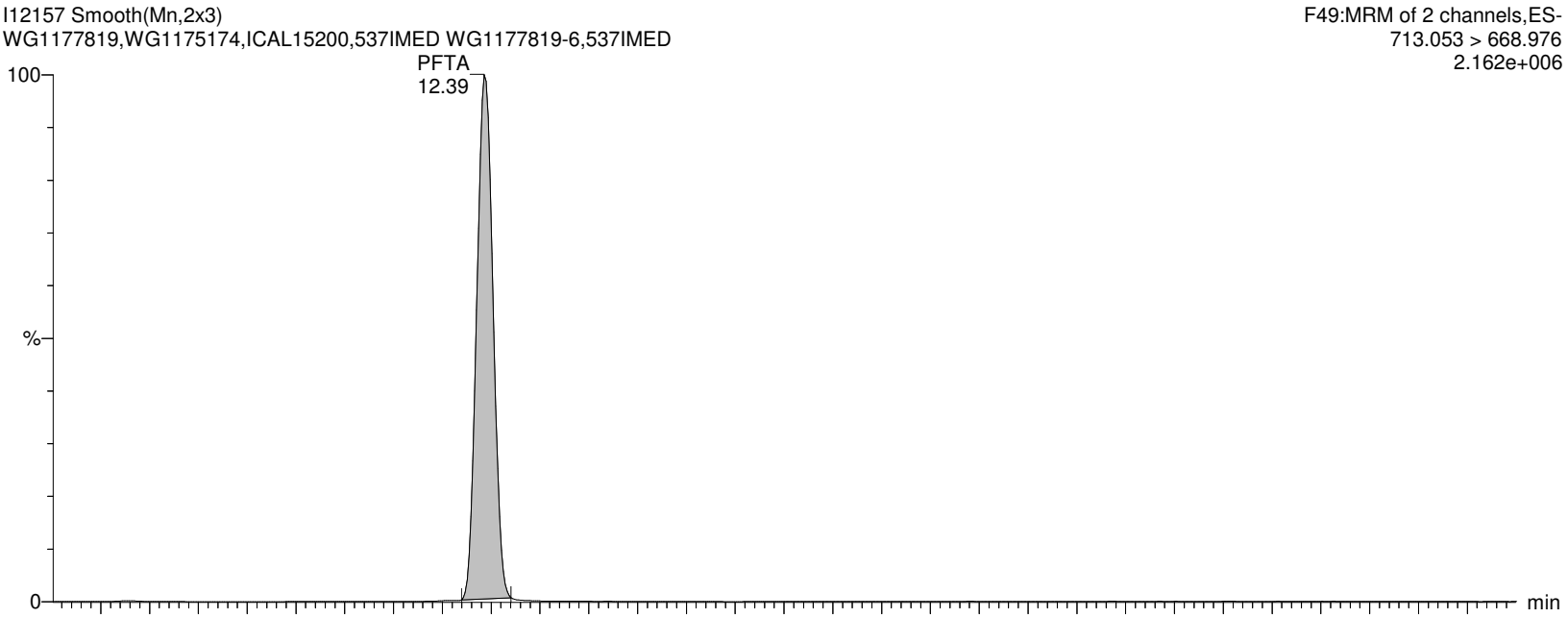

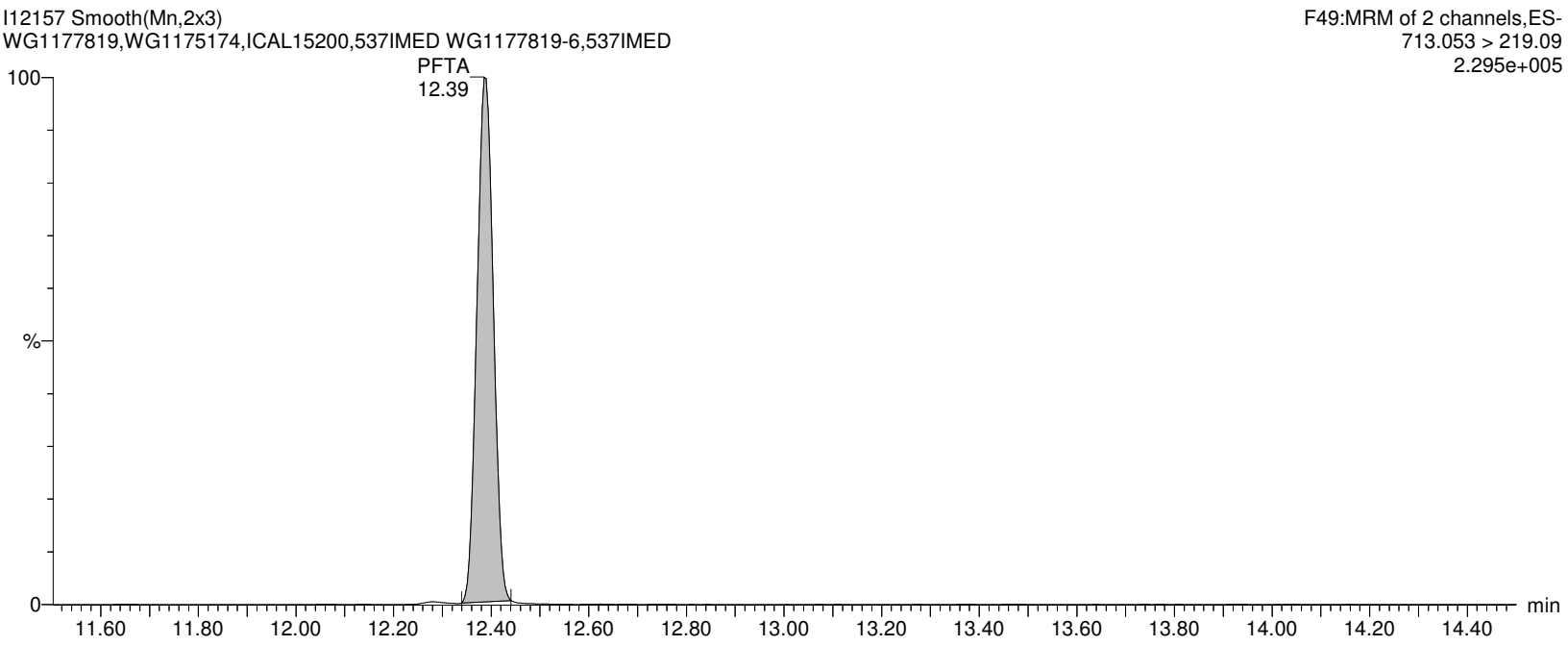

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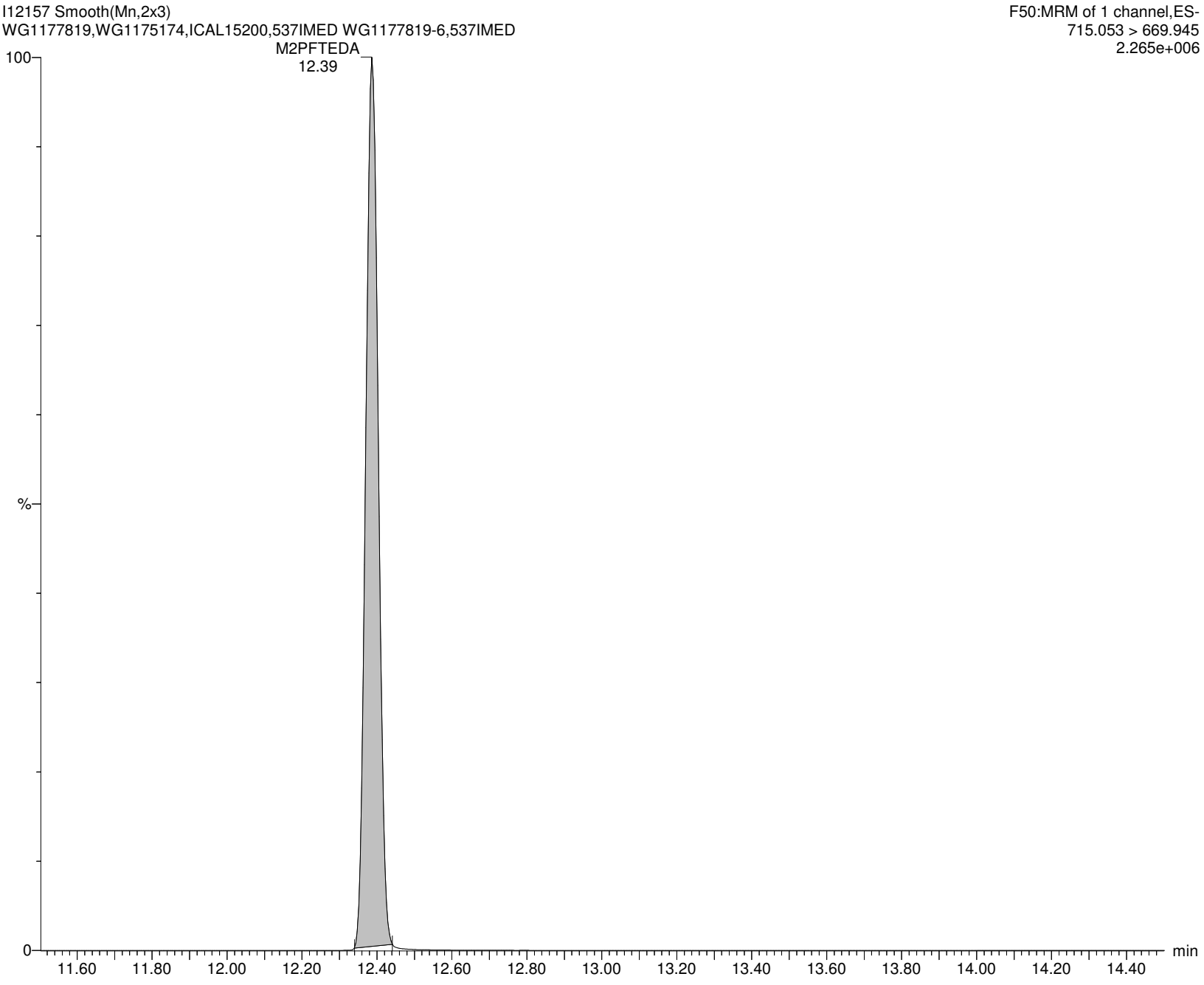

all concentration units in (ng/mL)

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Printed: Monday, November 12, 2018 13:07:16 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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Time: 10:43:44
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	3190		0.489		na	97.8
2	M3PFBA	INT STD	2.16	215.926 > 172.122	81305		8.783		na	87.8
3	MPFBA	INT STD	2.16	216.926 > 172.137	74597		9.659		na	96.6
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	4561		0.502		na	100.3
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	96479		9.680		na	96.8
6	PFBS	375-73-5	5.80	298.989 > 80.295	739		0.440		na	99.4
7	M3PFBS	INT STD	5.81	301.989 > 80.254	18963		7.926		na	79.3
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	355		0.482	1.84	NO	103.1
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	7264		4.894		na	48.9
10	PFHxA	307-24-4	7.07	312.989 > 269.028	6160		0.507		na	101.3
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	125300		9.182		na	91.8
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	987		0.427	2.13	NO	90.9
13	PFHpA	375-85-9	8.34	362.926 > 319.014	8068		0.502	5.21	NO	100.3
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	163397		10.183		na	101.8
15	br-PFHxS	355-46-4	8.19	398.926 > 80.295	135		0.062	1.36	YES	73.2
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	780		0.414	1.63	NO	112.0
17	PFHxS	355-46-4		398.926 > 80.295	915		0.476		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	13346		10.043		na	100.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	7980		0.544	9.30	NO	108.8
21	M2PFOA	INT STD	9.27	415.032 > 369.968	189418		10.032		na	100.3
22	PFOA	335-67-1		412.989 > 368.9	7980		0.544		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	150412		9.847		na	98.5
24	6:2FTS	27619-97-2	9.22	426.989 > 406.921	276		0.478		na	100.7
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	5747		4.666		na	46.7
26	PFHpS	375-92-8	9.36	448.926 > 80.257	453		0.434	0.86	NO	91.5
27	PFNA	375-95-1	10.02	462.989 > 418.931	6035		0.514	4.79	NO	102.8
28	M9PFNA	INT STD	10.02	472.053 > 426.947	140514		9.223		na	92.2
29	br-PFOS	1763-23-1	9.89	498.989 > 80.294	219		0.089	4.81	YES	88.8
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	670		0.381	1.89	YES	104.3
31	PFOS	1763-23-1		498.989 > 80.294	889		0.470		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	19193		11.848		na	118.5
33	M8PFOS	INT STD	10.07	507.053 > 80.294	16847		9.413		na	94.1
34	PFDA	335-76-2	10.65	513.053 > 468.906	5649		0.493	6.26	NO	98.7
35	M2PFDA	INT STD	10.65	515.053 > 469.934	145610		9.795		na	97.9
36	M6PFDA	INT STD	10.65	519.053 > 473.931	129093		9.819		na	98.2
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	269		0.637		na	132.7
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	3406		4.708		na	47.1
39	PFNS	68259-12-1	10.68	548.989 > 80.249	704		0.582	1.54	NO	121.2

all concentration units in (ng/mL)

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ID: WG1177819-7,537ILOW
Name: I12166
Date: 10-Nov-2018
Time: 10:43:44
Description: WG1177819,WG1175174,ICAL15200,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	11597		8.183		na	81.8
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	563		0.483		na	96.6
42	PFUnA	2058-94-8	11.18	562.989 > 518.903	5817		0.498	7.13	NO	99.6
43	M7-PFUDA	INT STD	11.18	570.053 > 524.923	117516		10.679		na	106.8
44	PFDS	335-77-3	11.20	598.926 > 80.314	526		0.508	1.10	NO	105.3
45	FOSA	754-91-6	11.10	497.989 > 78.245	2141		0.428		na	85.7
46	M8FOSA	INT STD	11.10	506.053 > 78.286	51088		10.892		na	108.9
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	10210		7.468		na	74.7
48	NEtFOSAA	2991-50-6	11.32	583.989 > 418.927	504		0.483	3.94	NO	96.6
49	PFDoA	307-55-1	11.66	612.989 > 568.967	6042		0.566	16.06	YES	113.1
50	MPFDOA	INT STD	11.65	614.989 > 569.92	114552		9.265		na	92.6
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	5249		0.584	12.61	NO	116.9
52	PFTA	376-06-7	12.39	713.053 > 668.976	3793		0.542	9.46	NO	108.5
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	83288		9.095		na	90.9

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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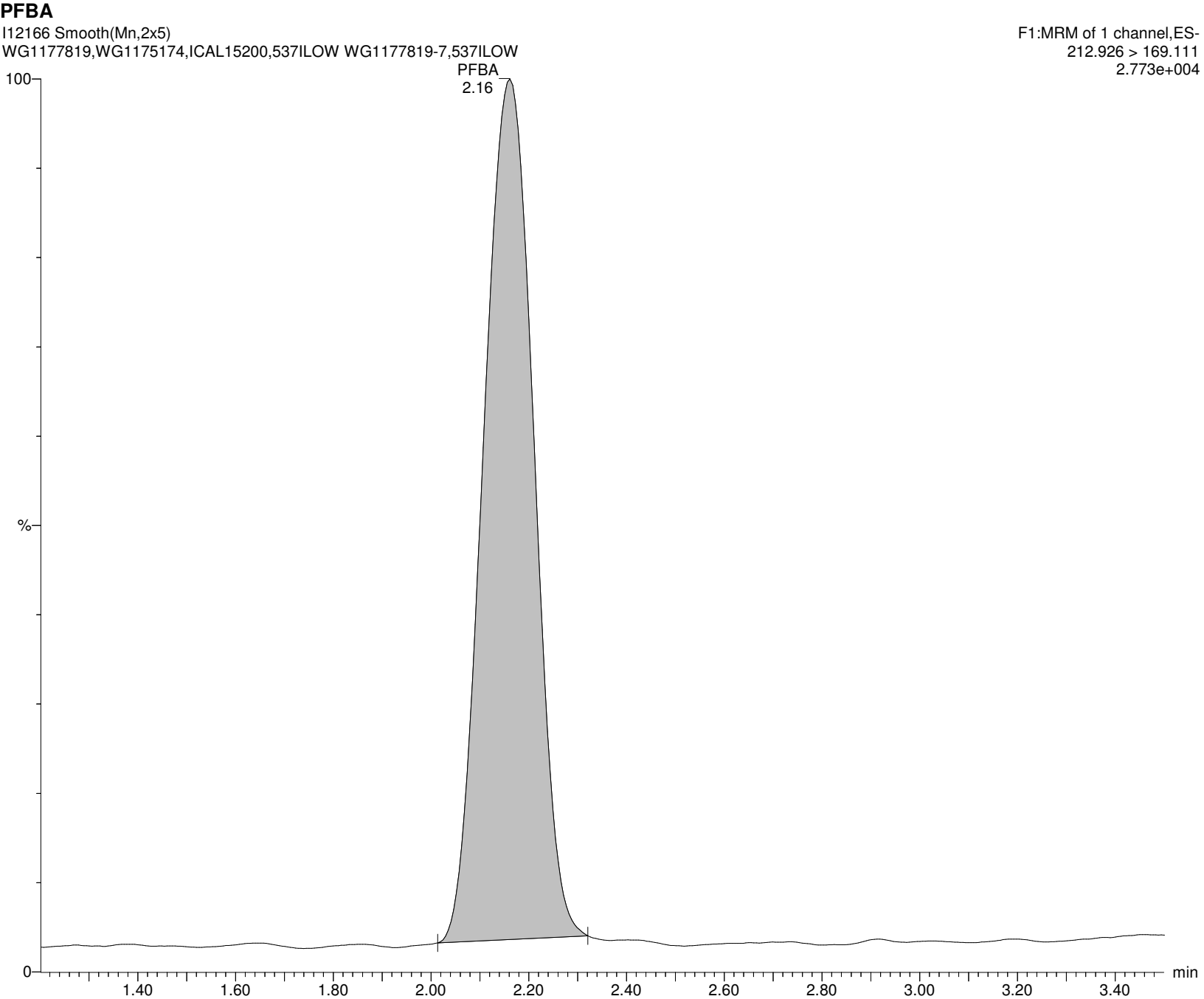

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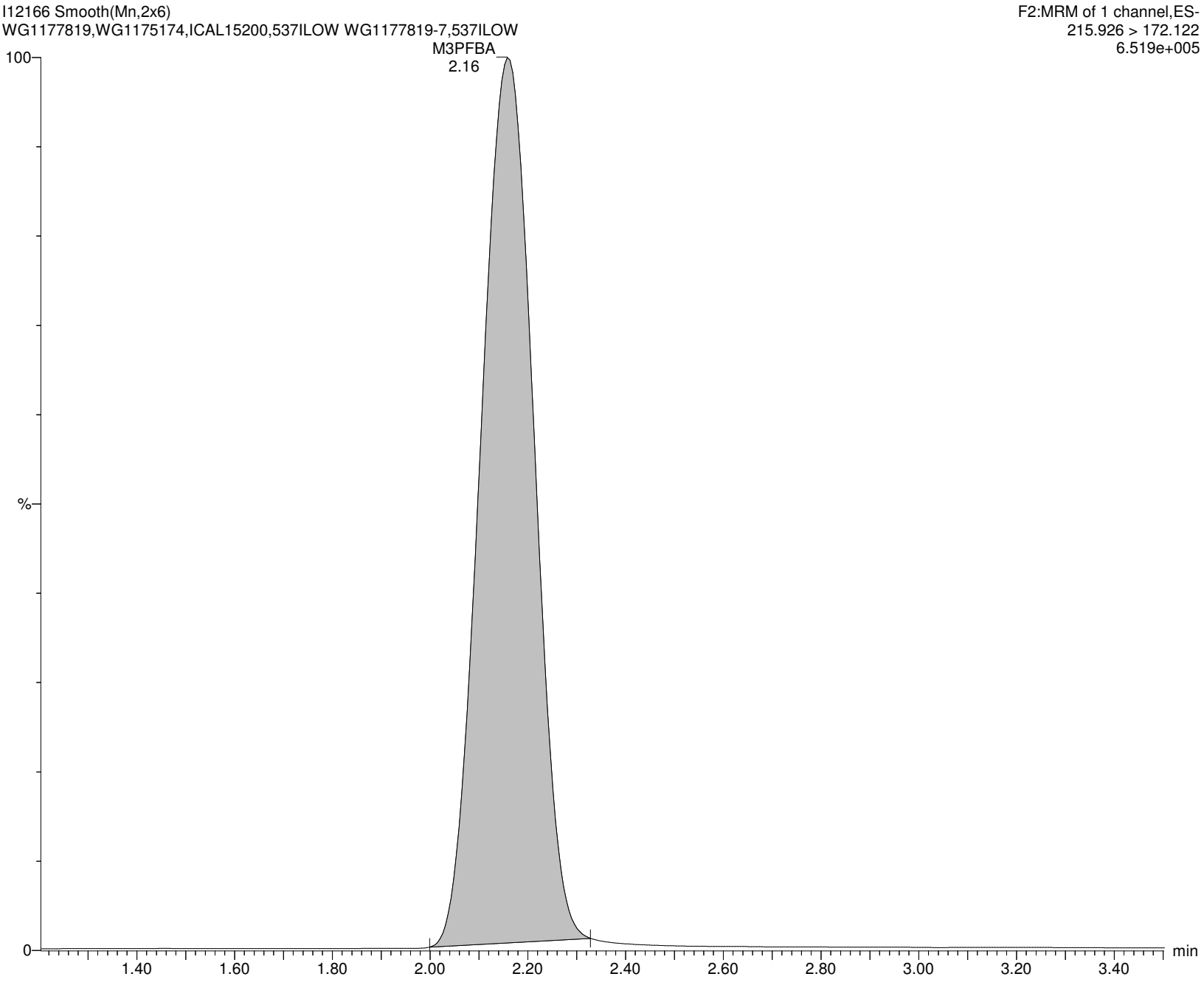

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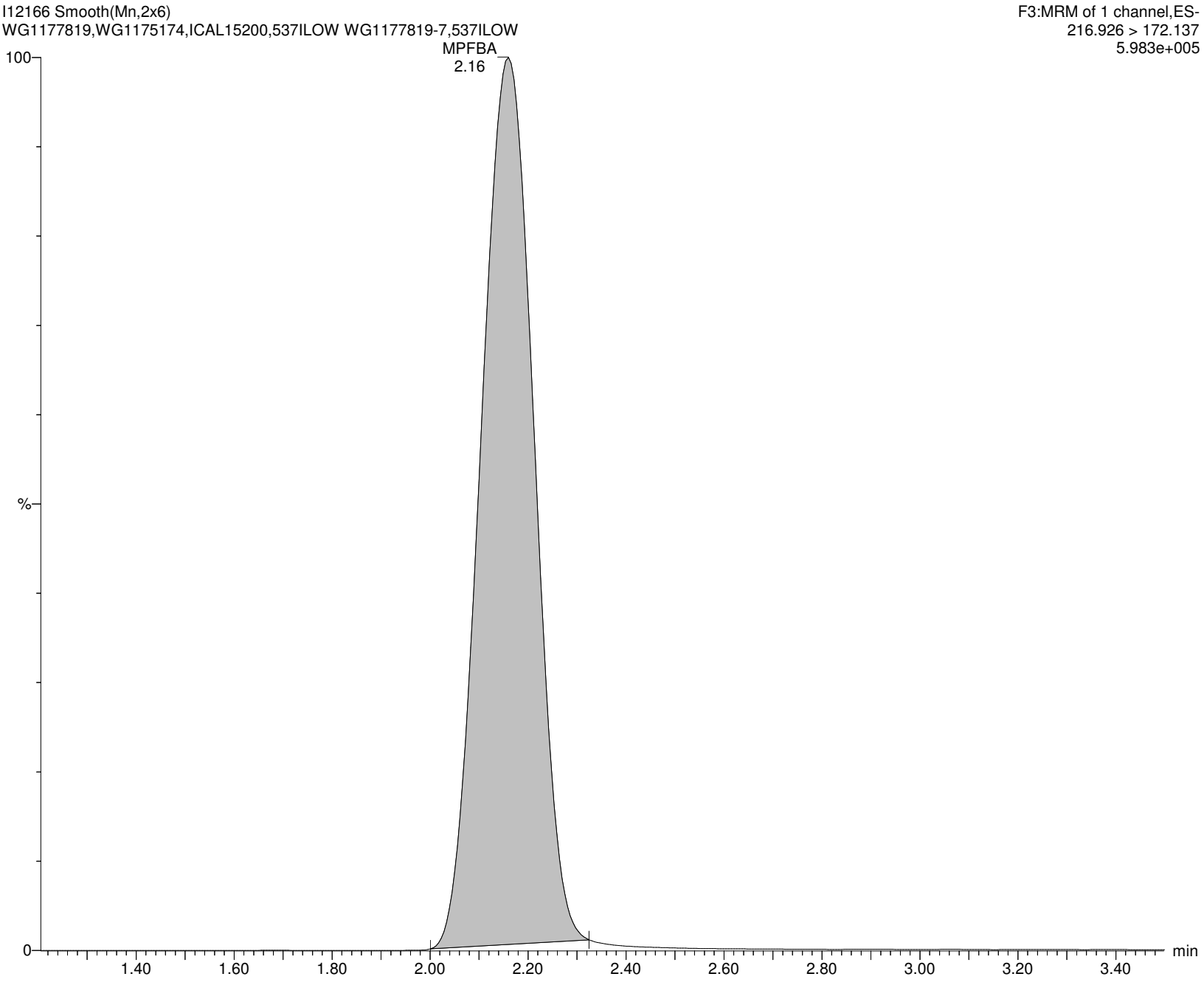

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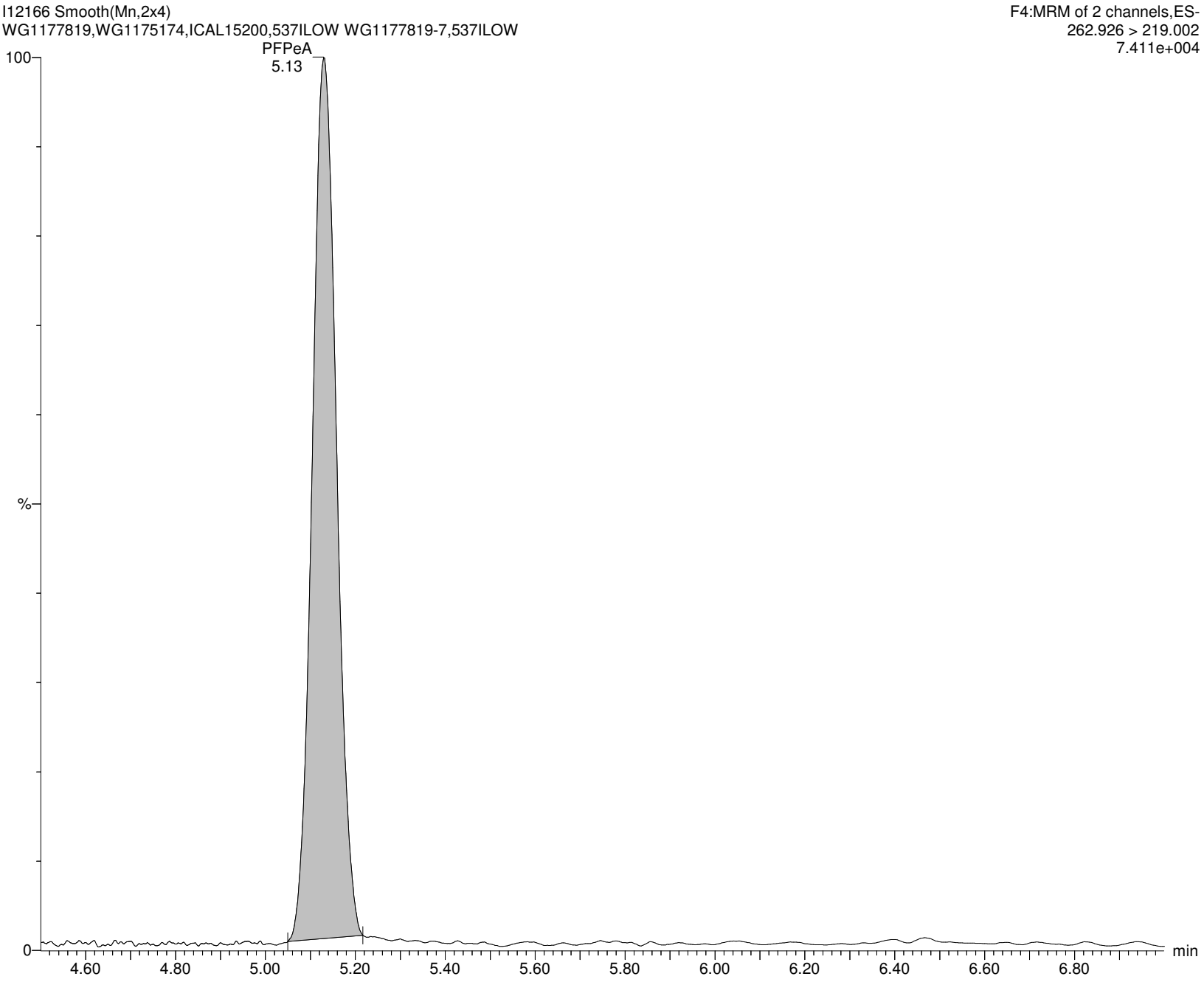

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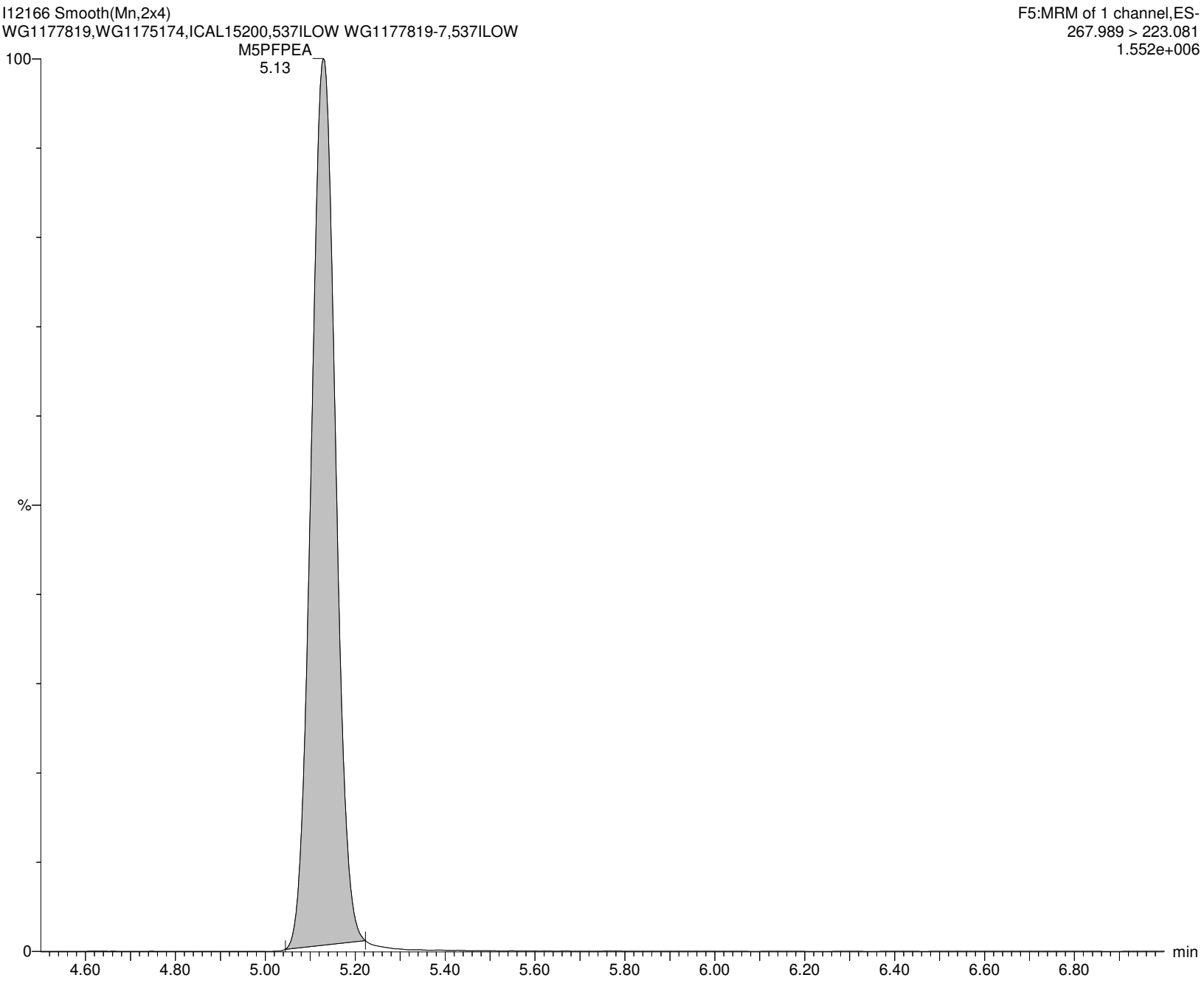

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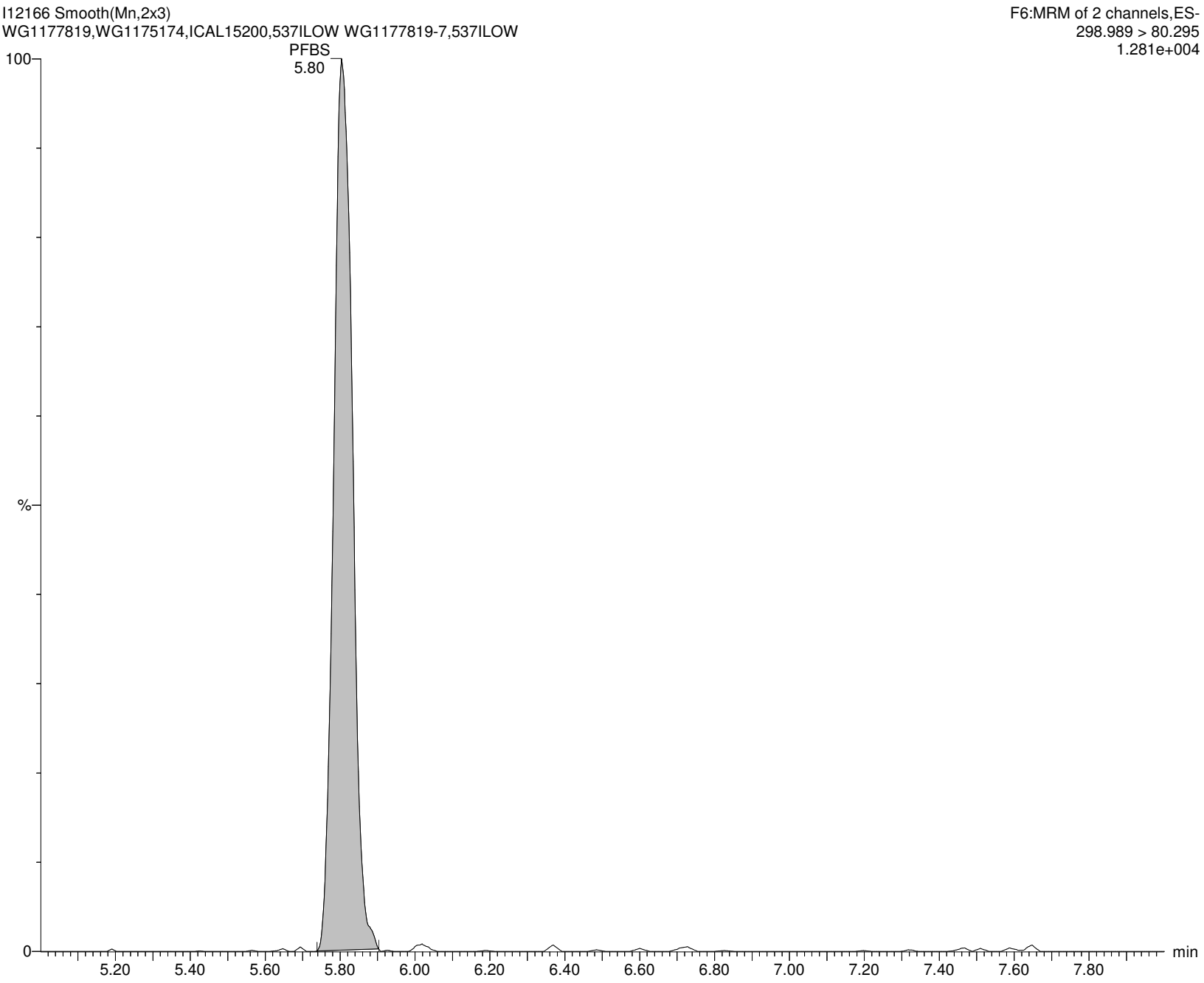
PFBS



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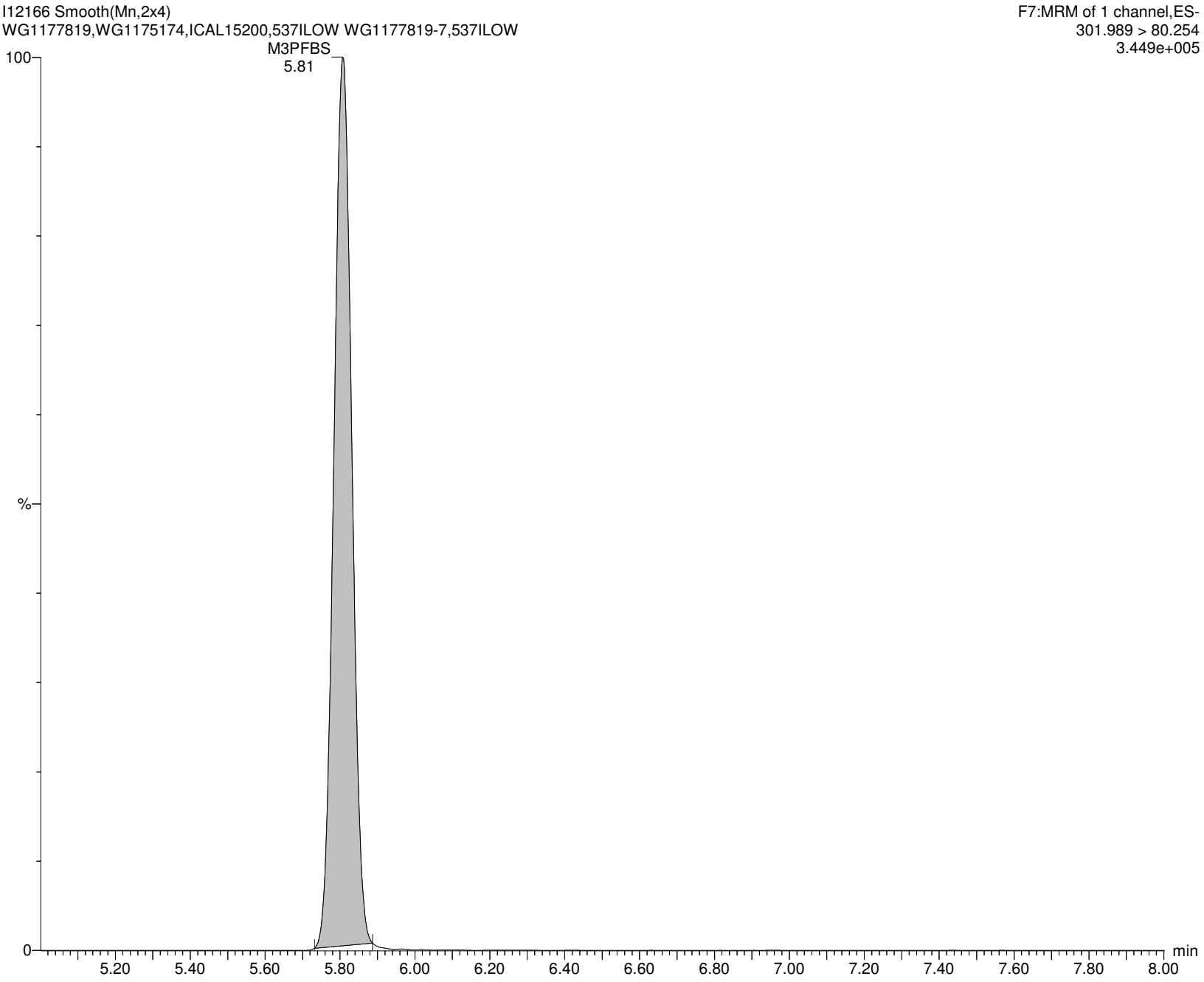

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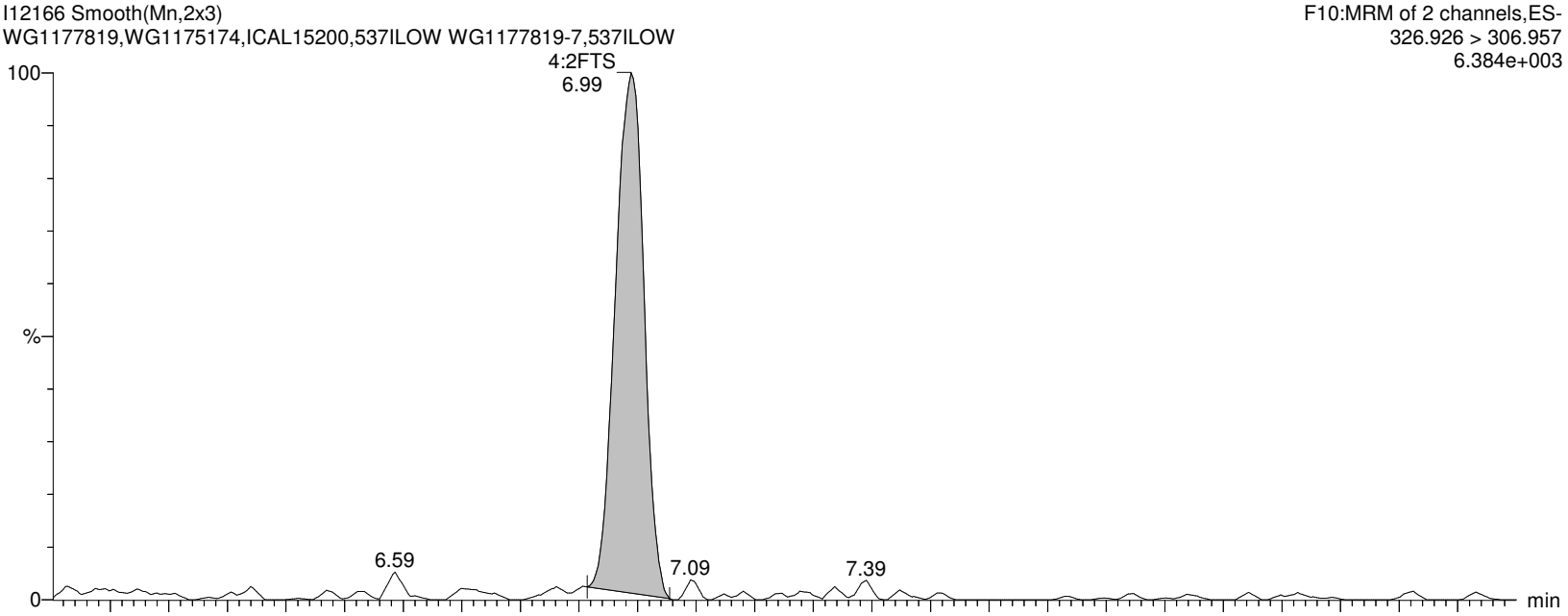
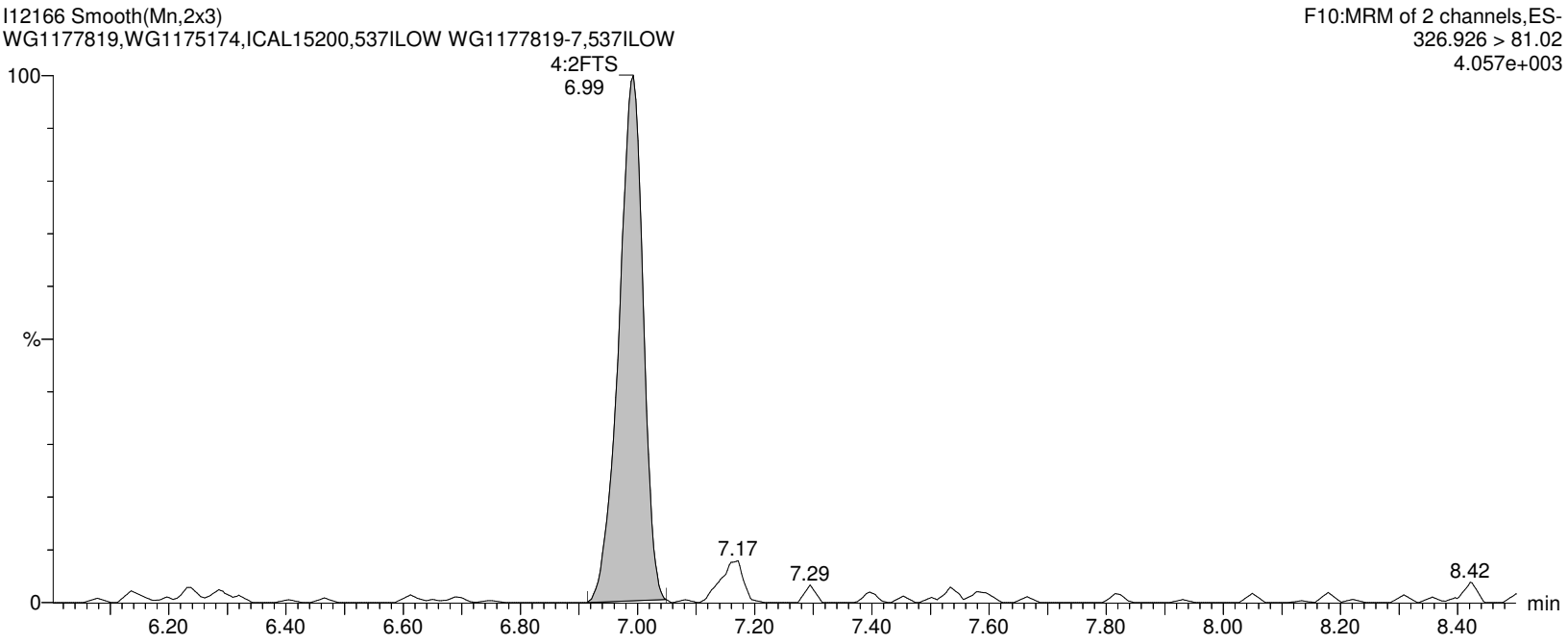
4:2FTS





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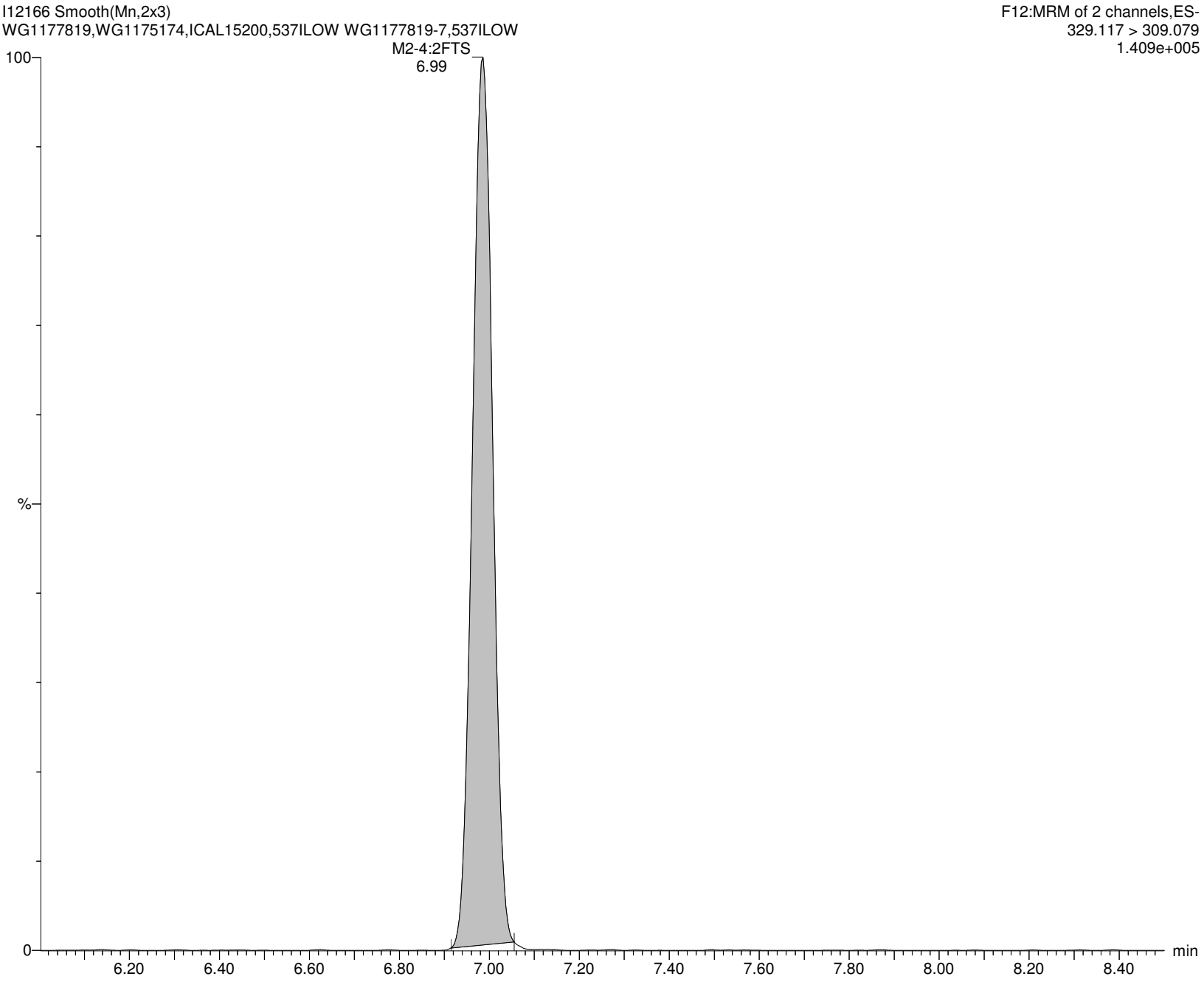

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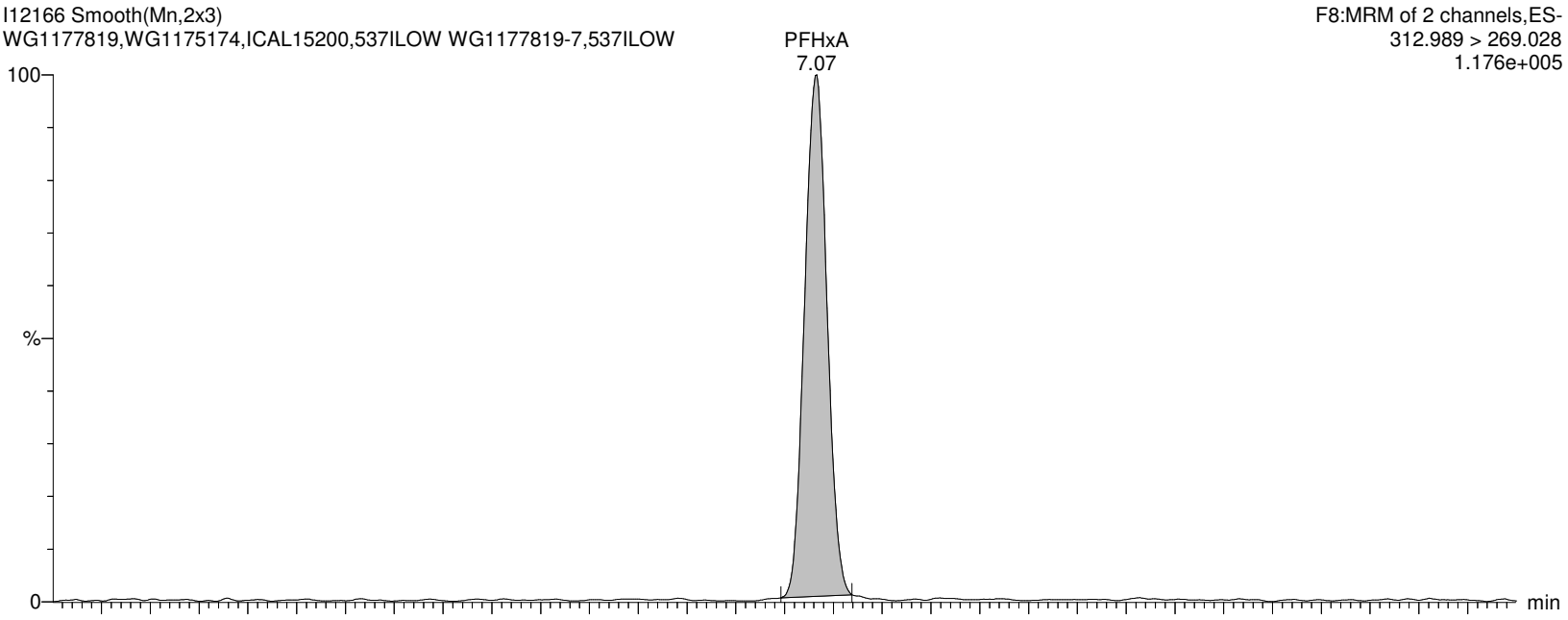
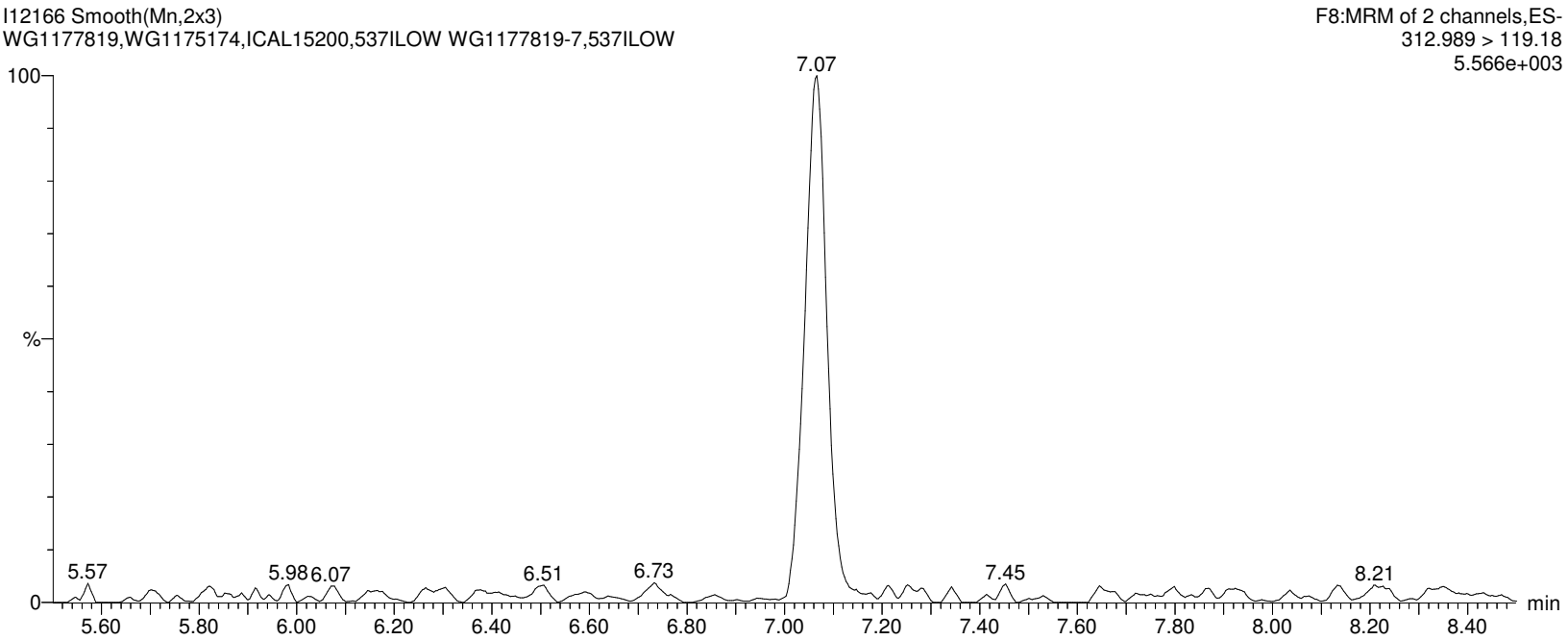
PFHxA





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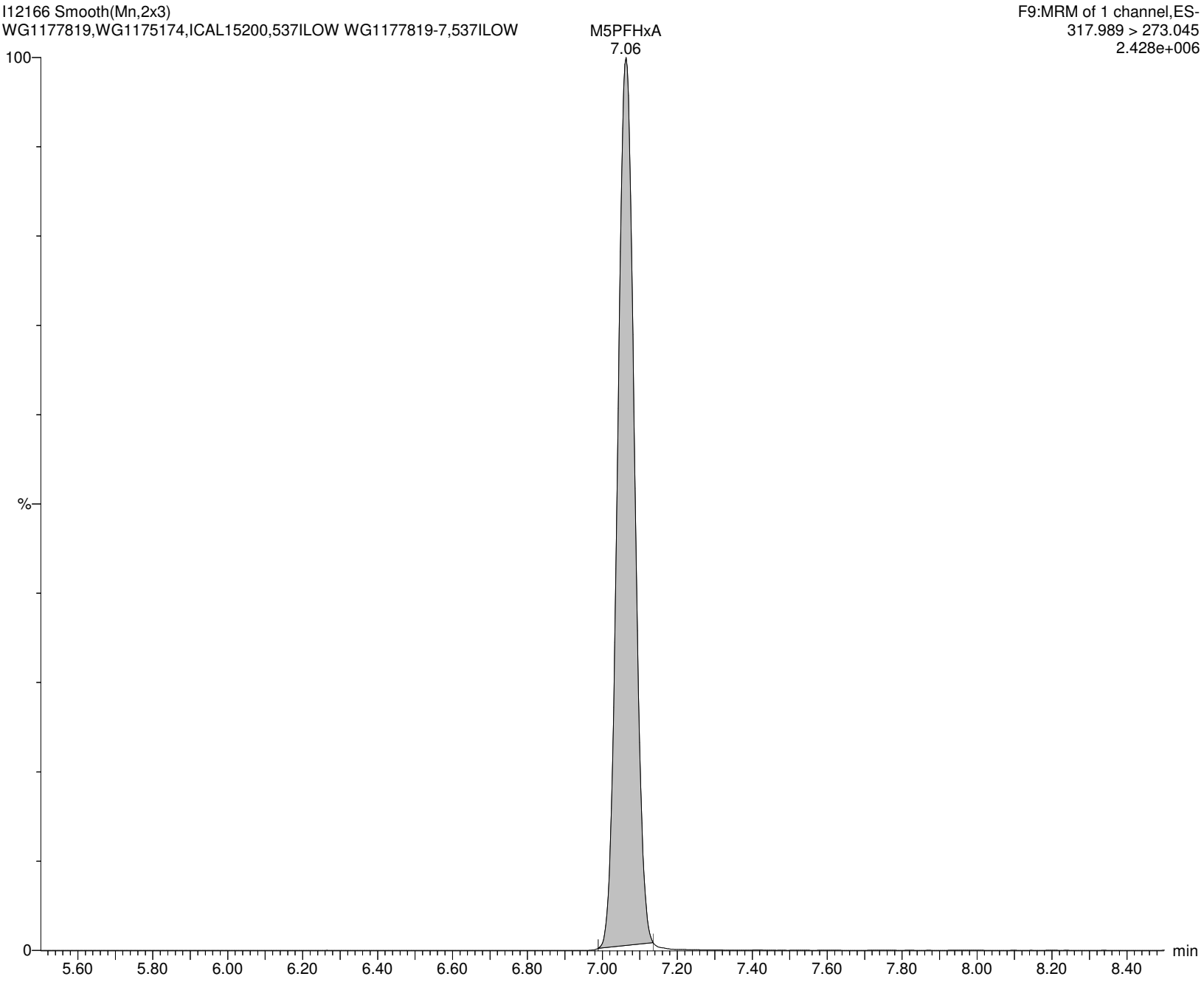

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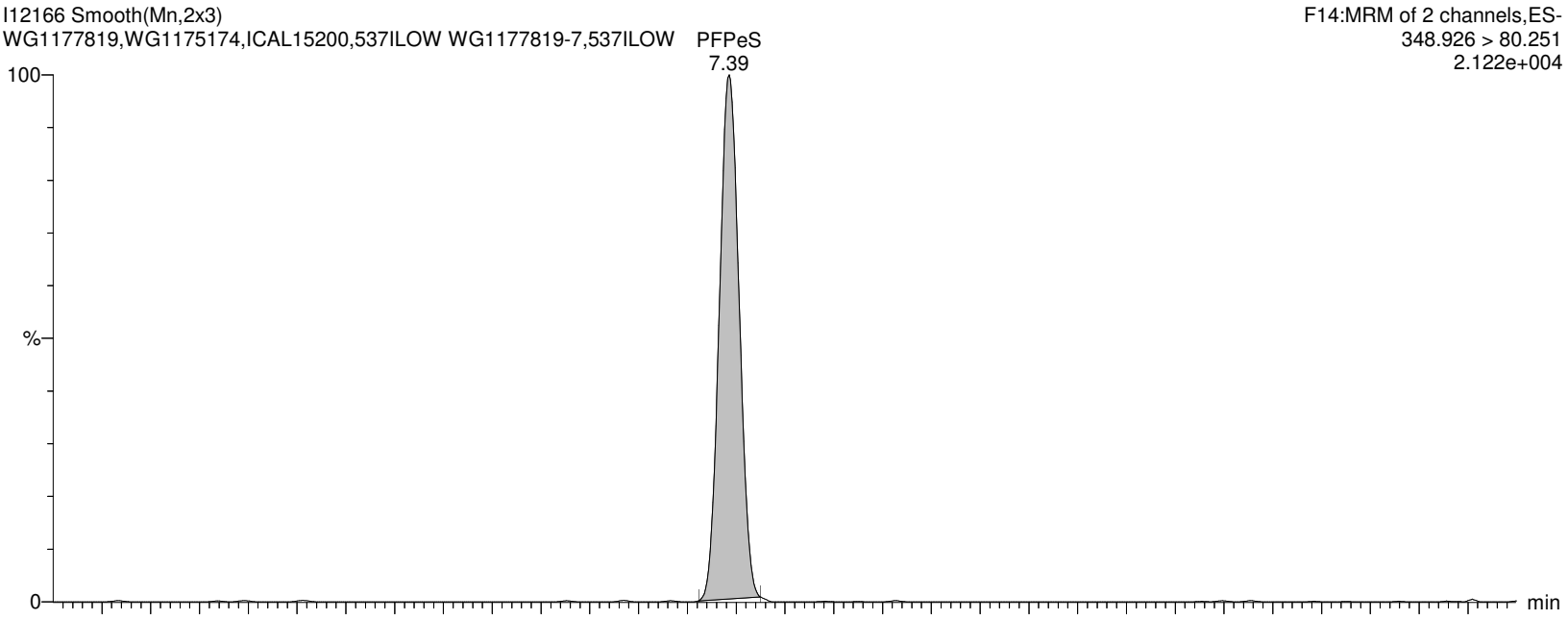

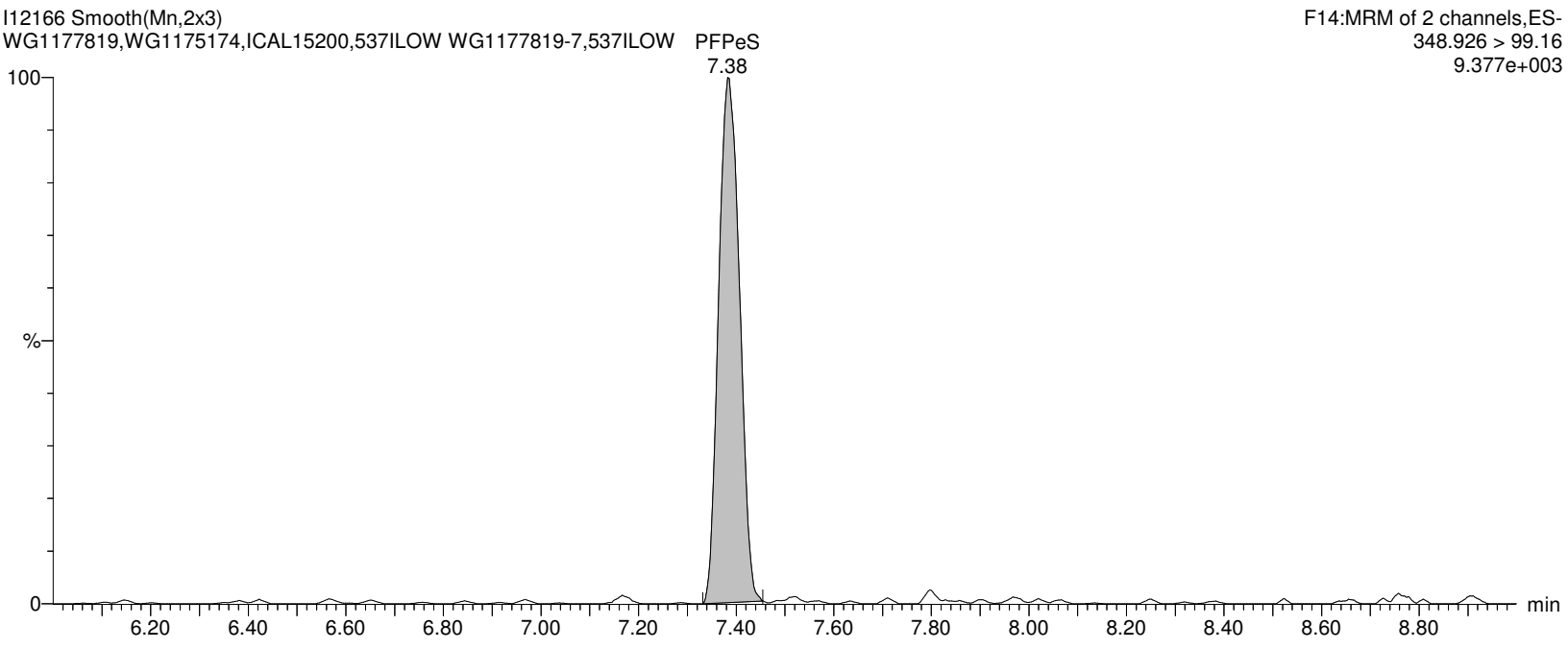

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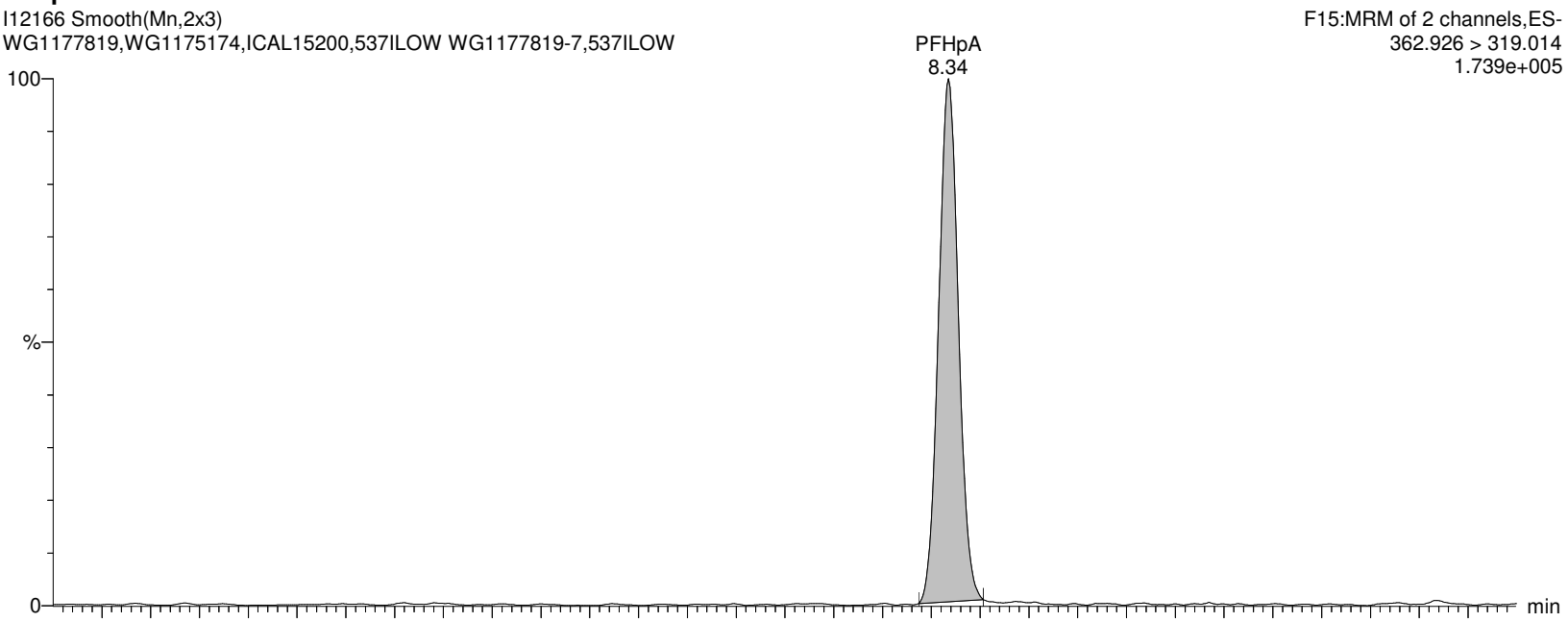

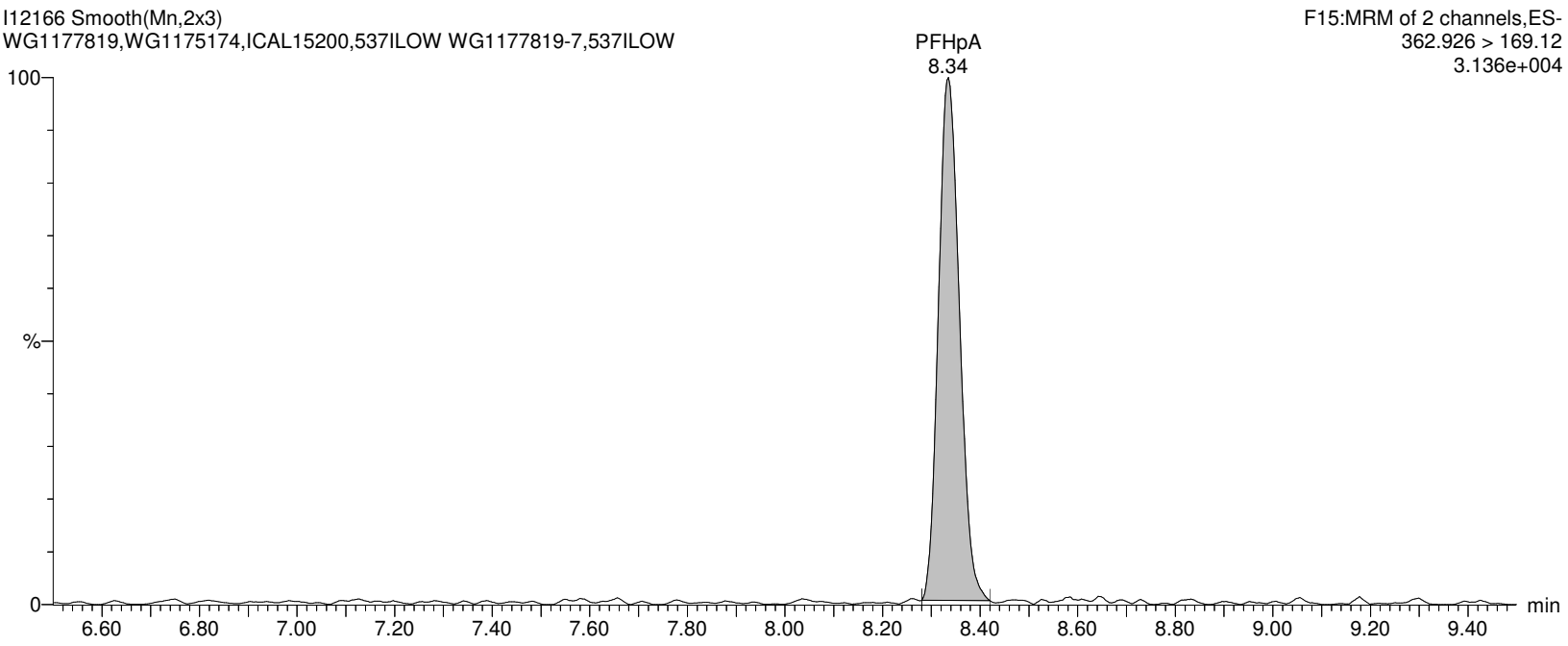

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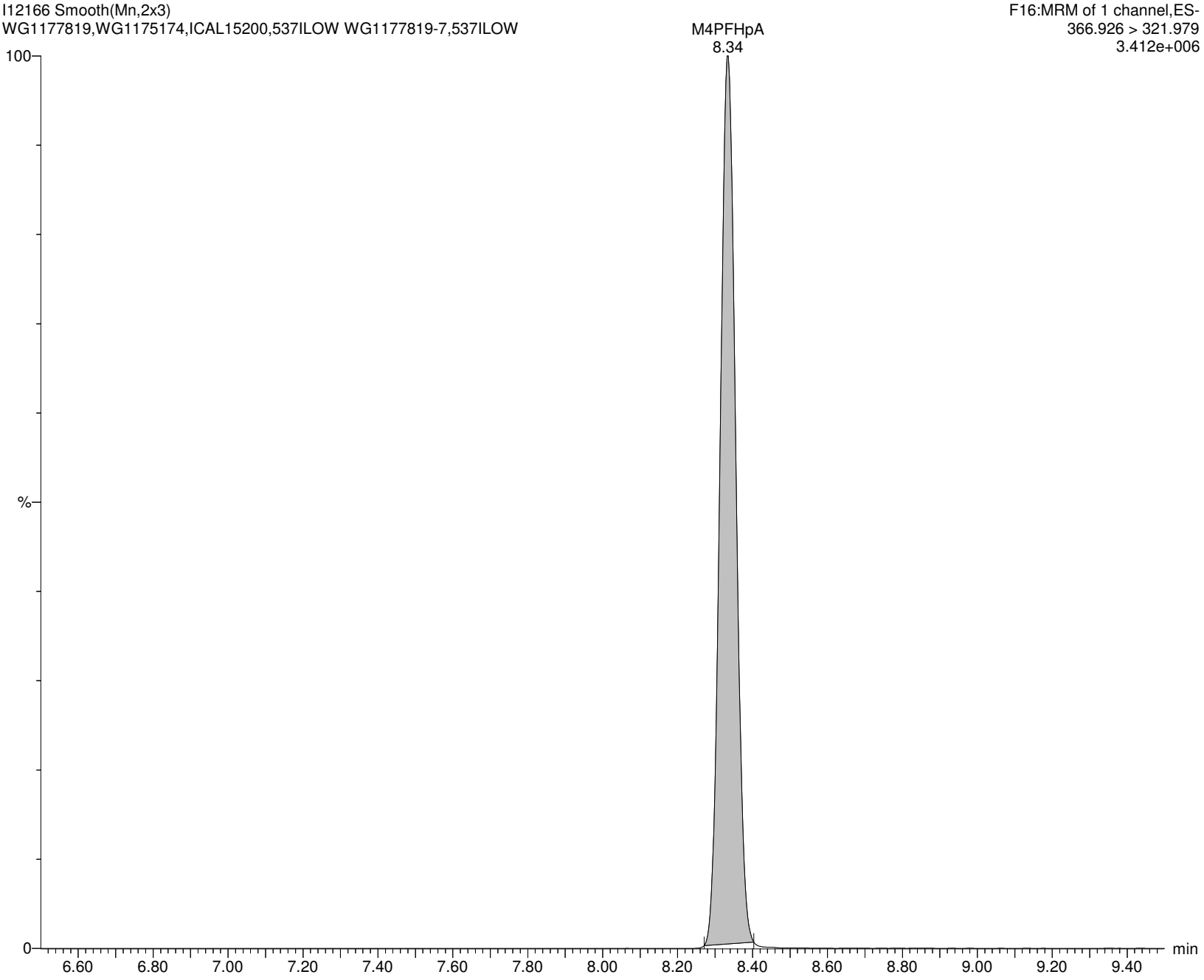
M4PFHpA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:16 Eastern Standard Time

Name: I12166
ID: WG1177819-7,537ILOW
Date: 10-Nov-2018
Time: 10:43:44
Description: WG1177819,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
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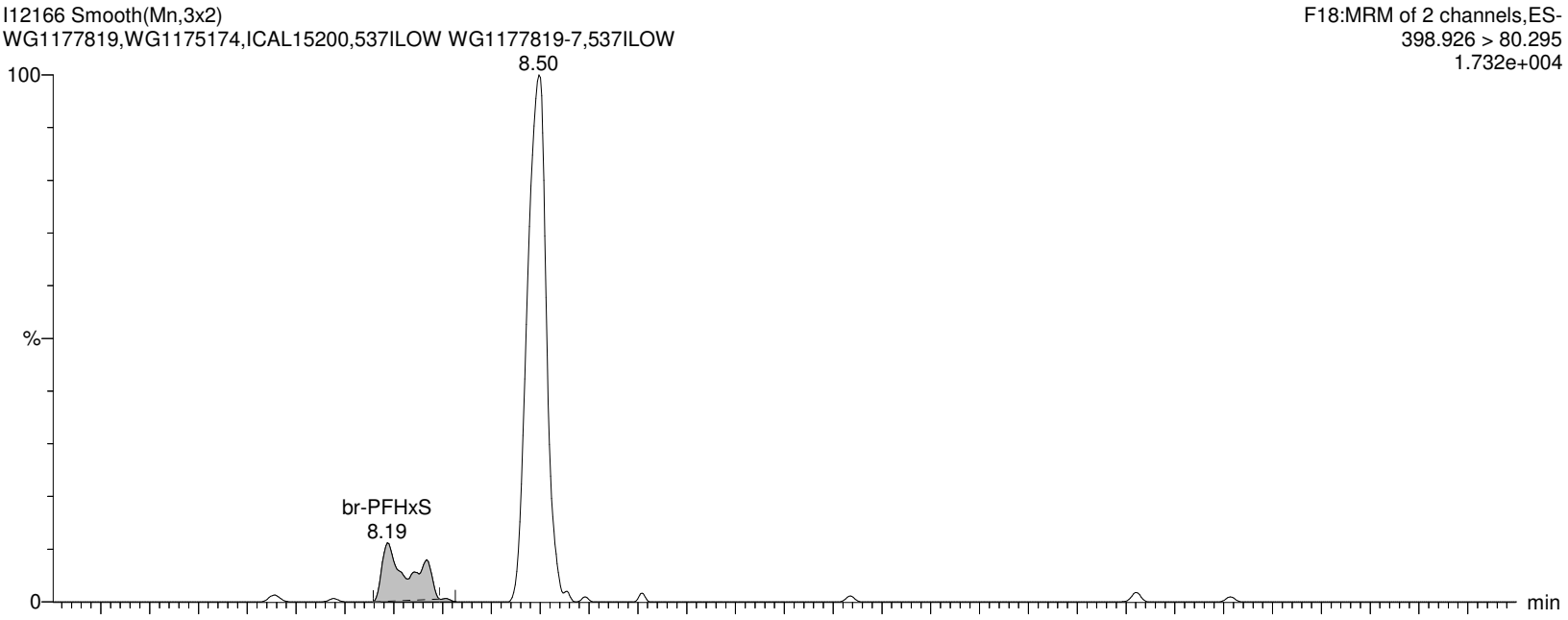

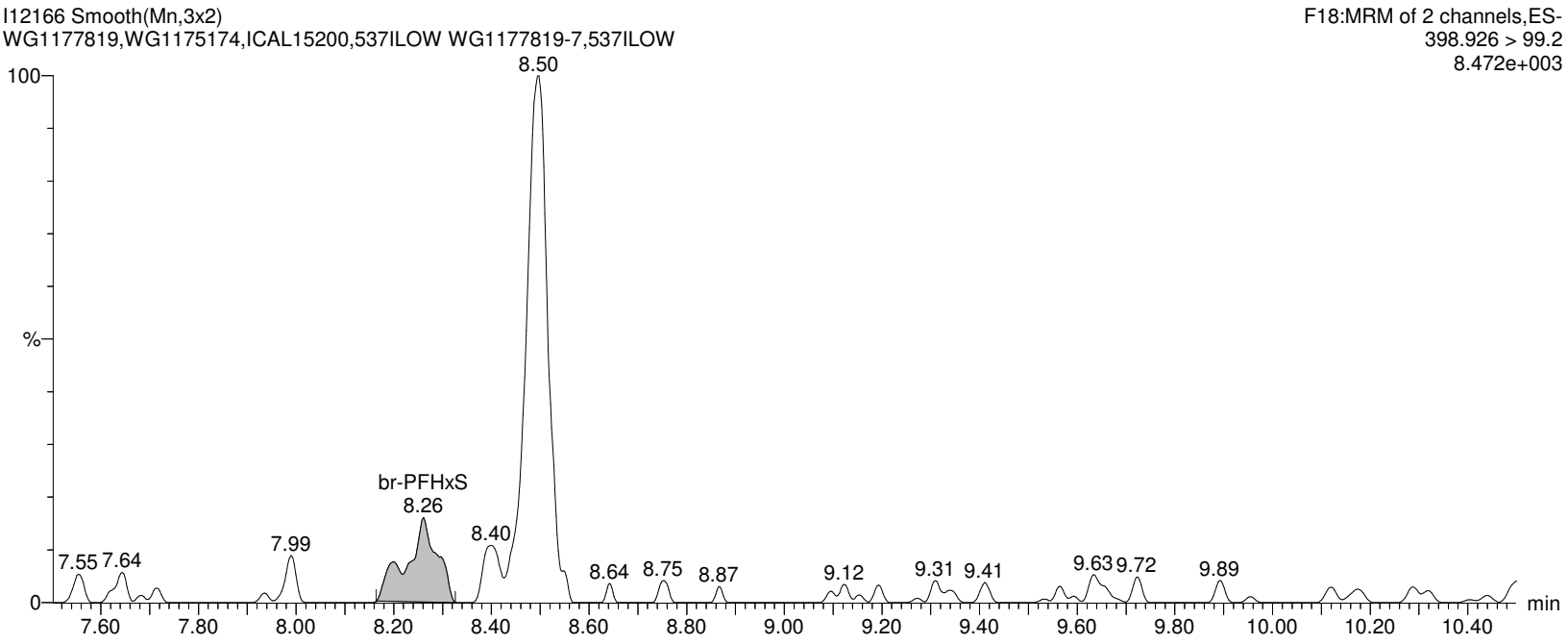

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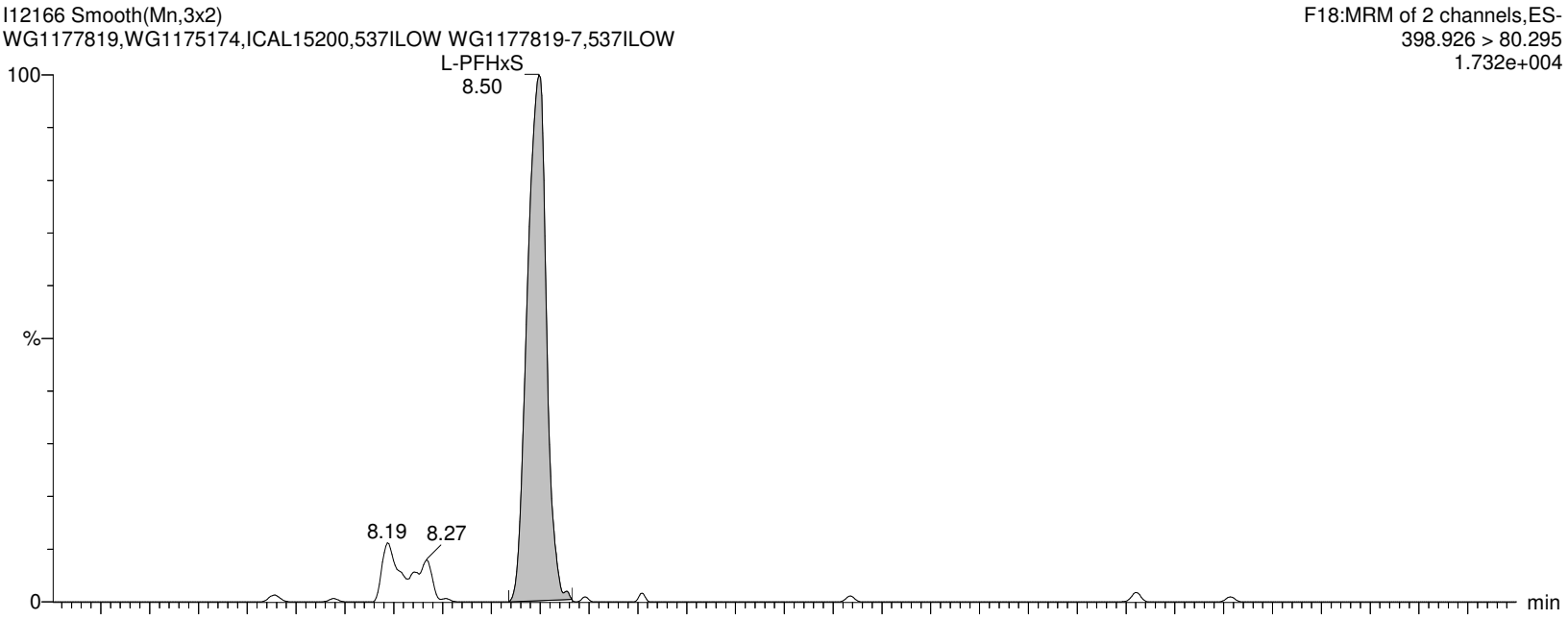

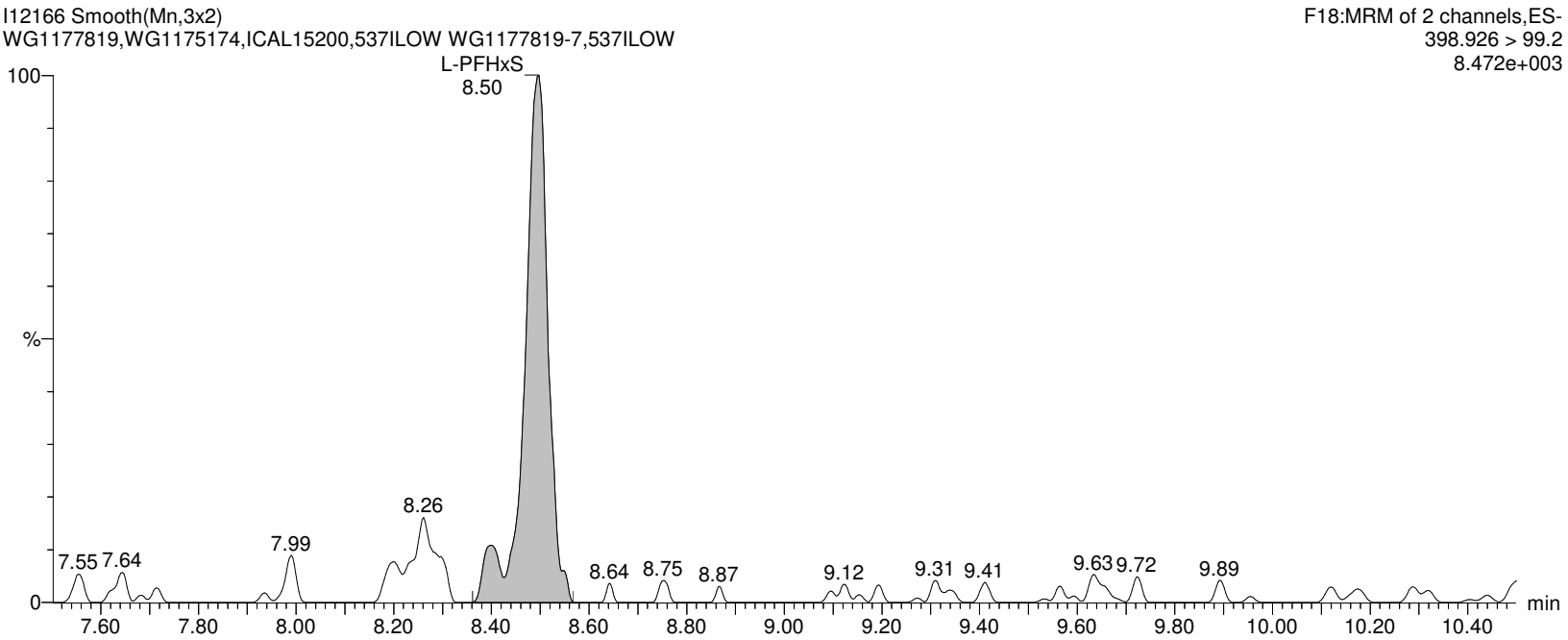

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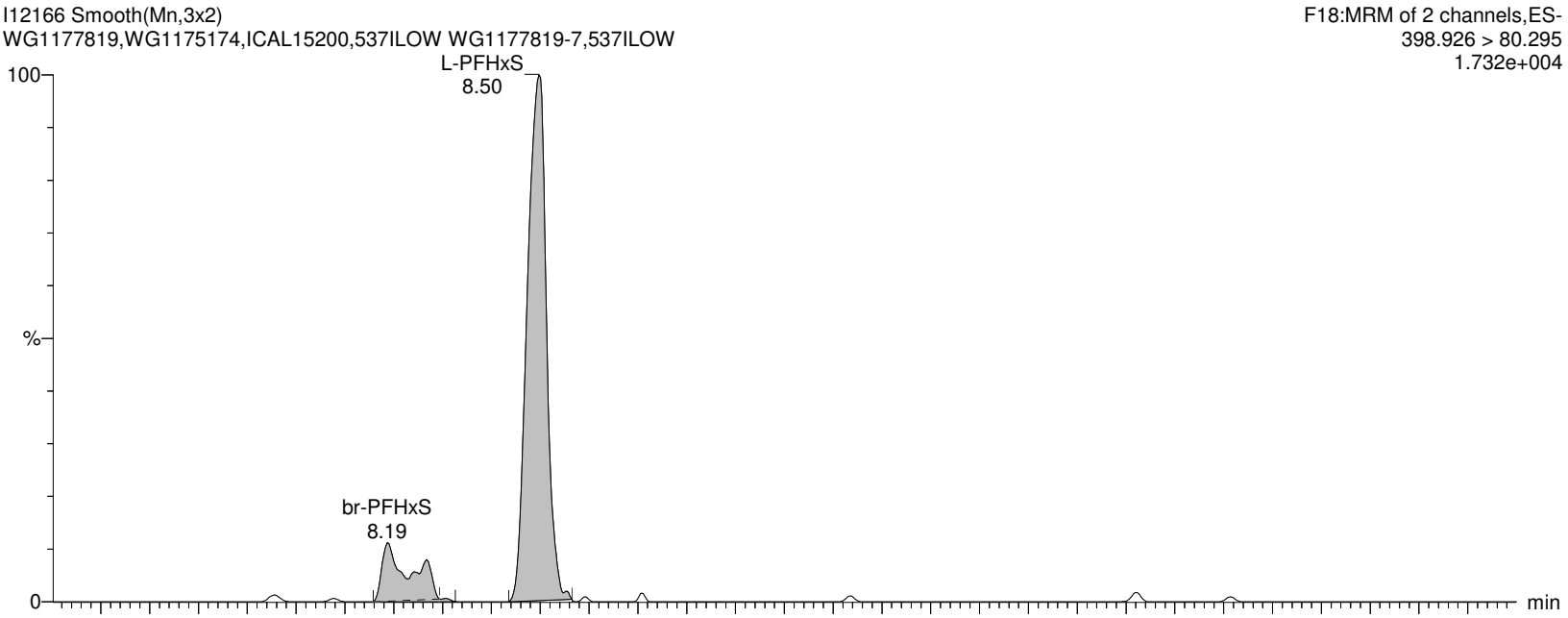

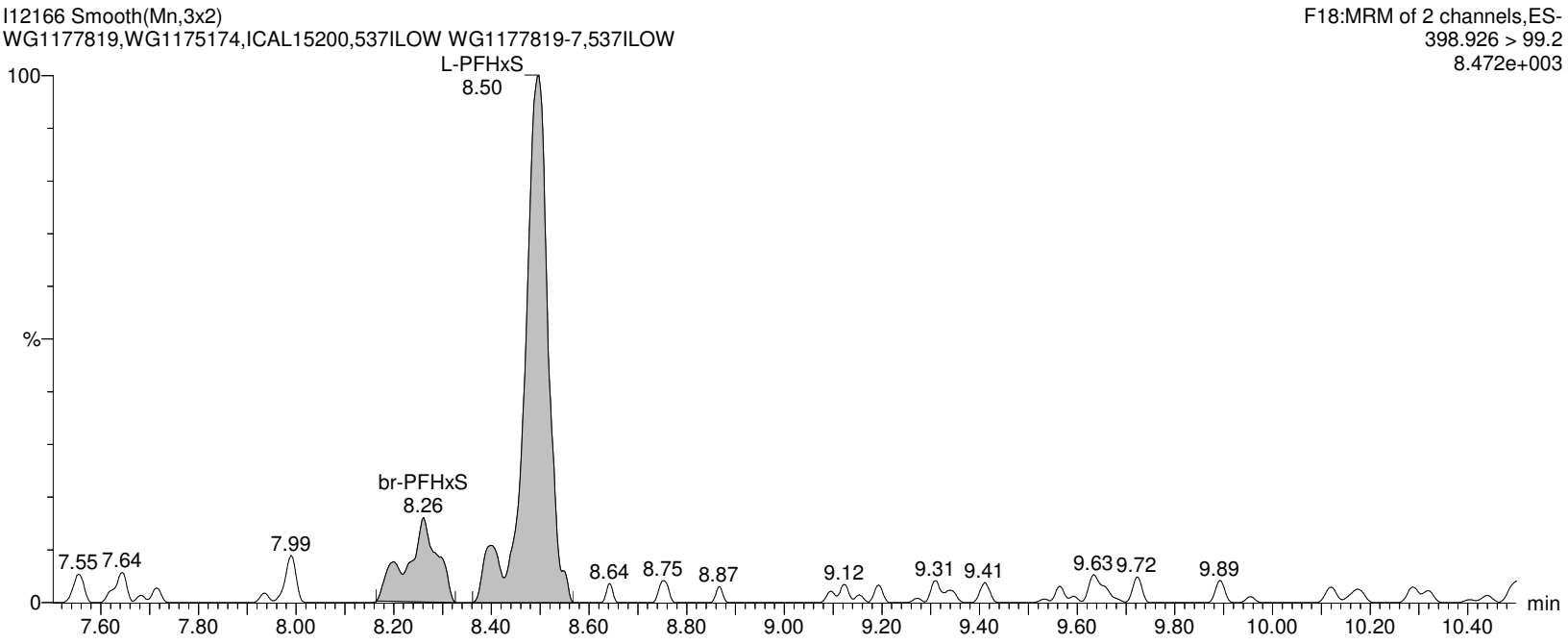

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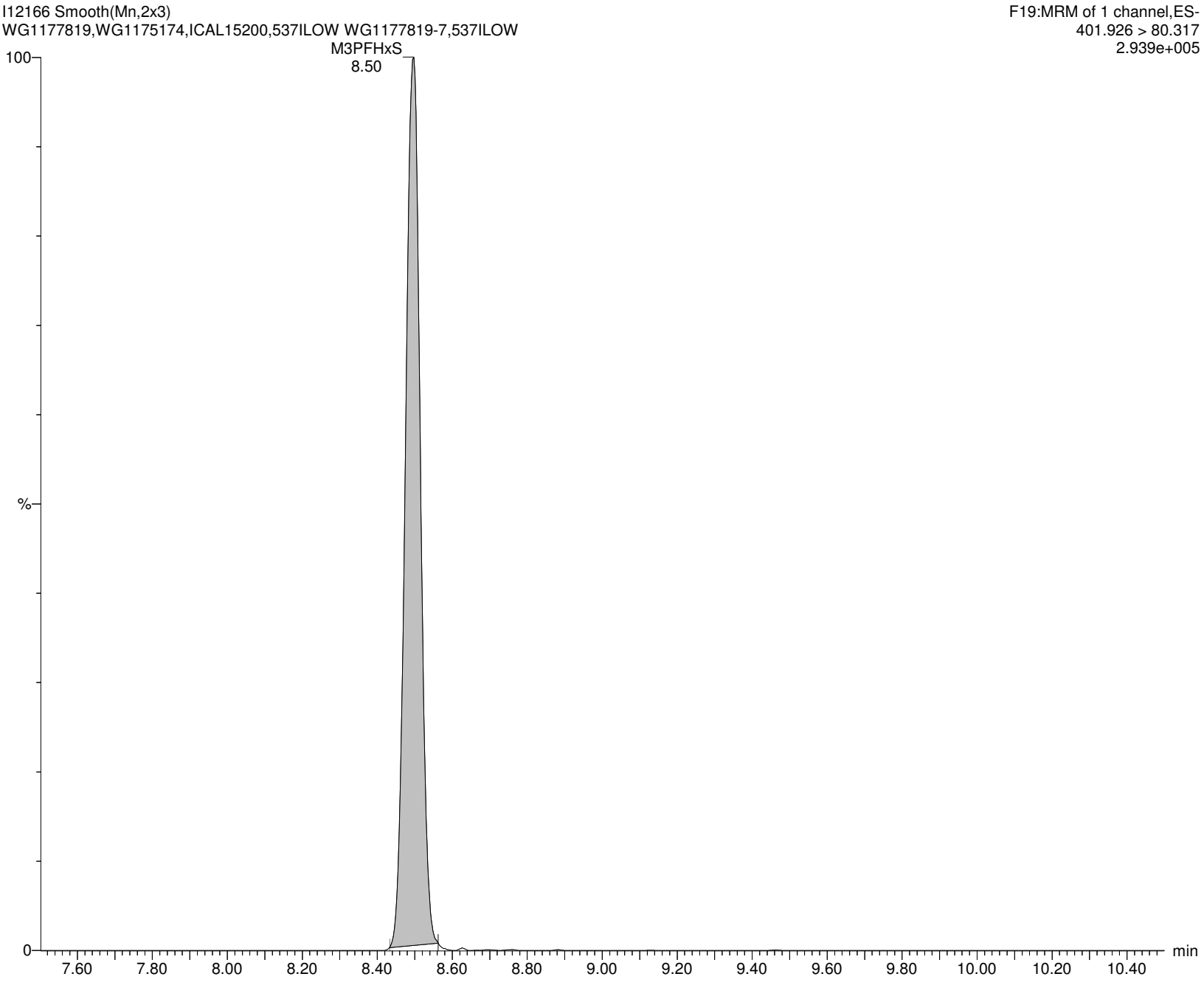

all concentration units in (ng/mL)

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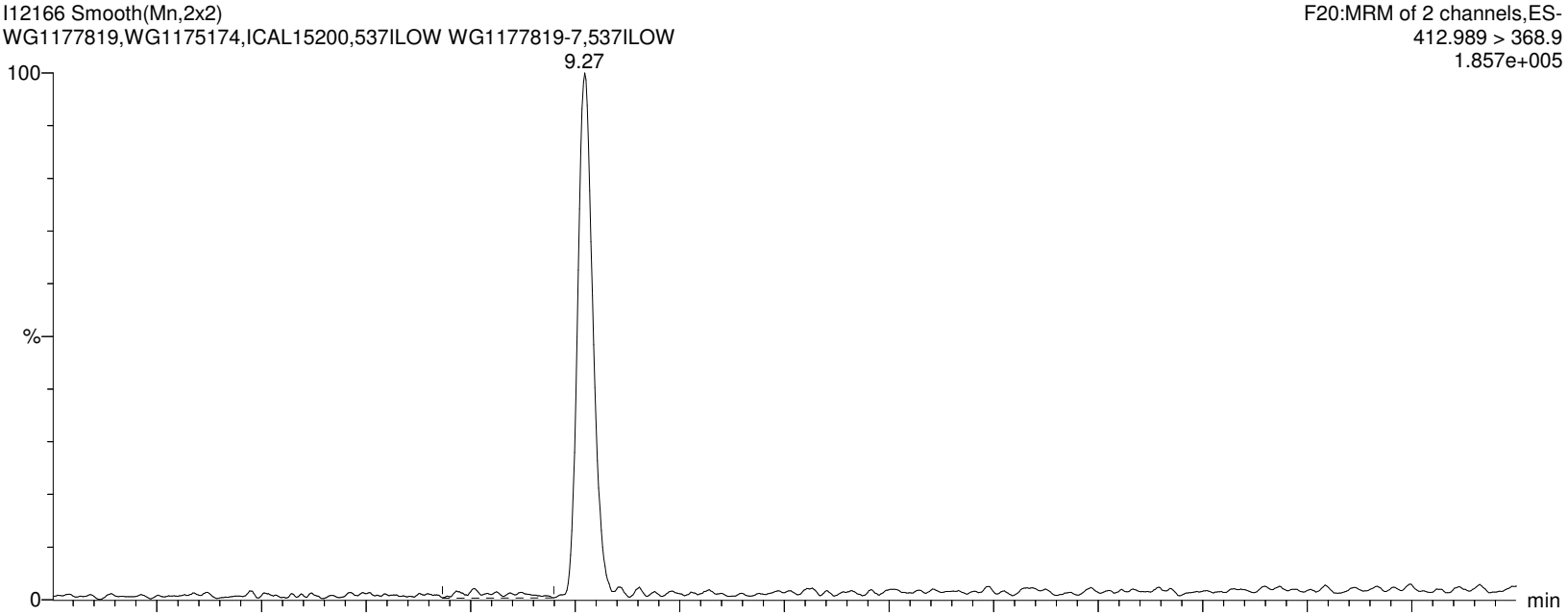

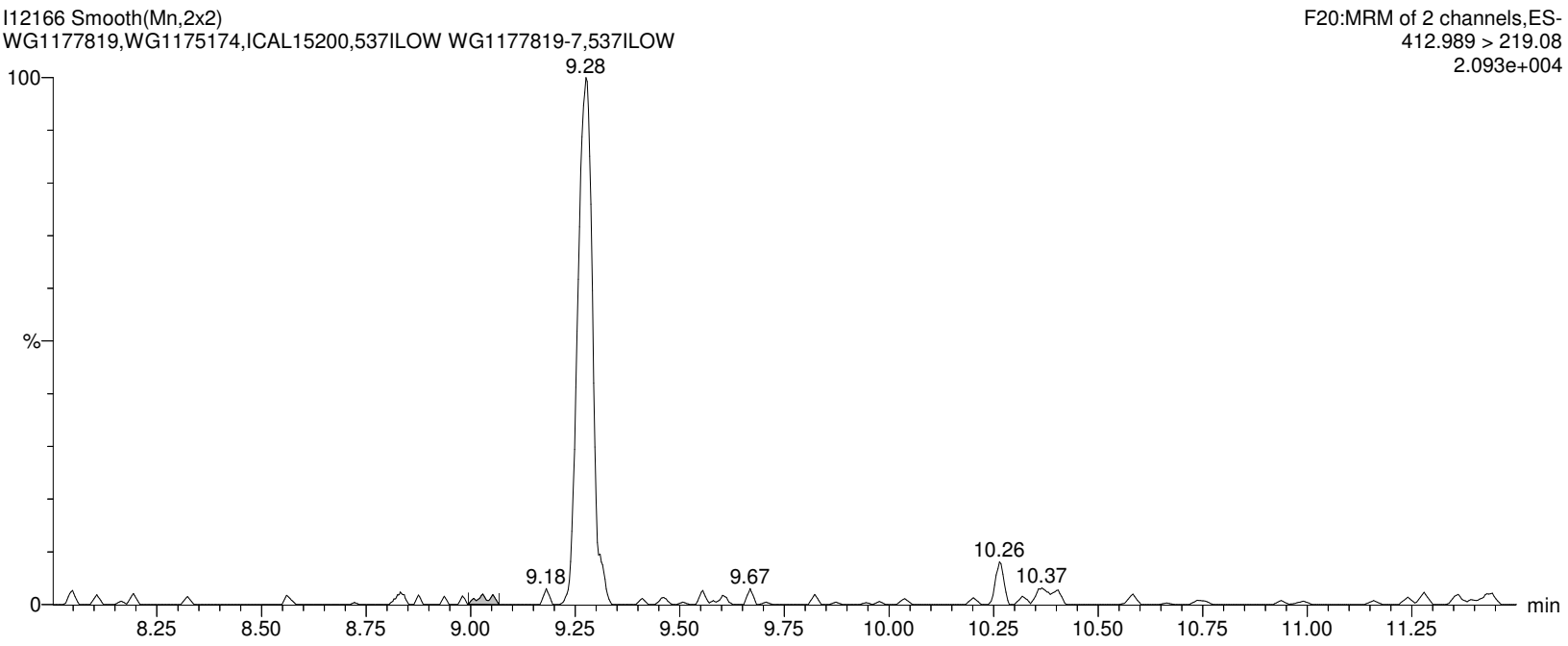

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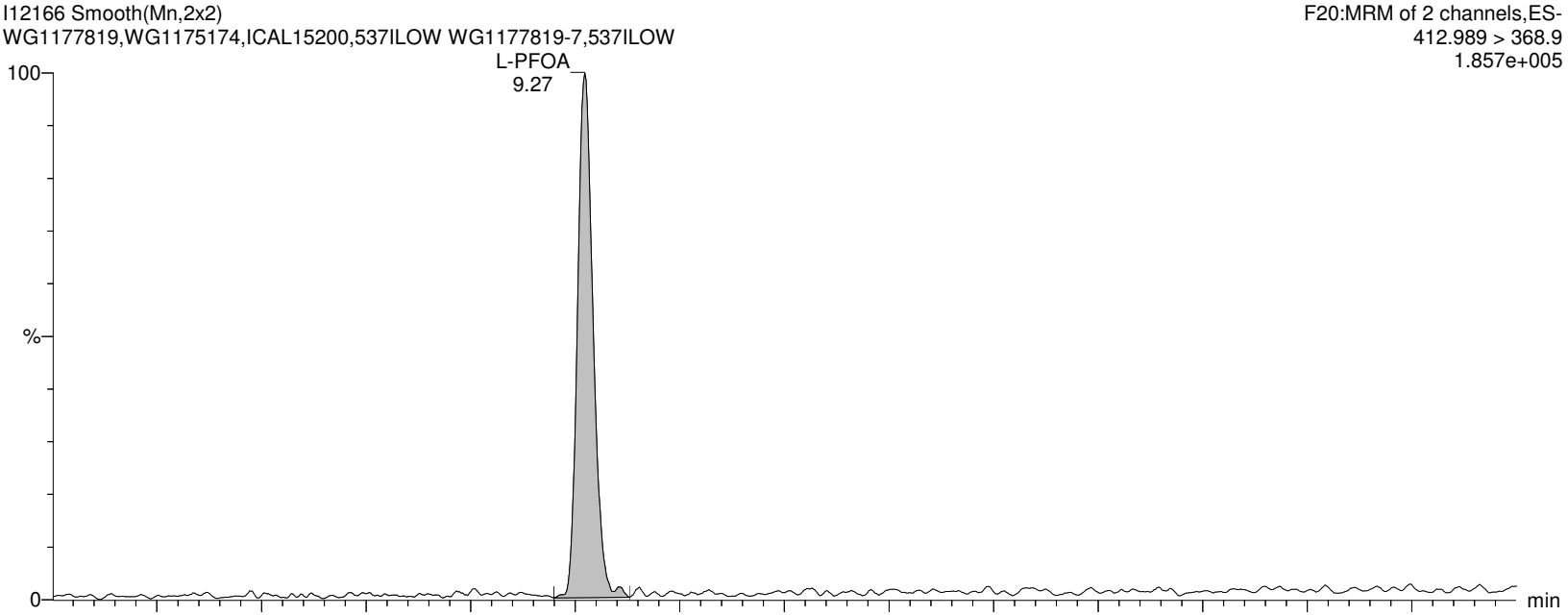

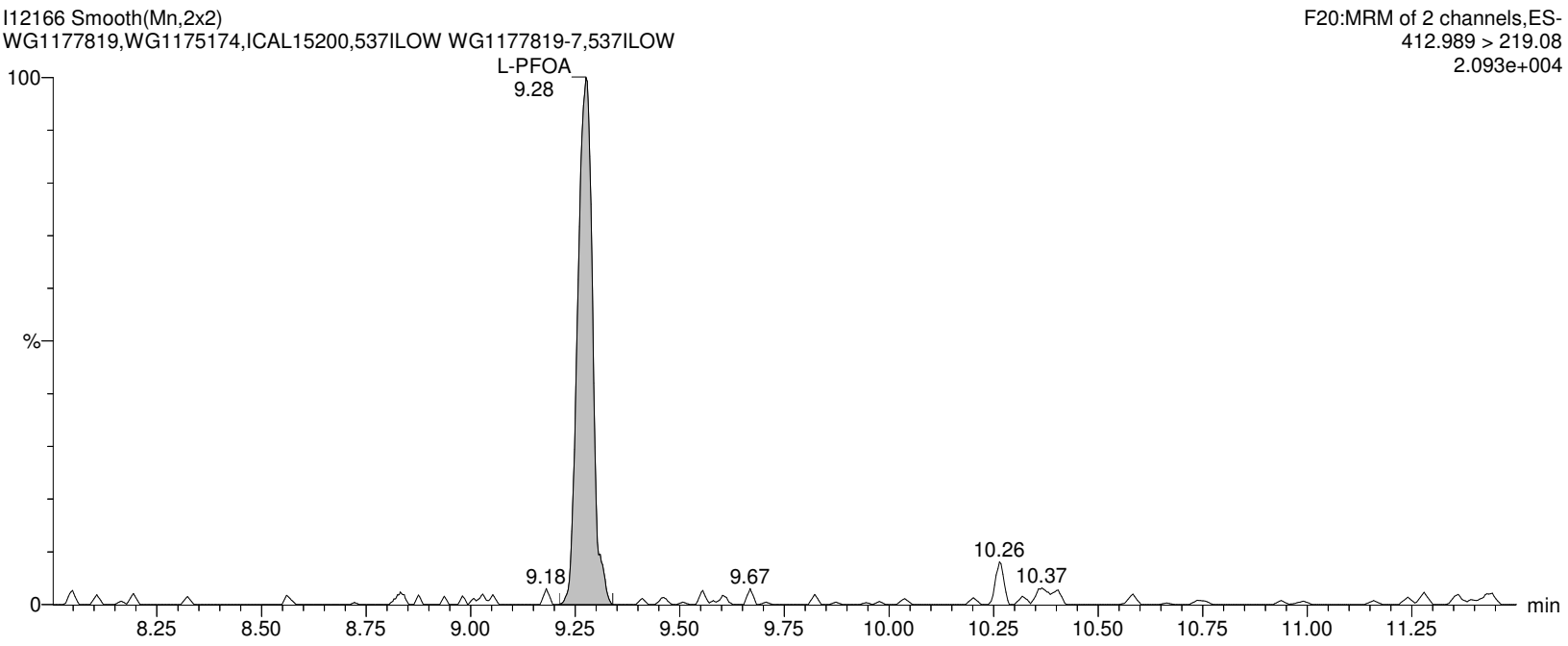

all concentration units in (ng/mL)

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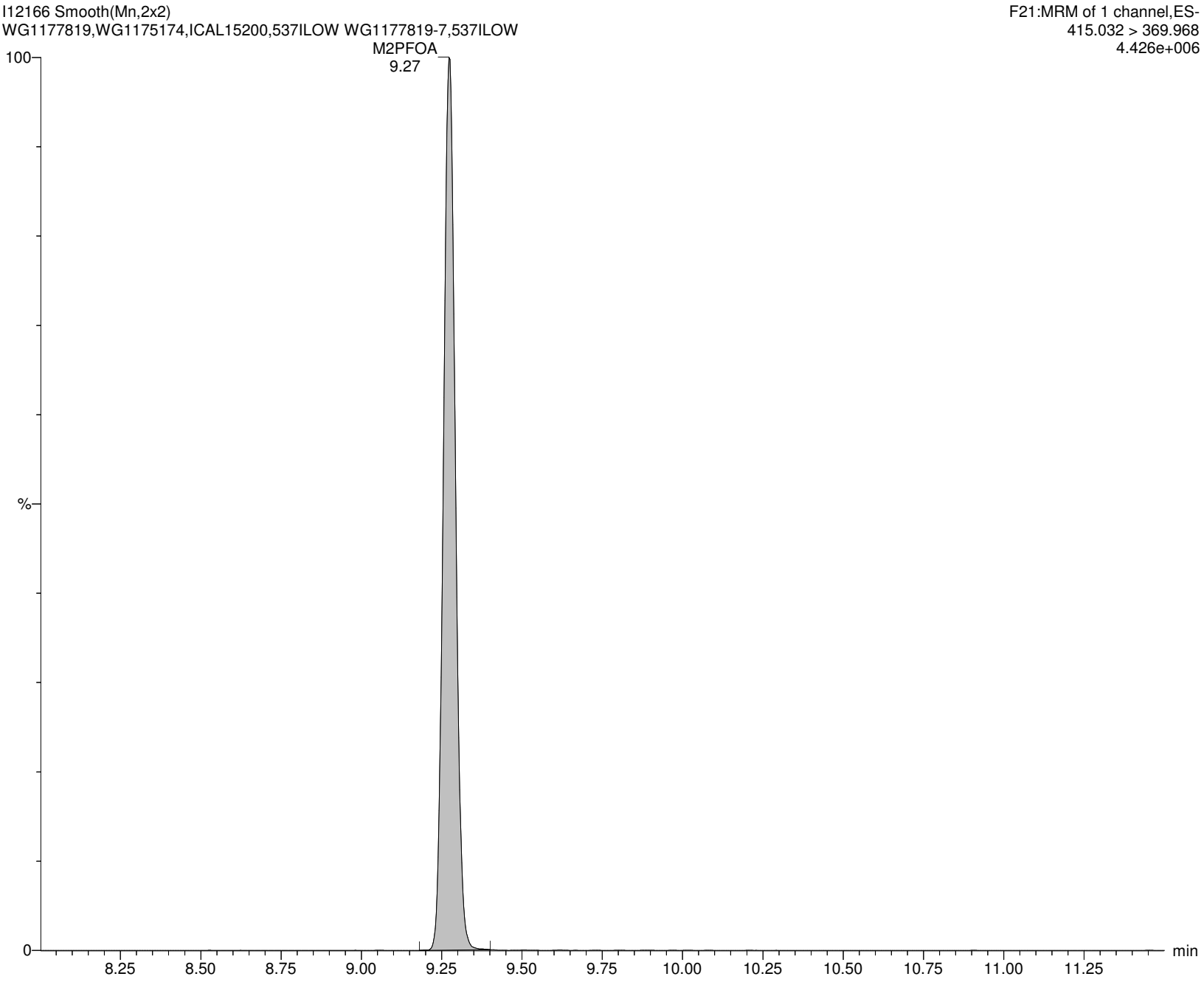

all concentration units in (ng/mL)

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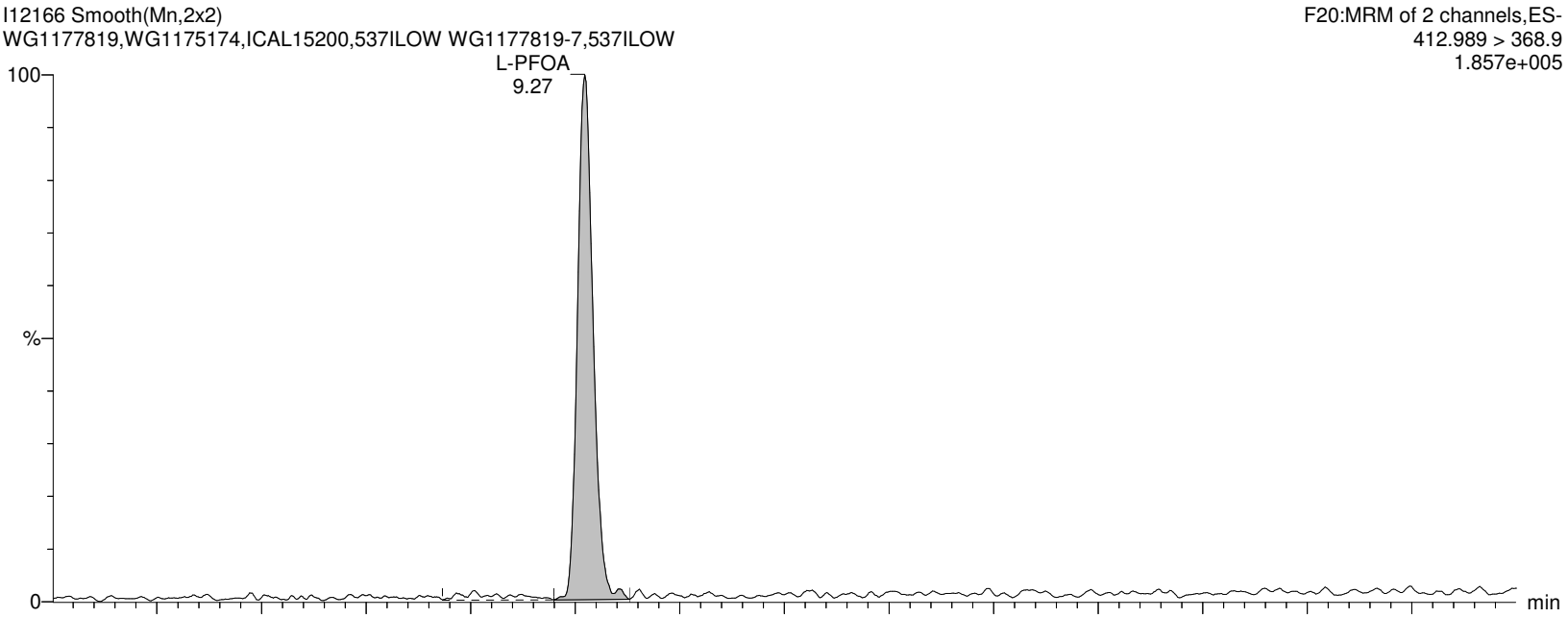

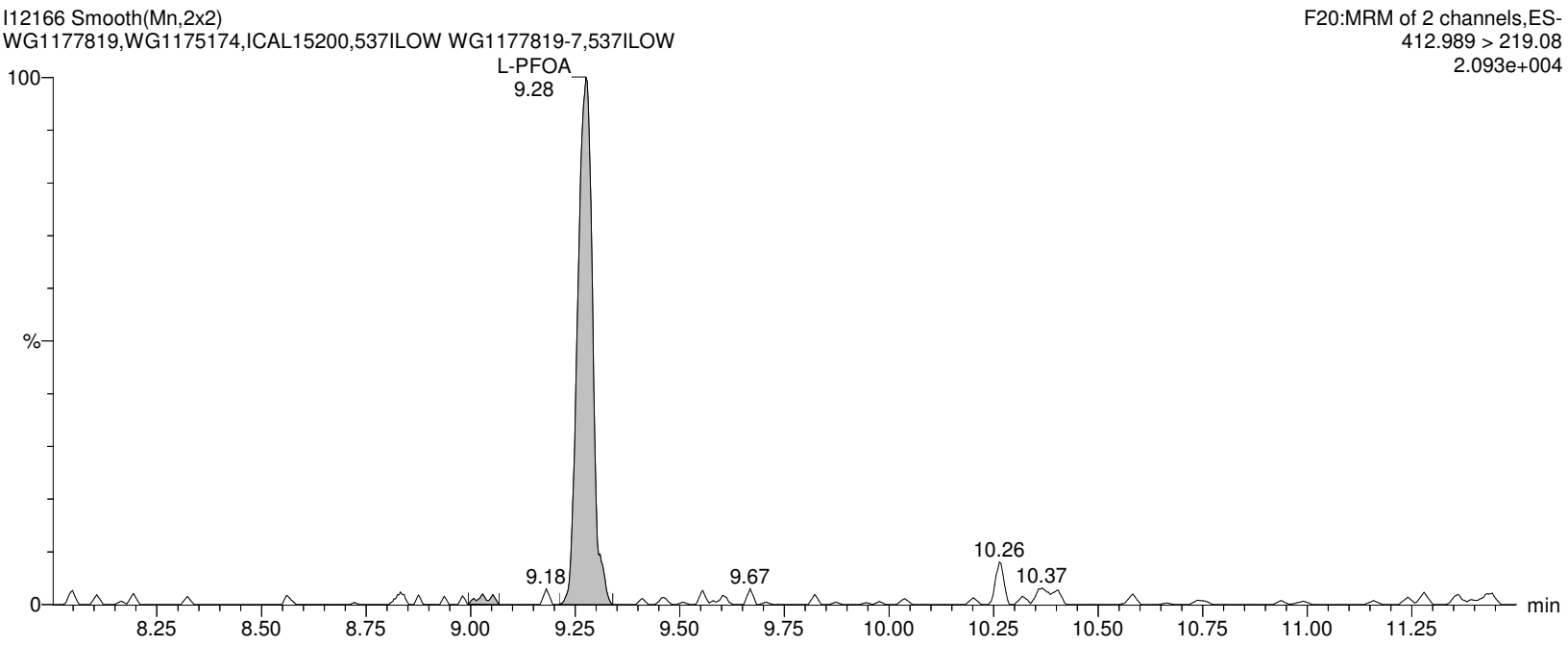

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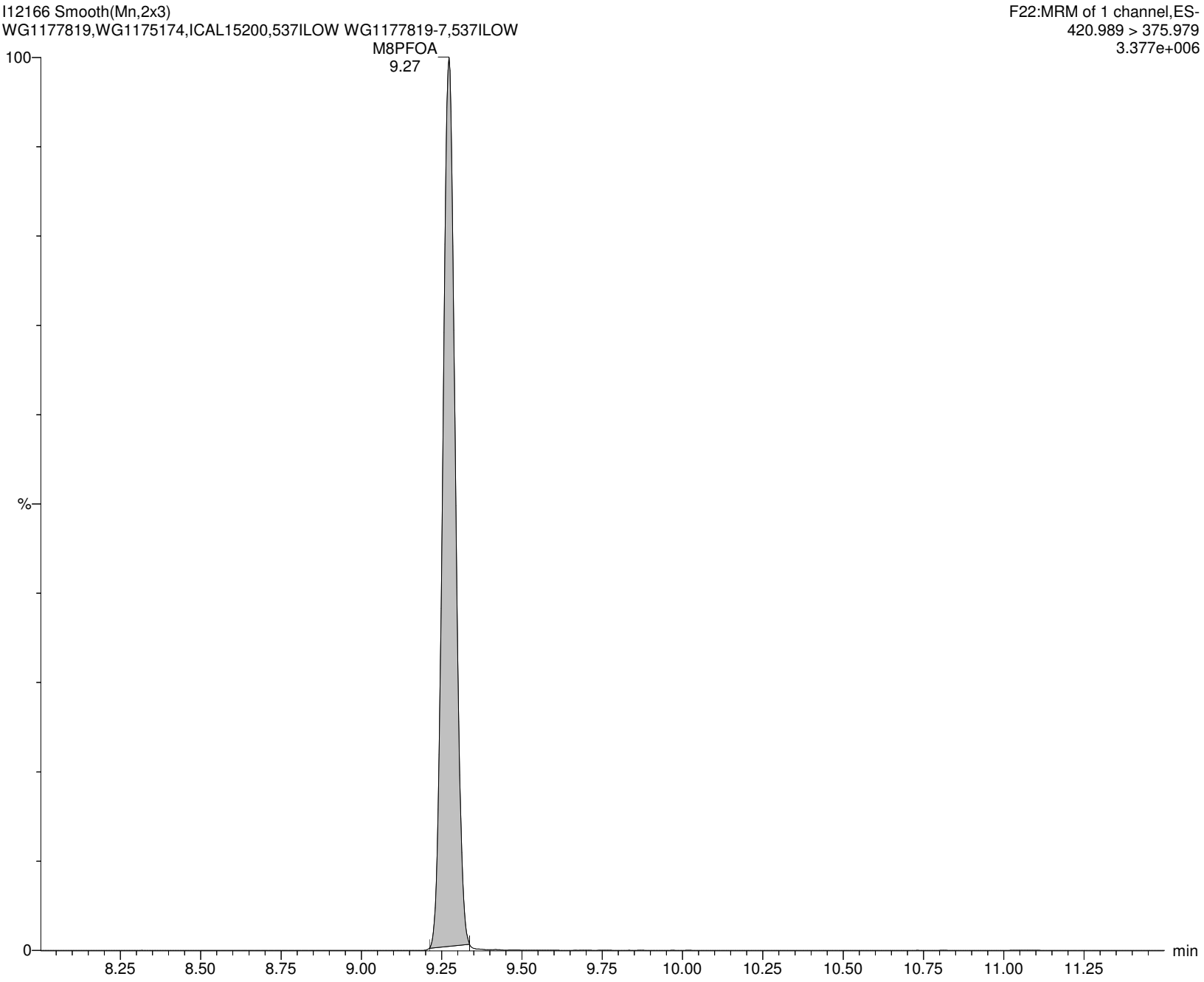

all concentration units in (ng/mL)

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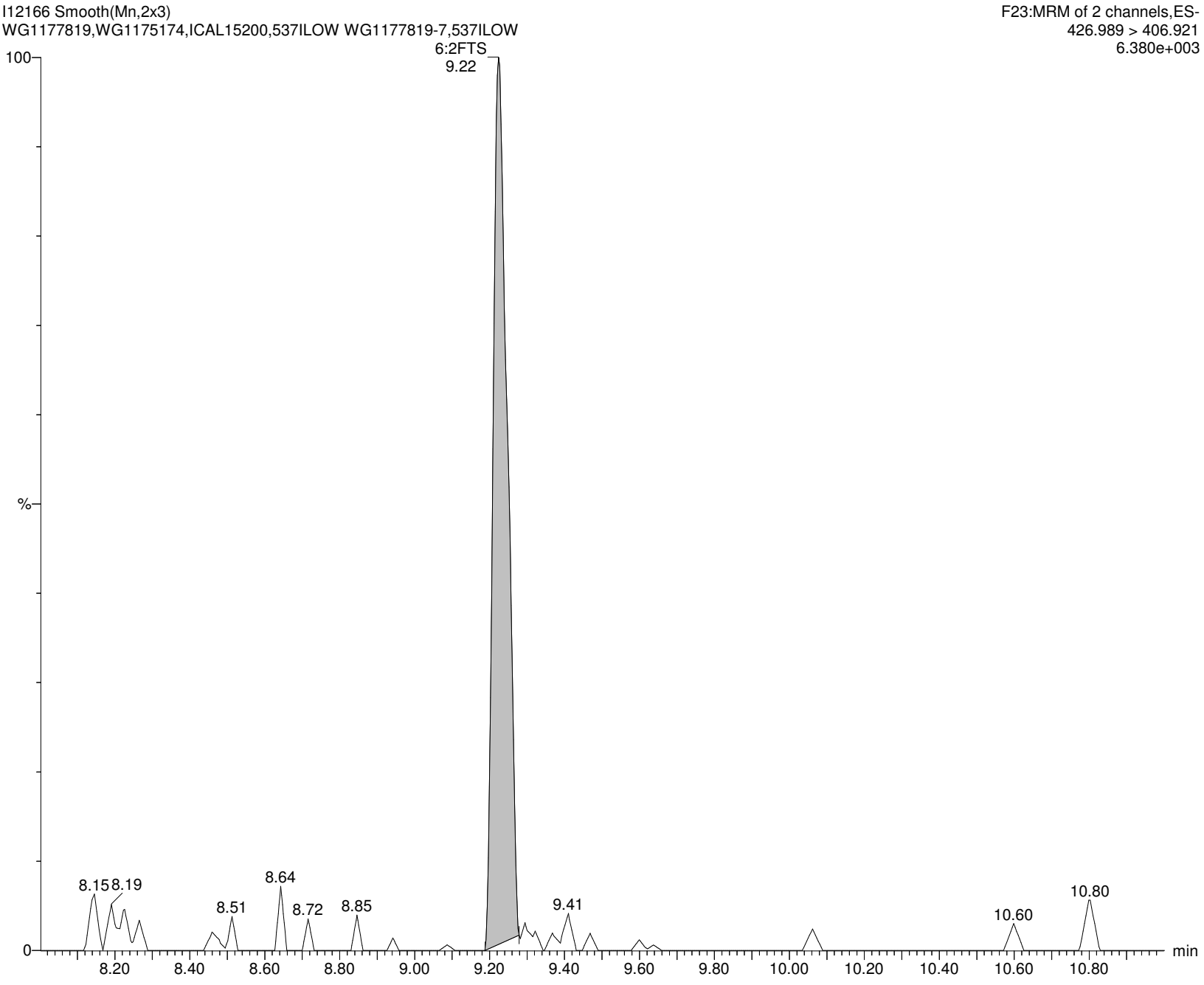

all concentration units in (ng/mL)

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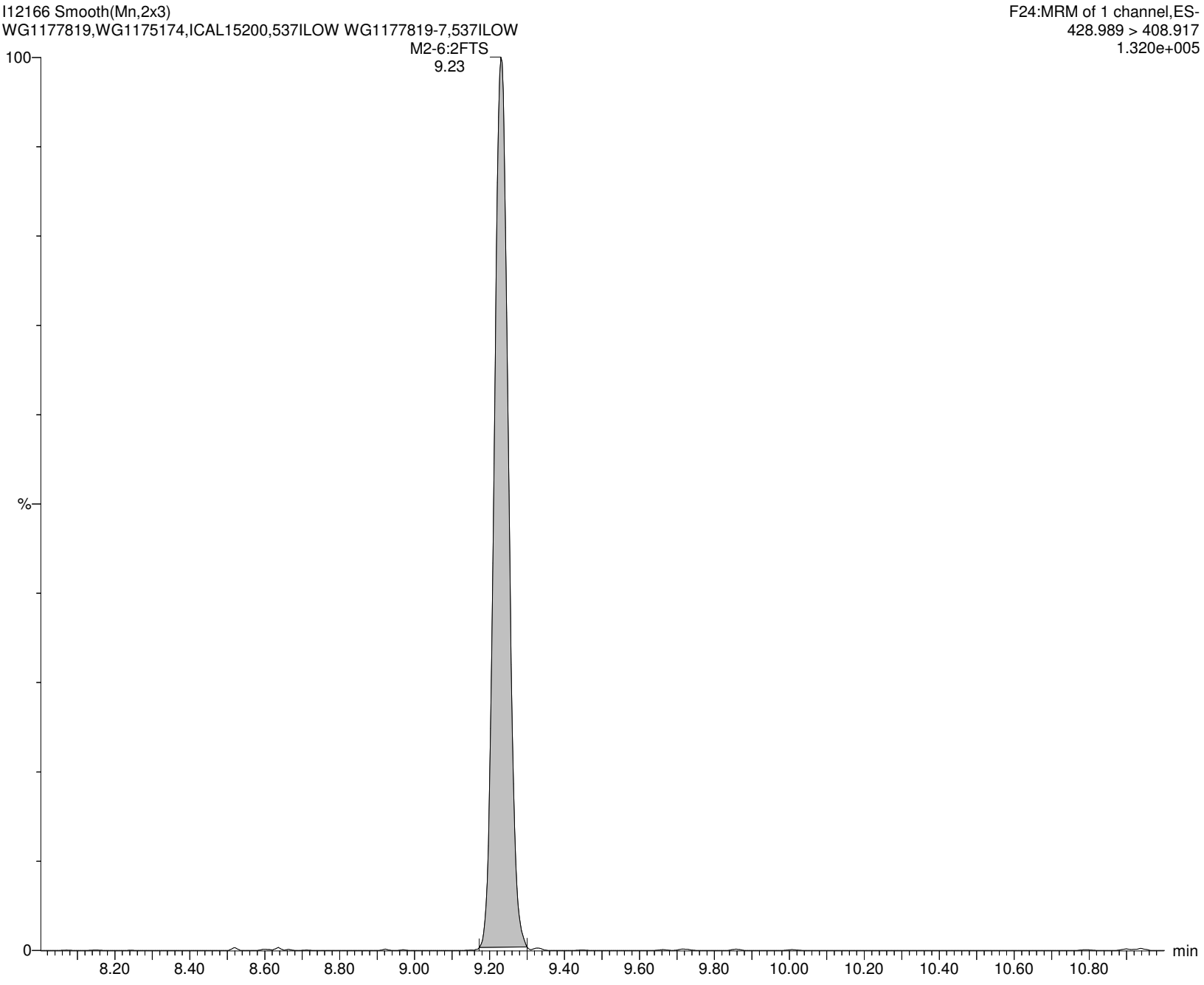

all concentration units in (ng/mL)

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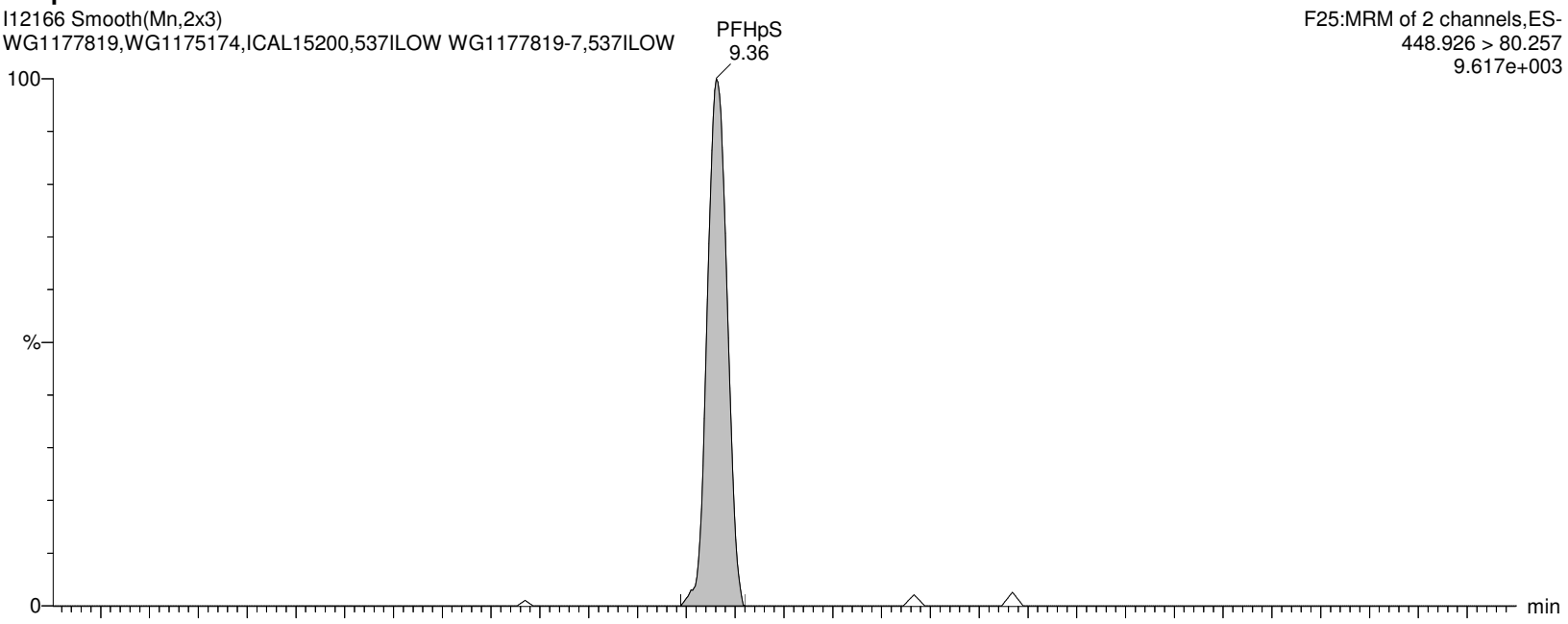

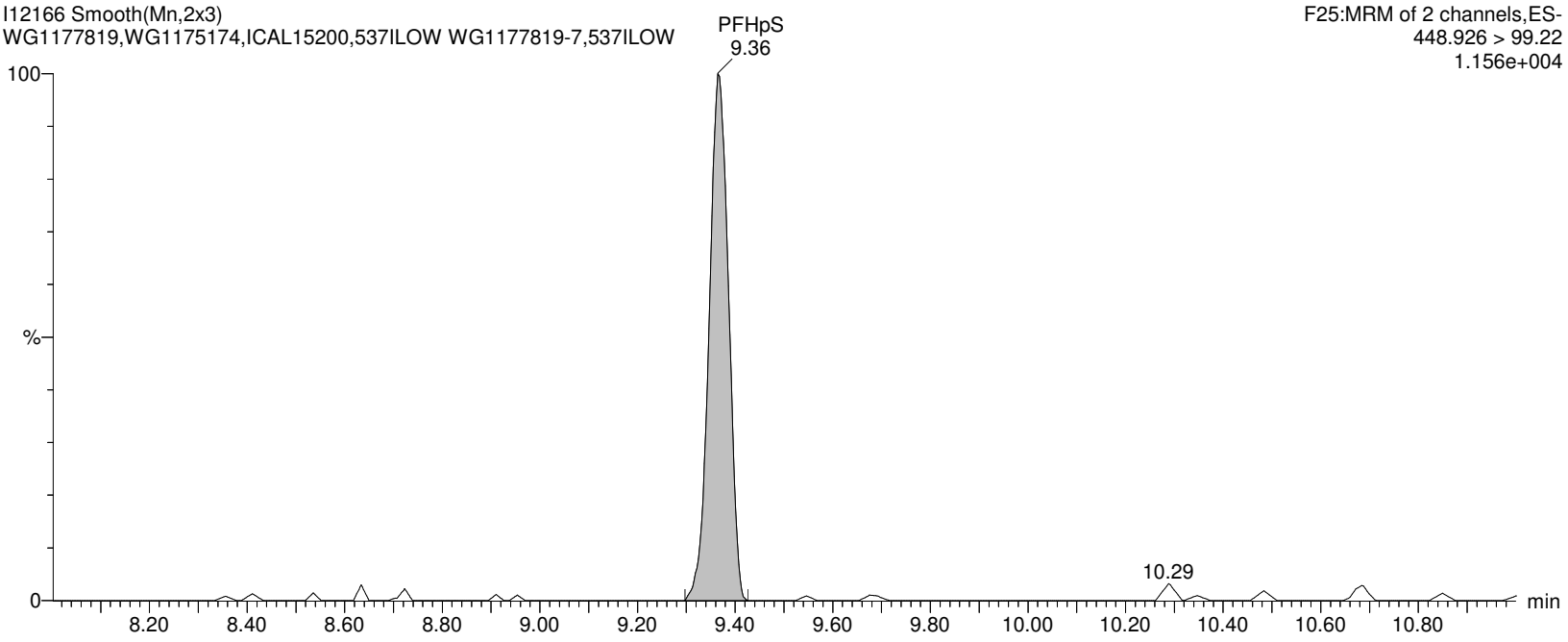

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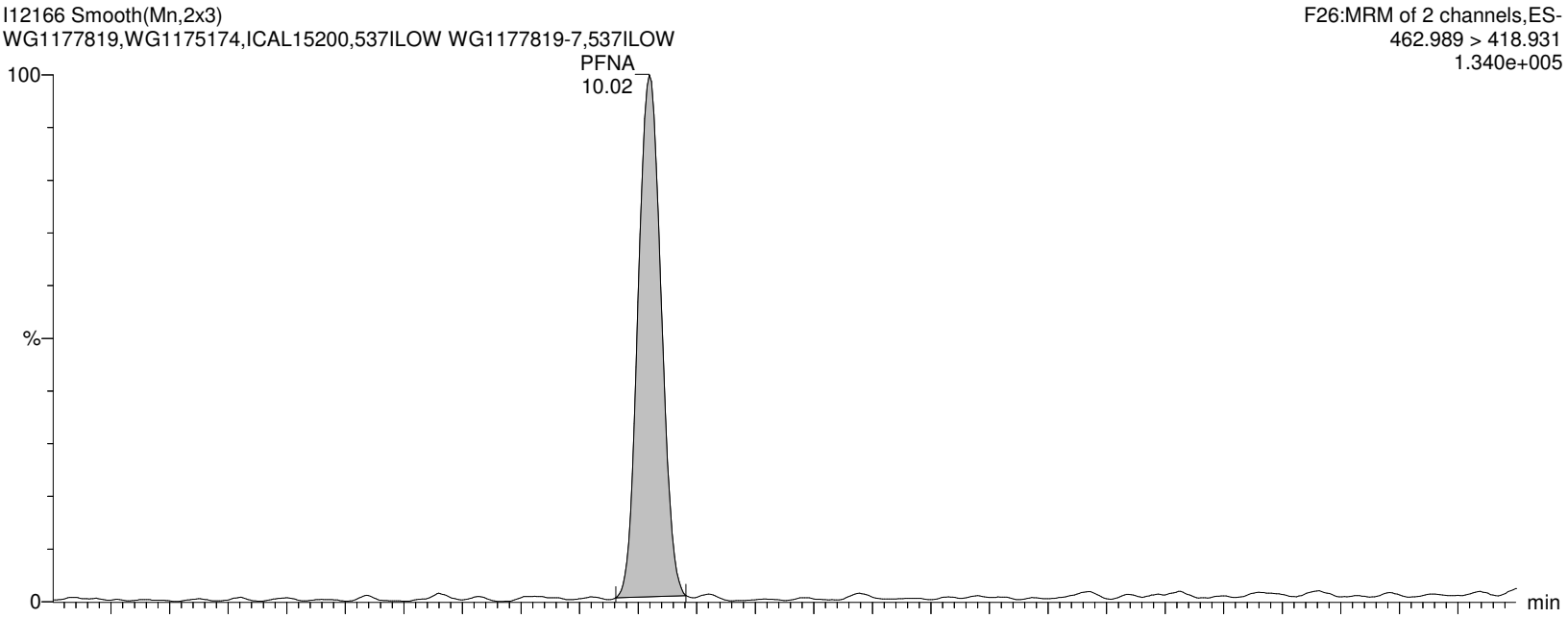

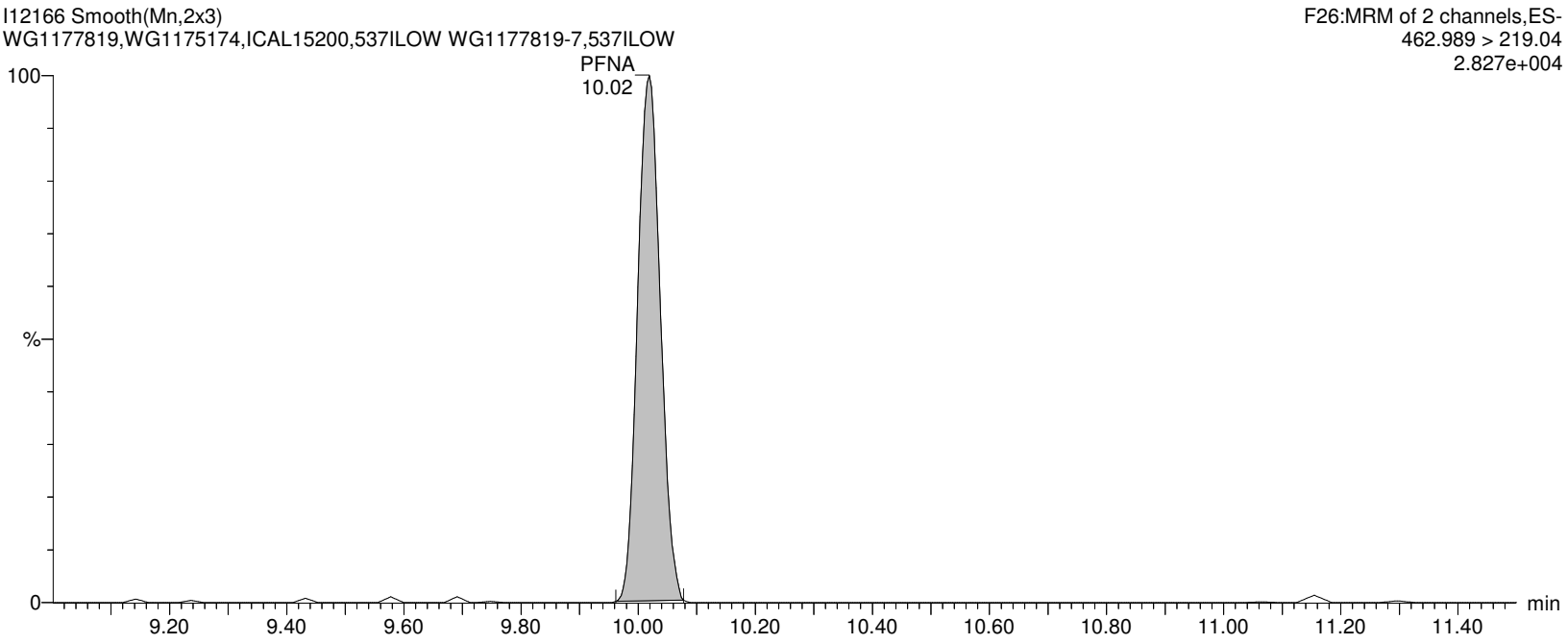

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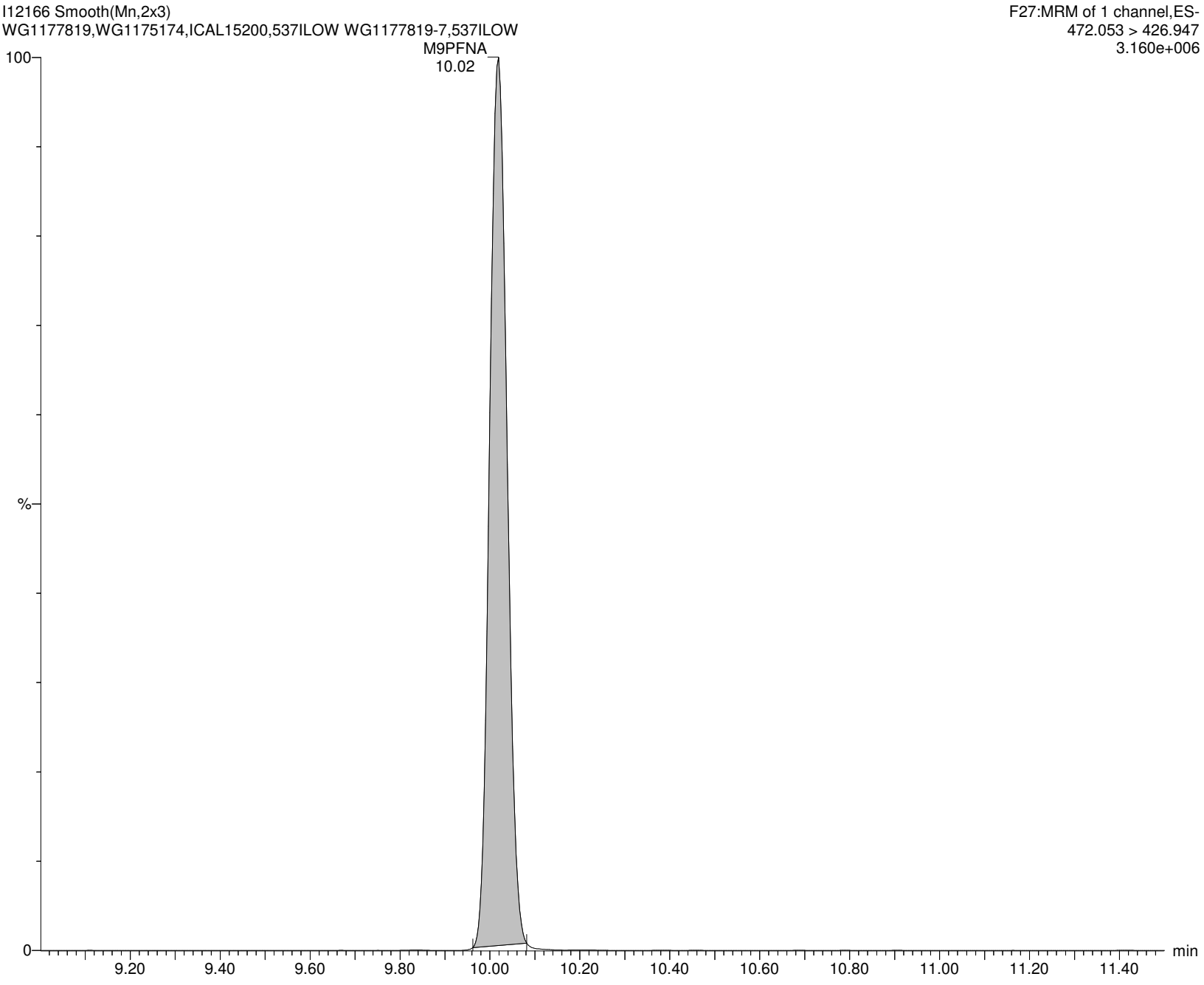

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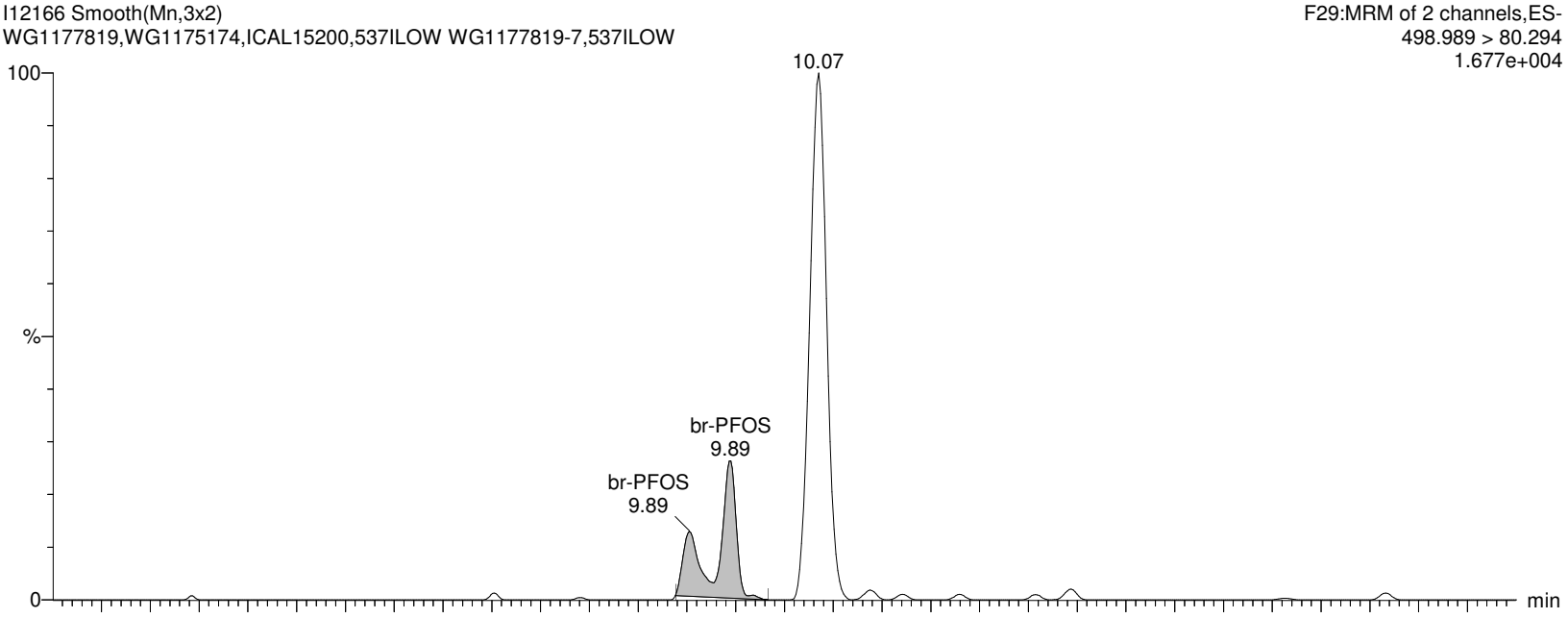

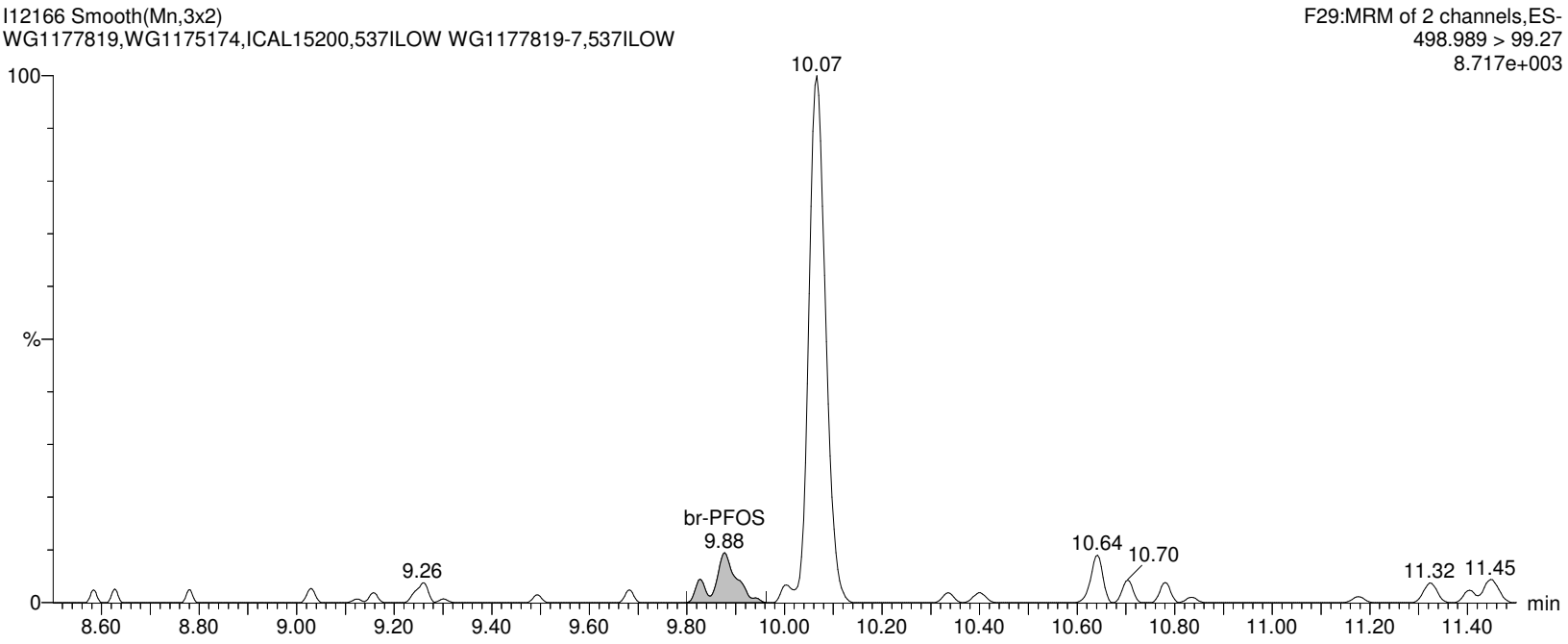

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12166
ID: WG1177819-7,537ILOW
Date: 10-Nov-2018
Time: 10:43:44
Description: WG1177819,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
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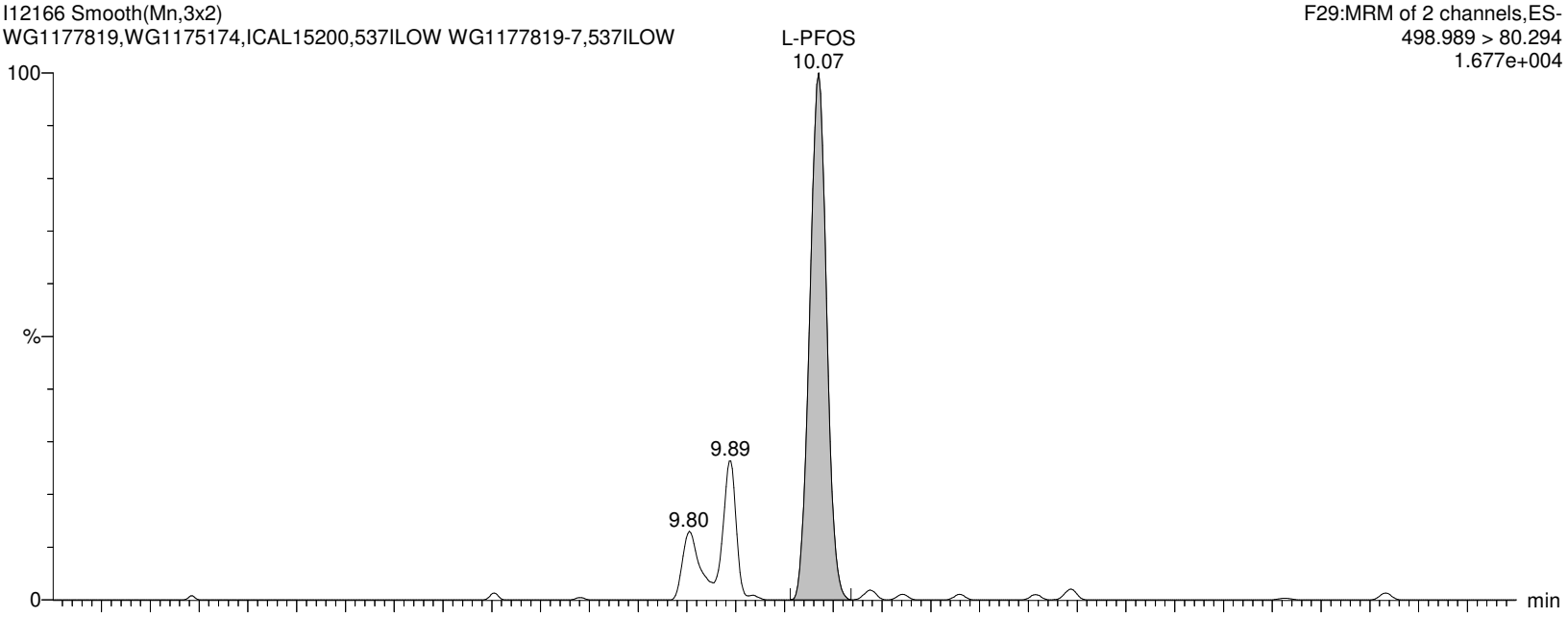

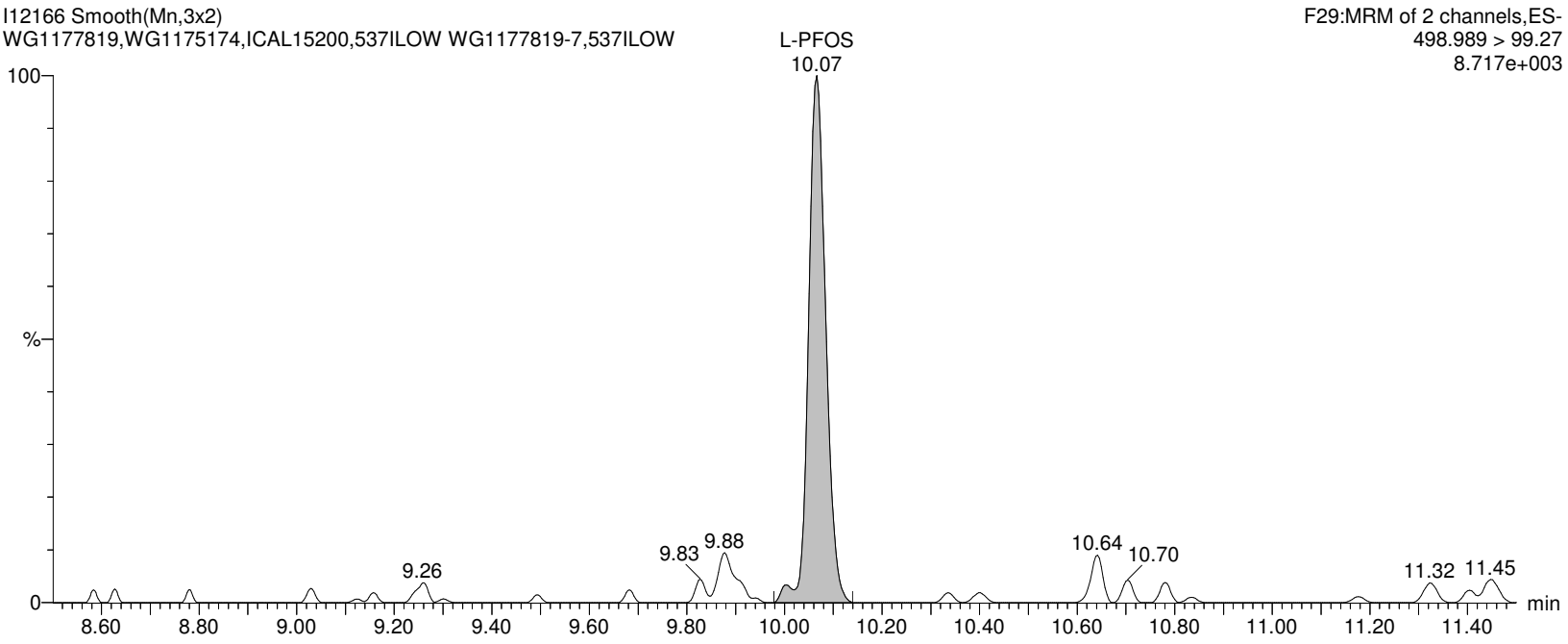

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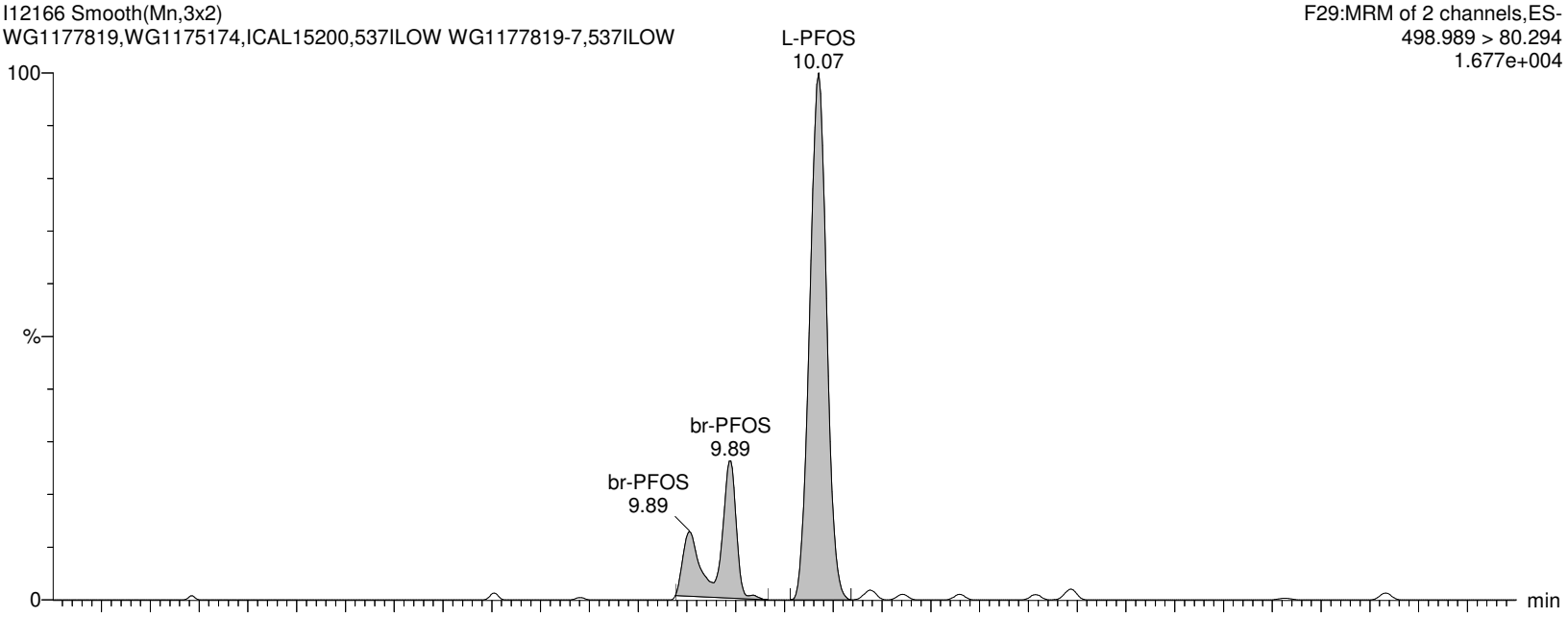

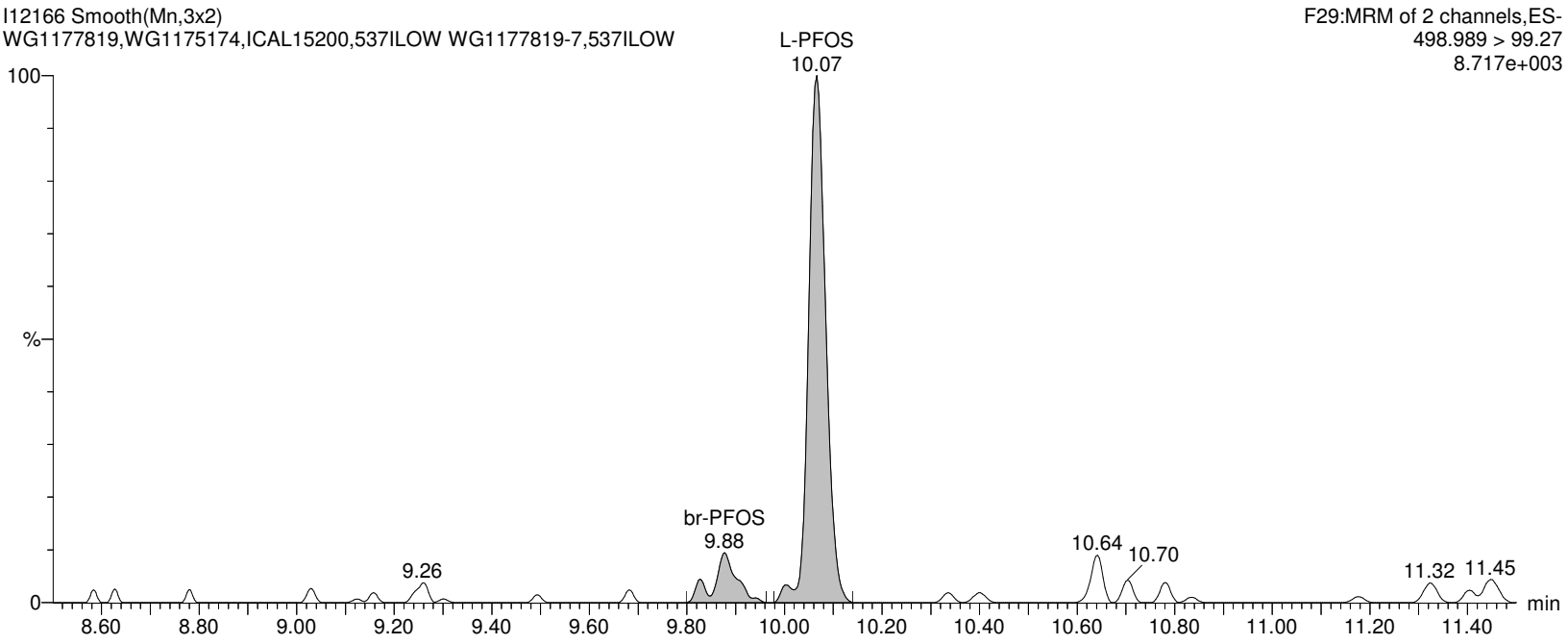

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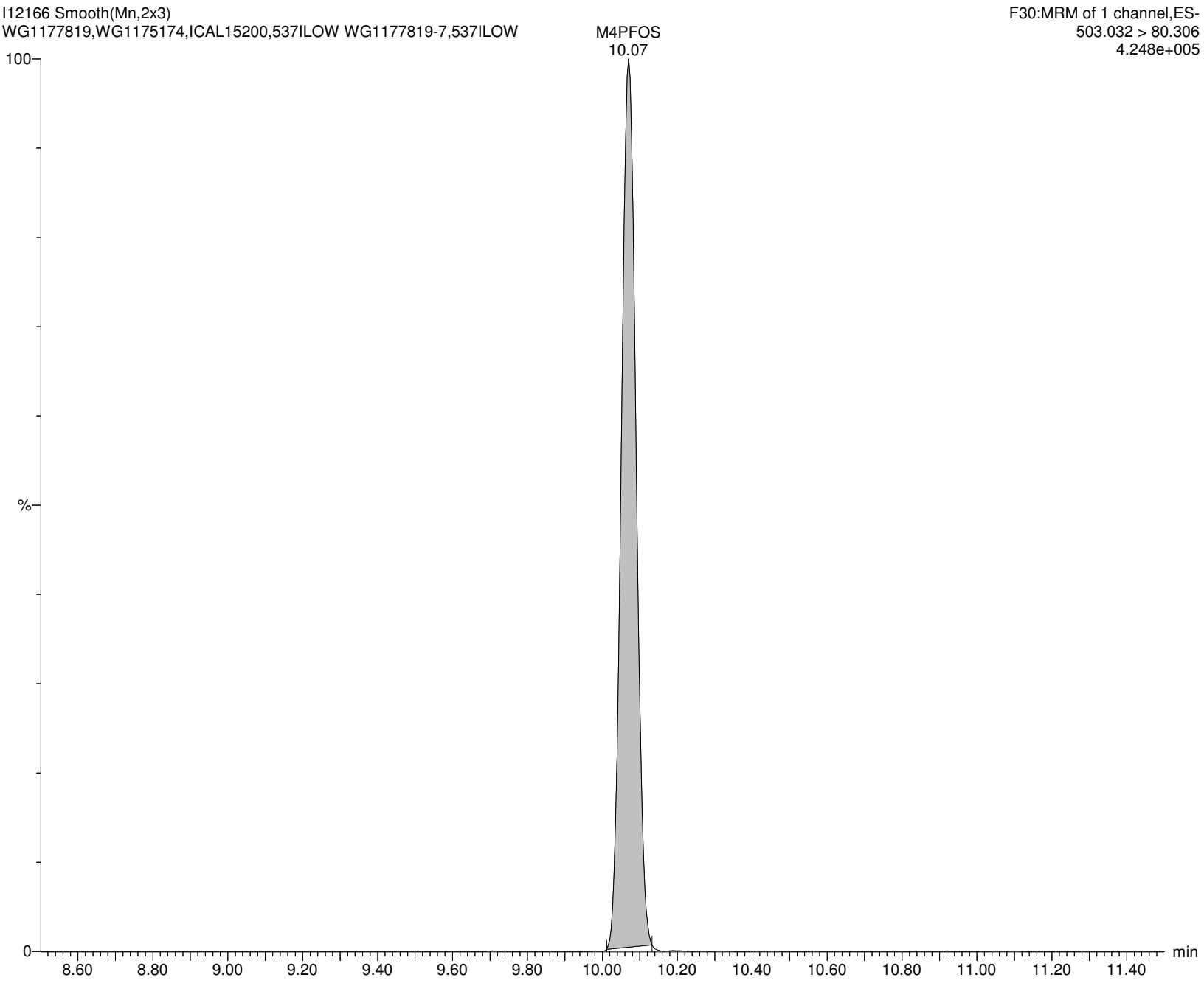

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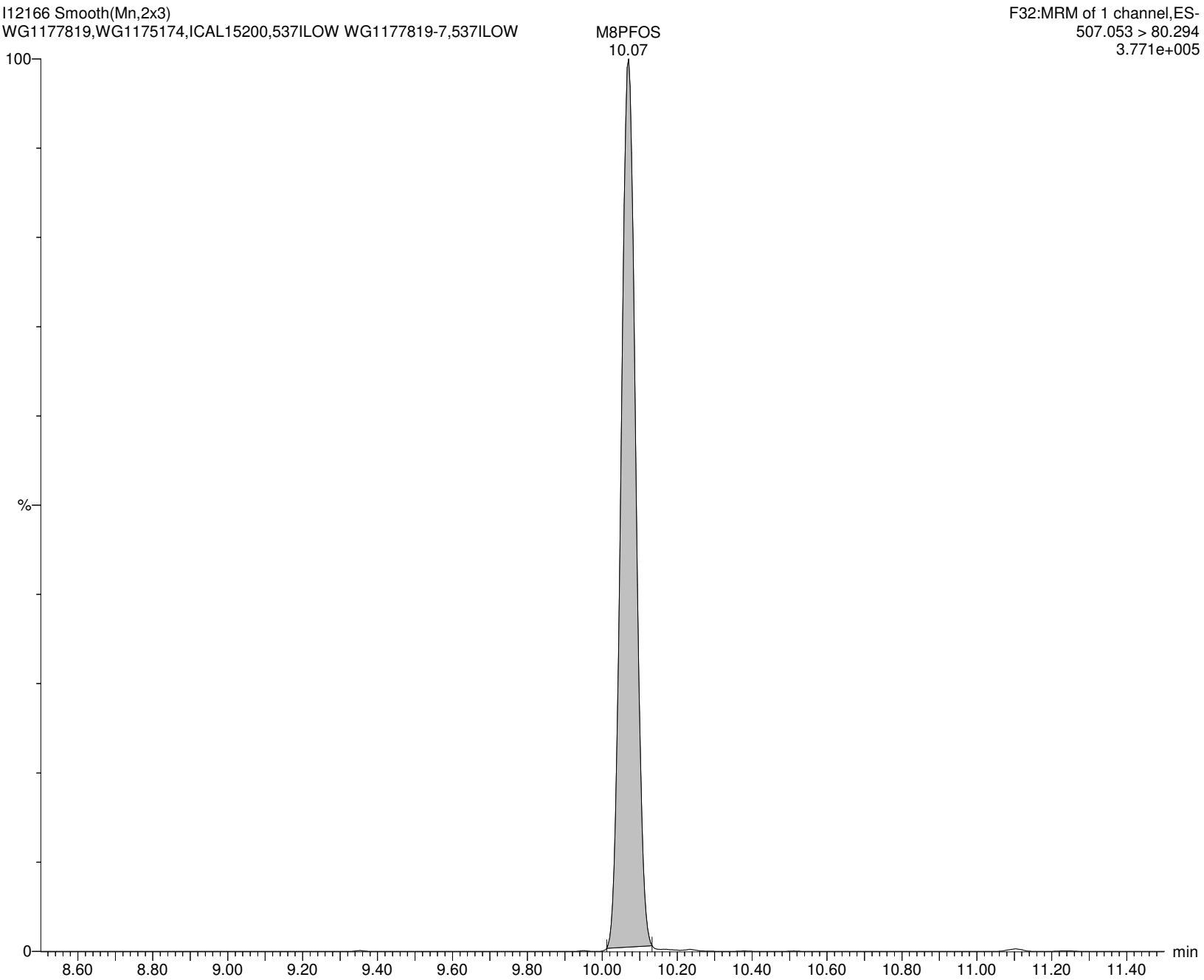

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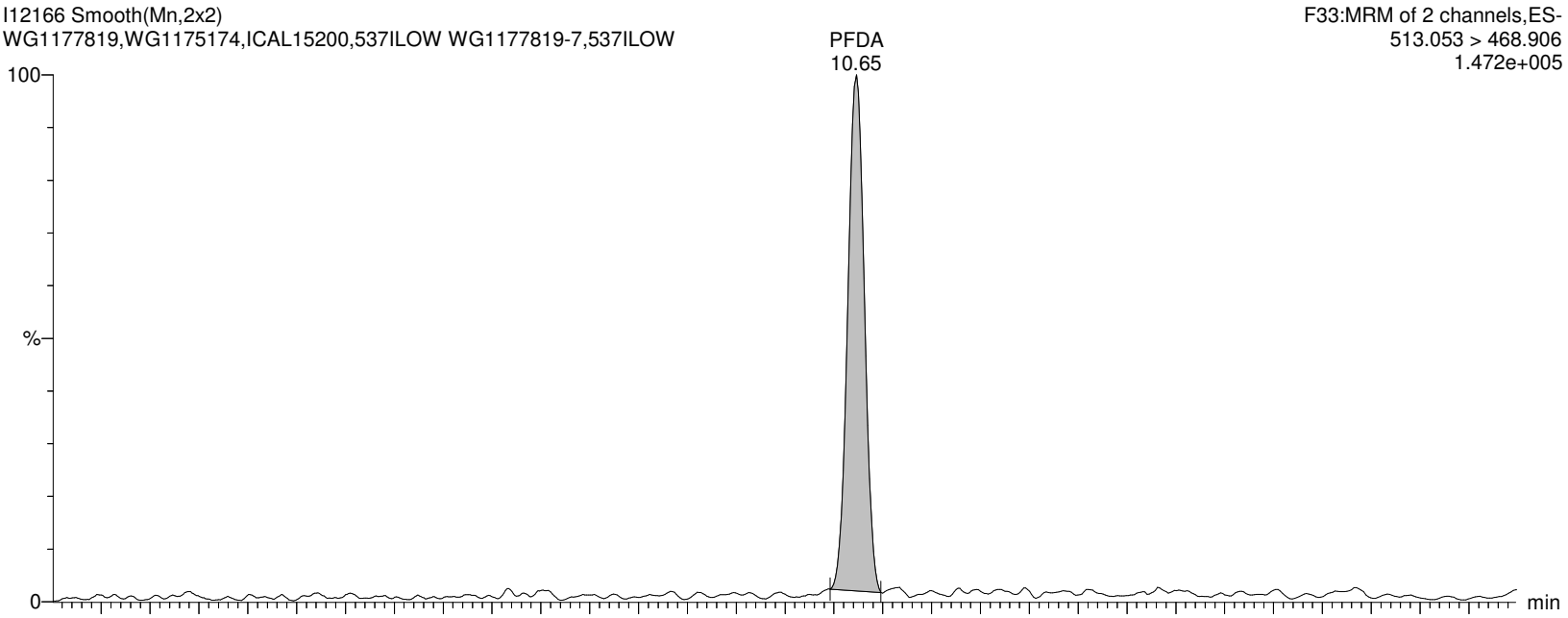

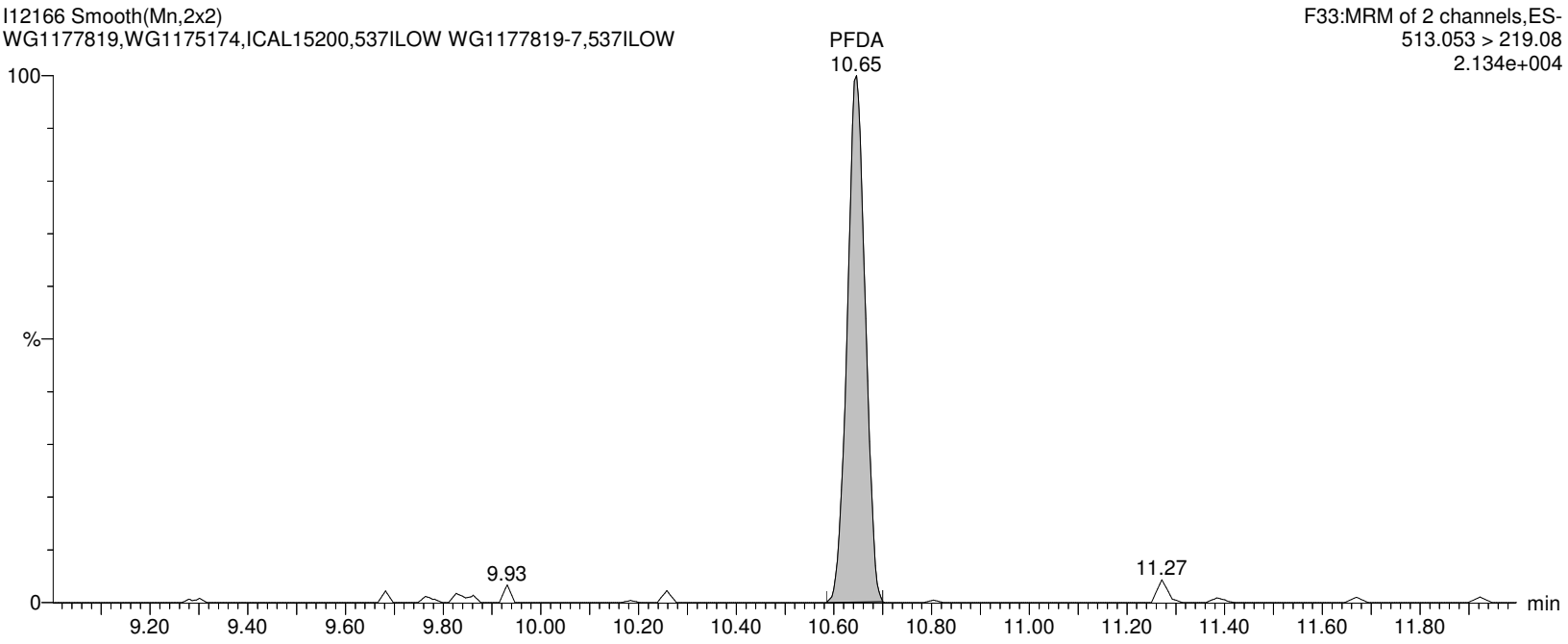

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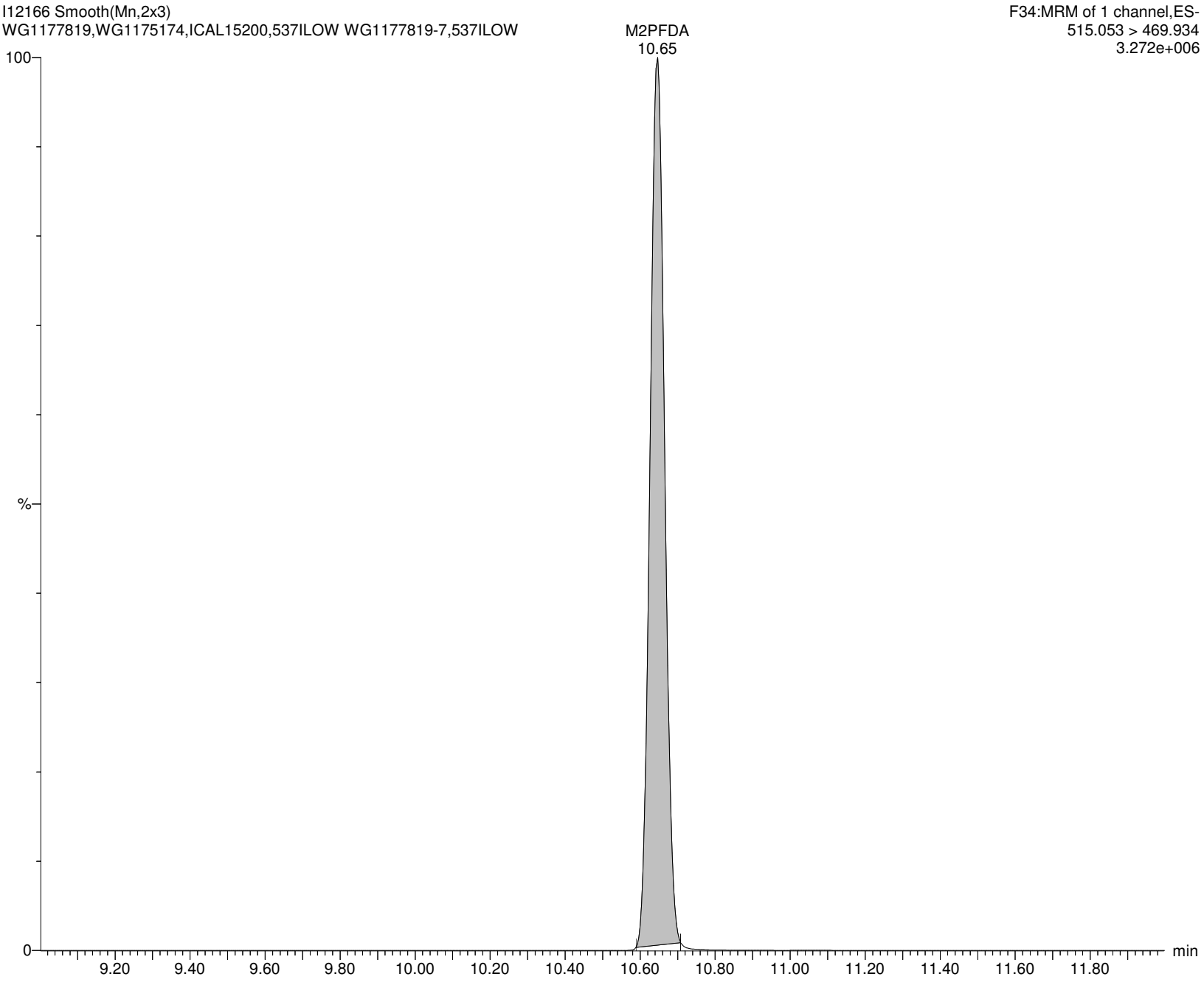

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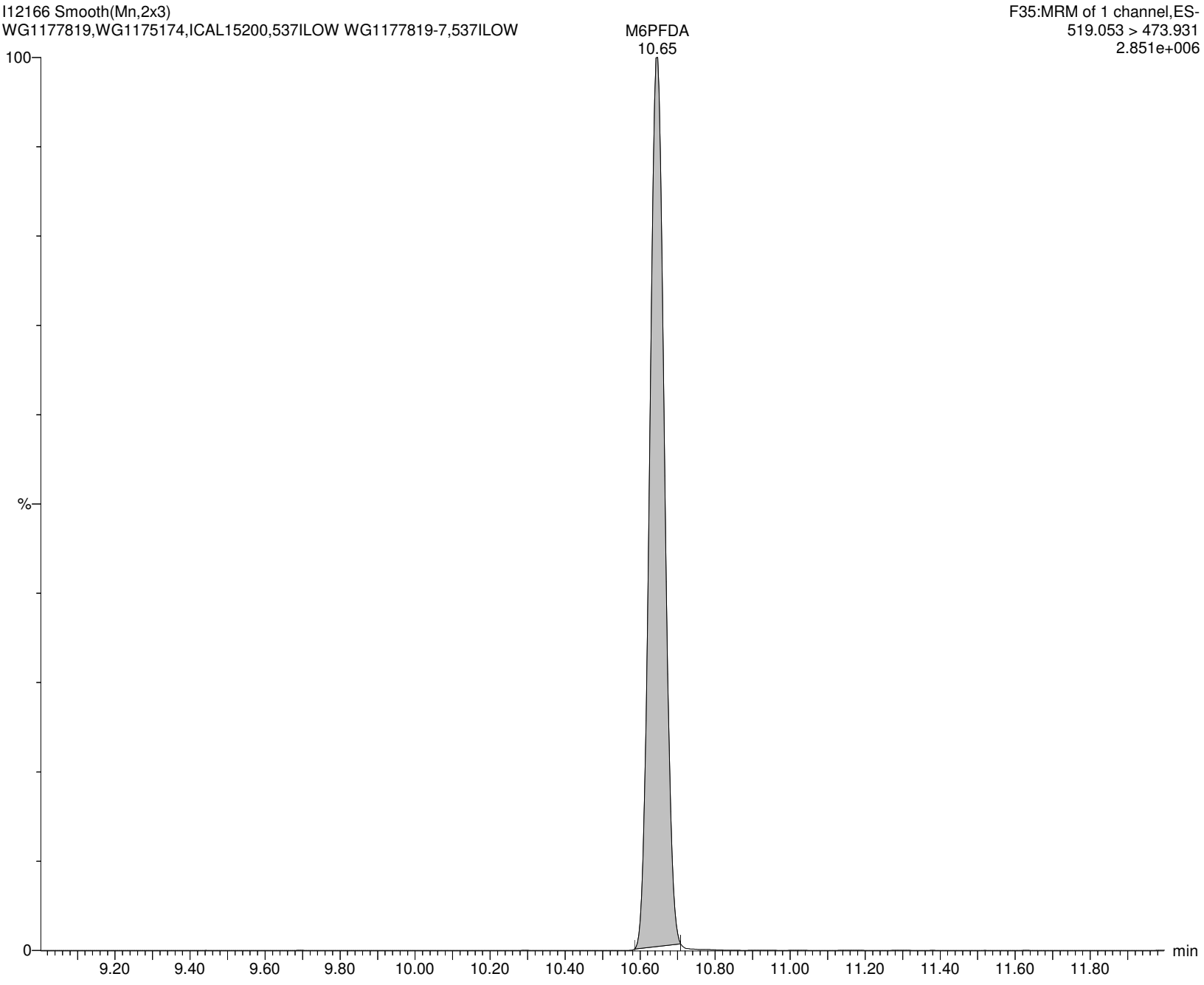

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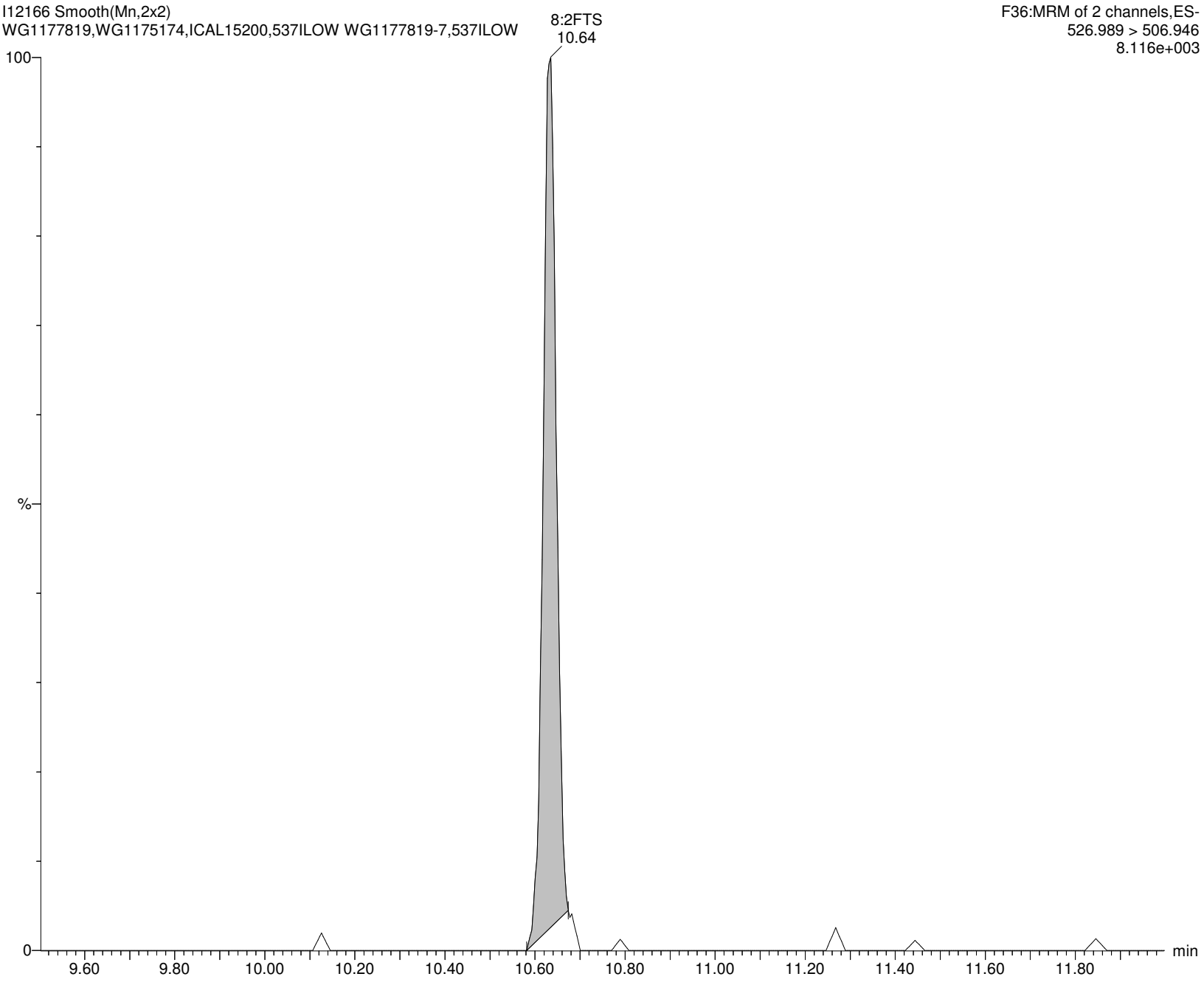

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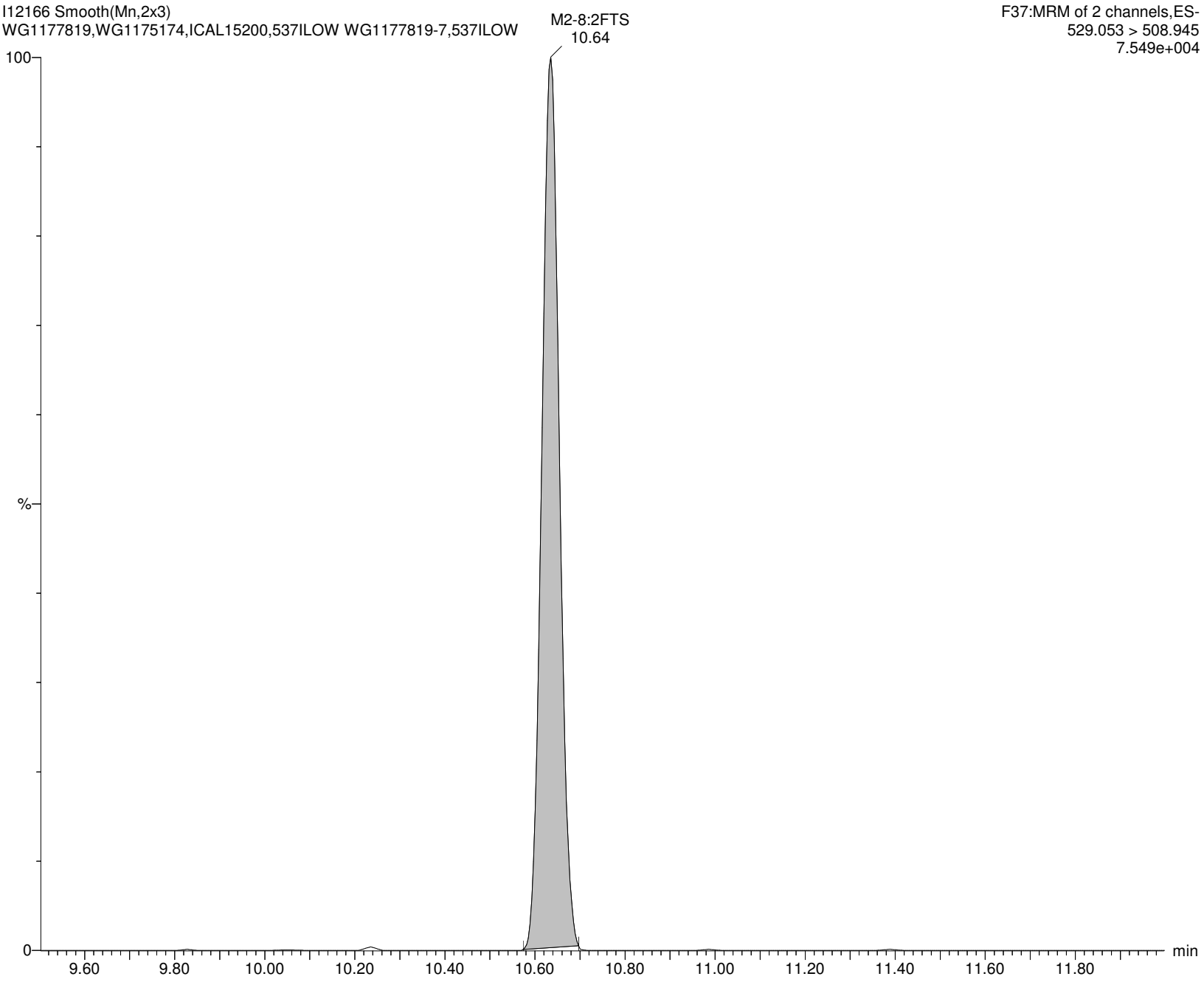

all concentration units in (ng/mL)

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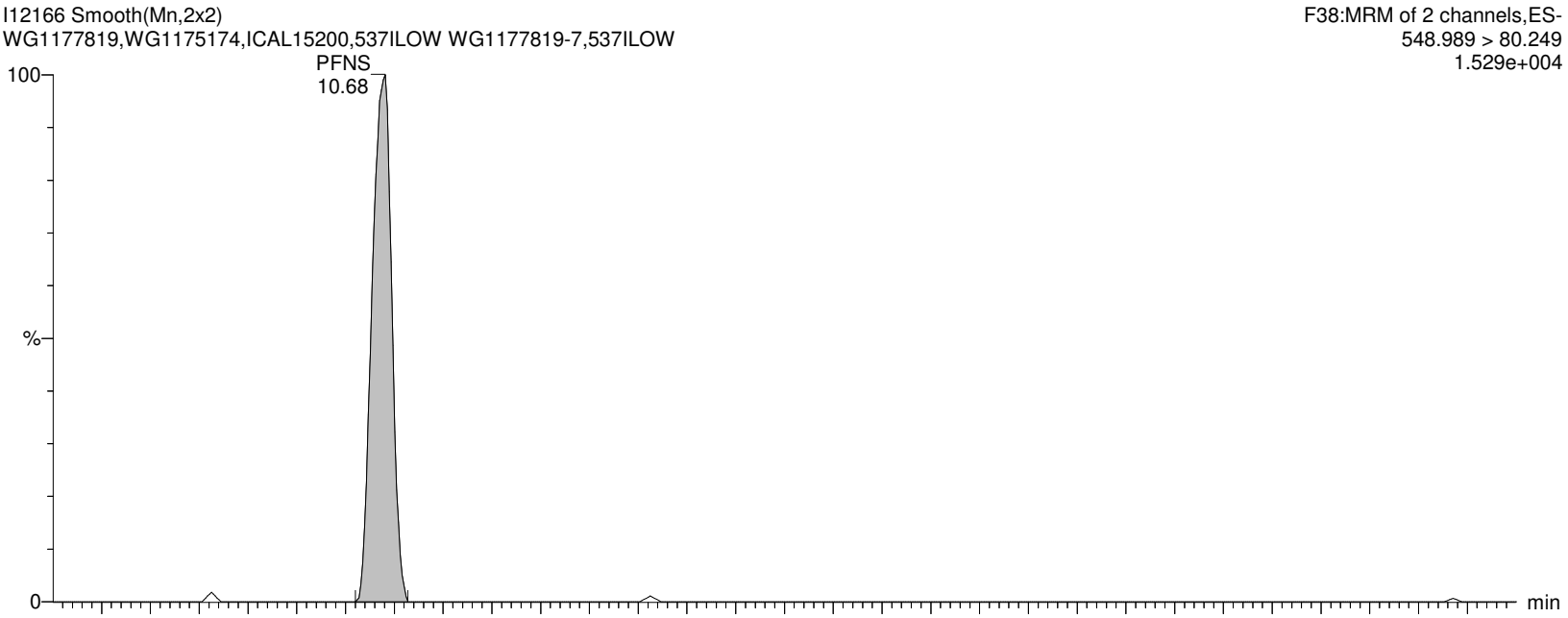

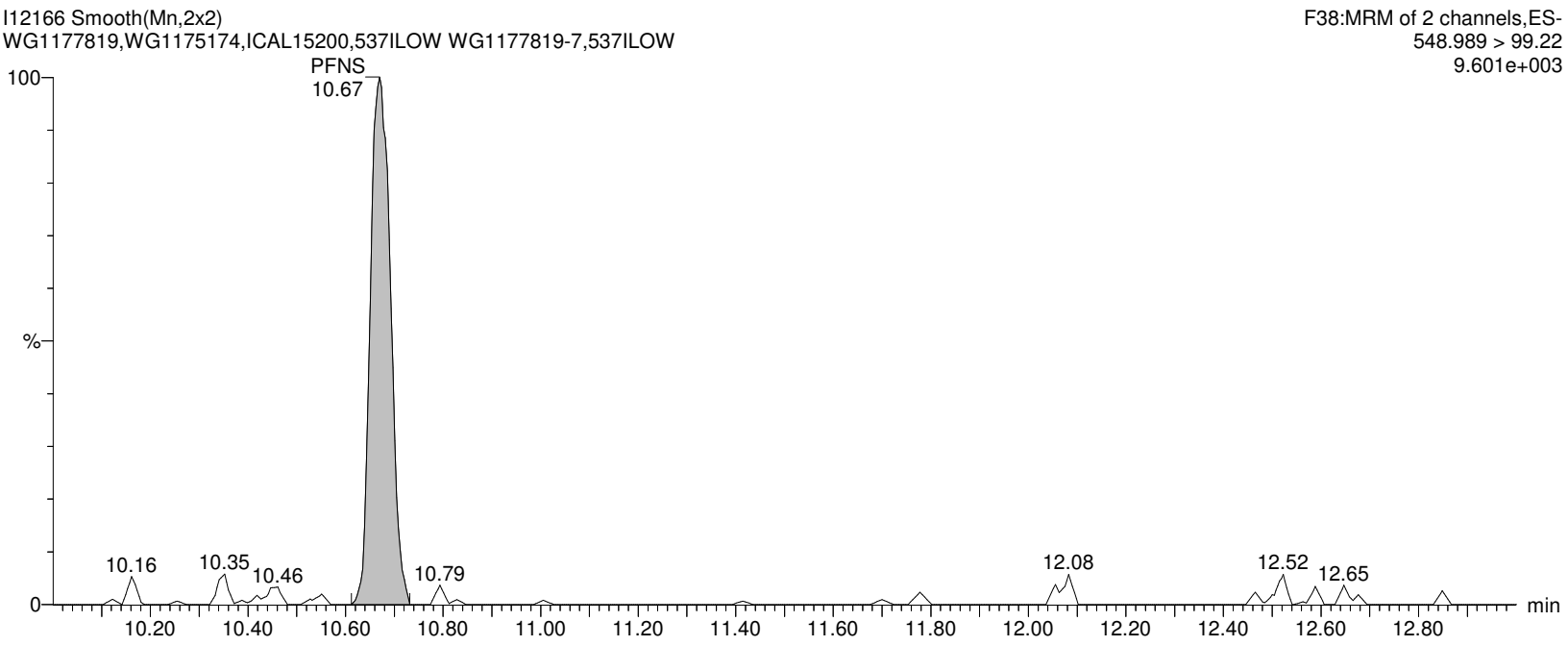

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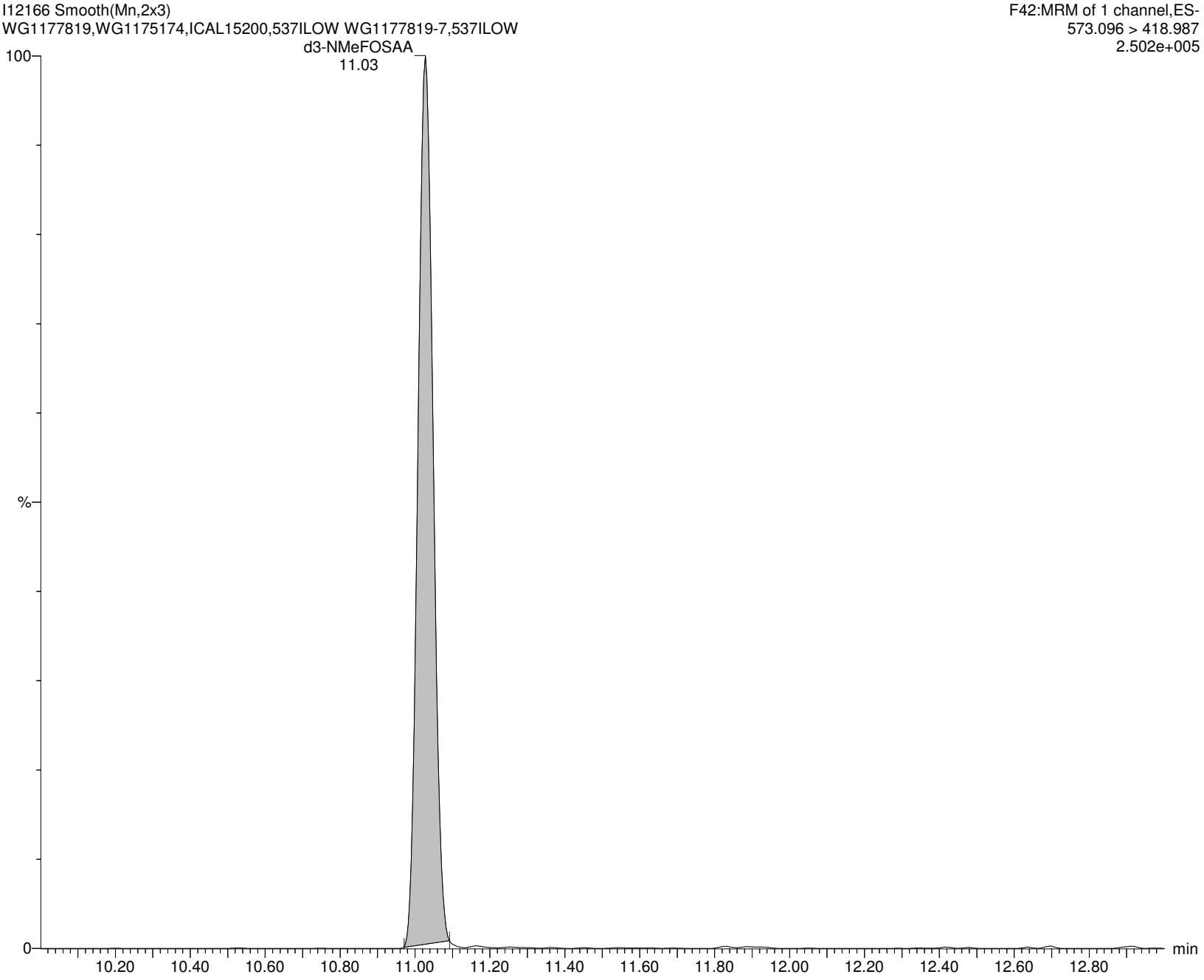

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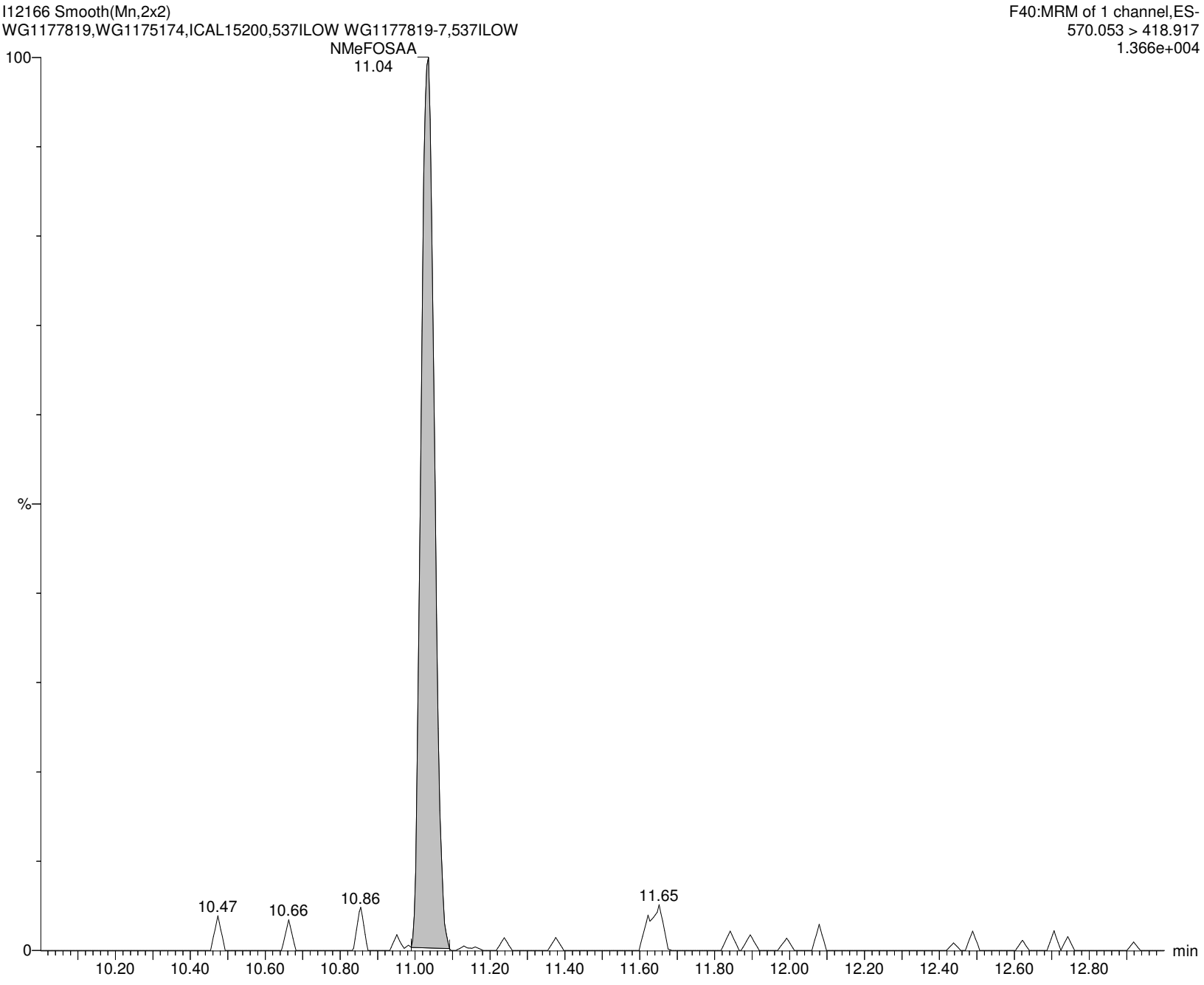

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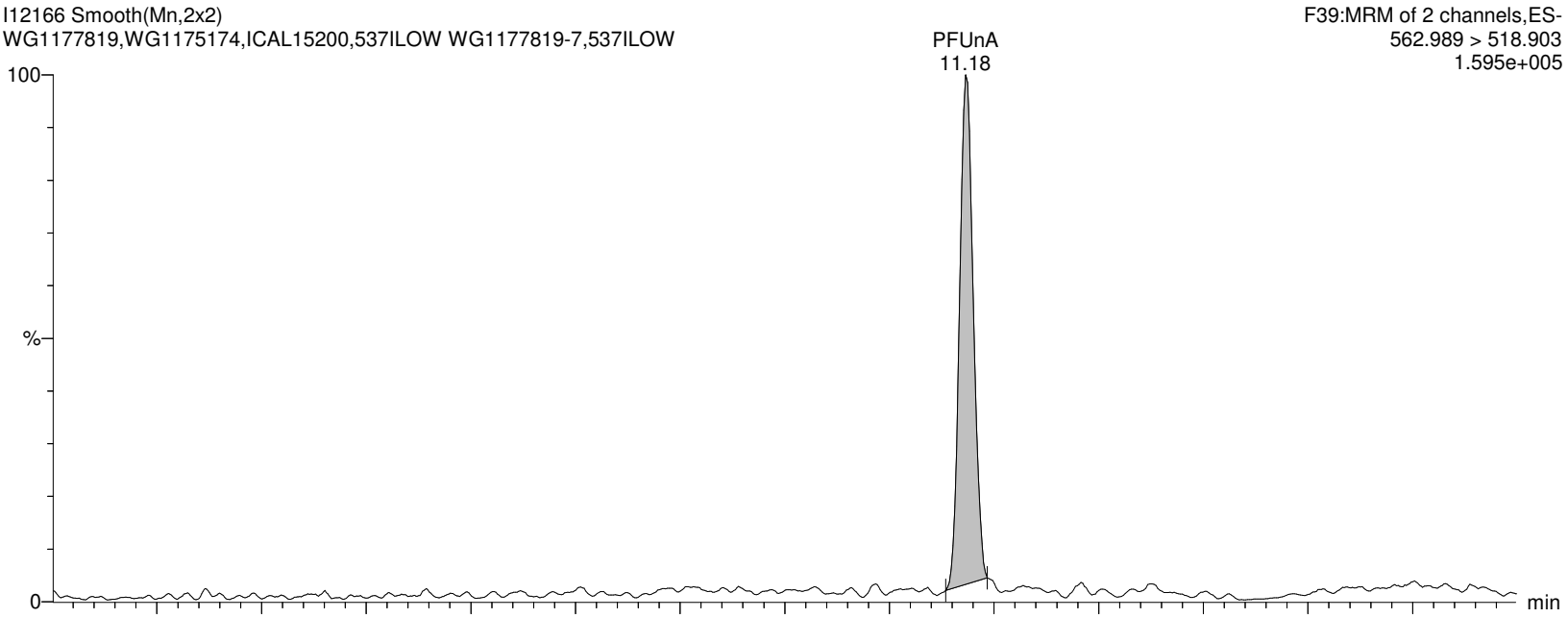

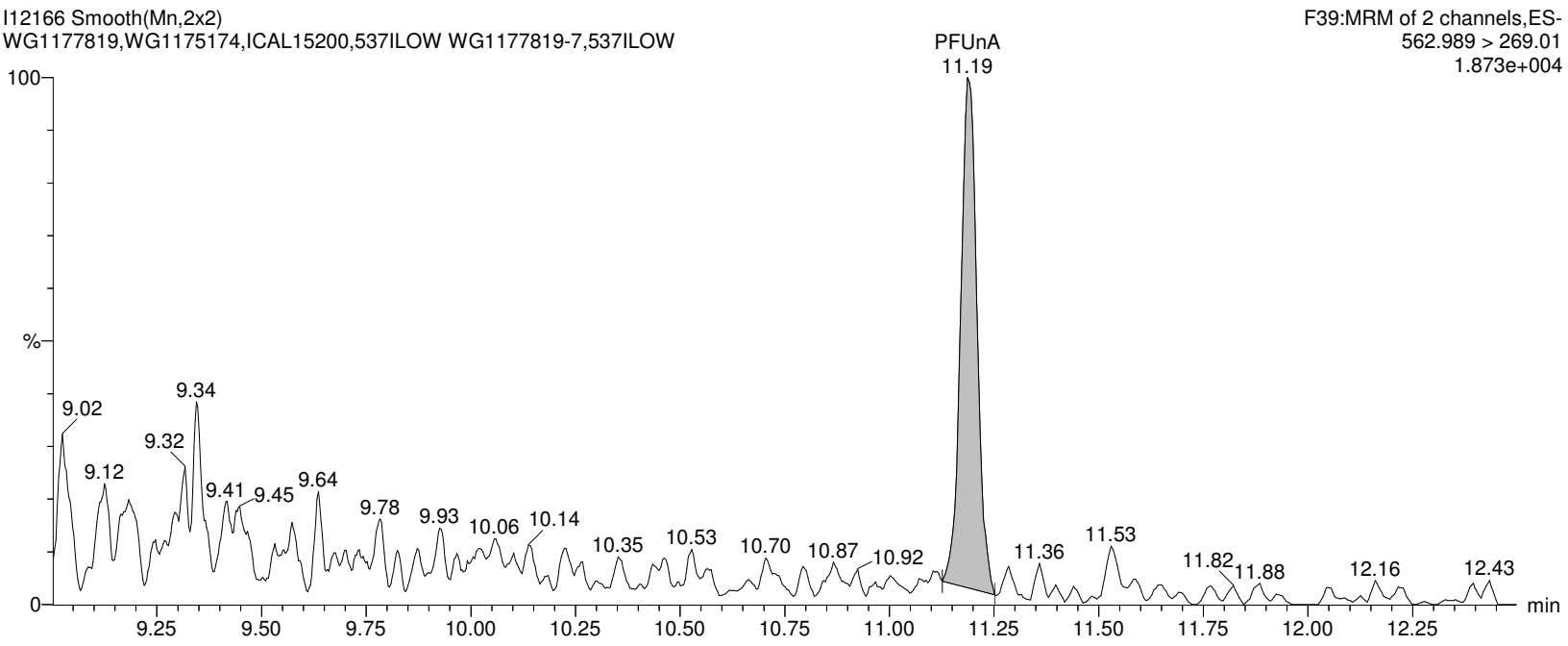

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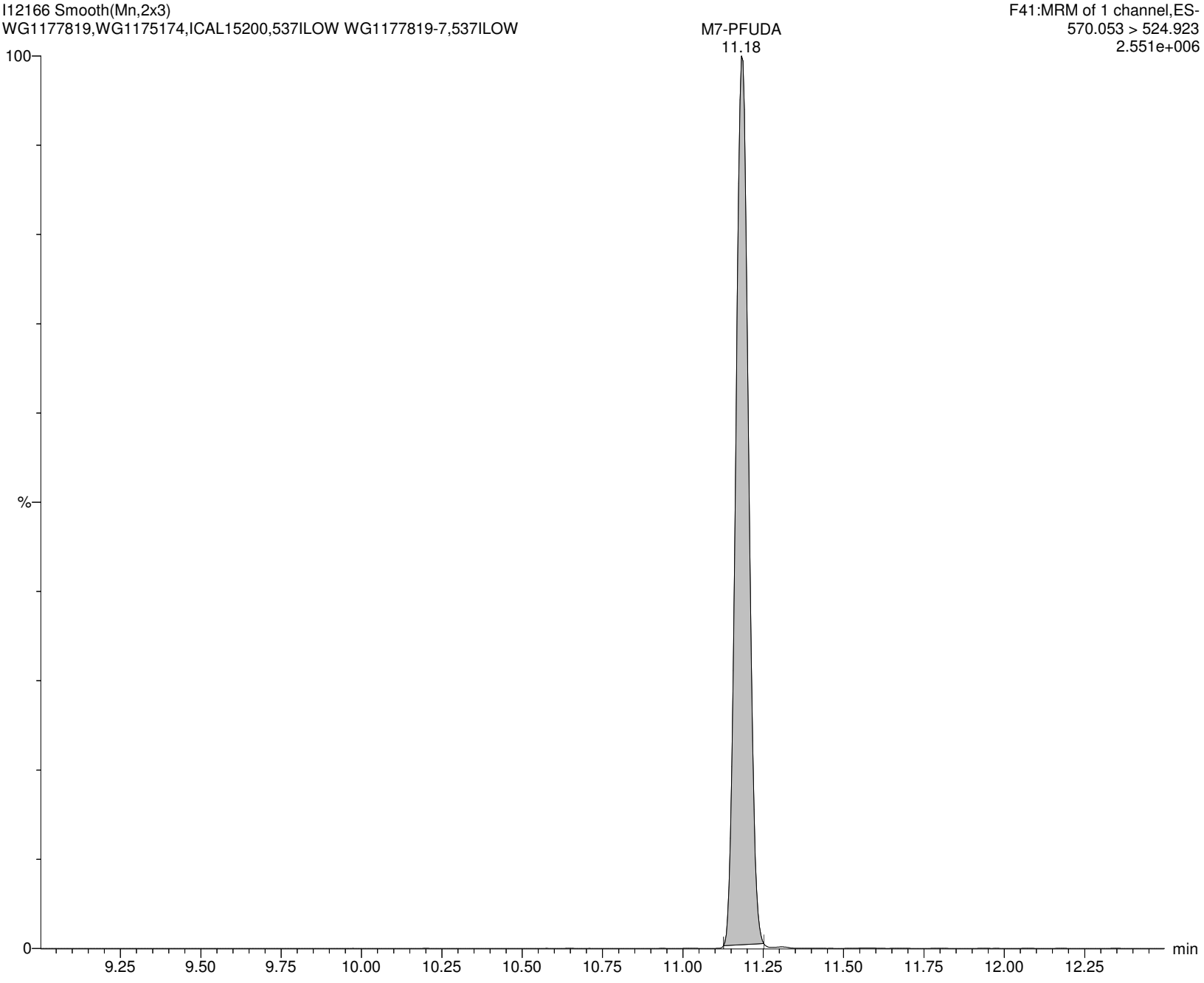

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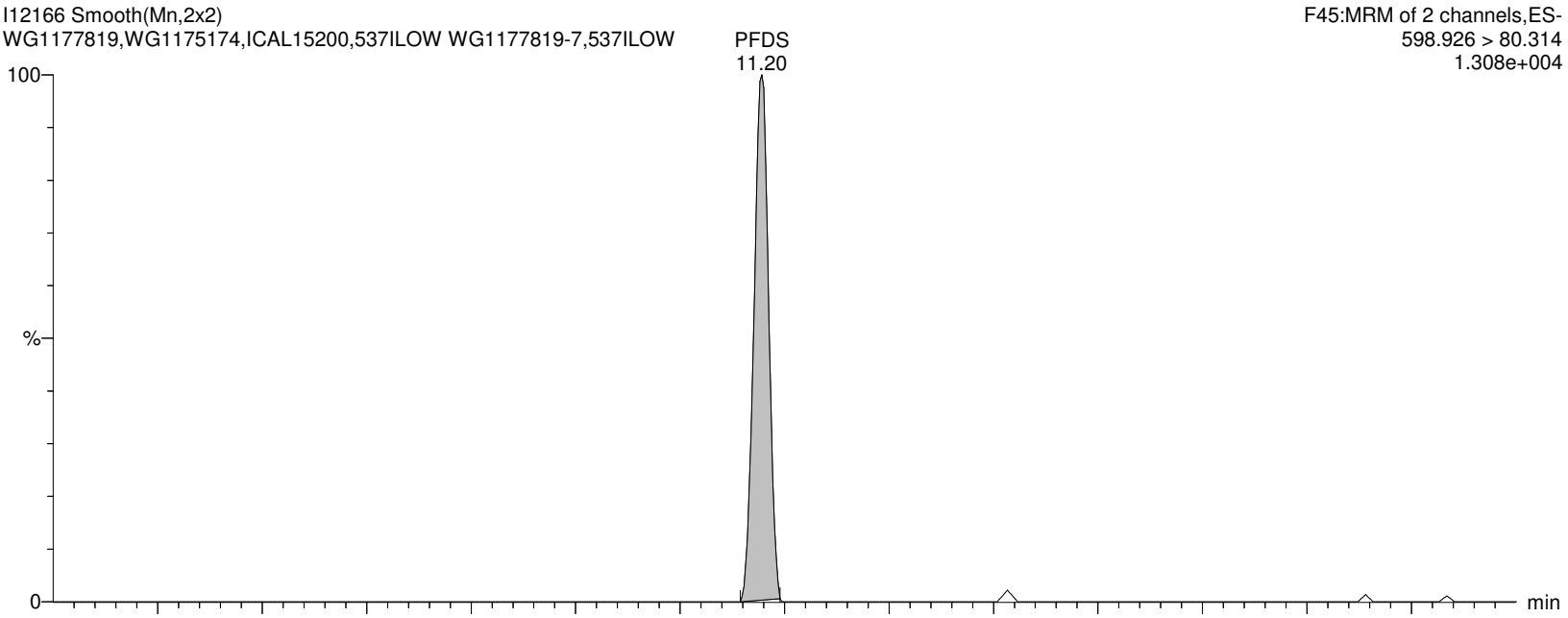

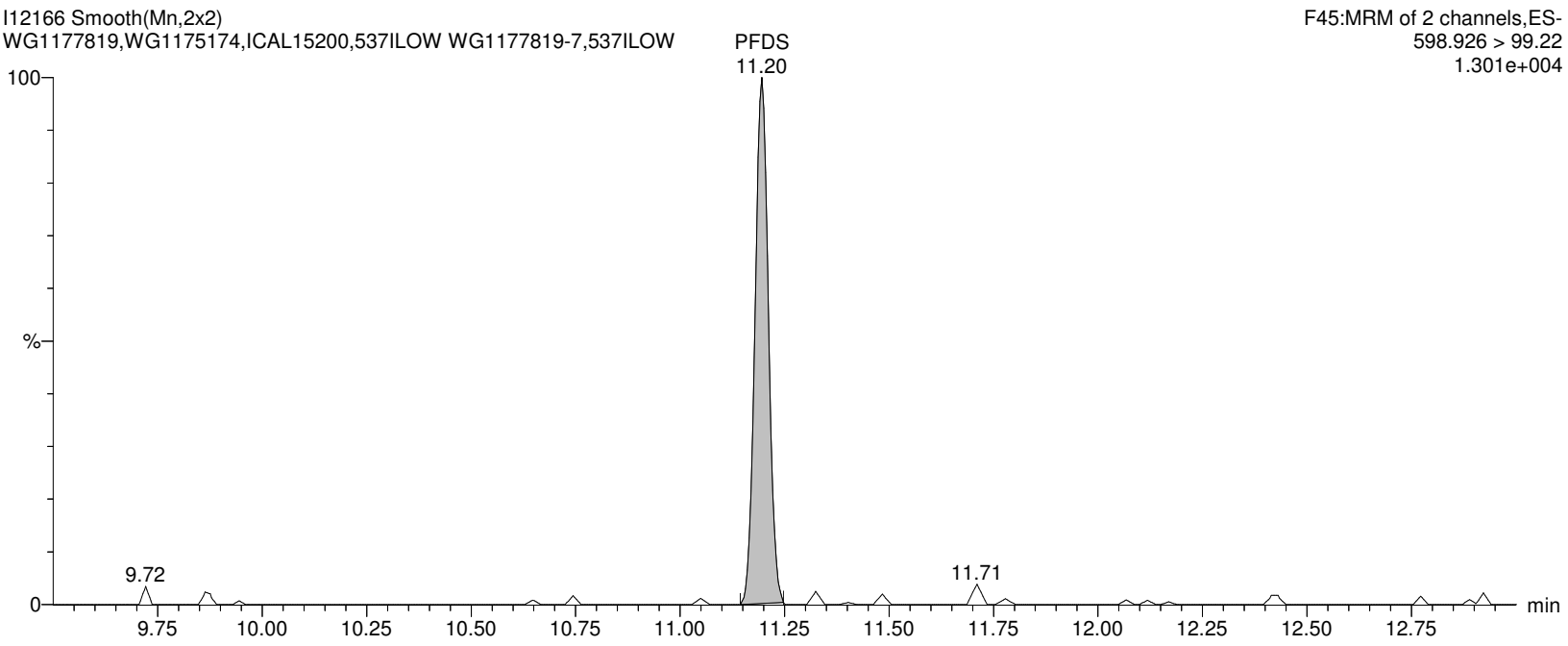

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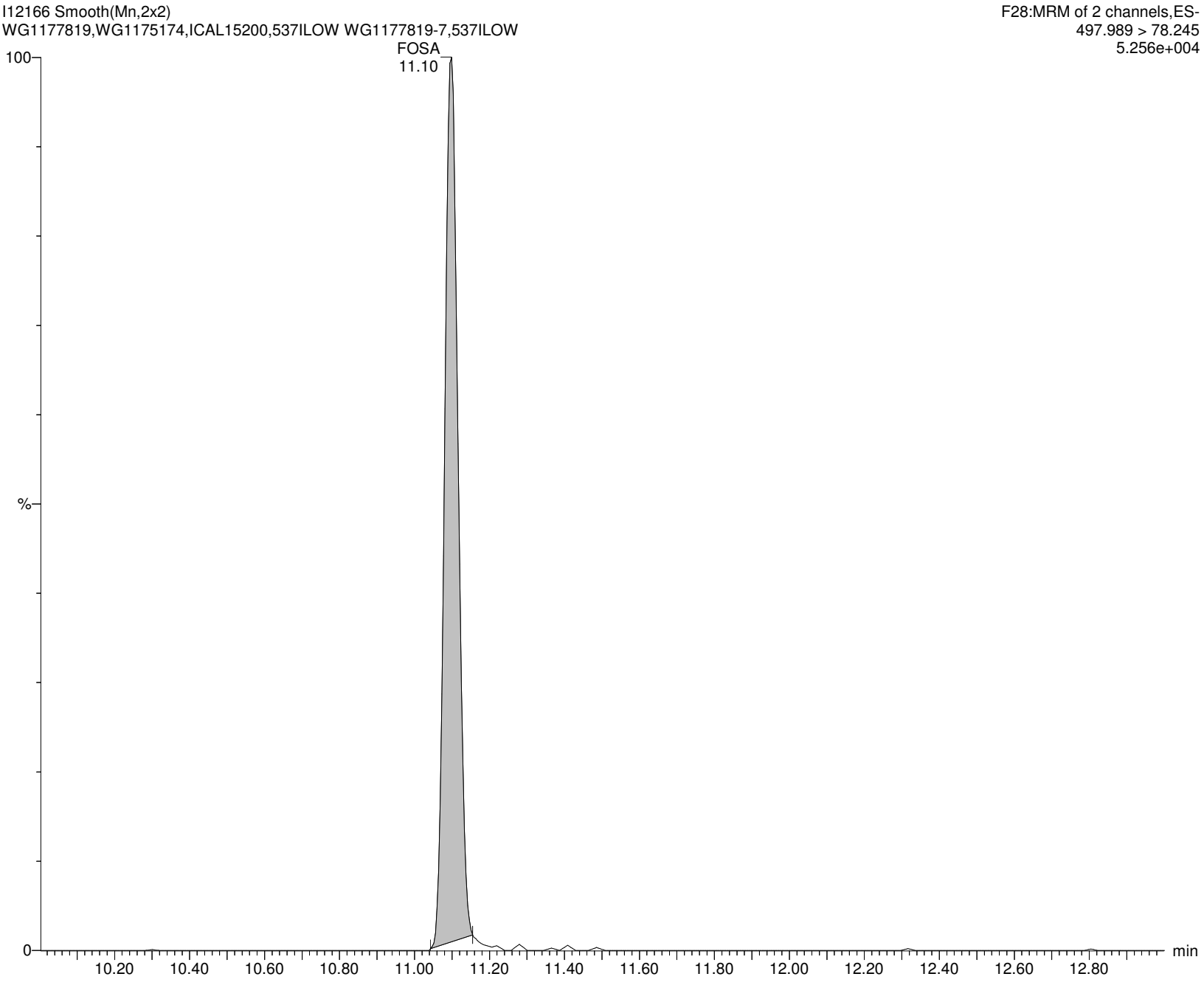

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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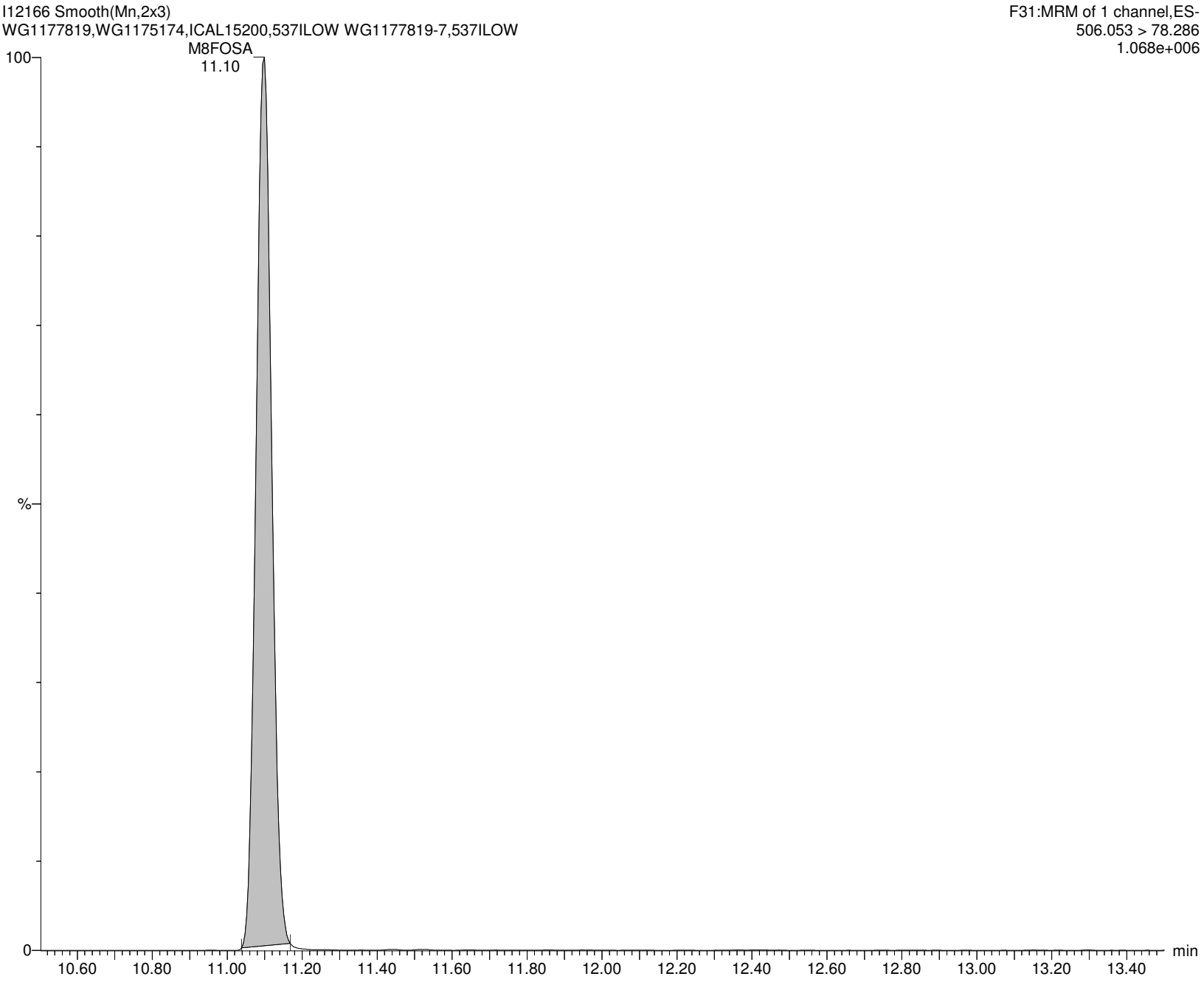

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:16 Eastern Standard Time

Name: I12166
ID: WG1177819-7,537ILOW
Date: 10-Nov-2018
Time: 10:43:44
Description: WG1177819,WG1175174,ICAL15200,537ILOW
User: LCMS01:AJ
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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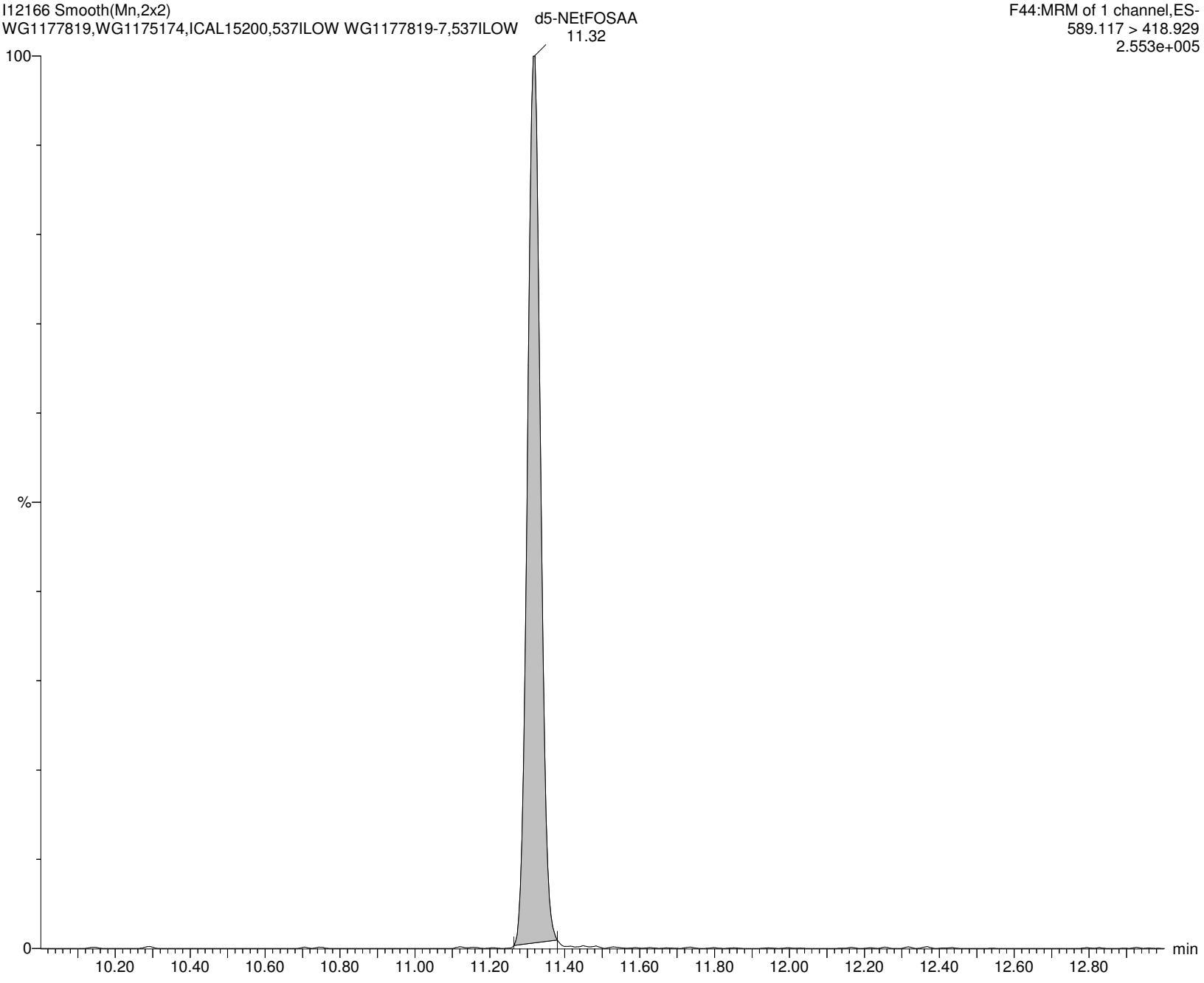

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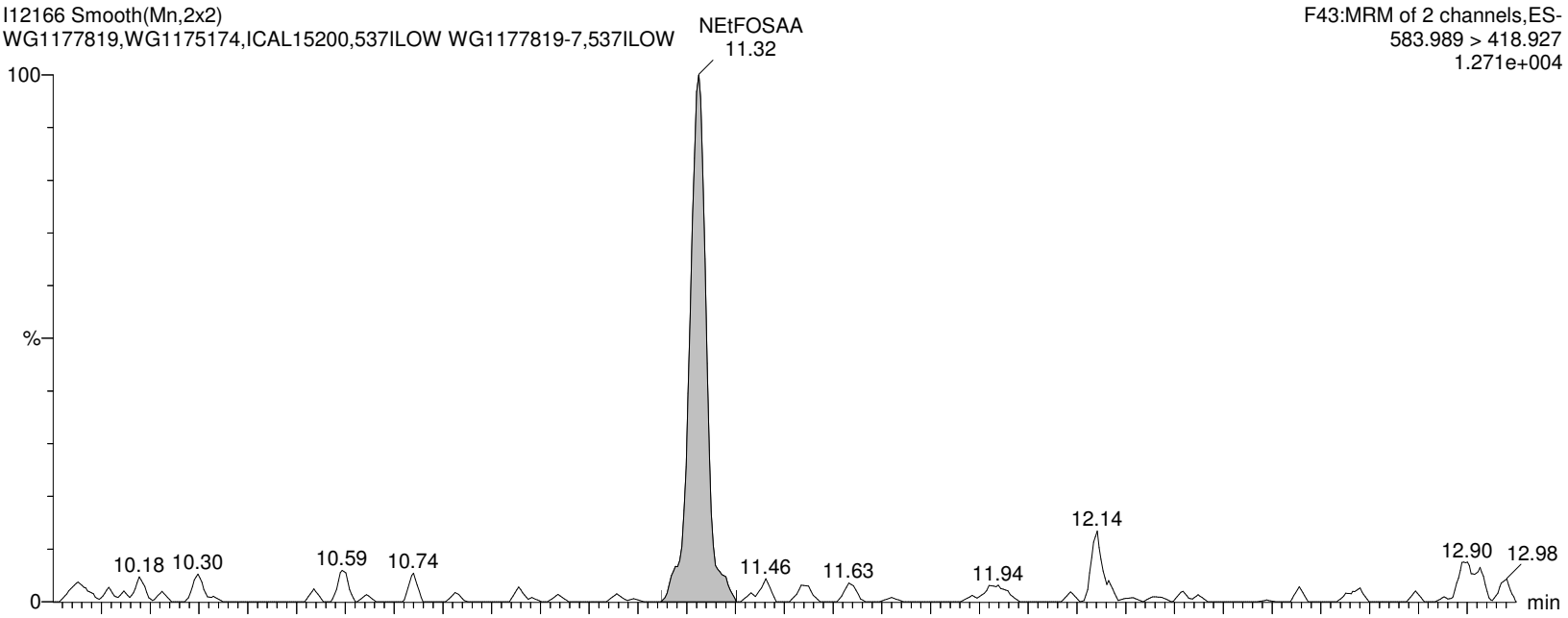

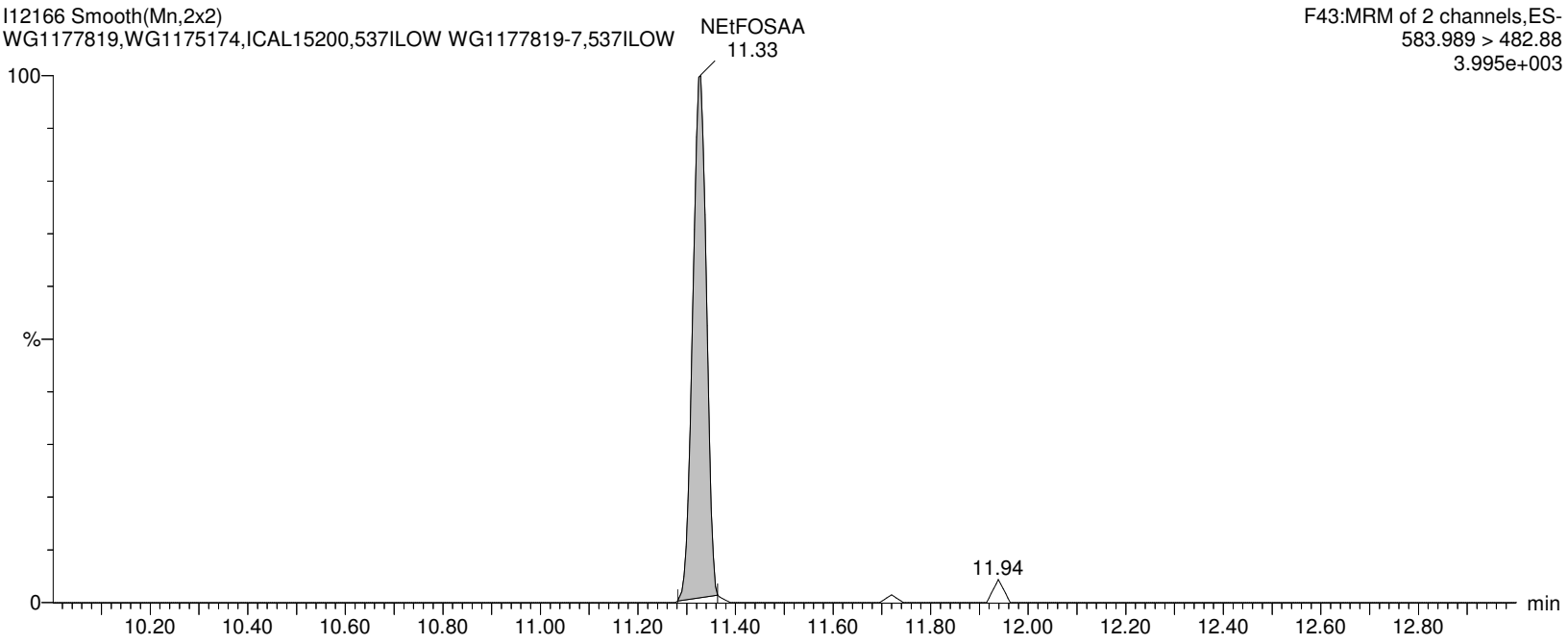

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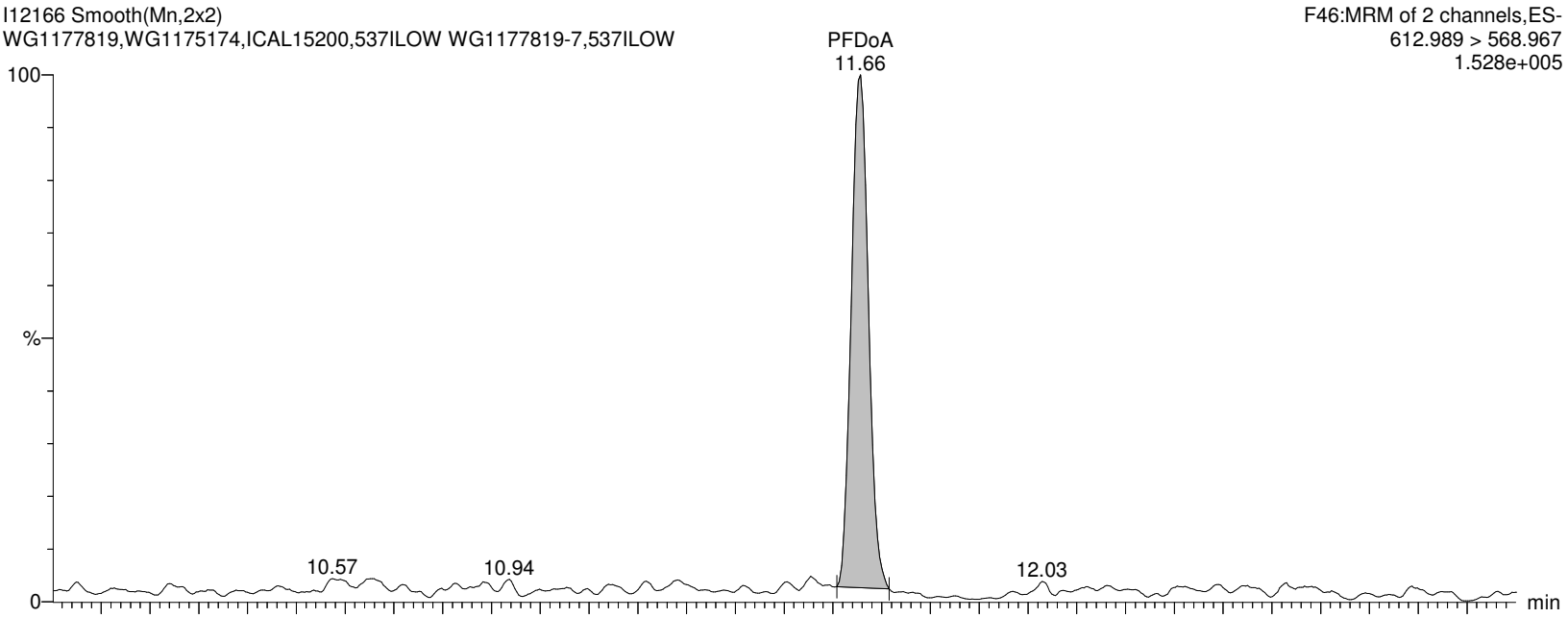

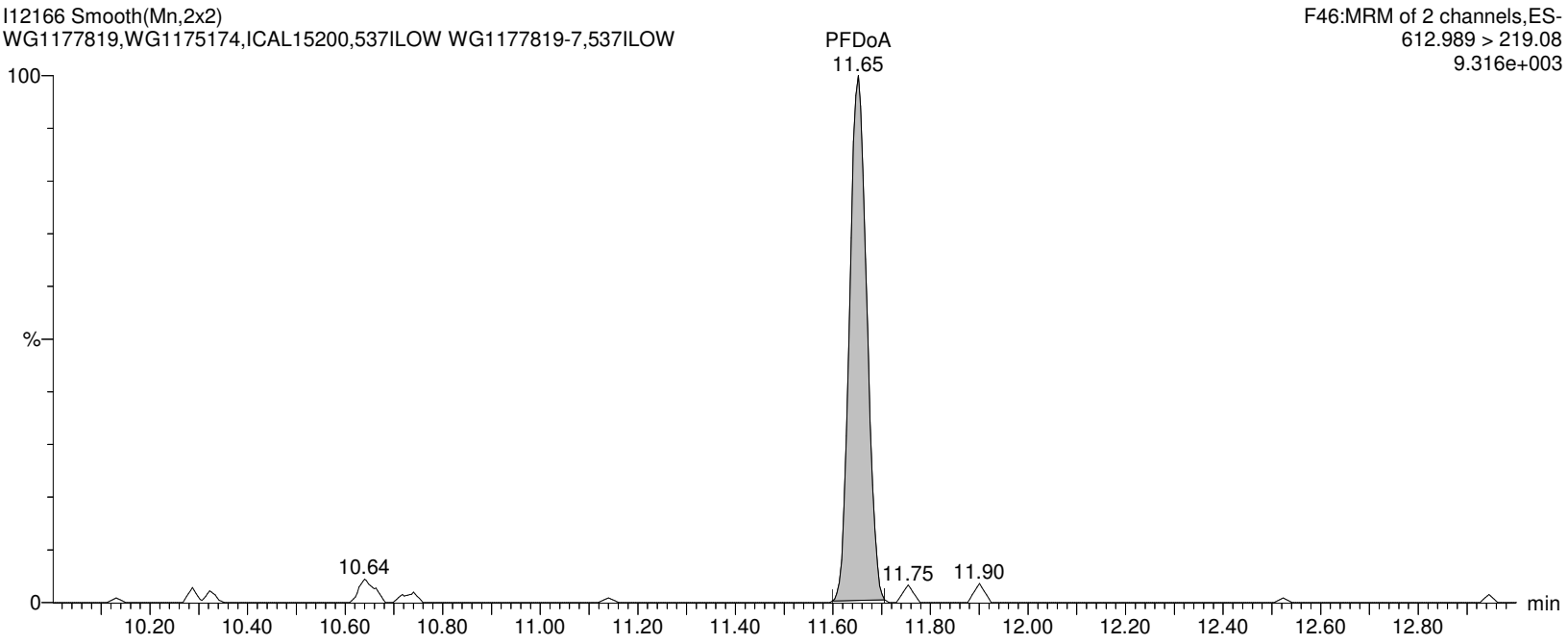

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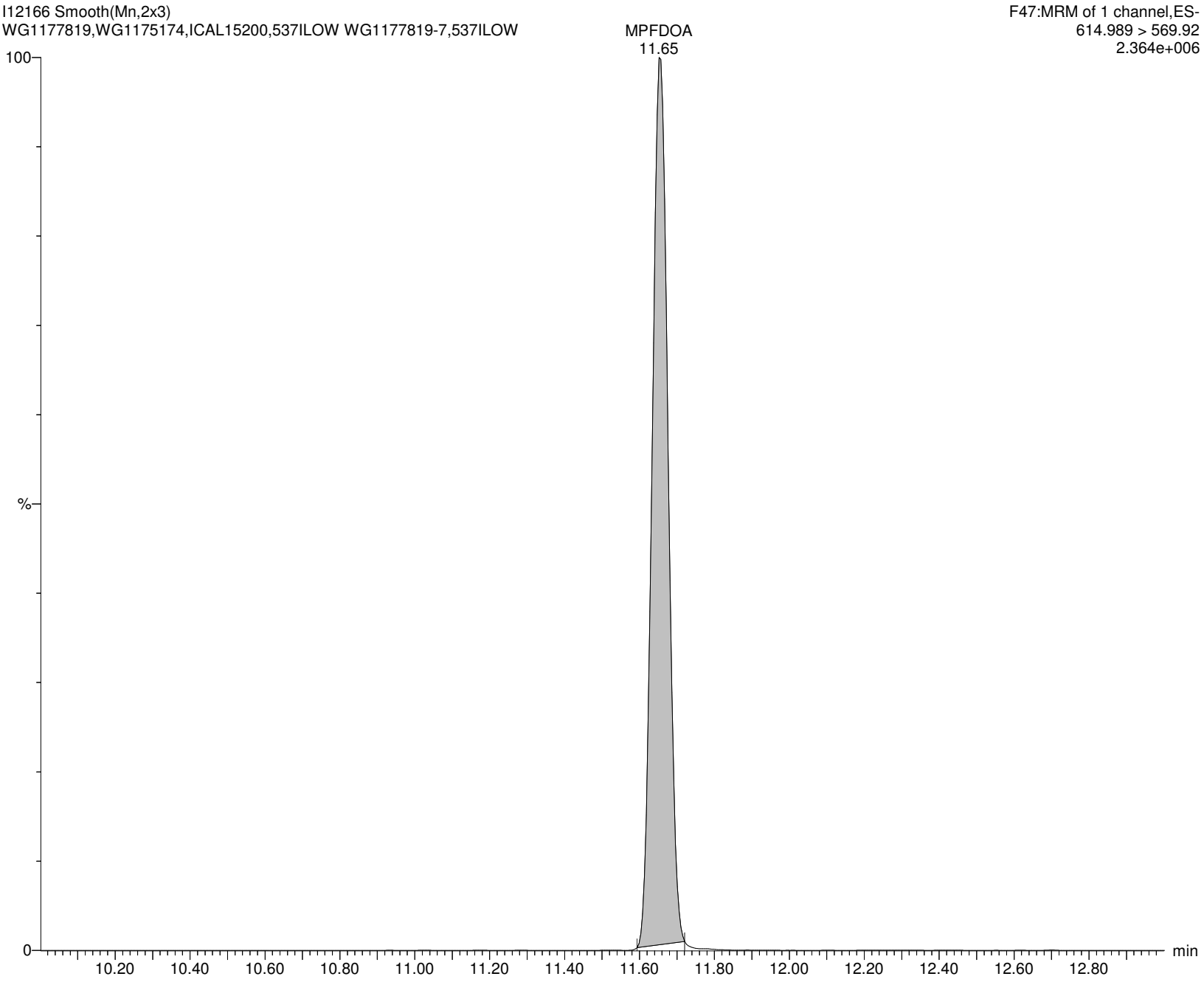

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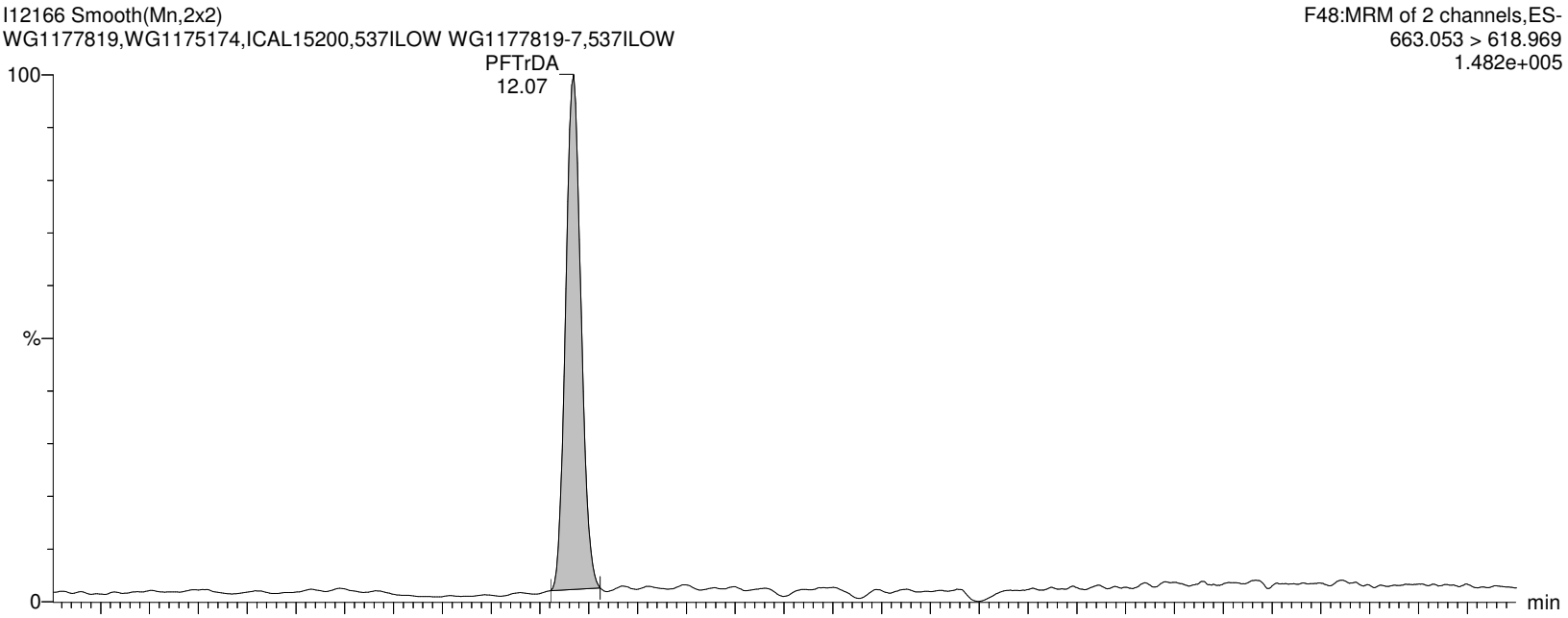

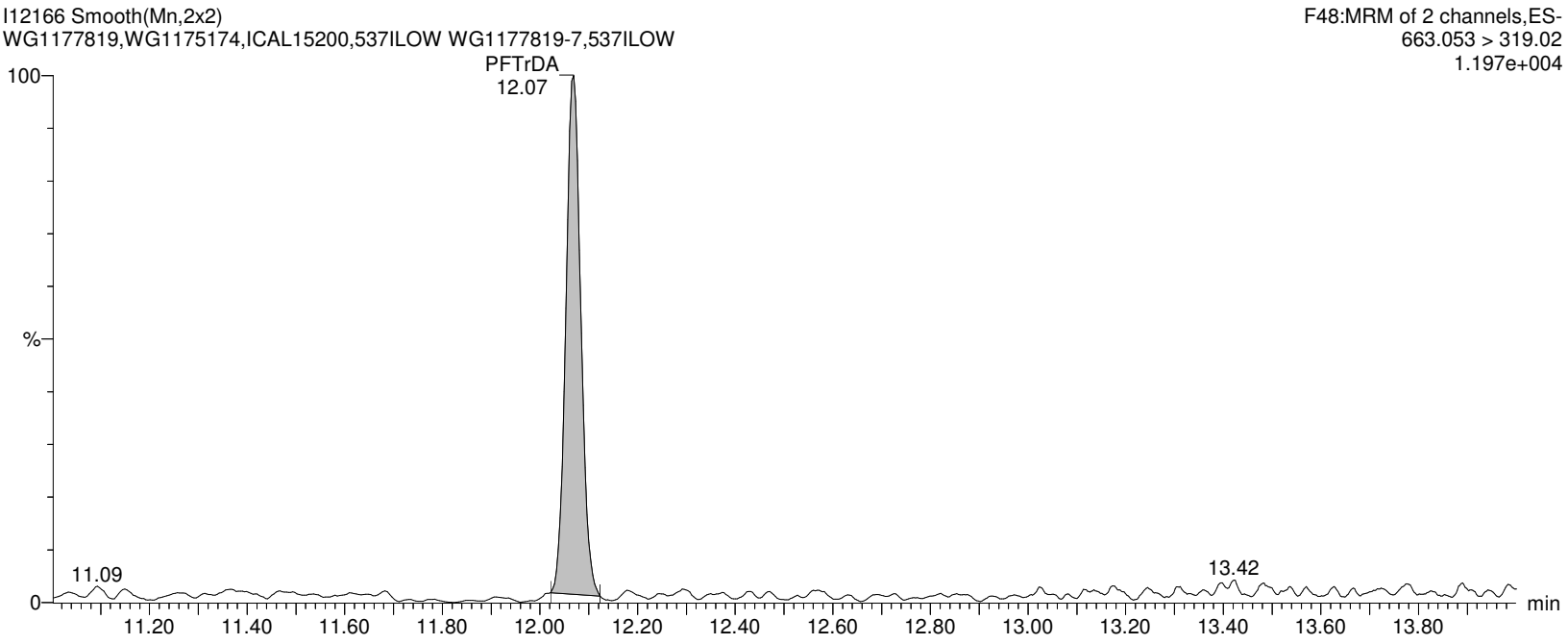

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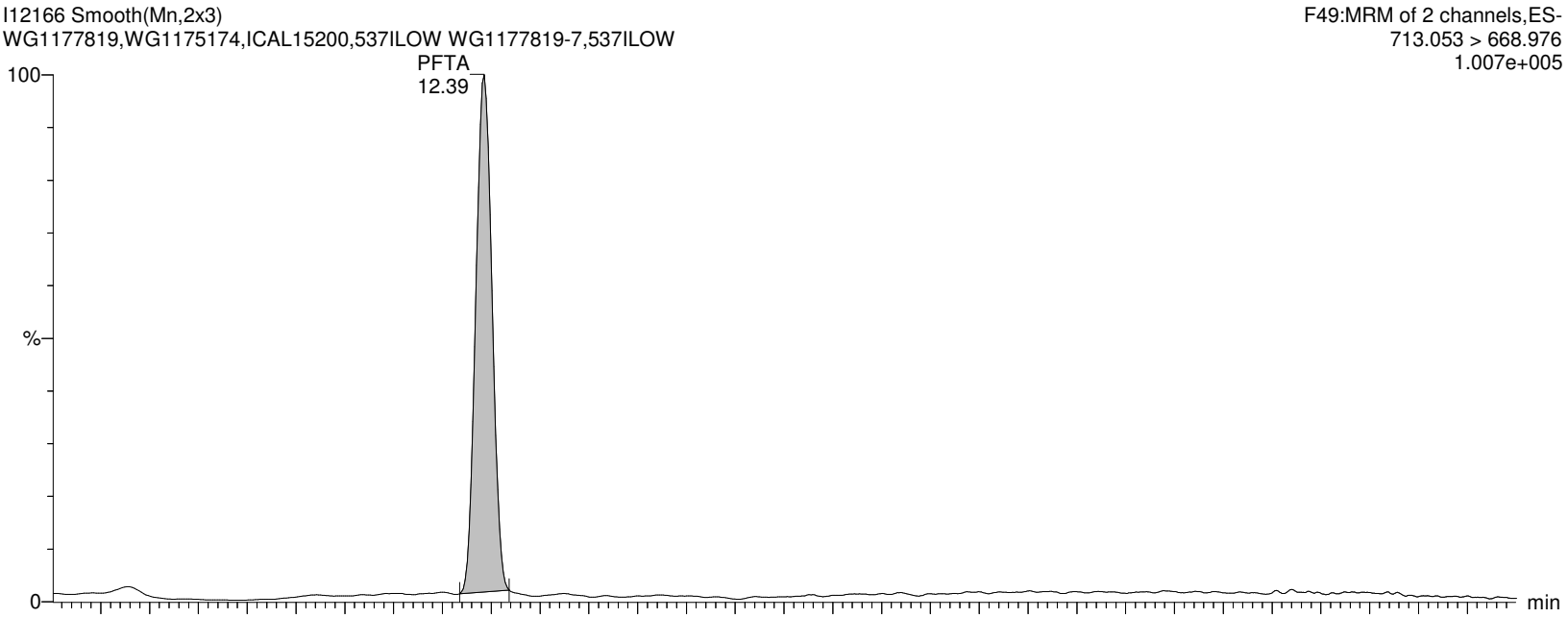

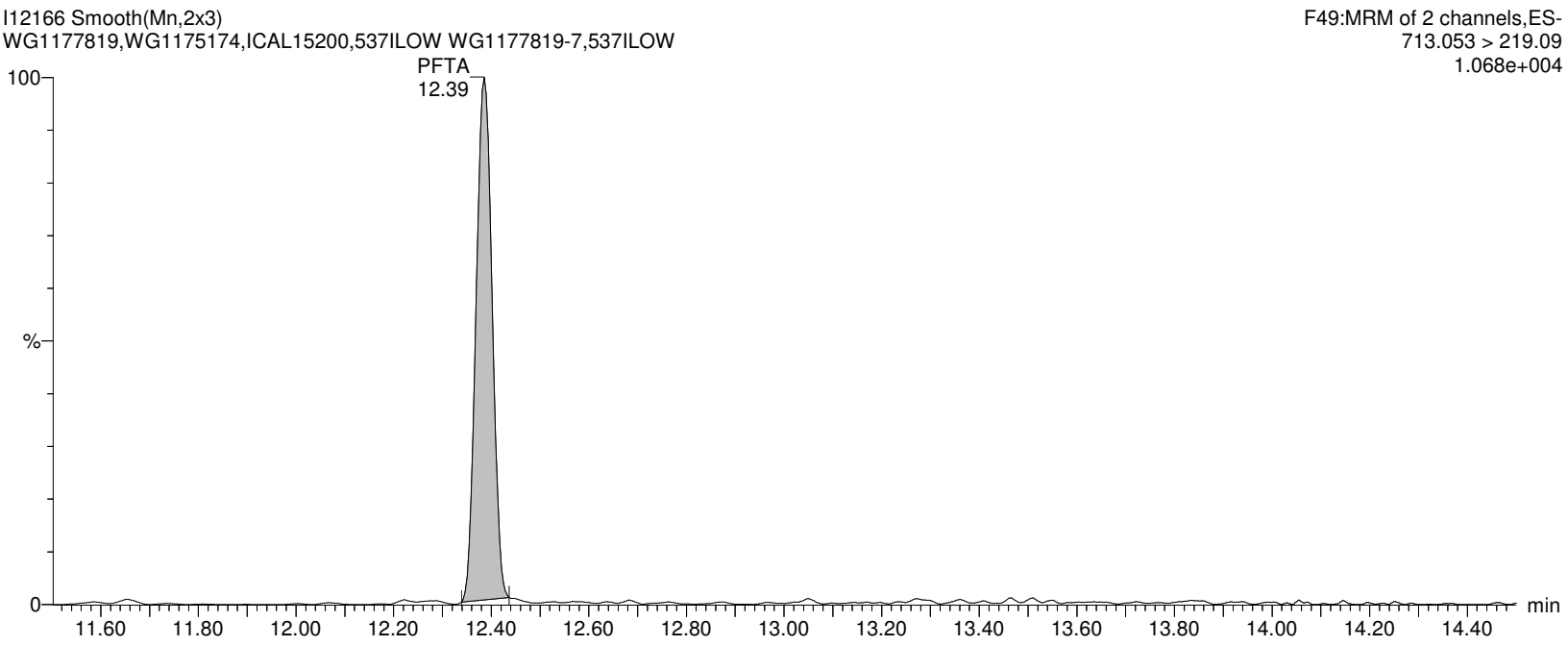

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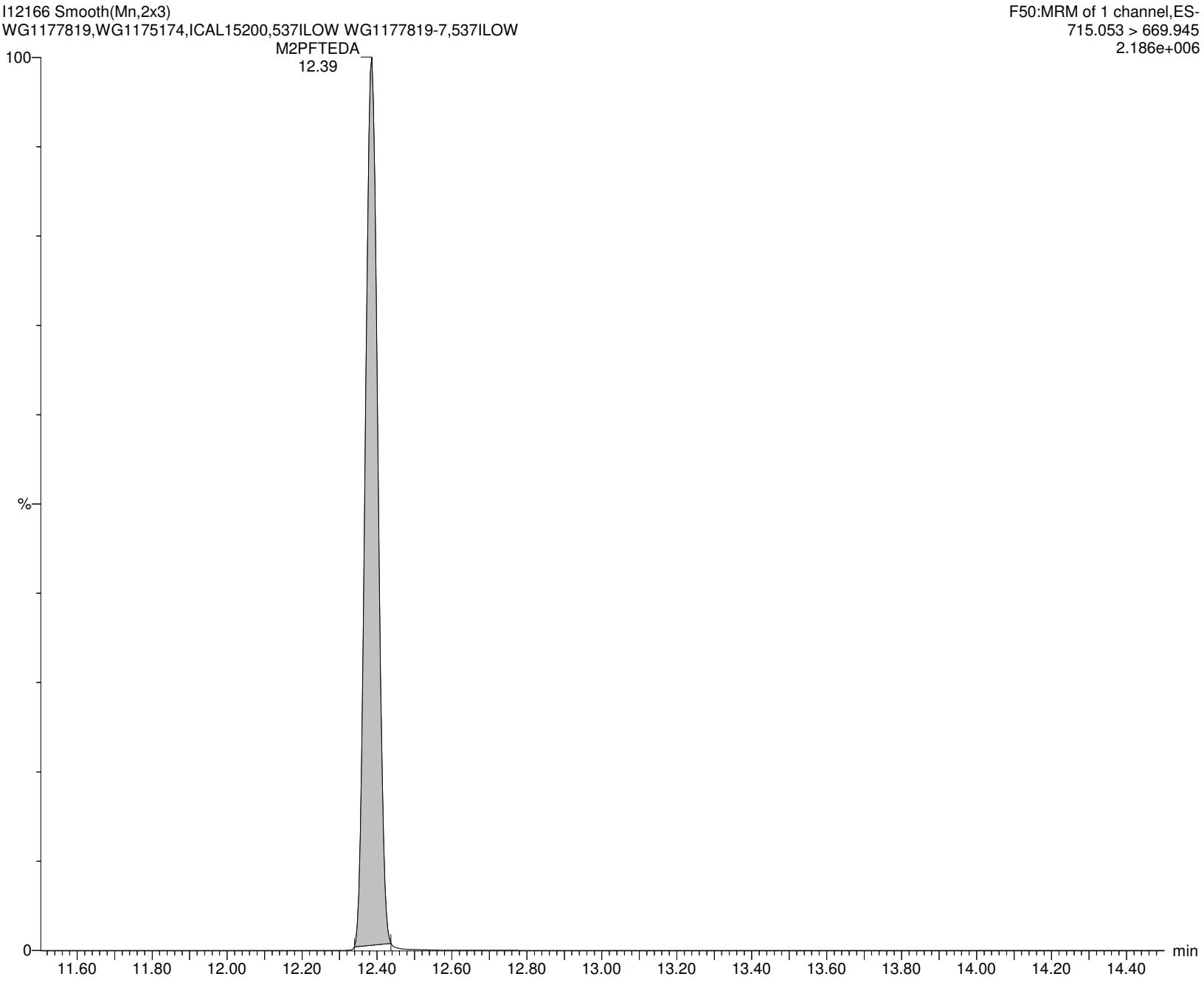

all concentration units in (ng/mL)

Semivolatiles Raw QC Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:05 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: wg1175174-1
Name: I12061
Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	58400		6.309		na	63.1
3	MPFBA	INT STD	2.15	216.926 > 172.137	69892		12.599		na	126.0
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	83161		11.617		na	116.2
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	14868		10.274		na	102.7
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8398		9.356		na	93.6
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	94867		11.327		na	113.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	120895		12.276		na	122.8
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	11165		13.891		na	138.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	568		0.049		na	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	116258		6.157		na	61.6
22	PFOA	335-67-1		412.989 > 368.9	568		0.049		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	118311		12.619		na	126.2
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	7618		10.225		na	102.2
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	10.03	472.053 > 426.947	109109		11.668		na	116.7
29	br-PFOS	1763-23-1	9.90	498.989 > 80.294	39		0.021	1.05	YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND	0.00	YES	
31	PFOS	1763-23-1		498.989 > 80.294	39		0.021		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	11608		7.166		na	71.7
33	M8PFOS	INT STD	10.08	507.053 > 80.294	12818		11.841		na	118.4
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	92375		6.214		na	62.1
36	M6PFDA	INT STD	10.65	519.053 > 473.931	96438		11.563		na	115.6
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	4751		10.859		na	108.6
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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ID: wg1175174-1
Name: I12061
Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	9540		10.610		na	106.1
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	88834		12.725		na	127.2
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	7357		2.472		na	24.7
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	8177		9.428		na	94.3
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.67	614.989 > 569.92	81320		10.368		na	103.7
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7	12.39	713.053 > 668.976	184		0.038		na	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	58319		10.038		na	100.4

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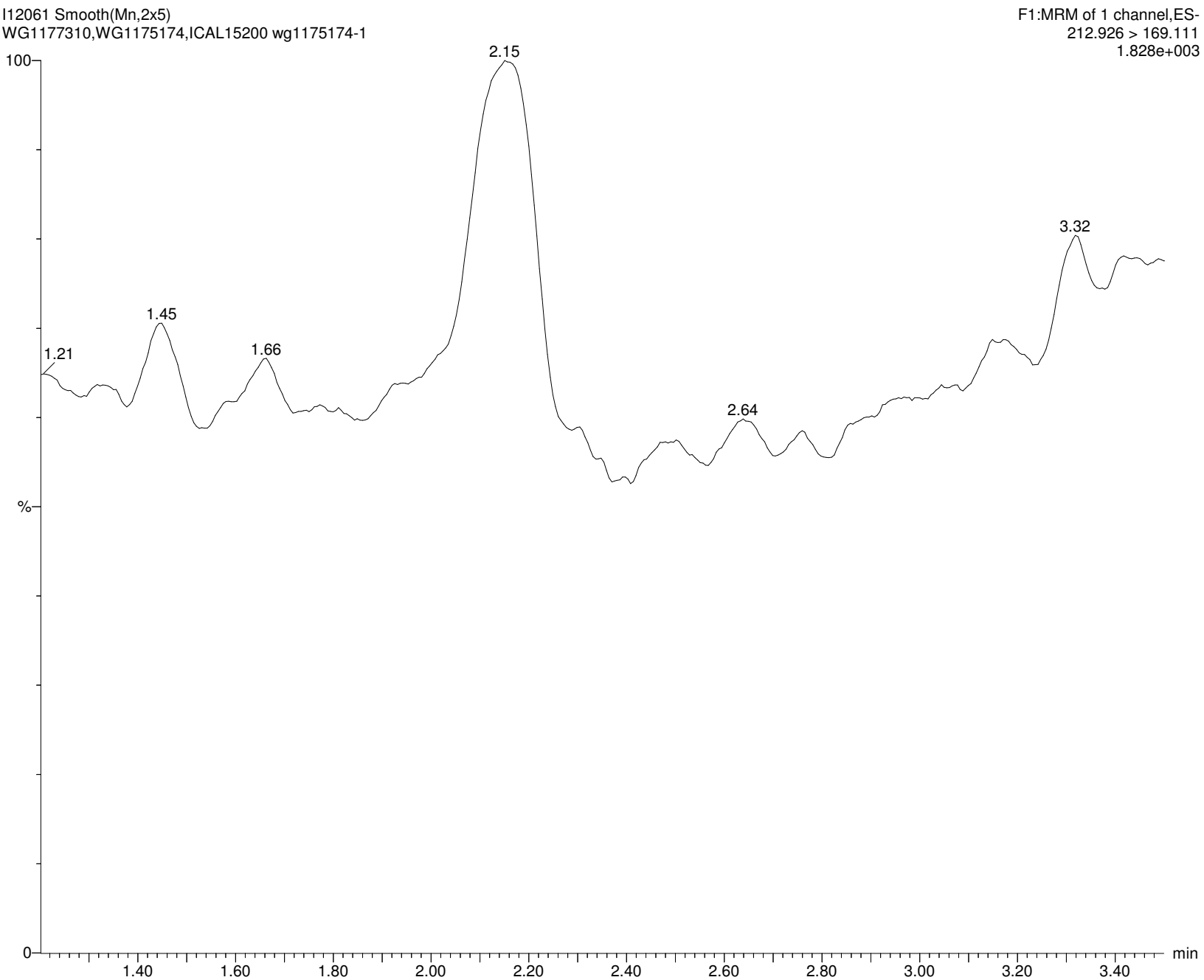

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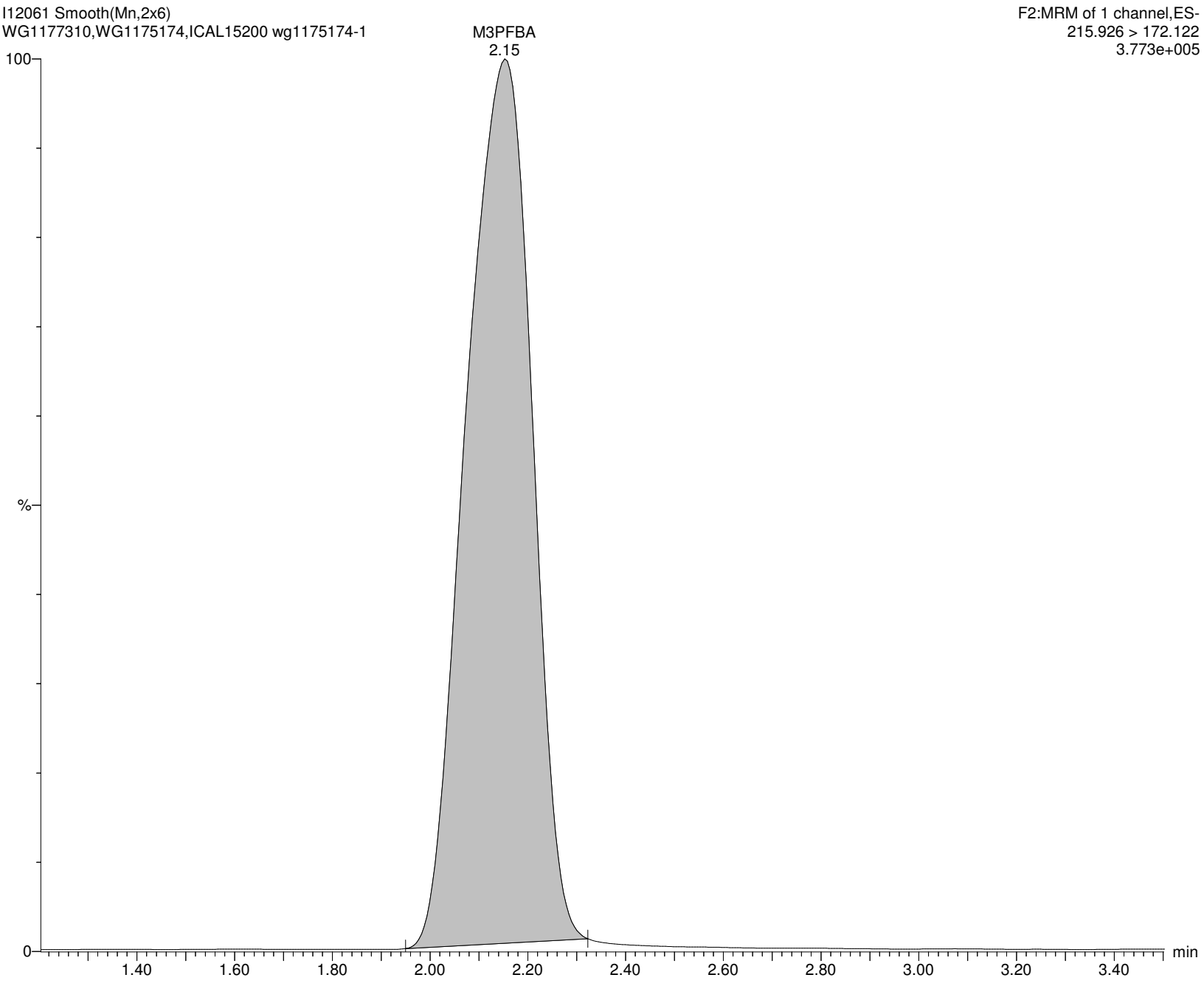

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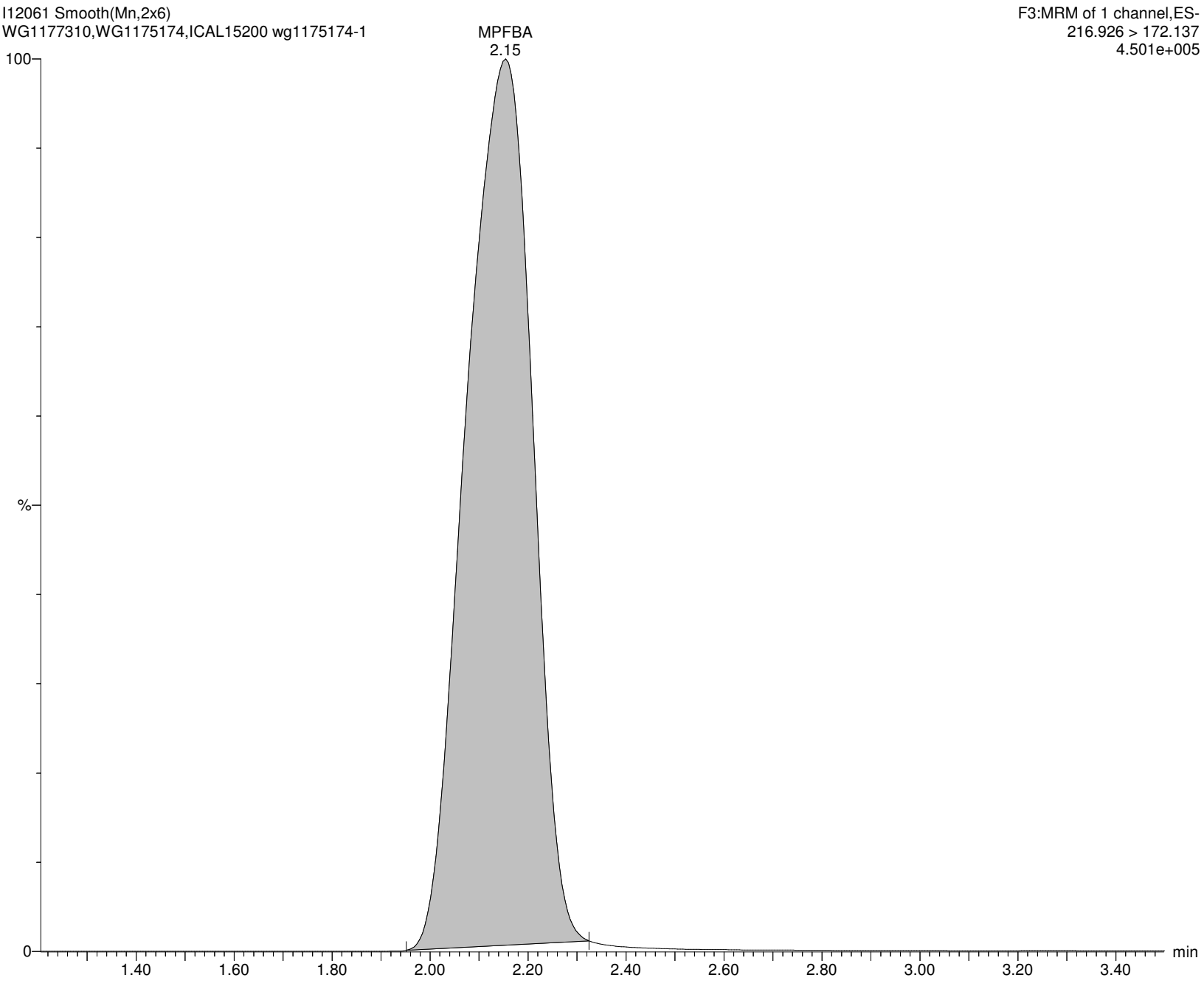

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Vial: 2:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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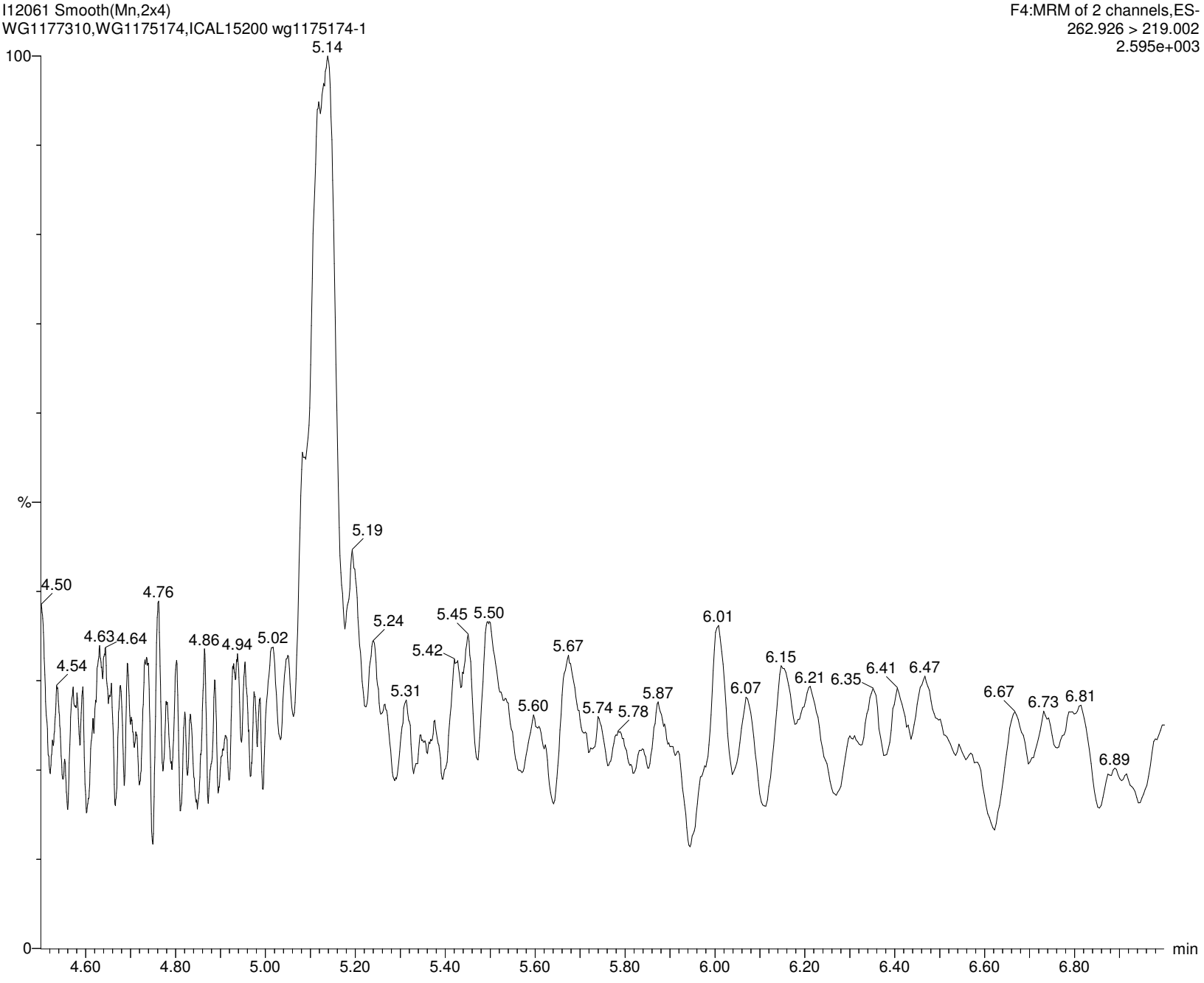

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:05 Eastern Standard Time

Name: I12061
ID: wg1175174-1
Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
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Vial: 2:B,6
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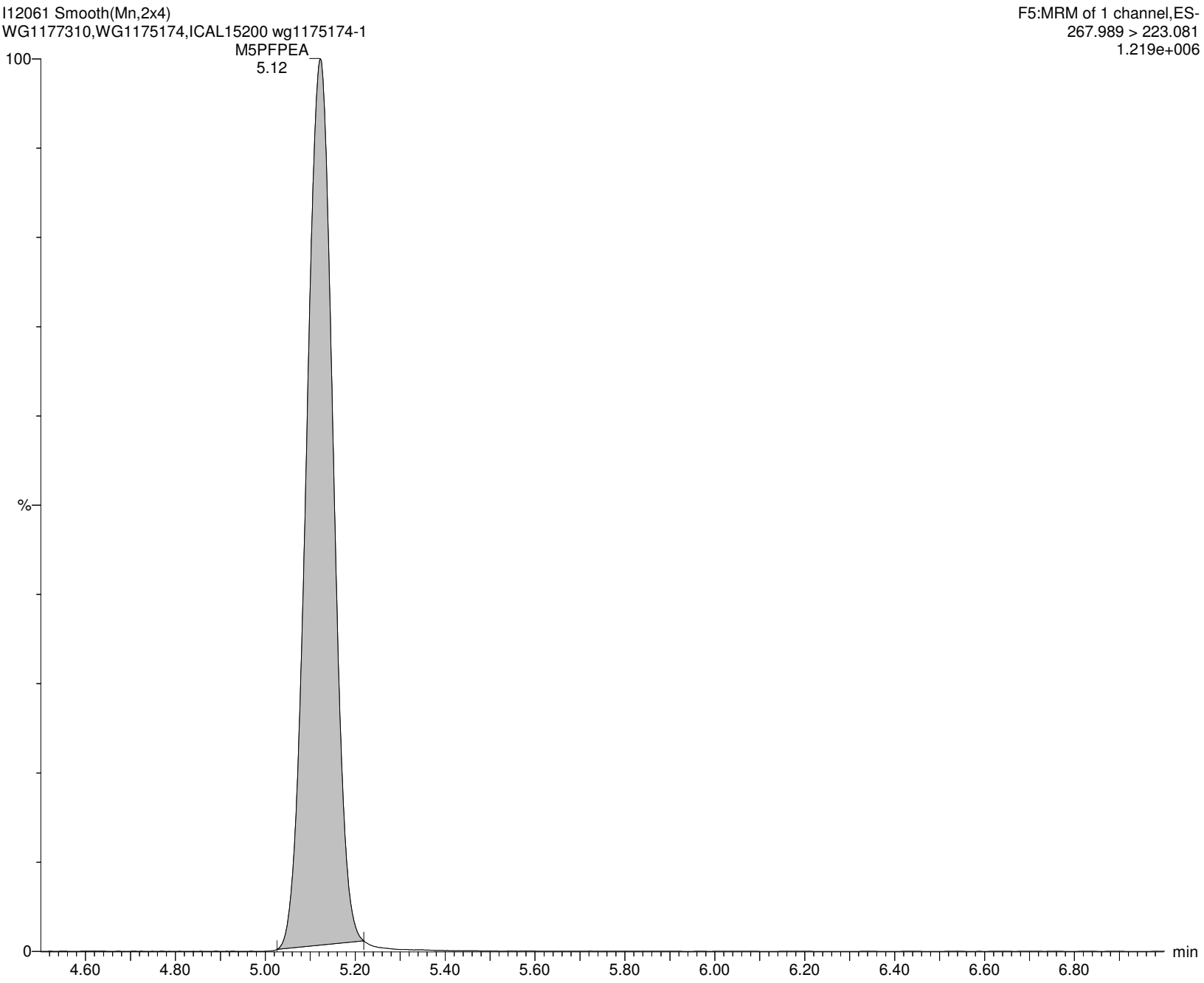

all concentration units in (ng/mL)

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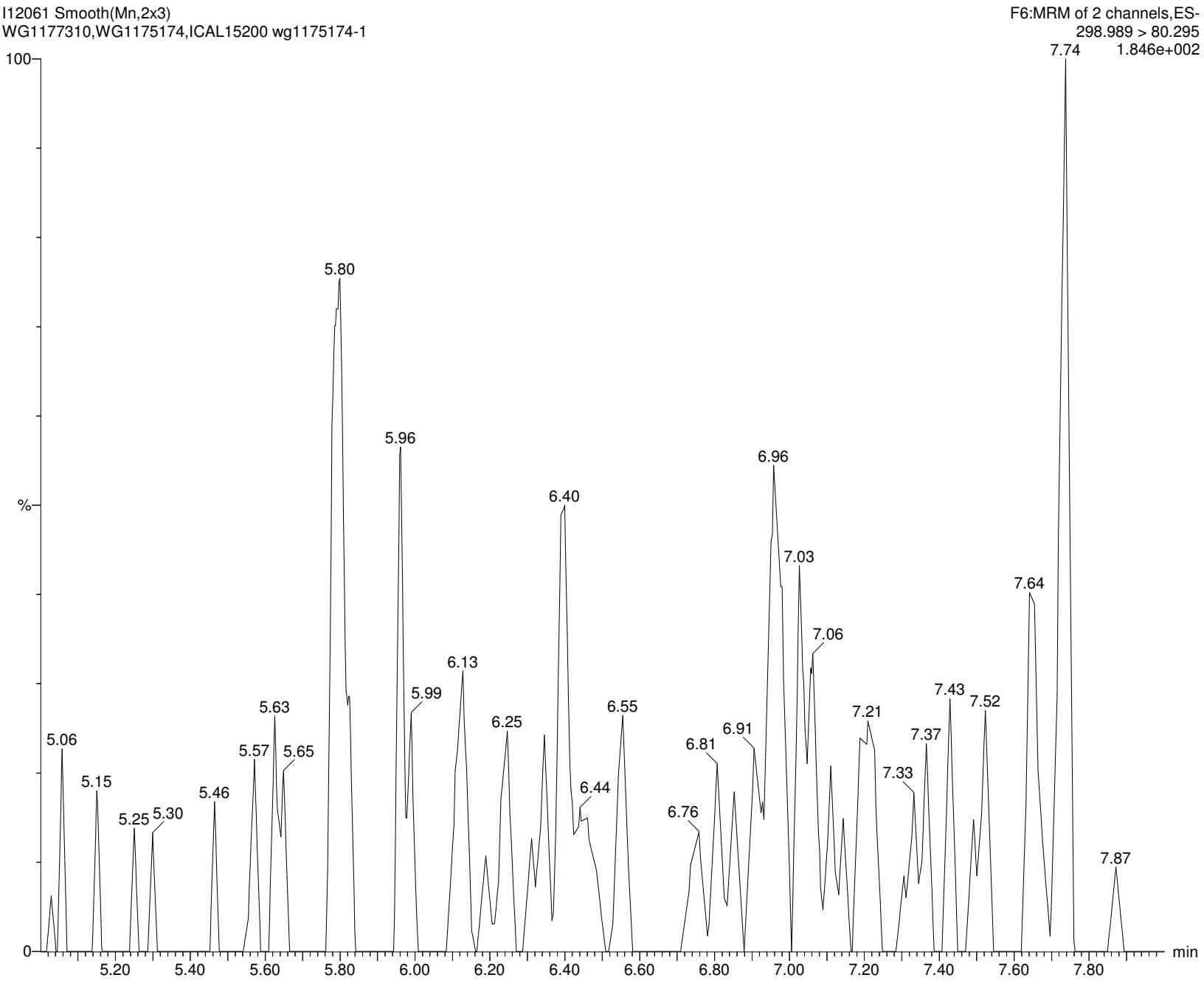

all concentration units in (ng/mL)

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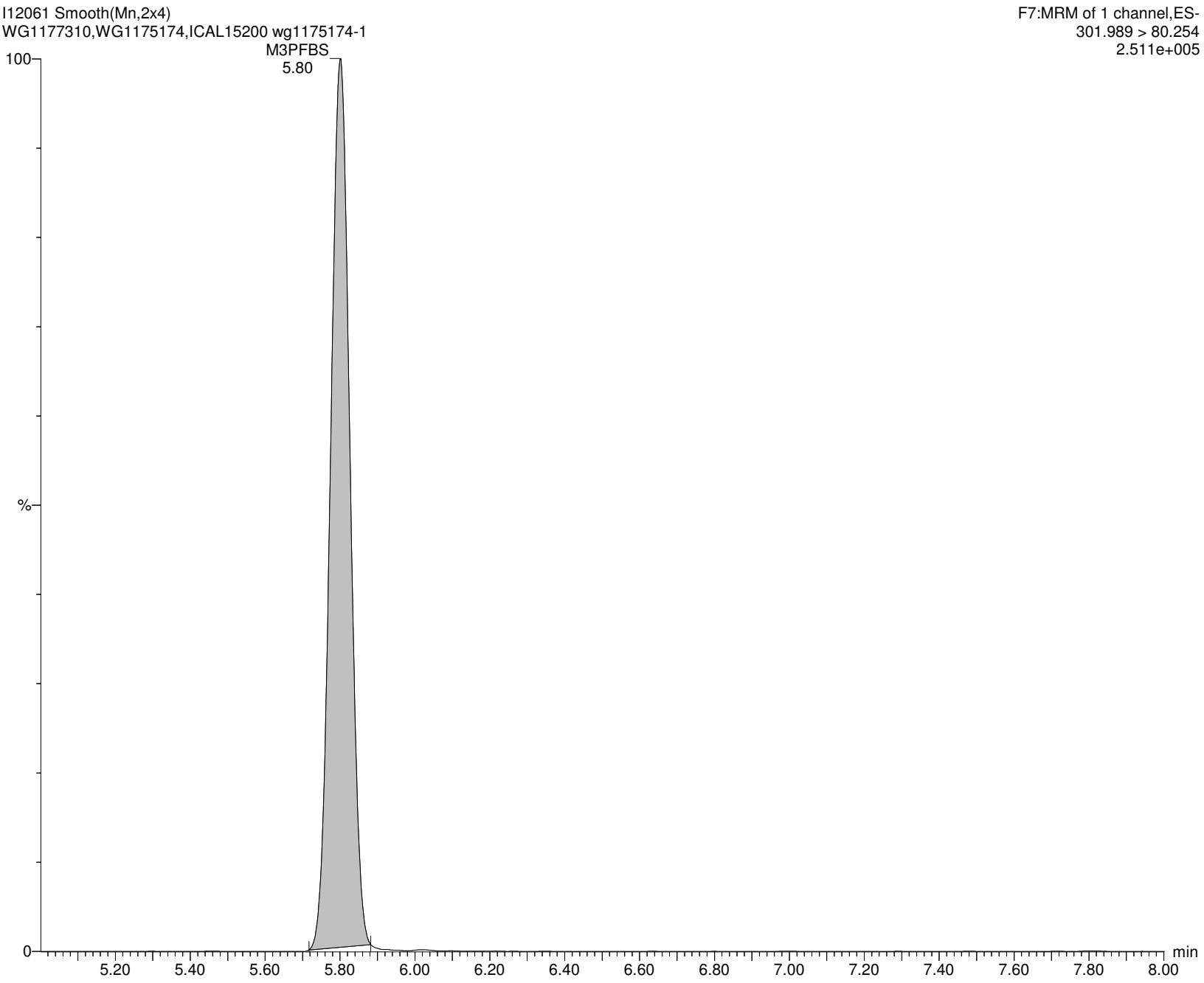

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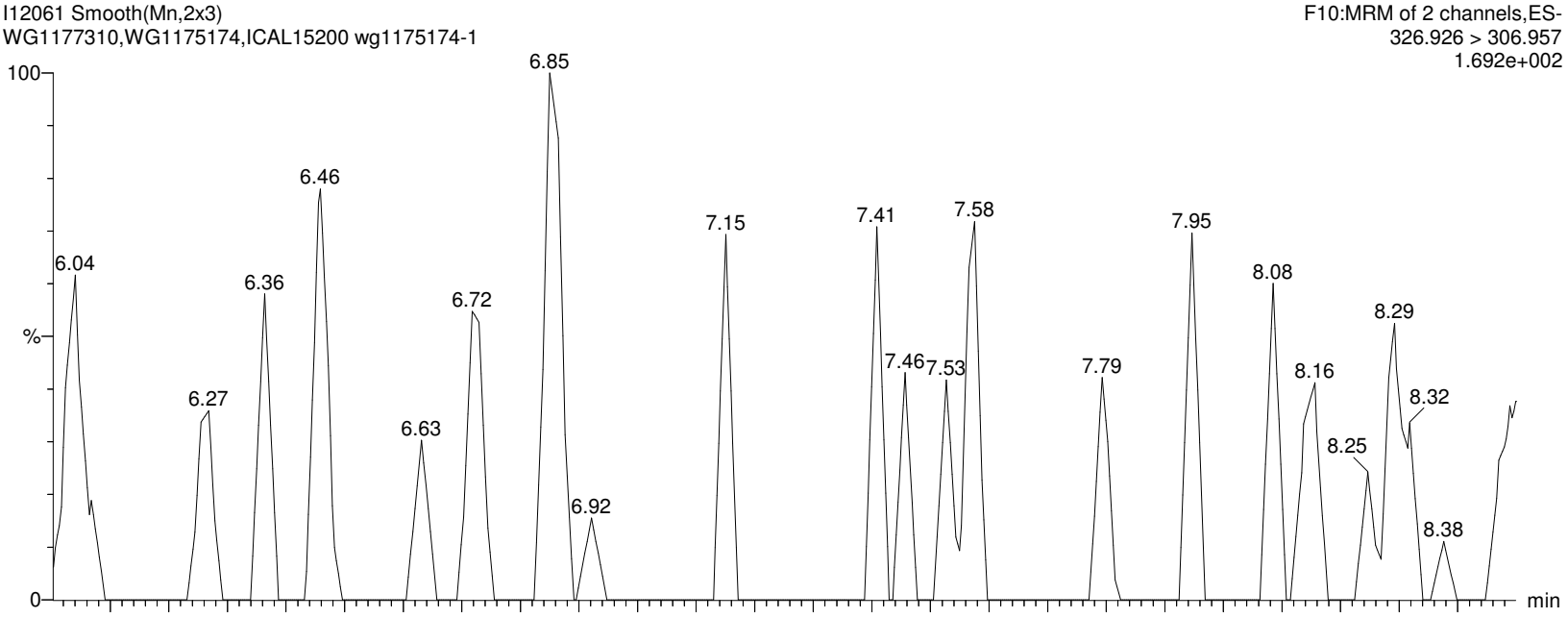
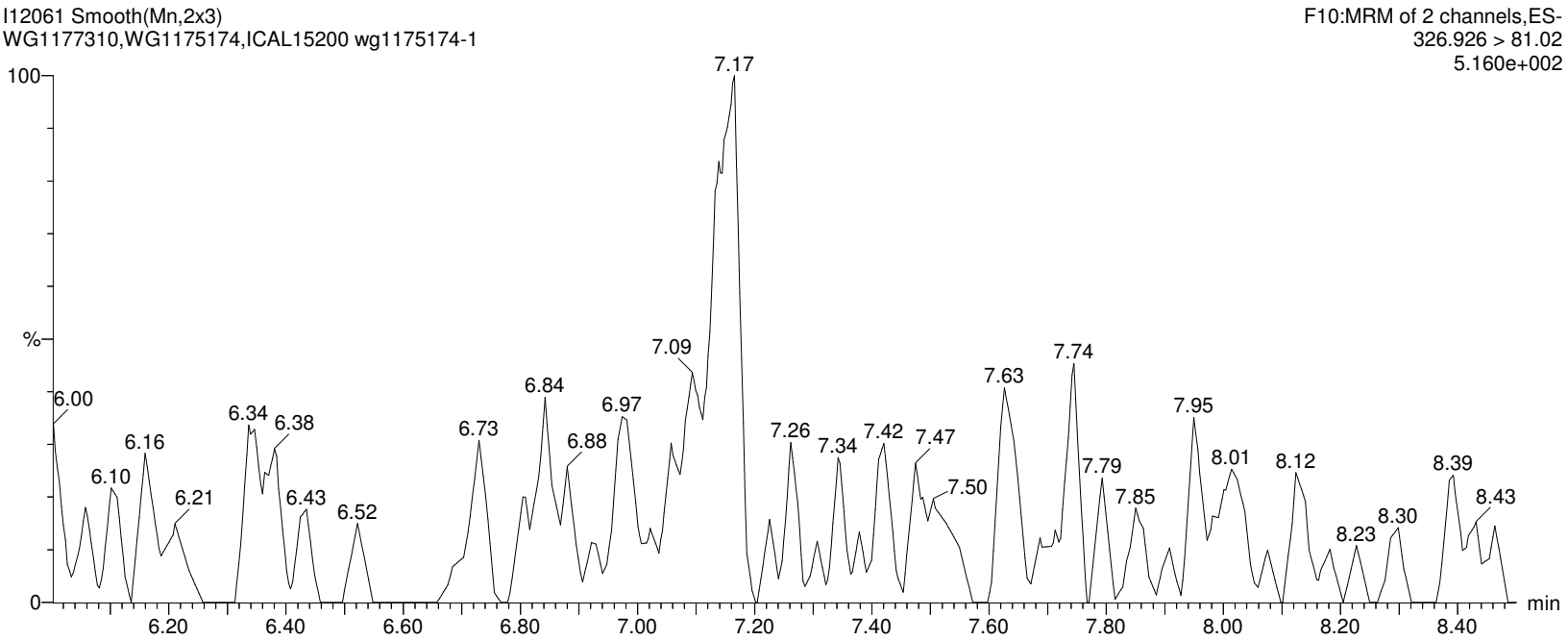
4:2FTS





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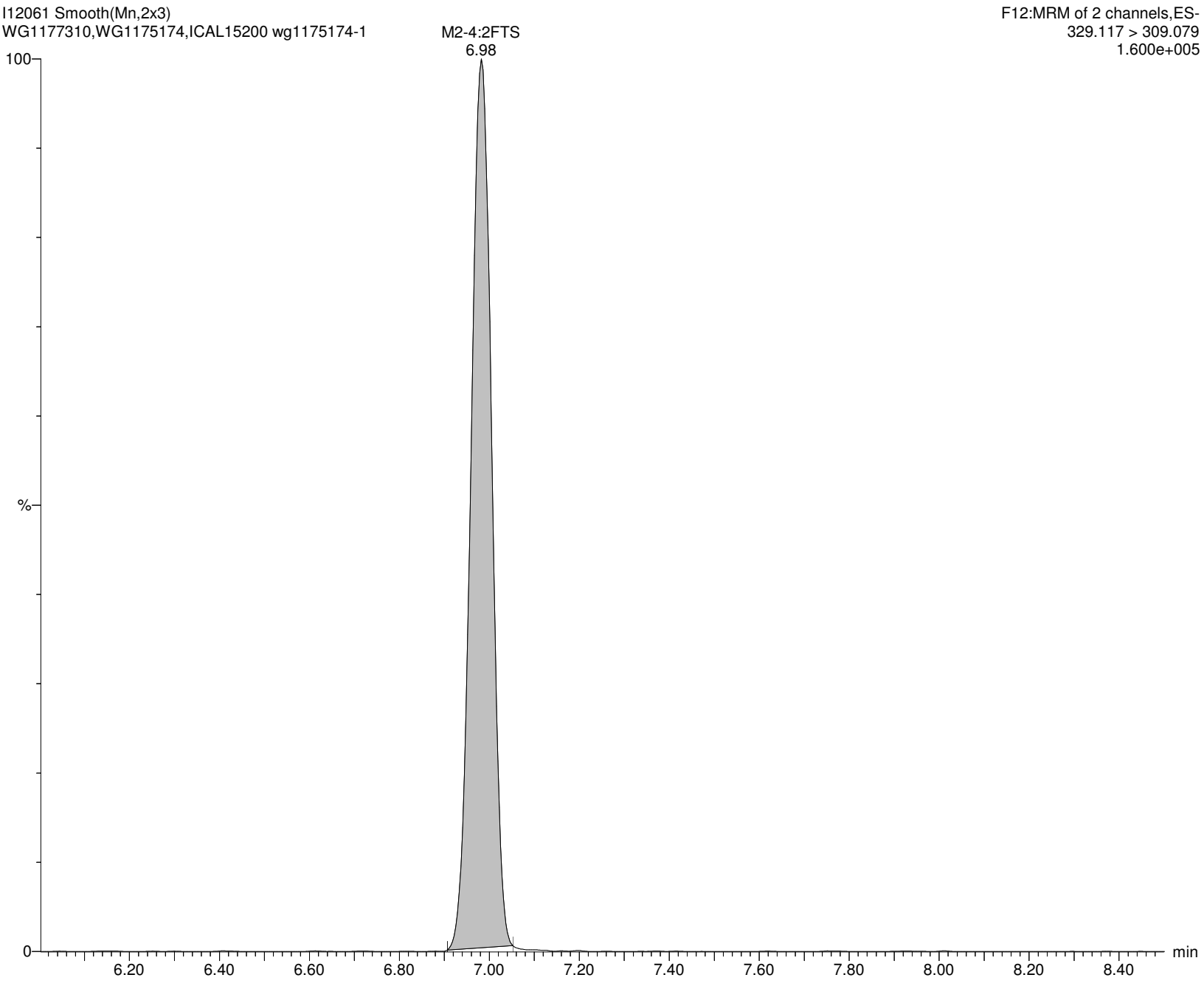
M2-4:2FTS



all concentration units in (ng/mL)

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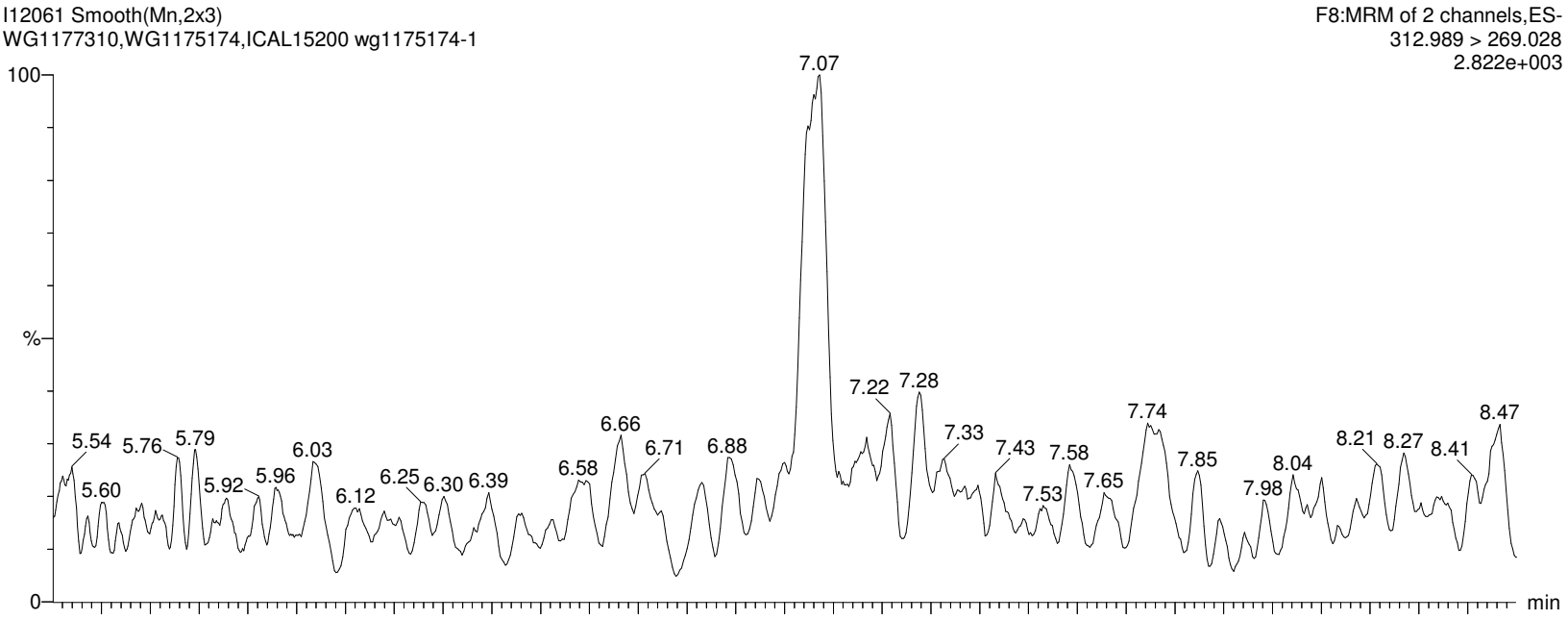
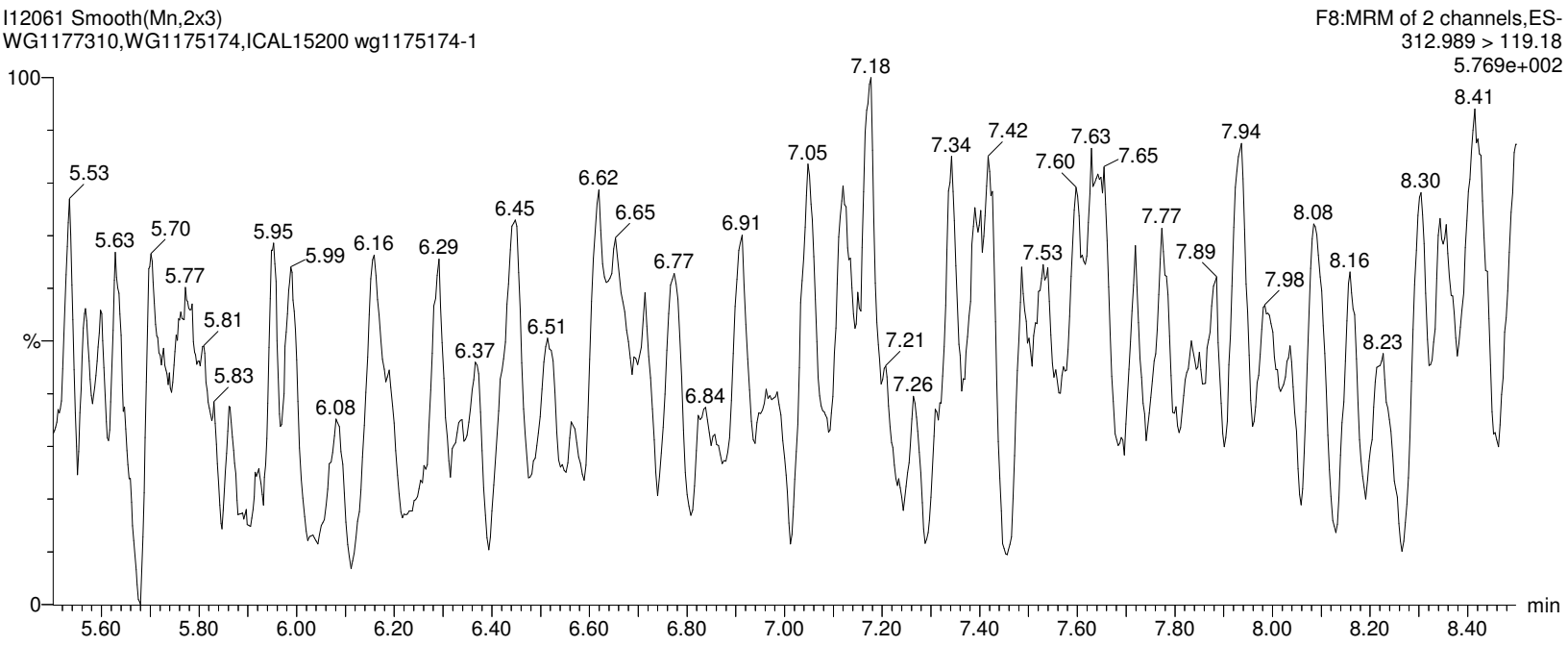
PFHxA





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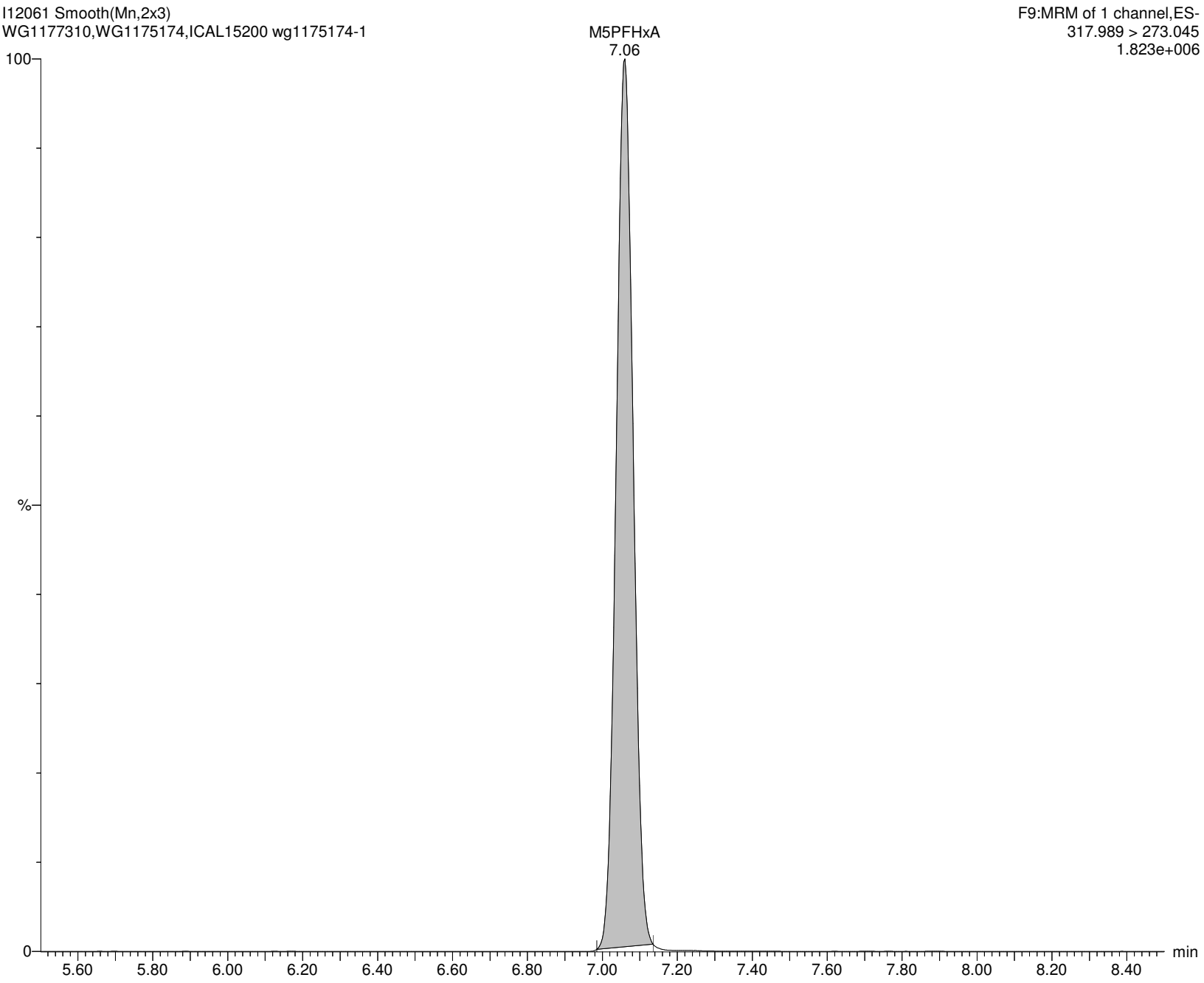

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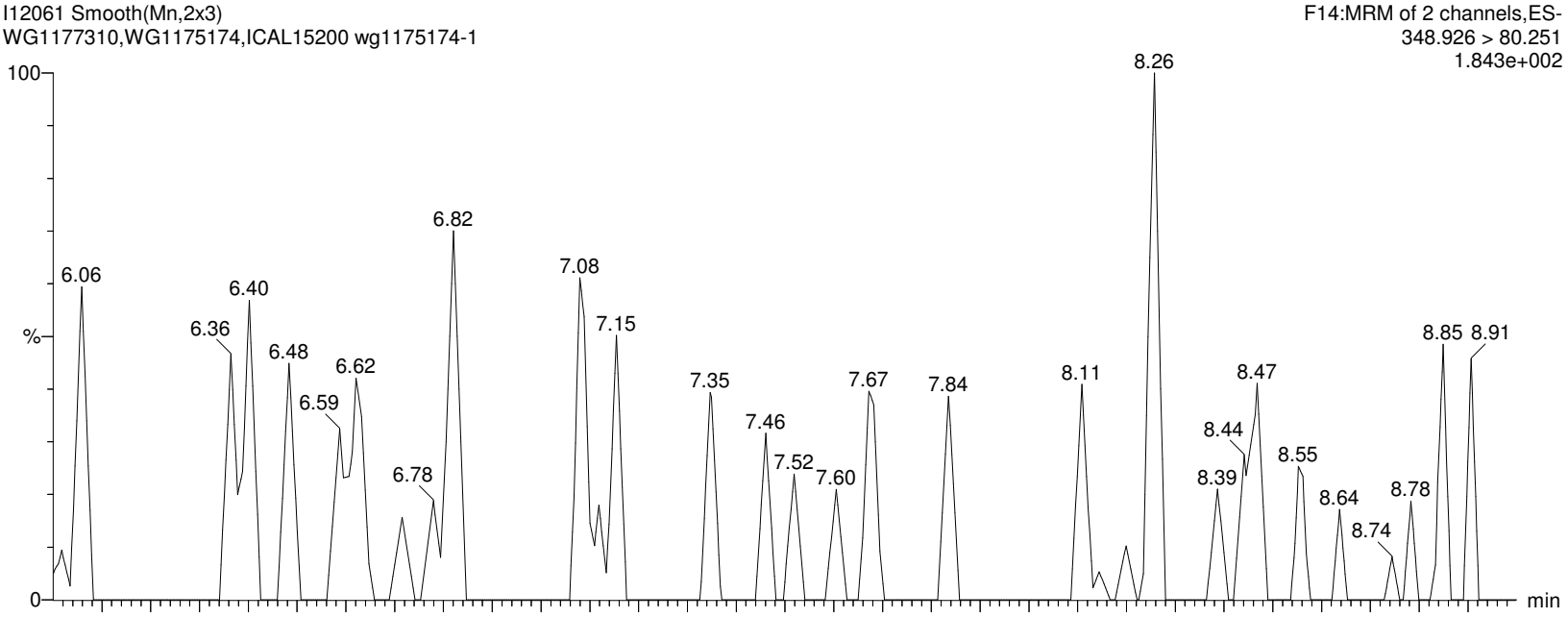

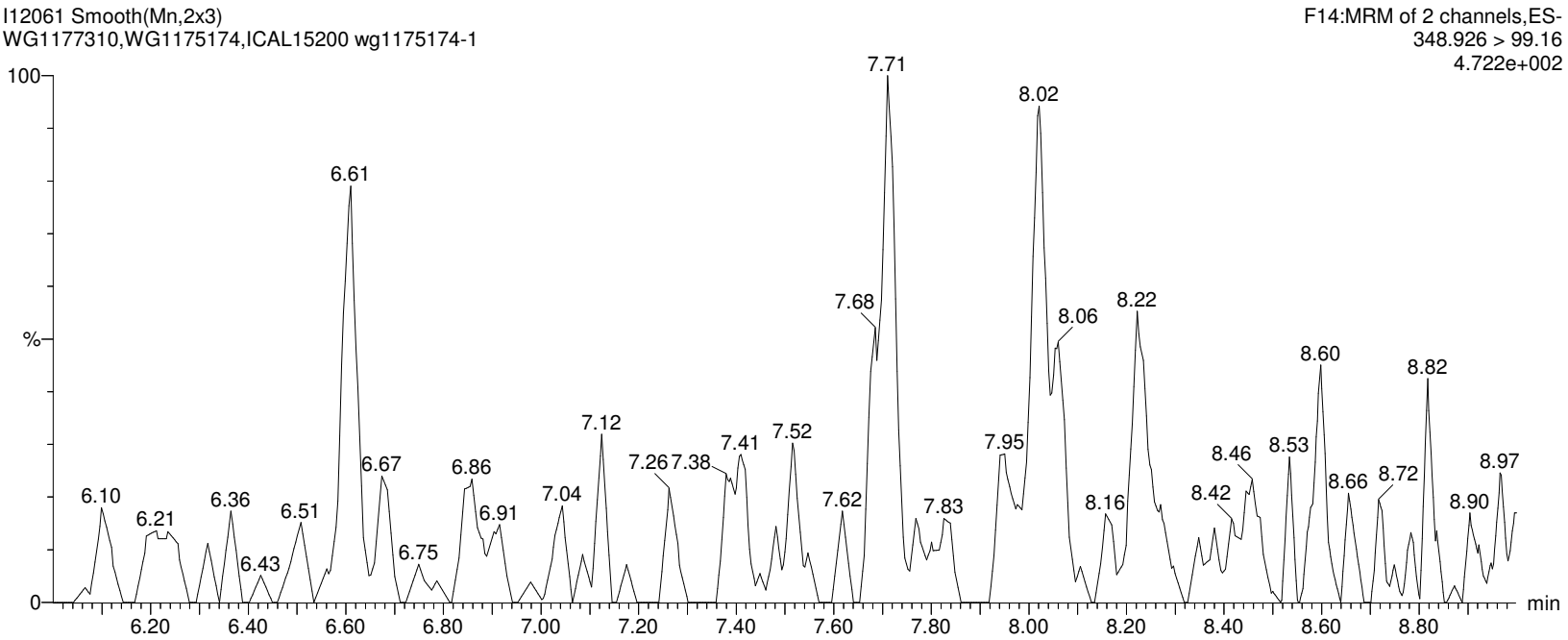

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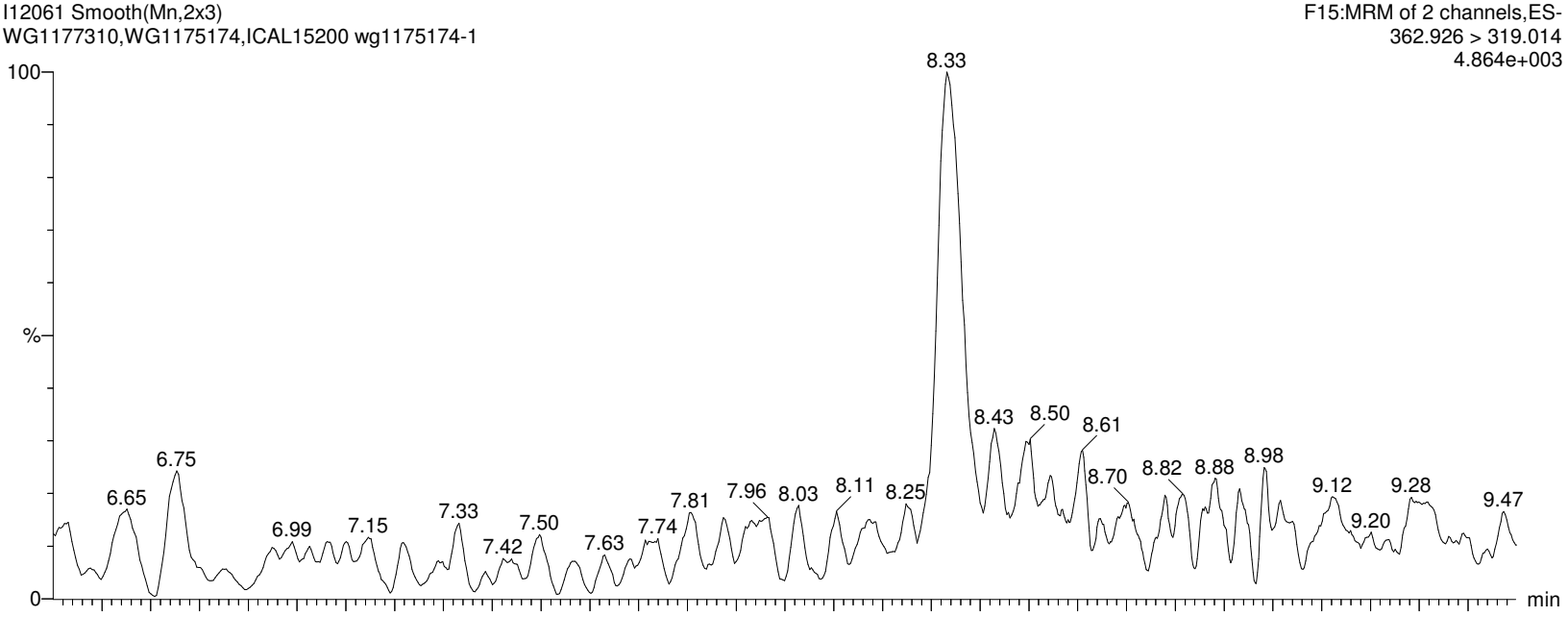

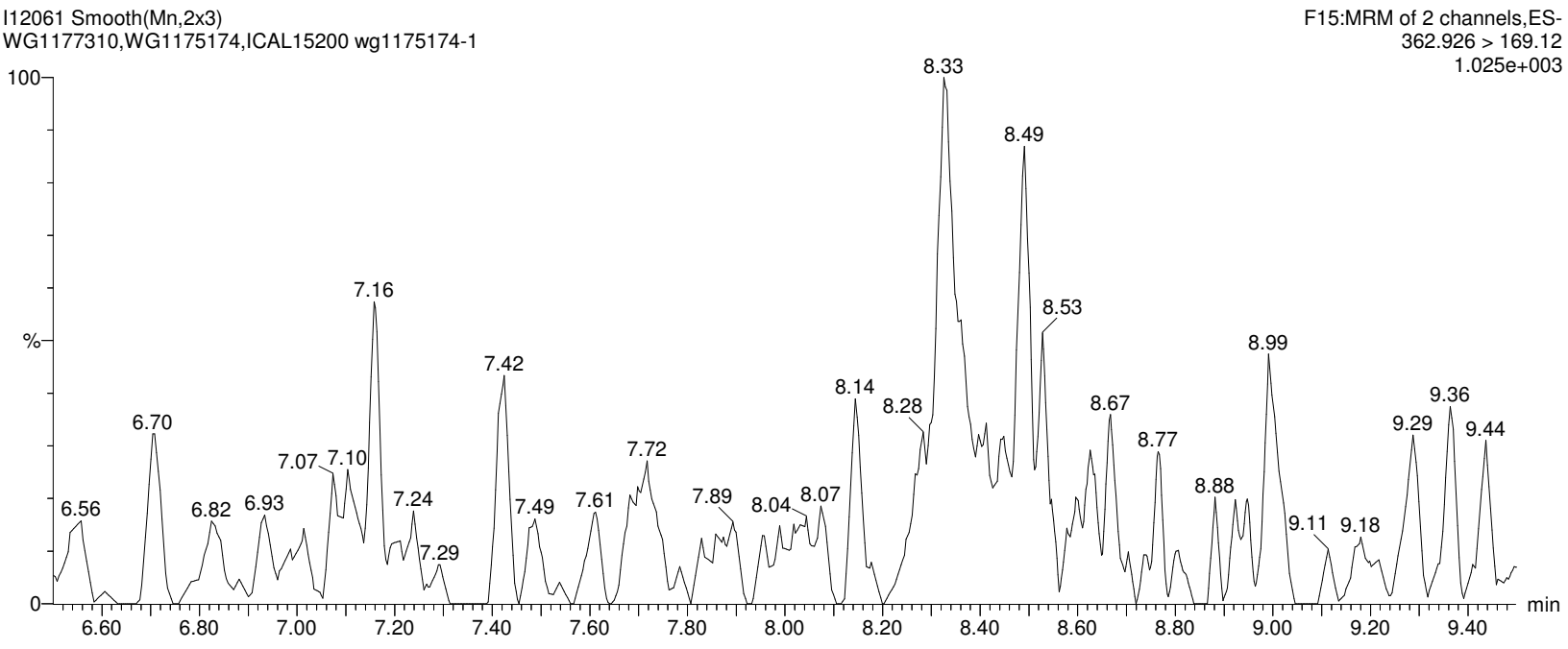

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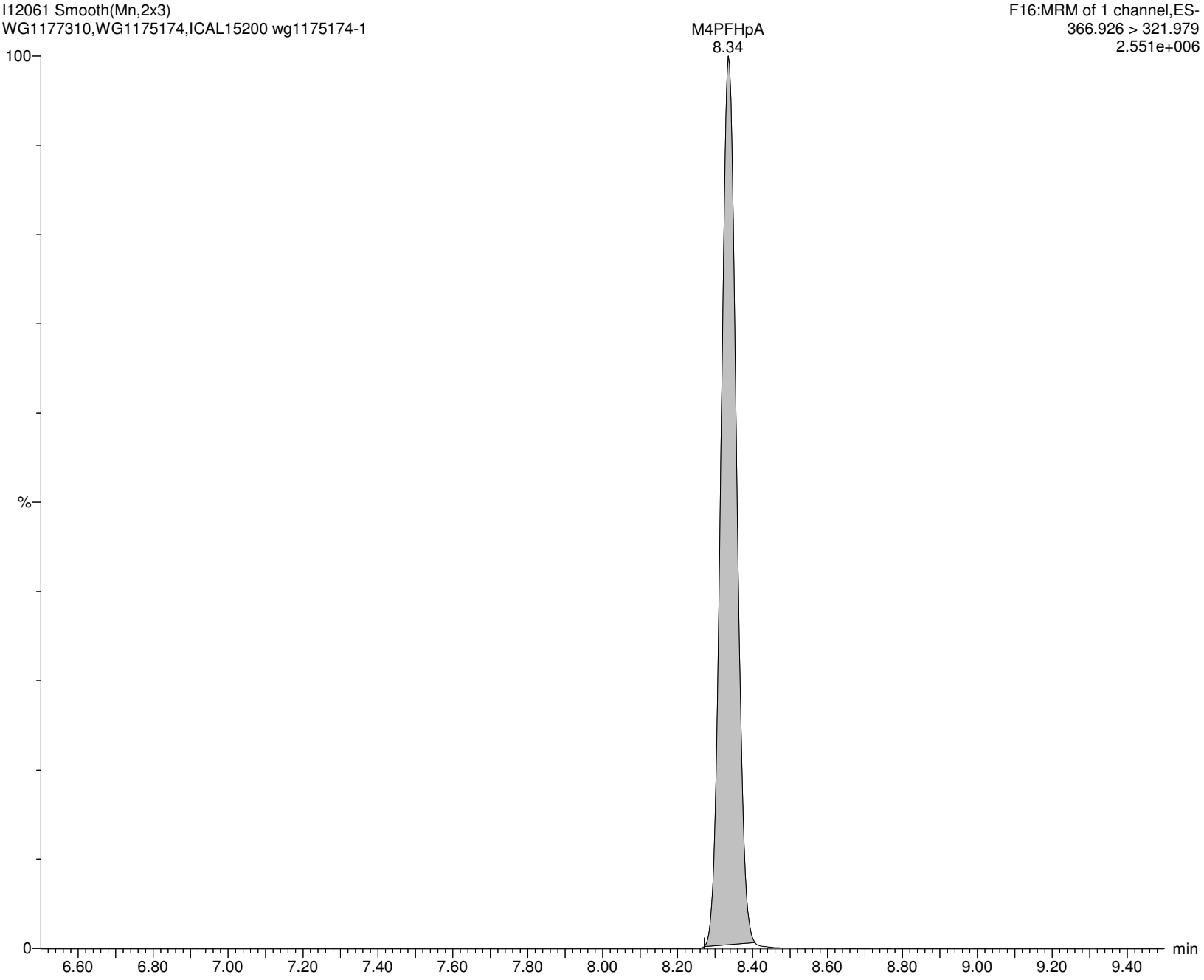

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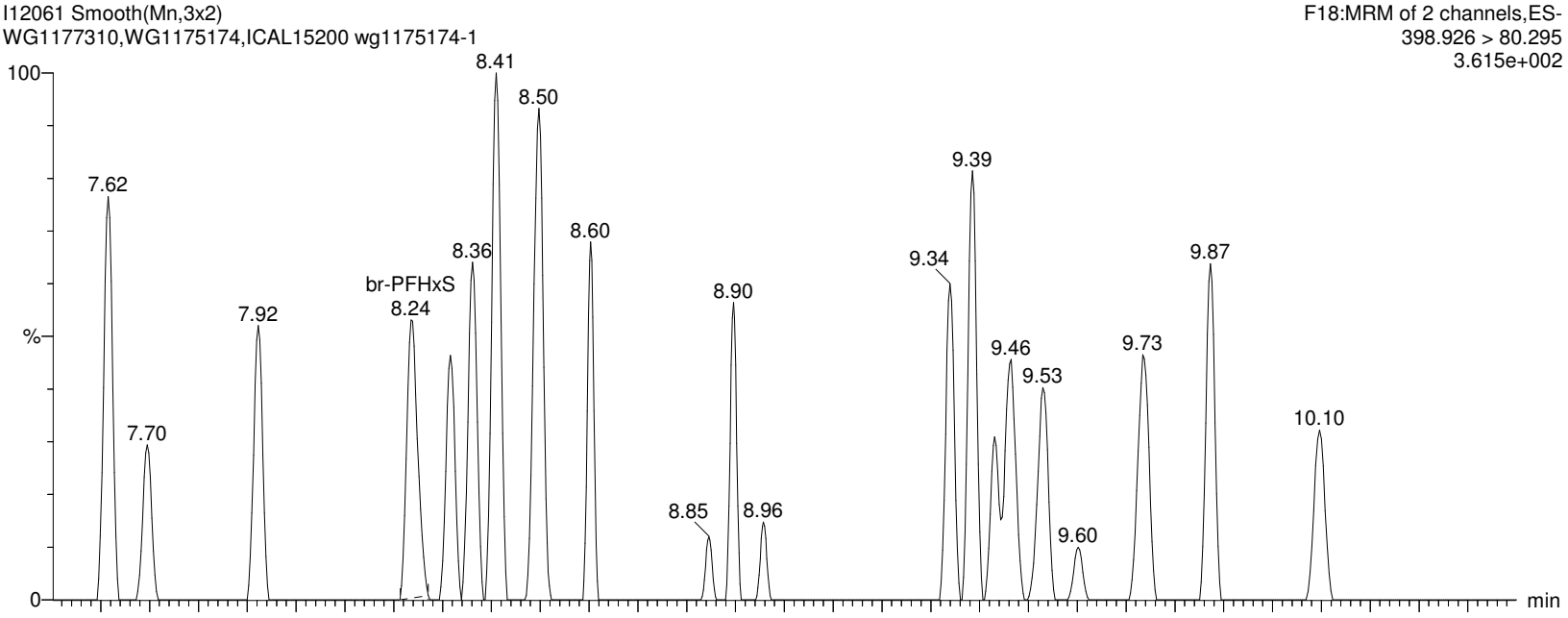

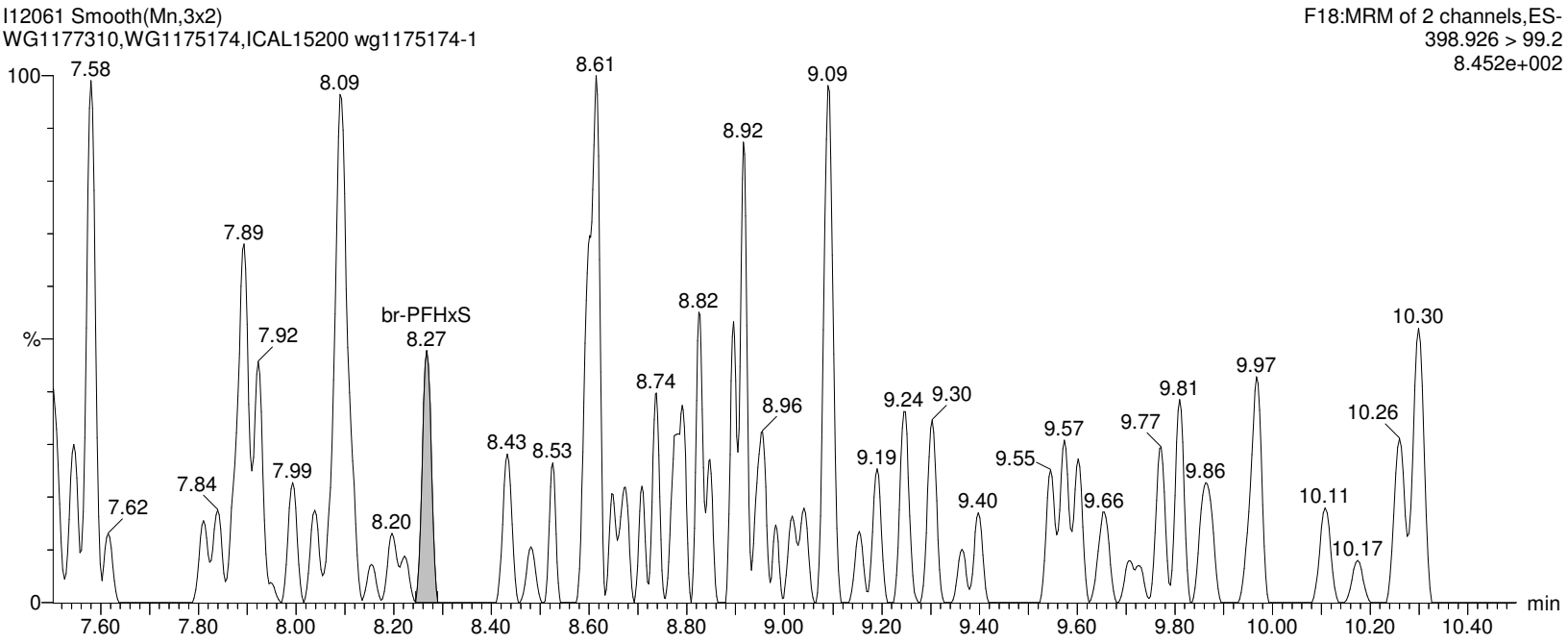

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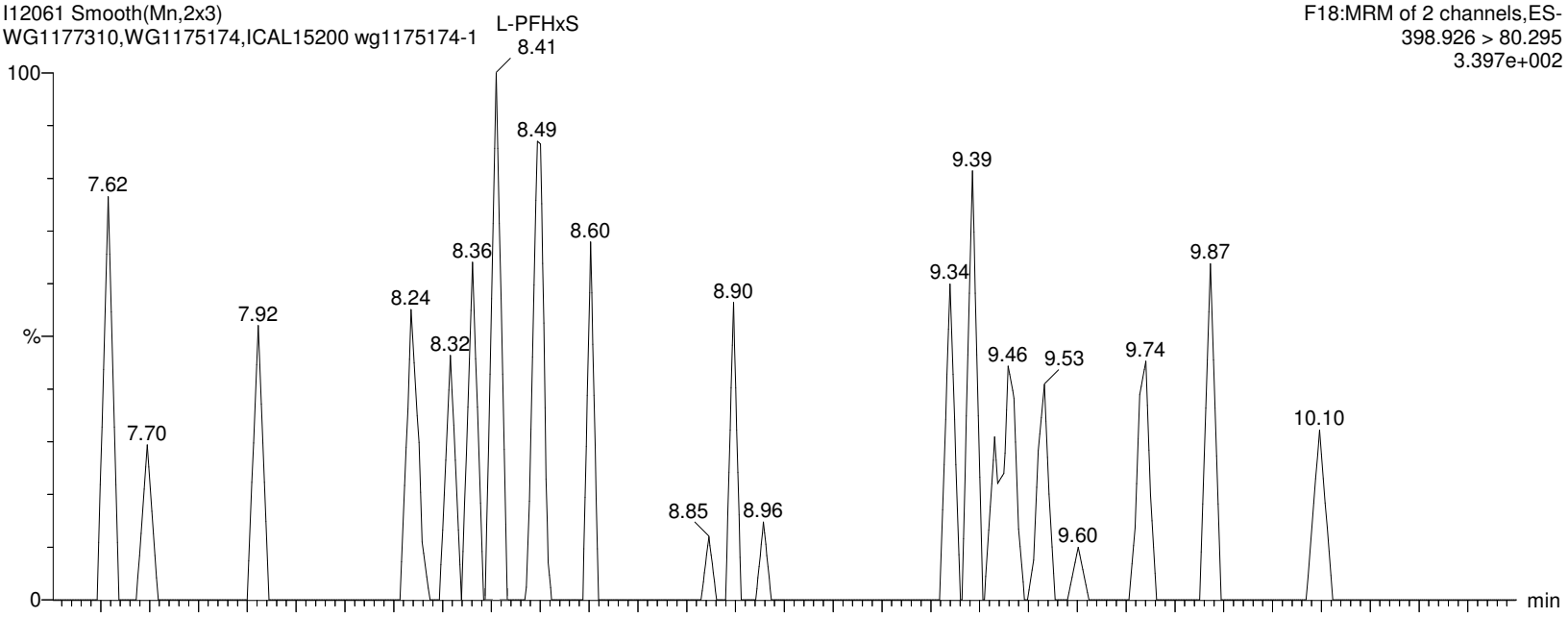
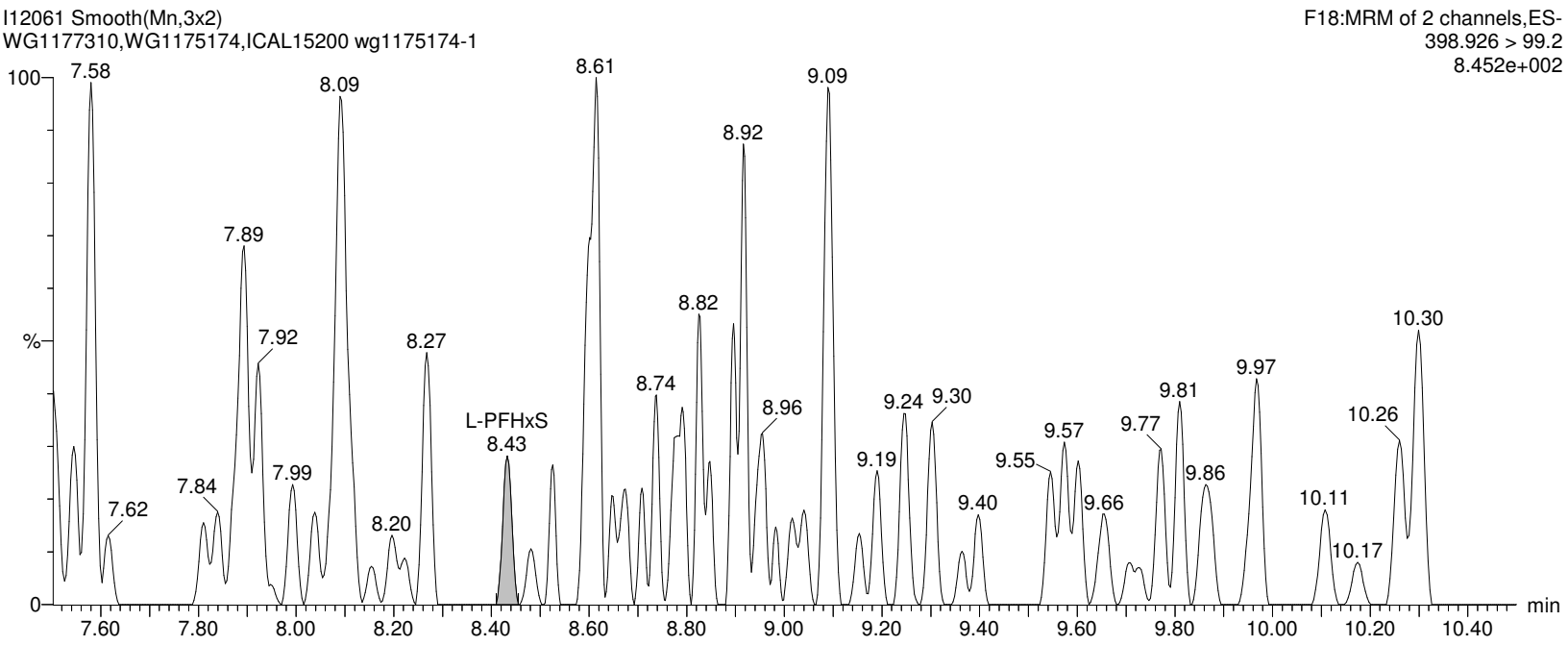
L-PFHxS





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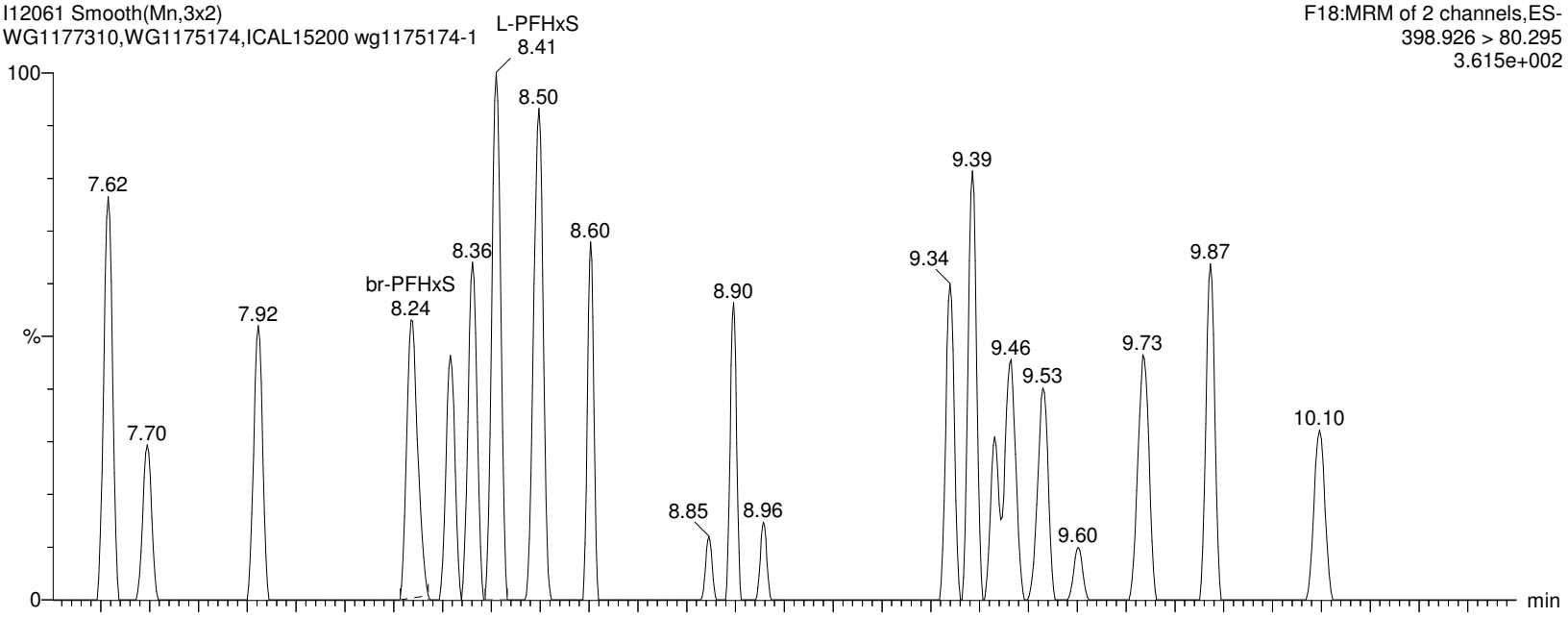

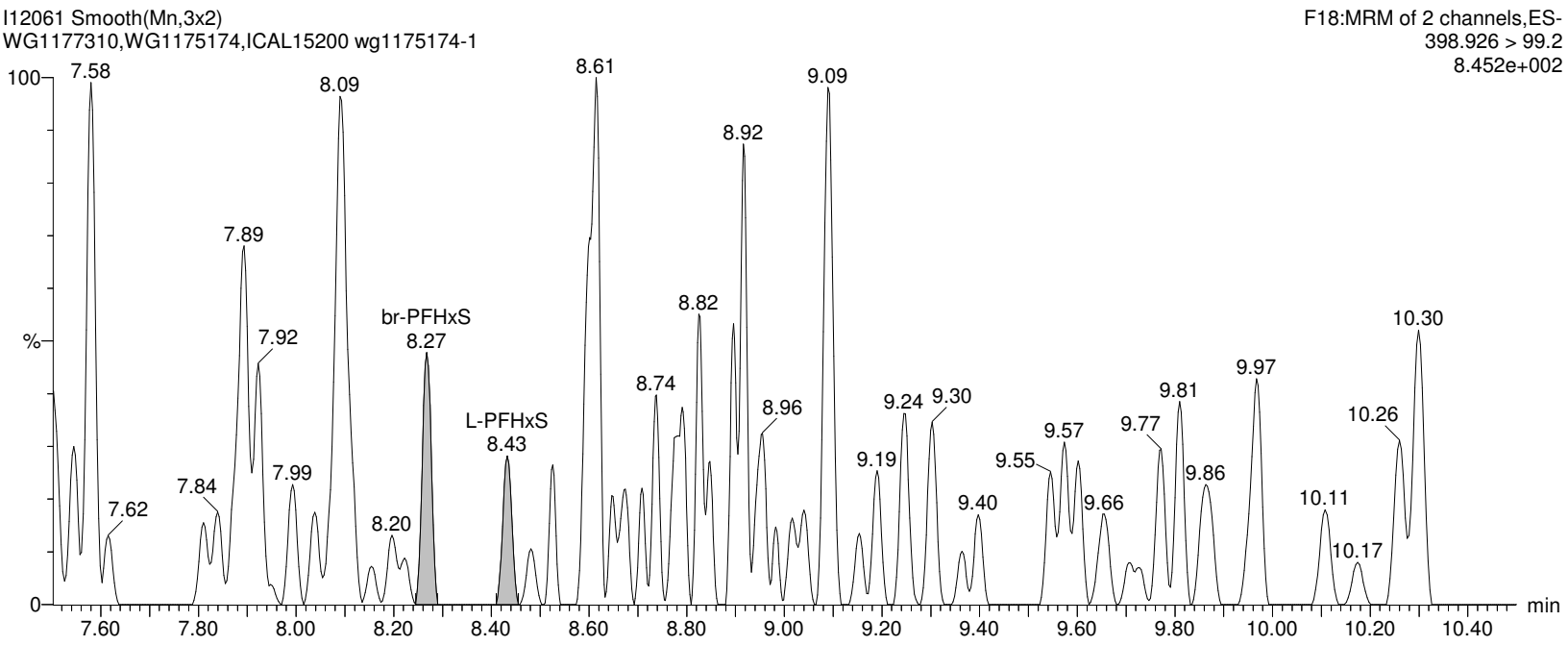

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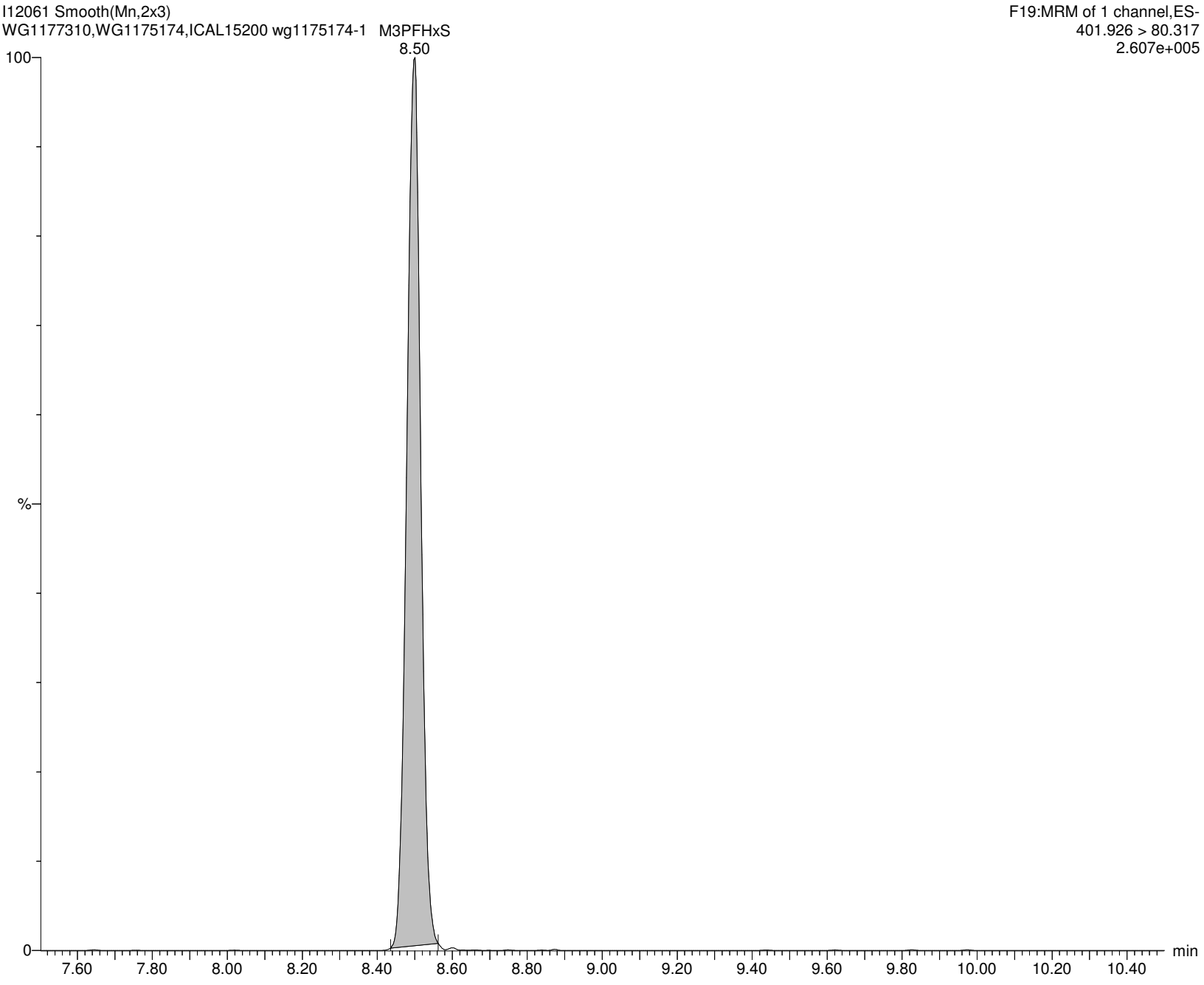

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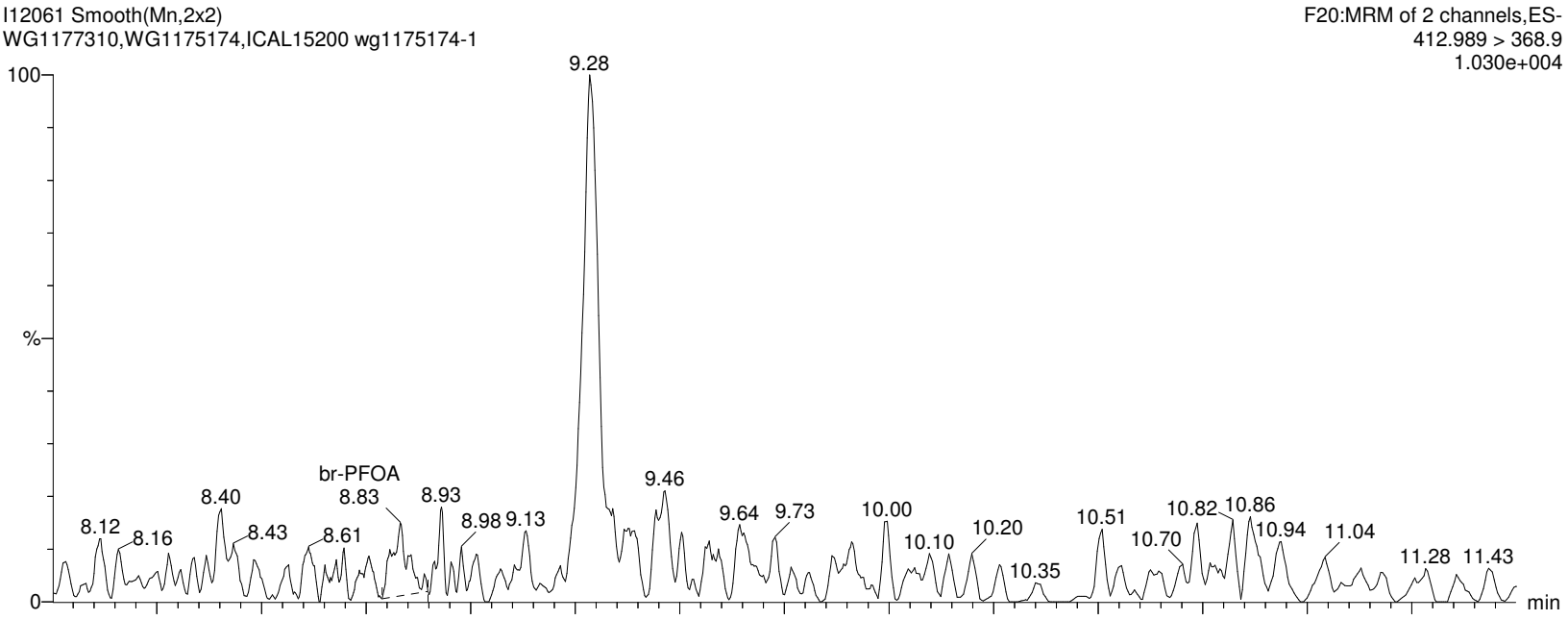

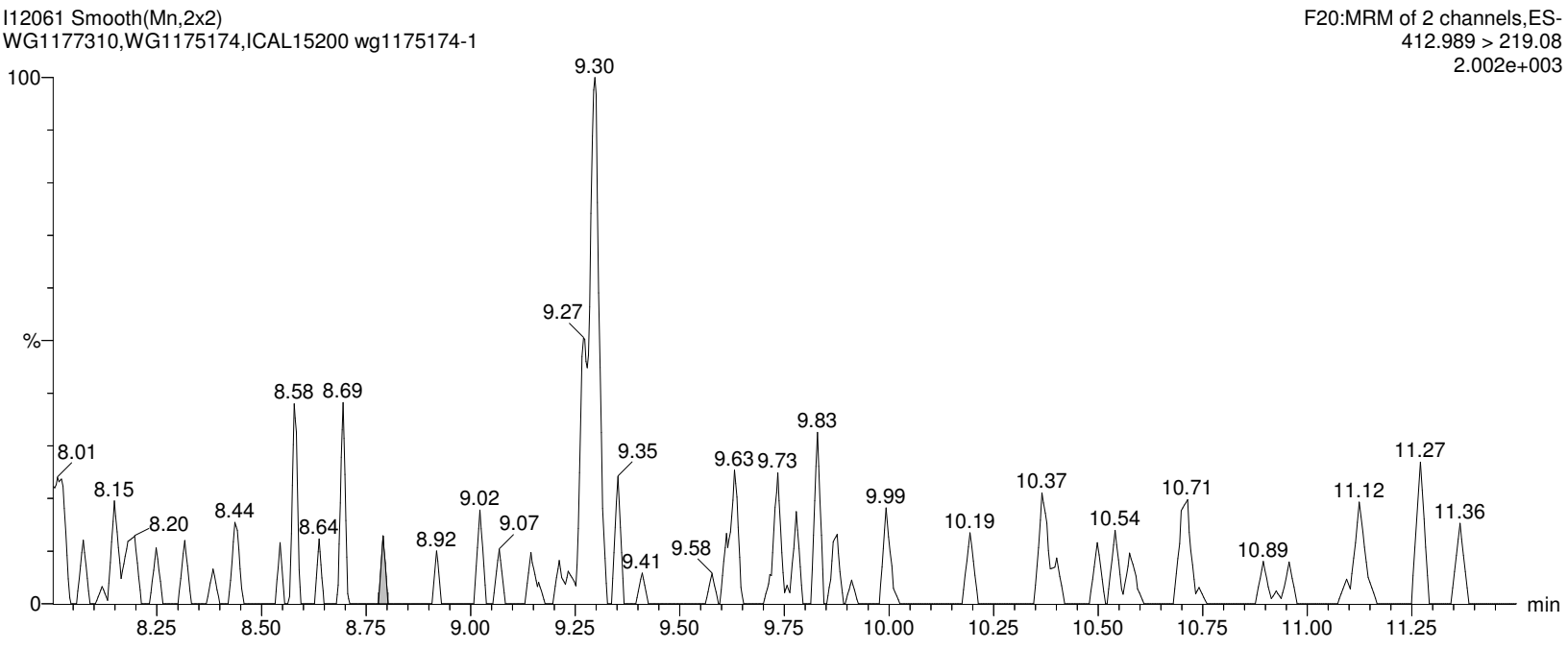

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Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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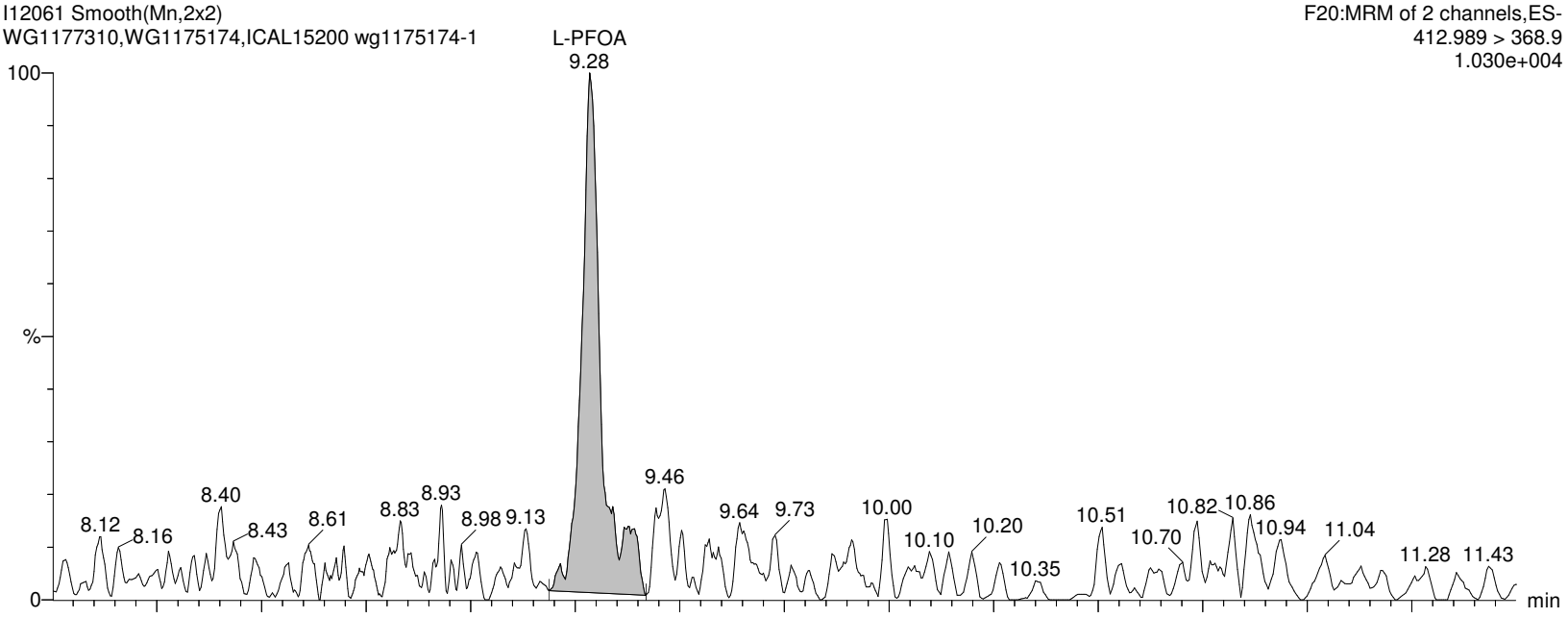

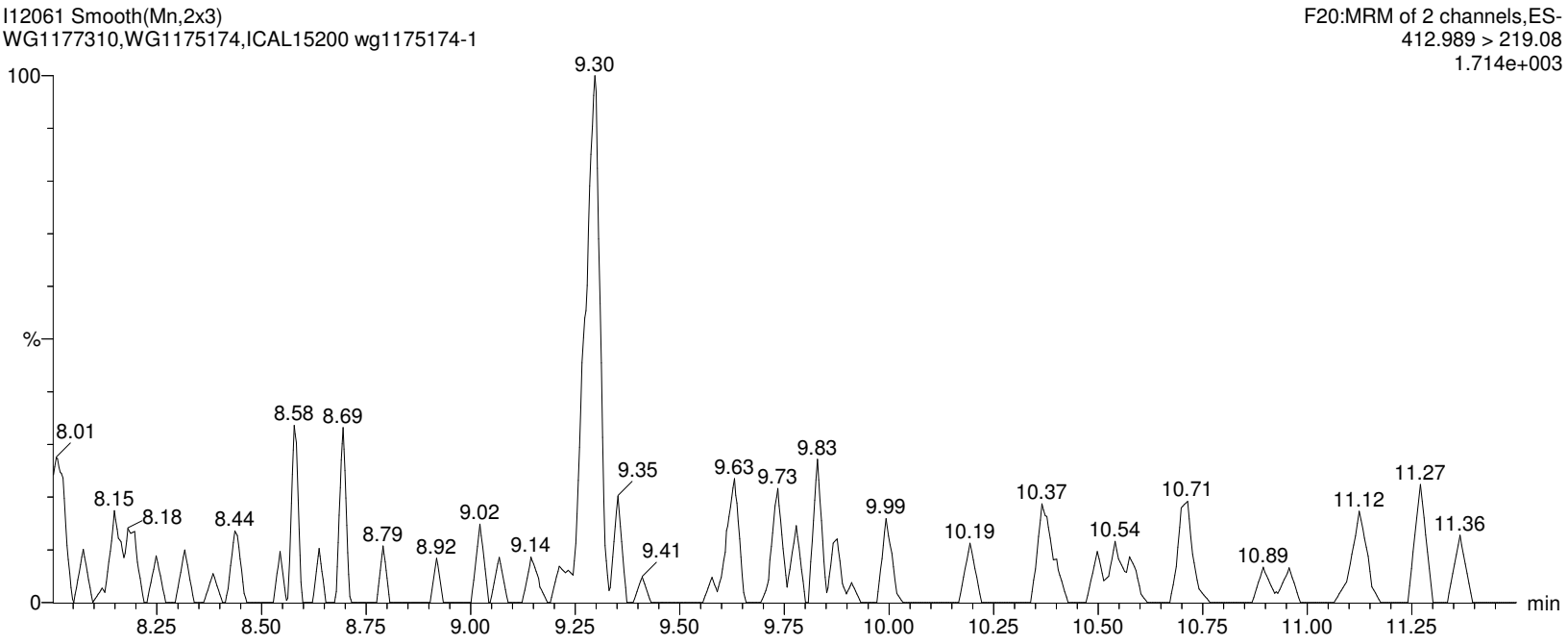

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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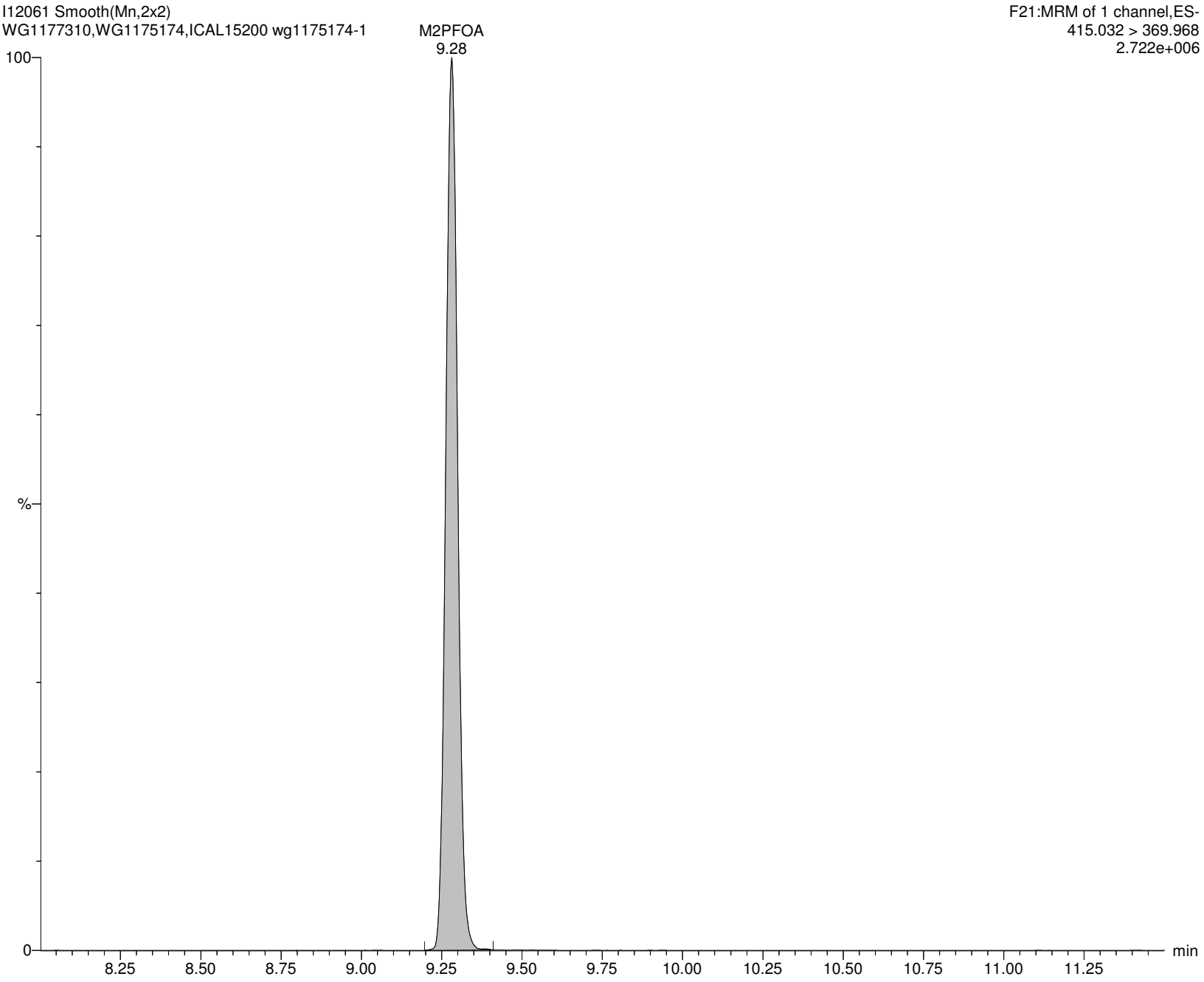

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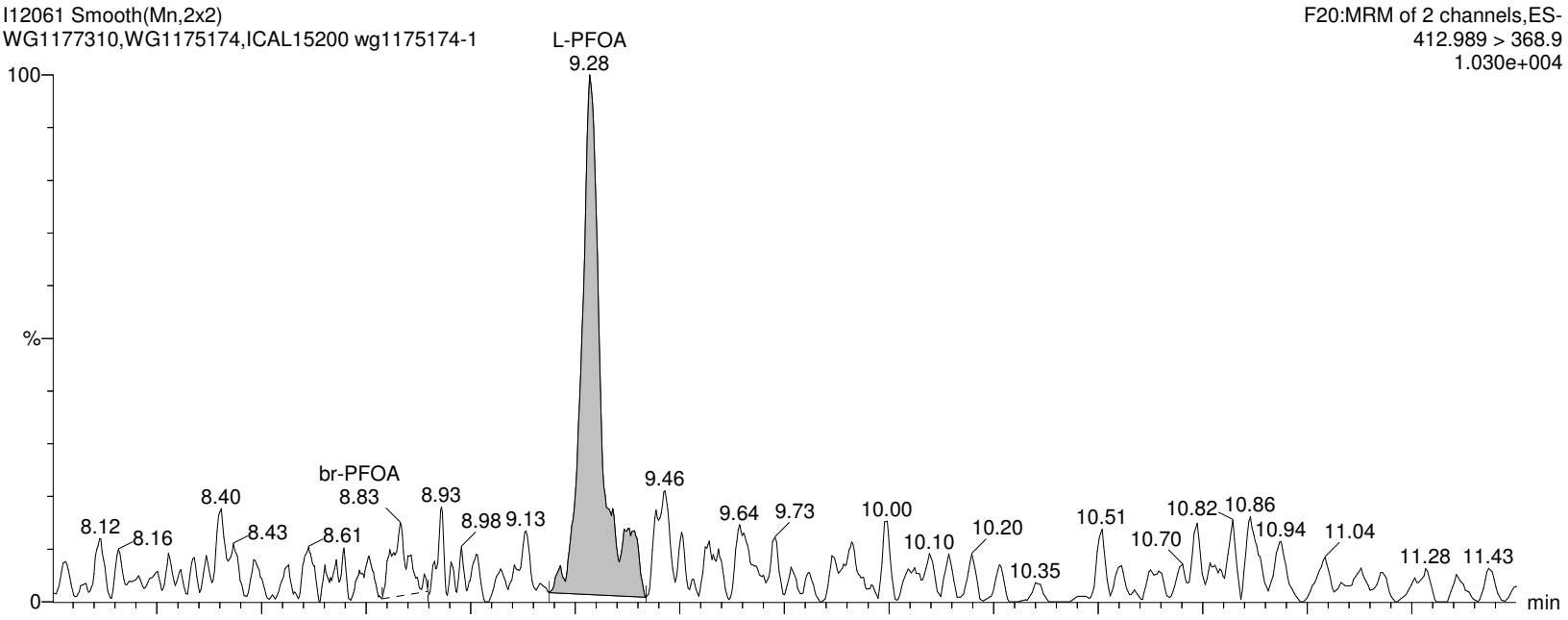

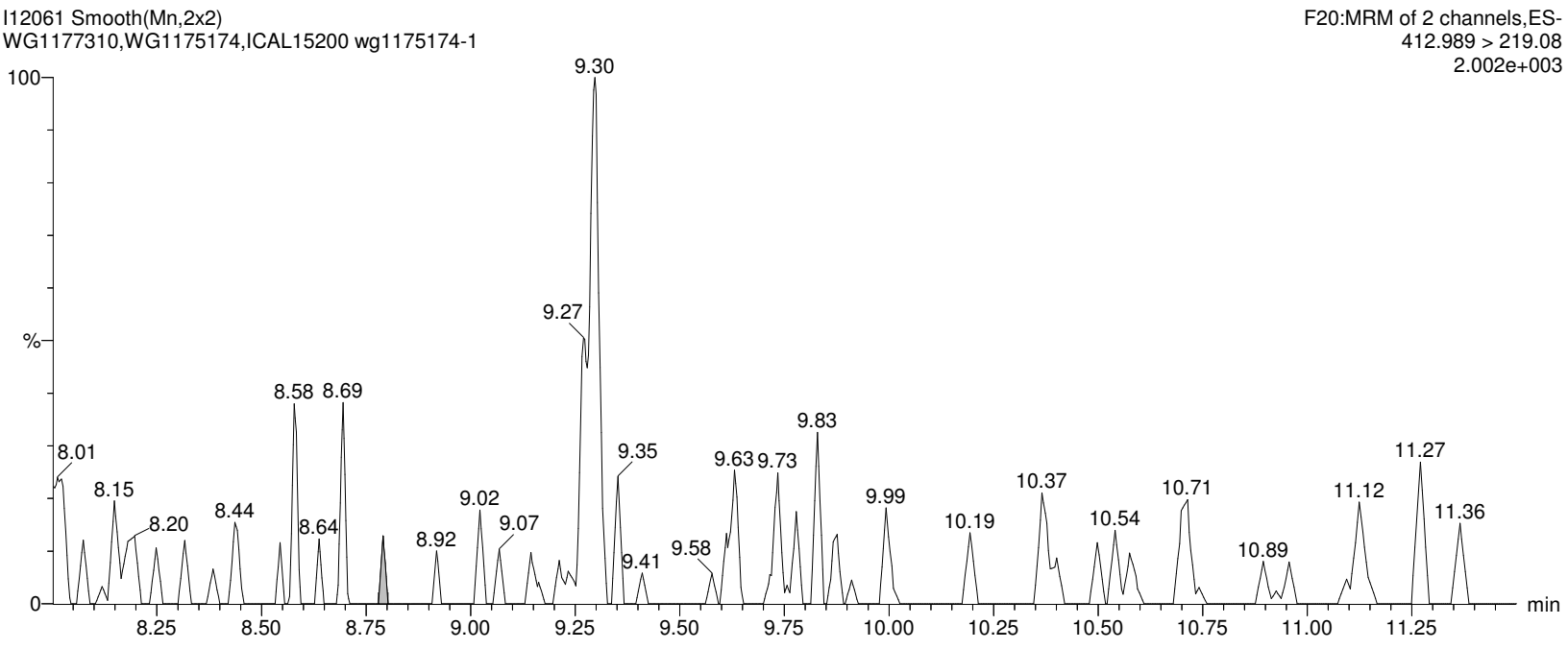

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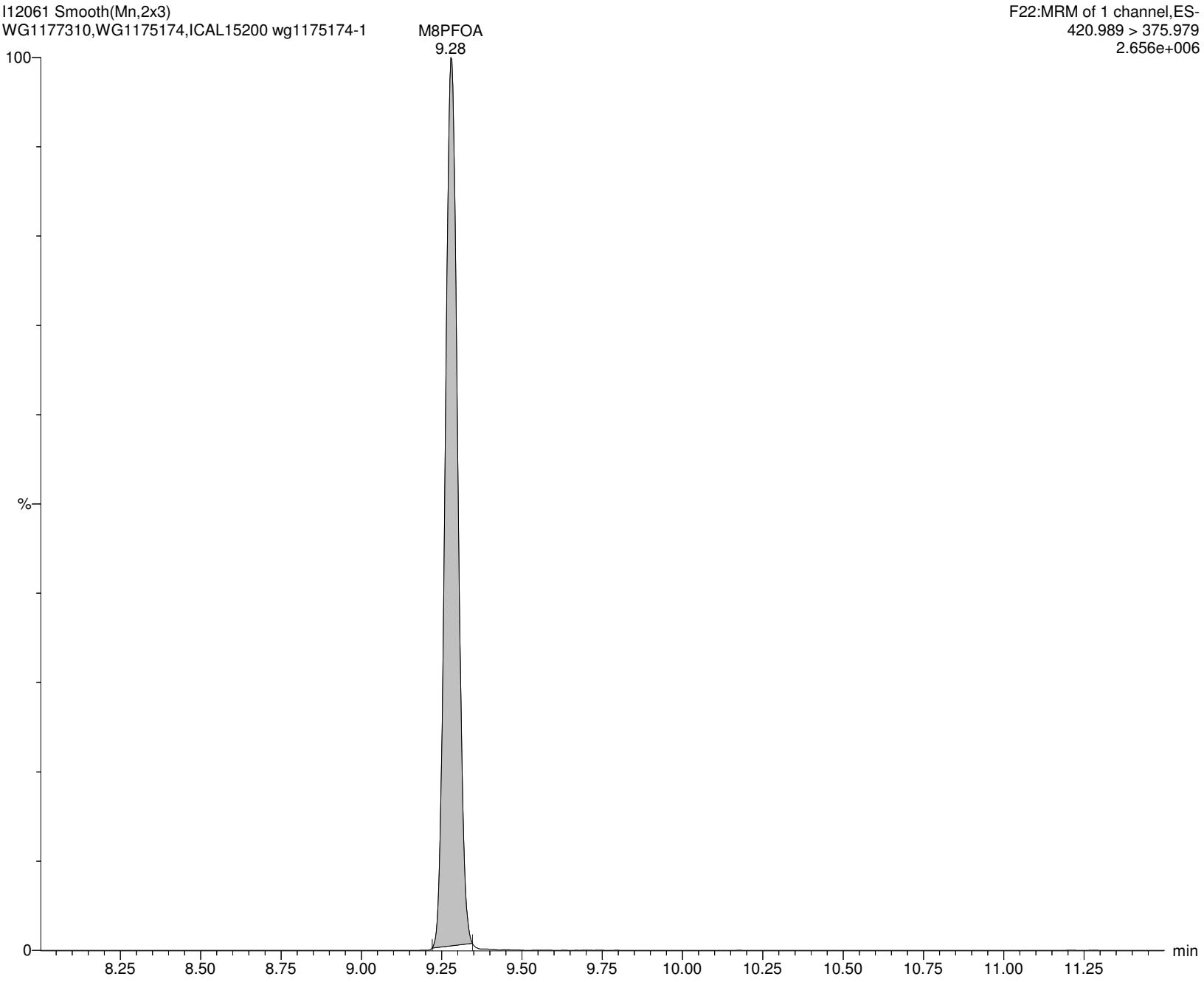

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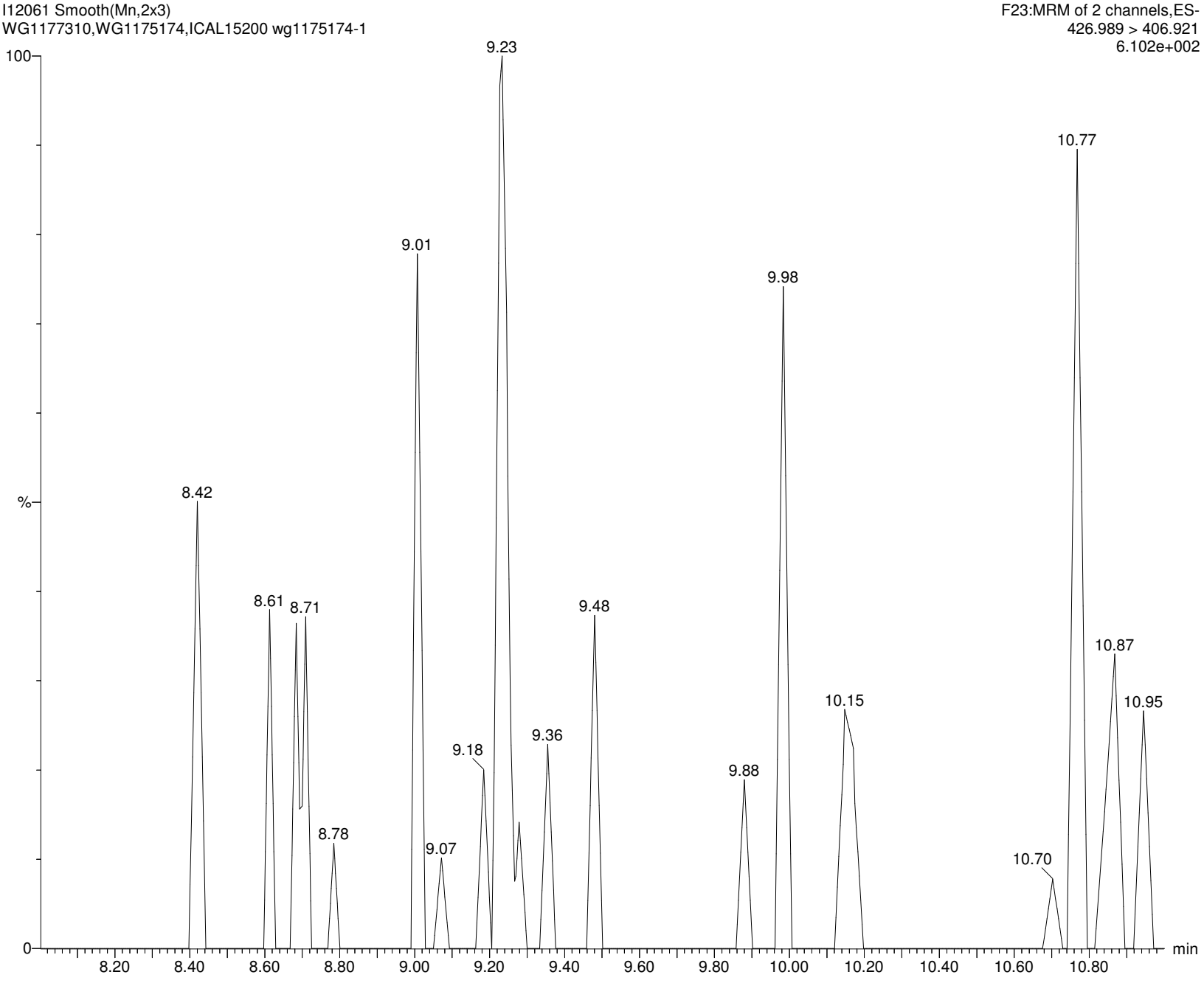

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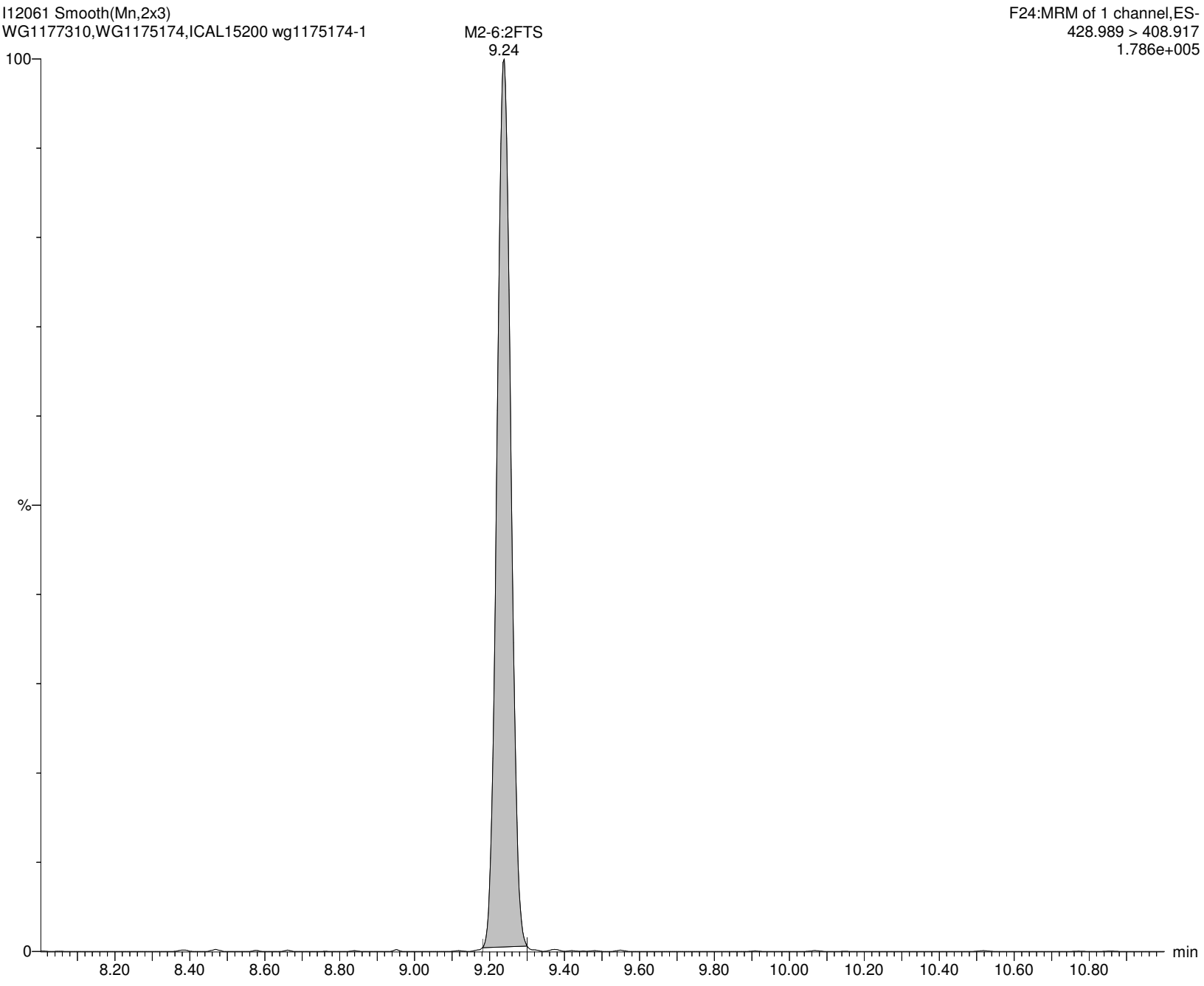

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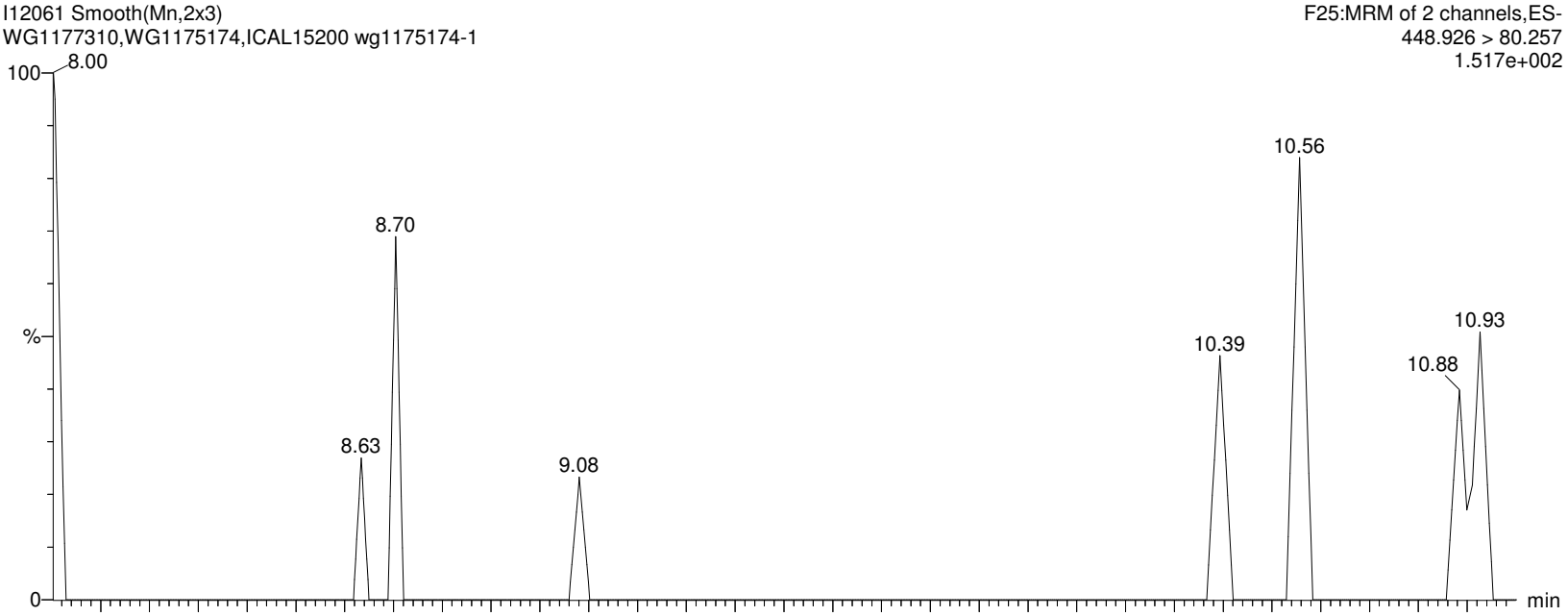

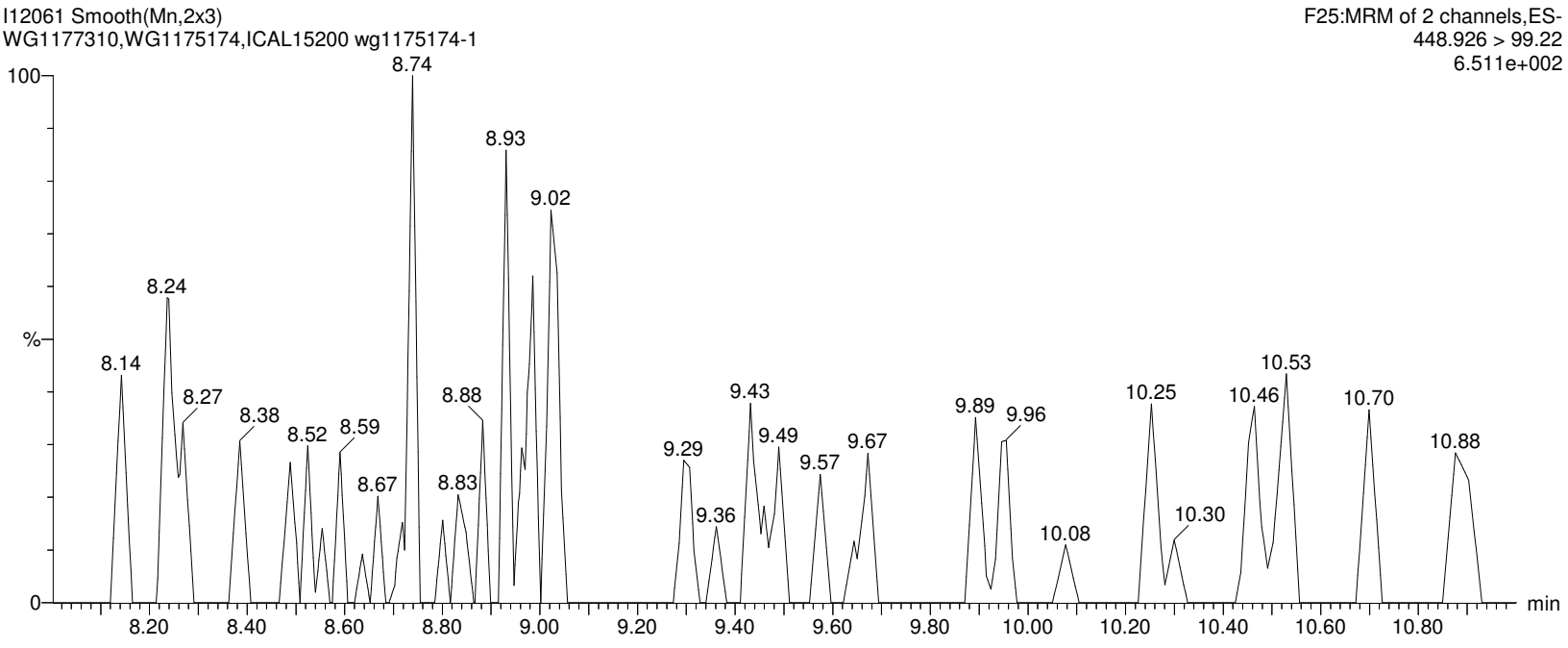

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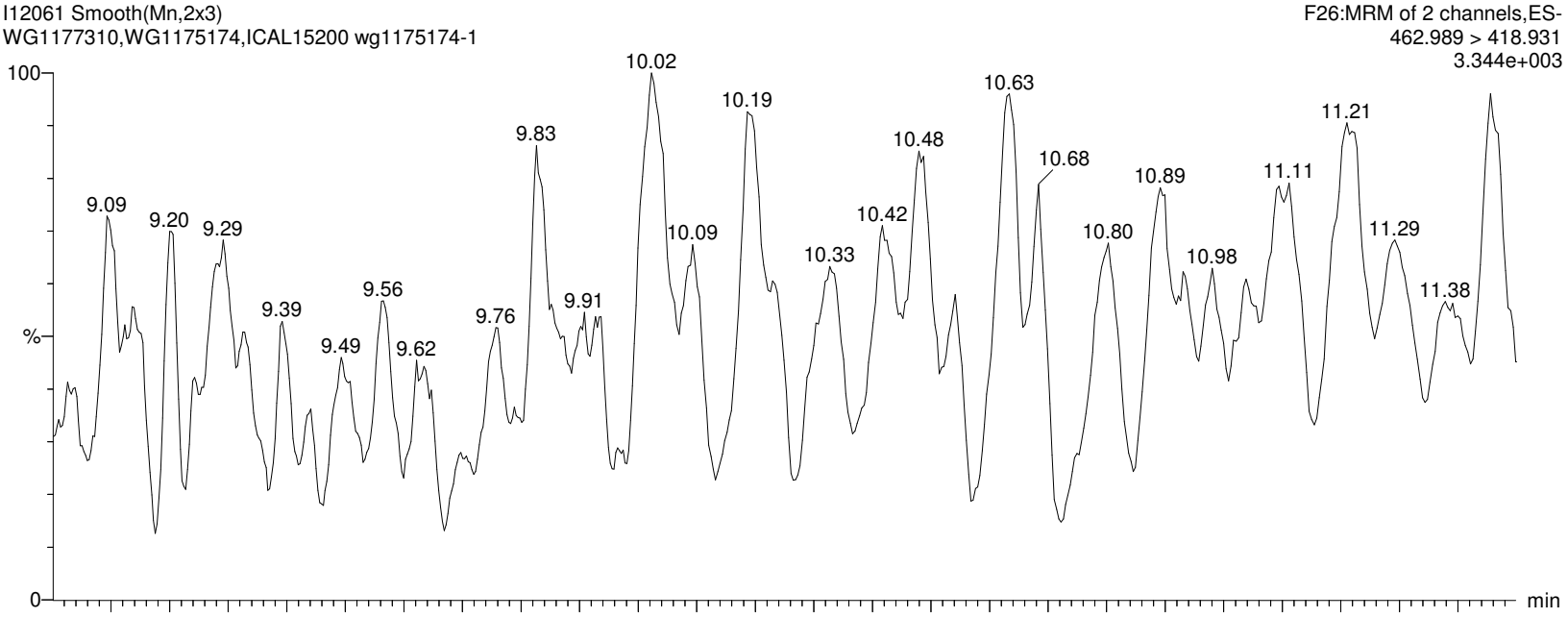

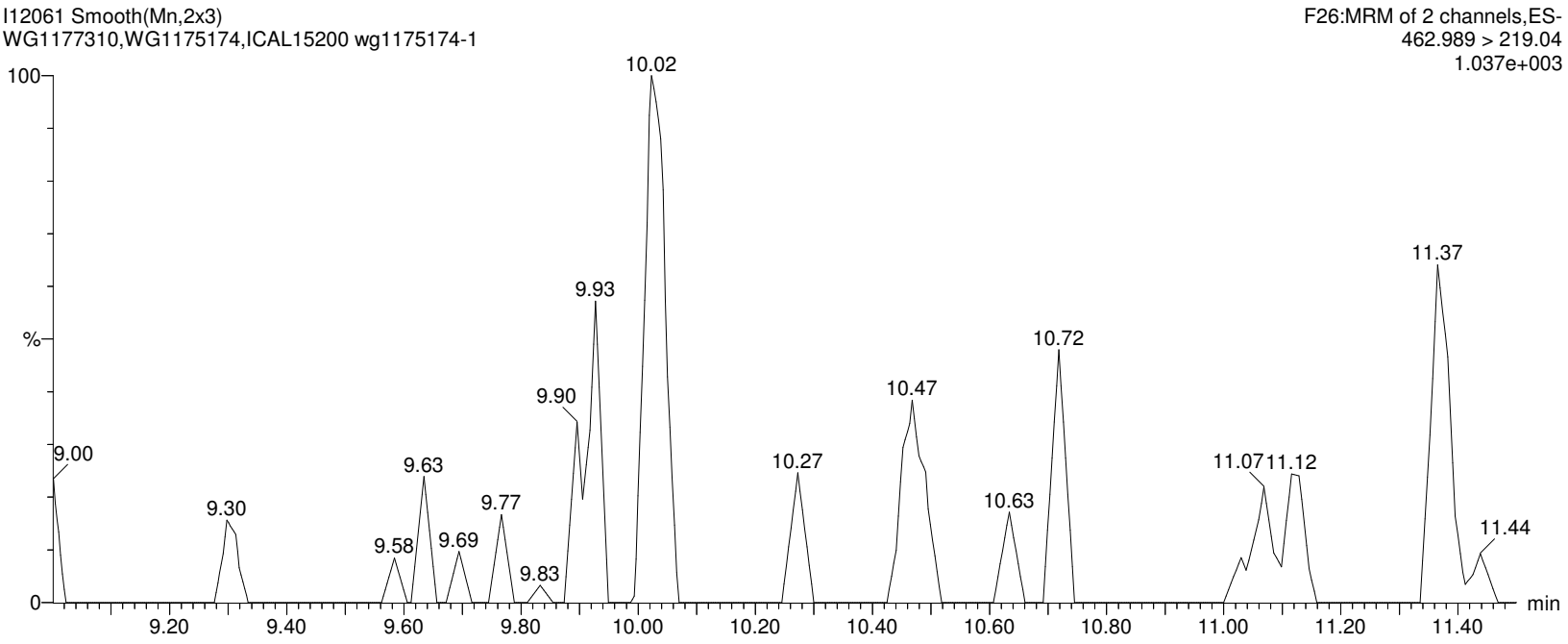

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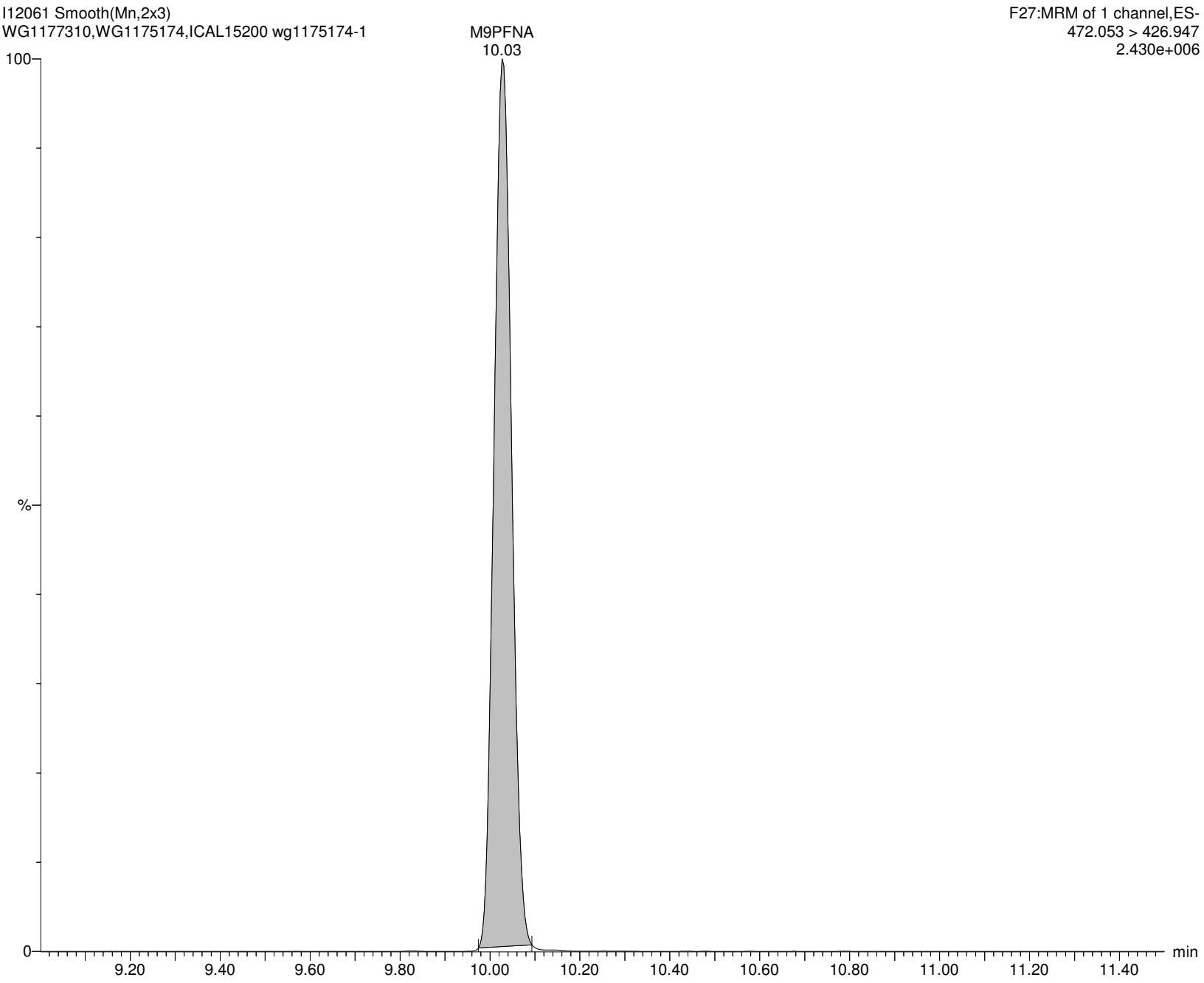

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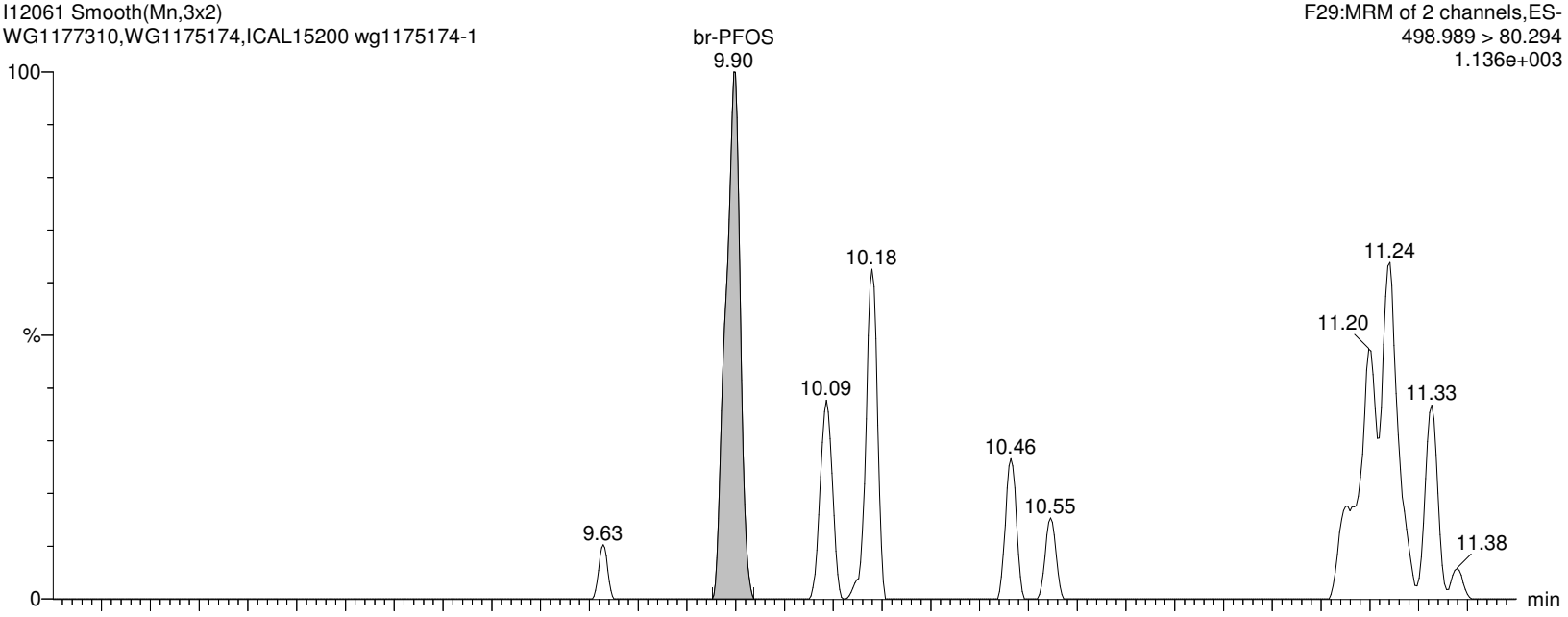

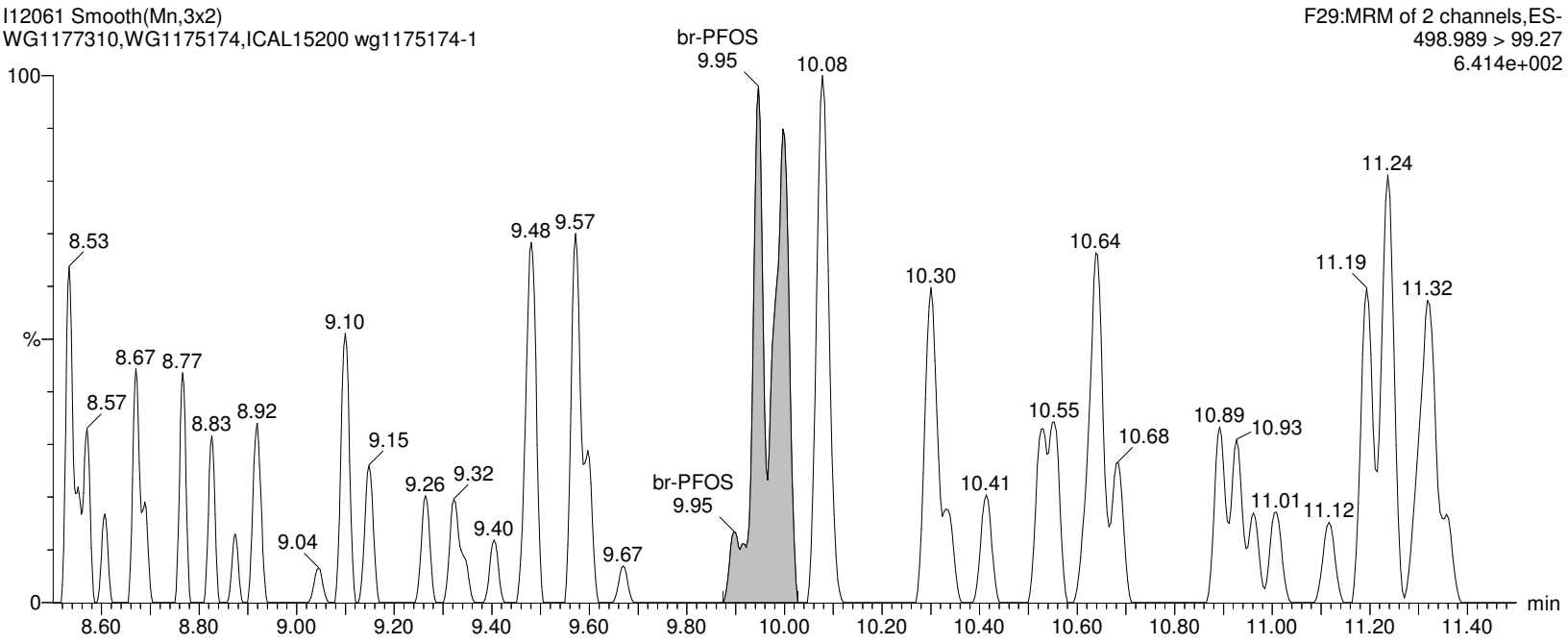

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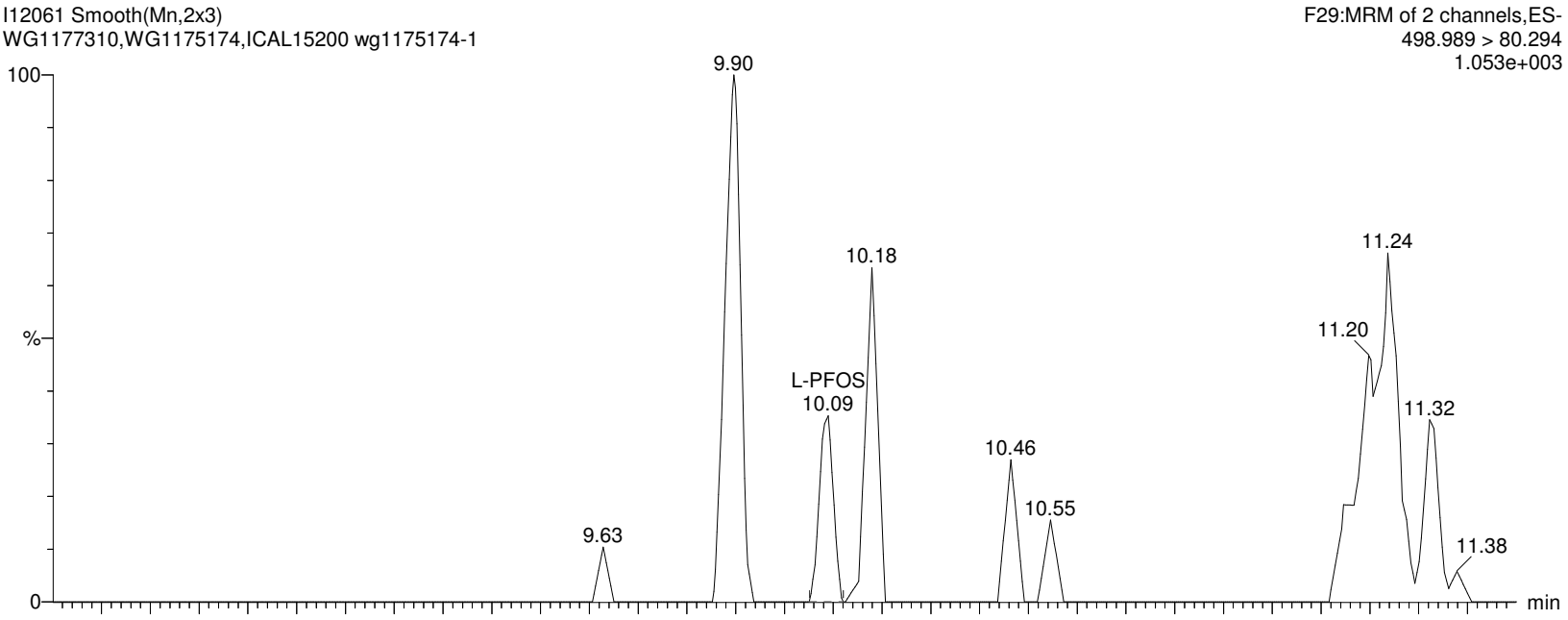

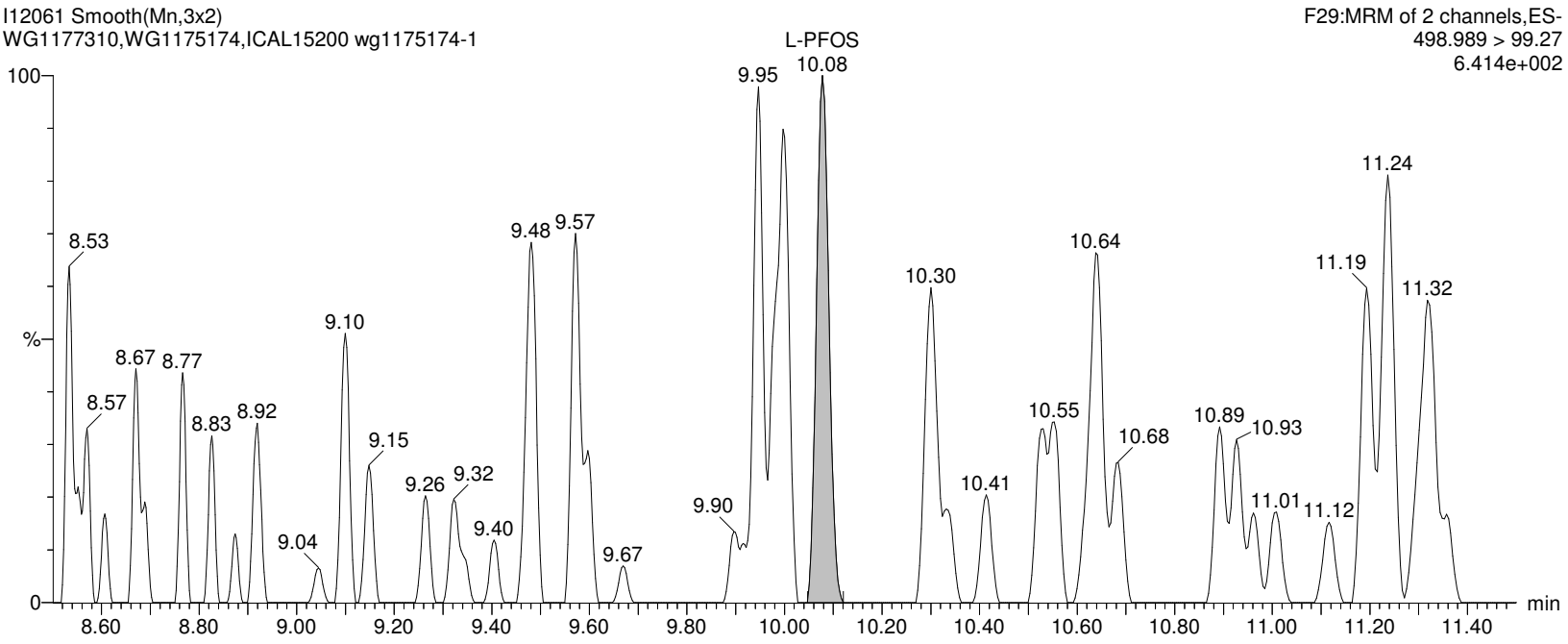

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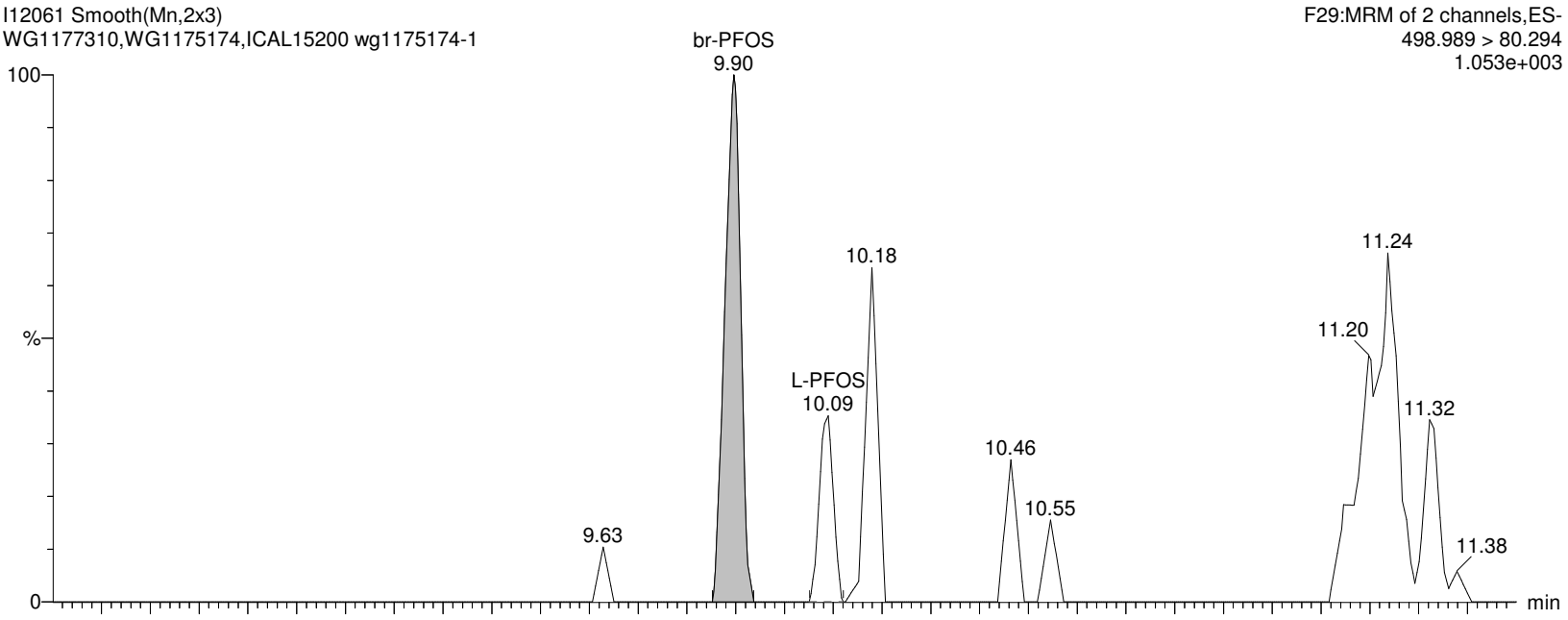

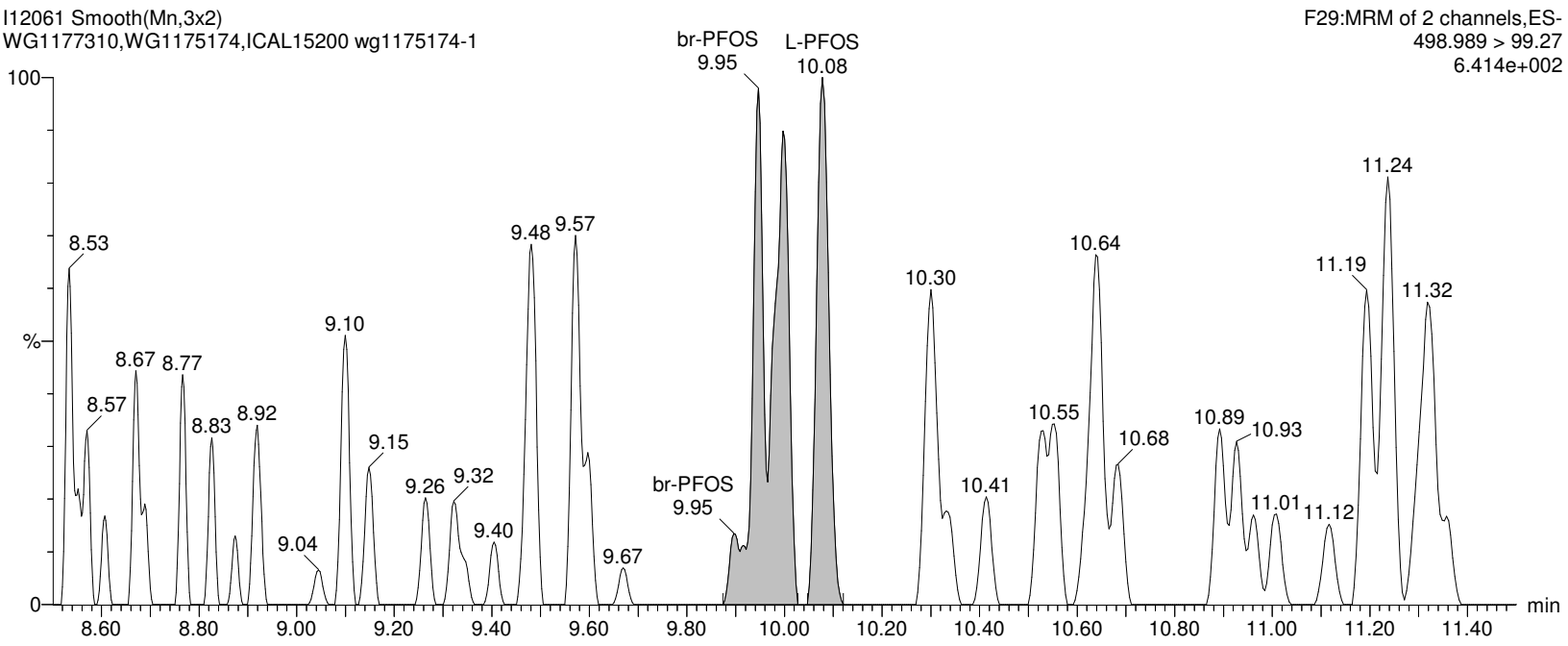

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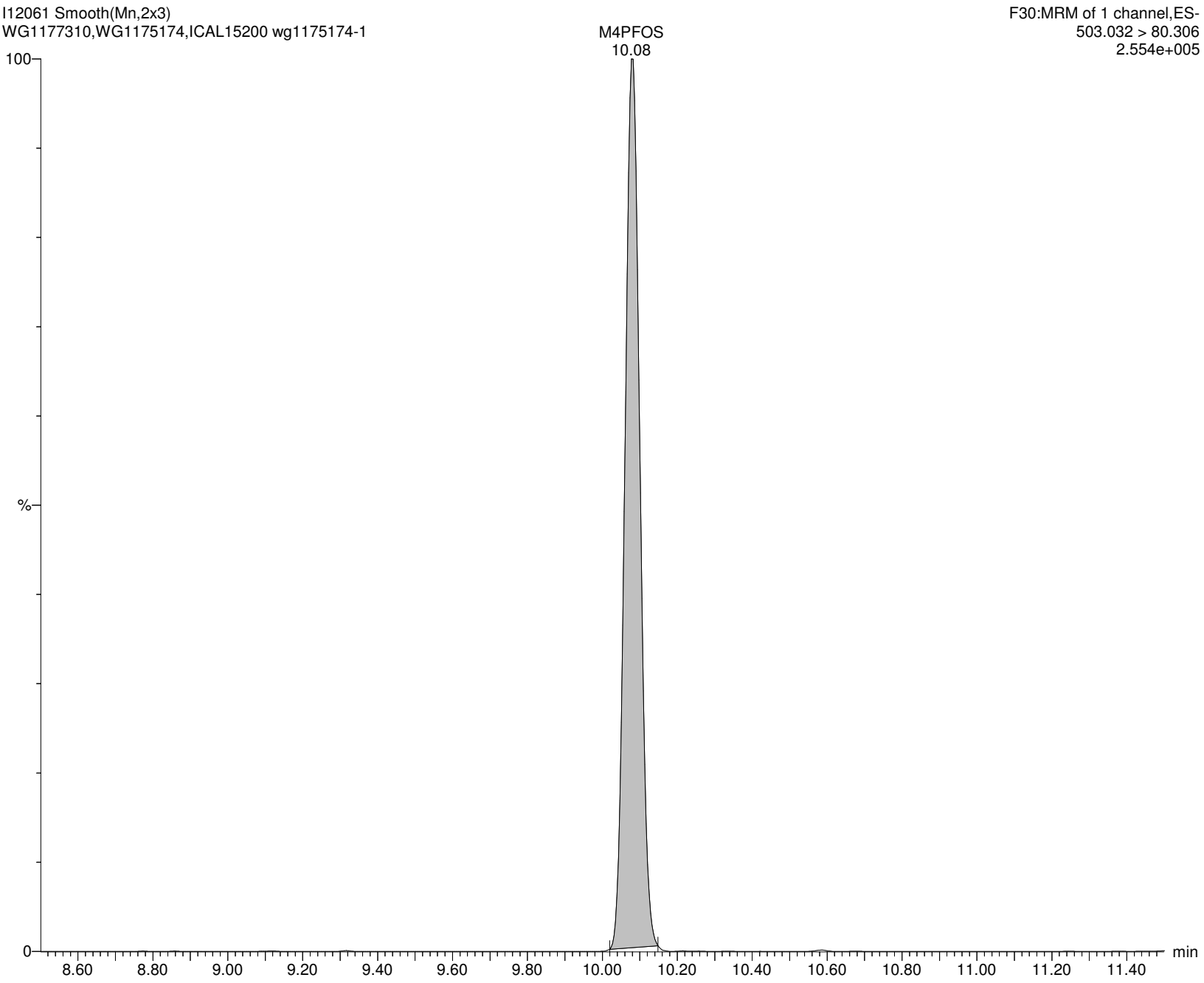

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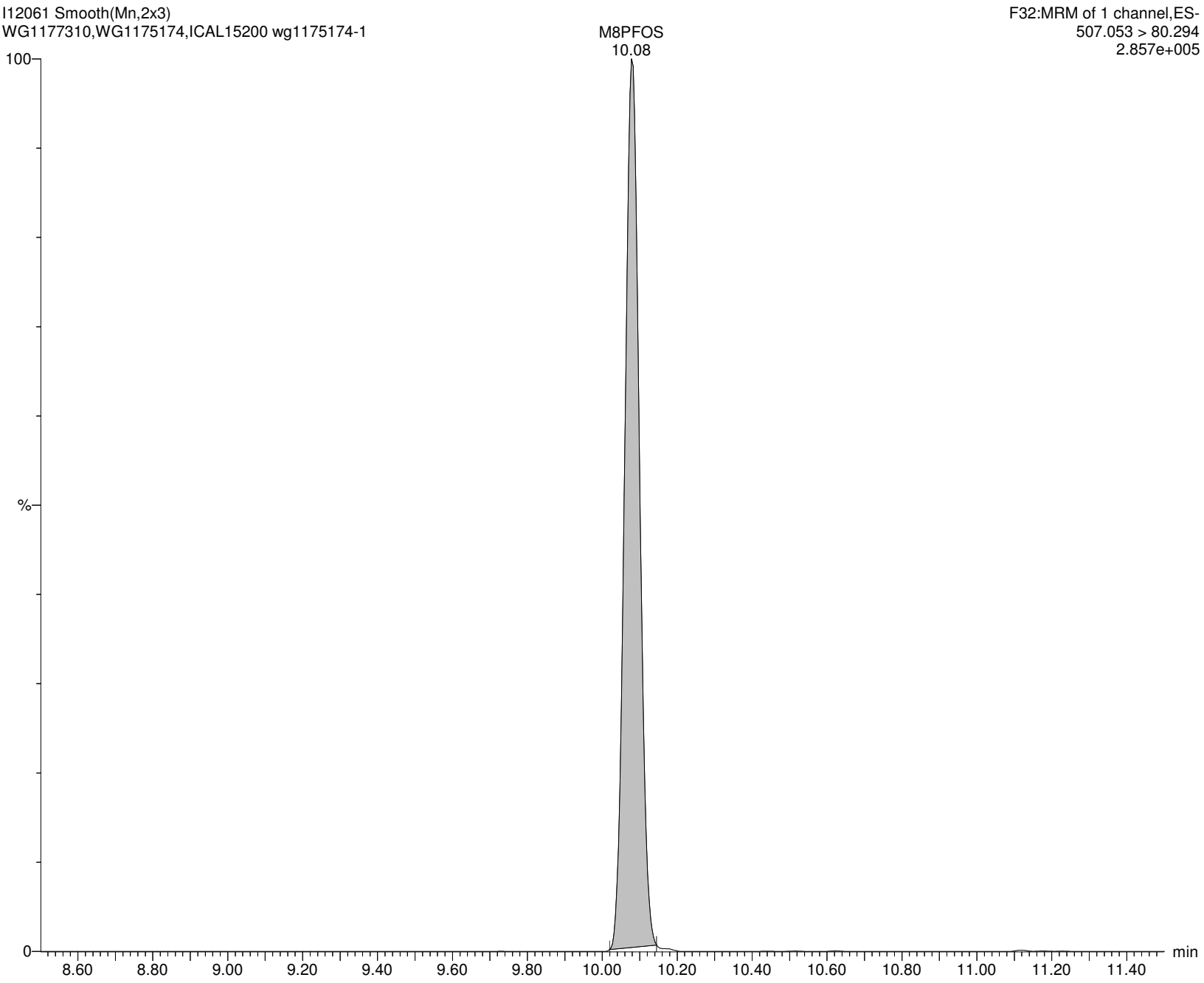

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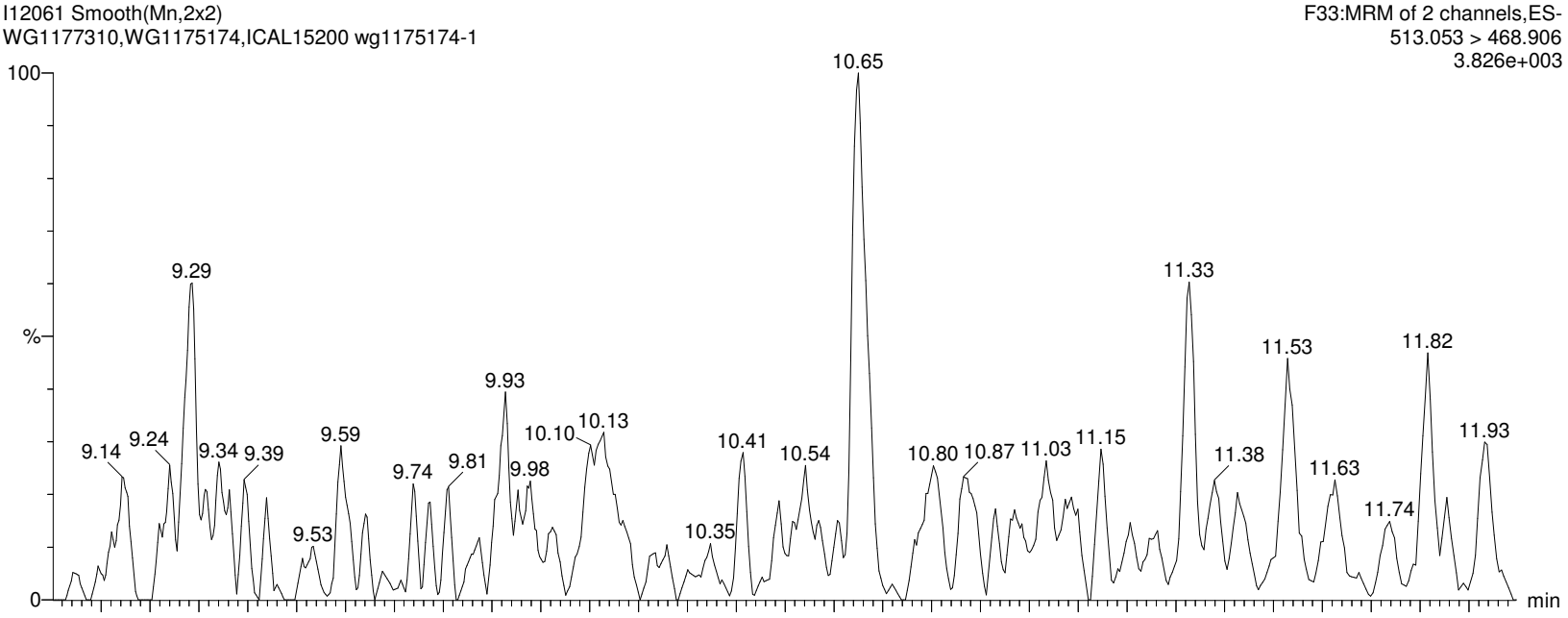

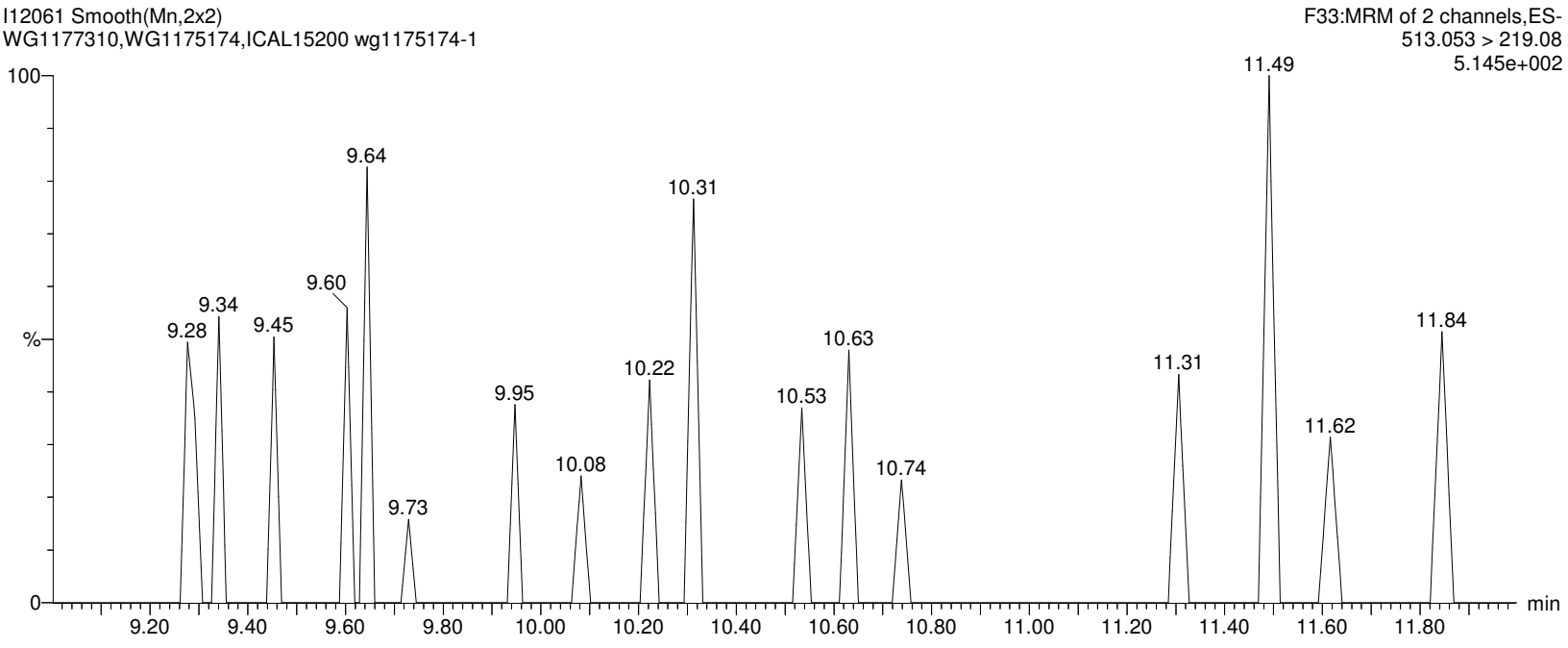

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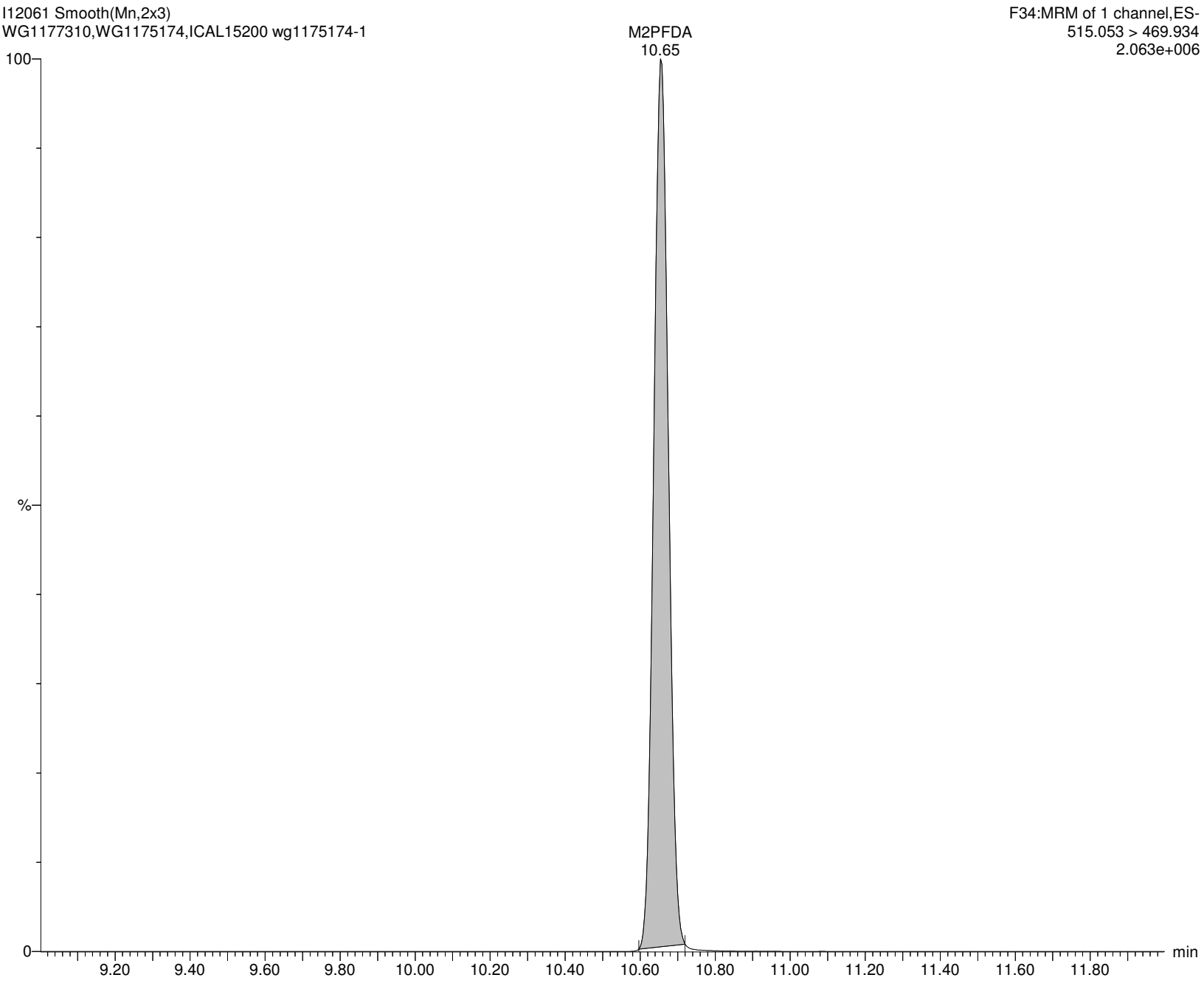

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Printed: Friday, November 09, 2018 06:41:05 Eastern Standard Time

Name: I12061
ID: wg1175174-1
Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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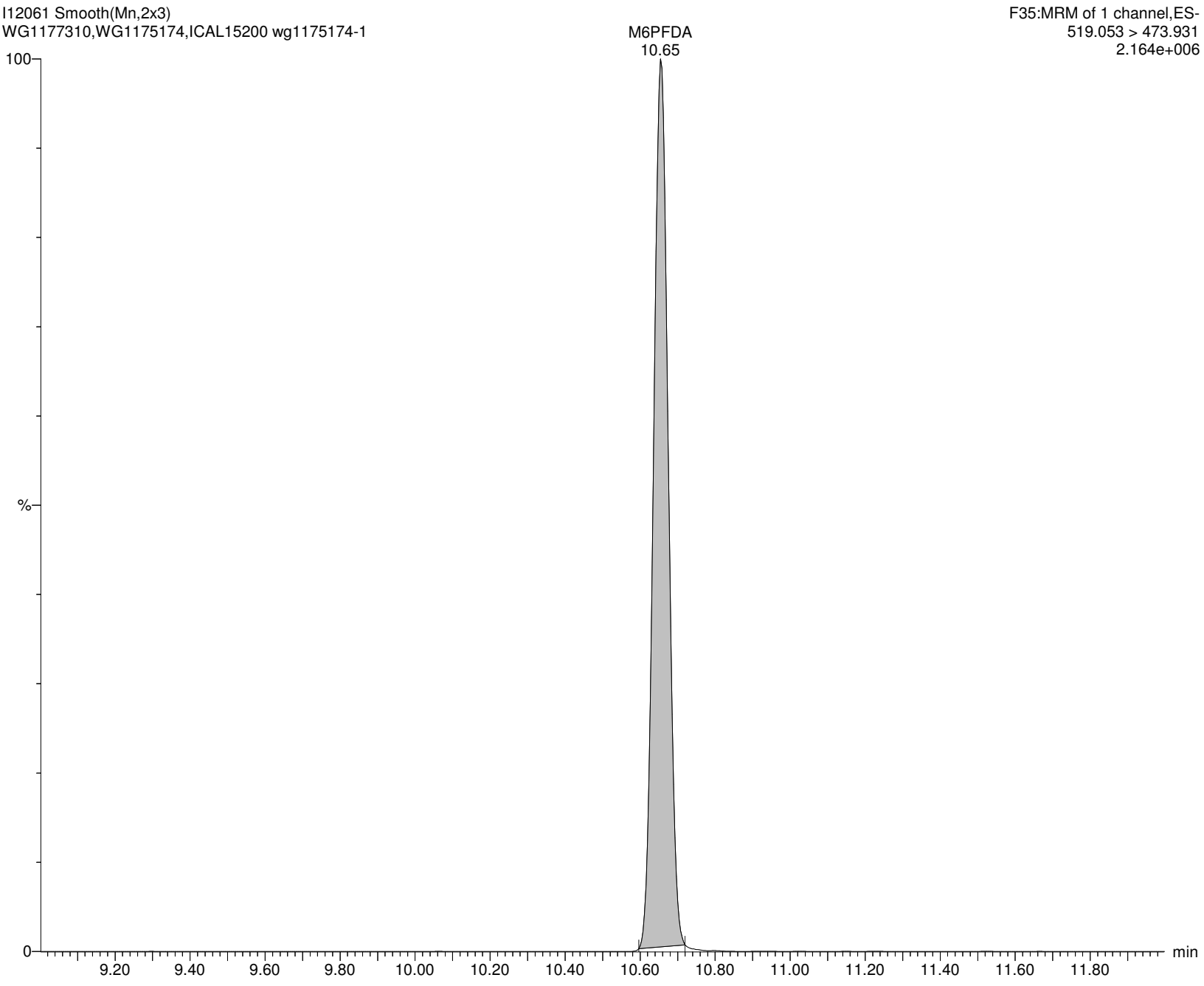

all concentration units in (ng/mL)

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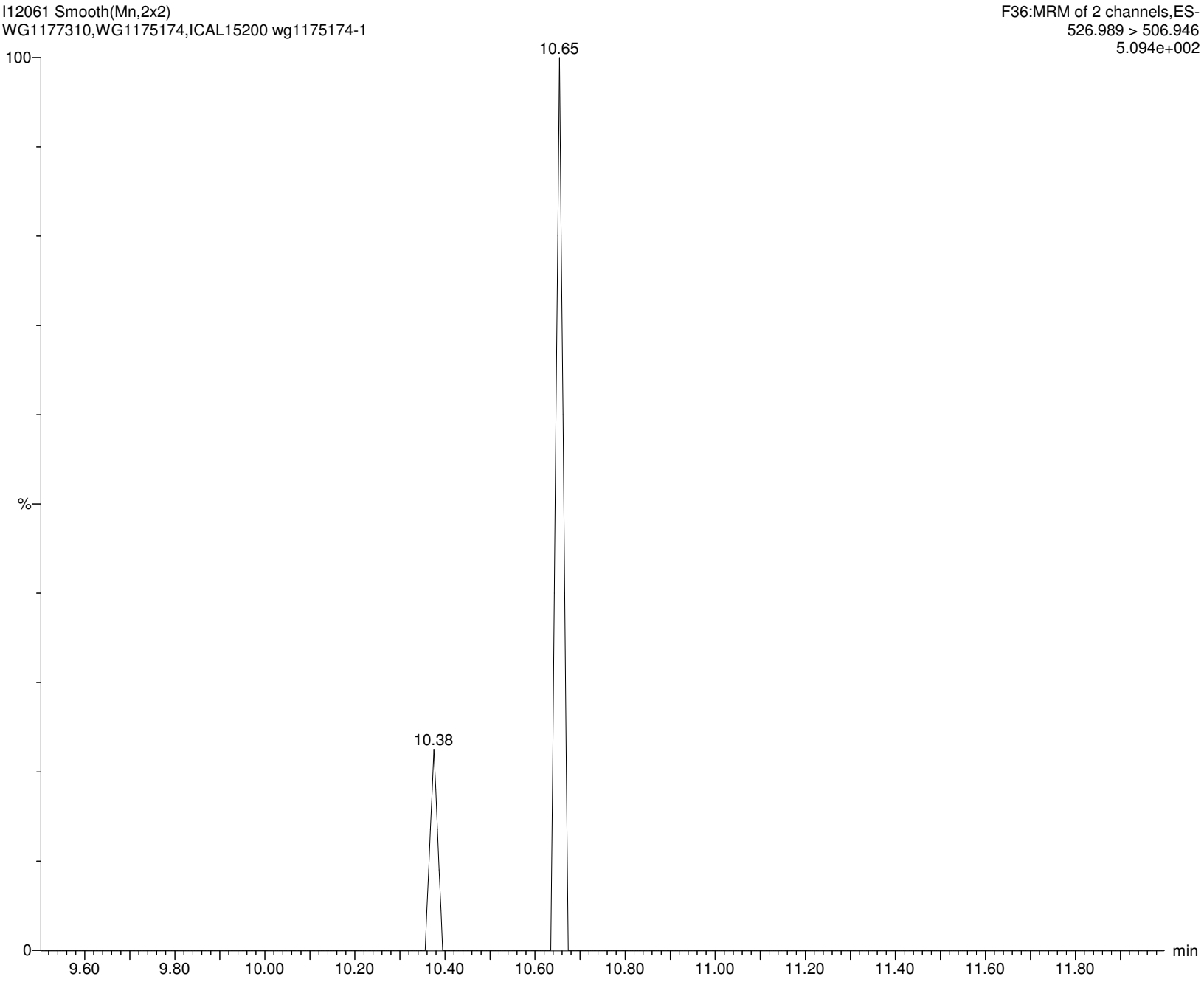

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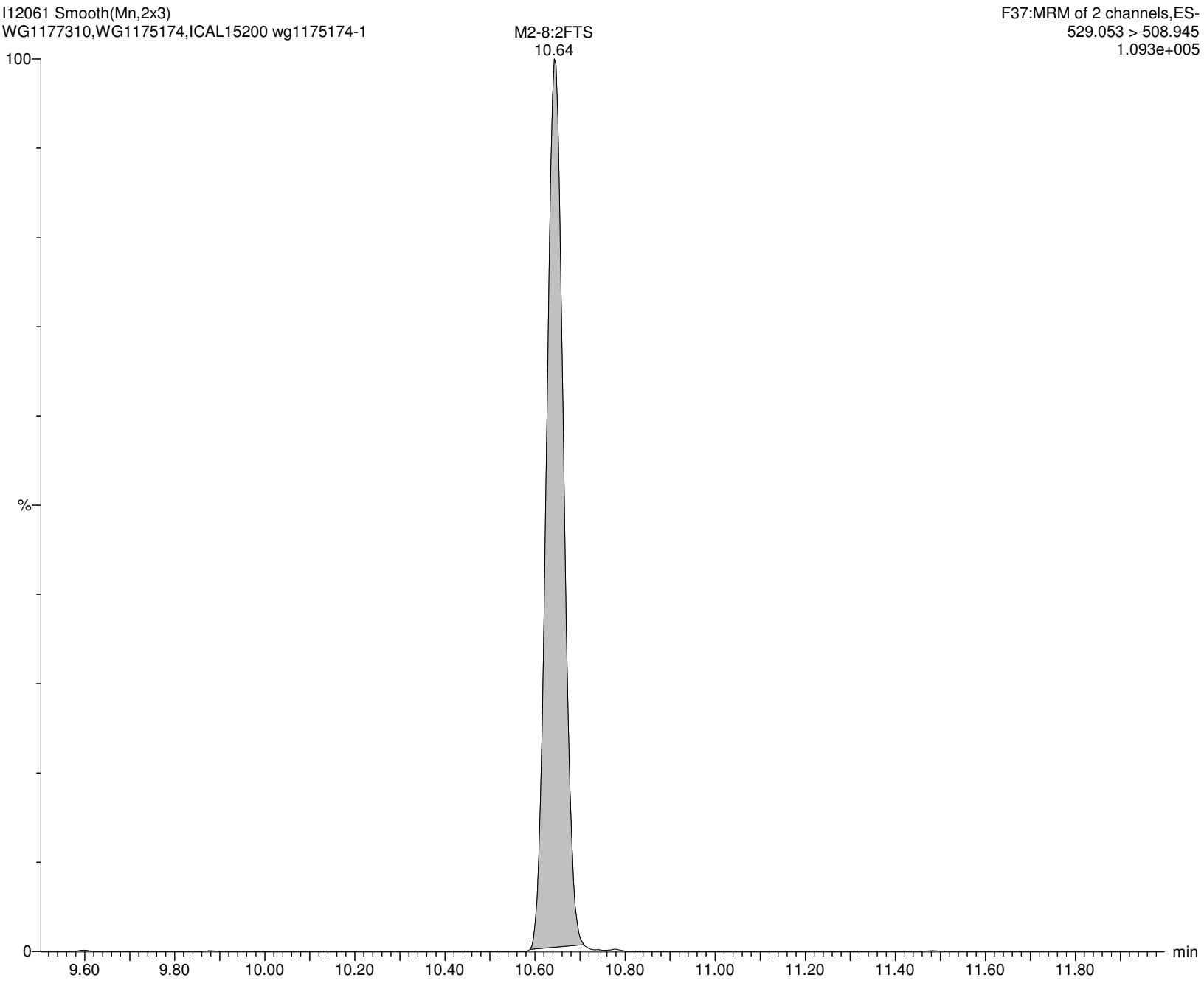

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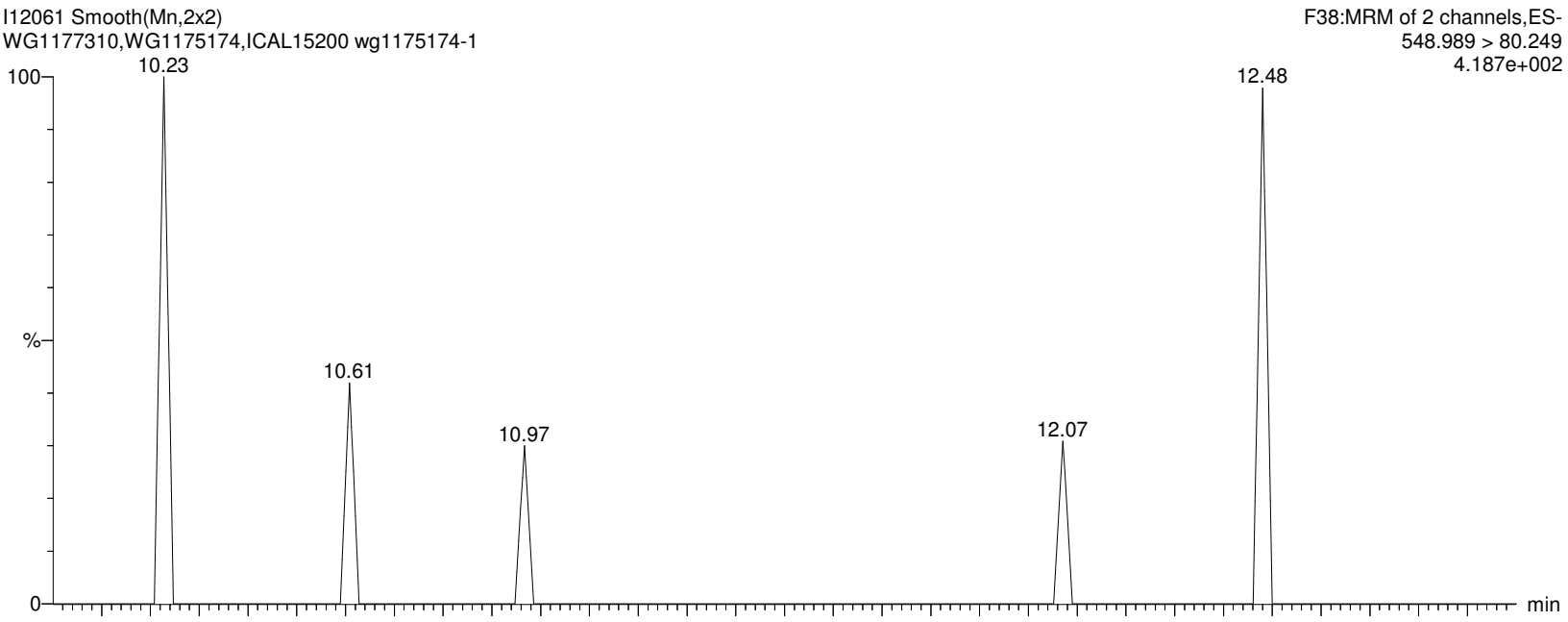

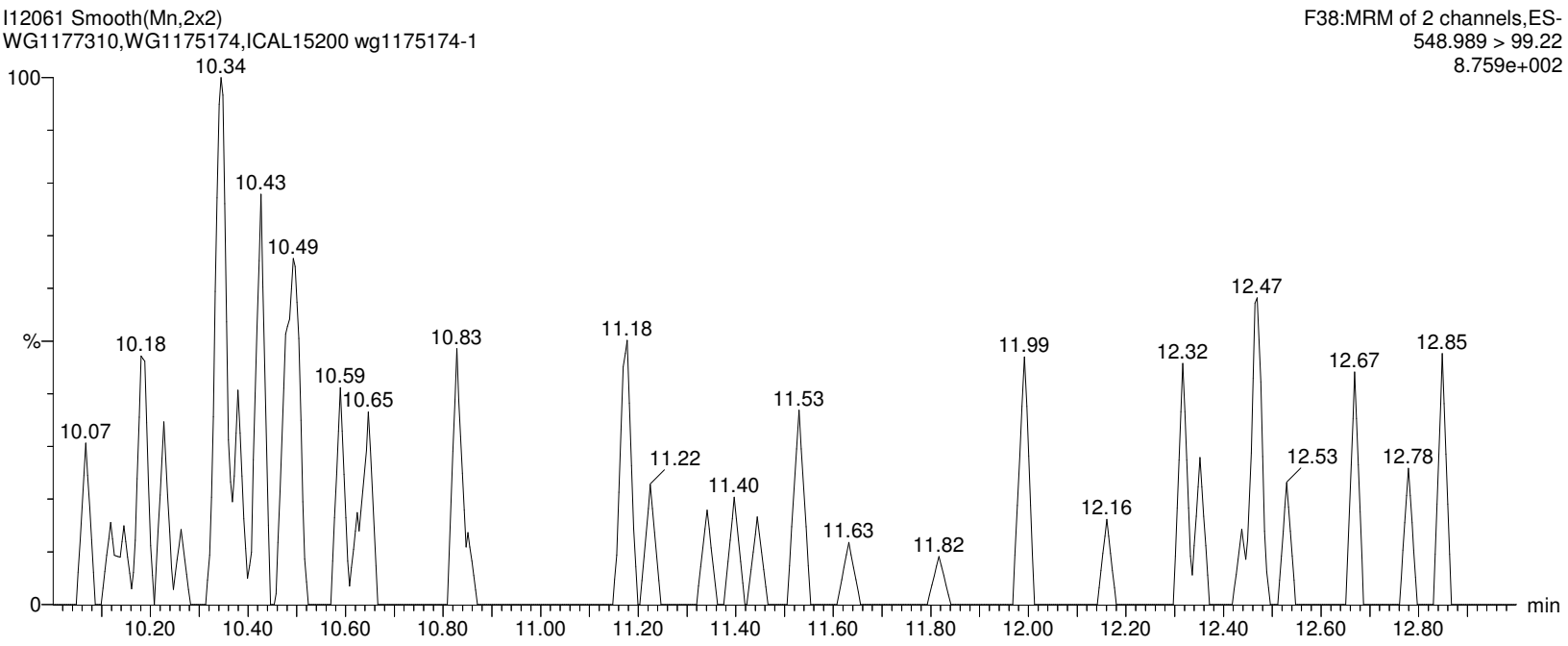

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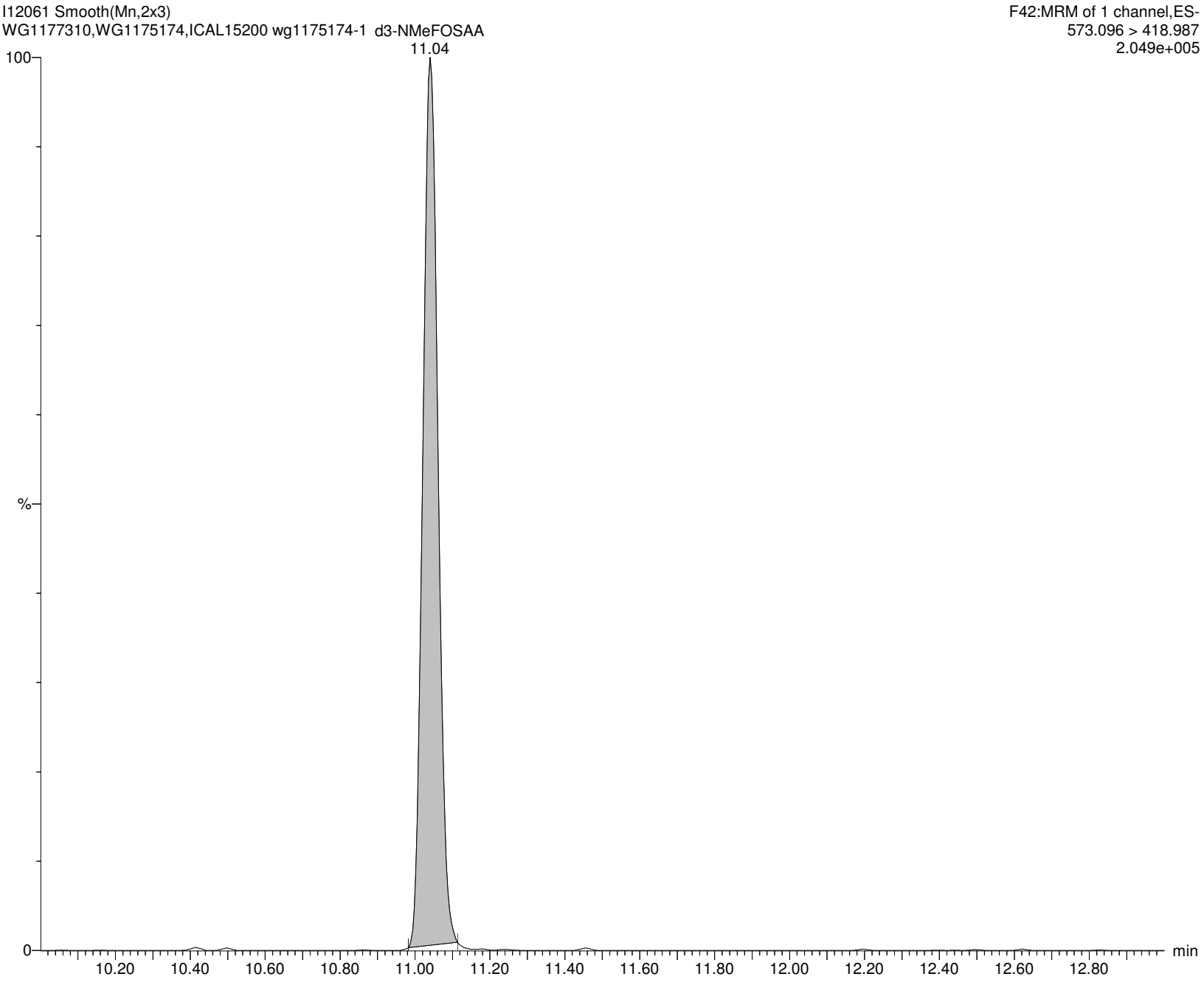

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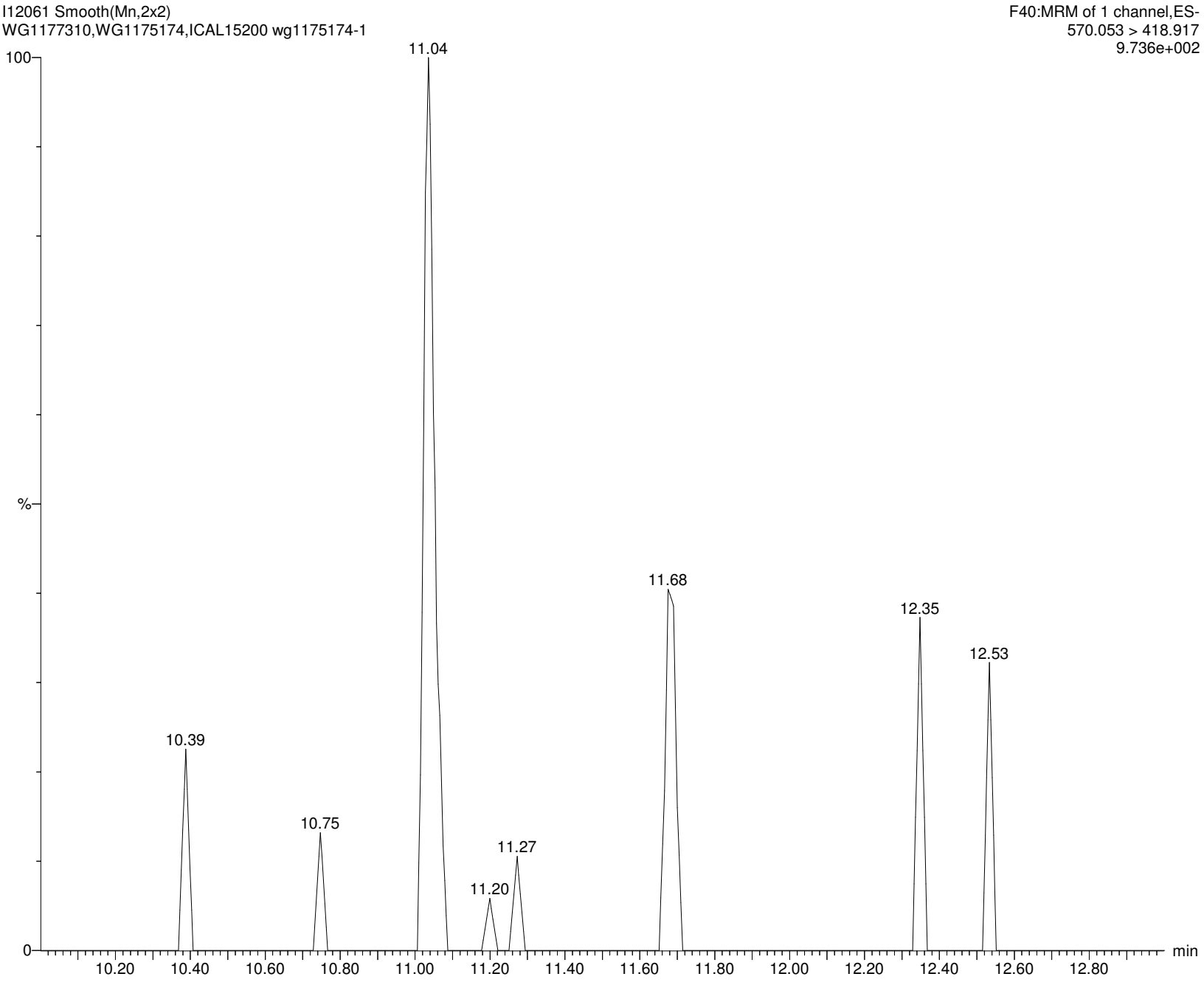

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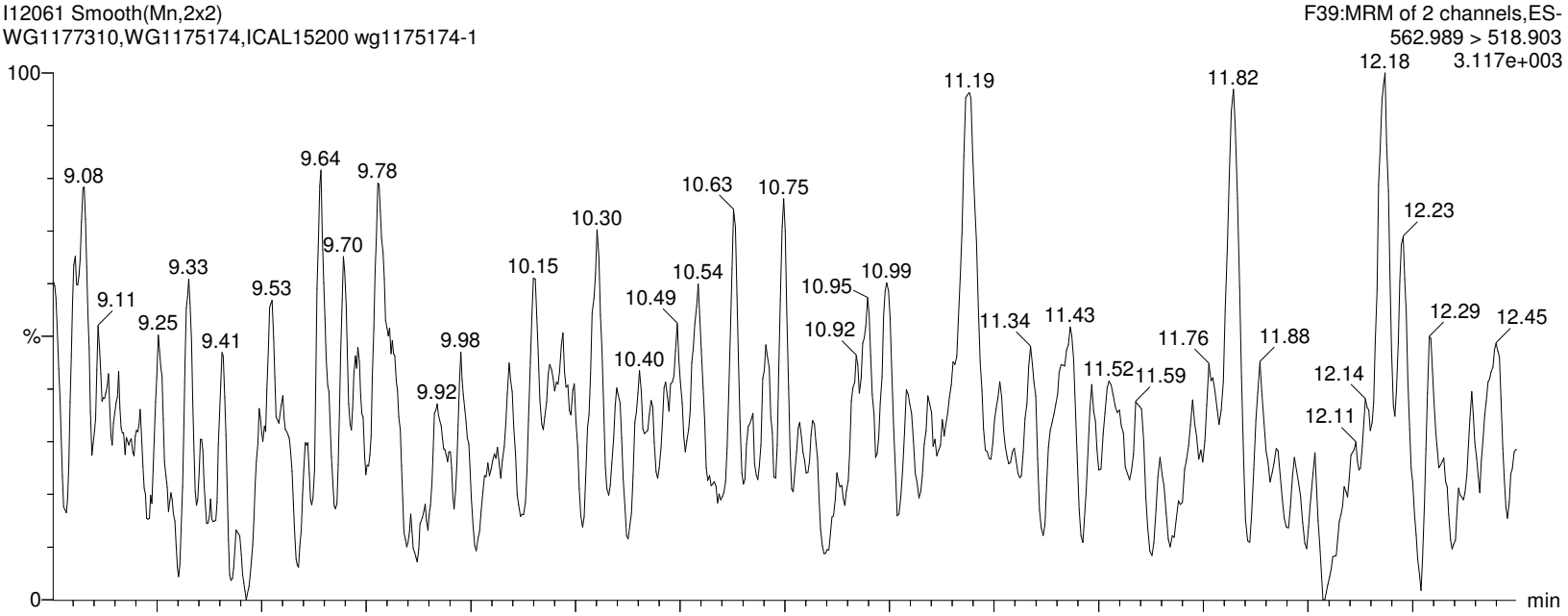

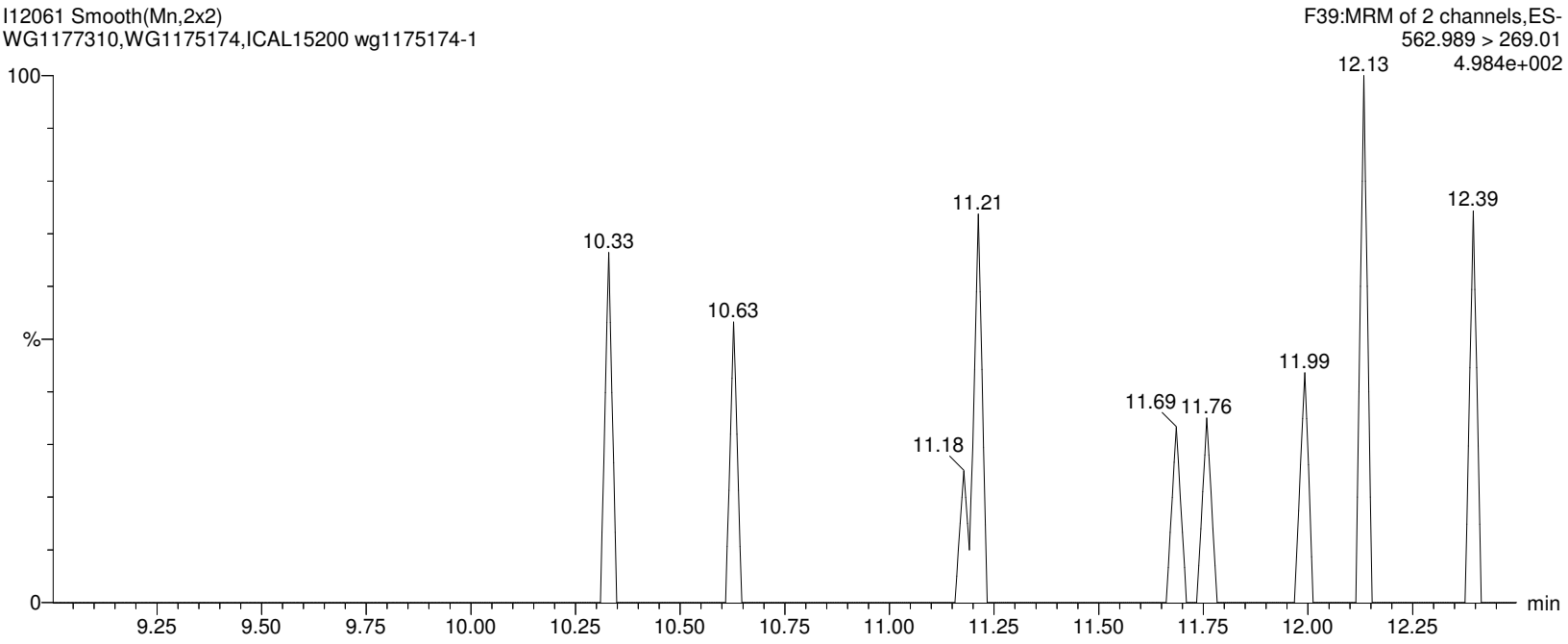

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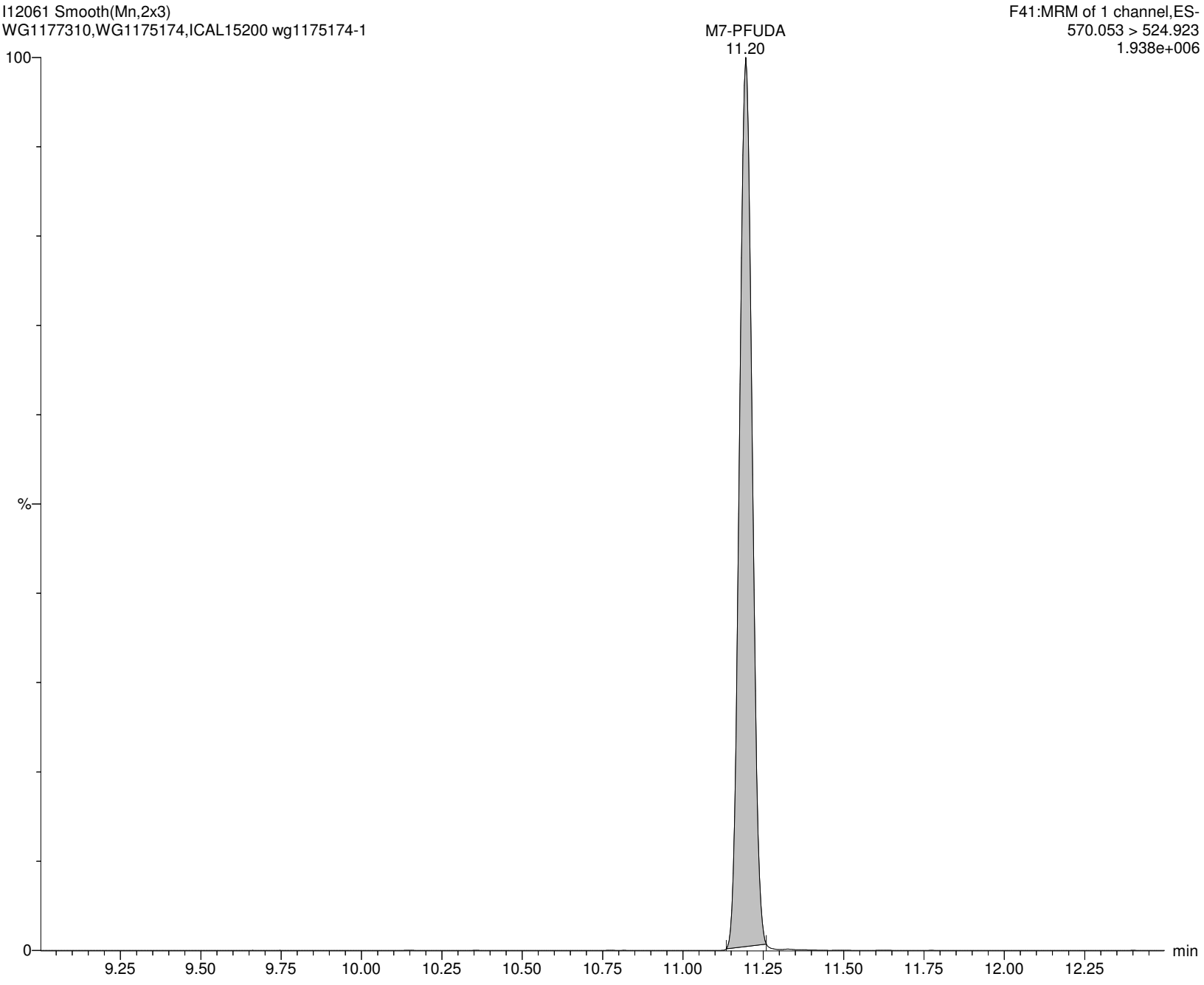

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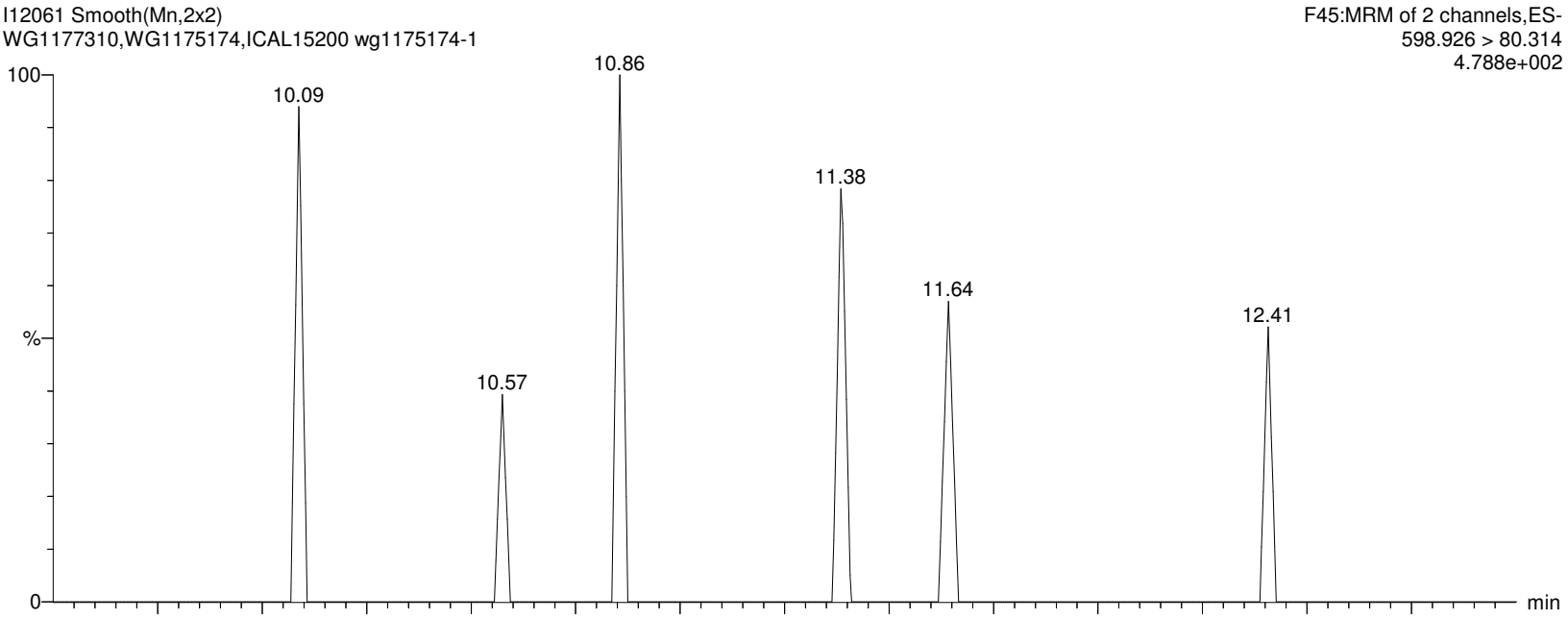

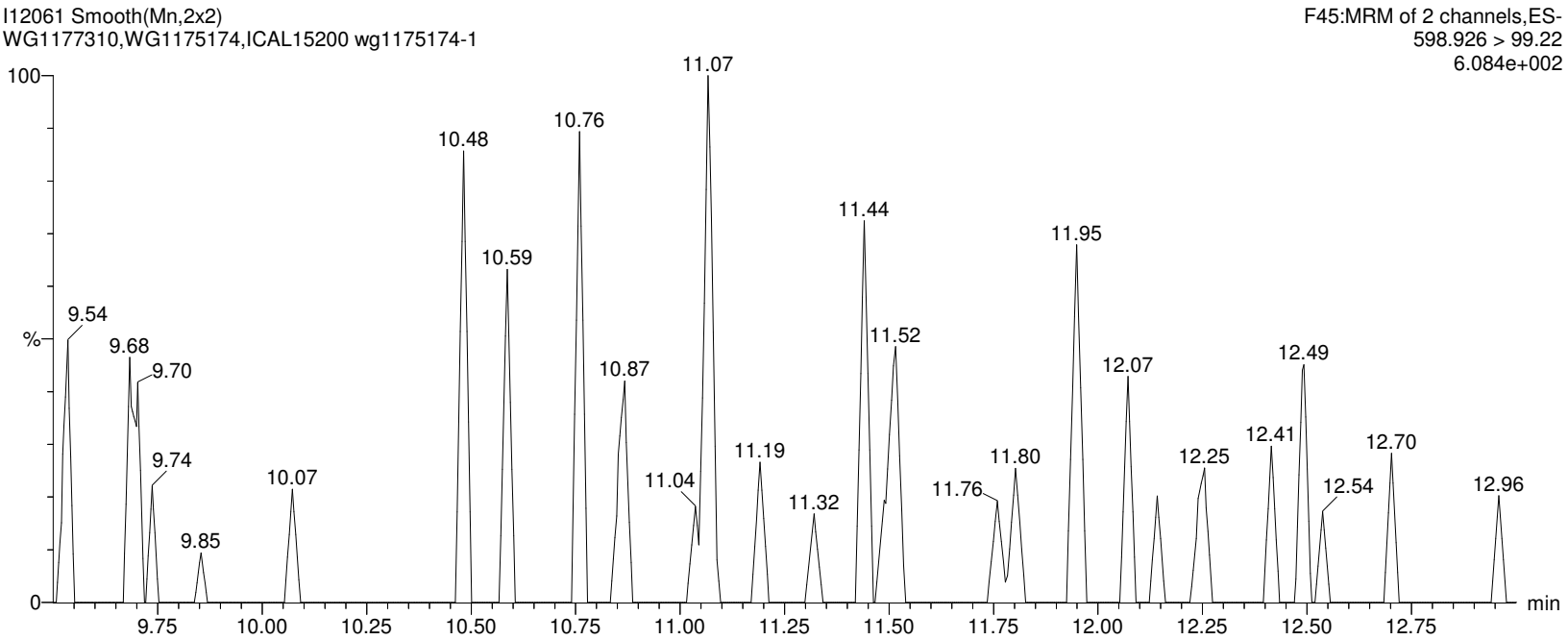

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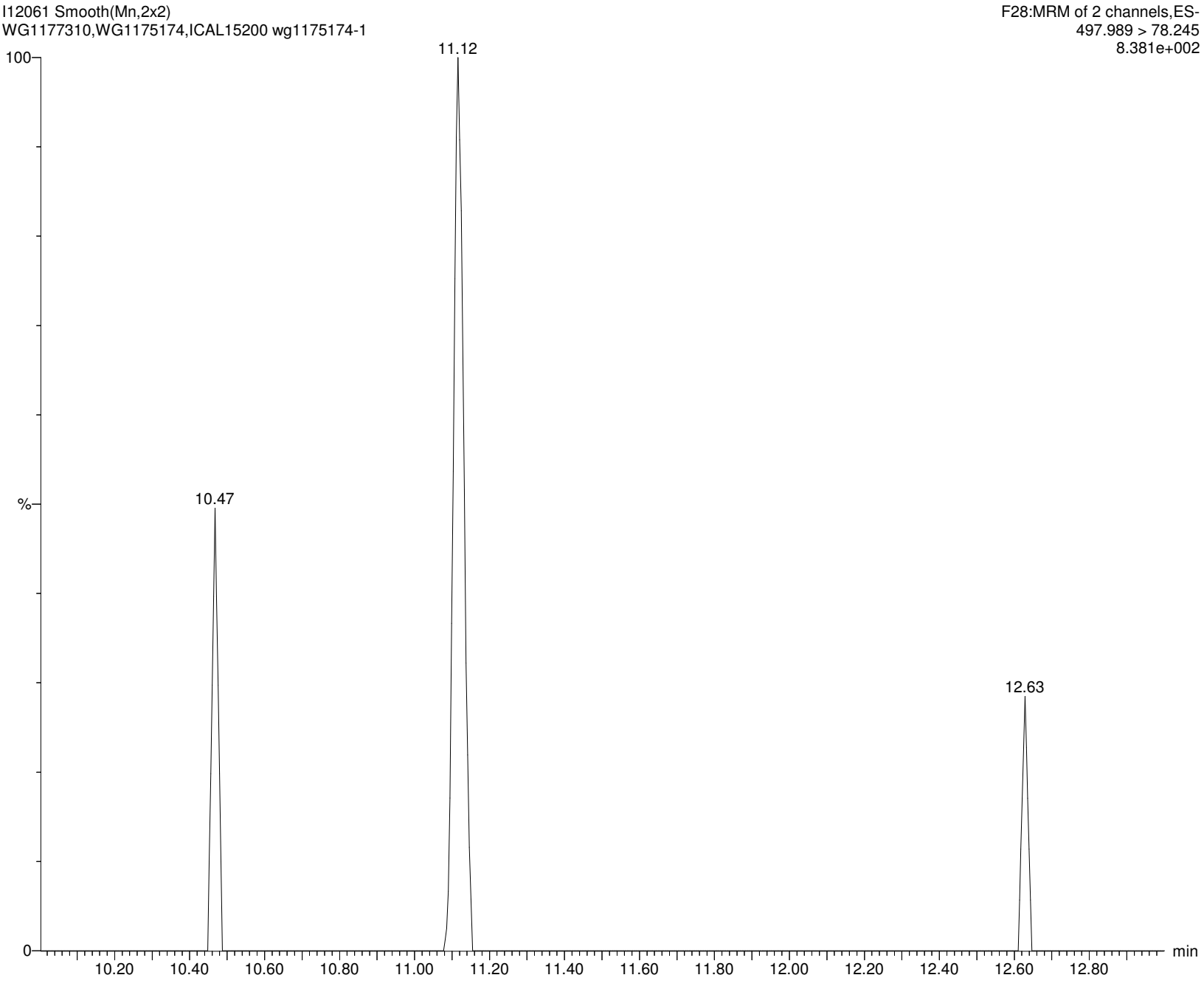

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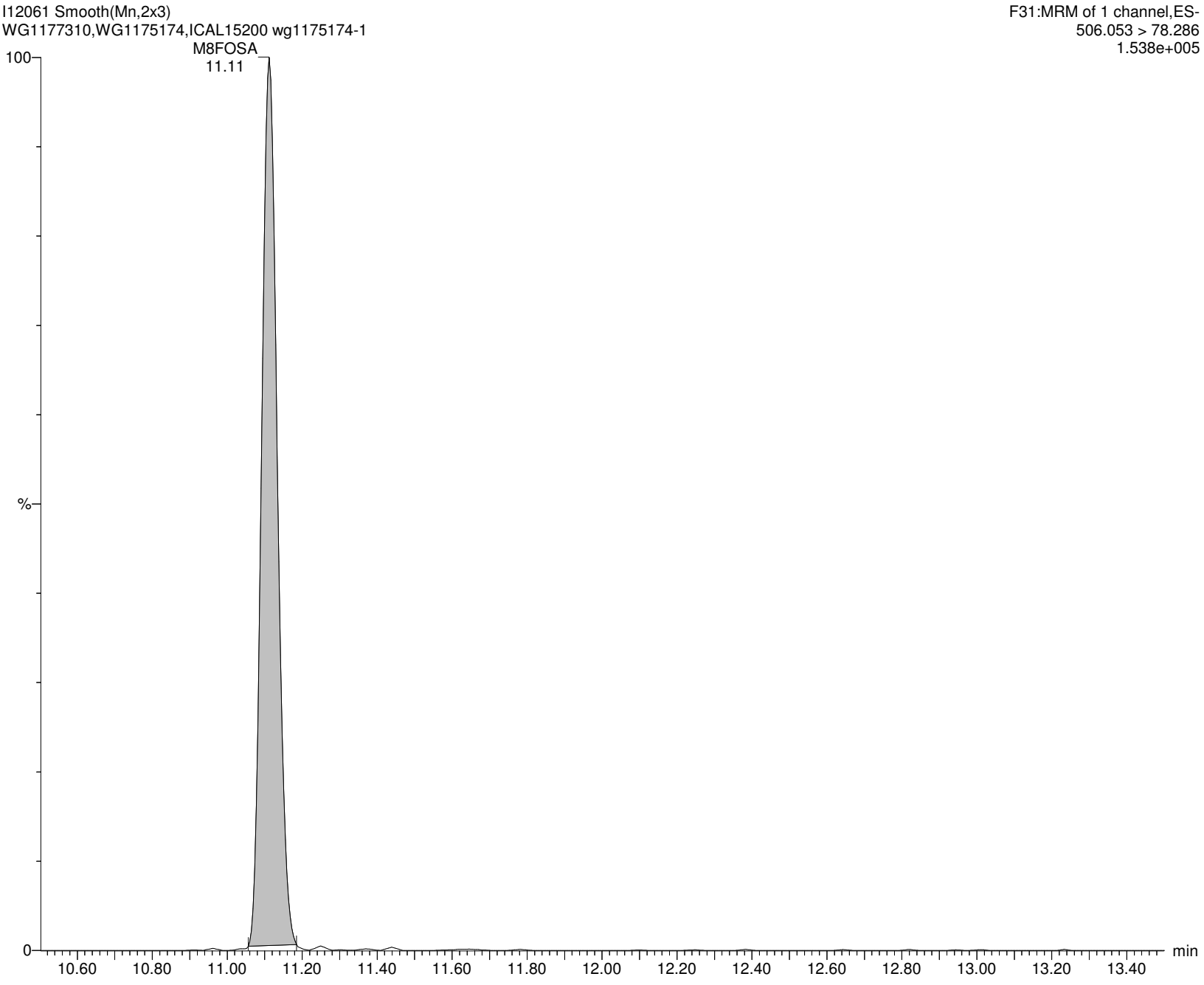

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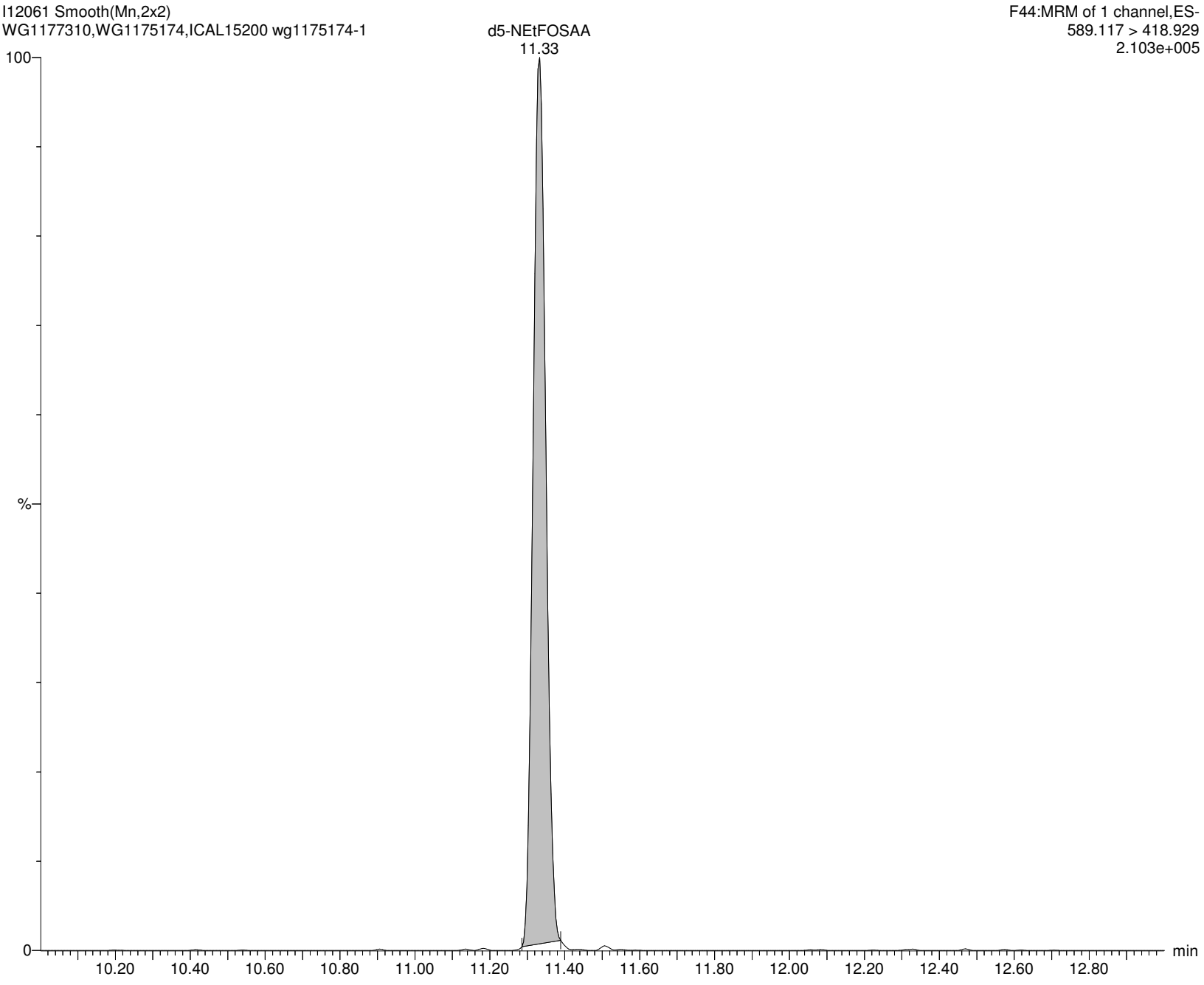

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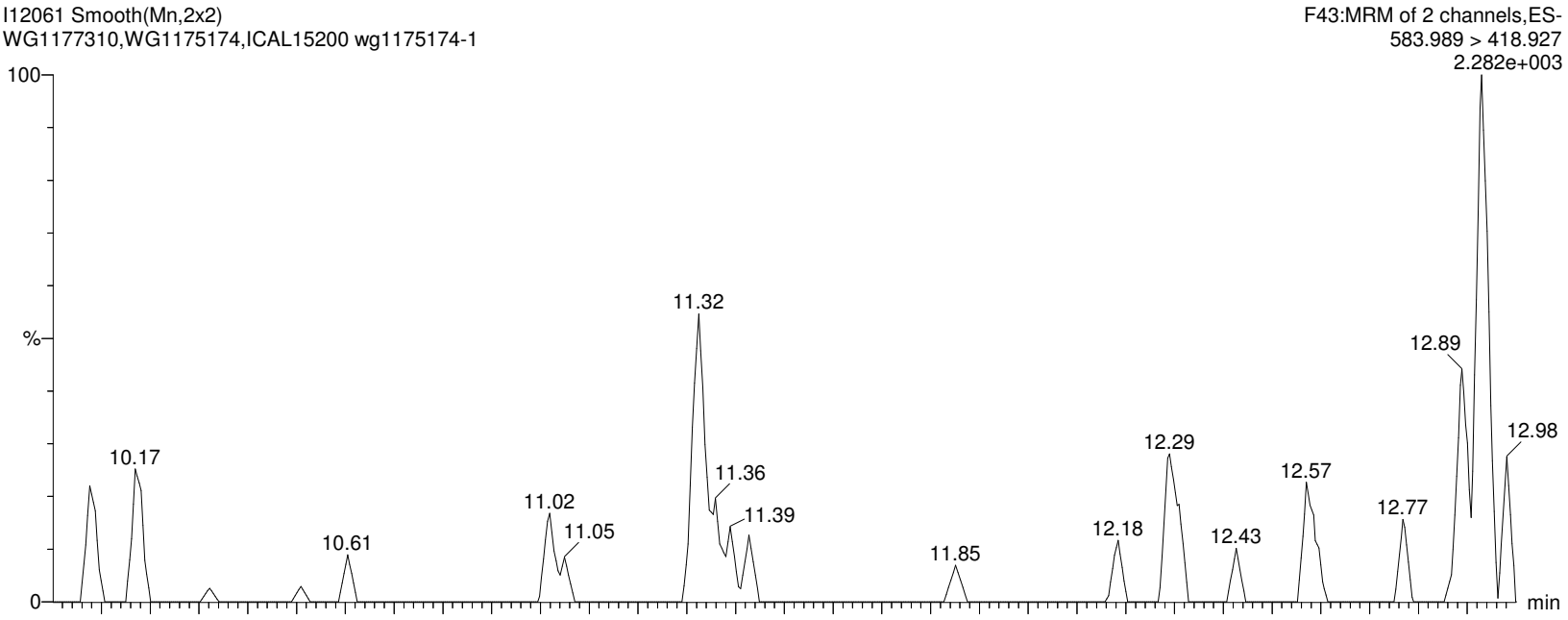

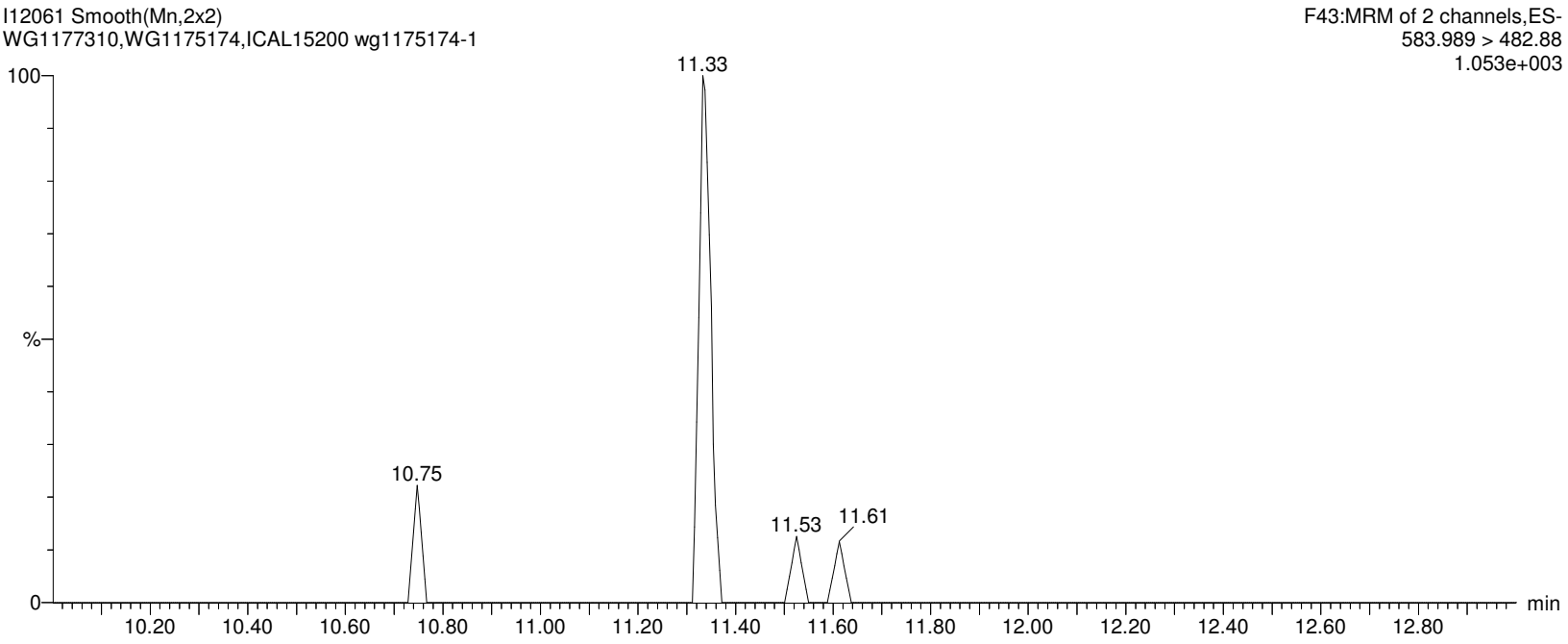

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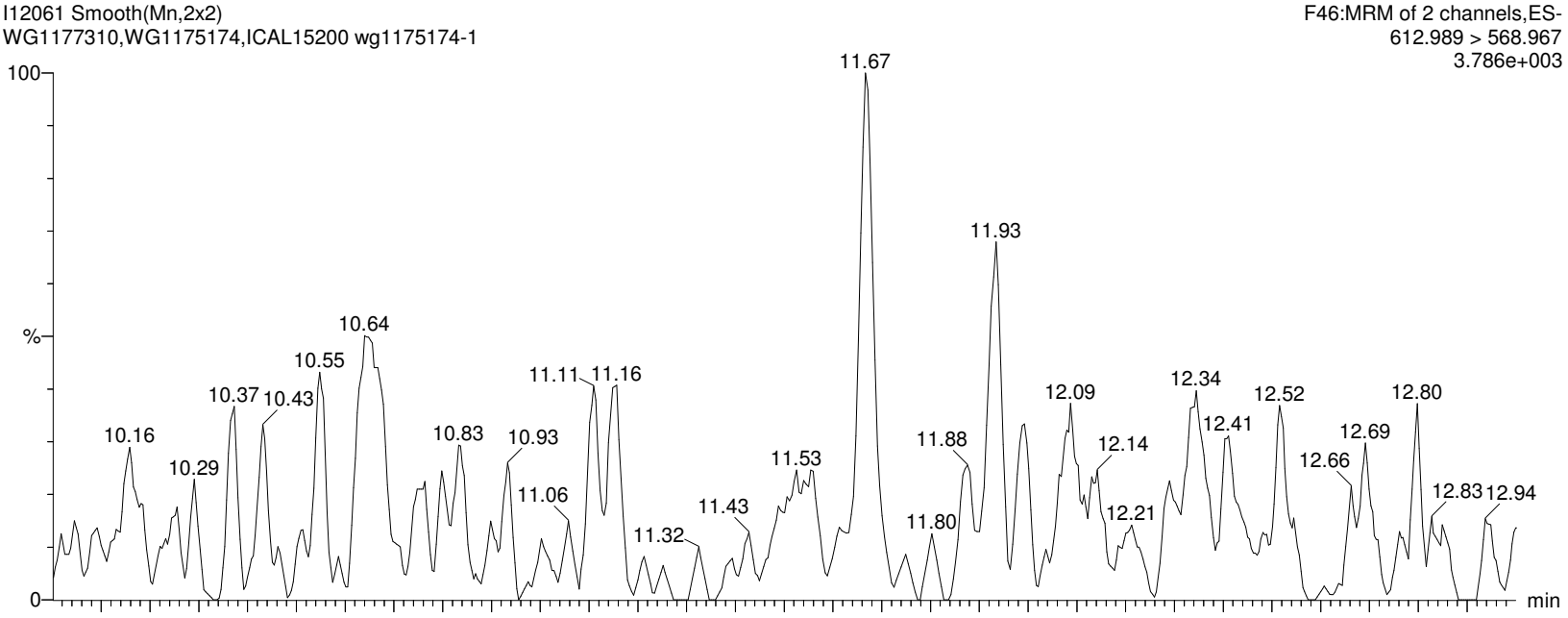

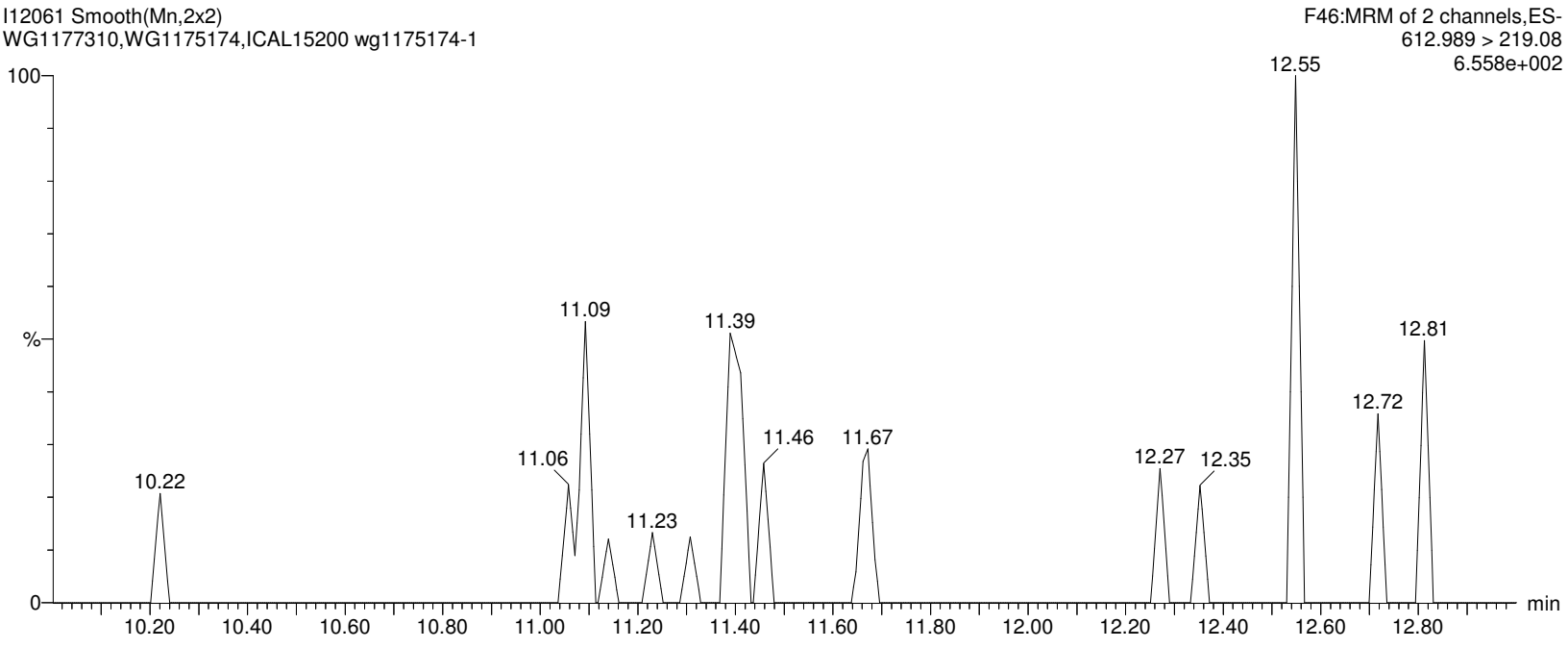

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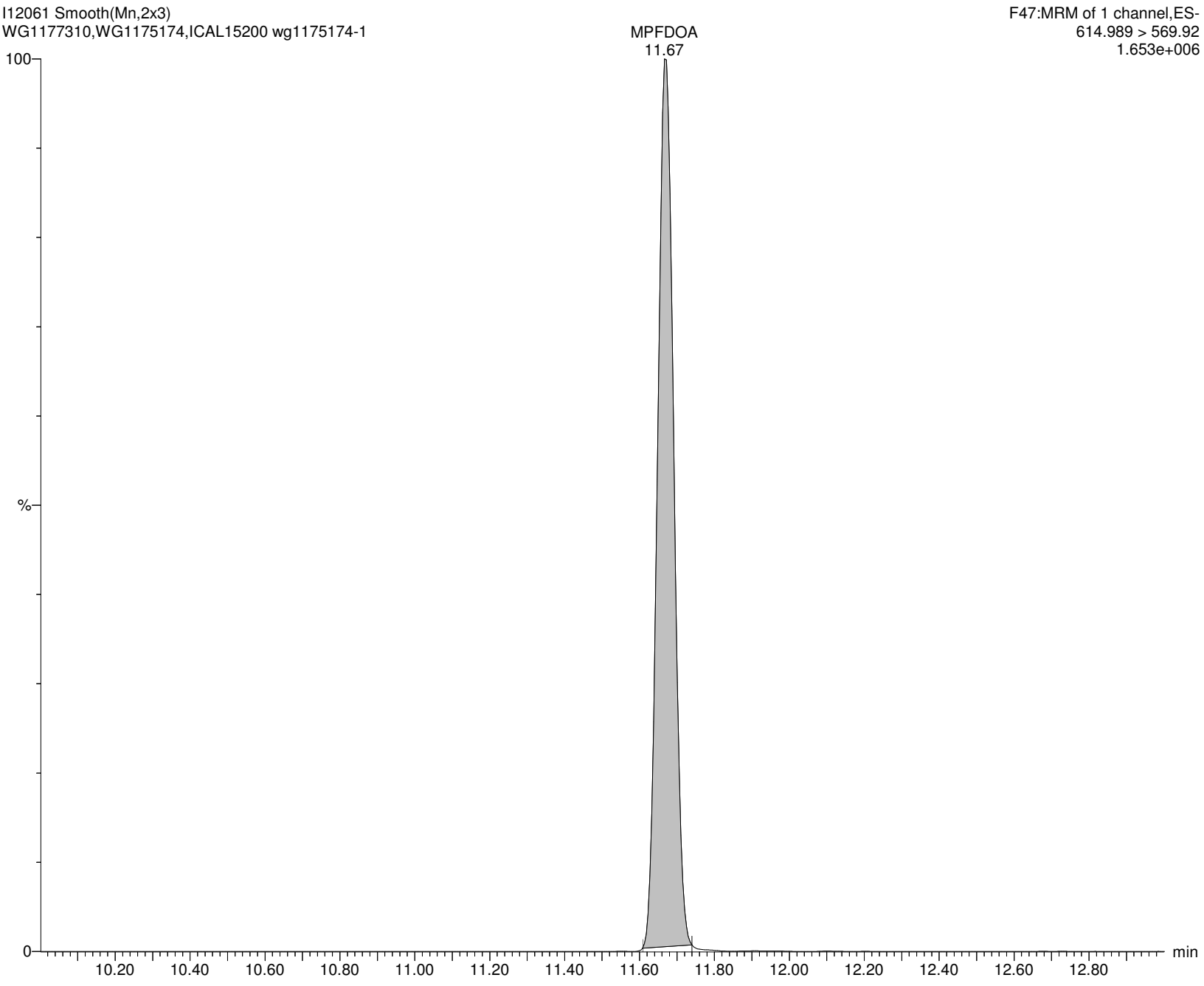

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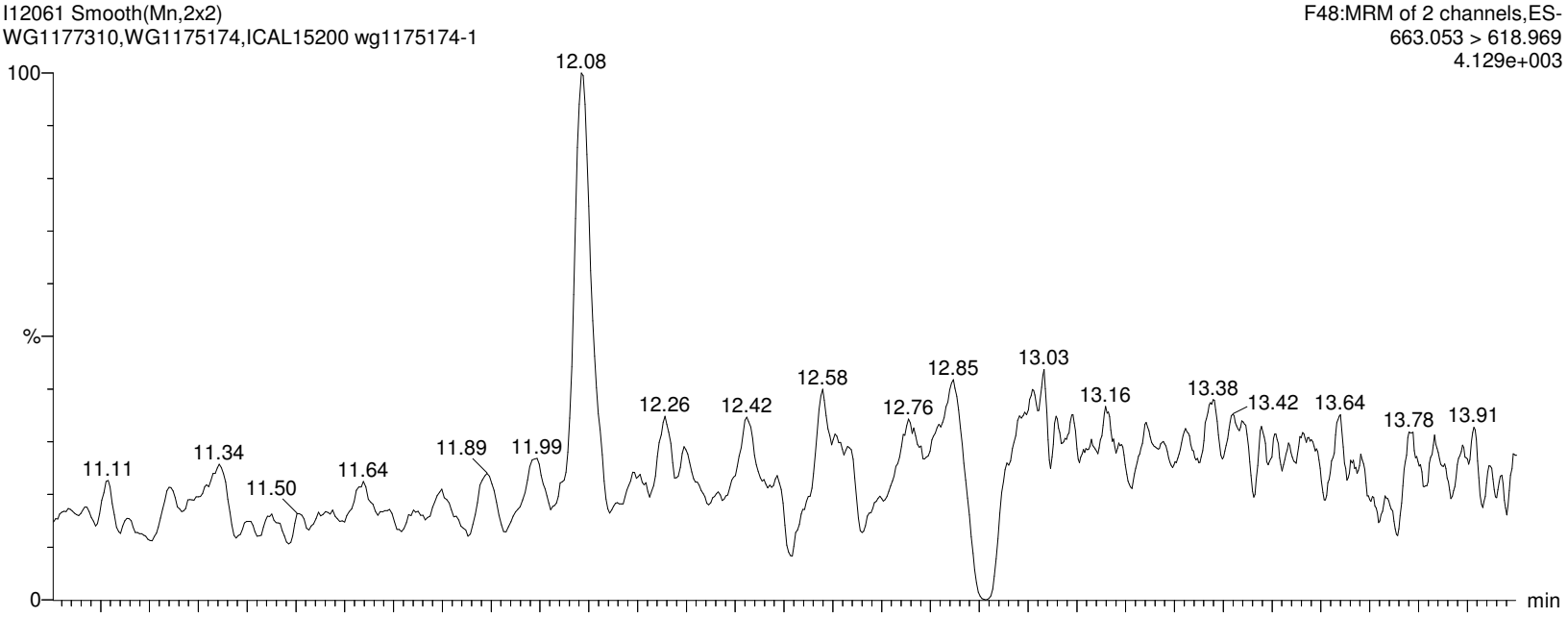

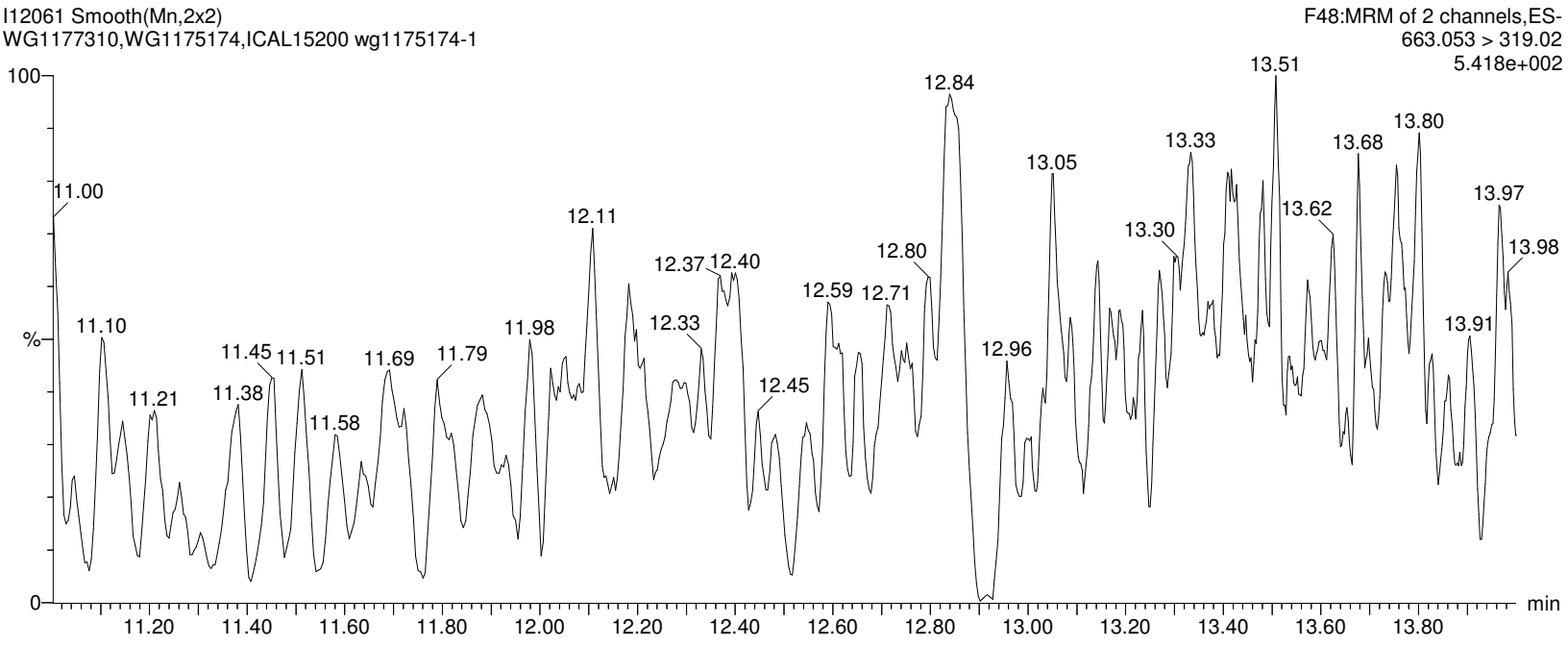

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MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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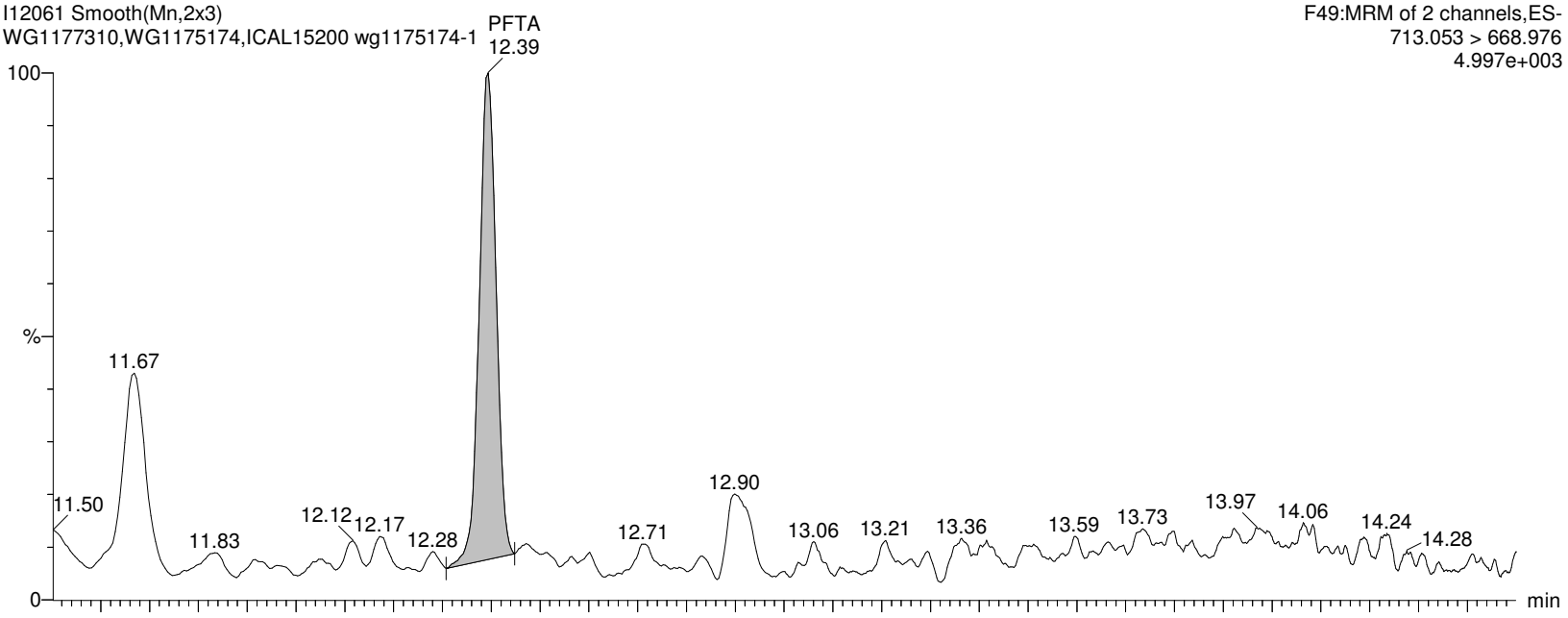

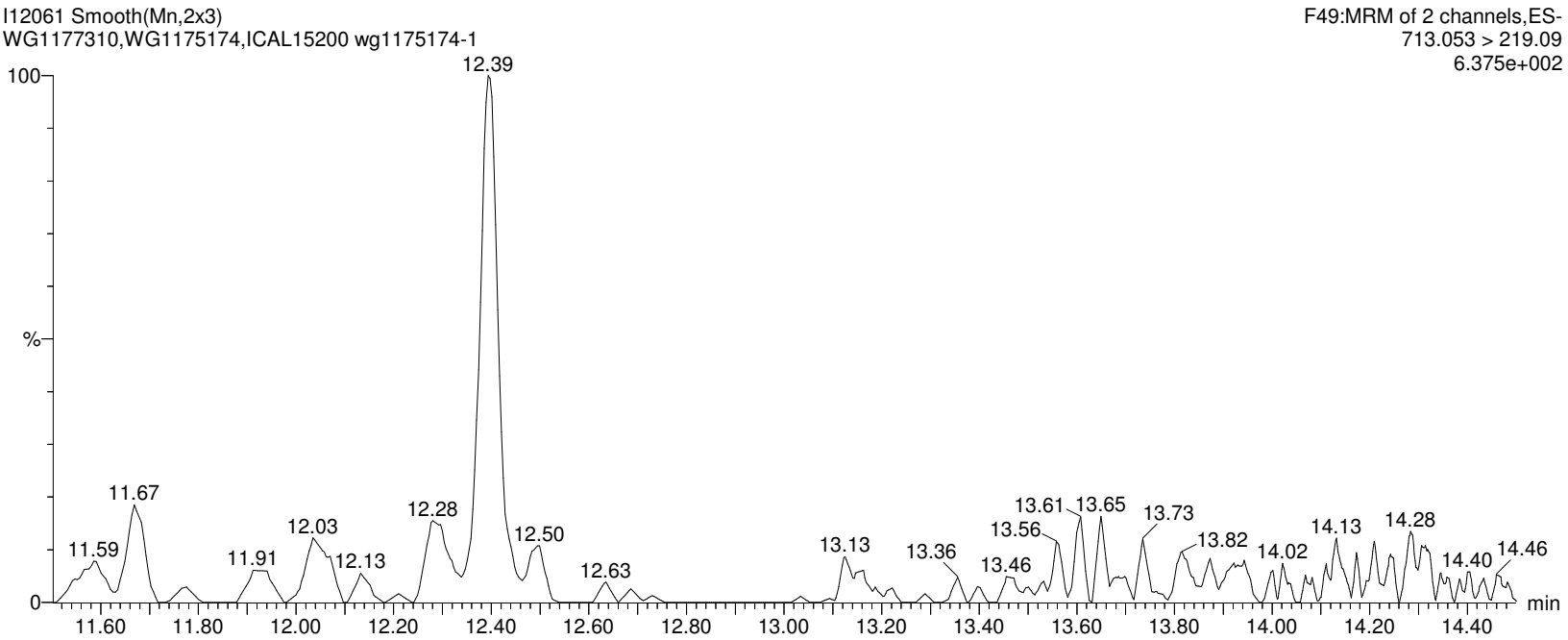

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:05 Eastern Standard Time

Name: I12061
ID: wg1175174-1
Date: 08-Nov-2018
Time: 13:28:55
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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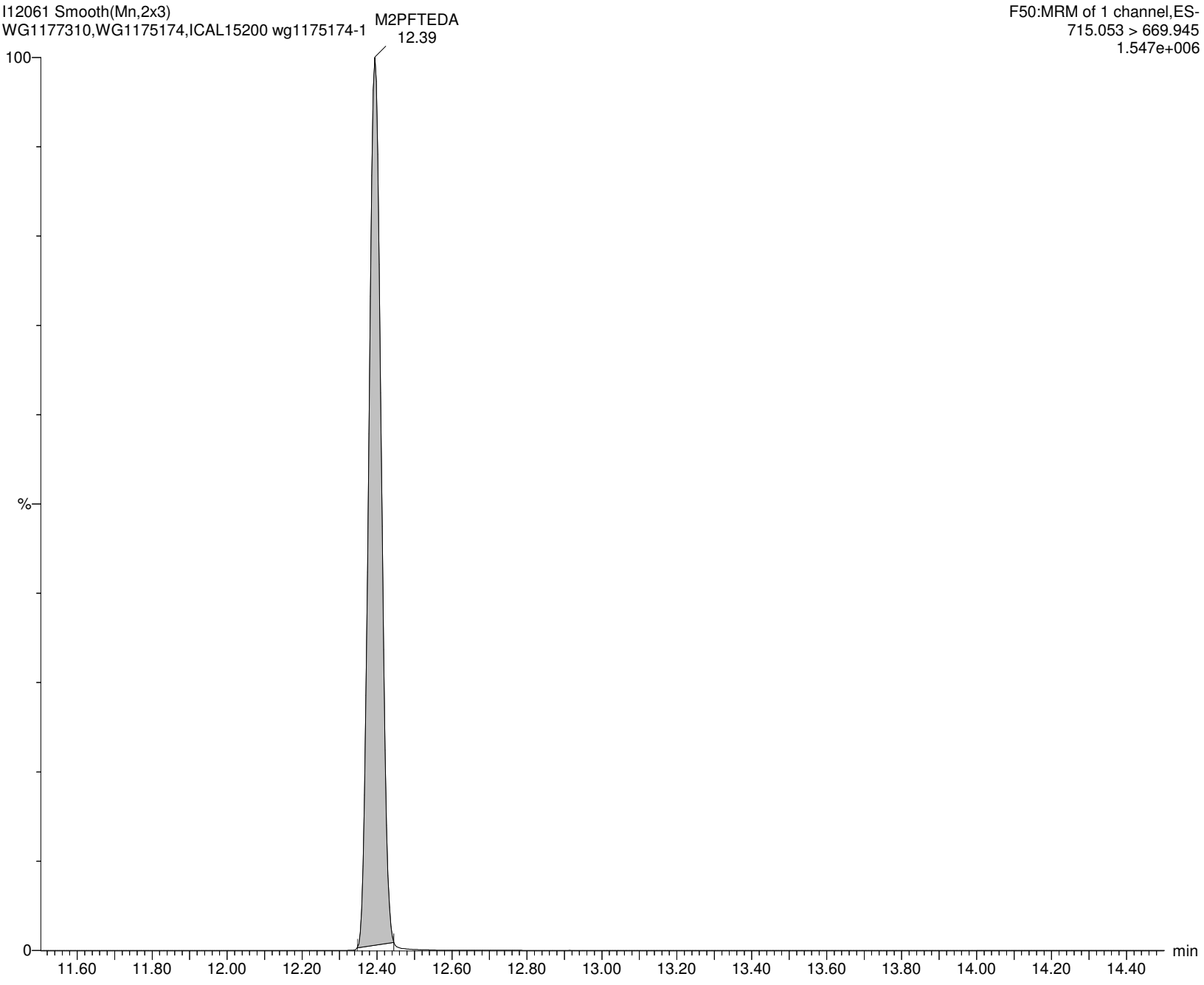

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:07 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: wg1175174-2
Name: I12062
Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	59546		10.126		na	101.3
2	M3PFBA	INT STD	2.16	215.926 > 172.122	57541		6.216		na	62.2
3	MPFBA	INT STD	2.16	216.926 > 172.137	67276		12.309		na	123.1
4	PFPeA	2706-90-3	5.12	262.926 > 219.002	76383		10.238		na	102.4
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	79161		11.223		na	112.2
6	PFBS	375-73-5	5.80	298.989 > 80.295	14623		11.646		na	131.6
7	M3PFBS	INT STD	5.80	301.989 > 80.254	14163		10.174		na	101.7
8	4:2FTS	757124-72-4	6.98	326.926 > 306.957	7644		9.409	1.98	YES	100.6
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8220		9.519		na	95.2
10	PFHxA	307-24-4	7.06	312.989 > 269.028	91309		10.609	19.38	NO	106.1
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	88688		10.744		na	107.4
12	PFPeS	2706-91-4	7.38	348.926 > 80.251	15535		8.628	2.06	NO	91.8
13	PFHpA	375-85-9	8.34	362.926 > 319.014	107021		9.549	5.26	NO	95.5
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	113847		11.730		na	117.3
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	2051		1.211	2.31	YES	71.2
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	12404		8.453	1.49	NO	114.2
17	PFHxS	355-46-4		398.926 > 80.295	14455		9.664		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	10407		13.460		na	134.6
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	102871		9.557	9.44	NO	95.6
21	M2PFOA	INT STD	9.28	415.032 > 369.968	114576		6.068		na	60.7
22	PFOA	335-67-1		412.989 > 368.9	102871		9.557		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	110325		11.940		na	119.4
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	7831		10.152		na	106.9
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	7903		11.026		na	110.3
26	PFHpS	375-92-8	9.37	448.926 > 80.257	7611		10.203	0.87	YES	107.4
27	PFNA	375-95-1	10.03	462.989 > 418.931	87749		10.216	4.60	NO	102.2
28	M9PFNA	INT STD	10.03	472.053 > 426.947	102843		11.159		na	111.6
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	3720		2.107	4.45	YES	105.3
30	L-PFOS	1763-23-1	10.08	498.989 > 80.294	8007		6.363	1.79	YES	87.2
31	PFOS	1763-23-1		498.989 > 80.294	11727		8.470		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	11167		6.894		na	68.9
33	M8PFOS	INT STD	10.08	507.053 > 80.294	12048		11.569		na	115.7
34	PFDA	335-76-2	10.65	513.053 > 468.906	83765		10.360	6.05	NO	103.6
35	M2PFDA	INT STD	10.65	515.053 > 469.934	87853		5.910		na	59.1
36	M6PFDA	INT STD	10.65	519.053 > 473.931	91152		11.491		na	114.9
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	5303		10.009		na	104.3
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	4403		10.460		na	104.6
39	PFNS	68259-12-1	10.68	548.989 > 80.249	9764		11.420	1.28	NO	119.0

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:07 Eastern Standard Time

ID: wg1175174-2
Name: I12062
Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	8946		10.461		na	104.6
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	9013		10.016		na	100.2
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	78274		9.550	7.87	NO	95.5
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	82494		12.425		na	124.2
44	PFDS	335-77-3	11.20	598.926 > 80.314	8022		11.044	1.06	NO	114.4
45	FOSA	754-91-6	11.11	497.989 > 78.245	6124		9.520		na	95.2
46	M8FOSA	INT STD	11.11	506.053 > 78.286	6576		2.324		na	23.2
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	8564		10.382		na	103.8
48	NEtFOSAA	2991-50-6	11.34	583.989 > 418.927	7164		8.182	2.46	YES	81.8
49	PFDoA	307-55-1	11.67	612.989 > 568.967	74770		9.797	14.00	NO	98.0
50	MPFDOA	INT STD	11.67	614.989 > 569.92	81843		10.971		na	109.7
51	PFTrDA	72629-94-8	12.08	663.053 > 618.969	69513		10.831	12.06	NO	108.3
52	PFTA	376-06-7	12.40	713.053 > 668.976	52071		11.074	9.62	NO	110.7
53	M2PFTEDA	INT STD	12.40	715.053 > 669.945	56001		10.135		na	101.4

all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

Name: I12062
ID: wg1175174-2
Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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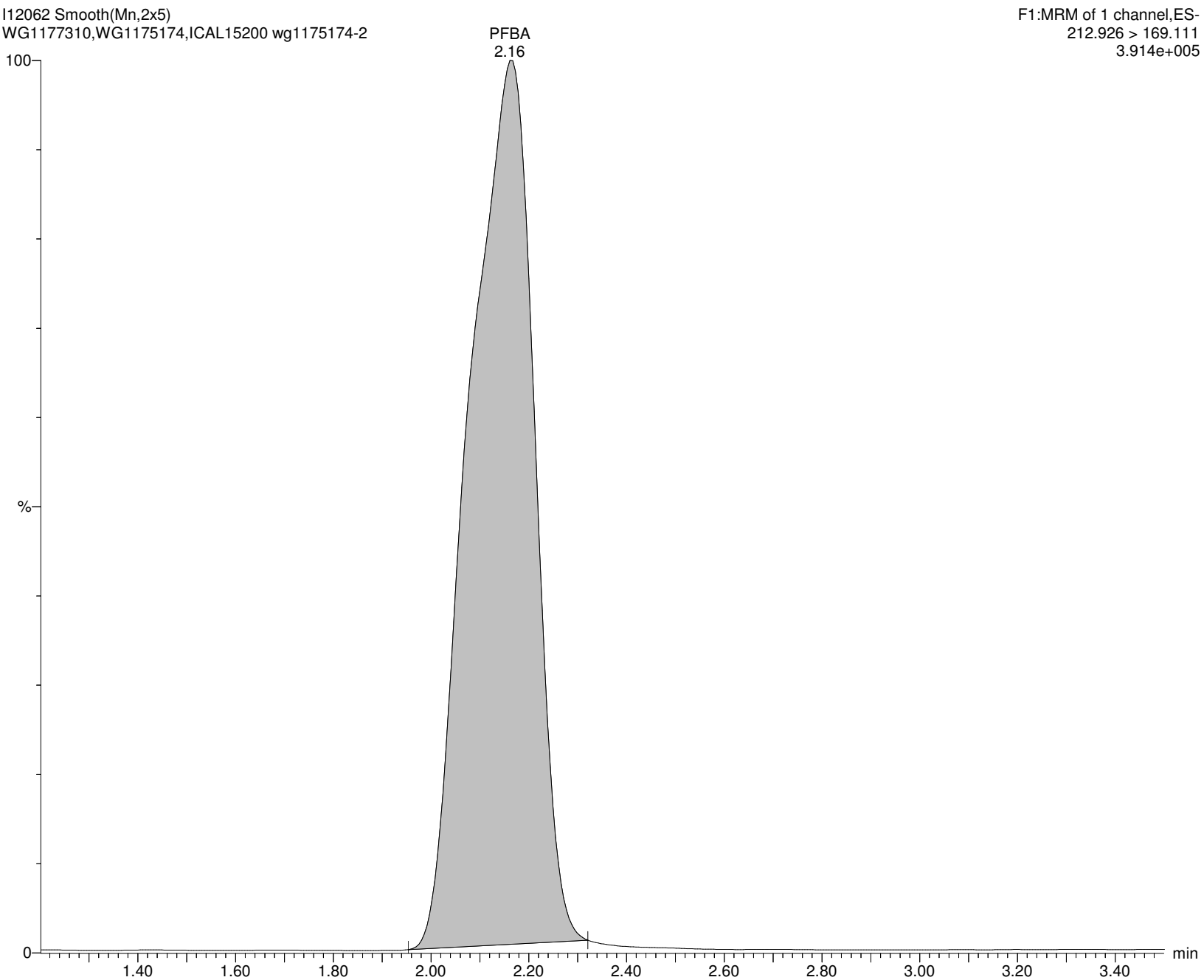

all concentration units in (ng/mL)

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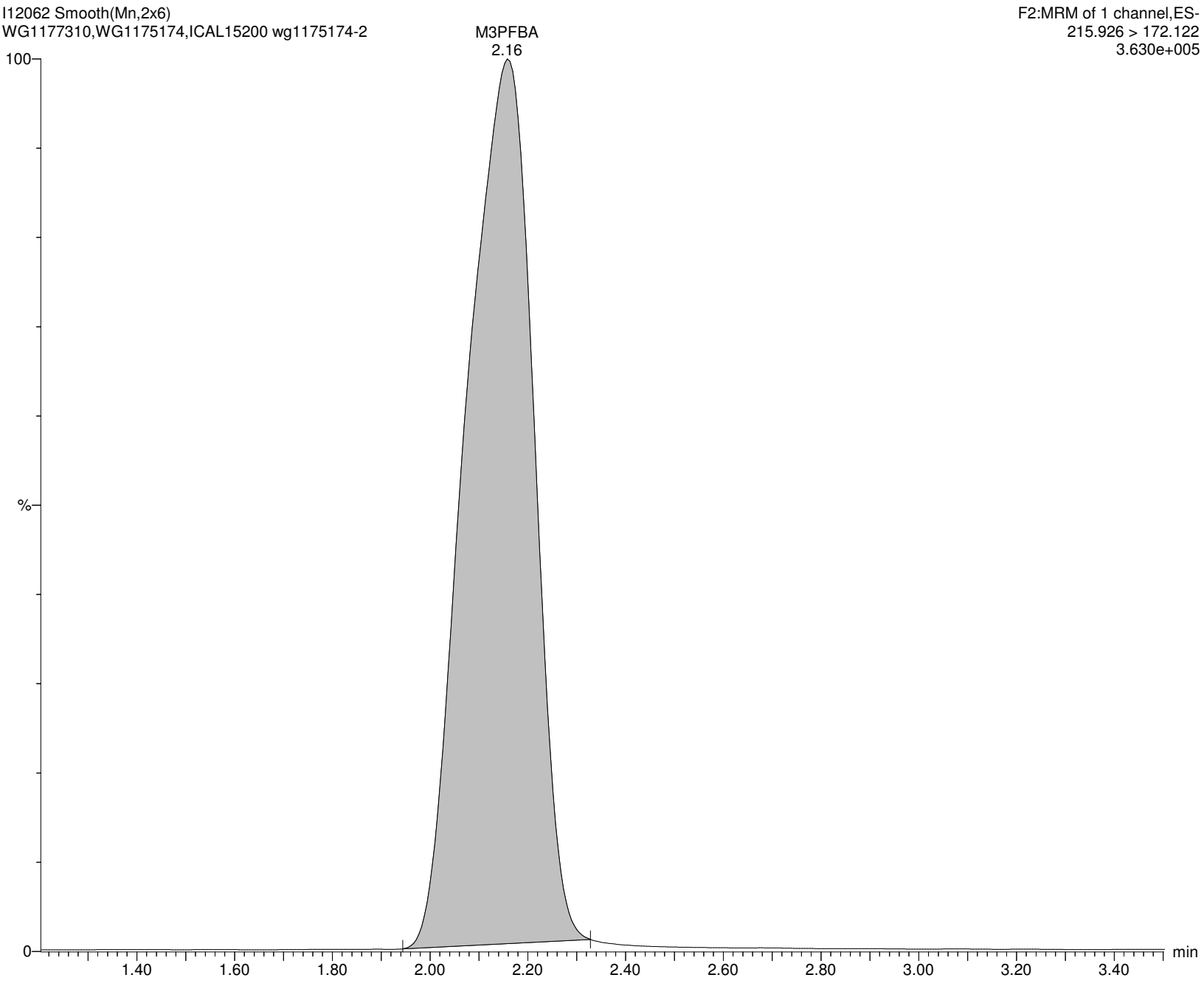

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 08-Nov-2018
Time: 13:45:26
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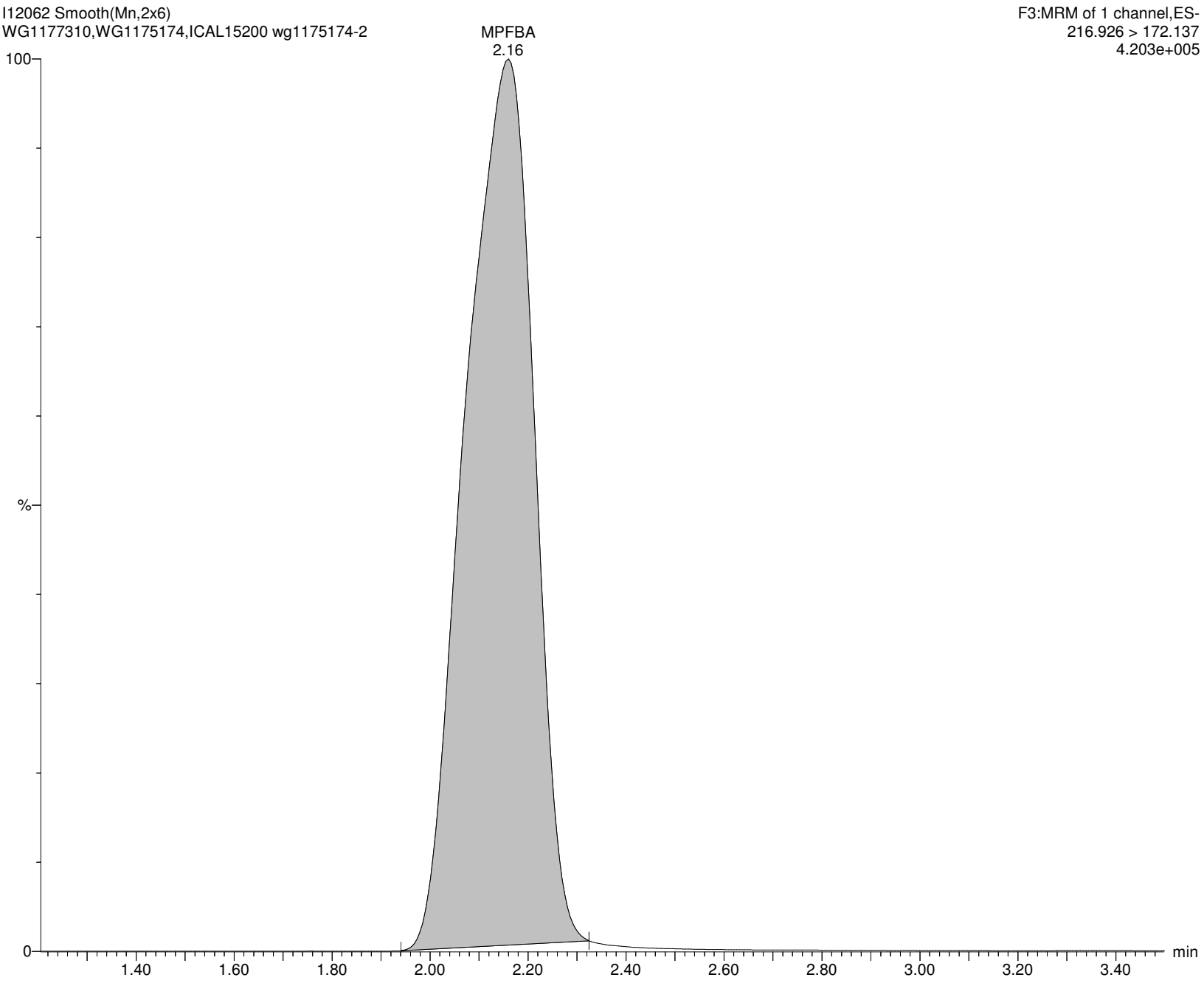

all concentration units in (ng/mL)

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ID: wg1175174-2
Date: 08-Nov-2018
Time: 13:45:26
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User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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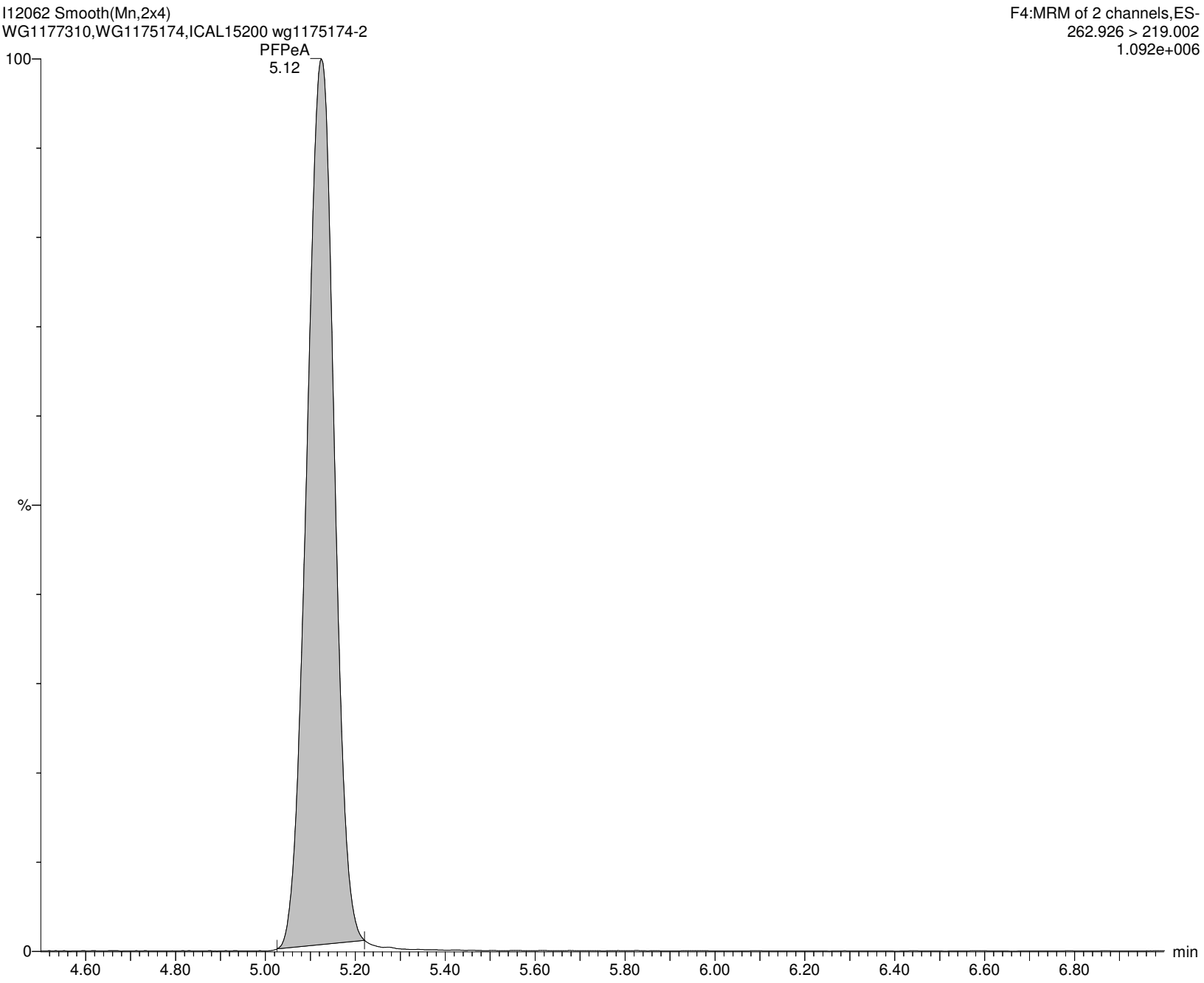

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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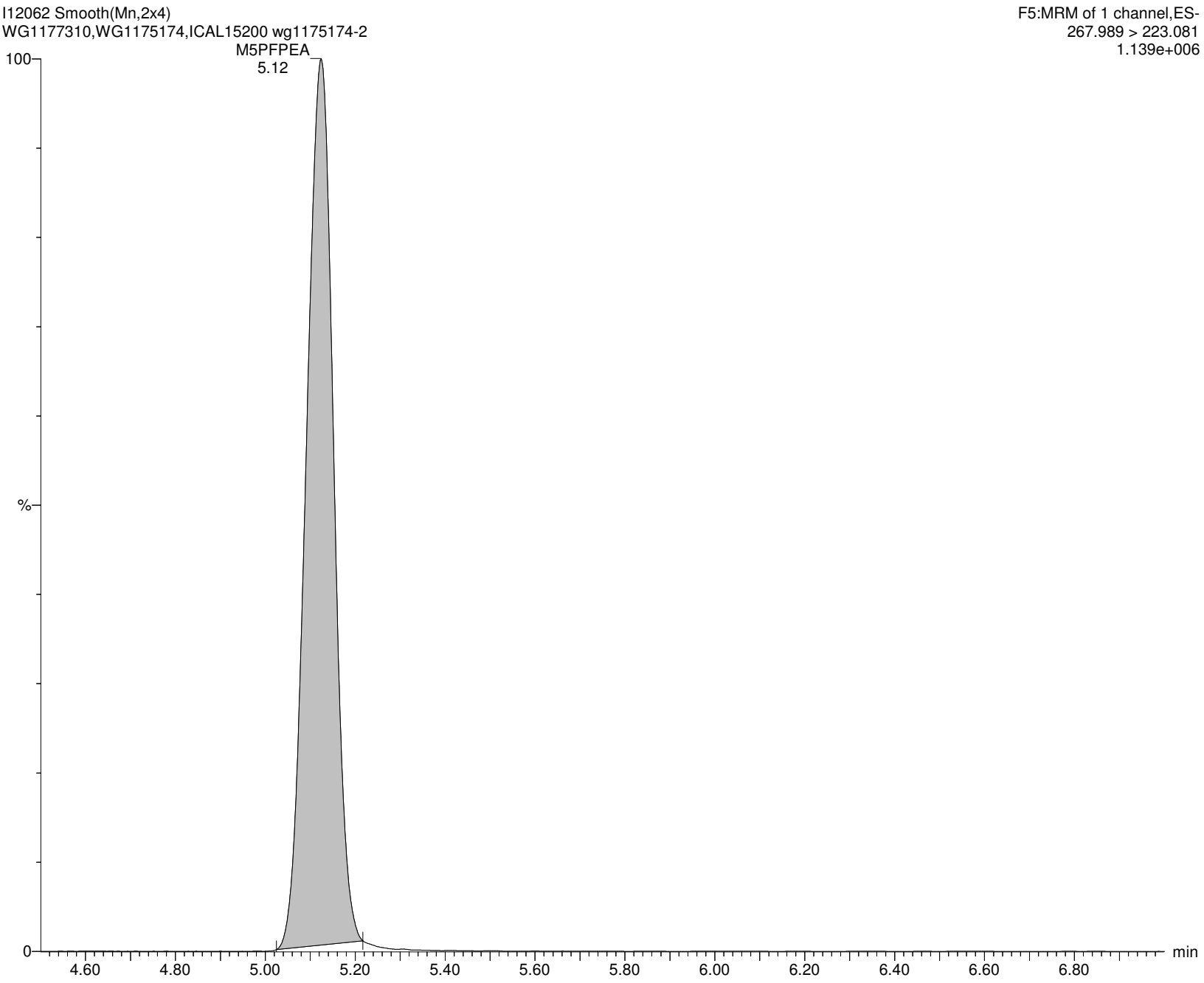

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I12062
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Date: 08-Nov-2018
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Instrument: XEVO-TQSmicro#QEA0276
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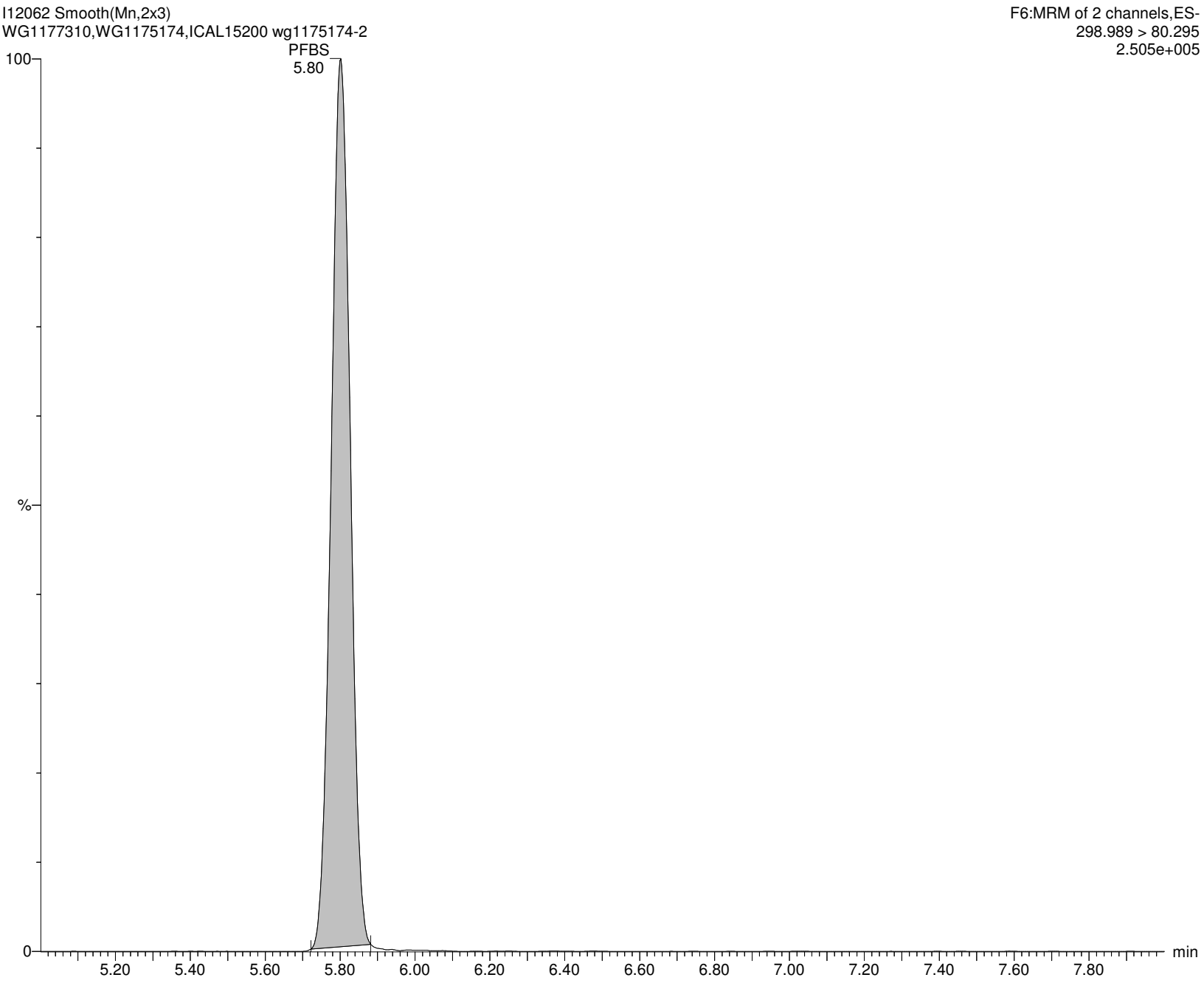
PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
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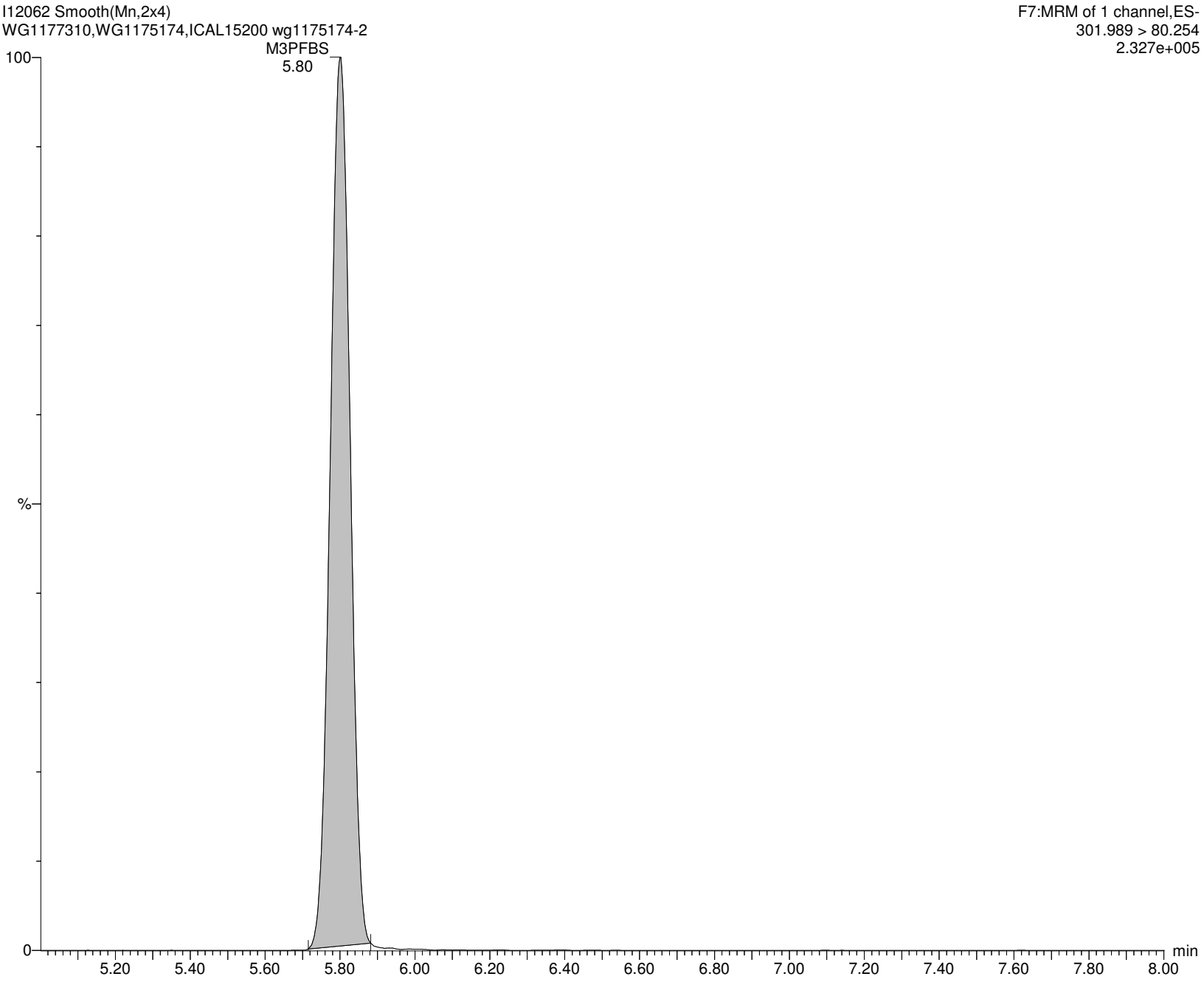
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Date: 08-Nov-2018
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User: LCMS01:AJ
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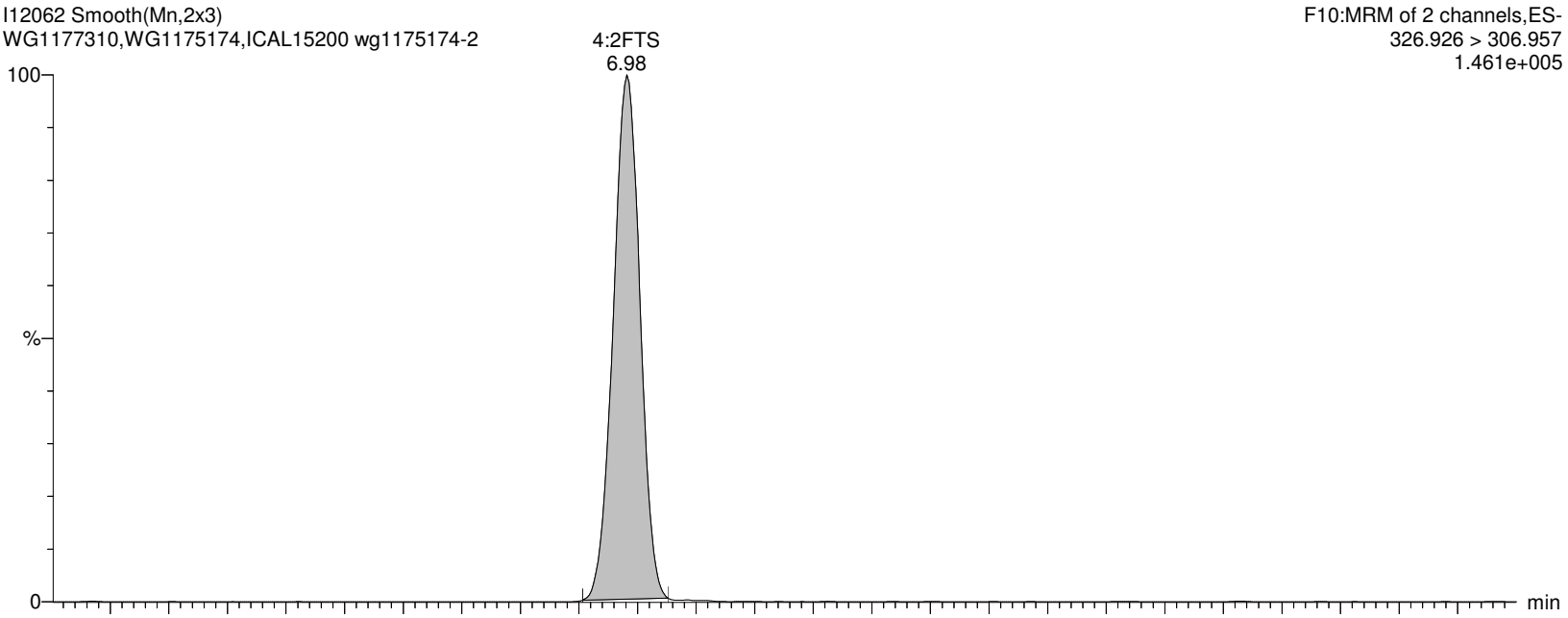
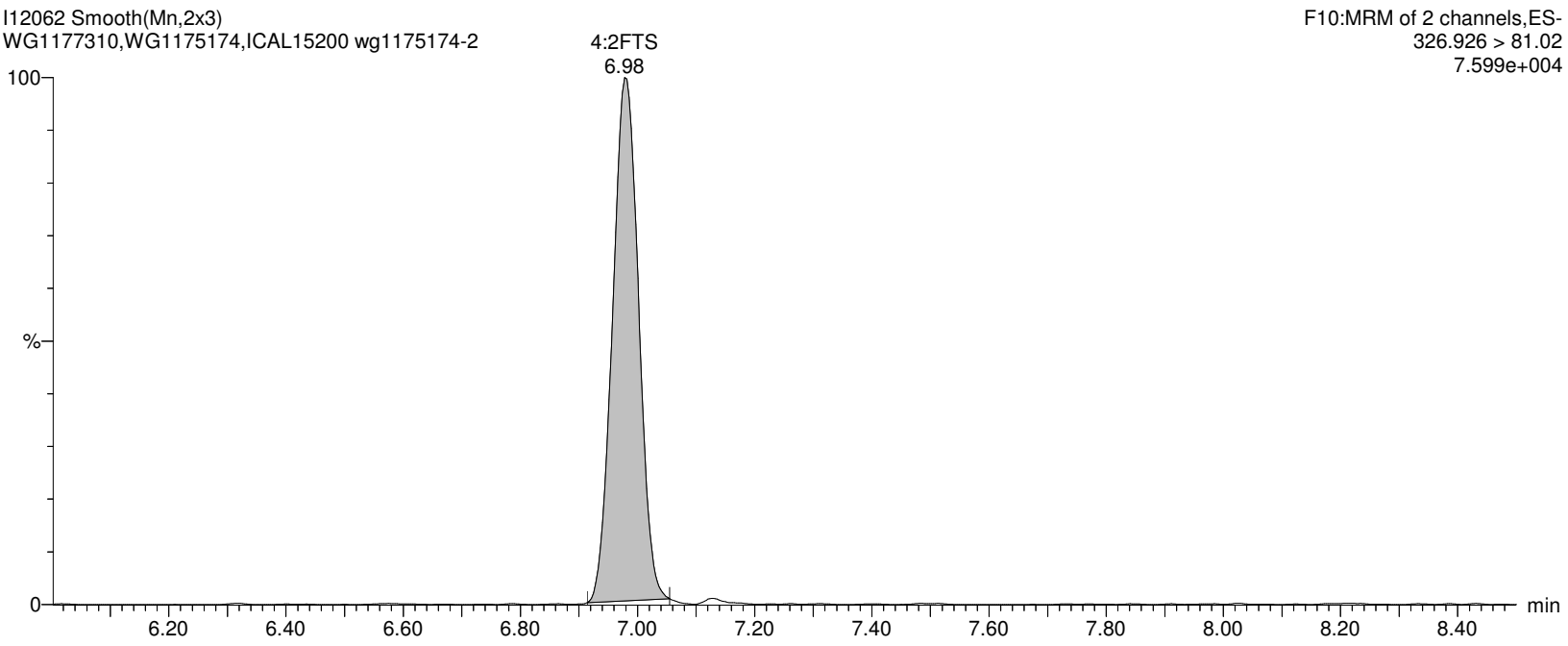
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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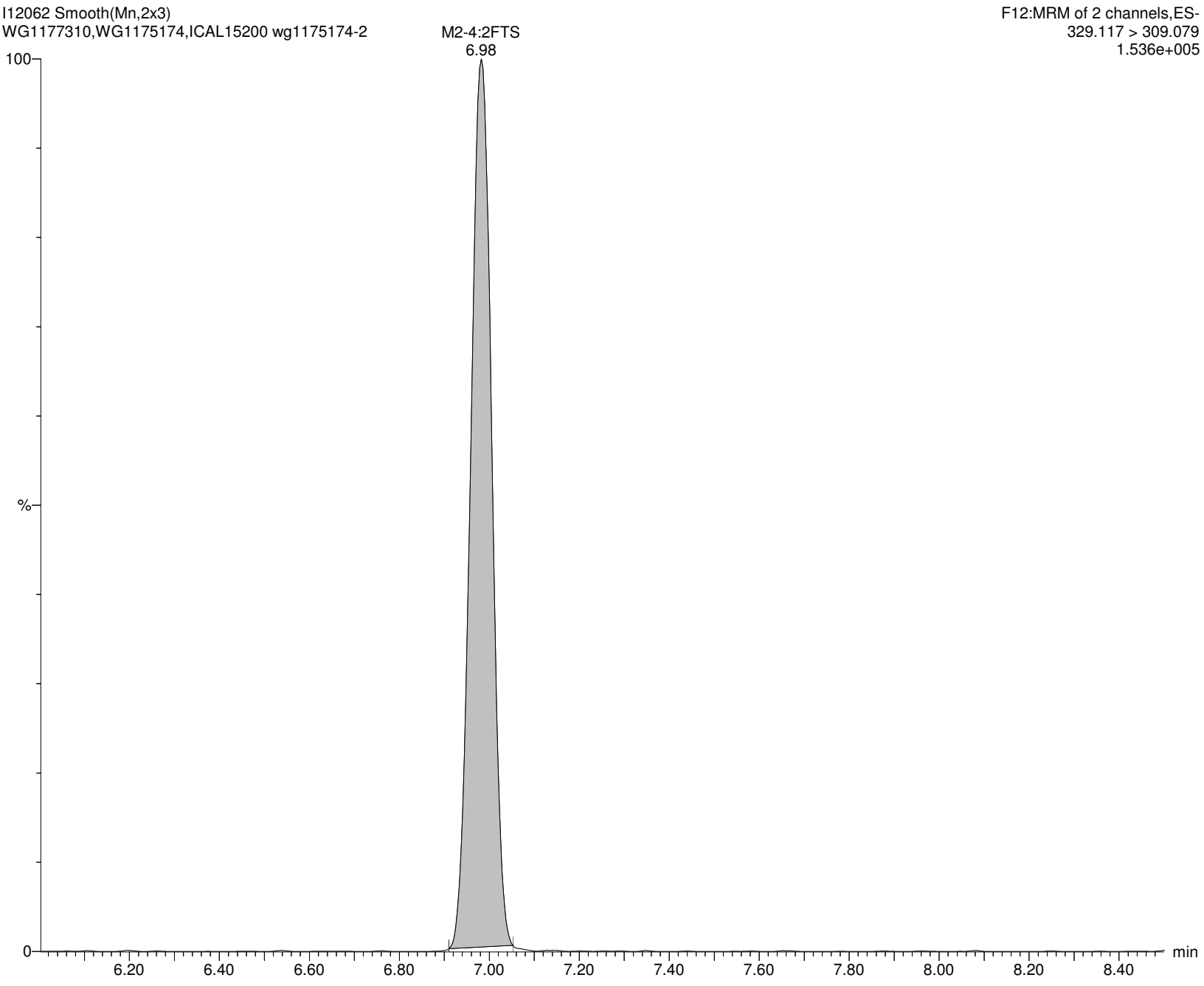
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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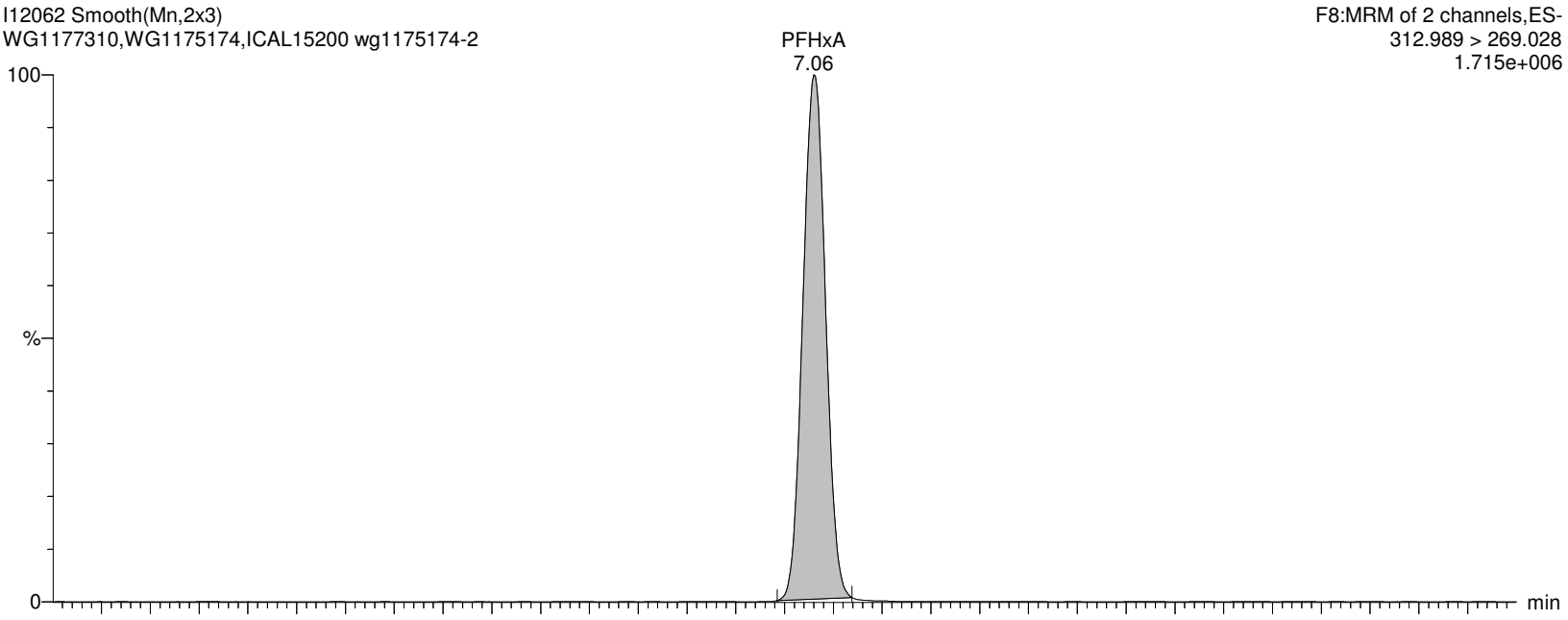

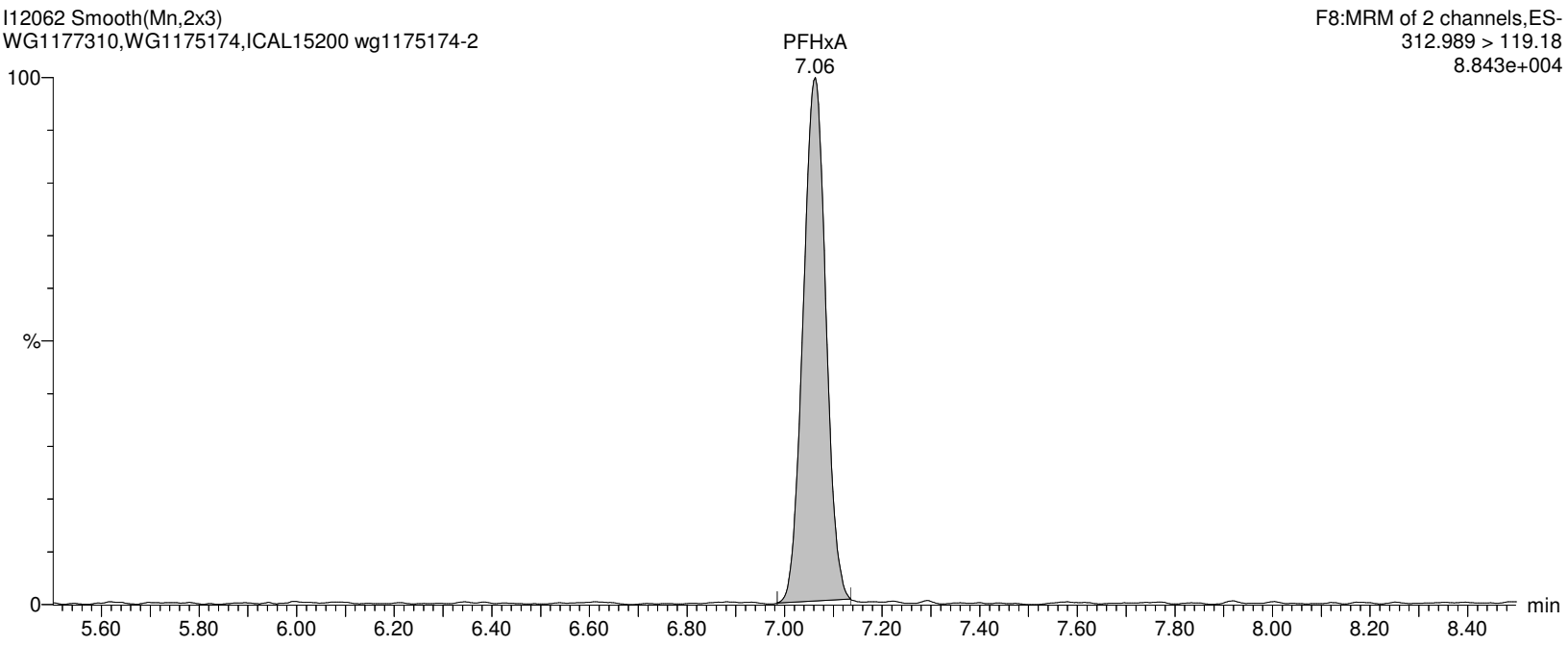

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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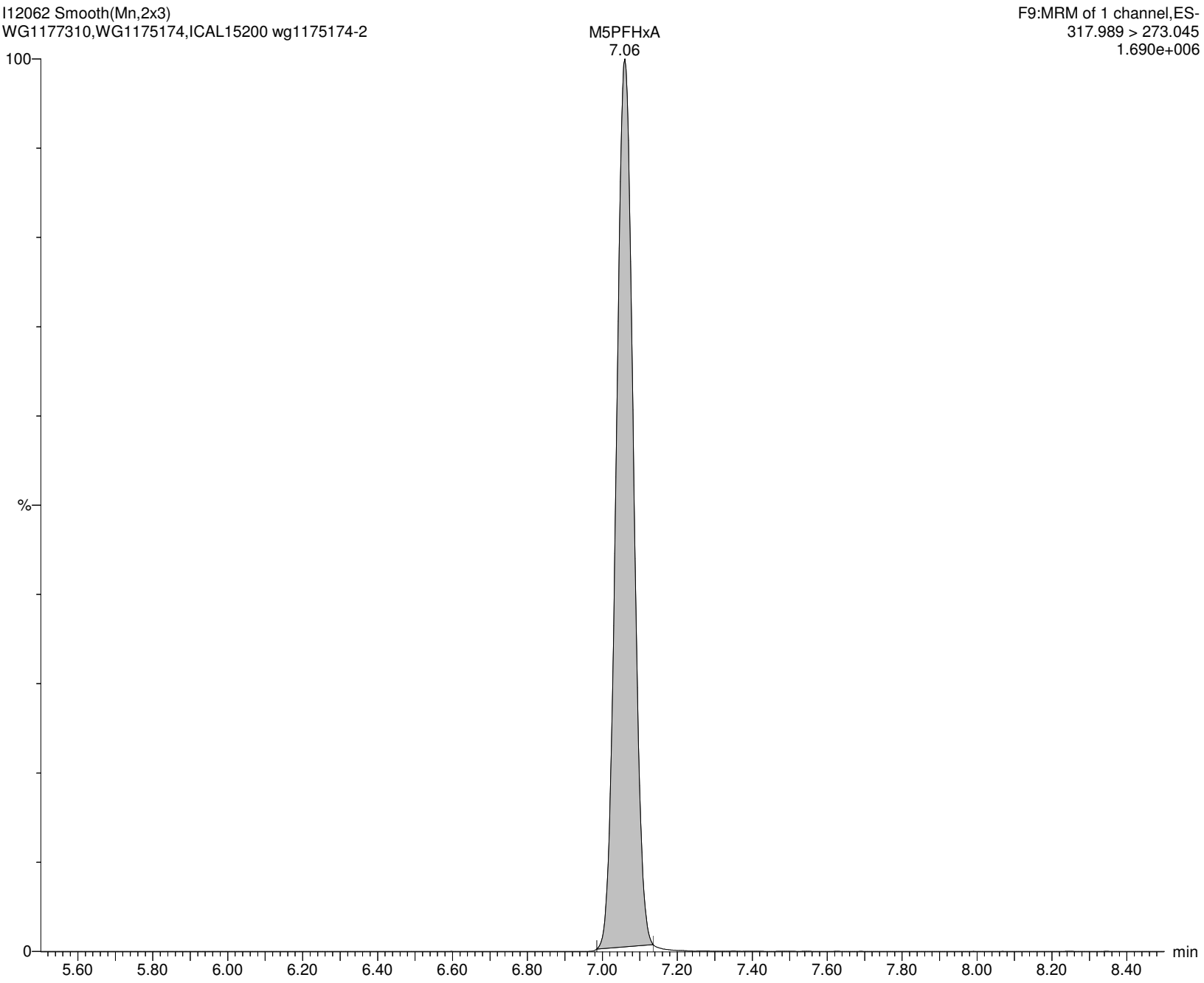

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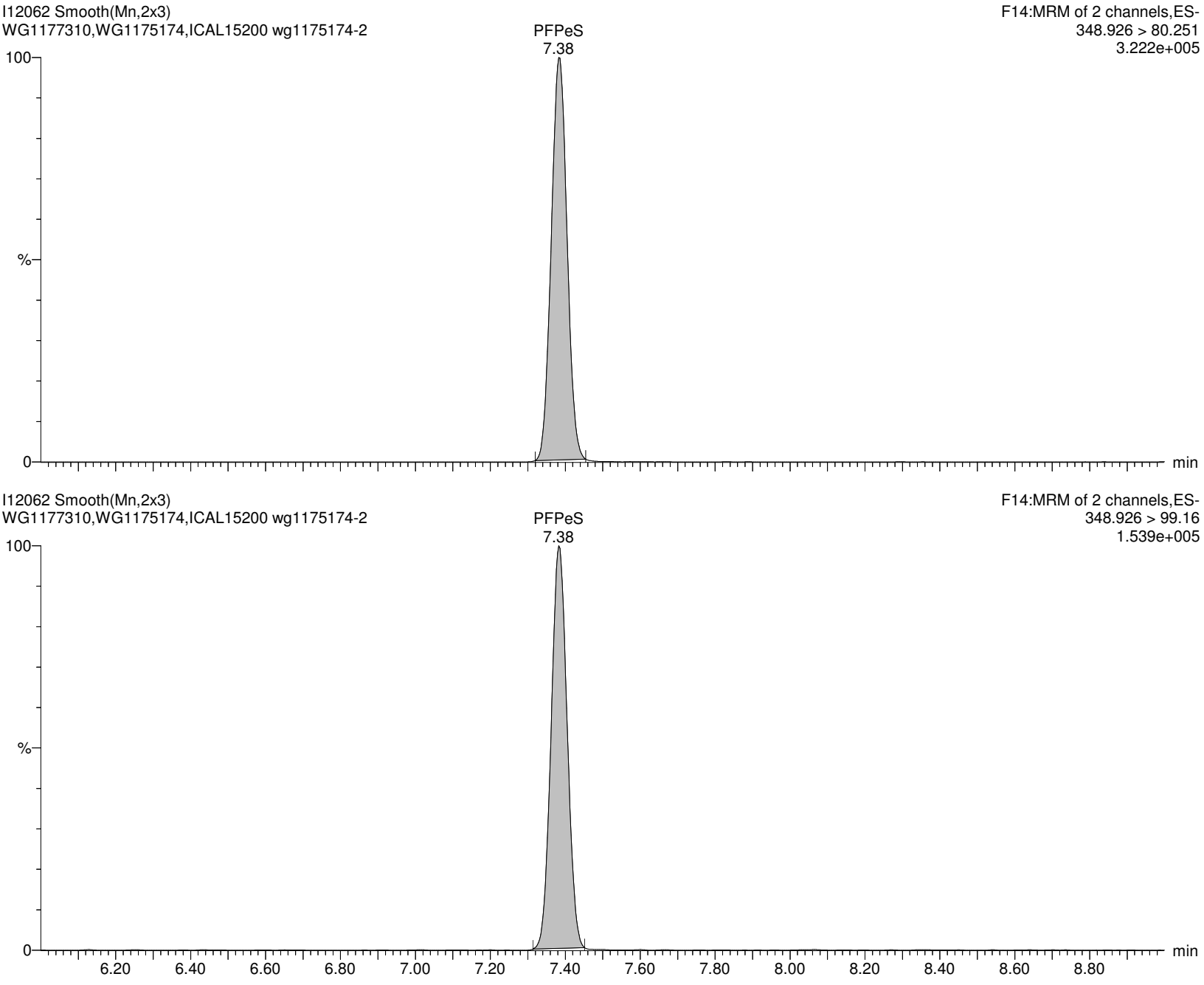

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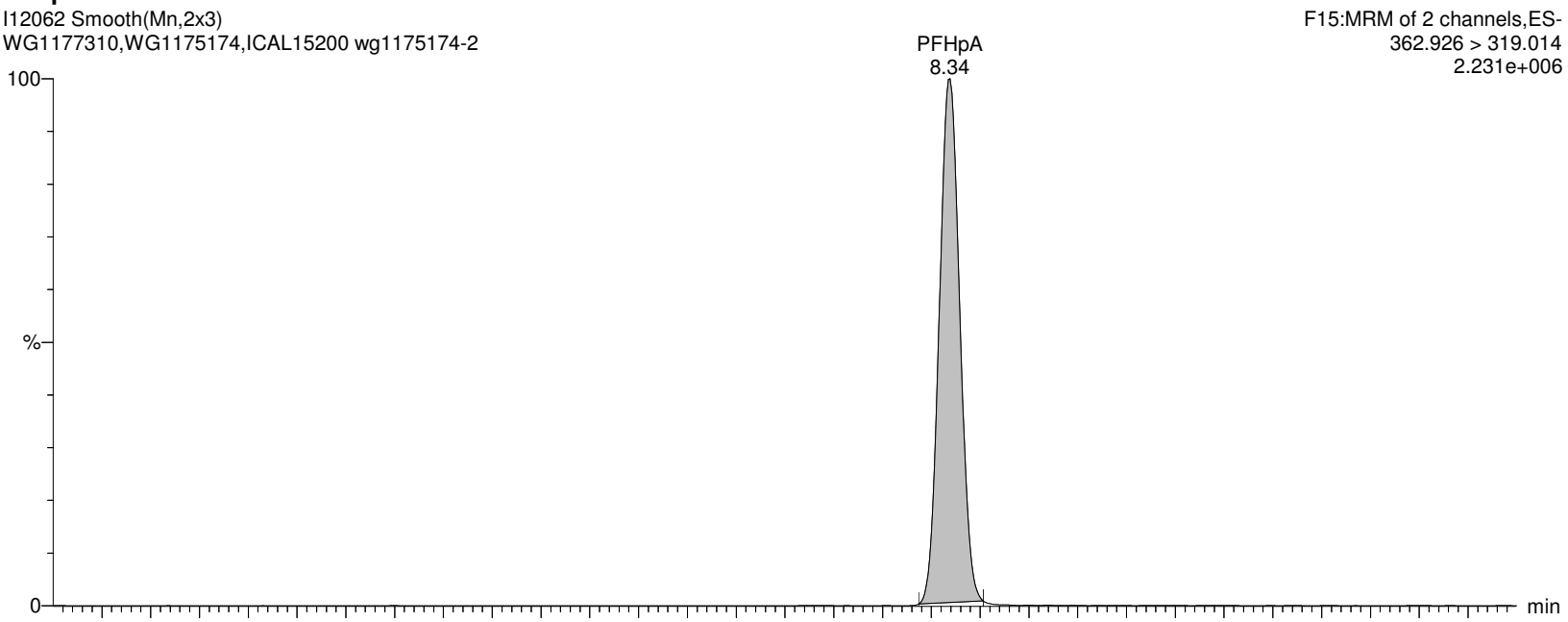

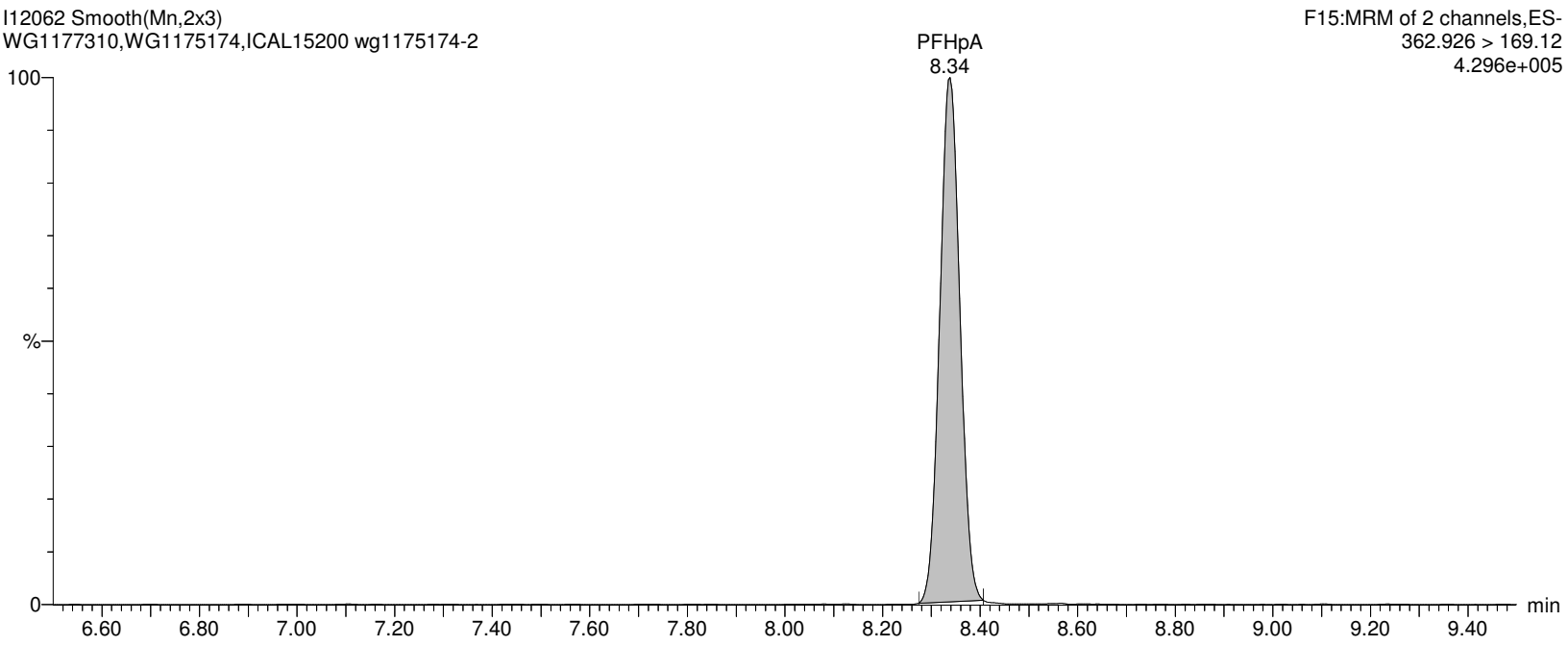

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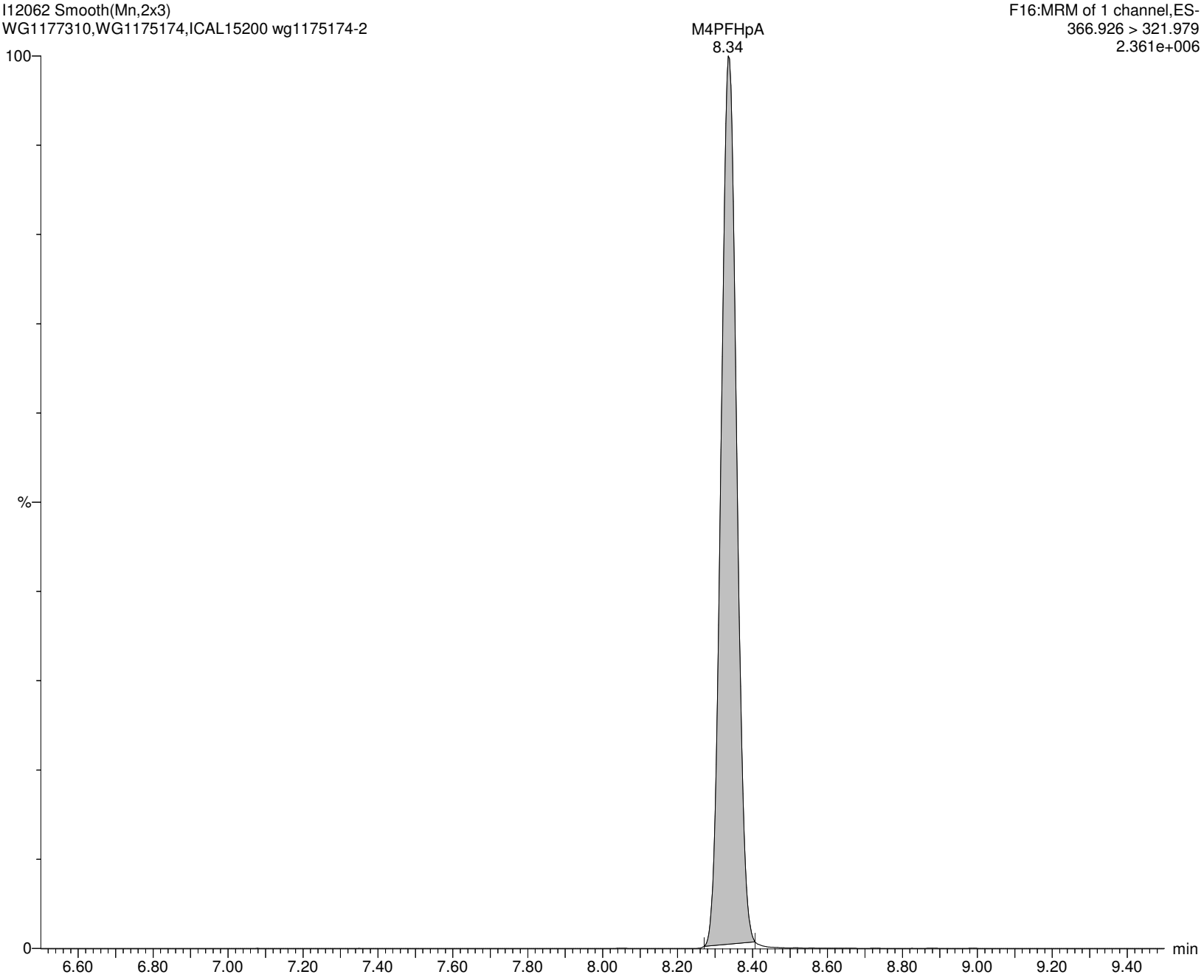

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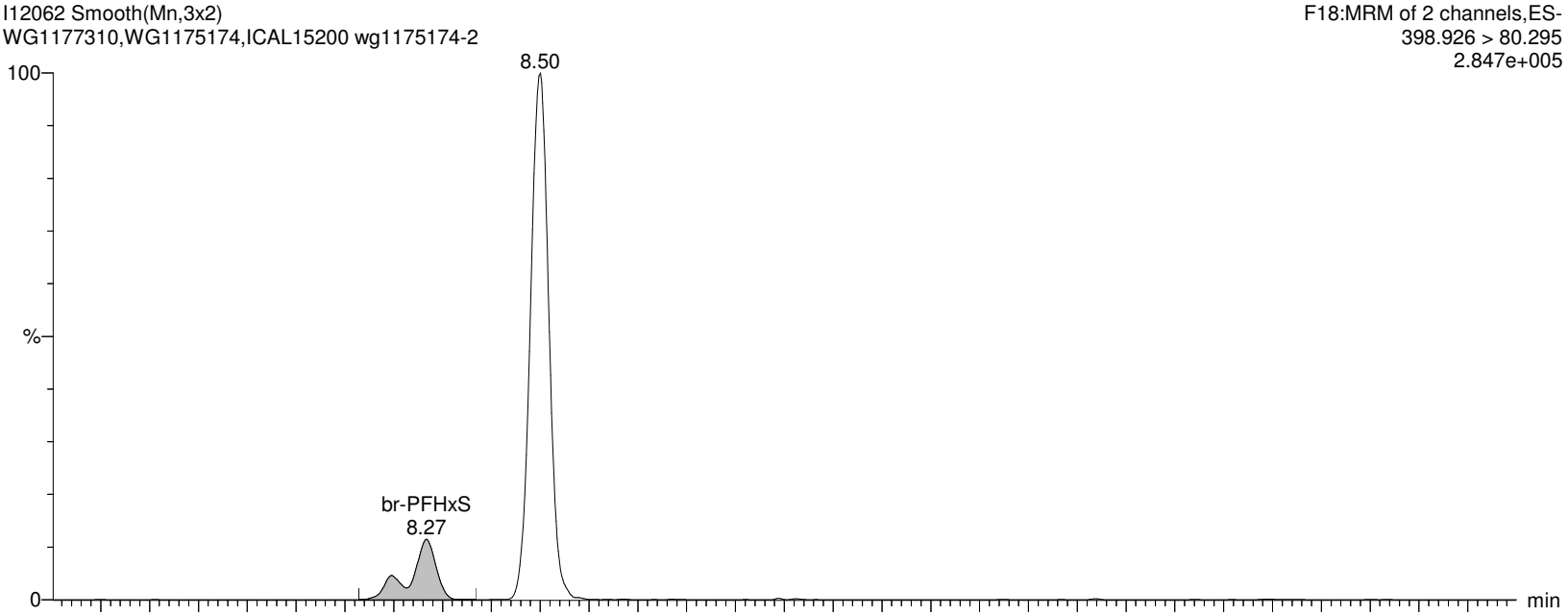

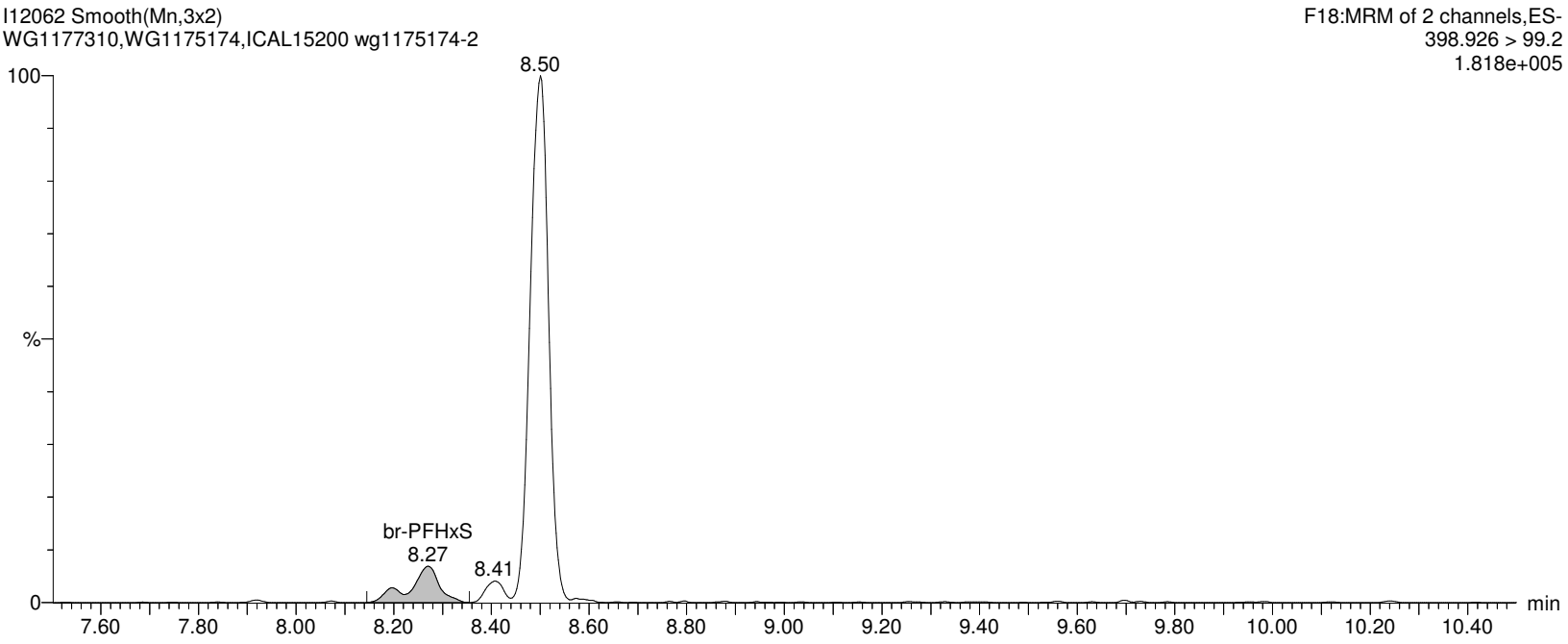

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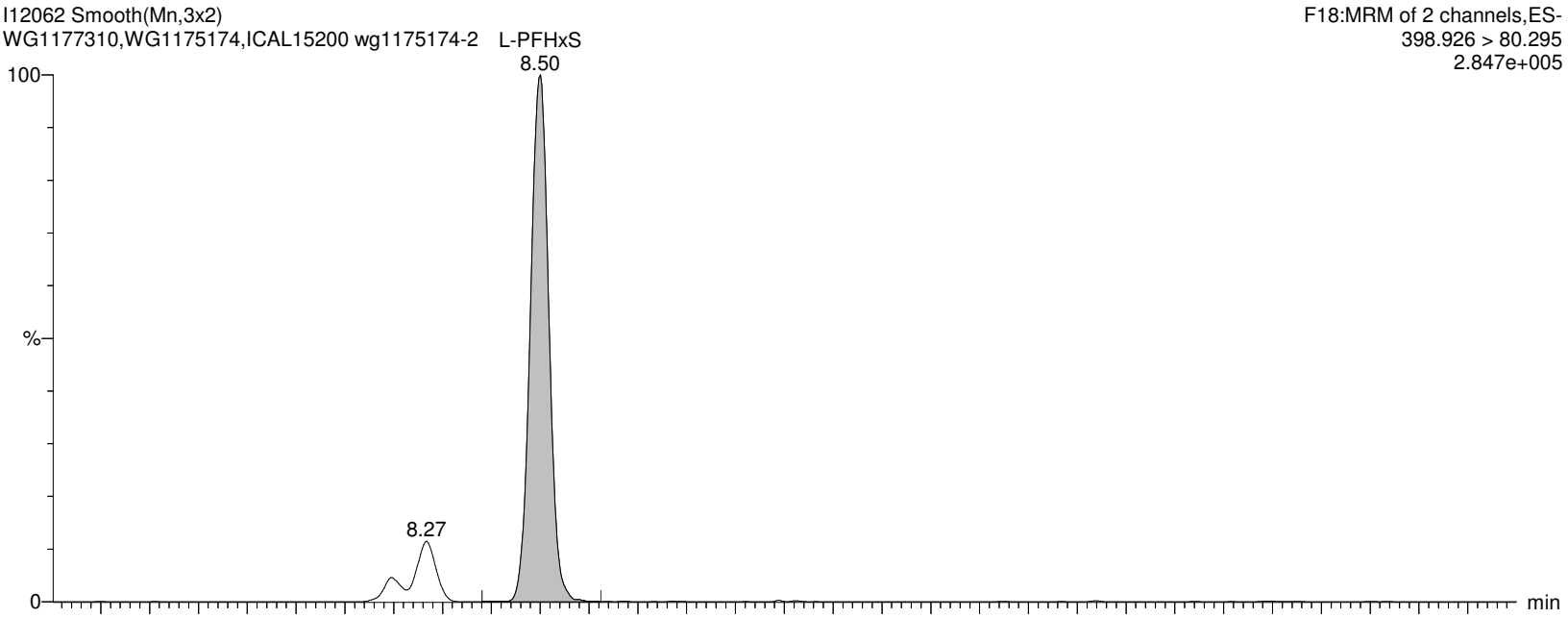

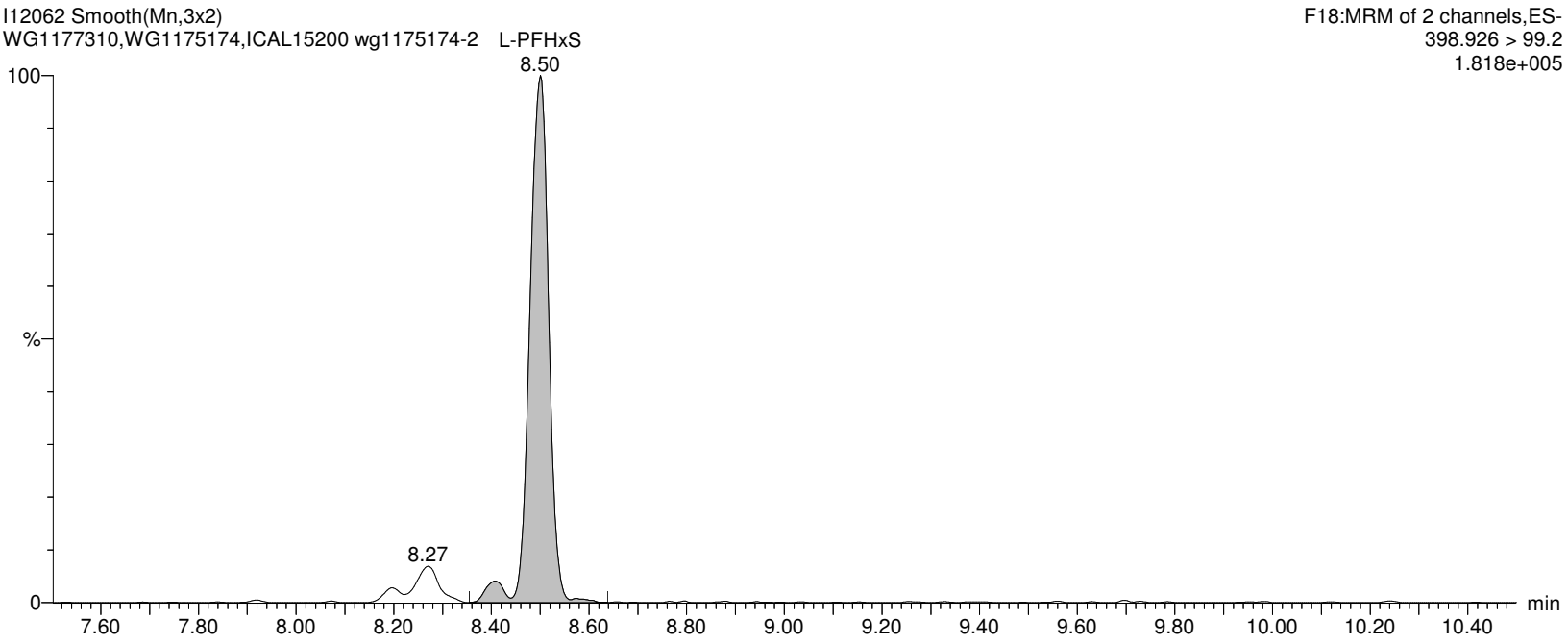

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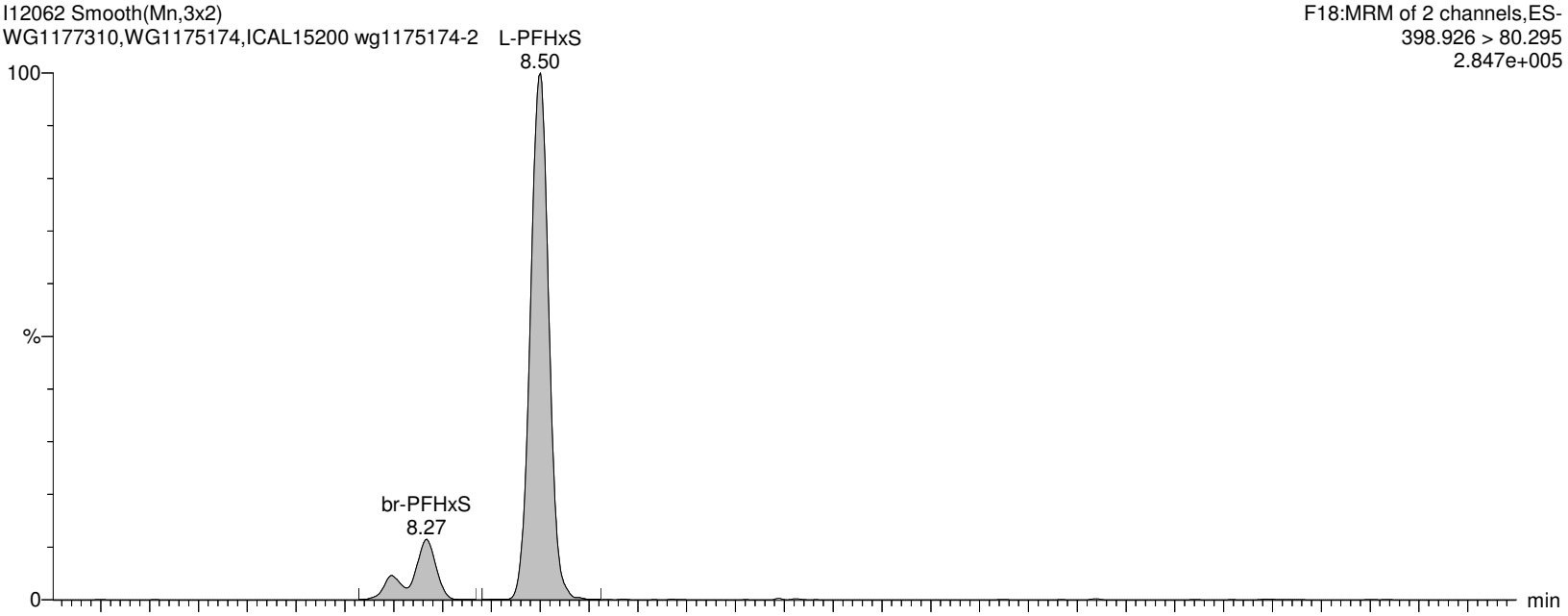

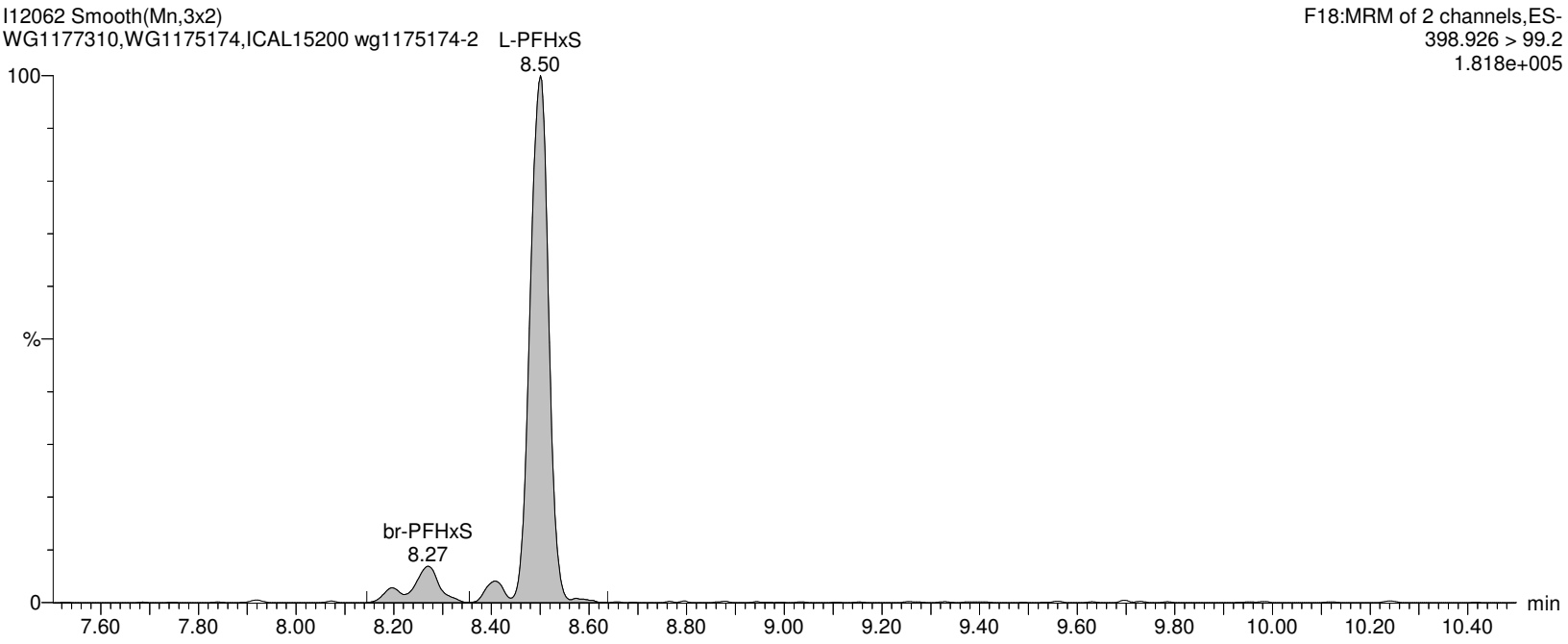

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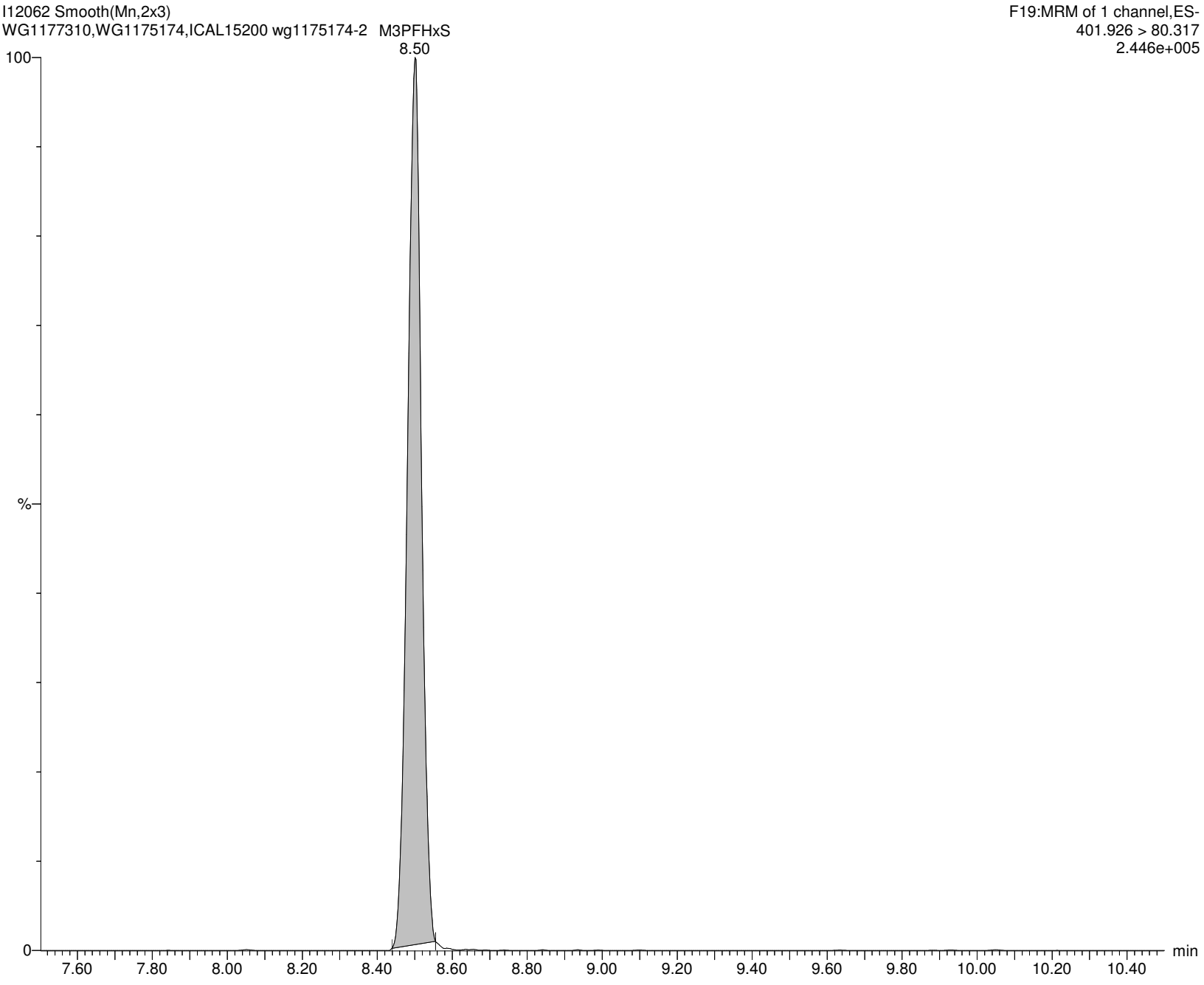

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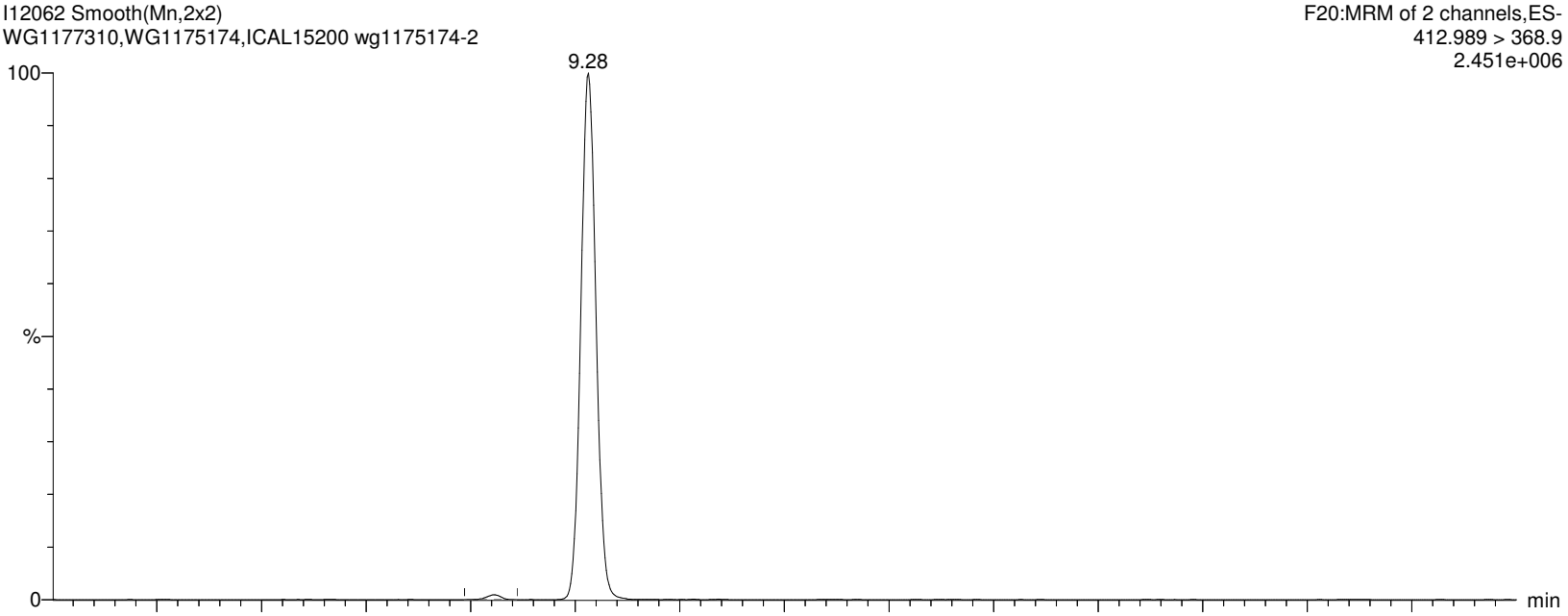

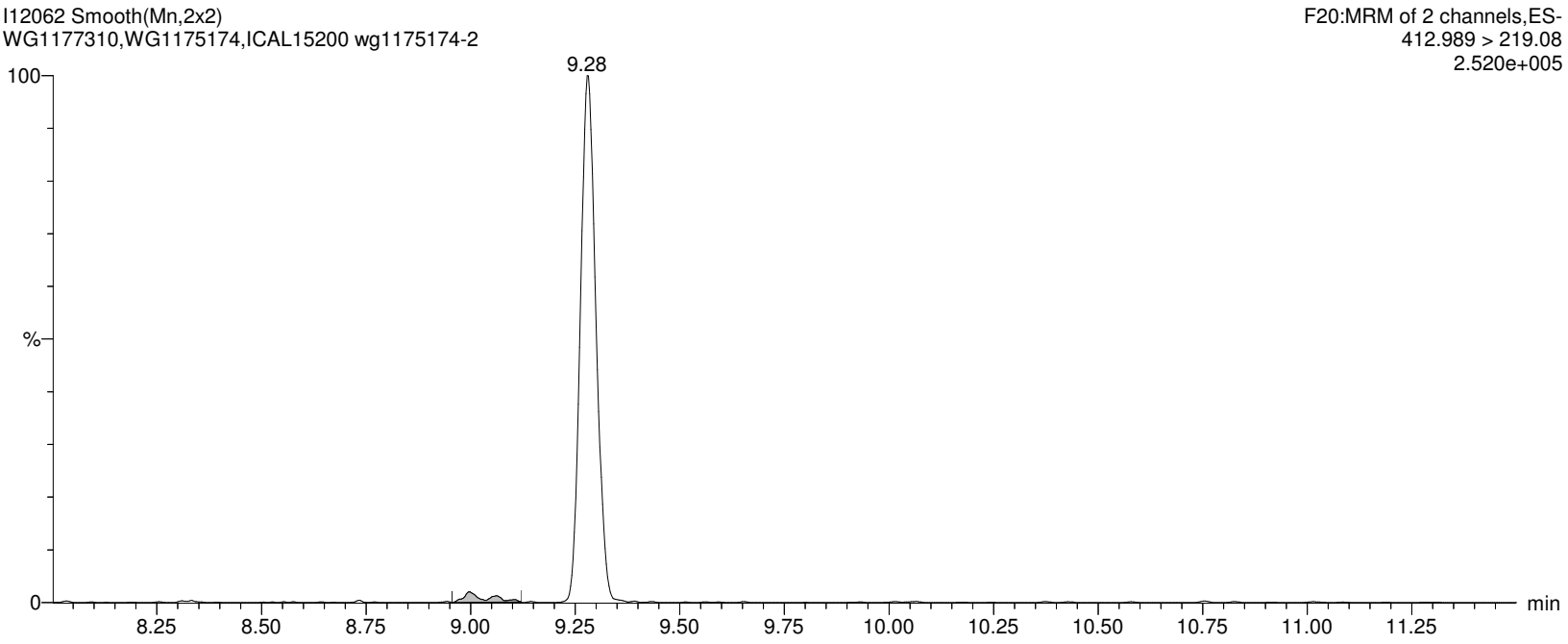

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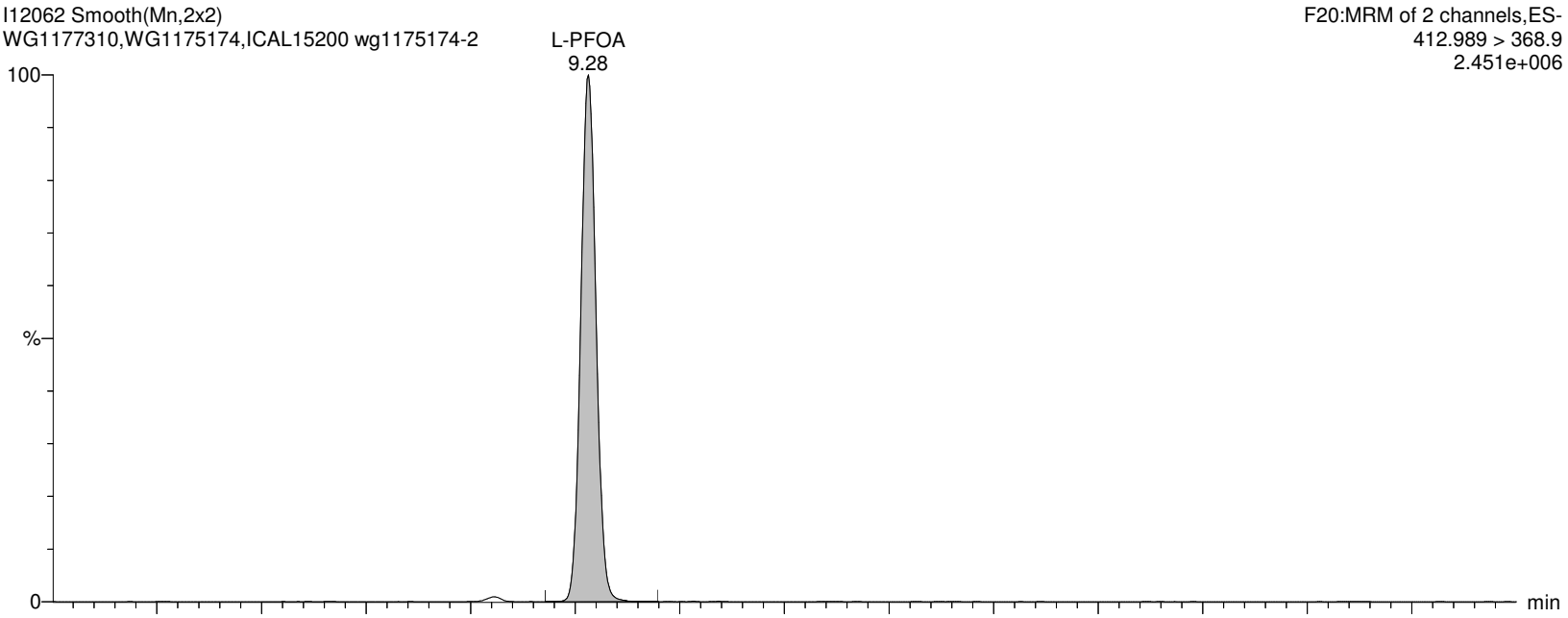

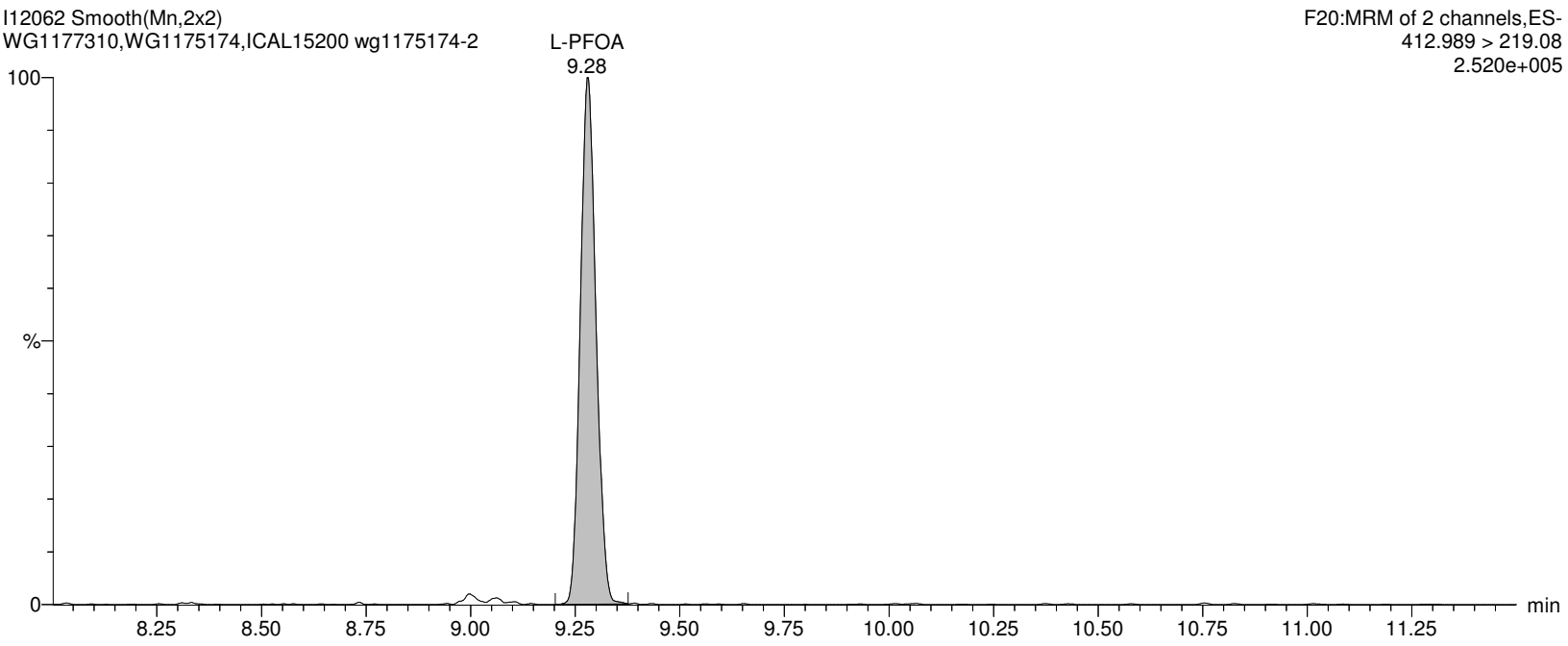

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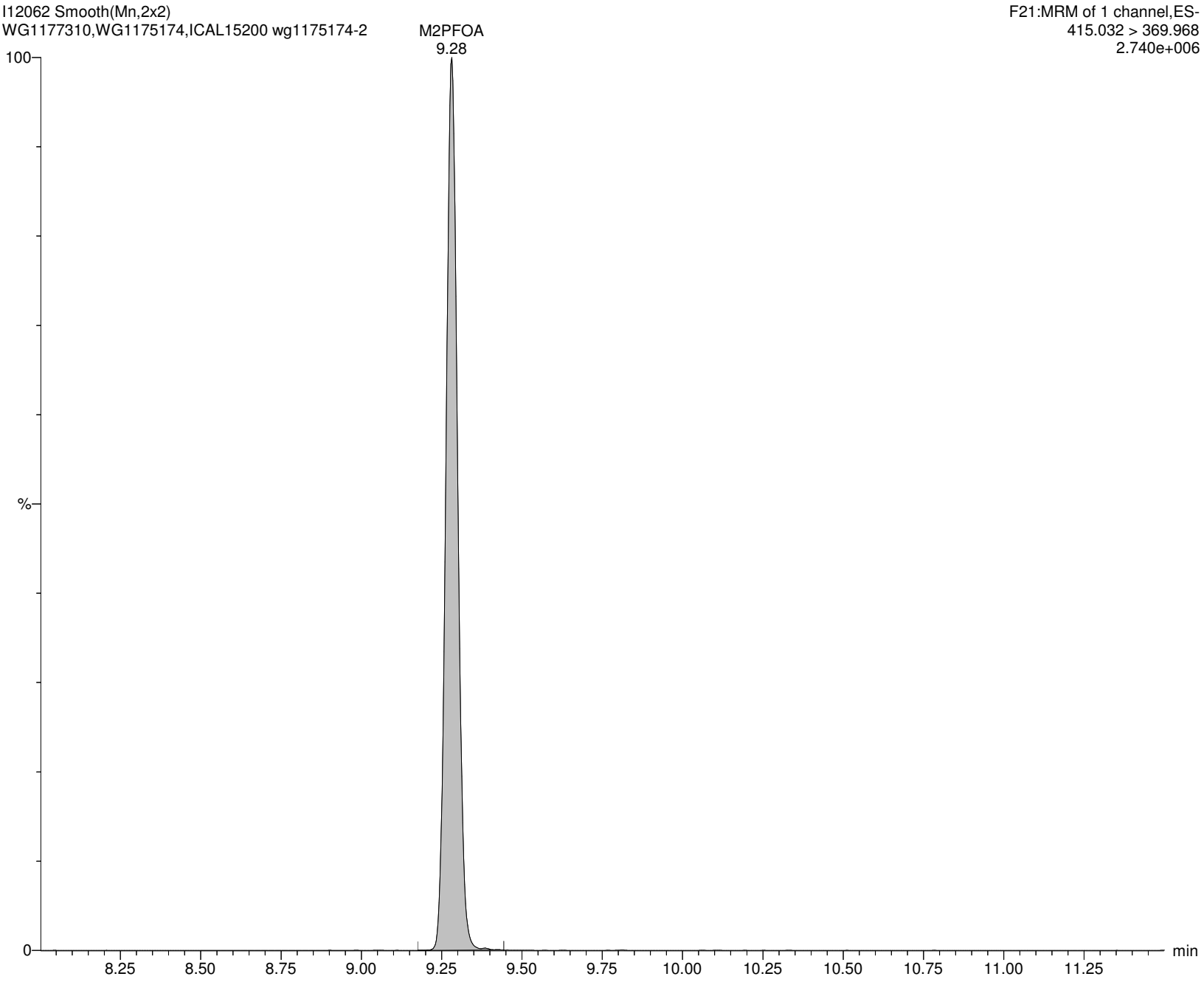

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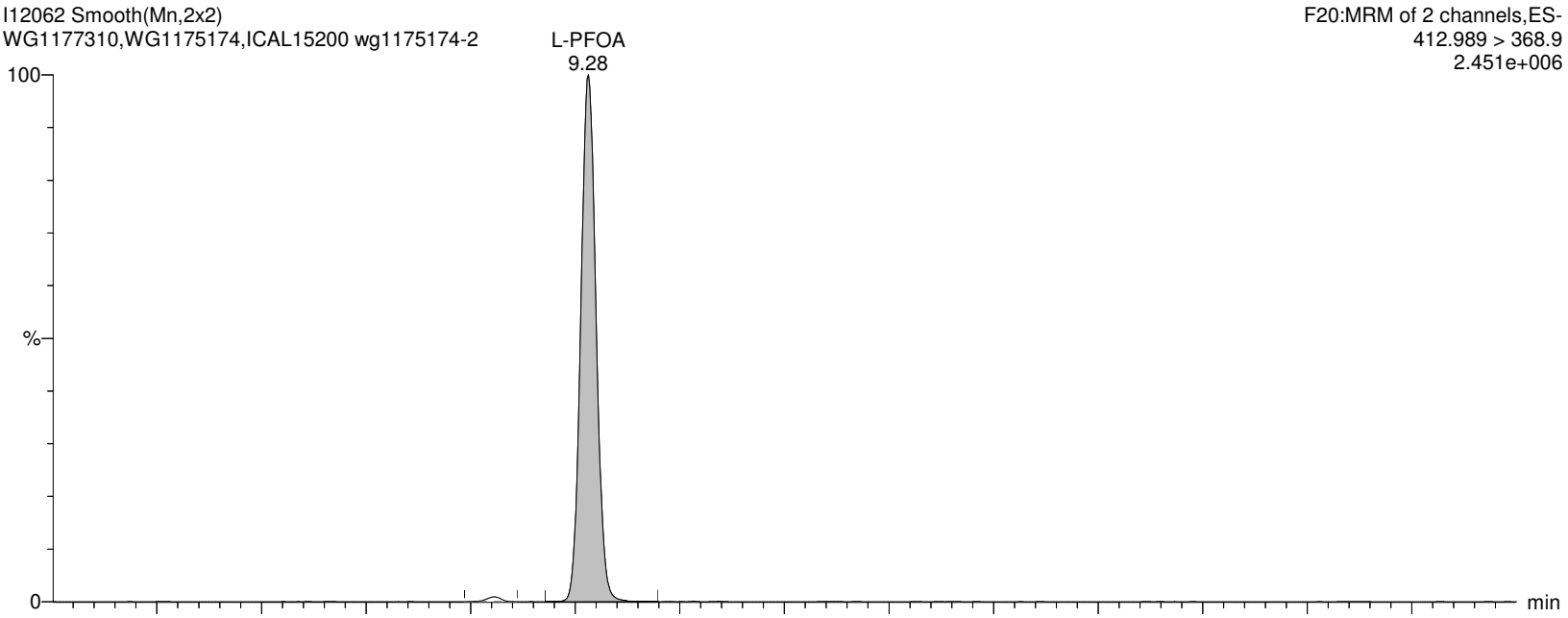

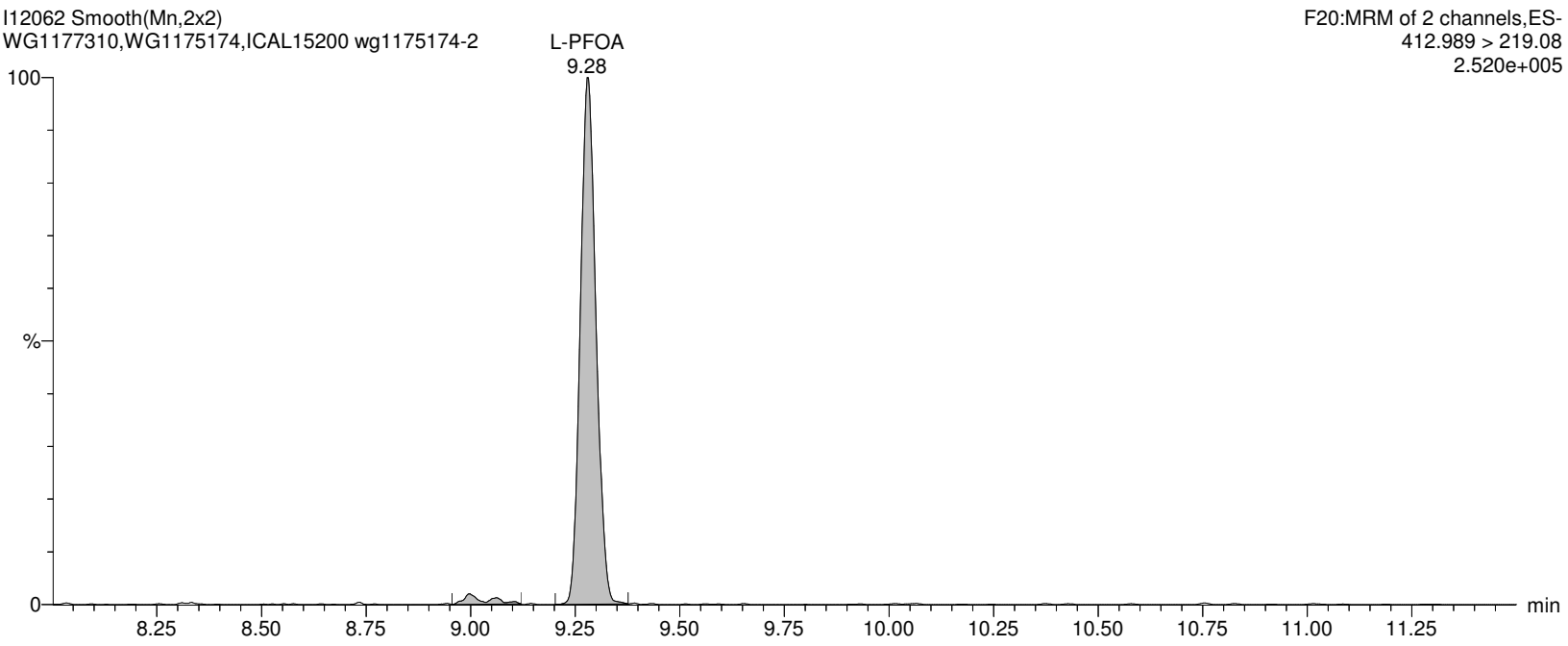

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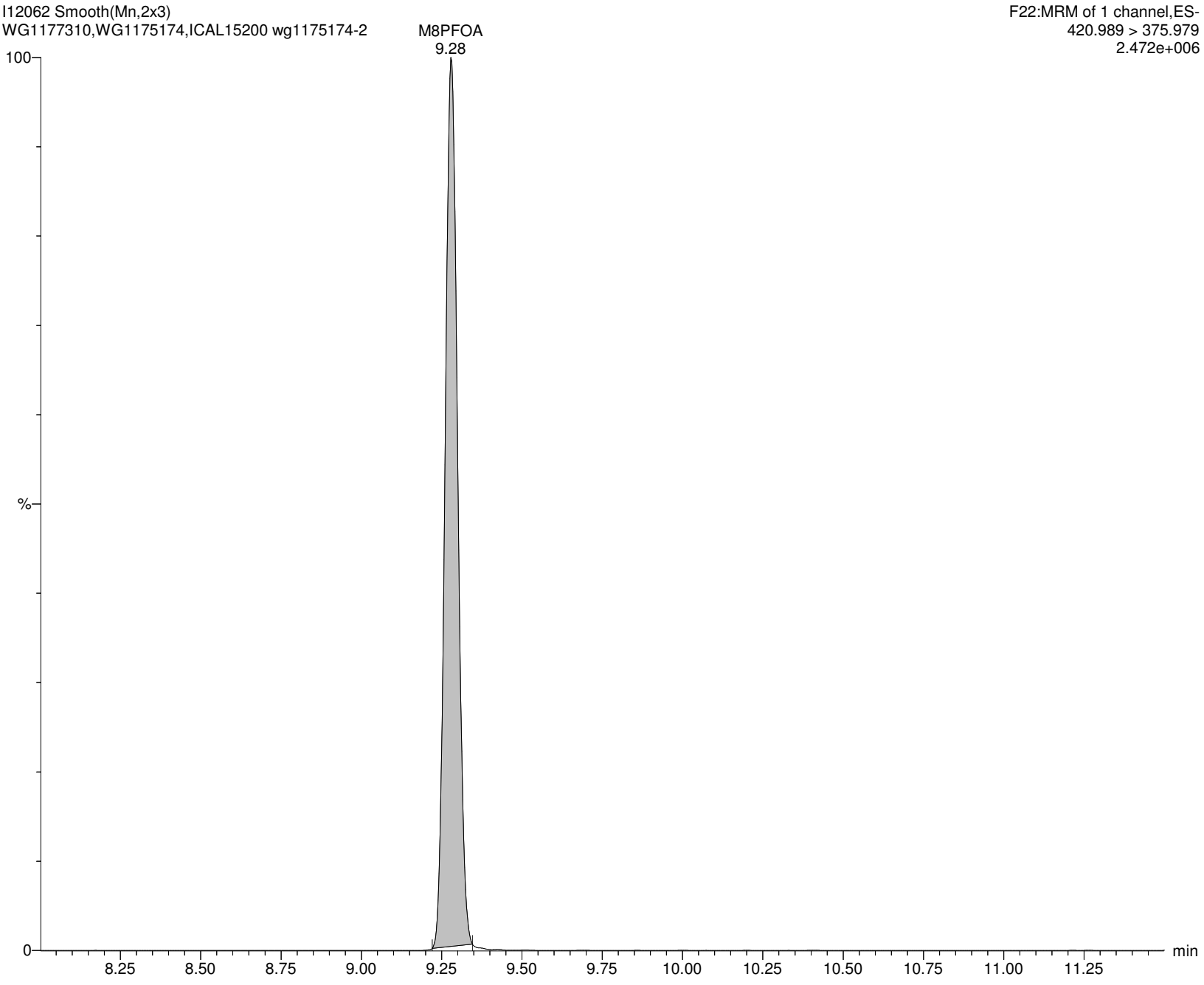

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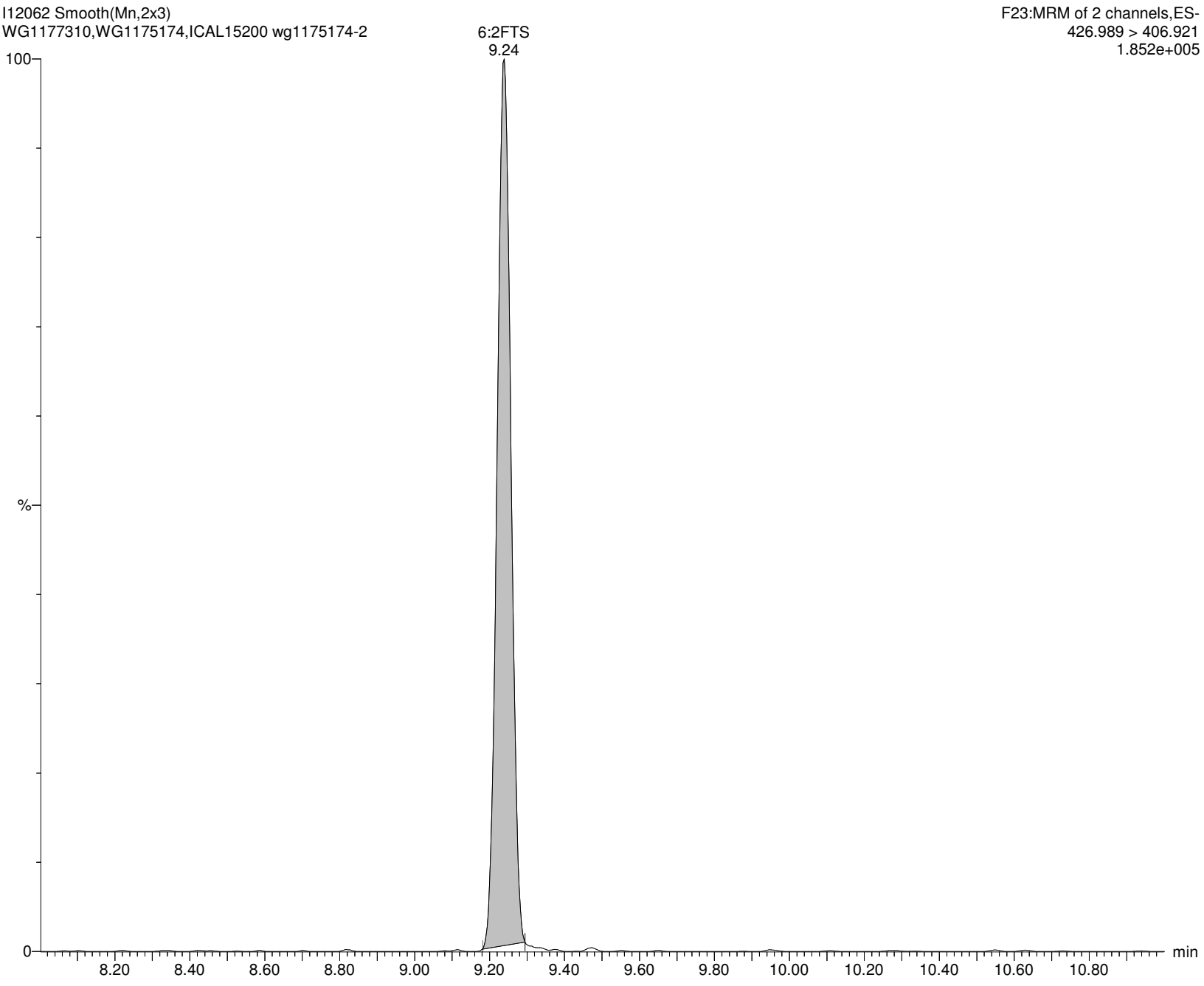

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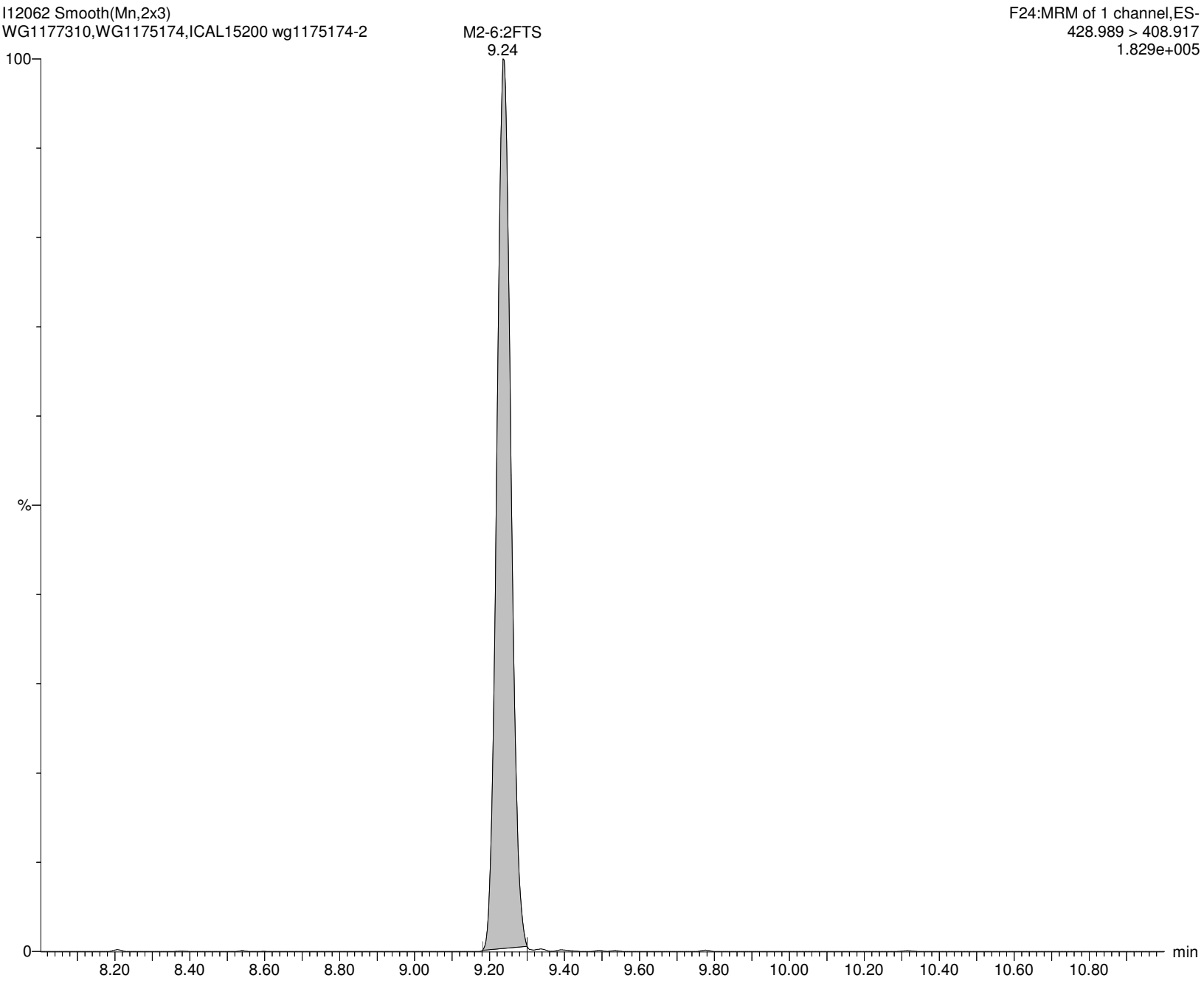

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Printed: Friday, November 09, 2018 06:41:07 Eastern Standard Time

Name: I12062
ID: wg1175174-2
Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
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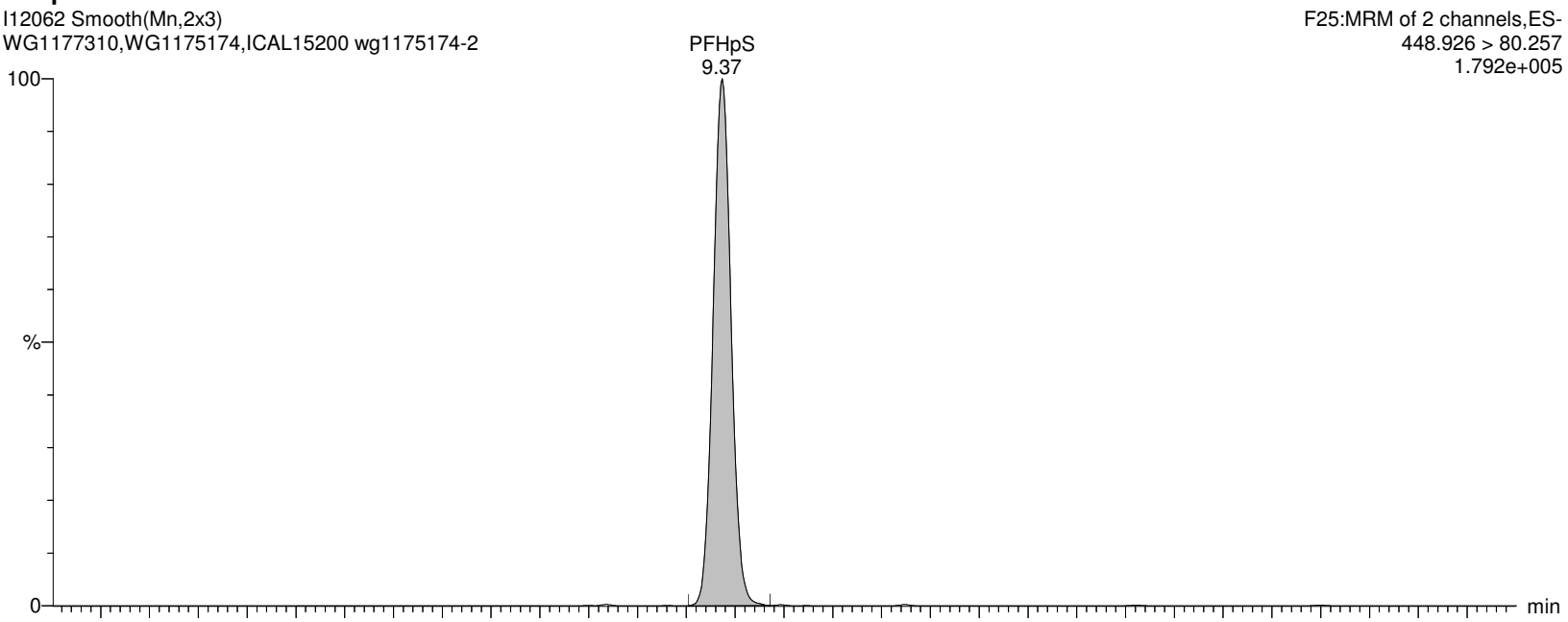

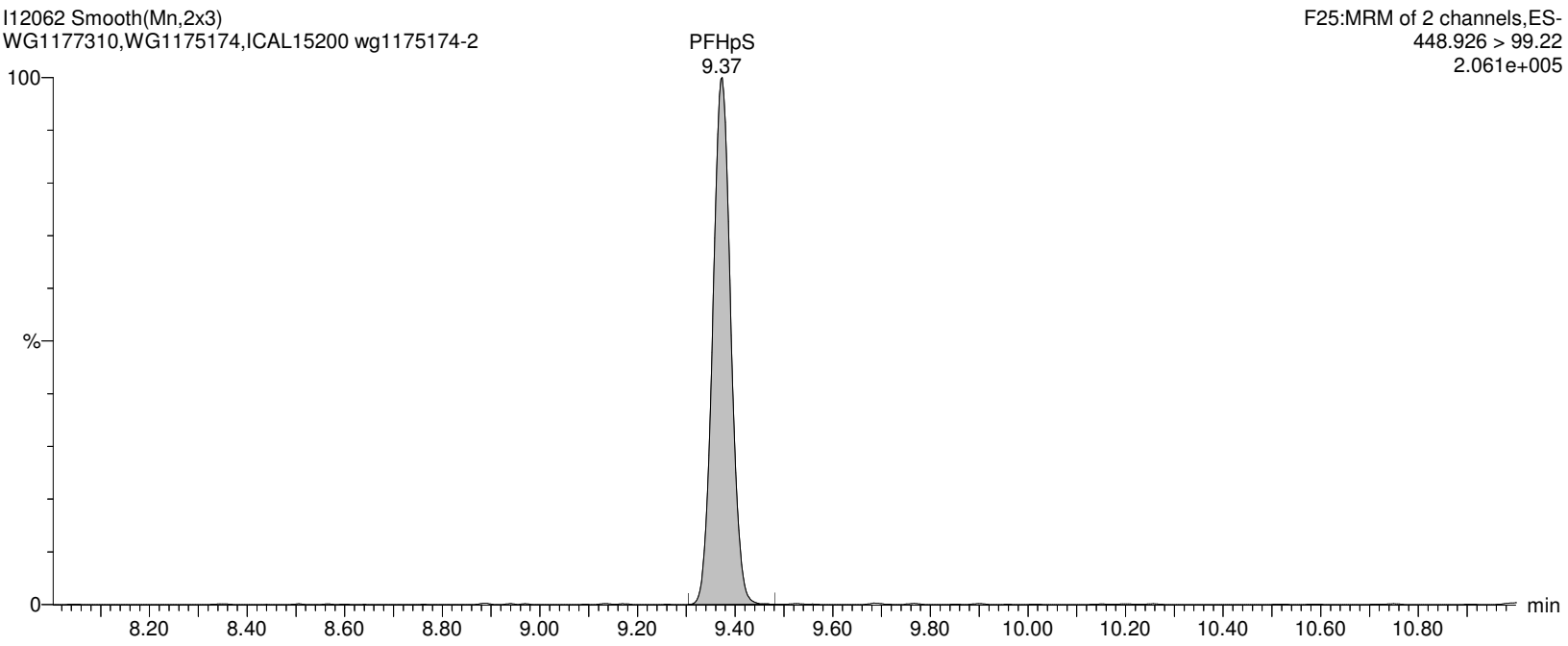

all concentration units in (ng/mL)

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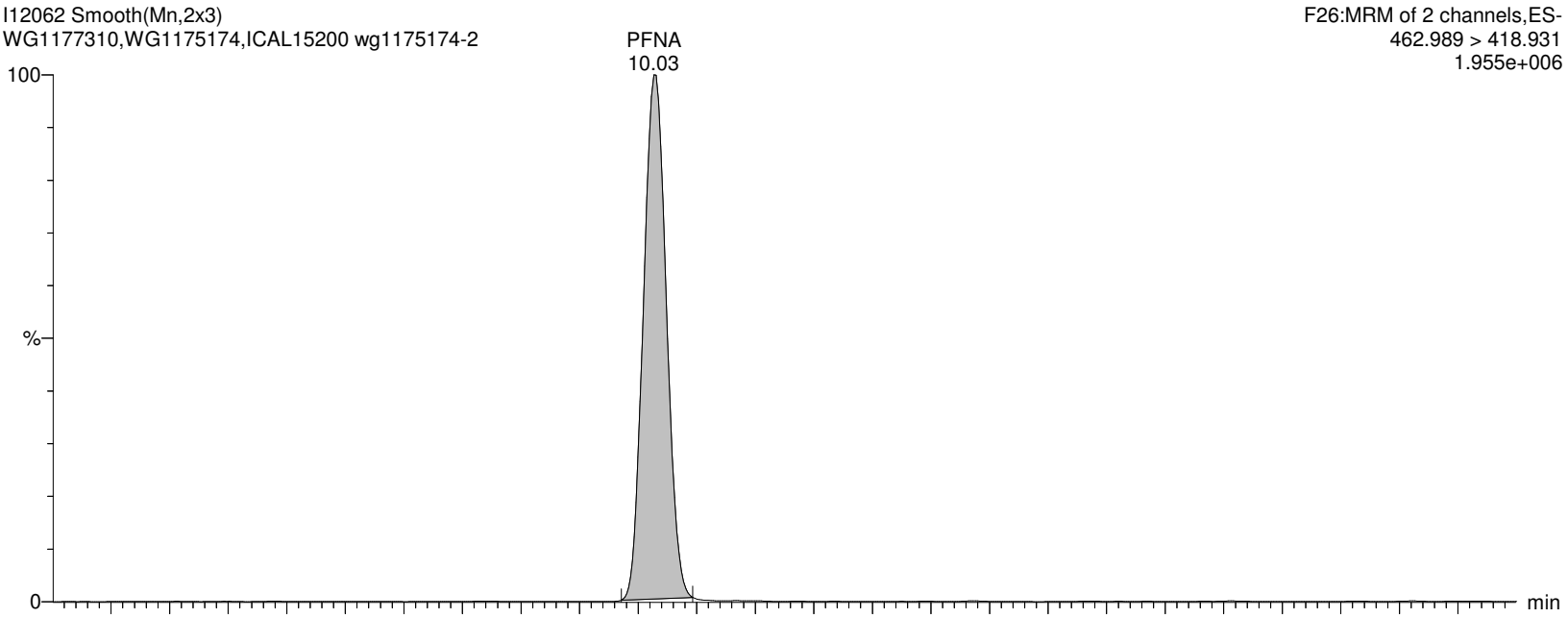

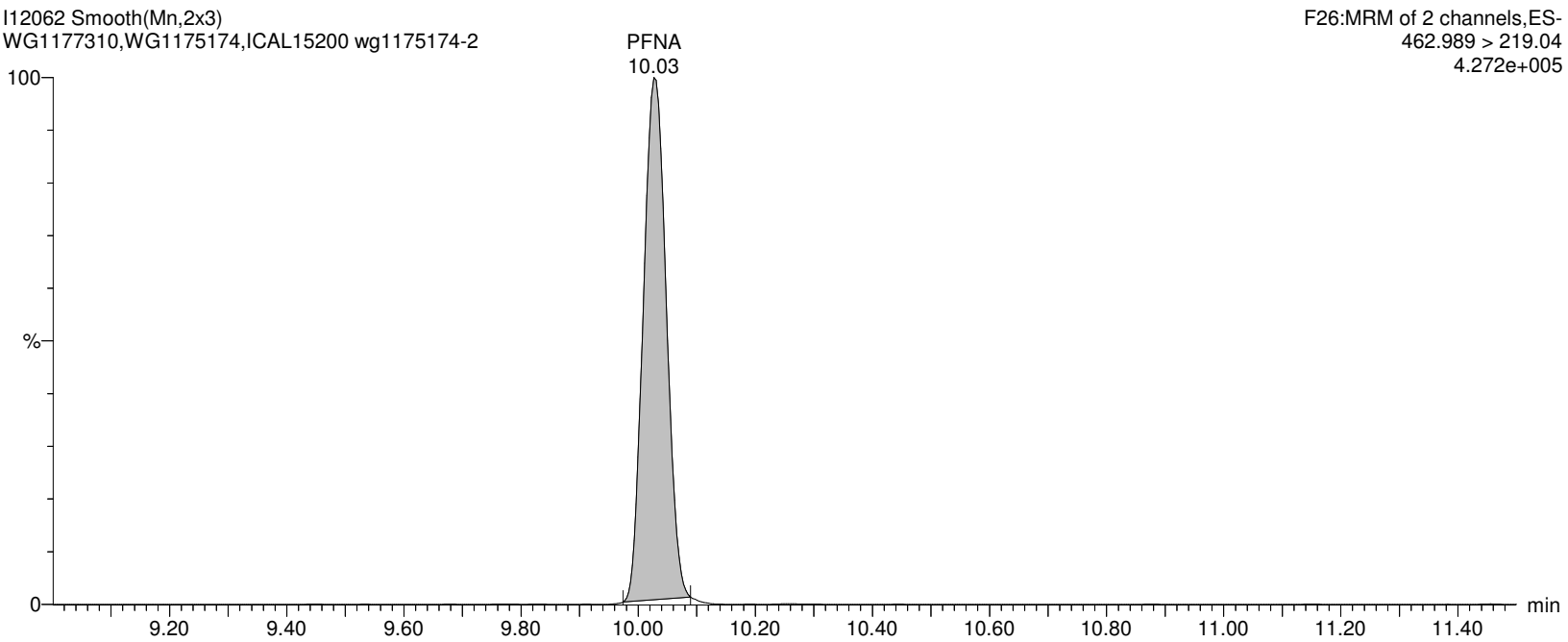

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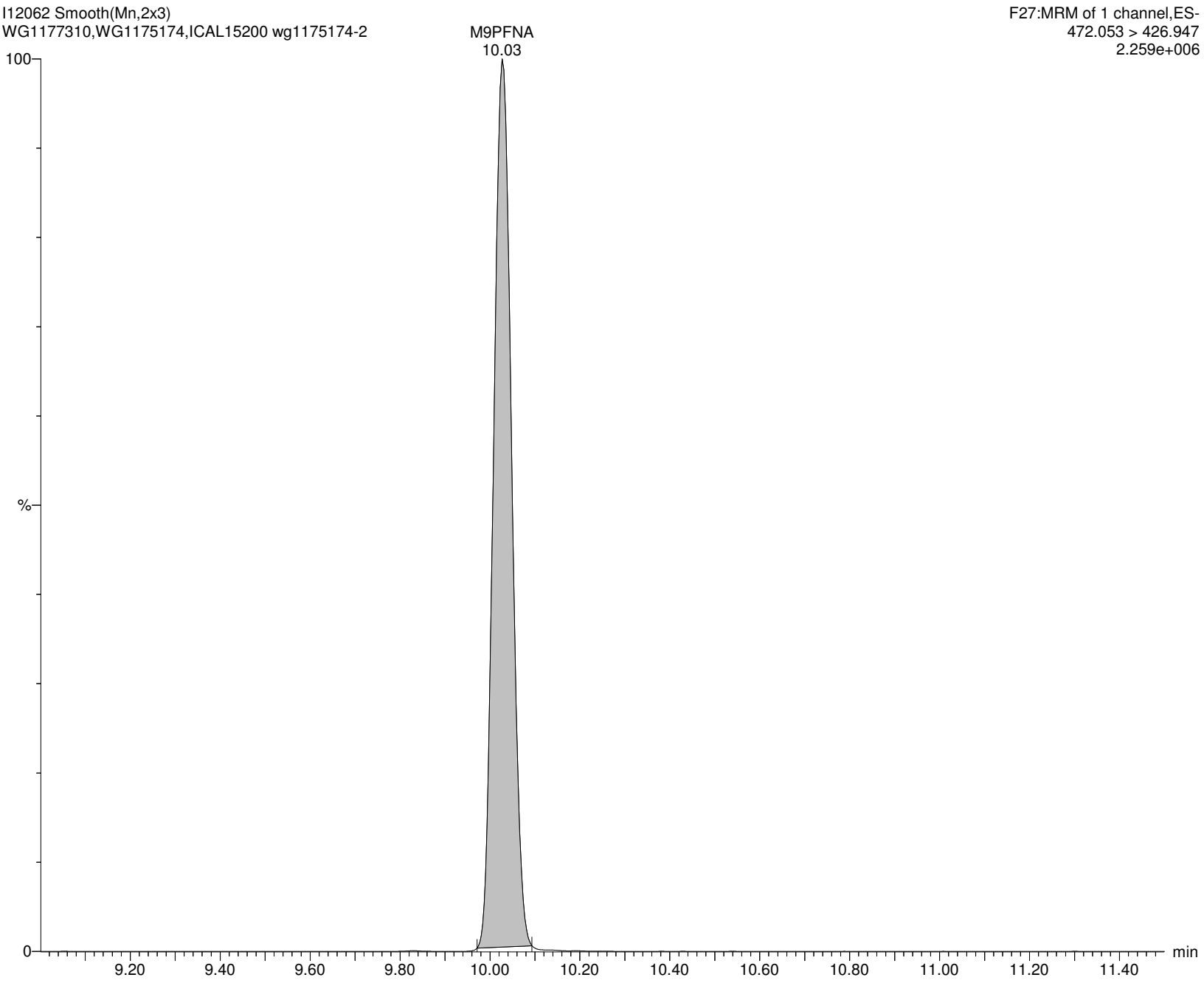

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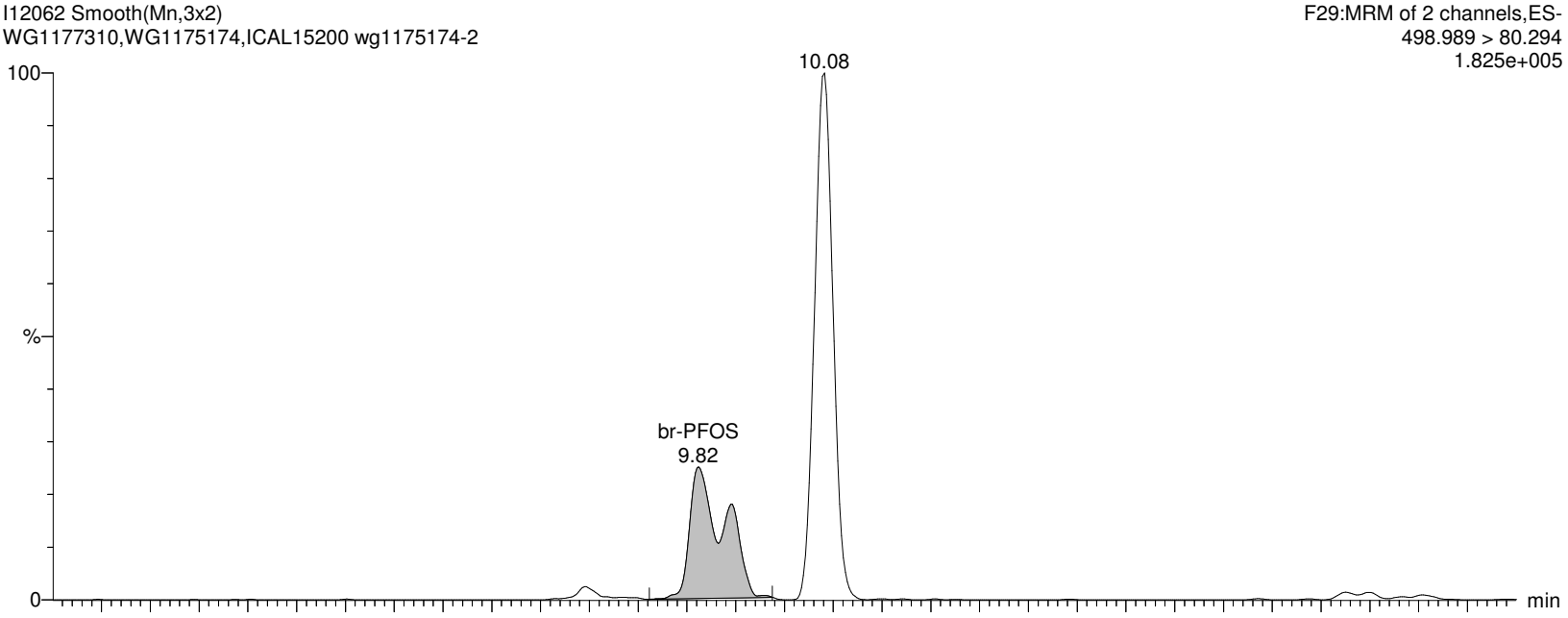

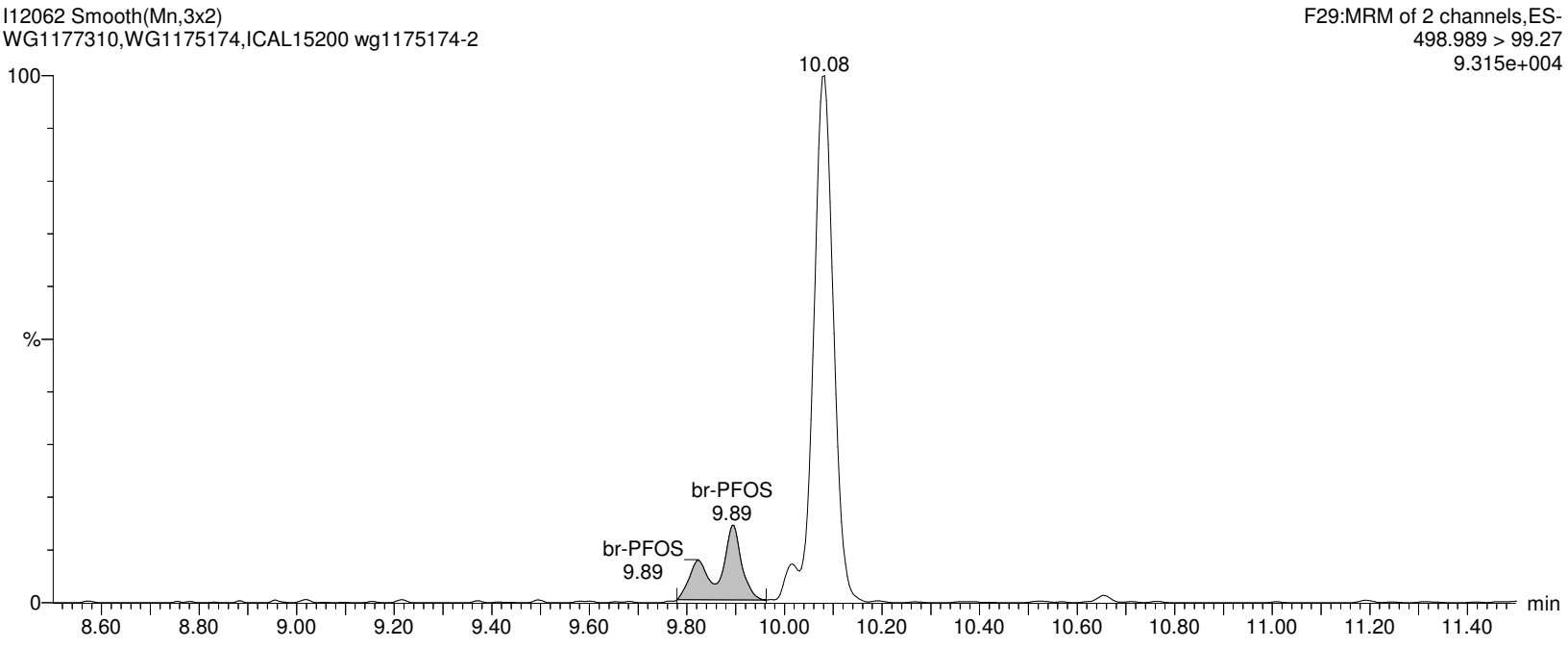

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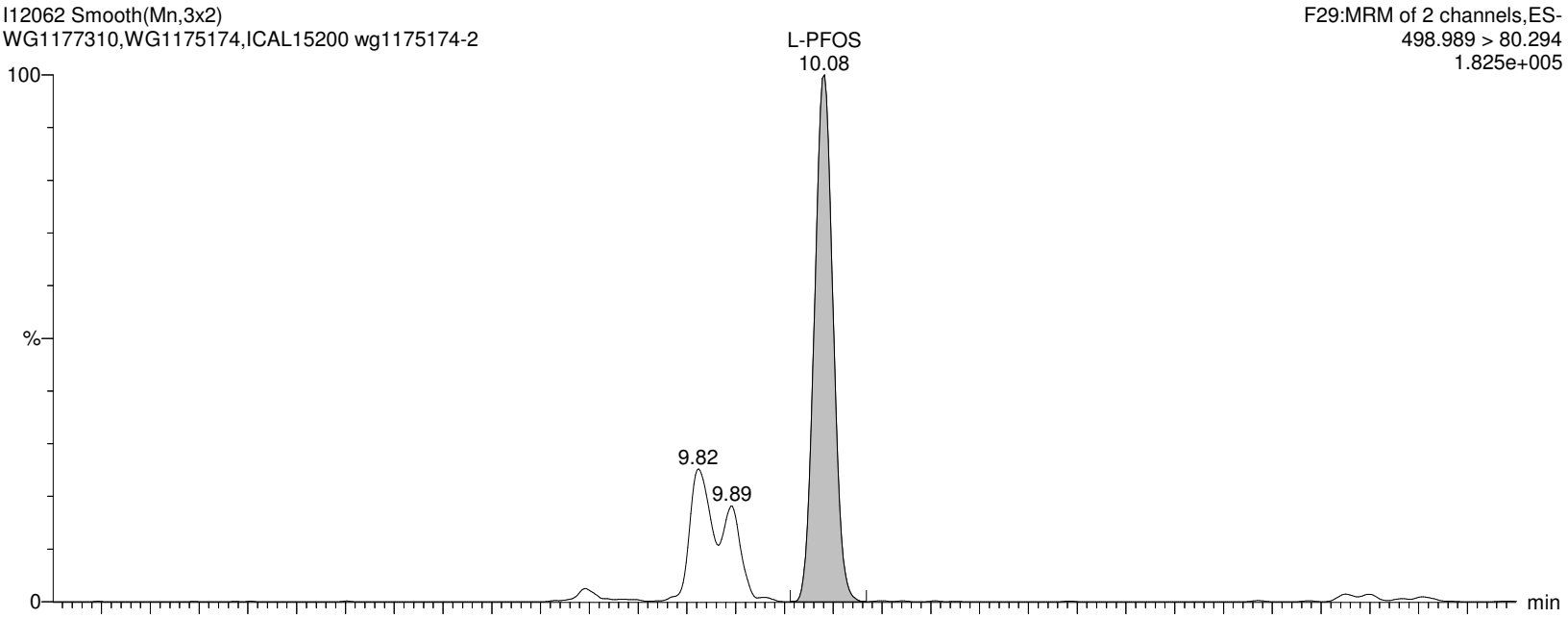

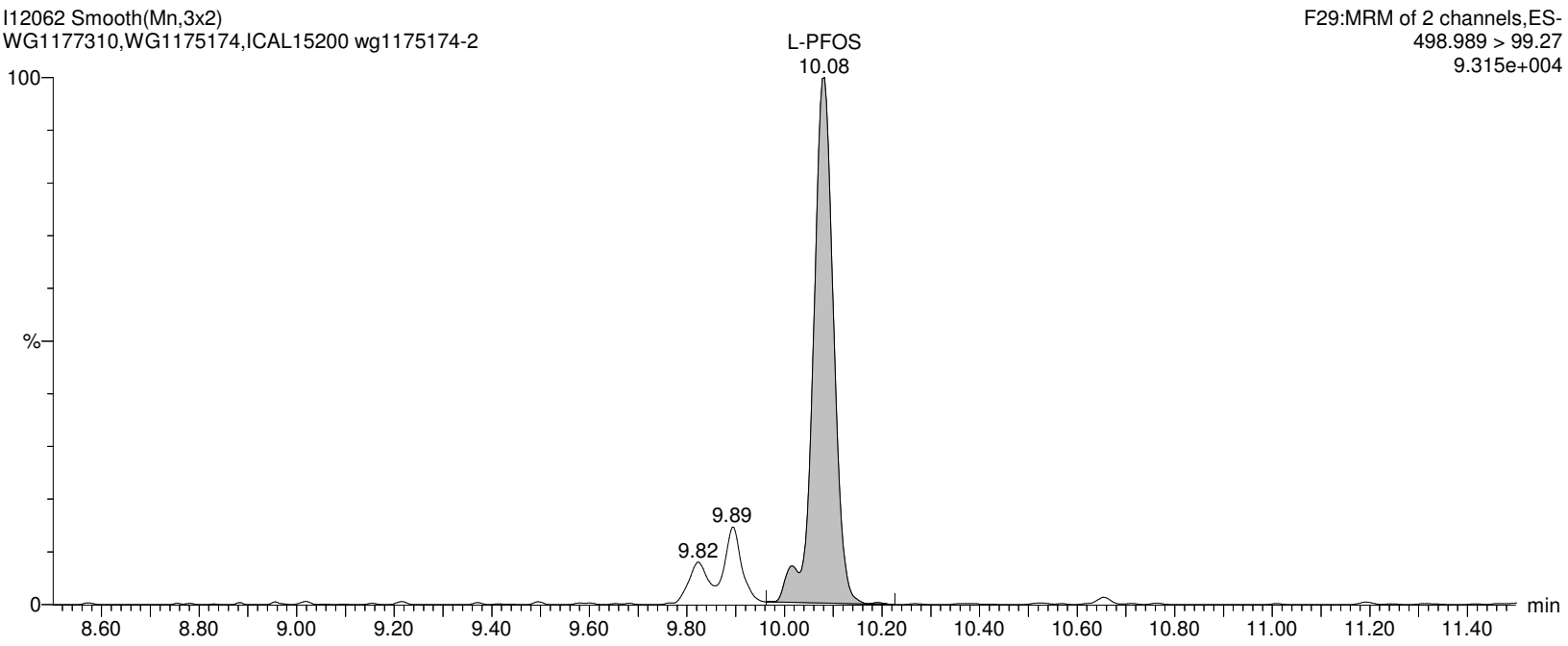

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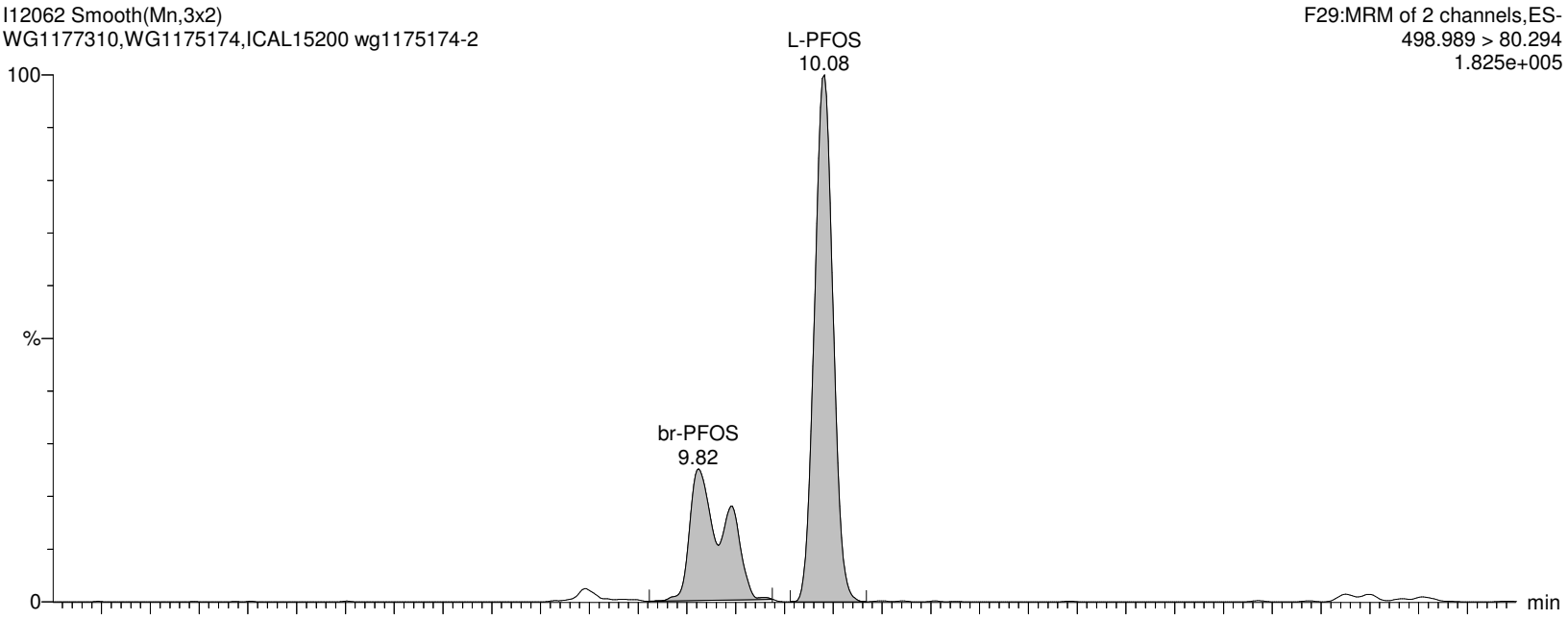

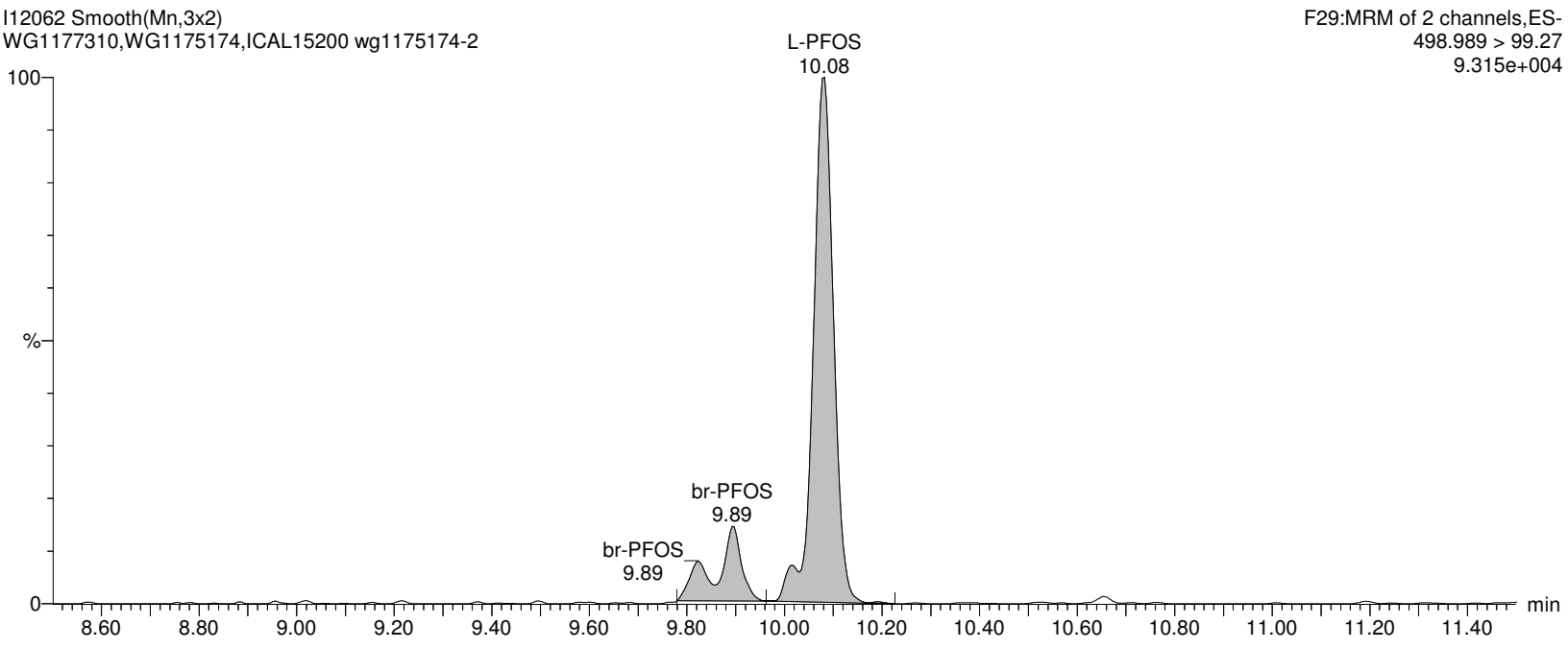

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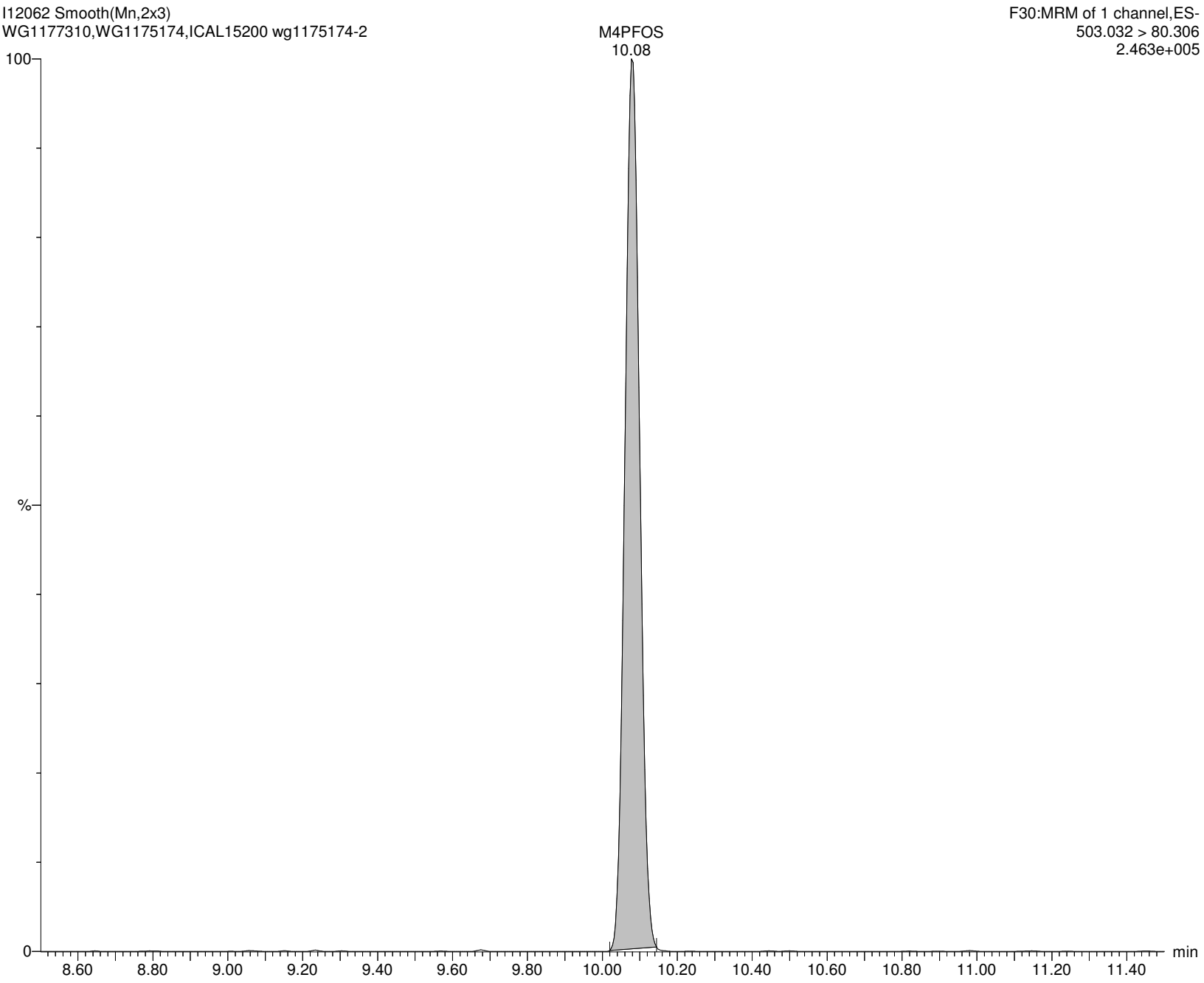

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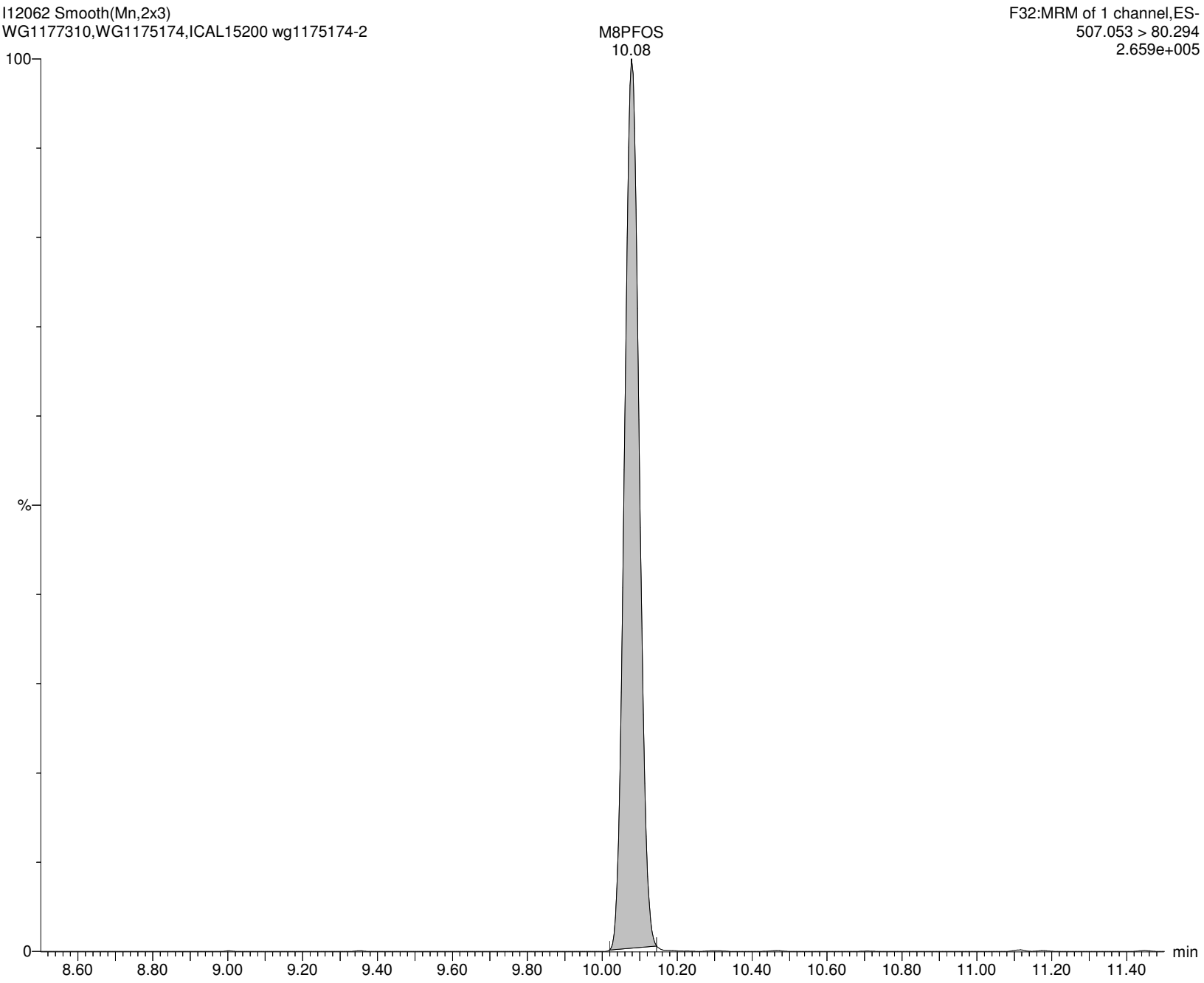

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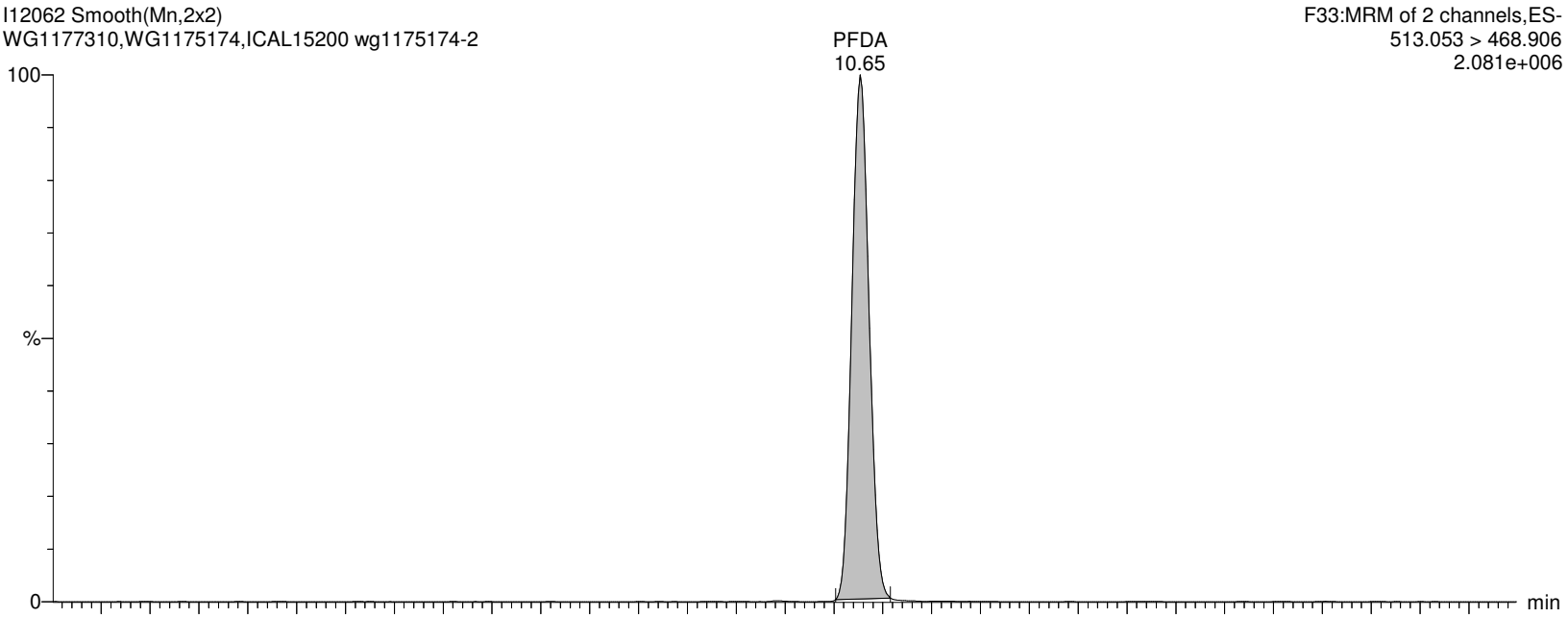

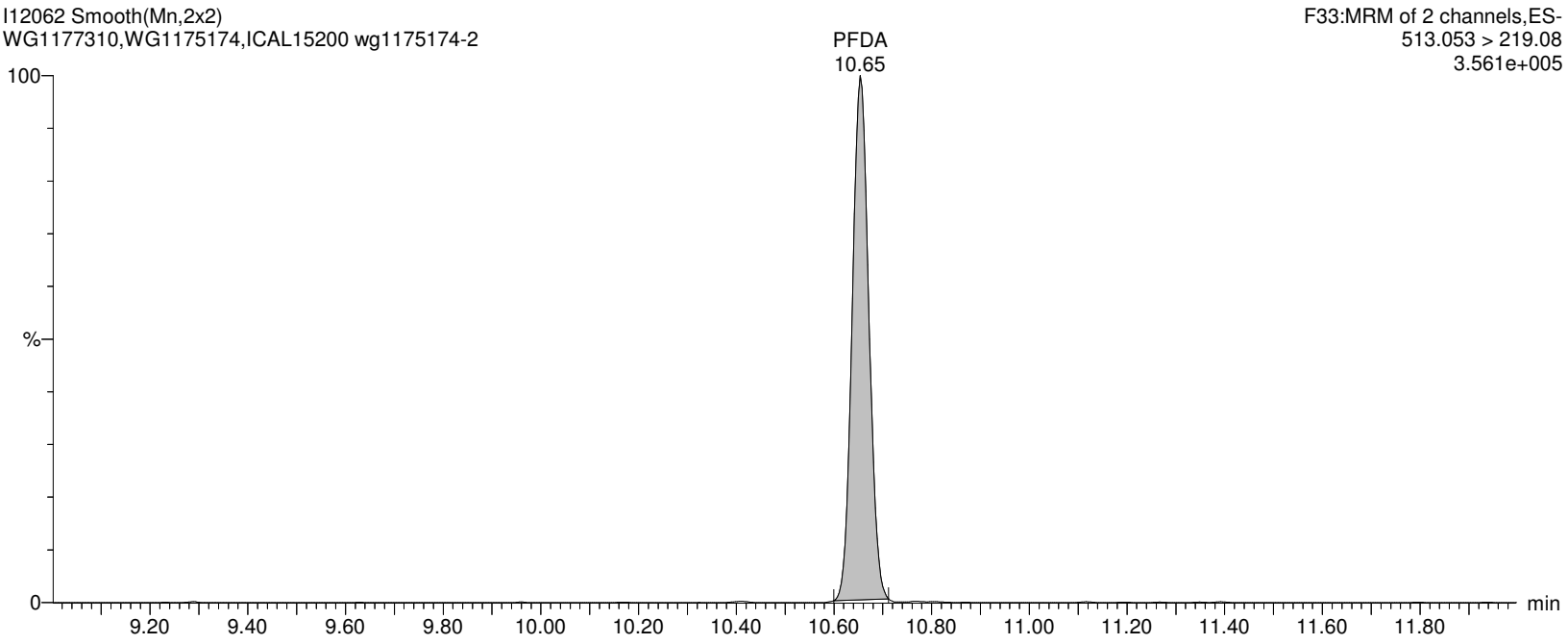

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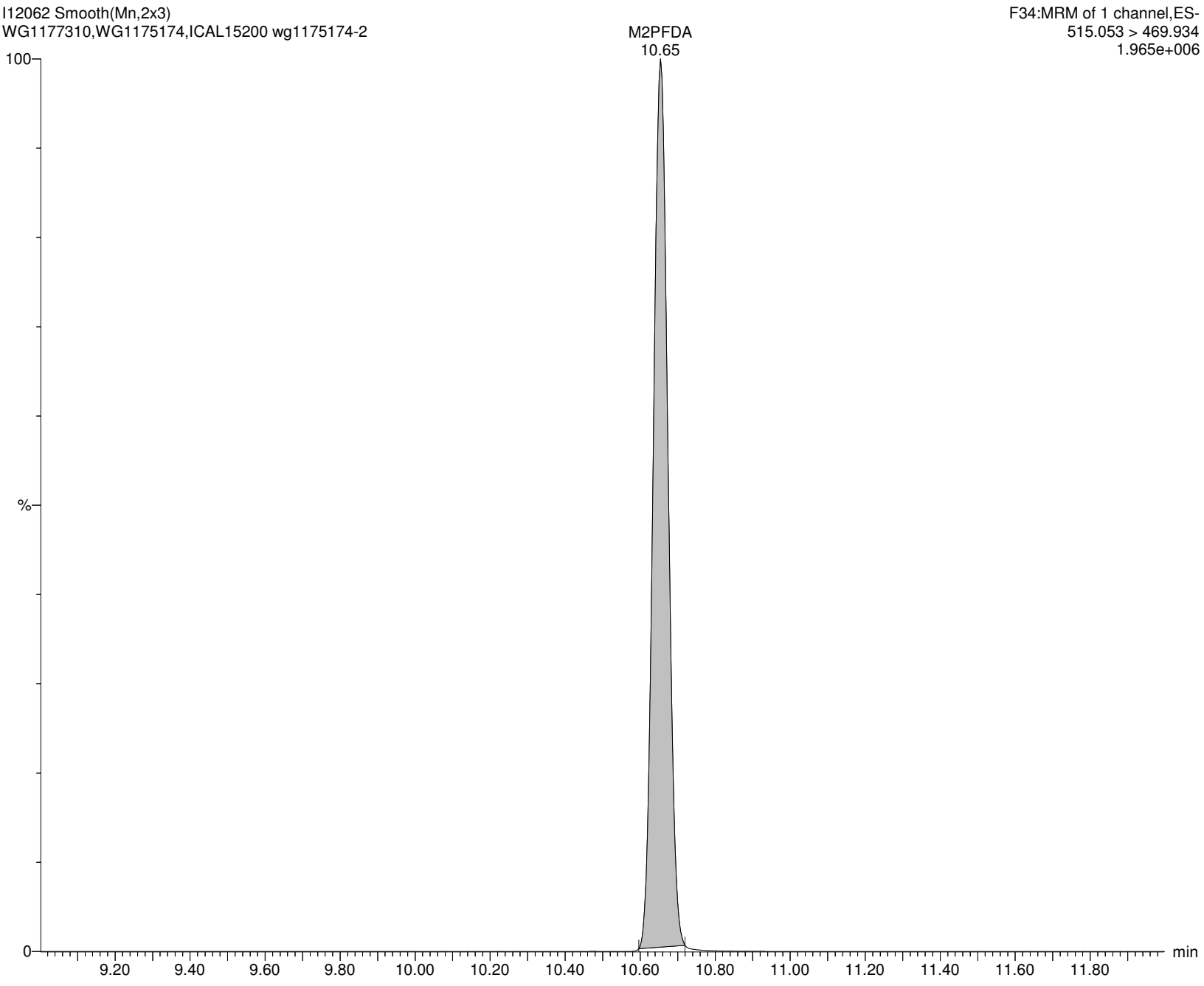

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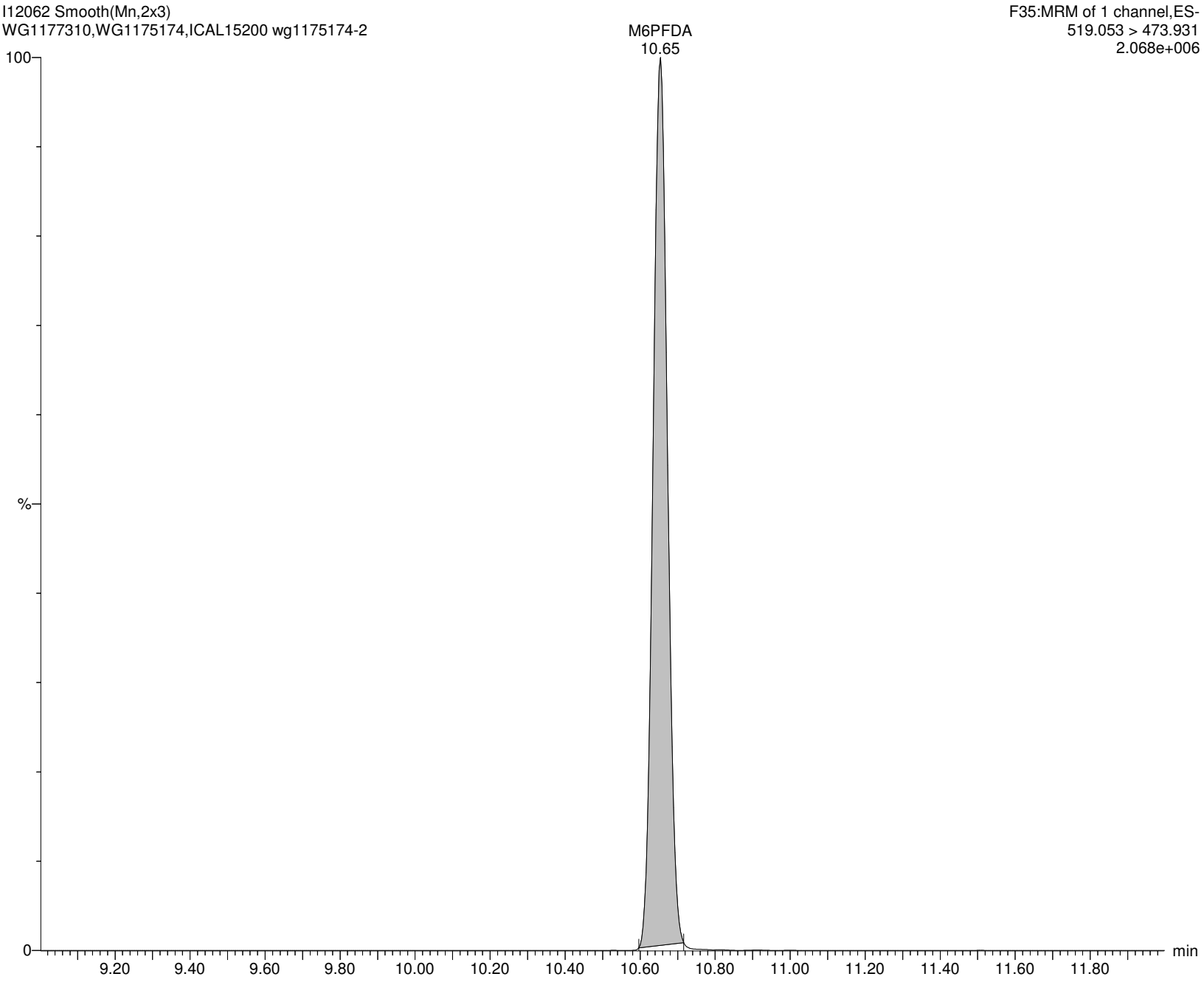

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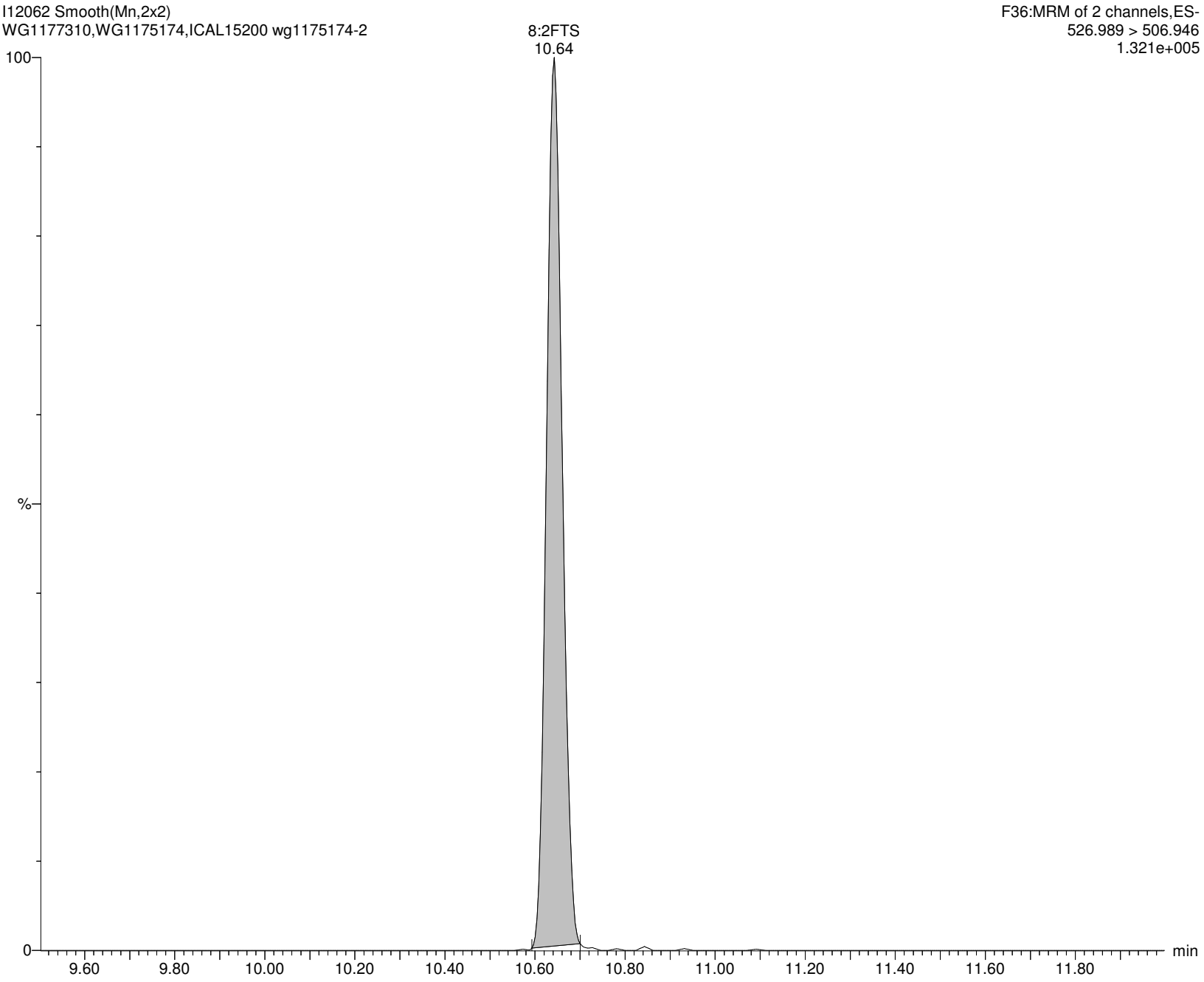

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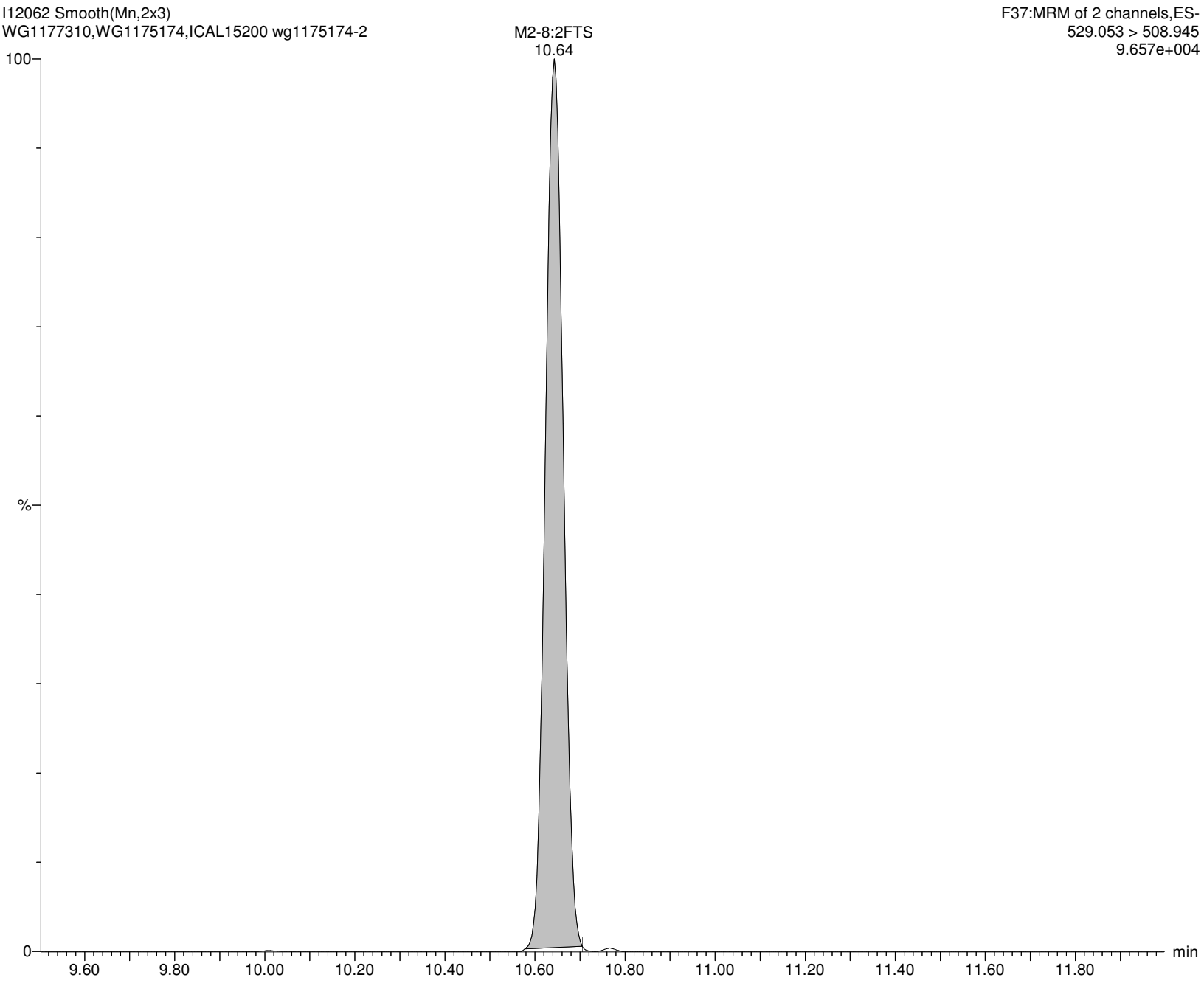

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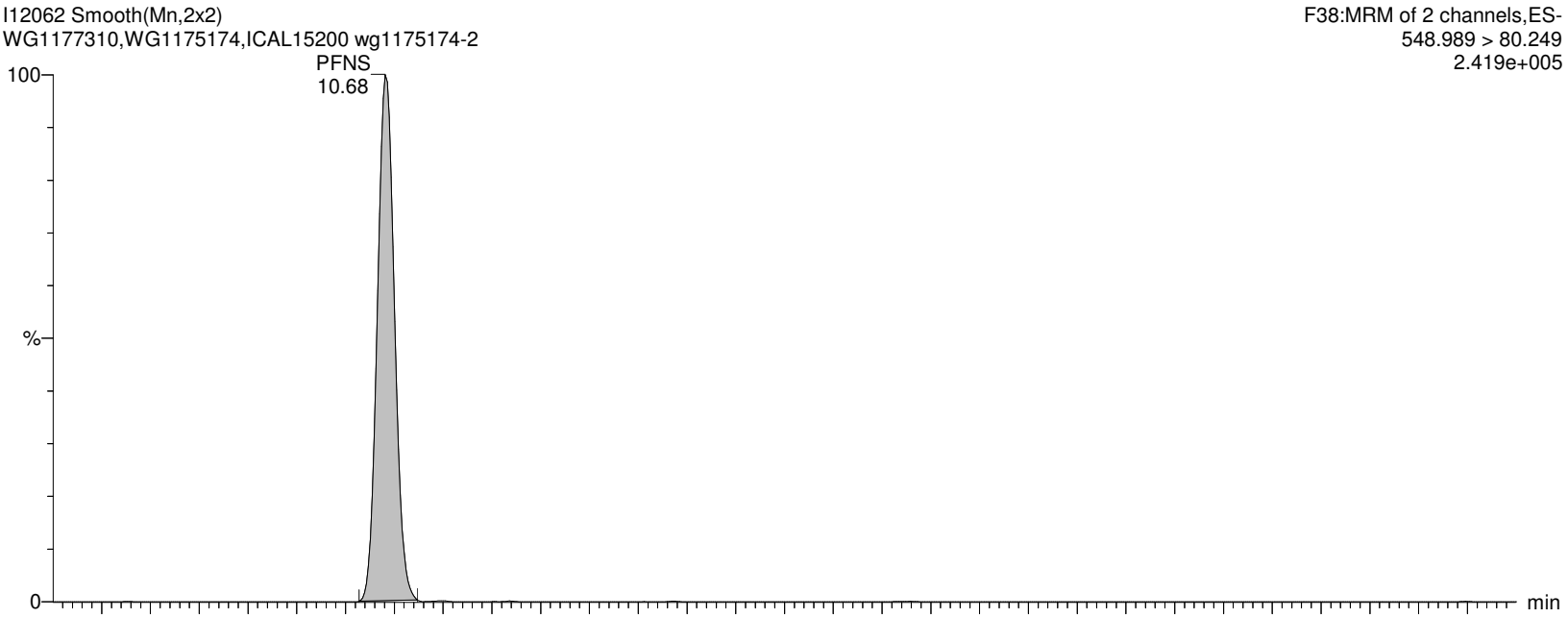

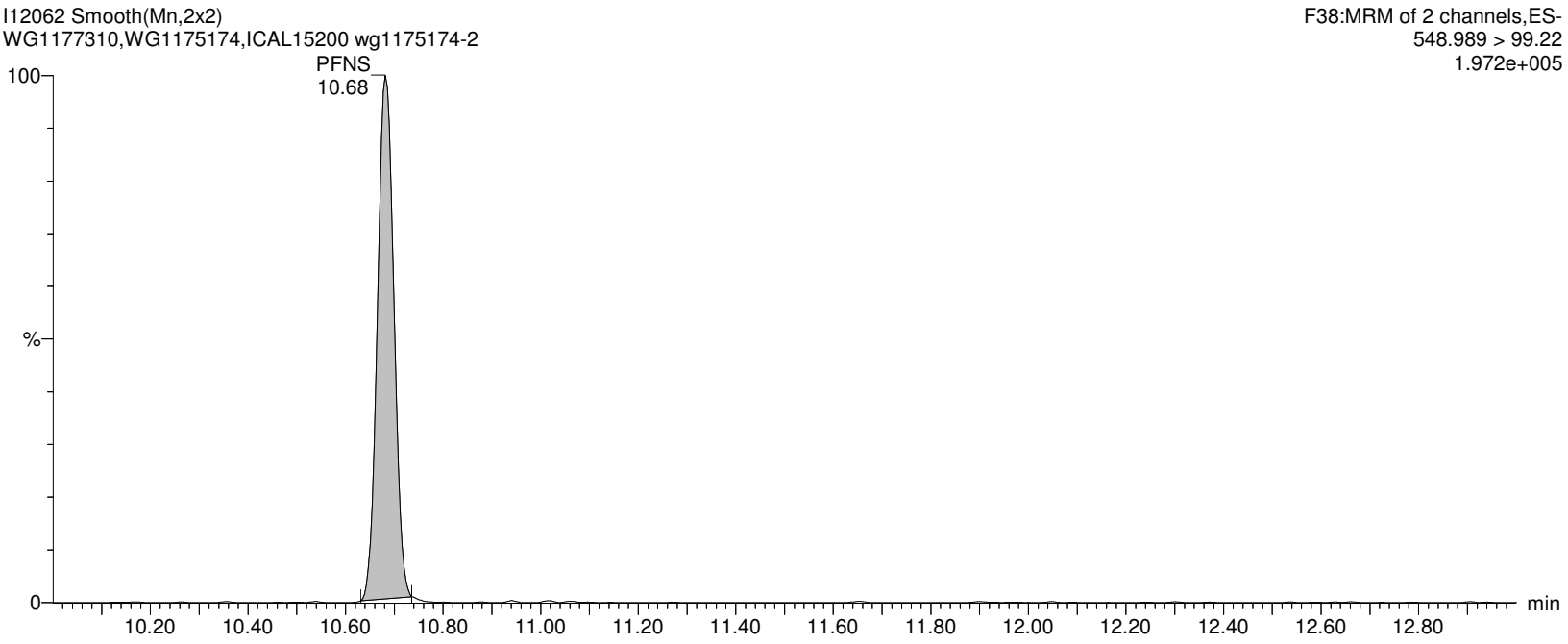

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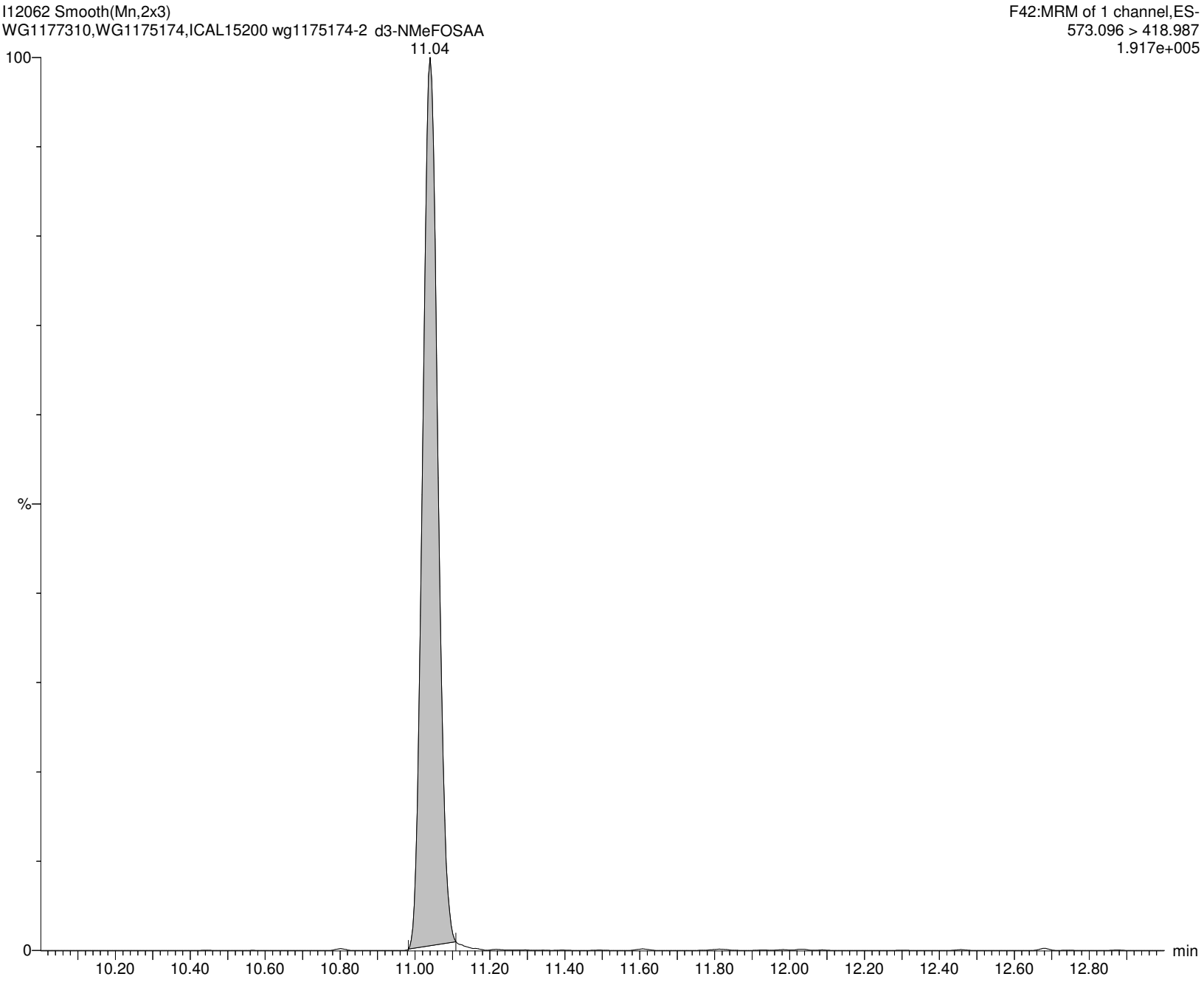

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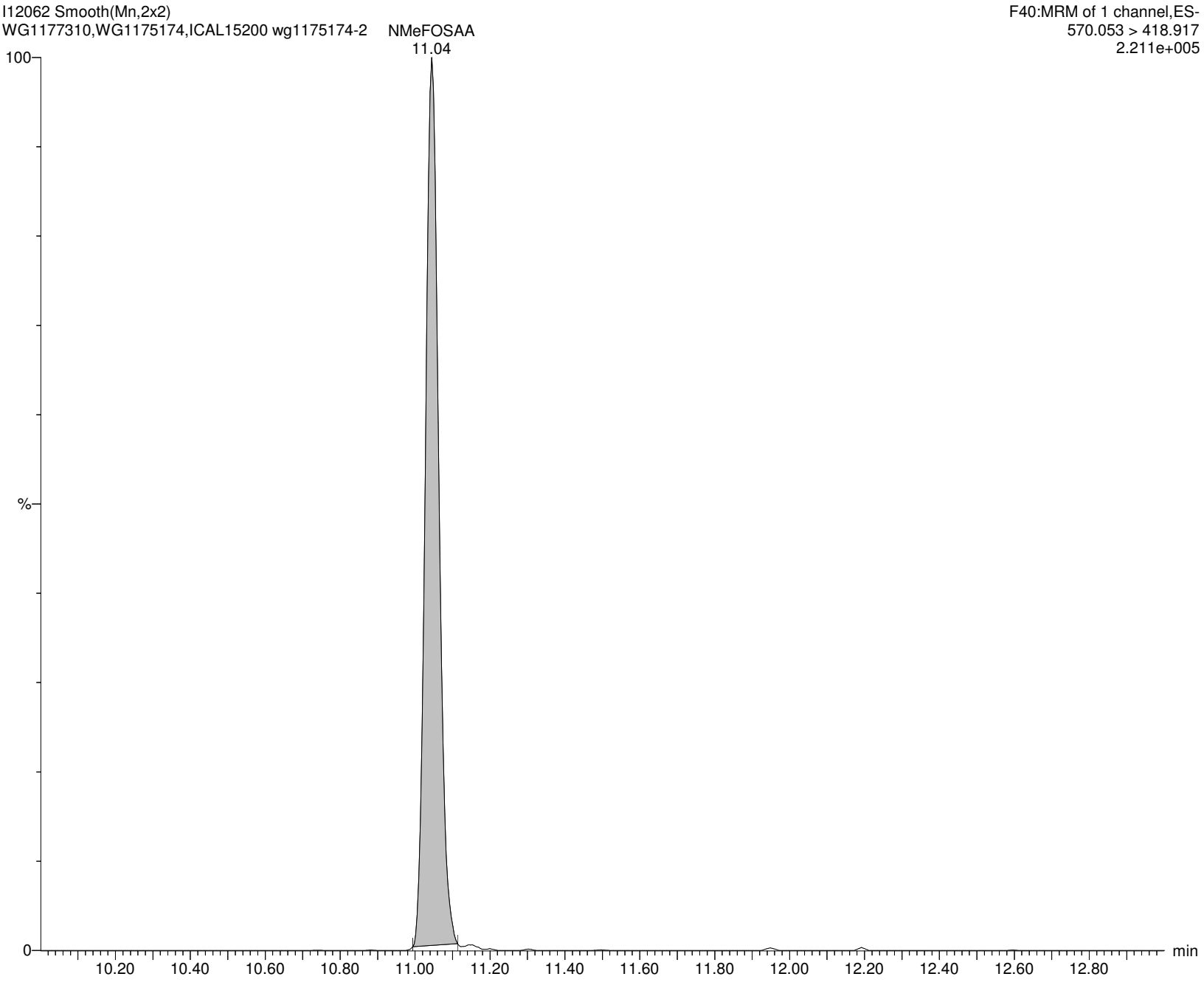

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Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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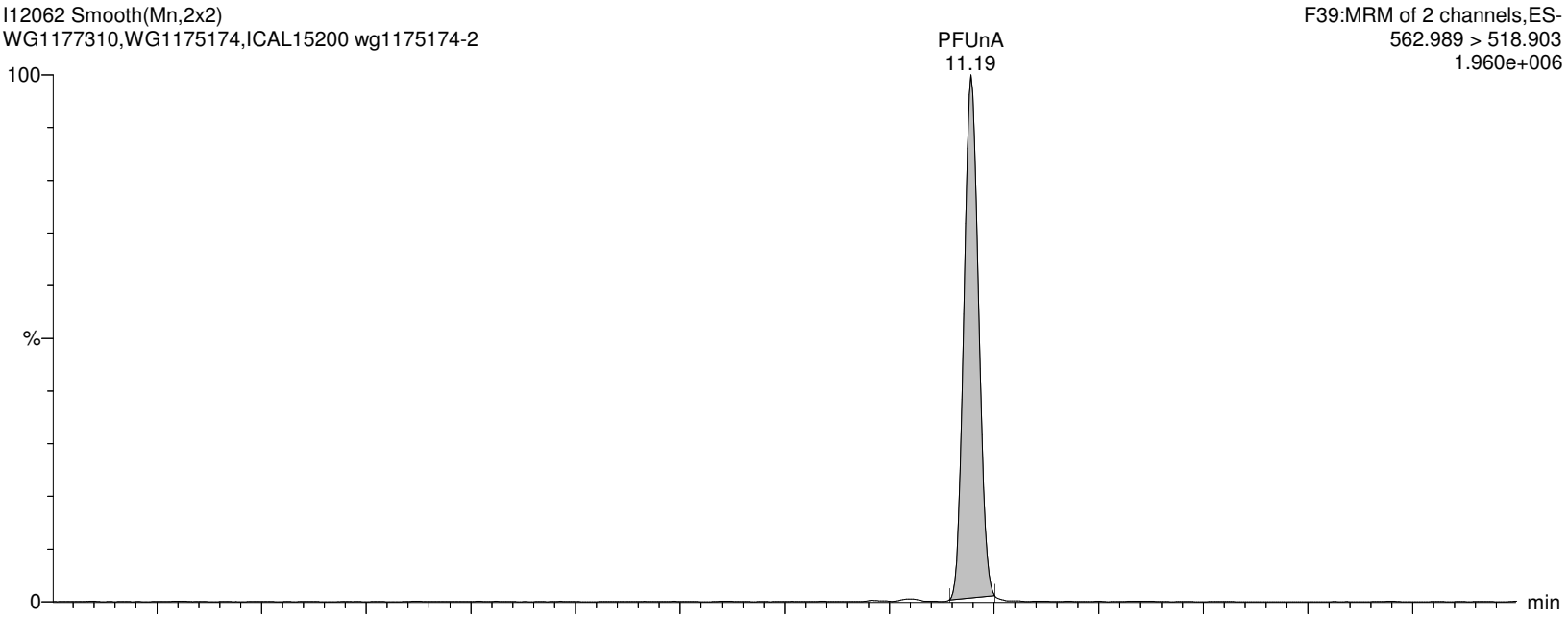

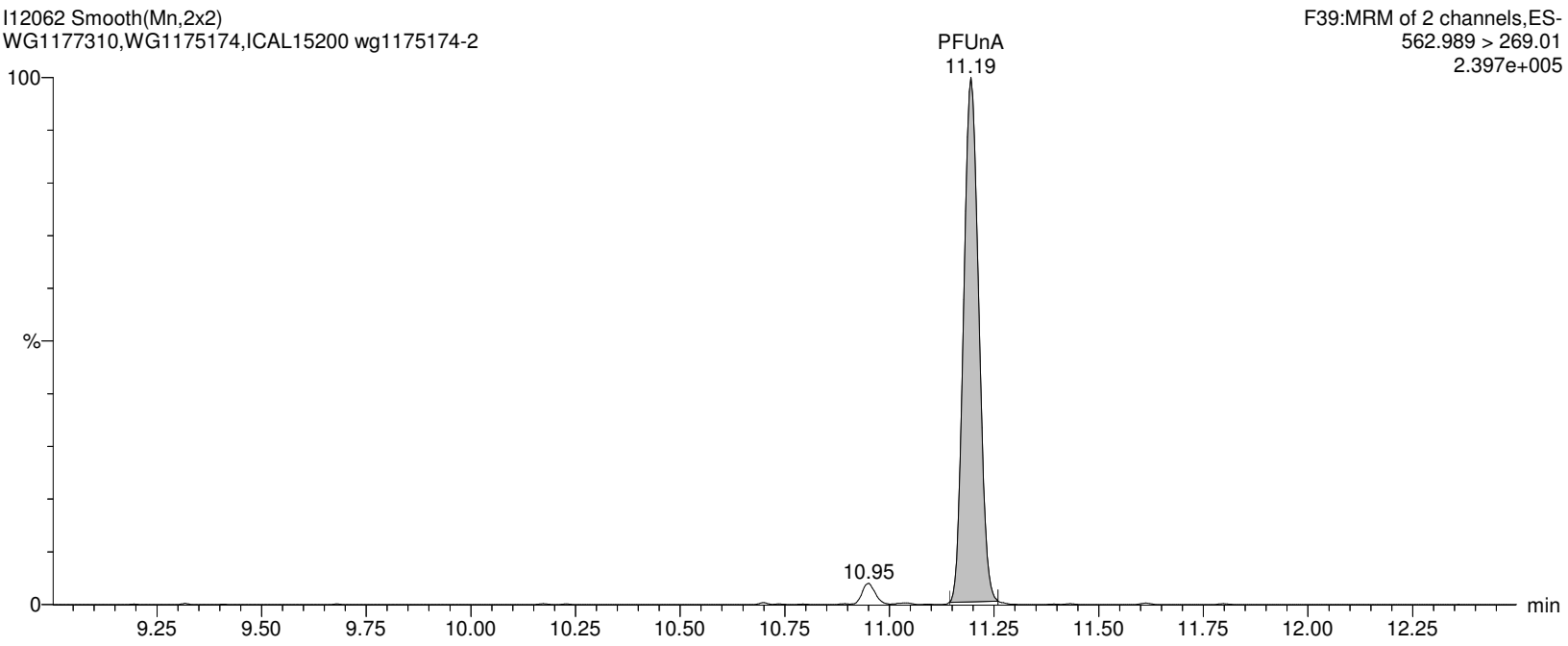

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:07 Eastern Standard Time

Name: I12062
ID: wg1175174-2
Date: 08-Nov-2018
Time: 13:45:26
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
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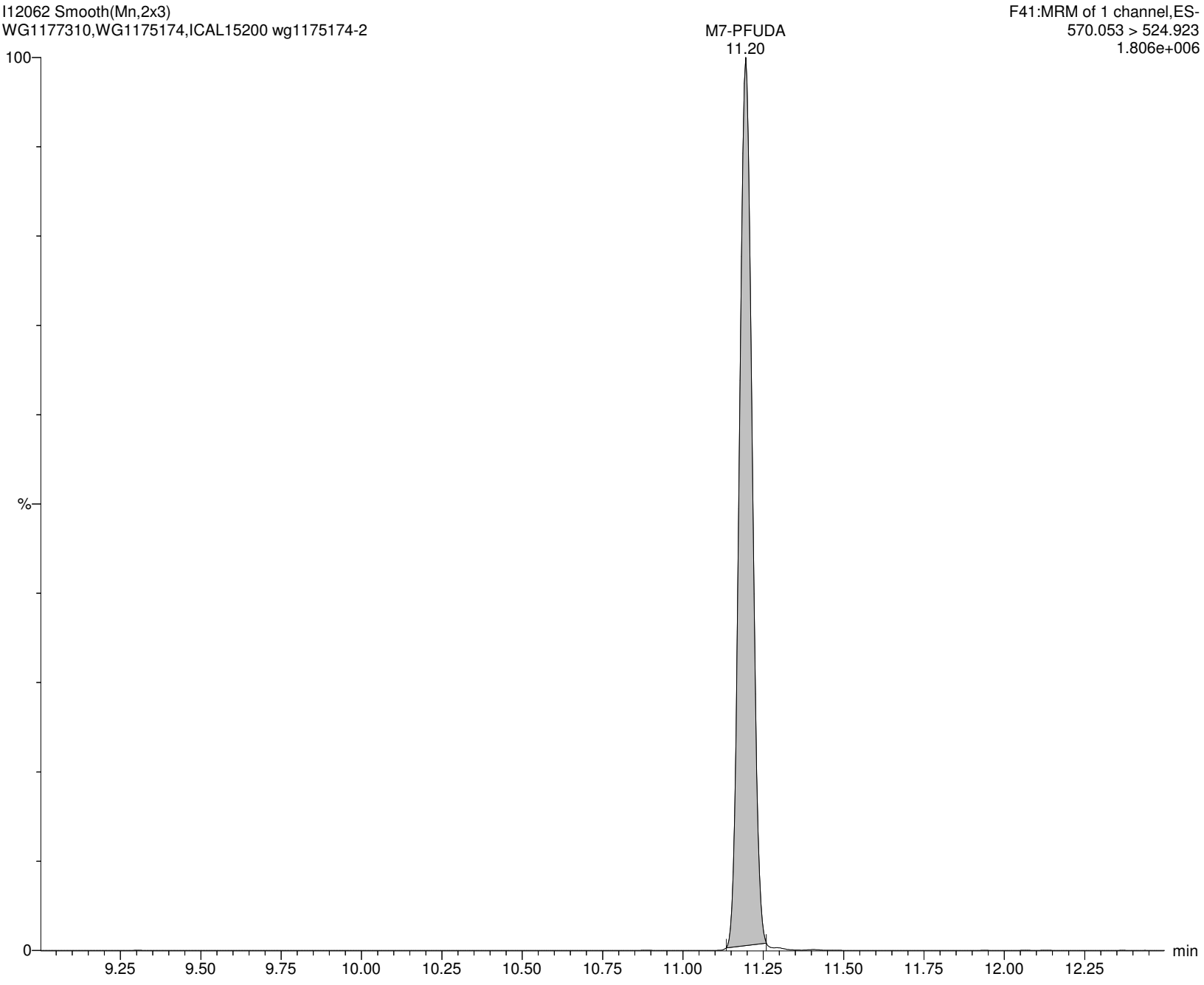
M7-PFUDA



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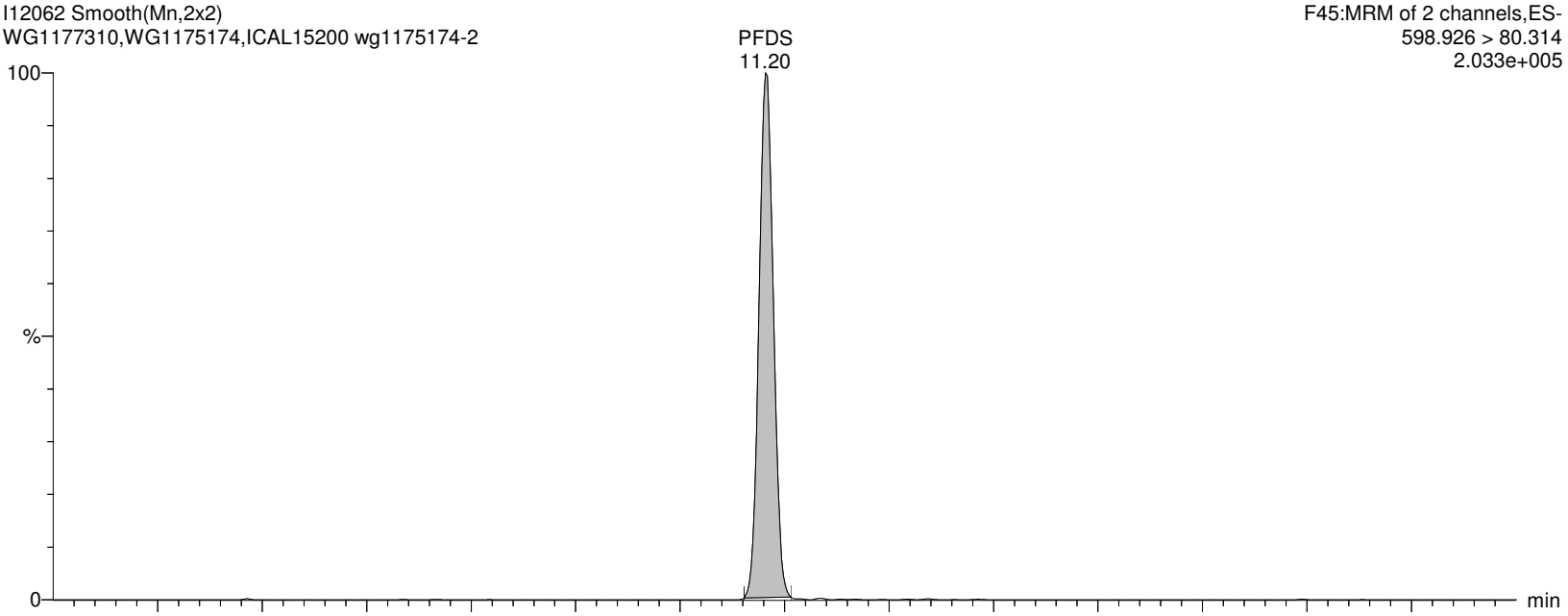

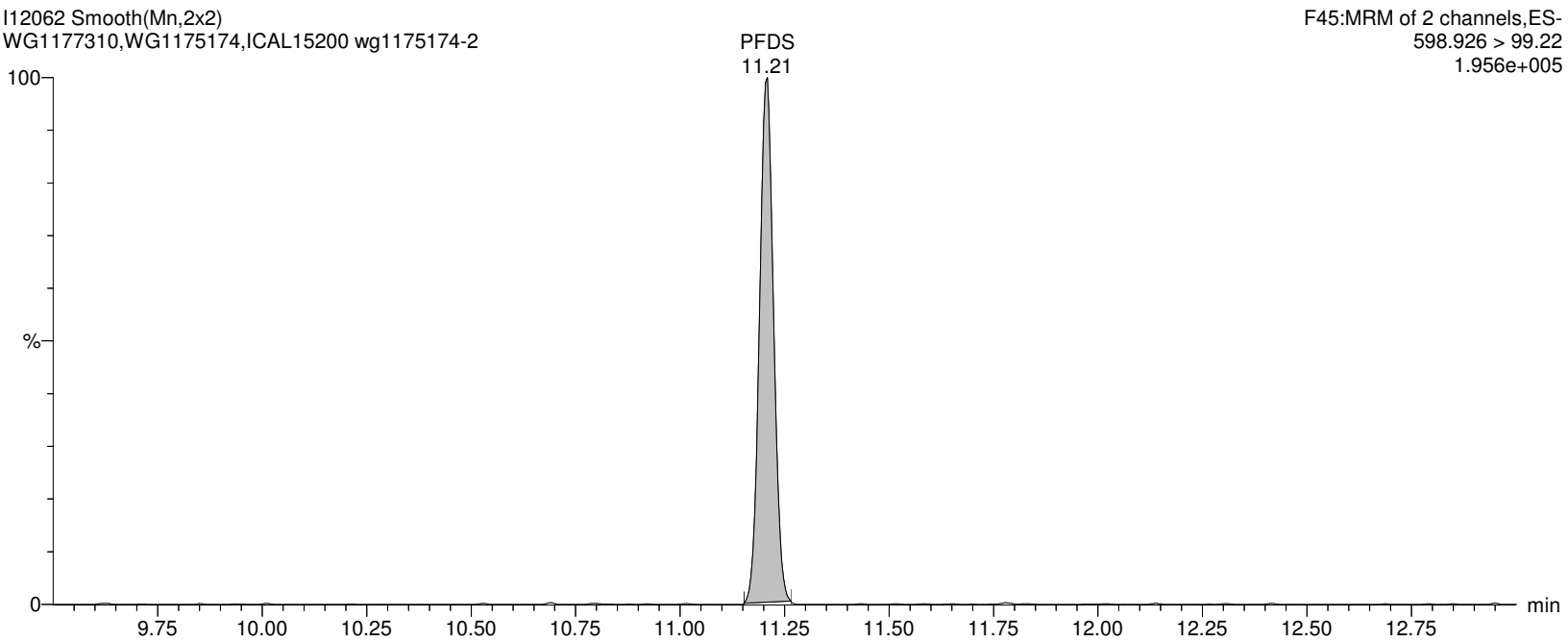

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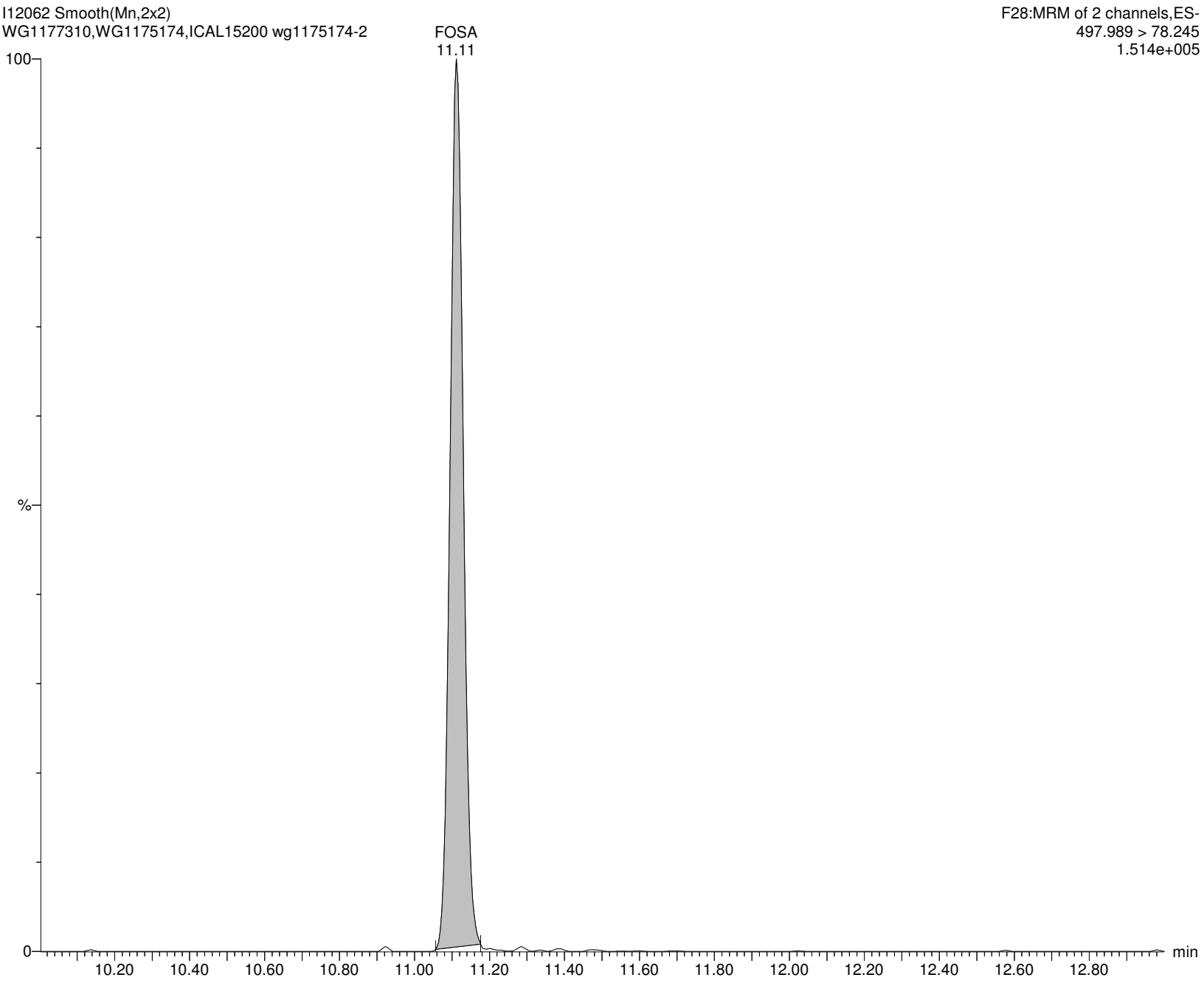

all concentration units in (ng/mL)

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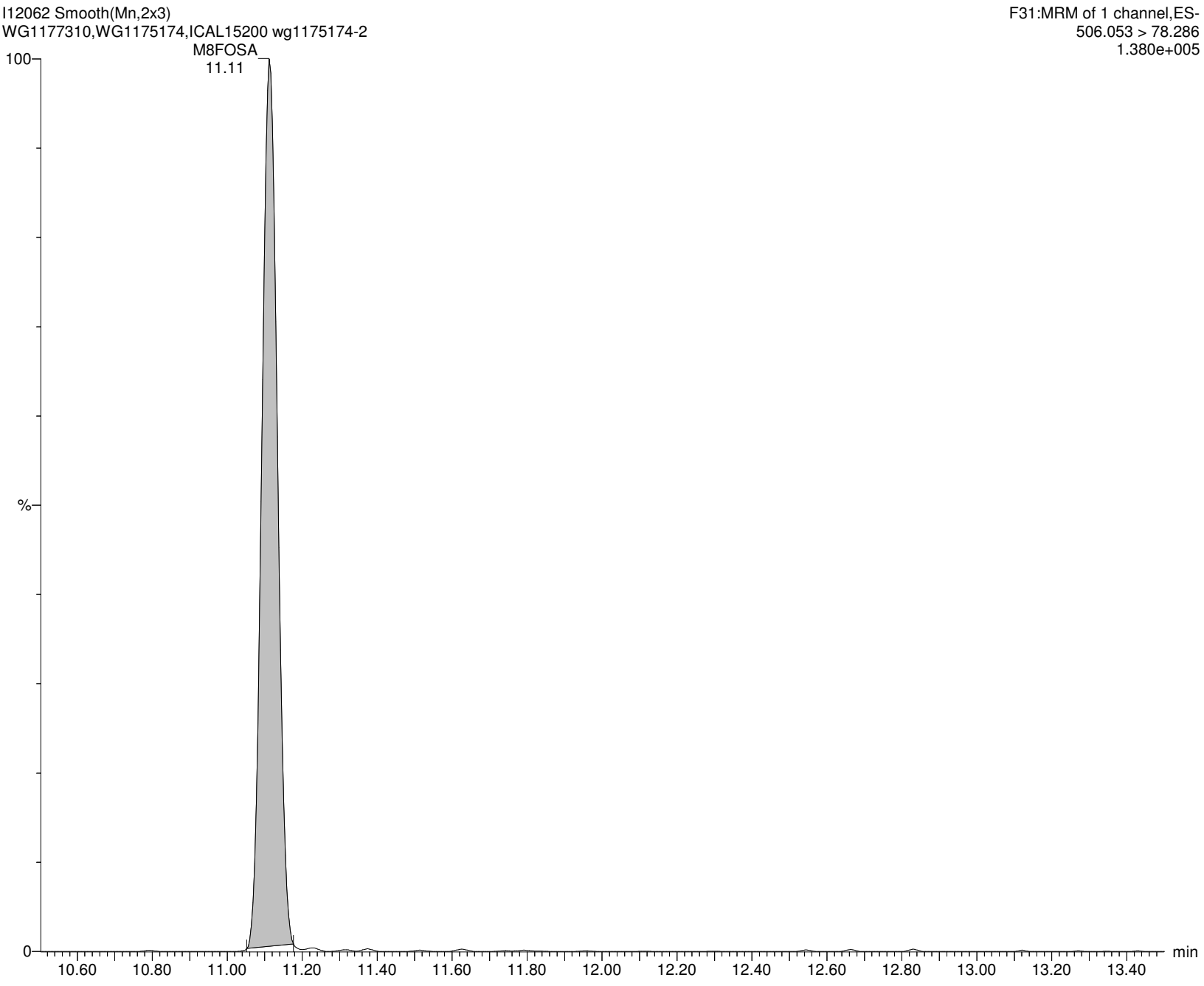
M8FOSA



all concentration units in (ng/mL)

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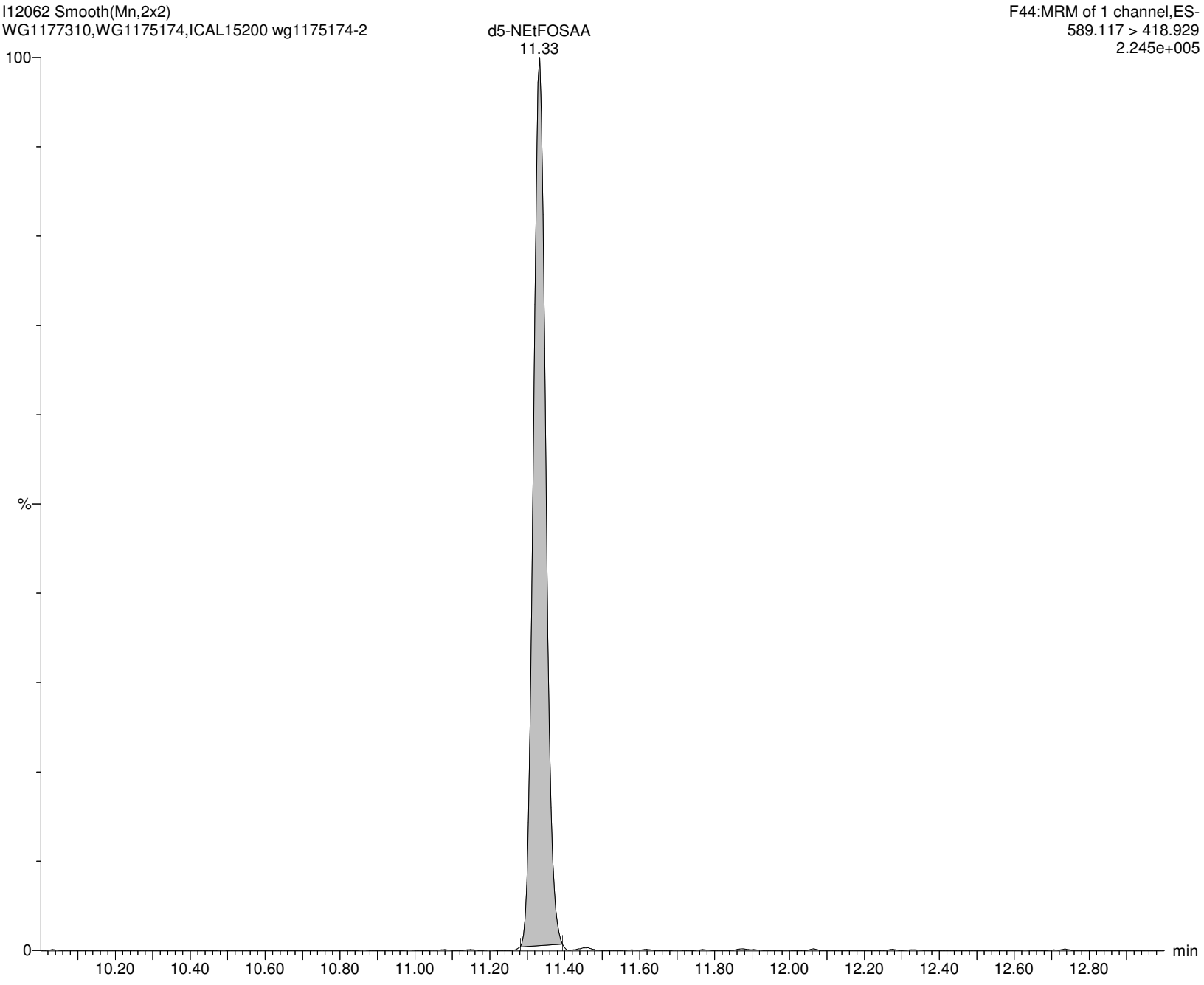
d5-NEtFOSAA



all concentration units in (ng/mL)

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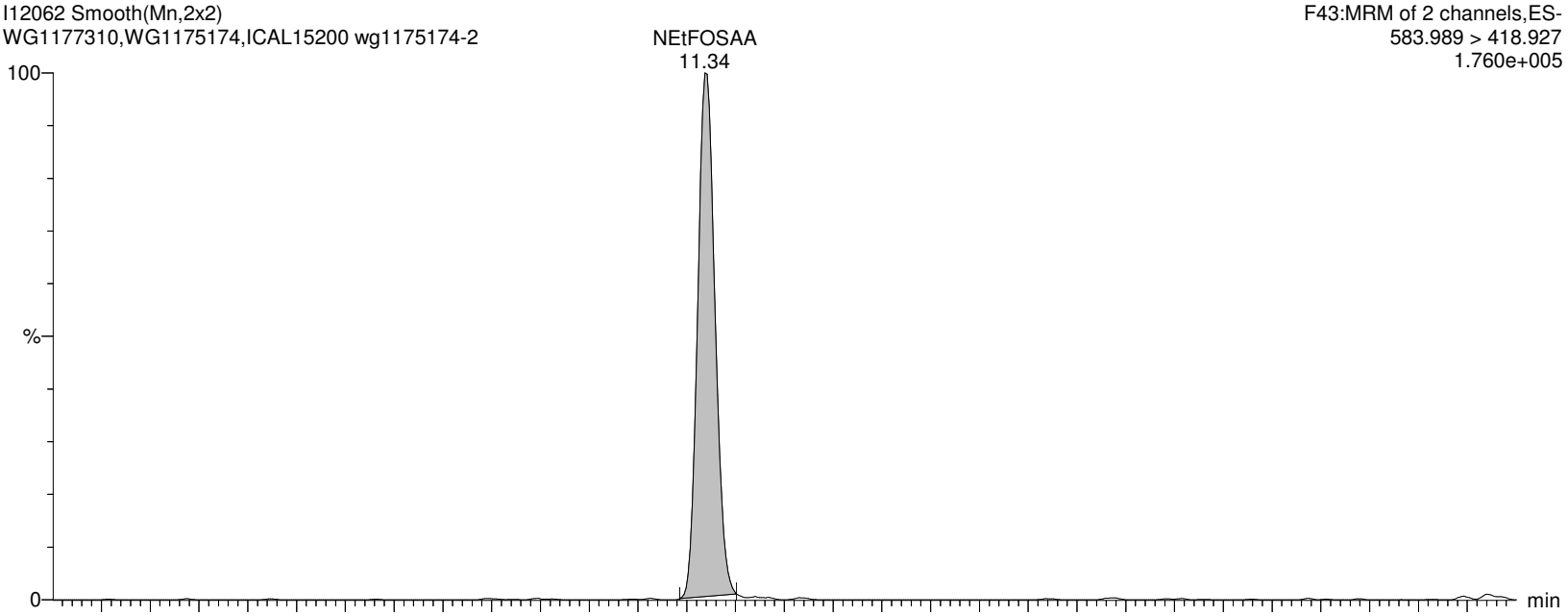

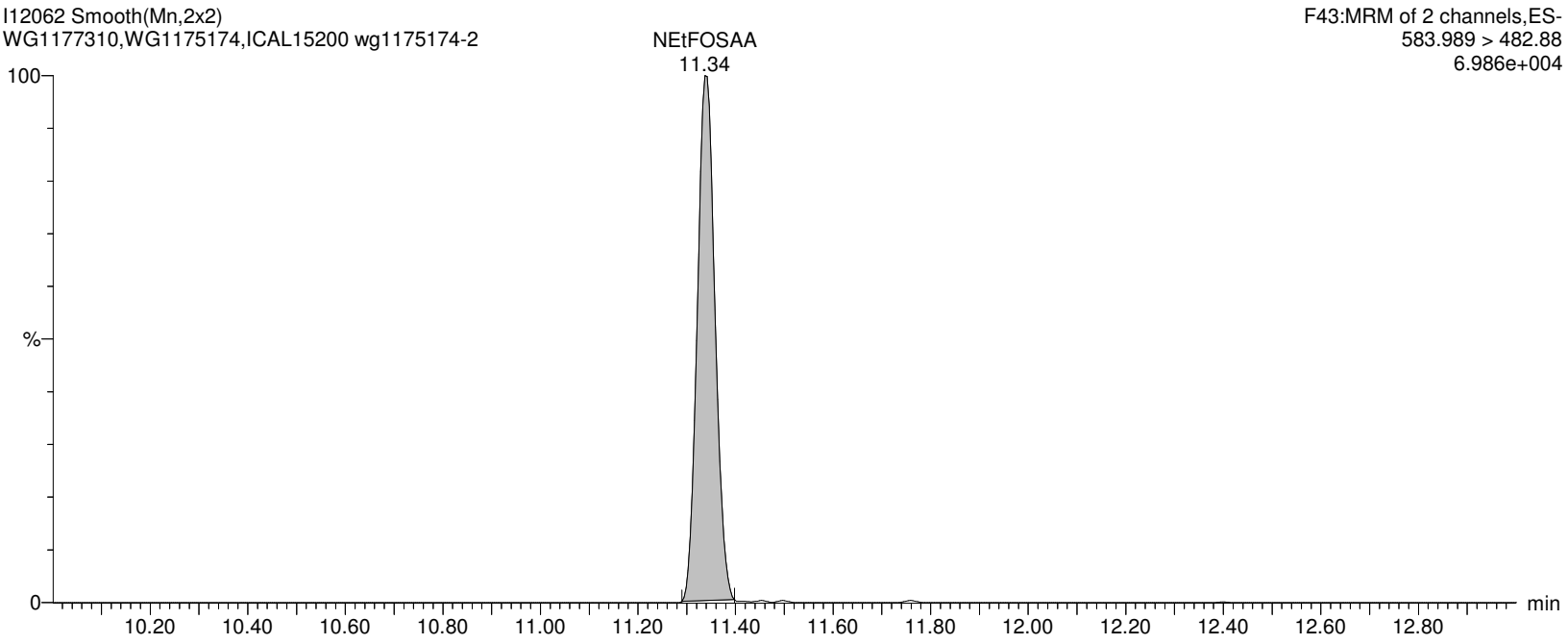

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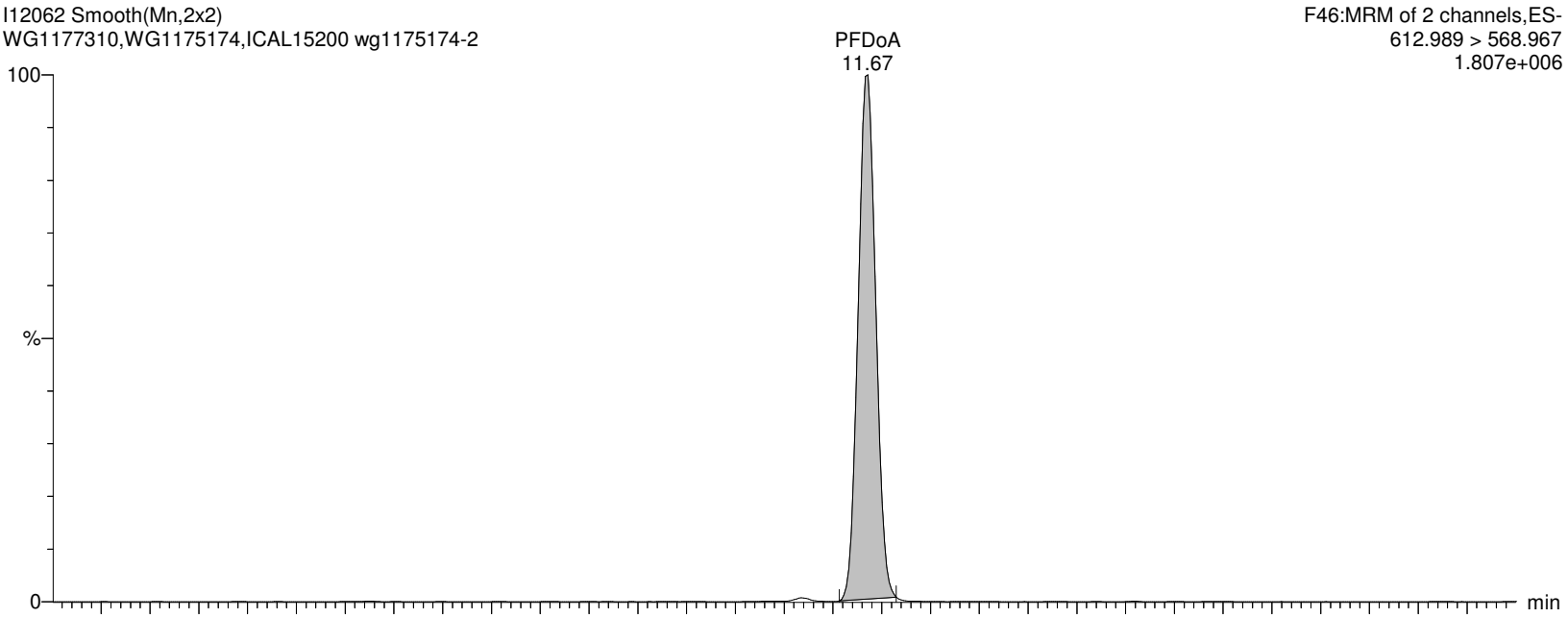

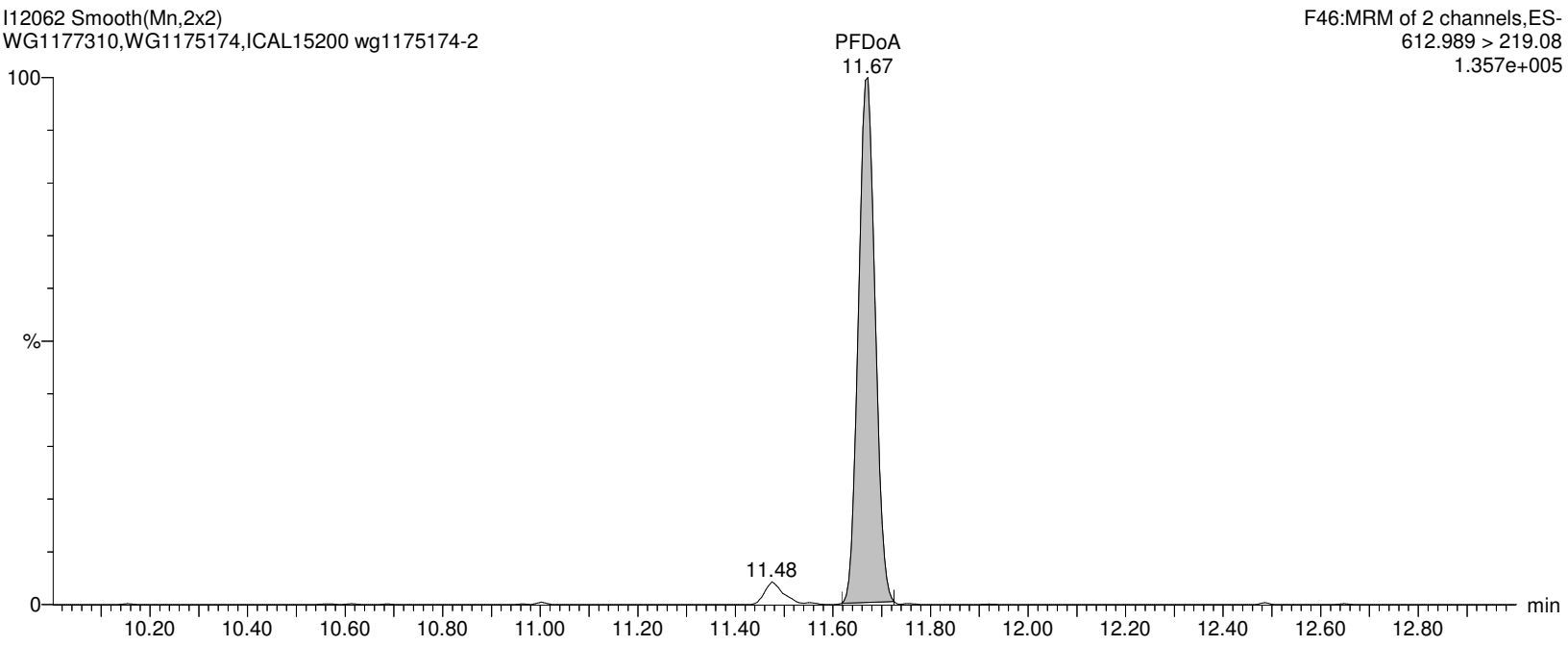

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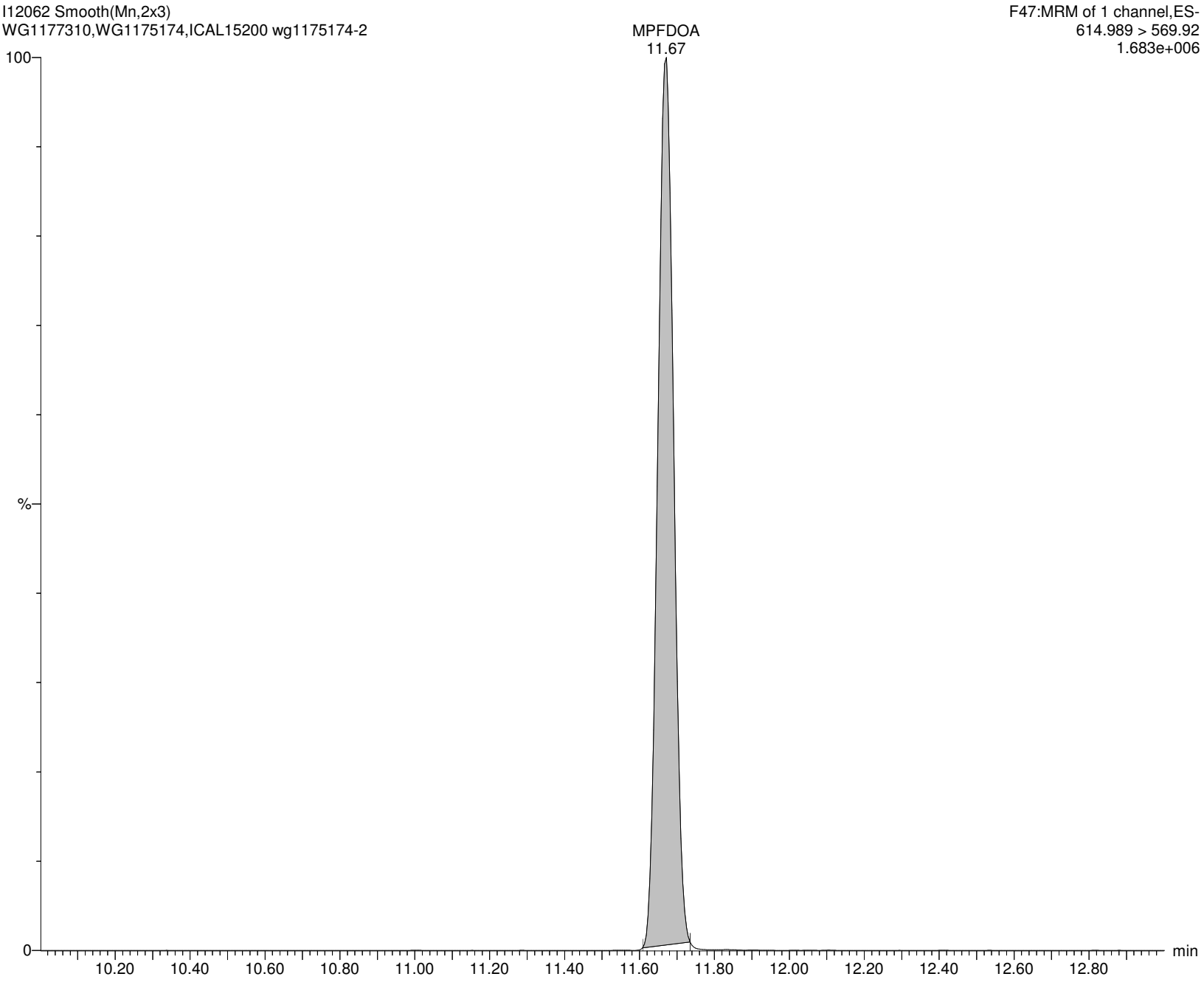

all concentration units in (ng/mL)

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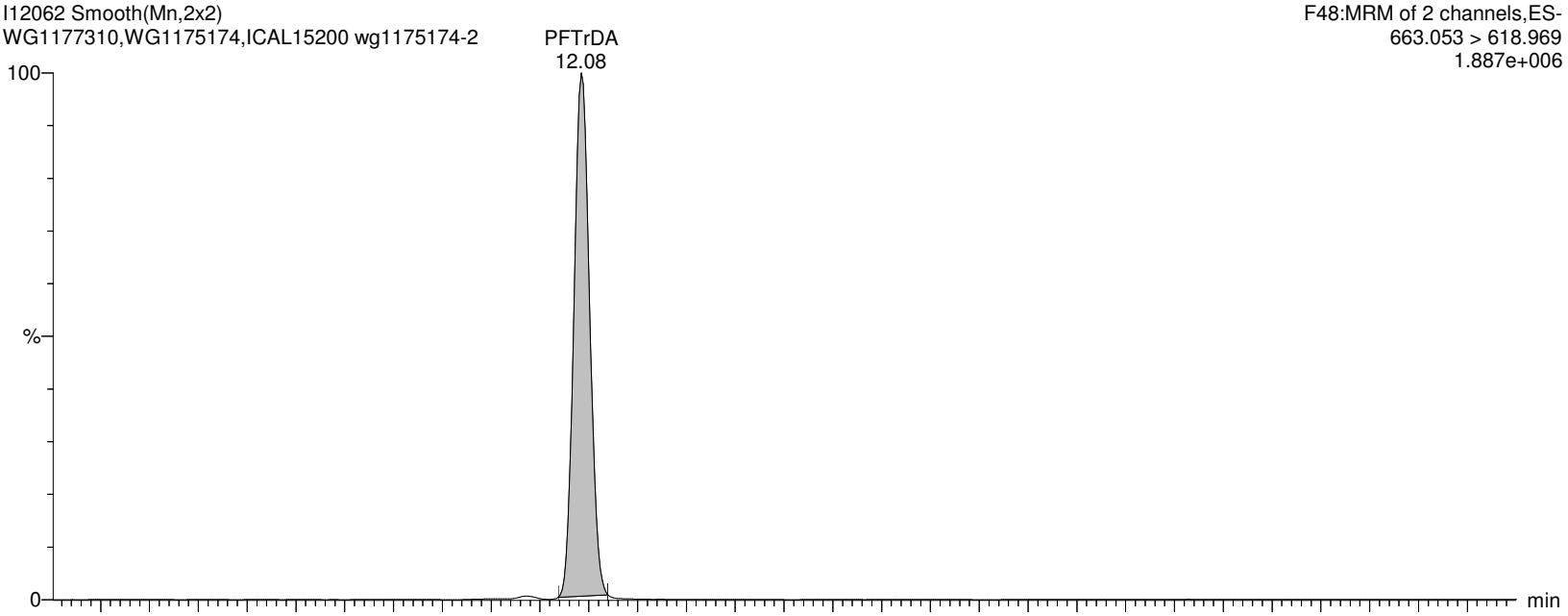

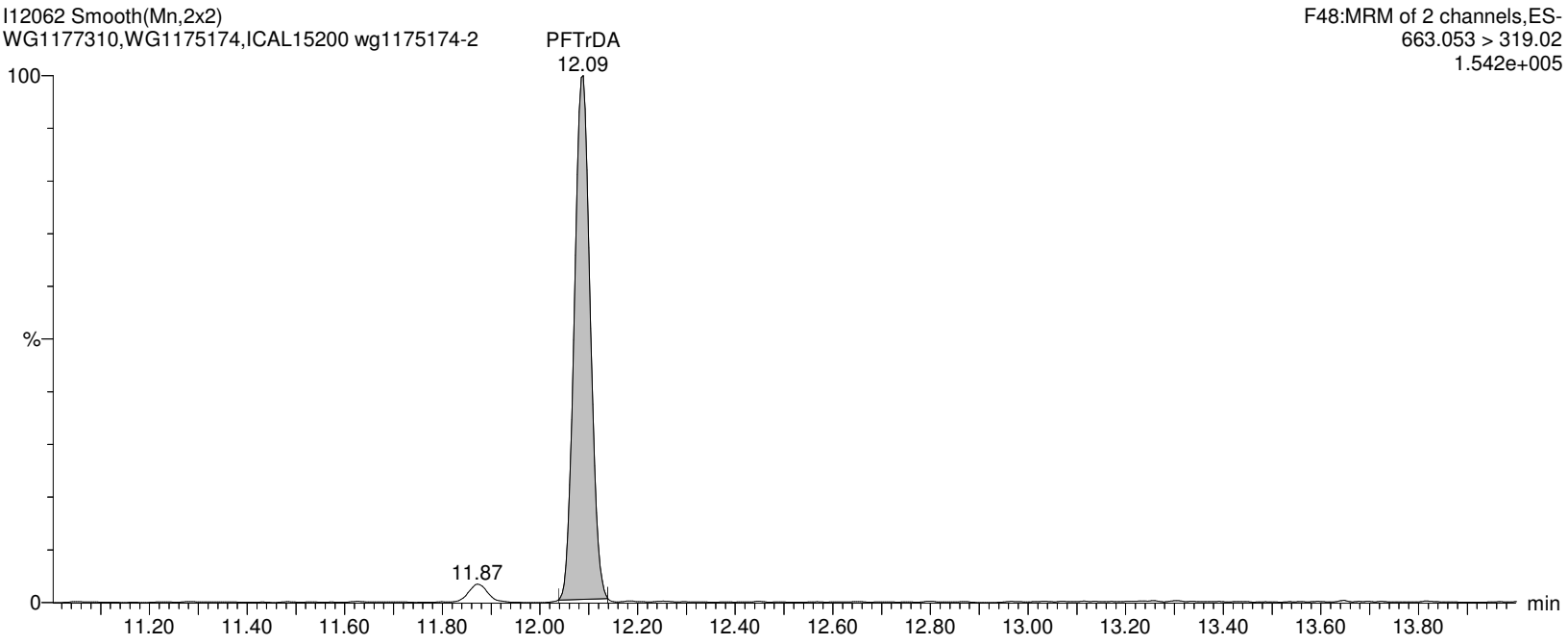

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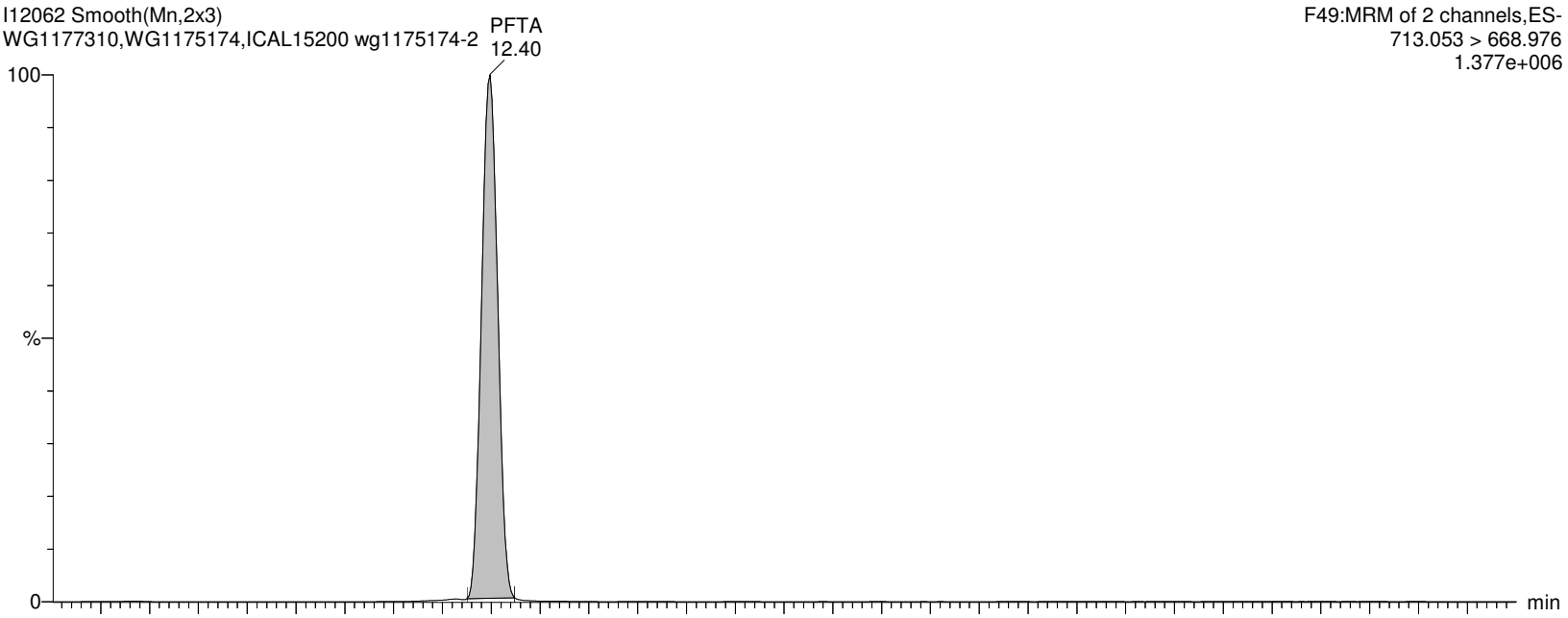

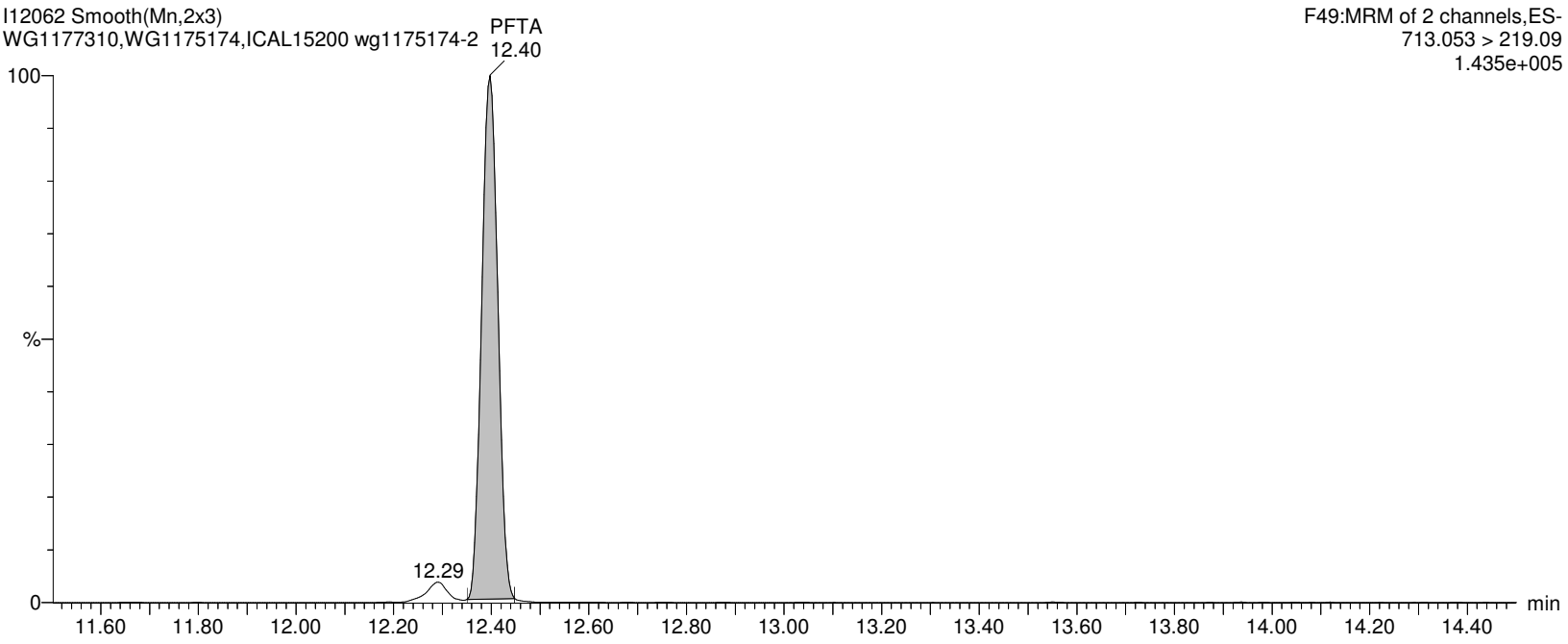

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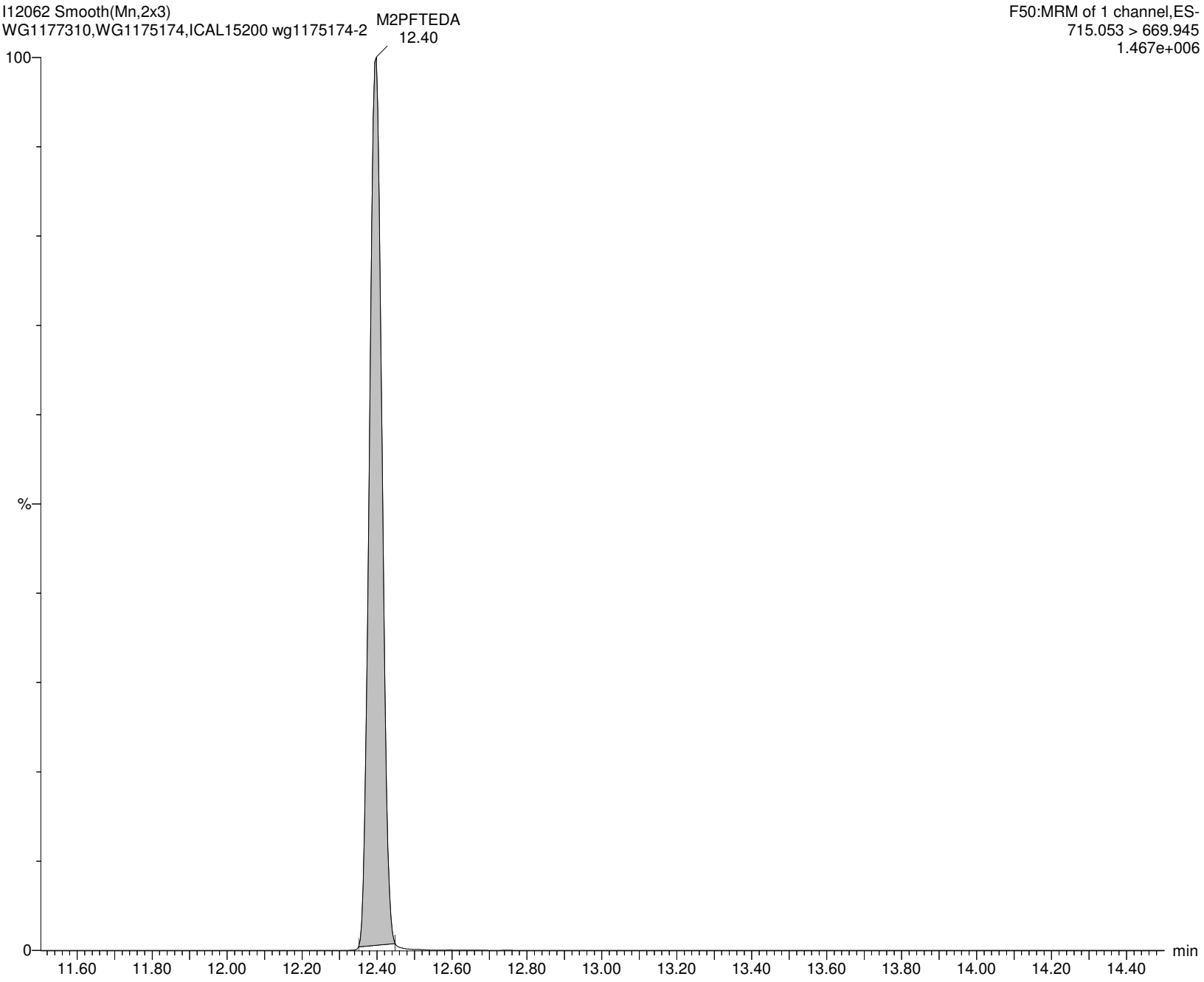

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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:08 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: wg1175174-3
Name: I12063
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	61533		10.264		na	102.6
2	M3PFBA	INT STD	2.16	215.926 > 172.122	57135		6.172		na	61.7
3	MPFBA	INT STD	2.15	216.926 > 172.137	68581		12.636		na	126.4
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	78720		10.536		na	105.4
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	79272		11.319		na	113.2
6	PFBS	375-73-5	5.80	298.989 > 80.295	14773		11.727		na	132.5
7	M3PFBS	INT STD	5.80	301.989 > 80.254	14209		10.549		na	105.5
8	4:2FTS	757124-72-4	6.98	326.926 > 306.957	7870		9.631	1.95	YES	103.0
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8274		9.903		na	99.0
10	PFHxA	307-24-4	7.06	312.989 > 269.028	93414		10.797	19.48	NO	108.0
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	89154		11.420		na	114.2
12	PFPeS	2706-91-4	7.38	348.926 > 80.251	15585		9.189	2.09	NO	97.8
13	PFHpA	375-85-9	8.34	362.926 > 319.014	109469		9.696	5.16	NO	97.0
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	114687		12.494		na	124.9
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	1878		1.177	1.84	NO	69.3
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	12181		8.812	1.41	NO	119.1
17	PFHxS	355-46-4		398.926 > 80.295	14059		9.990		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	9803		13.103		na	131.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	104848		9.991	9.32	NO	99.9
21	M2PFOA	INT STD	9.28	415.032 > 369.968	108364		5.739		na	57.4
22	PFOA	335-67-1		412.989 > 368.9	104848		9.991		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	107569		12.309		na	123.1
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	7950		10.791		na	113.6
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	7562		10.903		na	109.0
26	PFHpS	375-92-8	9.37	448.926 > 80.257	7682		10.687	0.94	YES	112.5
27	PFNA	375-95-1	10.03	462.989 > 418.931	87778		10.185	4.61	NO	101.8
28	M9PFNA	INT STD	10.03	472.053 > 426.947	103188		11.839		na	118.4
29	br-PFOS	1763-23-1	9.84	498.989 > 80.294	3553		2.088	4.64	YES	104.4
30	L-PFOS	1763-23-1	10.08	498.989 > 80.294	8034		6.625	1.77	YES	90.8
31	PFOS	1763-23-1		498.989 > 80.294	11587		8.714		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	10805		6.670		na	66.7
33	M8PFOS	INT STD	10.08	507.053 > 80.294	11609		11.521		na	115.2
34	PFDA	335-76-2	10.66	513.053 > 468.906	85911		10.885	6.30	NO	108.9
35	M2PFDA	INT STD	10.66	515.053 > 469.934	88195		5.933		na	59.3
36	M6PFDA	INT STD	10.66	519.053 > 473.931	88975		11.173		na	111.7
37	8:2FTS	39108-34-4	10.65	526.989 > 506.946	5261		8.494		na	88.5
38	M2-8:2FTS	INT STD	10.65	529.053 > 508.945	5123		12.578		na	125.8
39	PFNS	68259-12-1	10.69	548.989 > 80.249	9257		11.091	1.24	NO	115.5

all concentration units in (ng/mL)

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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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ID: wg1175174-3
Name: I12063
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	8316		9.687		na	96.9
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	8743		10.452		na	104.5
42	PFUnA	2058-94-8	11.20	562.989 > 518.903	82406		10.348	7.97	NO	103.5
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	80155		12.026		na	120.3
44	PFDS	335-77-3	11.21	598.926 > 80.314	8503		12.048	1.28	NO	124.8
45	FOSA	754-91-6	11.12	497.989 > 78.245	7377		9.719		na	97.2
46	M8FOSA	INT STD	11.12	506.053 > 78.286	7760		2.731		na	27.3
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	7941		9.589		na	95.9
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	7176		8.838	2.41	YES	88.4
49	PFDoA	307-55-1	11.67	612.989 > 568.967	74551		10.686	13.65	NO	106.9
50	MPFDOA	INT STD	11.68	614.989 > 569.92	74818		9.991		na	99.9
51	PFTrDA	72629-94-8	12.09	663.053 > 618.969	69362		11.823	12.26	NO	118.2
52	PFTA	376-06-7	12.40	713.053 > 668.976	53064		11.032	9.52	NO	110.3
53	M2PFTEDA	INT STD	12.40	715.053 > 669.945	57285		10.327		na	103.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:08 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181108_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181108_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

Name: I12063
ID: wg1175174-3
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,8
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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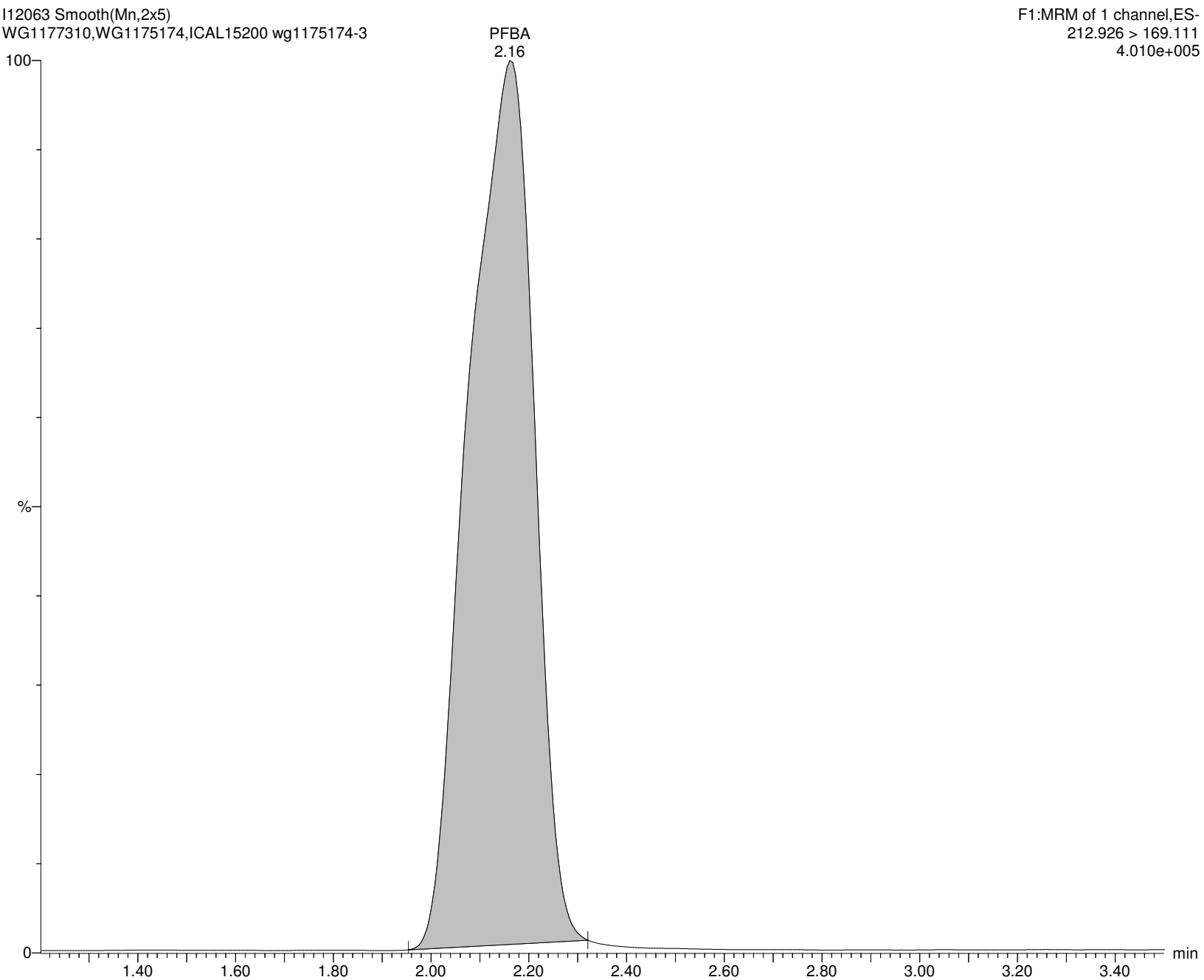

all concentration units in (ng/mL)

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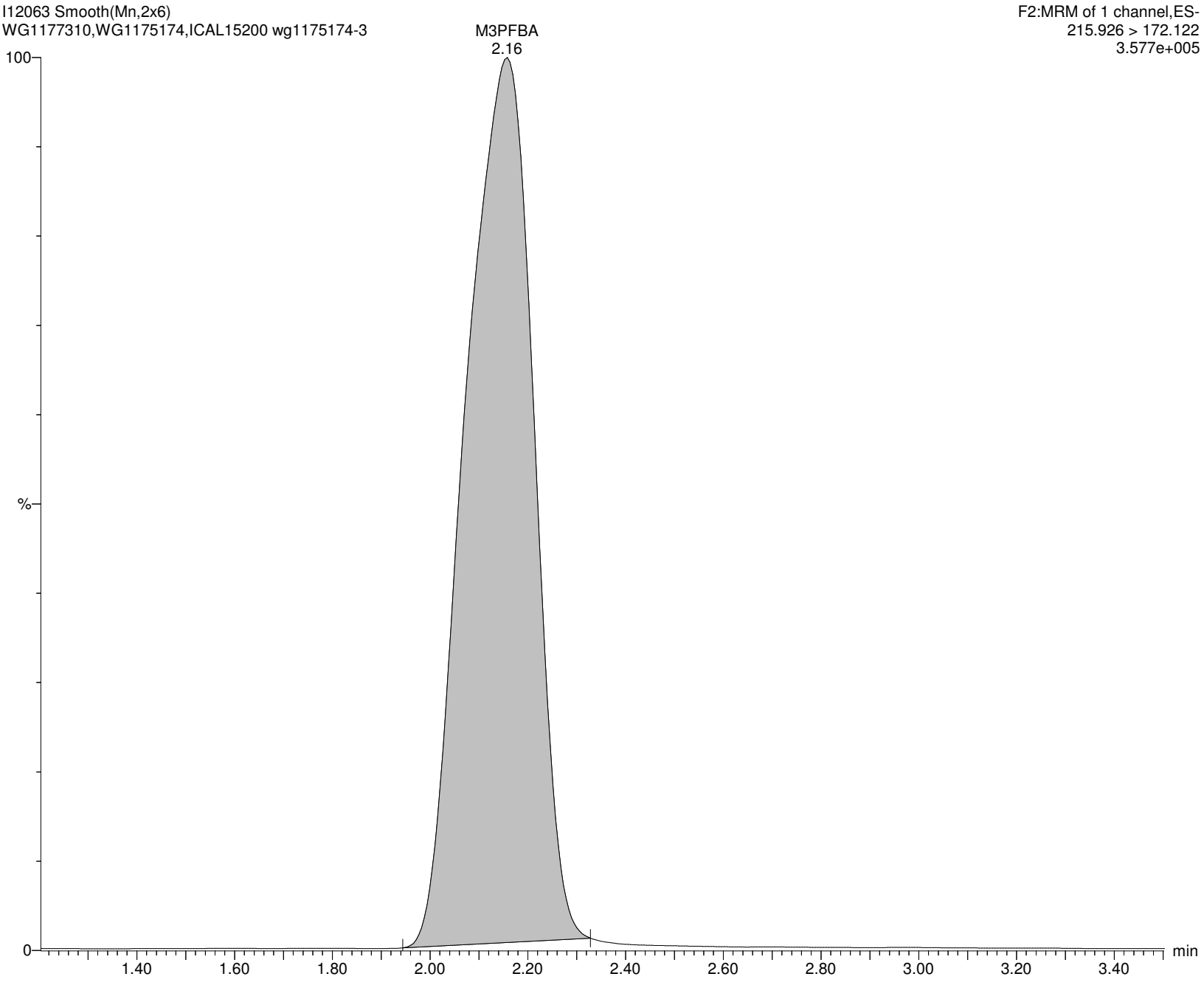

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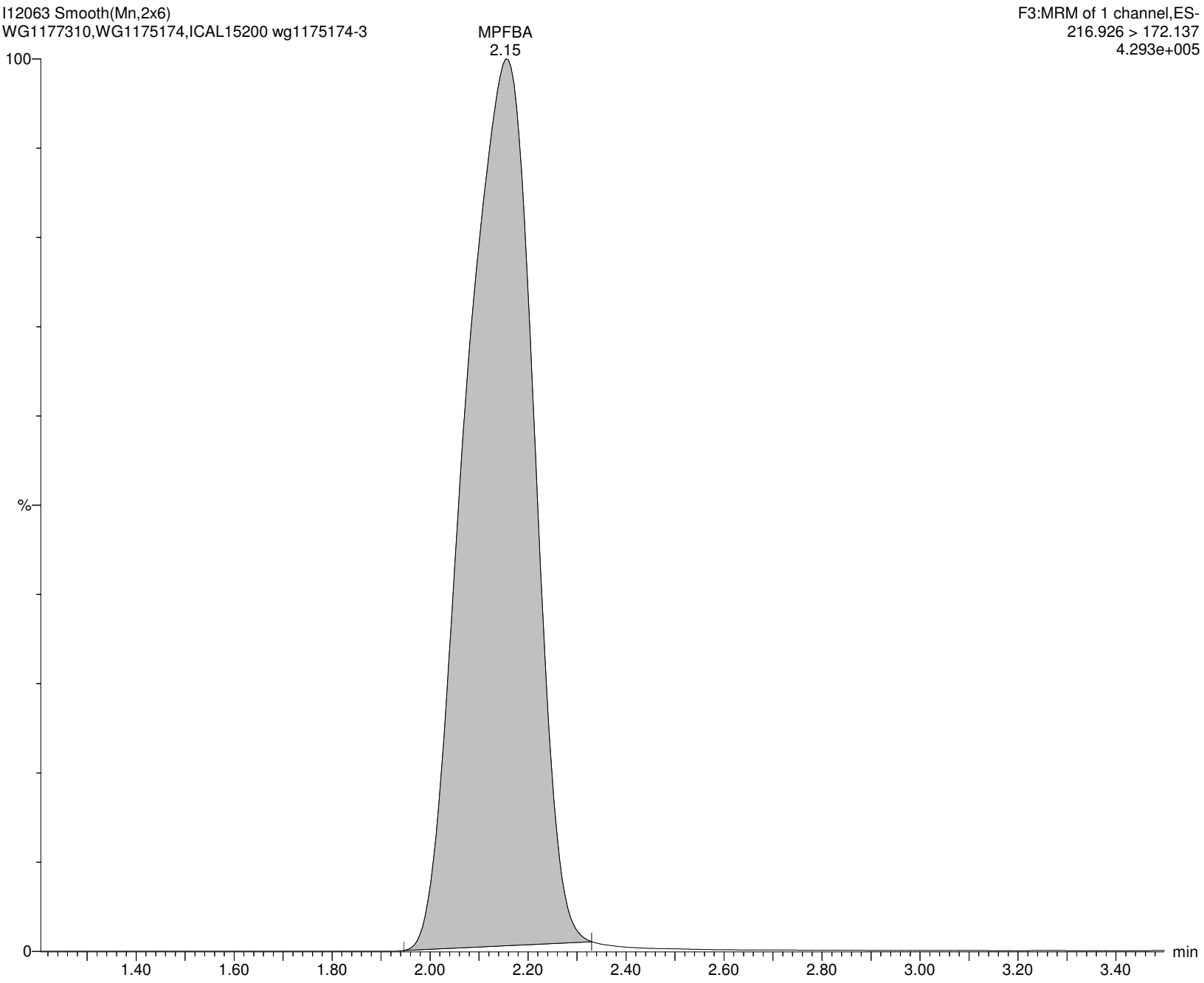

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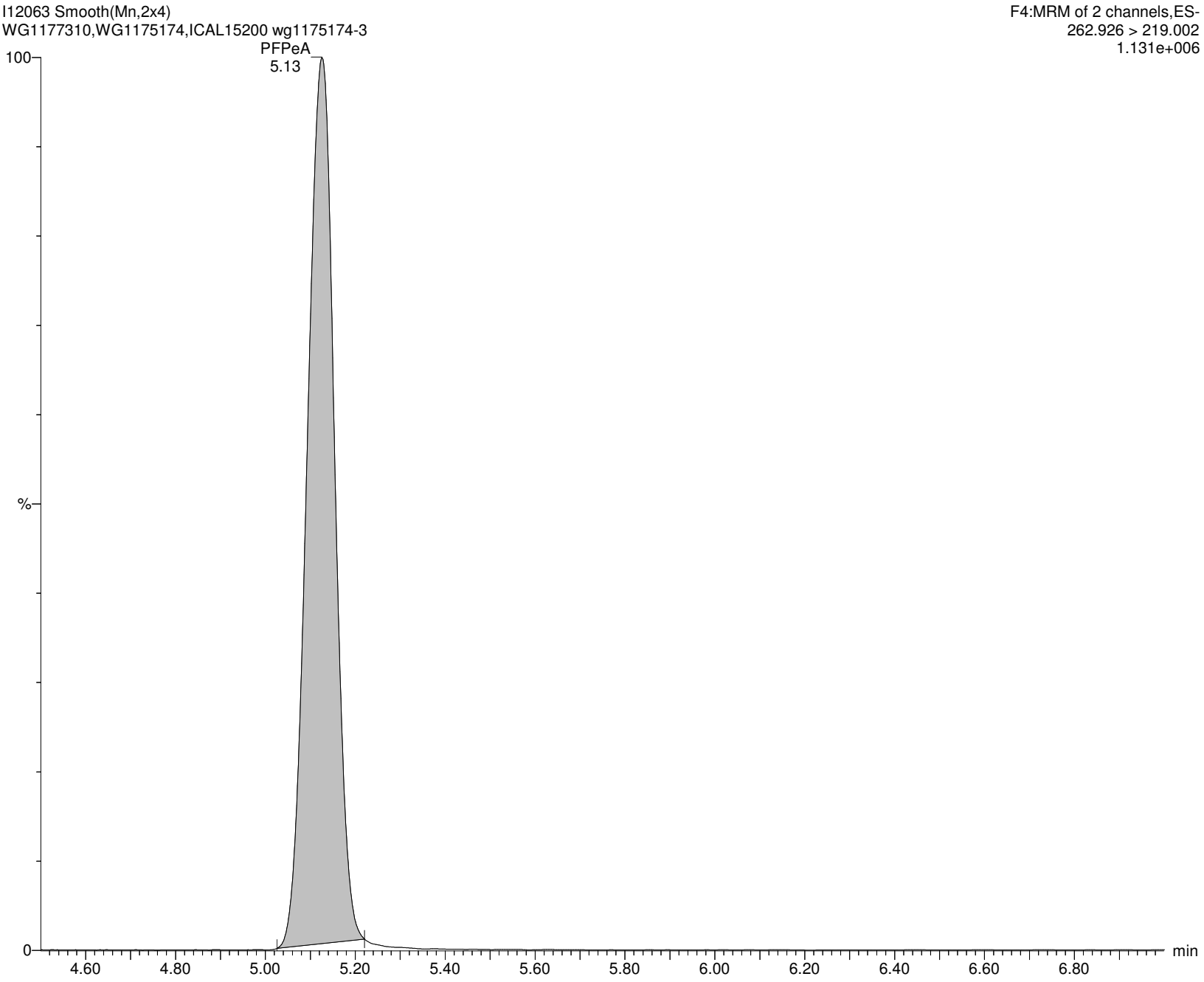

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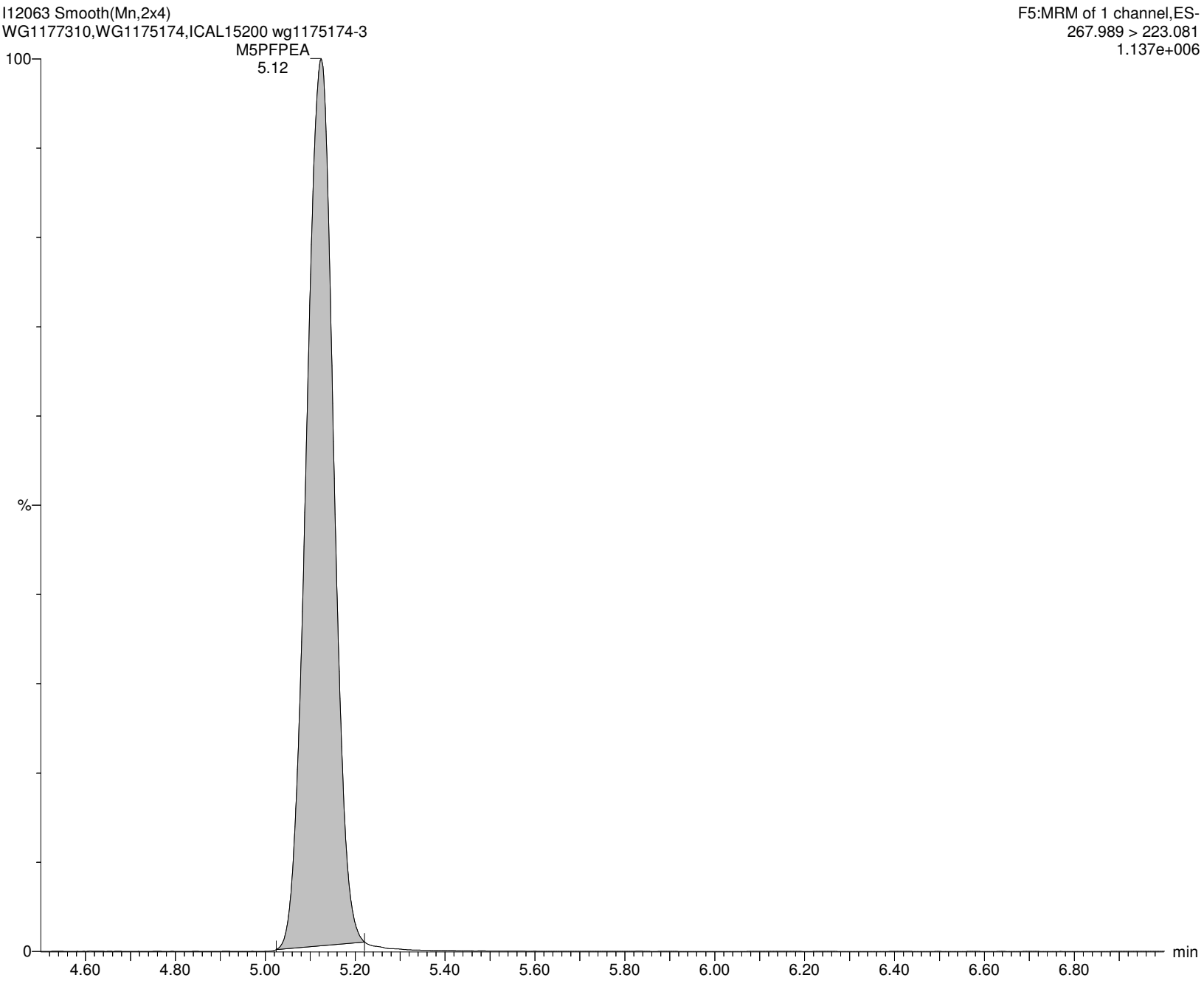

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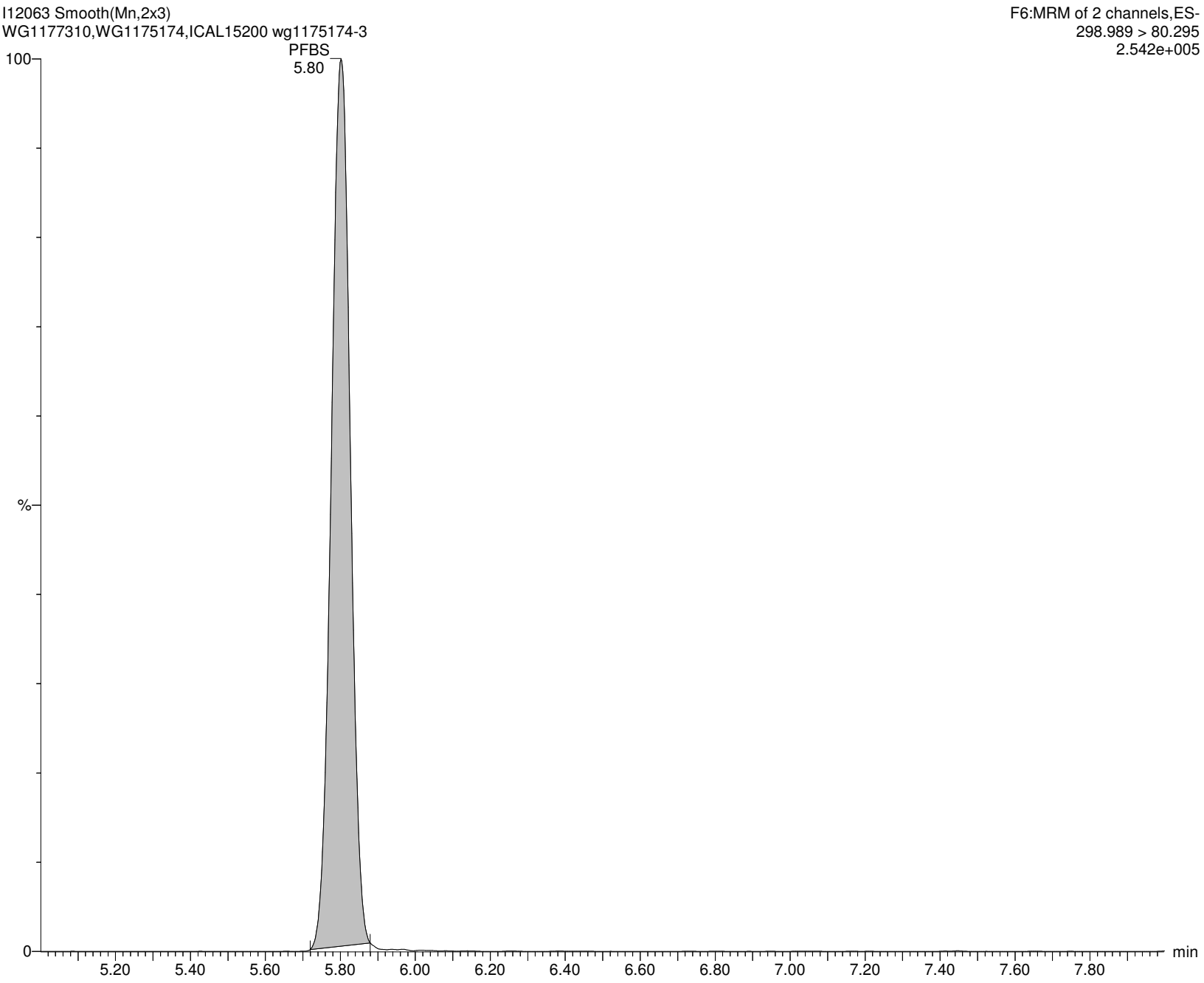

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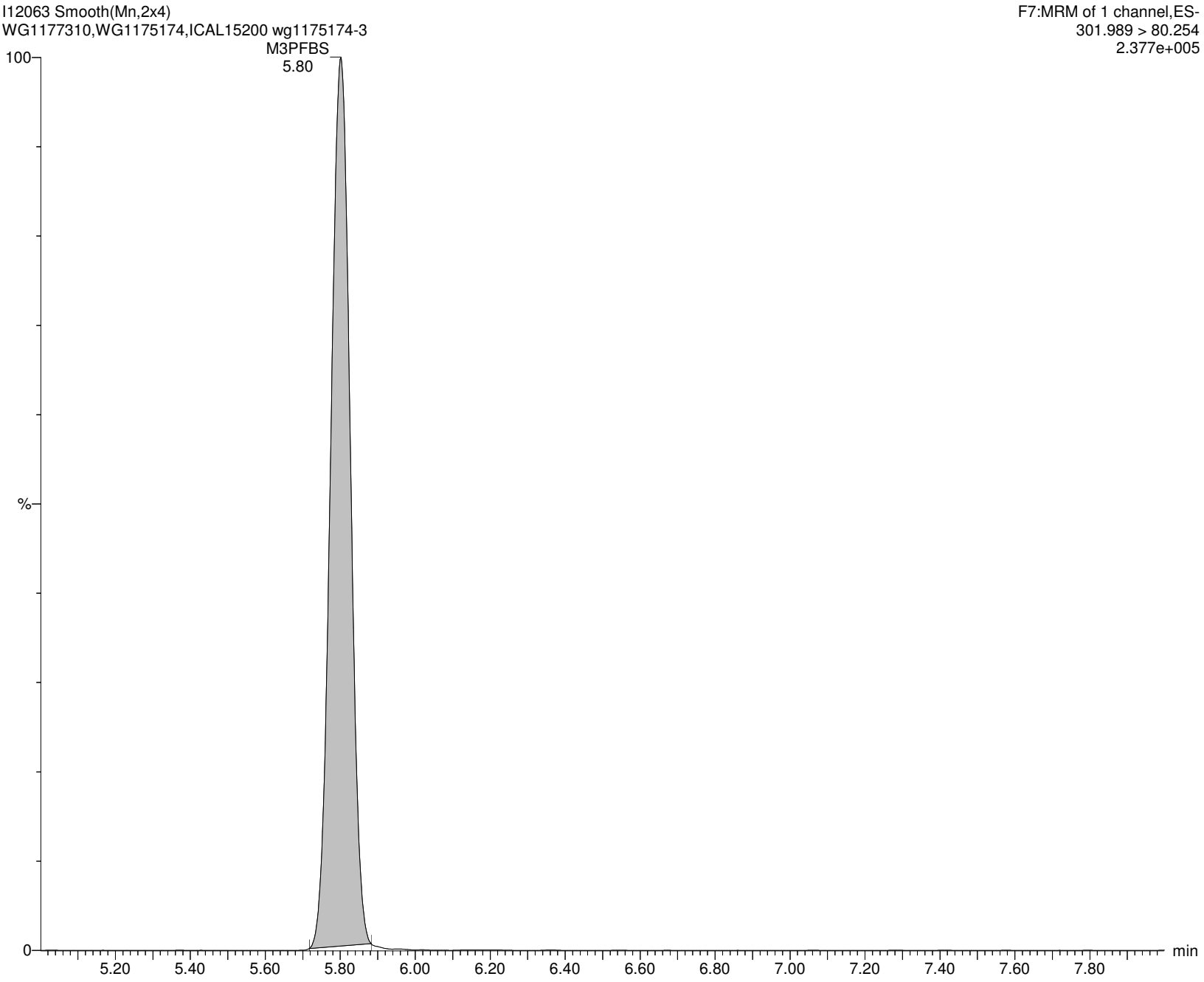

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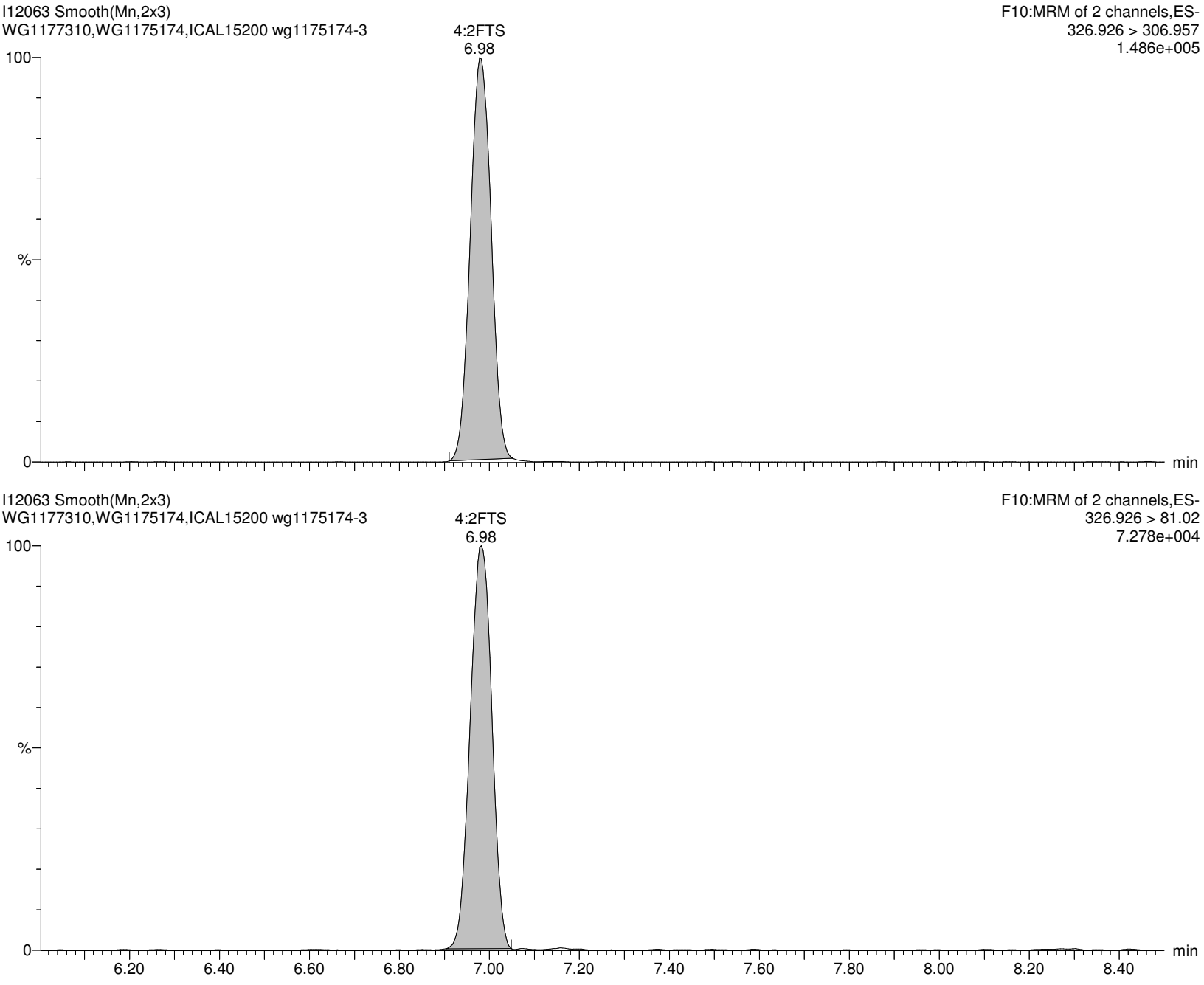
4:2FTS



all concentration units in (ng/mL)

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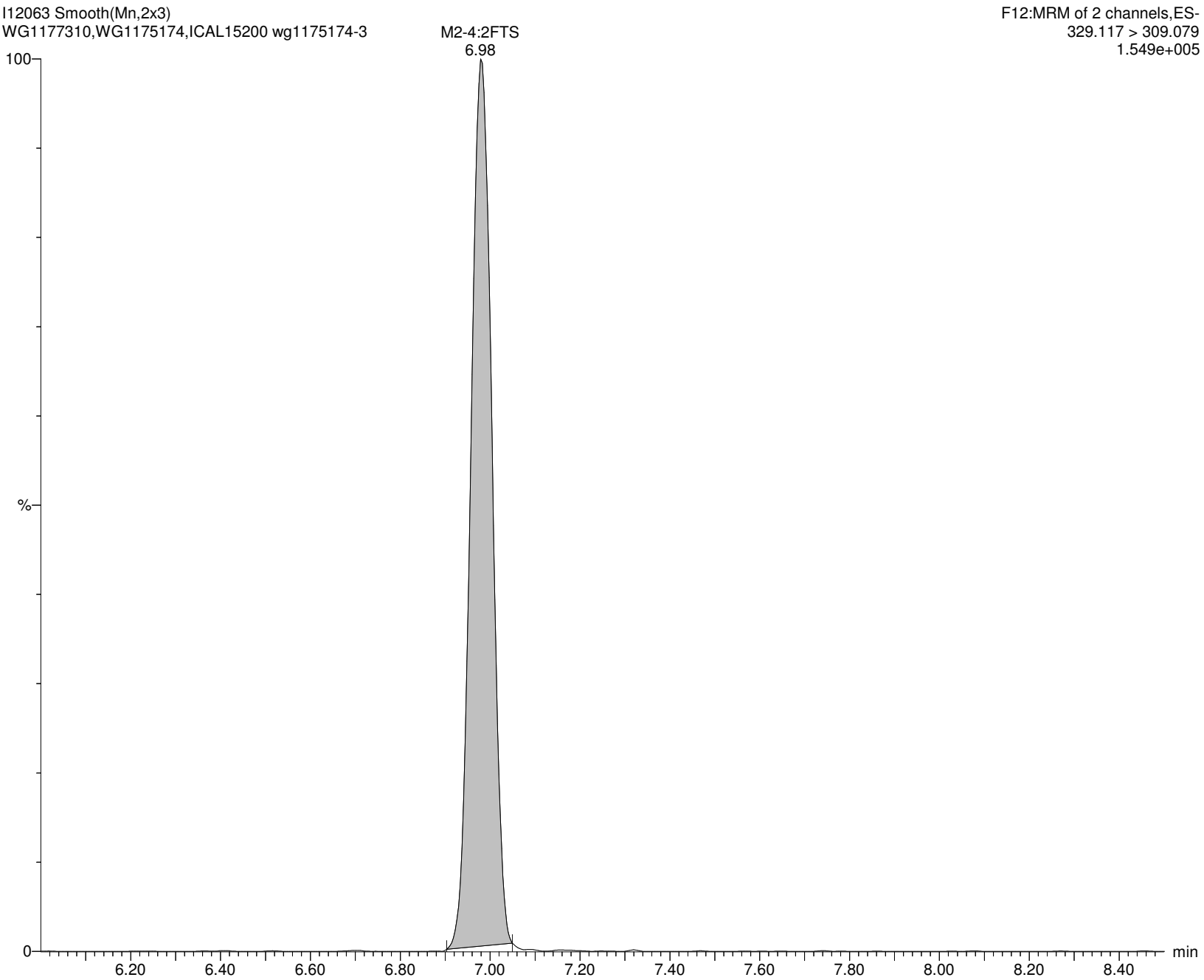

all concentration units in (ng/mL)

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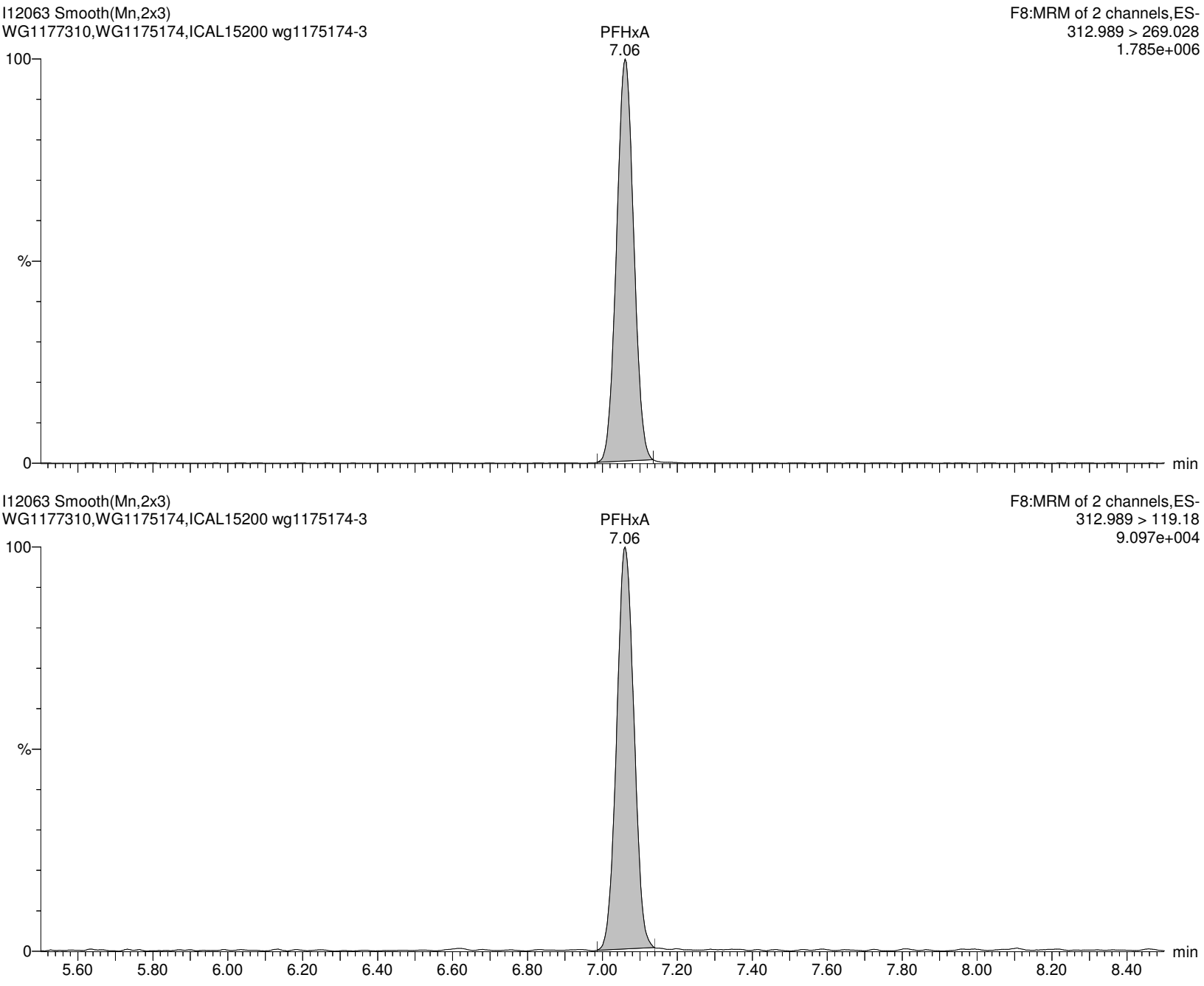

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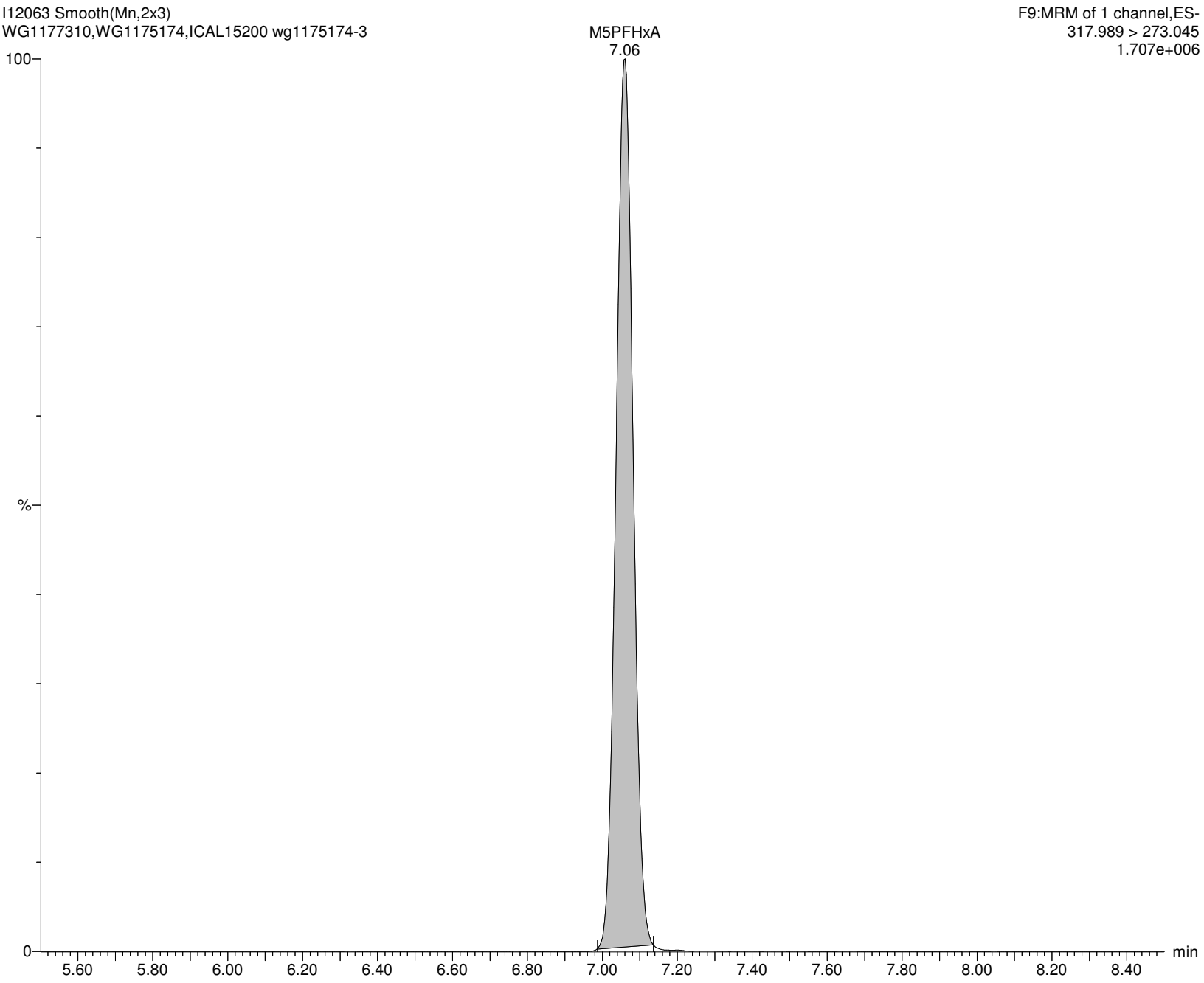

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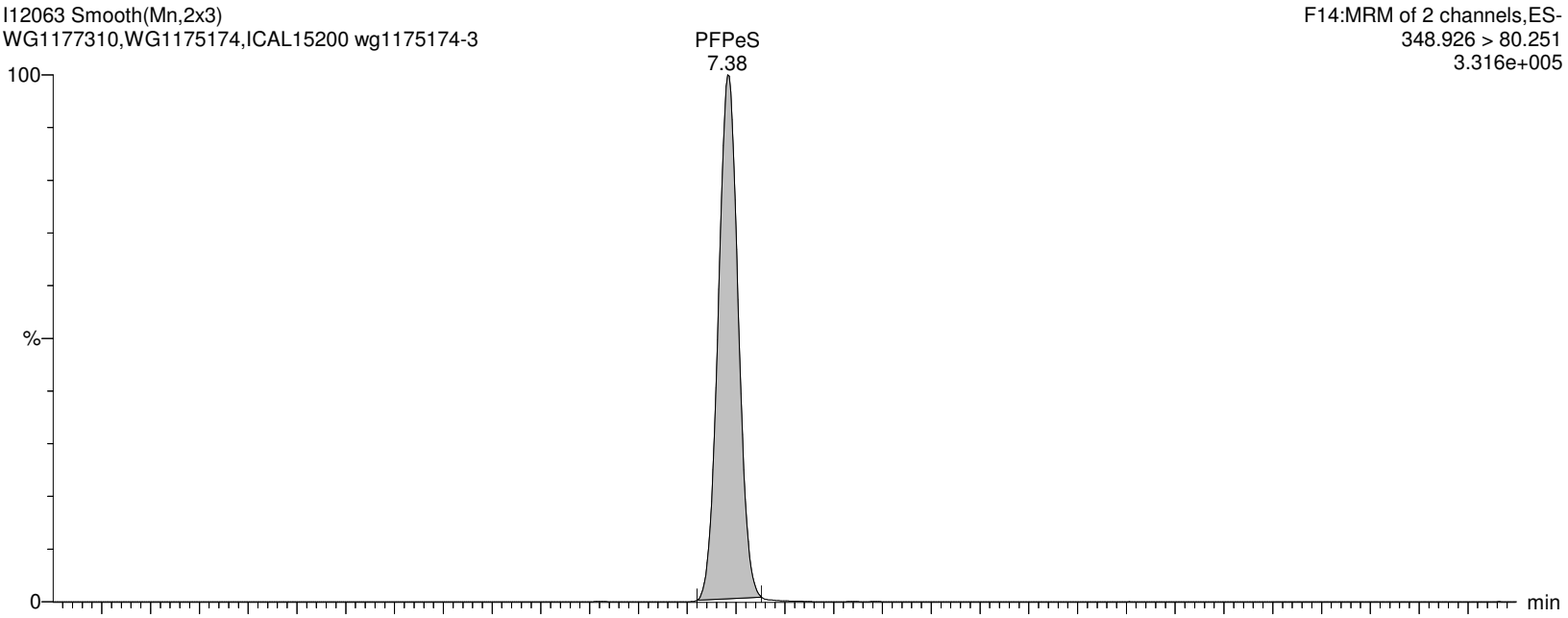

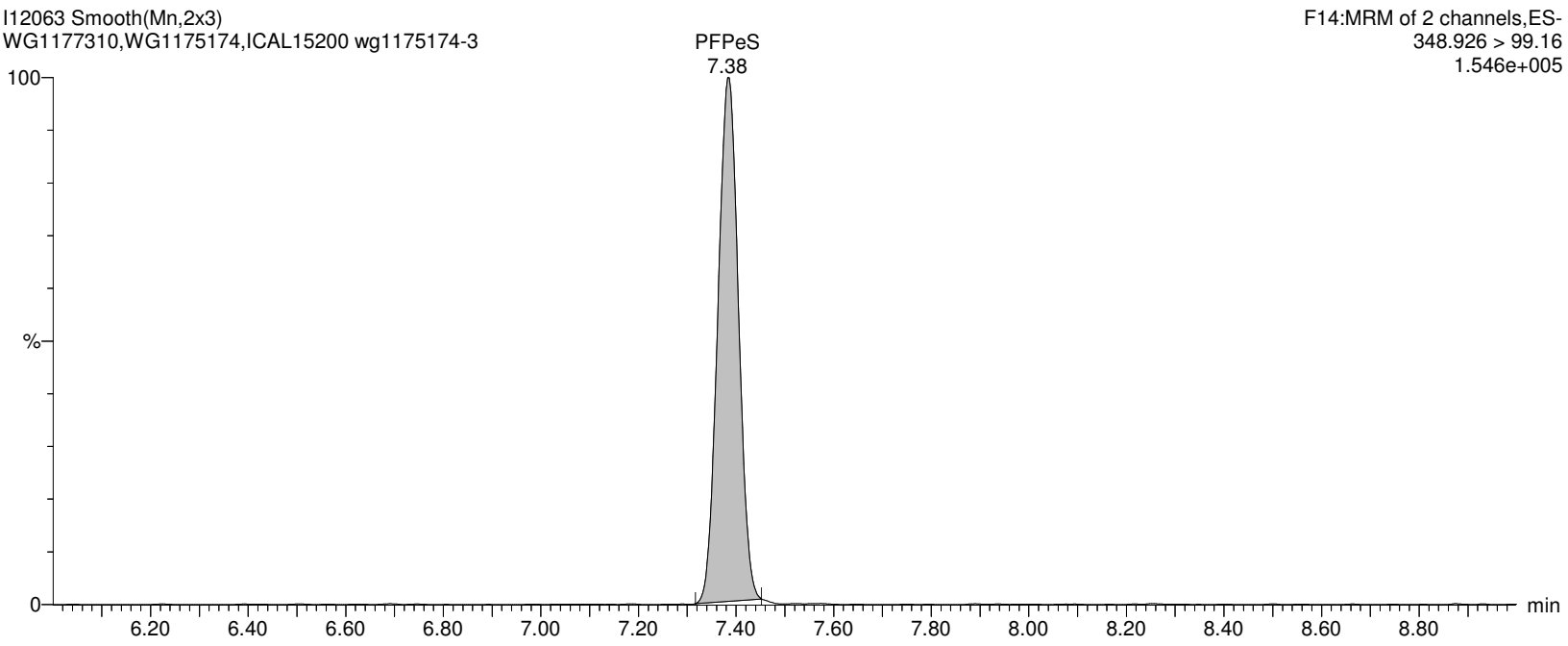

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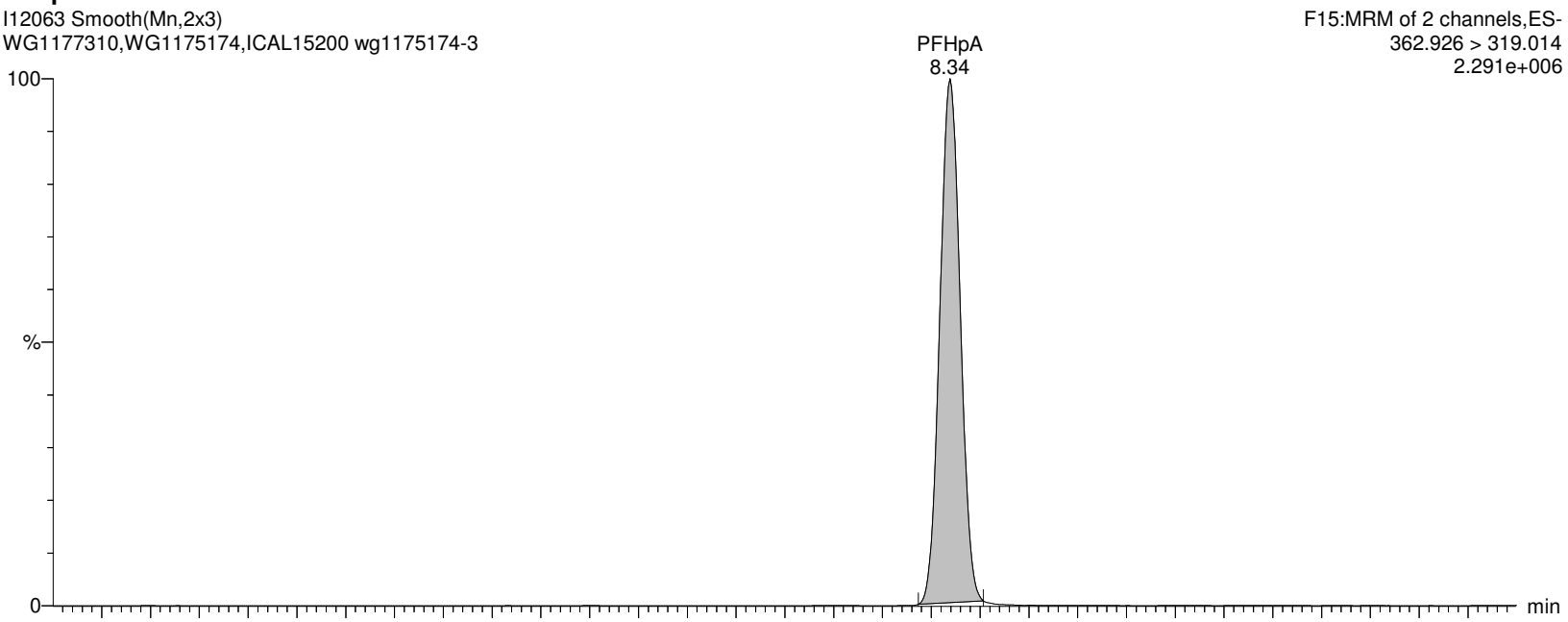

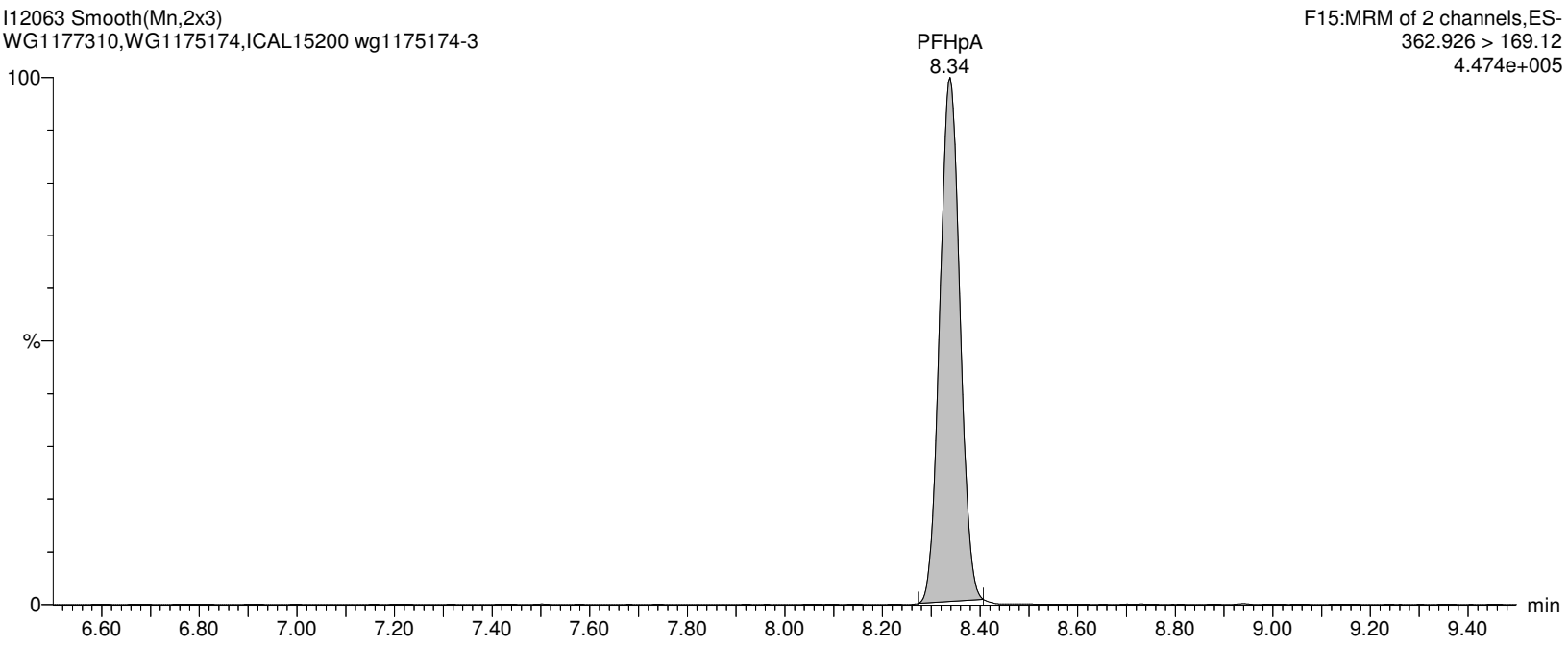

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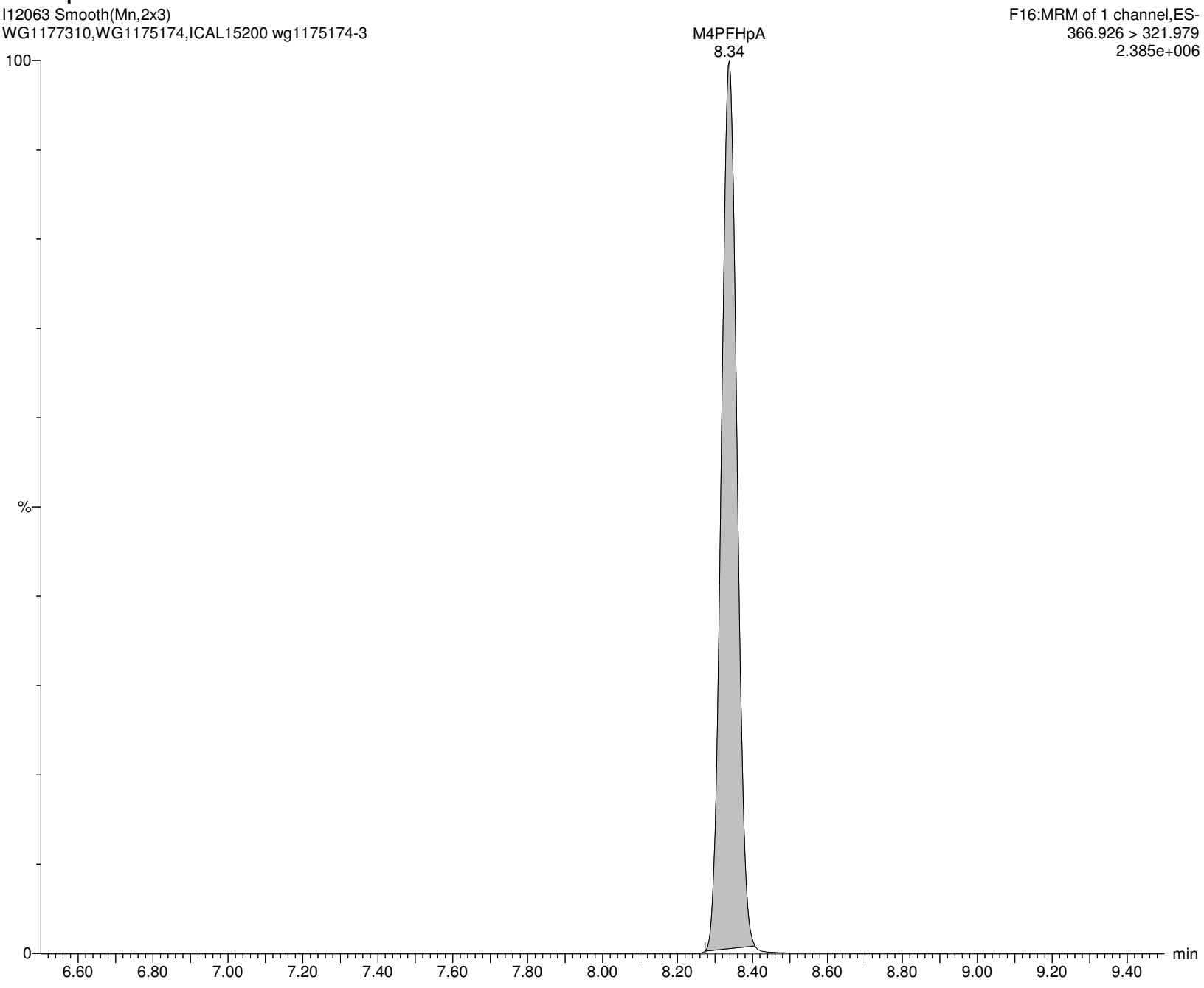

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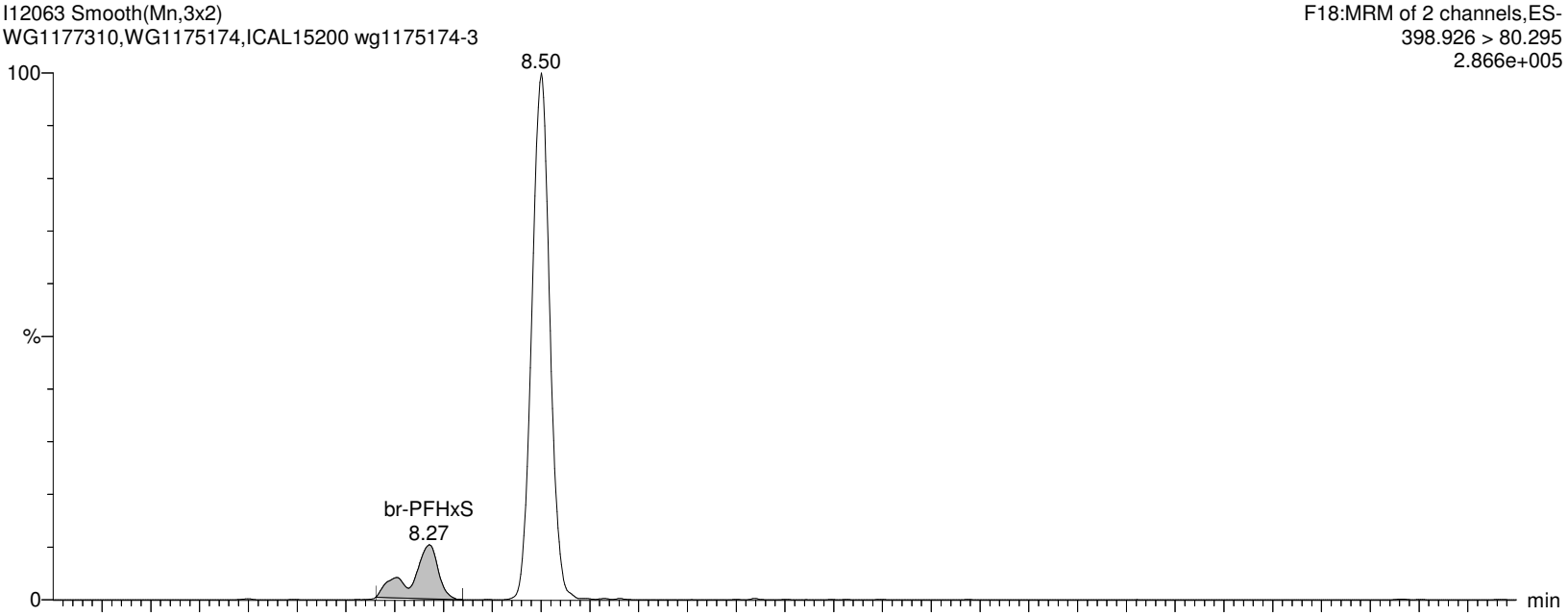

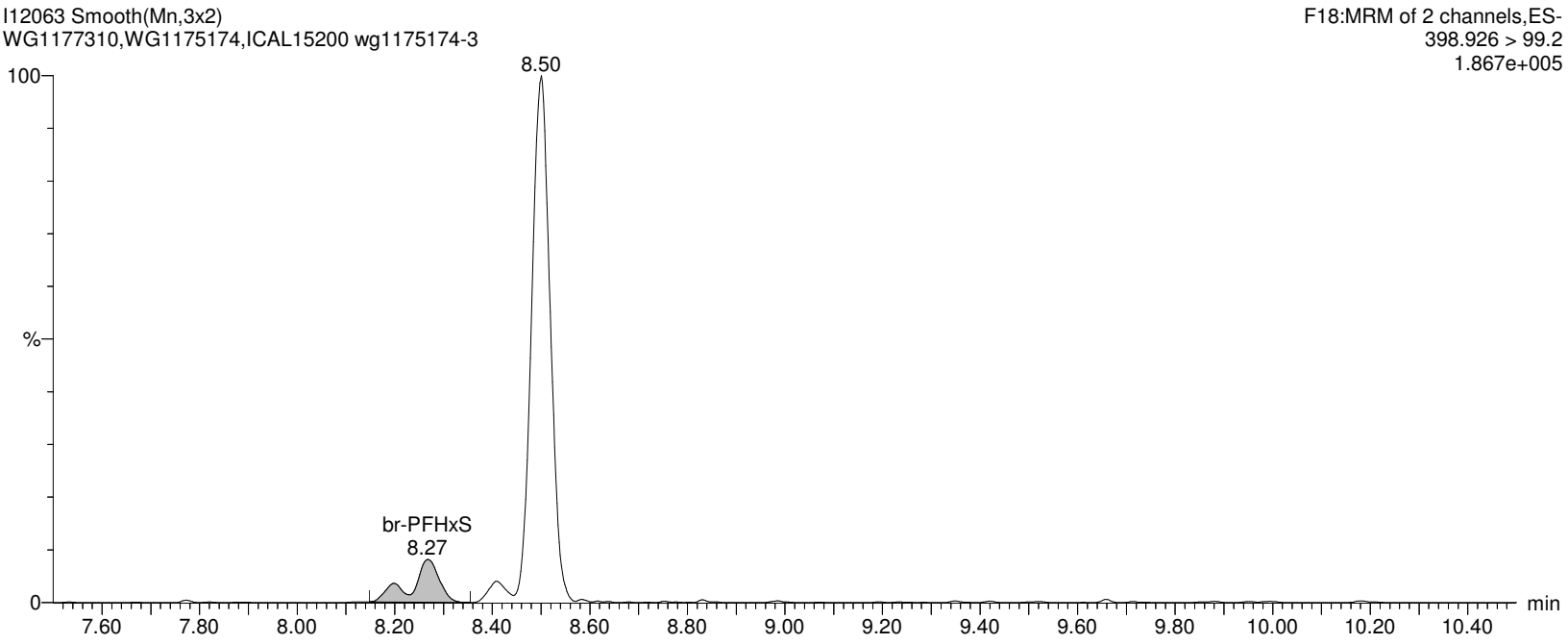

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Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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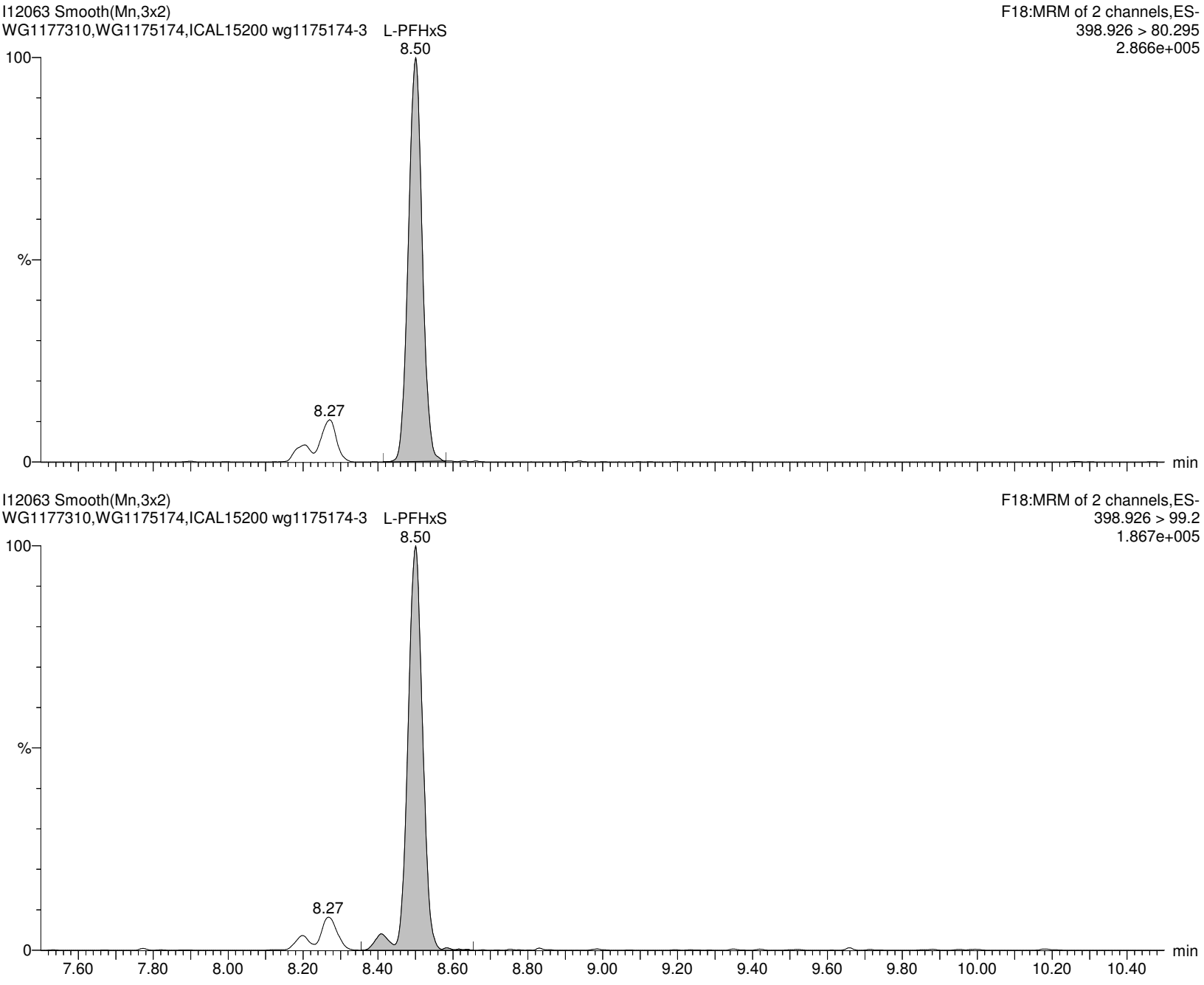

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181108_537ISO.PRO\Data\wg1177310B.qld
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:08 Eastern Standard Time

Name: I12063
ID: wg1175174-3
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,8
Instrument: XEVO-TQSmicro#QEA0276
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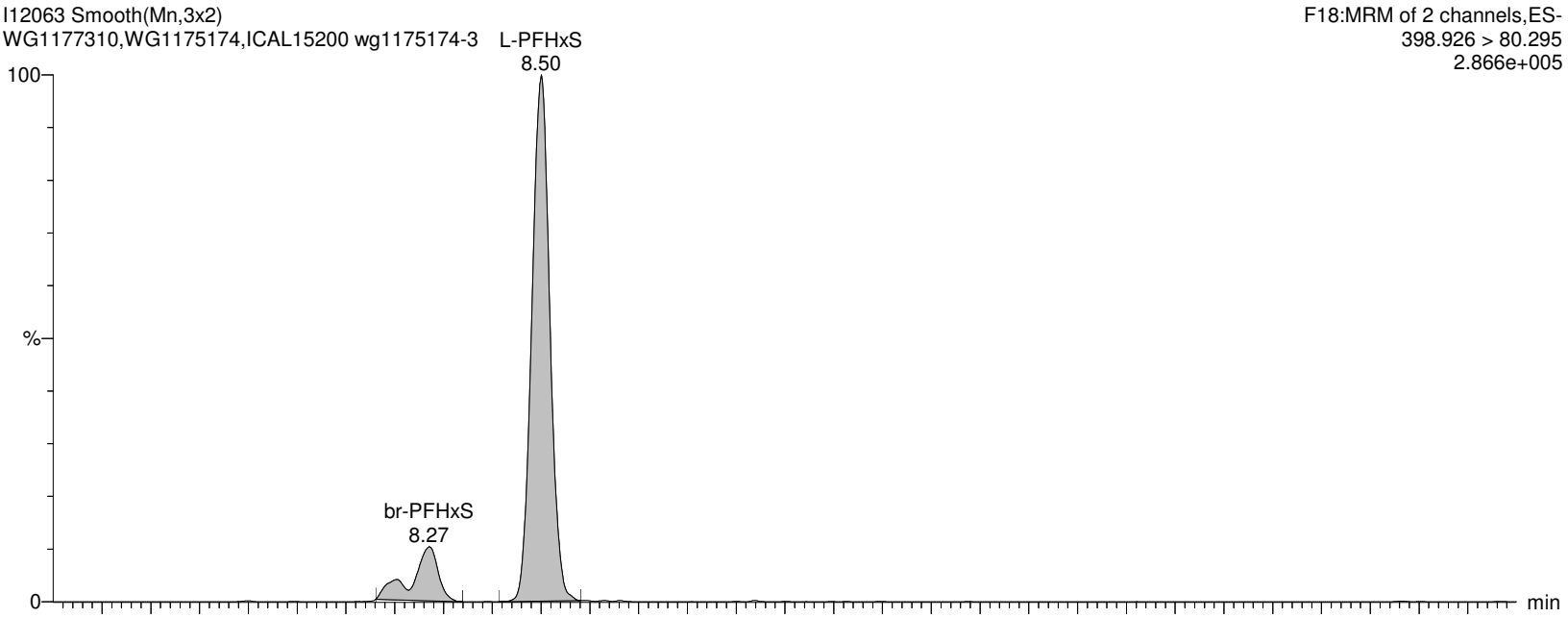

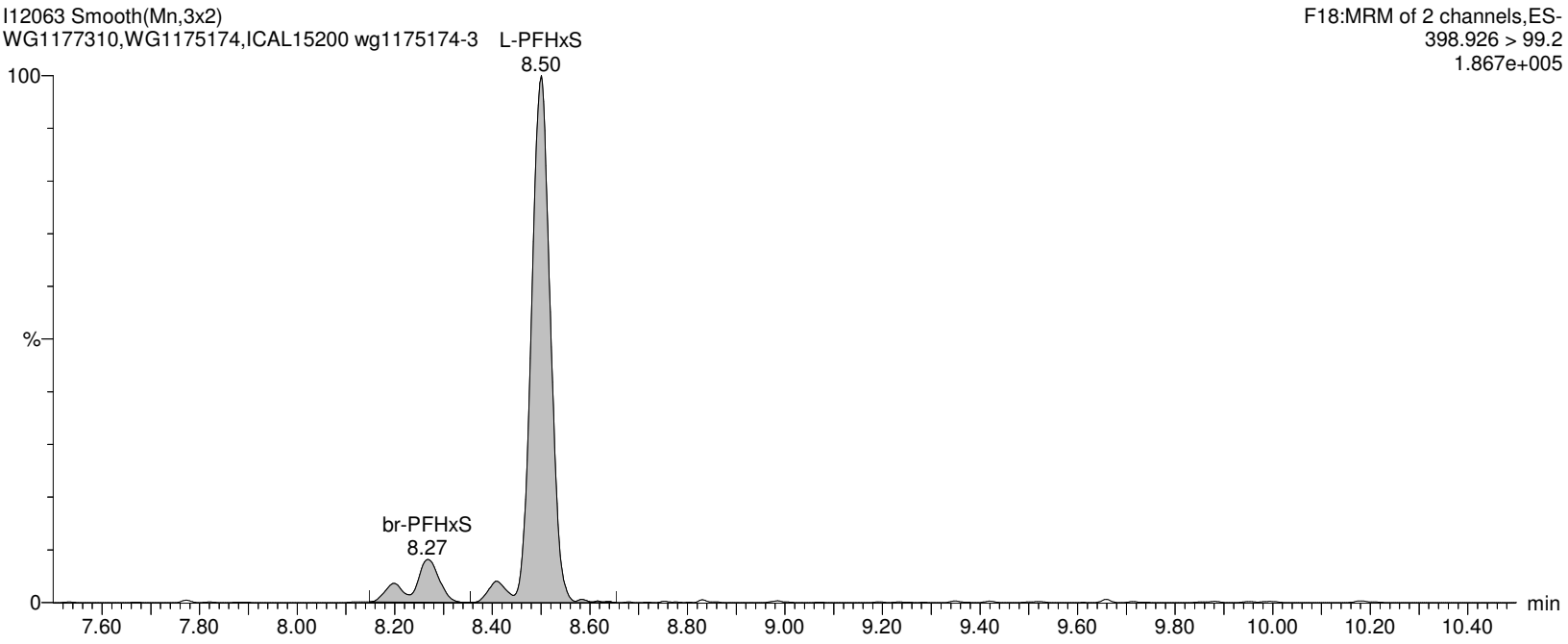

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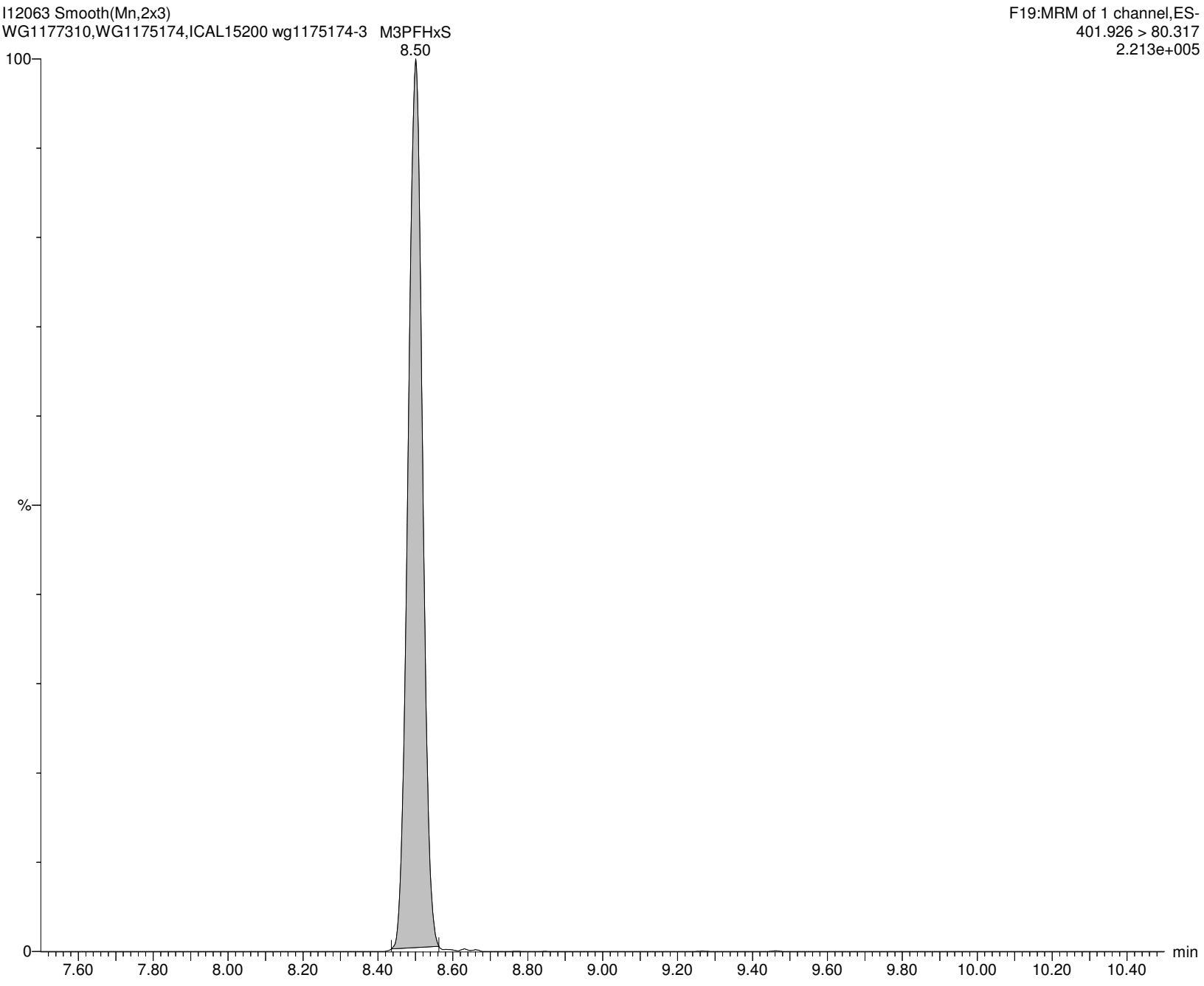

all concentration units in (ng/mL)

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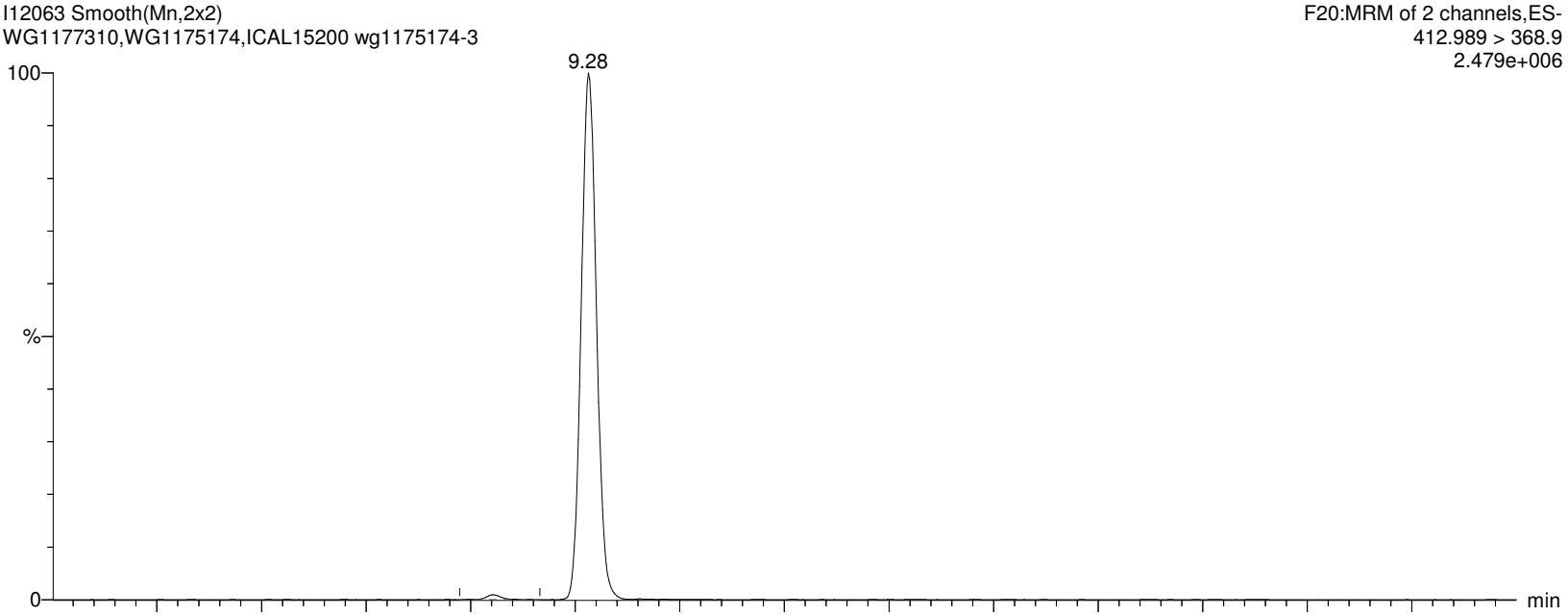

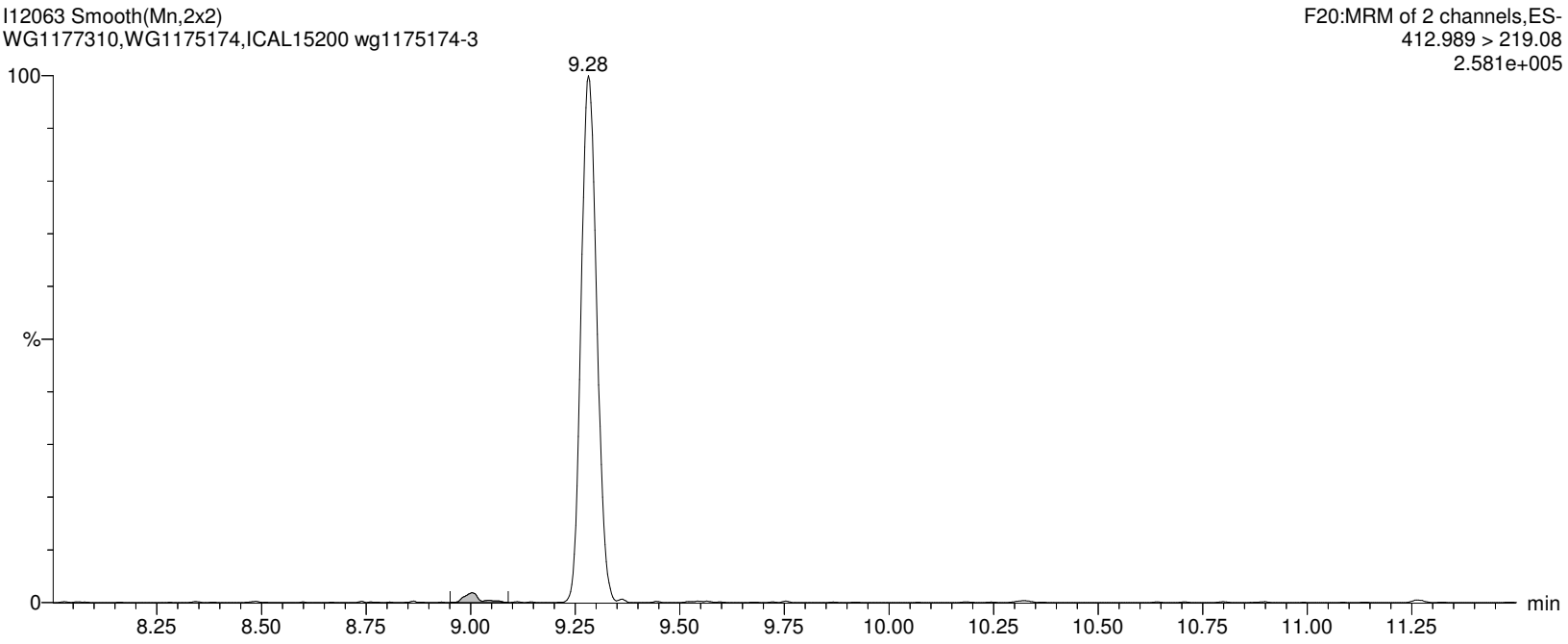

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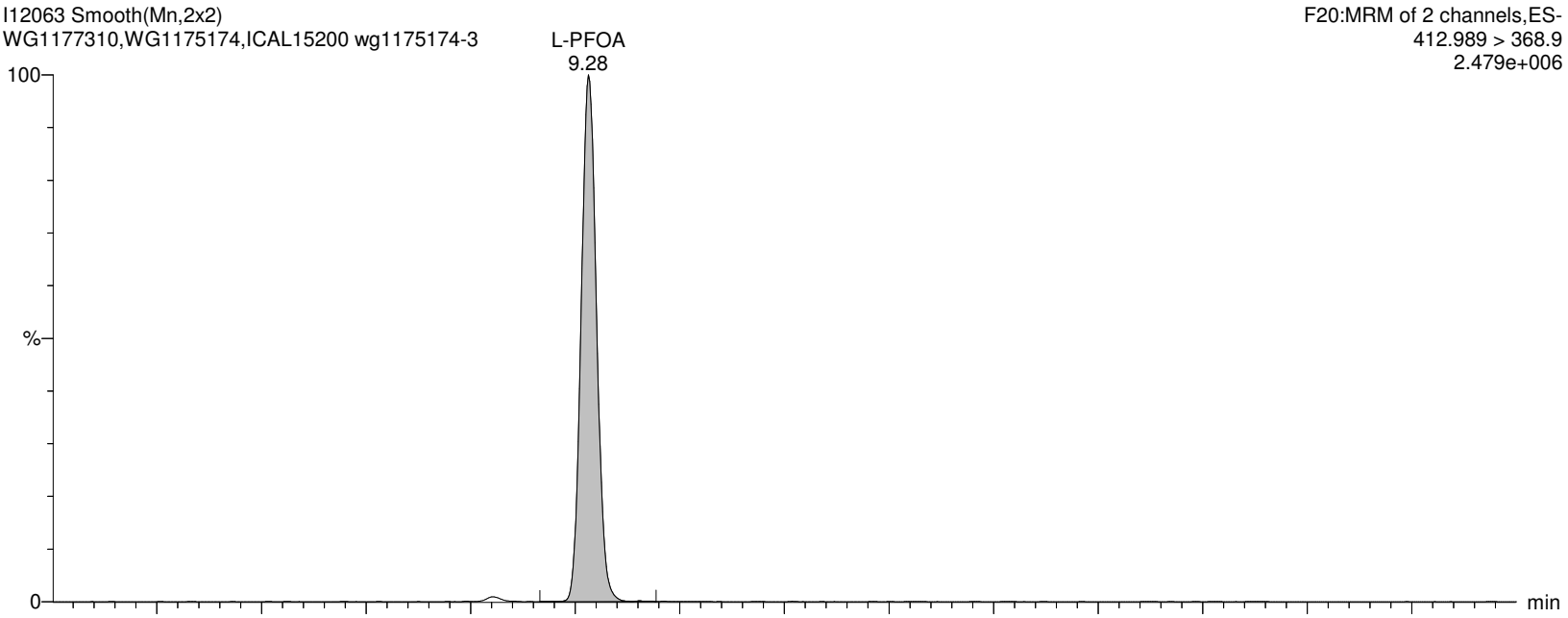

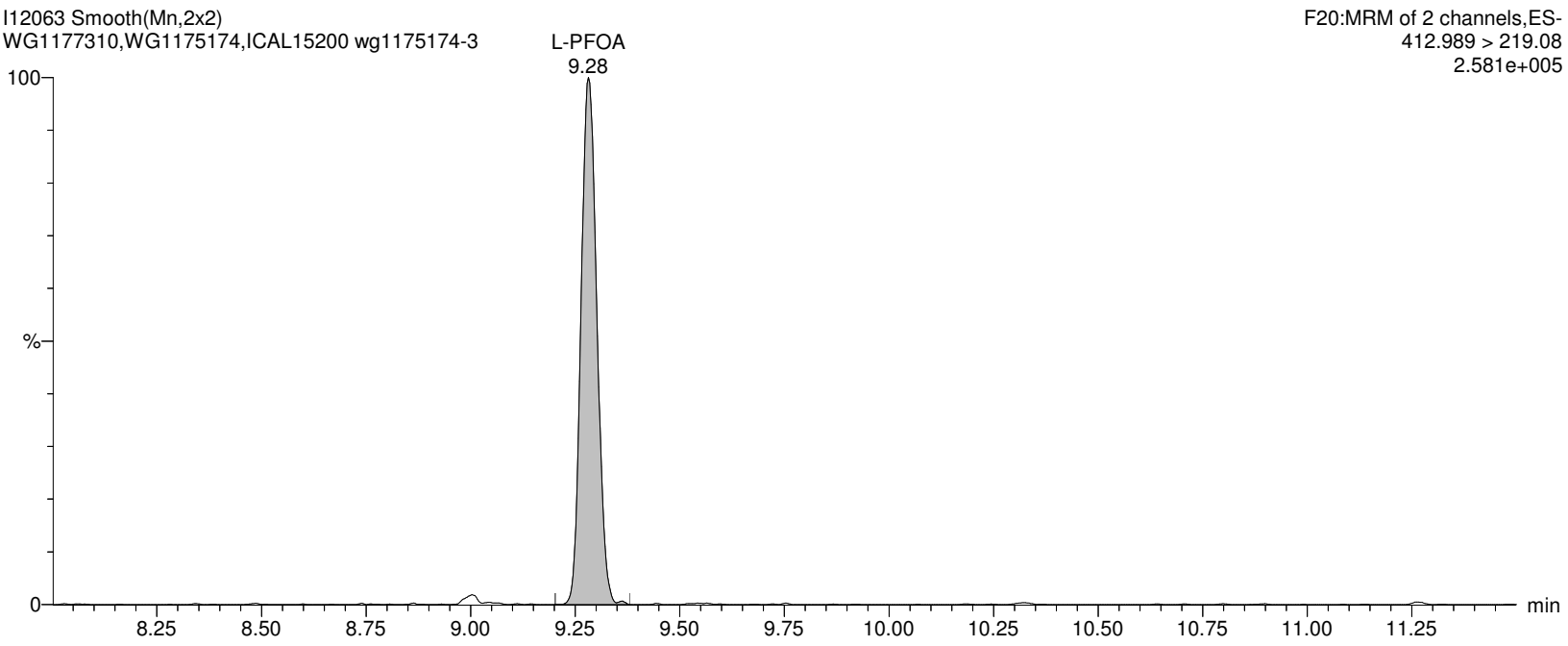

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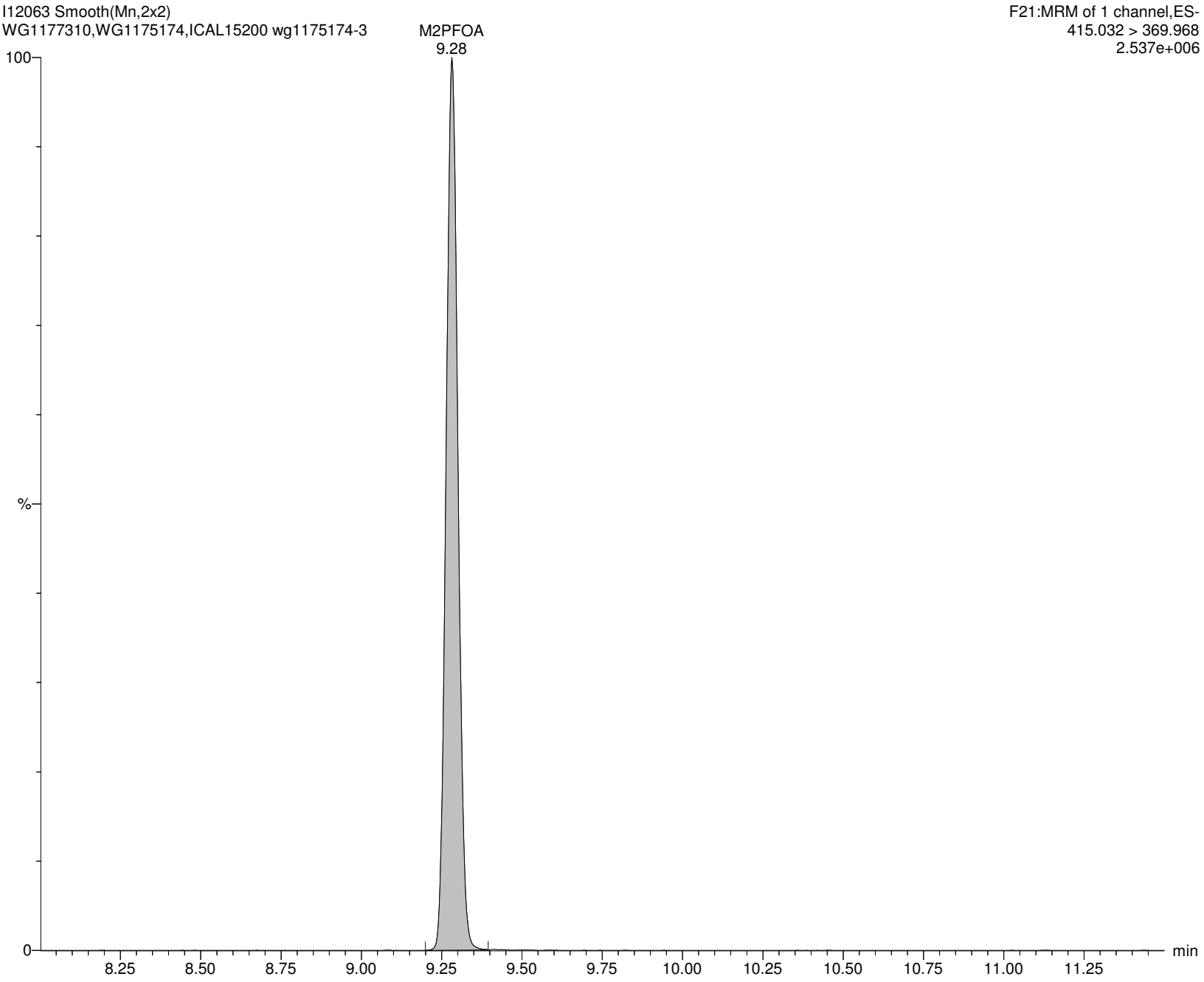

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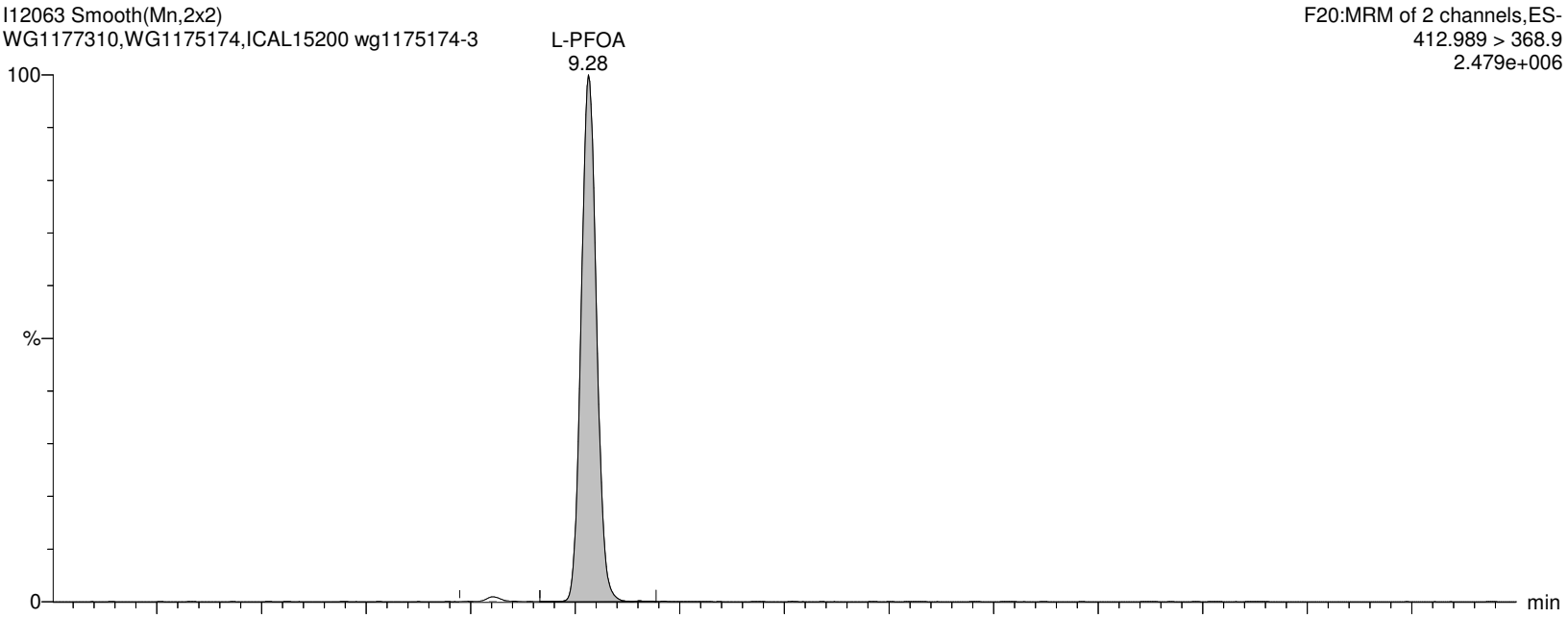

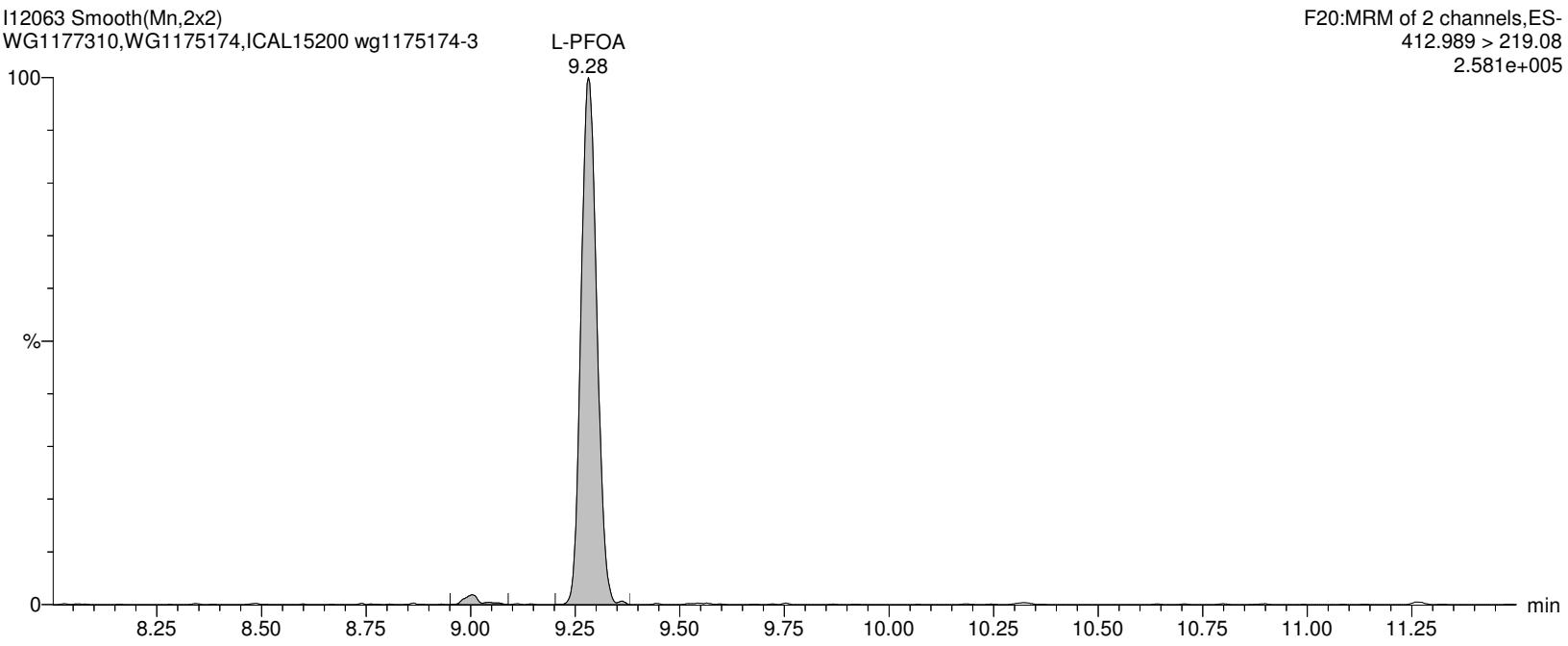

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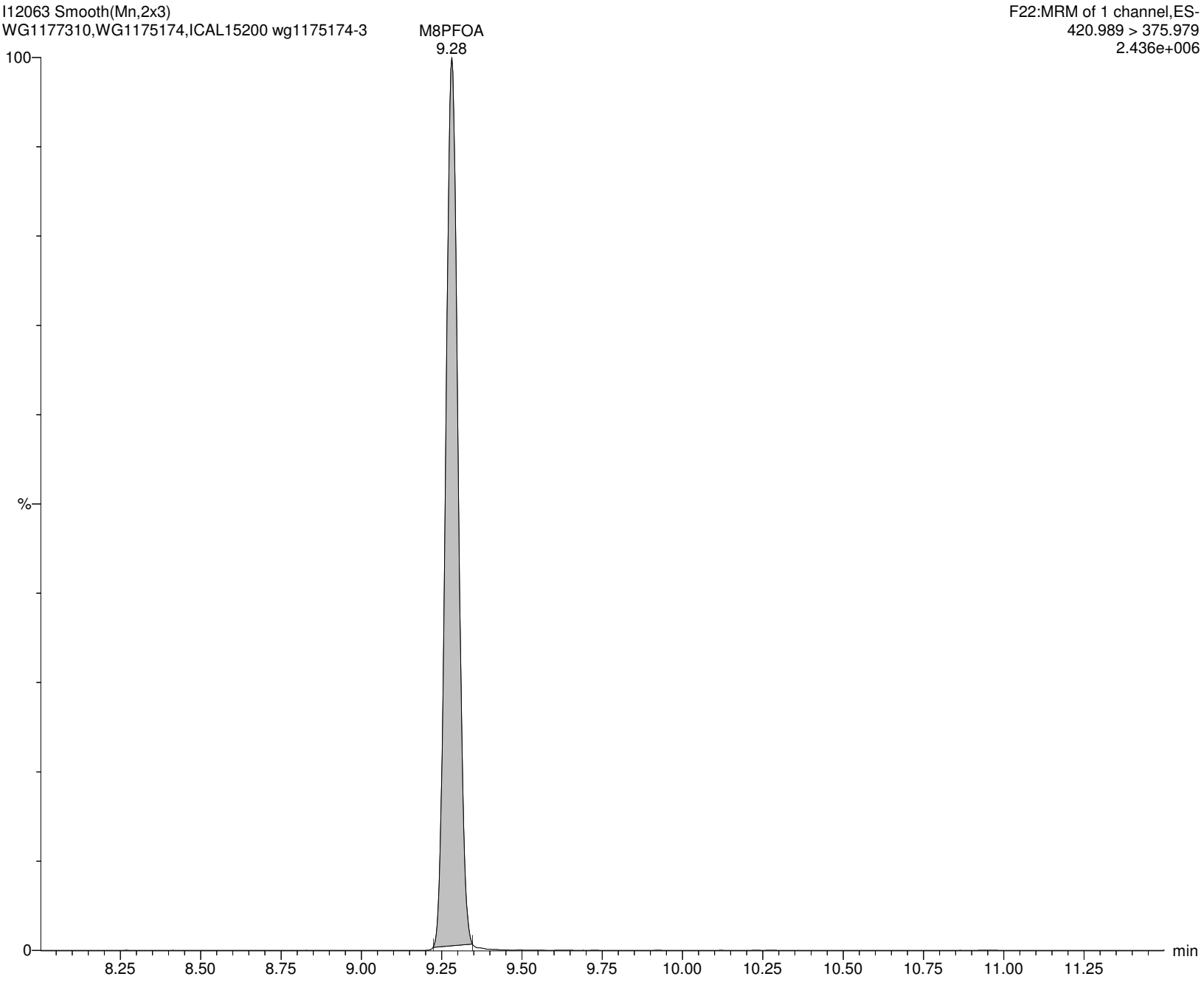

all concentration units in (ng/mL)

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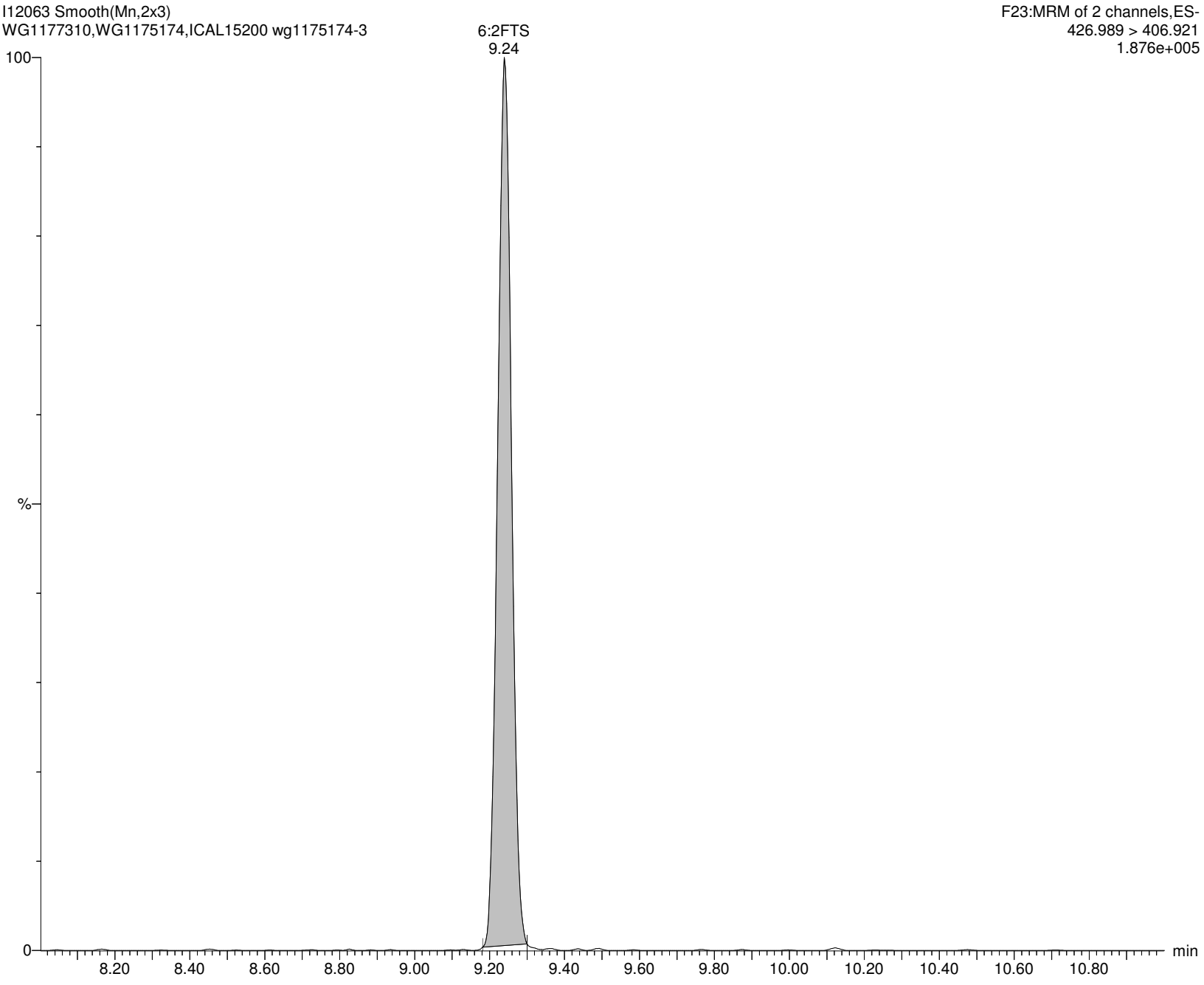

all concentration units in (ng/mL)

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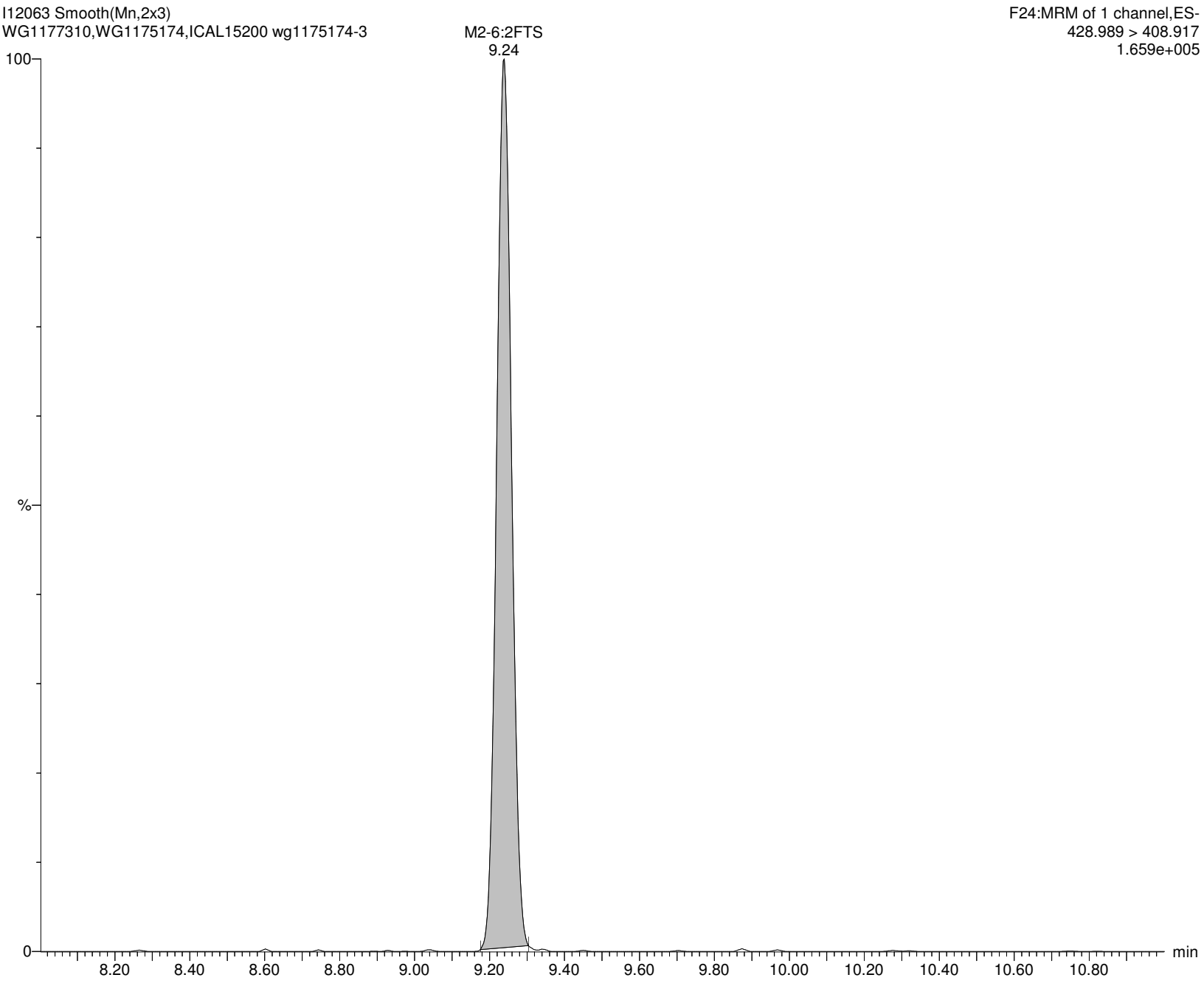

all concentration units in (ng/mL)

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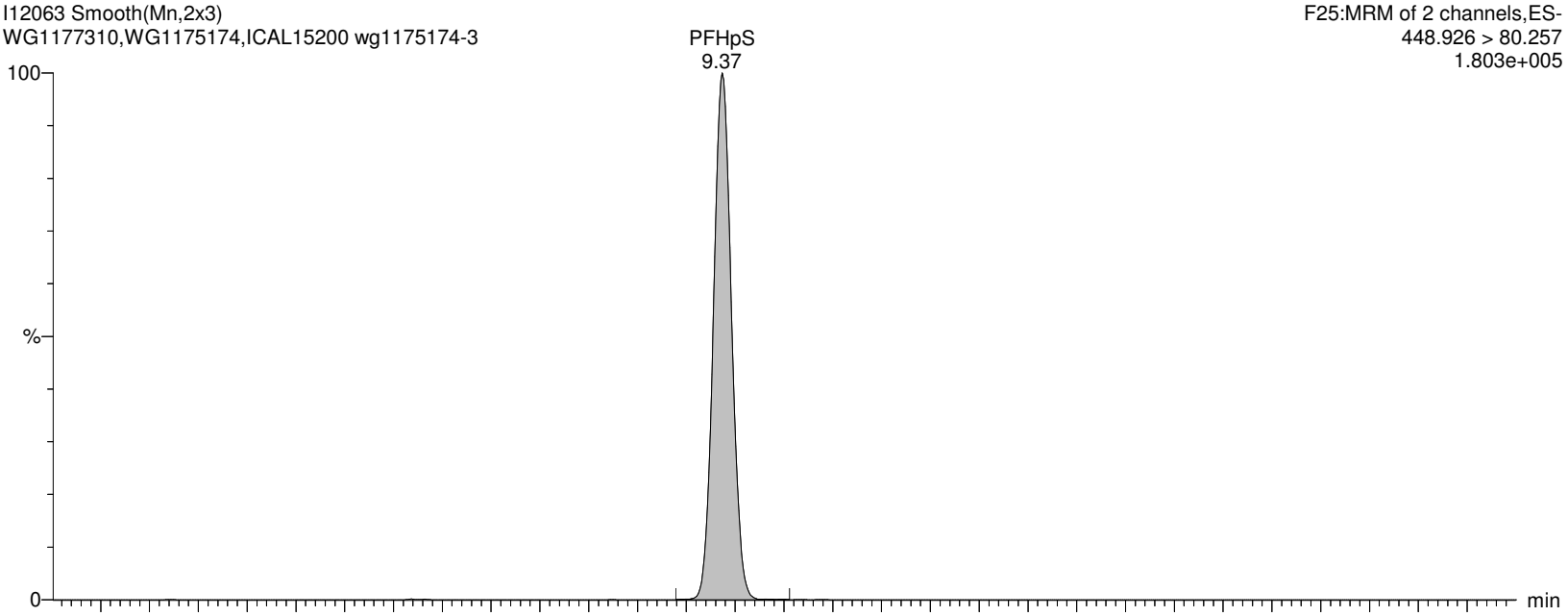

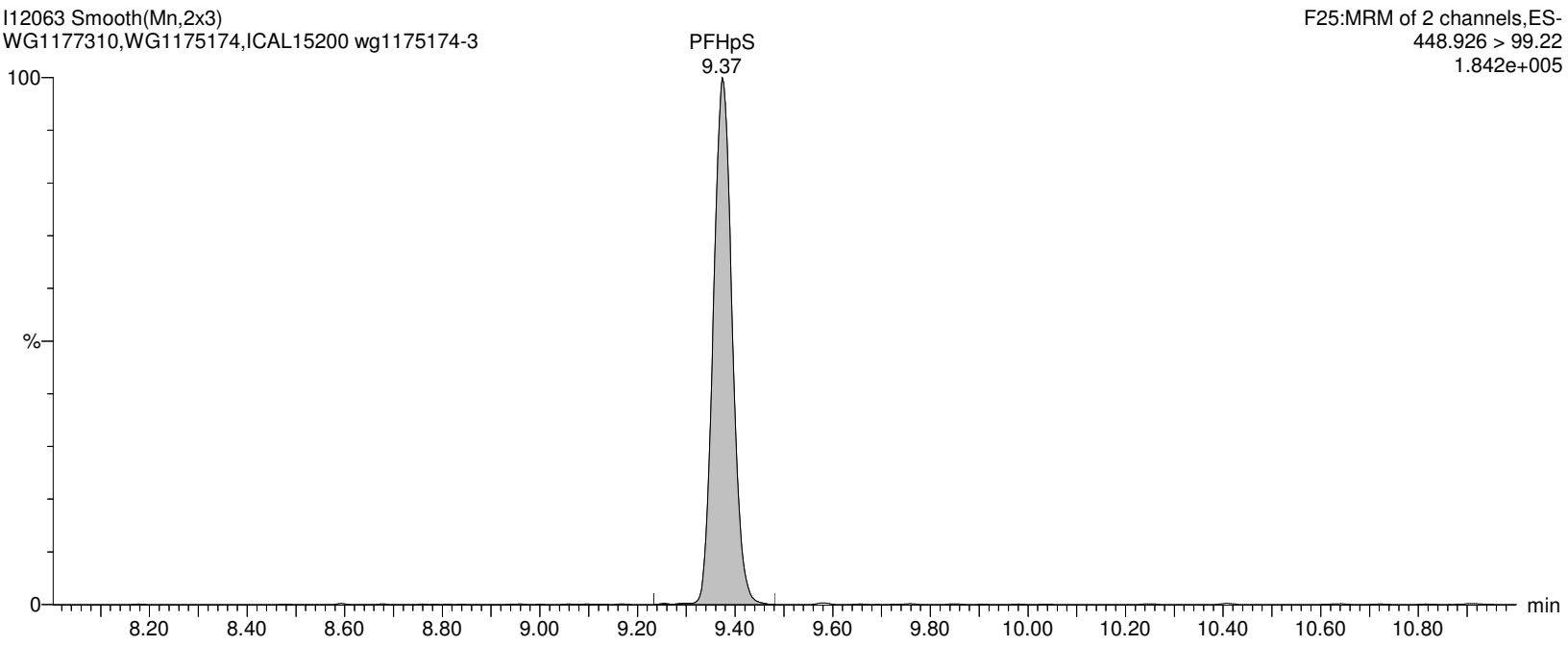

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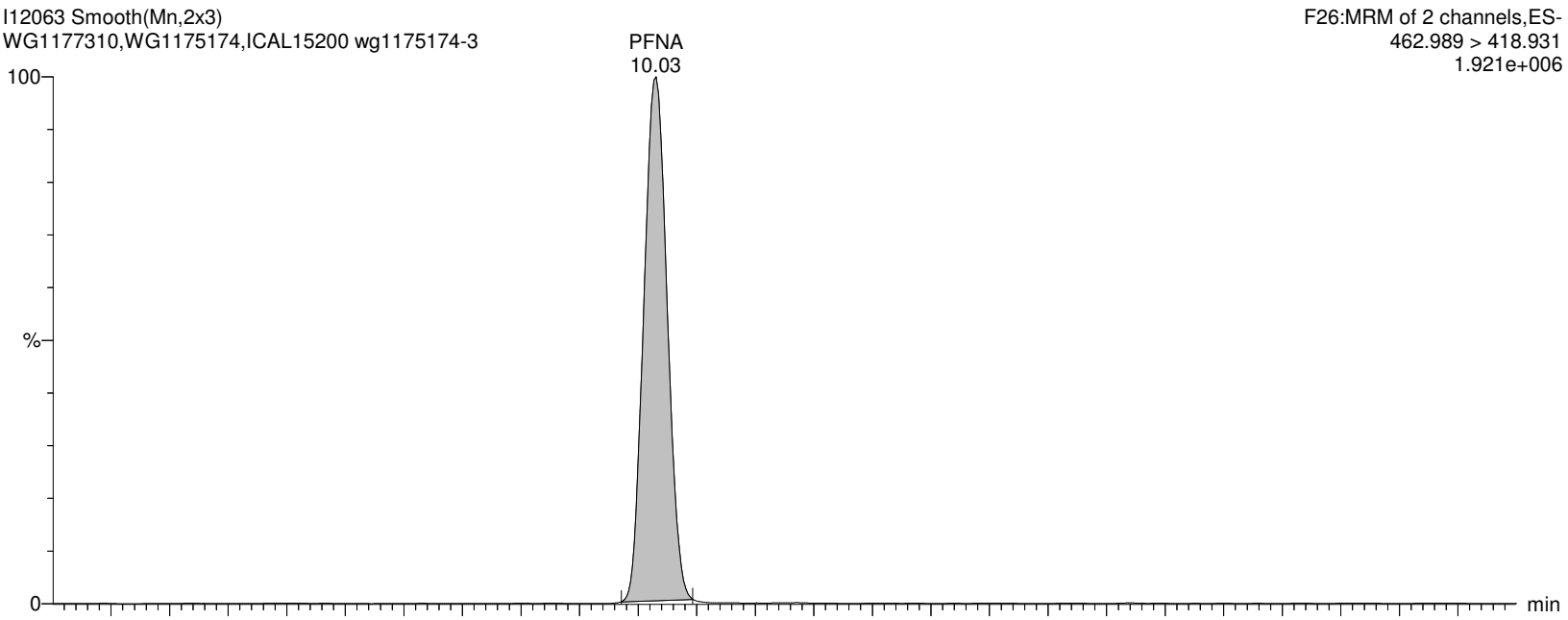

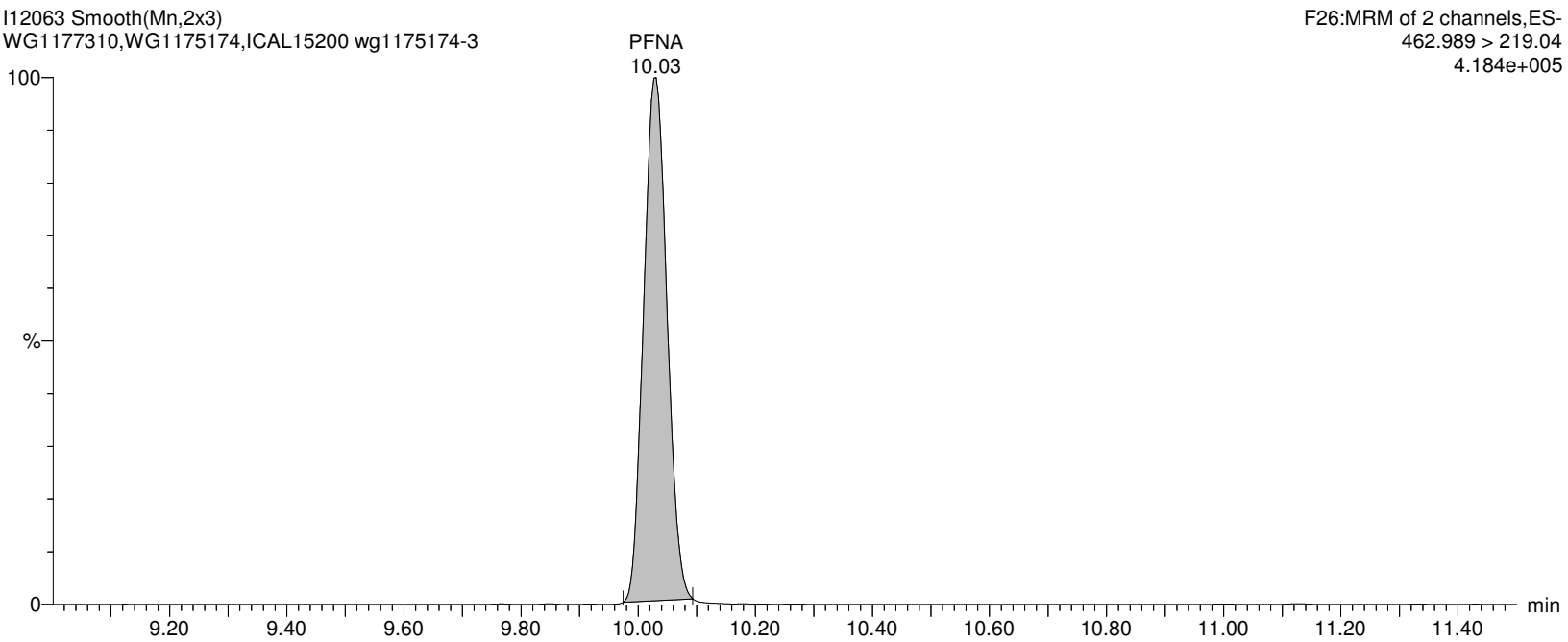

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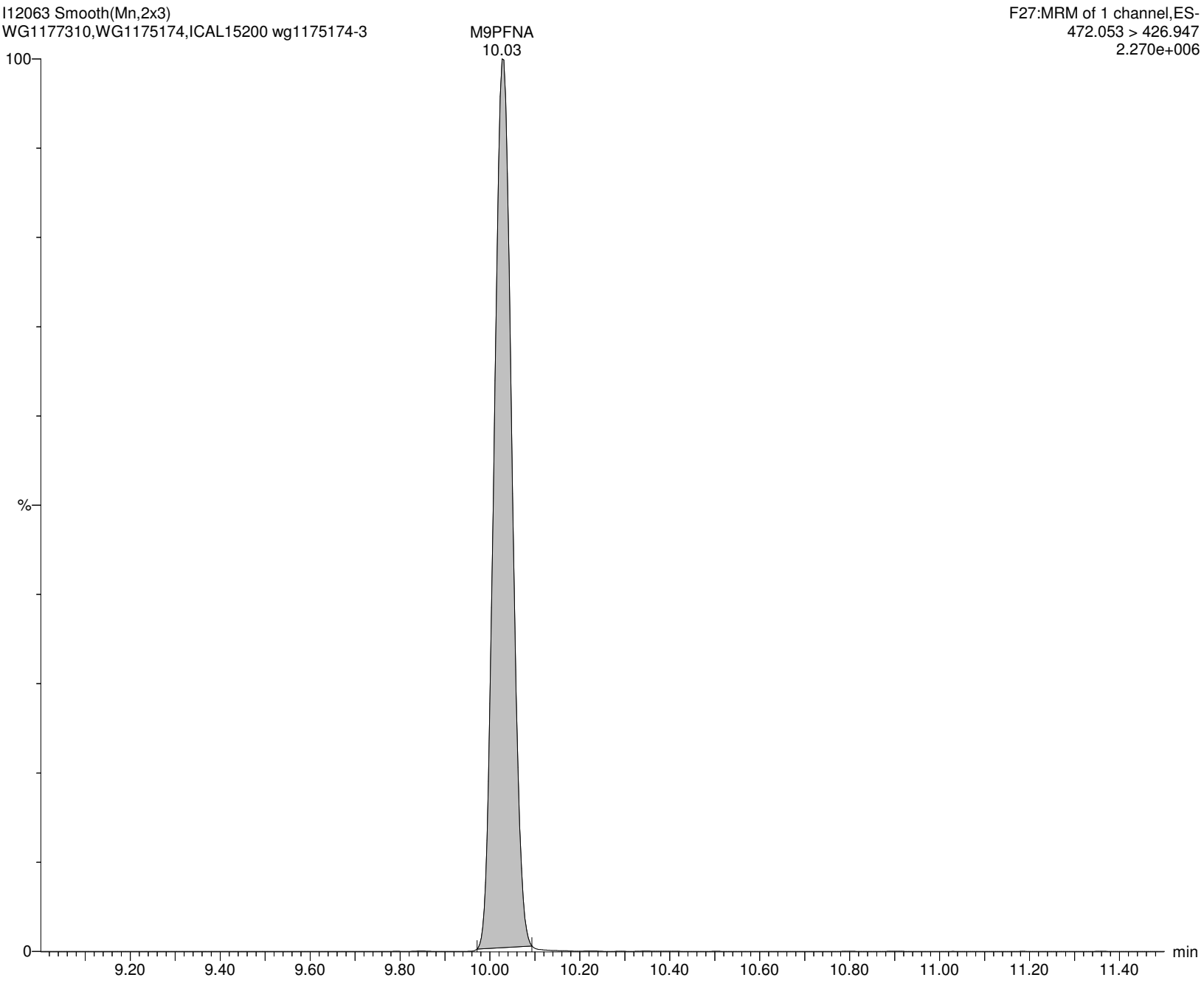

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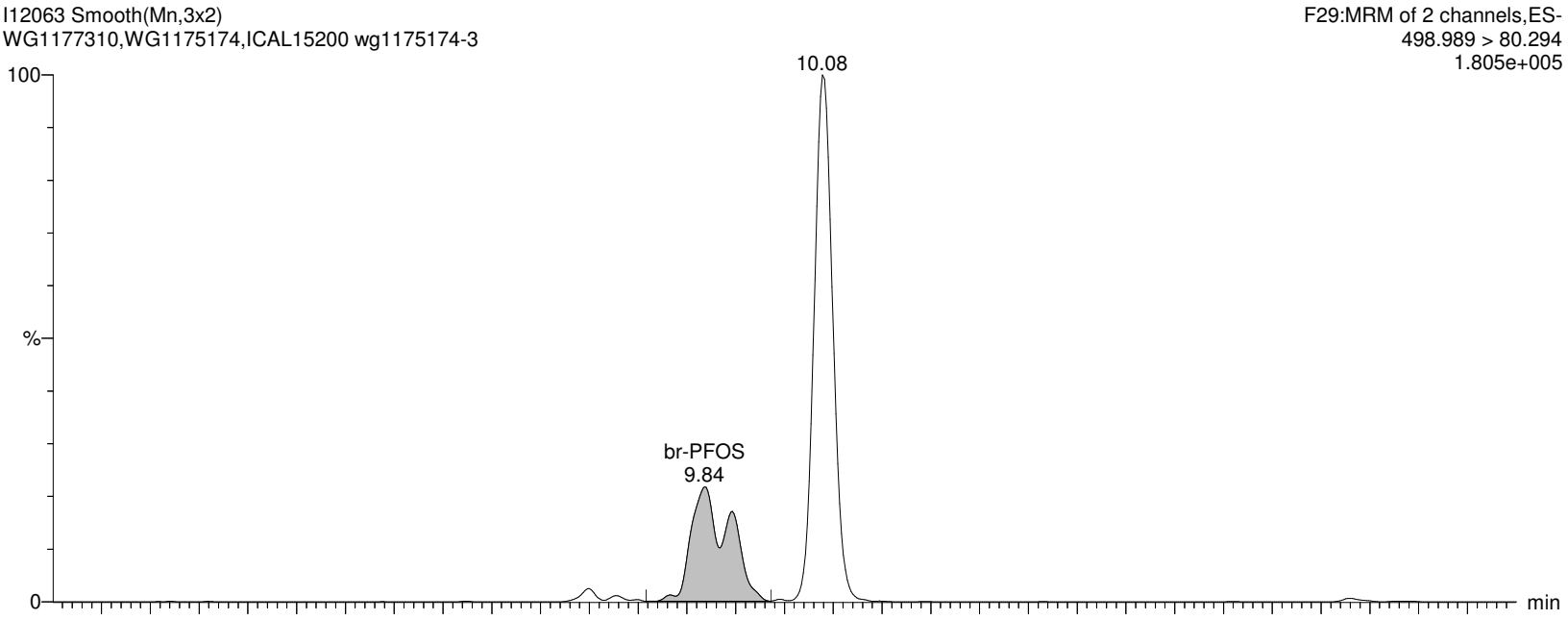

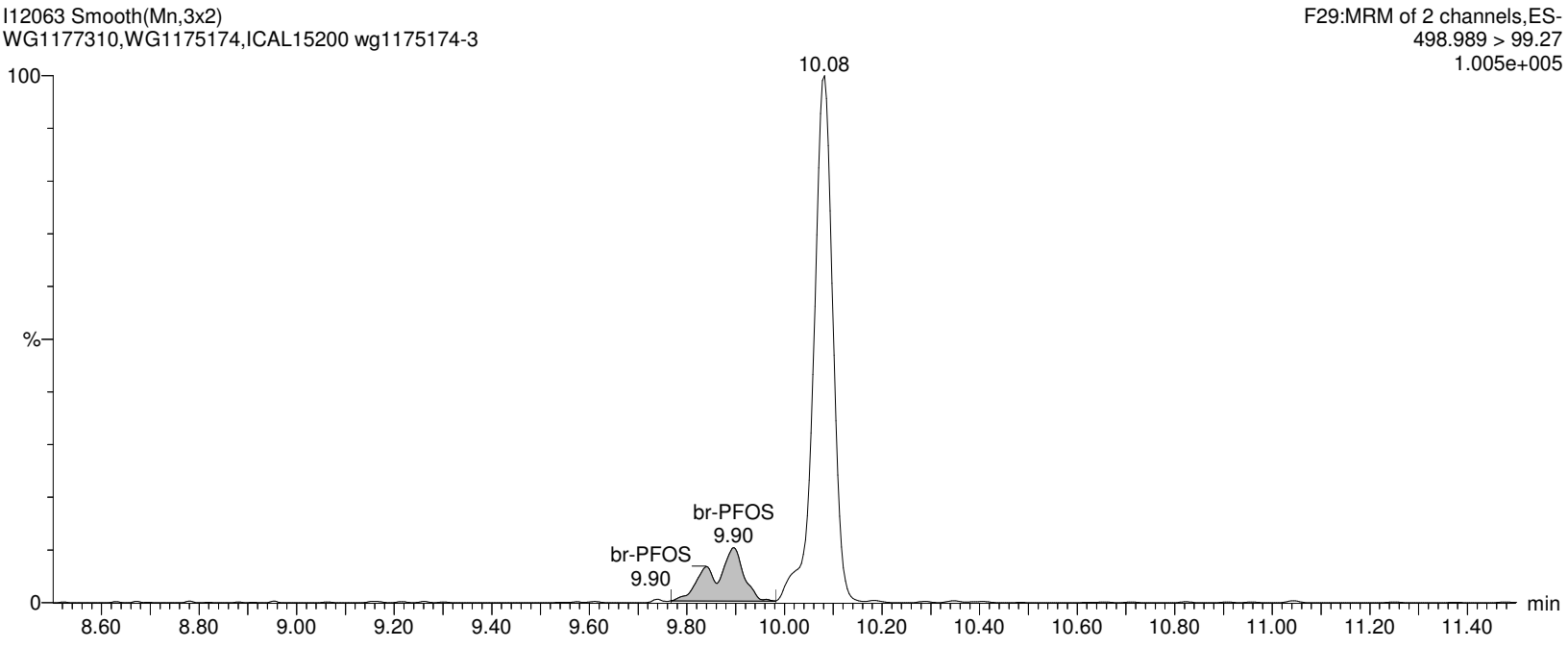

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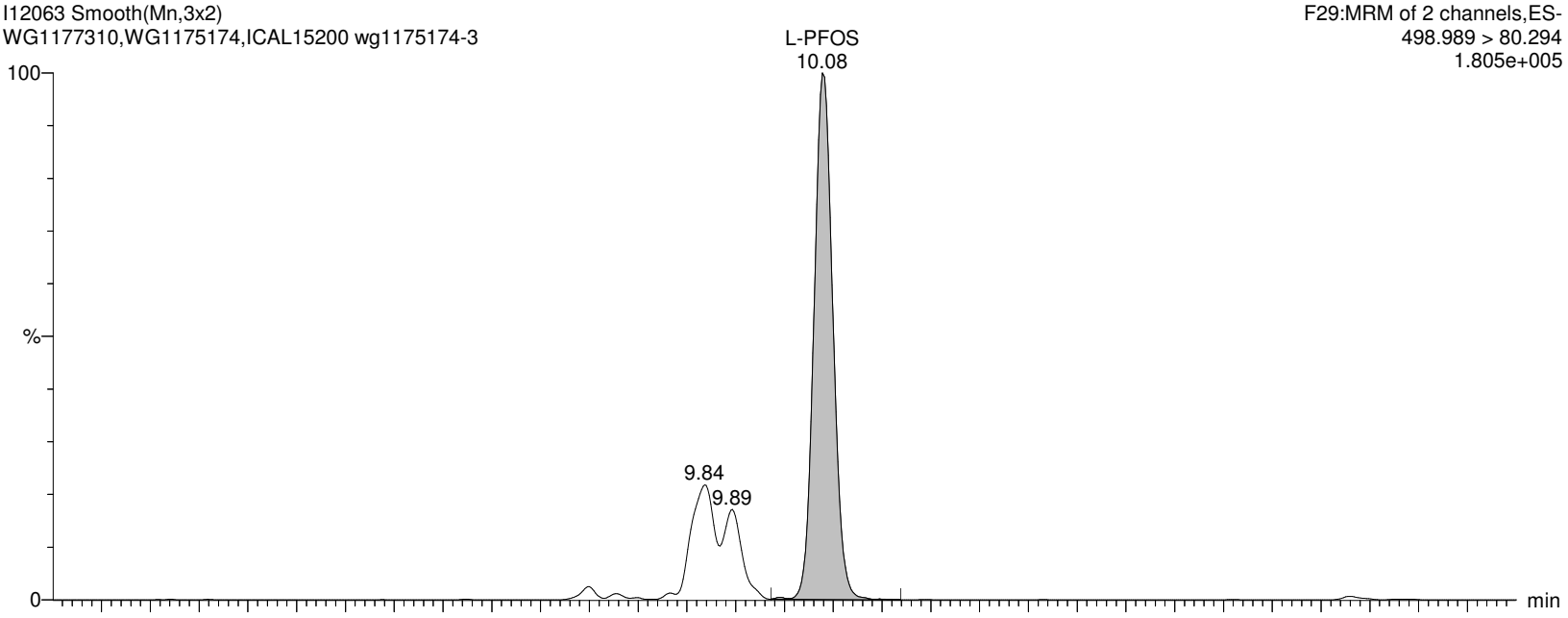
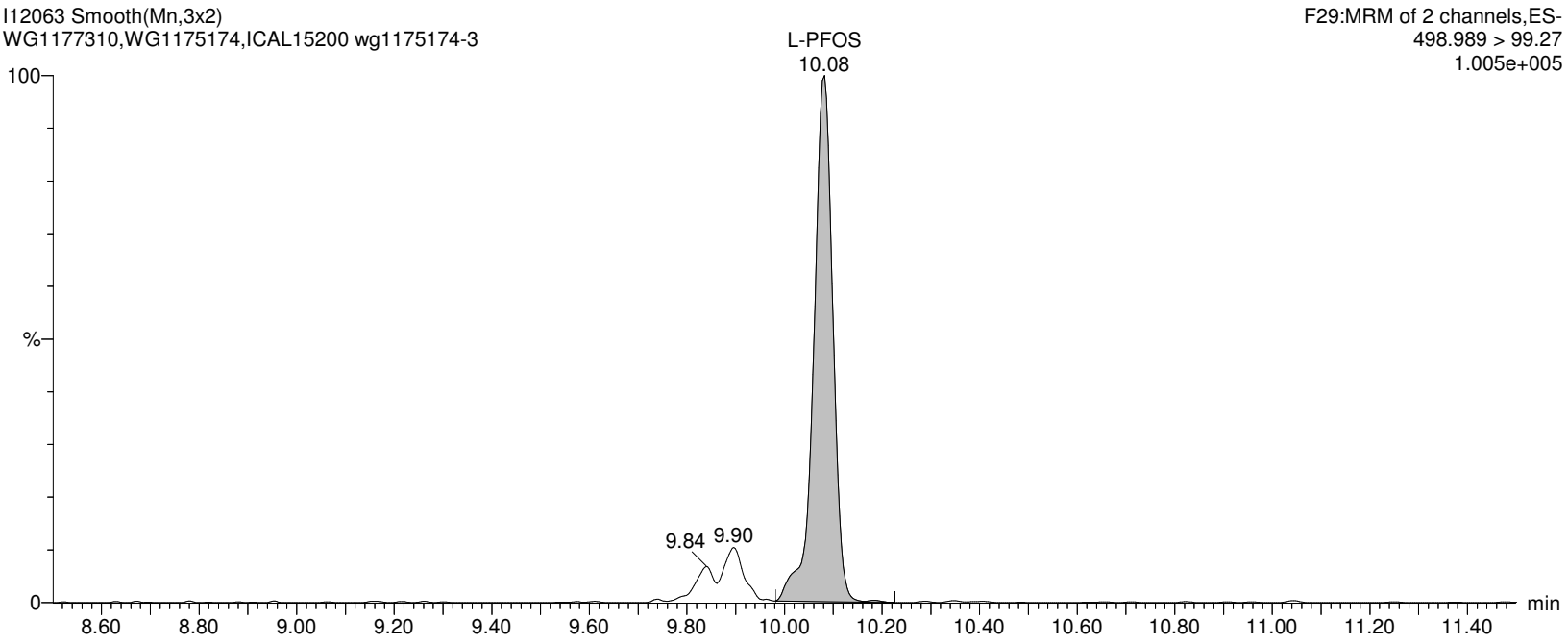
L-PFOS





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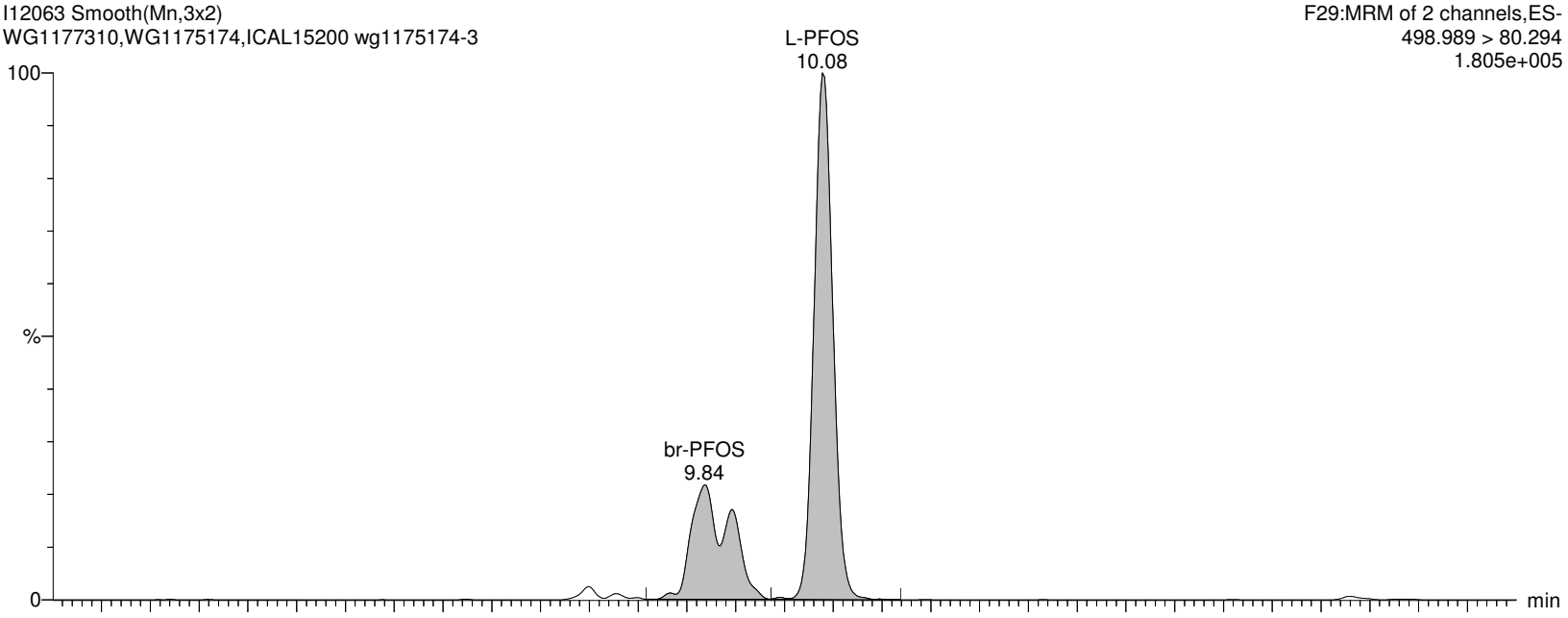

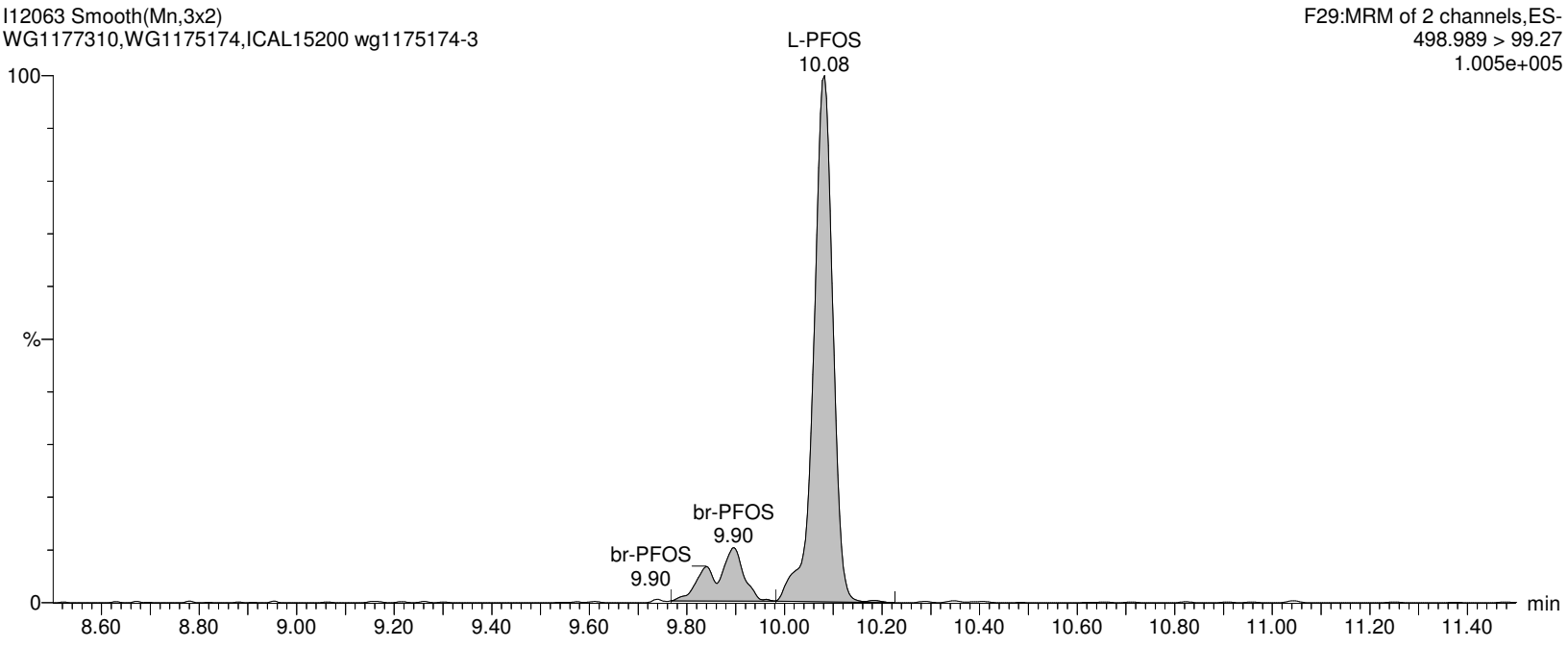

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Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
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Name: I12063
ID: wg1175174-3
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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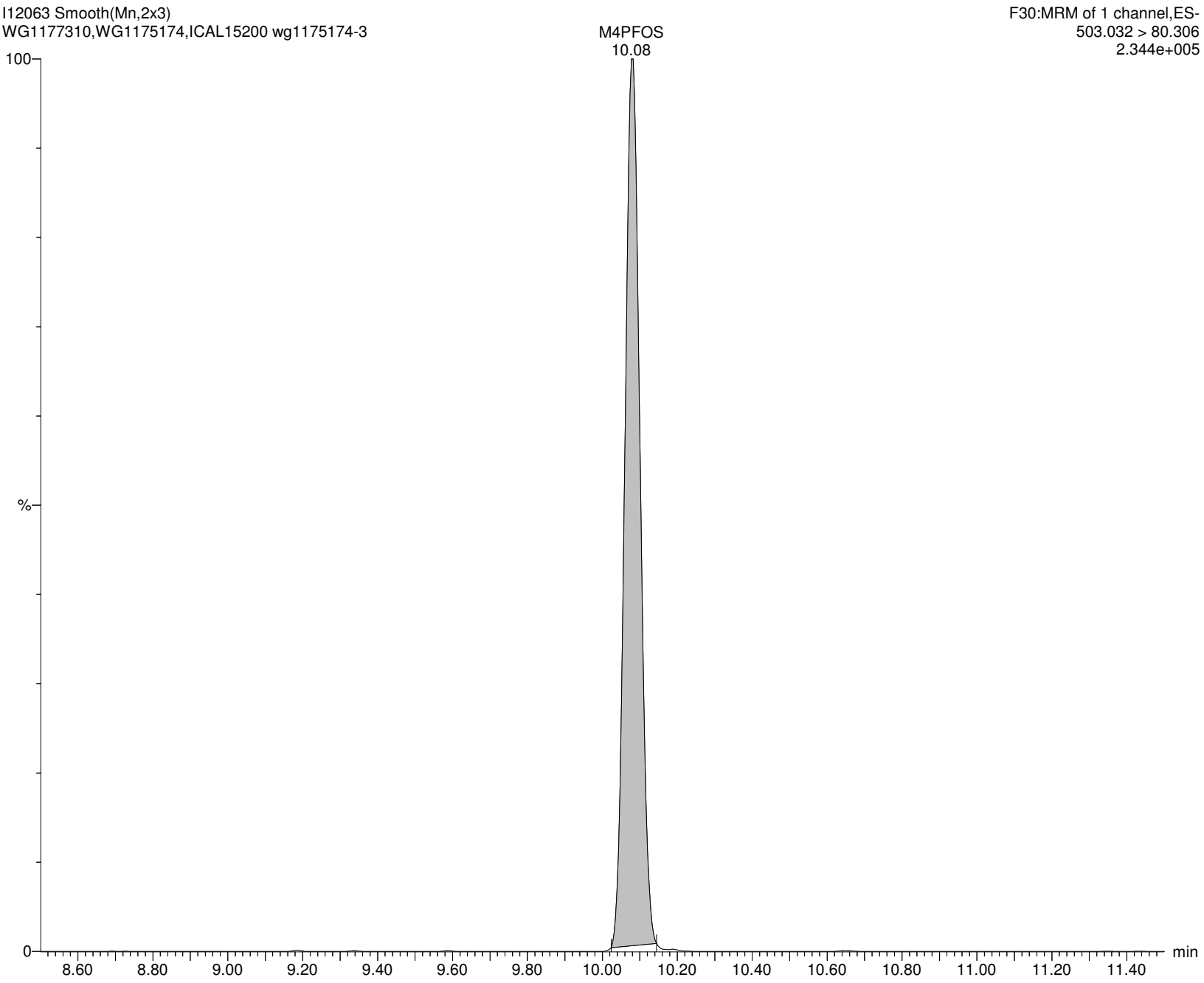

all concentration units in (ng/mL)

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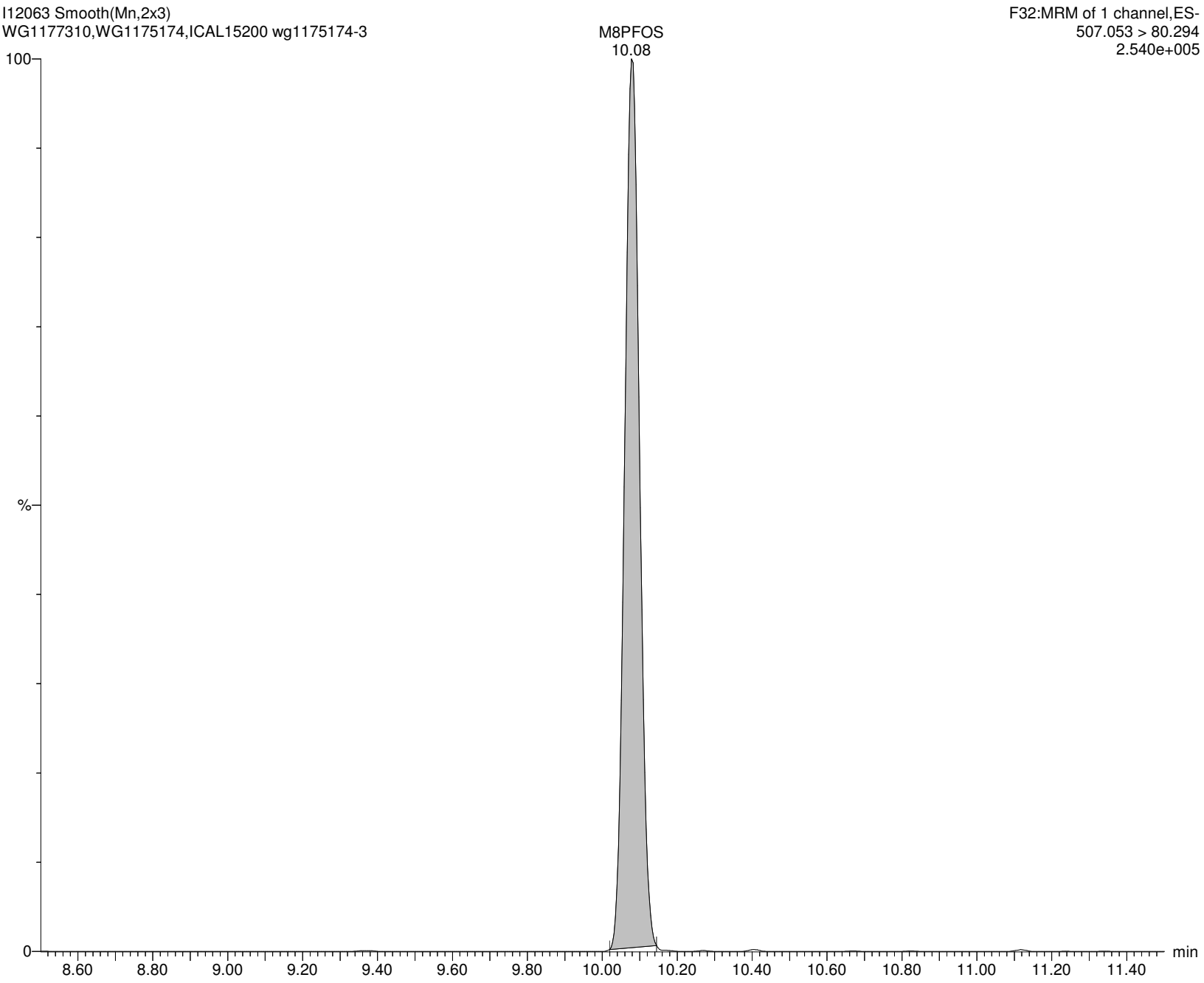

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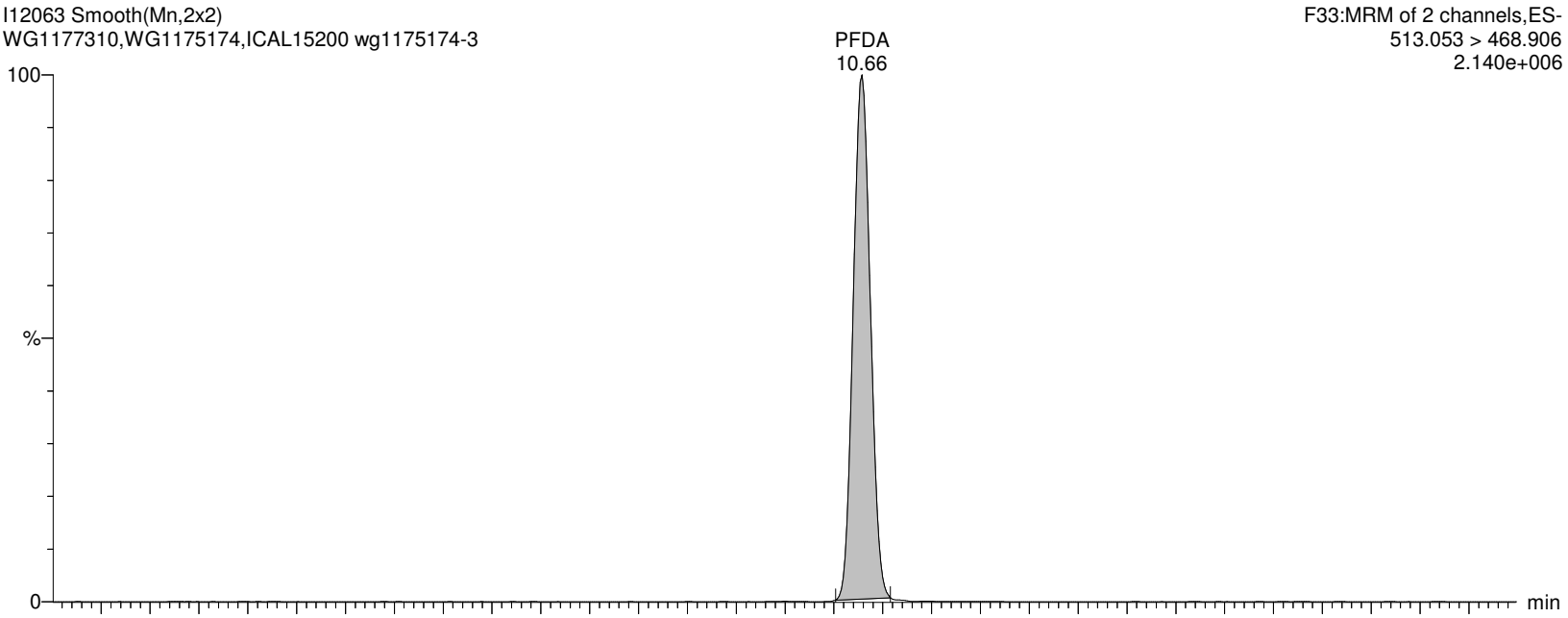

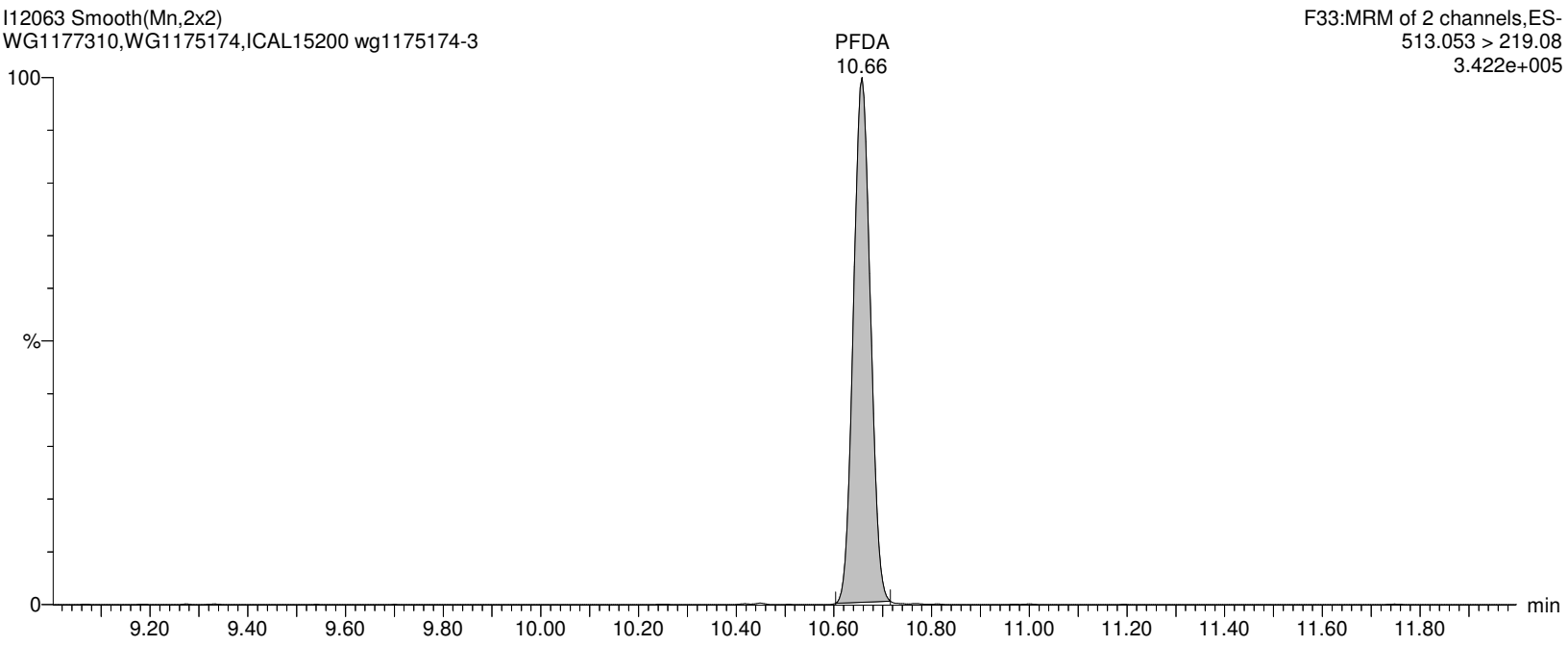

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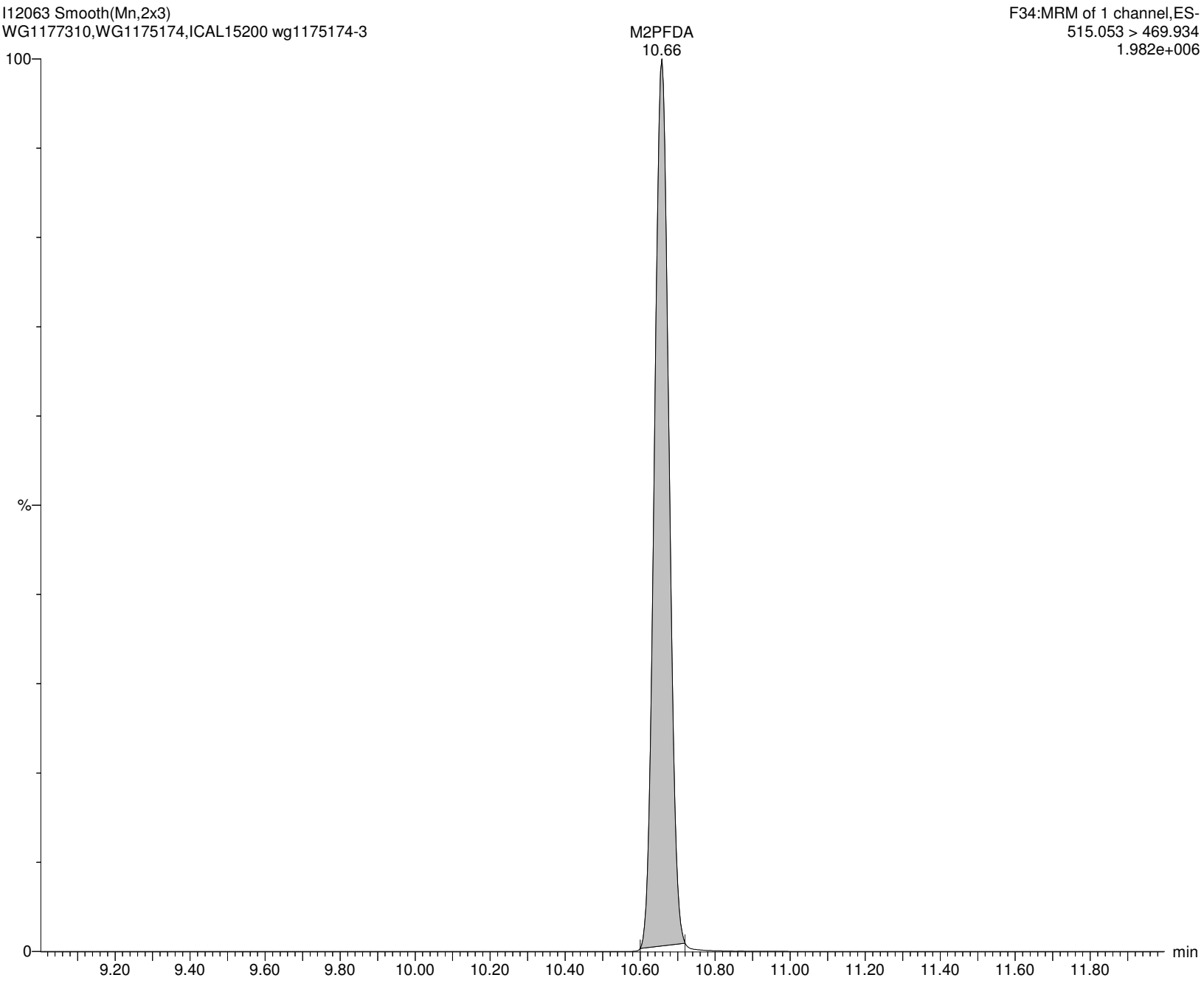

all concentration units in (ng/mL)

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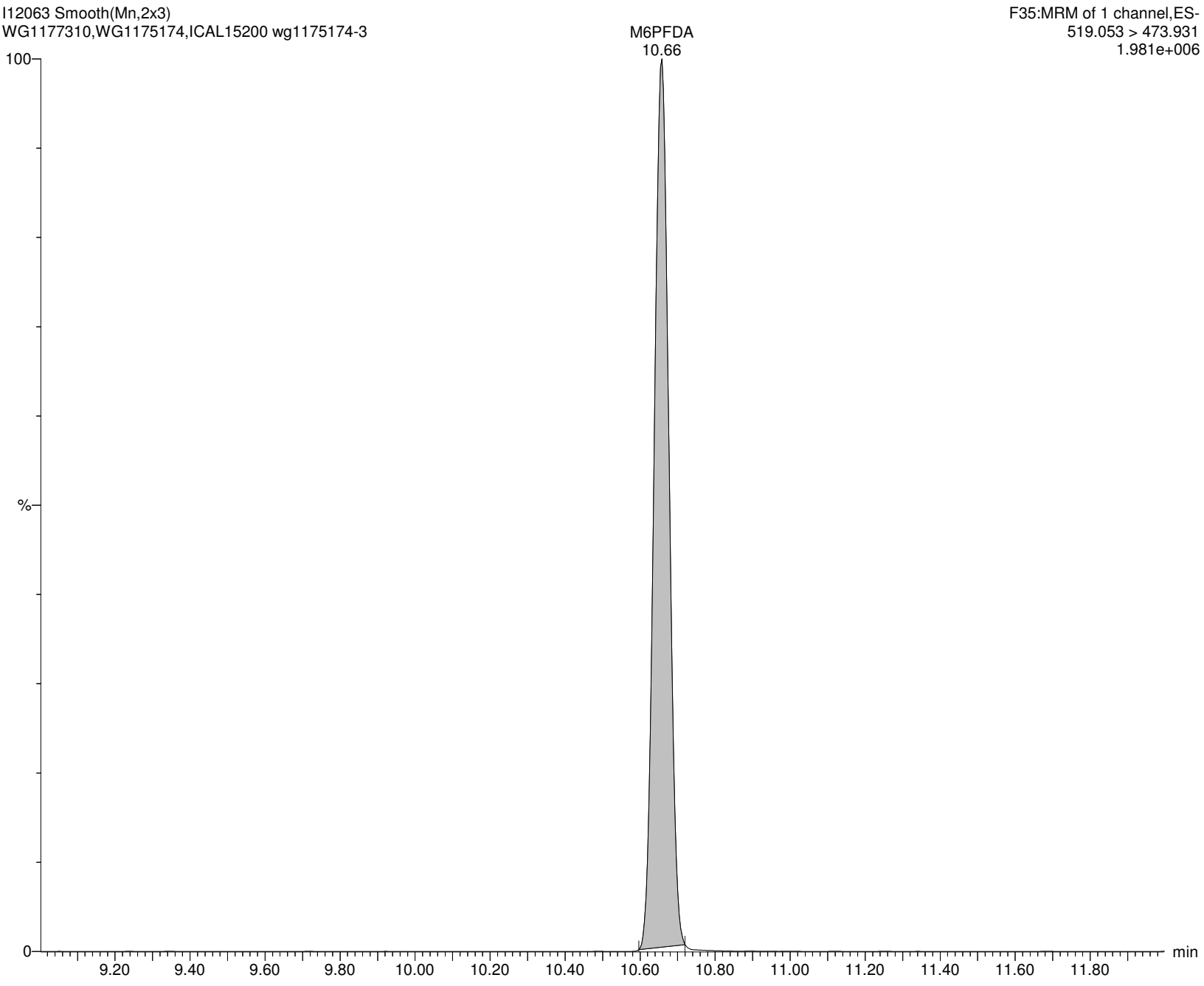

all concentration units in (ng/mL)

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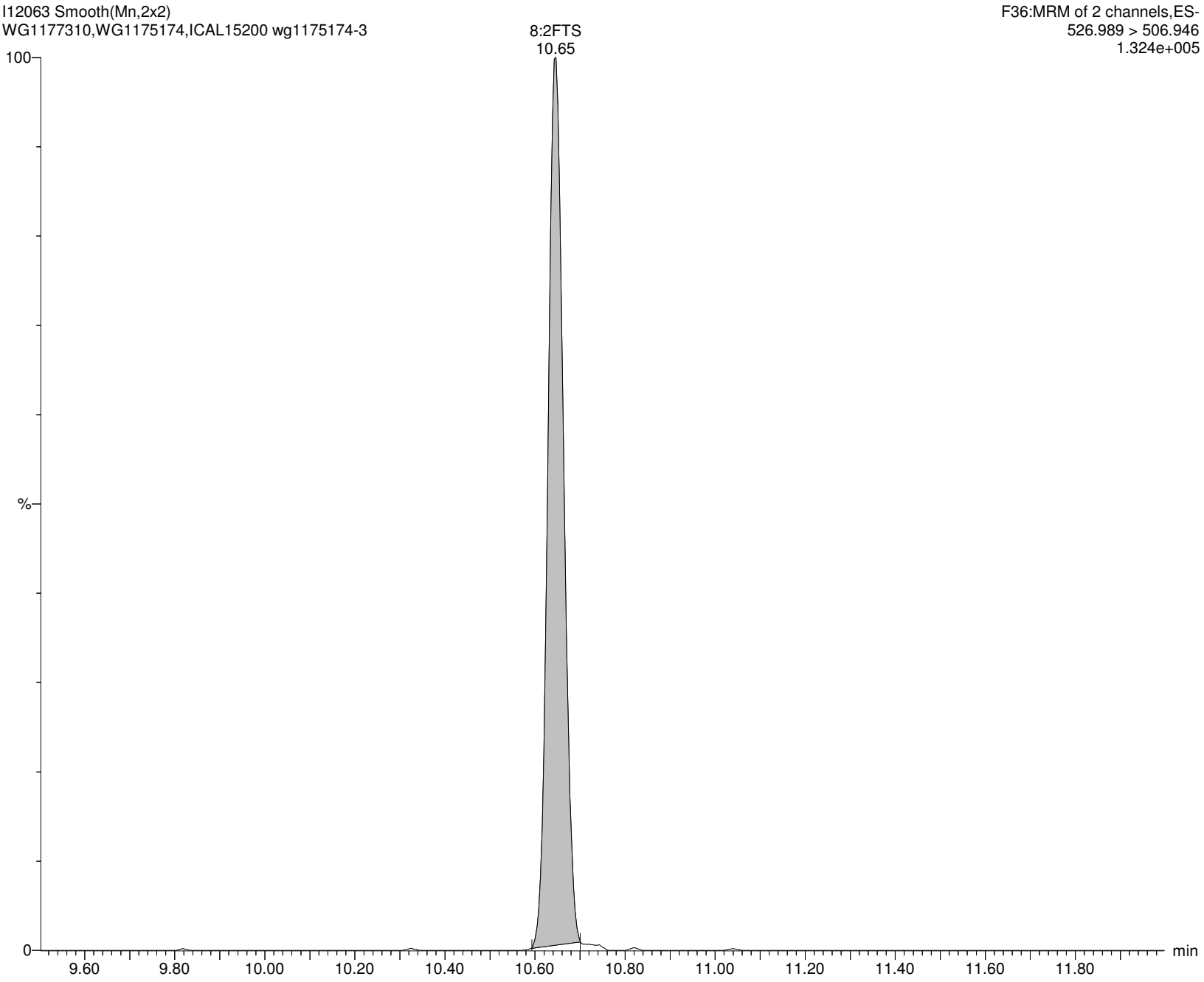

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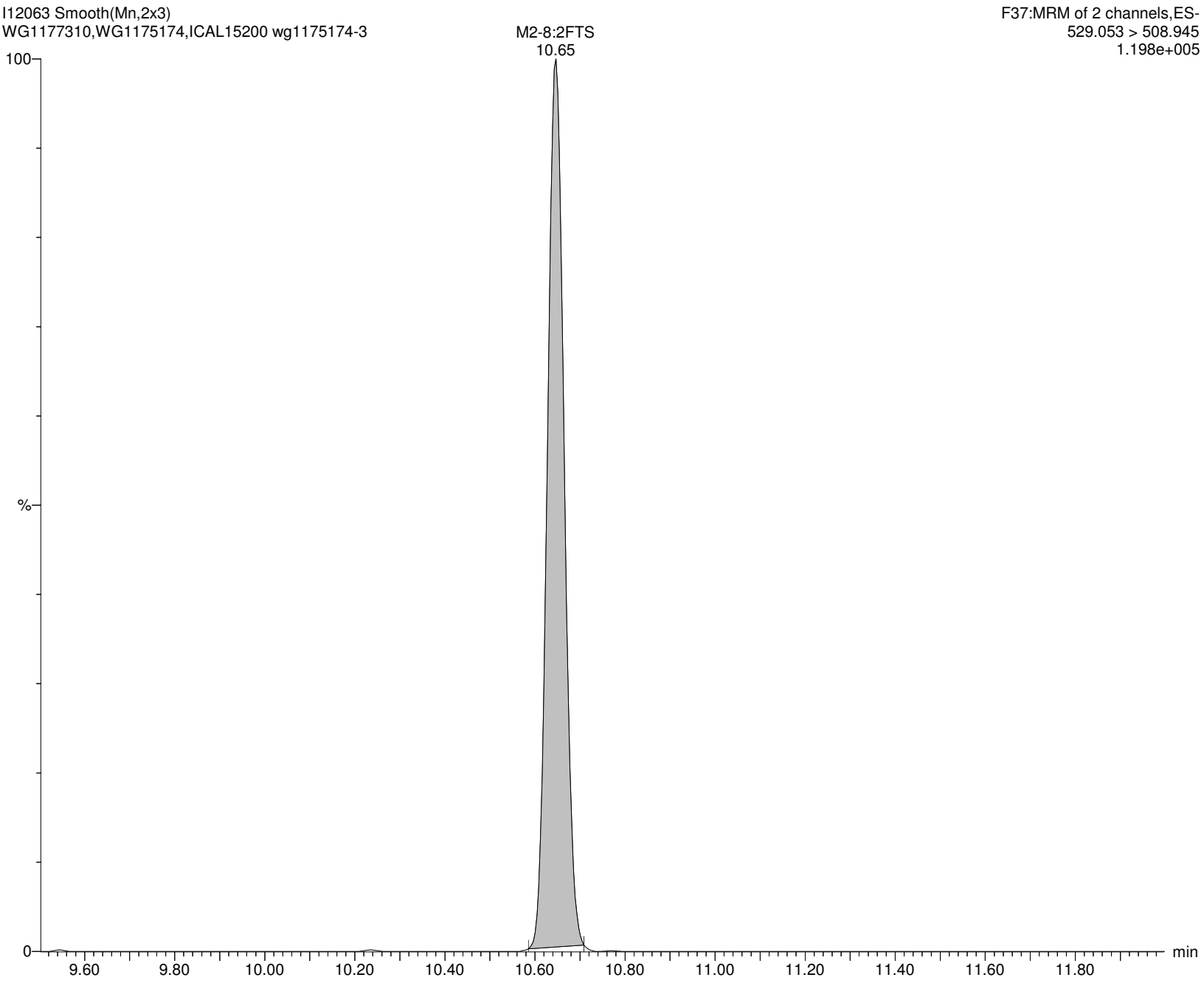

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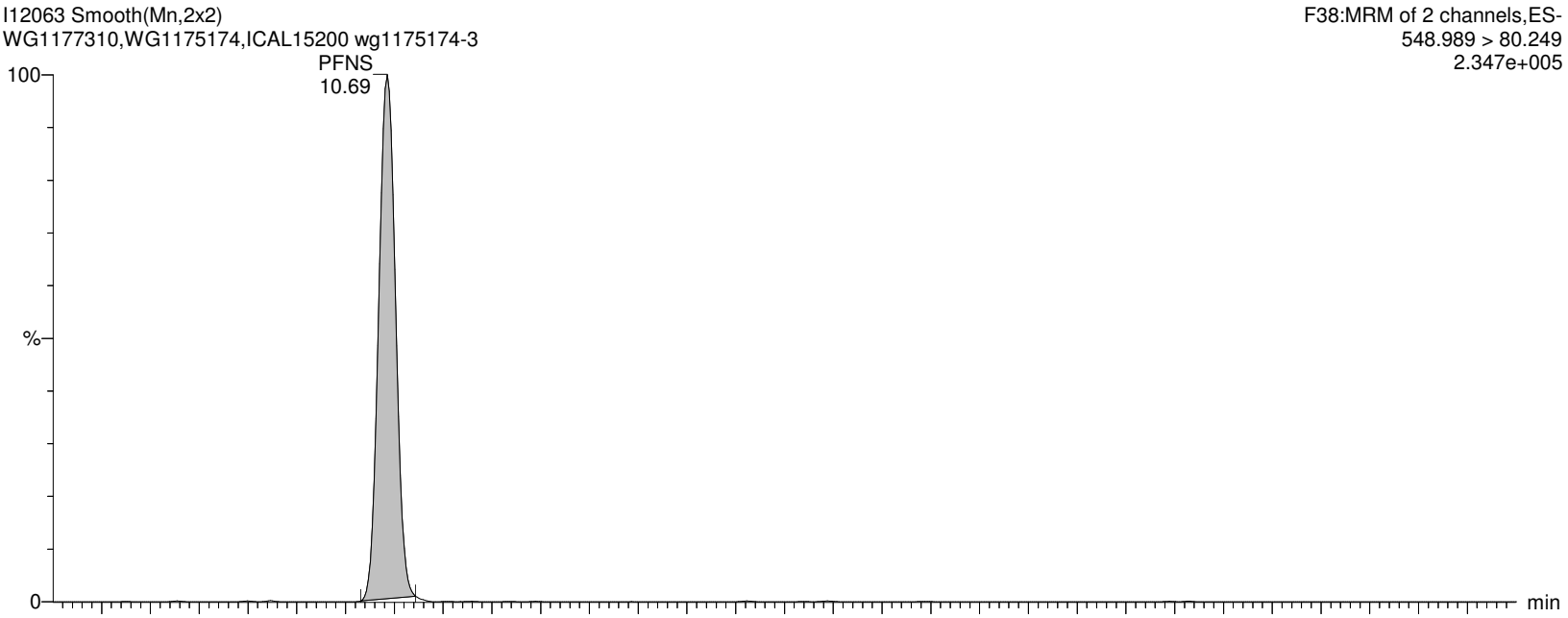

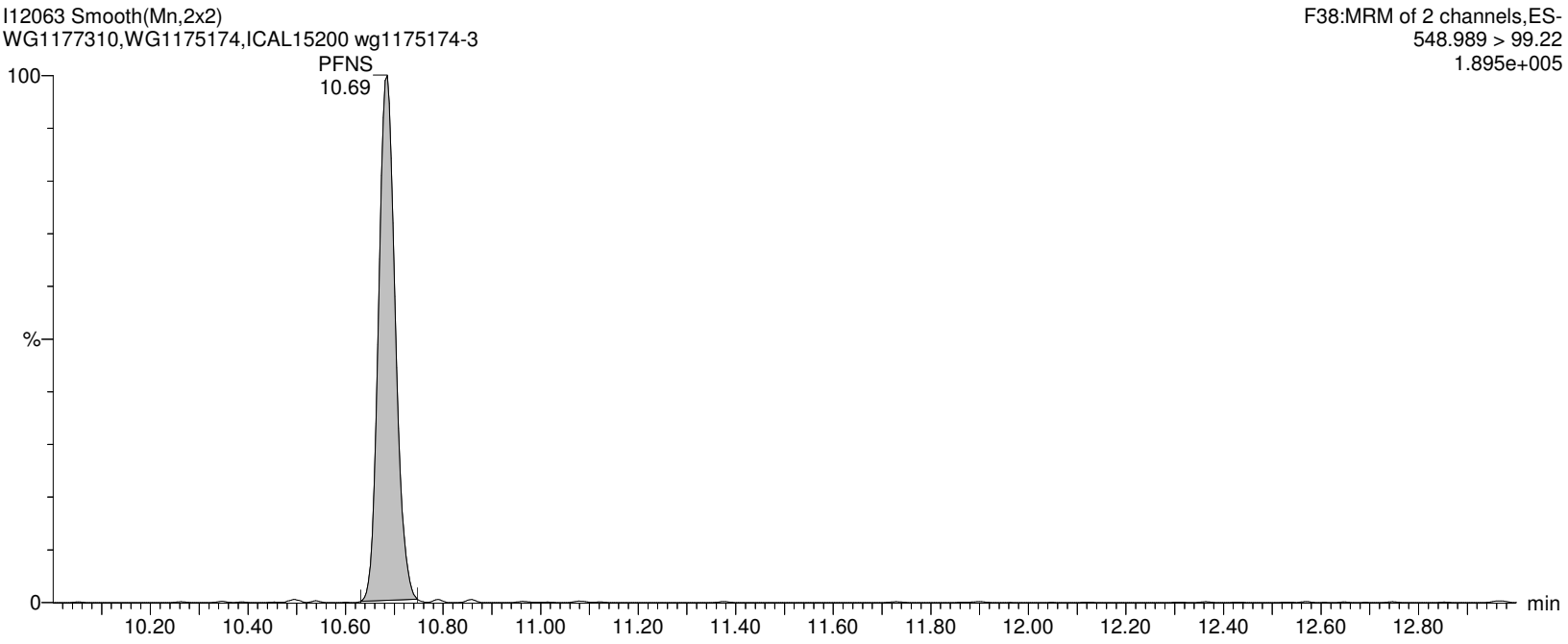

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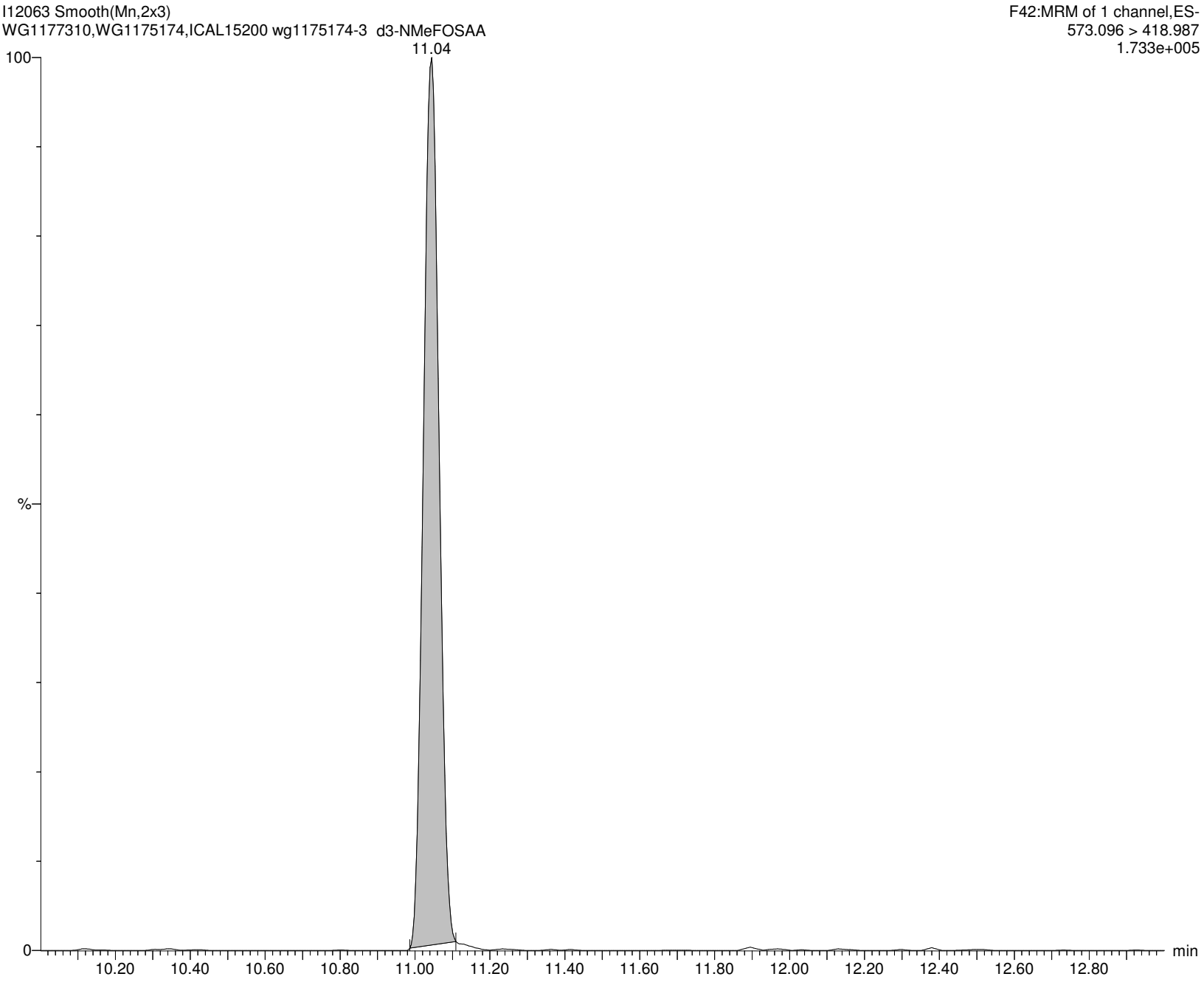

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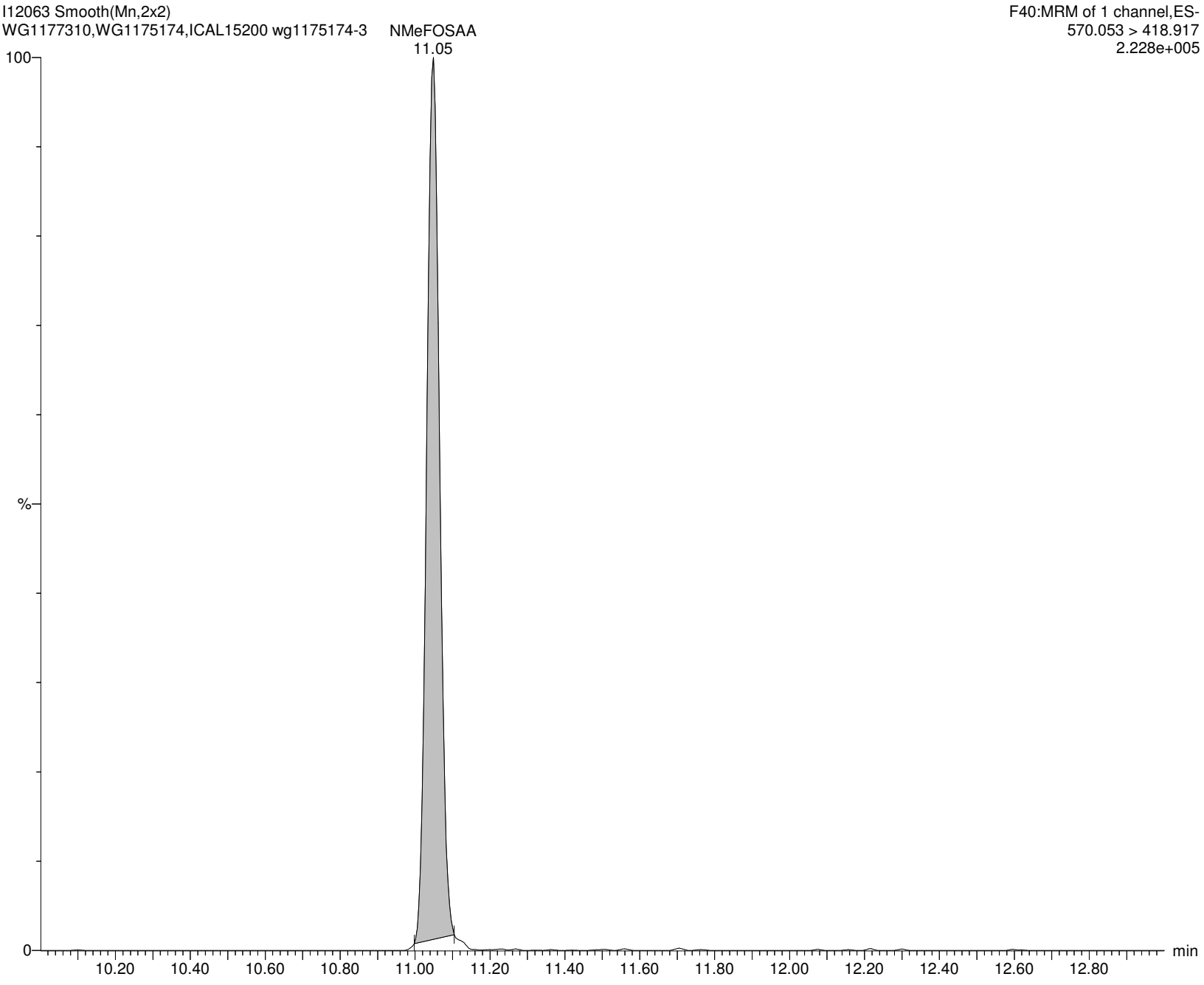

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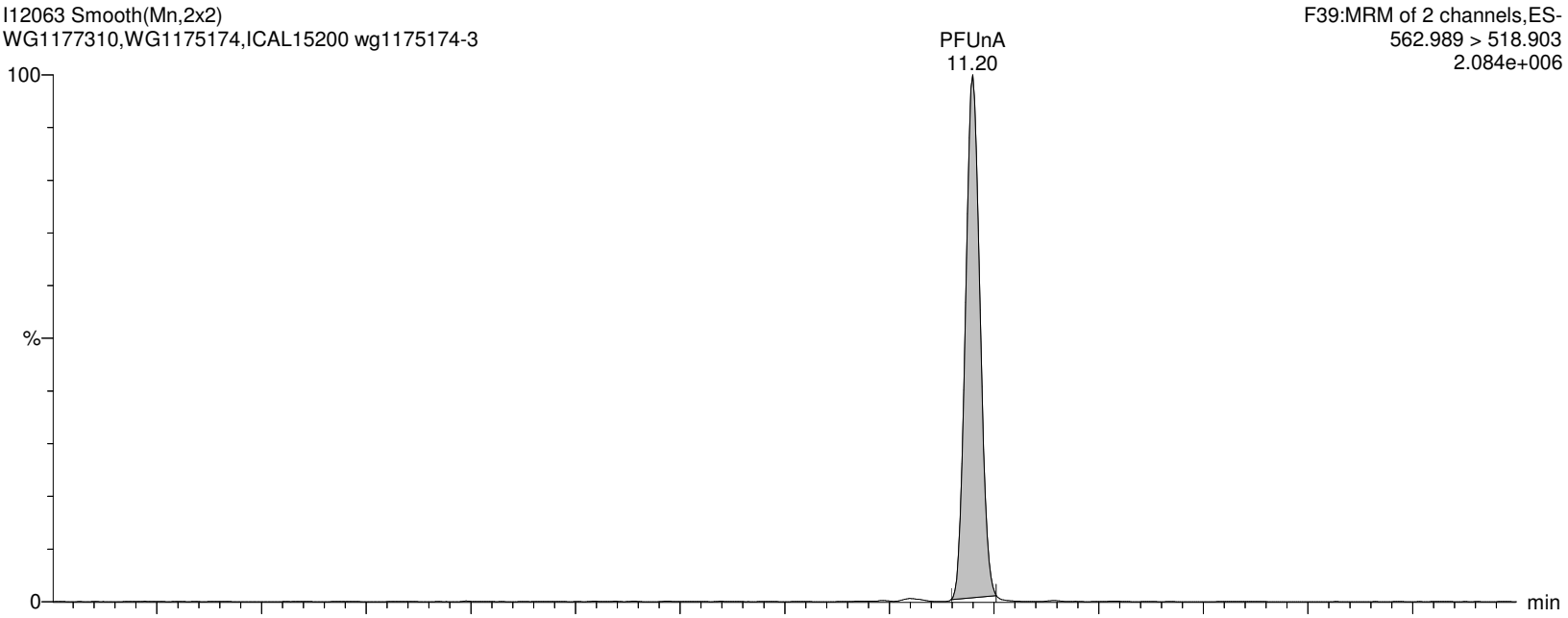

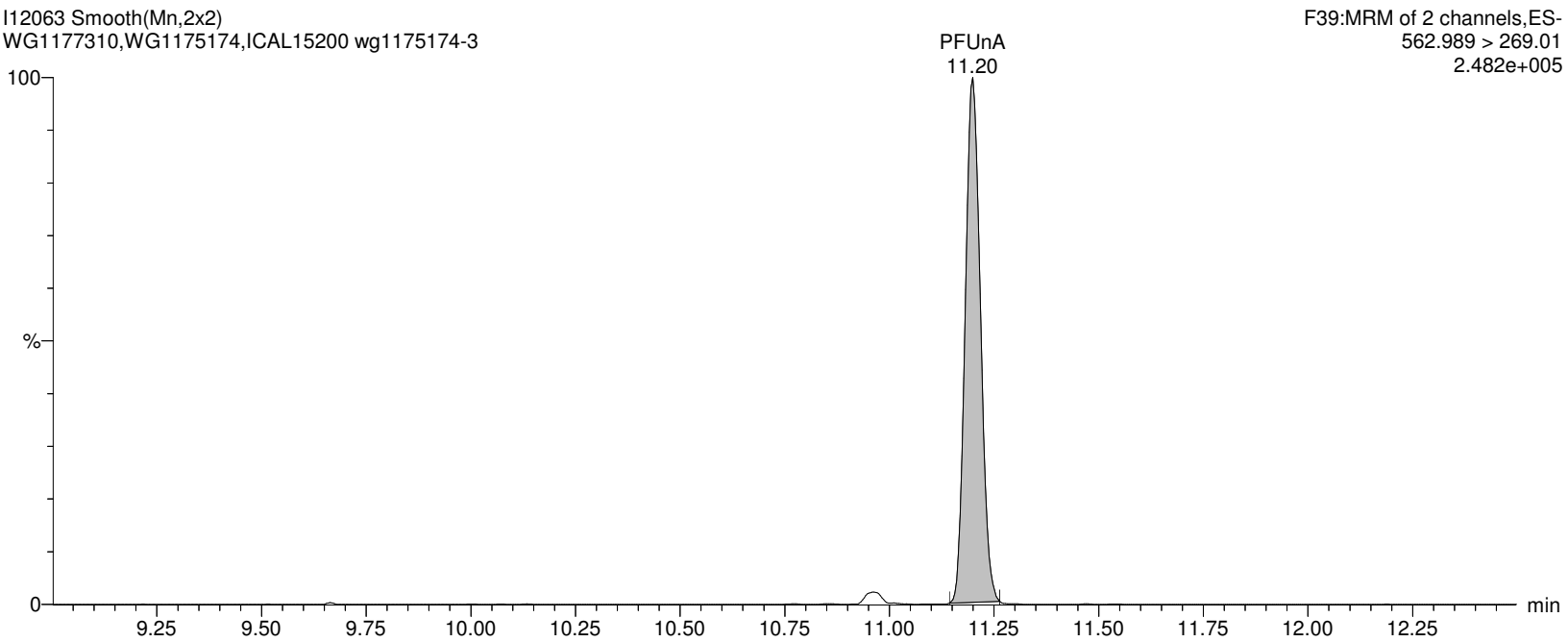

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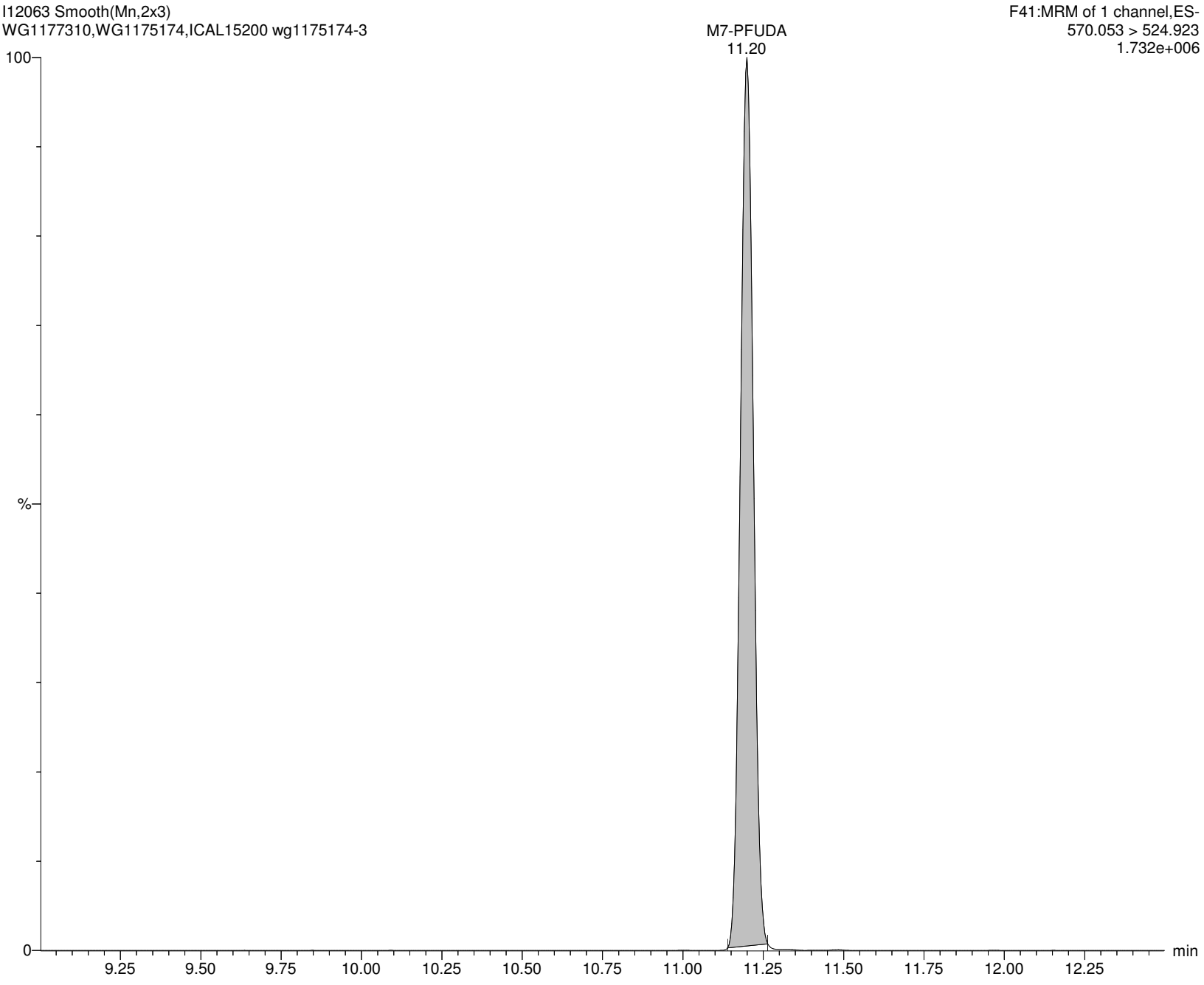

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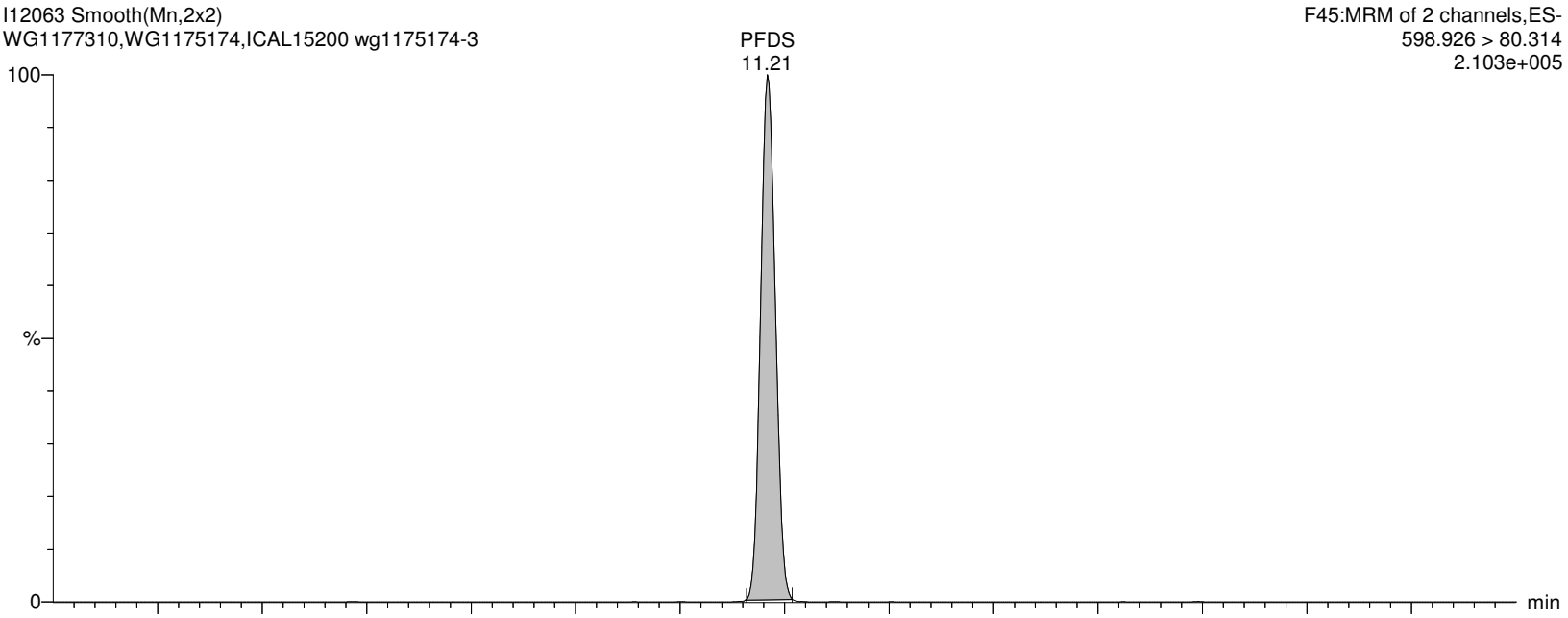

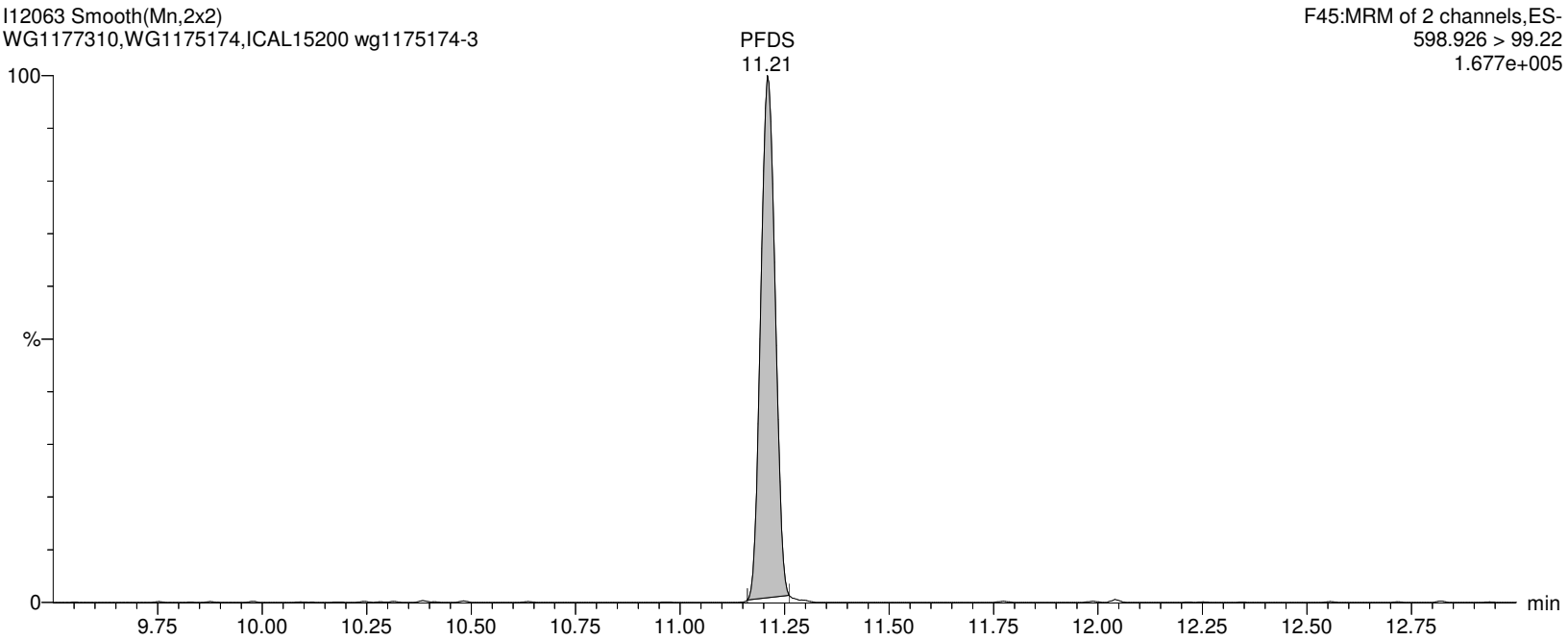

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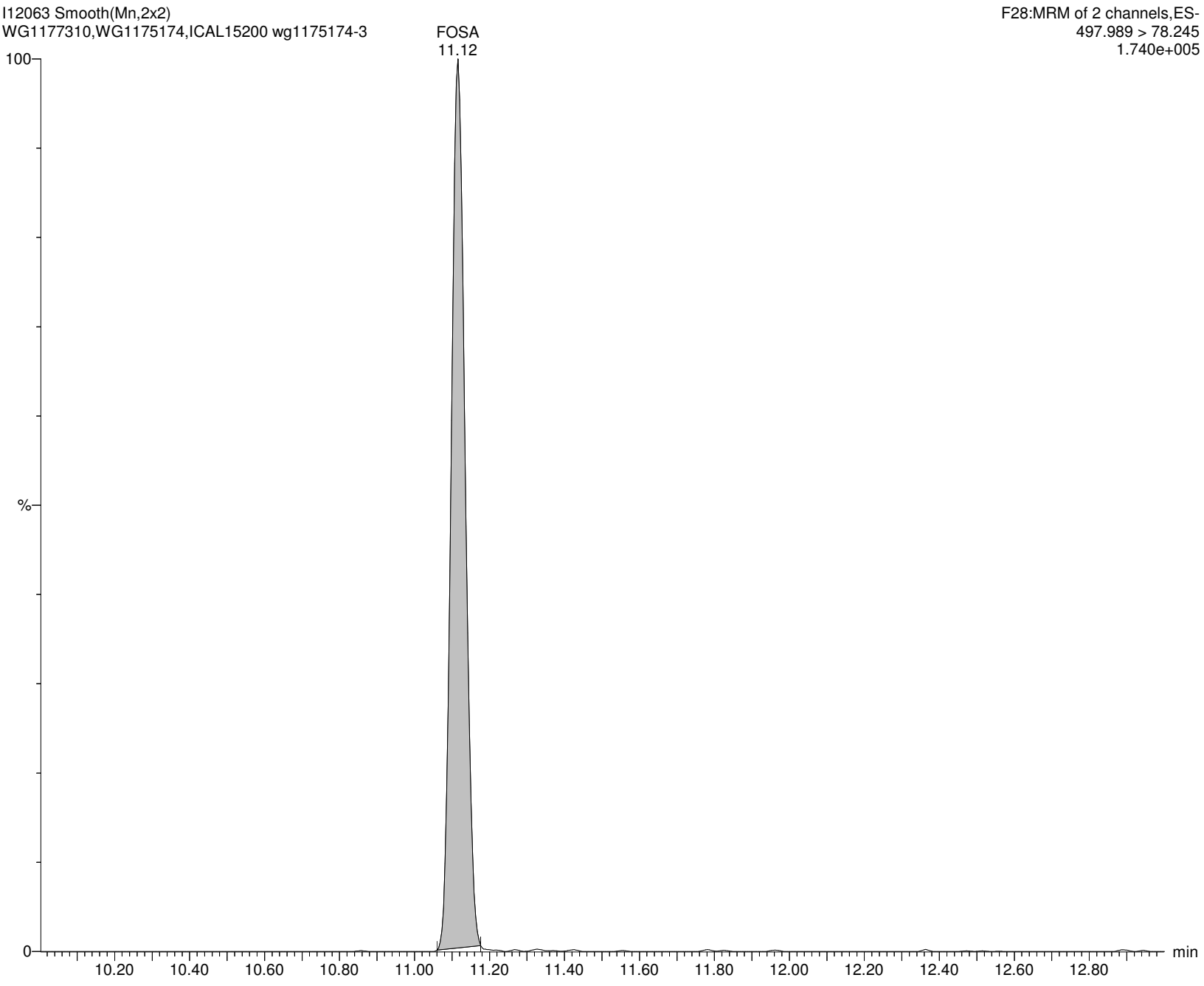

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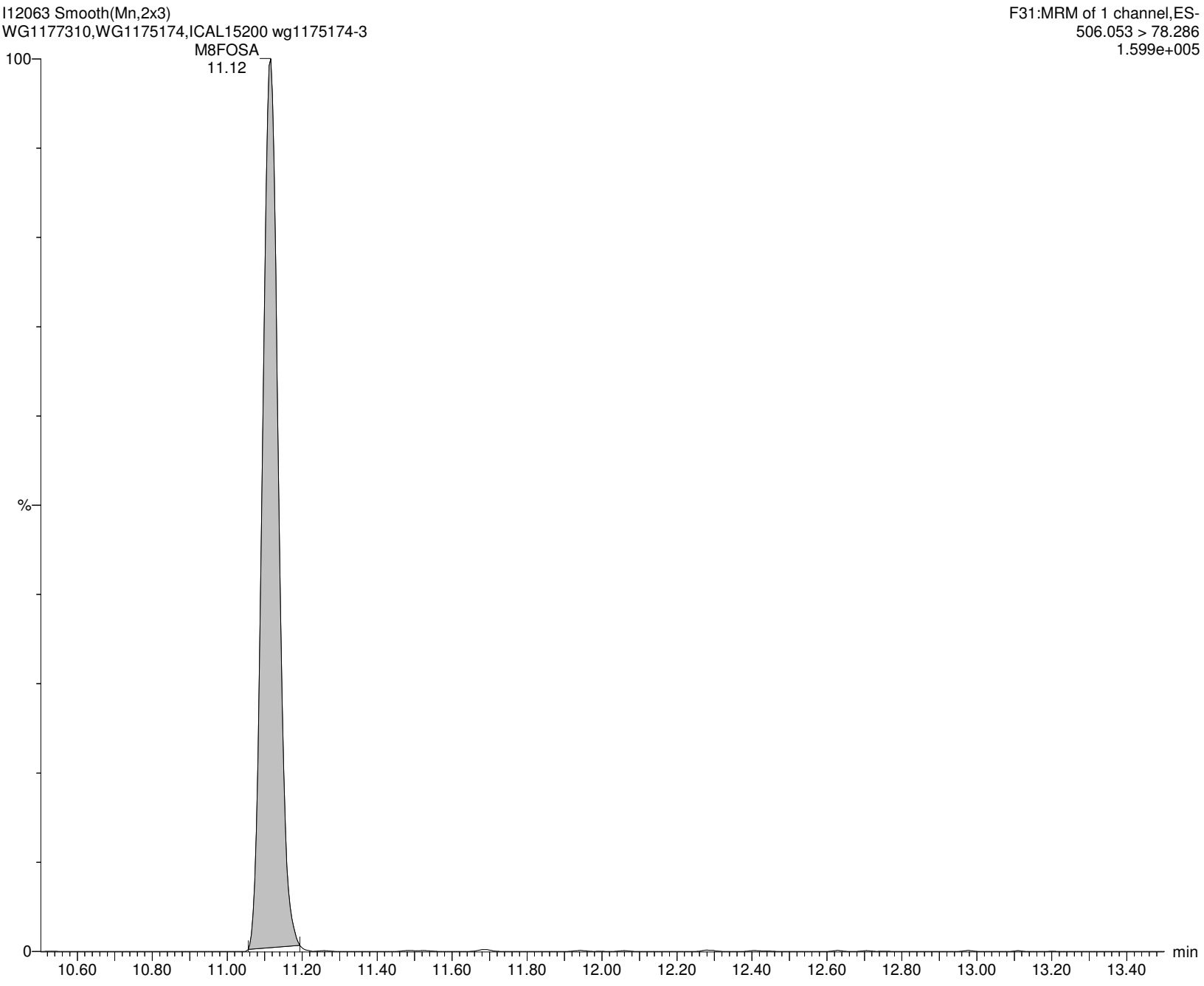
M8FOSA



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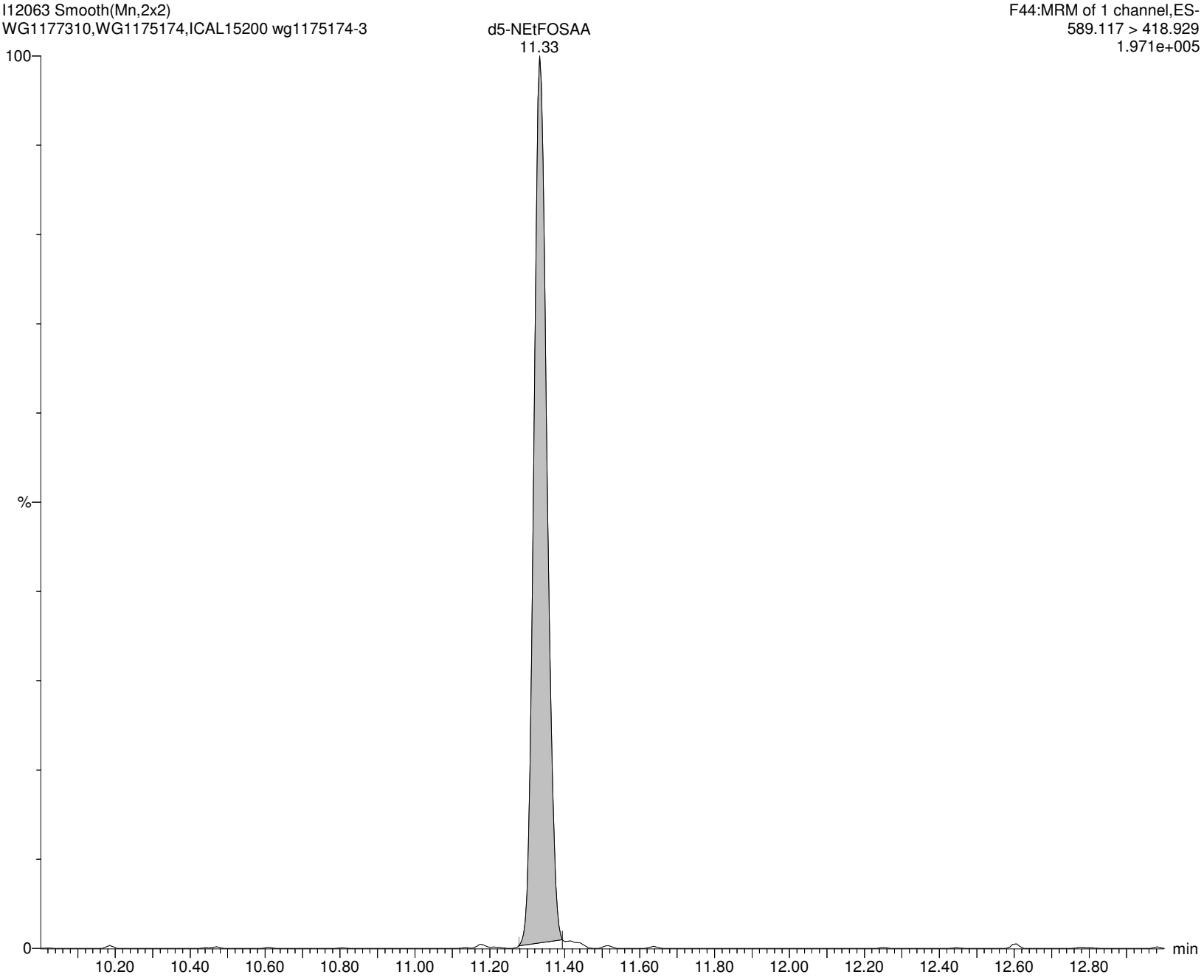

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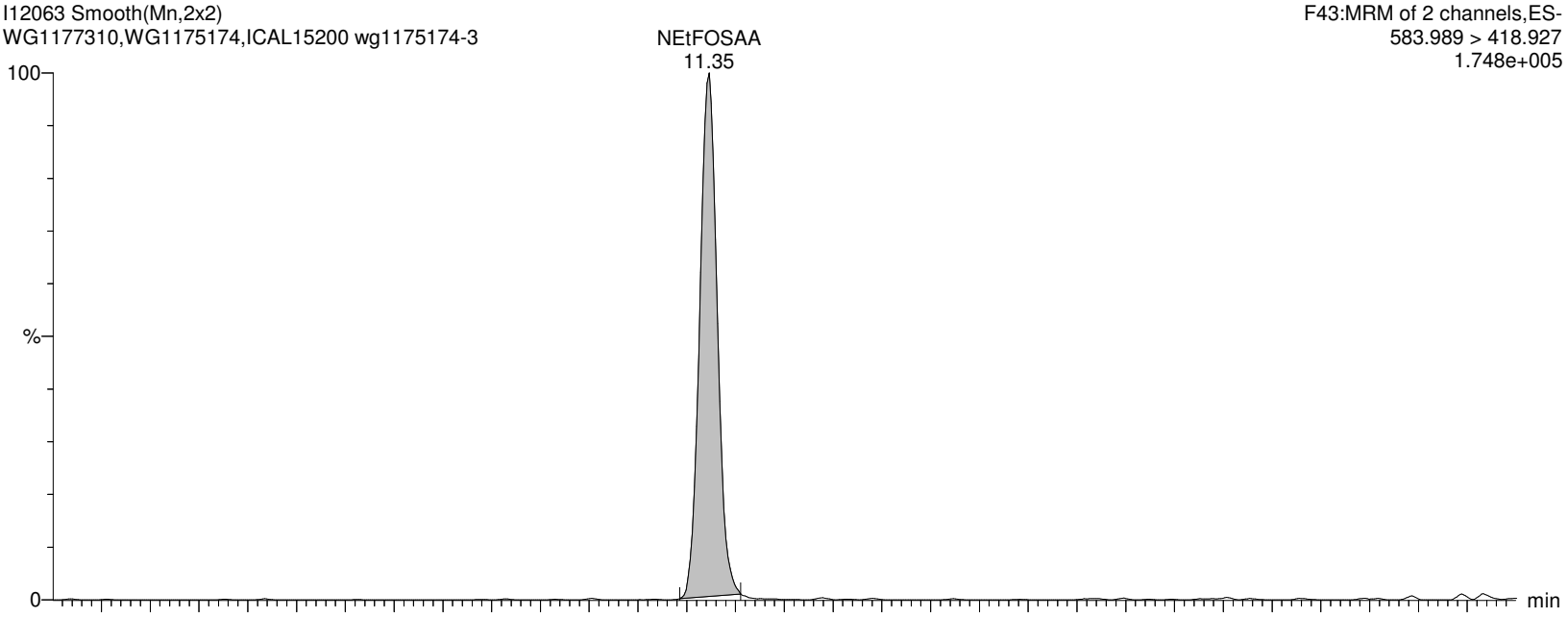

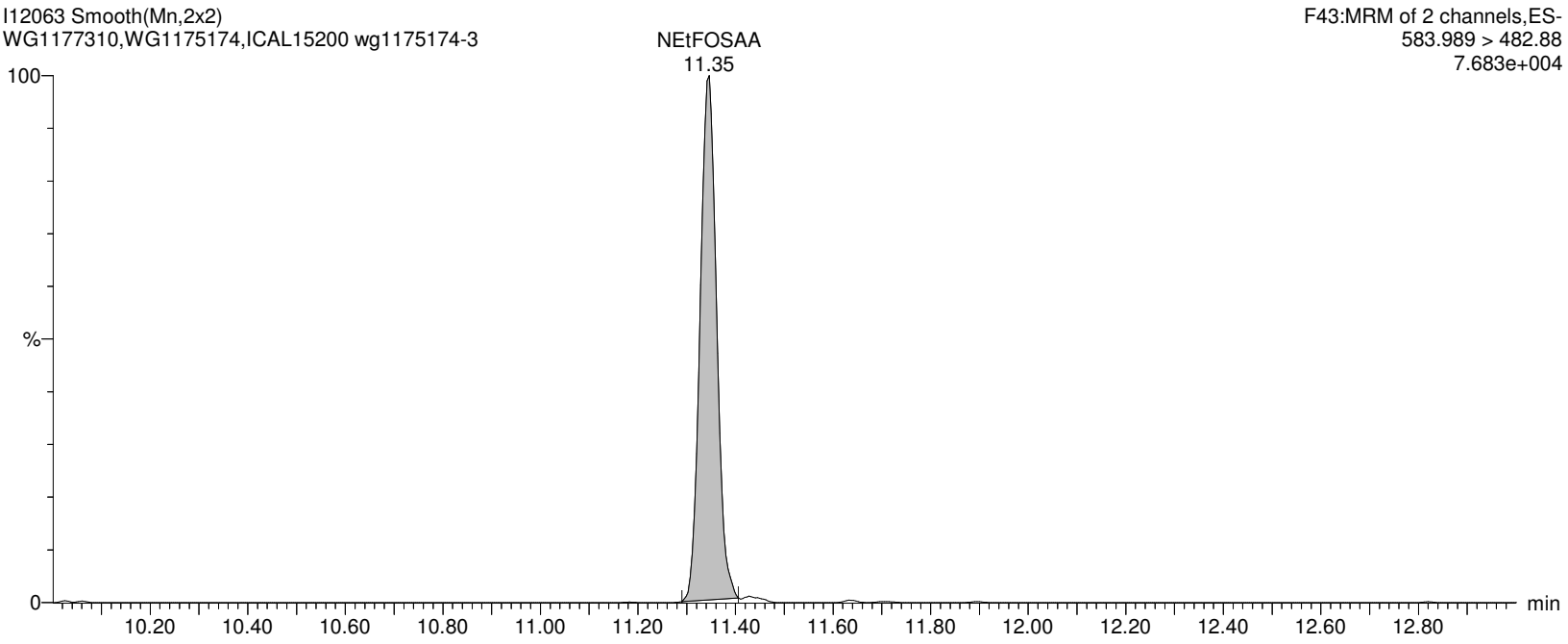

all concentration units in (ng/mL)

Alpha Analytical Inc.
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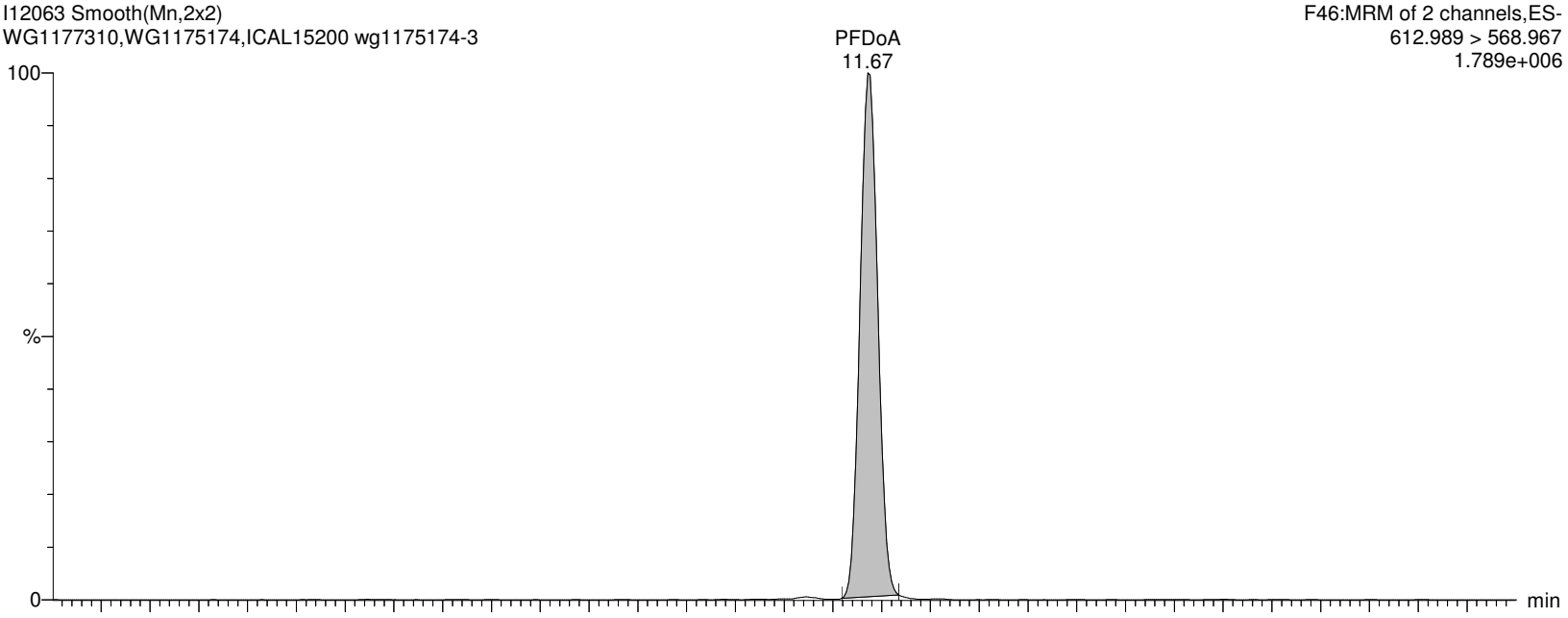
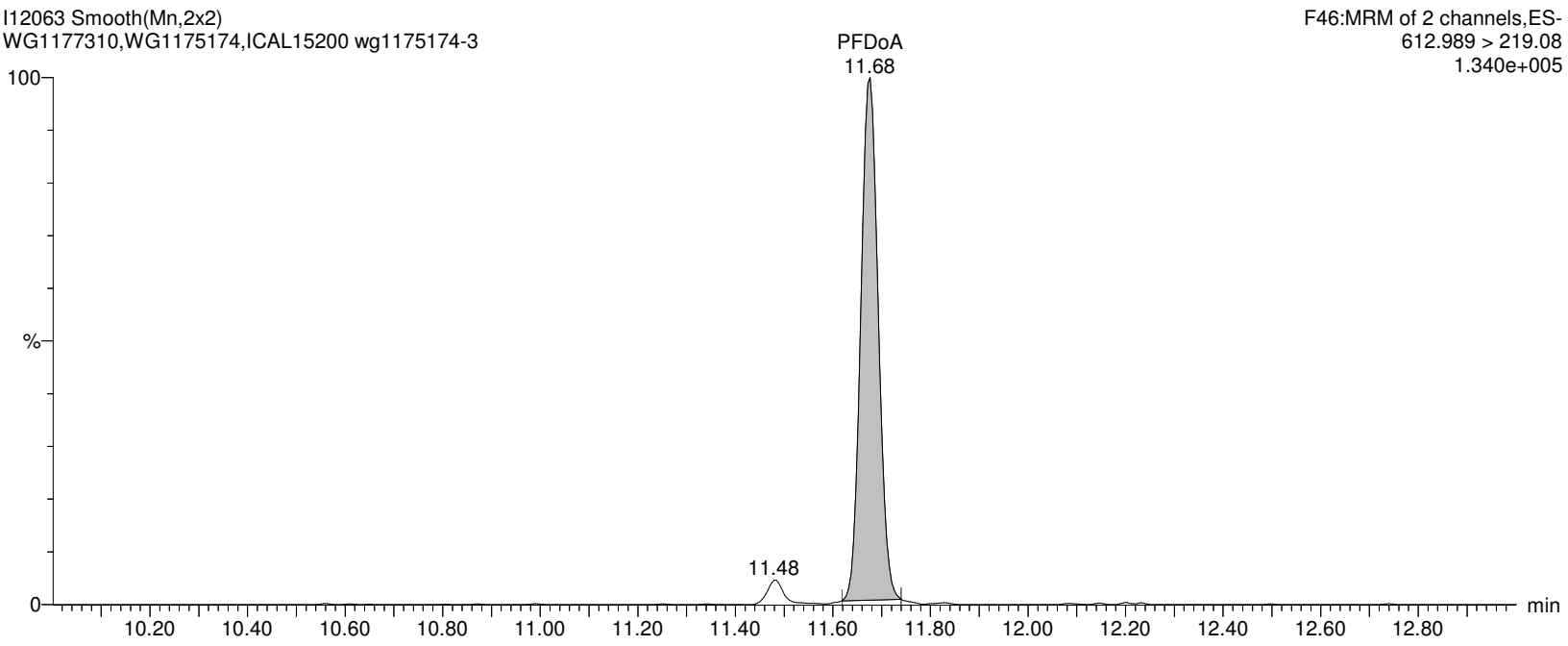
Last Altered: Friday, November 09, 2018 06:40:27 Eastern Standard Time
Printed: Friday, November 09, 2018 06:41:08 Eastern Standard Time

Name: I12063
ID: wg1175174-3
Date: 08-Nov-2018
Time: 14:01:57
Description: WG1177310,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181108_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFDoA





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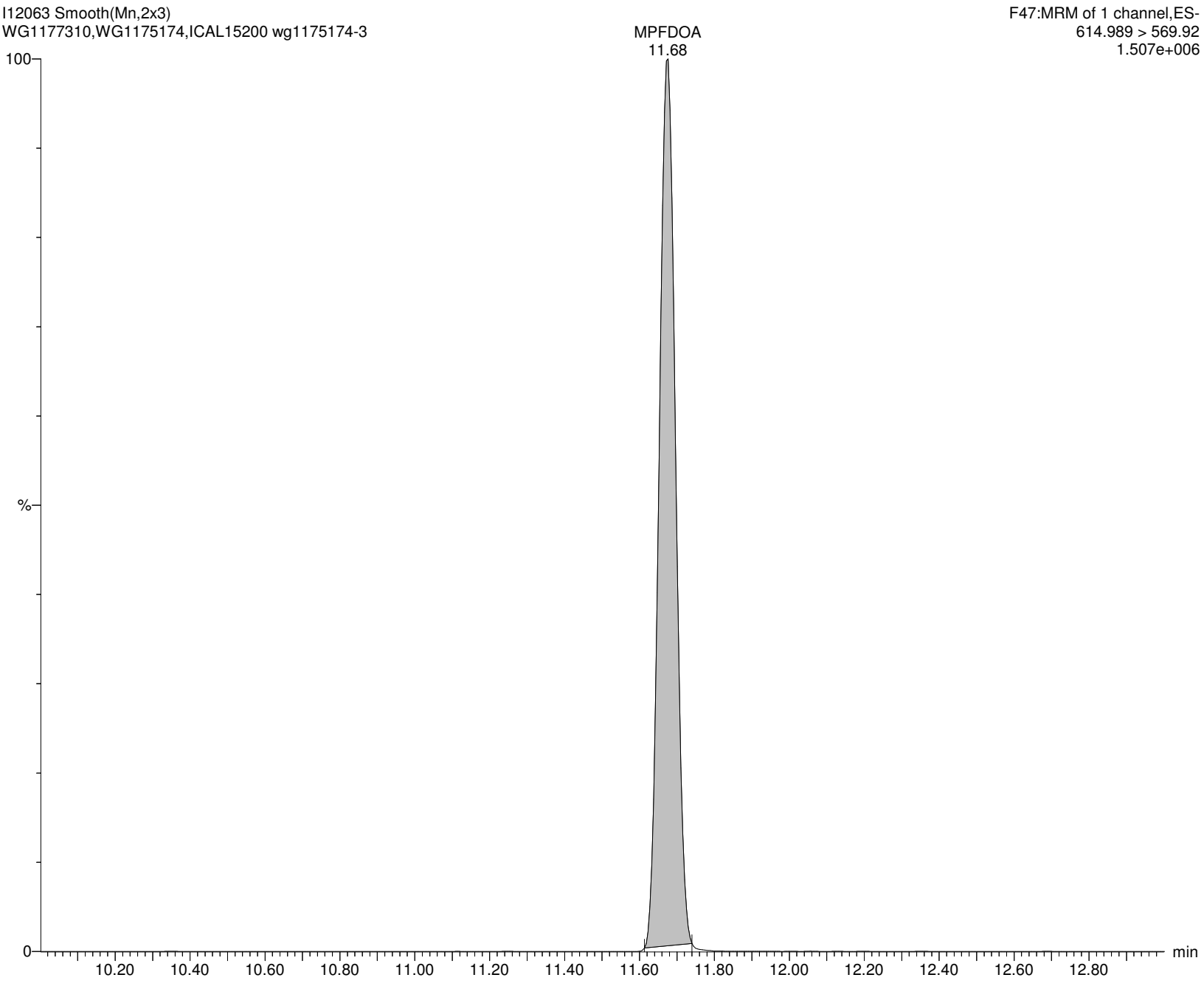

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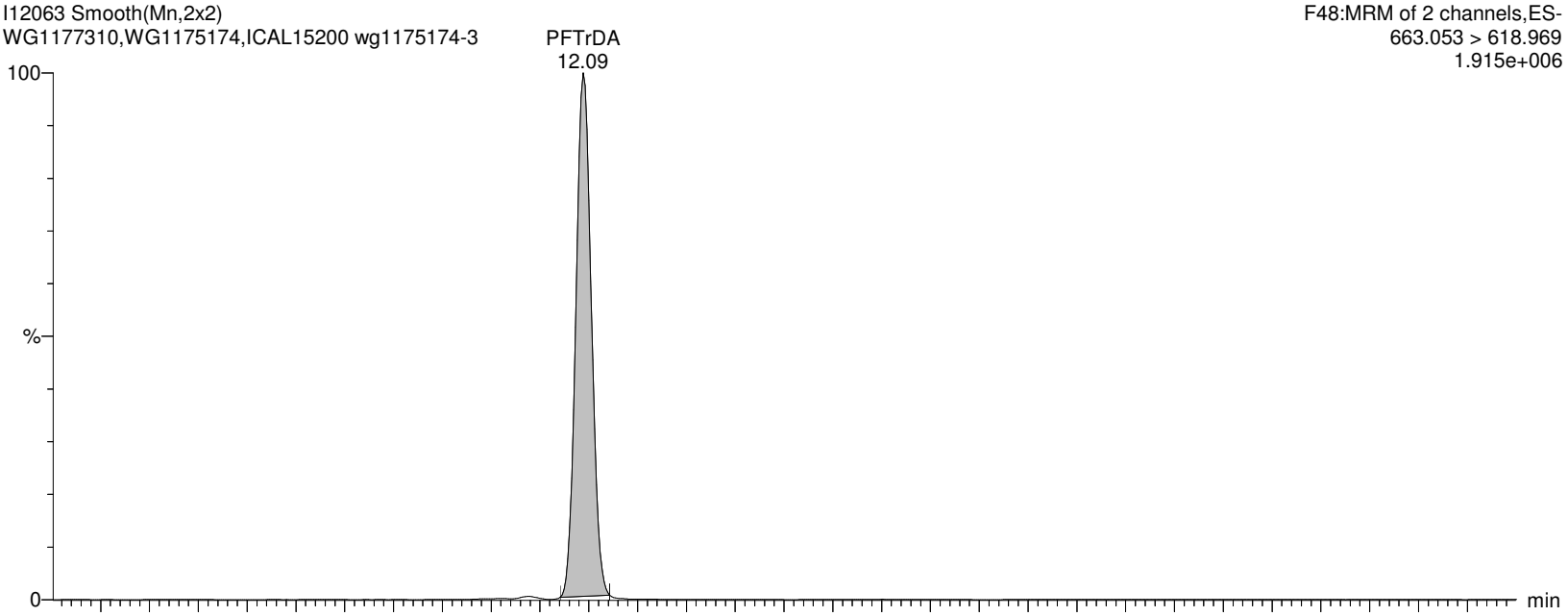

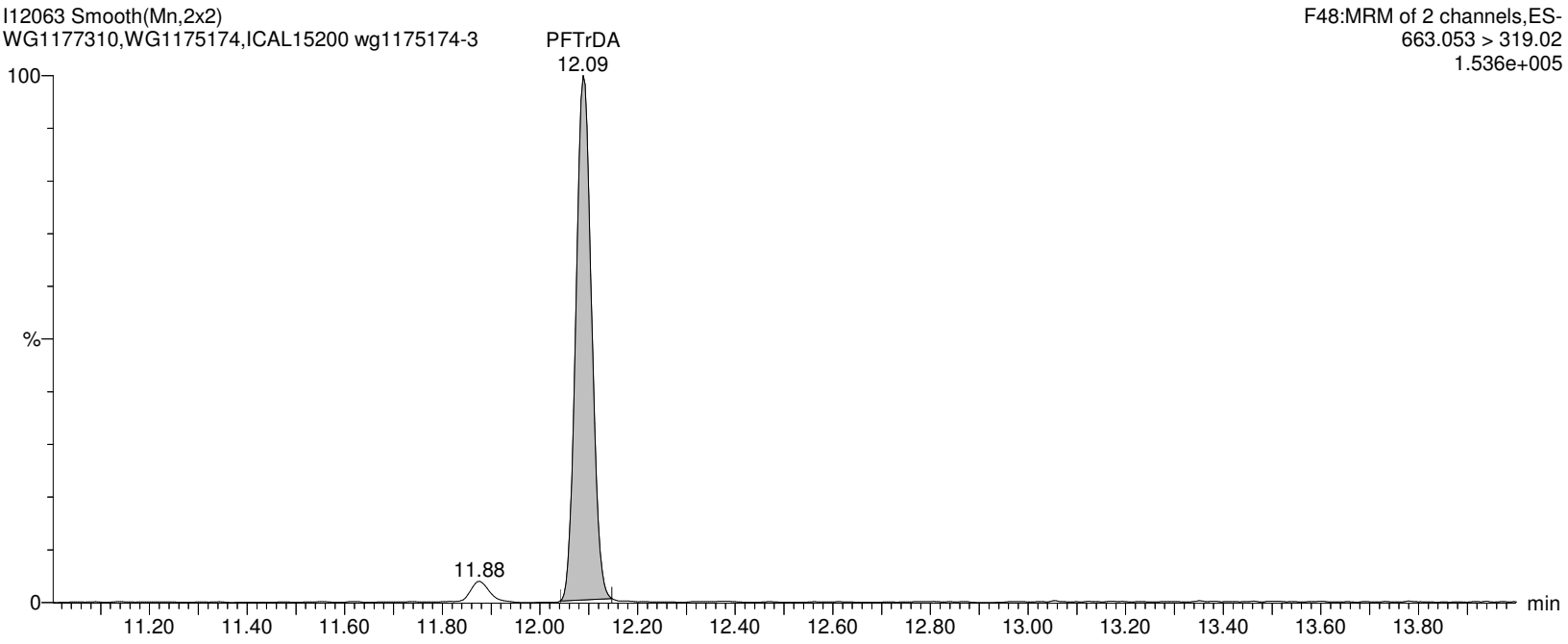

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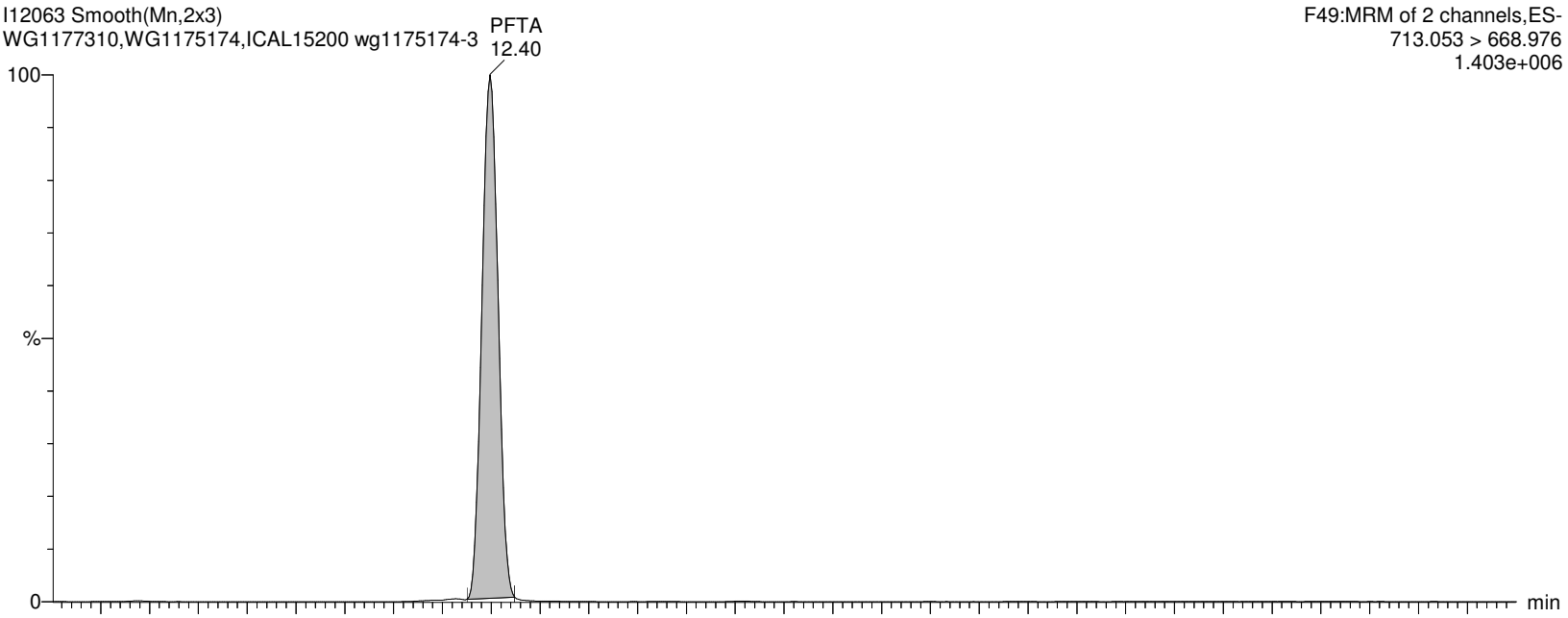

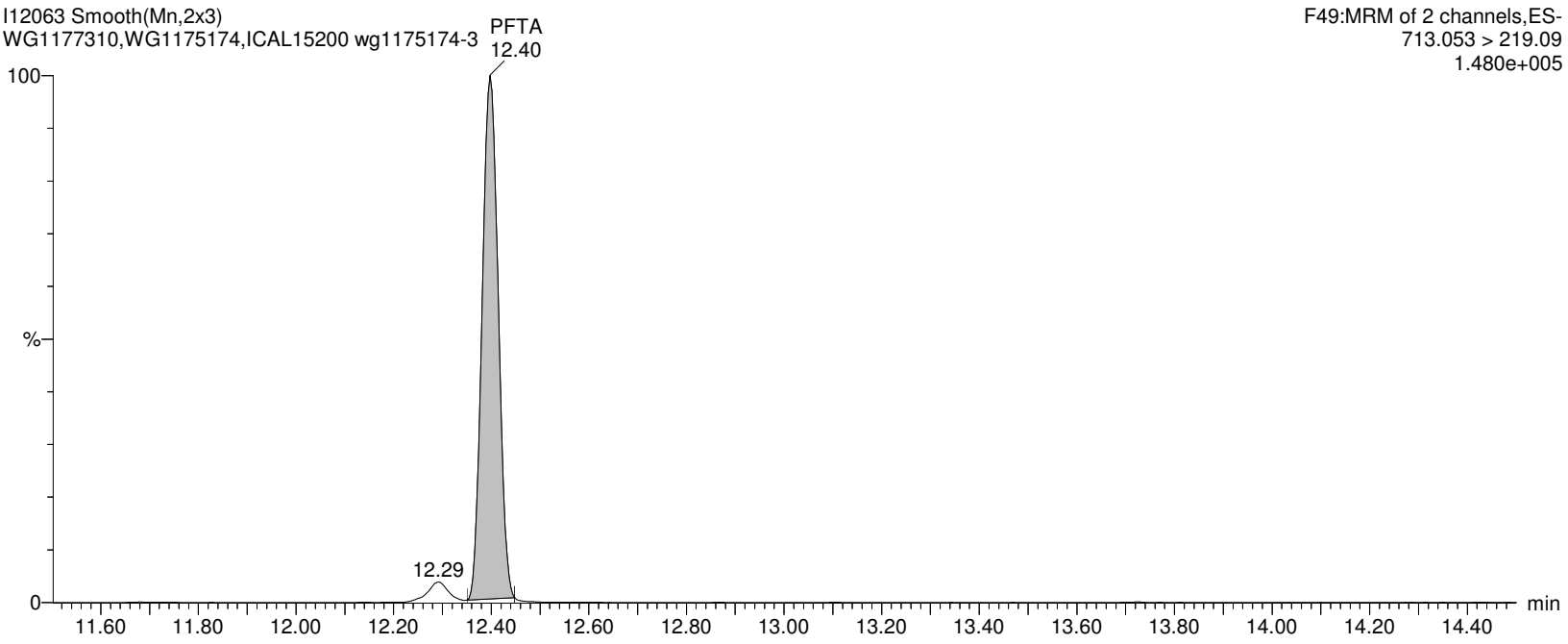

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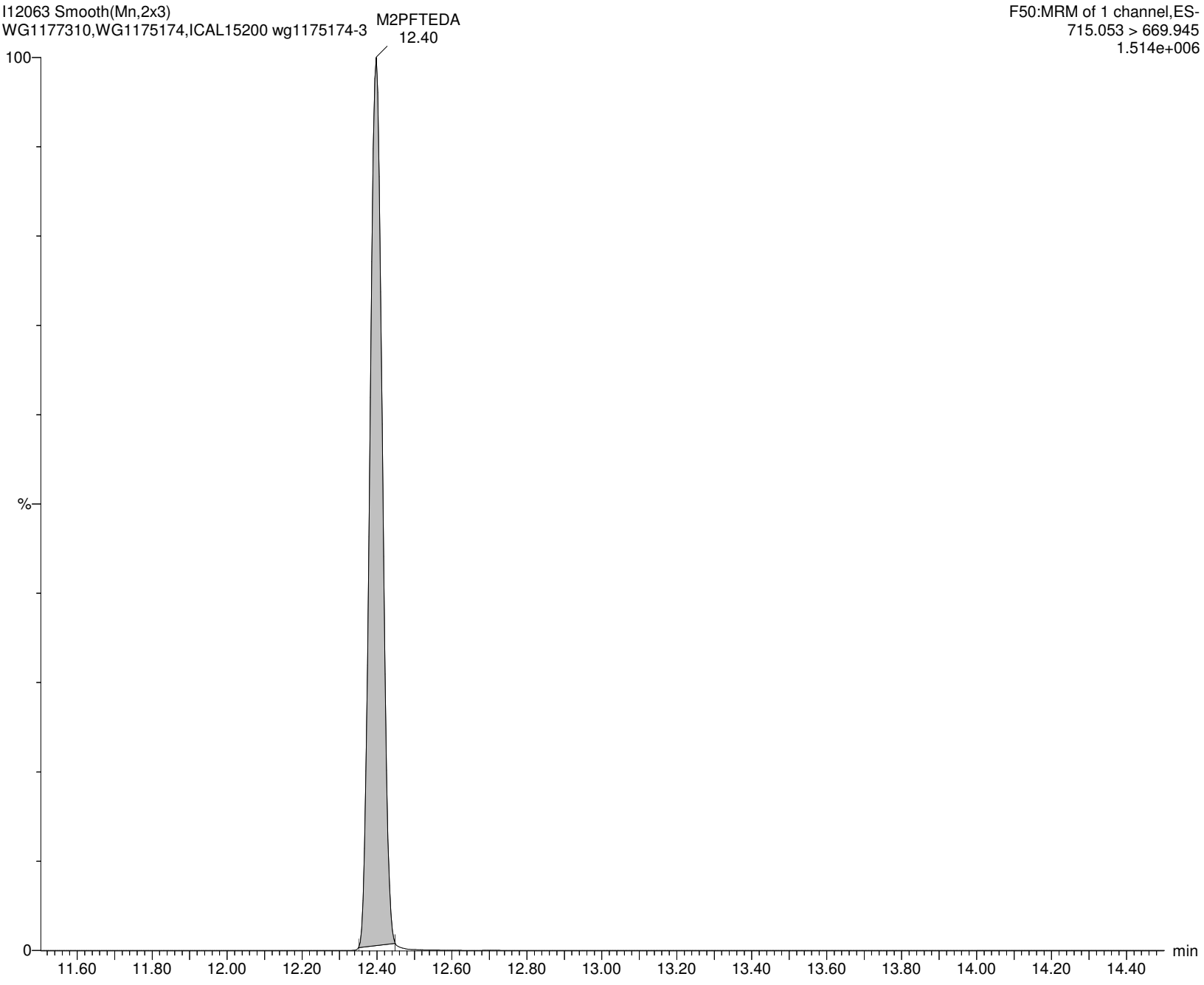

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:49 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1175174-4
Name: I12150
Date: 10-Nov-2018
Time: 06:18:41
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	44305		11.425		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	39601		4.278		na	42.8
3	MPFBA	INT STD	2.15	216.926 > 172.137	44362		11.793		na	117.9
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	61784		10.121		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	64774		13.343		na	133.4
6	PFBS	375-73-5	5.80	298.989 > 80.295	12948		11.500		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	12700		9.986		na	99.9
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	7024		9.593	1.94	YES	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	7413		9.398		na	94.0
10	PFHxA	307-24-4	7.06	312.989 > 269.028	88132		10.753	20.07	NO	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	84455		10.701		na	107.0
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	13589		8.405	2.03	NO	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	104715		9.624	5.30	NO	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	110525		11.909		na	119.1
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	1773		1.166	1.90	NO	
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	10942		8.303	1.47	NO	
17	PFHxS	355-46-4		398.926 > 80.295	12715		9.469		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	9345		13.230		na	132.3
19	br-PFOA	335-67-1	9.05	412.989 > 368.9	1578		0.153	4.01	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	102168		9.903	8.93	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	109554		5.802		na	58.0
22	PFOA	335-67-1		412.989 > 368.9	103746		10.056		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	105746		11.969		na	119.7
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	4510		9.775		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4721		7.211		na	72.1
26	PFHpS	375-92-8	9.37	448.926 > 80.257	6208		9.199	0.85	NO	
27	PFNA	375-95-1	10.02	462.989 > 418.931	75000		9.722	4.42	NO	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	92368		10.482		na	104.8
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	3355		2.100	3.67	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	7653		6.722	1.71	YES	
31	PFOS	1763-23-1		498.989 > 80.294	11008		8.822		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10201		6.297		na	63.0
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10900		11.457		na	114.6
34	PFDA	335-76-2	10.65	513.053 > 468.906	74214		10.314	6.33	NO	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	81822		5.504		na	55.0
36	M6PFDA	INT STD	10.65	519.053 > 473.931	81113		10.979		na	109.8
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	3041		9.681		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2607		6.781		na	67.8
39	PFNS	68259-12-1	10.68	548.989 > 80.249	8323		10.939	1.35	NO	

all concentration units in (ng/mL)

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ID: WG1175174-4
Name: I12150
Date: 10-Nov-2018
Time: 06:18:41
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	6312		7.925		na	79.3
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	5823		9.171		na	
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	68059		9.476	7.82	NO	
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	72287		11.690		na	116.9
44	PFDS	335-77-3	11.20	598.926 > 80.314	6896		10.834	1.15	NO	
45	FOSA	754-91-6	11.11	497.989 > 78.245	8477		8.505		na	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	10190		3.866		na	38.7
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5929		7.718		na	77.2
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	5268		8.690	2.62	YES	
49	PFDoA	307-55-1	11.66	612.989 > 568.967	65475		9.880	13.17	NO	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	71068		10.229		na	102.3
51	PFTrDA	72629-94-8	12.08	663.053 > 618.969	57233		10.270	12.05	NO	
52	PFTA	376-06-7	12.39	713.053 > 668.976	52084		10.348	9.70	NO	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	59947		11.649		na	116.5

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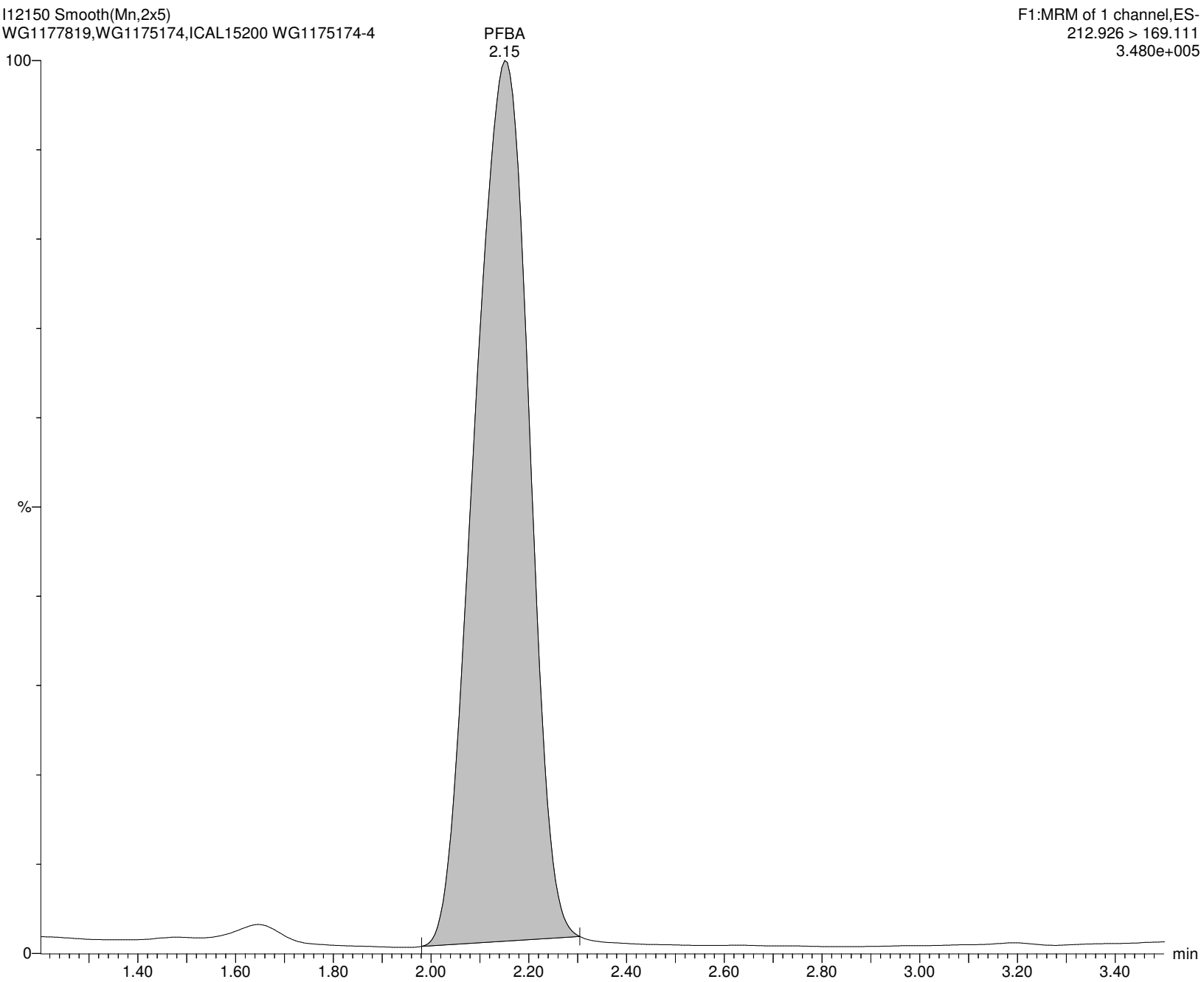

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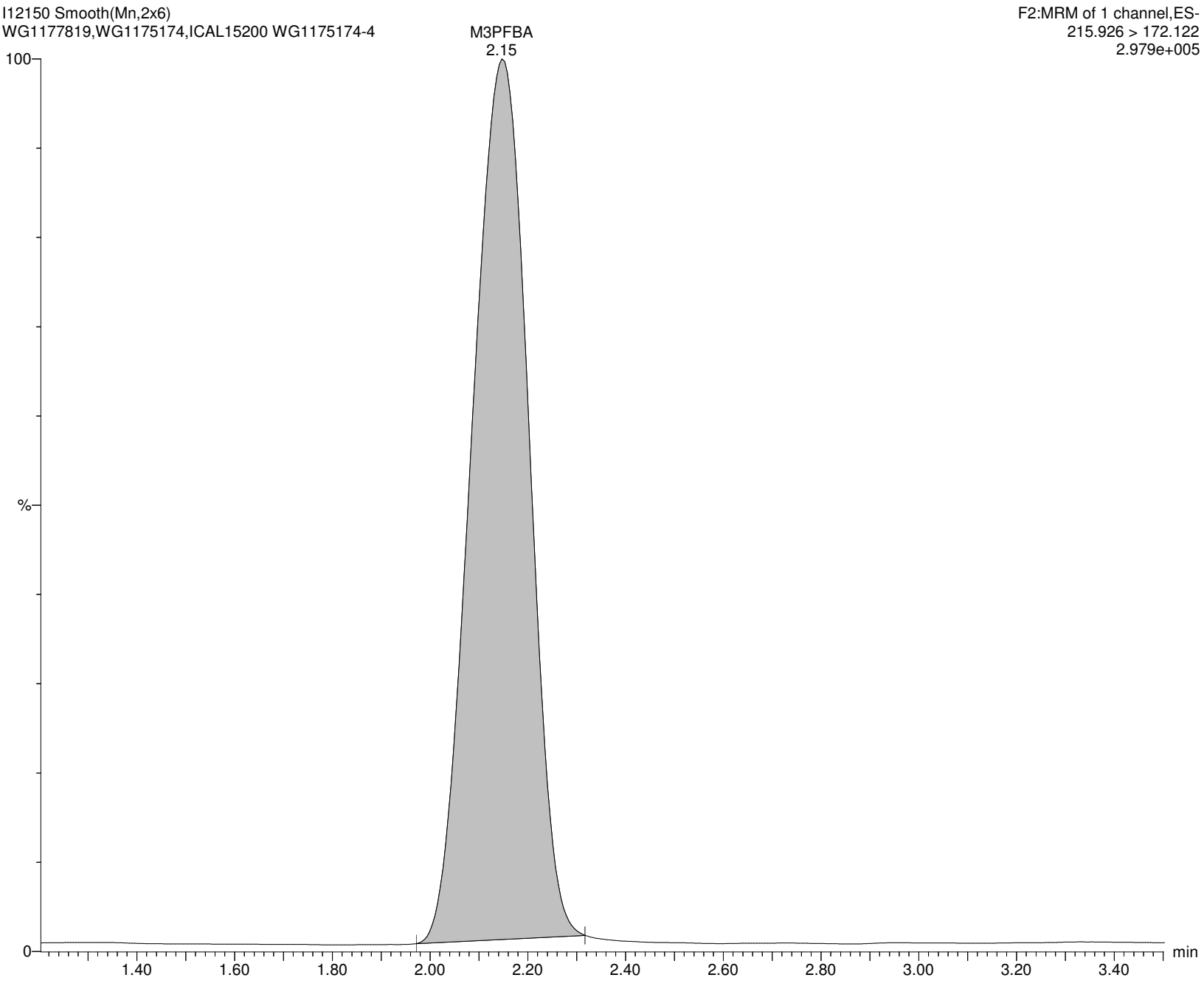

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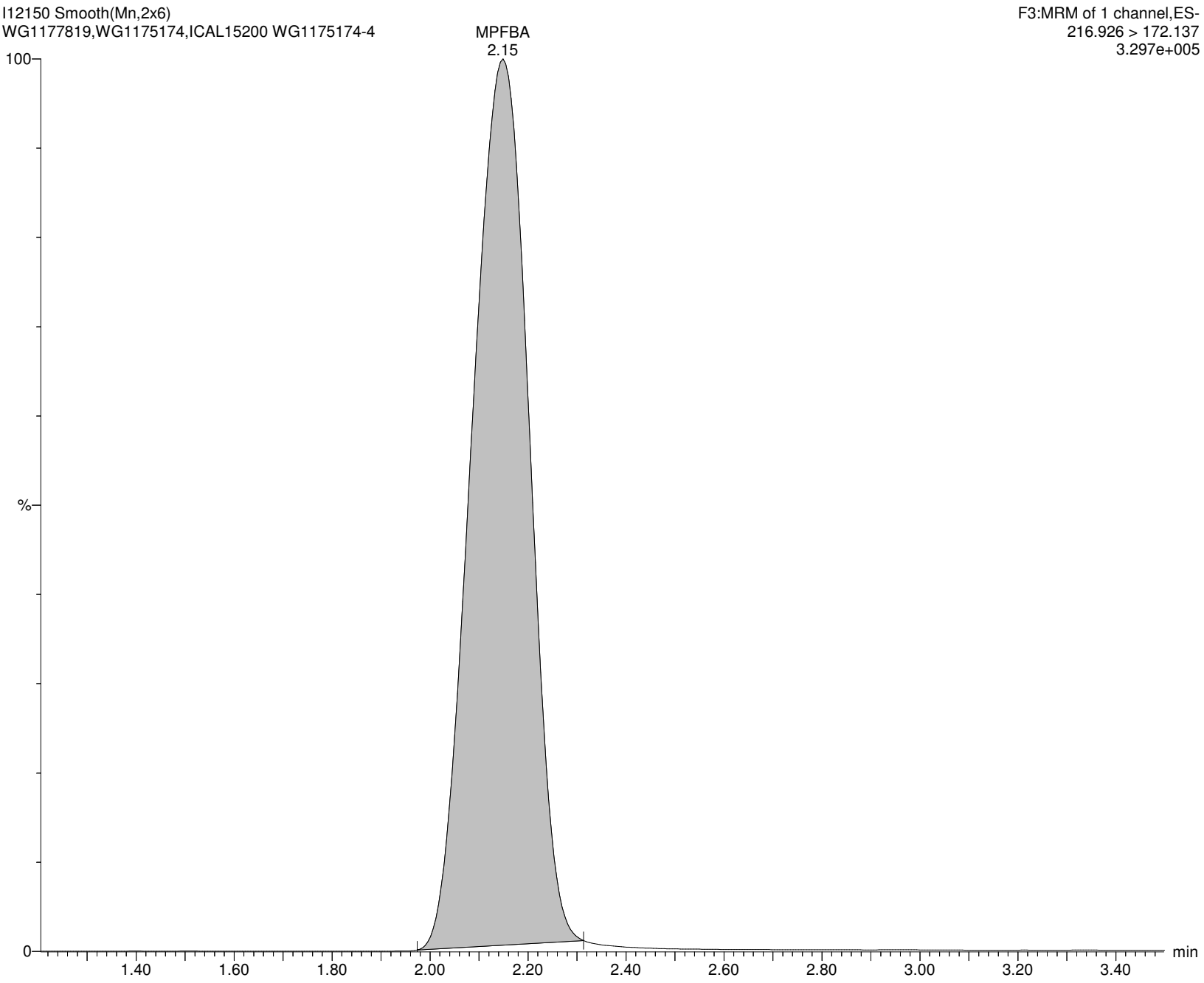

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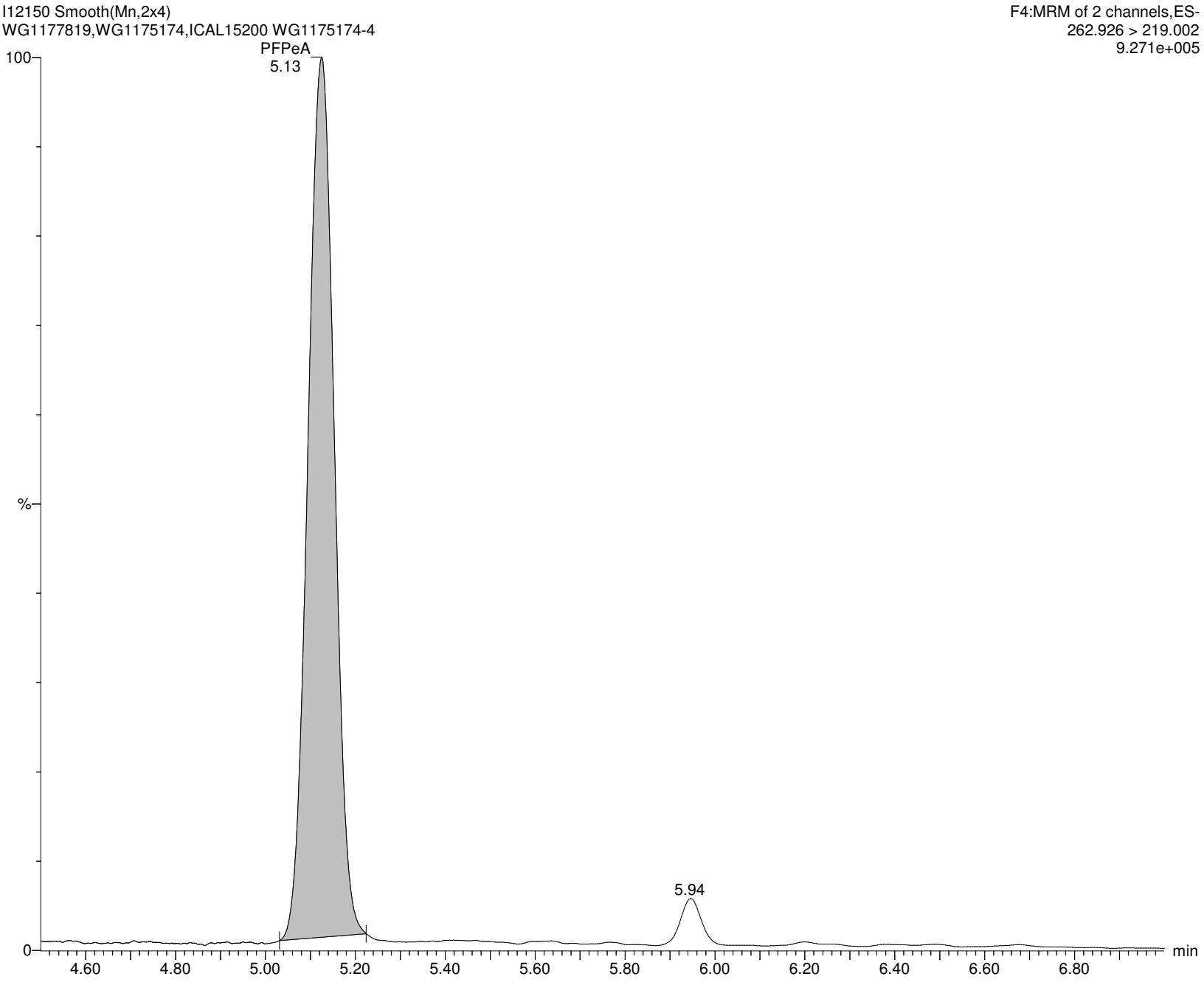

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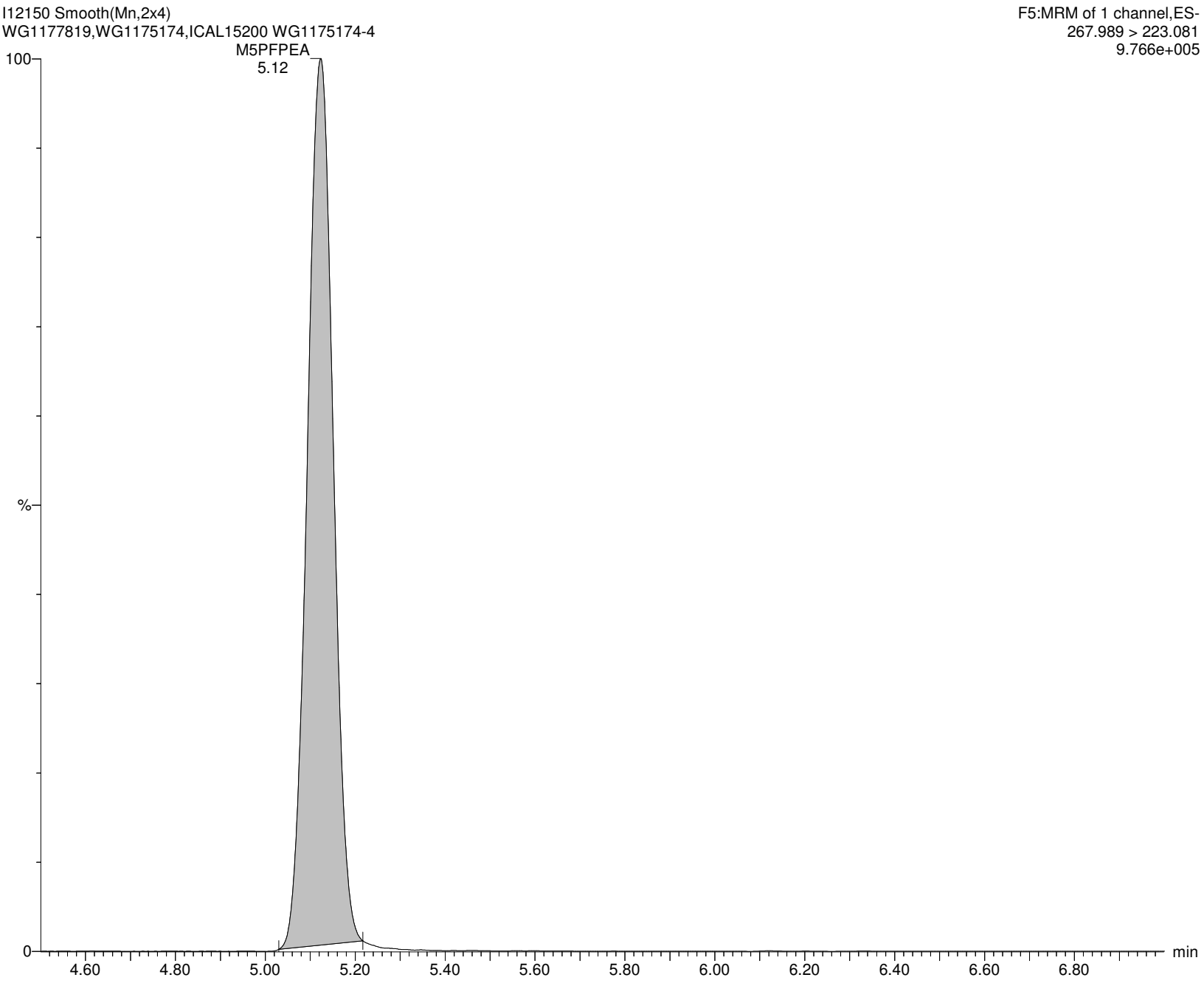
M5PFPEA



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ID: WG1175174-4
Date: 10-Nov-2018
Time: 06:18:41
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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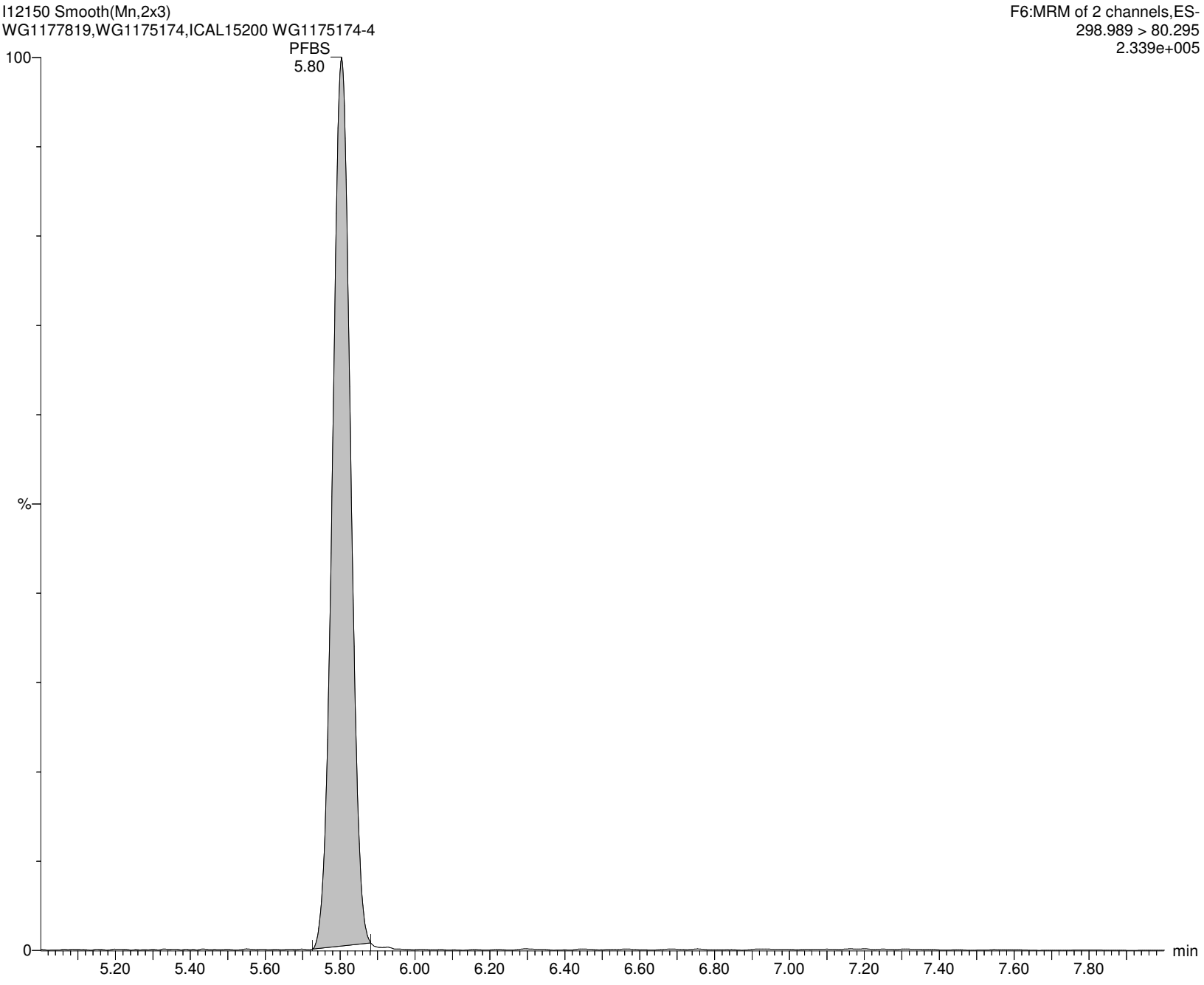

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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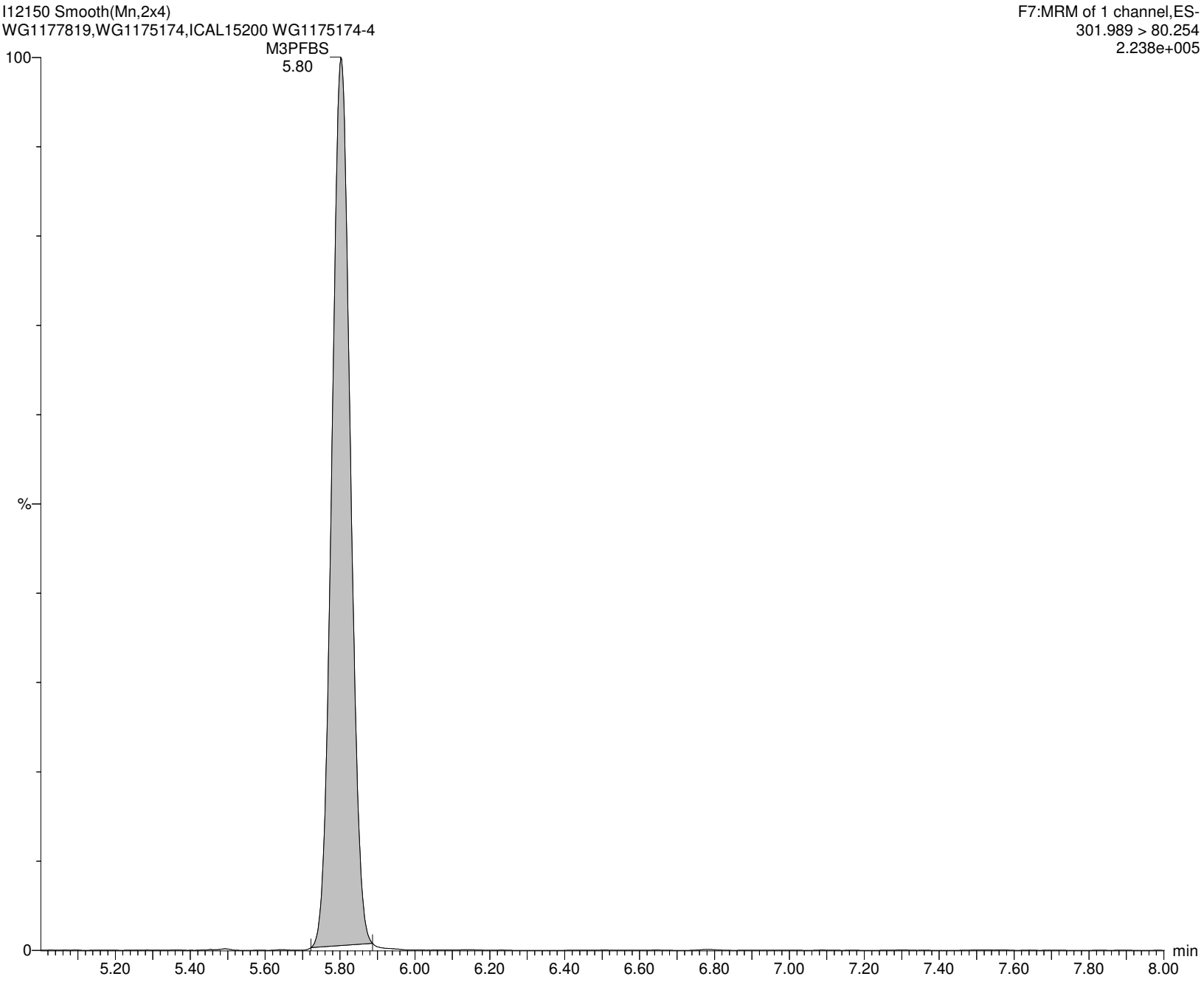

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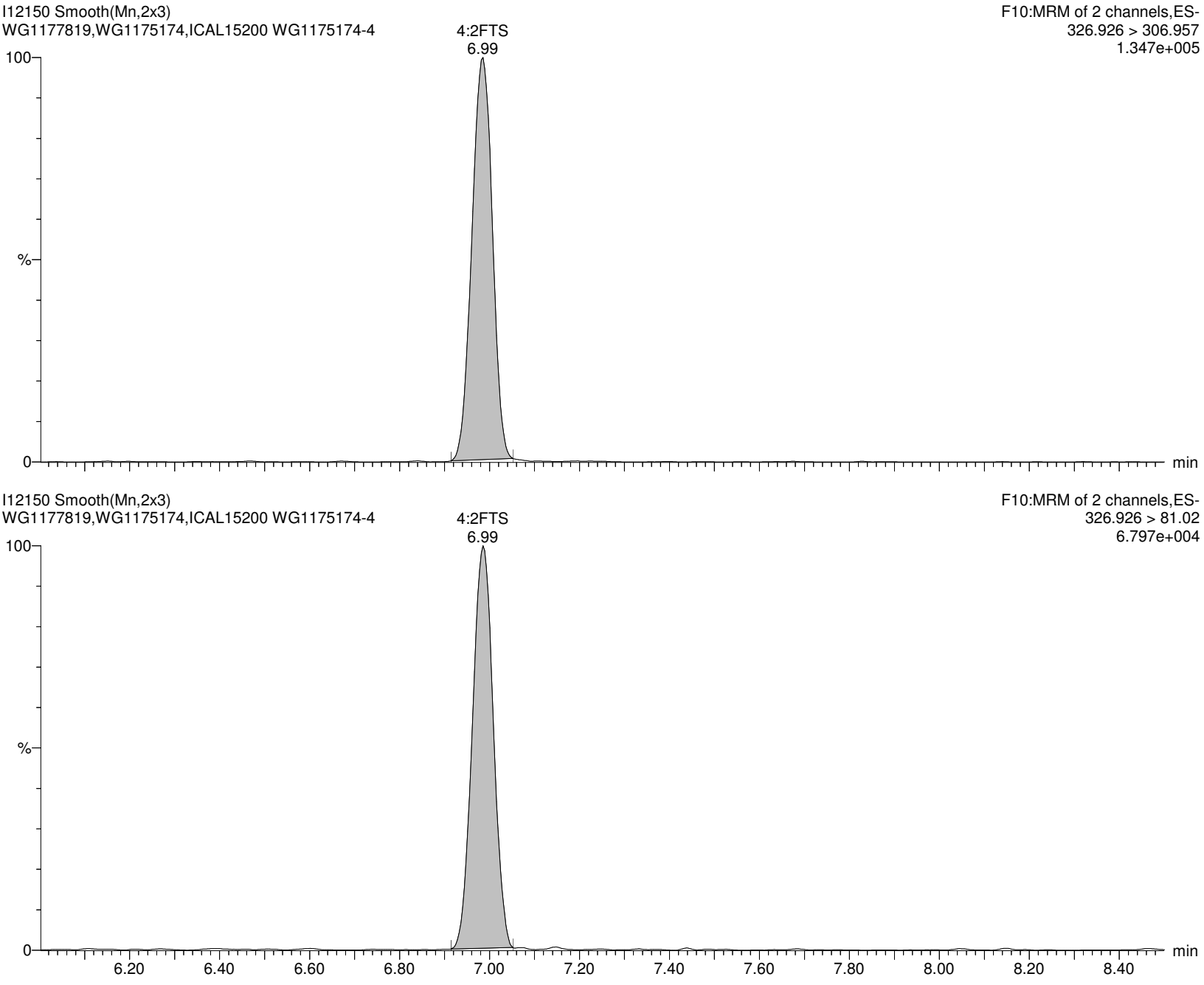

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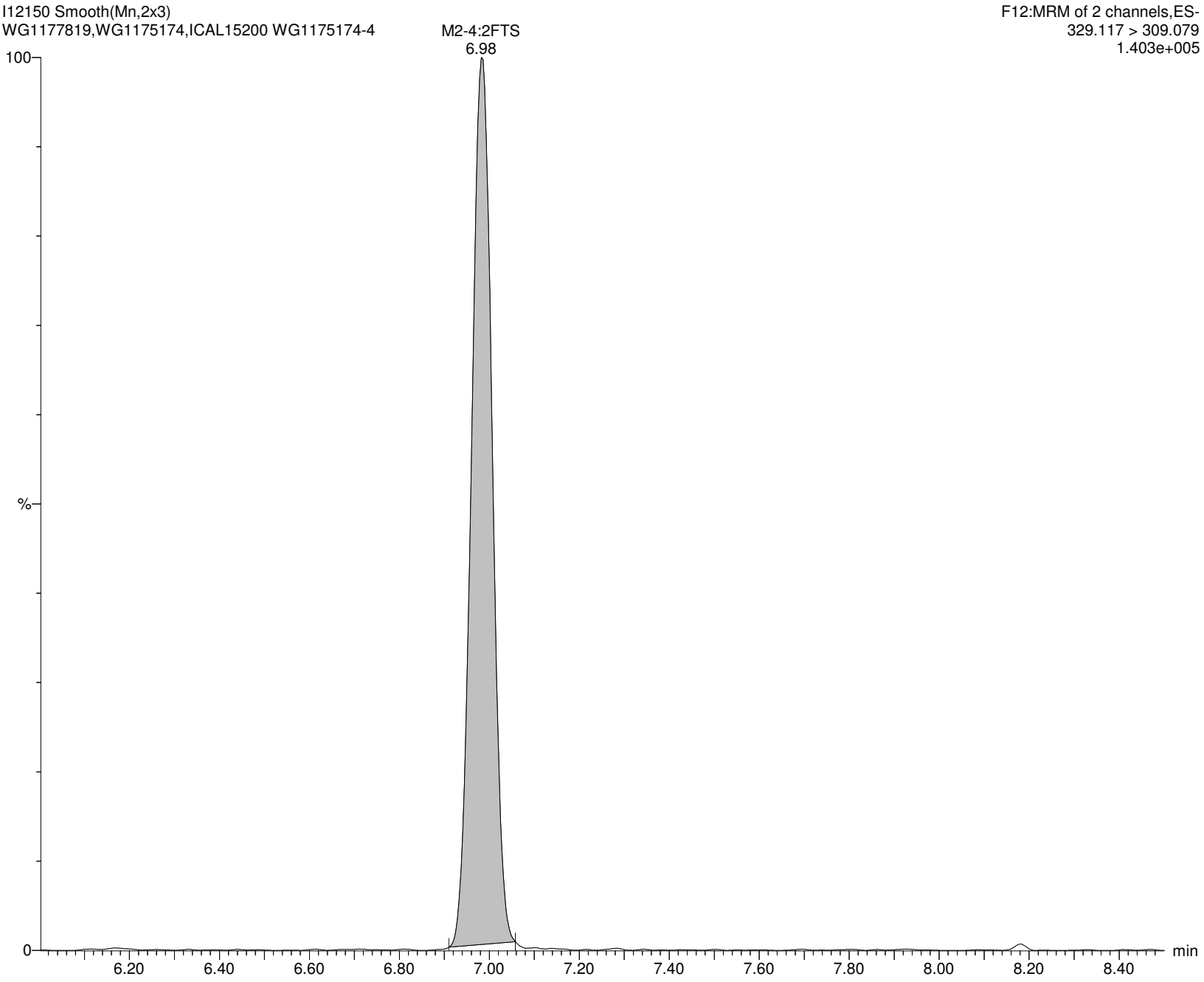

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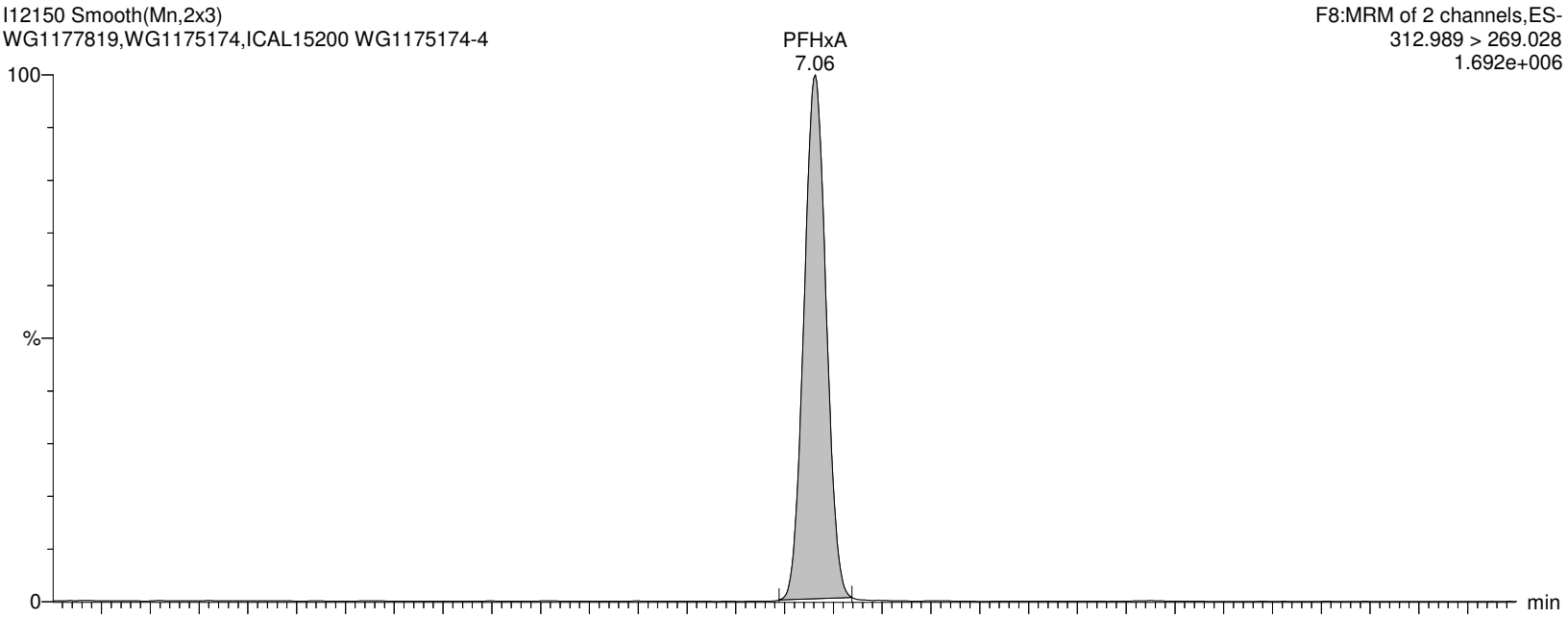

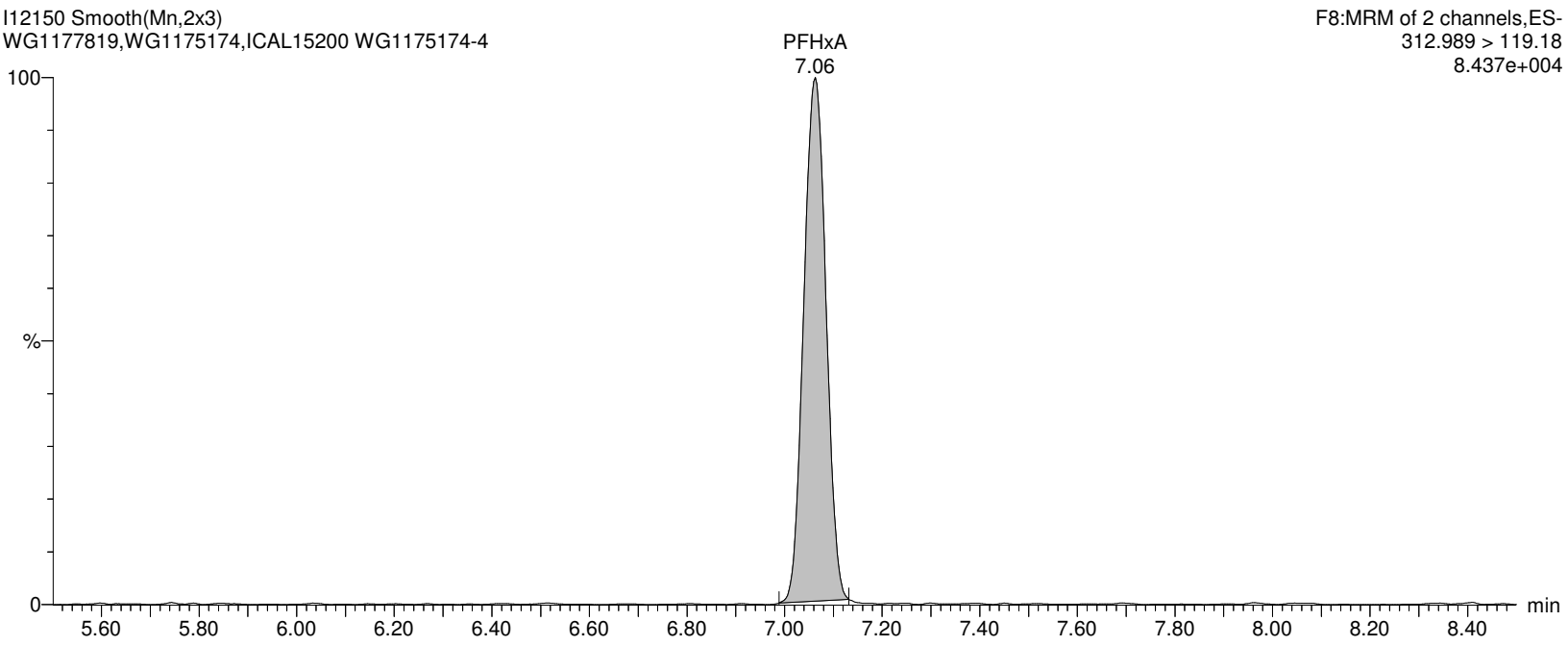

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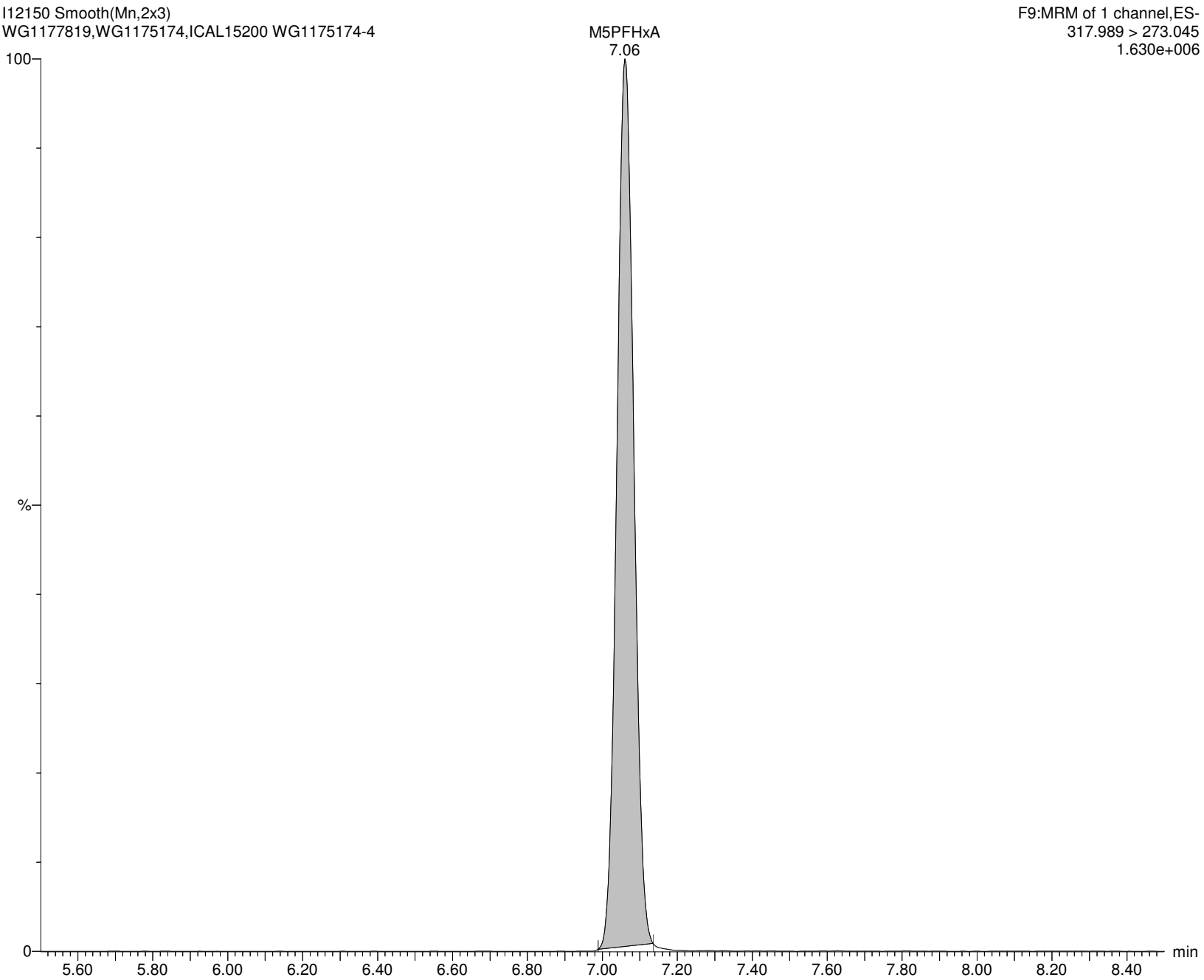

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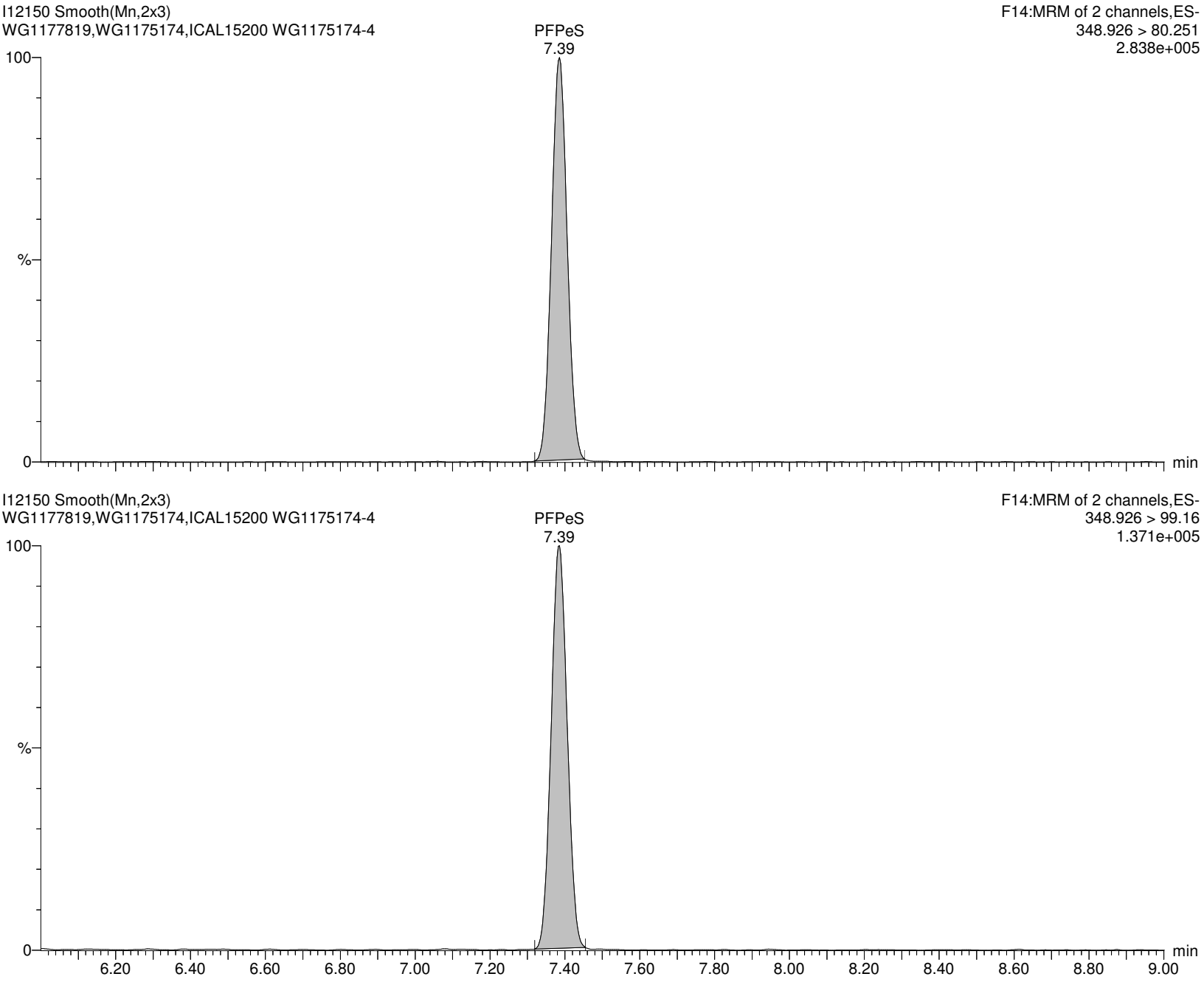

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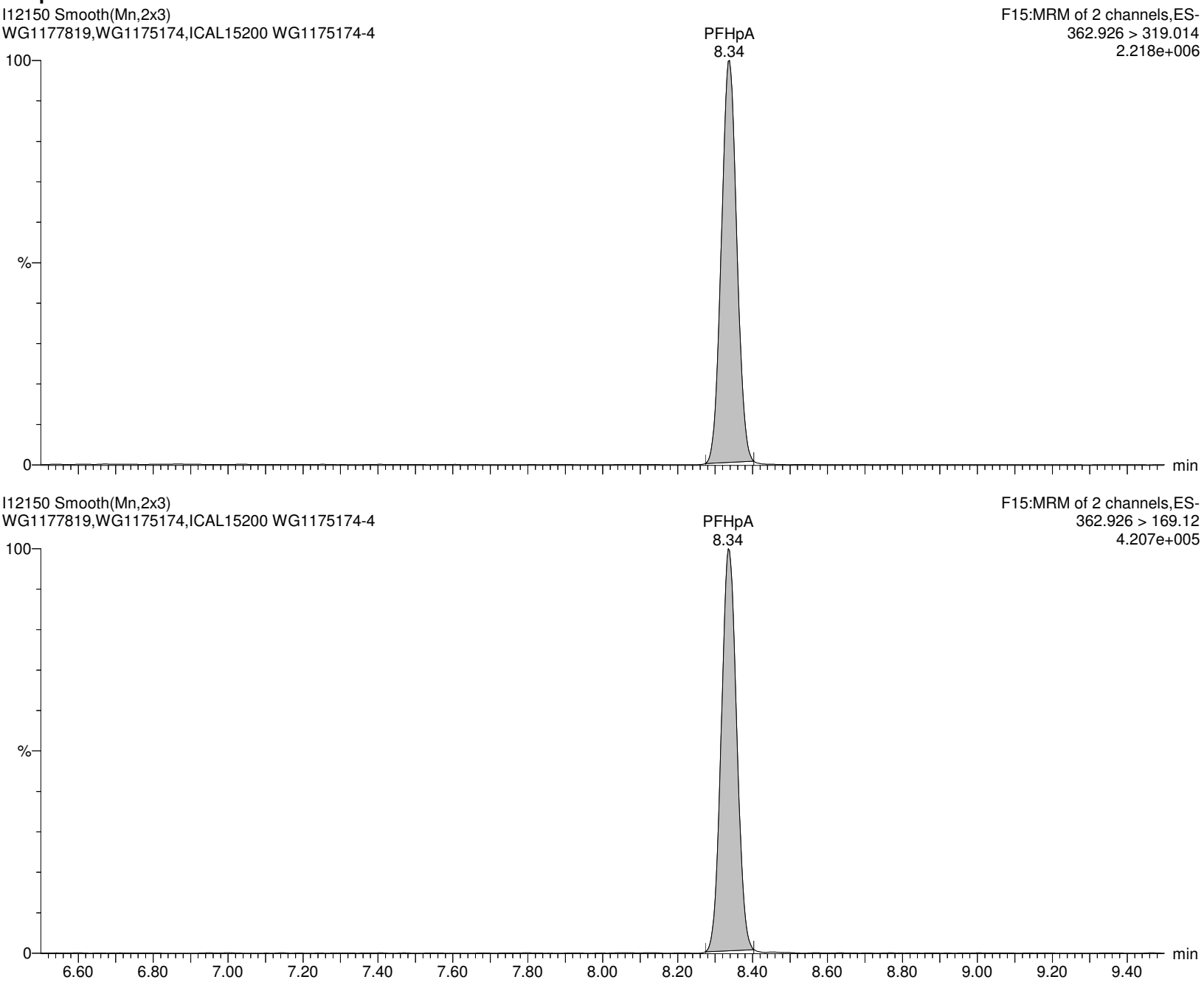

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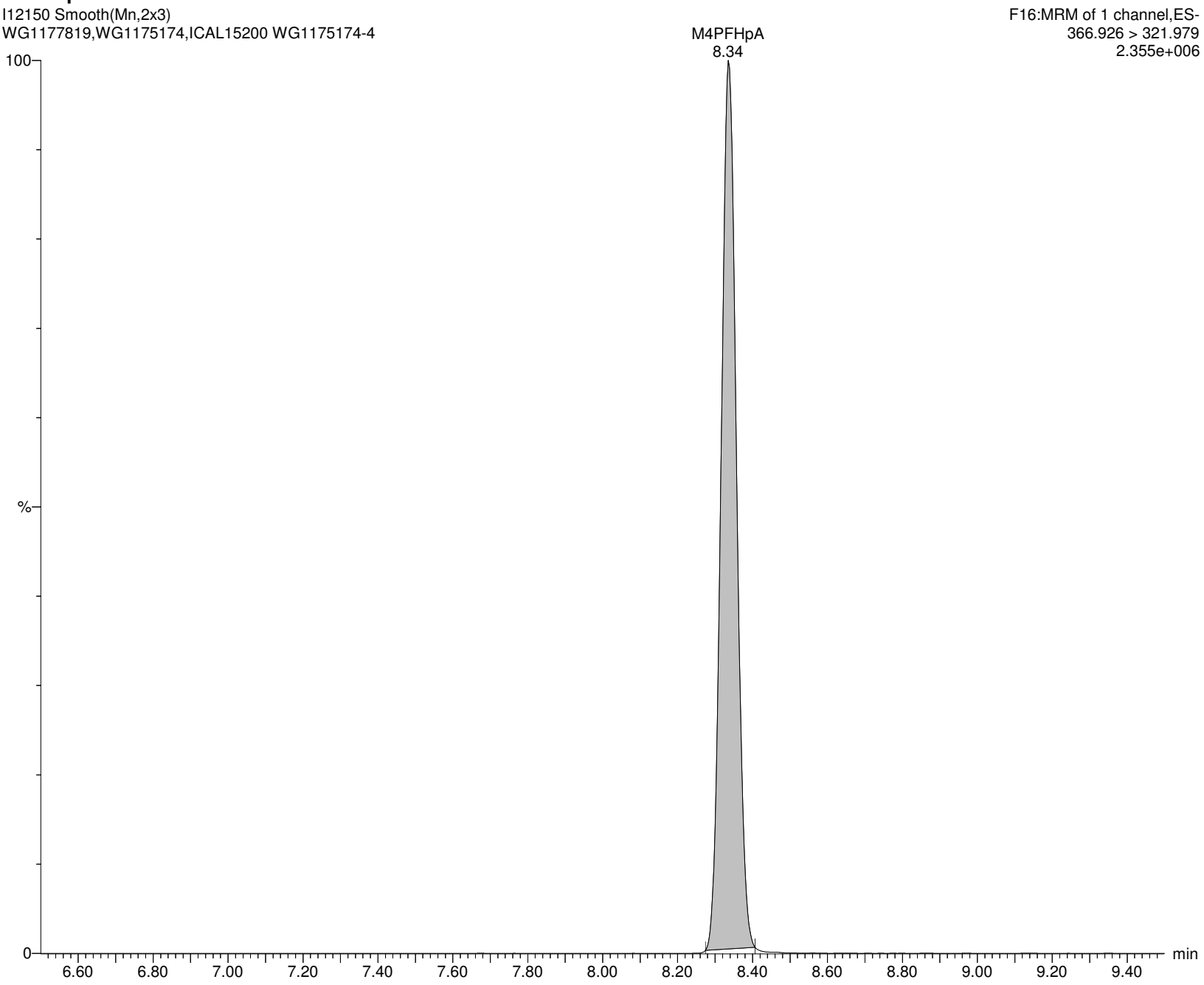

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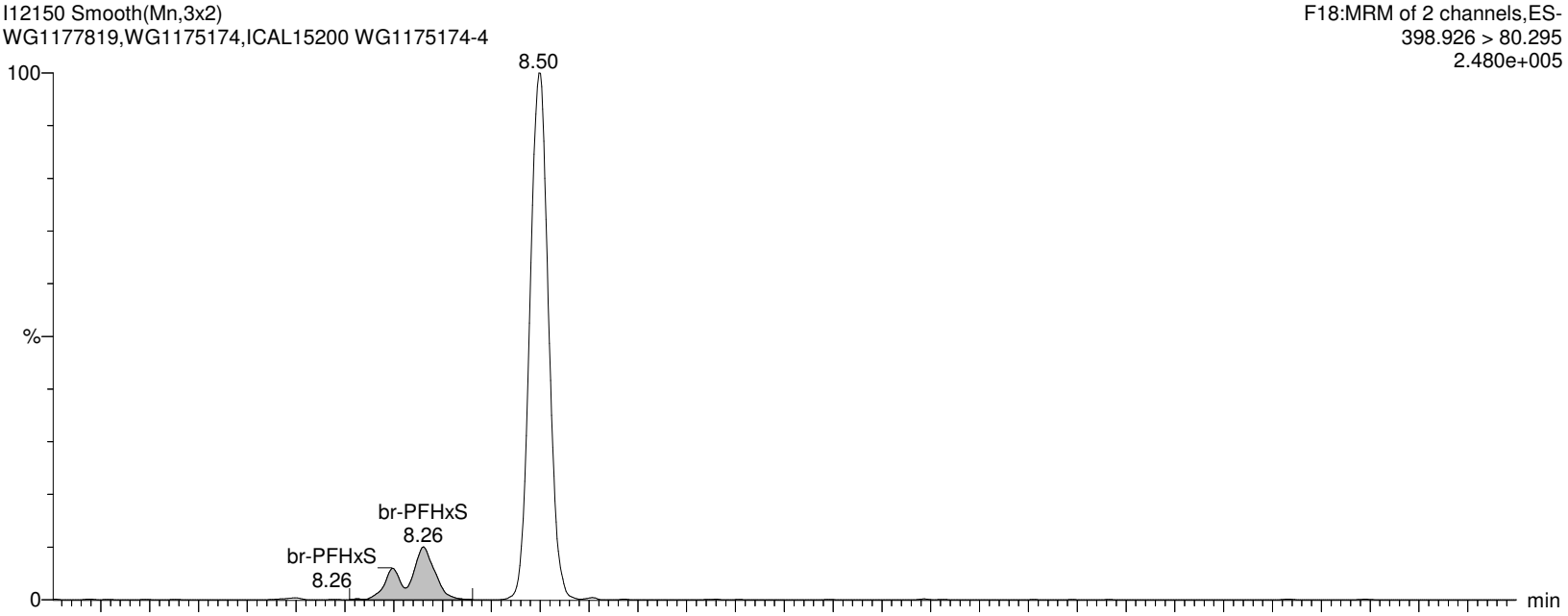

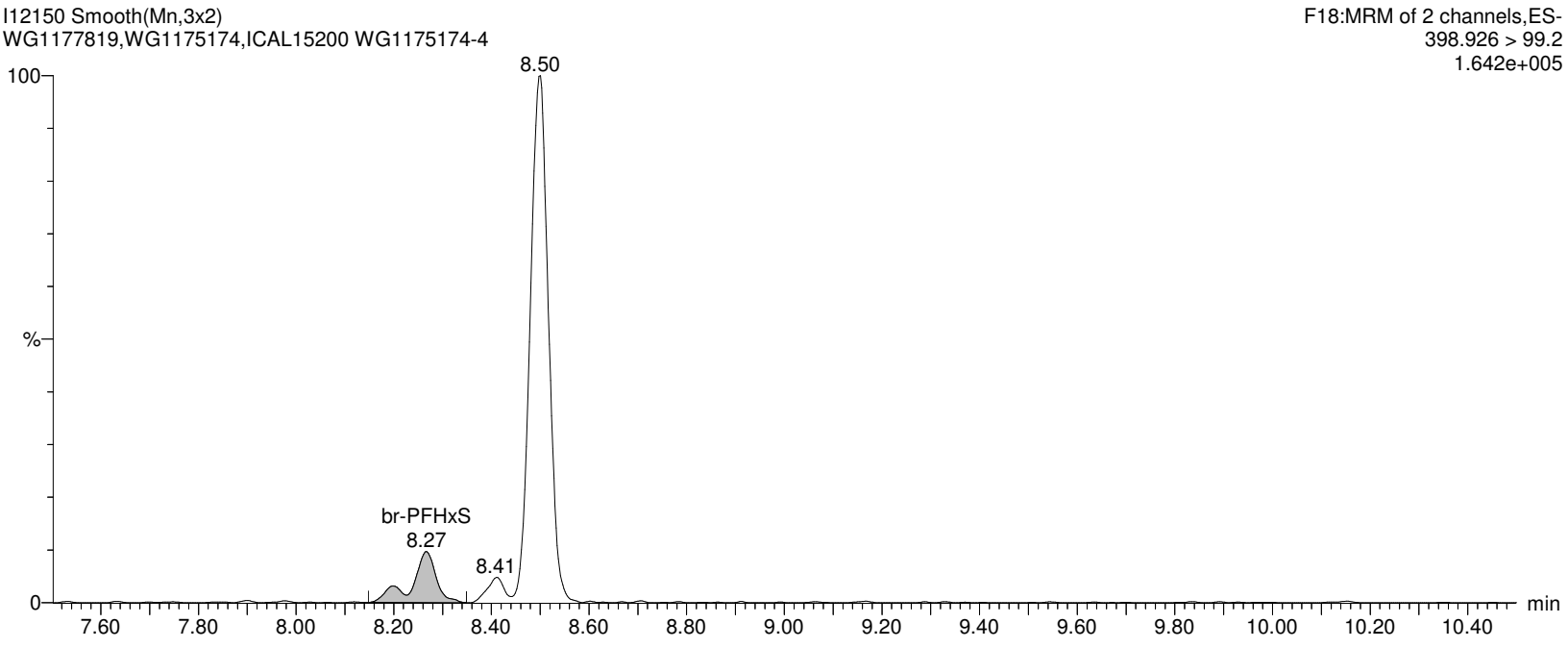

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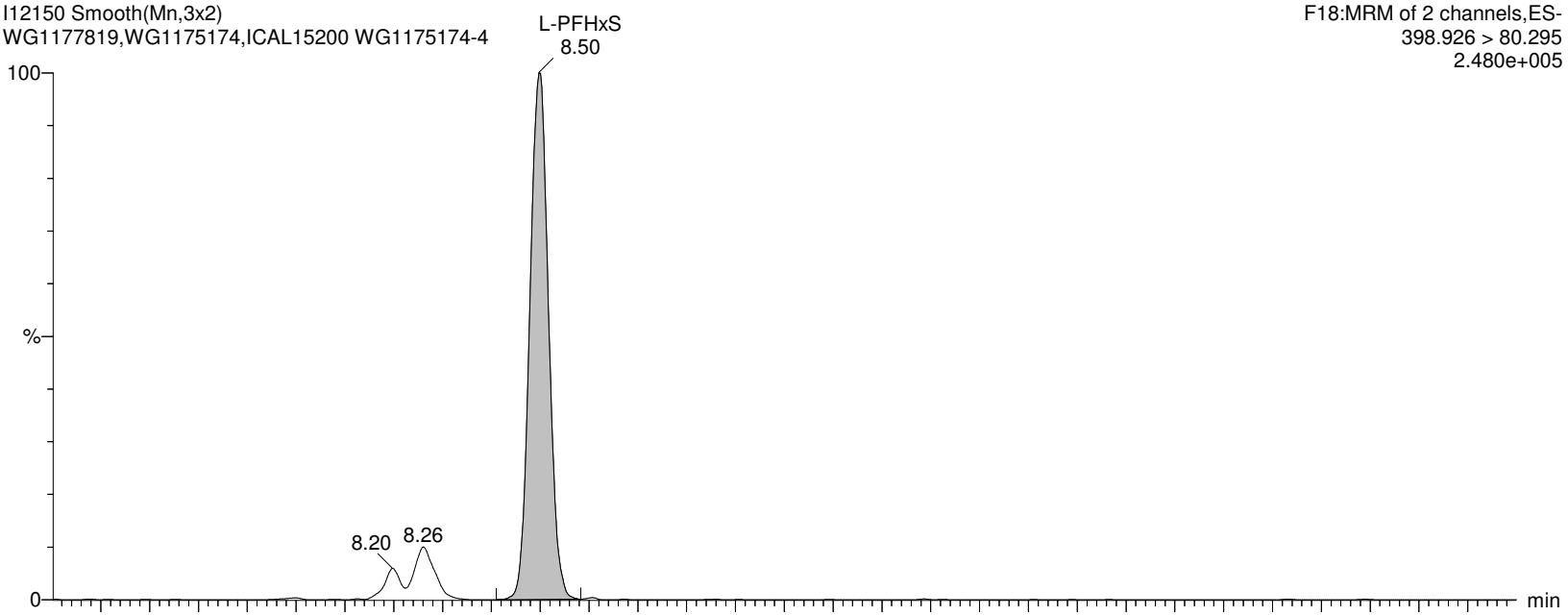

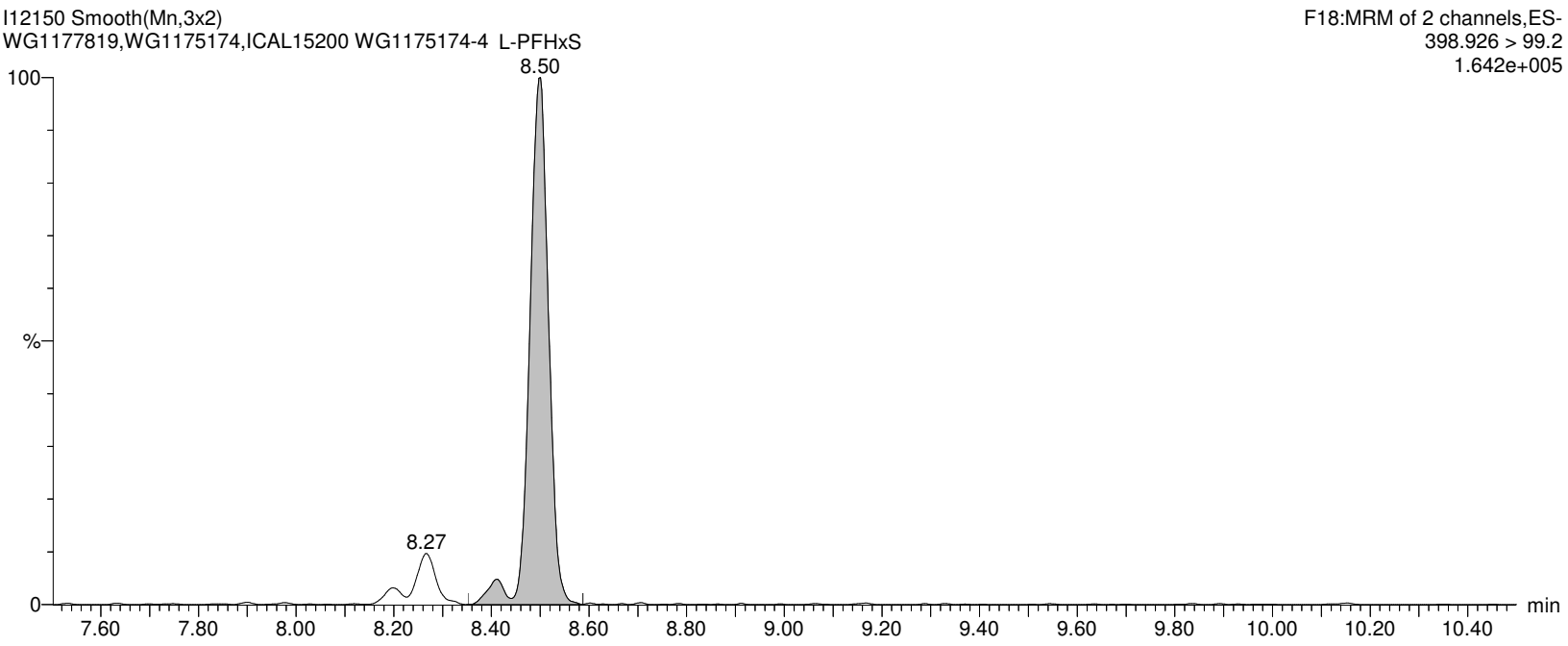

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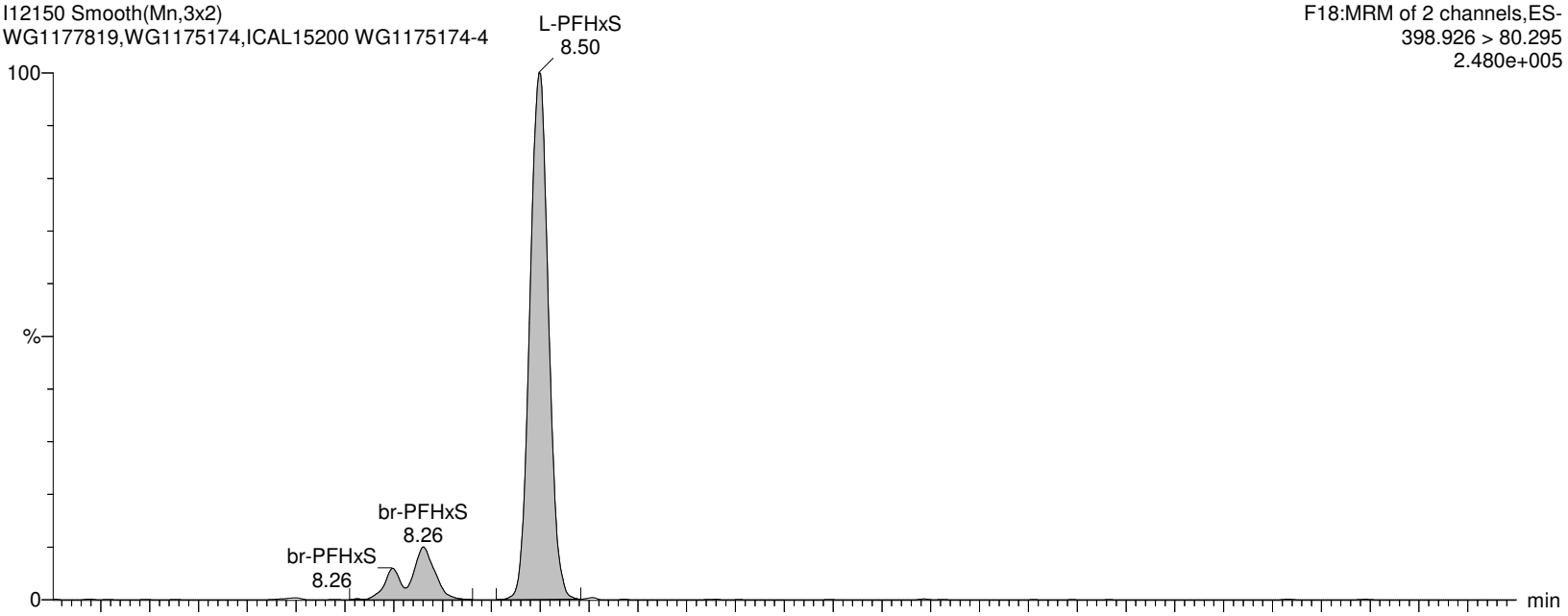

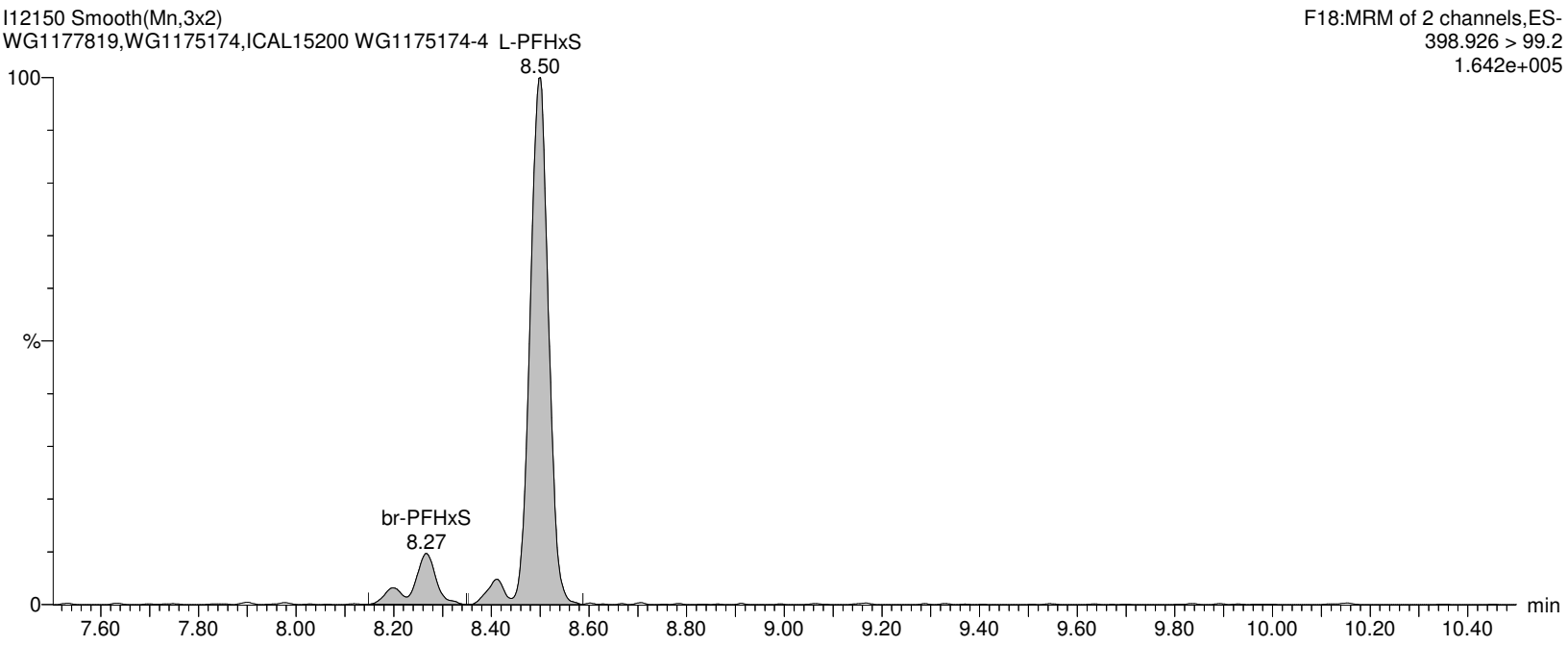

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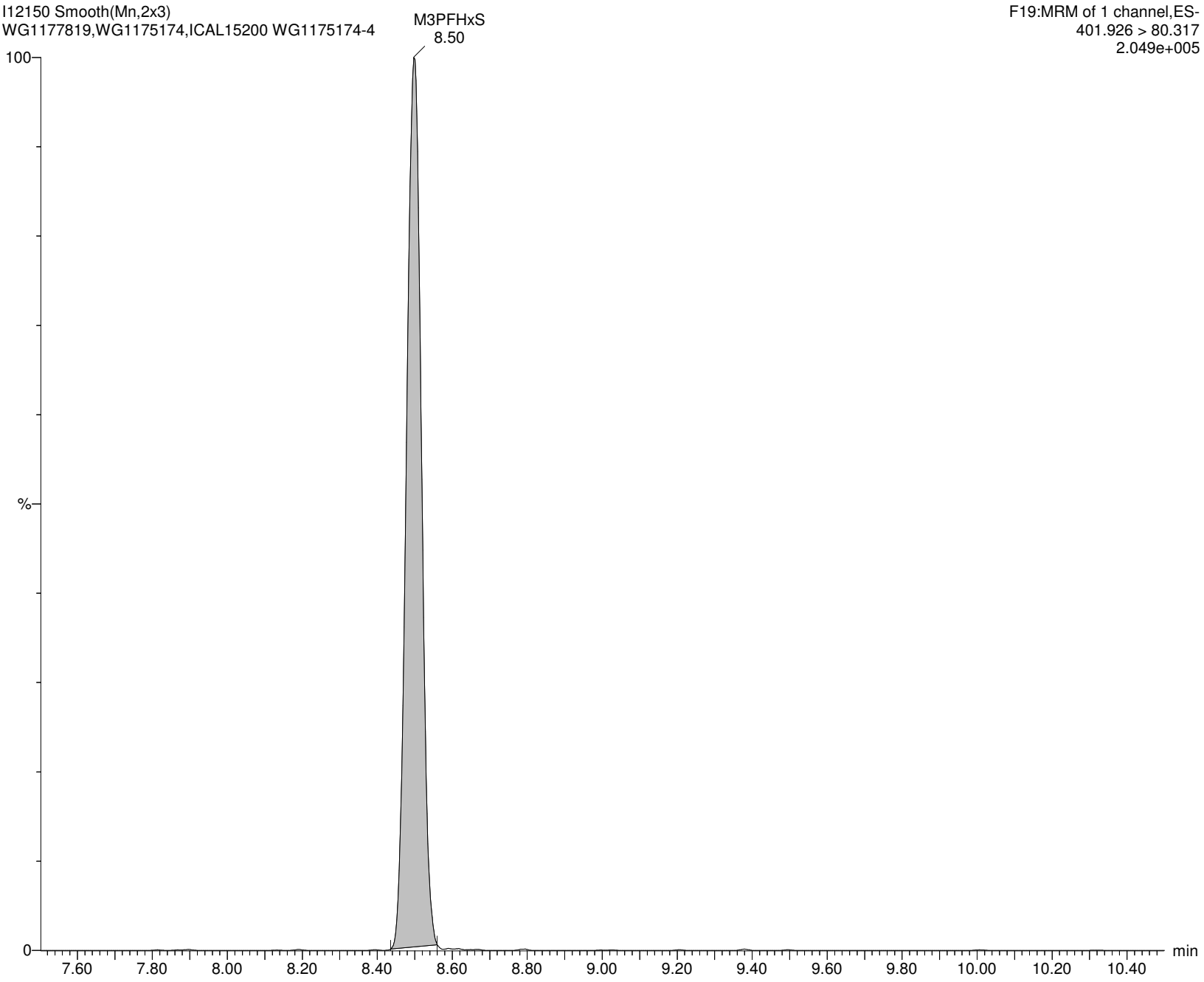

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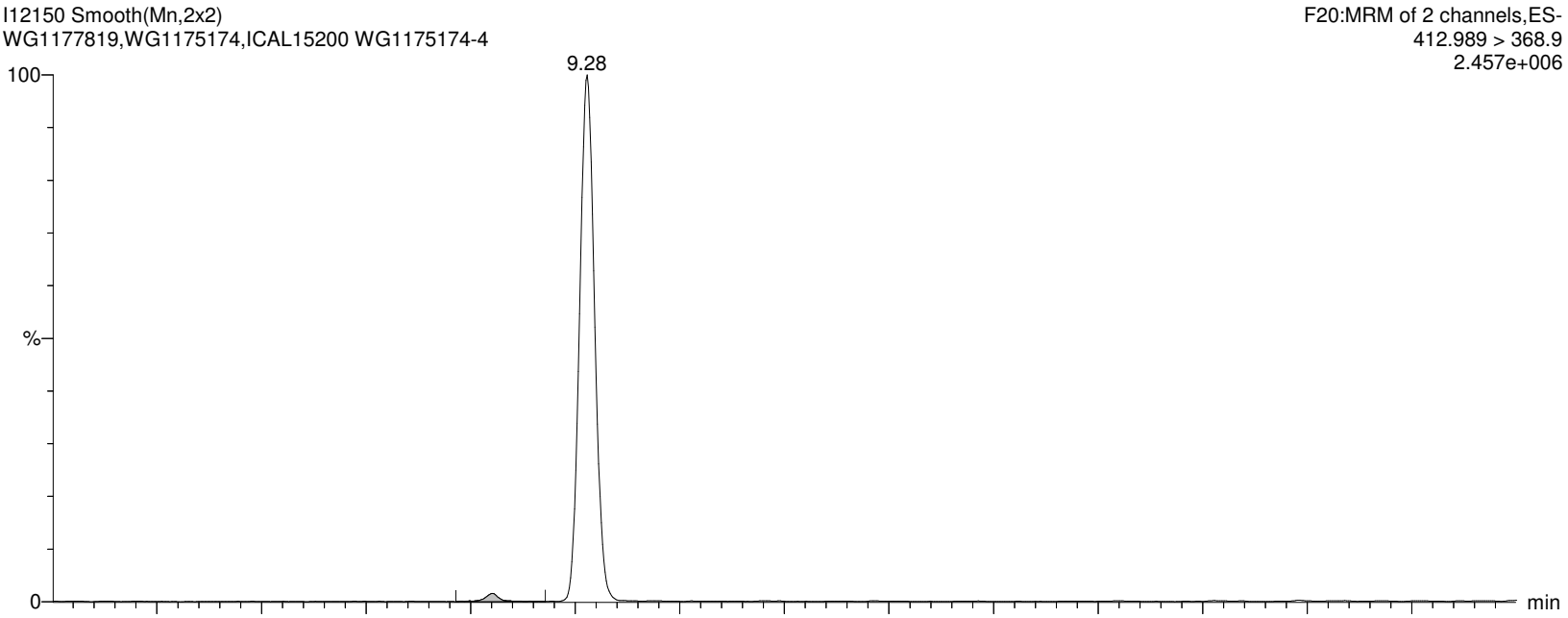

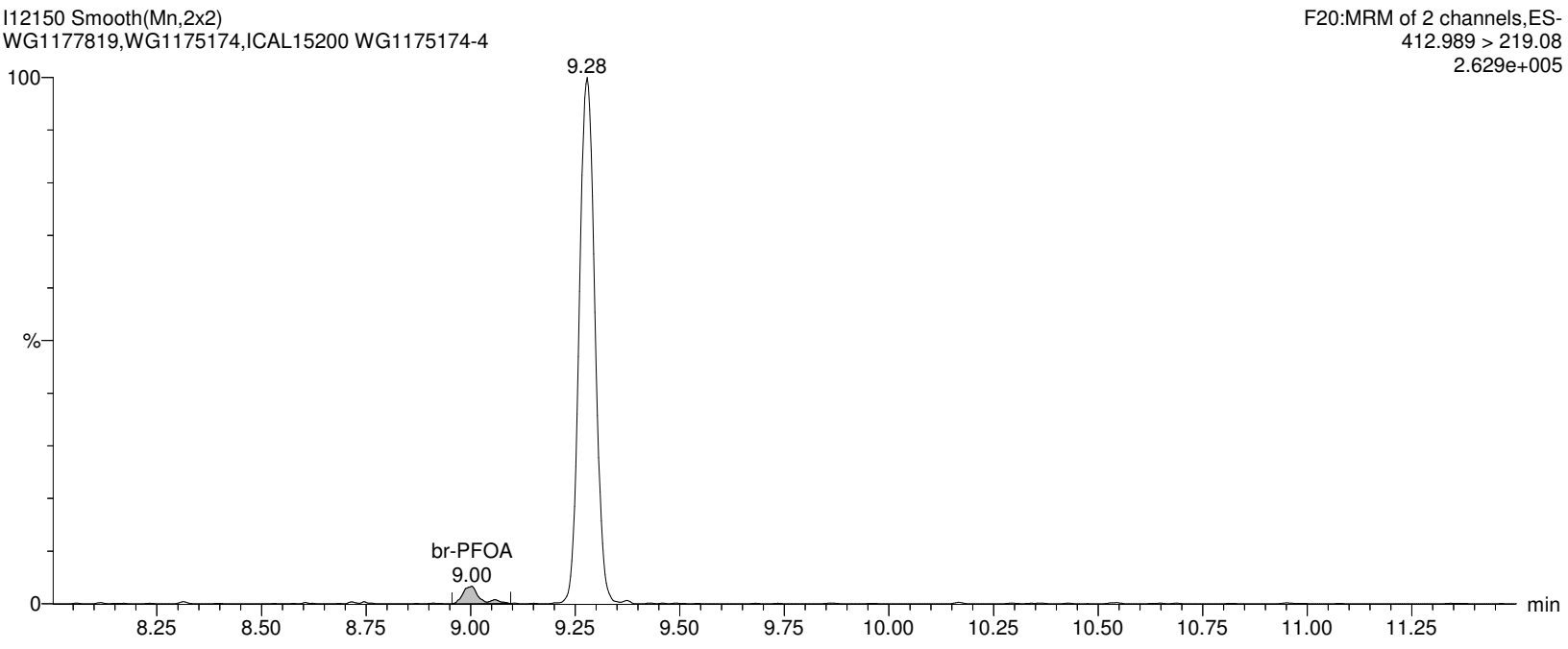

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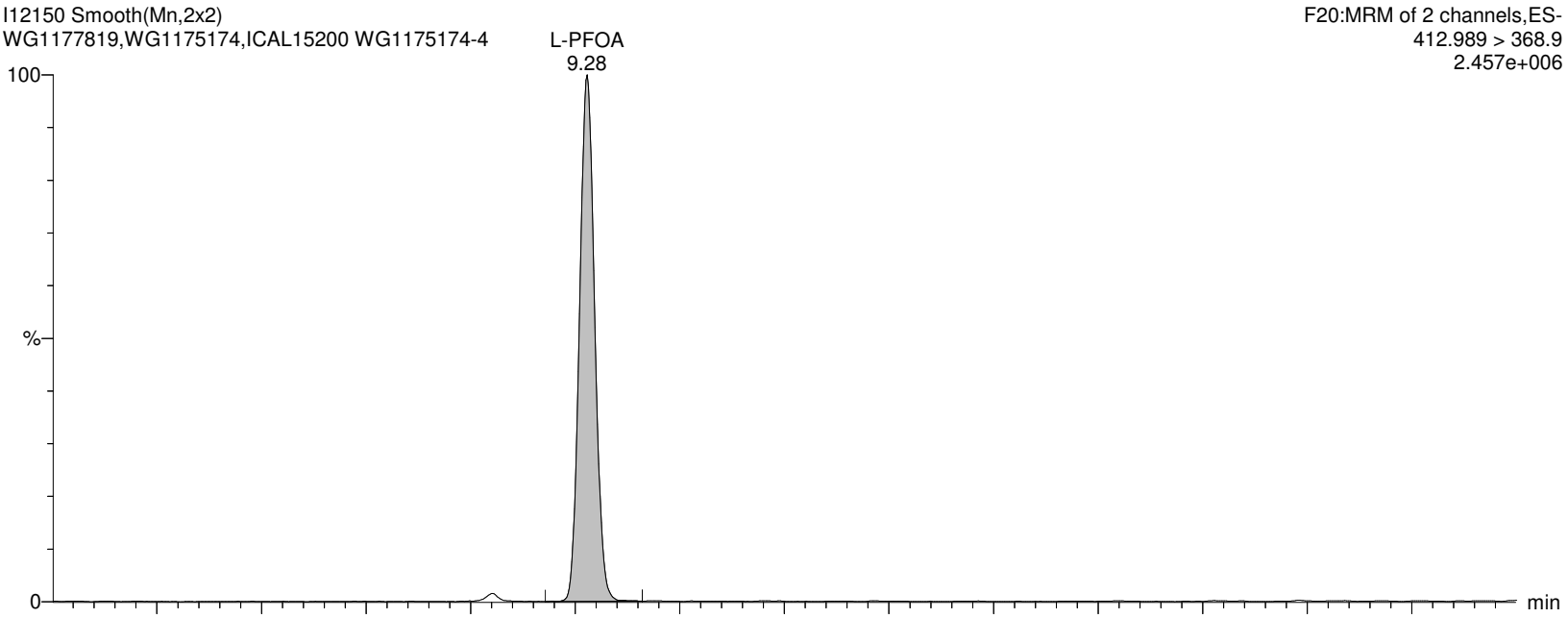

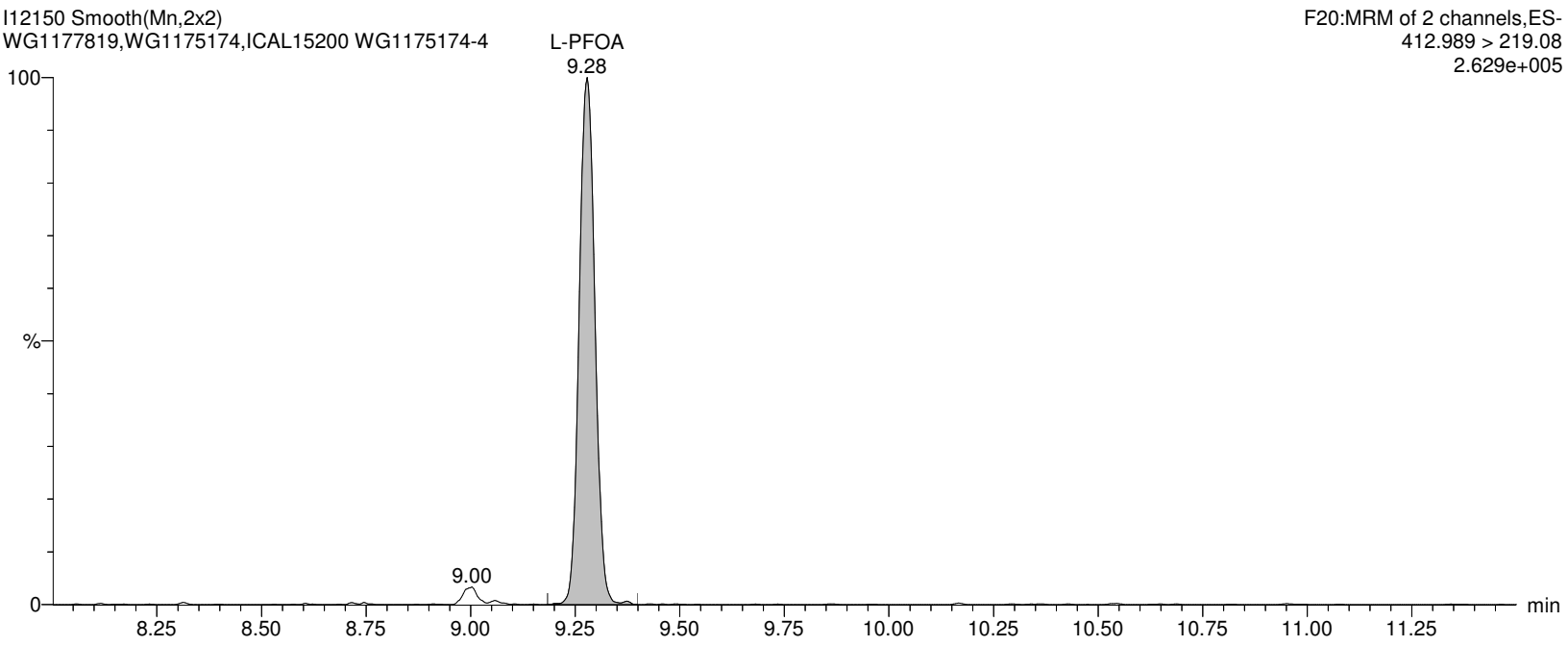

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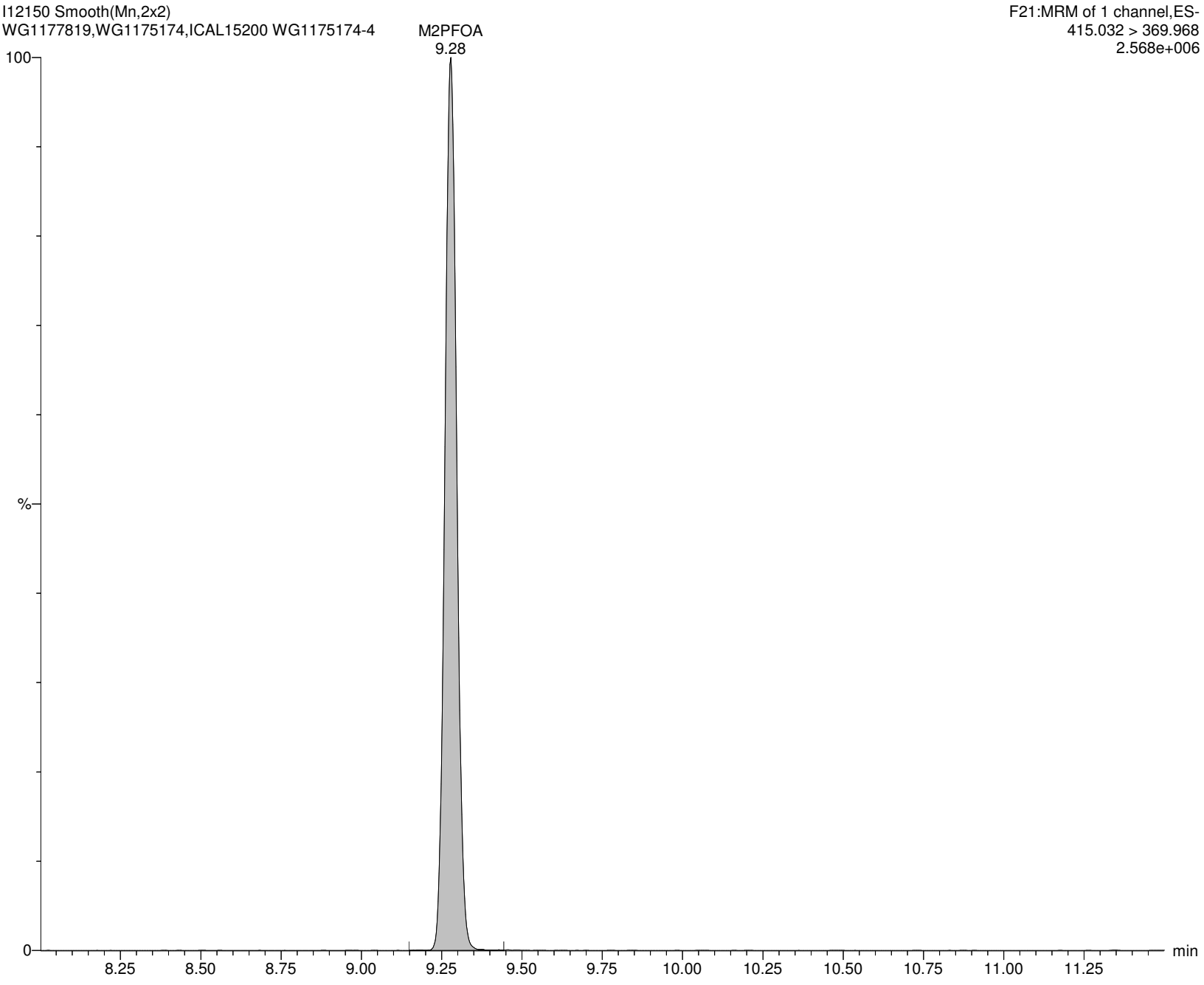

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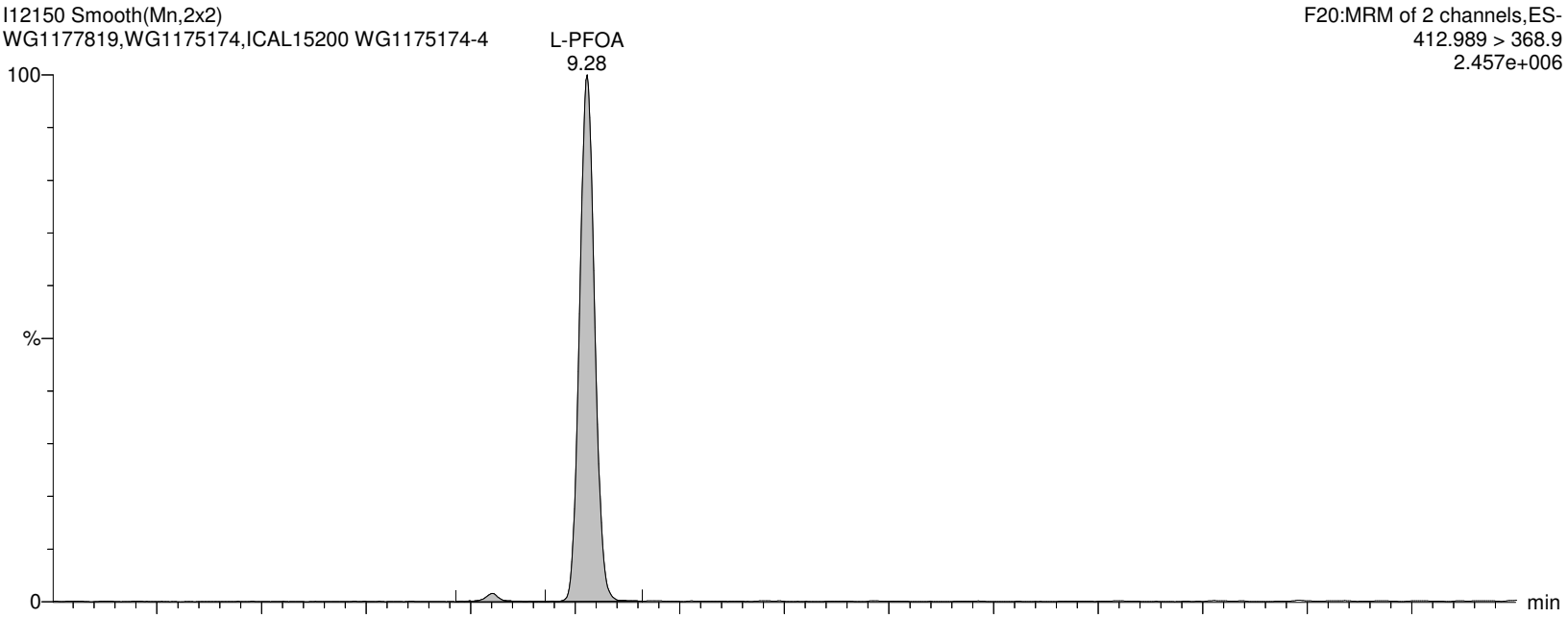

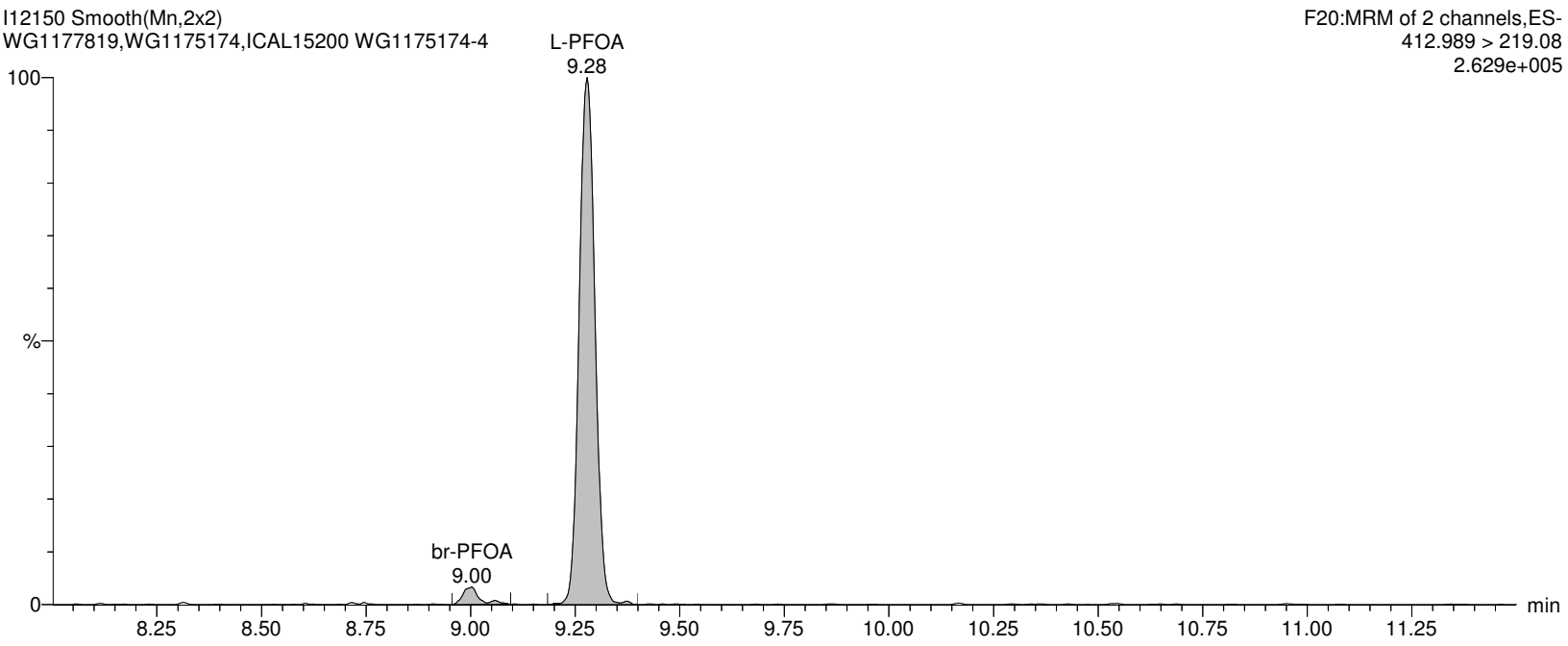

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:49 Eastern Standard Time

Name: I12150
ID: WG1175174-4
Date: 10-Nov-2018
Time: 06:18:41
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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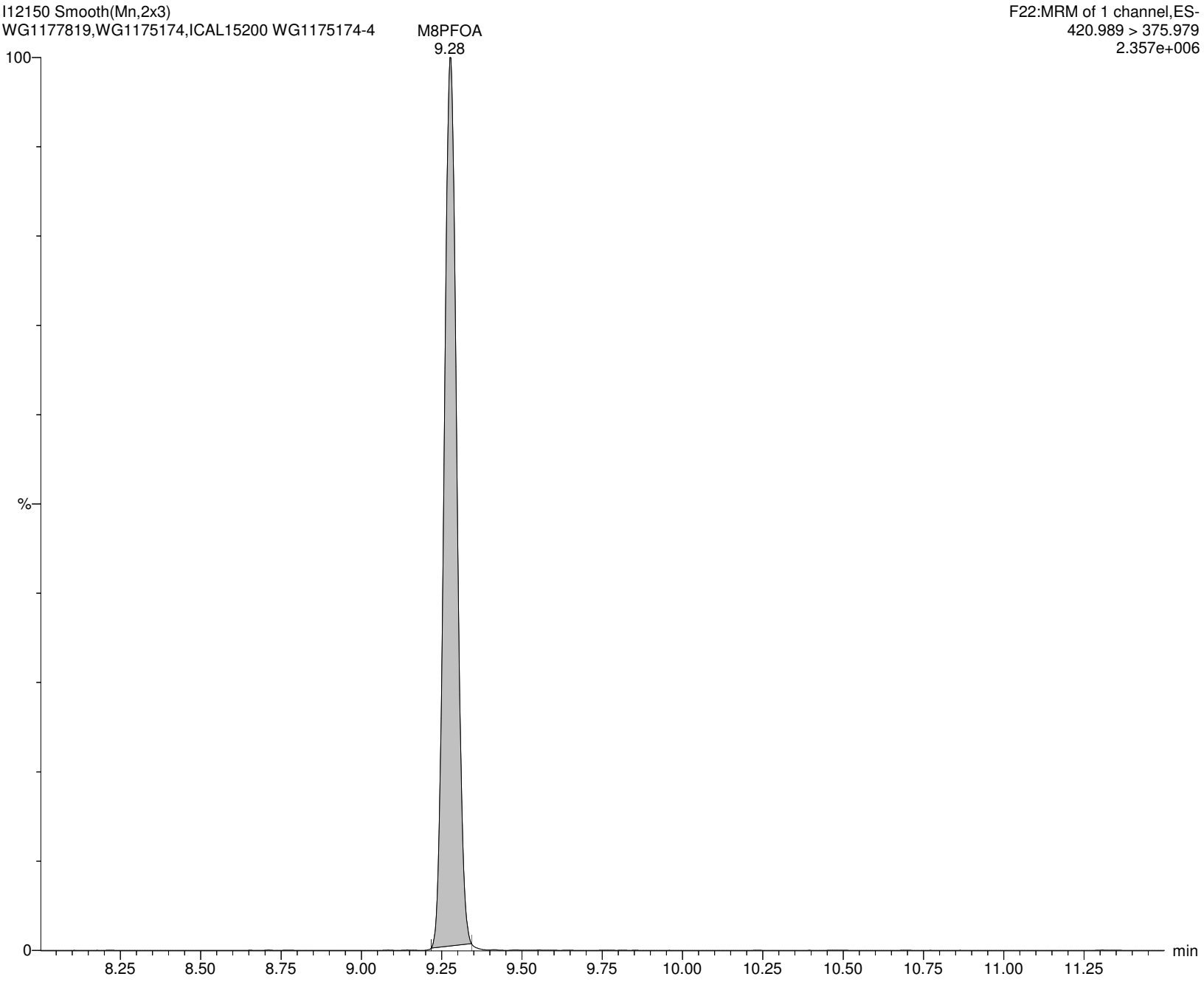

all concentration units in (ng/mL)

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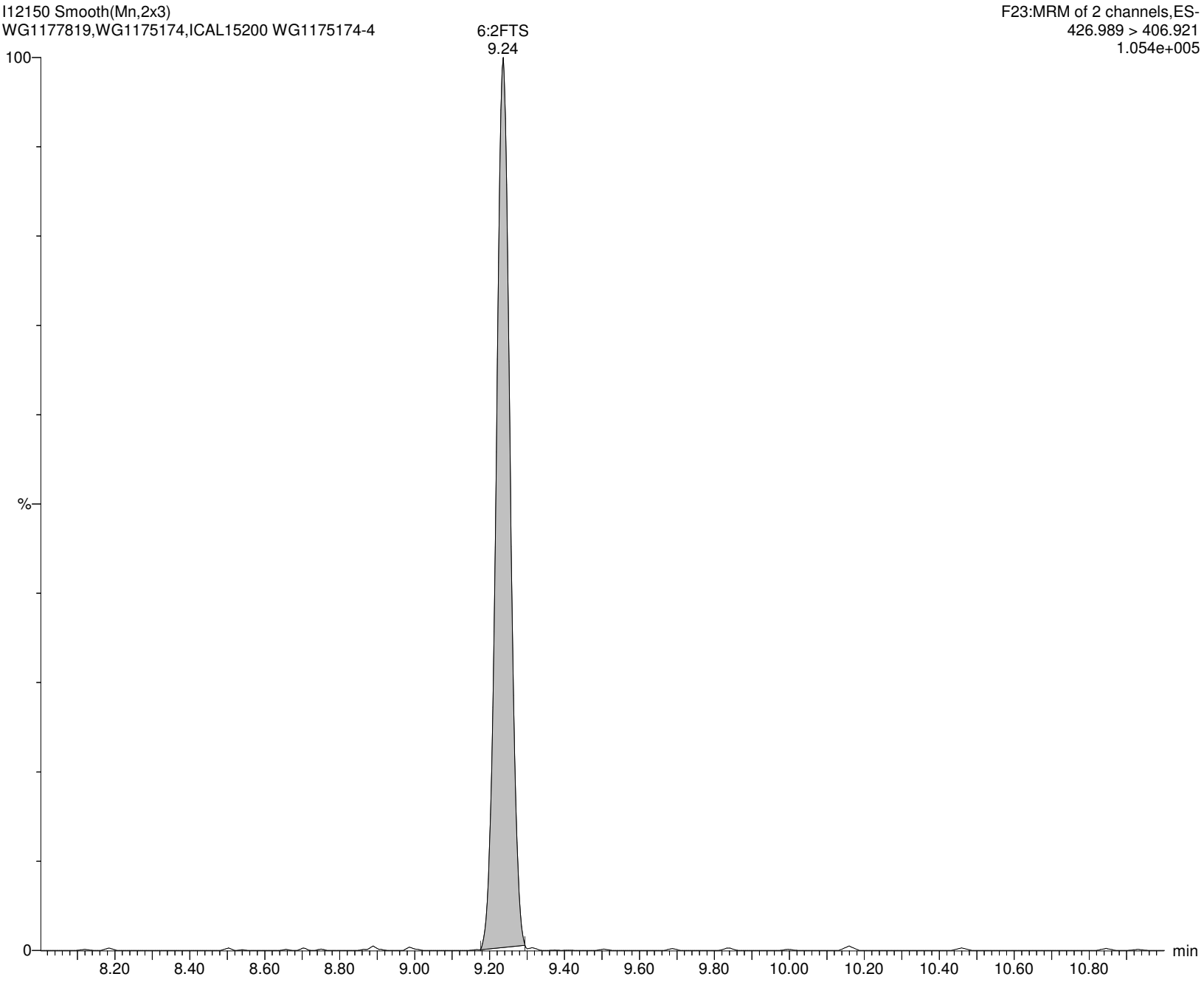

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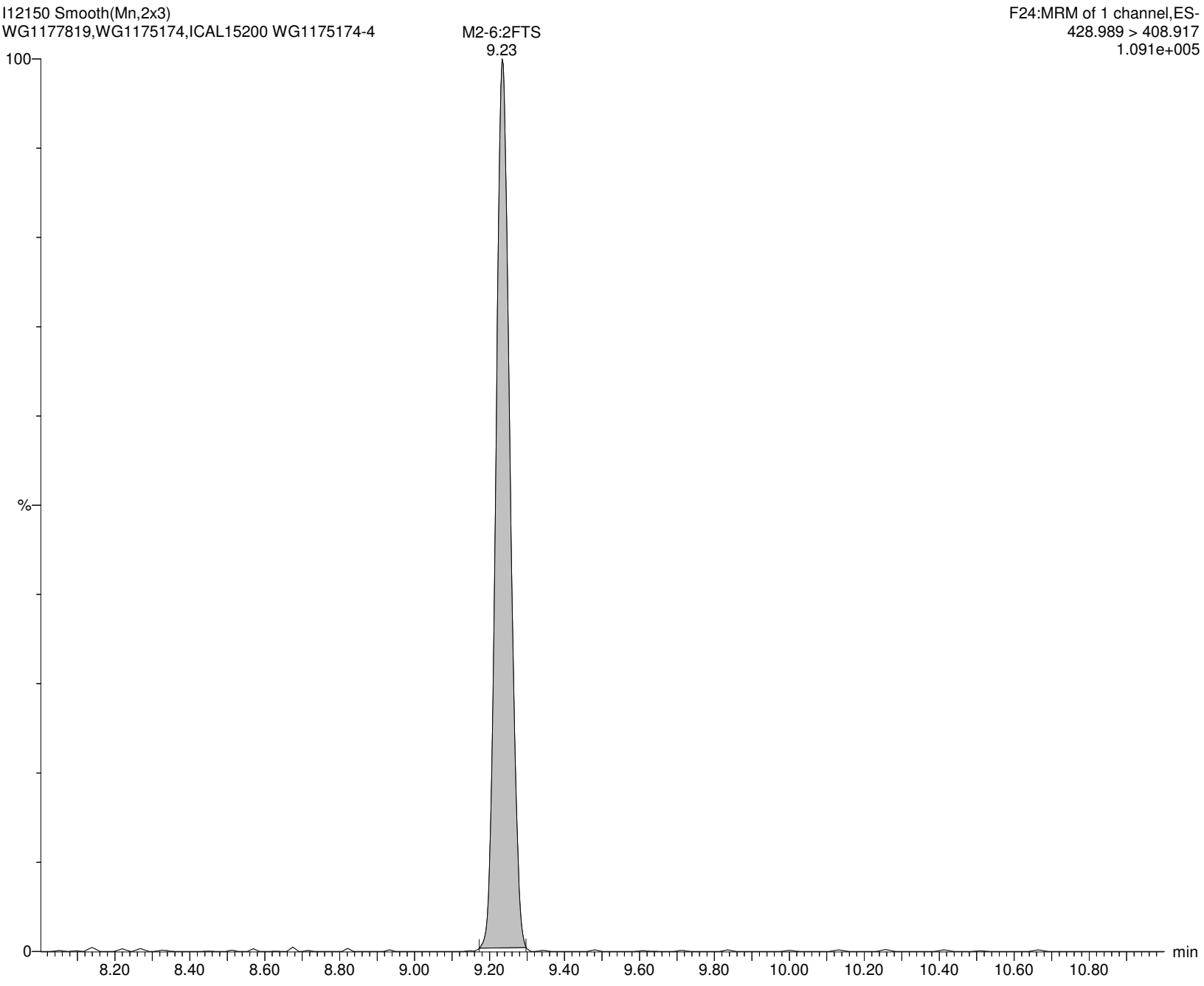

all concentration units in (ng/mL)

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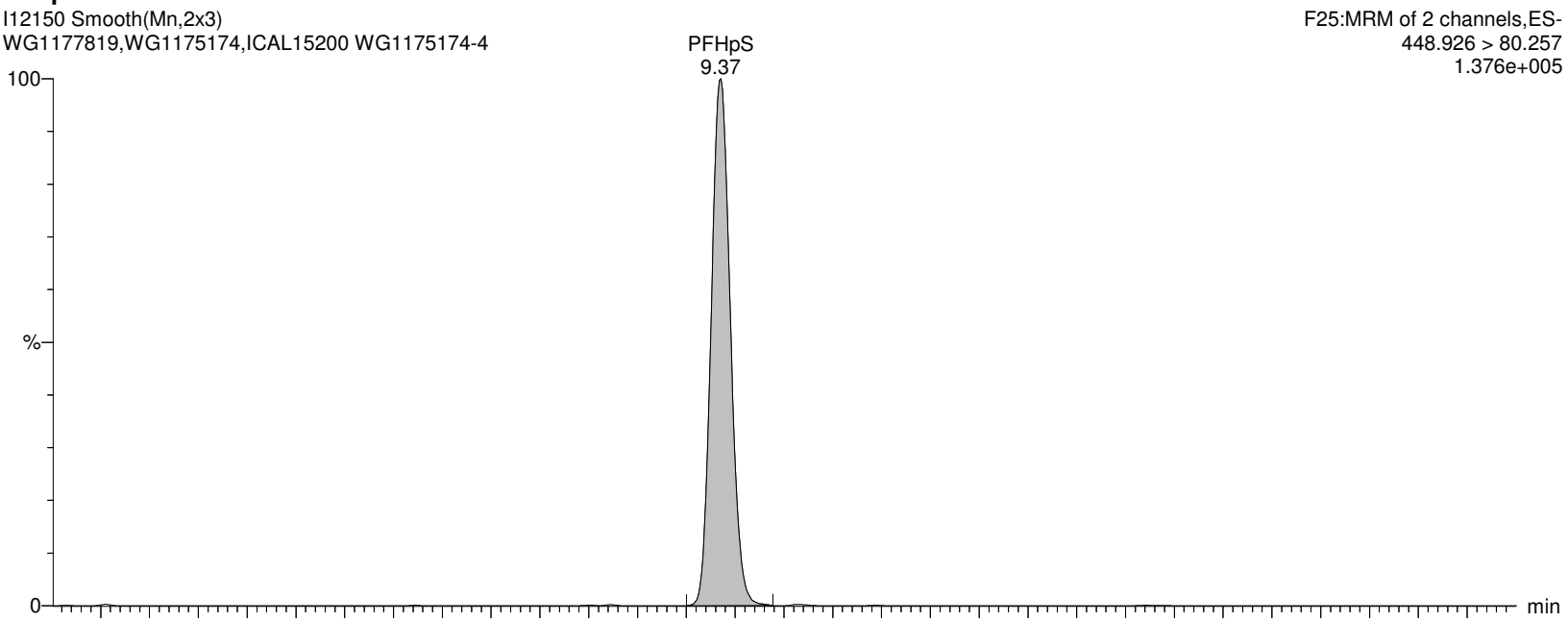

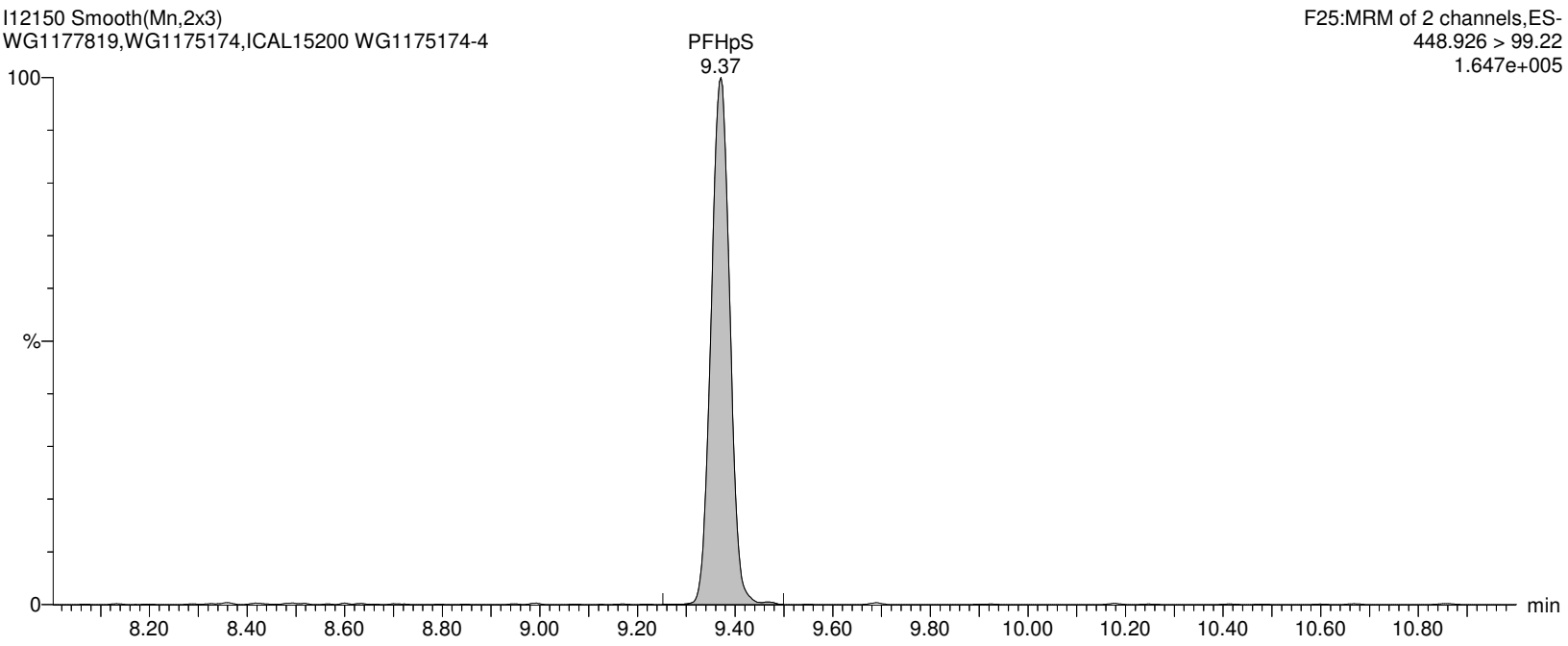

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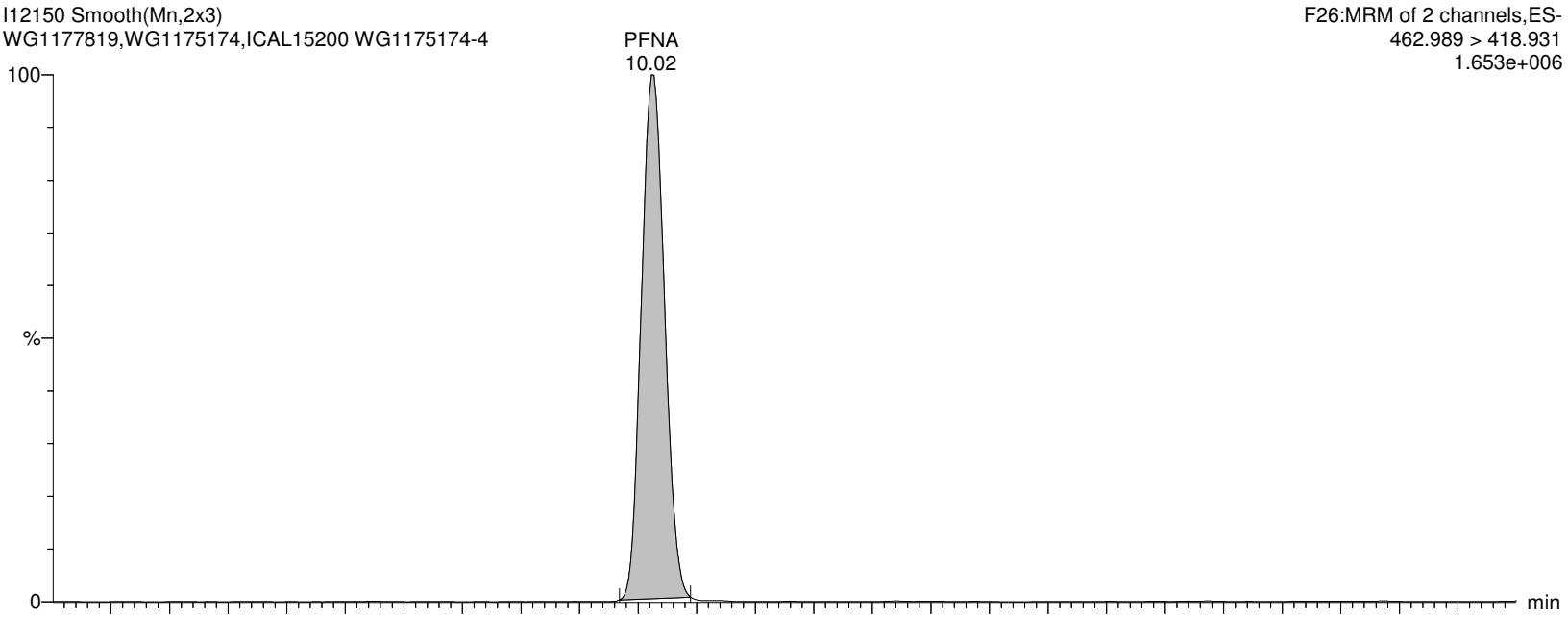

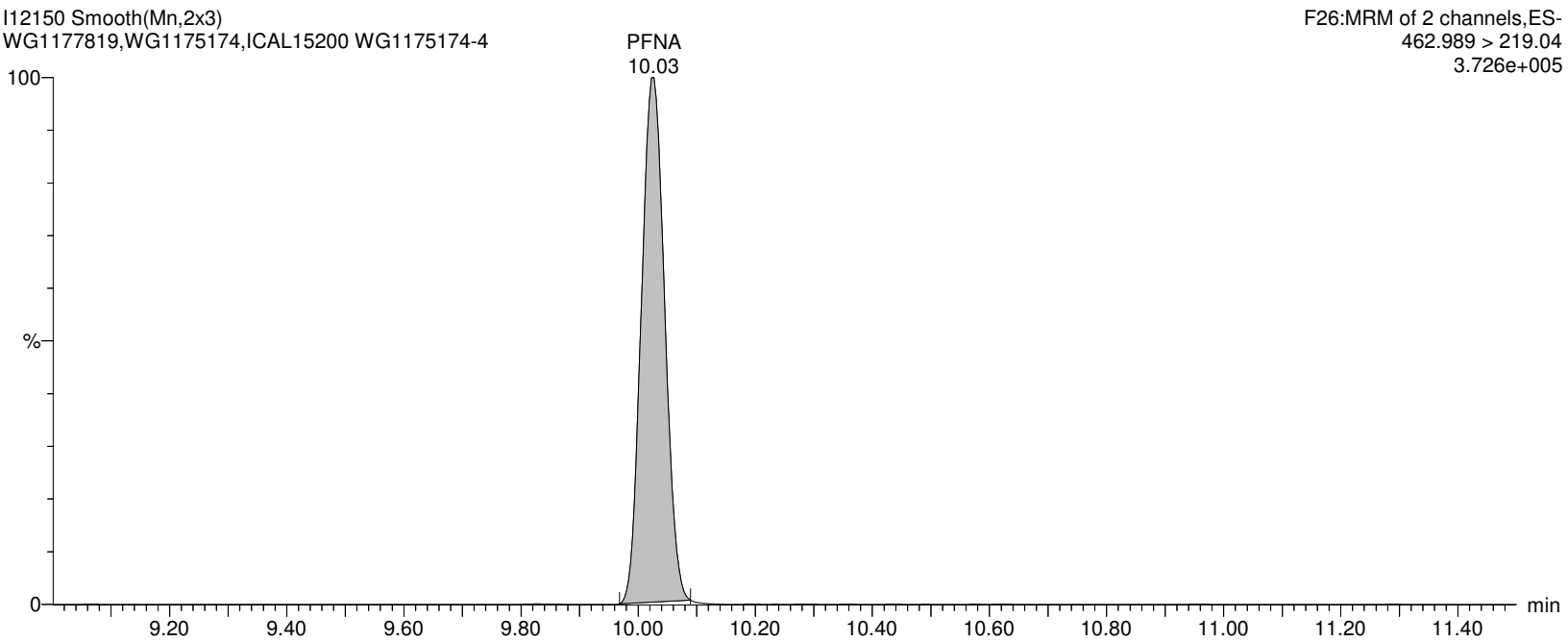

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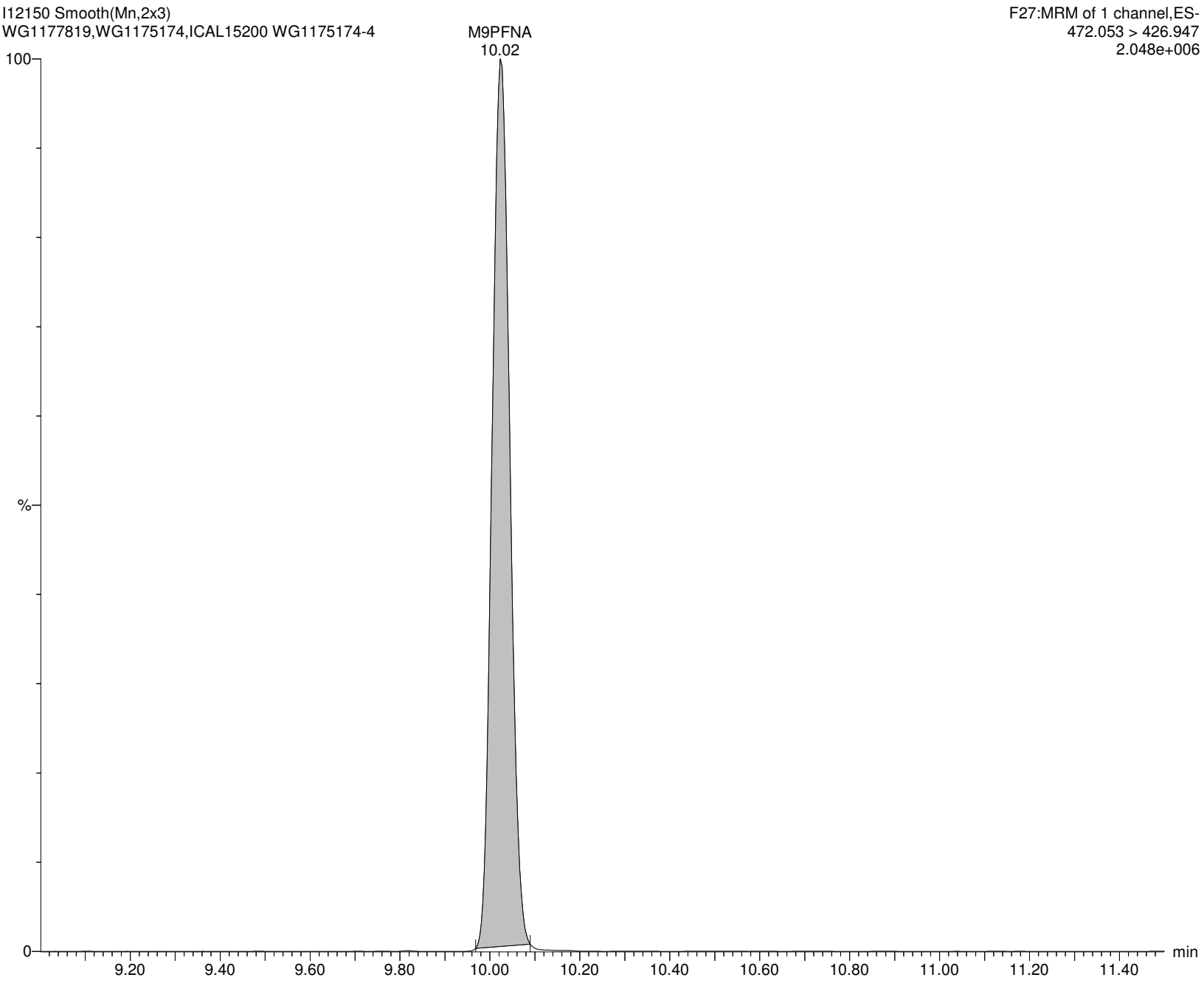

all concentration units in (ng/mL)

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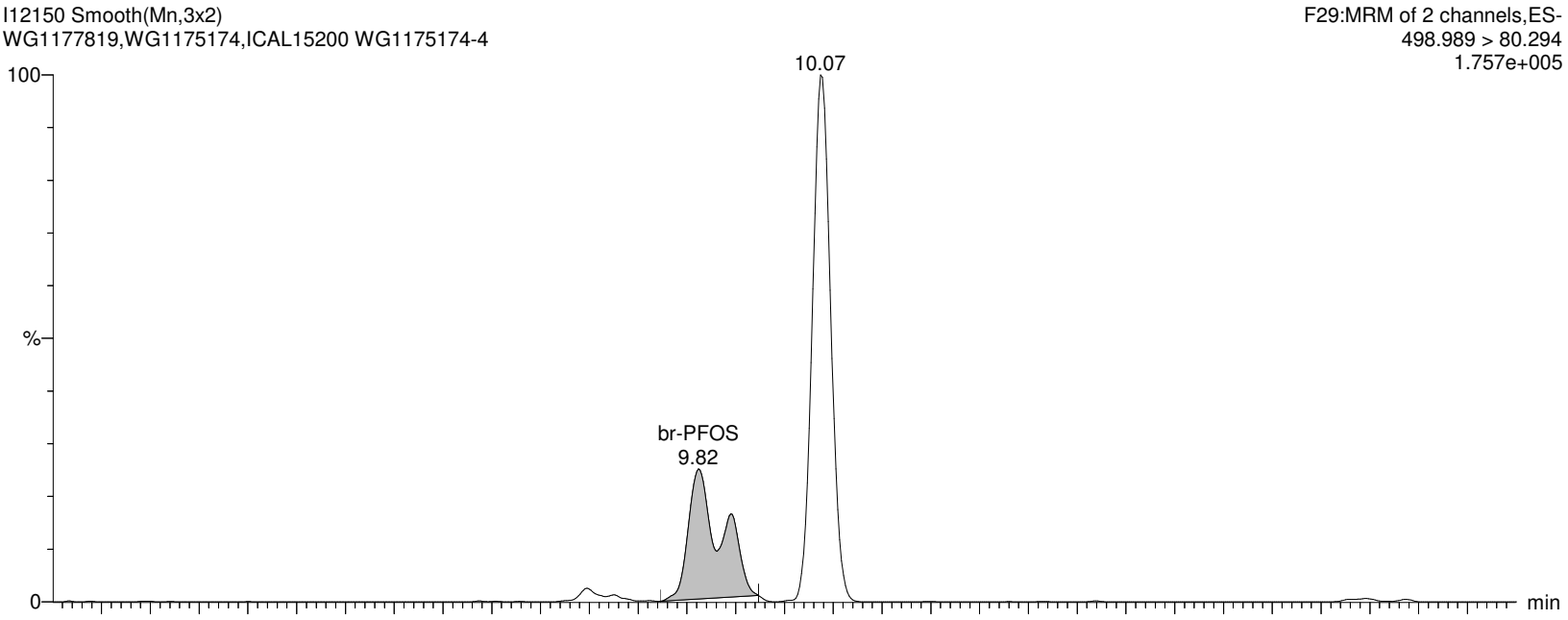

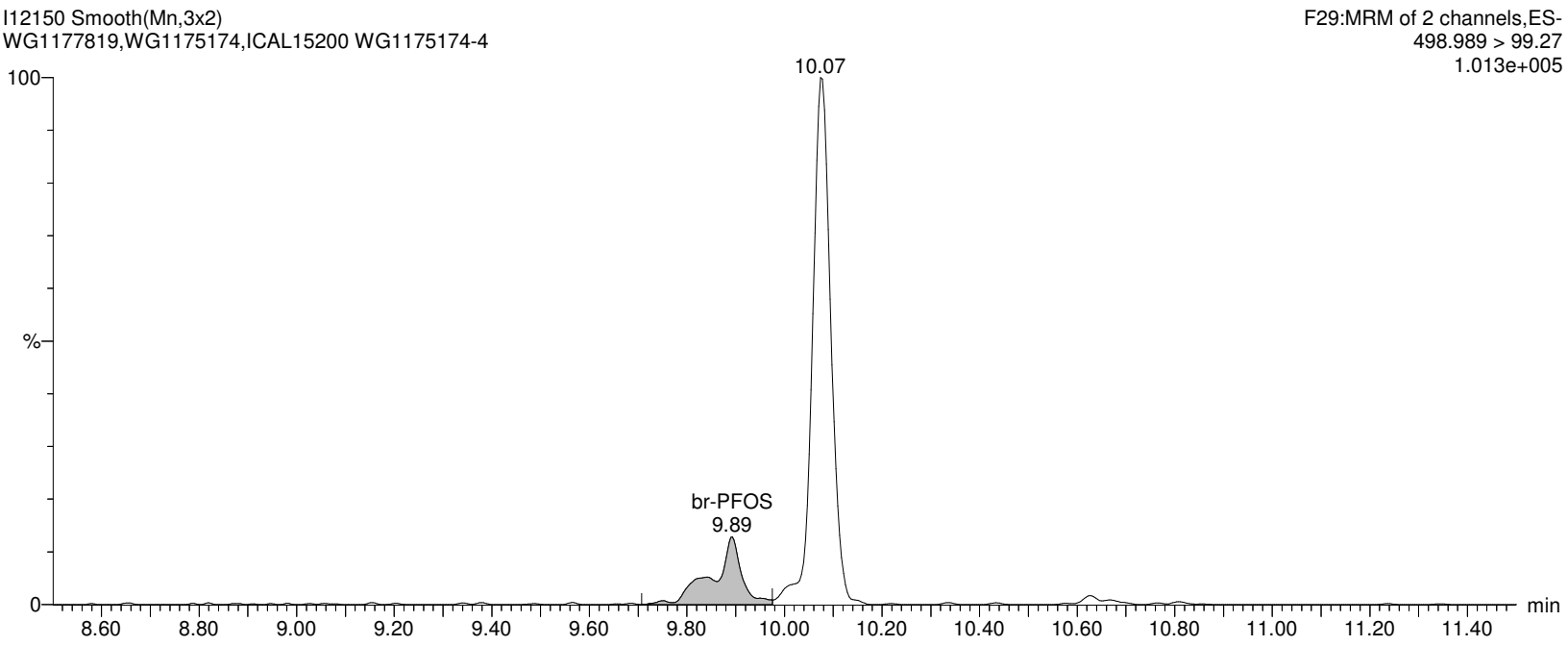

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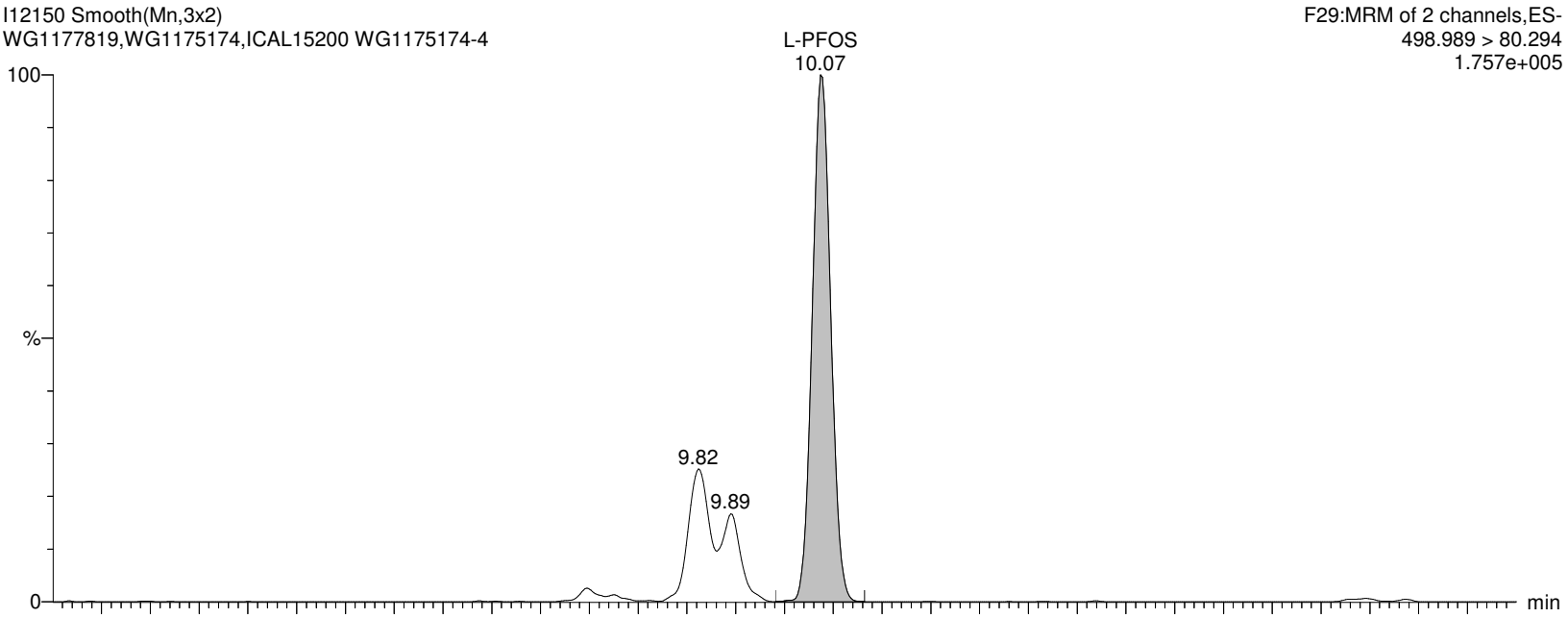

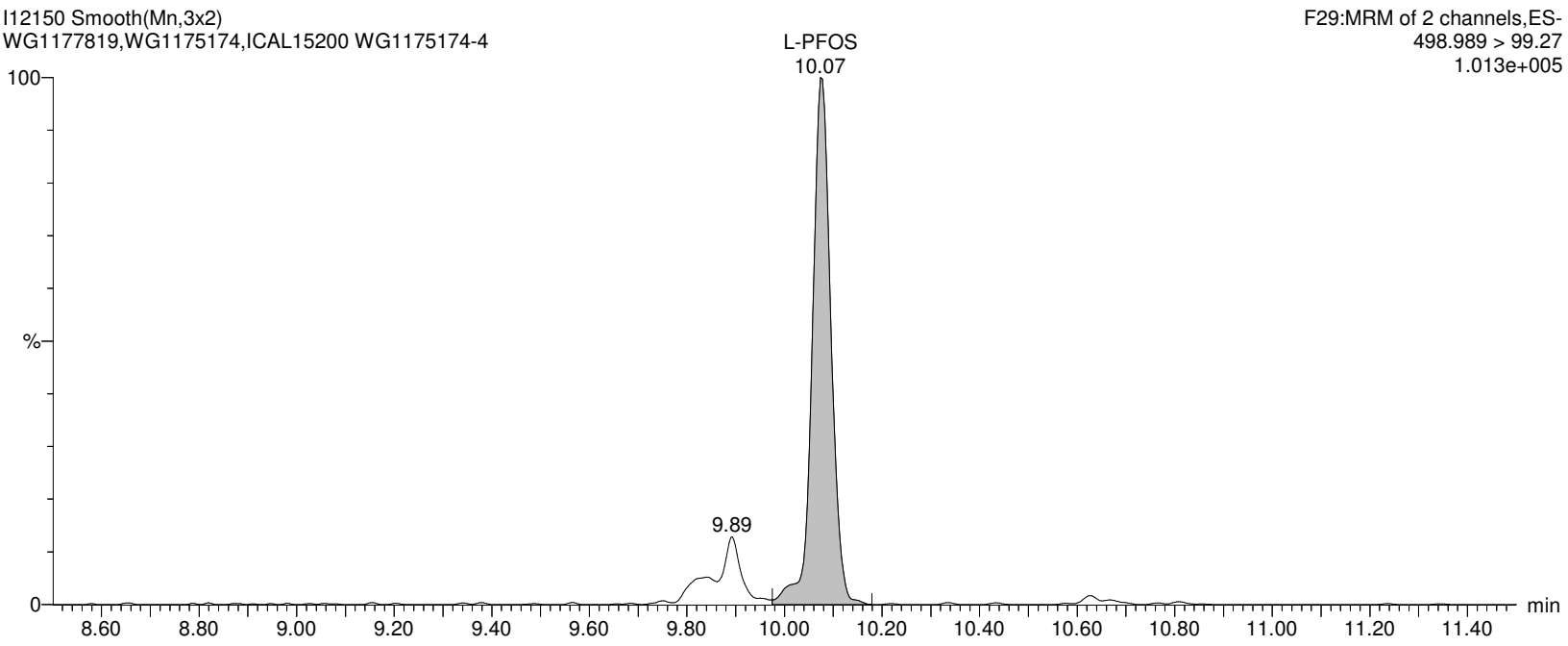

all concentration units in (ng/mL)

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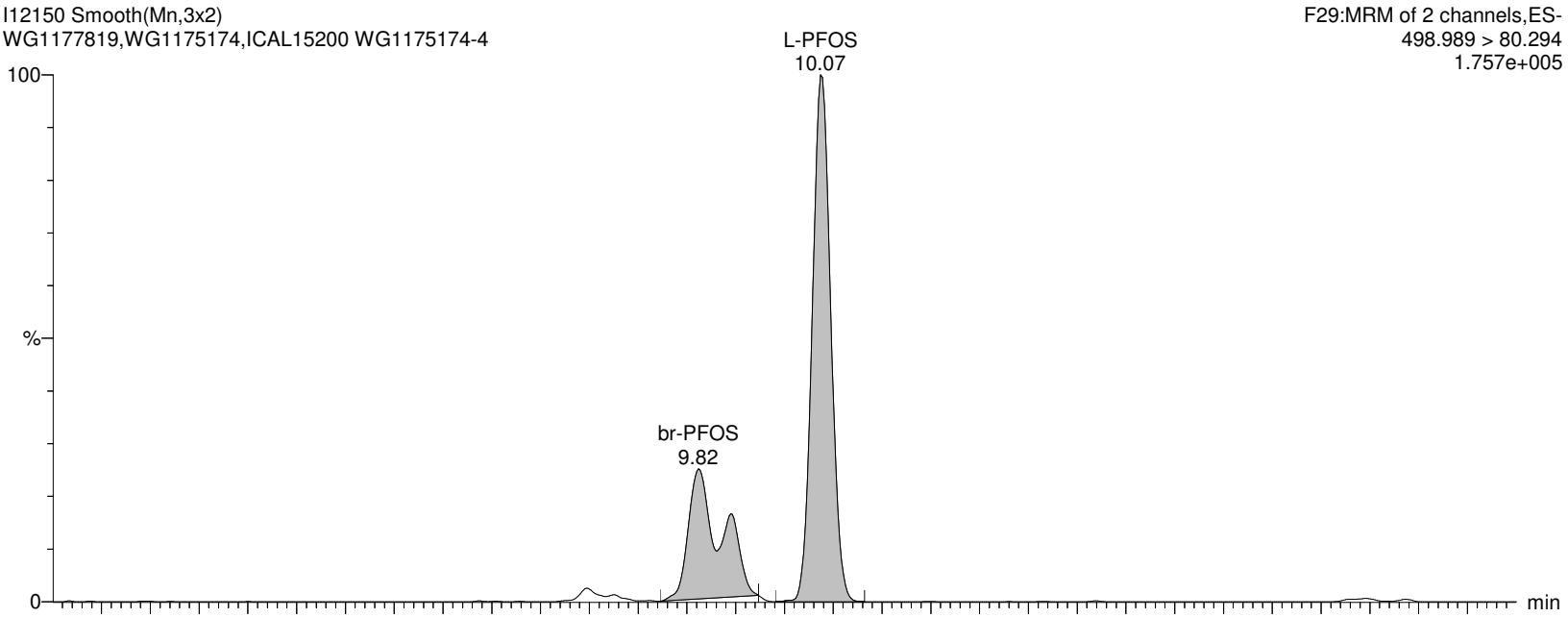

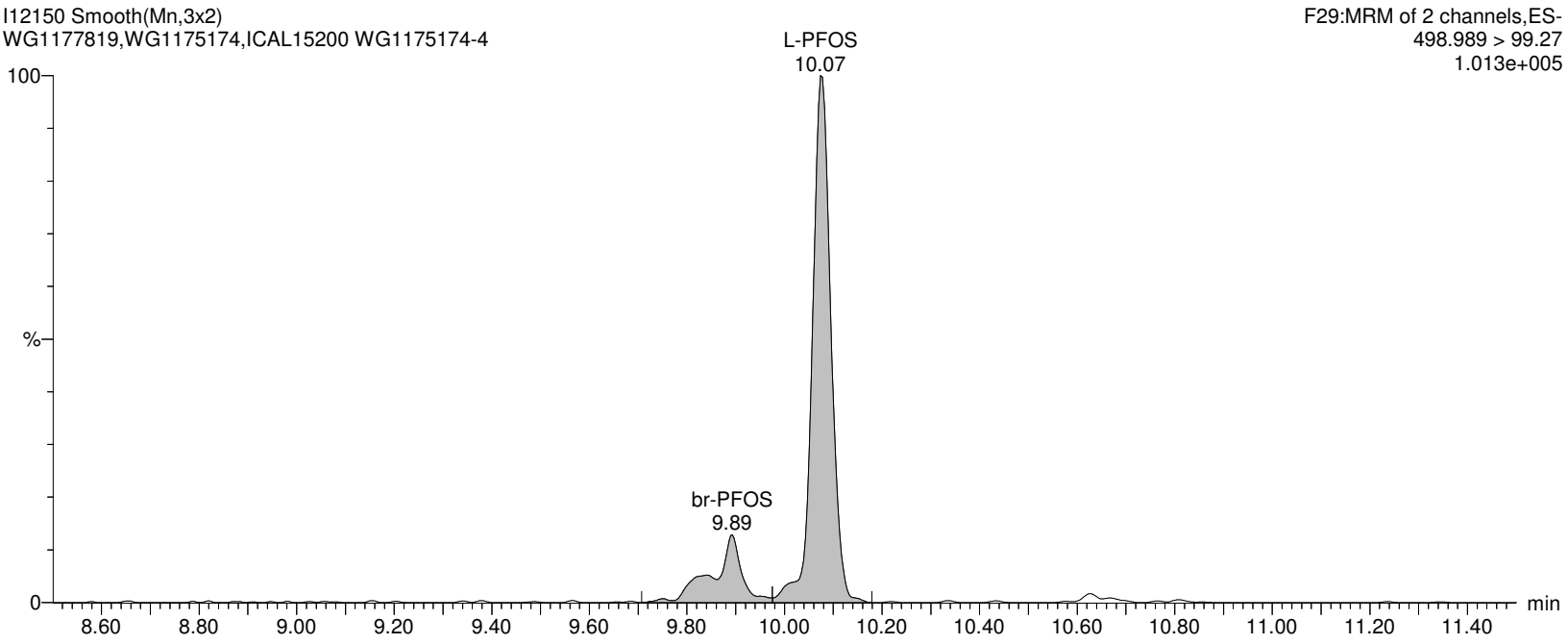

all concentration units in (ng/mL)

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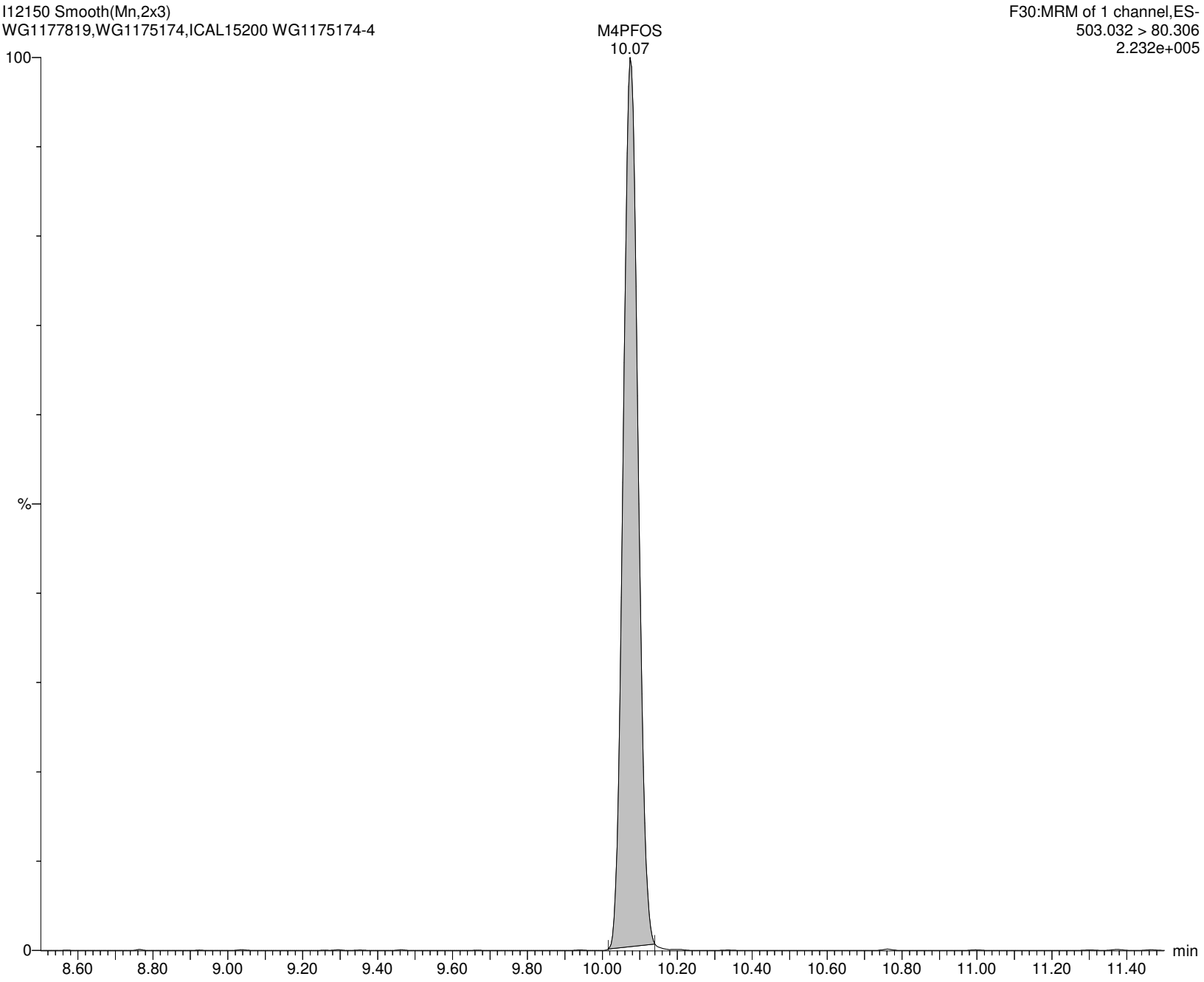

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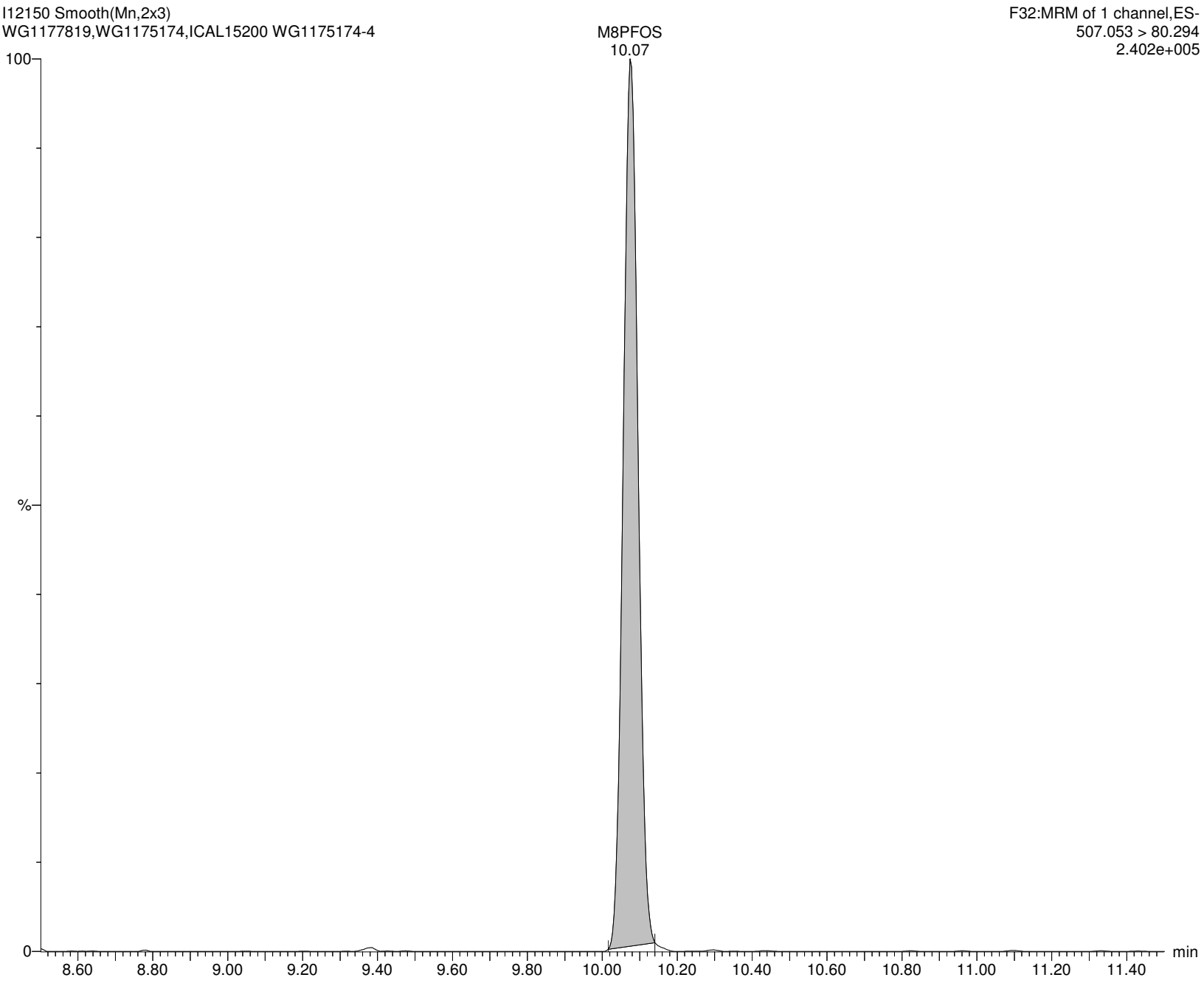

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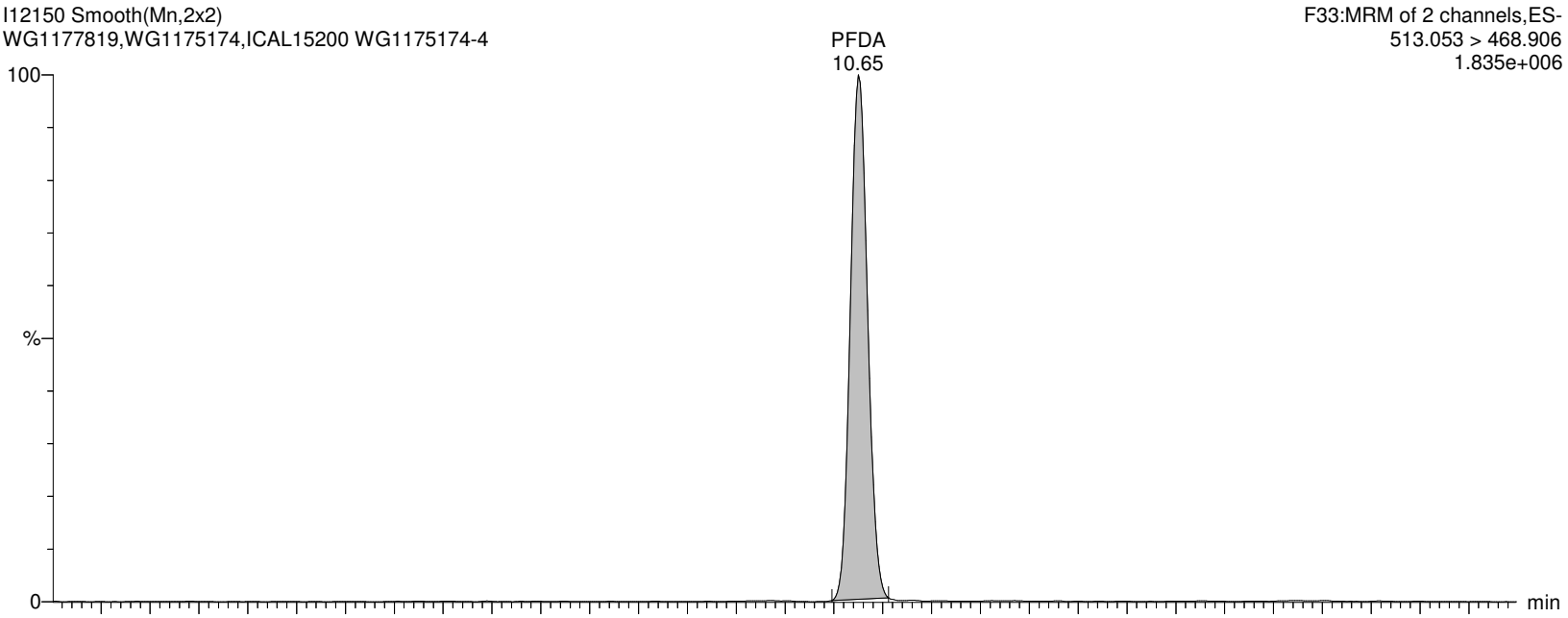

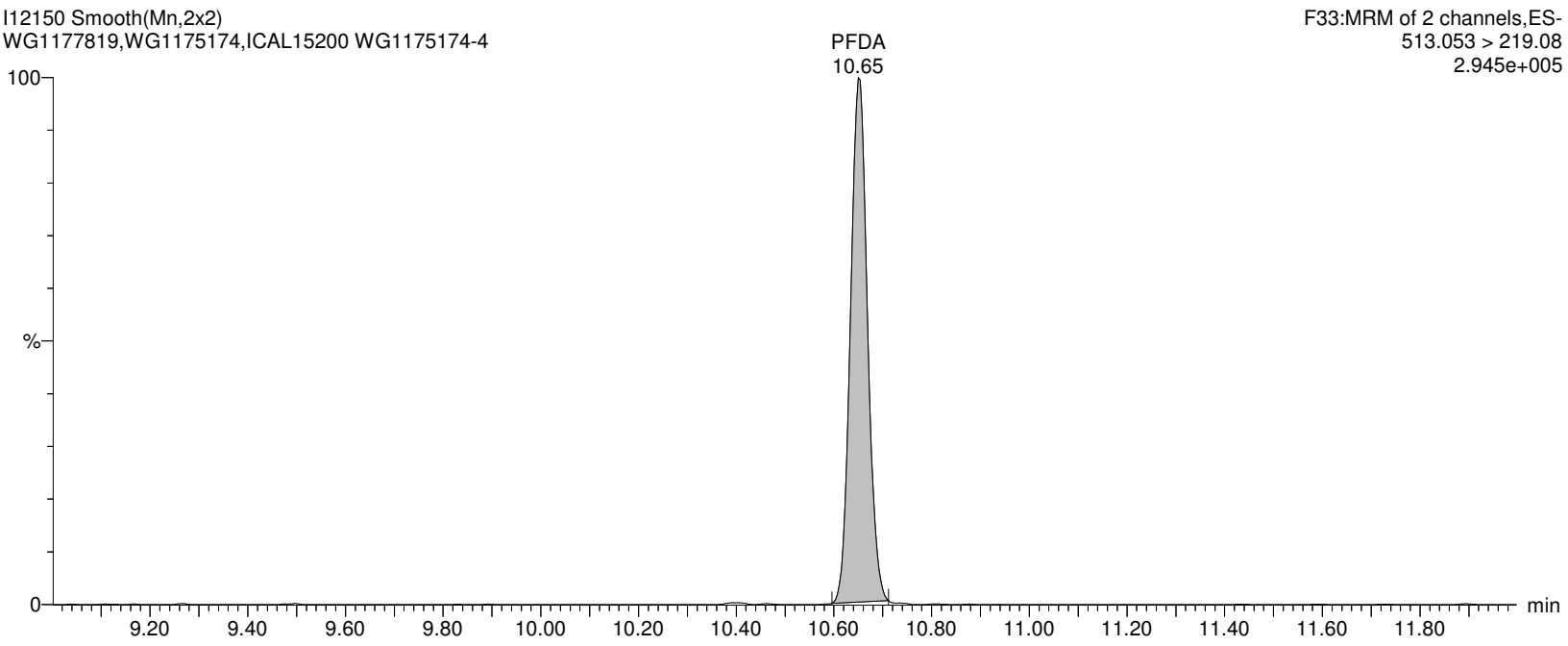

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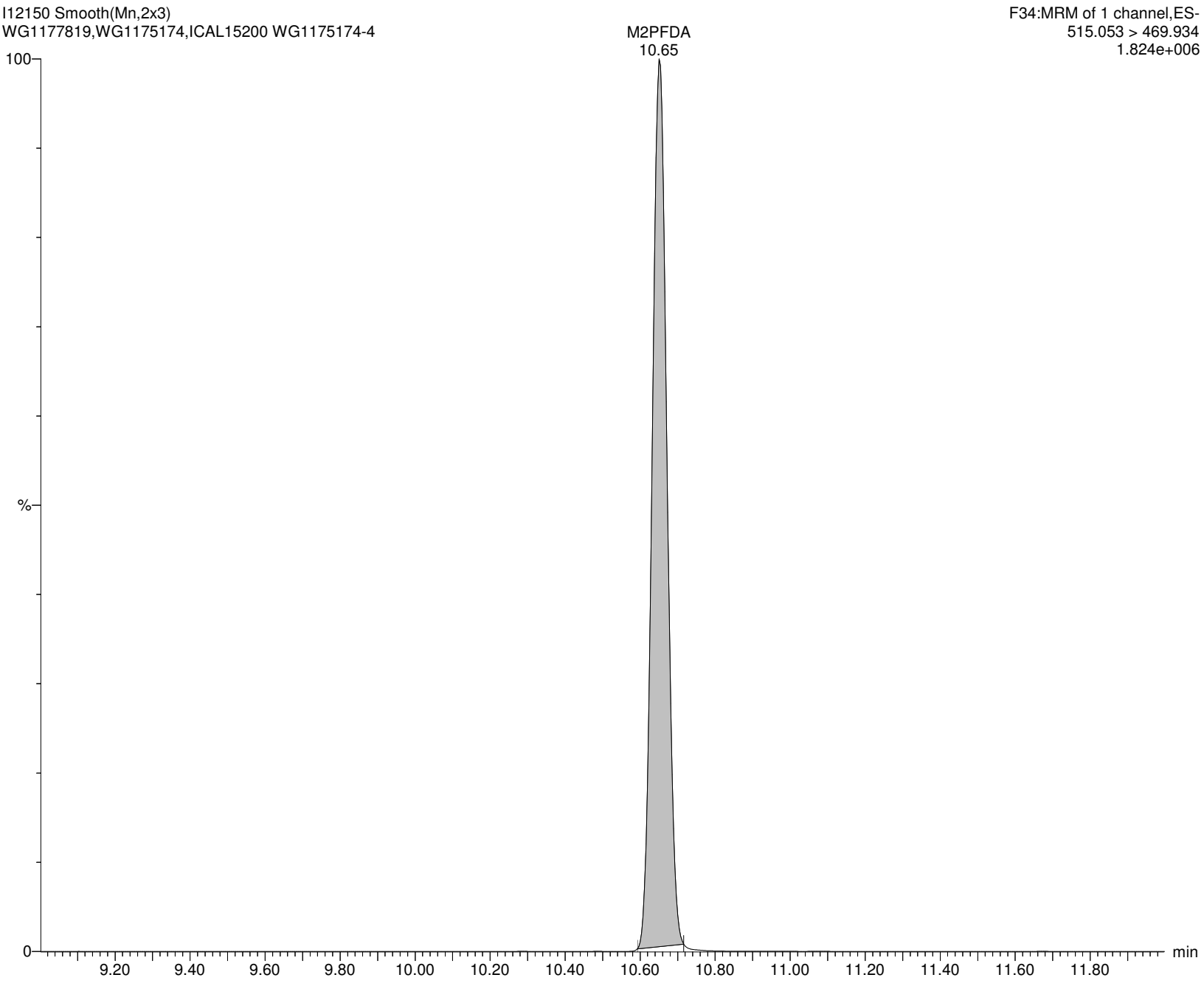

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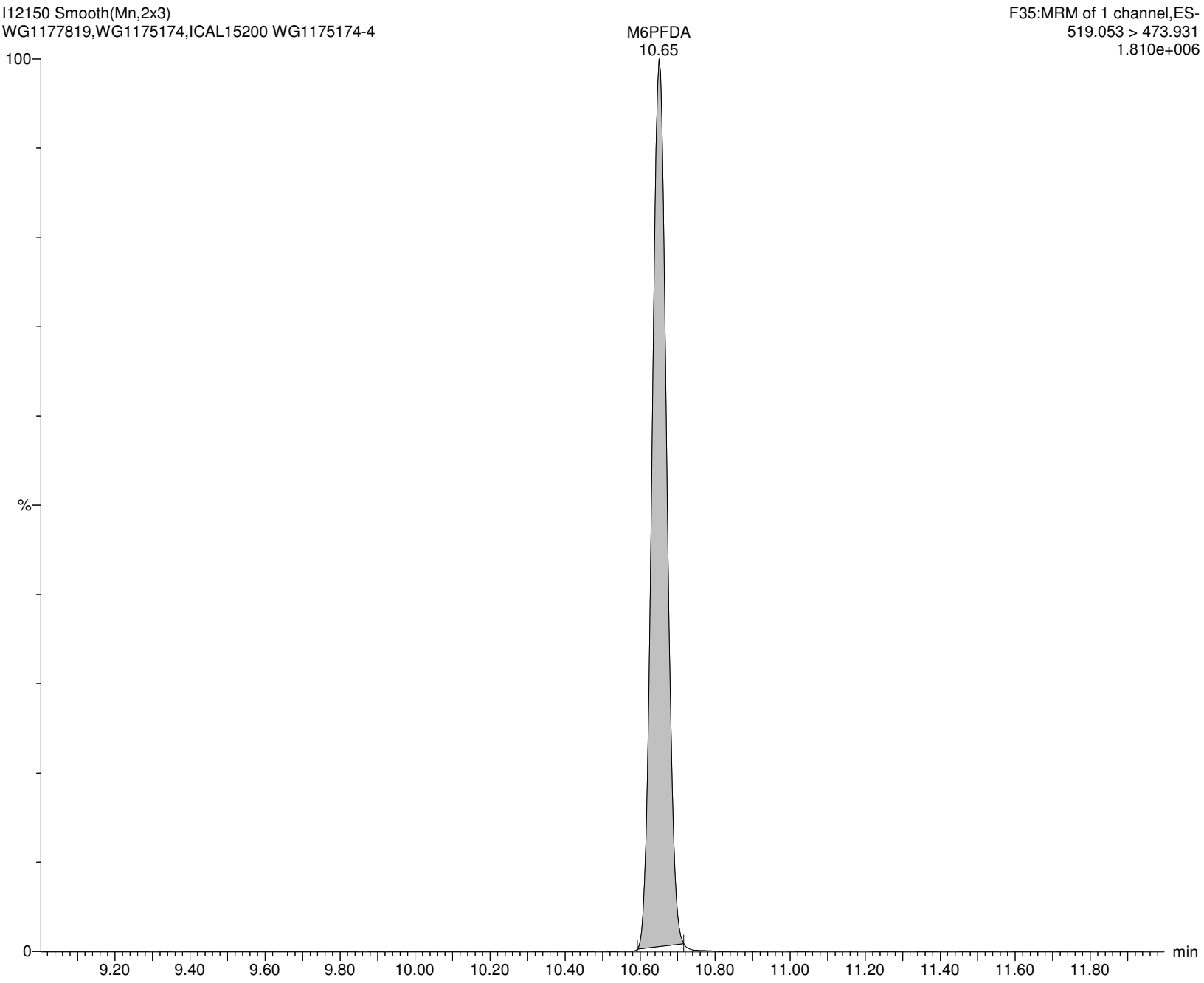

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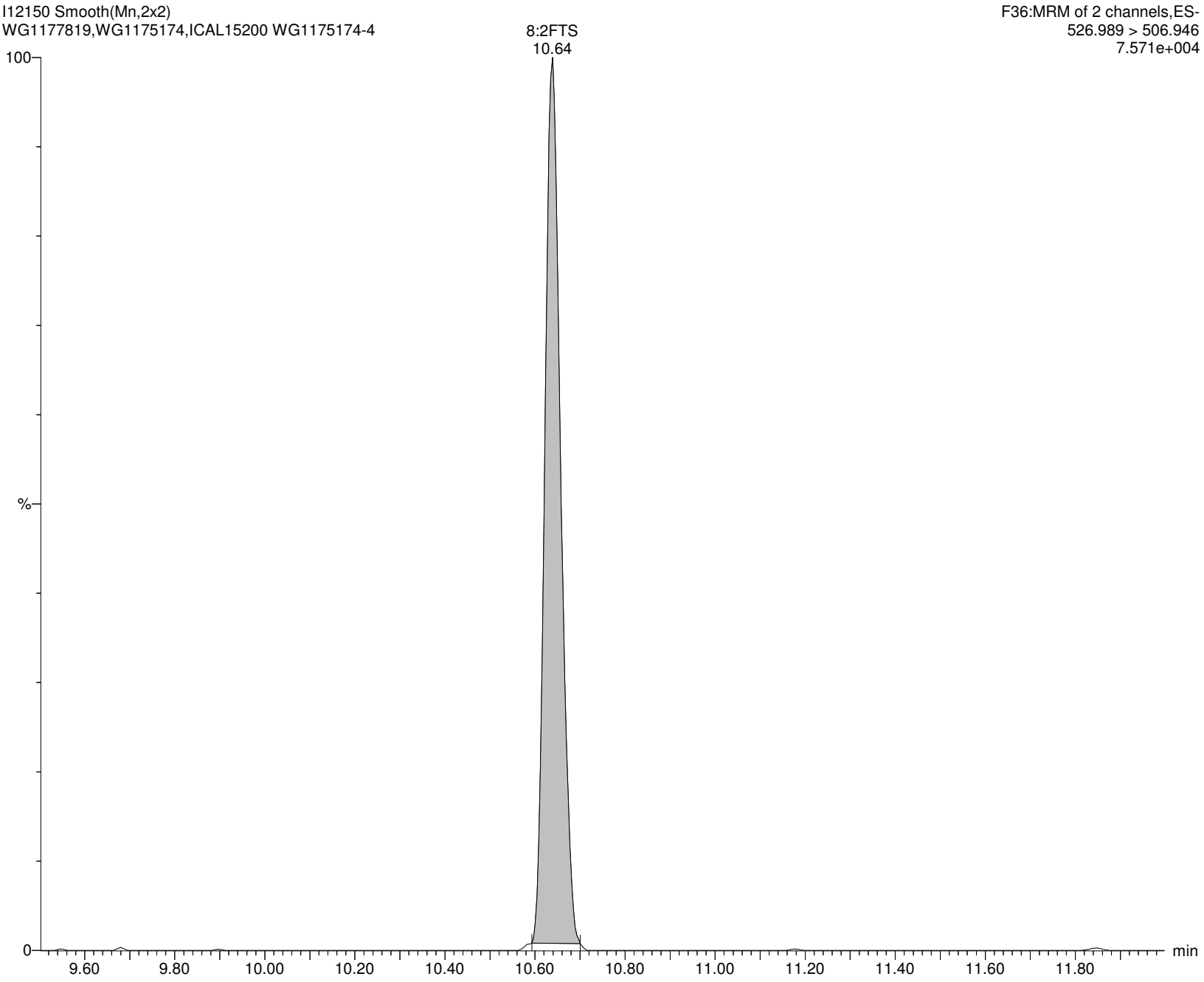
8:2FTS



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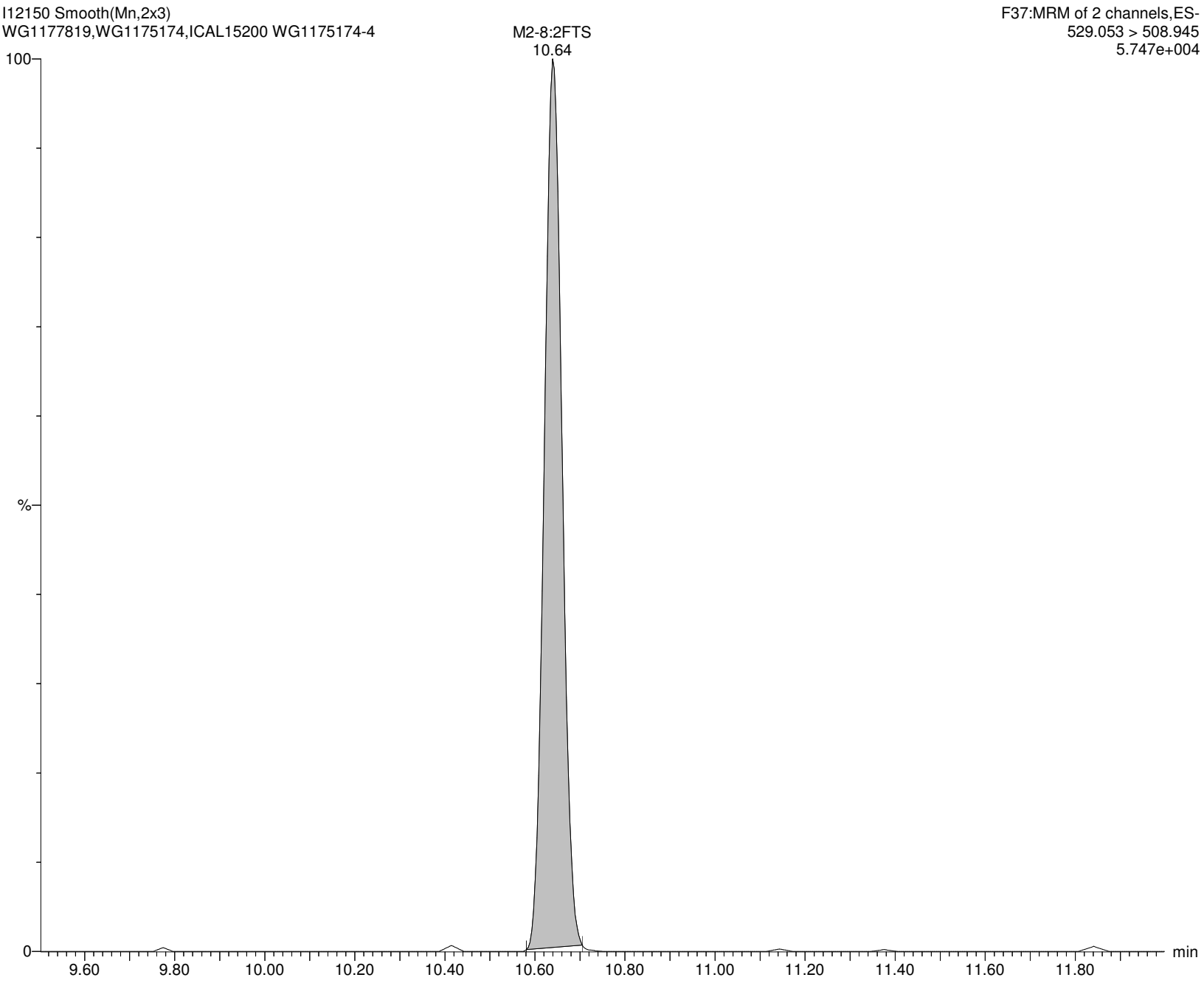
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:49 Eastern Standard Time

Name: I12150
ID: WG1175174-4
Date: 10-Nov-2018
Time: 06:18:41
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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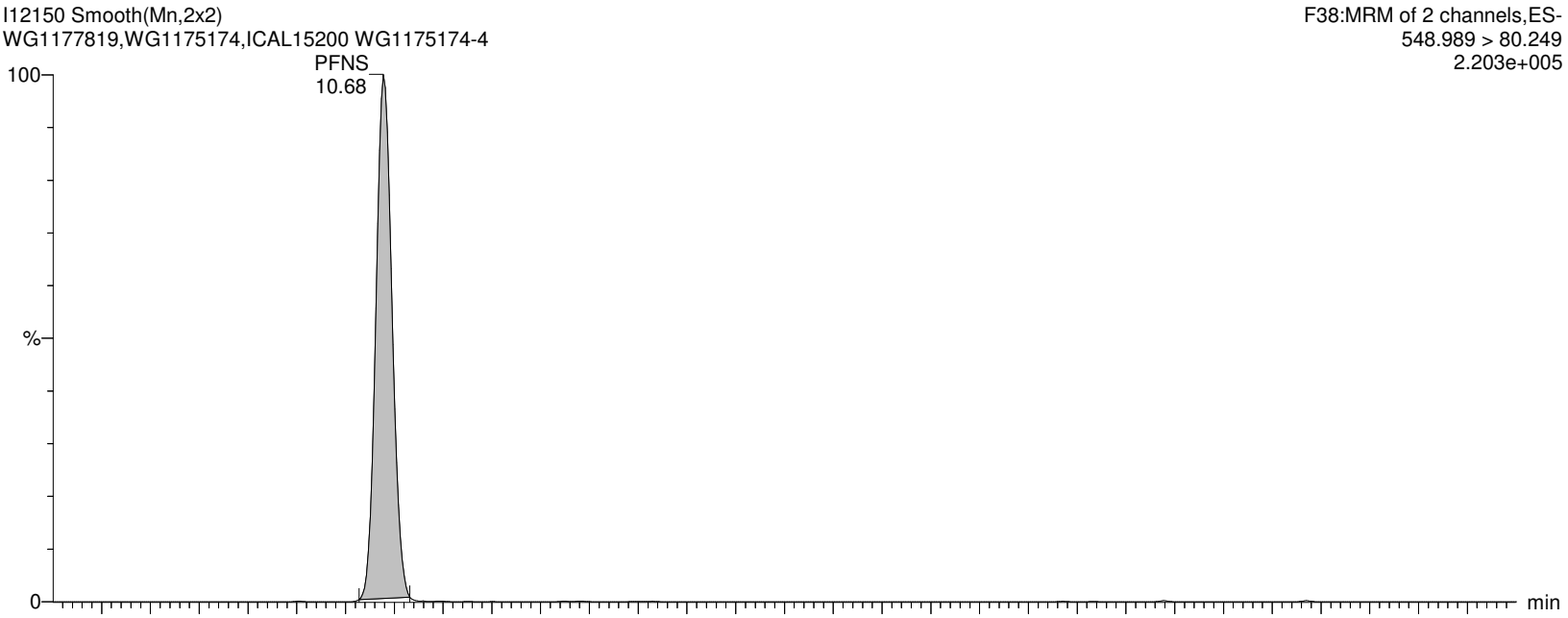

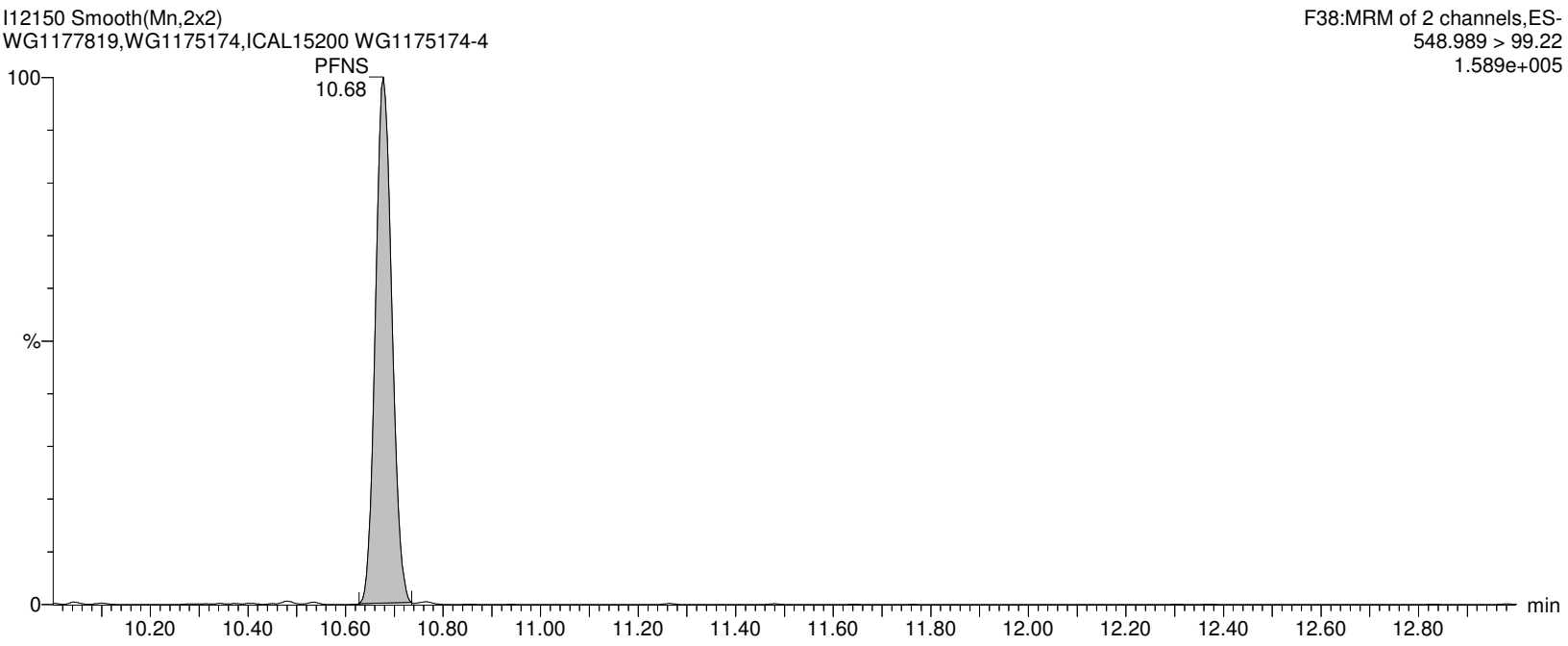

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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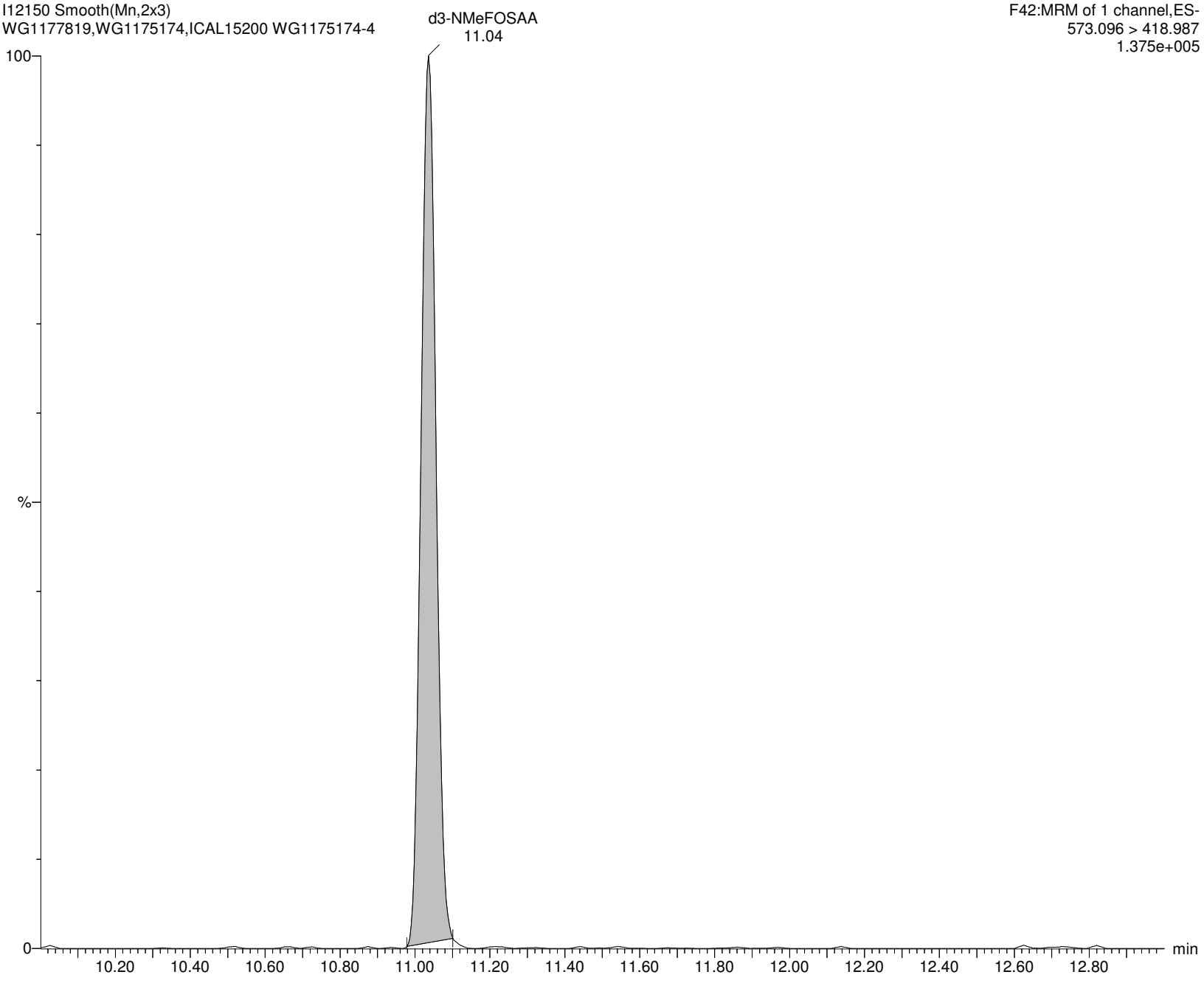
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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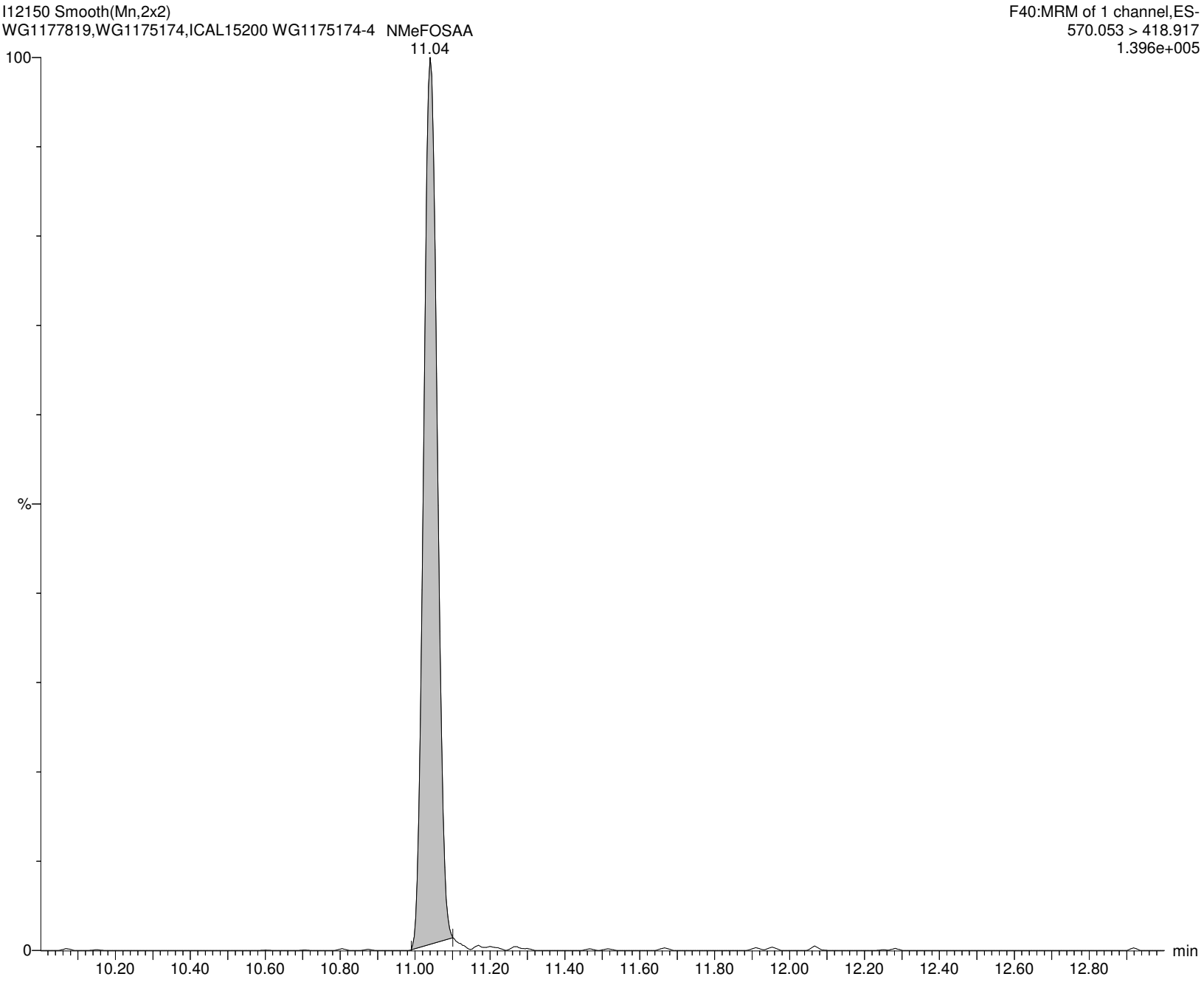

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Vial: 1:C,3
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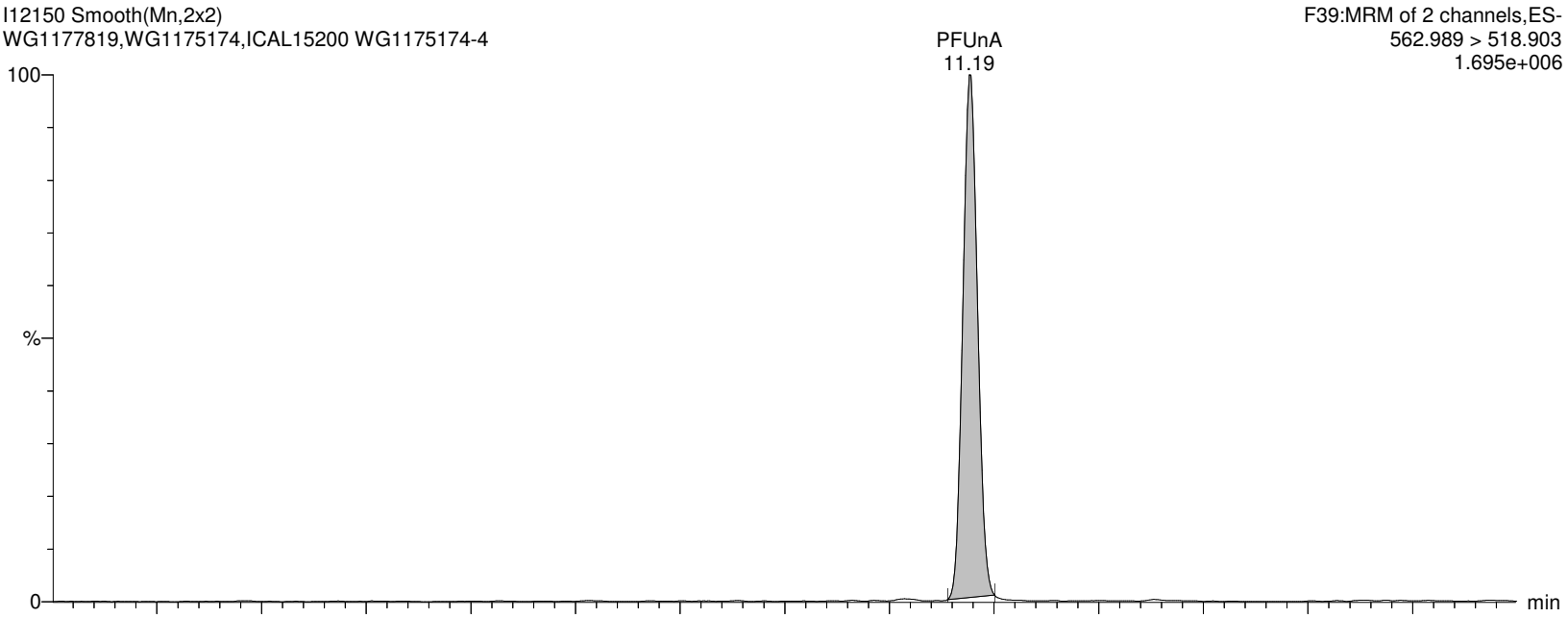

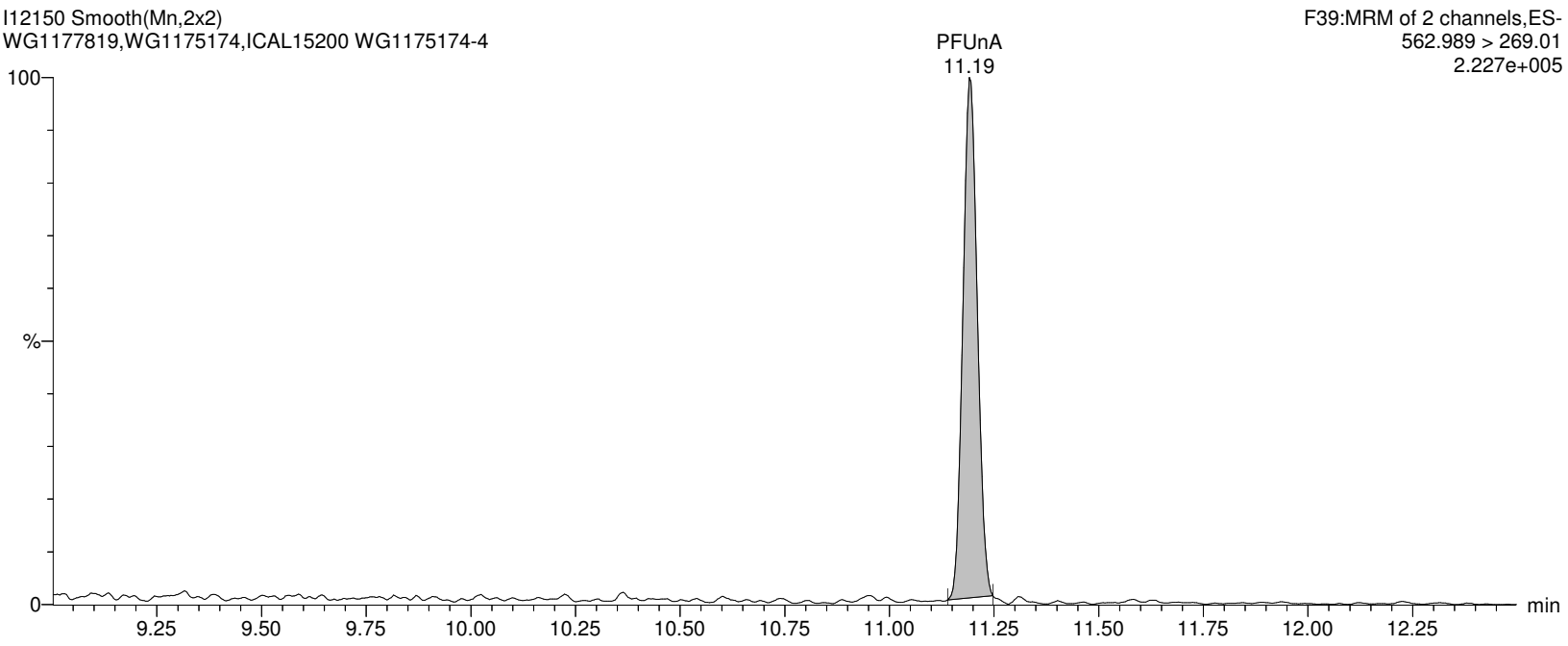

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Date: 10-Nov-2018
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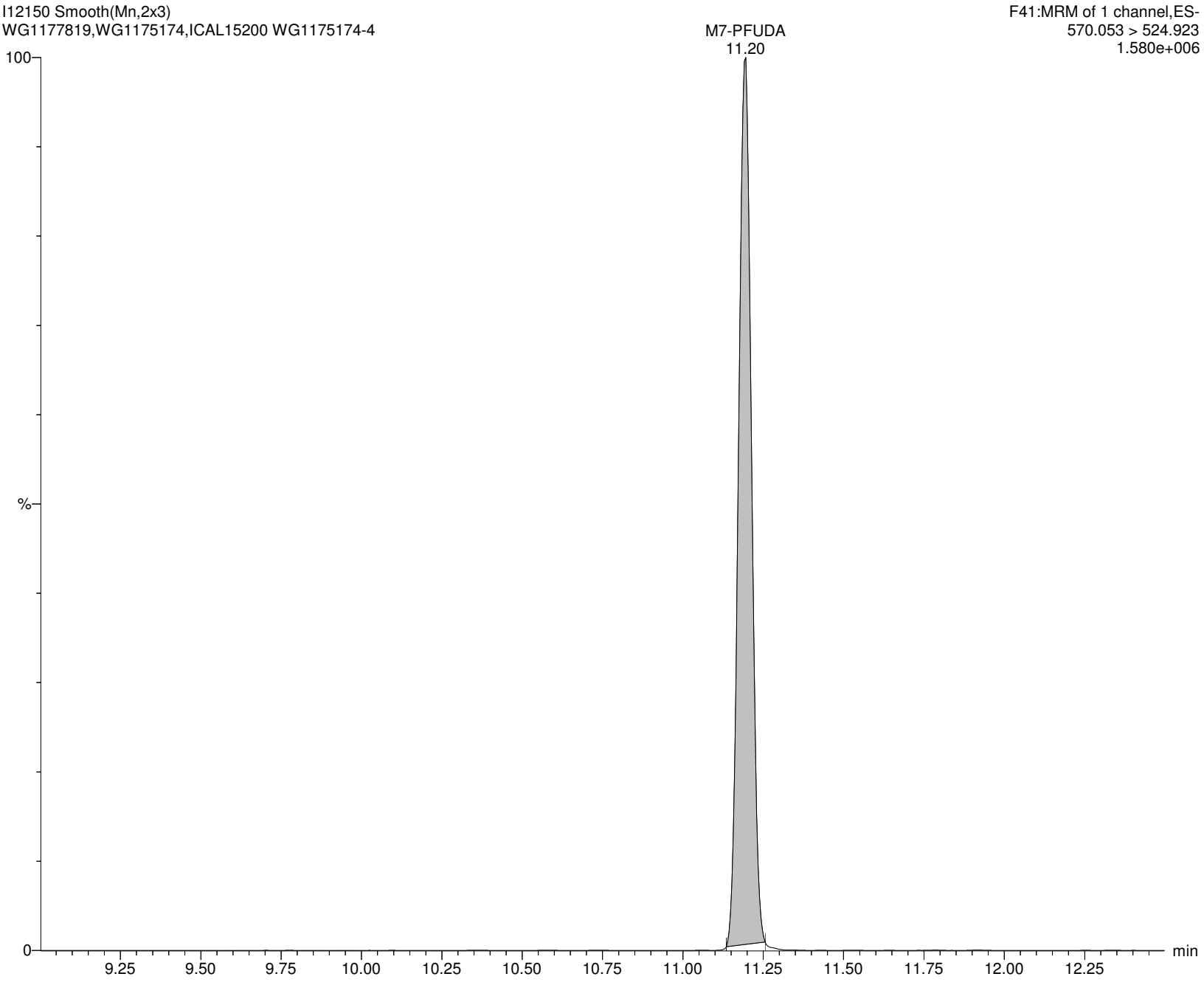
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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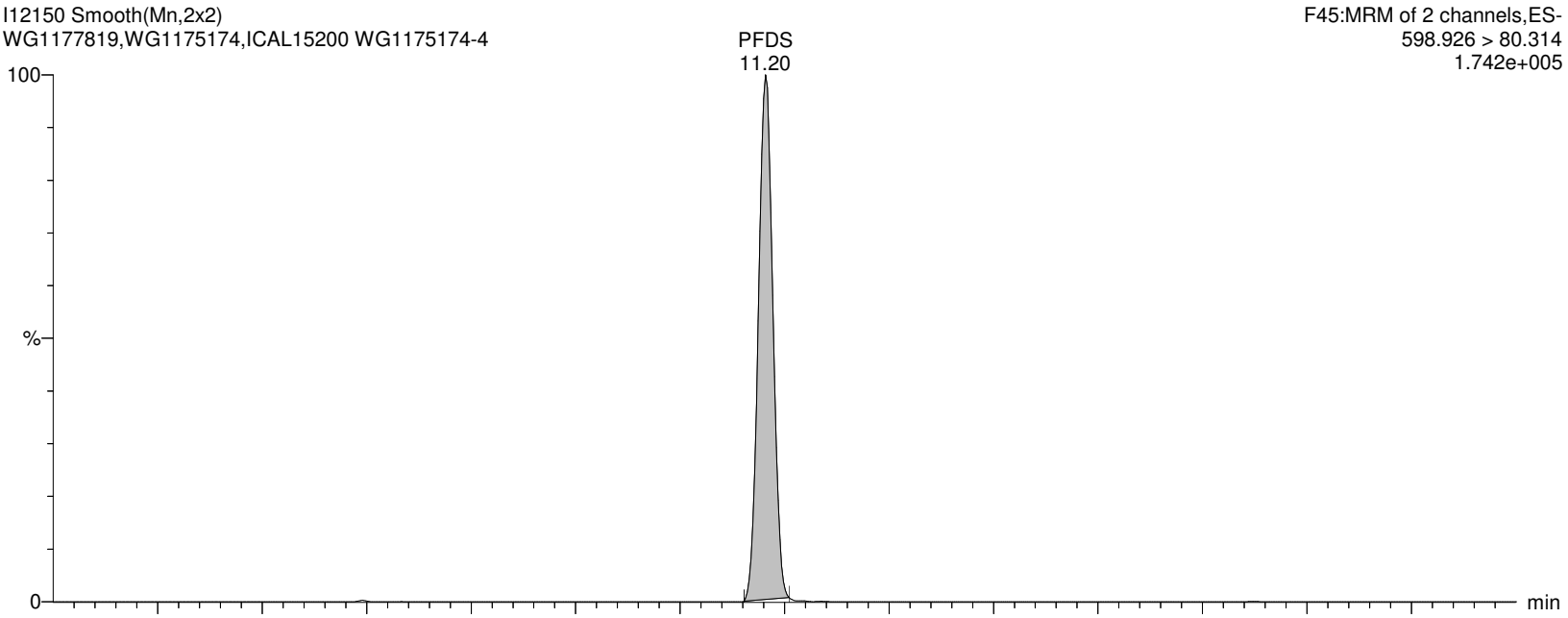

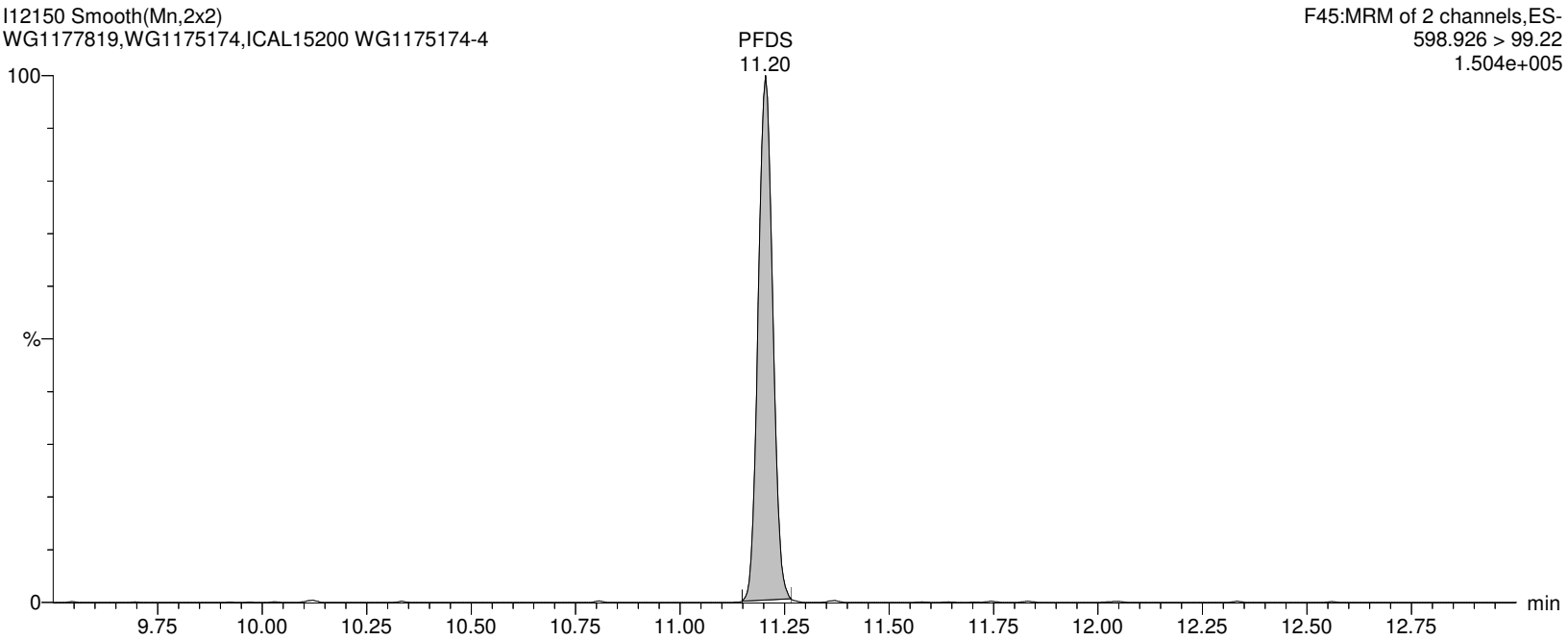

all concentration units in (ng/mL)

Alpha Analytical Inc.
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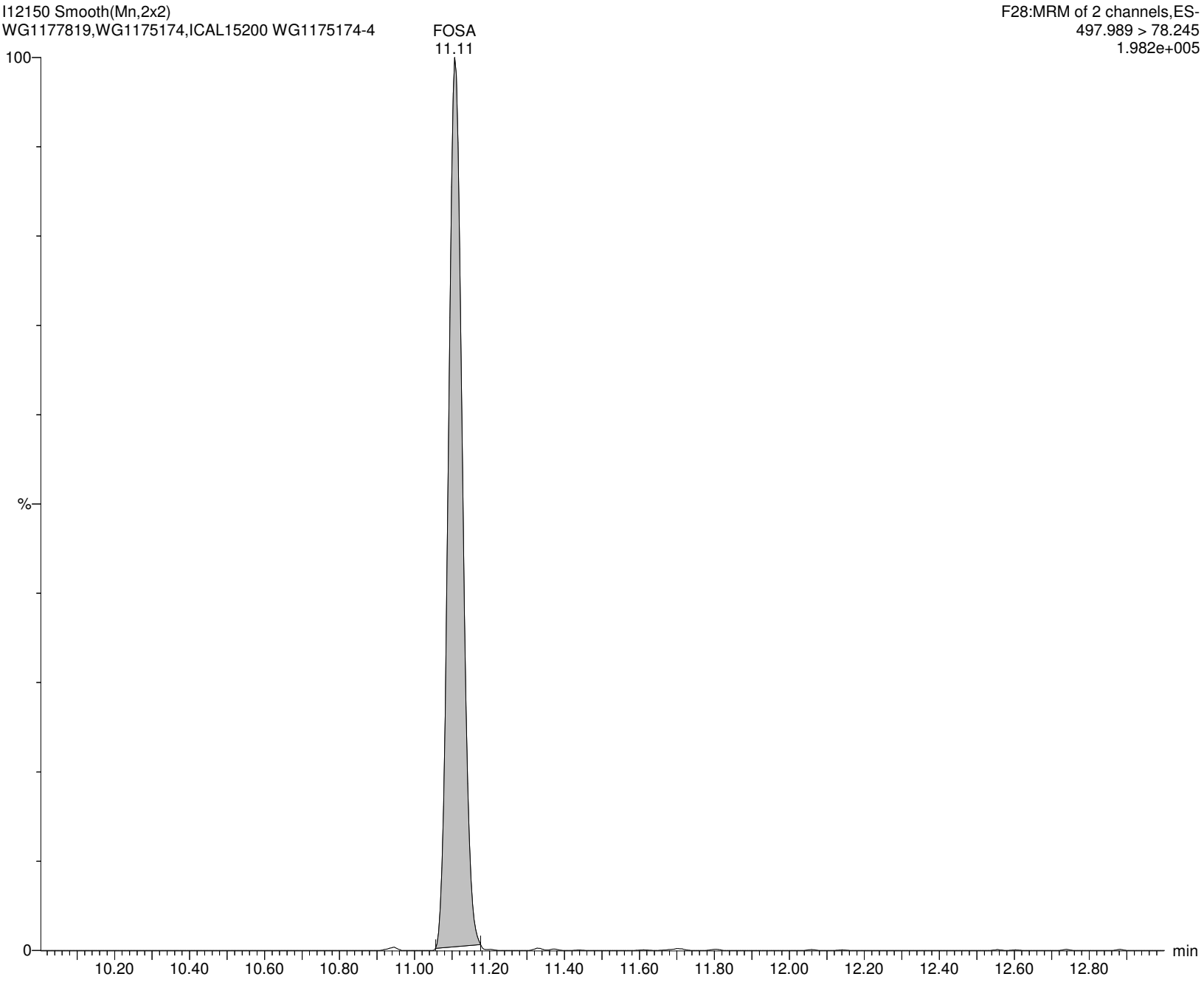

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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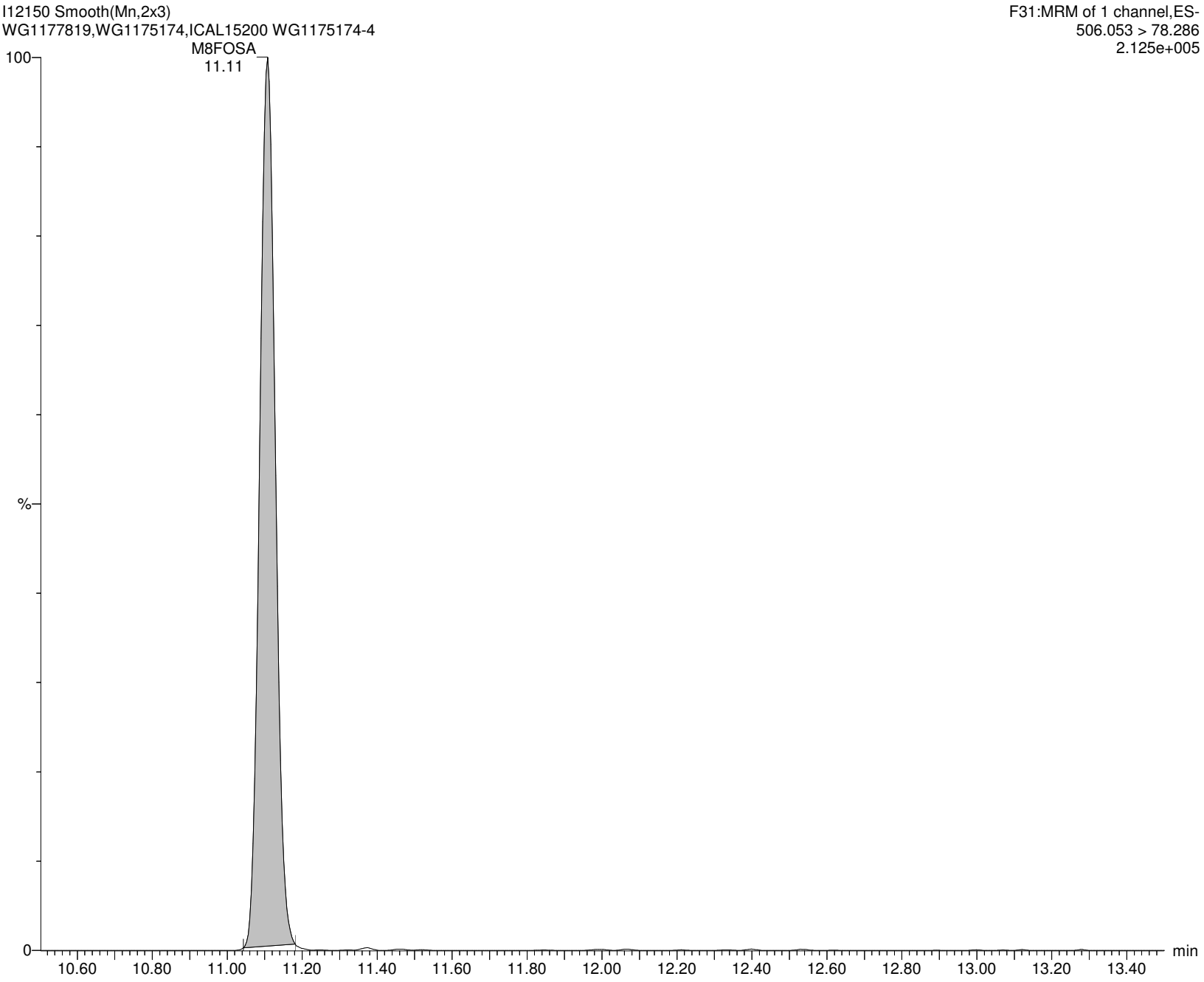

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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Vial: 1:C,3
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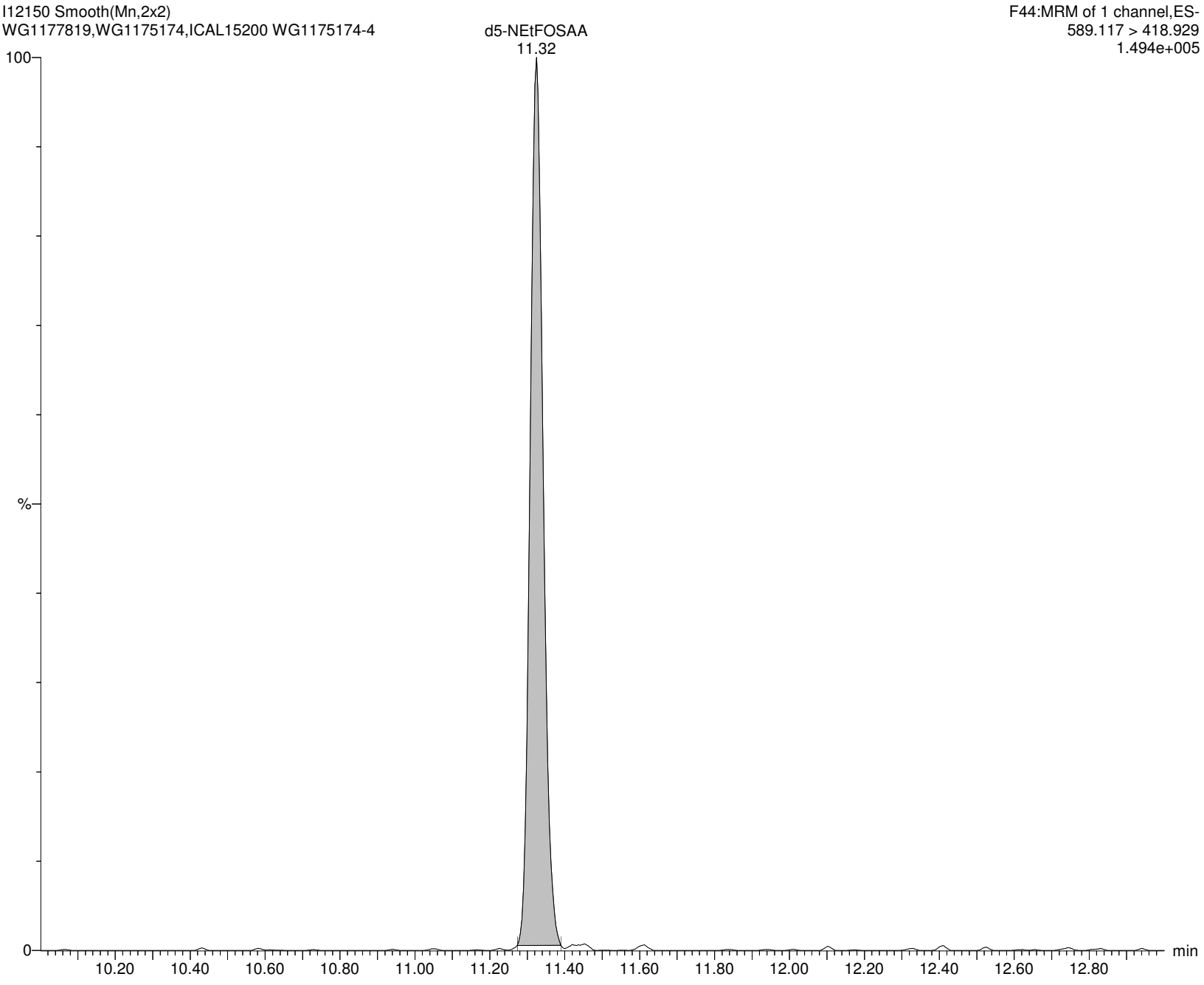
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Date: 10-Nov-2018
Time: 06:18:41
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Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
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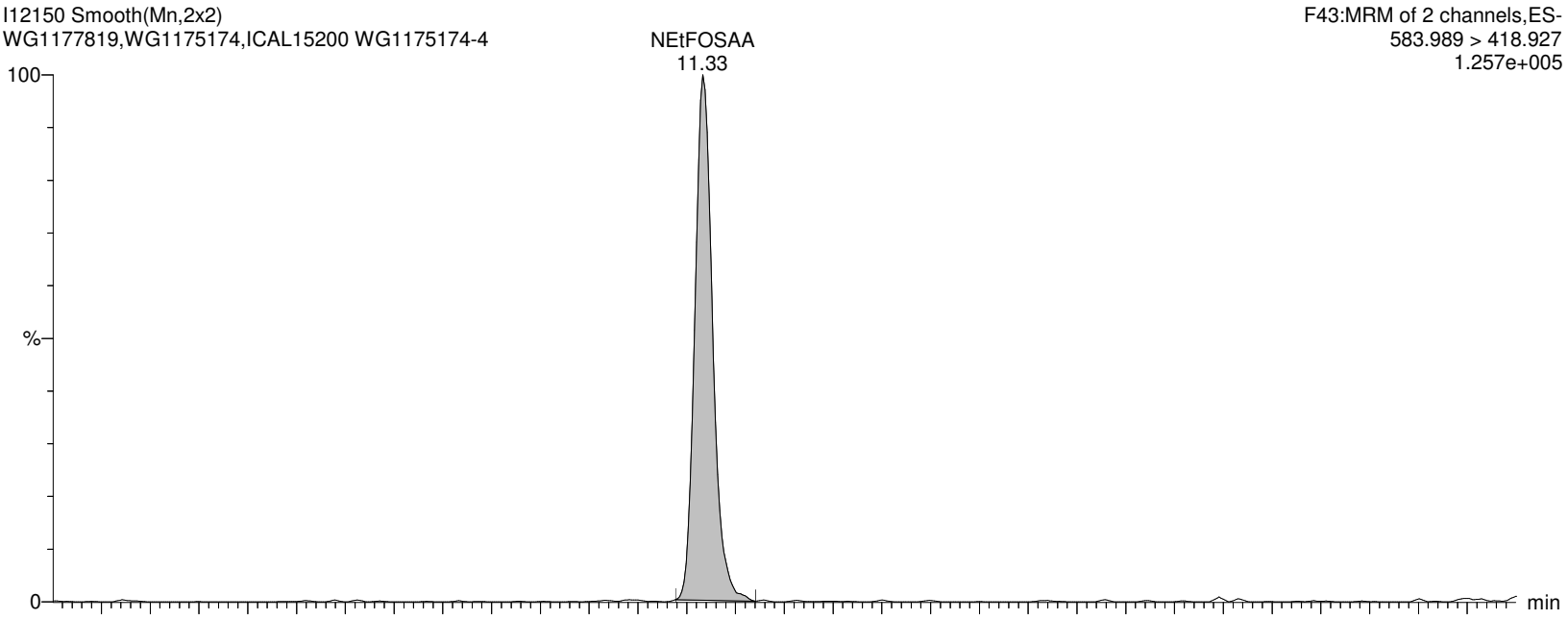

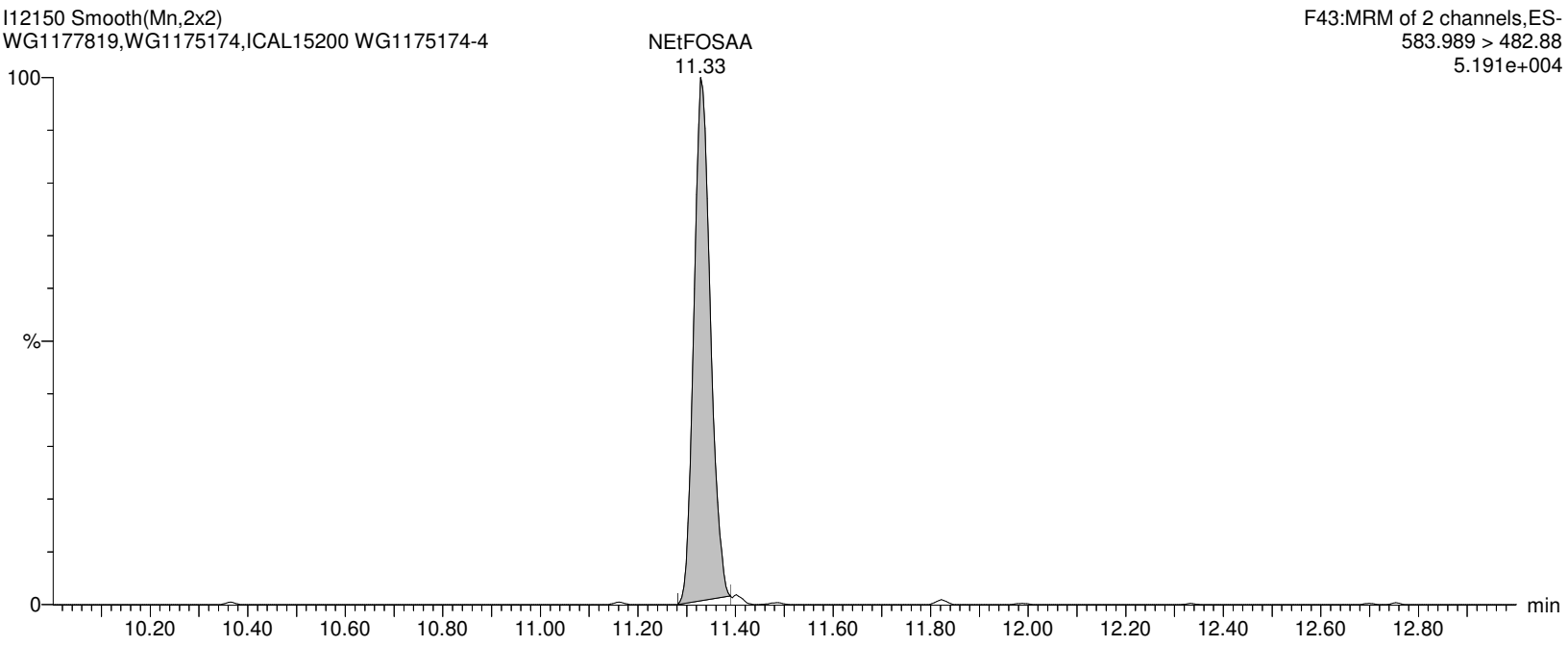

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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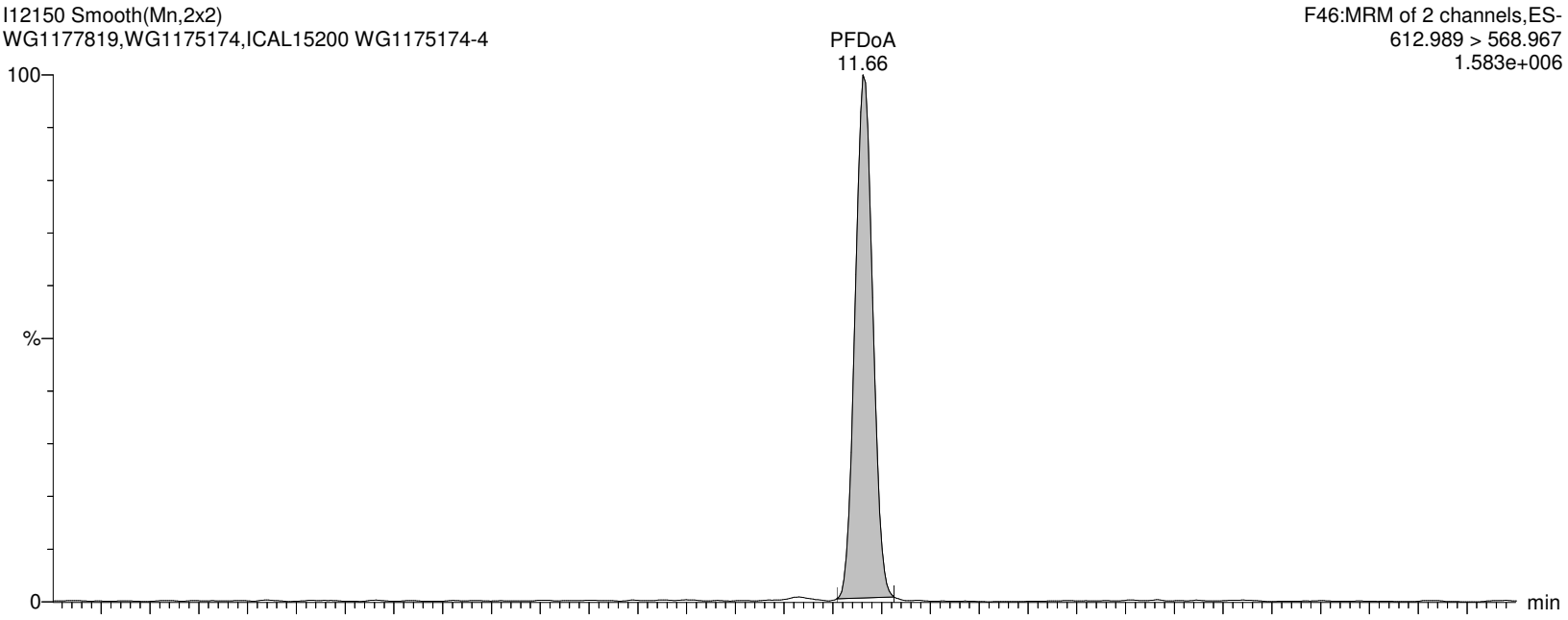

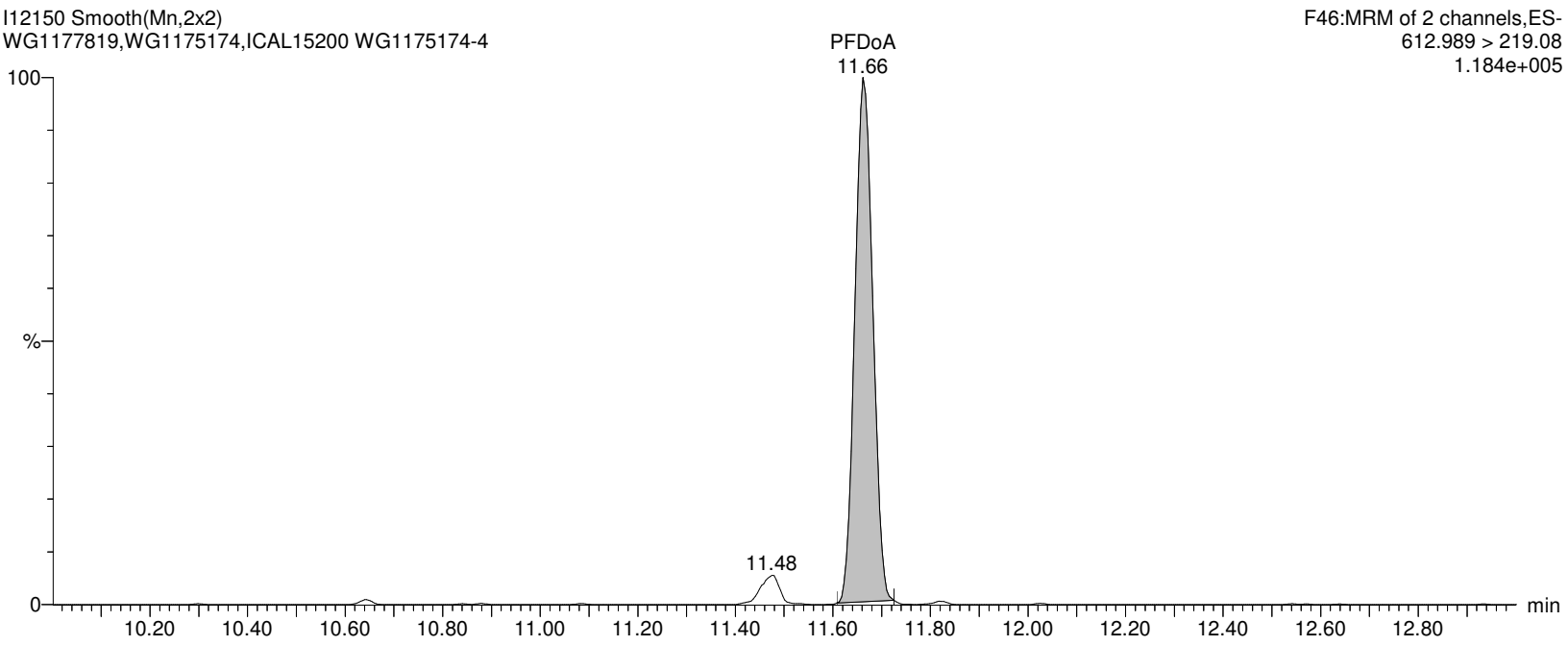

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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Time: 06:18:41
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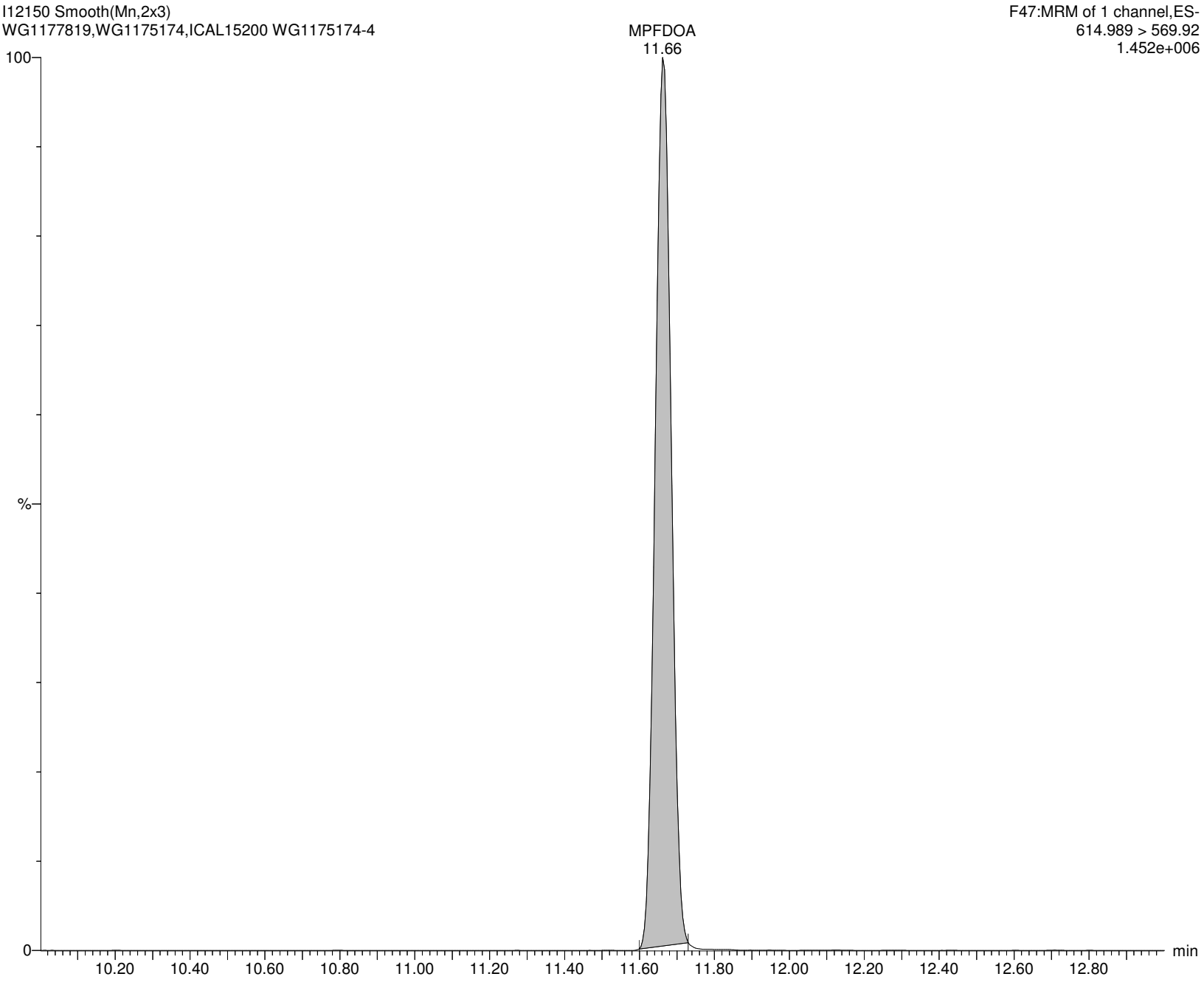

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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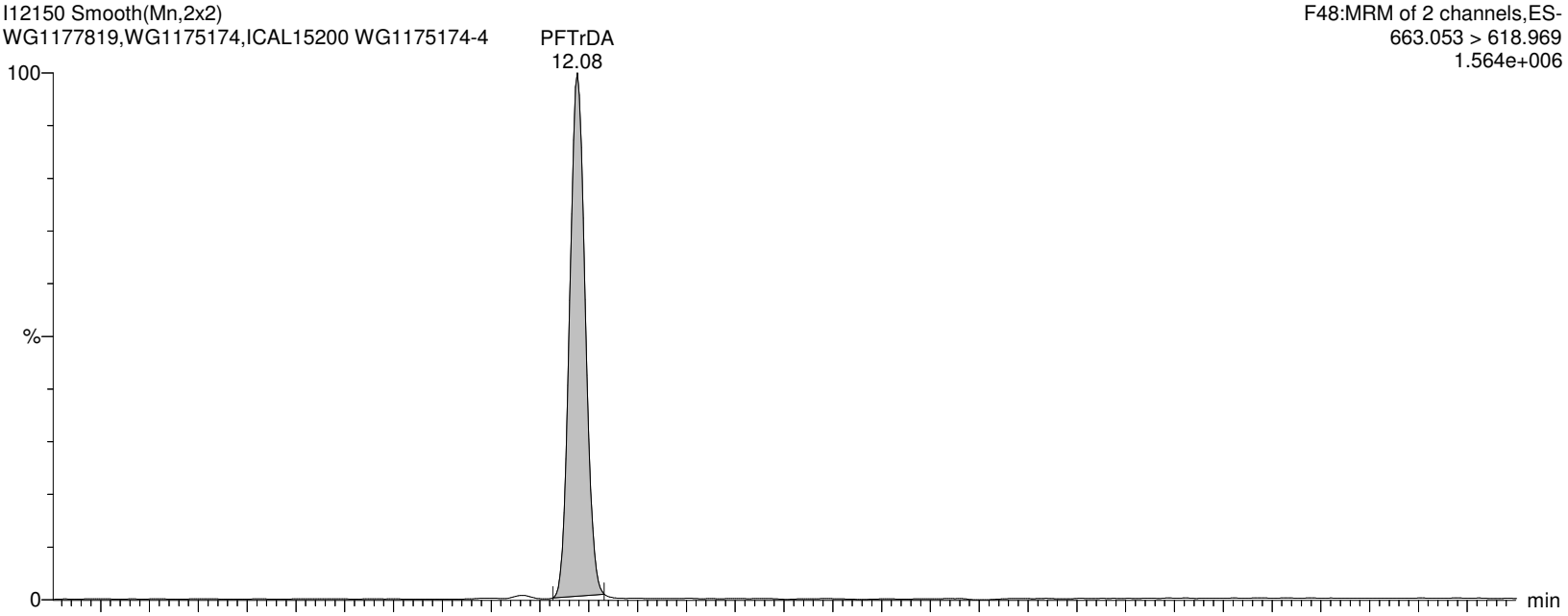

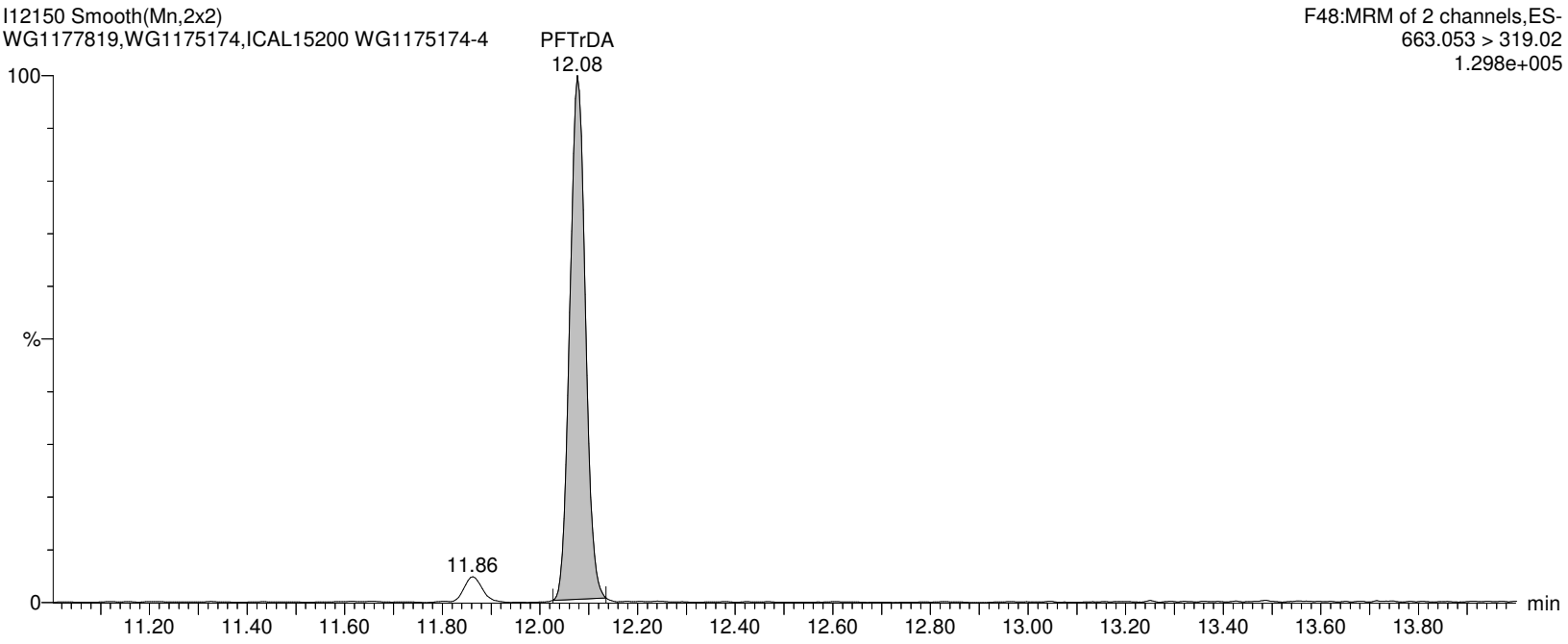

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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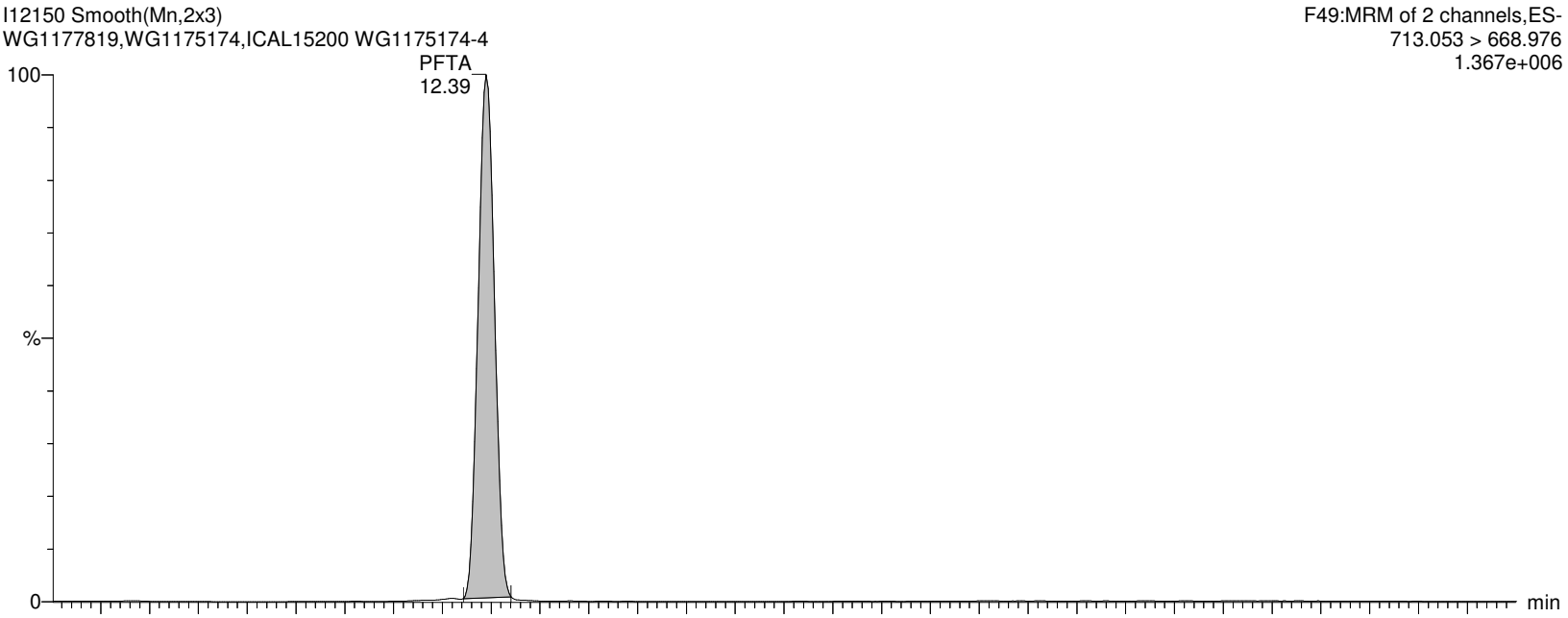
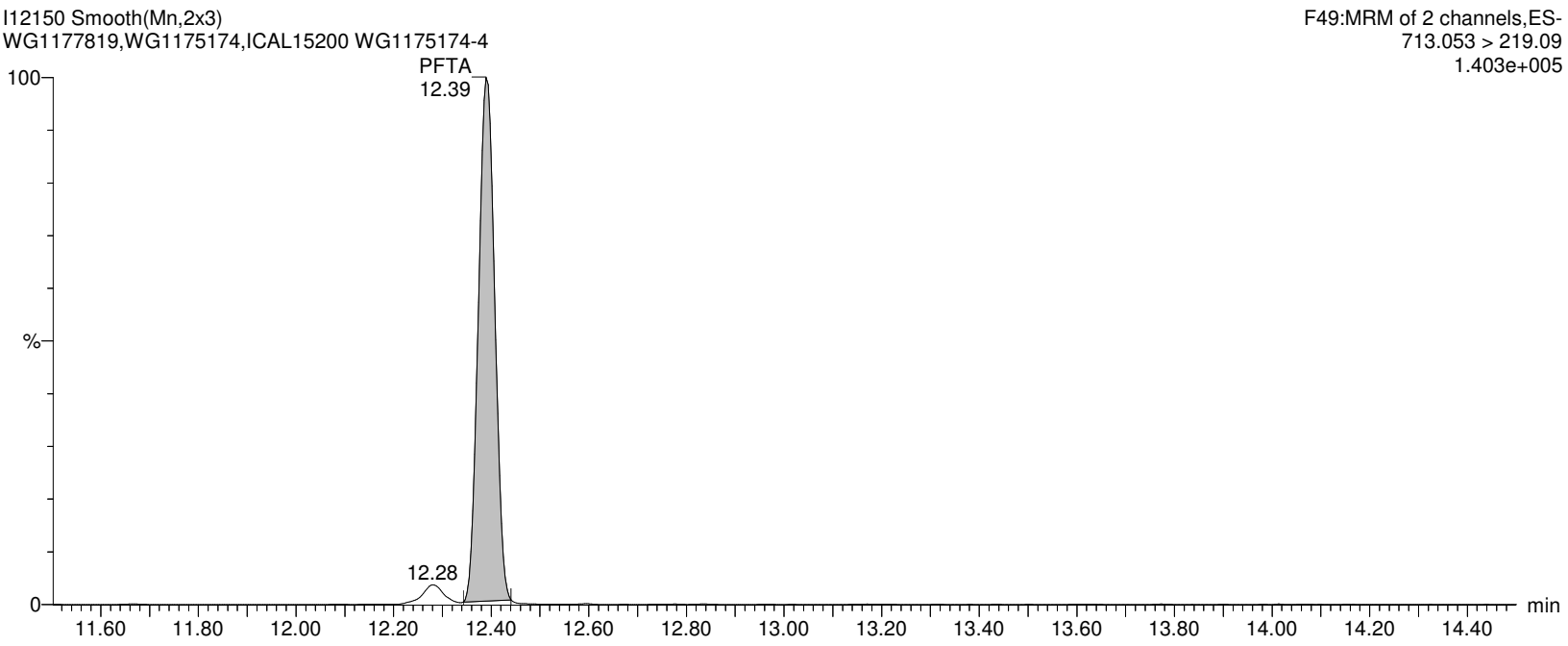
PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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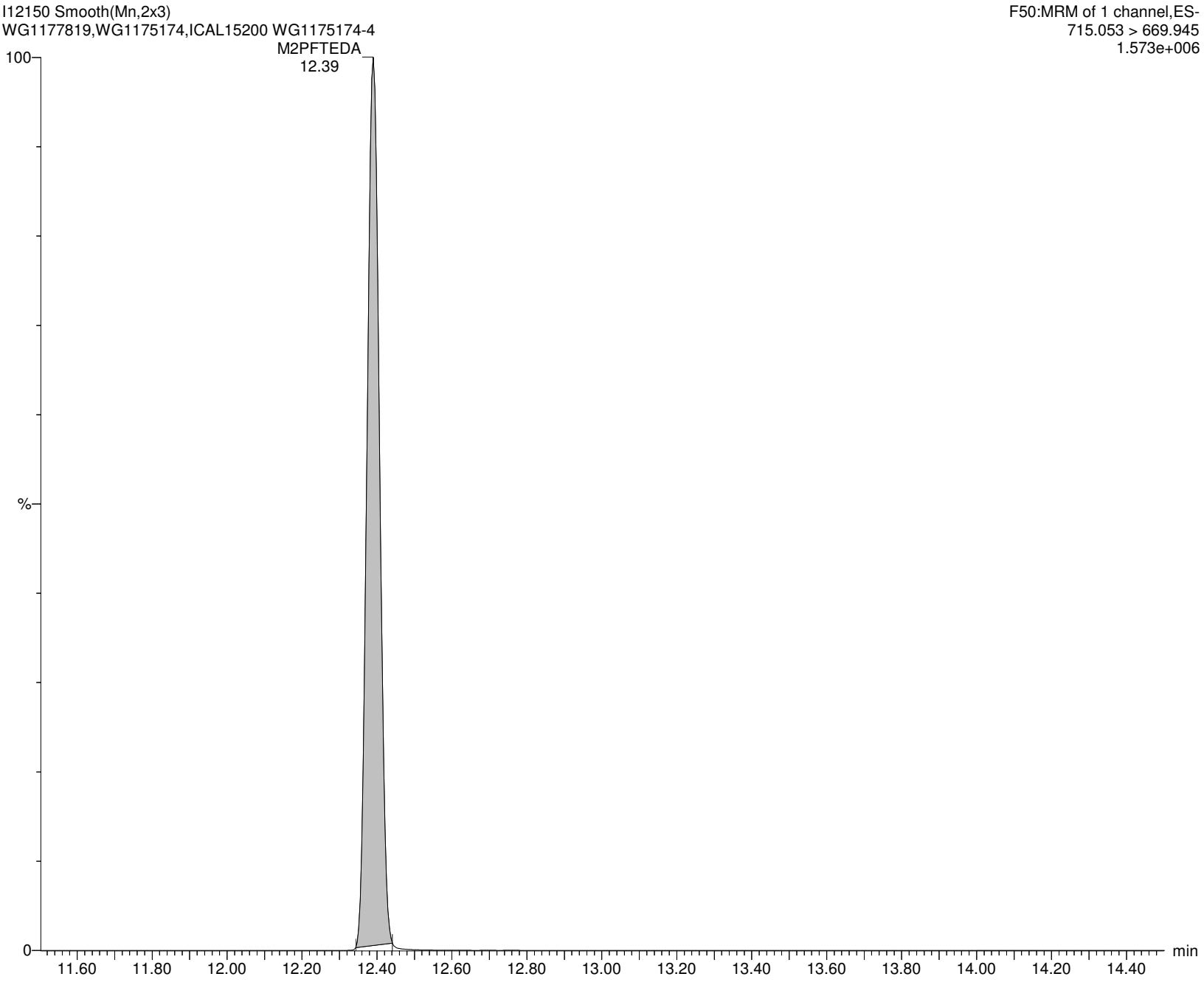

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	40337		10.977		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	41313		4.463		na	44.6
3	MPFBA	INT STD	2.15	216.926 > 172.137	42036		10.712		na	107.1
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	61955		11.203		na	
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	58681		11.587		na	115.9
6	PFBS	375-73-5	5.81	298.989 > 80.295	12690		12.478		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	11471		8.654		na	86.5
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	5852		10.042	1.88	YES	
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	5908		7.185		na	71.9
10	PFHxA	307-24-4	7.06	312.989 > 269.028	84821		11.669	20.06	NO	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	74899		9.038		na	90.4
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	13953		10.335	2.08	NO	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	105116		10.467	5.40	NO	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	102014		10.469		na	104.7
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	1682		1.324	2.16	YES	
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	11333		10.299	1.46	NO	
17	PFHxS	355-46-4		398.926 > 80.295	13014		11.623		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	7804		10.599		na	106.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	101519		10.967	8.87	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	115033		6.092		na	60.9
22	PFOA	335-67-1		412.989 > 368.9	101519		10.967		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	94884		10.228		na	102.3
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	4678		11.088		na	
25	M2-6:2FTS	INT STD	9.24	428.989 > 408.917	4334		6.350		na	63.5
26	PFHpS	375-92-8	9.37	448.926 > 80.257	7111		10.813	0.94	YES	
27	PFNA	375-95-1	10.02	462.989 > 418.931	83956		11.500	4.78	NO	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	87407		9.447		na	94.5
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	3444		2.212	4.26	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	7601		6.851	1.77	YES	
31	PFOS	1763-23-1		498.989 > 80.294	11045		9.064		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10633		6.564		na	65.6
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10621		10.711		na	107.1
34	PFDA	335-76-2	10.65	513.053 > 468.906	80686		11.798	5.98	NO	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	85336		5.740		na	57.4
36	M6PFDA	INT STD	10.65	519.053 > 473.931	77101		10.006		na	100.1
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	3487		10.721		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2709		6.759		na	67.6
39	PFNS	68259-12-1	10.67	548.989 > 80.249	8638		11.944	1.27	NO	

all concentration units in (ng/mL)

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Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

ID: WG1175174-6
Name: I12155
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	6147		7.400		na	74.0
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	6913		11.181		na	
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	76235		10.600	8.24	NO	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	72388		11.224		na	112.2
44	PFDS	335-77-3	11.20	598.926 > 80.314	7645		11.994	1.20	NO	
45	FOSA	754-91-6	11.10	497.989 > 78.245	6519		9.517		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	7003		2.547		na	25.5
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5601		6.990		na	69.9
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	5330		9.308	2.76	YES	
49	PFDoA	307-55-1	11.66	612.989 > 568.967	75889		11.216	13.64	NO	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	72557		10.013		na	100.1
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	62904		11.056	12.54	NO	
52	PFTA	376-06-7	12.39	713.053 > 668.976	56211		11.810	9.55	NO	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	56684		10.561		na	105.6

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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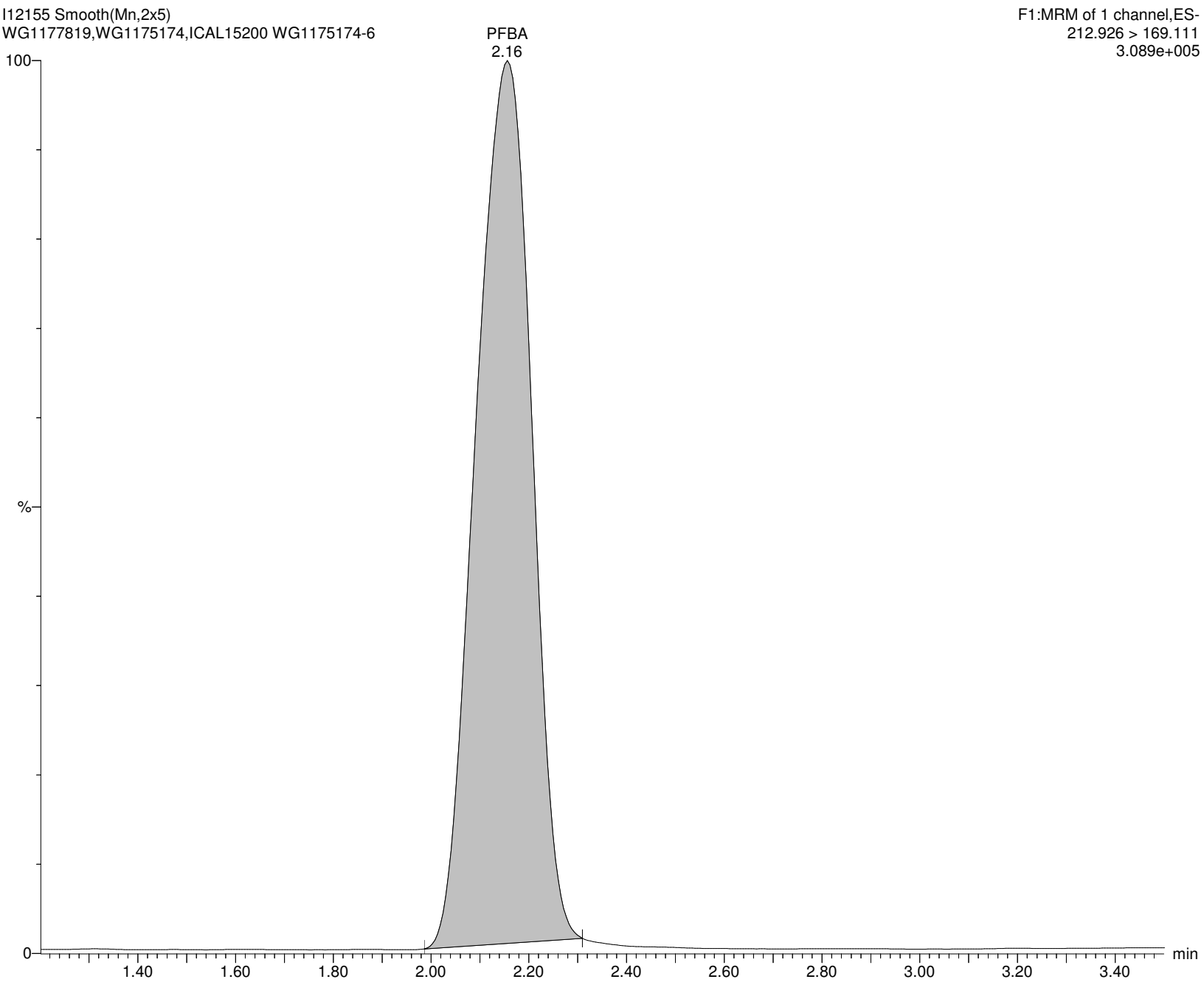

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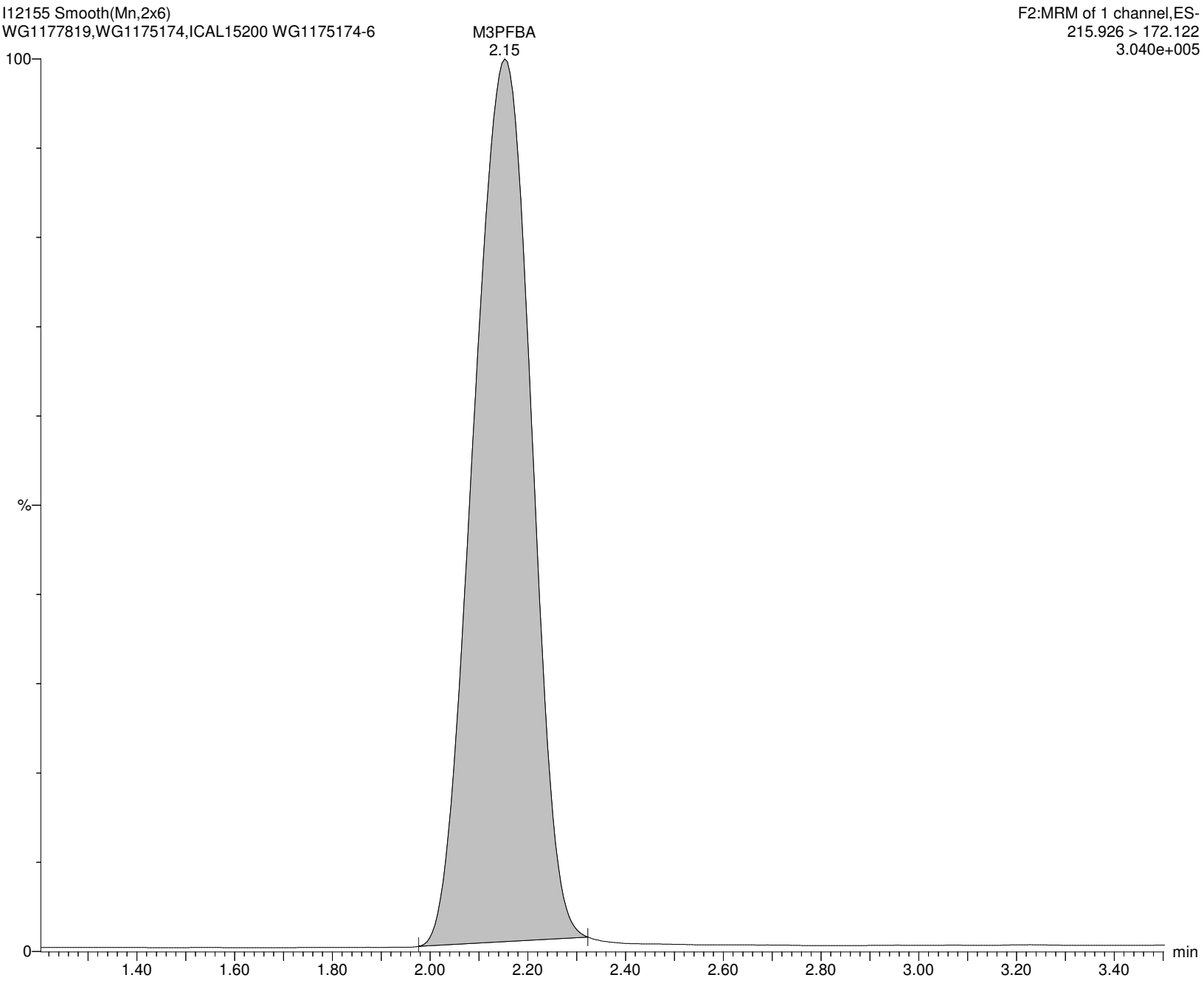

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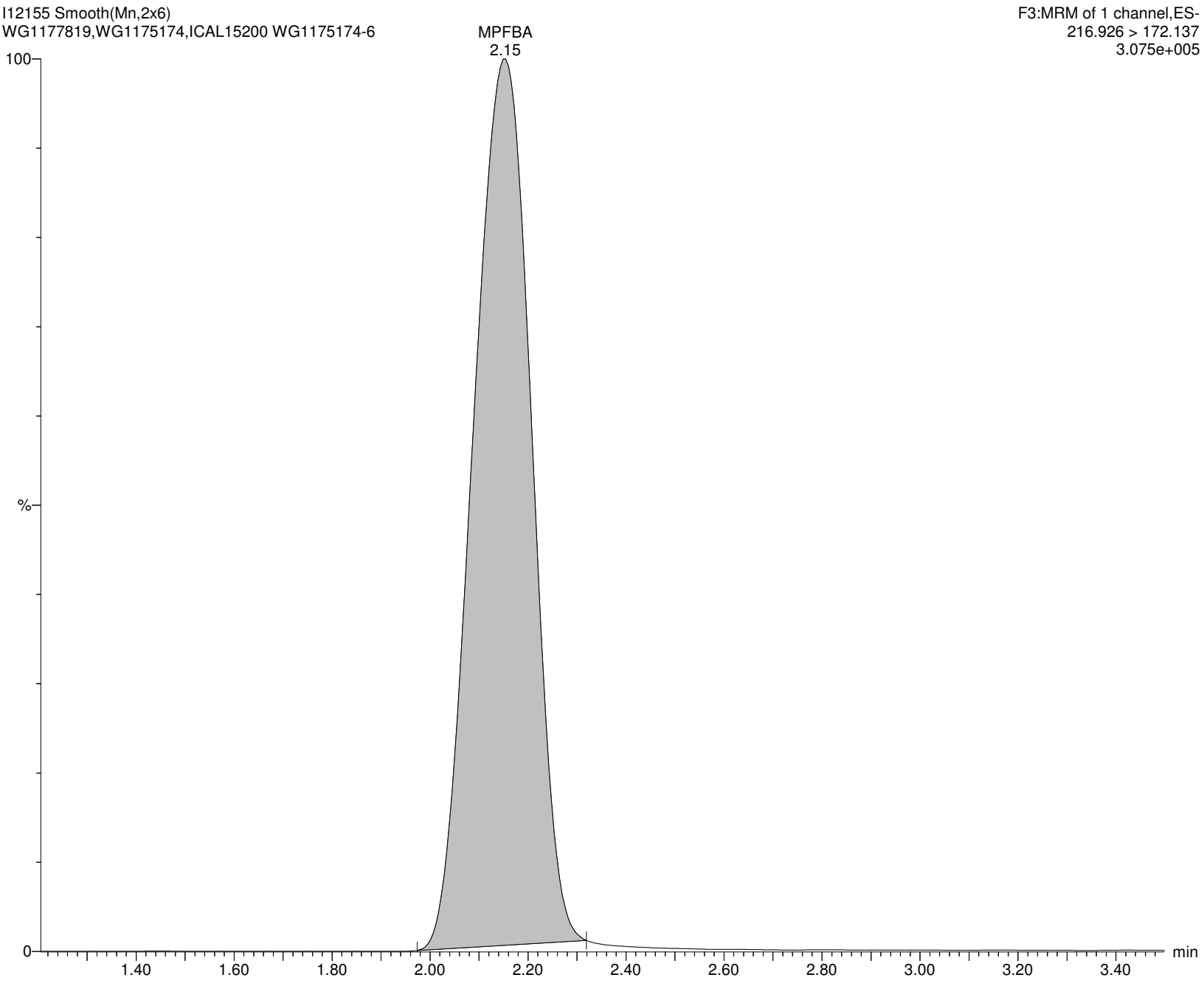
MPFBA



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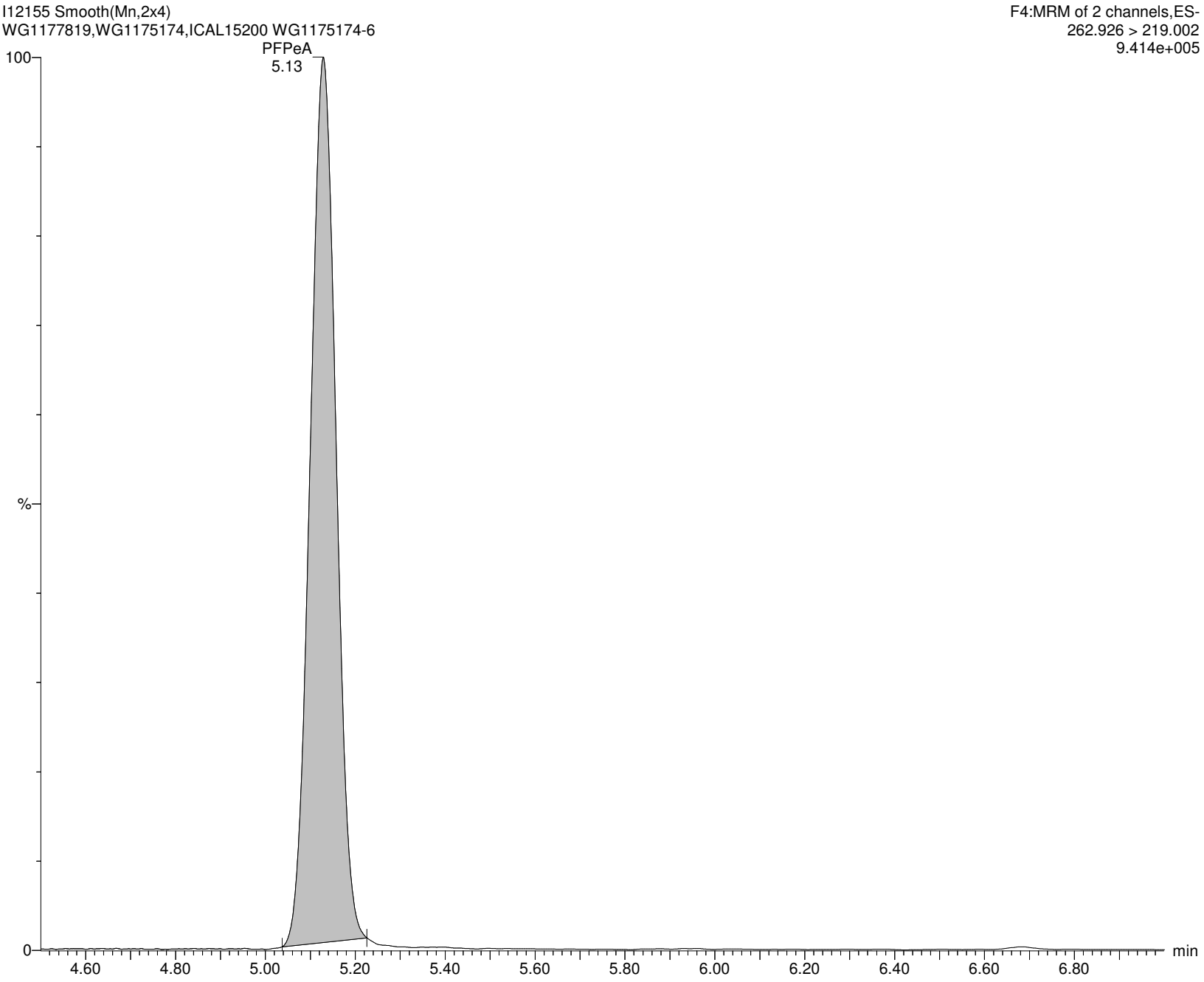
PFPeA



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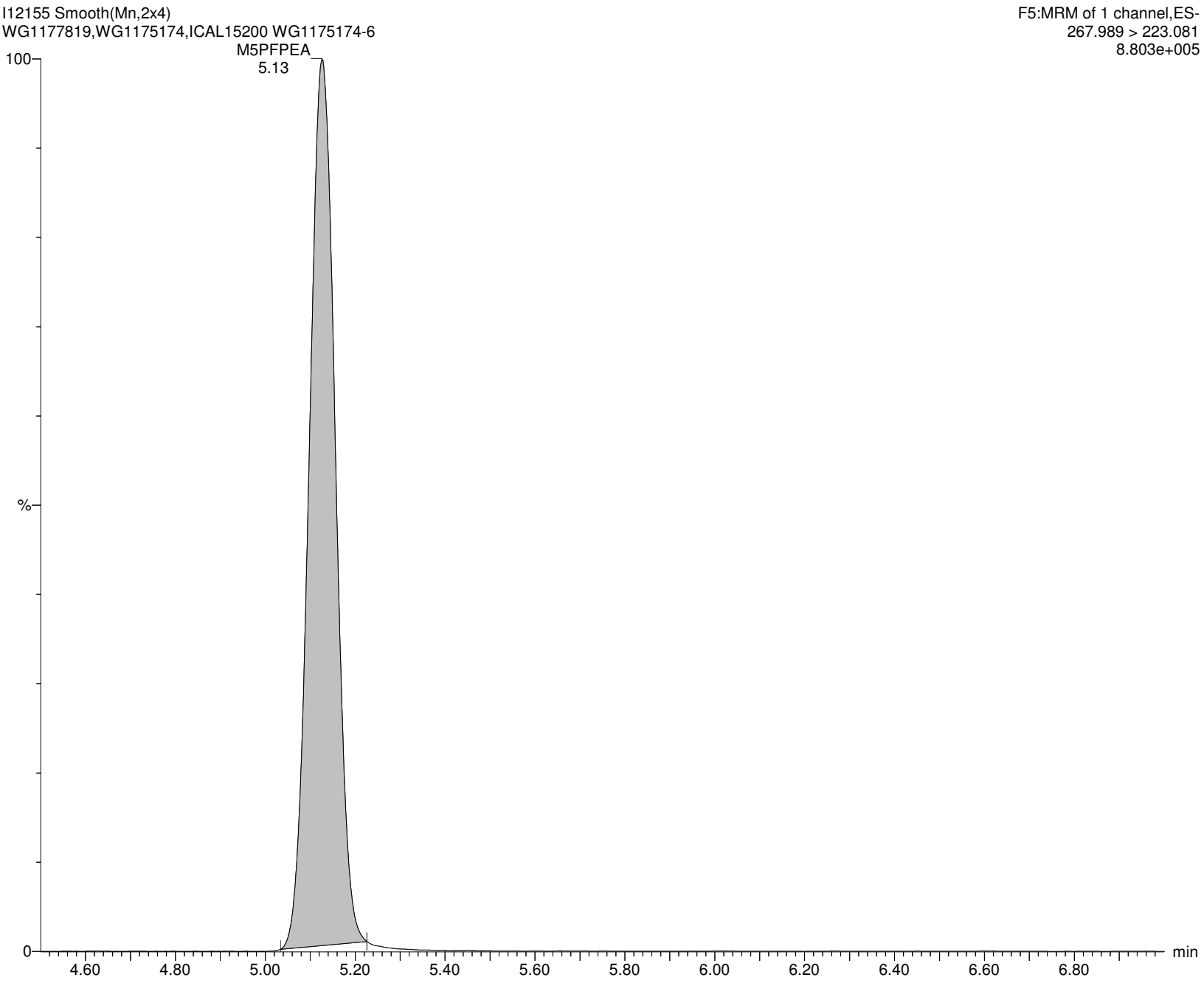
M5PFPEA



all concentration units in (ng/mL)

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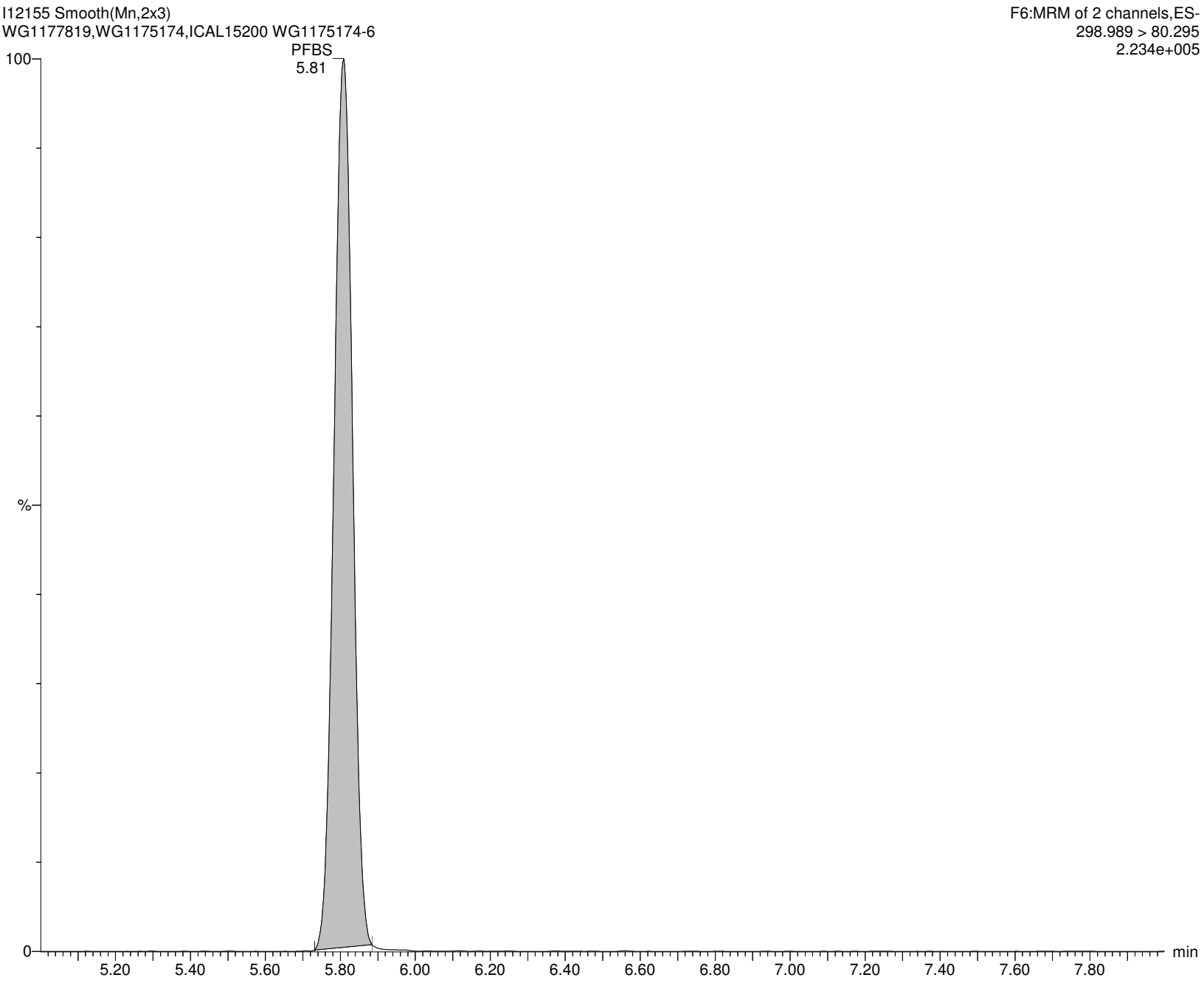
PFBS



all concentration units in (ng/mL)

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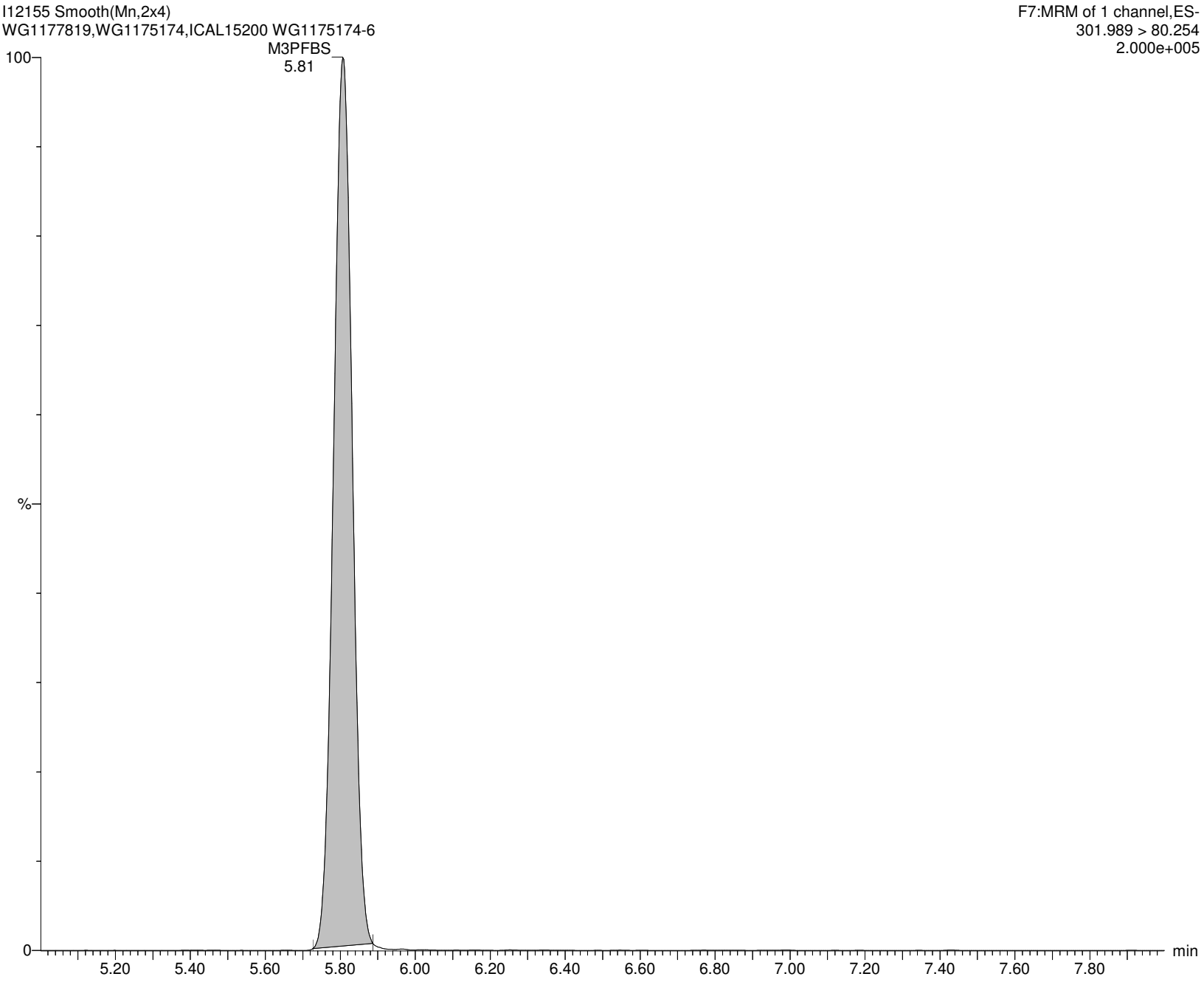
M3PFBS



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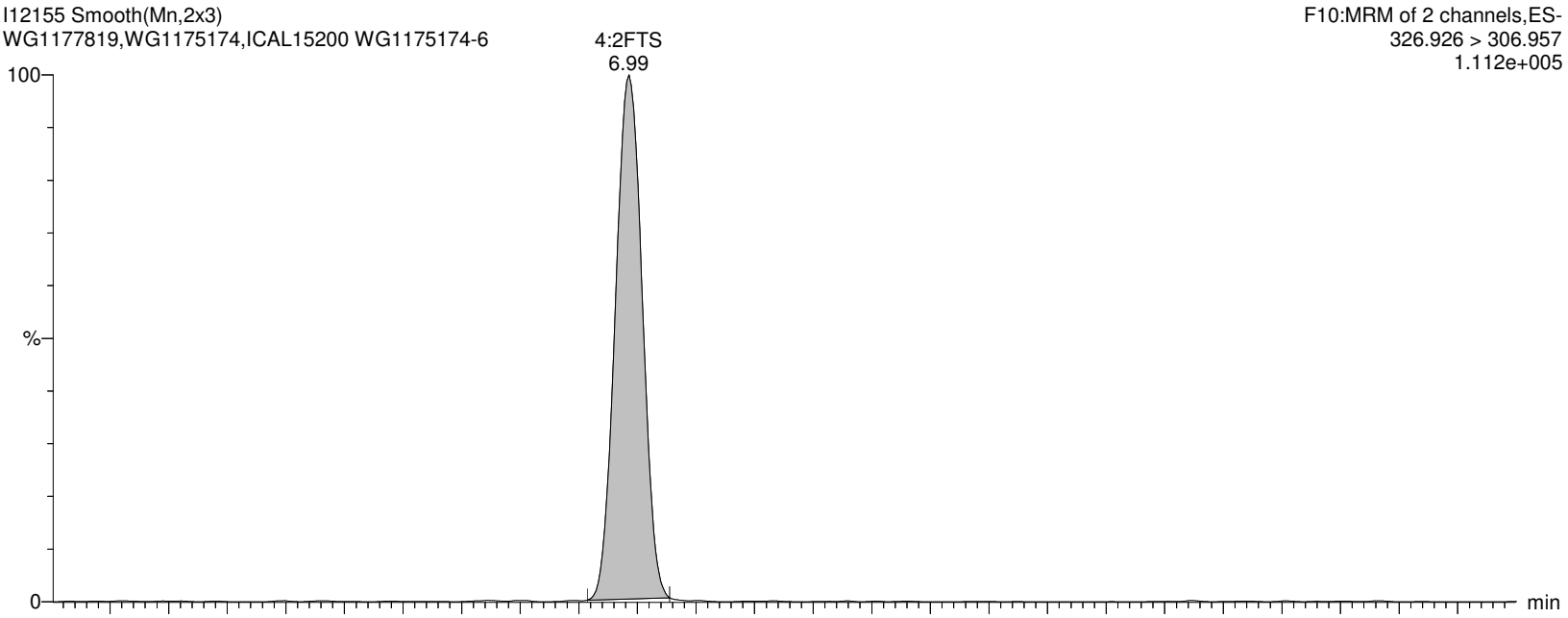
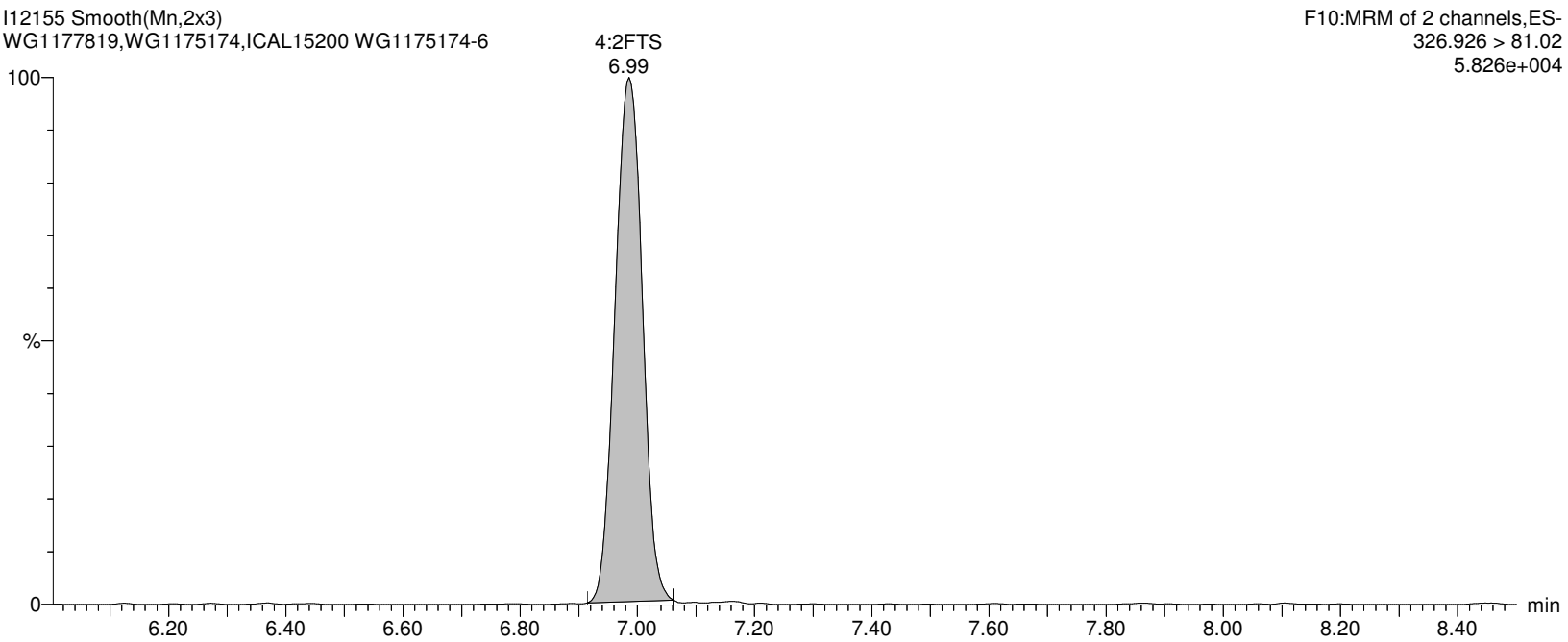
4:2FTS





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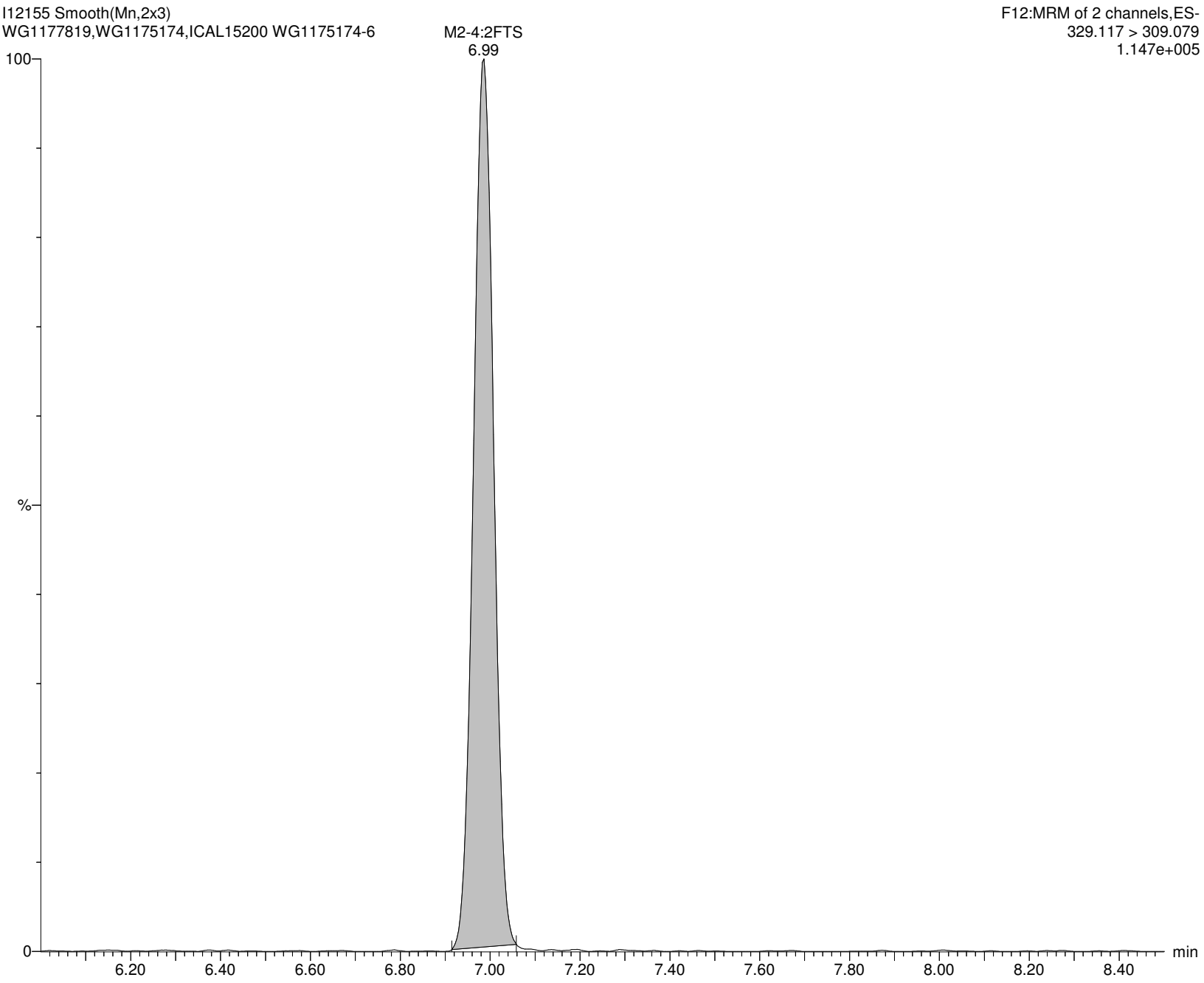
M2-4:2FTS



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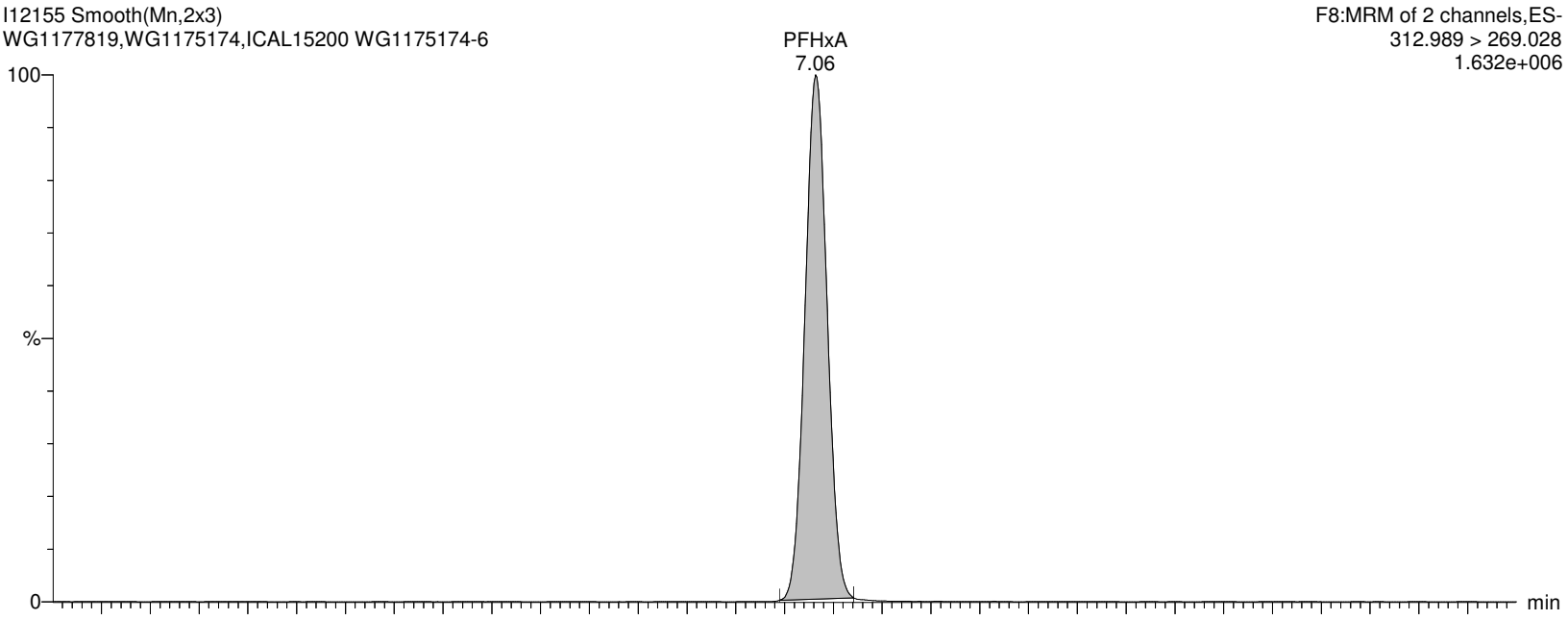
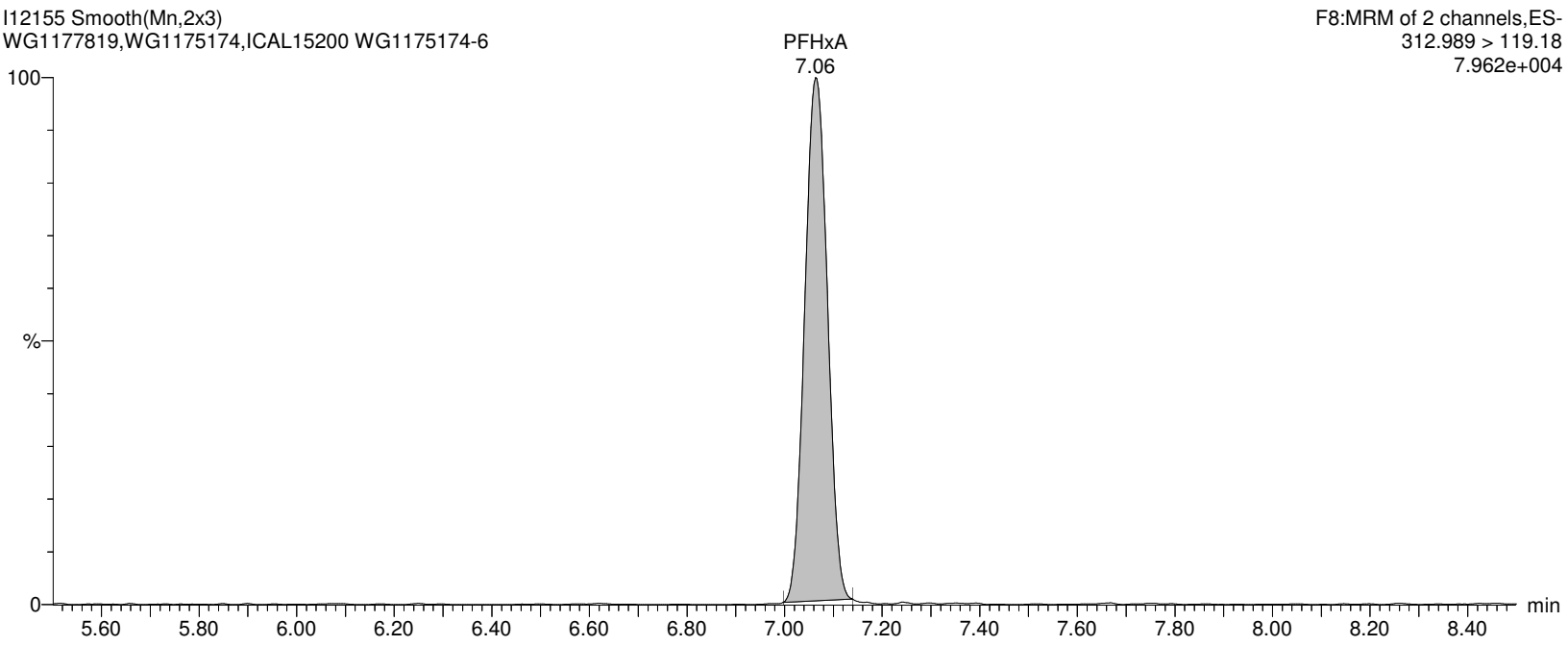
PFHxA





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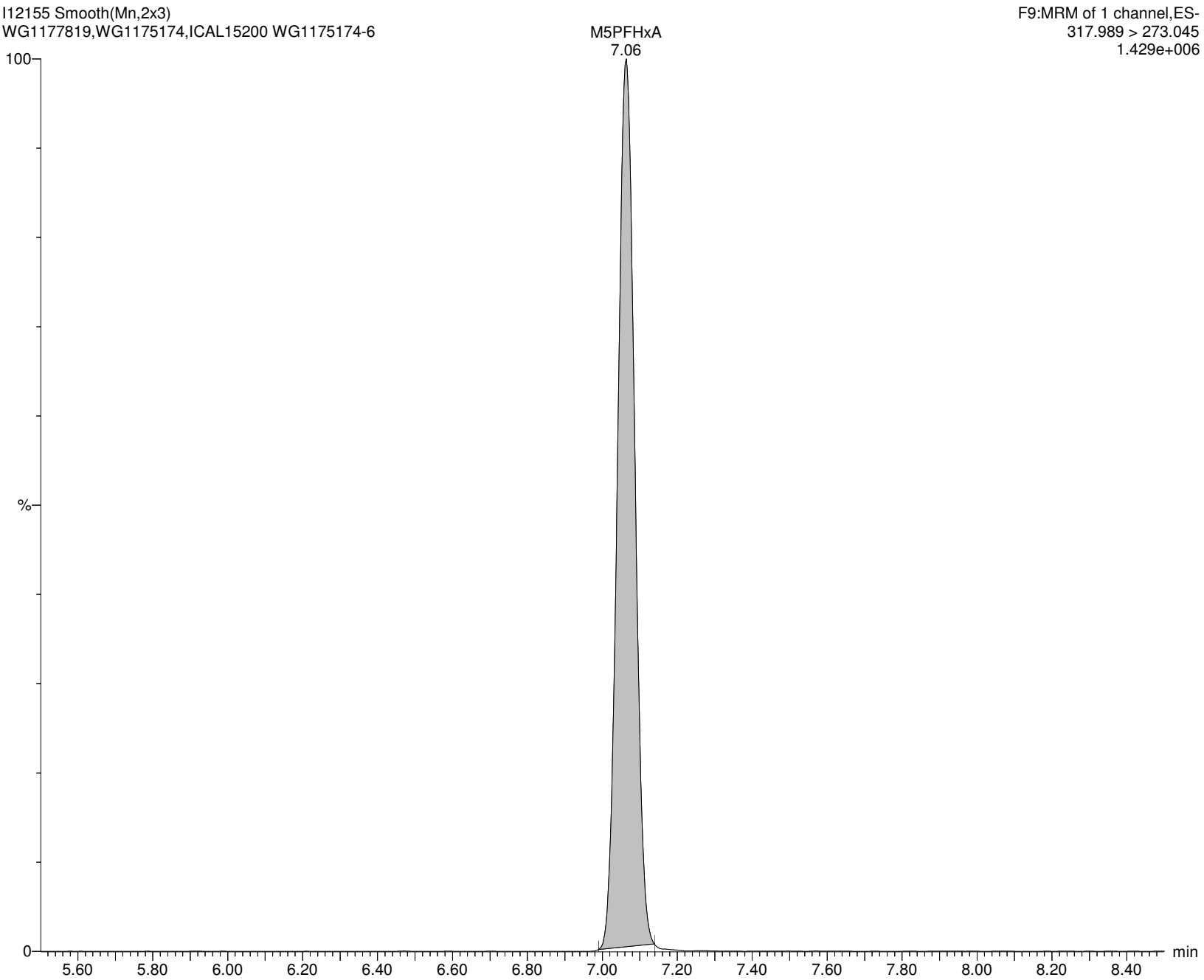
M5PFHxA



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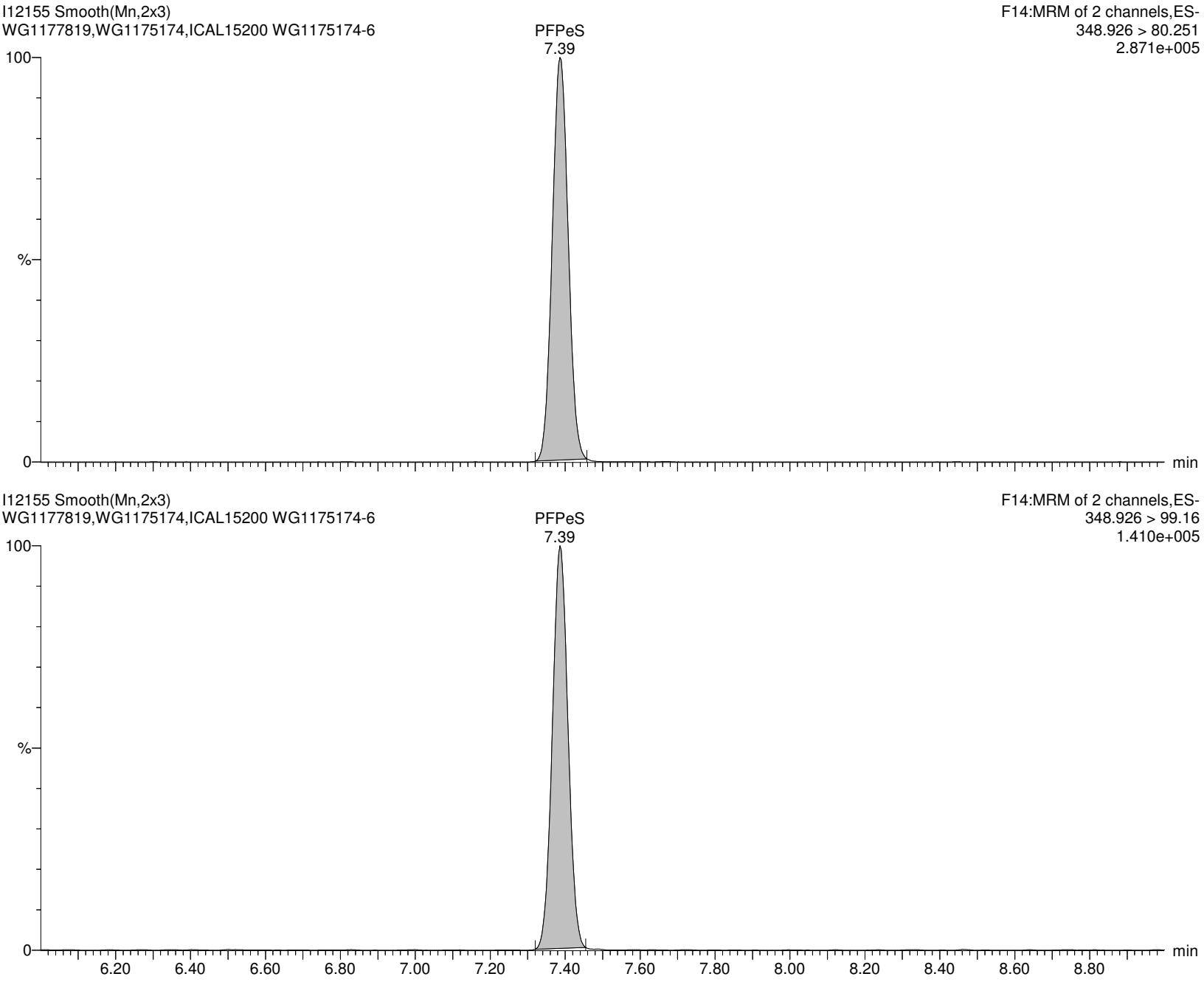
PFPeS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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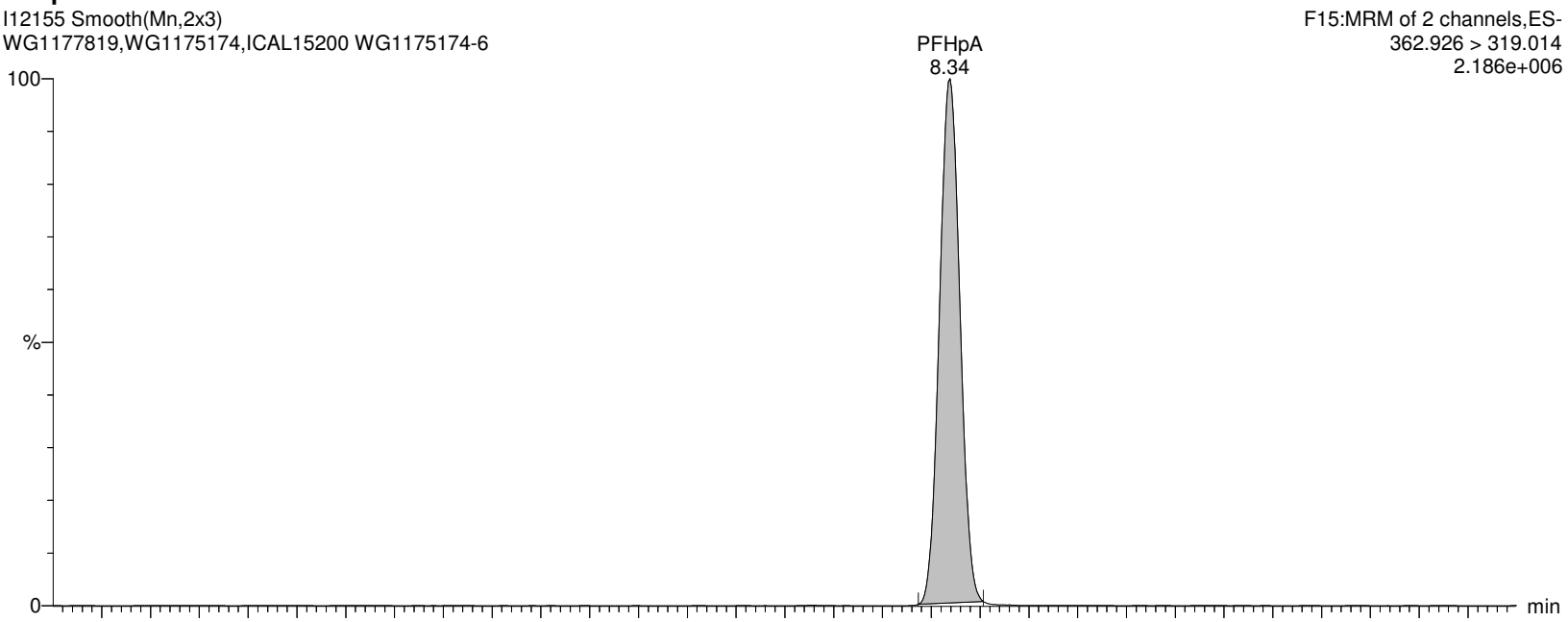

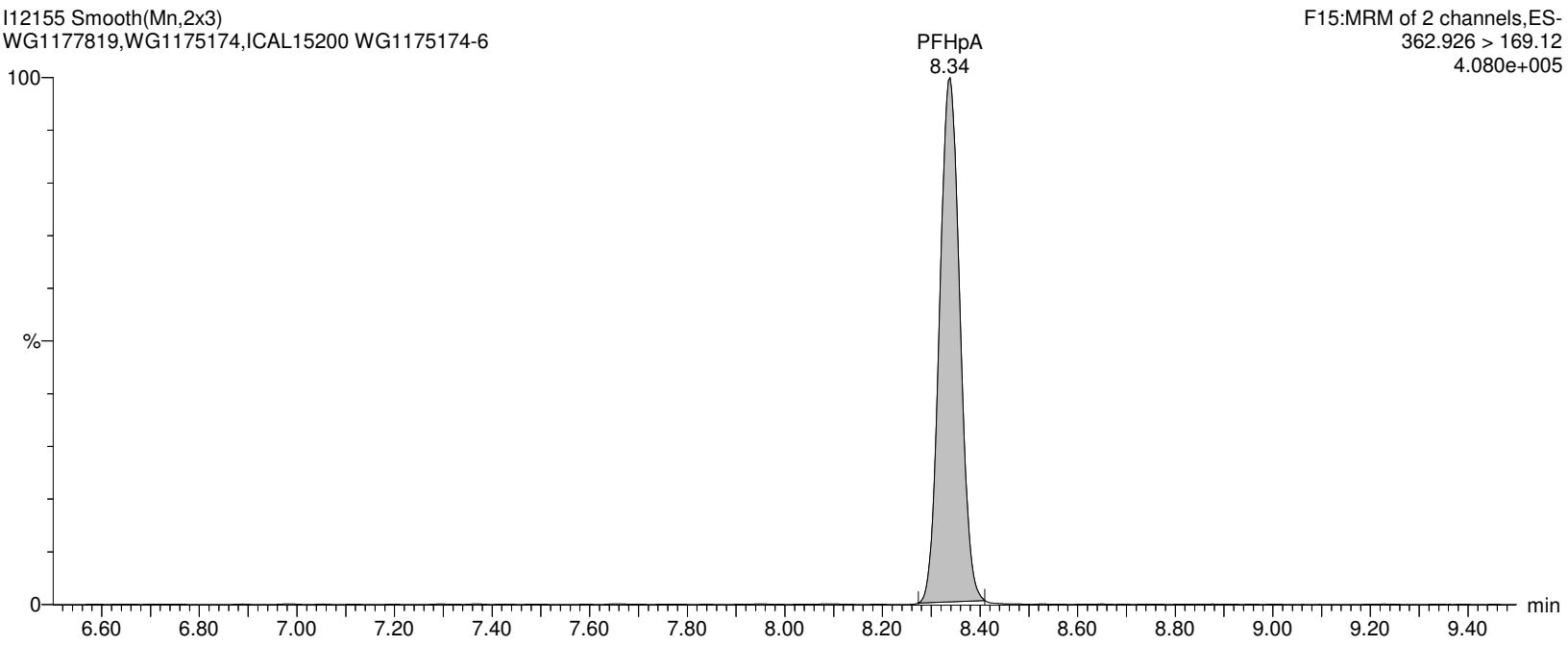

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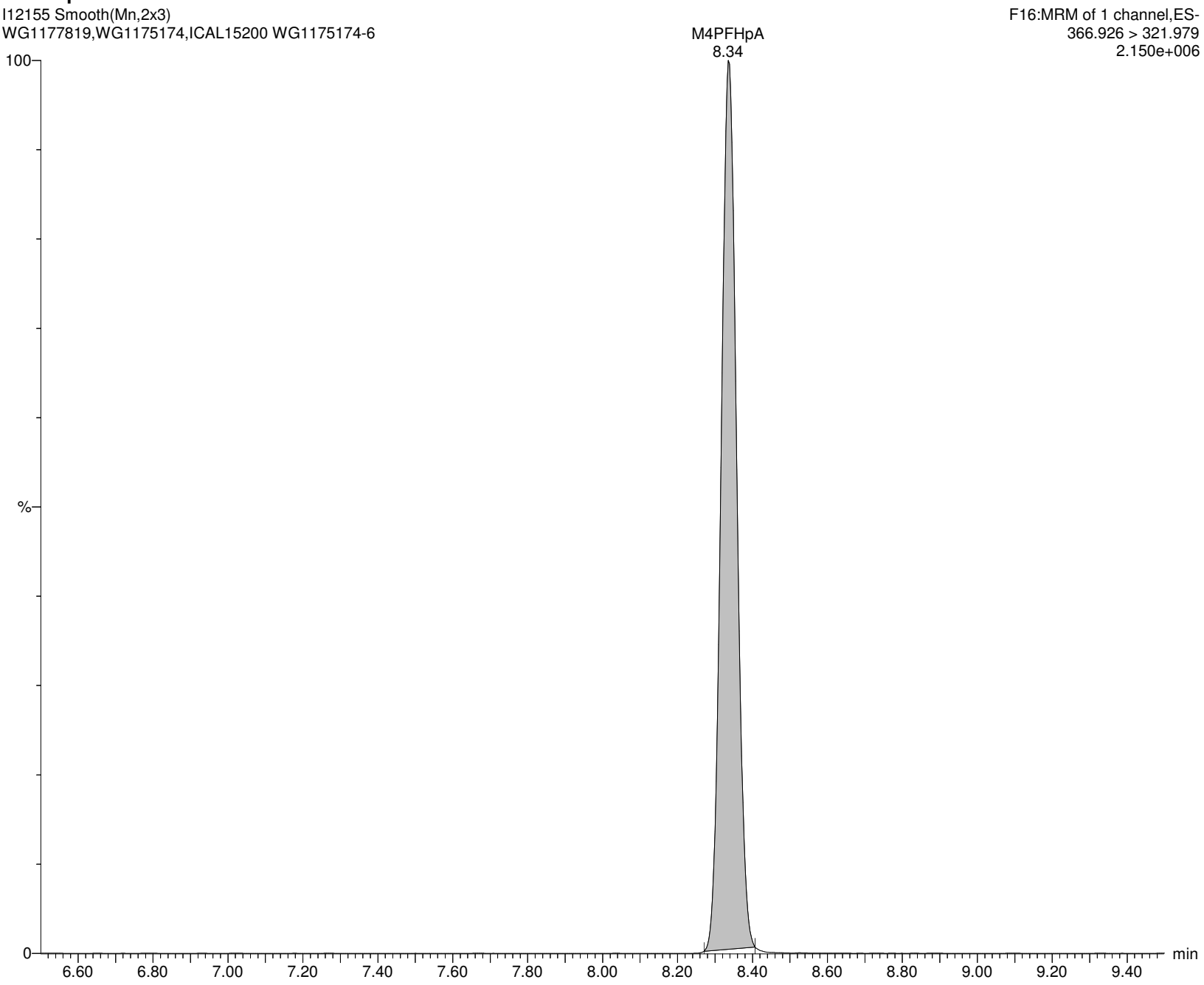

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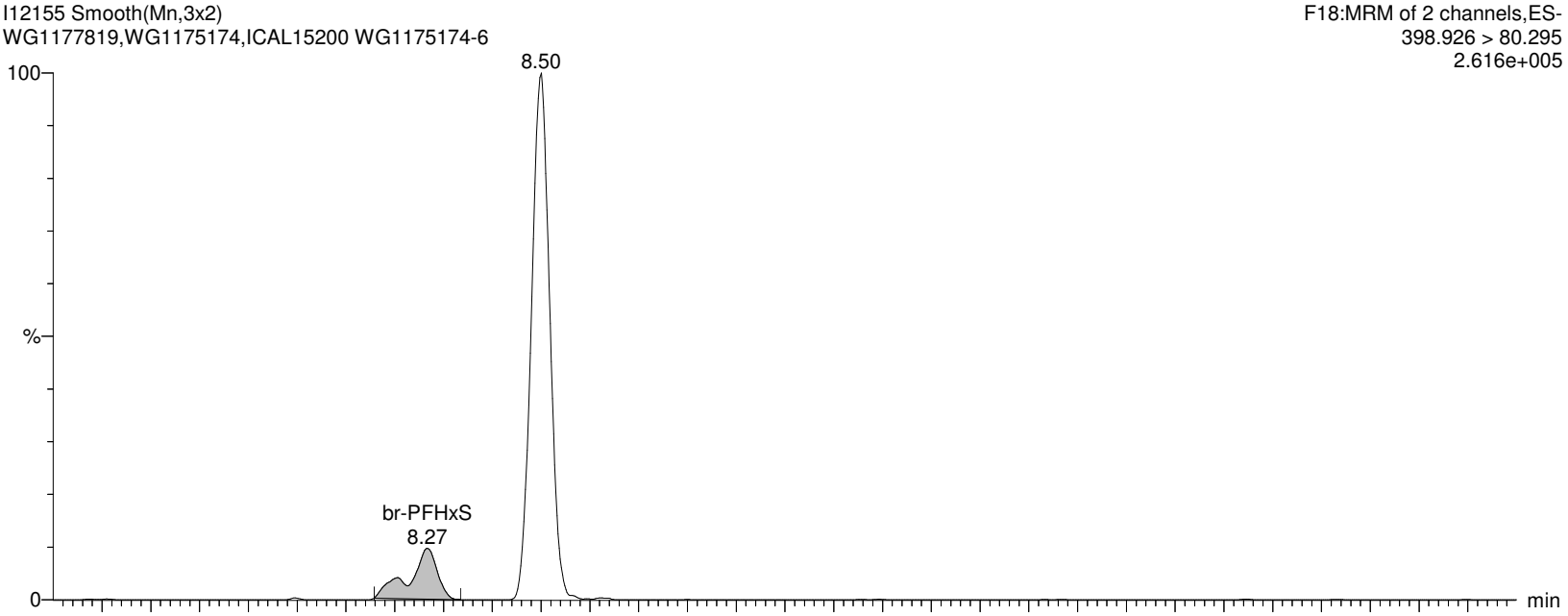

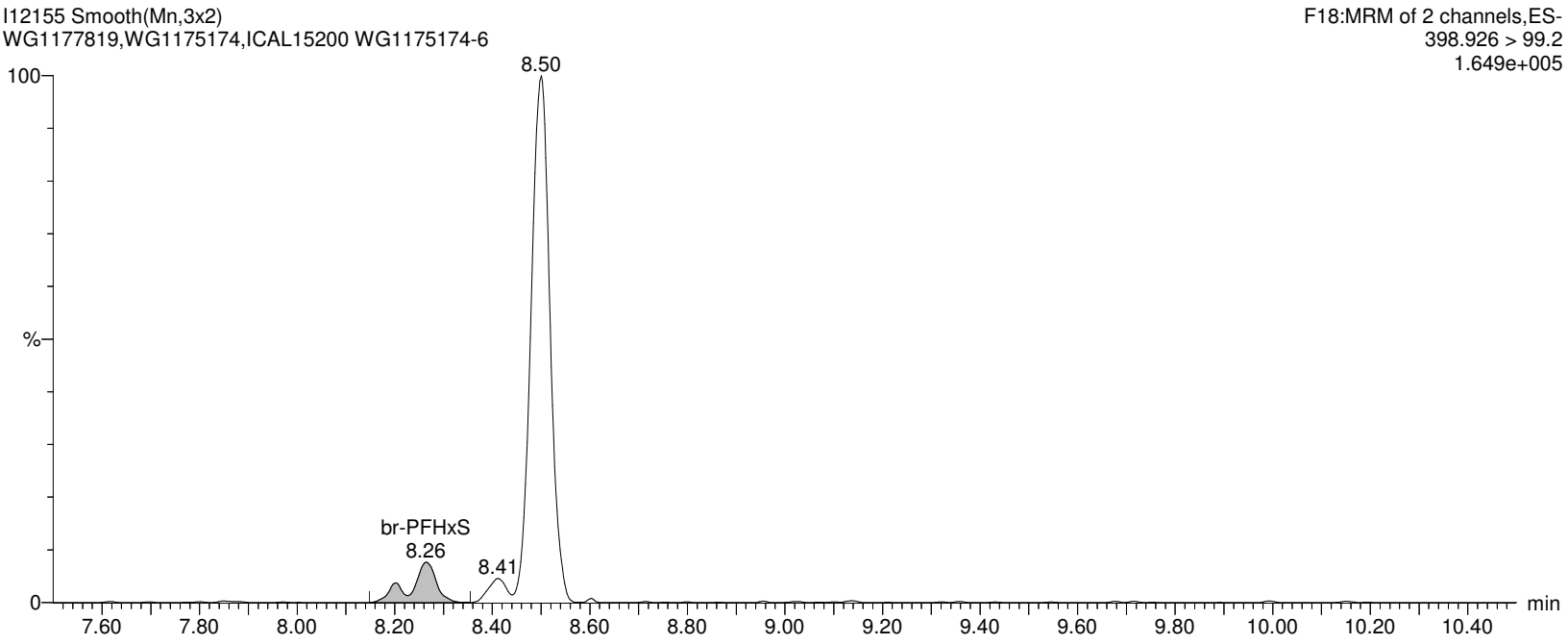

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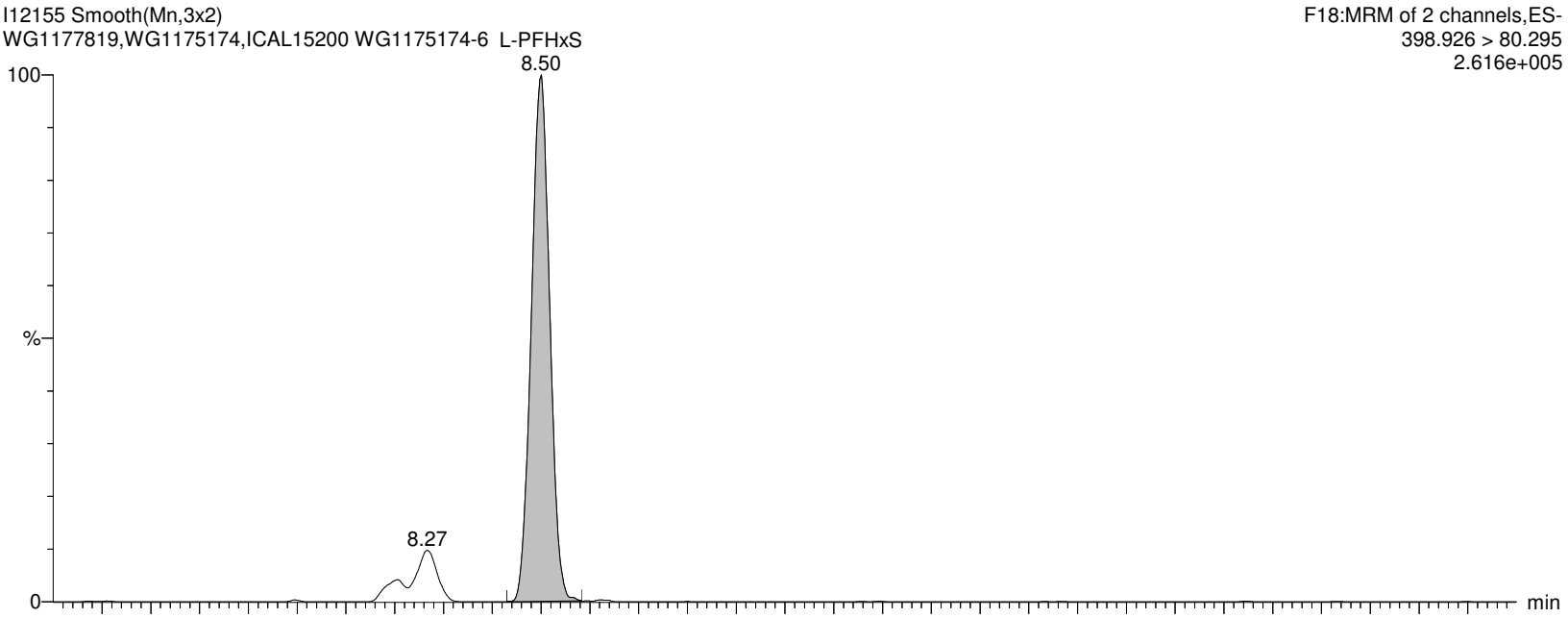

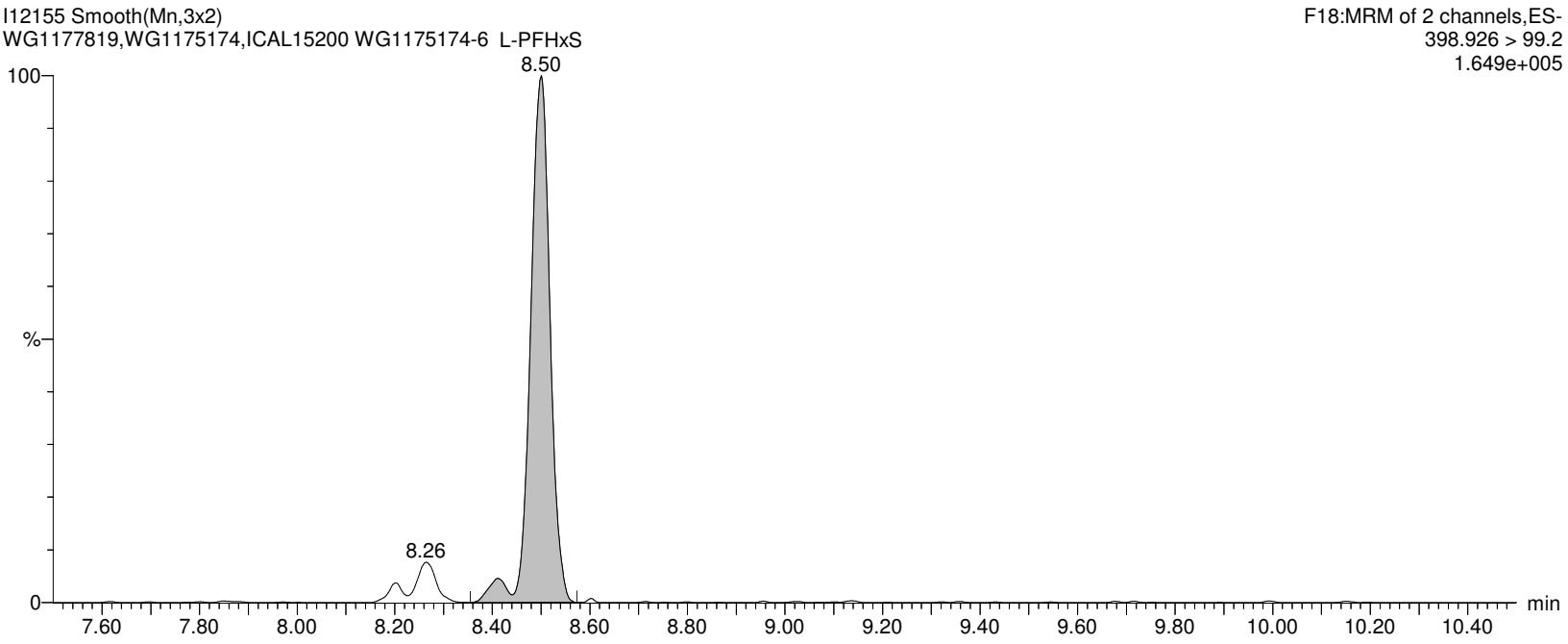

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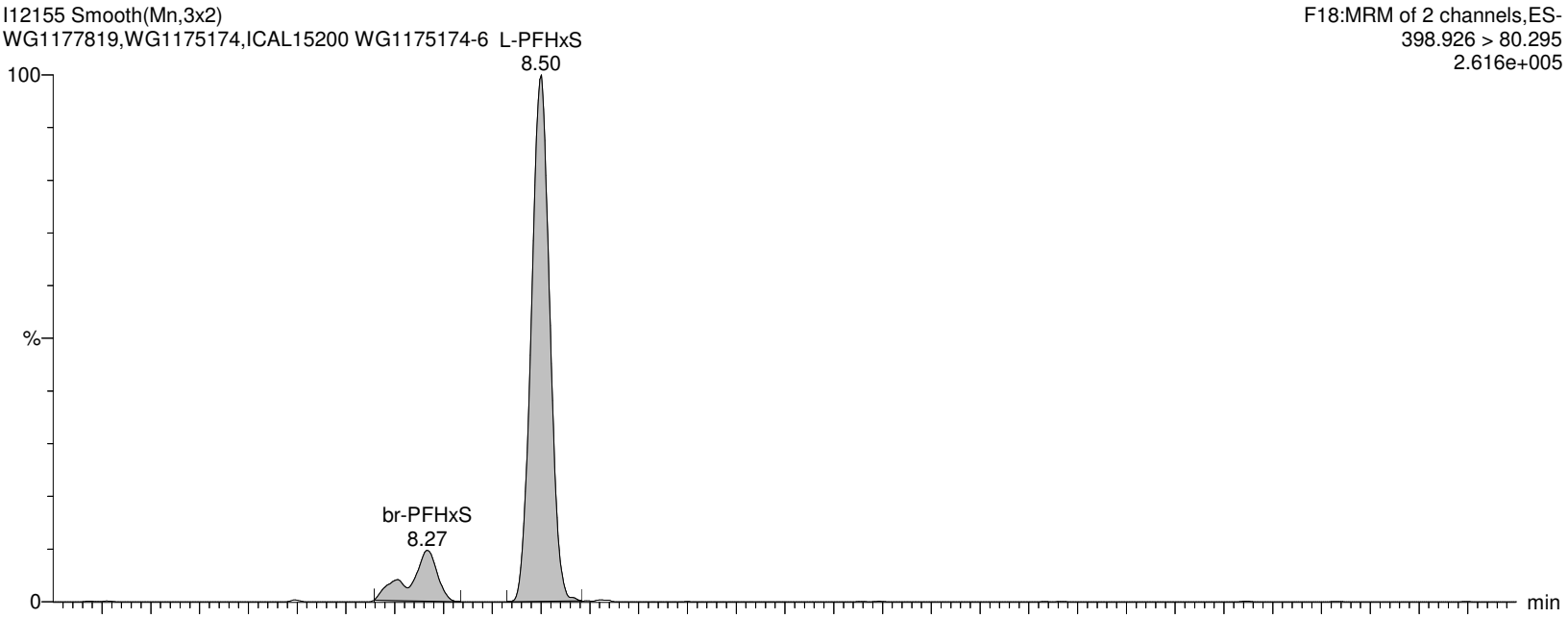

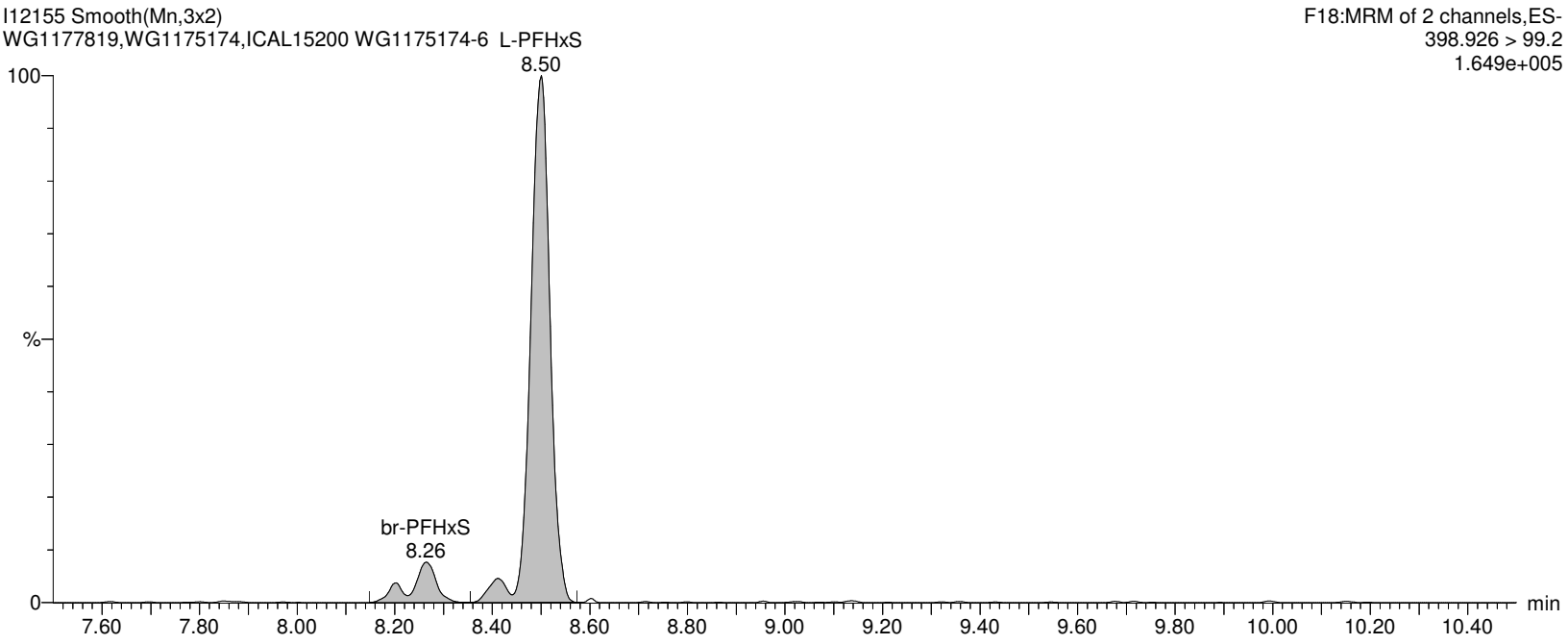

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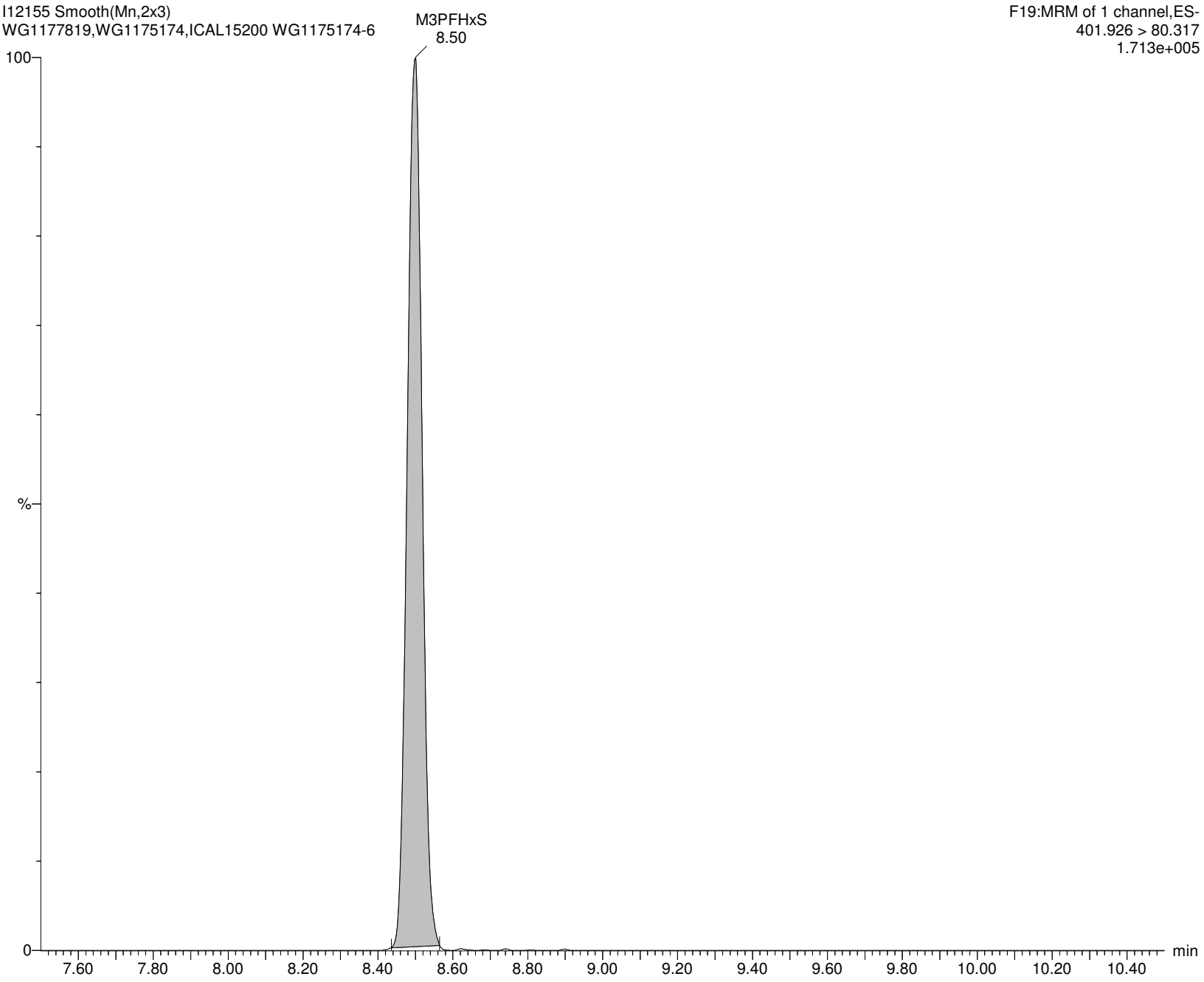

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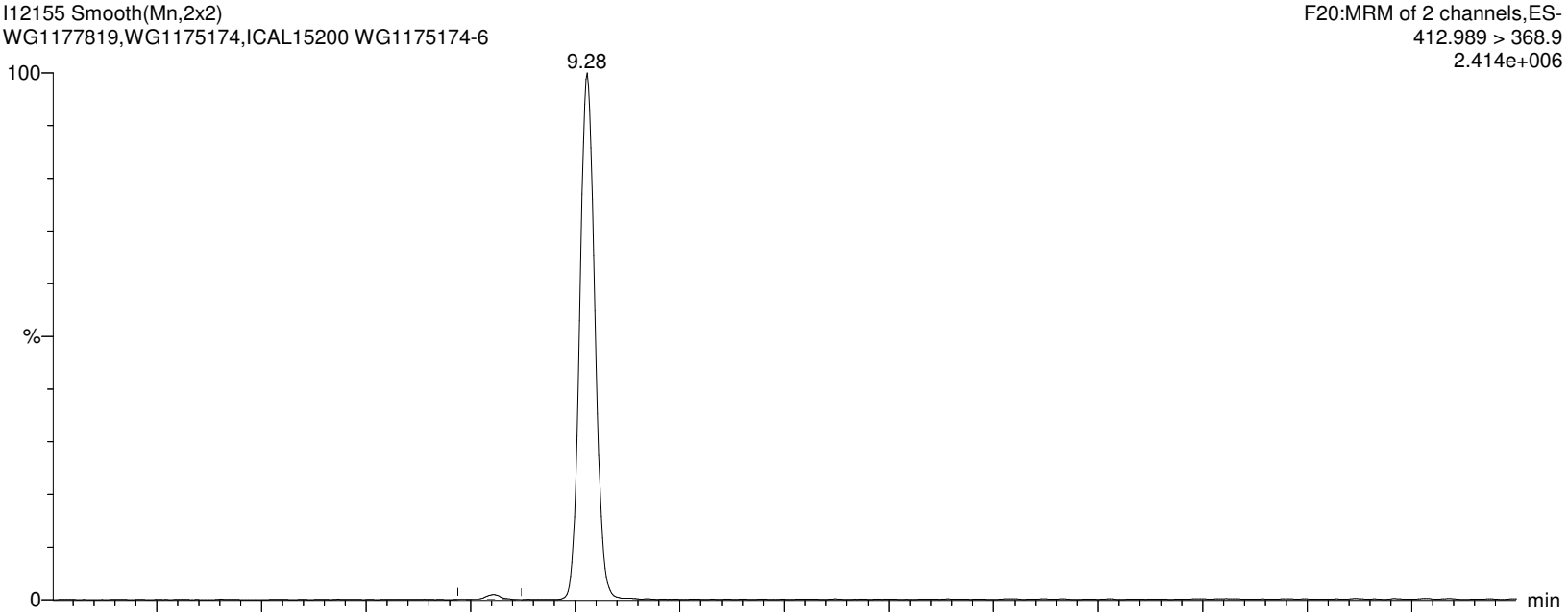

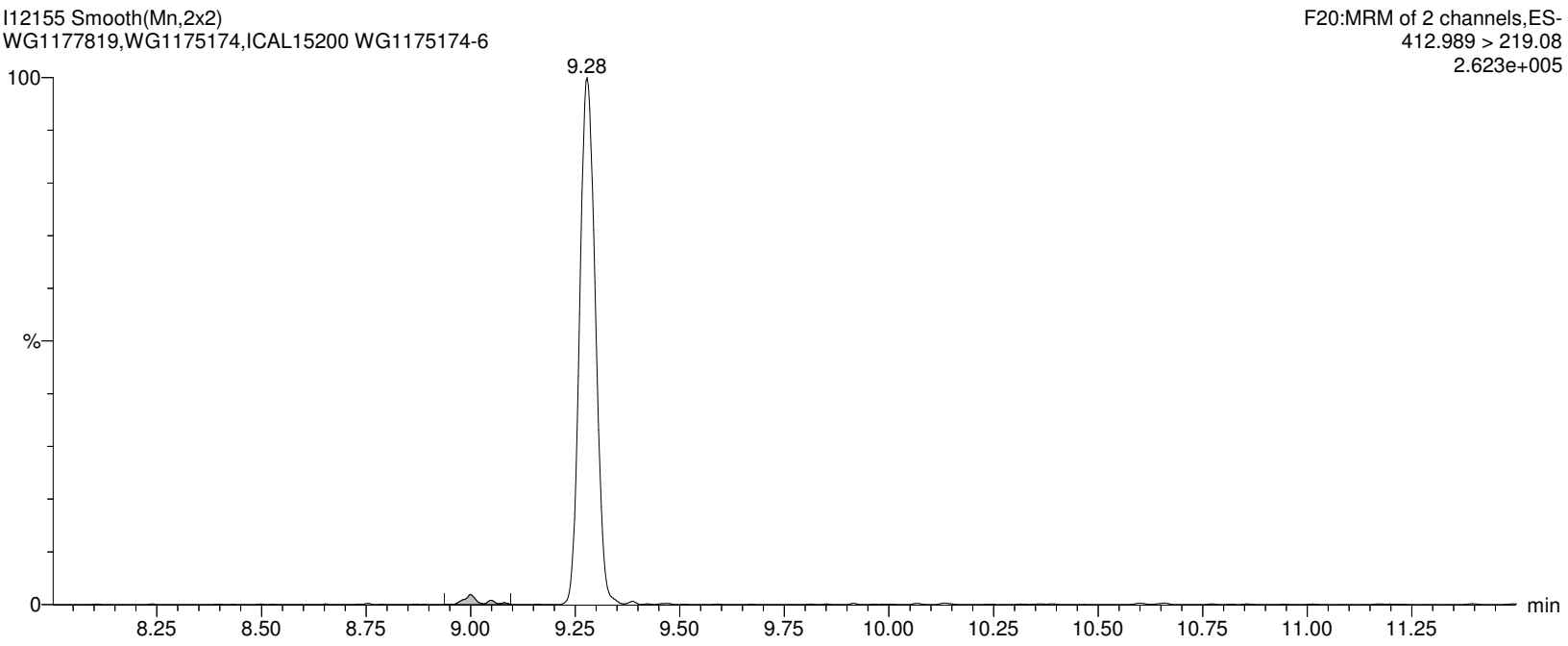

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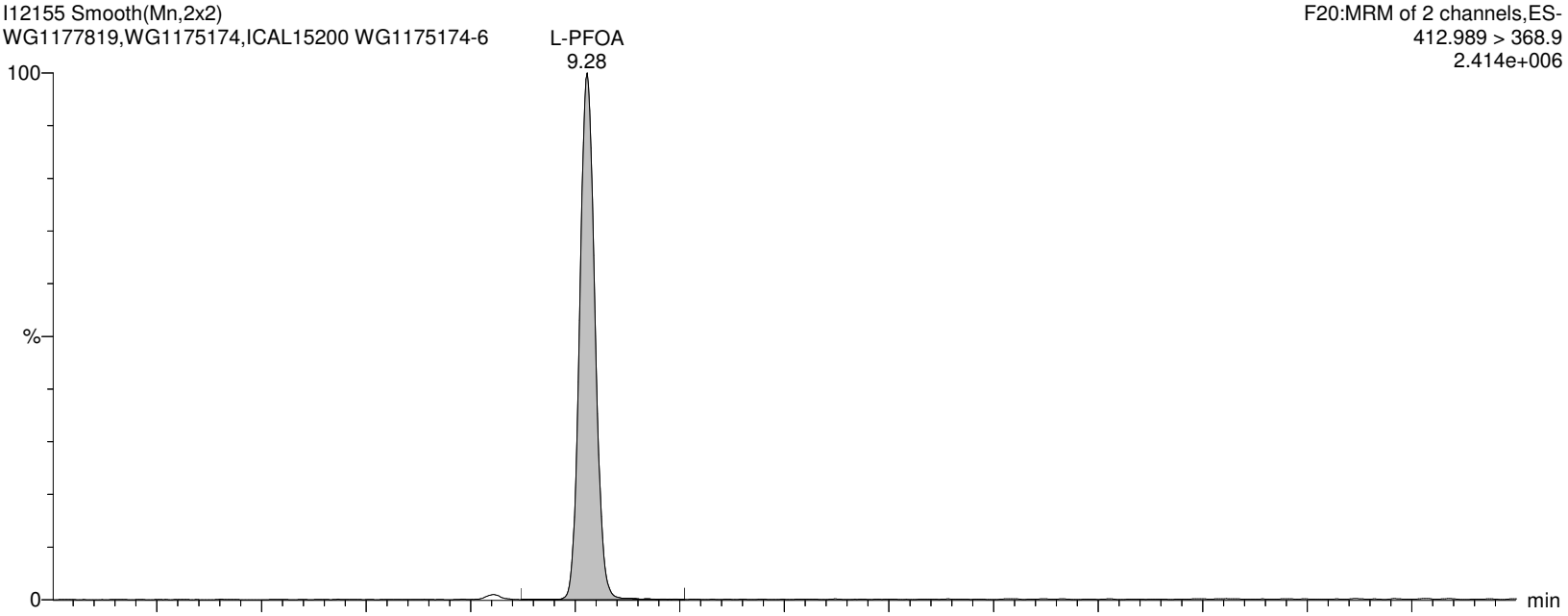

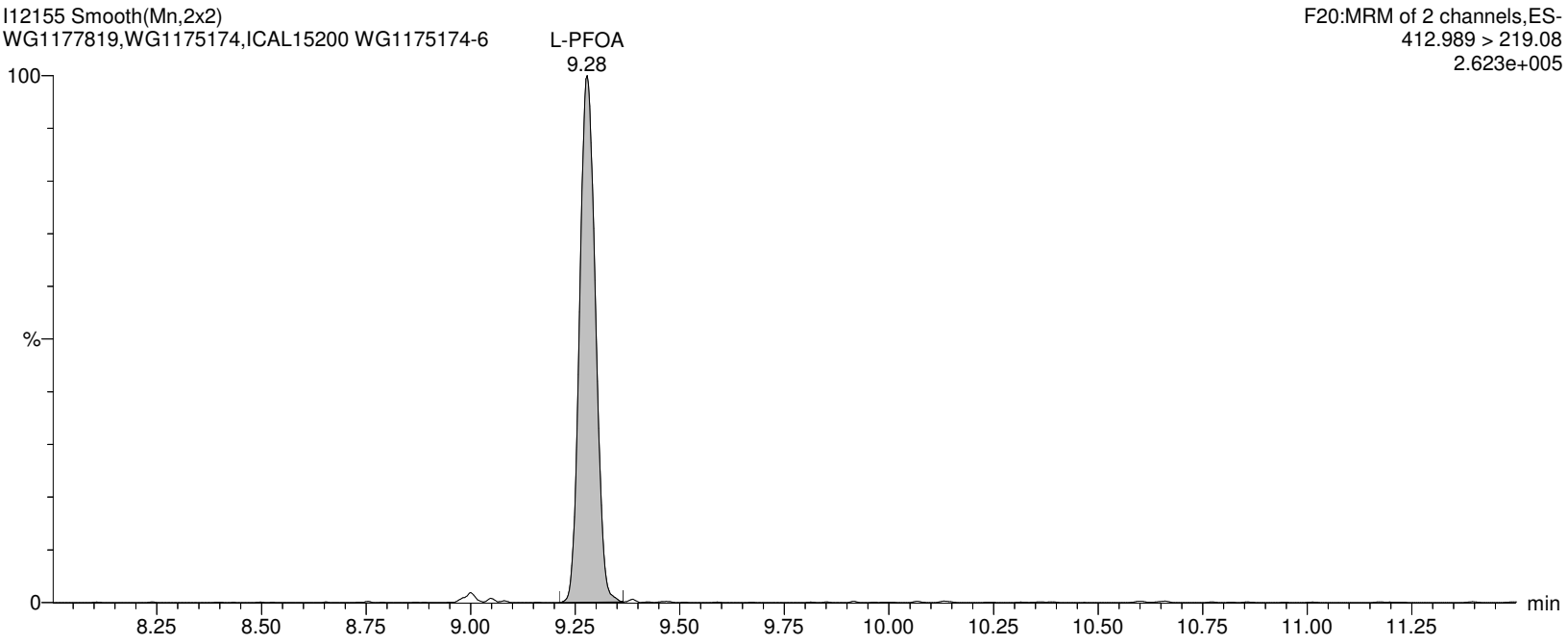

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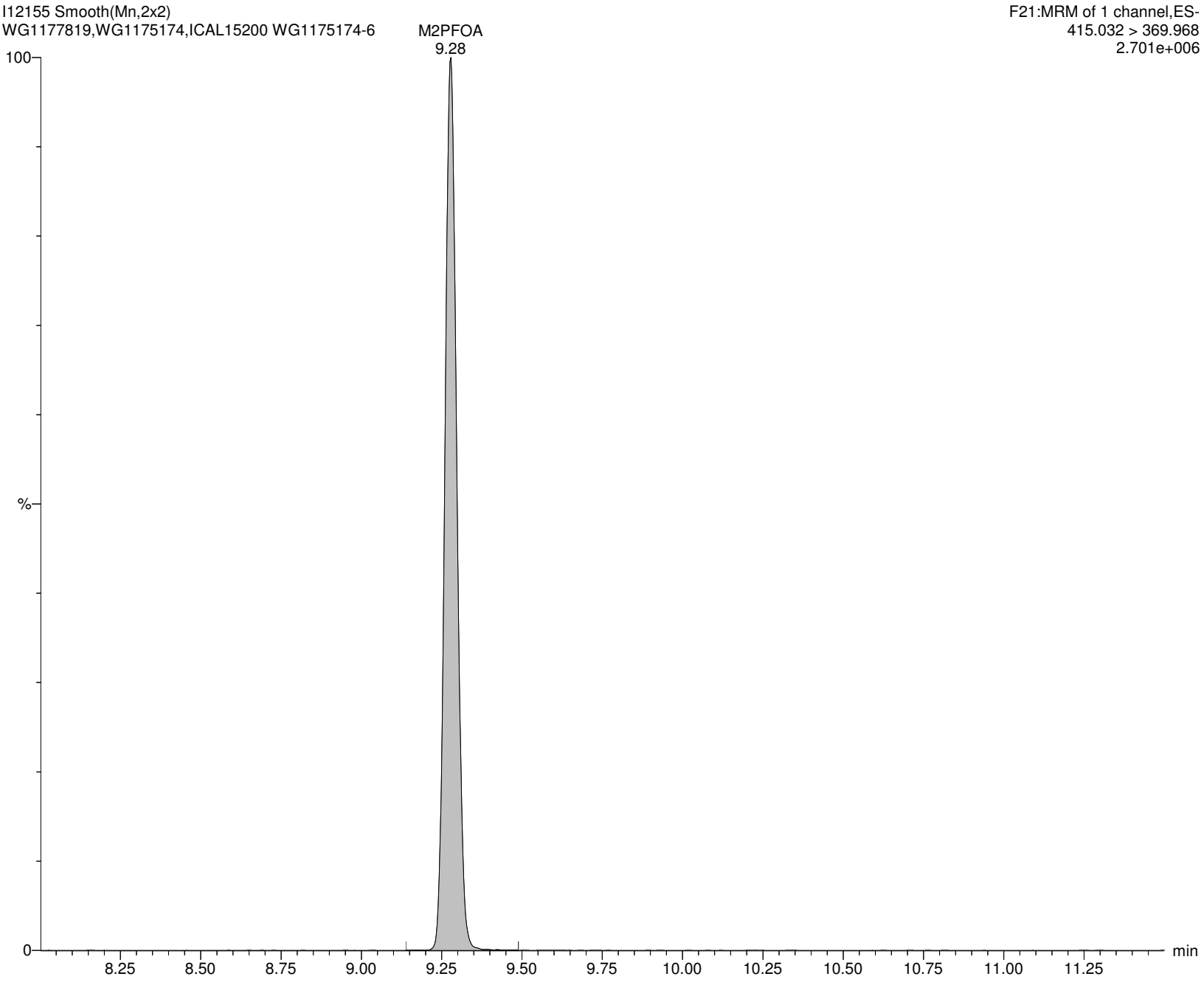

all concentration units in (ng/mL)

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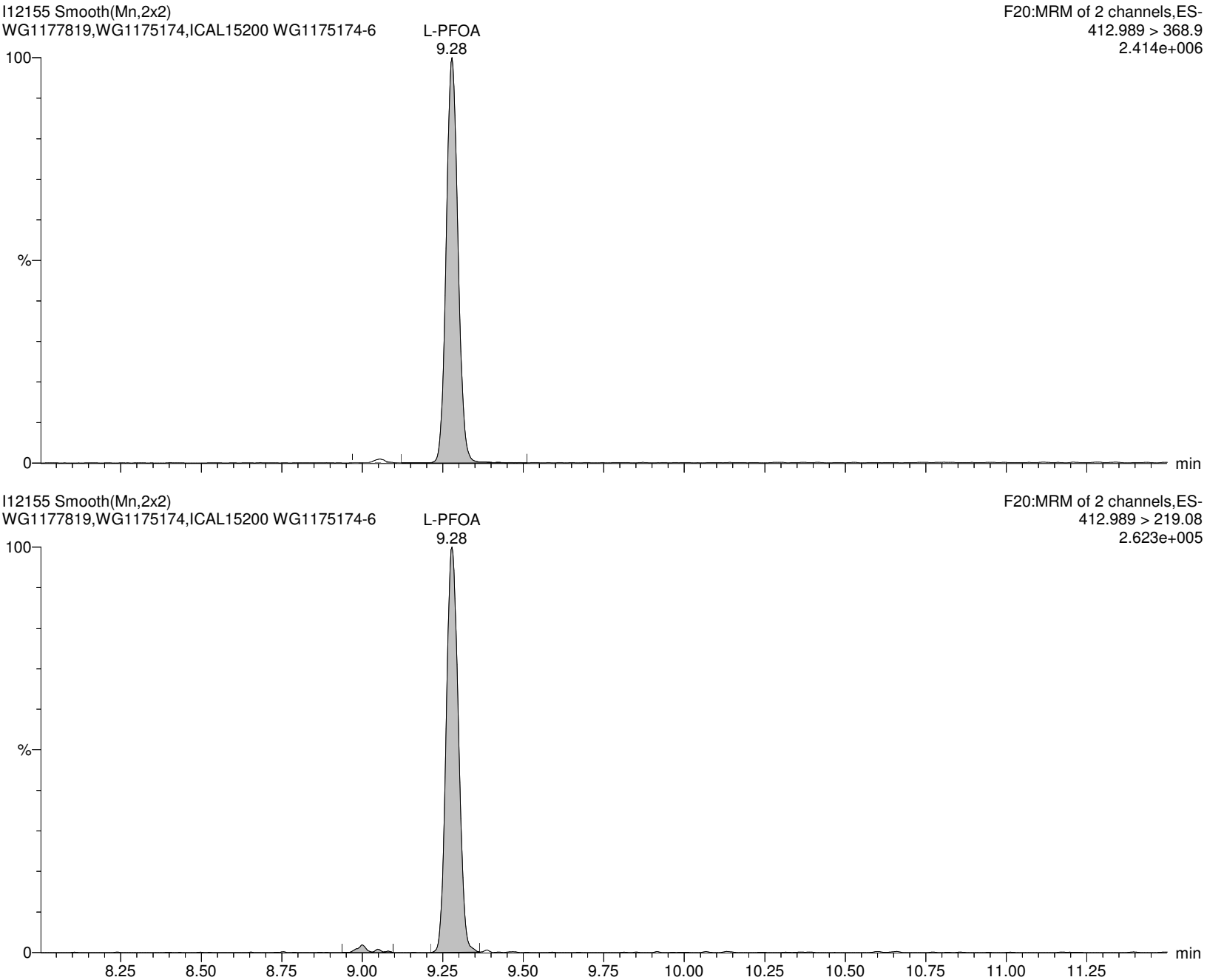

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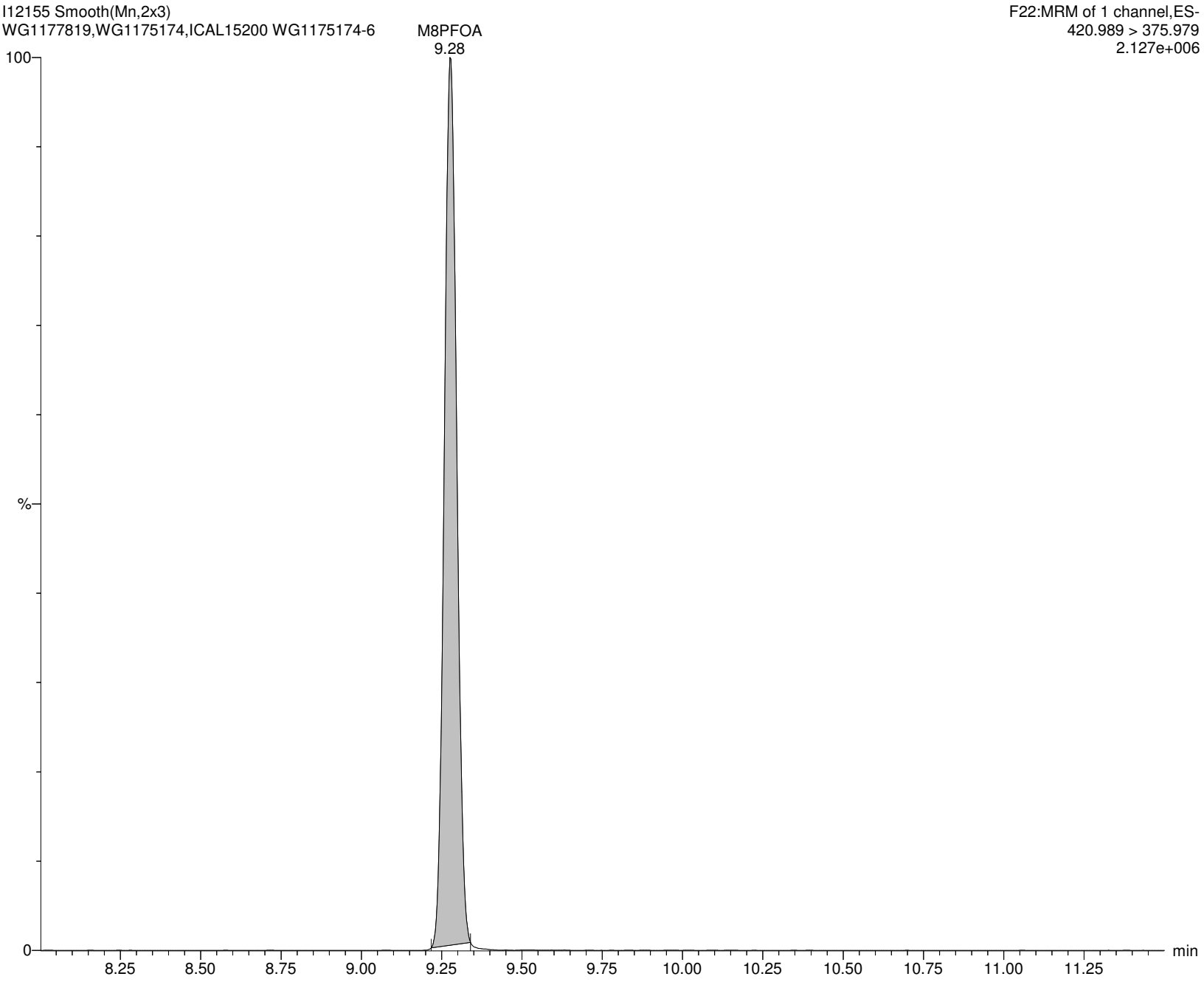

all concentration units in (ng/mL)

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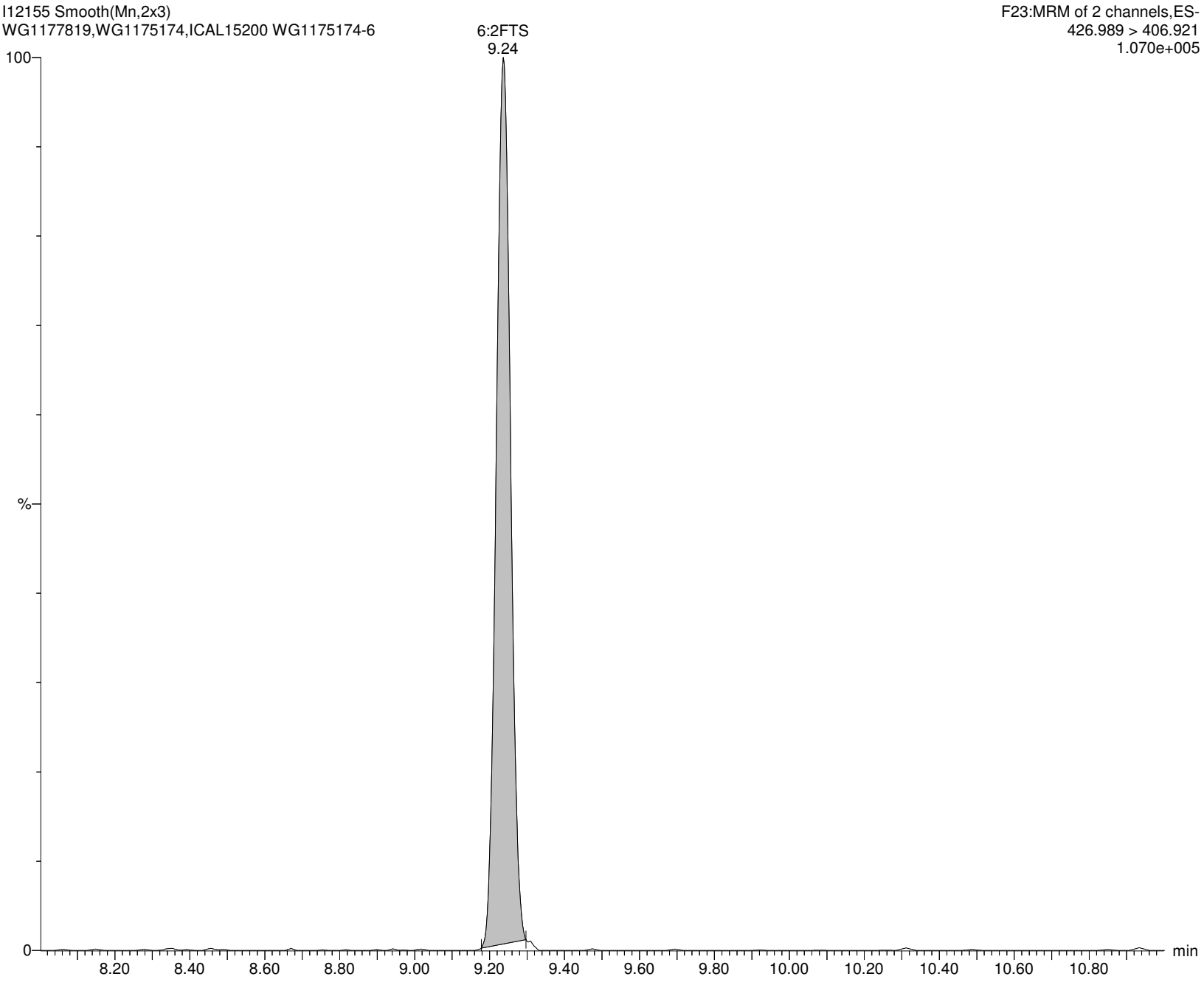

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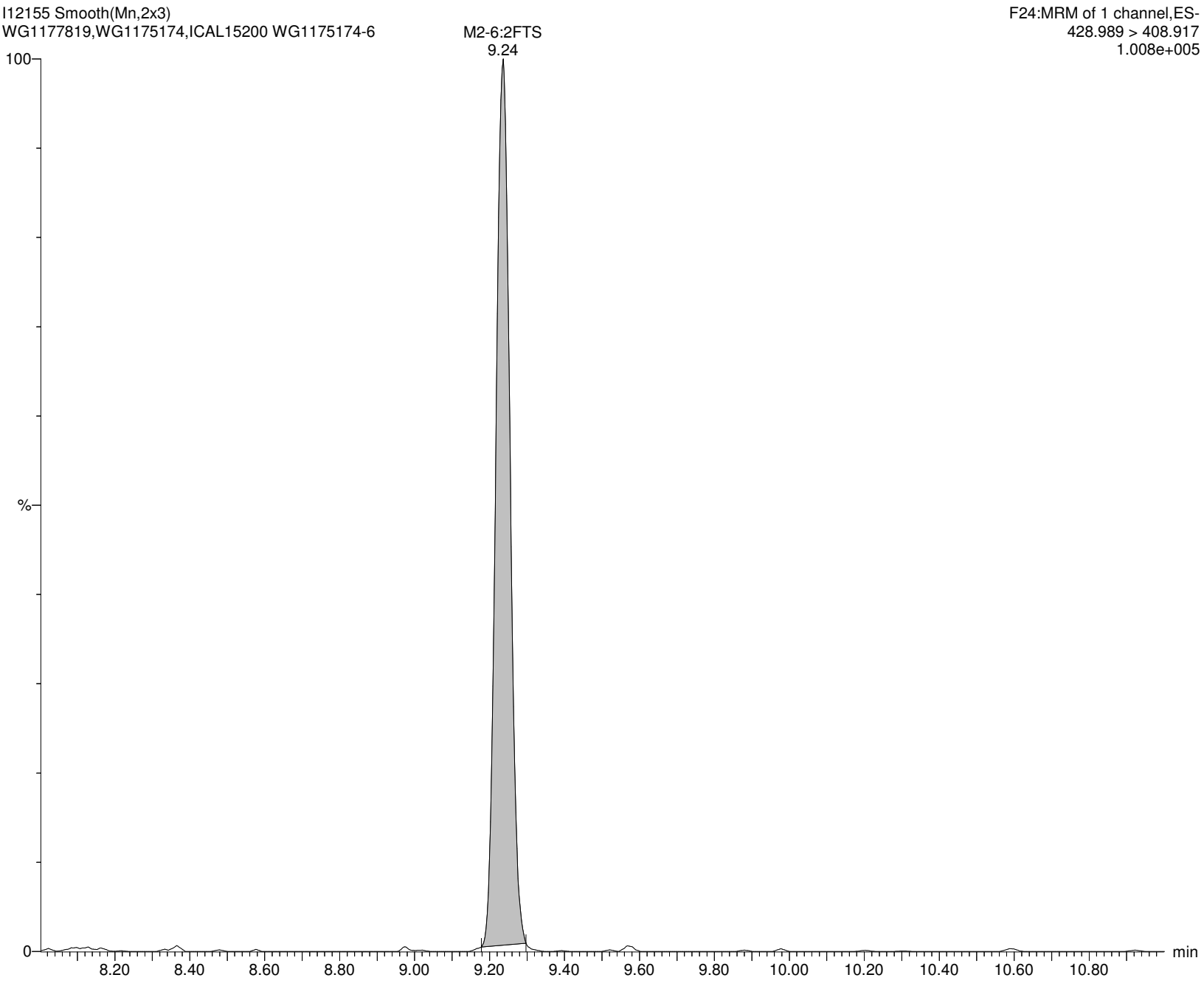

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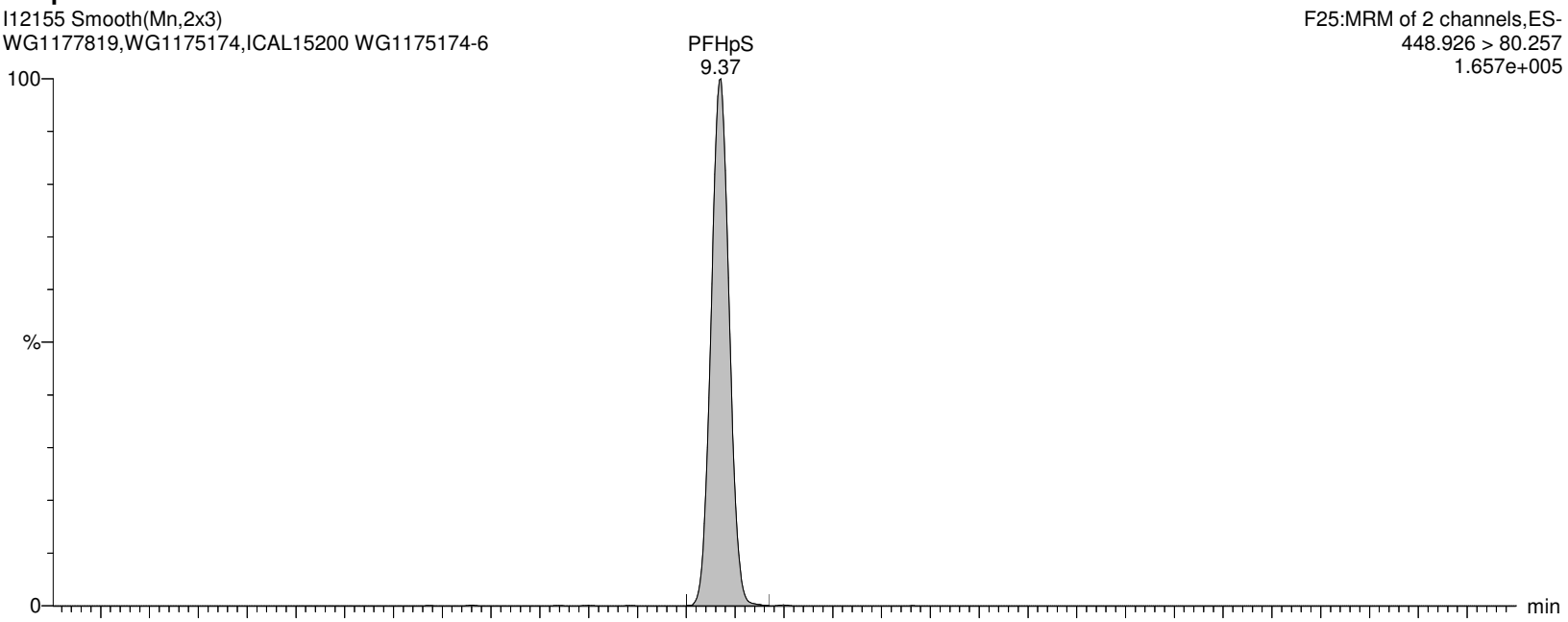

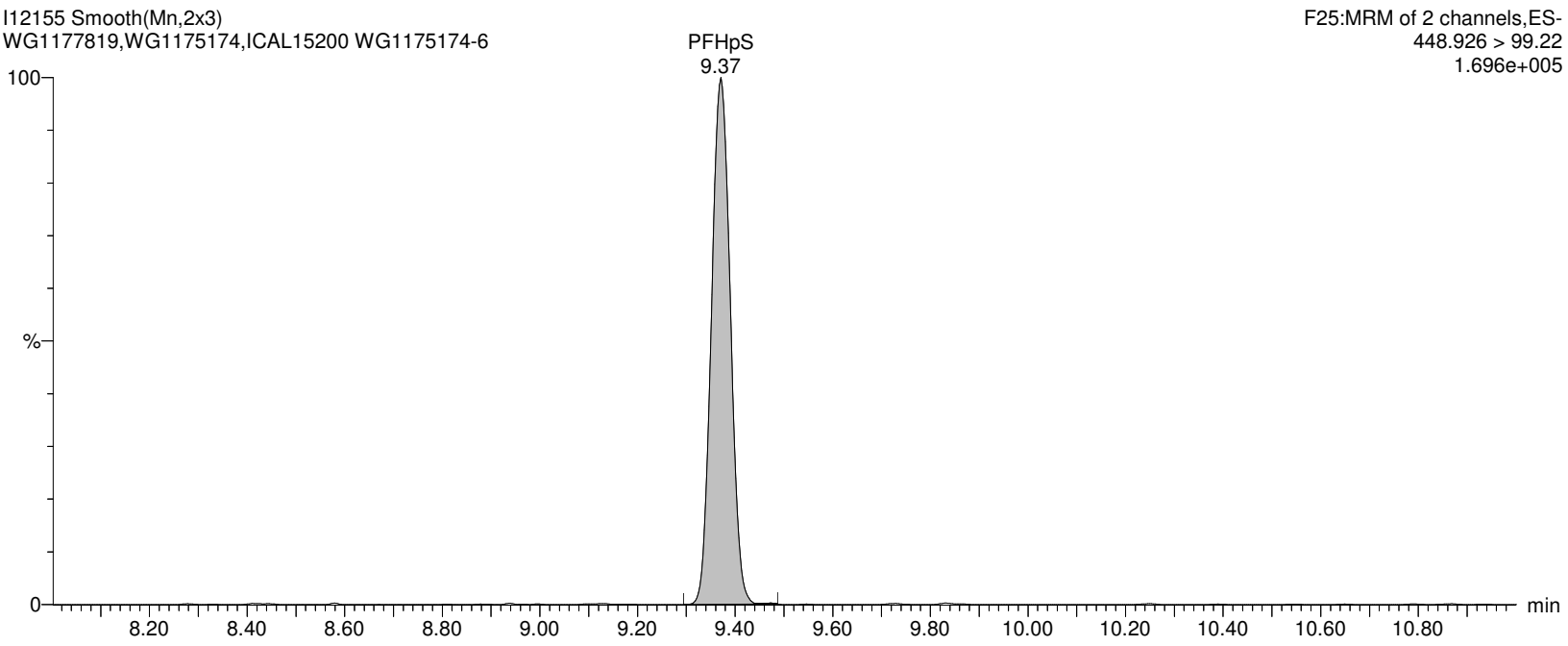

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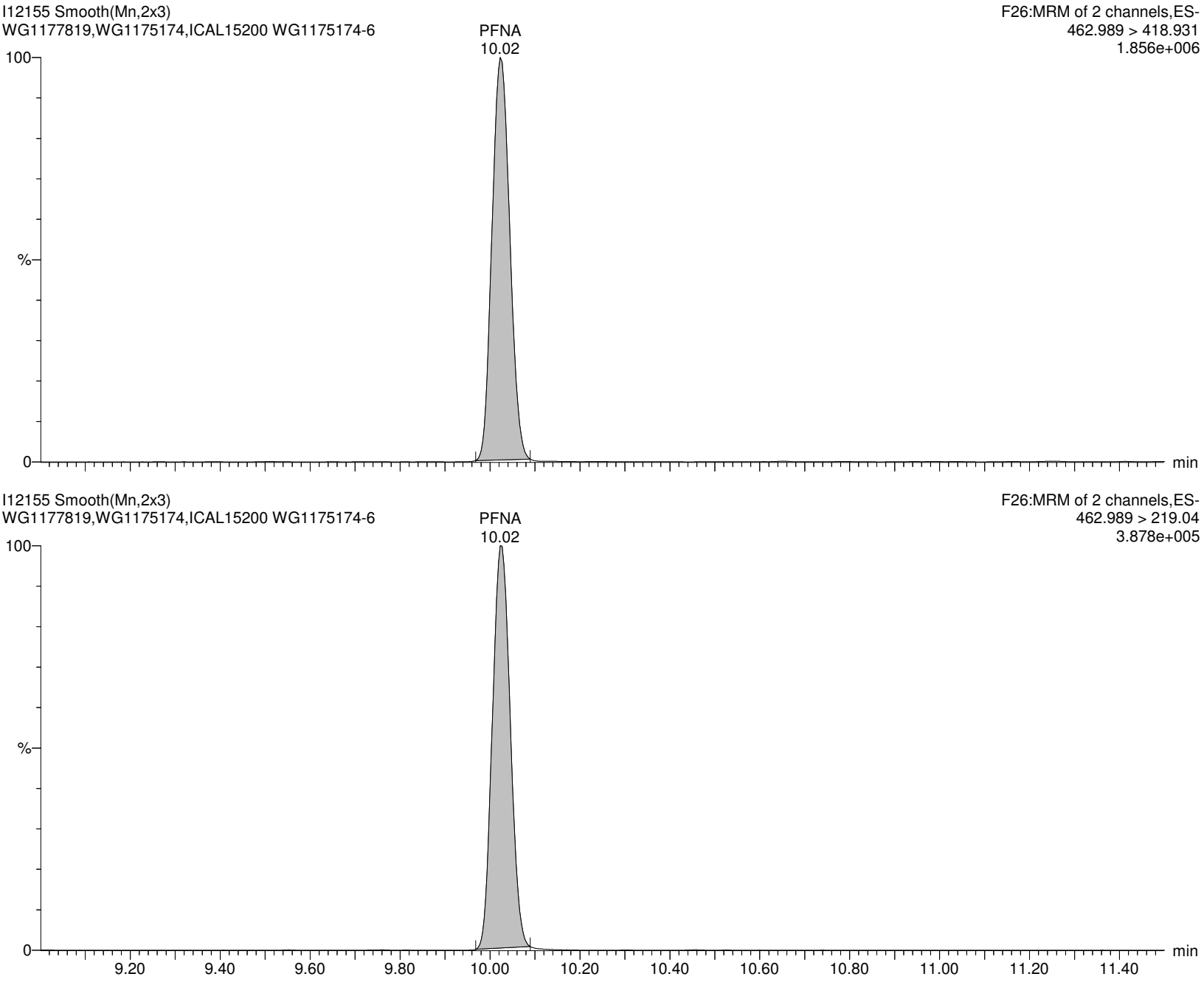

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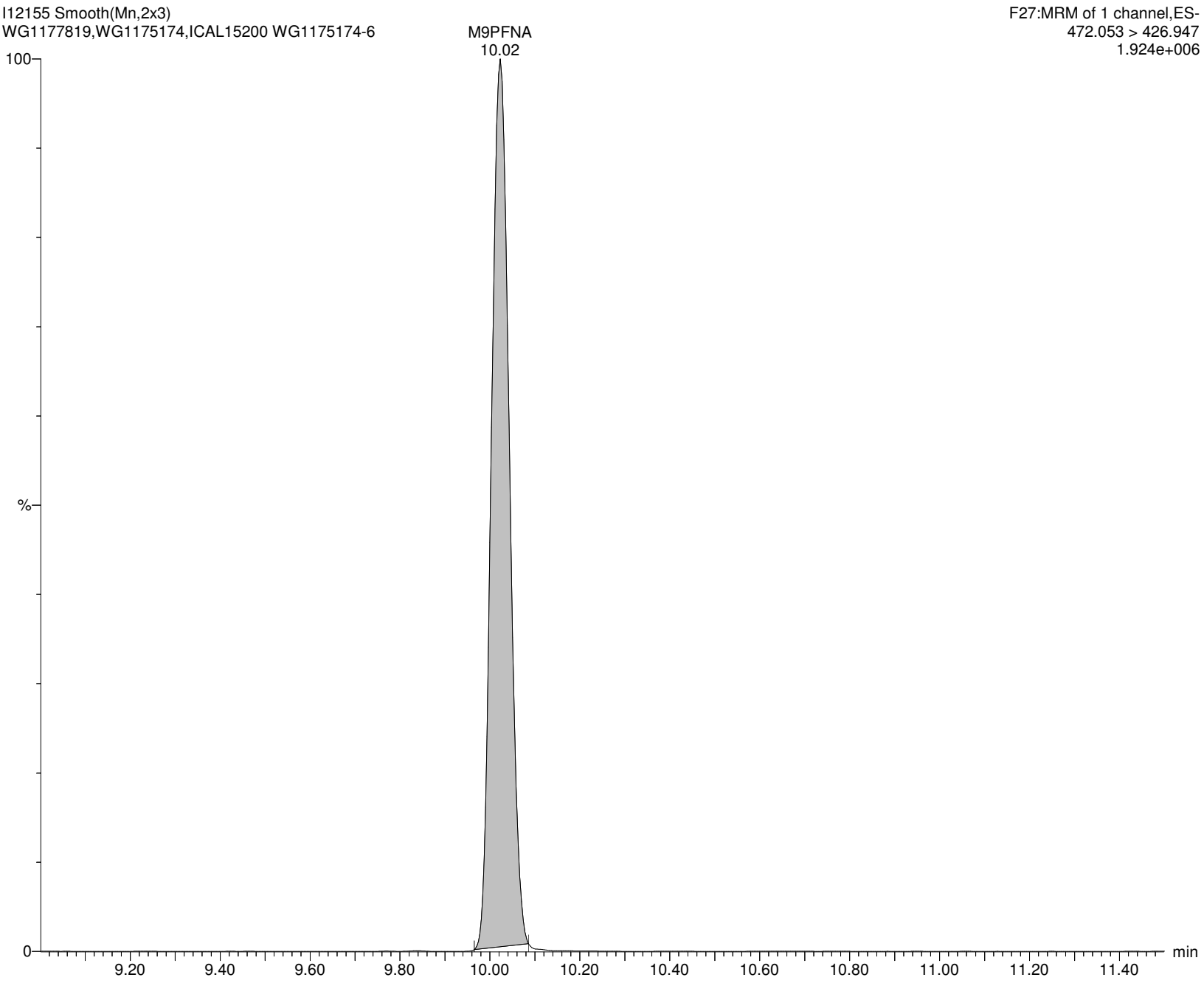
M9PFNA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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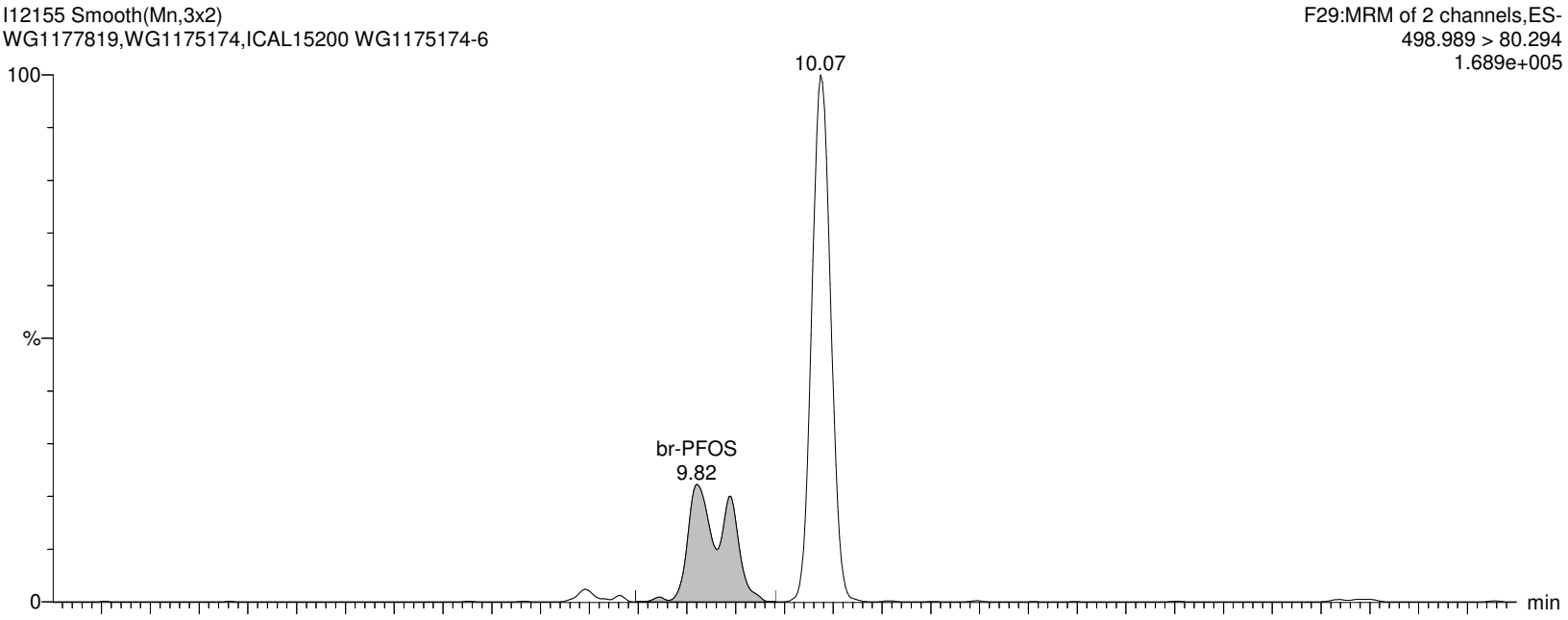

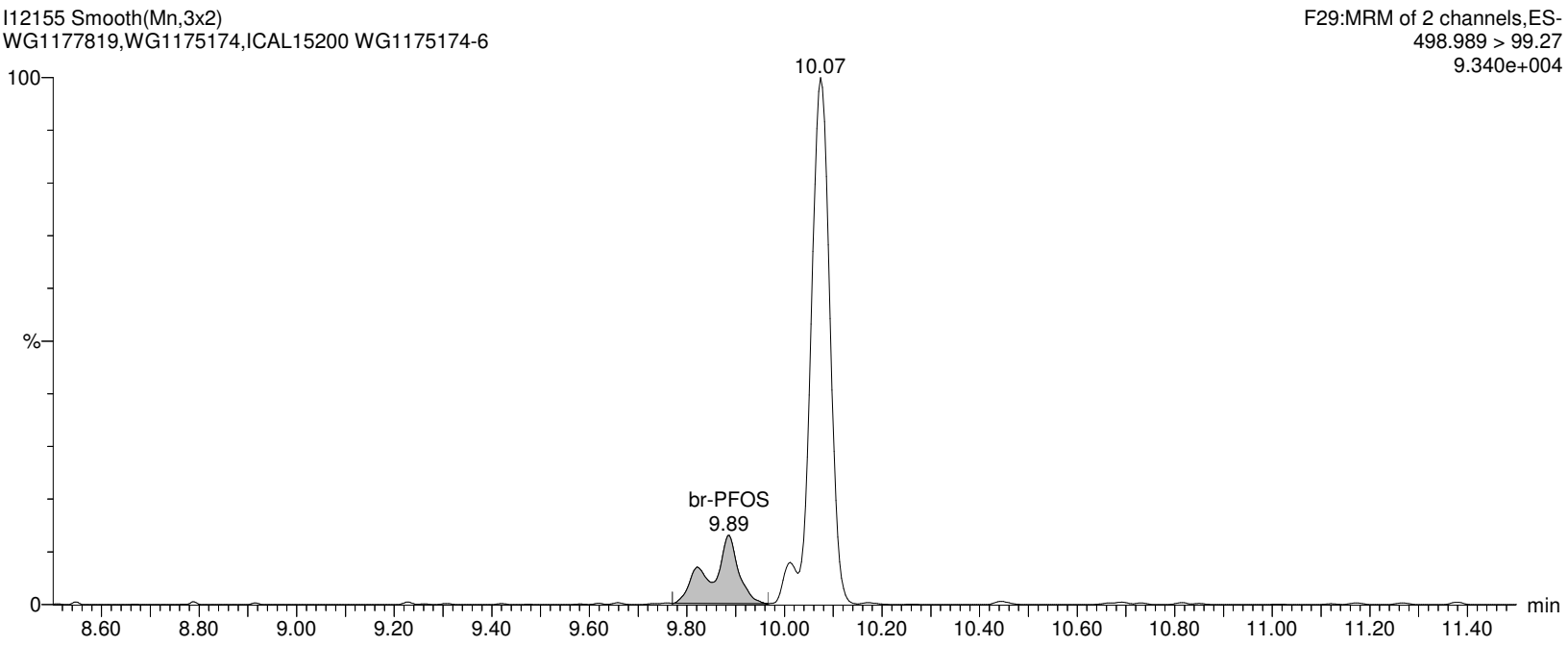

all concentration units in (ng/mL)

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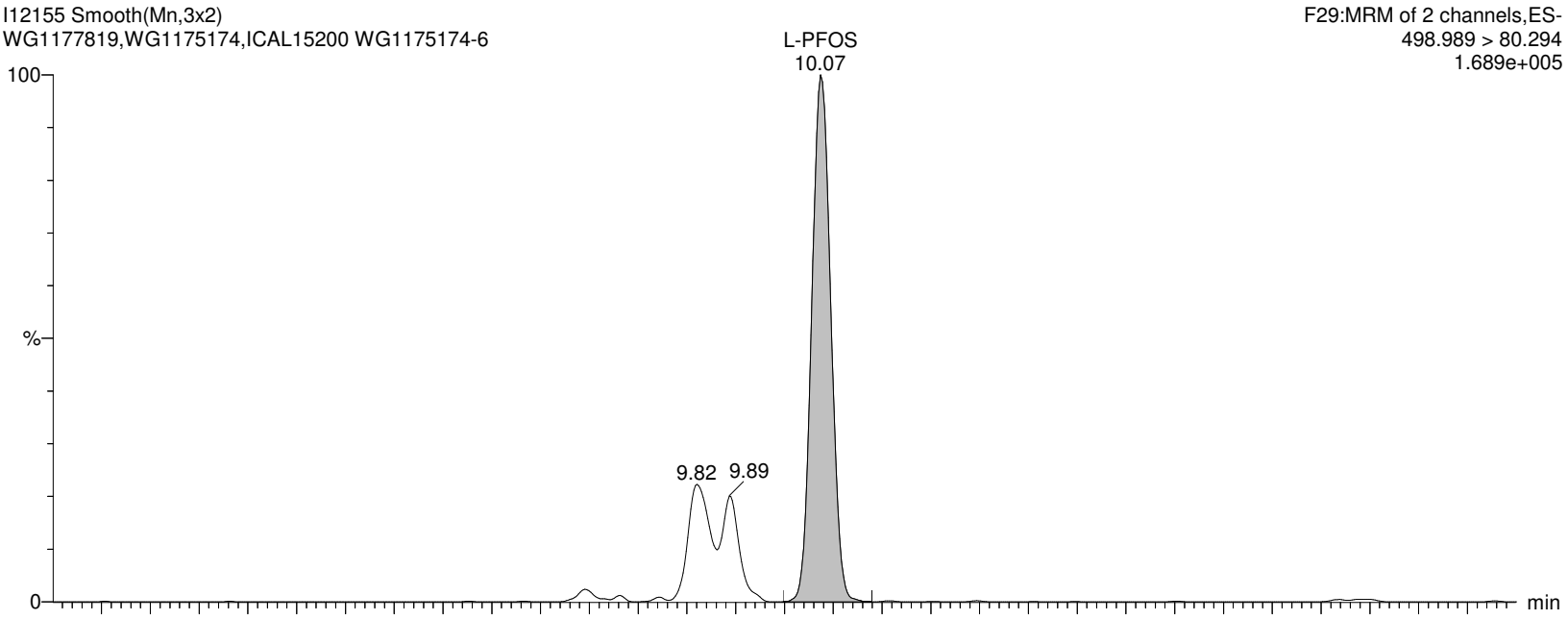

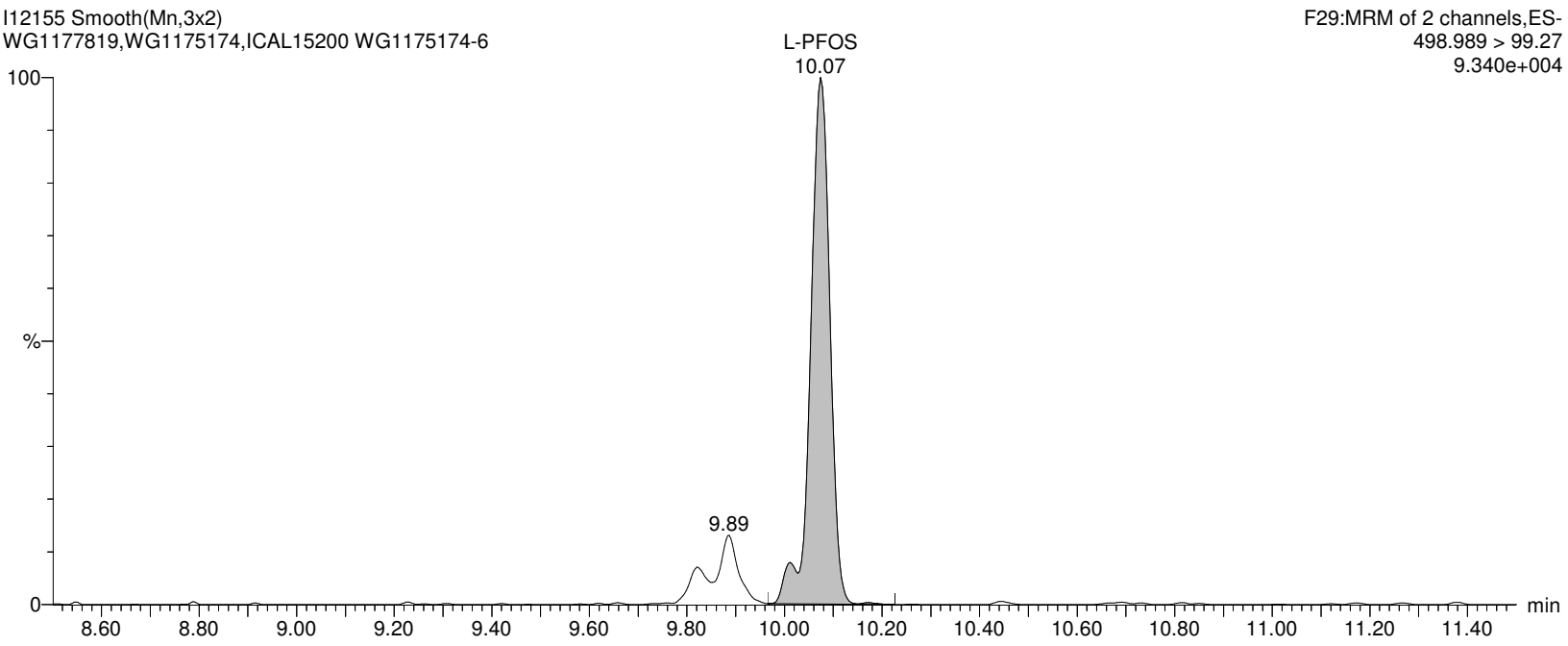

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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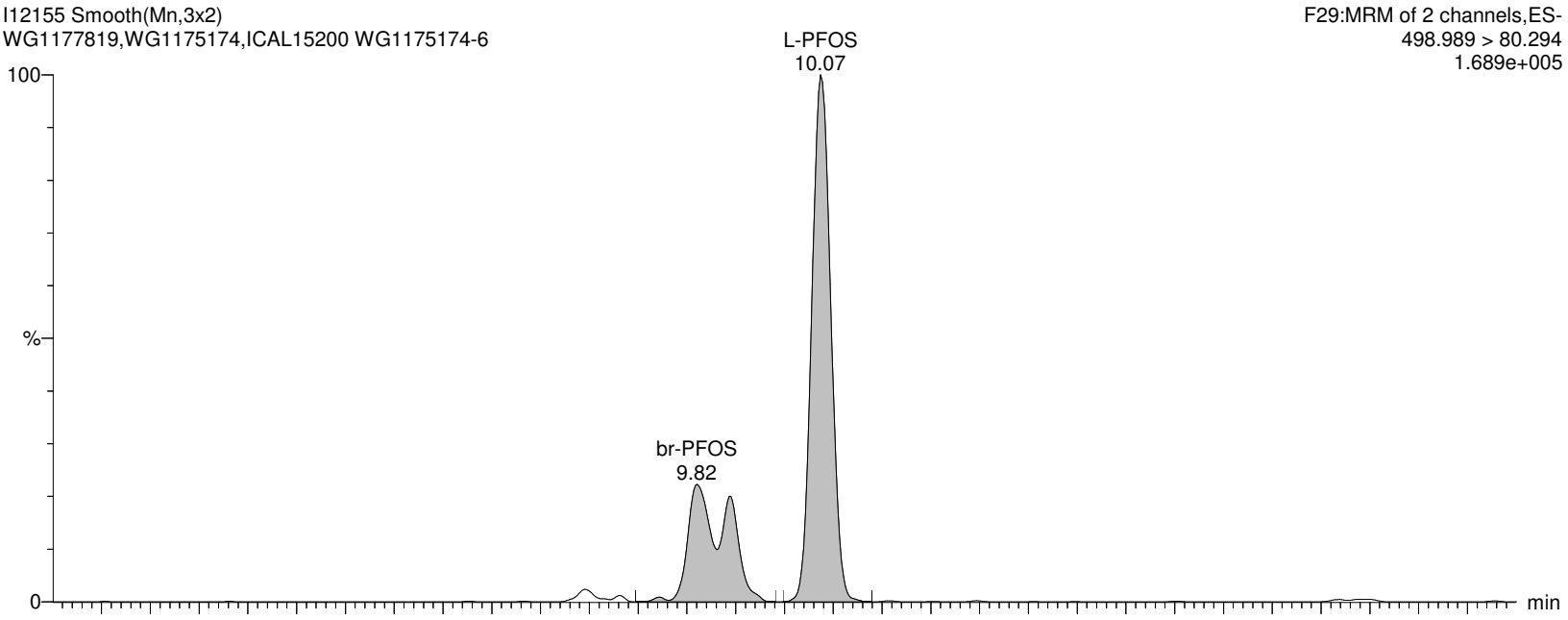

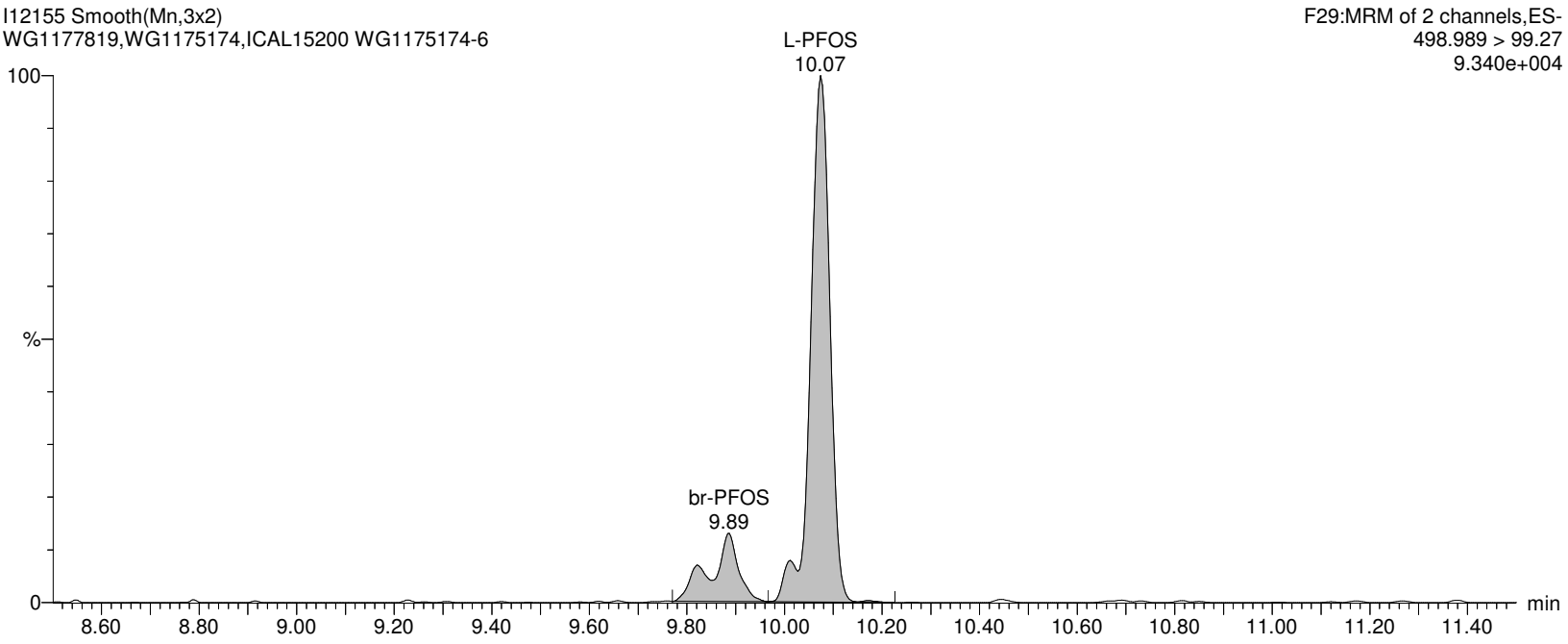

all concentration units in (ng/mL)

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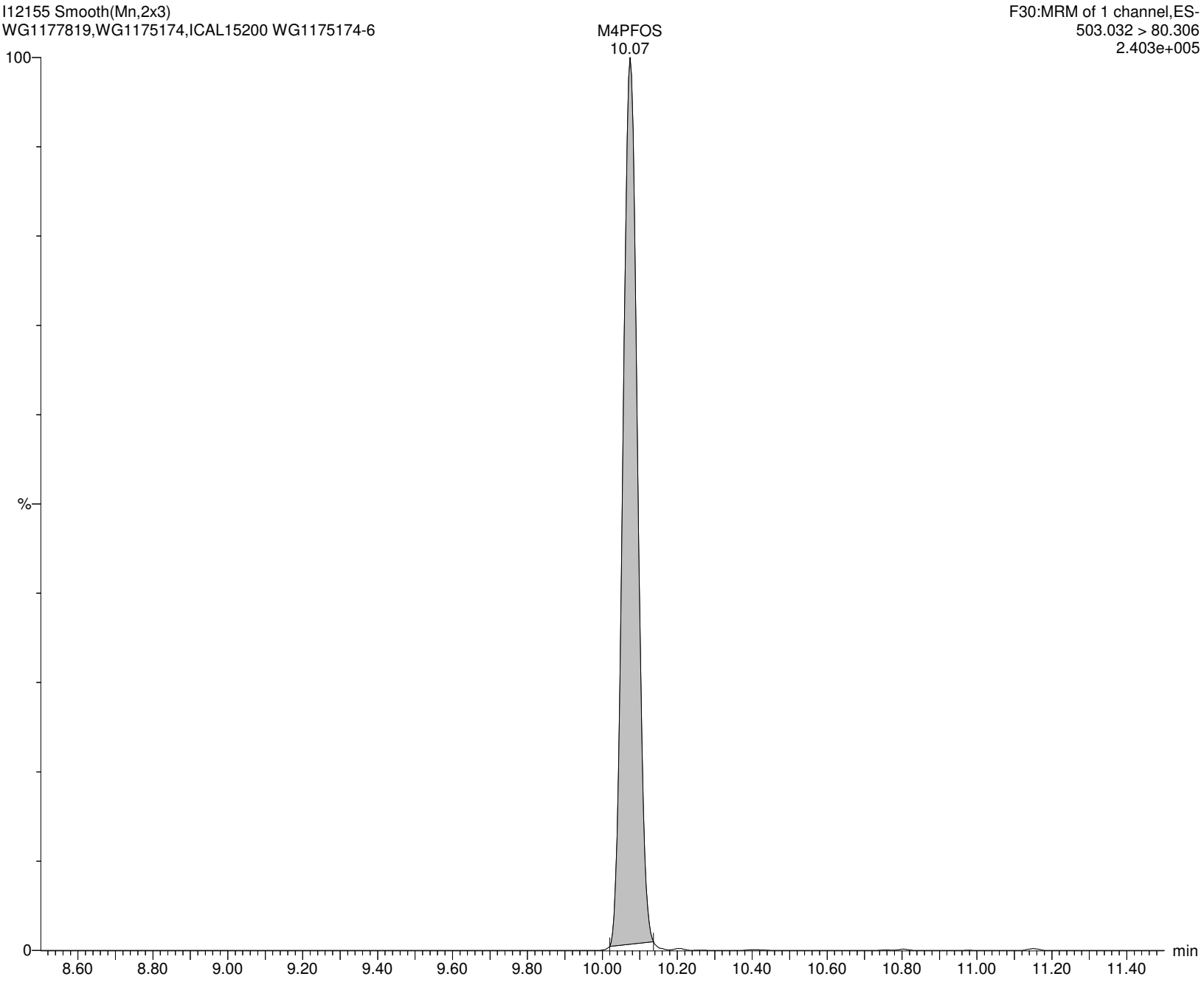

all concentration units in (ng/mL)

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Vial: 1:C,8
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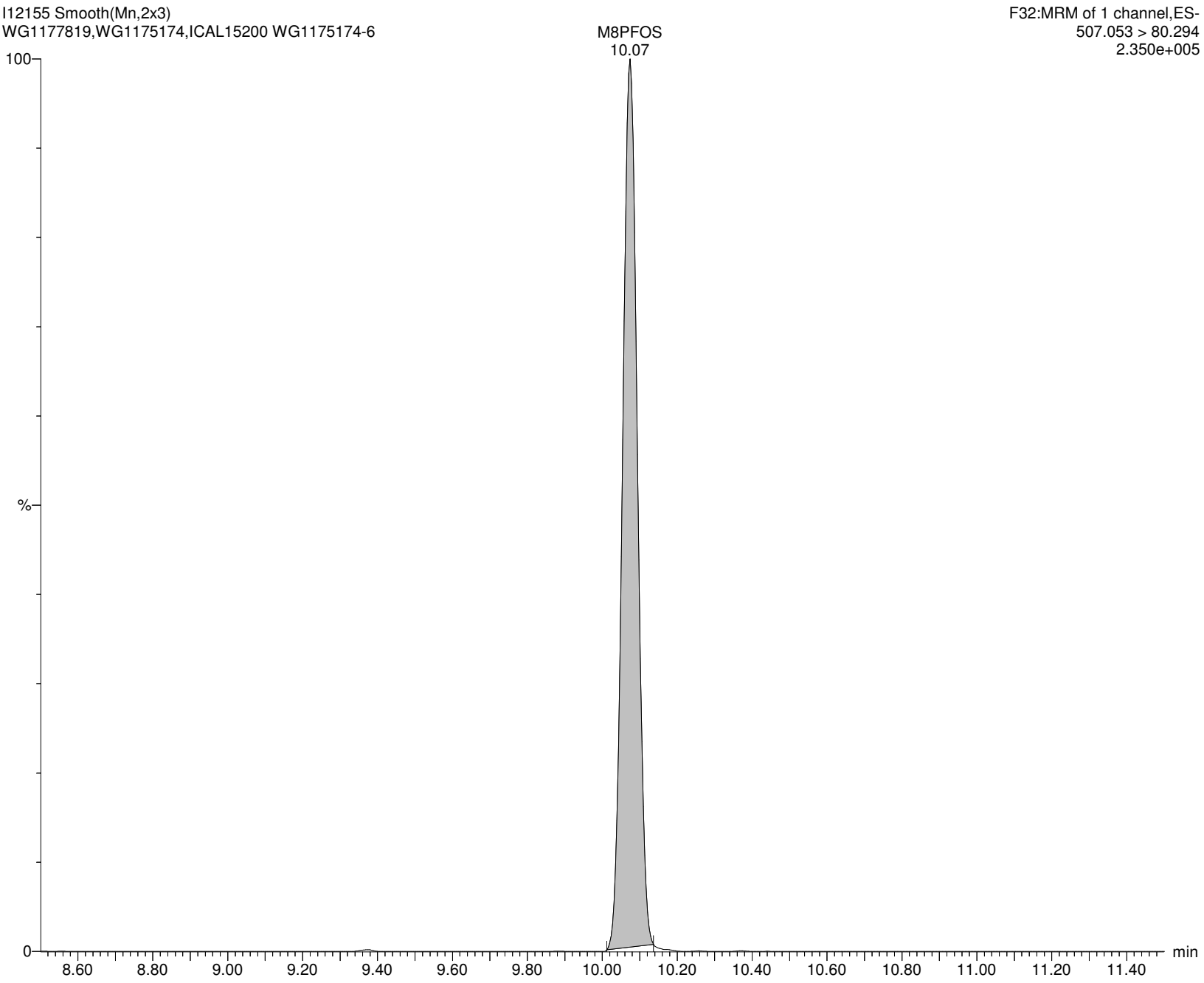

all concentration units in (ng/mL)

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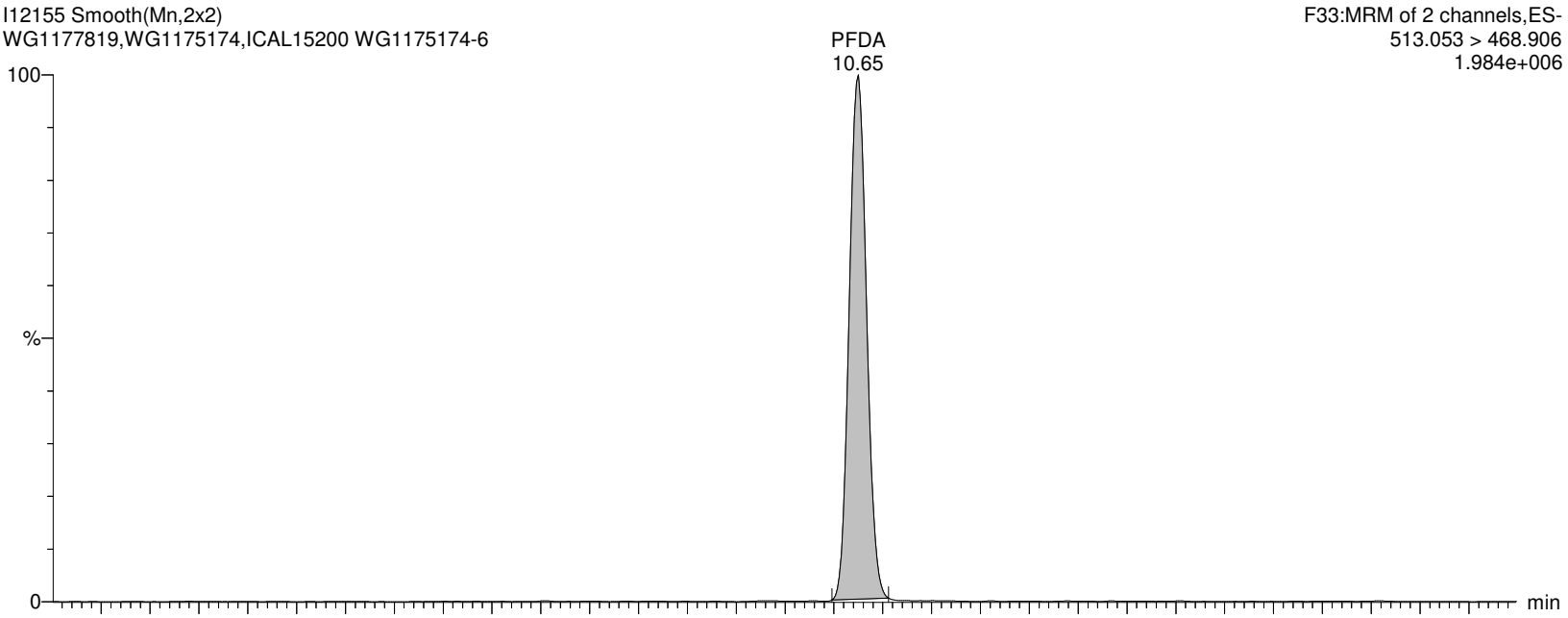

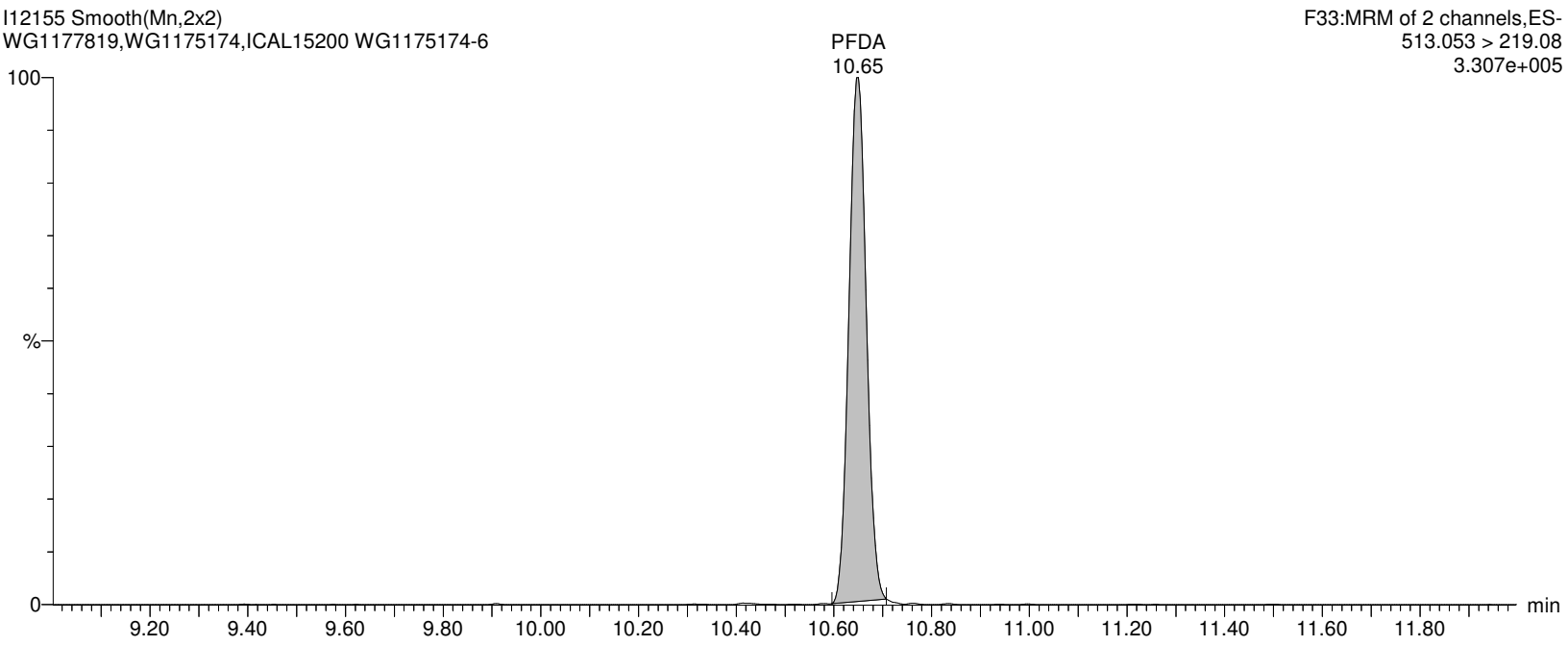

all concentration units in (ng/mL)

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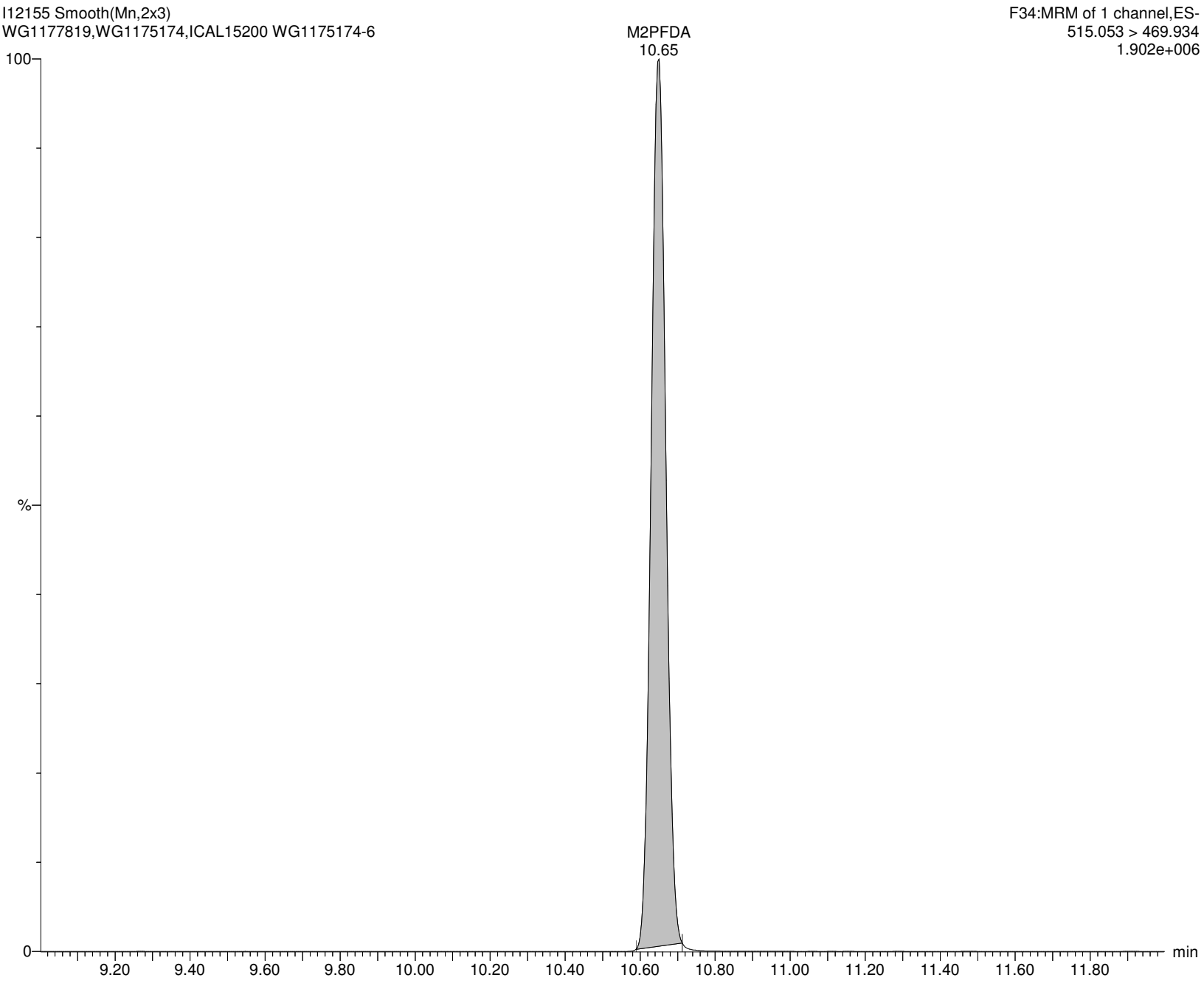

all concentration units in (ng/mL)

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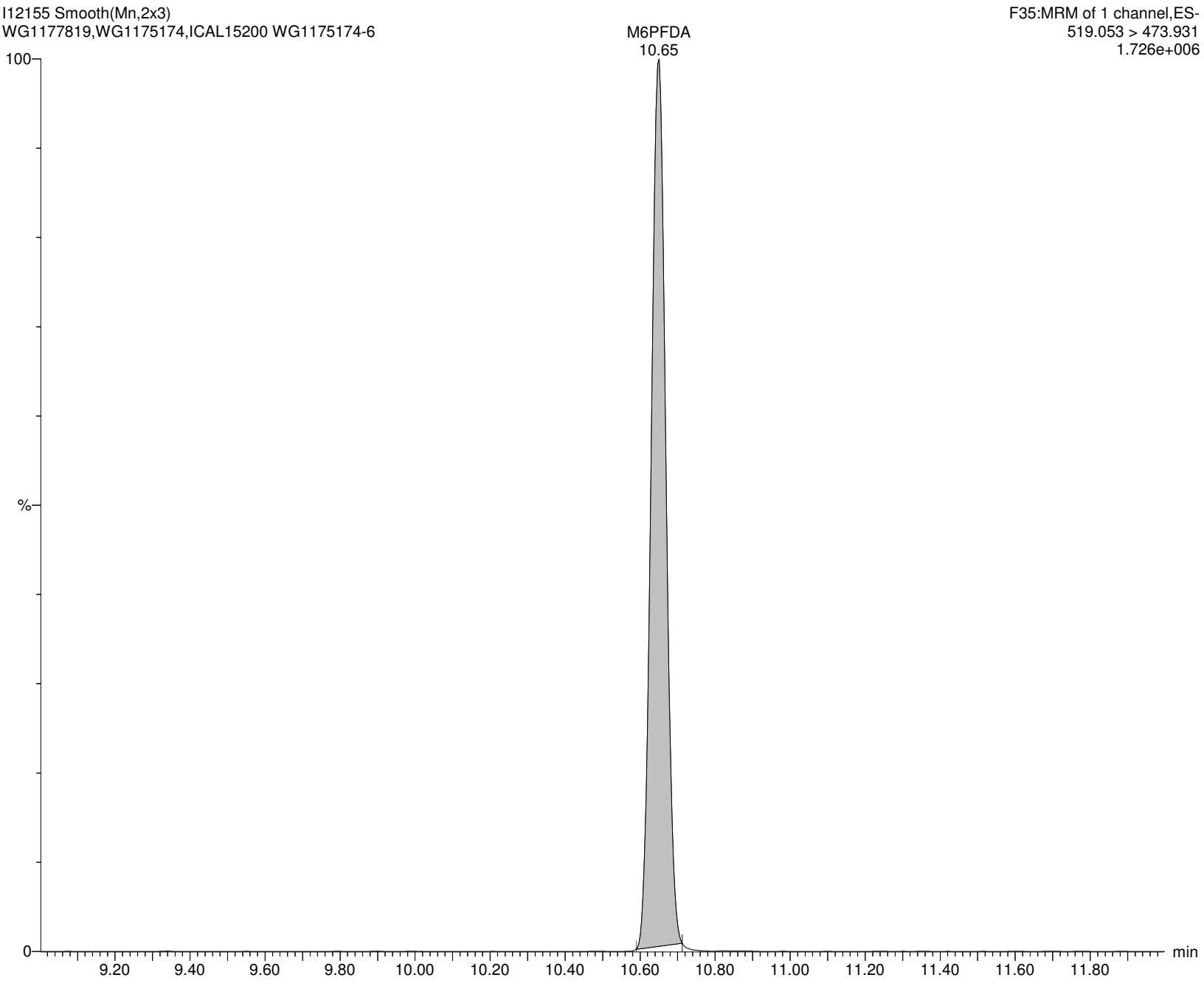

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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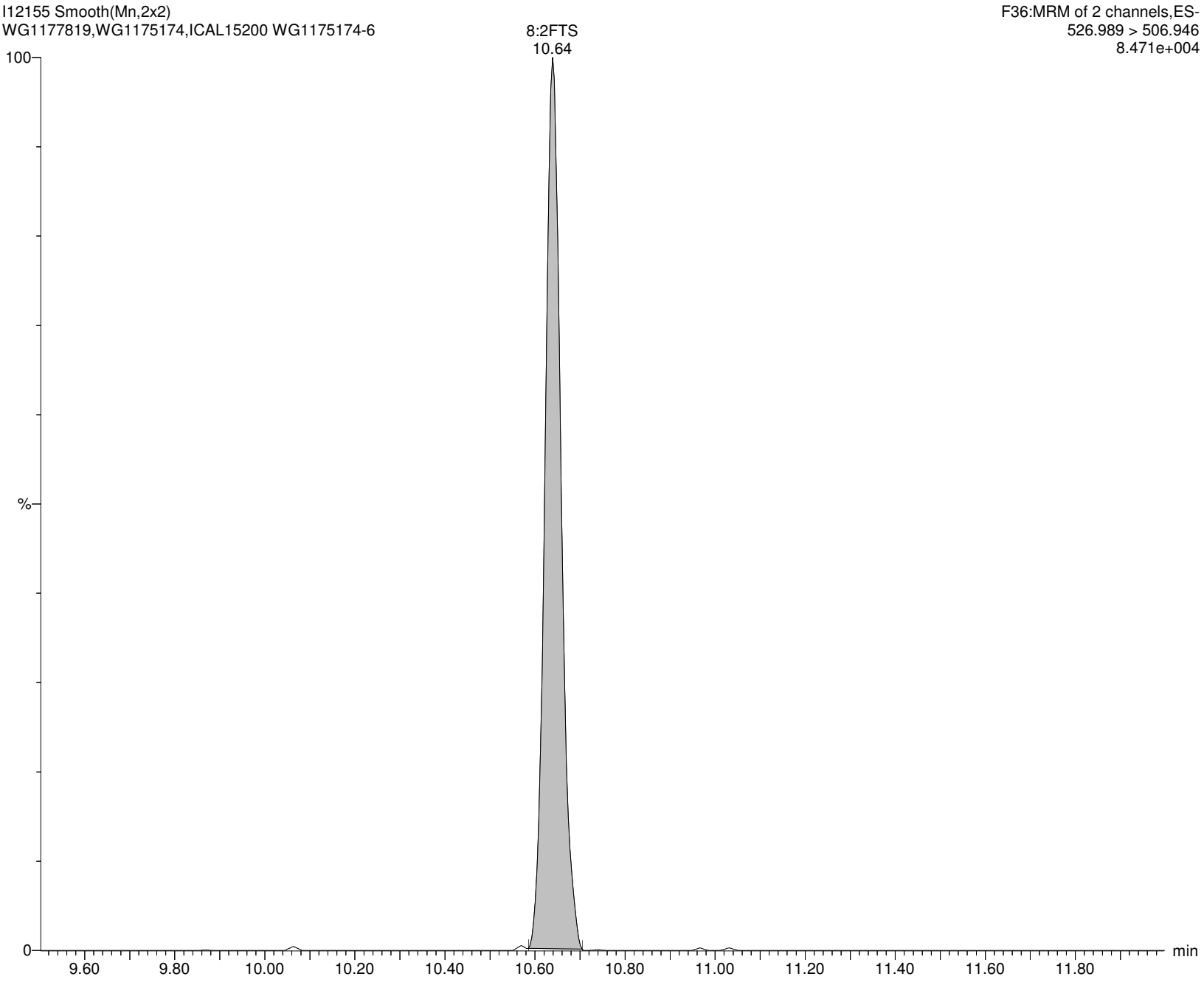

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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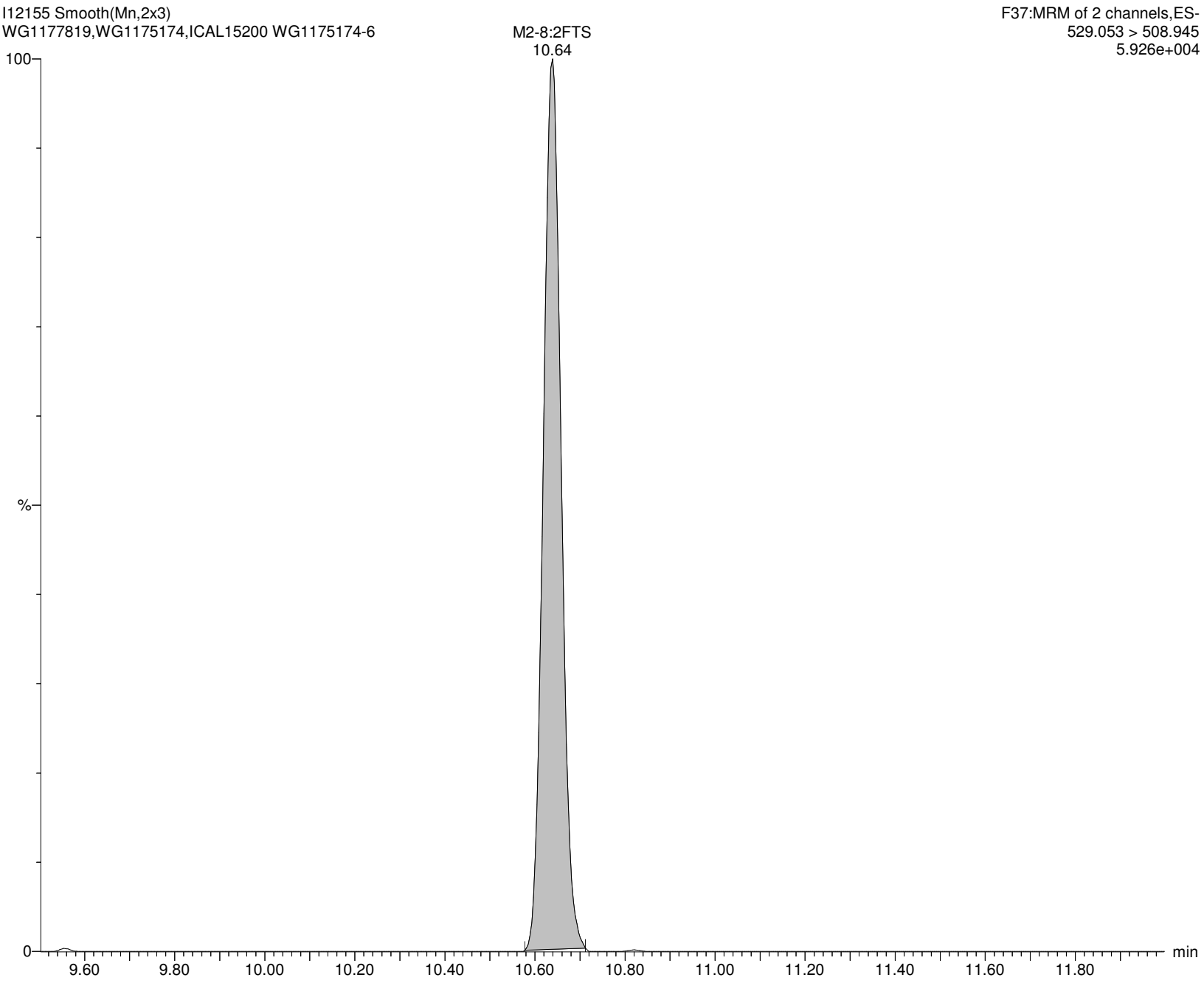

all concentration units in (ng/mL)

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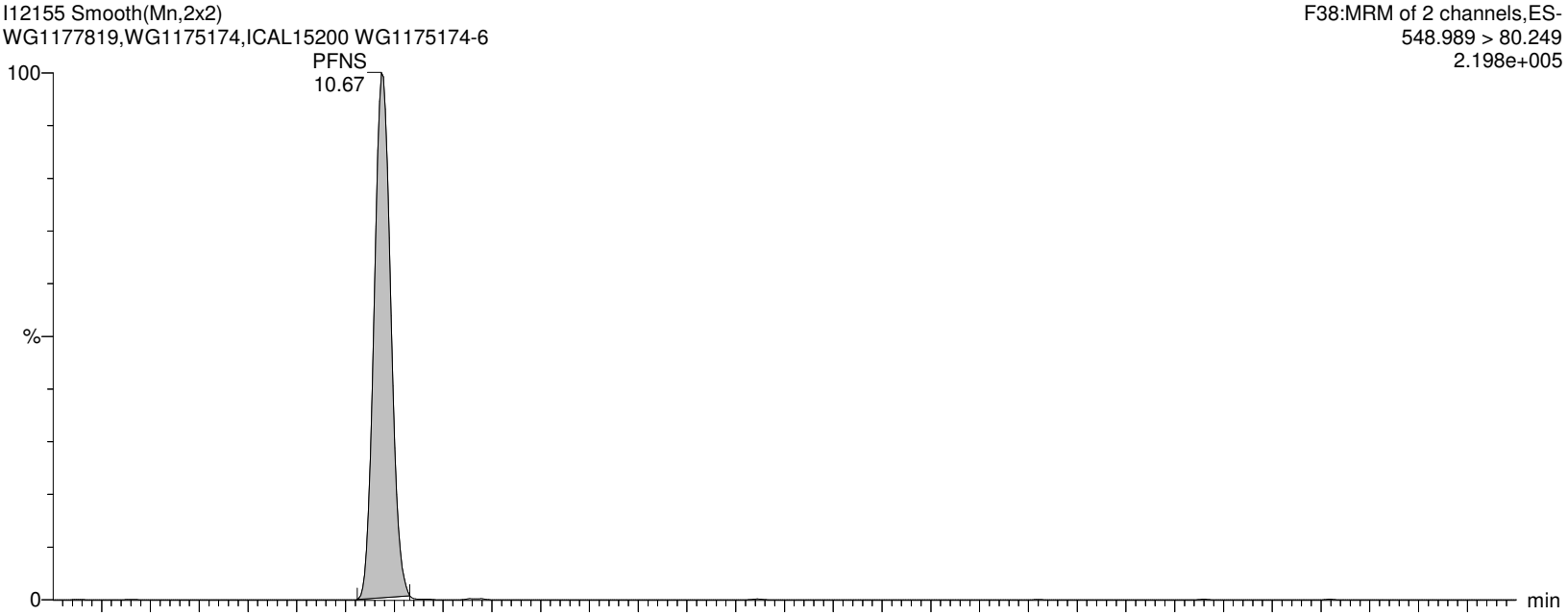

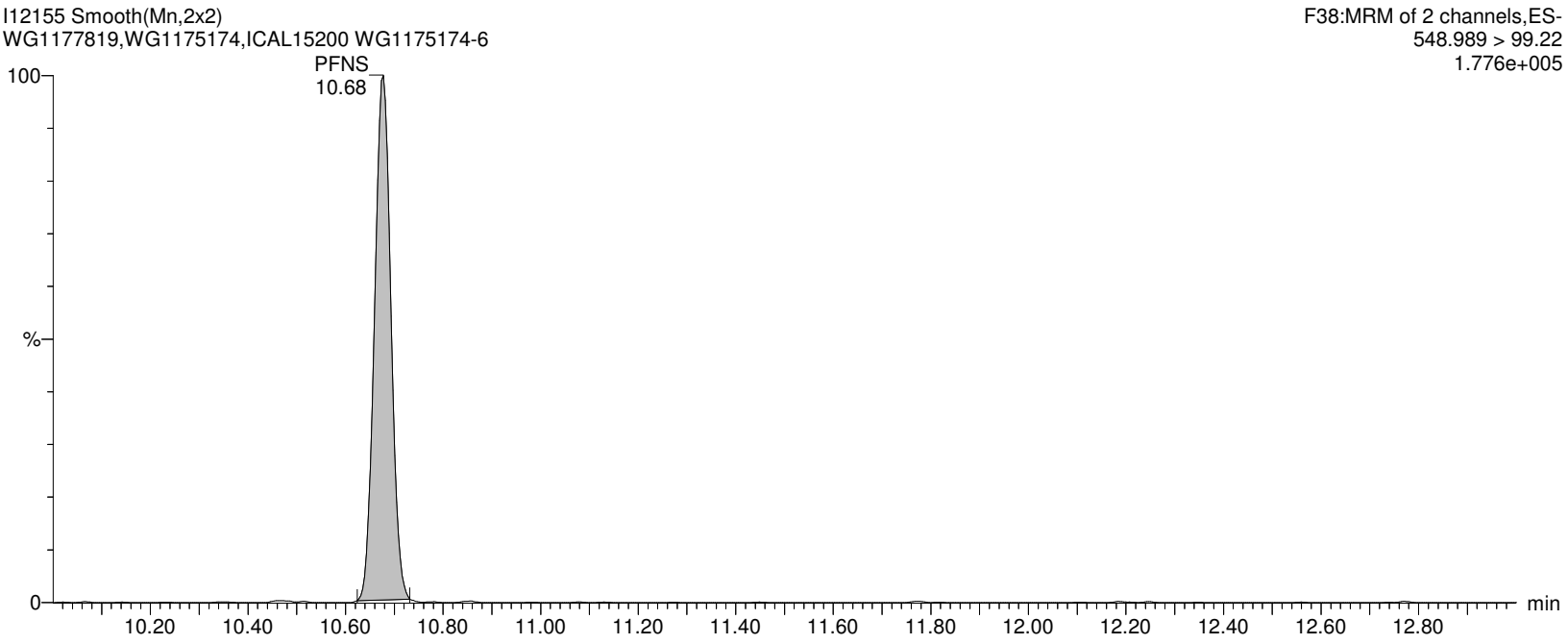

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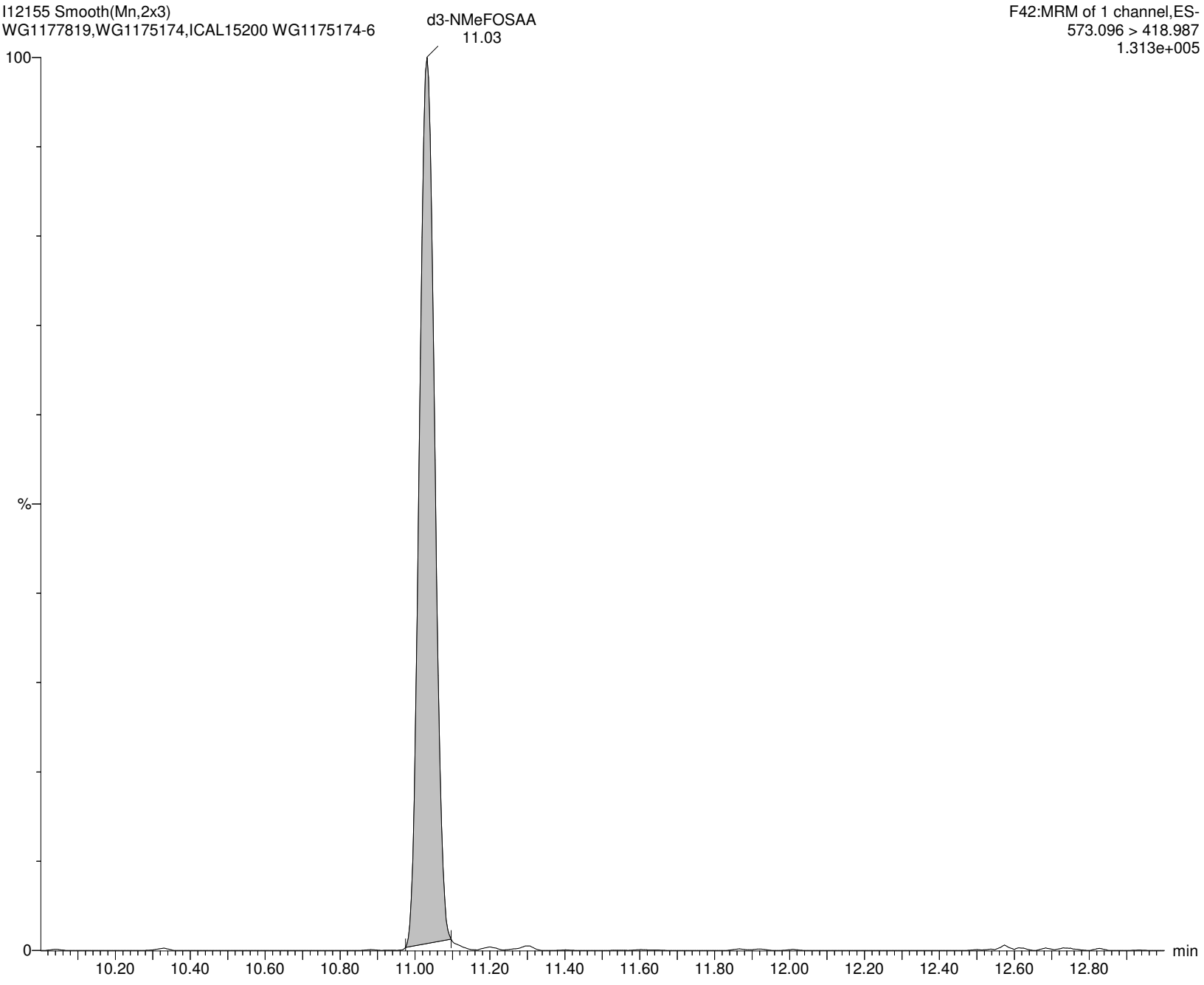

all concentration units in (ng/mL)

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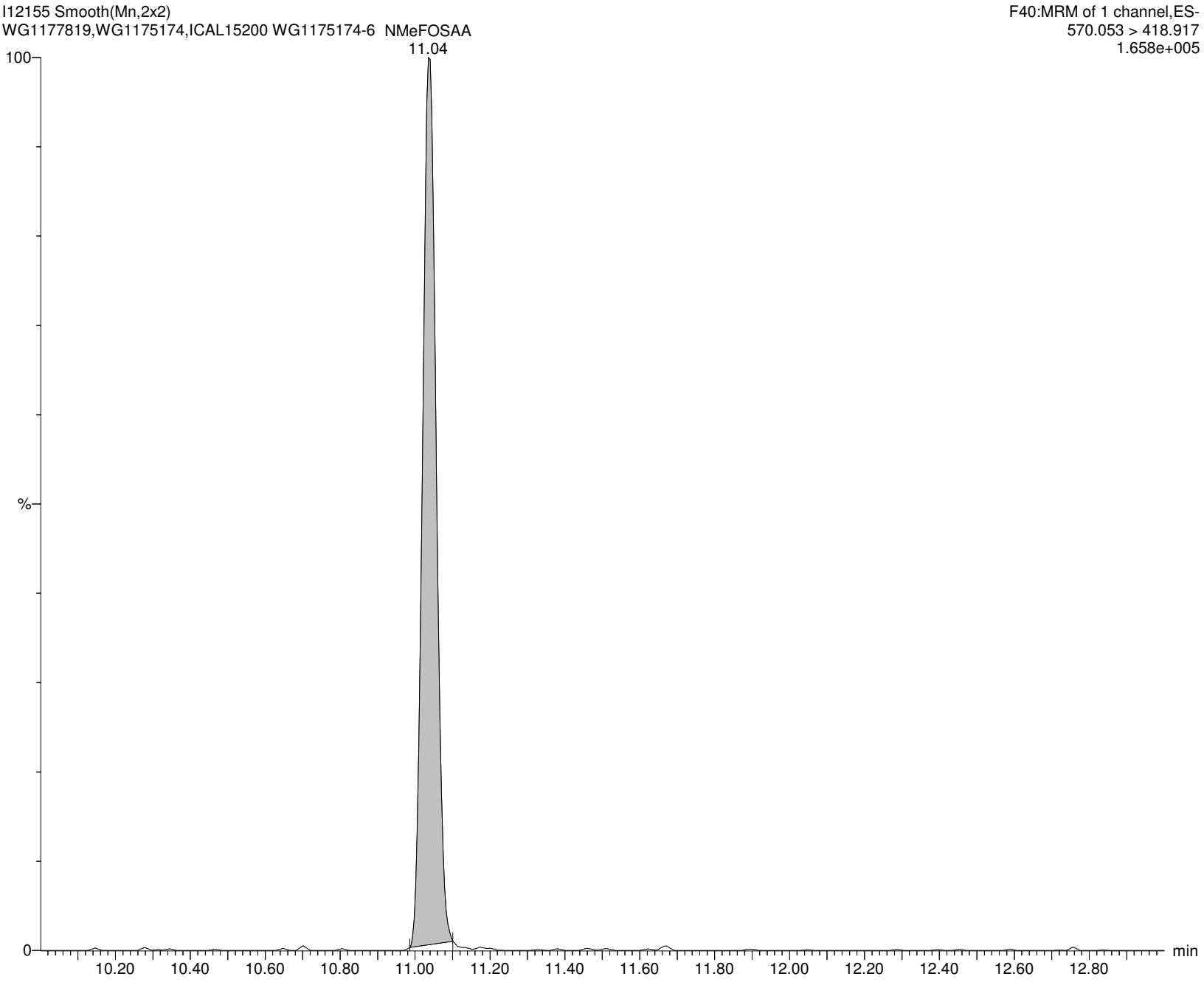

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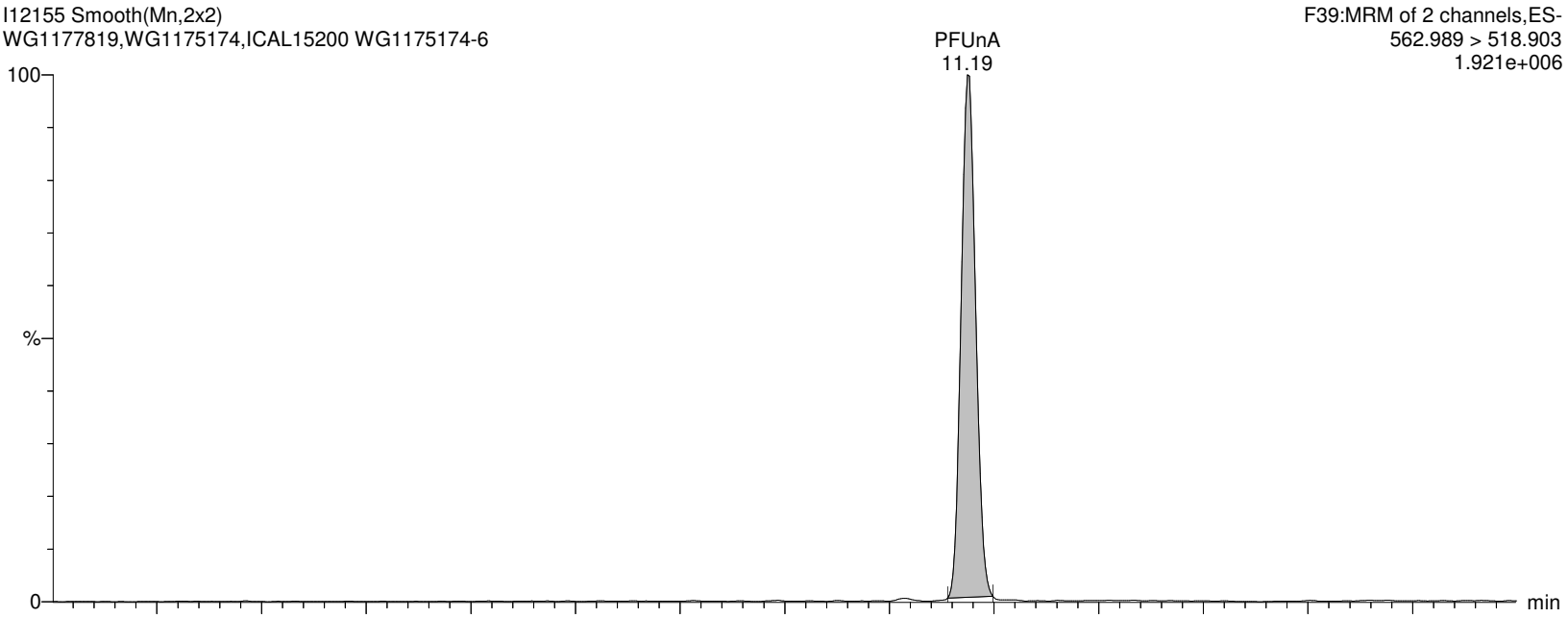

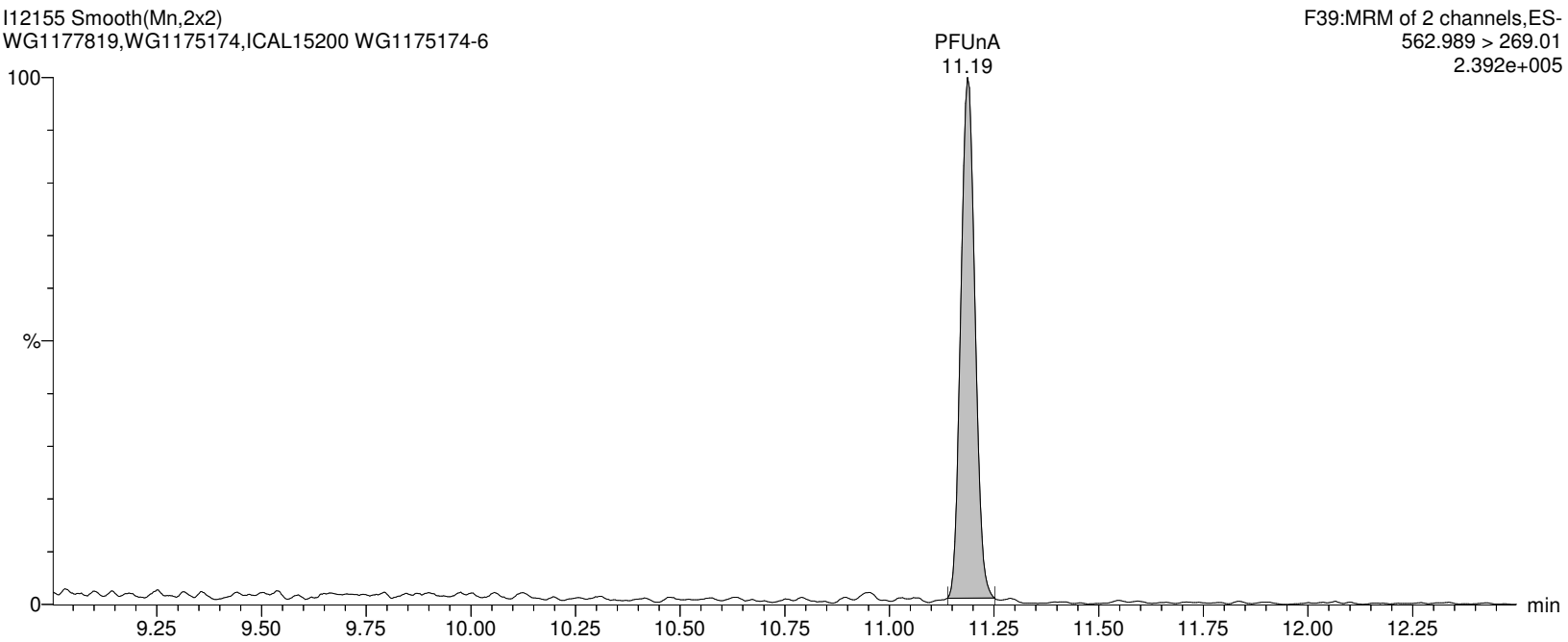

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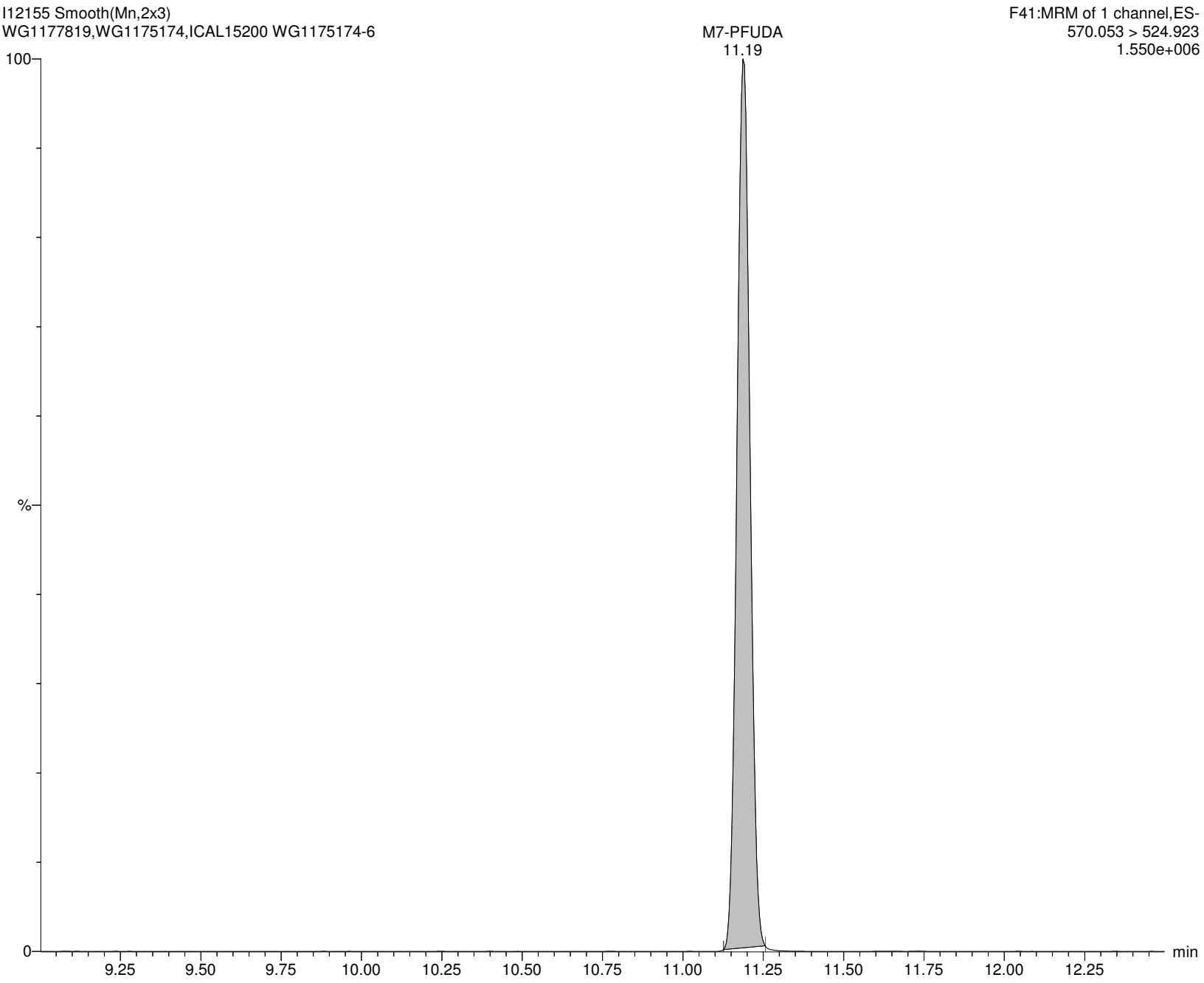

all concentration units in (ng/mL)

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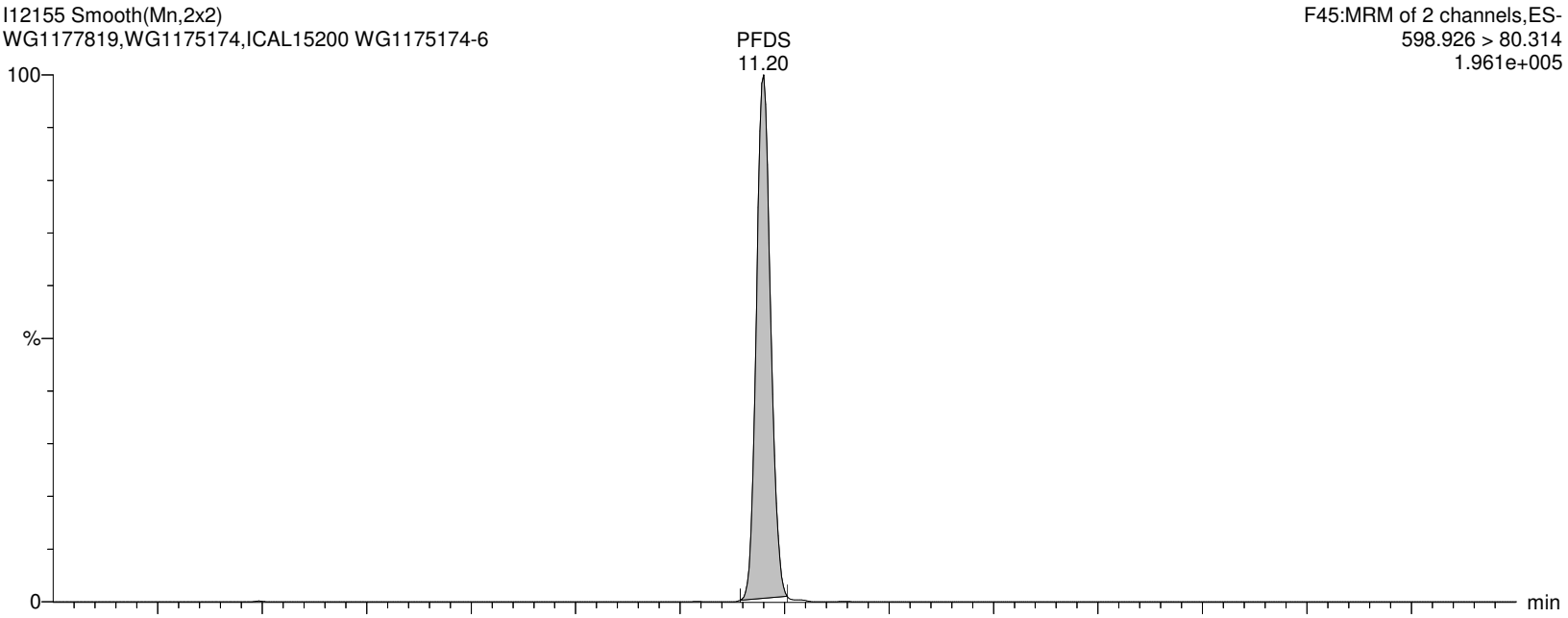
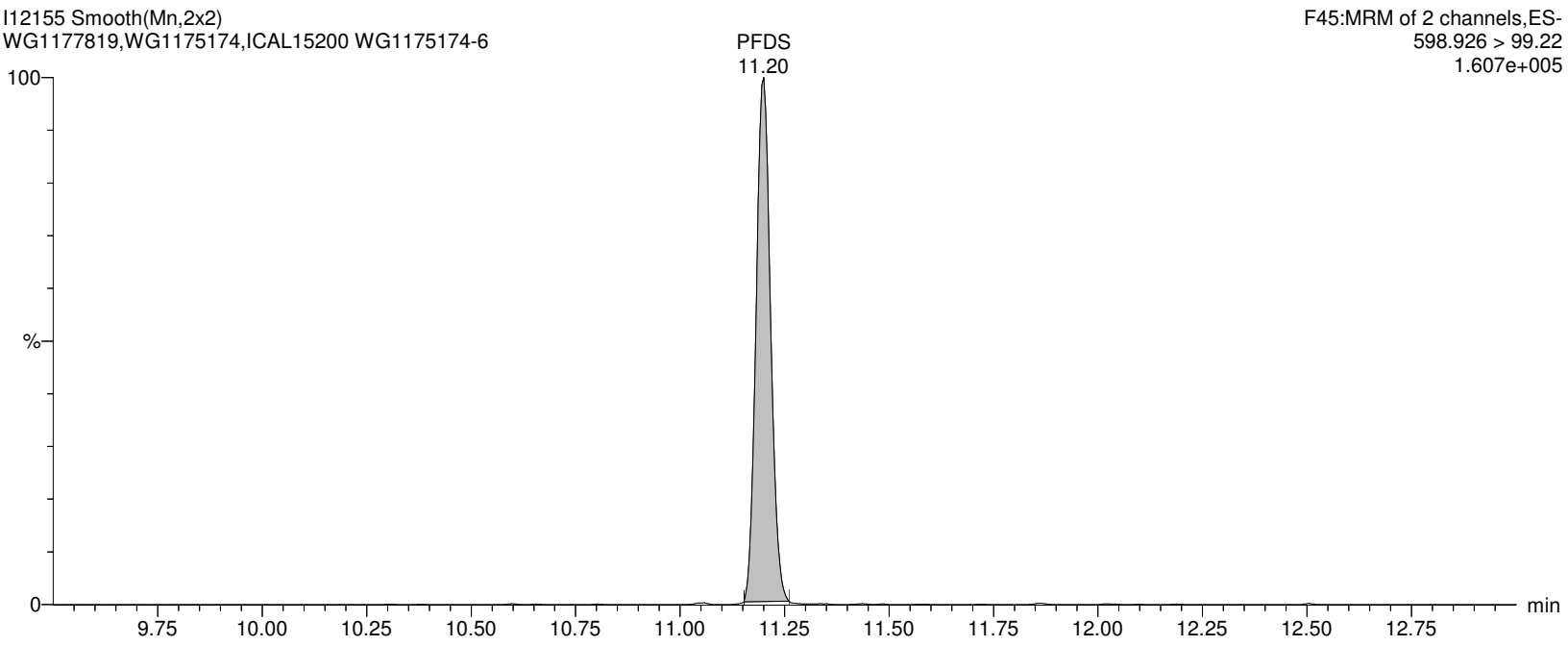


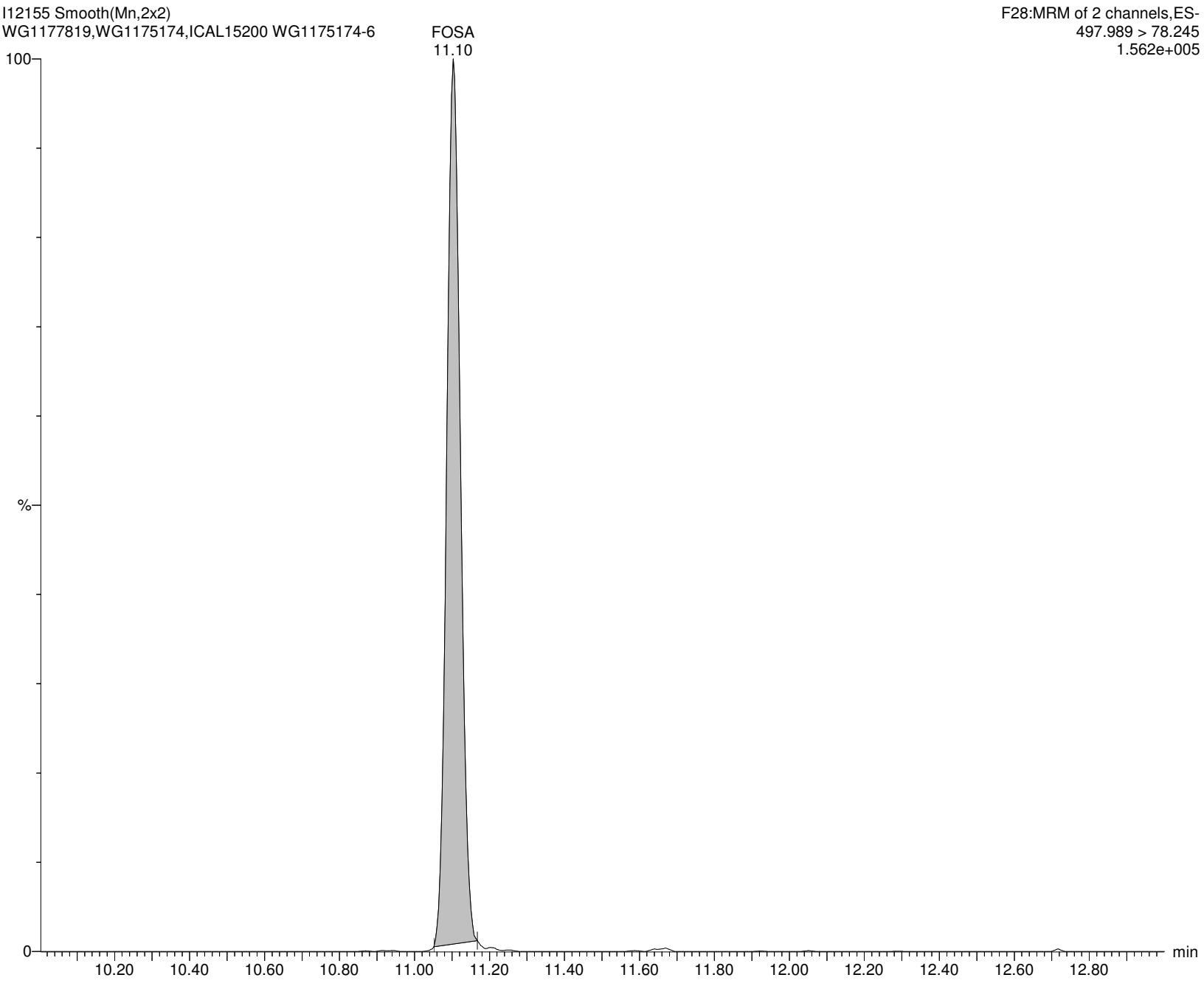


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

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Vial: 1:C,8
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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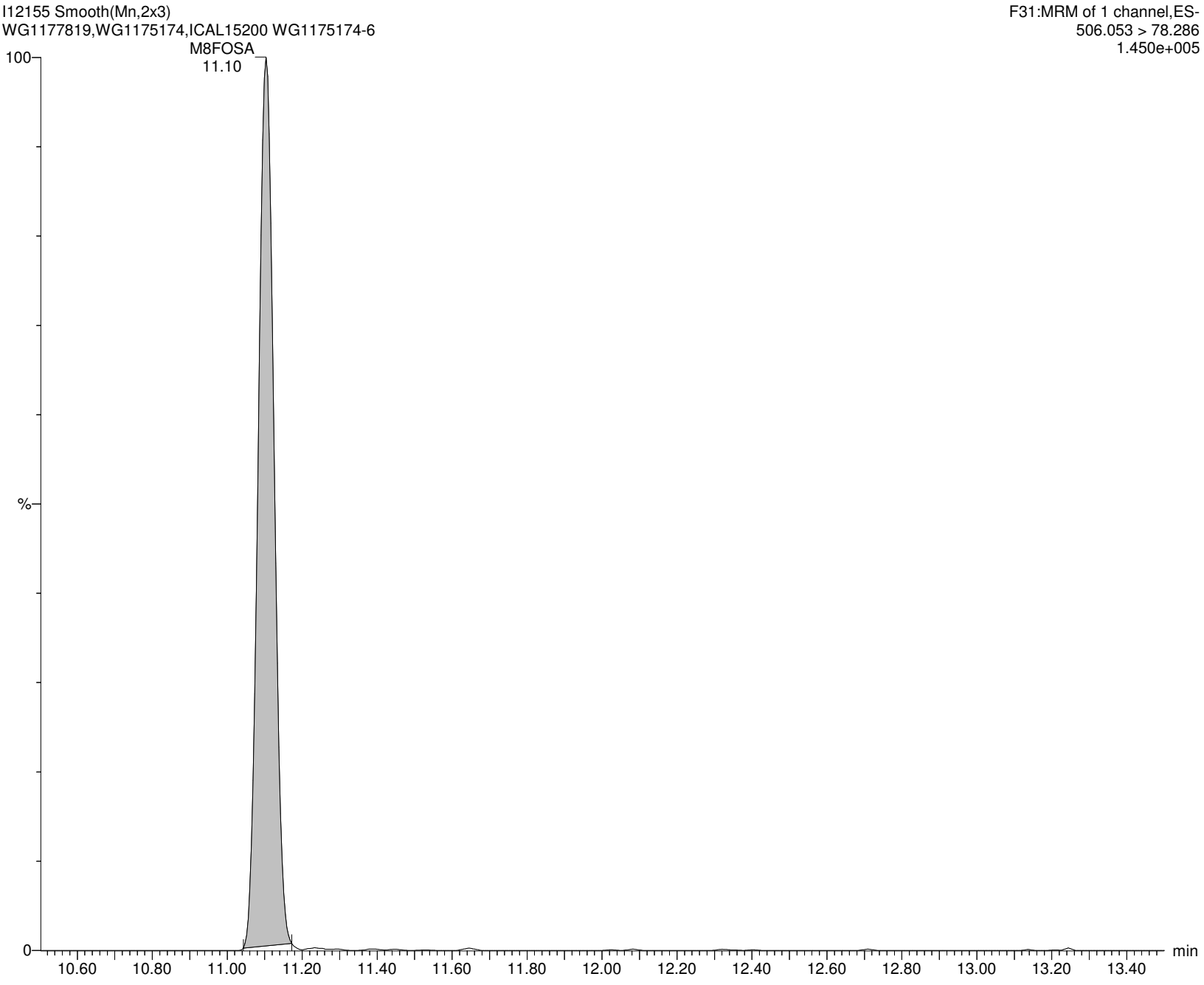
M8FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12155
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Vial: 1:C,8
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Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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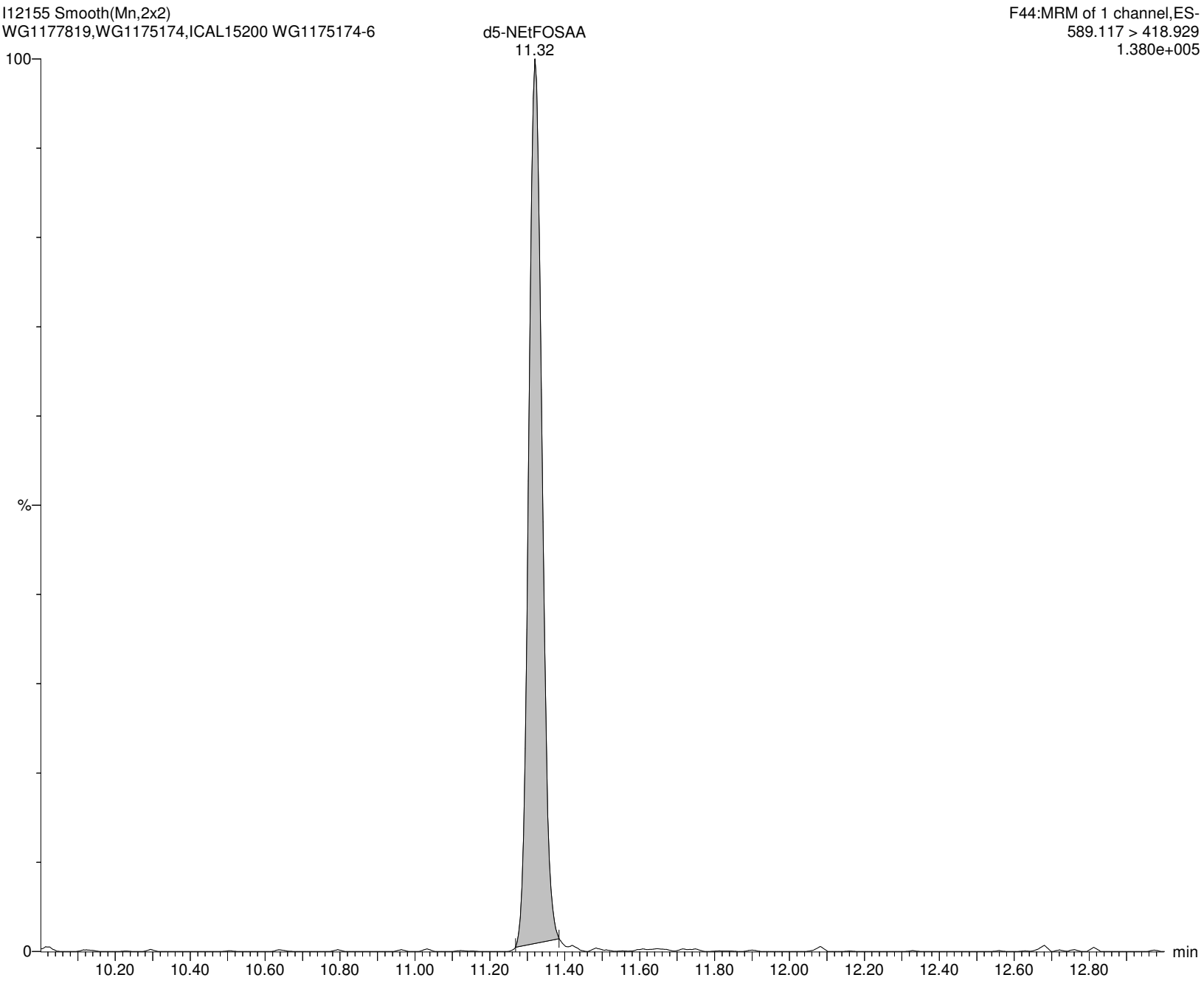

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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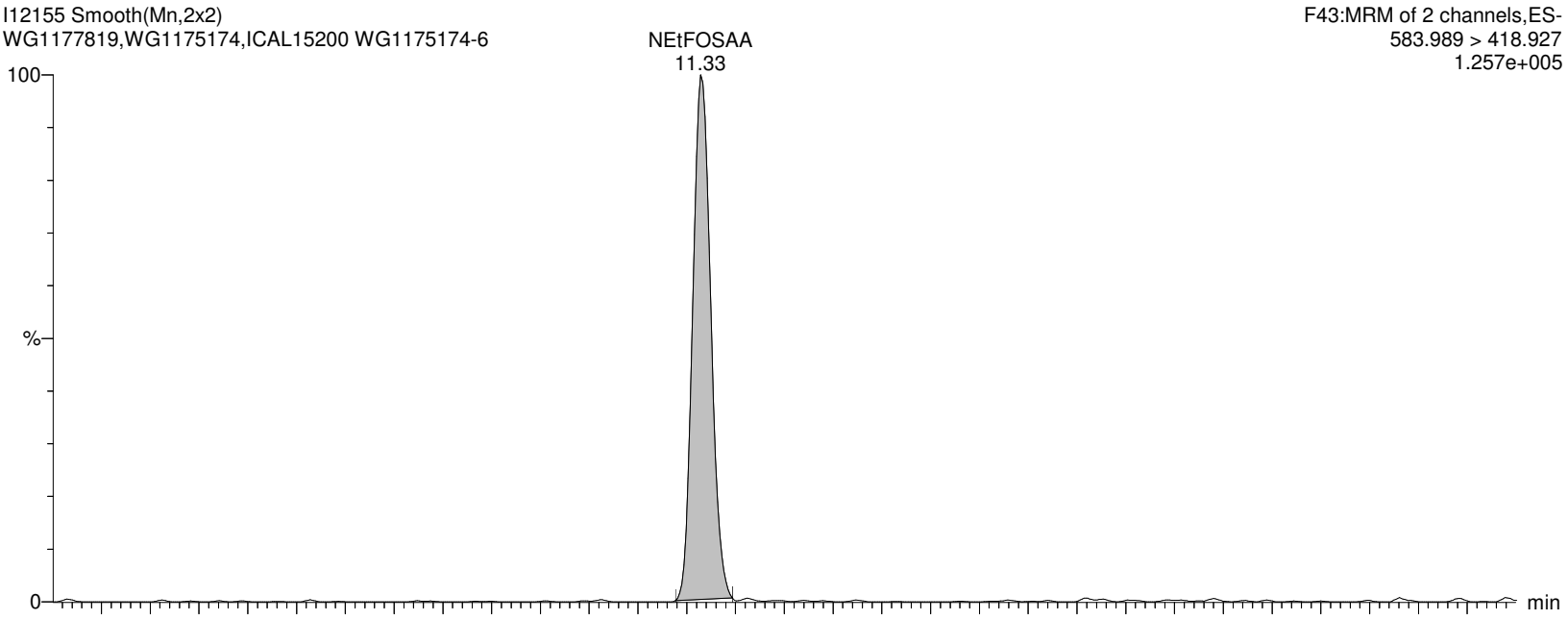

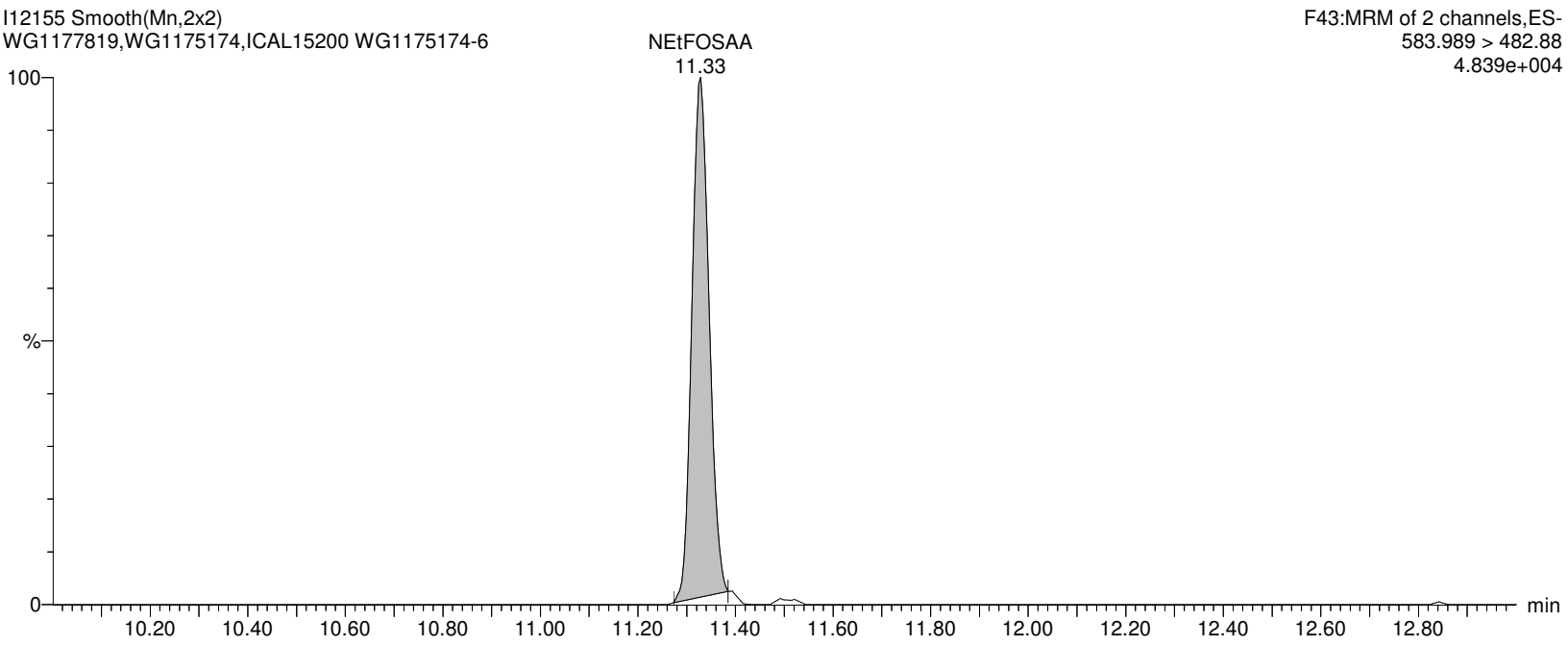

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
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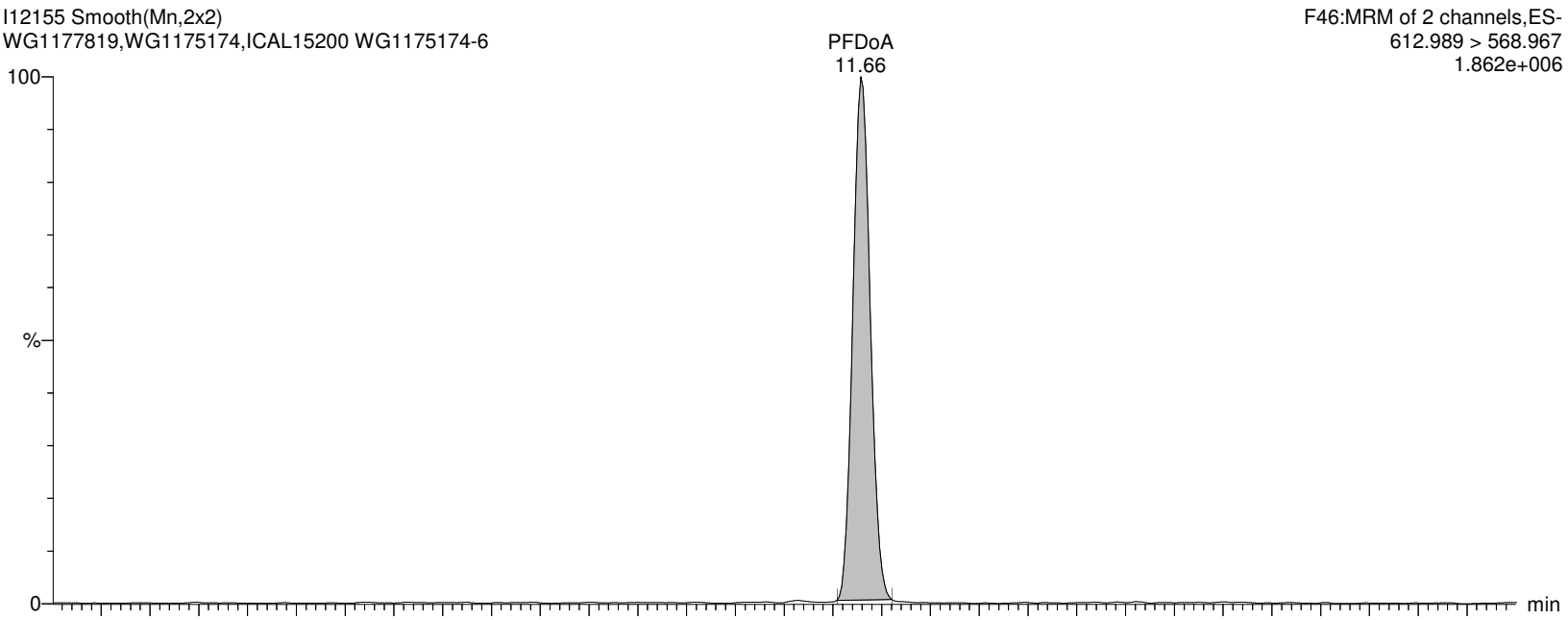
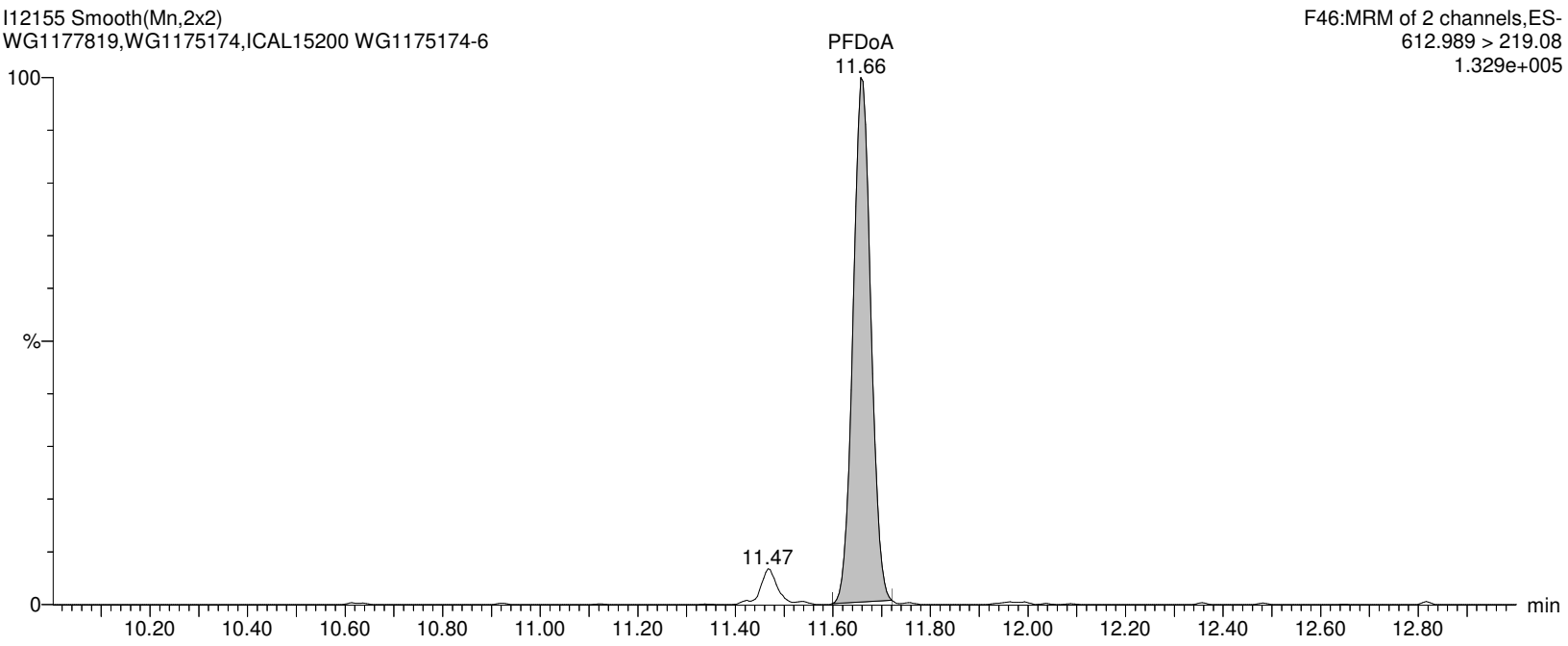
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFDoA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
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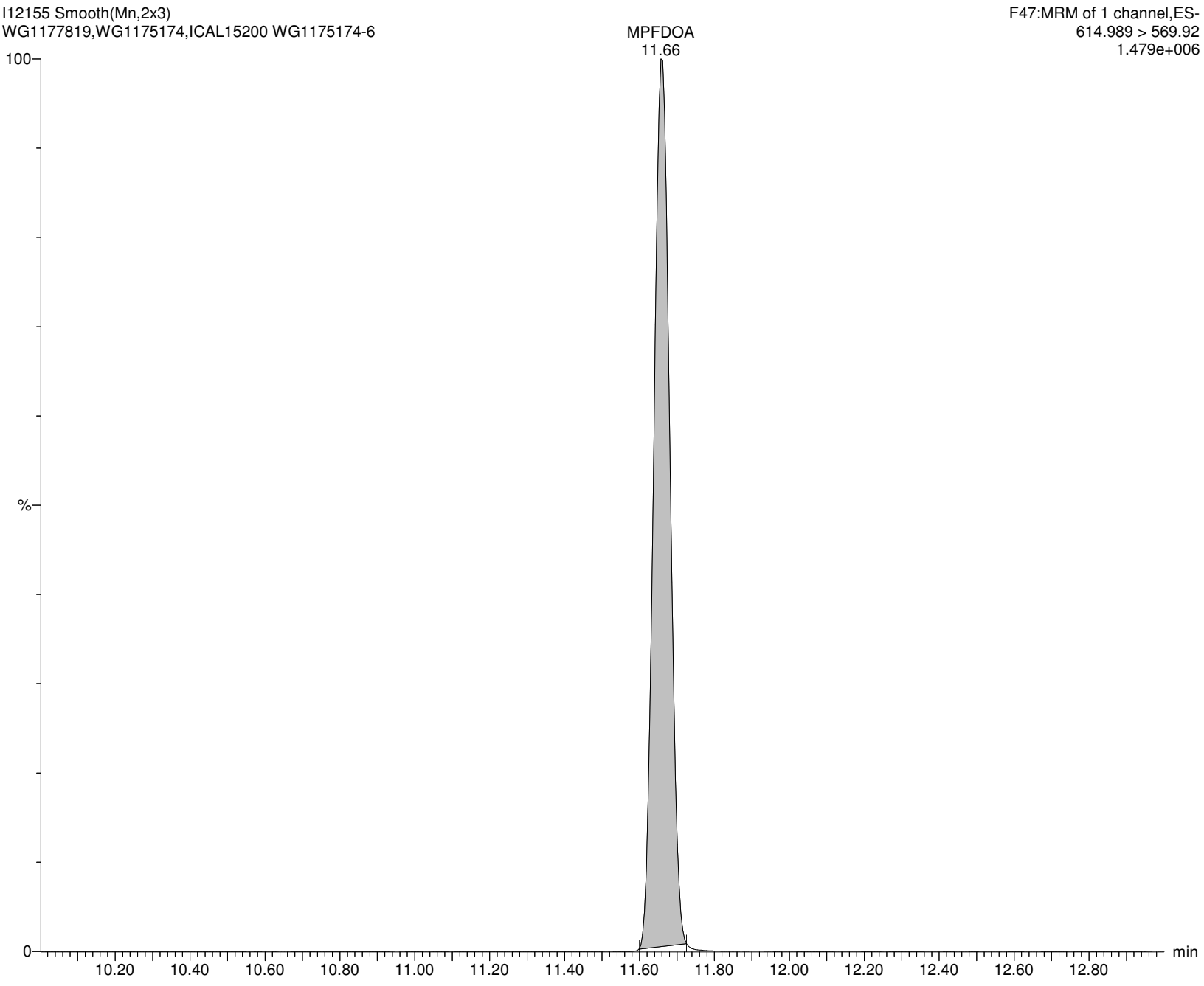

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I12155
ID: WG1175174-6
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Time: 07:41:33
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Vial: 1:C,8
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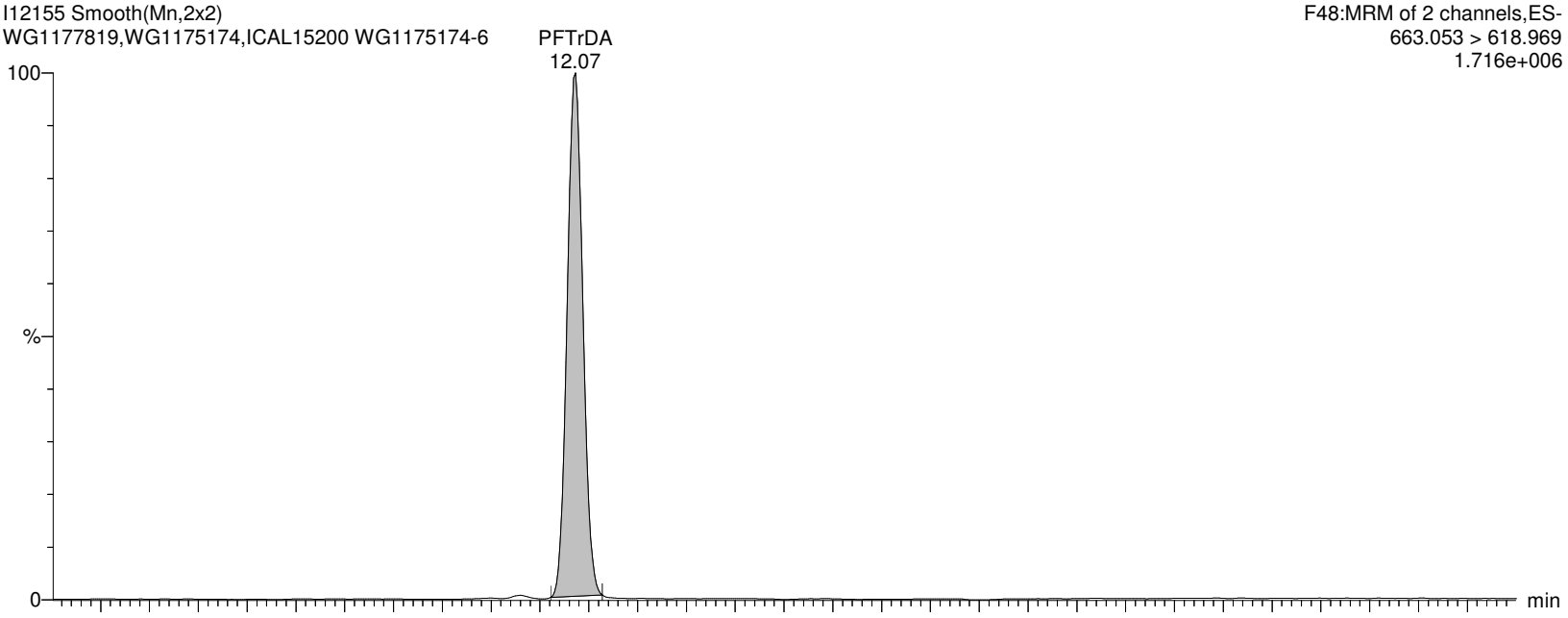

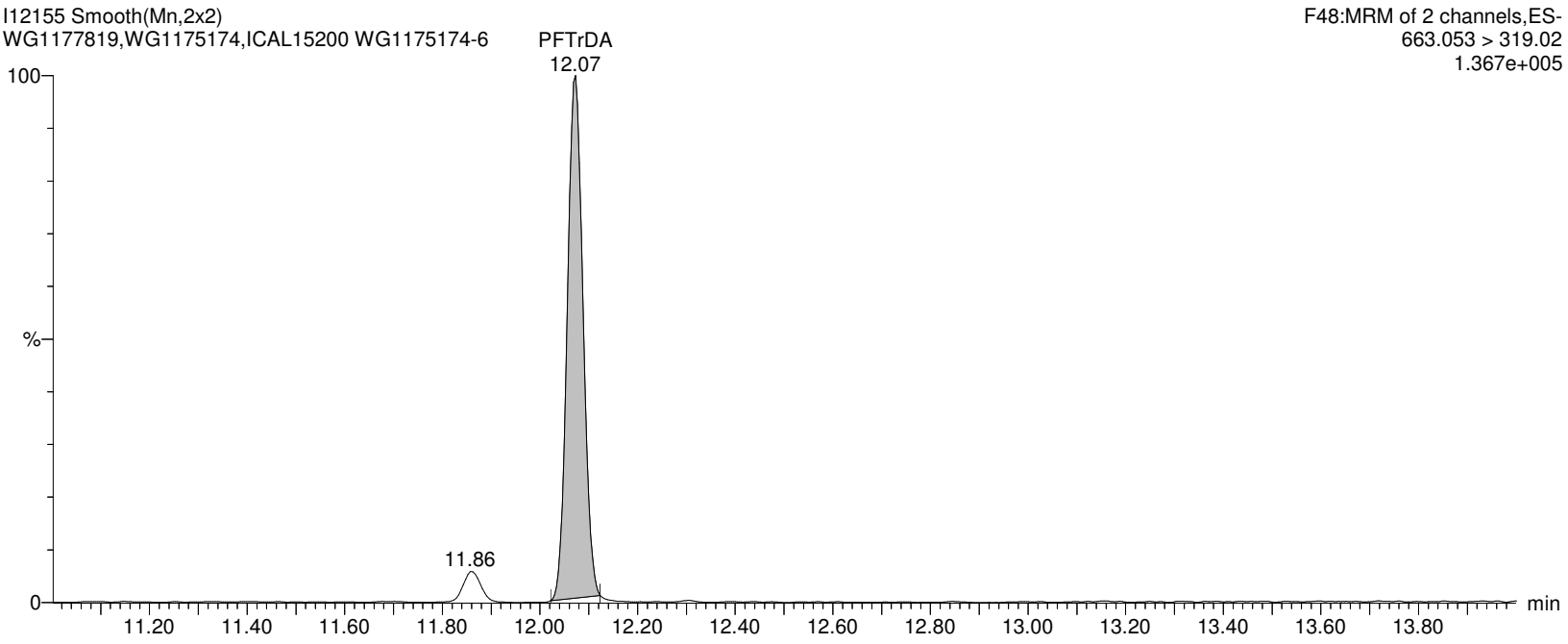

all concentration units in (ng/mL)

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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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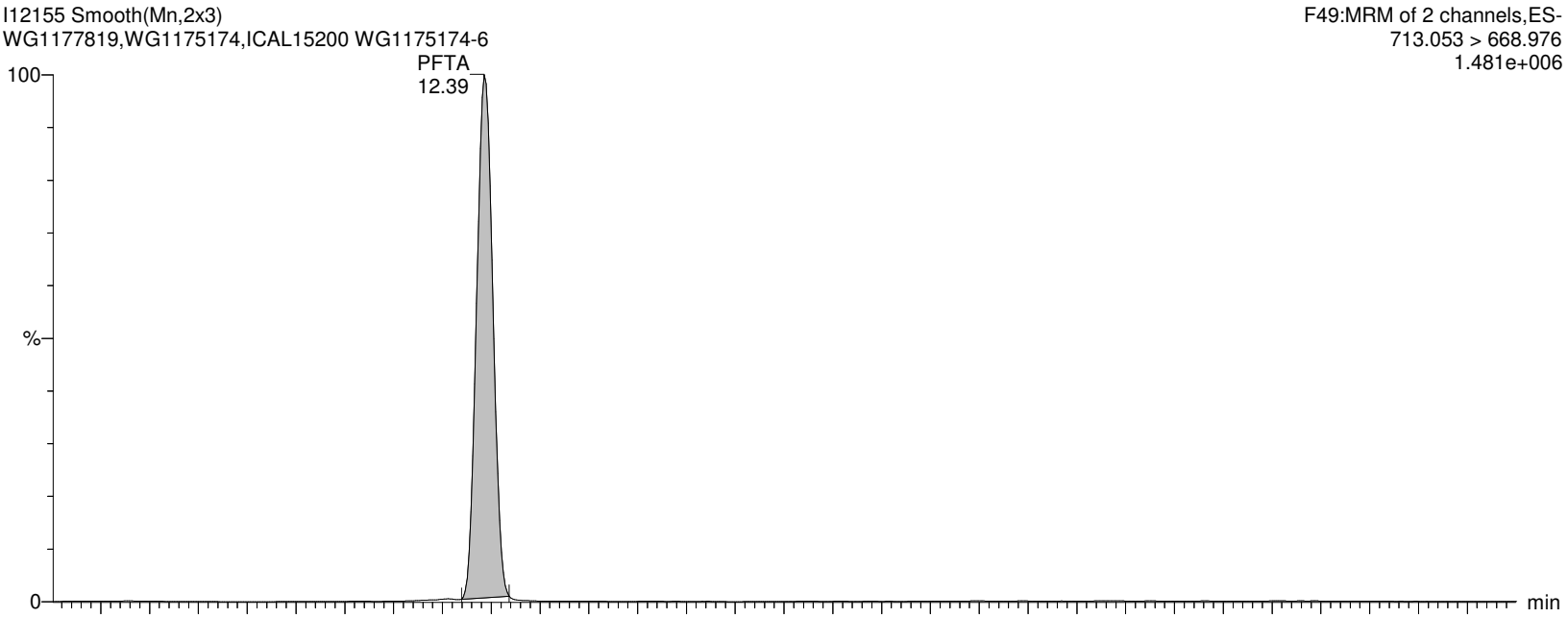

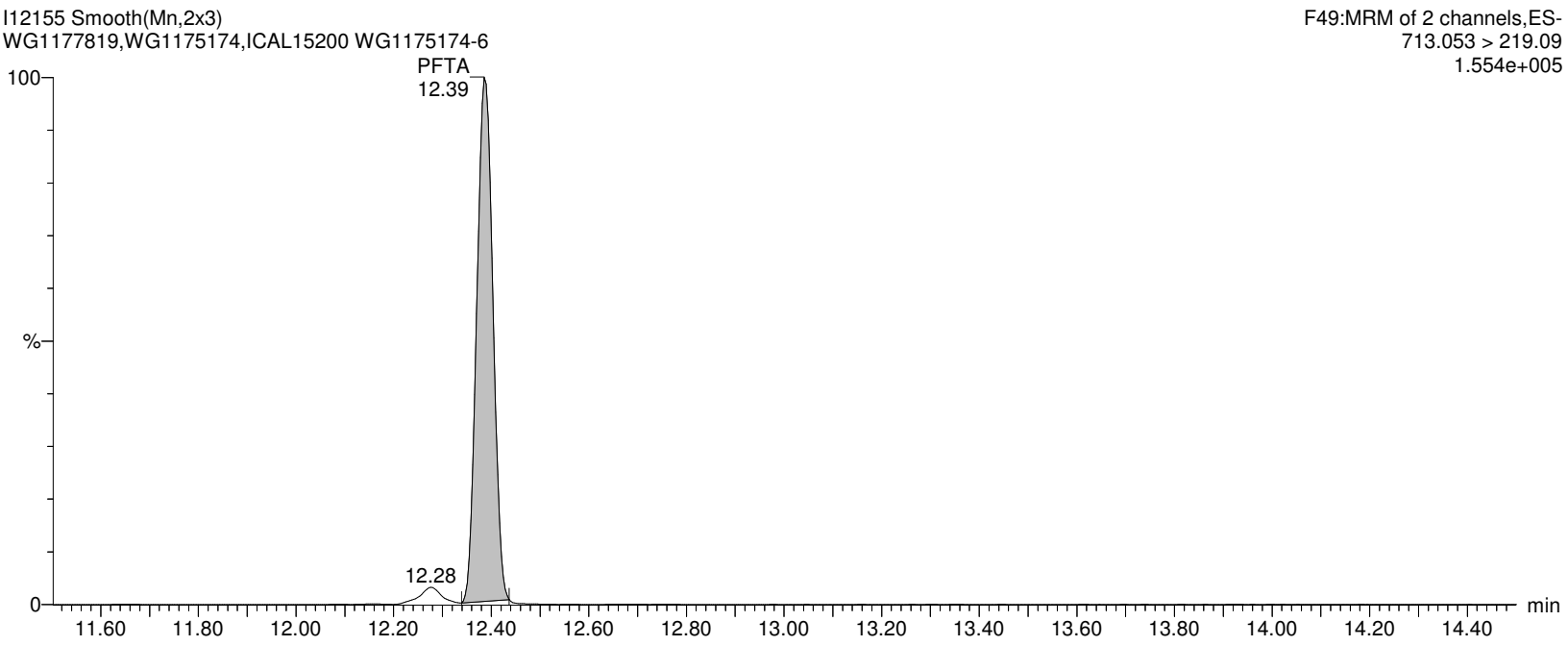

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:58 Eastern Standard Time

Name: I12155
ID: WG1175174-6
Date: 10-Nov-2018
Time: 07:41:33
Description: WG1177819,WG1175174,ICAL15200
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Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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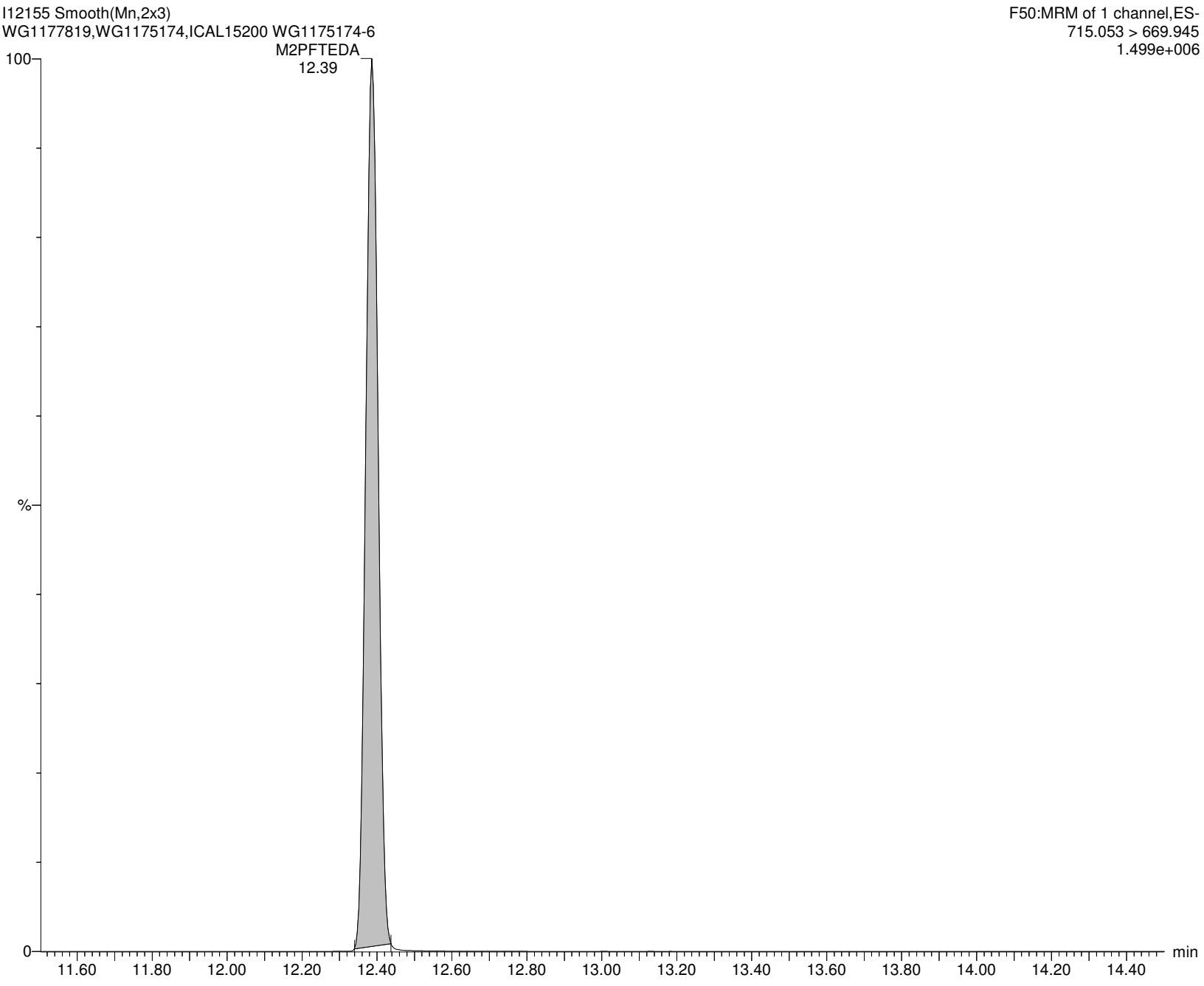

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181112_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181112_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1175174-8R
Name: I12206
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.02	212.926 > 169.111	97515		25.783		na	
2	M3PFBA	INT STD	2.02	215.926 > 172.122	43847		4.737		na	47.4
3	MPFBA	INT STD	2.01	216.926 > 172.137	43267		10.388		na	103.9
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	136517		29.960		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	48348		8.995		na	90.0
6	PFBS	375-73-5	5.66	298.989 > 80.295	15304		15.521		na	
7	M3PFBS	INT STD	5.66	301.989 > 80.254	11122		9.580		na	95.8
8	4:2FTS	757124-72-4	6.84	326.926 > 306.957	13306		10.847	2.07	YES	
9	M2-4:2FTS	INT STD	6.84	329.117 > 309.079	12467		17.312		na	173.1
10	PFHxA	307-24-4	6.92	312.989 > 269.028	263817		39.293	20.01	NO	
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	69184		7.120		na	71.2
12	PFPeS	2706-91-4	7.24	348.926 > 80.251	21639		15.254	2.01	NO	
13	PFHpA	375-85-9	8.18	362.926 > 319.014	550830		53.665	5.35	NO	
14	M4PFHpA	INT STD	8.18	366.926 > 321.979	104262		9.125		na	91.3
15	br-PFHxS	355-46-4	8.11	398.926 > 80.295	10359		7.763	1.96	NO	
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	61764		53.421	1.49	NO	
17	PFHxS	355-46-4		398.926 > 80.295	72122		61.185		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	8199		12.716		na	127.2
19	br-PFOA	335-67-1	8.90	412.989 > 368.9	125189		11.583	2.28	YES	
20	L-PFOA	335-67-1	9.12	412.989 > 368.9	616453		57.036	9.14	NO	
21	M2PFOA	INT STD	9.12	415.032 > 369.968	134880		7.144		na	71.4
22	PFOA	335-67-1		412.989 > 368.9	741641		68.619		na	
23	M8PFOA	INT STD	9.12	420.989 > 375.979	110781		10.185		na	101.8
24	6:2FTS	27619-97-2	9.08	426.989 > 406.921	13476		14.475		na	
25	M2-6:2FTS	INT STD	9.08	428.989 > 408.917	9661		16.162		na	161.6
26	PFHpS	375-92-8	9.22	448.926 > 80.257	8788		15.340	0.88	YES	
27	PFNA	375-95-1	9.87	462.989 > 418.931	121087		12.471	4.53	NO	
28	M9PFNA	INT STD	9.87	472.053 > 426.947	116256		10.716		na	107.2
29	br-PFOS	1763-23-1	9.68	498.989 > 80.294	119462		88.089	4.64	YES	
30	L-PFOS	1763-23-1	9.93	498.989 > 80.294	136982		141.740	1.75	YES	
31	PFOS	1763-23-1		498.989 > 80.294	256444		229.829		na	
32	M4PFOS	INT STD	9.93	503.032 > 80.306	9313		5.749		na	57.5
33	M8PFOS	INT STD	9.92	507.053 > 80.294	9253		10.654		na	106.5
34	PFDA	335-76-2	10.49	513.053 > 468.906	119289		12.223	6.03	NO	
35	M2PFDA	INT STD	10.49	515.053 > 469.934	121073		8.144		na	81.4
36	M6PFDA	INT STD	10.49	519.053 > 473.931	110017		10.064		na	100.6
37	8:2FTS	39108-34-4	10.48	526.989 > 506.946	6298		11.096		na	
38	M2-8:2FTS	INT STD	10.48	529.053 > 508.945	4733		13.485		na	134.8
39	PFNS	68259-12-1	10.52	548.989 > 80.249	9537		9.241	1.26	NO	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

ID: WG1175174-8R
Name: I12206
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.89	573.096 > 418.987	9182		7.791		na	77.9
41	NMeFOSAA	2355-31-9	10.90	570.053 > 418.917	9909		10.729		na	
42	PFUnA	2058-94-8	11.04	562.989 > 518.903	109673		10.643	8.05	NO	
43	M7-PFUDA	INT STD	11.04	570.053 > 524.923	103710		11.334		na	113.3
44	PFDS	335-77-3	11.05	598.926 > 80.314	7794		8.535	1.16	NO	
45	FOSA	754-91-6	10.99	497.989 > 78.245	12112		12.706		na	
46	M8FOSA	INT STD	10.99	506.053 > 78.286	9746		2.499		na	25.0
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	9885		8.696		na	87.0
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	13117		12.978	2.45	YES	
49	PFDoA	307-55-1	11.54	612.989 > 568.967	100533		11.477	14.58	NO	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	93937		9.137		na	91.4
51	PFTrDA	72629-94-8	11.95	663.053 > 618.969	72226		9.805	12.27	NO	
52	PFTA	376-06-7	12.31	713.053 > 668.976	65413		12.501	10.10	NO	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	62320		8.184		na	81.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
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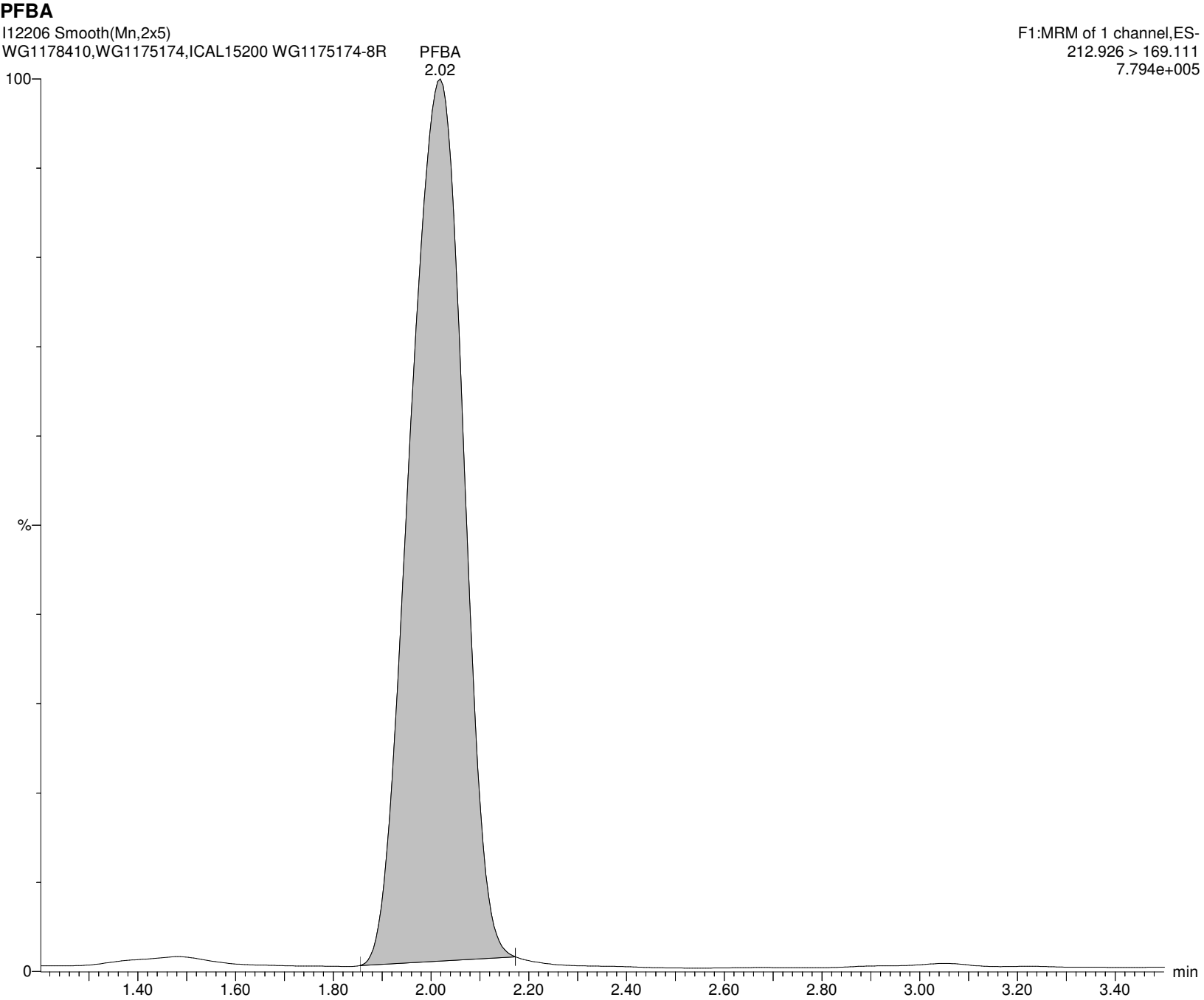
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181112_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181112_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

Name: I12206
ID: WG1175174-8R
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:E,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

Name: I12206
ID: WG1175174-8R
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:E,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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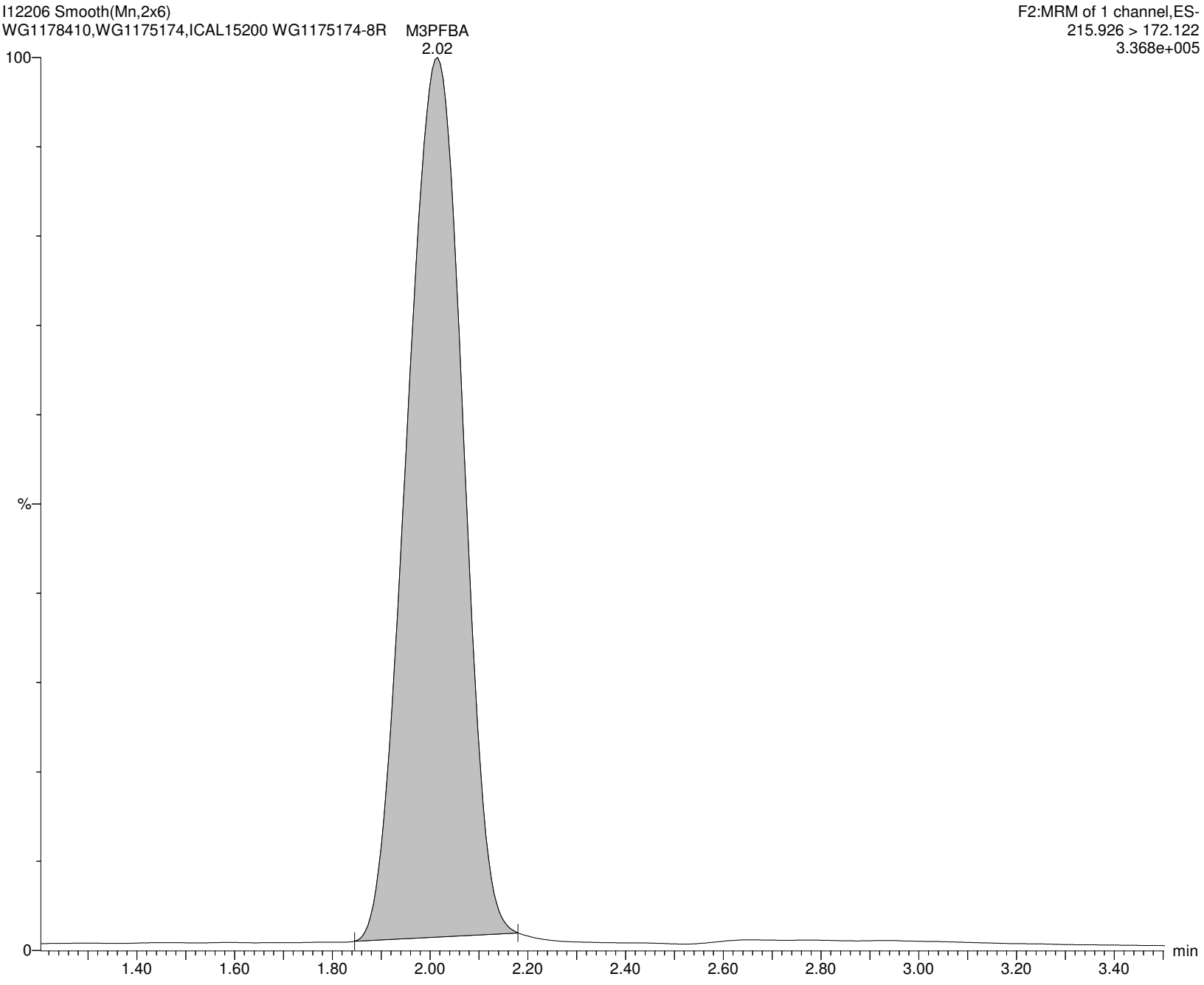
M3PFBA



all concentration units in (ng/mL)

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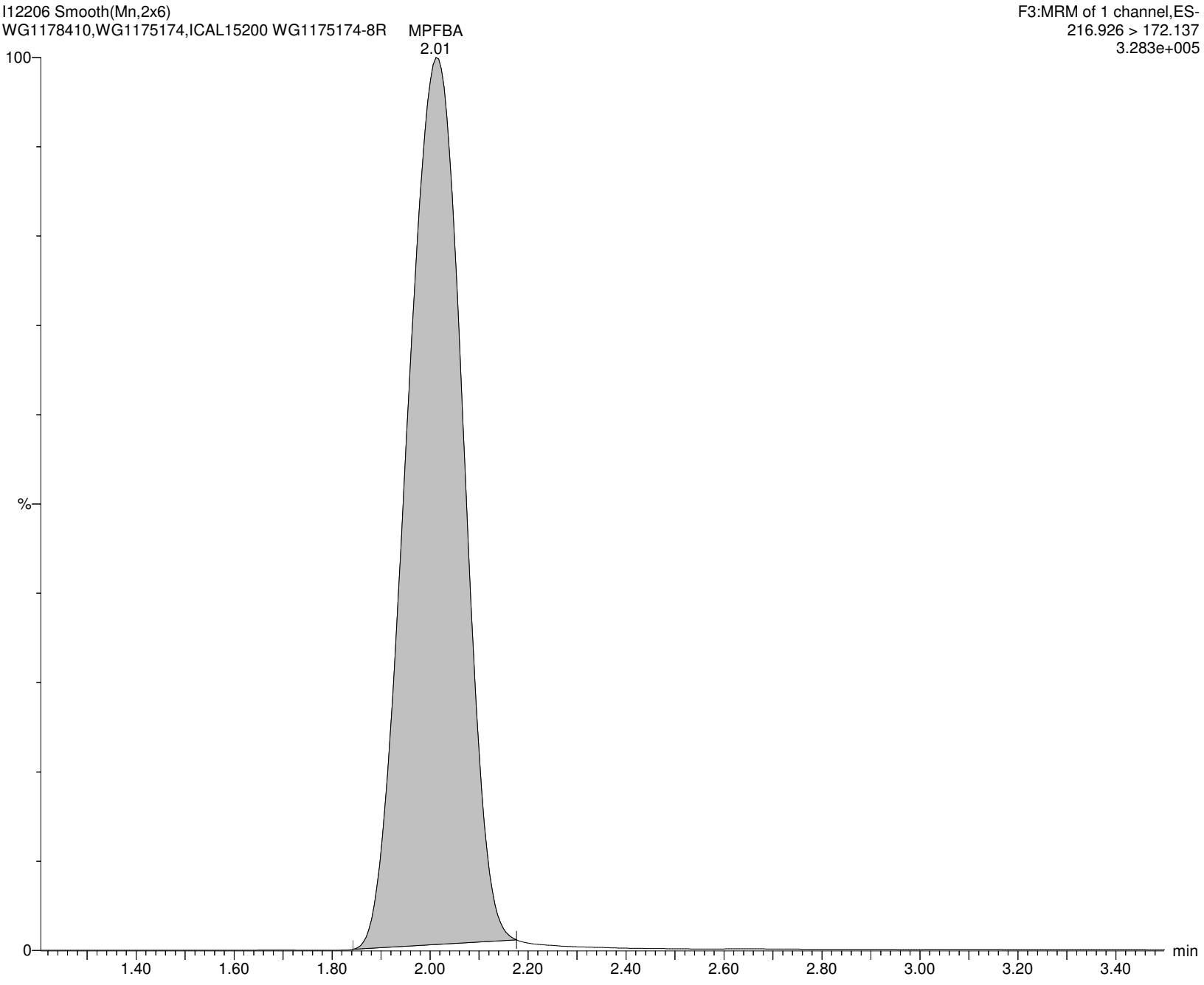

all concentration units in (ng/mL)

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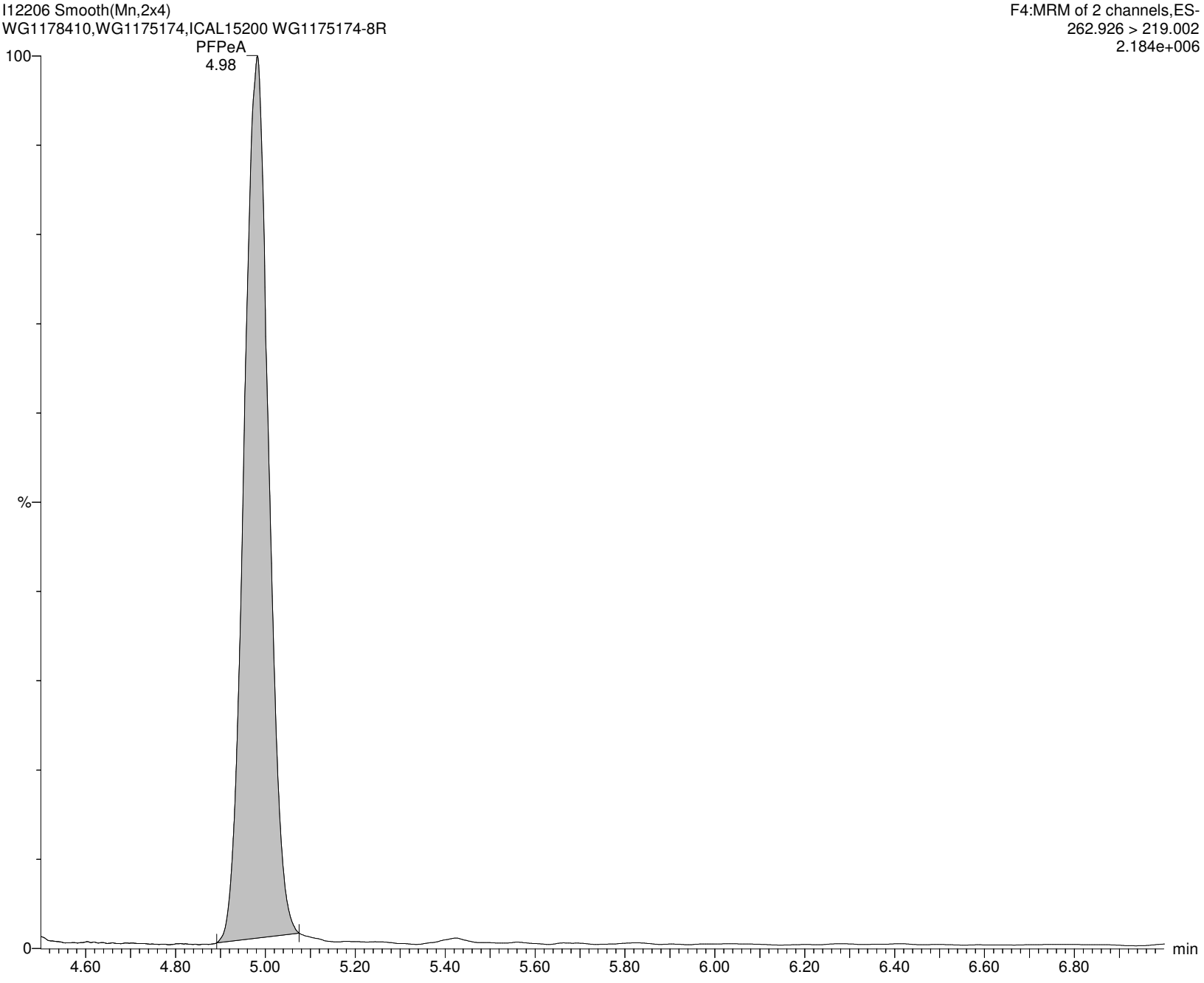

all concentration units in (ng/mL)

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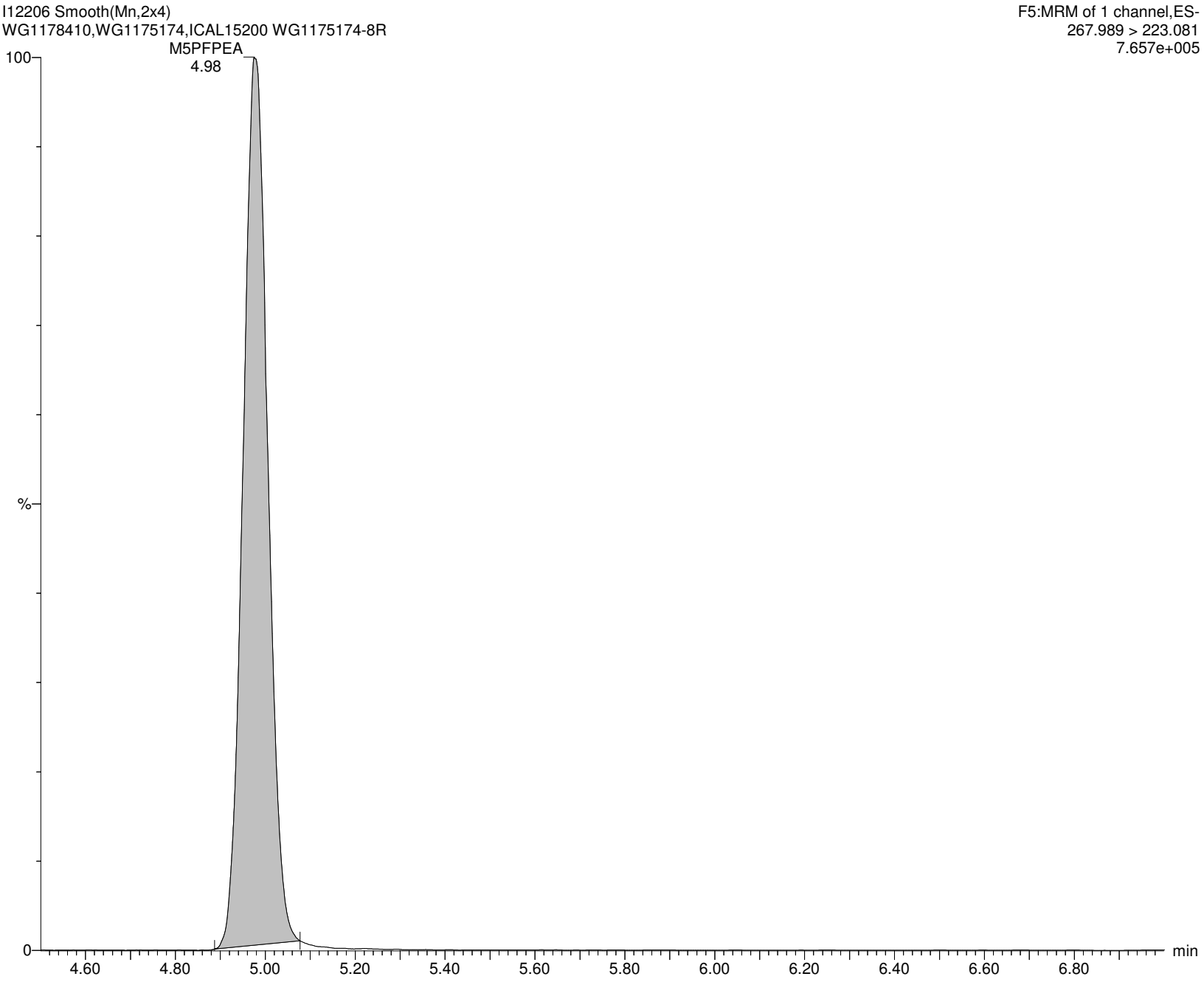

all concentration units in (ng/mL)

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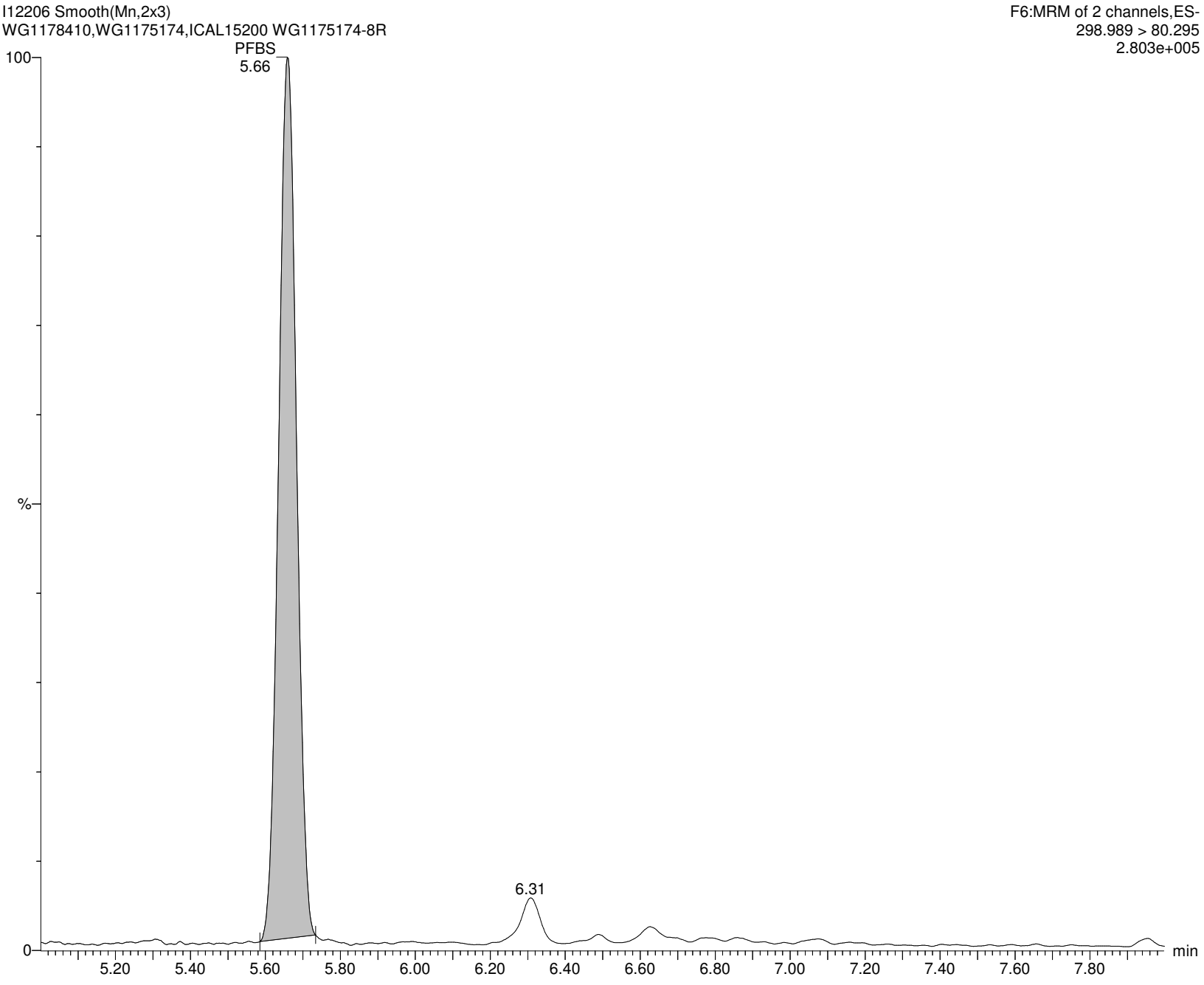

all concentration units in (ng/mL)

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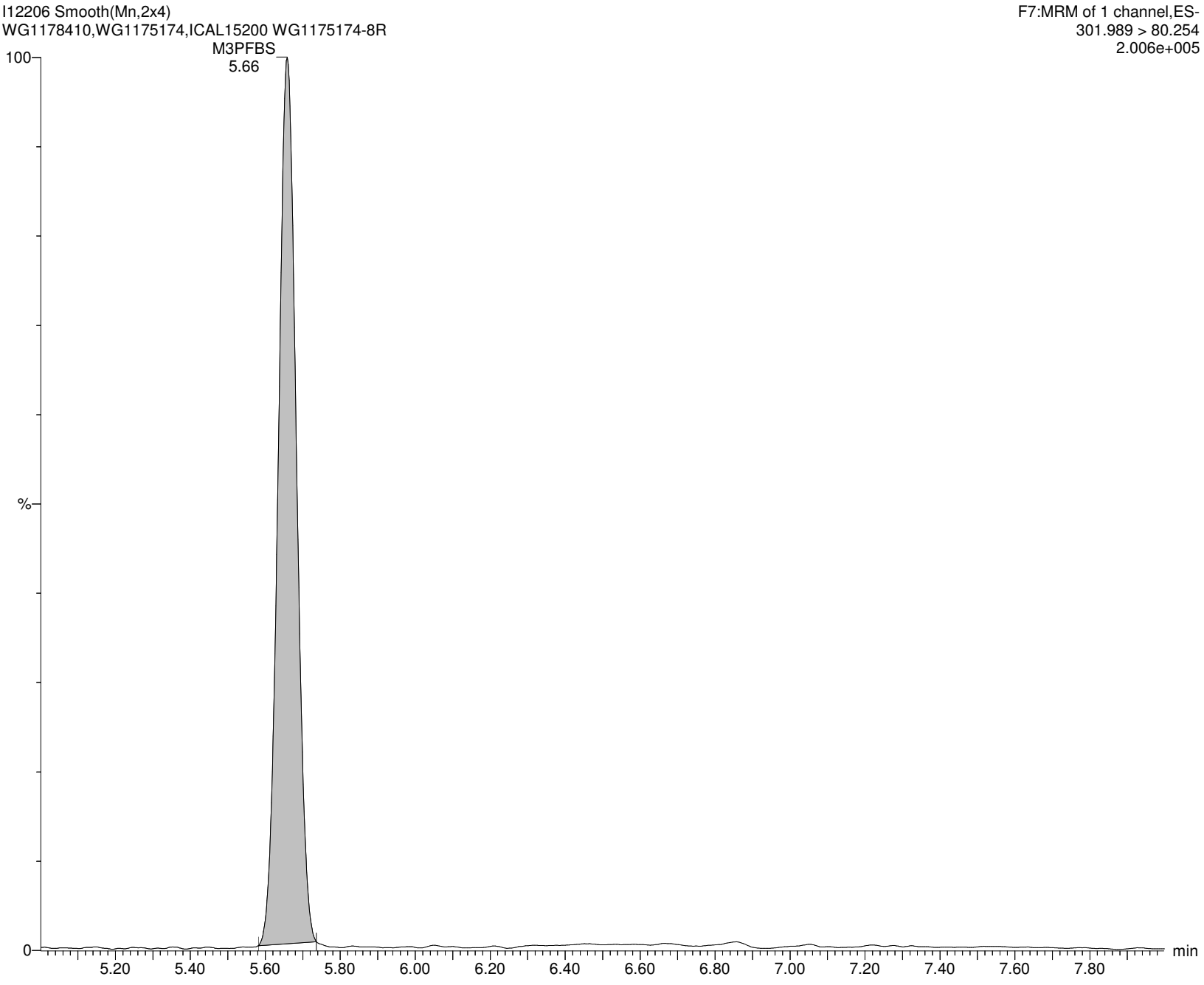

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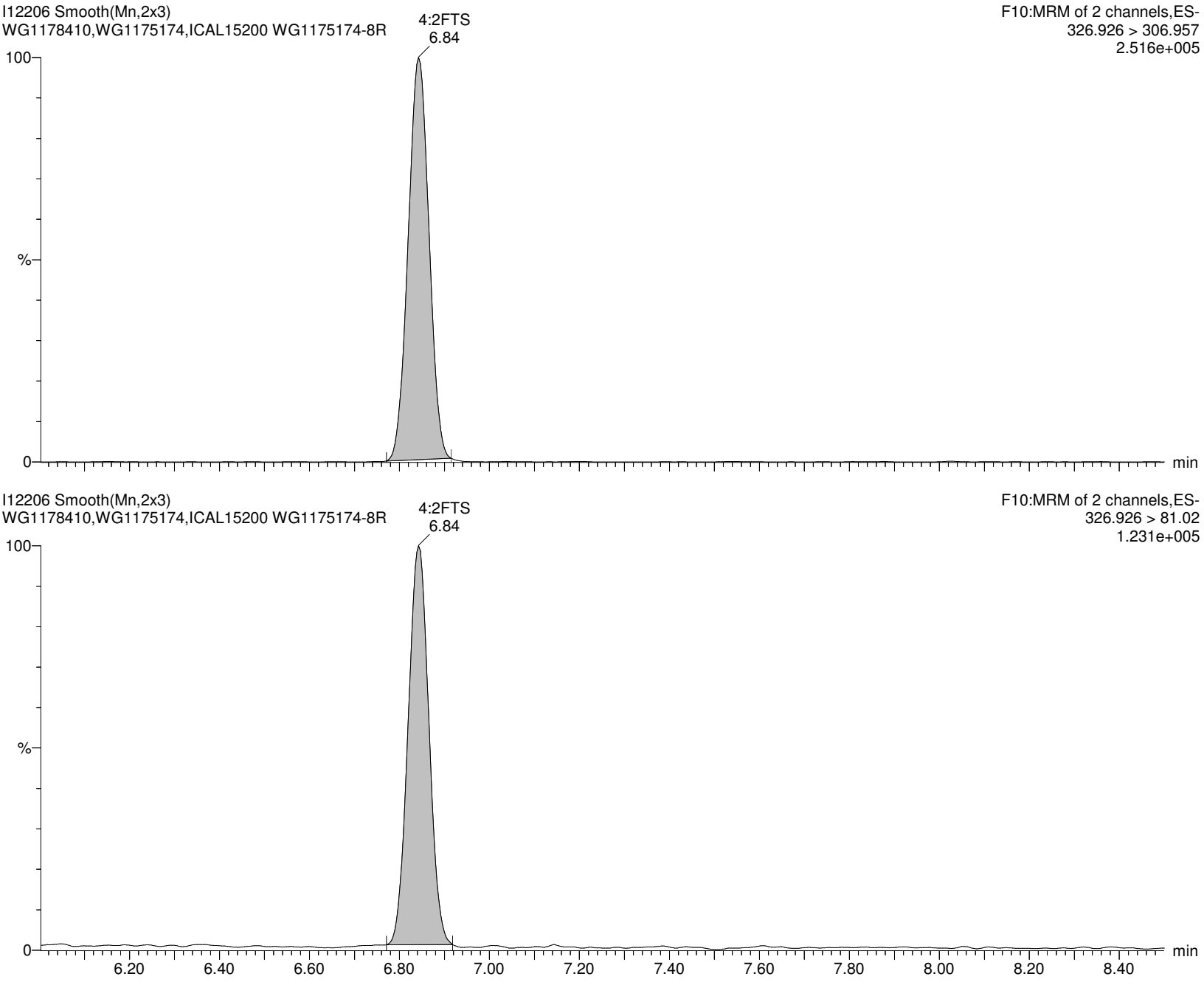
4:2FTS



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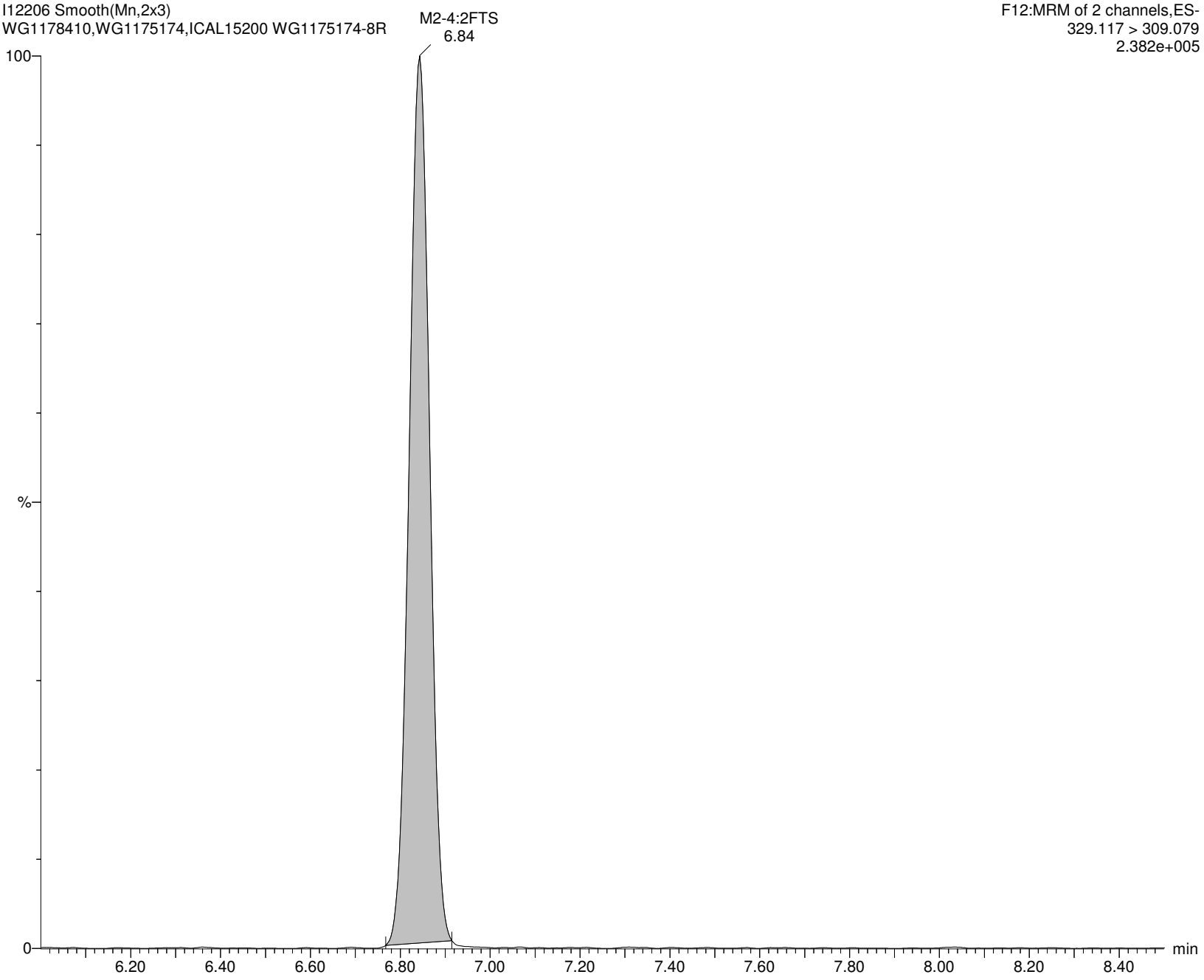
M2-4:2FTS



all concentration units in (ng/mL)

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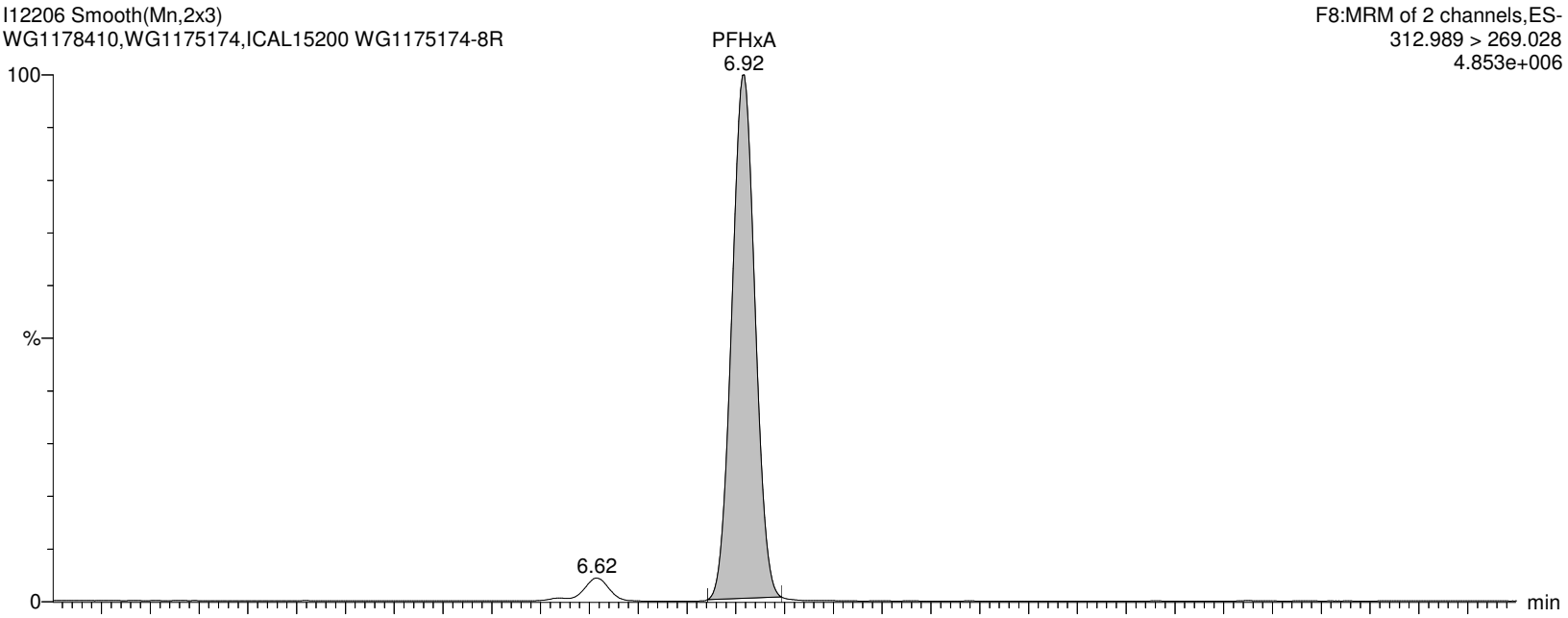

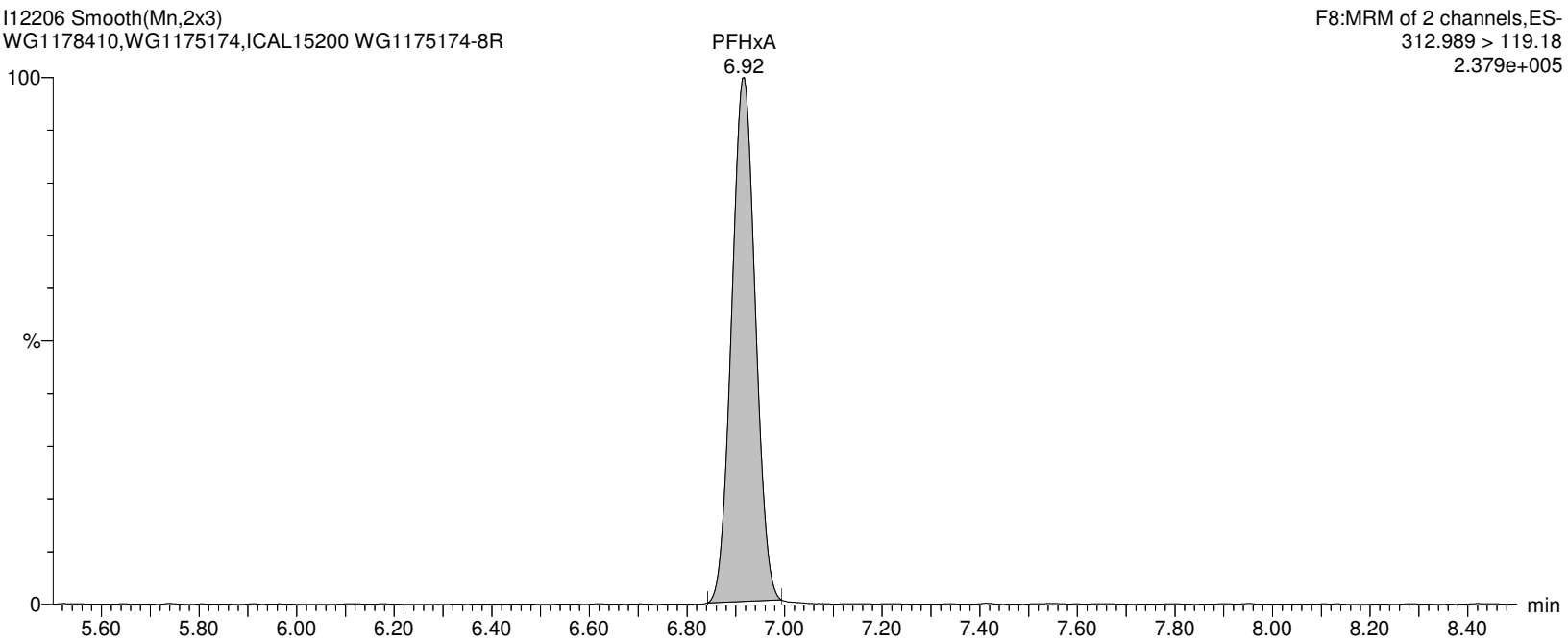

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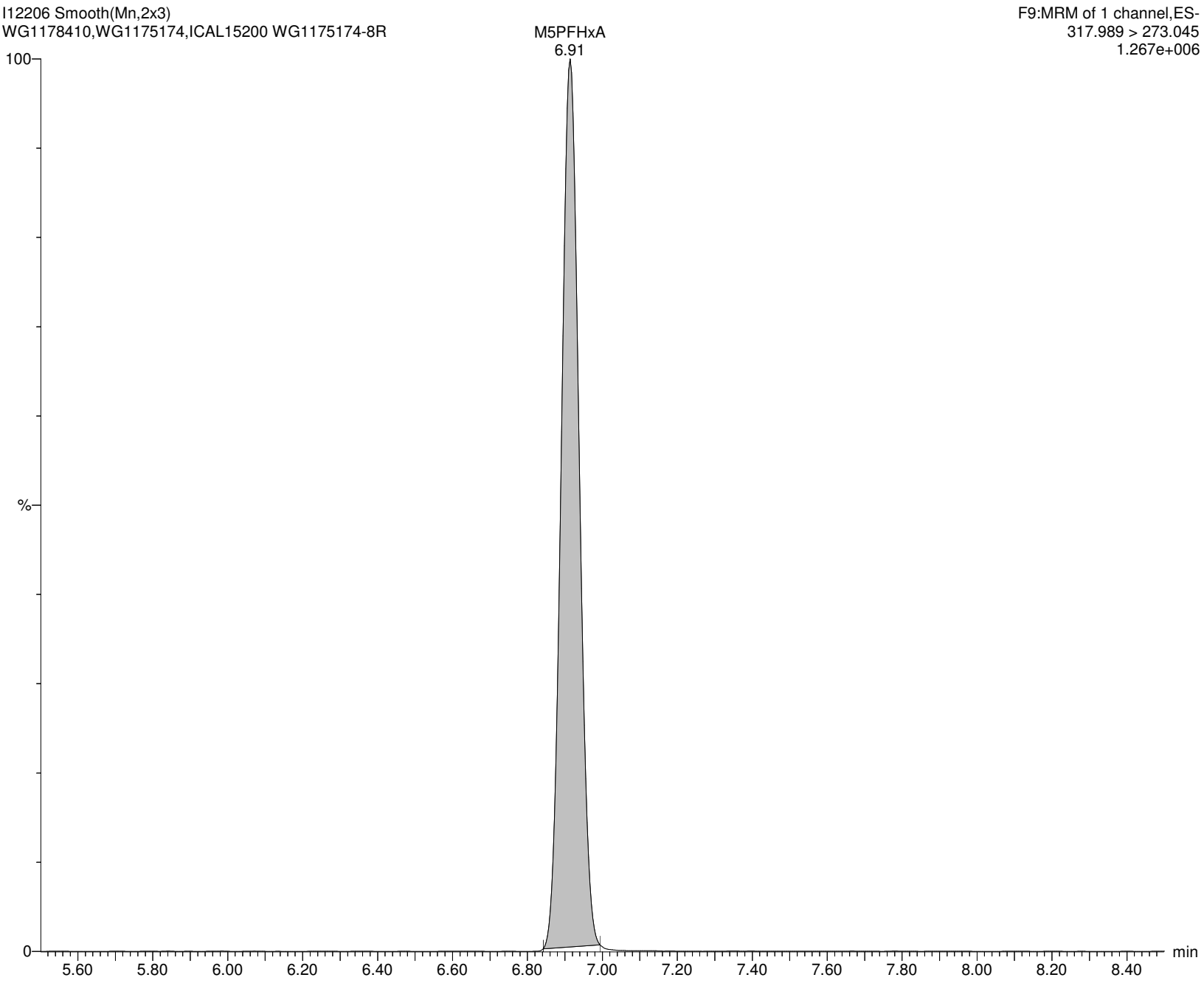

all concentration units in (ng/mL)

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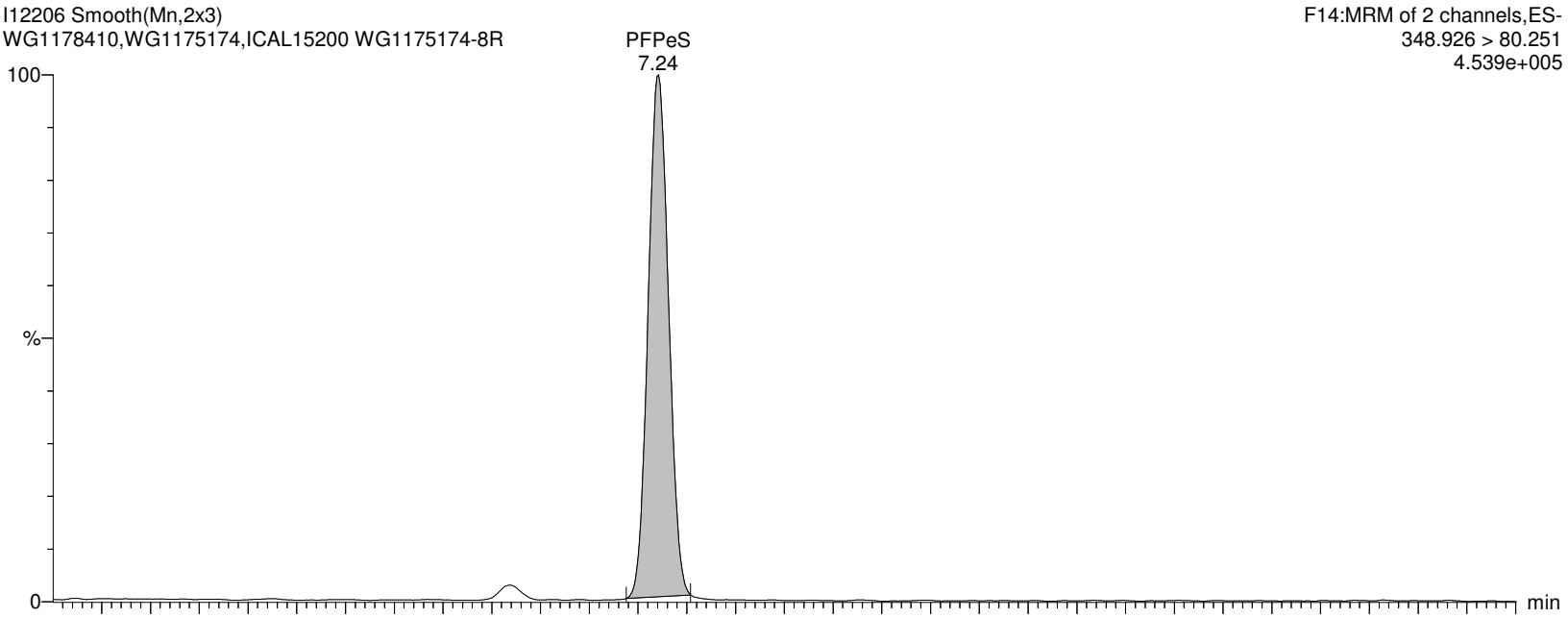

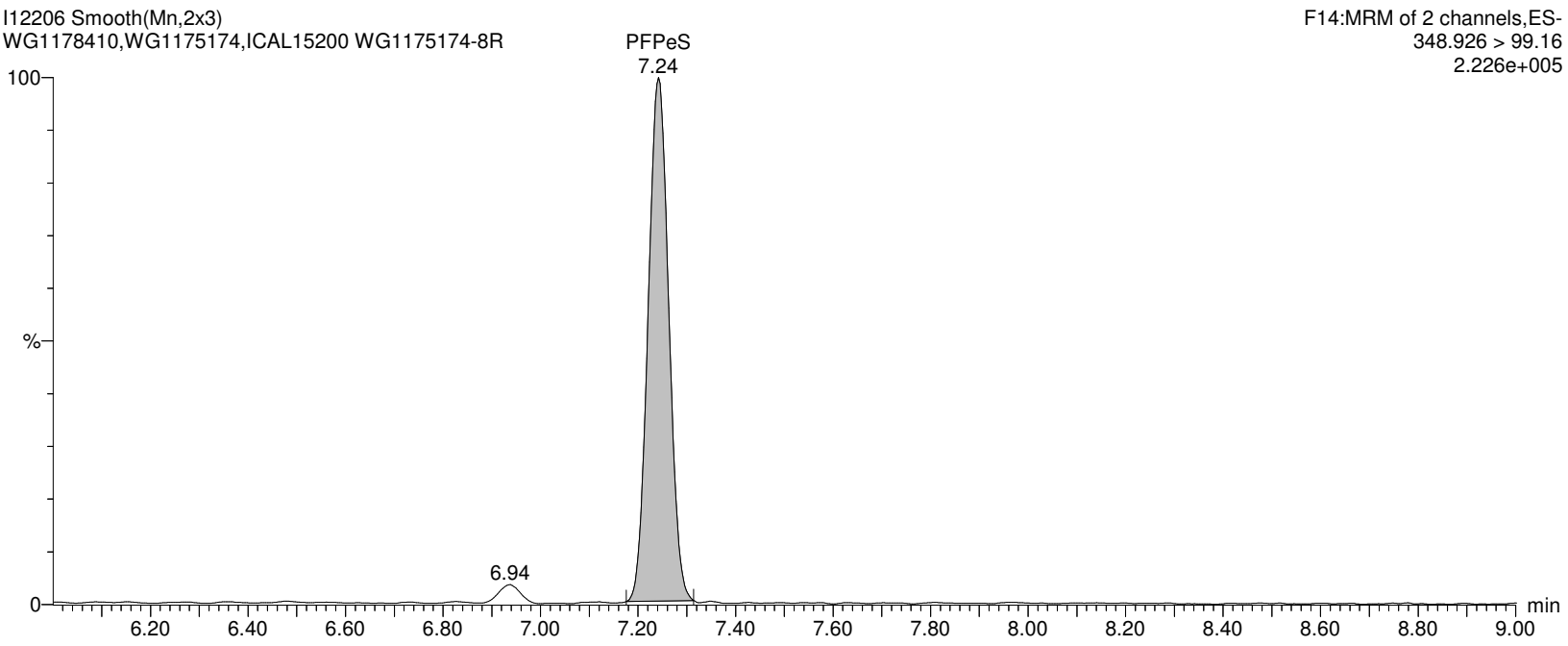

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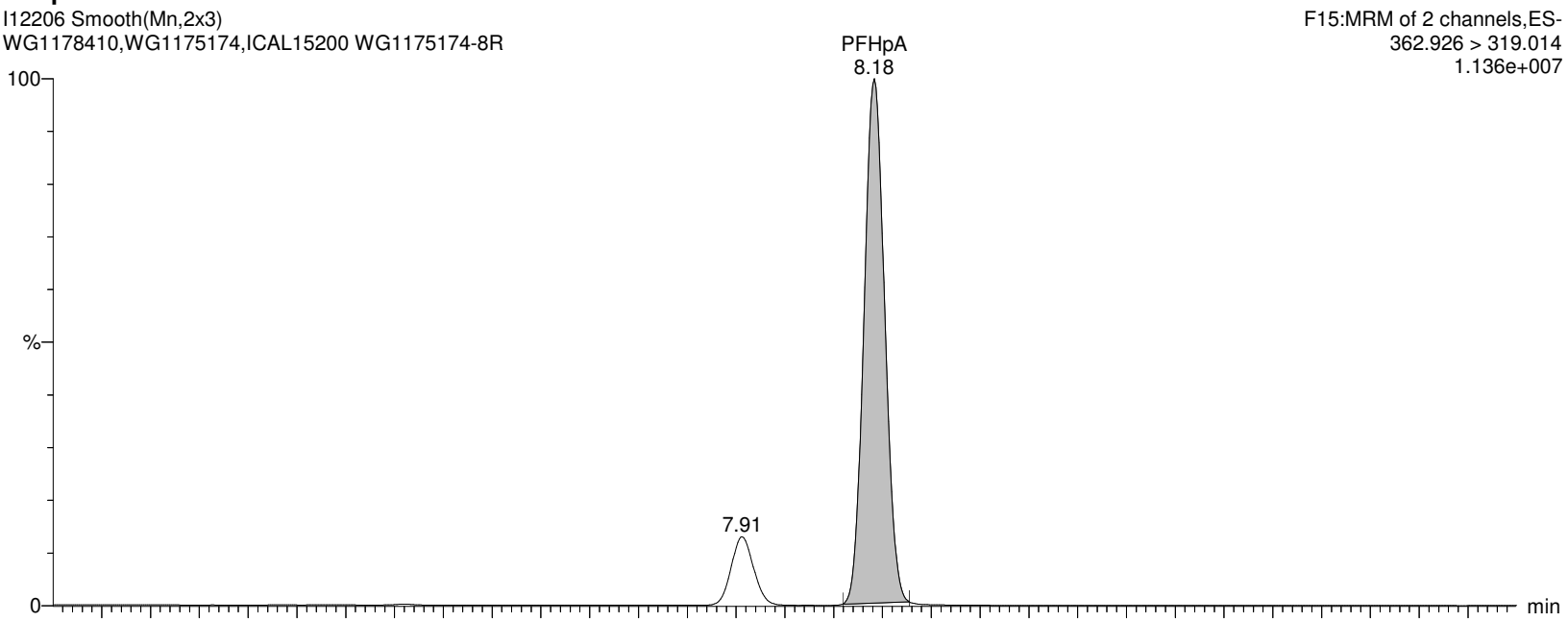

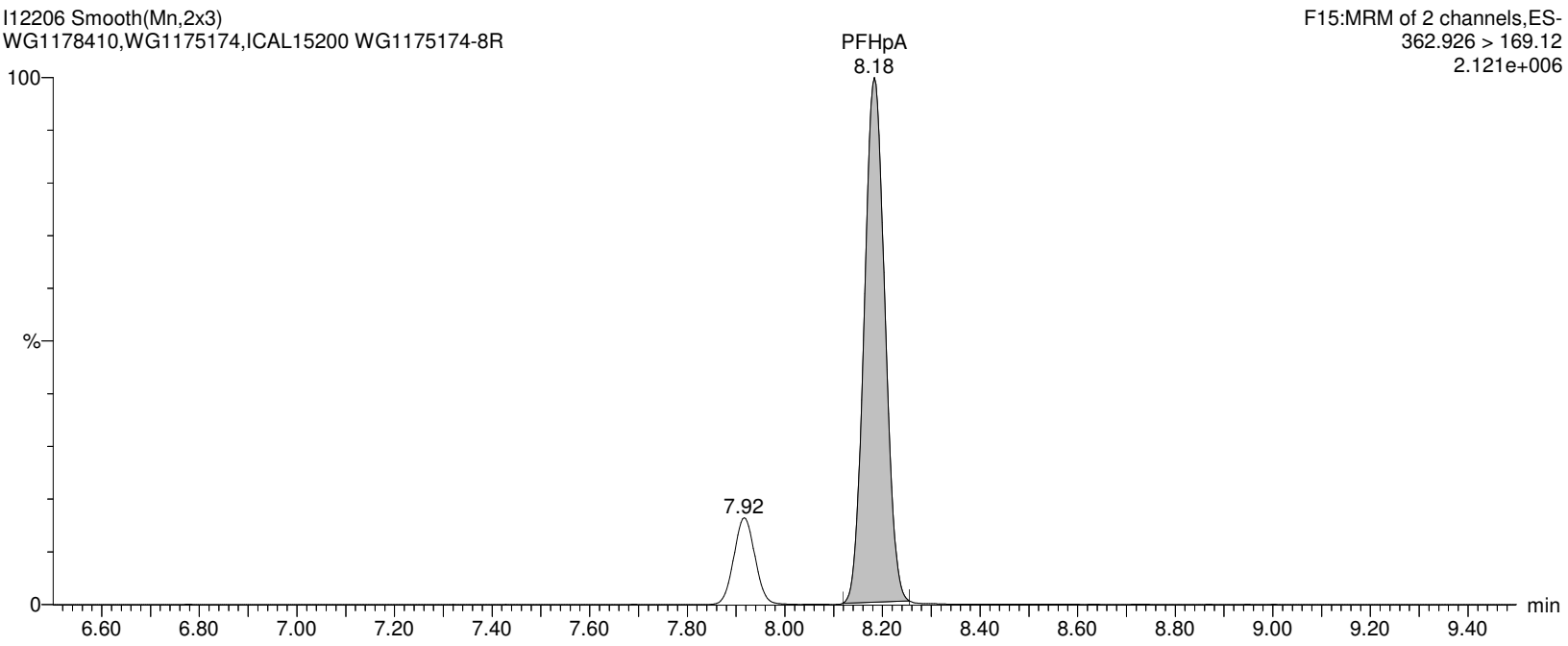

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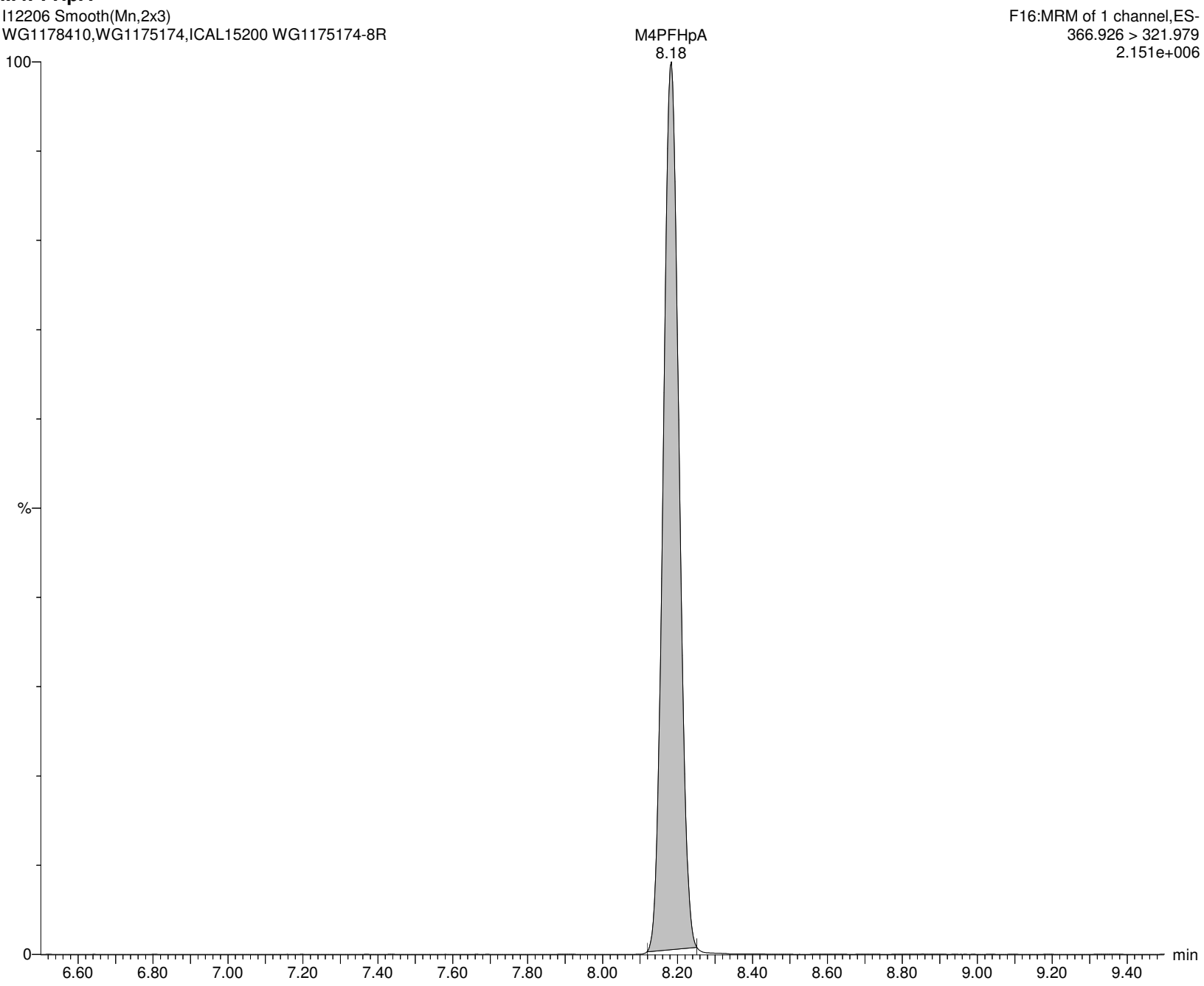

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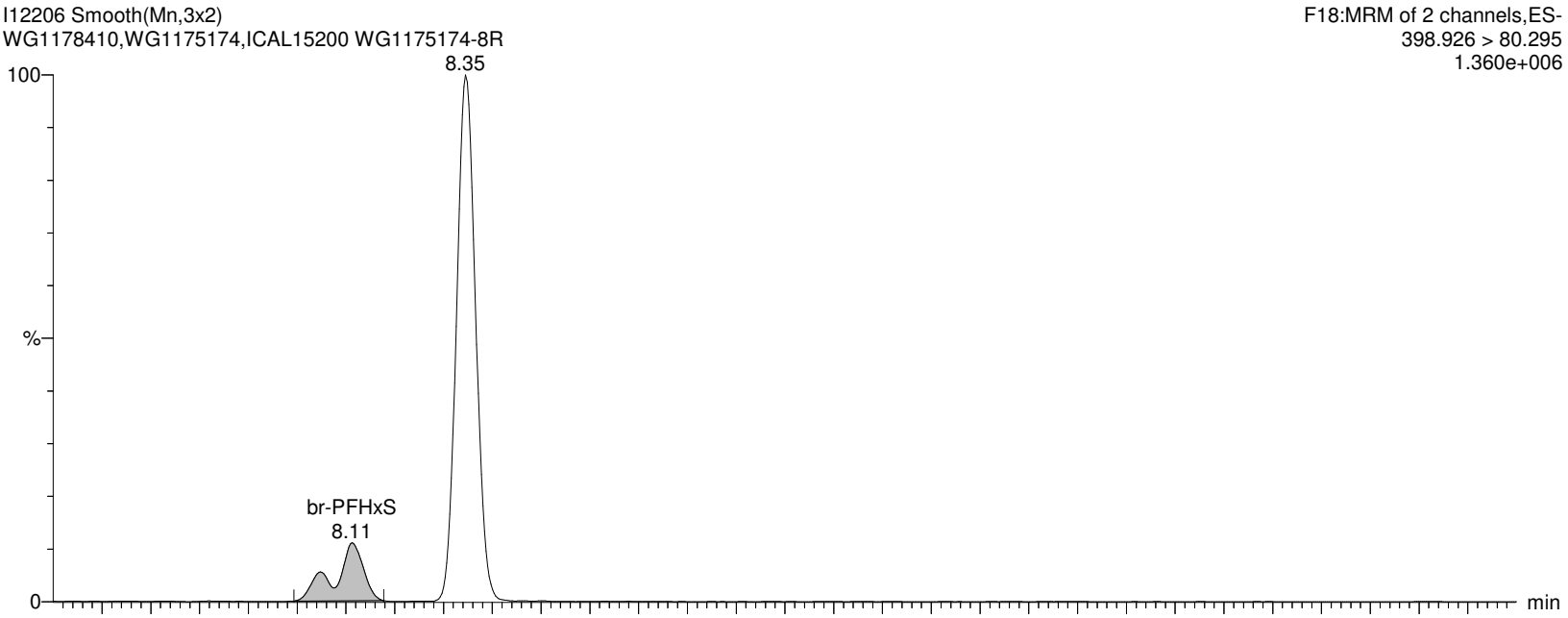

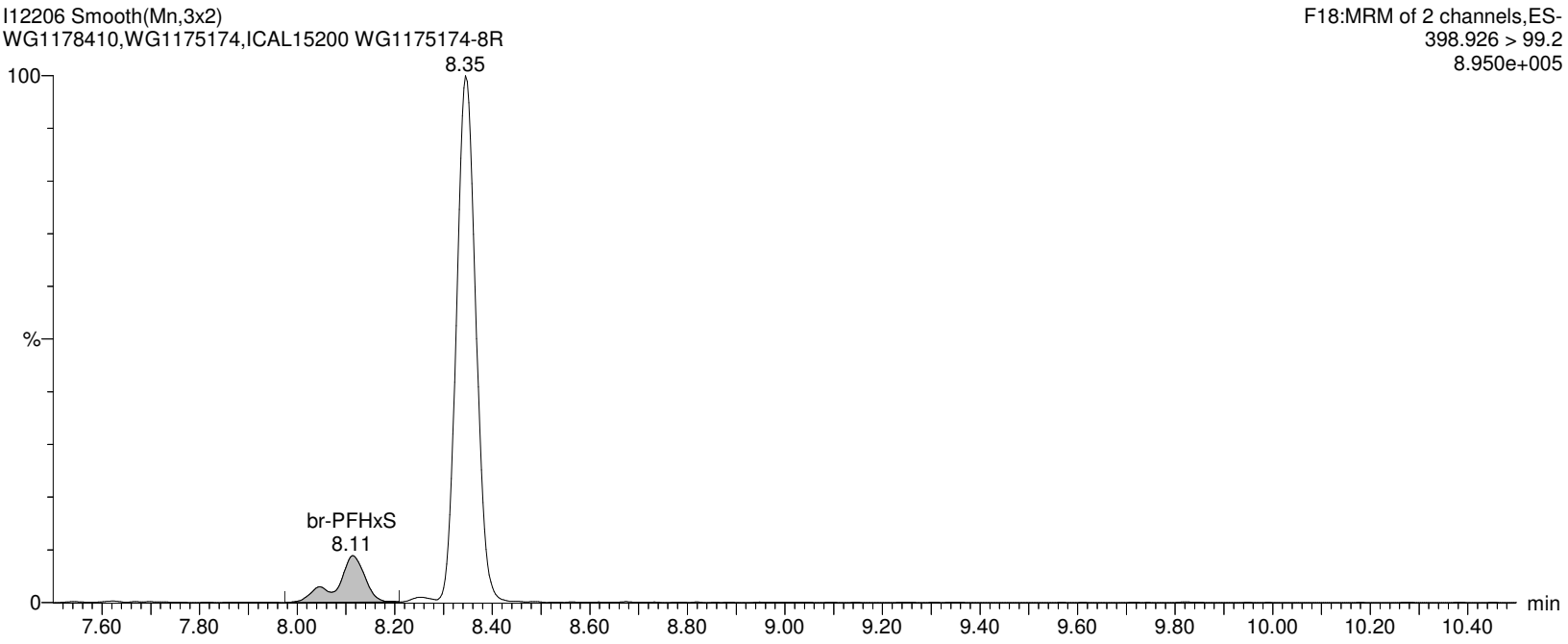

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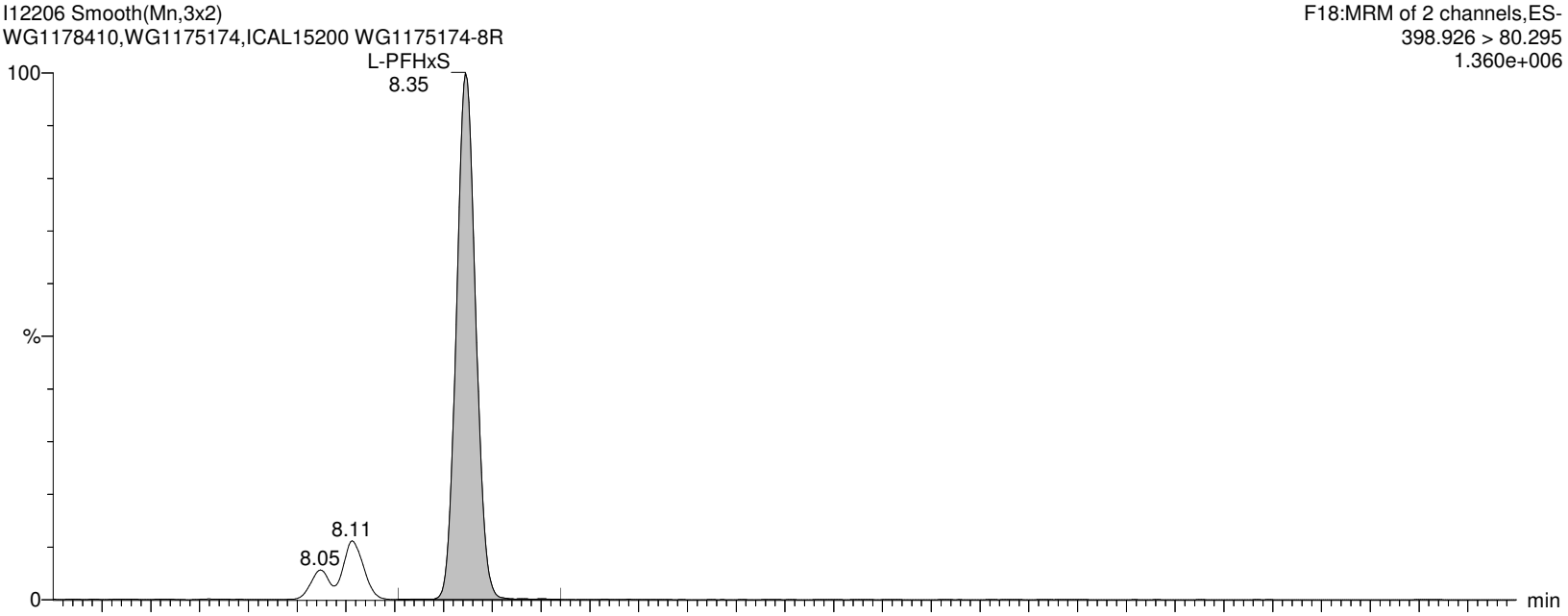
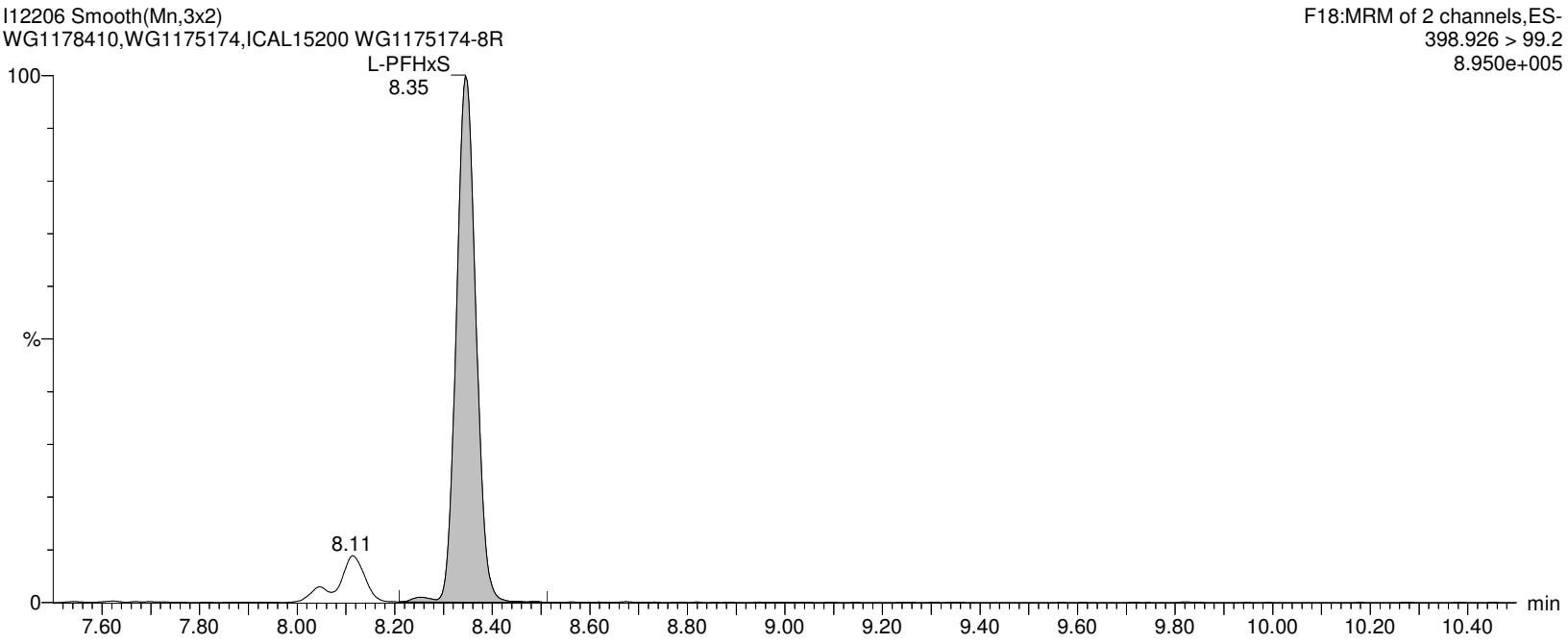
L-PFHxS





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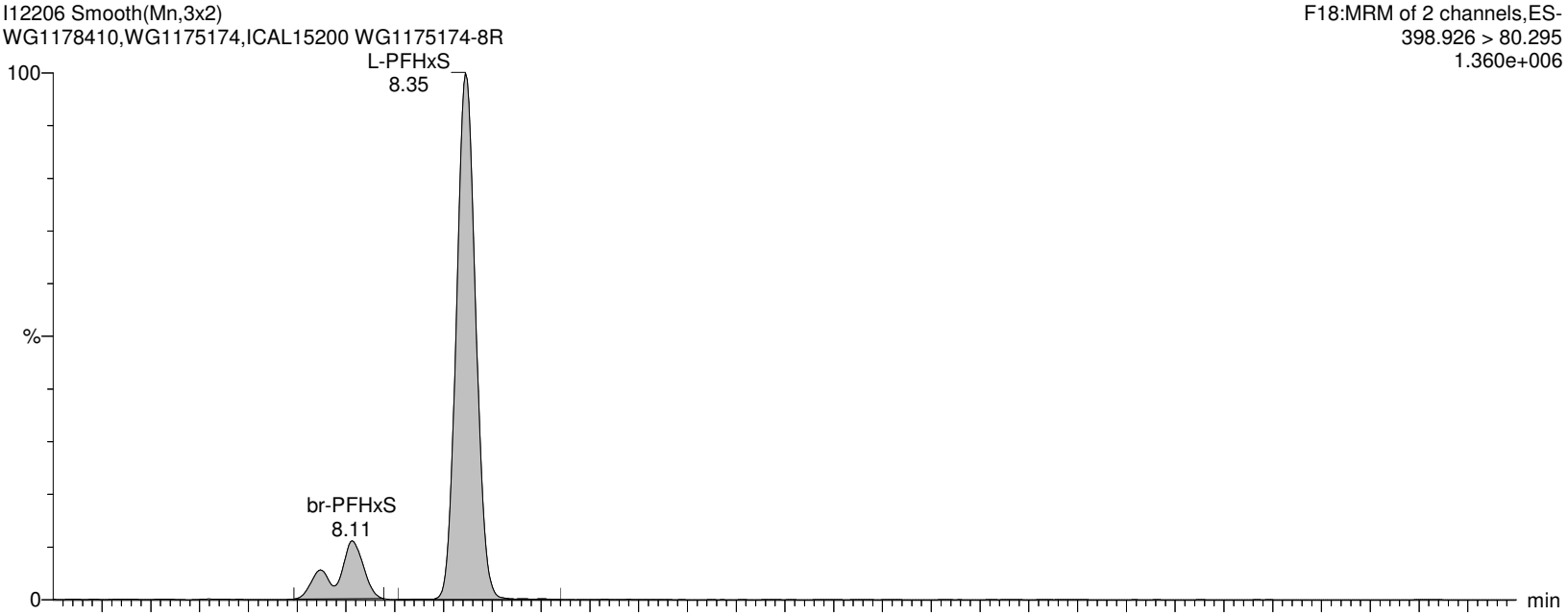

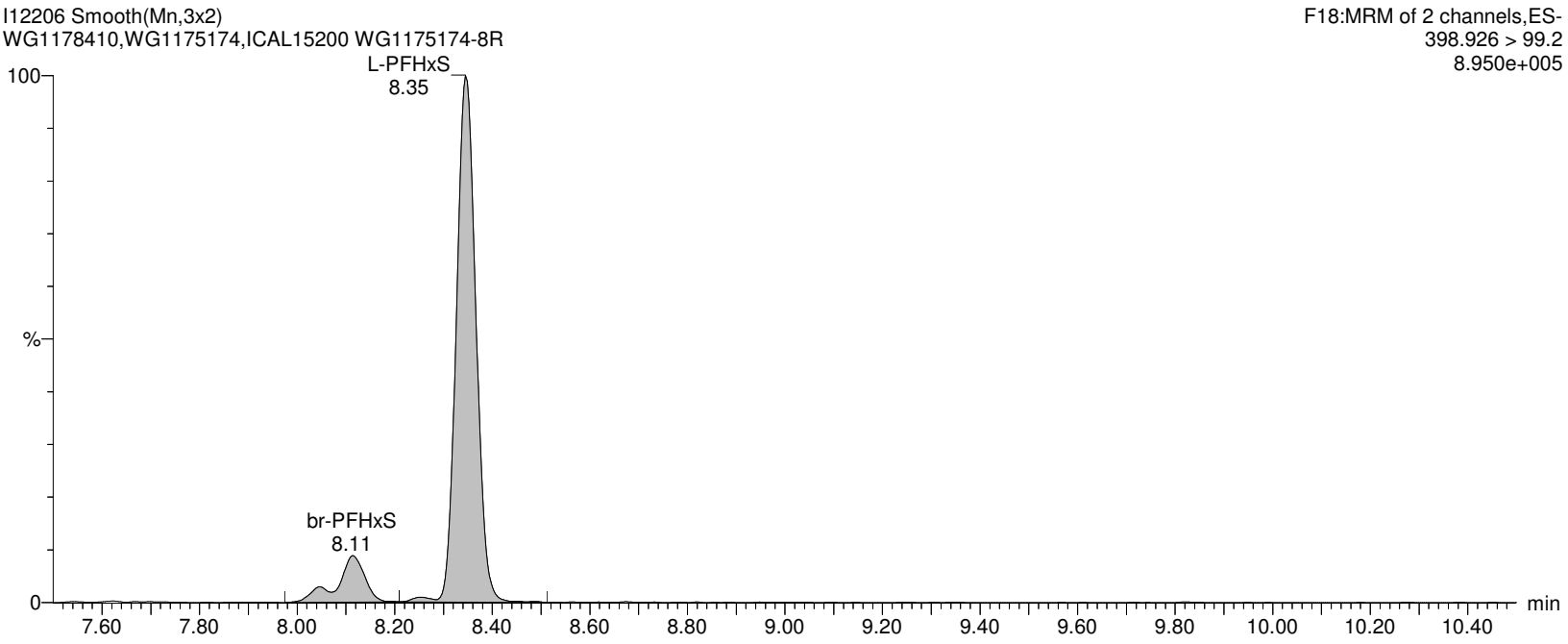

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
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Name: I12206
ID: WG1175174-8R
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:E,8
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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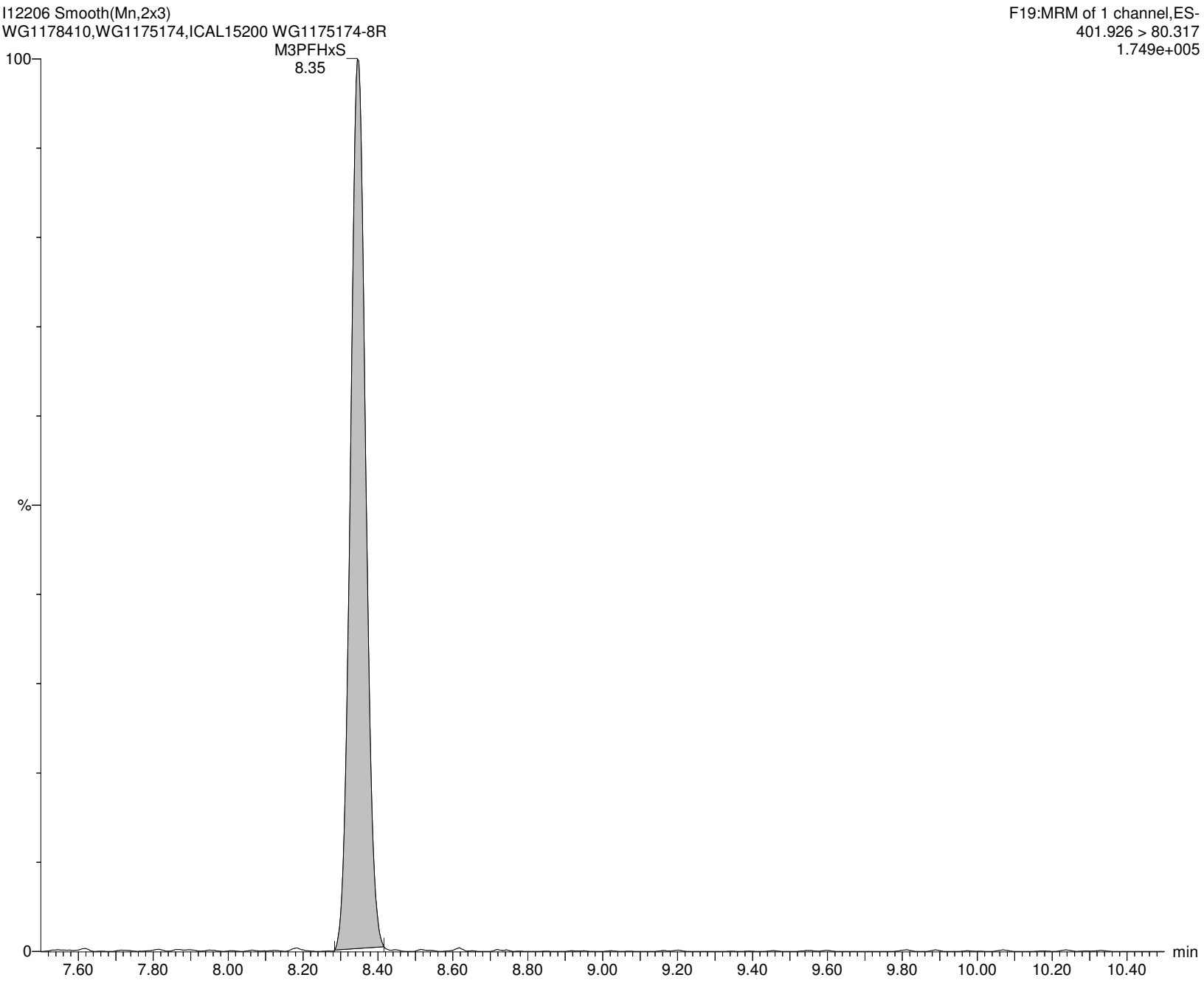

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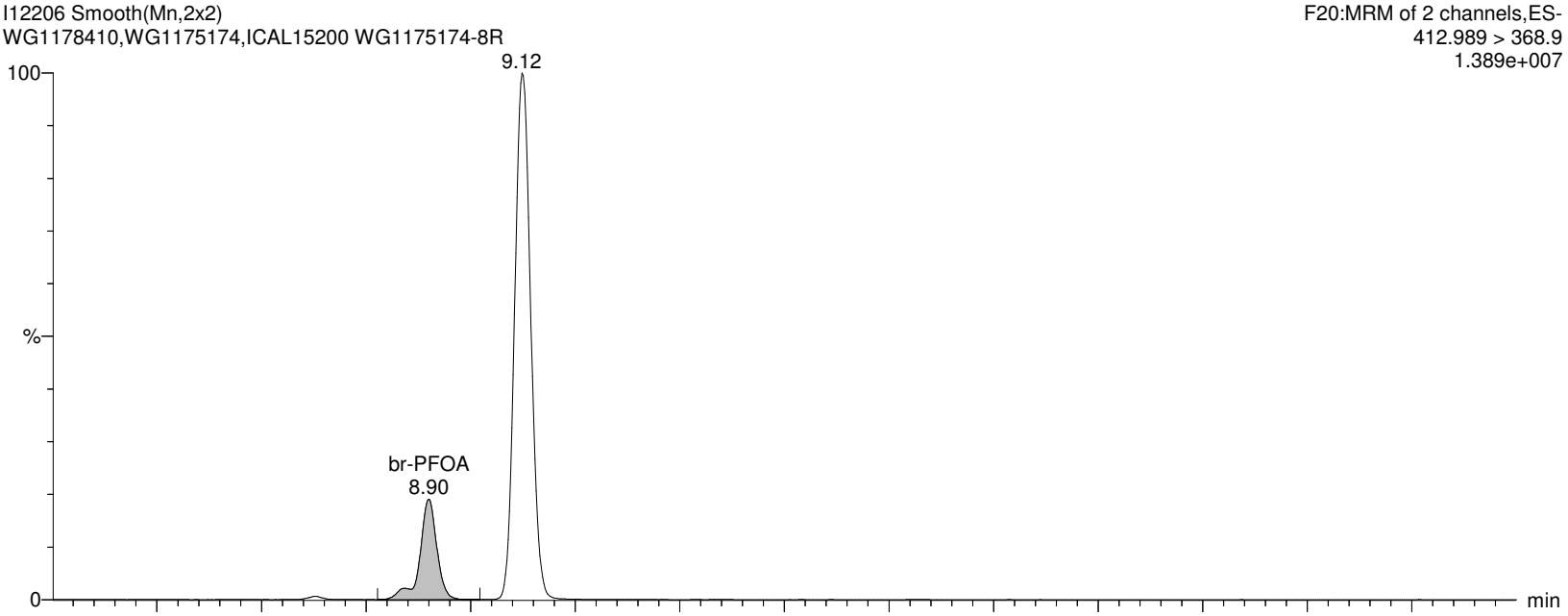

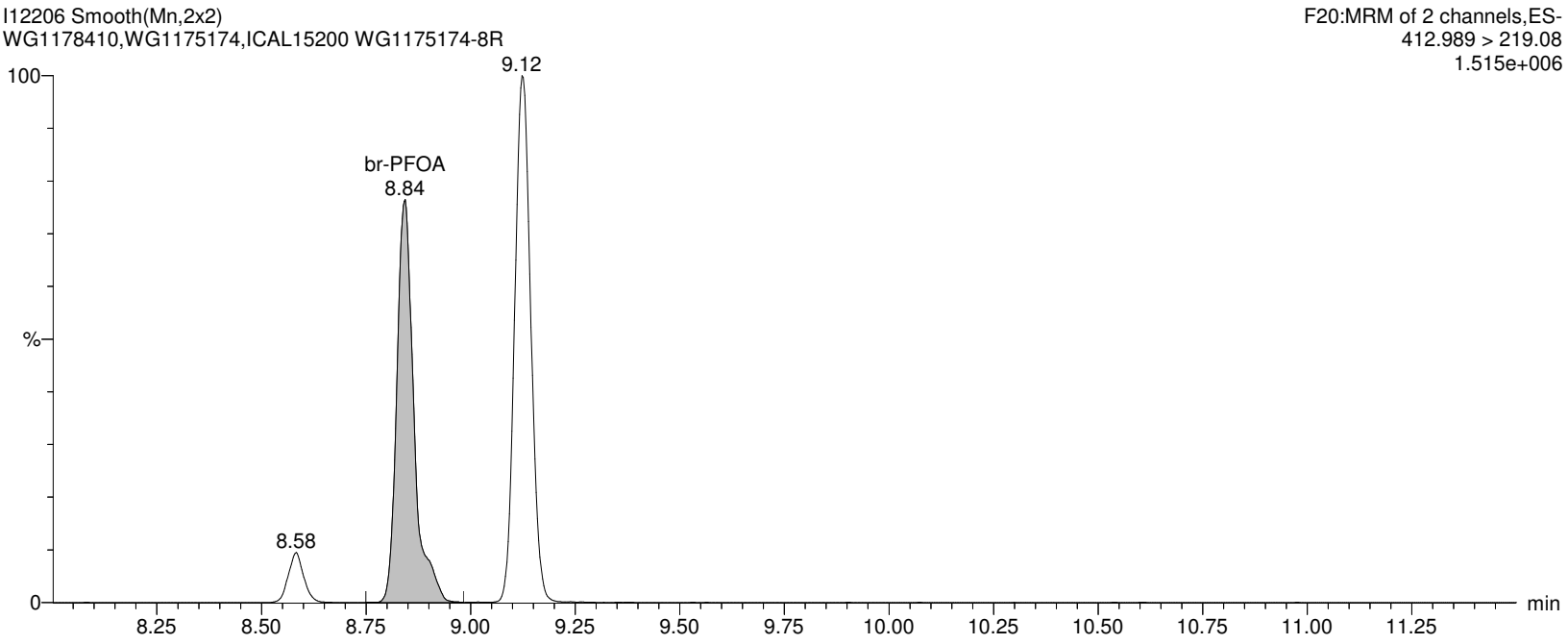

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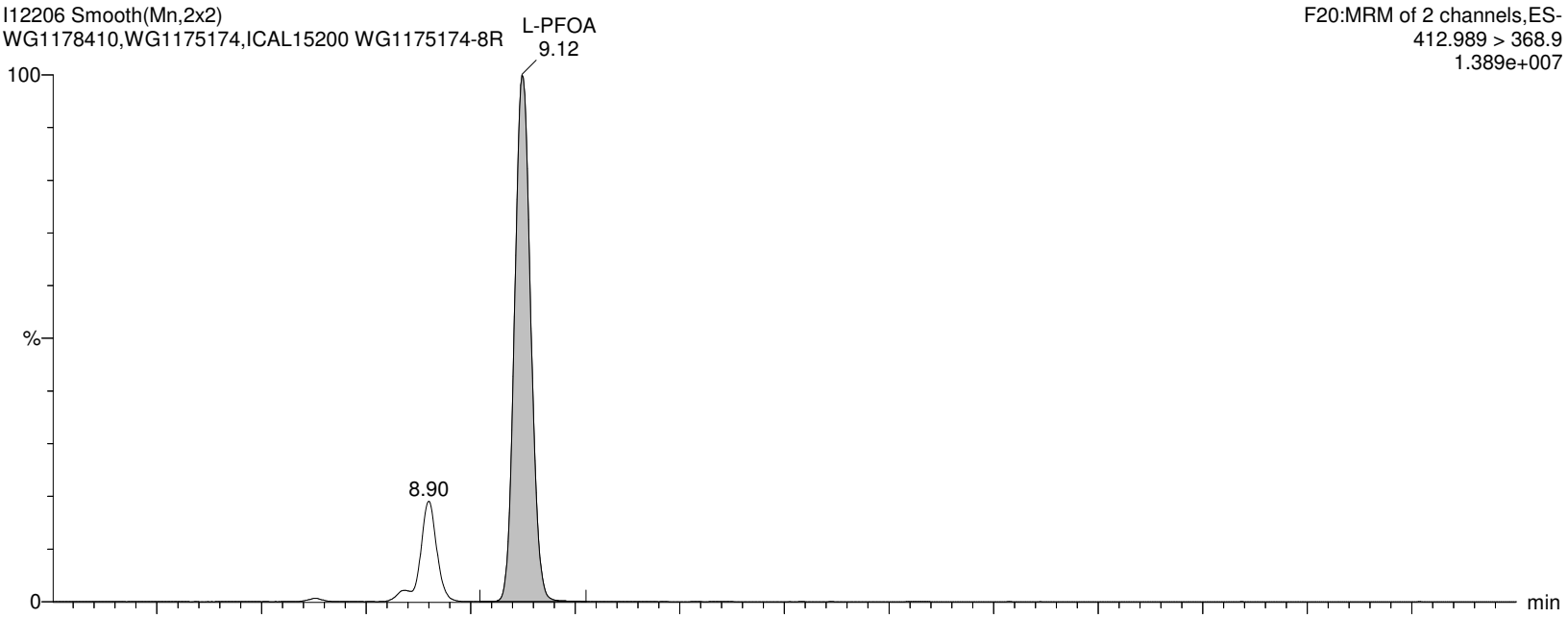

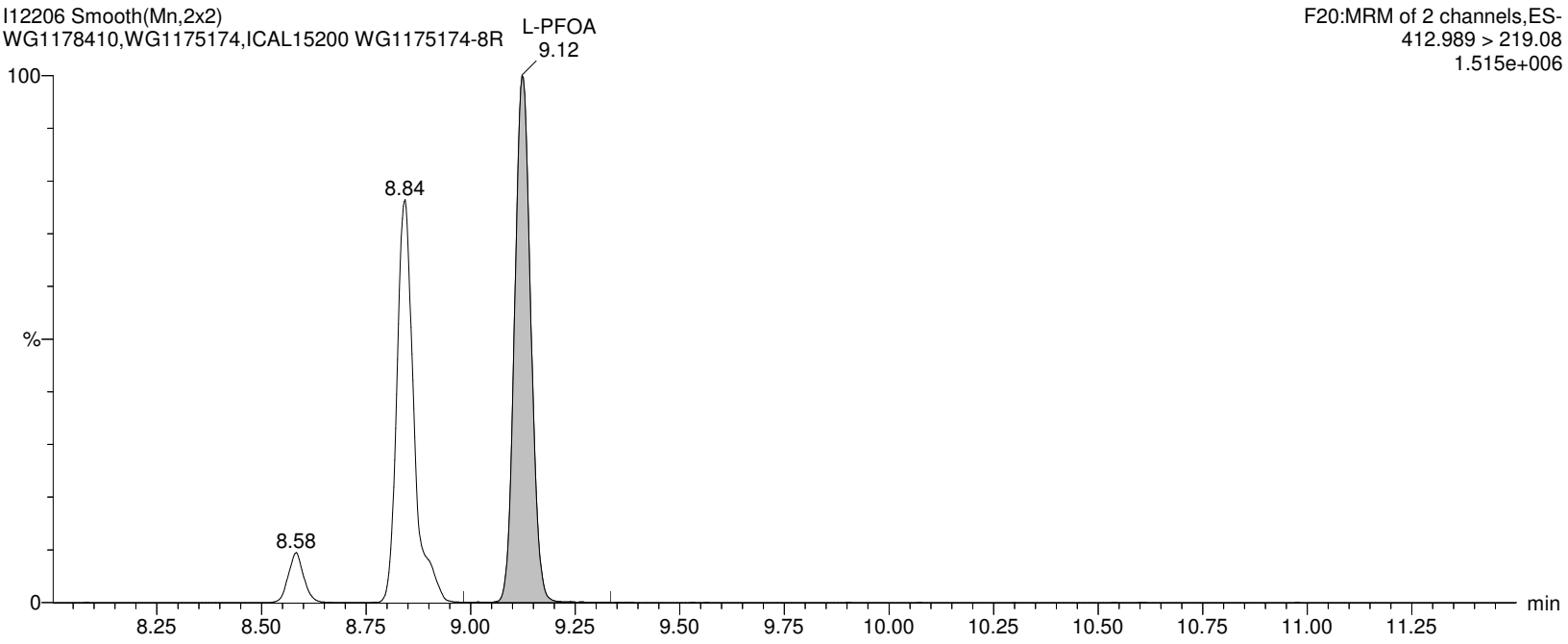

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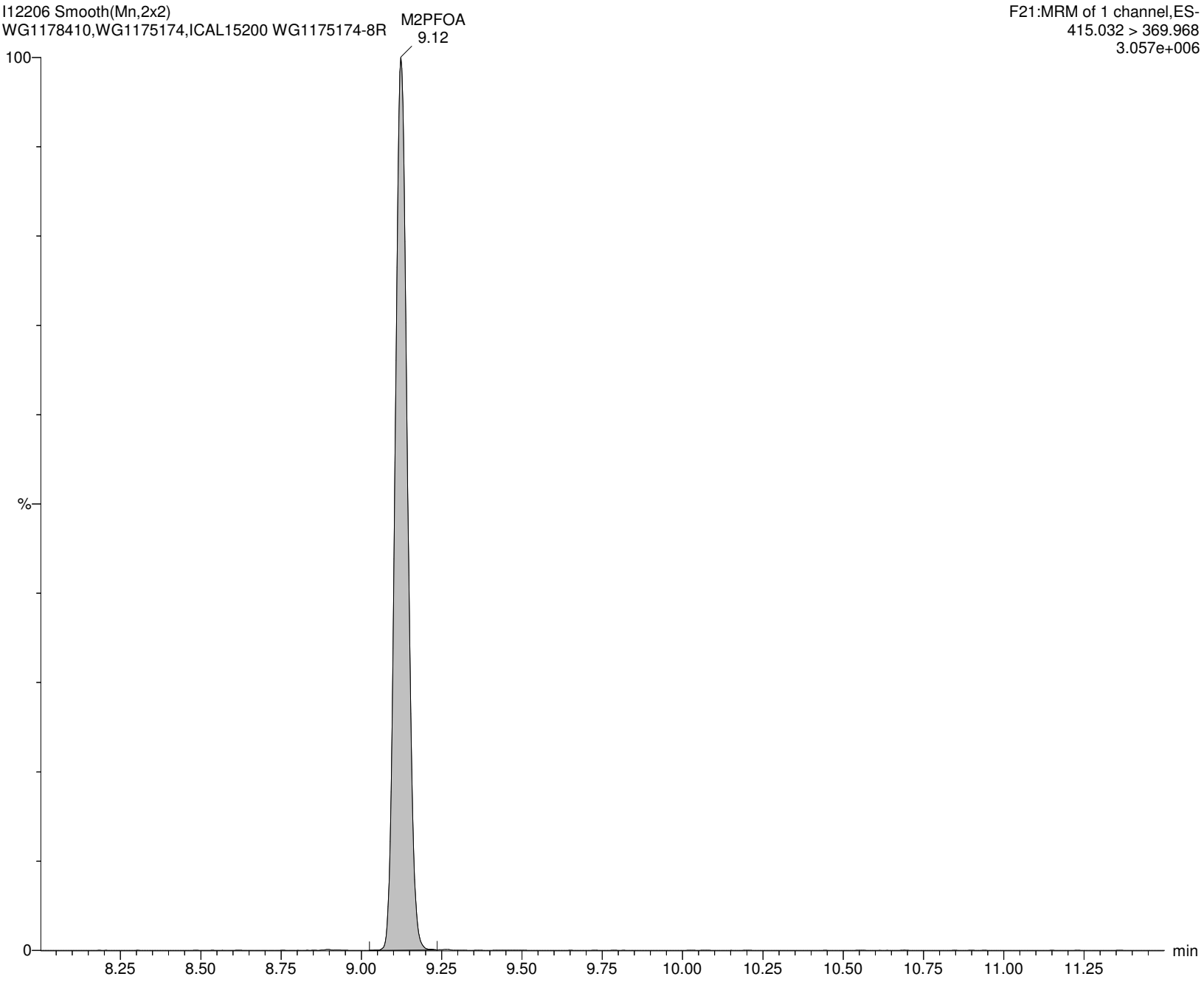

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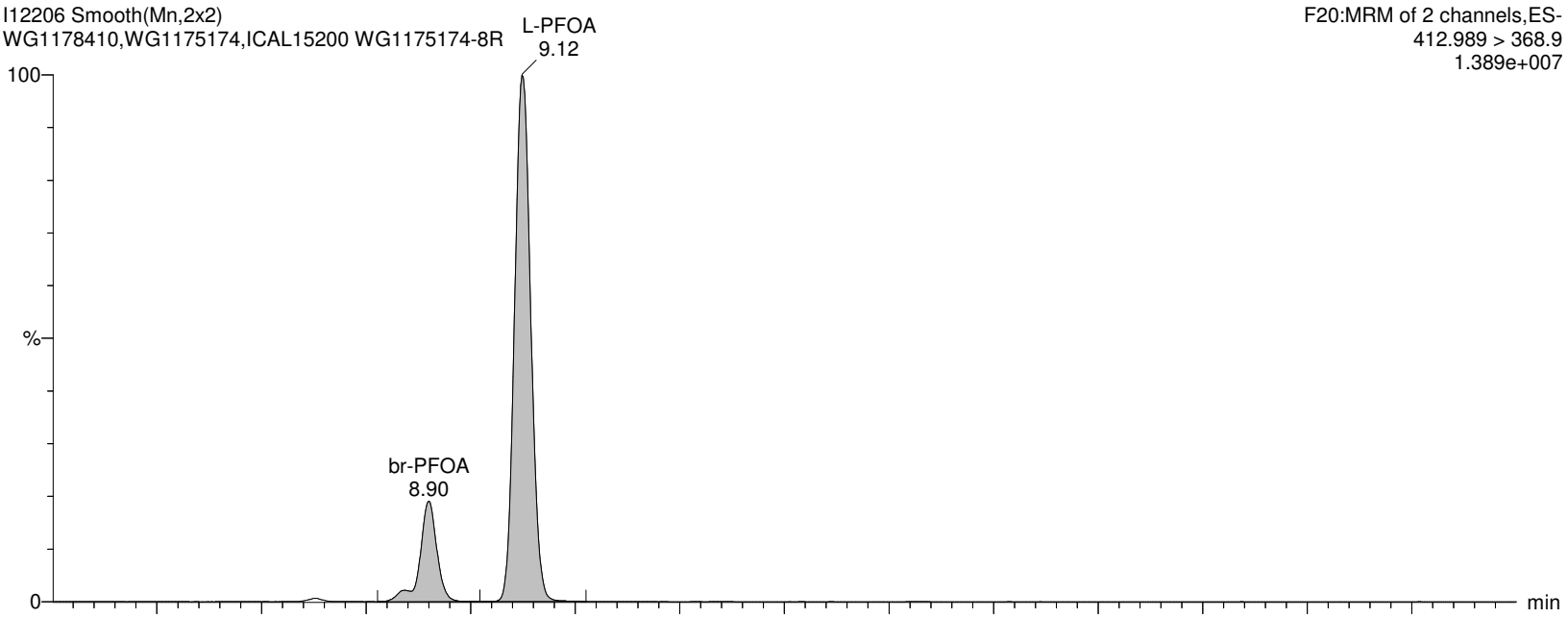

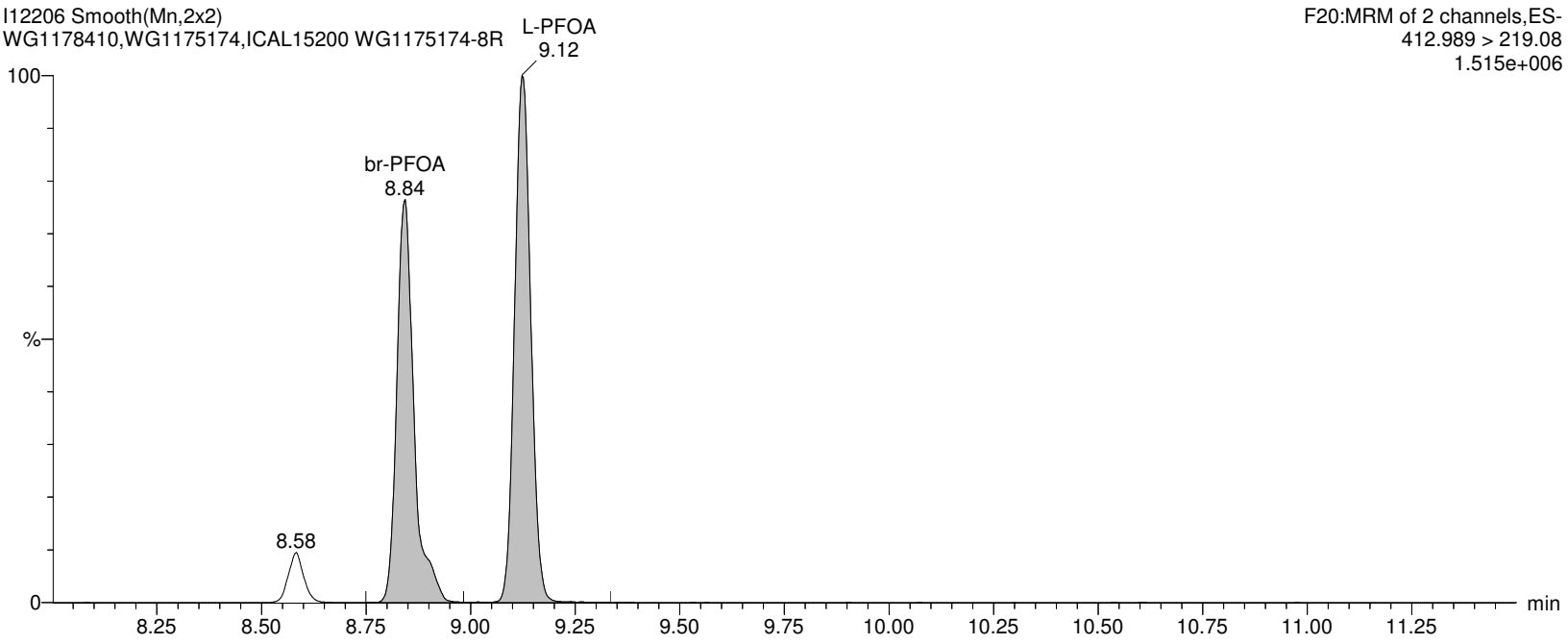

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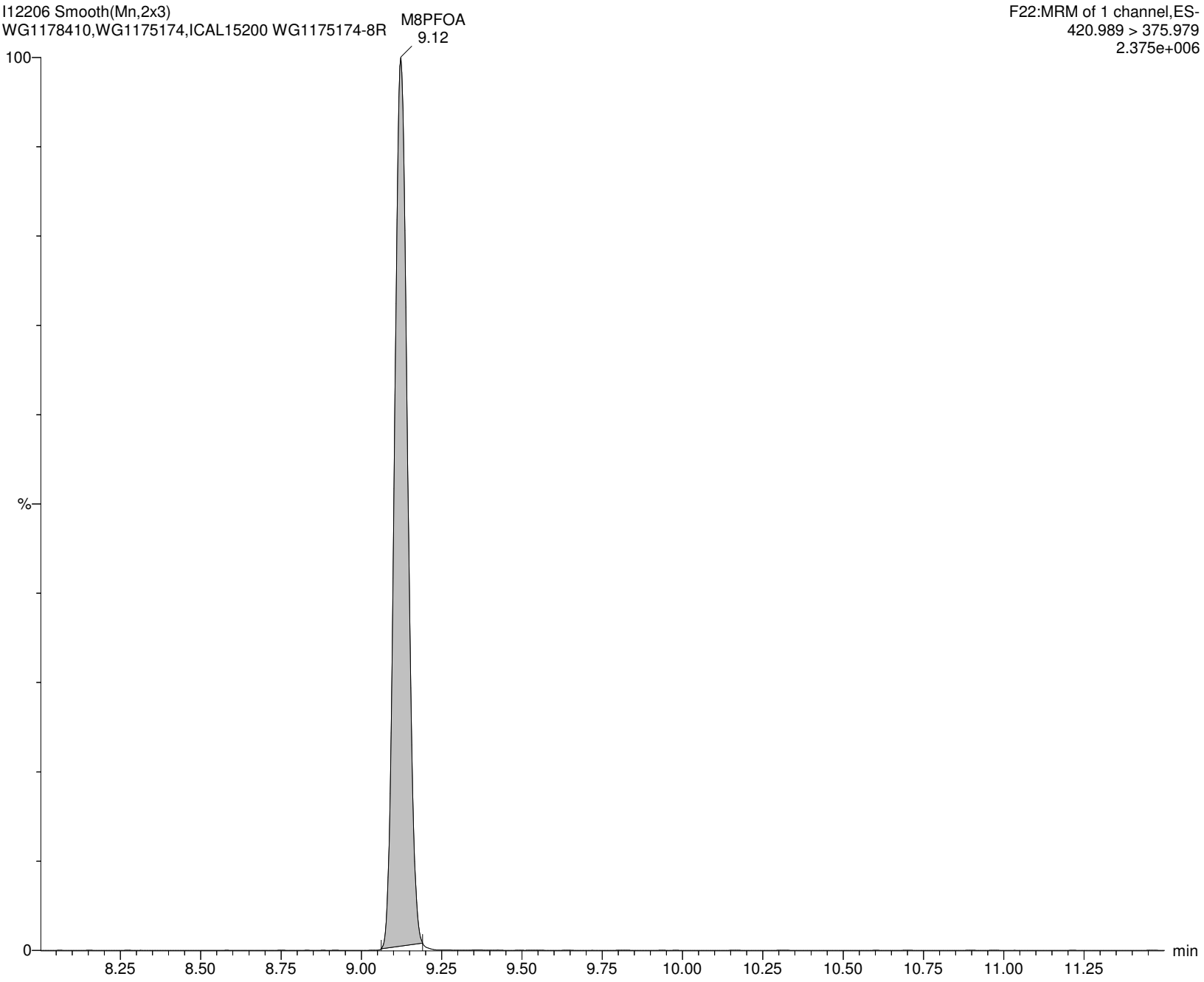

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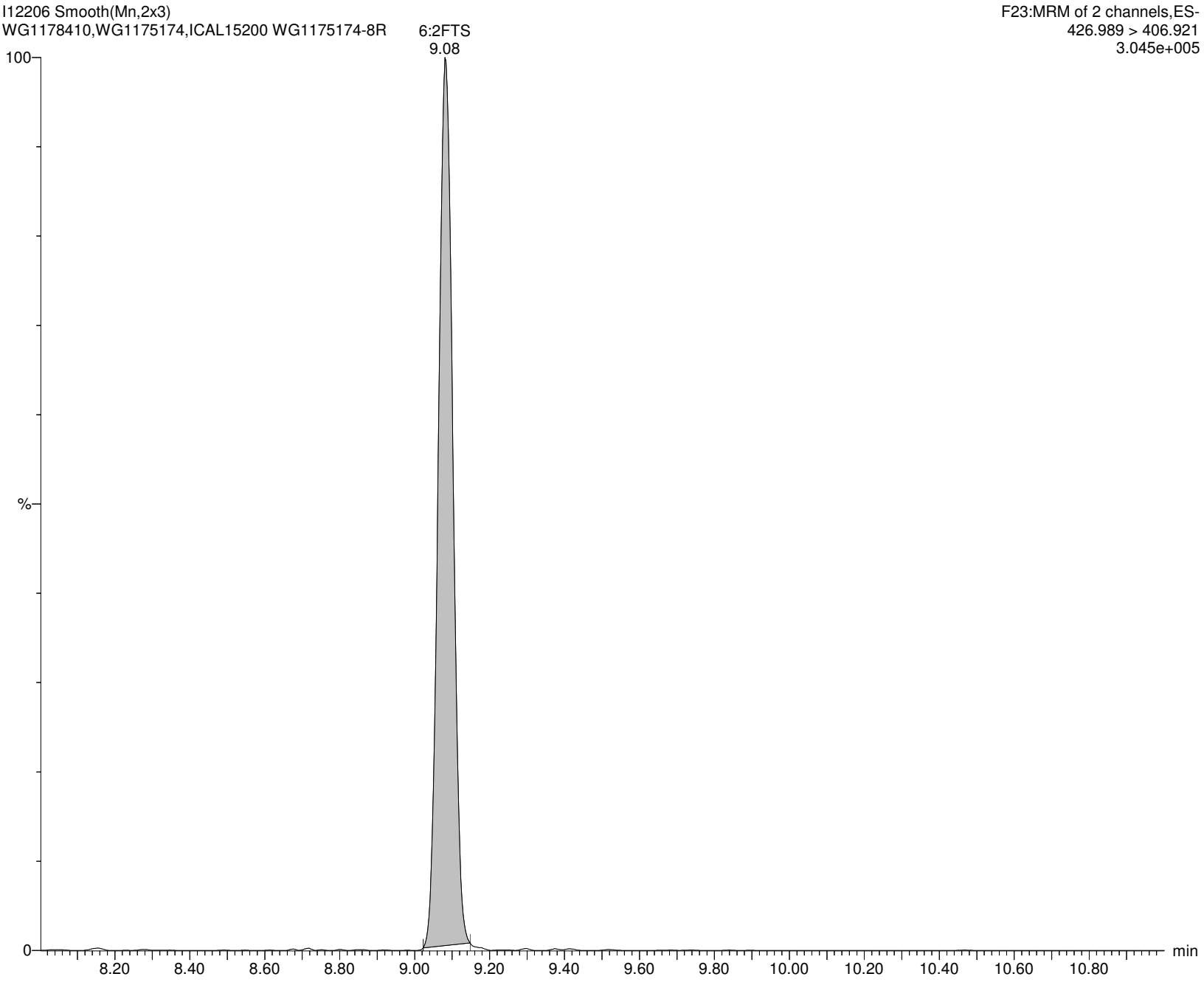

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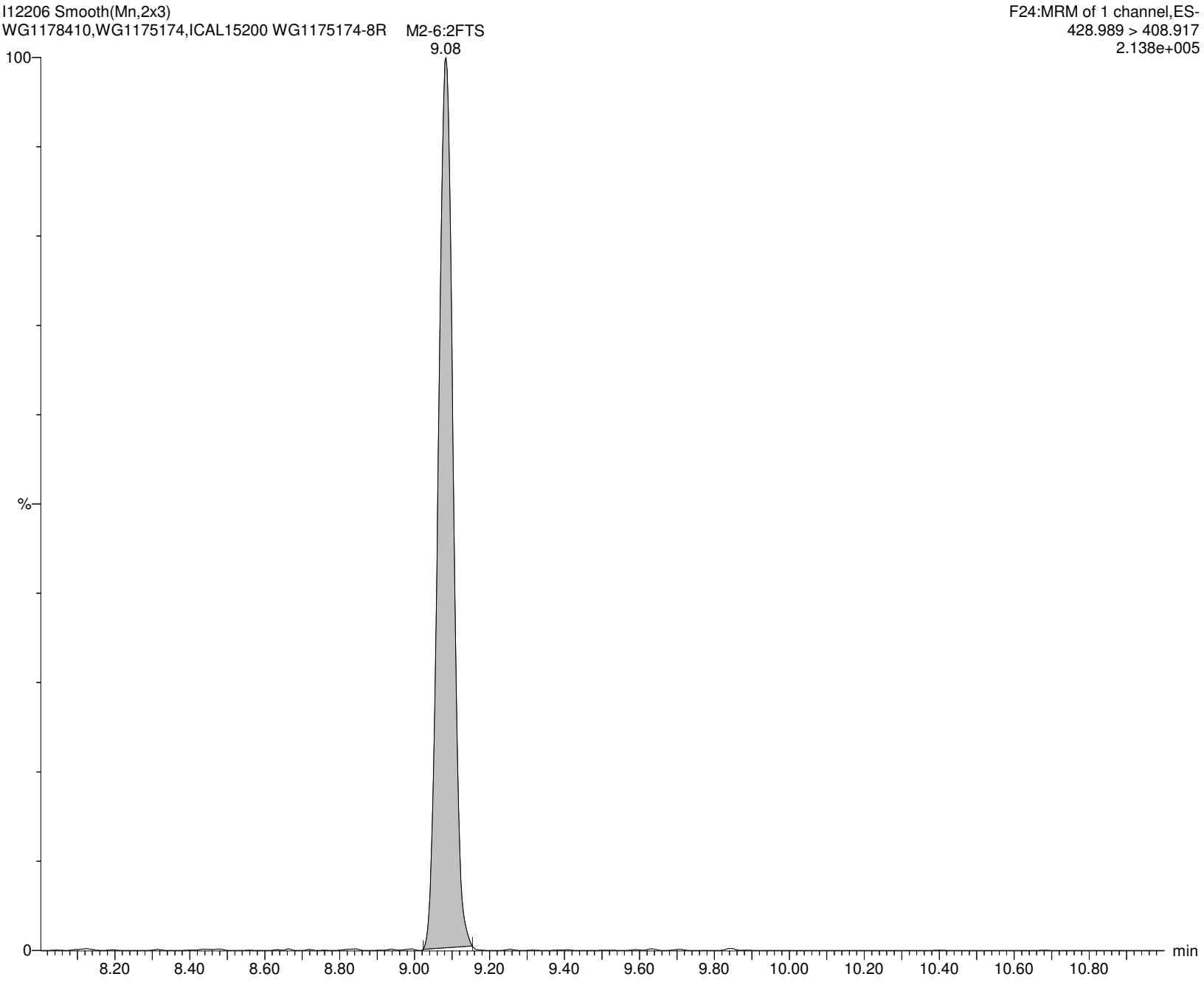

all concentration units in (ng/mL)

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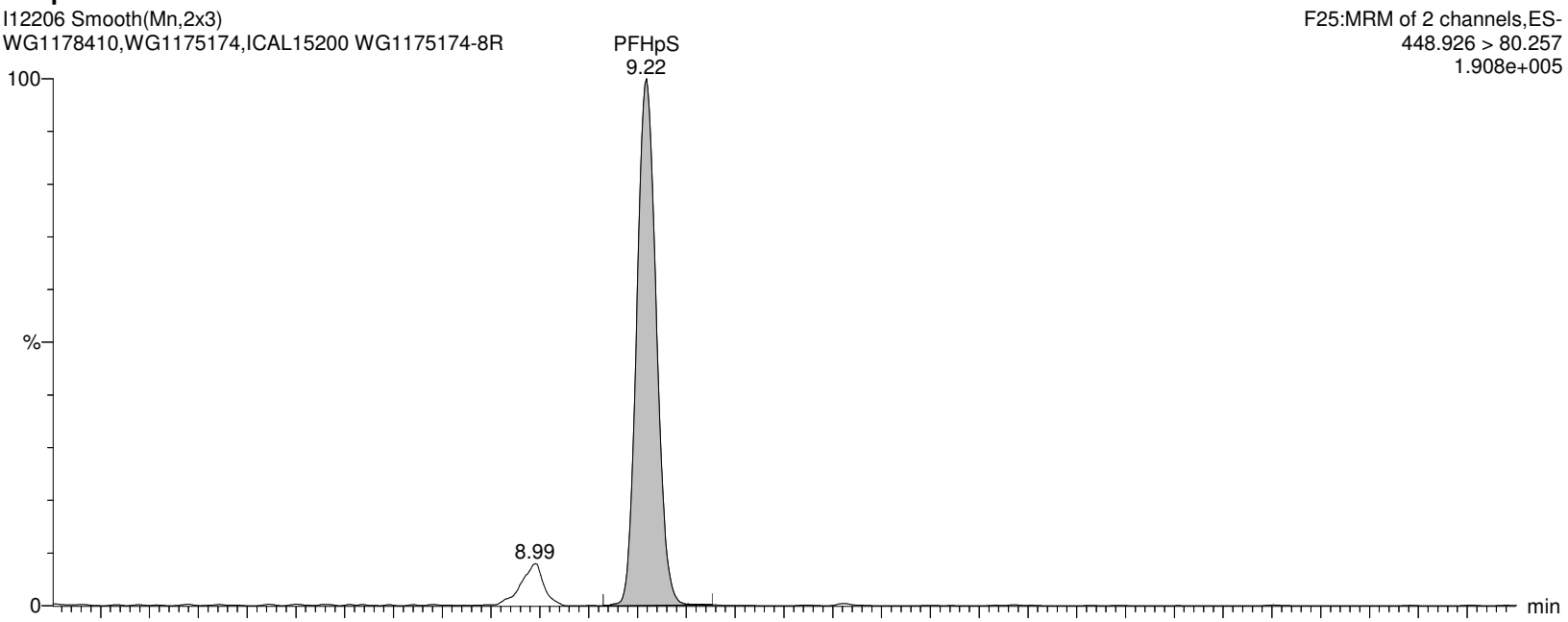

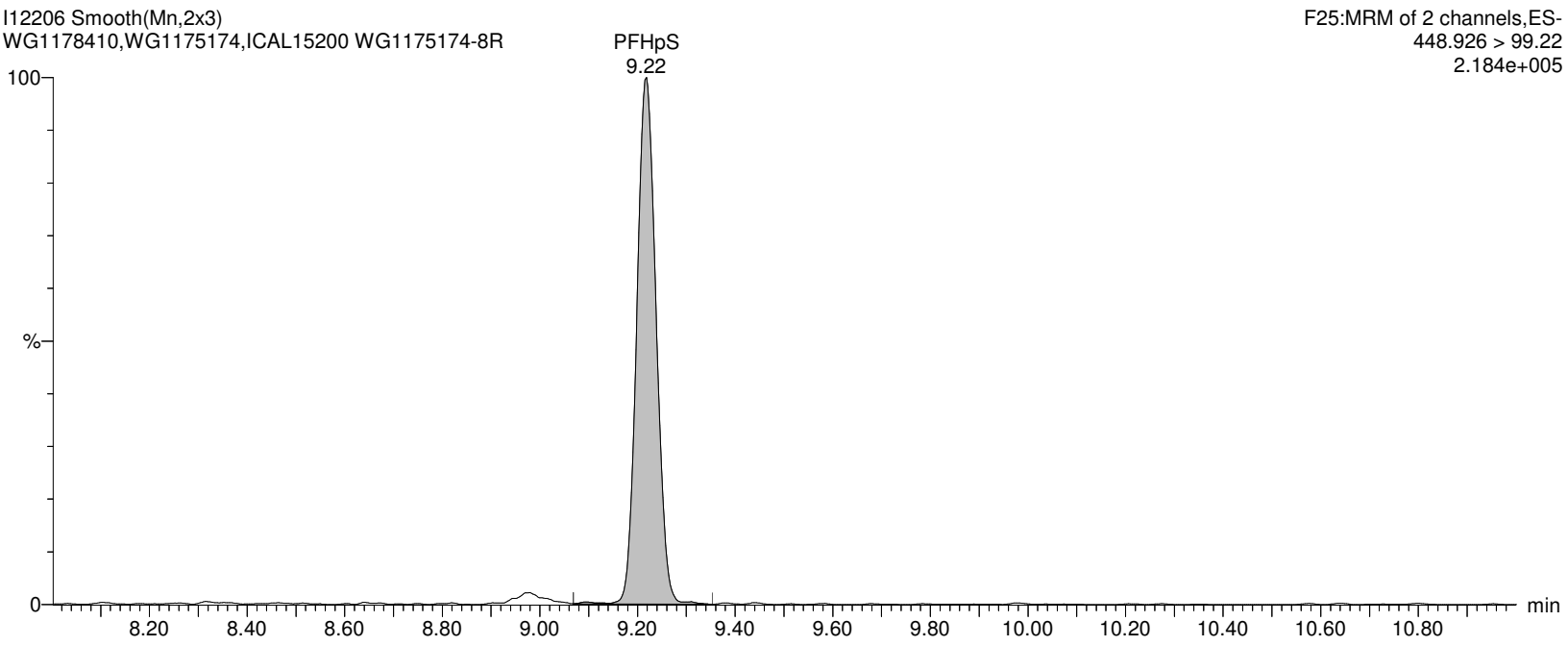

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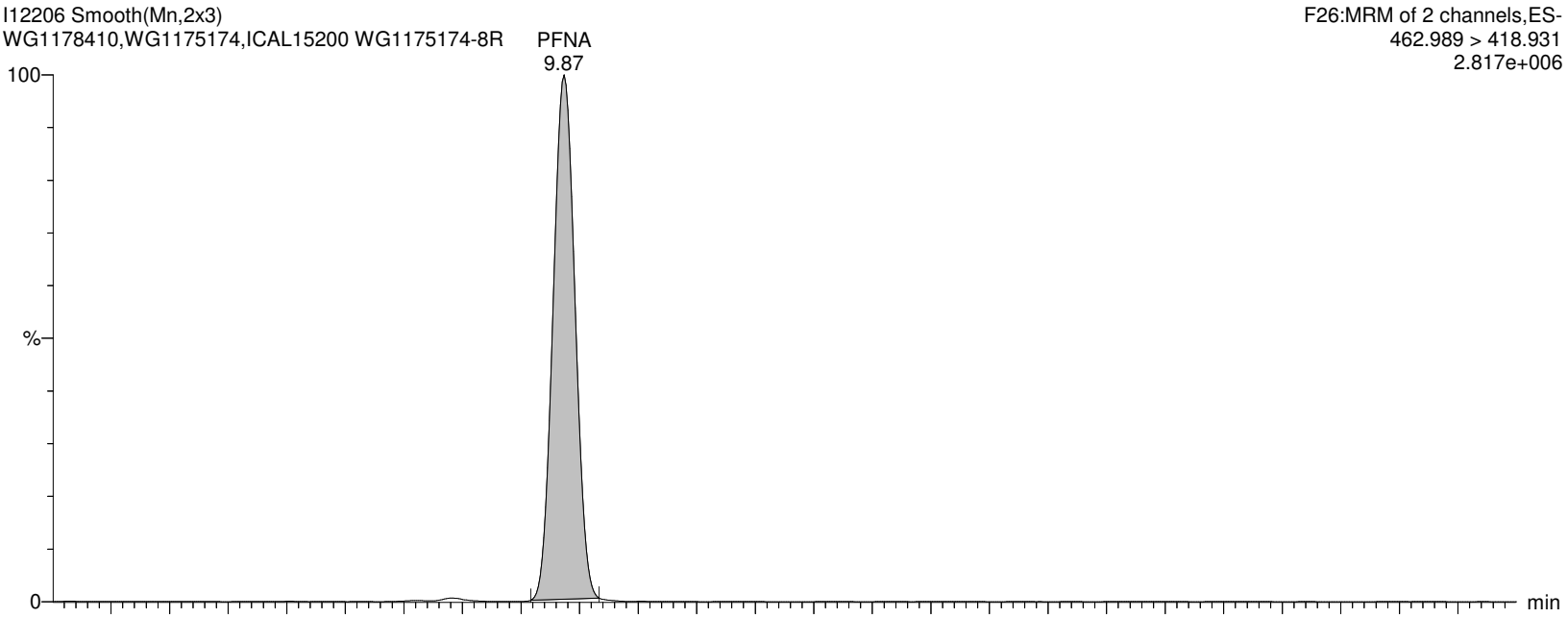

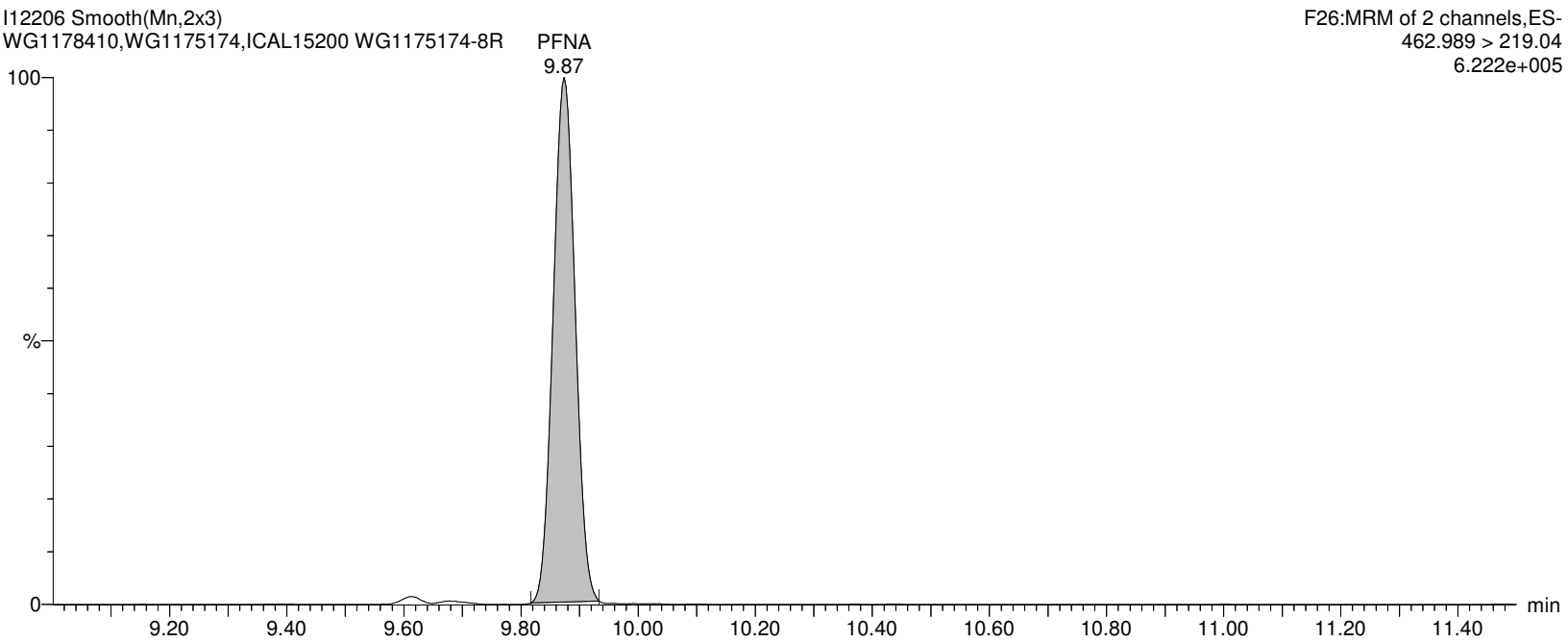

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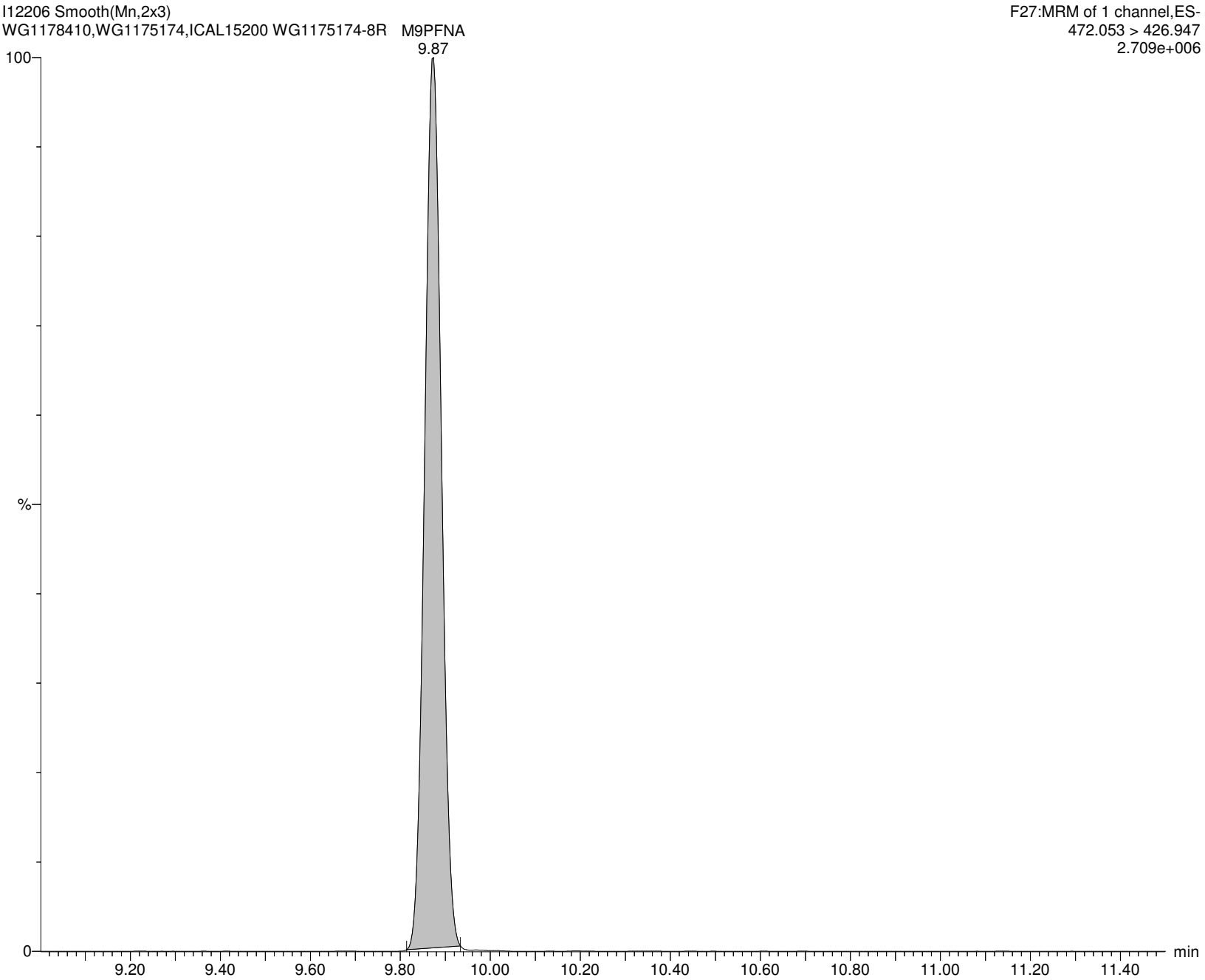

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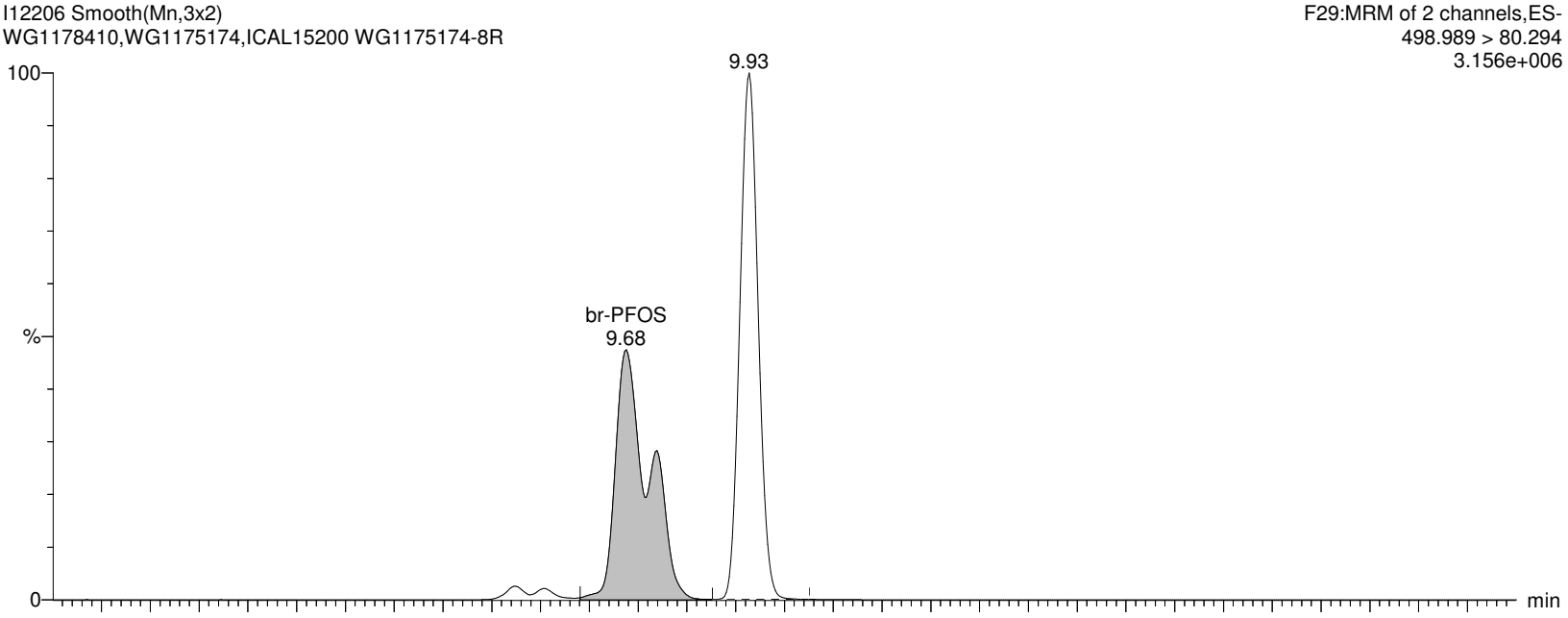

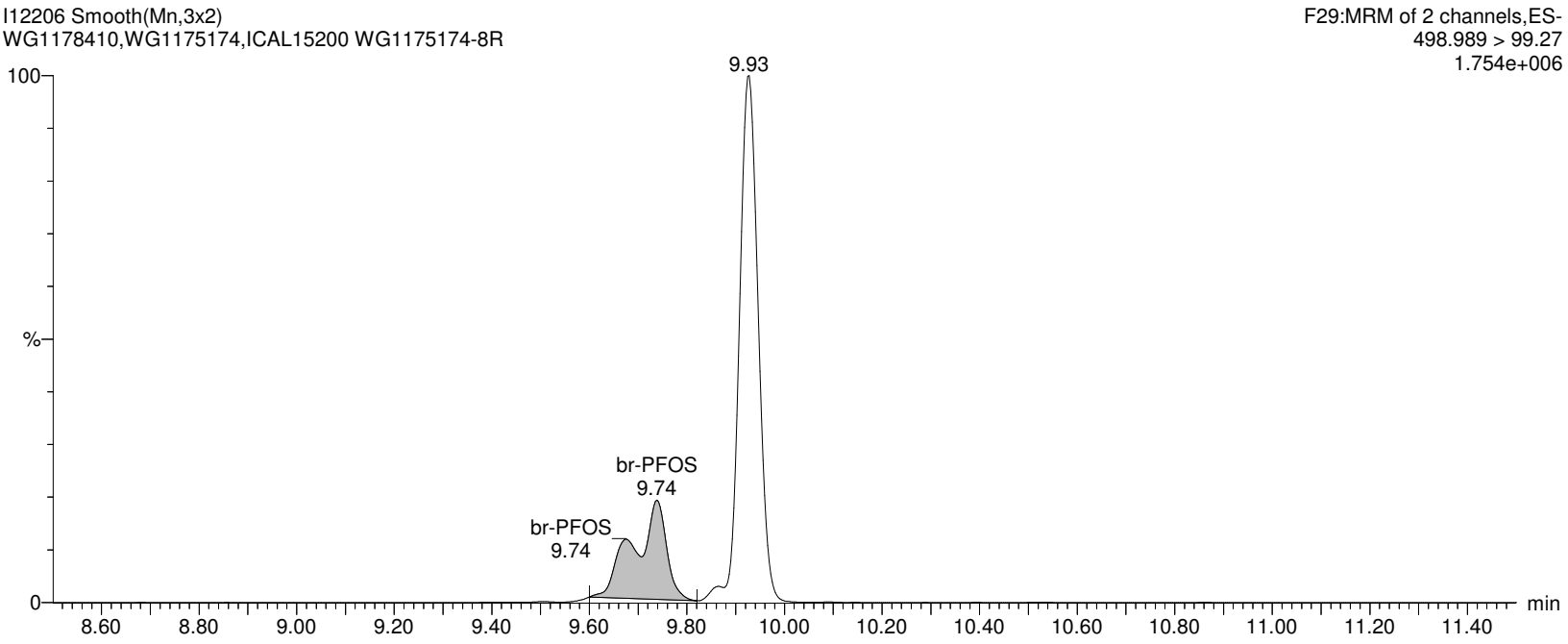

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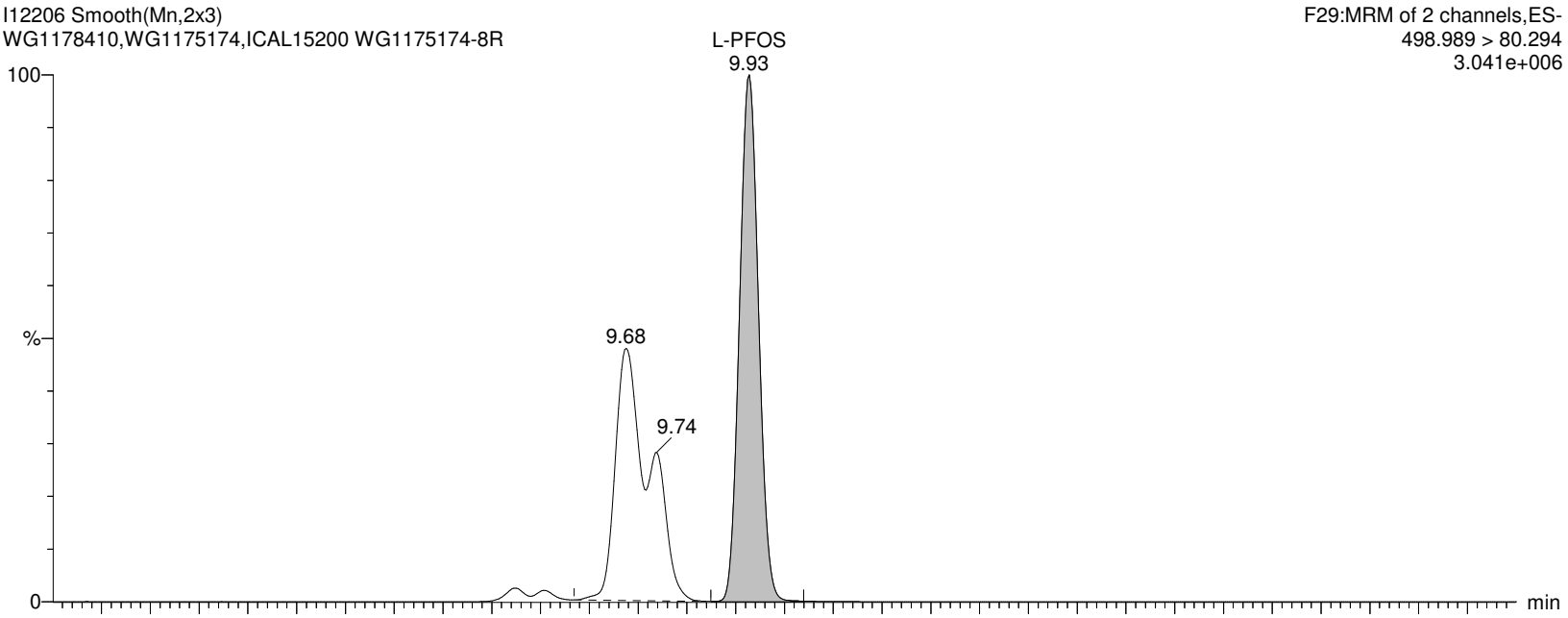

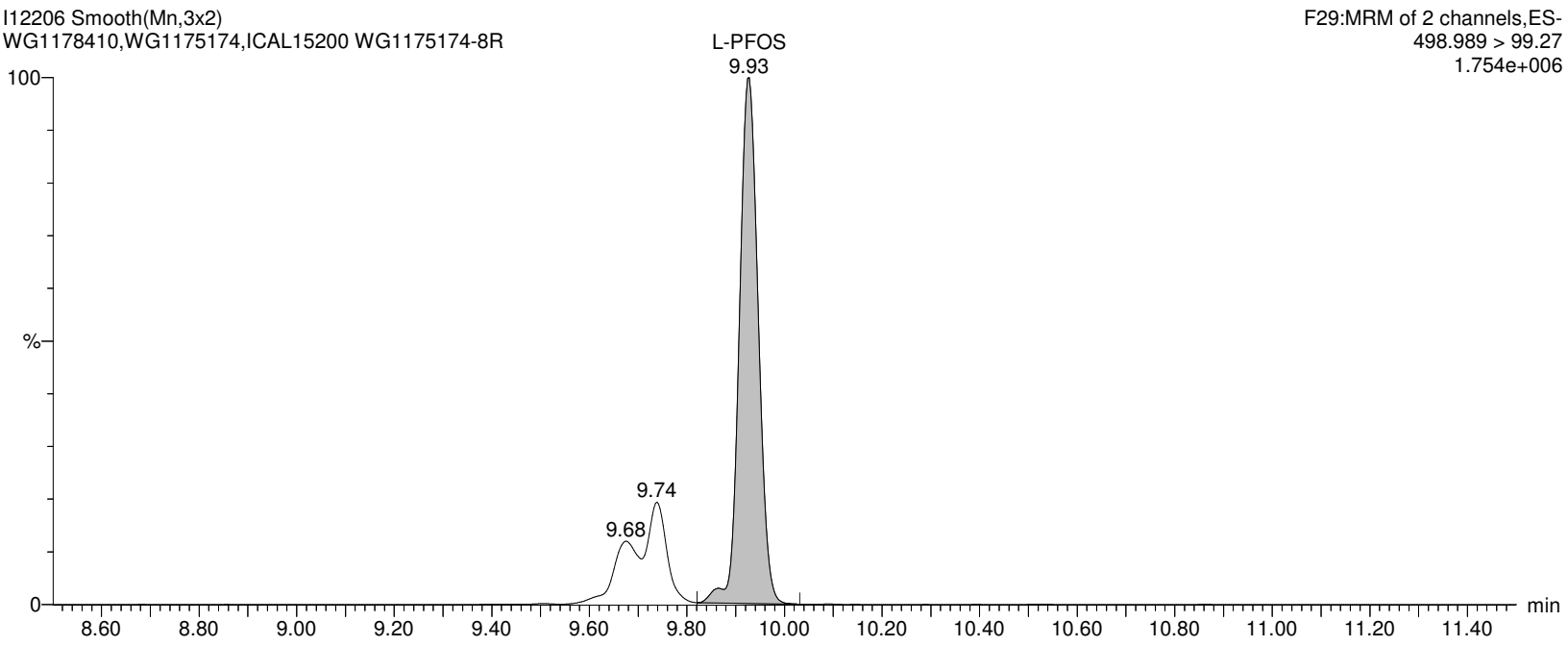

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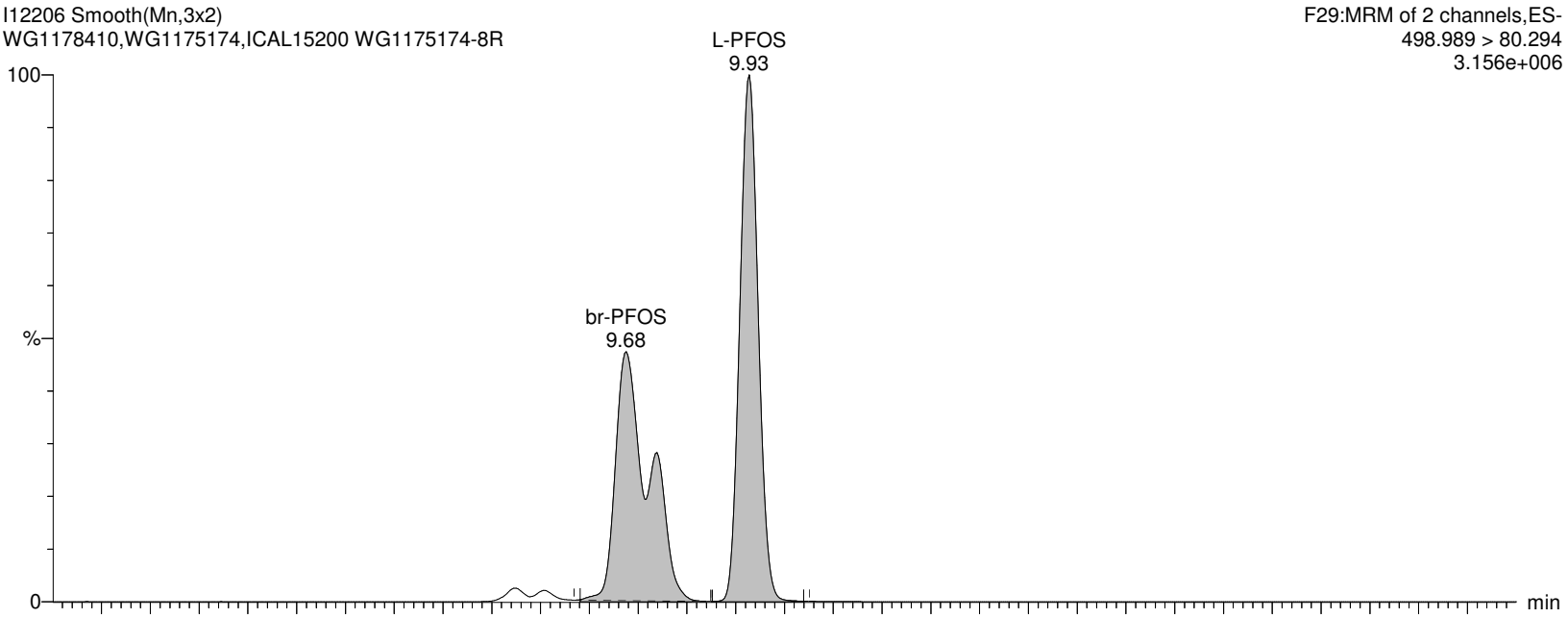

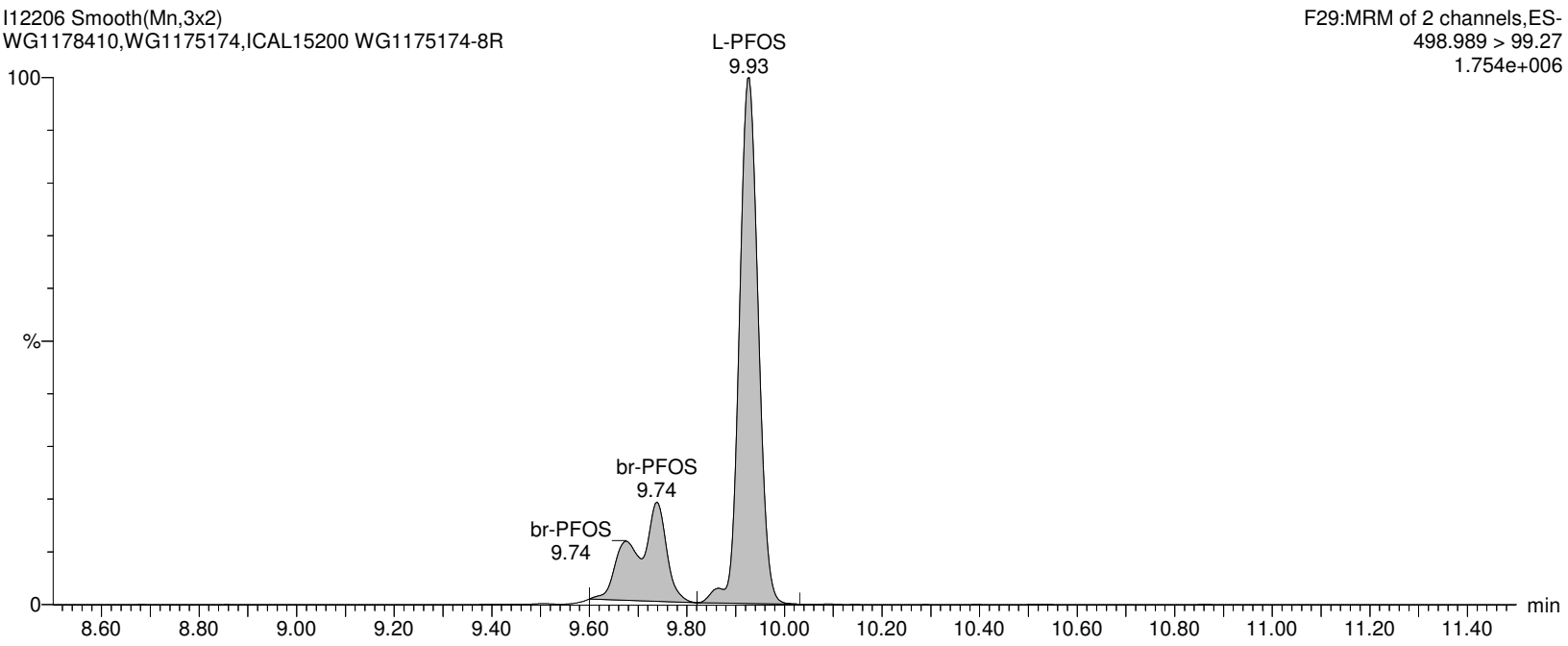

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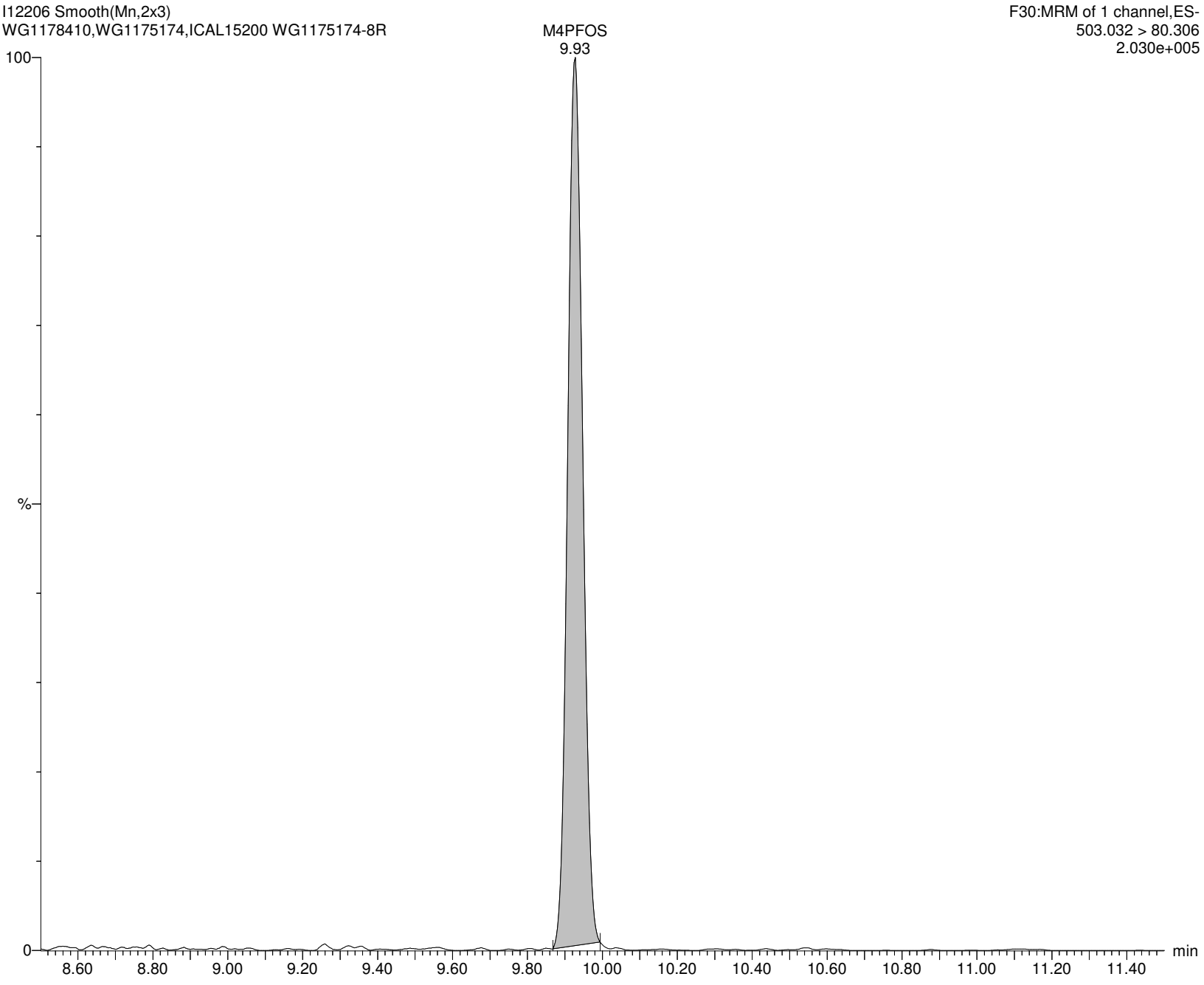

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Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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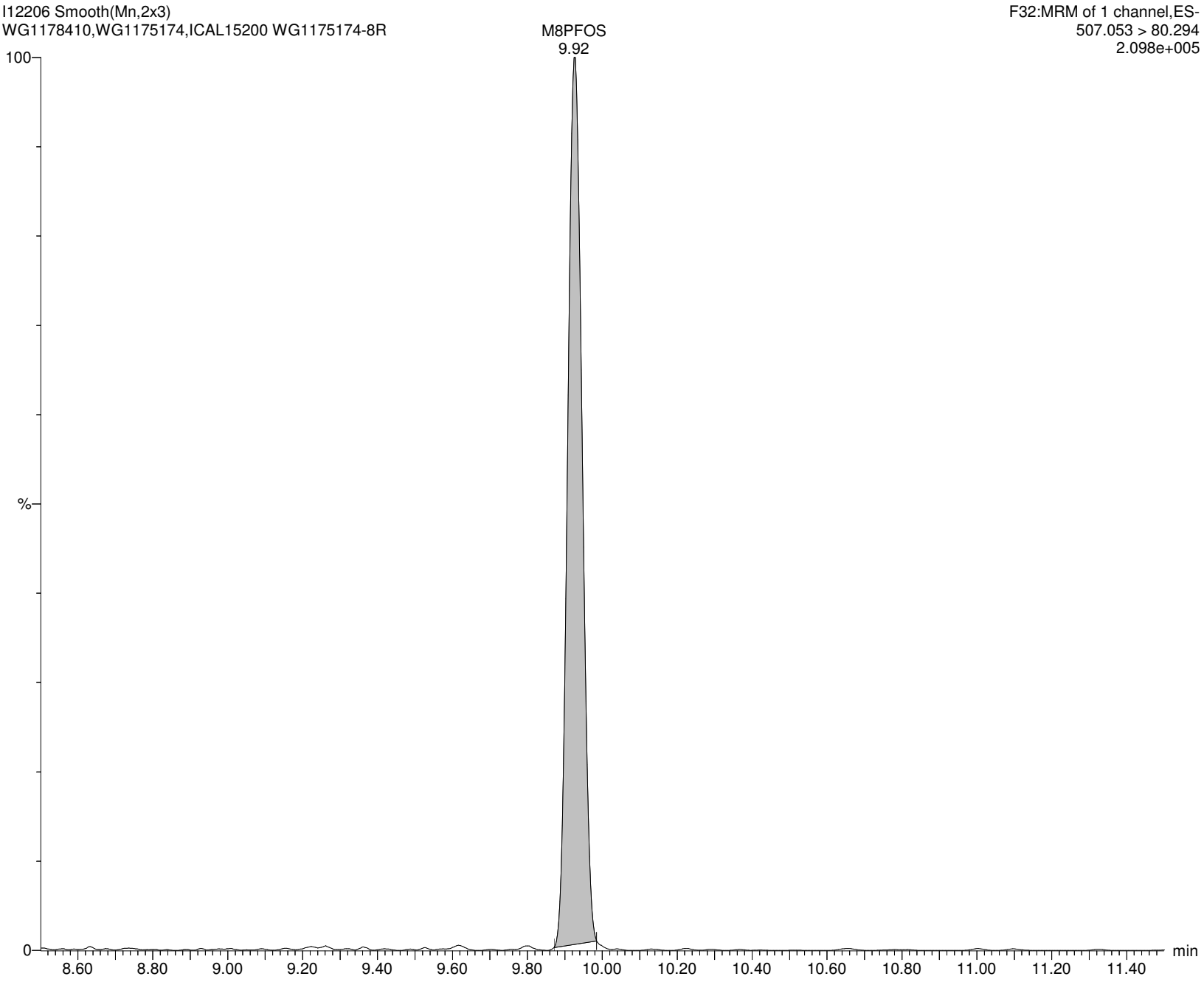

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

Name: I12206
ID: WG1175174-8R
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:E,8
Instrument: XEVO-TQSmicro#QEA0276
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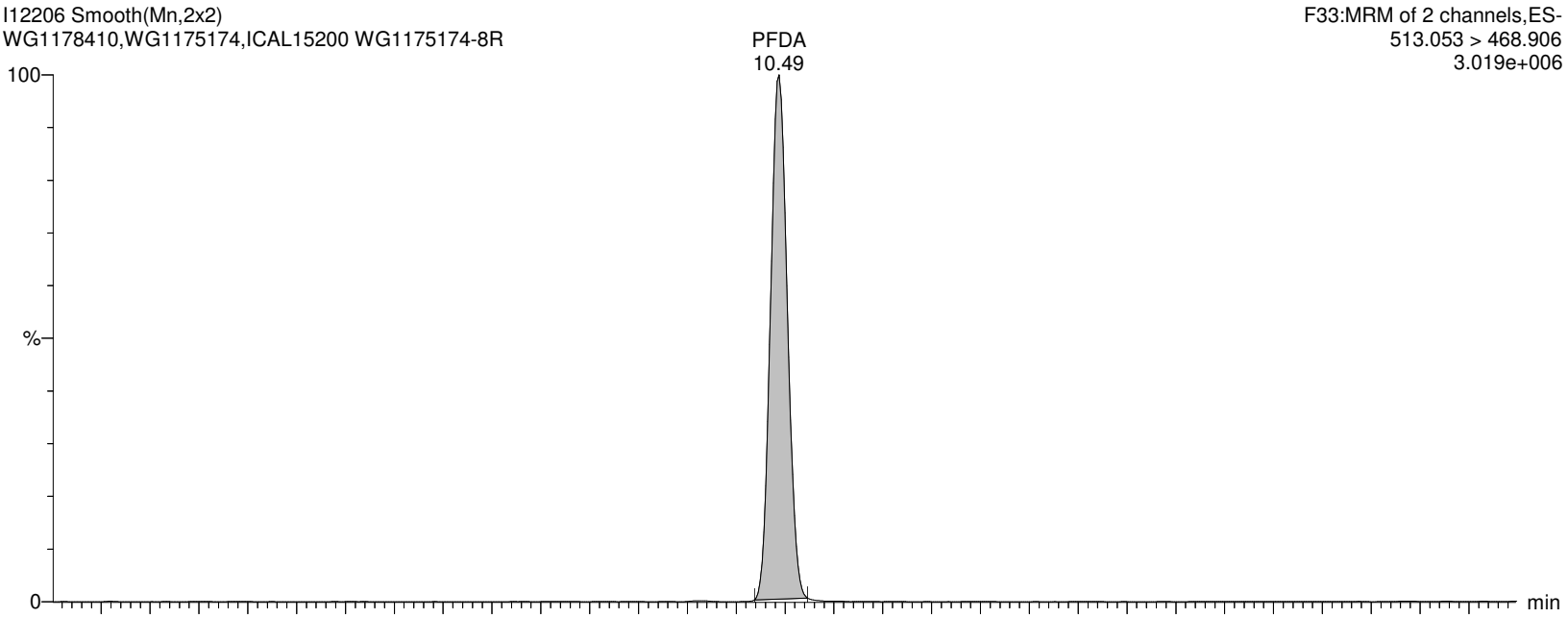

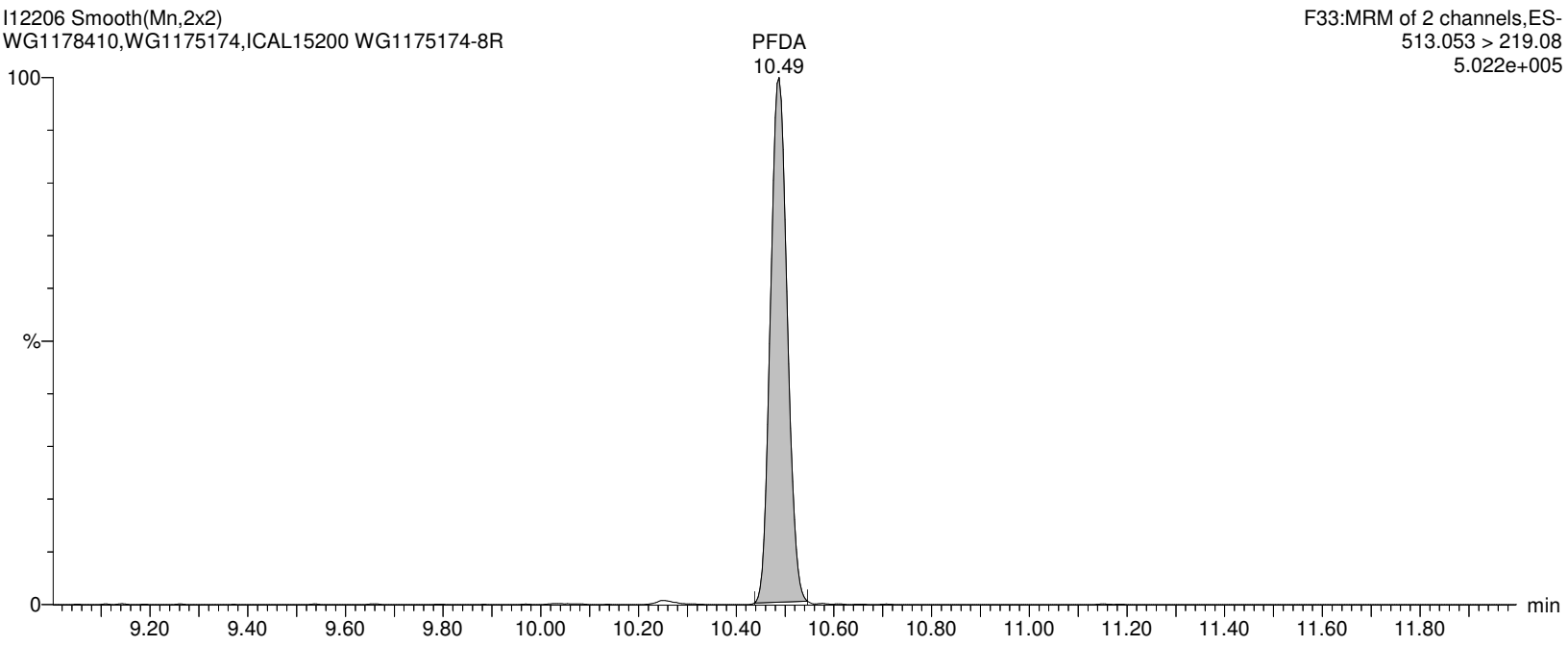

all concentration units in (ng/mL)

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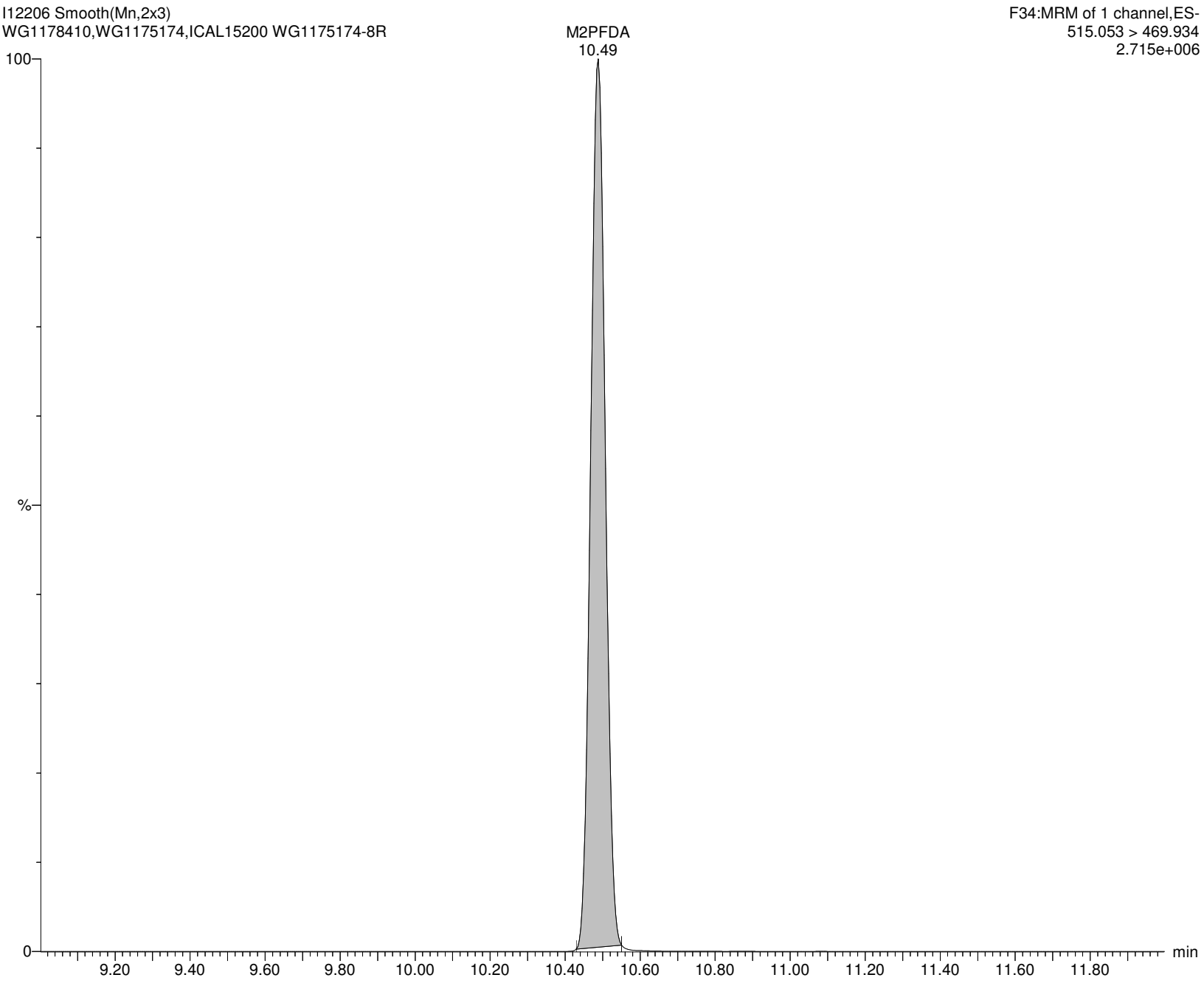

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
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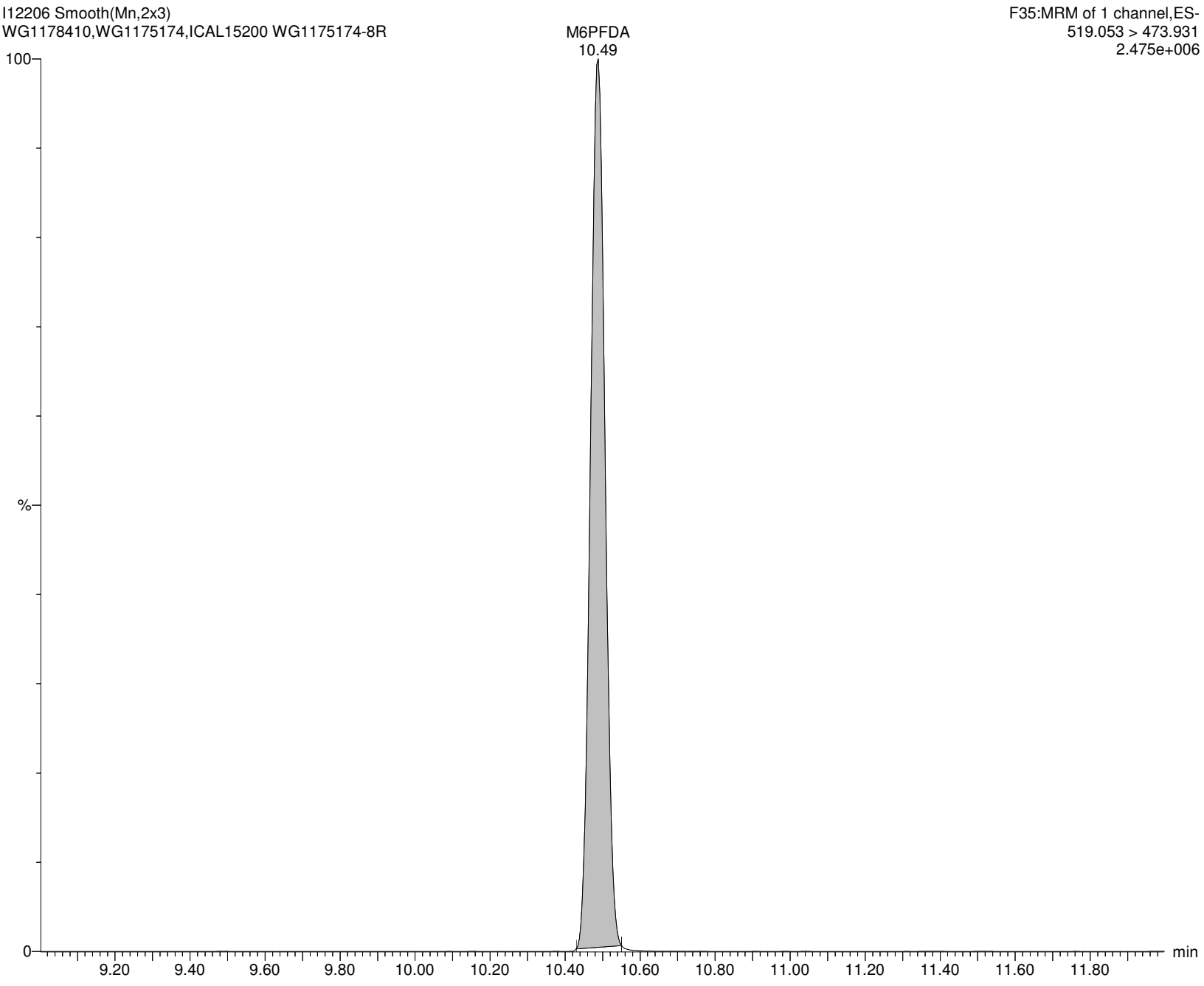

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
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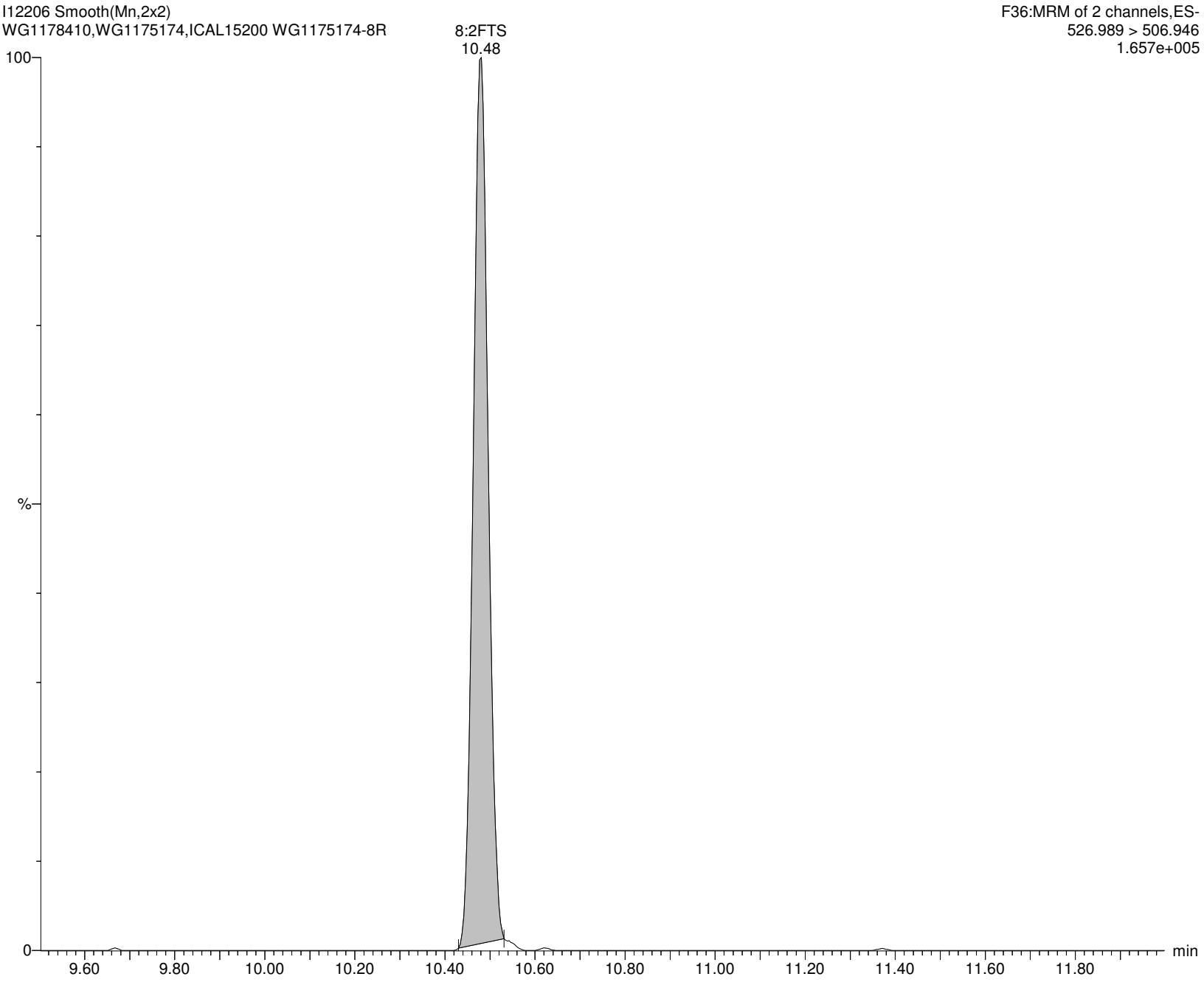
8:2FTS



all concentration units in (ng/mL)

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Vial: 2:E,8
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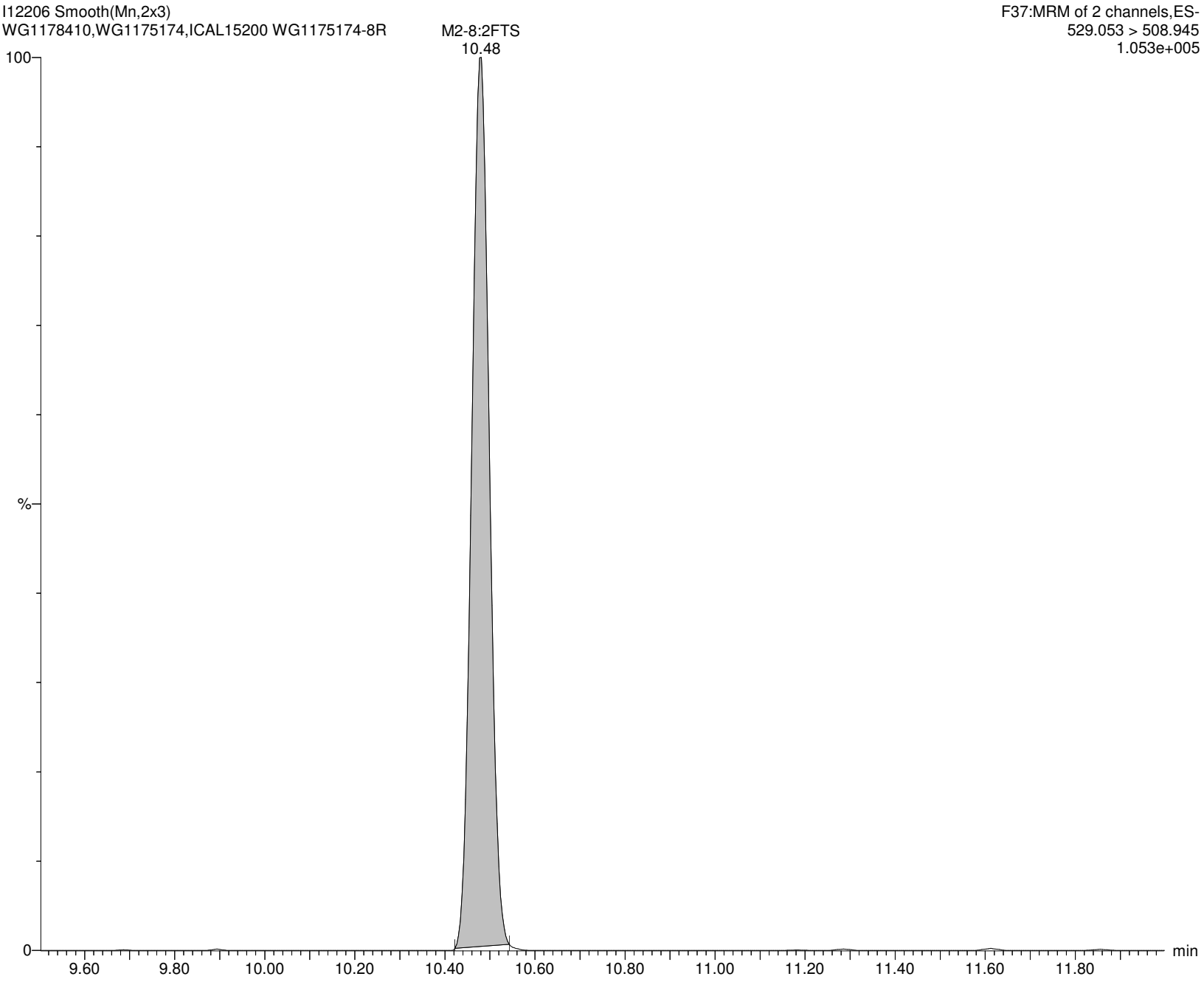

all concentration units in (ng/mL)

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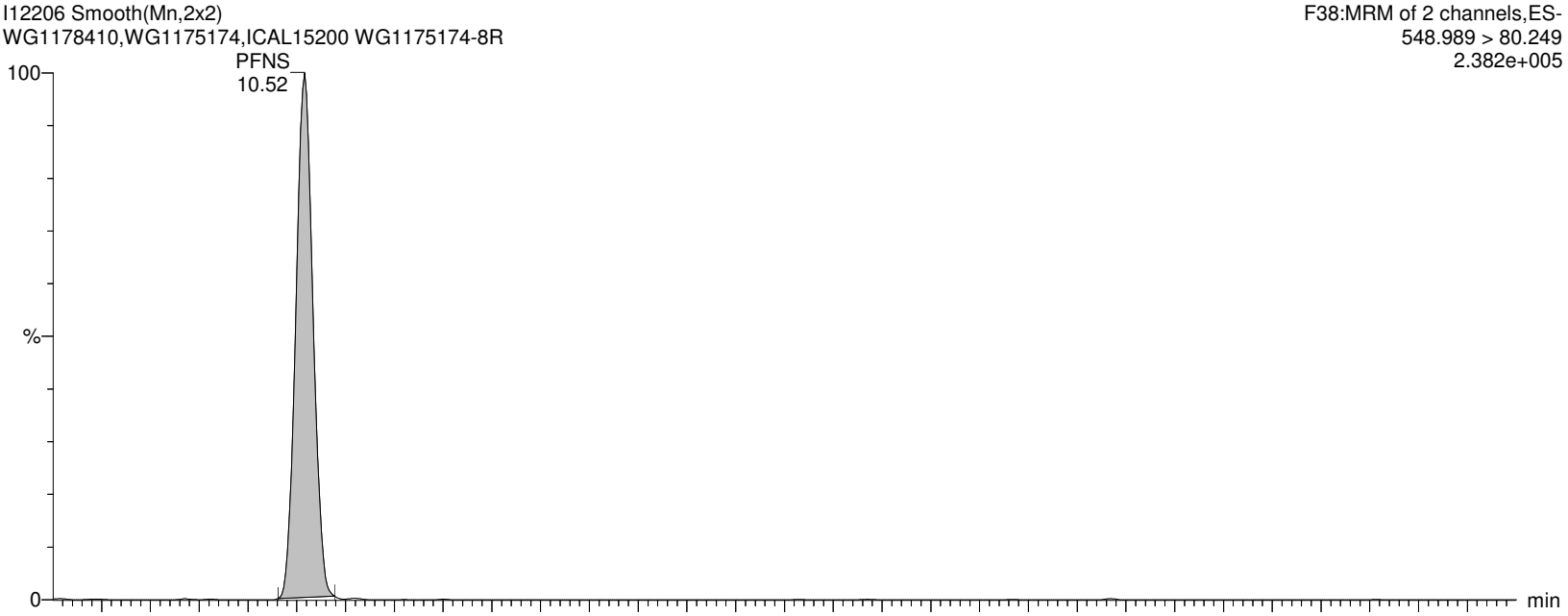

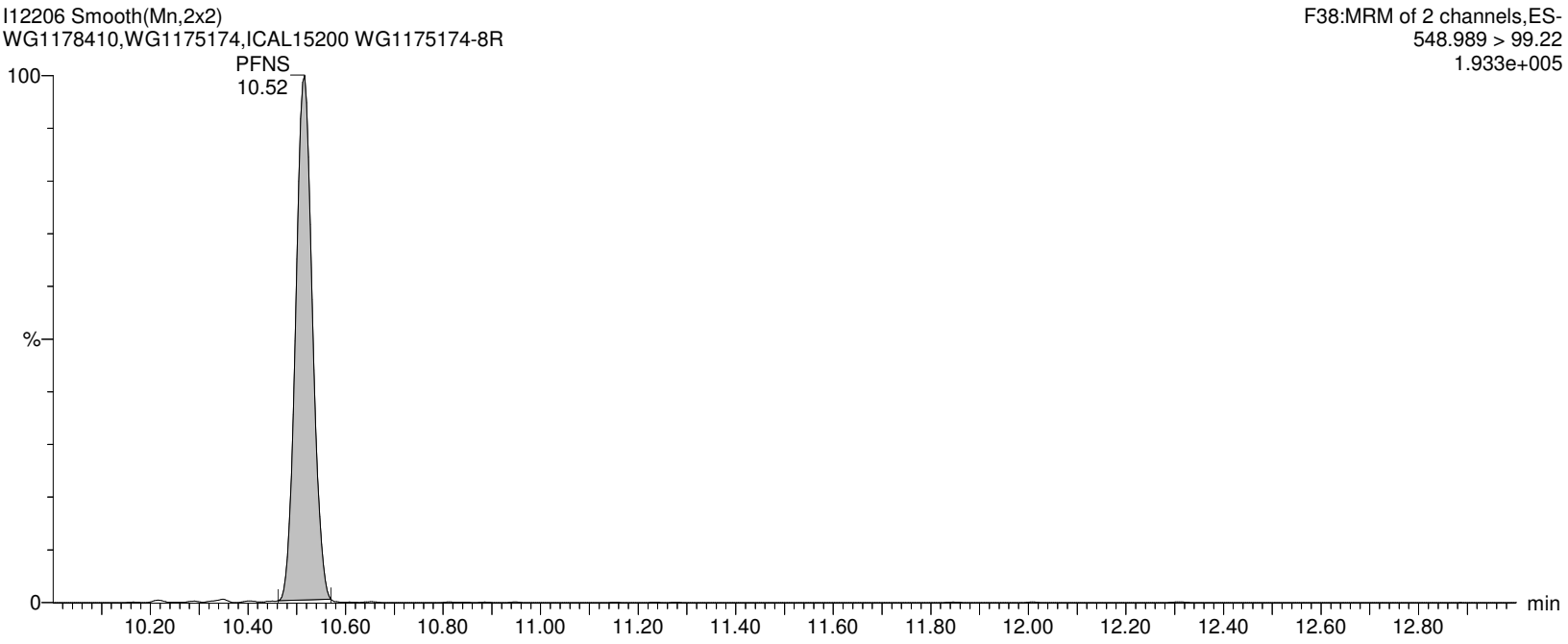

all concentration units in (ng/mL)

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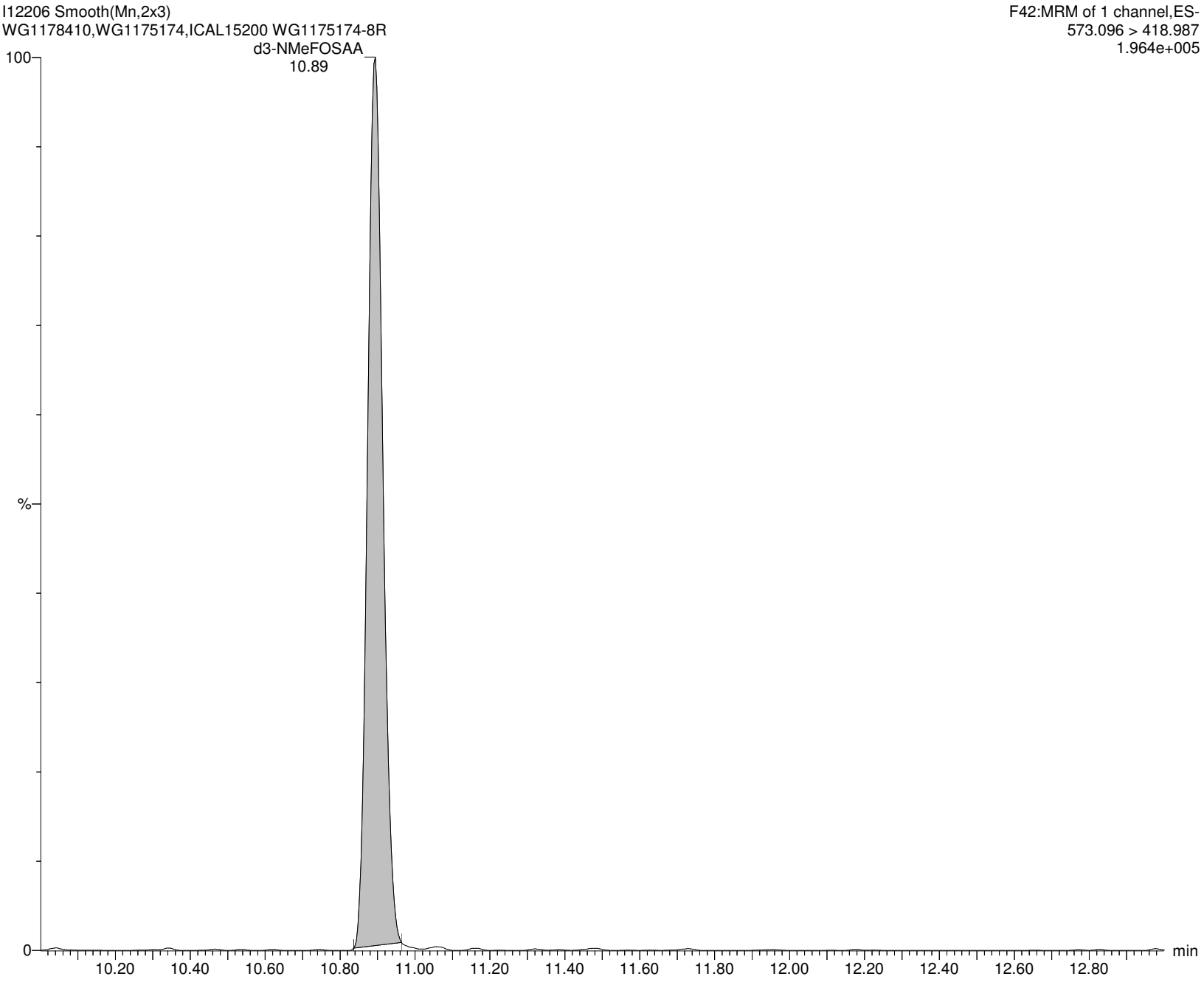
d3-NMeFOSAA



all concentration units in (ng/mL)

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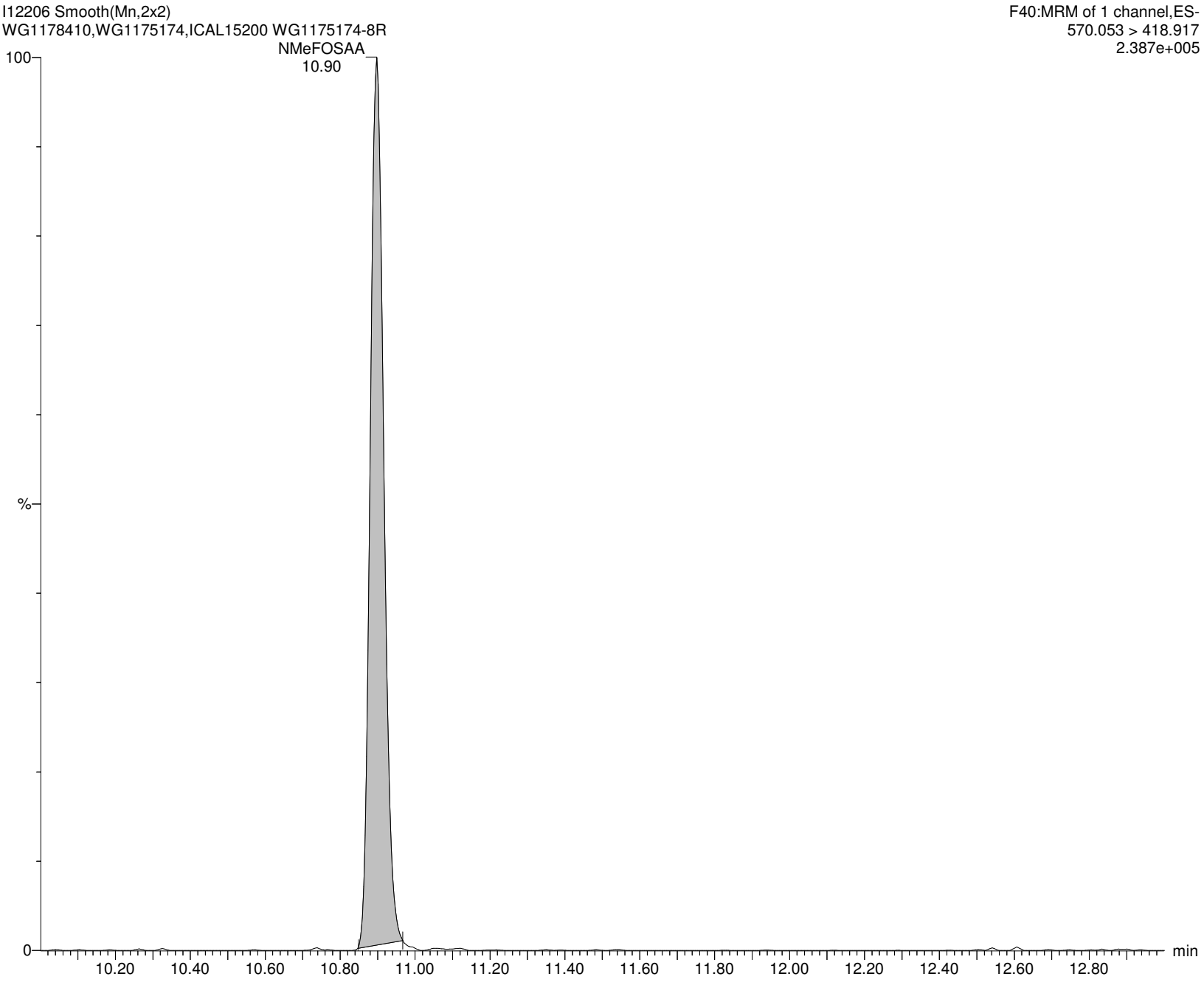
NMeFOSAA



all concentration units in (ng/mL)

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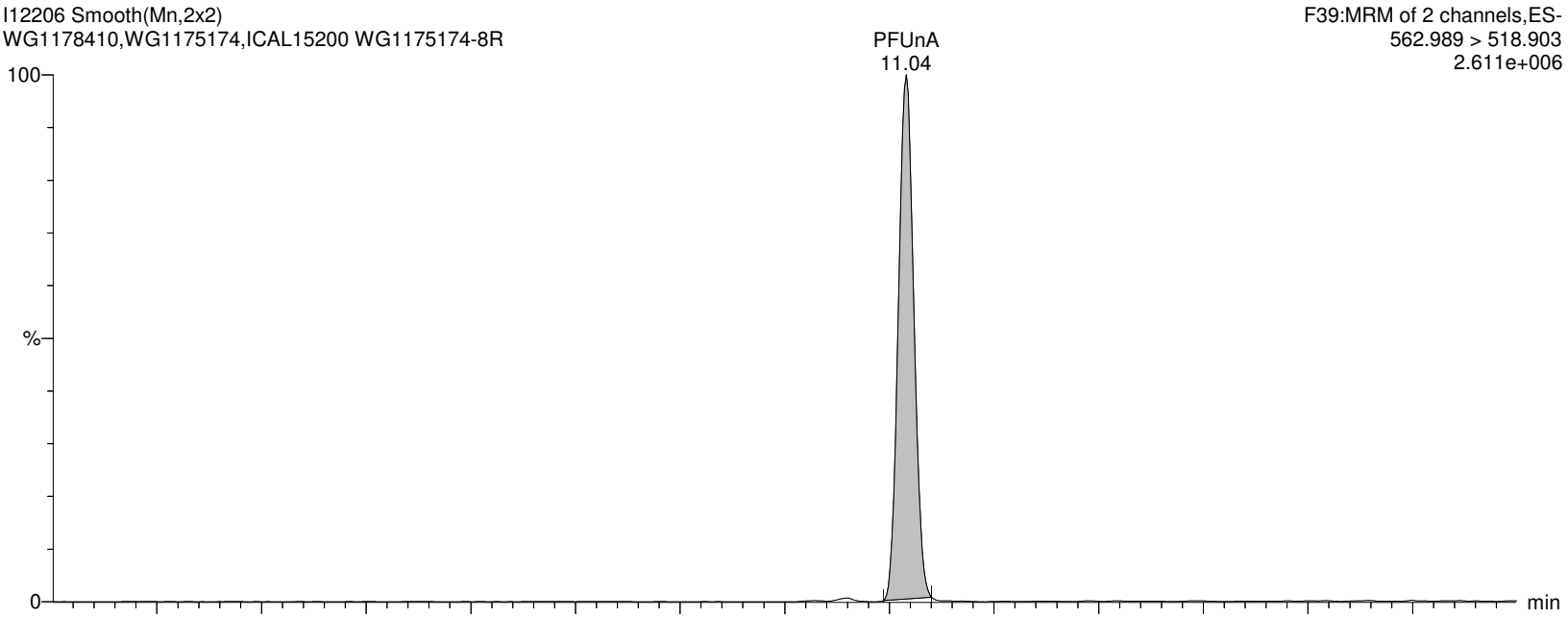

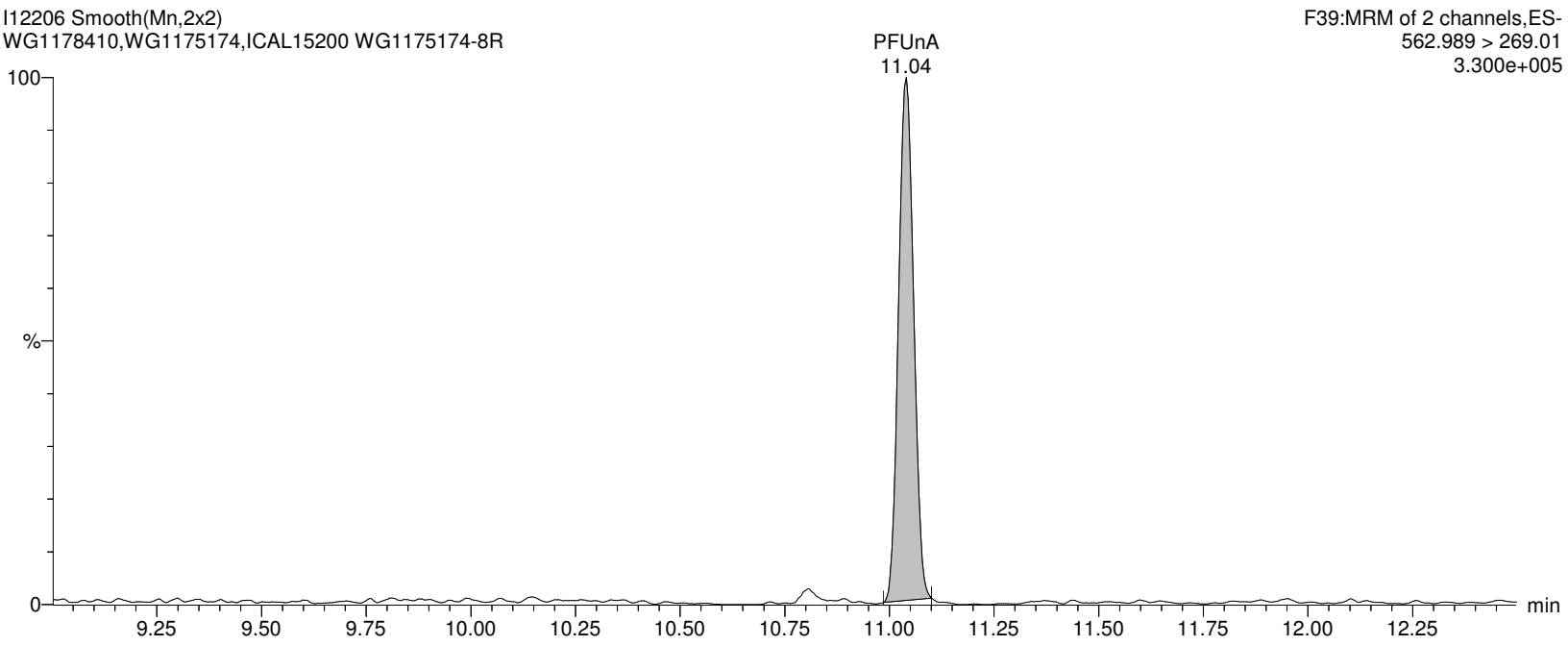

all concentration units in (ng/mL)

Alpha Analytical Inc.
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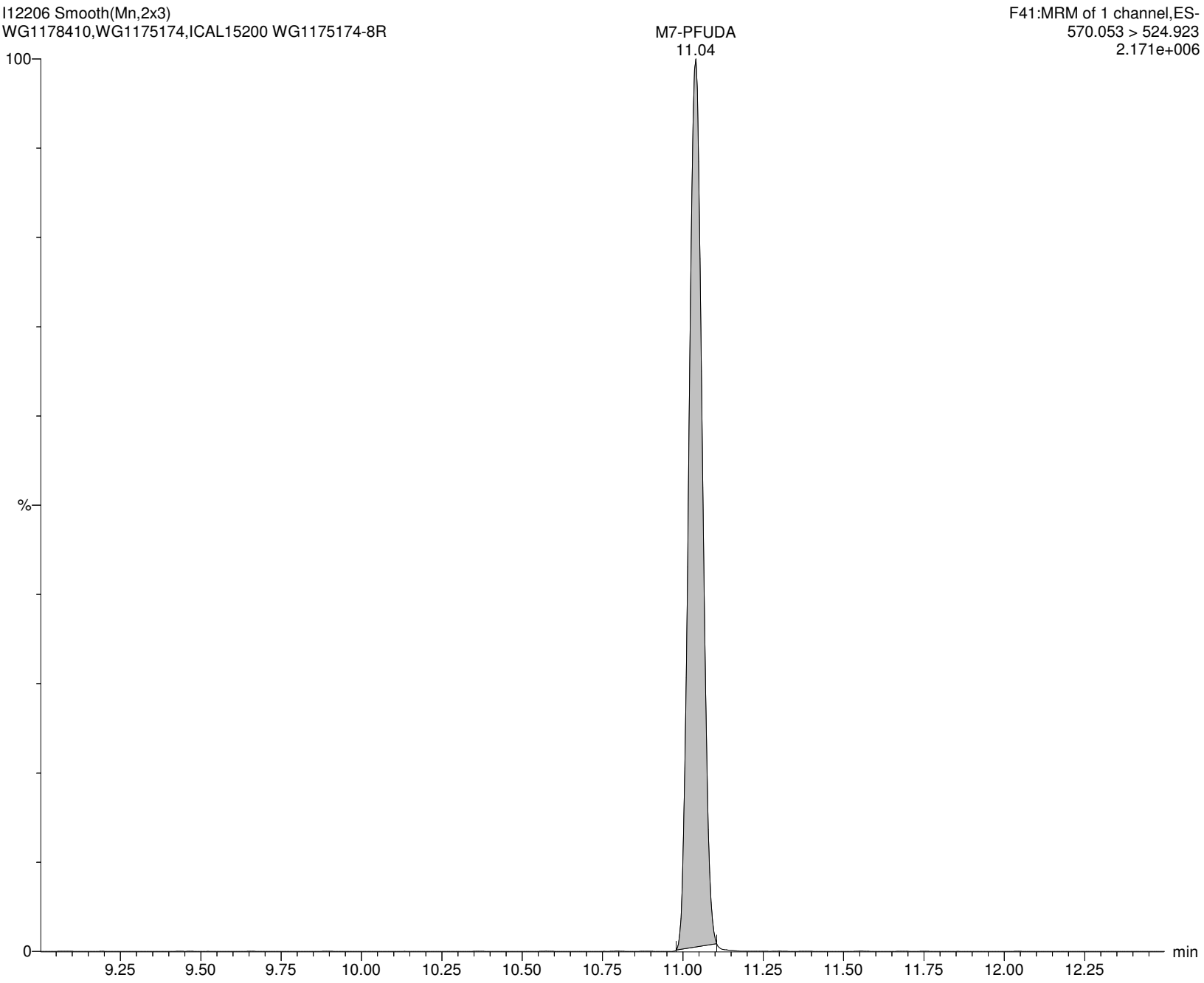

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
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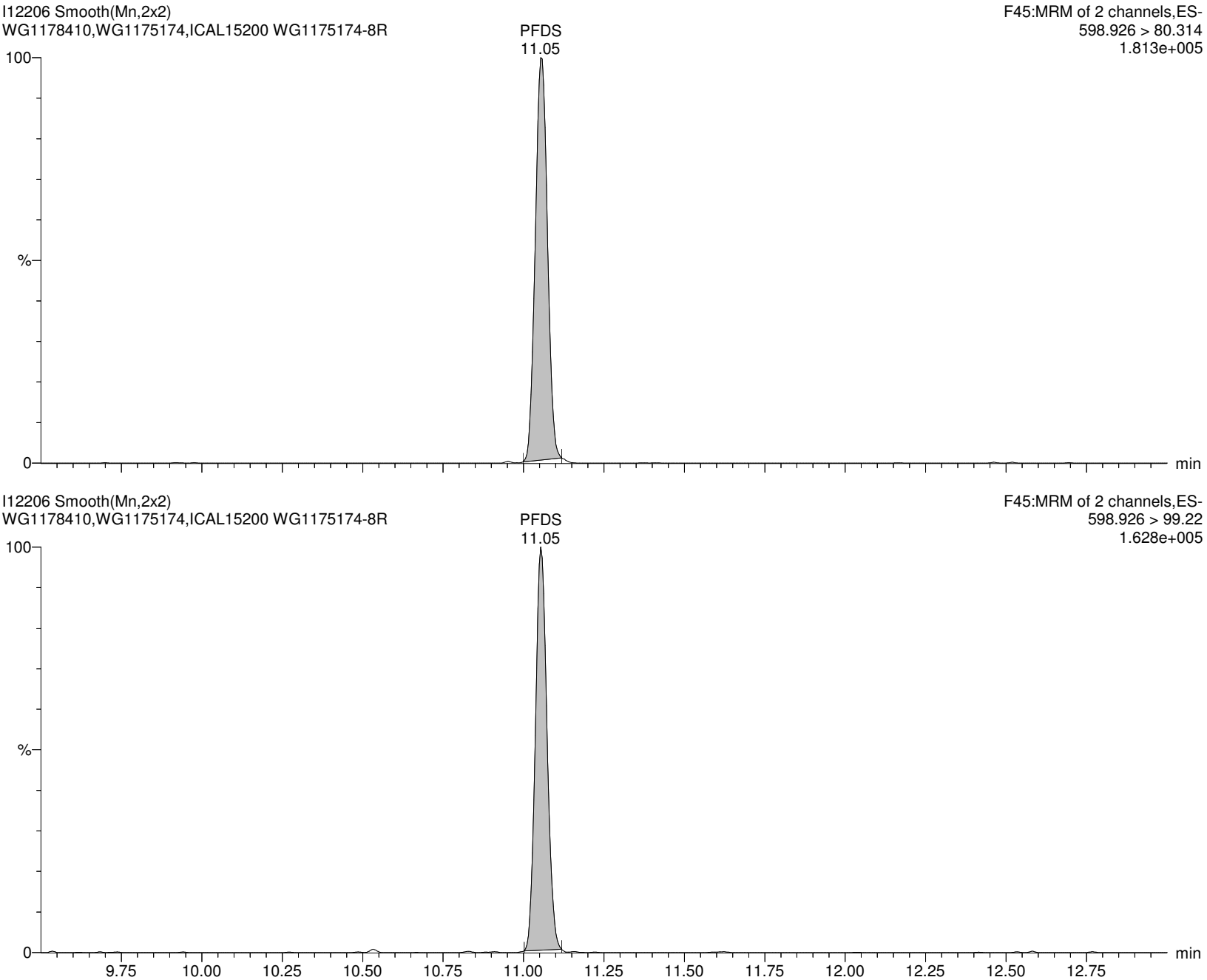

all concentration units in (ng/mL)

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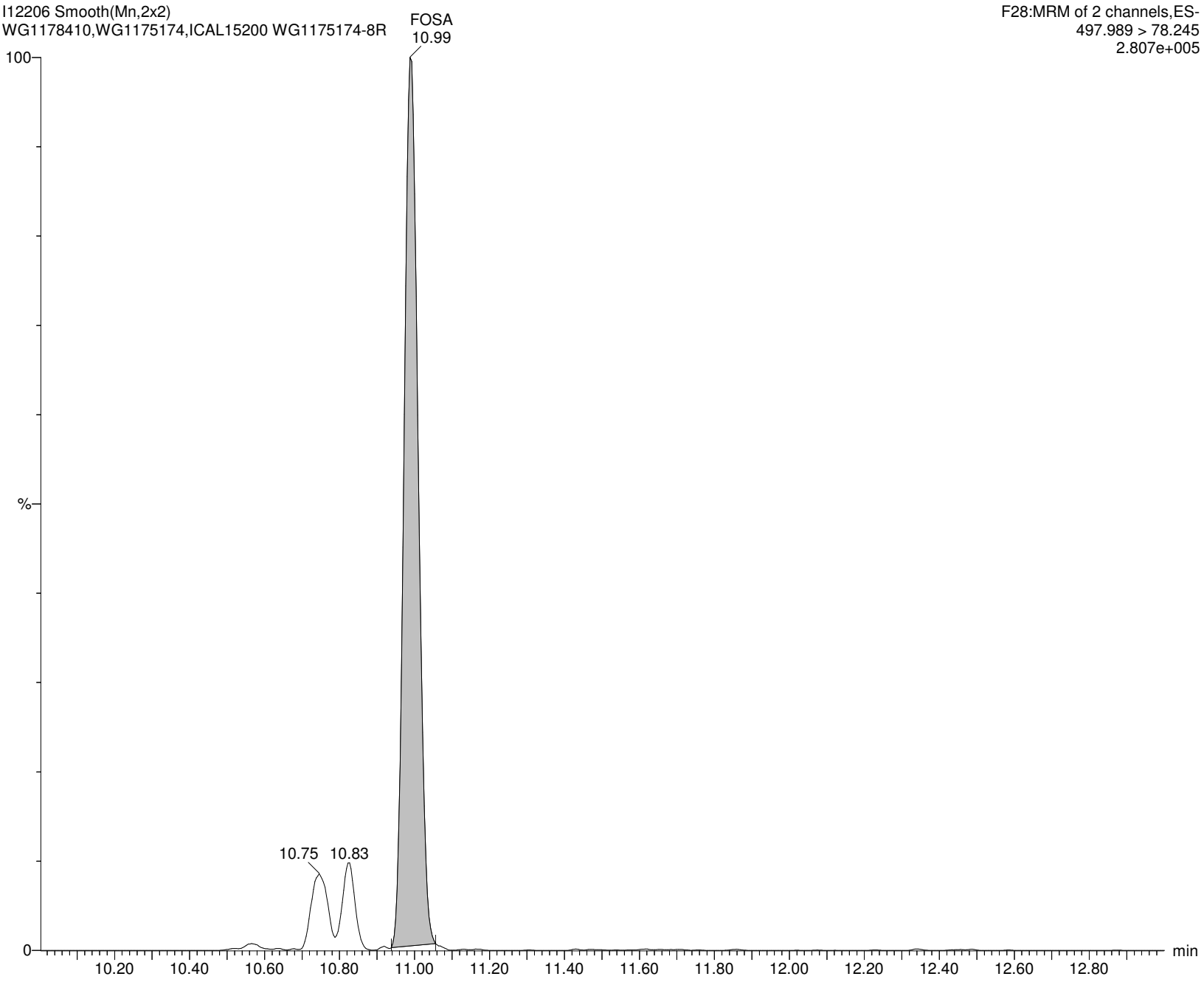

all concentration units in (ng/mL)

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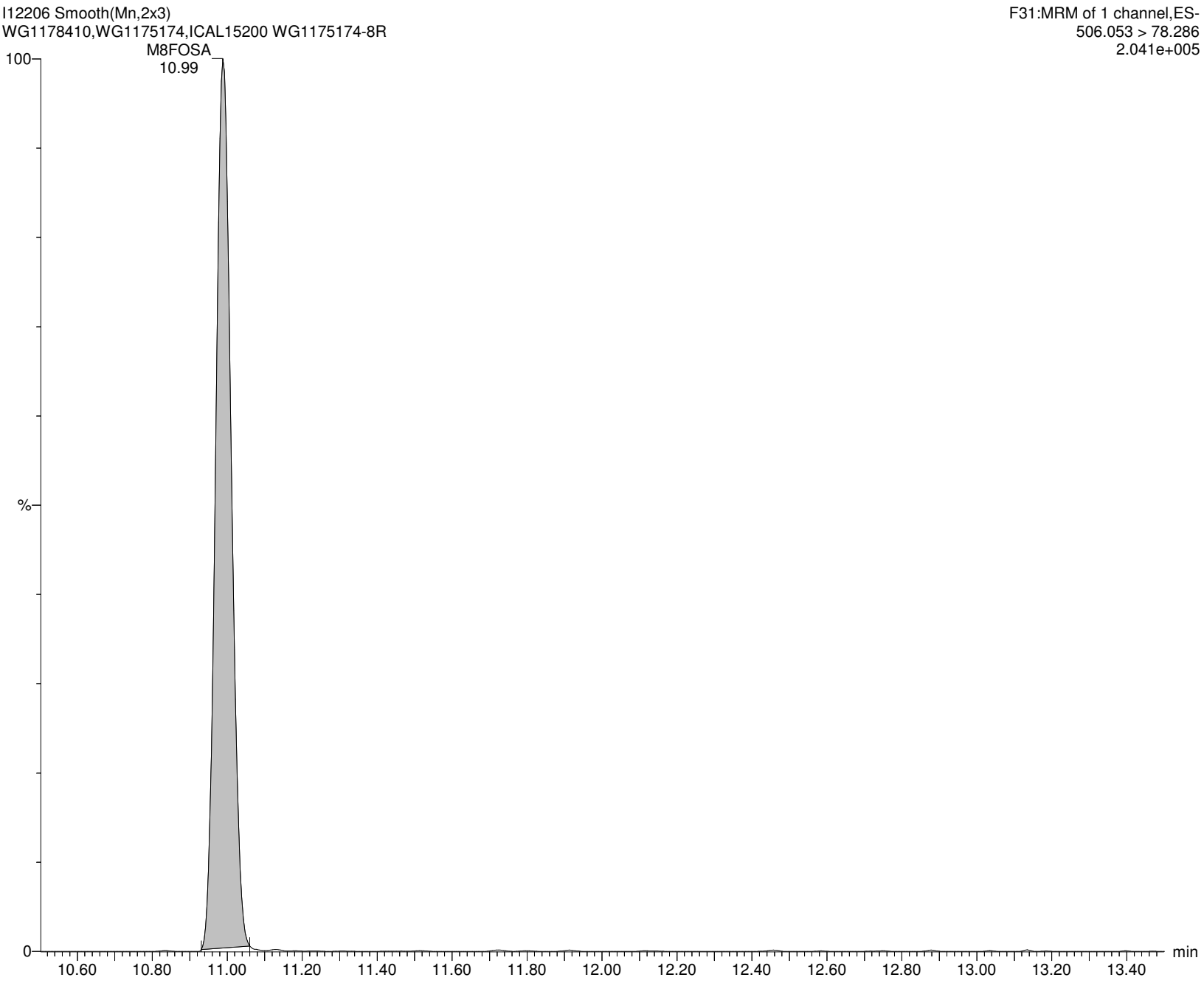

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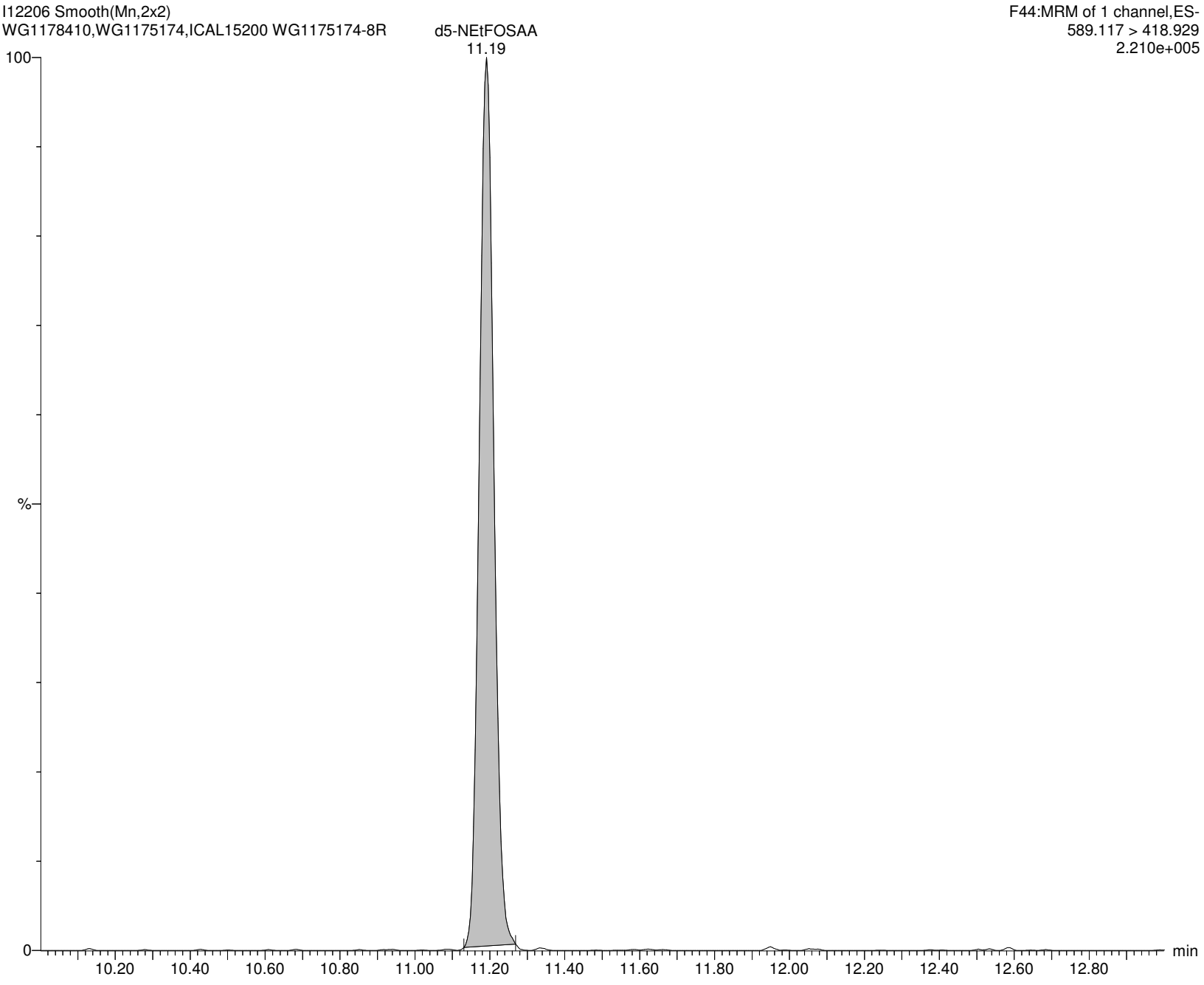
d5-NEtFOSAA



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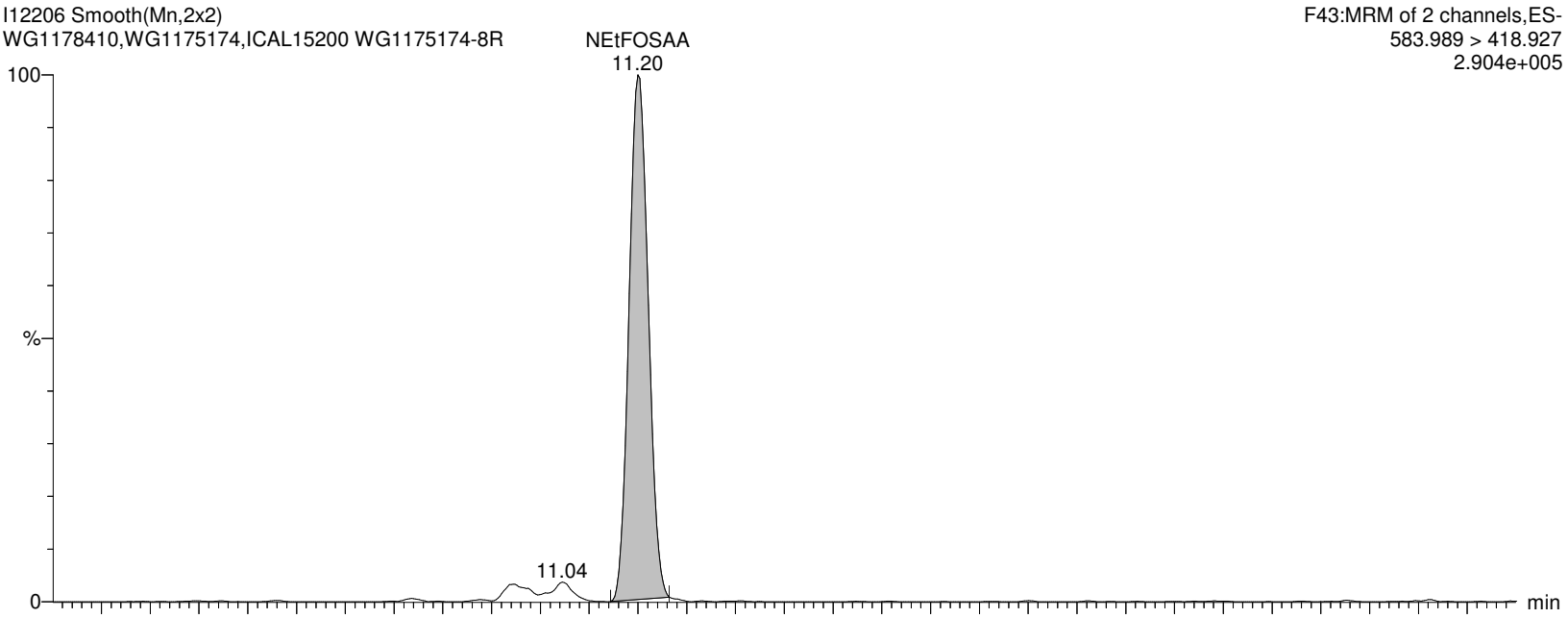

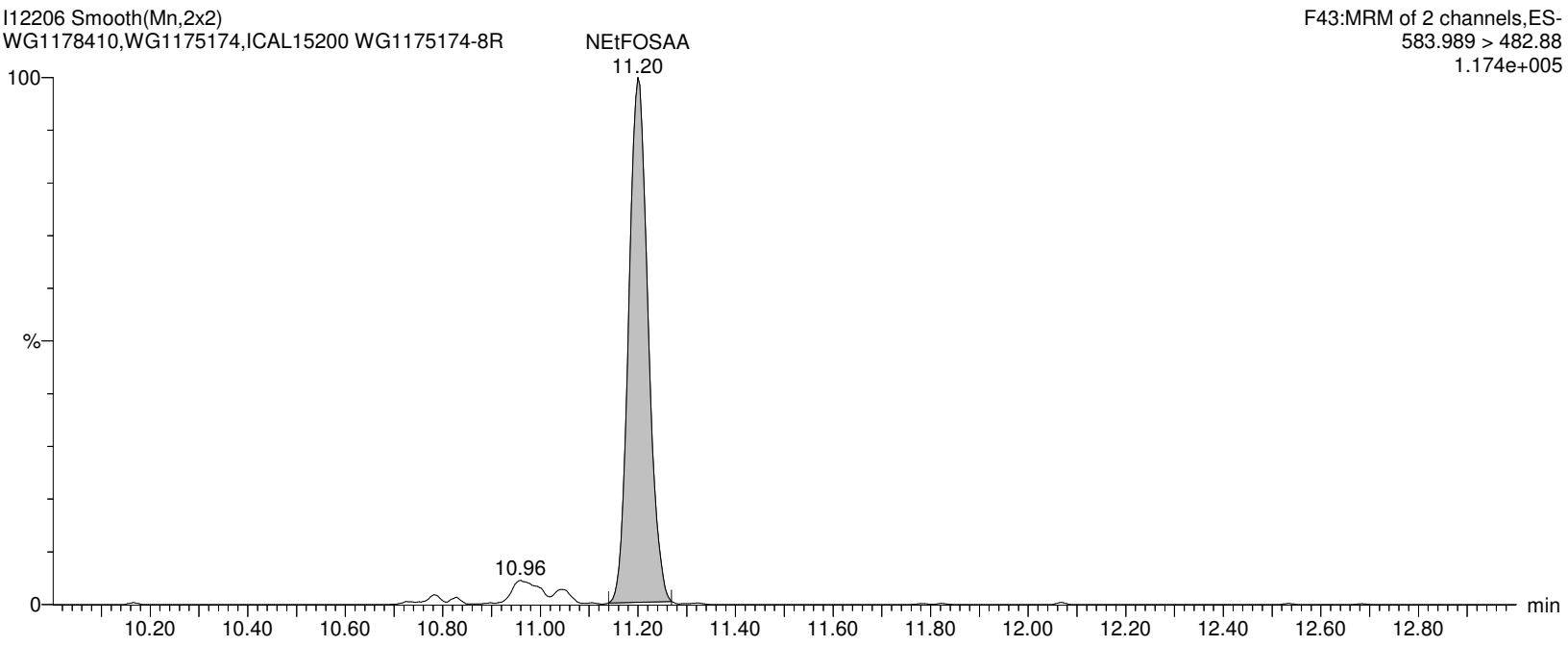

all concentration units in (ng/mL)

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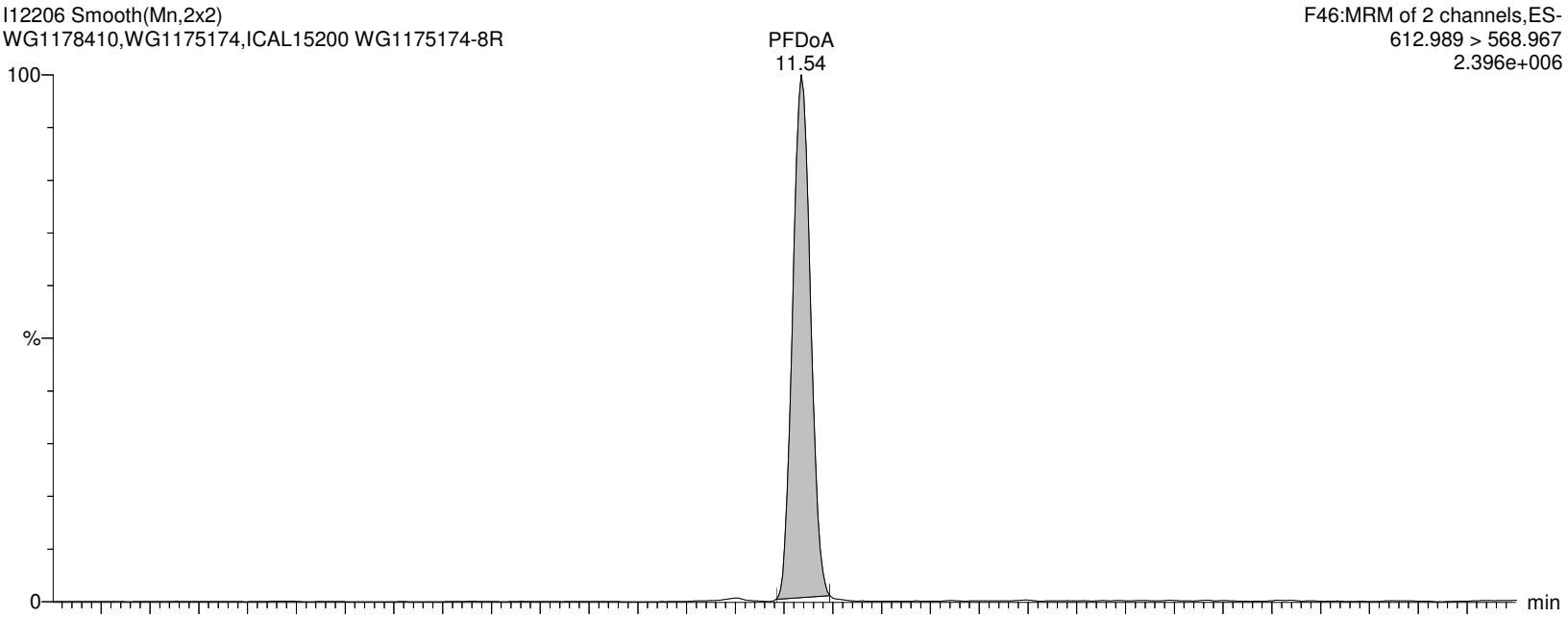

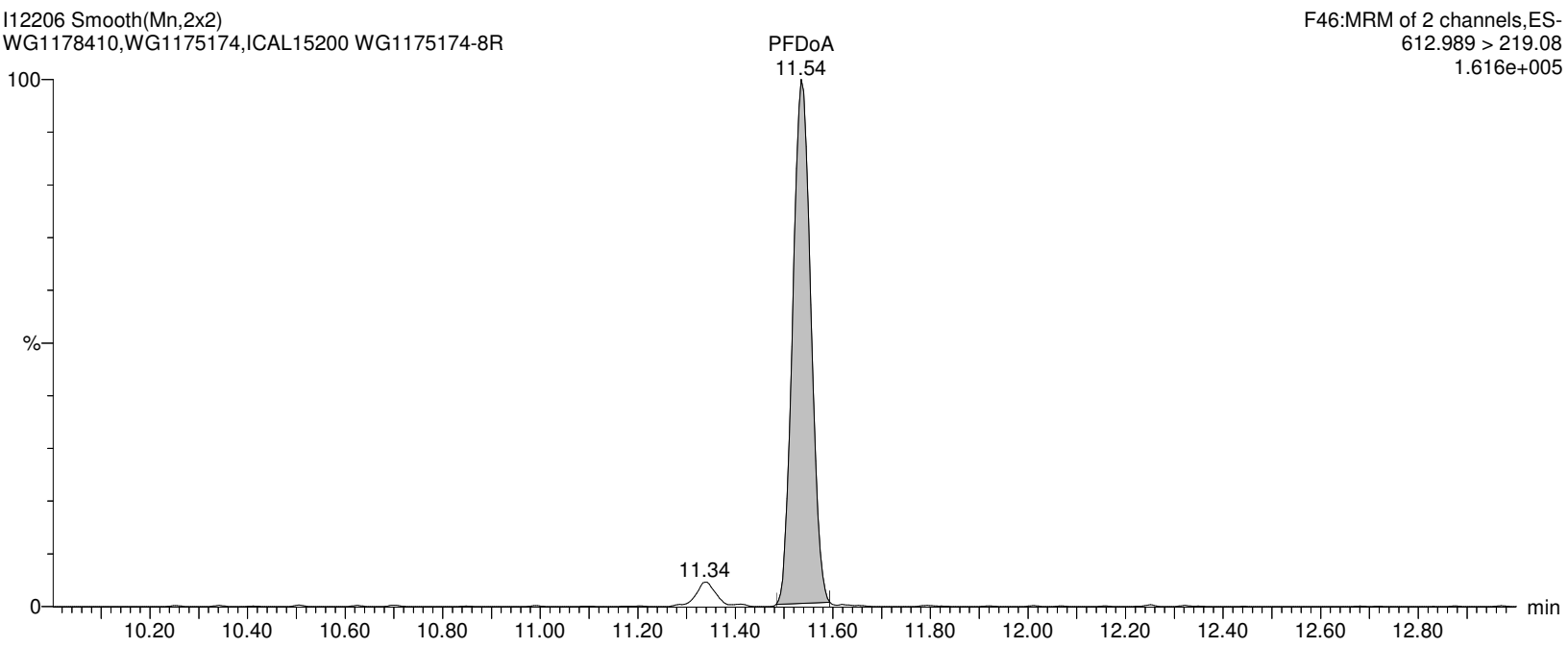

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:43 Eastern Standard Time

Name: I12206
ID: WG1175174-8R
Date: 12-Nov-2018
Time: 19:35:04
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:E,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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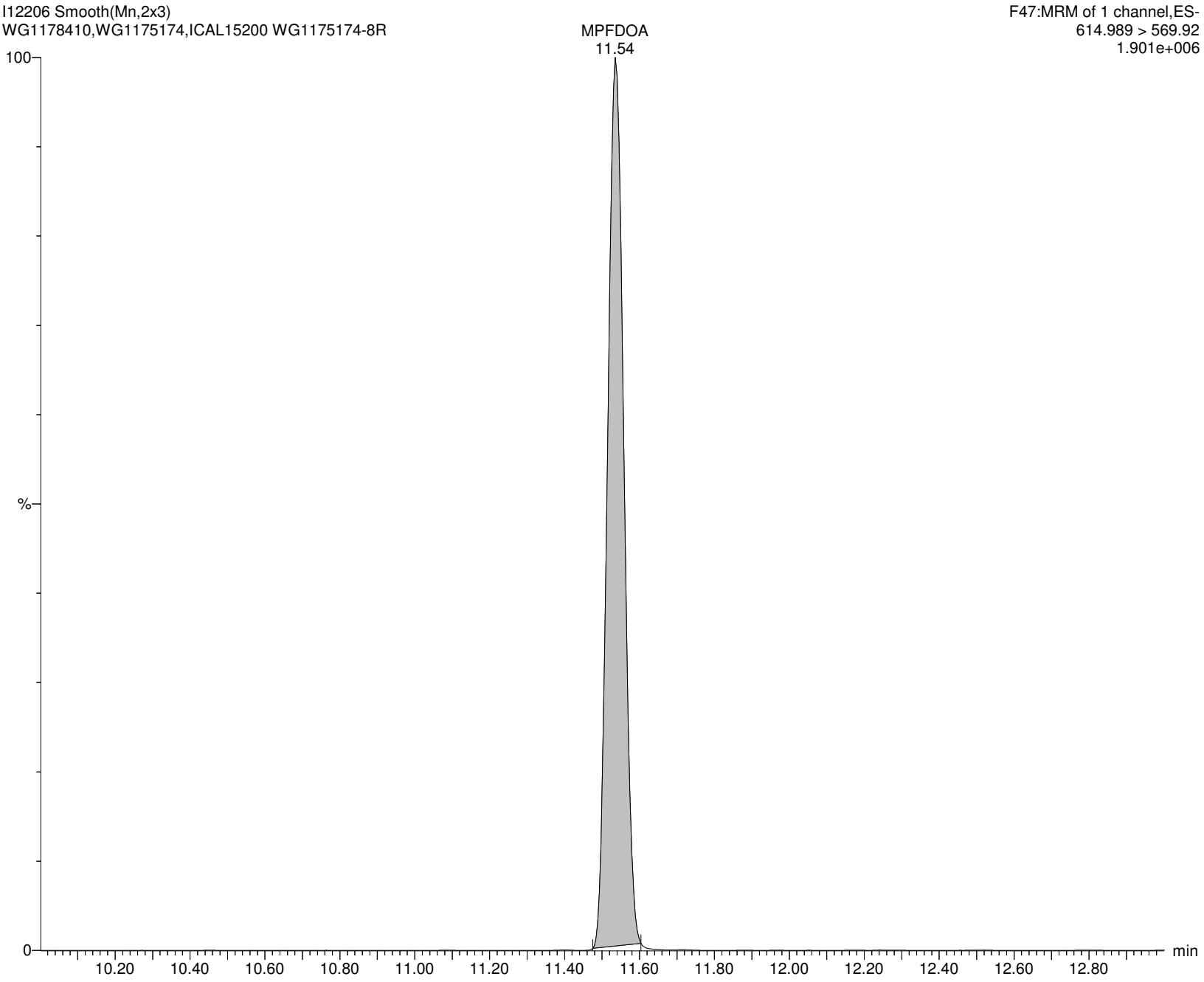

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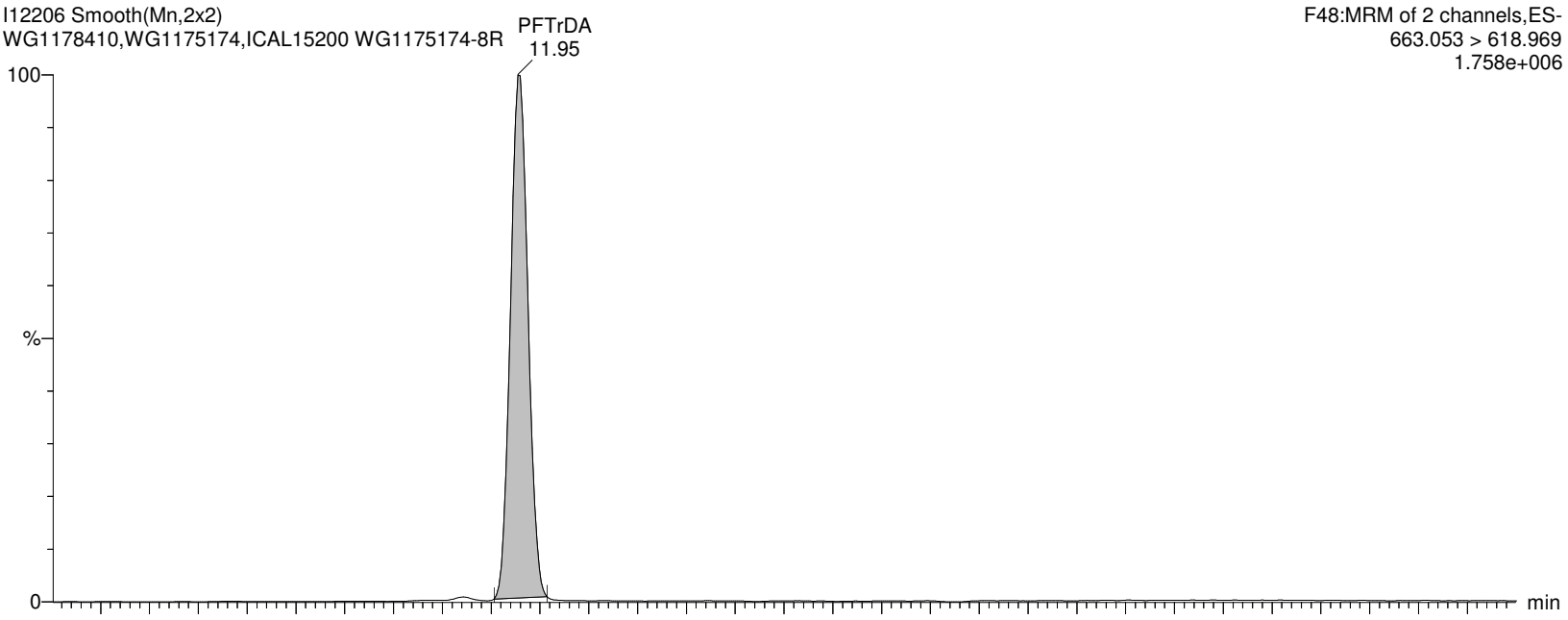

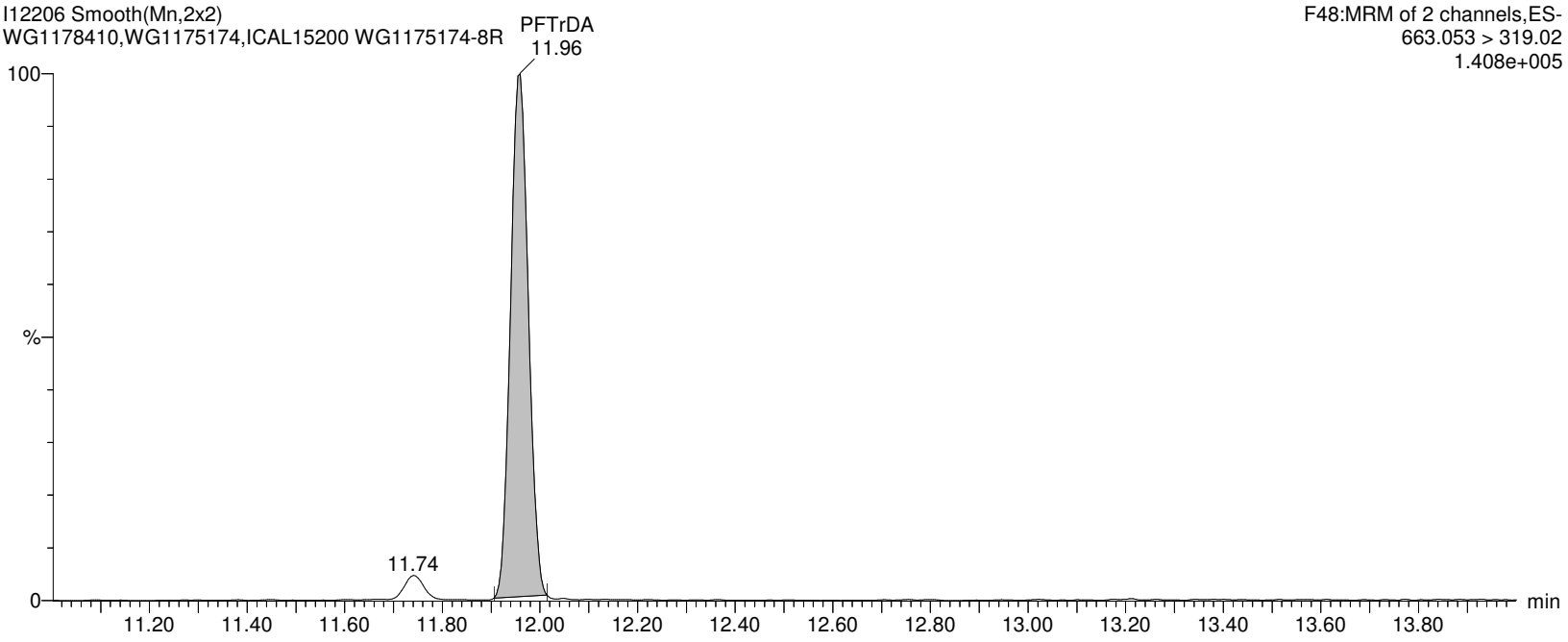

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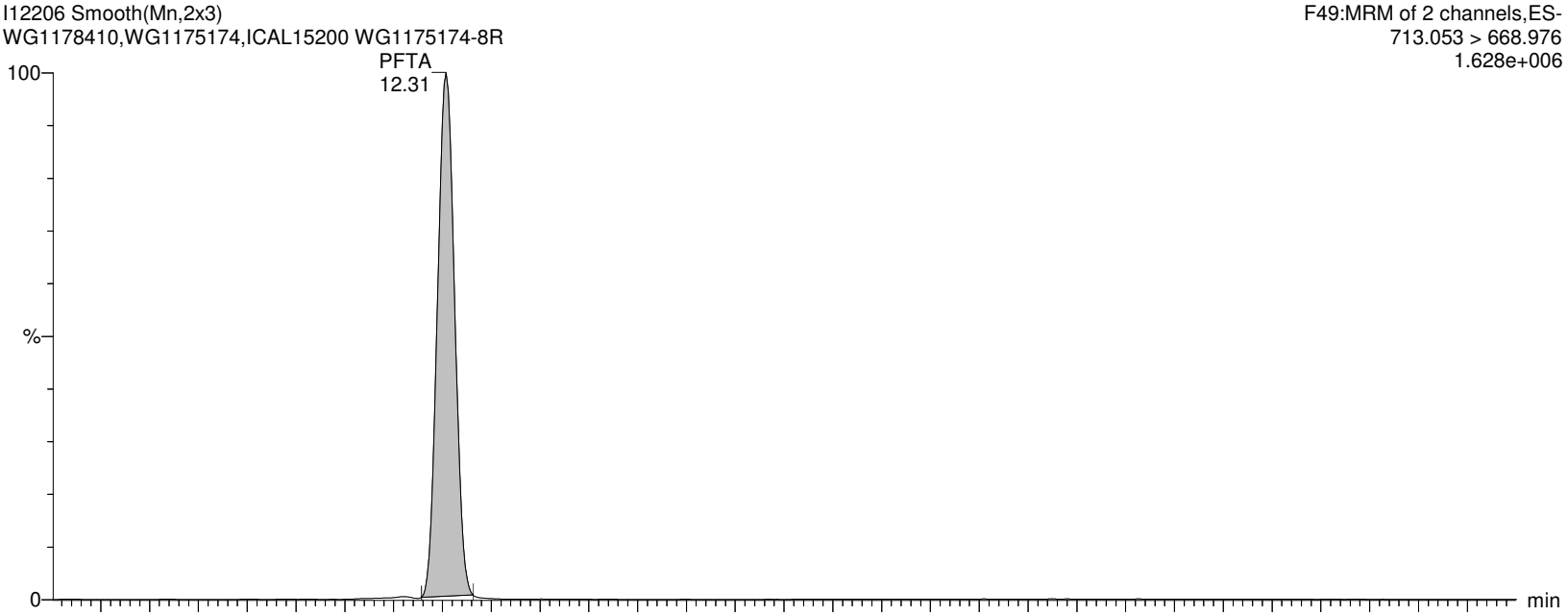

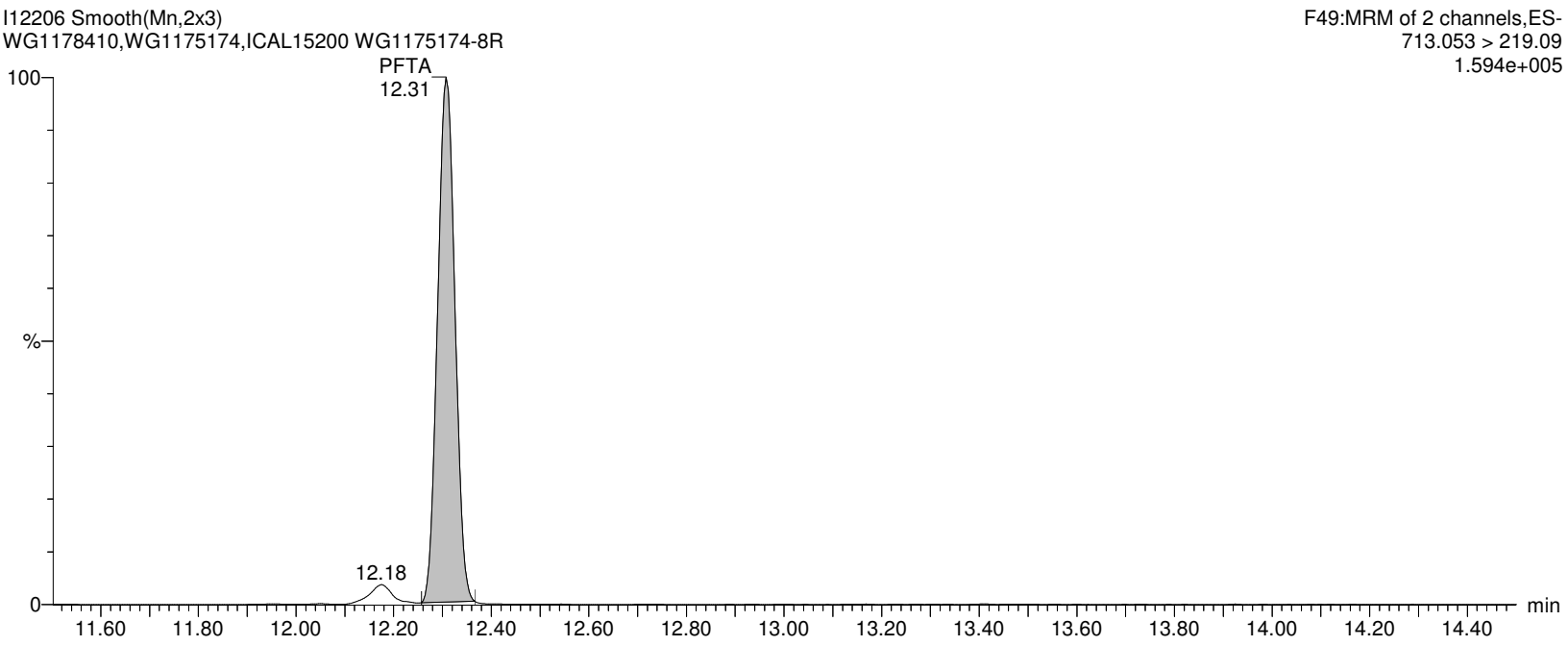

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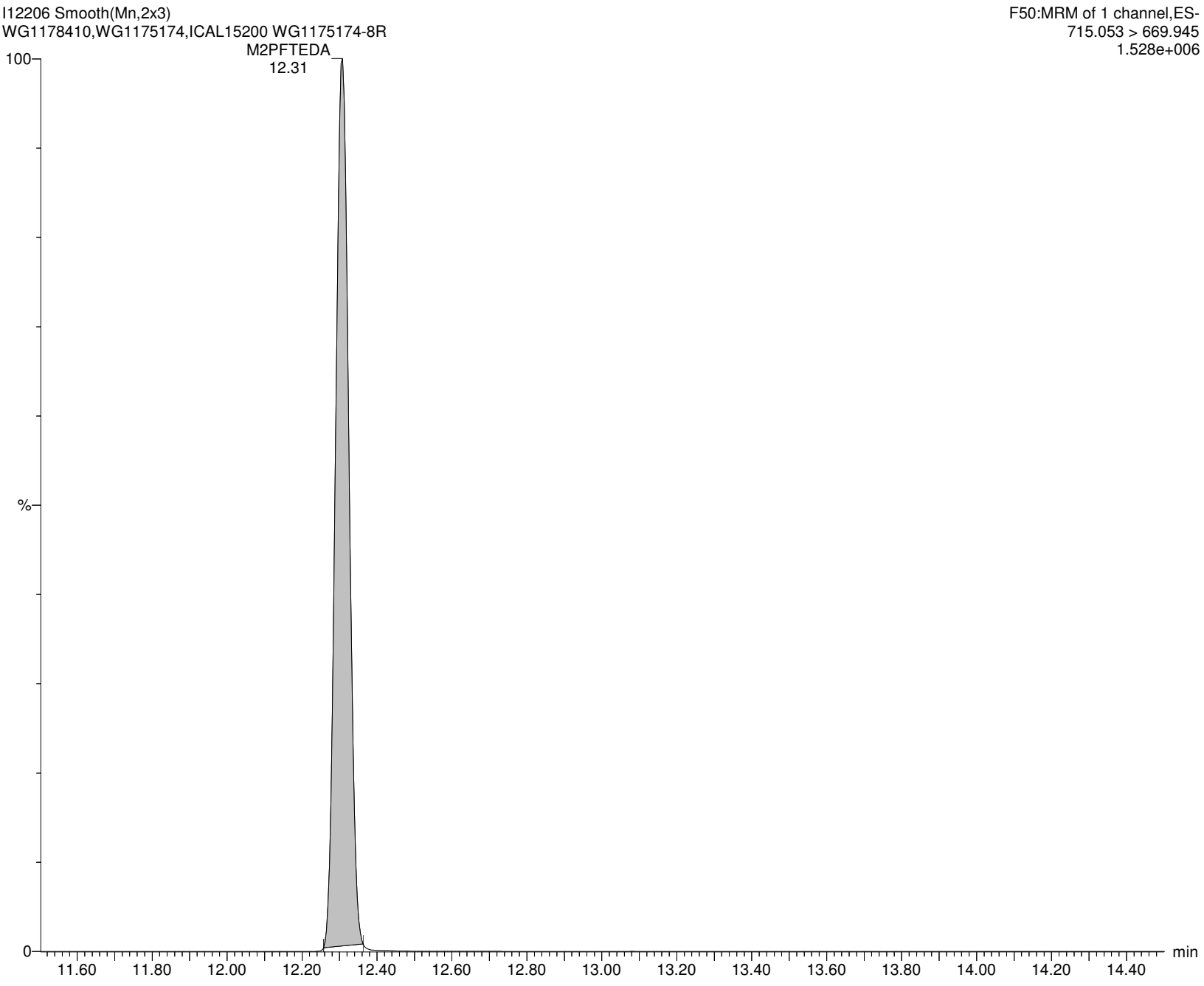

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Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:51 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1175174-5
Name: I12151
Date: 10-Nov-2018
Time: 06:35:15
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.15	212.926 > 169.111	46122		10.236		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	40769		4.404		na	44.0
3	MPFBA	INT STD	2.15	216.926 > 172.137	51547		13.311		na	133.1
4	PFPeA	2706-90-3	5.12	262.926 > 219.002	63238		8.971		na	
5	M5PFPEA	INT STD	5.12	267.989 > 223.081	74792		14.966		na	149.7
6	PFBS	375-73-5	5.80	298.989 > 80.295	12886		9.937		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	14627		11.162		na	111.6
8	4:2FTS	757124-72-4	6.98	326.926 > 306.957	6789		8.339	1.88	YES	
9	M2-4:2FTS	INT STD	6.98	329.117 > 309.079	8212		10.103		na	101.0
10	PFHxA	307-24-4	7.06	312.989 > 269.028	88364		9.340	19.05	NO	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	97488		12.512		na	125.1
12	PFPeS	2706-91-4	7.38	348.926 > 80.251	13560		7.507	1.98	NO	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	105505		8.469	5.31	NO	
14	M4PFHpA	INT STD	8.33	366.926 > 321.979	126536		13.812		na	138.1
15	br-PFHxS	355-46-4	8.26	398.926 > 80.295	1903		1.120	2.20	YES	
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	10987		7.463	1.46	NO	
17	PFHxS	355-46-4		398.926 > 80.295	12891		8.584		na	
18	M3PFHxS	INT STD	8.49	401.926 > 80.317	10440		14.345		na	143.4
19	br-PFOA	335-67-1	9.04	412.989 > 368.9	1461		0.123	3.93	YES	
20	L-PFOA	335-67-1	9.27	412.989 > 368.9	104087		8.744	9.37	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	108151		5.728		na	57.3
22	PFOA	335-67-1		412.989 > 368.9	105548		8.867		na	
23	M8PFOA	INT STD	9.27	420.989 > 375.979	122008		13.989		na	139.9
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	4632		9.357		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	5060		7.500		na	75.0
26	PFHpS	375-92-8	9.37	448.926 > 80.257	6463		8.189	0.82	NO	
27	PFNA	375-95-1	10.02	462.989 > 418.931	79117		8.794	4.42	NO	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	107722		12.383		na	123.8
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	3486		1.866	3.72	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	7874		5.914	1.84	YES	
31	PFOS	1763-23-1		498.989 > 80.294	11360		7.780		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10512		6.489		na	64.9
33	M8PFOS	INT STD	10.07	507.053 > 80.294	12748		13.005		na	130.0
34	PFDA	335-76-2	10.65	513.053 > 468.906	73685		8.591	5.95	NO	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	82510		5.550		na	55.5
36	M6PFDA	INT STD	10.65	519.053 > 473.931	96691		12.979		na	129.8
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	2922		8.583		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2817		7.109		na	71.1
39	PFNS	68259-12-1	10.67	548.989 > 80.249	8103		8.935	1.29	NO	

all concentration units in (ng/mL)

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Printed: Monday, November 12, 2018 13:06:51 Eastern Standard Time

ID: WG1175174-5
Name: I12151
Date: 10-Nov-2018
Time: 06:35:15
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	7386		9.197		na	92.0
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	6495		8.742		na	
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	69993		7.937	8.07	NO	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	88760		14.234		na	142.3
44	PFDS	335-77-3	11.20	598.926 > 80.314	6788		8.685	1.20	NO	
45	FOSA	754-91-6	11.10	497.989 > 78.245	9770		7.603		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	13136		4.942		na	49.4
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	6851		8.843		na	88.4
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	5052		7.213	2.53	YES	
49	PFDoA	307-55-1	11.66	612.989 > 568.967	65684		7.944	13.75	NO	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	88668		12.656		na	126.6
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	57347		8.248	12.30	NO	
52	PFTA	376-06-7	12.39	713.053 > 668.976	51325		8.888	9.47	NO	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	68772		13.252		na	132.5

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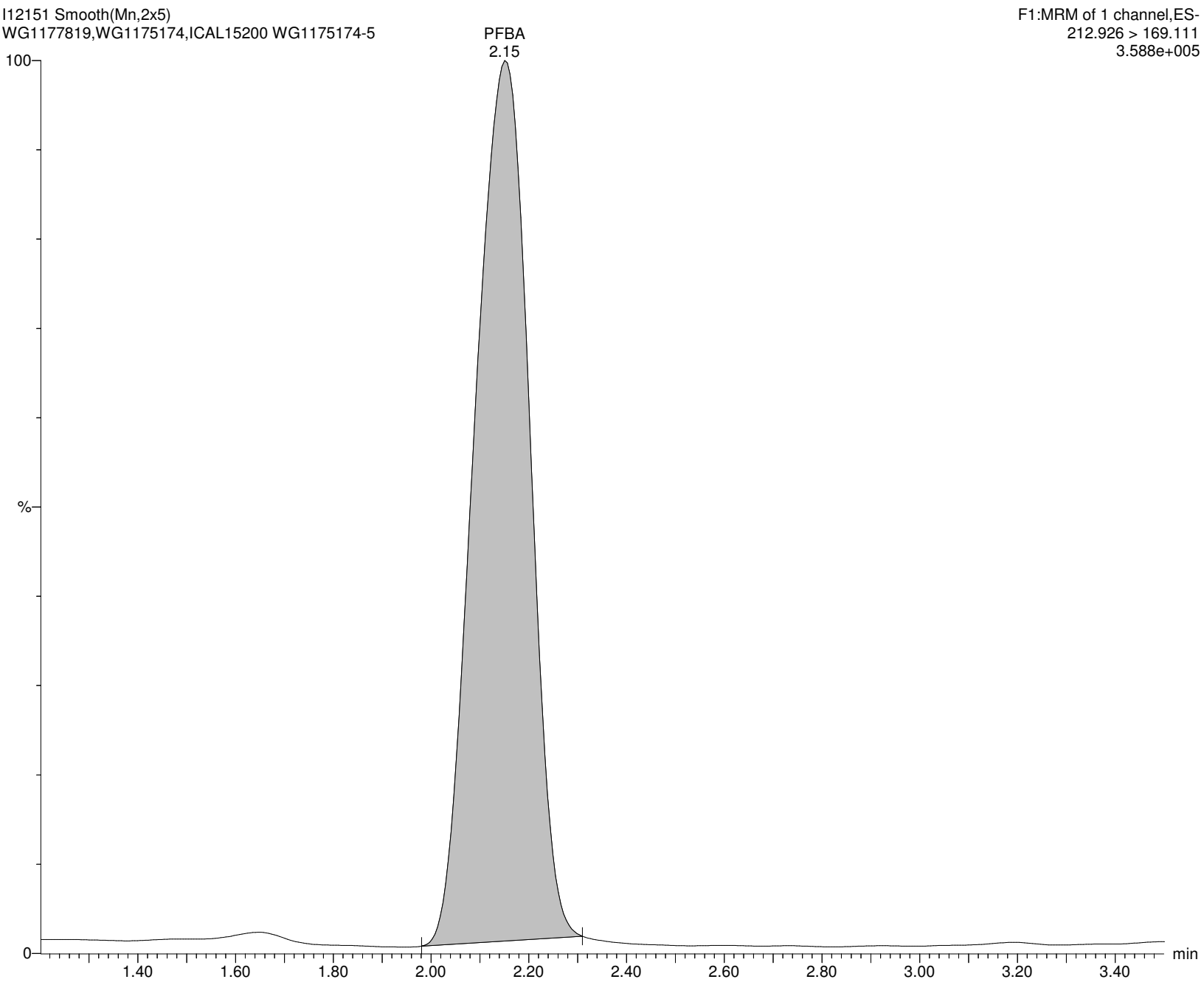

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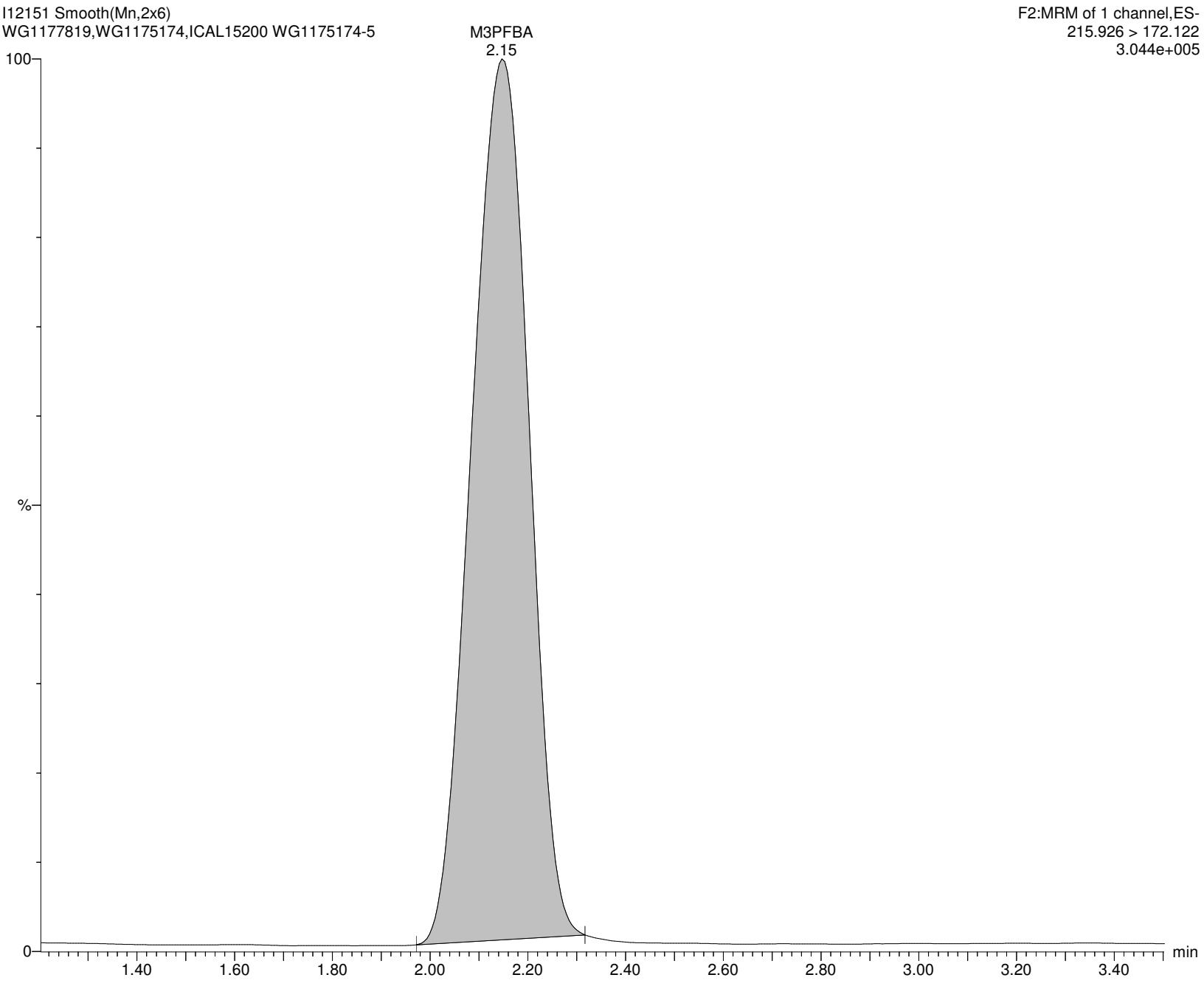

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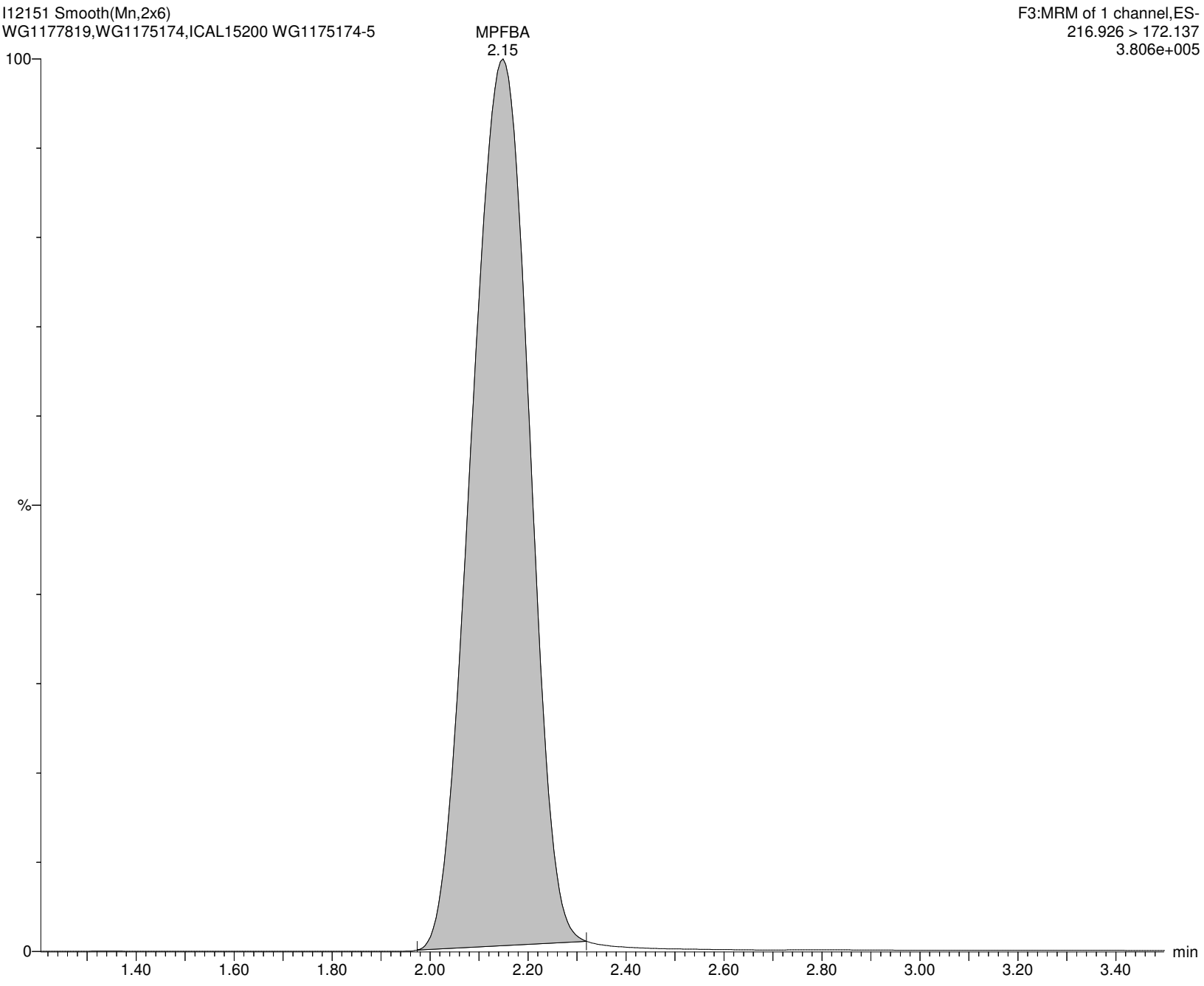

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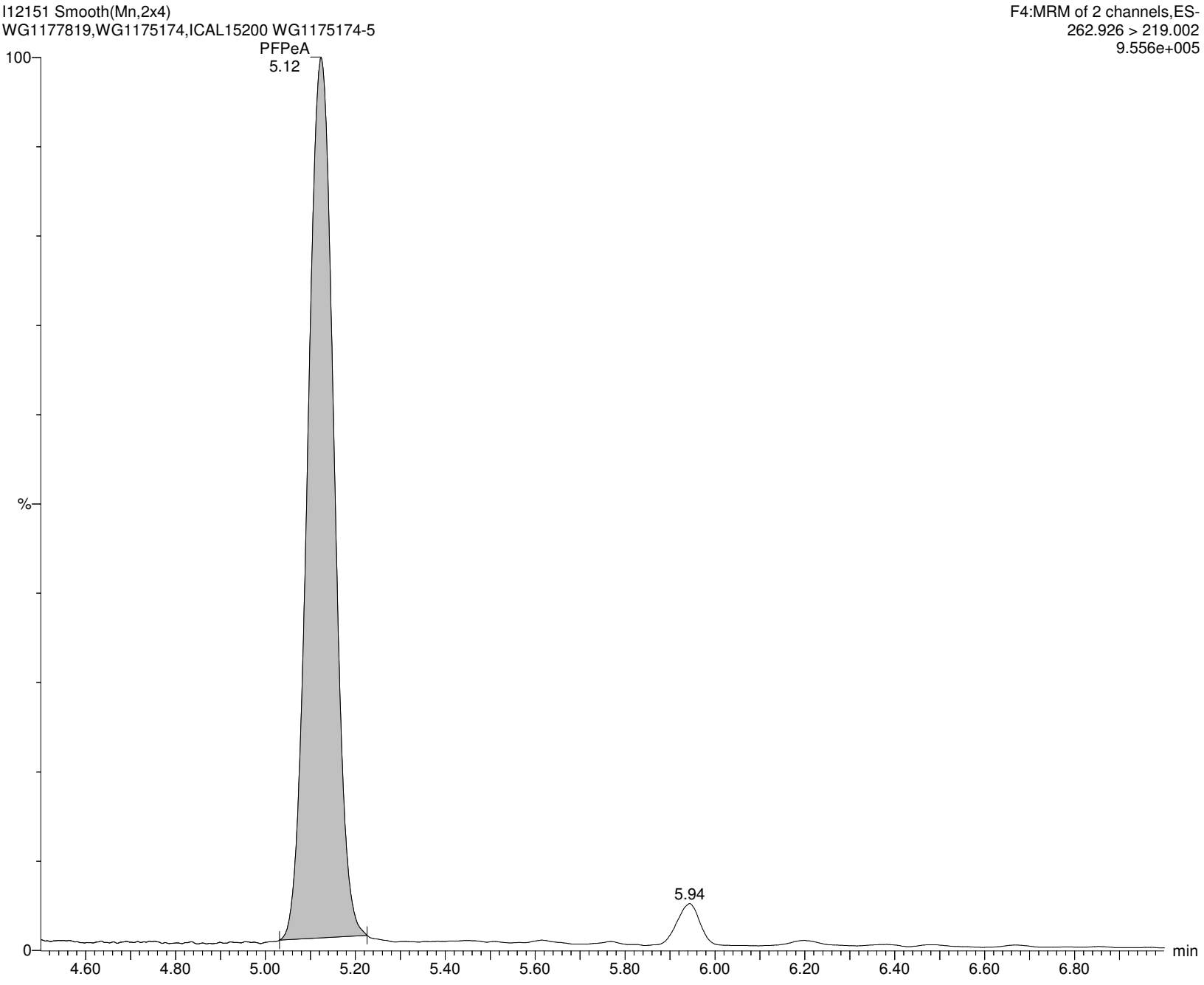

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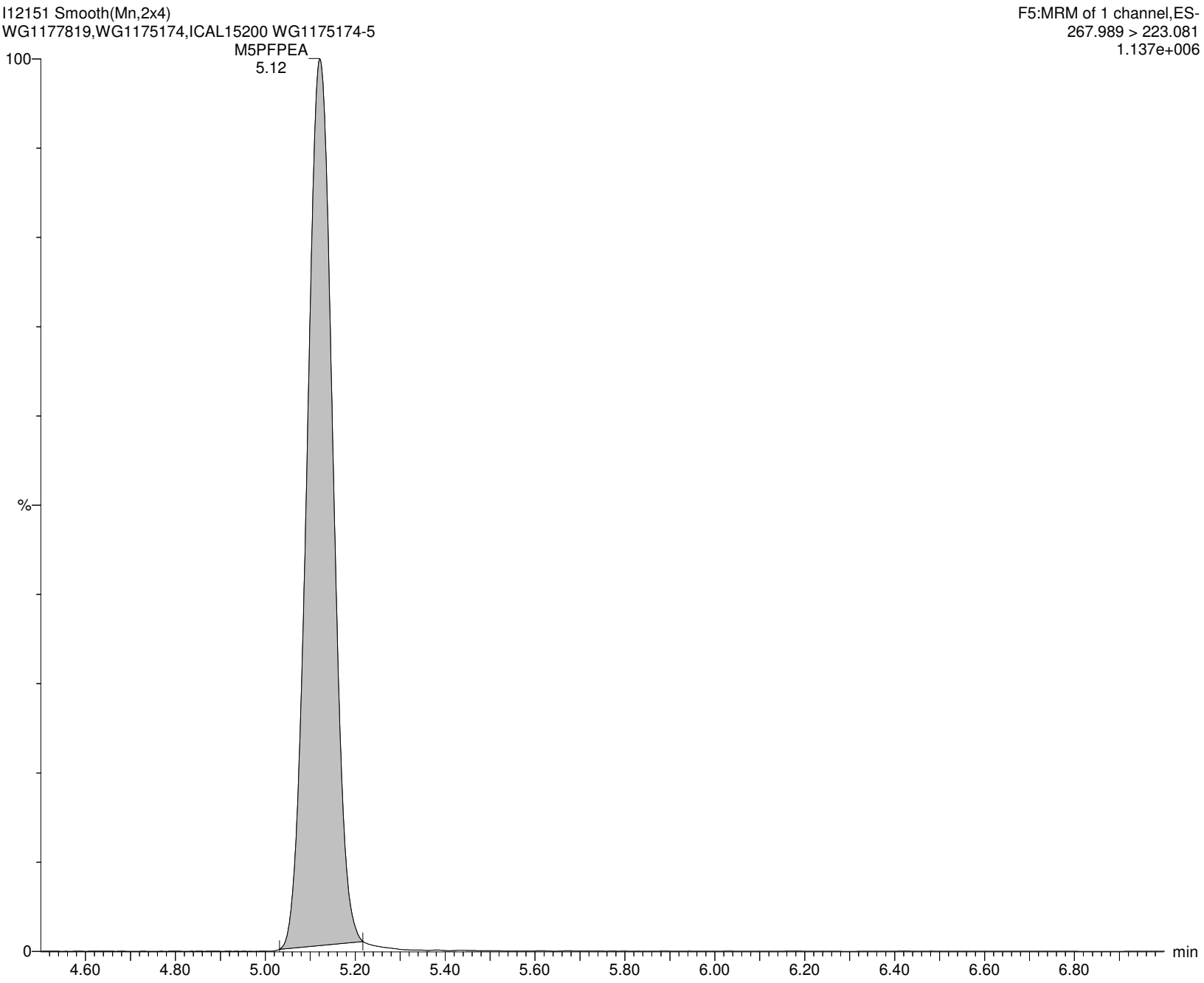

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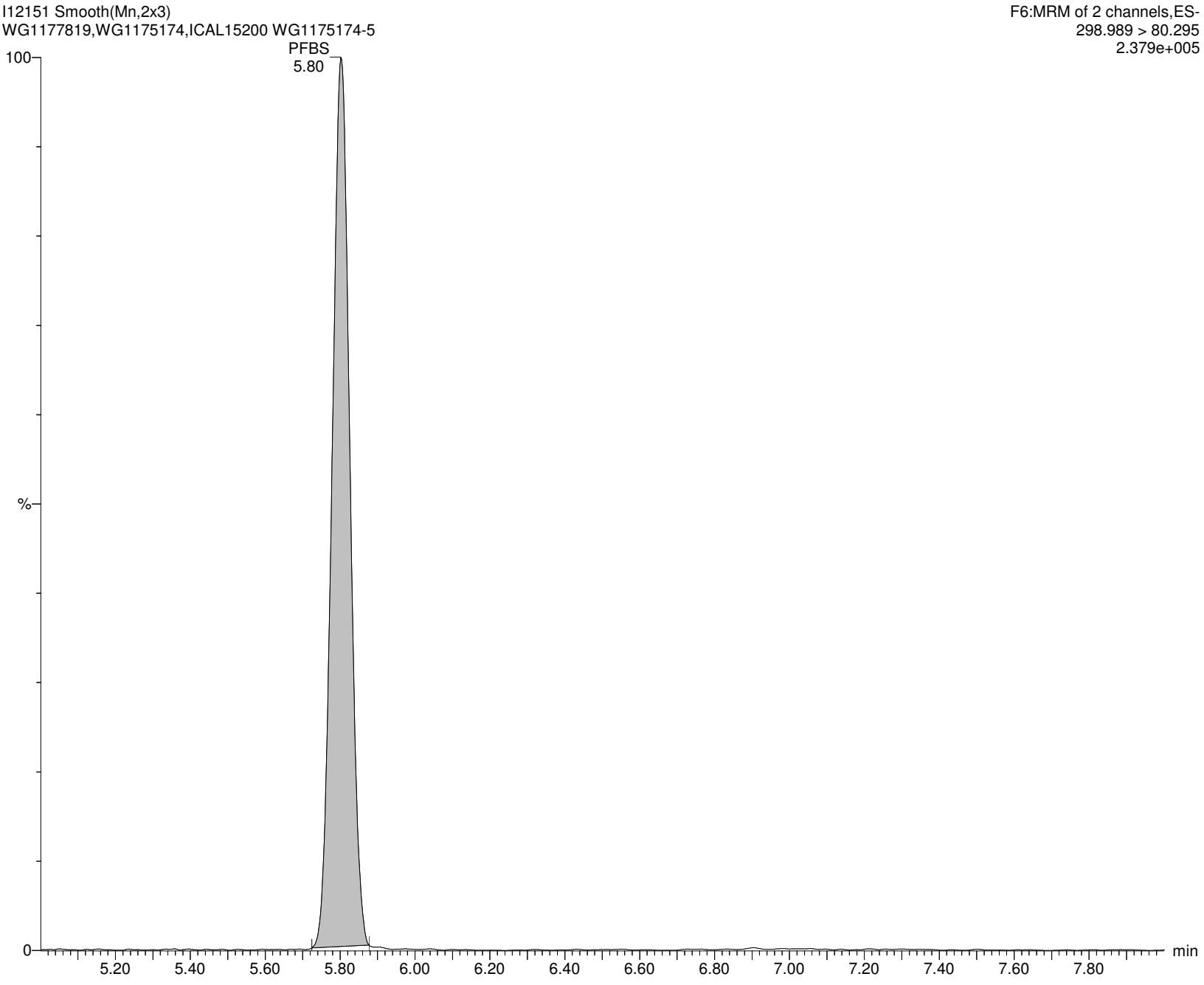

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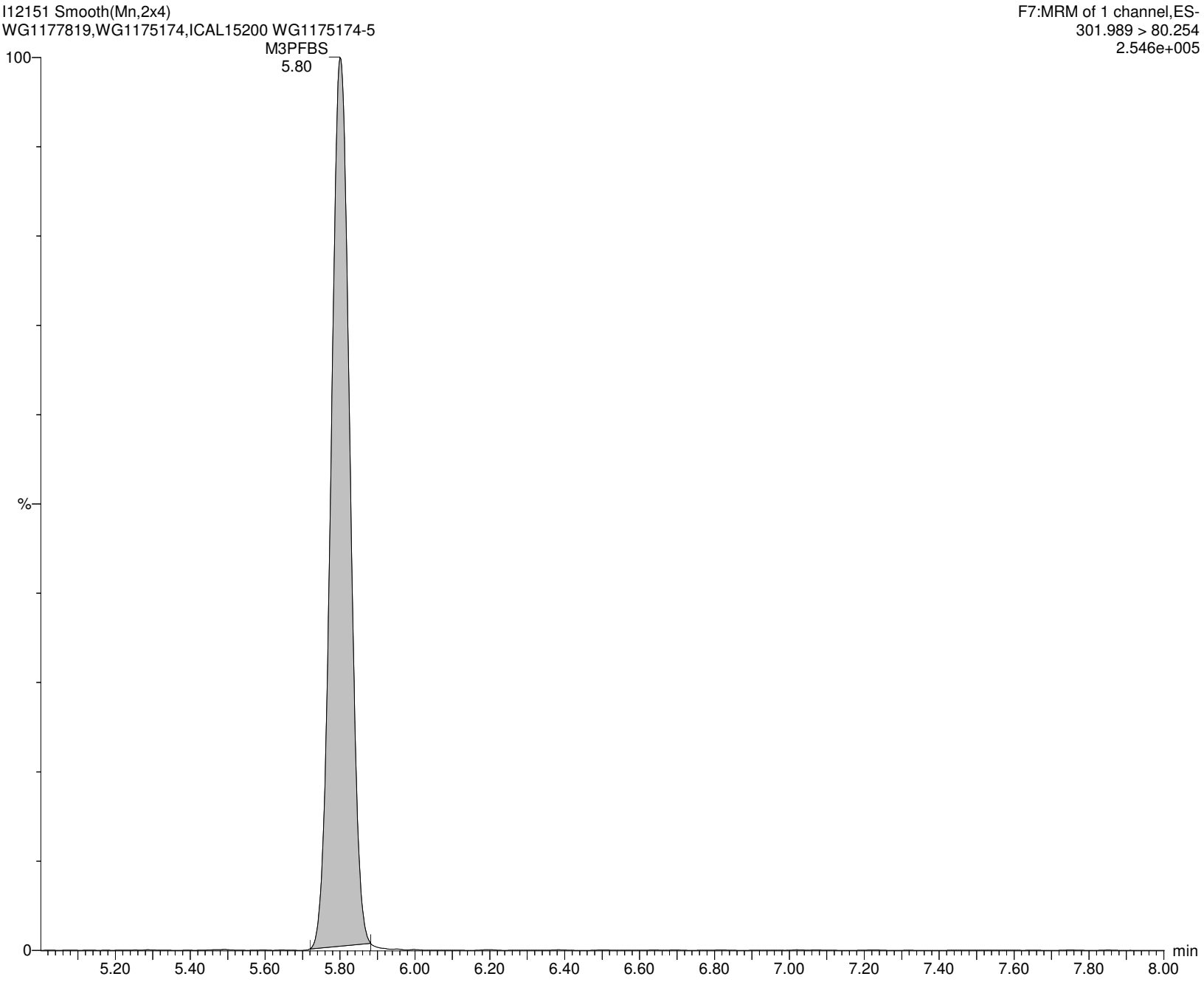
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:51 Eastern Standard Time

Name: I12151
ID: WG1175174-5
Date: 10-Nov-2018
Time: 06:35:15
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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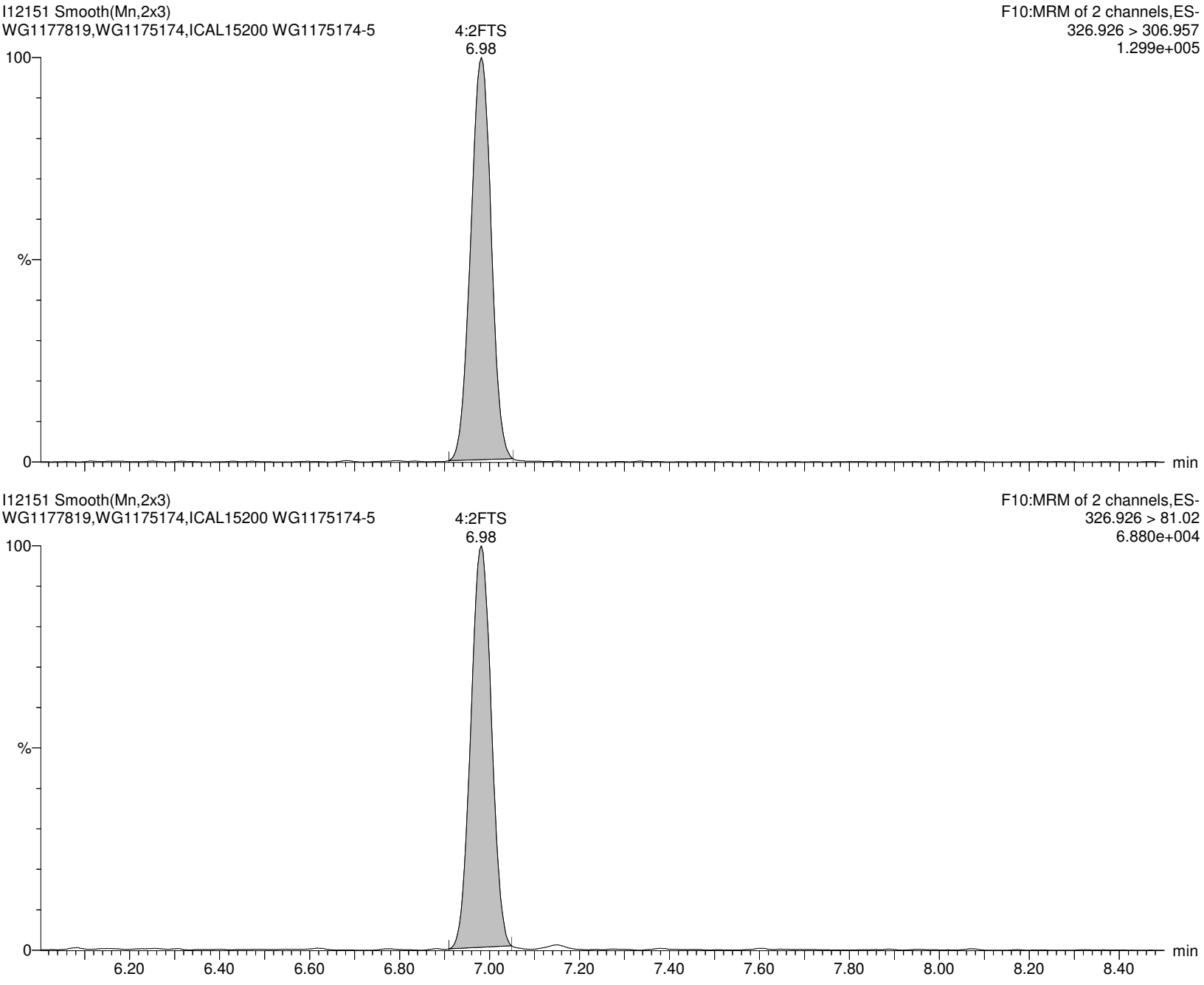

all concentration units in (ng/mL)

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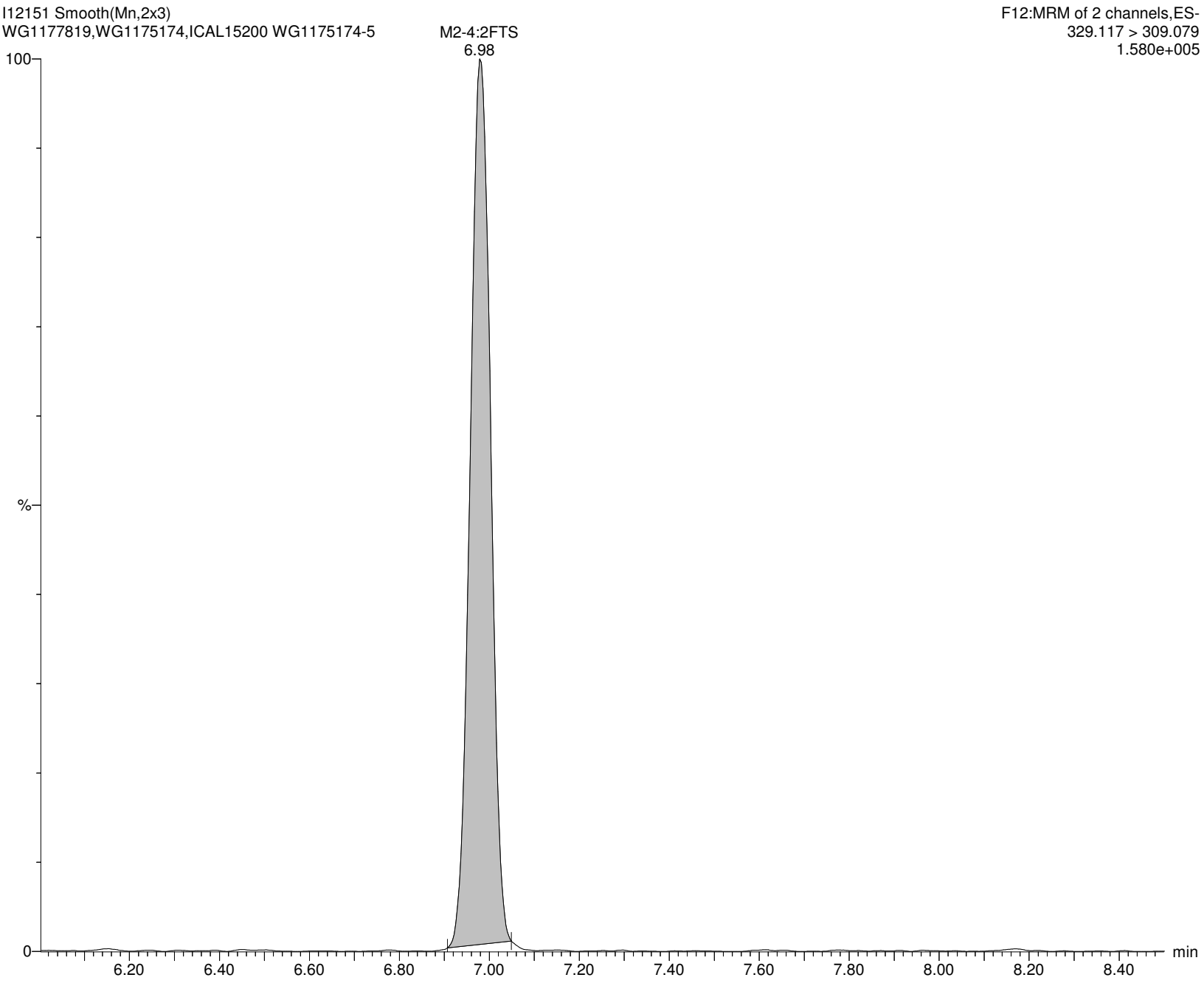
M2-4:2FTS



all concentration units in (ng/mL)

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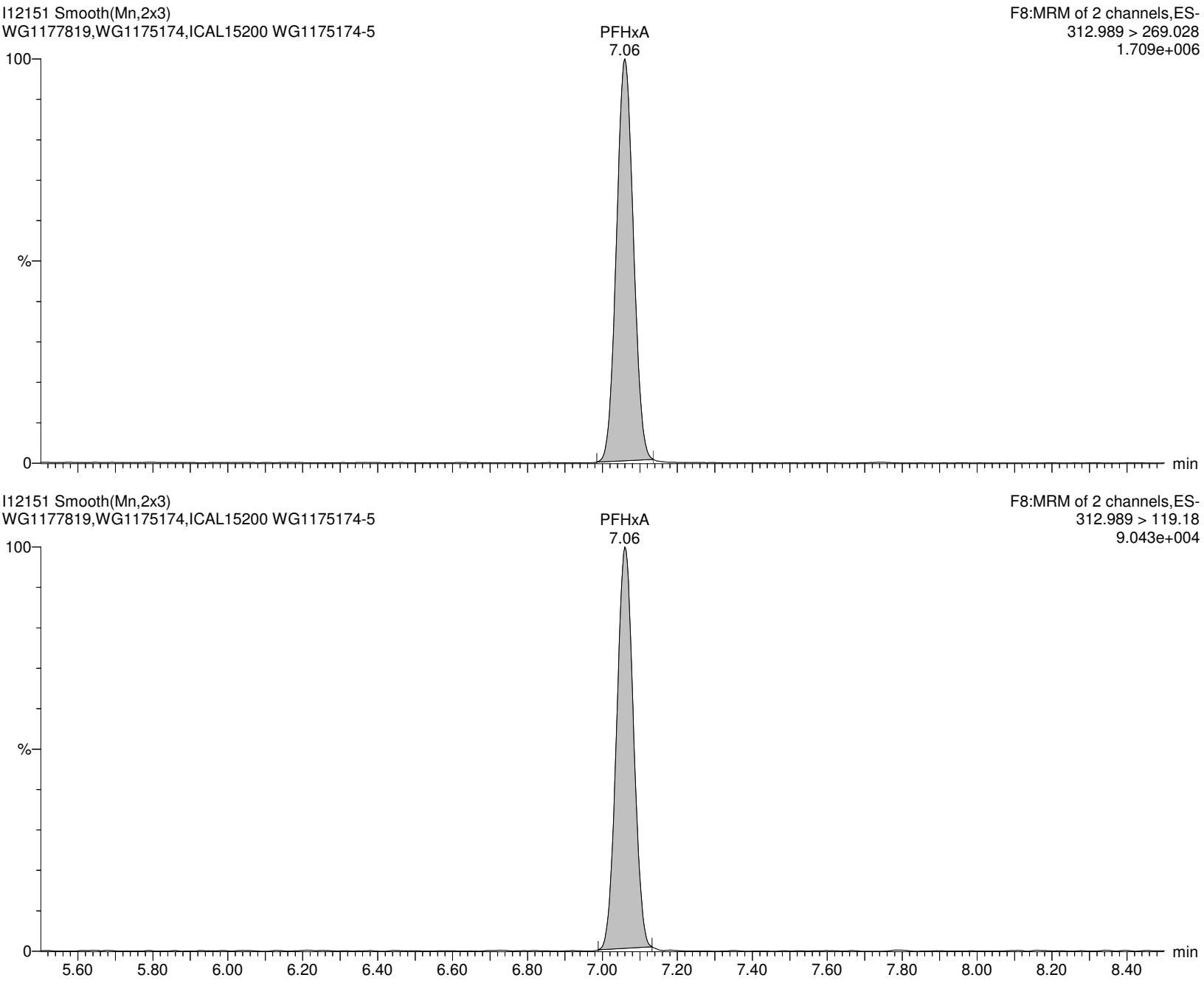

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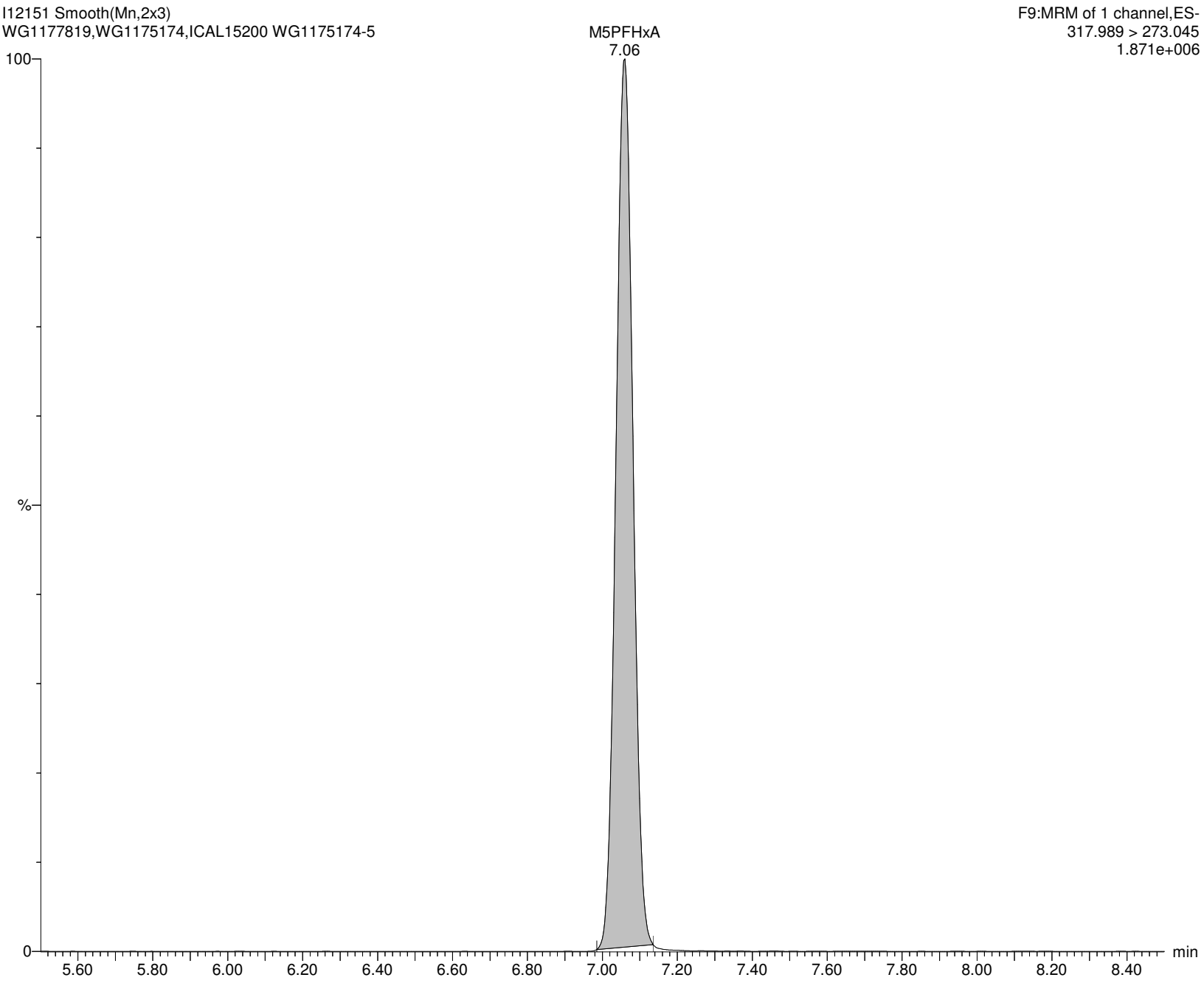

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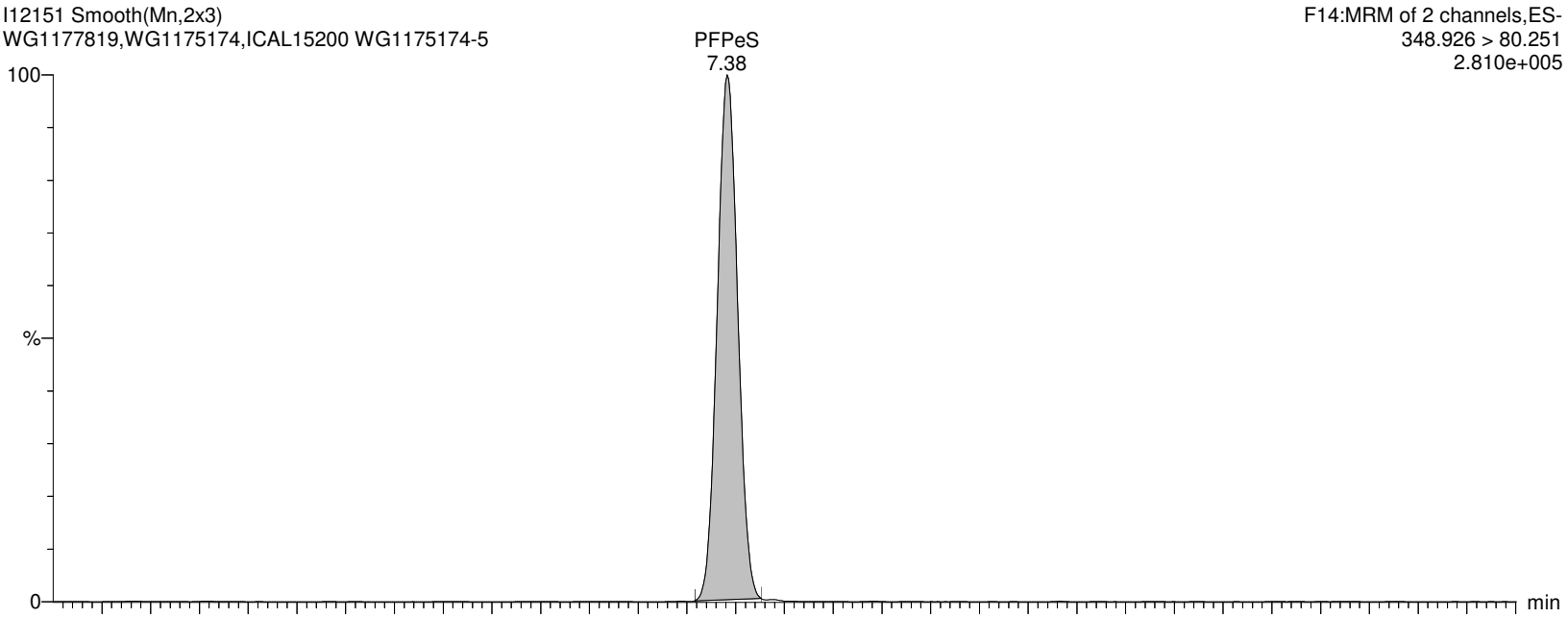

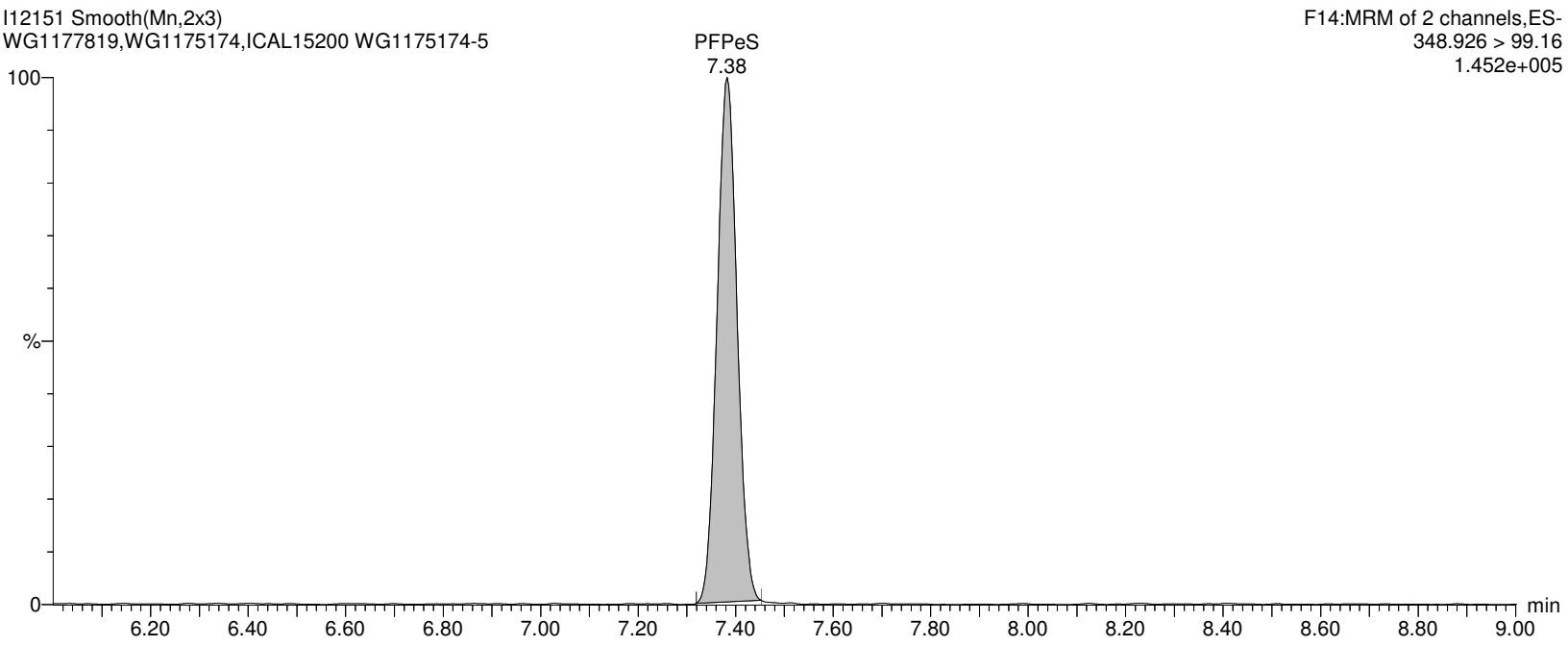

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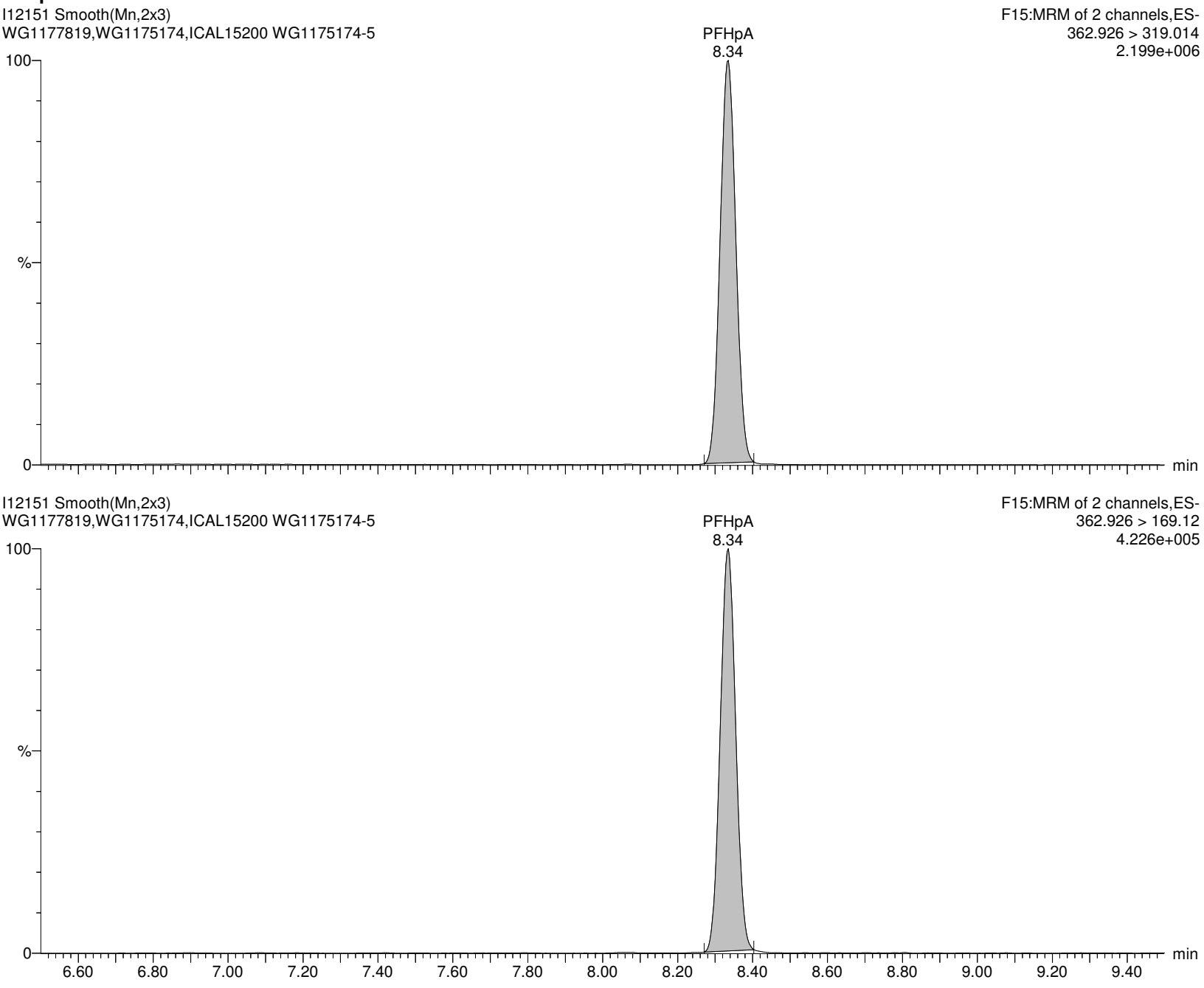

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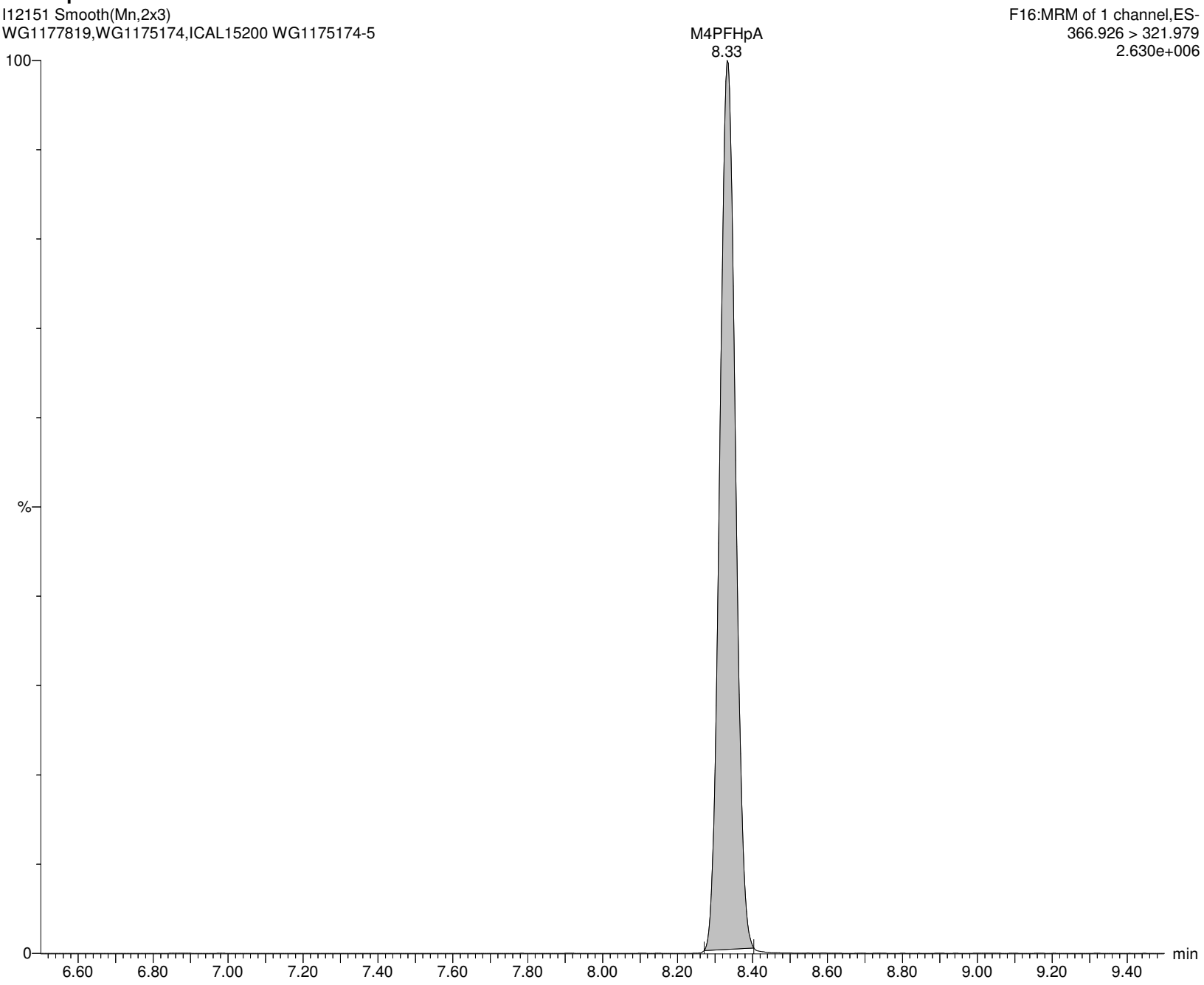

all concentration units in (ng/mL)

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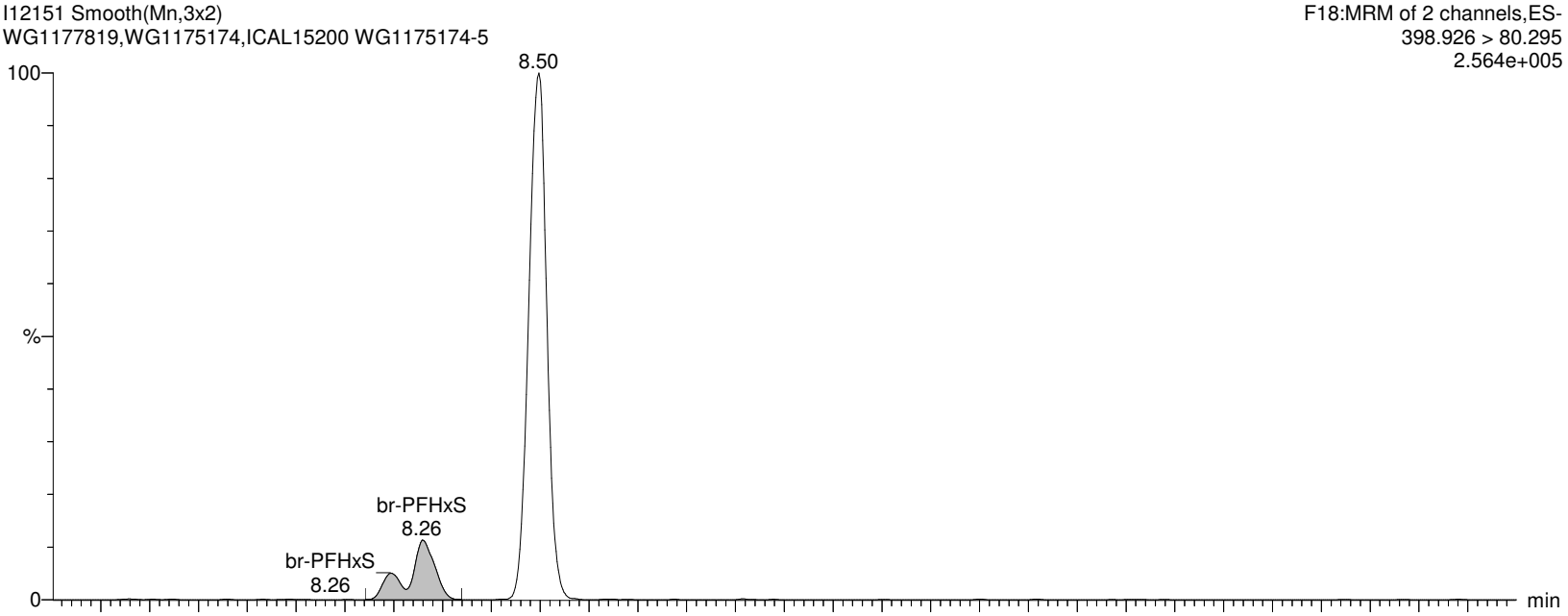

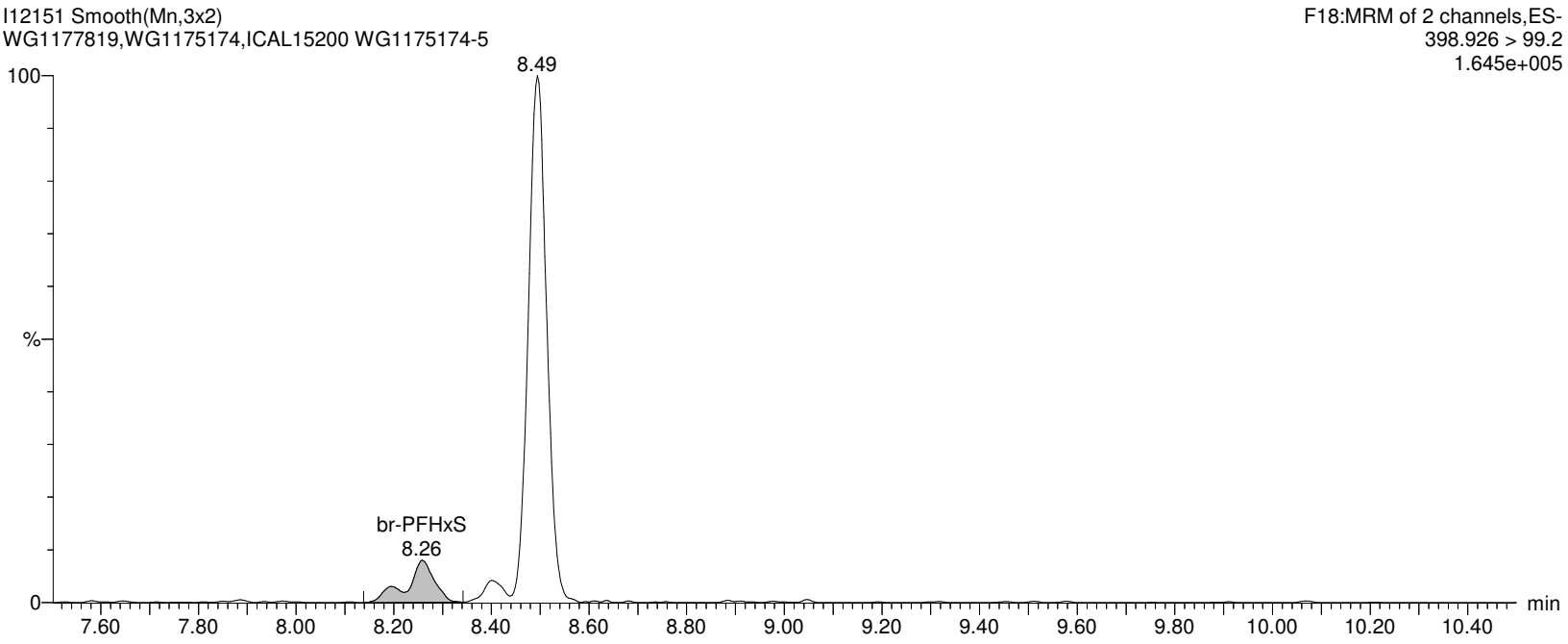

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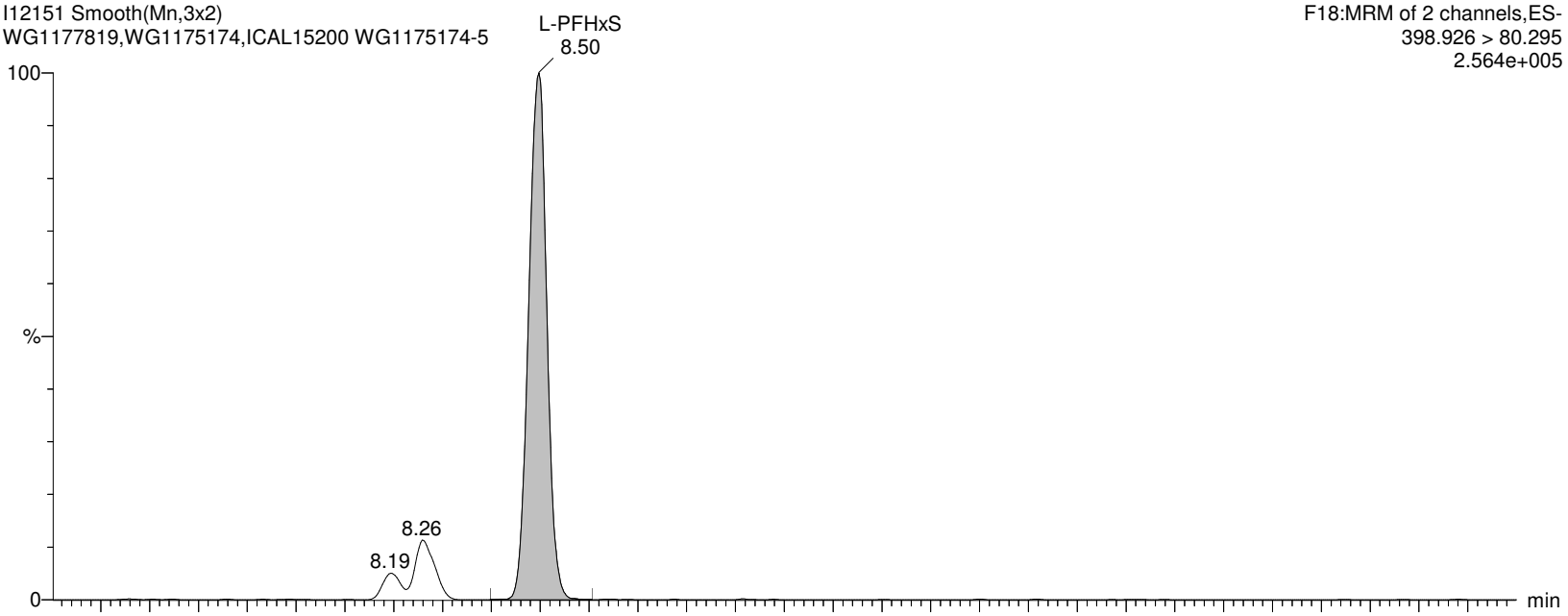
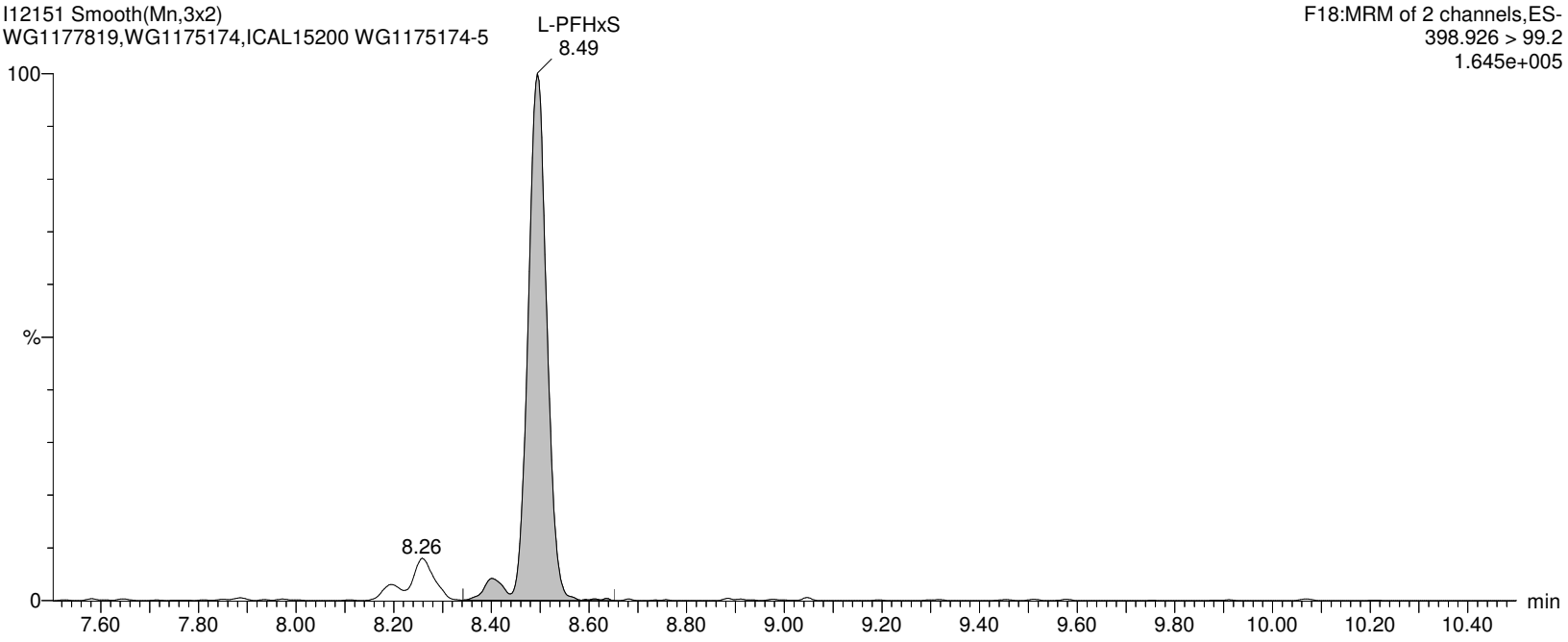
L-PFHxS





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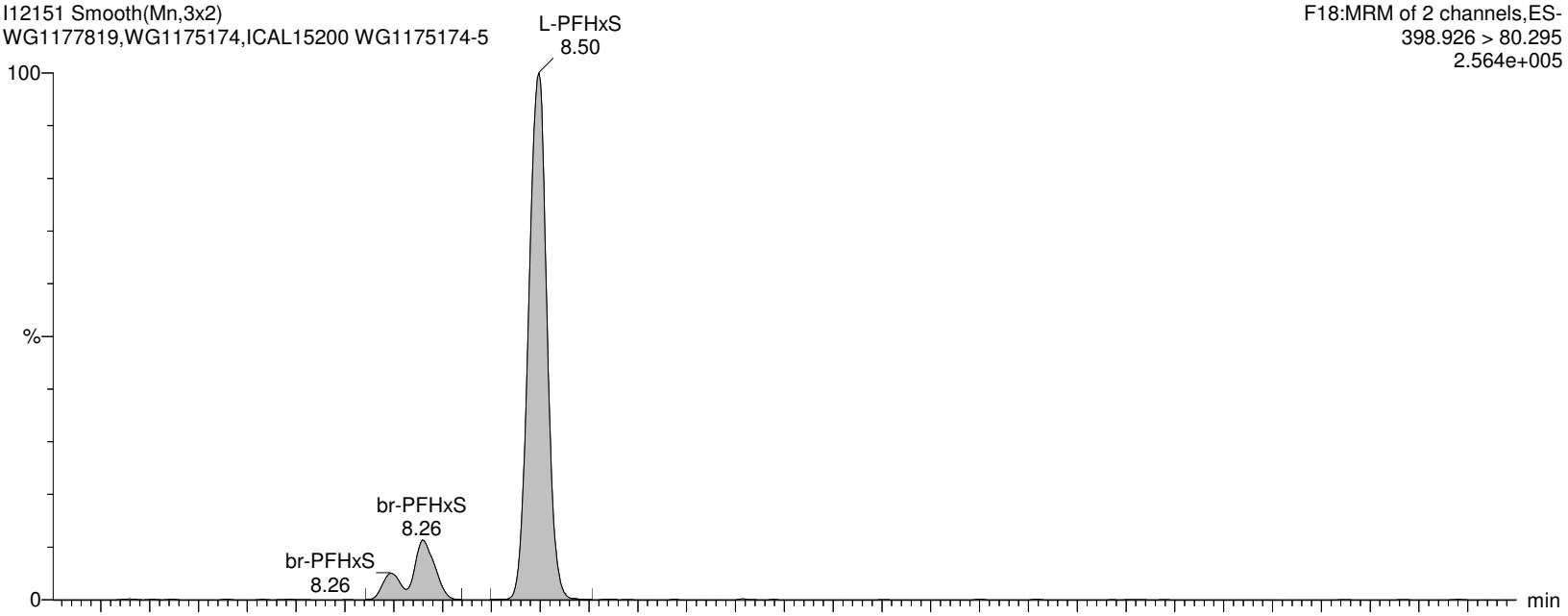

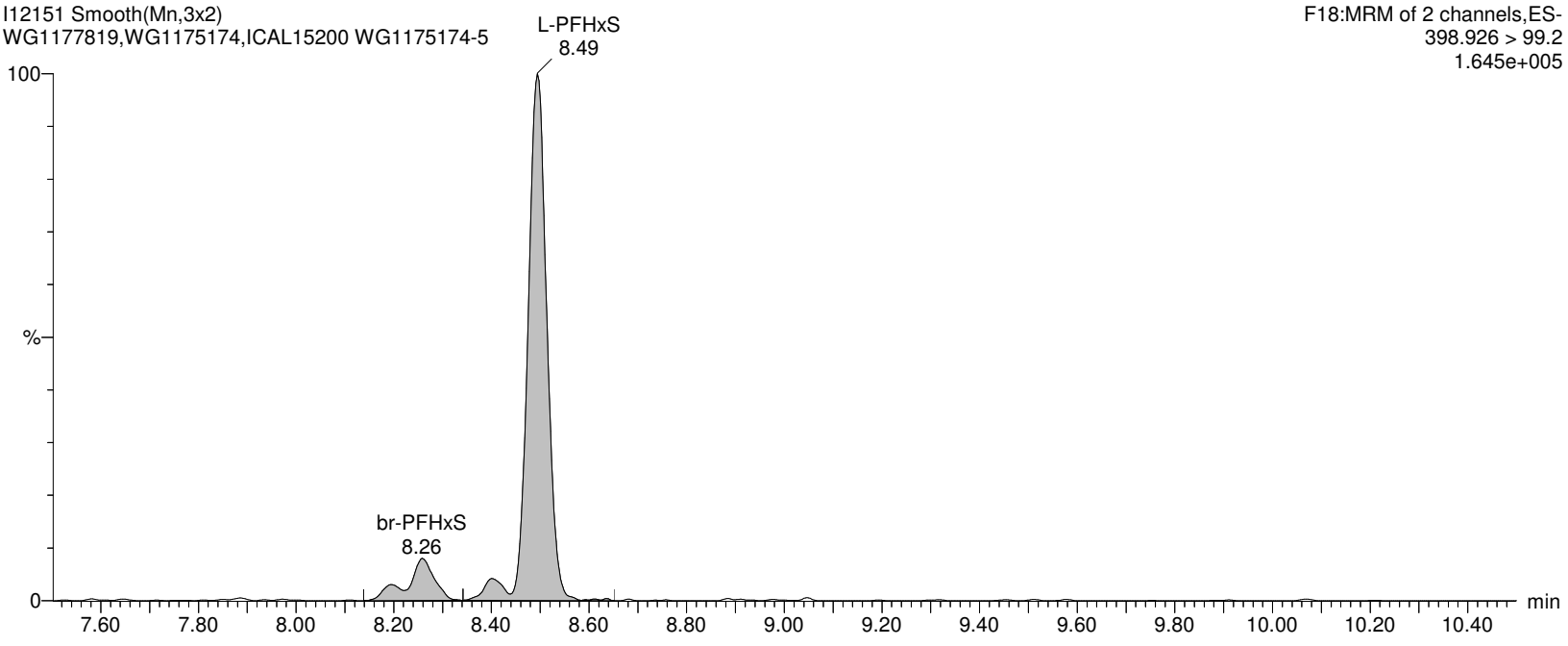

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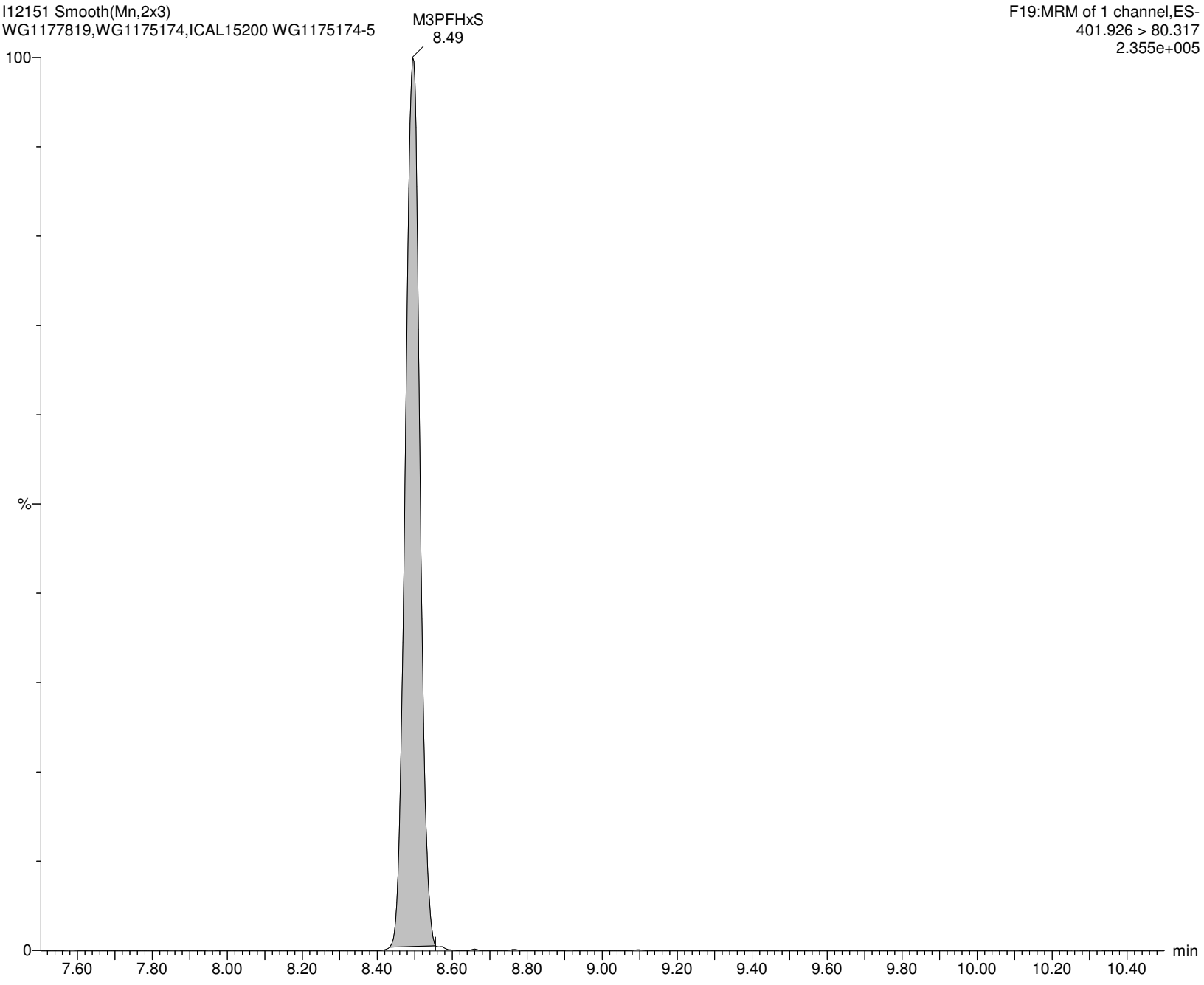

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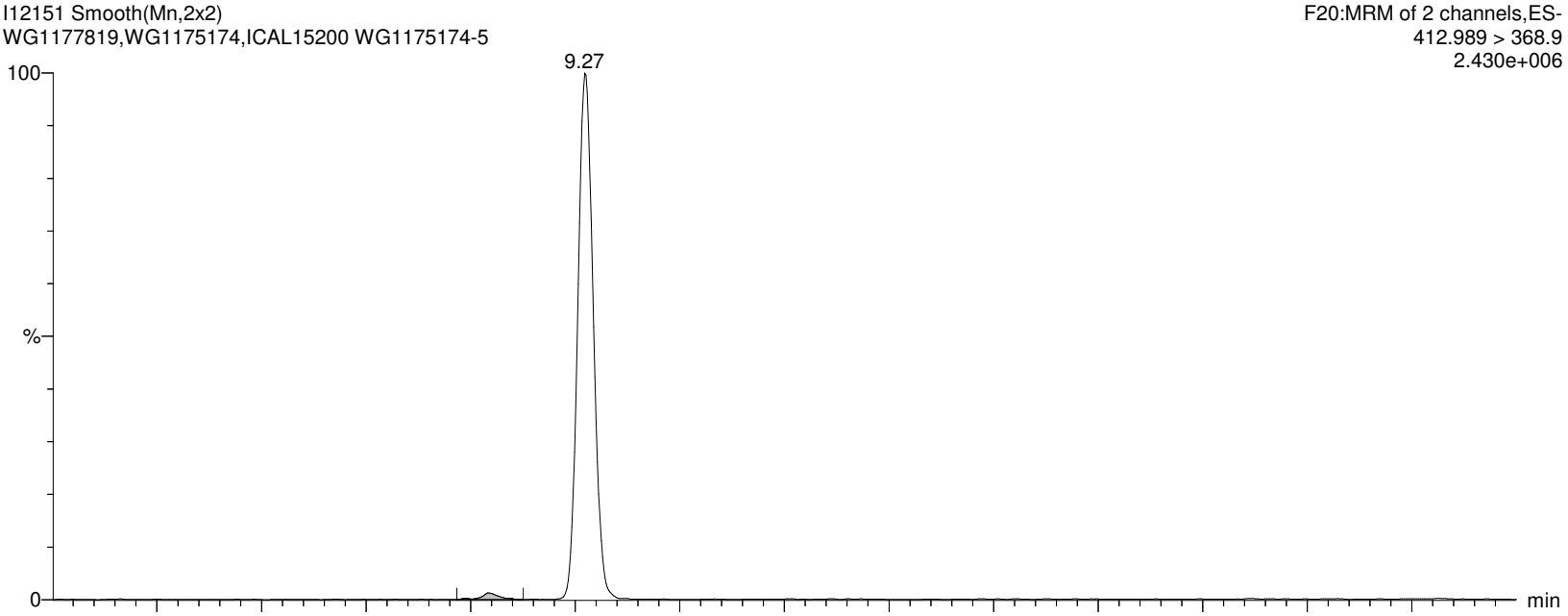

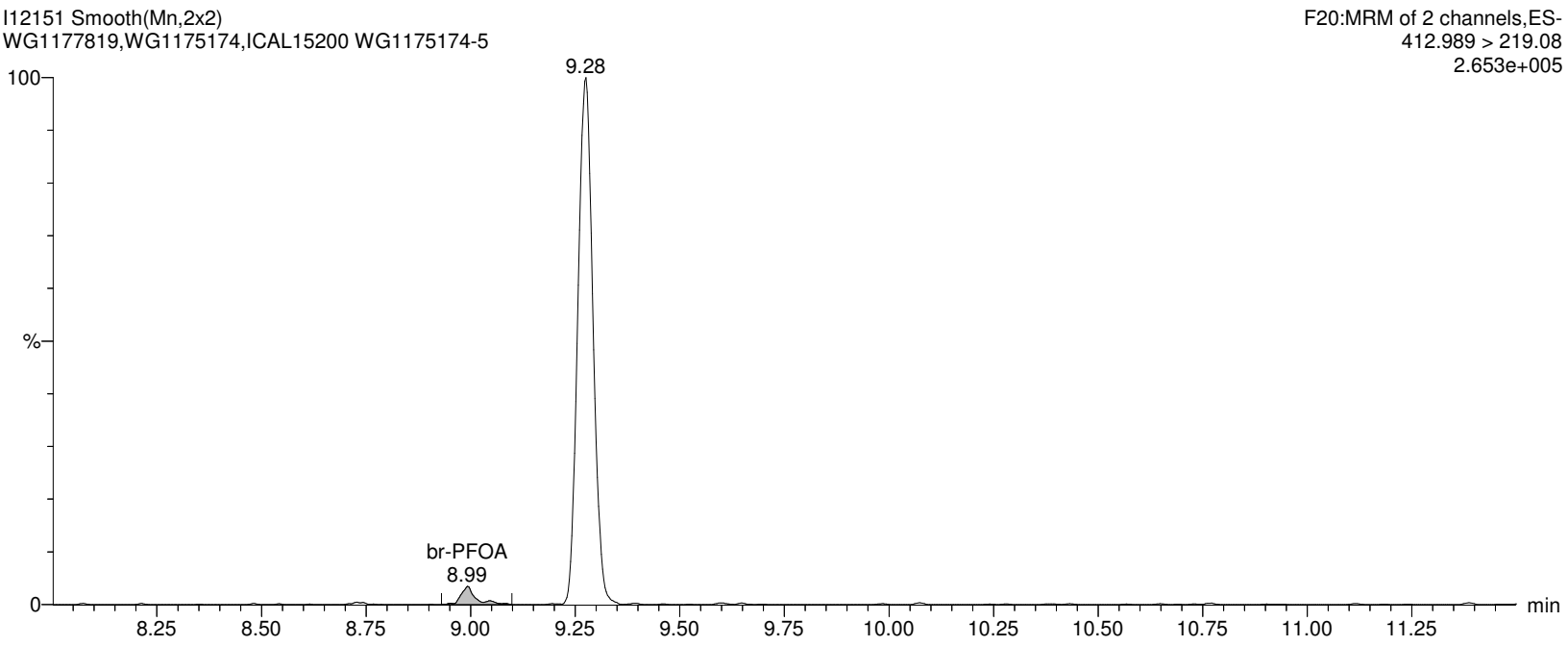

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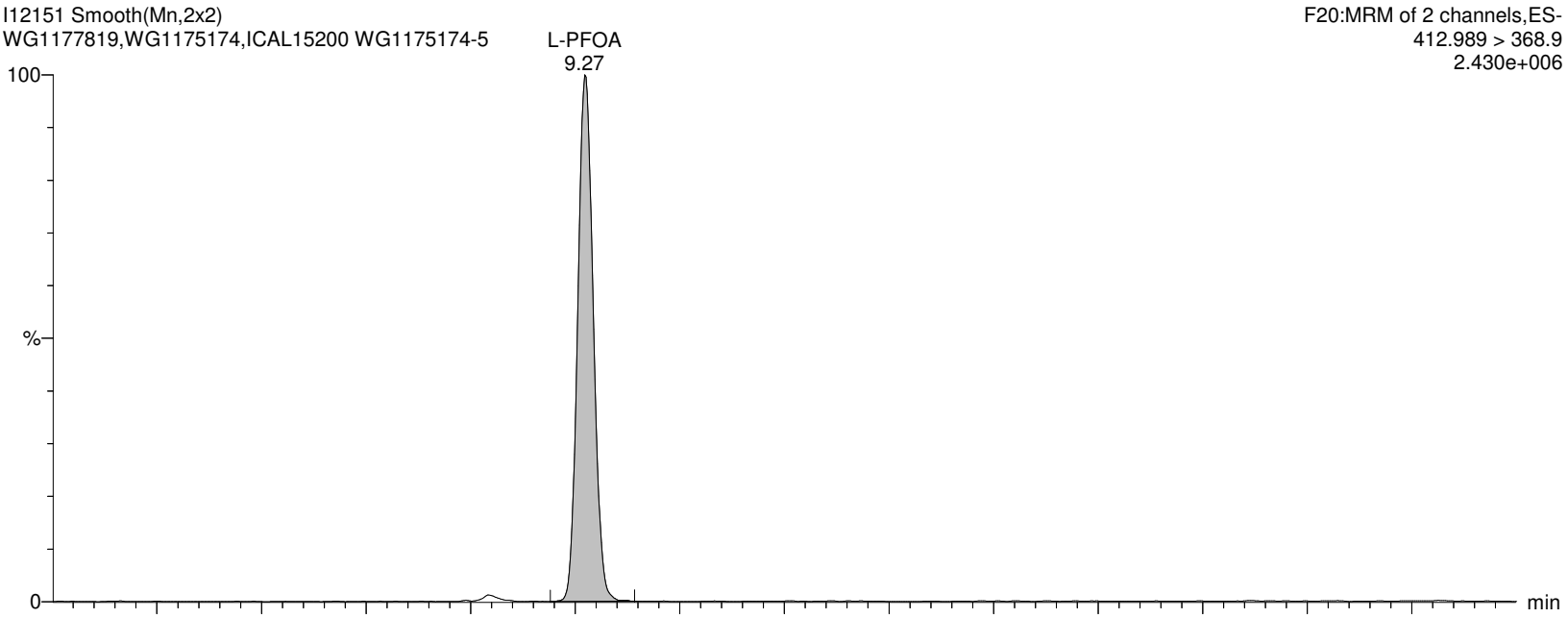
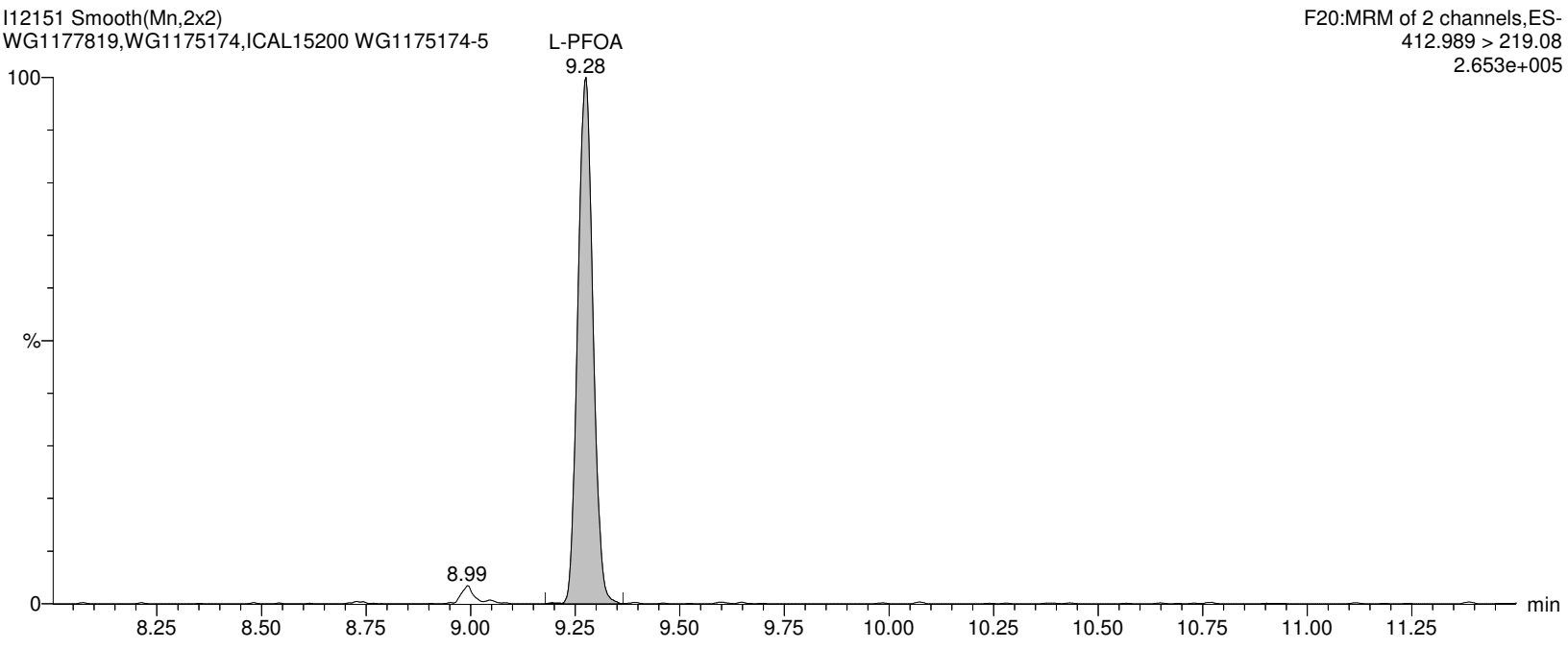
L-PFOA





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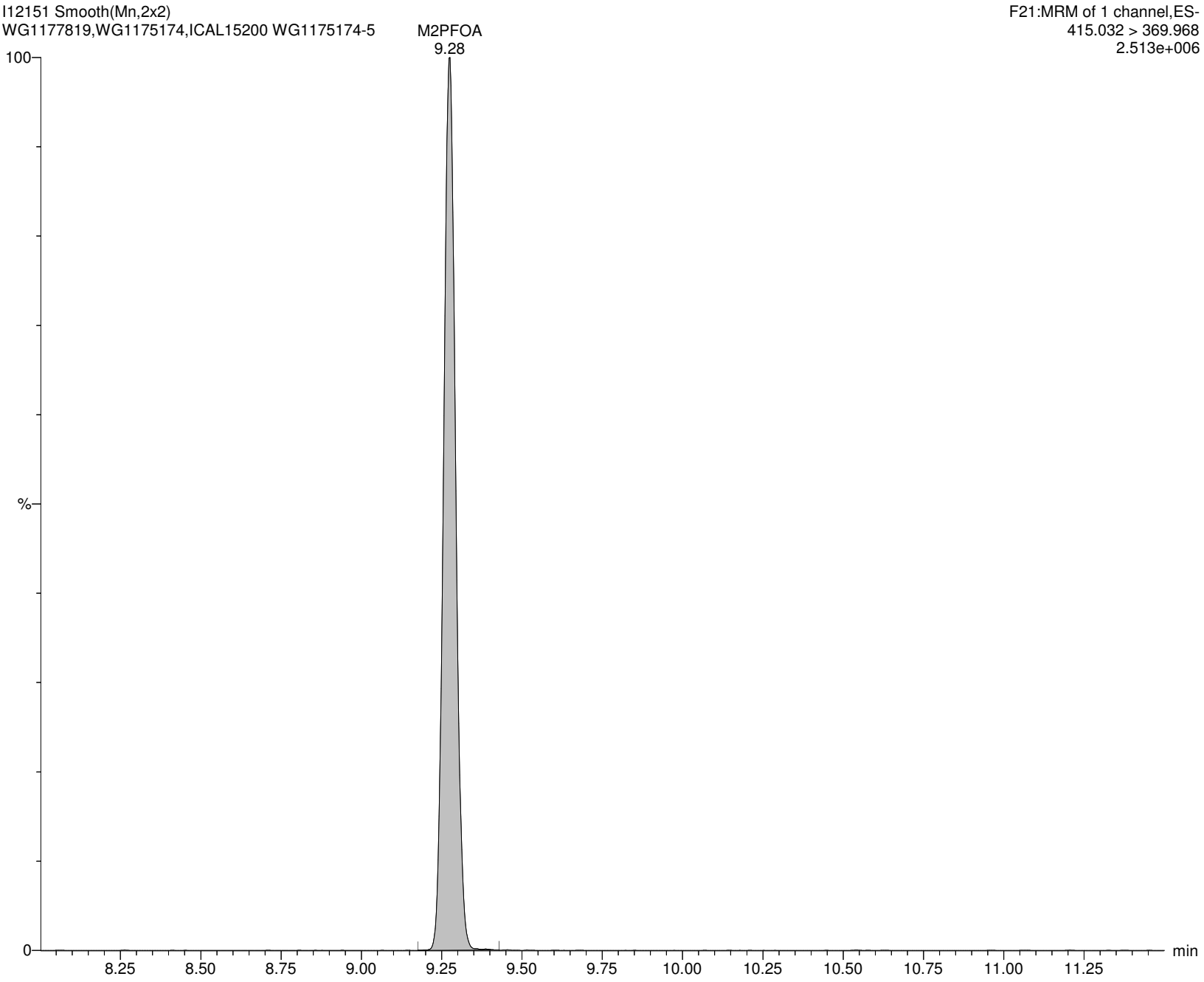

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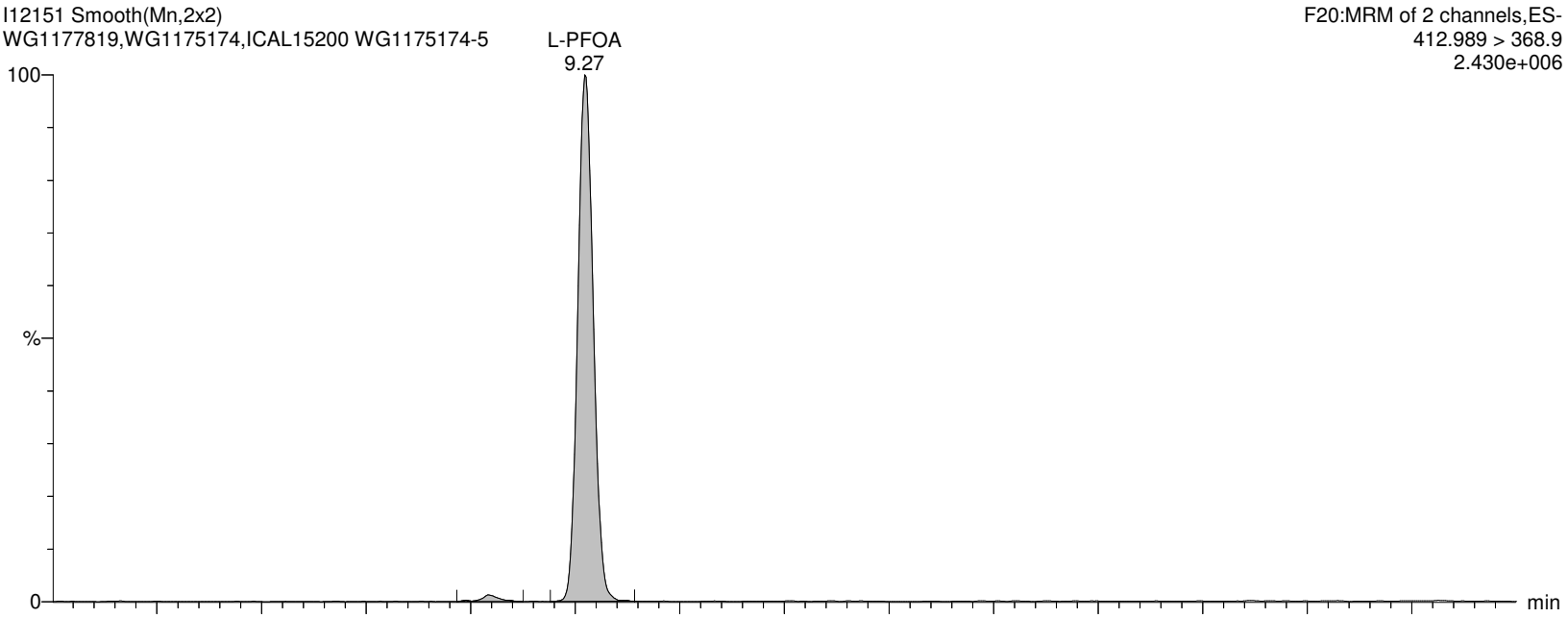

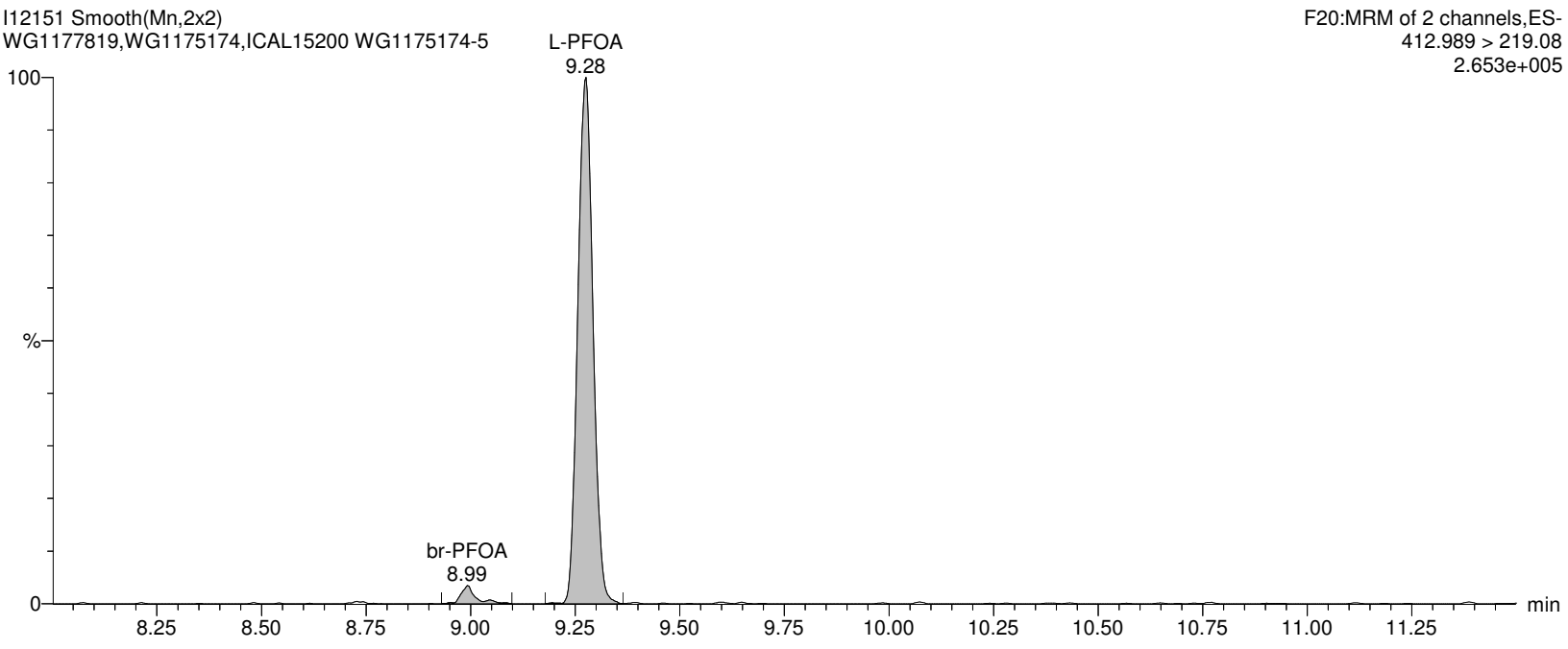

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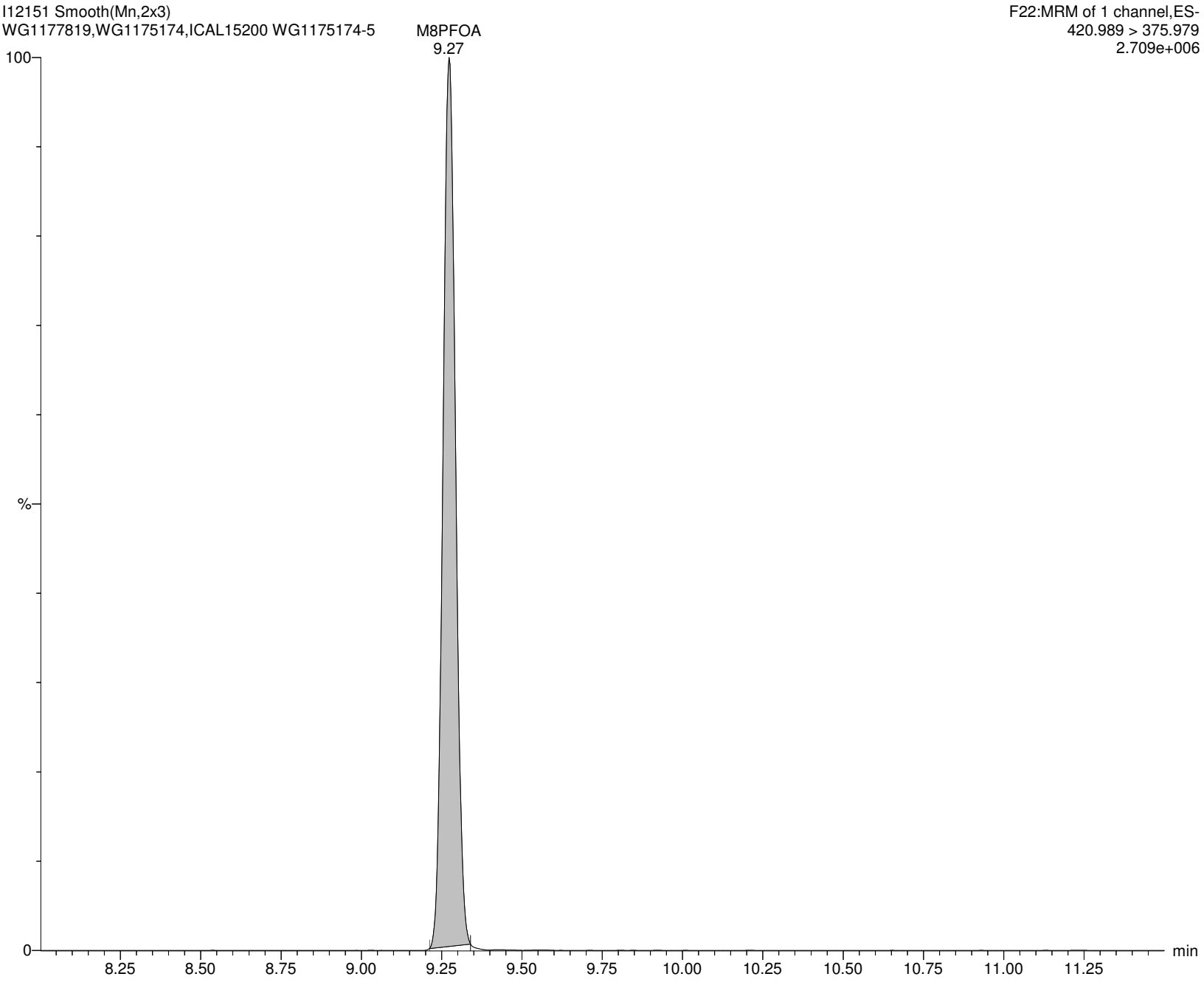
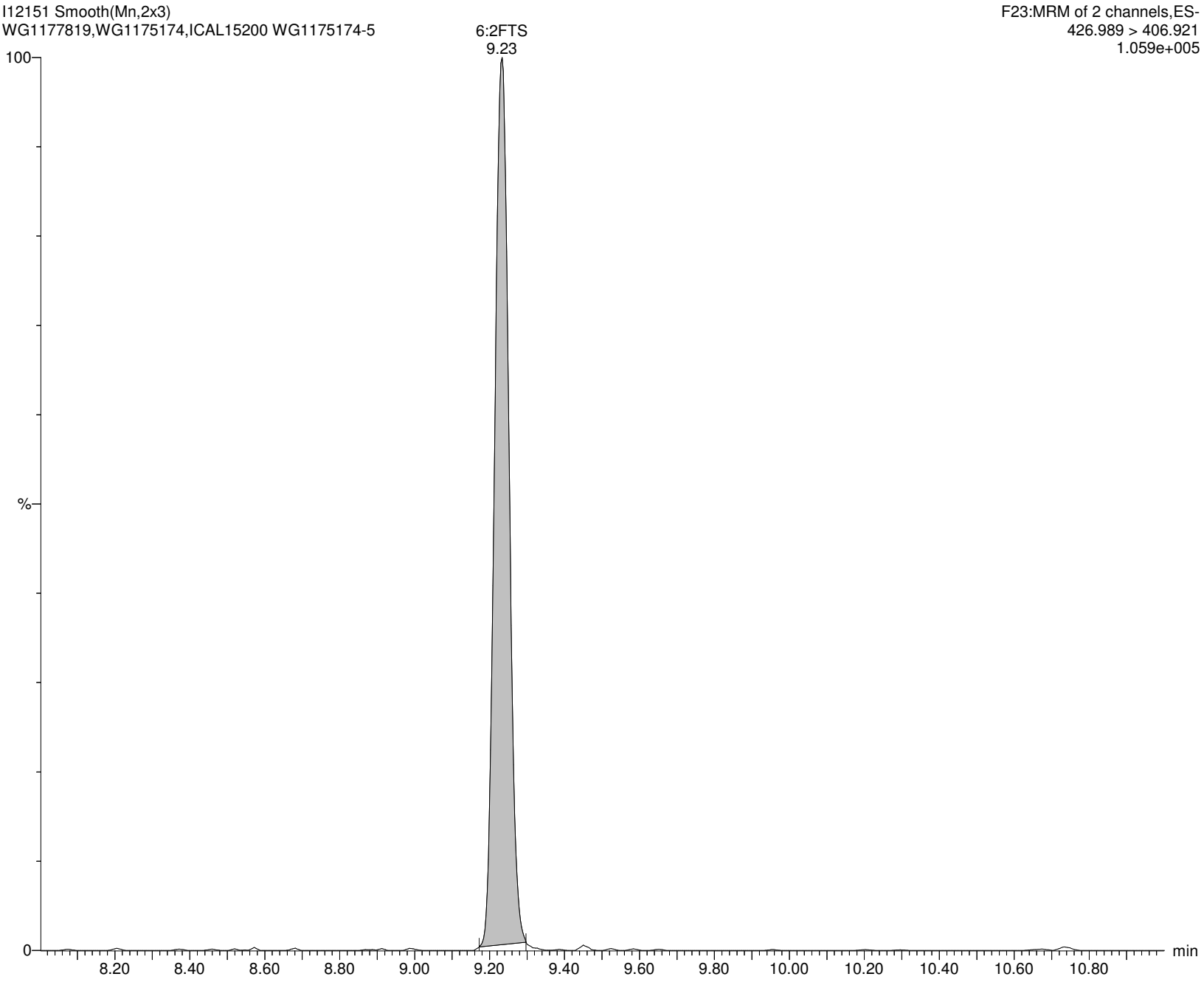


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:51 Eastern Standard Time

Name: I12151
ID: WG1175174-5
Date: 10-Nov-2018
Time: 06:35:15
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

6:2FTS



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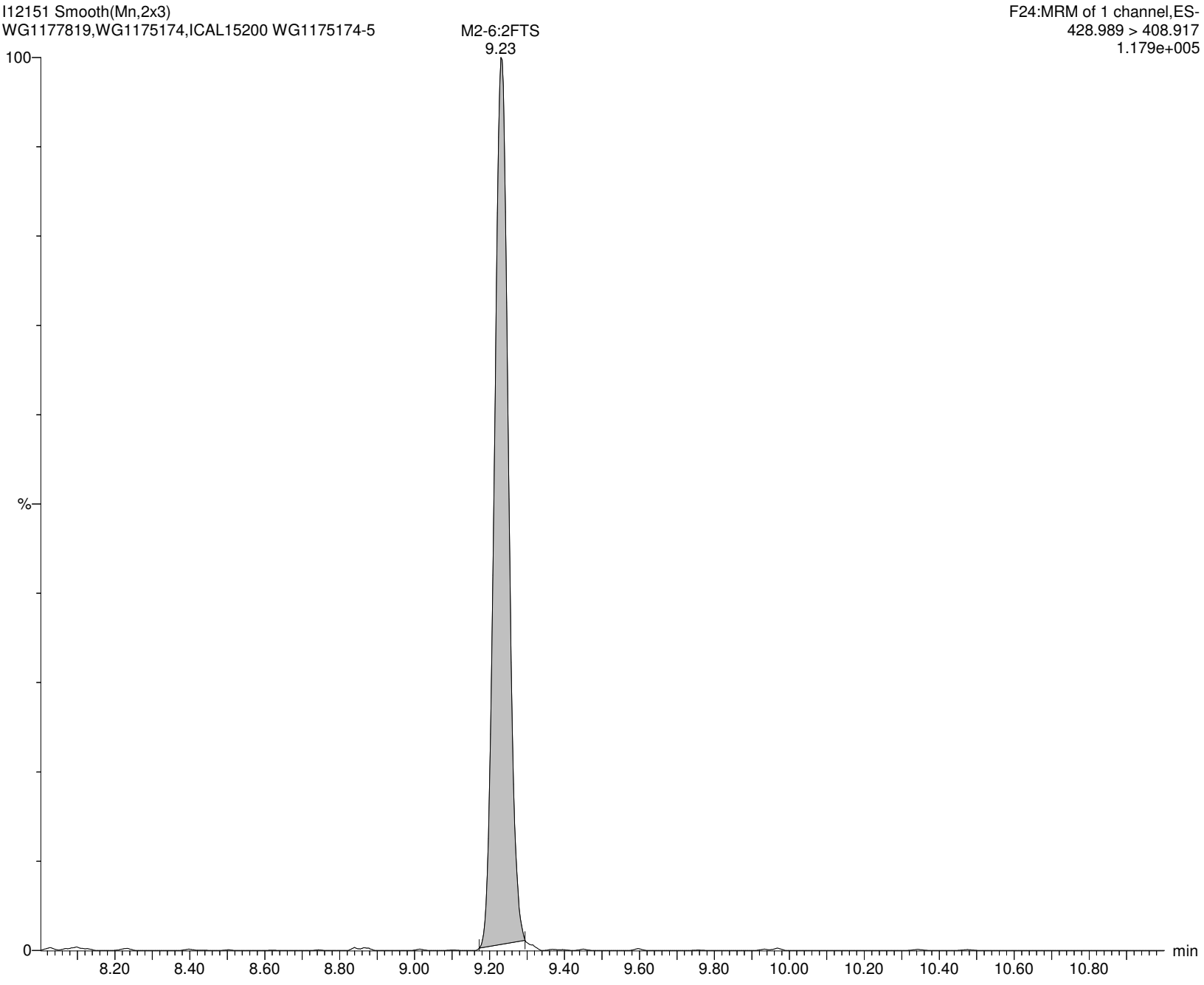

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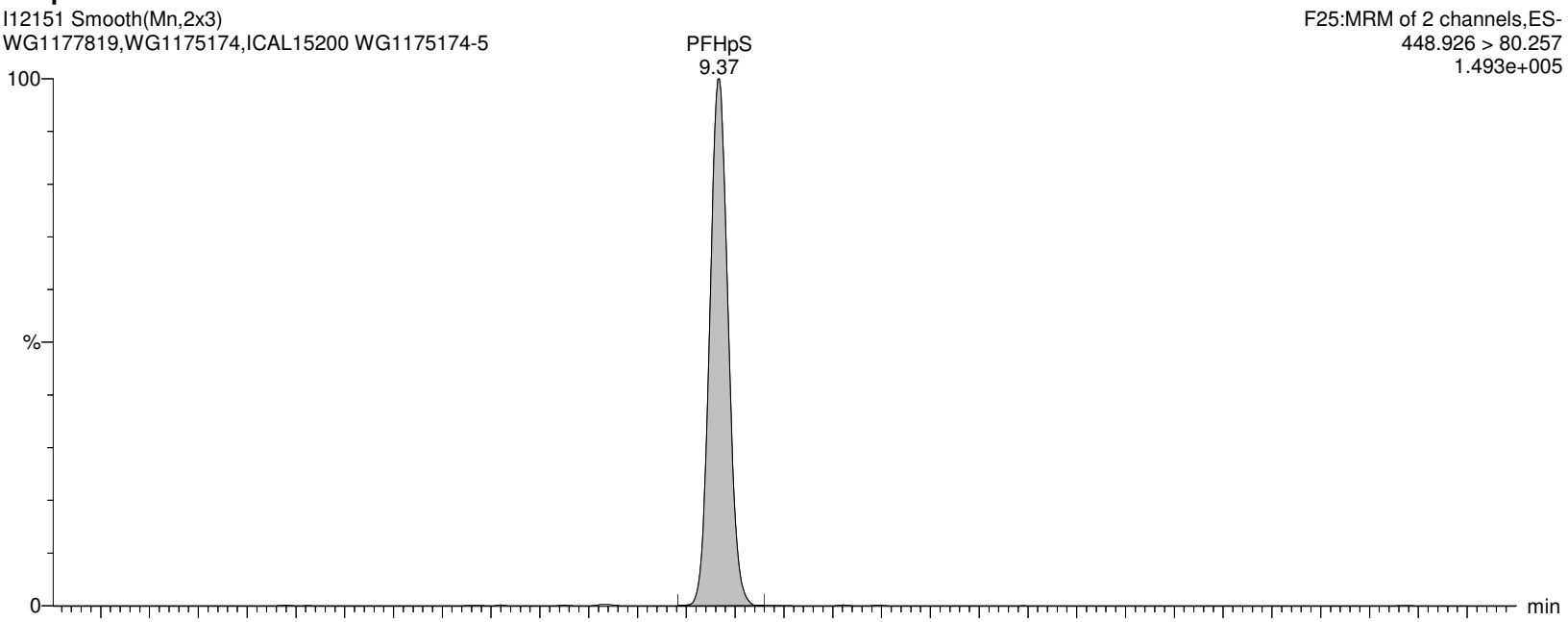

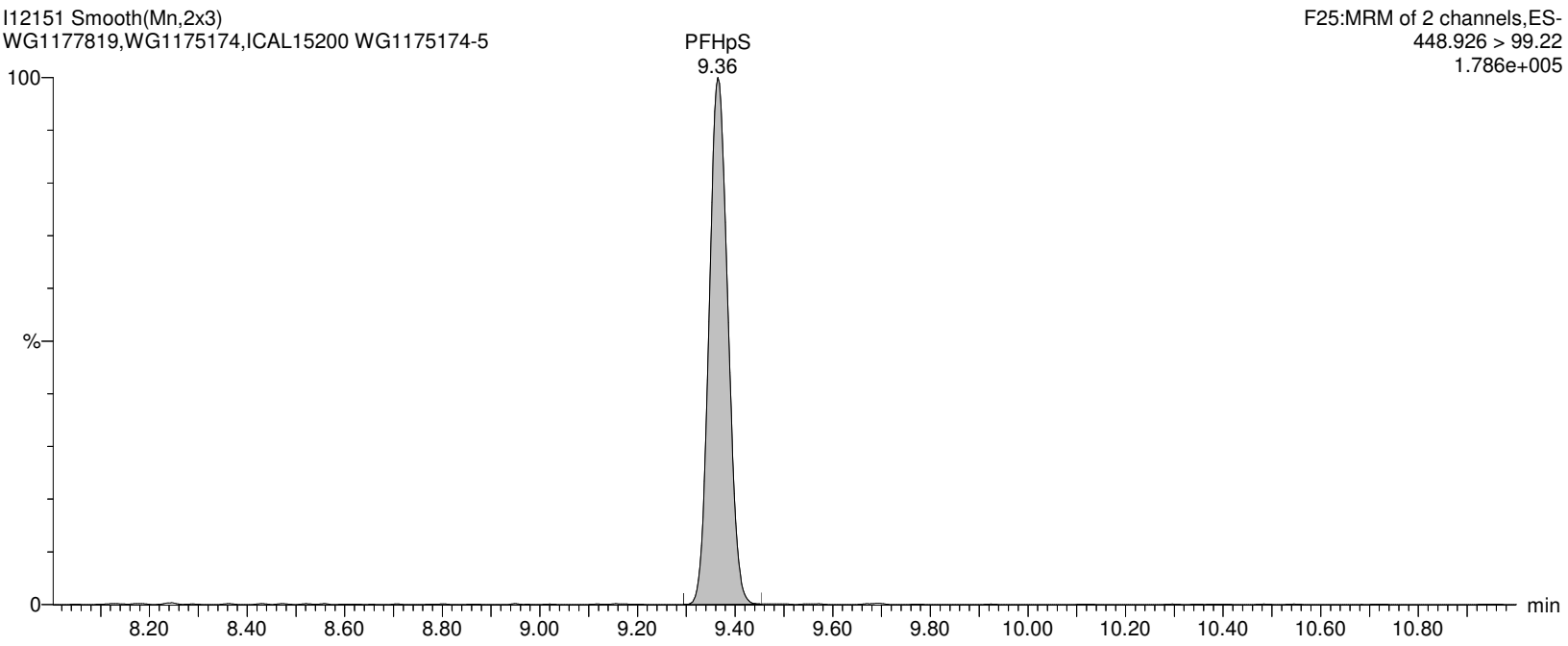

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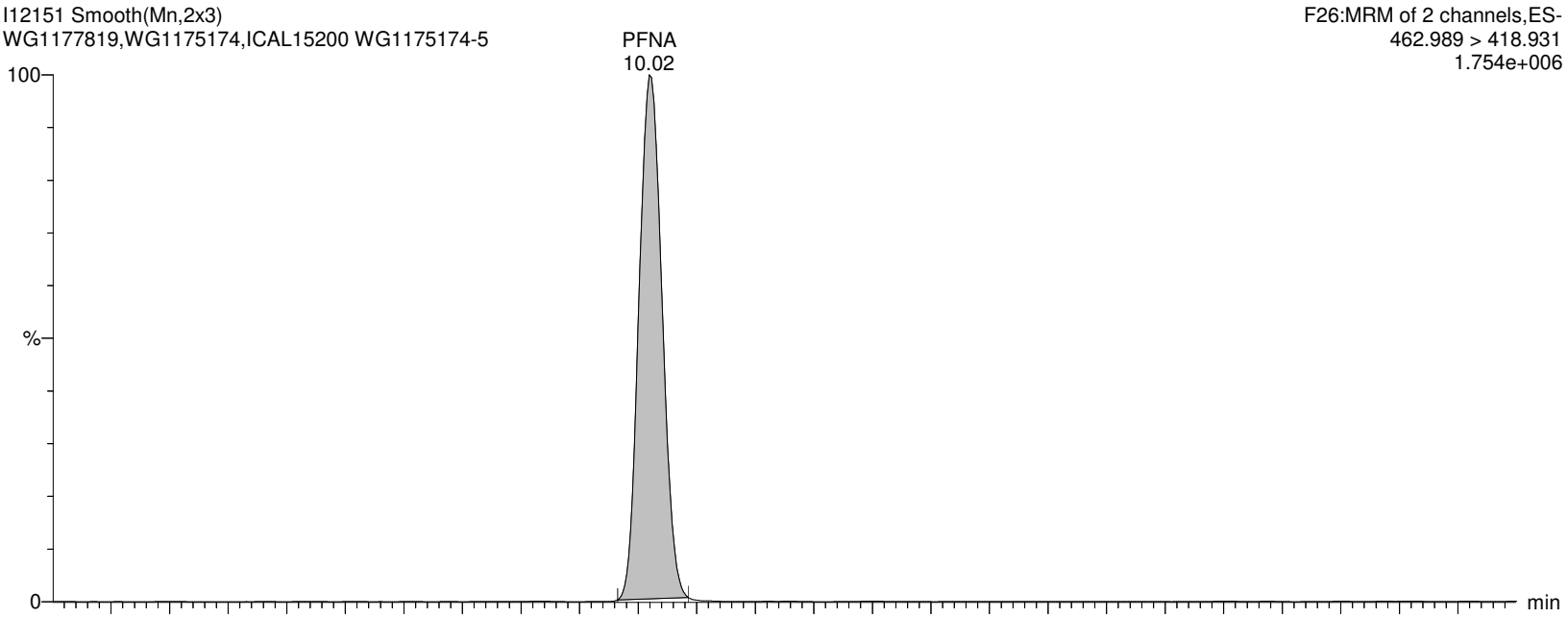

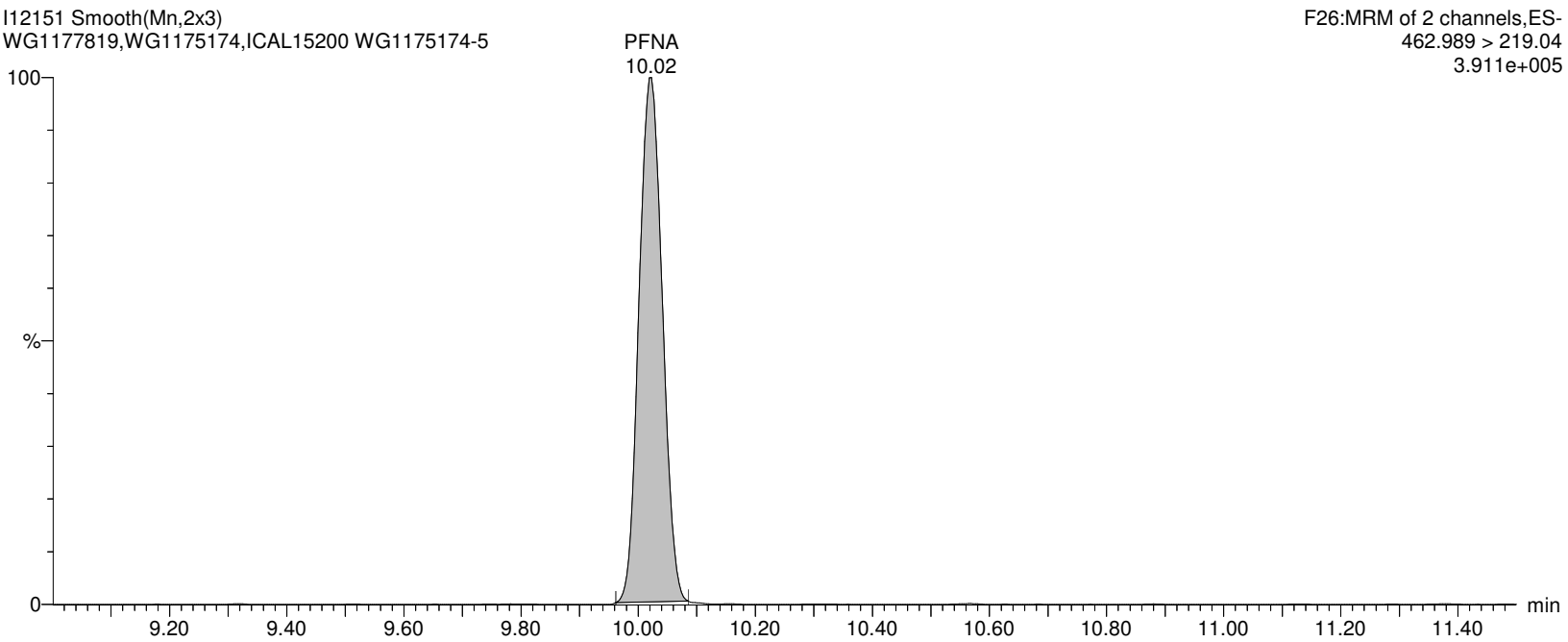

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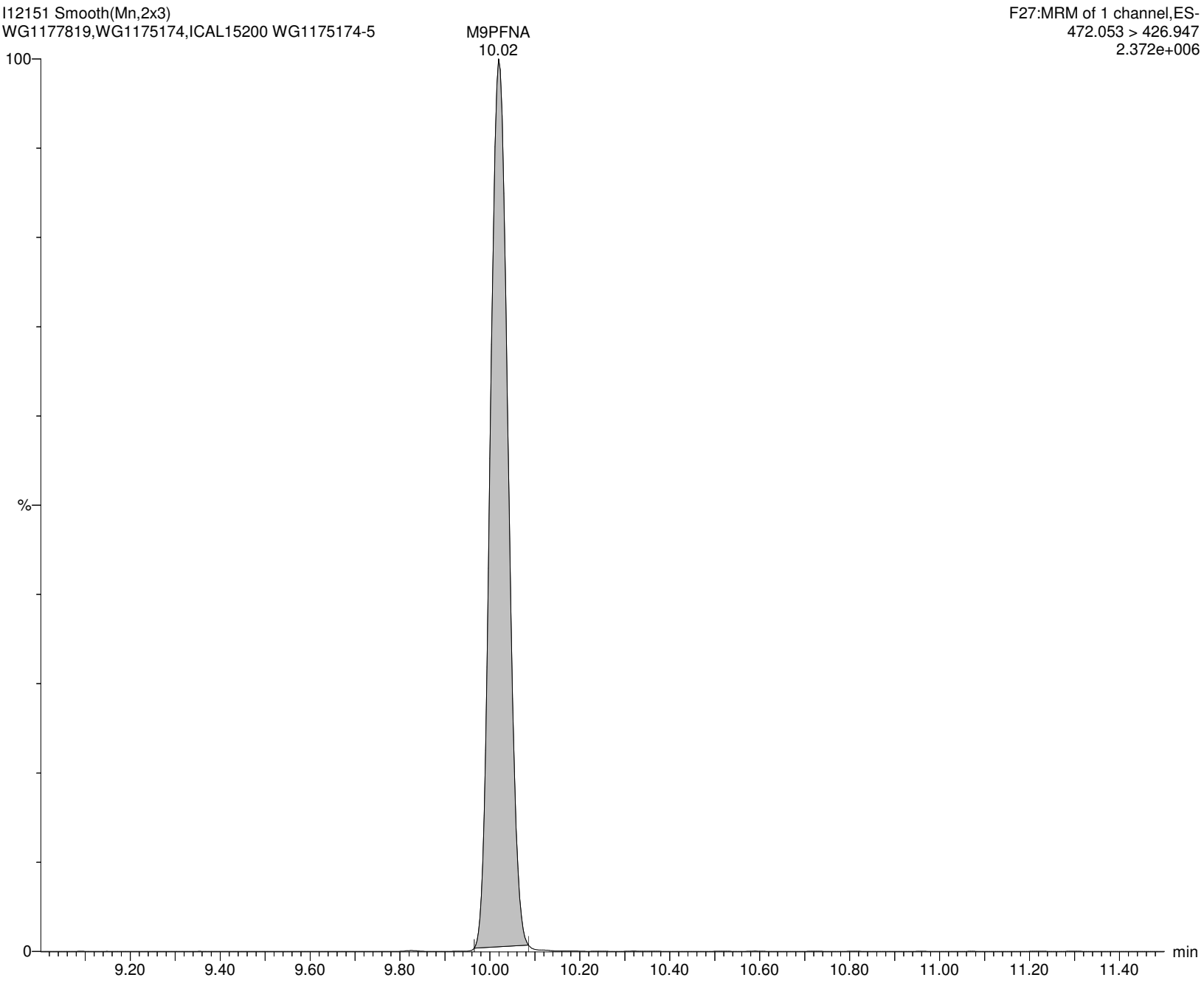

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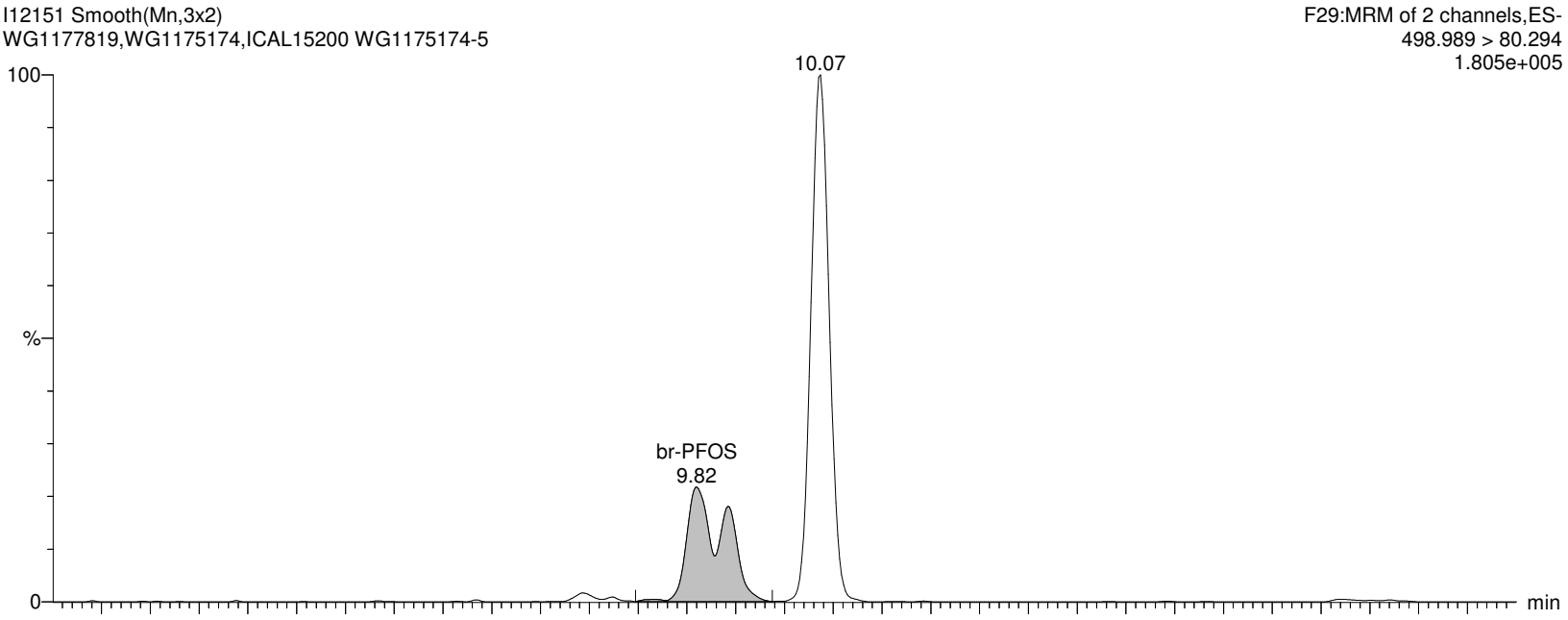

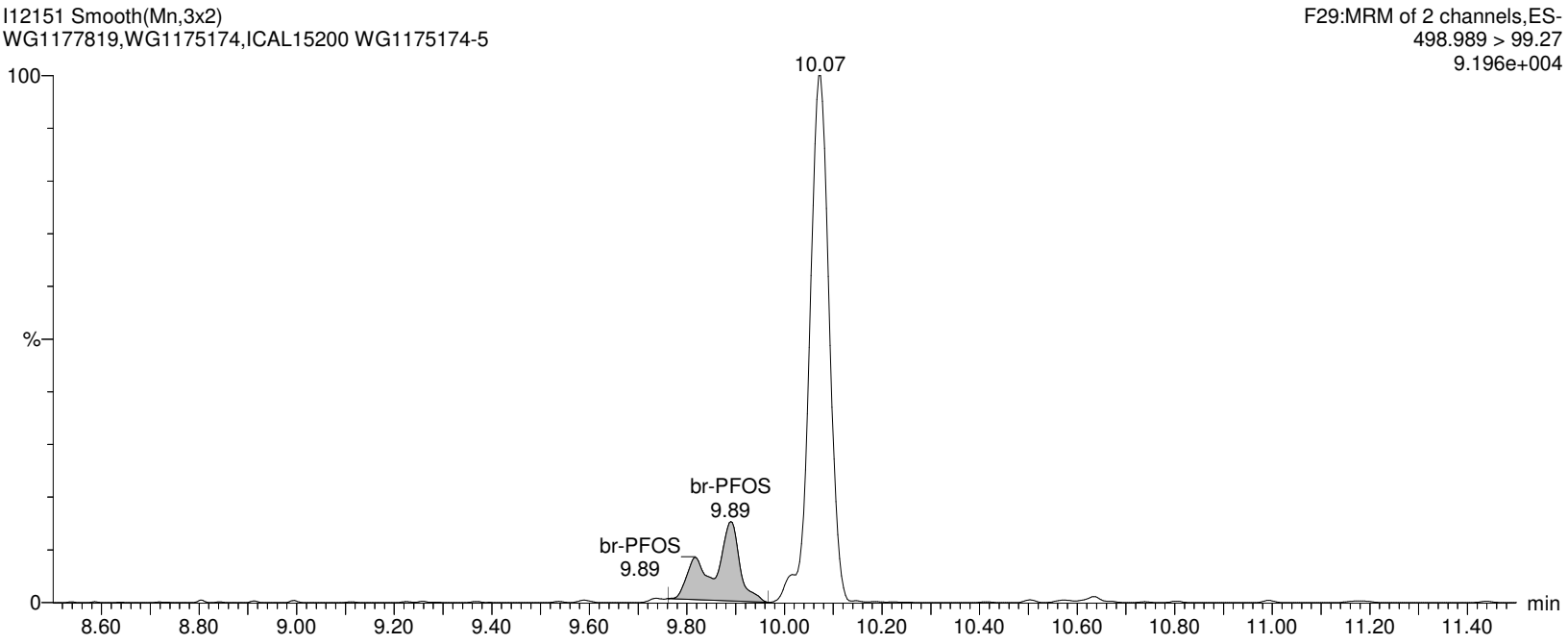

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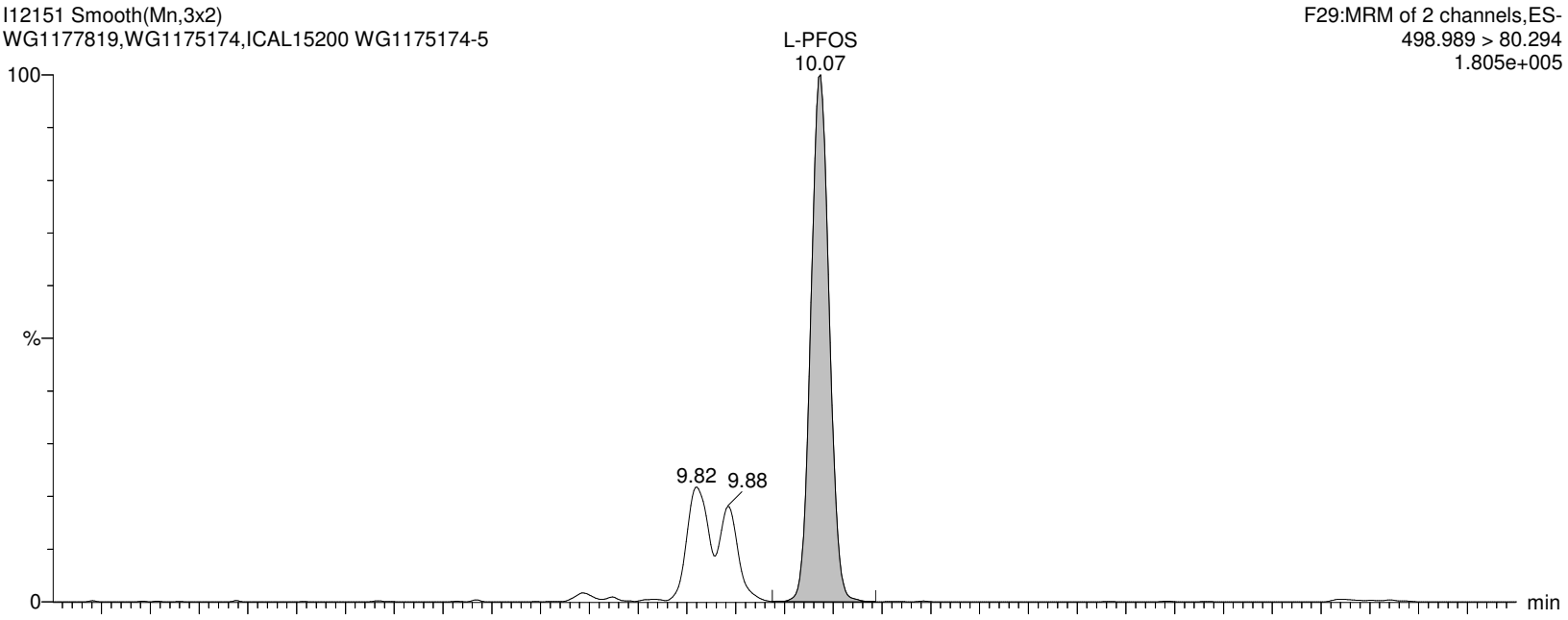

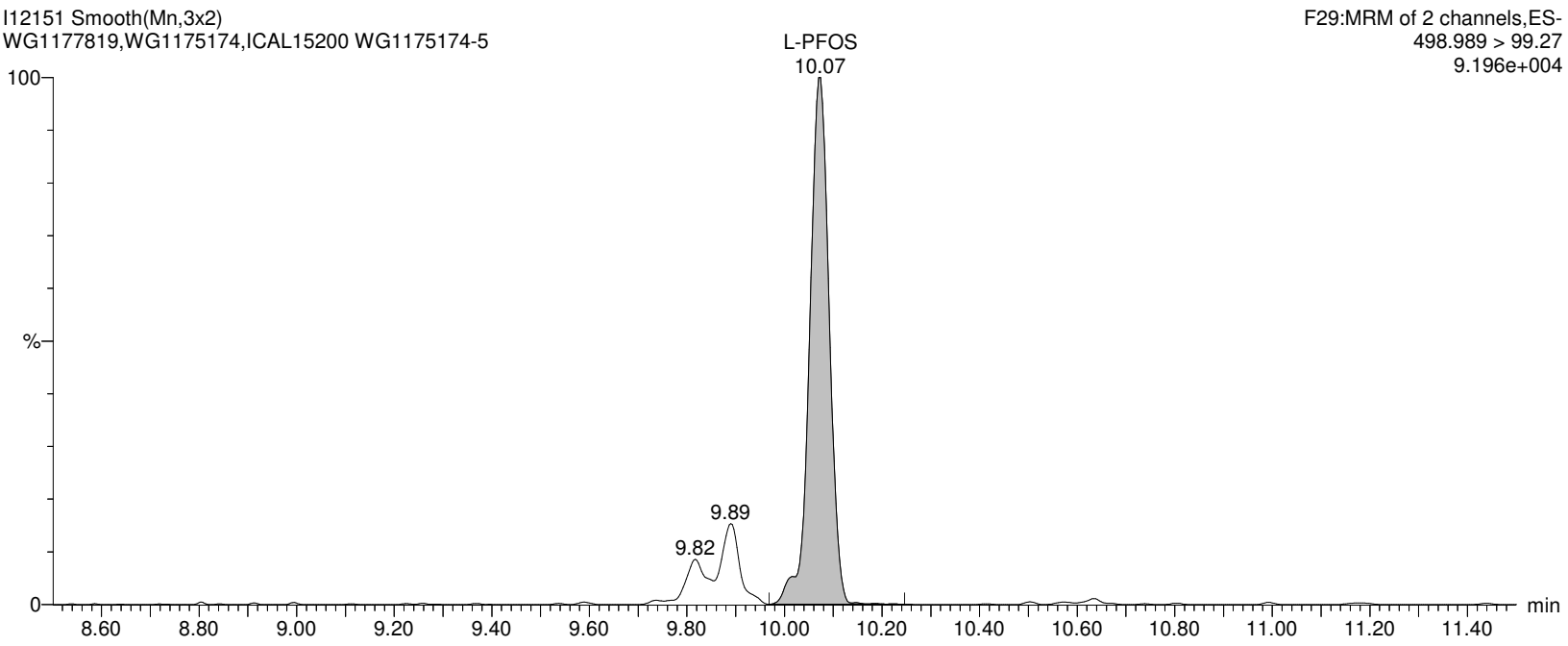

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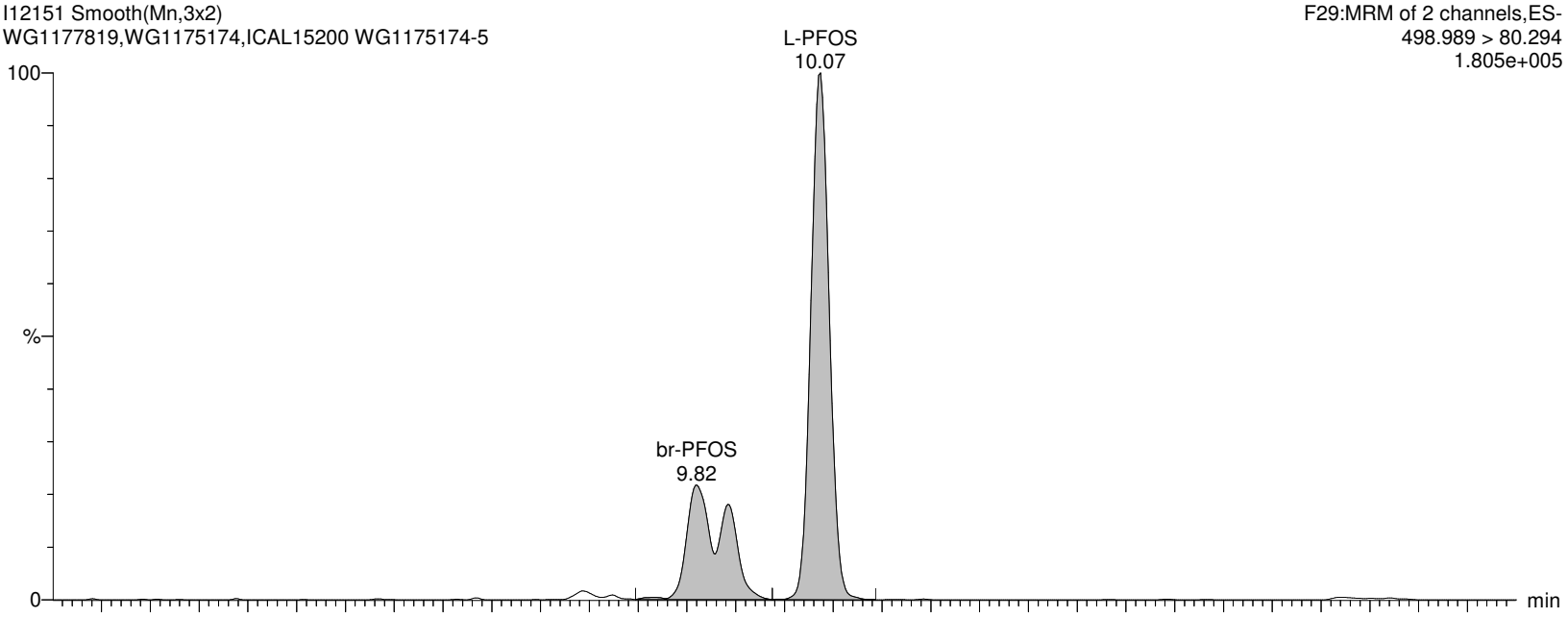
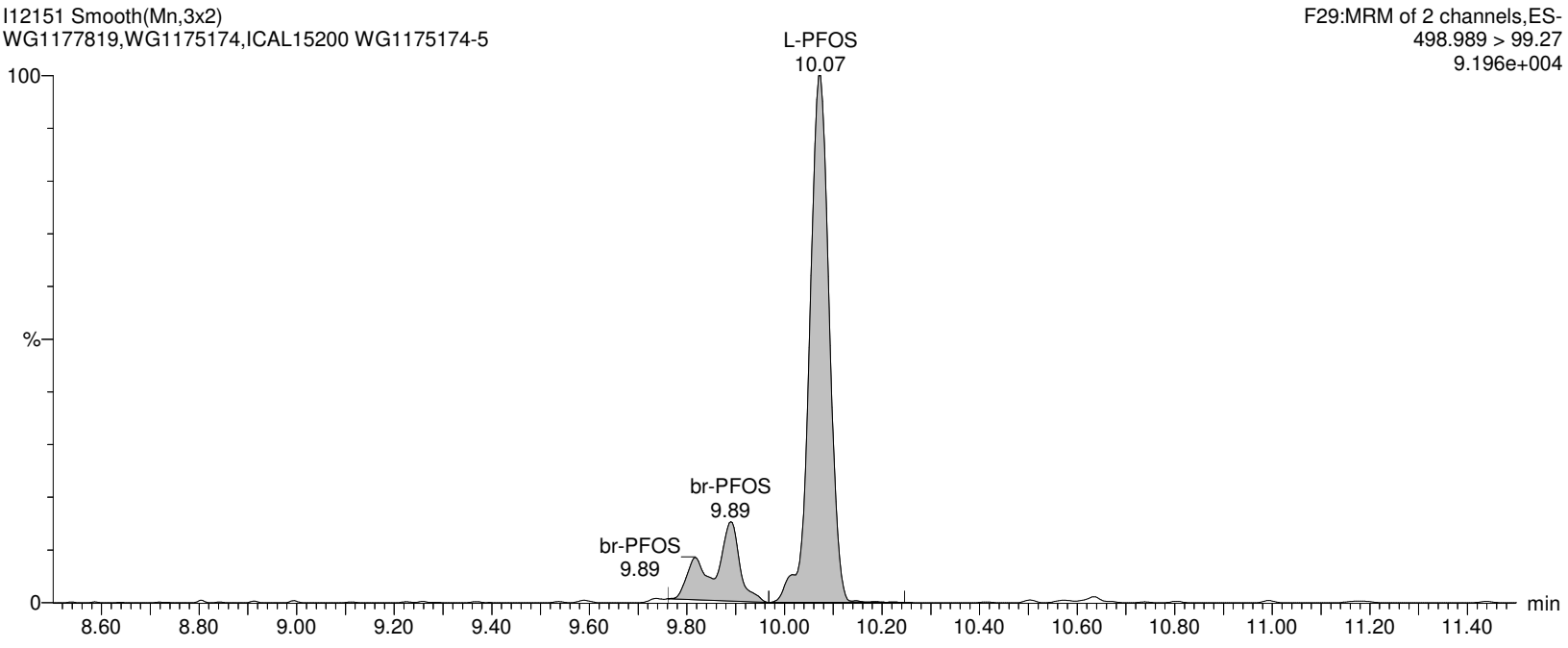
PFOS





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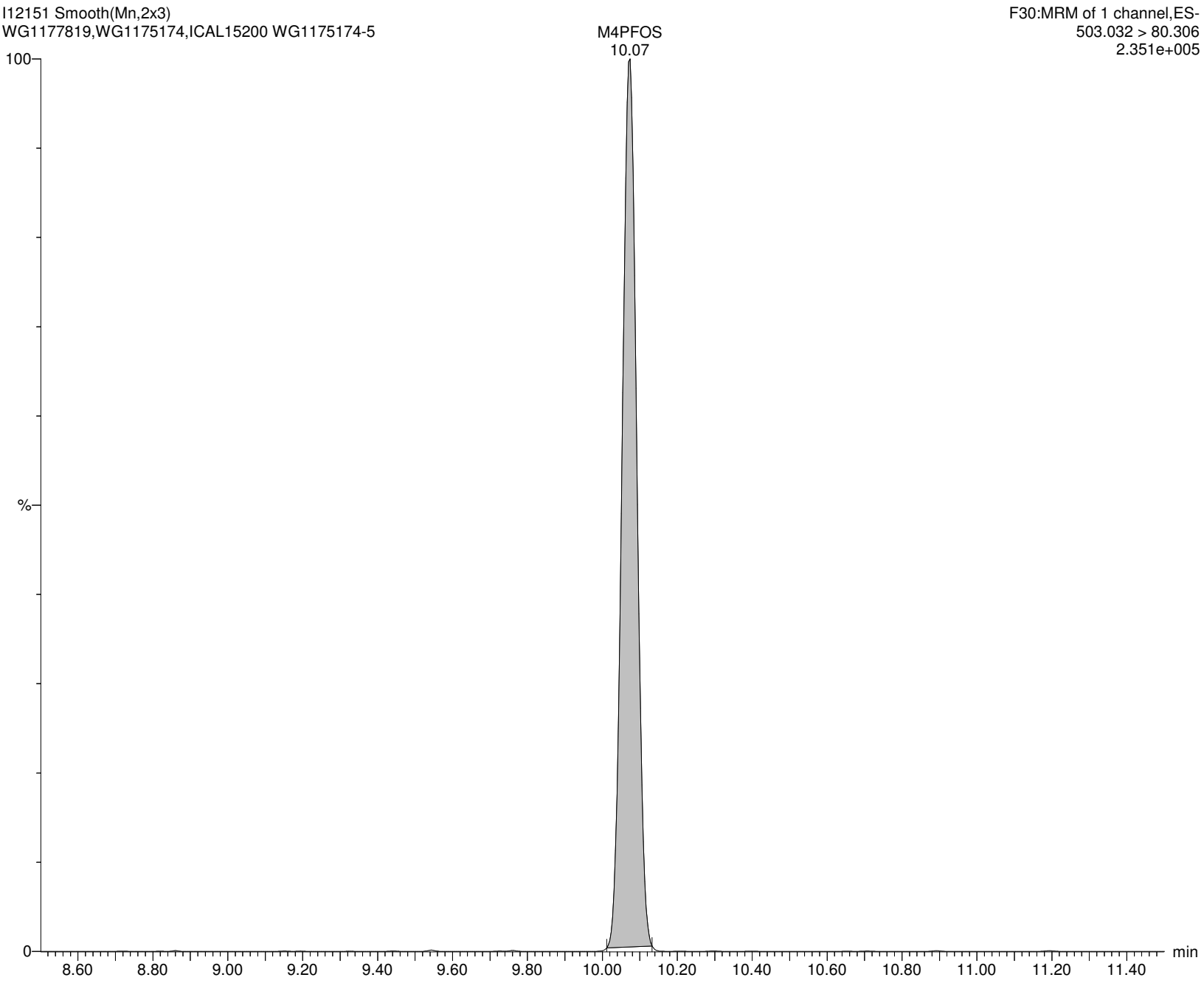

all concentration units in (ng/mL)

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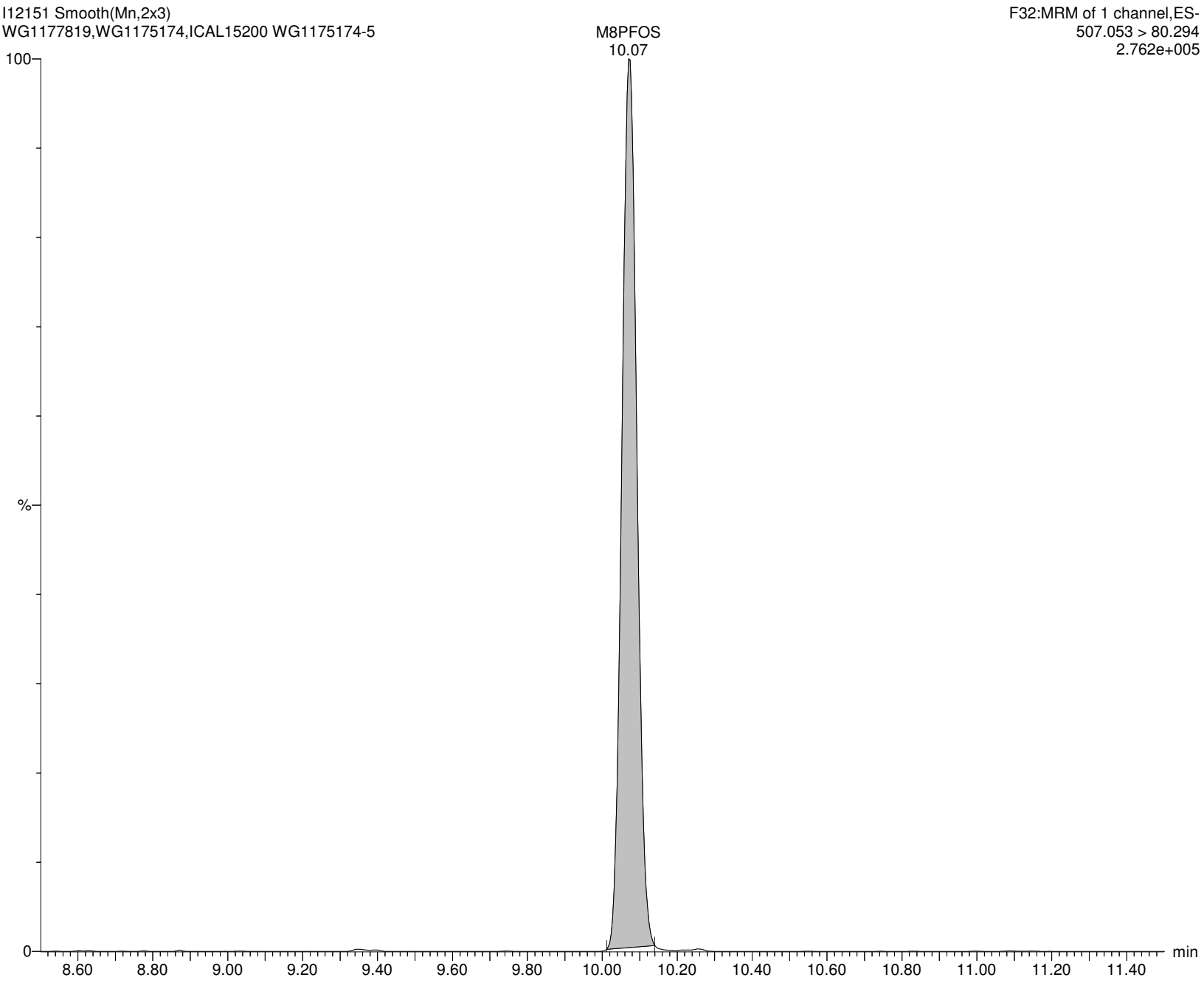

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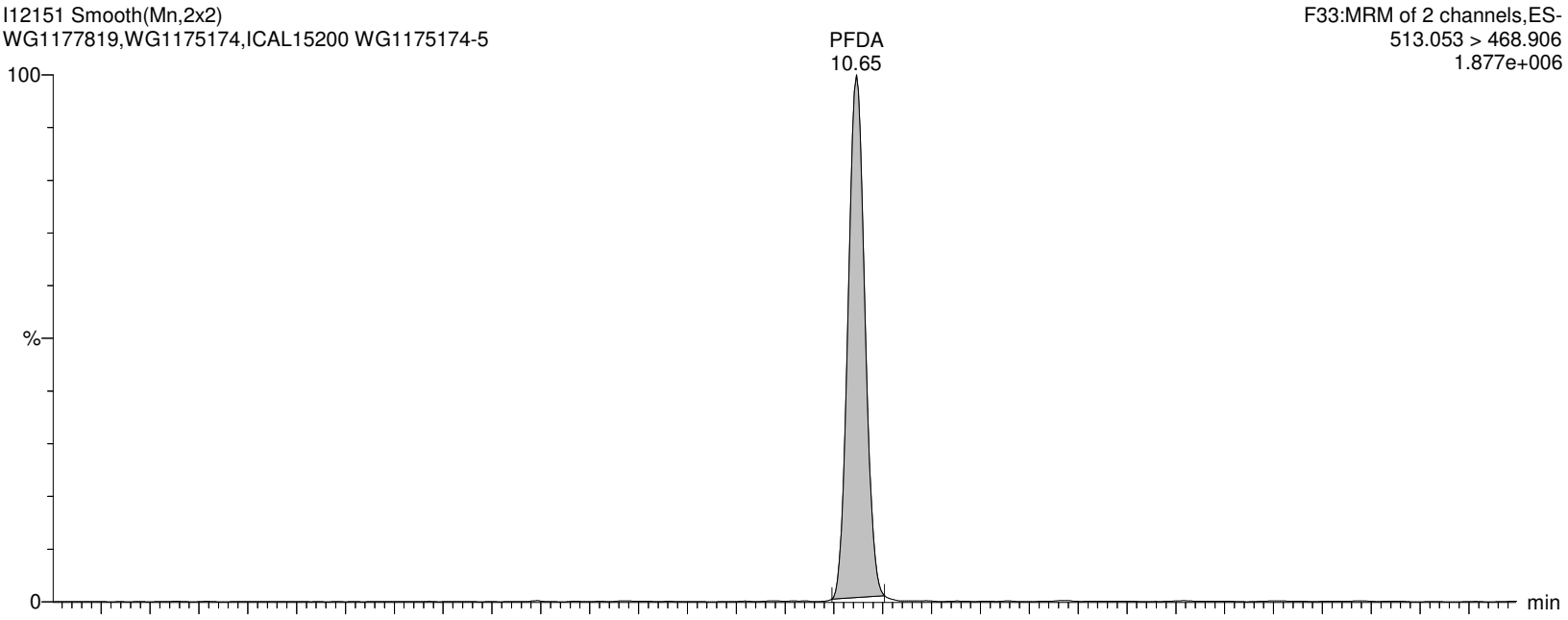

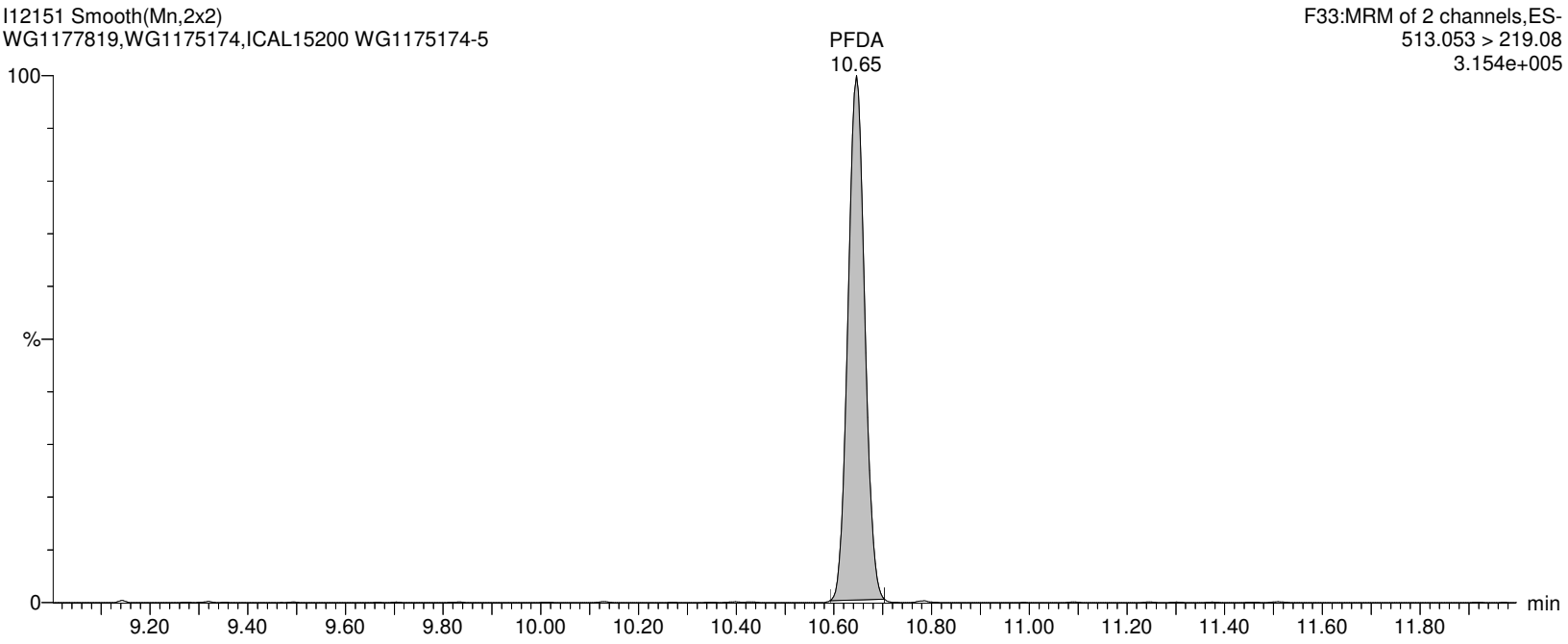

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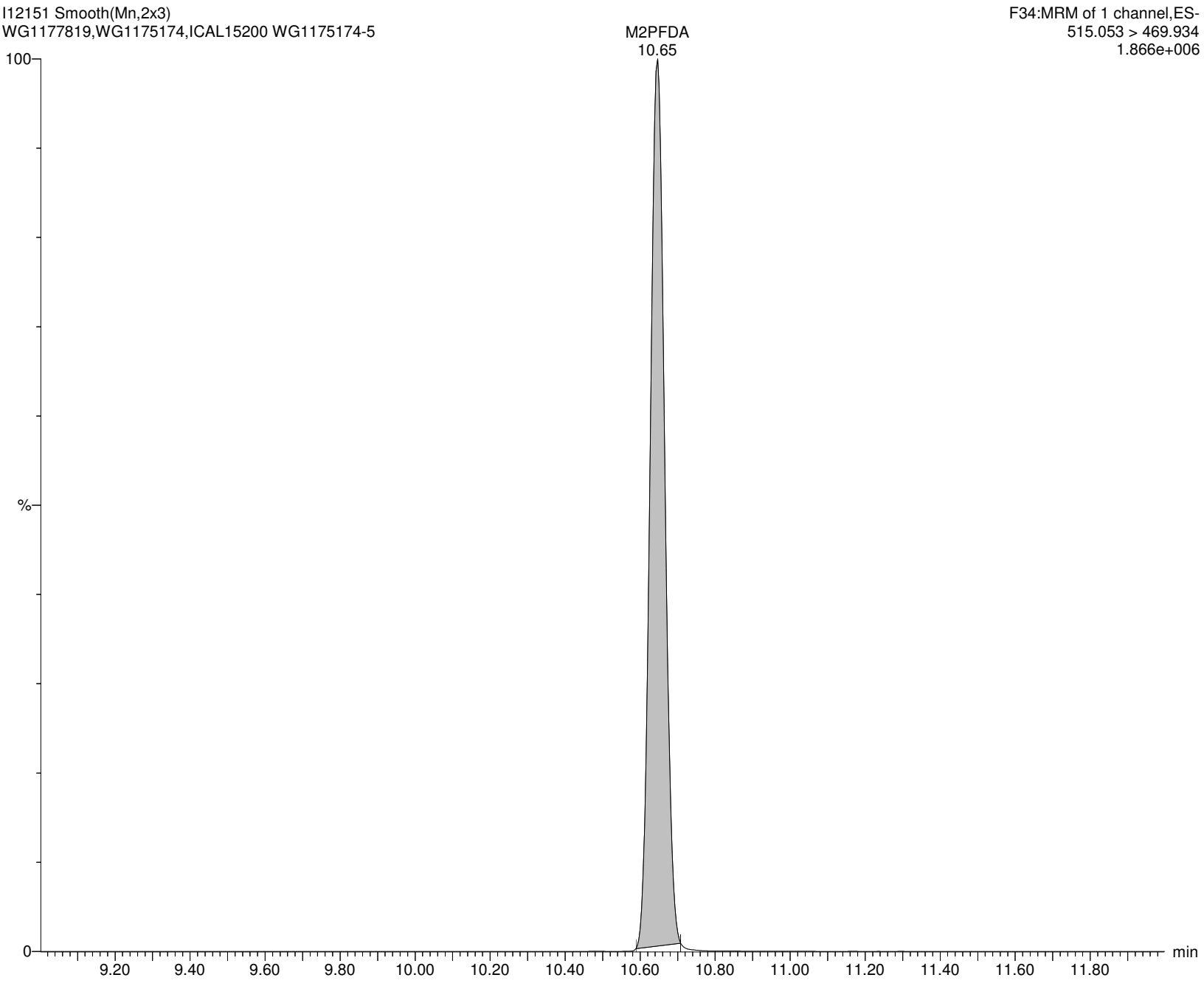

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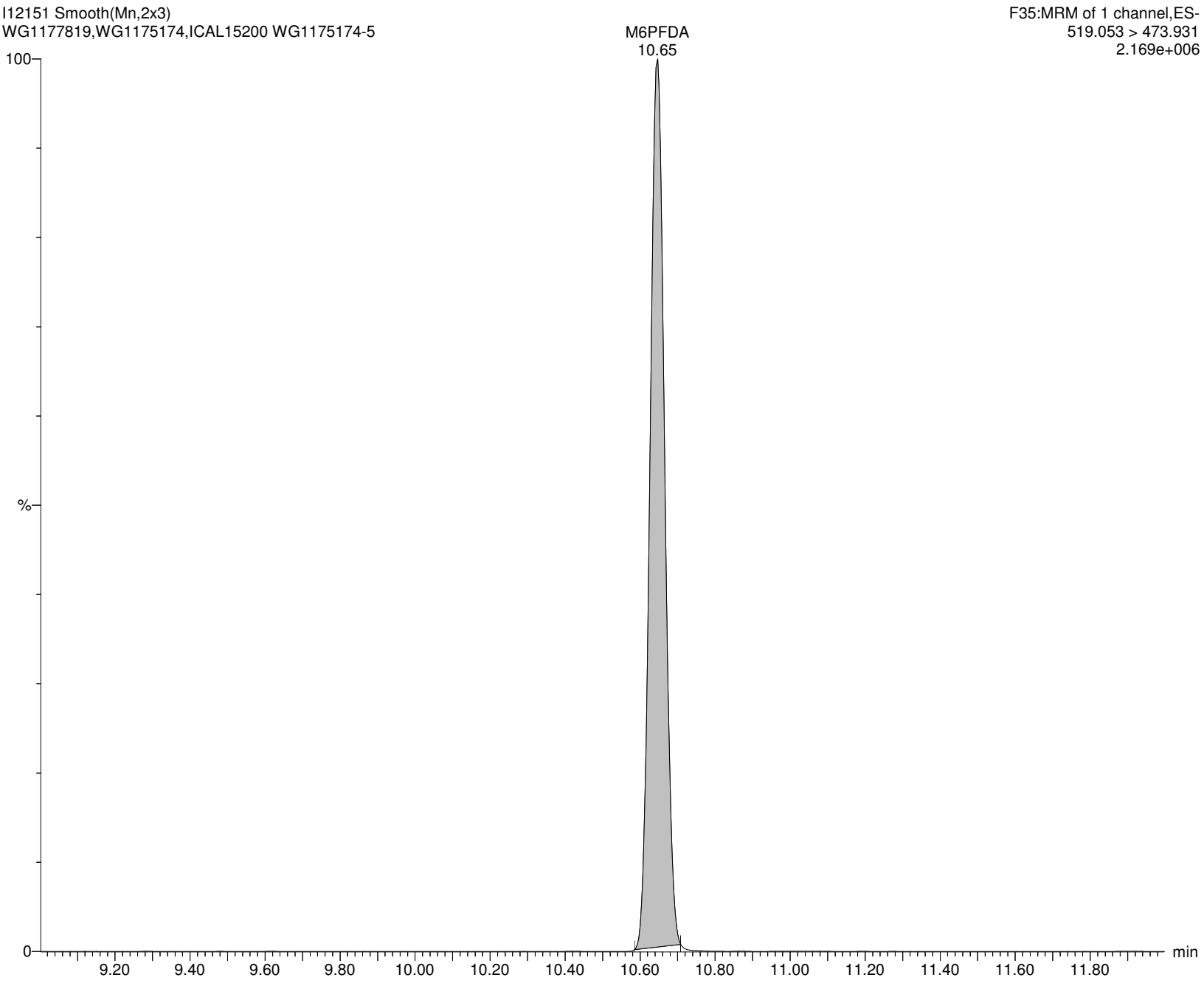

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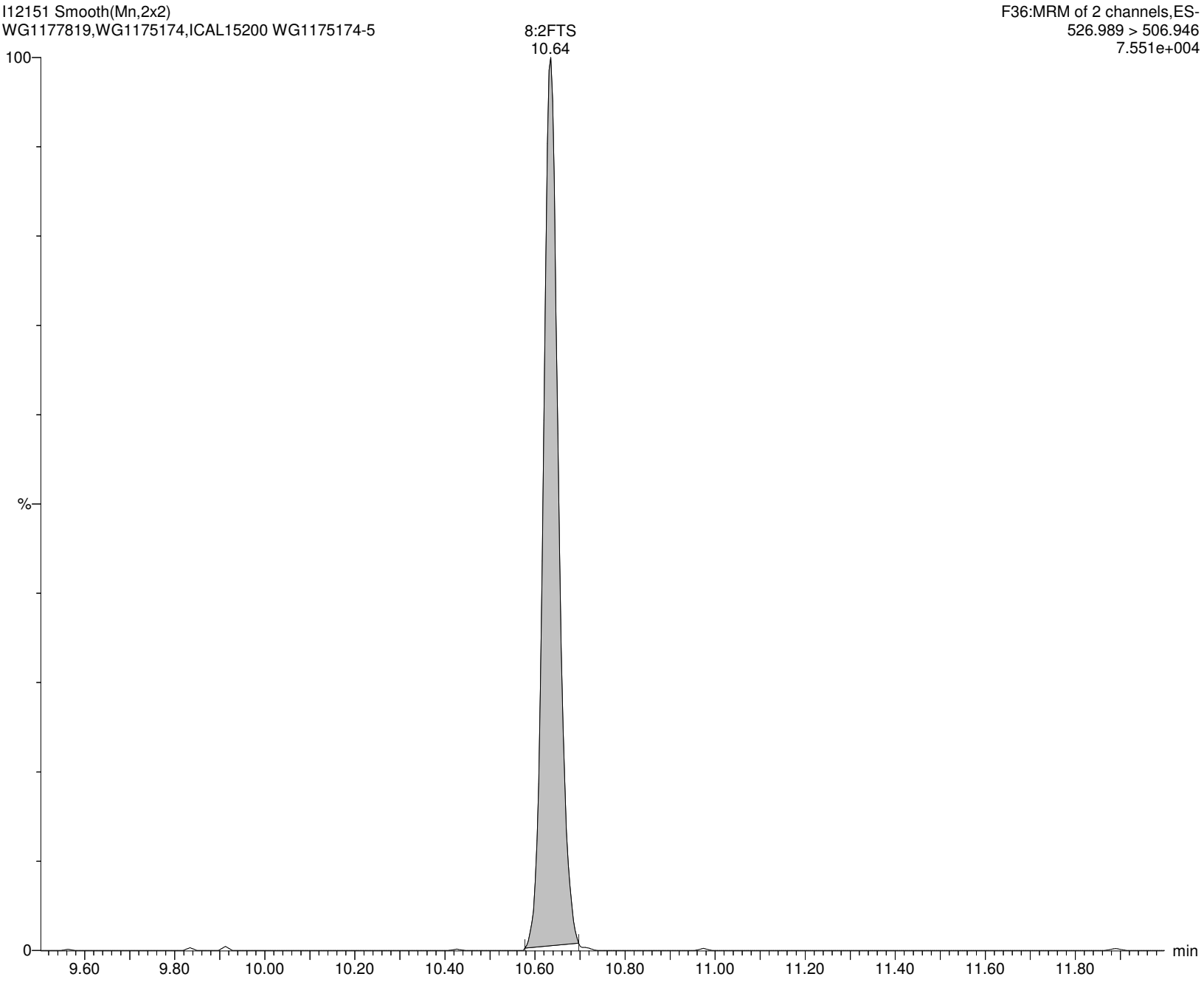

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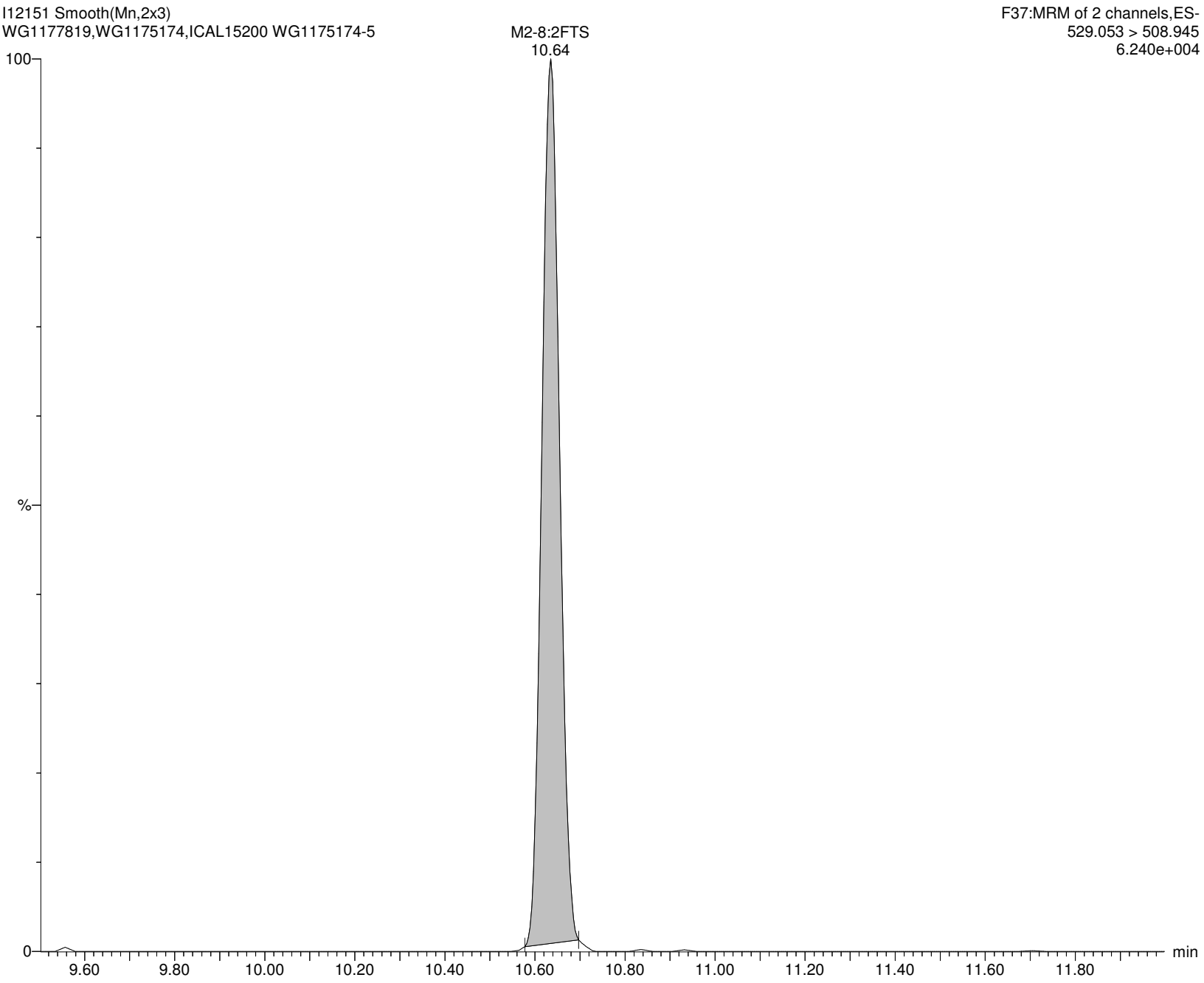

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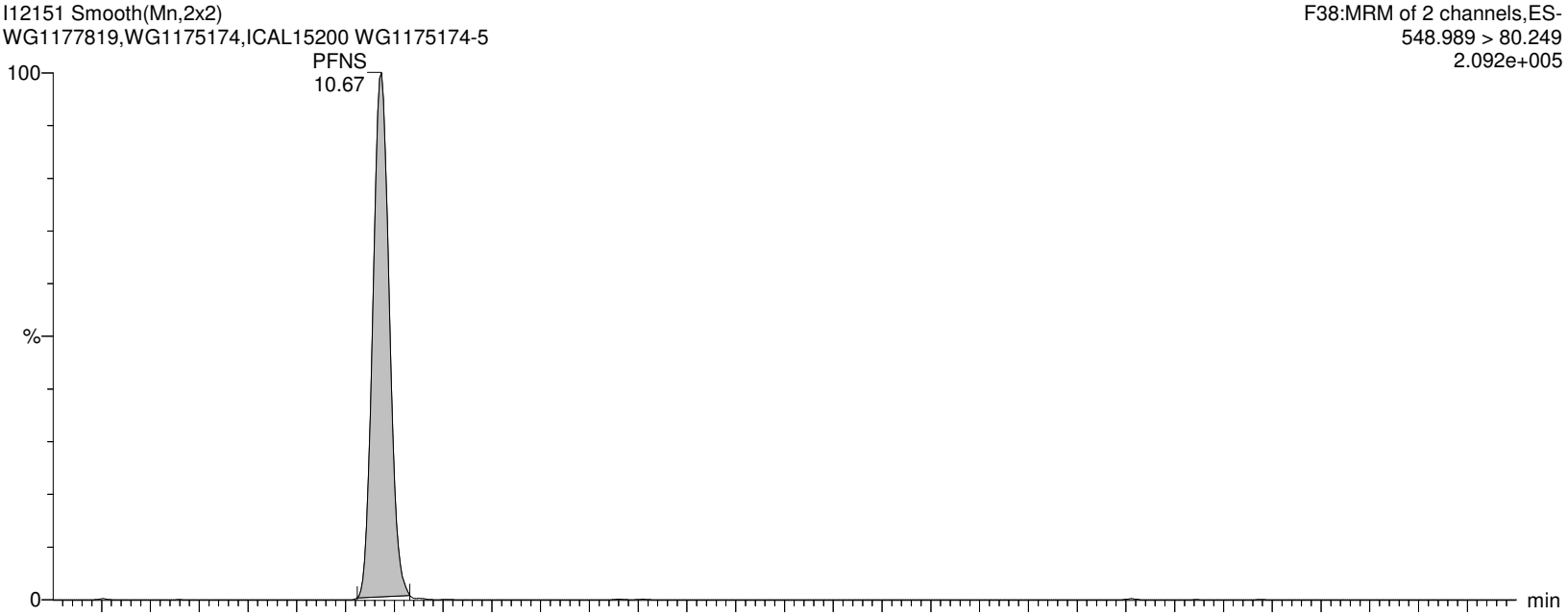

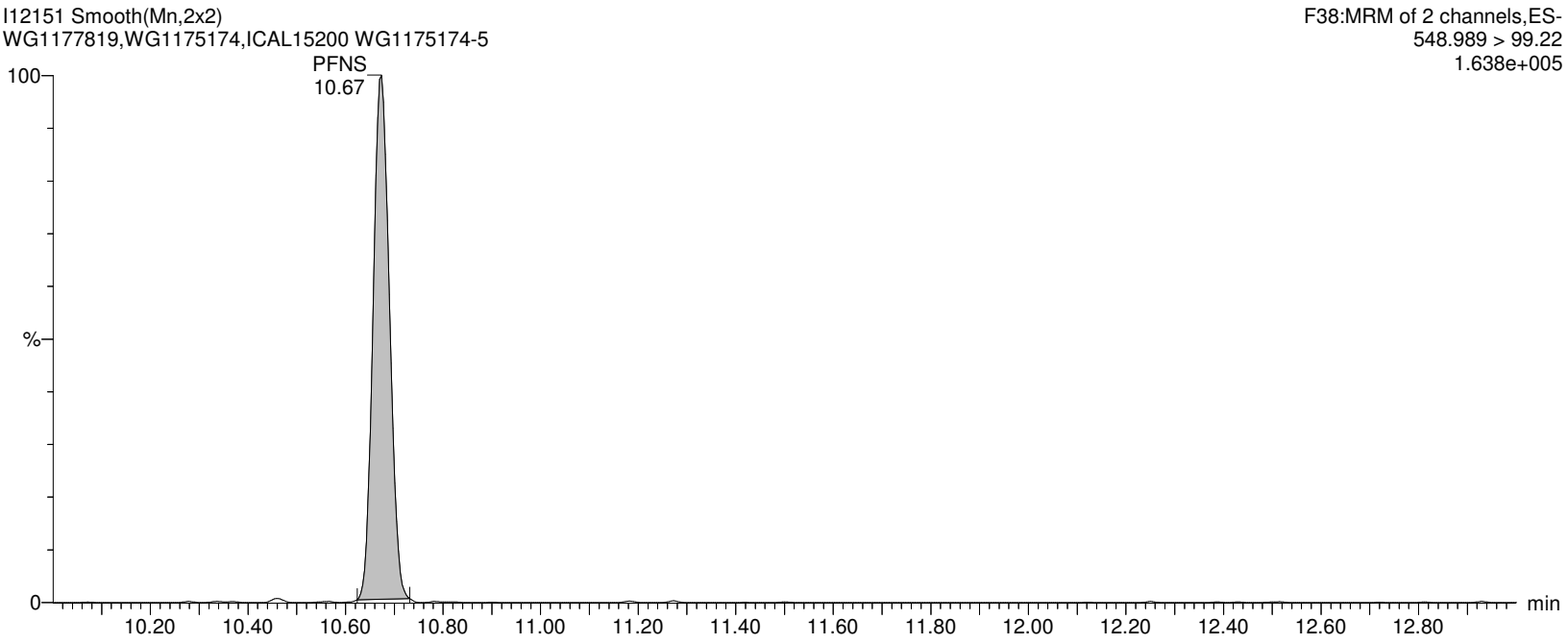

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Vial: 1:C,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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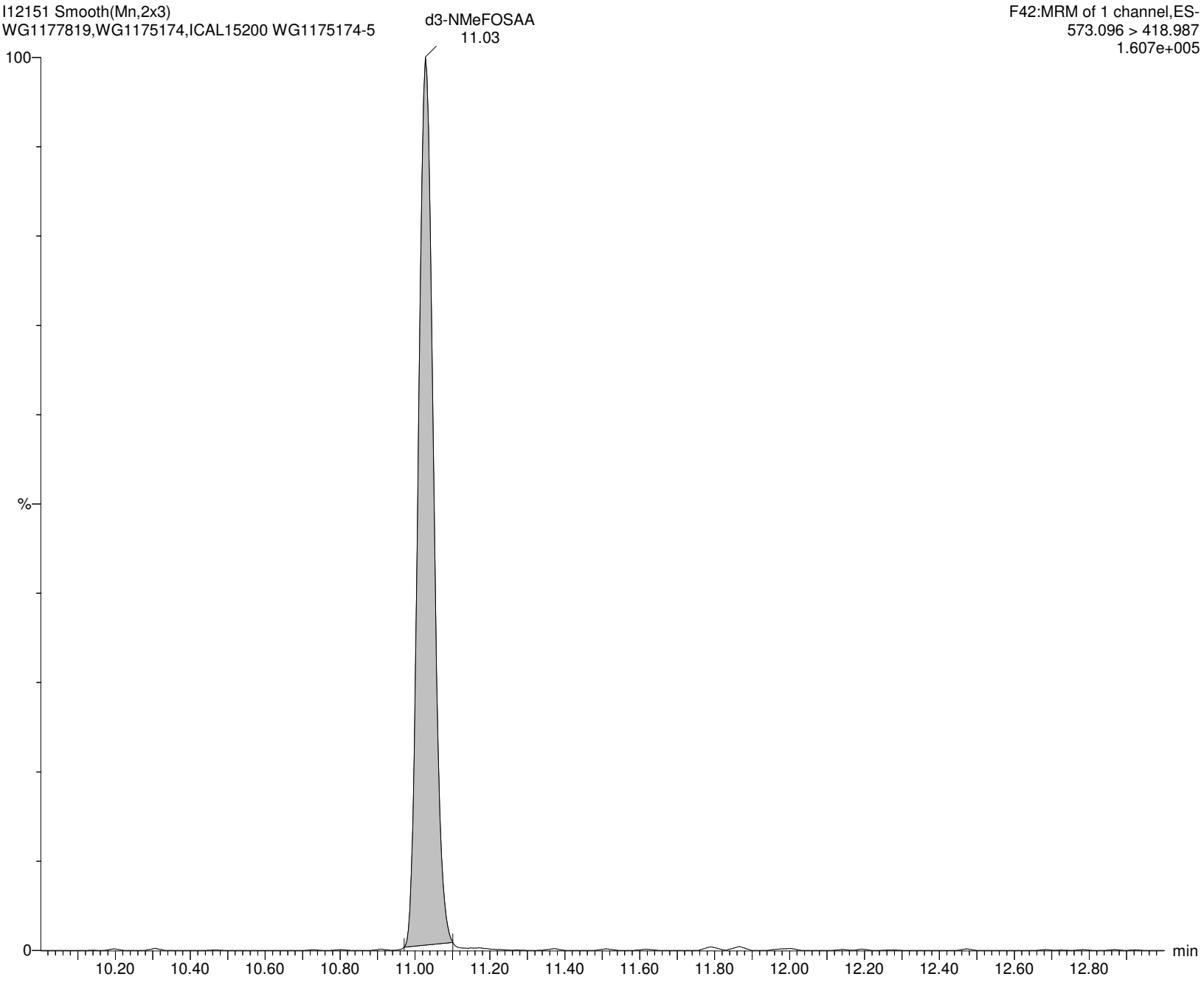

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:06:51 Eastern Standard Time

Name: I12151
ID: WG1175174-5
Date: 10-Nov-2018
Time: 06:35:15
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:C,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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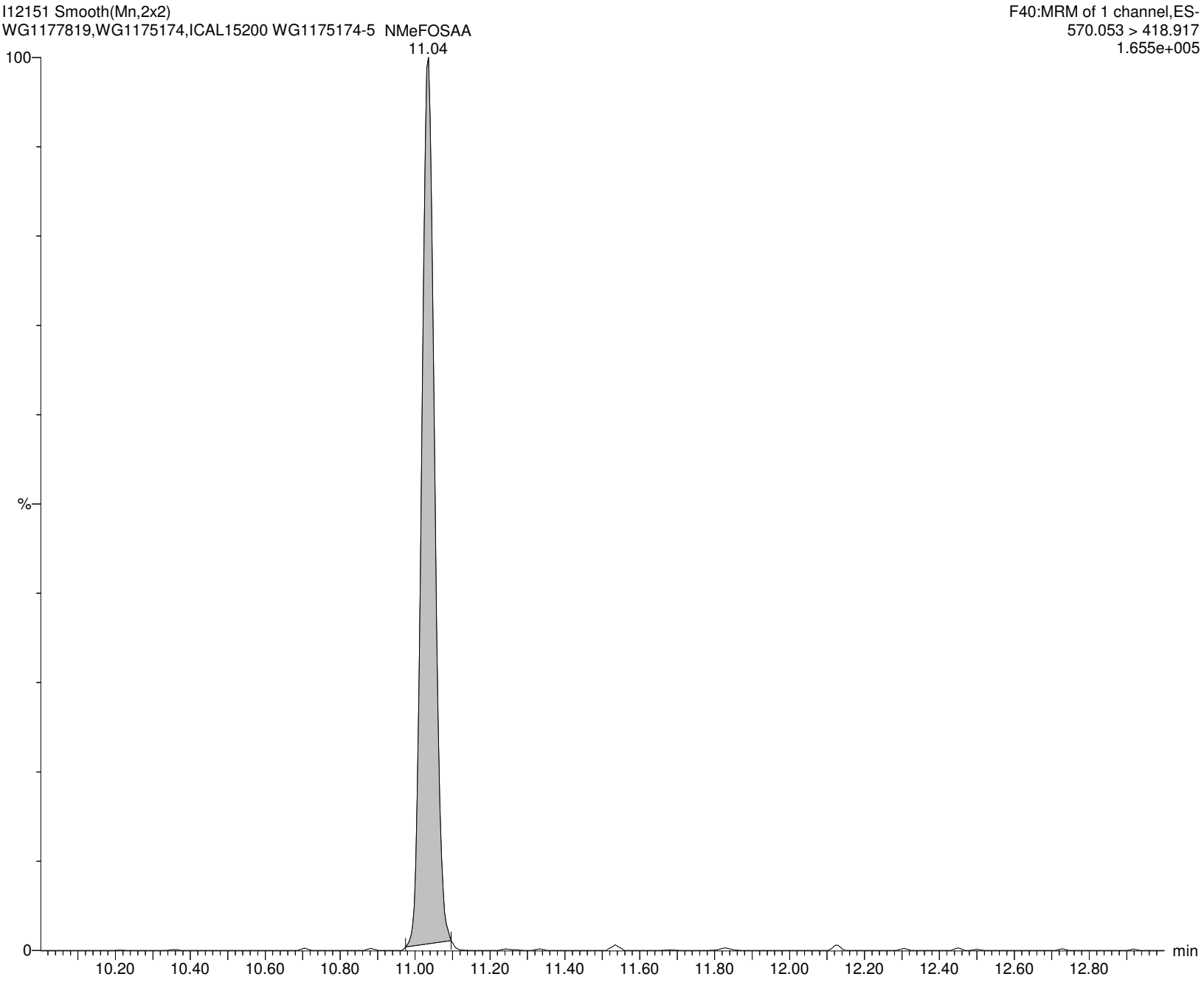

all concentration units in (ng/mL)

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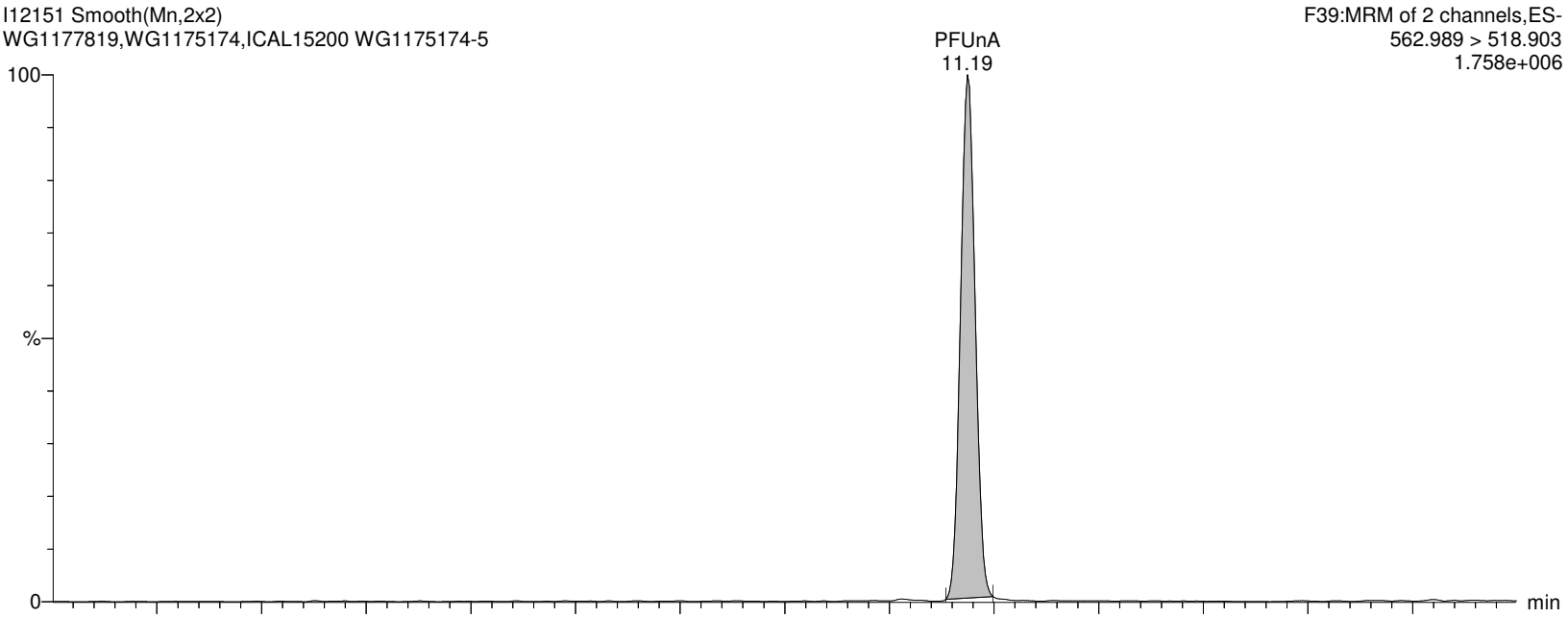
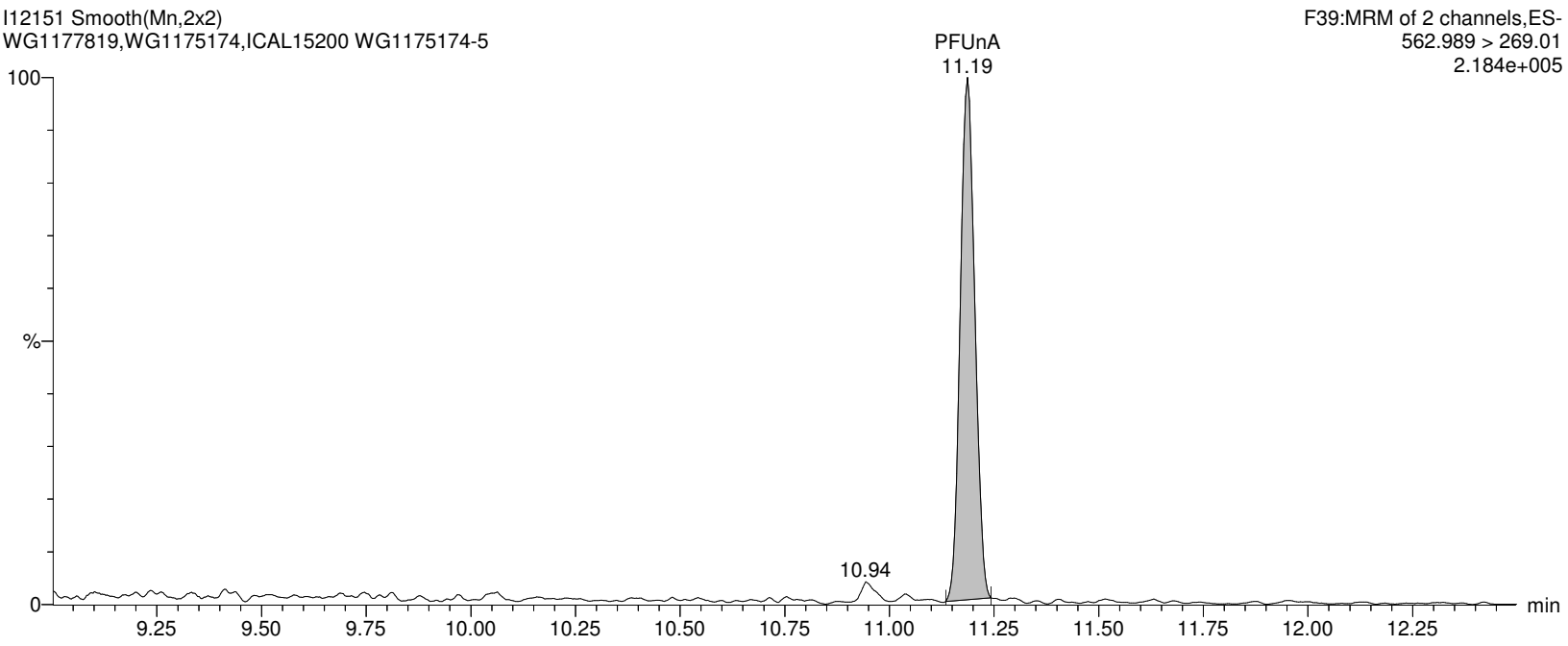
PFUnA





all concentration units in (ng/mL)

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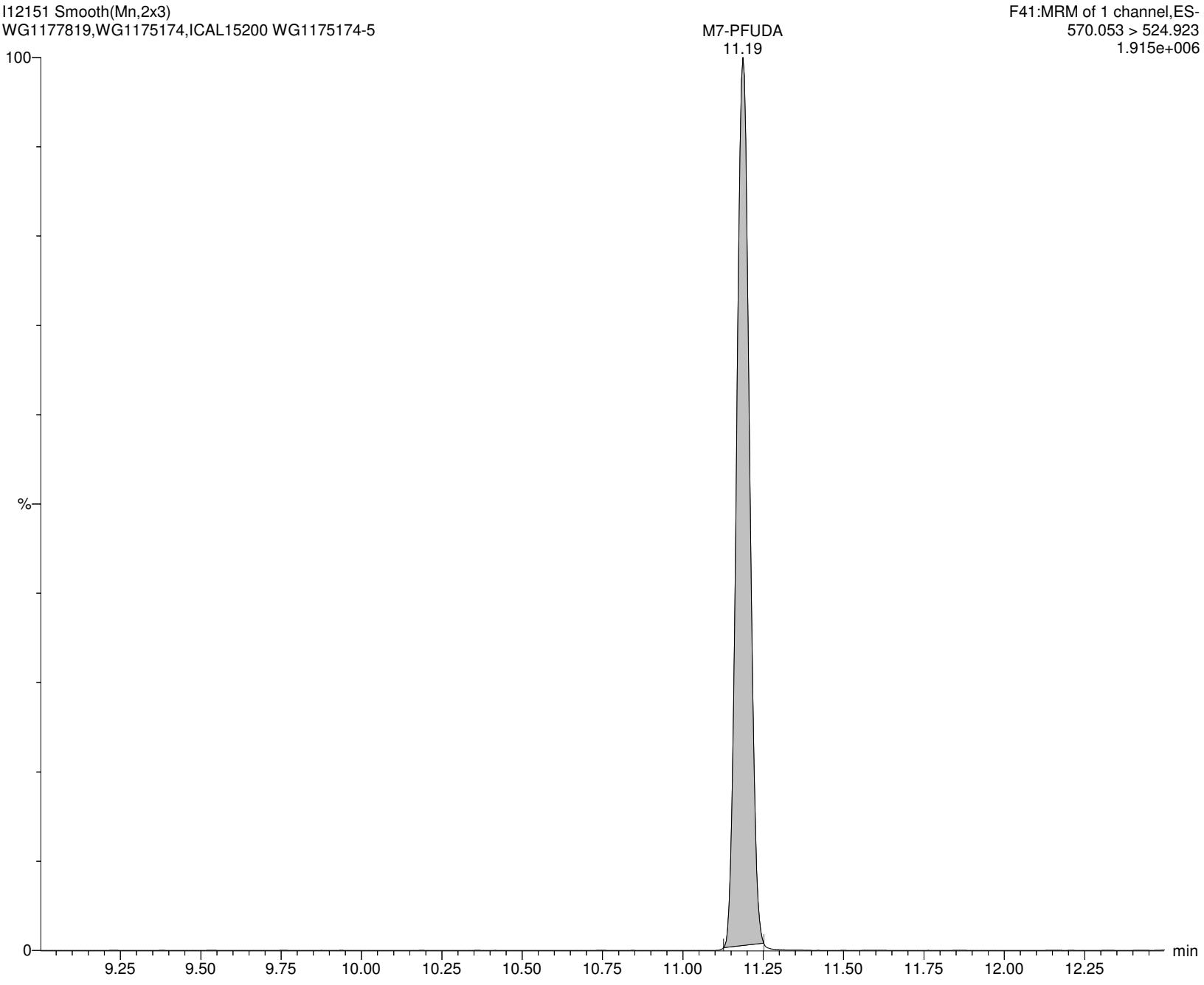
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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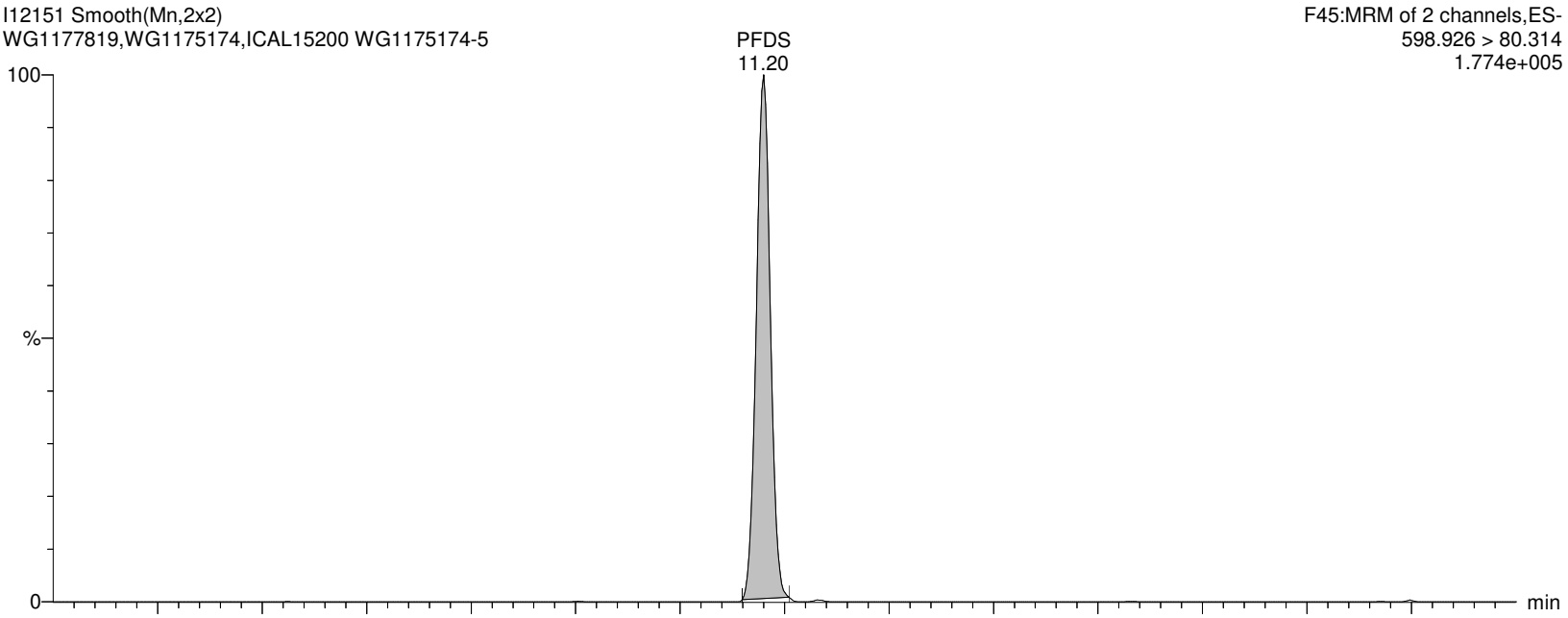

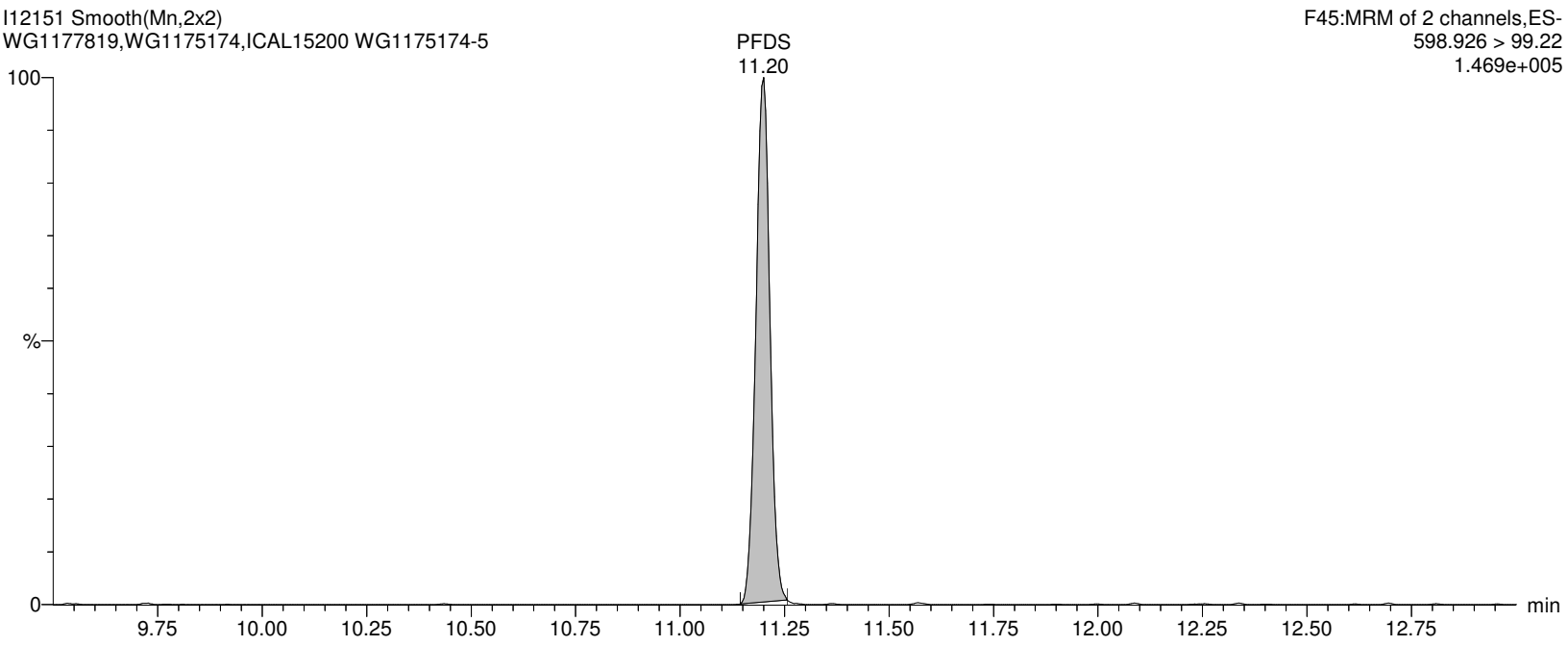

all concentration units in (ng/mL)

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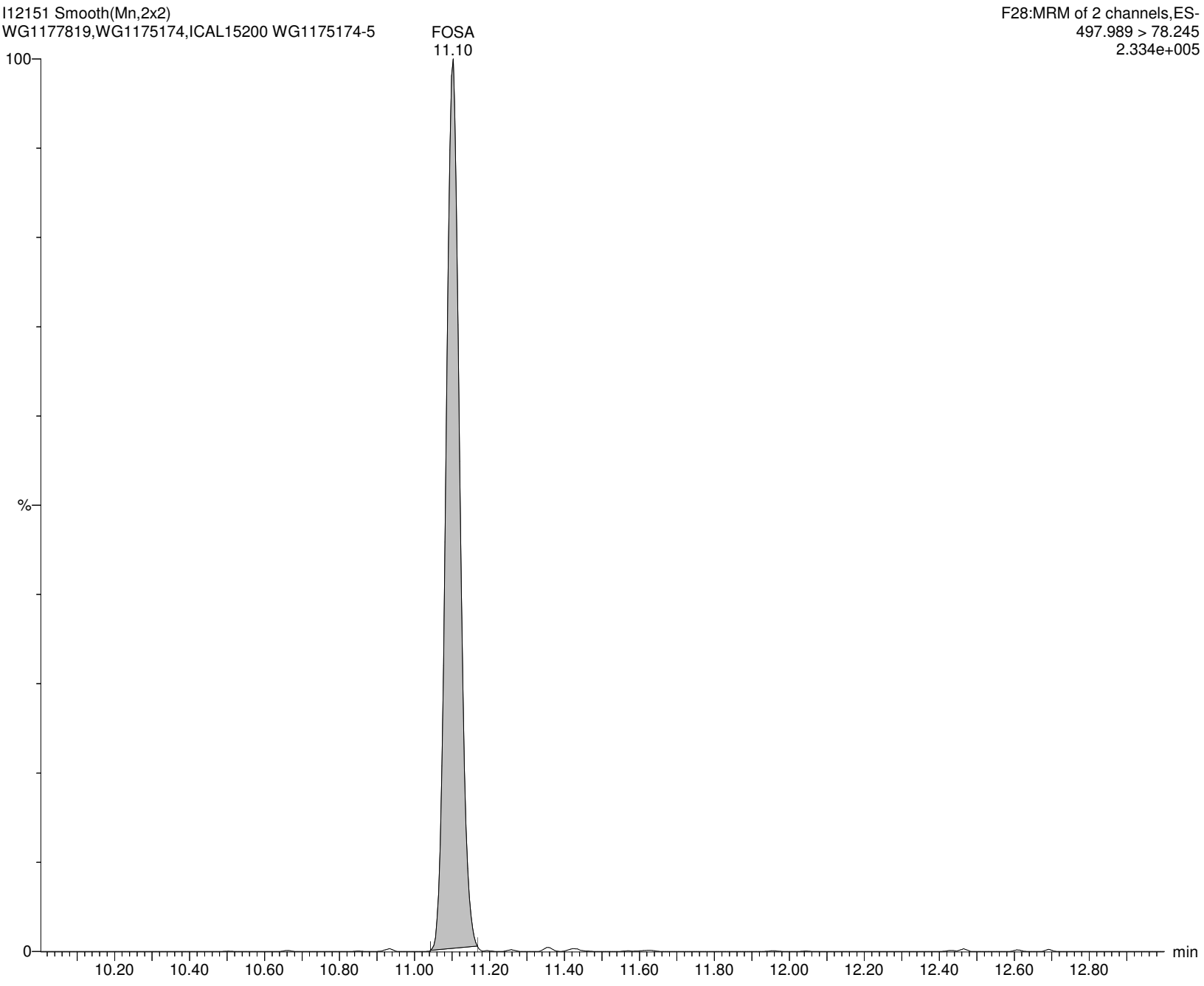
FOSA



all concentration units in (ng/mL)

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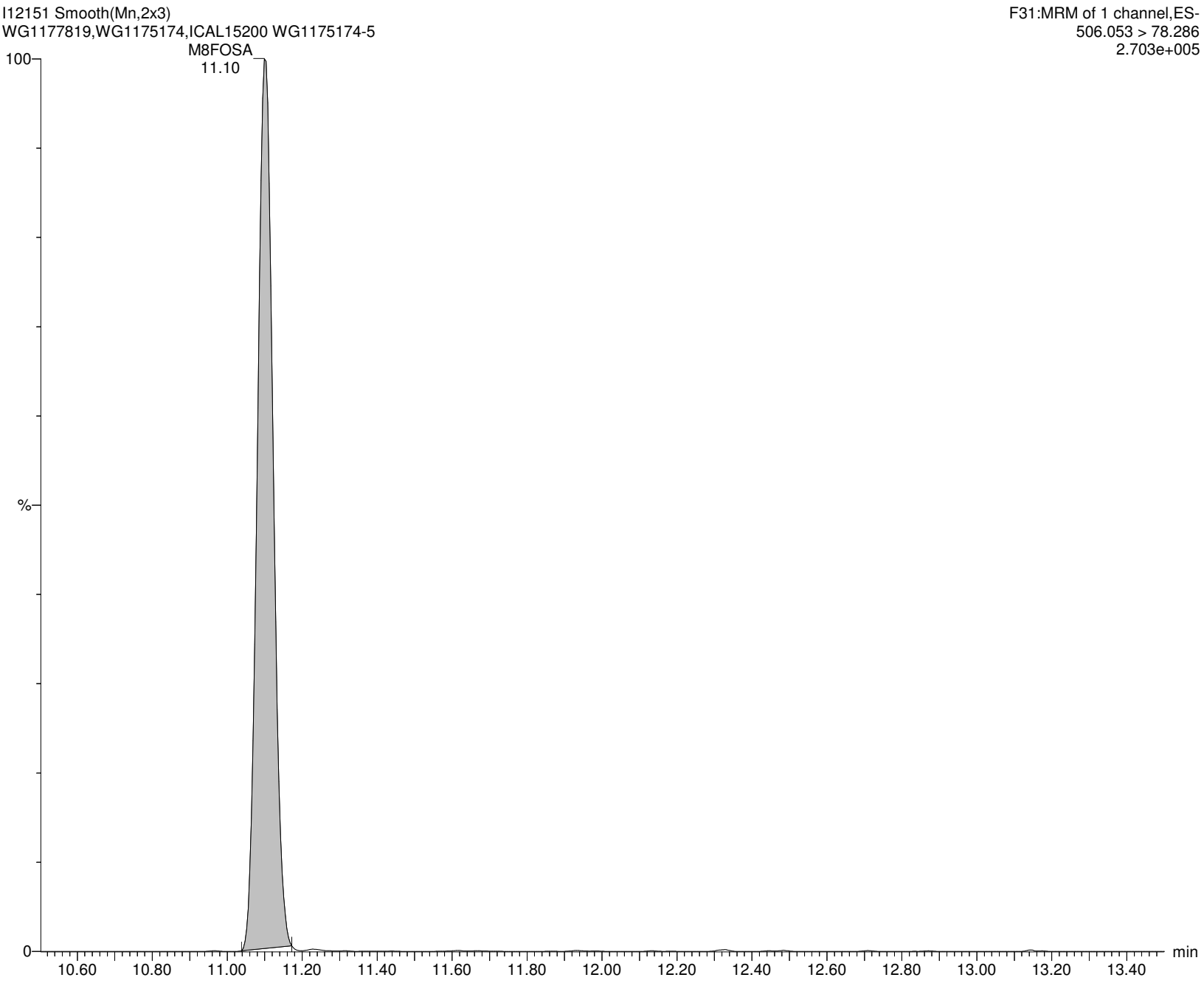

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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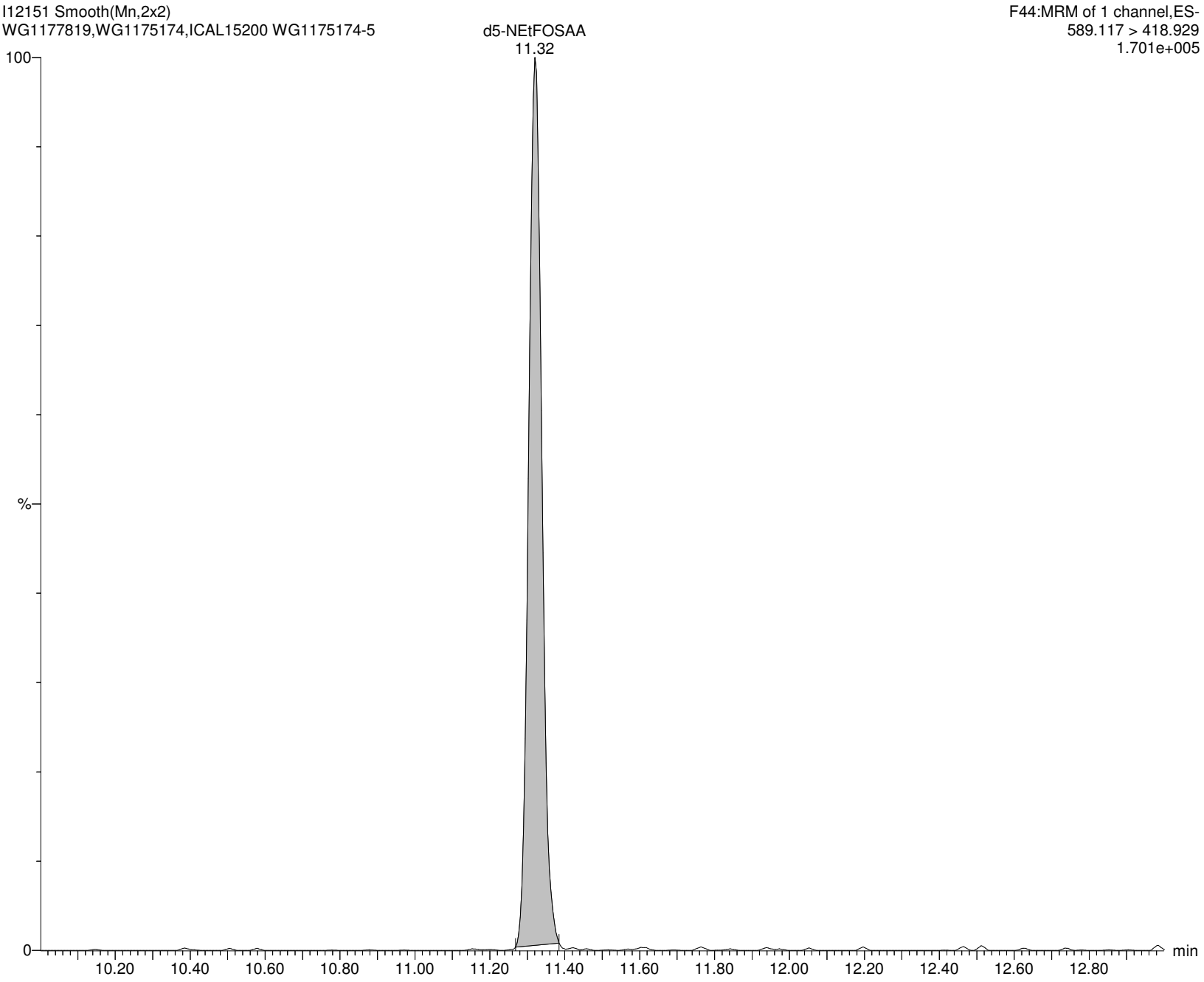
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

d5-NEtFOSAA



all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

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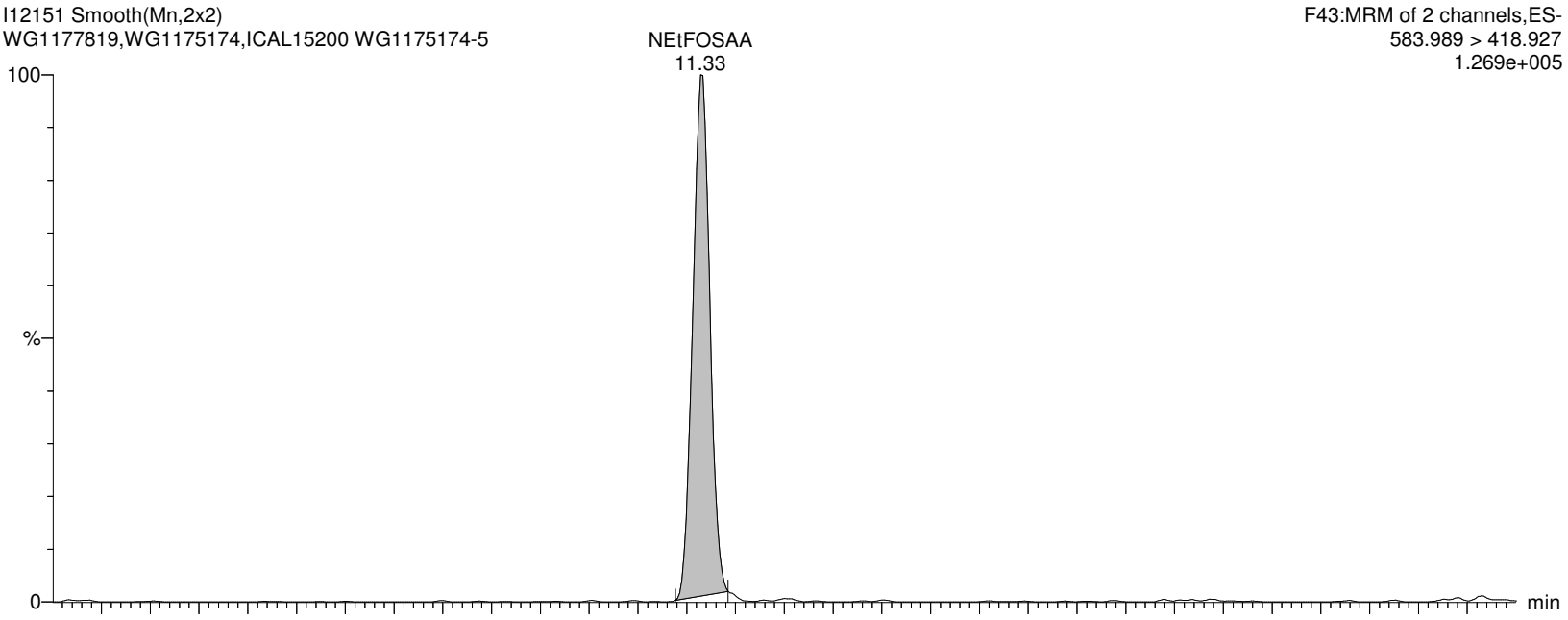

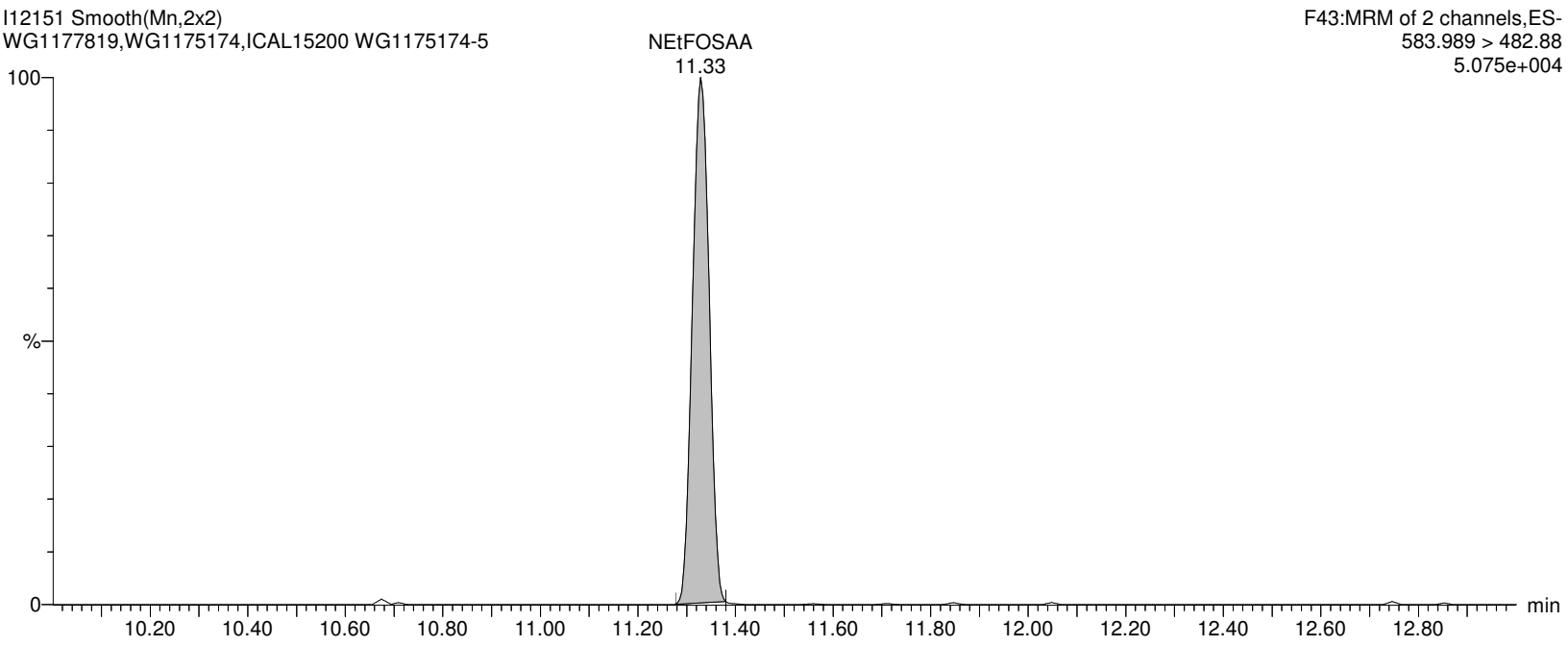

all concentration units in (ng/mL)

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Date: 10-Nov-2018
Time: 06:35:15
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Vial: 1:C,4
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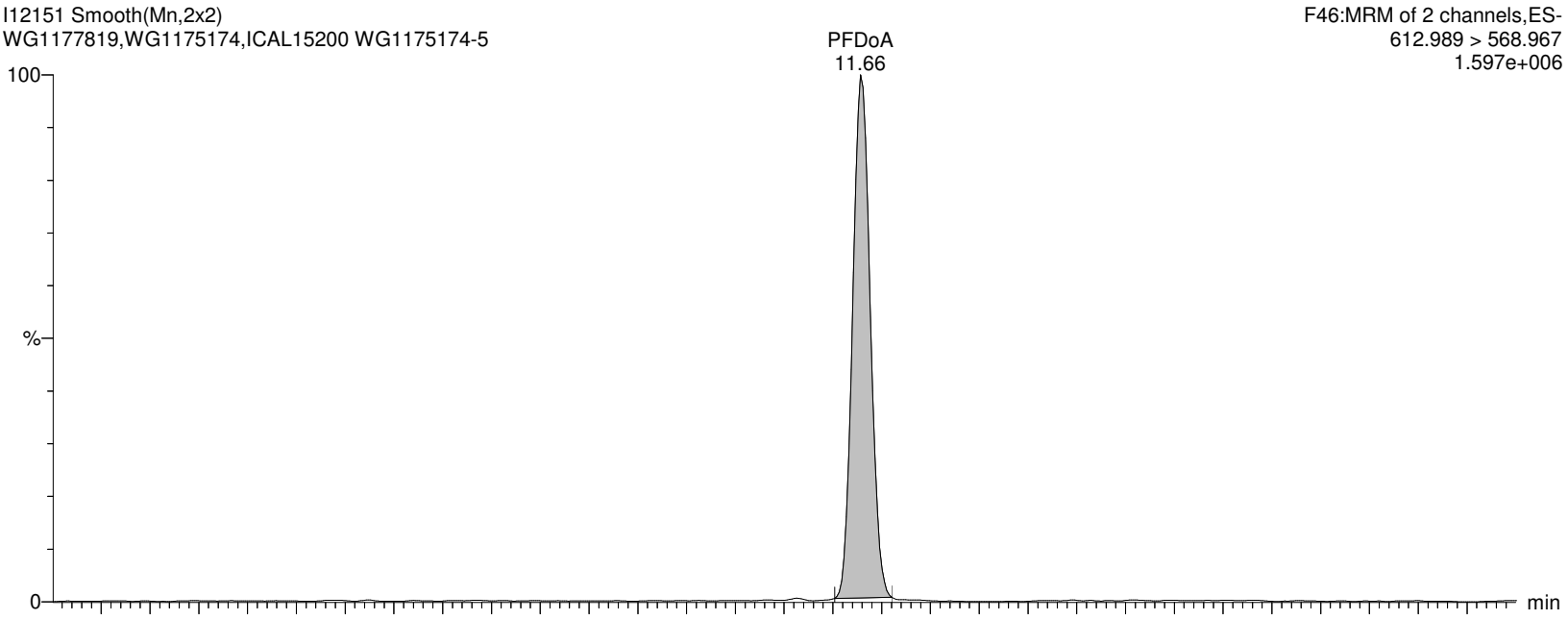
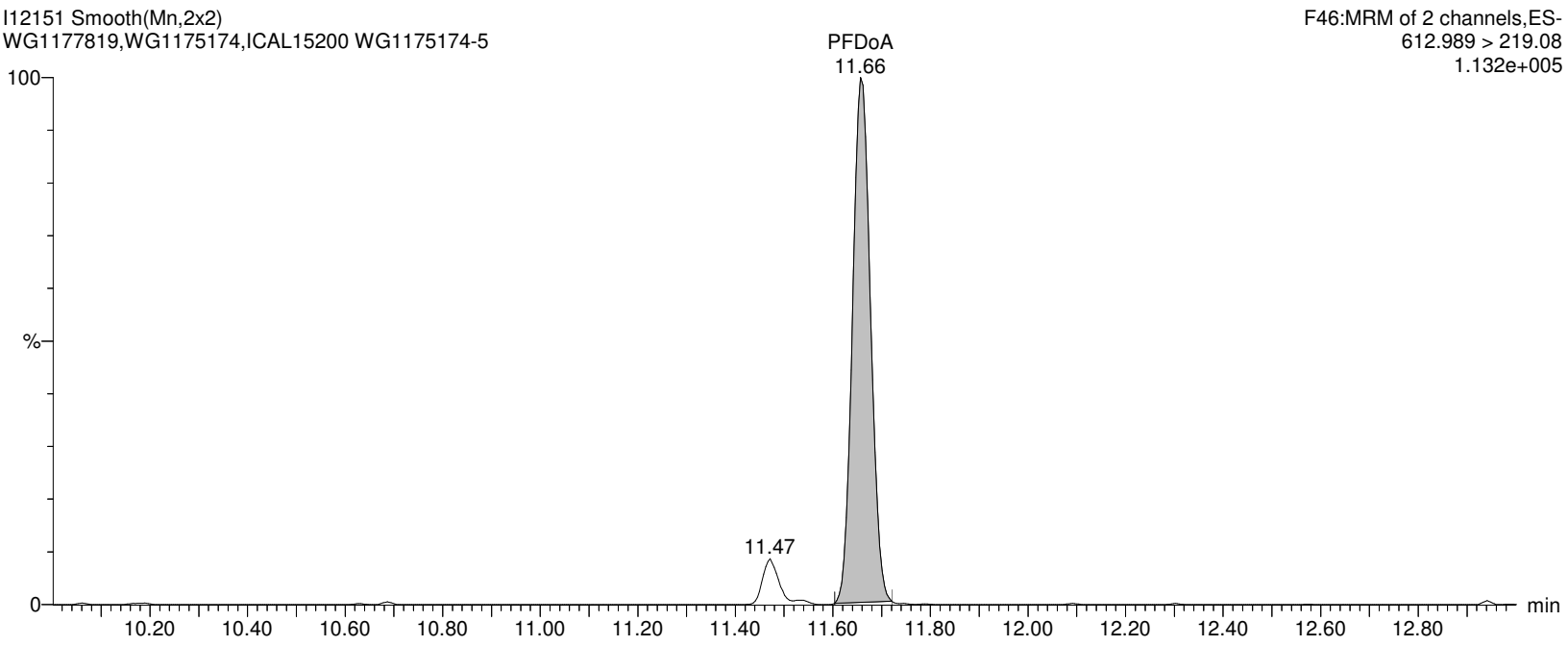
PFDoA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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ID: WG1175174-5
Date: 10-Nov-2018
Time: 06:35:15
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Vial: 1:C,4
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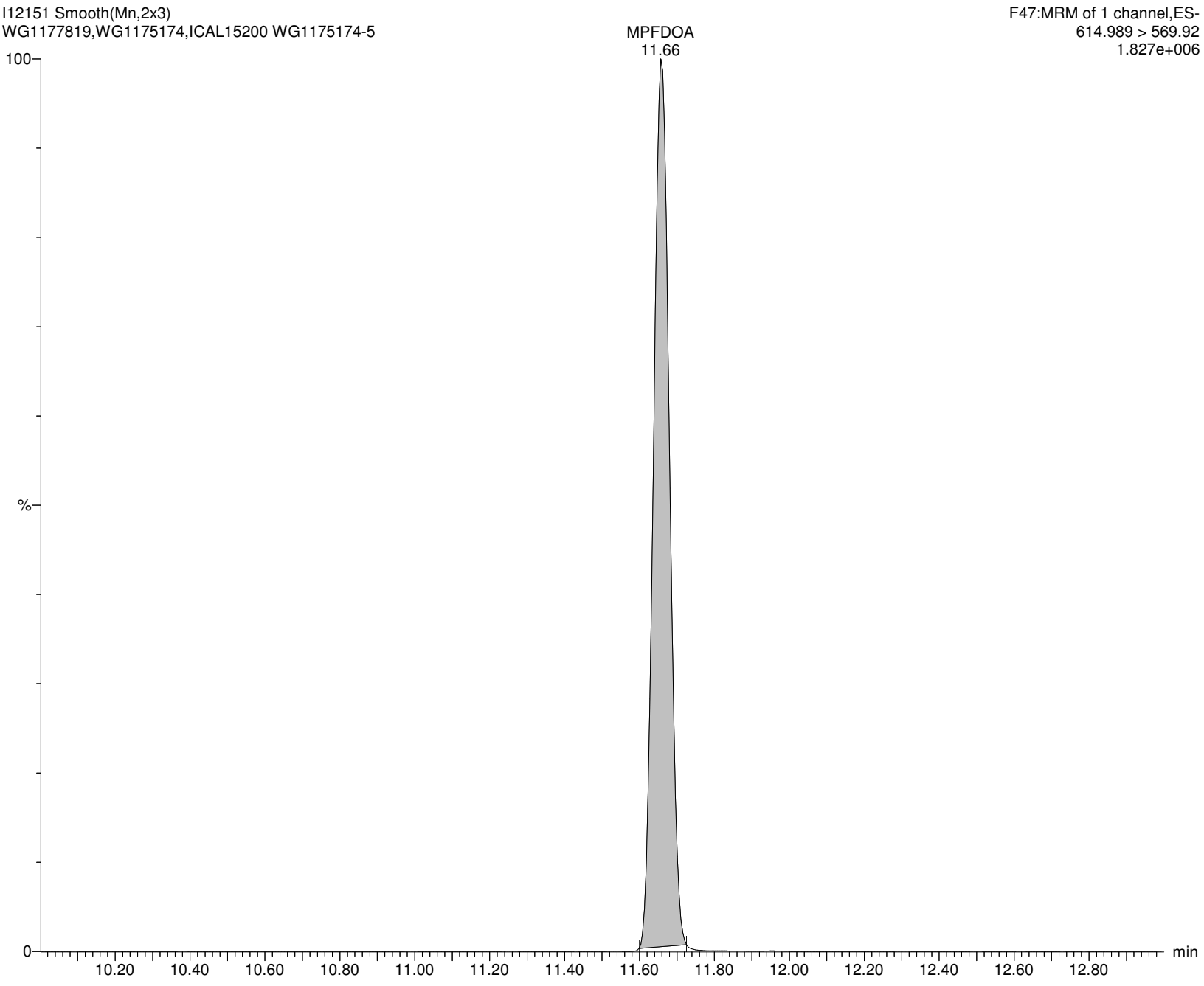

all concentration units in (ng/mL)

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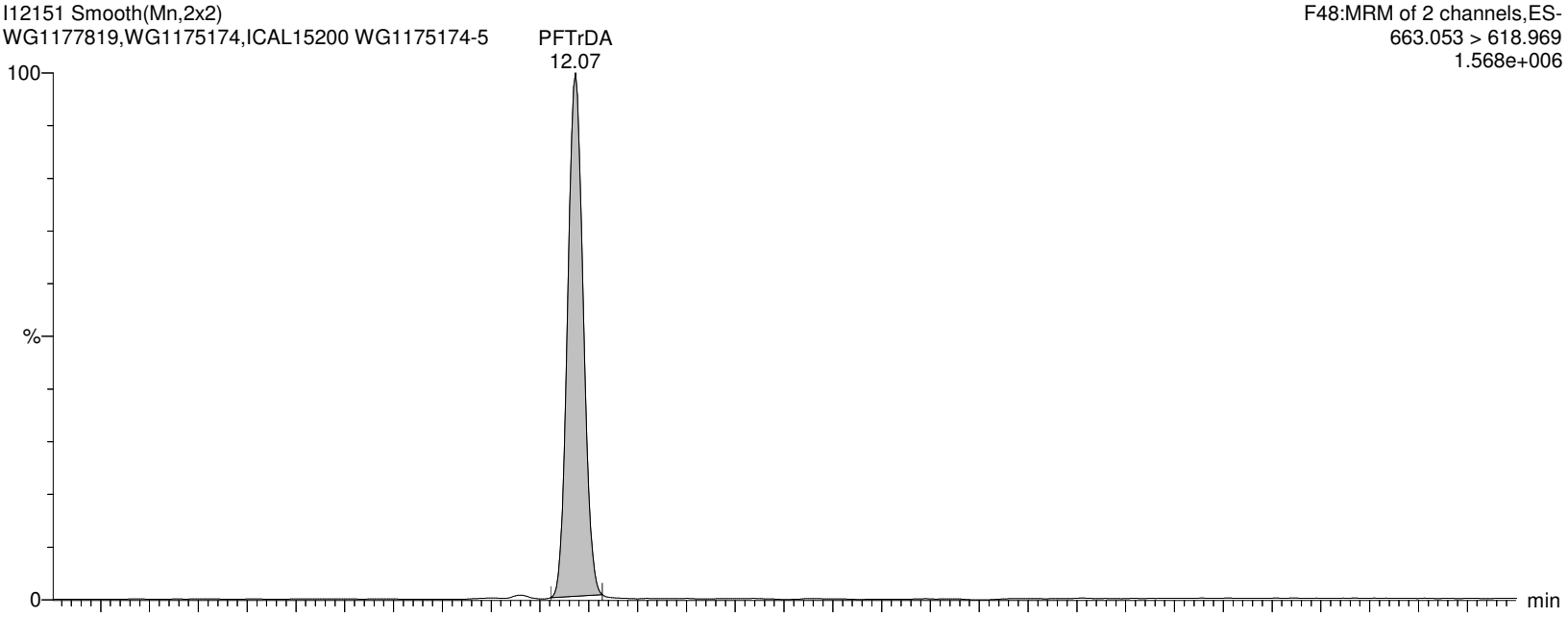

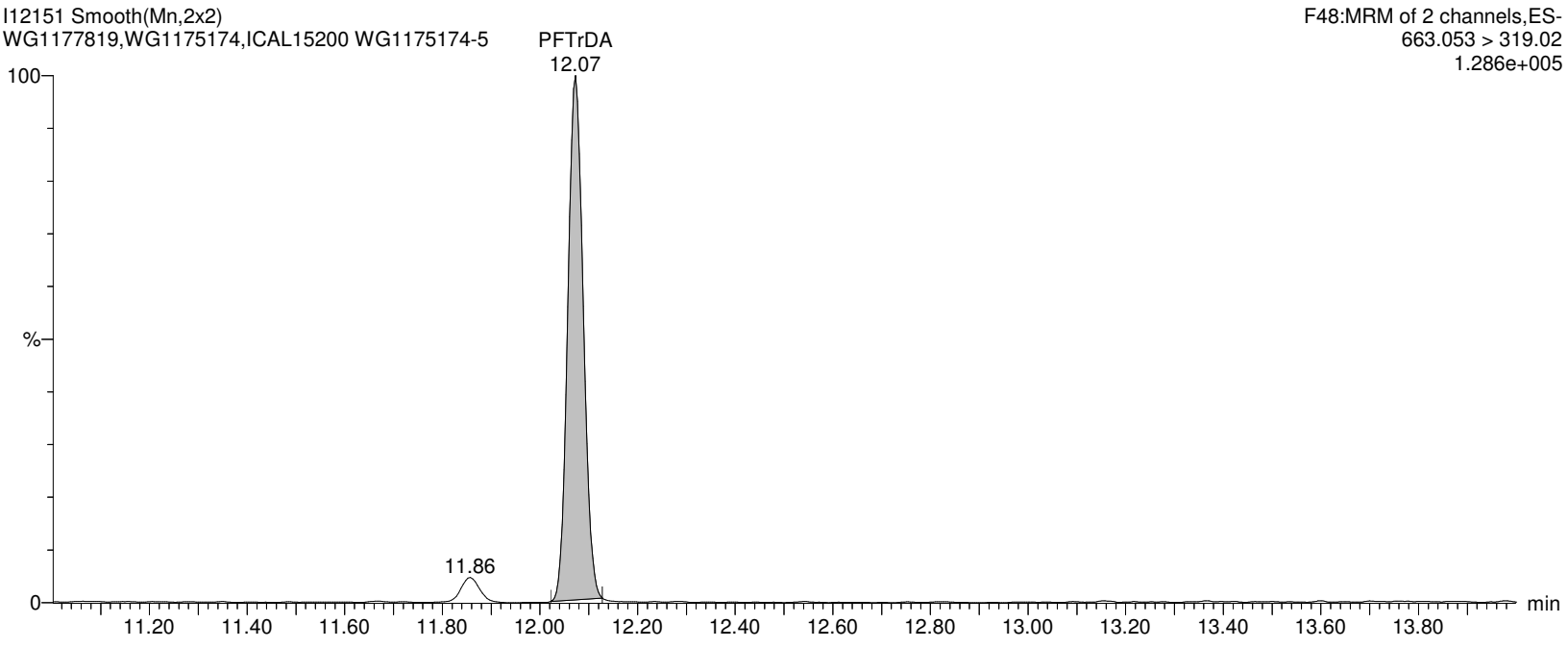

all concentration units in (ng/mL)

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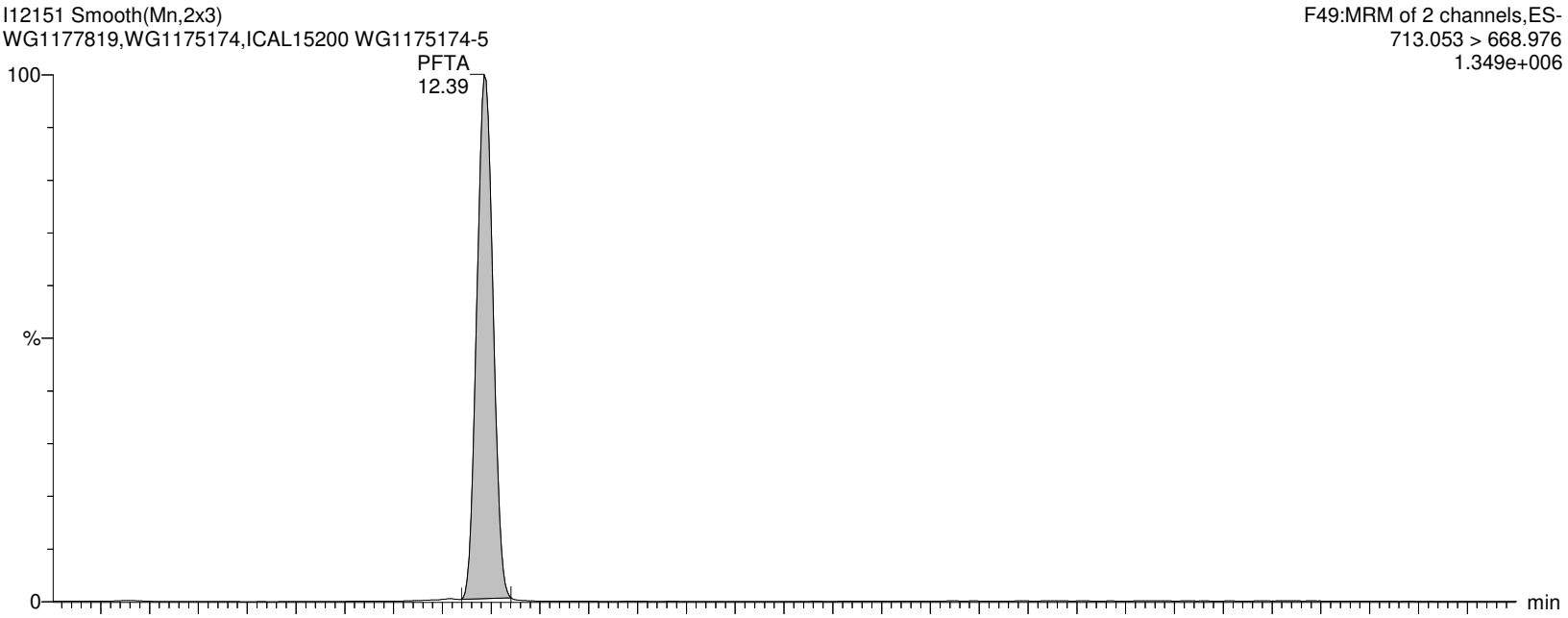

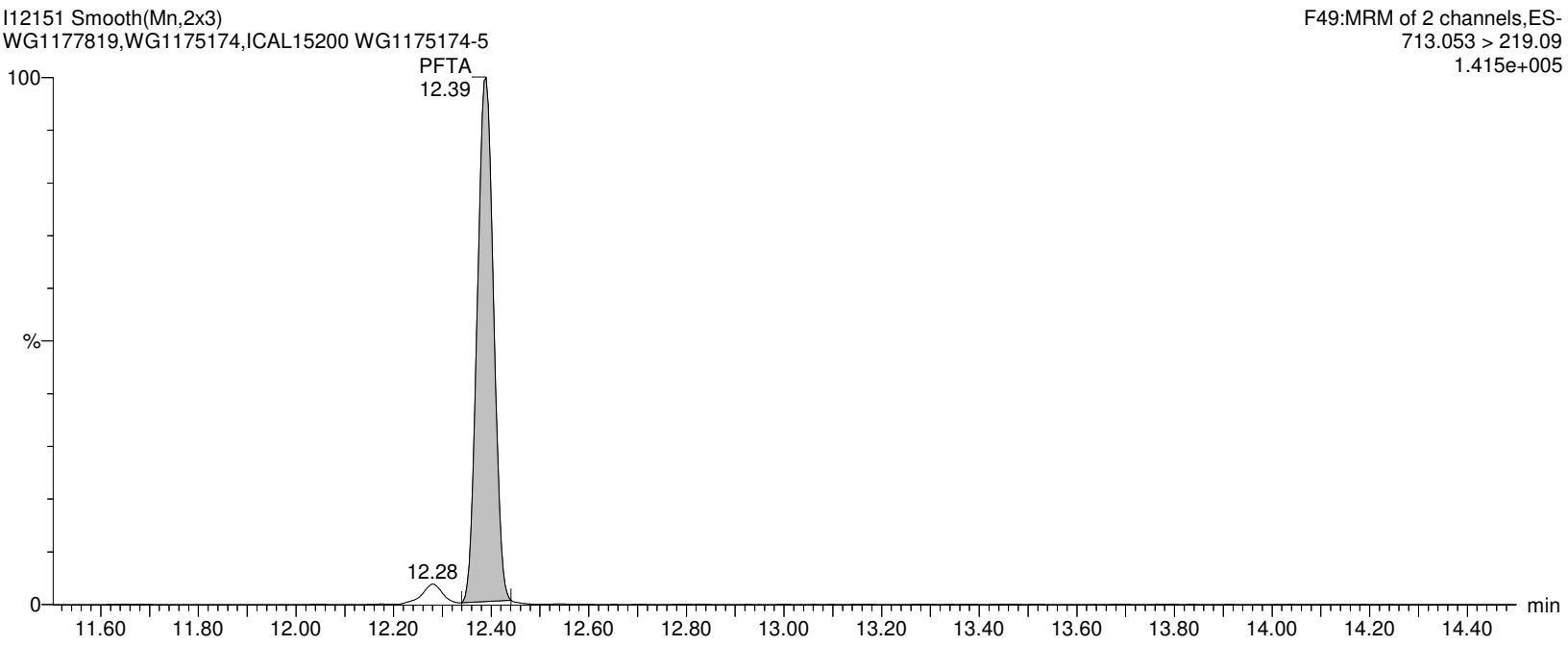

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
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Date: 10-Nov-2018
Time: 06:35:15
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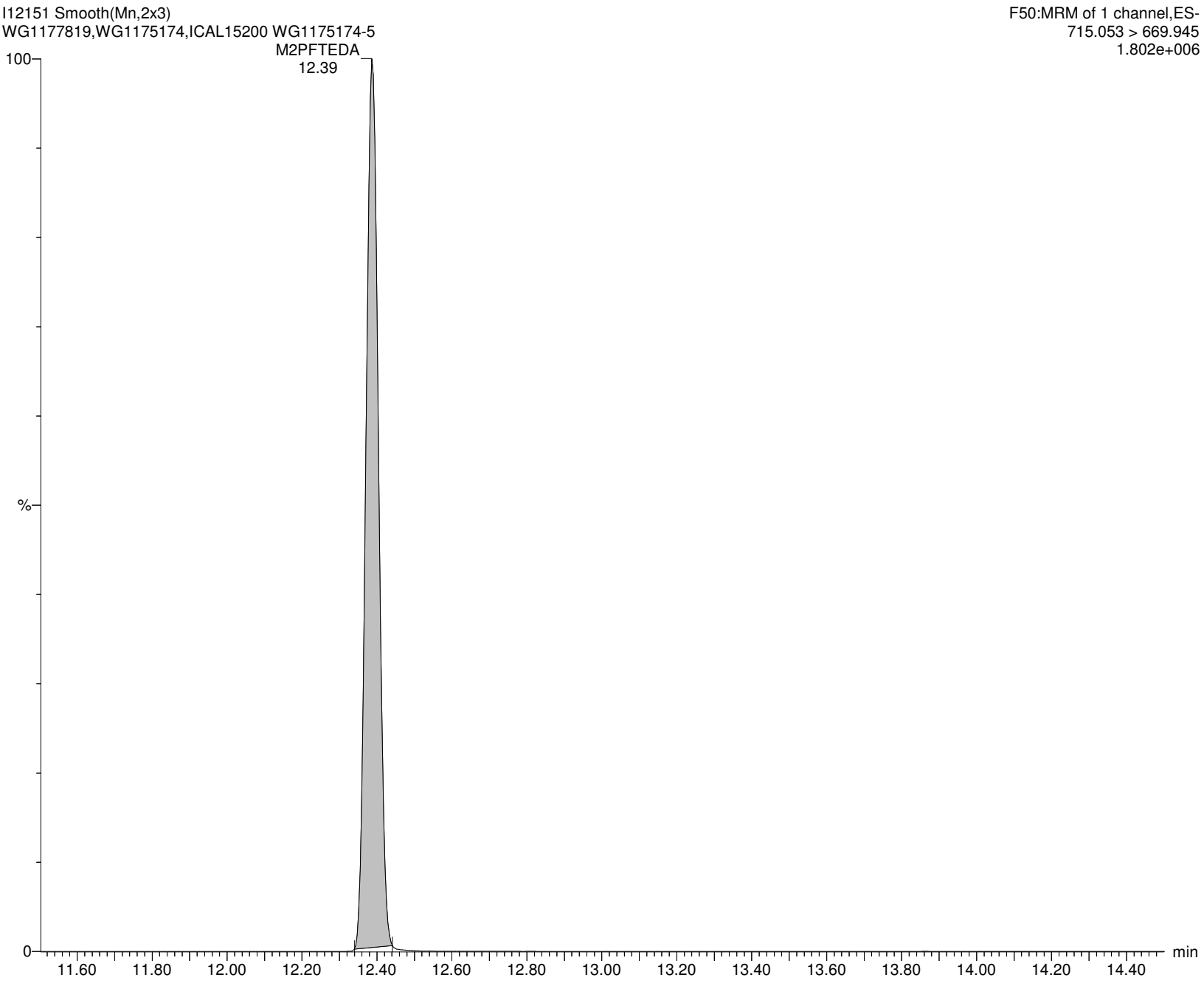

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:00 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181109_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1175174-7
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Date: 10-Nov-2018
Time: 07:58:12
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.16	212.926 > 169.111	39633		11.579		na	
2	M3PFBA	INT STD	2.15	215.926 > 172.122	40295		4.353		na	43.5
3	MPFBA	INT STD	2.15	216.926 > 172.137	39156		10.230		na	102.3
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	61713		11.721		na	
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	55863		11.310		na	113.1
6	PFBS	375-73-5	5.81	298.989 > 80.295	12532		13.401		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	10548		7.781		na	77.8
8	4:2FTS	757124-72-4	6.99	326.926 > 306.957	6318		11.124	1.94	YES	
9	M2-4:2FTS	INT STD	6.99	329.117 > 309.079	5776		6.870		na	68.7
10	PFHxA	307-24-4	7.06	312.989 > 269.028	83516		12.166	19.38	NO	
11	M5PFHxA	INT STD	7.06	317.989 > 273.045	70738		8.846		na	88.5
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	14046		10.329	2.01	NO	
13	PFHpA	375-85-9	8.34	362.926 > 319.014	103178		10.982	5.27	NO	
14	M4PFHpA	INT STD	8.34	366.926 > 321.979	95434		10.150		na	101.5
15	br-PFHxS	355-46-4	8.27	398.926 > 80.295	1751		1.369	1.96	NO	
16	L-PFHxS	355-46-4	8.50	398.926 > 80.295	11365		10.255	1.51	NO	
17	PFHxS	355-46-4		398.926 > 80.295	13116		11.624		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	7860		10.439		na	104.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.28	412.989 > 368.9	102237		11.192	8.99	NO	
21	M2PFOA	INT STD	9.28	415.032 > 369.968	110994		5.878		na	58.8
22	PFOA	335-67-1		412.989 > 368.9	102237		11.192		na	
23	M8PFOA	INT STD	9.28	420.989 > 375.979	93633		10.461		na	104.6
24	6:2FTS	27619-97-2	9.23	426.989 > 406.921	4983		11.938		na	
25	M2-6:2FTS	INT STD	9.23	428.989 > 408.917	4299		6.160		na	61.6
26	PFHpS	375-92-8	9.37	448.926 > 80.257	7199		11.482	0.94	YES	
27	PFNA	375-95-1	10.02	462.989 > 418.931	81275		11.228	4.35	NO	
28	M9PFNA	INT STD	10.02	472.053 > 426.947	86671		9.708		na	97.1
29	br-PFOS	1763-23-1	9.82	498.989 > 80.294	3415		2.301	4.31	YES	
30	L-PFOS	1763-23-1	10.07	498.989 > 80.294	7703		7.283	1.73	YES	
31	PFOS	1763-23-1		498.989 > 80.294	11118		9.584		na	
32	M4PFOS	INT STD	10.07	503.032 > 80.306	10874		6.713		na	67.1
33	M8PFOS	INT STD	10.07	507.053 > 80.294	10126		9.986		na	99.9
34	PFDA	335-76-2	10.65	513.053 > 468.906	80842		12.072	6.01	NO	
35	M2PFDA	INT STD	10.65	515.053 > 469.934	86081		5.790		na	57.9
36	M6PFDA	INT STD	10.65	519.053 > 473.931	75491		9.713		na	97.1
37	8:2FTS	39108-34-4	10.64	526.989 > 506.946	3620		13.028		na	
38	M2-8:2FTS	INT STD	10.64	529.053 > 508.945	2331		5.688		na	56.9
39	PFNS	68259-12-1	10.67	548.989 > 80.249	8988		12.693	1.31	NO	

all concentration units in (ng/mL)

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ID: WG1175174-7
Name: I12156
Date: 10-Nov-2018
Time: 07:58:12
Description: WG1177819,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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MS Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	5605		6.690		na	66.9
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	7154		12.688		na	
42	PFUnA	2058-94-8	11.19	562.989 > 518.903	75048		10.972	7.43	NO	
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	68841		10.582		na	105.8
44	PFDS	335-77-3	11.20	598.926 > 80.314	7330		12.093	1.13	NO	
45	FOSA	754-91-6	11.10	497.989 > 78.245	6126		10.340		na	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	6058		2.185		na	21.8
47	d5-NEtFOSAA	INT STD	11.32	589.117 > 418.929	5477		6.777		na	67.8
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	5739		10.247	3.11	NO	
49	PFDoA	307-55-1	11.66	612.989 > 568.967	71744		10.984	12.85	NO	
50	MPFDOA	INT STD	11.66	614.989 > 569.92	70044		9.583		na	95.8
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	63149		11.497	12.07	NO	
52	PFTA	376-06-7	12.39	713.053 > 668.976	57518		12.485	9.73	NO	
53	M2PFTEDA	INT STD	12.39	715.053 > 669.945	54870		10.135		na	101.3

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Calibration: C:\MassLynx\Data\2018\181109_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

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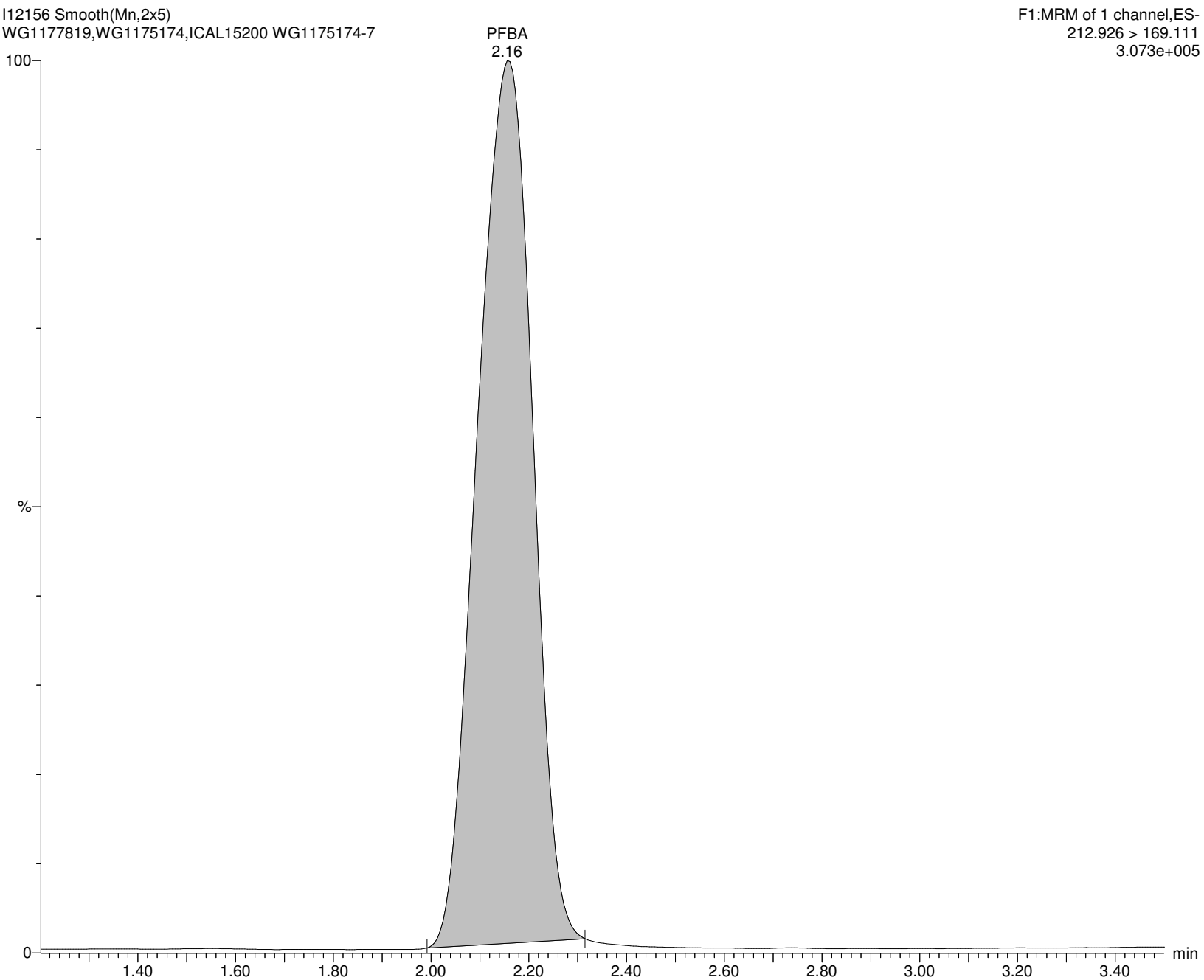

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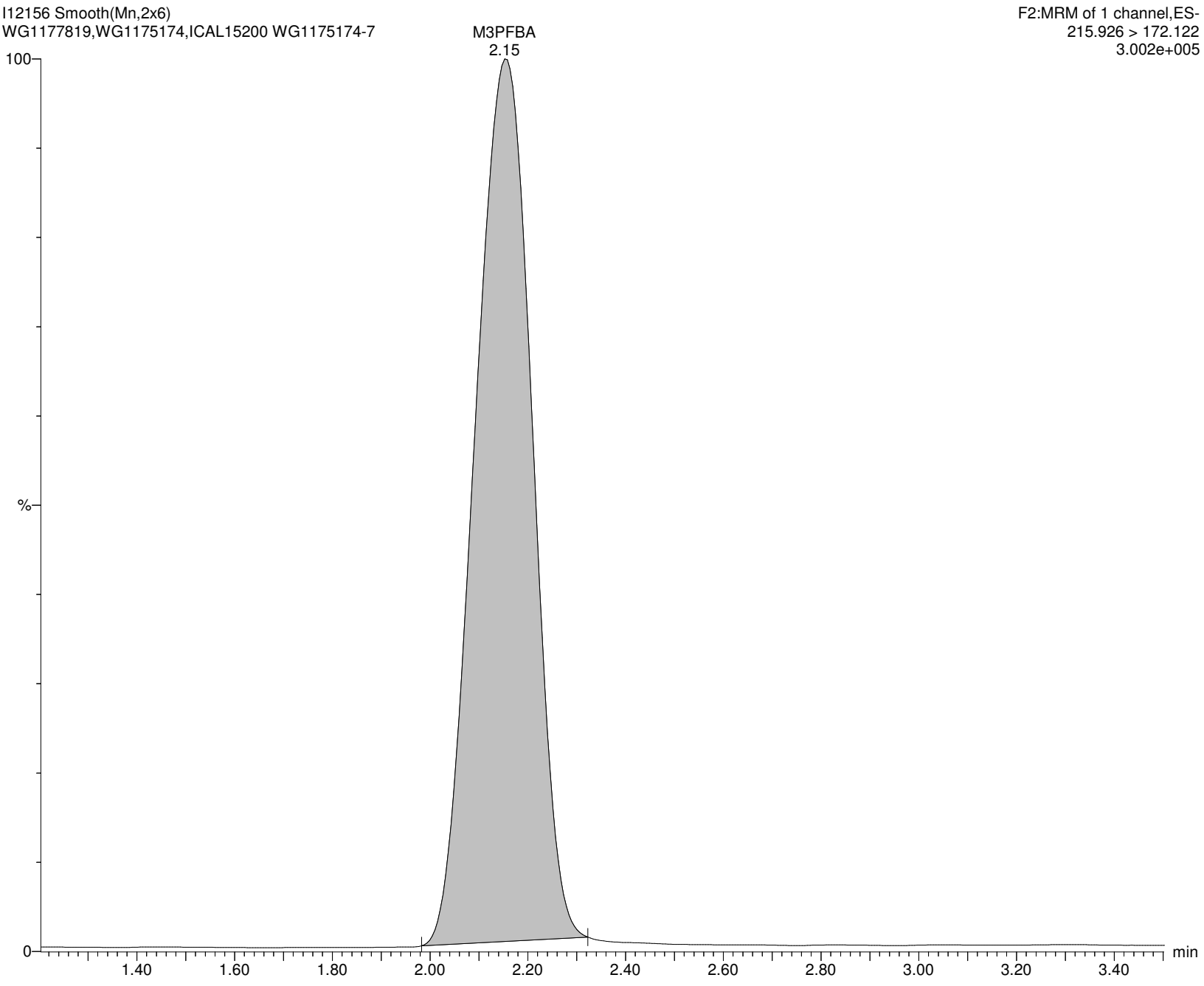

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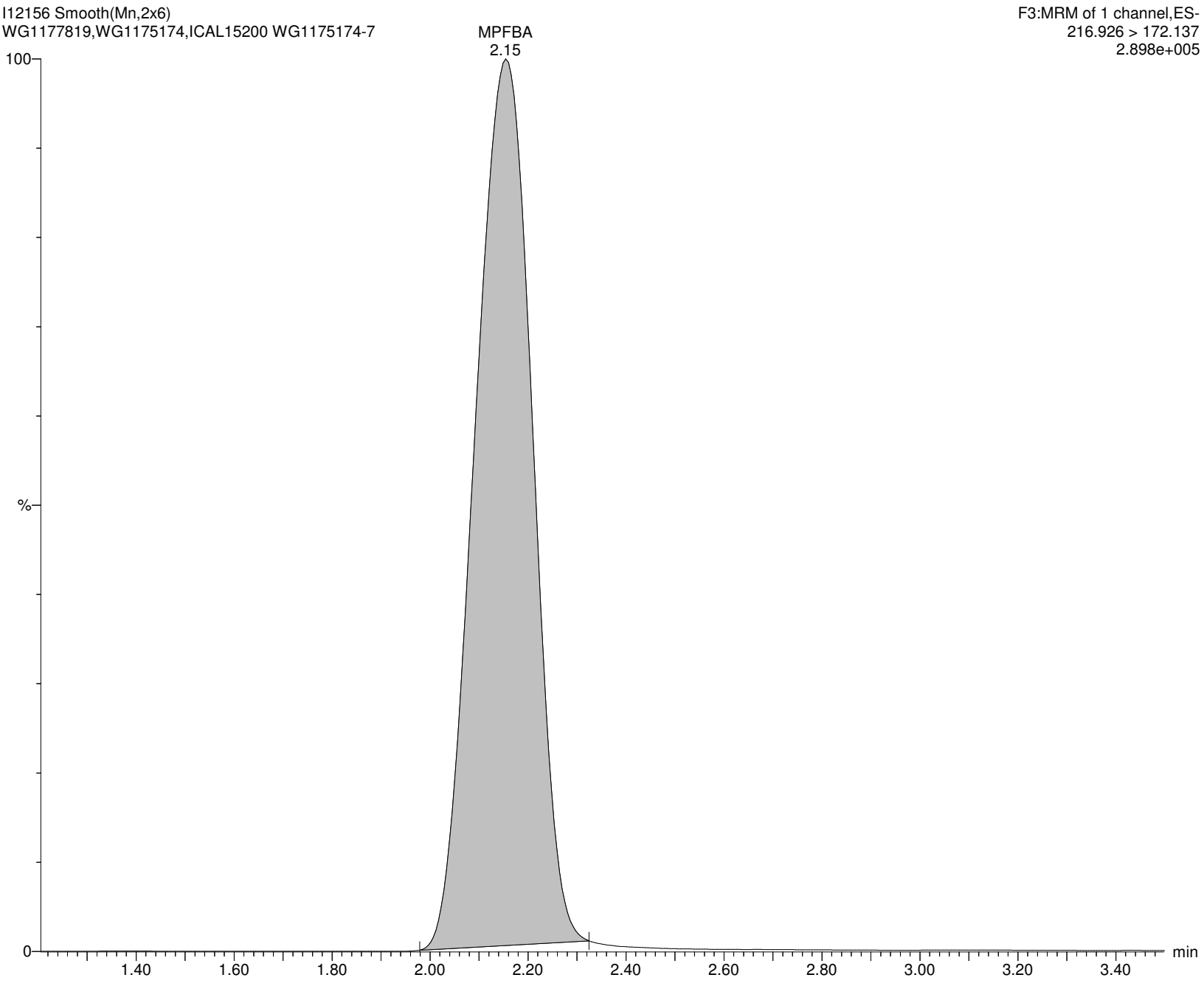

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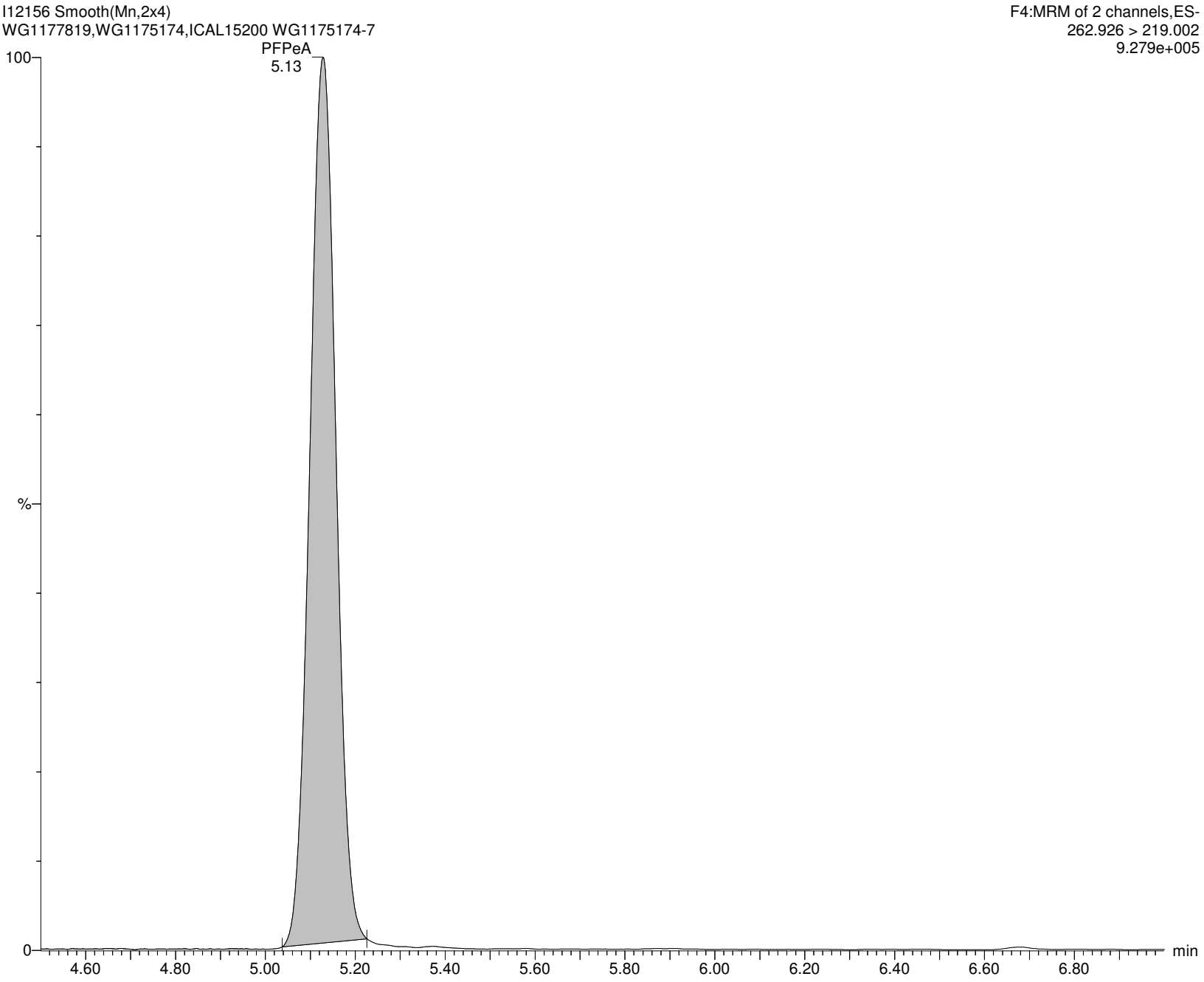

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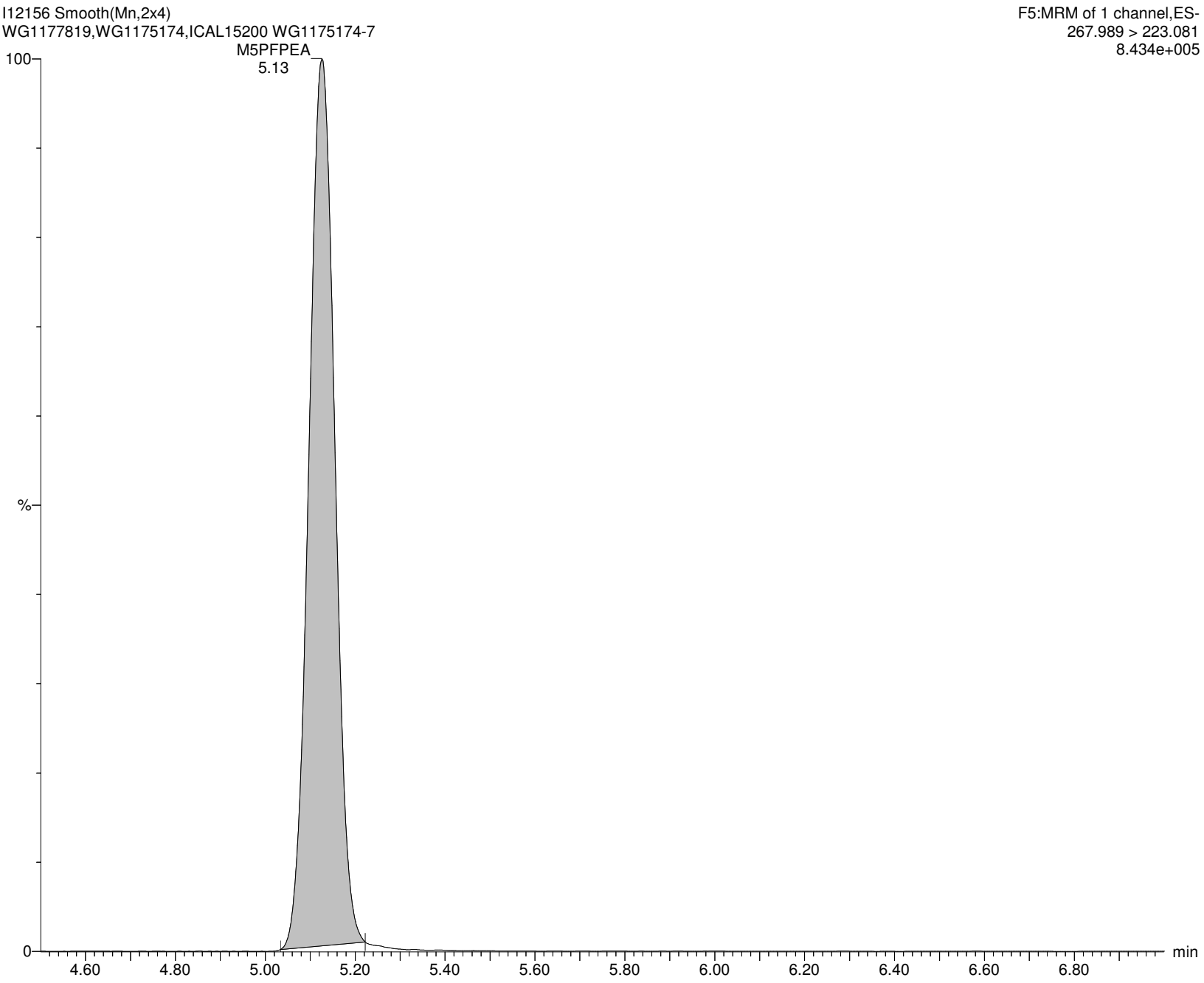

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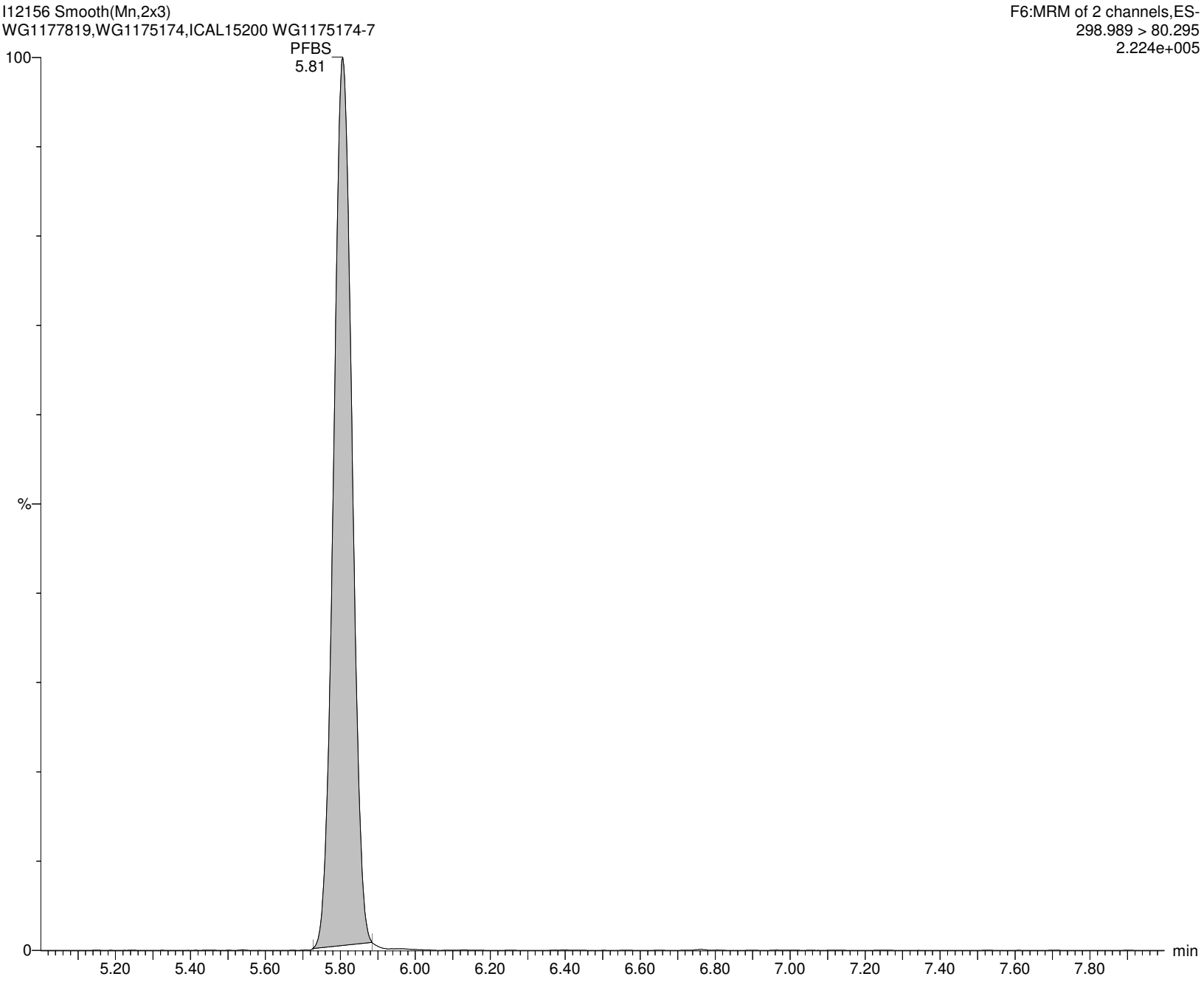

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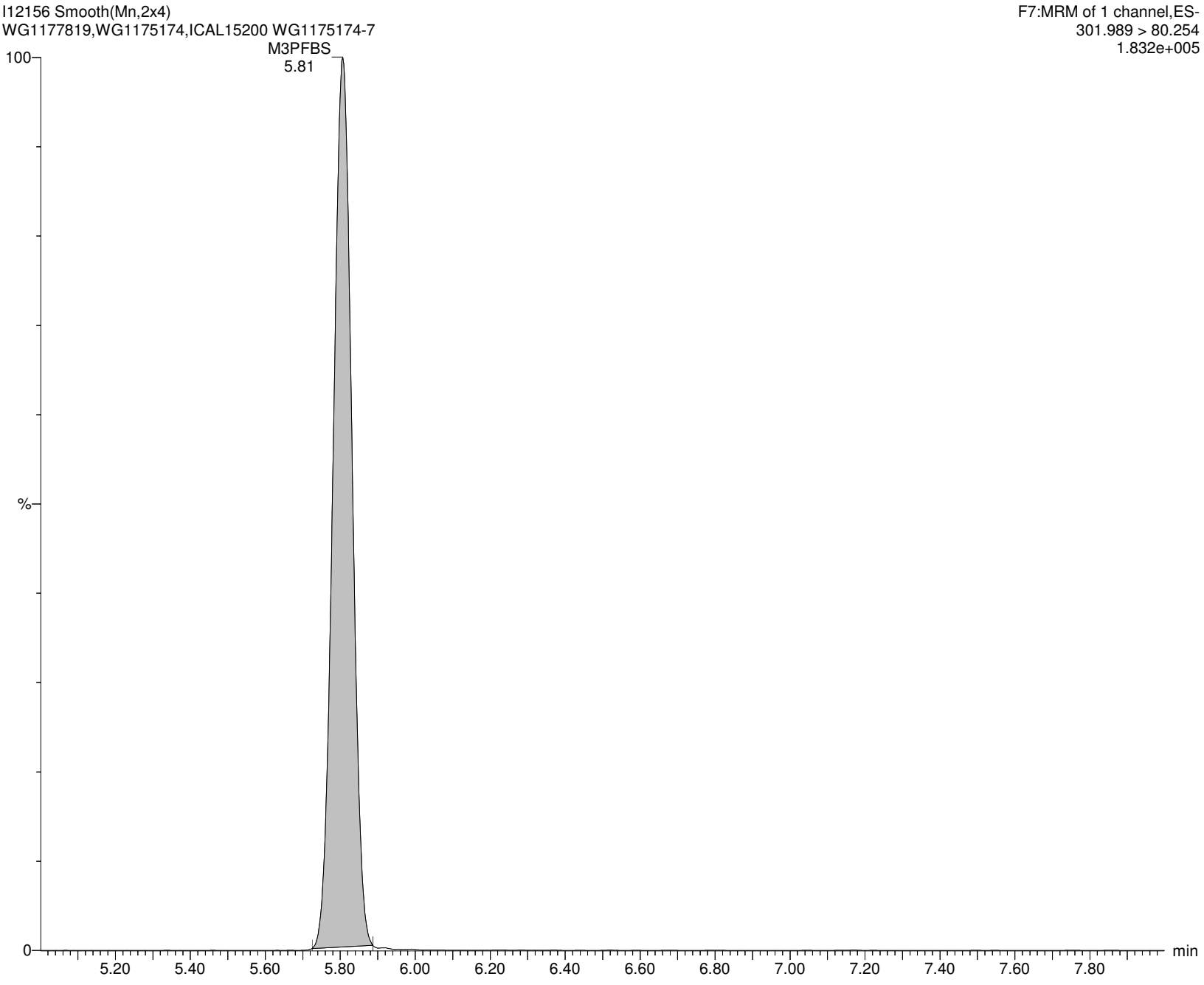

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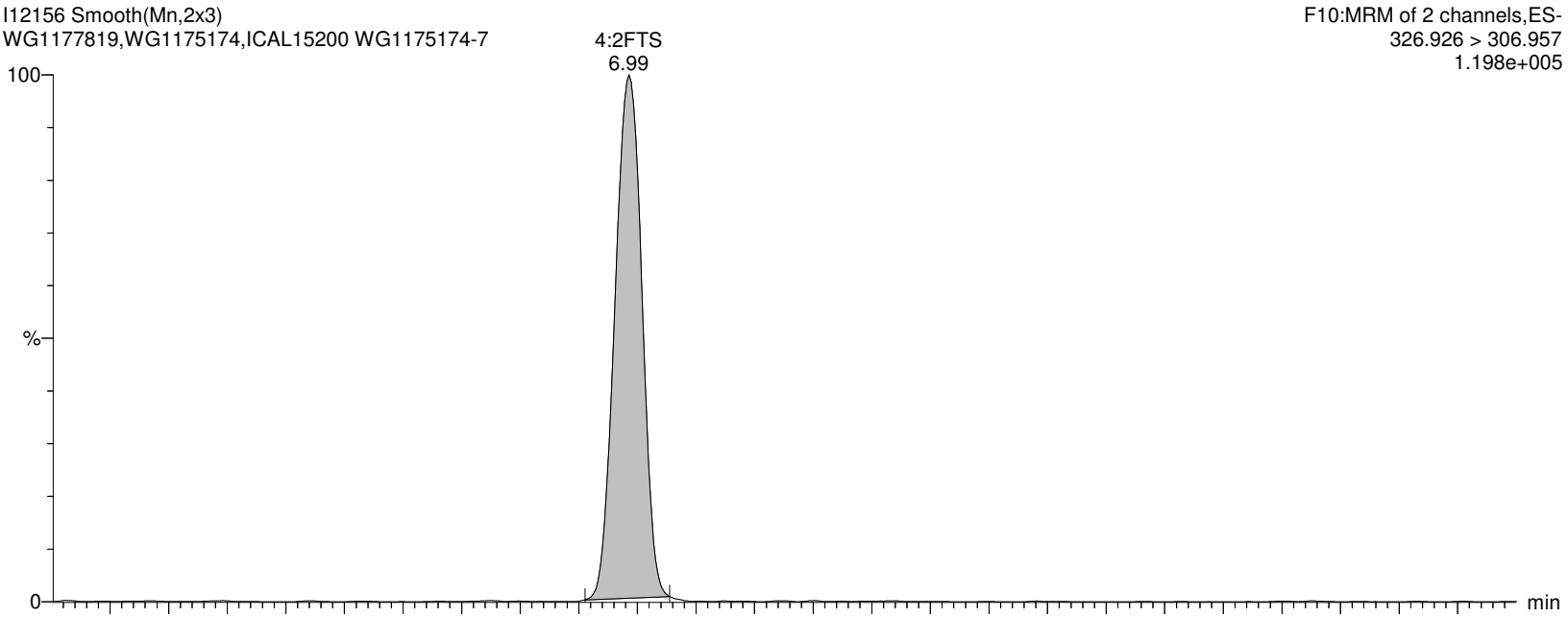
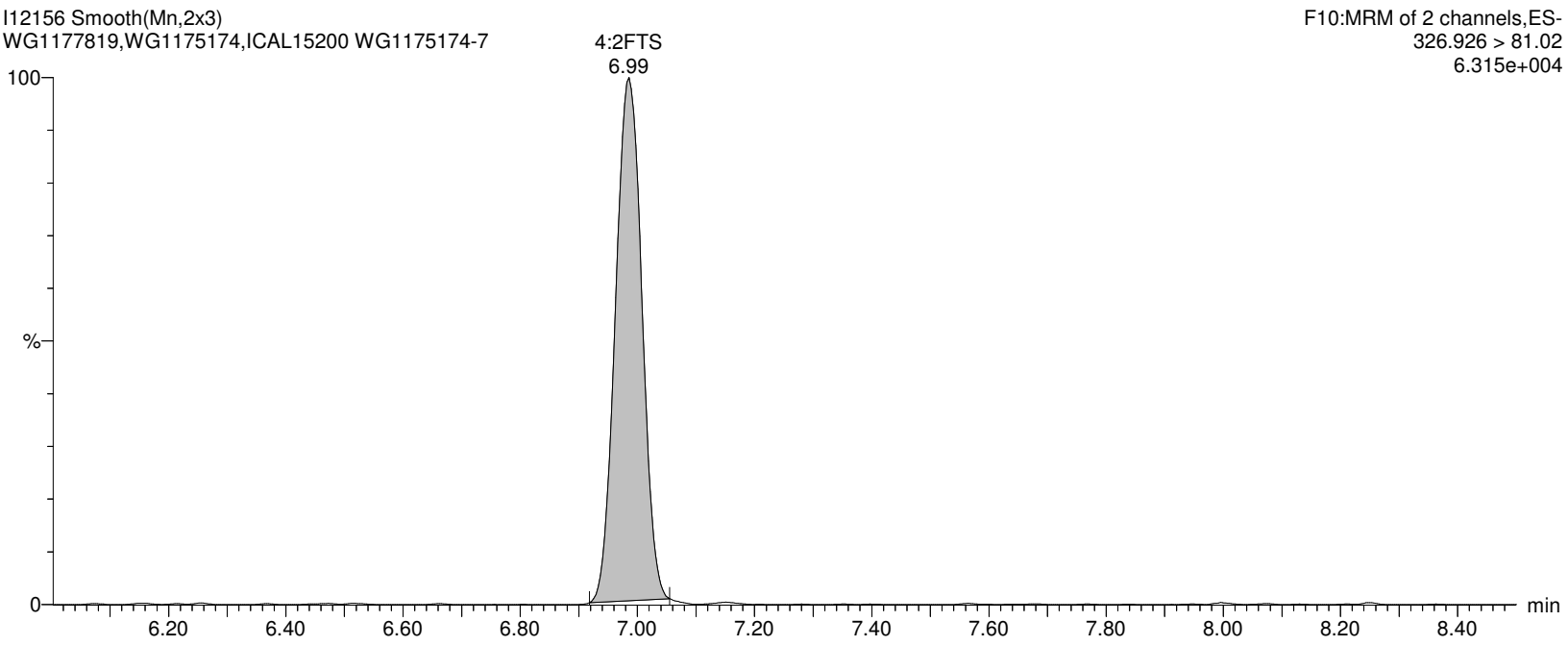
4:2FTS





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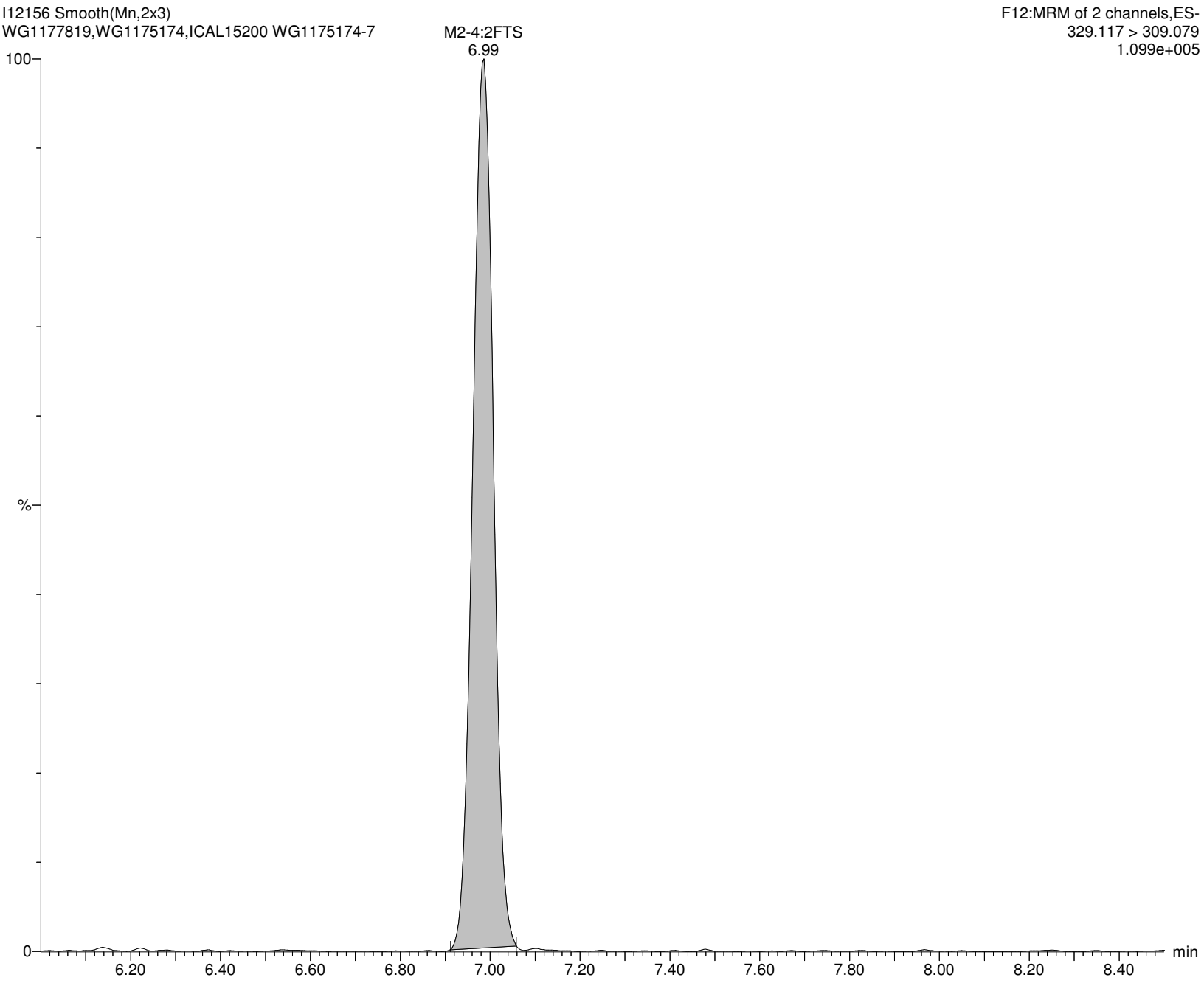
M2-4:2FTS



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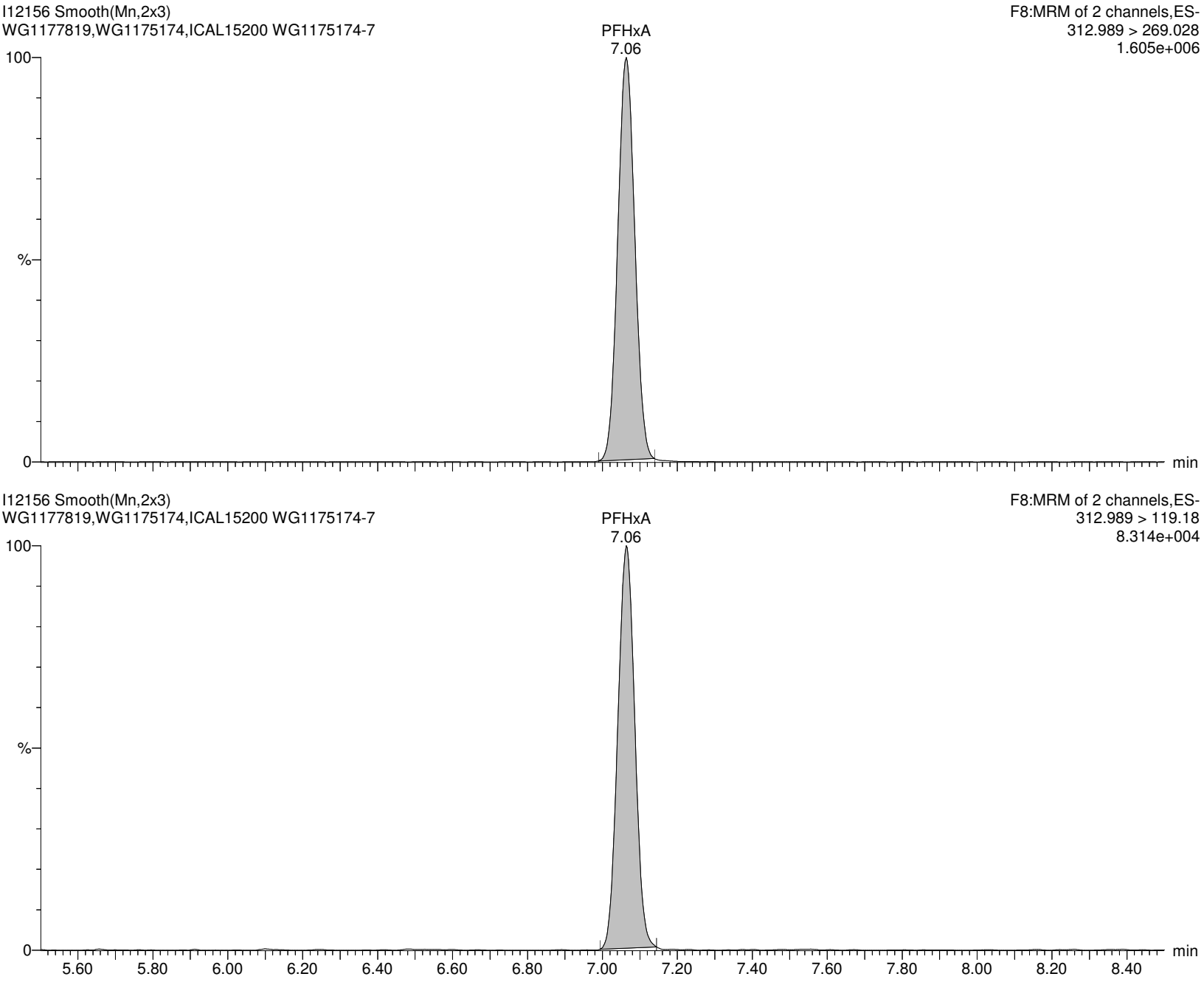
PFHxA



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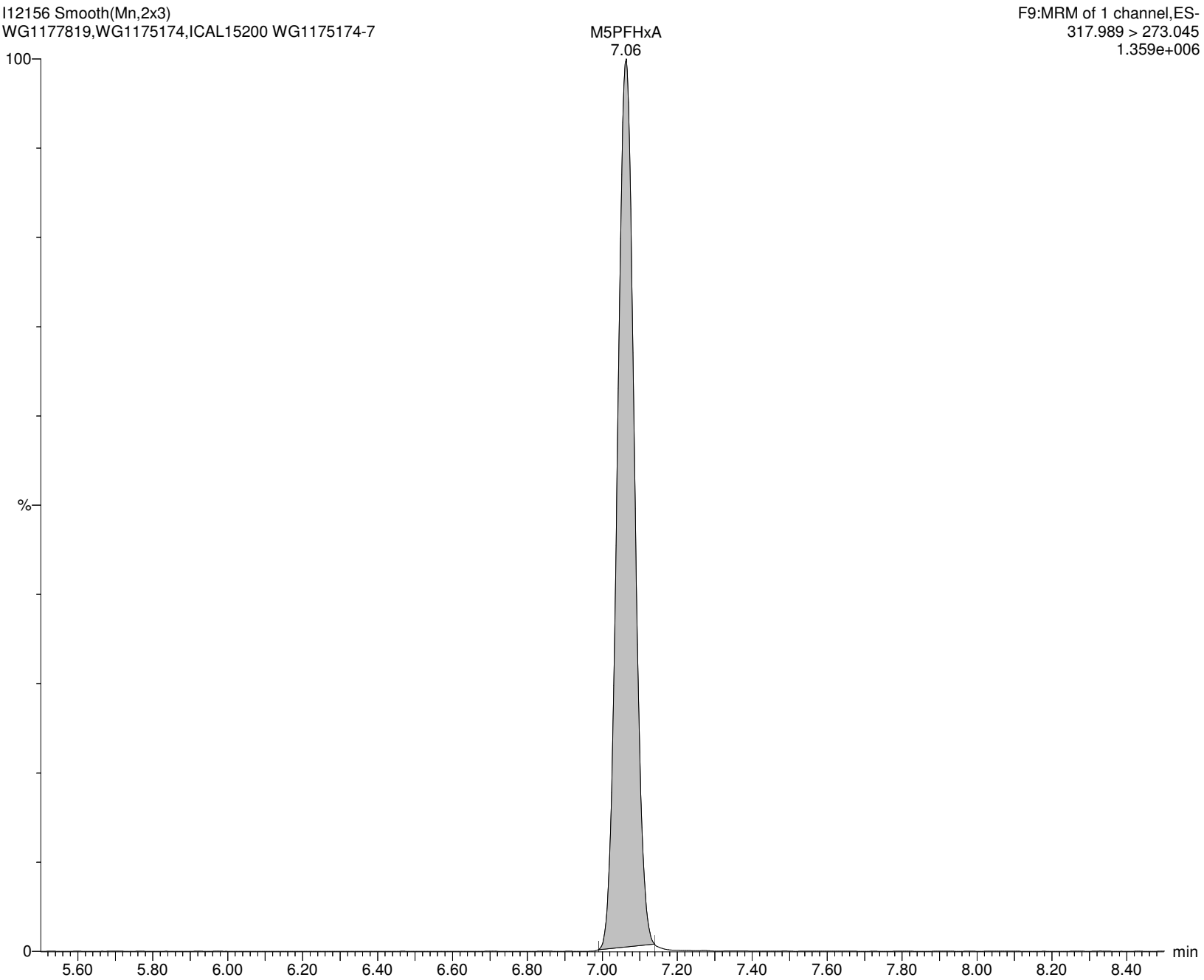
M5PFHxA



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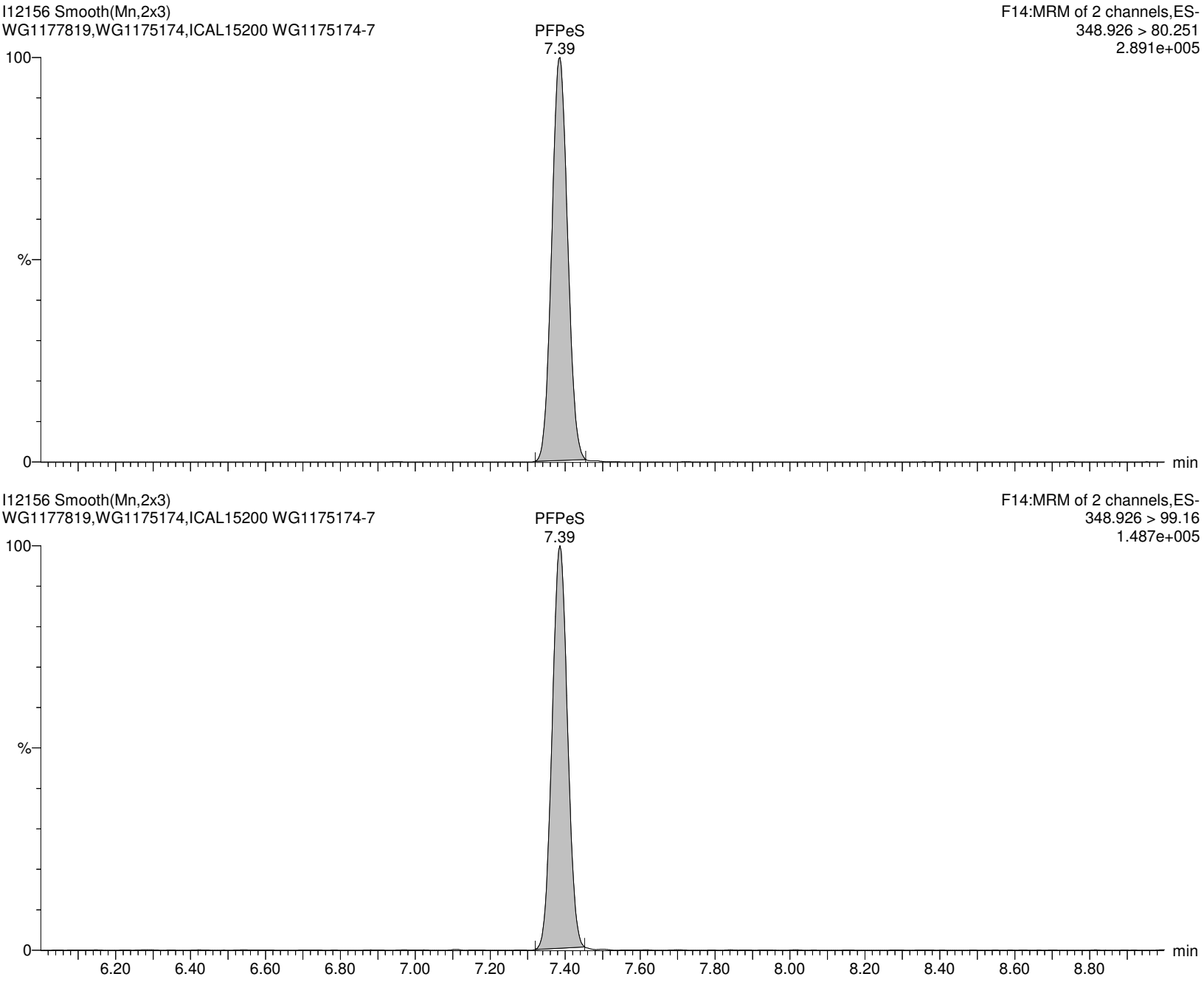
PFPeS



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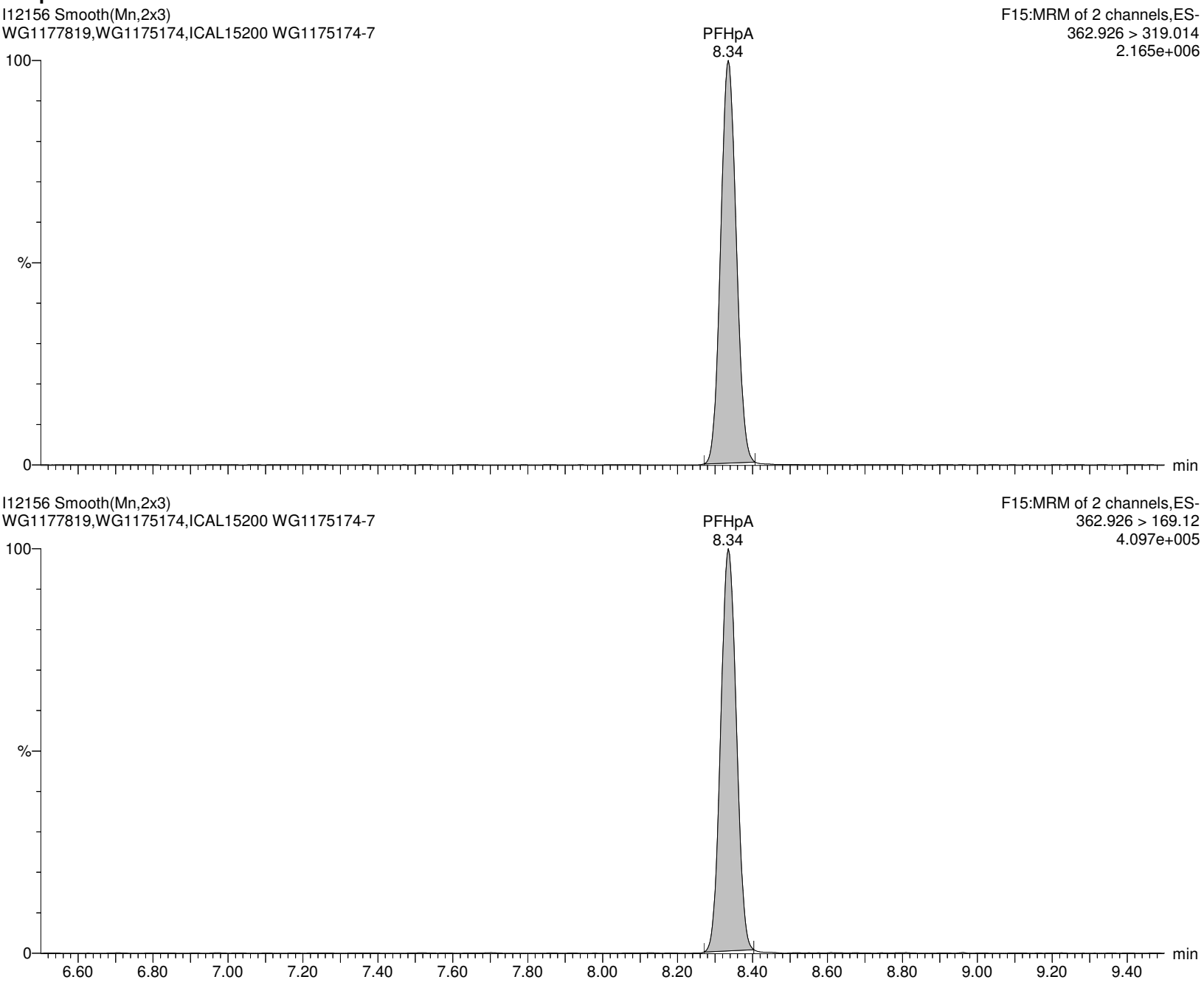

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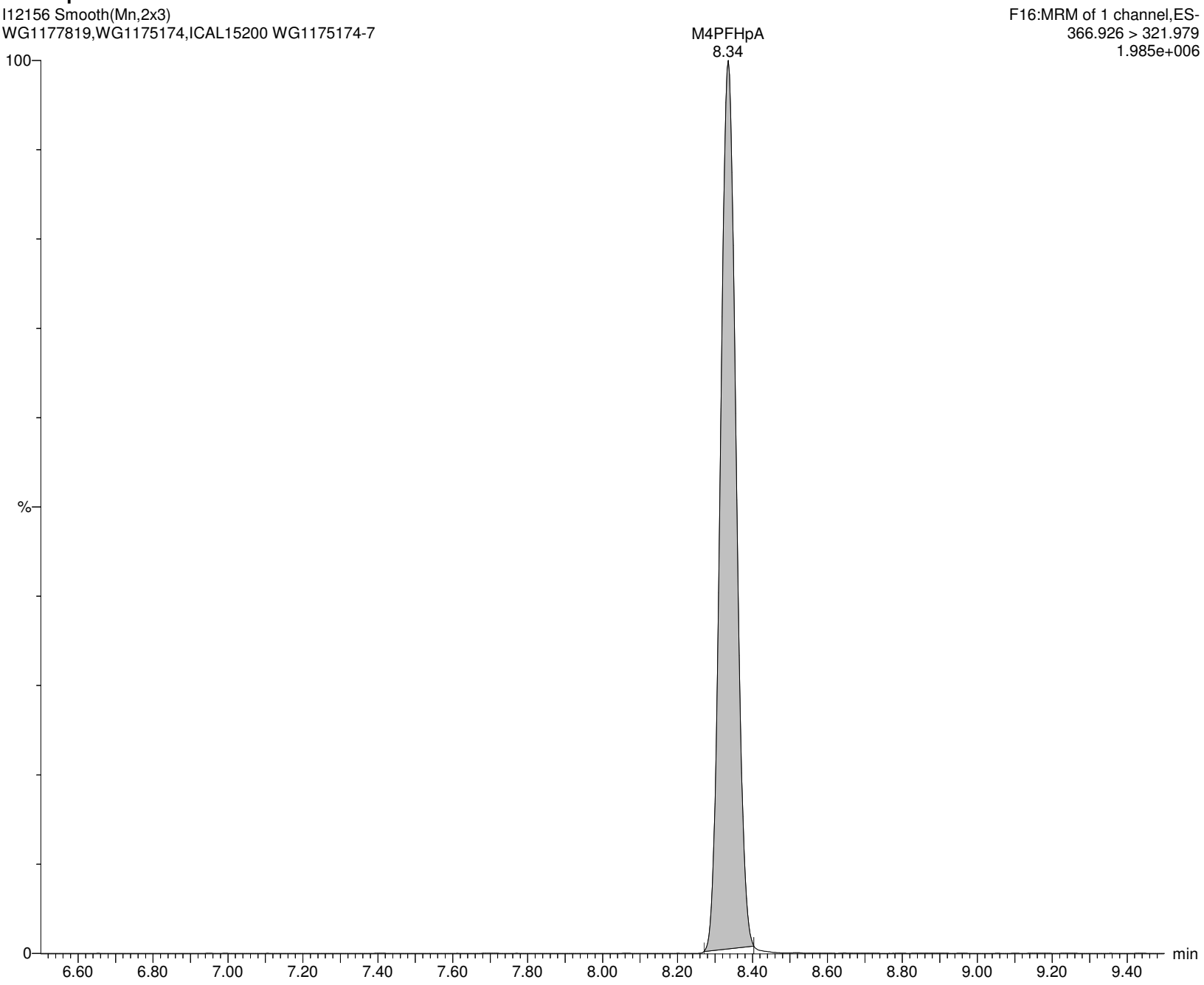

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Name: I12156
ID: WG1175174-7
Date: 10-Nov-2018
Time: 07:58:12
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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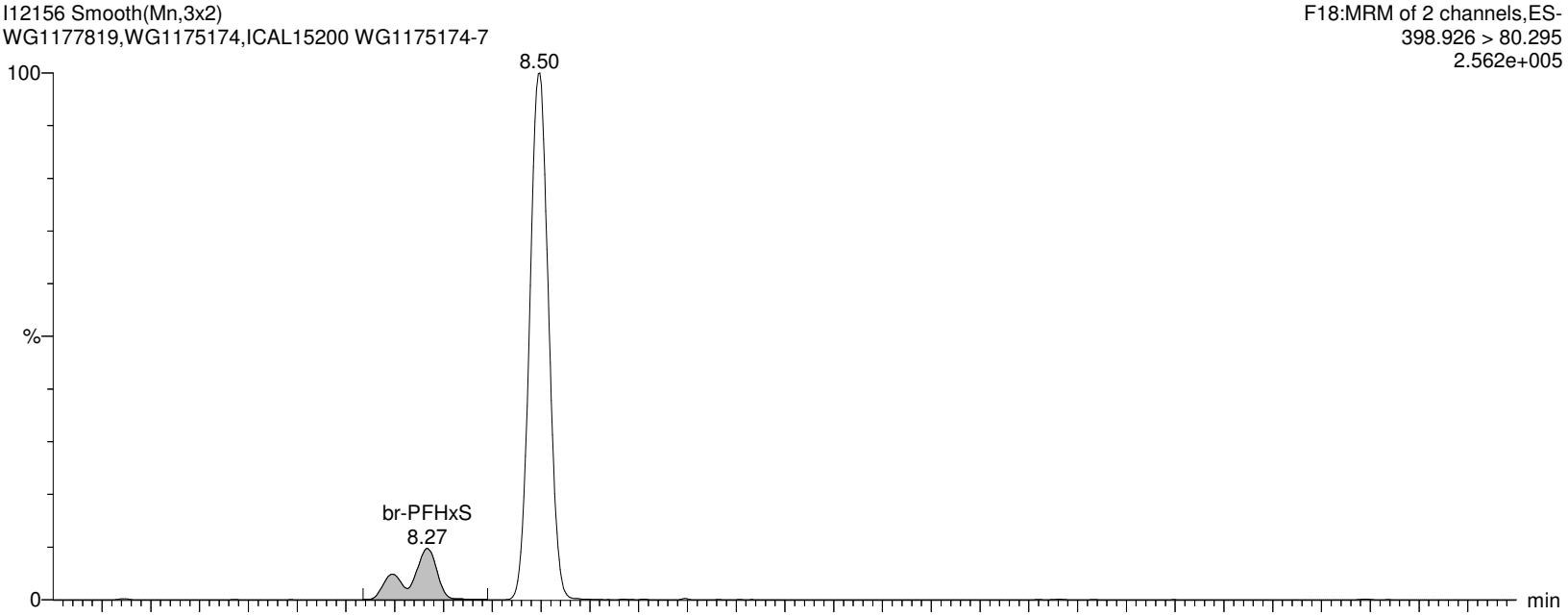

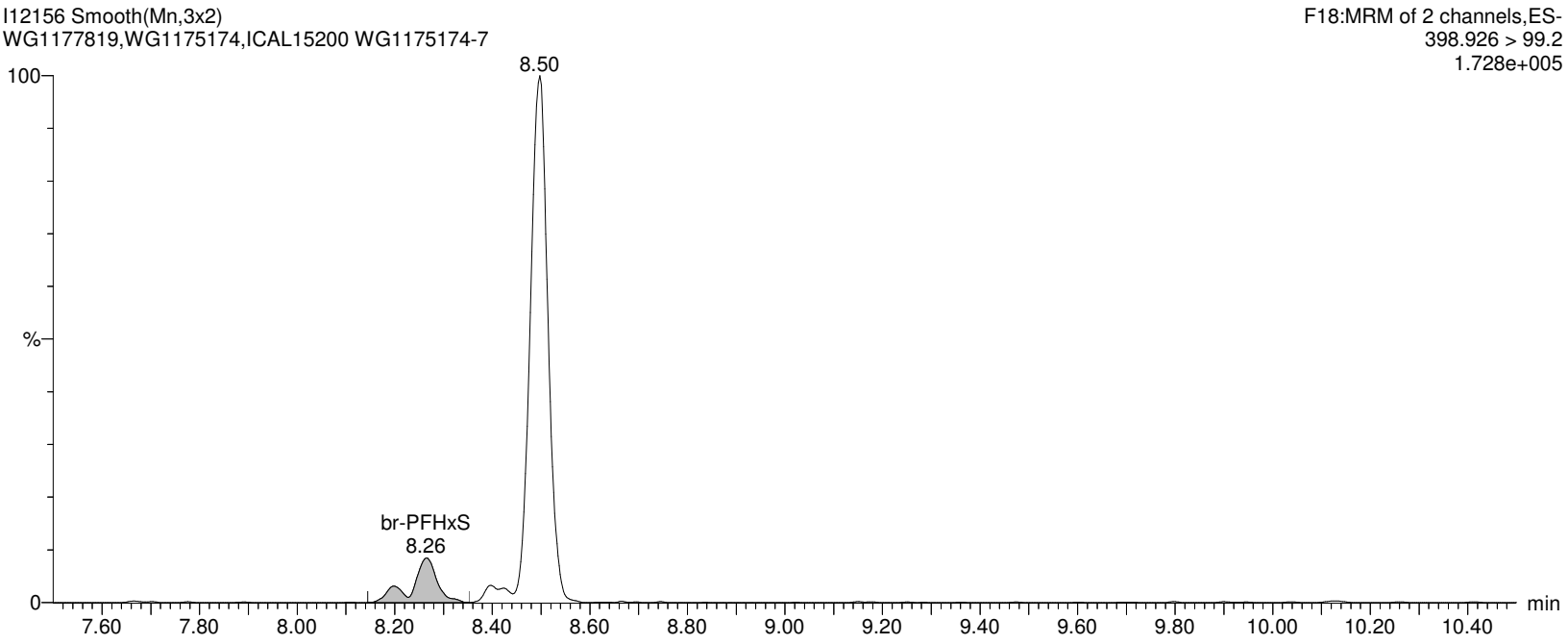

all concentration units in (ng/mL)

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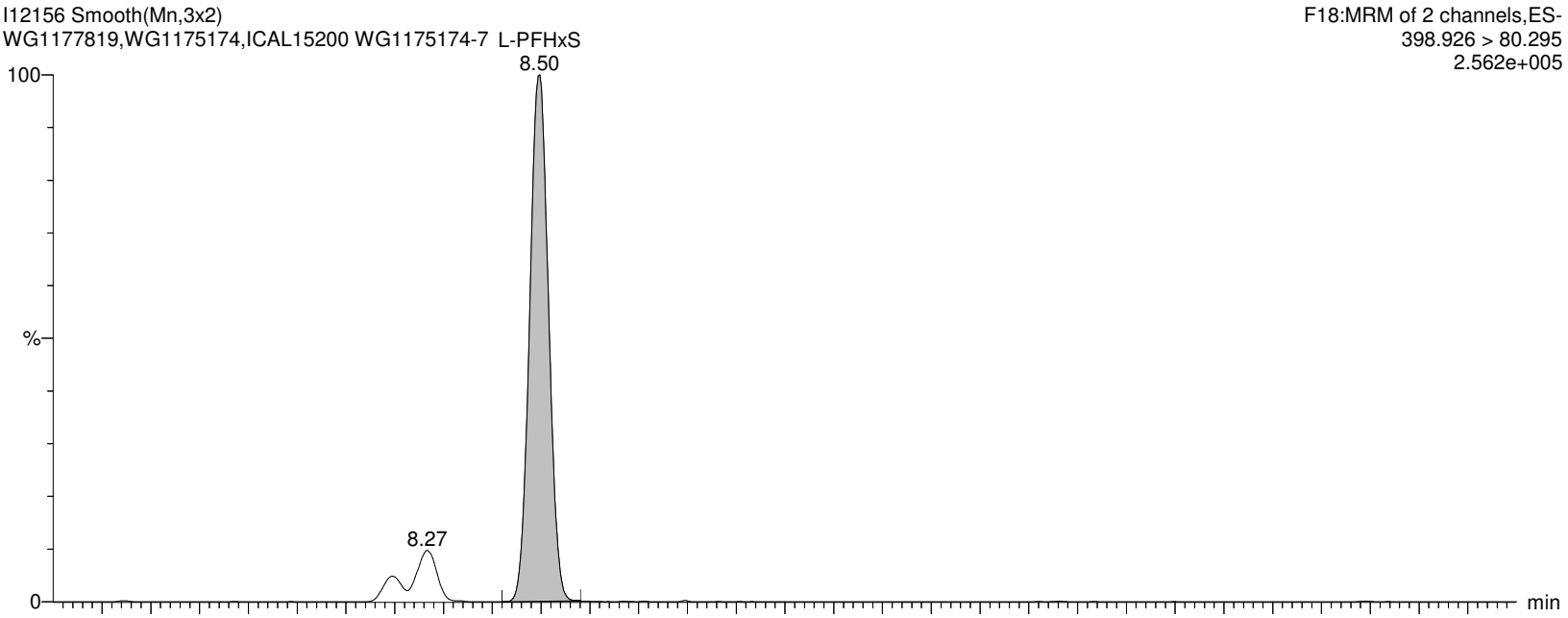

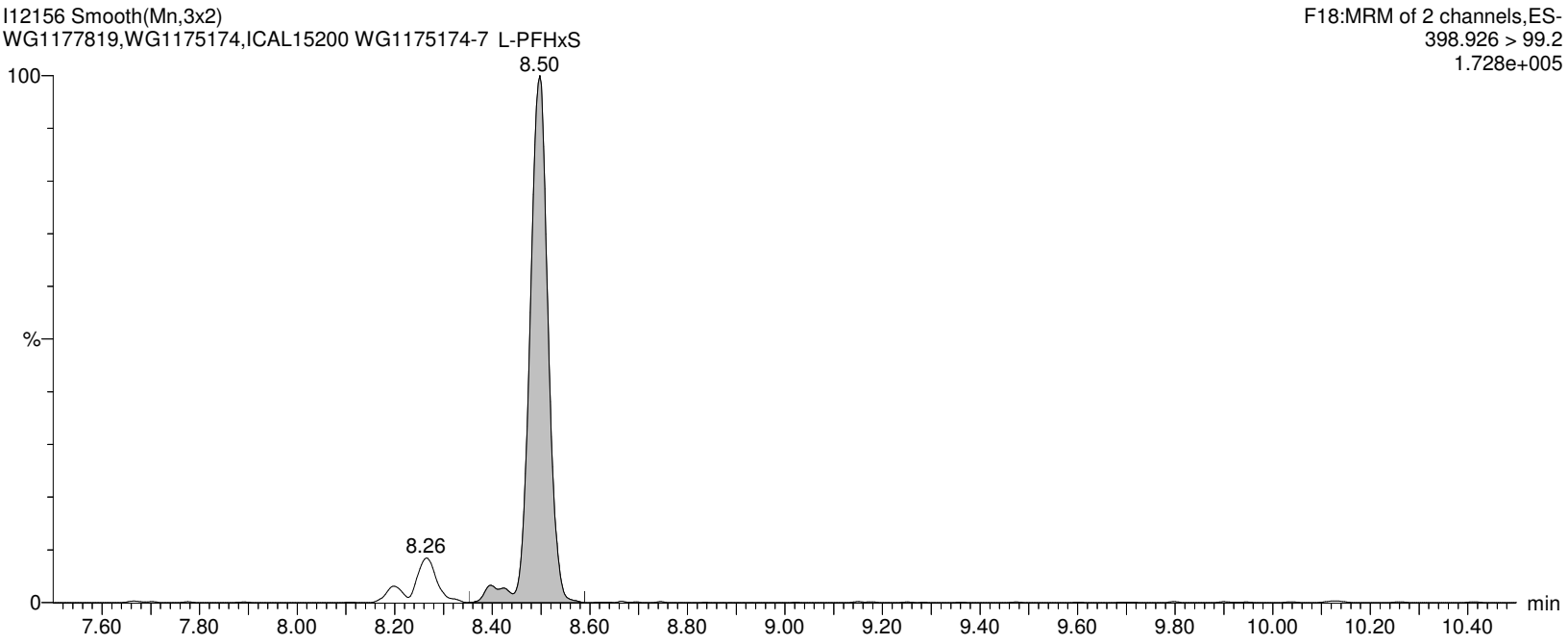

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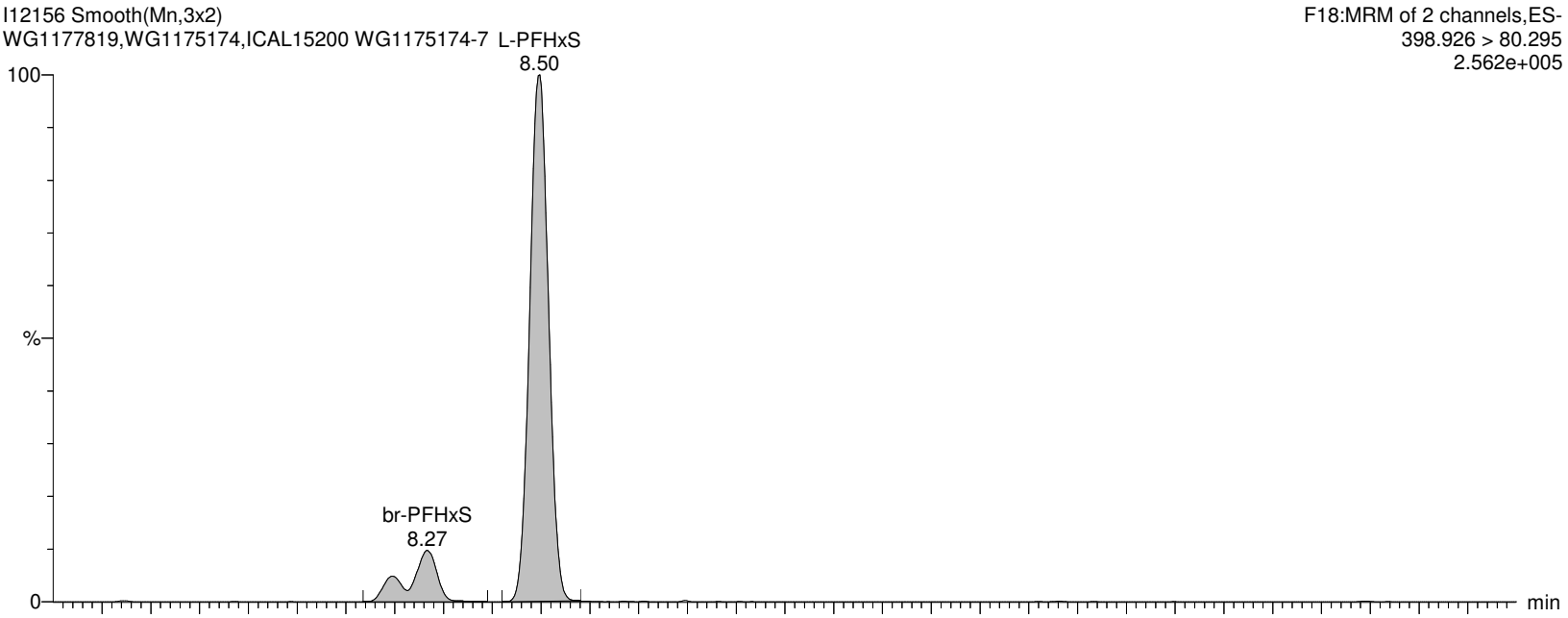

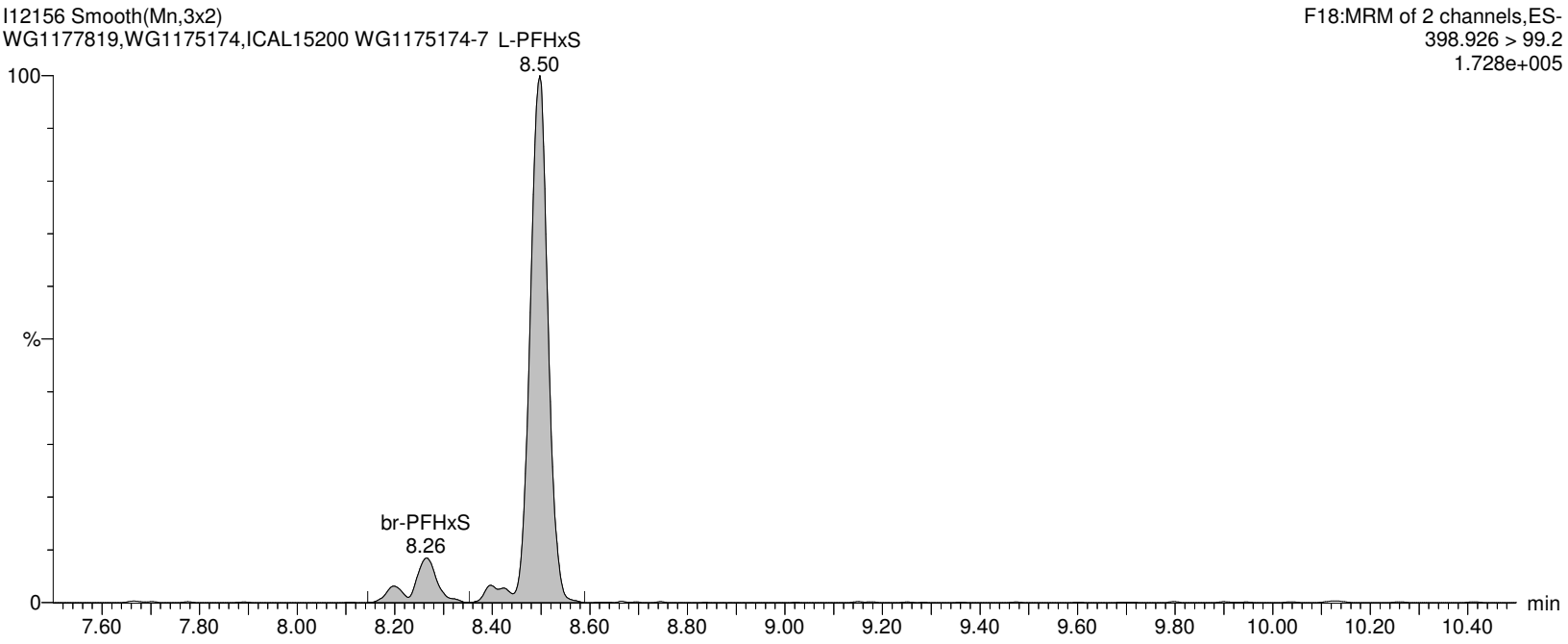

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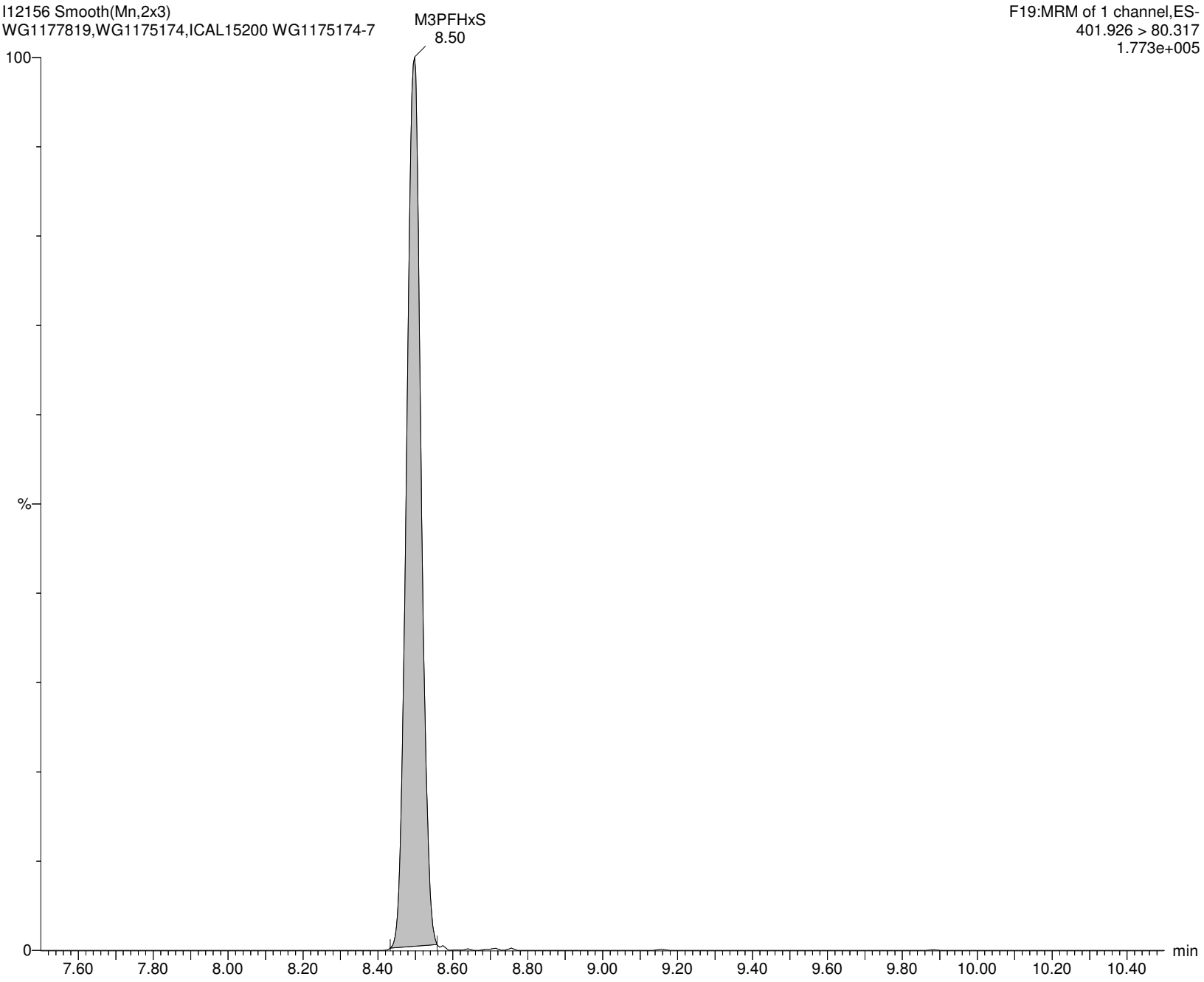

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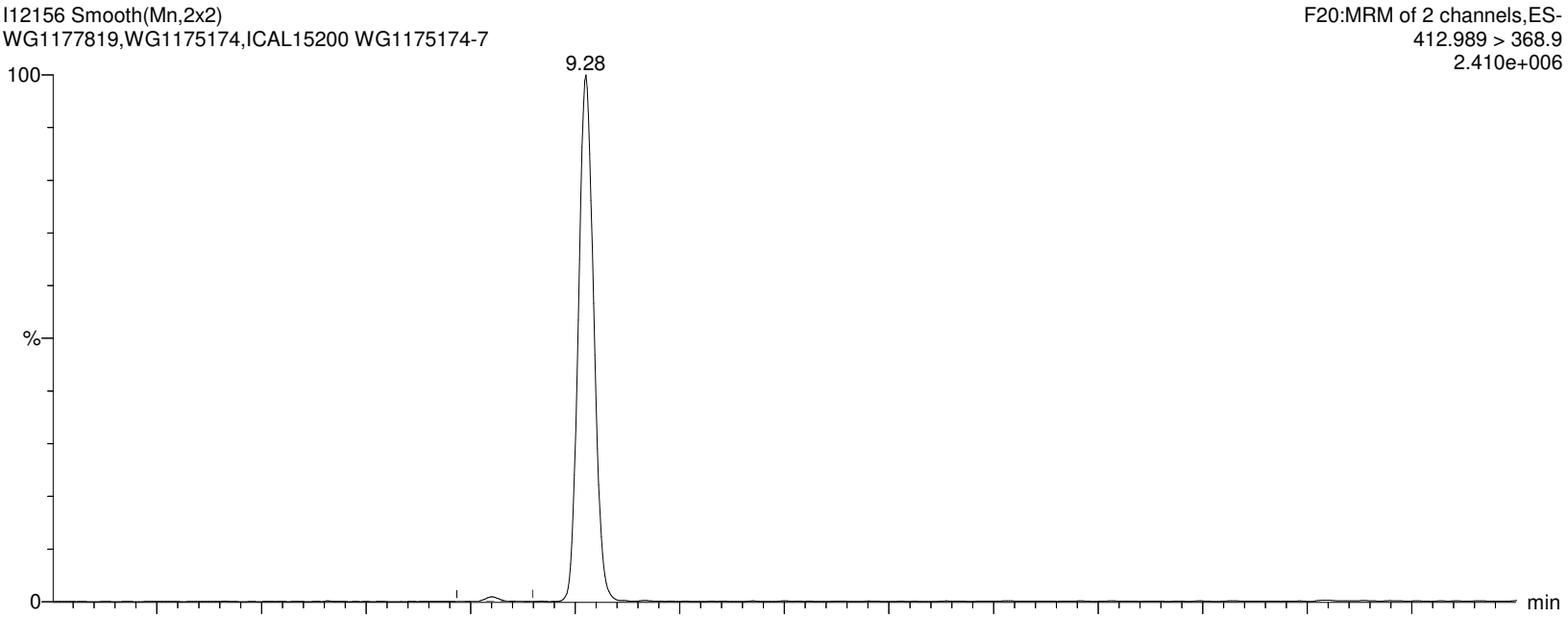

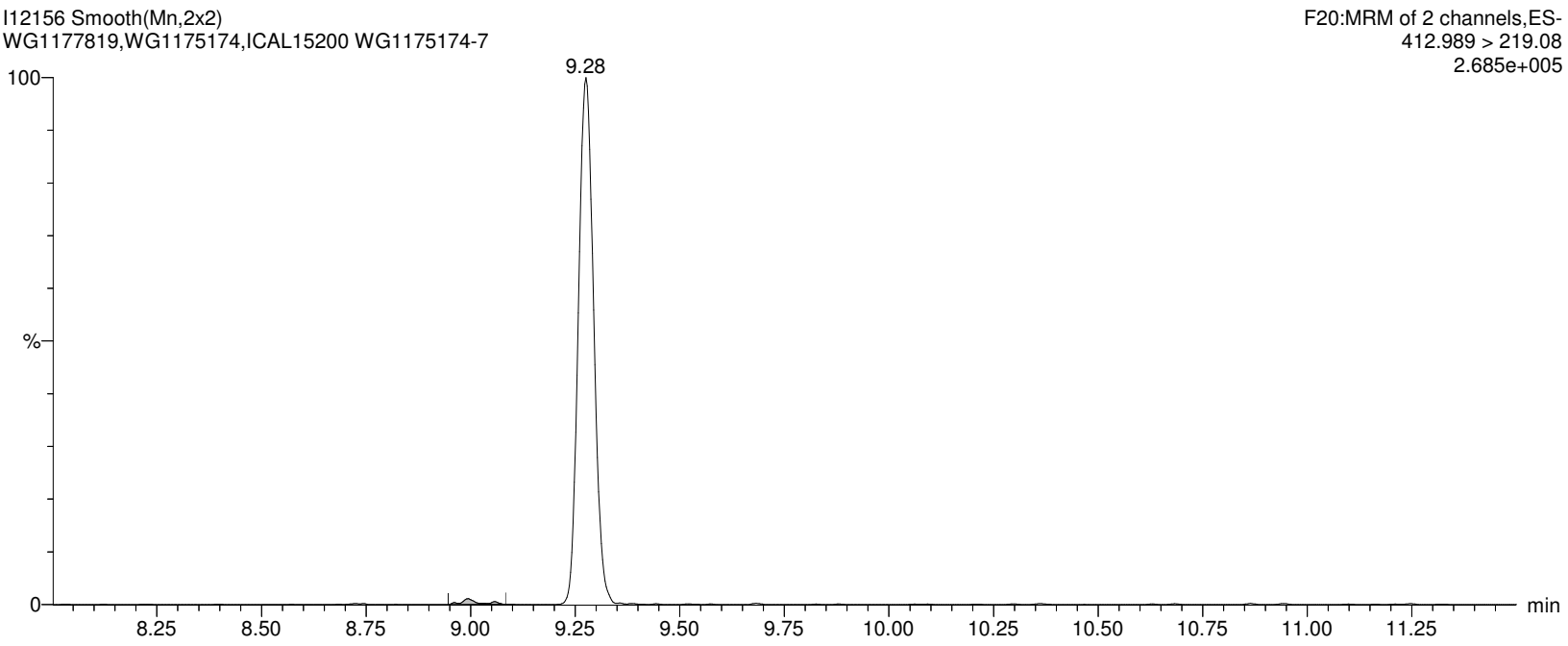

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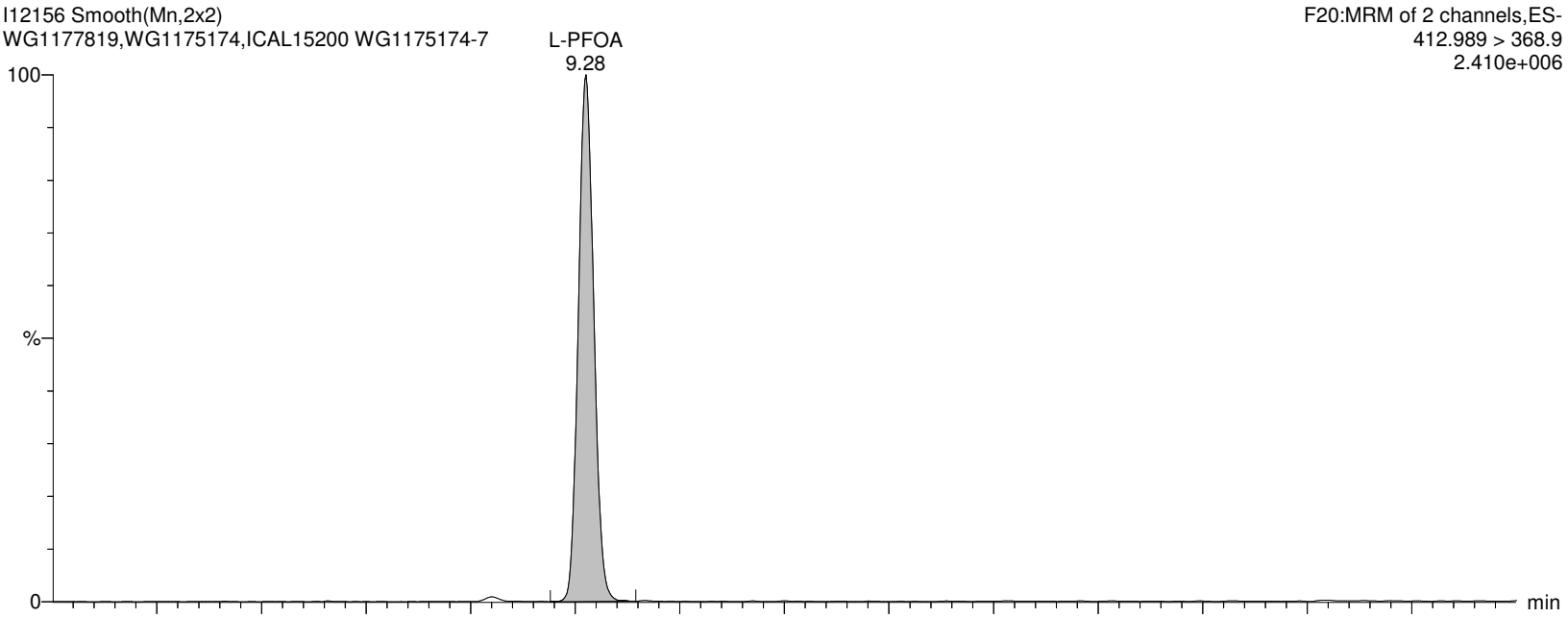

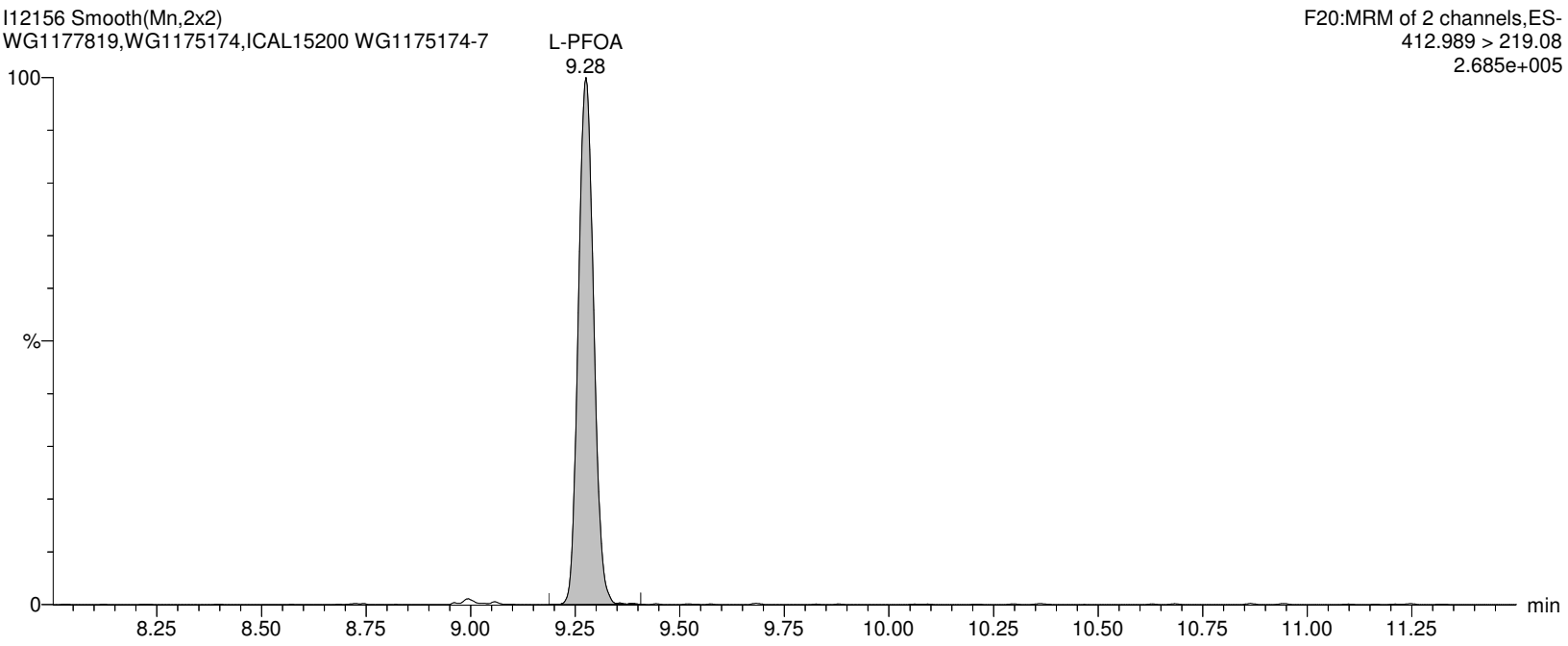

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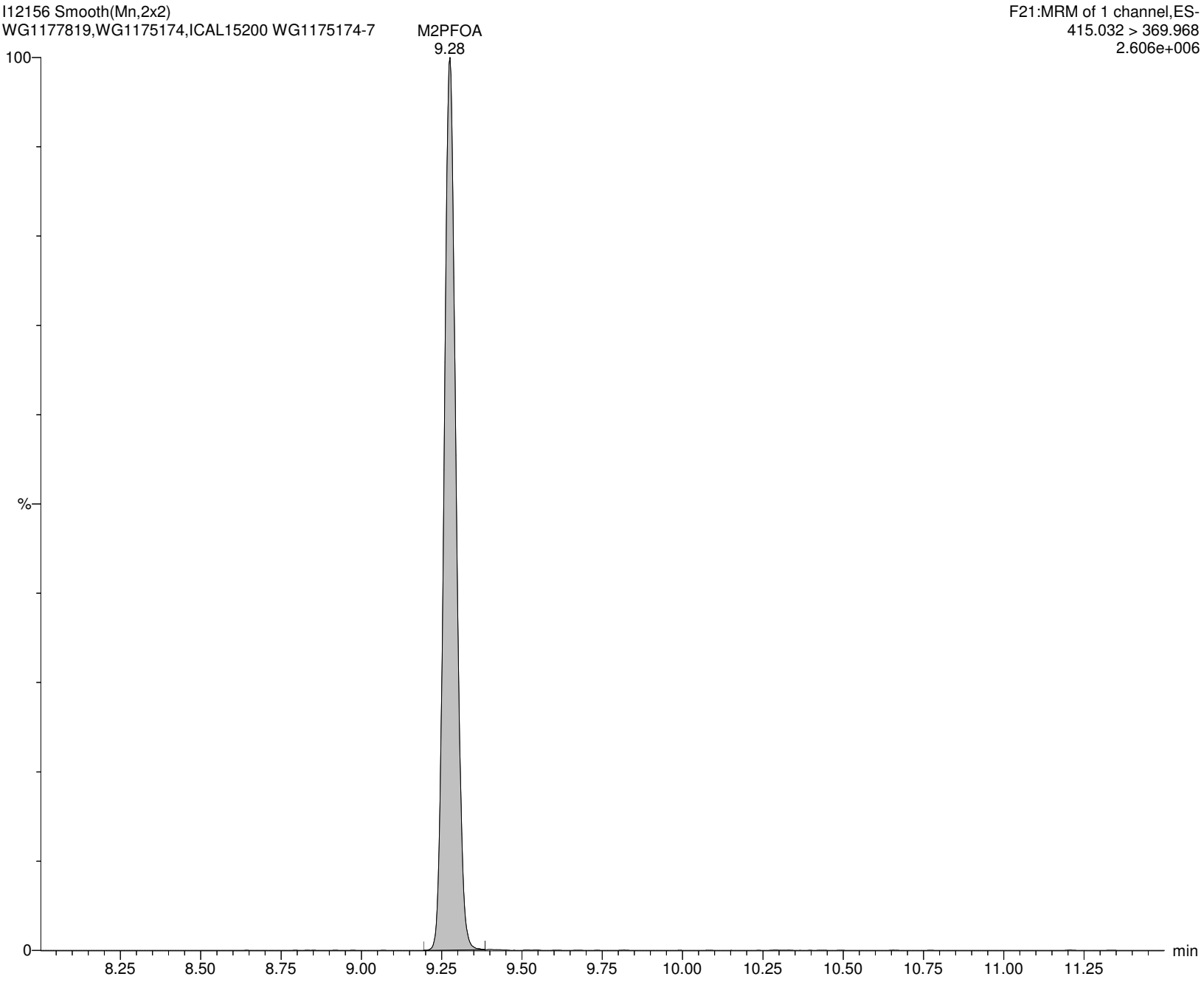

all concentration units in (ng/mL)

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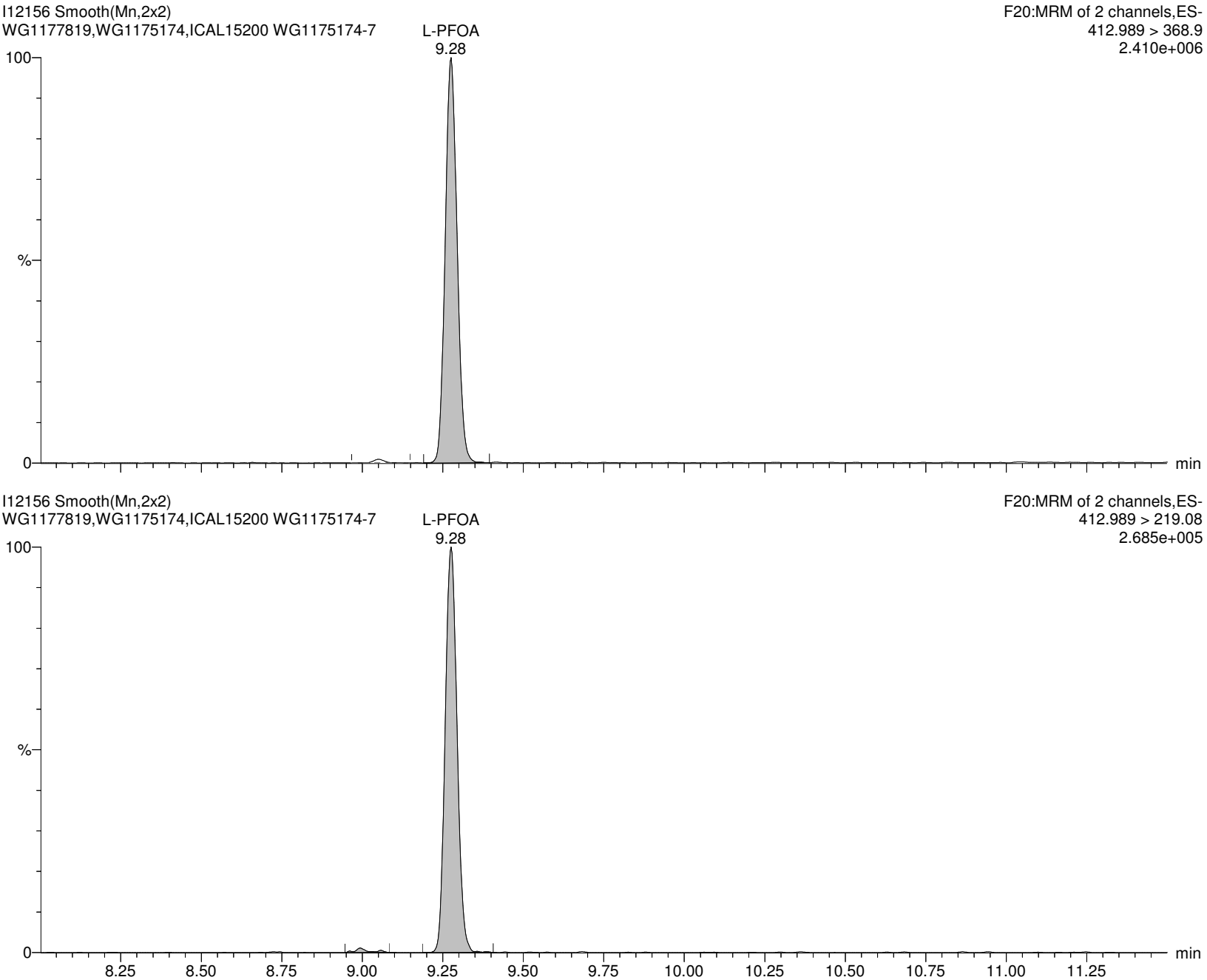

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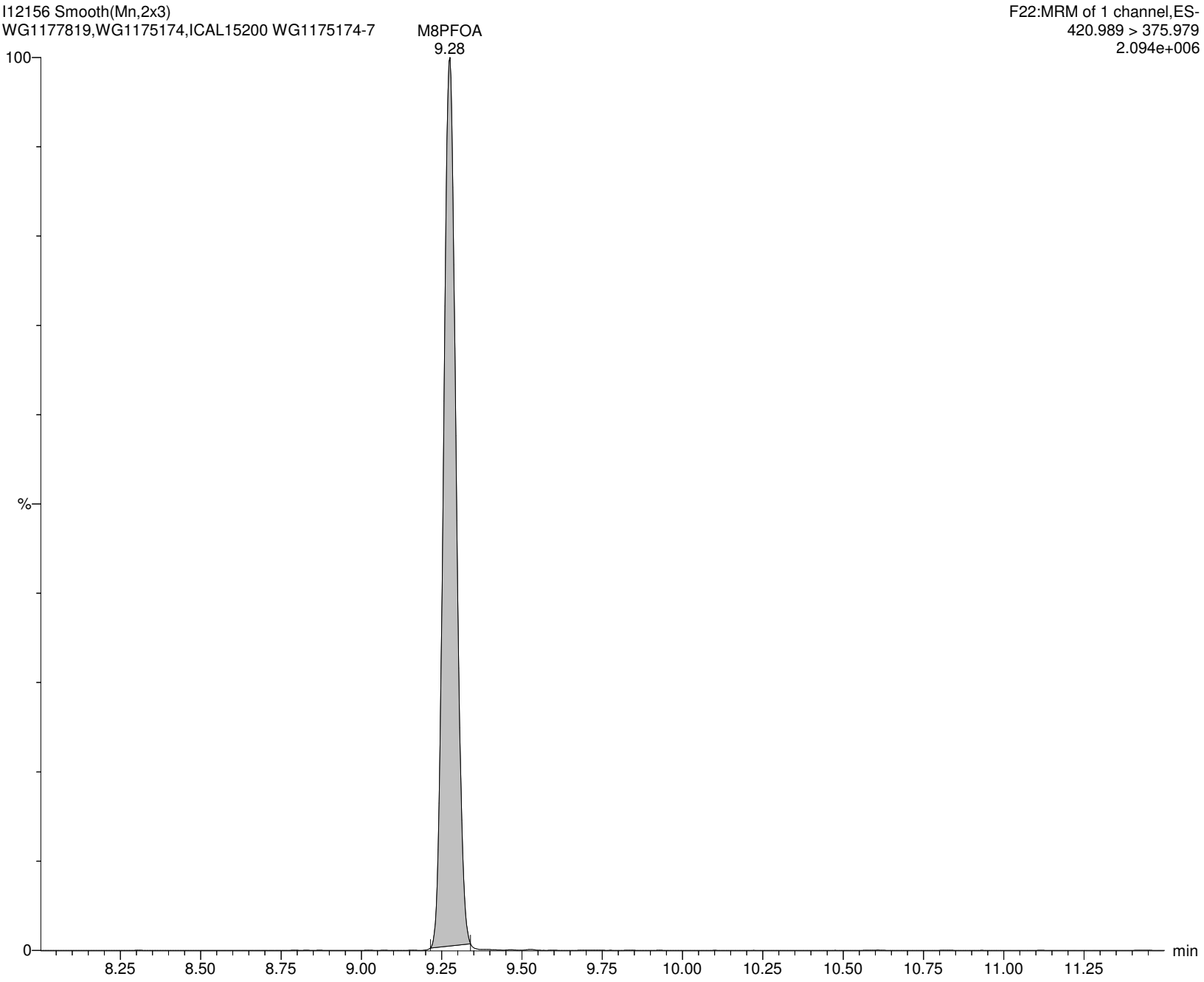

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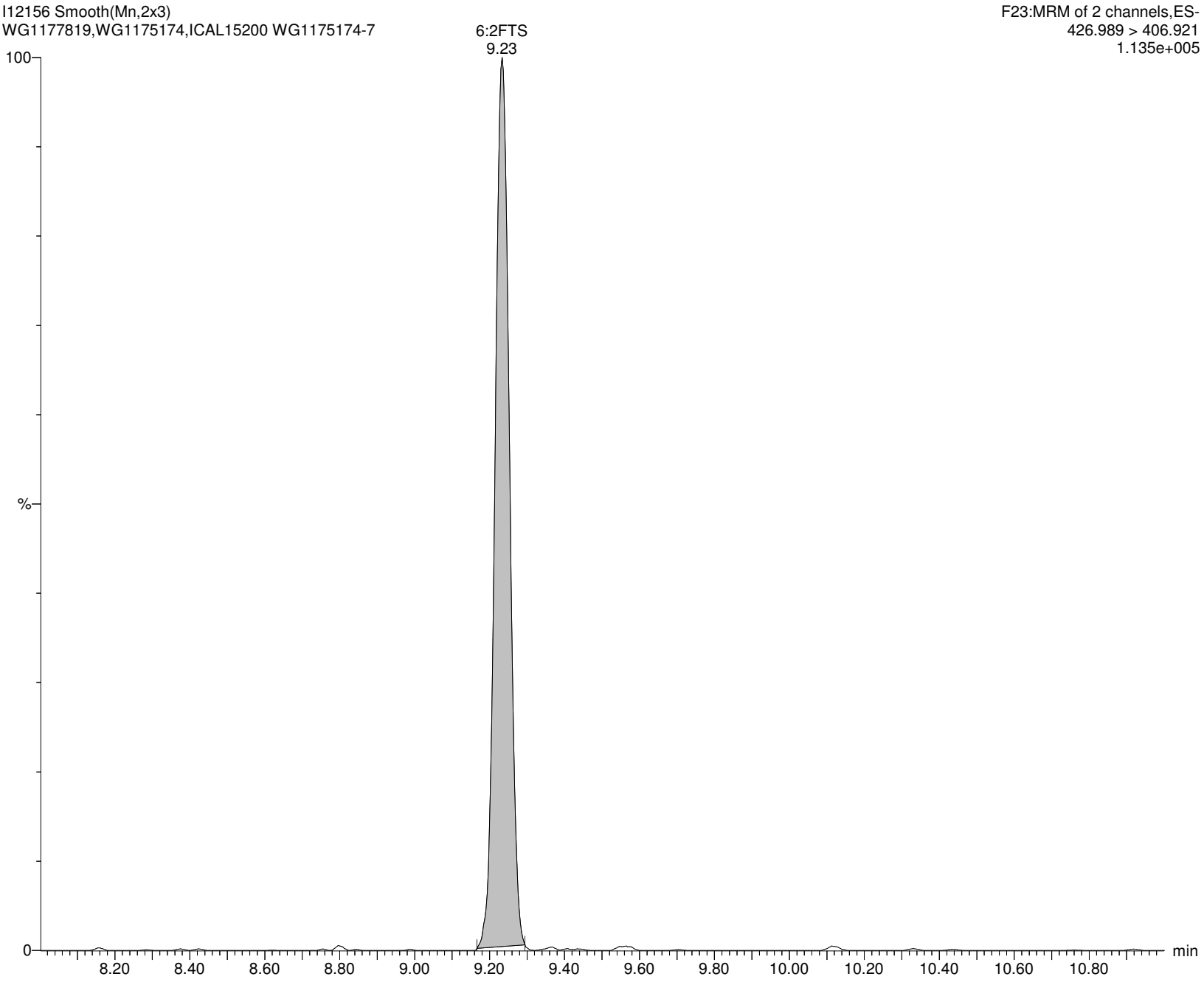

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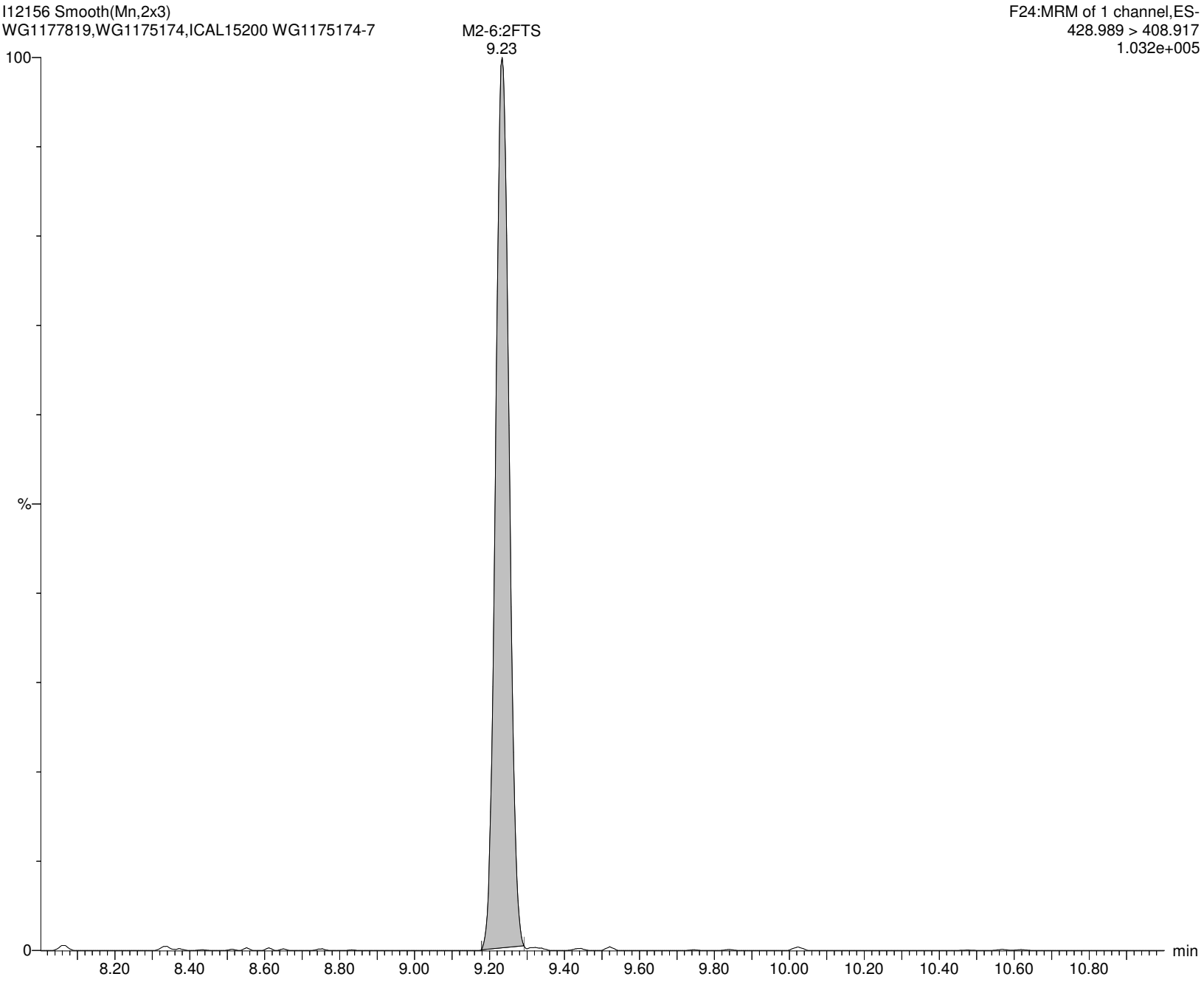

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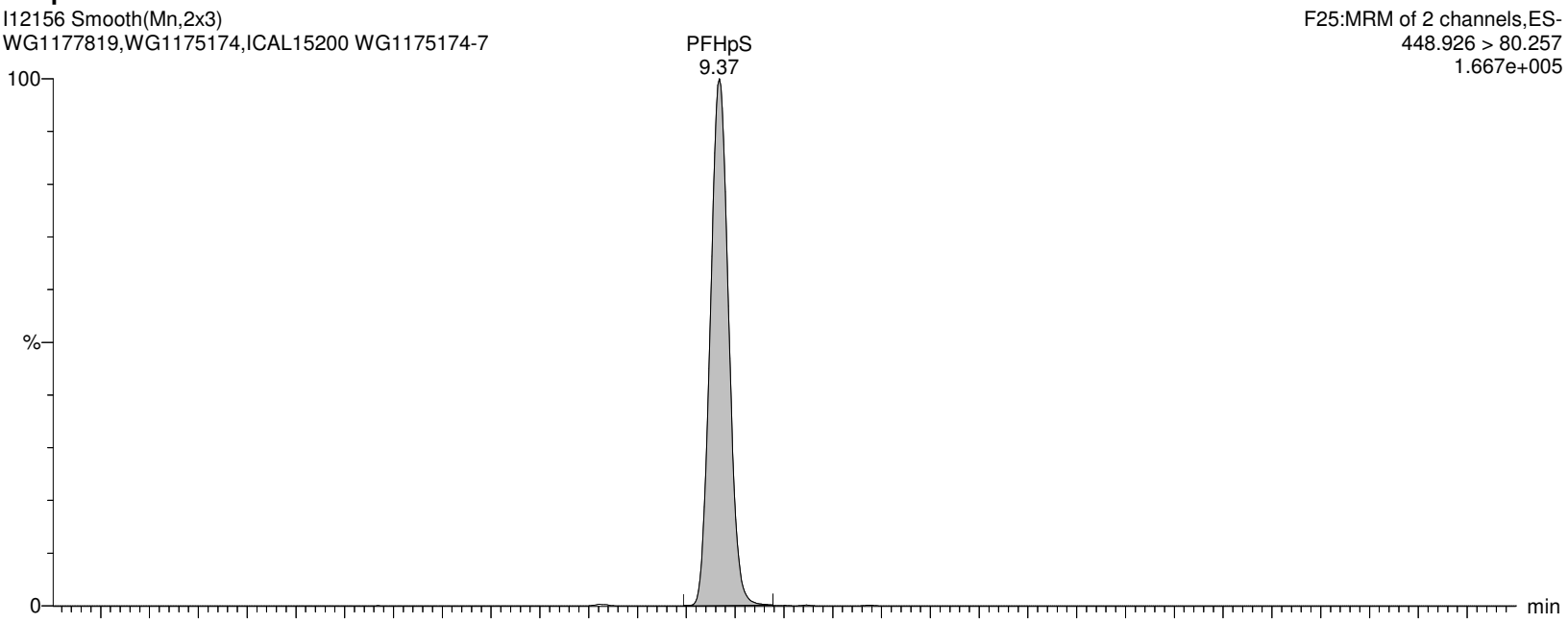

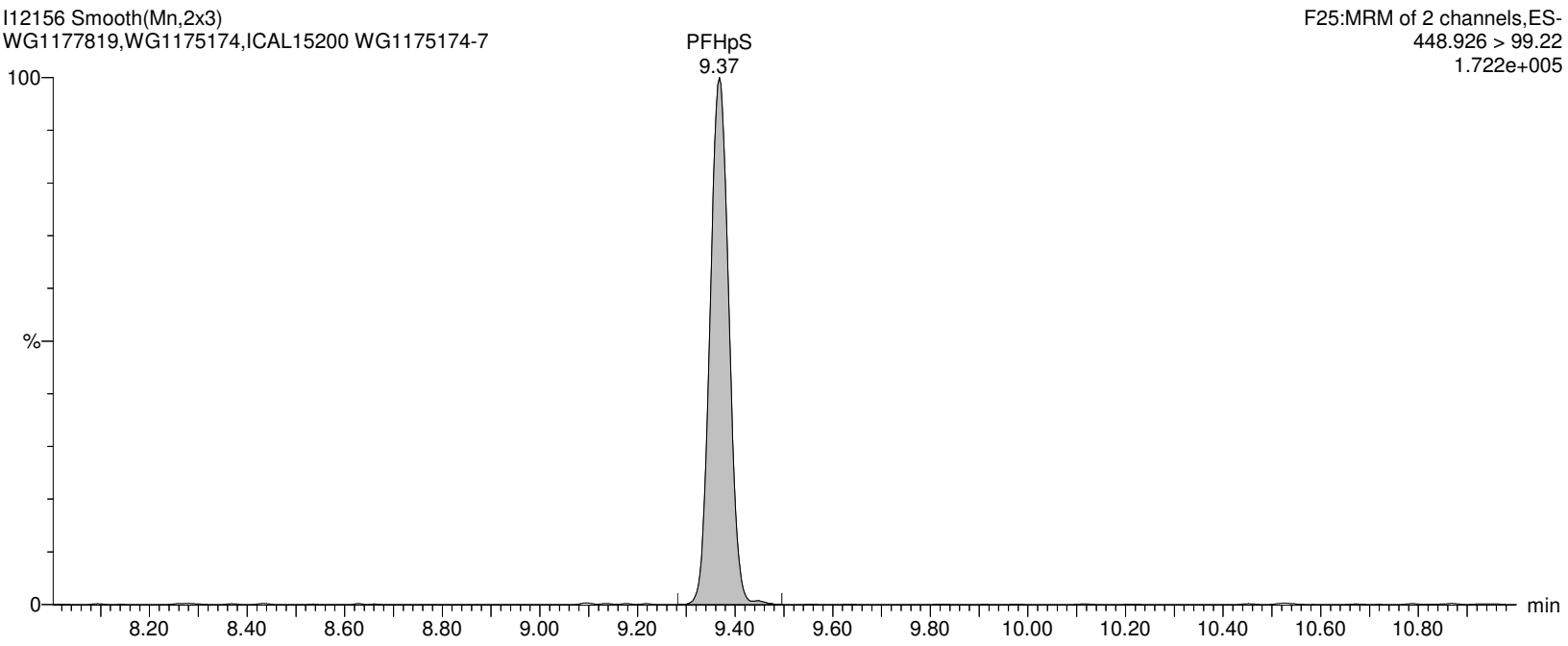

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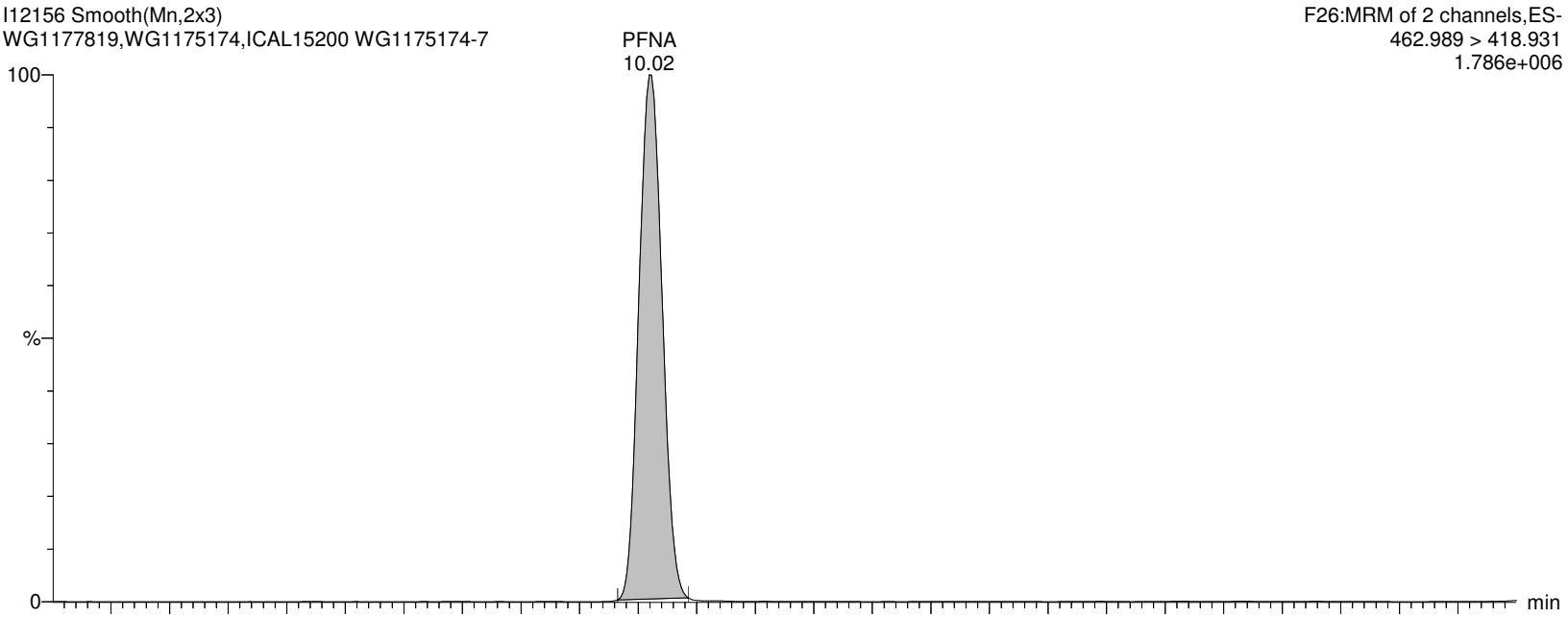

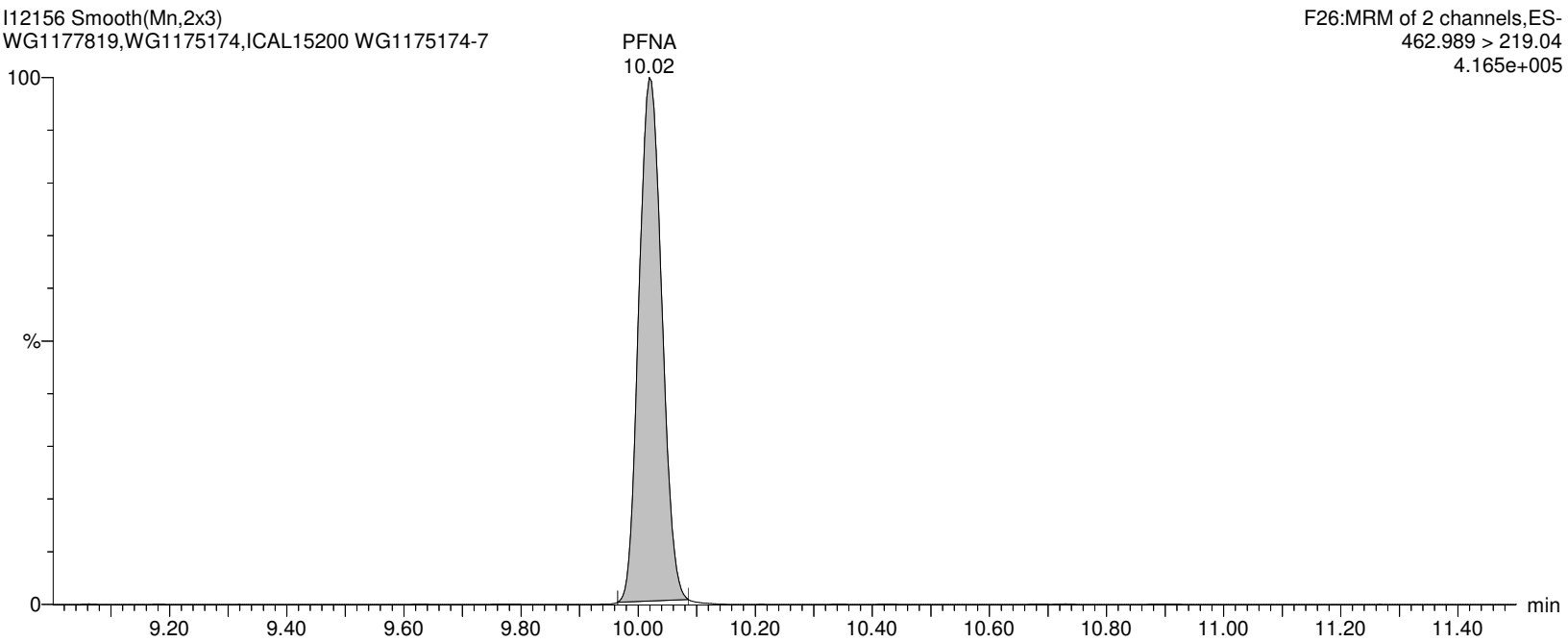

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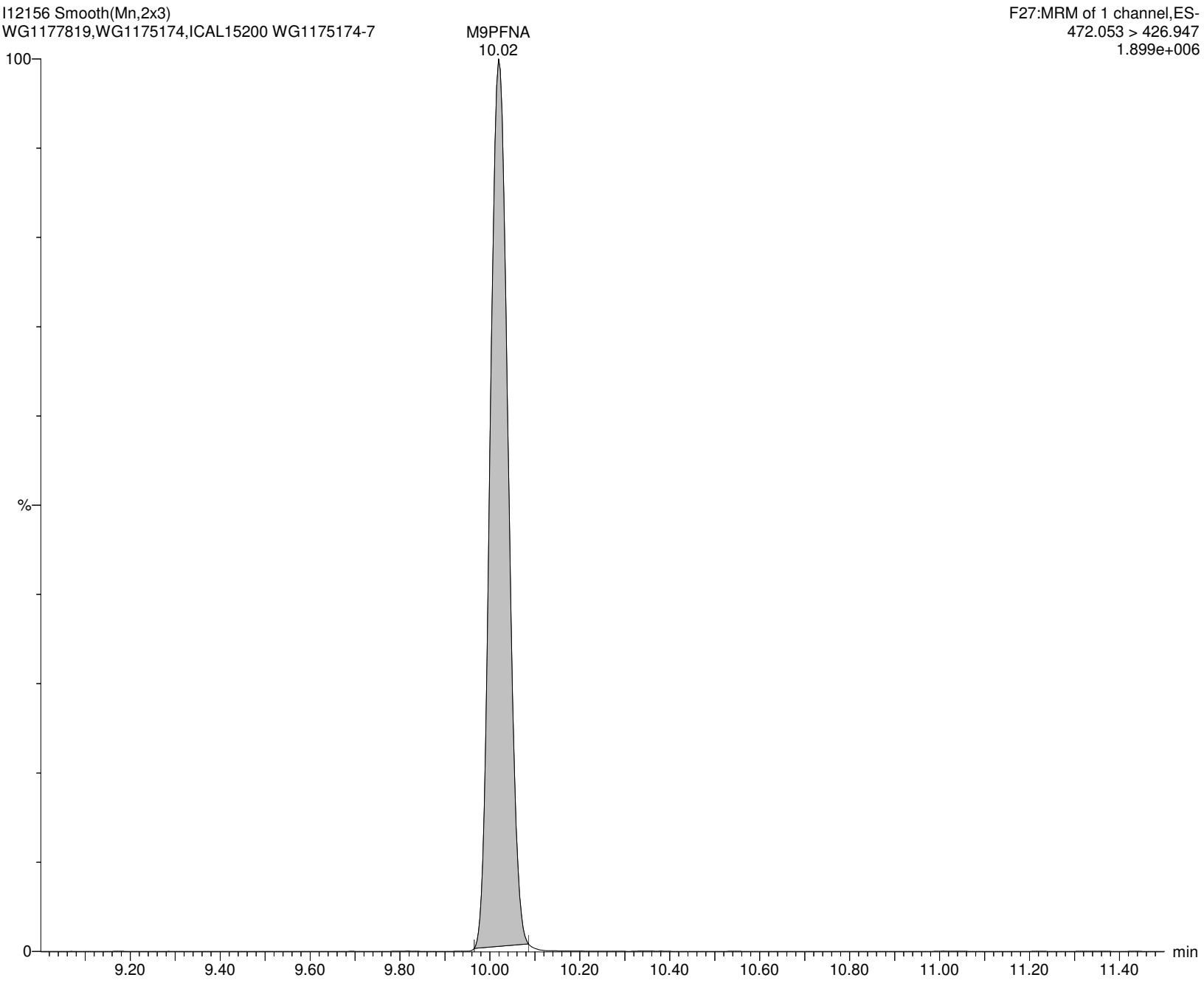

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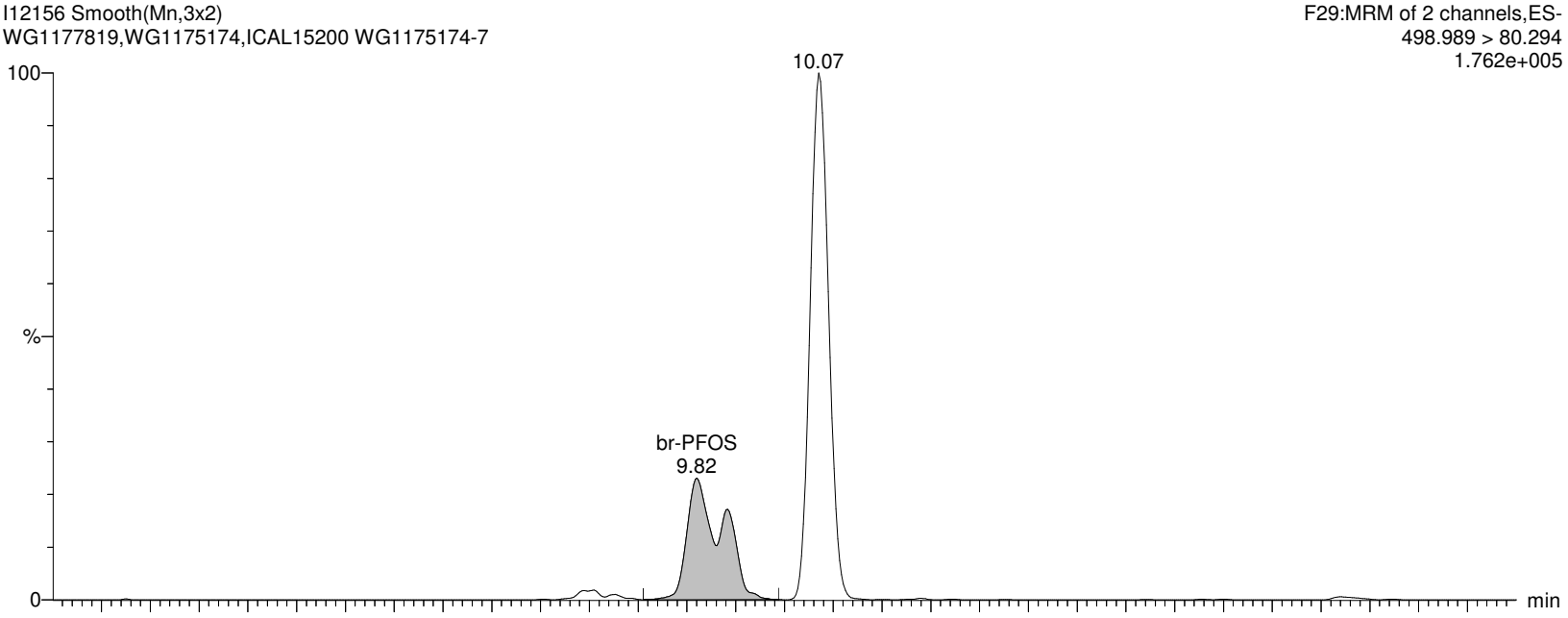

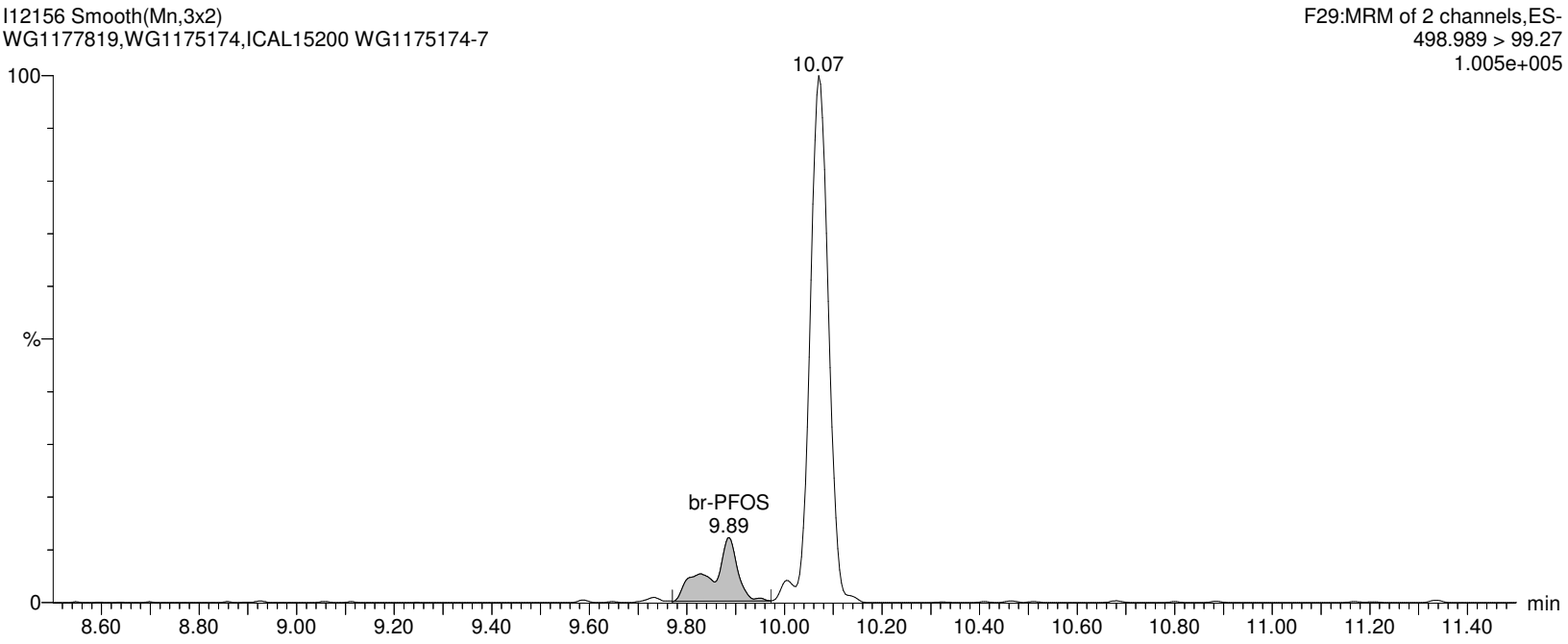

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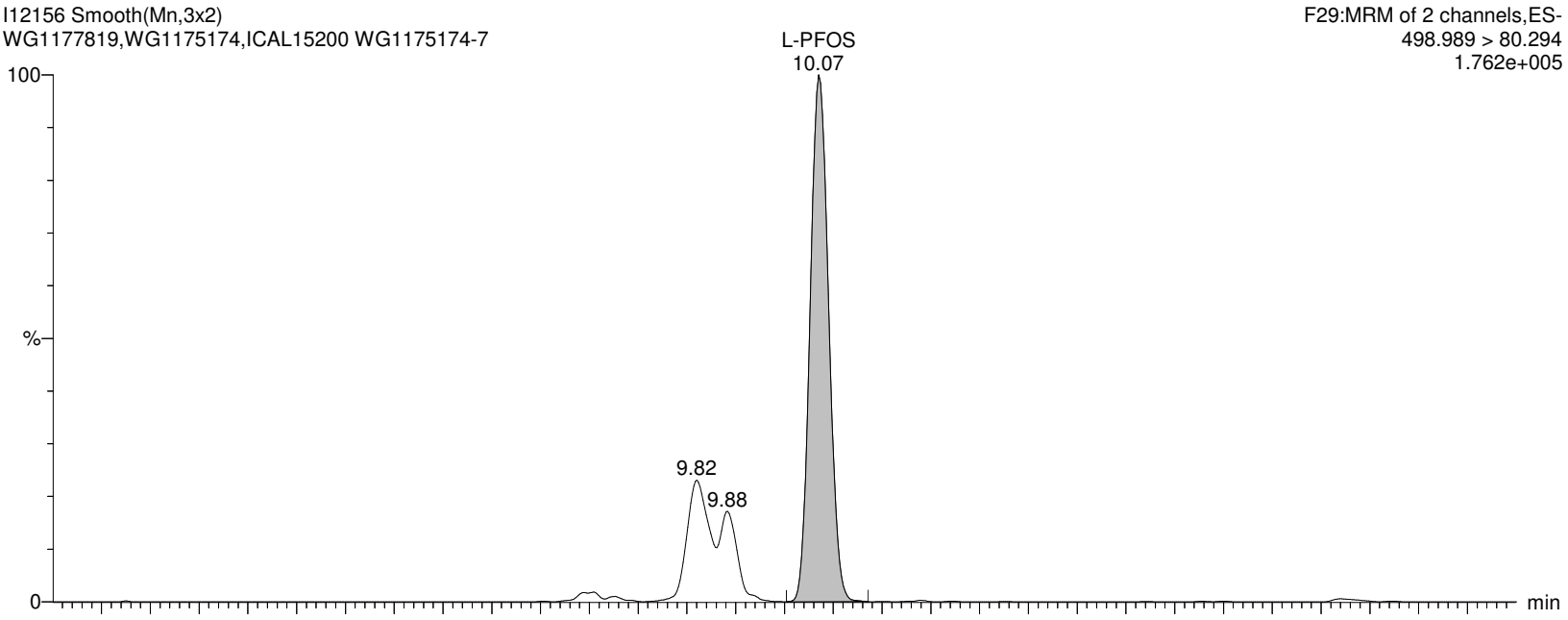

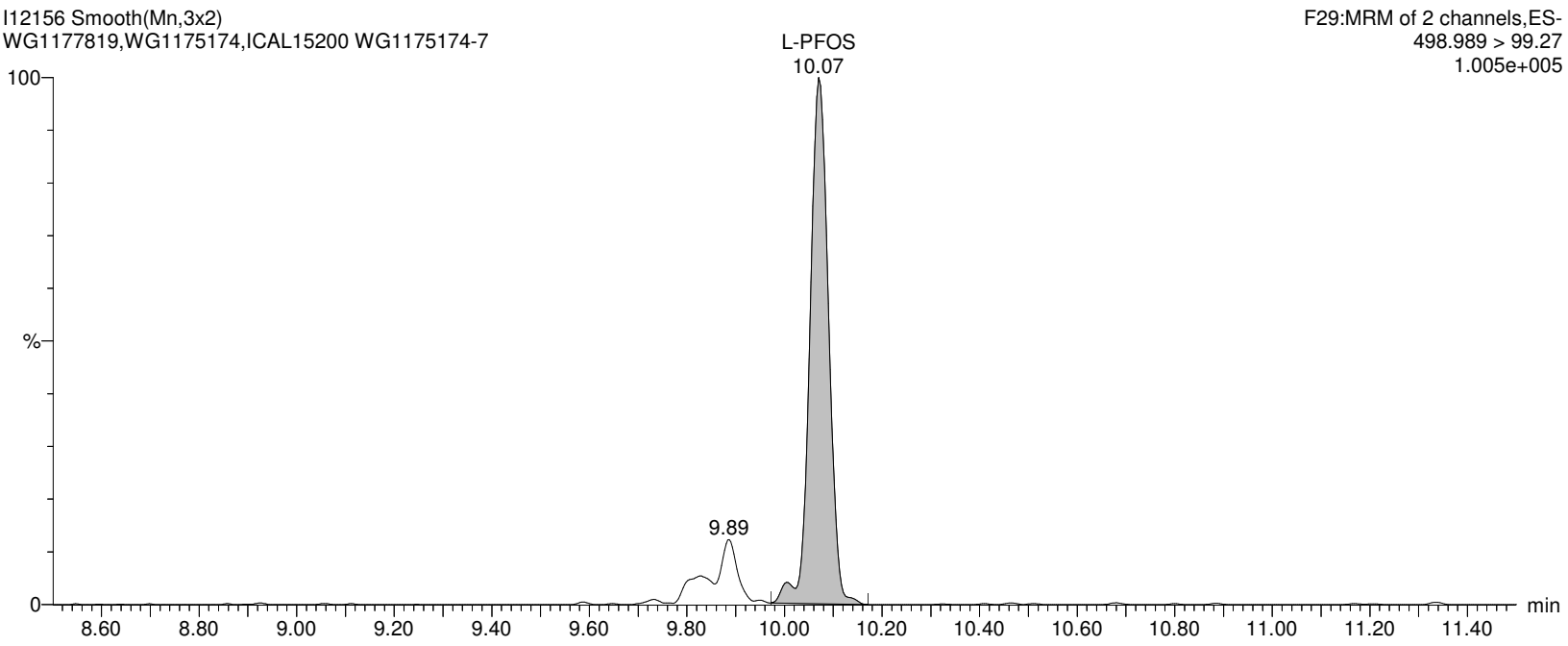

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:00 Eastern Standard Time

Name: I12156
ID: WG1175174-7
Date: 10-Nov-2018
Time: 07:58:12
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,1
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Tune Method Name: C:\MassLynx\Data\2018\181101_TUNE.IPR
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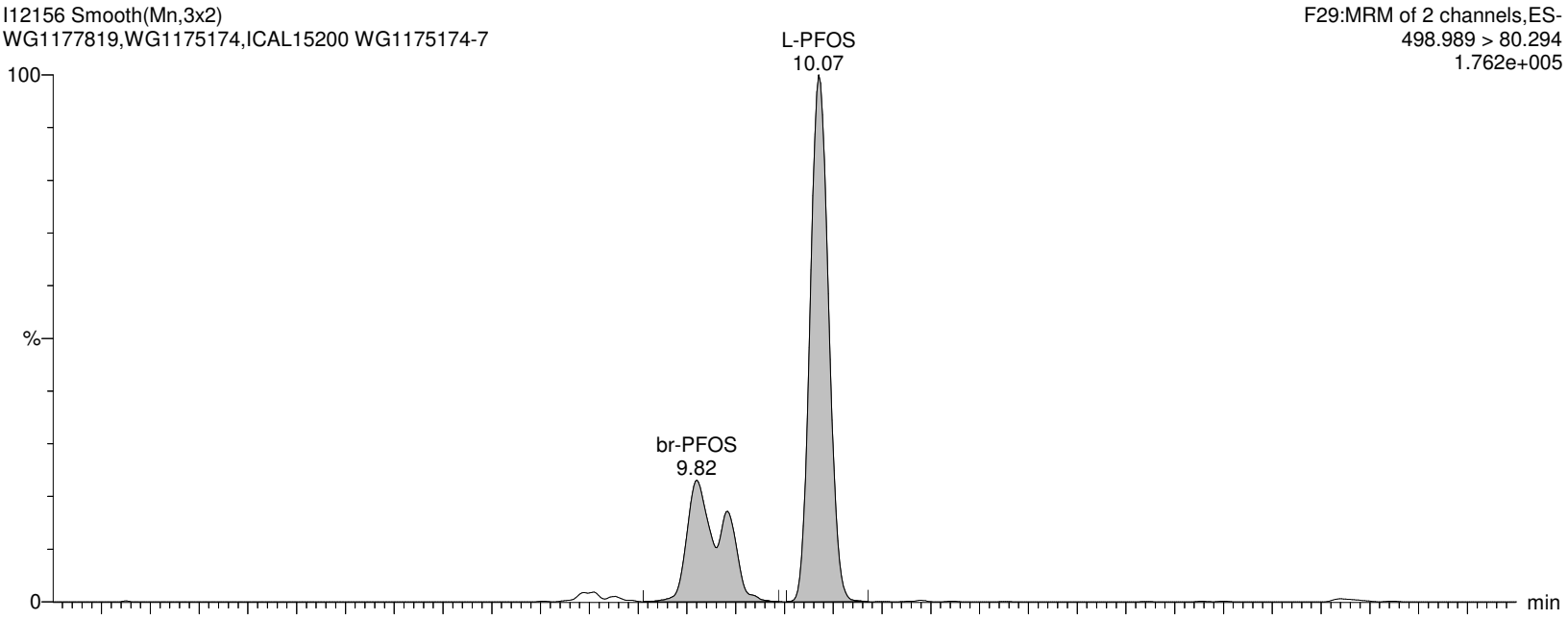

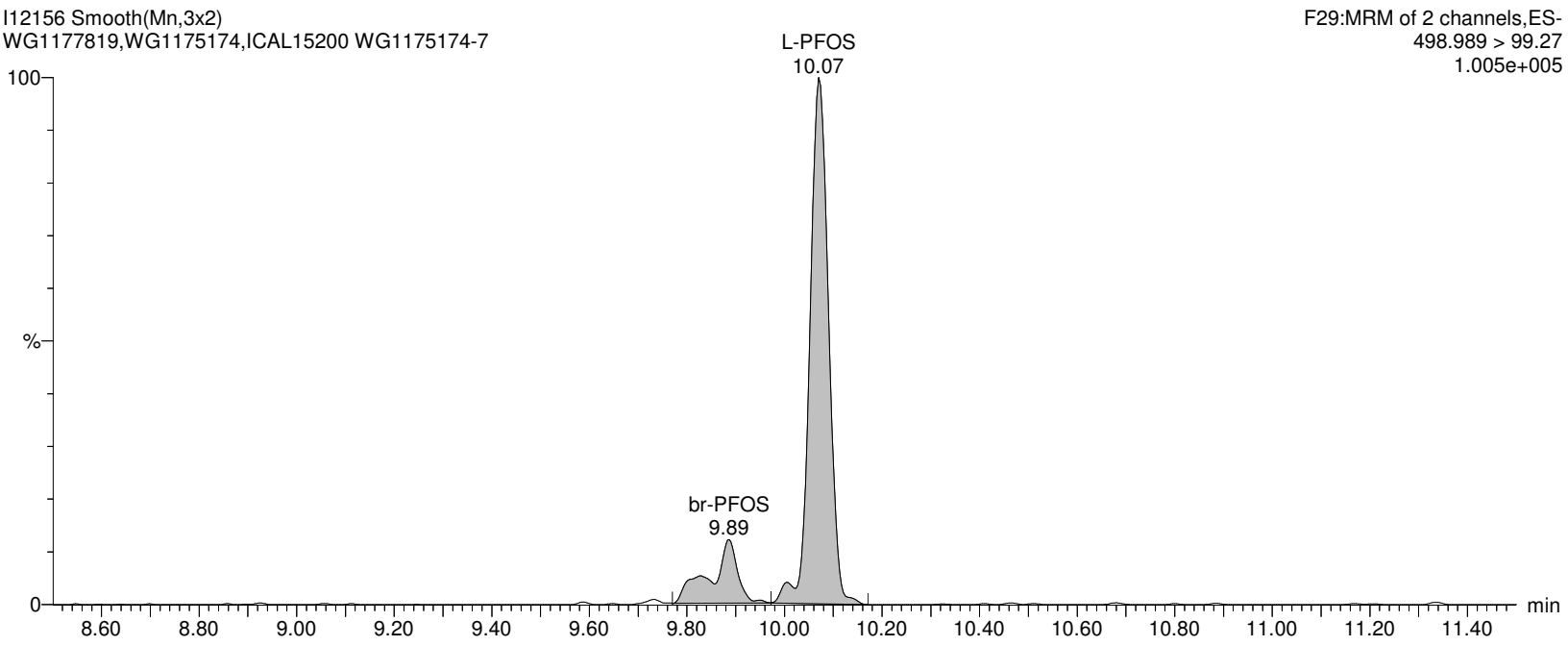

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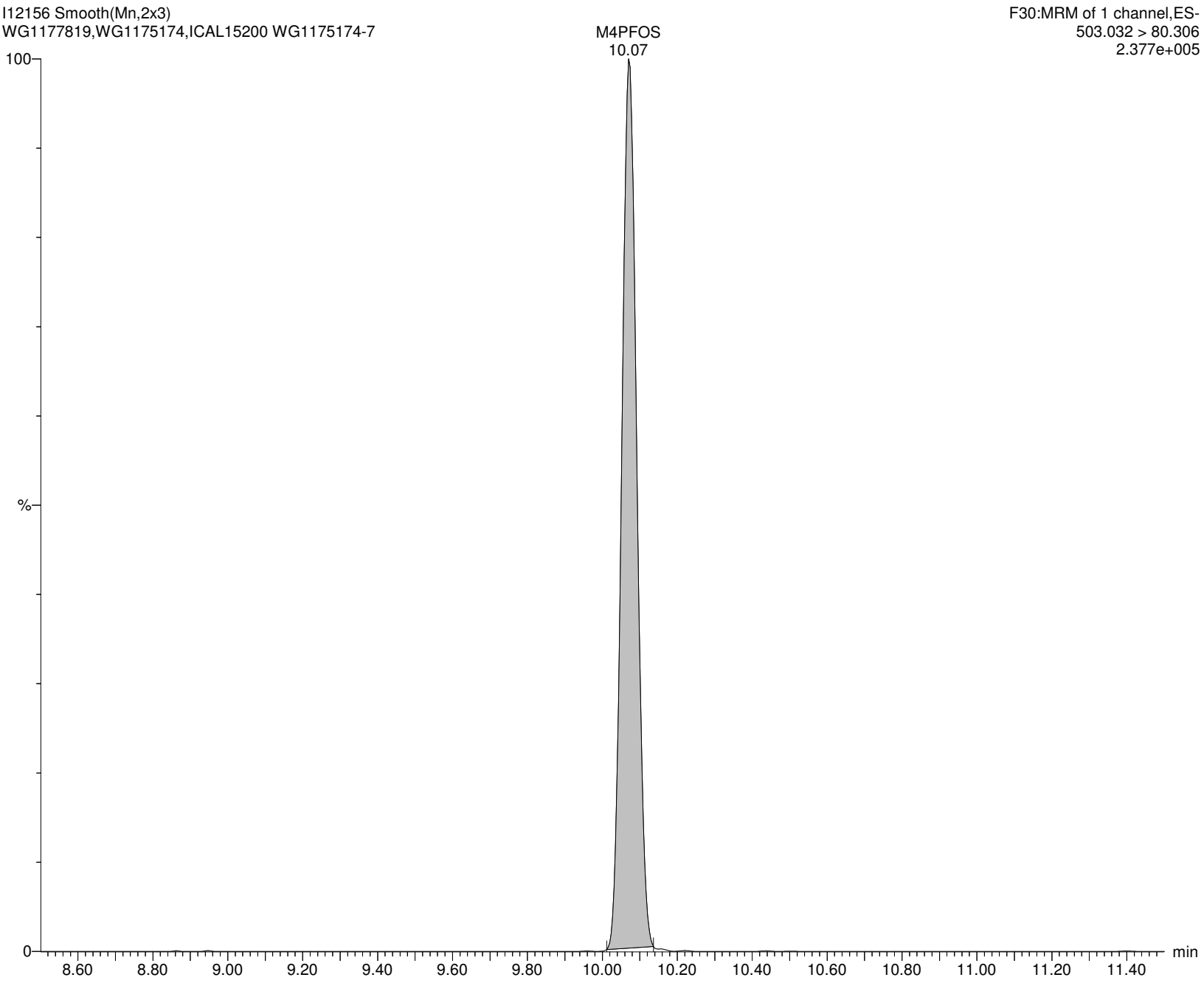

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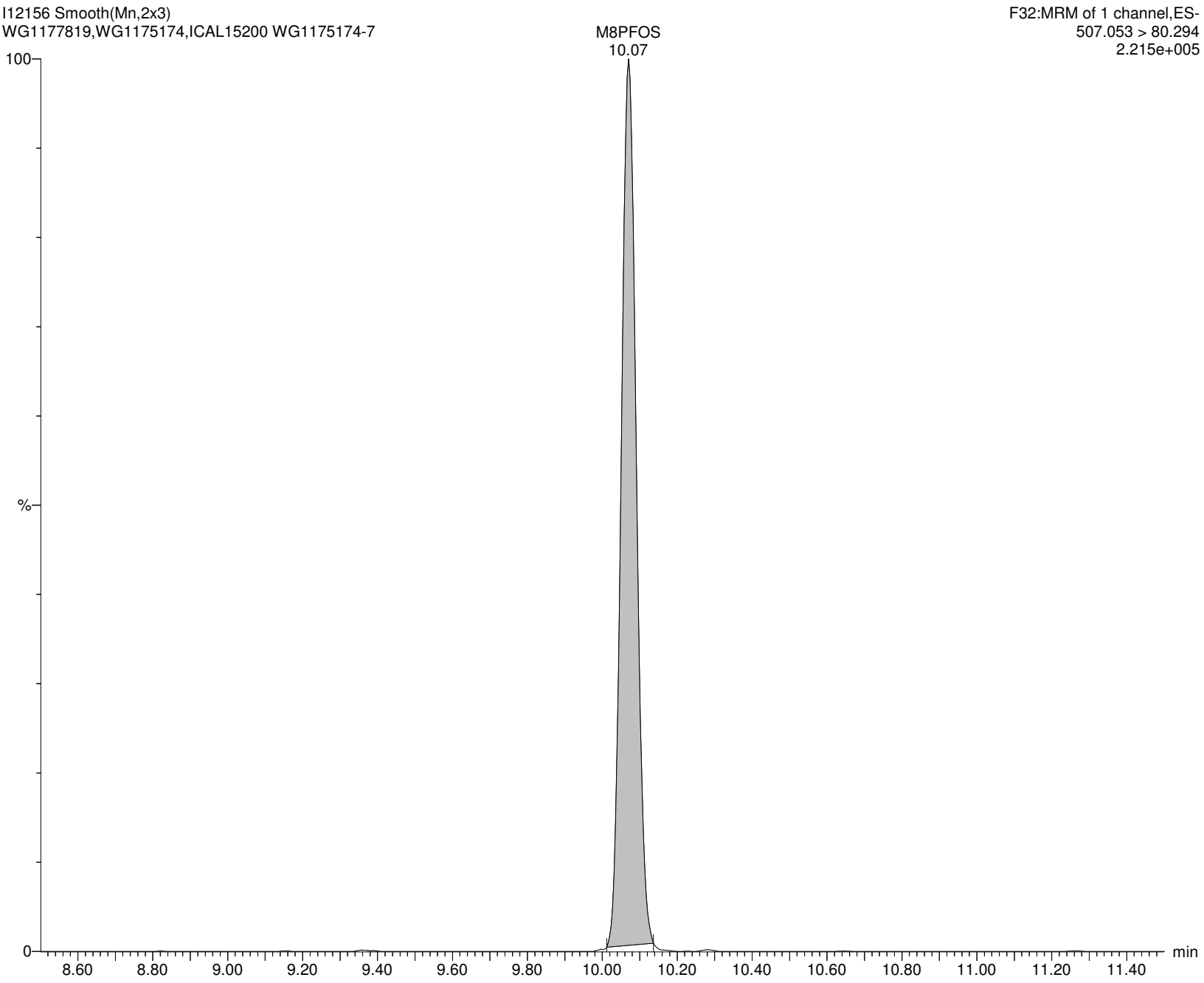

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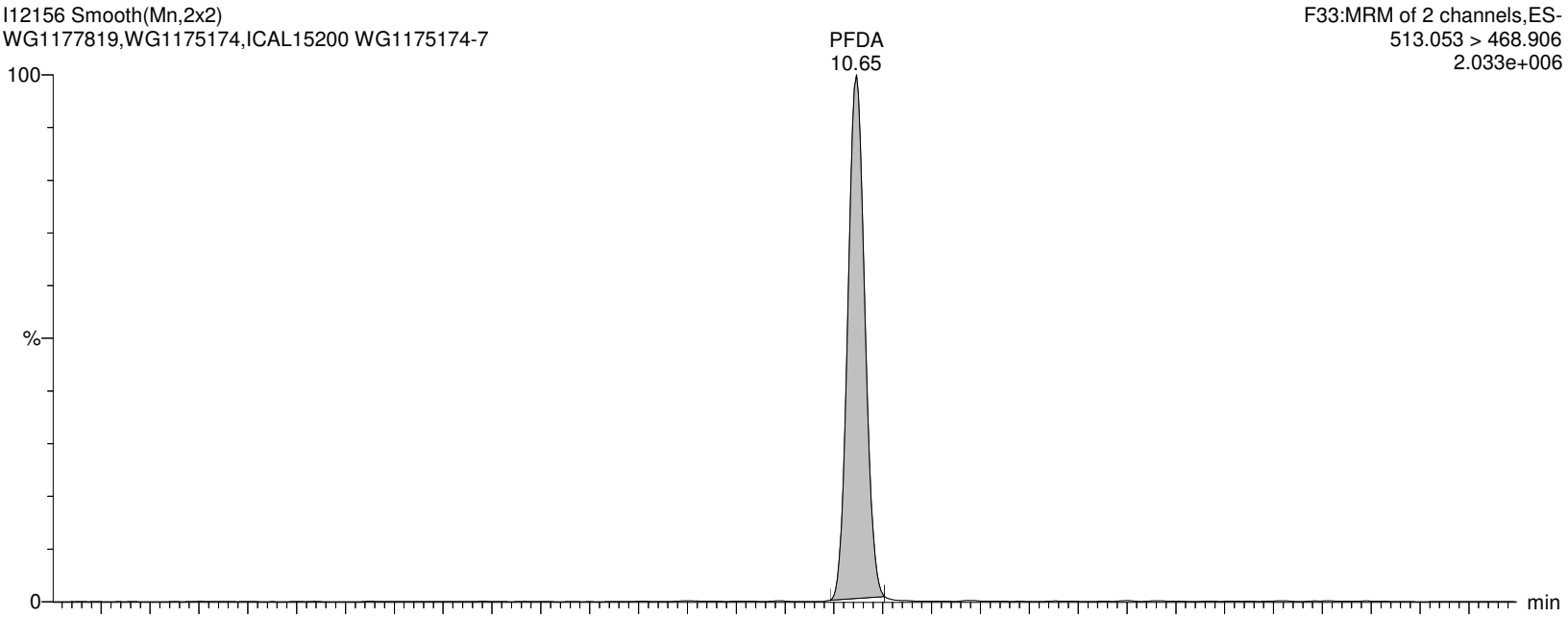

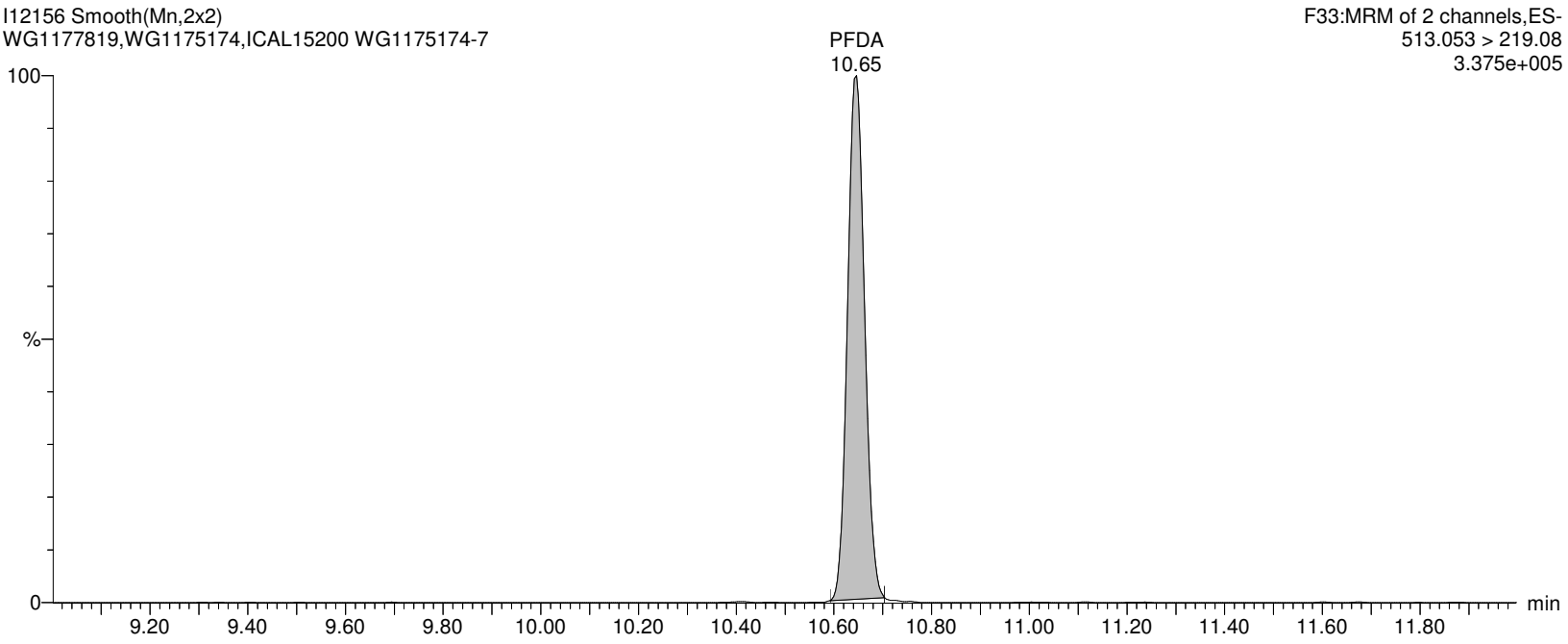

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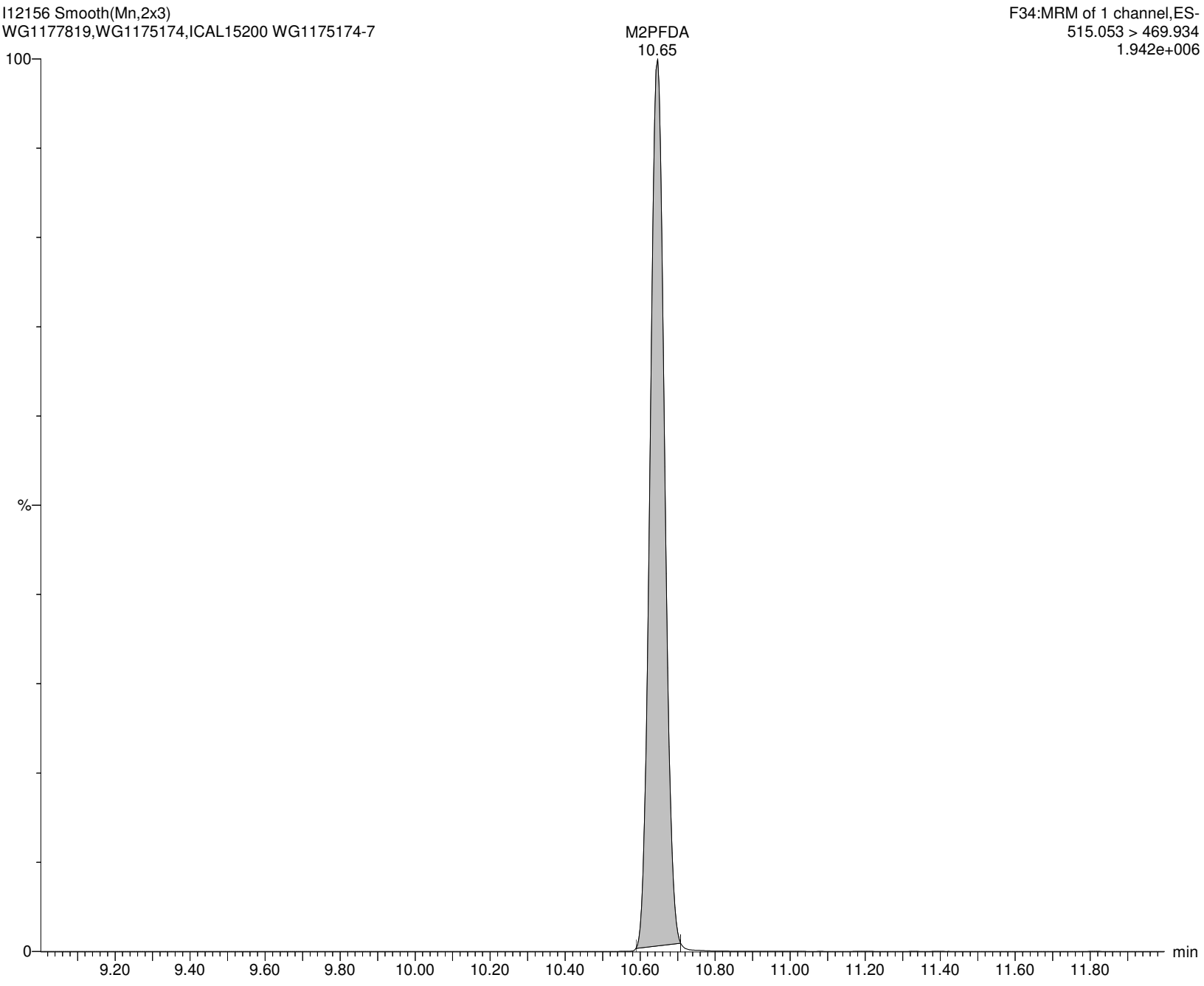

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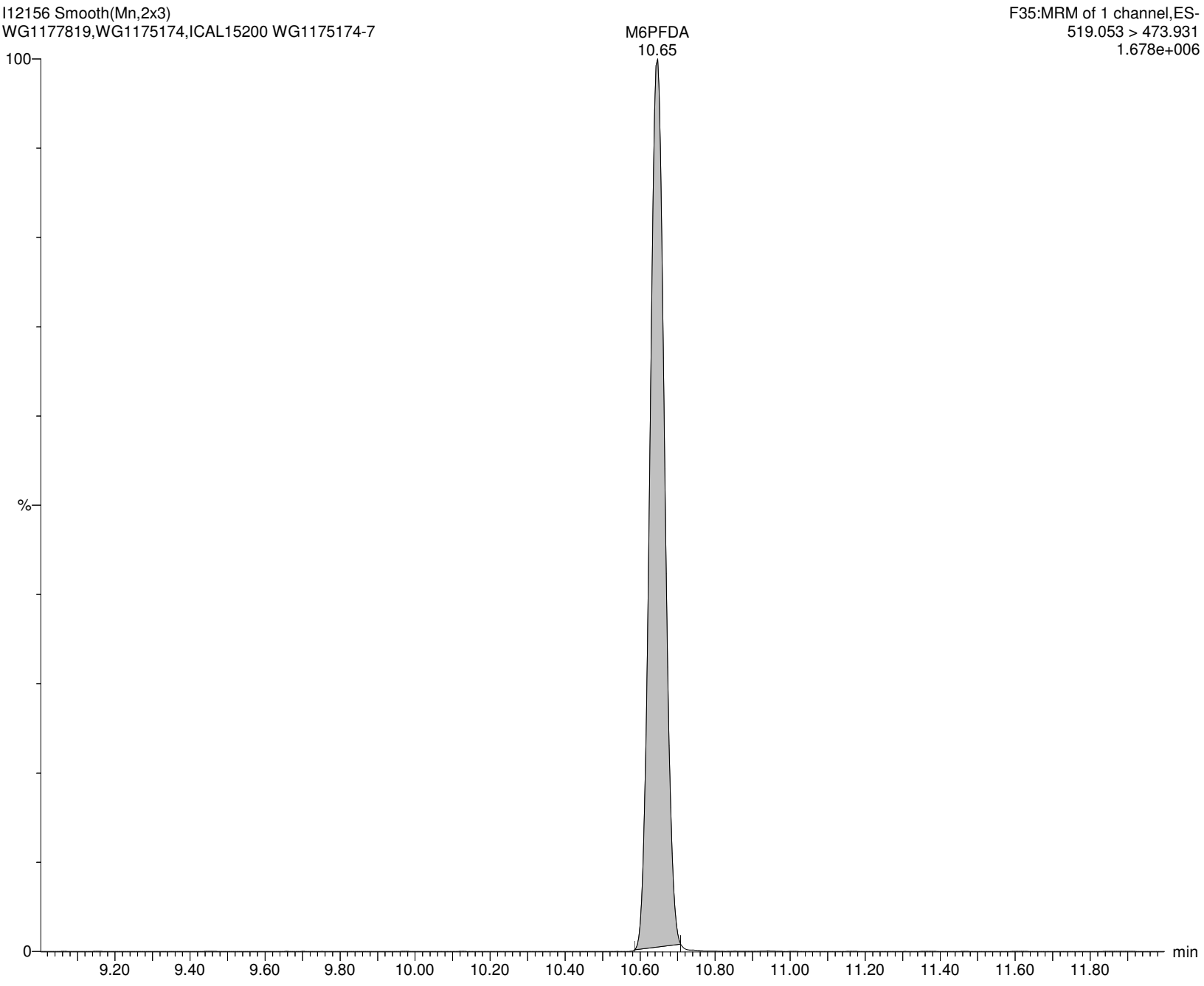

all concentration units in (ng/mL)

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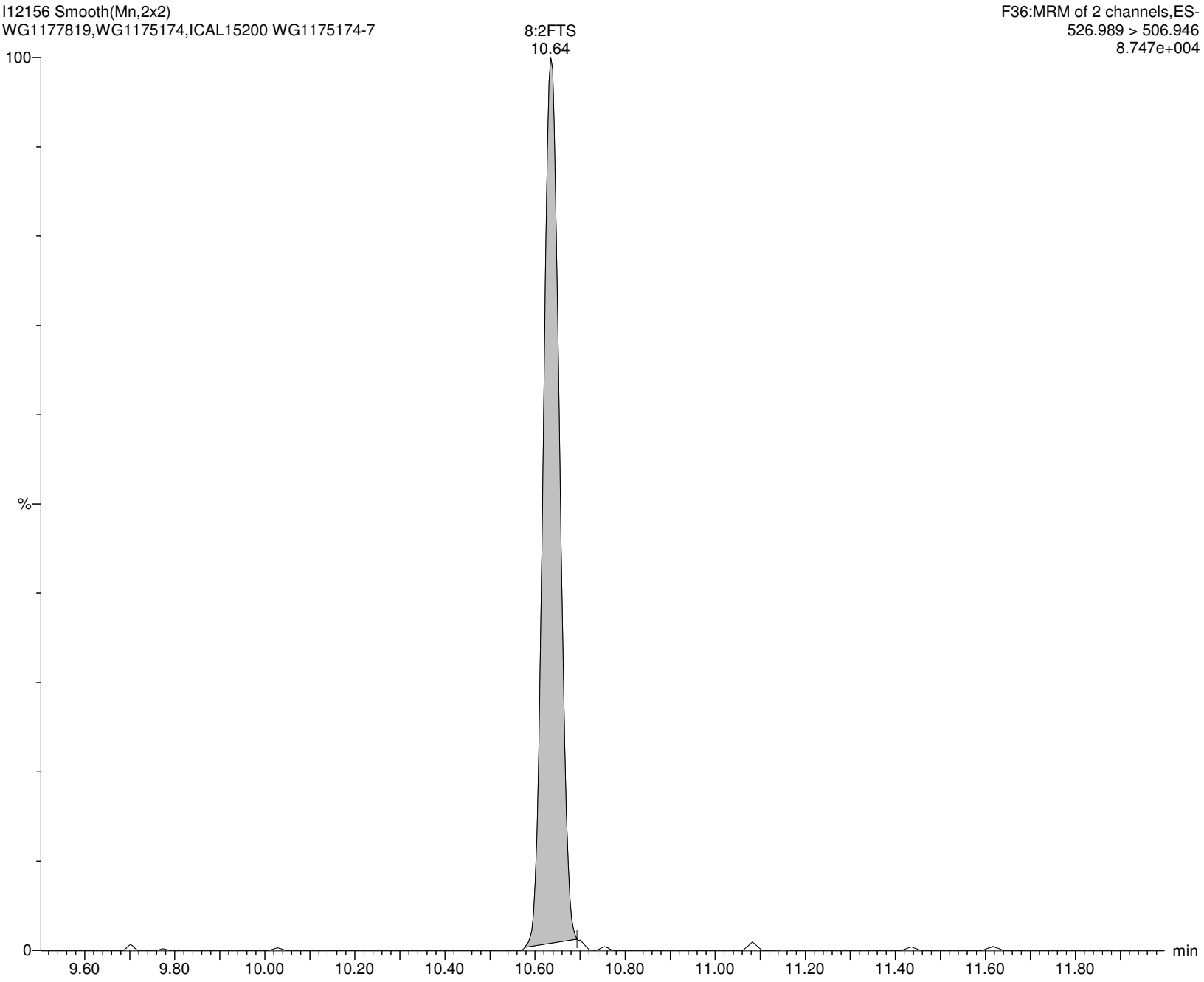

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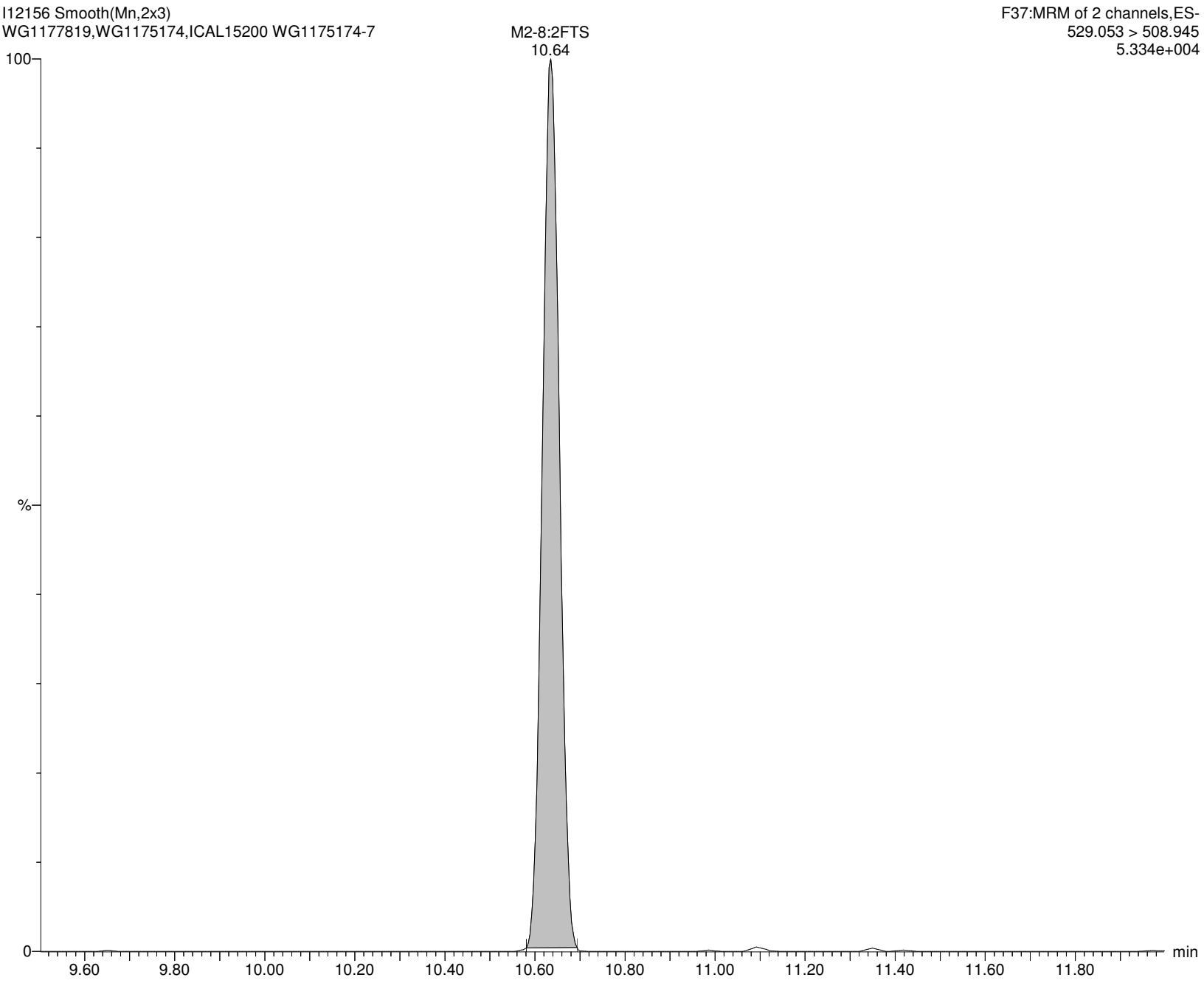

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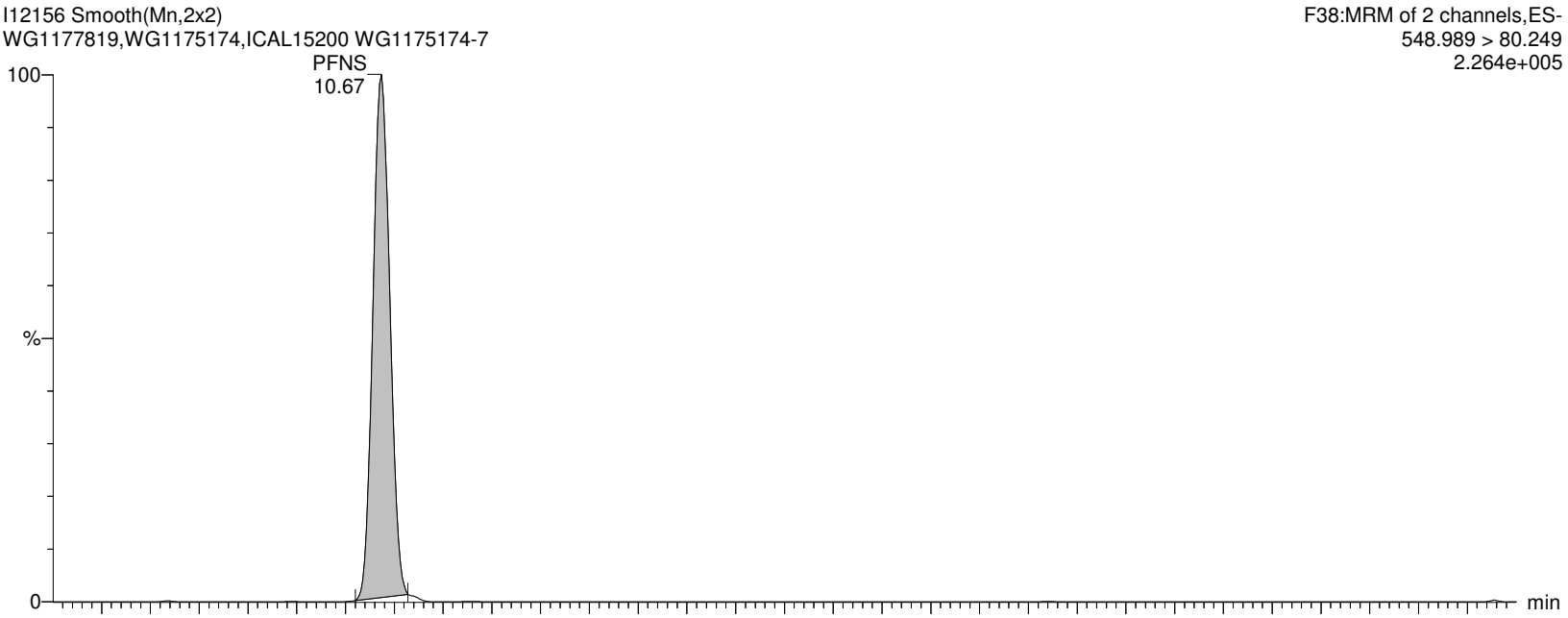

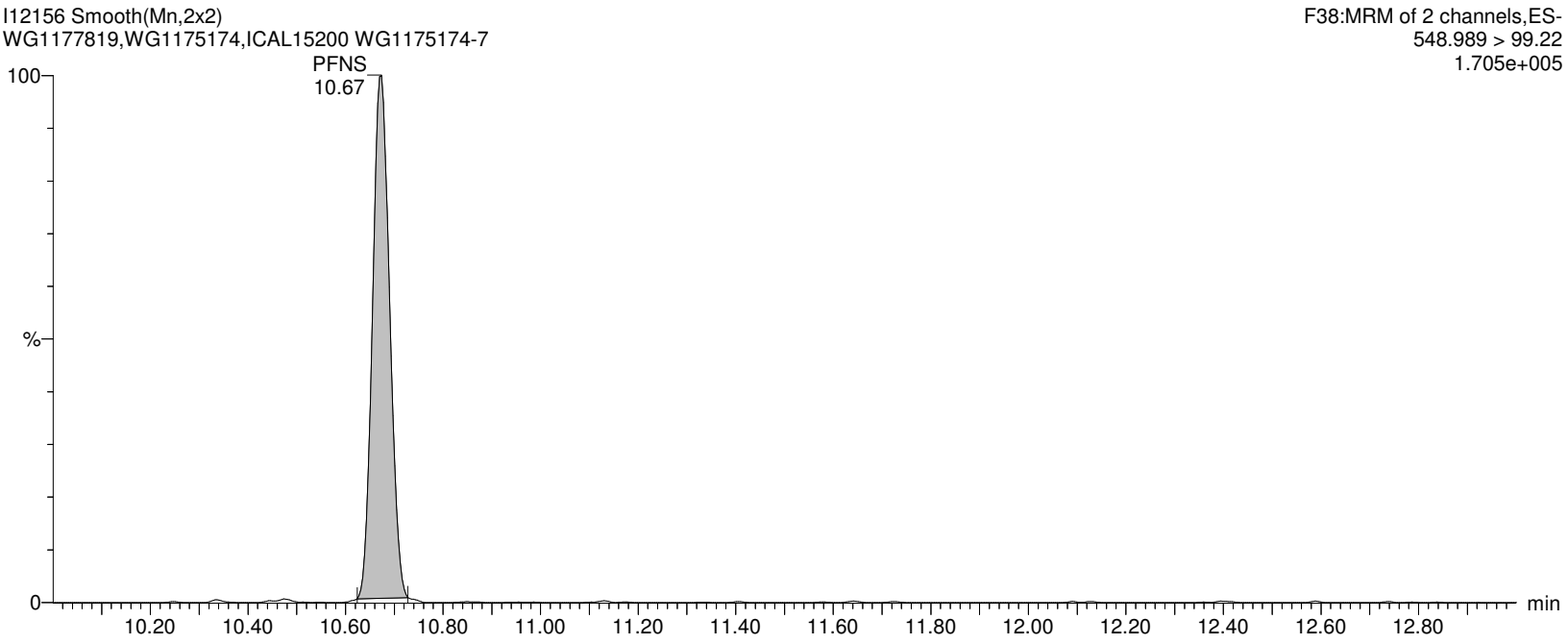

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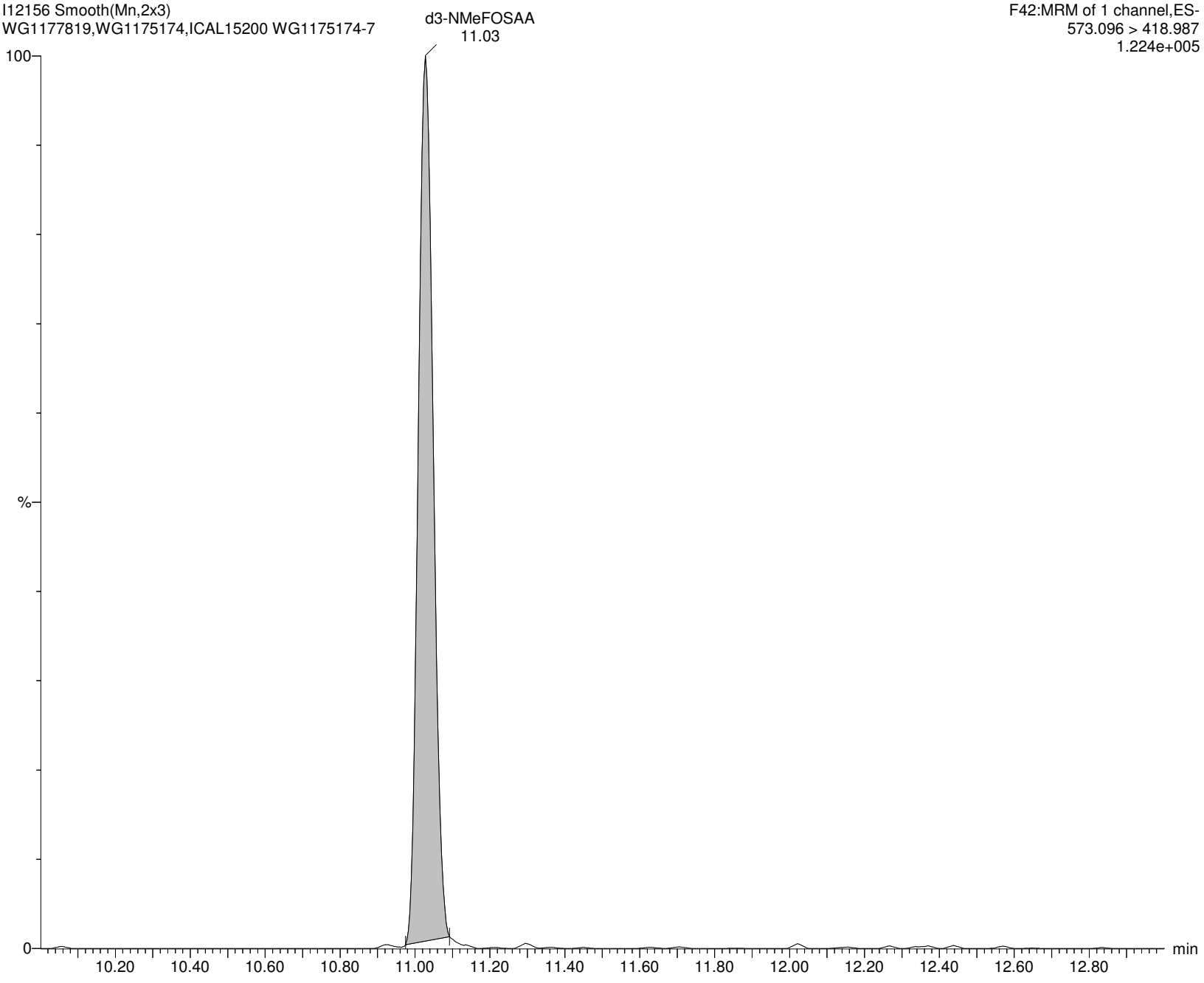

all concentration units in (ng/mL)

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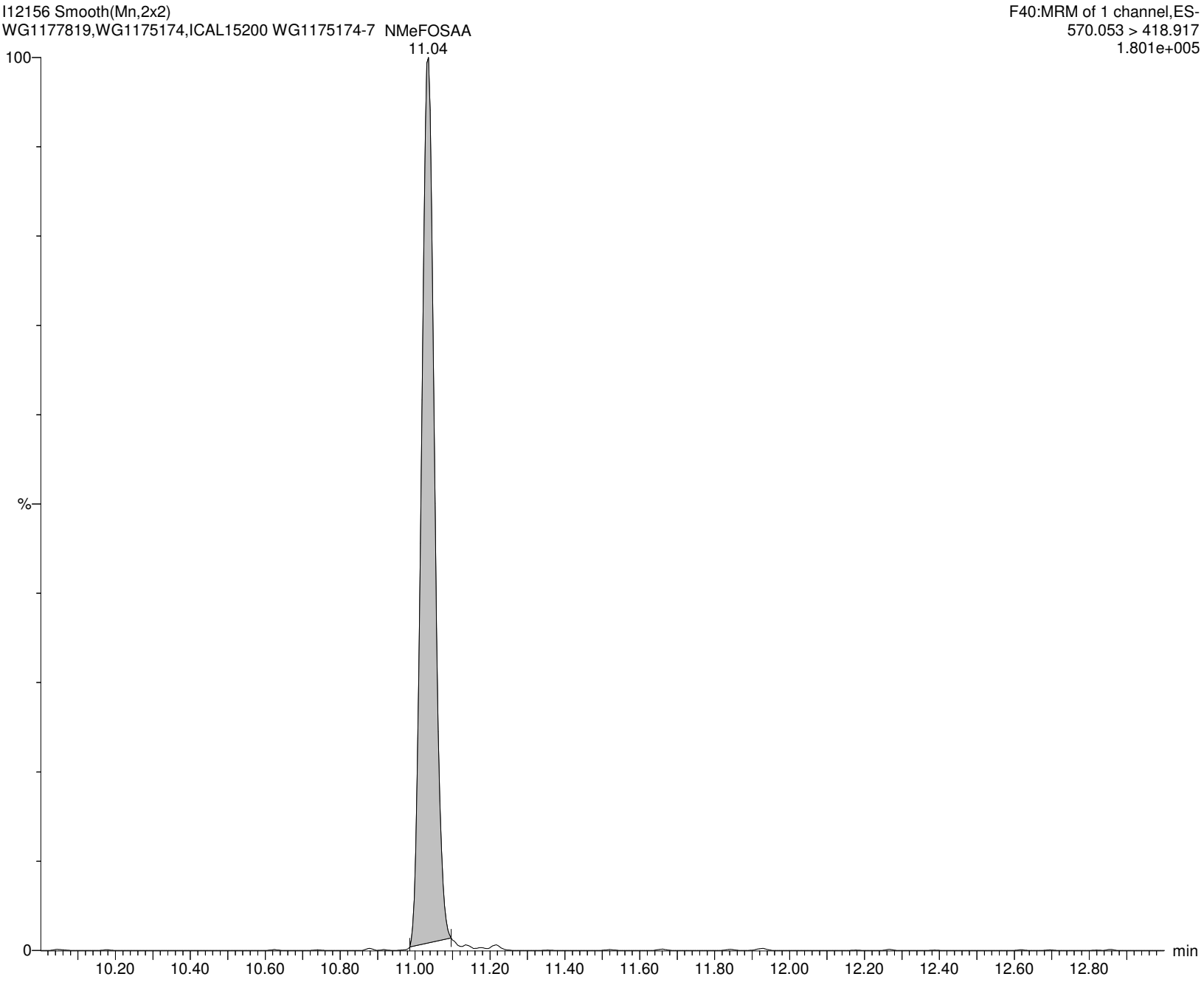

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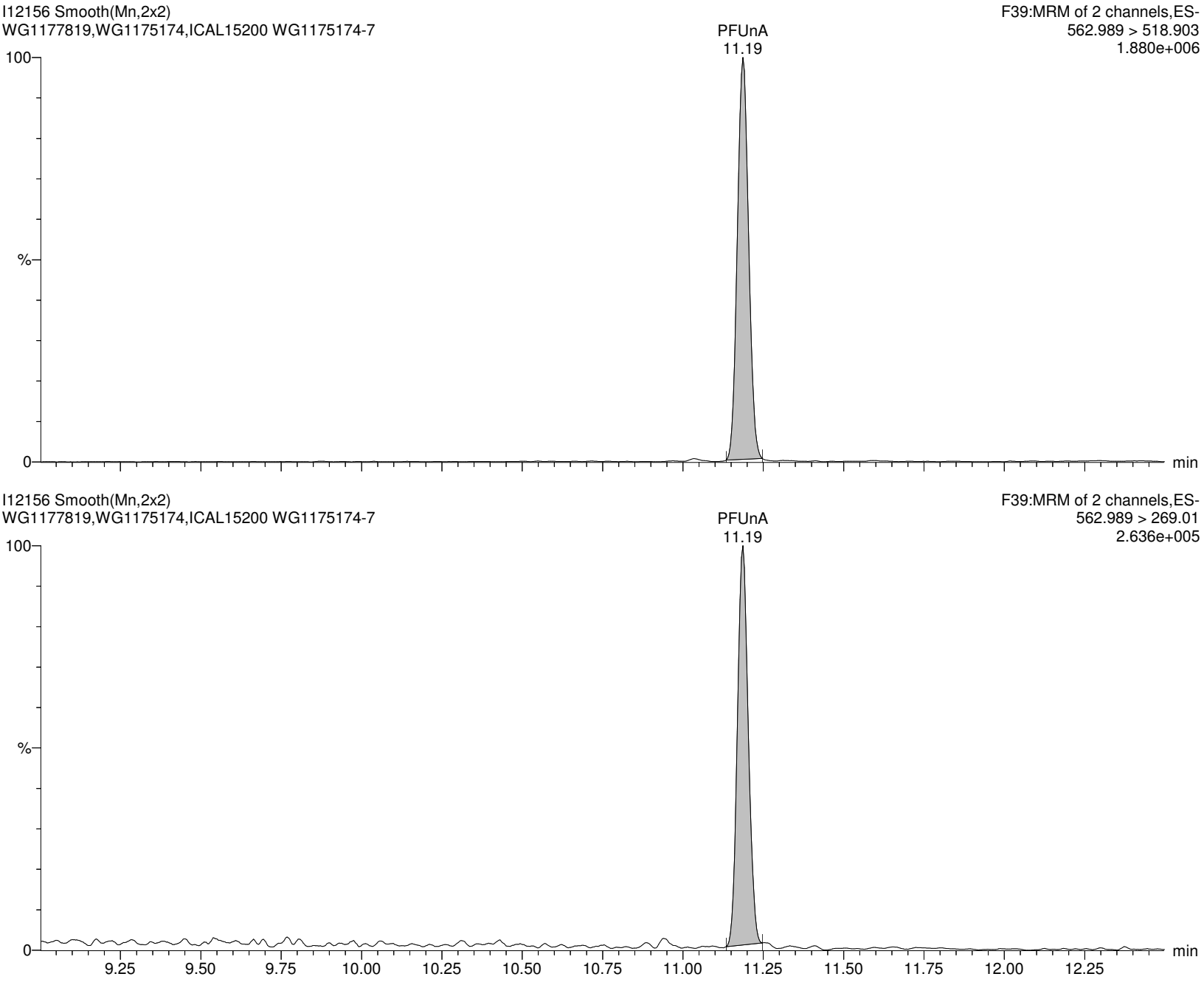

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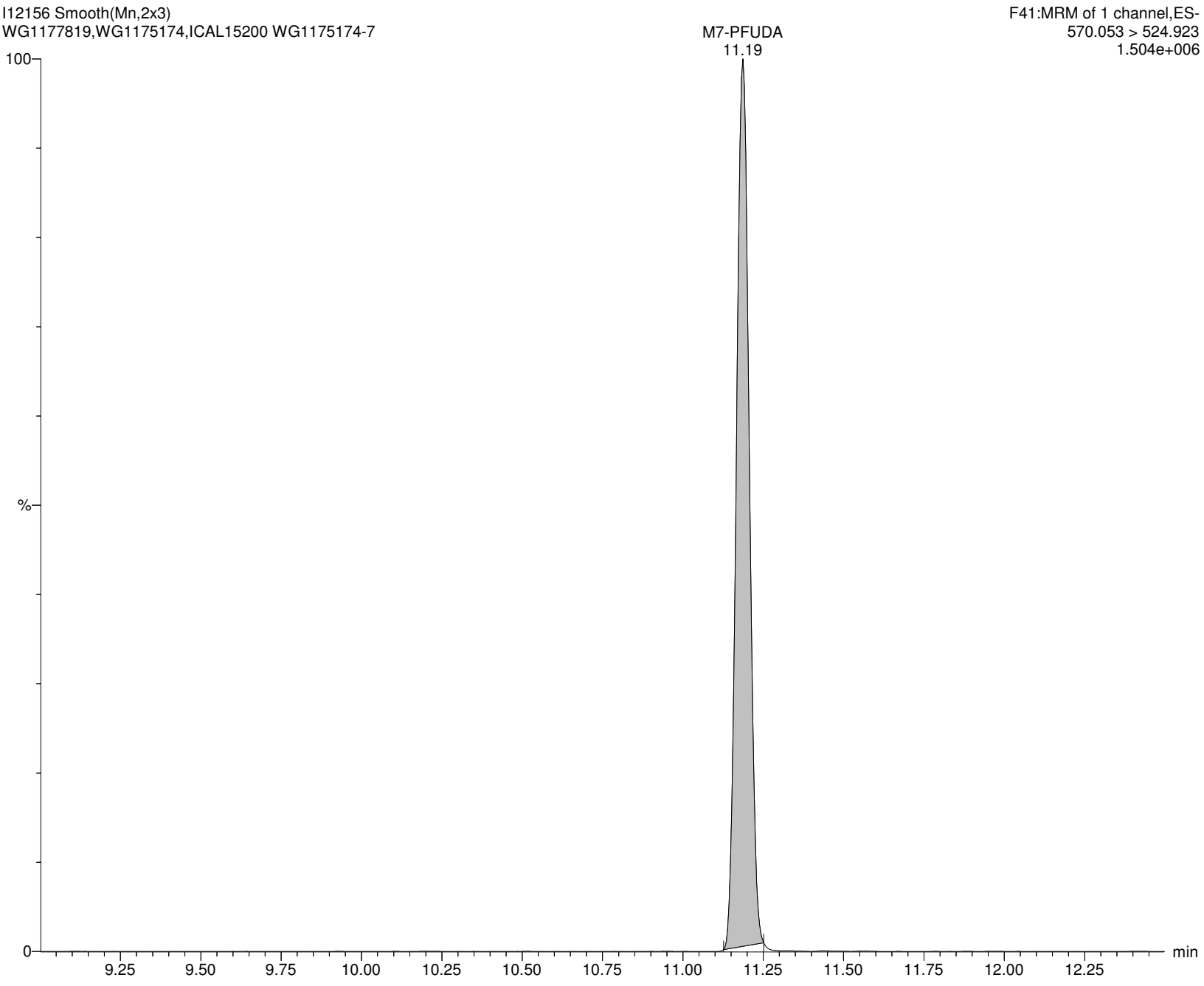
M7-PFUDA



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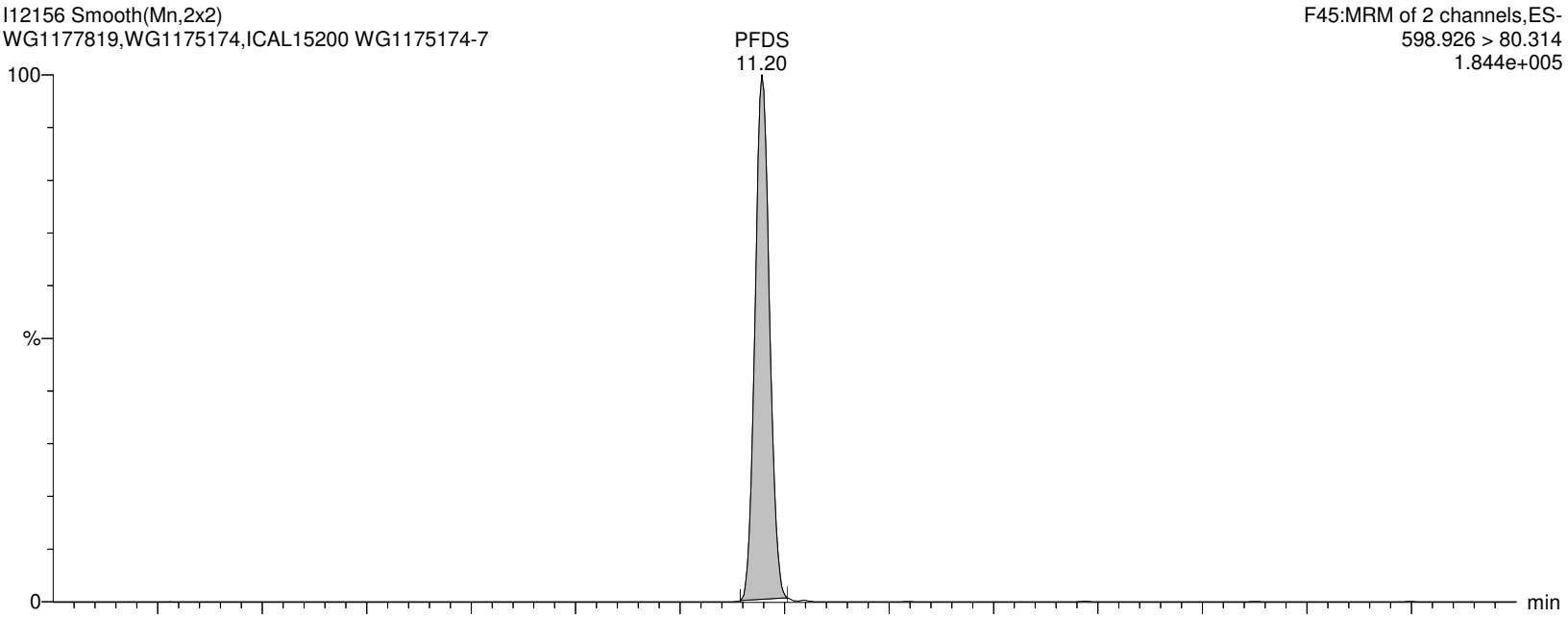

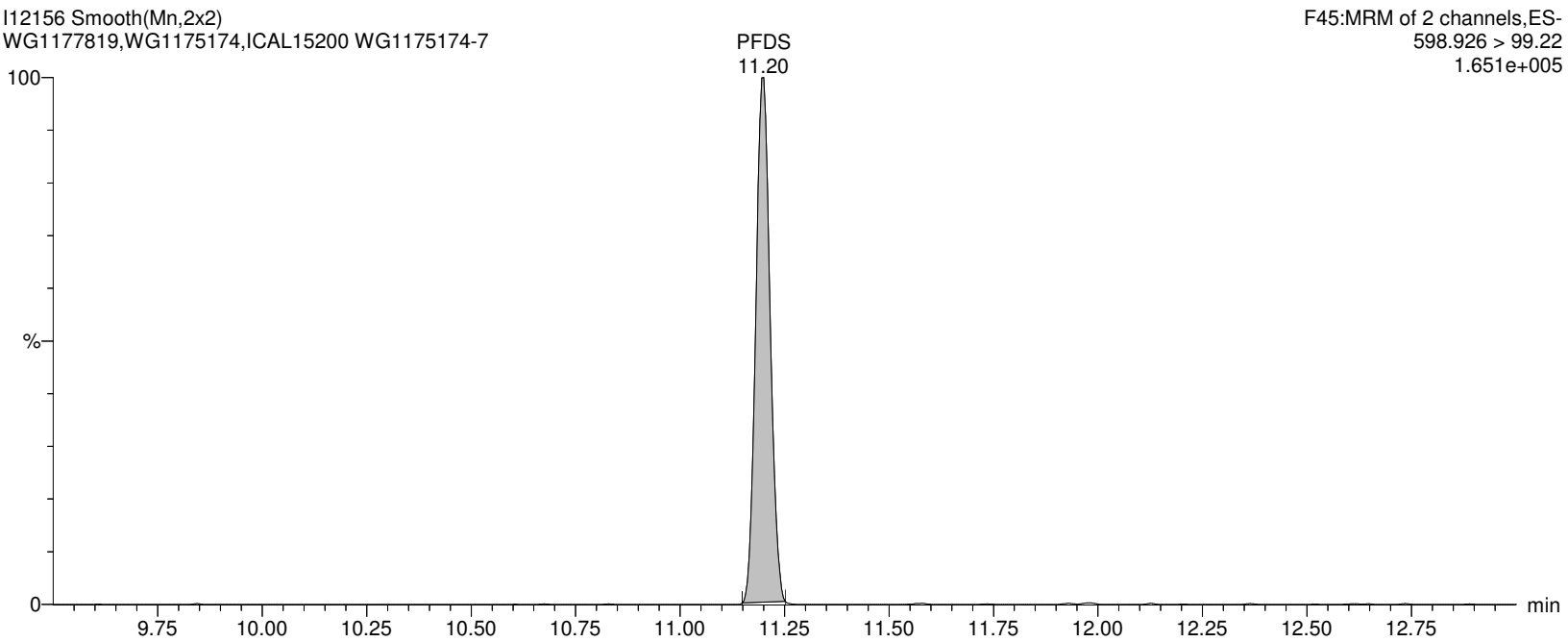

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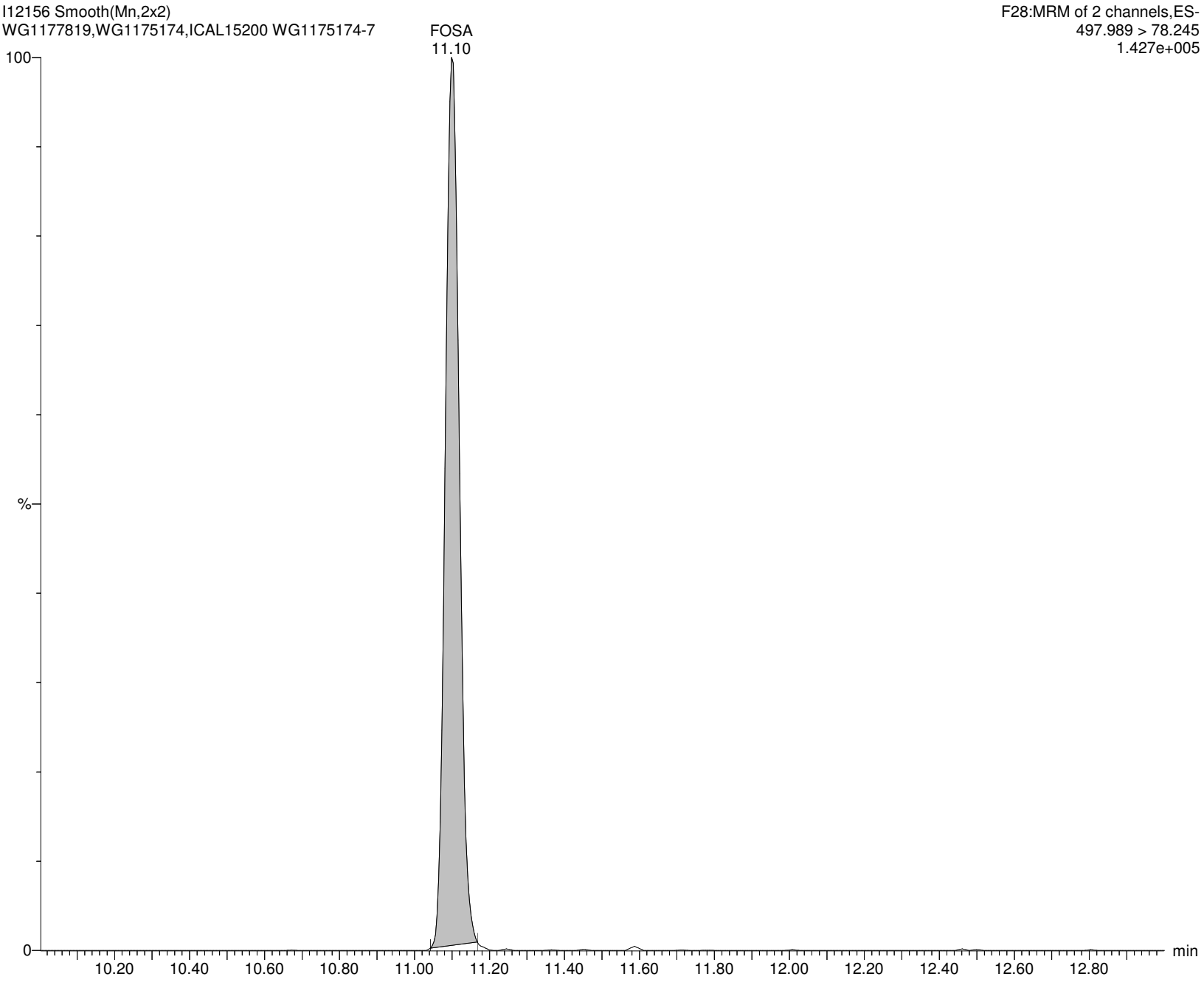

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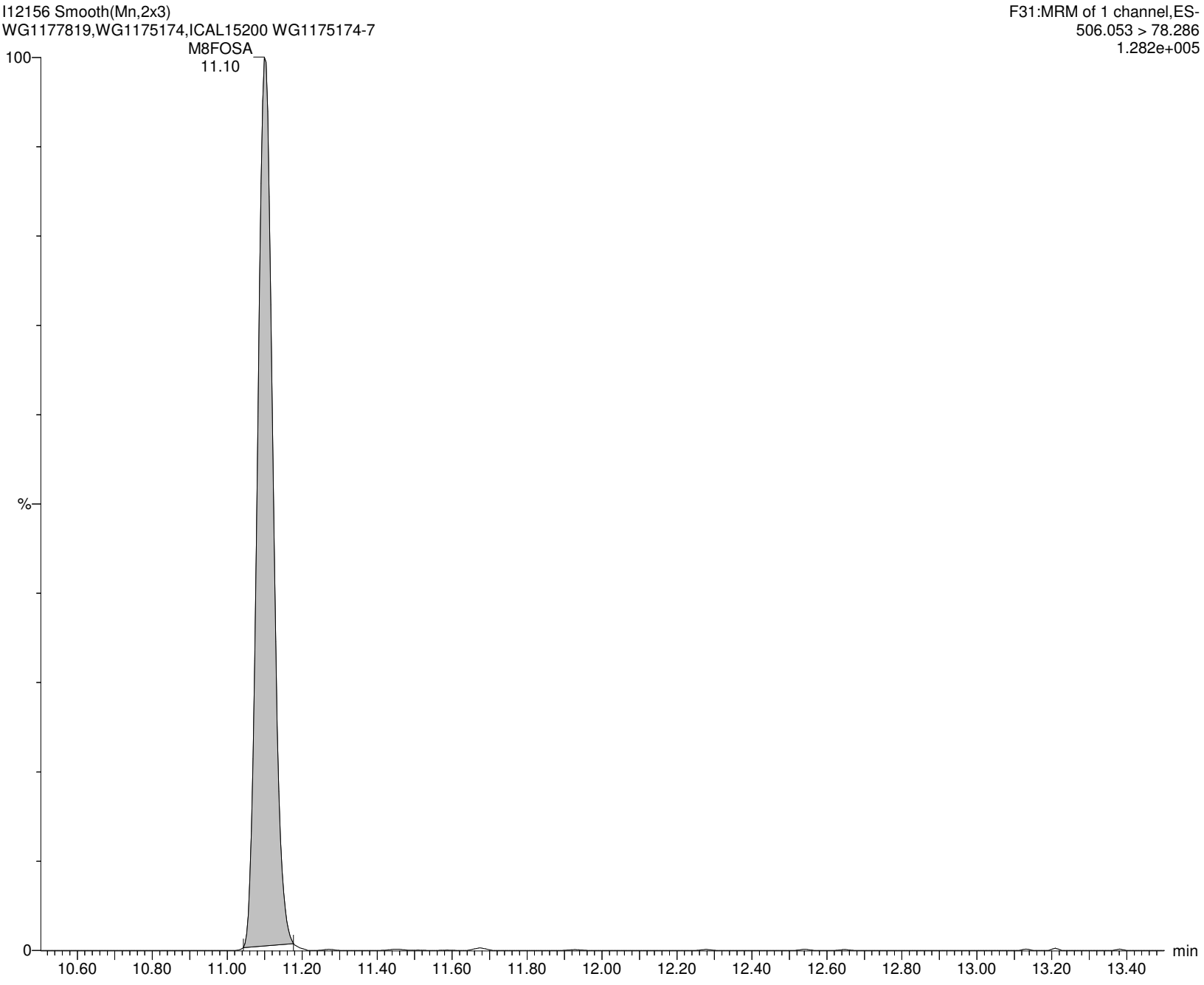
M8FOSA



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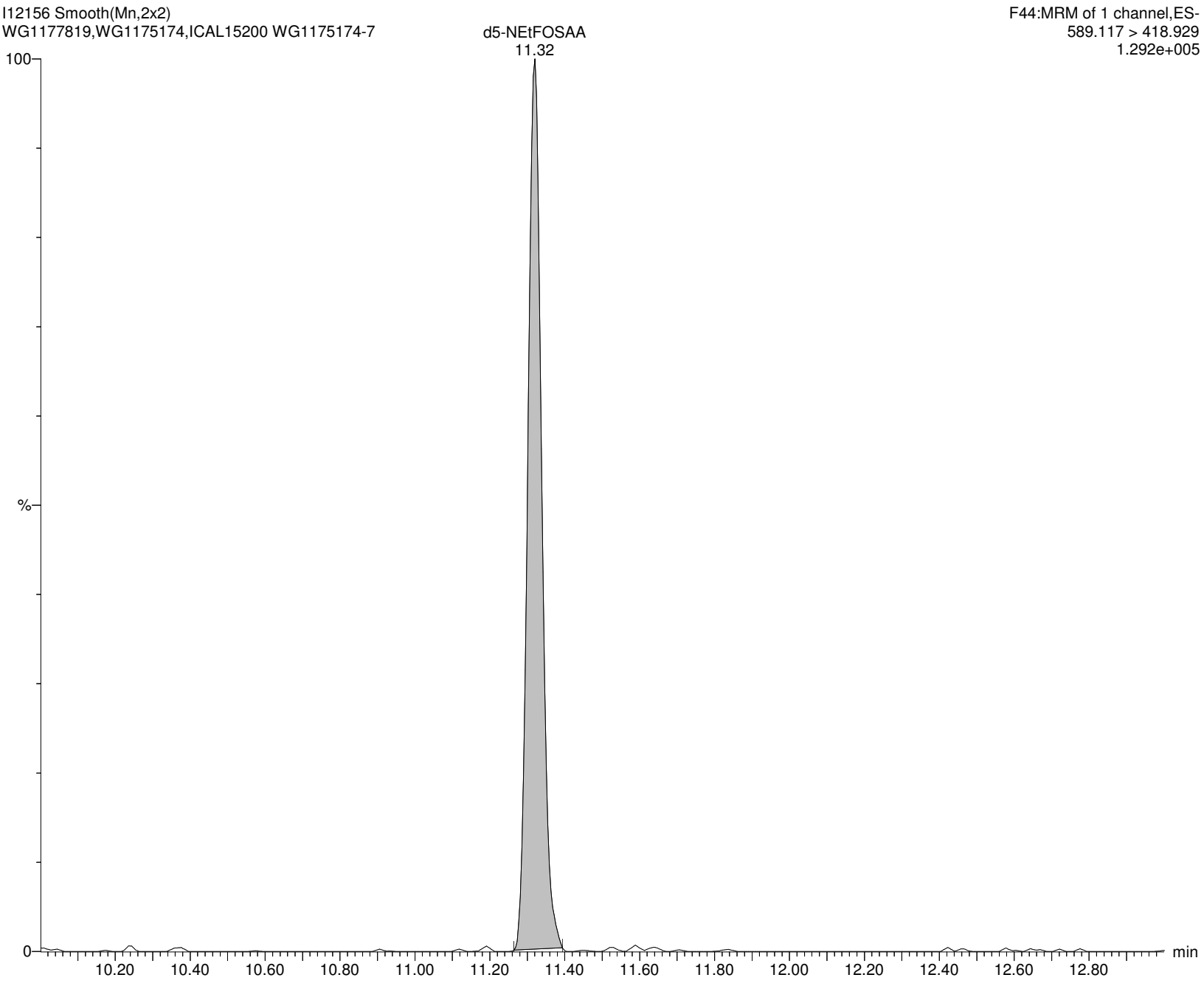
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181109_537ISO.PRO\Data\wg1177819E.qld
Last Altered: Monday, November 12, 2018 13:05:57 Eastern Standard Time
Printed: Monday, November 12, 2018 13:07:00 Eastern Standard Time

Name: I12156
ID: WG1175174-7
Date: 10-Nov-2018
Time: 07:58:12
Description: WG1177819,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 1:D,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181109_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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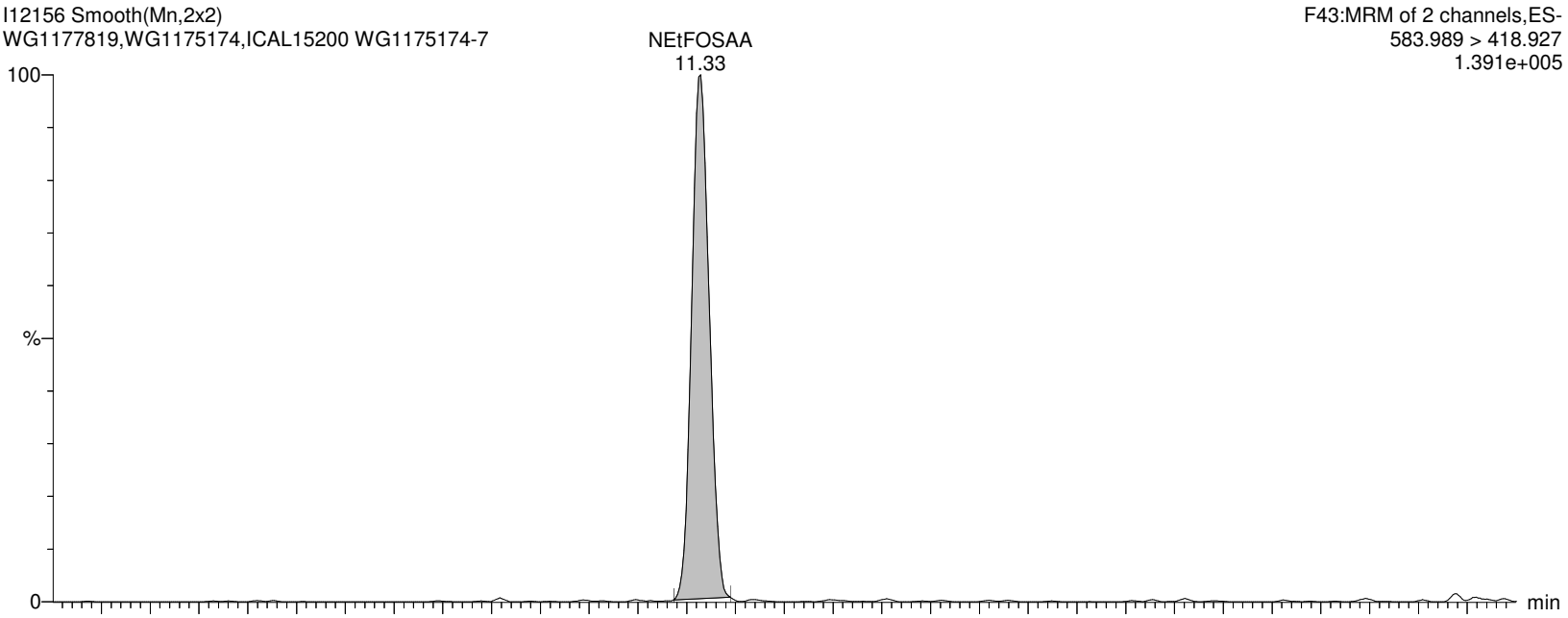

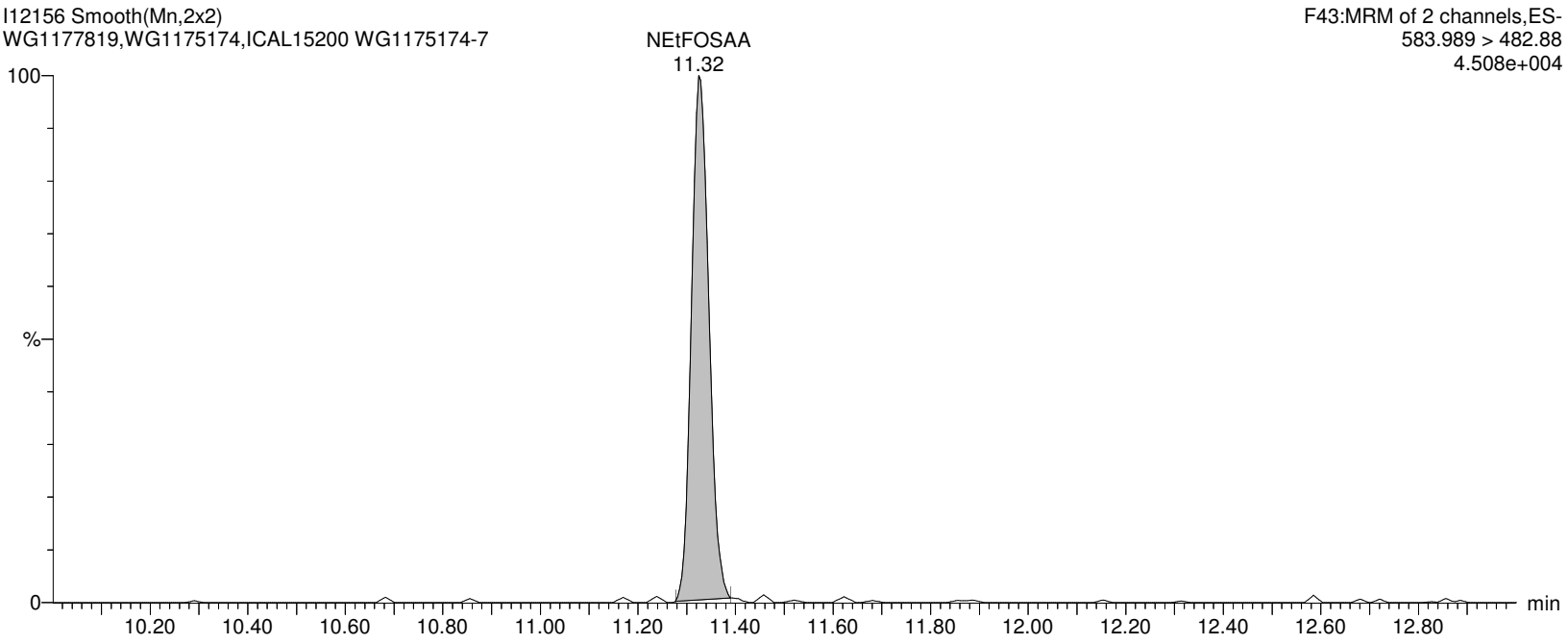

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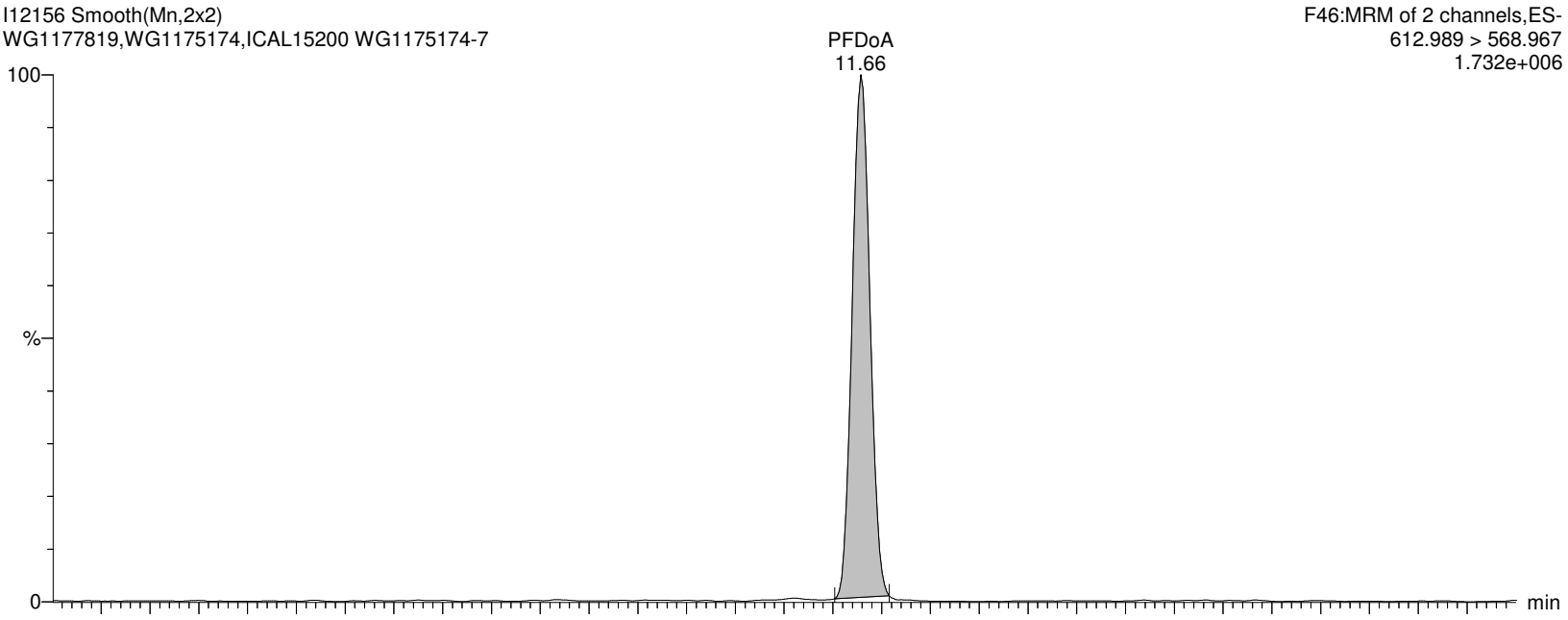

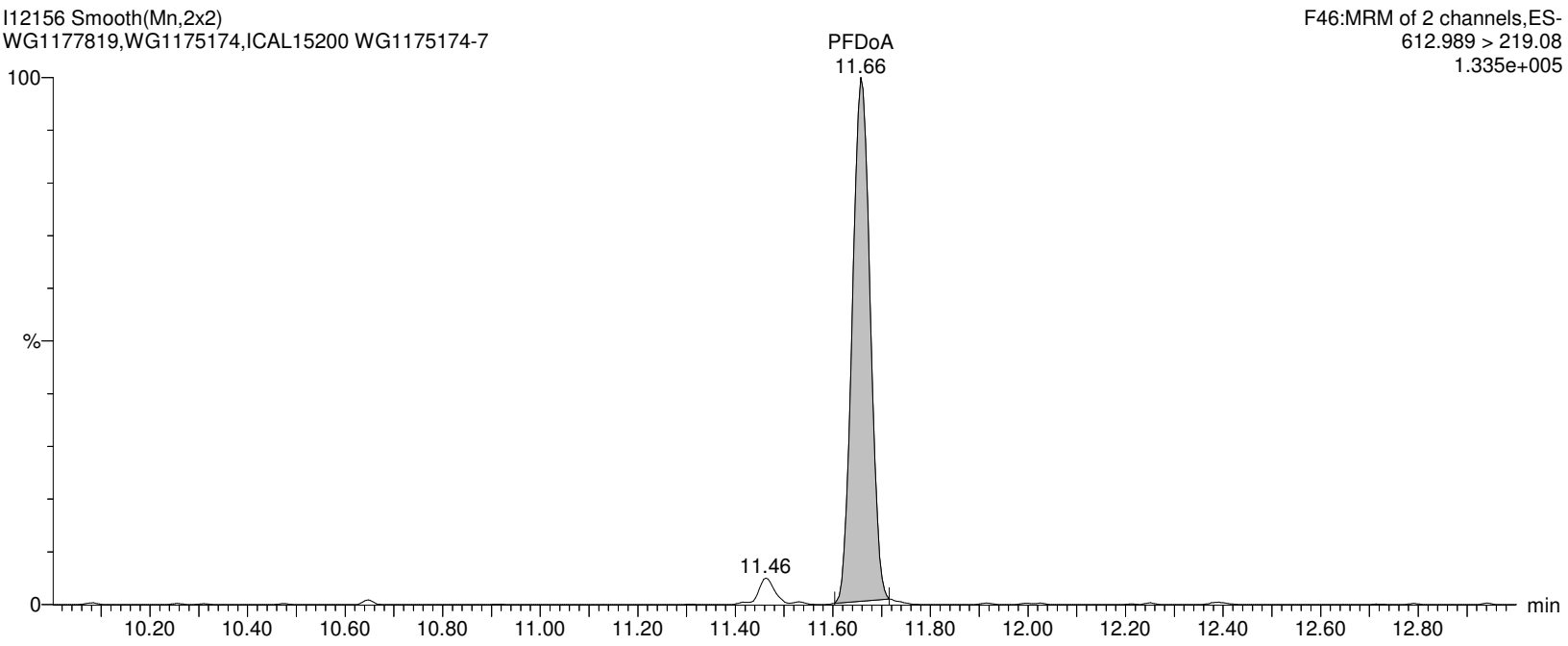

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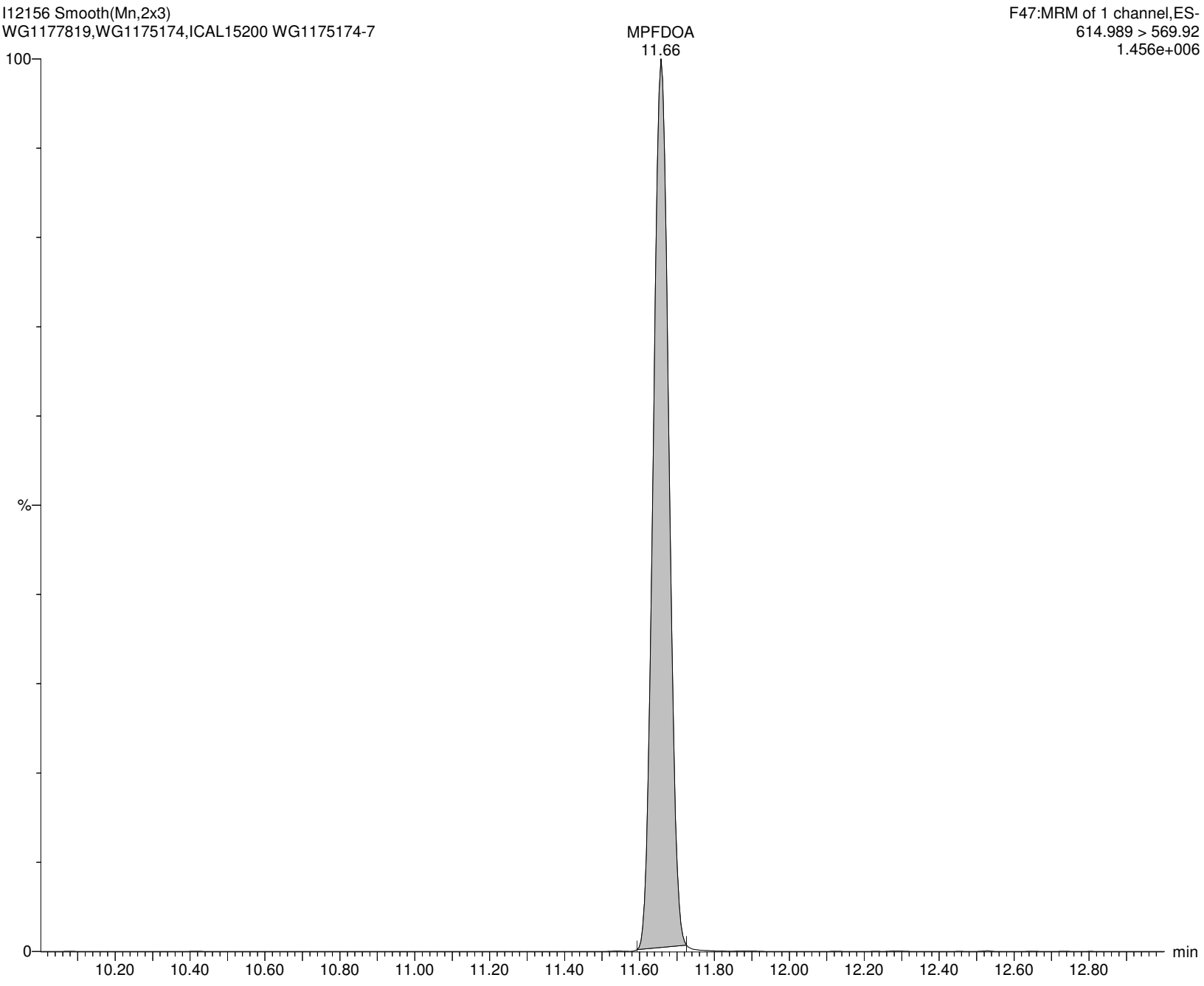

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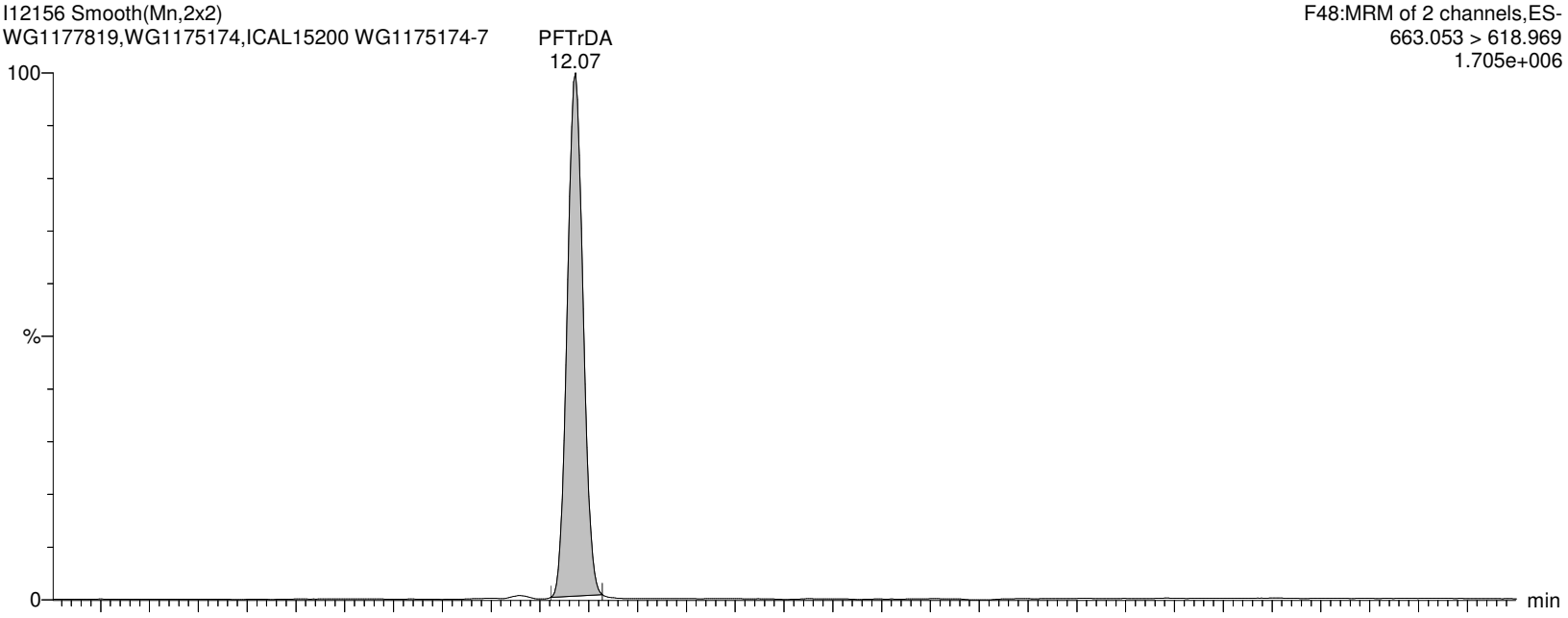

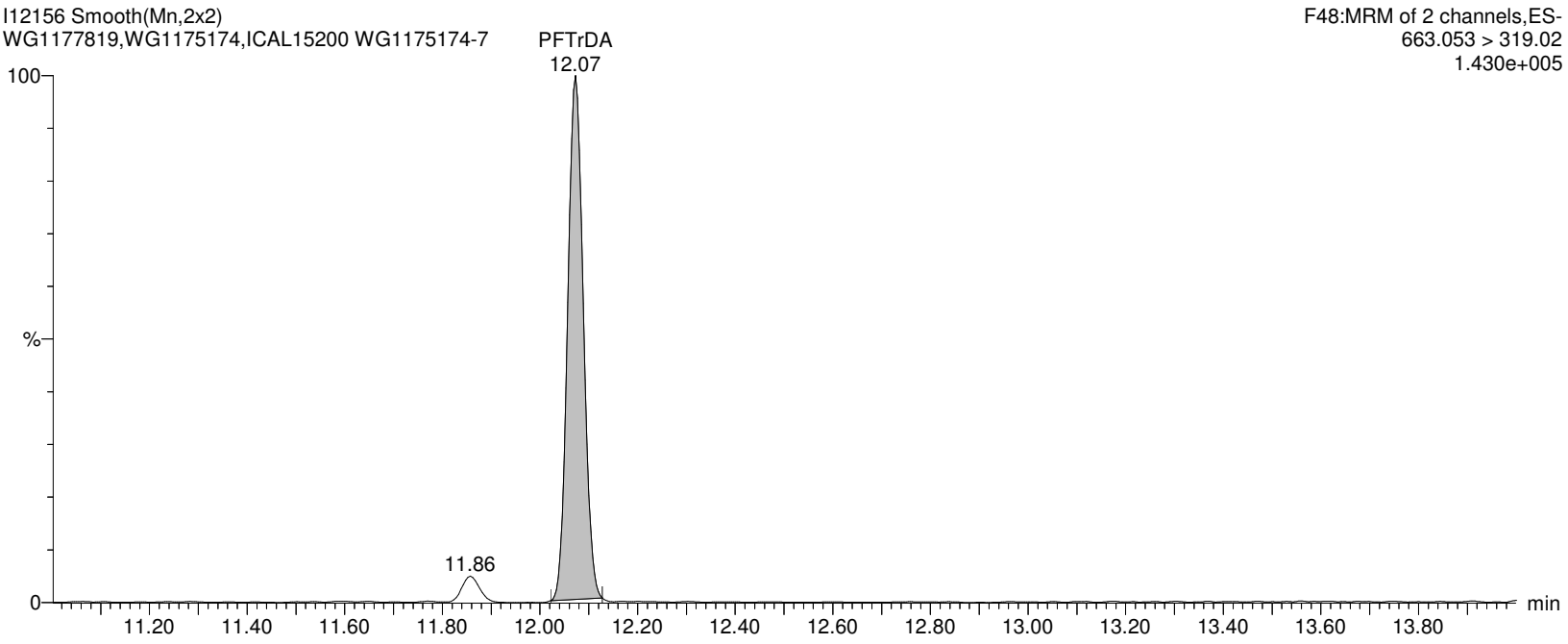

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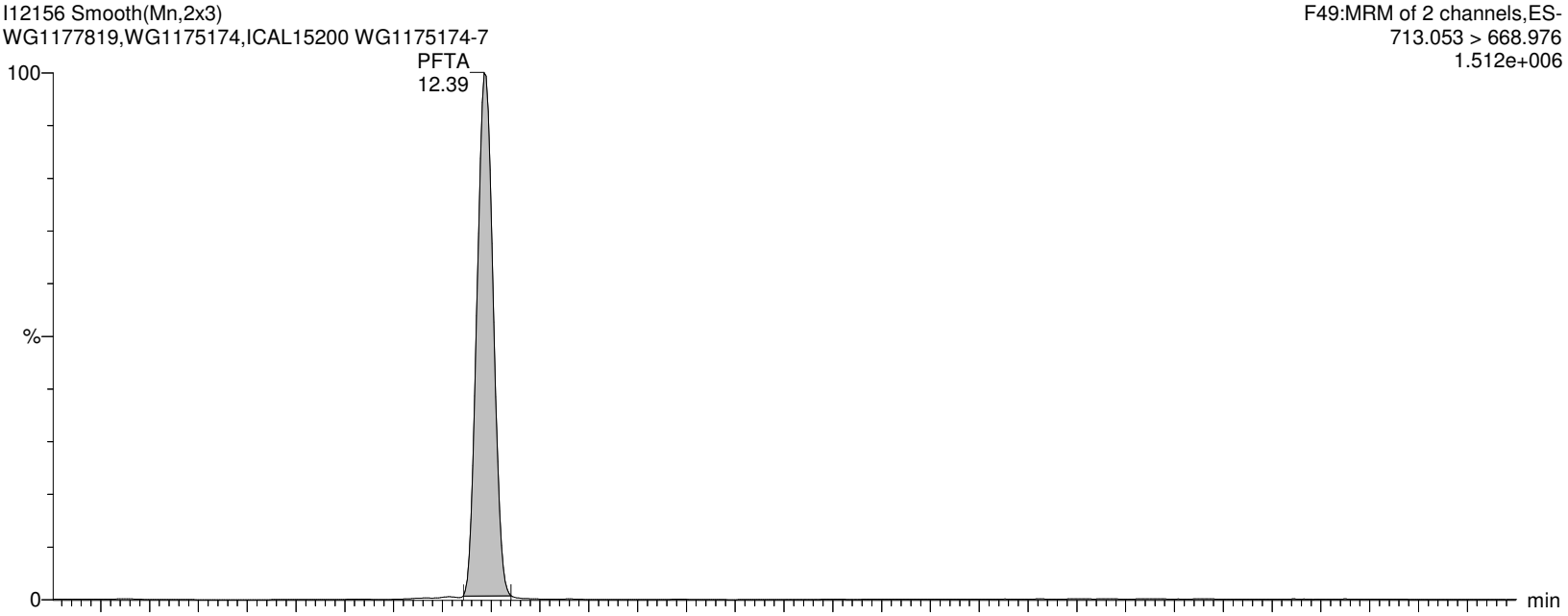

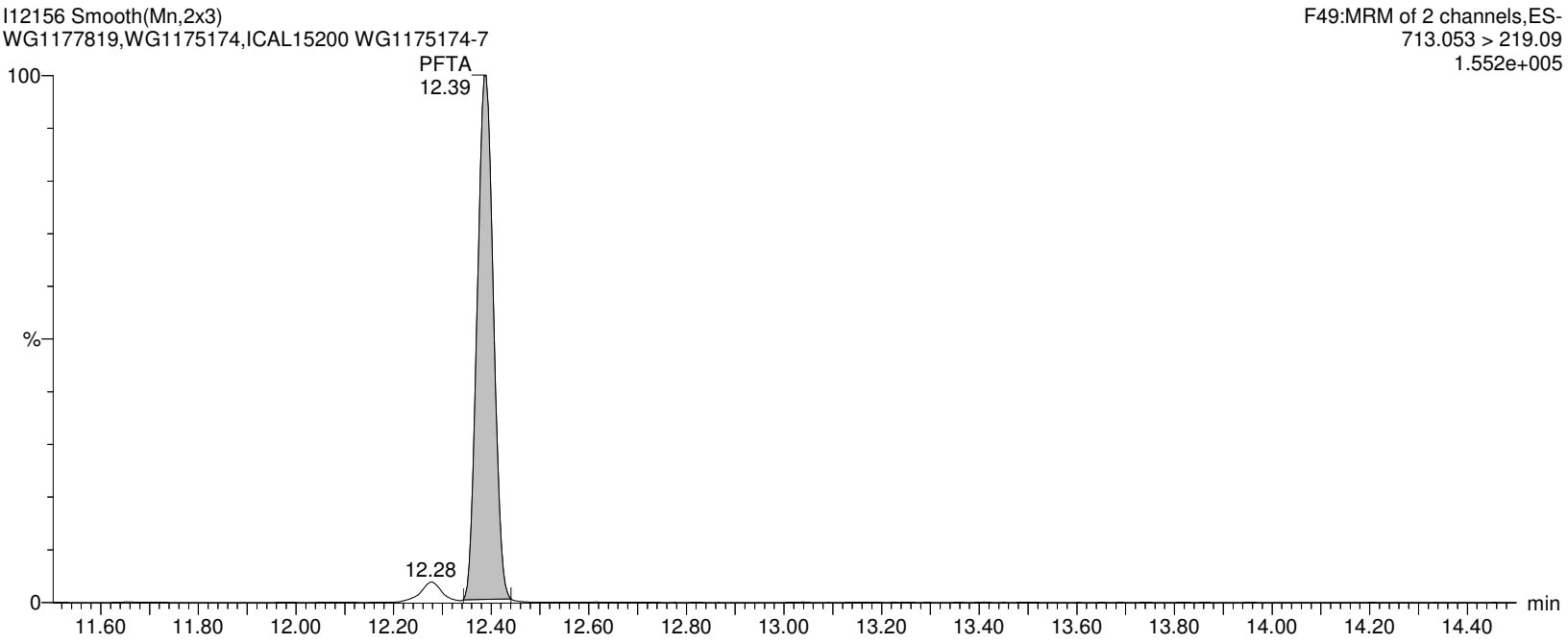

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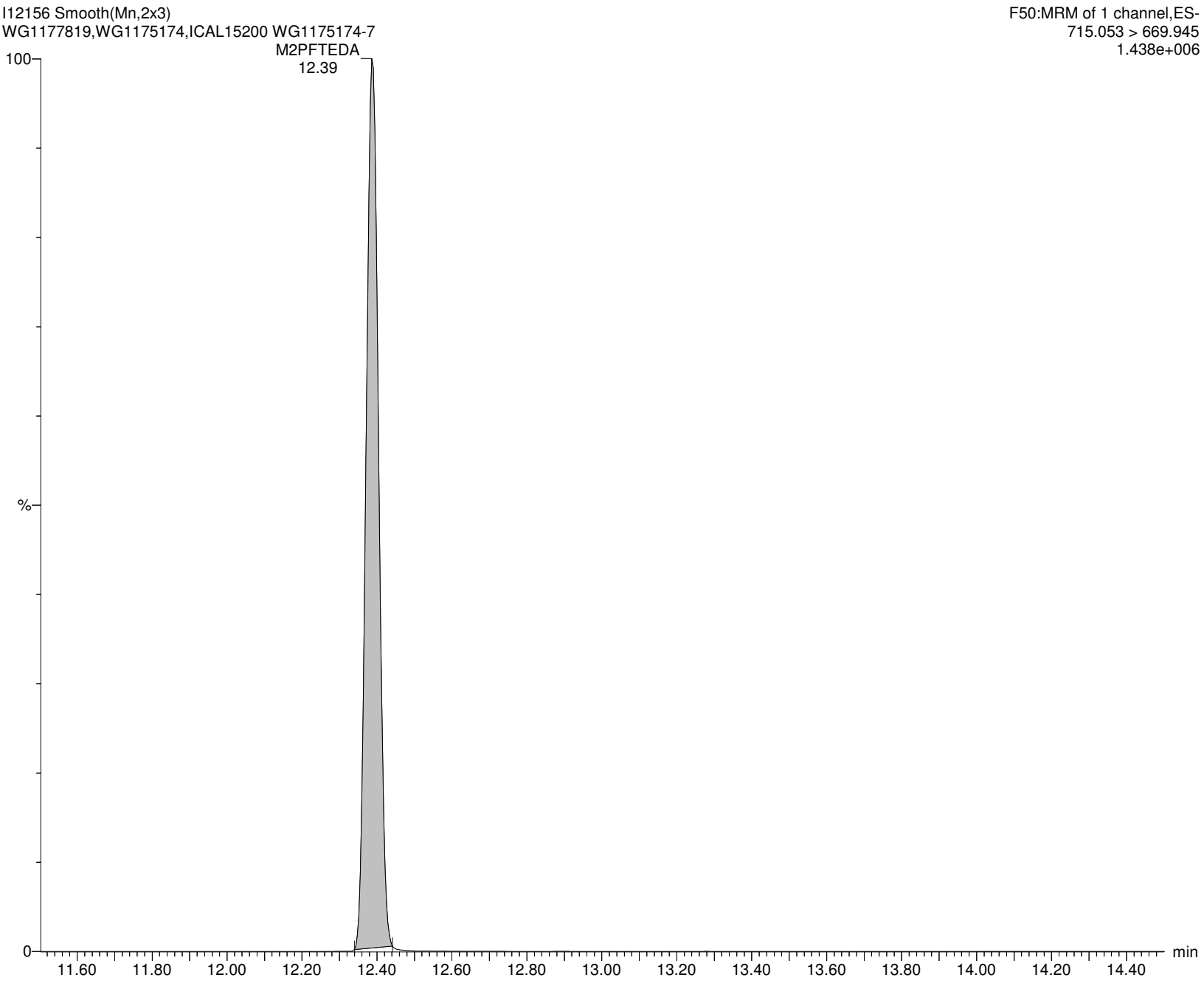

all concentration units in (ng/mL)

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Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:45 Eastern Standard Time

Method: C:\MassLynx\Data\2018\181112_537ISO.PRO\MethDB\537ISO_Q_181101.mdb 08 Nov 2018 14:21:22
Calibration: C:\MassLynx\Data\2018\181112_537ISO.PRO\CurveDB\181101_537ISO_ICAL.cdb 01 Nov 2018 19:29:35

ID: WG1175174-9R
Name: I12207
Date: 12-Nov-2018
Time: 19:51:42
Description: WG1178410,WG1175174,ICAL15200
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.02	212.926 > 169.111	82363		22.061		na	
2	M3PFBA	INT STD	2.02	215.926 > 172.122	44270		4.783		na	47.8
3	MPFBA	INT STD	2.02	216.926 > 172.137	42709		10.156		na	101.6
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	120050		25.347		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	50254		9.261		na	92.6
6	PFBS	375-73-5	5.66	298.989 > 80.295	14466		14.912		na	
7	M3PFBS	INT STD	5.66	301.989 > 80.254	10942		8.614		na	86.1
8	4:2FTS	757124-72-4	6.83	326.926 > 306.957	12020		10.493	1.94	YES	
9	M2-4:2FTS	INT STD	6.84	329.117 > 309.079	11629		14.759		na	147.6
10	PFHxA	307-24-4	6.91	312.989 > 269.028	226474		33.641	19.51	NO	
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	69370		7.199		na	72.0
12	PFPeS	2706-91-4	7.24	348.926 > 80.251	19880		14.311	2.08	NO	
13	PFHpA	375-85-9	8.18	362.926 > 319.014	457905		43.168	5.33	NO	
14	M4PFHpA	INT STD	8.18	366.926 > 321.979	107749		9.510		na	95.1
15	br-PFHxS	355-46-4	8.11	398.926 > 80.295	8459		6.474	2.07	NO	
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	51284		45.298	1.49	NO	
17	PFHxS	355-46-4		398.926 > 80.295	59743		51.773		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	8029		11.380		na	113.8
19	br-PFOA	335-67-1	8.90	412.989 > 368.9	97650		9.082	2.31	YES	
20	L-PFOA	335-67-1	9.12	412.989 > 368.9	496241		46.155	9.30	NO	
21	M2PFOA	INT STD	9.12	415.032 > 369.968	133753		7.084		na	70.8
22	PFOA	335-67-1		412.989 > 368.9	593890		55.237		na	
23	M8PFOA	INT STD	9.12	420.989 > 375.979	110202		10.217		na	102.2
24	6:2FTS	27619-97-2	9.08	426.989 > 406.921	12155		16.228		na	
25	M2-6:2FTS	INT STD	9.08	428.989 > 408.917	7814		11.947		na	119.5
26	PFHpS	375-92-8	9.22	448.926 > 80.257	8556		14.426	0.88	YES	
27	PFNA	375-95-1	9.87	462.989 > 418.931	114167		12.458	4.54	NO	
28	M9PFNA	INT STD	9.87	472.053 > 426.947	109722		10.199		na	102.0
29	br-PFOS	1763-23-1	9.68	498.989 > 80.294	94112		67.037	4.57	YES	
30	L-PFOS	1763-23-1	9.92	498.989 > 80.294	110898		110.849	1.71	YES	
31	PFOS	1763-23-1		498.989 > 80.294	205010		177.886		na	
32	M4PFOS	INT STD	9.92	503.032 > 80.306	10190		6.290		na	62.9
33	M8PFOS	INT STD	9.92	507.053 > 80.294	9579		10.080		na	100.8
34	PFDA	335-76-2	10.50	513.053 > 468.906	116686		12.227	6.15	NO	
35	M2PFDA	INT STD	10.50	515.053 > 469.934	118439		7.967		na	79.7
36	M6PFDA	INT STD	10.50	519.053 > 473.931	107582		10.060		na	100.6
37	8:2FTS	39108-34-4	10.49	526.989 > 506.946	5747		11.435		na	
38	M2-8:2FTS	INT STD	10.49	529.053 > 508.945	4195		10.922		na	109.2
39	PFNS	68259-12-1	10.52	548.989 > 80.249	9593		9.506	1.29	NO	

all concentration units in (ng/mL)

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	8661		7.512		na	75.1
41	NMeFOSAA	2355-31-9	10.90	570.053 > 418.917	8664		9.946		na	
42	PFUnA	2058-94-8	11.04	562.989 > 518.903	101278		9.735	7.13	NO	
43	M7-PFUDA	INT STD	11.04	570.053 > 524.923	104710		11.698		na	117.0
44	PFDS	335-77-3	11.06	598.926 > 80.314	7797		8.456	1.15	NO	
45	FOSA	754-91-6	10.99	497.989 > 78.245	11132		11.755		na	
46	M8FOSA	INT STD	10.99	506.053 > 78.286	9682		2.538		na	25.4
47	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	11258		10.124		na	101.2
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	13153		11.427	2.37	YES	
49	PFDoA	307-55-1	11.54	612.989 > 568.967	91601		10.702	13.90	NO	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	91786		9.127		na	91.3
51	PFTrDA	72629-94-8	11.95	663.053 > 618.969	70796		9.836	12.23	NO	
52	PFTA	376-06-7	12.30	713.053 > 668.976	62660		11.433	9.73	NO	
53	M2PFTEDA	INT STD	12.30	715.053 > 669.945	65274		8.763		na	87.6

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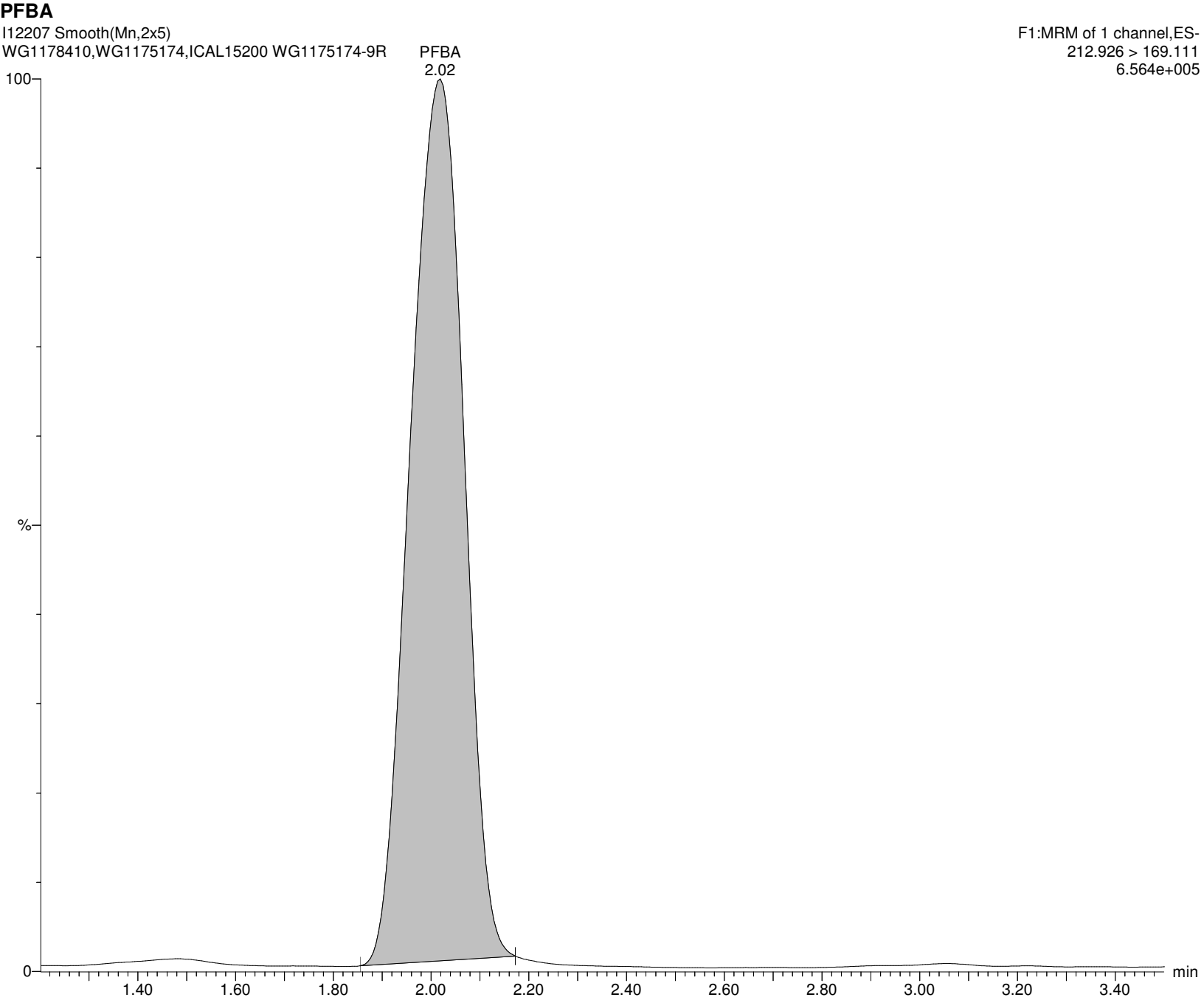

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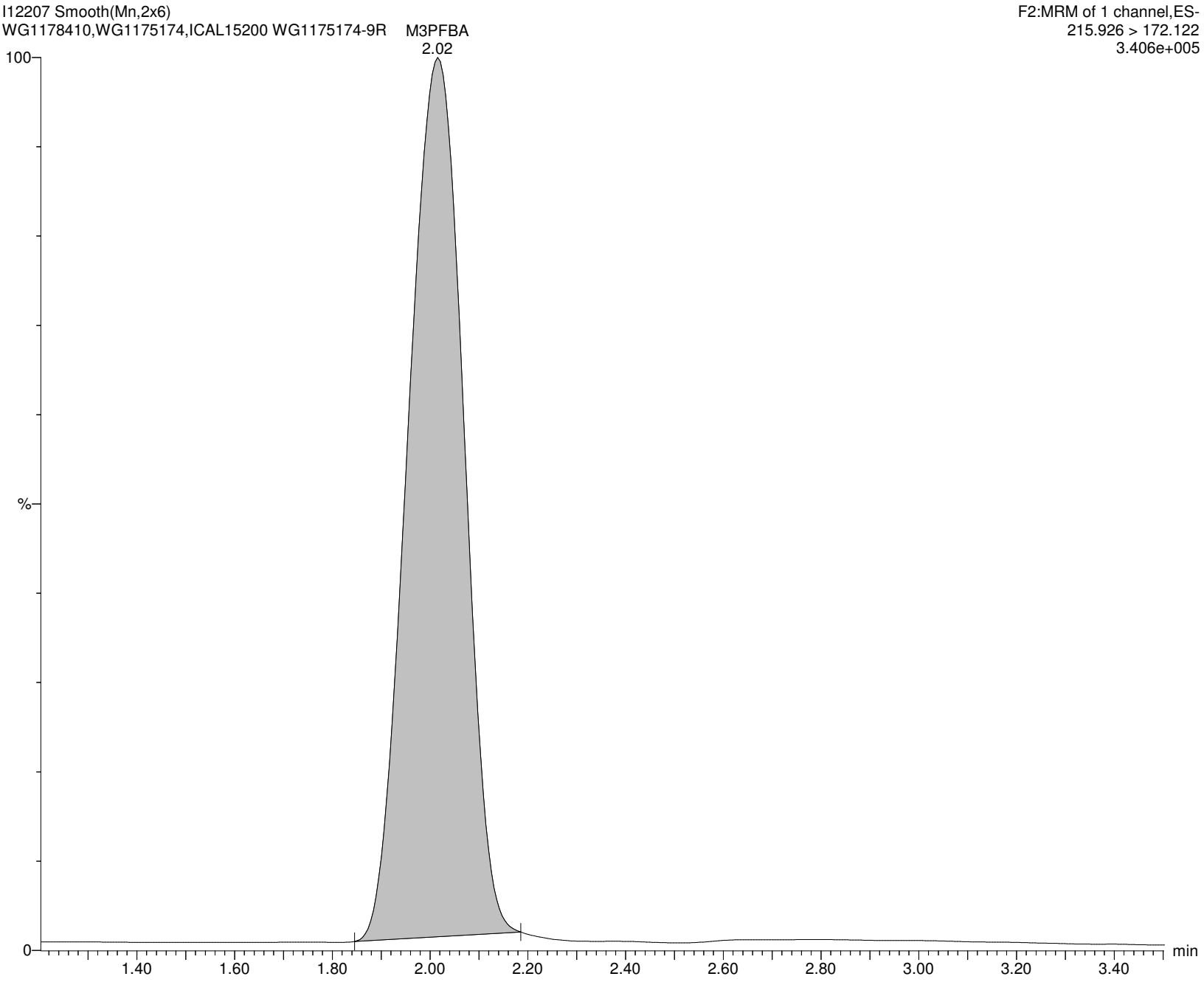

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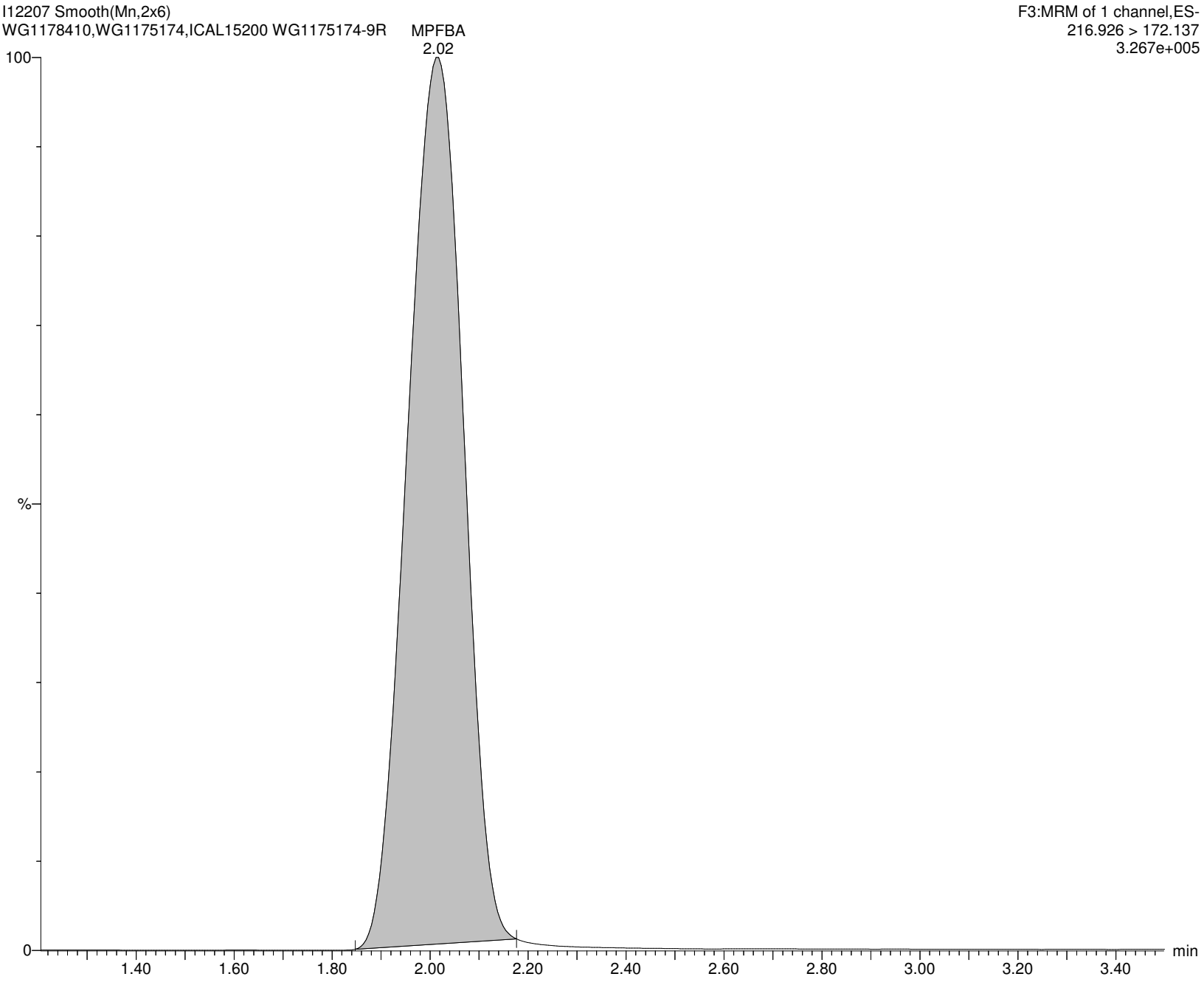

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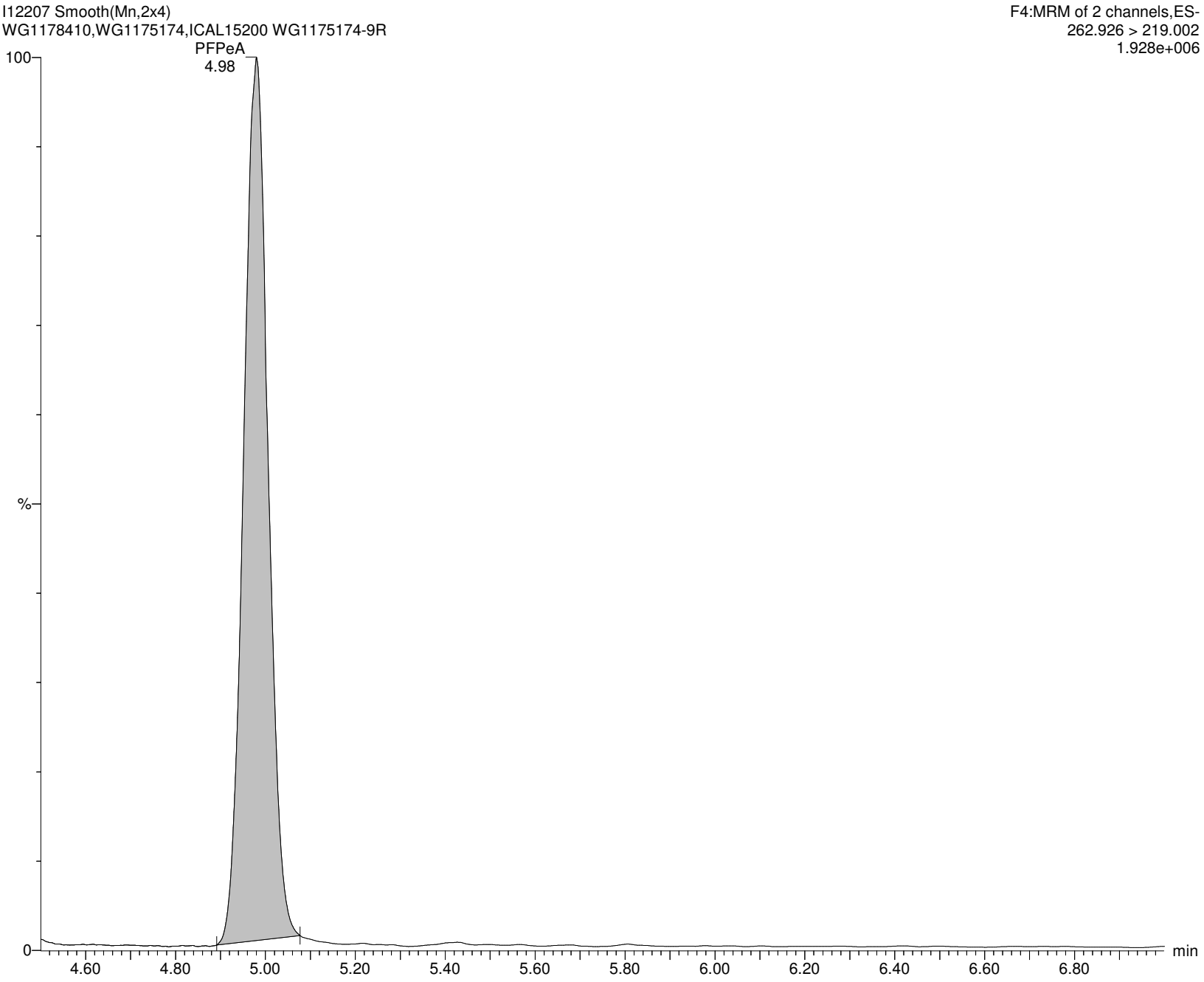

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:45 Eastern Standard Time

Name: I12207
ID: WG1175174-9R
Date: 12-Nov-2018
Time: 19:51:42
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:F,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
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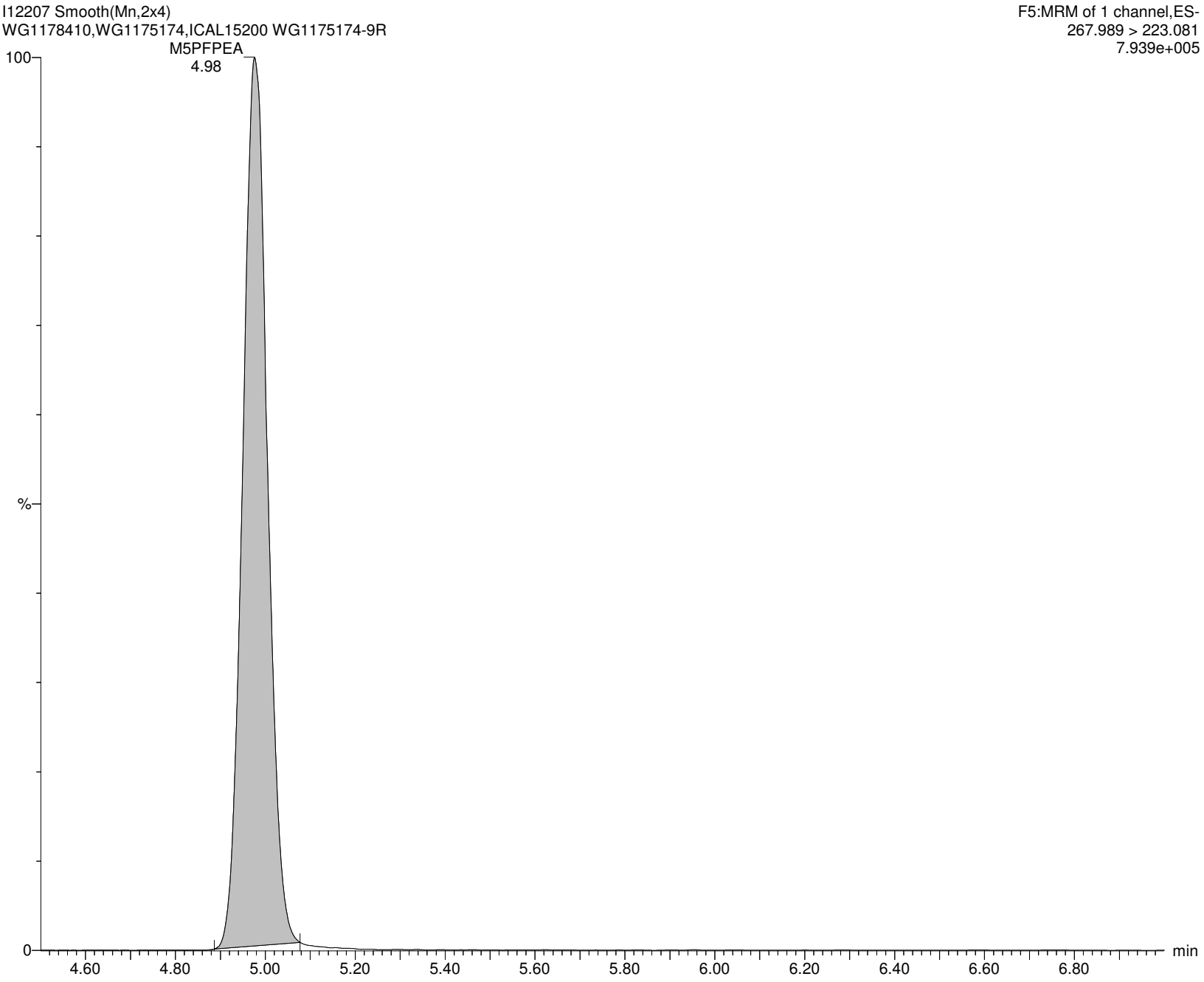

all concentration units in (ng/mL)

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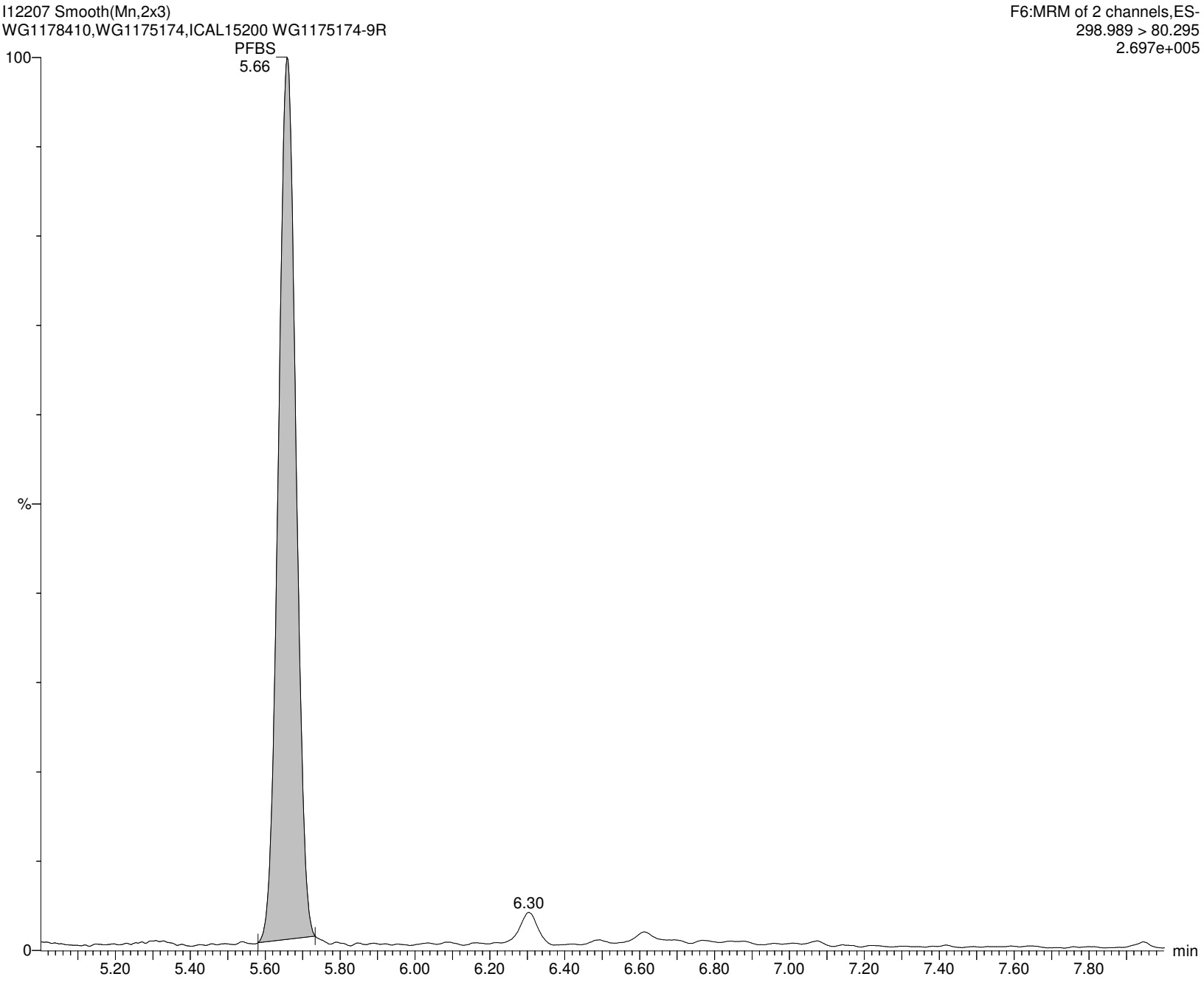

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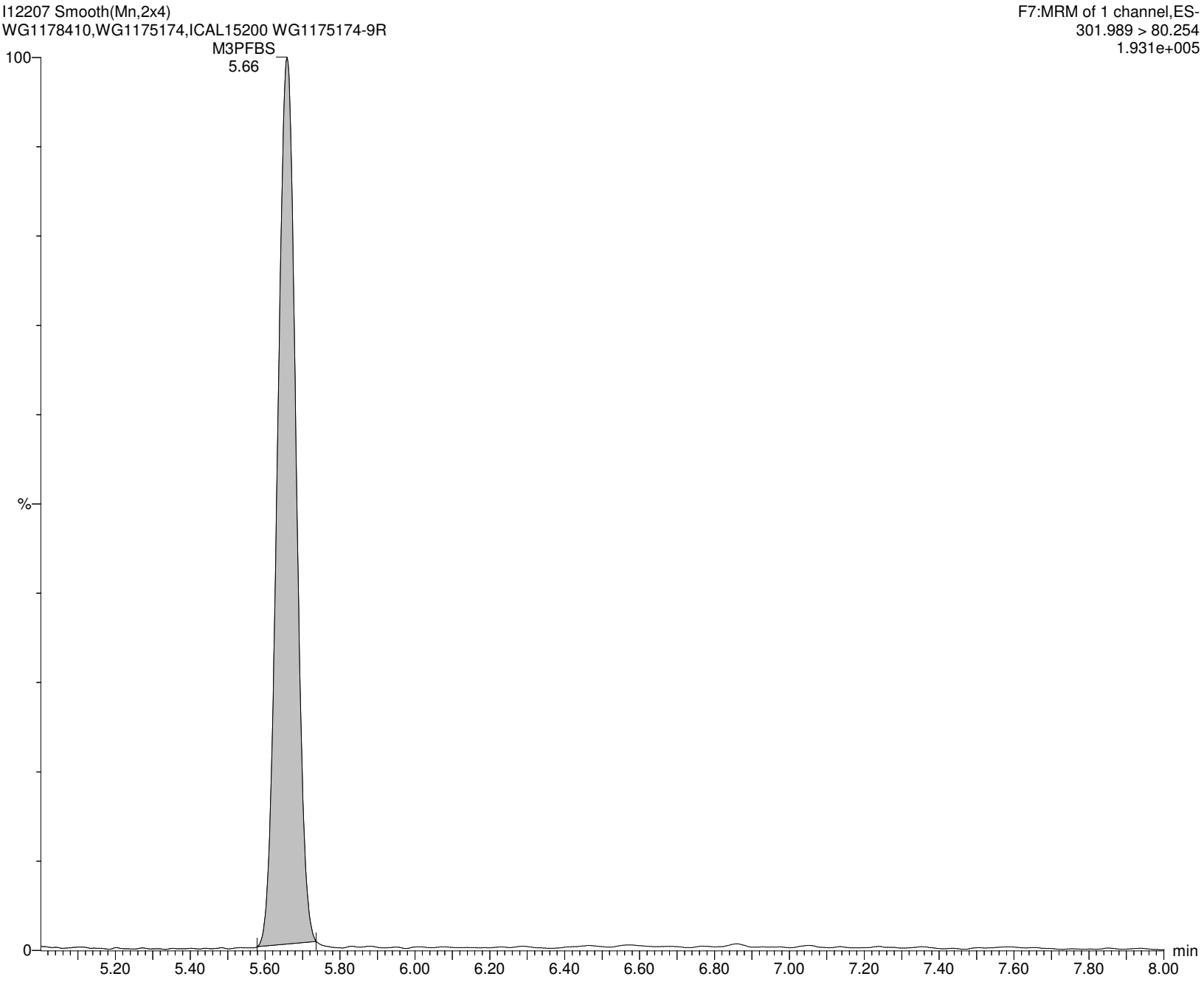

all concentration units in (ng/mL)

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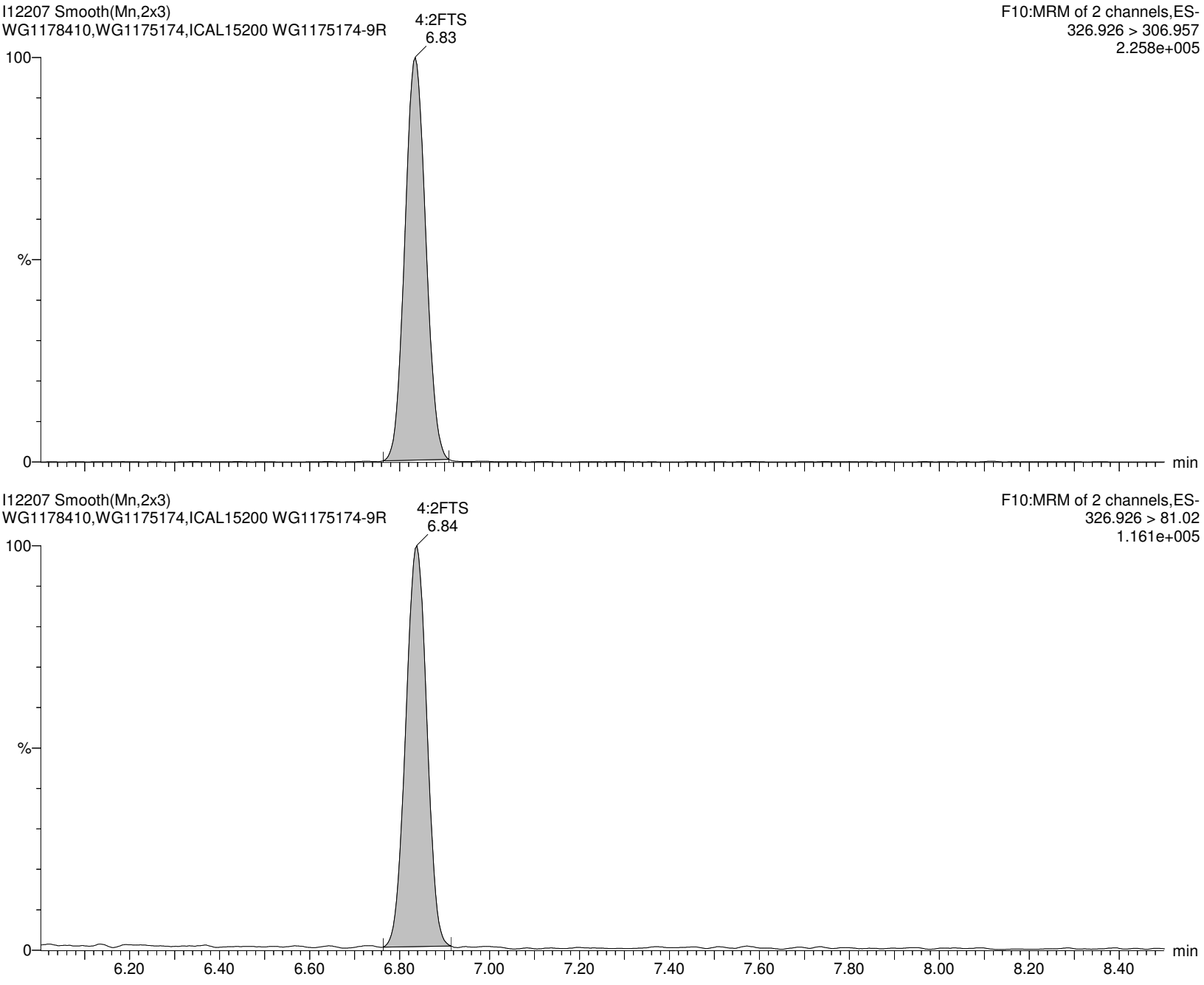

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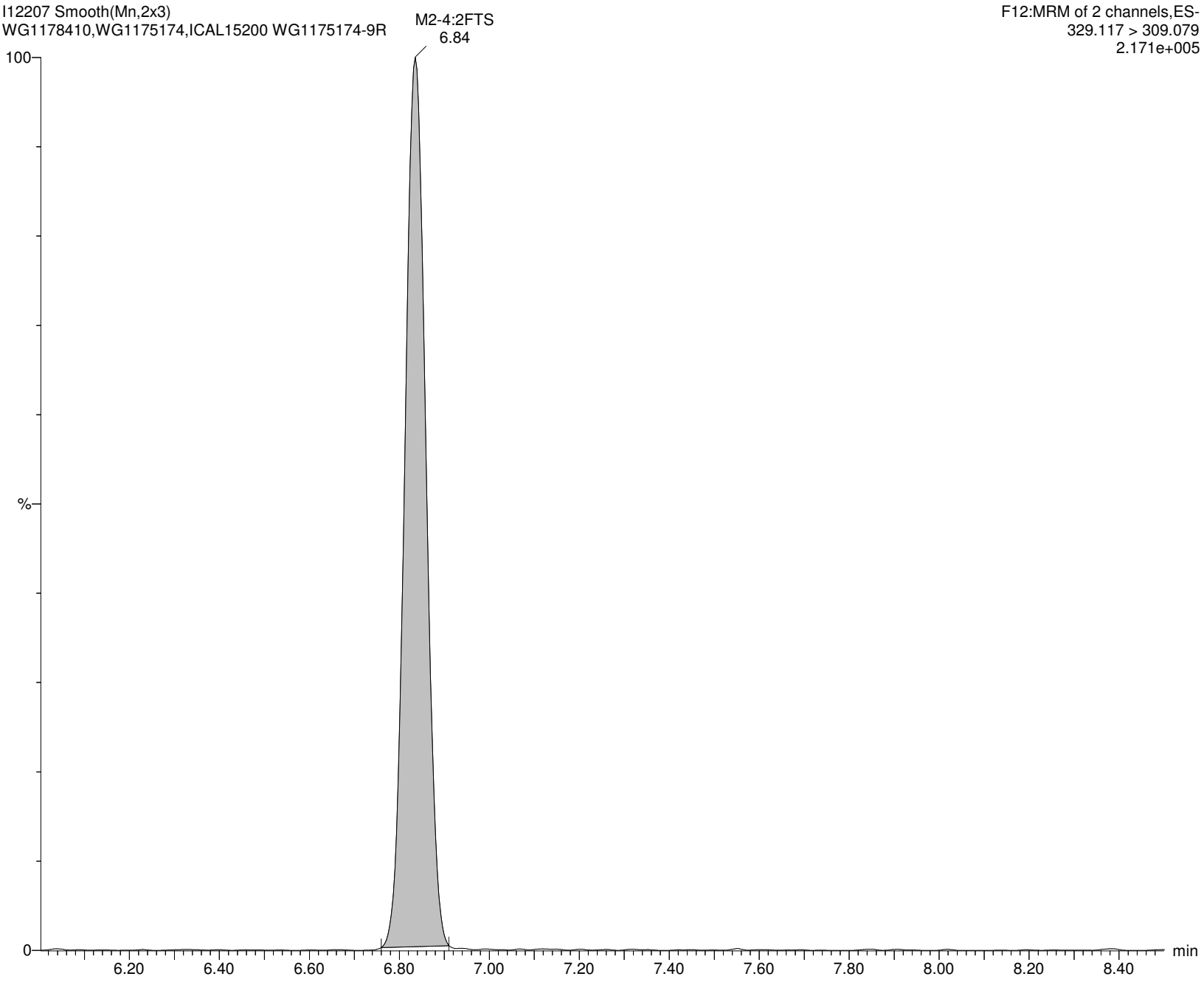

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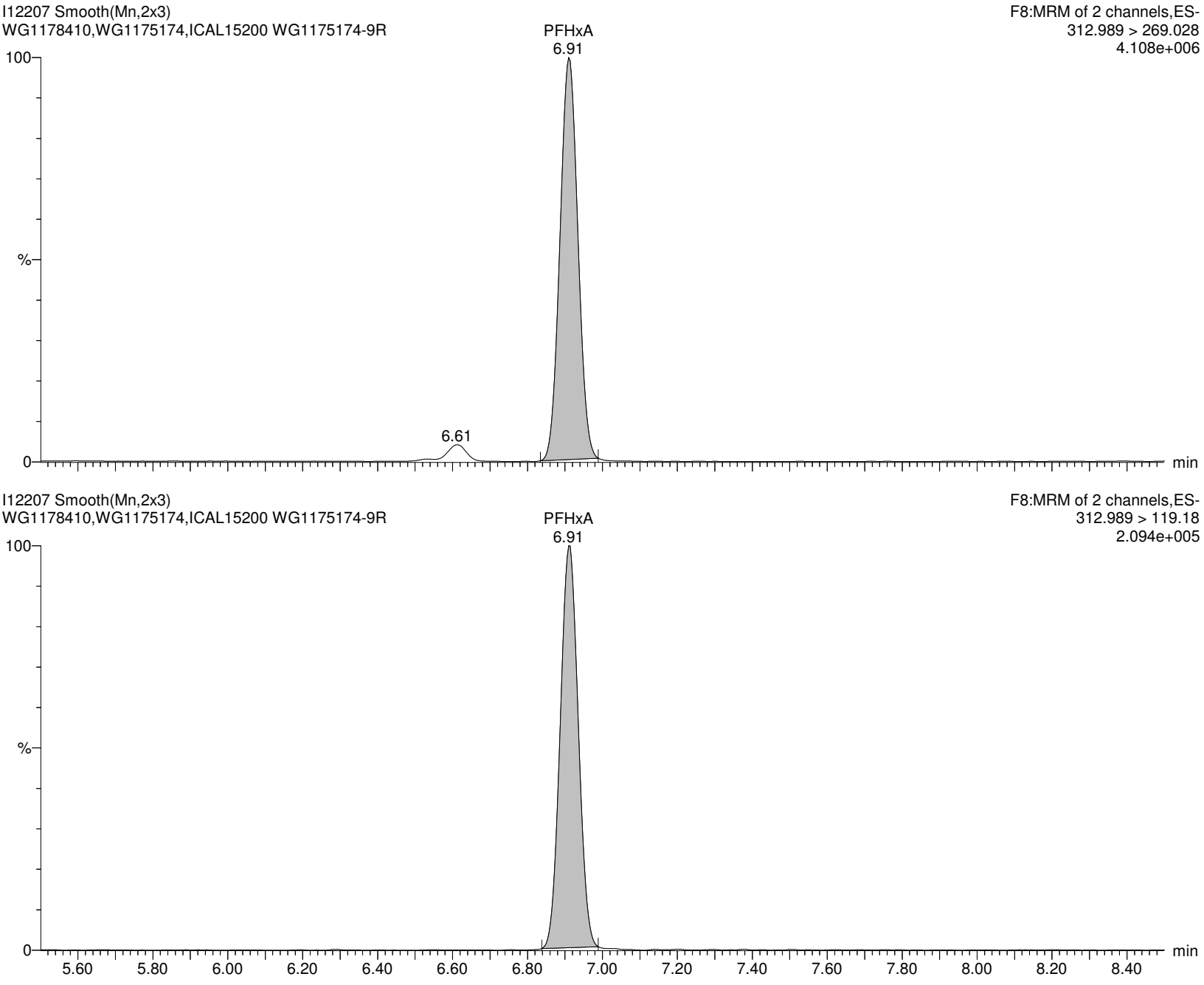

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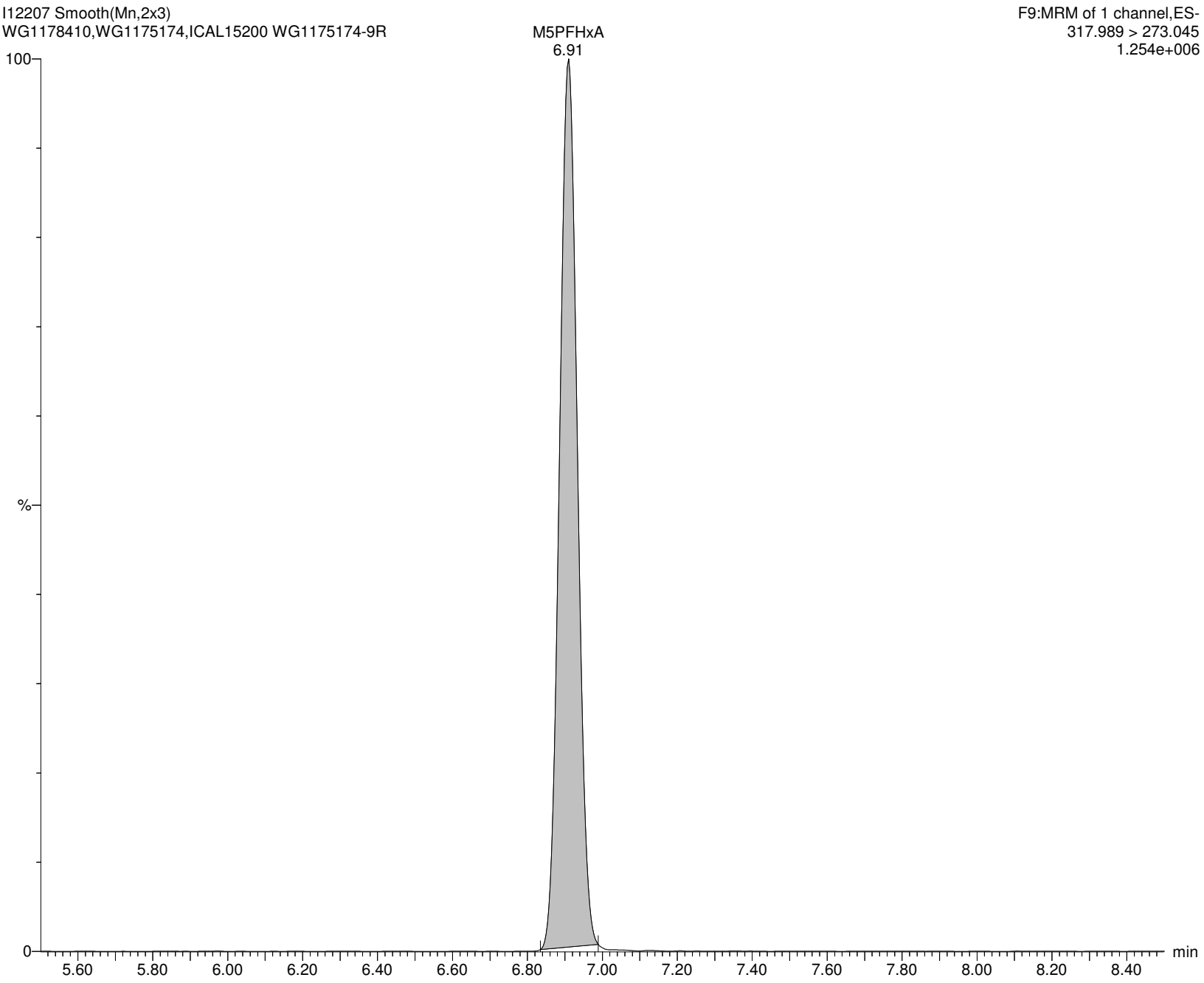

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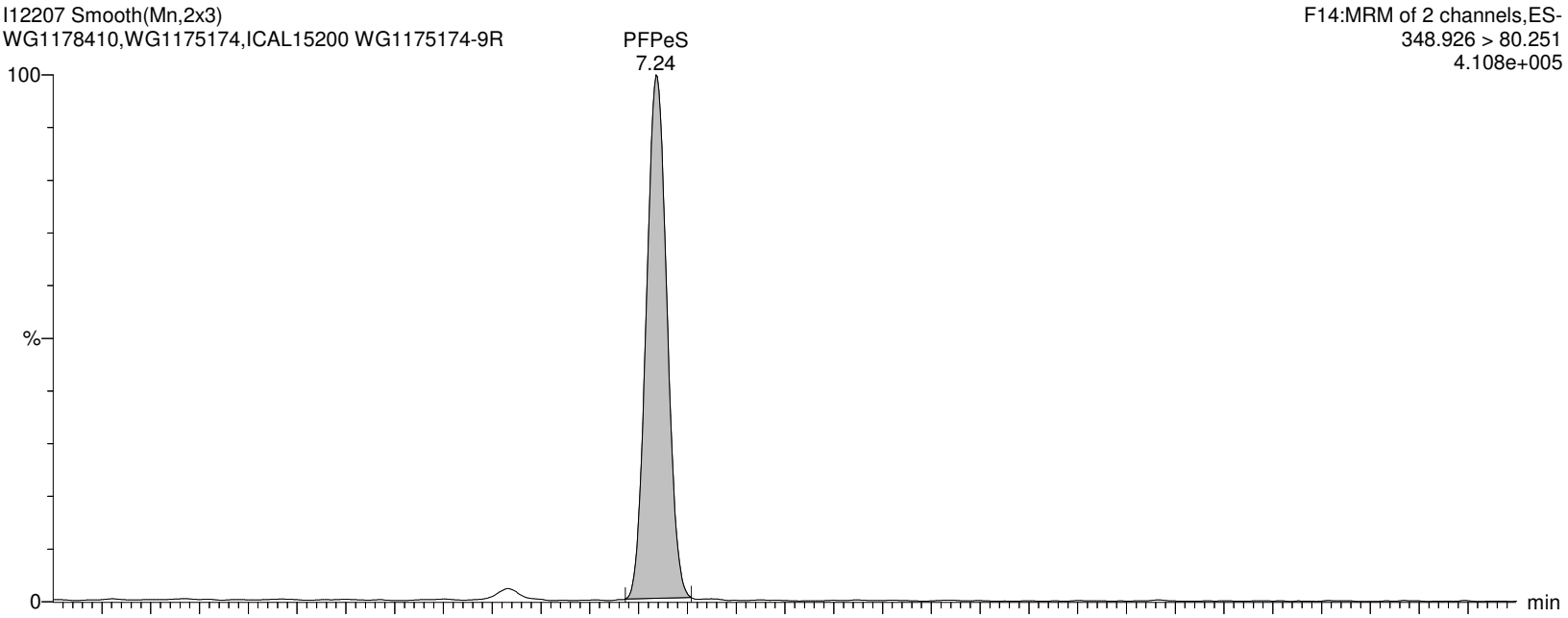

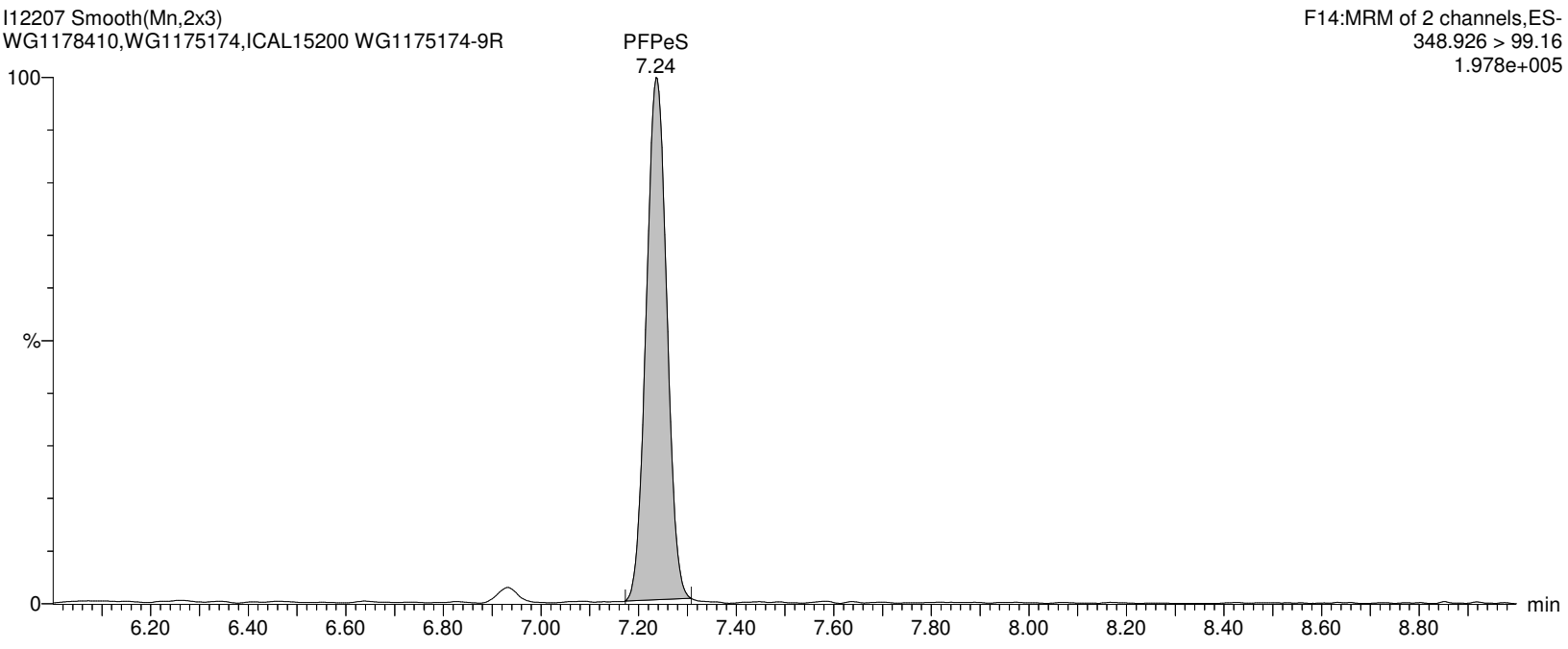

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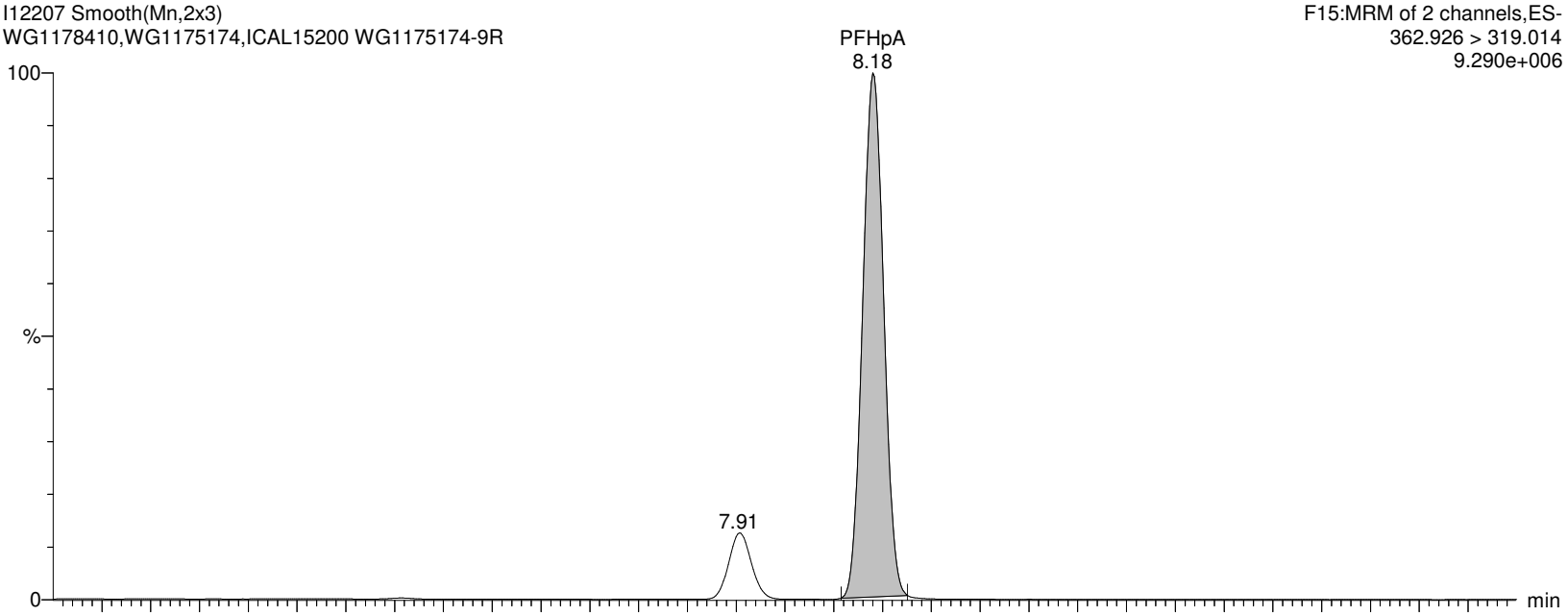

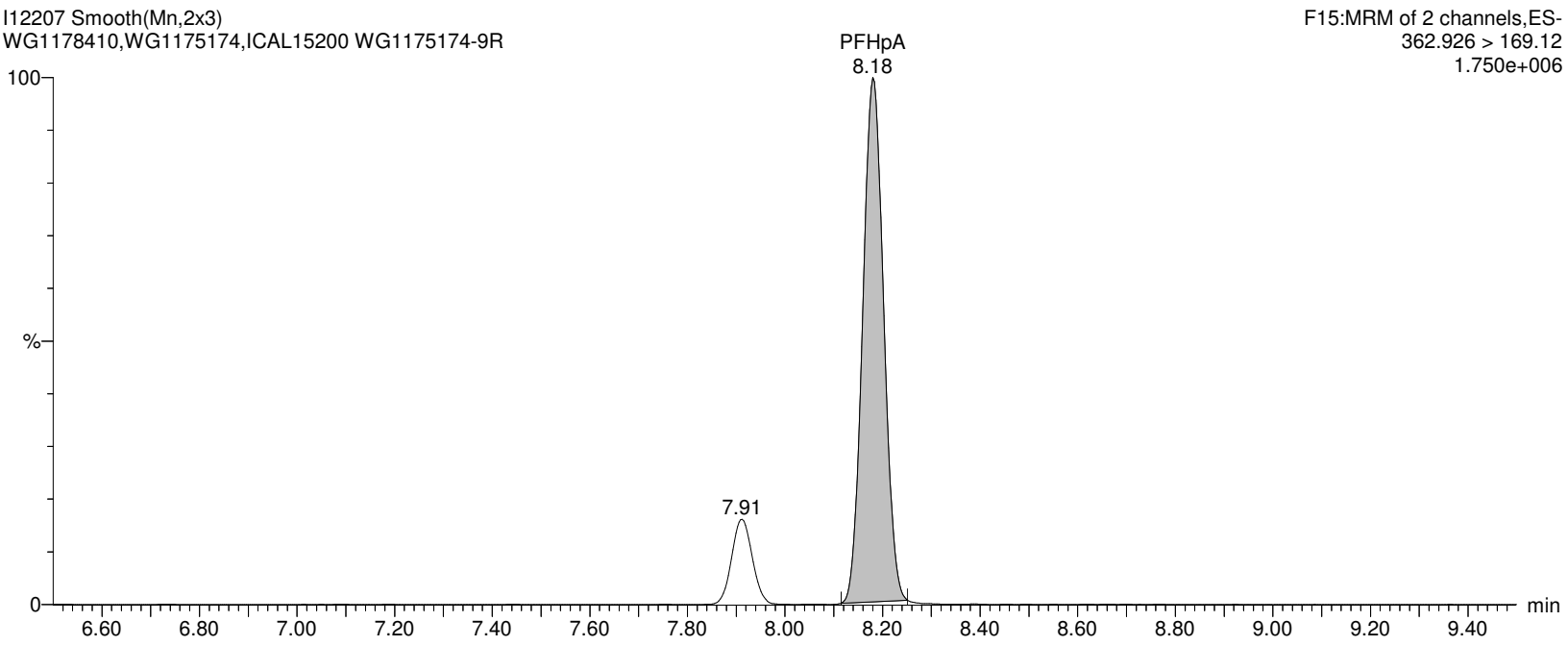

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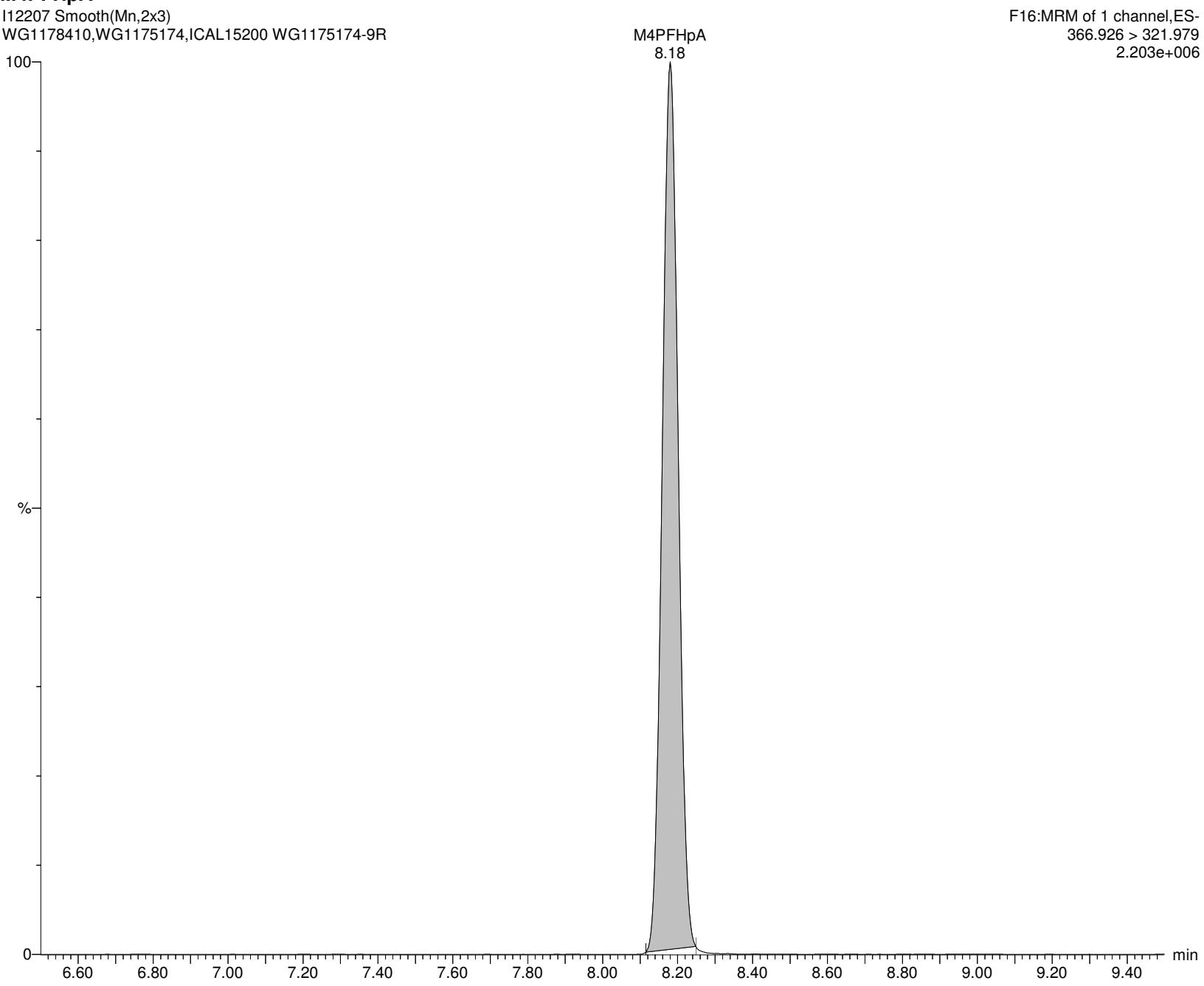

all concentration units in (ng/mL)

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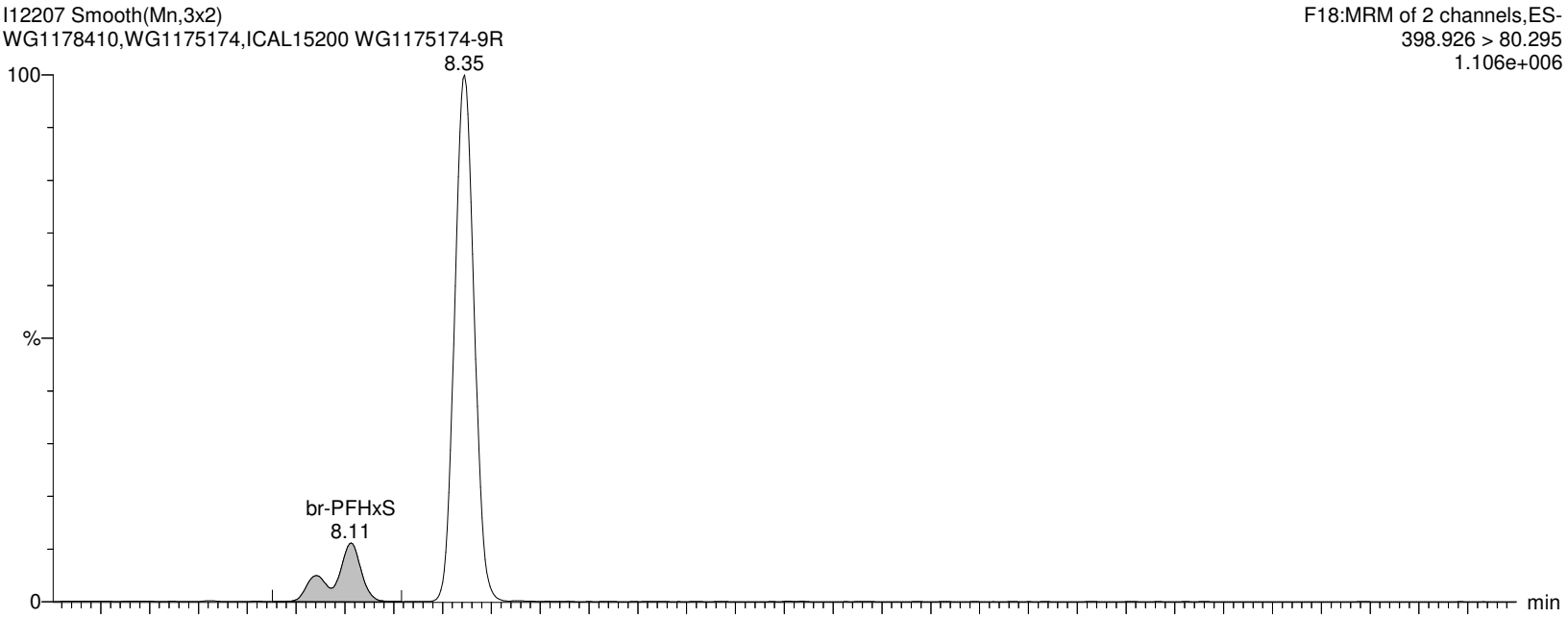

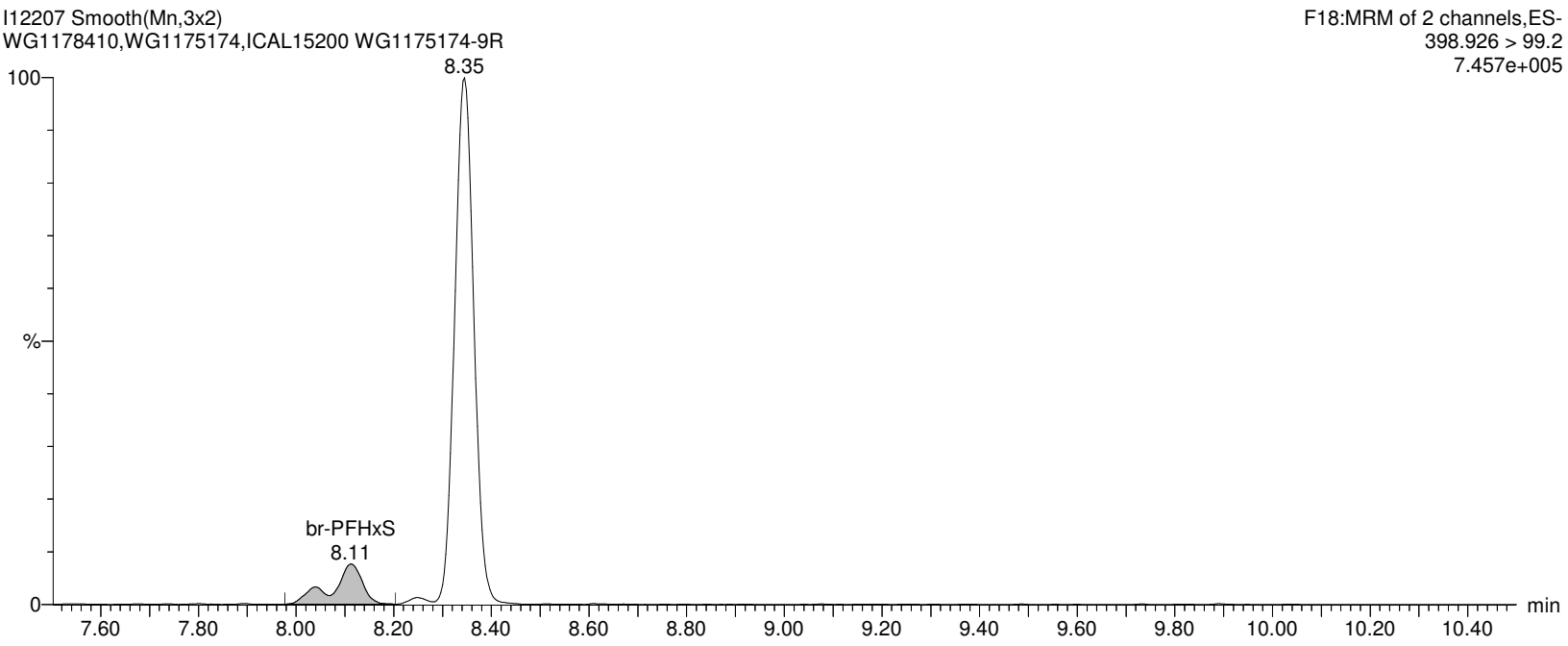

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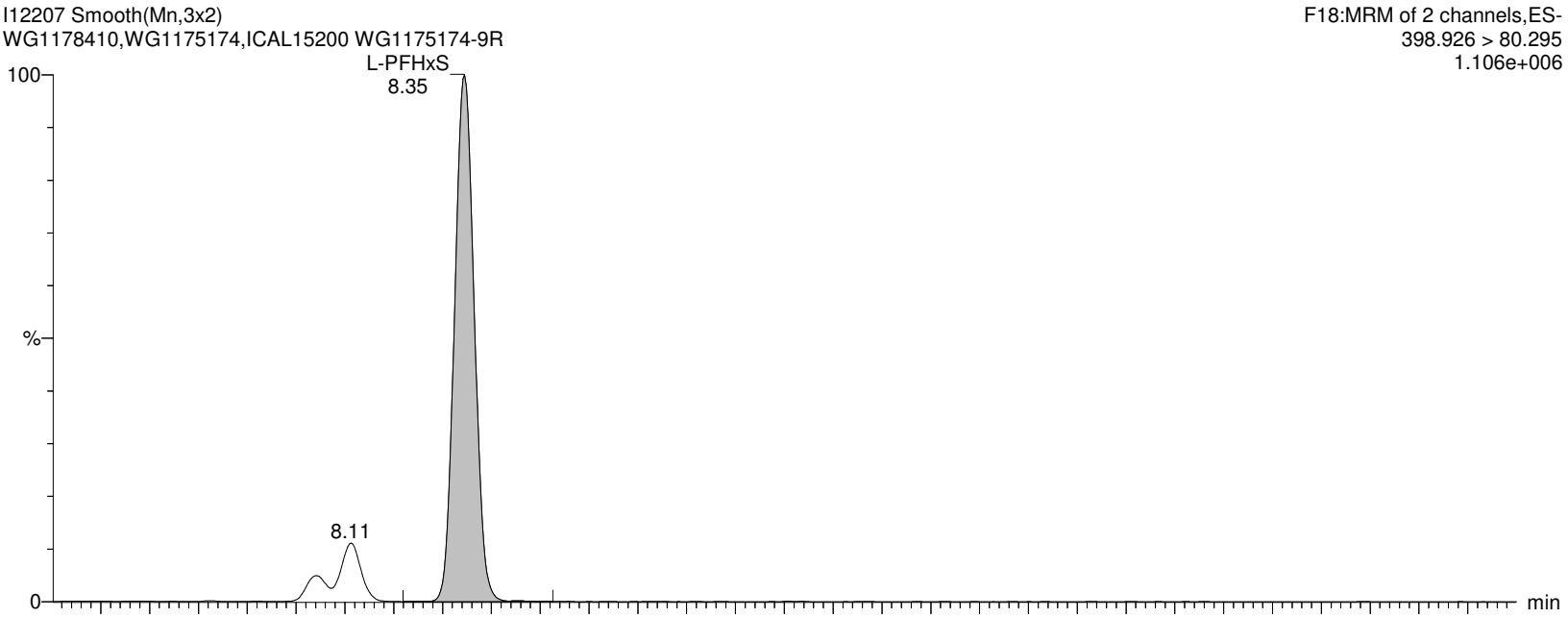
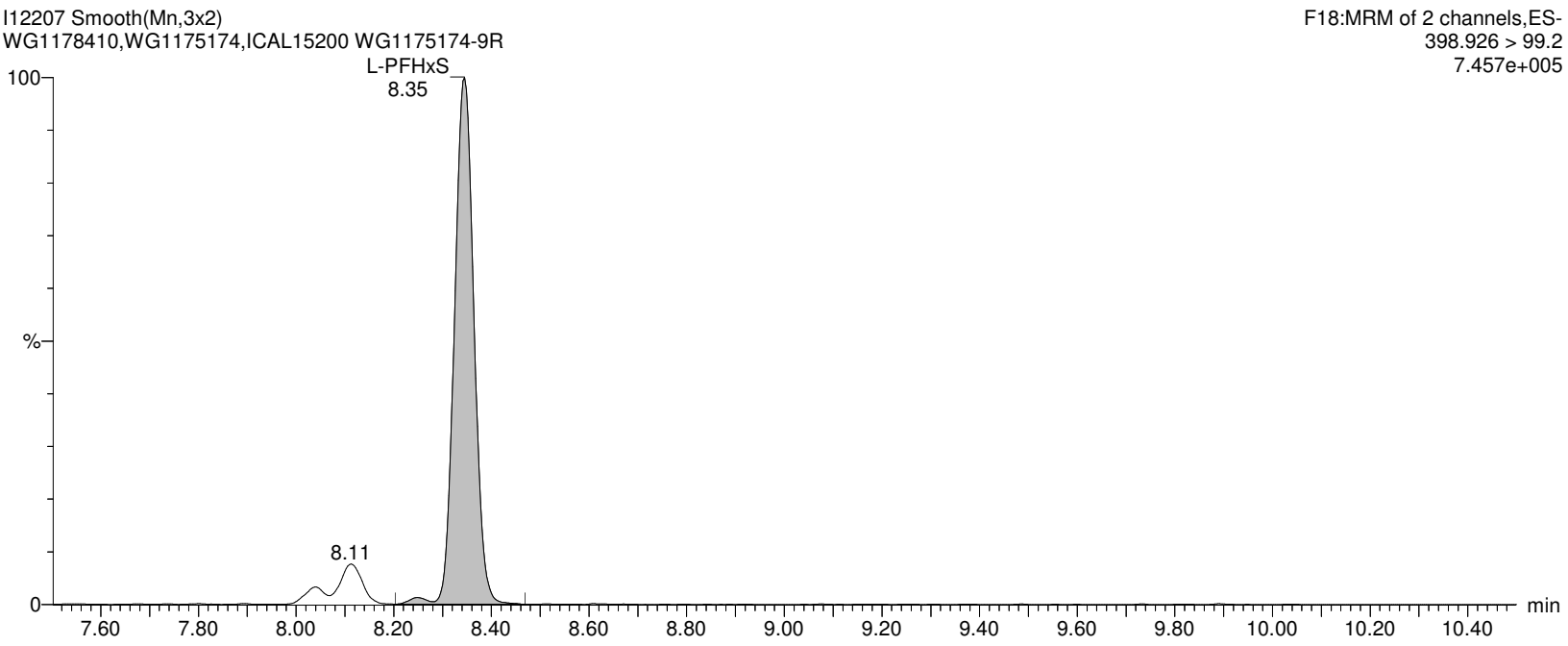
L-PFHxS





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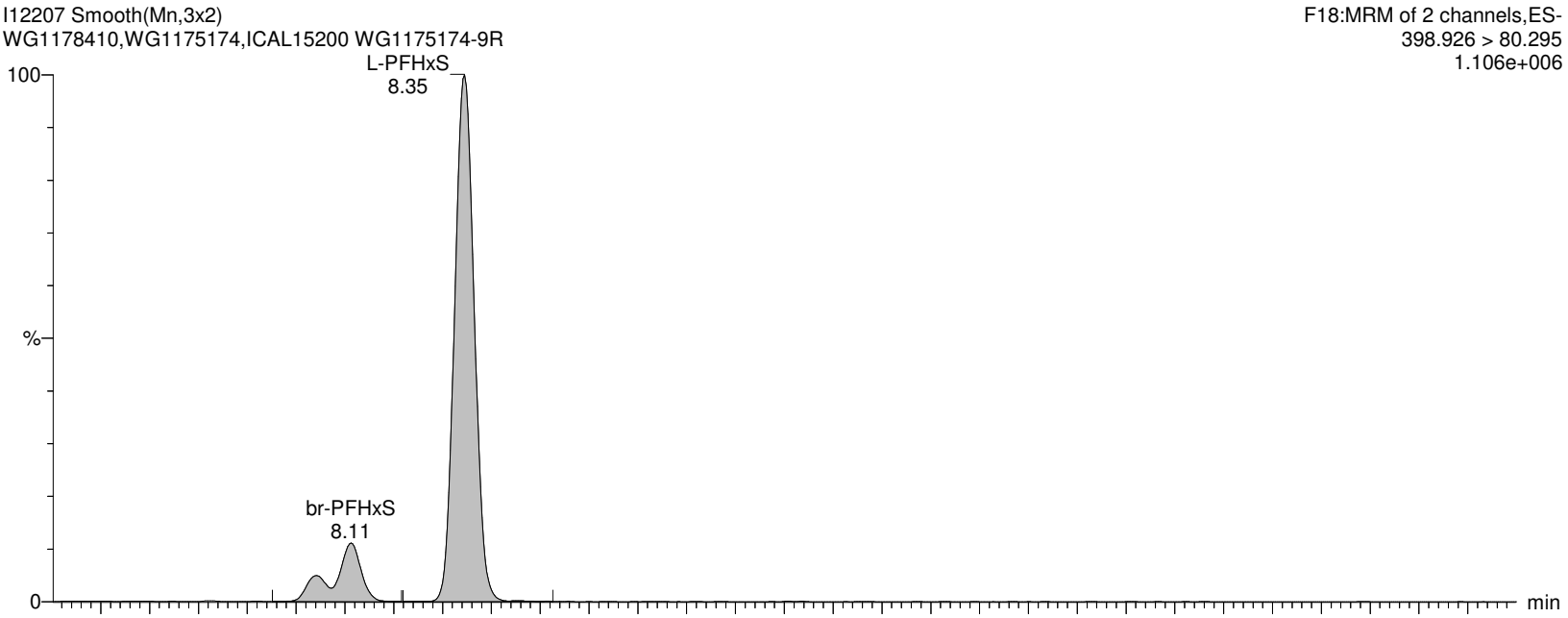

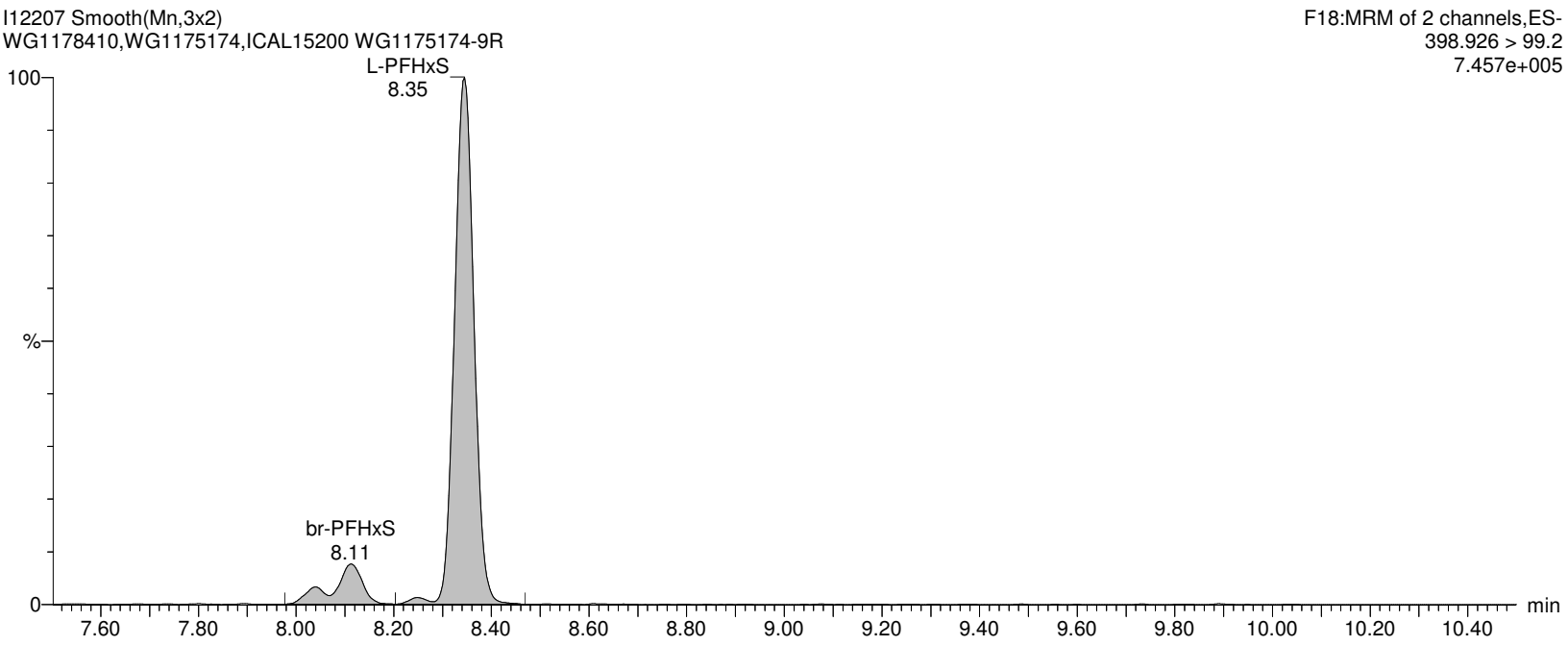

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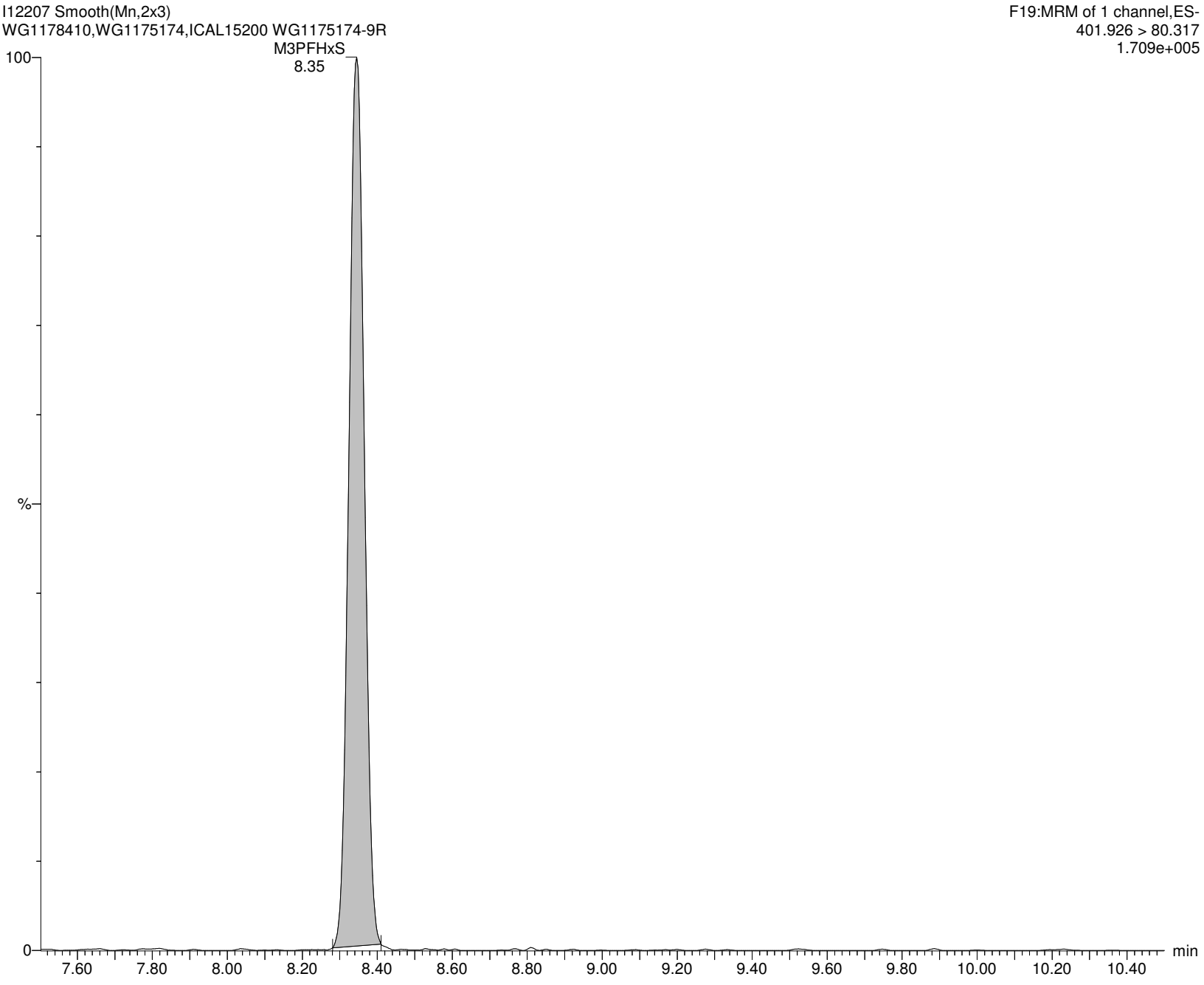

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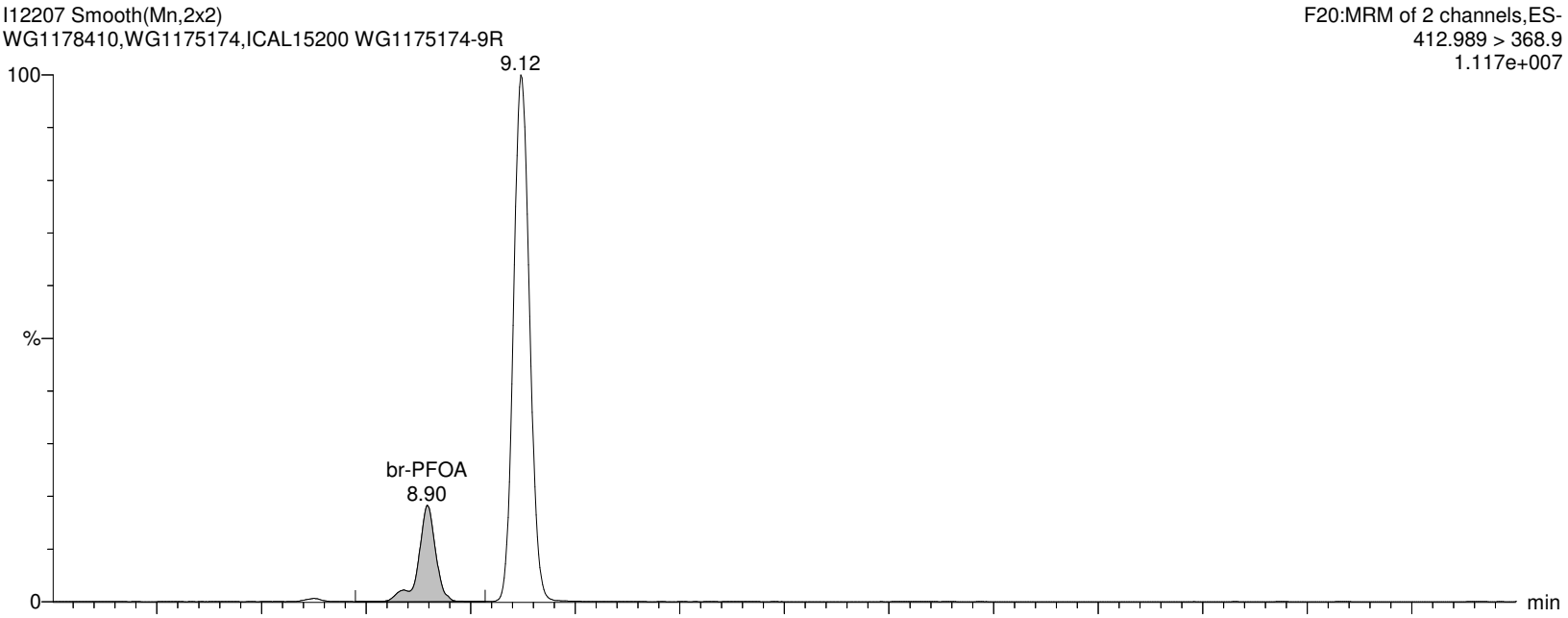

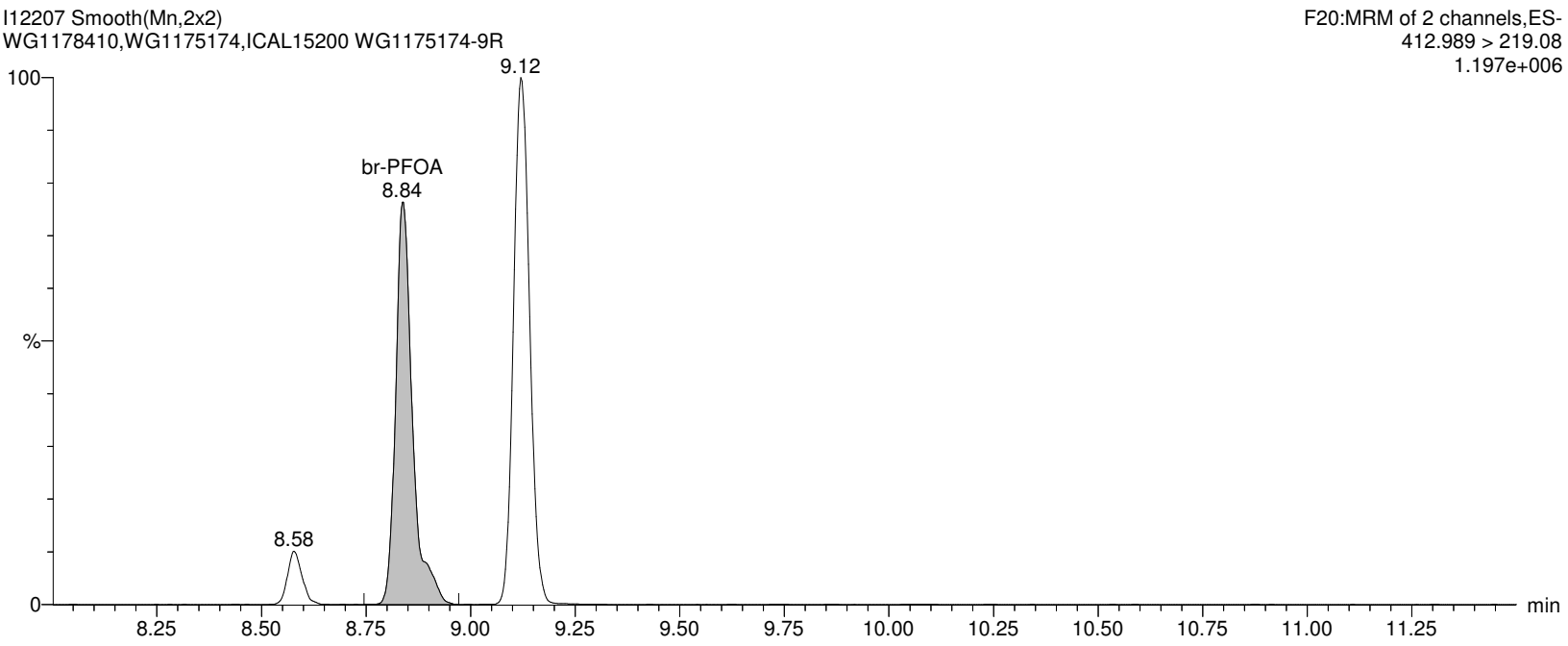

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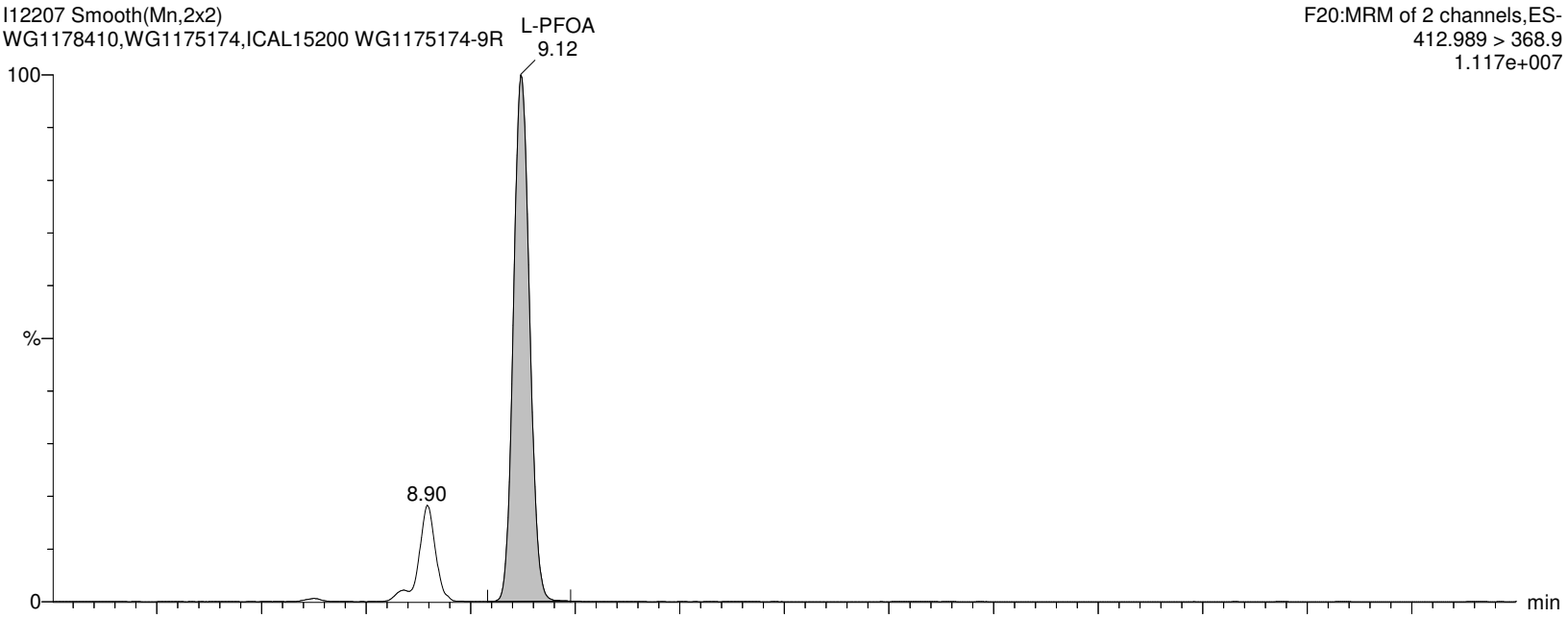

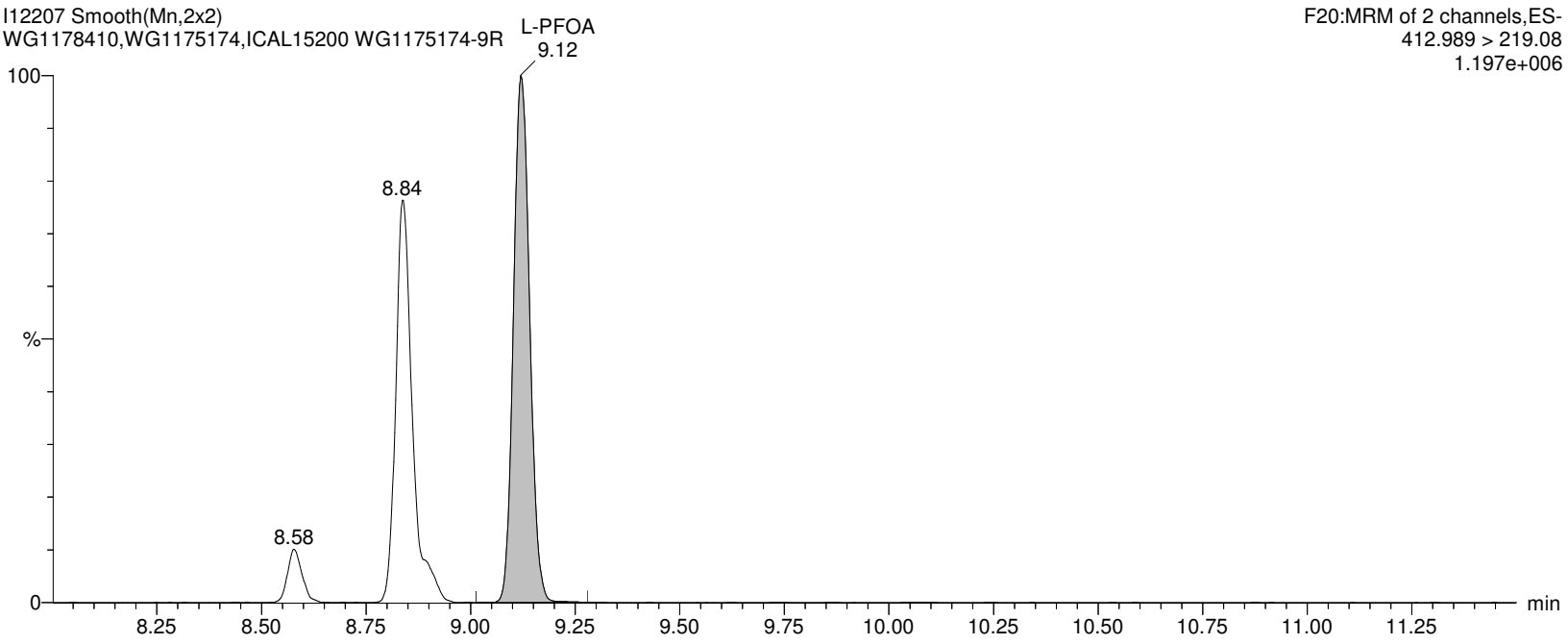

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
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Name: I12207
ID: WG1175174-9R
Date: 12-Nov-2018
Time: 19:51:42
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:F,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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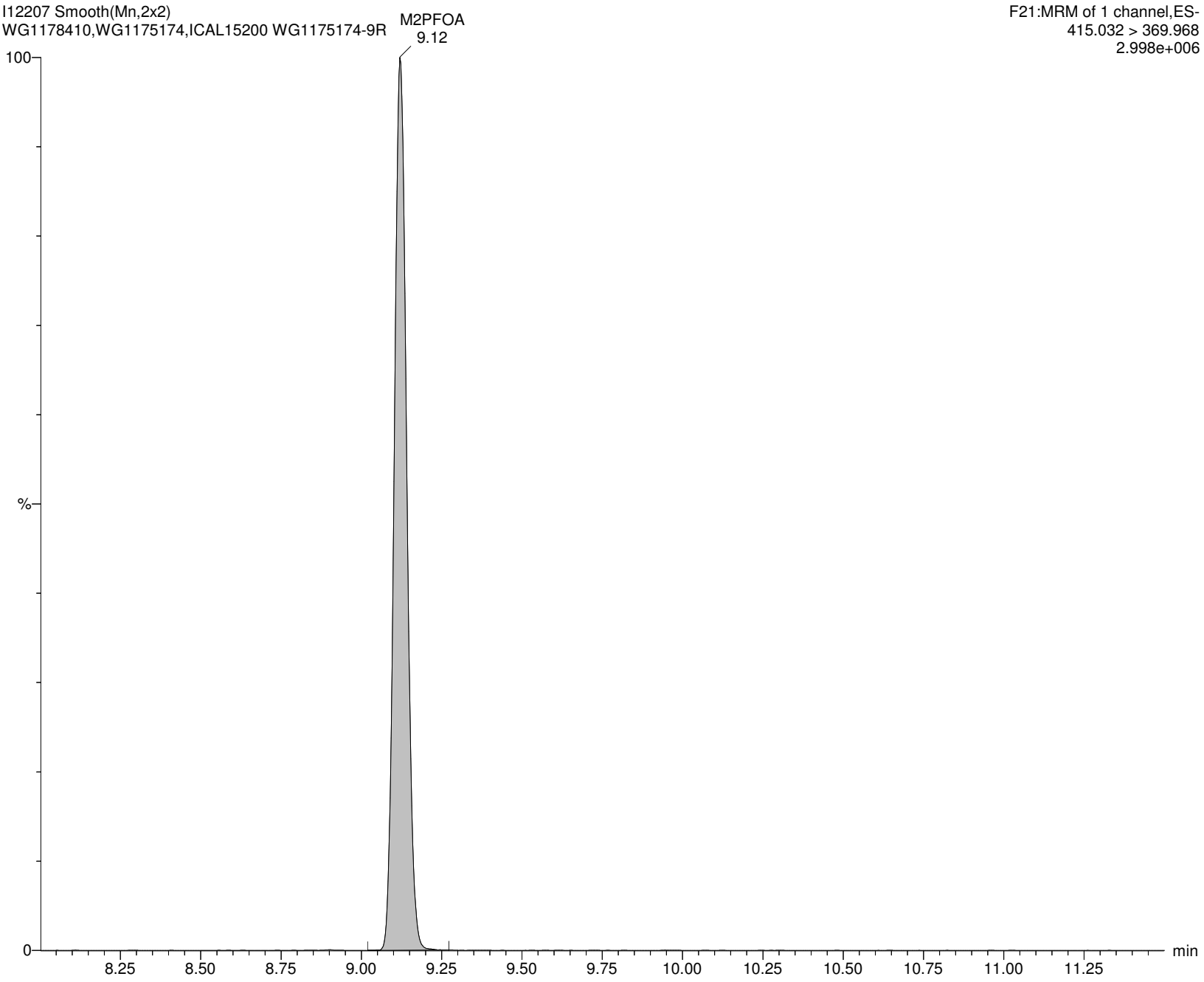

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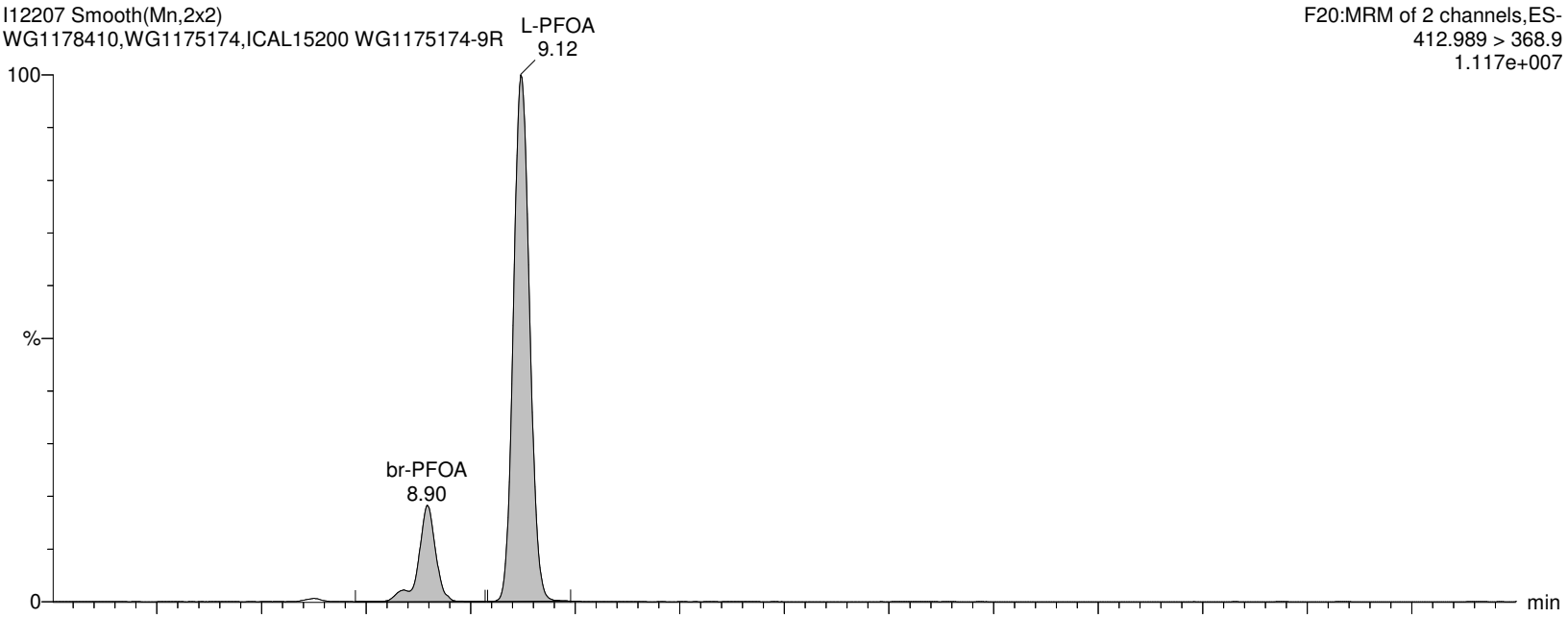

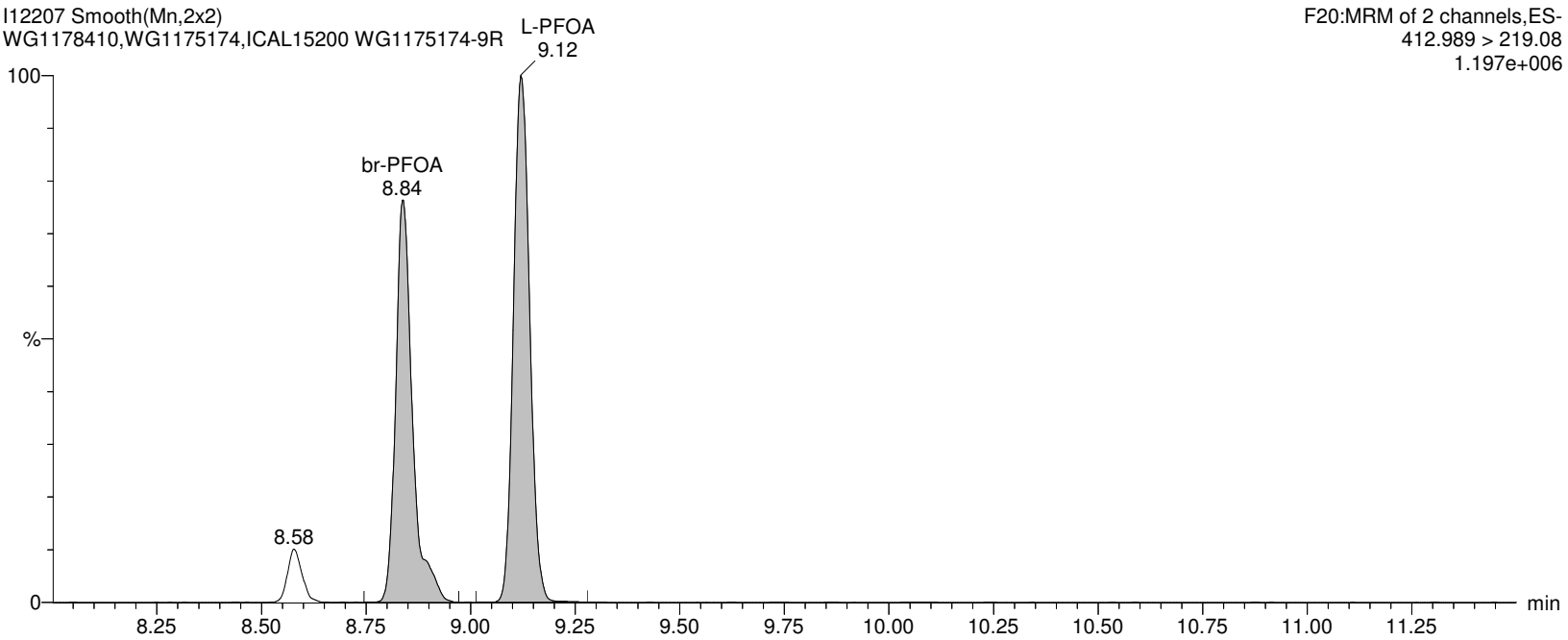

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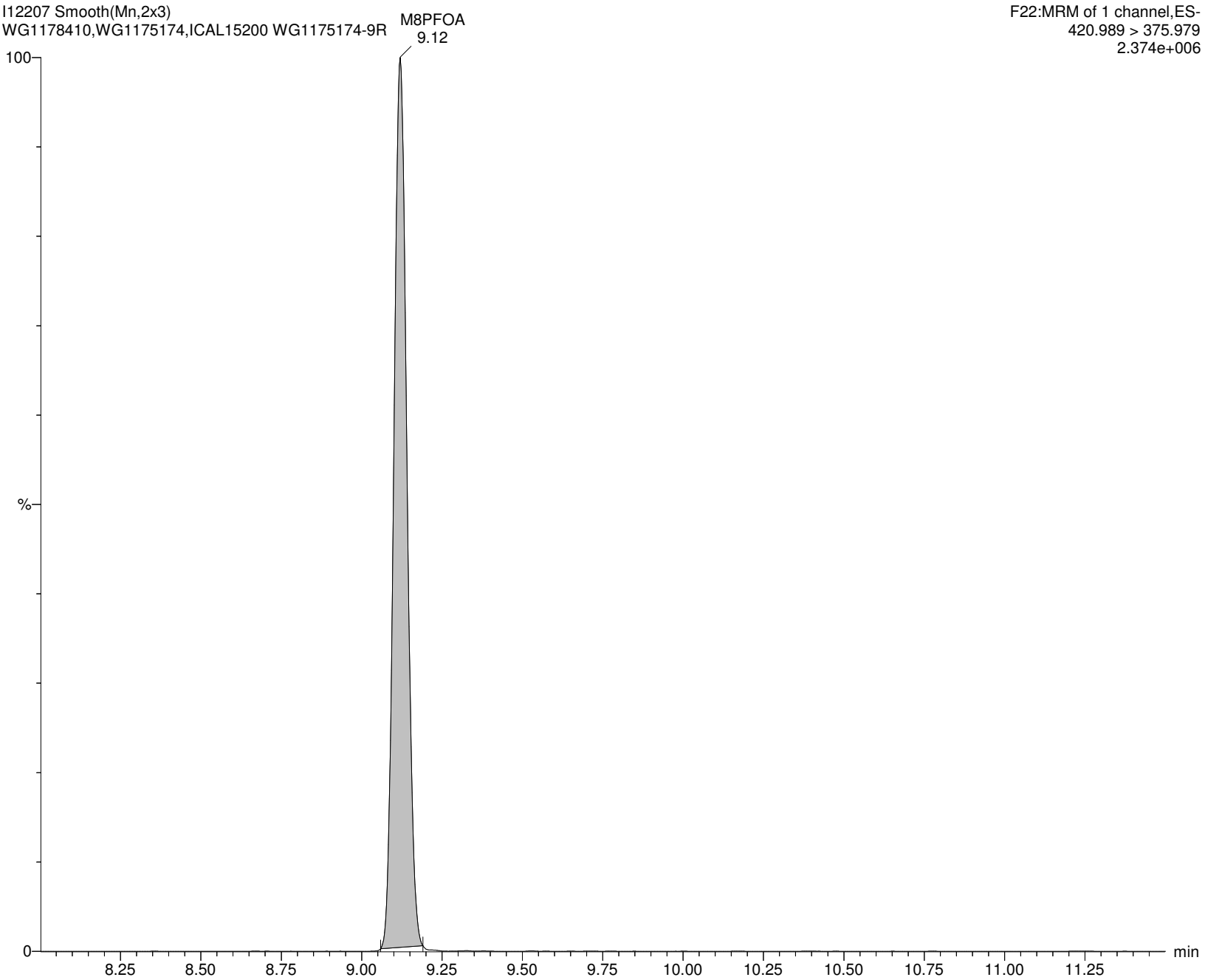

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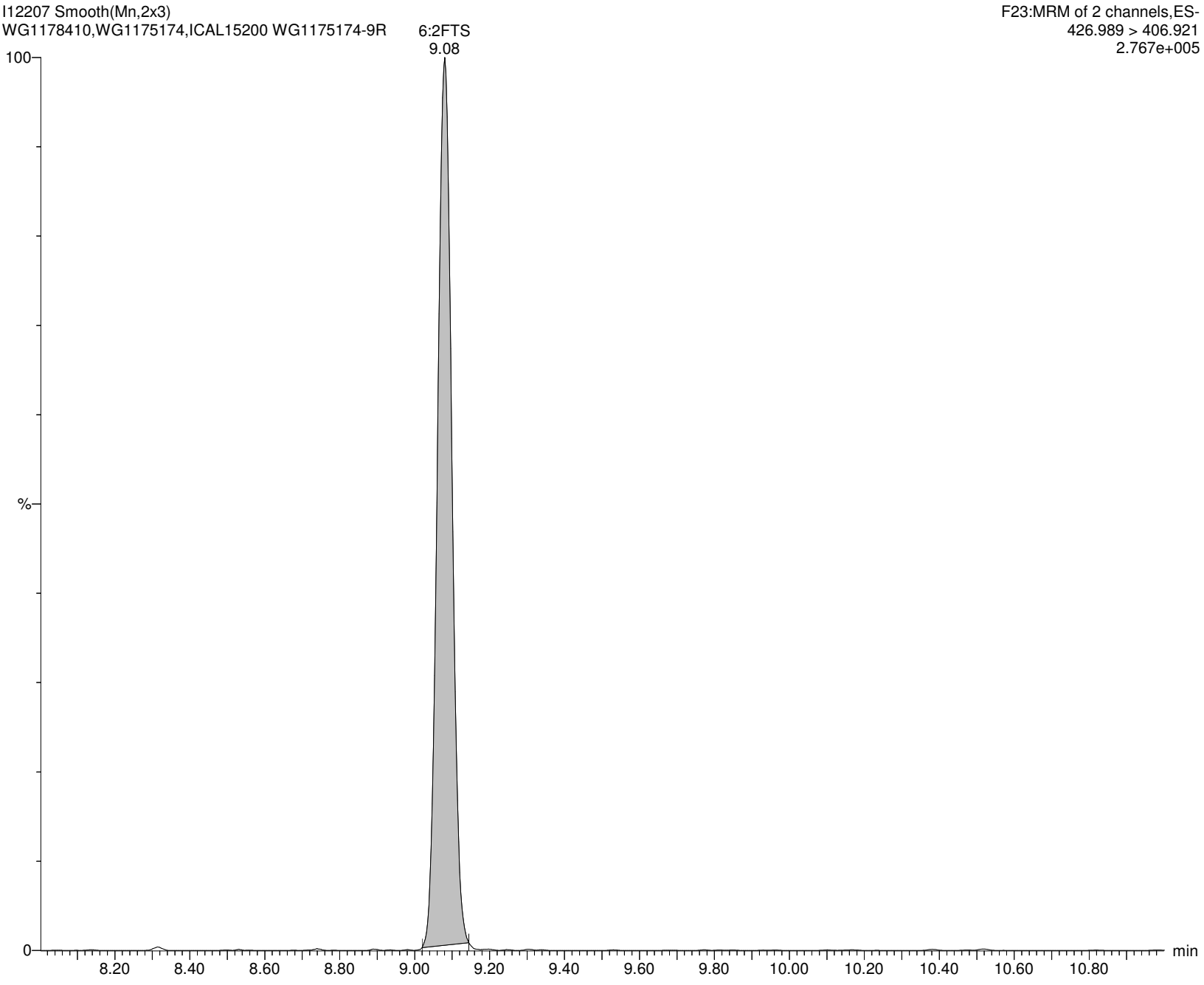

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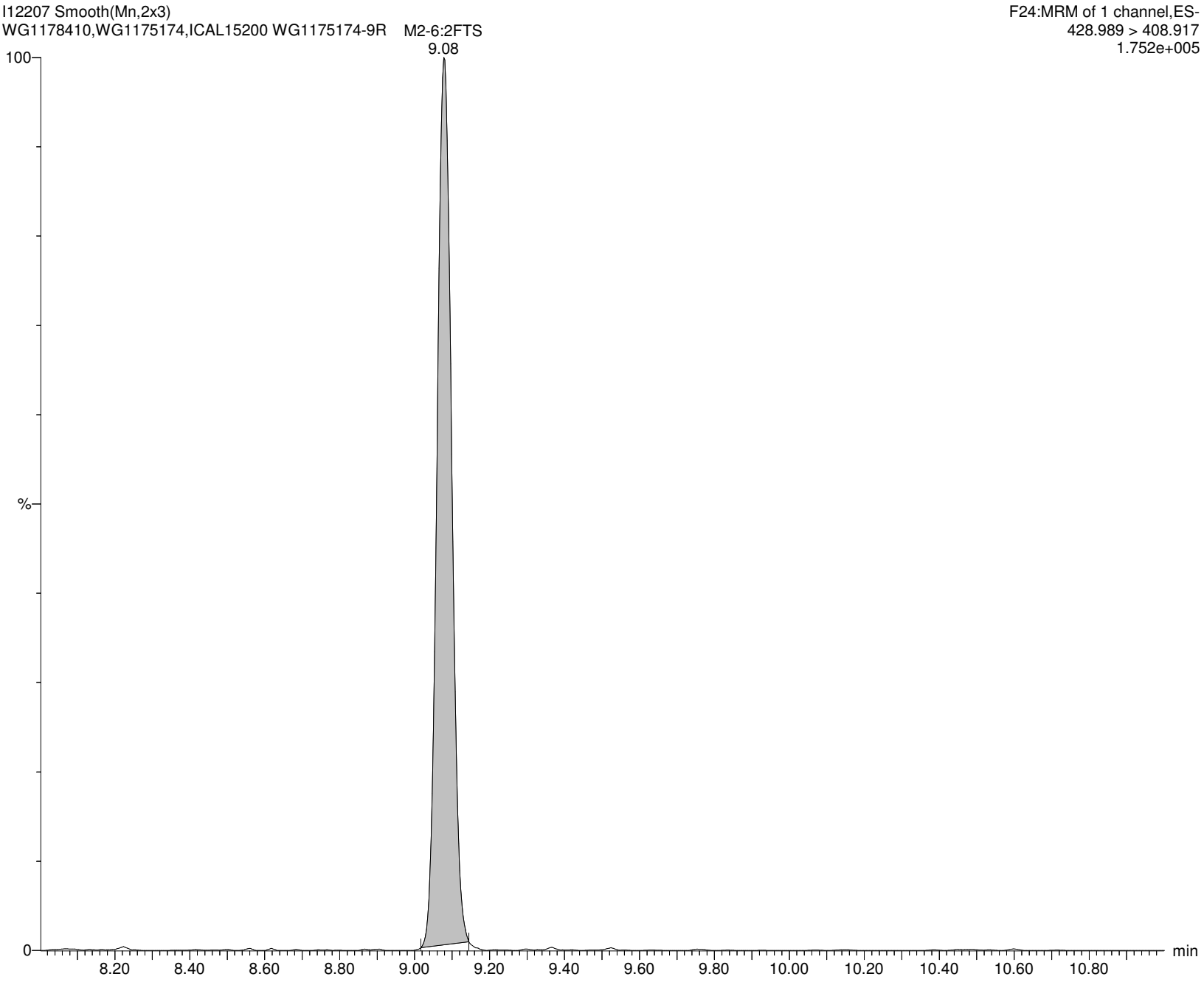
M2-6:2FTS



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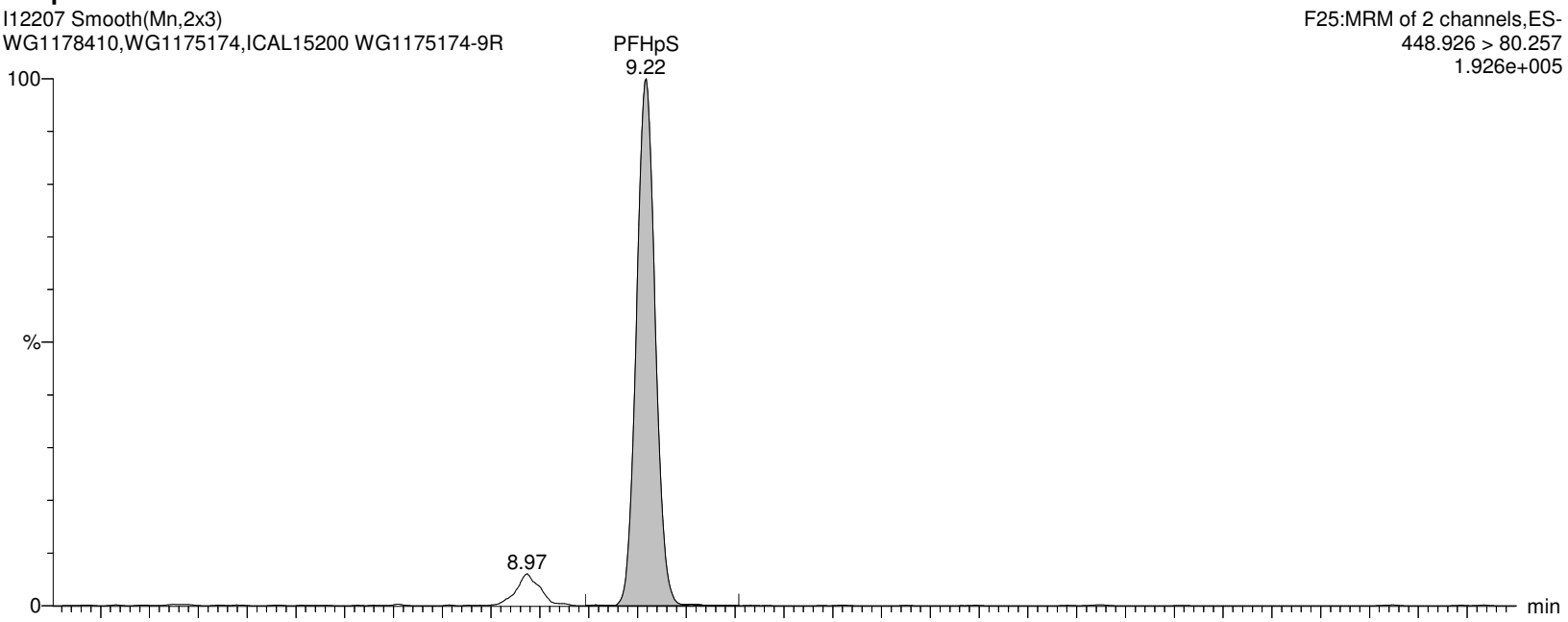

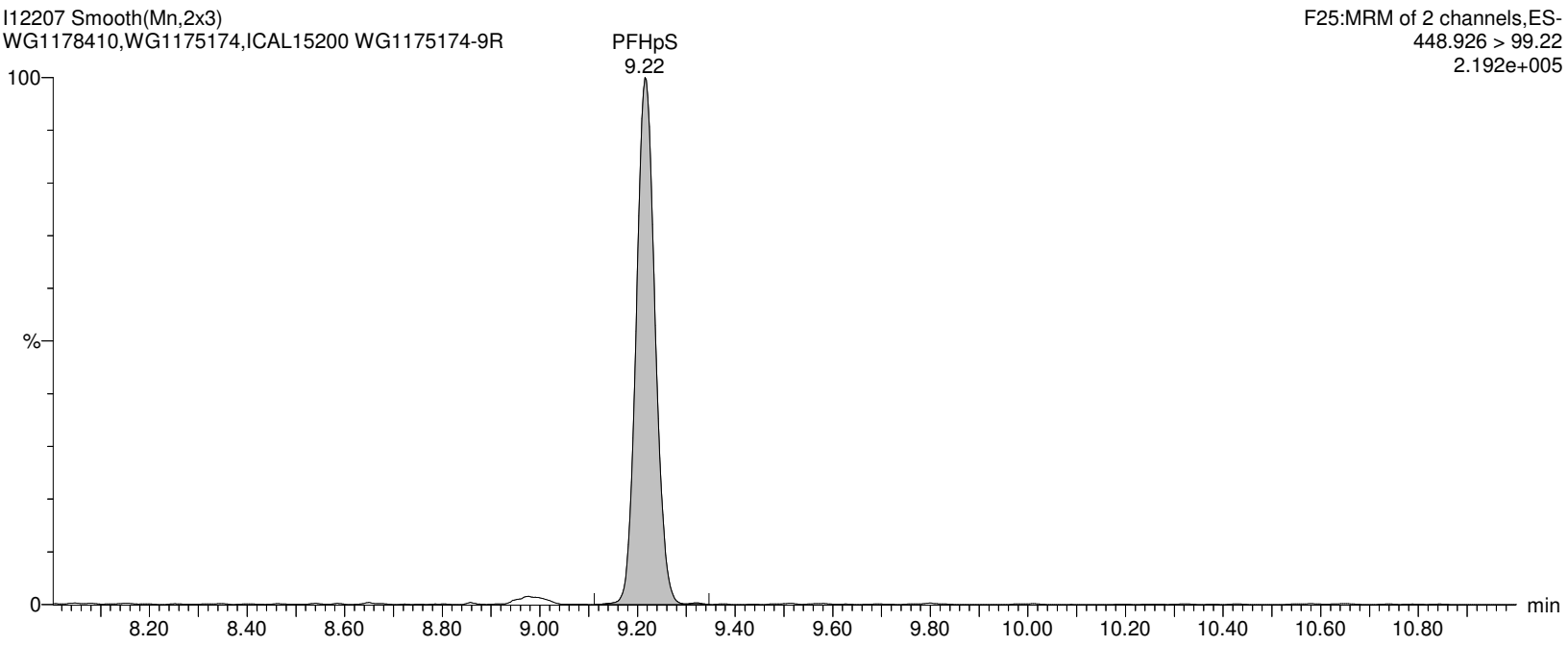

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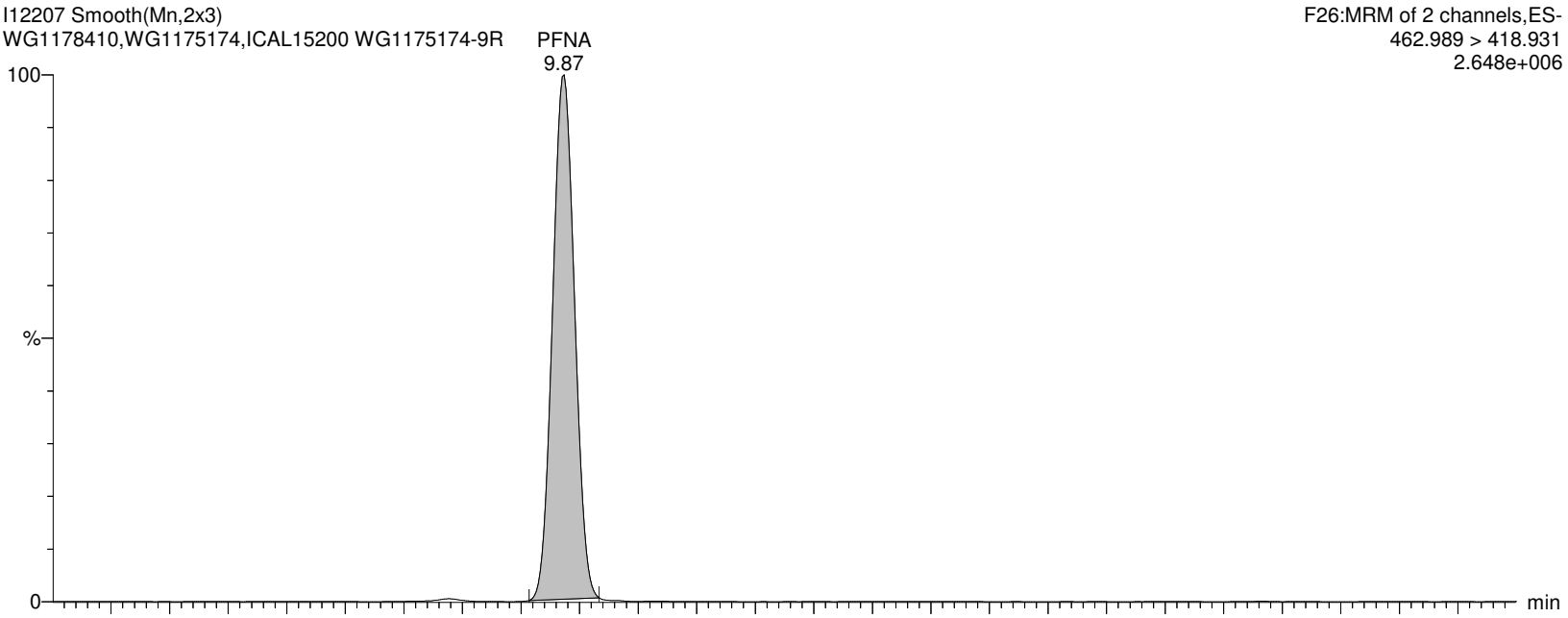

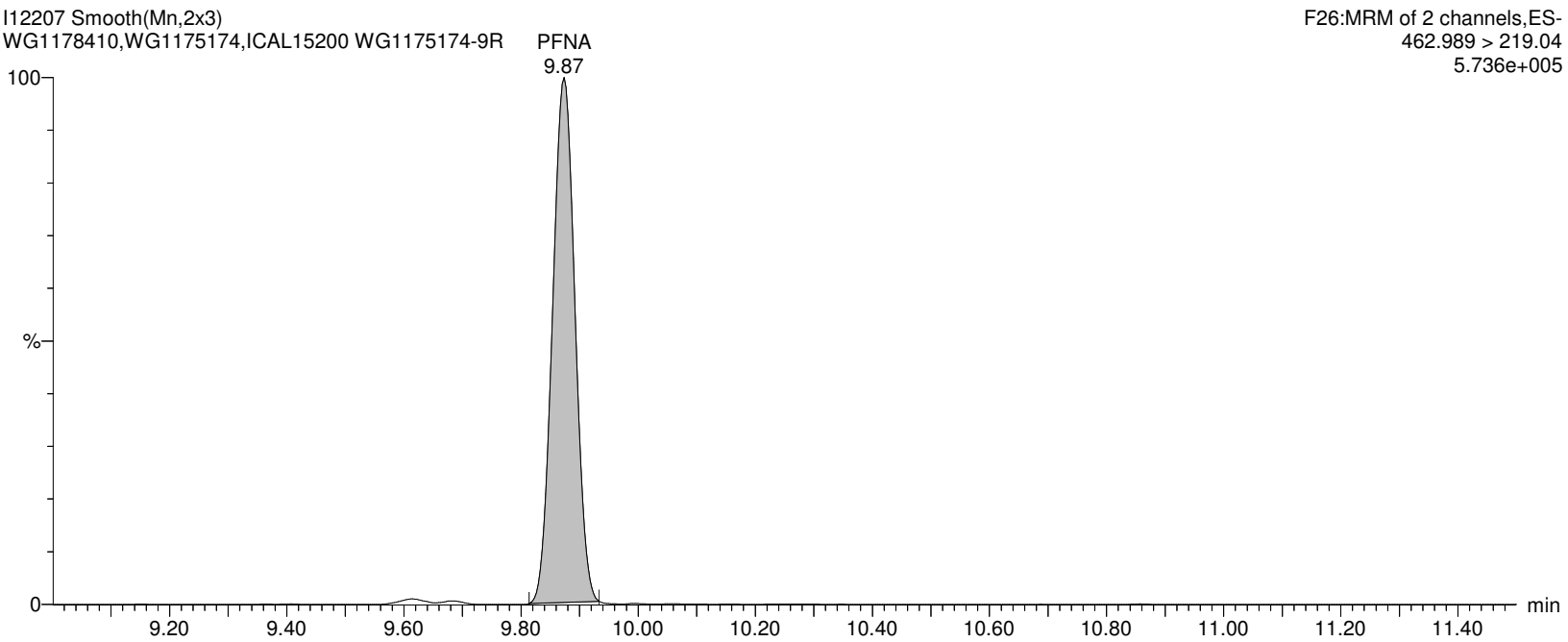

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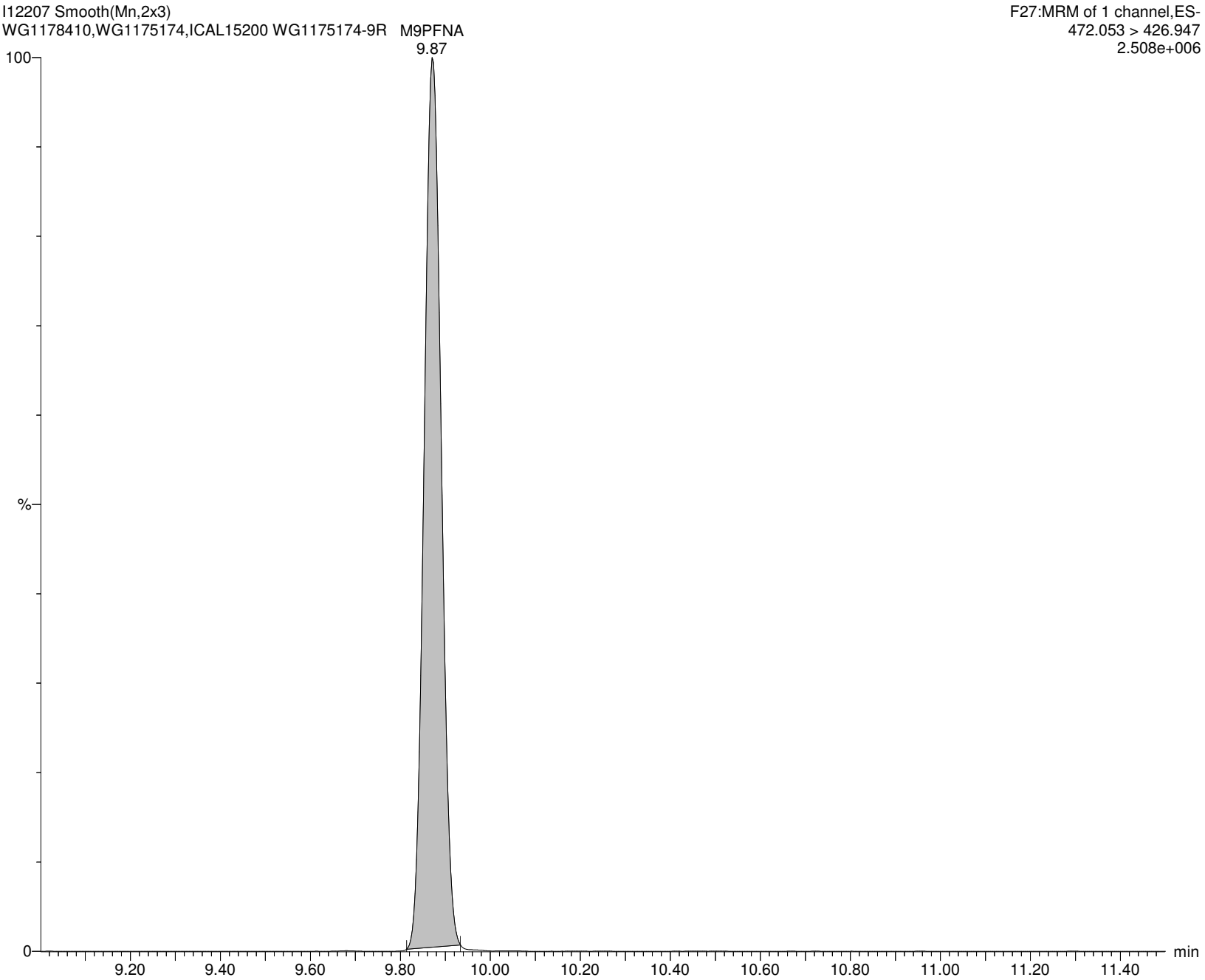

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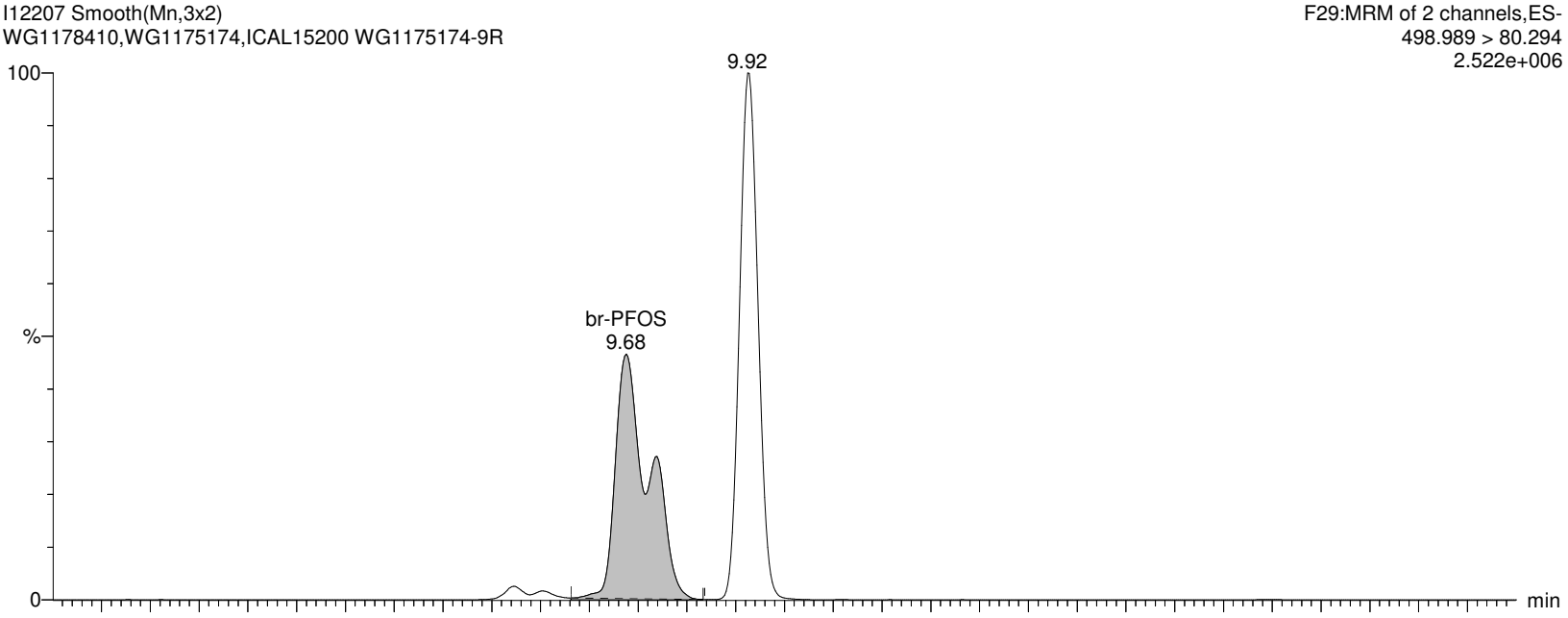

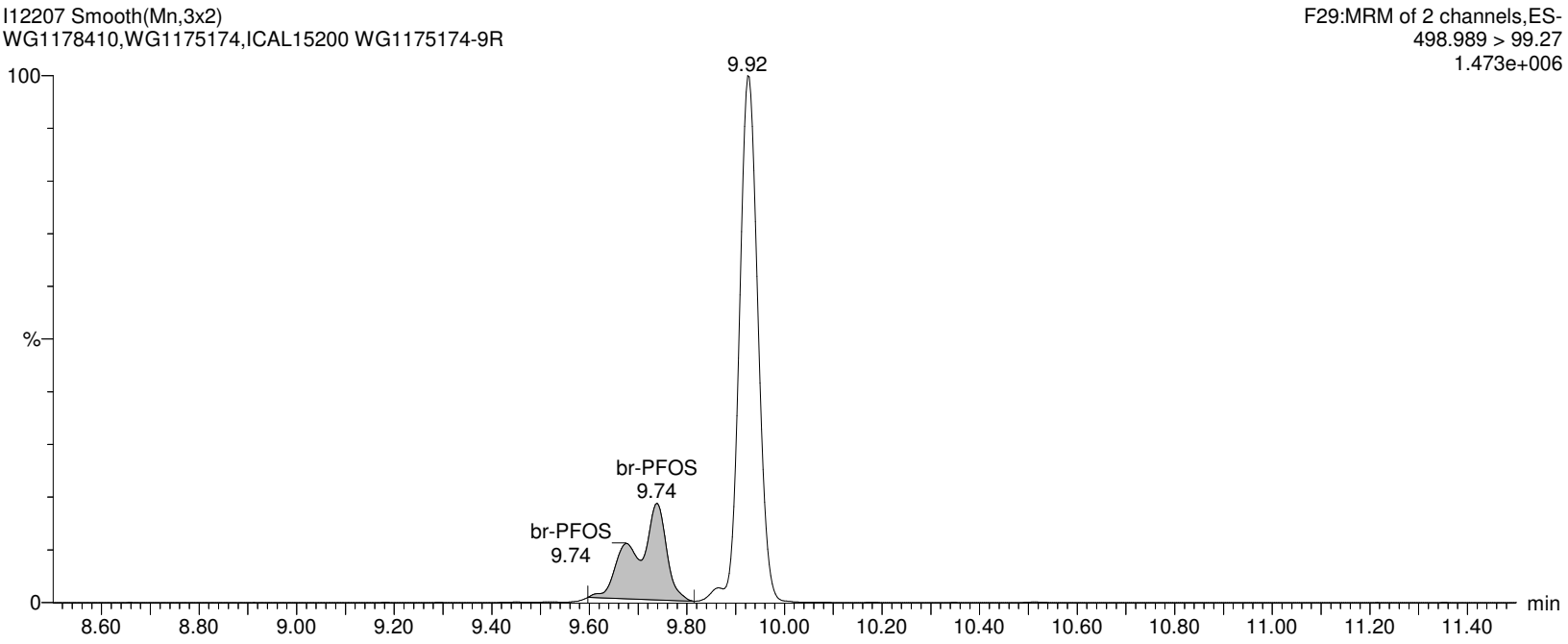

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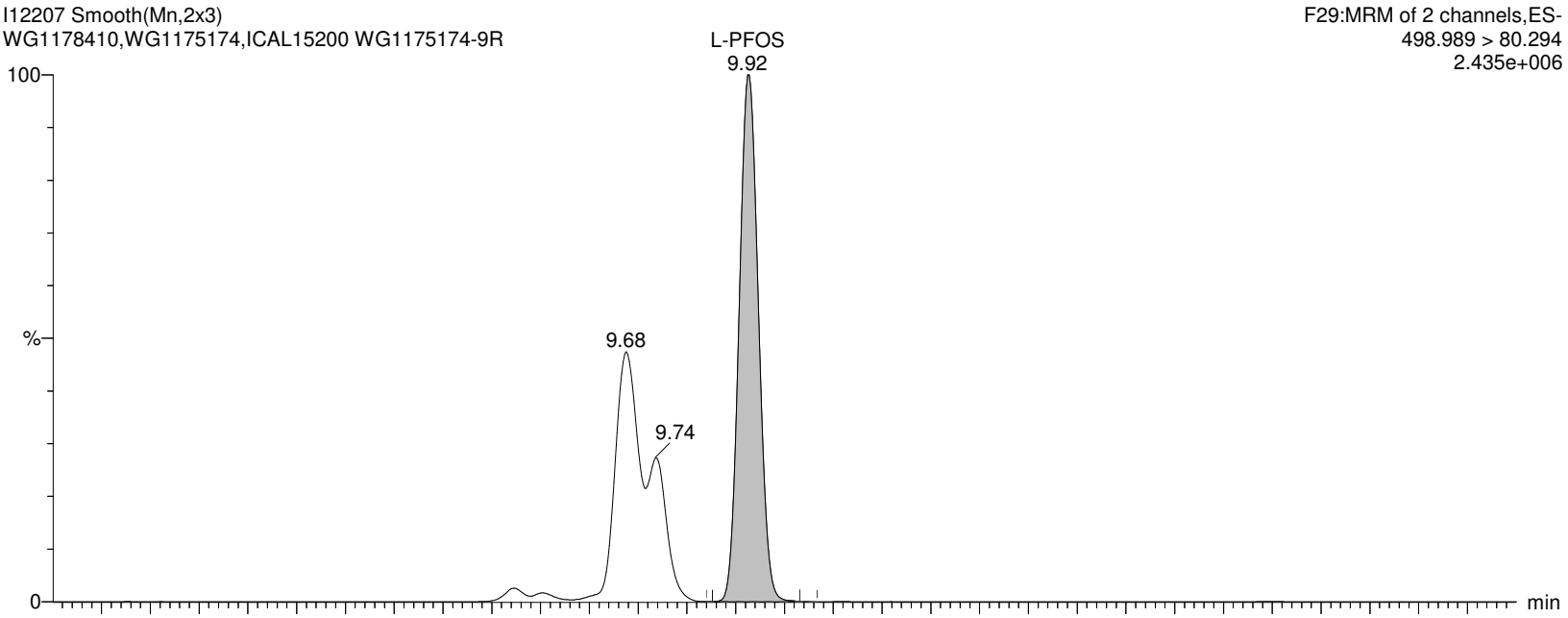

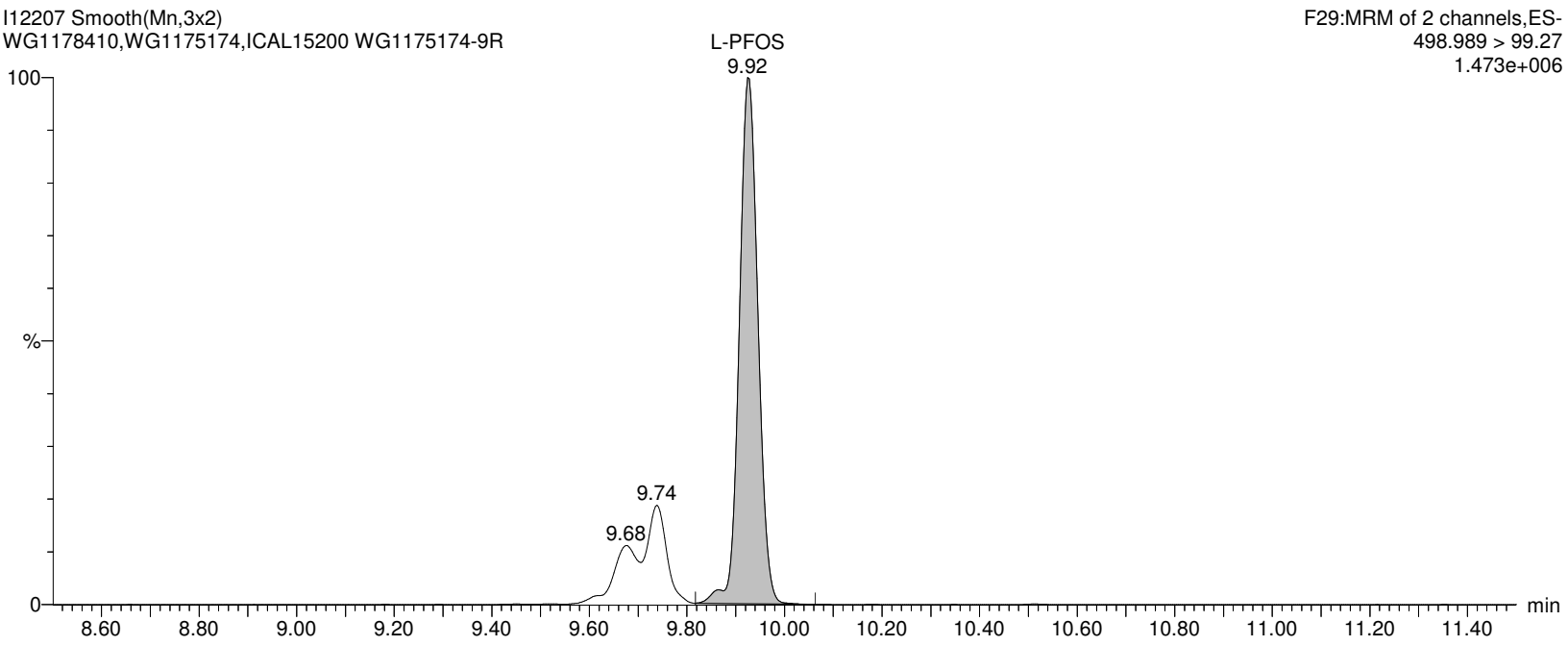

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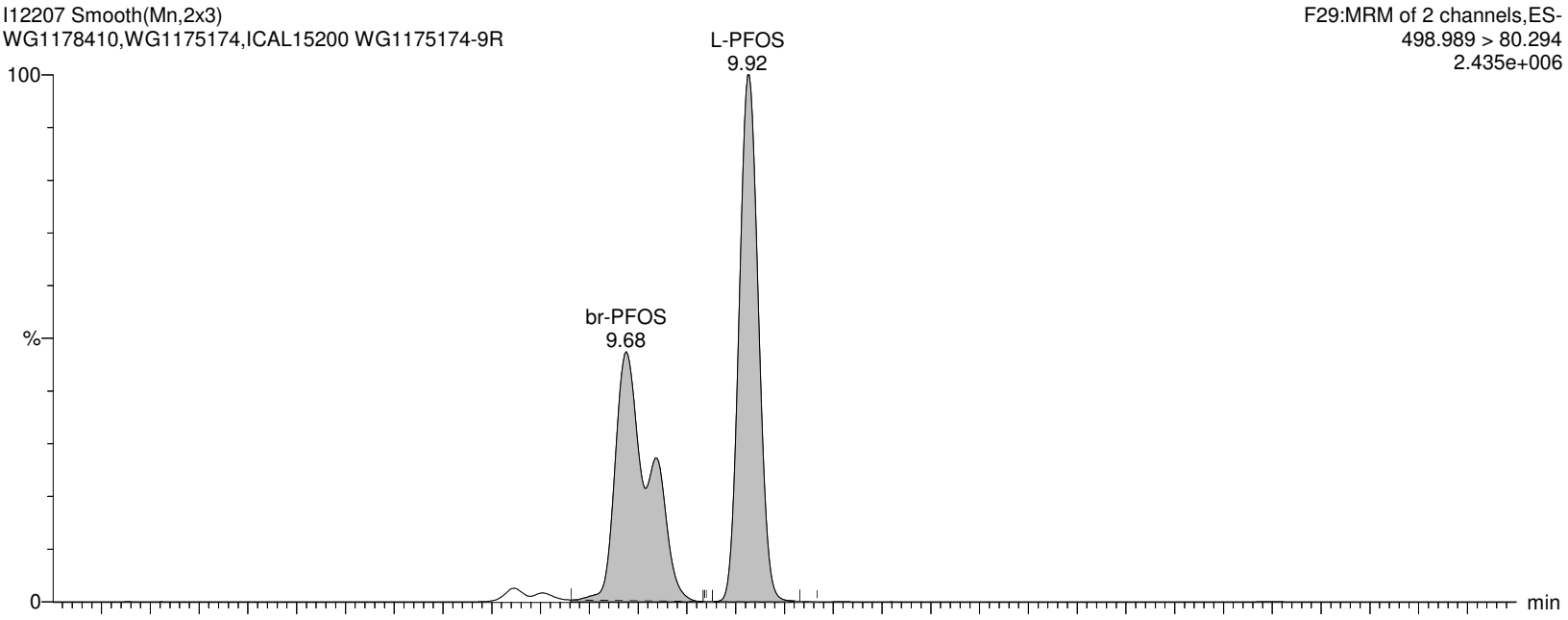

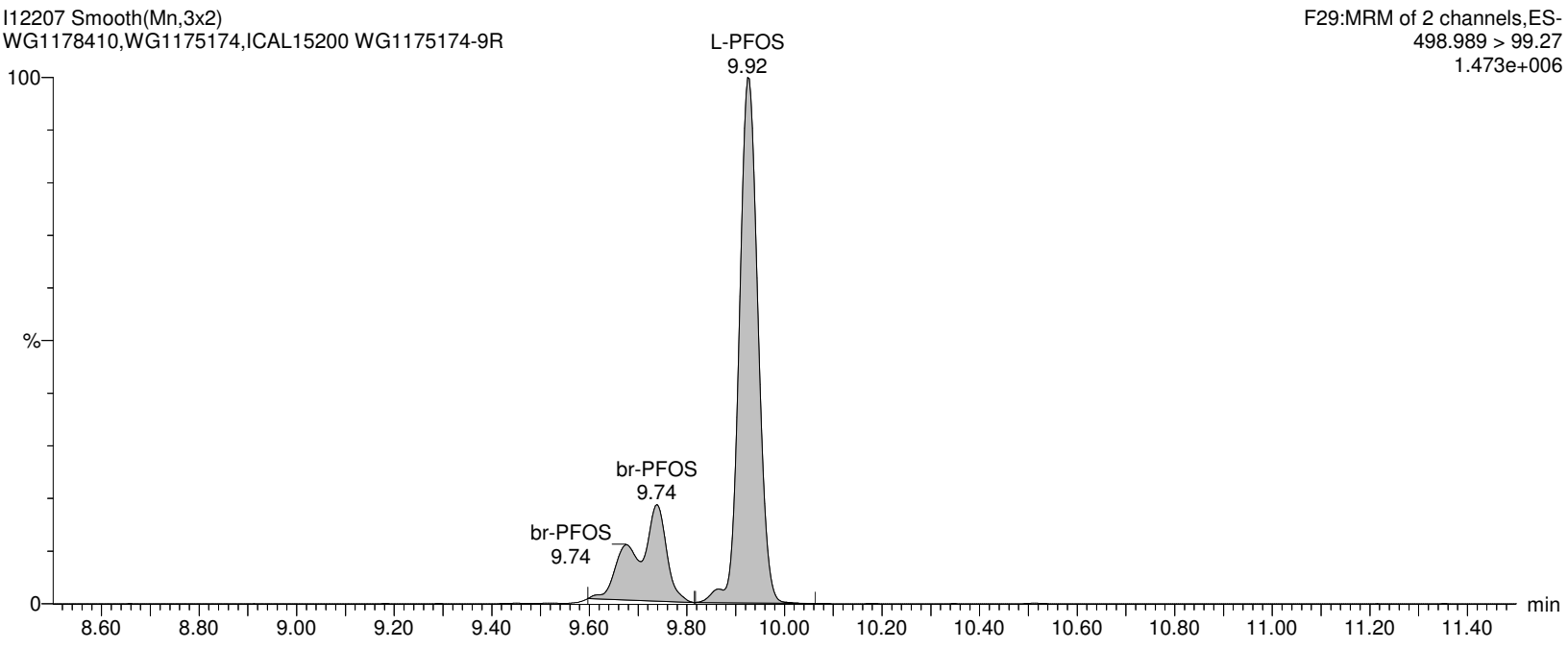

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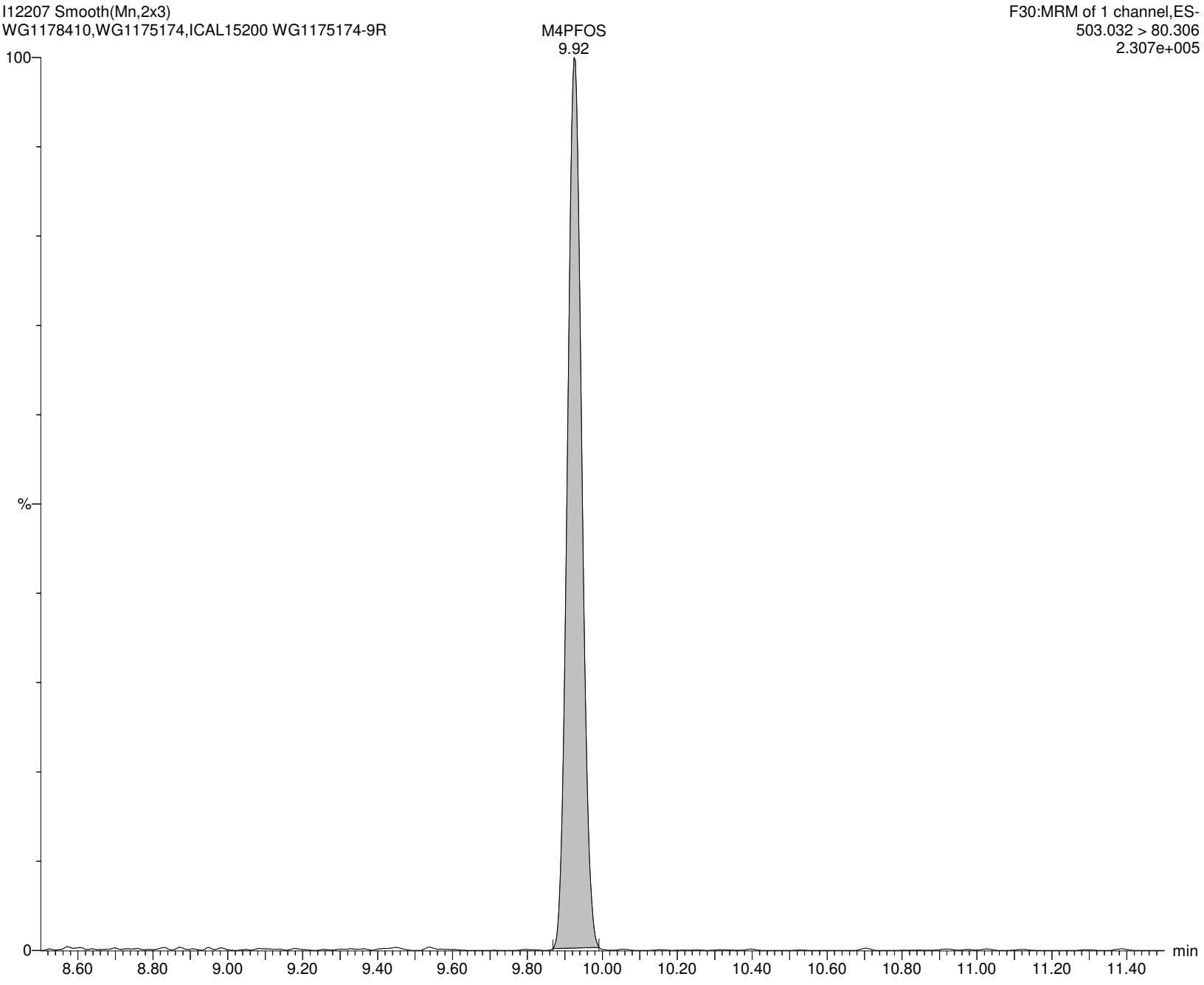

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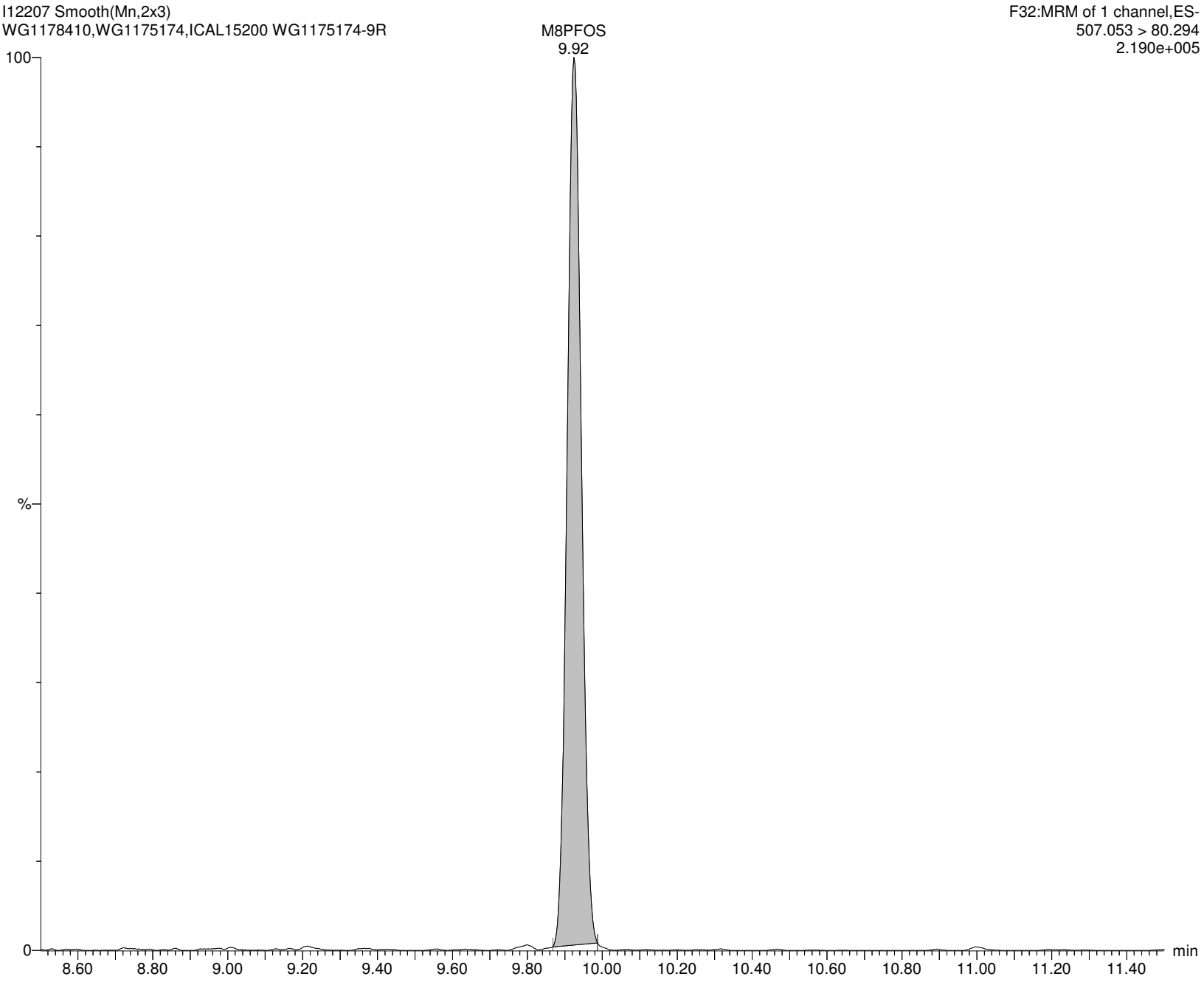
M8PFOS



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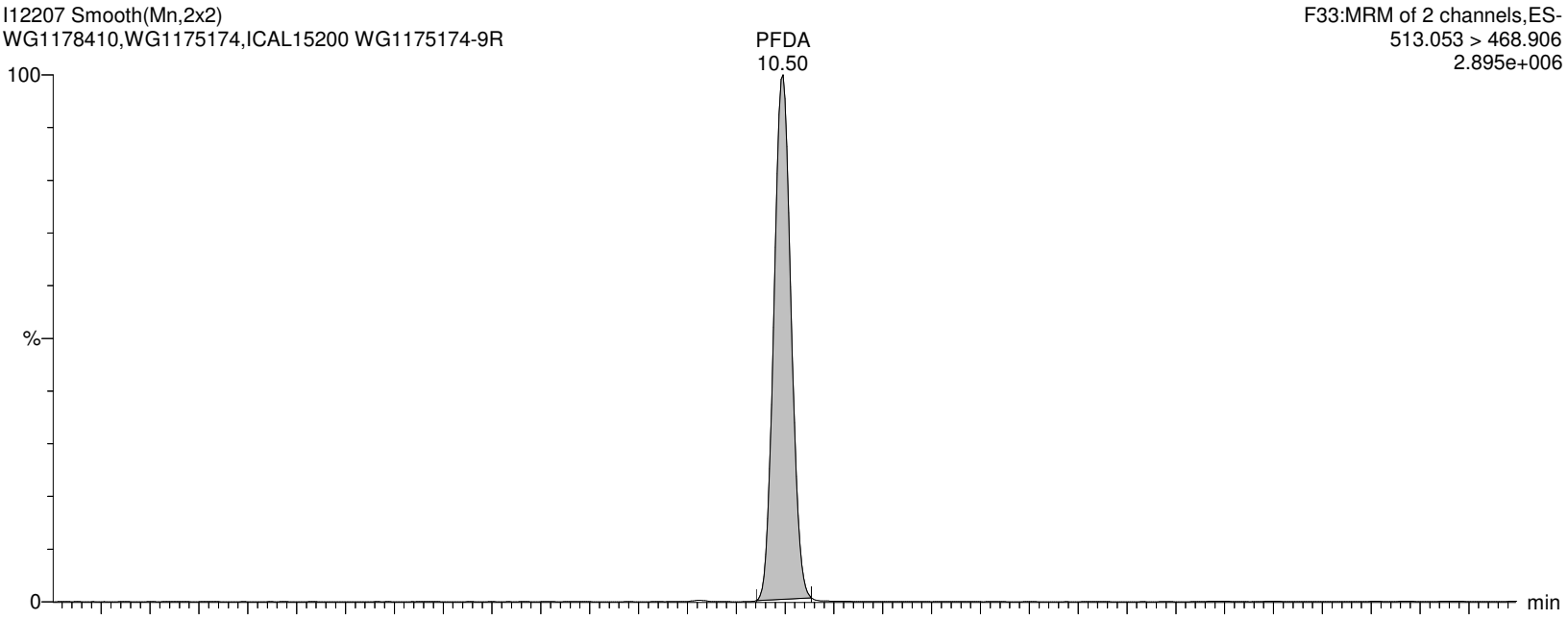

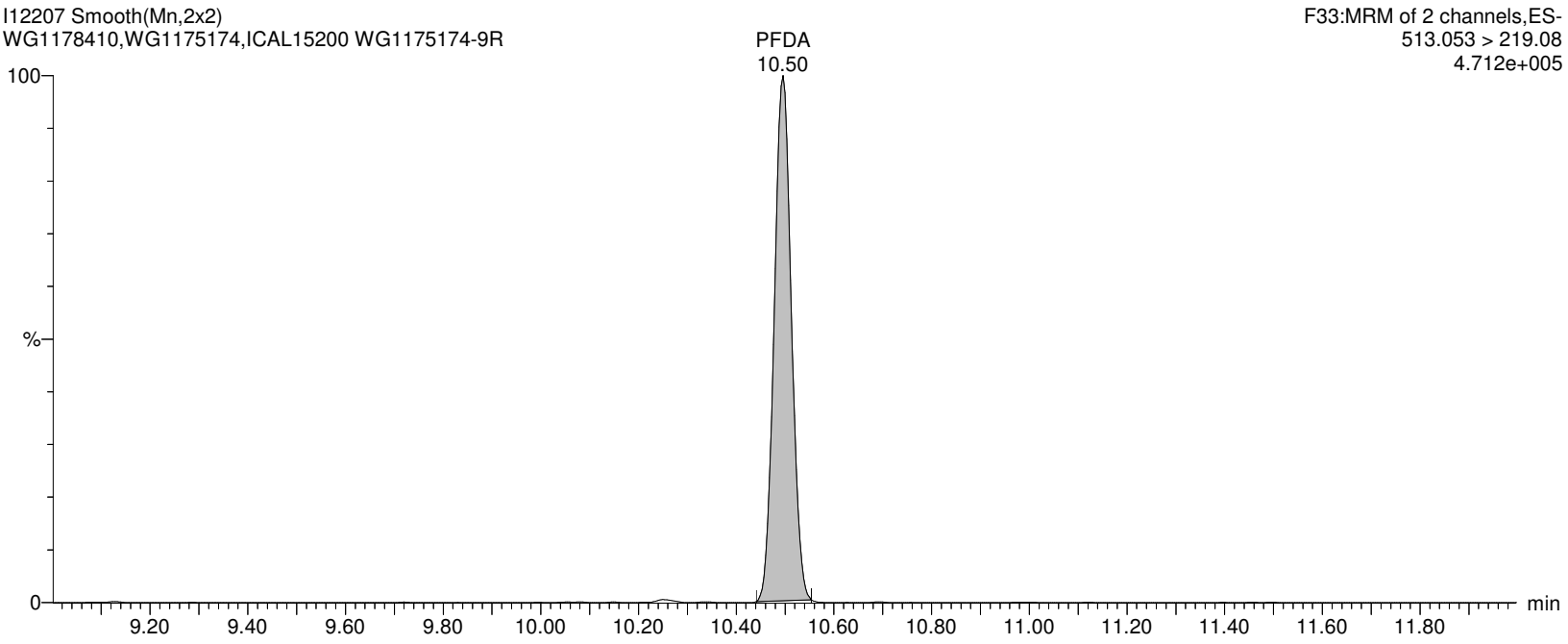

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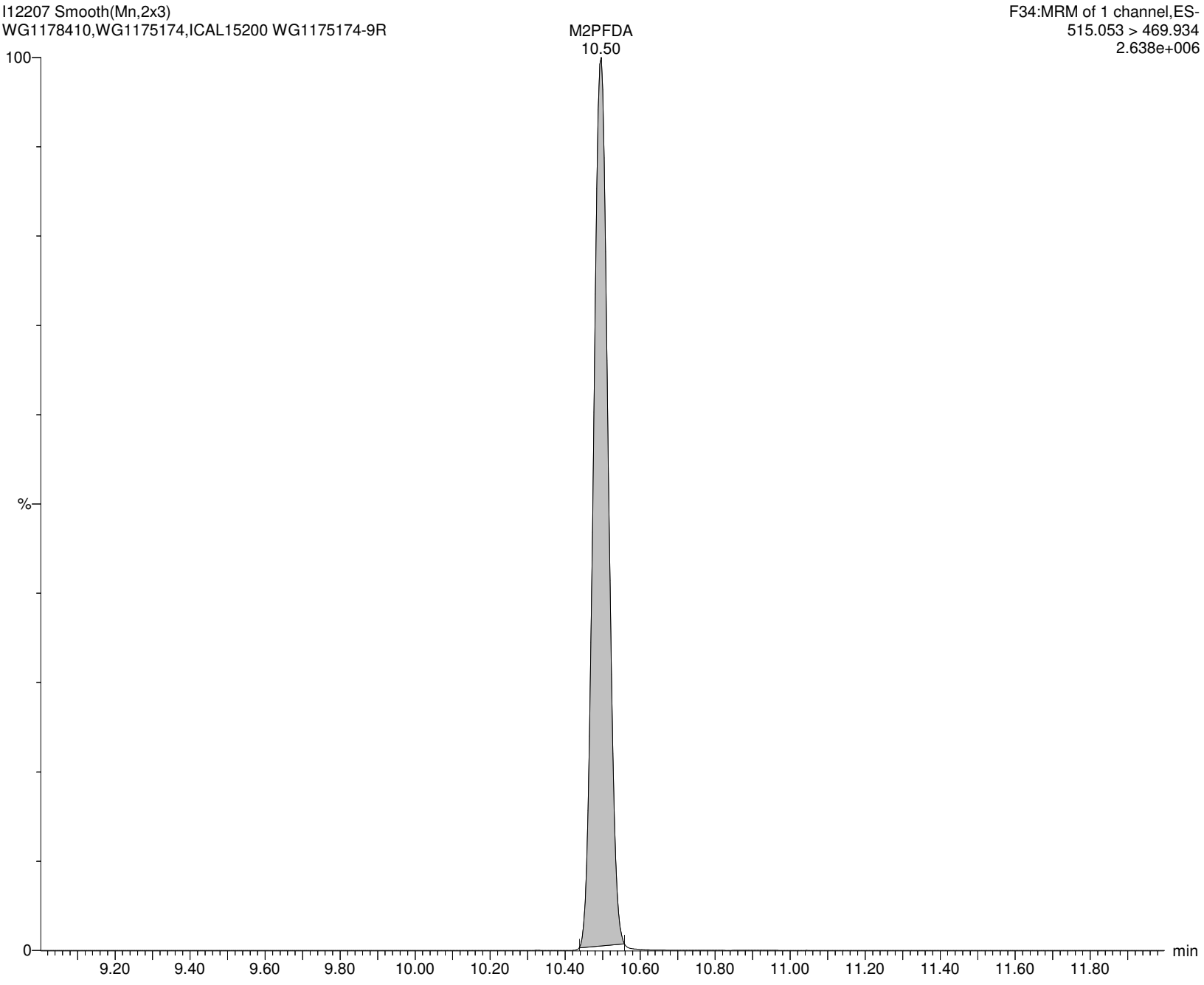

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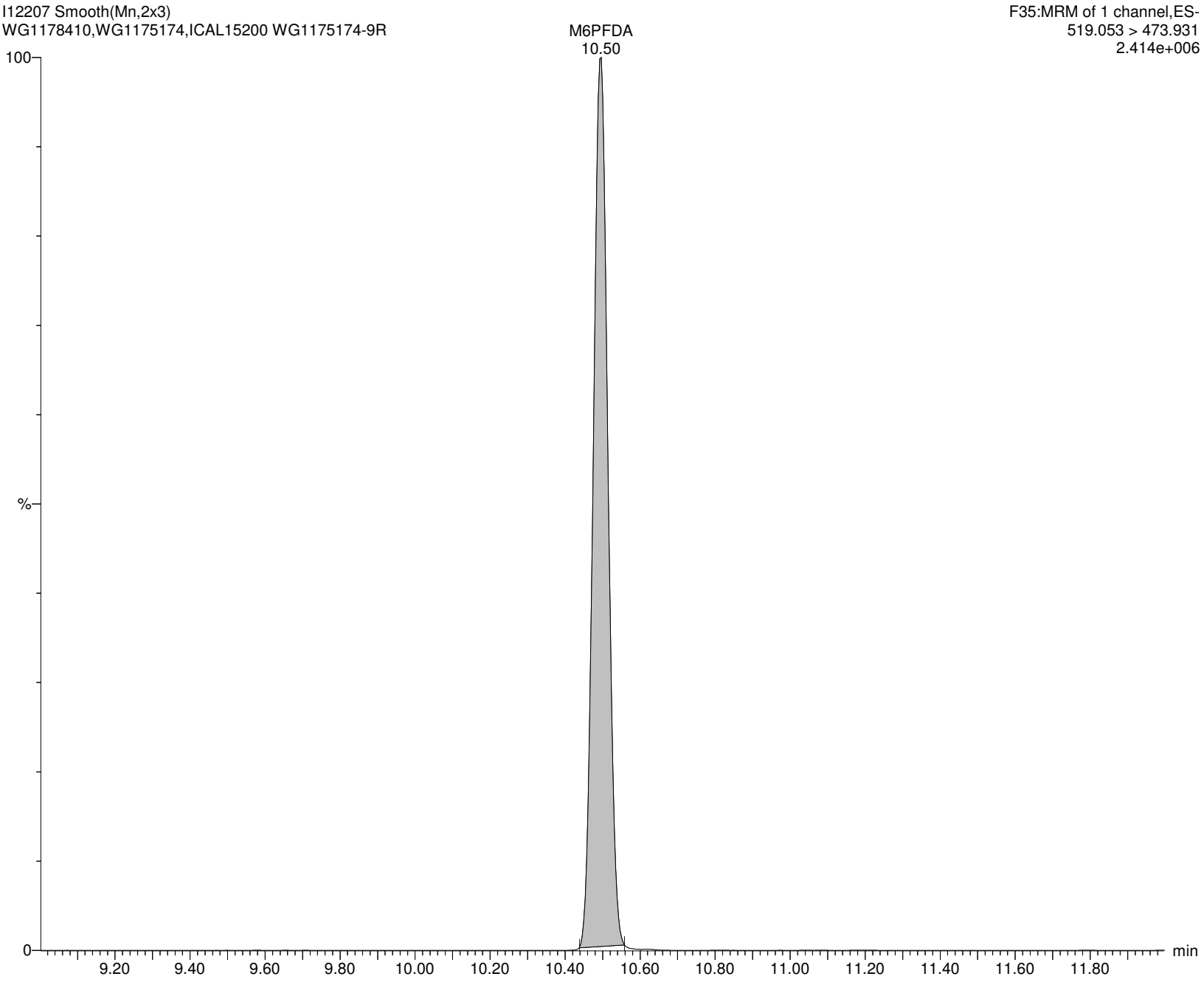

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:45 Eastern Standard Time

Name: I12207
ID: WG1175174-9R
Date: 12-Nov-2018
Time: 19:51:42
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:F,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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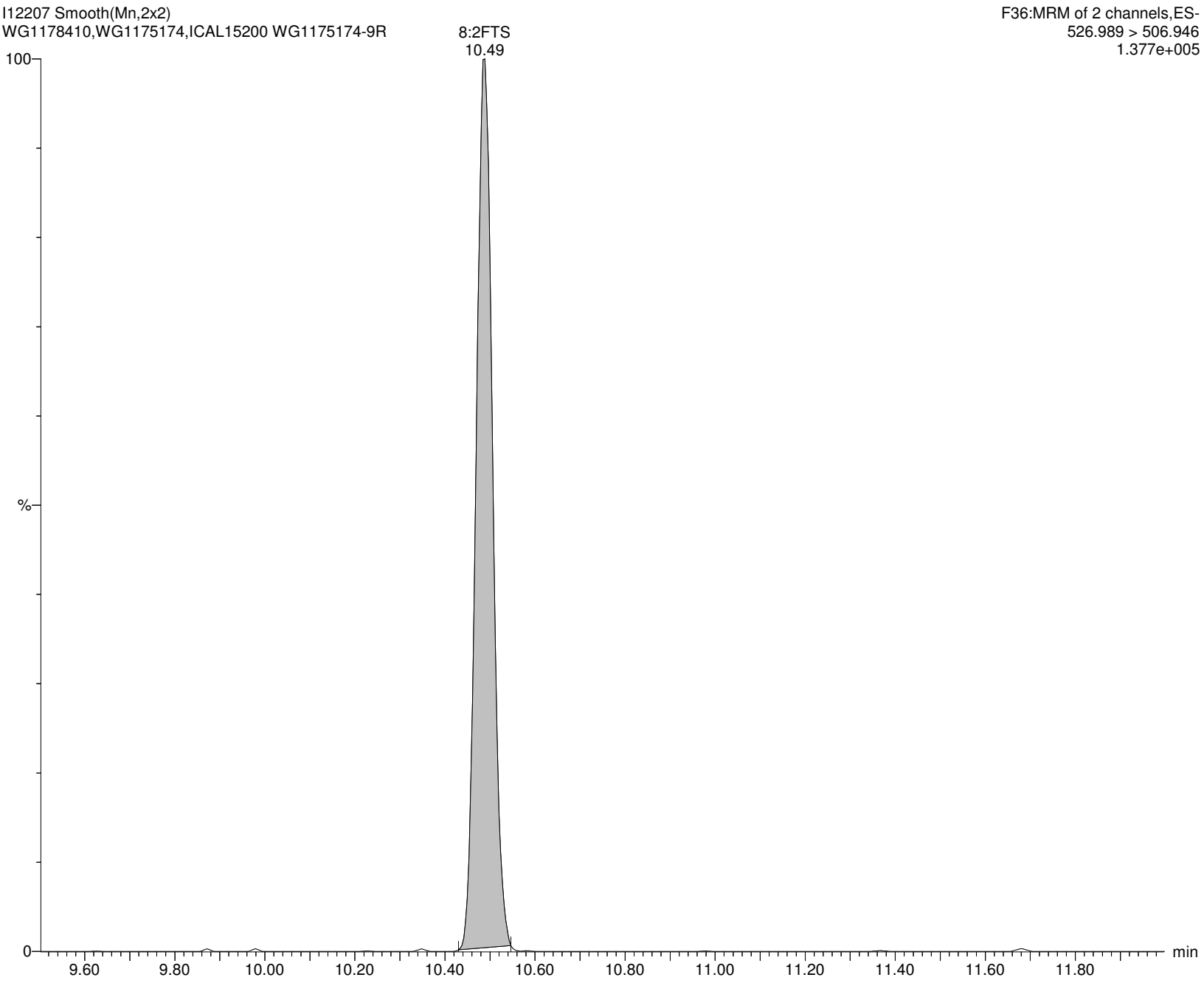

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
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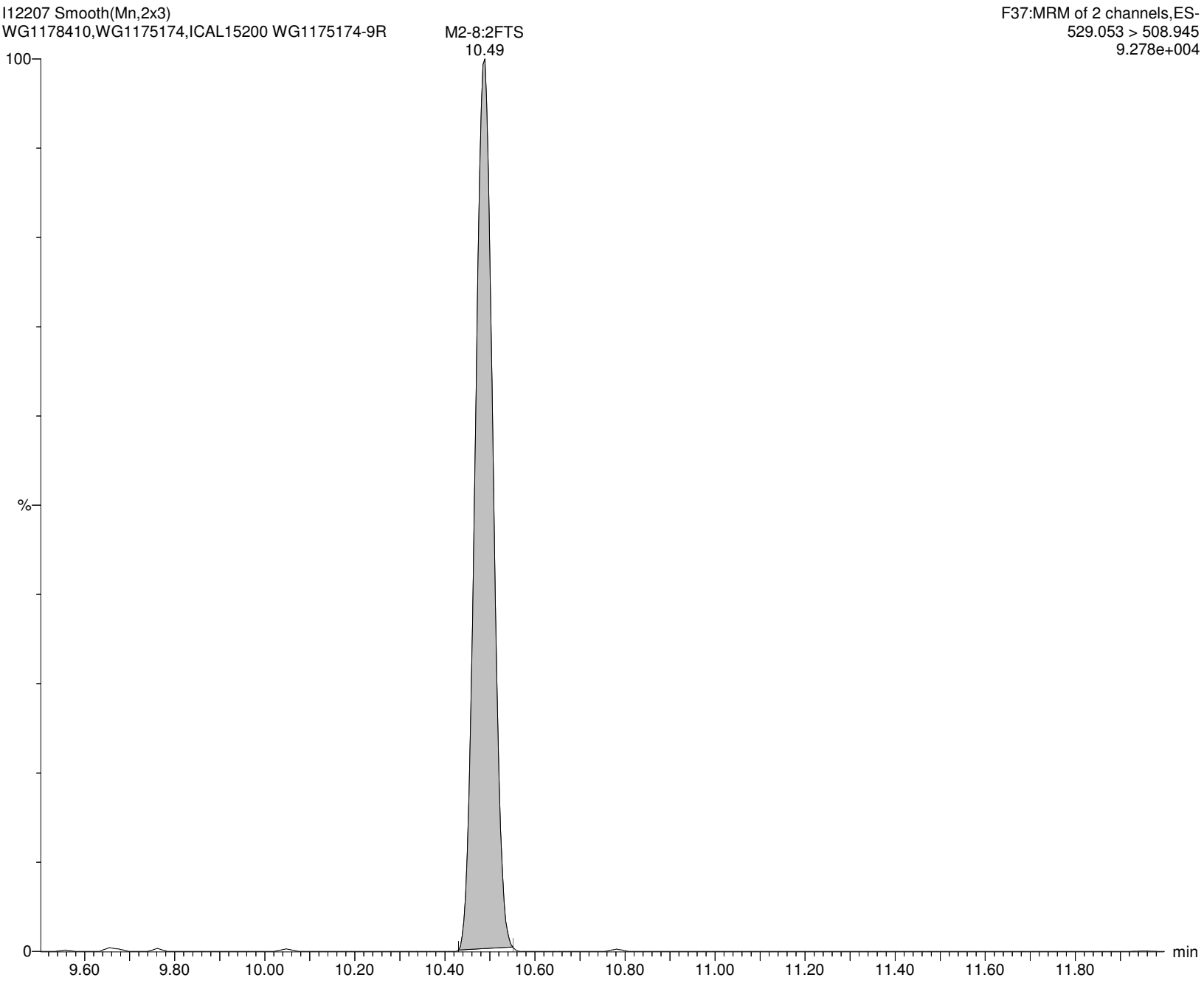

all concentration units in (ng/mL)

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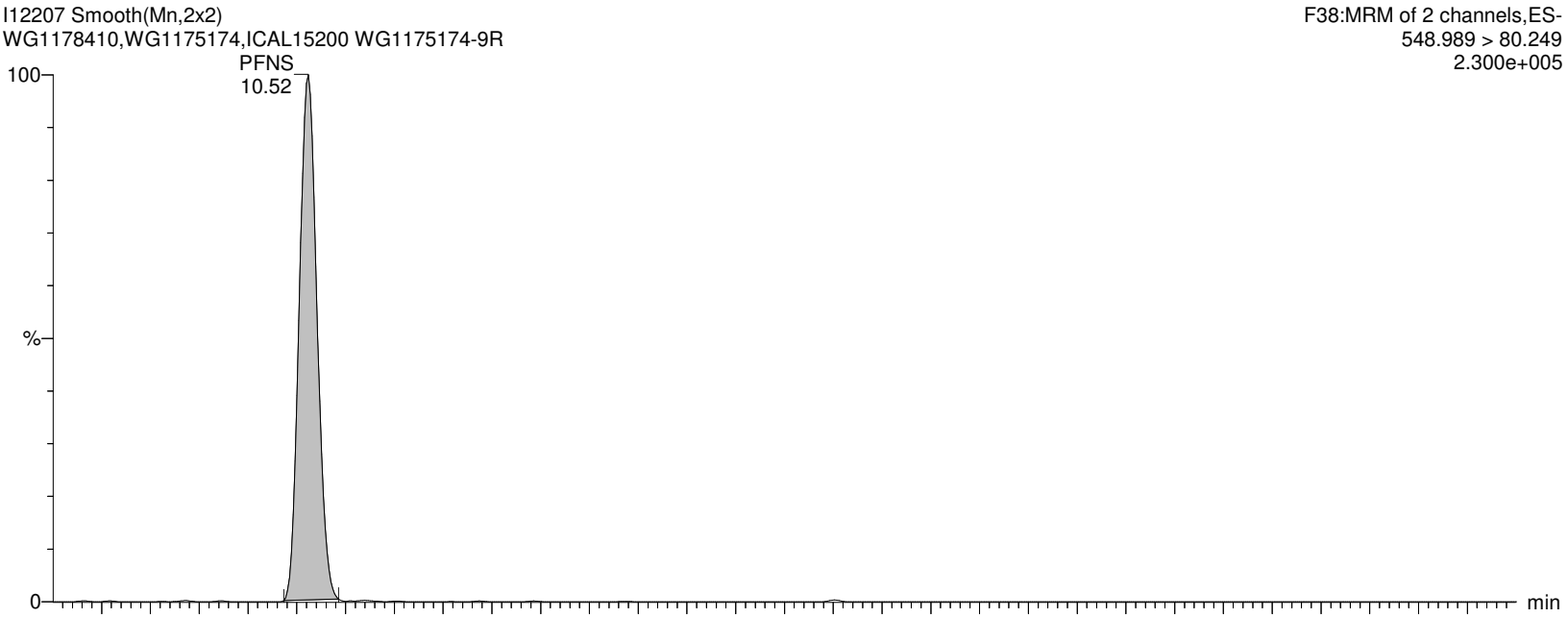

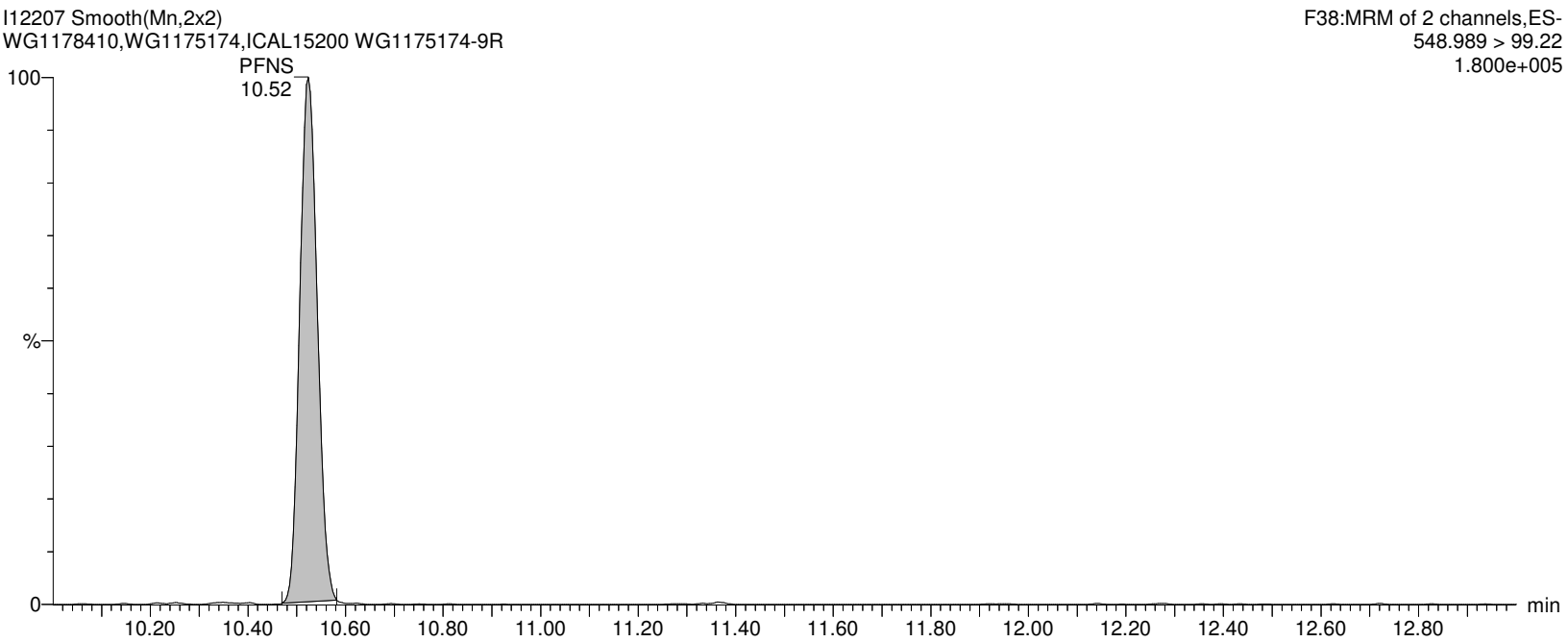

all concentration units in (ng/mL)

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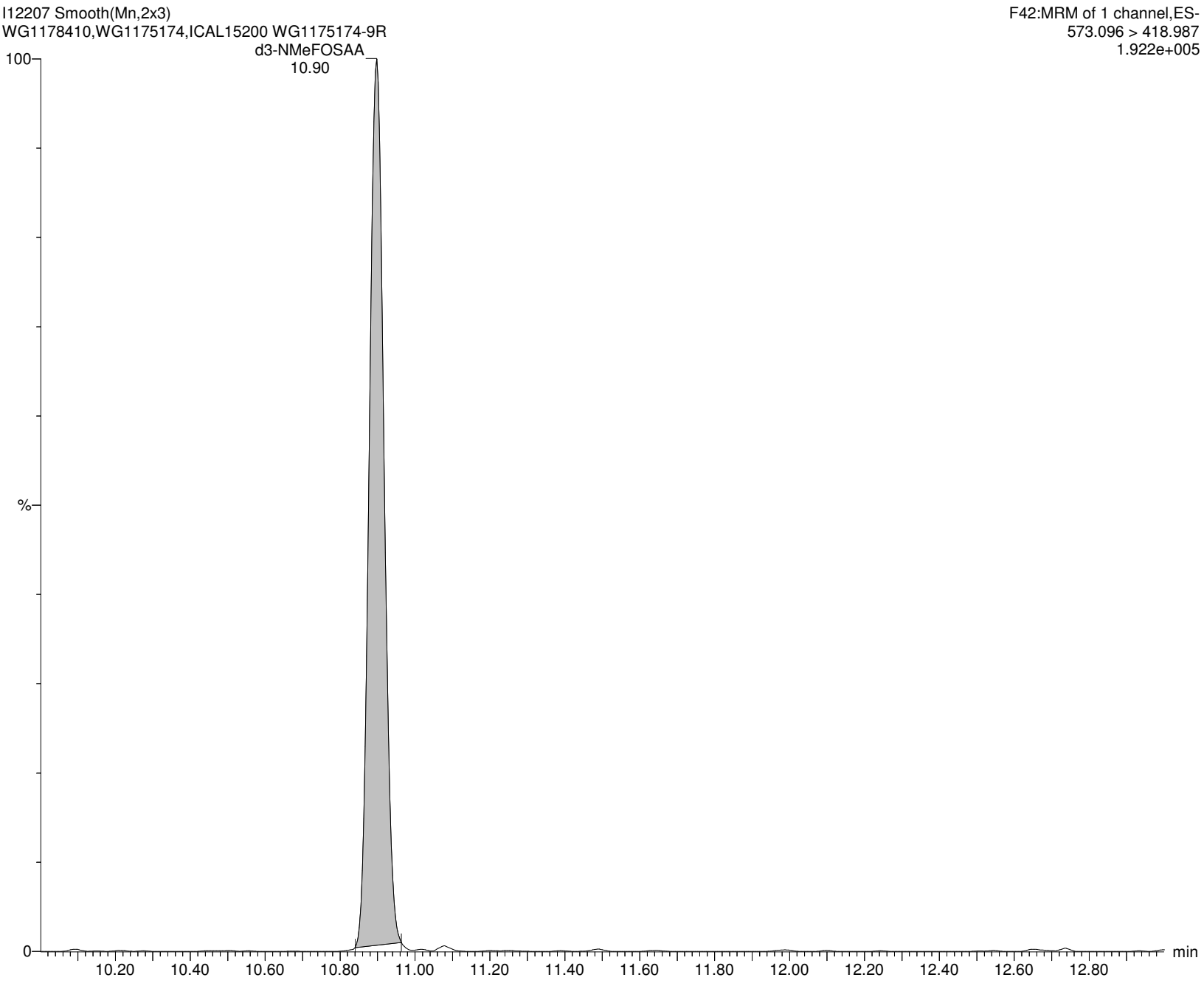
d3-NMeFOSAA



all concentration units in (ng/mL)

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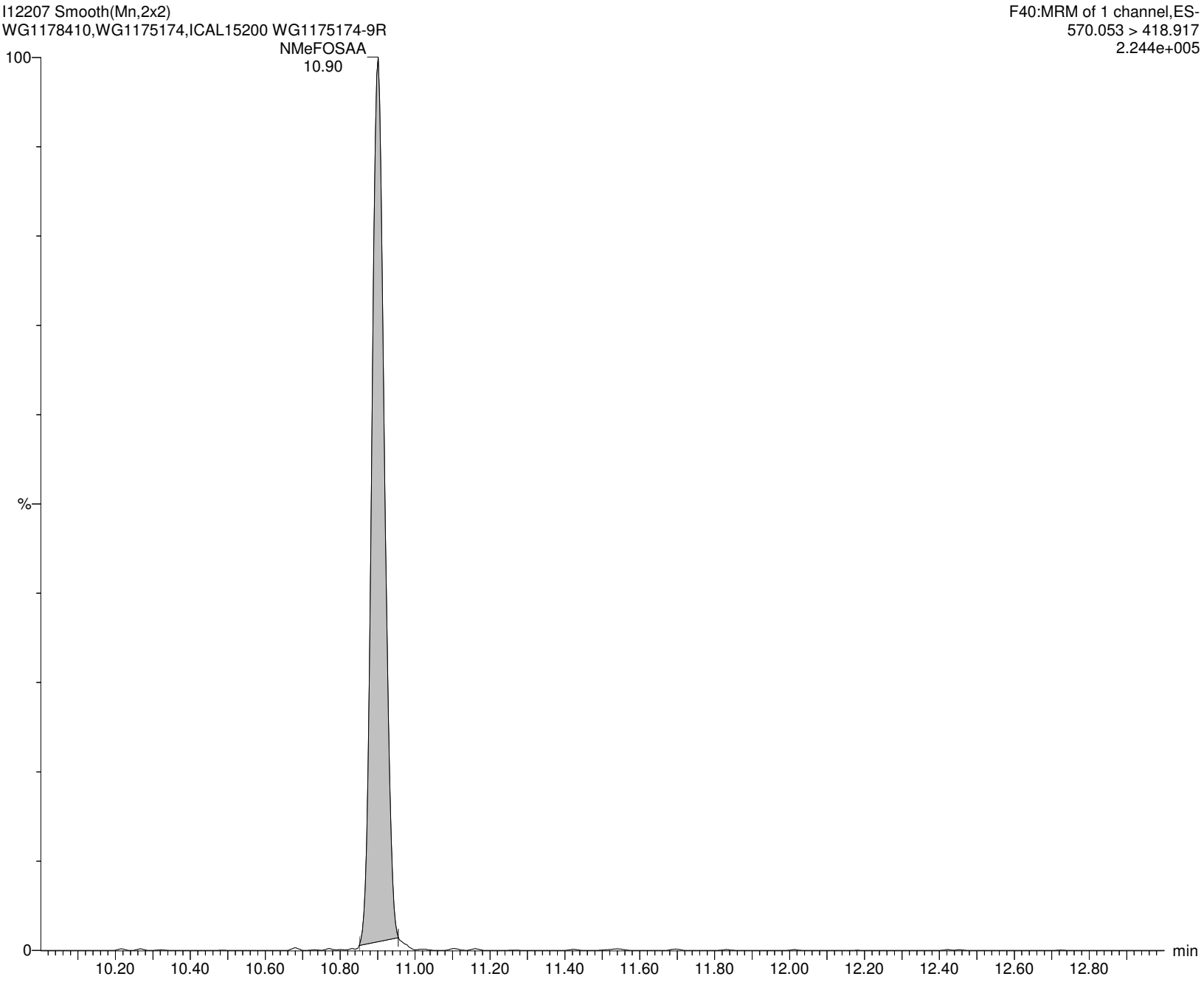
NMeFOSAA



all concentration units in (ng/mL)

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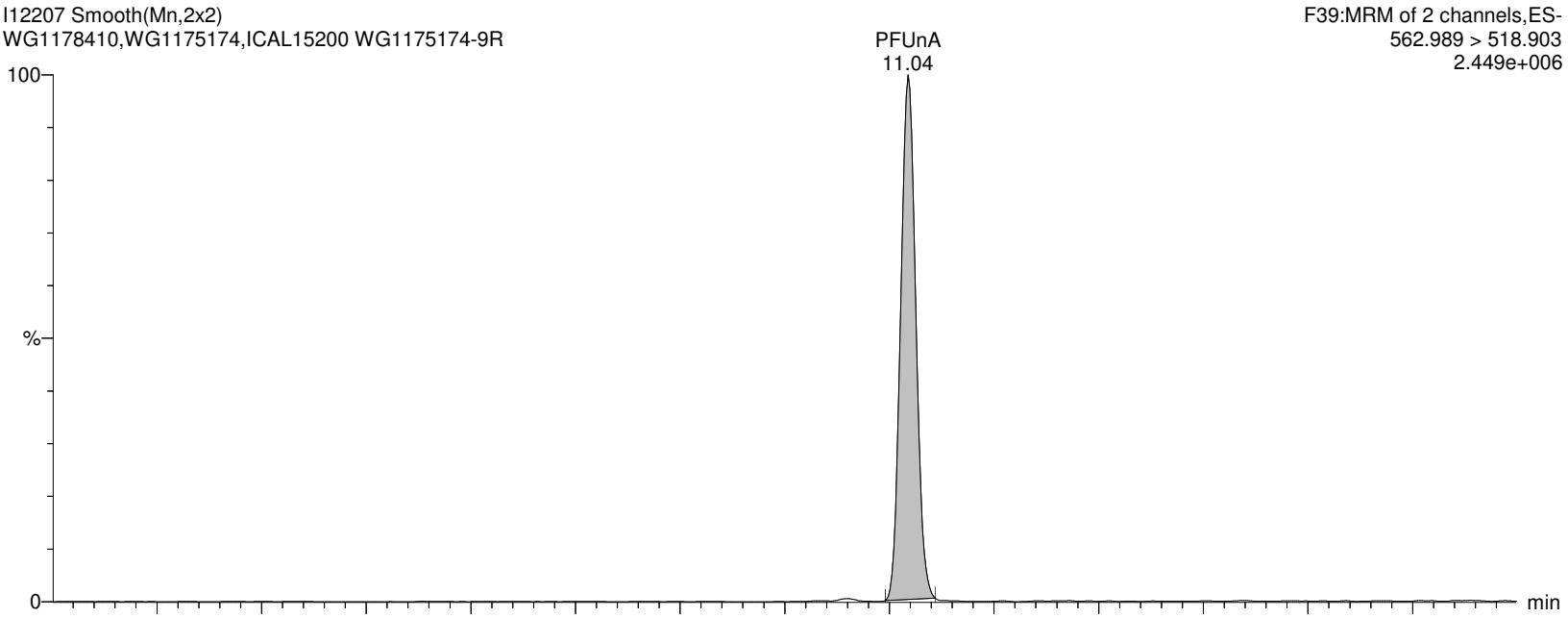

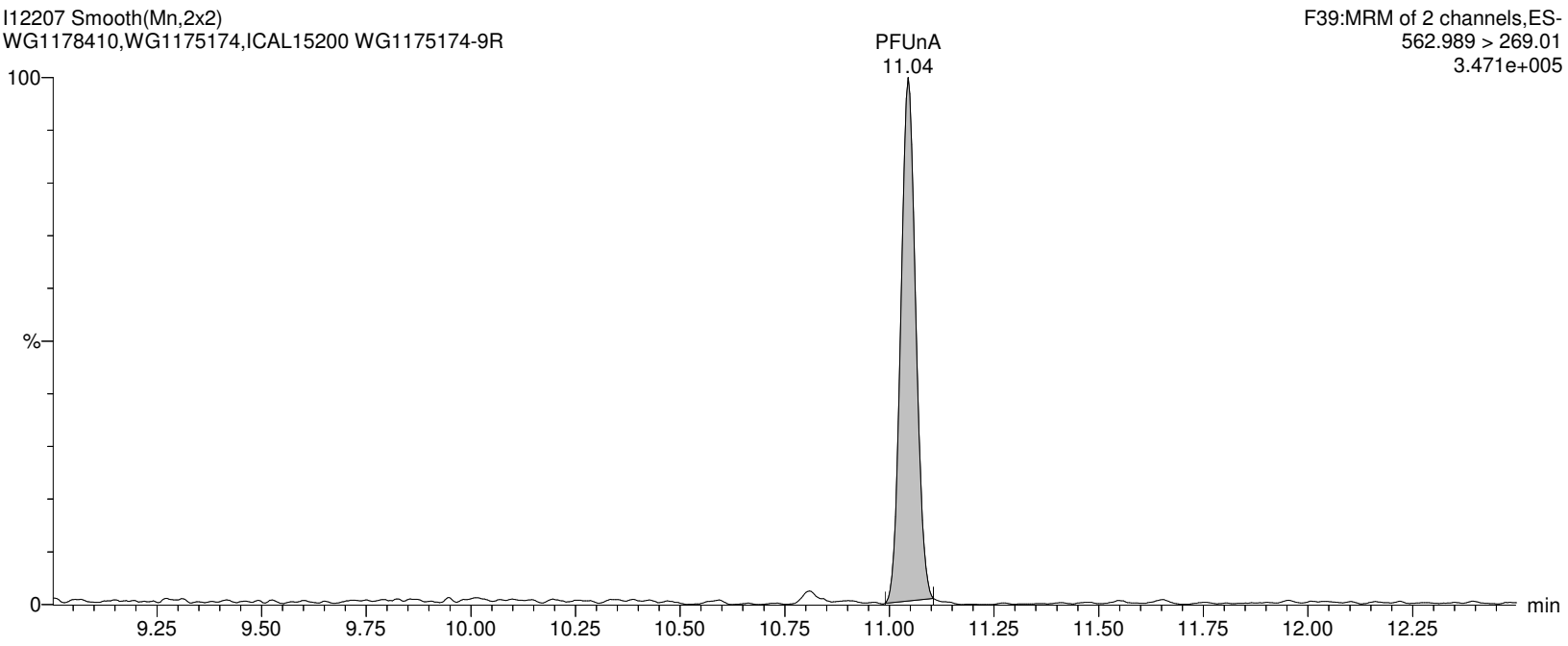

all concentration units in (ng/mL)

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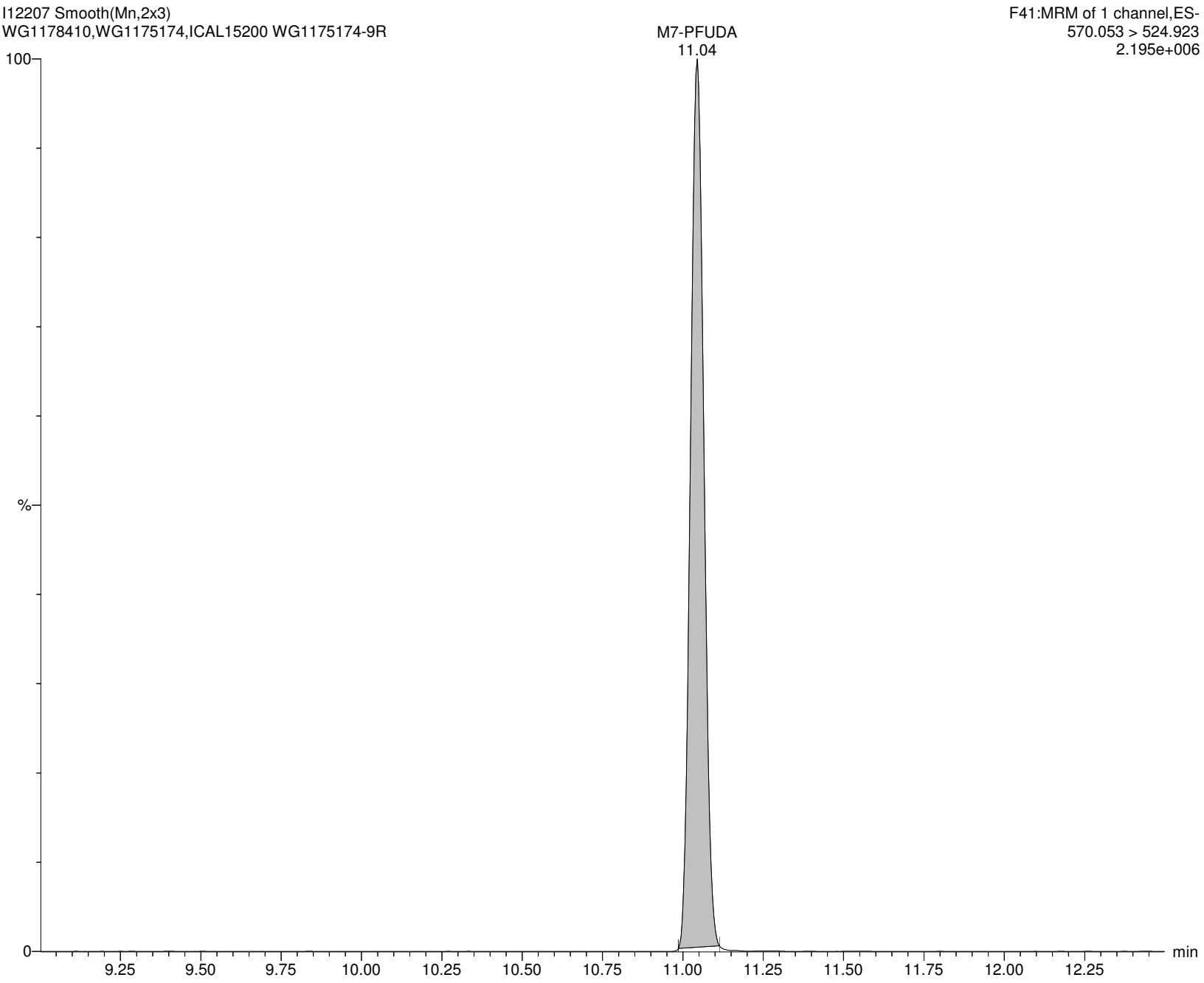

all concentration units in (ng/mL)

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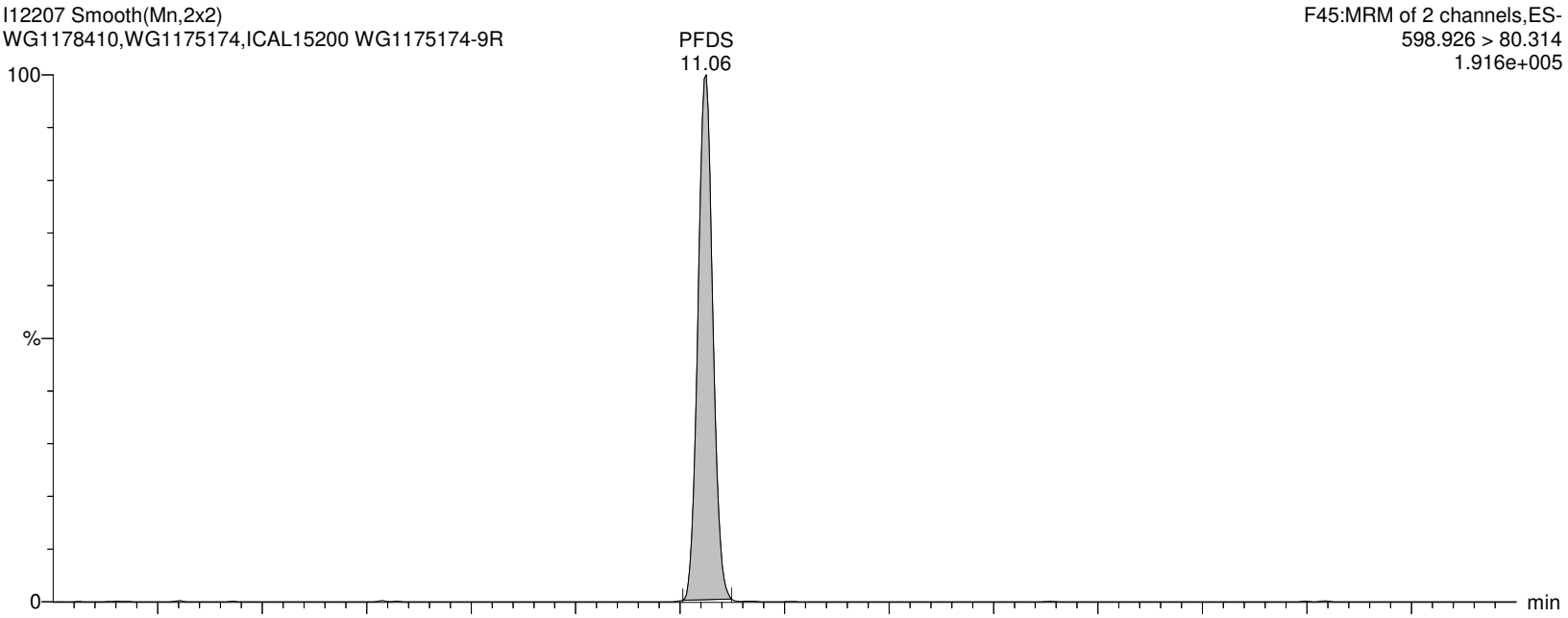
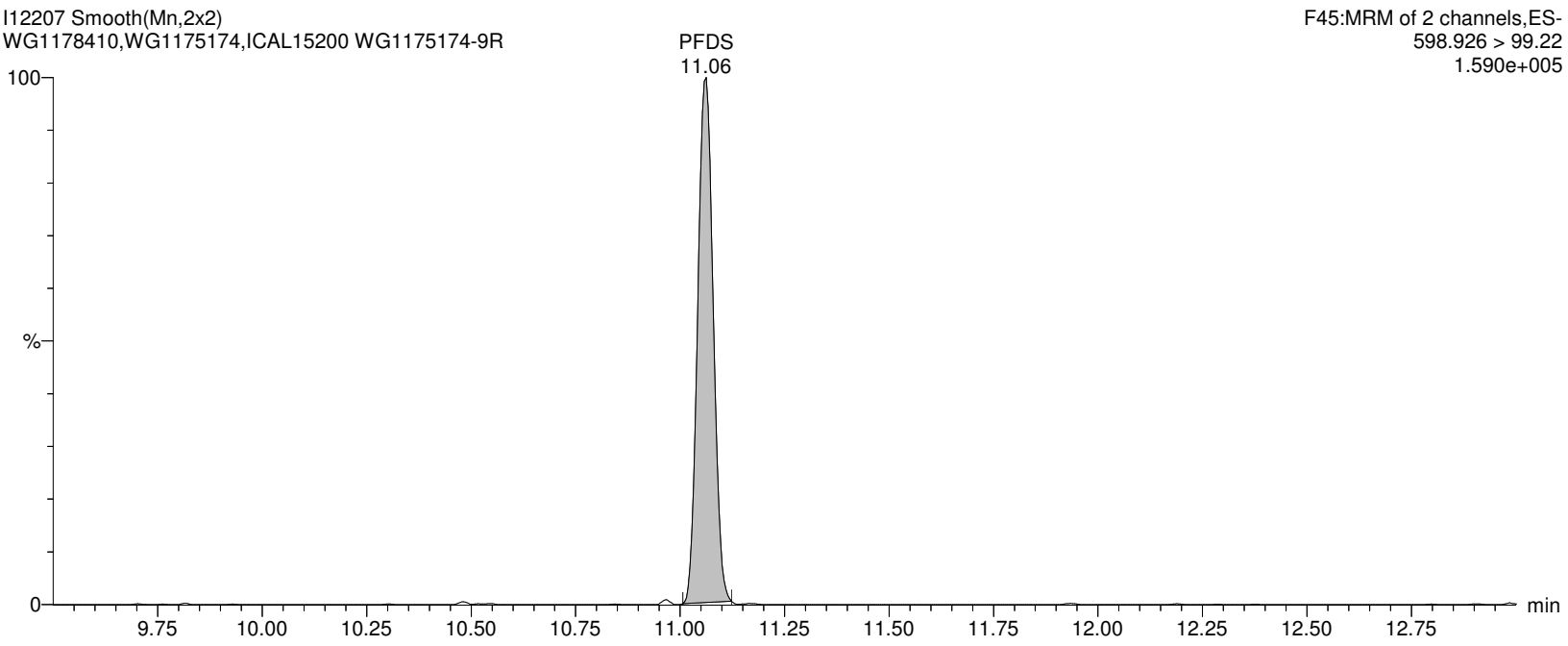
PFDS





all concentration units in (ng/mL)

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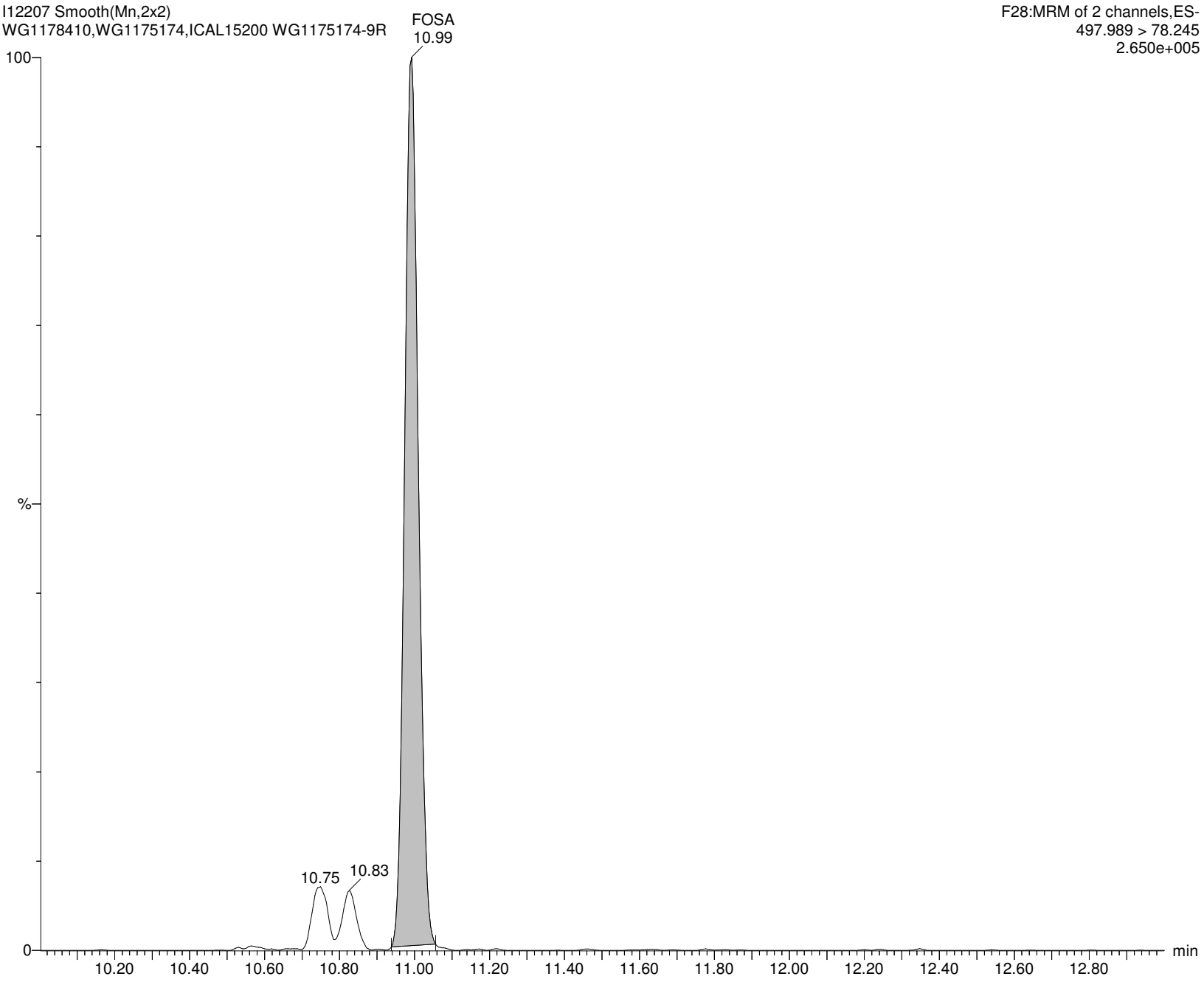

all concentration units in (ng/mL)

Alpha Analytical Inc.
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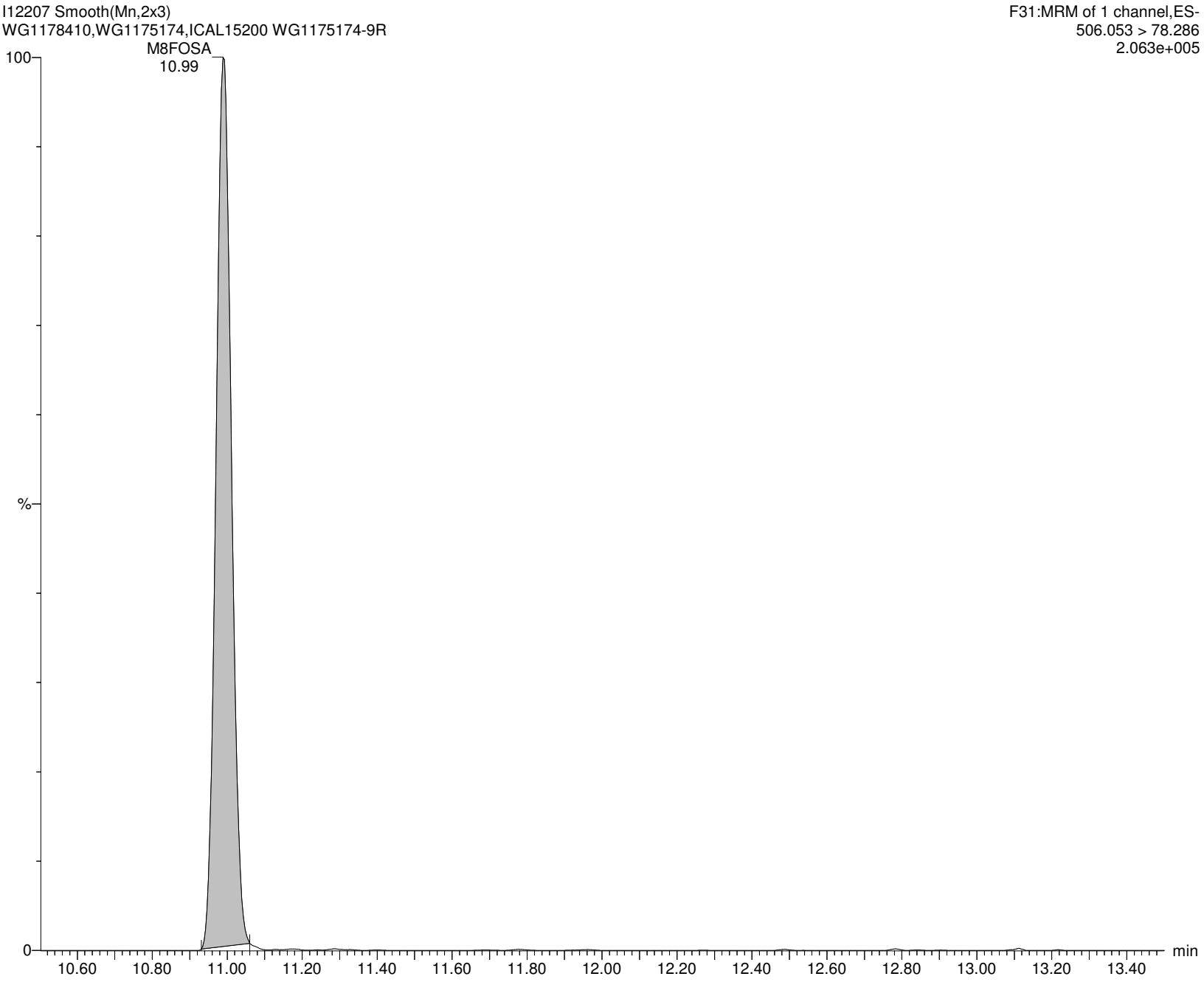

all concentration units in (ng/mL)

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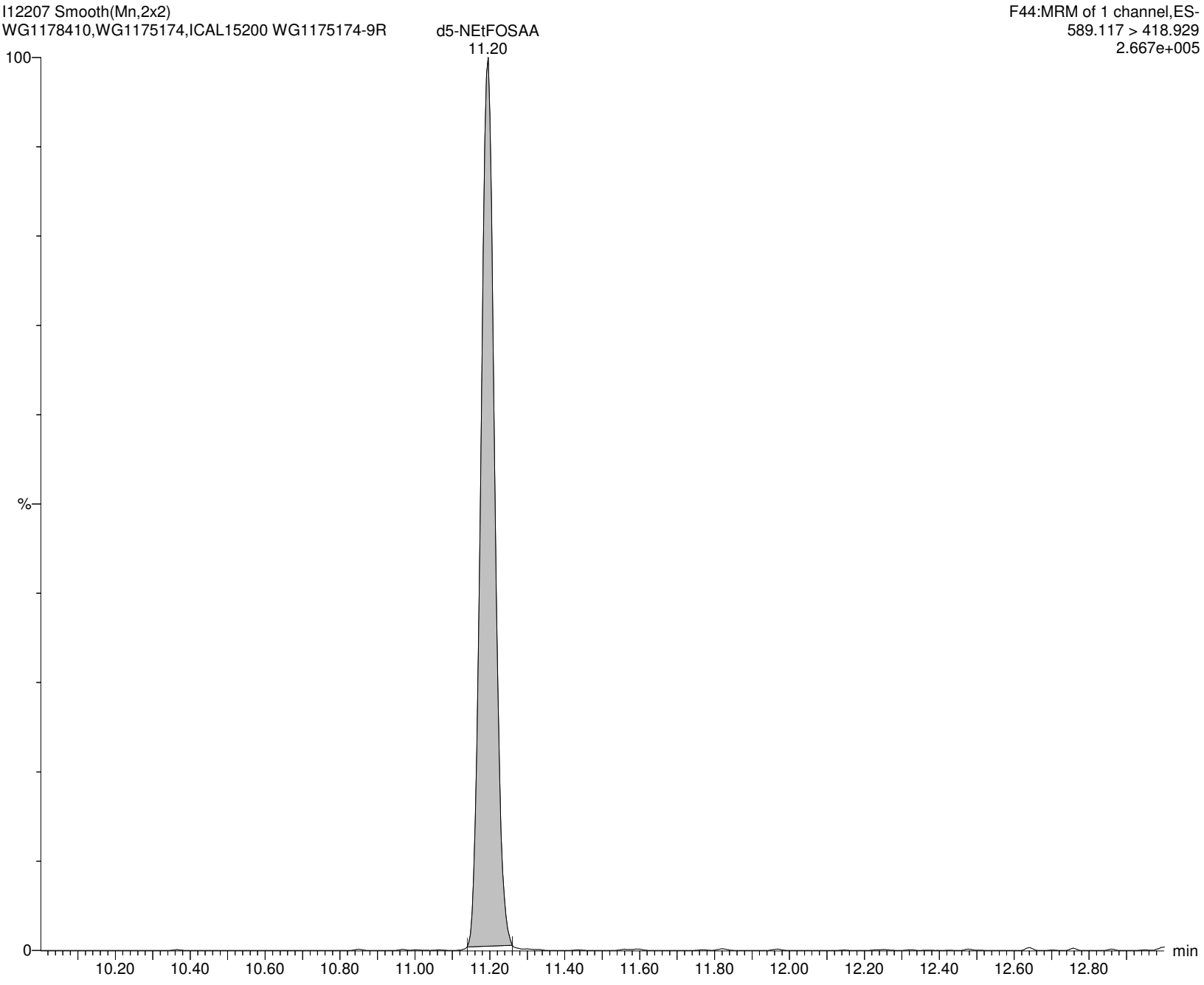
d5-NEtFOSAA



all concentration units in (ng/mL)

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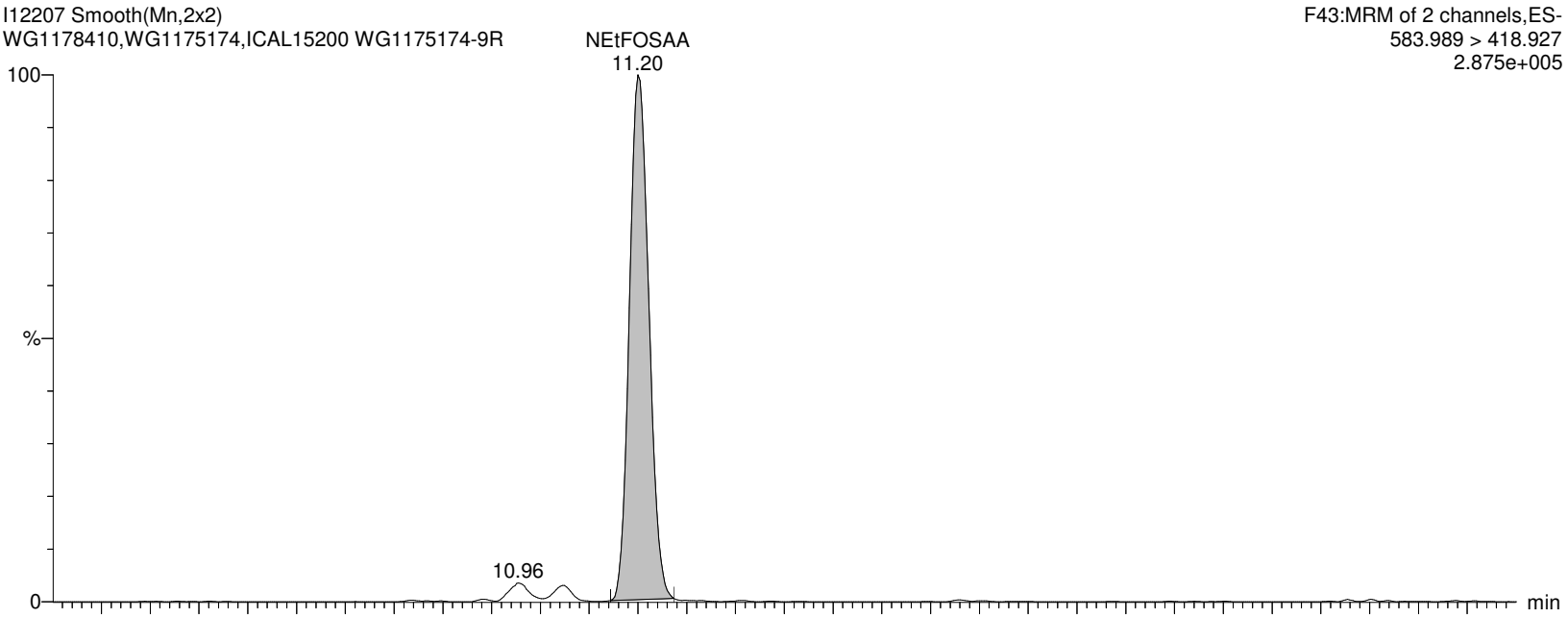

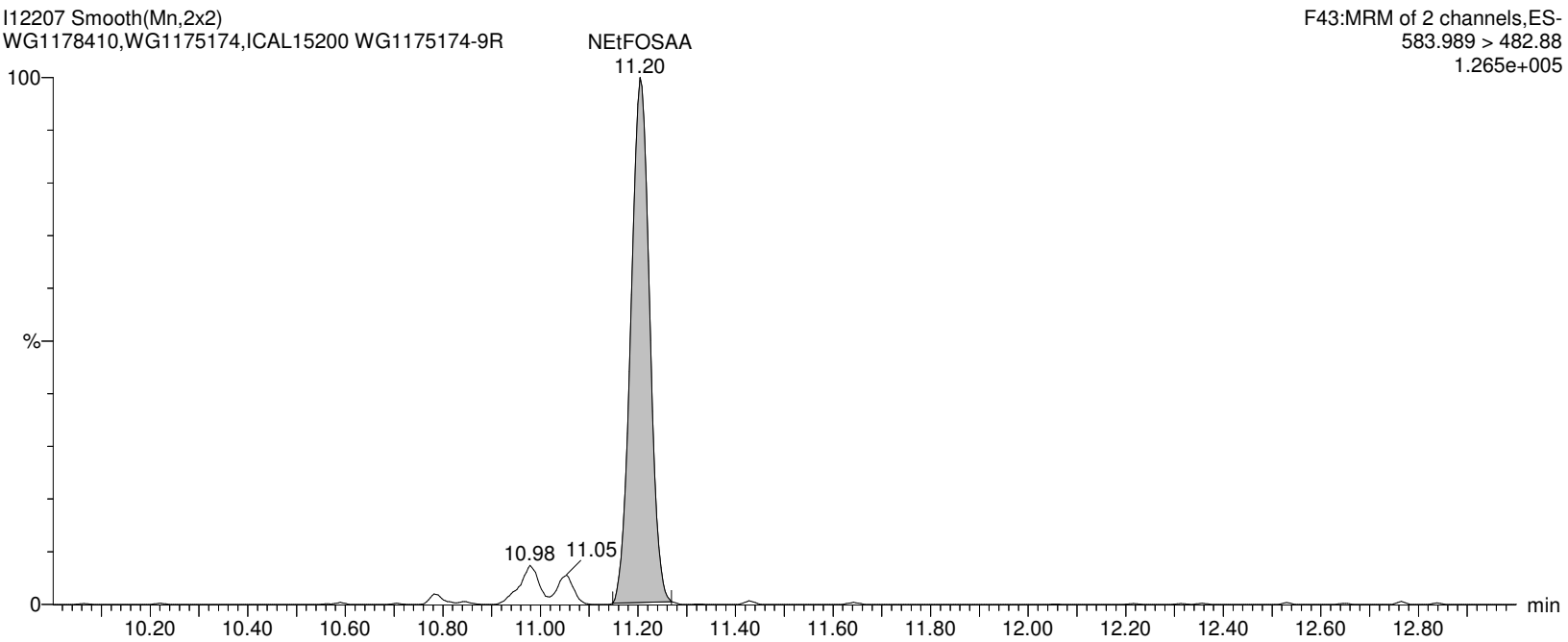

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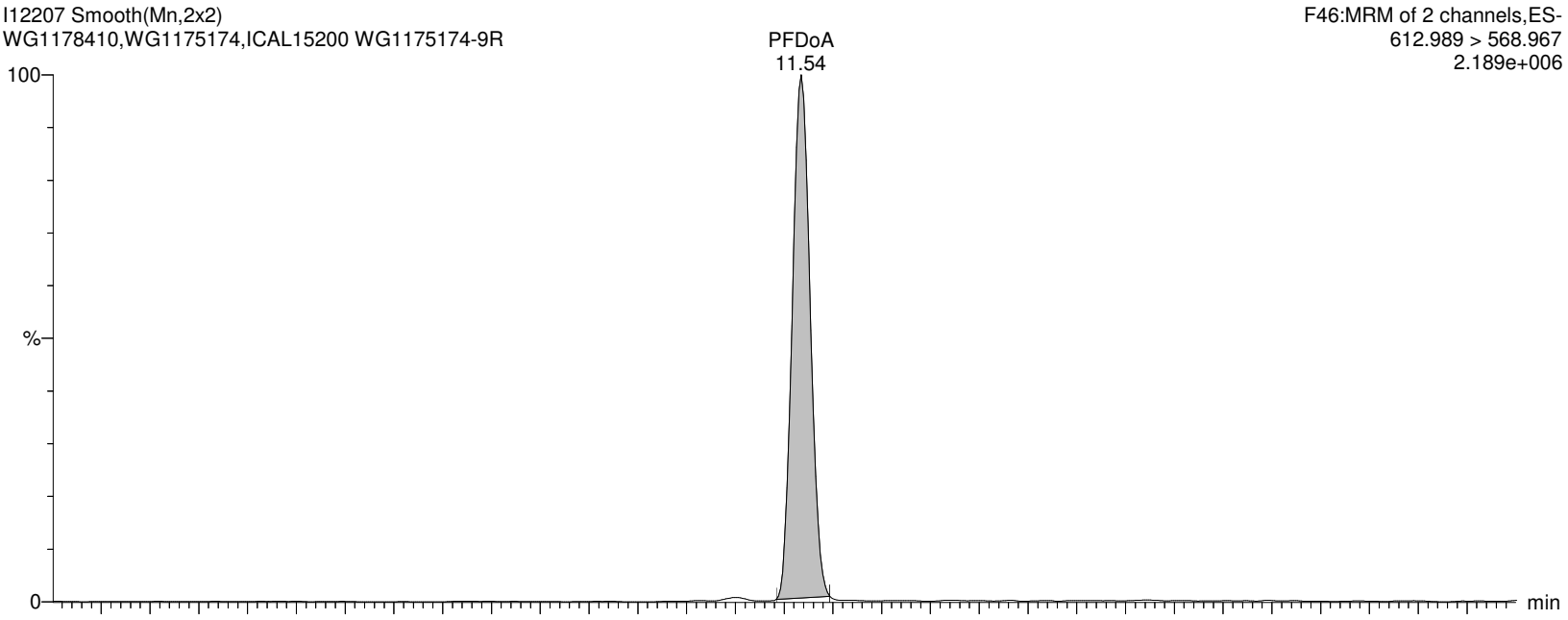

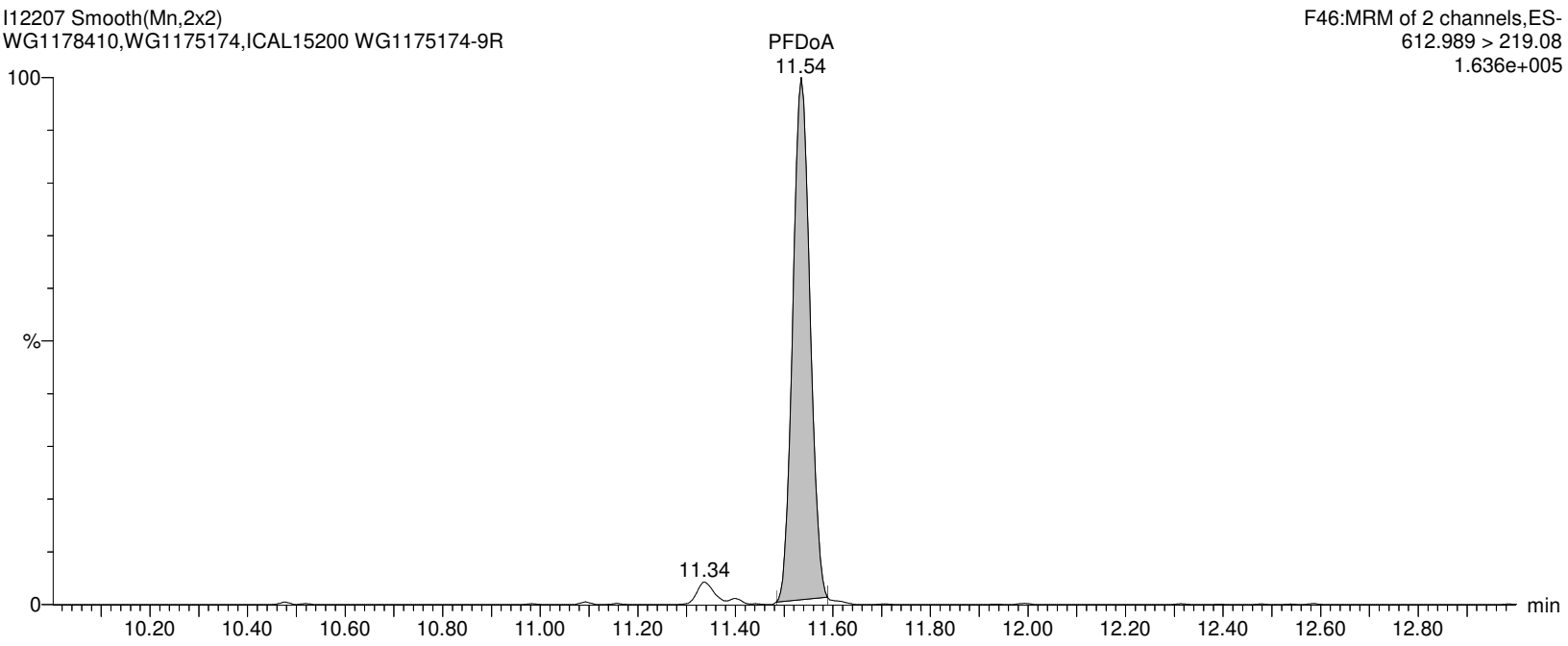

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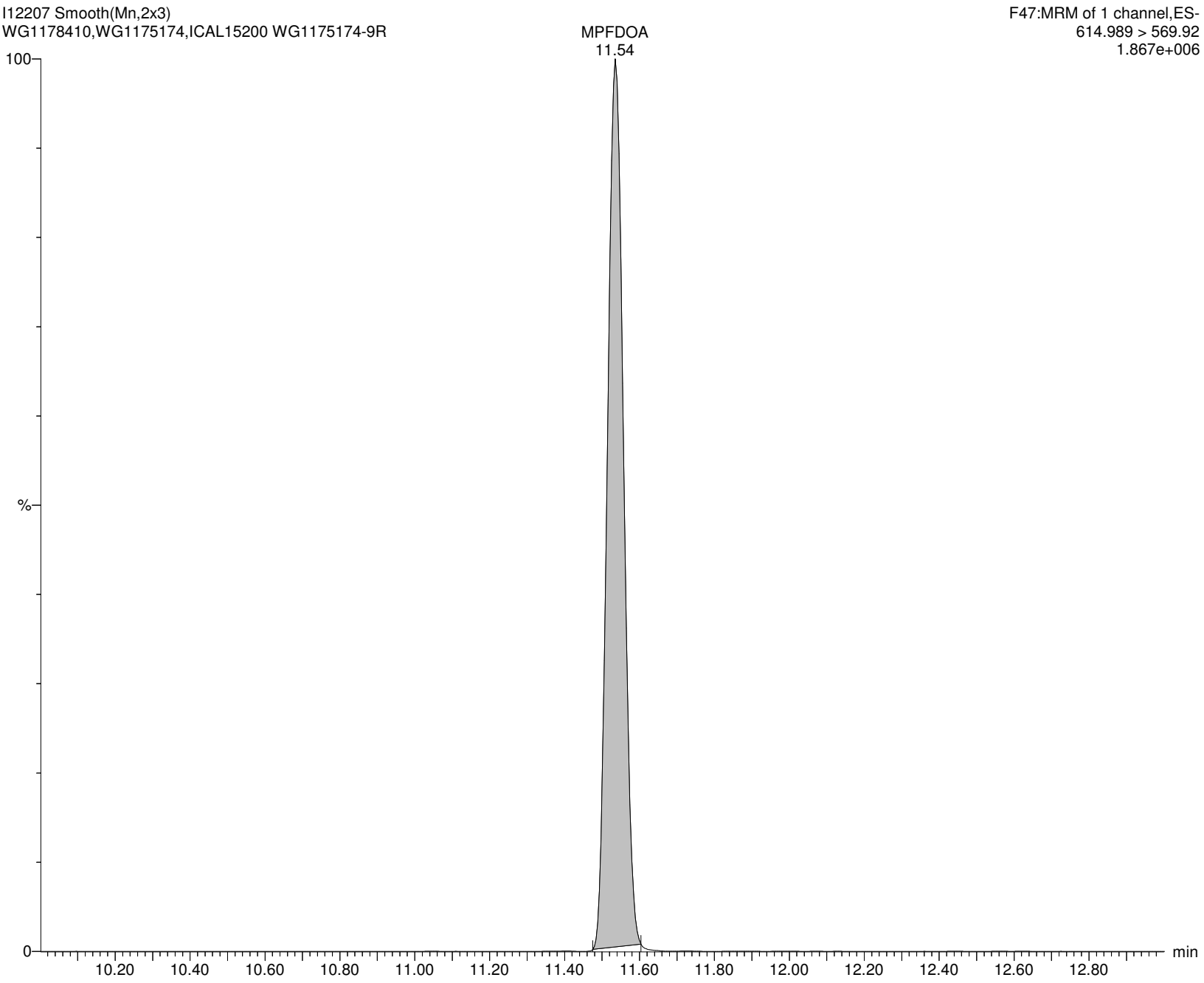

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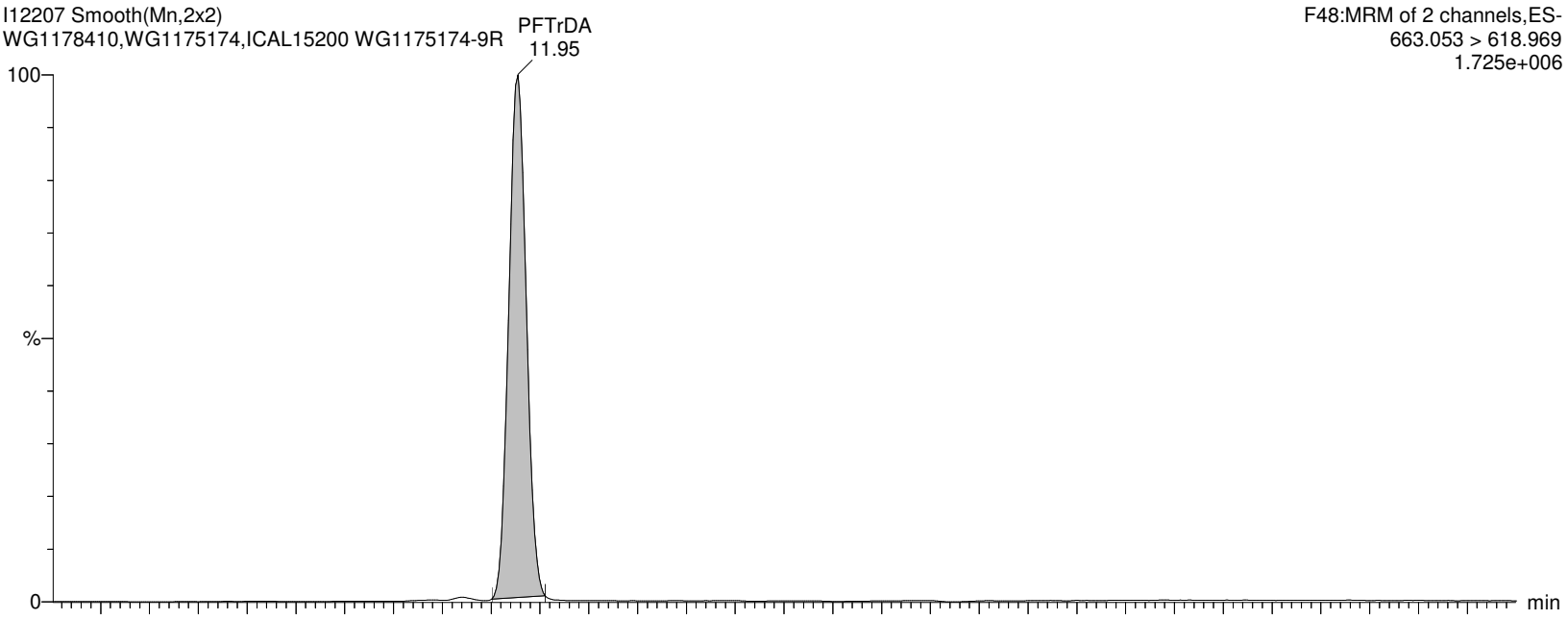

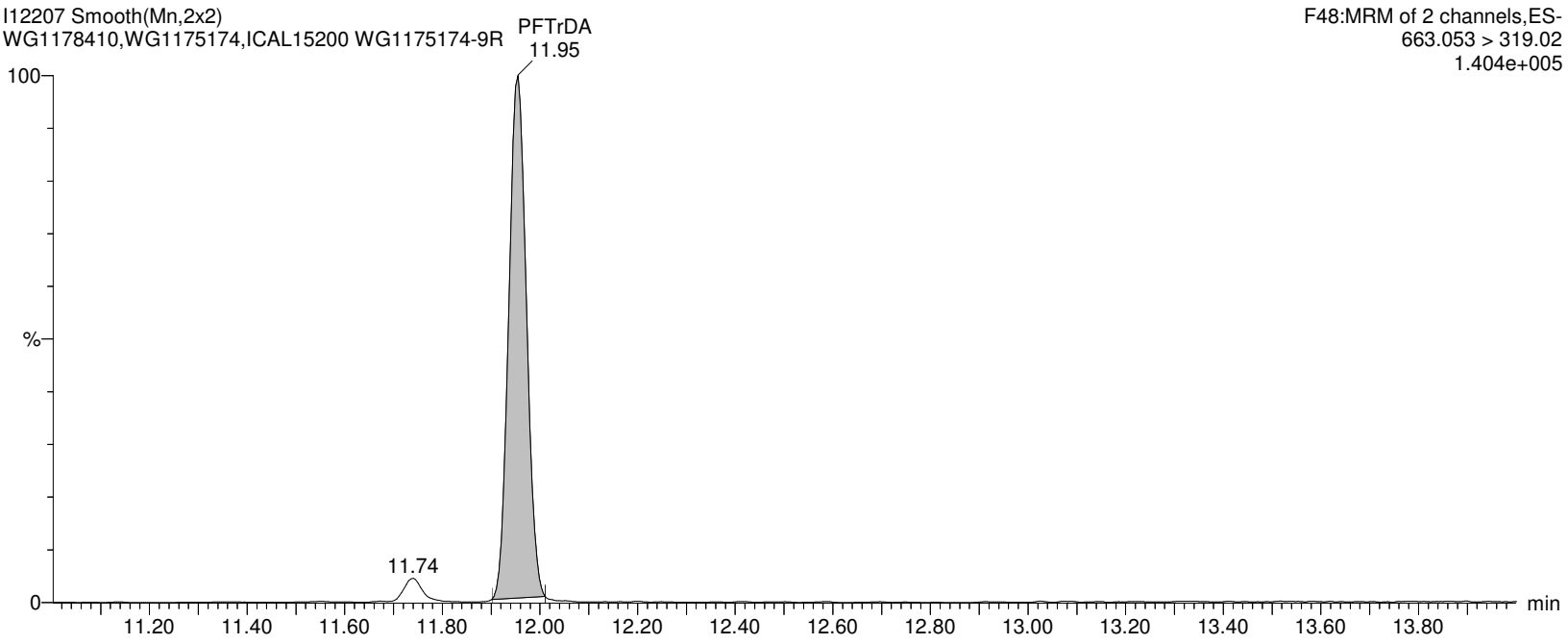

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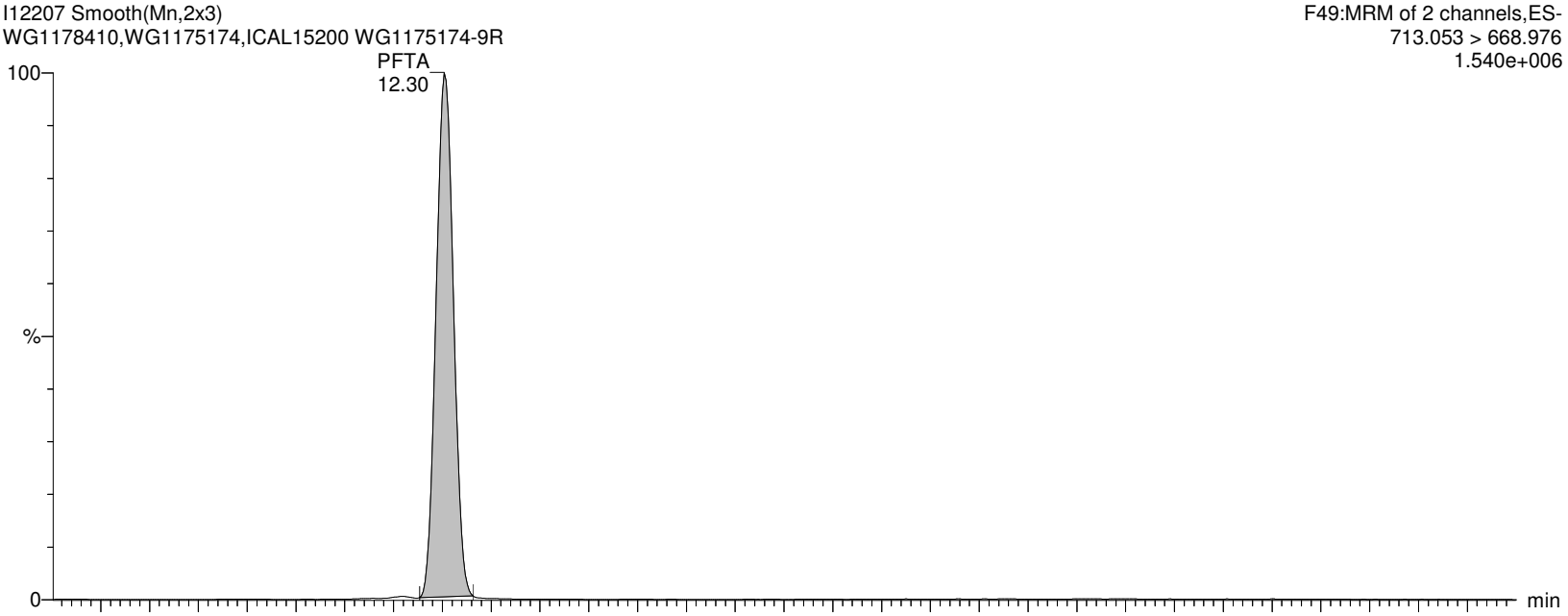
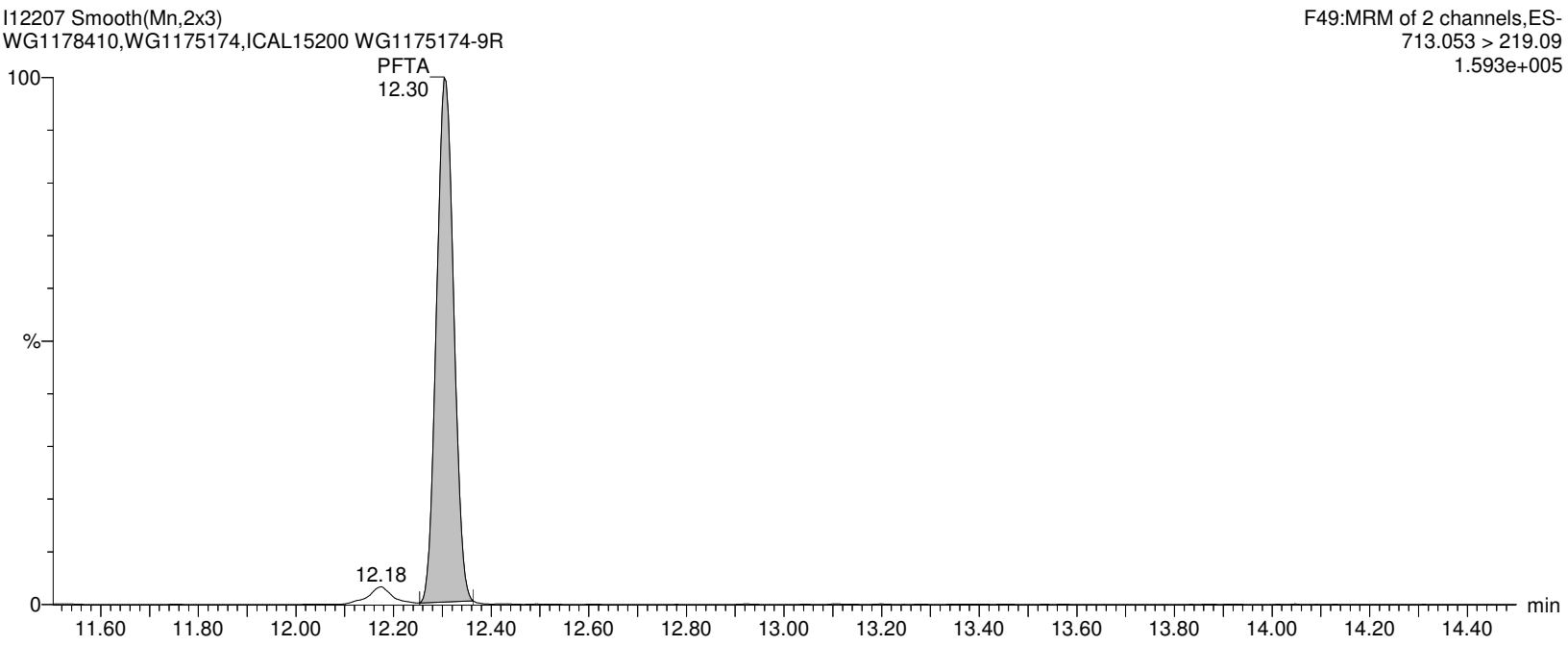
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

PFTA



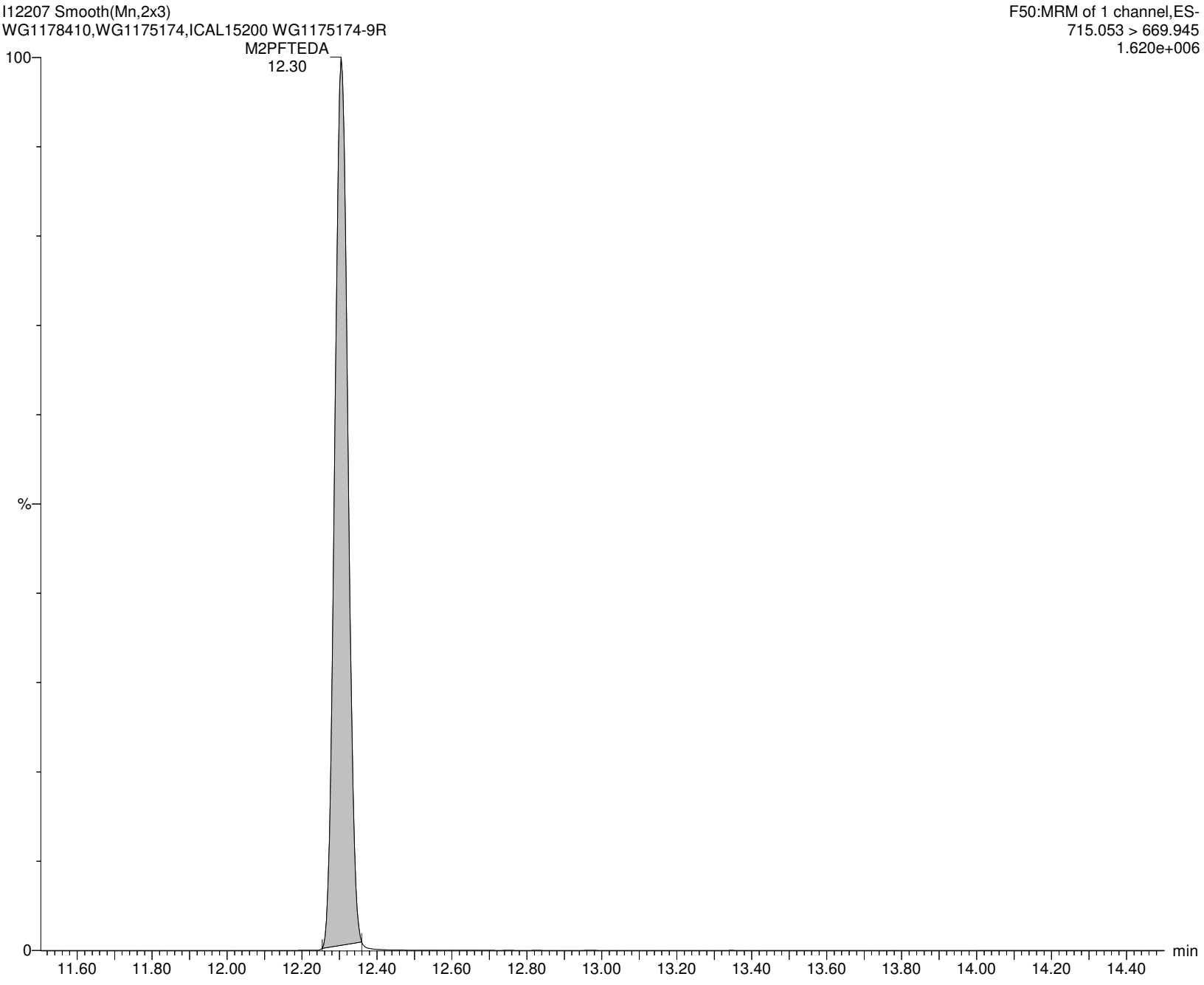


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\181112_537ISO.PRO\Data\wg1178410C.qld
Last Altered: Tuesday, November 13, 2018 10:06:31 Eastern Standard Time
Printed: Tuesday, November 13, 2018 11:21:45 Eastern Standard Time

Name: I12207
ID: WG1175174-9R
Date: 12-Nov-2018
Time: 19:51:42
Description: WG1178410,WG1175174,ICAL15200
User: LCMS01:AJ
Vial: 2:F,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\181101_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\181112_537ISO.PRO\ACQUDB\537ISO28_M_SPAN.EXP

M2PFTEDA



all concentration units in (ng/mL)

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 20 2018, 10:13 am

Work Group: WG1177819 for Department: 32 GC/MS - Semivolatiles

Created: 09-NOV-18 Due: Operator: AJ

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1843568-01	GW3201	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843568-02	GW3206	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843568-03	GW3209	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843568-04	GW DUPLICATE	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843568-05	FIELD BLANK	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-01	SAN-RW-4 (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-02	SAN-RW-6 (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-03	SAN-MW-33A (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-04	SAN-MW-32 (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-05	SAN-RW-3 (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-06	SAN-DUP (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-07	SAN-PDB (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-08	SAN-MW-15A (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1843787-09	SAN-EB (10242018)	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1107	1115	S0	537ISET
L1844318-01	MW-13S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-02	MW-15S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-03	MW-10S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-04	MW-39-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-05	MW-28S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-06	MW-18S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-07	MW-19S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-08	MW-32S-1018P	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-09	MW-12-1018FD	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-10	MW-13-1018FB	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844318-11	MW-14-1018FB	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844333-02	FB05_103018	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844333-03	MW-6_103018	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844333-04	MW-4_103018	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844333-05	MW-3_103018	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-01	20181030SHA	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-02	20181030MZA	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-03	20181030GWA	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-04	20181030GWB	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-05	20181030MZB	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-06	20181030GWC	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-07	20181030GWD	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-08	20181030MZC	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-09	20181030GWE	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844357-10	20181030MZD	S	A2-NH-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
L1844378-01	EQUIPMENT BLANK	S	A2-NY-537-ISOTOPE	WATER	DONE	U	1113	1120	S0	537ISET
WG1173825-1	Laboratory Method Bl	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-2	Laboratory Control S	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-3	LCS Duplicate	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-4	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-5	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-6	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1173825-7	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1175174-4	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1175174-5	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1175174-6	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1175174-7	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1176837-1	Laboratory Method Bl	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1176837-1	Laboratory Method Bl	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1176837-2	Laboratory Control S	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1176837-2	Laboratory Control S	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1176837-3	LCS Duplicate	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1176837-3	LCS Duplicate	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1176837-4	Matrix Spike	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1176837-4	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1176837-5	Duplicate Sample	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1176837-5	Duplicate Sample	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1177819-1	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 20 2018, 10:13 am

Work Group: WG1177819 for Department: 32 GC/MS - Semivolatiles

Created: 09-NOV-18 Due: Operator: AJ

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1177819-1	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-2	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-2	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-3	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-3	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-4	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-4	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-5	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-5	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-6	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-6	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-7	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DONE	U				
WG1177819-7	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1177819-8	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DACQ	U				
WG1177819-8	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1177819-9	Continuing Calibrati	S	A2-NH-537-ISOTOPE	WATER	DACQ	U				
WG1177819-9	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				

Comments:

WG1173825-3	WG1173825-2
WG1173825-4	L1843568-03
WG1173825-5	L1843568-03
WG1173825-6	L1843787-02
WG1173825-7	L1843787-02
WG1175174-4	L1844318-05
WG1175174-5	L1844318-05
WG1175174-6	L1844318-08
WG1175174-7	L1844318-08
WG1176837-3	WG1176837-2
WG1176837-4	L1844333-03
WG1176837-5	L1844357-04

	Vial	File Name	File Text	Sample ID	MS File	MS Tune File	Inlet File
1	2:A,1	I11870	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
2	2:A,1	I11871	MeOH Blank	MeOH Blank1	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
3	2:A,5	I11872	MID CCAL CHECK	MID CCAL CHECK	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
4	---	---	---	---	---	---	---
5	2:A,1	I11873	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
6	2:A,1	I11874	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
7	2:A,1	I11875	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
8	2:A,1	I11876	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
9	2:A,2	I11877	WG1174914	IA2-537STD0.5	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
10	2:A,3	I11878	WG1174914	IA2-537STD5.0	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
11	2:A,4	I11879	WG1174914	IA2-537STD1.0	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
12	2:A,5	I11880	WG1174914	IA2-537STD10.0	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
13	2:A,6	I11881	WG1174914	IA2-537STD50.0	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
14	2:A,7	I11882	WG1174914	IA2-537STD125	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
15	2:A,8	I11883	WG1174914	IA2-537STD150	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
16	2:B,1	I11884	WG1174914	IA2-537STD250	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
17	2:B,2	I11885	WG1174914	IA2-537STD500	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
18	2:A,1	I11886	WG1174914	Instrument Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
19	2:B,3	I11887	WG1174914	CA2-537STD010	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH
20	2:A,1	I11888	MeOH Blank	MeOH Blank	537ISO28_M_SPAN	181101_TUNE	LCMS_537_ISO_MeOH

Inject Volume	Sample Type	Conc A	User
3.0	Analyte	---	LCMS01:AJ
3.0	Analyte	---	LCMS01:AJ
3.0	QC	10	LCMS01:AJ
0.0	---	---	---
3.0	Analyte	---	LCMS01:AJ
3.0	Analyte	---	LCMS01:AJ
3.0	Analyte	---	LCMS01:AJ
3.0	Analyte	---	LCMS01:AJ
3.0	Standard	0.5	LCMS01:AJ
3.0	Standard	5	LCMS01:AJ
3.0	Standard	1	LCMS01:AJ
3.0	Standard	10	LCMS01:AJ
3.0	Standard	50	LCMS01:AJ
3.0	Standard	125	LCMS01:AJ
3.0	Standard	150	LCMS01:AJ
3.0	Standard	250	LCMS01:AJ
3.0	Standard	500	LCMS01:AJ
3.0	Analyte		LCMS01:AJ
3.0	QC	10	LCMS01:AJ
3.0	Analyte	---	LCMS01:AJ

	Vial	File Name	File Text	Sample ID	MS File
1	2:A,1	I12093	MeOH Blank	MeOH Blank	537ISO28_M_SPAN
2	2:A,1	I12094	MeOH Blank	MeOH Blank	537ISO28_M_SPAN
3	2:A,2	I12095	WG1177819,WG1176837,ICAL15200,537ILOW	WG1177819-1,537ILOW	537ISO28_M_SPAN
4	2:B,1	I12096	WG1177819,WG1176837,ICAL15200	WG1176837-1	537ISO28_M_SPAN
5	2:B,2	I12097	WG1177819,WG1176837,ICAL15200	WG1176837-2	537ISO28_M_SPAN
6	2:B,3	I12098	WG1177819,WG1176837,ICAL15200	WG1176837-3	537ISO28_M_SPAN
7	2:B,4	I12099	WG1177819,WG1176837,ICAL15200	L1844507-02RE	537ISO28_M_SPAN
8	2:B,5	I12100	WG1177819,WG1176837,ICAL15200	L1844333-02	537ISO28_M_SPAN
9	2:B,6	I12101	WG1177819,WG1176837,ICAL15200	L1844333-03	537ISO28_M_SPAN
10	2:B,7	I12102	WG1177819,WG1176837,ICAL15200	WG1176837-4	537ISO28_M_SPAN
11	2:B,8	I12103	WG1177819,WG1176837,ICAL15200	L1844333-04	537ISO28_M_SPAN
12	2:C,1	I12104	WG1177819,WG1176837,ICAL15200	L1844333-05	537ISO28_M_SPAN
13	2:C,2	I12105	WG1177819,WG1176837,ICAL15200	L1844357-01	537ISO28_M_SPAN
14	2:C,3	I12106	WG1177819,WG1176837,ICAL15200	L1844357-02	537ISO28_M_SPAN
15	2:C,4	I12107	WG1177819,WG1176837,ICAL15200	L1844357-03	537ISO28_M_SPAN
16	2:C,5	I12108	WG1177819,WG1176837,ICAL15200	L1844357-04	537ISO28_M_SPAN
17	2:C,6	I12109	WG1177819,WG1176837,ICAL15200	WG1176837-5	537ISO28_M_SPAN
18	2:A,3	I12110	WG1177819,WG1176837,ICAL15200,537IMED	WG1177819-2,537IMED	537ISO28_M_SPAN
19	2:C,7	I12111	WG1177819,WG1176837,ICAL15200	L1844357-05	537ISO28_M_SPAN
20	2:C,8	I12112	WG1177819,WG1176837,ICAL15200	L1844357-06	537ISO28_M_SPAN
21	2:D,1	I12113	WG1177819,WG1176837,ICAL15200	L1844357-07	537ISO28_M_SPAN
22	2:D,2	I12114	WG1177819,WG1176837,ICAL15200	L1844357-08	537ISO28_M_SPAN
23	2:D,3	I12115	WG1177819,WG1176837,ICAL15200	L1844357-09	537ISO28_M_SPAN
24	2:D,4	I12116	WG1177819,WG1176837,ICAL15200	L1844357-10	537ISO28_M_SPAN
25	2:D,5	I12117	WG1177819,WG1176837,ICAL15200	L1844357-11	537ISO28_M_SPAN
26	2:D,6	I12118	WG1177819,WG1176837,ICAL15200	L1844357-12	537ISO28_M_SPAN
27	2:D,7	I12119	WG1177819,WG1176837,ICAL15200	L1844357-13	537ISO28_M_SPAN
28	2:D,8	I12120	WG1177819,WG1176837,ICAL15200	L1844357-14	537ISO28_M_SPAN
29	2:A,2	I12121	WG1177819,WG1176837,ICAL15200,537ILOW	WG1177819-3,537ILOW	537ISO28_M_SPAN
30	2:E,1	I12122	WG1177819,WG1173825,ICAL15200	WG1173825-1	537ISO28_M_SPAN
31	2:E,2	I12123	WG1177819,WG1173825,ICAL15200	WG1173825-2	537ISO28_M_SPAN
32	2:E,3	I12124	WG1177819,WG1173825,ICAL15200	WG1173825-3	537ISO28_M_SPAN
33	2:E,4	I12125	WG1177819,WG1173825,ICAL15200	L1843568-01	537ISO28_M_SPAN
34	2:E,5	I12126	WG1177819,WG1173825,ICAL15200	L1843568-02	537ISO28_M_SPAN
35	2:E,6	I12127	WG1177819,WG1173825,ICAL15200	L1843568-03	537ISO28_M_SPAN
36	2:E,7	I12128	WG1177819,WG1173825,ICAL15200	WG1173825-4	537ISO28_M_SPAN
37	2:E,8	I12129	WG1177819,WG1173825,ICAL15200	WG1173825-5	537ISO28_M_SPAN
38	2:F,1	I12130	WG1177819,WG1173825,ICAL15200	L1843568-04	537ISO28_M_SPAN
39	2:F,2	I12131	WG1177819,WG1173825,ICAL15200	L1843568-05	537ISO28_M_SPAN
40	2:F,3	I12132	WG1177819,WG1173825,ICAL15200	L1843787-01	537ISO28_M_SPAN
41	2:F,4	I12133	WG1177819,WG1173825,ICAL15200	L1843787-02	537ISO28_M_SPAN
42	2:F,5	I12134	WG1177819,WG1173825,ICAL15200	WG1173825-6	537ISO28_M_SPAN
43	2:F,6	I12135	WG1177819,WG1173825,ICAL15200	WG1173825-7	537ISO28_M_SPAN
44	2:A,3	I12136	WG1177819,WG1173825,ICAL15200,537IMED	WG1177819-4,537IMED	537ISO28_M_SPAN
45	2:F,7	I12137	WG1177819,WG1173825,ICAL15200	L1843787-03	537ISO28_M_SPAN
46	2:F,8	I12138	WG1177819,WG1173825,ICAL15200	L1843787-04	537ISO28_M_SPAN
47	1:B,1	I12139	WG1177819,WG1173825,ICAL15200	L1843787-05	537ISO28_M_SPAN
48	1:B,2	I12140	WG1177819,WG1173825,ICAL15200	L1843787-06	537ISO28_M_SPAN
49	1:B,3	I12141	WG1177819,WG1173825,ICAL15200	L1843787-07	537ISO28_M_SPAN
50	1:B,4	I12142	WG1177819,WG1173825,ICAL15200	L1843787-08	537ISO28_M_SPAN
51	1:B,5	I12143	WG1177819,WG1173825,ICAL15200	L1843787-09	537ISO28_M_SPAN
52	2:A,2	I12144	WG1177819,WG1173825,ICAL15200,537ILOW	WG1177819-5,537ILOW	537ISO28_M_SPAN
53	1:B,6	I12145	WG1177819,WG1175174,ICAL15200	L1844318-01	537ISO28_M_SPAN
54	1:B,7	I12146	WG1177819,WG1175174,ICAL15200	L1844318-02	537ISO28_M_SPAN
55	1:B,8	I12147	WG1177819,WG1175174,ICAL15200	L1844318-03	537ISO28_M_SPAN
56	1:C,1	I12148	WG1177819,WG1175174,ICAL15200	L1844318-04	537ISO28_M_SPAN
57	1:C,2	I12149	WG1177819,WG1175174,ICAL15200	L1844318-05	537ISO28_M_SPAN
58	1:C,3	I12150	WG1177819,WG1175174,ICAL15200	WG1175174-4	537ISO28_M_SPAN
59	1:C,4	I12151	WG1177819,WG1175174,ICAL15200	WG1175174-5	537ISO28_M_SPAN
60	1:C,5	I12152	WG1177819,WG1175174,ICAL15200	L1844318-06	537ISO28_M_SPAN

MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ

	Vial	File Name	File Text	Sample ID	MS File
61	1:C,6	I12153	WG1177819,WG1175174,ICAL15200	L1844318-07	537ISO28_M_SPAN
62	1:C,7	I12154	WG1177819,WG1175174,ICAL15200	L1844318-08	537ISO28_M_SPAN
63	1:C,8	I12155	WG1177819,WG1175174,ICAL15200	WG1175174-6	537ISO28_M_SPAN
64	1:D,1	I12156	WG1177819,WG1175174,ICAL15200	WG1175174-7	537ISO28_M_SPAN
65	2:A,3	I12157	WG1177819,WG1175174,ICAL15200,537IMED	WG1177819-6,537IMED	537ISO28_M_SPAN
66	1:D,2	I12158	WG1177819,WG1175174,ICAL15200	L1844318-09	537ISO28_M_SPAN
67	1:D,3	I12159	WG1177819,WG1175174,ICAL15200	L1844318-10	537ISO28_M_SPAN
68	1:D,4	I12160	WG1177819,WG1175174,ICAL15200	L1844318-11	537ISO28_M_SPAN
69	1:D,5	I12161	WG1177819,WG1175174,ICAL15200	L1844378-01	537ISO28_M_SPAN
70	1:D,6	I12162	WG1177819,WG1175174,ICAL15200	L1844378-02	537ISO28_M_SPAN
71	1:D,7	I12163	WG1177819,WG1175174,ICAL15200	L1844378-03	537ISO28_M_SPAN
72	1:D,8	I12164	WG1177819,WG1175174,ICAL15200	WG1175174-8	537ISO28_M_SPAN
73	1:E,1	I12165	WG1177819,WG1175174,ICAL15200	WG1175174-9	537ISO28_M_SPAN
74	2:A,2	I12166	WG1177819,WG1175174,ICAL15200,537ILOW	WG1177819-7,537ILOW	537ISO28_M_SPAN
75	2:A,1	I12167	ACN/MeOH FLUSH	ACN/MeOH FLUSH	537ISO28_M_SPAN
76	2:A,1	I12168	MeOH FLUSH	MeOH FLUSH	537ISO28_M_SPAN

MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:AJ
181101_TUNE	ACN_MeOH_Flush_30	3.0	Analyte	---	LCMS01:AJ
181101_TUNE	MeOH_Flush	3.0	Analyte	---	LCMS01:AJ

ORGANIC ELN REPORT

Workgroup: WG1175174

Prep Method: EPA 537
Solvent Type: Methanol
Surrogate Type: NA
Spike Type: 537
Spike Verify by: TR
Lims Spikelot: 537I

Lot #: DU801-US
Lot #: LC_537_ISO_SURR_181030
Lot #: LC_537_LCS_181030

Additional Reagents/Stds

1:1 Acetic Acid	
2% NH4OH	OW110118A/OW110218A
25 mM NaOAc	OW103118C
Acetic Acid	2018032609

Conc.Method: N-EVAP
Solvent Type: 80:20 Methanol/Wat
Lot #: OW103118D

Additional Reagents/Stds

IS	537_ISO_ISTD_181031

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Surr Amt ml	Spike Amt ml	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartrid	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit
L1843594-01 WATER	11/02/18 09:16	Tyler Russell	10	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-4 HOSE 24. Diluted to 250 mL with DI water.												
L1843594-02 WATER	11/02/18 09:16	Tyler Russell	5	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-5 HOSE 6. Diluted to 250 mL with DI water.												
L1843594-03 WATER	11/02/18 09:16	Tyler Russell	12.5	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-6 HOSE 14. Diluted to 250 mL with DI water.												
L1843594-04 WATER	11/02/18 09:16	Tyler Russell	50	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-1 HOSE 3. Diluted to 250 mL with DI water.												
L1843594-06 WATER	11/02/18 09:16	Tyler Russell	50	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-2 HOSE 13. Diluted to 250 mL with DI water.												
L1843594-09 WATER	11/02/18 09:16	Tyler Russell	50	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-3 HOSE 11. Diluted to 250 mL with DI water.												

Reported: 20-DEC-18 10:13 AM

ORGANIC ELN REPORT

Workgroup: WG1175174

Sample/ Type	Extraction									Concentration			
	Extract Date	Analyst	Sample Vol ml	Surr Amt ml	Spike Amt ml	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartrid	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit
L1844318-01 WATER	11/02/18 09:16	Tyler Russell	276	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-4 HOSE 17												
L1844318-02 WATER	11/02/18 09:16	Tyler Russell	277	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-5 HOSE 23												
L1844318-03 WATER	11/02/18 09:16	Tyler Russell	271	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	2-1 HOSE 19												
L1844318-04 WATER	11/02/18 09:16	Tyler Russell	283	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	2-2 HOSE 5												
L1844318-05 WATER	11/02/18 09:16	Tyler Russell	280	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	2-3 HOSE 12												
L1844318-06 WATER	11/02/18 09:16	Tyler Russell	280	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-1 HOSE 15												
L1844318-07 WATER	11/02/18 09:16	Tyler Russell	278	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-2 HOSE 21												
L1844318-08 WATER	11/02/18 09:16	Tyler Russell	262	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-3 HOSE 6. Centrifuged and decanted.												
L1844318-09 WATER	11/02/18 09:16	Tyler Russell	279	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-6 HOSE 24												
L1844318-10 WATER	11/02/18 09:16	Tyler Russell	275	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-7 HOSE 7												

Reported: 20-DEC-18 10:13 AM

ORGANIC ELN REPORT

Workgroup: WG1175174

Sample/ Type	Extraction									Concentration			
	Extract Date	Analyst	Sample Vol ml	Surr Amt ml	Spike Amt ml	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartrid	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit
L1844318-11 WATER	11/02/18 09:16	Tyler Russell	263	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-1 HOSE 19												
L1844378-01 WATER	11/02/18 09:16	Tyler Russell	267	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-2 HOSE 12												
L1844378-02 WATER	11/02/18 09:16	Tyler Russell	227	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	2-5 HOSE 24. Centrifuged and decanted.												
L1844378-03 WATER	11/02/18 09:16	Tyler Russell	262	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	1-4 HOSE 4. Centrifuged and decanted.												
WG1175174-1 BLANK	11/02/18 09:16	Tyler Russell	250	.02		S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-1 HOSE 21. **Pipette IDs:** **20 uL: WHG-31** **100 uL: WHG-30** **300 uL: WHG-33** **1 mL: WHG-29** **5 mL: #239** **10 mL: #243** **TR 11/2/18**												
WG1175174-2 LCS	11/02/18 09:16	Tyler Russell	250	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-2 HOSE 15												
WG1175174-3 LCSD	11/02/18 09:16	Tyler Russell	250	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	3-3 HOSE 7												
WG1175174-4 MS	11/02/18 09:16	Tyler Russell	279	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653
	2-4 HOSE 4												

ORGANIC ELN REPORT

Workgroup: WG1175174

Sample/ Type	Extraction									Concentration				
	Extract Date	Analyst	Sample Vol **ml**	Surr Amt **ml**	Spike Amt **ml**	Lot: Spe Cartrid	Flow Rate **ml/min**	Lot: Clnup Cartrid	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	
WG1175174-5 MSD	11/02/18 09:16	Tyler Russell	277	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653	
	2-5 HOSE 9													
WG1175174-6 MS	11/02/18 09:16	Tyler Russell	255	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653	
	3-4 HOSE 16. Centrifuged and decanted.													
WG1175174-7 MSD	11/02/18 09:16	Tyler Russell	237	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653	
	3-5 HOSE 1. Centrifuged and decanted.													
WG1175174-8 MS	11/02/18 09:16	Tyler Russell	258	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653	
	1-5 HOSE 13. Centrifuged and decanted.													
WG1175174-9 MSD	11/02/18 09:16	Tyler Russell	262	.02	.02	S308-0083	4	10527414	4	11/02/18 13:00	Raymond Siegener	1	NEVAP 653	
	1-6 HOSE 5. Centrifuged and decanted.													