Periodic Review Report

Parkchester Crossing
1590 White Plains Road
Bronx, New York

May 16, 2024

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Executive Summary

This Periodic Review Report (PRR) has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) on behalf of ZP Realty LLC (current site owner) and serves as a required element of the remedial program for the Parkchester Crossing site located at 1590 White Plains Road in the Parkchester neighborhood of the Bronx, New York (hereinafter referred to as the Site). The Site is enrolled in the New York State (NYS) Brownfield Cleanup Program (BCP), which is administered by the New York State Department of Environmental Conservation (NYSDEC) and has been assigned Site Number C203079. The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #C203079-03-15, which was executed on May 5, 2015, and a Certificate of Completion was issued by NYSDEC for the Site on December 23, 2019.

The following sections provide a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, and reporting activities completed in accordance with the Site Management Plan (SMP), dated December 9, 2019, which was approved by NYSDEC on December 18, 2019, and an email from the NYSDEC dated June 13, 2022, which approved the reduction of groundwater monitoring wells sampled to three wells (MW-5, MW-9R, and MW-11R) and the sampling frequency from quarterly to annually. The required Site-wide inspection and annual groundwater monitoring of wells MW-5, MW-9R, and MW-11R were completed during this SMP monitoring phase from April 2023 to April 2024. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls (IC/ECs) are performing as designed, are effective, and are compliant with specifications described in the SMP. Appendix A includes the NYSDEC Site Management Plan Approval and the email from NYSDEC approving the groundwater sampling reduction.

The results of the baseline and post-remediation groundwater samples for volatile organic compounds (VOCs) were compared to NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGVs) and are presented on Plate 1. Results from the March 1, 2024 groundwater sampling event are provided on Tables 2 and 3. Results for this groundwater sampling event saw significant reductions in chlorinated VOCs and petroleum-related VOCs reductions from their highest concentrations observed. These results continue to support the conclusion that VOC concentrations have been reduced at the Site for the constituents of concern. Roux is requesting that the NYSDEC reduce the sampling frequency for VOCs in groundwater from annually to once every three years.

1. Introduction

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) on behalf of ZP Realty LLC (ZP Realty; current site owner) and serves as a required element of the remedial program for the Parkchester Crossing site located at 1590 White Plains Road in the Parkchester neighborhood in the County of the Bronx, New York (hereinafter referred to as the Site). A Site Location Map is attached as Figure 1. This PRR documents post-remediation activities performed at the Site from April 2023 through April 2024.

ZP Realty entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on May 5, 2015 (Site Number C203079) to investigate and remediate the 1.493-acre property located at the above address identified as Block 3952 and Lots 1, 7, 8, 17 and 23 on the Bronx County Tax Map. The property was remediated to allow for restricted residential use, and the redevelopment plans for the property have yet to be finalized. The Site Management Plan (SMP), dated December 9, 2019, was approved by NYSDEC on December 18, 2019, and the Certificate of Completion (COC) for the Site was issued by NYSDEC on December 23, 2019.

Site management activities, reporting, and Institutional Control (IC)/Engineering Control (EC) certification are scheduled on a certification period basis. This certification is based on the submission of a PRR (included herein), submitted to the NYSDEC every year beginning sixteen months after the COC was issued. This PRR is the fourth PRR issued for the Site. These PRRs will identify and assess all the IC/ECs required by the remedy for the Site, any environmental monitoring data and/or information generated during the reporting period, and a complete Site evaluation that discusses the overall performance and effectiveness of the previous remedy.

2. Site Overview

2.1 Site Description and History

The Site is located in the Parkchester neighborhood in the County of Bronx, New York and is identified as Block 3952 and Lots 1, 7, 8, 17, and 23 on the Bronx County Tax Map. The Site is an approximately 1.493-acre area and is bounded by East Tremont Avenue to the North, Guerlain Street to the South, White Plains Road to the West and Unionport Road to the east (Figure 2). The Site is currently vacant, and all buildings formerly located at the Site have been demolished. According to the Phase I Environmental Site Assessment (ESA) conducted in 2014, the Site was sparsely developed until 1950. Historical Site operations included a gasoline filling station, multiple dry cleaners, a bowling alley, a dentist's office and several commercial businesses. Lots 1, 7, 17, 23, and a portion of Lot 8 of the Site are currently zoned R6 with a C1-2 overlay. A portion of Lot 8 of the Site is currently zoned C8-1.

Previous environmental site assessments identified several Areas of Concern (AOCs) (including historical and existing underground storage tanks [USTs], aboveground storage tanks [ASTs], and previous use as a drycleaner) across the Site. The Remedial Investigation (RI) completed in 2018 confirmed that soil at the Site was impacted with VOCs, metals, polycyclic aromatic hydrocarbons (PAHs), pesticides/herbicides and polychlorinated biphenyls (PCBs).

Site soils were likely impacted through inadvertent releases to the subsurface (e.g., spills or overfills of petroleum products and chlorinated solvents) from historic operations at the Site, which resulted in localized hot spots in the soil. In addition to the contamination found in the hot spots, there is also more widespread contamination of PAHs and heavy metals associated with urban fill materials throughout the Site. The northwest portion of the Site where former gasoline/filling station activities took place and a localized area near a former dry cleaner contained high concentrations of VOCs in the soil. In Lot 1, the presence of the chlorinated VOC tetrachloroethylene (PCE) was detected in both the soil and a localized groundwater sample, indicating that this contaminant had migrated from the soil into the groundwater.

The sources of VOCs in the groundwater were primarily associated with past Site uses and an off-Site, upgradient source that is migrating onto the Site. Site-wide detections indicate that soil vapor at the Site is also contaminated with VOCs. The release of VOCs into the soil vapor also occurred through inadvertent releases into the soil. The highest concentrations of petroleum-related VOCs in soil vapor were found around Lot 8, while the highest detection of chlorinated VOCs (CVOCs) was identified in Lot 23 and Lot 1 (near the former location of the on-Site dry cleaners).

2.2 Summary of Remedial Action

The Site was remediated in accordance with the NYSDEC-approved Interim Remedial Measure (IRM) Work Plan dated September 2016 and the NYSDEC-approved Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) dated August 2019. ZP Realty began remediation at the Site in 2016. The remainder of the remediation was completed in 2019. All remedial work was done with oversight, understanding, and direction from the NYSDEC.

Based on the results of the RI, the Decision Document (DD) identified the following Remedial Action Objectives (RAOs) for this Site.

2.2.1 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the DD dated September 2019 are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into future new buildings at a site.

2.2.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the RAWP and DD. Due to field conditions encountered and deviations from the RAWP described in the Final Engineering Report (FER) dated December 2019, it was determined that it was impractical to achieve a Track 1 cleanup in Lot 8. As such, a Track 4 remedy was implemented across the entire Site, as had been described as a contingency in the RAWP. The factors considered during the selection of the remedy are those listed in Title 6 of the New York Code of Rules and Regulations (6 NYCRR) 375-1.8. The following are the components of the Track 4 remedy as specified in the approved RAWP:

1. Completion of IRM in accordance with the NYSDEC-approved IRM Work Plan dated September 9, 2016 that included: cleaning and removal of ASTs and USTs located in Lots 7, 8, 17, and 23. In addition, two excavations were performed in accordance with the procedures outlined in the IRM Work Plan as approved through discussions with the NYSDEC on July 10, 2019. This scope included the excavation and off-Site disposal of all Area of Concern 2 (AOC-2) soil (primarily on Lot 8), which exceeded the **Track 4 restricted residential** use soil cleanup objectives (Restricted Residential SCOs) and/or **protection of groundwater** SCOs (PoGW SCOs) for VOCs, as defined by 6 NYCRR Part 375-6.8. Additionally, all soils in Lot 1 that exceeded the **Track 4 restricted residential** SCOs for VOCs and/or **PoGW** SCOs for VOCs were excavated and transported off-Site for disposal (this work was identified as AOC-3). Approximately 12,514.18 tons of soil were removed from the Site. This included 10,000.11 tons of soil exceeding the Restricted Residential SCOs for VOCs and/or PoGW SCOs for VOCs from AOC-2 and 1,652.87 tons of soil exceeding the Restricted Residential SCOs for VOCs and/or PoGW SCOs for VOCs in AOC-3. The SCOs for the Site were provided in Table 1 of the FER. Additional excavation and off-site disposal of 861.2 tons was also performed to facilitate placement of the Site-wide cover system and achieve future site redevelopment grades.

2. Installation of support of excavation (SOE) and/or sloping as needed for remedial excavations.
3. Site monitoring of potential airborne VOCs and particulates in accordance with a NYSDEC-approved Community Air Monitoring Plan (CAMP) during all ground intrusive and soil handling activities.
4. Implementation of dust and odor suppression techniques during all ground intrusive and soil handling activities.
5. Implementation of soil erosion and sediment controls.
6. Screening for indications of contamination (by visual means, odor, and monitoring with photoionization detector [PID]) in all excavated soil during all ground intrusive activities.
7. Collection and analysis of Site-wide endpoint samples to evaluate the performance of the remedy with respect to attainment of Track 4 Restricted Residential SCOs in accordance with NYSDEC's Technical Guidance for Site Investigation and Remediation (DER-10).
8. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to replace the excavated soil and establish the designed grades at the Site.
9. A Site cover system was installed to allow for **restricted residential** use of the Site in areas where the upper **two feet** of exposed surface soil exceeds the applicable SCOs. The Site cover consists of a minimum of **two feet of clean replacement fill** placed over a demarcation layer, with the upper six inches consisting of gravel to allow for future redevelopment. Cover material, including any fill material brought to the Site meets the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).
10. Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal.
11. All responsibilities associated with the Remedial Action (RA), including permitting requirements and pretreatment requirements, were addressed in accordance with all applicable Federal, State and local rules and regulations.
12. Groundwater remediation consisting of *in situ* treatment of groundwater beneath Lots 1 (AOC-3) and 23 (AOC-4) that is impacted with chlorinated VOCs and treatment of groundwater beneath AOC-2 that is impacted with petroleum VOCs. The treatment areas are shown on Figure 2. The final design for the *in situ* groundwater treatment was provided as a separate NYSDEC-approved Groundwater Remediation Work Plan dated September 2019.

Starting on October 2, 2019, a single round of *in situ* ISCO injections/direct placement was conducted to address VOCs in groundwater and soil in AOC-2, AOC-3 and AOC-4.

AOC-2

In AOC-2, the chemical oxidant PersulfOx© was used in conjunction with the oxygen release compound ORC Advanced© to address VOCs in soil and groundwater. The IRM/RA included excavation down to 23-24 ft bls in AOC-2. In the area of open excavation within AOC-2, 3,306 lbs. of PersulfOx© and 771 lbs of ORC Advanced© were applied directly to the excavation bottom at approximately 23-24 ft bls prior to backfill.

During the RA, the excavation limits on the western side of AOC-2 were reduced due to the incompatibility of a slide rail SOE system with the conditions encountered (shallow bedrock, large boulders, and concrete). A 1:1 sloping system was implemented as a replacement. As a result, all soil exceeding applicable SCOs was not able to be removed from this area. In the 1:1 sloped area on the western side of AOC-2, PersulfOx© (15% solution with water) and ORC Advanced© (30% solution with water) was injected at a total of

16 temporary locations via direct push methods. The injections were spaced 8 feet apart with an average injection volume of 40 gallons per point (55 lbs. of PersulfOx© and 13 lbs. of ORC Advanced©) to treat petroleum-related VOCs present within the groundwater table down to bedrock (approximately 20-24 ft bls). The total injected application volume was 882 lbs. of PersulfOx© and 200 lbs. of ORC Advanced©.

AOC-3/AOC-4

For AOC-3 and AOC-4, the chemical oxidant PersulfOx© was injected at a total of 110 temporary locations via direct push methods as a 19% solution with water. The spacing between injection points and application depths were evaluated for each area to meet the required application volumes for effective CVOC reductions in groundwater. For AOC-3, 42 injections were spaced 10 feet apart with an average injection volume of 143 gallons per point (256 pounds of PersulfOx©) to treat CVOCs present within the groundwater table down to bedrock, which varied from 4 ft bls to a depth of 20 ft bls. The total application volume was 6,026 gallons (10,745 pounds of PersulfOx©). For AOC-4, 68 injections were spaced approximately 10 feet apart with an average injection volume of 101 gallons per point (181 pounds of PersulfOx©) to treat CVOCs present from 2 ft bls to 8 ft bls. The total application volume was 6,892 gallons (12,287 pounds of PersulfOx©).

Post-Treatment Groundwater Sampling

To verify the efficacy of the *in situ* groundwater treatment, one round of performance groundwater samples and associated field parameters (i.e., ORP, dissolved oxygen, pH, turbidity, conductivity) was collected in monitoring wells on November 5, 2019. Figure 4 of the SMP shows the location of the monitoring wells and the analytical results from the RI, the baseline round in September 2019 and the post-SMP injection round in November 2019. The groundwater results indicate an overall decreasing trend from the RI groundwater results.

Remedial activities for soil and groundwater were completed at the Site in October 2019. Additional details of the RAWP implementation and completion are documented fully in the FER.

2.3 Remaining Contamination

As discussed above, a Track 4 Cleanup was achieved for the Site.

2.3.1 Soil

The RA included the excavation and off-Site disposal of all AOC-2 soil (primarily on Lot 8) that exceeded the Track 4 Restricted Residential SCOs and/or PoGW SCOs for VOCs. Additionally, all soils in Lot 1 that exceeded the Track 4 restricted residential SCOs and/or PoGW SCOs for VOCs were excavated and transported off-Site for disposal (this work was identified as AOC-3). Additional excavation was also performed to facilitate placement of the Site wide cover system and to achieve future site redevelopment grades. Clean soil, recycled concrete aggregate from a NYSDEC-registered construction and demolition processing facility and crushed stone from virgin sources was utilized as needed for backfilling/grading purposes.

Prior to installing the Site Cover System, surficial soil samples were collected to characterize the areas of remaining contamination at the Site. These documentation samples were collected from 0-1 ft below the

post excavation grade, at a frequency of 1 sample per 3,000 square feet. A total of 27 (plus two duplicate) soil samples were collected and analyzed for:

- Part 375 VOCs;
- Part 375 SVOCs;
- Part 375 Metals;
- Part 375 Pesticides;
- PCBs;
- Part 375 Herbicides; and
- Hexavalent/Trivalent Chromium.

These documentation sample locations, along with samples from the RI that exceeded applicable SCOs, are shown on Figure 5 of the SMP, which defines the remaining contamination on-Site. The results of the documentation endpoint samples, are presented in Tables 3 through 6 of the SMP.

Future contact with contaminated soil was addressed by installing a Site Cover System across the Site, which is depicted in Figure 2.

2.3.2 Groundwater

Groundwater was remediated using *in situ* chemical oxidation. One round of treatment was performed. To assess the performance of the *in situ* groundwater remediation, a groundwater monitoring program was established that included two components: baseline sampling completed during September 2019 and performance monitoring completed on a quarterly basis thereafter (November 2019, September 2020, December 2020, April 2021, June 2021, September 2021, December 2021, and March 2022). Sampling was not performed in March or June 2020 as a result of the COVID-19 pandemic. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with established procedures for the Site. The monitoring well network included monitoring wells MW-5, MW-7, RMW-9R, RMW-11R, RMW-12R, RMW-13, and RMW-14.

Following submittal of the 2022 PRR, NYSDEC approved Roux's request to reduce the number of groundwater monitoring wells sampled to three wells (RMW-5, RMW-9R, and RMW-11R) and reduce the sampling frequency from quarterly to annually. During the 2022-2023 reporting period, the annual performance monitoring sampling event occurred on September 8, 2022, on the reduced monitoring well network. The annual performance monitoring sampling event for this reporting period occurred on March 1, 2024, on the reduced monitoring well network.

During each monitoring event, all wells were gauged using an electronic interface probe capable of detecting non-aqueous phase liquid (NAPL) with an accuracy of +/- 0.01 feet. Groundwater samples were collected from all monitoring wells as none exhibited any NAPL[1]. Samples were analyzed for TCL VOCs.

[1] Monitoring well RMW-12 was not sampled during the December 2021 event due to flooding.

Gauging data and groundwater quality data collected during the completion of the RA is summarized in Tables 2 and 6 of the SMP, respectively. All groundwater sampling results generated under the SMP have been submitted to the NYSDEC in EDD format.

2.3.3 Soil Vapor

Table 7 and Figure 6 of the SMP summarize the results of historical soil vapor samples. While excavation and groundwater treatment activities completed during the RA may have reduced the soil vapor concentrations, residual contamination could contribute to soil vapor intrusion (SVI) for the planned future development.

If required, soil vapor sampling may be performed as part of an SVI assessment prior to future building construction where foundations are located above the water table, and in the event that the potential for soil vapor intrusion is determined to exist at the time of redevelopment. If additional soil vapor sampling is required, locations will be selected in coordination with NYSDEC/NYSDOH.

2.4 Institutional and Engineering Controls

Since residual contamination remains beneath the Site, ICs/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved SMP, to provide proper management of residual contamination in the future to ensure protection of public health and the environment.

2.4.1 Institutional Controls

A Site-specific Environmental Easement has been recorded with the Bronx County Clerk that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- The property may be used for restricted residential (or less restrictive uses) as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;

- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 2 of the SMP, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited, with the exception of raised planters.

2.4.2 Engineering Controls

The Site has ECs consisting of:

- Site Cover System; and
- *In Situ* Groundwater Treatment.

The purpose of each EC is described below:

- The Site Cover System prevents exposure to remaining contamination in soil/ fill at the Site.
- The *in situ* groundwater treatment will destroy the residual VOCs in groundwater and soil that were present after completion of the excavation remedy.

Site Cover System EC is fully in place and effective at meeting their objectives. There is no need for further *in situ* groundwater treatment at this time.

3. SMP Requirements and Compliance Monitoring

Since remaining contaminated soil exists beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4.

For each IC or EC identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the ICs and ECs required by the remedial program was performed under my direction;
- The ICs and/or ECs employed at this Site are unchanged from the date the control was put in place, or last approved by the NYSDEC;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with the SMP for these controls;
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of these controls;
- Use of the Site is compliant with the environmental easement;
- The EC systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices;
- The information presented in this report is accurate and complete; and
- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Noelle M. Clarke, P.E., of Roux Environmental Engineering and Geology, D.P.C., am certifying as the Owner’s Designated Site Representative for the Site.

An IC/EC Certification Form for the controls that are currently in place is included as Appendix D.

3.1.1 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 15-day advance notice of any proposed ground-intrusive activities pursuant to the EWP.

- Notice within 48-hours of any damage or defect to the foundation, structures, or EC that reduces or has the potential to reduce the effectiveness of an EC and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the BCA, and all approved work plans and reports, including the SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing.

No notifications to the NYSDEC were required during the reporting period.

3.2 Inspections

All inspections were conducted at the frequency specified in the schedules provided in the following Monitoring Plan Reporting section of this PRR. At a minimum, one Site-wide Cover System and one comprehensive Site-wide inspection are to be conducted annually (starting no more than 15 months after the issuance of the COC) per the SMP. Details of requirements and completed inspections are provided in the following sections. Inspections of remedial components will also be conducted when a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

3.3 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site cover system, and all affected Site media identified below. Components of the Monitoring Plan are:

- Sampling and analysis of all appropriate media (e.g., groundwater).
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil.
- Assessing achievement of the remedial performance criteria.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency thereafter will be determined in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Matrix	Analysis
Site-wide Cover System	Annually, first inspection to occur no more than 15 months after issuance of COC or upon completion of redevelopment, whichever occurs first.	Soil	Confirm Site-Wide Cover System has not been compromised.
Site-Wide Inspection	Annually, first inspection no more than 15 months after issuance of the COC.	Soil	Confirm compliance with all ICs and effectiveness of ECs.
Groundwater	Quarterly for VOCs for first 2 years, and annually thereafter. Every three years for polyfluoroalkyl (PFAS) substances. Any change in frequency will need to be approved by the NYSDEC.	Groundwater	Collect samples and analyze for Target Compound List (TCL) VOCs (USEPA Method 8260) and PFAS substances (USEPA Method 537).
Soil Vapor Intrusion Evaluation Completion of a soil vapor intrusion evaluation as part of any future proposed redevelopment. If additional soil vapor sampling is required, locations will be selected in coordination with NYSDEC/NYSDOH.	Determine the potential for vapor intrusion into any proposed Site buildings located above the water table. Soil vapor quality will be evaluated prior to construction of any future buildings. The evaluation will include a provision for implementing actions recommended to address exposures related to soil vapor intrusion prior to occupancy, if necessary.	Soil Vapor	To be completed prior to building construction. Any monitoring or mitigation actions recommended to address exposures will be memorialized in an addendum to the SMP.

* The frequency of events will be conducted as specified above until otherwise approved by NYSDEC and NYSDOH. Although not anticipated, monitoring wells that have NAPL present will not be sampled.

A record of the findings of each monitoring/inspection event and resulting in maintenance activity performed, where applicable, will be kept in a dedicated logbook and documented on the Site Inspection Checklist described in further detail below. If at any time during the reporting period the Volunteer identifies a failure of one or more of the ECs or non-compliance with one or more of the ICs, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the IC/ECs.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by the engineered Site Cover System comprised of the clean soil/recycled concrete aggregate/gravel cover.

The location and details of the Site cover system are shown on Figure 2. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring will consist of visual inspection.

On March 1, 2024, Roux performed a Site cover system and Site-wide inspection. The completed Site Inspection Checklist is provided in Appendix E. This inspection determined that all Site cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment. Photographs taken during the Site-wide inspection are provided in the Photo Log included in Appendix E.

3.3.2 Groundwater Monitoring, Gauging and Sampling

The monitoring well network, defined in the SMP, includes monitoring wells RMW-5, RMW-7, RMW-9R, RMW-11R, RMW-12R, RMW-13, and RMW-14. Following submittal of the 2022 PRR, NYSDEC approved Roux's request to reduce the number of groundwater monitoring wells sampled to three wells (RMW-5, RMW-9R, and RMW-11R) and reduce the sampling frequency from quarterly to annually. As such, the annual performance monitoring sampling event for this reporting period occurred on March 1, 2024, on the reduced monitoring well network. Prior to groundwater sample collection, an electronic oil/water interface-probe indicator was utilized to gauge the water level and to determine the presence of NAPL within each of the monitoring wells. NAPL was not observed within the monitoring well network during all groundwater monitoring events within this reporting period. A summary of the groundwater gauging data for the monitoring wells required under the SMP is provided as Table 1.

During this reporting period, the annual groundwater sampling event was completed in March 1, 2024. Laboratory data associated with the sampling event is attached (Appendix B). Groundwater samples were collected from monitoring wells MW-5, RMW-9R, and RMW-11R and were sampled for TCL VOCs by USEPA Method 8260C and PFAS by USEPA Method 537. All groundwater samples were collected in appropriate laboratory-provided containers and were transported to Alpha Analytical of Westborough, Massachusetts, a NYSDOH Environmental Laboratory Approval Program (ELAP)-approved laboratory, in ice-filled coolers under chain of custody procedures. Analytical results for the groundwater samples collected during the reporting period are included in Tables 2 and 3 and the VOC analytical results are summarized in Plate 1.

Purged groundwater generated during the groundwater sampling events was containerized in labeled 55-gallon drums and stored onsite. The sample collection, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the SMP.

A summary of the groundwater analytical results for samples collected during this reporting period is included below.

- Concentrations of VOCs at the three monitoring wells (MW-5, RMW-9R, and RMW-11R) exceeded the NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGVs). VOCs that exceeded the AWQSGVs include benzene, cis- and trans-1,2-dichloroethylene, PCE, trichloroethylene (TCE), and/or xylenes.

- While there are still concentrations of VOCs above AWQSGVs, the concentrations and areal extent of VOC concentrations from the March 2024 sampling event have generally decreased or stayed relatively consistent when compared with data from previous sampling events.
- Benzene and xylenes at monitoring well RMW-9R are the only petroleum-related VOCs present in groundwater at concentrations in exceedance of the AWQSGVs. In addition, the groundwater sample results demonstrate that the chlorinated VOCs in groundwater continue to show signs of degradation as a result of the remedial action.
- Additionally, groundwater samples were collected and analyzed for per- and polyfluoroalkyl substances (PFAS) during the March 2024 sampling event during this reporting period. This was the second round in which samples RMW-5, RMW-9R, and RMW-11R were analyzed for PFAS. PFAS were detected in all three monitoring wells sampled during the reporting period. Concentrations of PFAS at all three monitoring wells (MW-5, RMW-9R, and RMW-11R) exceeded the guidance values stated in the April 2023 NYSDEC guidance document titled "Sampling, Analysis, and Assessment of Per- And Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs." Perfluorooctanesulfonic acid (PFOS) exceeded the guidance value of 2.7 nanograms per liter (ng/L) and perfluorooctanoic acid (PFOA) exceeded the guidance value of 6.7 ng/L in all monitoring wells. No other individual PFAS compounds were detected in groundwater at or above the guidance value of 100 ng/L in any samples collected during this reporting period. Compared to the concentrations detected in January 2021, total PFAS concentrations are generally on the same order of magnitude.

3.3.3 Soil Vapor Intrusion Assessment

An SVI assessment work plan will be prepared and submitted to the NYSDEC and the NYSDOH for approval, upon the review of the submitted redevelopment design. The SVI assessment will evaluate the potential for SVI for each building where an SVI evaluation is proposed. The SVI evaluation will be completed prior to occupation of the buildings.

4. Overall PRR Conclusions and Recommendations

The following section presents conclusions from inspections and monitoring activities and recommendations.

1. The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP and/or described in the PRR.
2. Completion of the SVI evaluation is anticipated to be completed once redevelopment plans are received and reviewed.
3. The results of the baseline and post-remediation groundwater samples for VOCs (detections only) are compared to NYSDEC AWQSGVs and presented in Plate 1. Results for this groundwater sampling event saw significant reductions in chlorinated VOCs and petroleum-related VOCs reductions from their highest concentrations observed. These results continue to support the conclusion that VOC concentrations have been reduced at the Site for the constituents of concern. PFAS concentrations remain generally consistent at the Site.
4. Roux is requesting that the NYSDEC reduce the sampling frequency for VOCs in groundwater from annually to once every three years.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Rachel Henke
Senior Scientist

Noelle Clarke, P.E.
Principal Engineer

TABLES

1. Groundwater Elevation Measurements
2. Summary of Volatile Organic Compounds (VOCs) in Groundwater
3. Summary of Per- and Polyfluoroalkyl (PFAS) Substances in Groundwater

Notes Utilized Throughout Tables	
Groundwater Tables	
J -	Estimated Value
U -	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit
F -	The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration
FD -	Duplicate
µg/L -	Micrograms per liter
ng/L -	Nanogram per liter
NYSDEC -	New York State Department of Environmental Conservation
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
--	No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	

Table 1. Groundwater Elevation Measurements, Parkchester Crossing, 1590 White Plains Road, Bronx, New York

Monitoring Well Identification	Measuring Point Elevation (ft-NAVD 88)	Depth to Water (ft-btoc)	Water Elevation (ft-NAVD 88)	Well Type
RMW-5	51.2	9.53	41.67	Permanent 2" PVC
RMW-9R	53.31	8.69	44.62	Temporary 2" PVC
RMW-11R	50.24	6.80	43.44	Temporary 2" PVC

ft = feet
NAVD88 = North American Vertical Datum of 1988
btoc = below top of well casing

Table 2. Summary of Volatile Organic Compounds in Groundwater, 1590 White Plains Road, Bronx, New York

Parameter	NYSDEC Ambient Water-Quality Standards and Guidance	Units	RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Designation:			RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Date:			03/01/2024	03/01/2024	03/01/2024	03/01/2024
Normal Sample or Field Duplicate:			N	N	N	FD
1,1,1,2-Tetrachloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane (TCA)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	UG/L	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	UG/L	2.5 U	1.3 J	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	1.1 J	2.5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	UG/L	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	UG/L	2 U	0.92 J	2 U	2 U
Acetone	50	UG/L	5 U	6.2	5 U	5 U
Acrylonitrile	5	UG/L	5 U	5 U	5 U	5 U
Benzene	**1**	UG/L	0.5 U	**2.2**	0.5 U	0.5 U
Bromobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U

Table 2. Summary of Volatile Organic Compounds in Groundwater, 1590 White Plains Road, Bronx, New York

Parameter	NYSDEC Ambient Water-Quality Standards and Guidance	Units	RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Designation:			RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Date:			03/01/2024	03/01/2024	03/01/2024	03/01/2024
Normal Sample or Field Duplicate:			N	N	N	FD
Bromoform	50	UG/L	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	**5**	UG/L	0.72 J	2.5 U	**8.2**	**8.6**
Cis-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	UG/L	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U
Dichloroethylenes	**5**	UG/L	0.72 J	2.5 U	**14**	**14**
Diethyl Ether (Ethyl Ether)	--	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L	2.5 U	1.6 J	2.5 U	2.5 U
Hexachlorobutadiene	0.5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	4.7	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	3.9	2.5 U	2.5 U
Sec-Butylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	UG/L	**7.9**	0.42 J	**32**	**34**
Toluene	5	UG/L	2.5 U	2.1 J	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	0.5 U	0.5 U	0.5 U

Table 2. Summary of Volatile Organic Compounds in Groundwater, 1590 White Plains Road, Bronx, New York

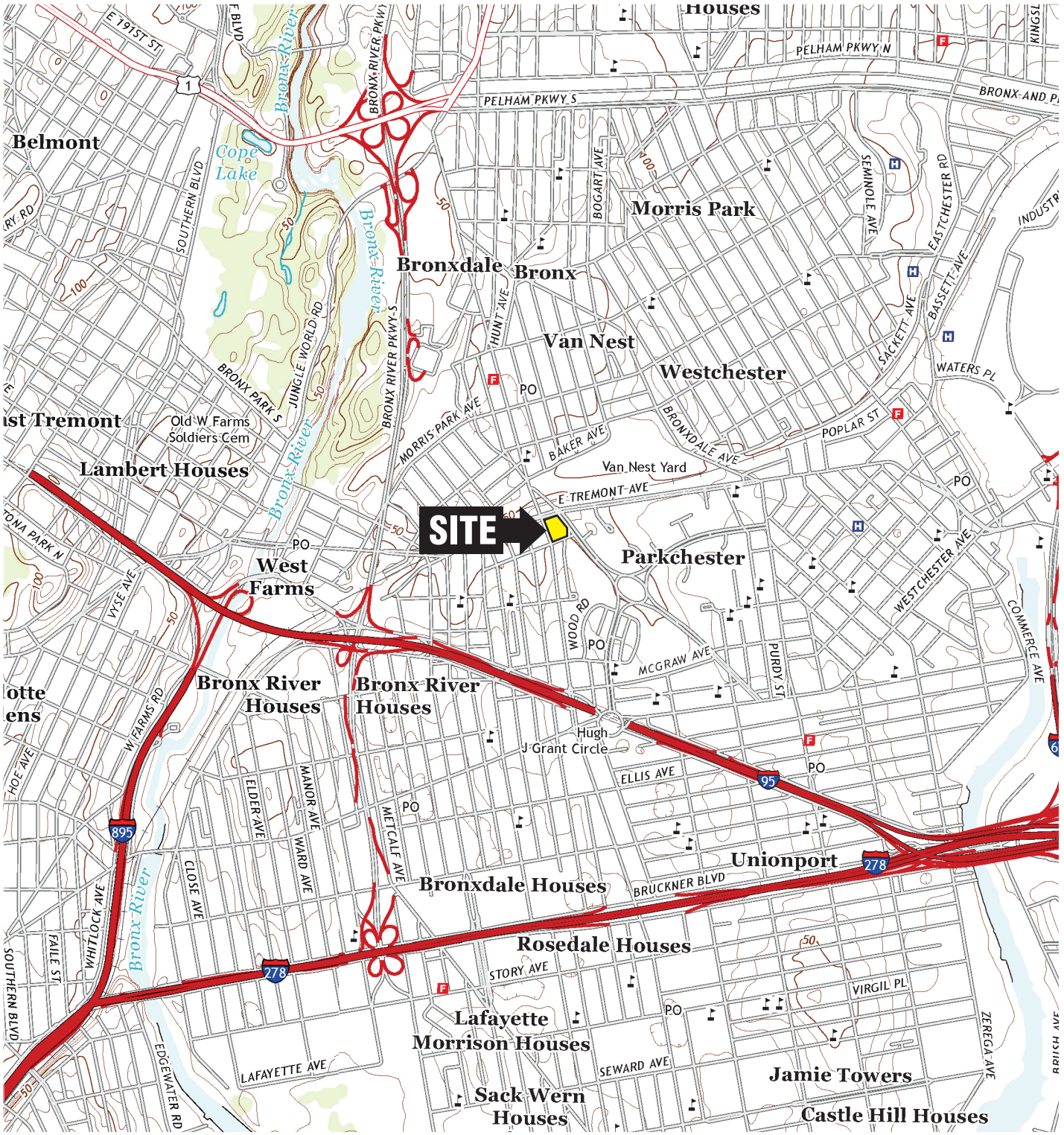
		Sample Designation:	RMW-5	RMW-9R	RMW-11R	RMW-11R
		Sample Date:	03/01/2024	03/01/2024	03/01/2024	03/01/2024
		Normal Sample or Field Duplicate:	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance	Units				
Trans-1,2-Dichloroethene	**5**	UG/L	2.5 U	2.5 U	**5.3**	**5.5**
Trans-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	**5**	UG/L	0.52	0.5 U	**19**	**19**
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	UG/L	5 U	5 U	5 U	5 U
Vinyl Chloride	2	UG/L	1 U	1 U	2	2
Xylenes	**5**	UG/L	2.5 U	**8.6**	2.5 U	2.5 U

Table 3. Summary of Per- and Polyfluoroalkyl Substances in Groundwater, 1590 White Plains Road, Bronx, New York

Parameter	NYSDEC Ambient Water-Quality Standards and Guidance	Units	RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Designation:			RMW-5	RMW-9R	RMW-11R	RMW-11R
Sample Date:			03/01/2024	03/01/2024	03/01/2024	03/01/2024
Normal Sample or Field Duplicate:			N	N	N	FD
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	NG/L	1.8 U	4.02	5.62 F	5.29 F
N-ethyl perfluorooctanesulfonamidoacetic acid	--	NG/L	1.8 U	3.58	19.6	18.7
Perfluorobutanesulfonic acid (PFBS)	--	NG/L	18.3	1.99	15.7	15.2
Perfluorobutanoic Acid	--	NG/L	15.5	10.7	9.51	10.1
Perfluorodecane Sulfonic Acid	--	NG/L	1.8 U	1.79 U	1.77 U	1.79 U
Perfluorodecanoic acid (PFDA)	--	NG/L	3.73	5.1	6.37	6.4
Perfluorododecanoic acid (PFDoA)	--	NG/L	1.8 U	0.462 JF	0.516 JF	1.79 U
Perfluoroheptane Sulfonate (PFHPS)	--	NG/L	1.51 J	0.752 JF	1.12 J	1.1 J
Perfluoroheptanoic acid (PFHpA)	--	NG/L	41.2	7.69	14	13.4
Perfluorohexanesulfonic acid (PFHxS)	--	NG/L	16.2	2.92 F	13.9	13.6
Perfluorohexanoic acid (PFHxA)	--	NG/L	28.7	9.18	15.4	15.3
Perfluorononanoic acid (PFNA)	--	NG/L	11.3	3.93	6.72	6.36
Perfluorooctane Sulfonamide (FOSA)	--	NG/L	1.8 U	2.2 F	4.39 F	3.47 F
Perfluorooctanesulfonic acid (PFOS)	**2.7**	NG/L	**71.2**	**35.1**	**44.8**	**44.2**
Perfluorooctanoic acid (PFOA)	**6.7**	NG/L	**93.1**	**22.8**	**42.5**	**42.8**
Perfluoropentanoic Acid (PFPeA)	--	NG/L	24.4	7.75	11.4	12.1
Perfluorotetradecanoic acid (PFTA)	--	NG/L	1.8 U	1.79 U	1.77 U	1.79 U
Perfluorotridecanoic Acid (PFTriA)	--	NG/L	1.8 U	1.79 U	1.77 U	1.79 U
Perfluoroundecanoic Acid (PFUnA)	--	NG/L	1.8 U	0.548 JF	0.792 JF	0.637 J
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	NG/L	1.8 U	1.79 U	1.77 U	1.79 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	NG/L	1.8 U	1.79 U	1.77 U	1.79 U
TOTAL PFOA AND PFOS	--	NG/L	164	57.9	87.3	87

FIGURES

1. Site Location Map
2. Site Cover As-Built
3. Remaining Soil Contamination



QUADRANGLE LOCATION

SOURCE:
USGS; Flushing, NY (2013) and
Central Park, NY-NJ (2013)
7.5 Minute Topographic Quadrangles

N

0 2000'

Title:

SITE LOCATION MAP

PERIODIC REVIEW REPORT
PARKCHESTER CROSSING
1590 WHITE PLAINS ROAD, BRONX, NEW YORK

Prepared for:

ZP REALTY, LLC

ROUX

Compiled by: P.K.	Date: 15APR21	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr.: R.H.	Project No.: 2530.0001Y000	
File: 2530.0001Y140.01.CDR		

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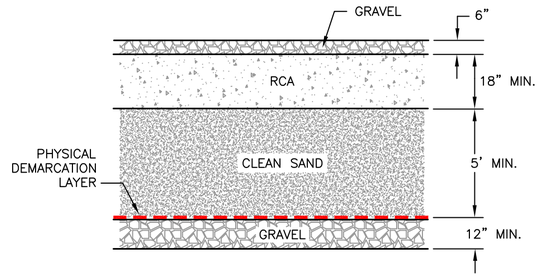
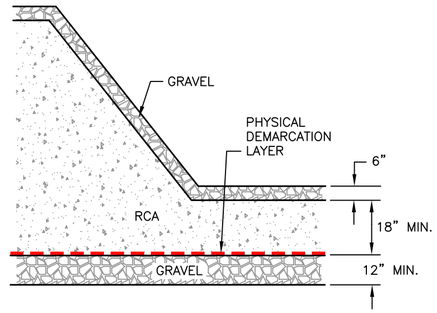
LEGEND

- SITE BOUNDARY
- TAX LOT BOUNDARY
- 17 — TAX LOT NUMBER
- CATCH BASIN
- AOC — AREA OF CONCERN
- AST — ABOVEGROUND STORAGE TANK
- UST — UNDERGROUND STORAGE TANK
- LIMITS OF EXCAVATION TO APPROXIMATELY 5 FEET BELOW GRADE SURFACE
- LIMITS OF EXCAVATION TO APPROXIMATELY 23–24 FEET BELOW GRADE SURFACE
- LIMITS OF IN SITU GROUNDWATER REMEDIATION
- SLOPED EXCAVATION
- SITE COVER SYSTEM – TYPE A
- SITE COVER SYSTEM – TYPE B
- SITE COVER SYSTEM – TYPE C



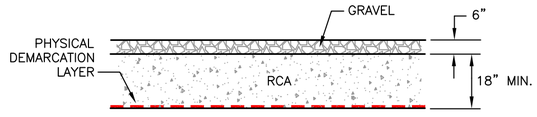
SITE COVER SYSTEM: TYPE A

NOT TO SCALE



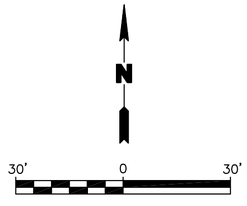
SITE COVER SYSTEM: TYPE B

NOT TO SCALE



SITE COVER SYSTEM: TYPE C

NOT TO SCALE



Title:

SITE COVER AS-BUILT

PERIODIC REVIEW REPORT
PARKCHESTER CROSSING
1590 WHITE PLAINS ROAD, BRONX, NEW YORK

Prepared for:

ZP REALTY, LLC

ROUX

Compiled by: P.K.	Date: 15APR21	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: R.H.	Project: 2530.0001Y000	
File: 2530.0001Y140.02.DWG		

STATE OF NEW YORK — Violette M. Clarke — 12/9/19 — No. 072493 — LICENSED PROFESSIONAL ENGINEER

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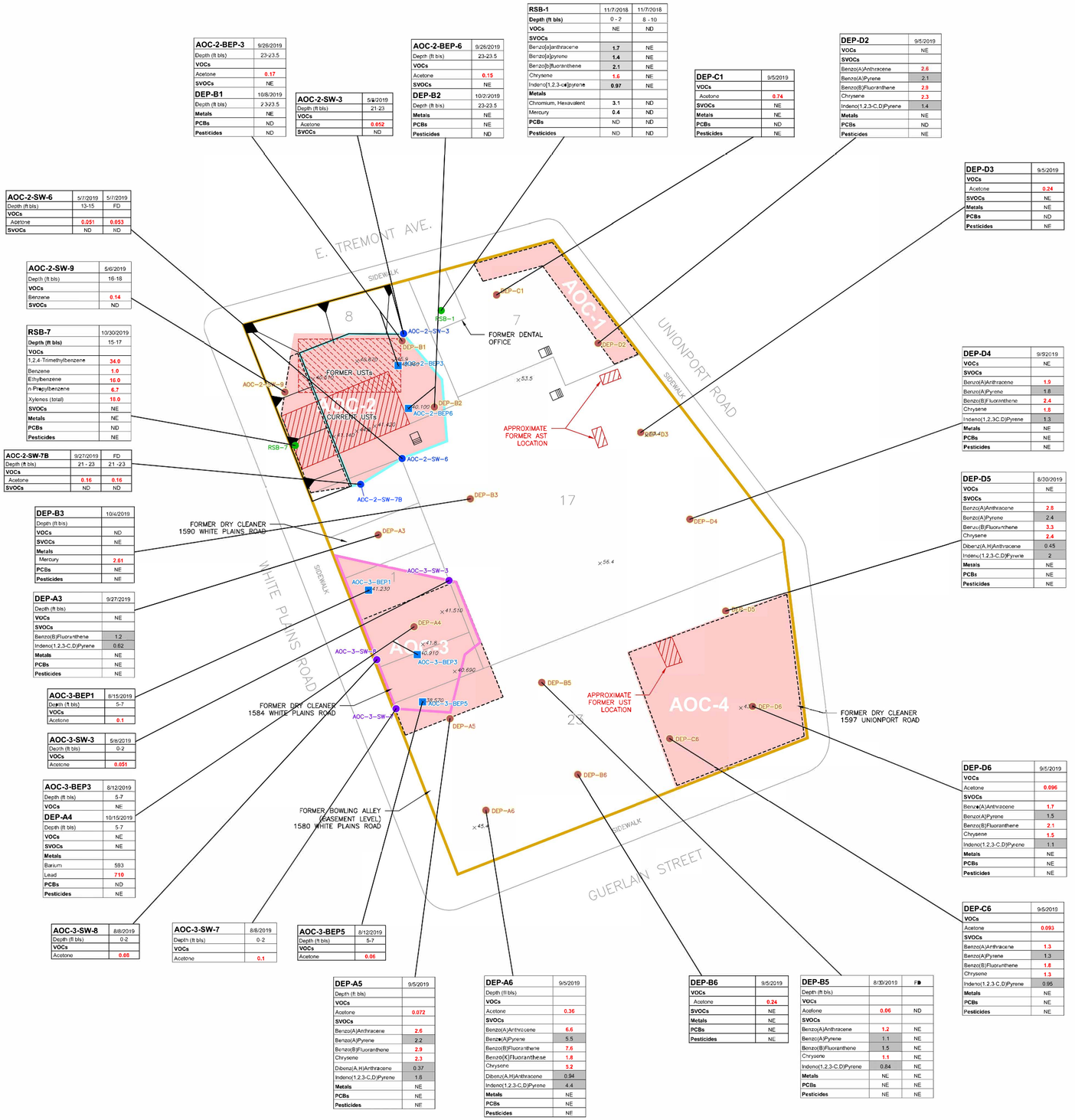

AOC-2-BEP-3	9/26/2019
Depth (ft bls)	23-23.5
VOCs	
Acetone	0.17
SVOCs	NE

DEP-B1	10/8/2019
Depth (ft bls)	23-23.5
Metals	NE
PCBs	ND
Pesticides	ND

AOC-2-SW-3	5/4/2019
Depth (ft bls)	21-23
VOCs	
Acetone	0.052
SVOCs	ND

AOC-2-BEP-6	9/26/2019
Depth (ft bls)	23-23.5
VOCs	
Acetone	0.15
SVOCs	NE

DEP-B2	10/2/2019
Depth (ft bls)	23-23.5
Metals	NE
PCBs	NE
Pesticides	ND

RSB-1	11/7/2018	11/7/2018
Depth (ft bls)	0 - 2	8 - 10
VOCs	NE	ND
SVOCs		
Benzo[a]anthracene	1.7	NE
Benzo[a]pyrene	1.4	NE
Benzo[b]fluoranthene	2.1	NE
Chrysene	1.6	NE
Indeno[1,2,3-cd]pyrene	0.97	NE
Metals		
Chromium, Hexavalent	3.1	ND
Mercury	0.4	ND
PCBs	ND	ND
Pesticides	ND	ND

DEP-C1	9/5/2019
VOCs	
Acetone	0.74
SVOCs	NE
Metals	NE
PCBs	ND
Pesticides	NE

DEP-D2	9/5/2019
VOCs	NE
SVOCs	
Benzo(A)Anthracene	2.6
Benzo(A)Pyrene	2.1
Benzo(B)Fluoranthene	2.9
Chrysene	2.3
Indeno(1,2,3-C,D)Pyrene	1.4
Metals	NE
PCBs	ND
Pesticides	NE

DEP-D3	9/5/2019
VOCs	
Acetone	0.24
SVOCs	NE
Metals	NE
PCBs	ND
Pesticides	NE

AOC-2-SW-6	5/7/2019	5/7/2019
Depth (ft bls)	13-15	FD
VOCs		
Acetone	0.051	0.053
SVOCs	ND	ND

AOC-2-SW-9	5/6/2019
Depth (ft bls)	16-18
VOCs	
Benzene	0.14
SVOCs	ND

RSB-7	10/30/2019
Depth (ft bls)	15-17
VOCs	
1,2,4-Trimethylbenzene	34.0
Benzene	1.0
Ethylbenzene	16.0
n-Propylbenzene	6.7
Xylenes (total)	15.0
SVOCs	NE
Metals	NE
PCBs	ND
Pesticides	NE

DEP-D4	9/9/2019
VOCs	NE
SVOCs	
Benzo(A)Anthracene	1.9
Benzo(A)Pyrene	1.8
Benzo(B)Fluoranthene	2.4
Chrysene	1.8
Indeno(1,2,3C.D)Pyrene	1.3
Metals	NE
PCBs	NE
Pesticides	NE

AOC-2-SW-7B	9/27/2019	FD
Depth (ft bls)	21 - 23	21 -23
VOCs		
Acetone	0.16	0.16
SVOCs	ND	ND

DEP-D5	8/30/2019
VOCs	NE
SVOCs	
Benzo(A)Anthracene	2.8
Benzo(A)Pyrene	2.4
Benzo(B)Fluoranthene	3.3
Chrysene	2.4
Dibenz(A,H)Anthracene	0.45
Indeno(1,2,3-C,D)Pyrene	2
Metals	NE
PCBs	NE
Pesticides	NE

DEP-B3	10/4/2019
Depth (ft bls)	
VOCs	ND
SVOCs	NE
Metals	
Mercury	2.61
PCBs	NE
Pesticides	NE

DEP-A3	9/27/2019
Depth (ft bls)	
VOCs	NE
SVOCs	
Benzo(B)Fluoranthene	1.2
Indeno(1,2,3-C,D)Pyrene	0.62
Metals	NE
PCBs	NE
Pesticides	NE

AOC-3-BEP1	8/15/2019
Depth (ft bls)	5-7
VOCs	
Acetone	0.1

AOC-3-SW-3	5/8/2019
Depth (ft bls)	0-2
VOCs	
Acetone	0.051

AOC-3-BEP3	8/12/2019
Depth (ft bls)	5-7
VOCs	NE

DEP-A4	10/15/2019
Depth (ft bls)	5-7
VOCs	NE
SVOCs	NE
Metals	
Barium	593
Lead	710
PCBs	ND
Pesticides	NE

AOC-3-SW-8	8/8/2019
Depth (ft bls)	0-2
VOCs	
Acetone	0.05

AOC-3-SW-7	8/8/2019
Depth (ft bls)	0-2
VOCs	
Acetone	0.1

AOC-3-BEP5	8/12/2019
Depth (ft bls)	5-7
VOCs	
Acetone	0.06

DEP-A5	9/5/2019
Depth (ft bls)	
VOCs	
Acetone	0.072
SVOCs	
Benzo(A)Anthracene	2.6
Benzo(A)Pyrene	2.2
Benzo(B)Fluoranthene	2.9
Chrysene	2.3
Dibenz(A,H)Anthracene	0.37
Indeno(1,2,3-C,D)Pyrene	1.8
Metals	NE
PCBs	NE
Pesticides	NE

DEP-A6	9/5/2019
Depth (ft bls)	
VOCs	
Acetone	0.36
SVOCs	
Benzo(A)Anthracene	6.6
Benzo(A)Pyrene	5.5
Benzo(B)Fluoranthene	7.6
Benzo(K)Fluoranthene	1.8
Chrysene	5.2
Dibenz(A,H)Anthracene	0.94
Indeno(1,2,3-C,D)Pyrene	4.4
Metals	NE
PCBs	NE
Pesticides	NE

DEP-B6	9/5/2019
VOCs	
Acetone	0.24
SVOCs	NE
Metals	NE
PCBs	NE
Pesticides	NE

DEP-B5	8/30/2019	FD
Depth (ft bls)		
VOCs		
Acetone	0.06	ND
SVOCs		
Benzo(A)Anthracene	1.2	NE
Benzo(A)Pyrene	1.1	NE
Benzo(B)Fluoranthene	1.5	NE
Chrysene	1.1	NE
Indeno(1,2,3-C,D)Pyrene	0.84	NE
Metals	NE	NE
PCBs	NE	NE
Pesticides	NE	NE

DEP-D6	9/5/2019
VOCs	
Acetone	0.096
SVOCs	
Benzo(A)Anthracene	1.7
Benzo(A)Pyrene	1.5
Benzo(B)Fluoranthene	2.1
Chrysene	1.5
Indeno(1,2,3-C,D)Pyrene	1.1
Metals	NE
PCBs	NE
Pesticides	NE

DEP-C6	9/5/2019
VOCs	
Acetone	0.093
SVOCs	
Benzo(A)Anthracene	1.3
Benzo(A)Pyrene	1.3
Benzo(B)Fluoranthene	1.8
Chrysene	1.3
Indeno(1,2,3-C,D)Pyrene	0.95
Metals	NE
PCBs	NE
Pesticides	NE

LEGEND

- SITE BOUNDARY
- DEP-A1 — LOCATION AND DESIGNATION OF BOTTOM/SIDEWALL DOCUMENTATION SAMPLE
- TAX LOT BOUNDARY
- 17 — TAX LOT NUMBER
- CATCH BASIN
- AOC — AREA OF CONCERN
- AST — ABOVEGROUND STORAGE TANK
- UST — UNDERGROUND STORAGE TANK
- AREA OF CONCERN BASED ON REMEDIAL INVESTIGATION RESULTS
- LIMITS OF EXCAVATION TO APPROXIMATELY 5 FEET BELOW GRADE SURFACE
- LIMITS OF EXCAVATION TO APPROXIMATELY 23–24 FEET BELOW GRADE SURFACE
- LIMITS OF IN SITU GROUNDWATER REMEDIATION
- ×40.610 — SPOT ELEVATION OF REMAINING CONTAMINATION IN SOIL (FEET ABOVE MEAN SEA LEVEL)

Parameter	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	NYSDEC Part 375 Protection of Groundwater Criteria
VOCs		
1,2,4-Trimethylbenzene	52	3.6
Acetone	100	0.05
Benzene	4.8	0.06
Ethylbenzene	41	1
N-Propylbenzene	100	3.9
Xylenes	100	1.6
SVOCs		
Benzo(A)Anthracene	1	1
Benzo(A)Pyrene	1	22
Benzo(B)Fluoranthene	1	1.7
Benzo(K)Fluoranthene	3.9	1.7
Chrysene	3.9	1
Dibenz(A,H)Anthracene	0.33	1000
Indeno(1,2,3-C,D)Pyrene	0.5	8.2
Metals		
Barium	400	820
Lead	400	450
Mercury	0.81	0.73

CONCENTRATIONS IN mg/kg

mg/kg – MILLIGRAMS PER KILOGRAM
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FD – DUPLICATE SAMPLE
VOCs – VOLATILE ORGANIC COMPOUNDS
SVOCs – SEMIVOLATILE ORGANIC COMPOUNDS
NE – NO EXCEEDANCE
ND – NO DETECTION
ft bls – FEET BELOW LAND SURFACE

RED DATA INDICATES THAT PARAMETER WAS DETECTED ABOVE THE NYSDEC PART 375 PROTECTION OF GROUNDWATER SCO

SHADED DATA INDICATES THAT PARAMETER WAS DETECTED ABOVE THE NYSDEC PART 375 RESTRICTED RESIDENTIAL SCO

N

30' 0 30'

Title:

REMAINING SOIL CONTAMINATION

PERIODIC REVIEW REPORT
PARKCHESTER CROSSING
1590 WHITE PLAINS ROAD, BRONX, NEW YORK

Prepared for:

ZP REALTY, LLC

ROUX

Compiled by: P.K.	Date: 15APR21	FIGURE
Prepared by:. B.H.C.	Scale: AS SHOWN	3
Project Mgr: R.H.	Project: 2530.0001Y000	
File: 2530.0001Y140.04.DWG		

V:\CAD\PROJECTS\2530Y\0001Y\140\2530.0001Y140.04.DWG

APPENDICES

A. NYSDEC Site Management Plan and Sample Reduction Approvals
B. Laboratory Data
C. IC/EC Certification Form
D. Site Inspection Checklist and Photo Log

APPENDIX A

NYSDEC Site Management Plan and Sample Reduction Approvals

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9767 I F: (518) 402-9773
www.dec.ny.gov

July 29, 2022

ZP Realty LLC
Attn: Joel Wiener
One Penn Plaza, Suite 4000
New York, NY 10119

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

Parkchester Crossing, Bronx
Bronx County, Site No.: C203079

Dear Joel Wiener:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: April 23, 2021 to April 23, 2022.

The Department hereby accepts the PRR and associated Certification. Periodic Reviews for this site are due on annual basis, therefore, your next PRR is due on May 23, 2023. You will receive a reminder letter and updated certification form 75 days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

In an email dated June 13, 2022, the Department approved a request from your consultant, Roux Environmental Engineering and Geology, D.P.C. (Roux), to reduce the number of groundwater monitoring wells sampled to three wells (RMW-5, RMW-9R, and RMW-11R) and reduce the sampling frequency from quarterly to annually. Based on the continued presence of volatile organic compounds above Standards, Criteria, and Guidance in monitoring well RMW-11R located in AOC-4, Roux's most recent request to terminate the annual groundwater monitoring is not approved at this time. Rather, monitoring wells RMW-5 and RMW-11R should continue to be sampled on an annual basis. Based on previous discussions with Roux, it is understood that the next round of annual sampling will be performed in September 2022.

If you have any questions, or need additional forms, please contact me at 518-402-9615 or e-mail: ronnie.lee@dec.ny.gov.

Sincerely,

Ronnie Lee
Project Manager

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: S. Quandt
J. O'Connell
M. Sergott
J. Wiener (joel@pinnacleny.com)
R. Henke (rhenke@rouxinc.com)
F. Cherena (fcherena@roux@rouxinc.com)
S. Furman (sfurman@sprlaw.com)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9767 I F: (518) 402-9773
www.dec.ny.gov

December 18, 2019

ZP Realty LLC
Attn: Mr. Joel Wiener
1 Penn Plaza, Suite 4000
New York, NY 10119

RE: **Site Management Plan**
Parkchester Crossing
Site ID No.: C203079

Dear Mr. Wiener:

The New York State Department of Environmental Conservation in consultation with the New York State Department of Health has reviewed the Site Management Plan (SMP), dated December 9, 2019 for the above-referenced site.

The SMP contains a comprehensive plan that provides detailed monitoring provisions and discussion of the Institutional and Engineering Controls developed for the site, as well as provisions for the annual certification of those controls. The SMP is hereby approved.

In accordance with the requirements of the Brownfield Cleanup Agreement, please ensure that the approved SMP is made available at the document repositories located at the New York Public Library – Parkchester Branch, 1985 Westchester Avenue, Bronx, New York 10462 and Bronx Community Board #9, 1967 Turnbull Avenue, Room 7, Bronx, New York 10473, and provide certification that the repositories have been populated with all relevant site-related documents. If it is acceptable to the repositories, the SMP may be submitted in electronic format only on computer disk (CD). In general, electronic documents should be delivered on CD which is CD-R type and "closed" so that no changes can be made to the file on the disk. The disk should contain an Adobe Acrobat® Portable File Document (PDF) file and must be searchable.

If you have any questions, please contact me at 518-402-9767 or via email at ronnie.lee@dec.ny.gov.

Sincerely,

Ronnie E. Lee

Ronnie E. Lee, P.E.
Project Manager
Remedial Bureau B
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: G. Burke, DEC
J. O'Connell, DEC – Reg. 2
M. Sergott, DOH
R. Henke, Roux
F. Cherena, Roux

Laboratory Data

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L2411331

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.

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Project Name: PARKCHESTER CROSSING
Project Number: 2530.0001Y000

Lab Number: L2411331
Report Date: 03/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2411331-01	RMW-5	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 08:30	03/01/24
L2411331-02	RMW-9R	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 10:30	03/01/24
L2411331-03	RMW-11R	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 09:30	03/01/24
L2411331-04	DUP030124	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 09:35	03/01/24
L2411331-05	FIELD BLANK 030124	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 10:00	03/01/24

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

L2411331-01 through -04 and WG1893322-3/-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

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: Kelly Stenstrom Report Date: 03/08/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2411331

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2530.0001Y000
Project Name : PARKCHESTER CROSSING

Received : 01-MAR-2024
Reviewer : Olivia Hoyland

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	

Condition Information

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

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 08 2024, 07:29 pm

Login Number: L2411331
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2530.0001Y000
Received: 01MAR24 Due Date: 15MAR24

Sample #	Client ID	Mat	PR	Collected
L2411331-01	RMW-5	S0	1	01MAR24 08:30

Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs ASP-B Package Due Date: 03/15/24

A2-NY-537-ISOTOPE,ASP-B

L2411331-02	RMW-9R	S0	1	01MAR24 10:30

L2411331-02 MS L2411331-02 MSD Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs Package Due Date: 03/15/24

A2-MS/MSD,A2-NY-537-ISOTOPE

L2411331-03	RMW-11R	S0	1	01MAR24 09:30

Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs Package Due Date: 03/15/24

A2-NY-537-ISOTOPE

L2411331-04	DUP030124	S0	1	01MAR24 09:35

Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs Package Due Date: 03/15/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 08 2024, 07:29 pm

Login Number: L2411331

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2530.0001Y000

Received: 01MAR24 Due Date: 15MAR24

Sample #	Client ID	Mat	PR	Collected
A2-NY-537-ISOTOPE				
L2411331-05	FIELD BLANK 030124	S0	1	01MAR24 10:00

Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs Package Due Date: 03/15/24

A2-NY-537-ISOTOPE

Logged By: Olivia Hoyland

ALPHA ANALYTICAL LABORATORIES

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

NEW YORK CHAIN OF CUSTODY

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 of 1

Date Rec'd in Lab: 3/2/24

ALPHA Job #: L2411331

Client Information

Client: Roux Env. Eng. & Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: rhenke@rouxinc.com

Project Information

Project Name: Parkchester Crossing
Project Location: 1590 White Plains Road, Bronx, NY
Project #: 2530.0001Y000
(Use Project name as Project #) ☐
Project Manager: Roux: Rachel Henke/ Alpha: Karyn Raymond
ALPHAQuote #:

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOCs
A2-NY-537 Ethanol

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	TCL VOCs	A2-NY-537 Ethanol	Sample Specific Comments	Total Bottle
-01	RMW-5	03 01 24	0830	GW	MS	X	X		2
-02	RMW-9R	03 01 24	1030	GW	MS	X	X		2
-03	RMW-11R	03 01 24	0930	GW	MS	X	X		2
-04	Dup030124	03 01 24	0935	GW	MS	X	X		2
-02	RMW-9R MS	03 01 24	1035	GW	MS		X		2
-02	RMW-9R MSD	03 01 24	1040	GW	MS		X		2
-05	Field Blank030124	03 01 24	1000	GW	MS		X		1

Container Type: P
Preservative: 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
[illegible]	03-01-24 1400	[illegible]	3/1/24 1400
[illegible]	3/1/24 1705	Paul Maggella	3/1/24 1705
Paul Maggella	3/1/24	[illegible]	3/1/24 23:00
[illegible]	3/1/24 2300		

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.

on 3/2/24 600
FR Mendoza 3/2/24 0720

FR Mendoza AAL 3/2/24 0005
Olivia Hoglund AAL 3/2/24 07:20

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

Organics

PFAAs via EPA 537
by Isotope Dilution

Semivolatiles QC Summary

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: PARKCHESTER CROSSING

Lab Number: L2411331
Project Number: 2530.0001Y000
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
RMW-5 (L2411331-01)	89	37*	59*	55*	64	83	91
RMW-9R (L2411331-02)	92	50*	78	71	73	93	92
RMW-11R (L2411331-03)	84	43*	75	63	67	89	85
DUP030124 (L2411331-04)	82	43*	72	62	67	87	85
FIELD BLANK 030124 (L2411331-05)	103	112	105	107	96	112	103
WG1893322-1BLANK	105	120	108	112	100	115	107
WG1893322-2LCS	105	113	102	108	99	107	108
RMW-9RMS	95	50*	83	78	81	98	102
RMW-9RMSD	90	50*	80	72	75	88	93

QC LIMITS

(58-132) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(62-163) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(70-131) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(57-129) S4 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(60-129) S5 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(71-134) S6 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)
(62-129) S7 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: PARKCHESTER CROSSING

Lab Number: L2411331
Project Number: 2530.0001Y000
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
RMW-5 (L2411331-01)	187*	105	94	86	178*	83	94
RMW-9R (L2411331-02)	195*	99	89	80	191*	113	92
RMW-11R (L2411331-03)	193*	93	91	74	213*	99	91
DUP030124 (L2411331-04)	183*	96	89	80	196*	107	94
FIELD BLANK 030124 (L2411331-05)	102	99	97	96	104	99	99
WG1893322-1BLANK	111	106	101	104	116	101	109
WG1893322-2LCS	118	102	101	103	115	115	108
RMW-9RMS	218*	110	99	92	242*	135*	116
RMW-9RMSD	197*	100	87	88	205*	129*	107

QC LIMITS

(14-147) S8 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(59-139) S9 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(69-131) S10 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(62-124) S11 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(10-162) S12 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(24-116) S13 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)
(55-137) S14 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: PARKCHESTER CROSSING

Lab Number: L2411331
Project Number: 2530.0001Y000
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()	TOT OUT
RMW-5 (L2411331-01)	34	91	86	91	--	--	--	5
RMW-9R (L2411331-02)	33	107	80	102	--	--	--	3
RMW-11R (L2411331-03)	34	110	89	102	--	--	--	3
DUP030124 (L2411331-04)	30	110	90	104	--	--	--	3
FIELD BLANK 030124 (L2411331-05)	60	99	87	90	--	--	--	0
WG1893322-1BLANK	63	102	97	97	--	--	--	0
WG1893322-2LCS	65	106	97	99	--	--	--	0
RMW-9RMS	34	141*	107	117	--	--	--	5
RMW-9RMSD	43	143*	95	109	--	--	--	5

QC LIMITS

(10-112) S15 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(27-126) S16 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(48-131) S17 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(22-136) S18 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)

*** Values outside of QC limits**

FORM II A2-NY-537-ISOTOPE (Continued)

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG1893322-2 **Analysis Date** : 03/08/24 06:43	**File ID**	: W01_240308_07
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	40	37.3	93				-	67-148	30
Perfluoropentanoic Acid (PFPeA)	40	35.9	90				-	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	35.5	34.2	96				-	65-157	30
Perfluorohexanoic Acid (PFHxA)	40	38.9	97				-	69-168	30
Perfluoroheptanoic Acid (PFHpA)	40	37.0	92				-	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	36.6	31.4	86				-	69-177	30
Perfluorooctanoic Acid (PFOA)	40	35.7	89				-	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	38.1	35.9	94				-	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.2	38.1	100				-	61-179	30
Perfluorononanoic Acid (PFNA)	40	38.0	95				-	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	37.1	31.9	86				-	52-151	30
Perfluorodecanoic Acid (PFDA)	40	35.9	90				-	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	38.4	36.1	94				-	56-173	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG1893322-2 **Analysis Date** : 03/08/24 06:43	**File ID**	: W01_240308_07
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	40	35.0	88				-	60-166	30
Perfluoroundecanoic Acid (PFUnA)	40	35.5	89				-	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	38.6	33.6	87				-	38-156	30
Perfluorooctanesulfonamide (FOSA)	40	33.2	83				-	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	40	34.2	86				-	45-170	30
Perfluorododecanoic Acid (PFDoA)	40	35.5	89				-	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	40	50.1	125				-	48-158	30
Perfluorotetradecanoic Acid (PFTA)	40	36.3	91				-	59-182	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER ()
Lab Sample ID	: L2411331-02	**Analysis Date**	: 03/08/24 07:16
Matrix Spike	: WG1893322-3	**MS Analysis Date**	: 03/08/24 07:32
Matrix Spike Dup	: WG1893322-4	**MSD Analysis Date**	: 03/08/24 07:49

		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)	10.7	37	43.7	89	37.2	43.7	89	0	67-148	30
Perfluoropentanoic Acid (PFPeA)	7.75	37	40.2	88	37.2	40.4	88	0	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	1.99	32.8	34.2	98	33	33.2	94	3	65-157	30
Perfluorohexanoic Acid (PFHxA)	9.18	37	43.5	93	37.2	44.1	94	1	69-168	30
Perfluoroheptanoic Acid (PFHpA)	7.69	37	42.8	95	37.2	42.1	92	2	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	2.92F	33.8	32.6	88	34	33.3	89	2	69-177	30
Perfluorooctanoic Acid (PFOA)	22.8	37	57.8	95	37.2	55.3	87	4	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35.2	35.2	100	35.4	34.9	98	1	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	0.752JF	35.3	33.2	92	35.5	36.2	100	9	61-179	30
Perfluorononanoic Acid (PFNA)	3.93	37	38.8	94	37.2	38.7	93	0	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	35.1	34.3	66.2	91	34.5	66.2	90	0	52-151	30
Perfluorodecanoic Acid (PFDA)	5.10	37	39.7	94	37.2	37.9	88	5	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.5	34.0	96	35.7	34.7	97	2	56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	4.02	37	37.7	91	37.2	37.8	91	0	60-166	30
Perfluoroundecanoic Acid (PFUnA)	0.548JF	37	32.6	87	37.2	31.2	82	4	60-153	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER ()
Lab Sample ID	: L2411331-02	**Analysis Date**	: 03/08/24 07:16
Matrix Spike	: WG1893322-3	**MS Analysis Date**	: 03/08/24 07:32
Matrix Spike Dup	: WG1893322-4	**MSD Analysis Date**	: 03/08/24 07:49

		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
Perfluorodecanesulfonic Acid (PFDS)	ND	35.7	36.0	101	36	33.2	92	8	38-156	30
Perfluorooctanesulfonamide (FOSA)	2.20F	37	31.0F	78	37.2	29.6	74	5	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.58	37	34.5	84	37.2	31.9	76	8	45-170	30
Perfluorododecanoic Acid (PFDoA)	0.462JF	37	32.7	87	37.2	31.9	84	2	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	ND	37	44.4	120	37.2	44.5	120	0	48-158	30
Perfluorotetradecanoic Acid (PFTA)	ND	37	34.6	94	37.2	33.5	90	3	59-182	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab Sample ID	: WG1893322-1	**Lab File ID**	: W01_240308_06
Instrument ID	: LCMS01	**Extraction Date**	: 03/07/24
Matrix	: WATER	**Analysis Date**	: 03/08/24 06:26
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1893322-2LCS	WG1893322-2	03/08/24 06:43
RMW-5	L2411331-01	03/08/24 06:59
RMW-9R	L2411331-02	03/08/24 07:16
RMW-9RMS	WG1893322-3	03/08/24 07:32
RMW-9RMSD	WG1893322-4	03/08/24 07:49
RMW-11R	L2411331-03	03/08/24 08:05
DUP030124	L2411331-04	03/08/24 08:22
FIELD BLANK 030124	L2411331-05	03/08/24 08:38

Date Created: 07/24/23
Created By: Jason Hebert
File: PM14887-1
Page: 1

PFAAs via LCMSMS-Isotope Dilution (DW)

Holding Time: 28 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	0.408	ng/l	67-148	30	67-148	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.396	ng/l	63-161	30	63-161	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.238	ng/l	65-157	30	65-157	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	2	0.452	ng/l	37-219	30	37-219	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.328	ng/l	69-168	30	69-168	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	2	0.2452	ng/l	52-156	30	52-156	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.2252	ng/l	58-159	30	58-159	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.376	ng/l	69-177	30	69-177	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.236	ng/l	63-159	30	63-159	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	1.332	ng/l	49-187	30	49-187	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.688	ng/l	61-179	30	61-179	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.312	ng/l	68-171	30	68-171	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.504	ng/l	52-151	30	52-151	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.304	ng/l	63-171	30	63-171	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	1.212	ng/l	56-173	30	56-173	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	2	1.12	ng/l	48-150	30	48-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	2	0.648	ng/l	60-166	30	60-166	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.26	ng/l	60-153	30	60-153	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.98	ng/l	38-156	30	38-156	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.58	ng/l	46-170	30	46-170	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.804	ng/l	45-170	30	45-170	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.372	ng/l	67-153	30	67-153	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.3272	ng/l	48-158	30	48-158	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.248	ng/l	59-182	30	59-182	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	20	14.2	ng/l	57-162	30	57-162	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	2	0.336	ng/l	69-143	30	69-143	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	4	1.24	ng/l	40-167	30	40-167	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	4	1.148	ng/l	10-119	30	10-119	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	2	0.616	ng/l	69-141	30	69-141	30	30			
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	120226-60-0	5	2.02	ng/l	53-167	30	53-167	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	2	0.2768	ng/l	55-158	30	55-158	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	2	0.2932	ng/l	52-156	30	52-156	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	20	7.36	ng/l	10-185	30	10-185	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	20	6.64	ng/l	10-202	30	10-202	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	50	22.2	ng/l	10-209	30	10-209	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	50	22.52	ng/l	66-176	30	66-176	30	30			
Perfluoropropane Sulfonic Acid (PFPrS)	423-41-6	2	0.1876	ng/l	50-150	30	50-150	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	2	0.1976	ng/l	50-150	30	50-150	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	2	0.2012	ng/l	50-150	30	50-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	2	0.412	ng/l	50-150	30	50-150	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	8	2.988	ng/l	50-150	30	50-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*58-132*		

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.

PFAAs via LCMSMS-Isotope Dilution (DW)

Holding Time: 28 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[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*62-163*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*70-131*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*12-142*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*57-129*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*60-129*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*71-134*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*62-129*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*14-147*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*59-139*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*69-131*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*62-124*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*10-162*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*24-116*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*55-137*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*5-112*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*27-126*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*48-131*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*22-136*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*10-165*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*10-206*		
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	*NONE*									*50-150*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-161*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-160*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*10-189*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*10-187*		

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

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-01	**Date Collected**	: 03/01/24 08:30
Client ID	: RMW-5	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 06:59
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_08	**Analyst**	: AC
Sample Amount	: 276.86 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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)	15.5	1.80	0.368	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	24.4	1.80	0.358	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	18.3	1.80	0.215	
307-24-4	Perfluorohexanoic Acid (PFHxA)	28.7	1.80	0.296	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	41.2	1.80	0.203	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	16.2	1.80	0.340	
335-67-1	Perfluorooctanoic Acid (PFOA)	93.1	1.80	0.213	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.80	1.20	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.51	1.80	0.621	J
375-95-1	Perfluorononanoic Acid (PFNA)	11.3	1.80	0.282	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	71.2	1.80	0.455	
335-76-2	Perfluorodecanoic Acid (PFDA)	3.73	1.80	0.274	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.80	1.09	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.80	0.585	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.80	0.235	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.80	0.885	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.80	0.524	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.80	0.726	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-01	**Date Collected**	: 03/01/24 08:30
Client ID	: RMW-5	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 06:59
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_08	**Analyst**	: AC
Sample Amount	: 276.86 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.80	0.336	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.80	0.295	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.80	0.224	U
NONE	PFOA/PFOS, Total	164	1.80	0.213	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411331
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411331-02	Date Collected	: 03/01/24 10:30
Client ID	: RMW-9R	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/08/24 07:16
Sample Matrix	: WATER	Date Extracted	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: W01_240308_09	Analyst	: AC
Sample Amount	: 279.16 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	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)	10.7	1.79	0.365	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	7.75	1.79	0.355	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	1.99	1.79	0.213	
307-24-4	Perfluorohexanoic Acid (PFHxA)	9.18	1.79	0.294	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	7.69	1.79	0.202	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.92	1.79	0.337	F
335-67-1	Perfluorooctanoic Acid (PFOA)	22.8	1.79	0.211	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.79	1.19	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.752	1.79	0.616	JF
375-95-1	Perfluorononanoic Acid (PFNA)	3.93	1.79	0.279	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	35.1	1.79	0.451	
335-76-2	Perfluorodecanoic Acid (PFDA)	5.10	1.79	0.272	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.79	1.08	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	4.02	1.79	0.580	
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.548	1.79	0.233	JF
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.79	0.878	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.20	1.79	0.519	F
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.58	1.79	0.720	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-02	**Date Collected**	: 03/01/24 10:30
Client ID	: RMW-9R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 07:16
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_09	**Analyst**	: AC
Sample Amount	: 279.16 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	0.462	1.79	0.333	JF
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.79	0.293	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.79	0.222	U
NONE	PFOA/PFOS, Total	57.9	1.79	0.211	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411331
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411331-03	Date Collected	: 03/01/24 09:30
Client ID	: RMW-11R	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/08/24 08:05
Sample Matrix	: WATER	Date Extracted	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: W01_240308_12	Analyst	: AC
Sample Amount	: 282.86 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	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)	9.51	1.77	0.361	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	11.4	1.77	0.350	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	15.7	1.77	0.210	
307-24-4	Perfluorohexanoic Acid (PFHxA)	15.4	1.77	0.290	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	14.0	1.77	0.199	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	13.9	1.77	0.332	
335-67-1	Perfluorooctanoic Acid (PFOA)	42.5	1.77	0.208	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.77	1.18	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.12	1.77	0.608	J
375-95-1	Perfluorononanoic Acid (PFNA)	6.72	1.77	0.276	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	44.8	1.77	0.445	
335-76-2	Perfluorodecanoic Acid (PFDA)	6.37	1.77	0.269	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.77	1.07	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	5.62	1.77	0.573	F
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.792	1.77	0.230	JF
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.77	0.866	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	4.39	1.77	0.513	F
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	19.6	1.77	0.710	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-03	**Date Collected**	: 03/01/24 09:30
Client ID	: RMW-11R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 08:05
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_12	**Analyst**	: AC
Sample Amount	: 282.86 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	0.516	1.77	0.329	JF
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.77	0.289	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.77	0.219	U
NONE	PFOA/PFOS, Total	87.3	1.77	0.208	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411331
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411331-04	Date Collected	: 03/01/24 09:35
Client ID	: DUP030124	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/08/24 08:22
Sample Matrix	: WATER	Date Extracted	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: W01_240308_13	Analyst	: AC
Sample Amount	: 279.56 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	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)	10.1	1.79	0.365	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	12.1	1.79	0.354	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	15.2	1.79	0.213	
307-24-4	Perfluorohexanoic Acid (PFHxA)	15.3	1.79	0.293	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	13.4	1.79	0.201	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	13.6	1.79	0.336	
335-67-1	Perfluorooctanoic Acid (PFOA)	42.8	1.79	0.211	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.79	1.19	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.10	1.79	0.615	J
375-95-1	Perfluorononanoic Acid (PFNA)	6.36	1.79	0.279	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	44.2	1.79	0.451	
335-76-2	Perfluorodecanoic Acid (PFDA)	6.40	1.79	0.272	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.79	1.08	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	5.29	1.79	0.579	F
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.637	1.79	0.232	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.79	0.876	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	3.47	1.79	0.519	F
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	18.7	1.79	0.719	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-04	**Date Collected**	: 03/01/24 09:35
Client ID	: DUP030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 08:22
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_13	**Analyst**	: AC
Sample Amount	: 279.56 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.79	0.333	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.79	0.293	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.79	0.222	U
NONE	PFOA/PFOS, Total	87.0	1.79	0.211	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 08:38
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_14	**Analyst**	: AC
Sample Amount	: 281.89 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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	1.77	0.362	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.77	0.351	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.77	0.211	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.77	0.291	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.77	0.200	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.77	0.333	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.77	0.209	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.77	1.18	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.77	0.610	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.77	0.277	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.77	0.447	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.77	0.270	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.77	1.07	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.77	0.575	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.77	0.230	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.77	0.869	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.77	0.514	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.77	0.713	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411331-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/08/24 08:38
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_14	**Analyst**	: AC
Sample Amount	: 281.89 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.77	0.330	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.77	0.290	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.77	0.220	U
NONE	PFOA/PFOS, Total	ND	1.77	0.209	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: WG1893322-1	**Date Collected**	: NA
Client ID	: WG1893322-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/08/24 06:26
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_06	**Analyst**	: AC
Sample Amount	: 250 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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	0.408	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.00	0.396	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	2.00	0.238	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	2.00	0.328	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	2.00	0.225	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	0.376	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	2.00	0.236	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.00	1.33	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.00	0.688	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.00	0.312	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	0.504	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.00	0.304	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.00	1.21	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.00	0.648	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.00	0.260	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.00	0.980	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.00	0.580	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.00	0.804	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: WG1893322-1	**Date Collected**	: NA
Client ID	: WG1893322-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/08/24 06:26
Sample Matrix	: WATER	**Date Extracted**	: 03/07/24
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: W01_240308_06	**Analyst**	: AC
Sample Amount	: 250 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**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**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.00	0.372	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.00	0.327	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.00	0.248	U
NONE	PFOA/PFOS, Total	ND	2.00	0.236	U

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240308_537ISO.PRO\MethDB\537ISO_Q_240211_RT5.mdb 05 Mar 2024 06:12:37
Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: L2411331-01
Name: W01_240308_08
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	12944		4.305		na	
2	M3PFBA	INT STD	2.23	216.009 > 171.999	32680		4.261		na	42.6
3	MPFBA	INT STD	2.23	217.001 > 171.999	33191		8.926		na	89.3
4	PFPeA	2706-90-3	5.13	263.039 > 219.03	9958		6.769		na	
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	14553		3.748		na	37.5
6	PFBS	375-73-5	5.77	299.092 > 80.062	3847		5.073	1.87	NO	
7	M3PFBS	INT STD	5.77	302.069 > 80.062	6843		5.521		na	59.2
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.92	329.13 > 309.124	3930		10.759		na	114.7
10	PFHxA	307-24-4	7.01	313.047 > 269.037	15108		7.938	12.71	NO	
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	20042		5.458		na	54.6
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	440	M4	0.413	1.59	NO	
13	PFHpA	375-85-9	8.25	363.055 > 319.045	28664		11.394	4.17	NO	
14	M4PFHpA	INT STD	8.24	367.025 > 322.022	25037		6.409		na	64.1
15	br-PFHxS	355-46-4	8.17	399.107 > 80.062	929	M5,M7	0.907	1.99	NO	
16	L-PFHxS	355-46-4	8.40	399.107 > 80.062	3841		3.590	1.57	NO	
17	PFHxS	355-46-4		399.107 > 80.062	4770		4.496		na	
18	M3PFHxS	INT STD	8.40	402.084 > 80.062	9325		7.821		na	82.5
19	br-PFOA	335-67-1	8.94	413.063 > 369.053	7105		1.785	1.61	NO	
20	L-PFOA	335-67-1	9.16	413.063 > 369.053	95524		24.002	8.35	NO	
21	PFOA	335-67-1		413.063 > 369.053	102628		25.788		na	
22	M8PFOA	INT STD	9.16	421.002 > 376.	38709		9.119		na	91.2
23	M2PFOA	INT STD	9.16	415.048 > 370.045	41940		2.825		na	28.3
24	6:2FTS	27619-97-2		427.161 > 407.155			ND		YES	
25	M2-6:2FTS	INT STD	9.12	429.146 > 409.14	7486		17.838		na	187.6
26	PFHpS	375-92-8	9.25	449.115 > 80.062	489	M7	0.419	1.56	NO	
27	PFNA	375-95-1	9.94	463.071 > 419.061	14675		3.139	6.06	NO	
28	M9PFNA	INT STD	9.94	472.002 > 427.	46405		10.523		na	105.2
29	br-PFOS	1763-23-1	9.72	499.123 > 80.062	14137	M5	8.428	4.51	NO	
30	L-PFOS	1763-23-1	9.99	499.123 > 80.062	15881	M4	11.288	1.70	NO	
31	PFOS	1763-23-1		499.123 > 80.062	30018		19.715		na	
32	M4PFOS	INT STD	9.98	503.093 > 80.062	13050		3.524		na	36.7
33	M8PFOS	INT STD	9.98	507.062 > 80.062	12597		9.048		na	94.3
34	PFDA	335-76-2	10.58	513.078 > 469.069	5032		1.032	3.60	NO	
35	M2PFDA	INT STD	10.58	515.063 > 470.061	58654		4.372		na	43.7
36	M6PFDA	INT STD	10.58	519.033 > 474.03	50085		8.565		na	85.6
37	8:2FTS	39108-34-4		527.177 > 507.171			ND		YES	
38	M2-8:2FTS	INT STD	10.57	529.162 > 509.155	7574		17.068		na	177.8
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

ID: L2411331-01
Name: W01_240308_08
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.22 > 419.061	7487		8.336		na	83.4
41	br-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
42	L-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	0		ND		na	
44	PFUnA	2058-94-8		563.086 > 519.076			ND		YES	
45	M7-PFUDA	INT STD	11.15	570.033 > 525.031	59719		9.373		na	93.7
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6		498.146 > 78.07			ND		YES	
48	M8FOSA	INT STD	10.90	506.077 > 78.07	14569		3.388		na	33.9
49	d5-NEtFOSAA	INT STD	11.25	589.259 > 419.061	7682		9.075		na	90.7
50	br-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
51	L-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	0		ND		na	
53	PFDoA	307-55-1		613.094 > 569.084			ND		YES	
54	MPFDOA	INT STD	11.63	615.079 > 570.077	61772		8.639		na	86.4
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.43	715.094 > 670.092	58483		9.068		na	90.7

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

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Name: W01_240308_08
ID: L2411331-01
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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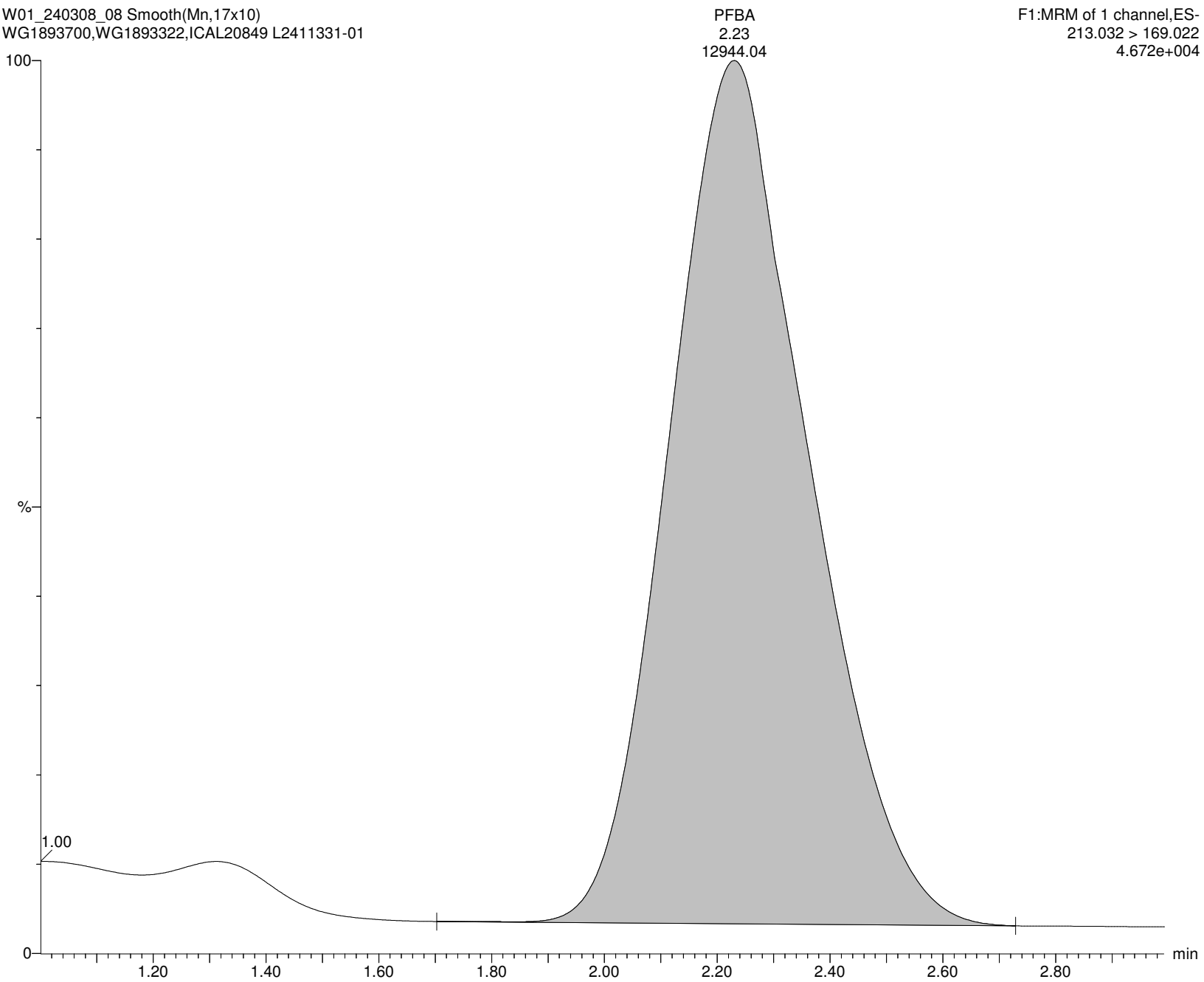

all concentration units in (ng/mL)

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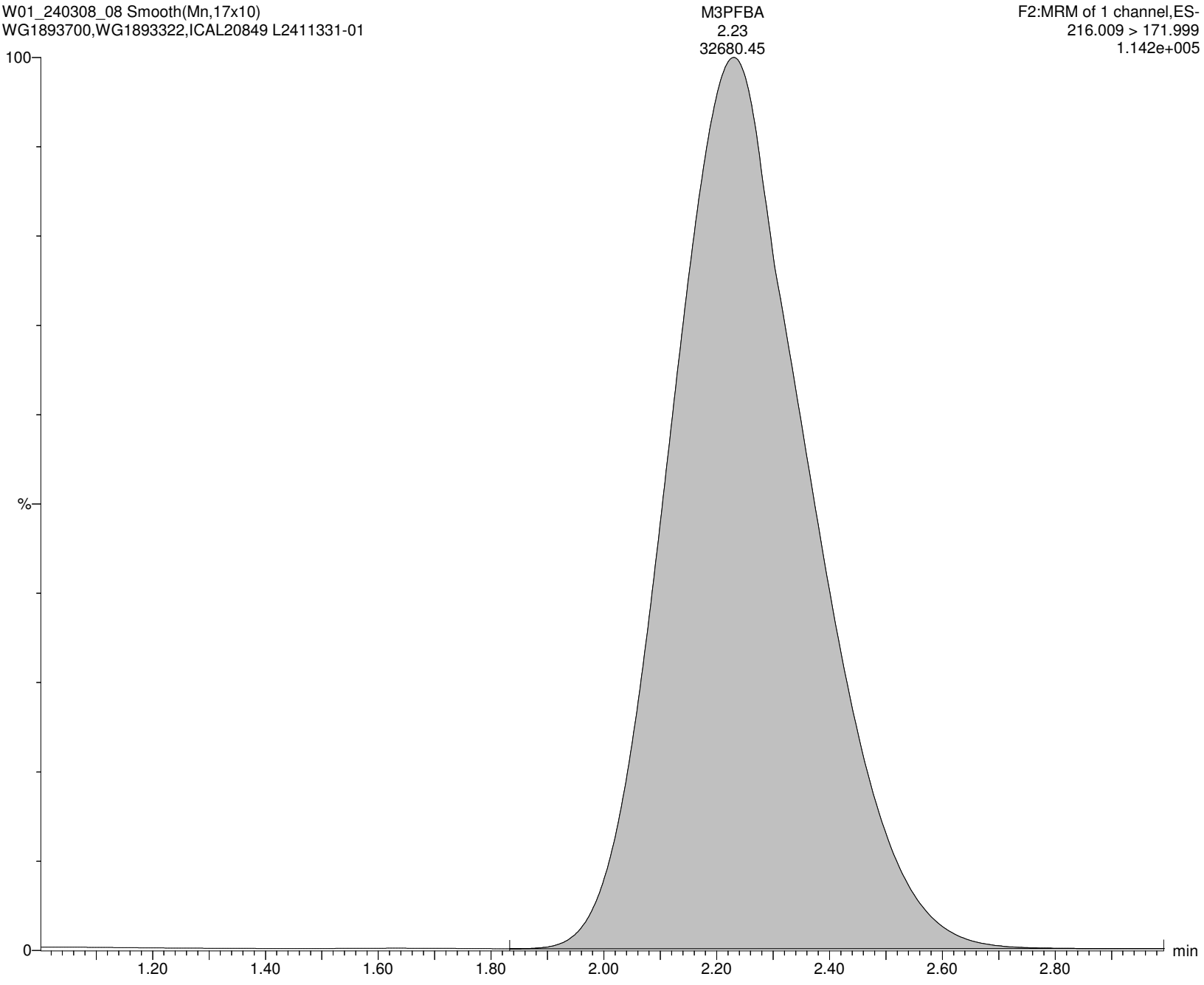

all concentration units in (ng/mL)

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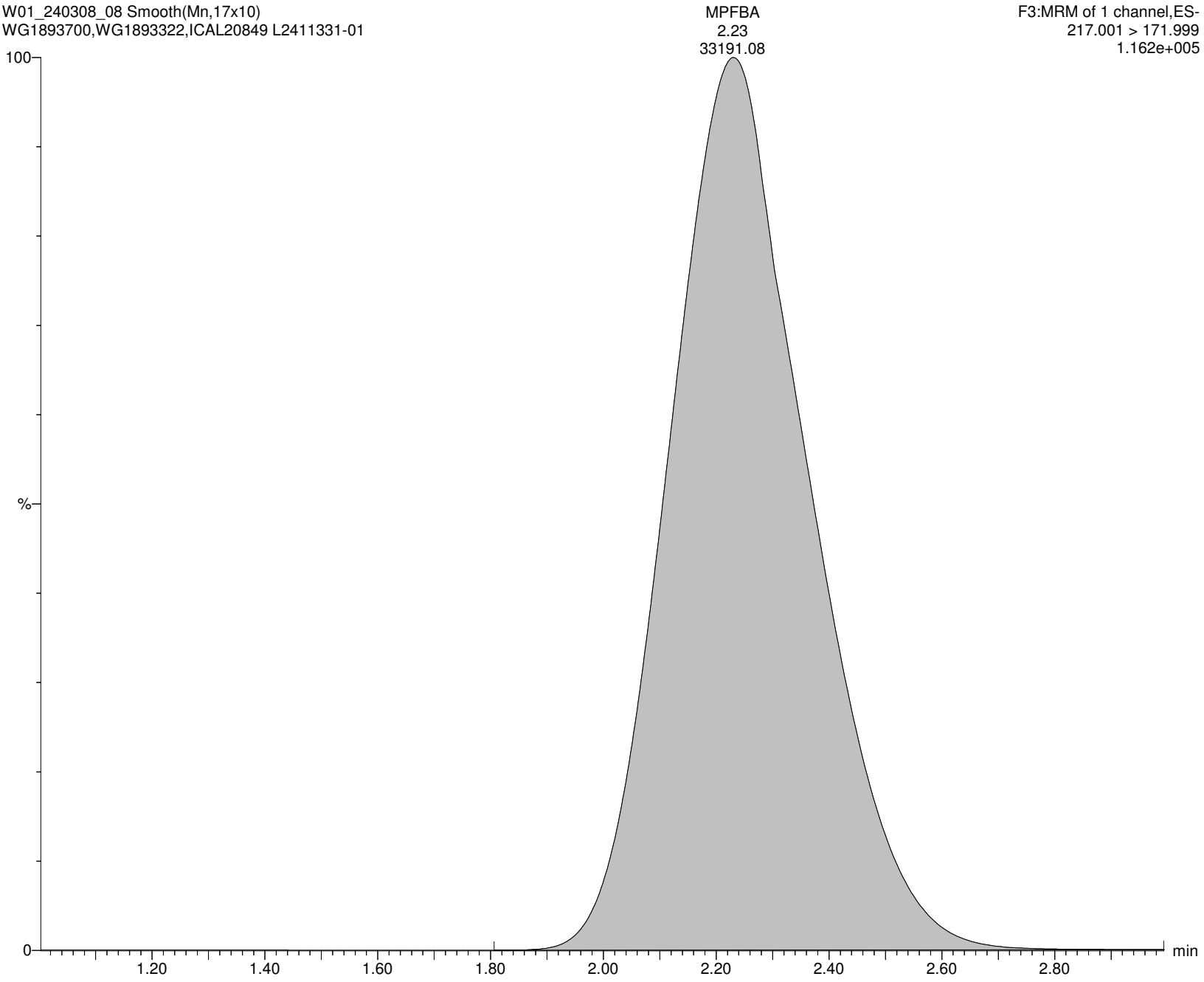

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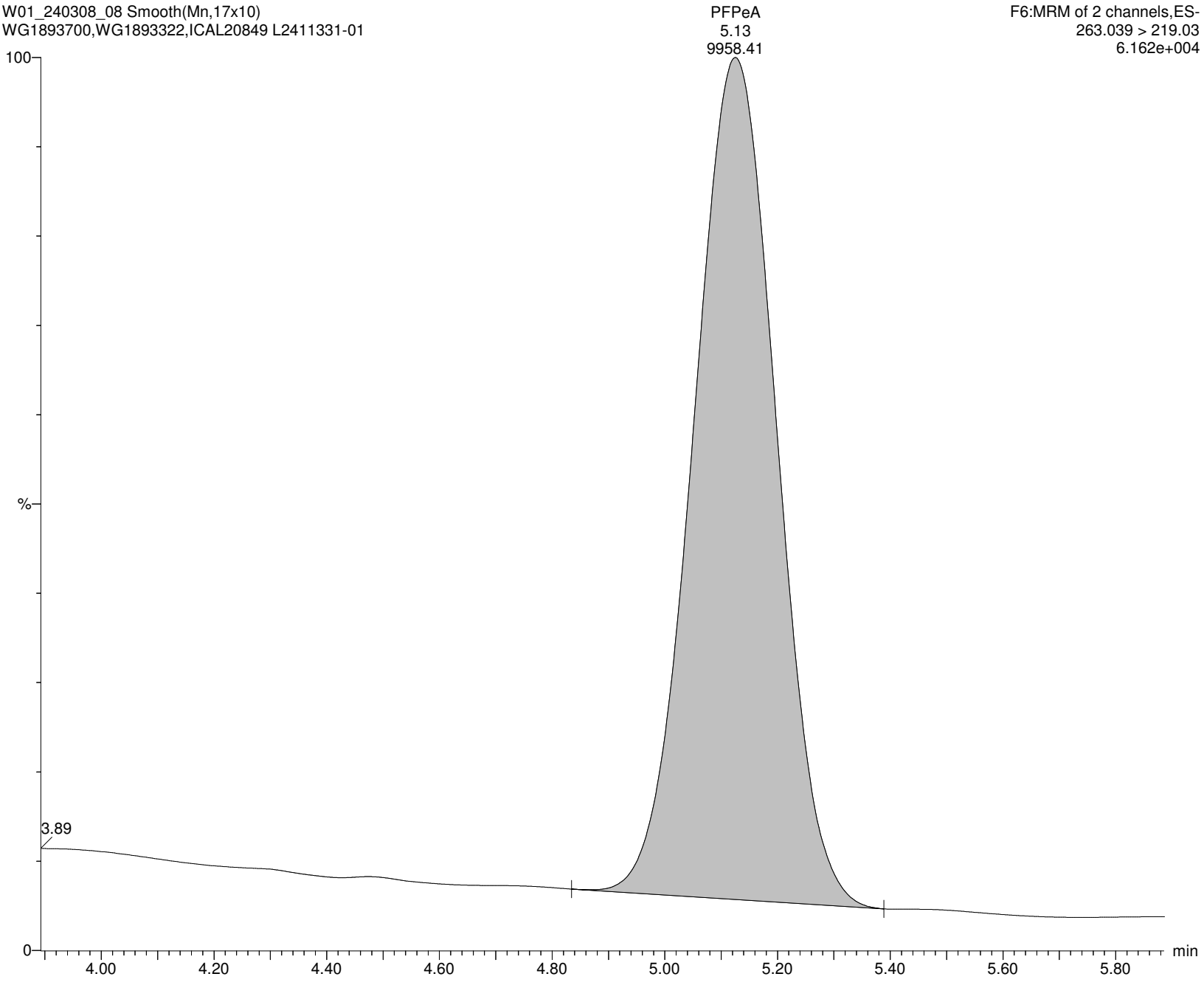

all concentration units in (ng/mL)

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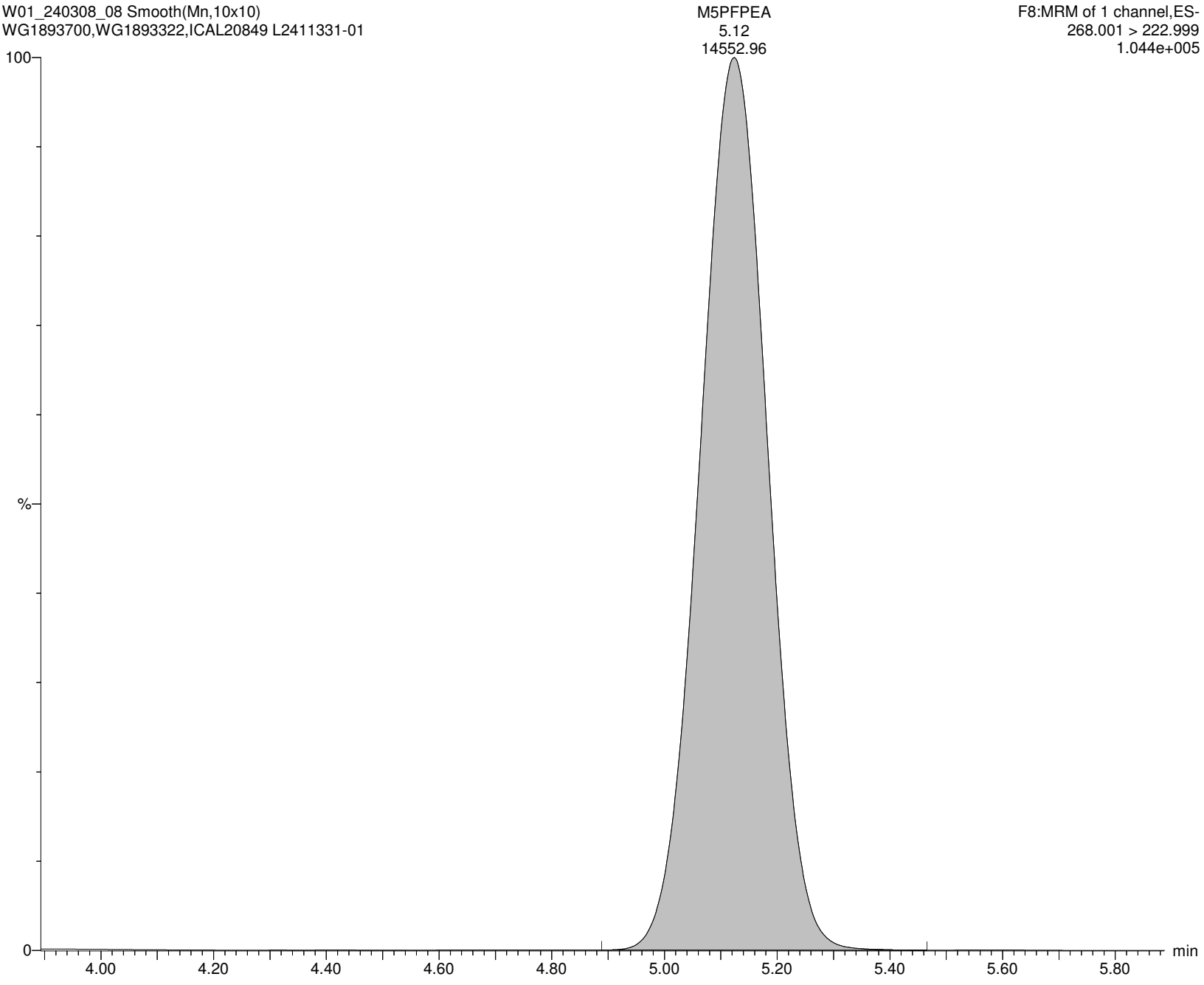

all concentration units in (ng/mL)

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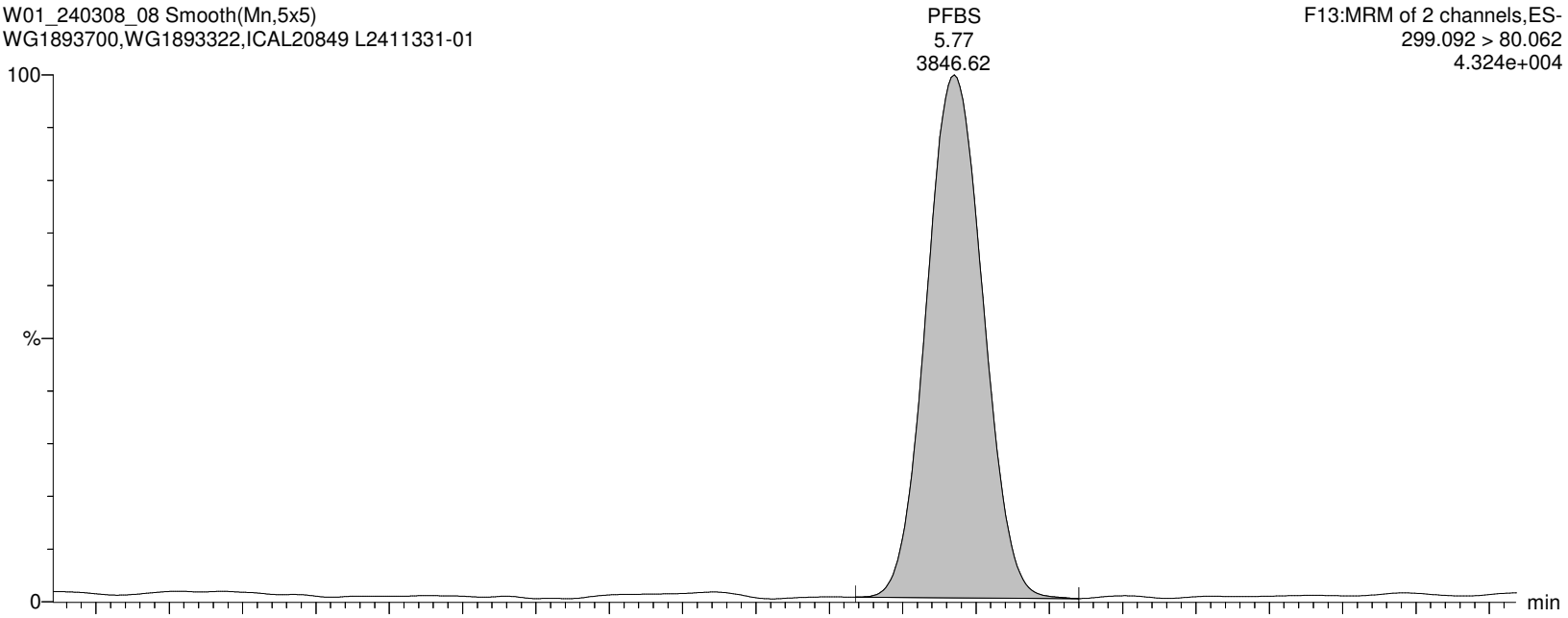

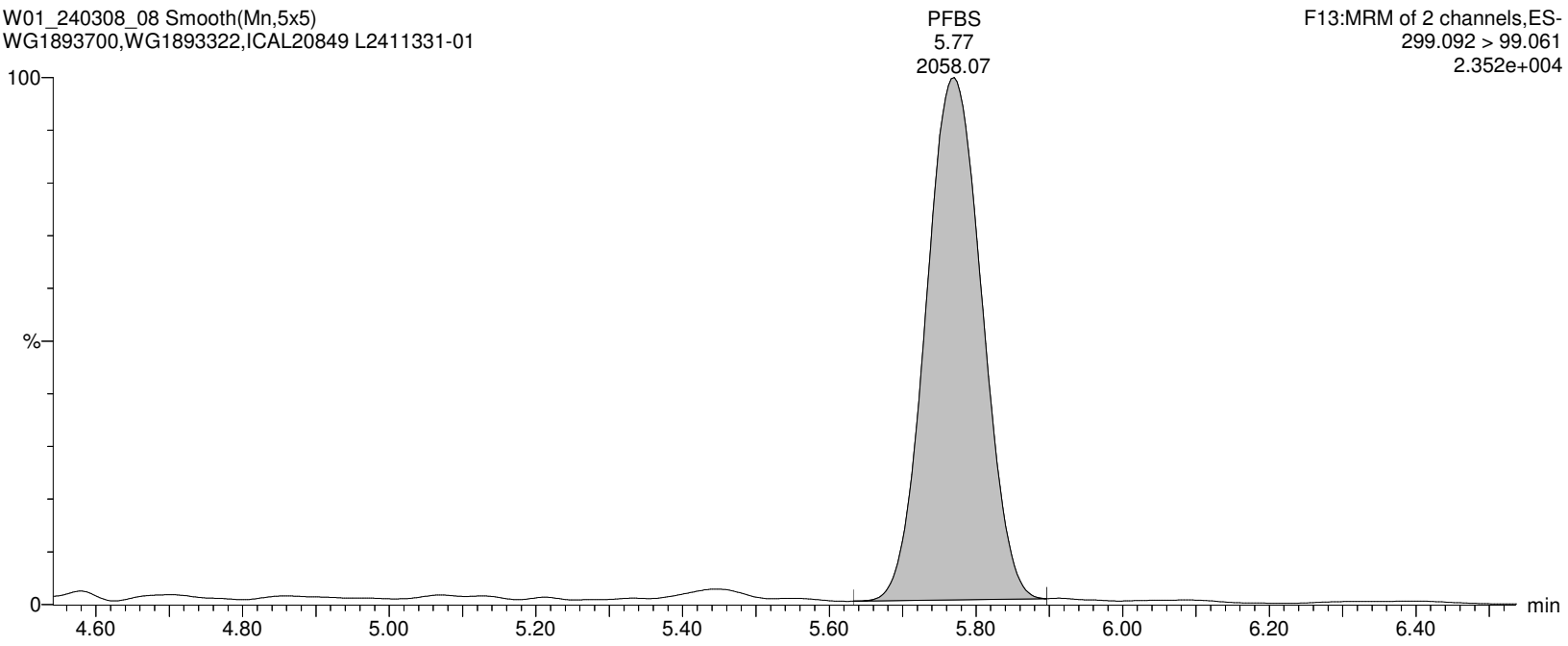

all concentration units in (ng/mL)

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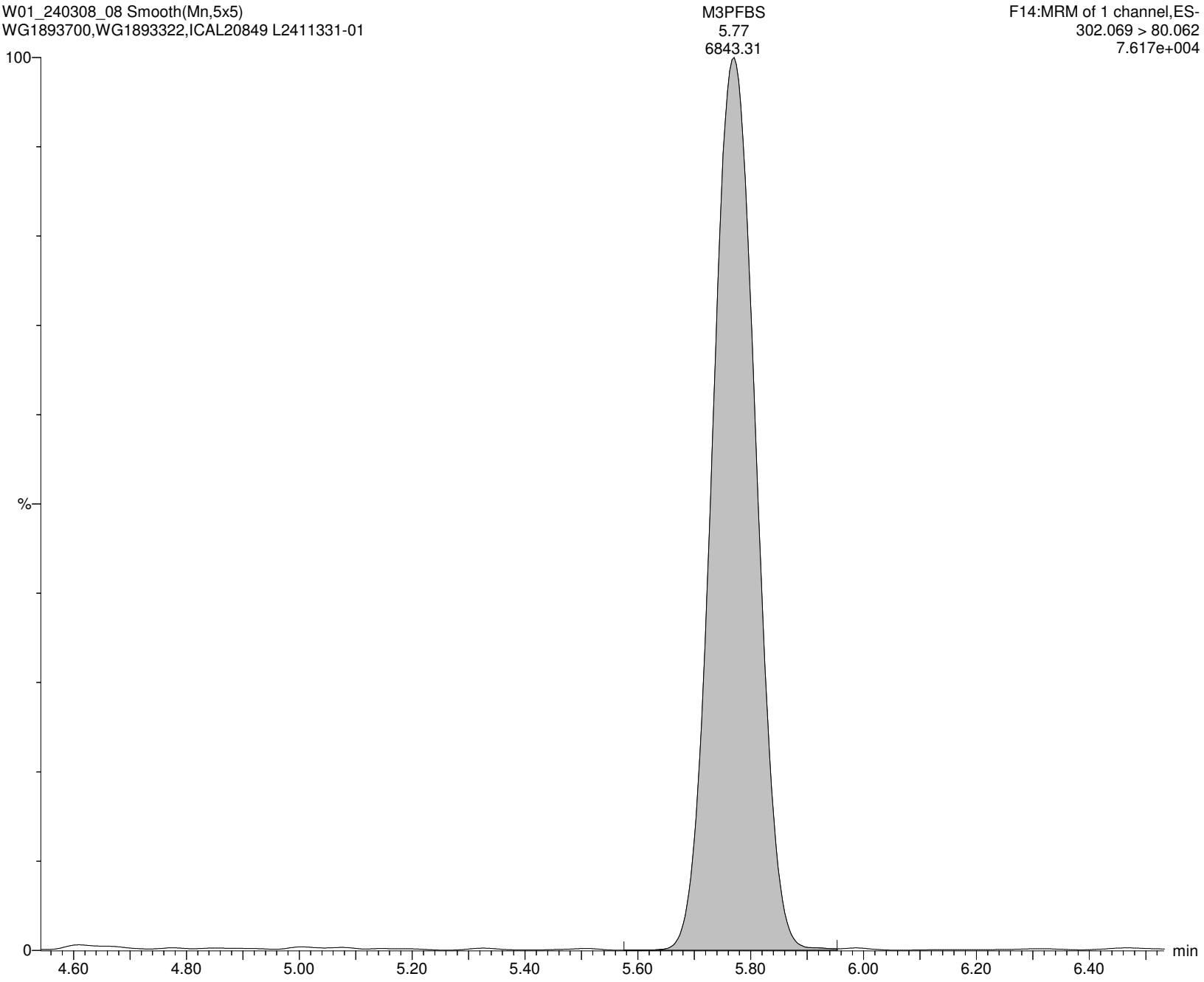

all concentration units in (ng/mL)

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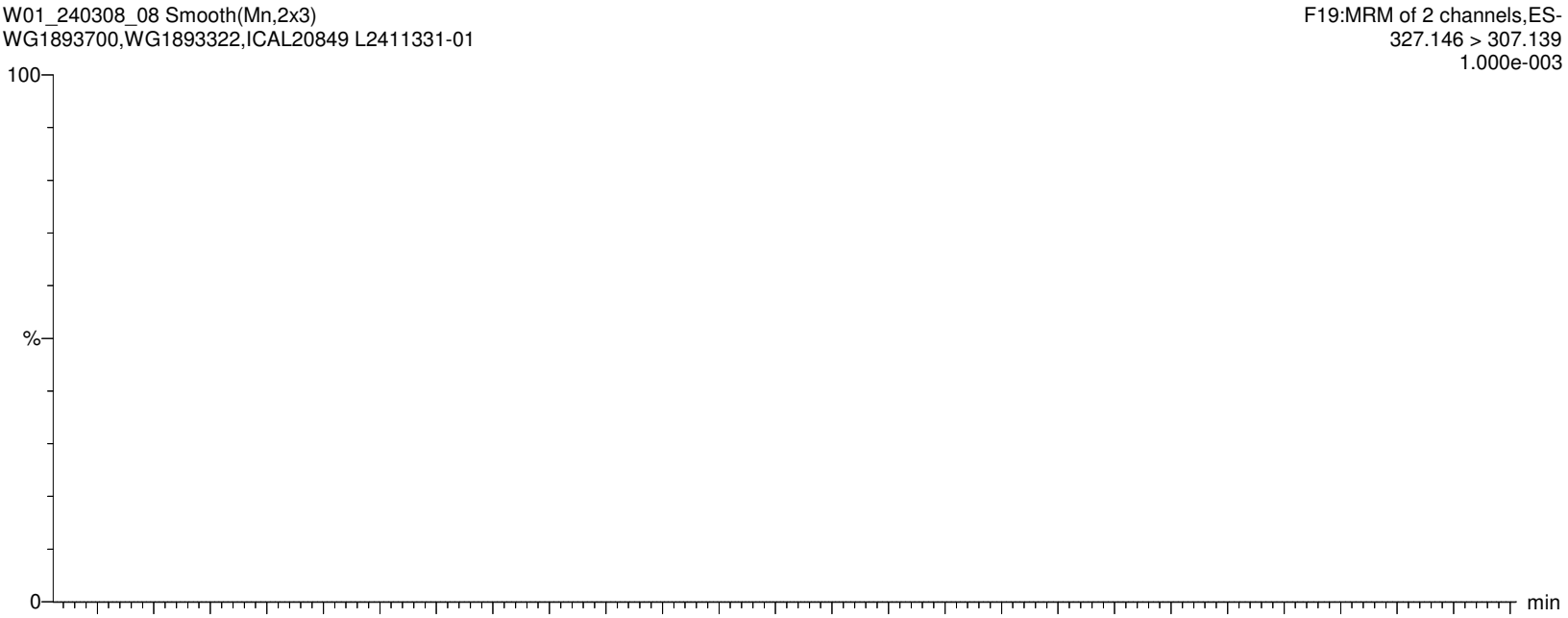

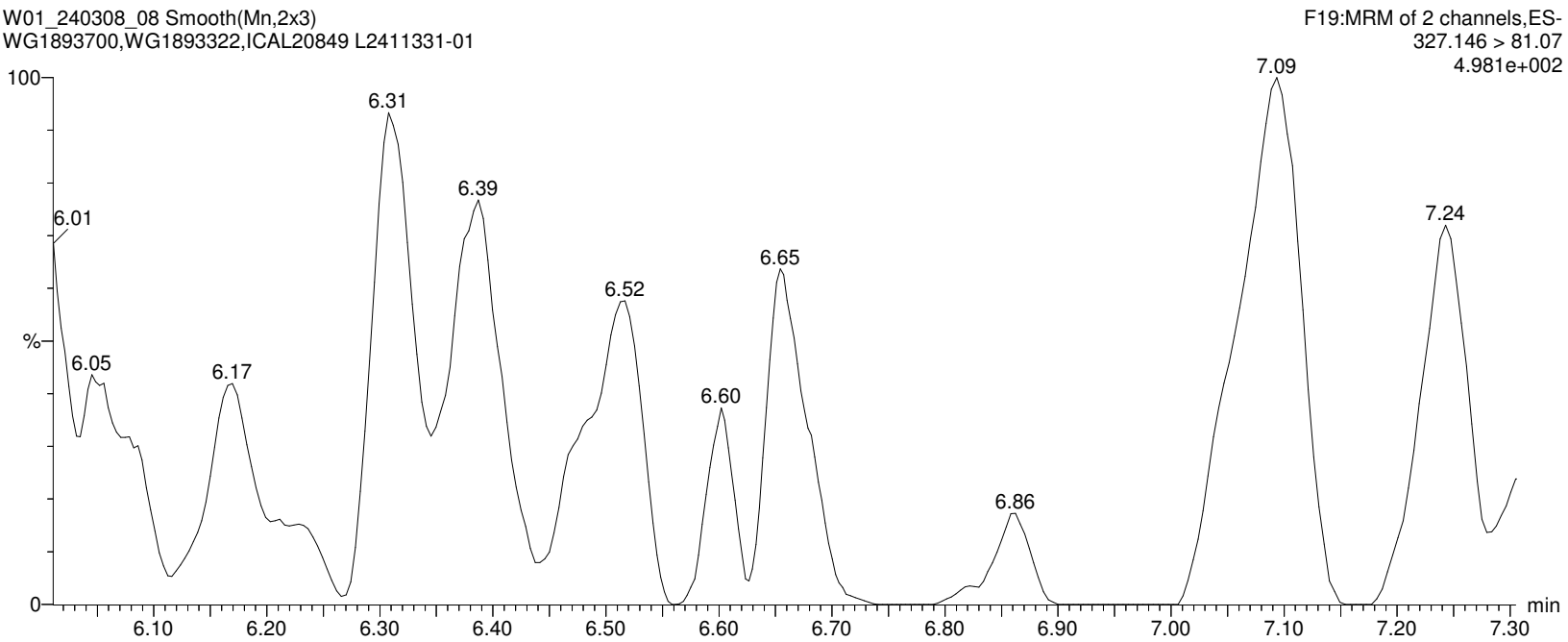

all concentration units in (ng/mL)

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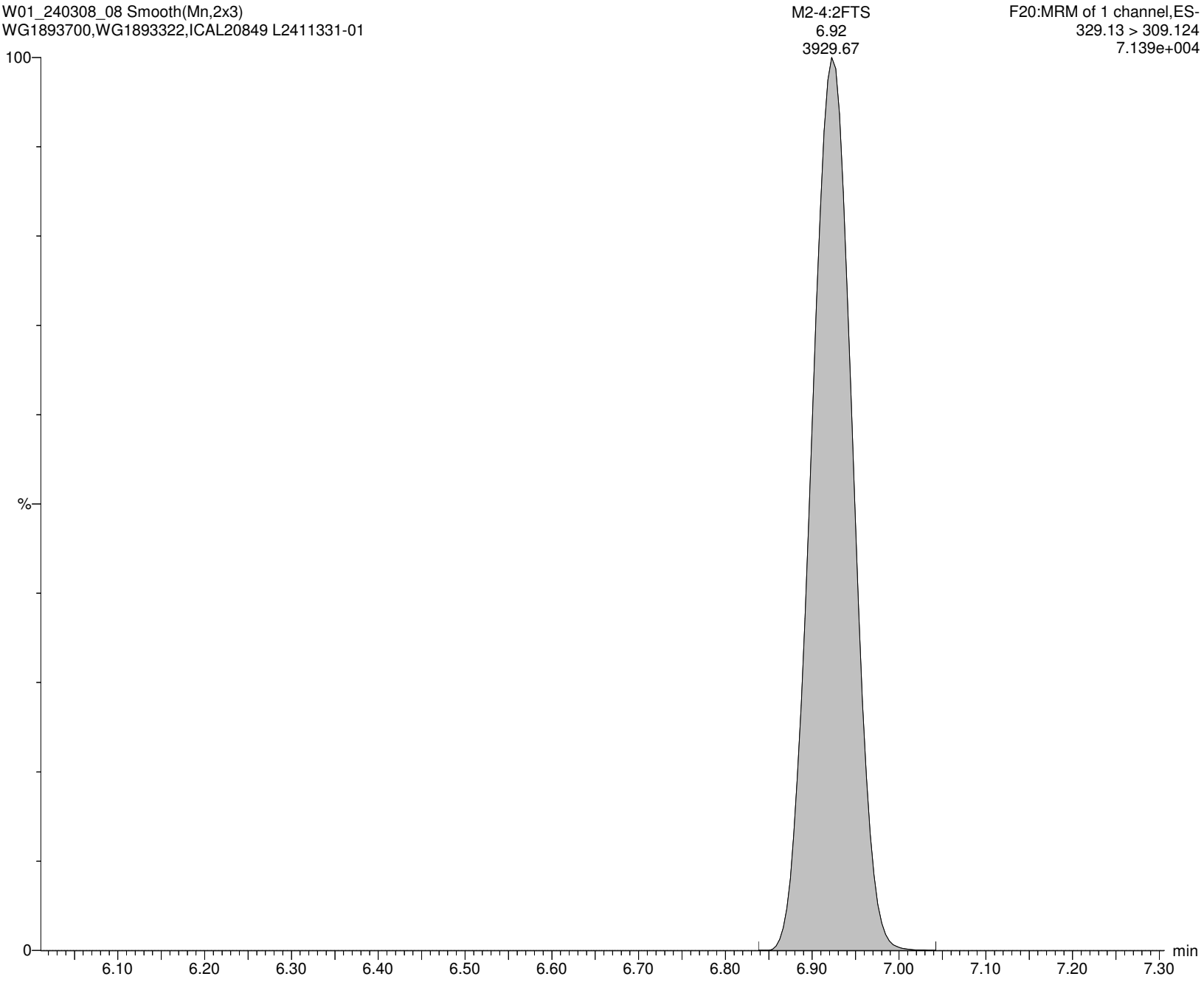

all concentration units in (ng/mL)

Alpha Analytical Inc.
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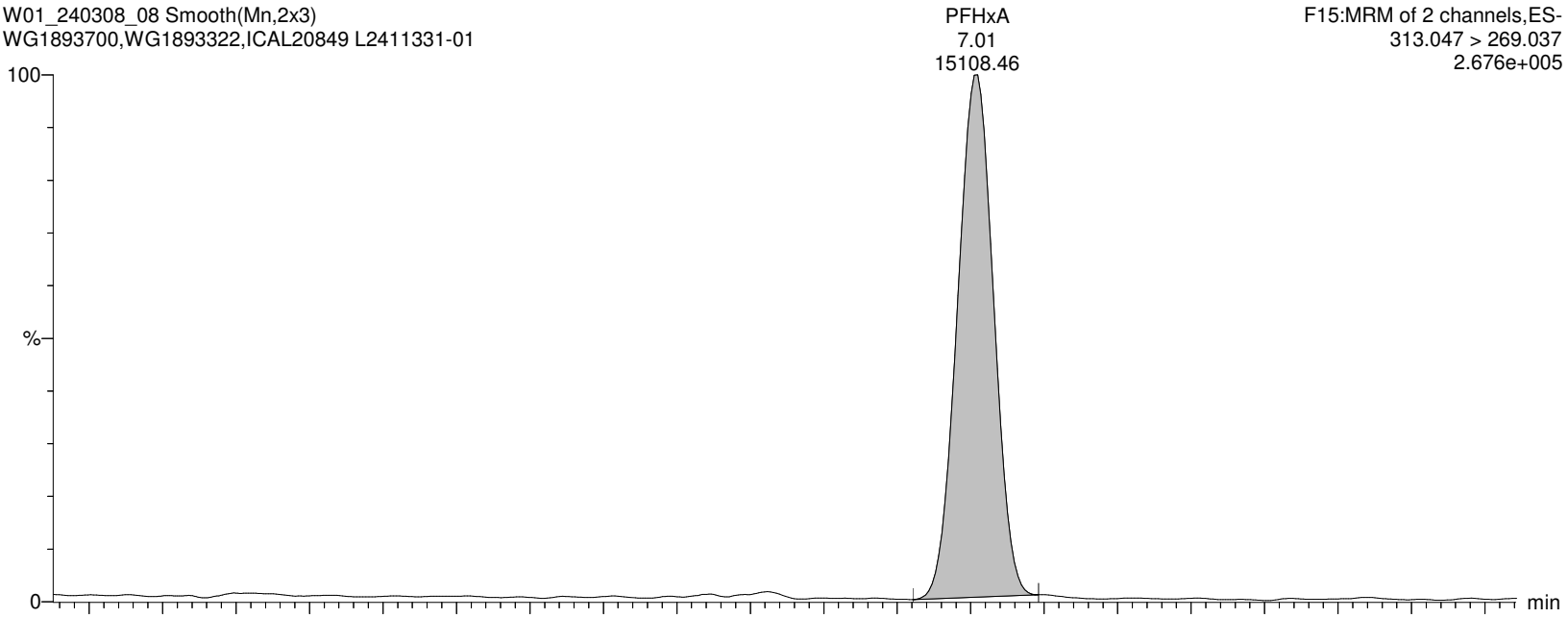

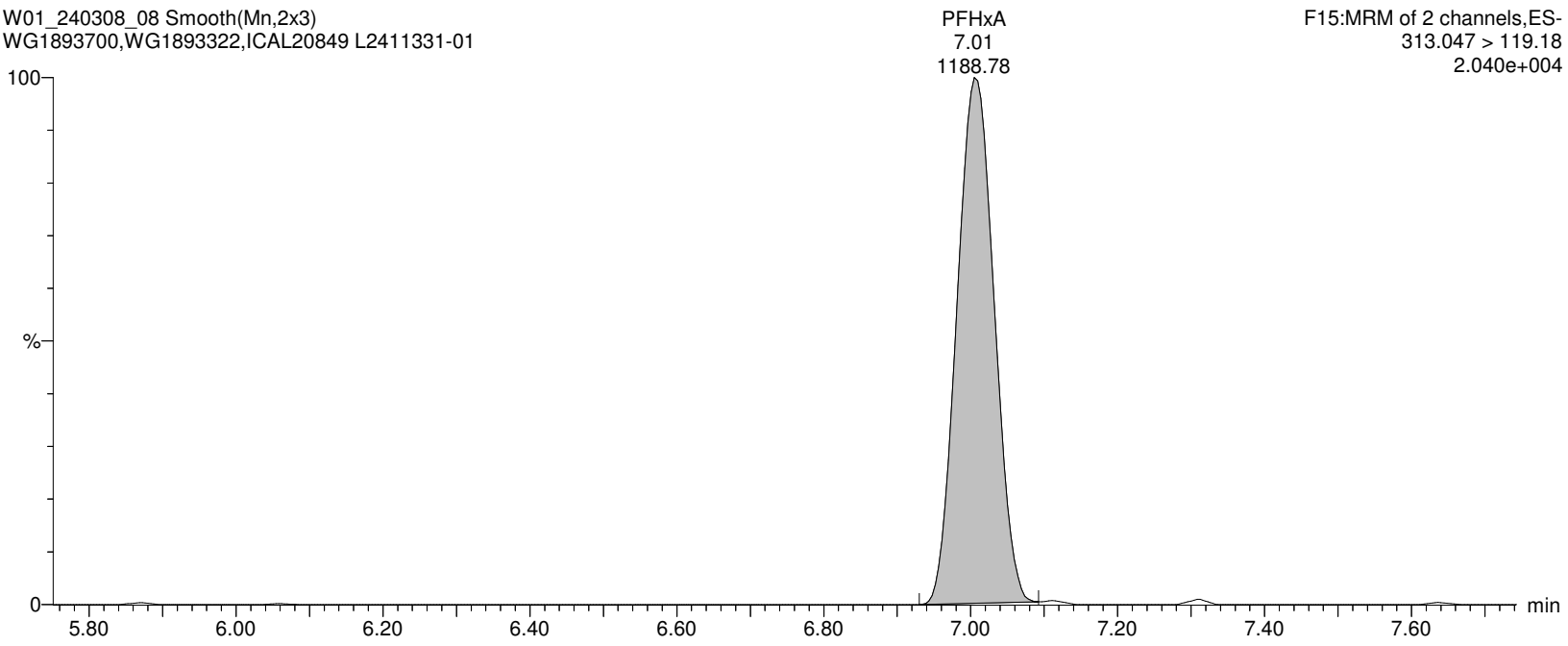

all concentration units in (ng/mL)

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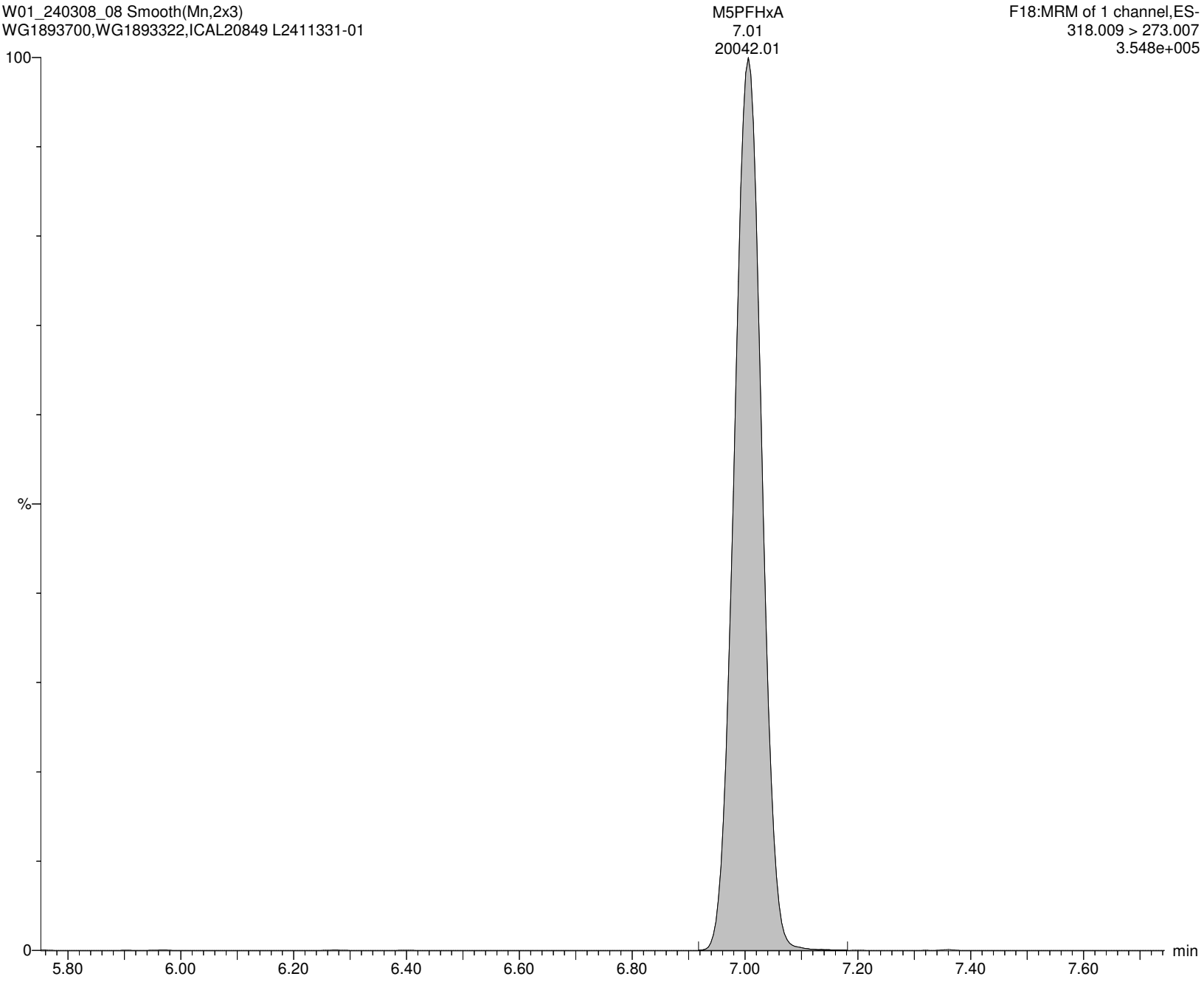

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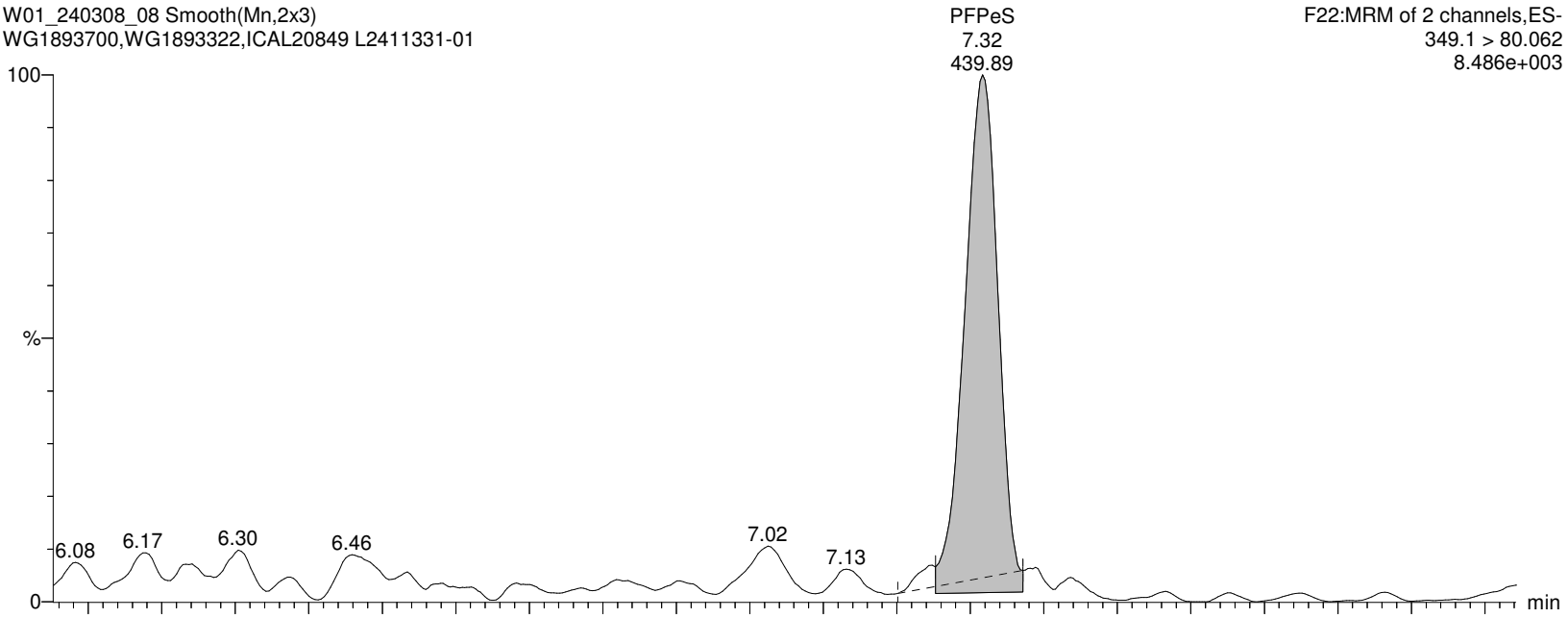

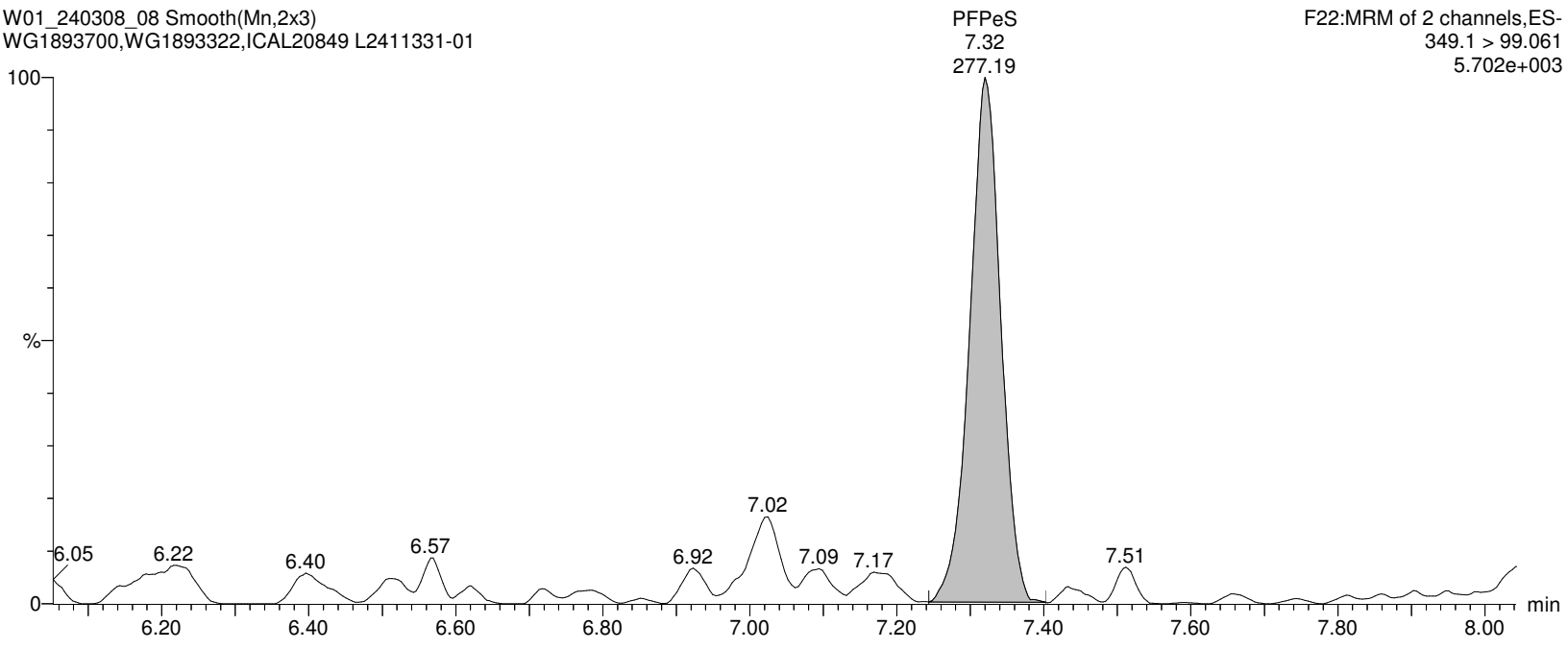

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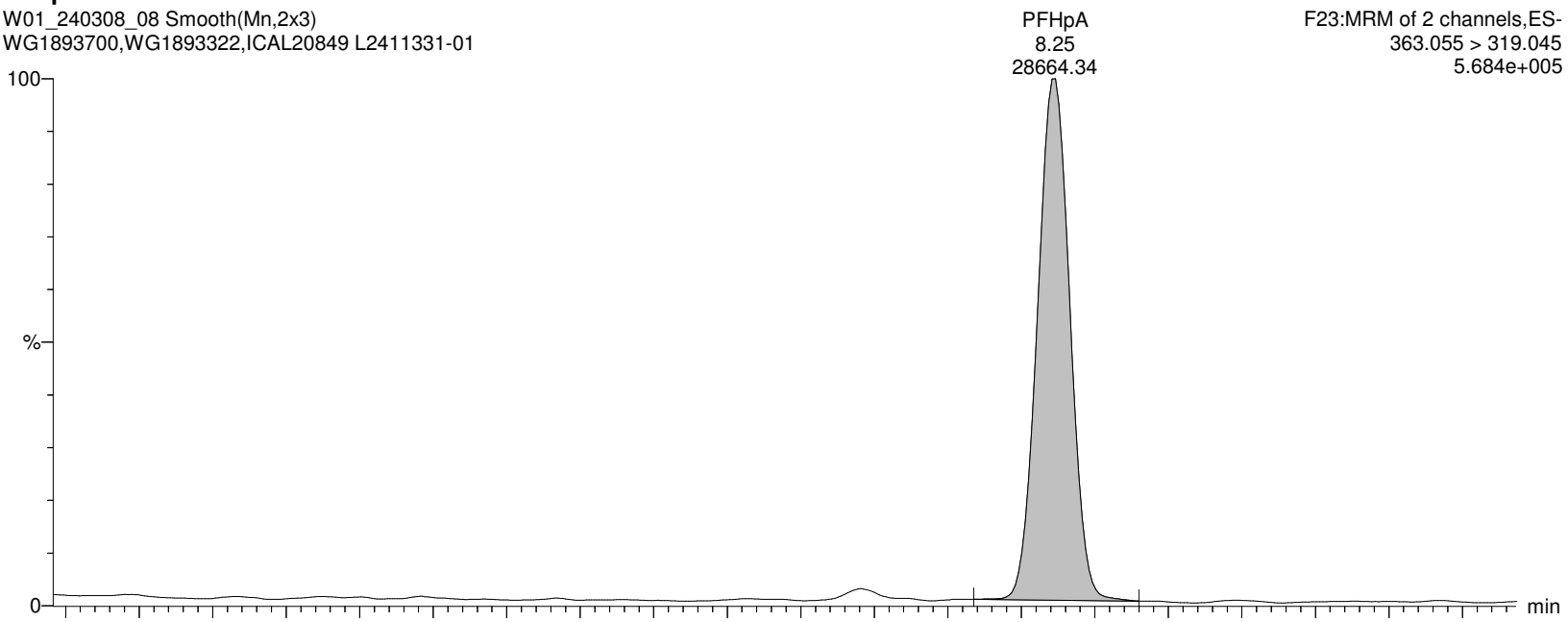

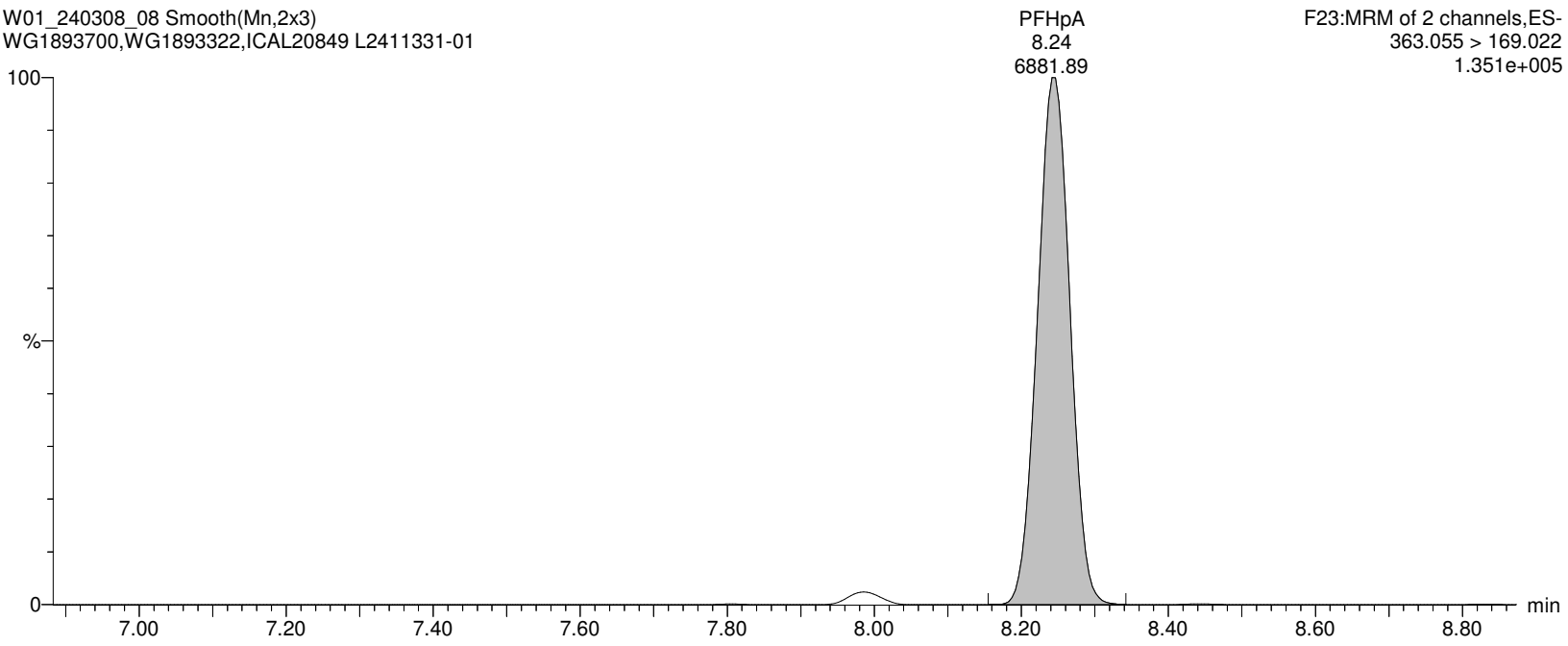

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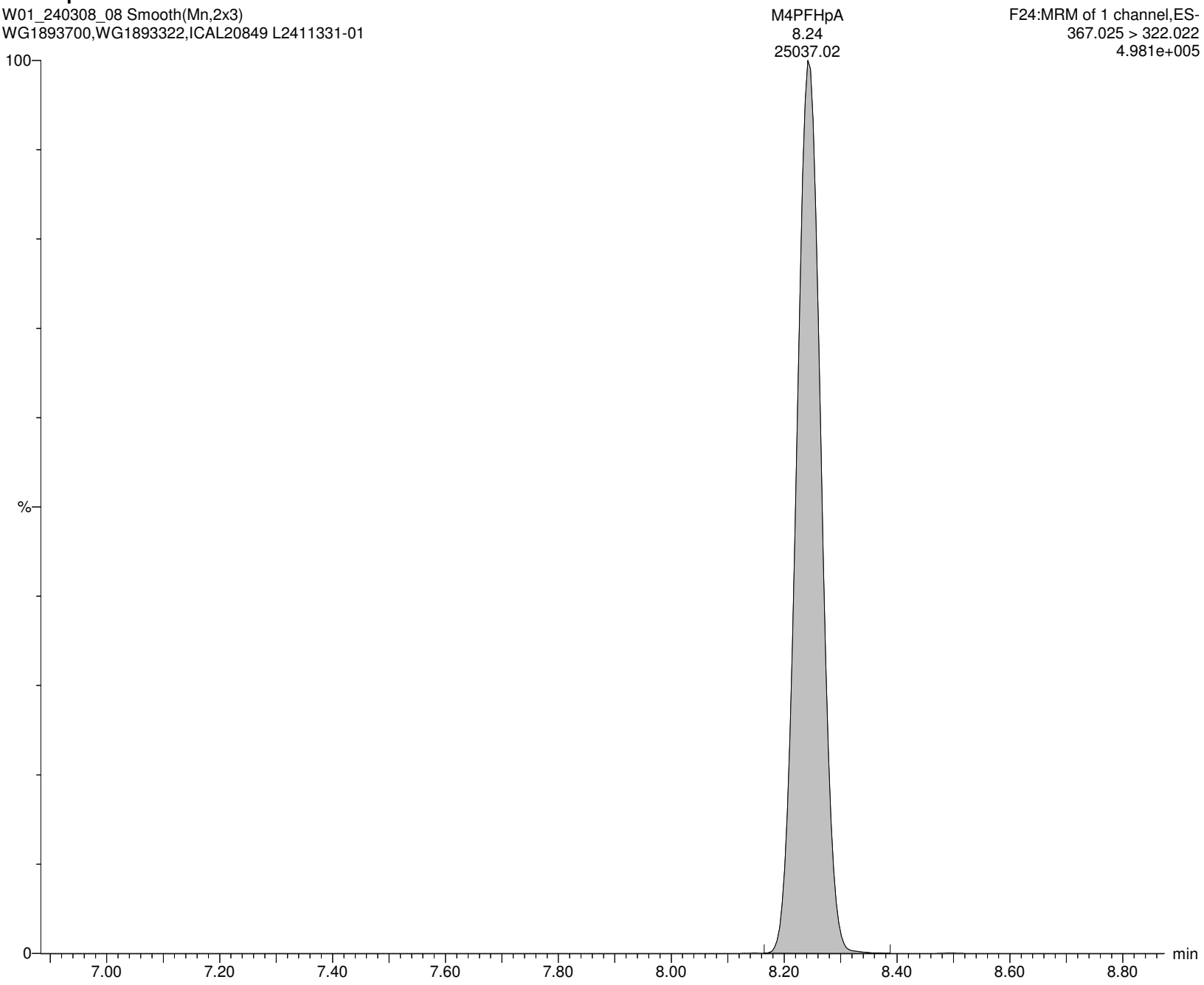

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

Name: W01_240308_08
ID: L2411331-01
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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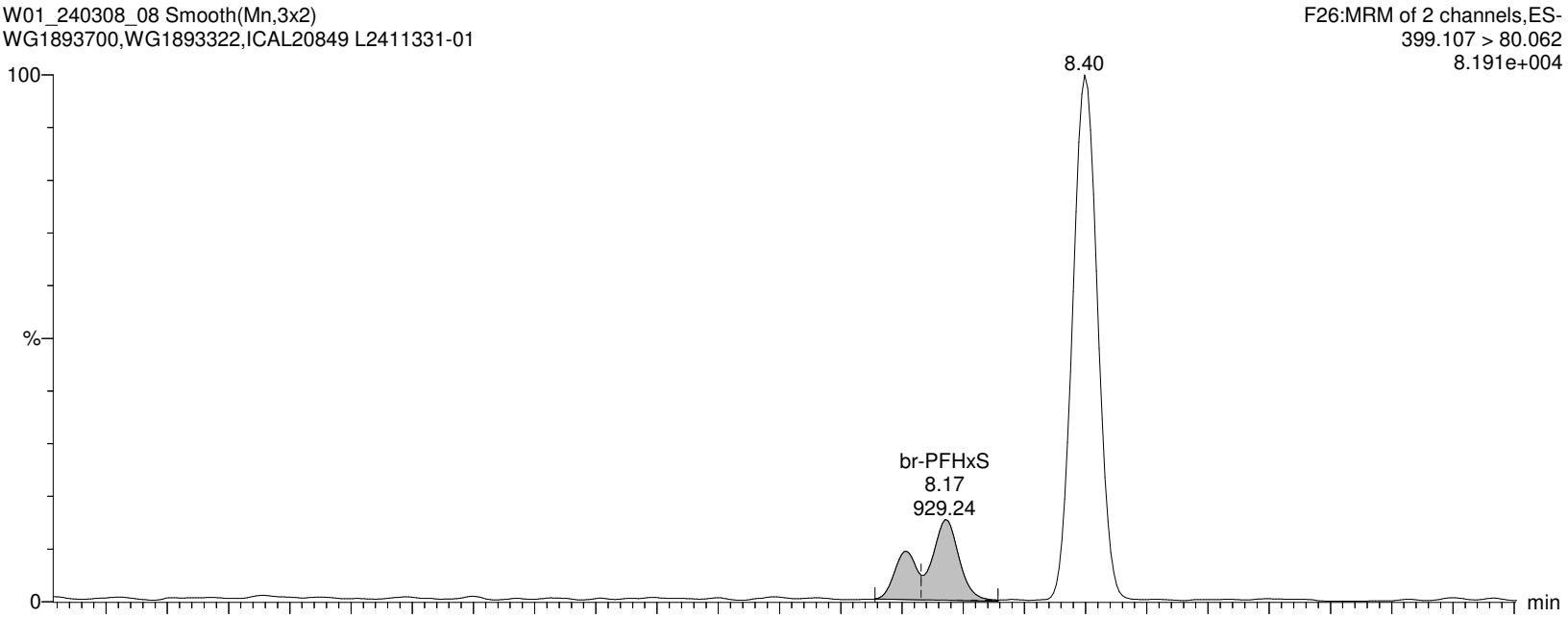

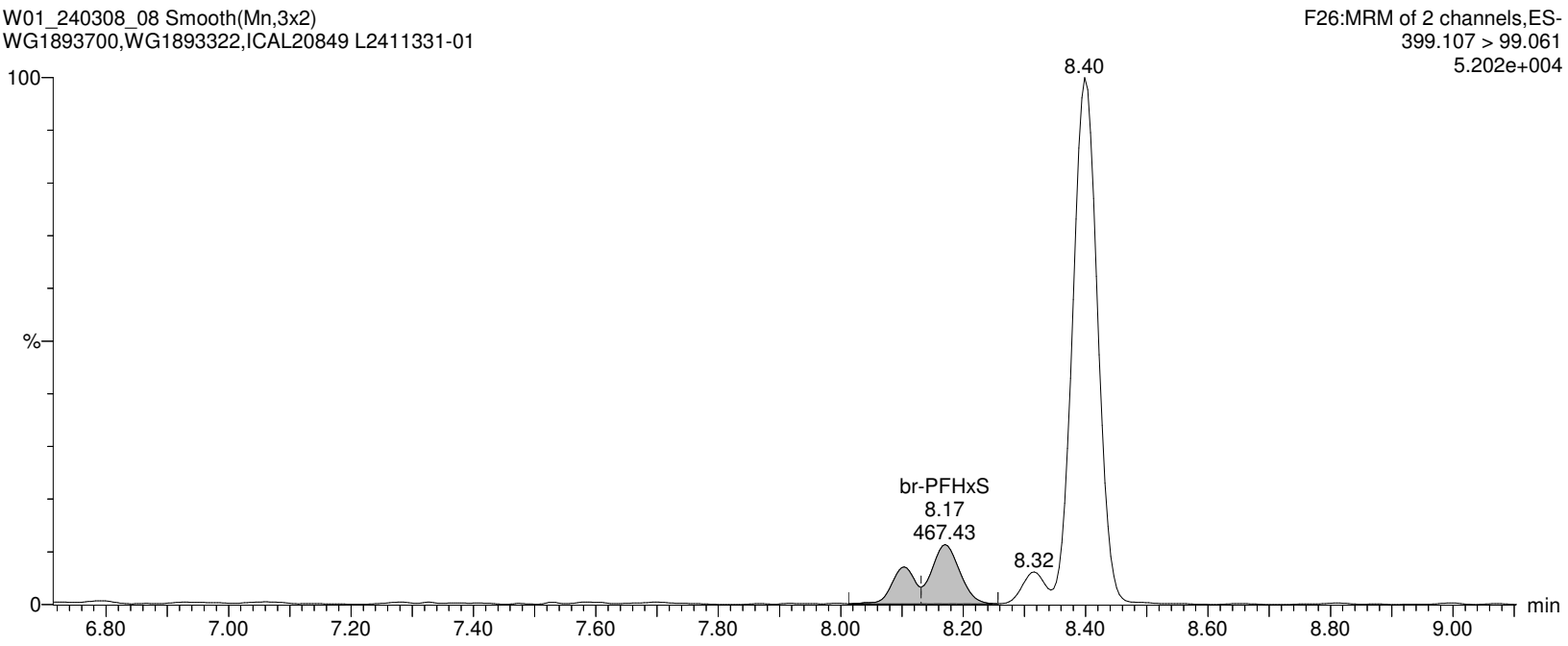

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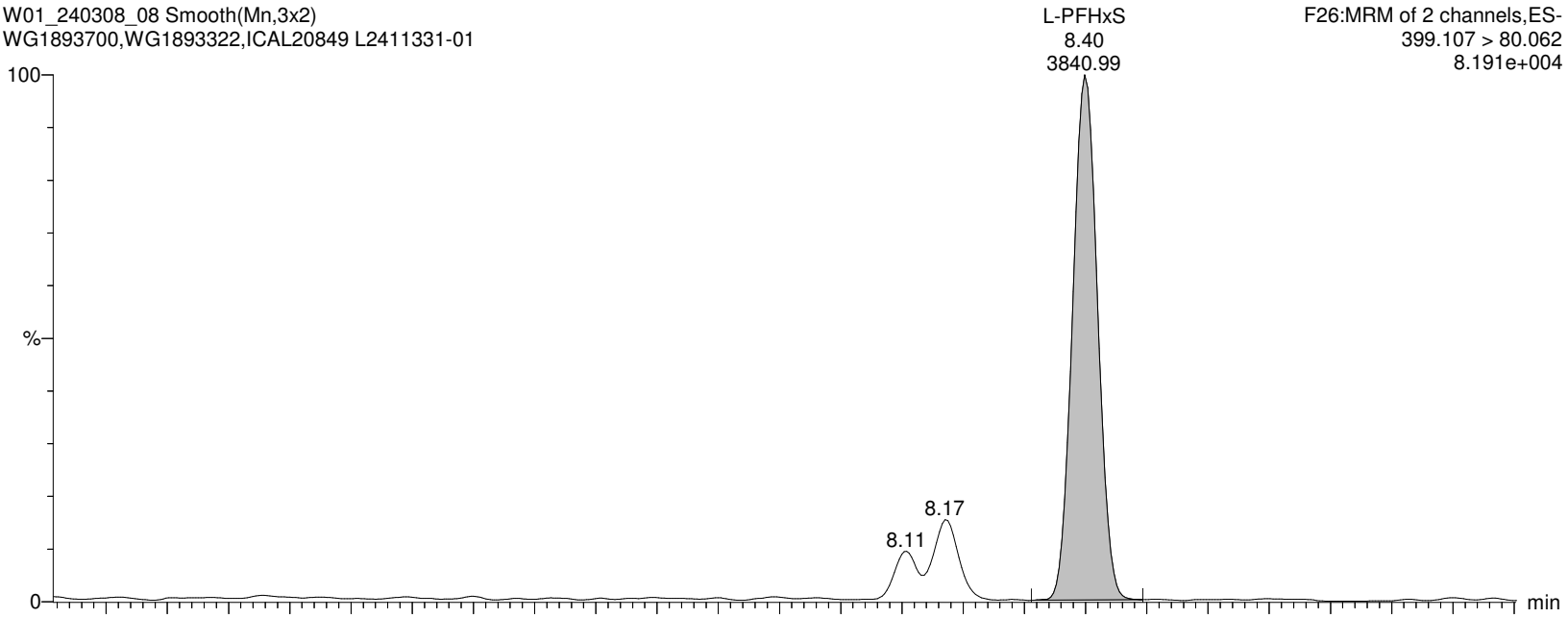

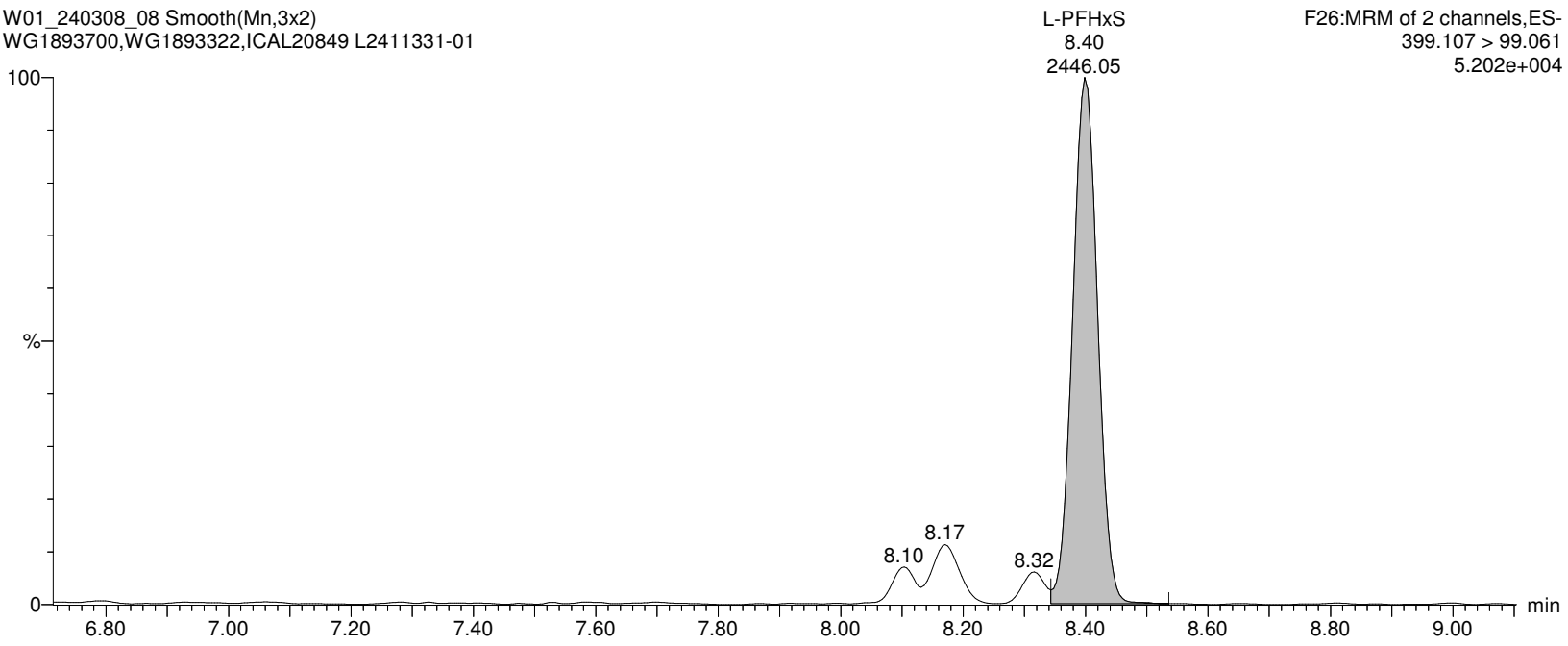

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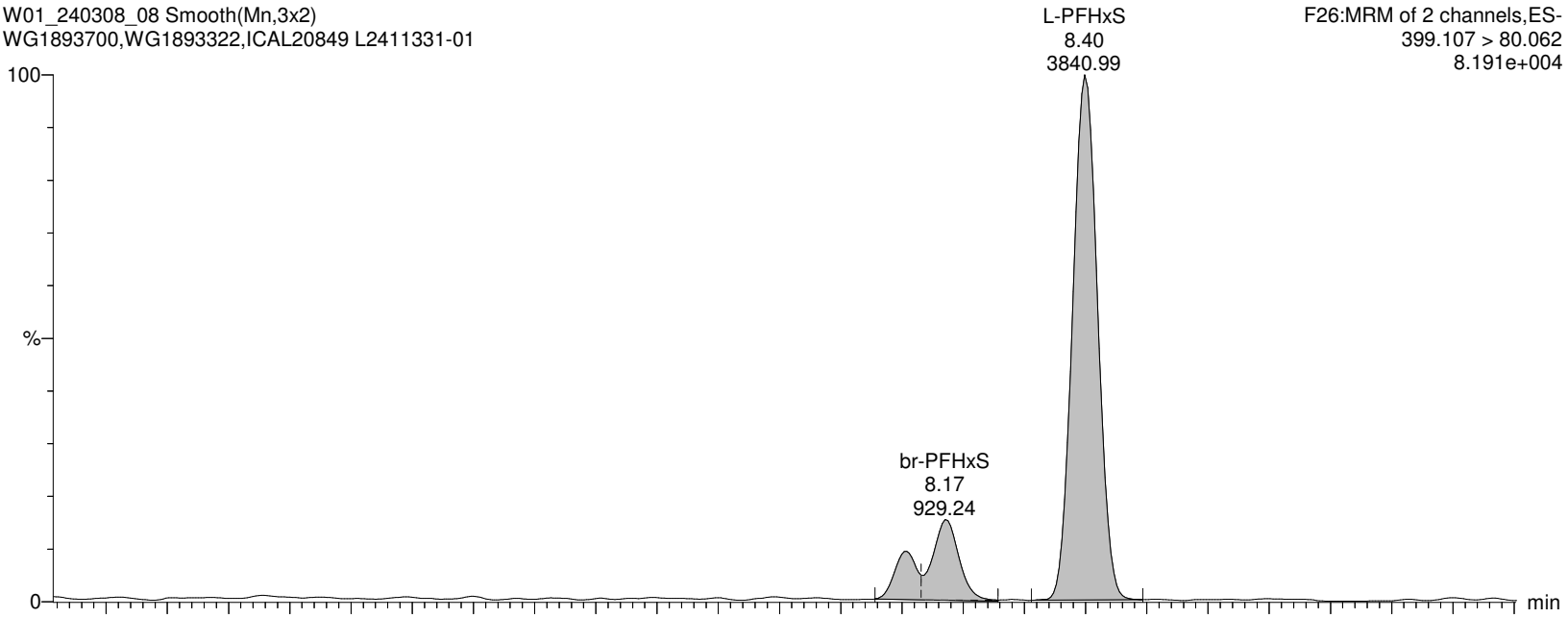

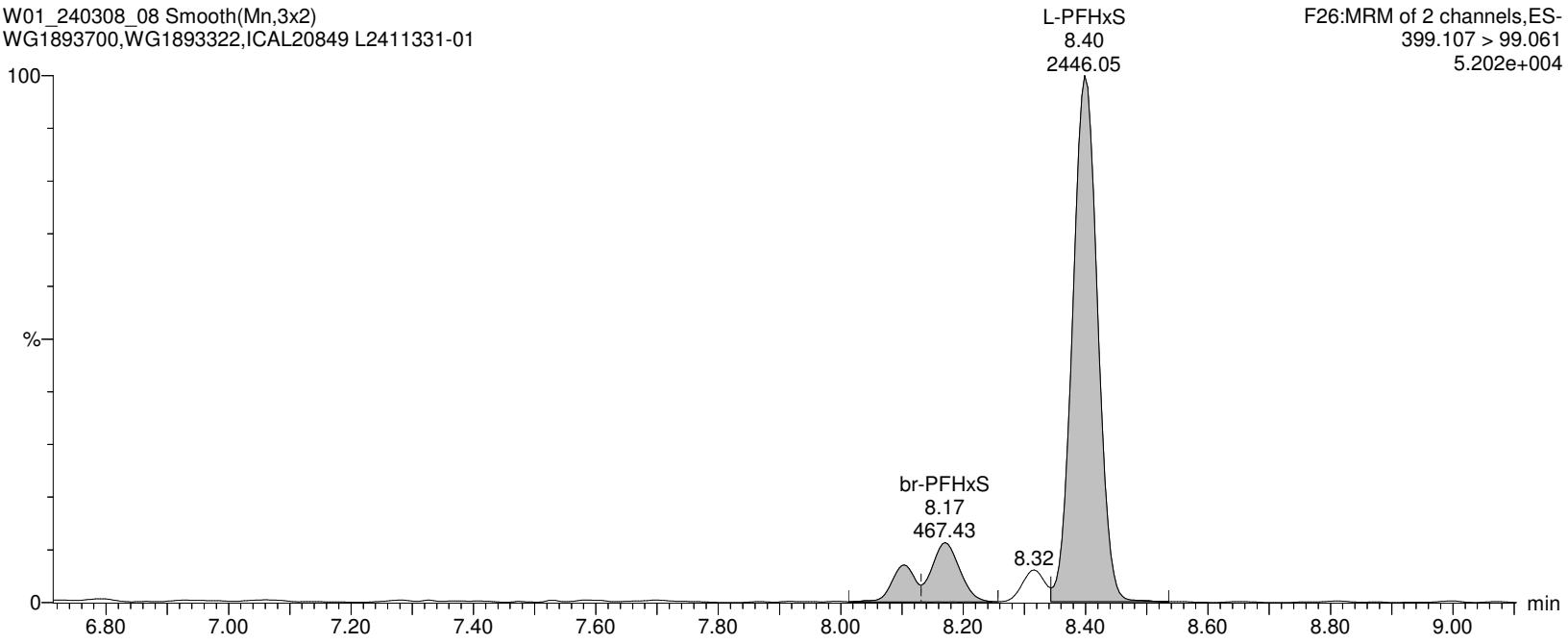

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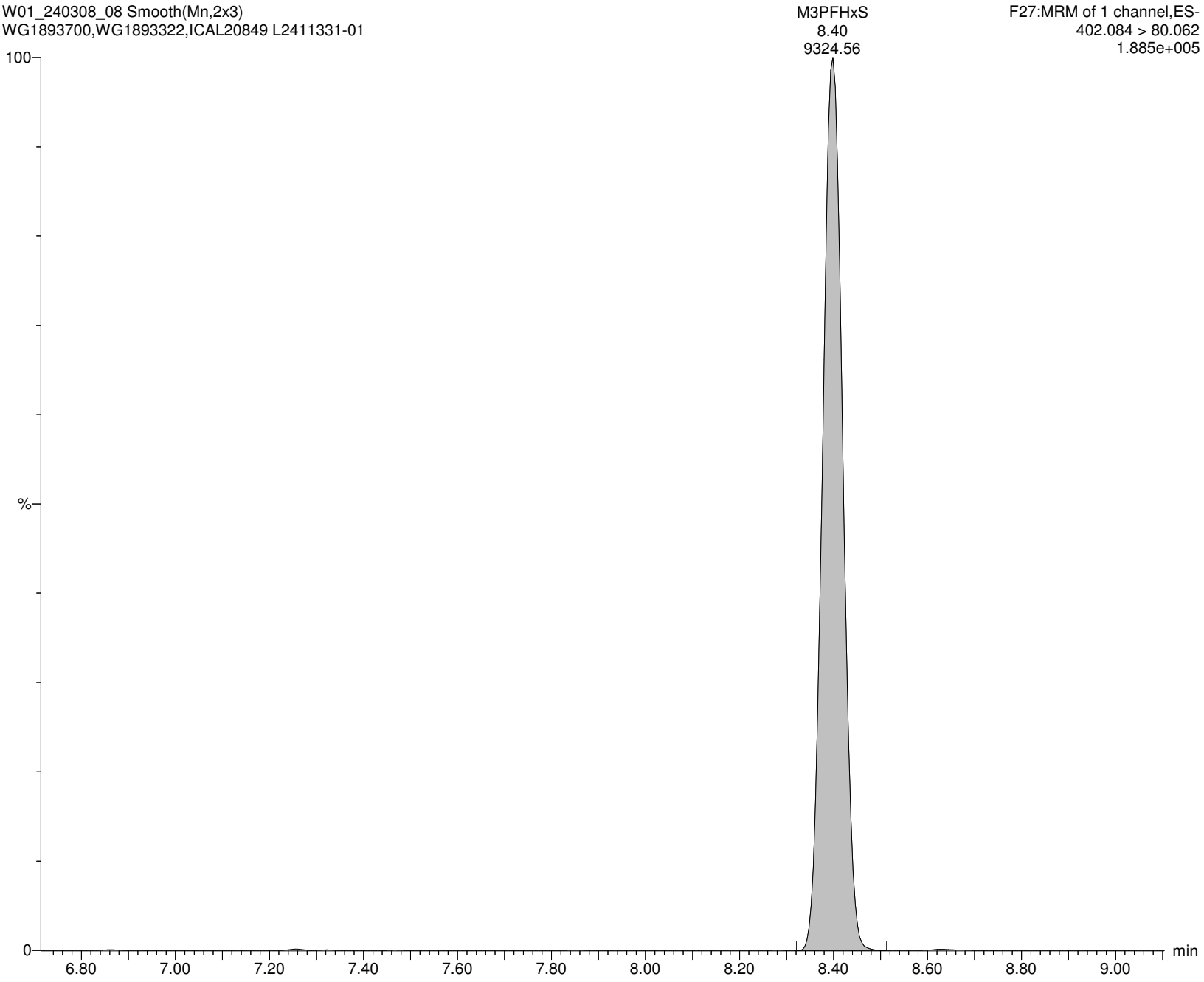

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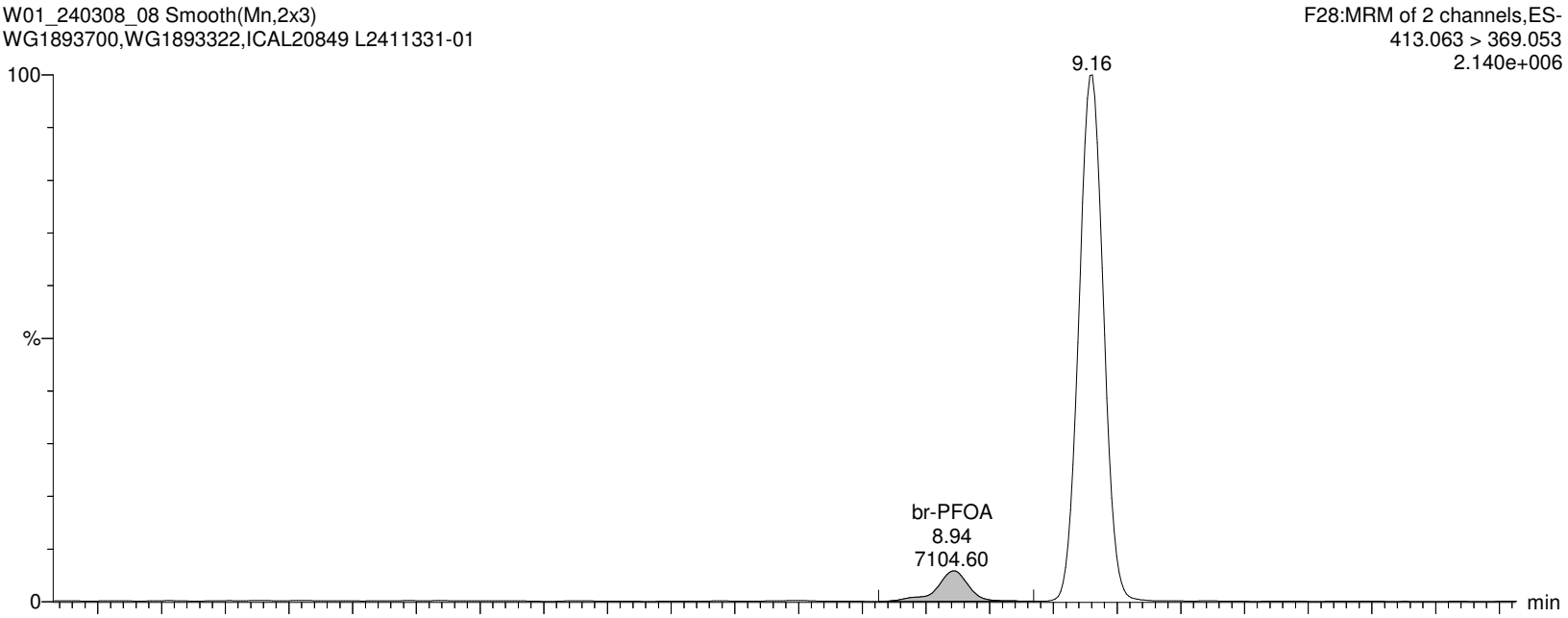

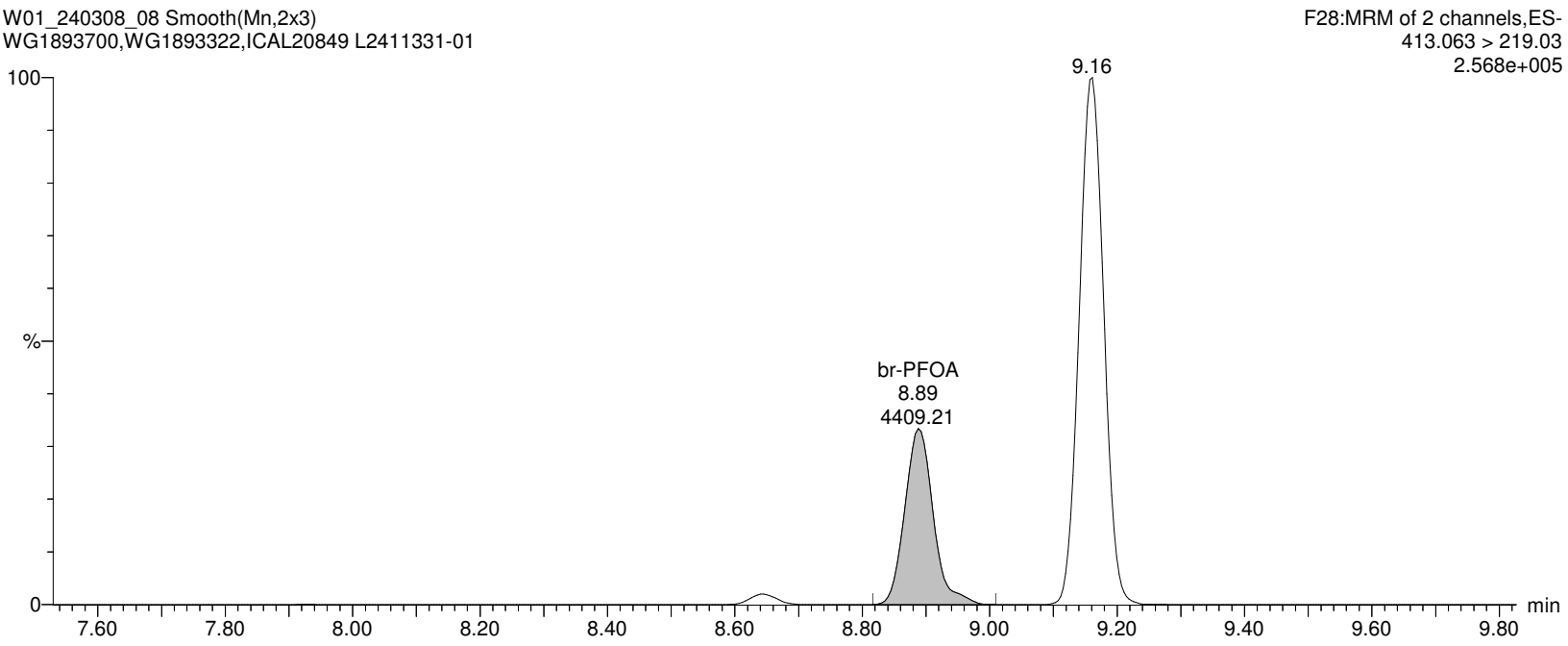

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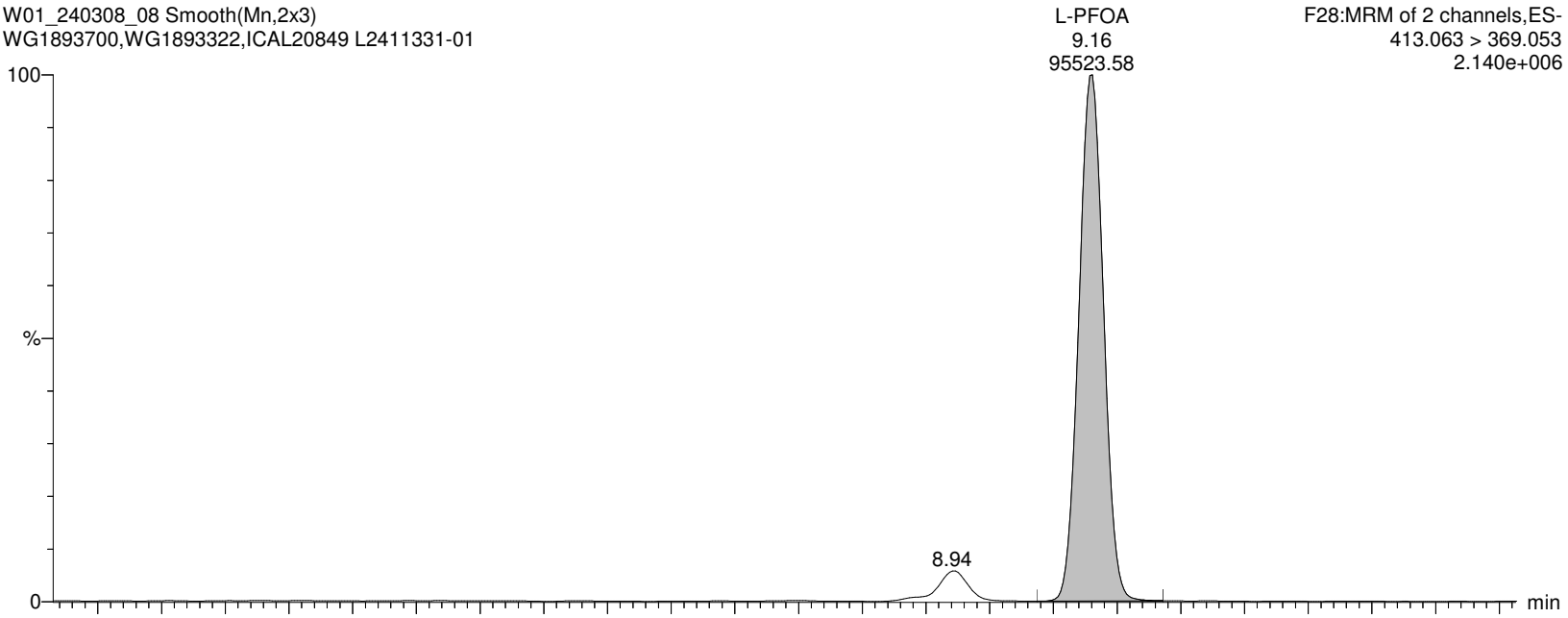

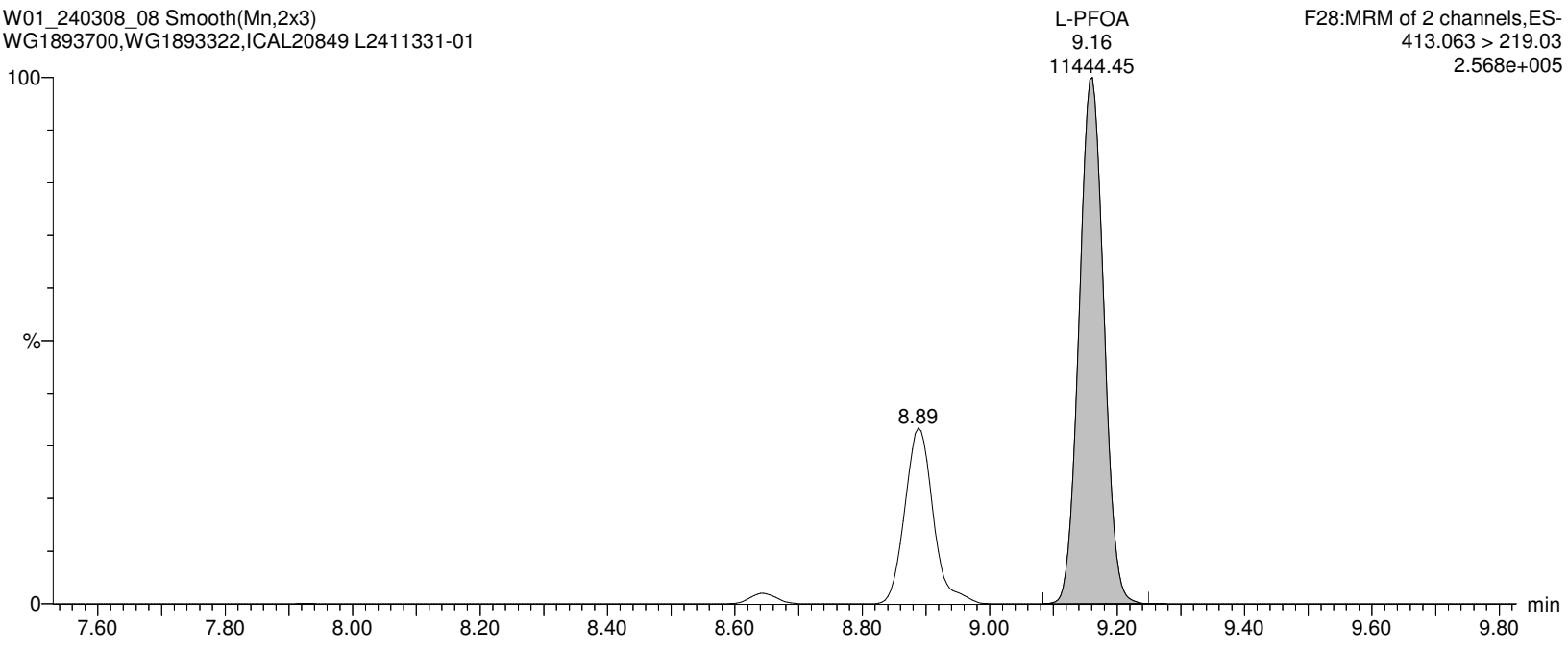

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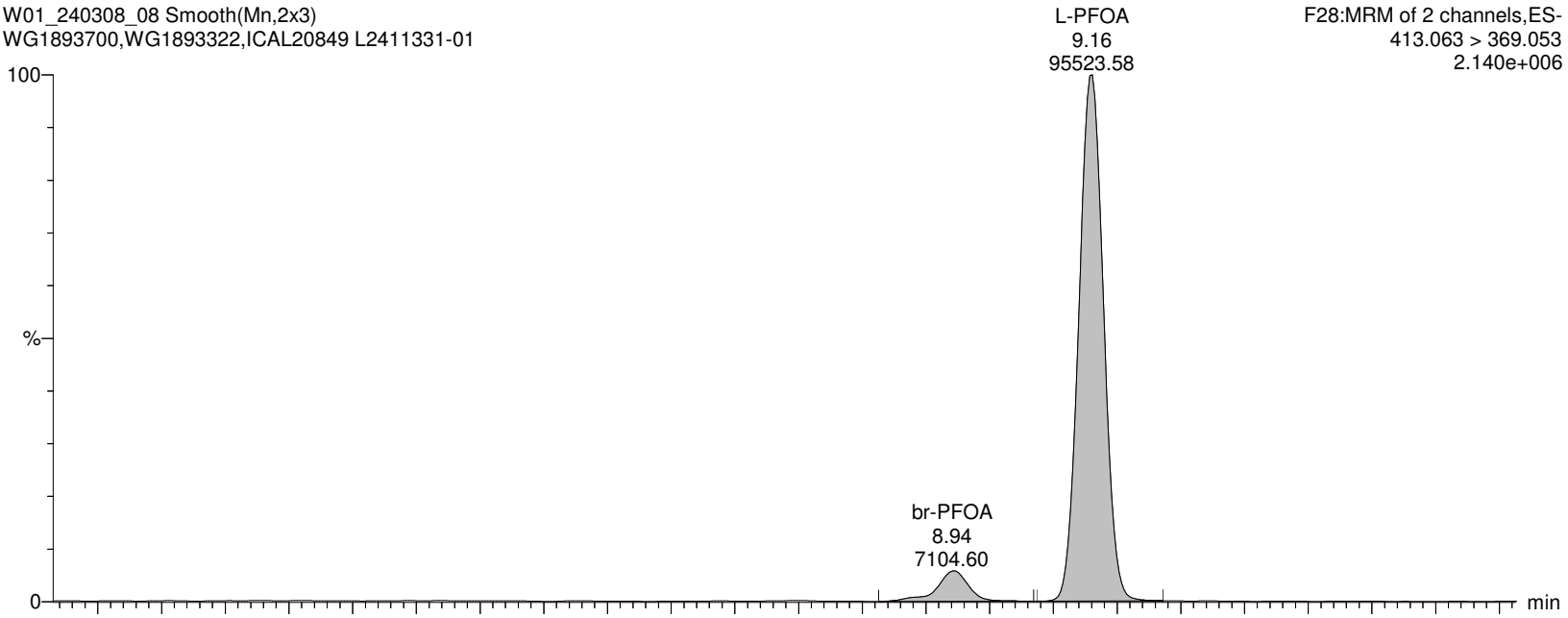

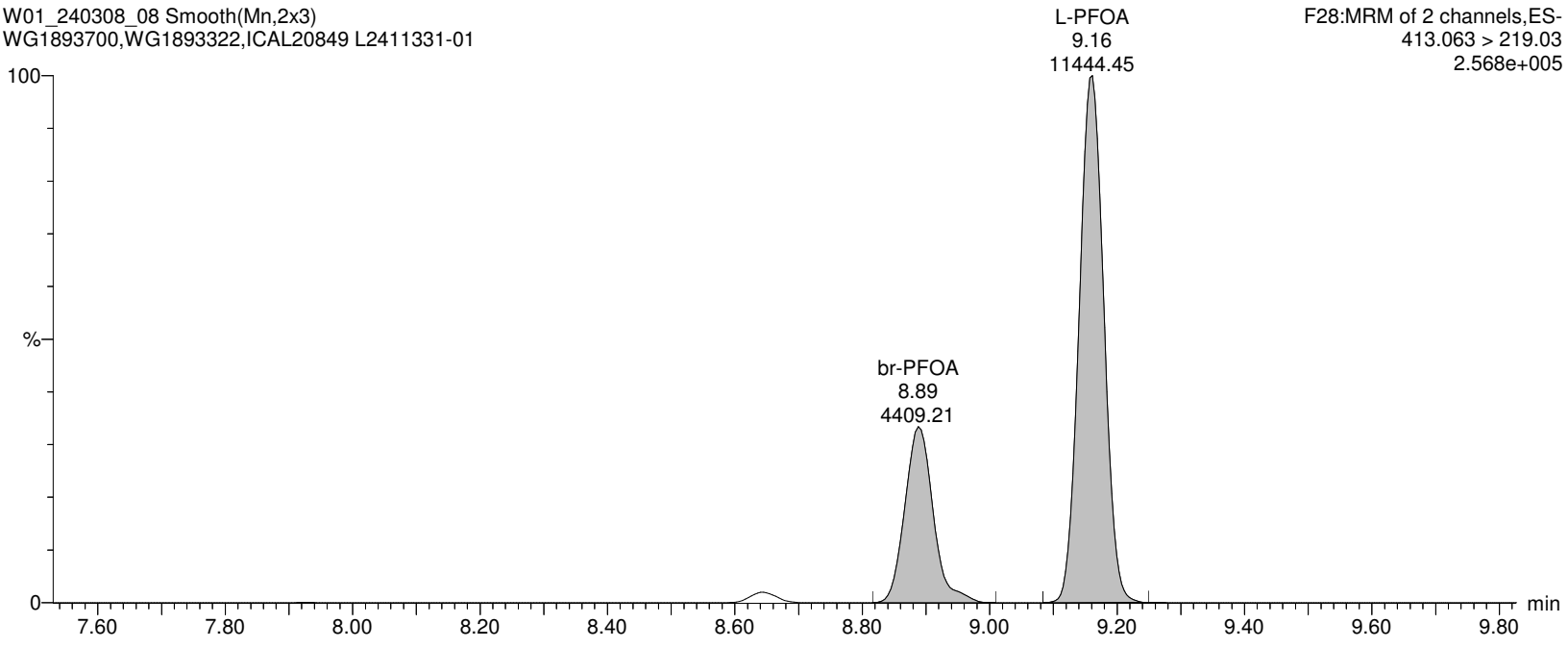

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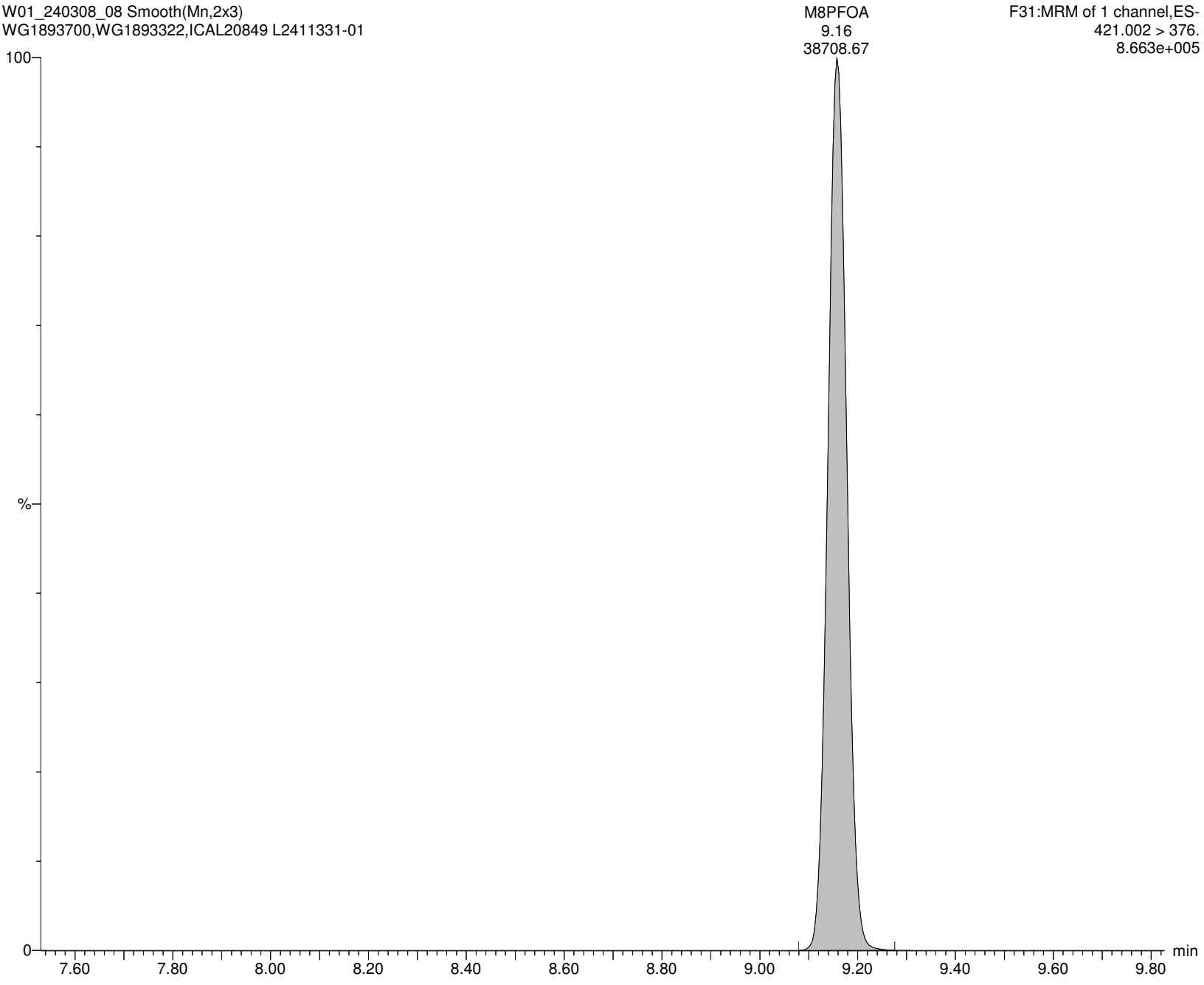

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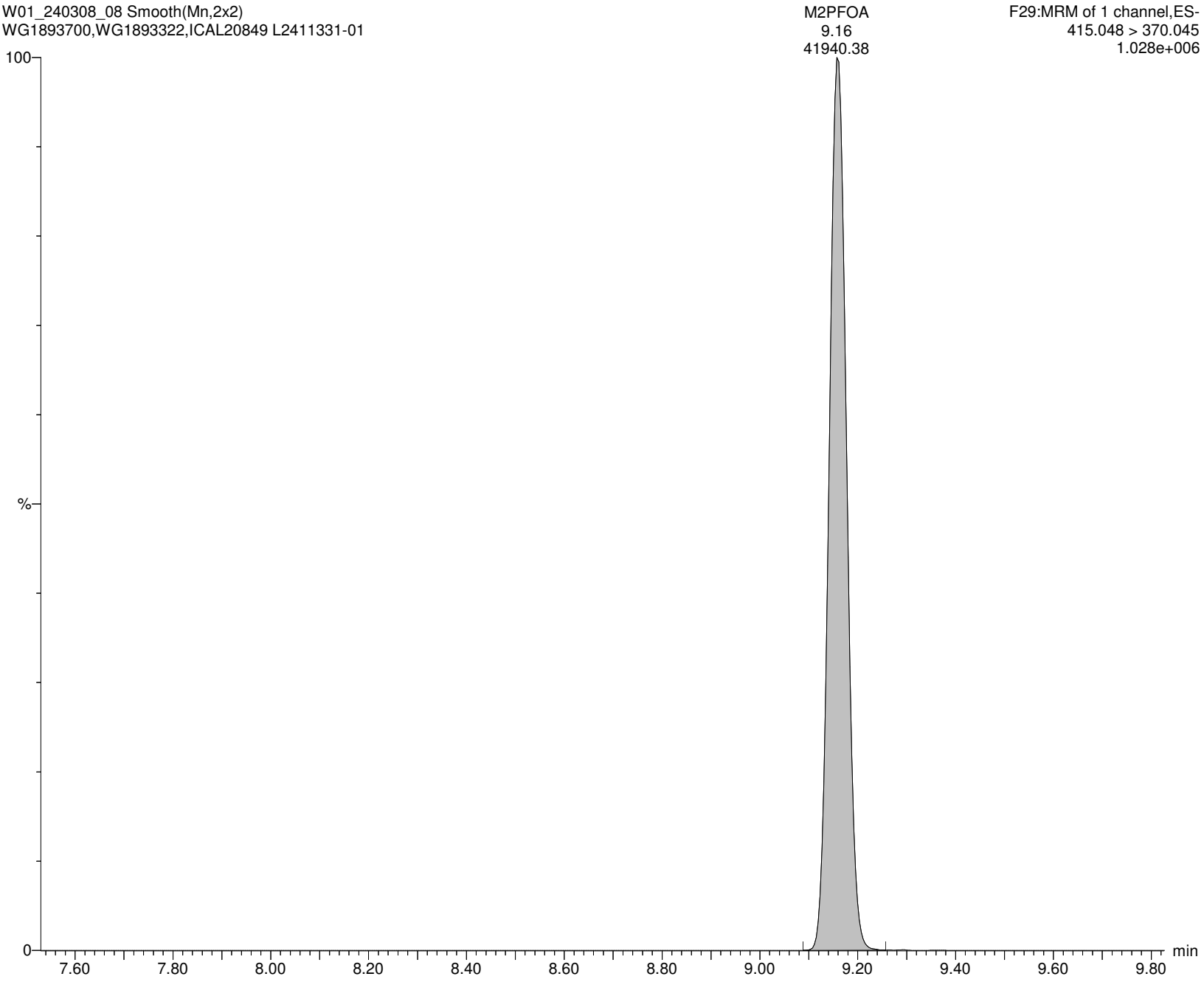

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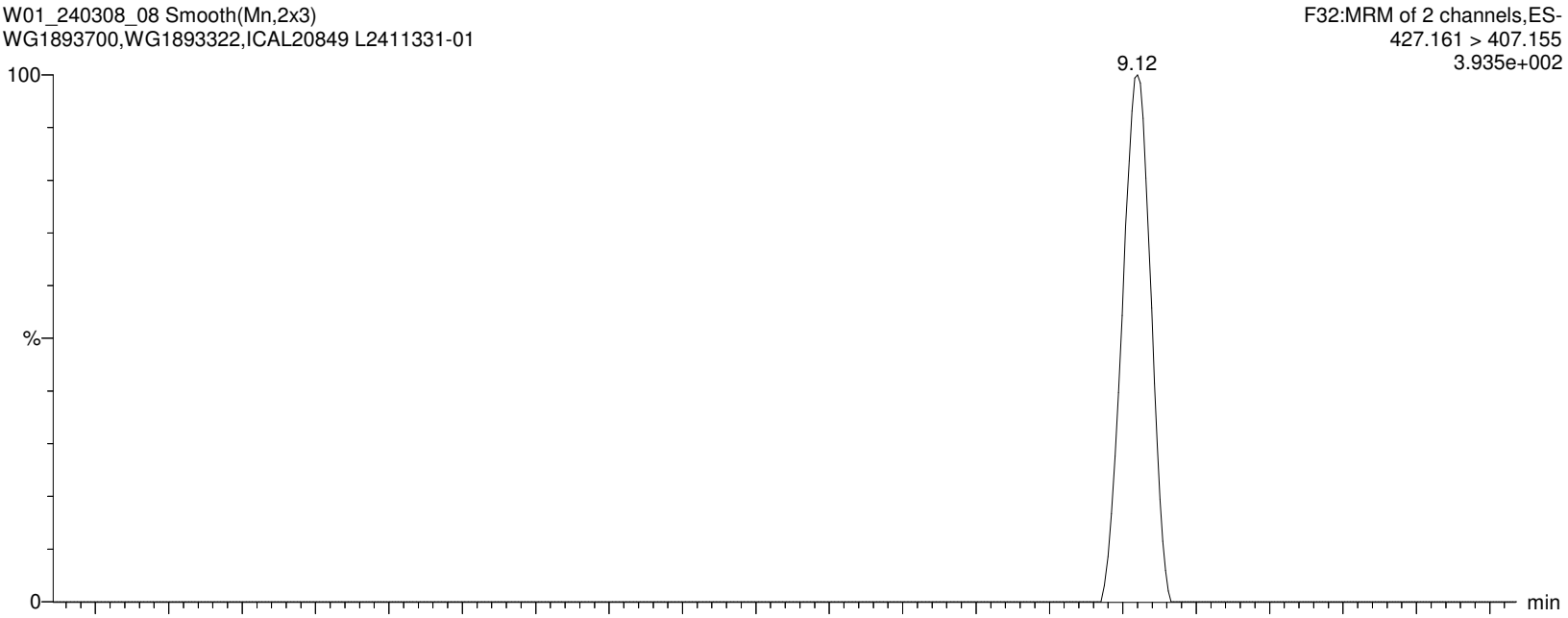

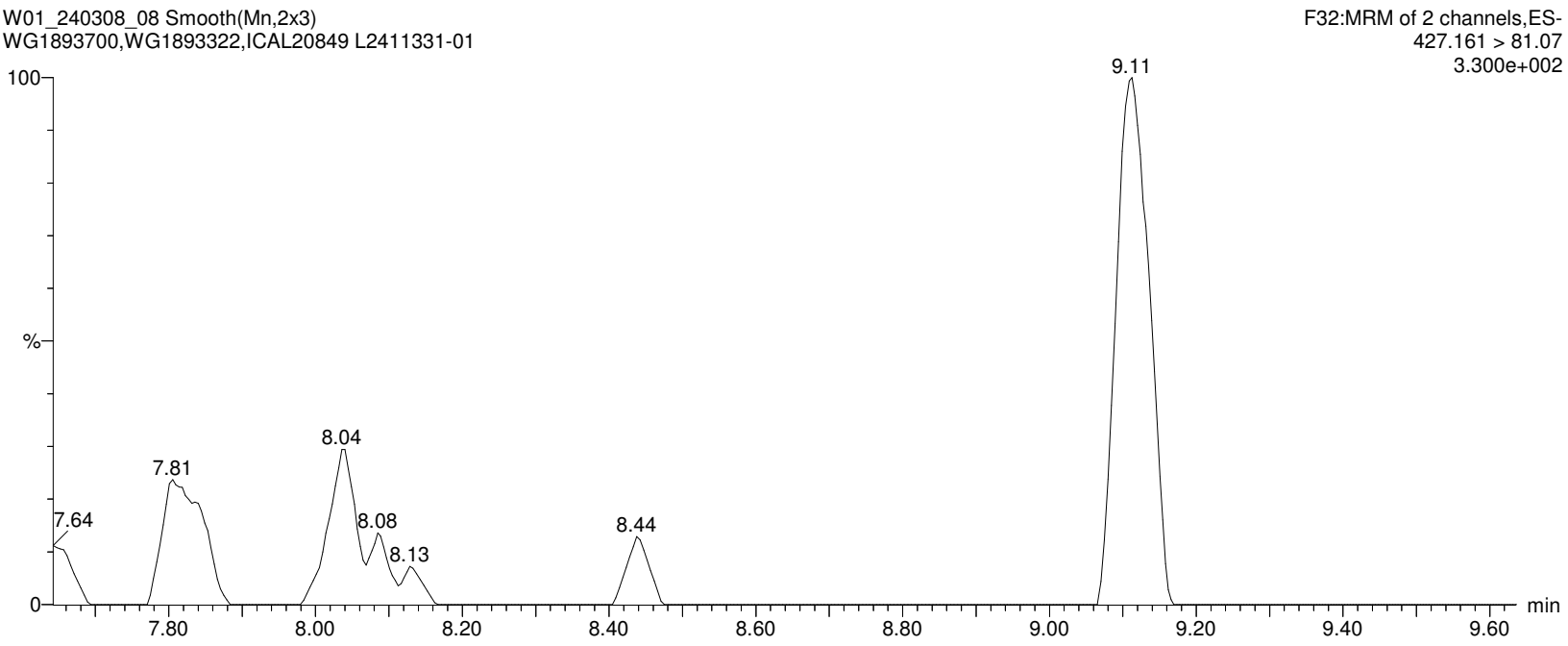

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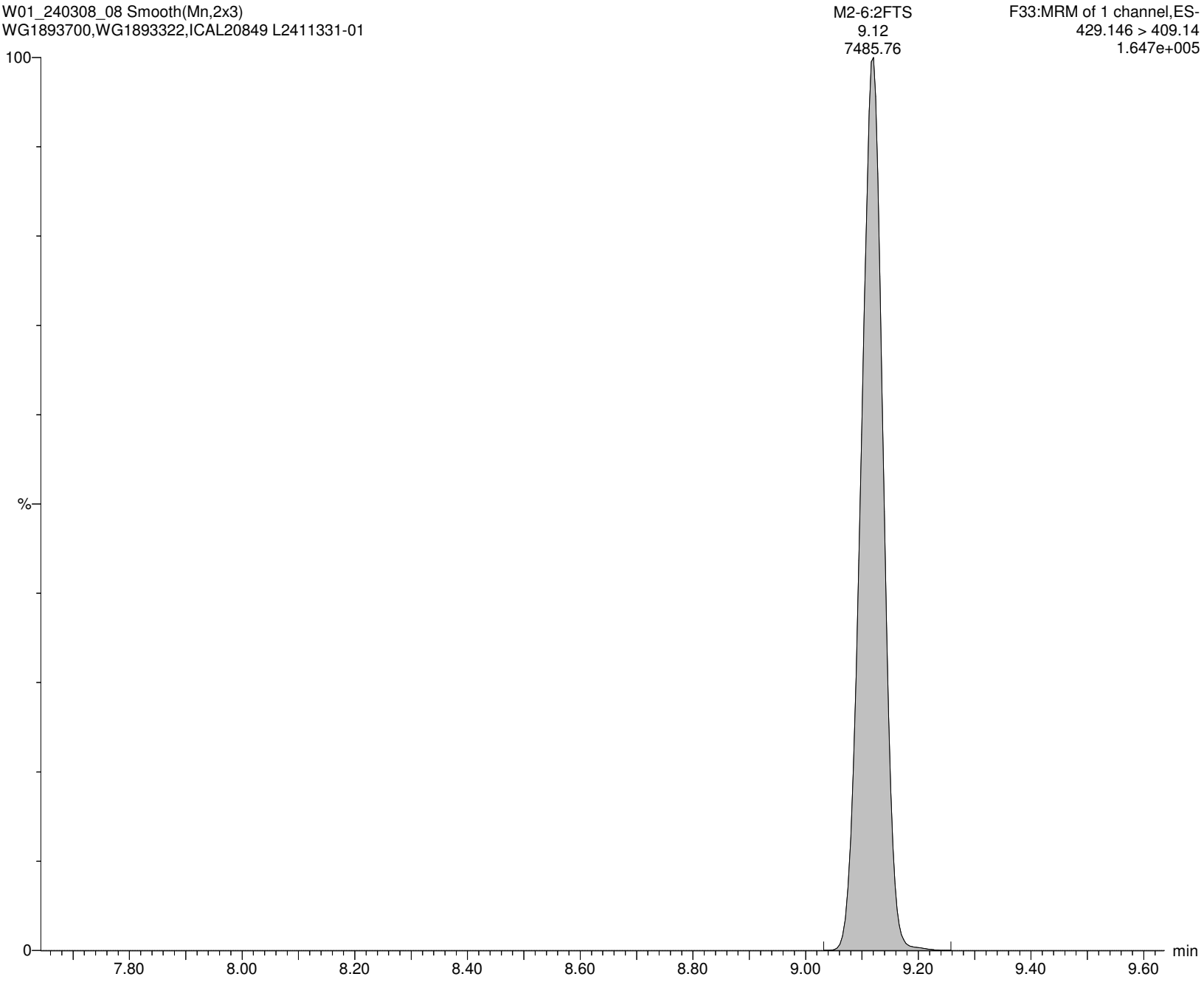

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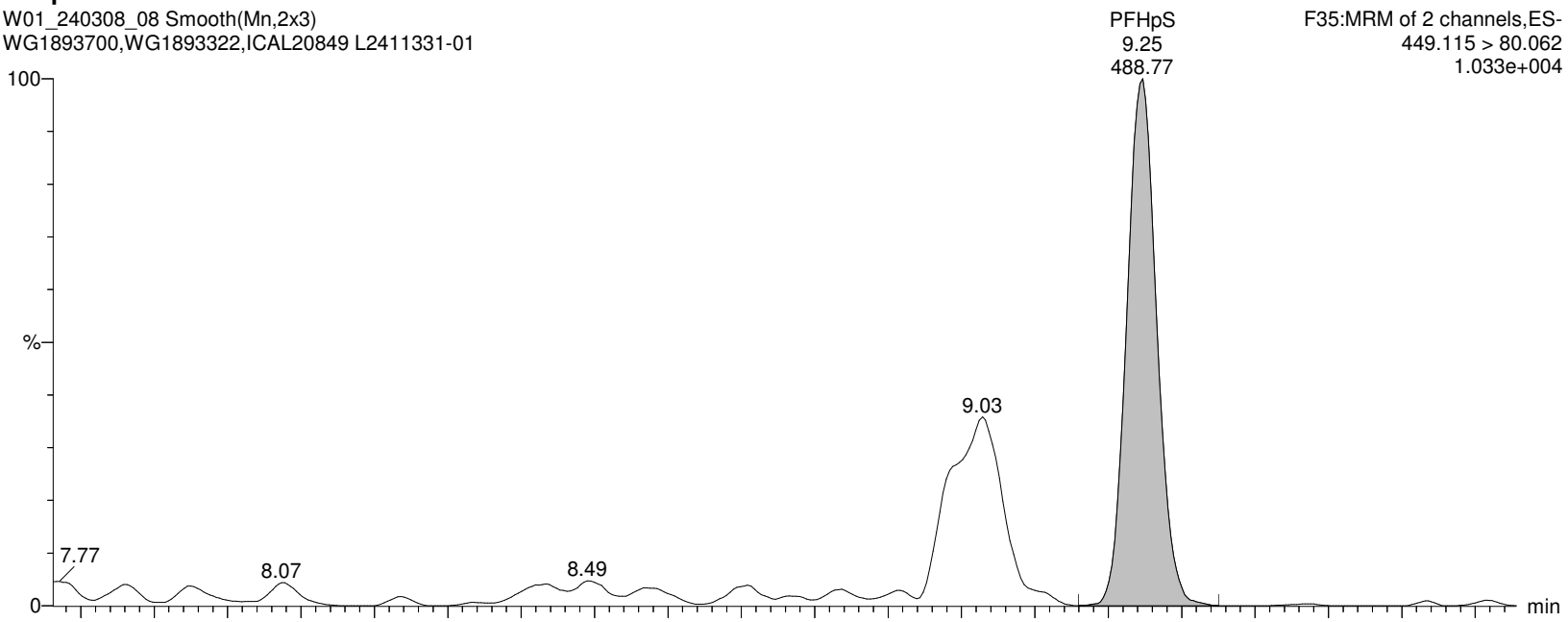

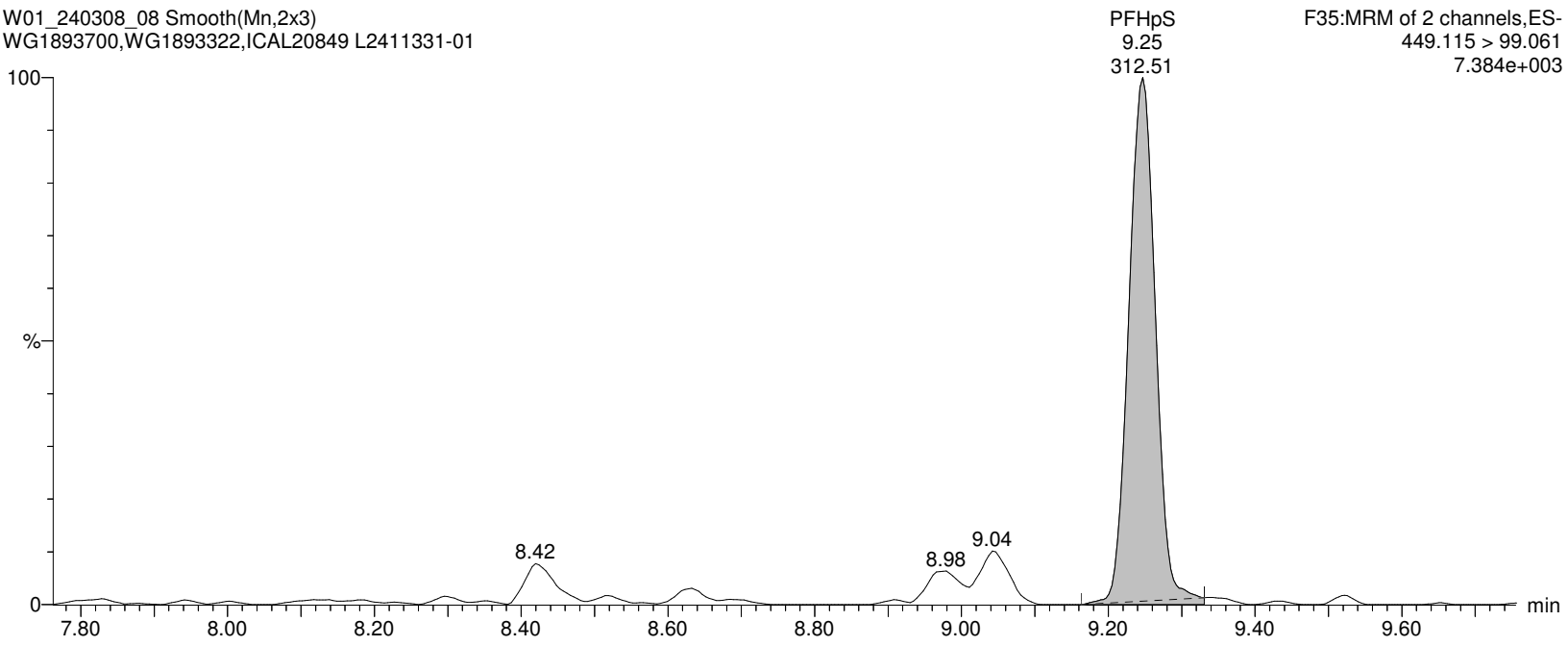

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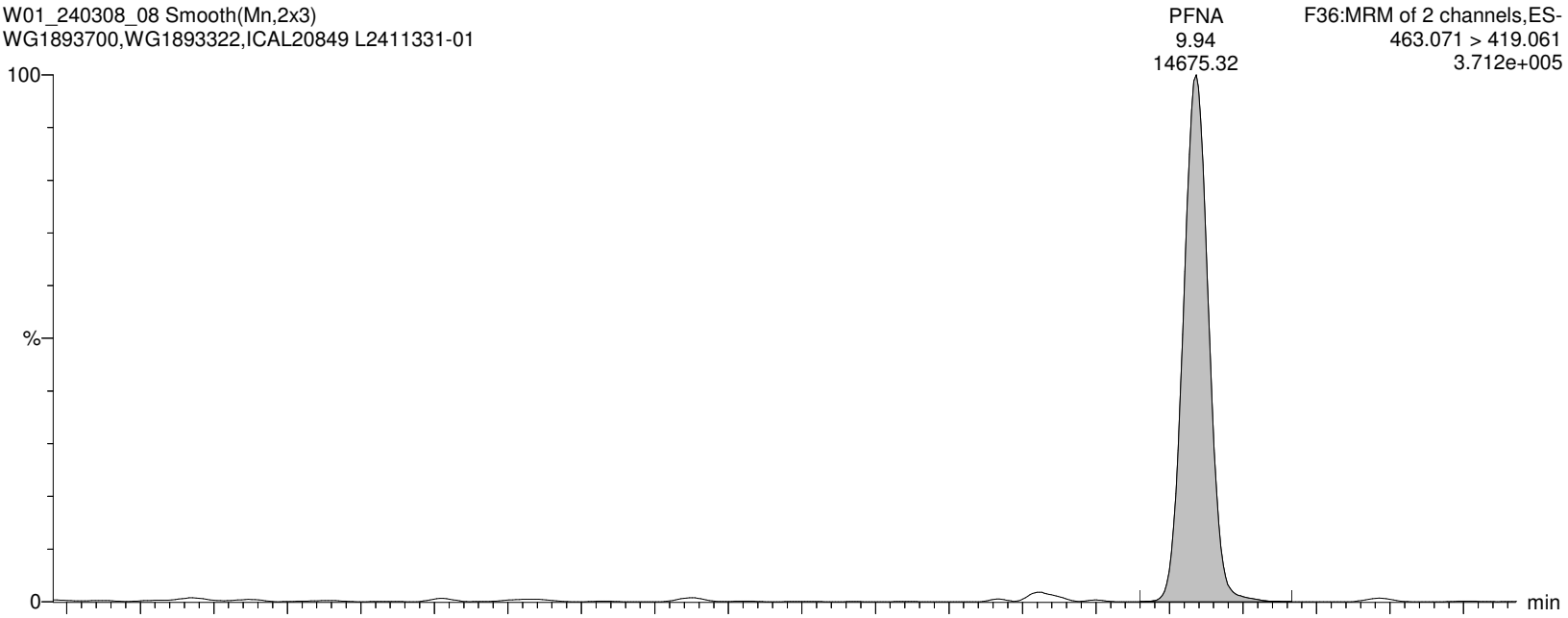

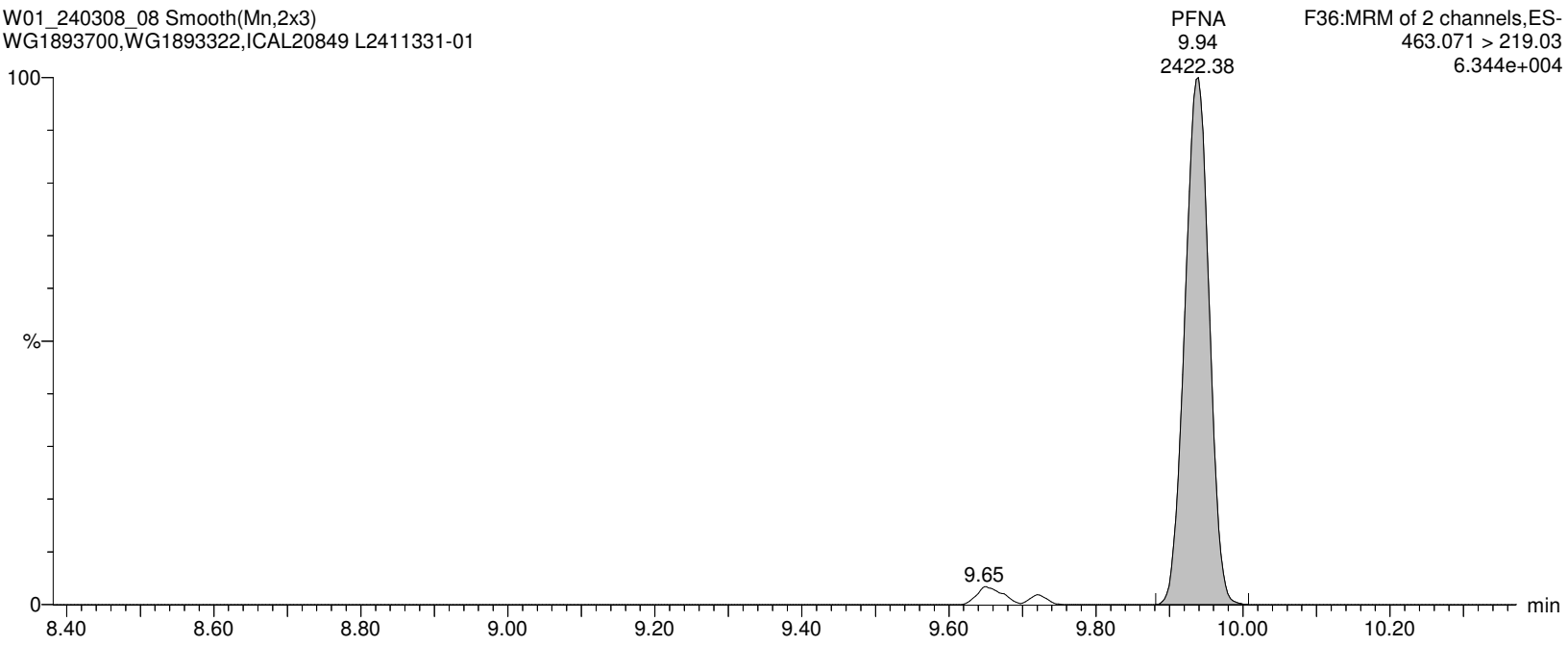

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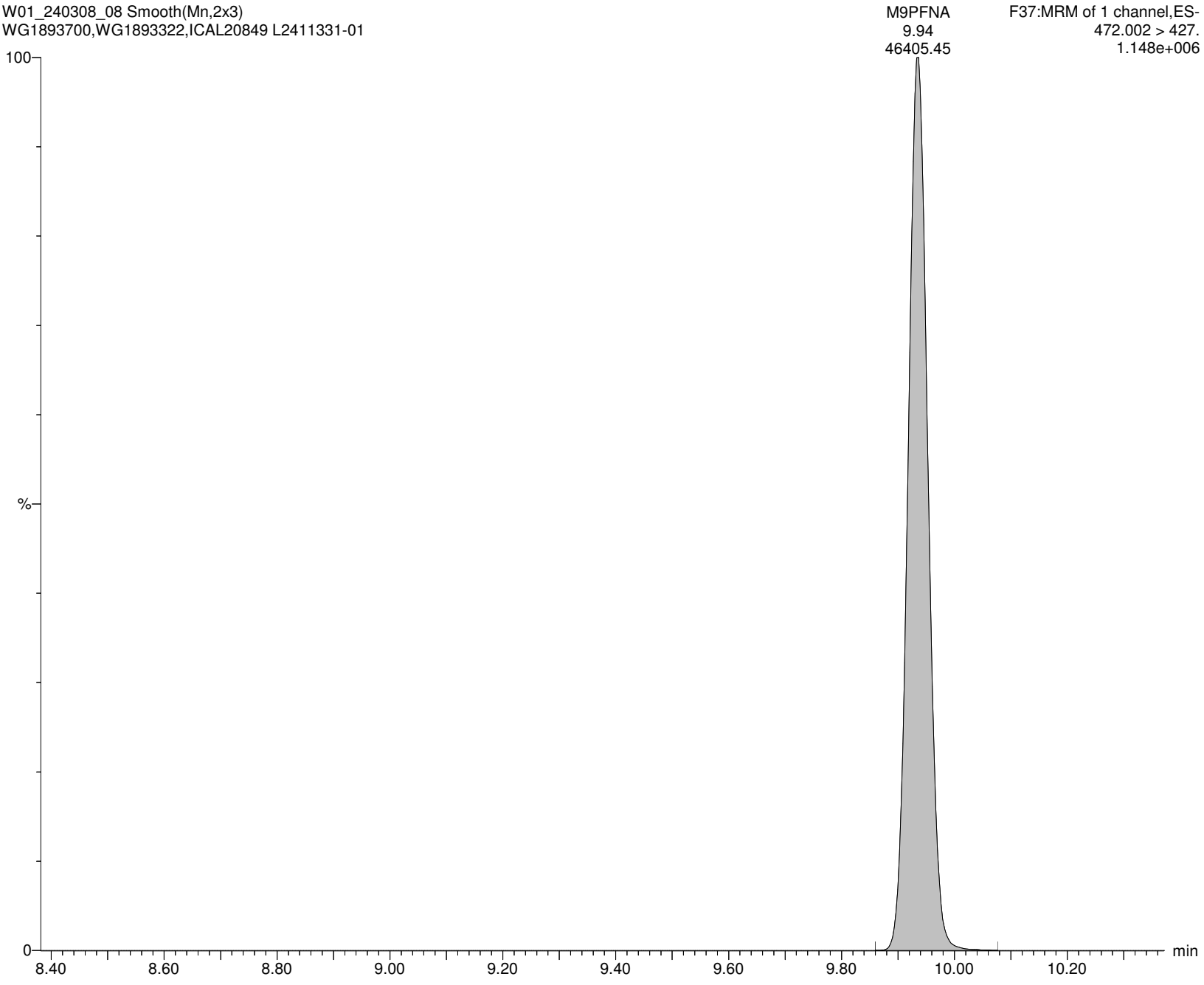

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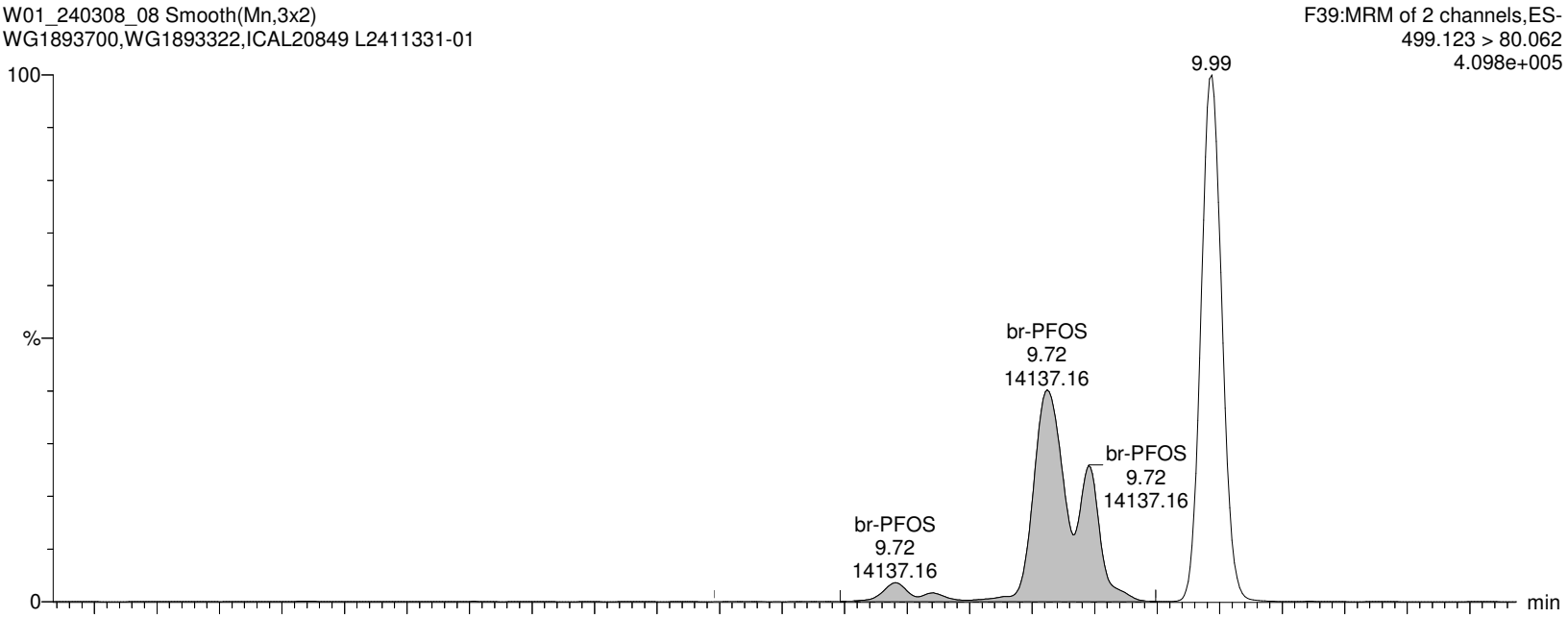

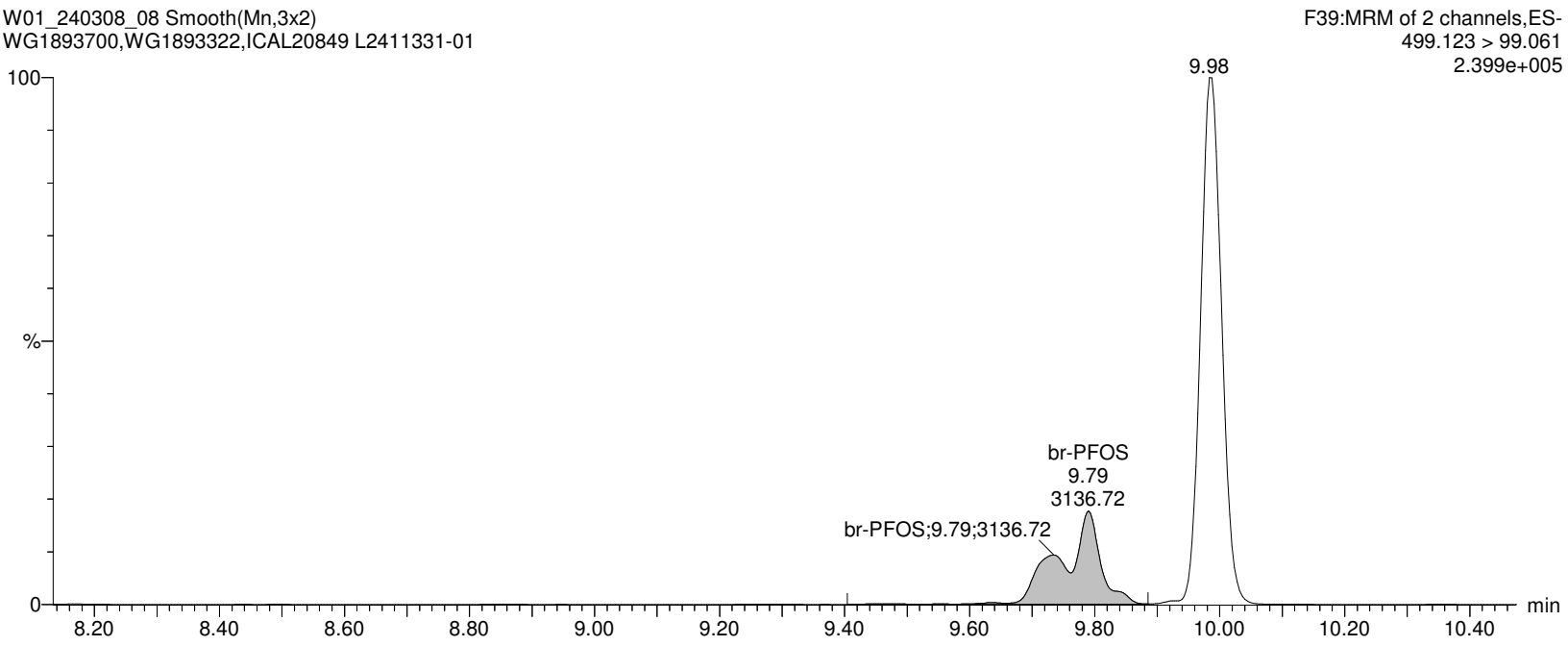

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

Name: W01_240308_08
ID: L2411331-01
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
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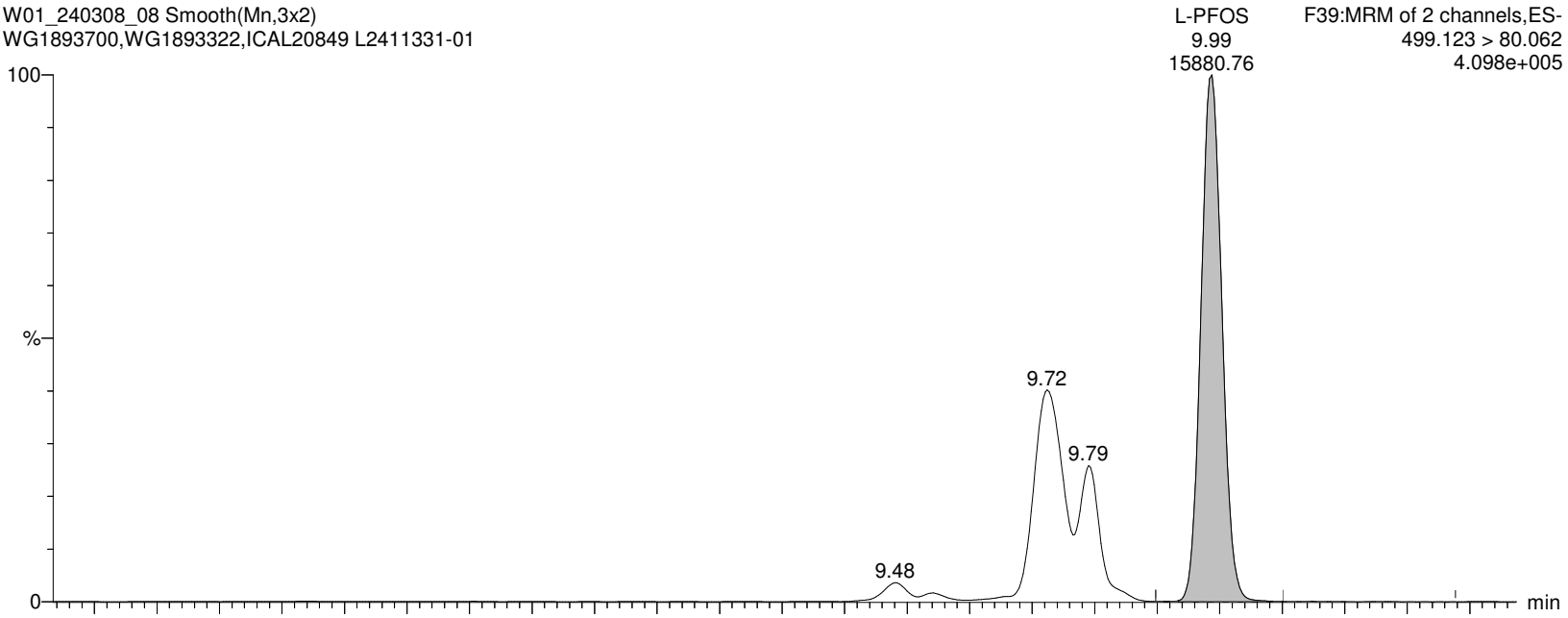

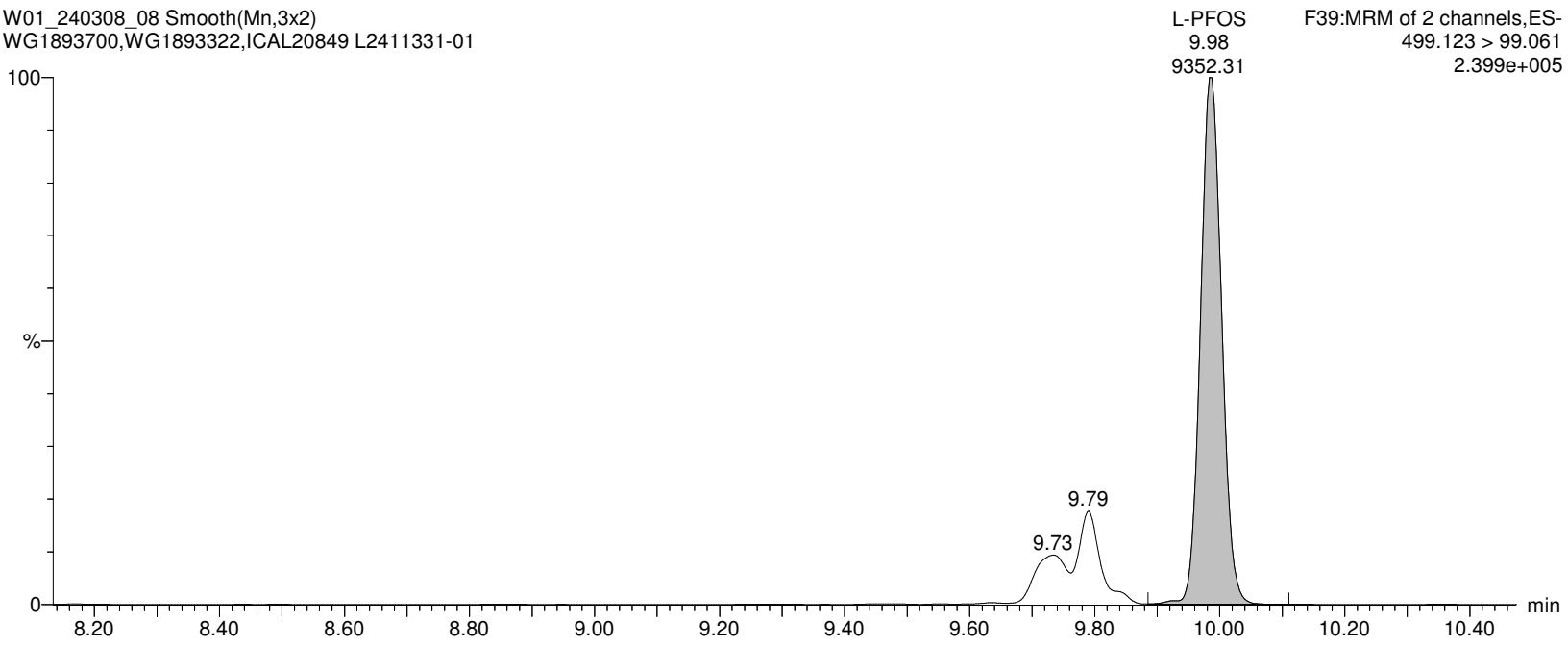

all concentration units in (ng/mL)

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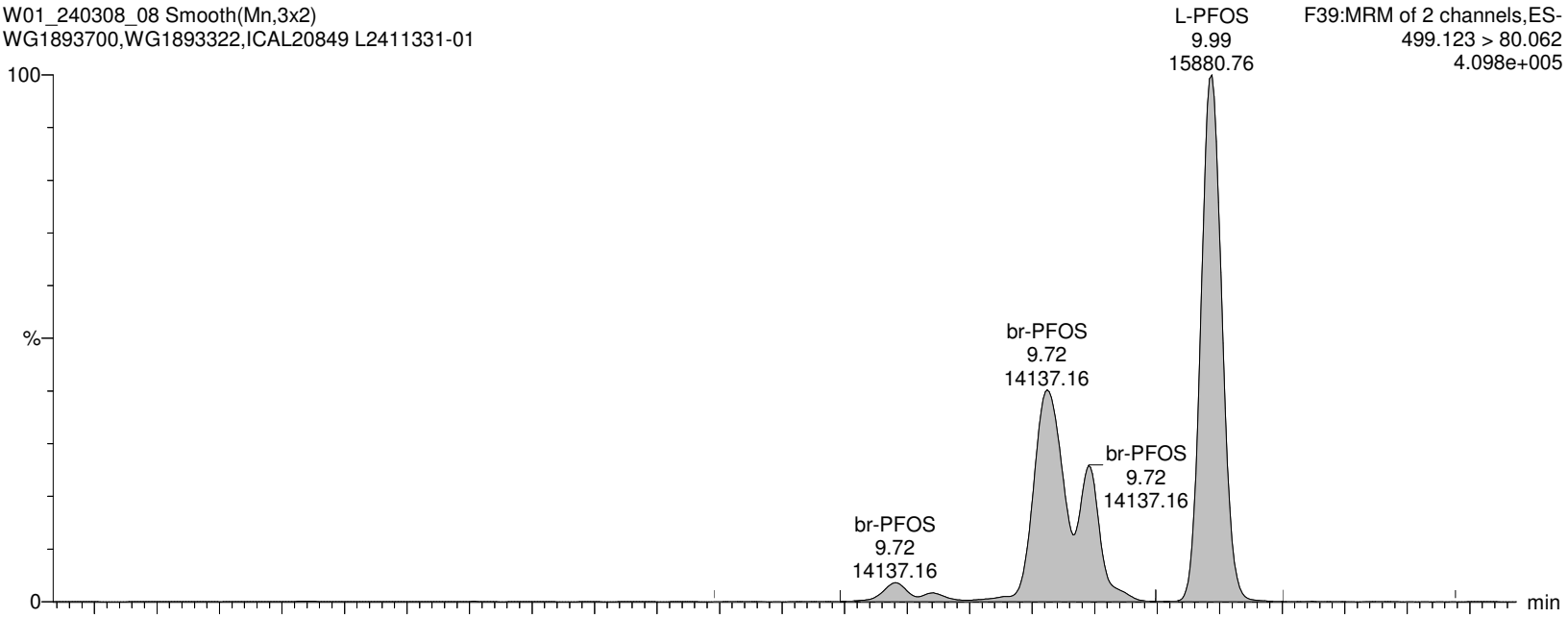

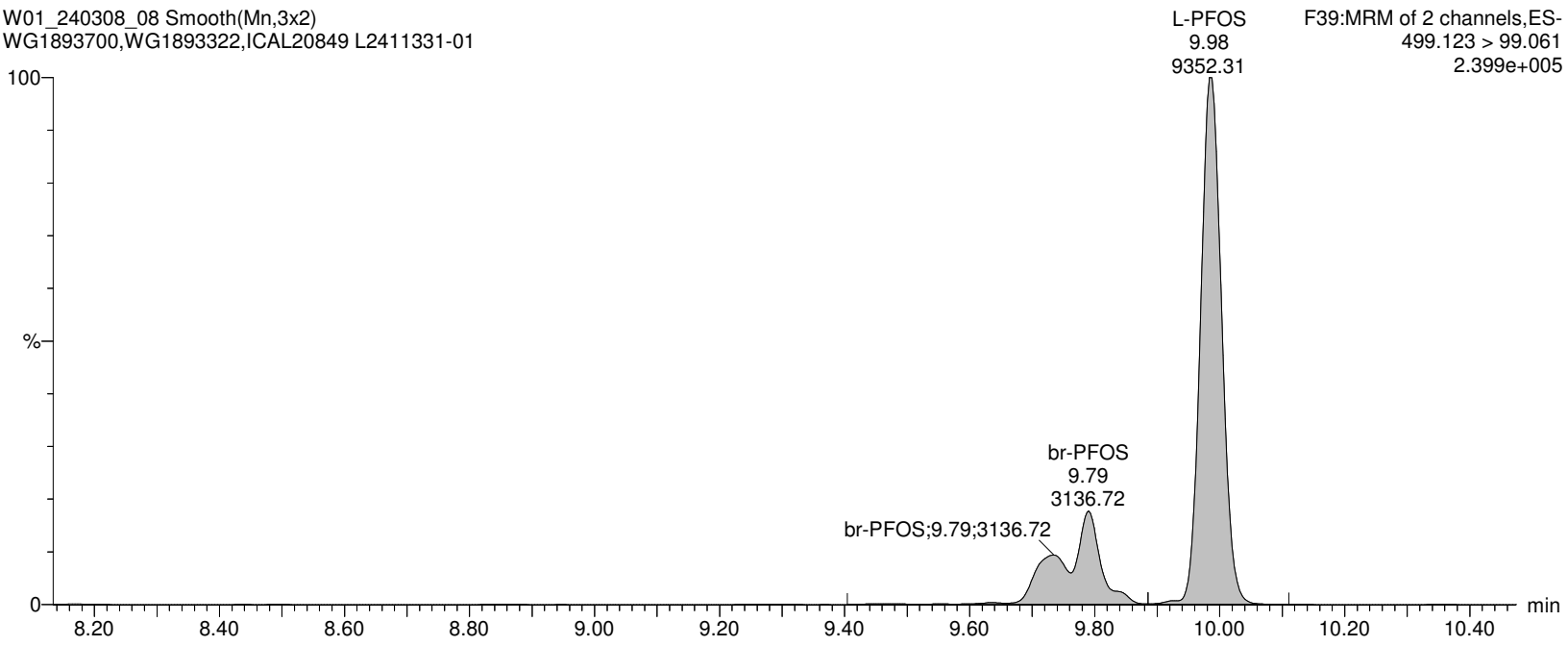

all concentration units in (ng/mL)

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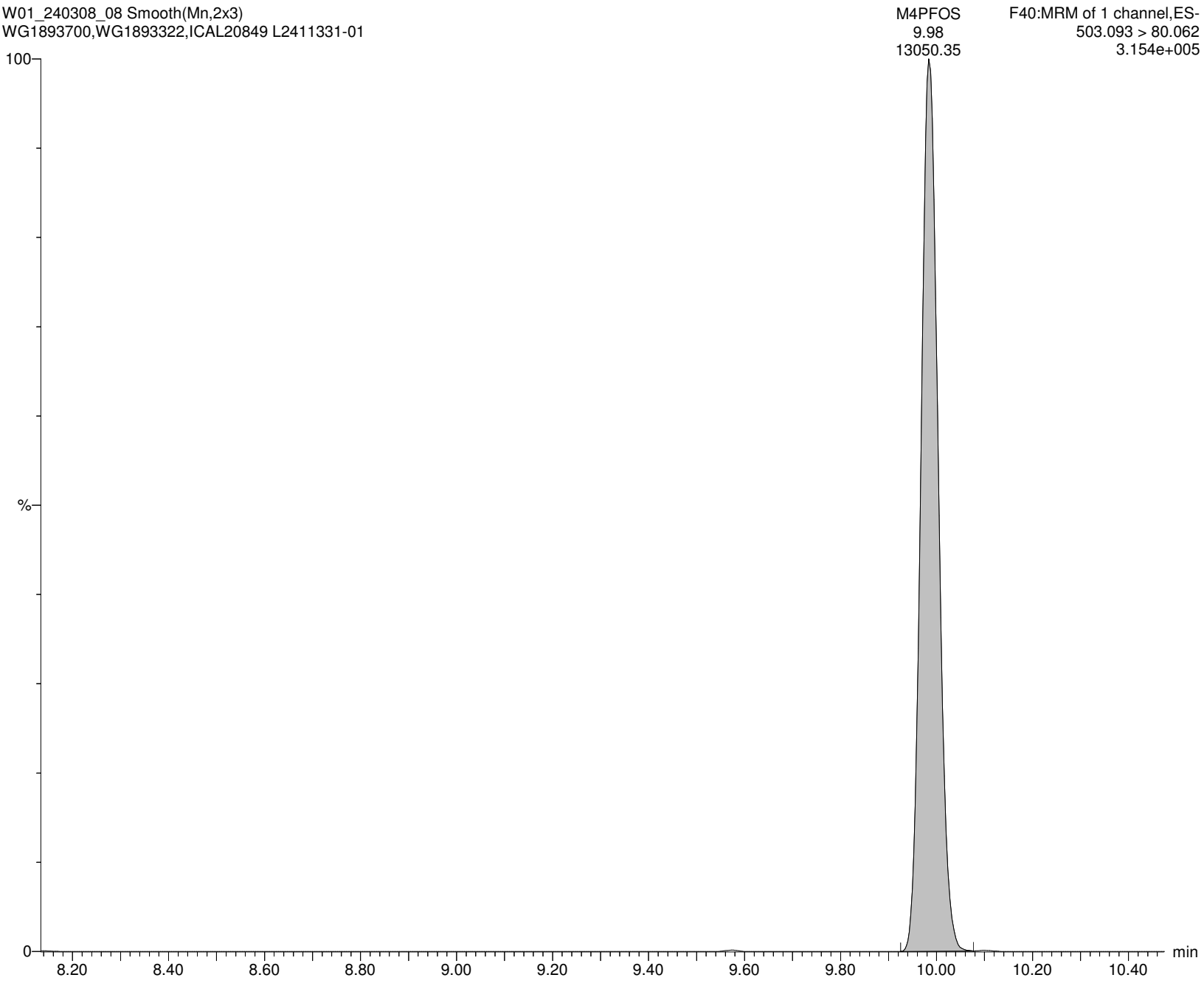

all concentration units in (ng/mL)

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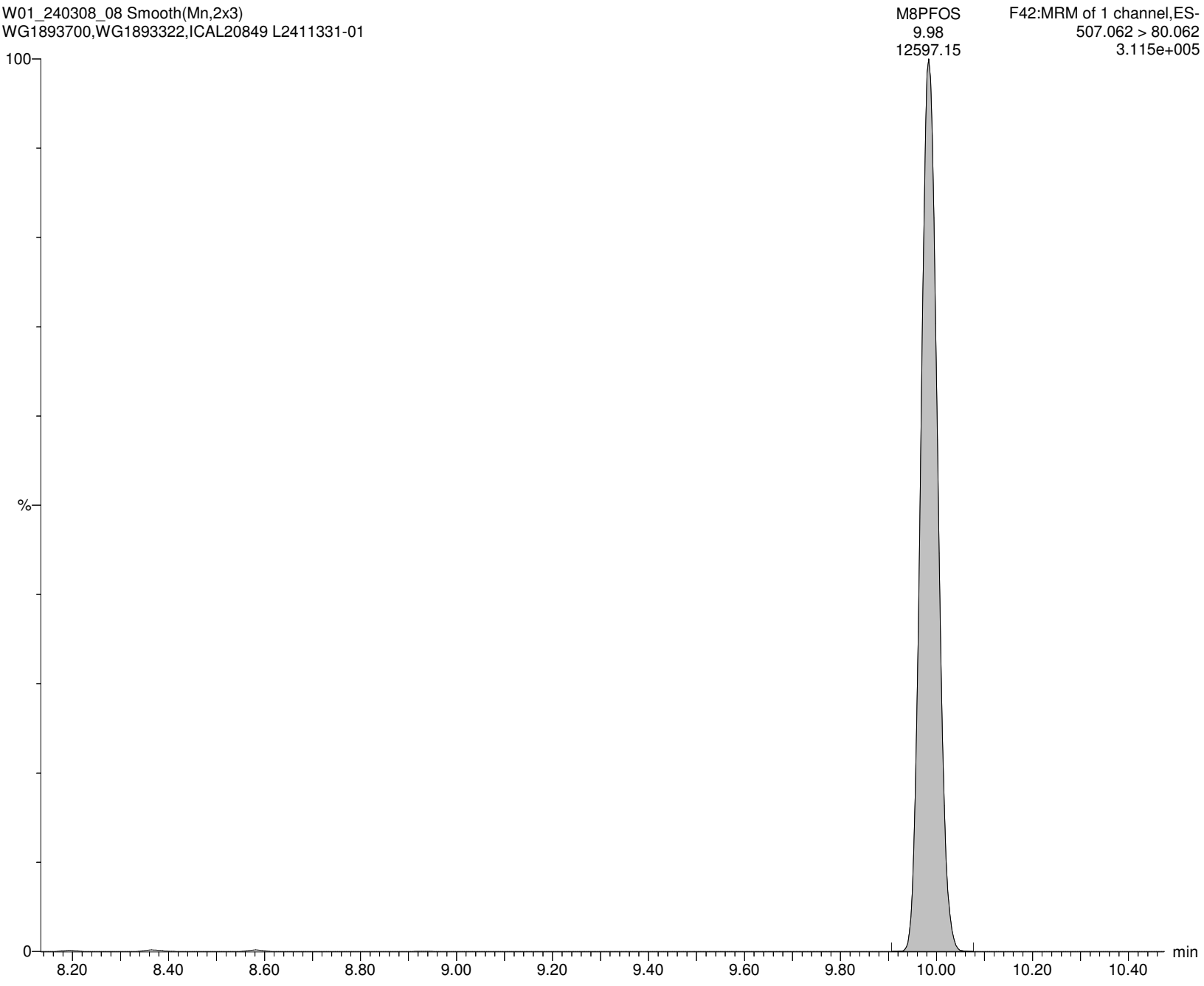

all concentration units in (ng/mL)

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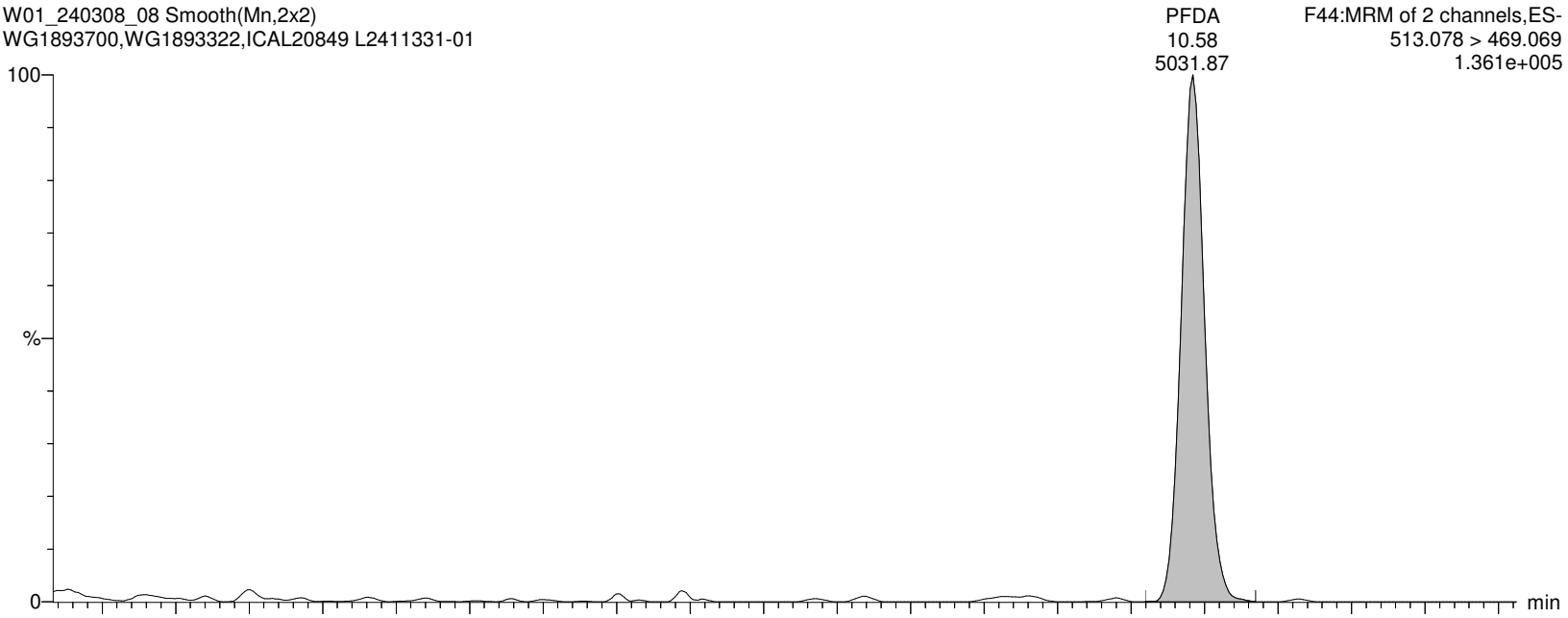

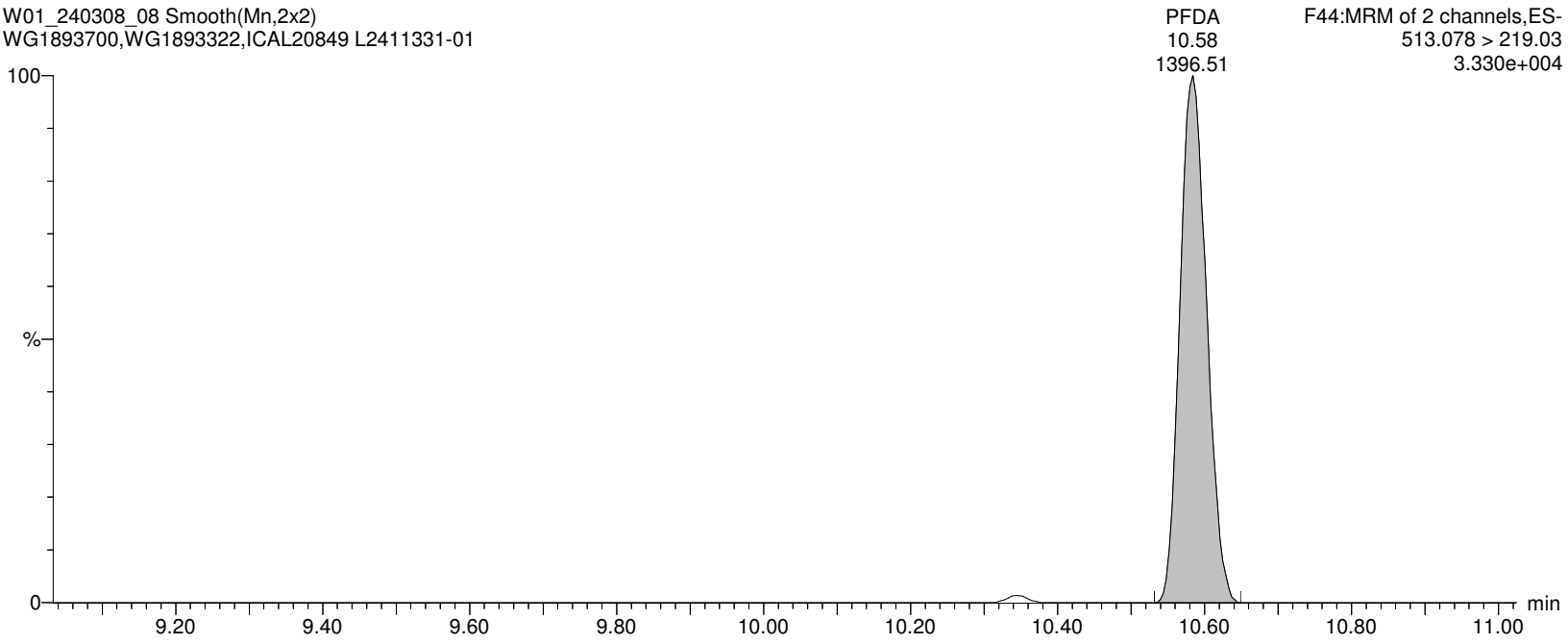

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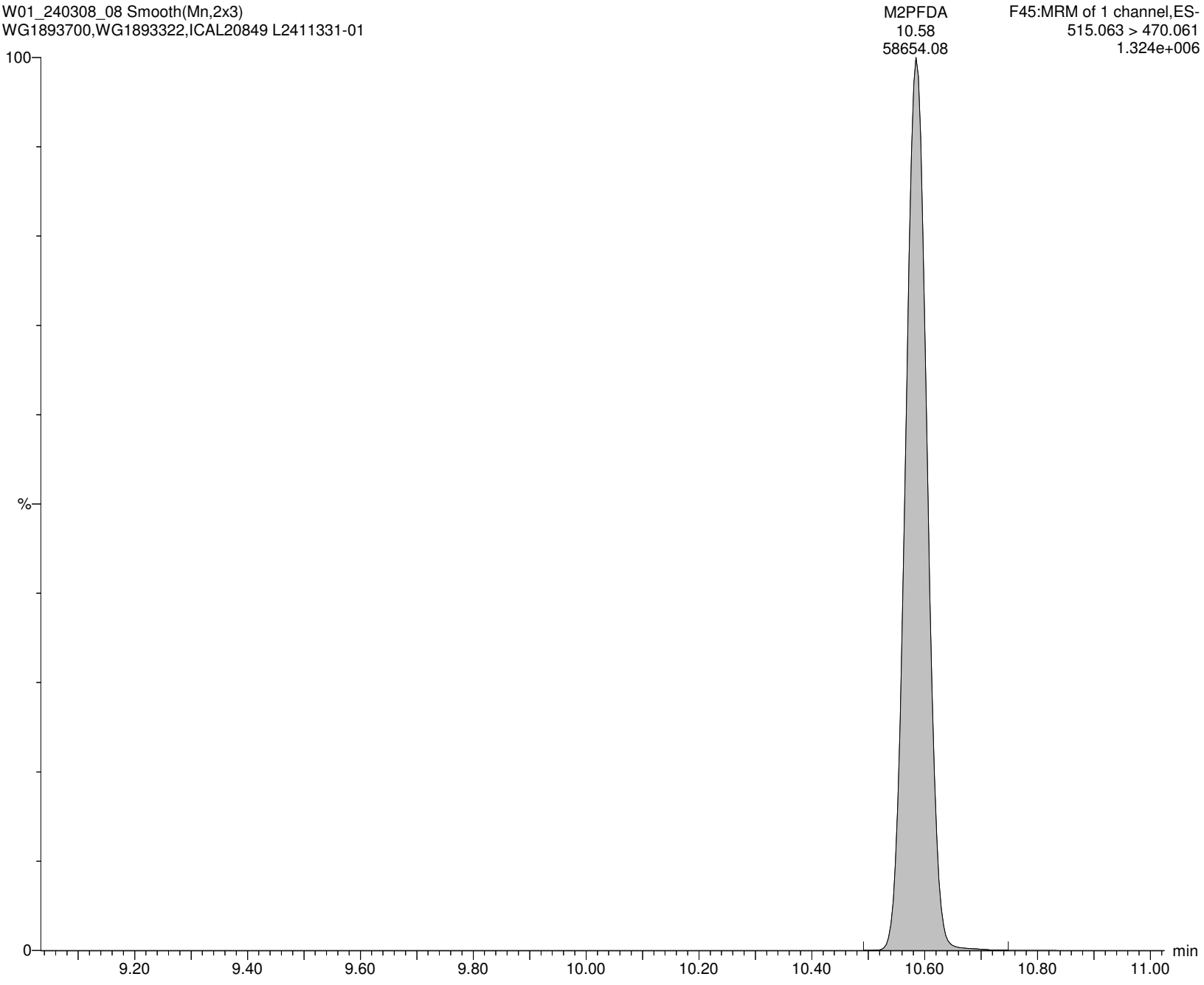

all concentration units in (ng/mL)

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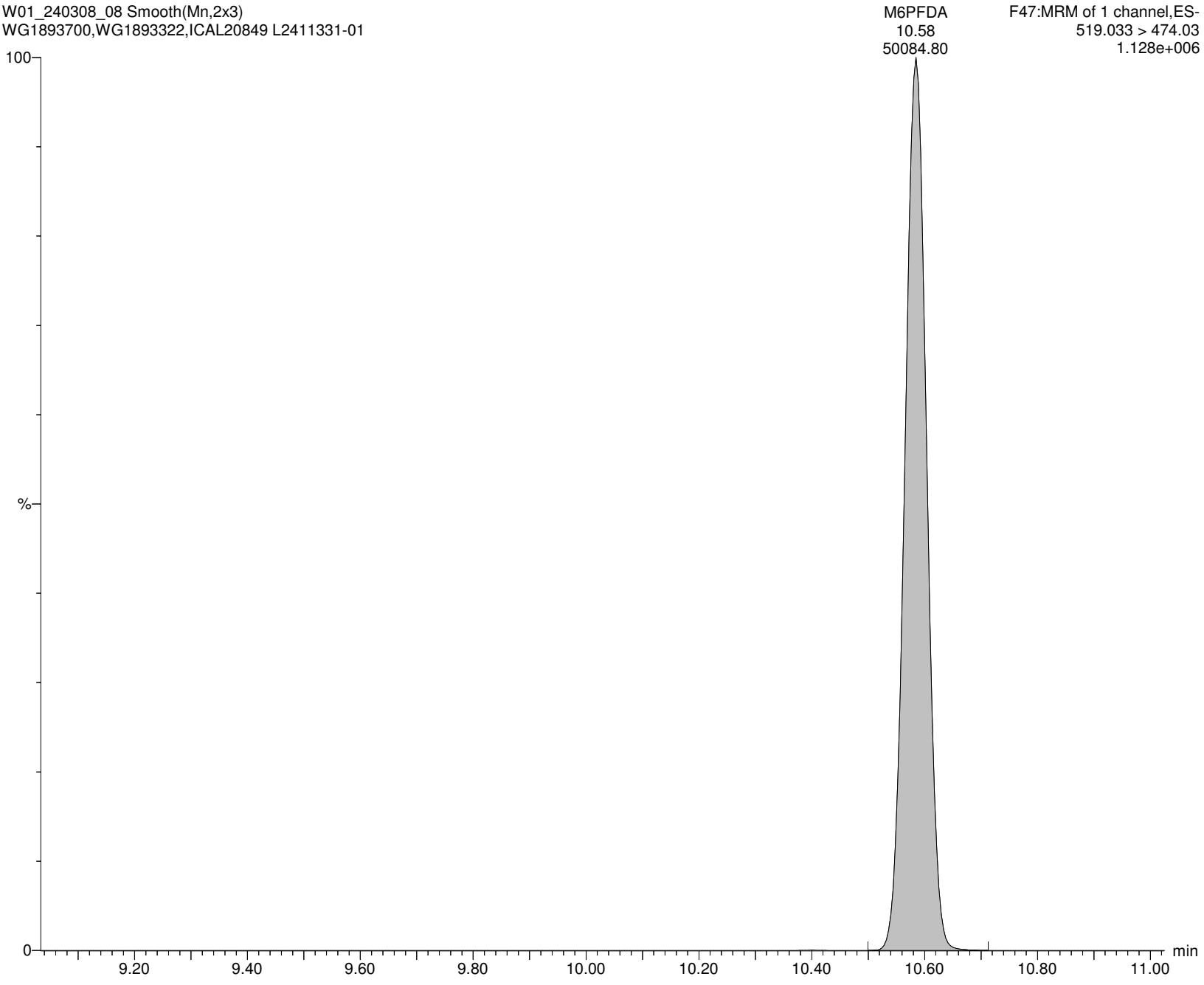

all concentration units in (ng/mL)

Alpha Analytical Inc.
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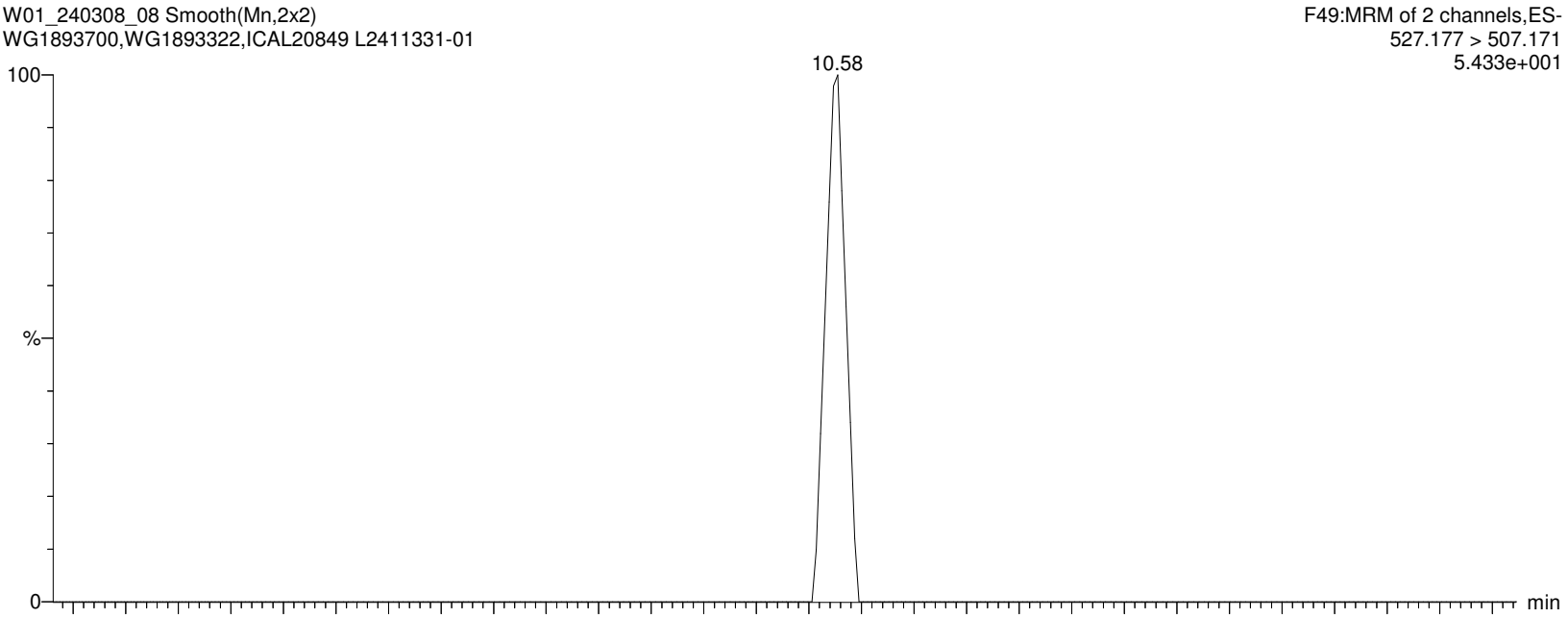

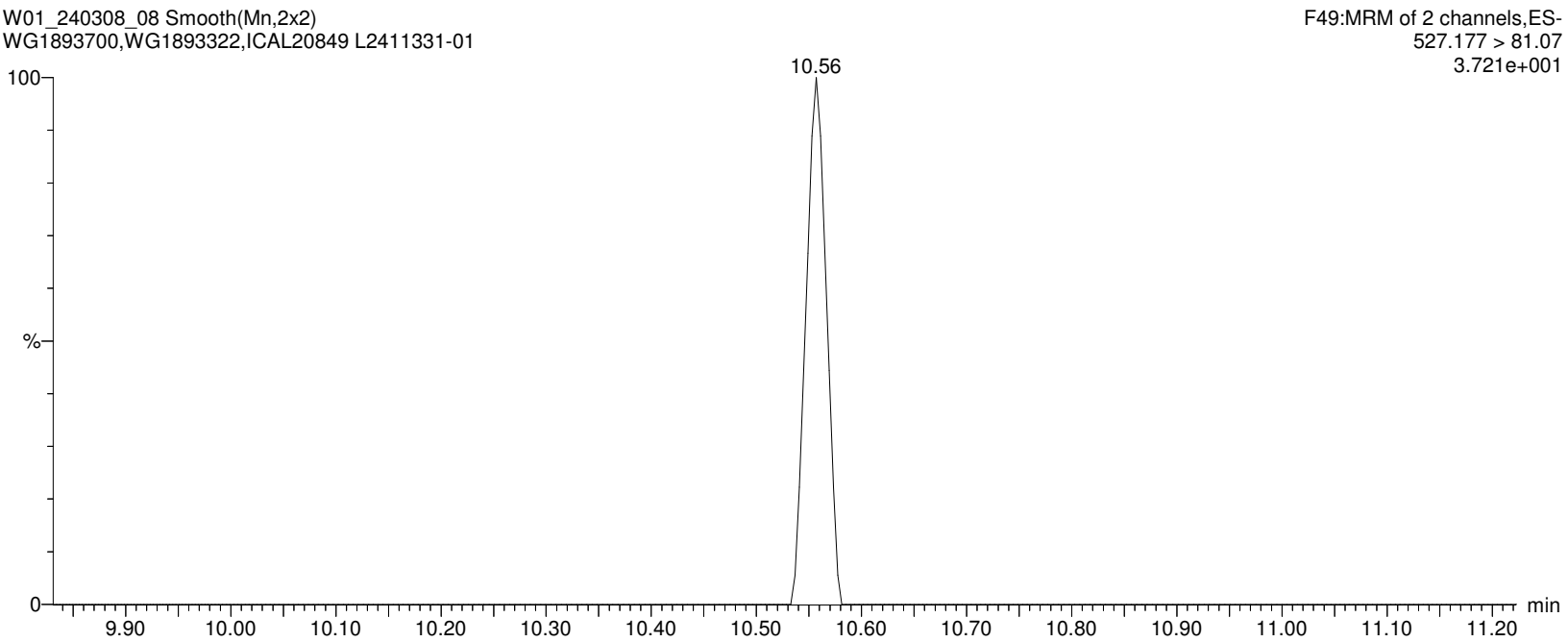

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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Vial: 1:B,3
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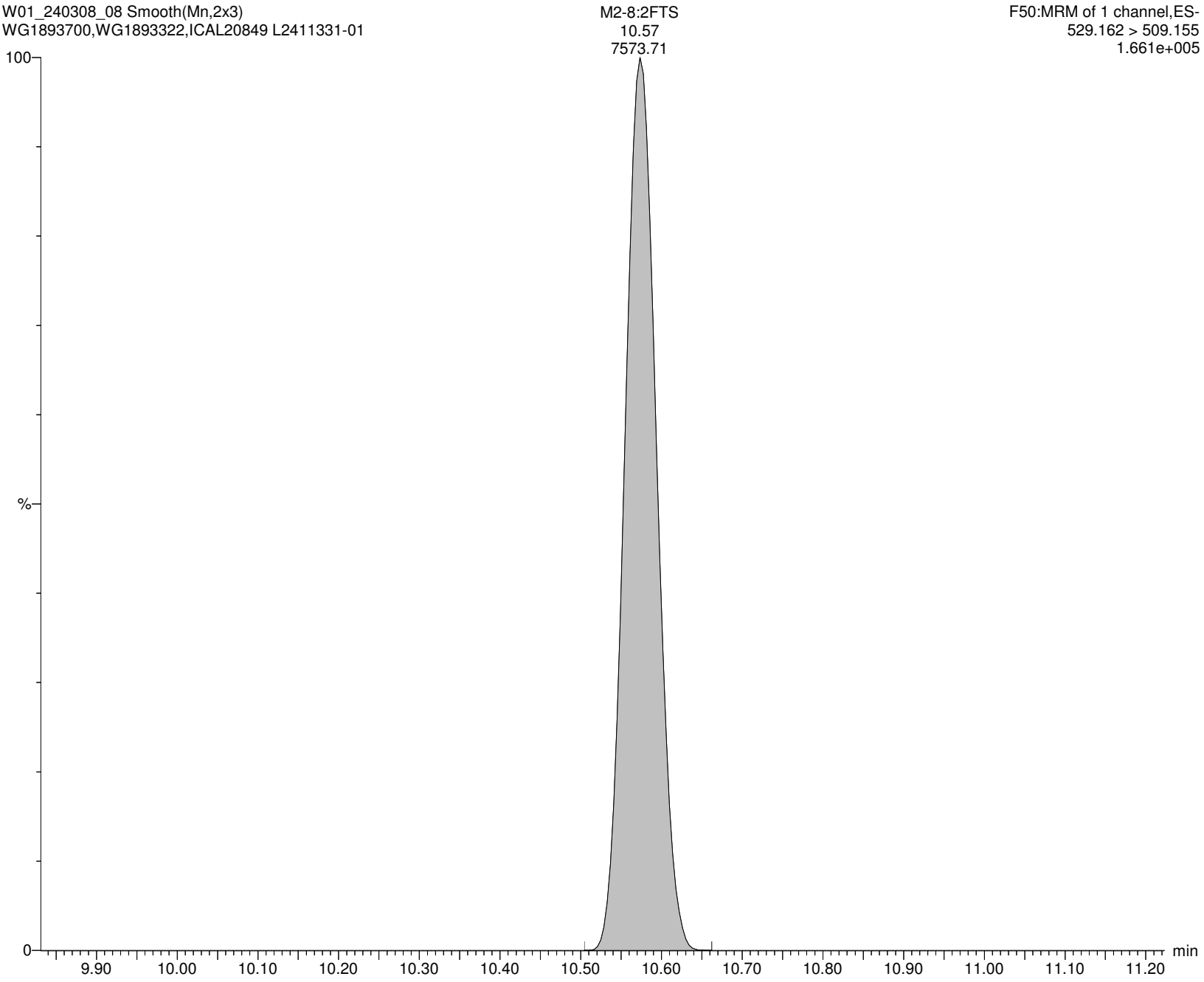

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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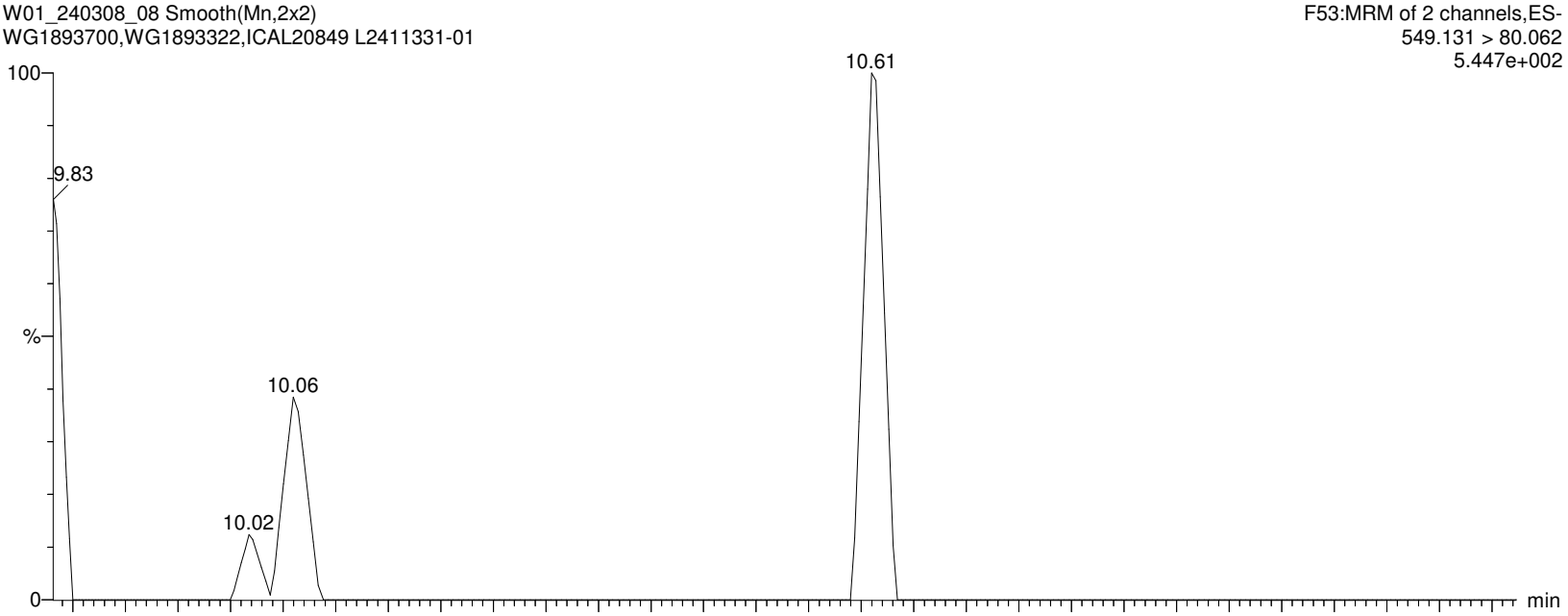

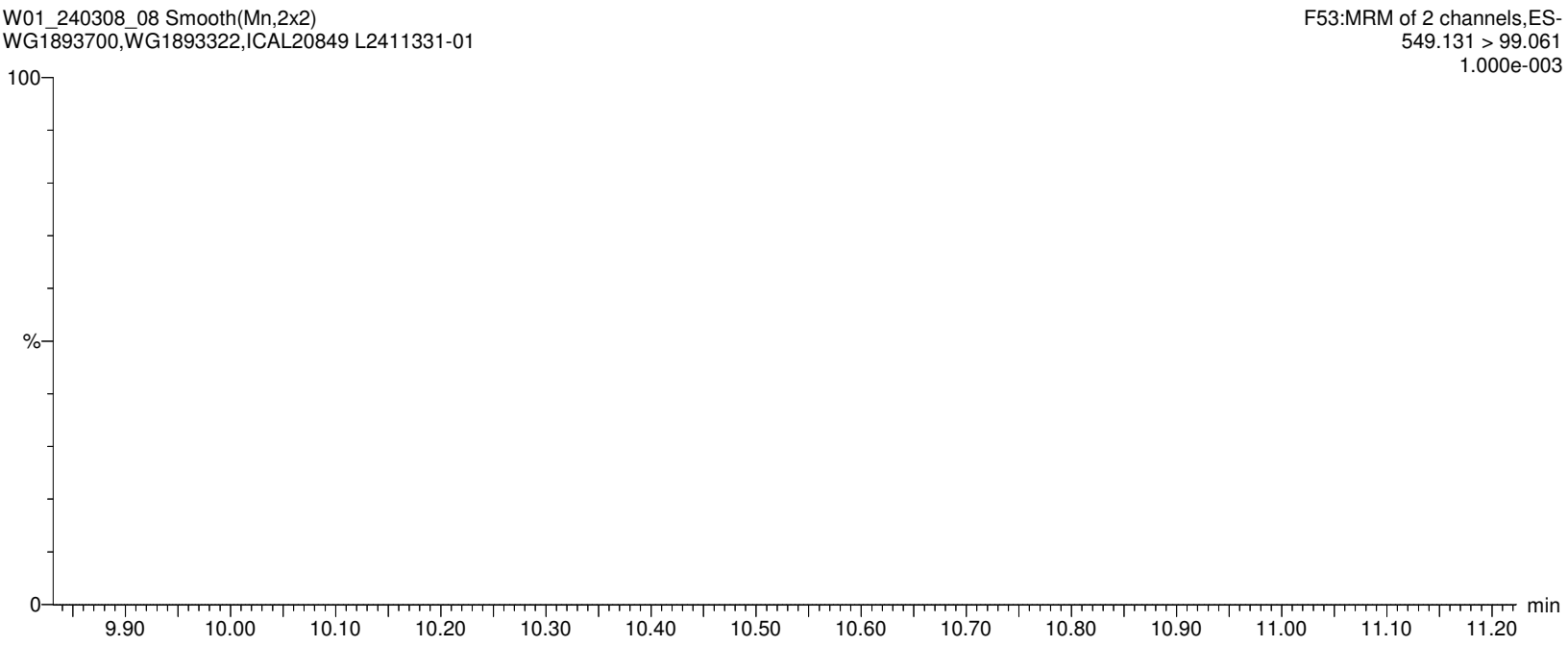

all concentration units in (ng/mL)

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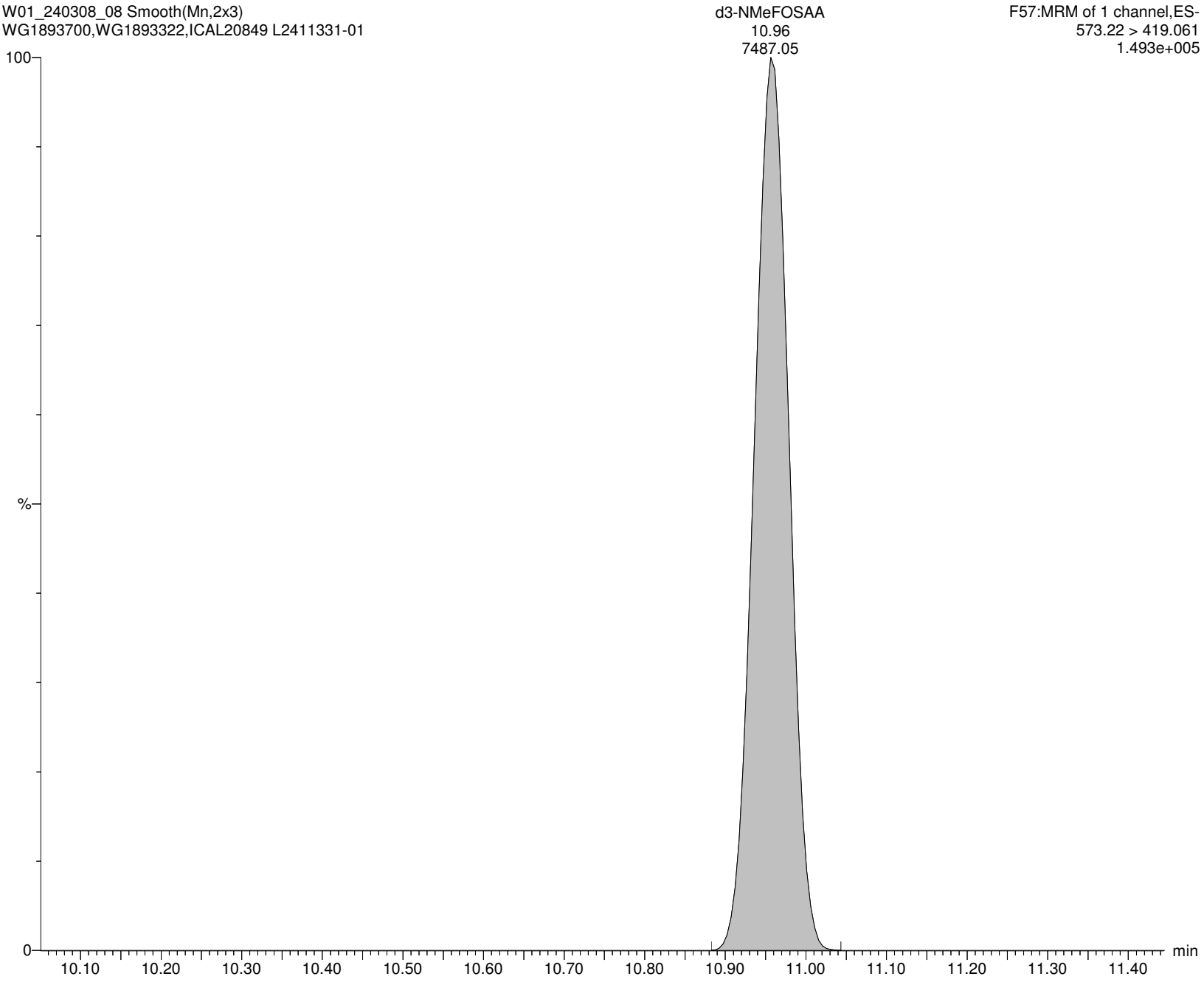

all concentration units in (ng/mL)

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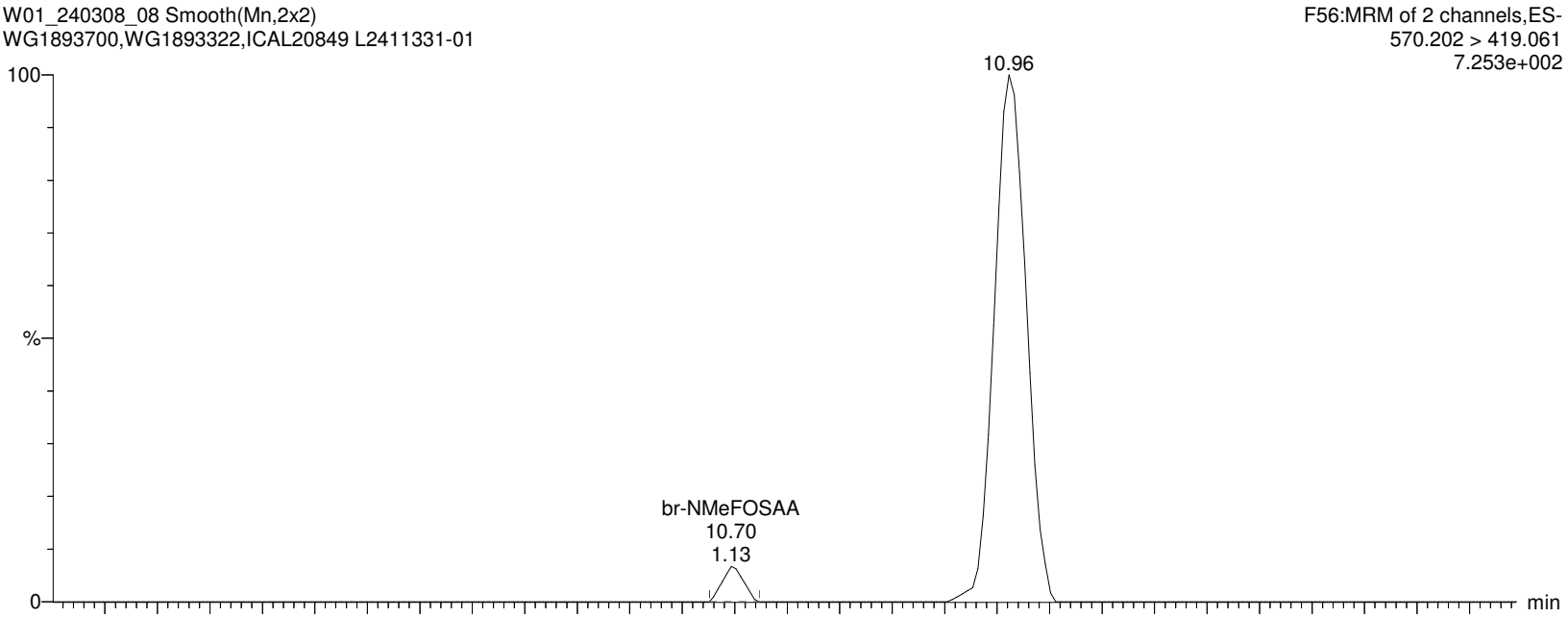

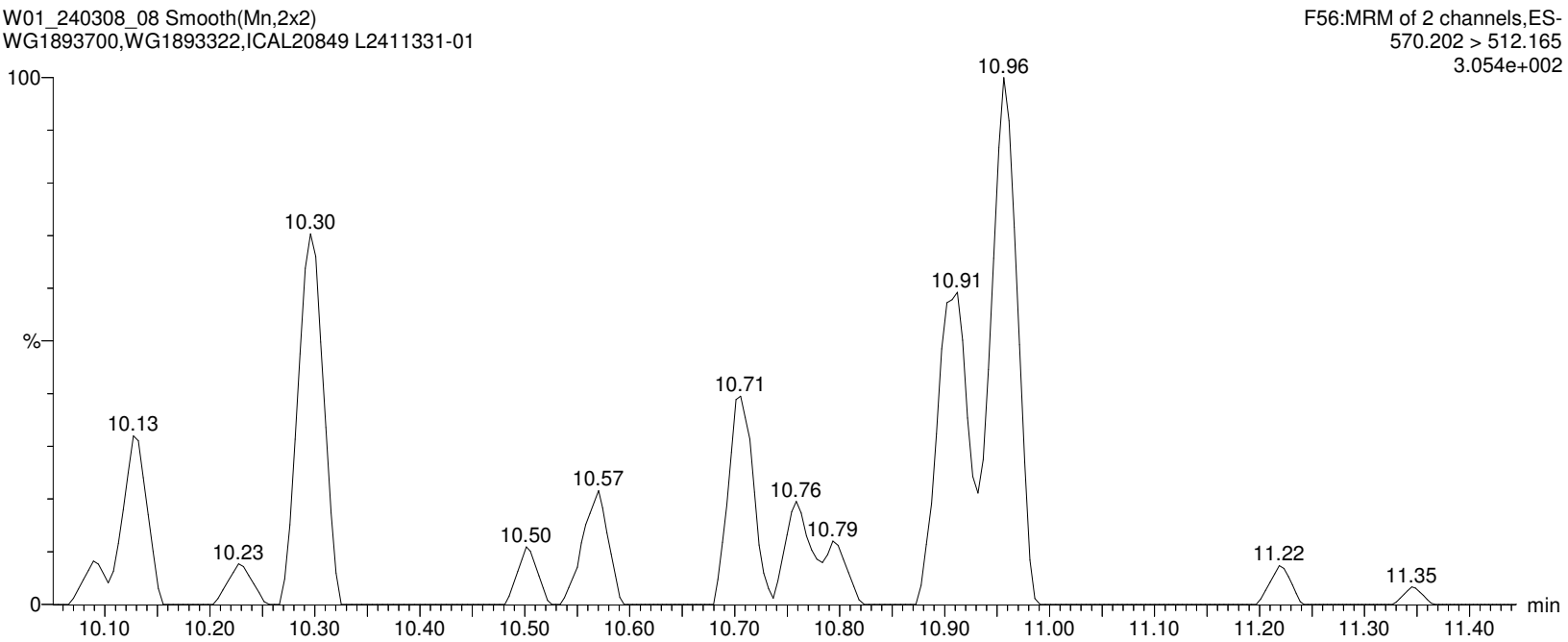

all concentration units in (ng/mL)

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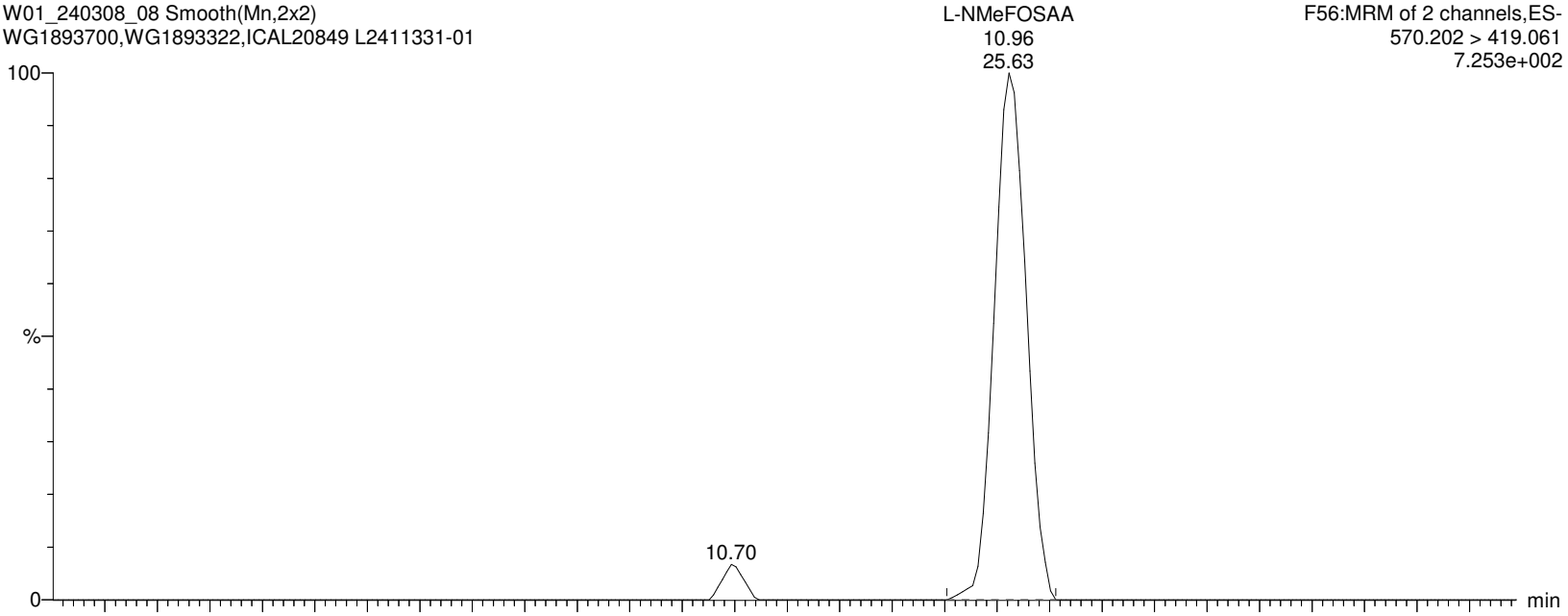

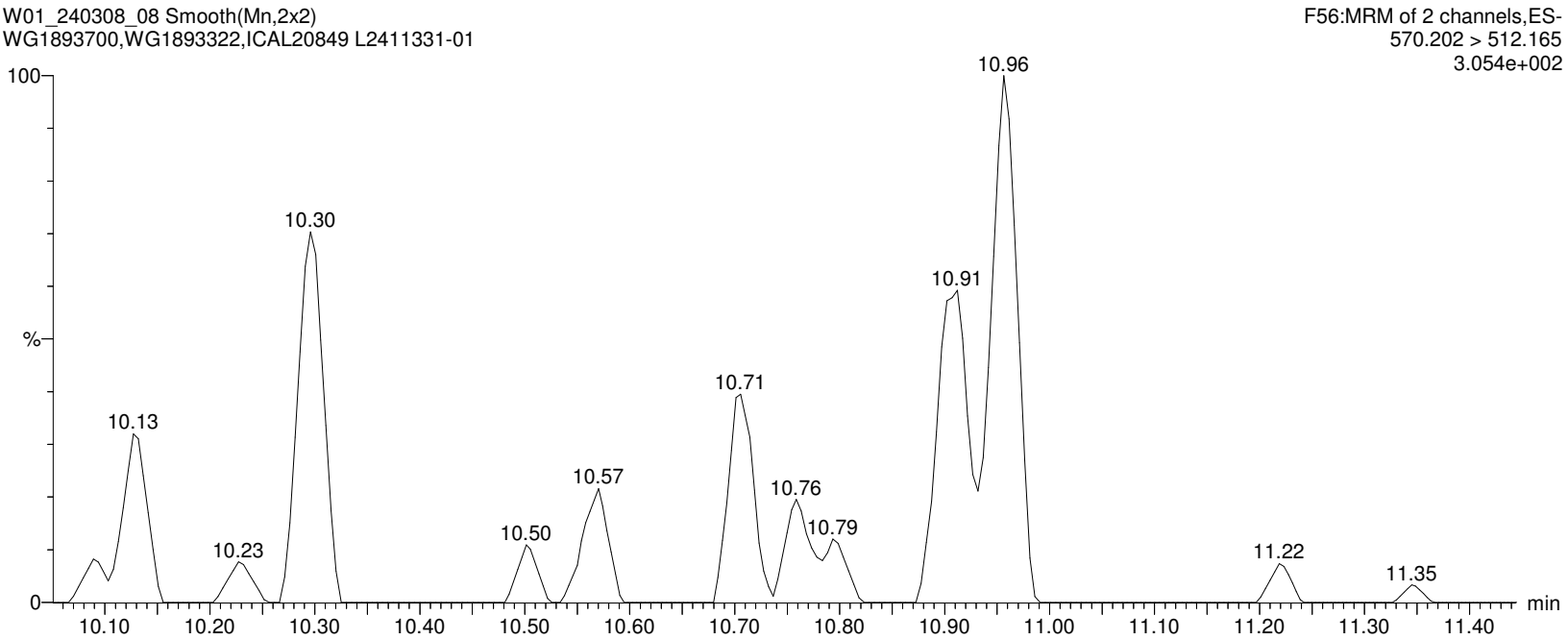

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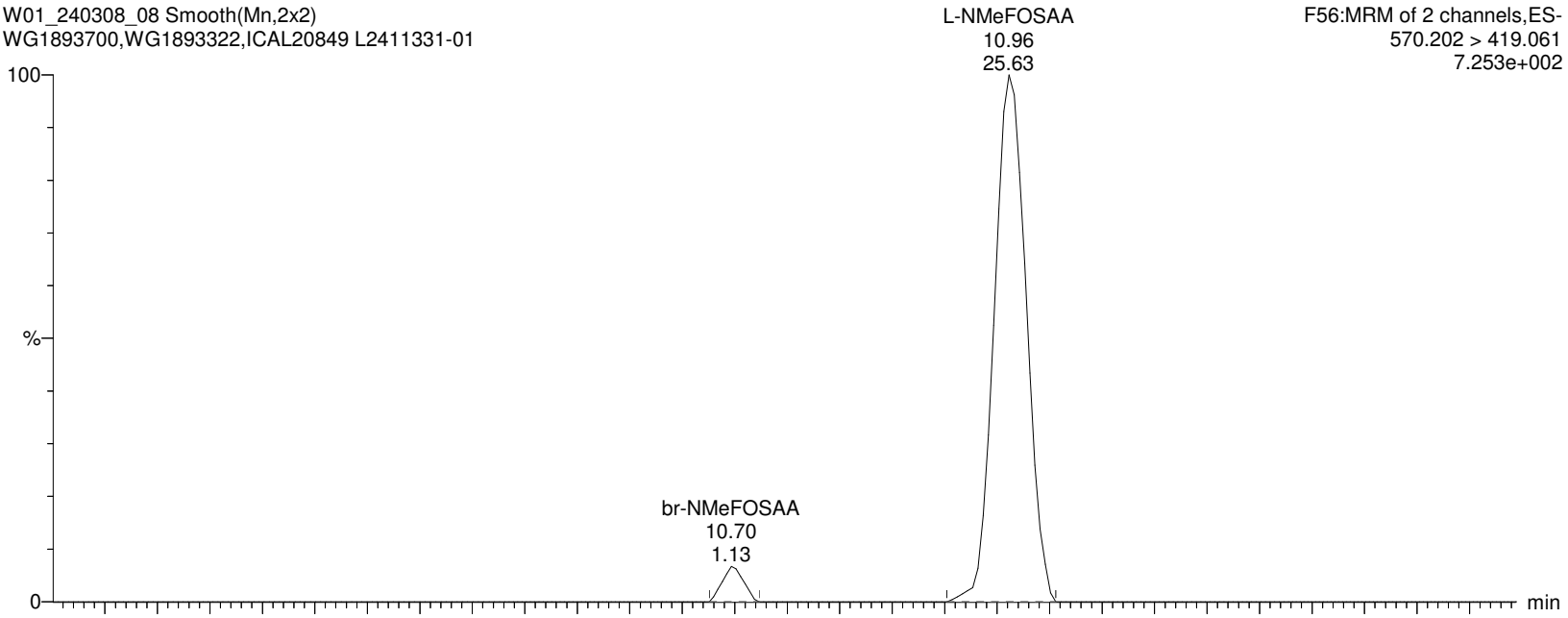

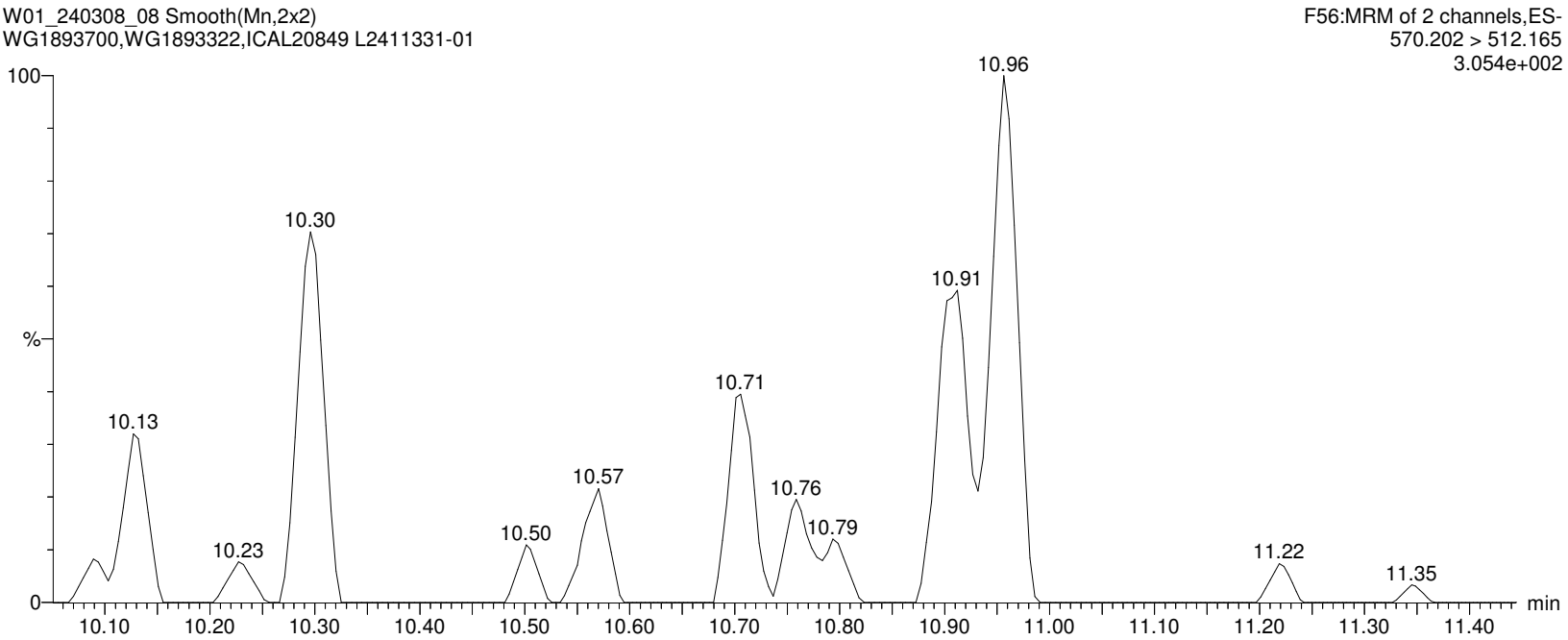

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Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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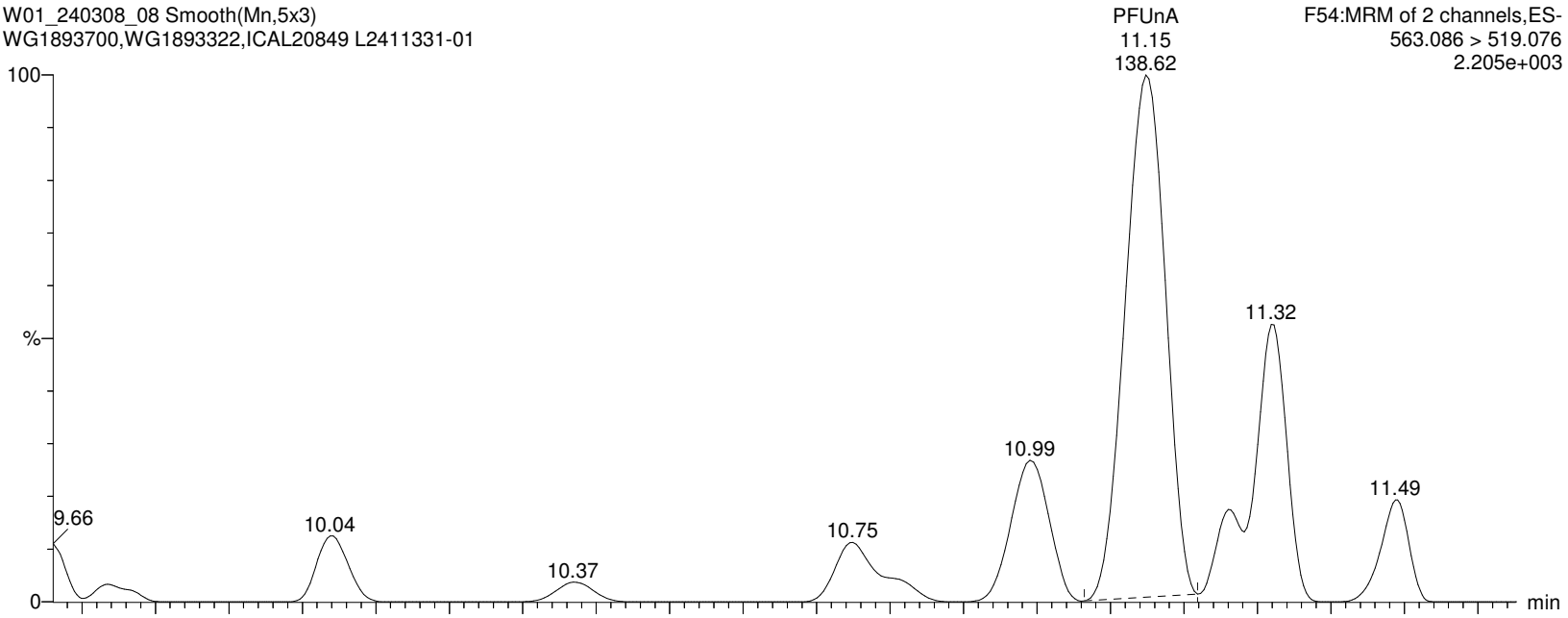

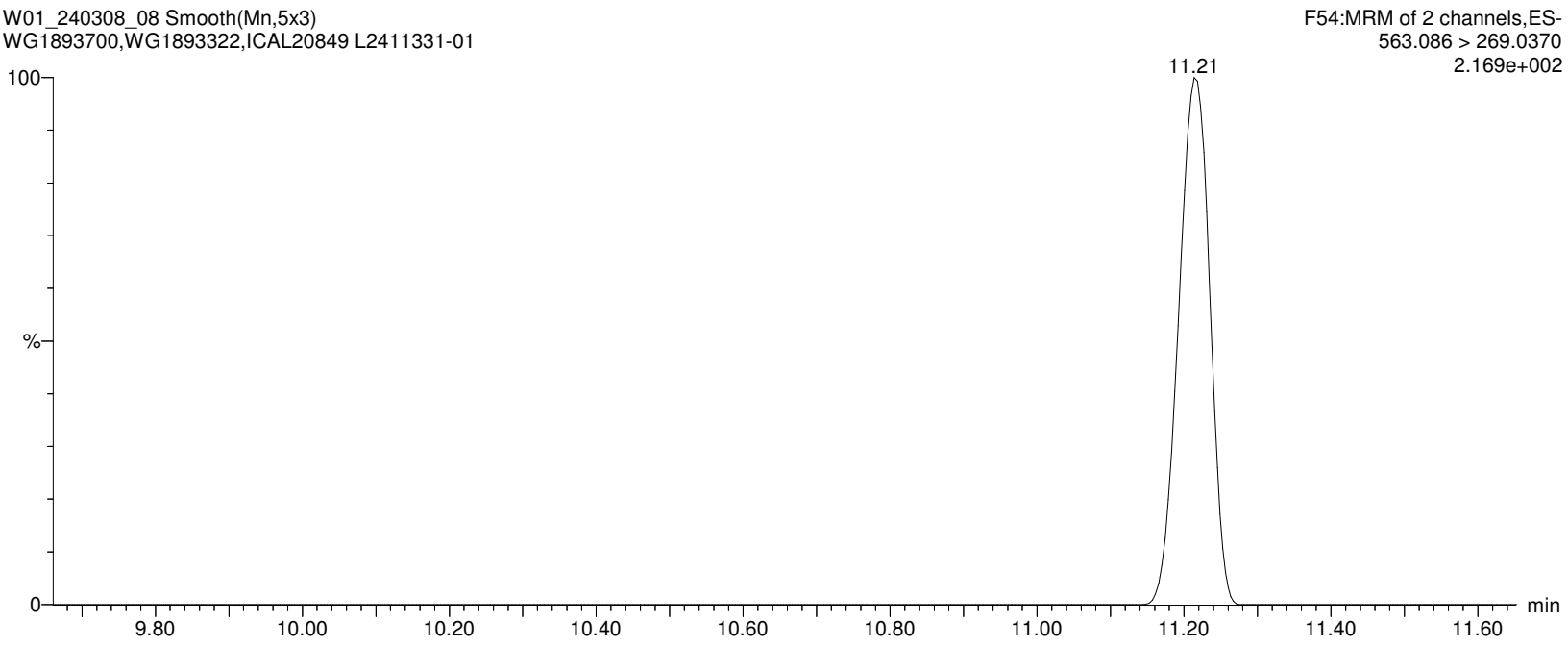

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:36 Eastern Standard Time

Name: W01_240308_08
ID: L2411331-01
Date: 08-Mar-2024
Time: 06:59:38
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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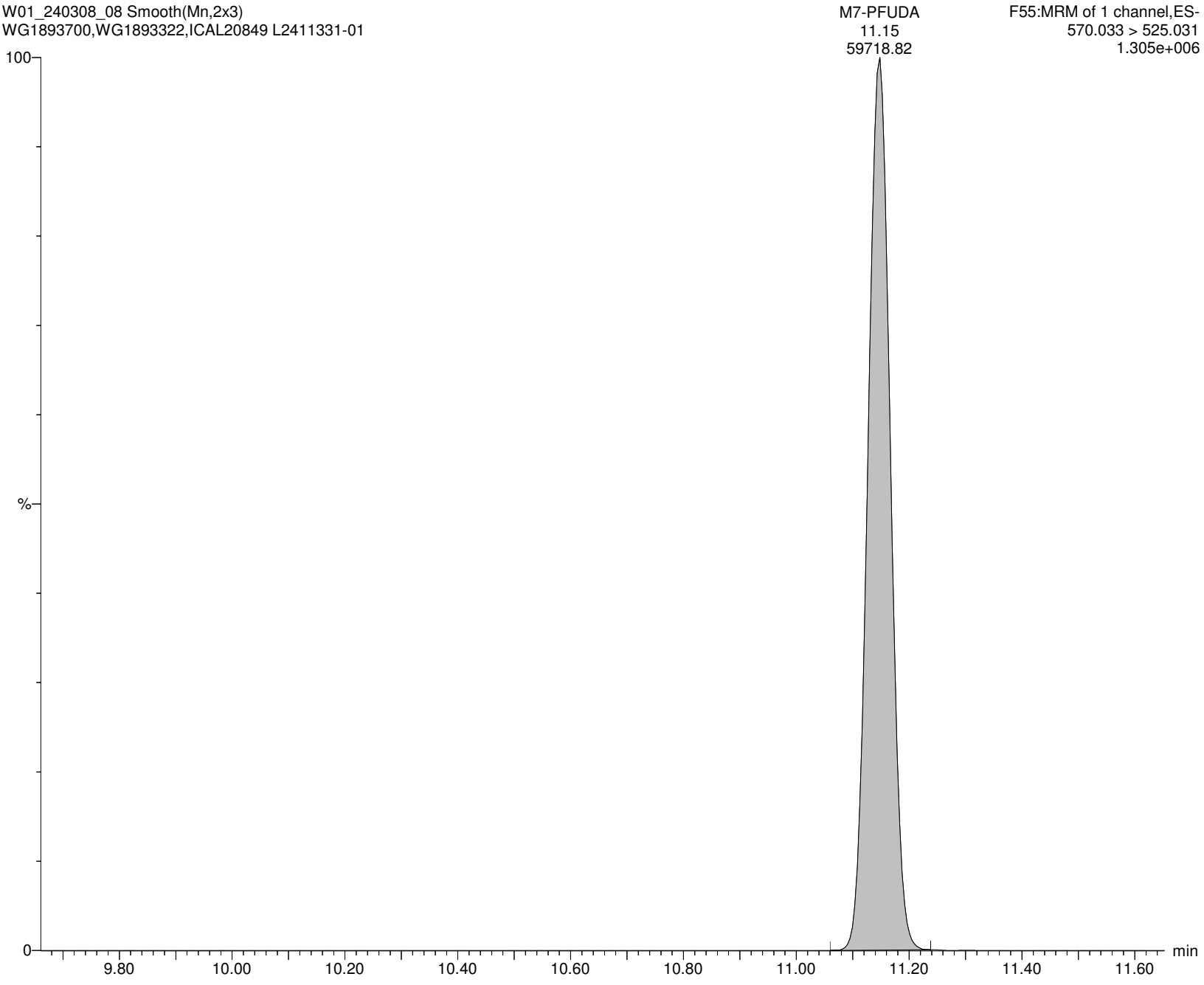
M7-PFUDA



all concentration units in (ng/mL)

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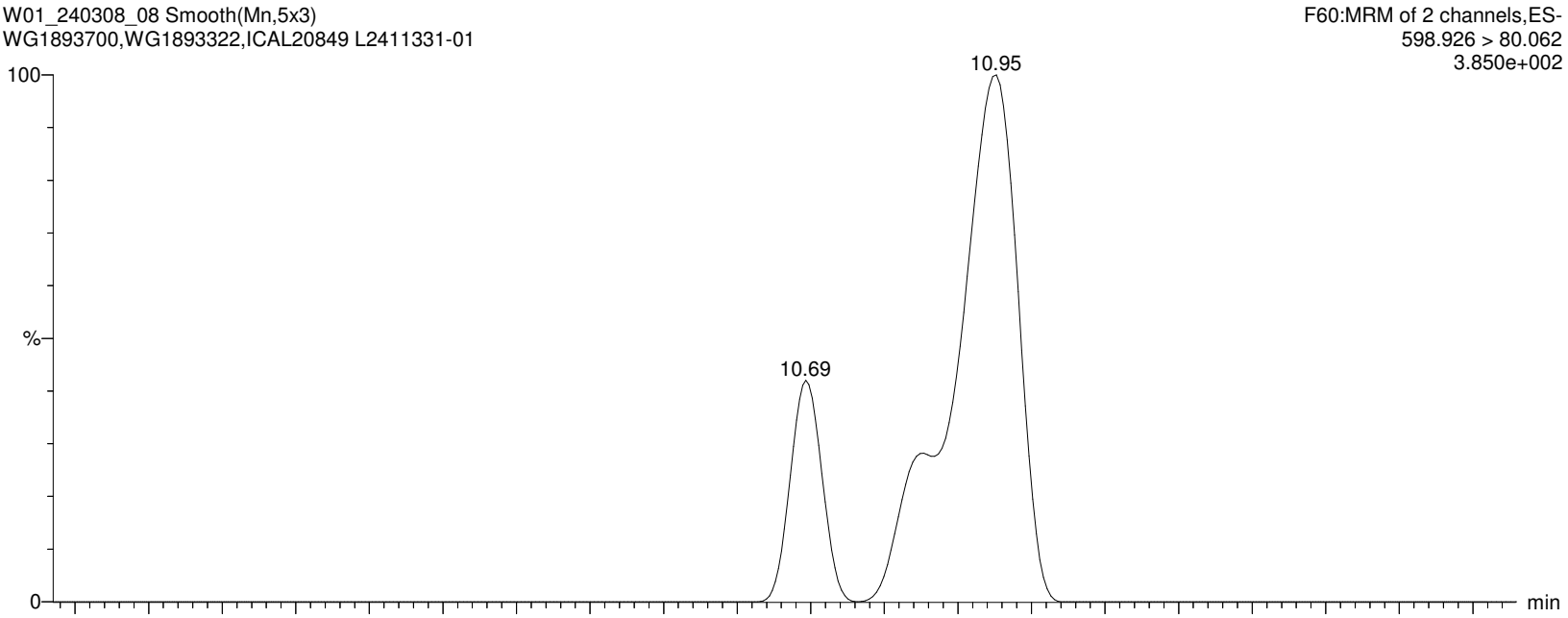

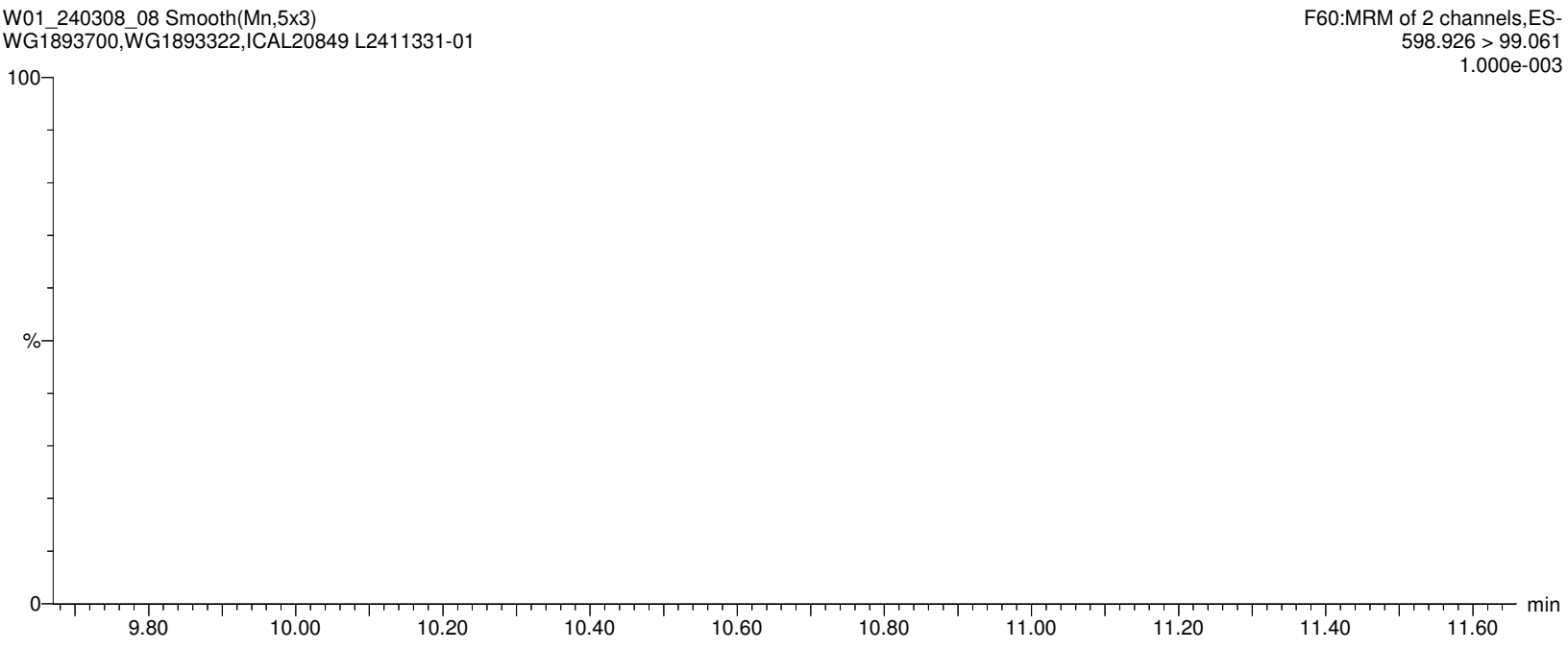

all concentration units in (ng/mL)

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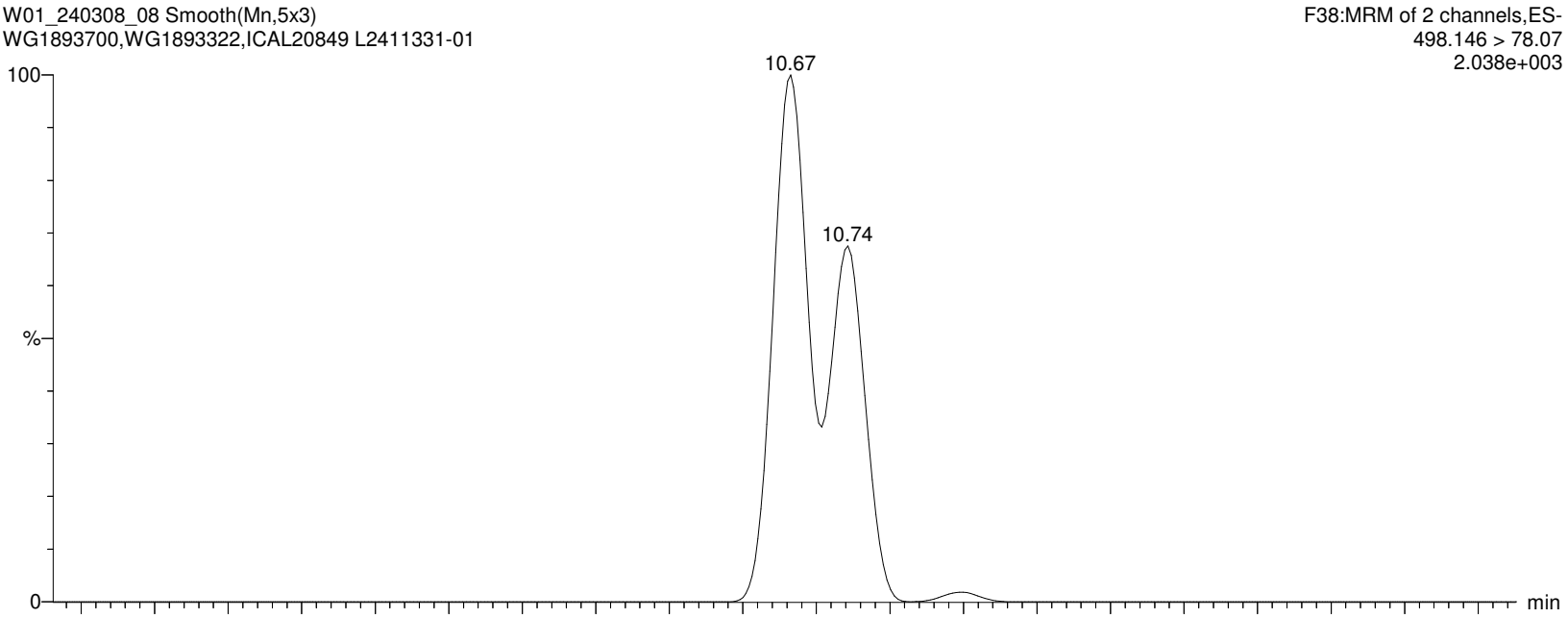

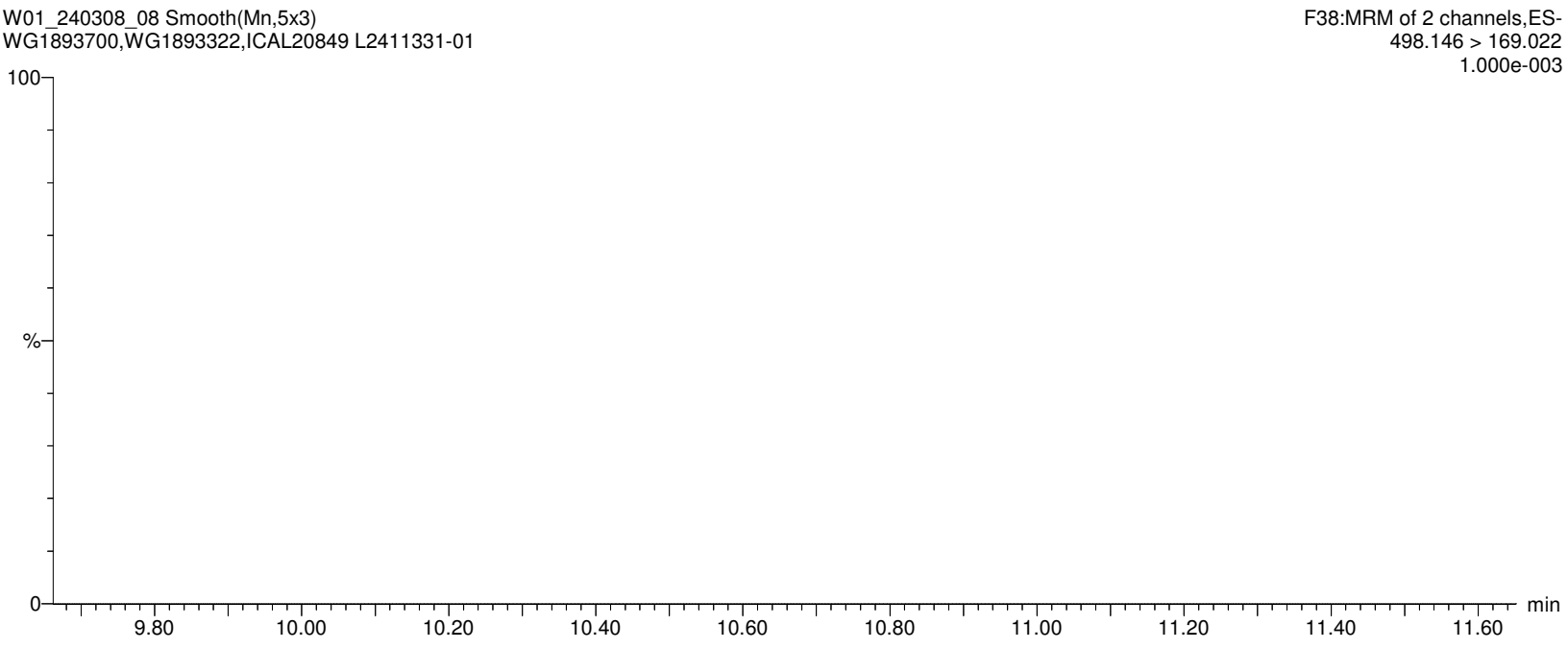

all concentration units in (ng/mL)

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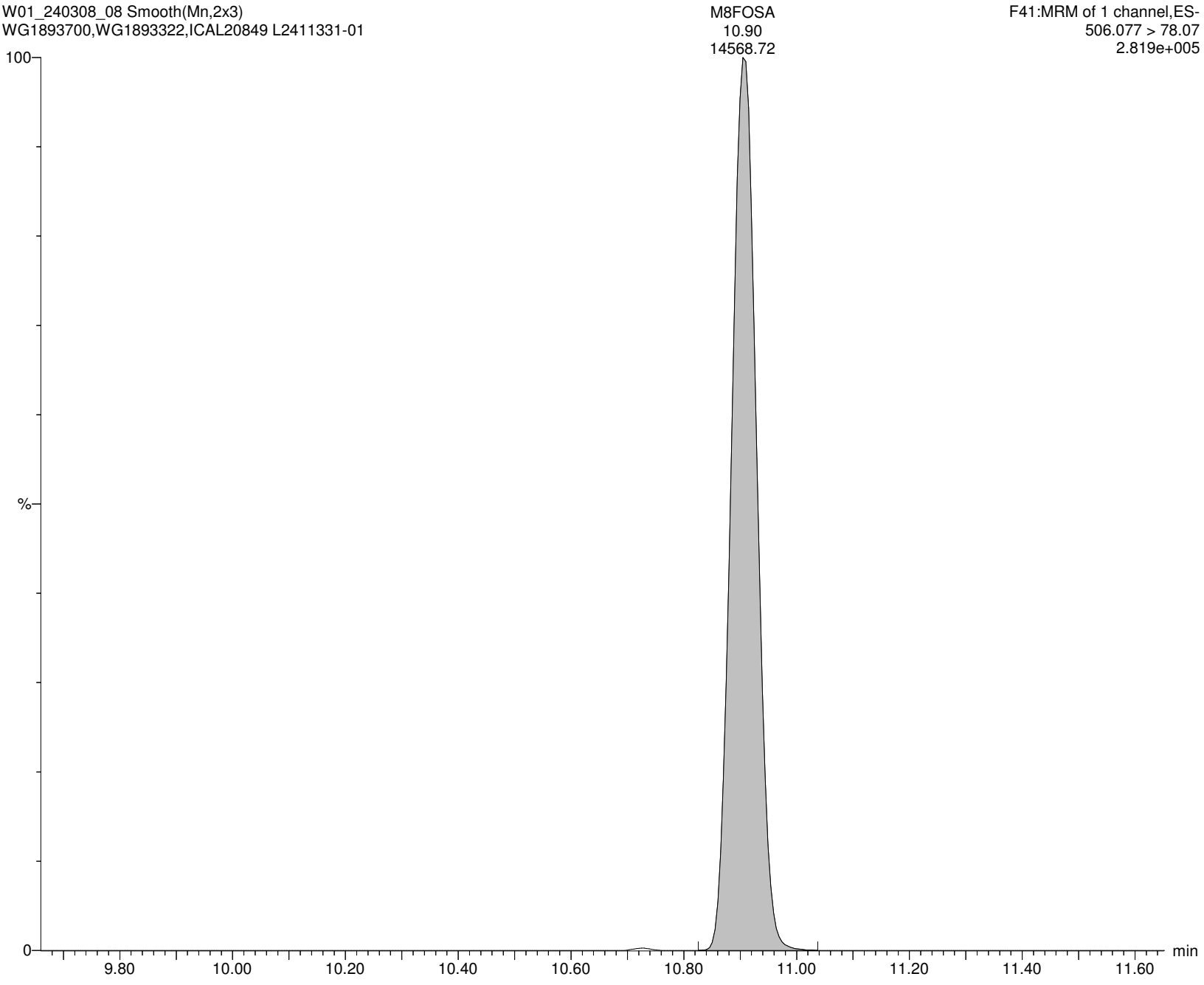

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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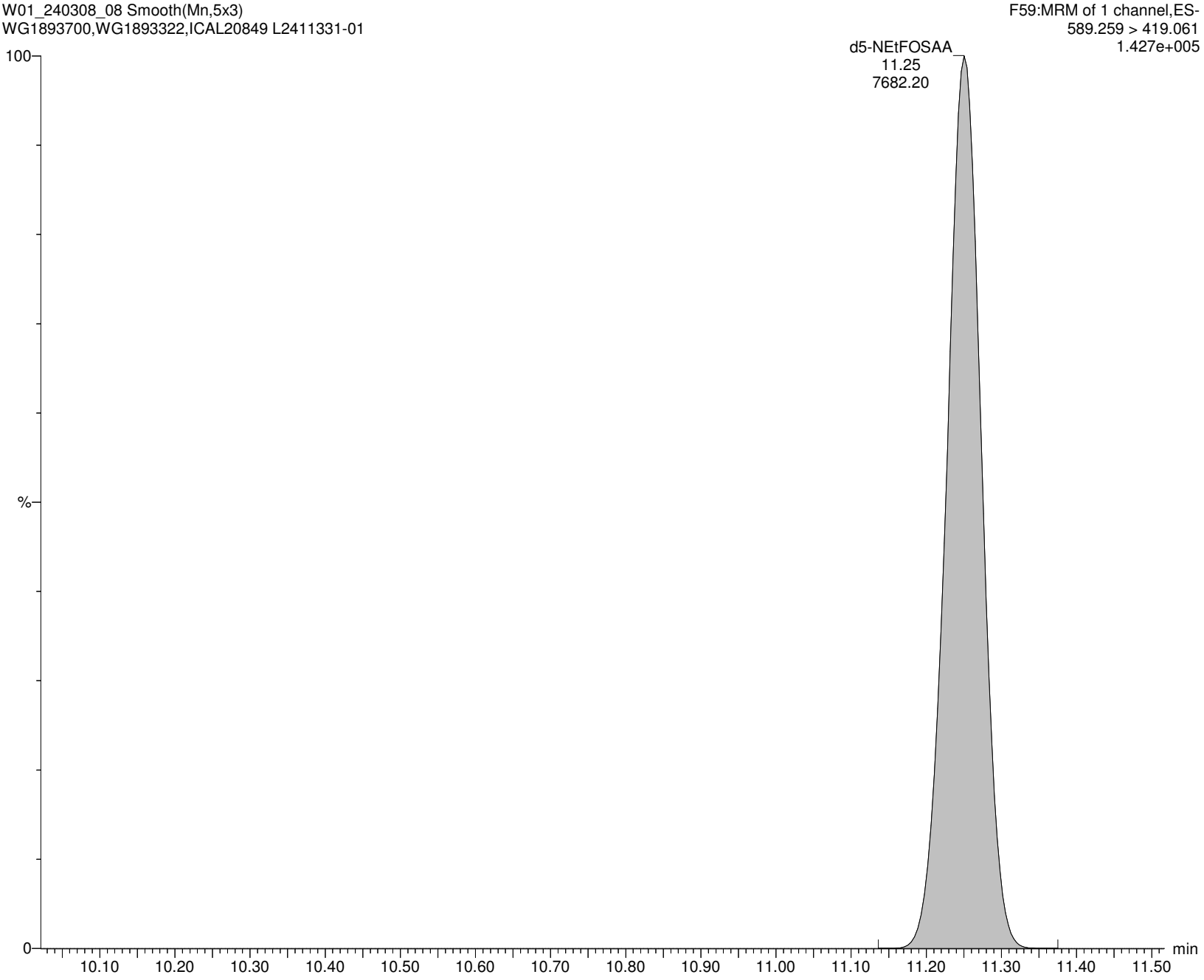

all concentration units in (ng/mL)

Alpha Analytical Inc.
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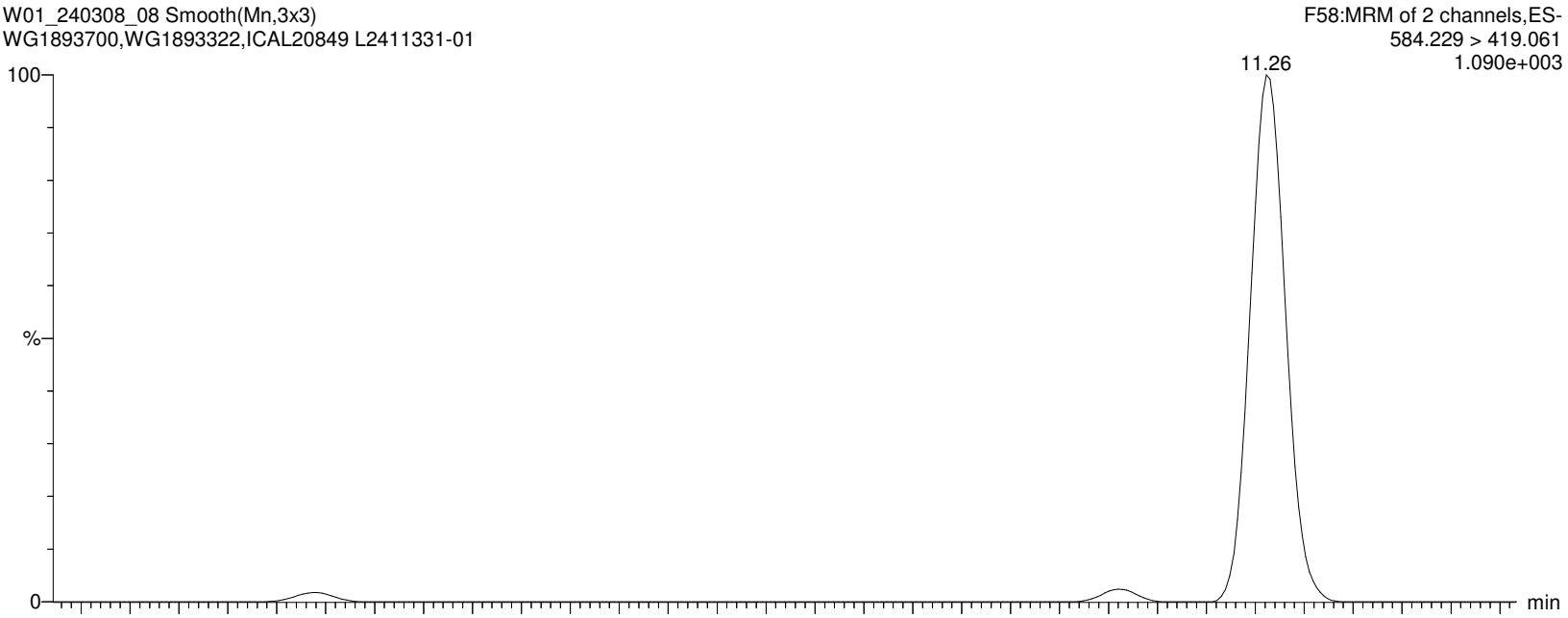

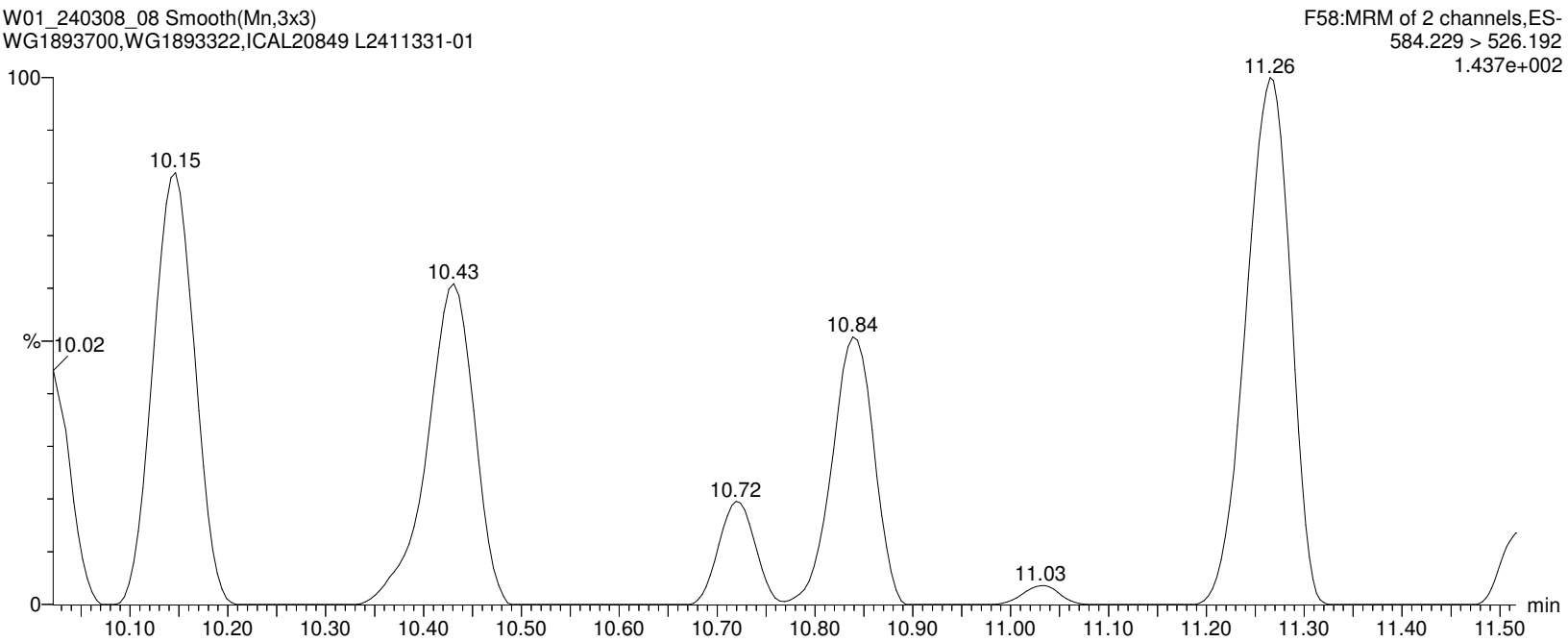

all concentration units in (ng/mL)

Alpha Analytical Inc.
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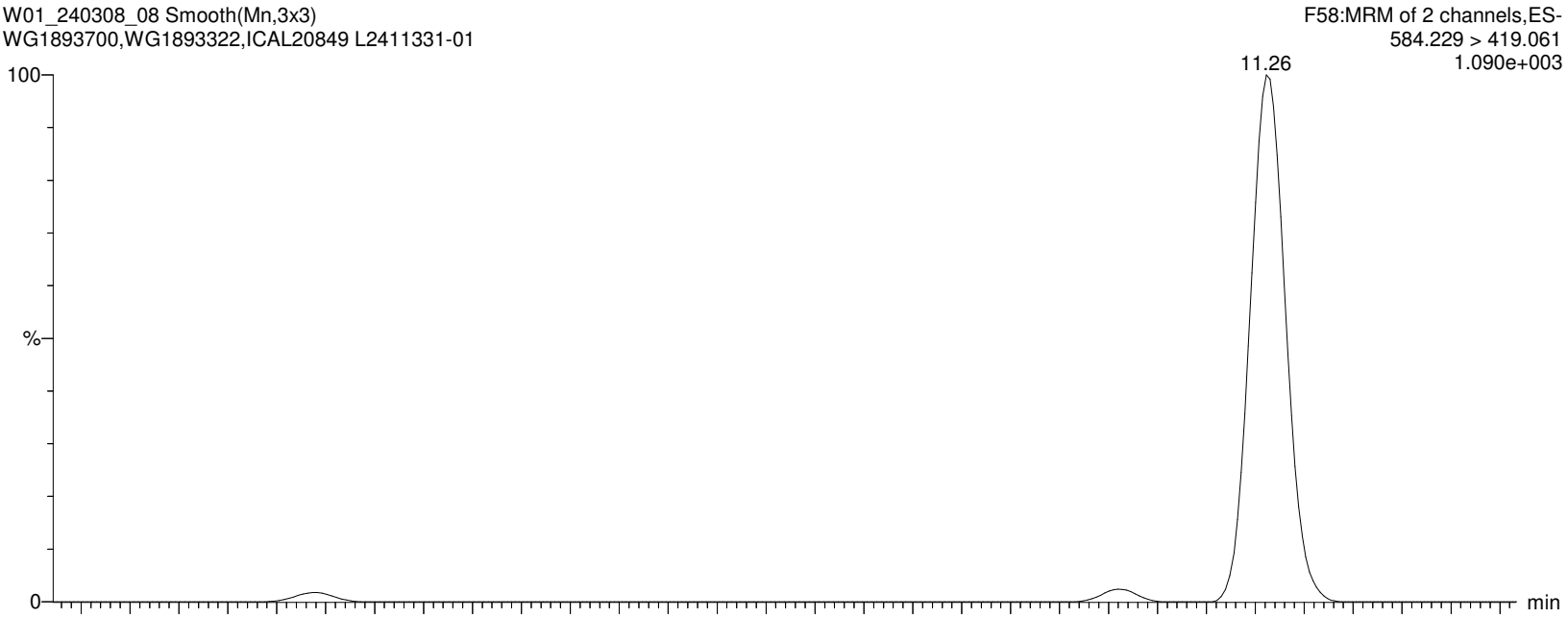

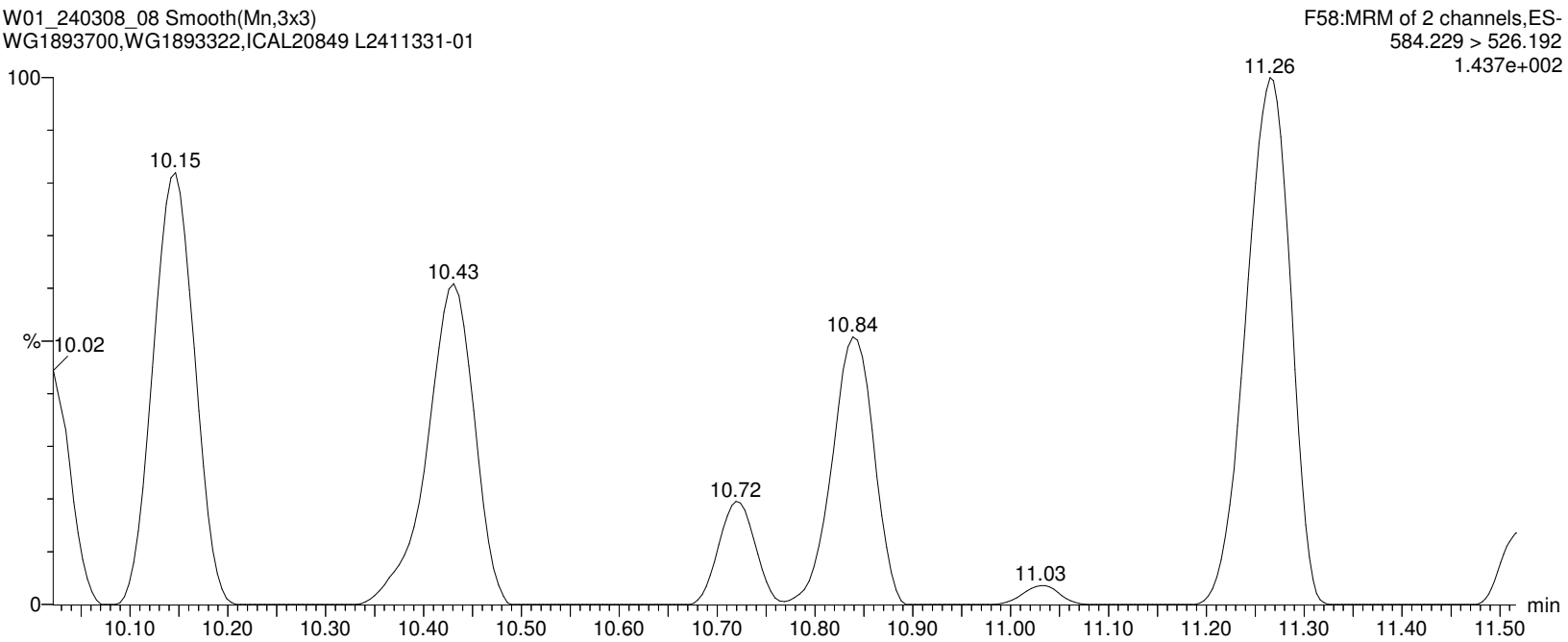

all concentration units in (ng/mL)

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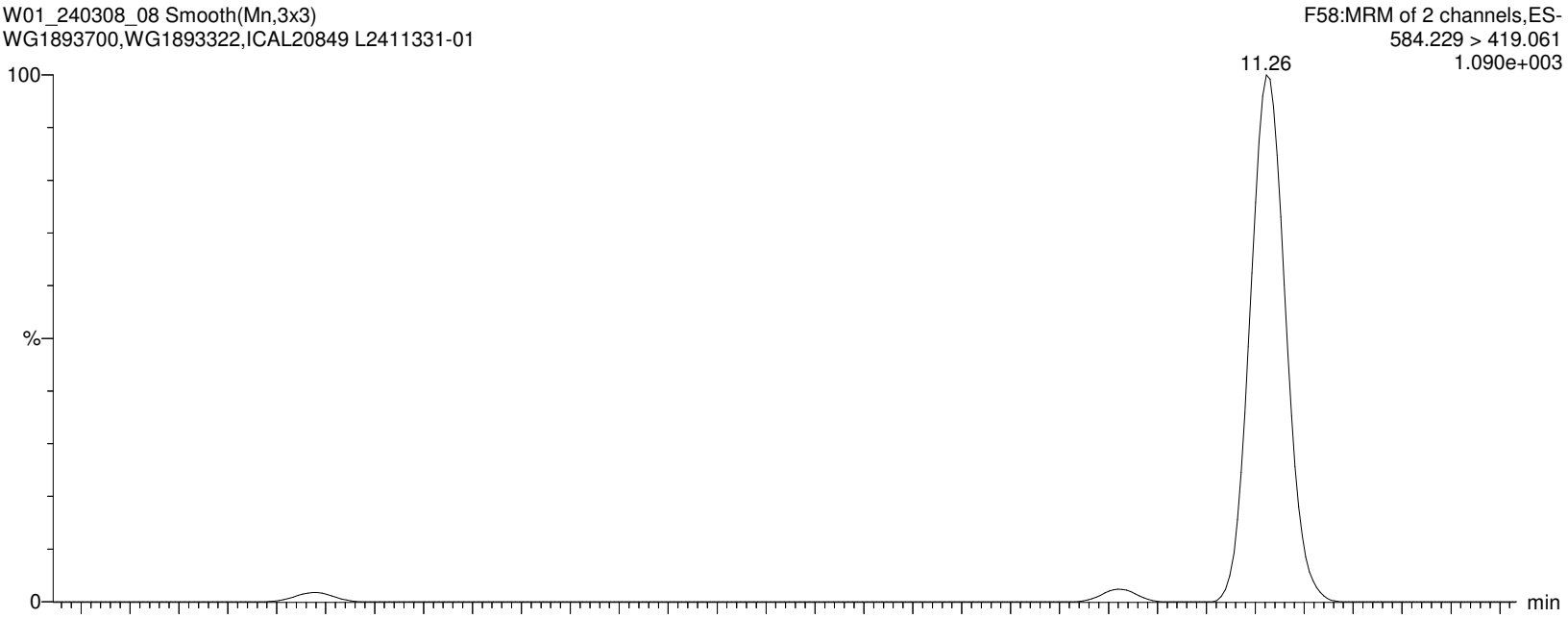

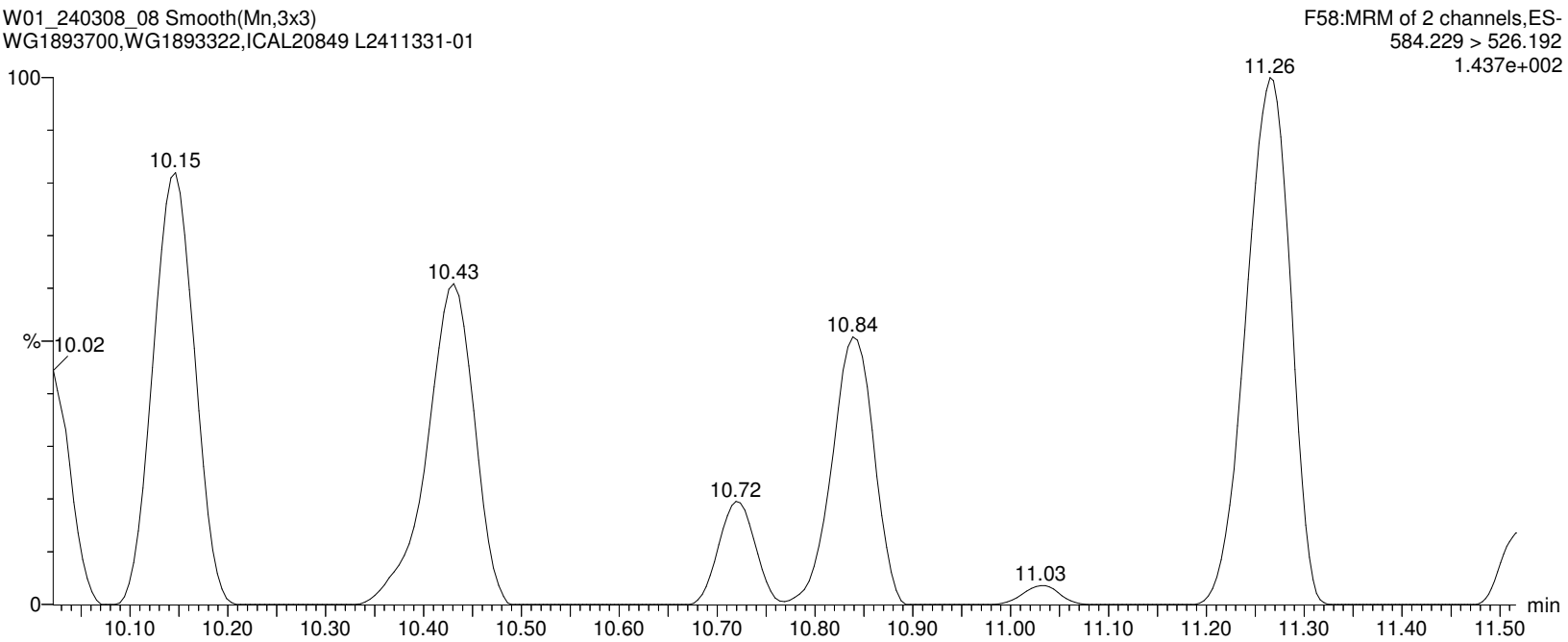

all concentration units in (ng/mL)

Alpha Analytical Inc.
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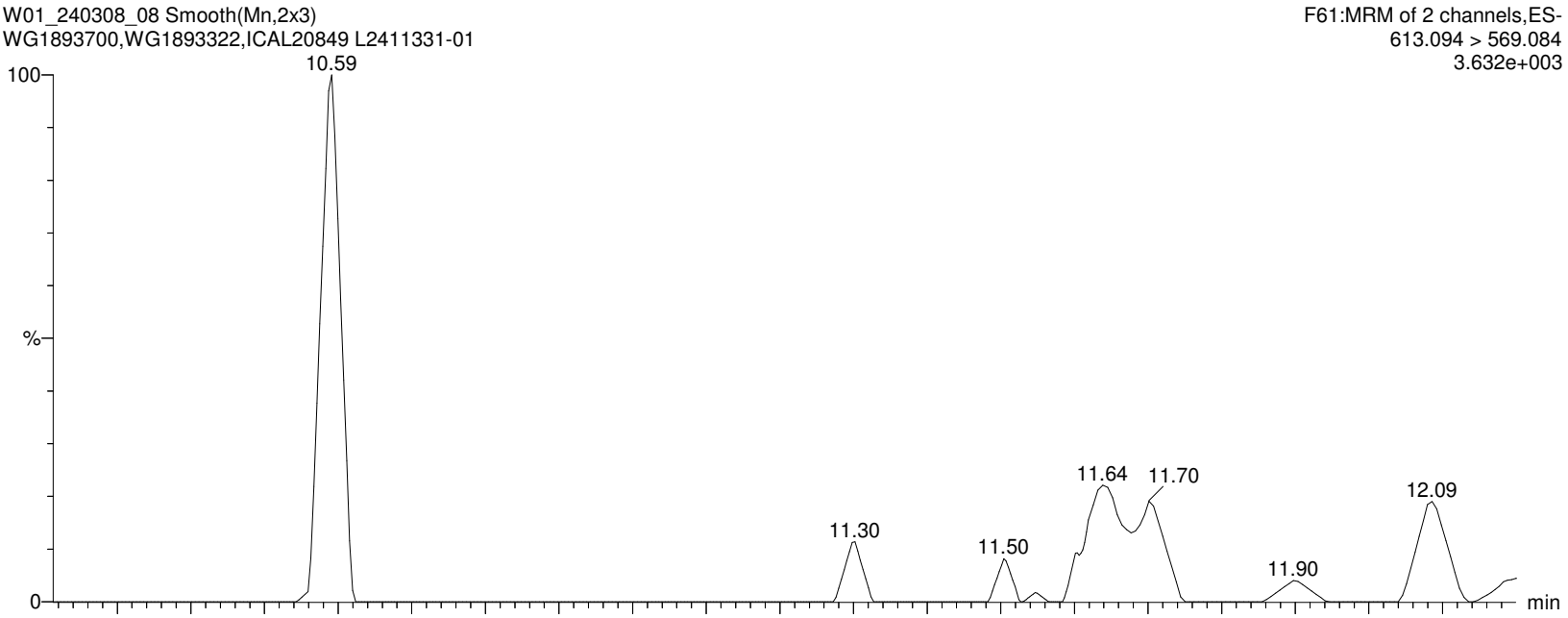

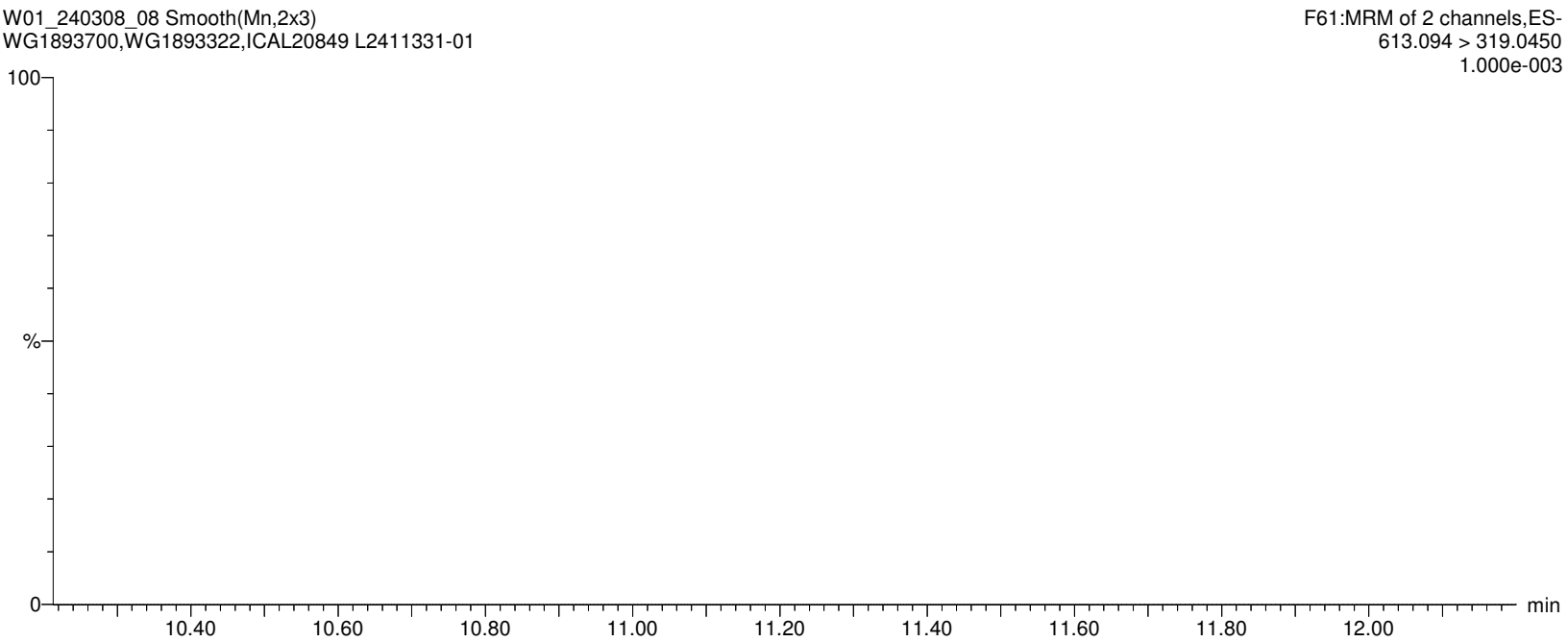

all concentration units in (ng/mL)

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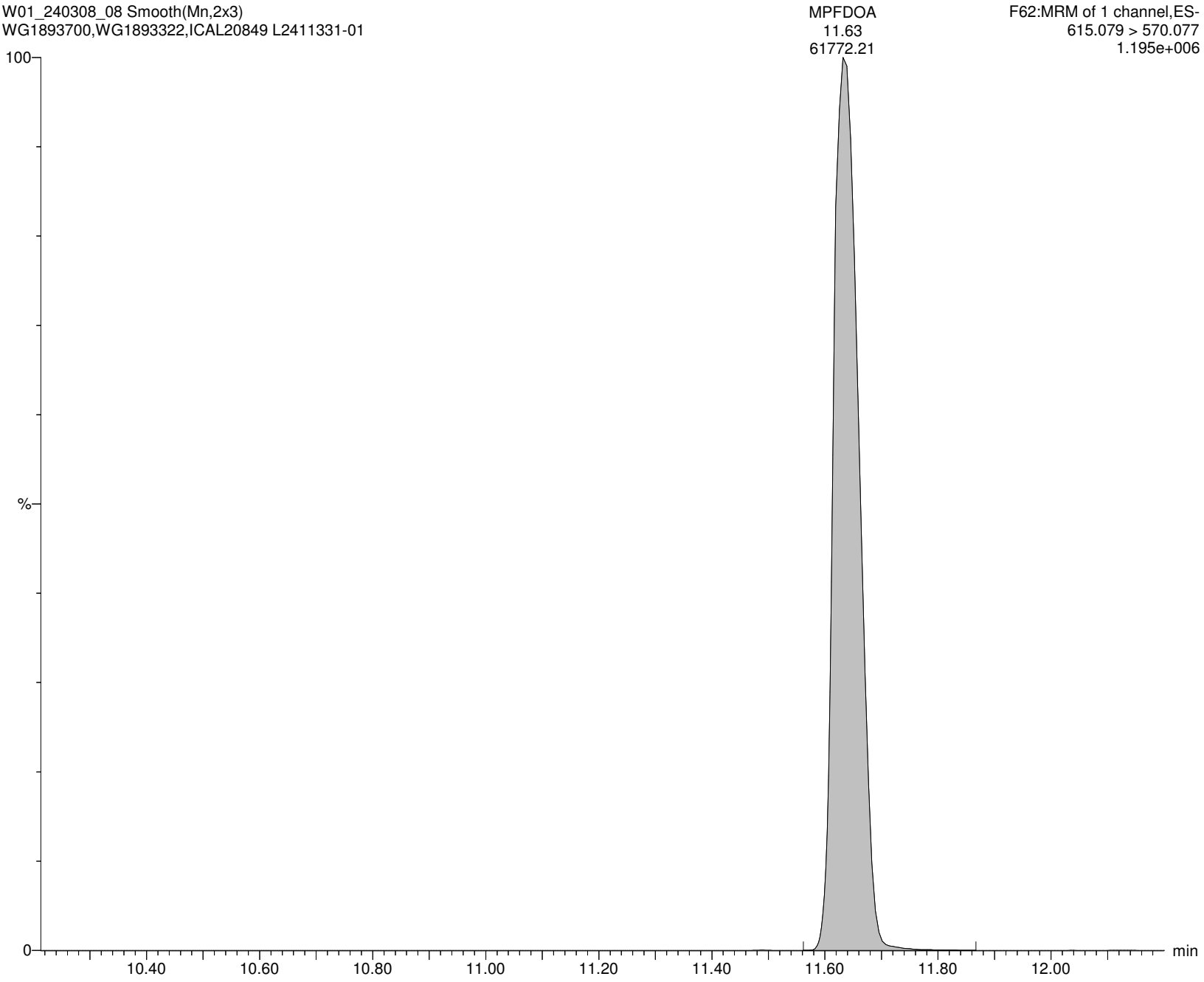

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,3
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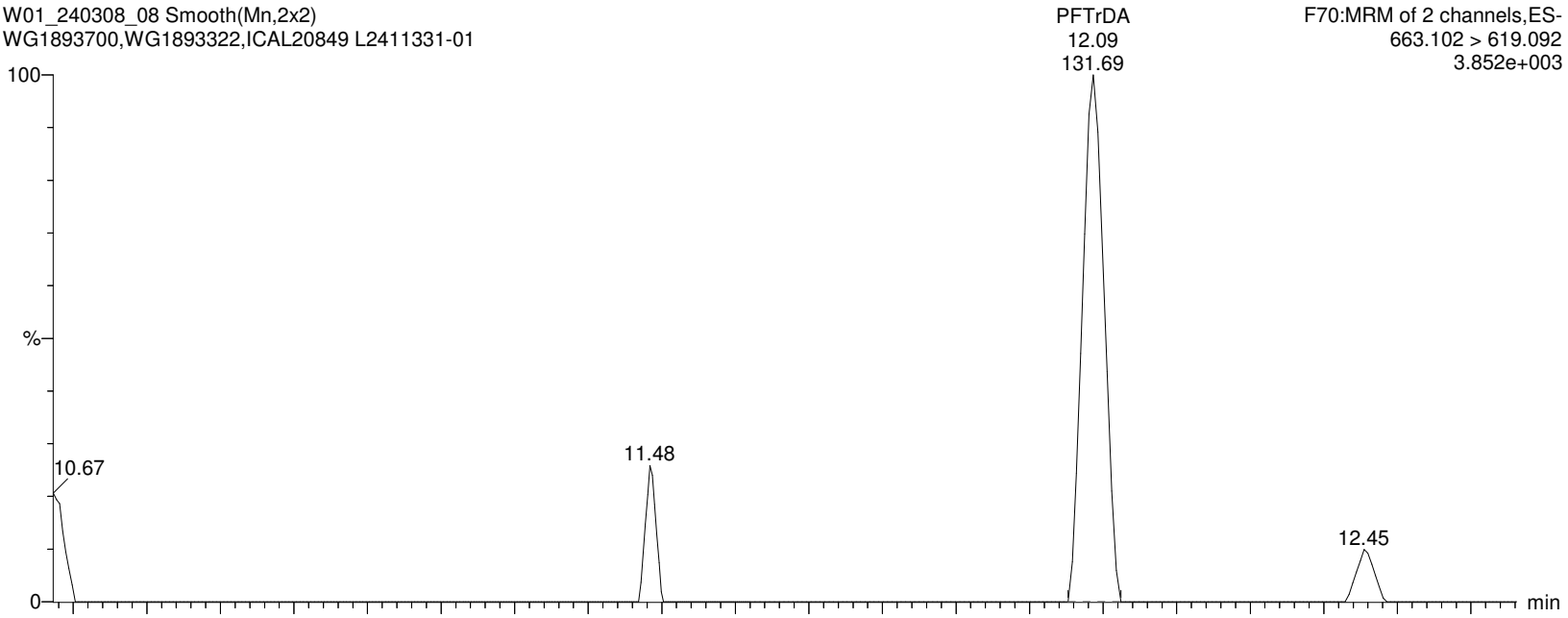

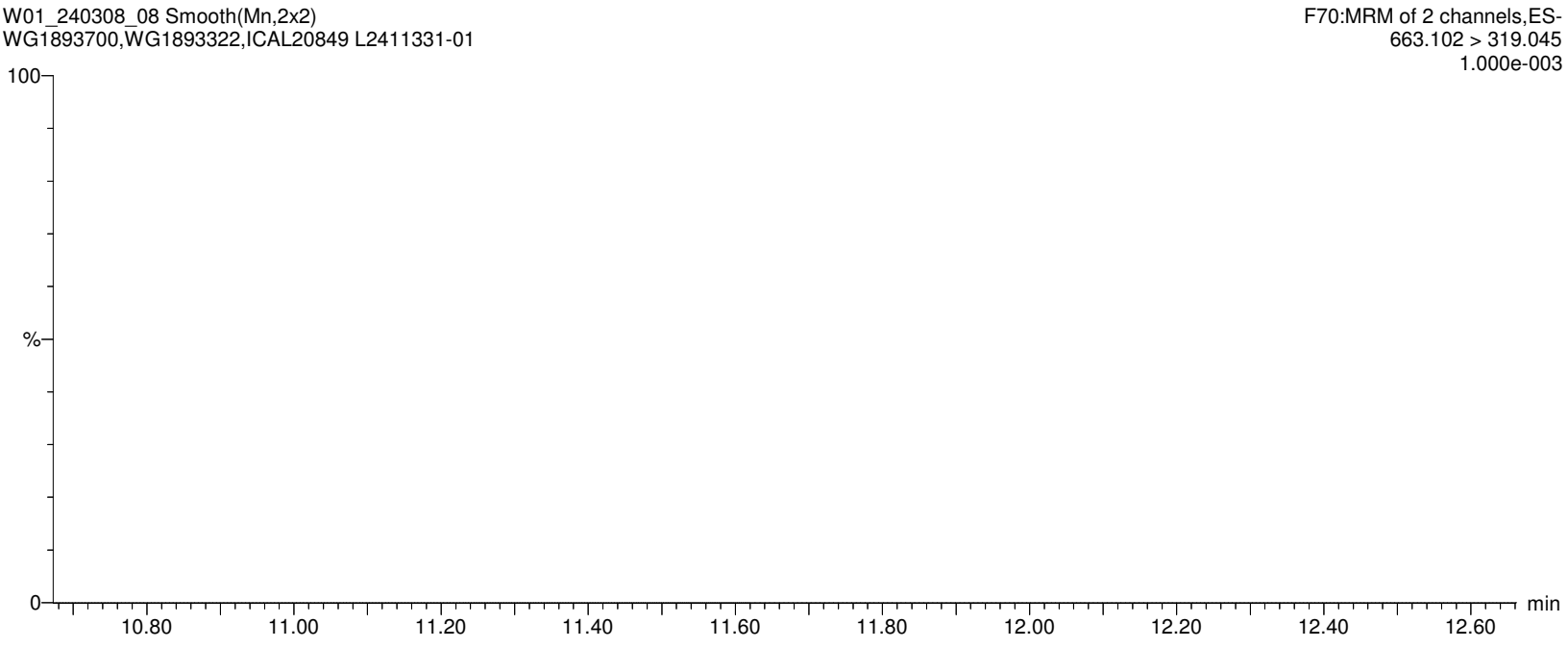

all concentration units in (ng/mL)

Alpha Analytical Inc.
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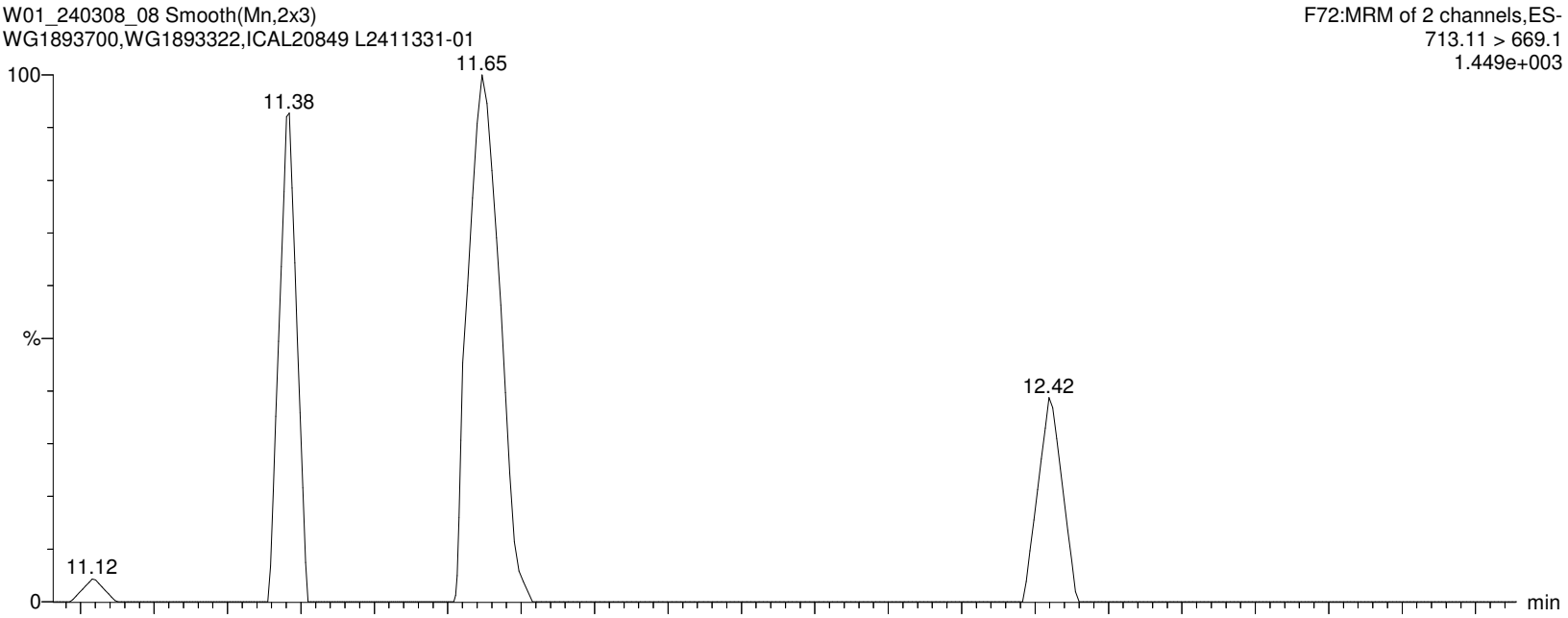

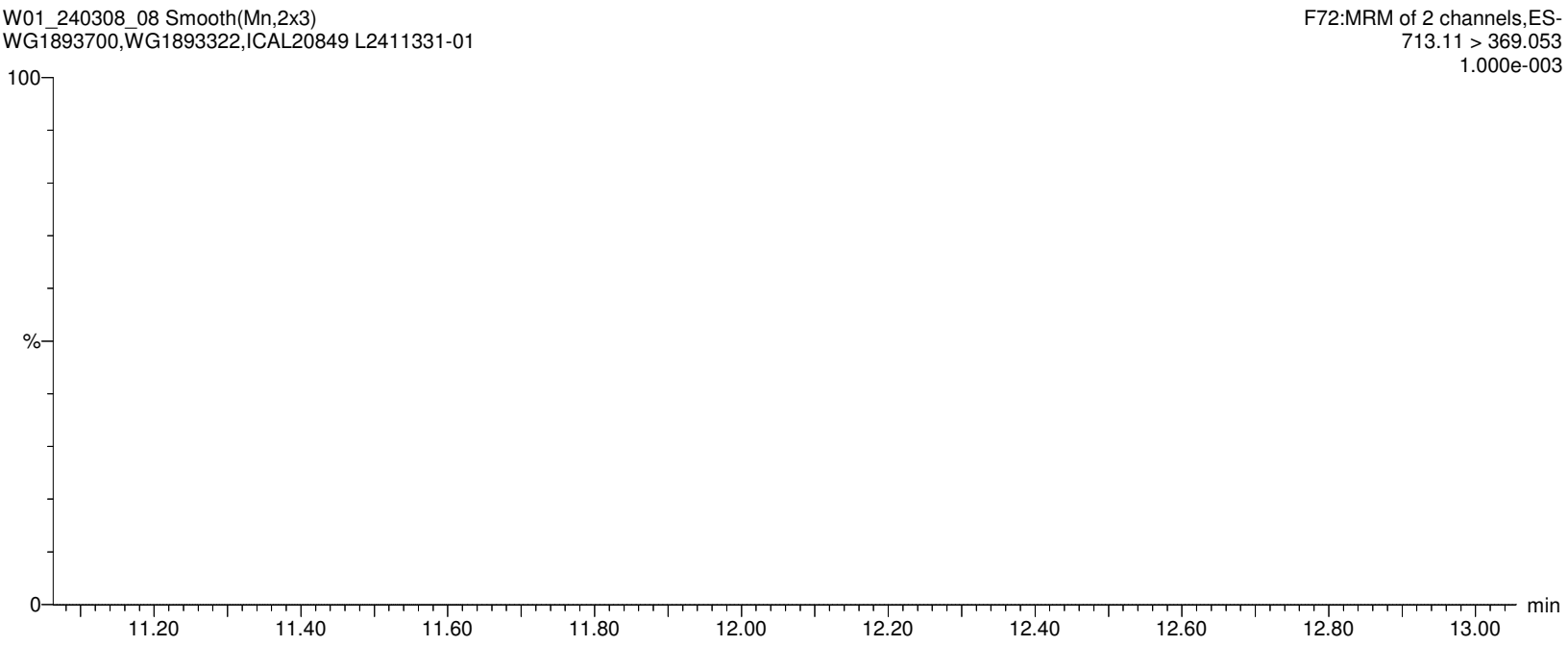

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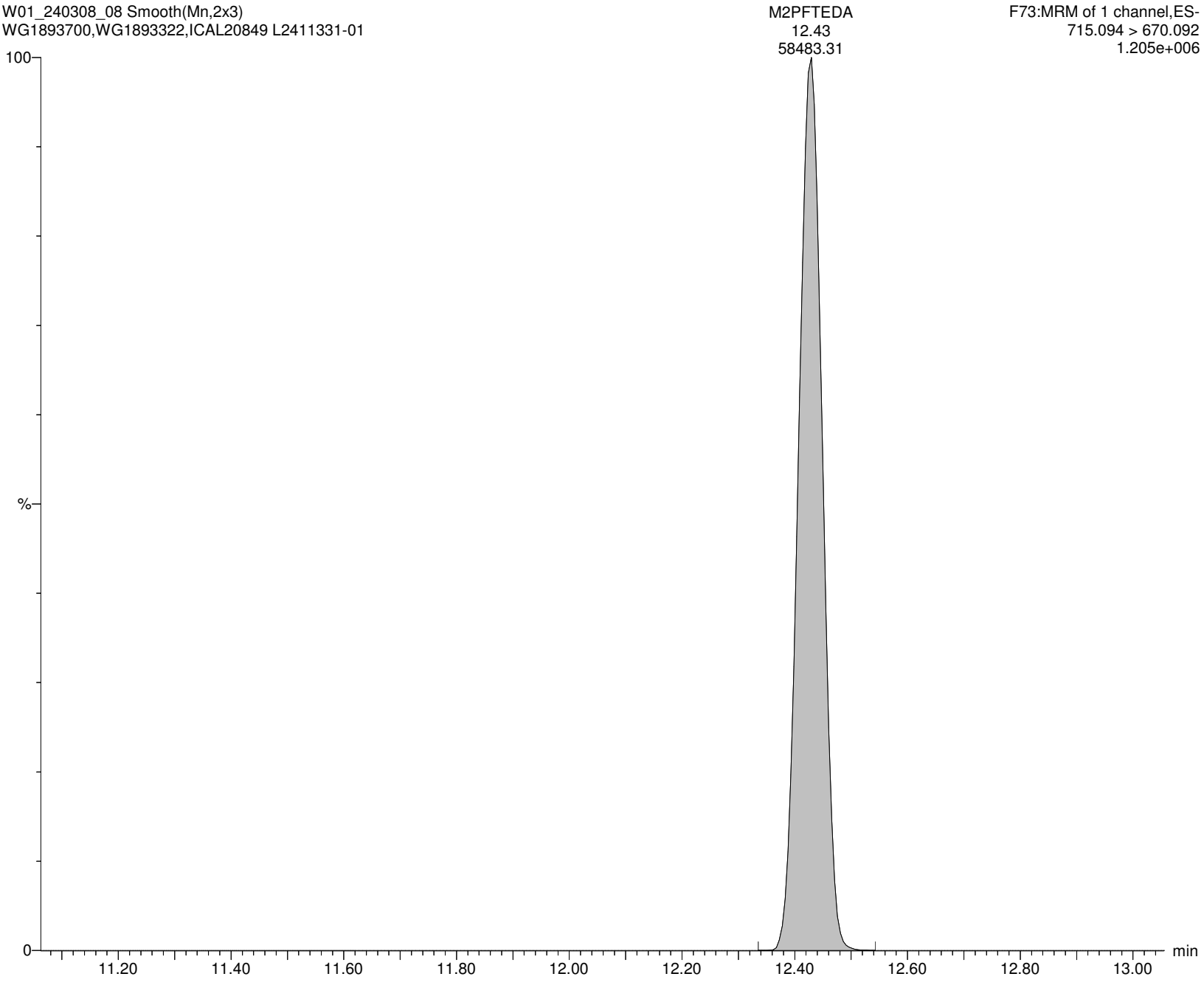

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 15:07:38 Eastern Standard Time

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Date: 08-Mar-2024
Time: 07:16:12
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User: LCMS01:AC
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	10466		2.993		na	
2	M3PFBA	INT STD	2.23	216.009 > 171.999	36806		4.799		na	48.0
3	MPFBA	INT STD	2.23	217.001 > 171.999	38613		9.220		na	92.2
4	PFPeA	2706-90-3	5.14	263.039 > 219.03	4742		2.163		na	
5	M5PFPEA	INT STD	5.13	268.001 > 222.999	21685		4.959		na	49.6
6	PFBS	375-73-5	5.78	299.092 > 80.062	515	M4,M7	0.555	2.26	NO	
7	M3PFBS	INT STD	5.78	302.069 > 80.062	8371		7.304		na	78.4
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	4734		14.019		na	149.5
10	PFHxA	307-24-4	7.01	313.047 > 269.037	6144		2.564	11.84	NO	
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	25231		7.090		na	70.9
12	PFPeS	2706-91-4	7.31	349.1 > 80.062	85	M4	0.076	1.28	NO	
13	PFHpA	375-85-9	8.26	363.055 > 319.045	5949		2.146	5.02	NO	
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	27594		7.287		na	72.9
15	br-PFHxS	355-46-4	8.12	399.107 > 80.062	206	M5,M7	0.194	4.83	YES	
16	L-PFHxS	355-46-4	8.41	399.107 > 80.062	693		0.621	1.29	NO	
17	PFHxS	355-46-4		399.107 > 80.062	899		0.815		na	
18	M3PFHxS	INT STD	8.41	402.084 > 80.062	9710		8.808		na	92.9
19	br-PFOA	335-67-1	8.97	413.063 > 369.053	849		0.218	1.36	NO	
20	L-PFOA	335-67-1	9.20	413.063 > 369.053	24001		6.164	9.29	NO	
21	PFOA	335-67-1		413.063 > 369.053	24849		6.381		na	
22	M8PFOA	INT STD	9.20	421.002 > 376.	37875		9.206		na	92.1
23	M2PFOA	INT STD	9.20	415.048 > 370.045	40650		2.738		na	27.4
24	6:2FTS	27619-97-2	9.15	427.161 > 407.155	144	M7	0.218	7.69	YES	
25	M2-6:2FTS	INT STD	9.16	429.146 > 409.14	7217		18.599		na	195.6
26	PFHpS	375-92-8	9.29	449.115 > 80.062	214	M4	0.210	2.53	YES	
27	PFNA	375-95-1	9.96	463.071 > 419.061	4690		1.097	6.49	NO	
28	M9PFNA	INT STD	9.96	472.002 > 427.	42428		9.926		na	99.3
29	br-PFOS	1763-23-1	9.75	499.123 > 80.062	4192		2.938	4.10	NO	
30	L-PFOS	1763-23-1	10.01	499.123 > 80.062	8485	M4,M7	6.870	1.69	NO	
31	PFOS	1763-23-1		499.123 > 80.062	12677		9.808		na	
32	M4PFOS	INT STD	10.01	503.093 > 80.062	12067		3.258		na	33.9
33	M8PFOS	INT STD	10.01	507.062 > 80.062	11034		8.571		na	89.4
34	PFDA	335-76-2	10.60	513.078 > 469.069	5104	M4	1.425	3.81	NO	
35	M2PFDA	INT STD	10.60	515.063 > 470.061	45908		3.422		na	34.2
36	M6PFDA	INT STD	10.60	519.033 > 474.03	36796		8.040		na	80.4
37	8:2FTS	39108-34-4	10.58	527.177 > 507.171	65		0.099	2.40	NO	
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	7533		18.359		na	191.2
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

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ID: L2411331-02
Name: W01_240308_09
Date: 08-Mar-2024
Time: 07:16:12
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
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Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	7947		11.304		na	113.0
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	72	M5,M7	0.306	1.17	NO	
42	L-NMeFOSAA	2355-31-9	10.97	570.202 > 419.061	446		0.816	2.44	NO	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	517		1.123		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	729		0.153	15.62	YES	
45	M7-PFUDA	INT STD	11.15	570.033 > 525.031	46008		9.226		na	92.3
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6	10.92	498.146 > 78.07	743		0.614		YES	
48	M8FOSA	INT STD	10.92	506.077 > 78.07	10941		3.251		na	32.5
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	7097		10.712		na	107.1
50	br-NEtFOSAA	2991-50-6	11.01	584.229 > 419.061	83	M5,M7	0.308	0.84	NO	
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	395		0.690	1.37	NO	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	478		0.998		na	
53	PFDoA	307-55-1	11.64	613.094 > 569.084	624	M4,M7	0.129	32.50	YES	
54	MPFDOA	INT STD	11.64	615.079 > 570.077	44580		7.965		na	79.7
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.43	715.094 > 670.092	51733		10.249		na	102.5

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Name: W01_240308_09
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User: LCMS01:AC
Vial: 1:B,4
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PFBA

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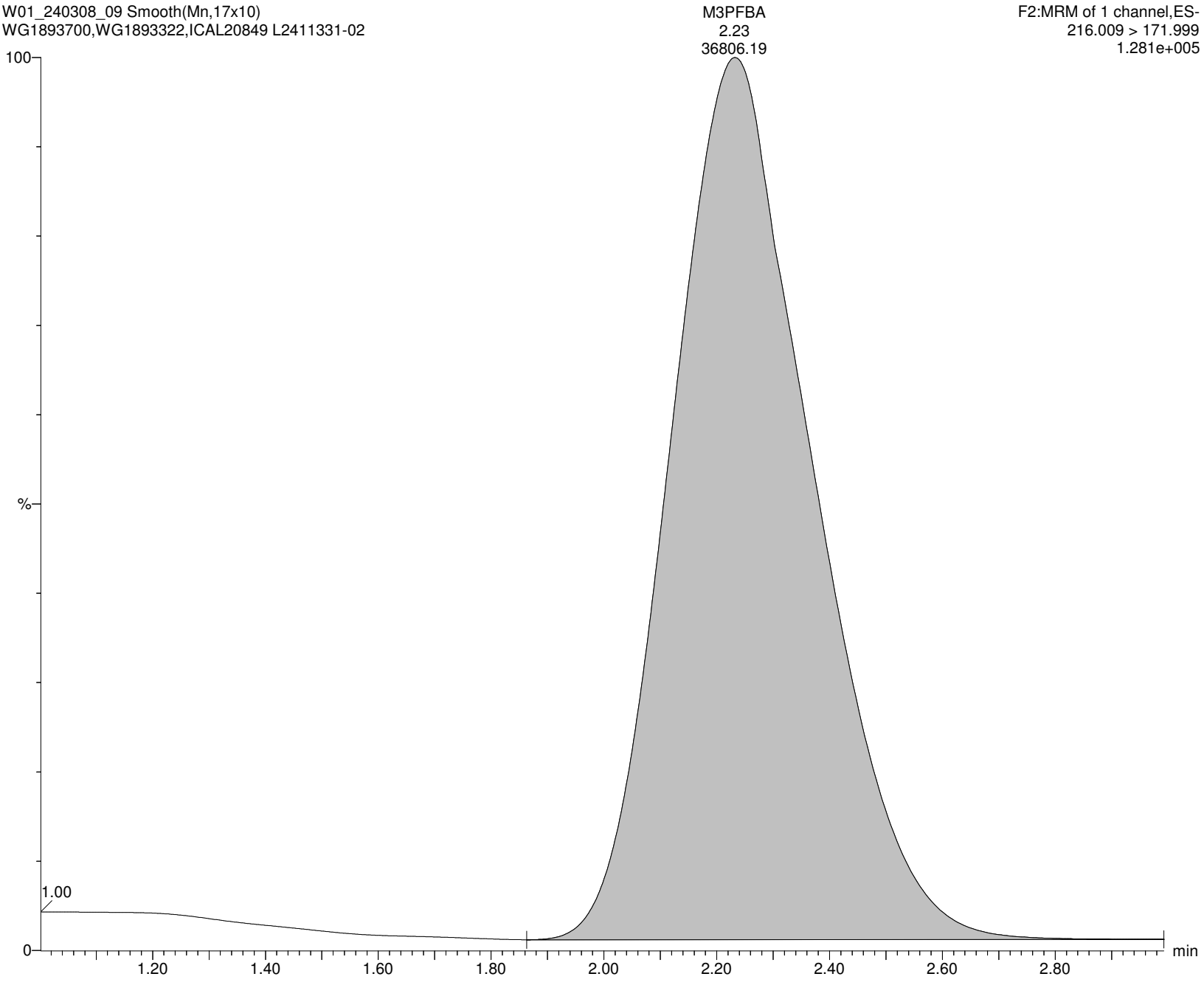
M3PFBA



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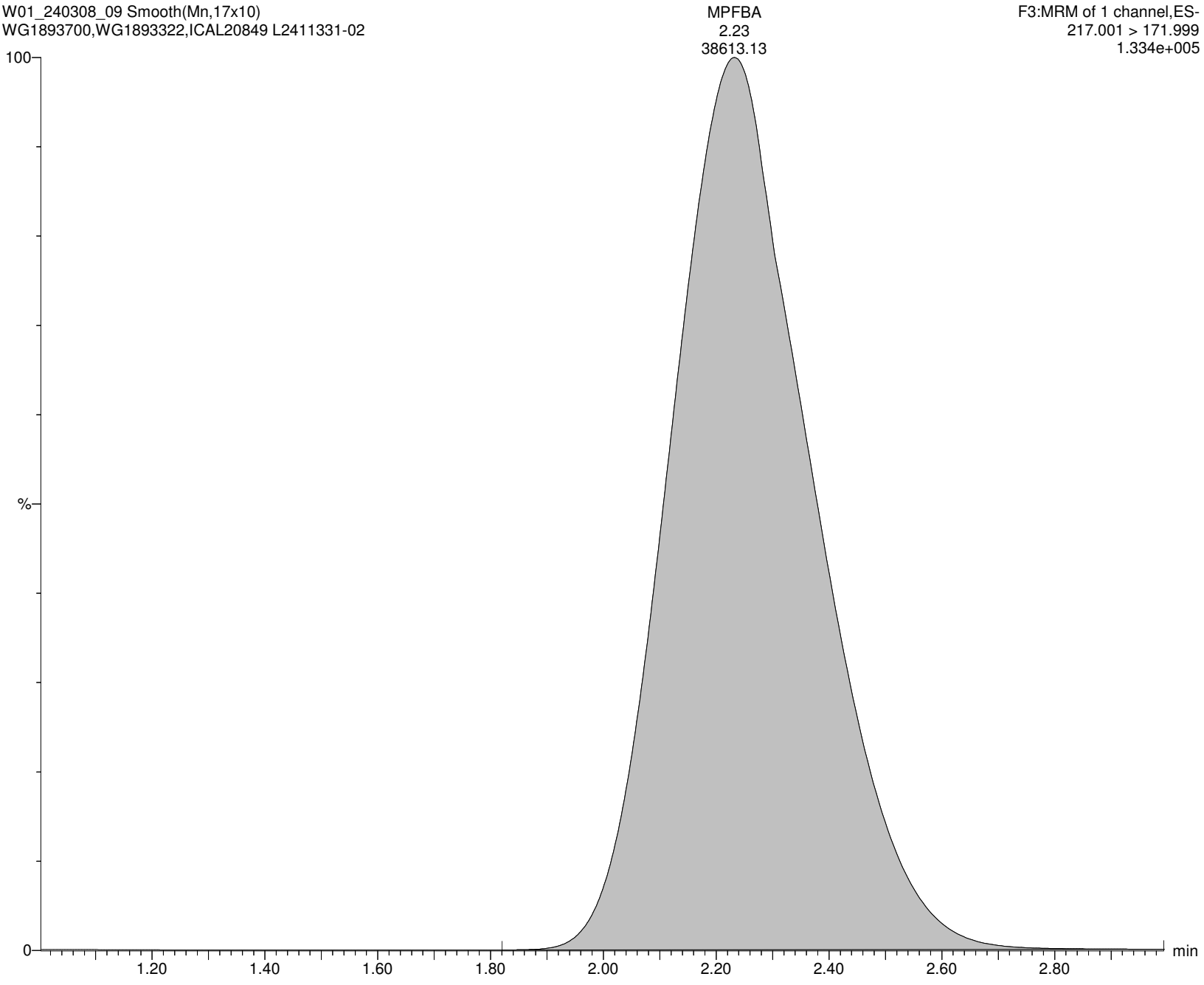
MPFBA



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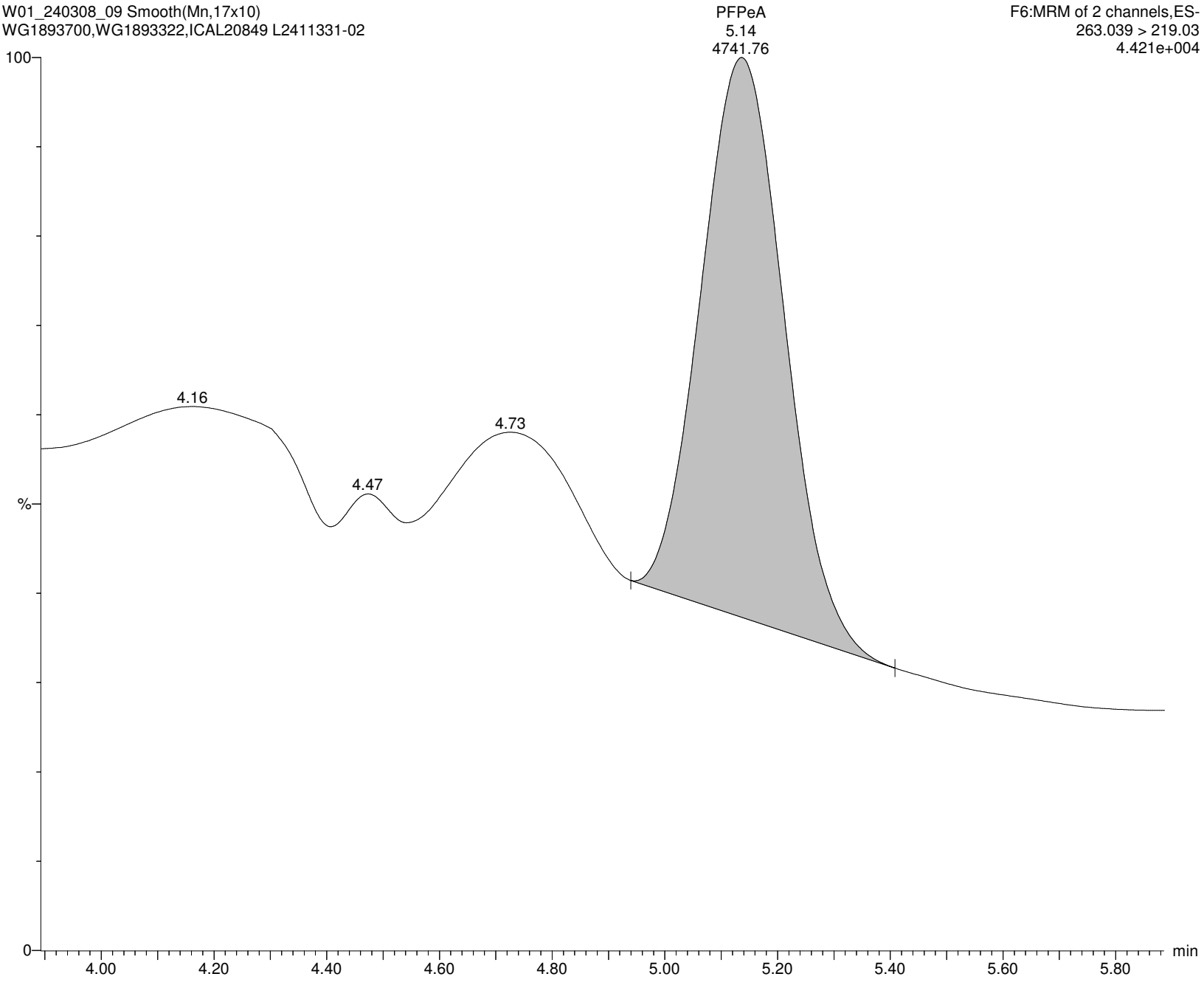

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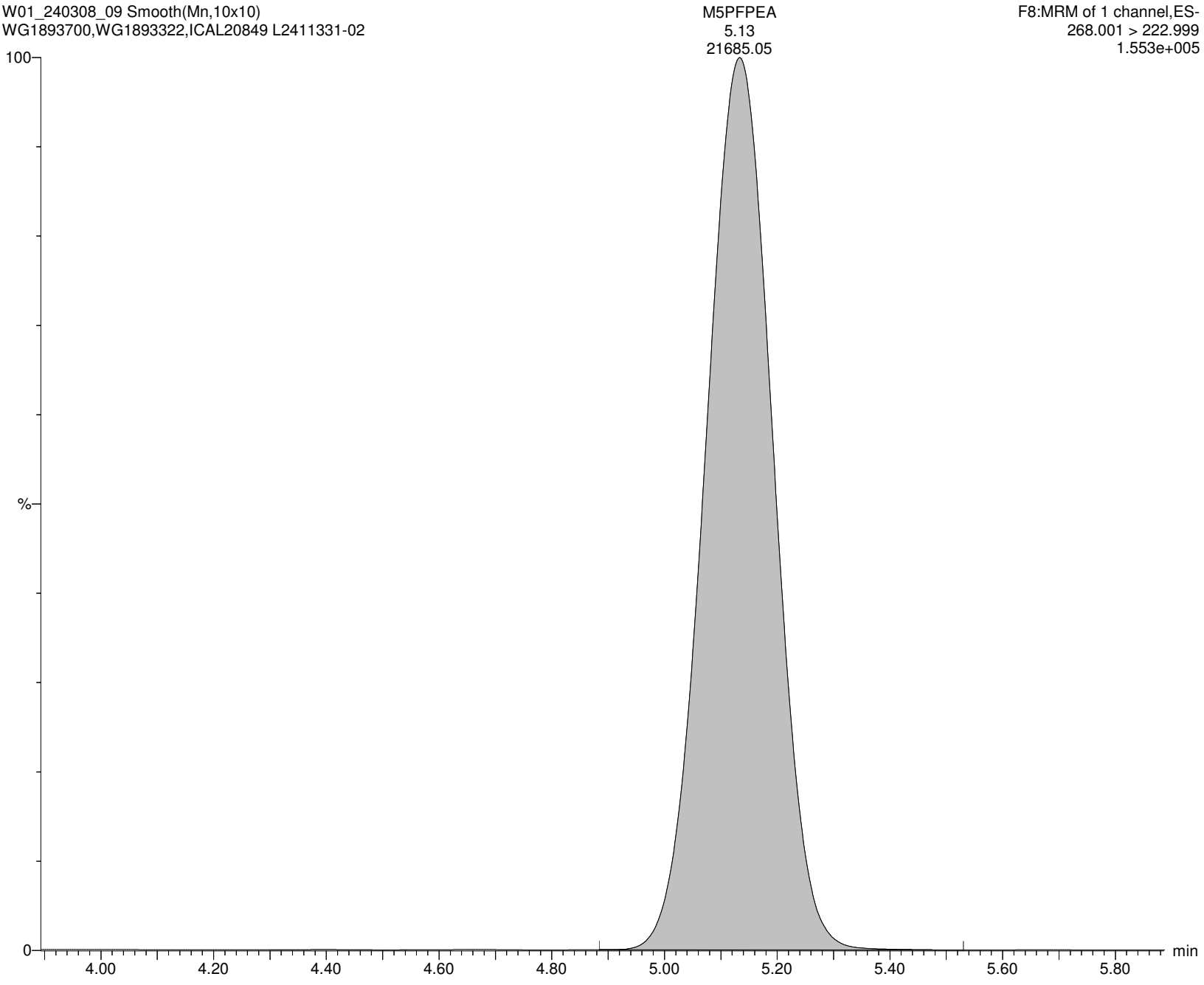
M5PFPEA



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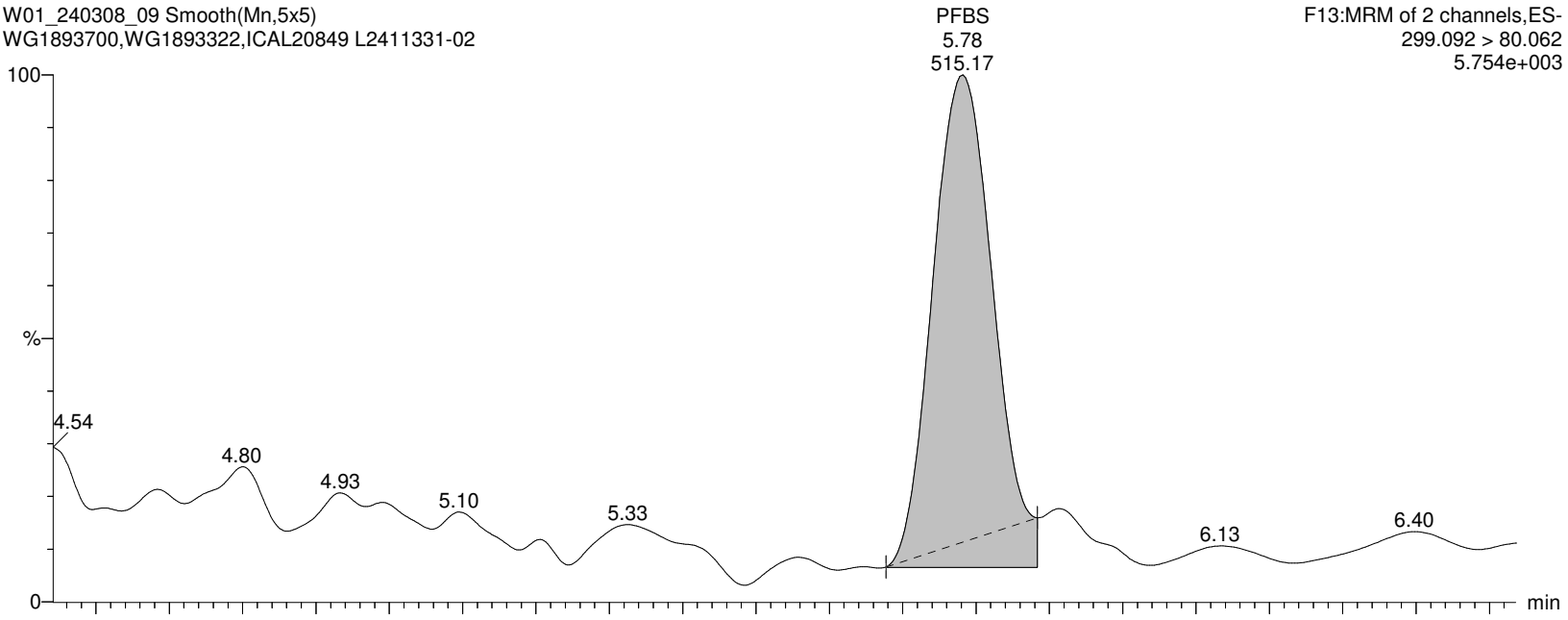
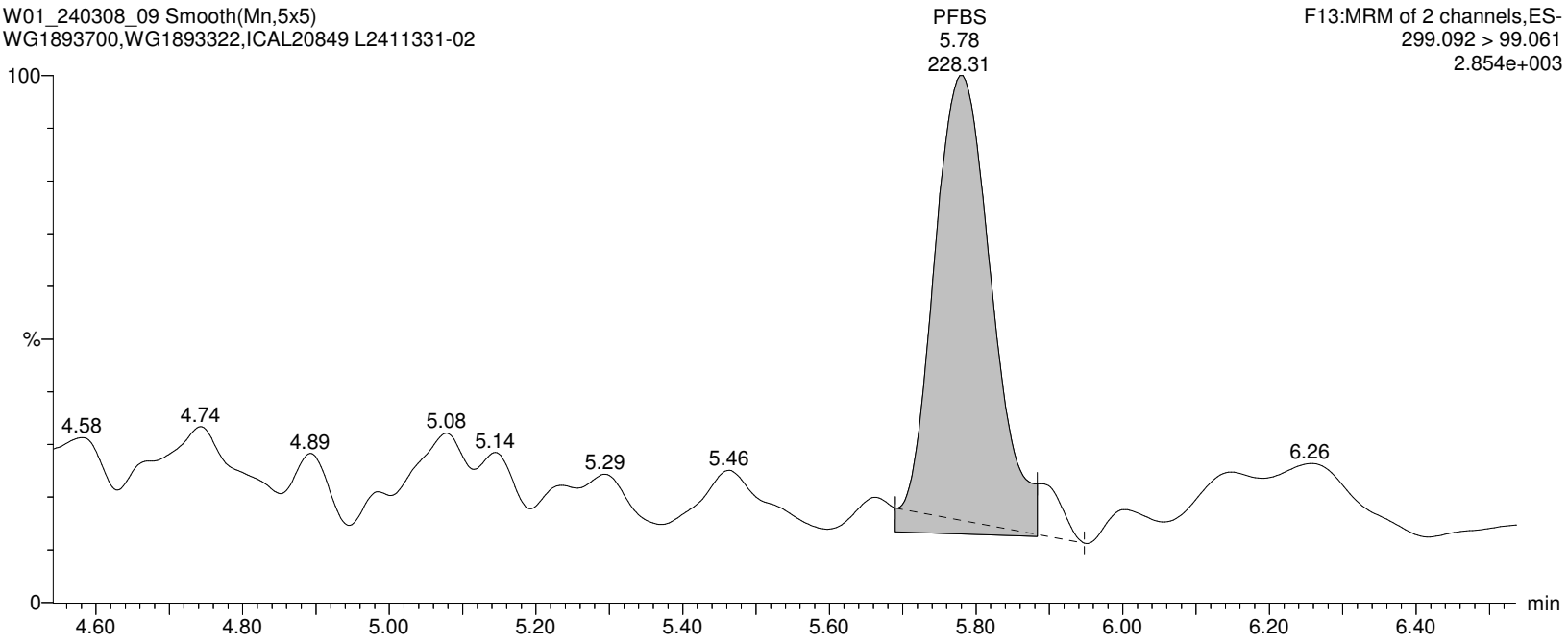
PFBS





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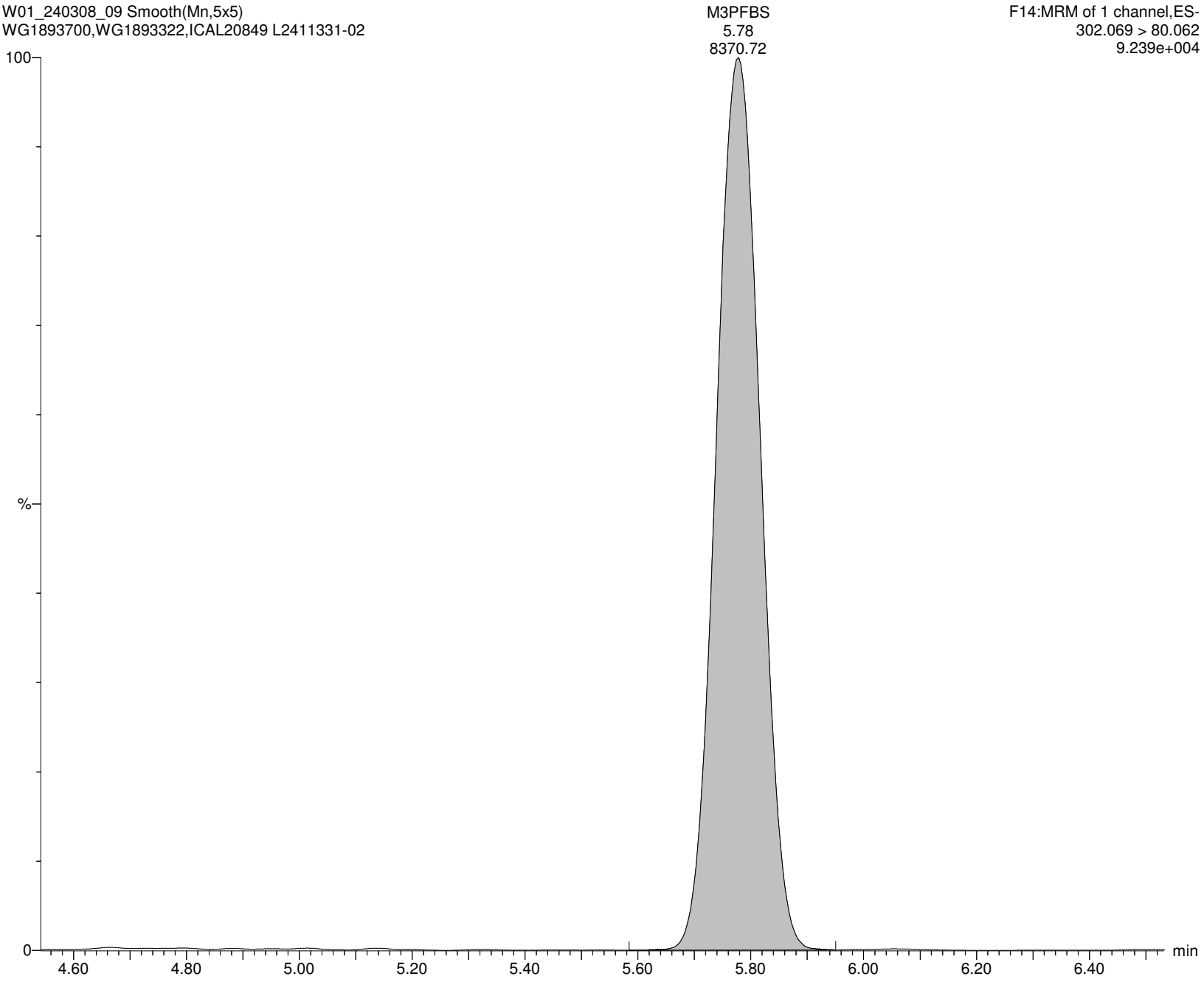
M3PFBS



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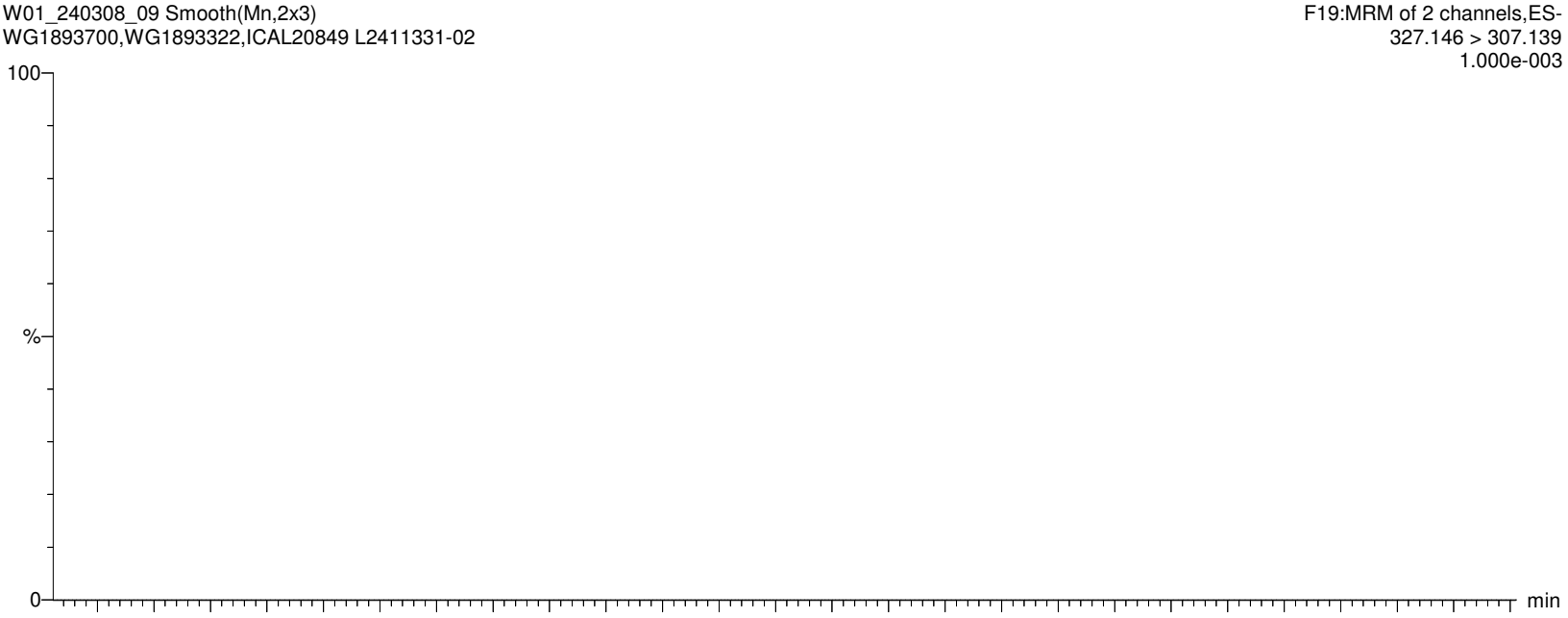
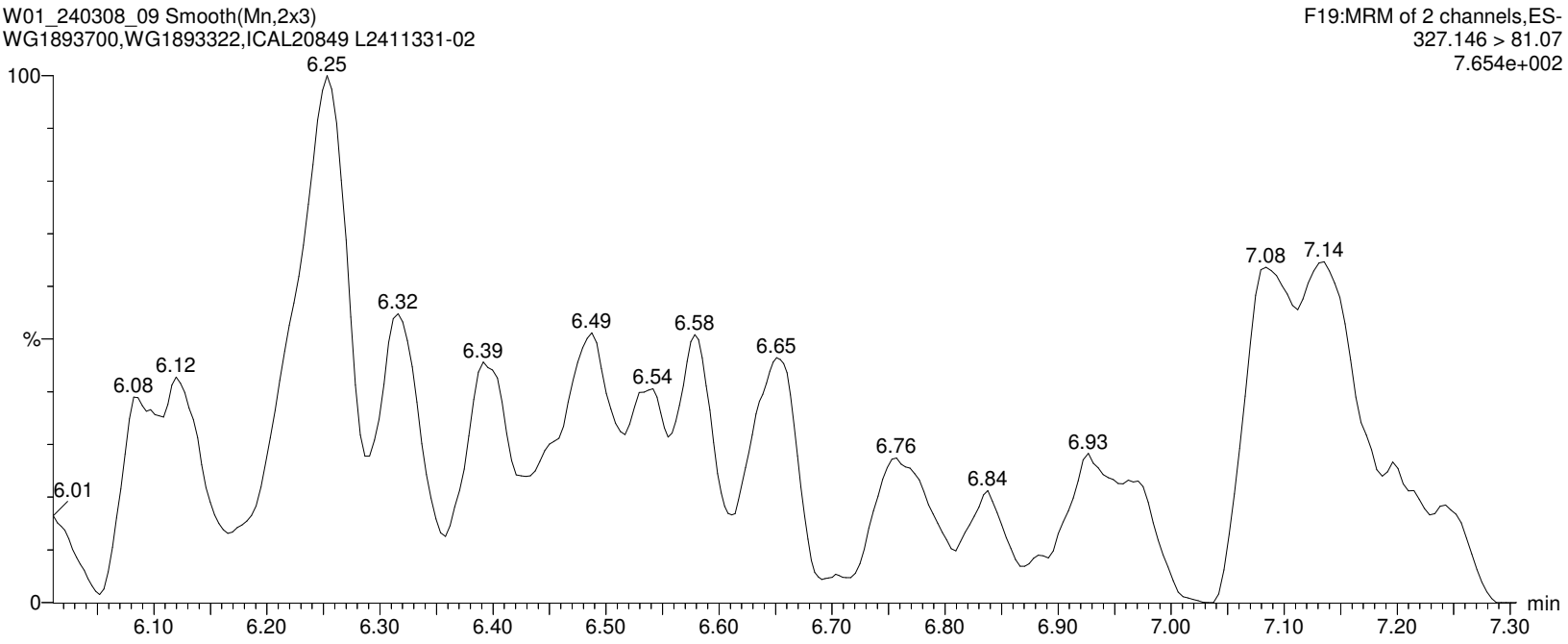
4:2FTS





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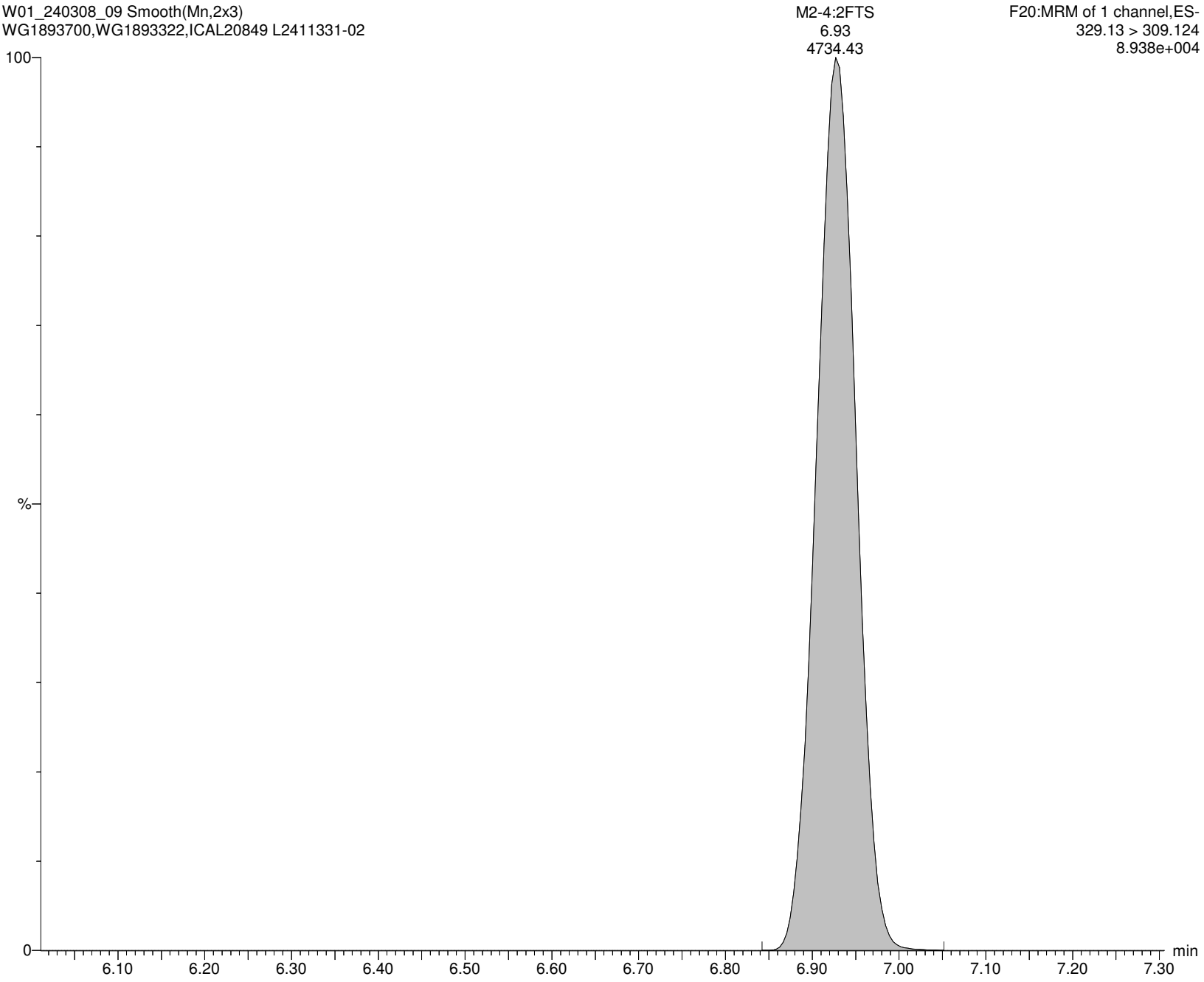

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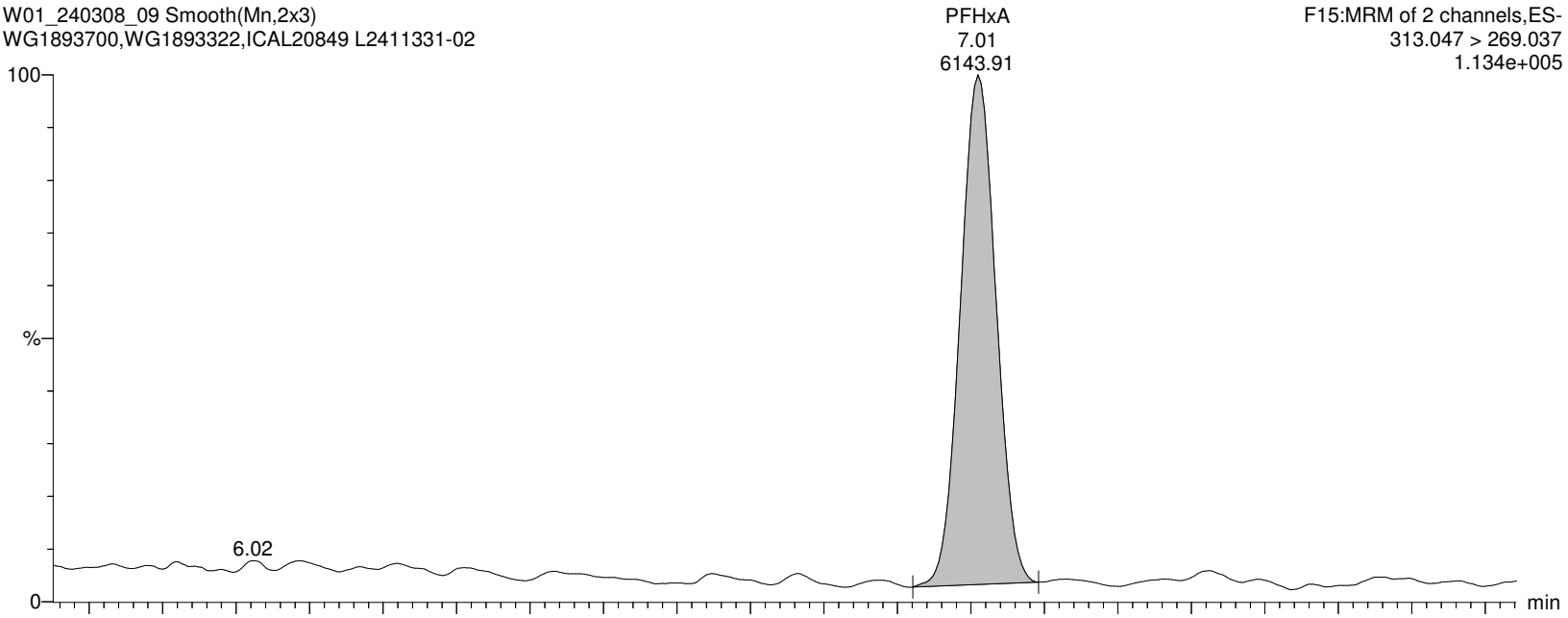
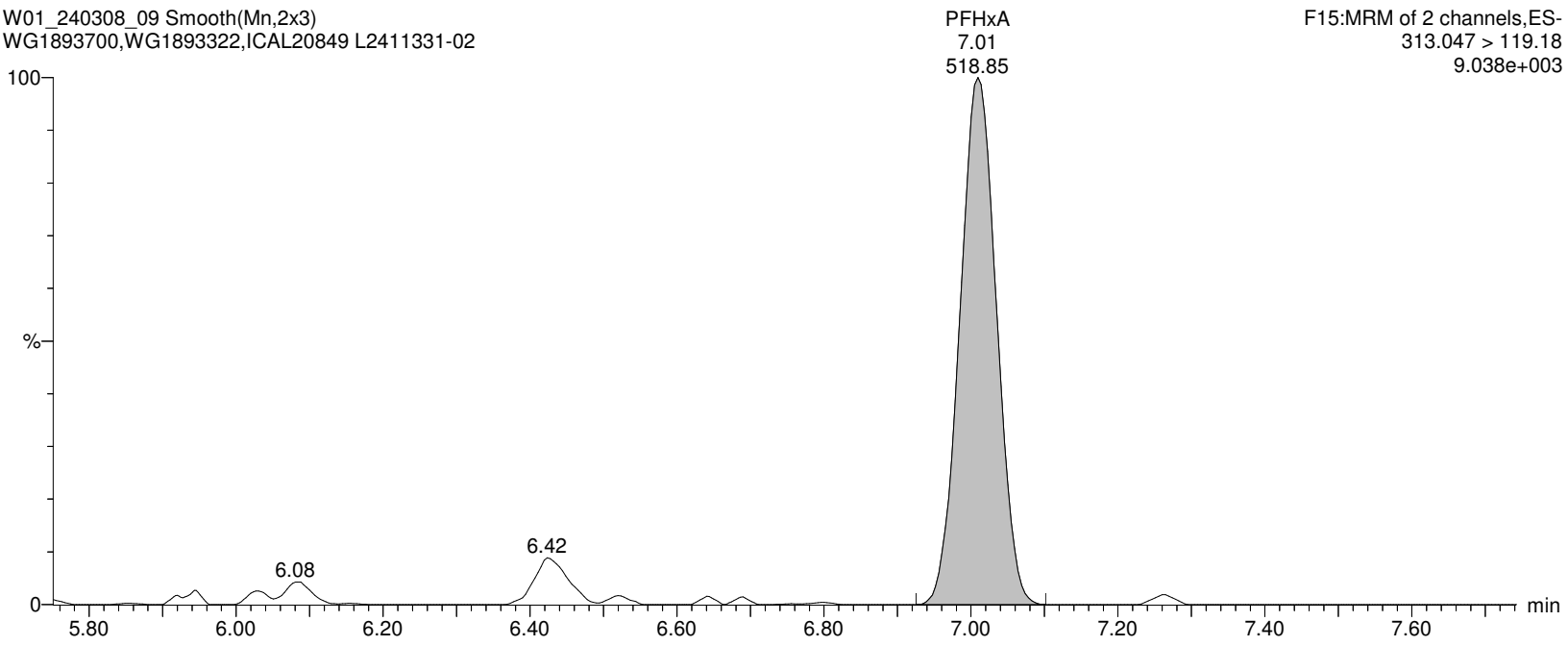
PFHxA





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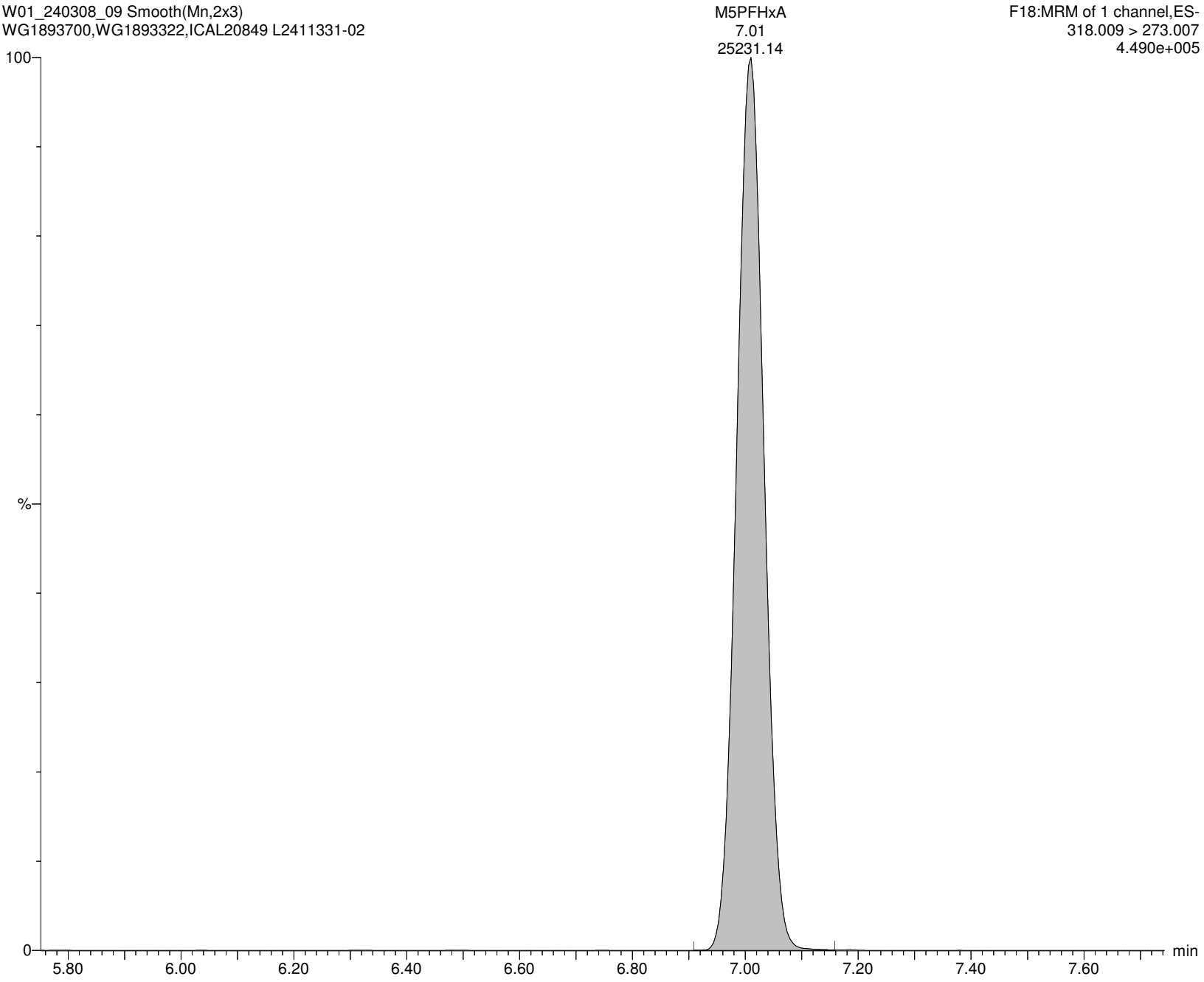
M5PFHxA



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Alpha Analytical Inc.
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Name: W01_240308_09
ID: L2411331-02
Date: 08-Mar-2024
Time: 07:16:12
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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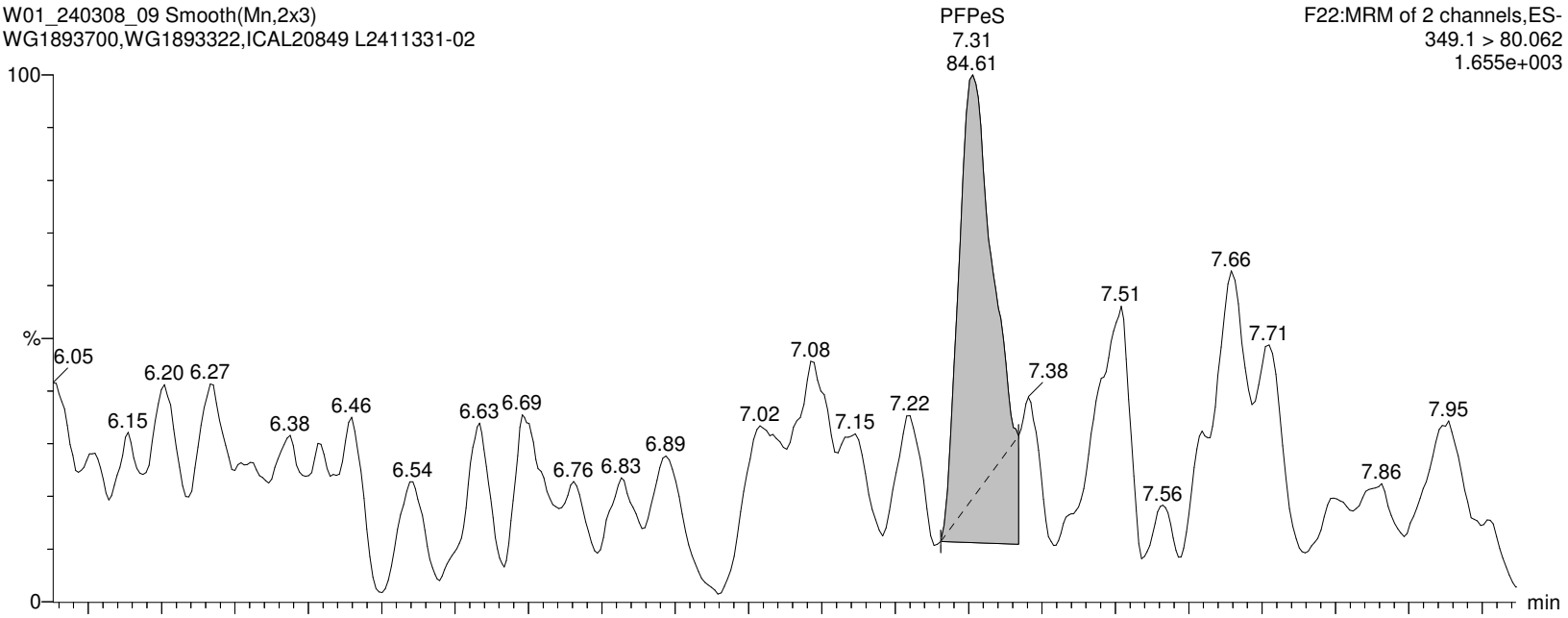

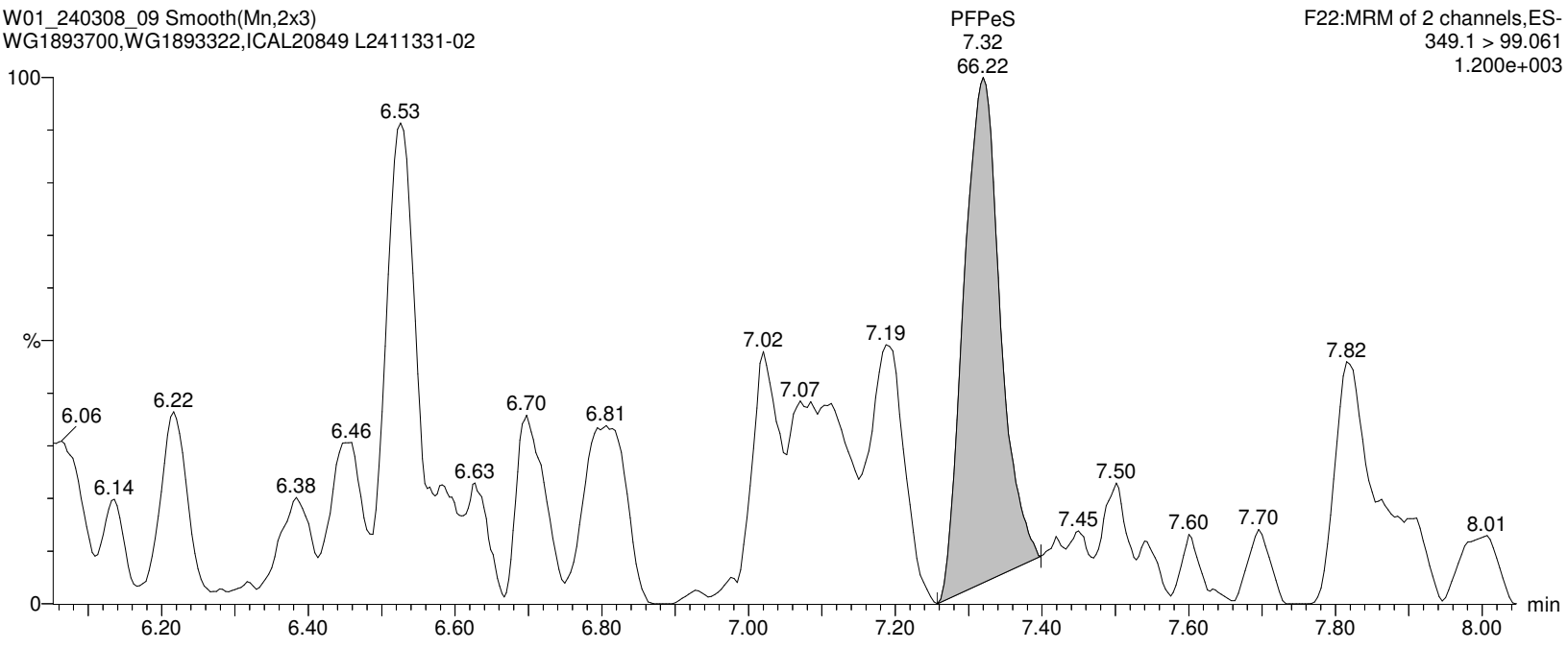

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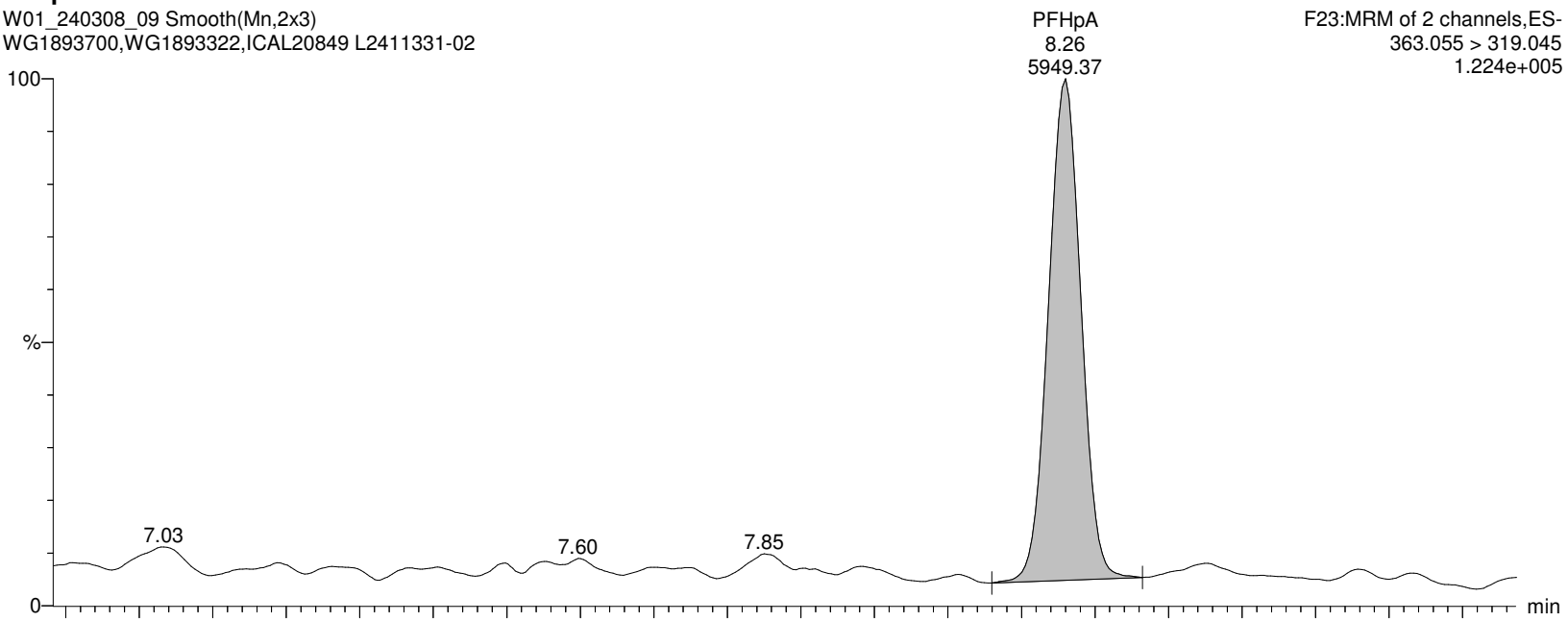

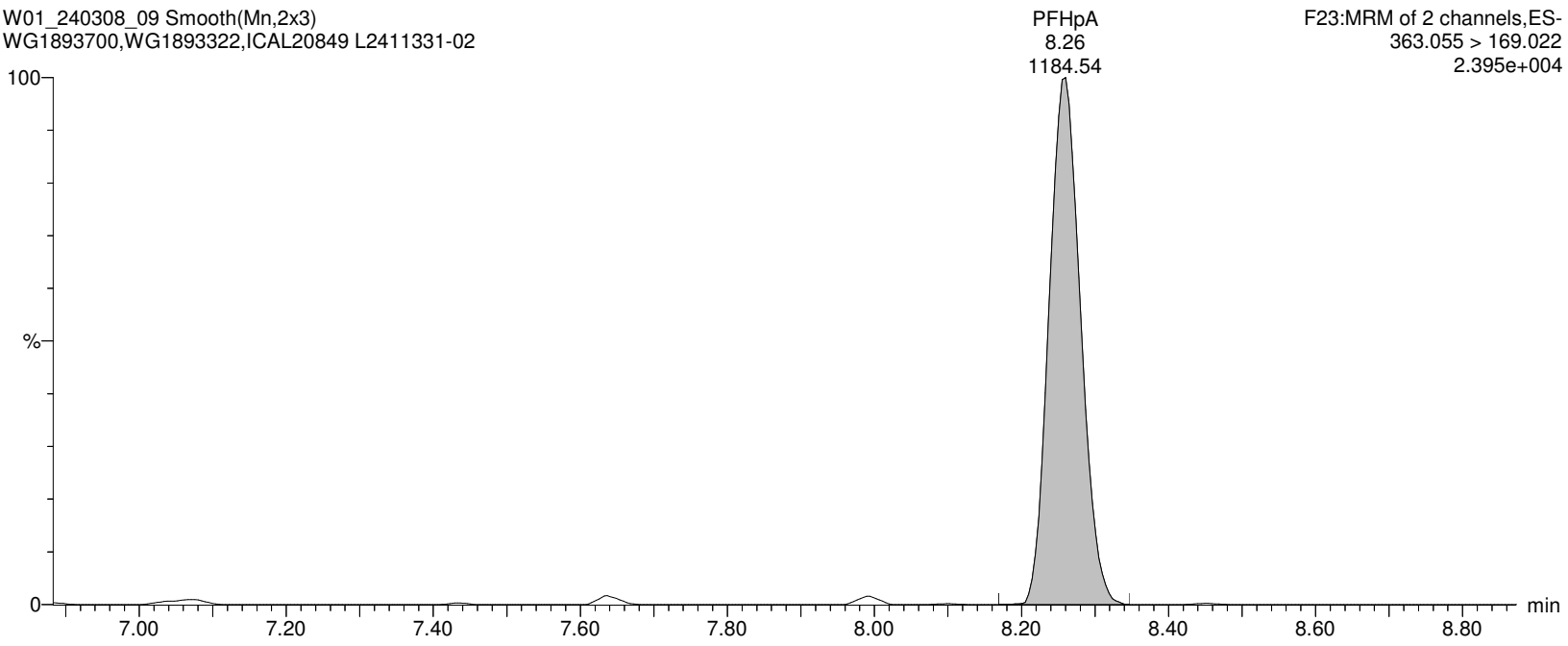

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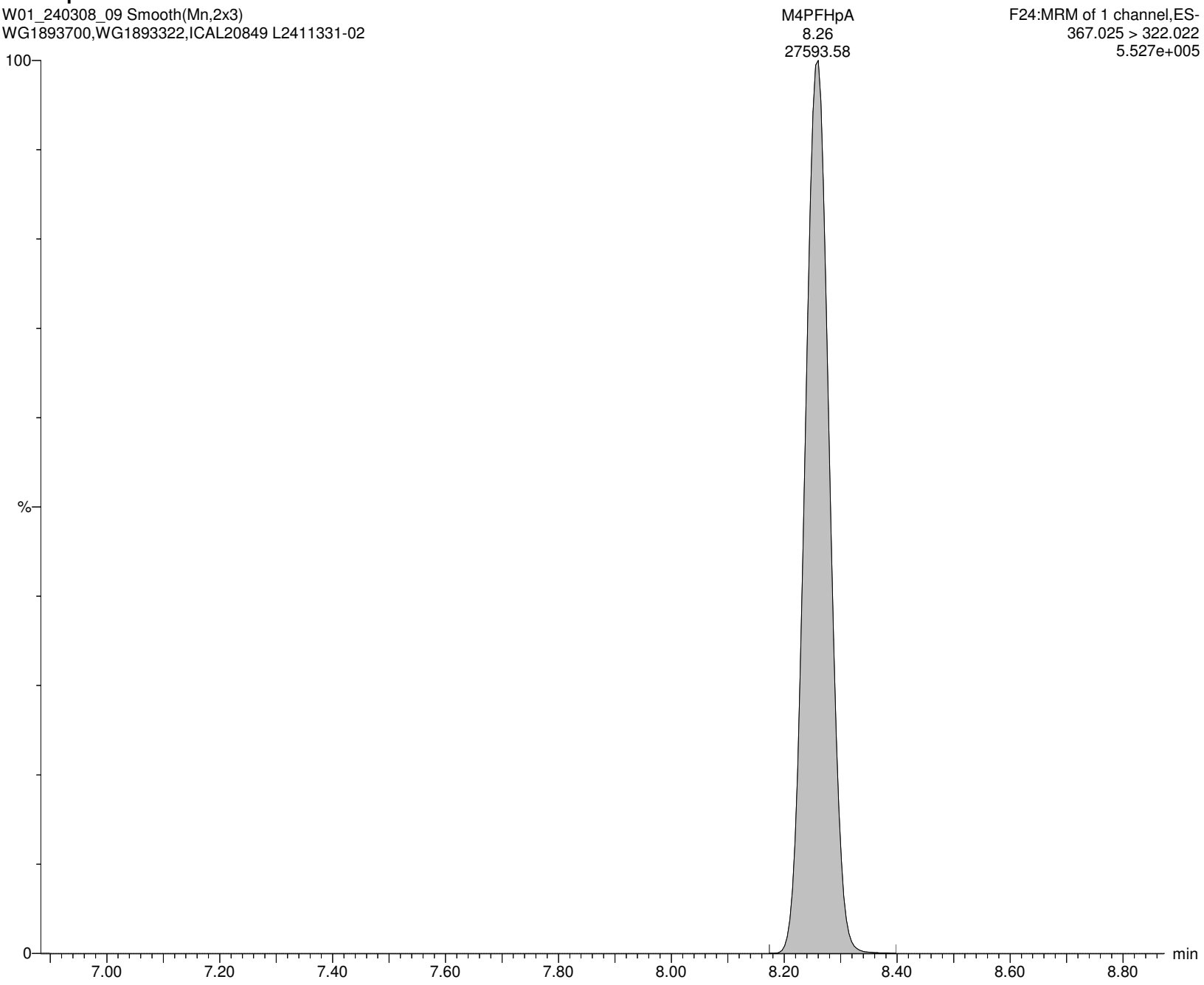

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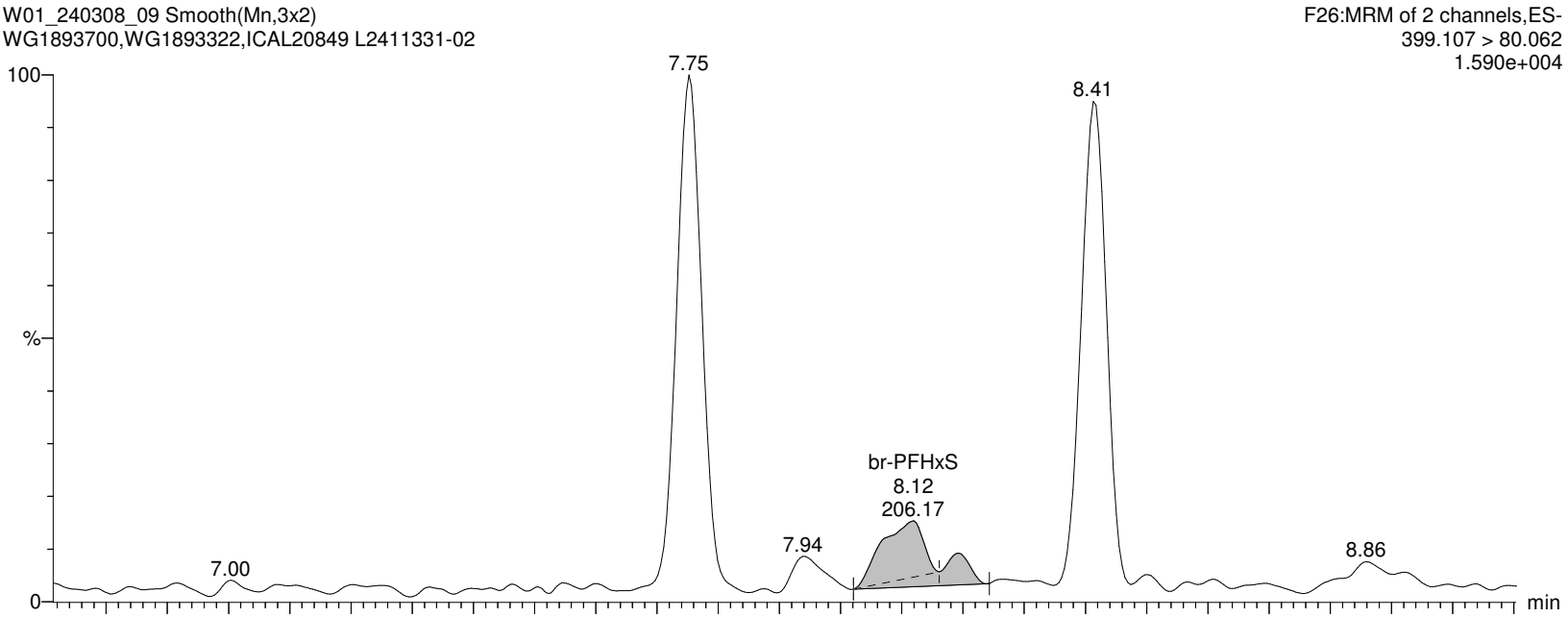

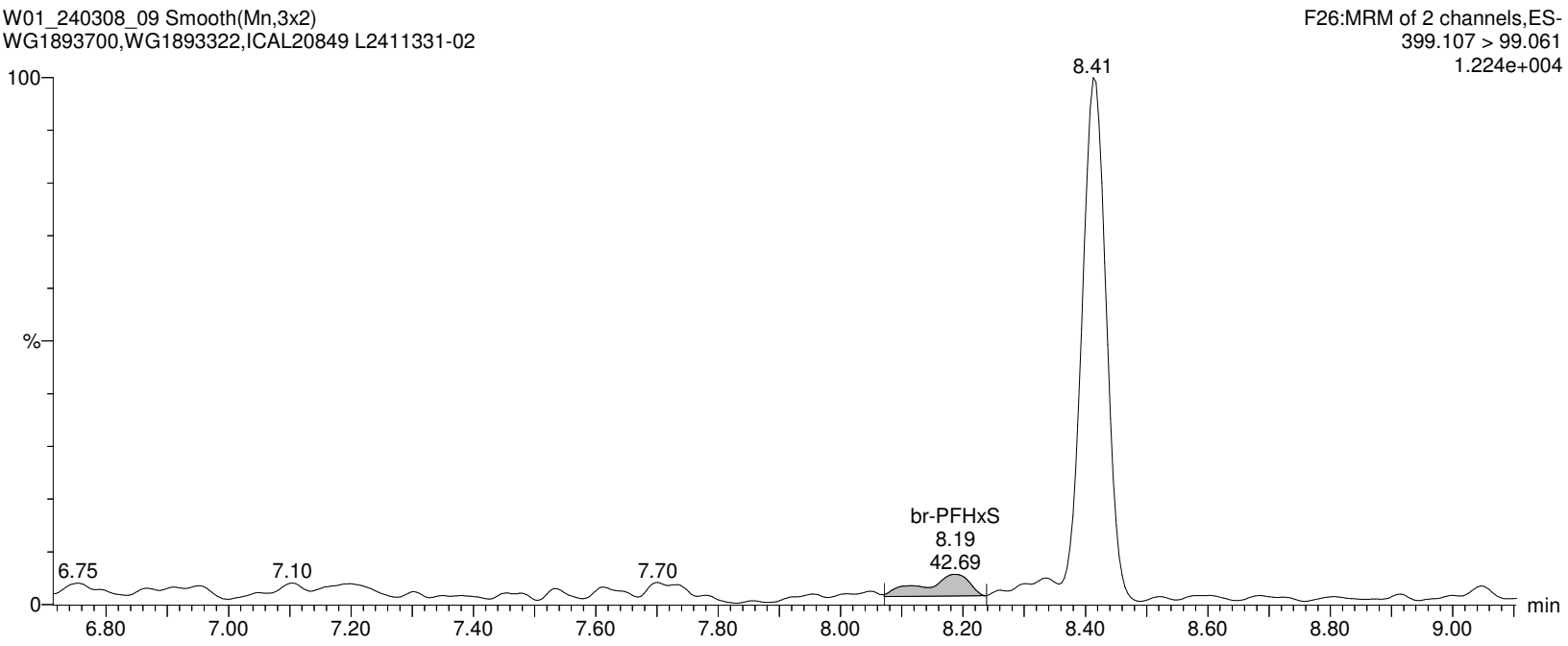

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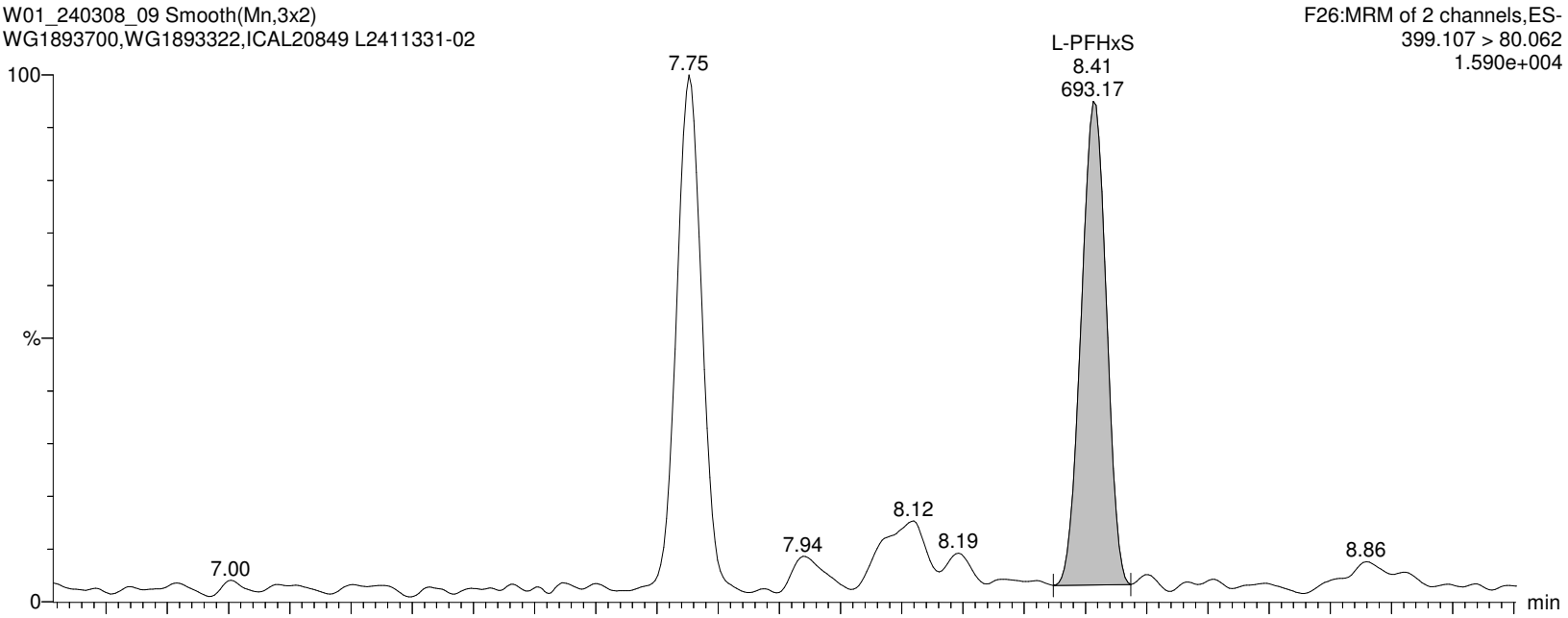

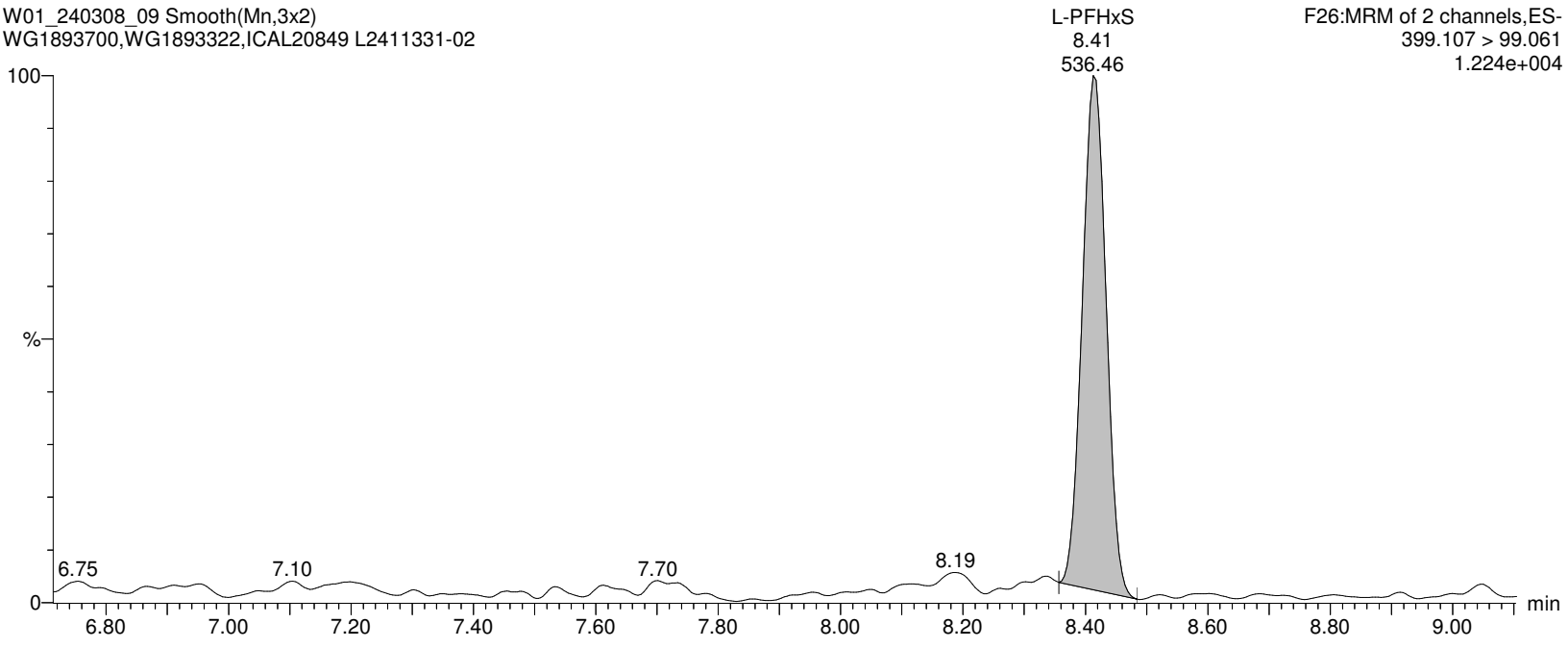

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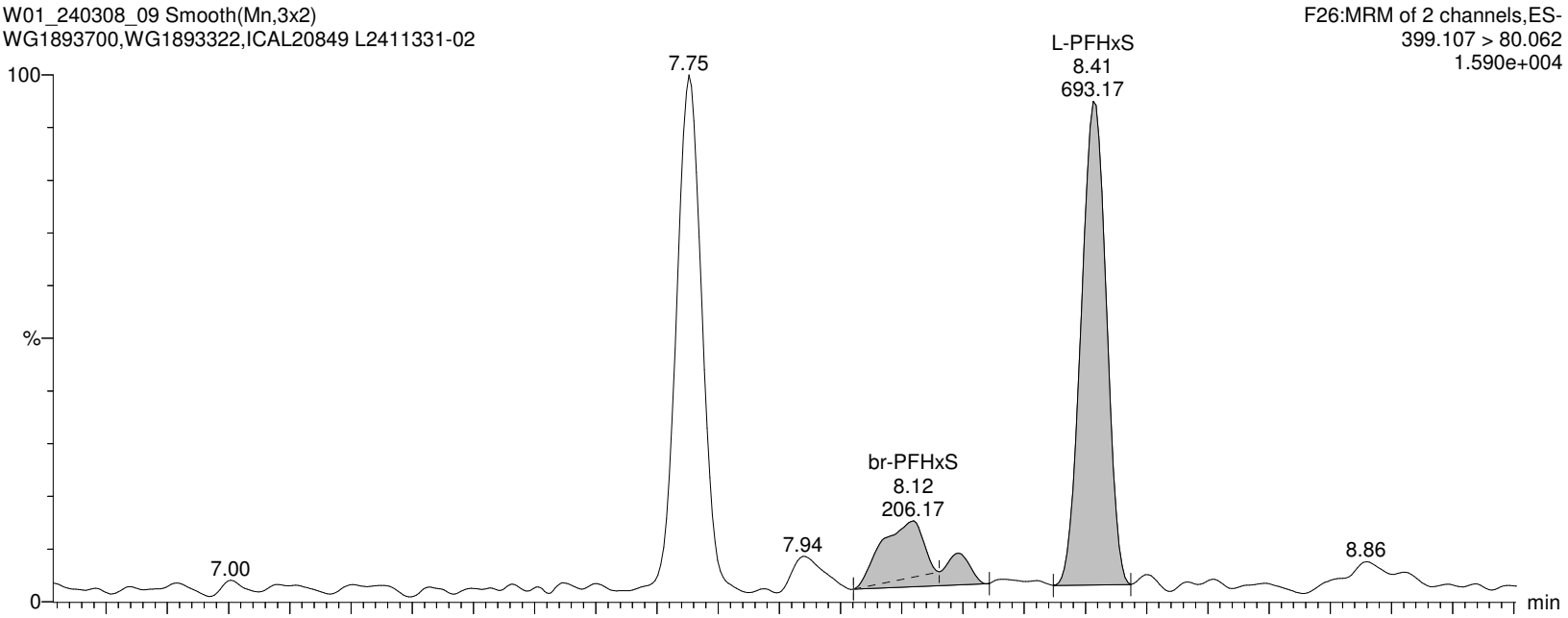

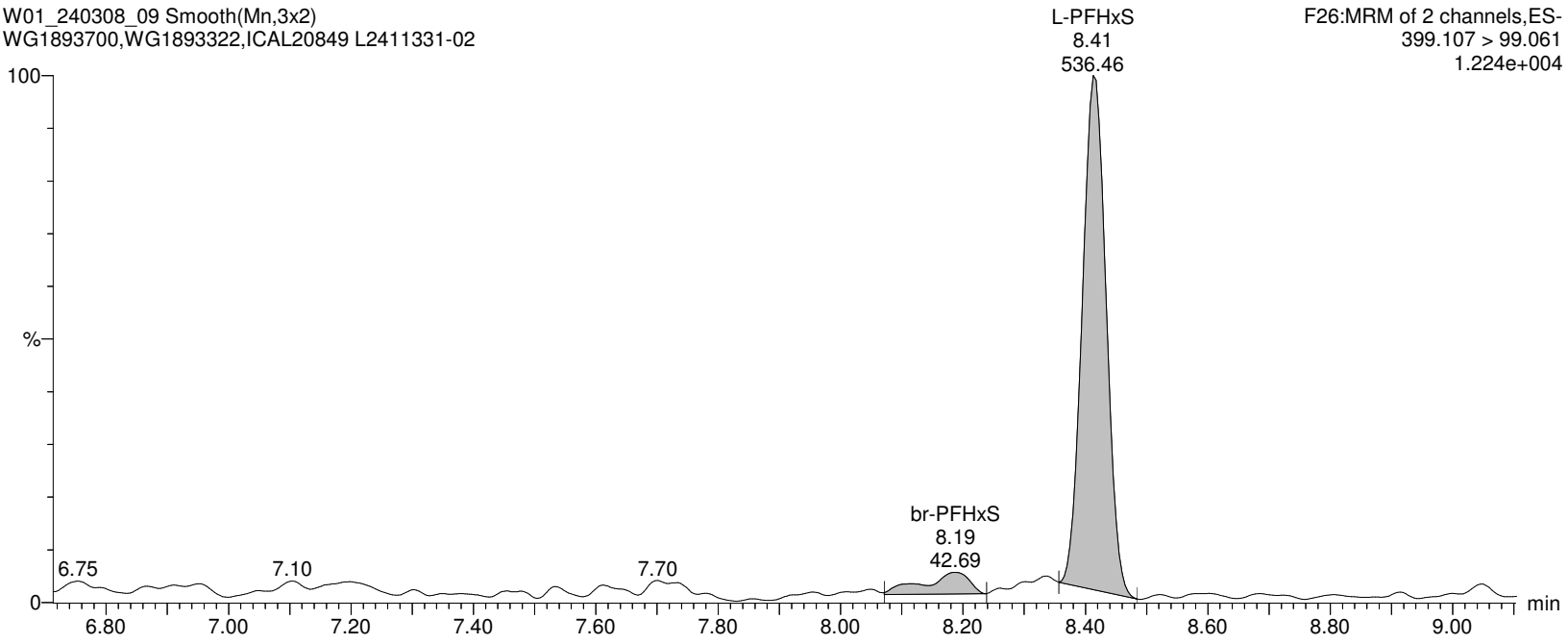

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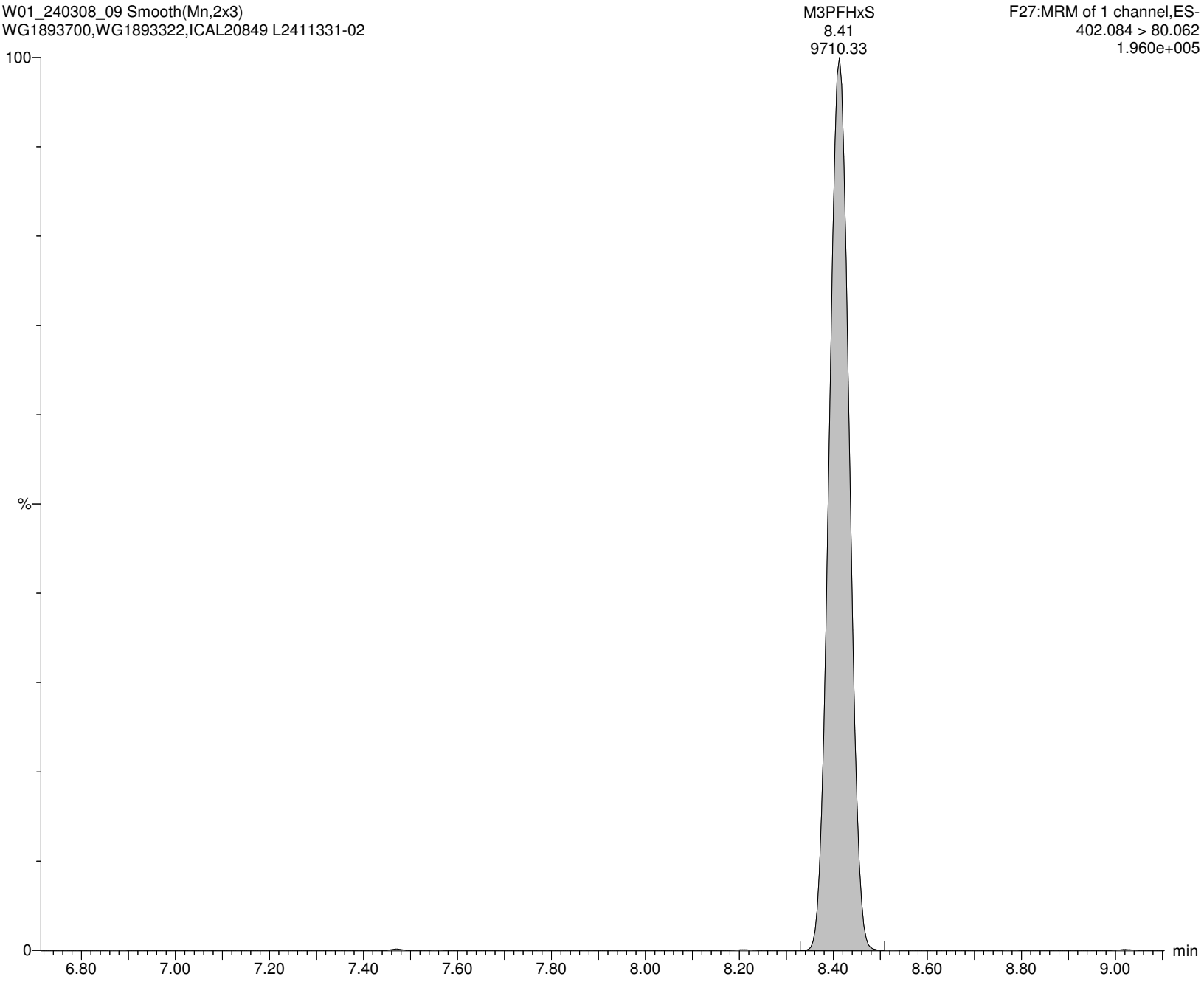

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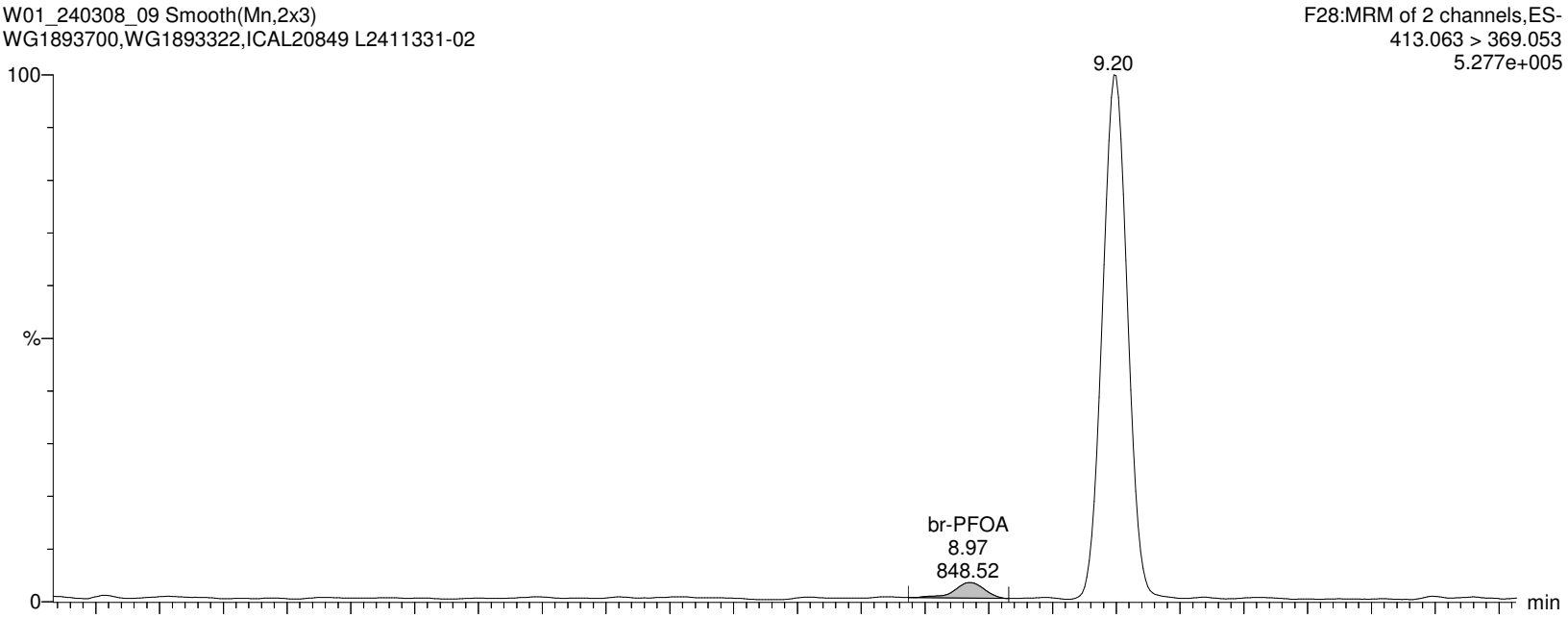

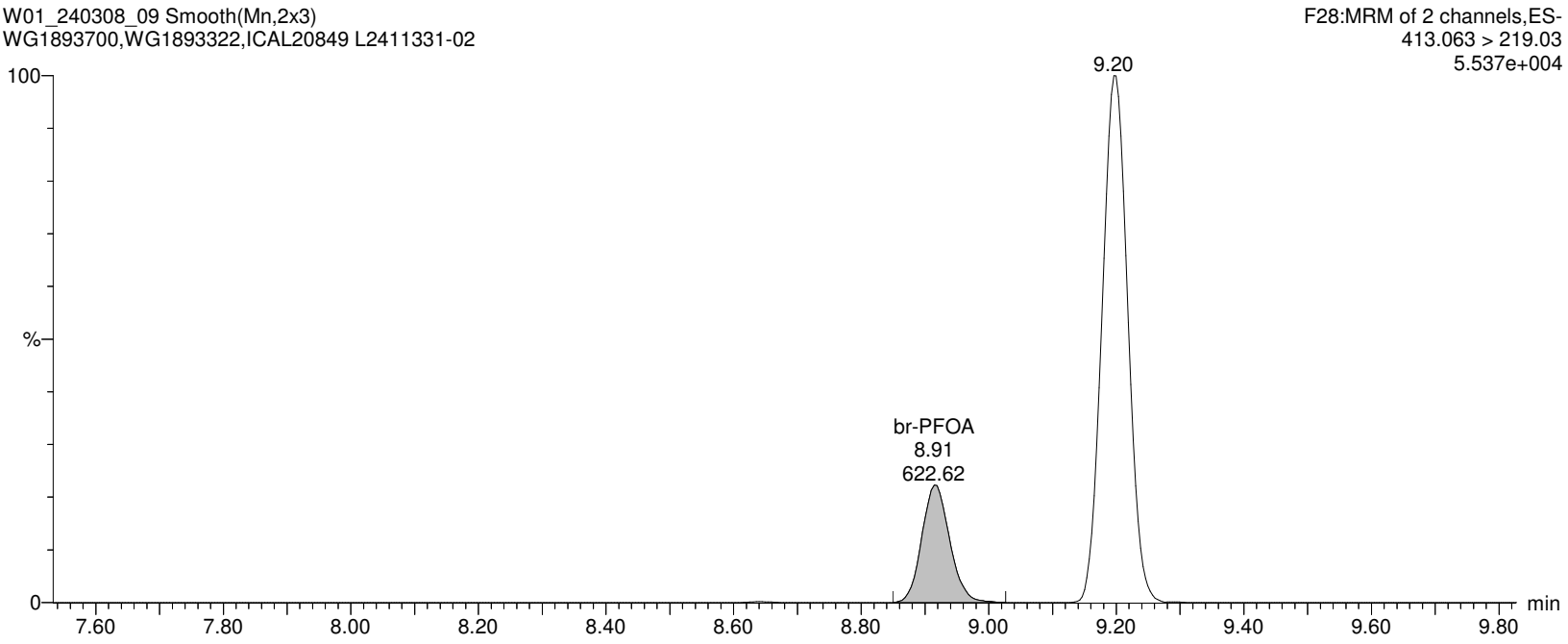

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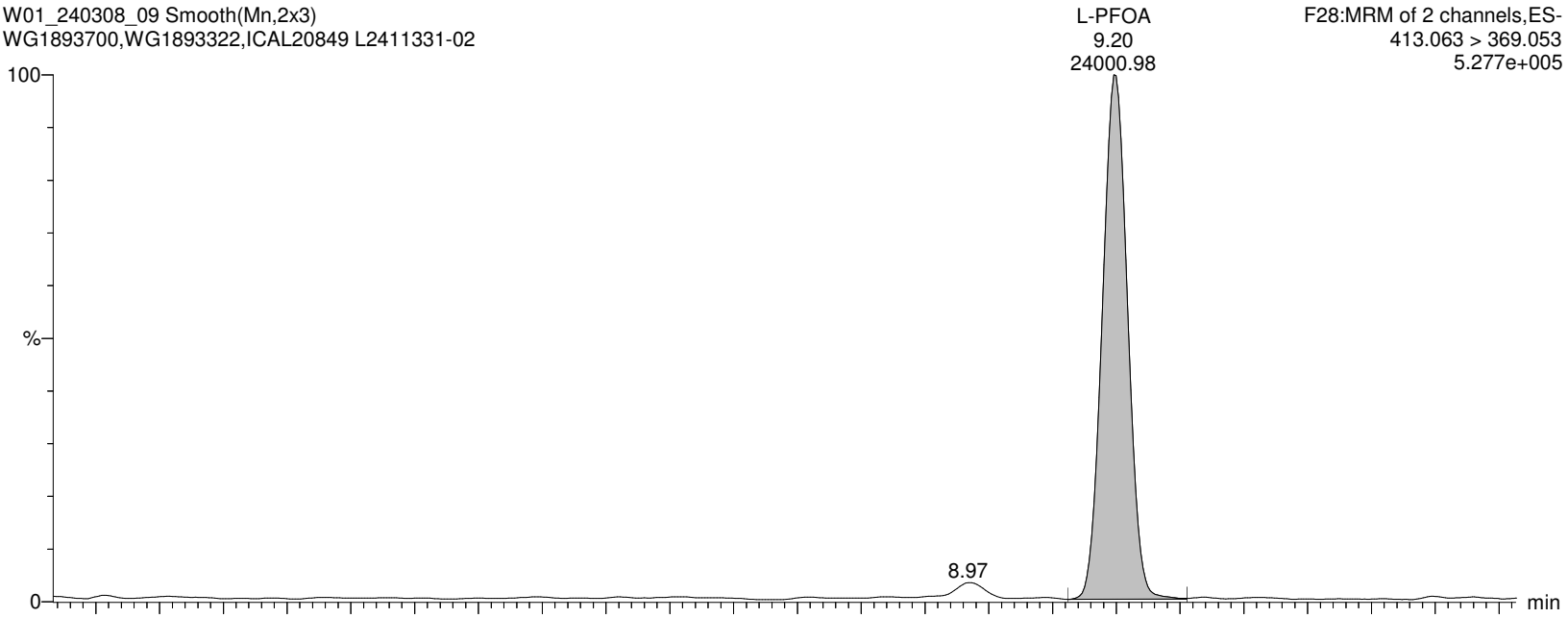

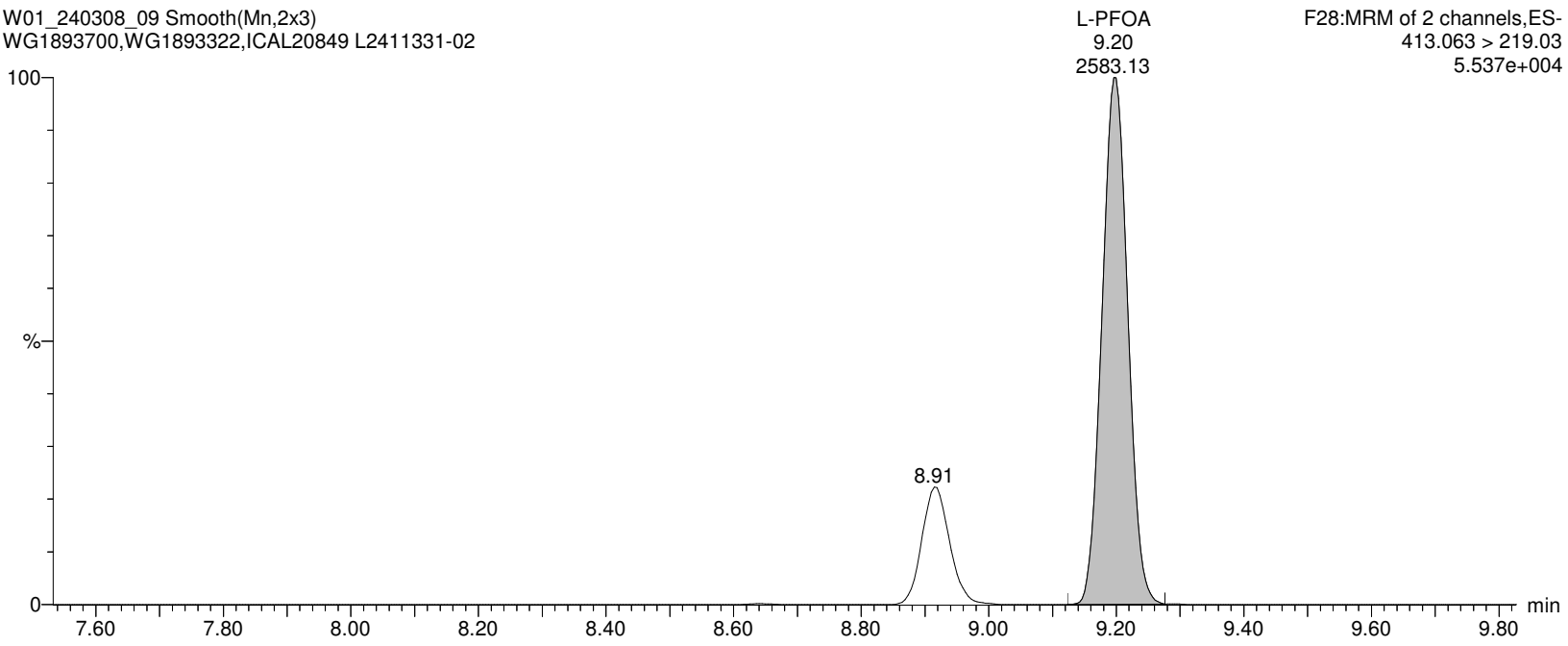

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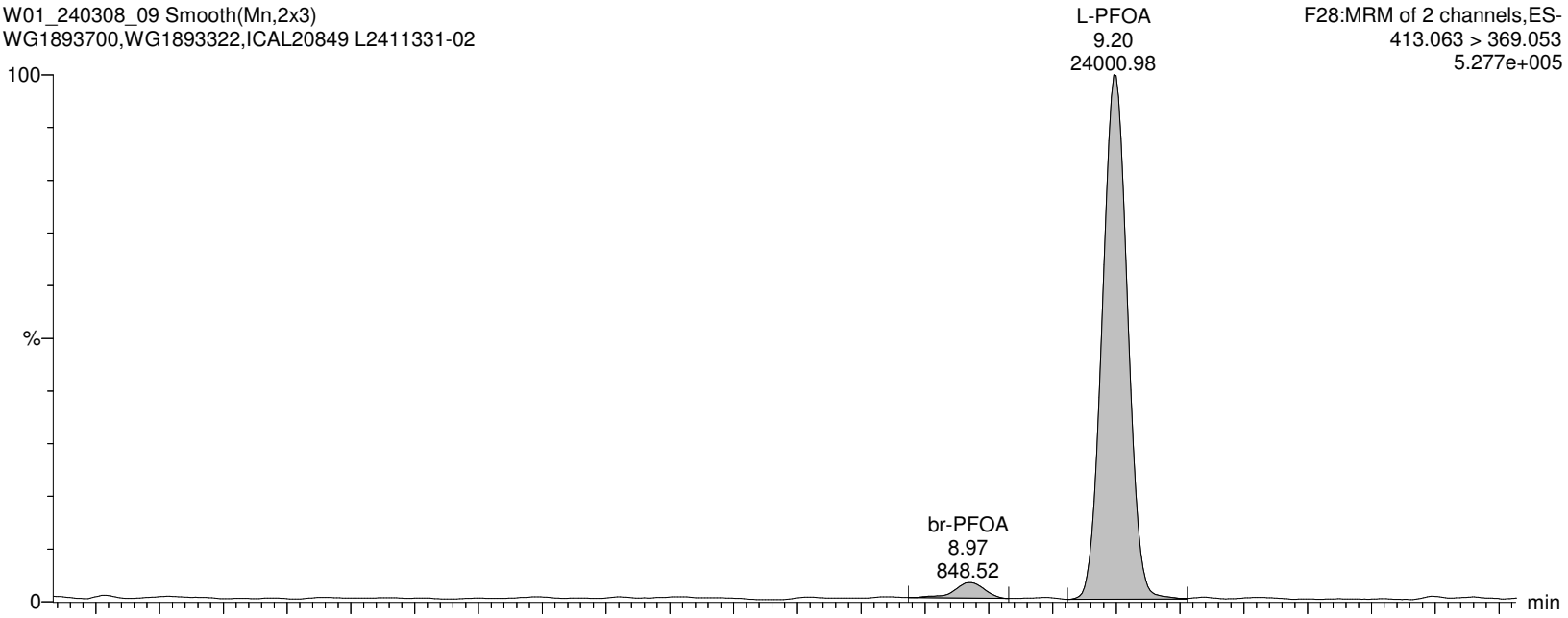

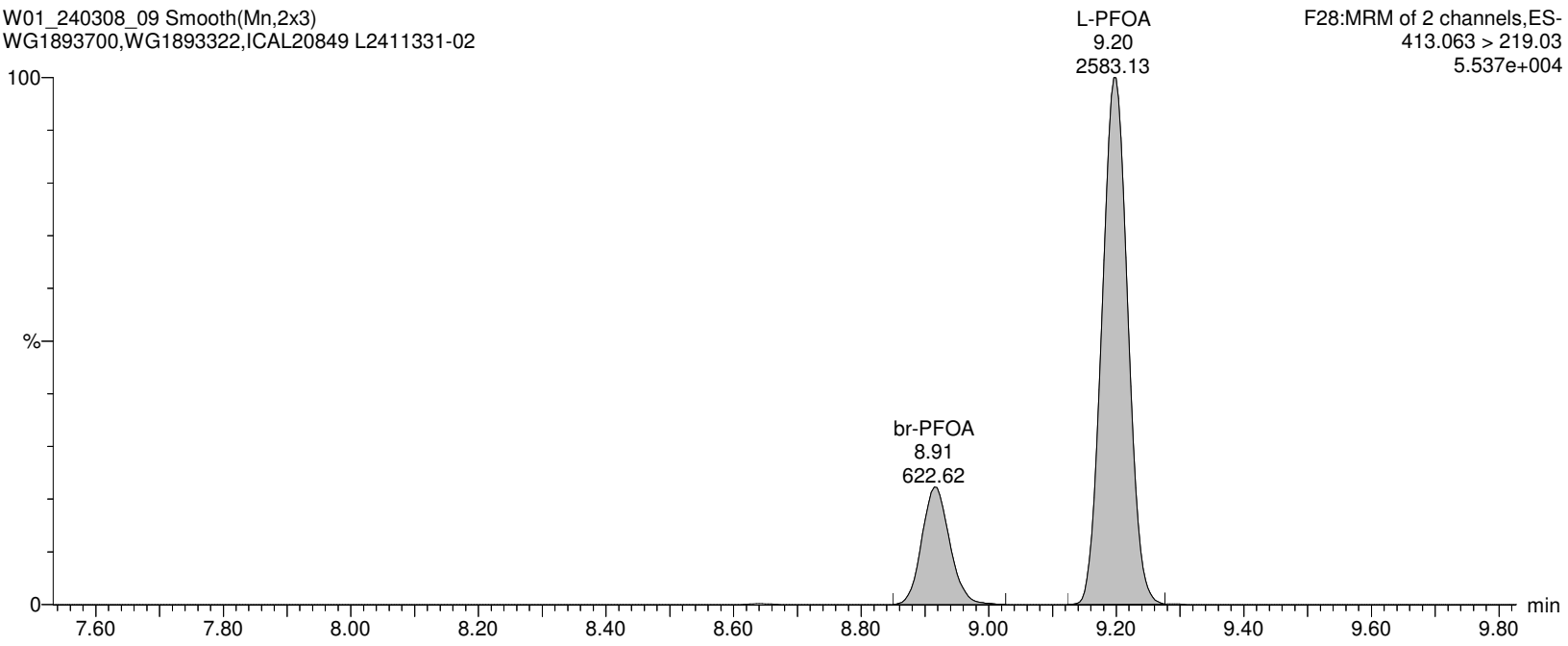

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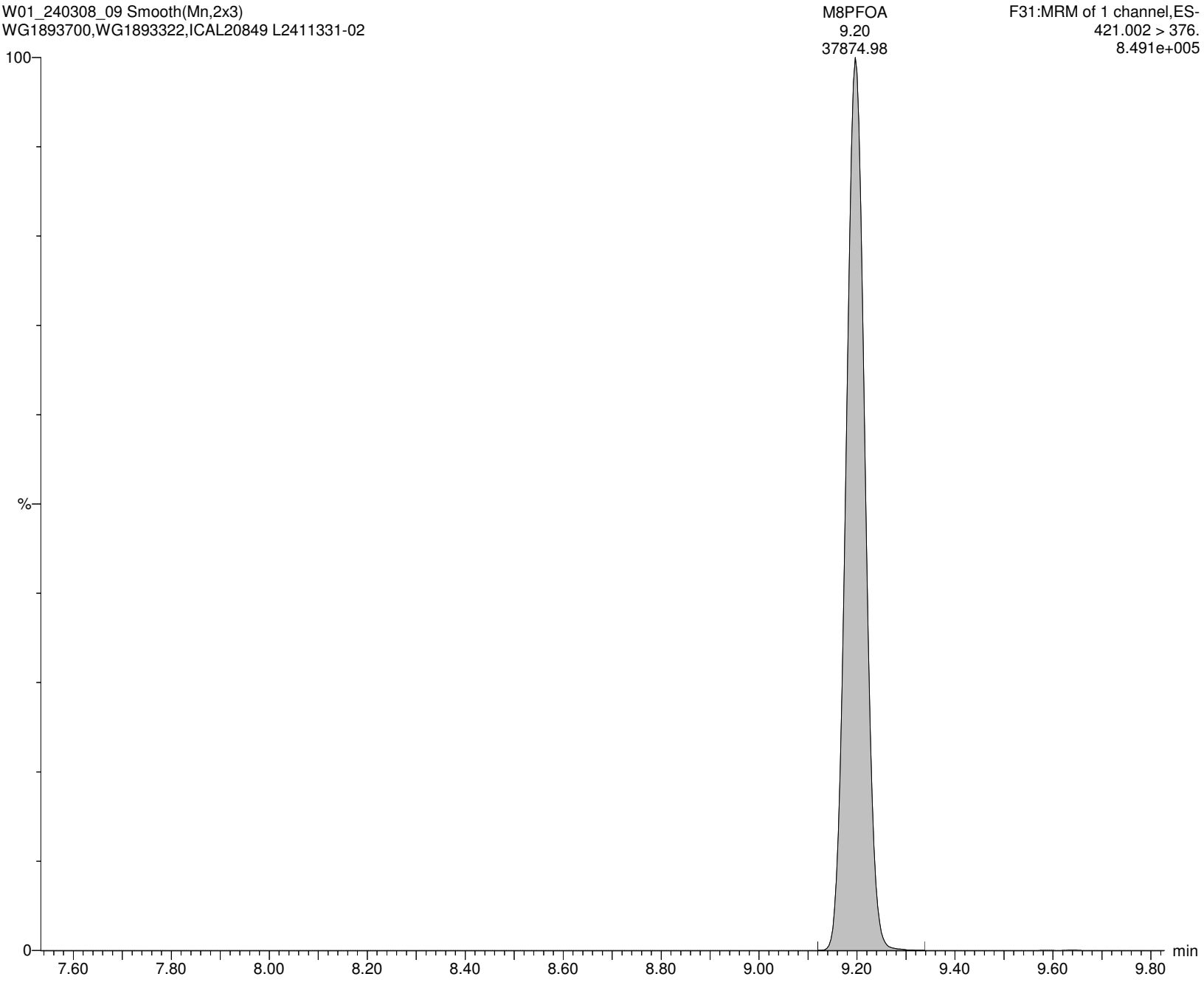

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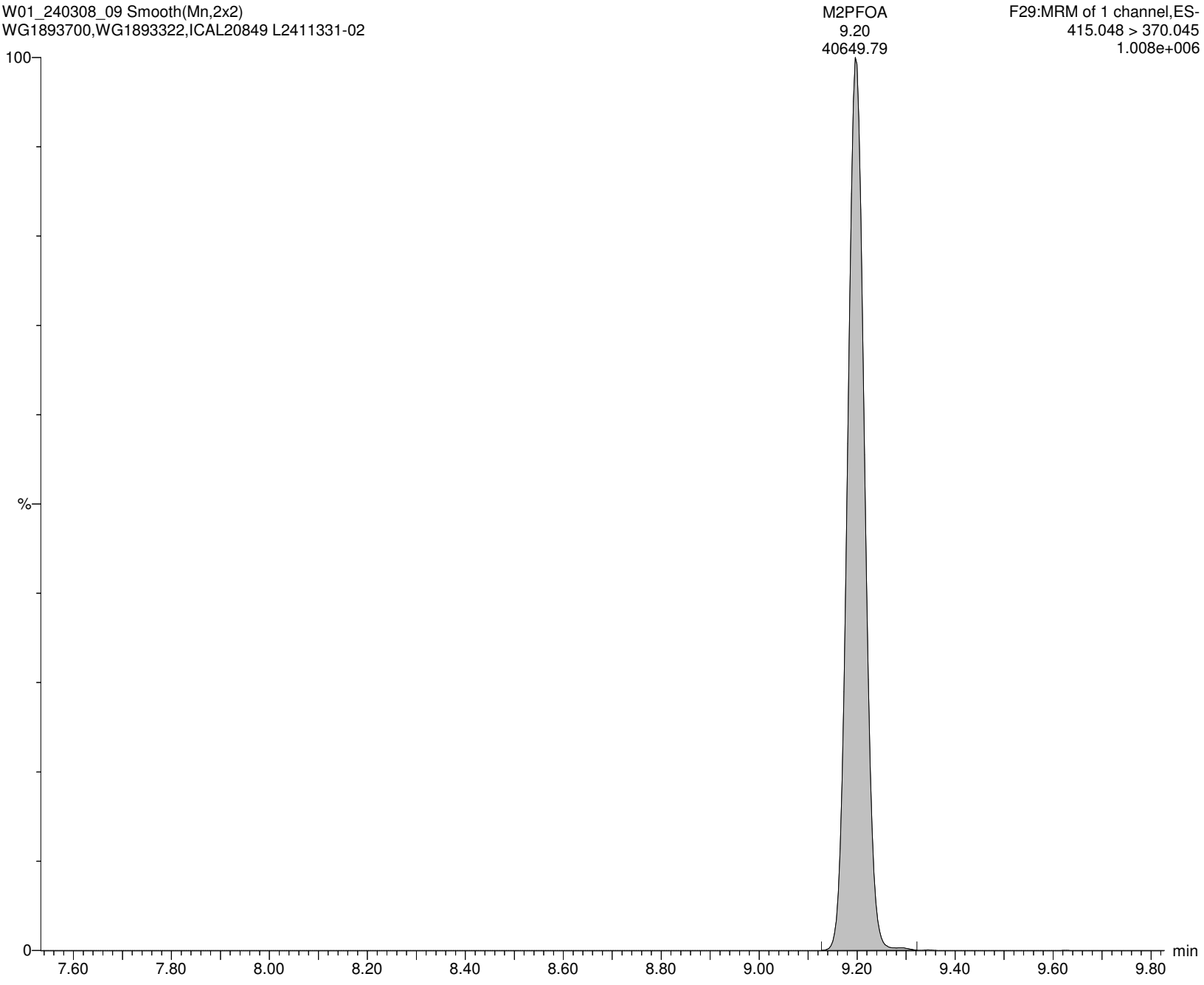

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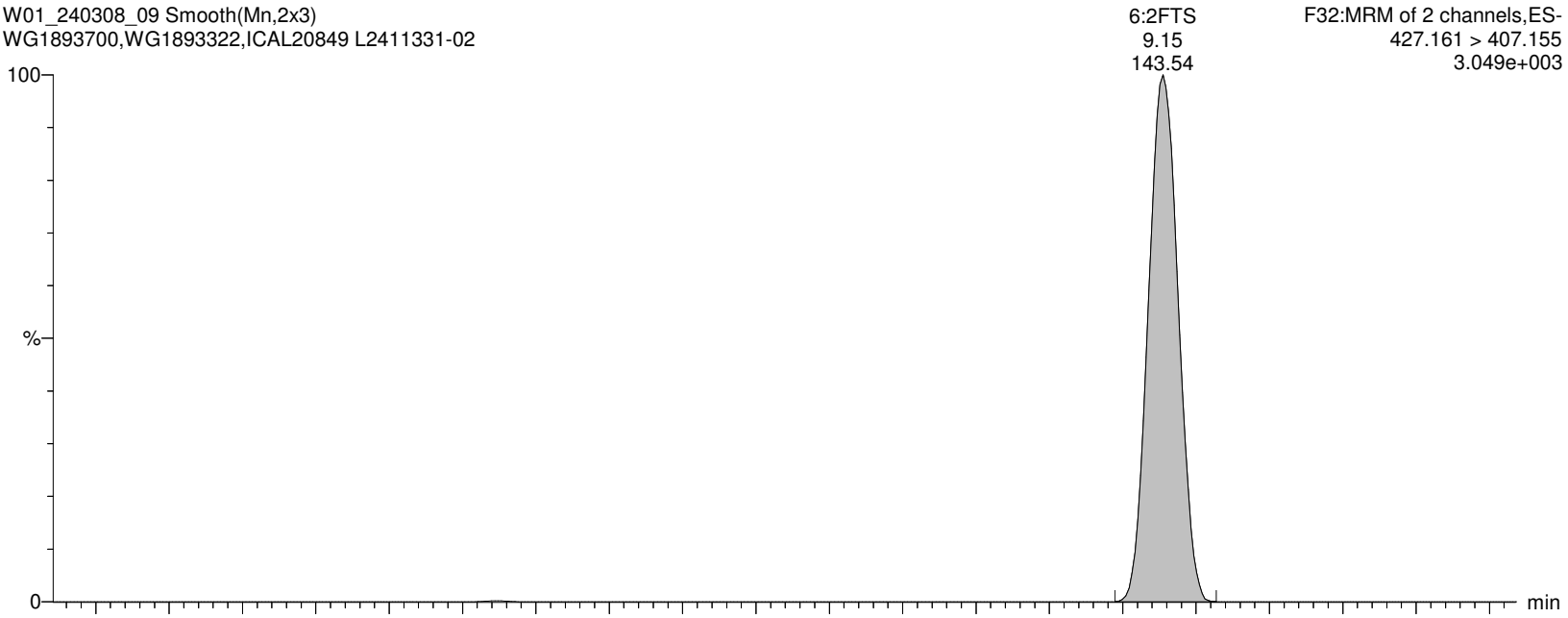

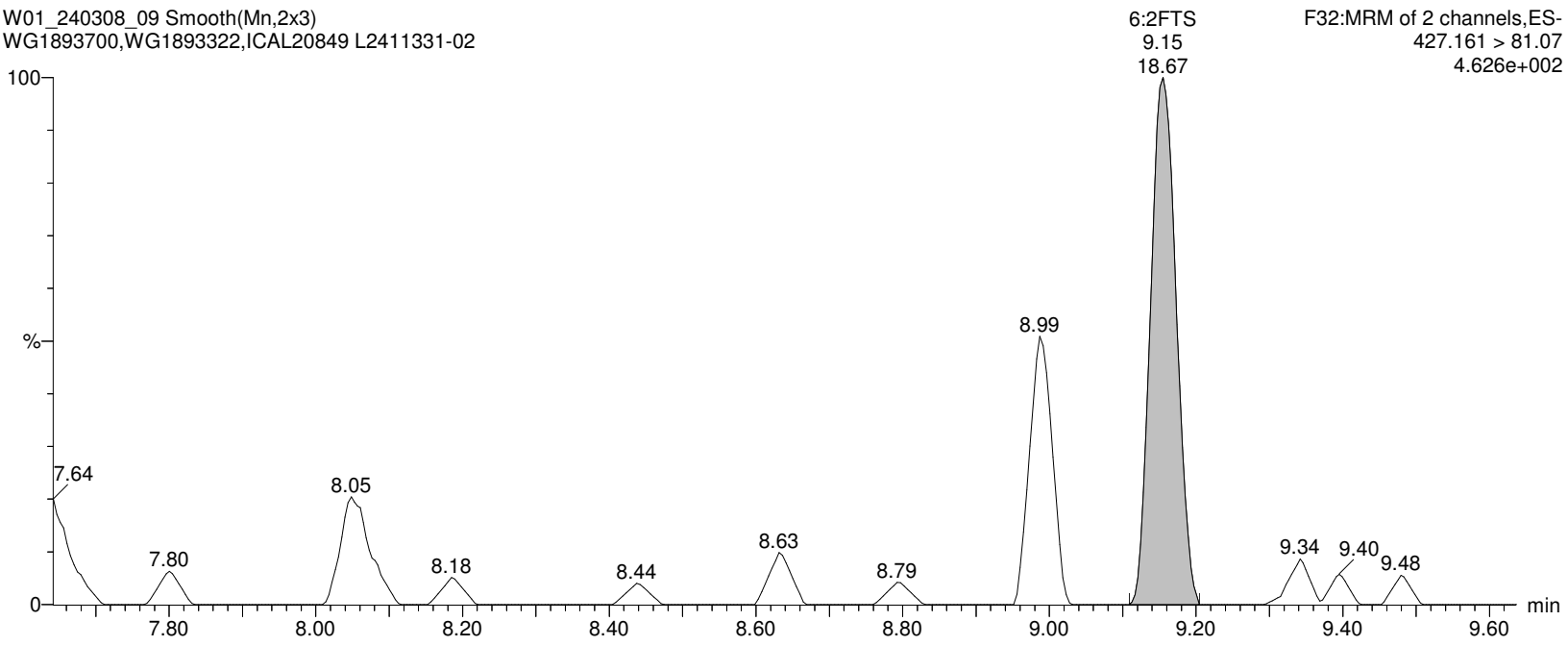

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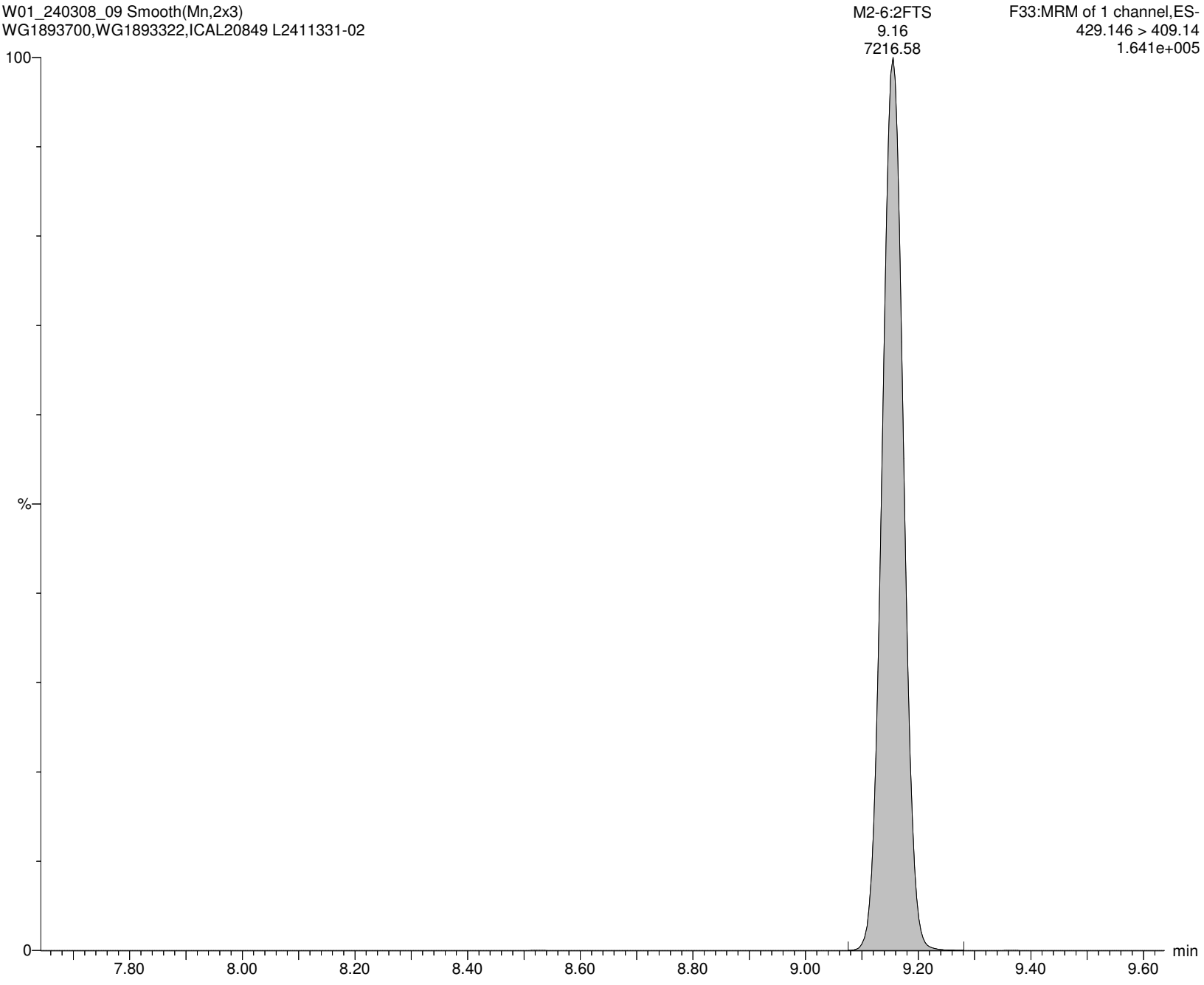

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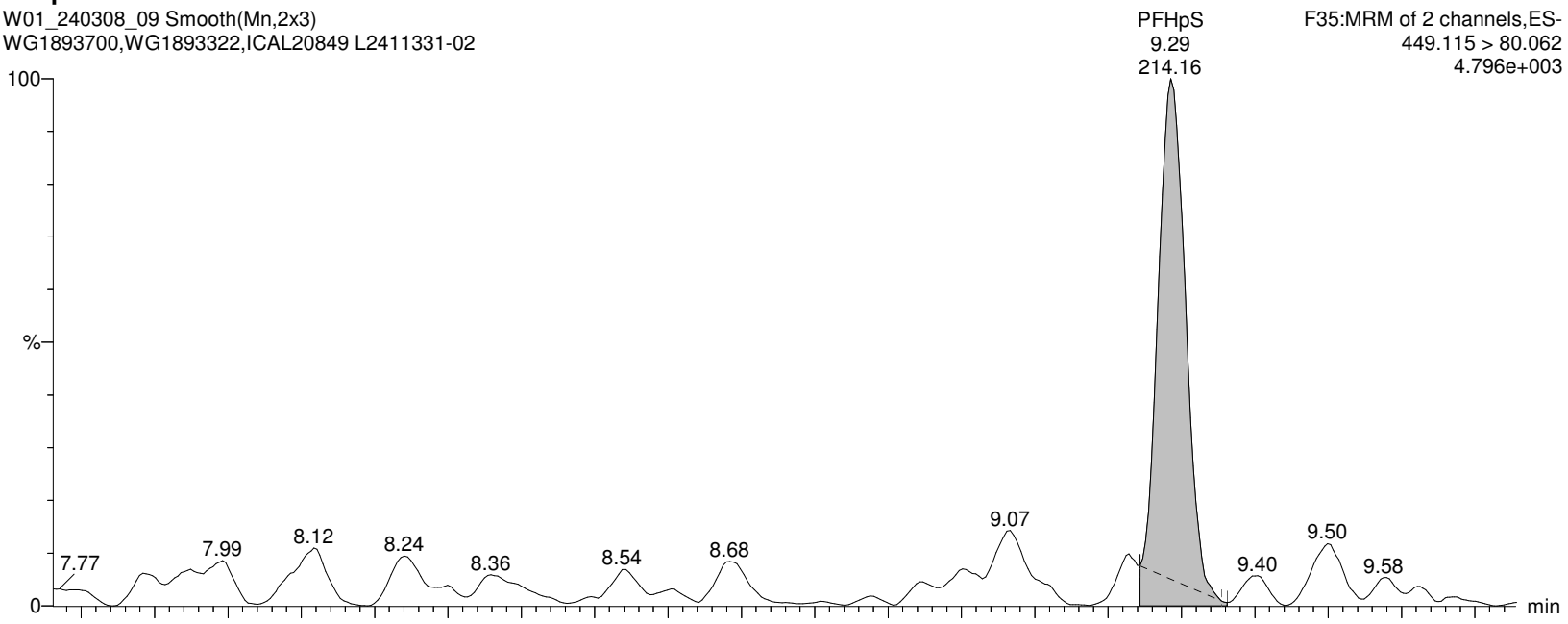
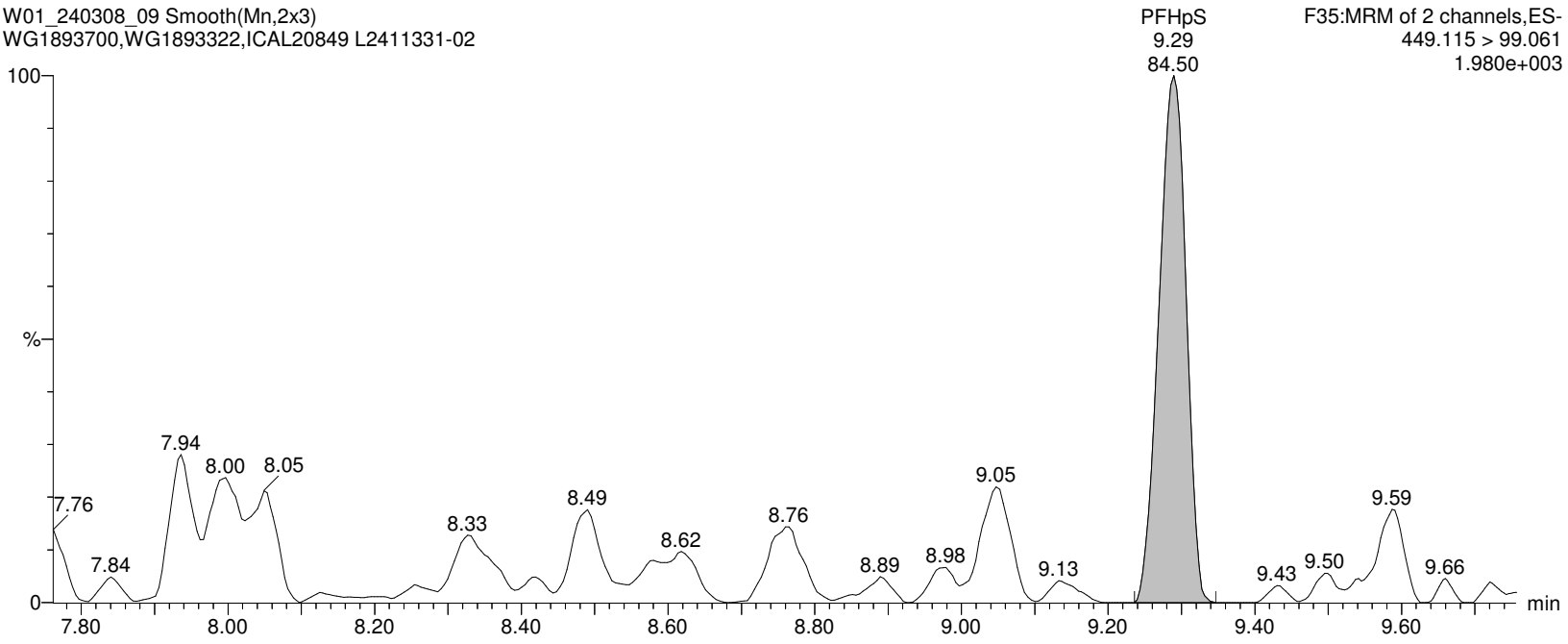
PFHpS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:38 Eastern Standard Time

Name: W01_240308_09
ID: L2411331-02
Date: 08-Mar-2024
Time: 07:16:12
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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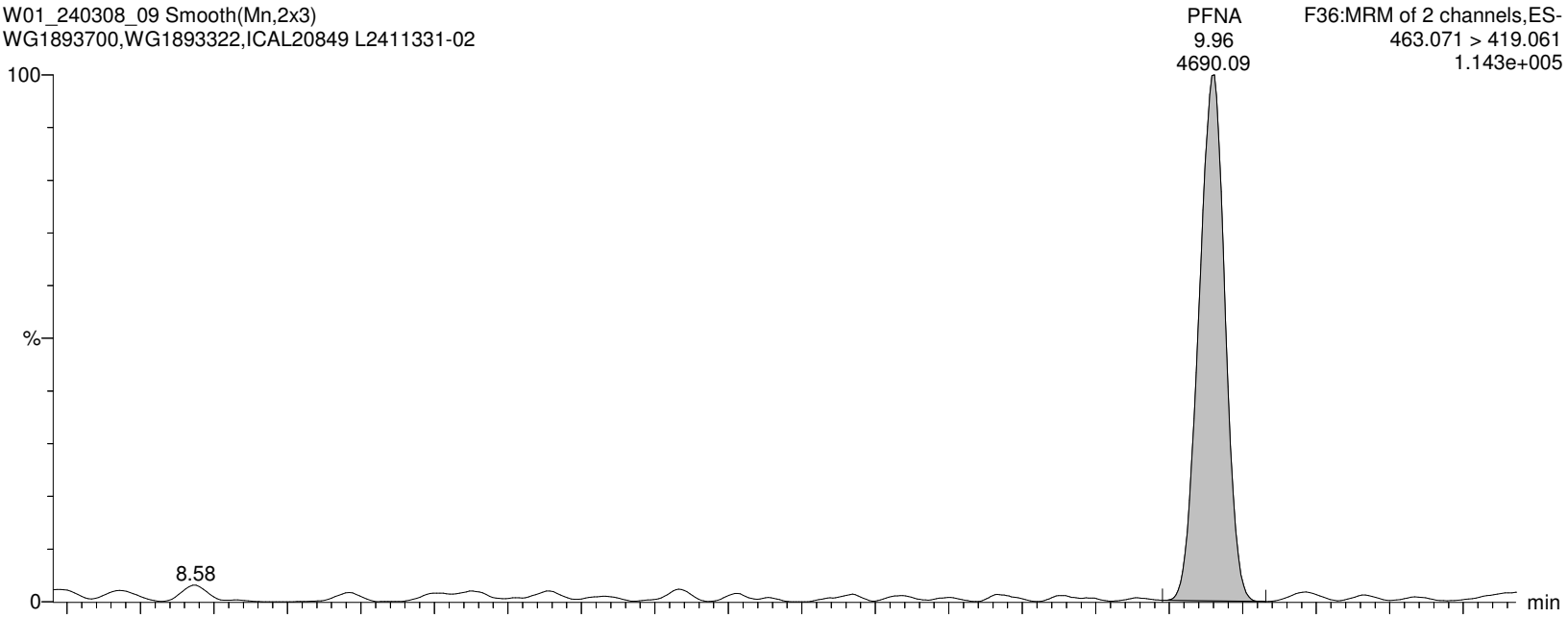

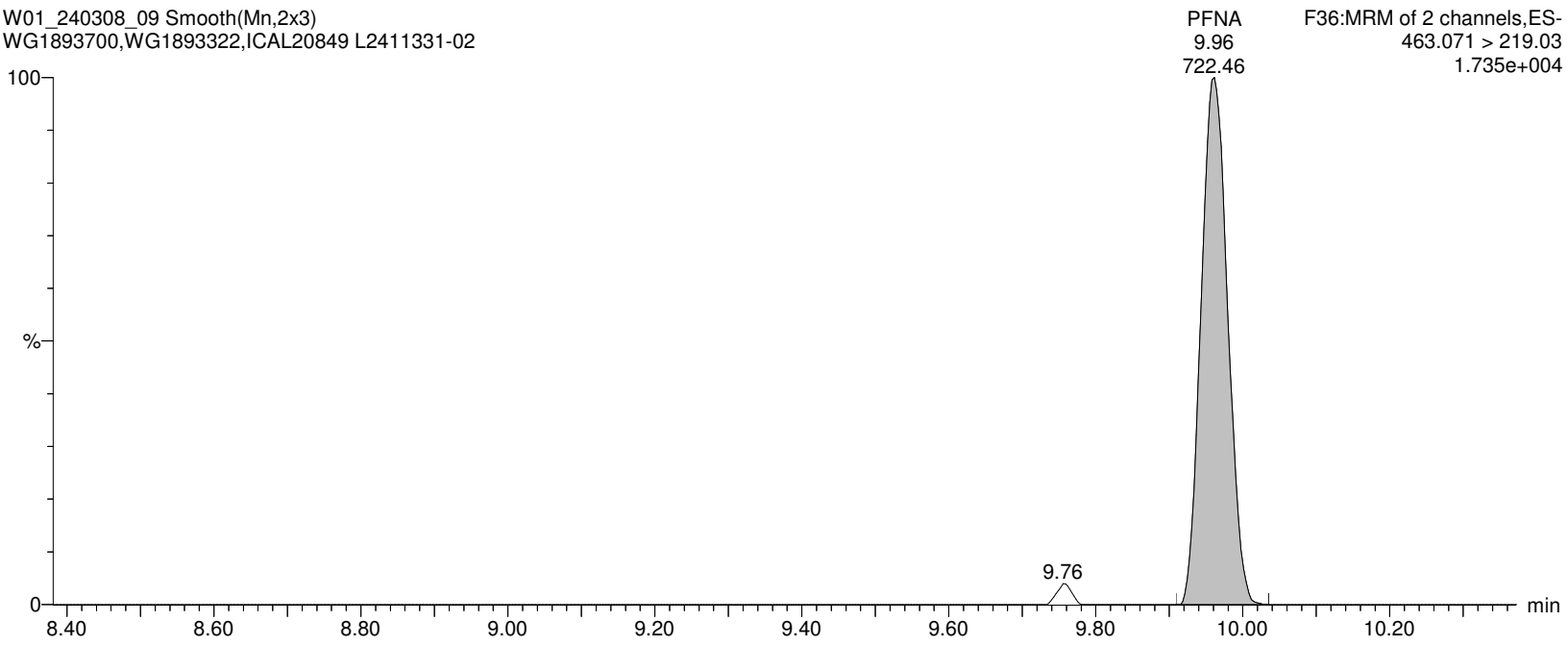

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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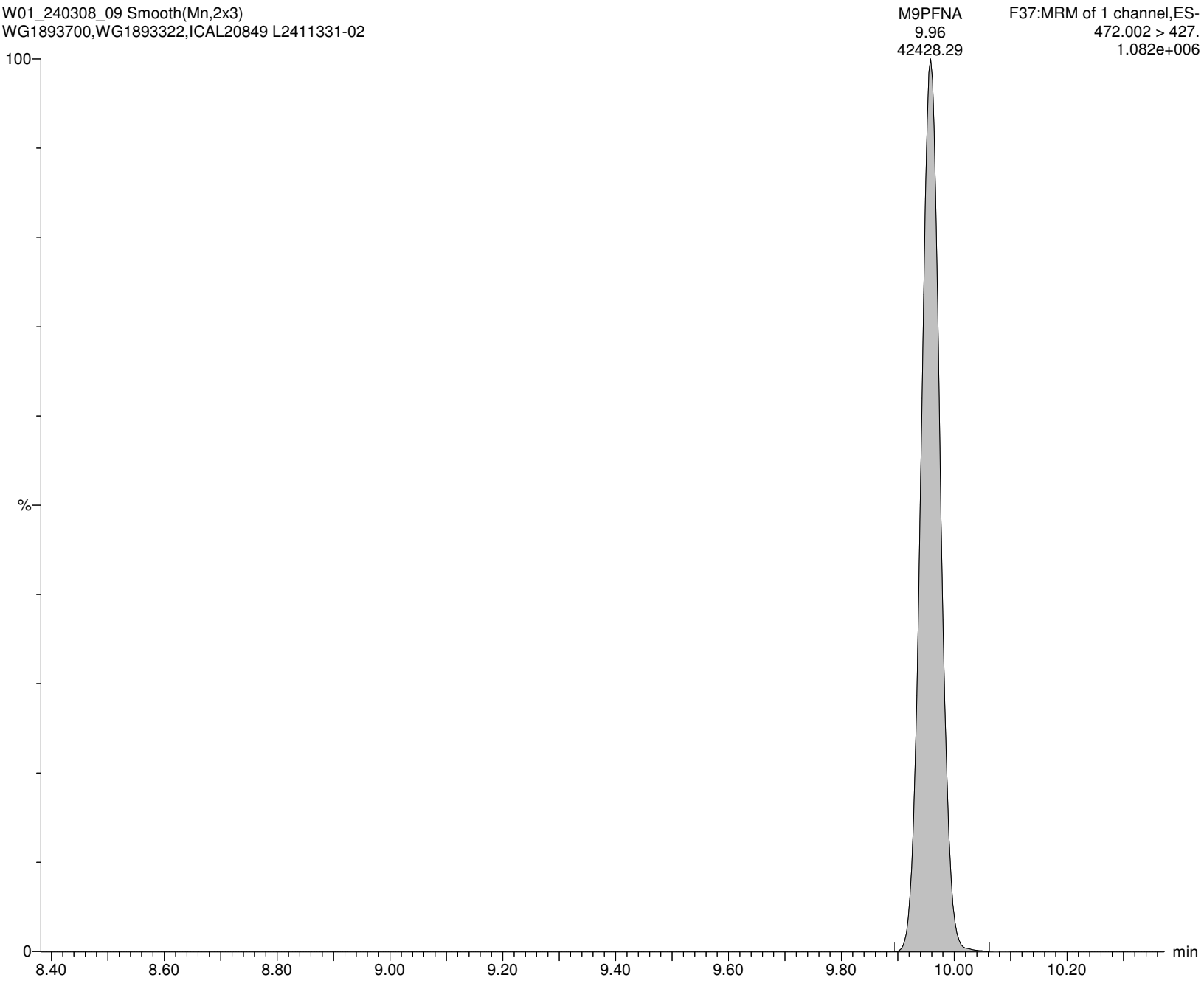

all concentration units in (ng/mL)

Alpha Analytical Inc.
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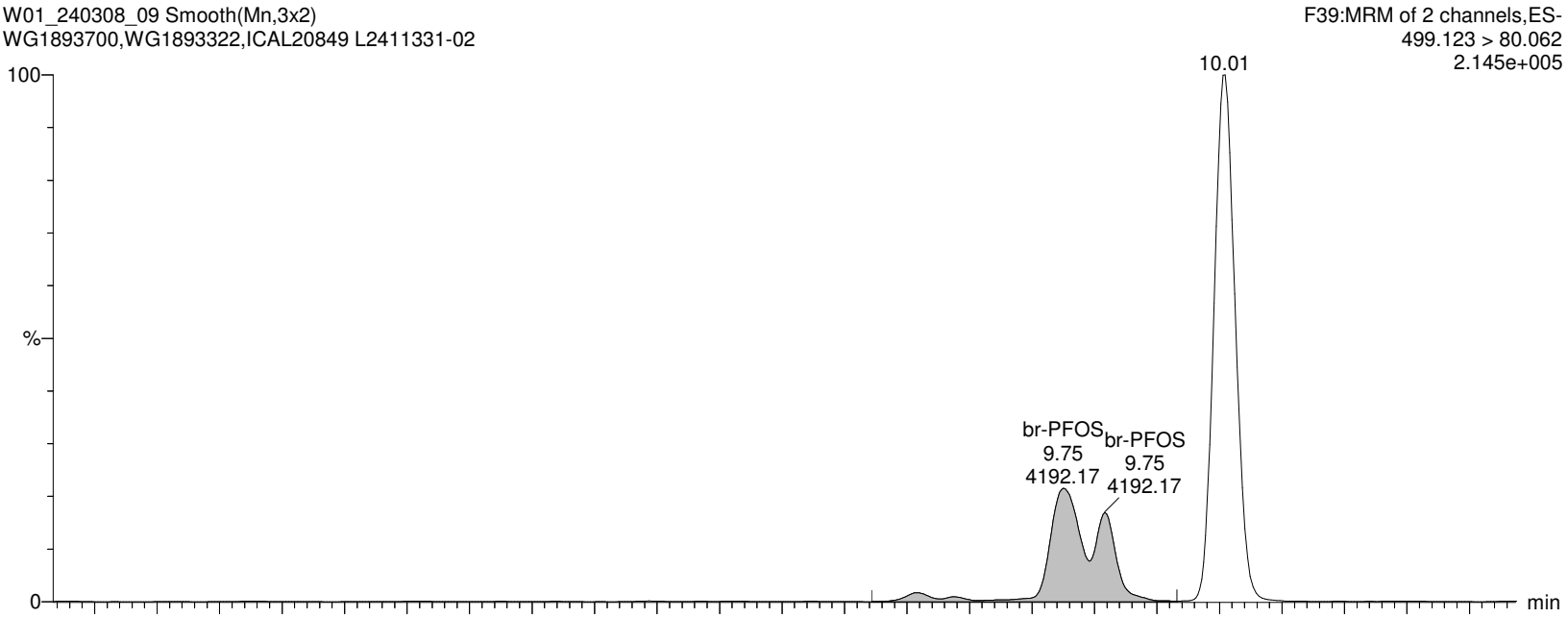

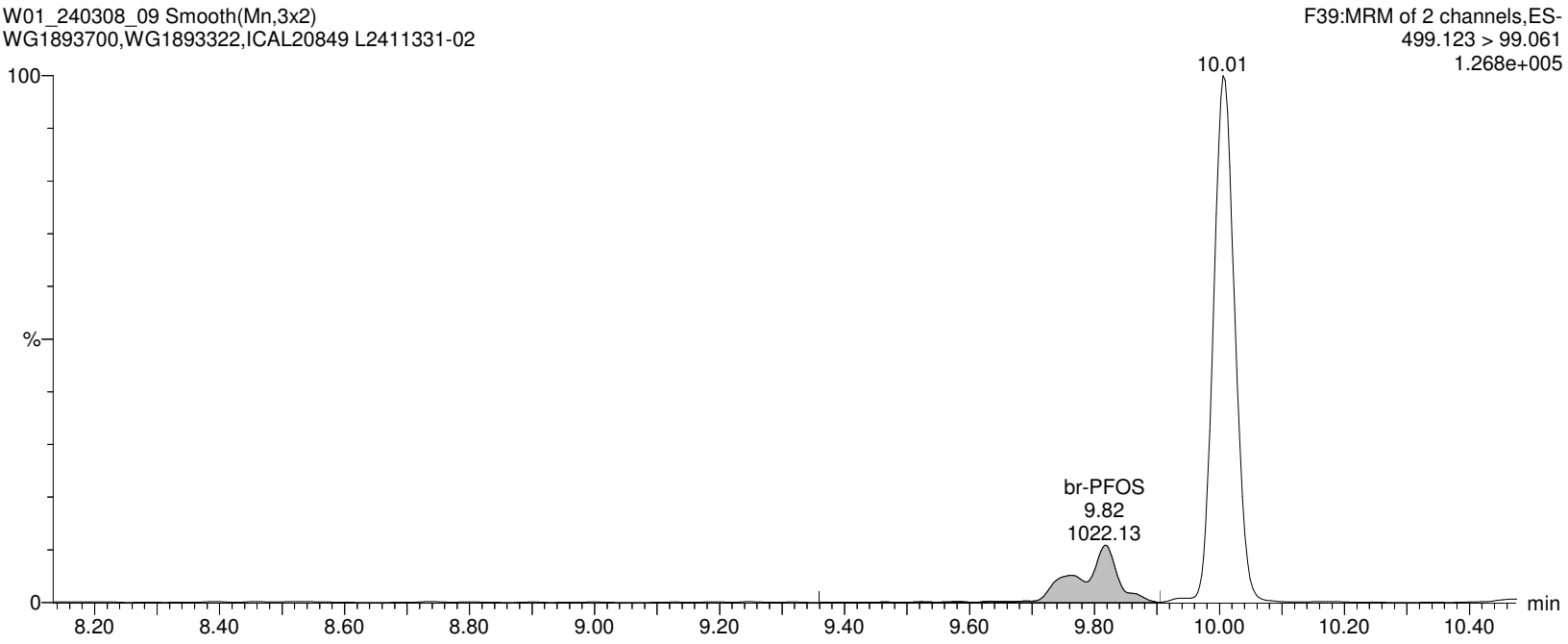

all concentration units in (ng/mL)

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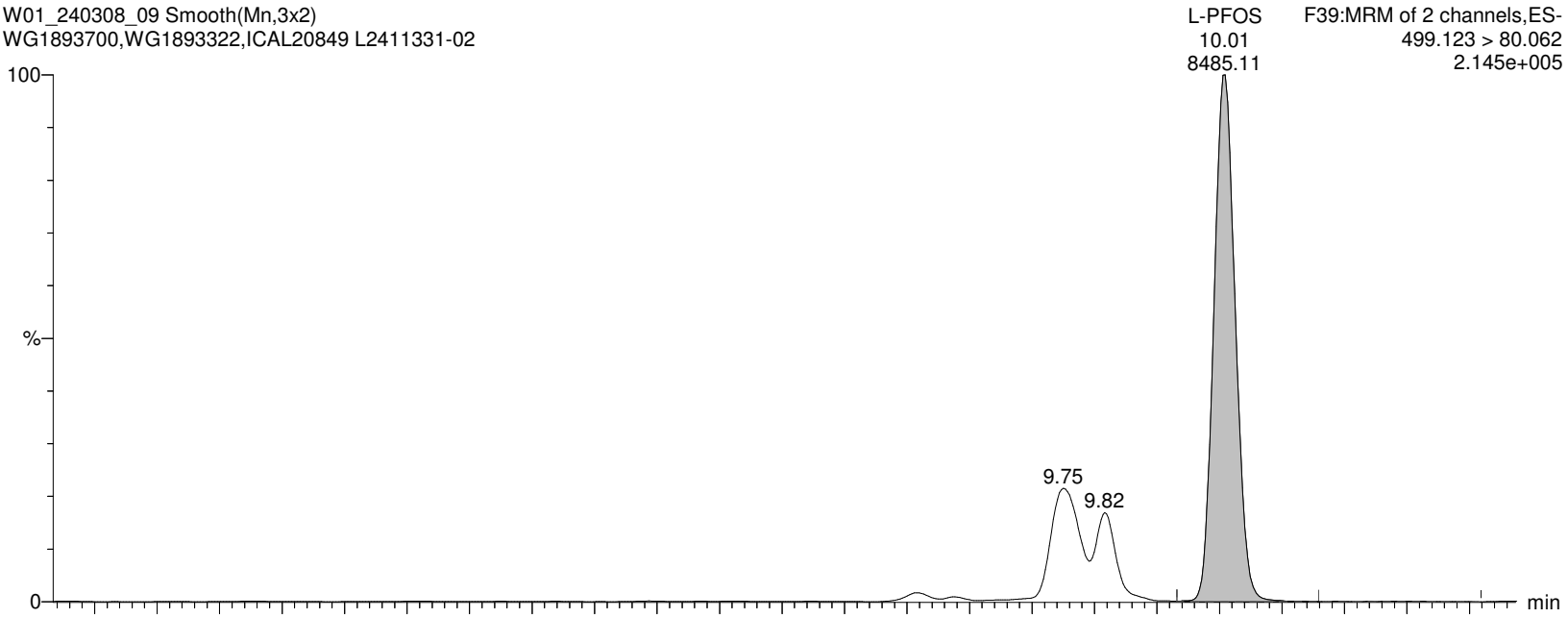

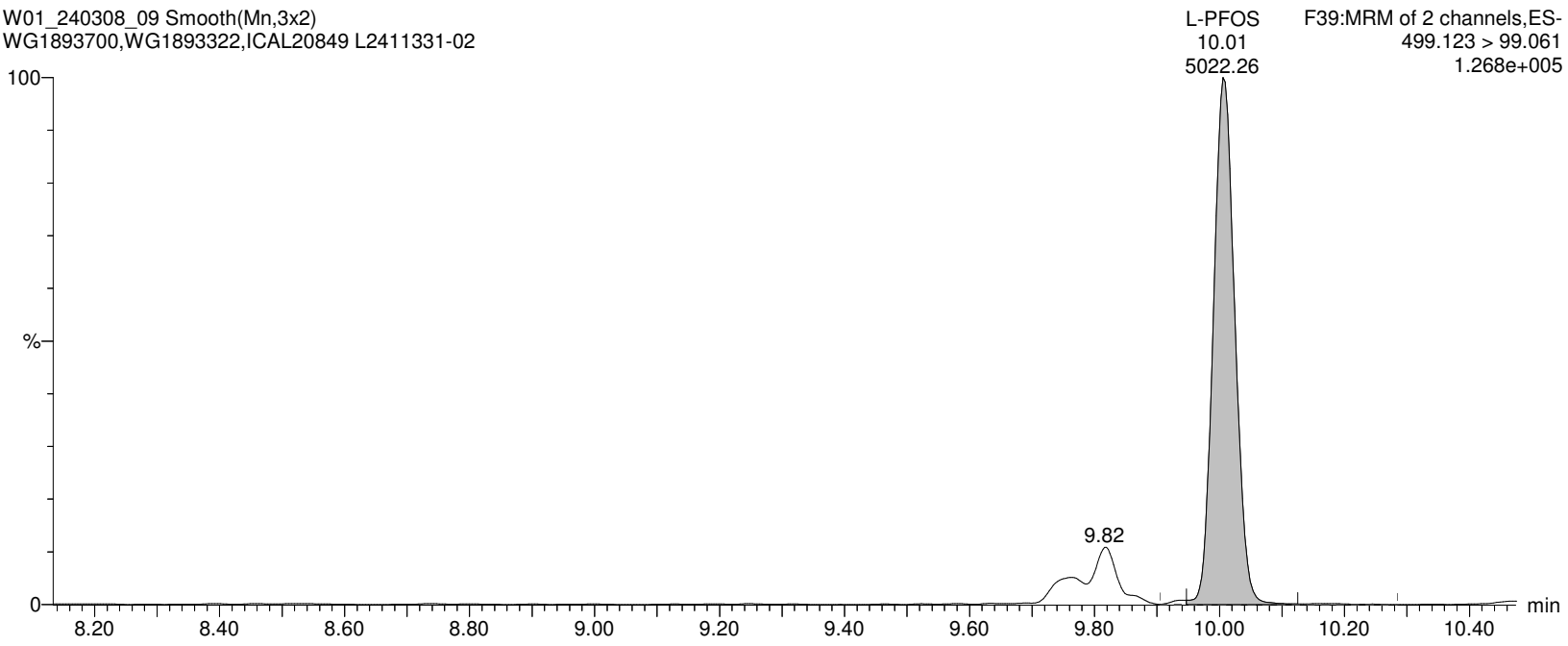

all concentration units in (ng/mL)

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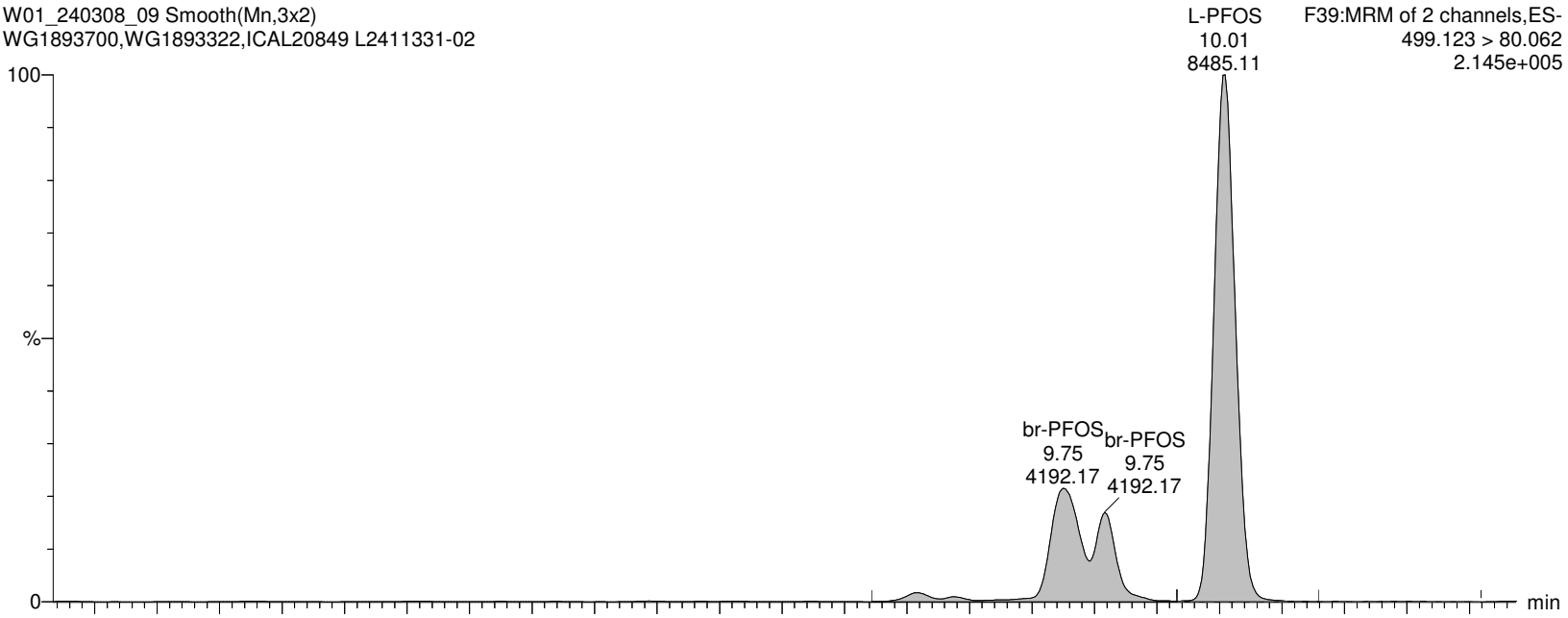

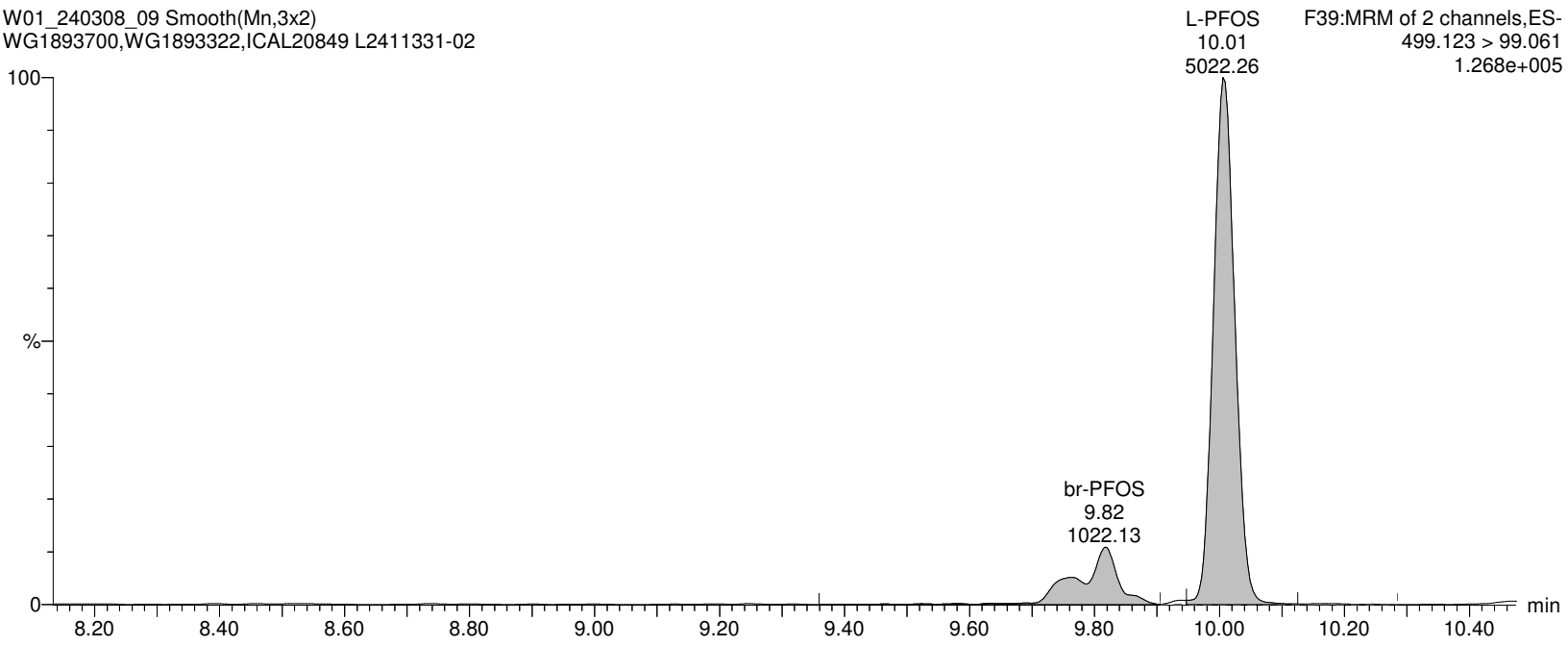

all concentration units in (ng/mL)

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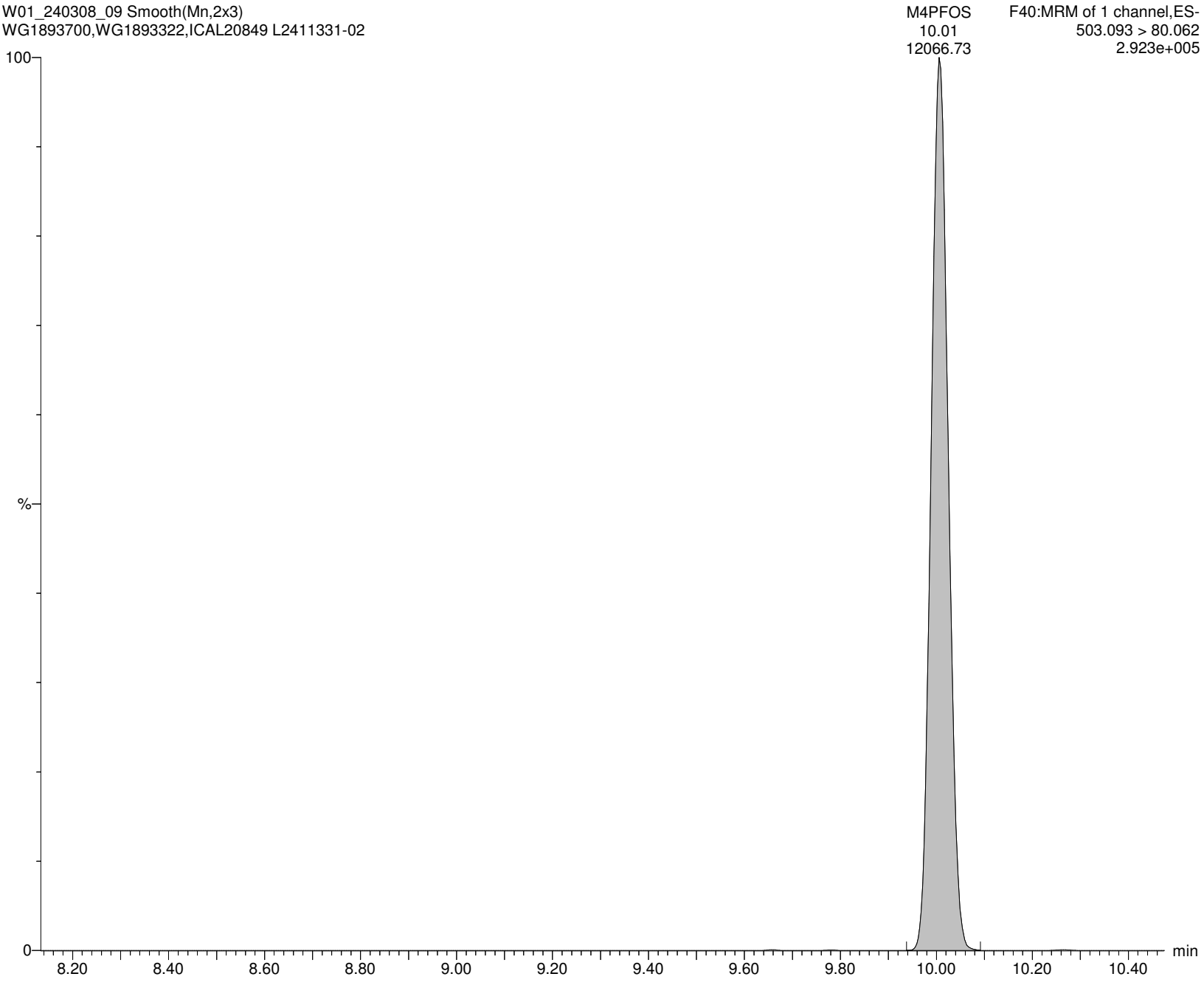
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,4
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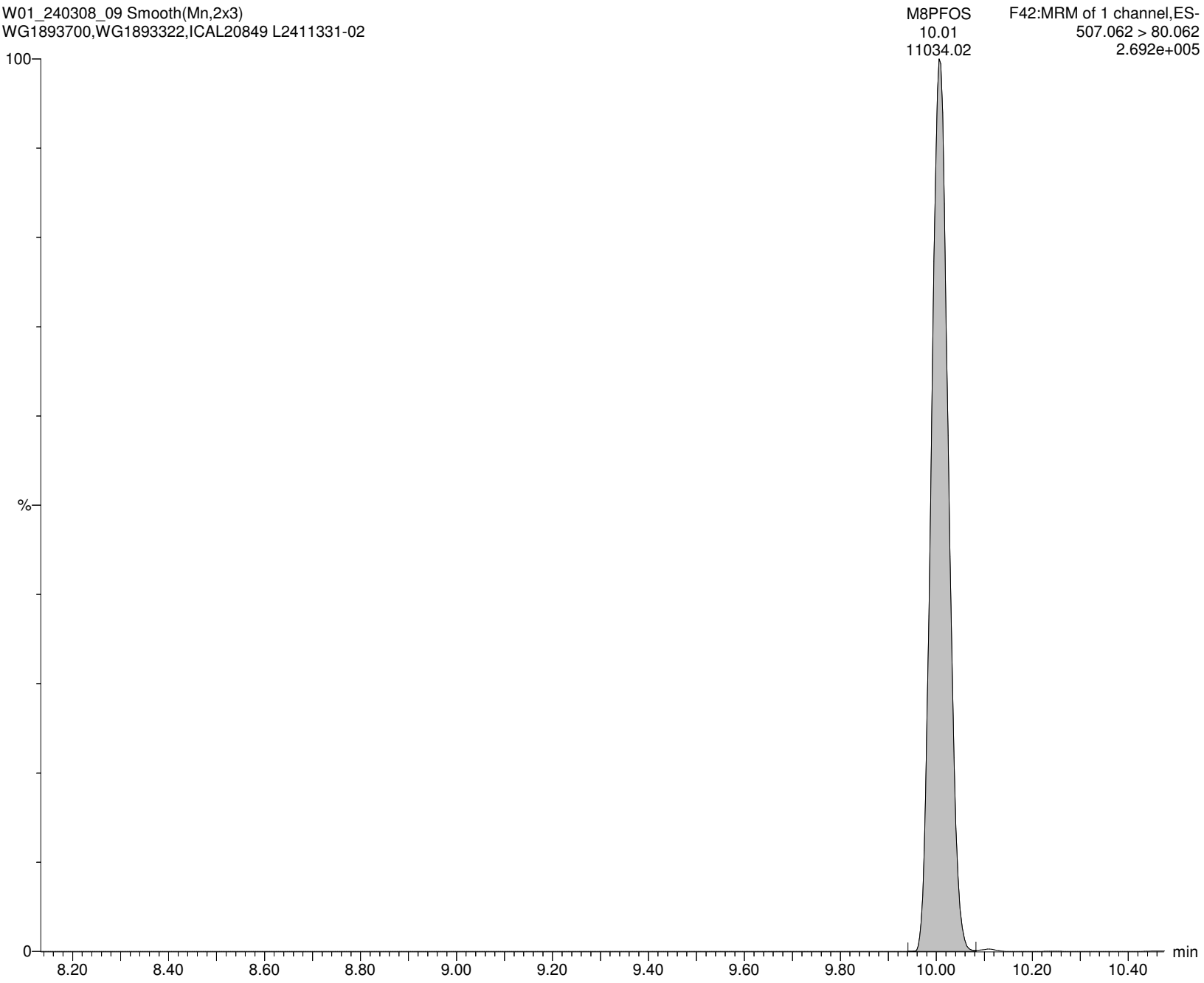

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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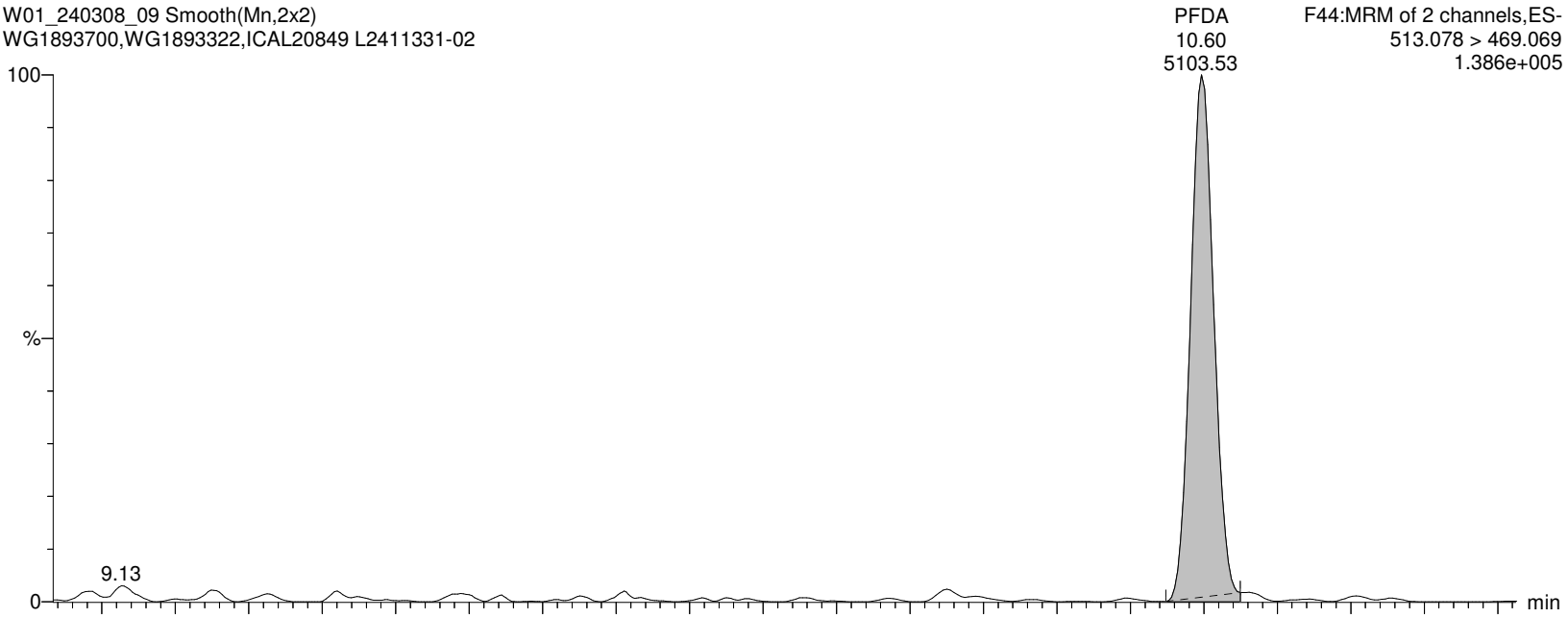

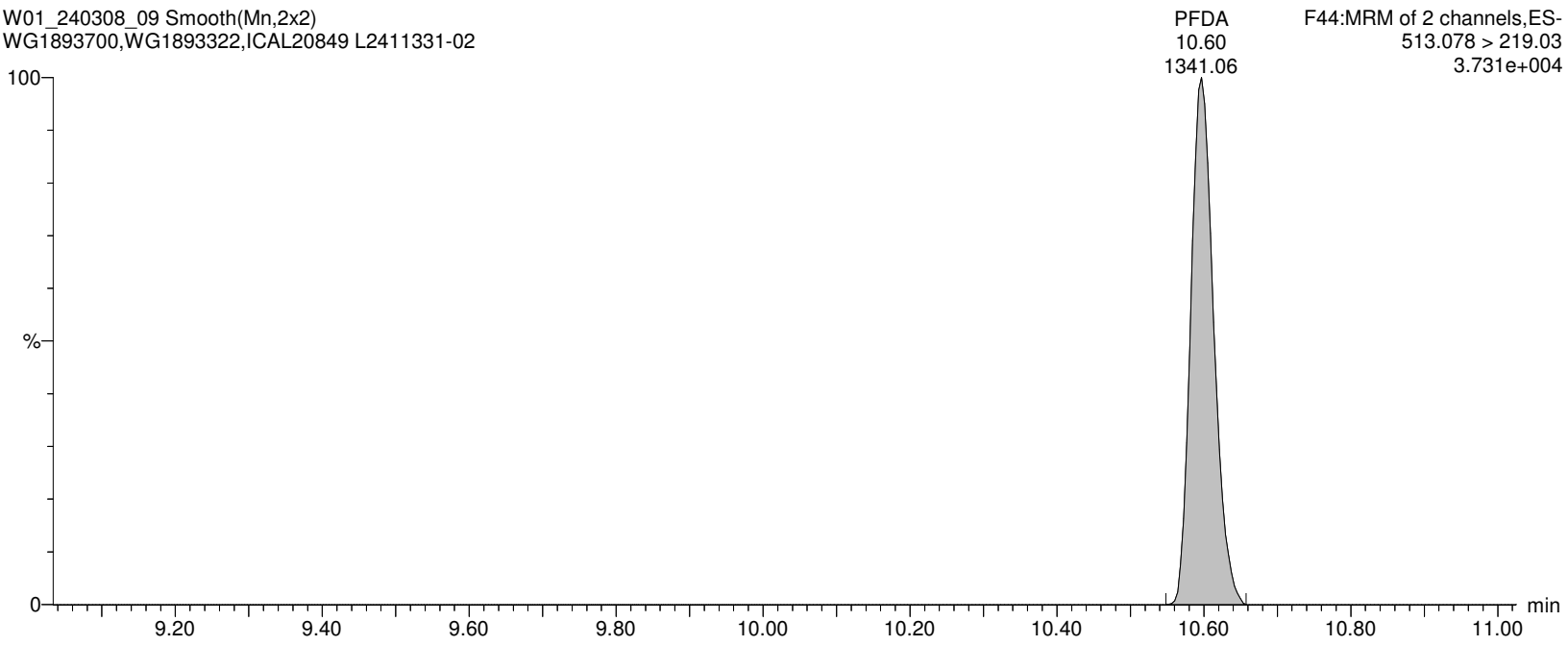

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Name: W01_240308_09
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Vial: 1:B,4
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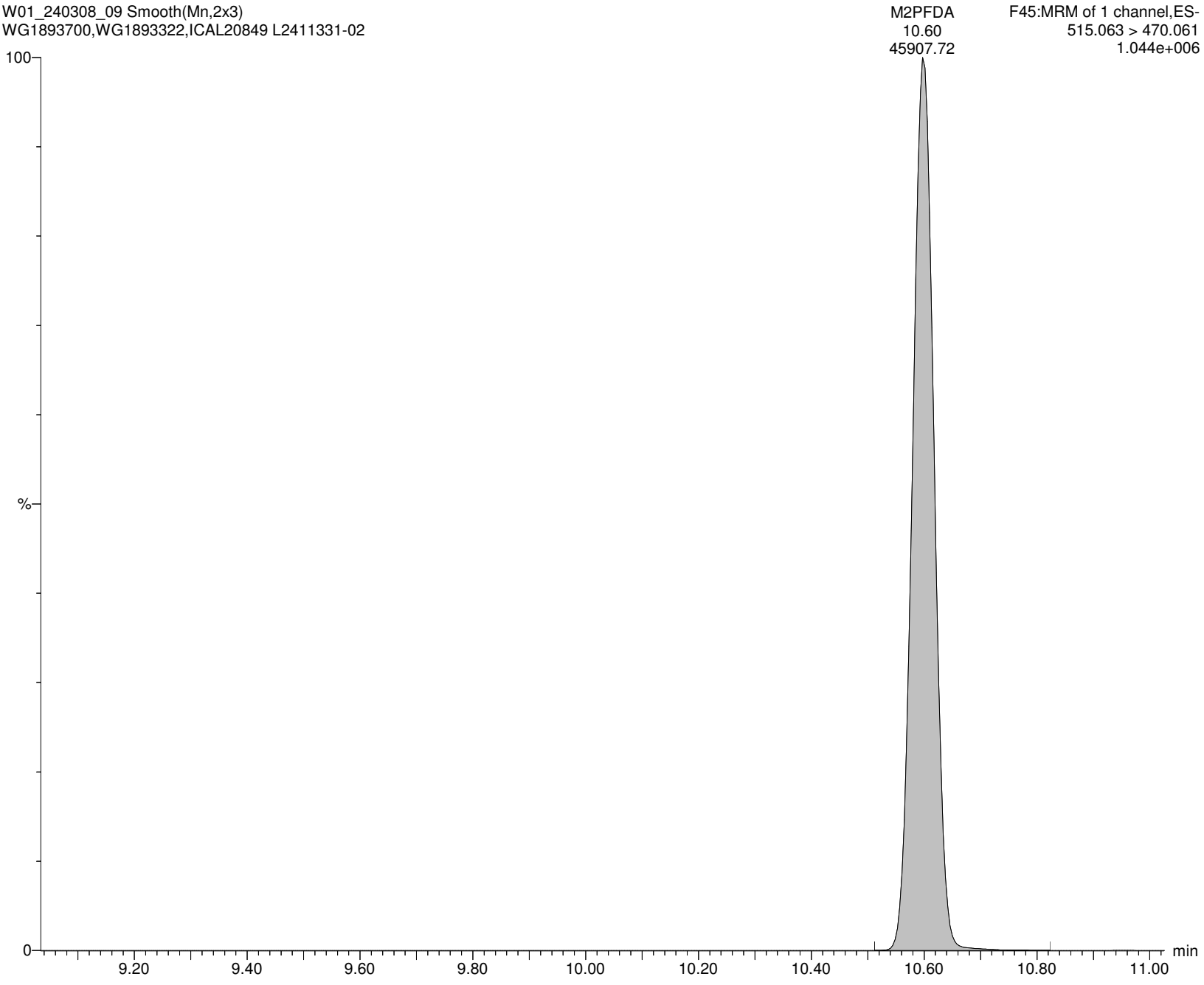

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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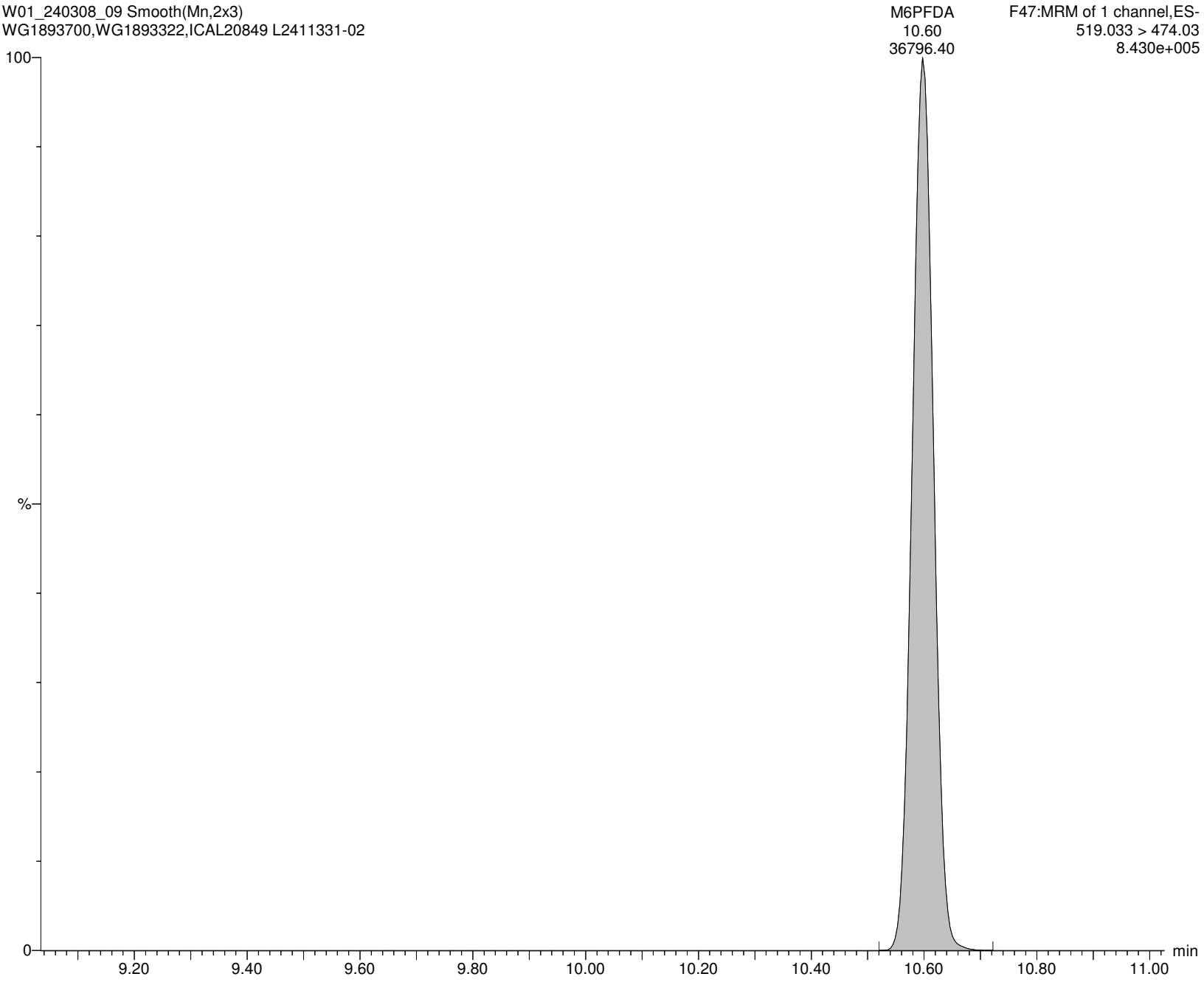

all concentration units in (ng/mL)

Alpha Analytical Inc.
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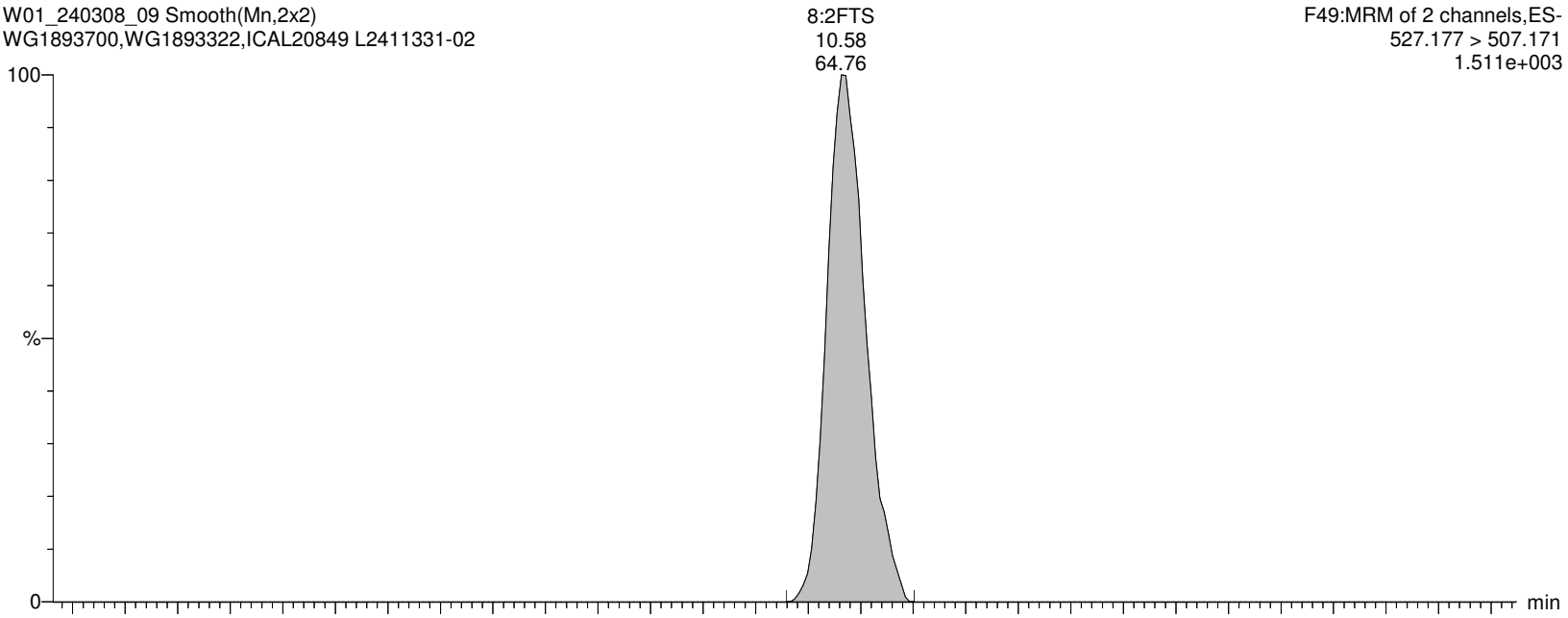
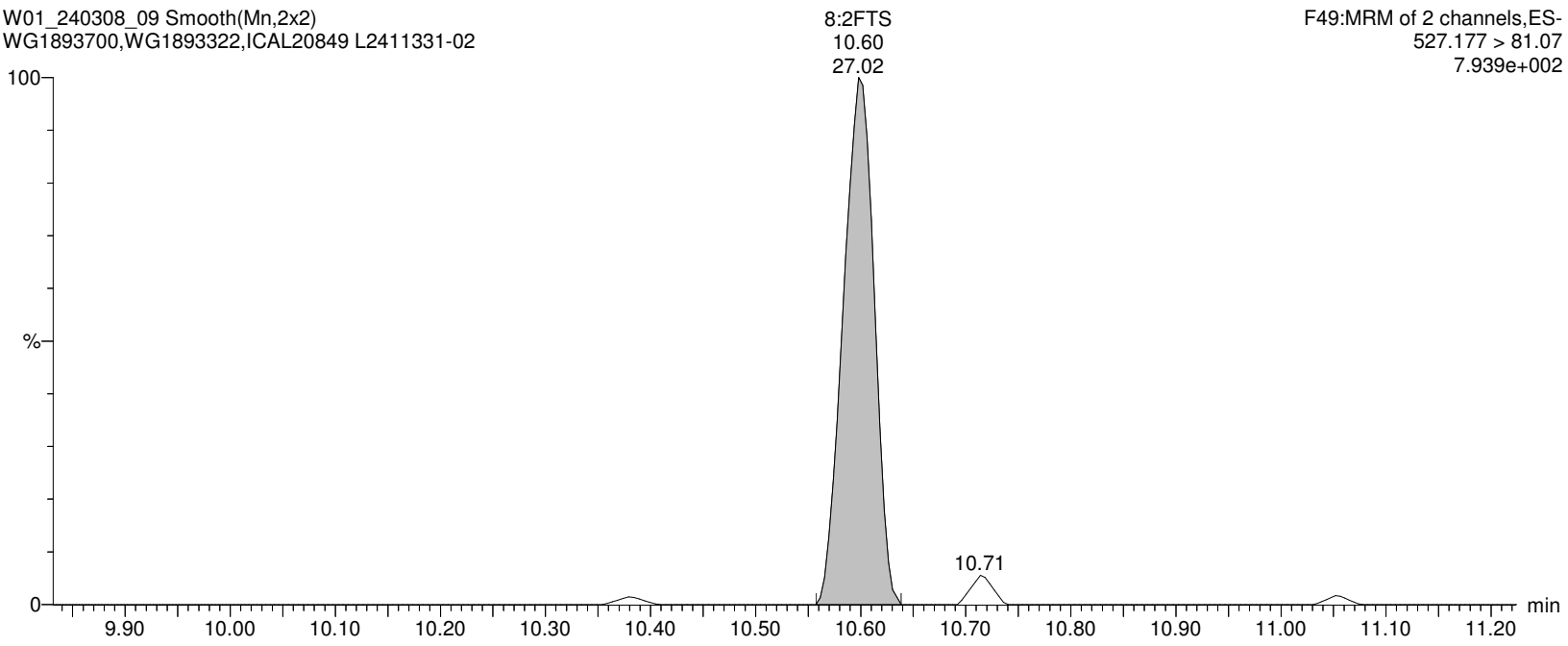
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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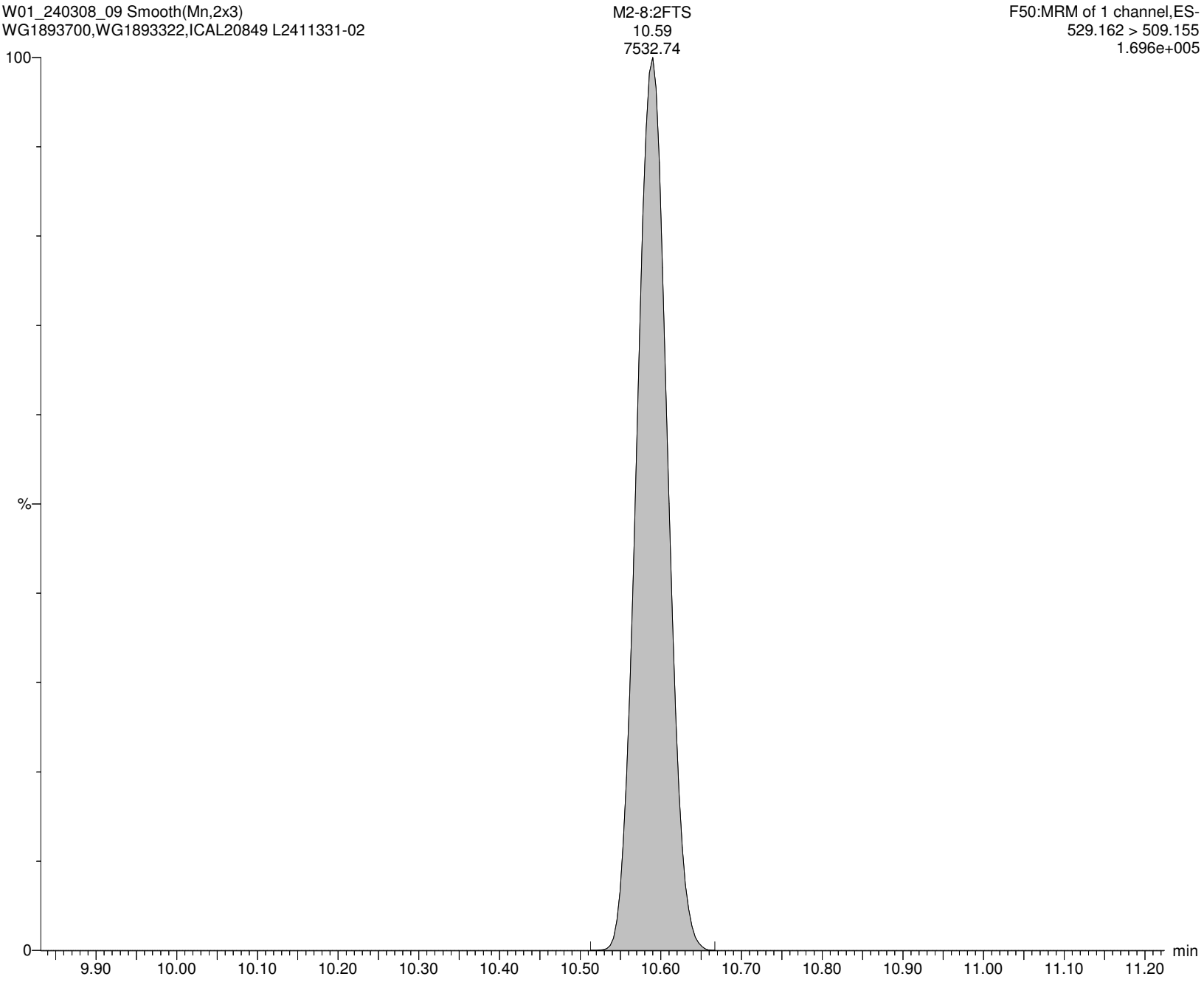

all concentration units in (ng/mL)

Alpha Analytical Inc.
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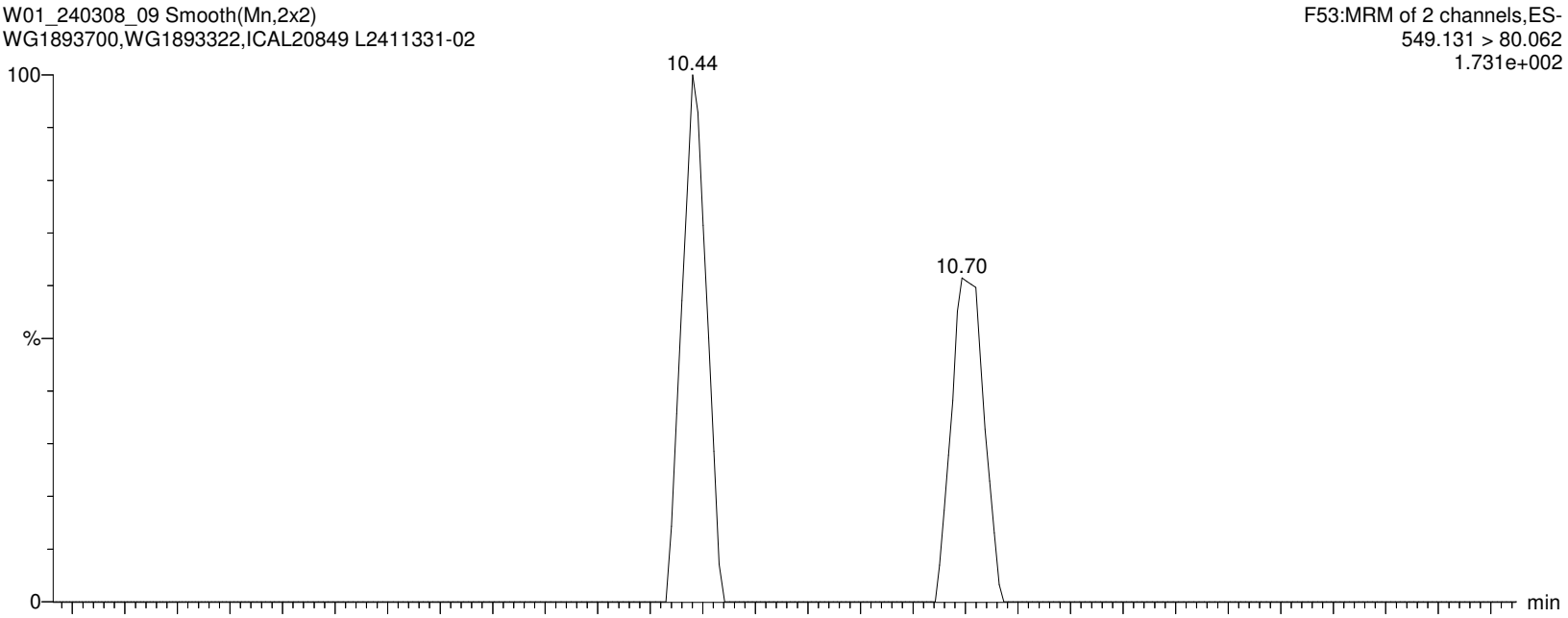
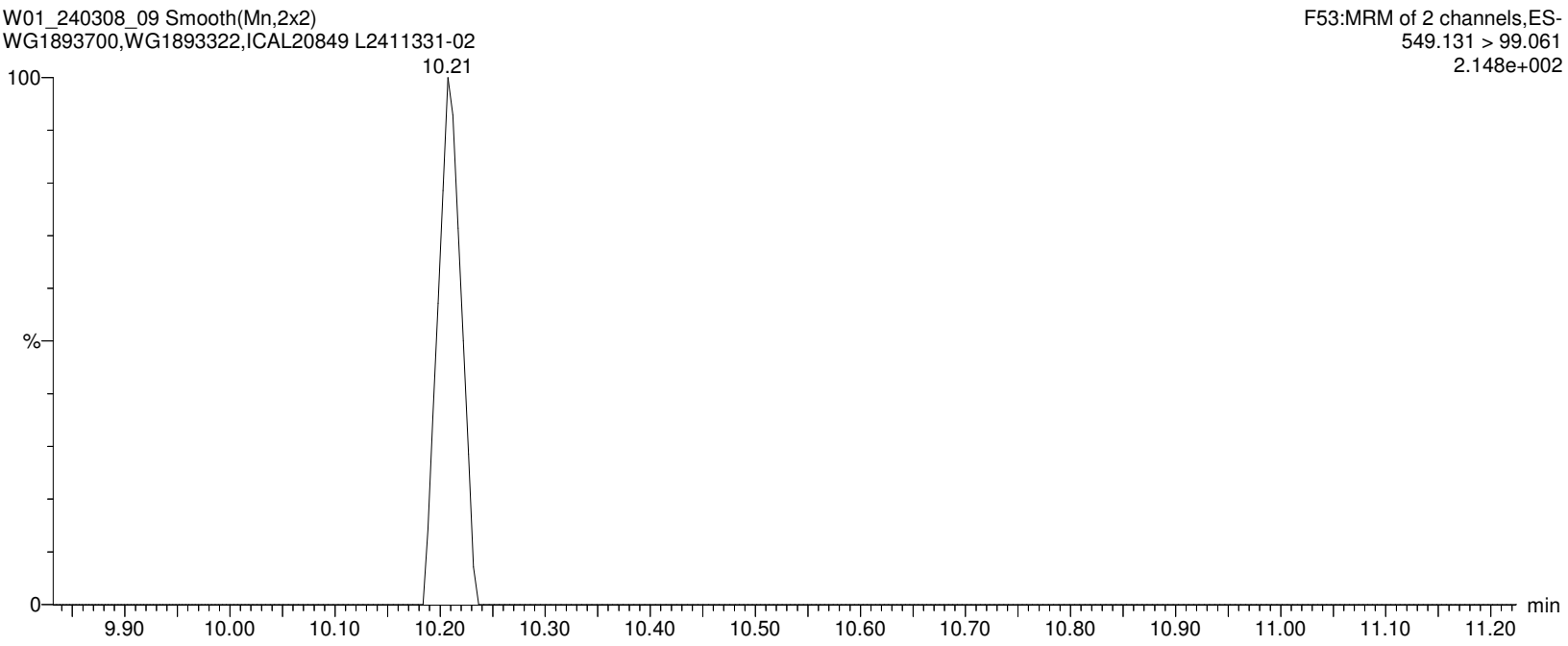
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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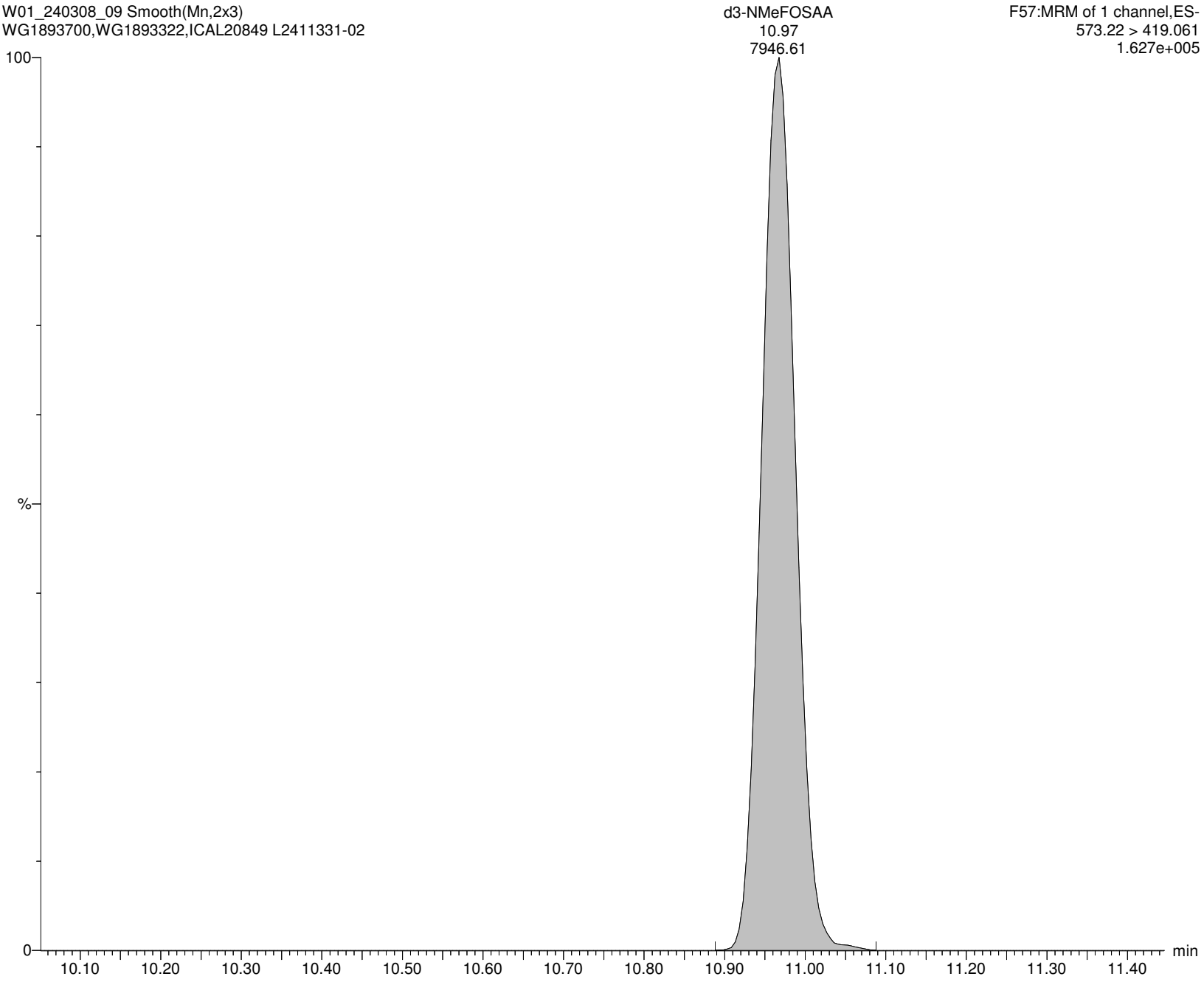

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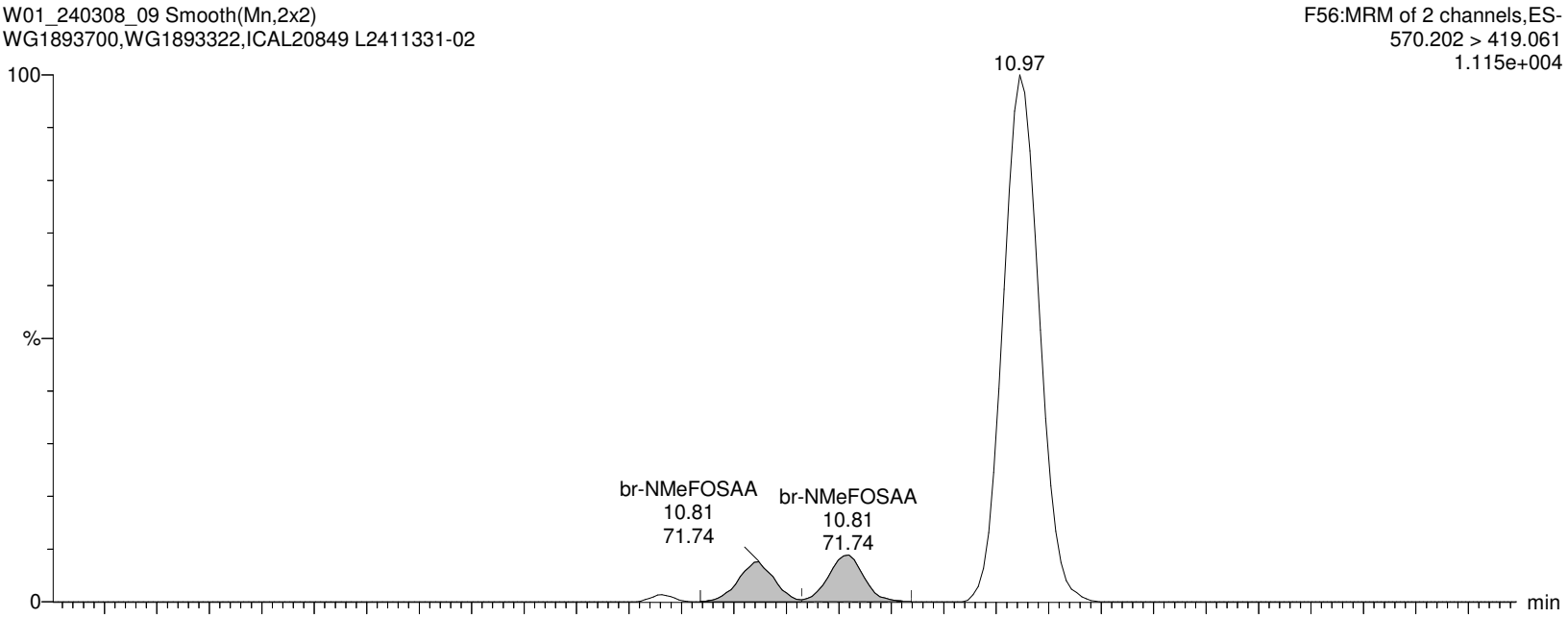

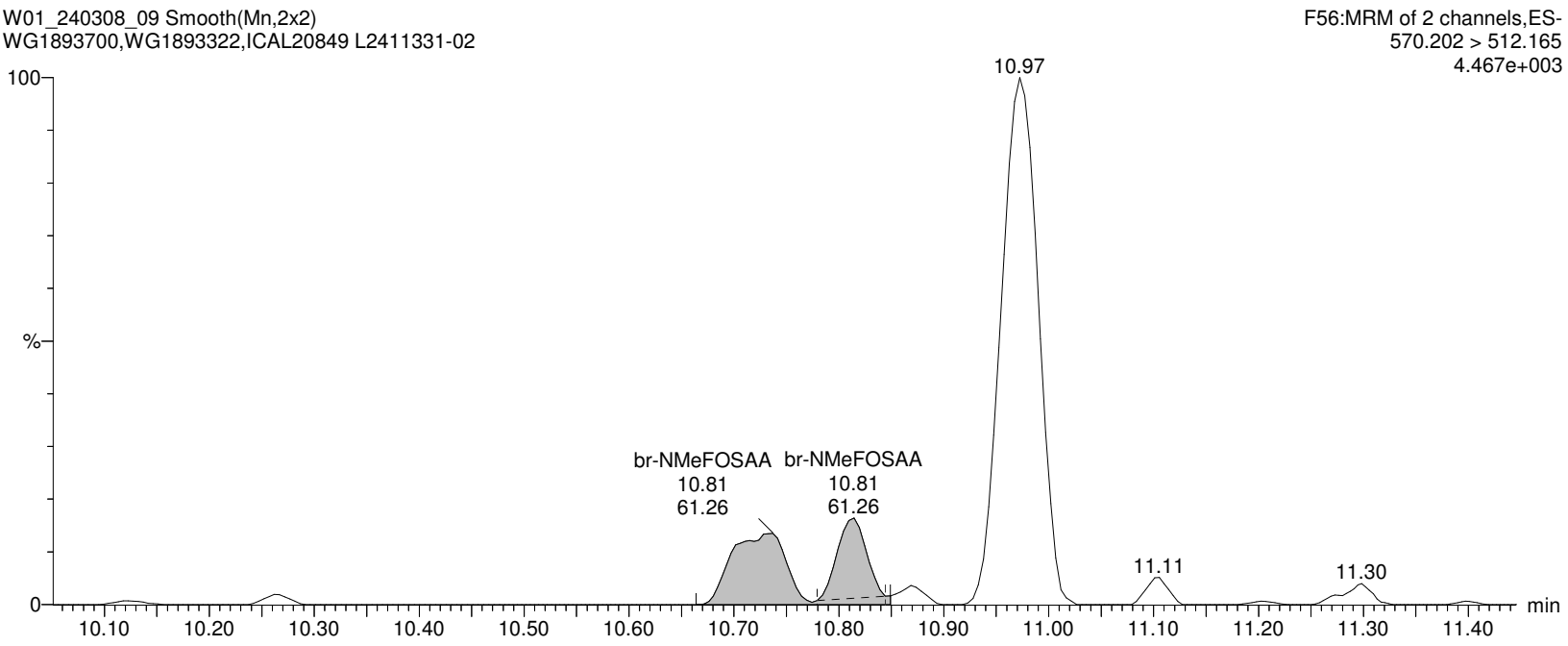

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:38 Eastern Standard Time

Name: W01_240308_09
ID: L2411331-02
Date: 08-Mar-2024
Time: 07:16:12
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,4
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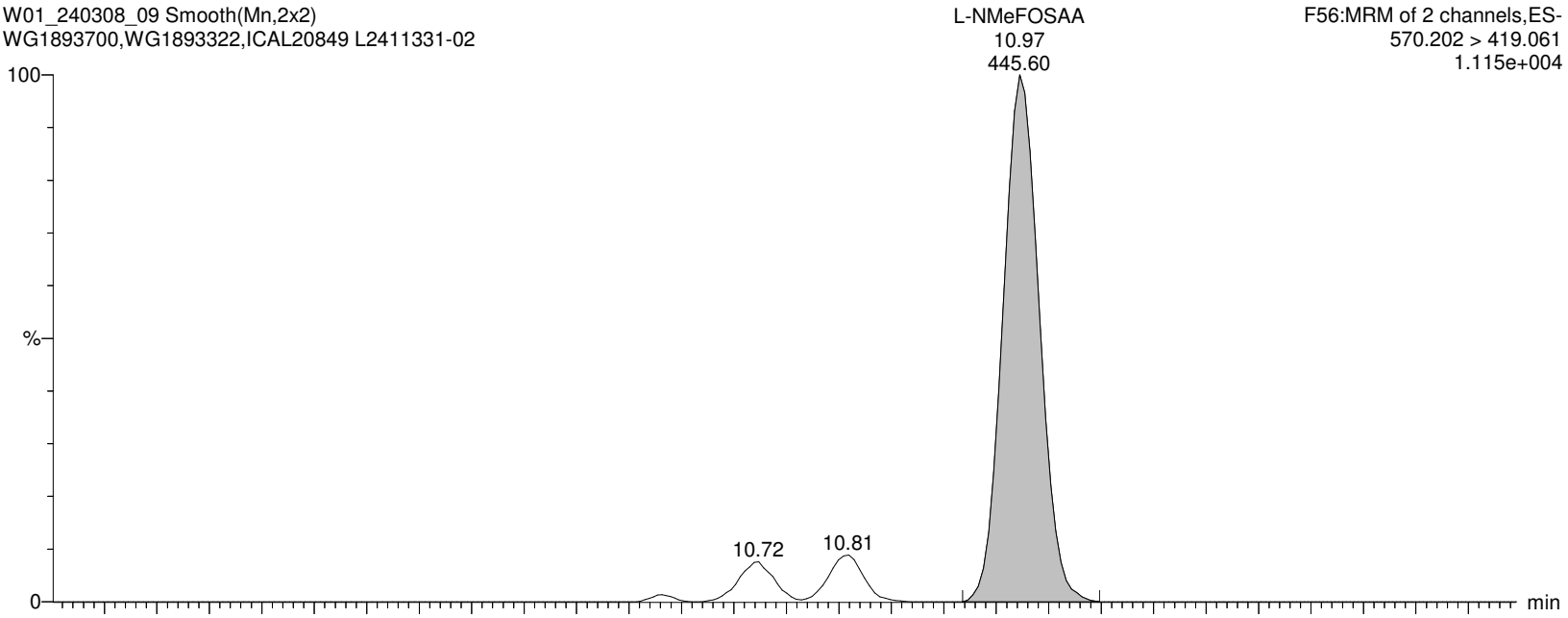

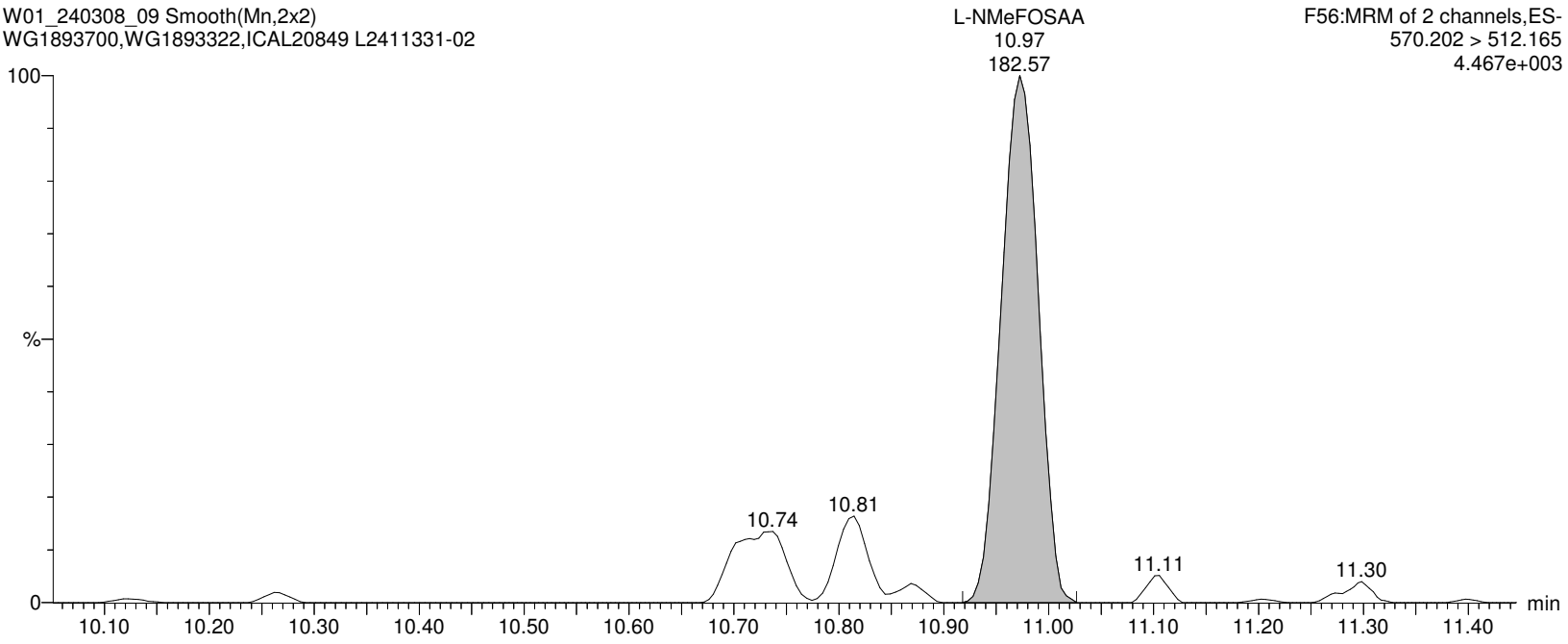

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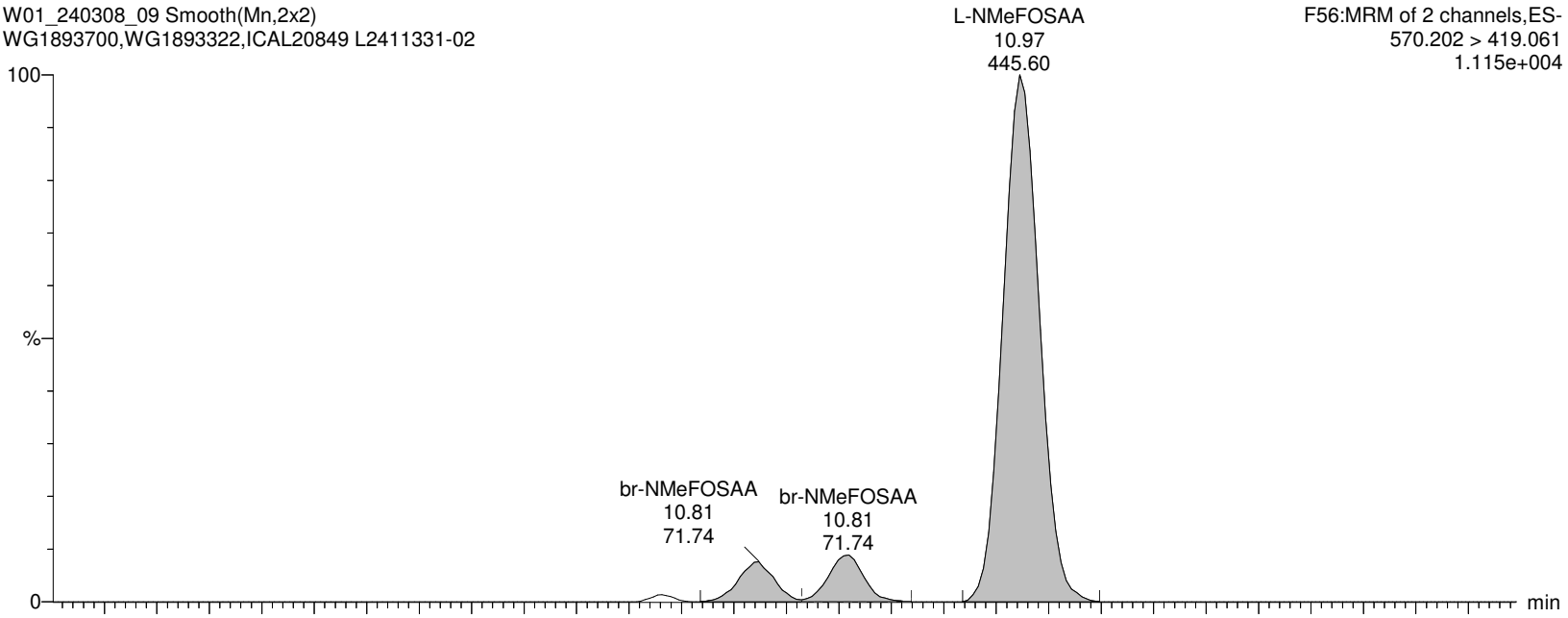

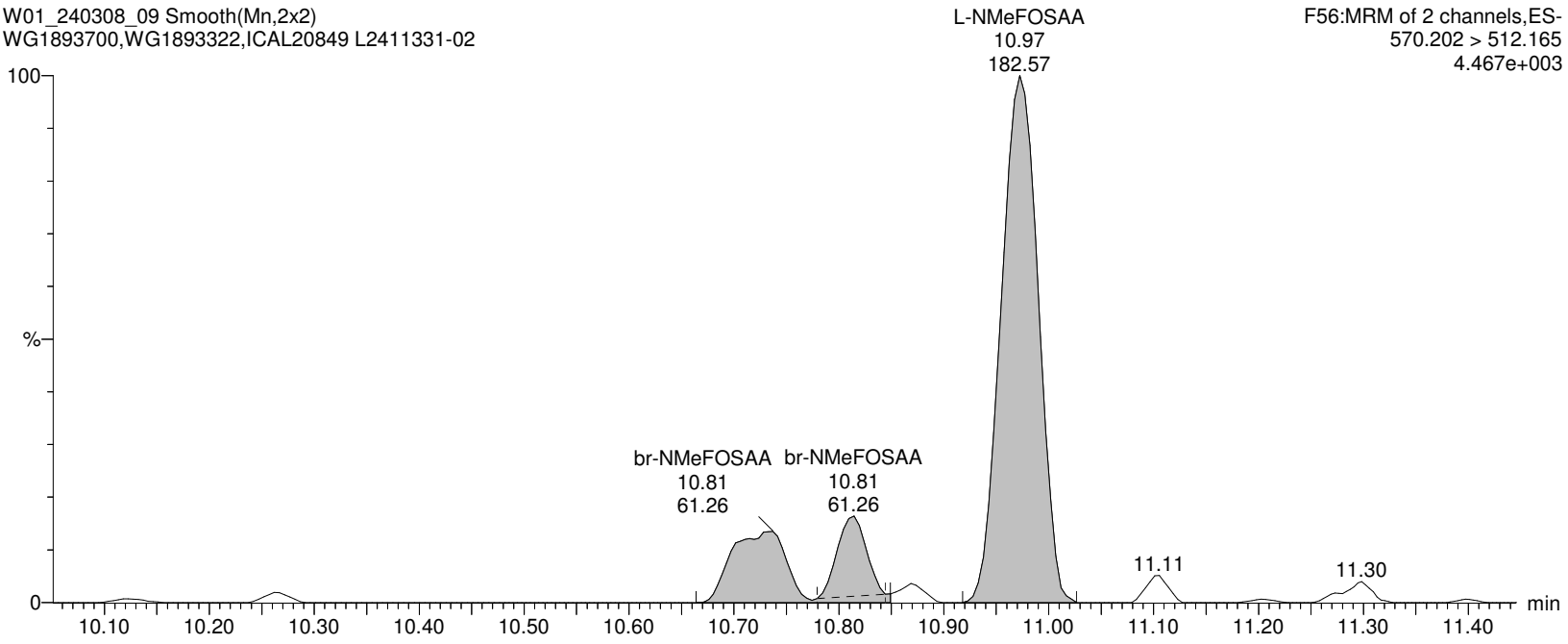

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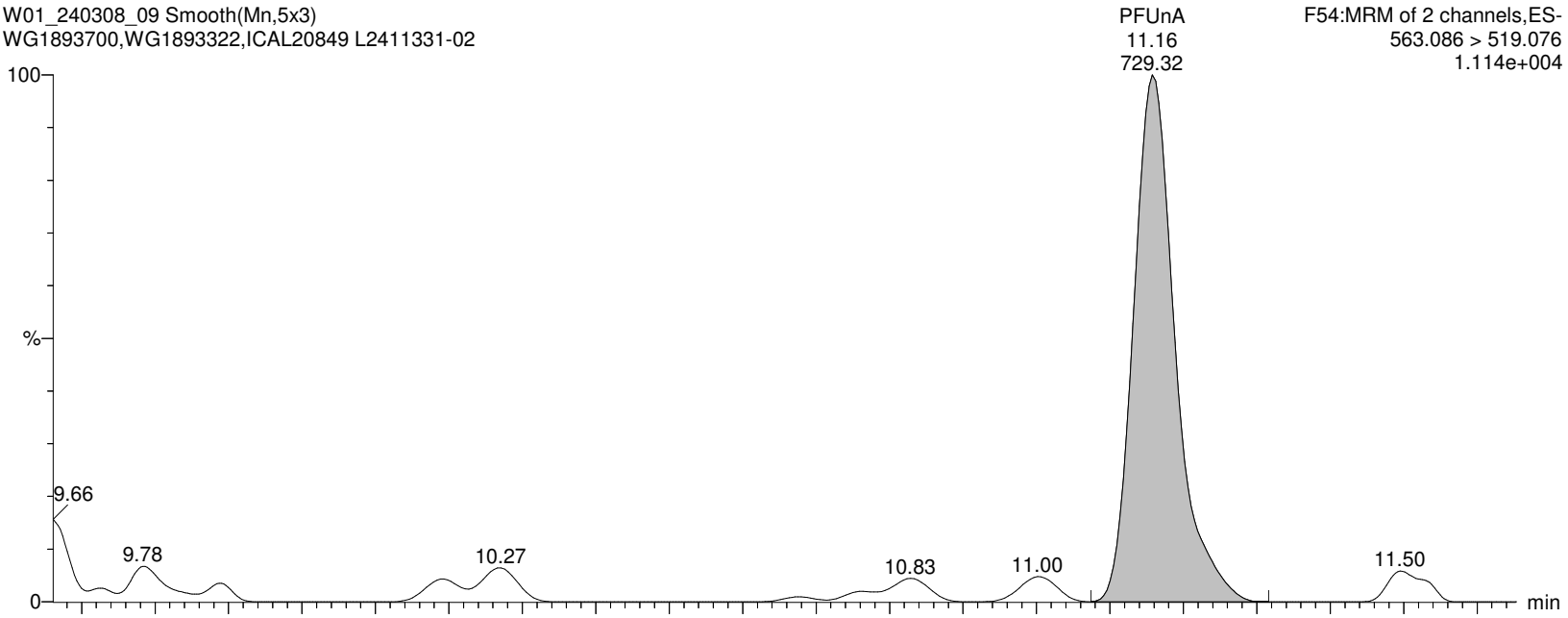

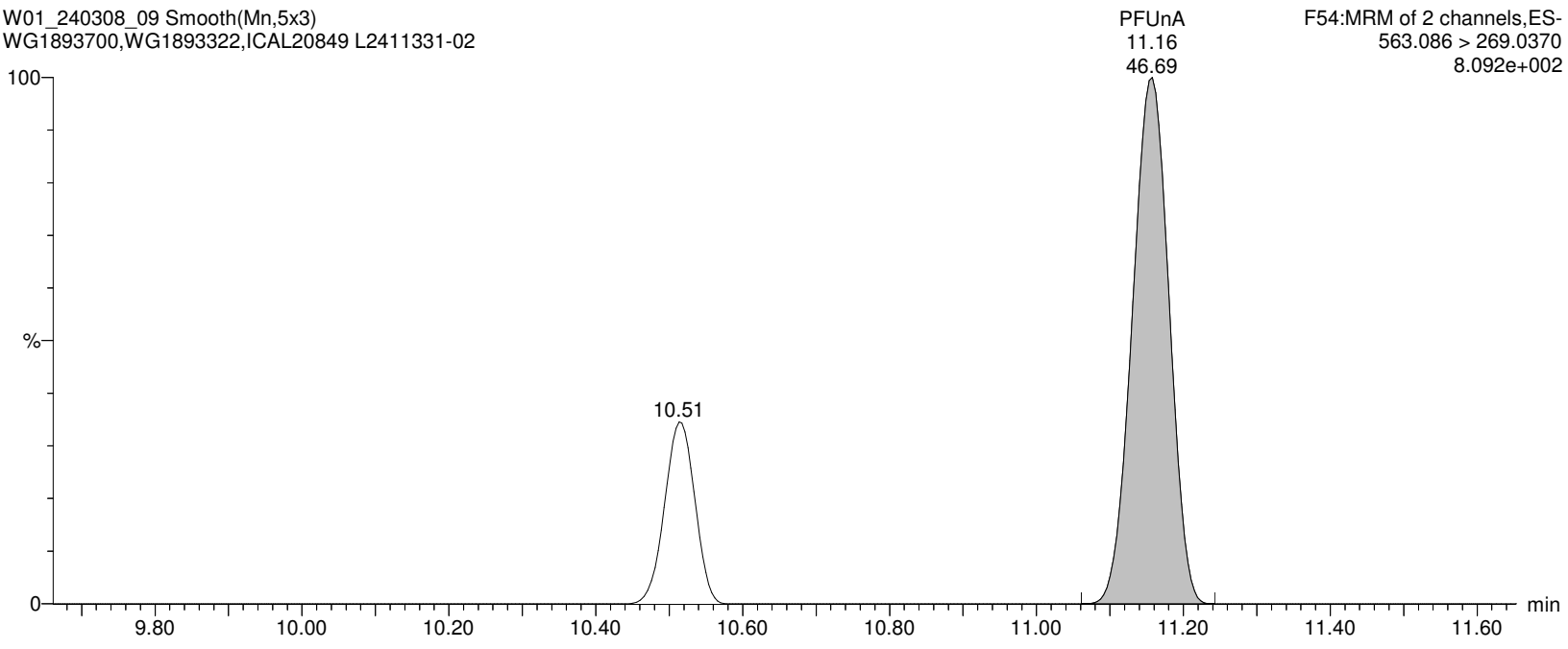

all concentration units in (ng/mL)

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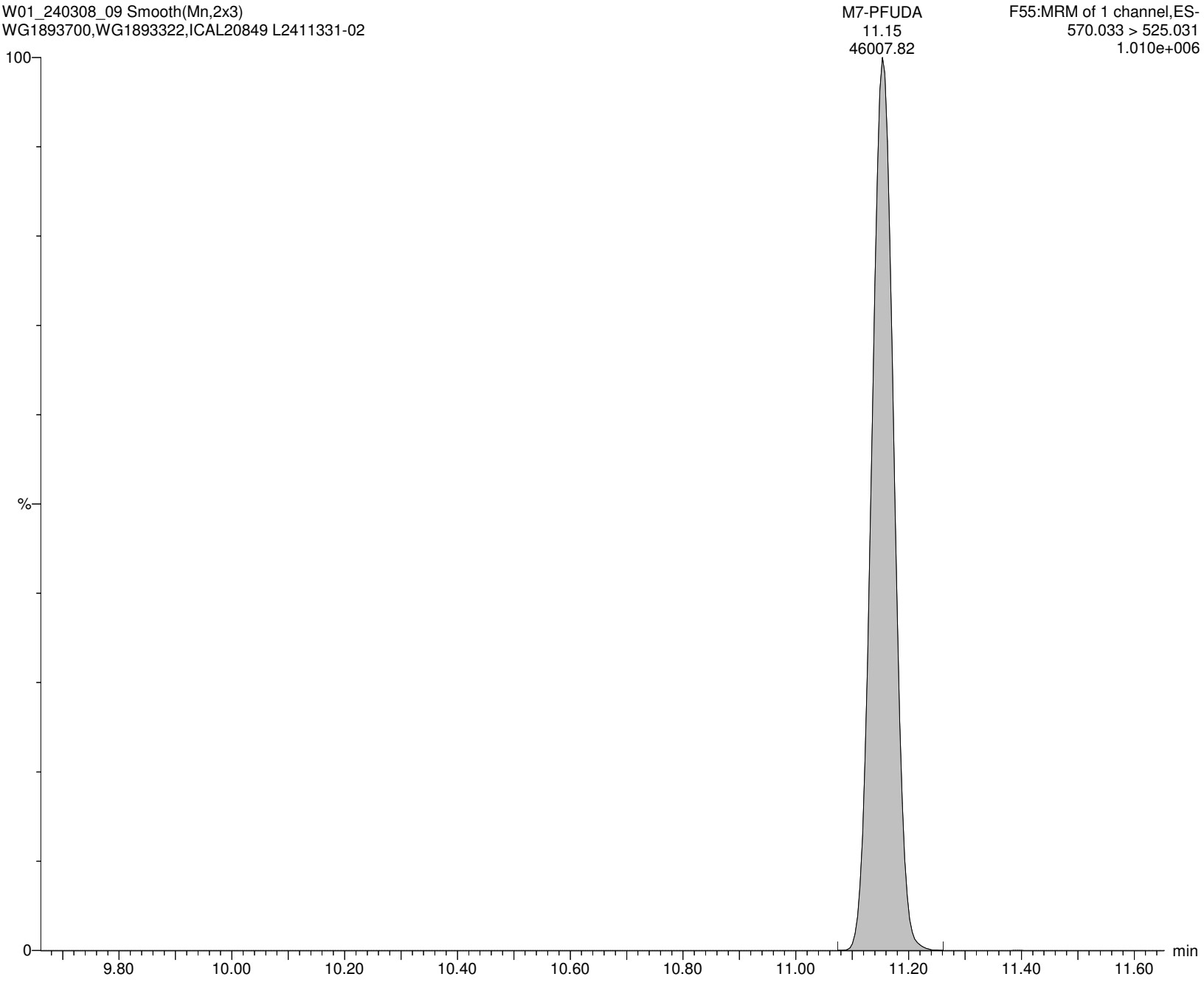

all concentration units in (ng/mL)

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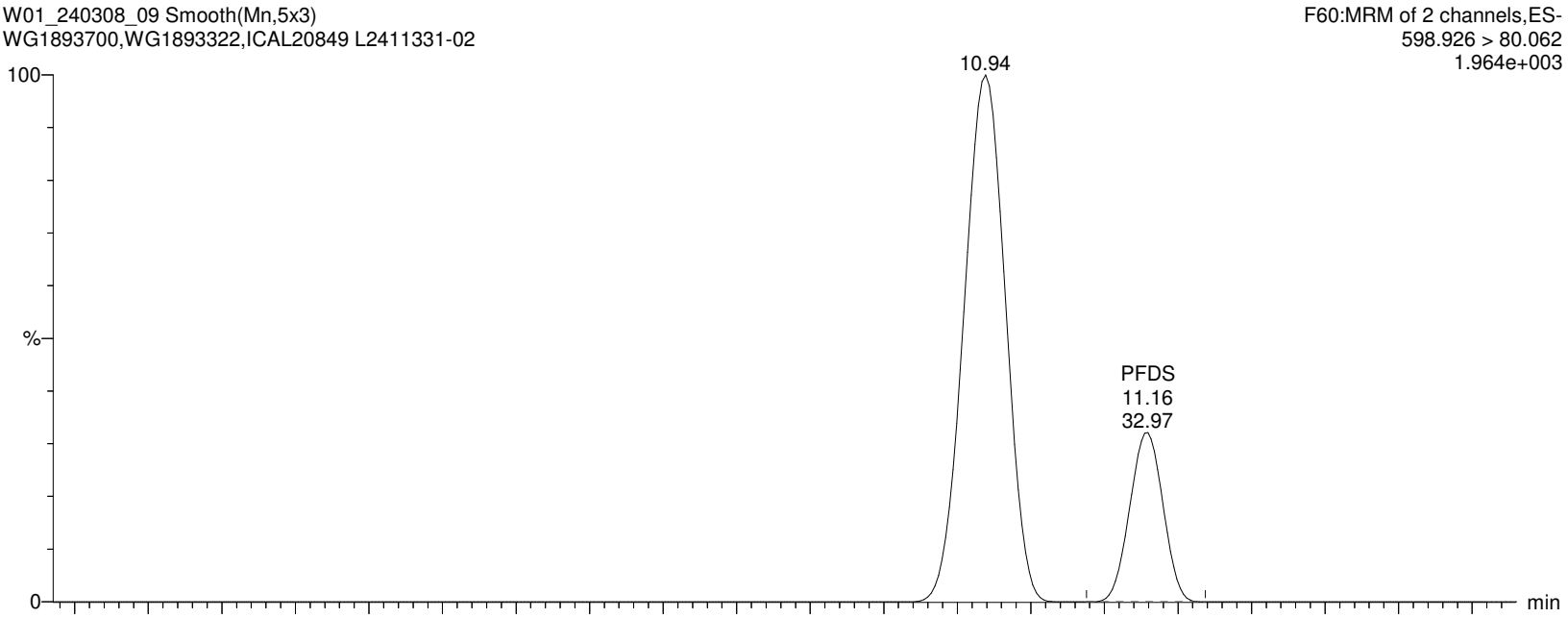

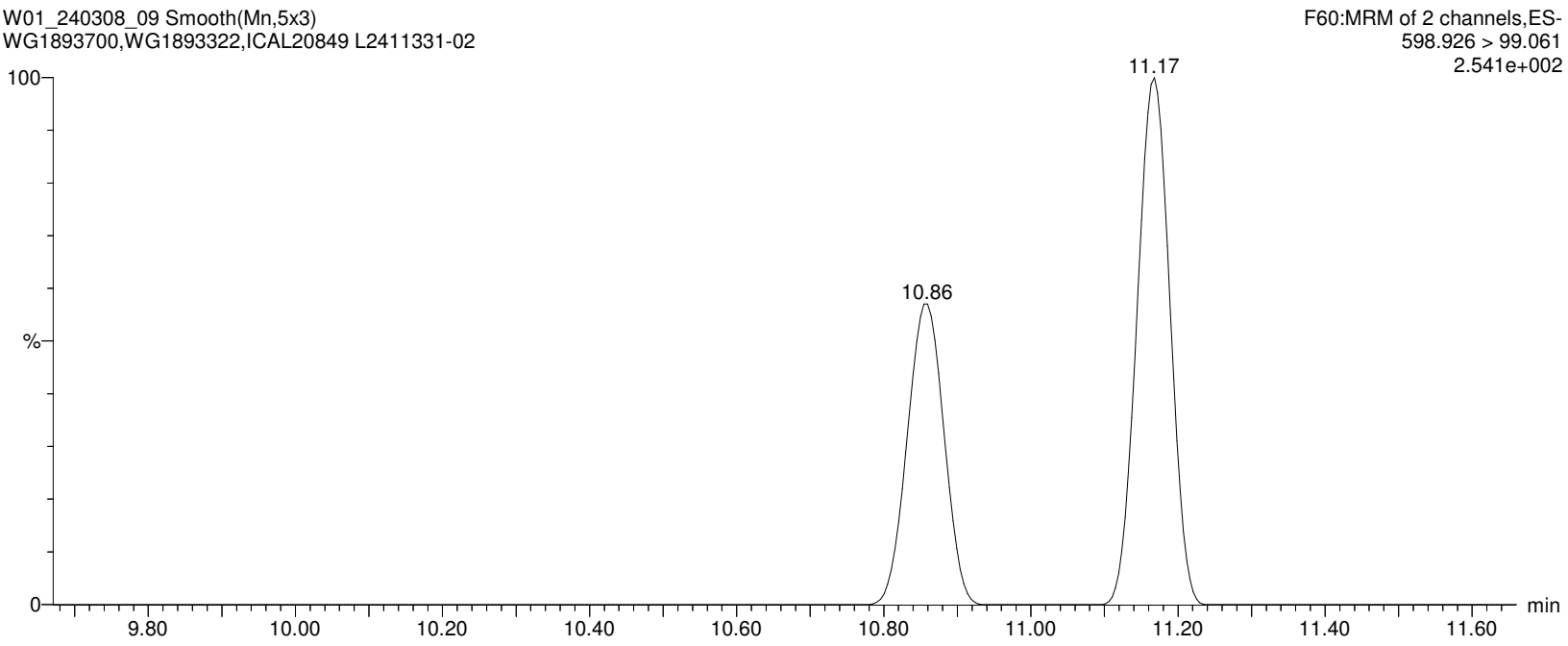

all concentration units in (ng/mL)

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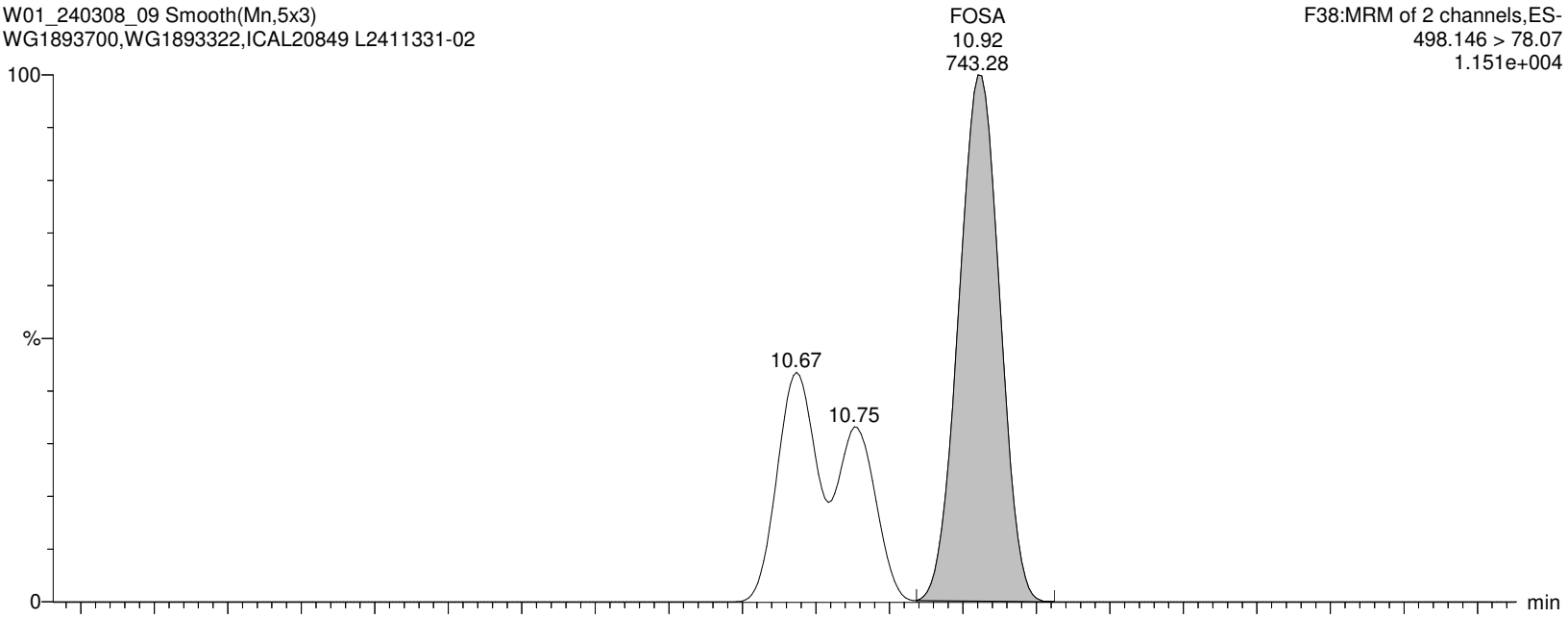

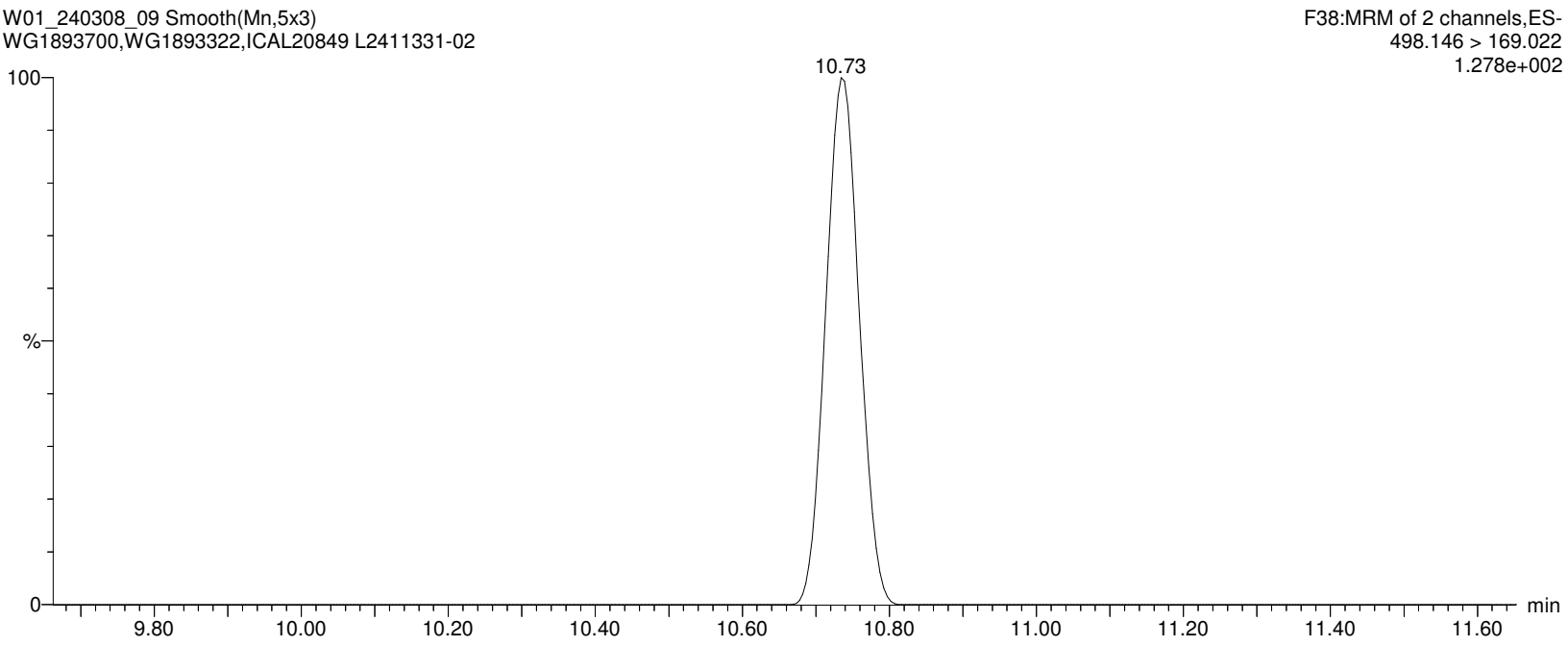

all concentration units in (ng/mL)

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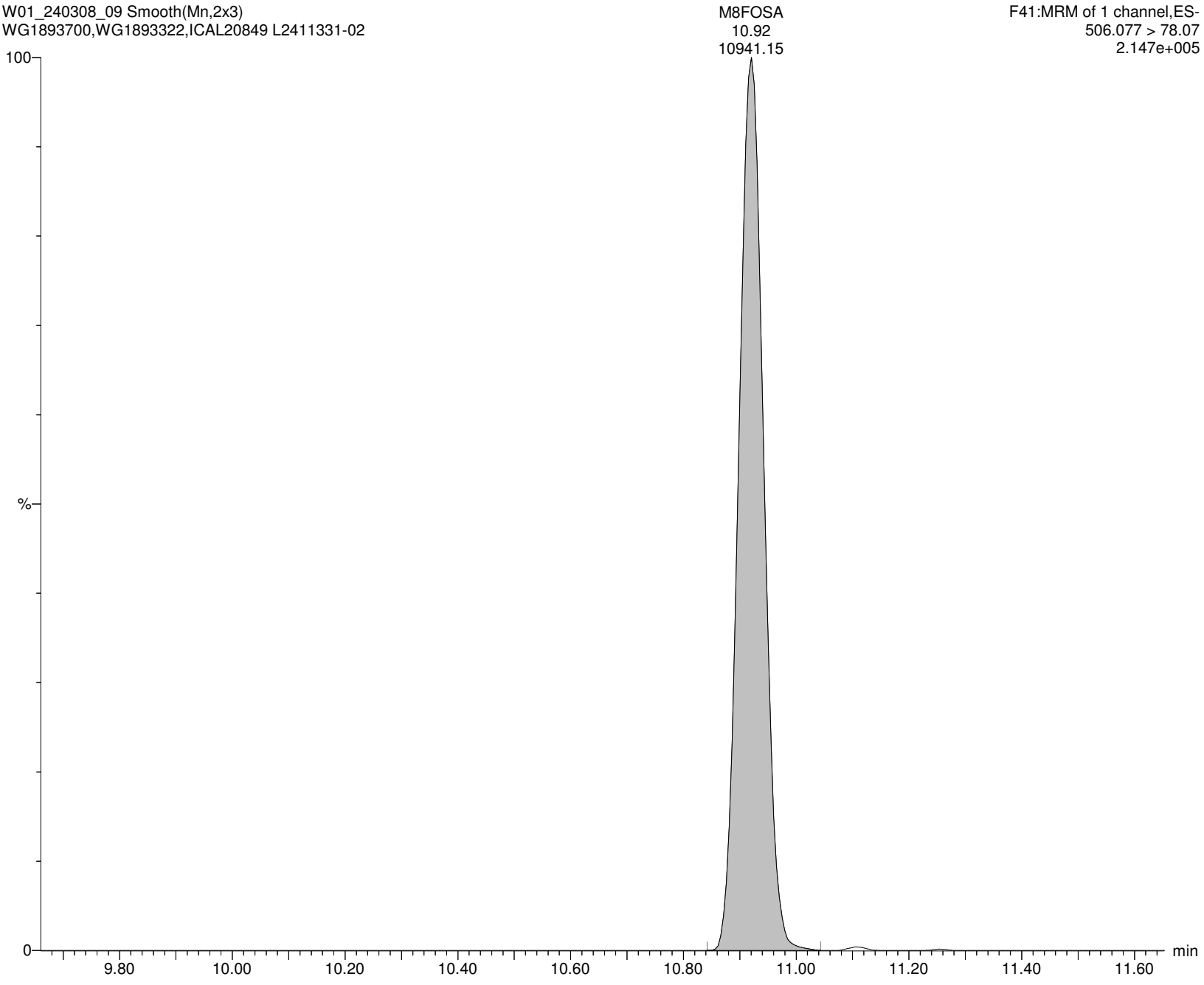

all concentration units in (ng/mL)

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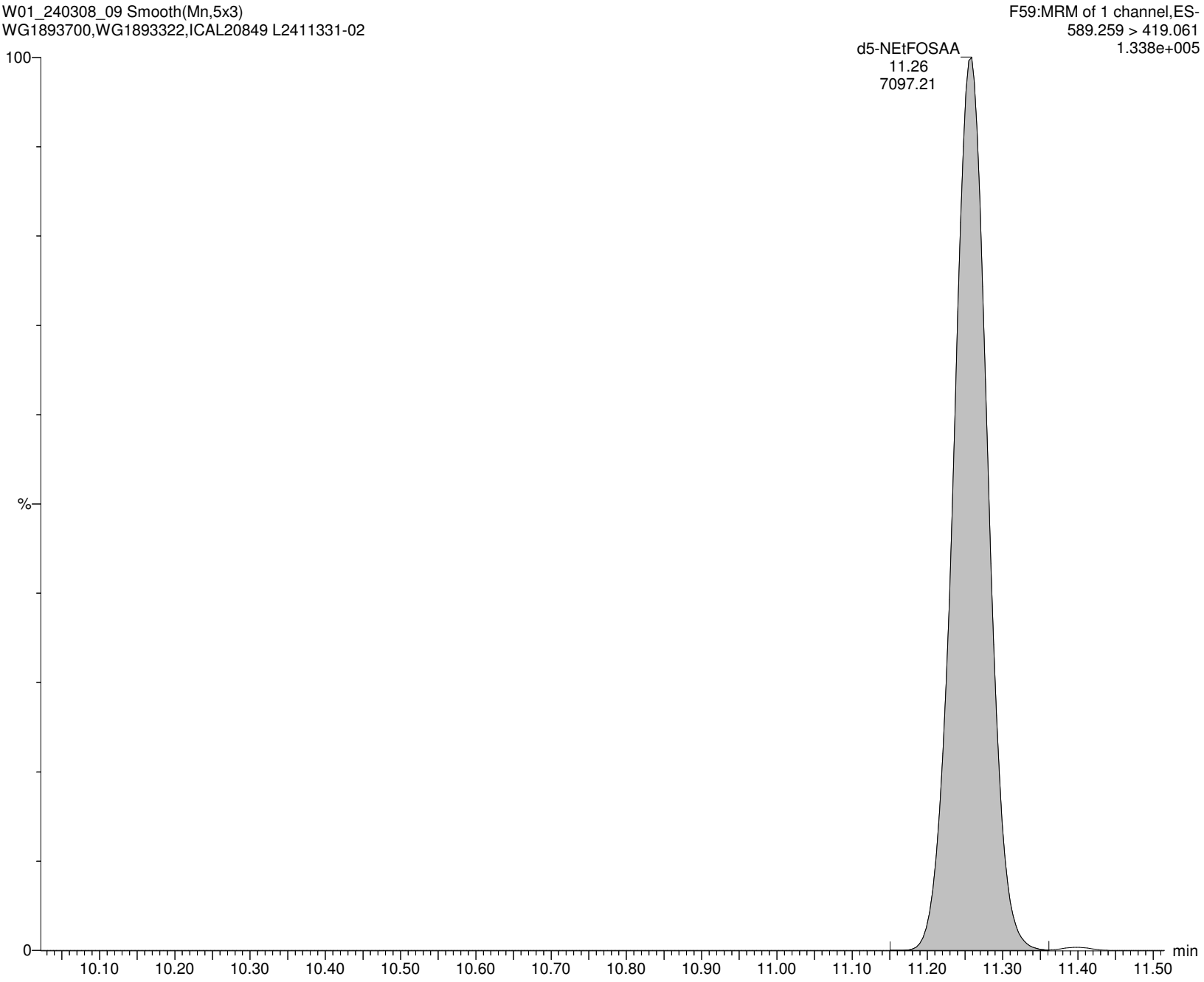

all concentration units in (ng/mL)

Alpha Analytical Inc.
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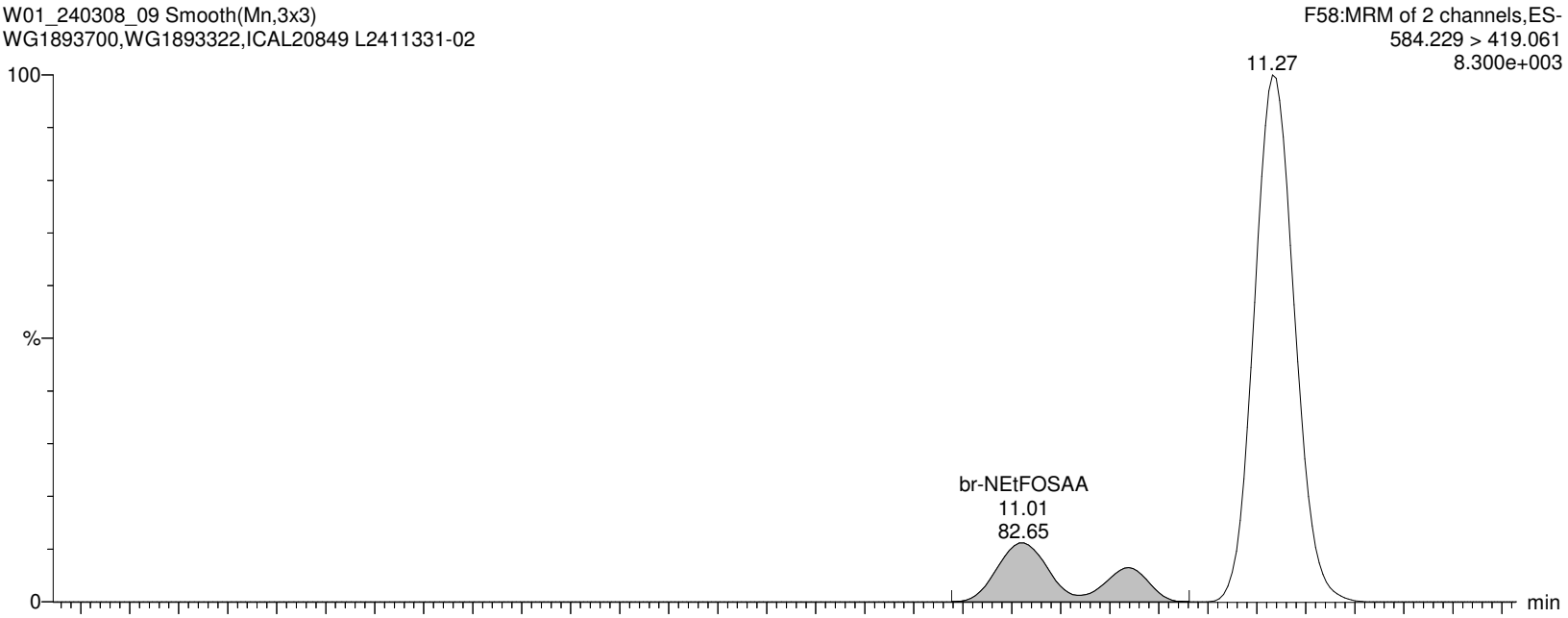

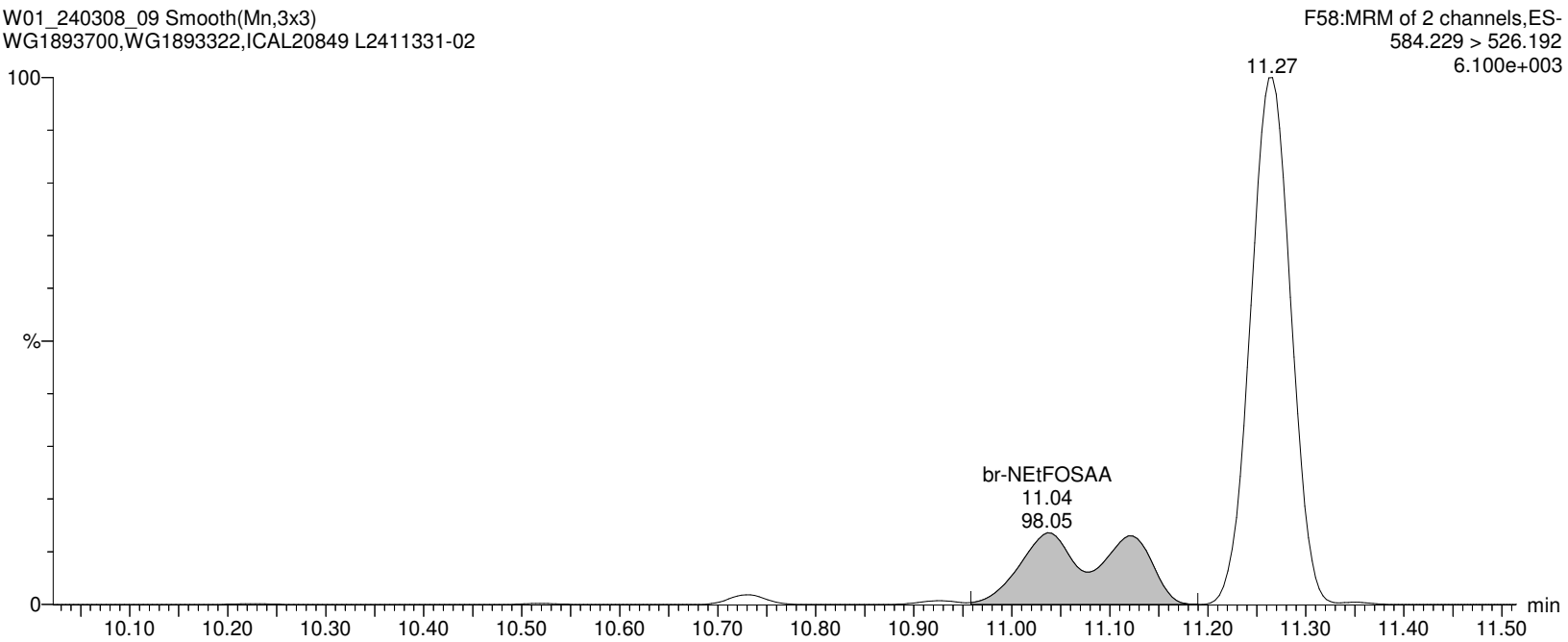

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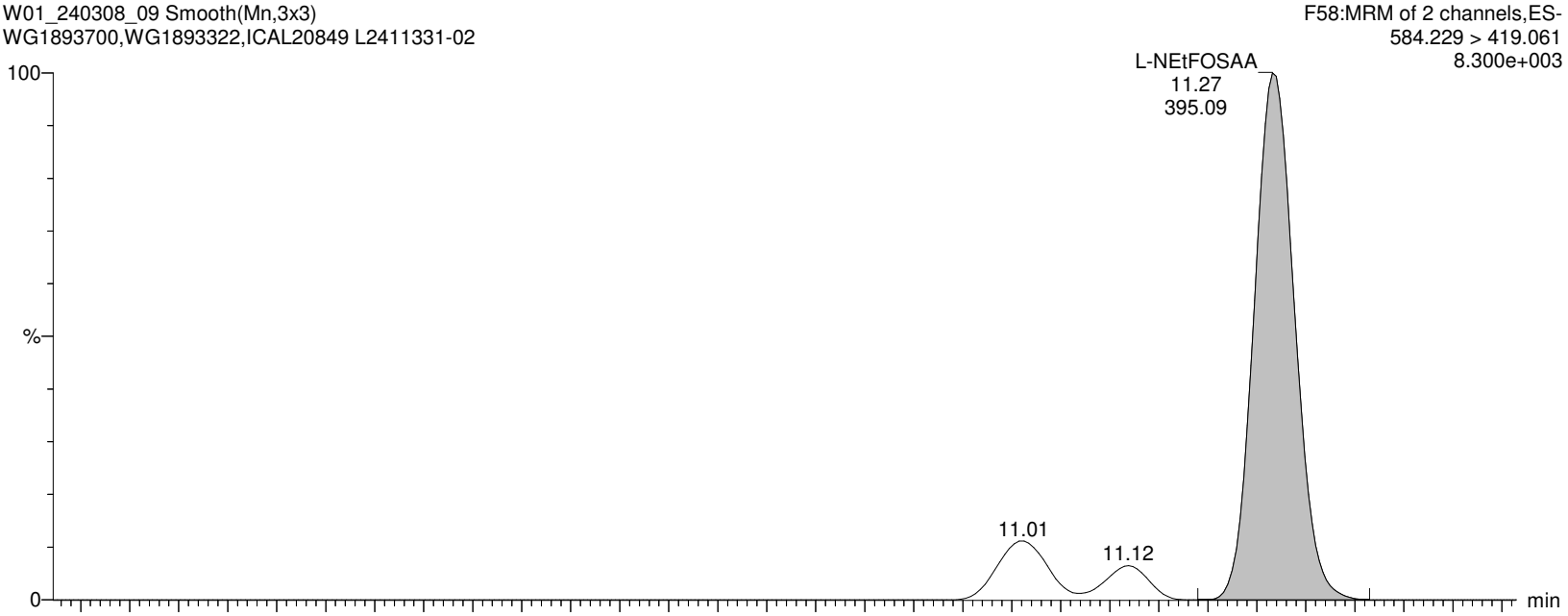

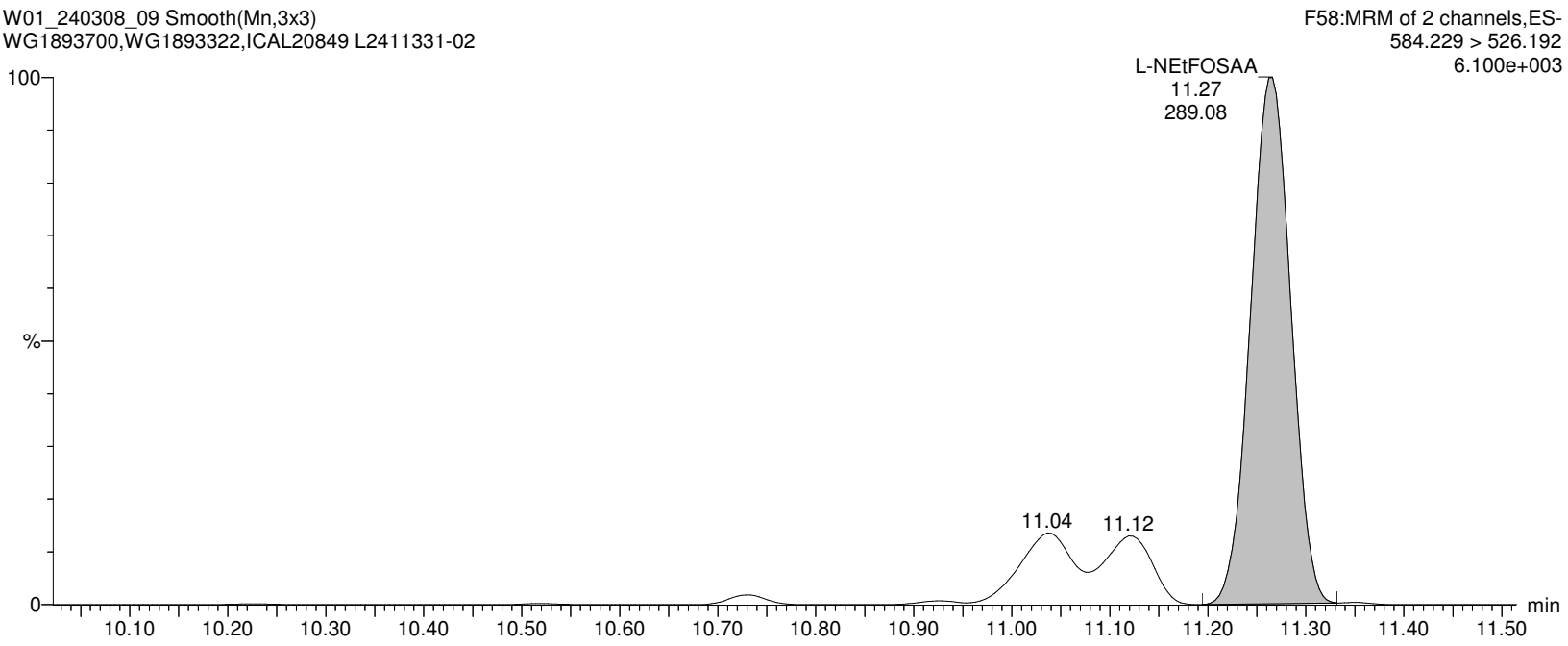

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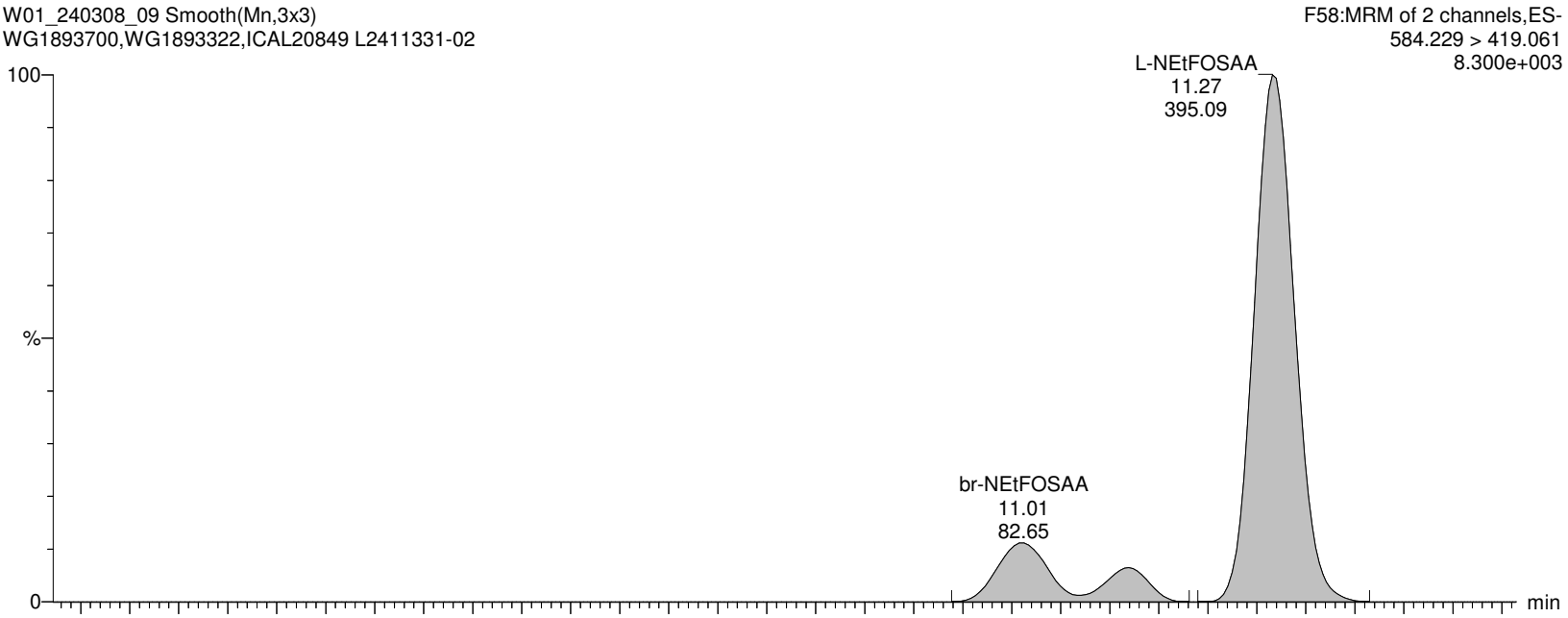

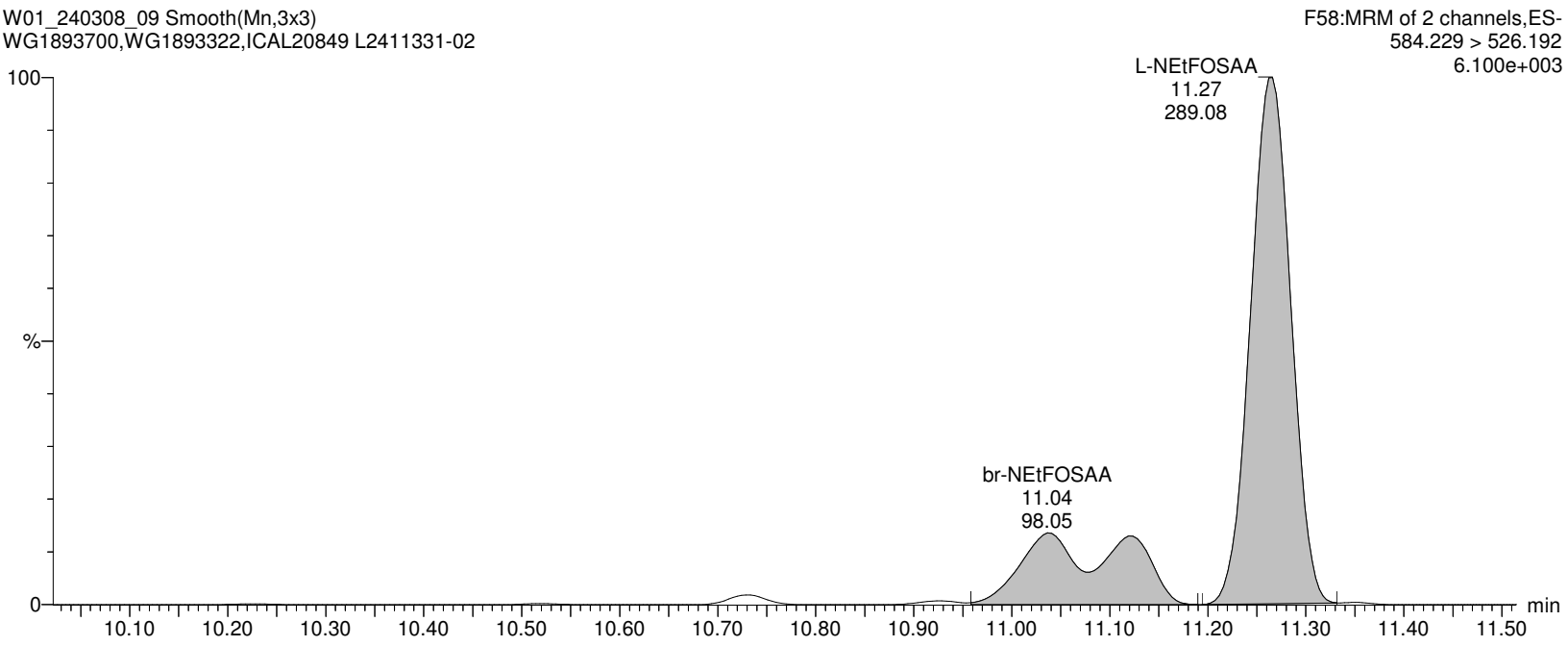

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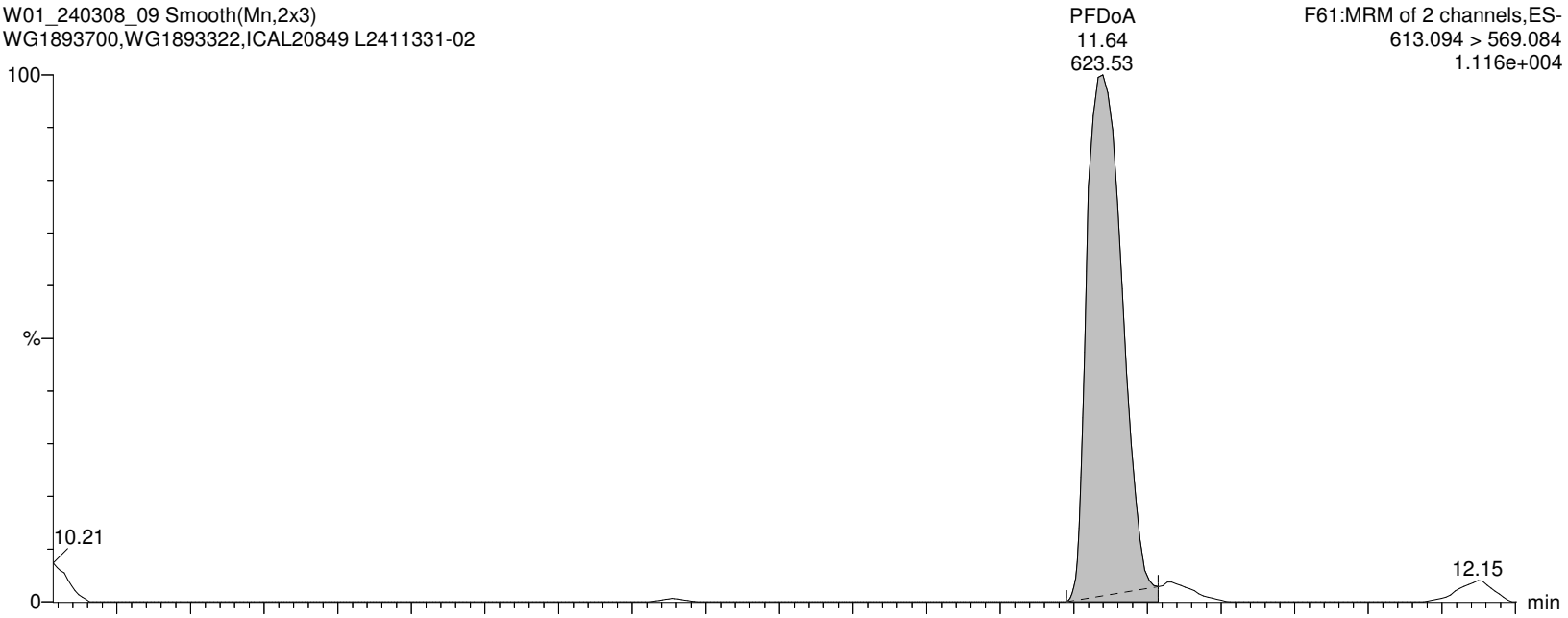

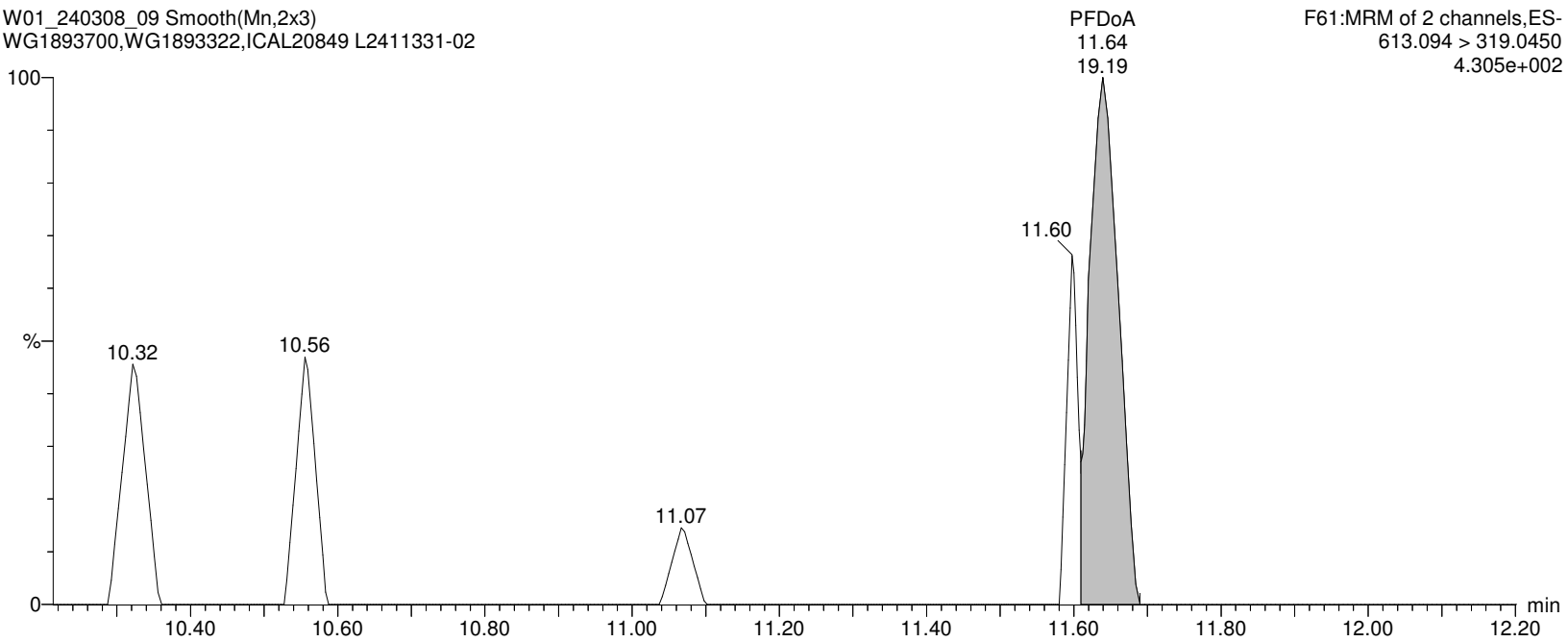

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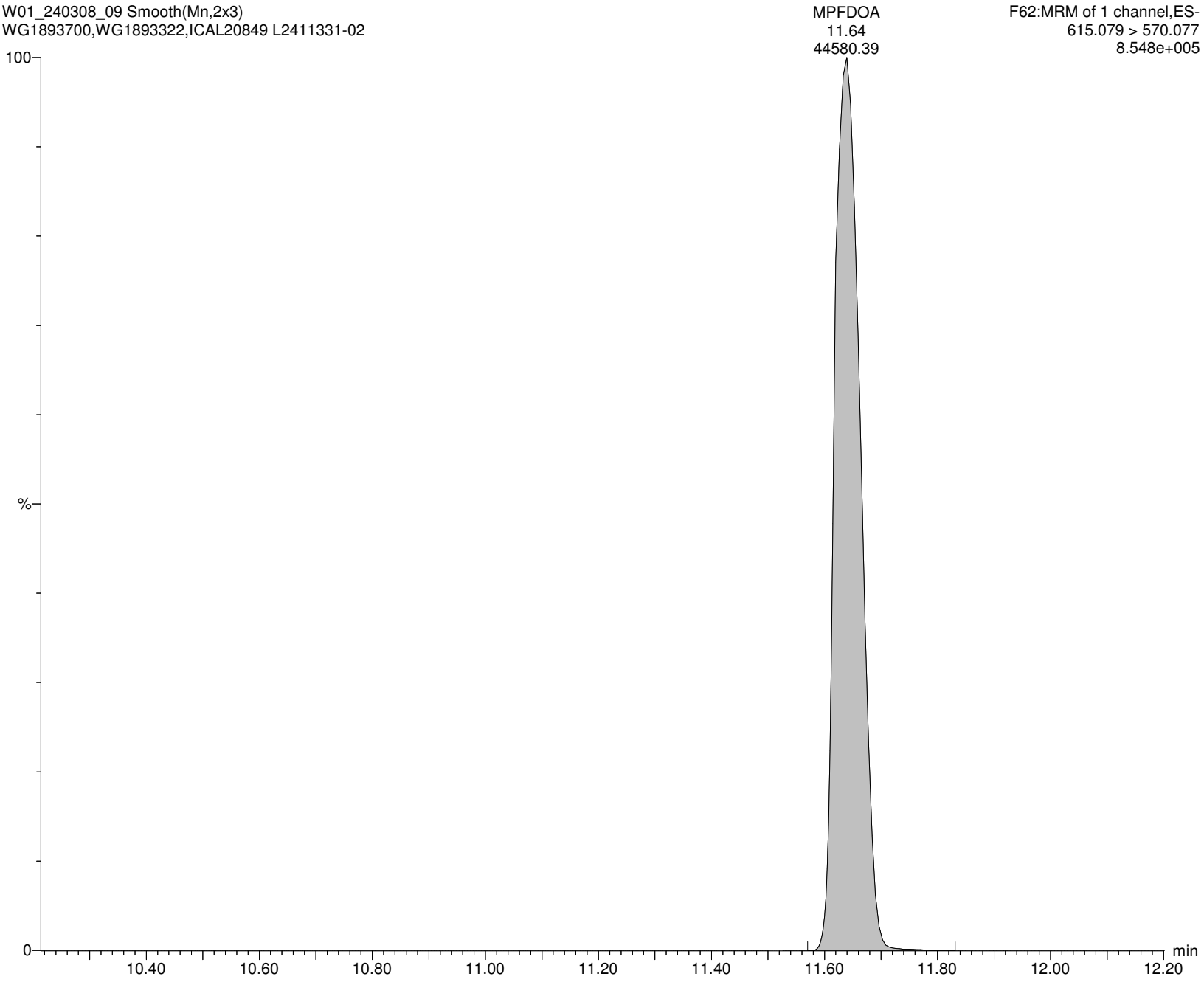

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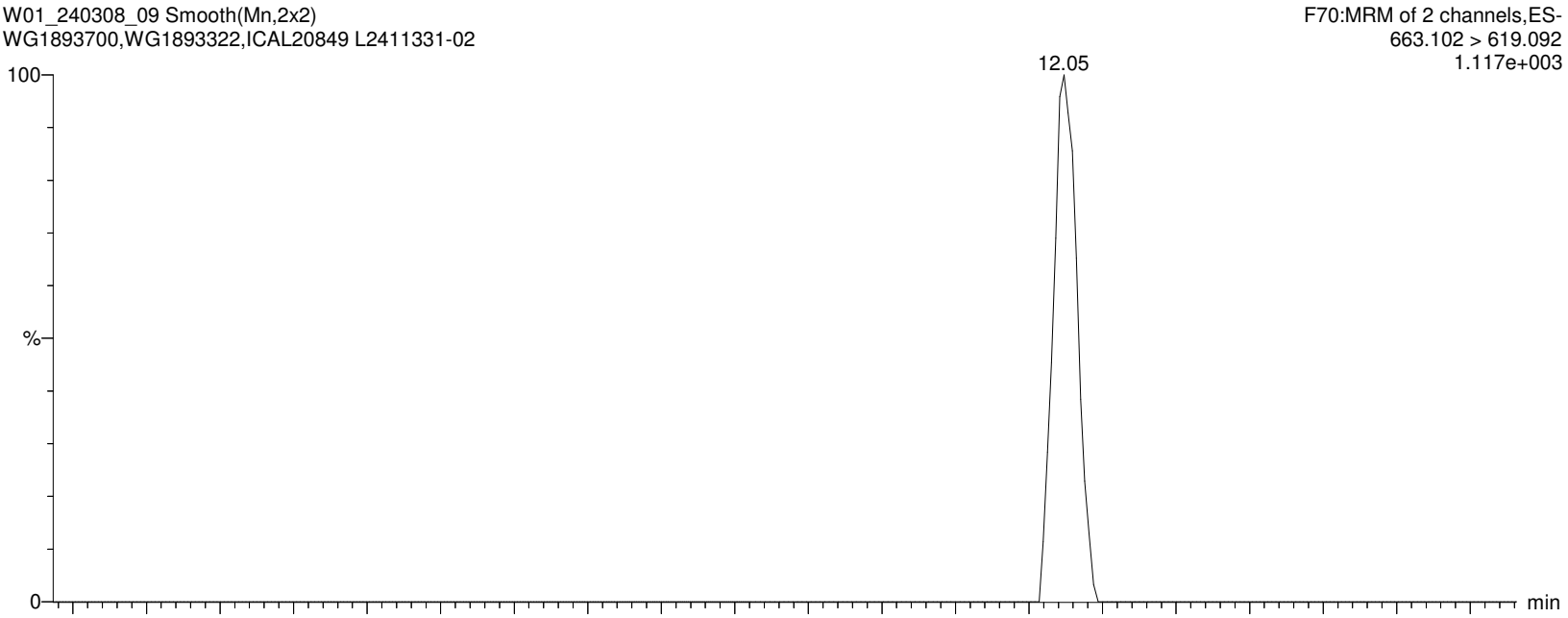

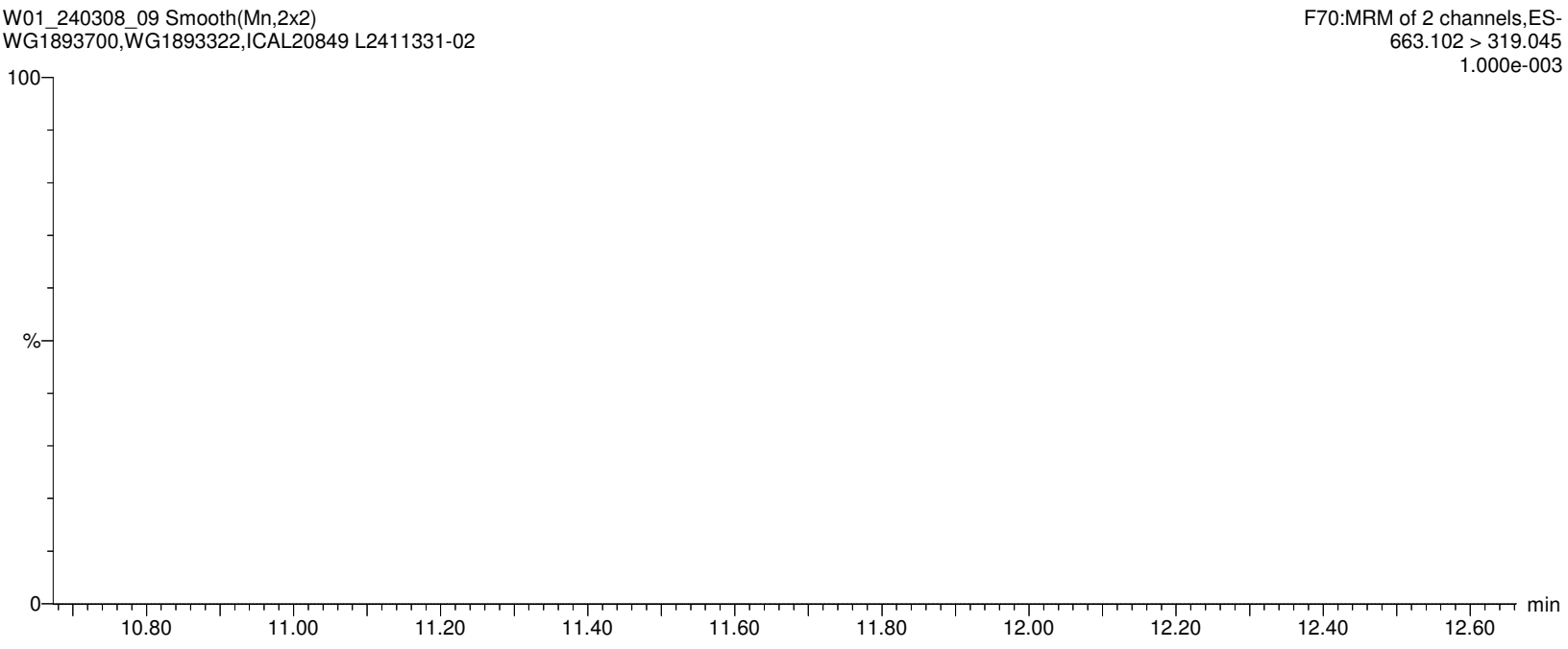

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:38 Eastern Standard Time

Name: W01_240308_09
ID: L2411331-02
Date: 08-Mar-2024
Time: 07:16:12
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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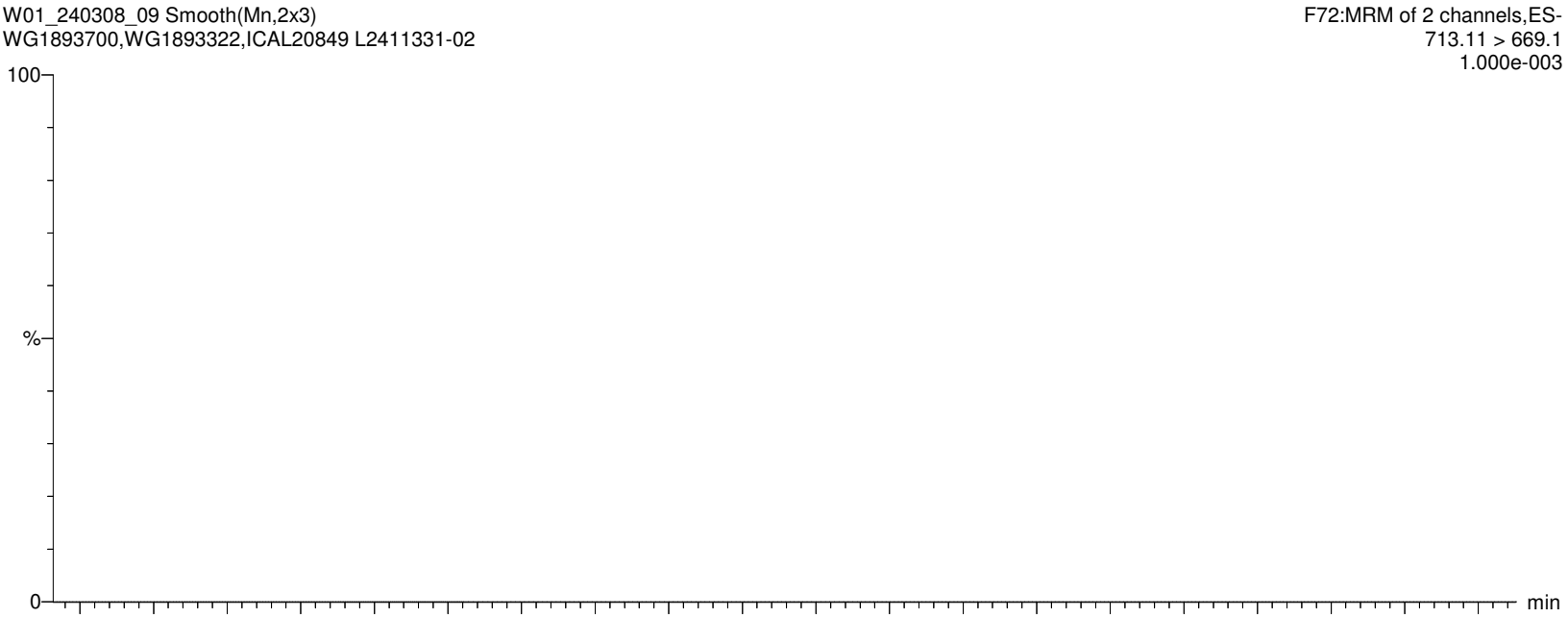

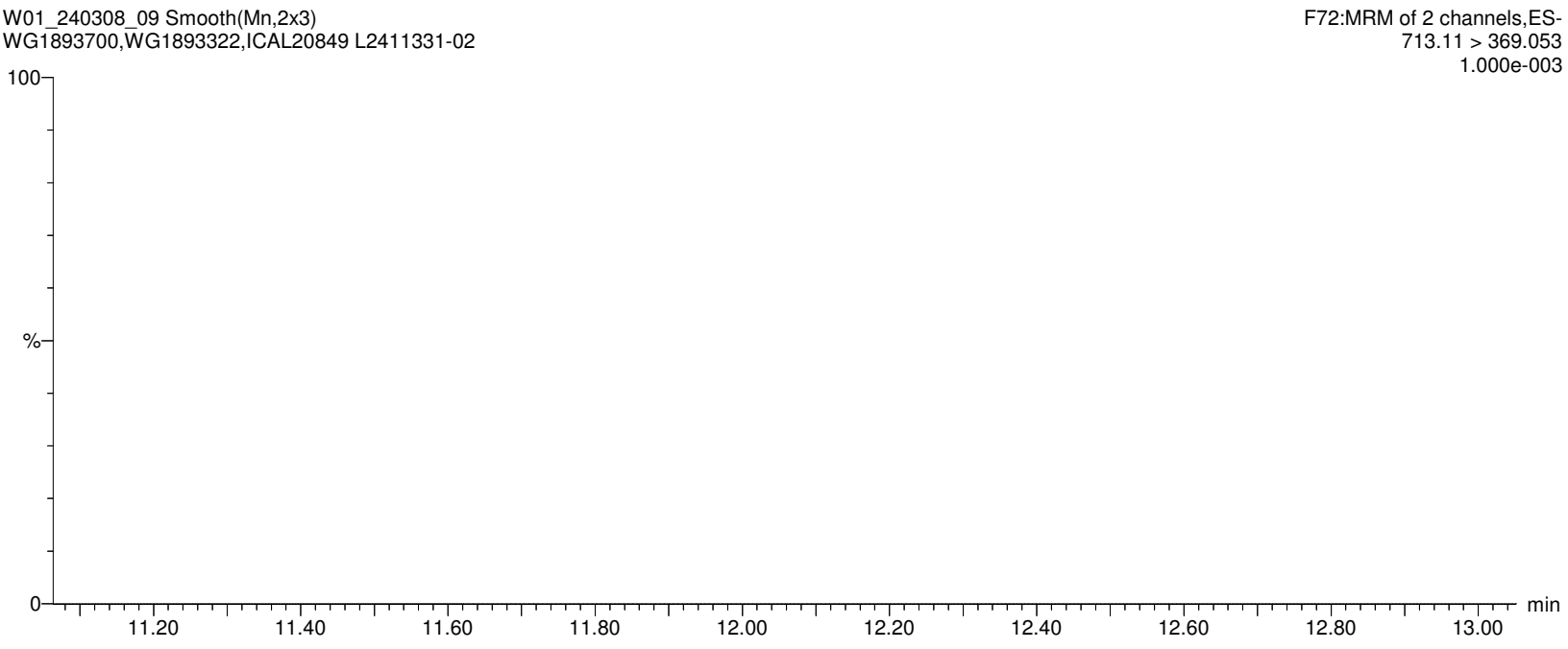

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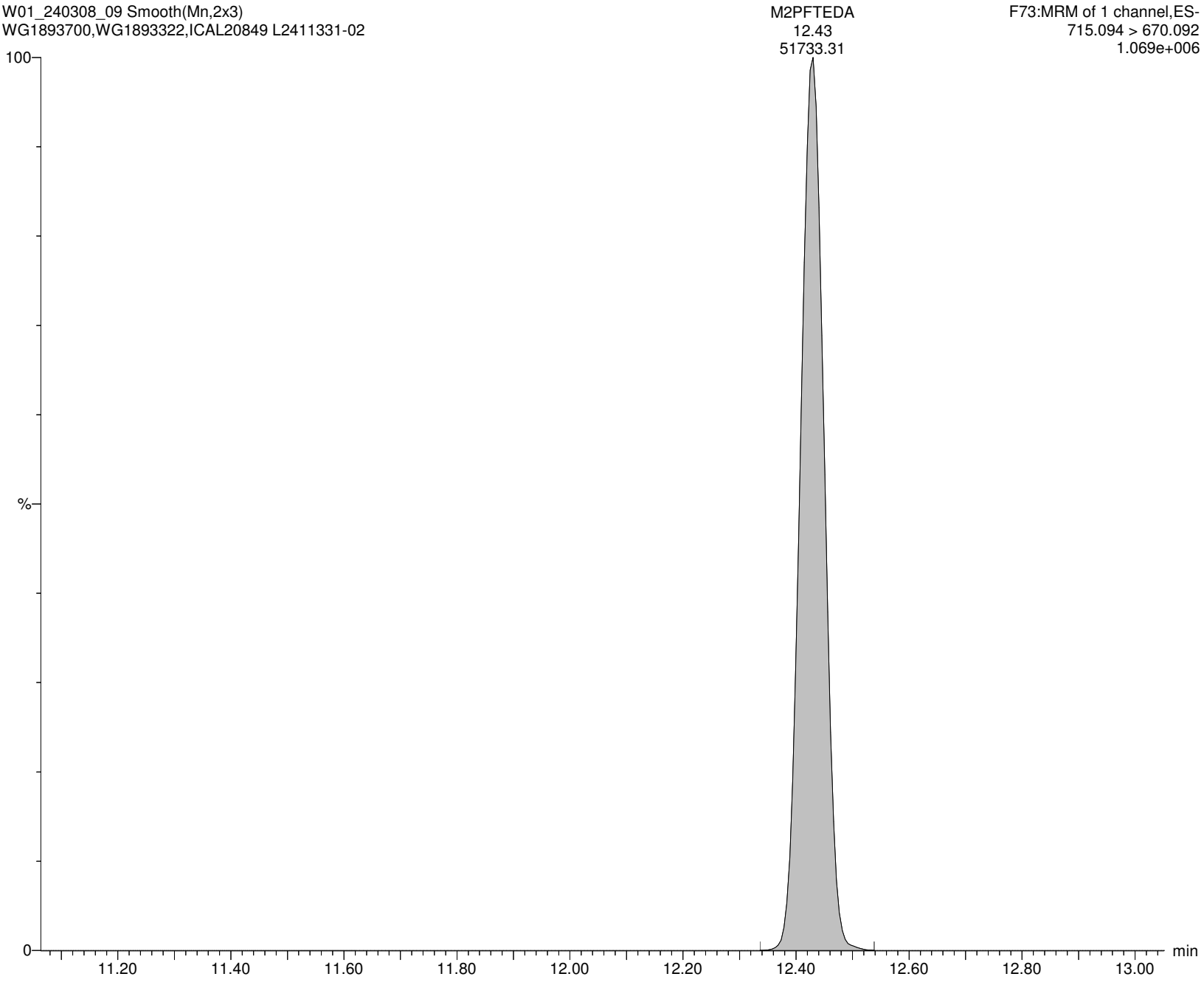

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ID: L2411331-03
Name: W01_240308_12
Date: 08-Mar-2024
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Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	8601		2.691		na	
2	M3PFBA	INT STD	2.23	216.009 > 171.999	36723		4.788		na	47.9
3	MPFBA	INT STD	2.24	217.001 > 171.999	35284		8.444		na	84.4
4	PFPeA	2706-90-3	5.14	263.039 > 219.03	6128		3.222		na	
5	M5PFPEA	INT STD	5.13	268.001 > 222.999	18817		4.313		na	43.1
6	PFBS	375-73-5	5.78	299.092 > 80.062	4177		4.431	1.80	NO	
7	M3PFBS	INT STD	5.78	302.069 > 80.062	8508		6.967		na	74.8
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	4737		13.163		na	140.3
10	PFHxA	307-24-4	7.01	313.047 > 269.037	9939		4.342	12.69	NO	
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	24107		6.287		na	62.9
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	354	M7	0.313	1.88	NO	
13	PFHpA	375-85-9	8.26	363.055 > 319.045	10814		3.952	3.88	NO	
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	27234		6.675		na	66.8
15	br-PFHxS	355-46-4	8.18	399.107 > 80.062	878	M5,M7	0.807	2.03	NO	
16	L-PFHxS	355-46-4	8.41	399.107 > 80.062	3561		3.133	1.58	NO	
17	PFHxS	355-46-4		399.107 > 80.062	4439		3.941		na	
18	M3PFHxS	INT STD	8.41	402.084 > 80.062	9901		8.429		na	88.9
19	br-PFOA	335-67-1	8.96	413.063 > 369.053	3486		0.900	1.60	NO	
20	L-PFOA	335-67-1	9.18	413.063 > 369.053	43088		11.126	9.25	NO	
21	PFOA	335-67-1		413.063 > 369.053	46574		12.027		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	37667		8.497		na	85.0
23	M2PFOA	INT STD	9.18	415.048 > 370.045	43800		2.950		na	29.5
24	6:2FTS	27619-97-2	9.14	427.161 > 407.155	80	M7	0.116	2.24	NO	
25	M2-6:2FTS	INT STD	9.14	429.146 > 409.14	7603		18.390		na	193.4
26	PFHpS	375-92-8	9.27	449.115 > 80.062	352	M7	0.317	1.84	NO	
27	PFNA	375-95-1	9.95	463.071 > 419.061	8244		1.901	4.85	NO	
28	M9PFNA	INT STD	9.95	472.002 > 427.	43044		9.346		na	93.5
29	br-PFOS	1763-23-1	9.74	499.123 > 80.062	8122	M5,M7	5.176	4.58	NO	
30	L-PFOS	1763-23-1	10.00	499.123 > 80.062	10047	M4,M7	7.489	1.72	NO	
31	PFOS	1763-23-1		499.123 > 80.062	18169		12.666		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	12858		3.472		na	36.2
33	M8PFOS	INT STD	10.00	507.062 > 80.062	11988		8.740		na	91.1
34	PFDA	335-76-2	10.60	513.078 > 469.069	6831		1.803	4.29	NO	
35	M2PFDA	INT STD	10.60	515.063 > 470.061	52532		3.915		na	39.2
36	M6PFDA	INT STD	10.60	519.033 > 474.03	38926		7.432		na	74.3
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	99		0.127	3.39	NO	
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	8948		20.467		na	213.2
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

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Printed: Friday, March 08, 2024 15:07:43 Eastern Standard Time

ID: L2411331-03
Name: W01_240308_12
Date: 08-Mar-2024
Time: 08:05:51
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	7970		9.908		na	99.1
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	120	M5,M7	0.512	1.63	YES	
42	L-NMeFOSAA	2355-31-9	10.97	570.202 > 419.061	590		1.078	2.78	NO	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	710		1.589		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	1208		0.224	44.29	YES	
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	51854		9.087		na	90.9
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6	10.92	498.146 > 78.07	1797	M4	1.243		YES	
48	M8FOSA	INT STD	10.92	506.077 > 78.07	13060		3.391		na	33.9
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	8377		11.049		na	110.5
50	br-NEtFOSAA	2991-50-6	11.11	584.229 > 419.061	390	M5,M7	1.234	0.76	NO	
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	2913		4.327	1.33	NO	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	3303		5.560		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	909	M7	0.146	204.47	YES	
54	MPFDOA	INT STD	11.65	615.079 > 570.077	57308		8.948		na	89.5
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.45	715.094 > 670.092	59029		10.220		na	102.2

all concentration units in (ng/mL)

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Method: C:\MassLynx\Data\2024\240308_537ISO.PRO\MethDB\537ISO_Q_240211_RT5.mdb 05 Mar 2024 06:12:37
Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

Name: W01_240308_12
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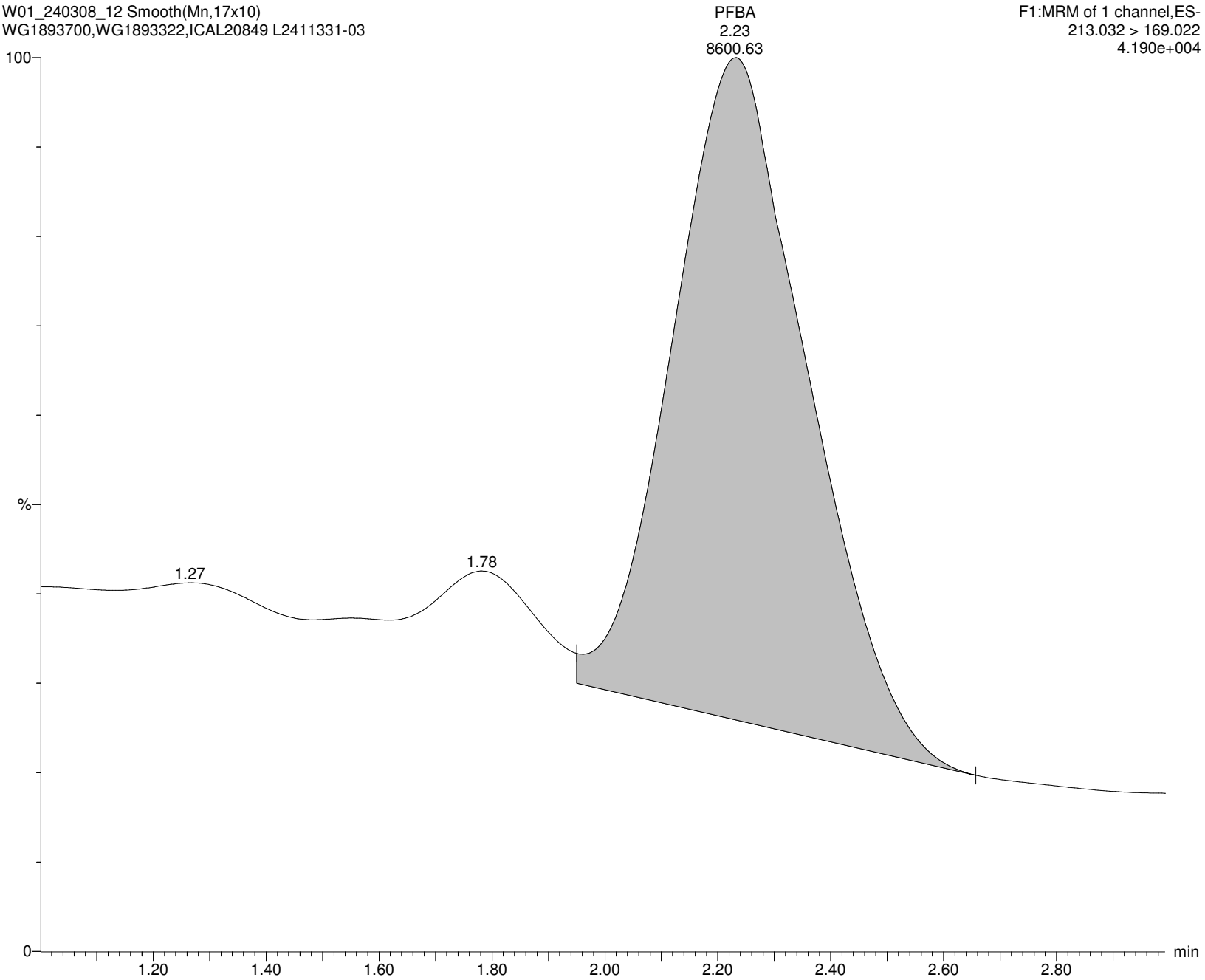
User: LCMS01:AC
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

PFBA



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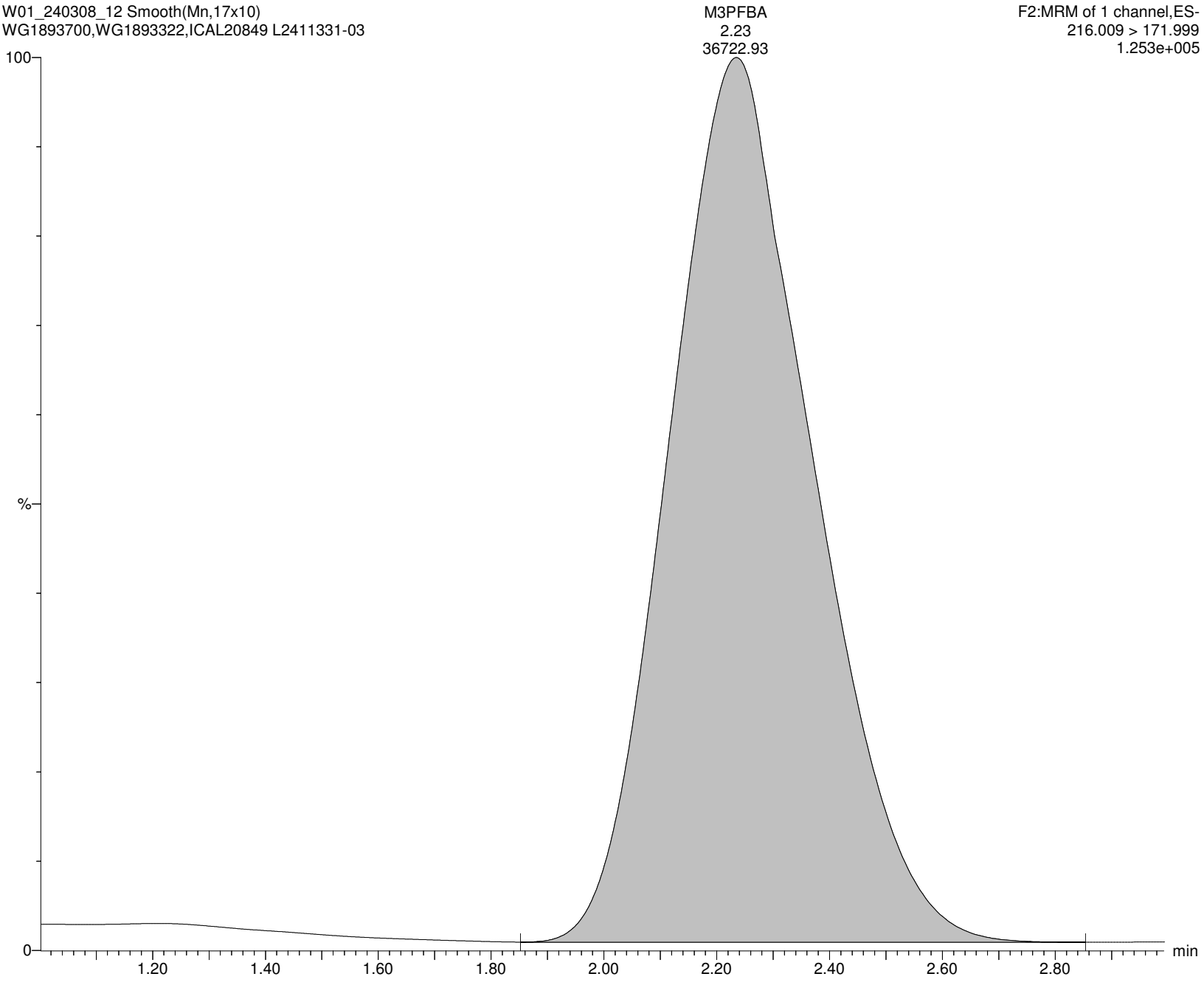

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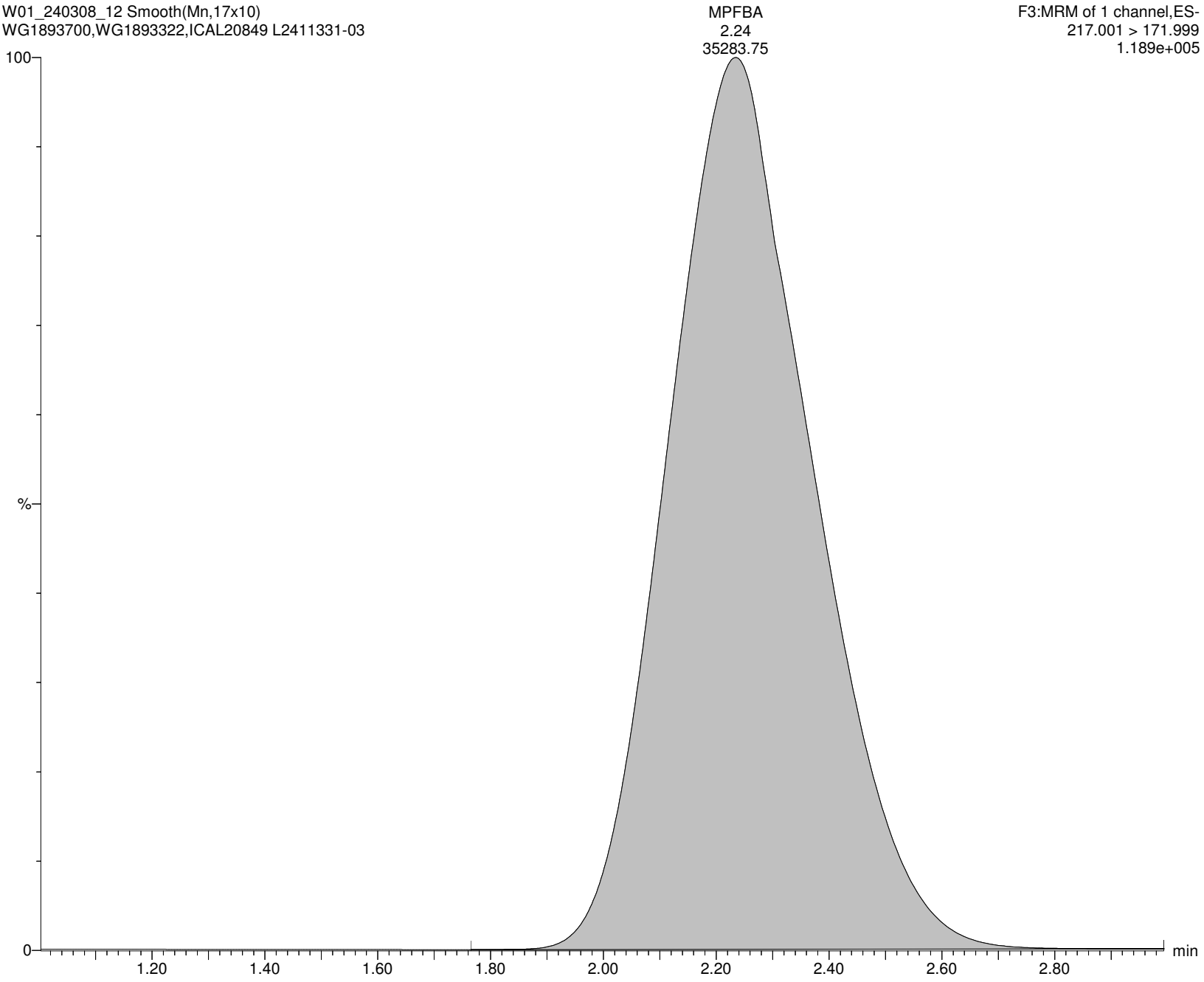

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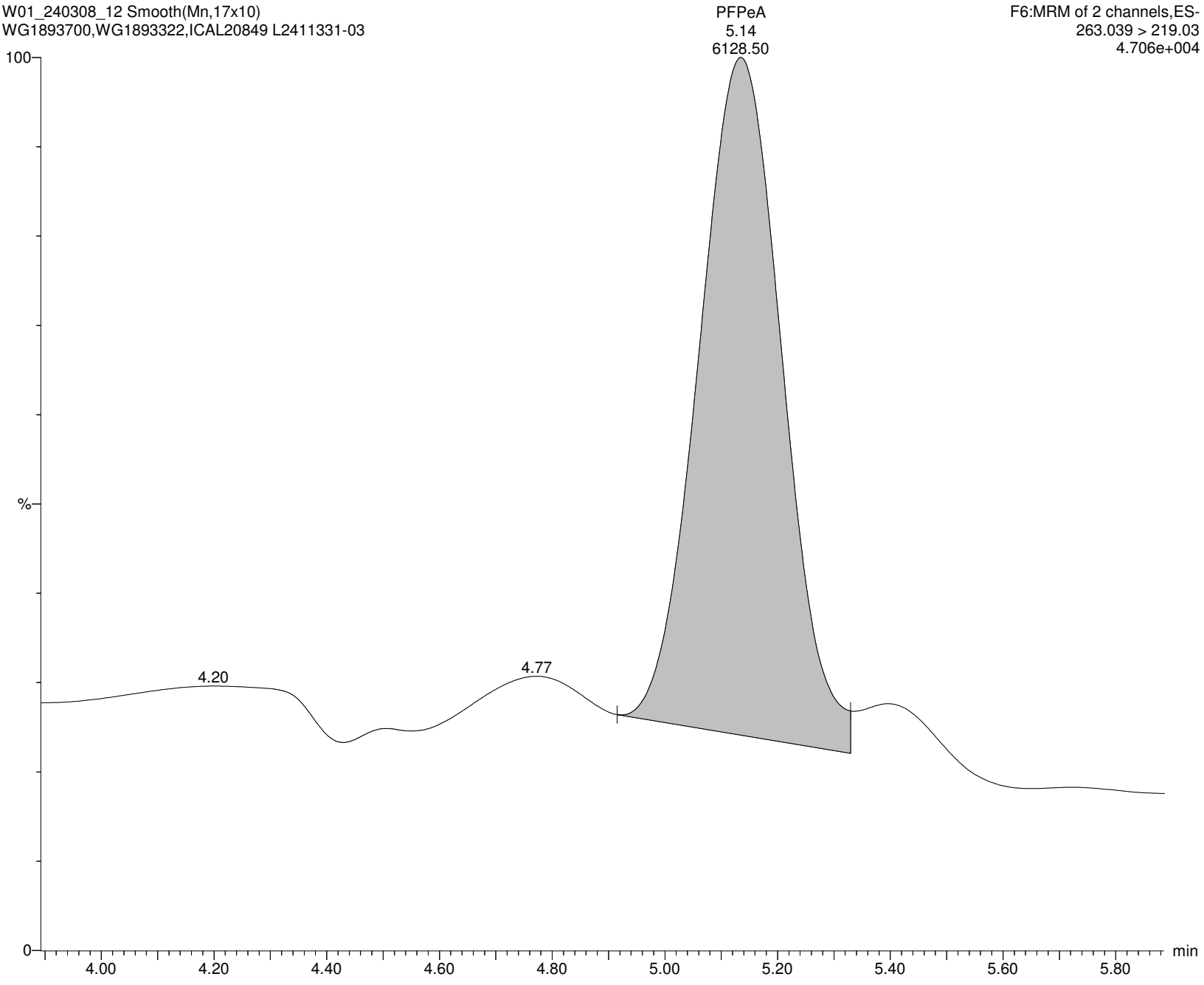

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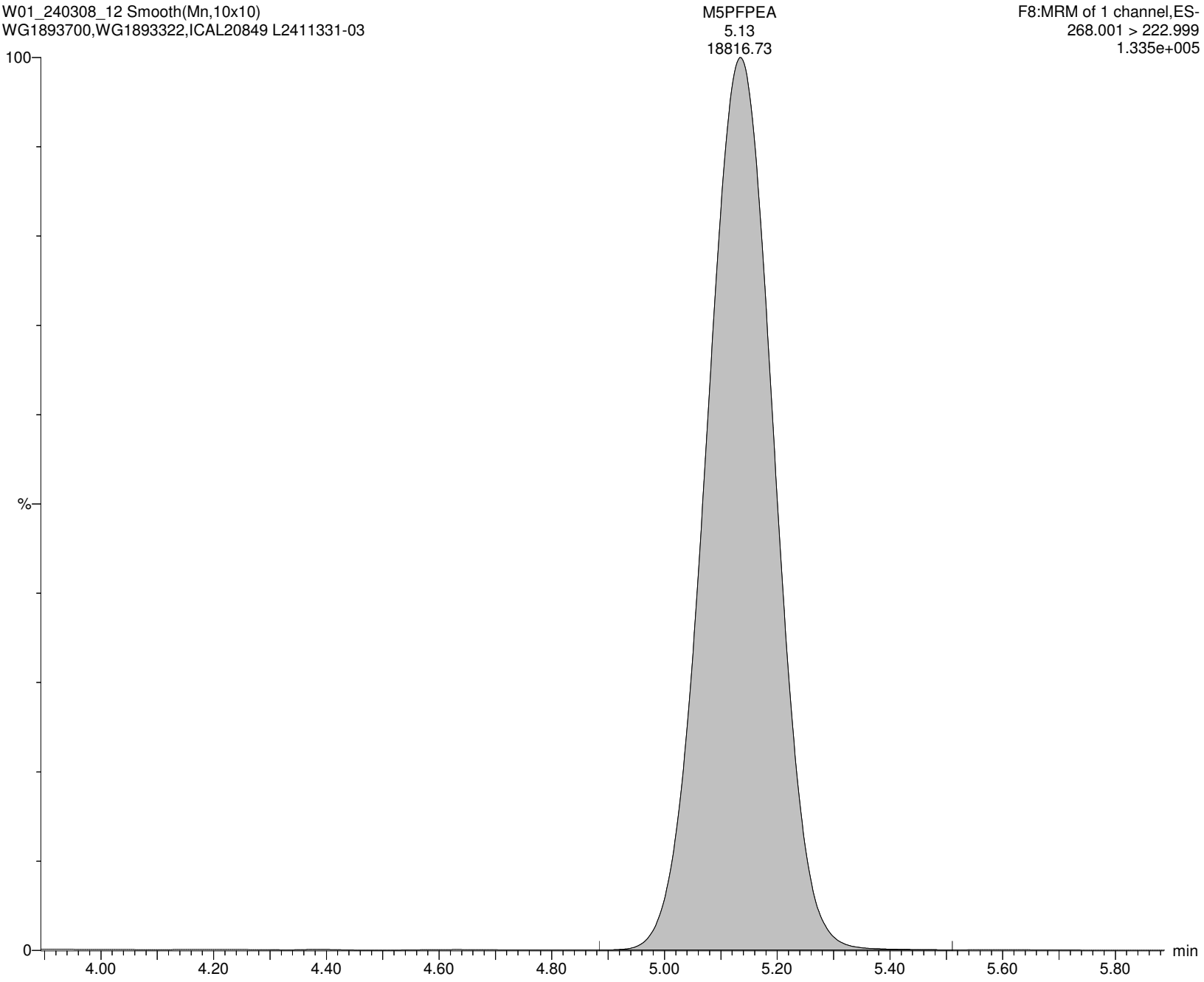

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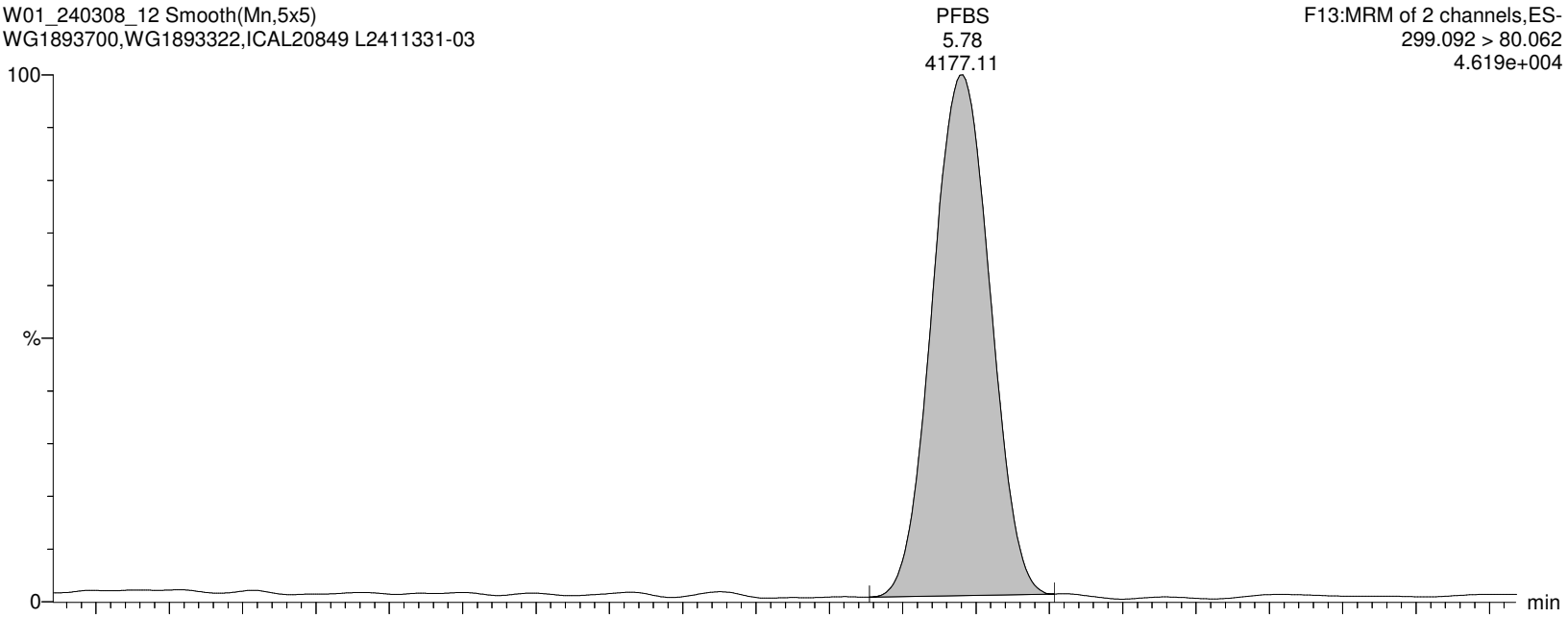

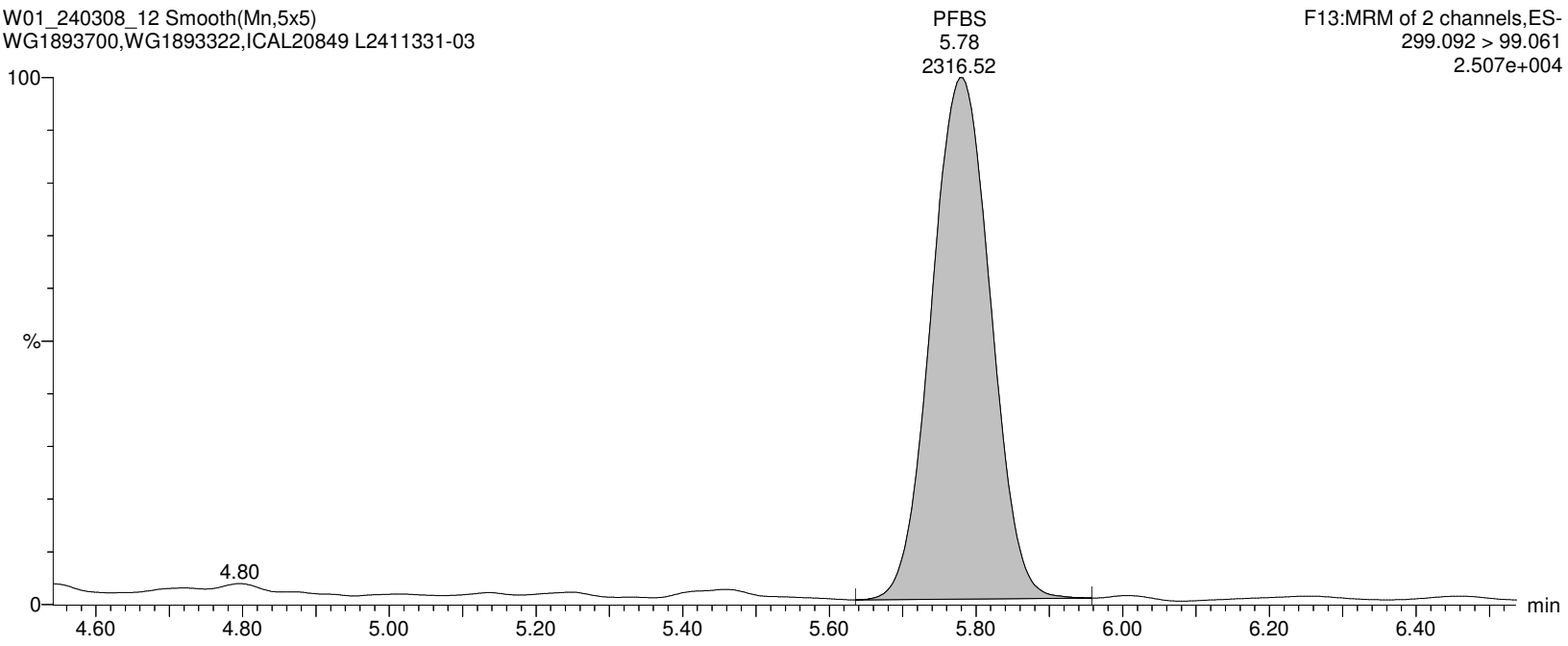

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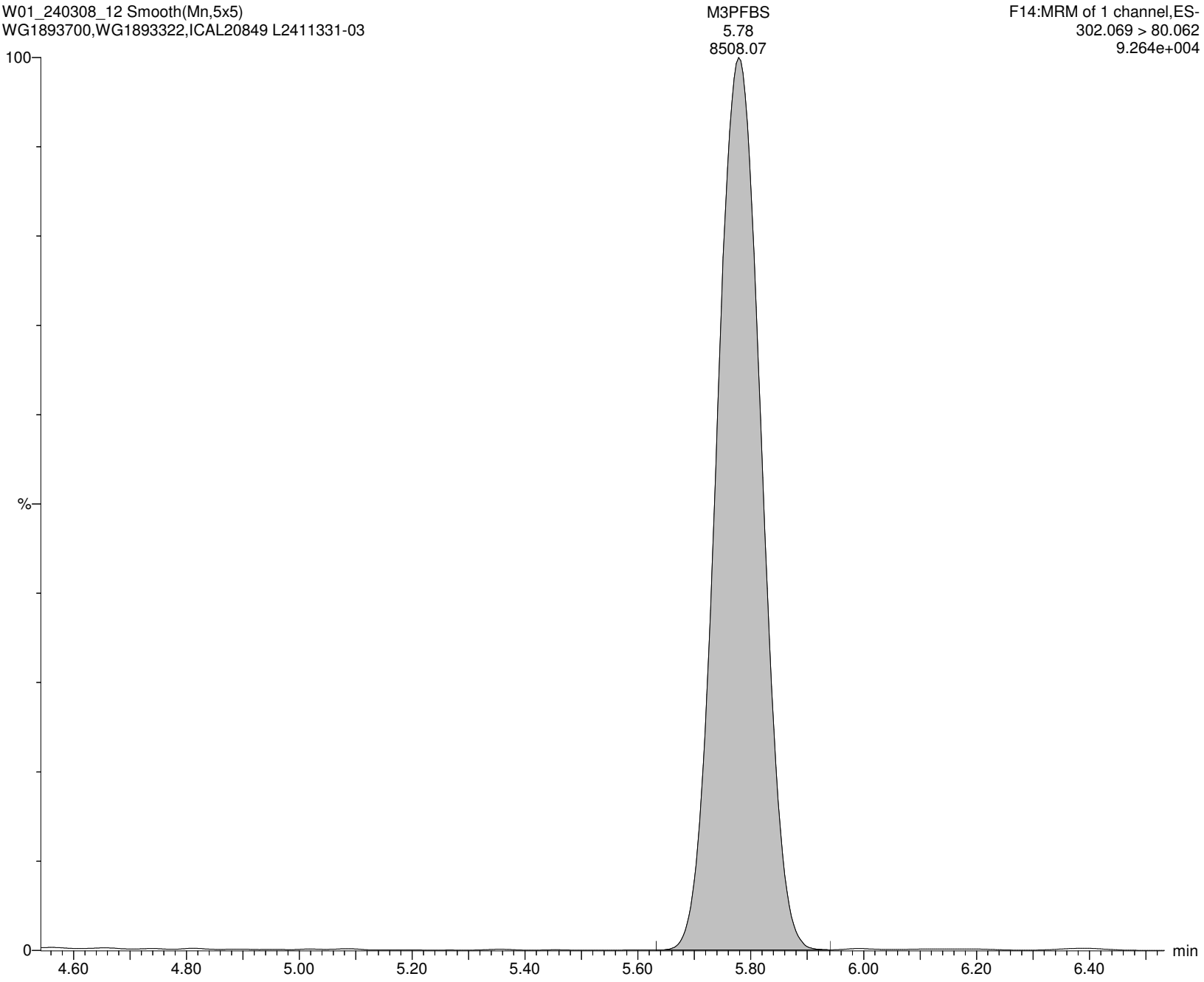
M3PFBS



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Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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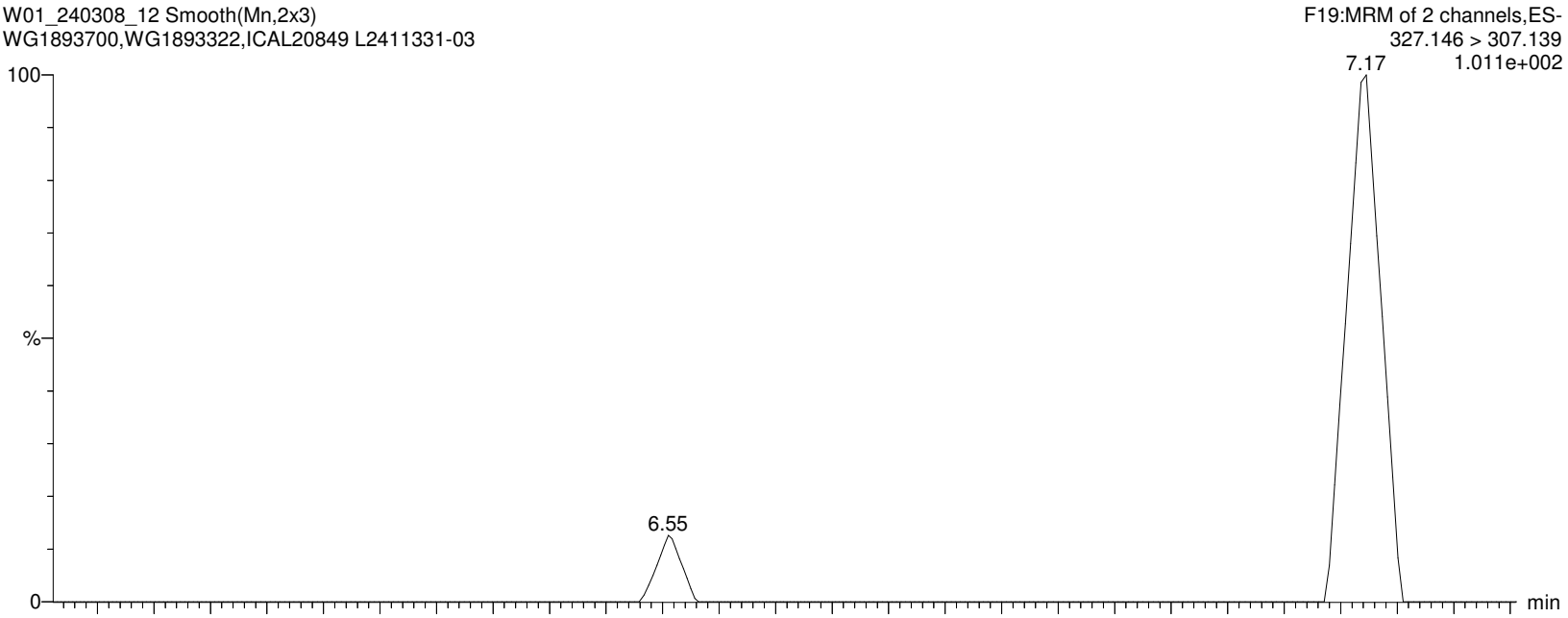

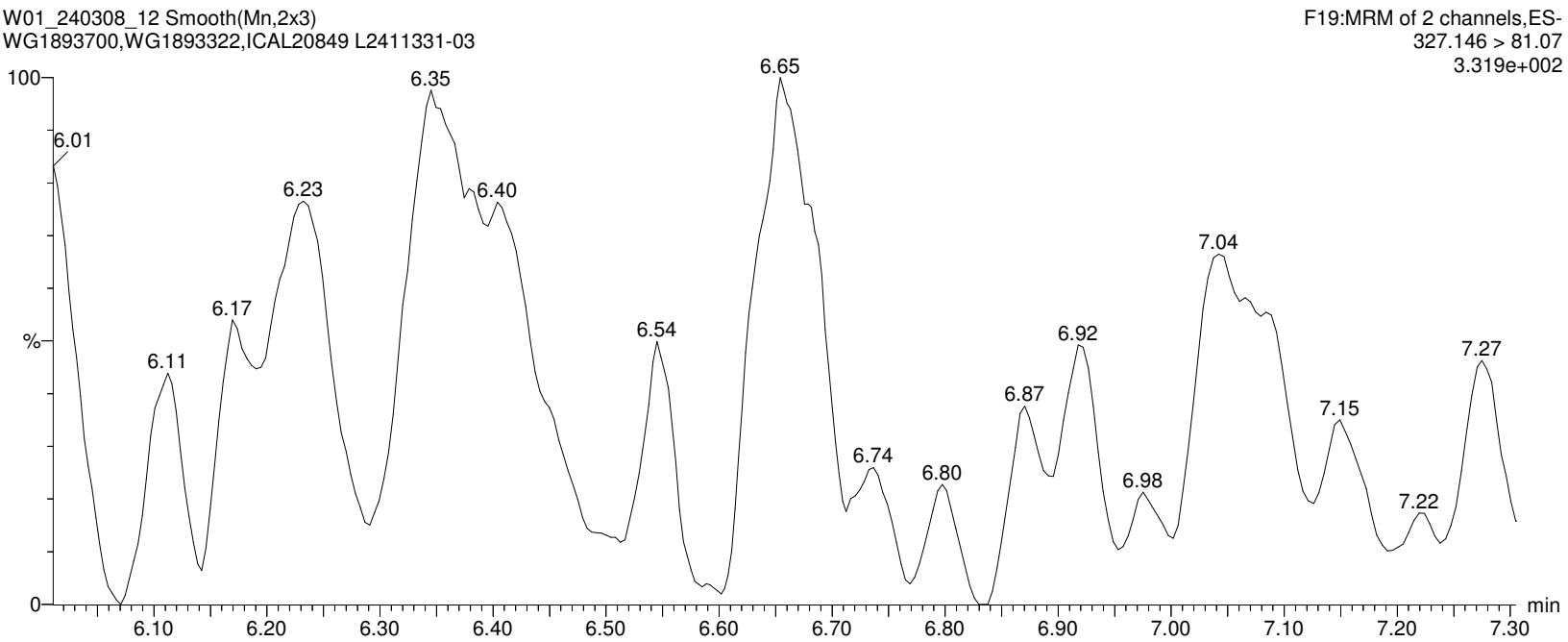

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:43 Eastern Standard Time

Name: W01_240308_12
ID: L2411331-03
Date: 08-Mar-2024
Time: 08:05:51
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
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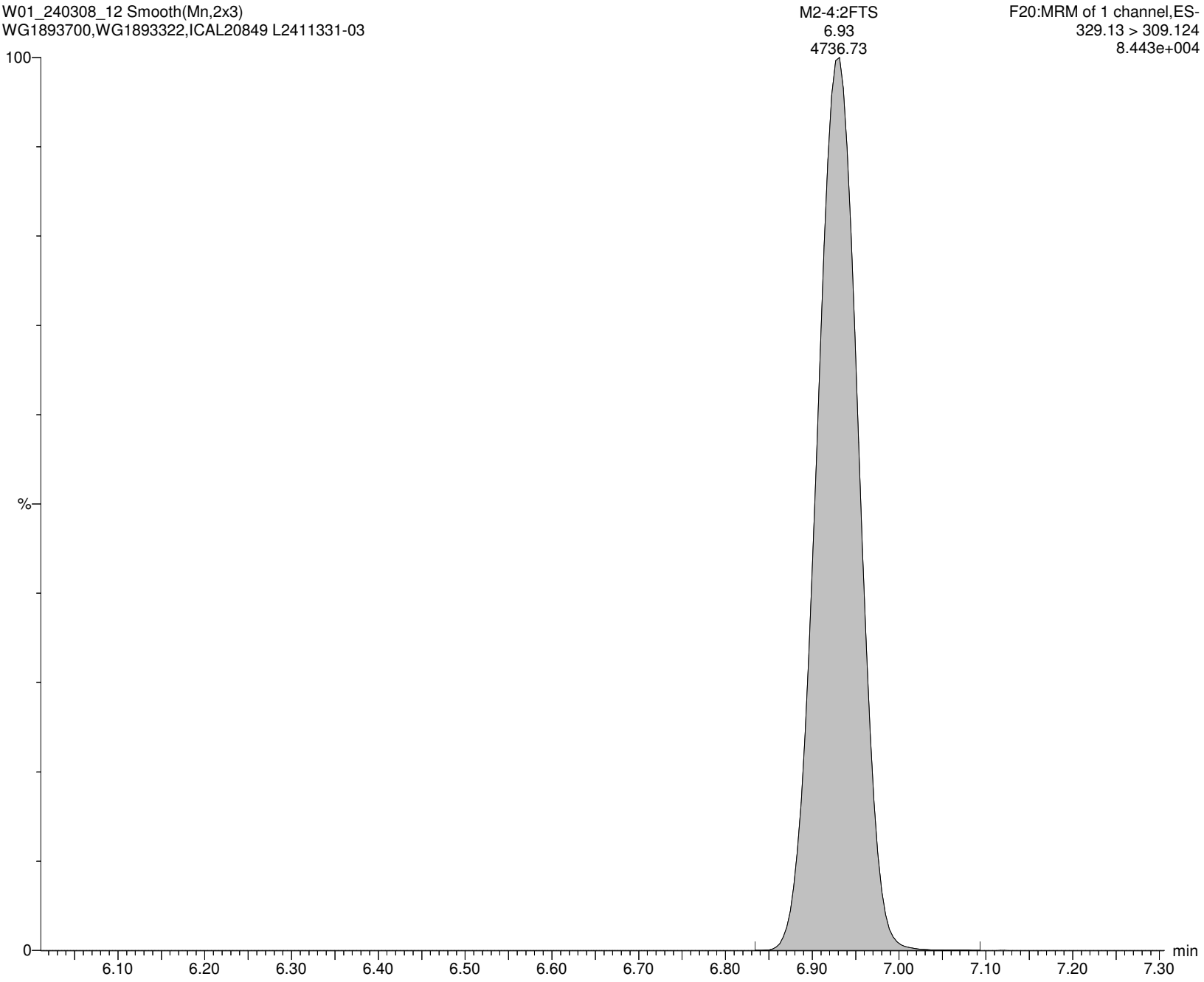
M2-4:2FTS



all concentration units in (ng/mL)

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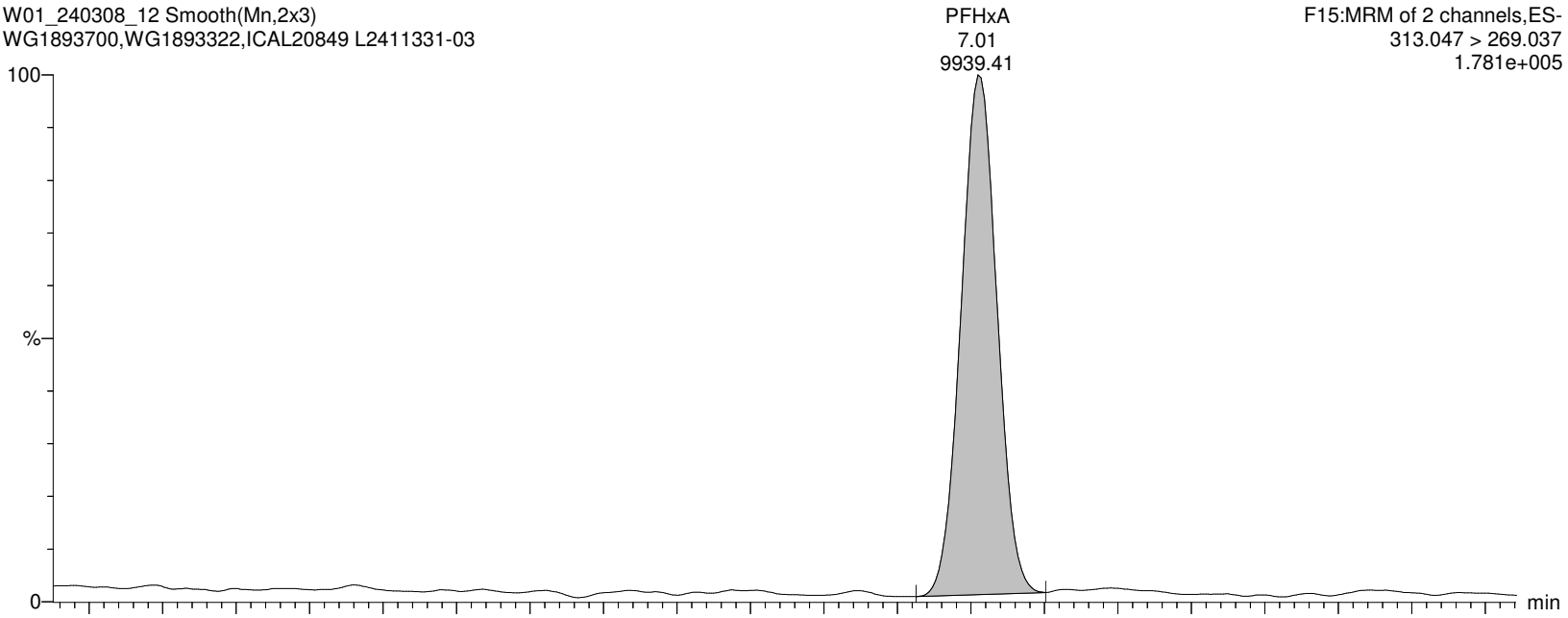

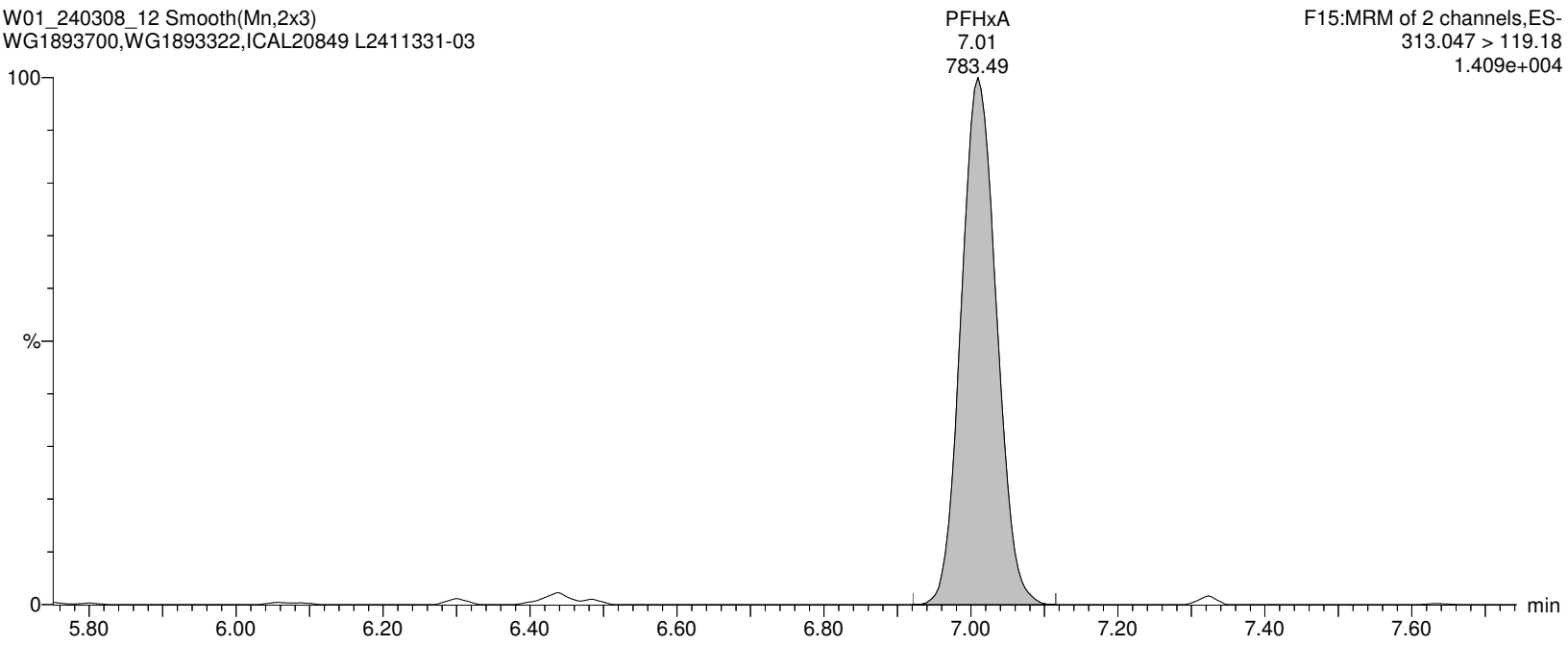

all concentration units in (ng/mL)

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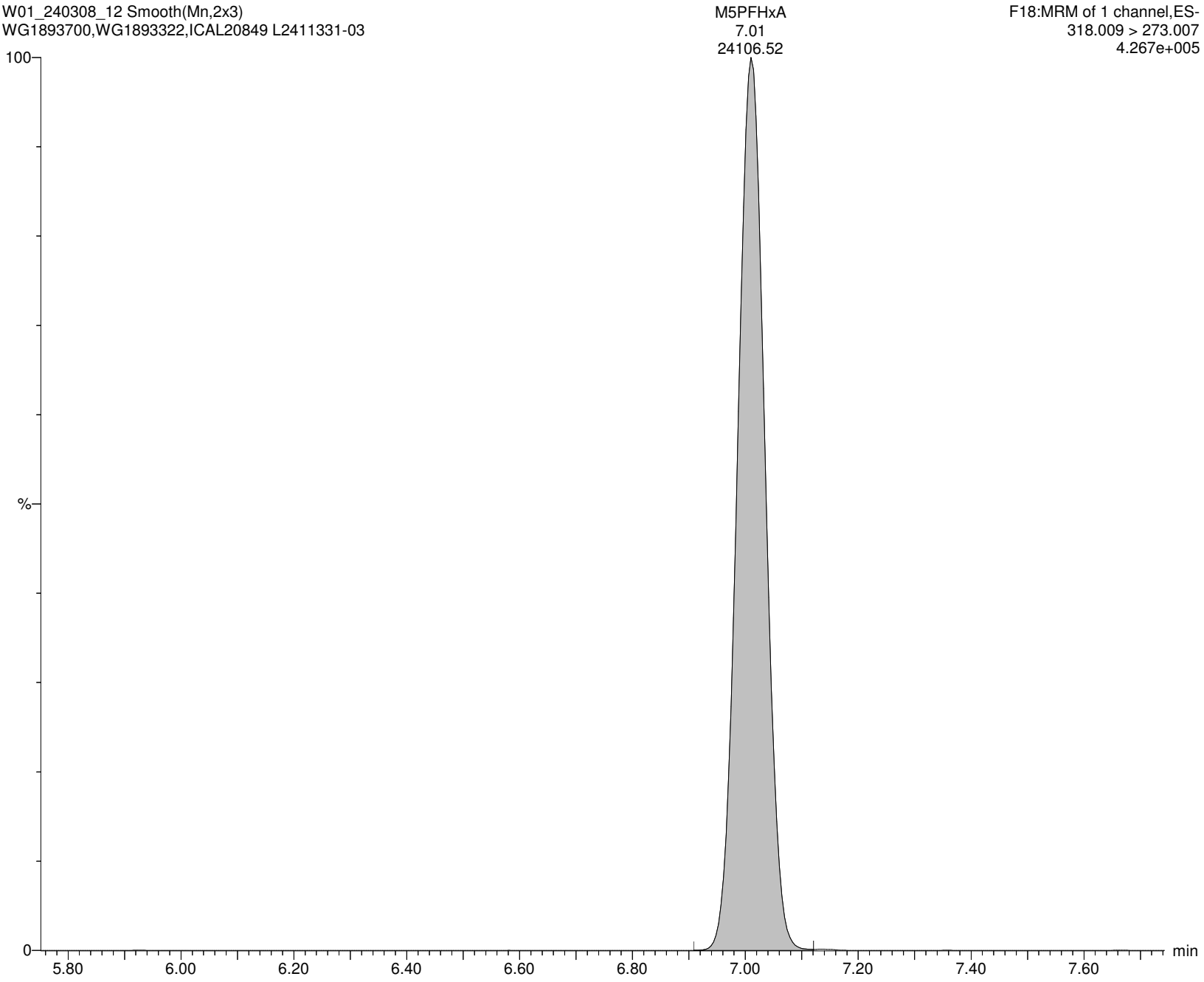

all concentration units in (ng/mL)

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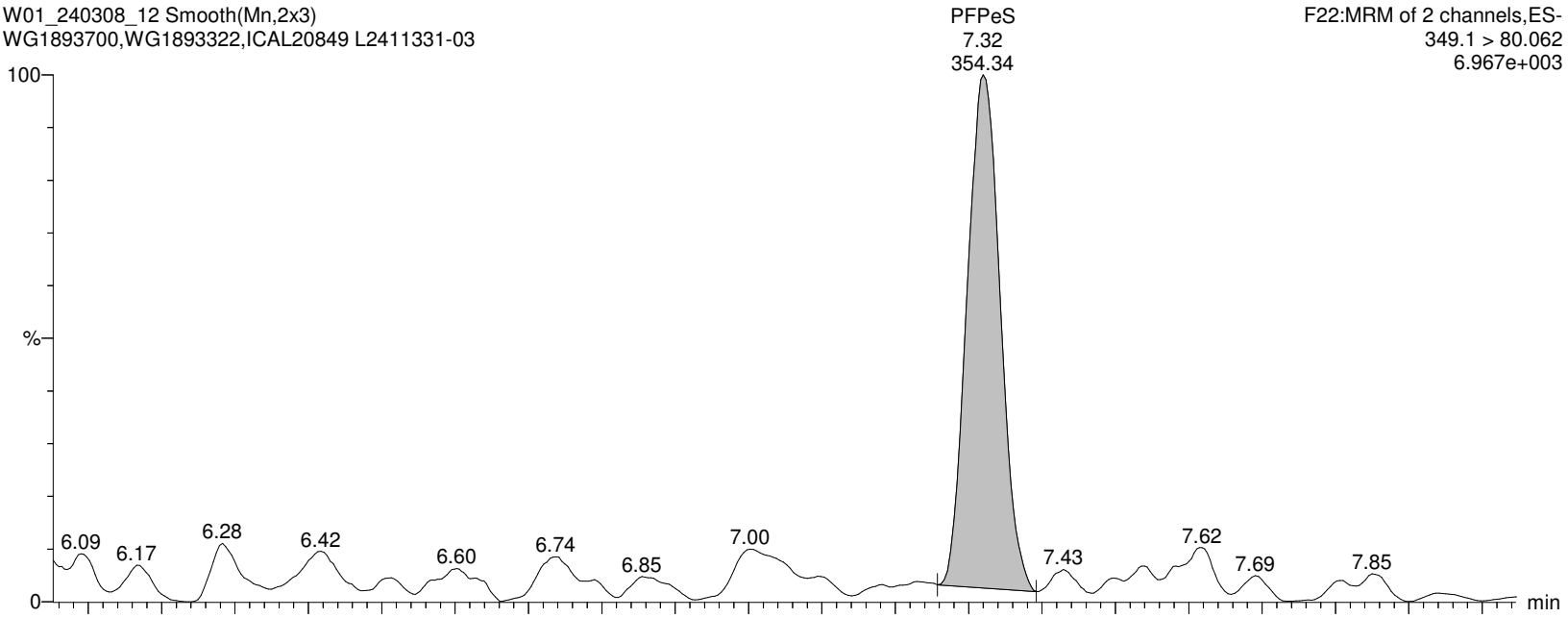

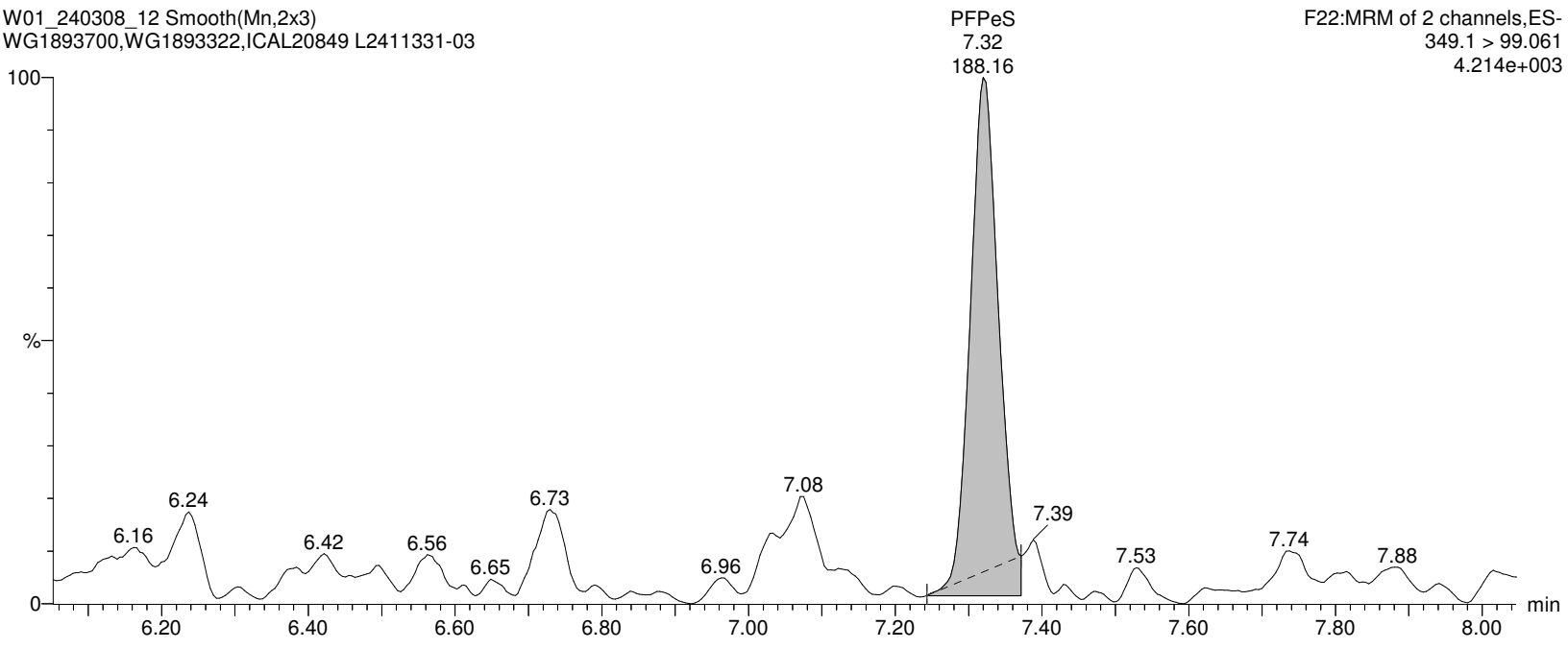

all concentration units in (ng/mL)

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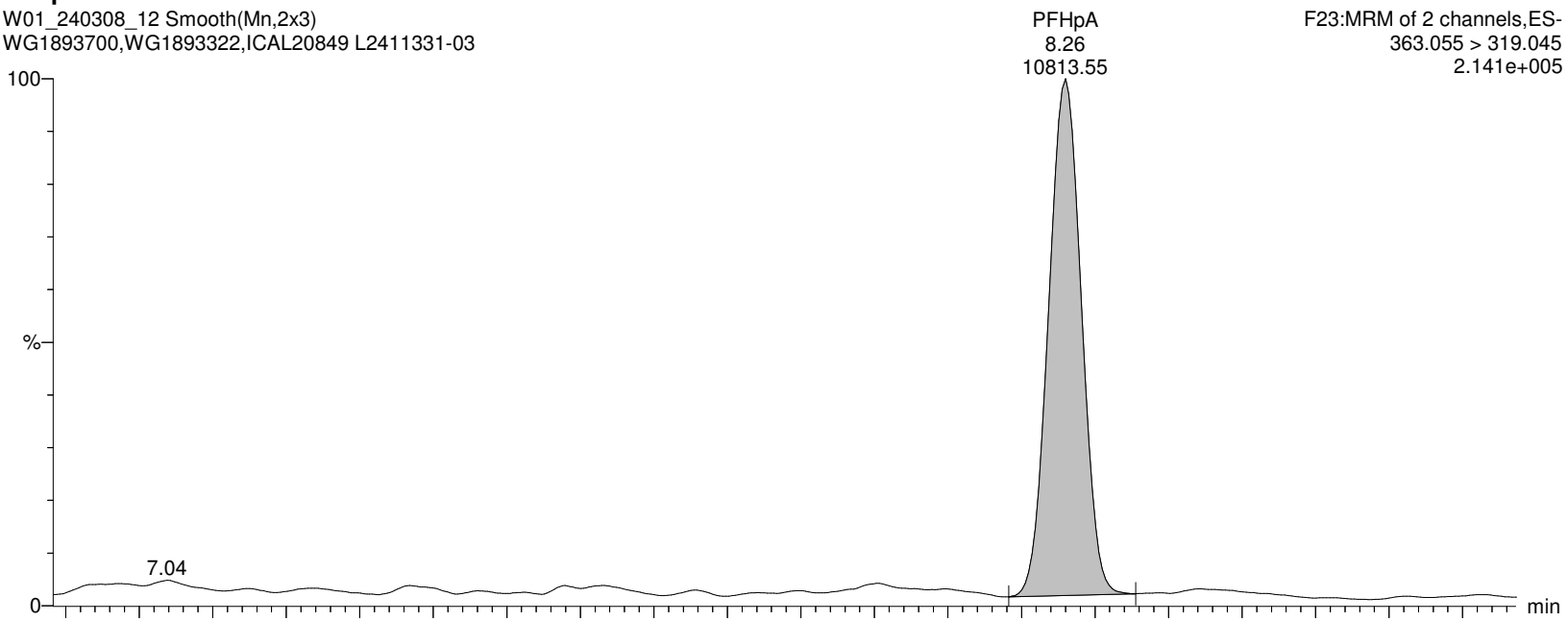

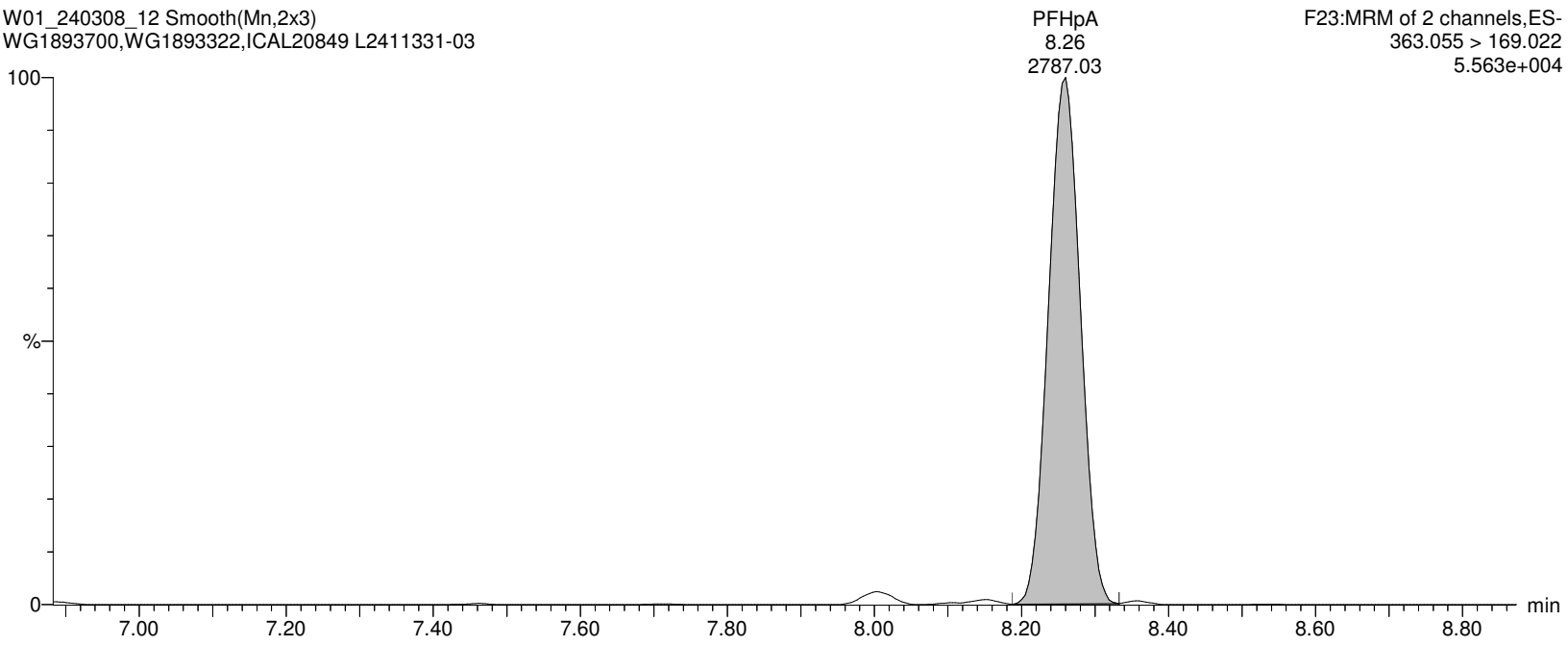

all concentration units in (ng/mL)

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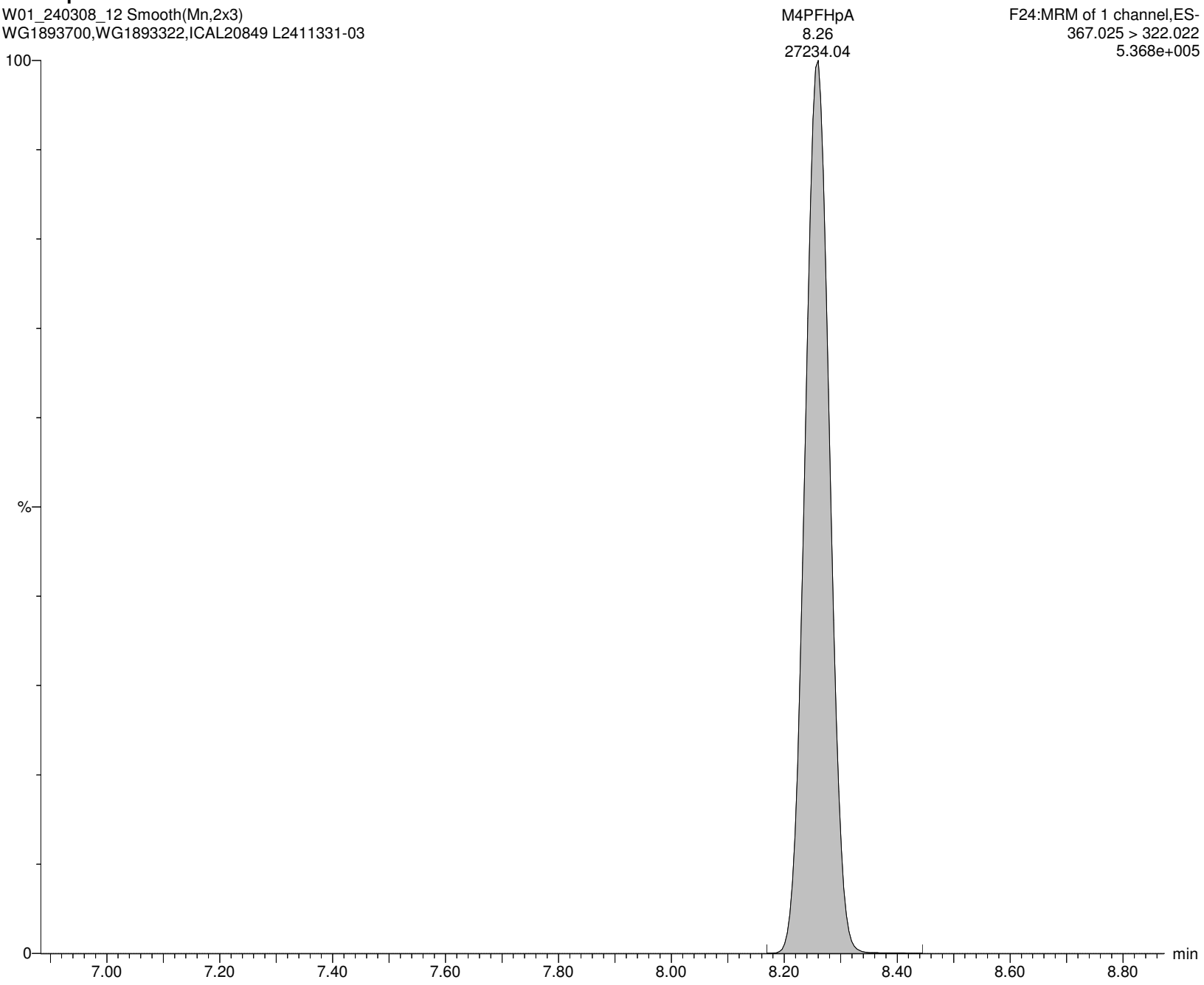

all concentration units in (ng/mL)

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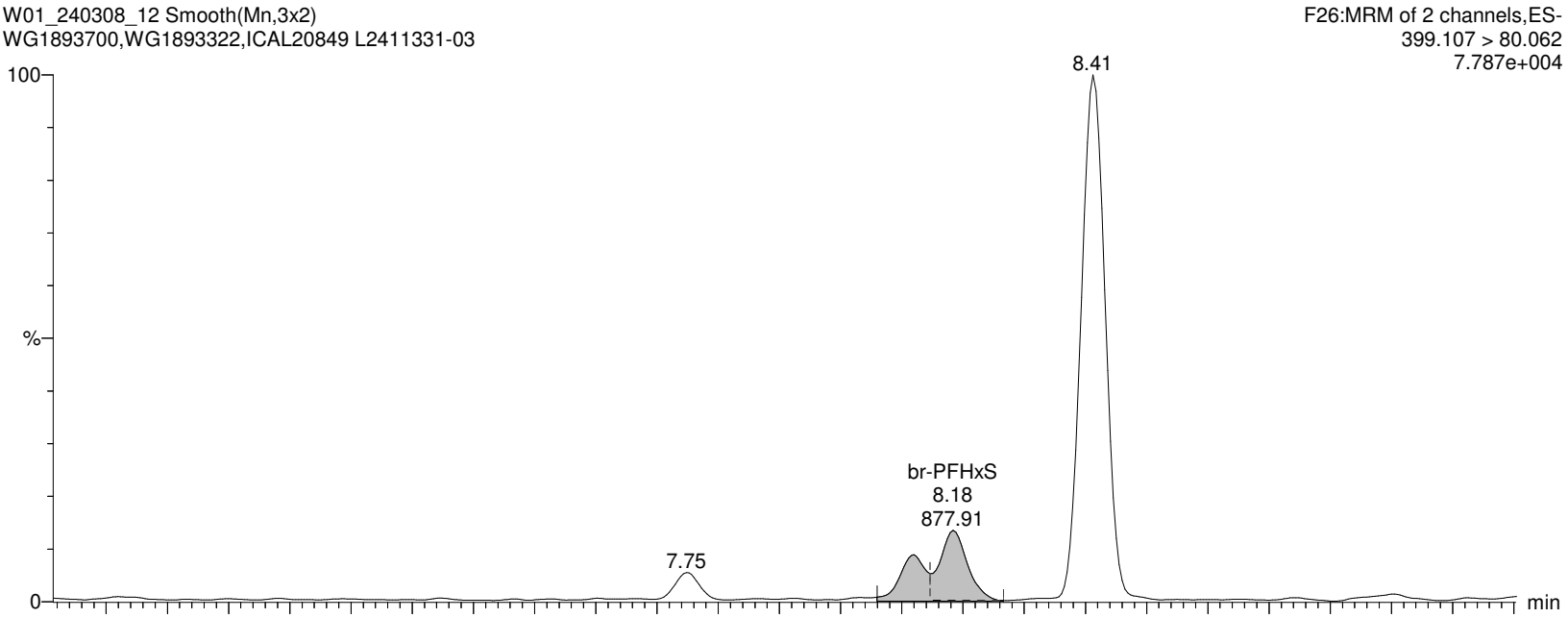

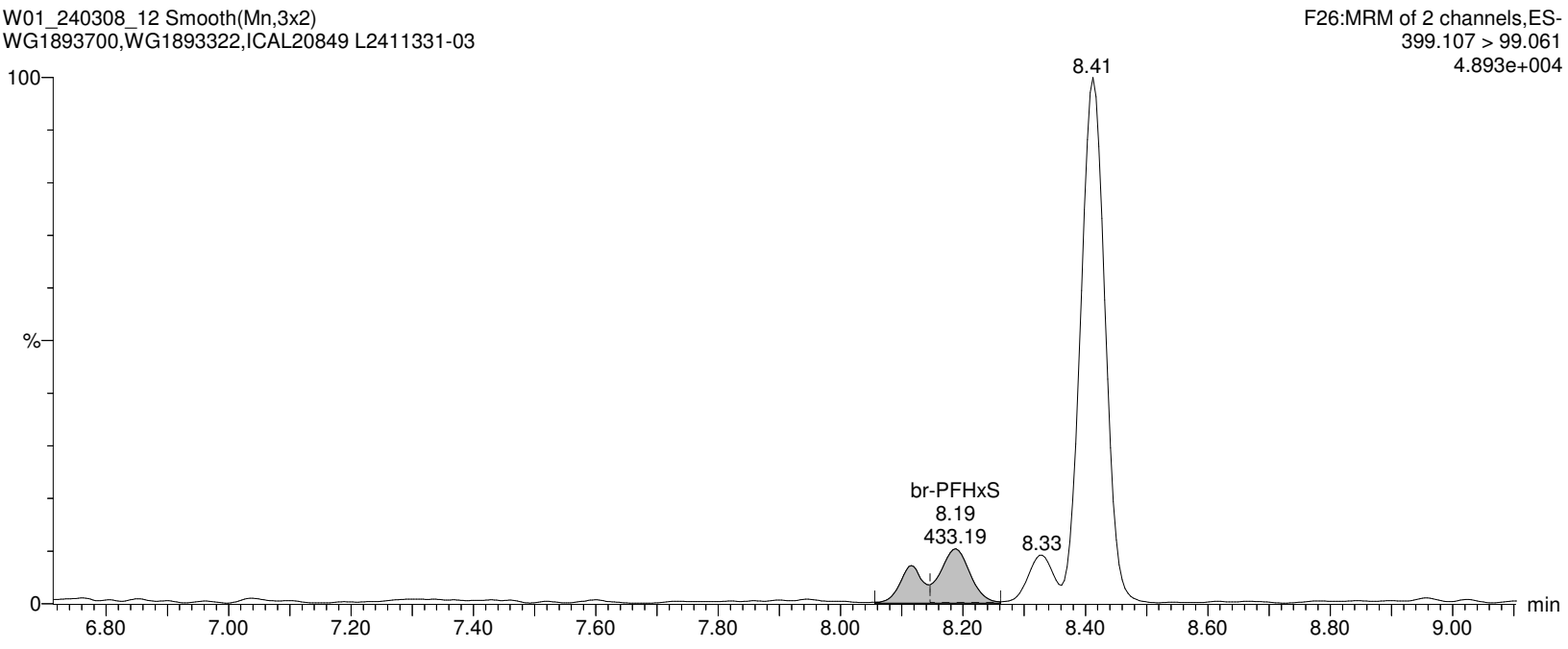

all concentration units in (ng/mL)

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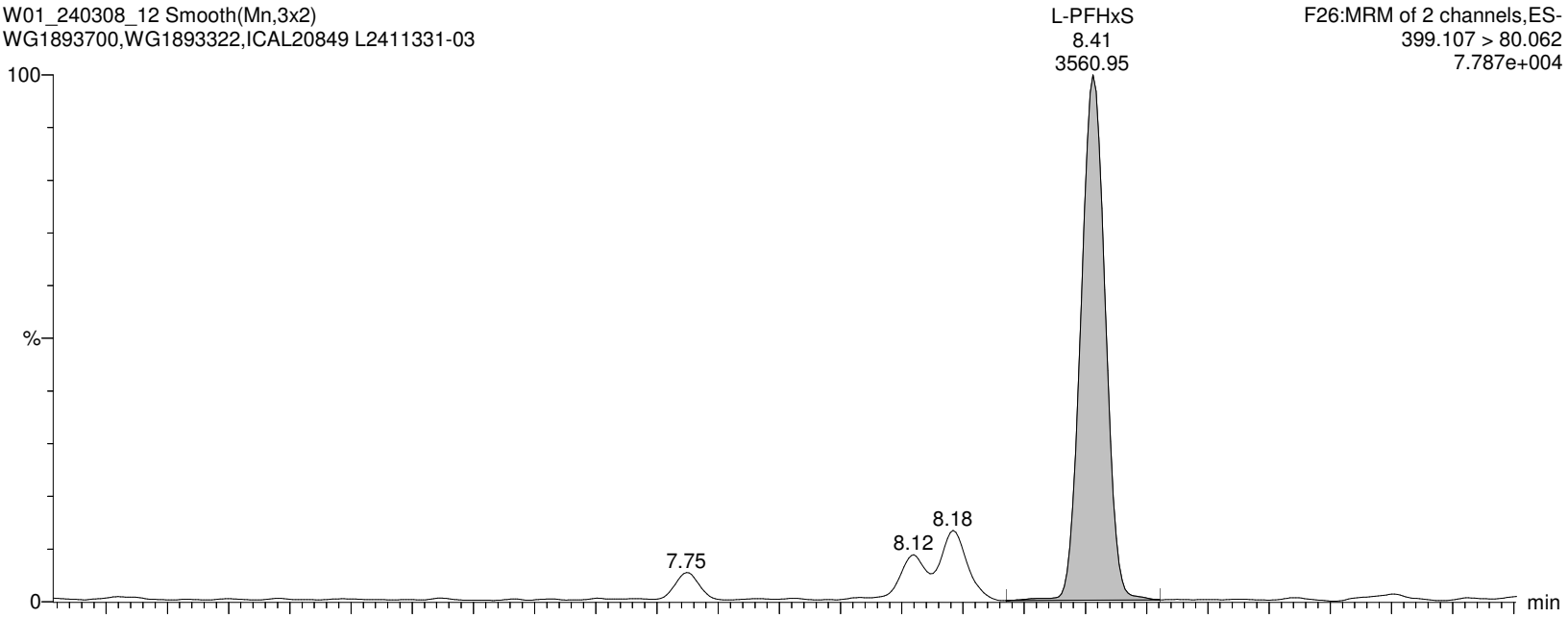

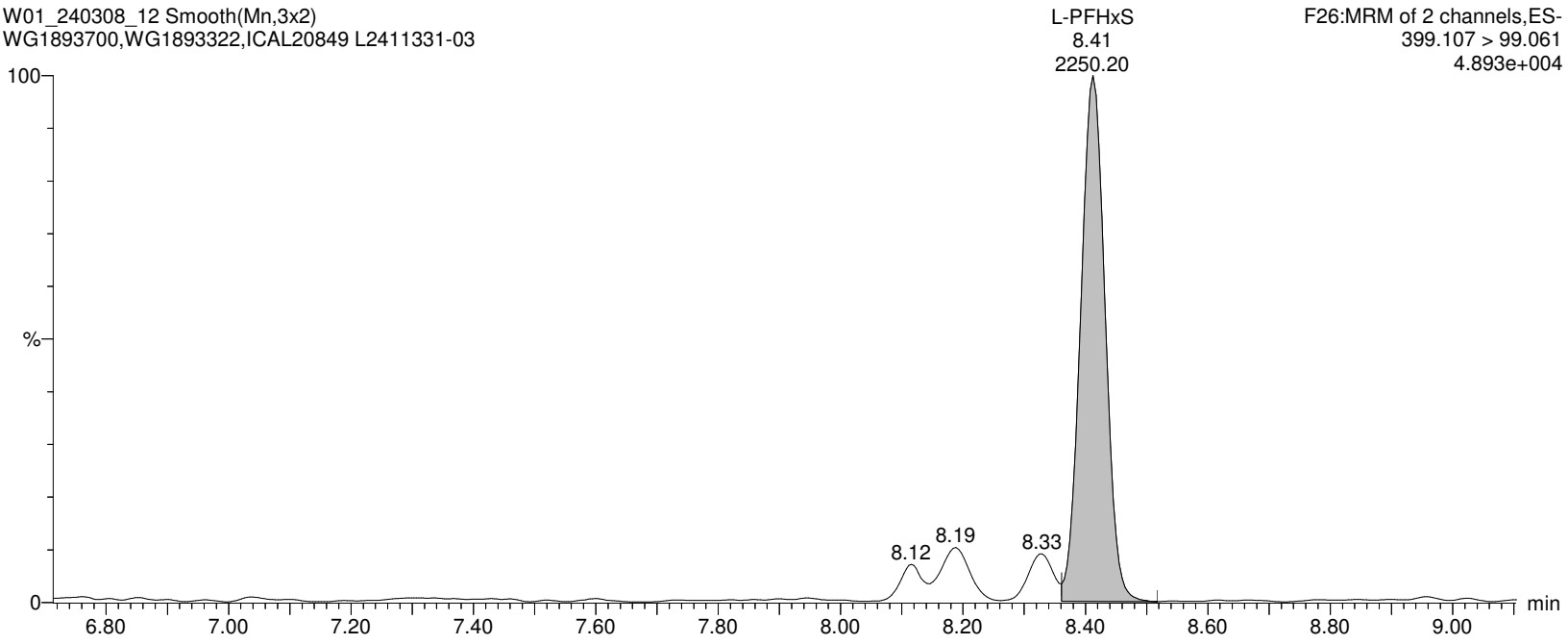

all concentration units in (ng/mL)

Alpha Analytical Inc.
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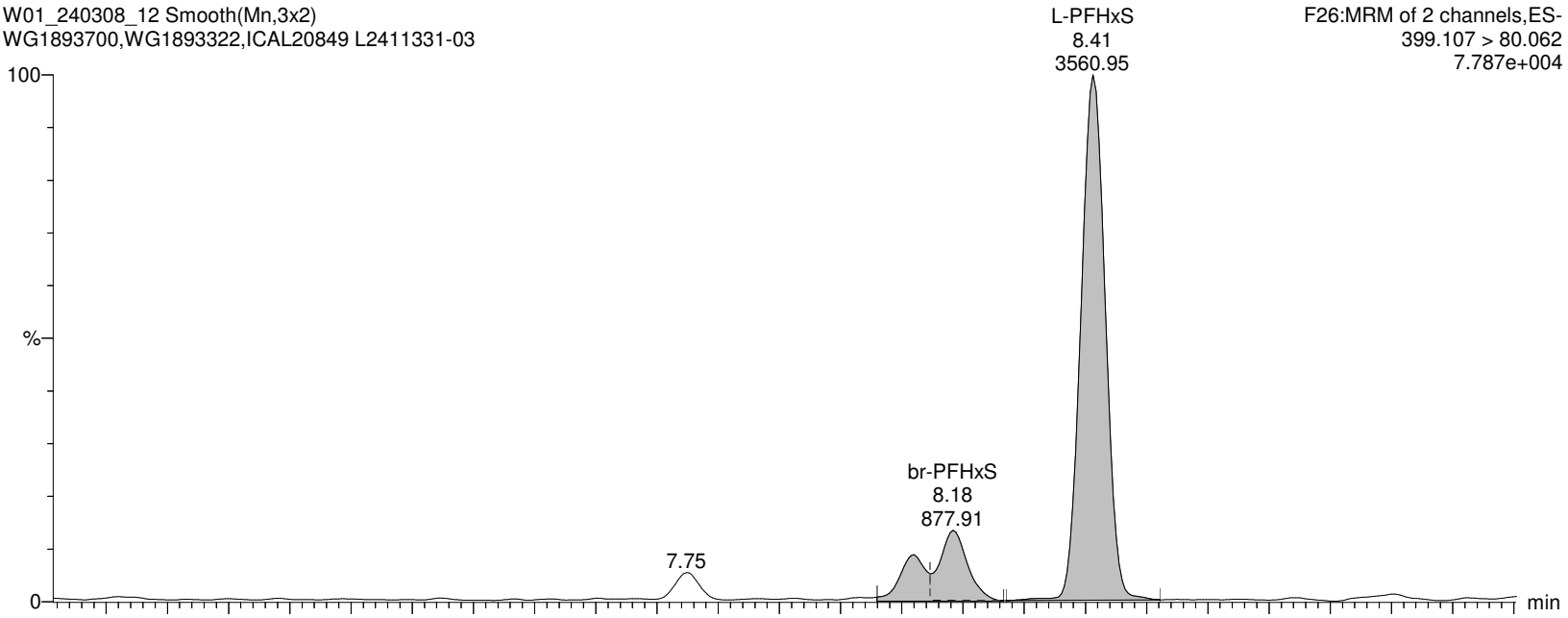

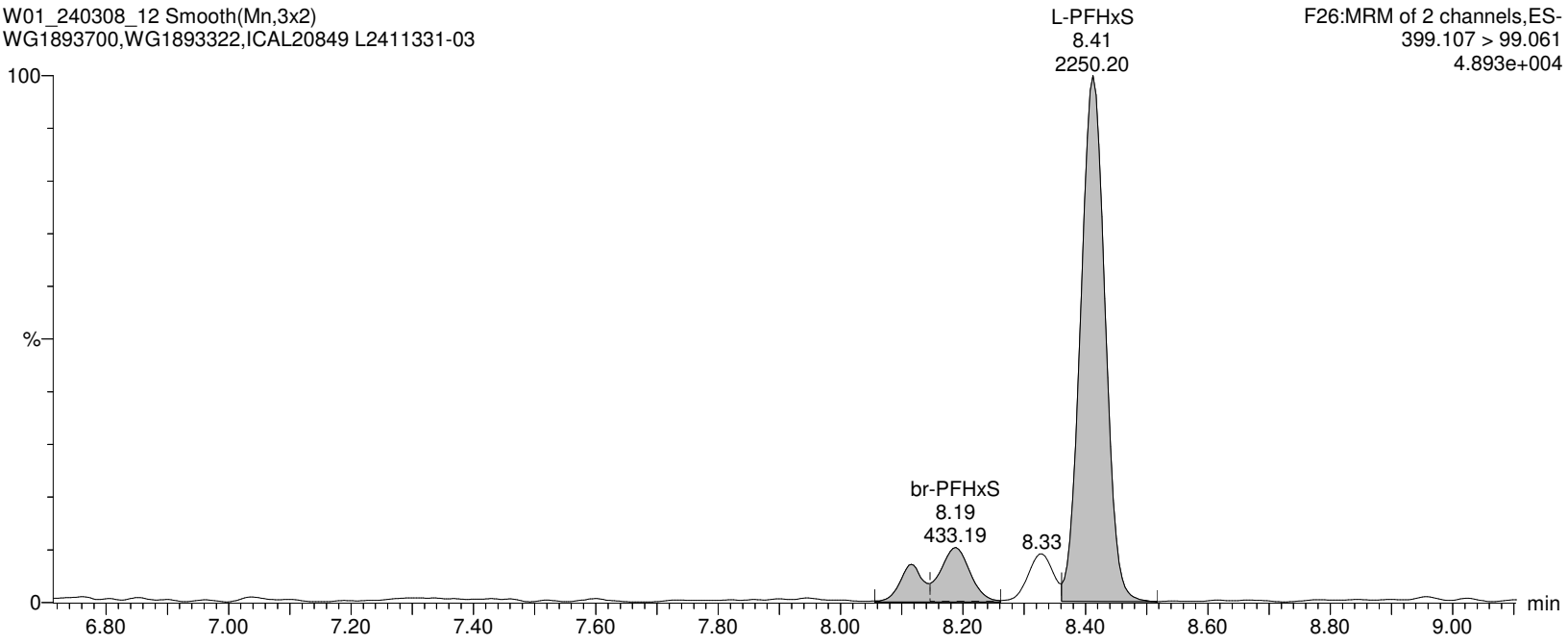

all concentration units in (ng/mL)

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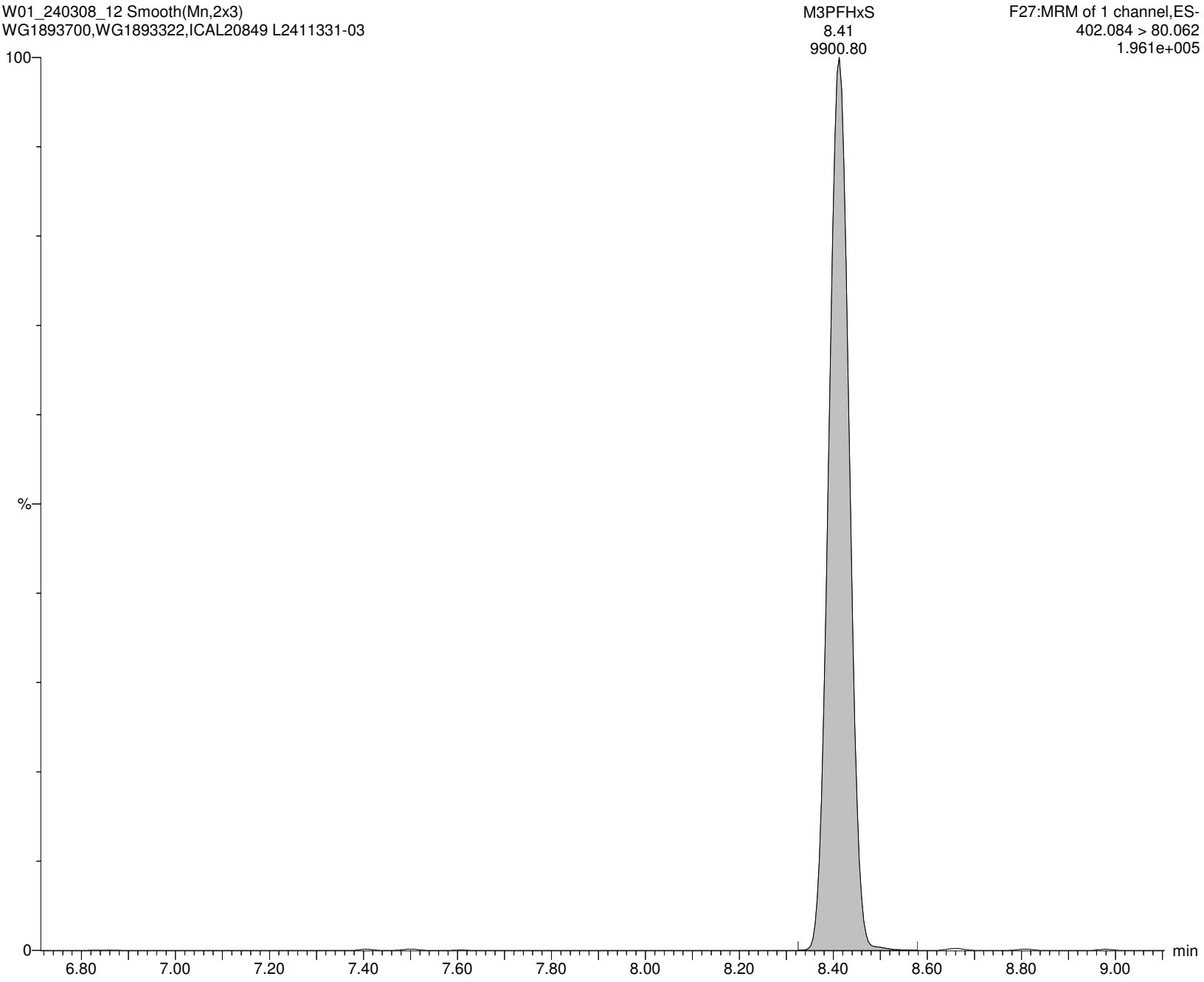

all concentration units in (ng/mL)

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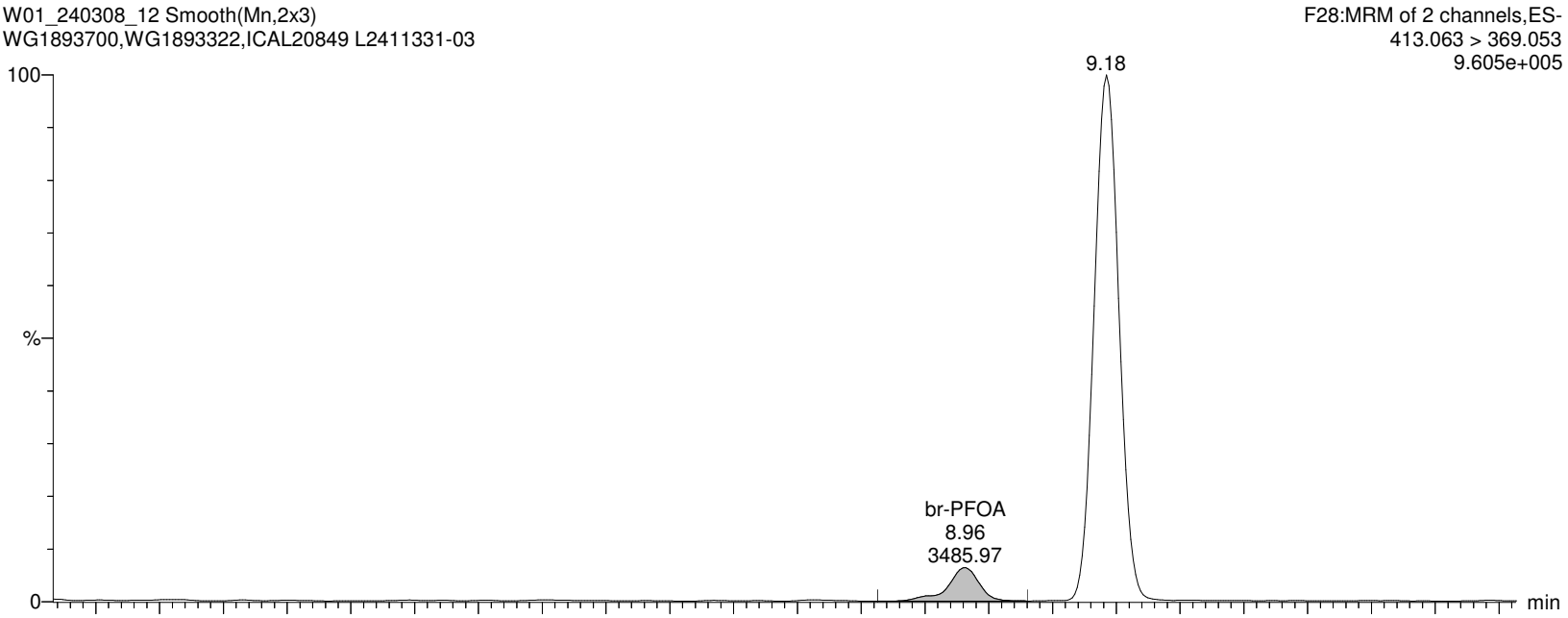

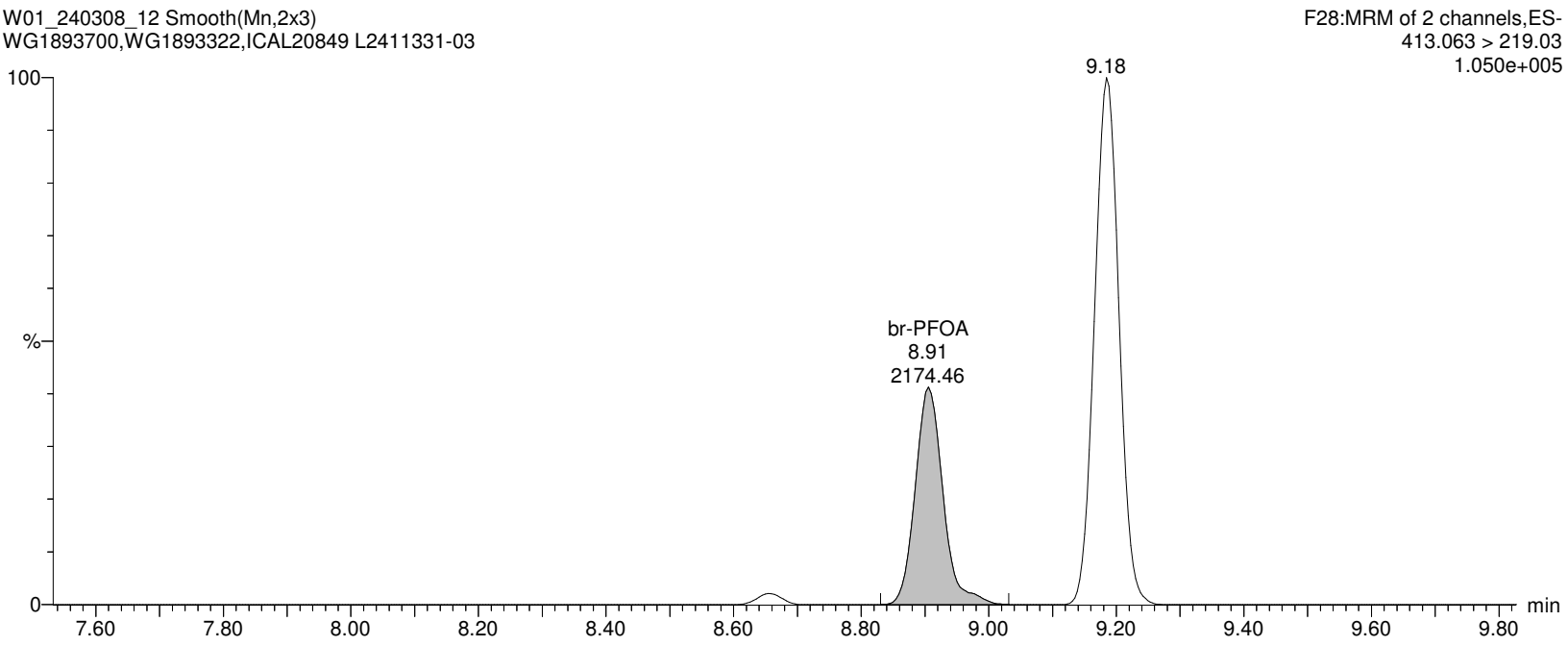

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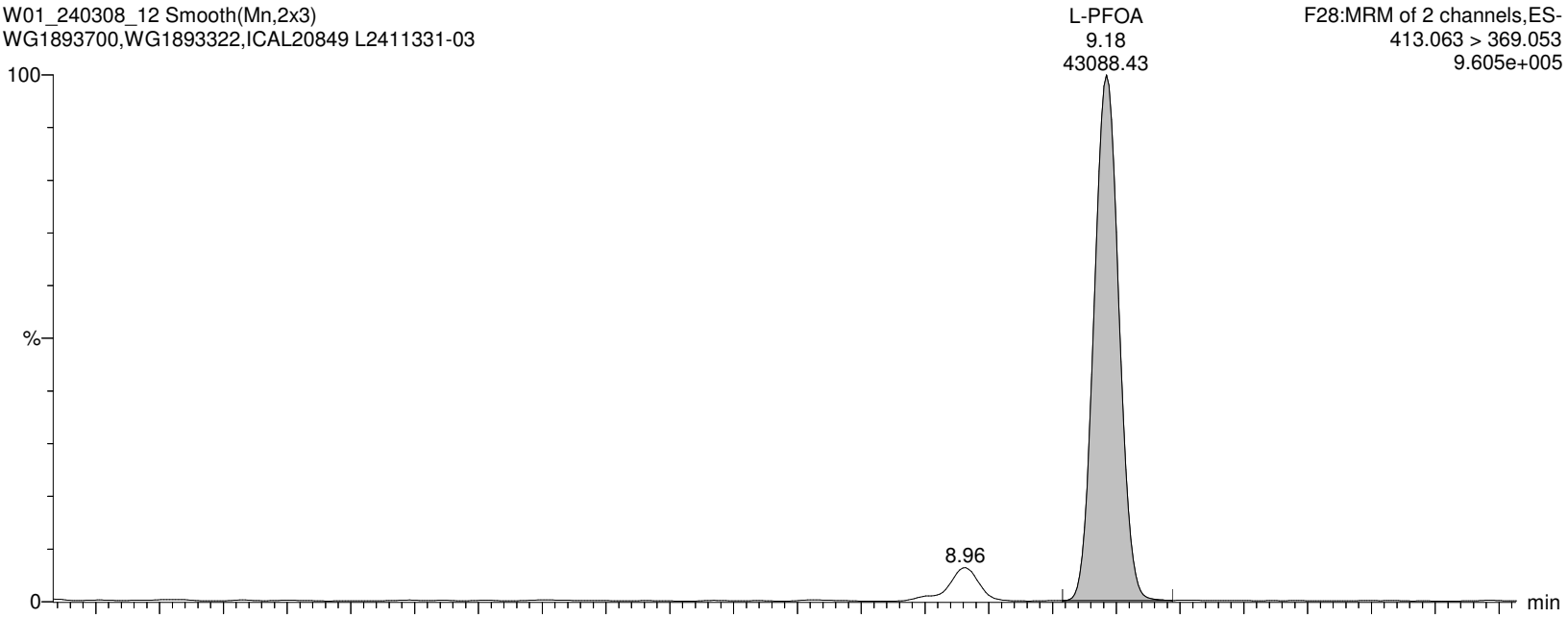

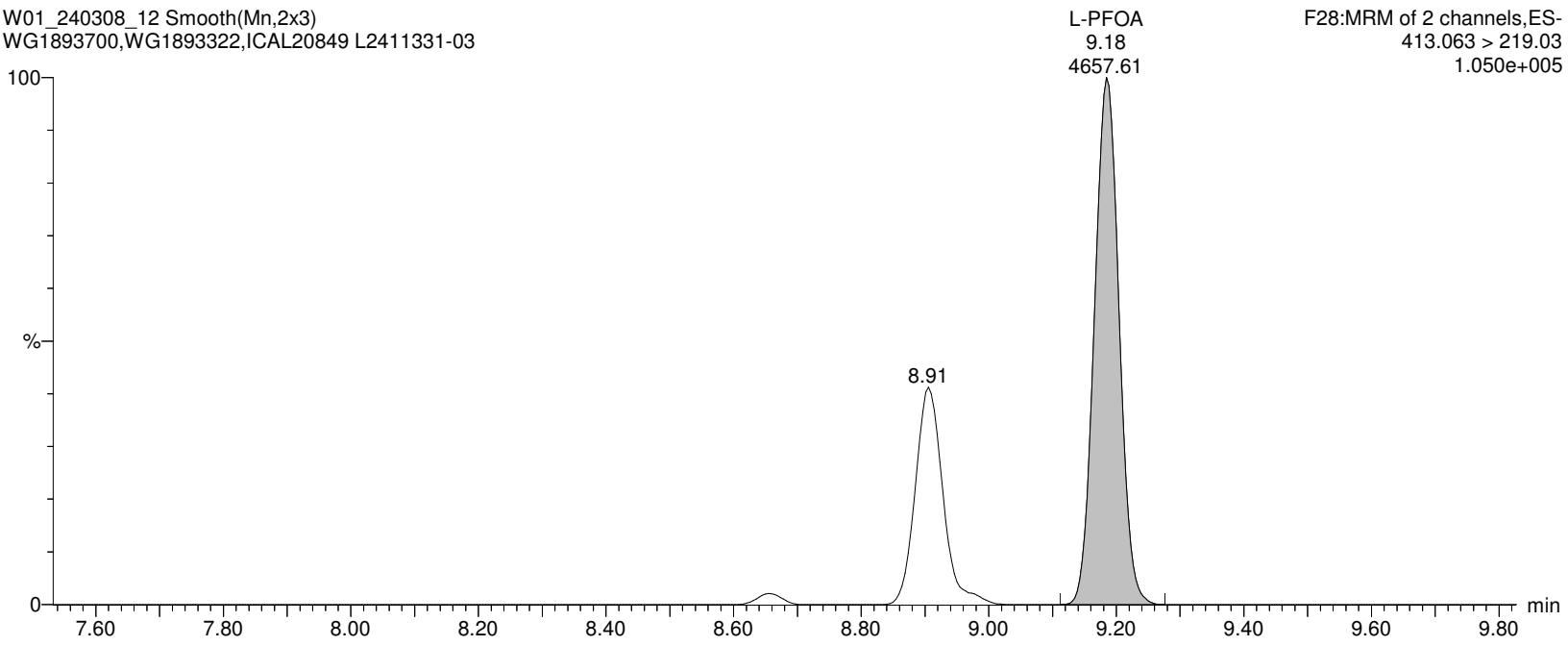

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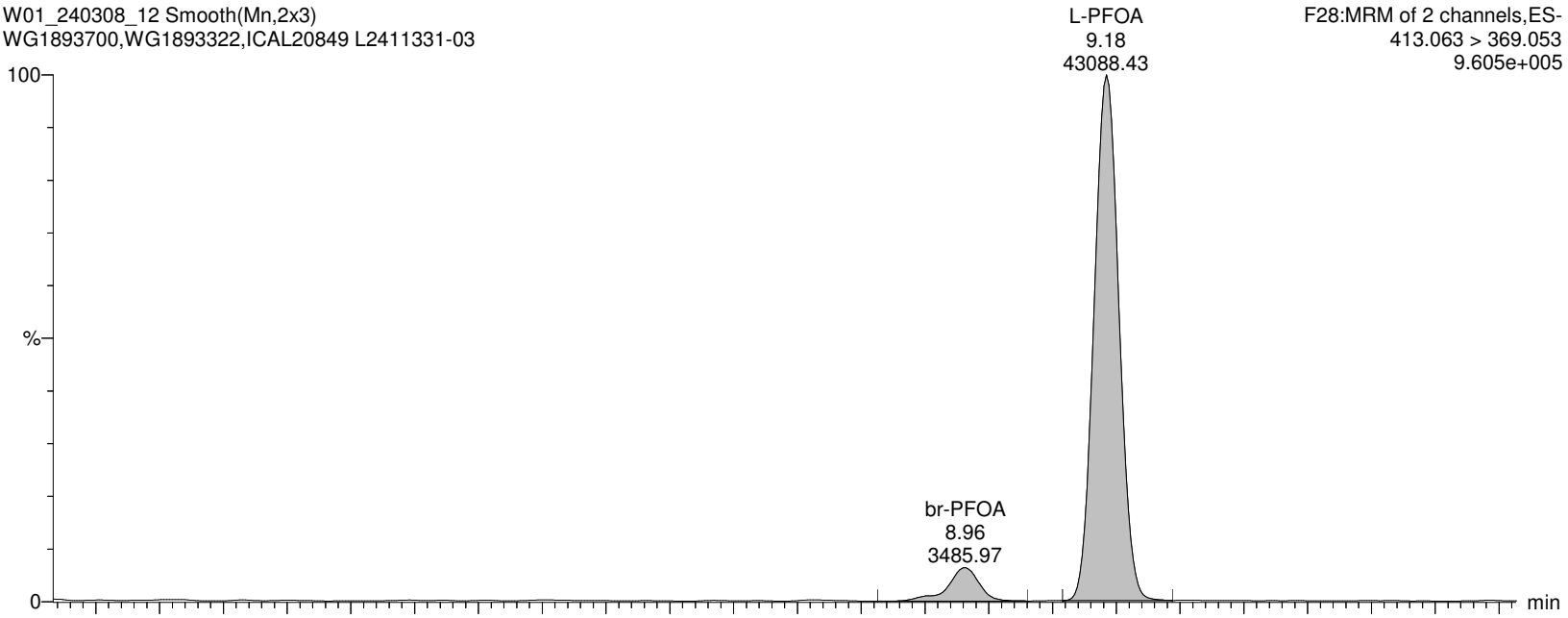

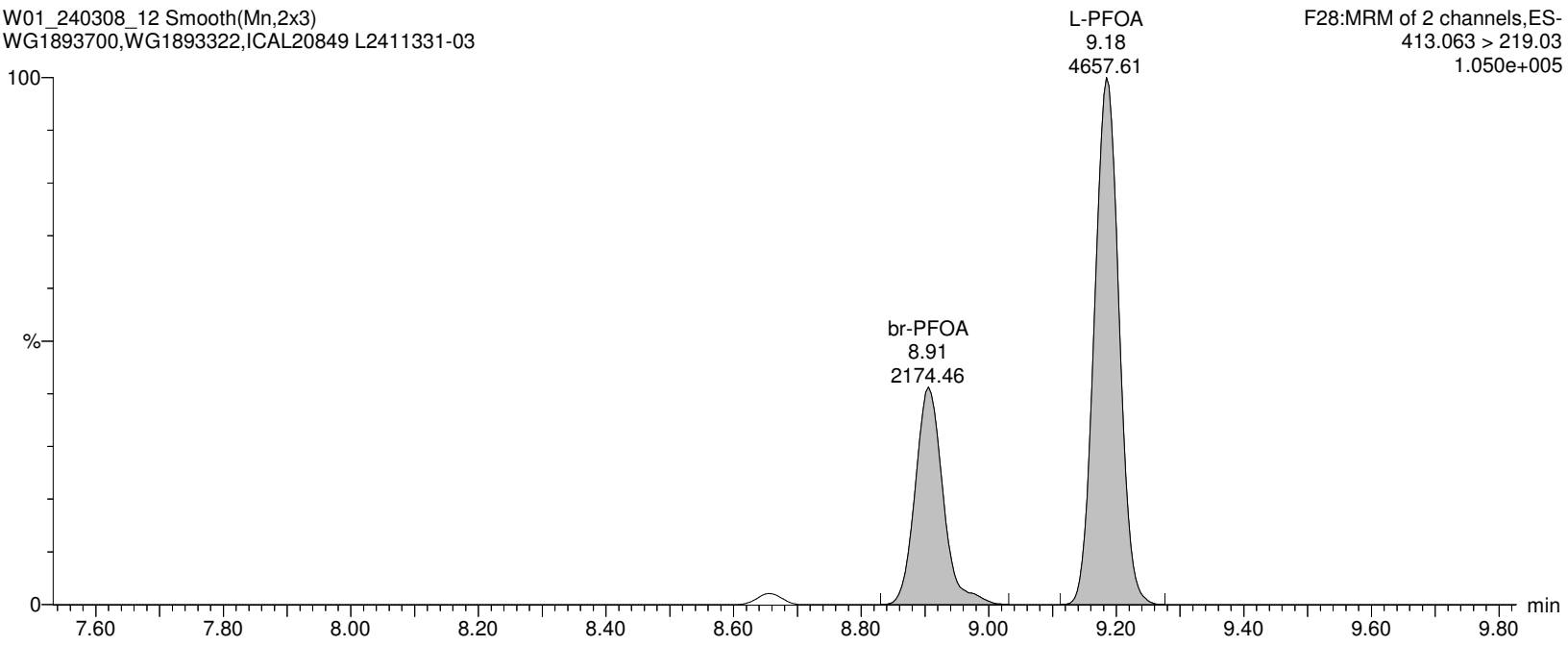

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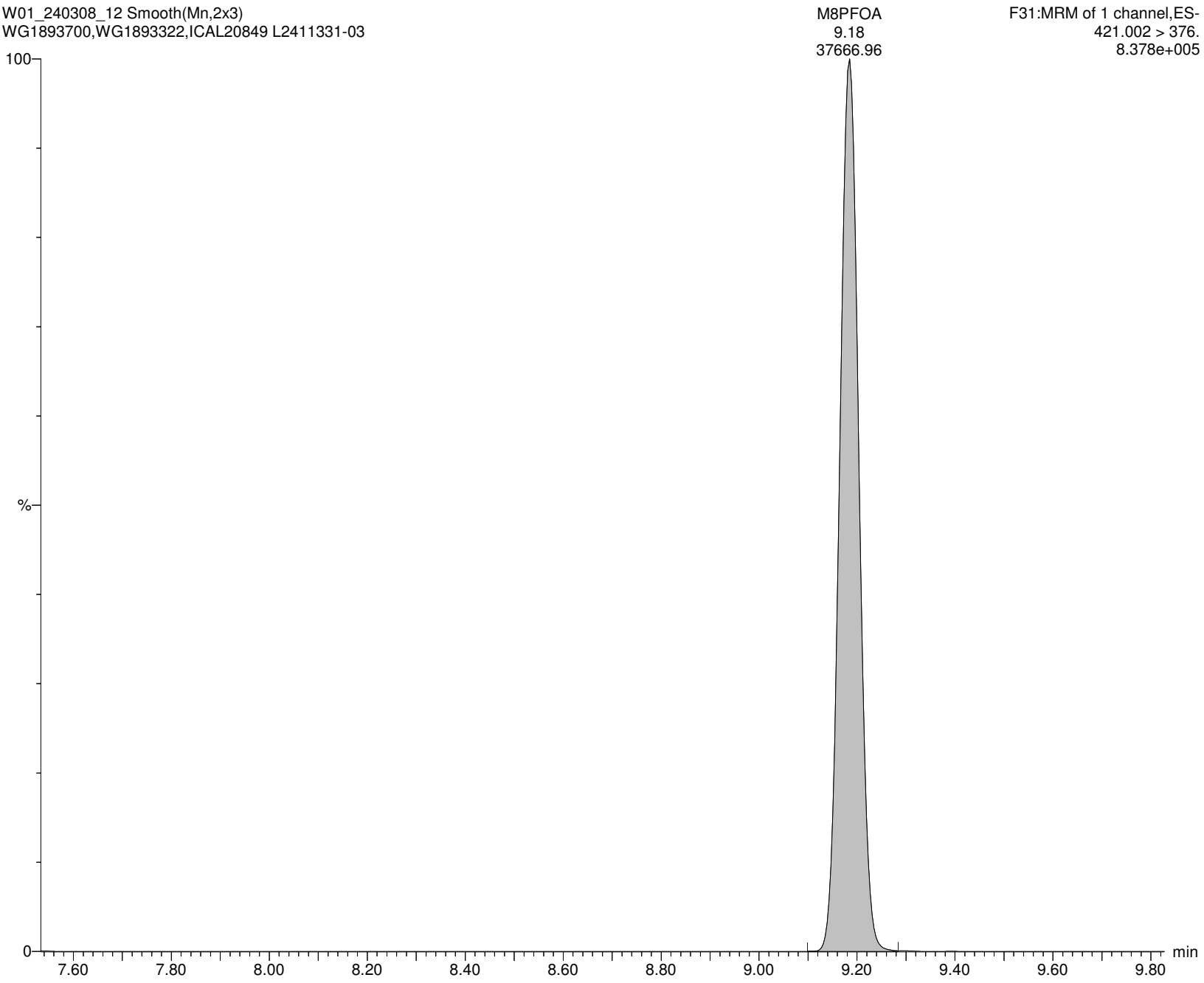

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:43 Eastern Standard Time

Name: W01_240308_12
ID: L2411331-03
Date: 08-Mar-2024
Time: 08:05:51
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
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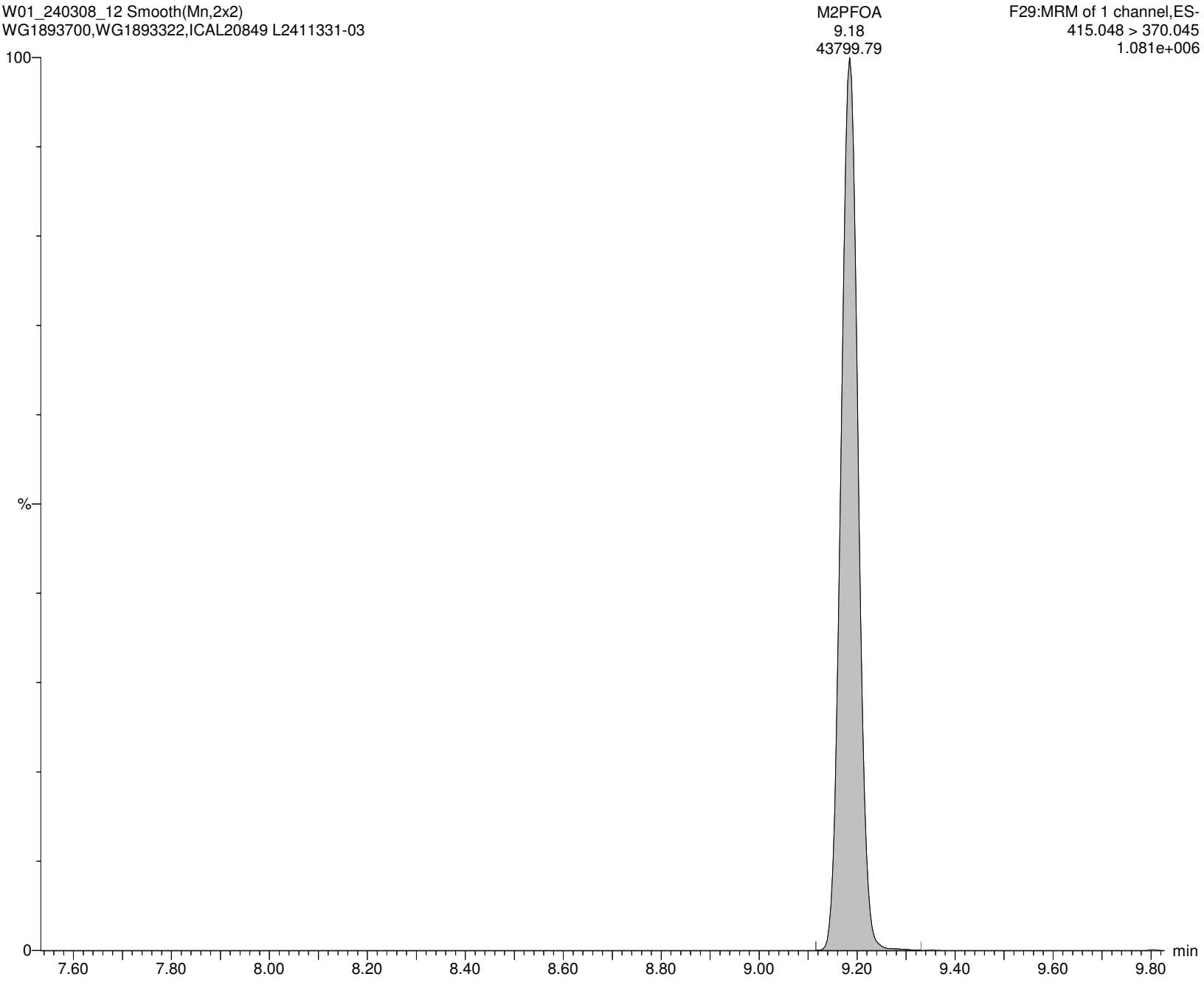

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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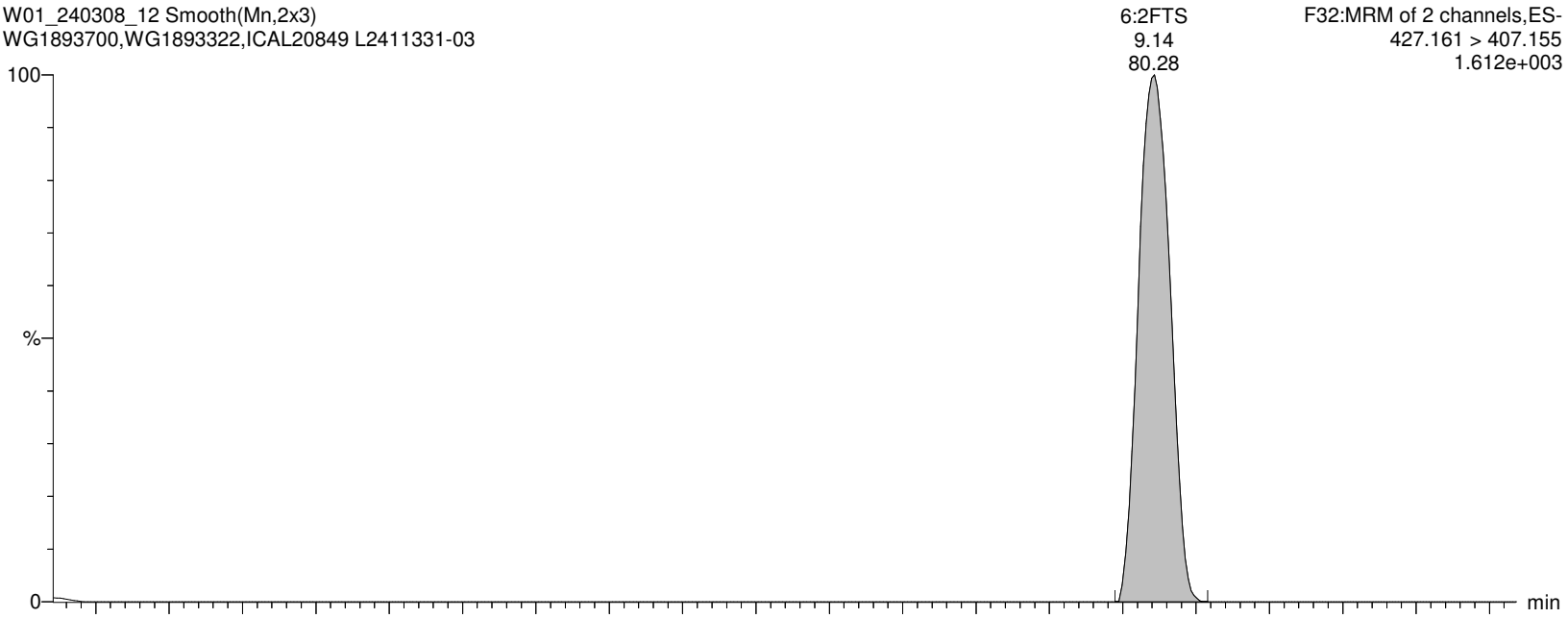

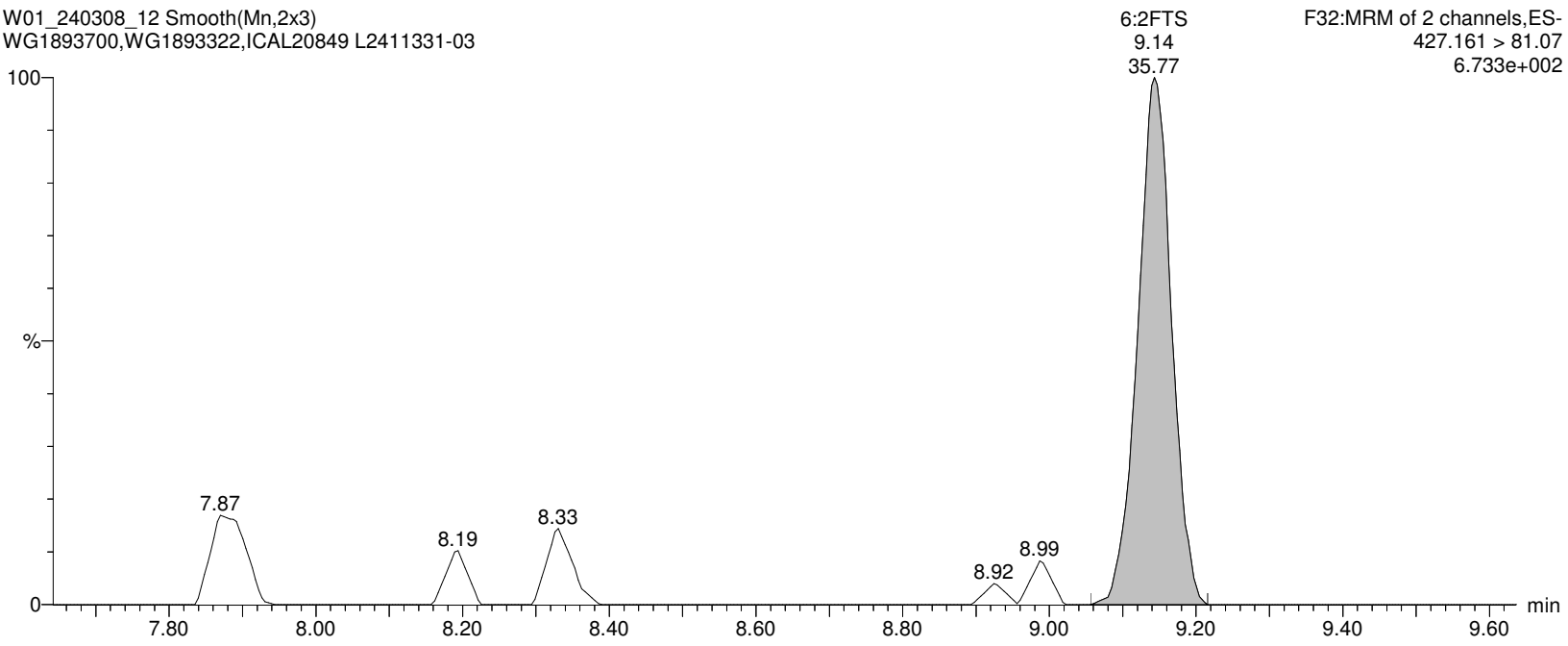

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,7
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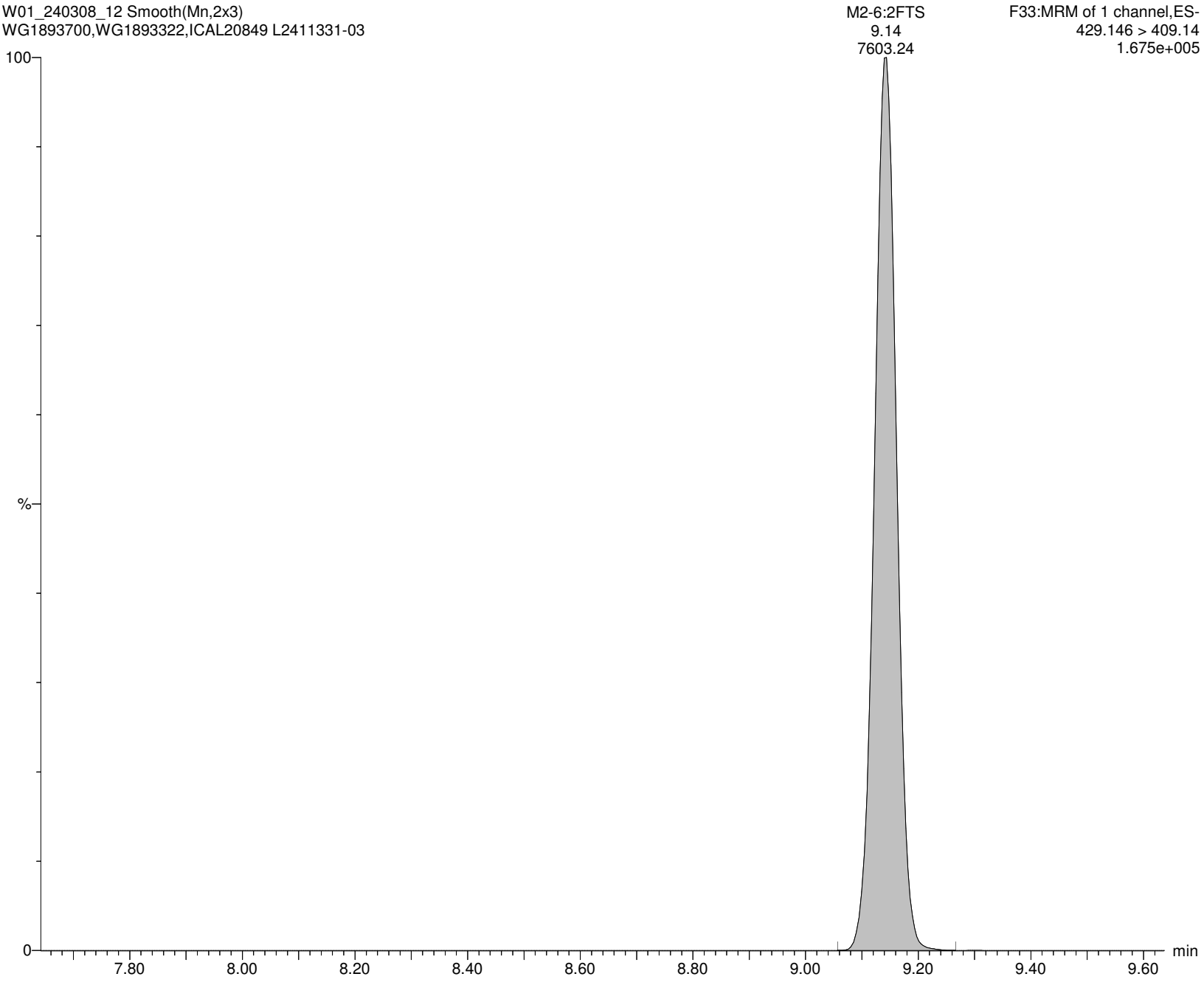

all concentration units in (ng/mL)

Alpha Analytical Inc.
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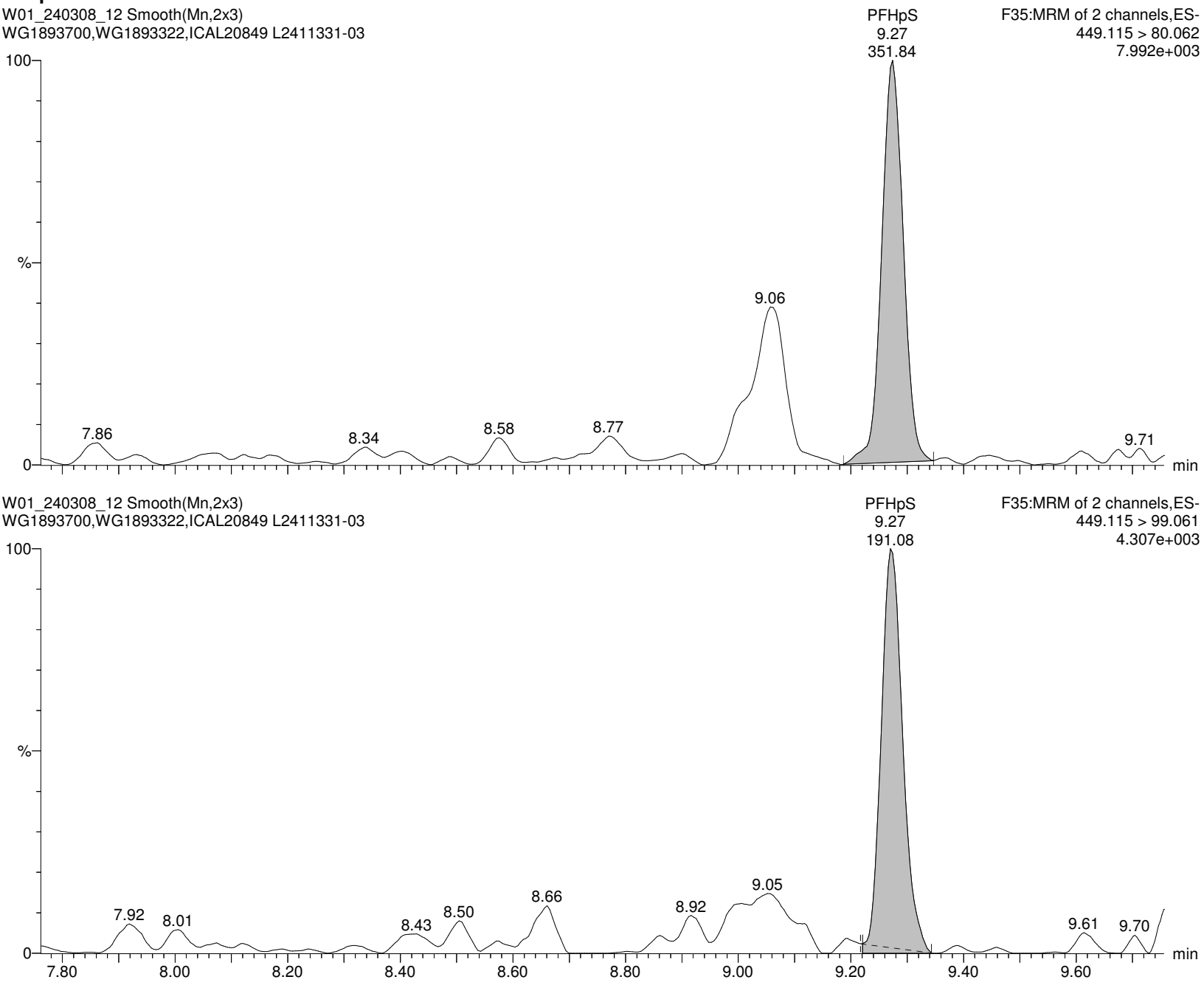
PFHpS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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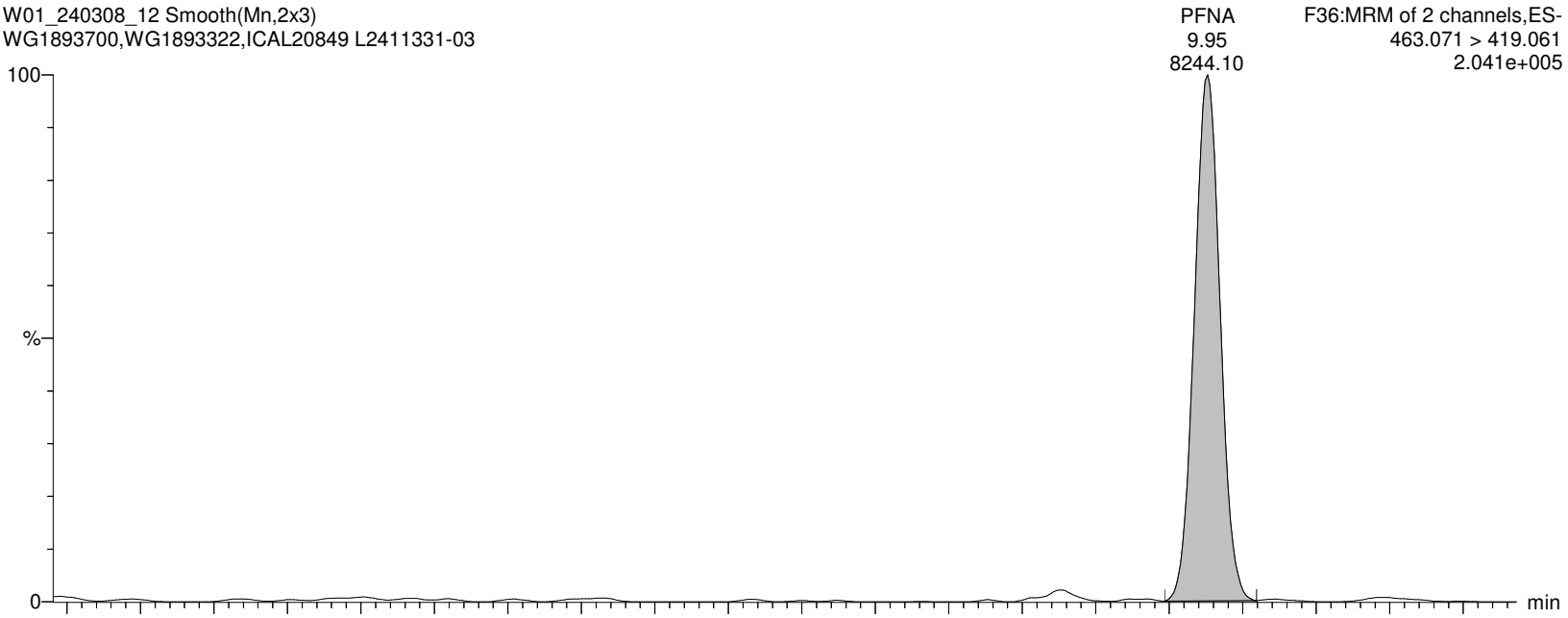

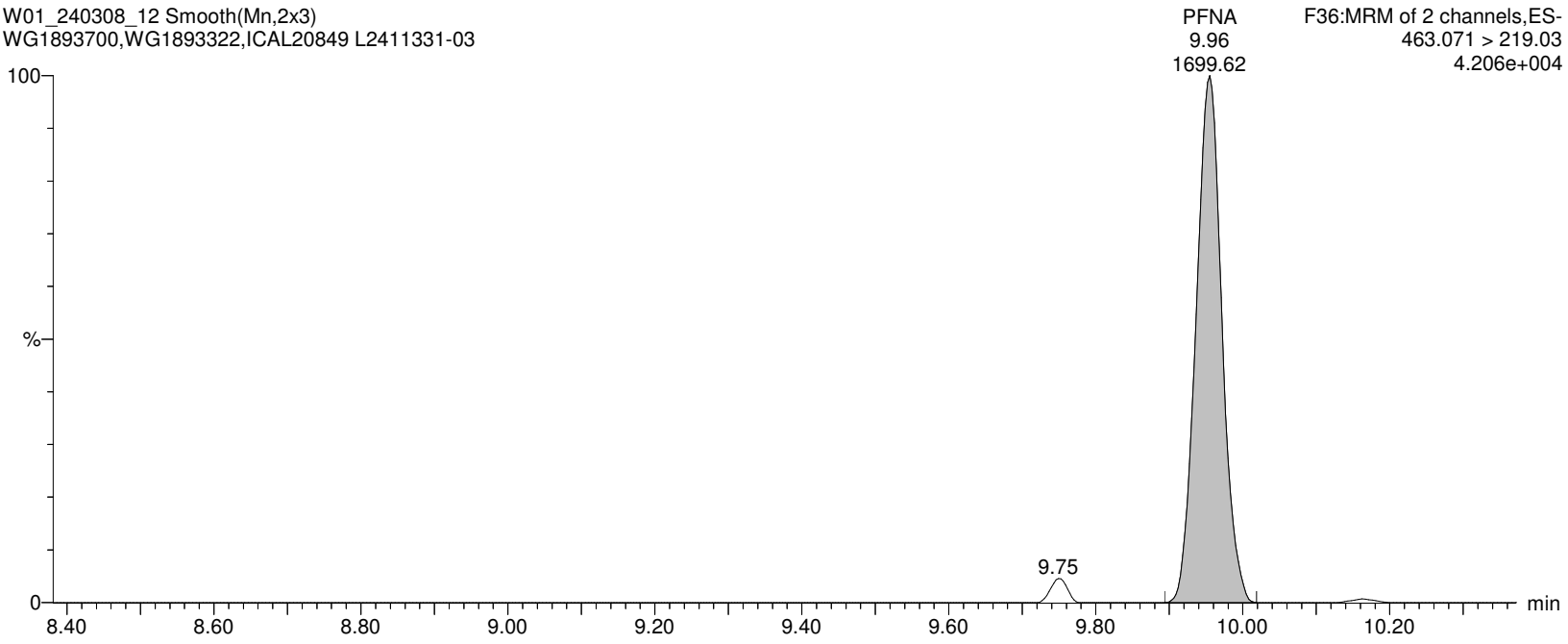

all concentration units in (ng/mL)

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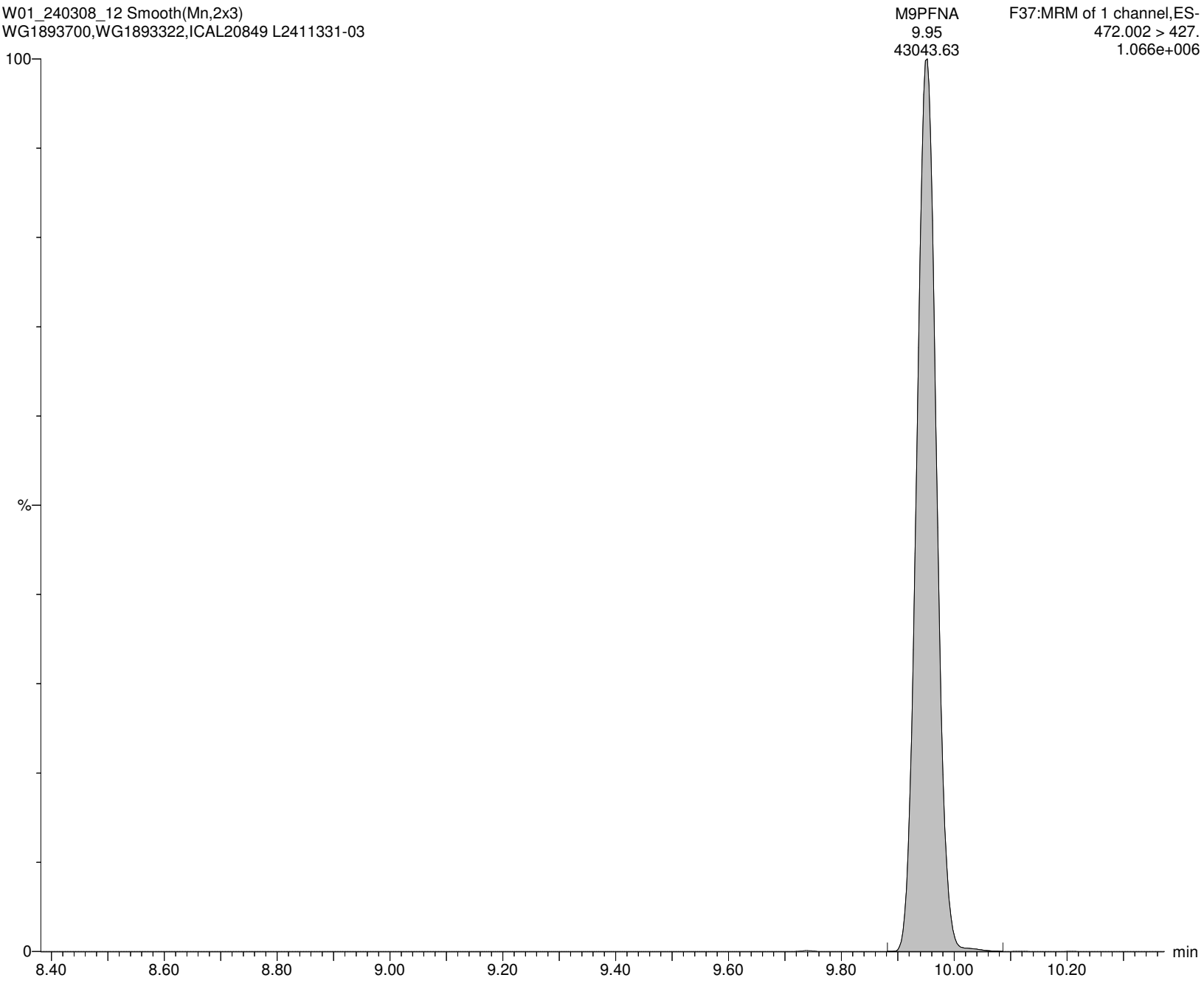

all concentration units in (ng/mL)

Alpha Analytical Inc.
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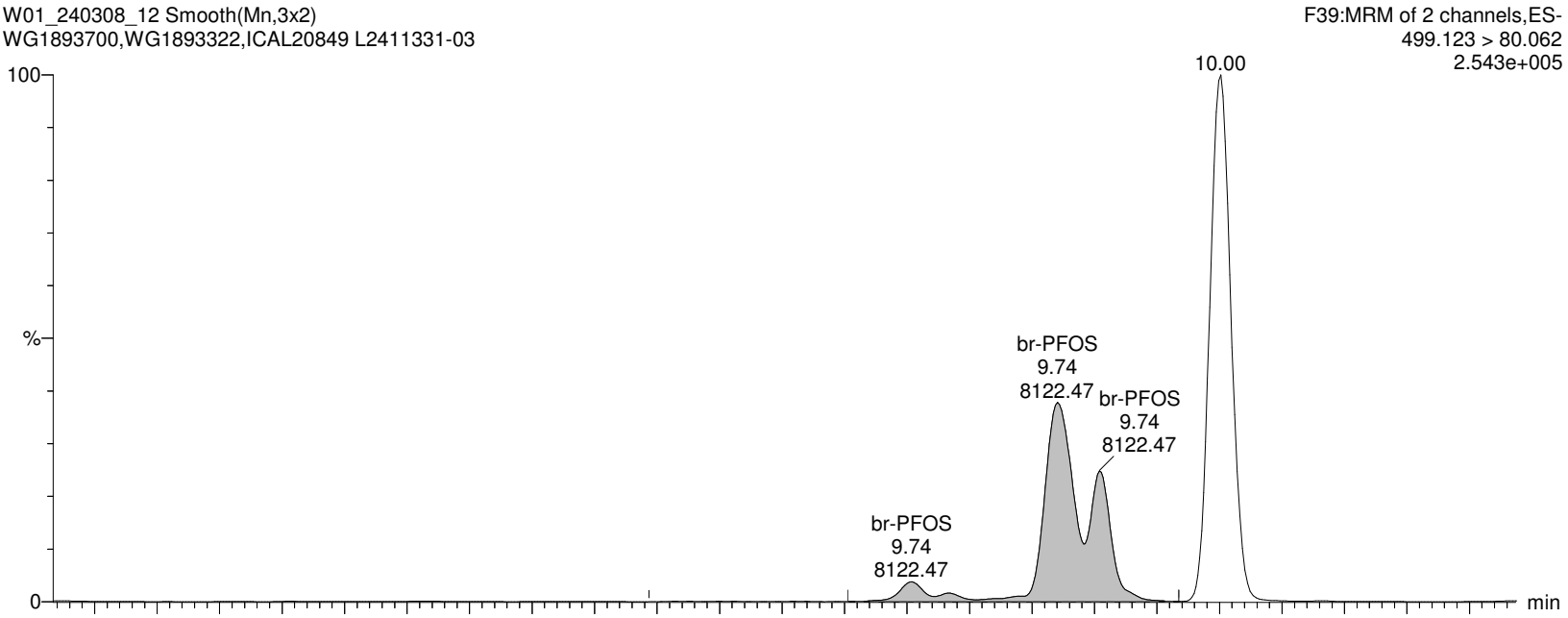

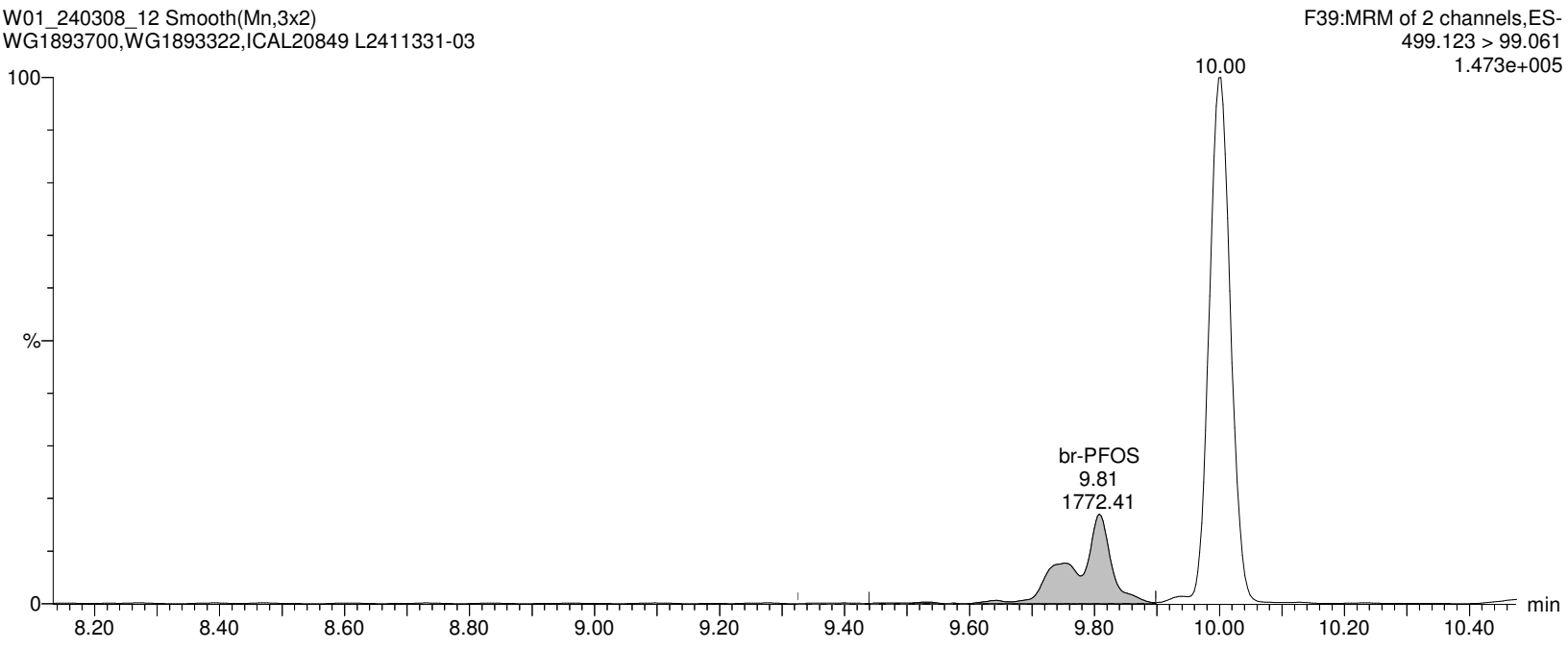

all concentration units in (ng/mL)

Alpha Analytical Inc.
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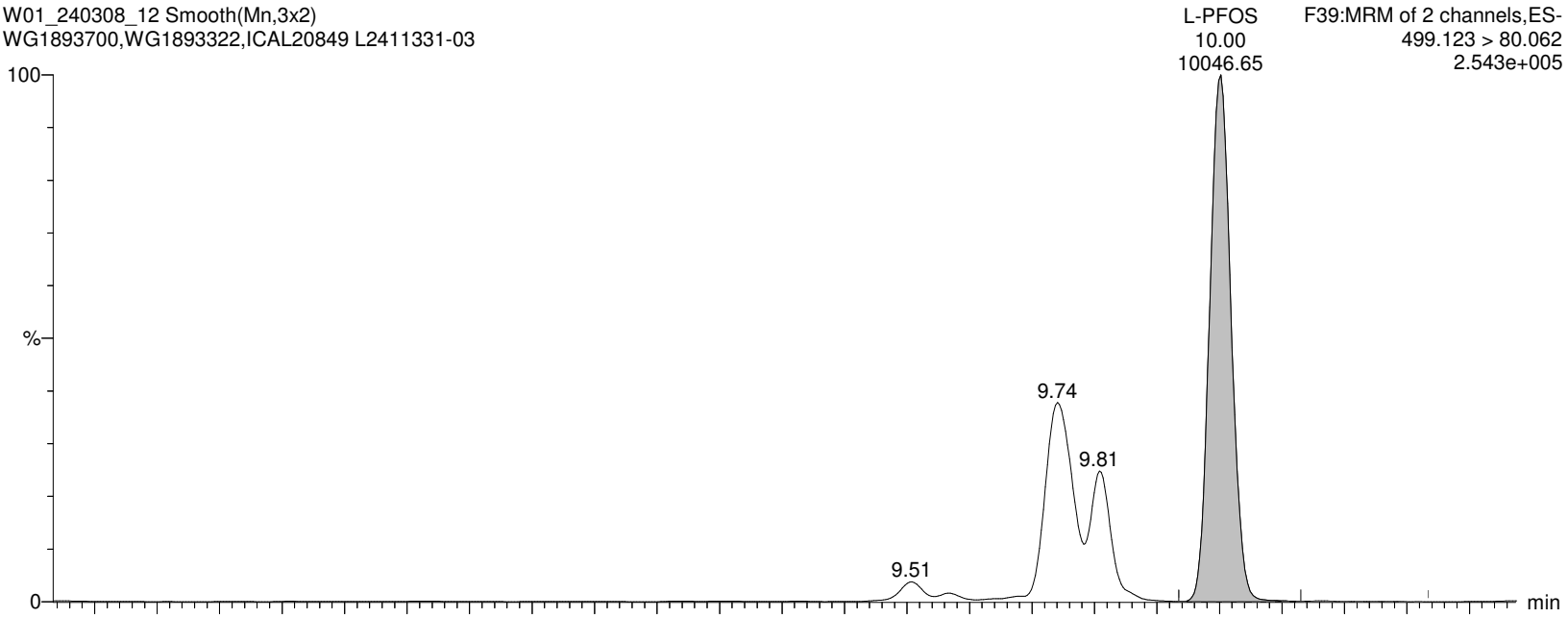

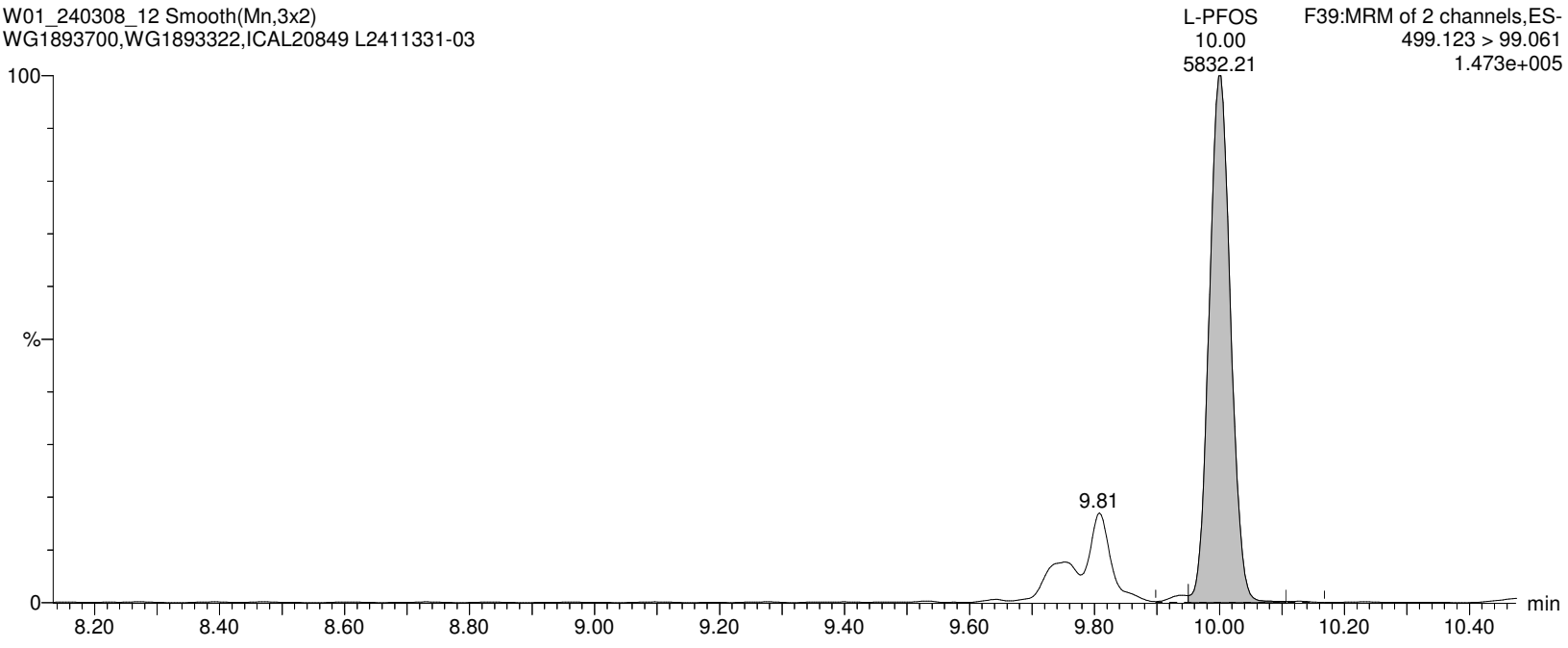

all concentration units in (ng/mL)

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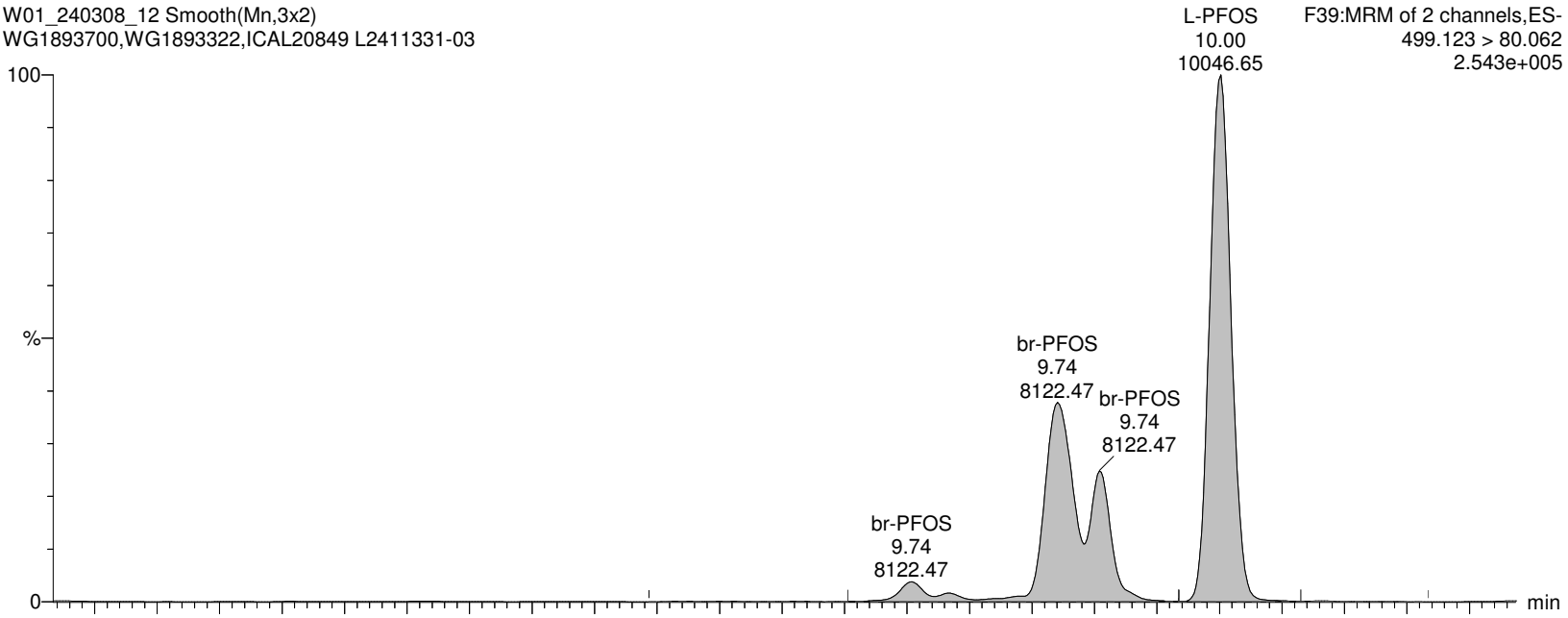

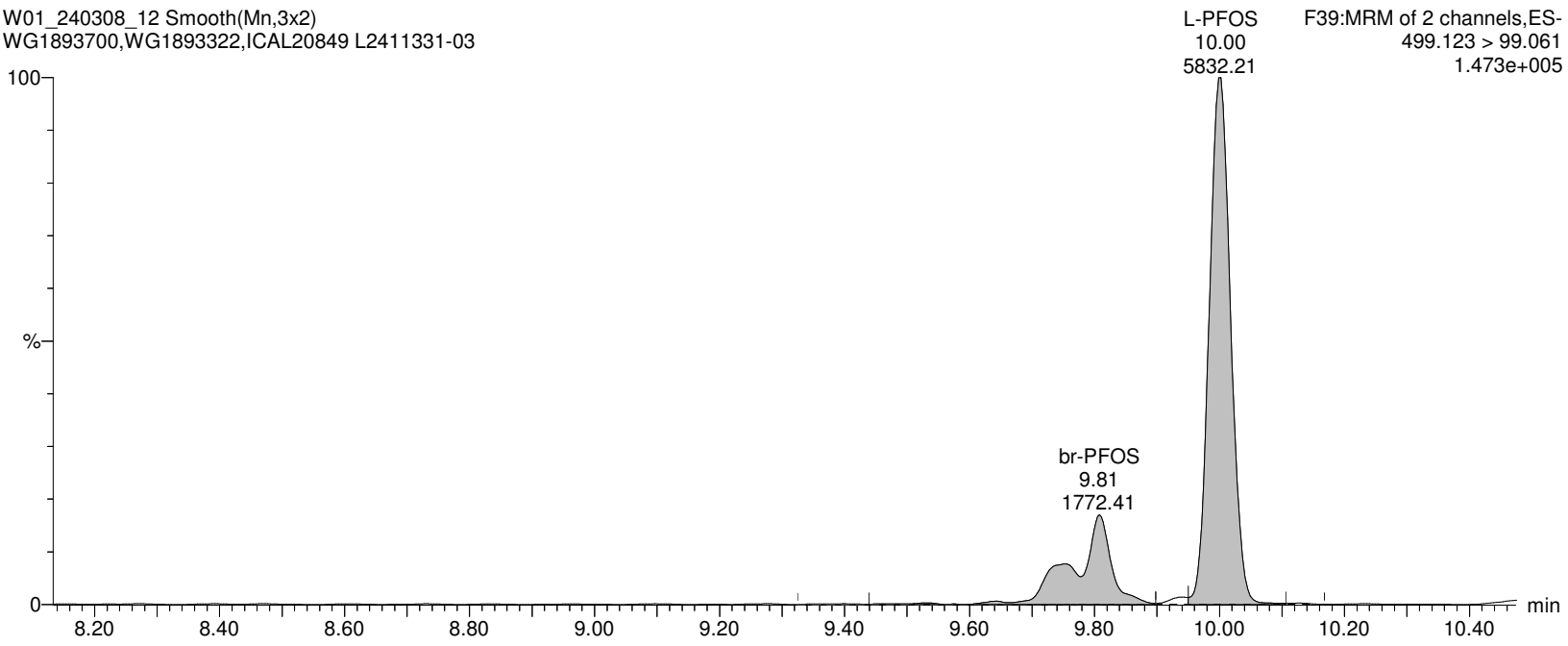

all concentration units in (ng/mL)

Alpha Analytical Inc.
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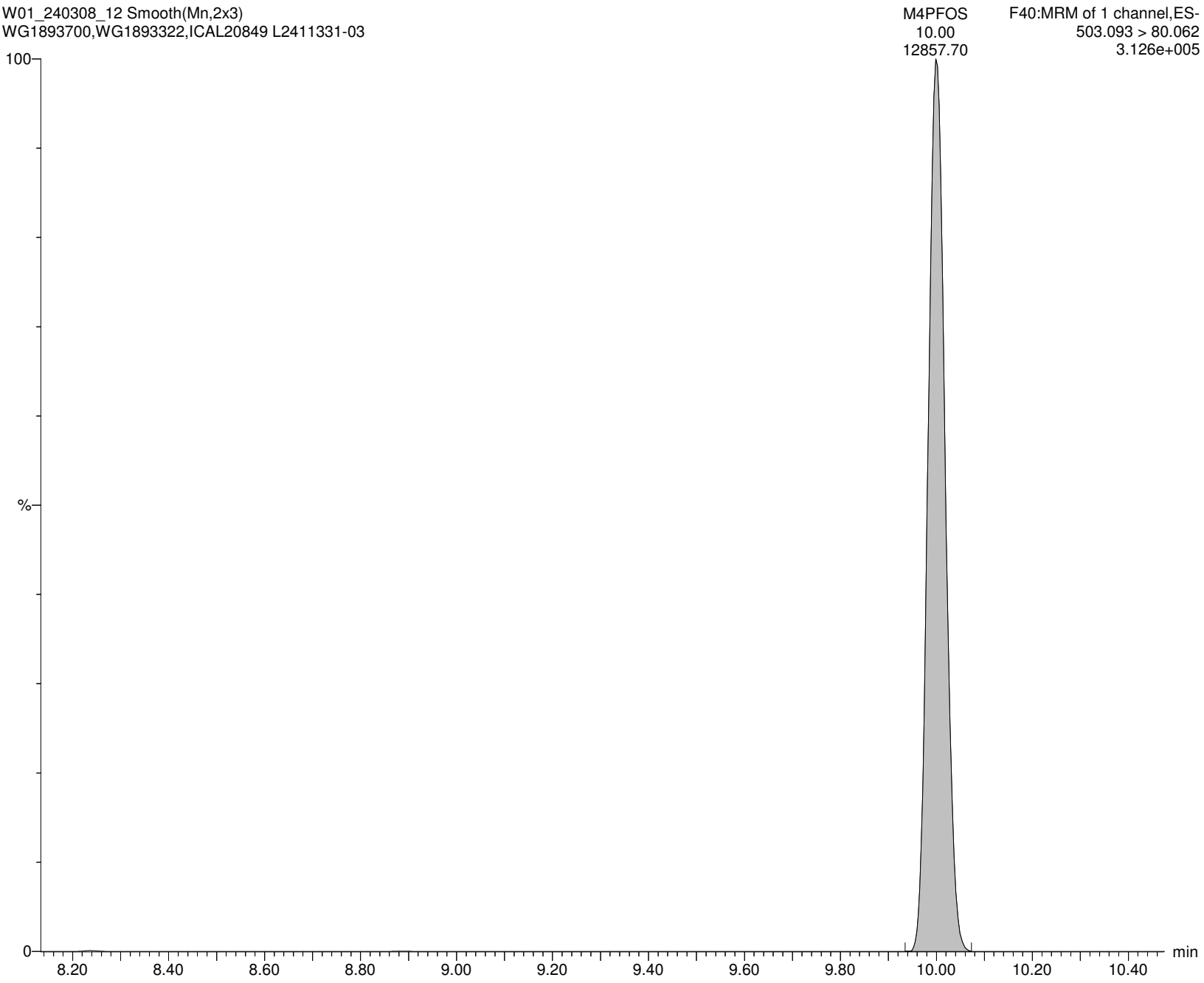
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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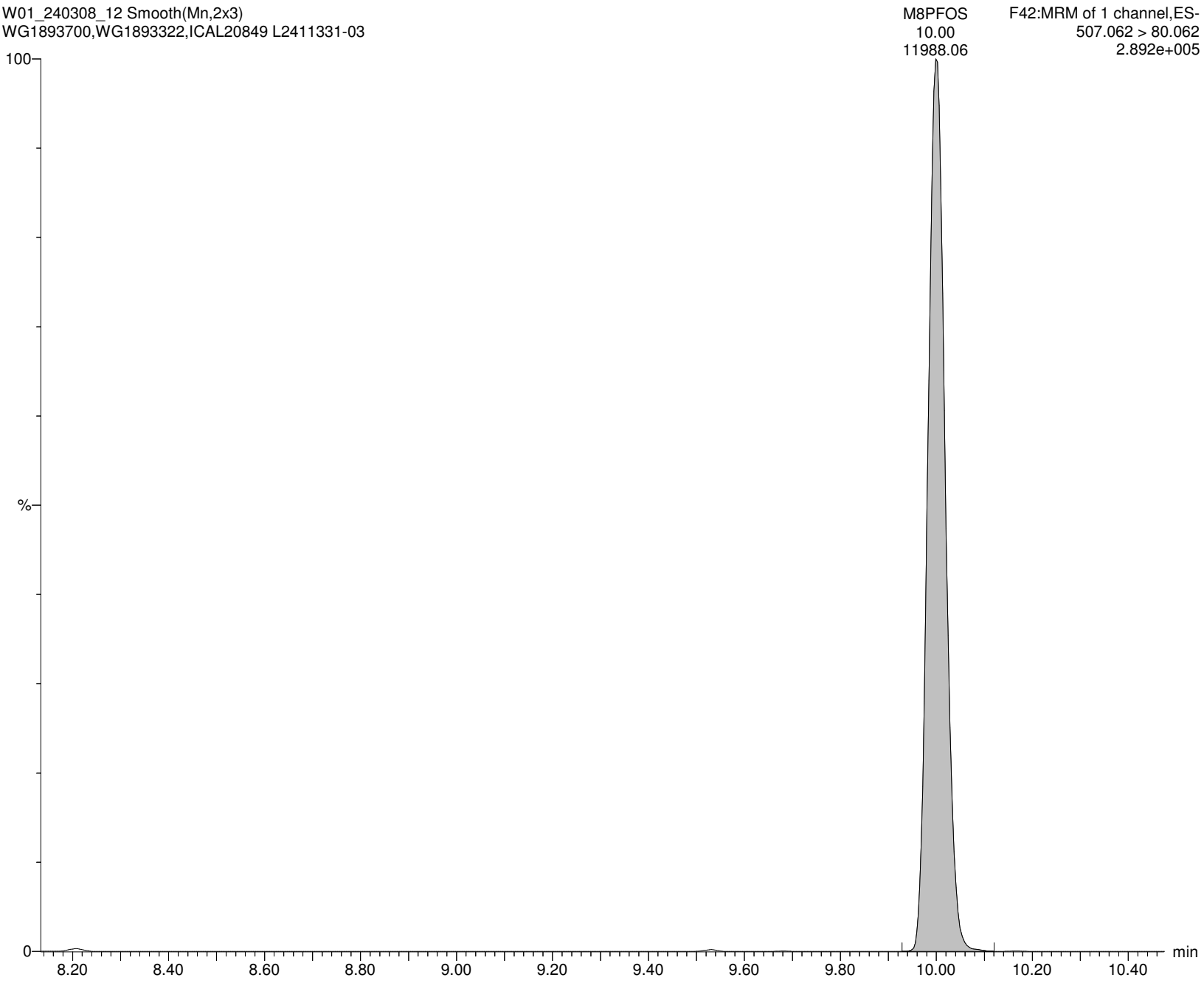
M8PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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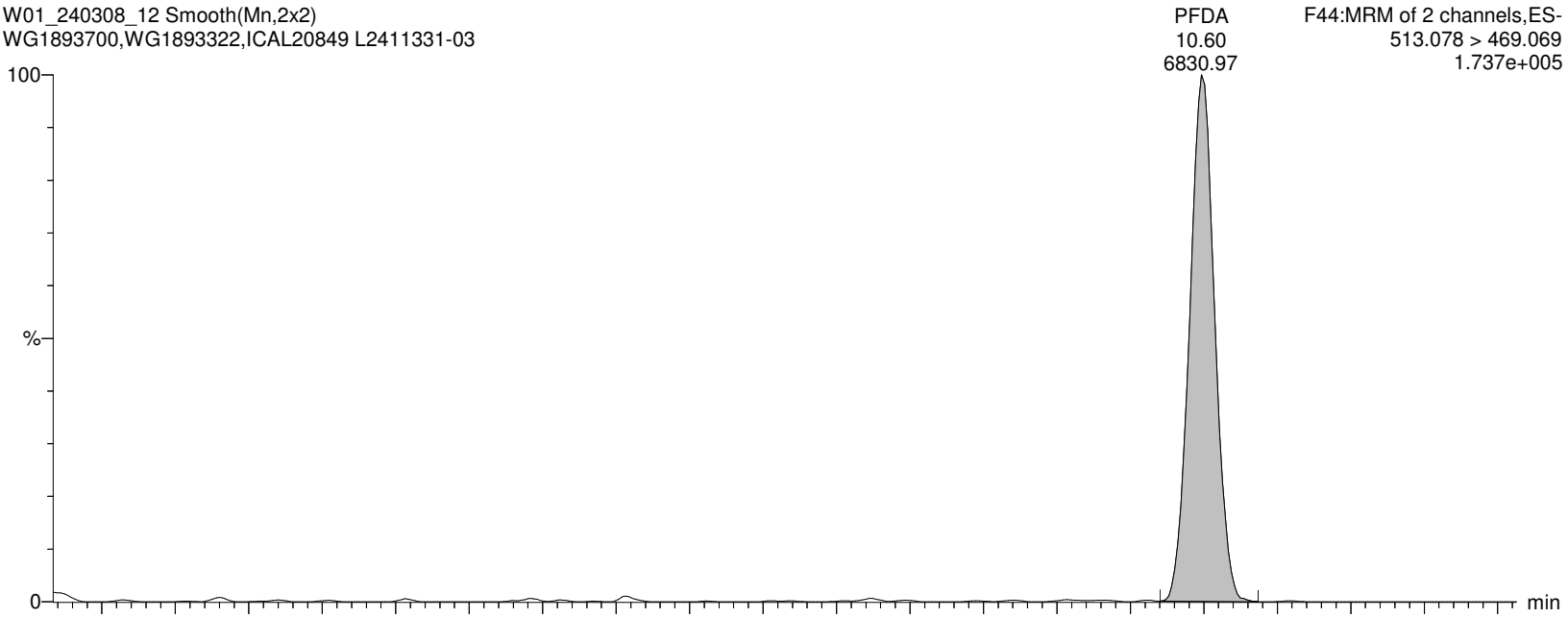

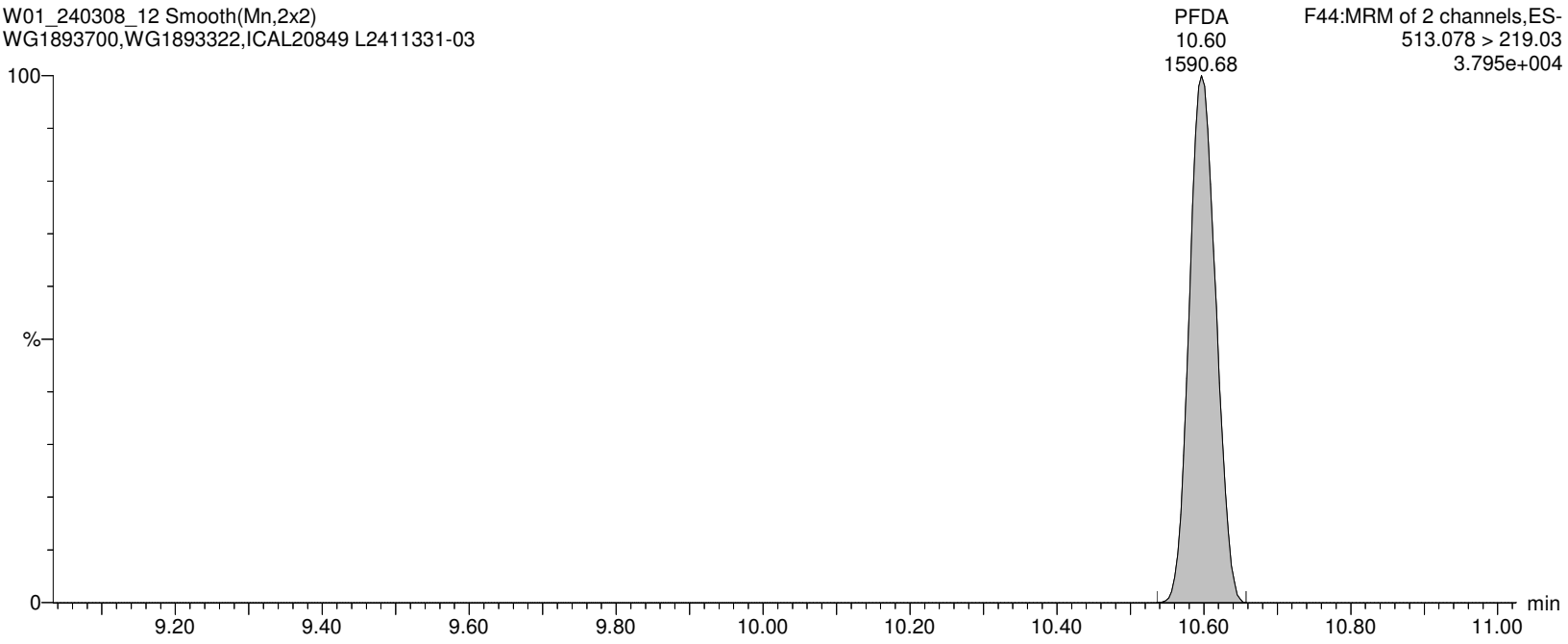

all concentration units in (ng/mL)

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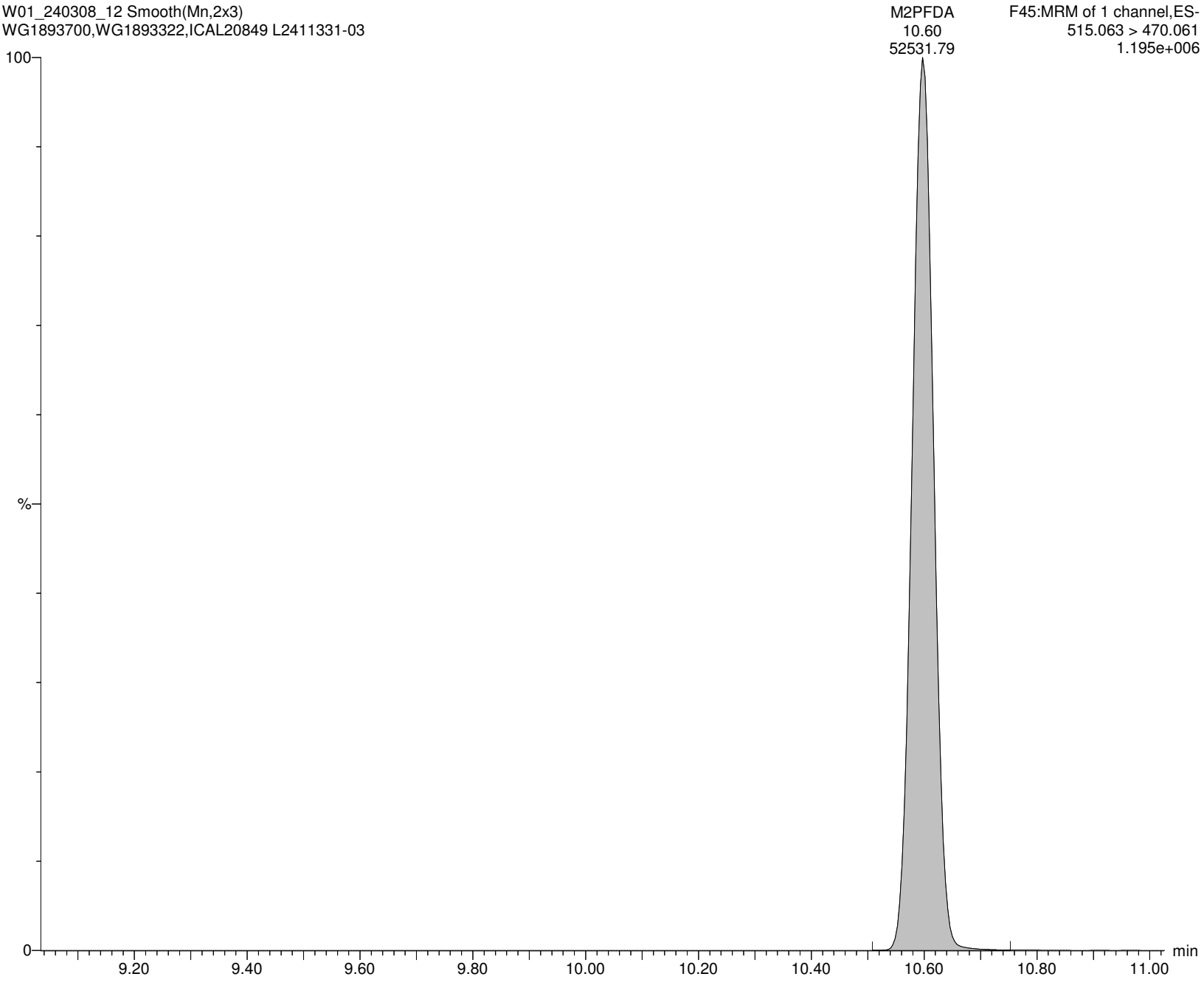

all concentration units in (ng/mL)

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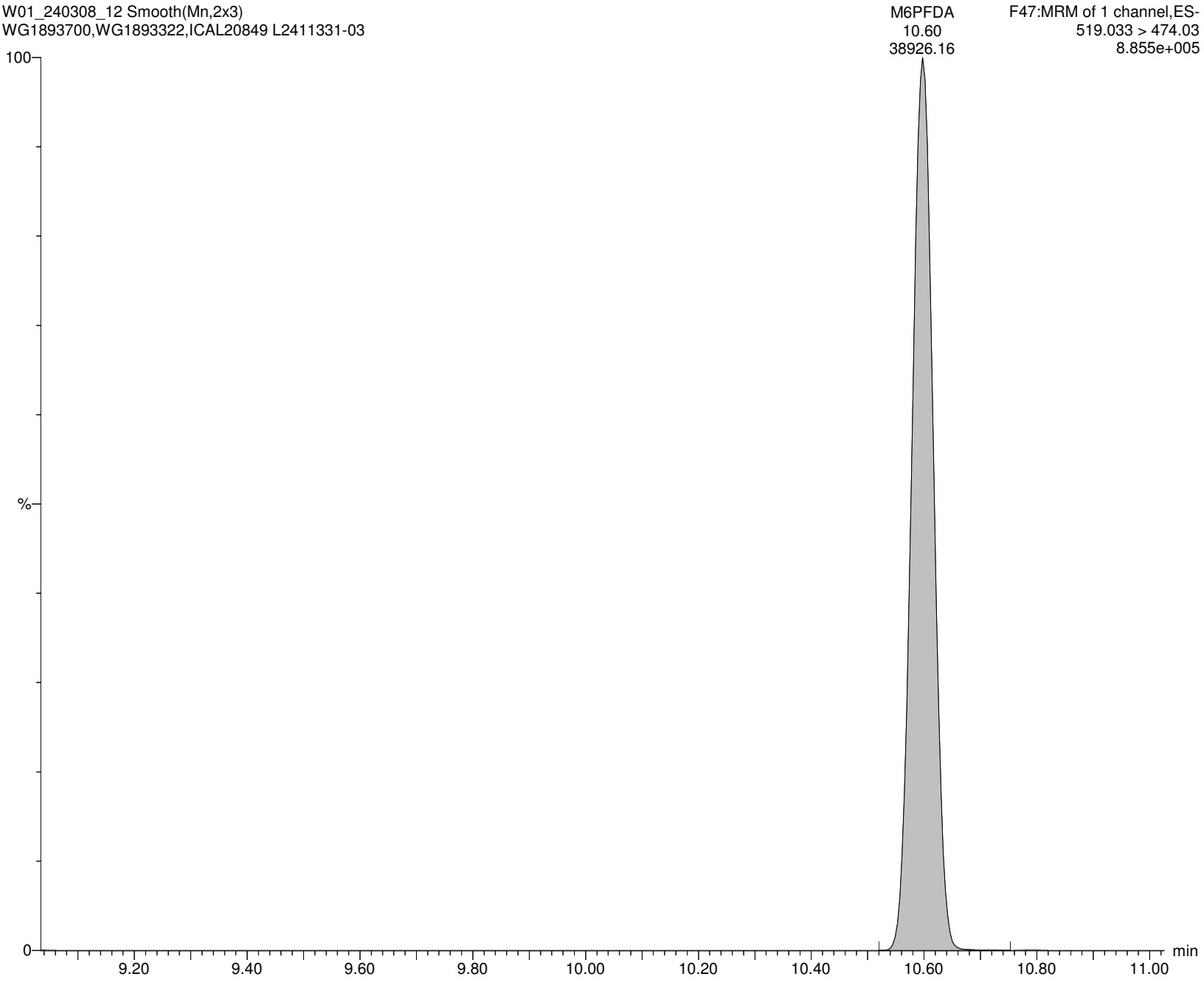

all concentration units in (ng/mL)

Alpha Analytical Inc.
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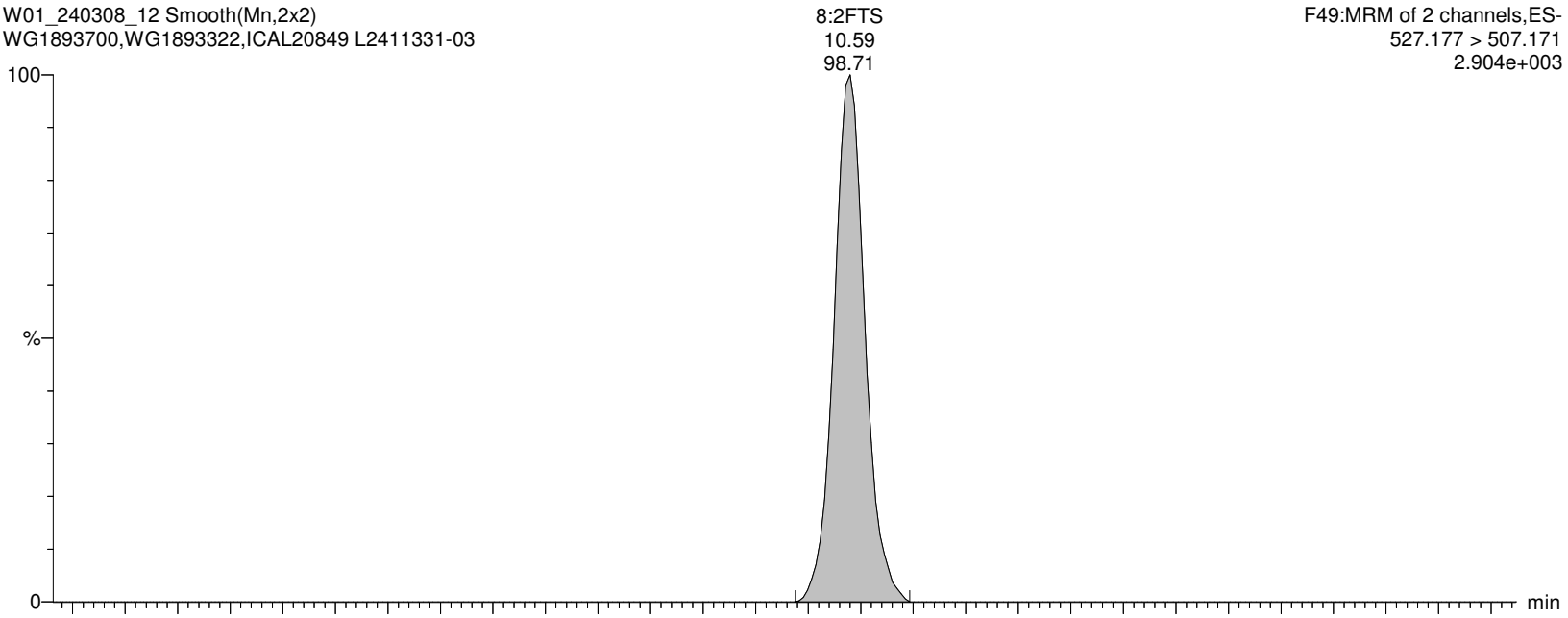
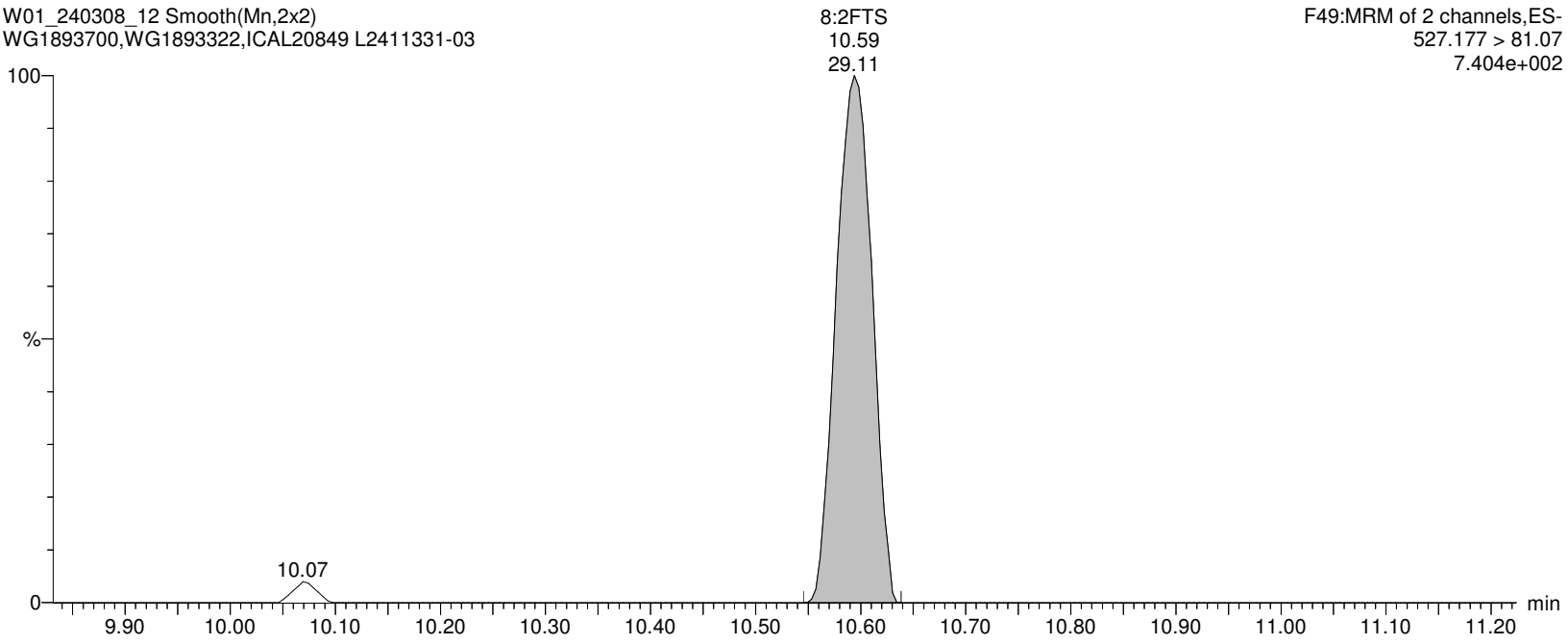
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Name: W01_240308_12
ID: L2411331-03
Date: 08-Mar-2024
Time: 08:05:51
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User: LCMS01:AC
Vial: 1:B,7
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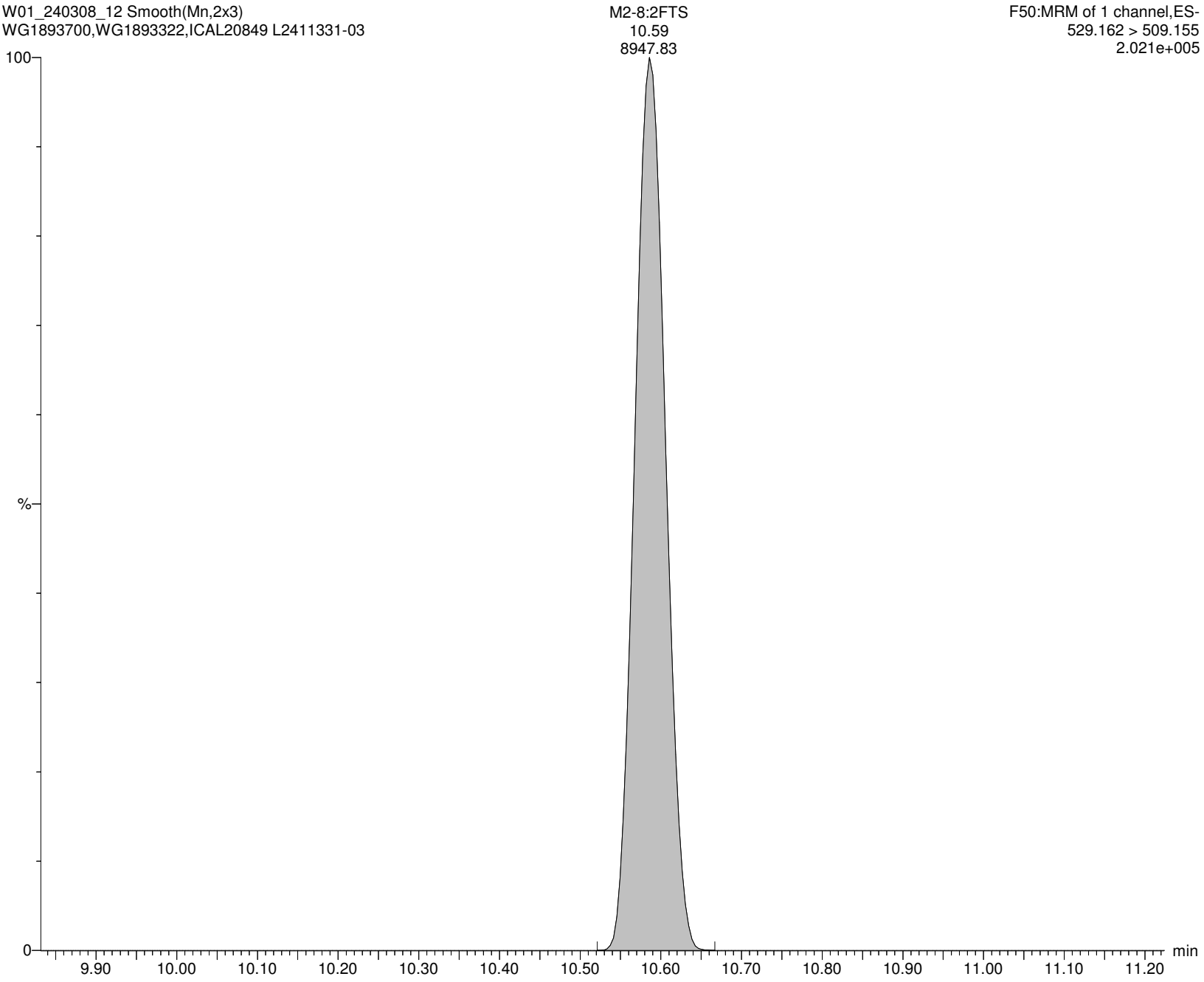

all concentration units in (ng/mL)

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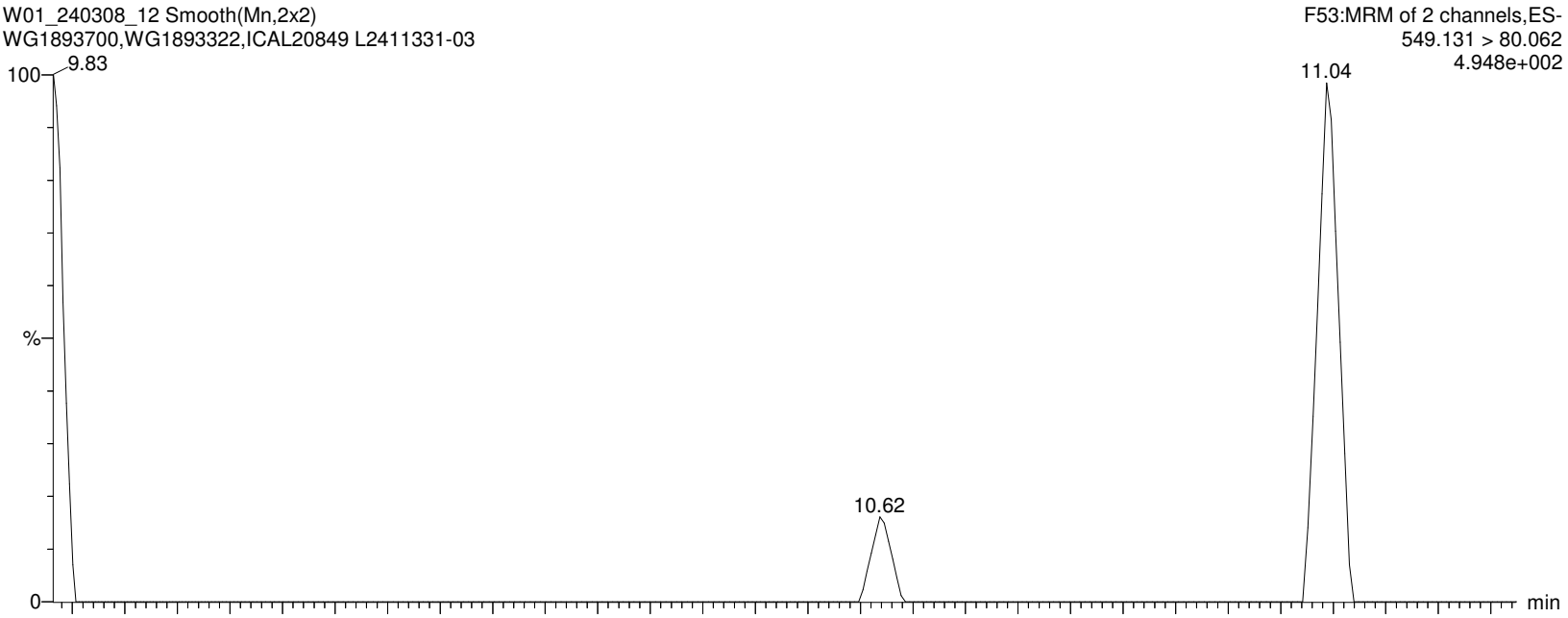

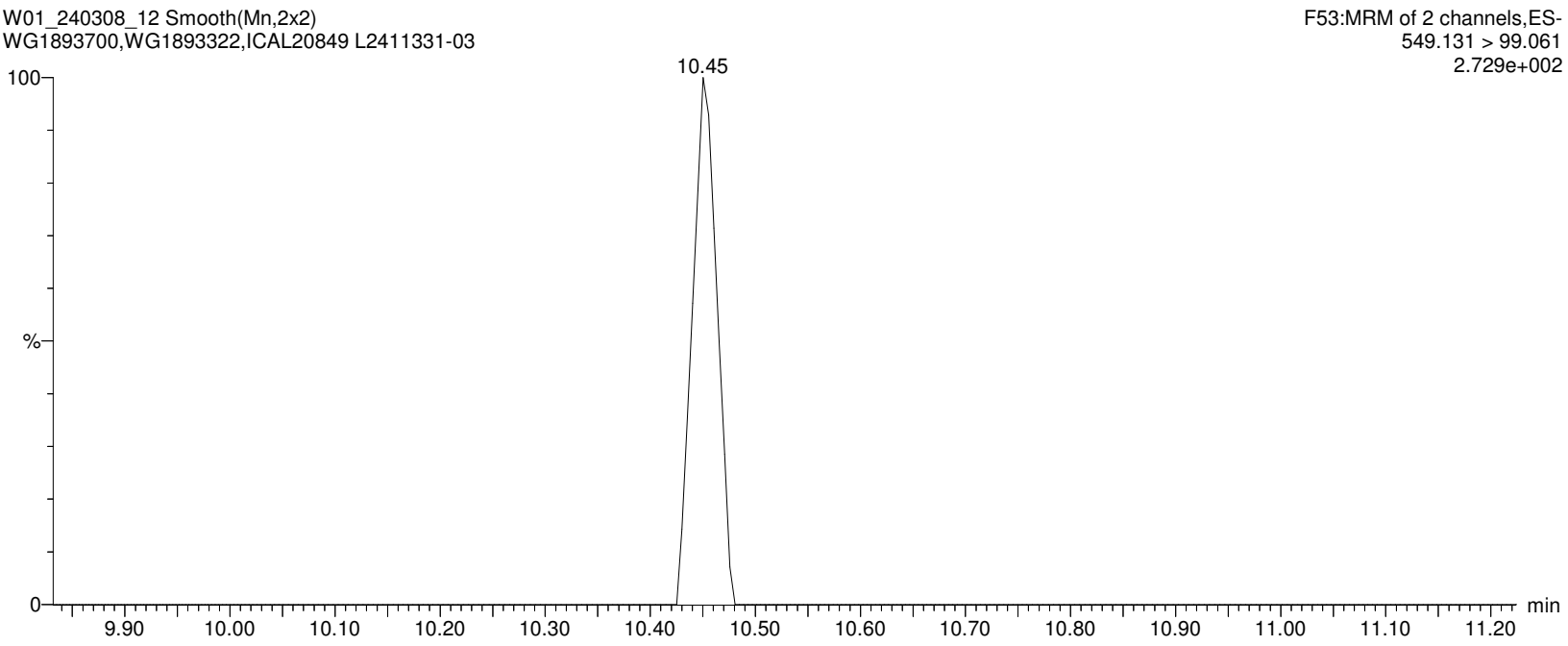

all concentration units in (ng/mL)

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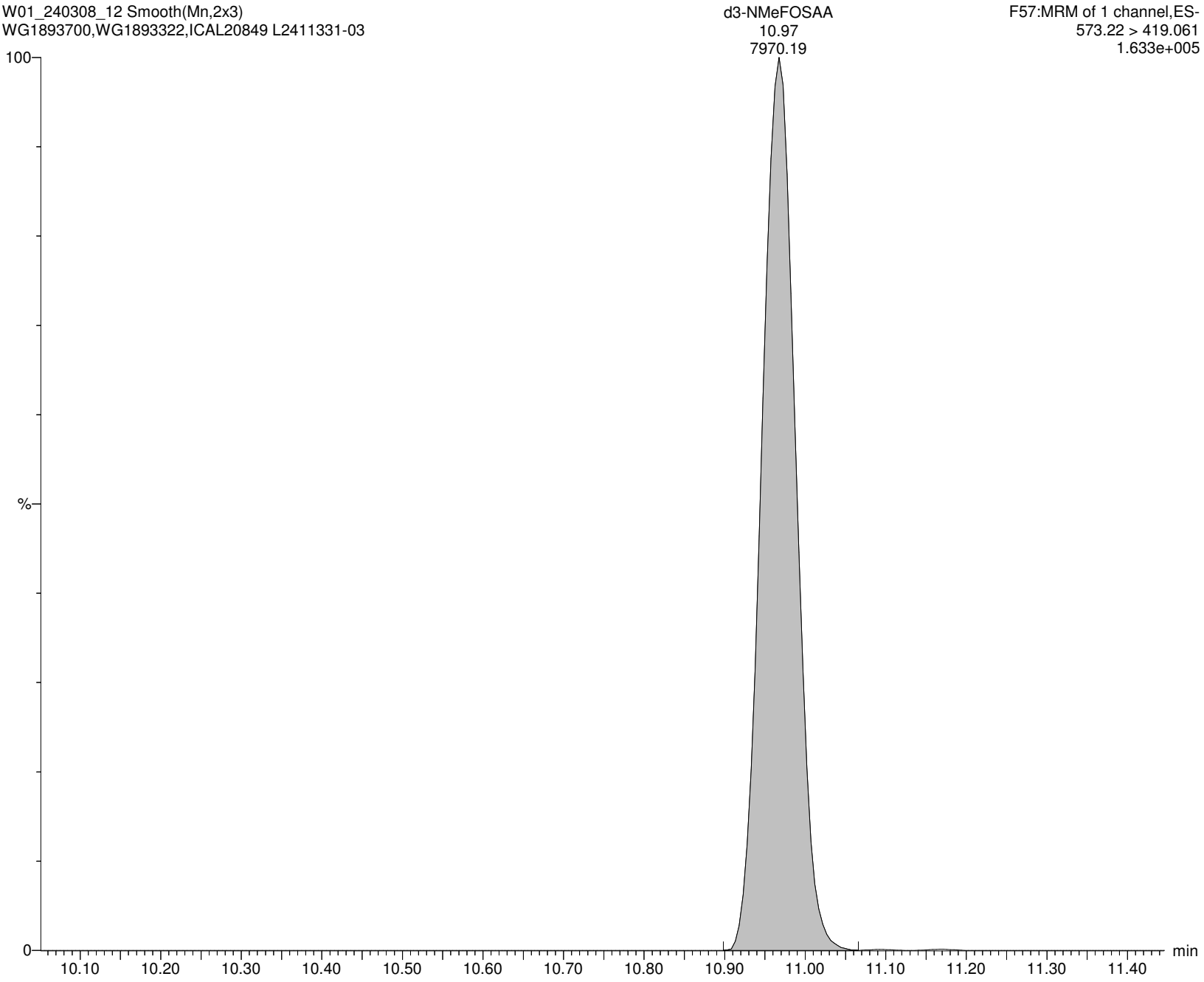
d3-NMeFOSAA



all concentration units in (ng/mL)

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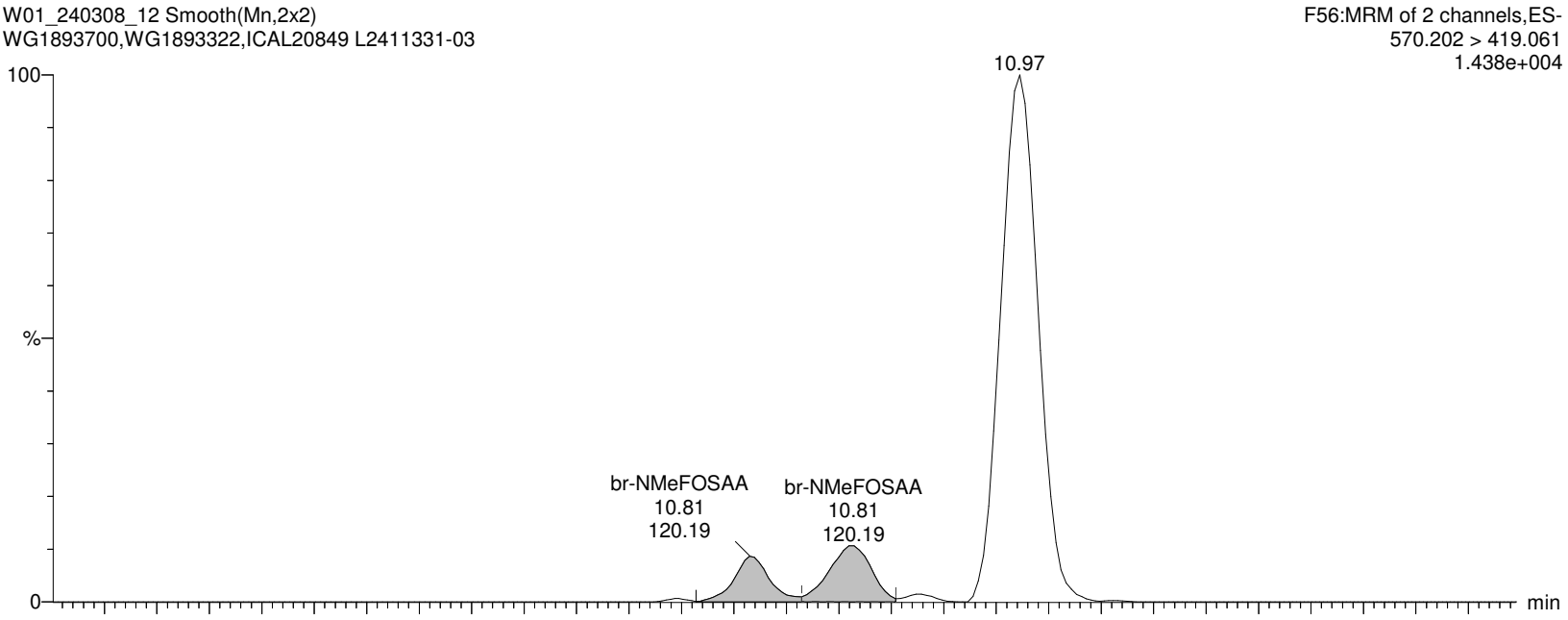

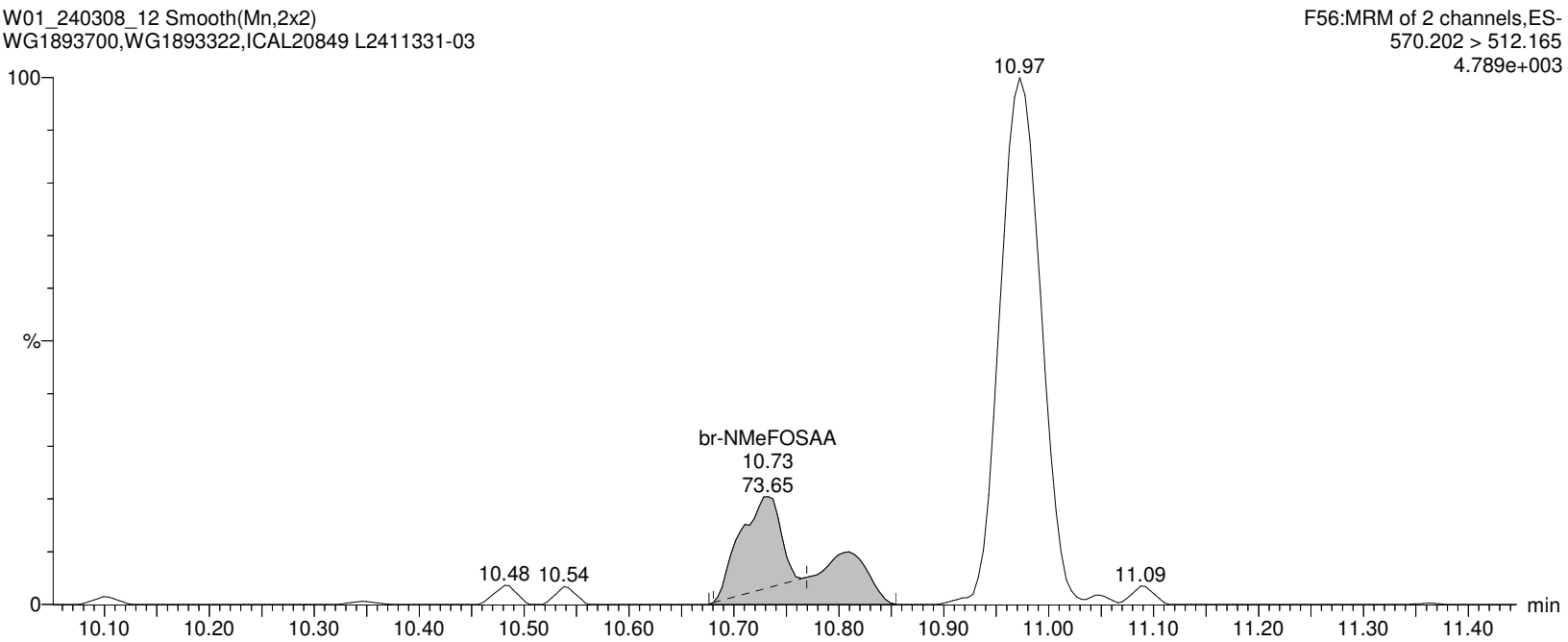

all concentration units in (ng/mL)

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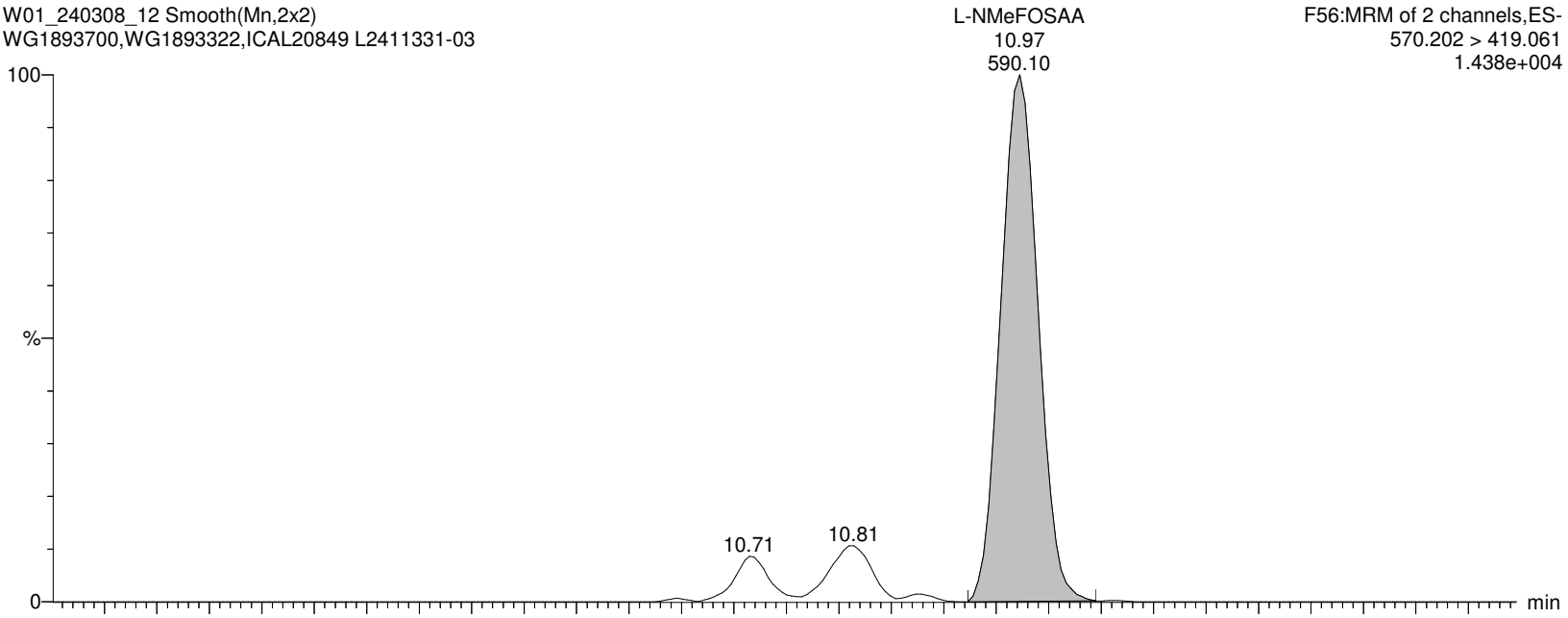
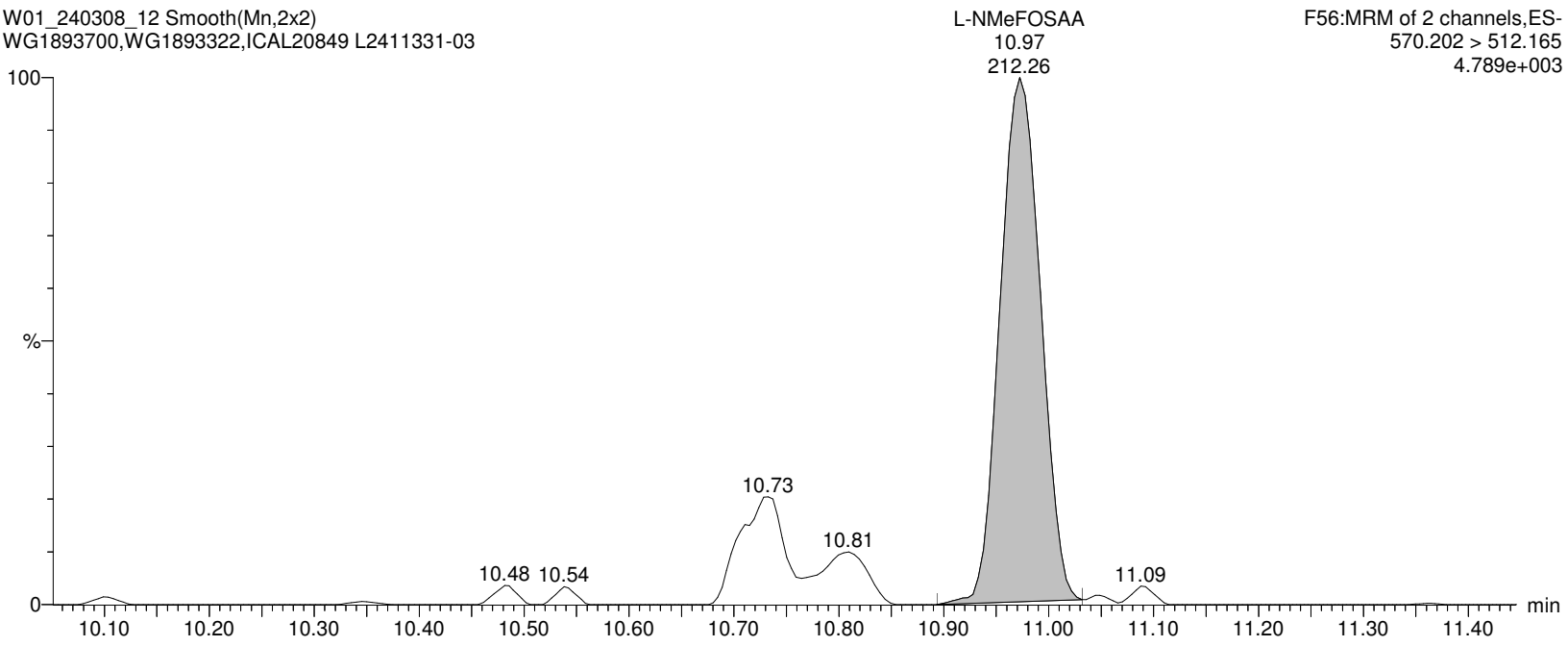
L-NMeFOSAA





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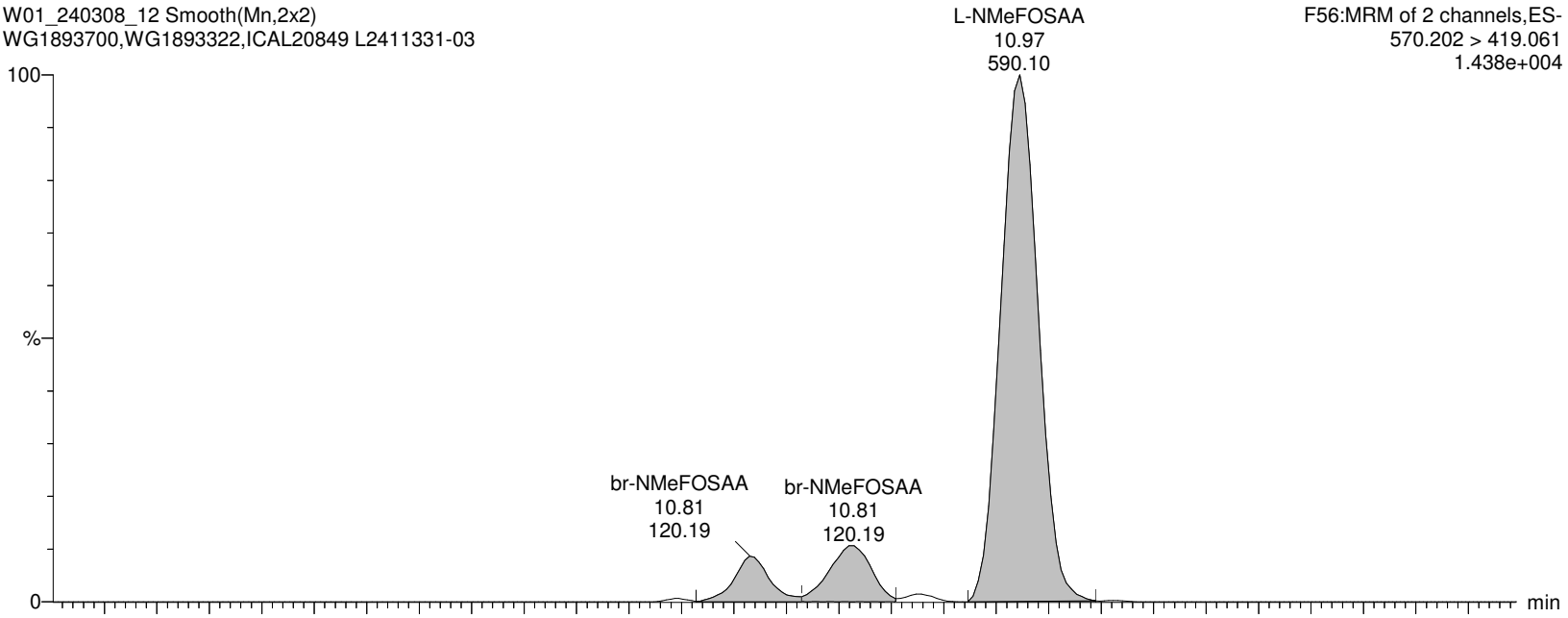

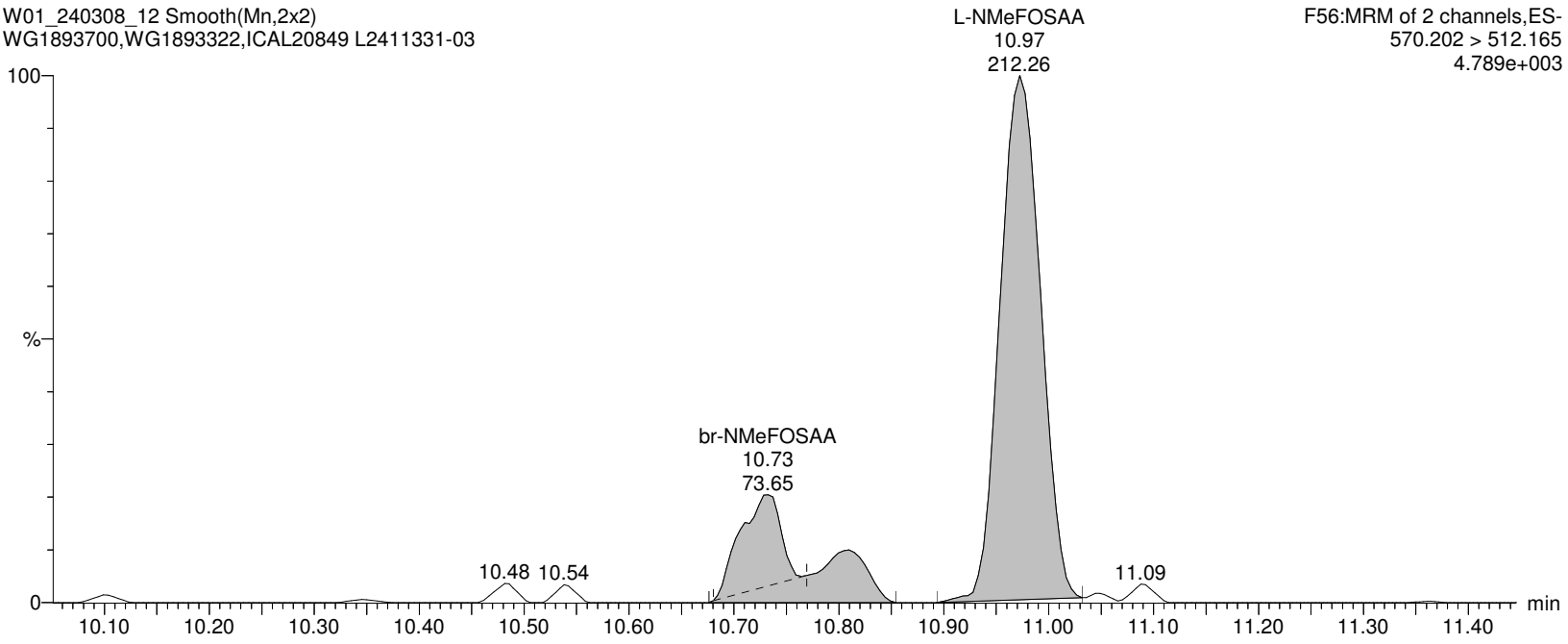

all concentration units in (ng/mL)

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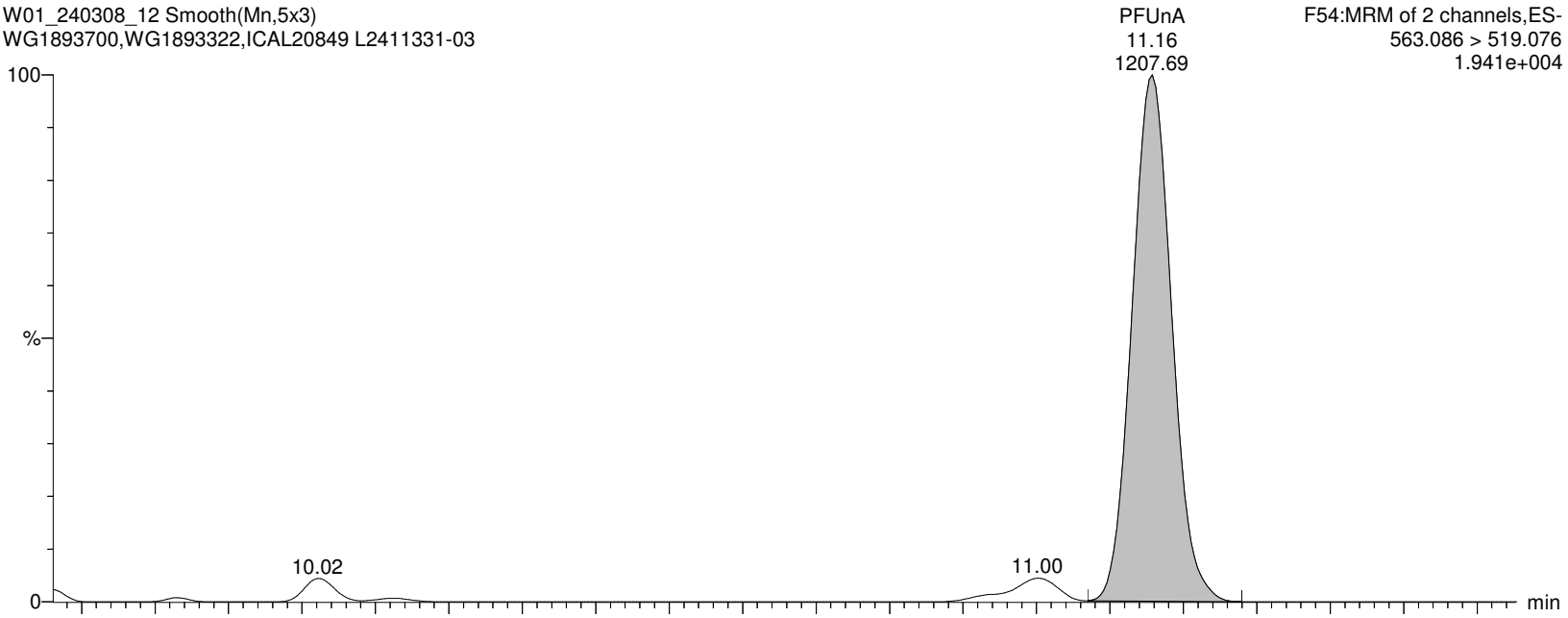

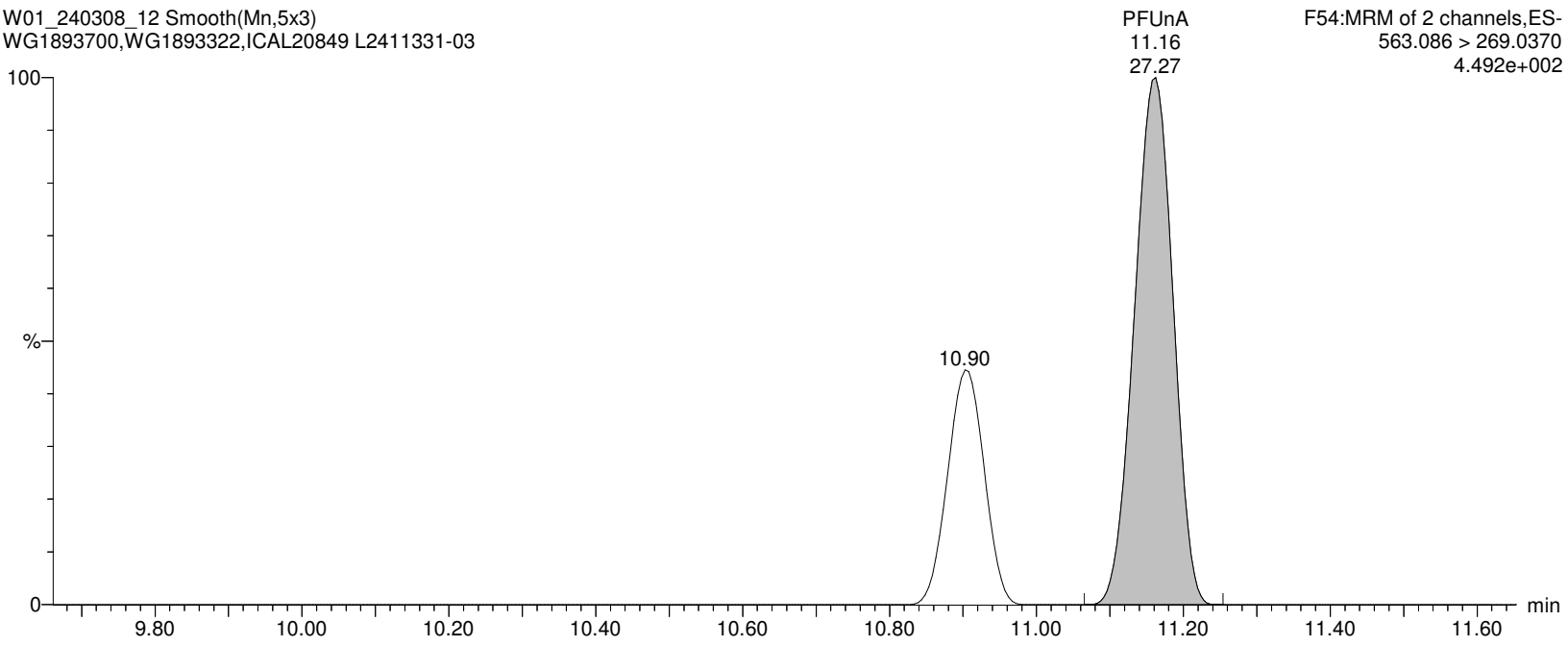

all concentration units in (ng/mL)

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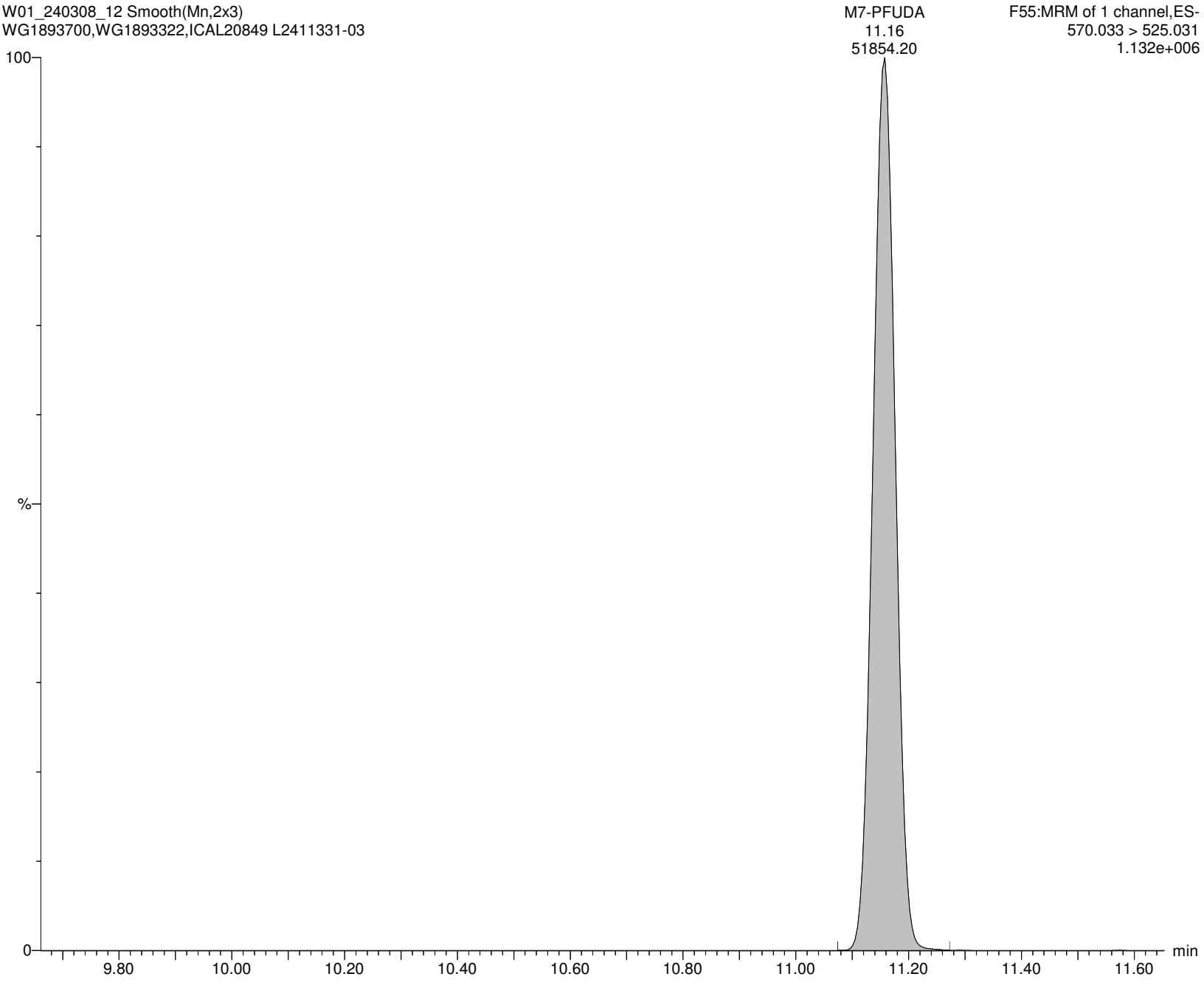

all concentration units in (ng/mL)

Alpha Analytical Inc.
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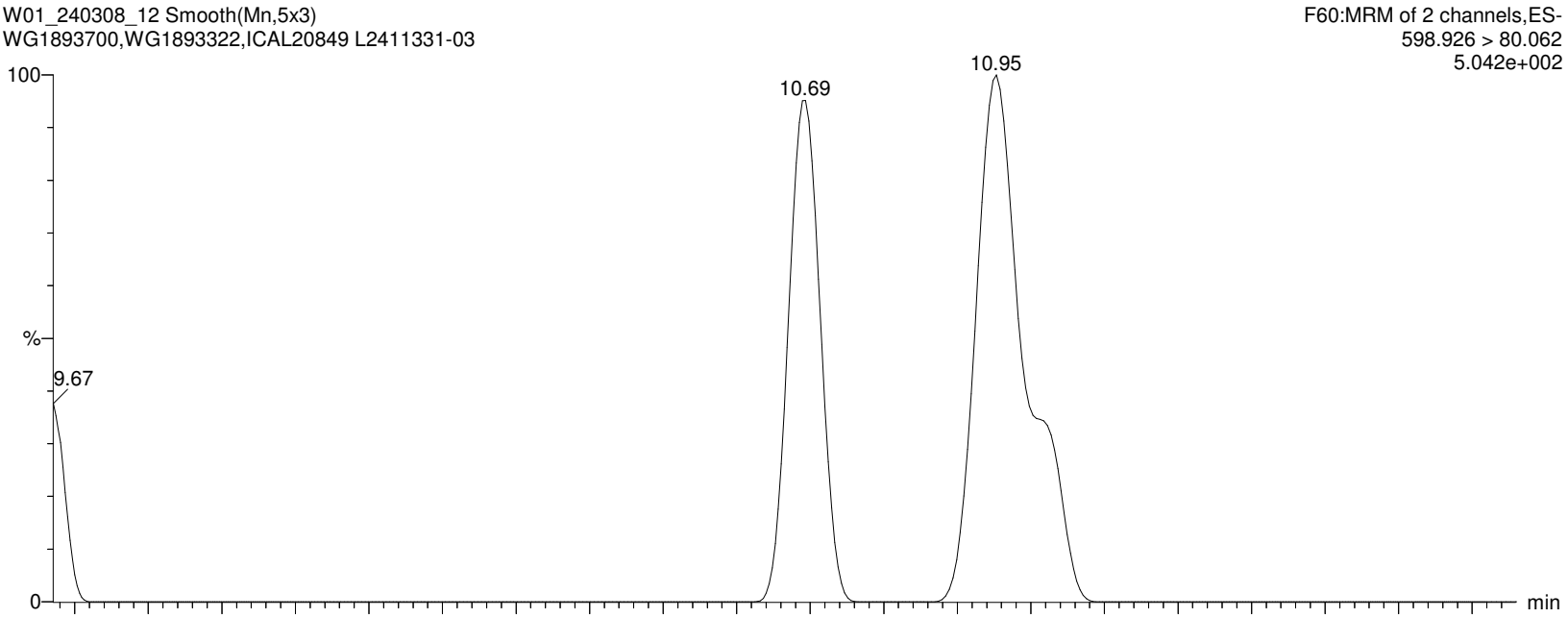

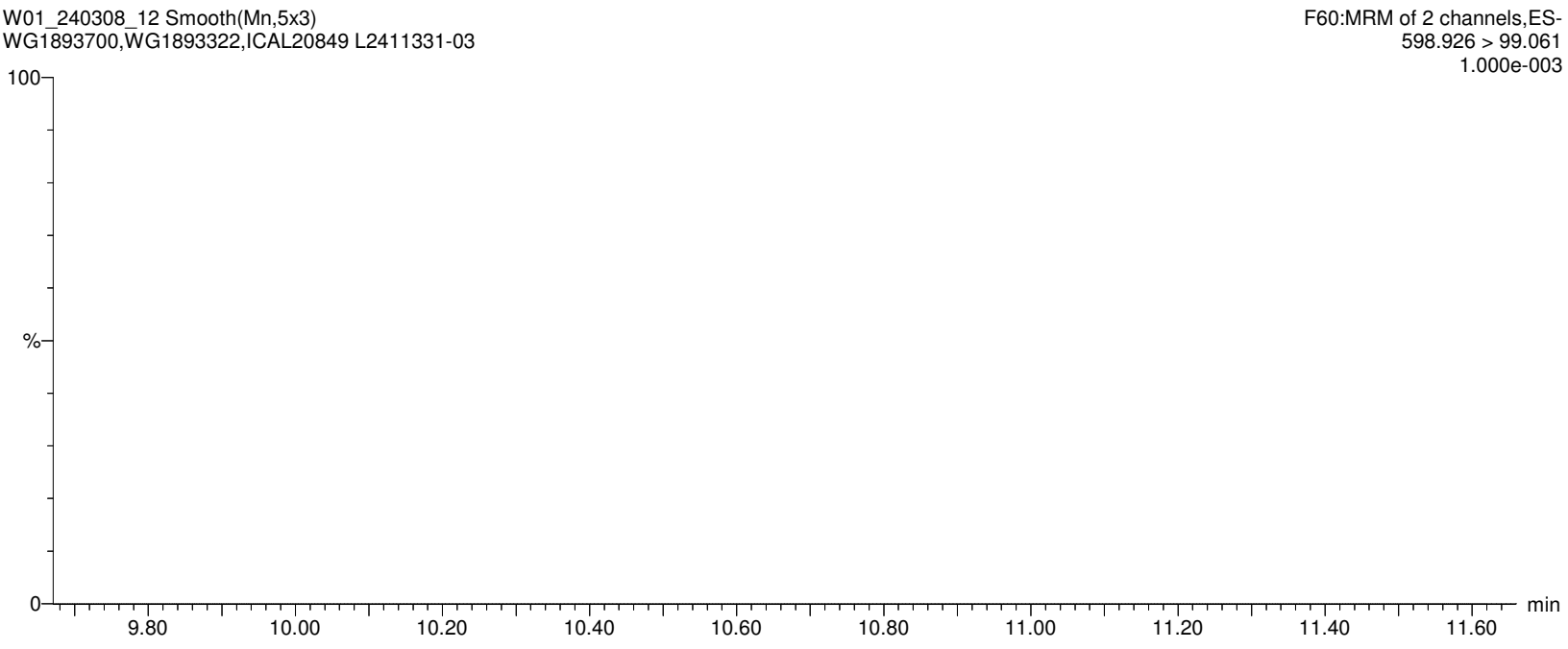

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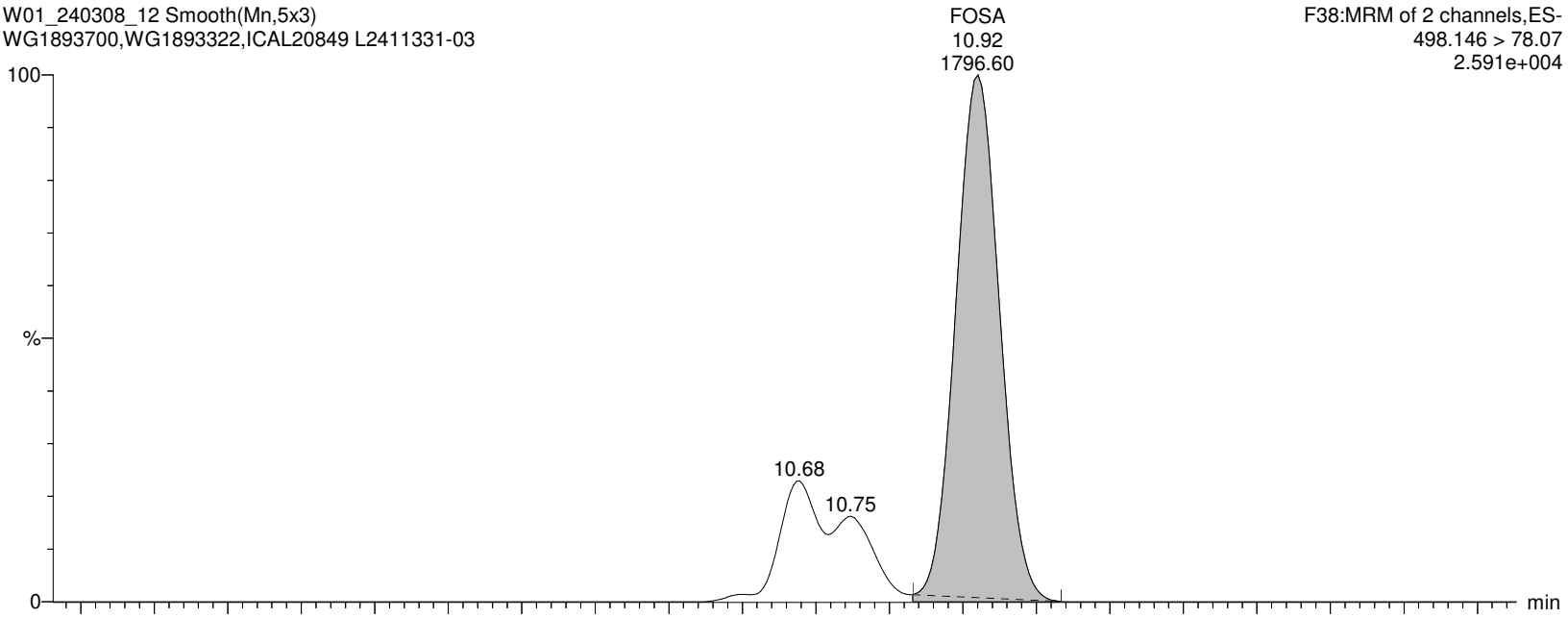

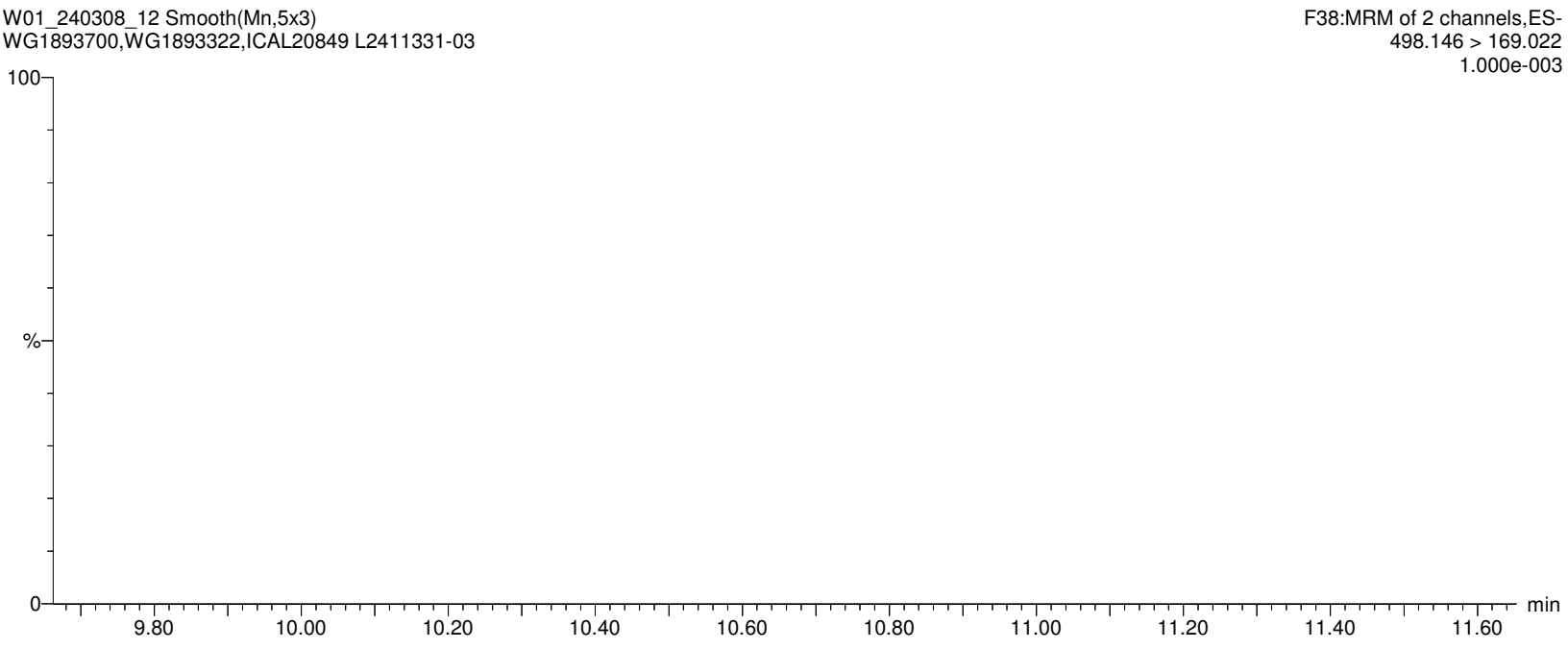

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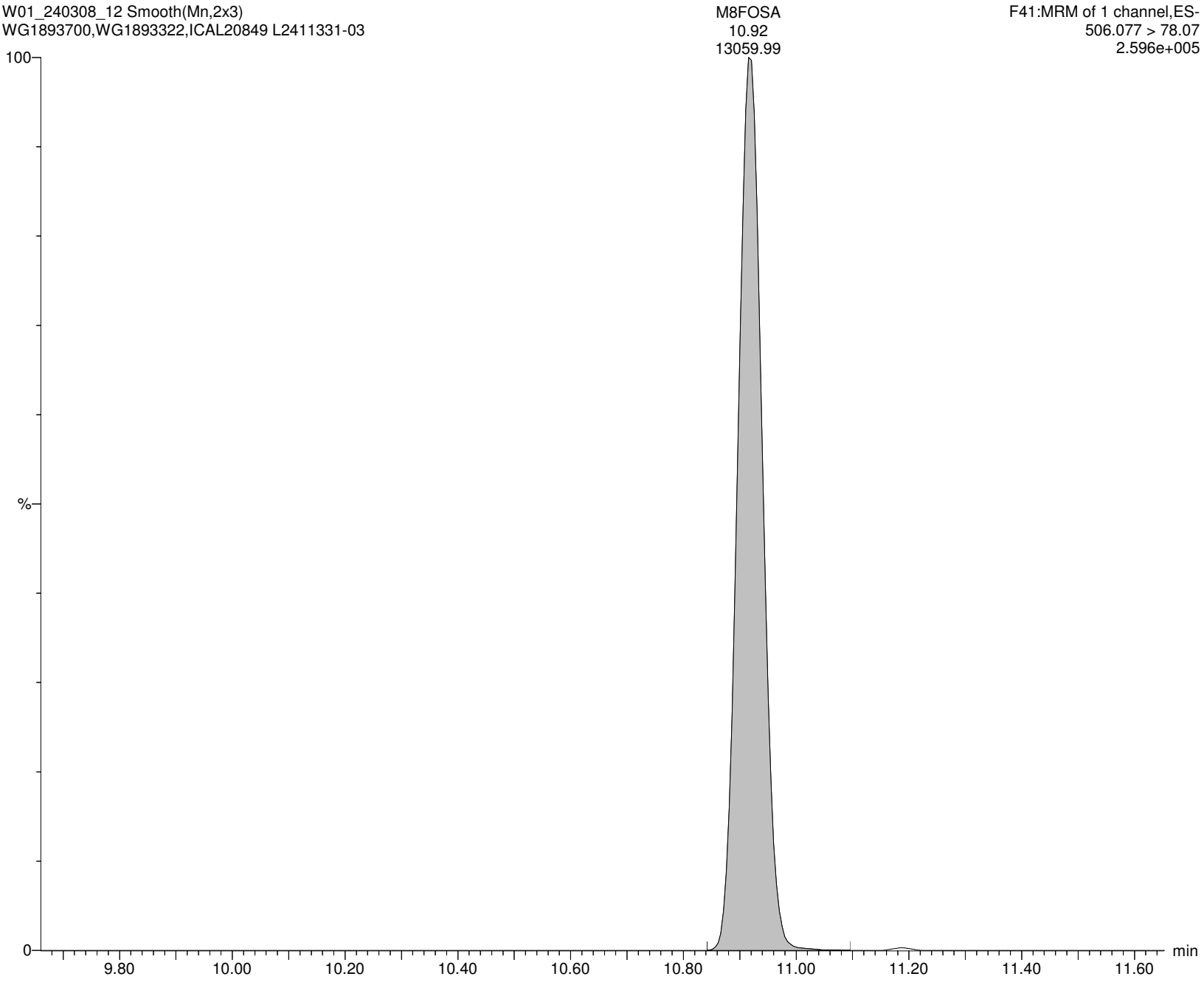
M8FOSA



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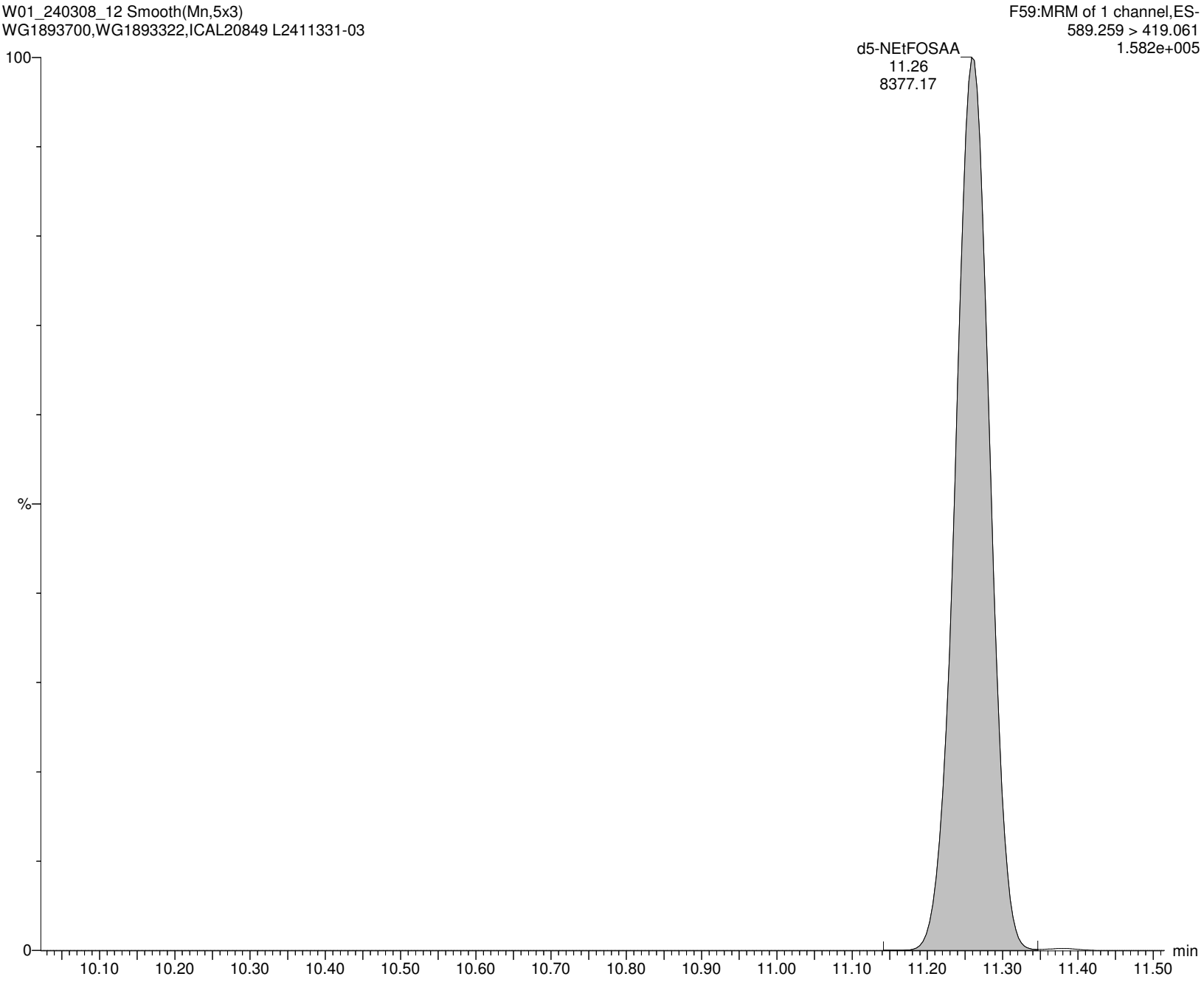
d5-NEtFOSAA



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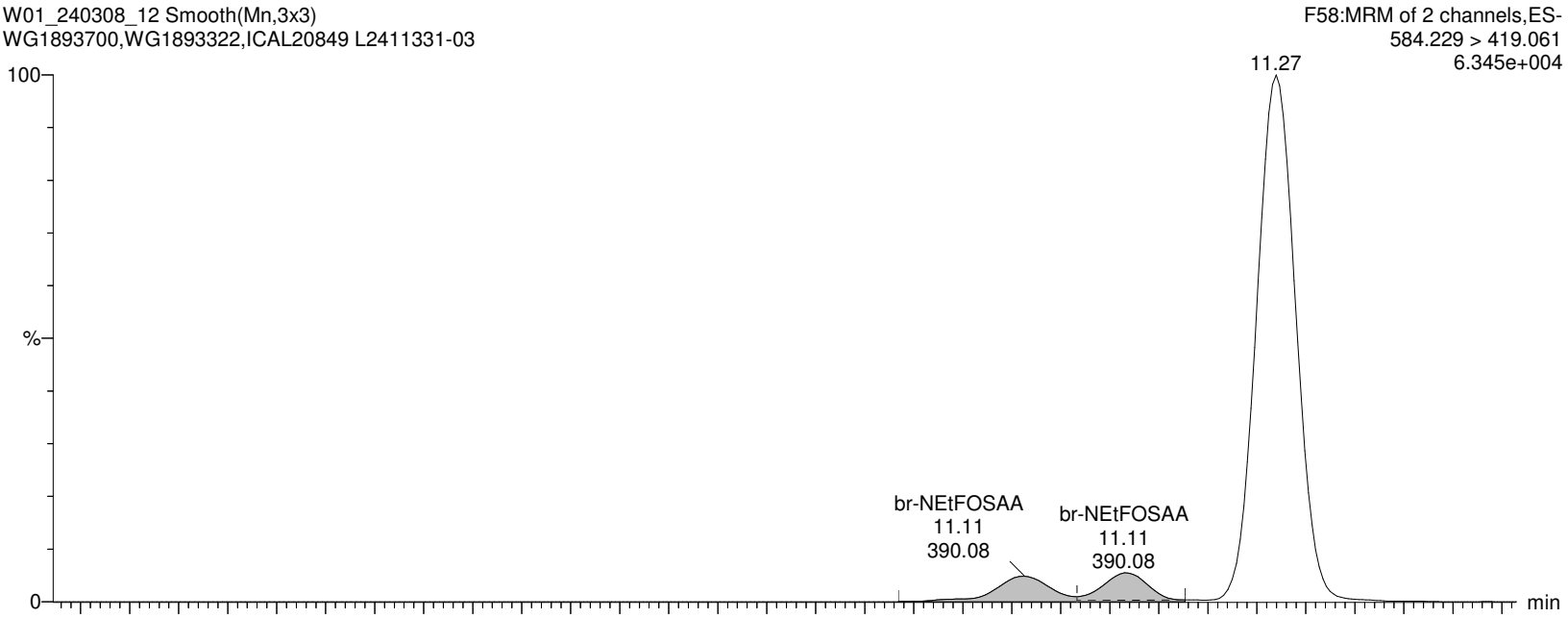

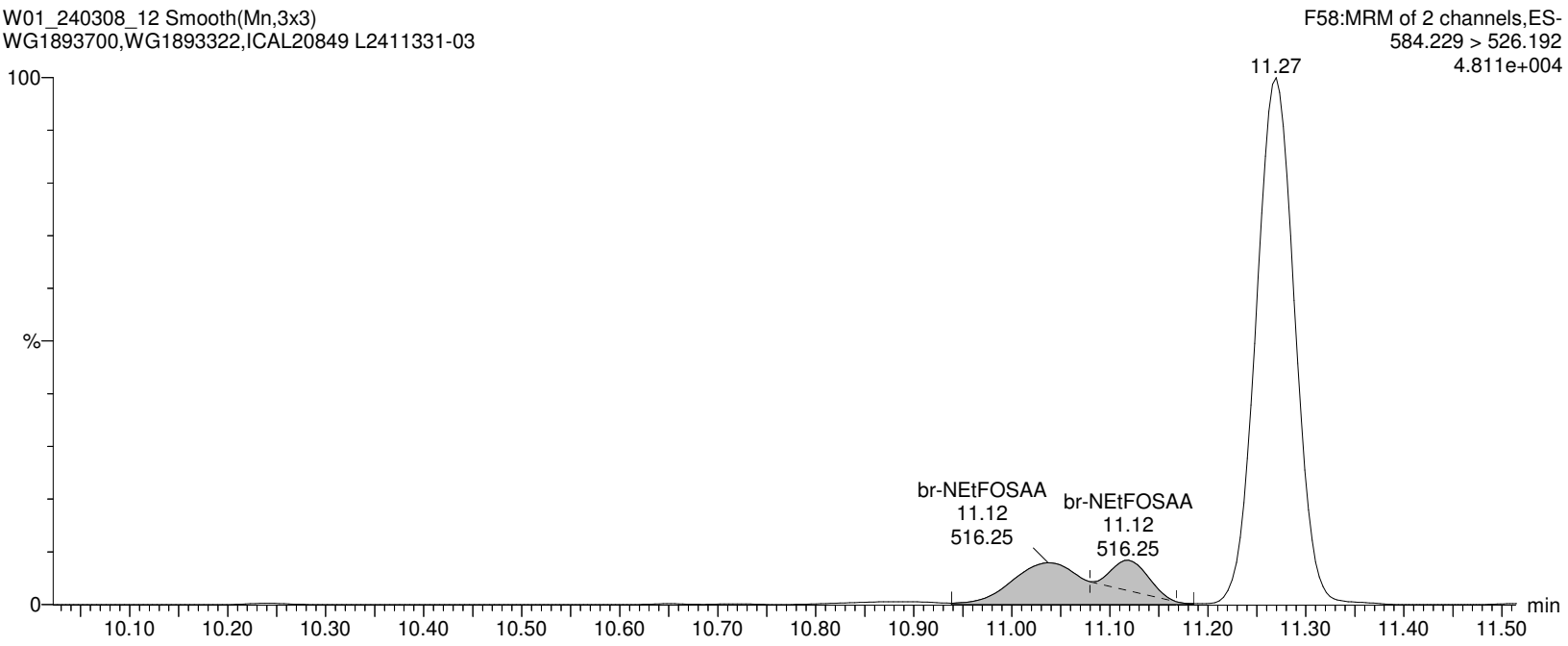

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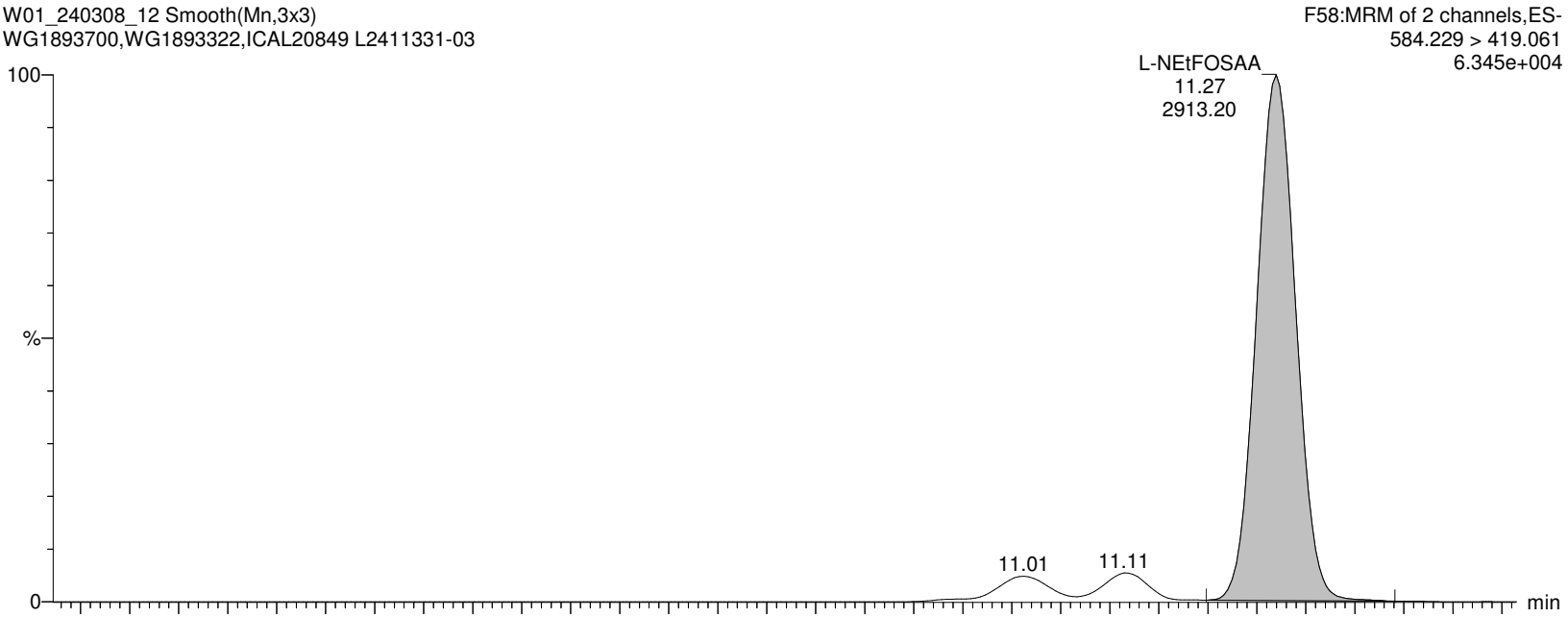
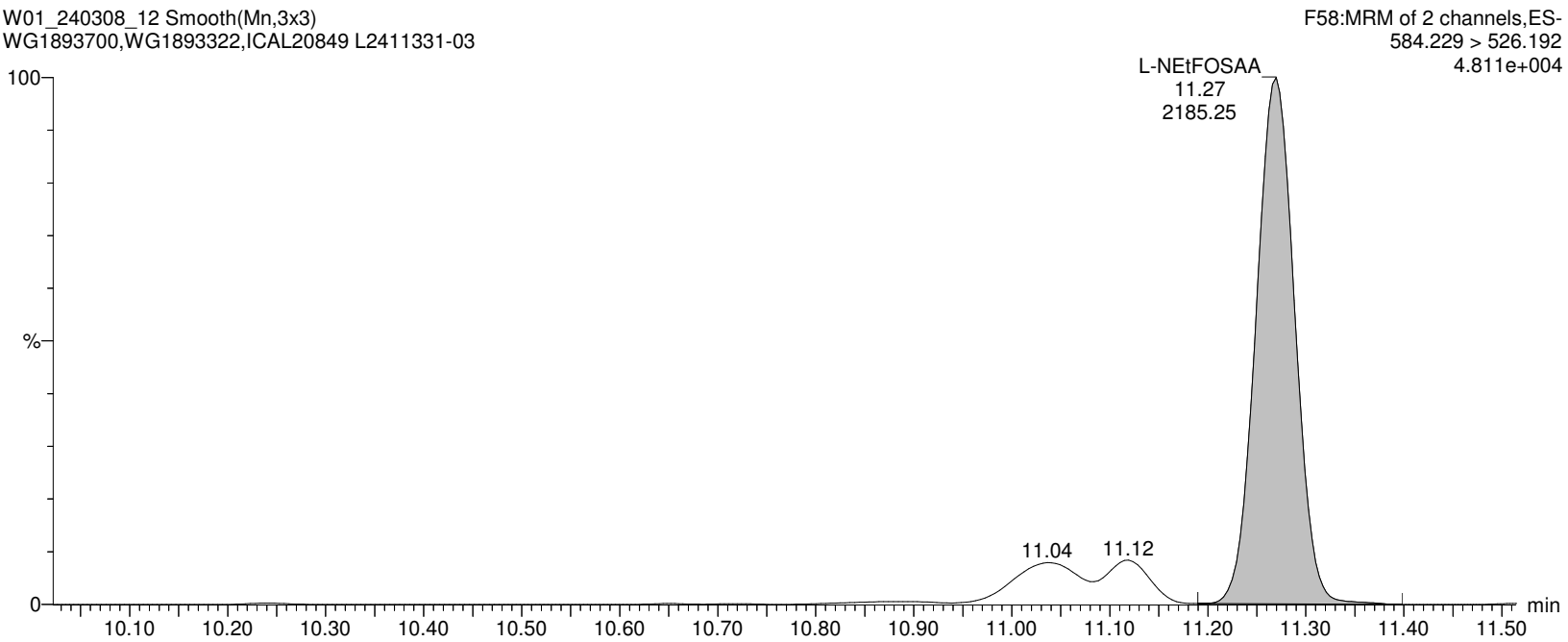
L-NEtFOSAA





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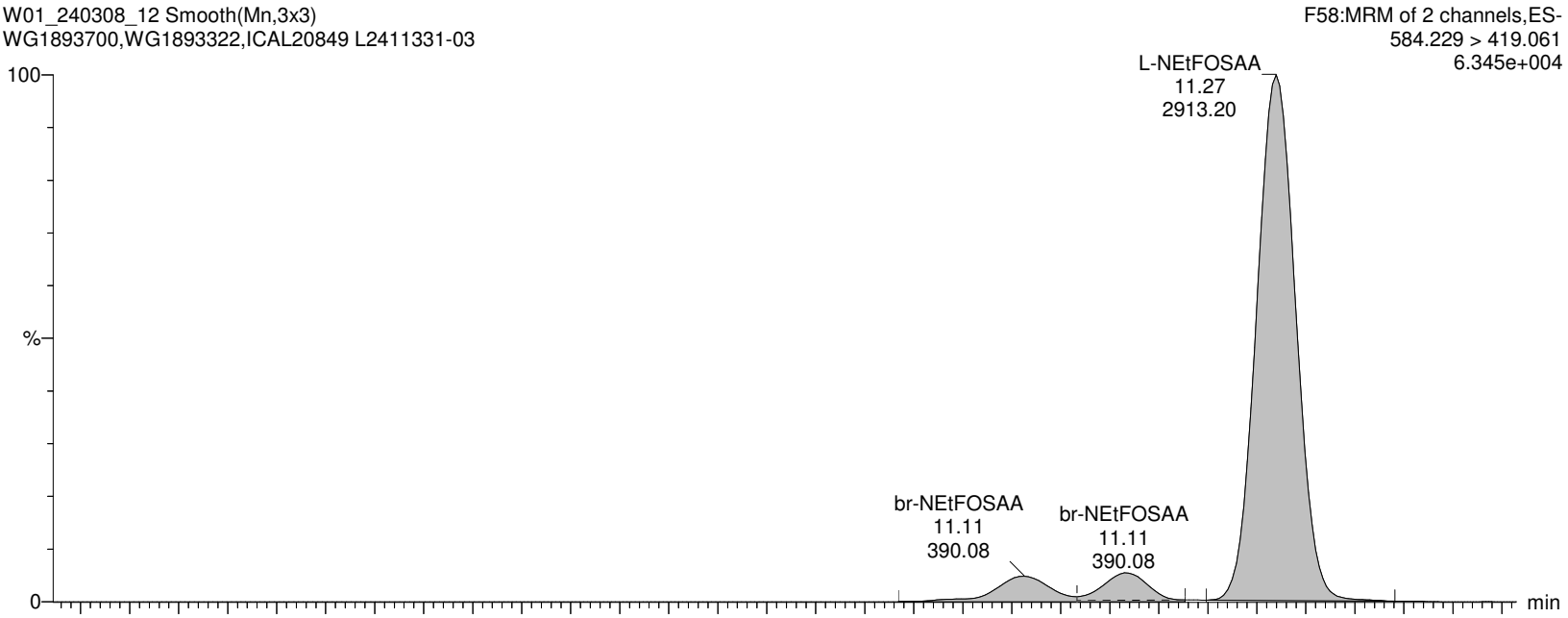

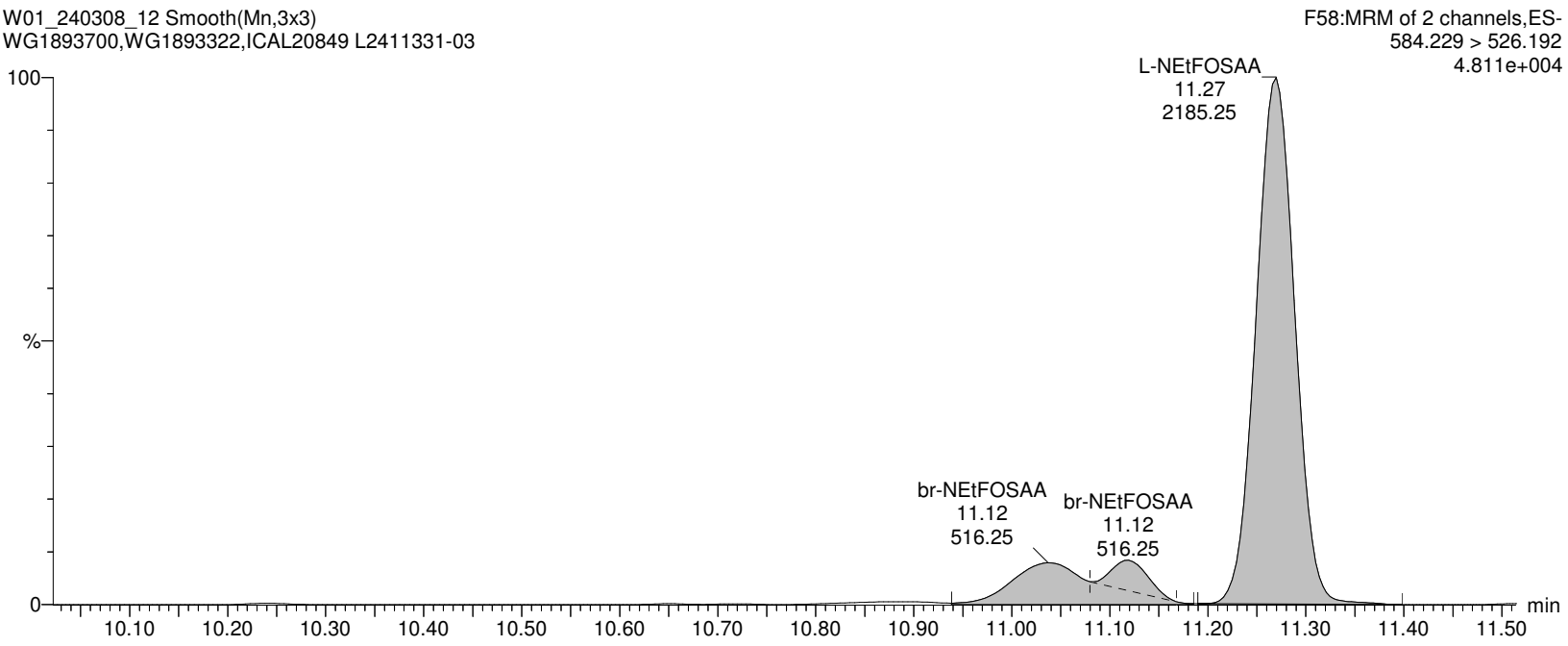

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:43 Eastern Standard Time

Name: W01_240308_12
ID: L2411331-03
Date: 08-Mar-2024
Time: 08:05:51
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,7
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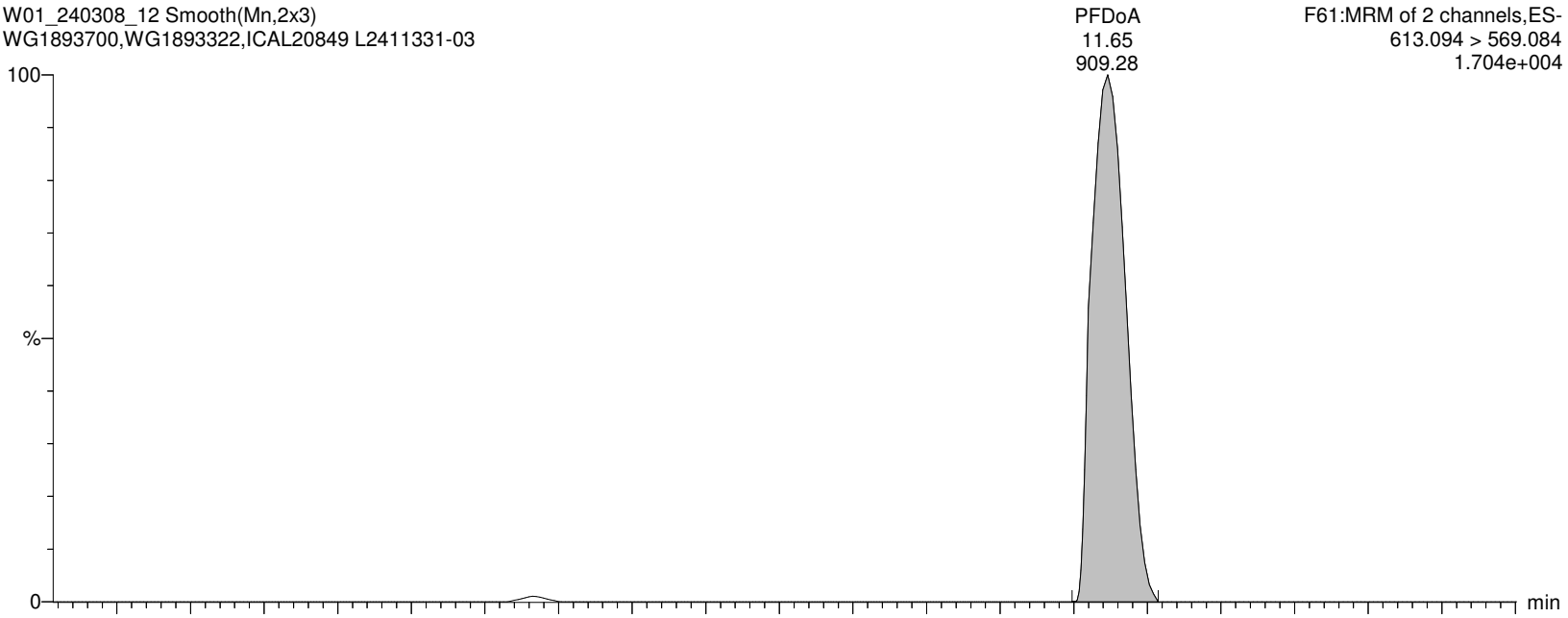

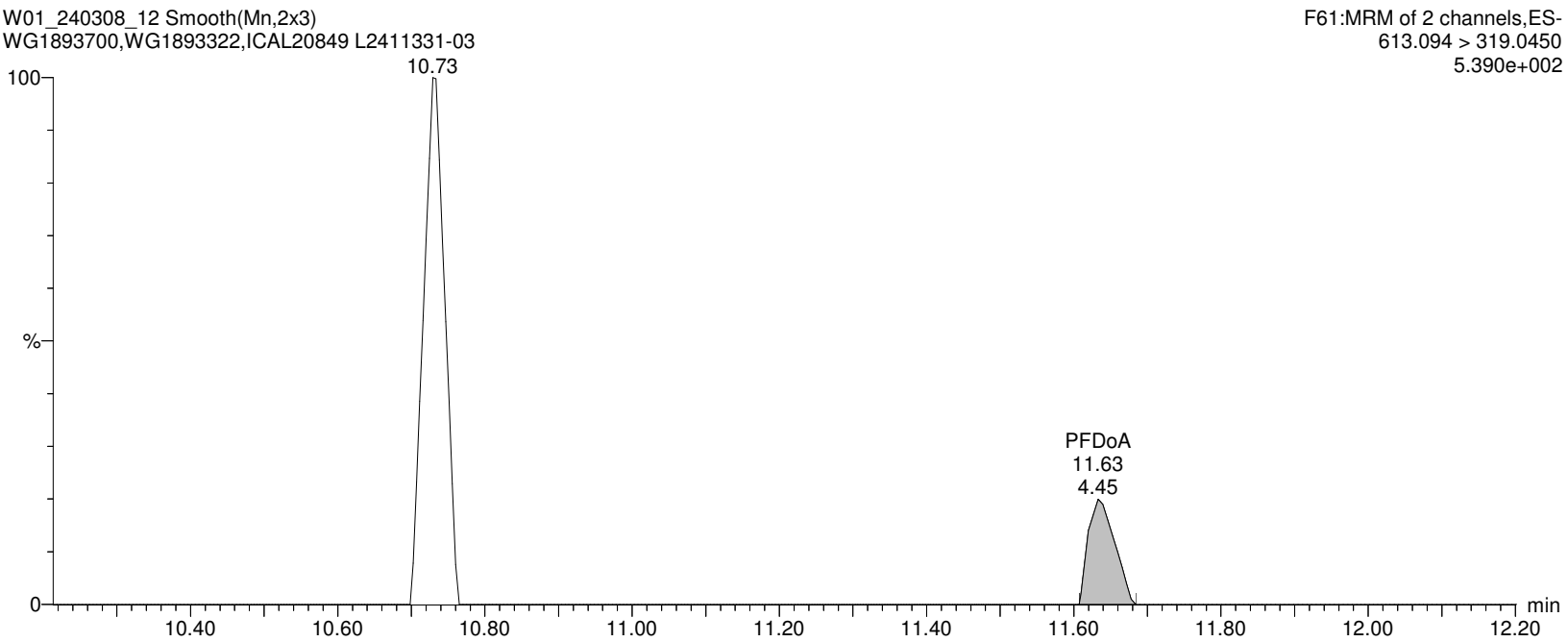

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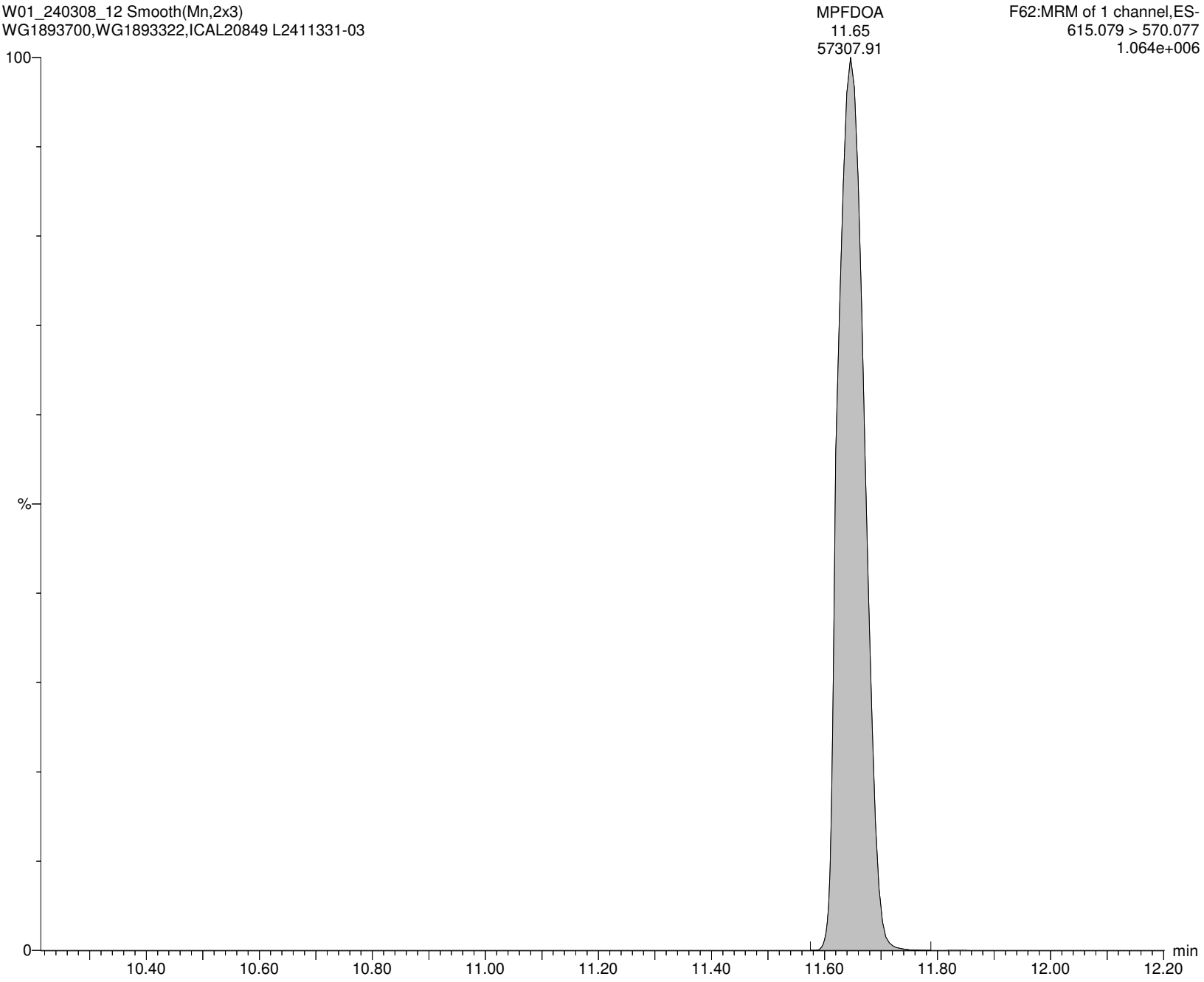

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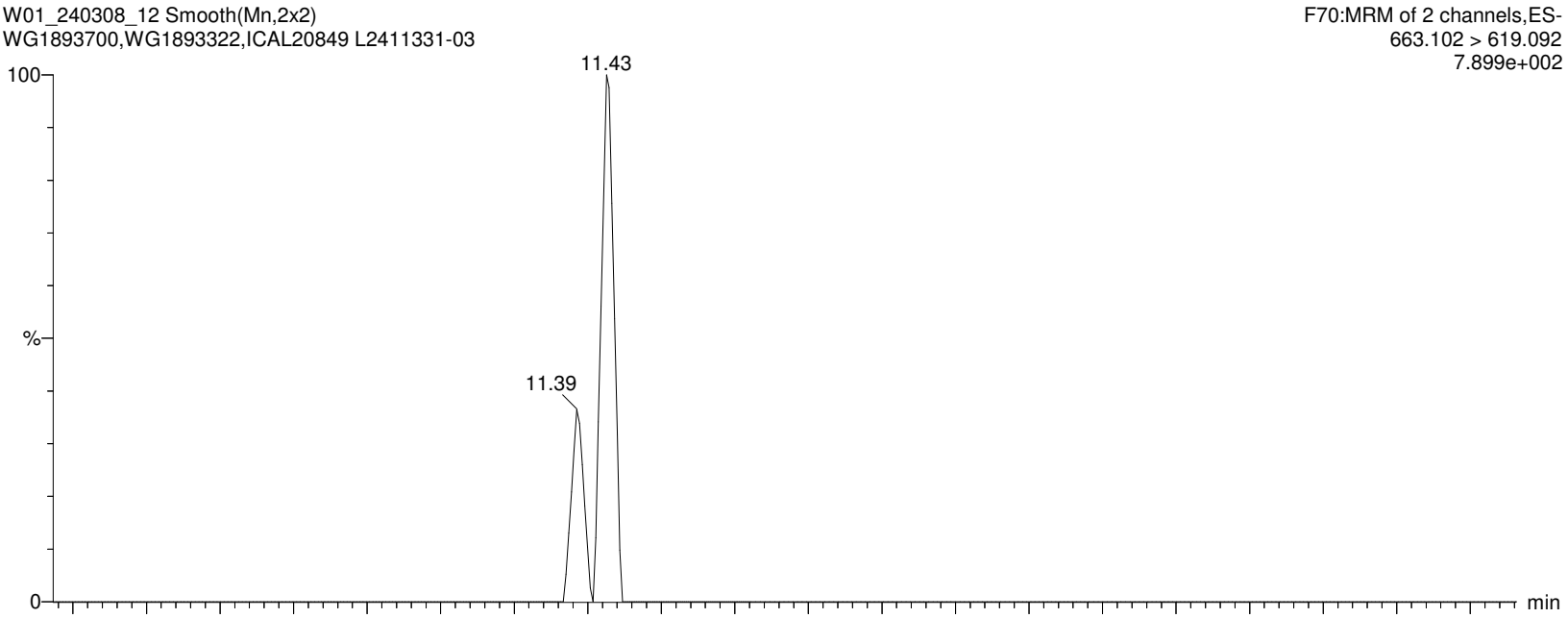

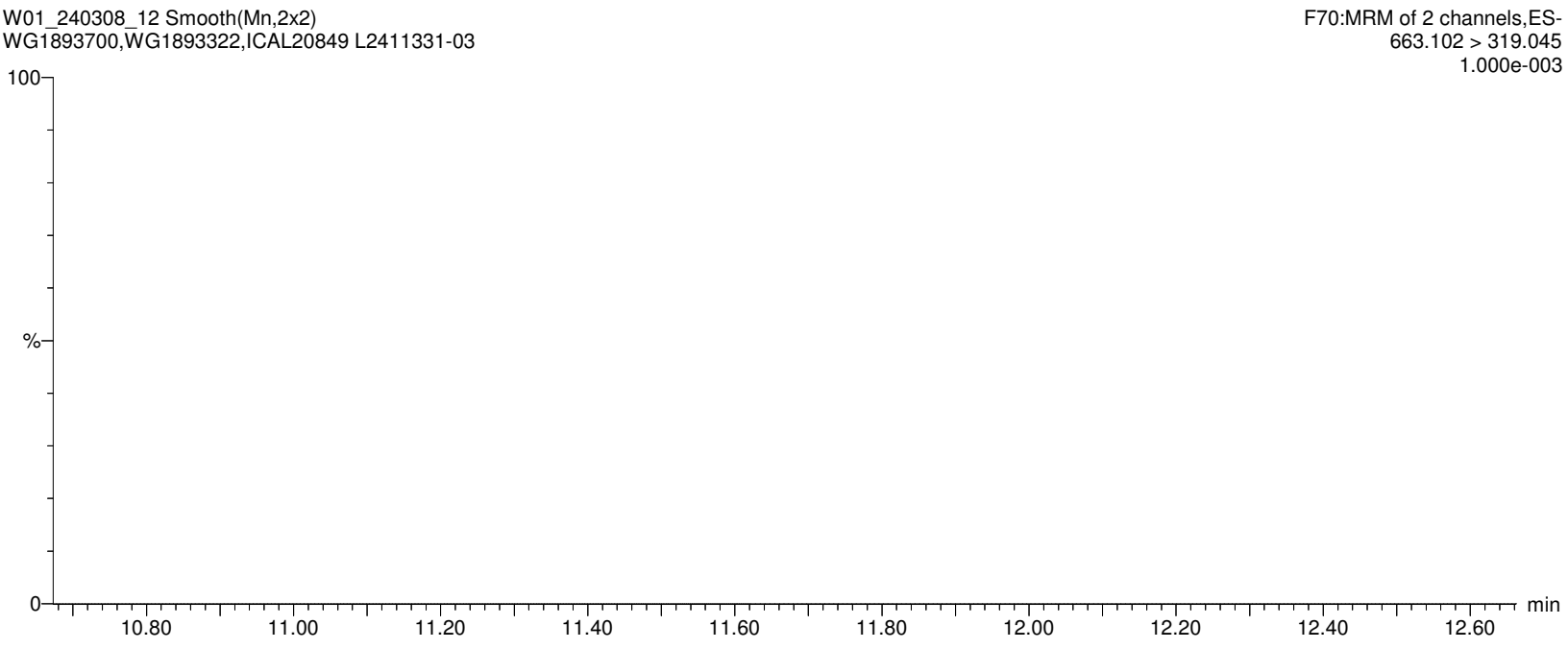

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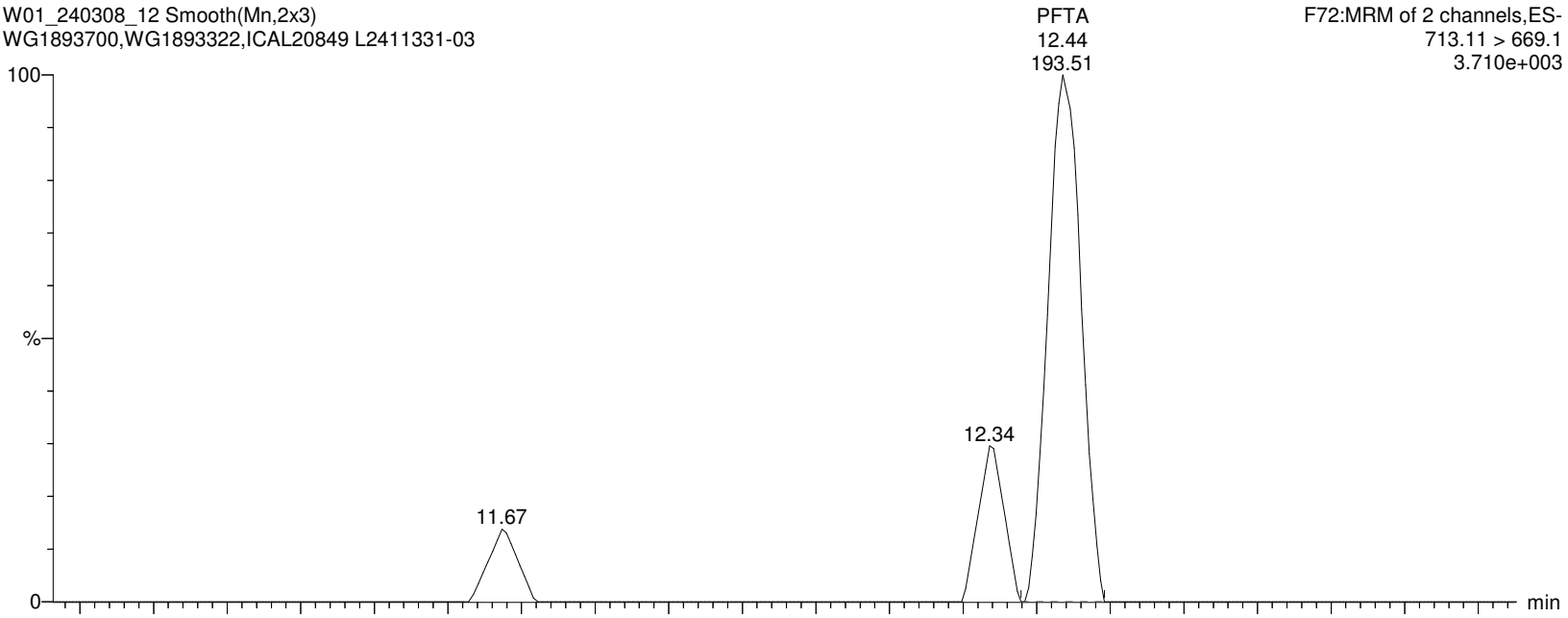

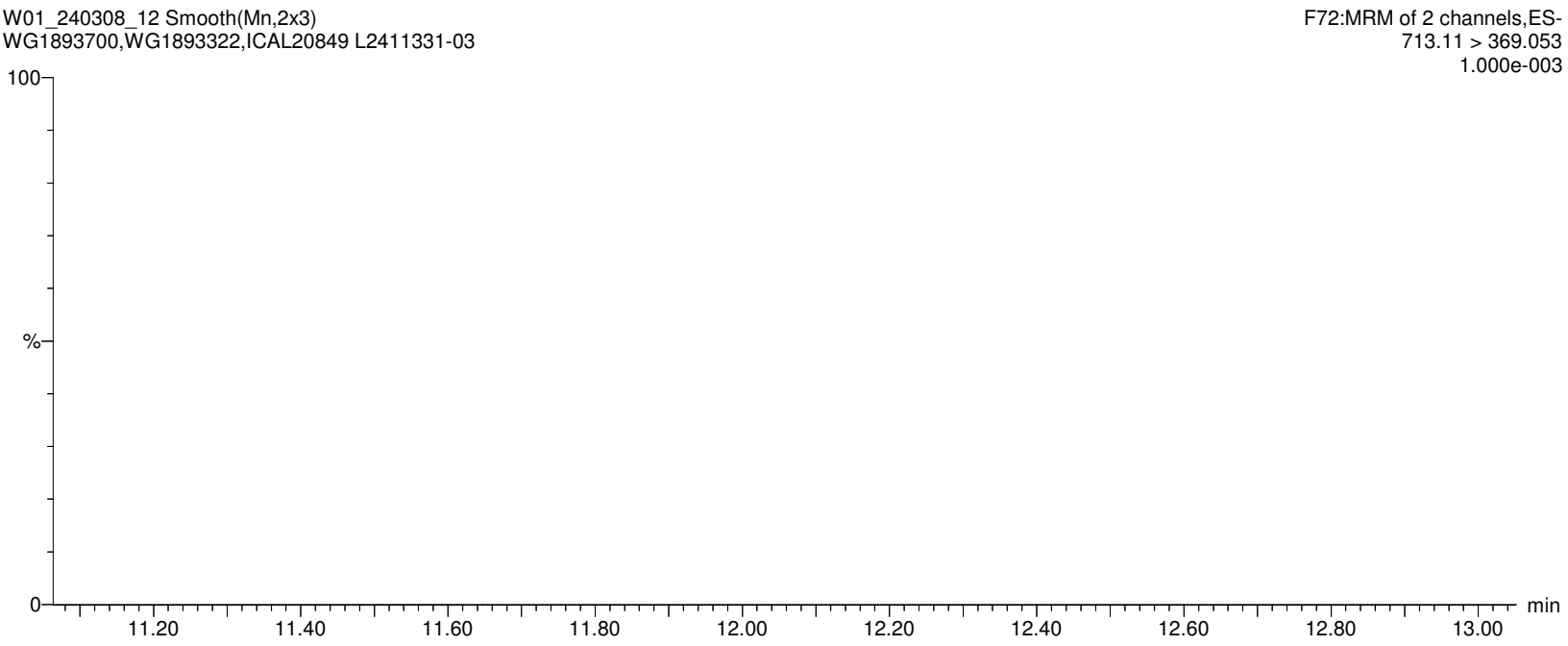

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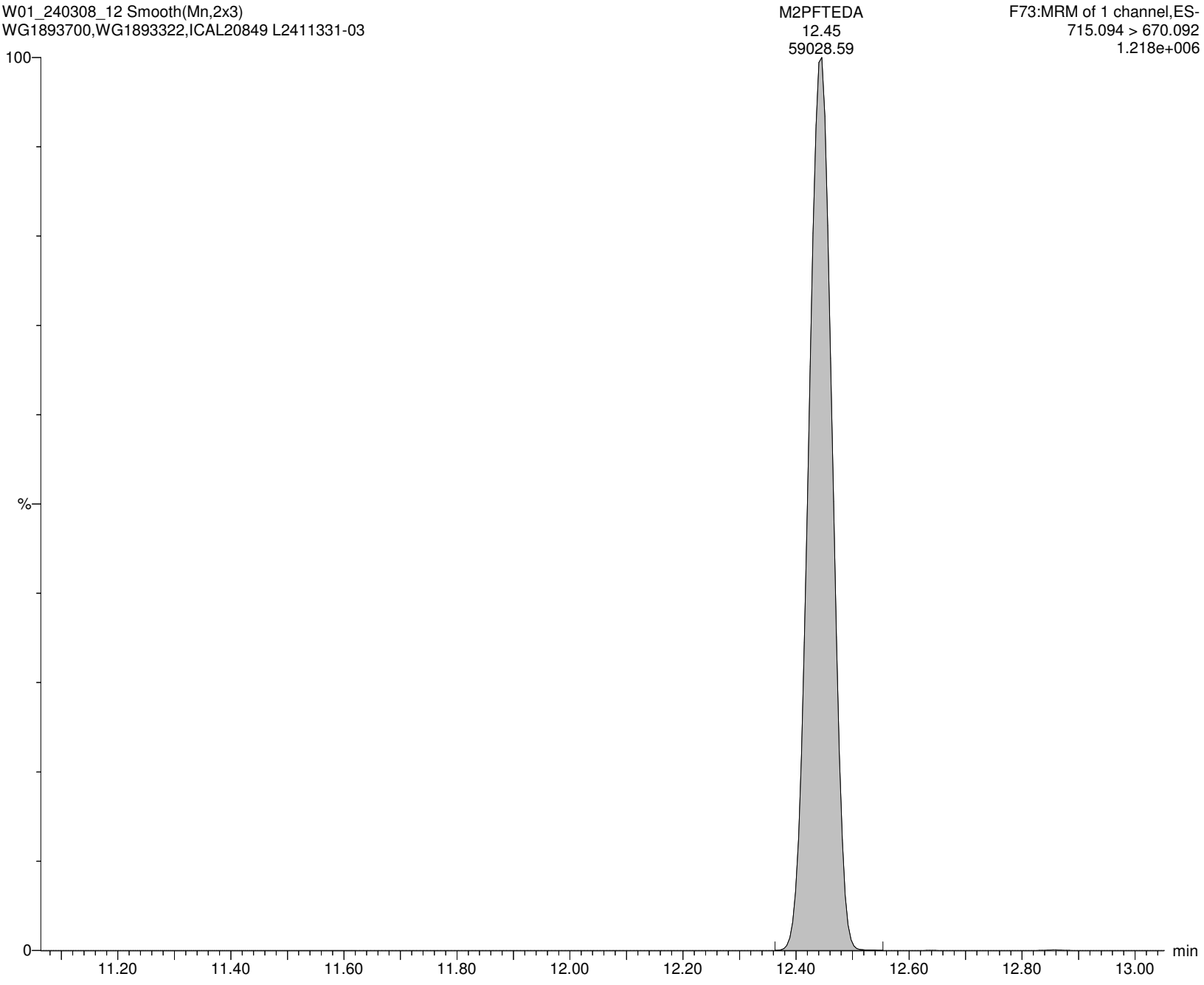

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Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: L2411331-04
Name: W01_240308_13
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	8532		2.829		na	
2	M3PFBA	INT STD	2.23	216.009 > 171.999	35692		4.654		na	46.5
3	MPFBA	INT STD	2.24	217.001 > 171.999	33297		8.199		na	82.0
4	PFPeA	2706-90-3	5.13	263.039 > 219.03	6185		3.388		na	
5	M5PFPEA	INT STD	5.13	268.001 > 222.999	18057		4.258		na	42.6
6	PFBS	375-73-5	5.77	299.092 > 80.062	3773		4.239	1.91	NO	
7	M3PFBS	INT STD	5.77	302.069 > 80.062	8033		6.709		na	72.0
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	4287		12.152		na	129.6
10	PFHxA	307-24-4	7.01	313.047 > 269.037	9368		4.273	13.10	NO	
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	23083		6.182		na	61.8
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	273		0.251	1.93	NO	
13	PFHpA	375-85-9	8.27	363.055 > 319.045	10014		3.761	4.27	NO	
14	M4PFHpA	INT STD	8.27	367.025 > 322.022	26500		6.670		na	66.7
15	br-PFHxS	355-46-4	8.19	399.107 > 80.062	823	M5,M7	0.787	2.15	NO	
16	L-PFHxS	355-46-4	8.43	399.107 > 80.062	3288		3.005	1.59	NO	
17	PFHxS	355-46-4		399.107 > 80.062	4111		3.791		na	
18	M3PFHxS	INT STD	8.43	402.084 > 80.062	9533		8.278		na	87.3
19	br-PFOA	335-67-1	8.99	413.063 > 369.053	3591		0.948	1.85	NO	
20	L-PFOA	335-67-1	9.22	413.063 > 369.053	41759		11.025	8.78	NO	
21	PFOA	335-67-1		413.063 > 369.053	45351		11.973		na	
22	M8PFOA	INT STD	9.21	421.002 > 376.	36842		8.534		na	85.3
23	M2PFOA	INT STD	9.21	415.048 > 370.045	42652		2.873		na	28.7
24	6:2FTS	27619-97-2	9.17	427.161 > 407.155	124	M7	0.193	3.46	NO	
25	M2-6:2FTS	INT STD	9.17	429.146 > 409.14	7072		17.448		na	183.5
26	PFHpS	375-92-8	9.30	449.115 > 80.062	326	M4,M7	0.307	1.48	NO	
27	PFNA	375-95-1	9.97	463.071 > 419.061	7744		1.777	5.18	NO	
28	M9PFNA	INT STD	9.97	472.002 > 427.	43253		9.644		na	96.4
29	br-PFOS	1763-23-1	9.77	499.123 > 80.062	7452		4.970	4.47	NO	
30	L-PFOS	1763-23-1	10.02	499.123 > 80.062	9466	M7	7.377	1.68	NO	
31	PFOS	1763-23-1		499.123 > 80.062	16918		12.347		na	
32	M4PFOS	INT STD	10.02	503.093 > 80.062	12605		3.403		na	35.5
33	M8PFOS	INT STD	10.02	507.062 > 80.062	11467		8.527		na	88.9
34	PFDA	335-76-2	10.60	513.078 > 469.069	7014		1.790	4.16	NO	
35	M2PFDA	INT STD	10.61	515.063 > 470.061	50528		3.766		na	37.7
36	M6PFDA	INT STD	10.61	519.033 > 474.03	40266		7.993		na	79.9
37	8:2FTS	39108-34-4	10.60	527.177 > 507.171	113		0.160	3.13	NO	
38	M2-8:2FTS	INT STD	10.60	529.162 > 509.155	8049		18.781		na	195.6
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

all concentration units in (ng/mL)

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ID: L2411331-04
Name: W01_240308_13
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	8307		10.735		na	107.4
41	br-NMeFOSAA	2355-31-9	10.71	570.202 > 419.061	157	M5,M7	0.641	2.66	YES	
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	478		0.839	2.56	NO	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	636		1.480		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	957		0.178	5.86	NO	
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	51608		9.403		na	94.0
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6	10.93	498.146 > 78.07	1206		0.970		YES	
48	M8FOSA	INT STD	10.93	506.077 > 78.07	11233		3.032		na	30.3
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	8037		11.021		na	110.2
50	br-NEtFOSAA	2991-50-6	11.11	584.229 > 419.061	371	M5,M7	1.223	0.73	NO	
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	2596		4.018	1.24	NO	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	2968		5.241		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	536	M7	0.089	8.07	NO	
54	MPFDOA	INT STD	11.64	615.079 > 570.077	55165		8.955		na	89.6
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.43	715.094 > 670.092	57527		10.355		na	103.5

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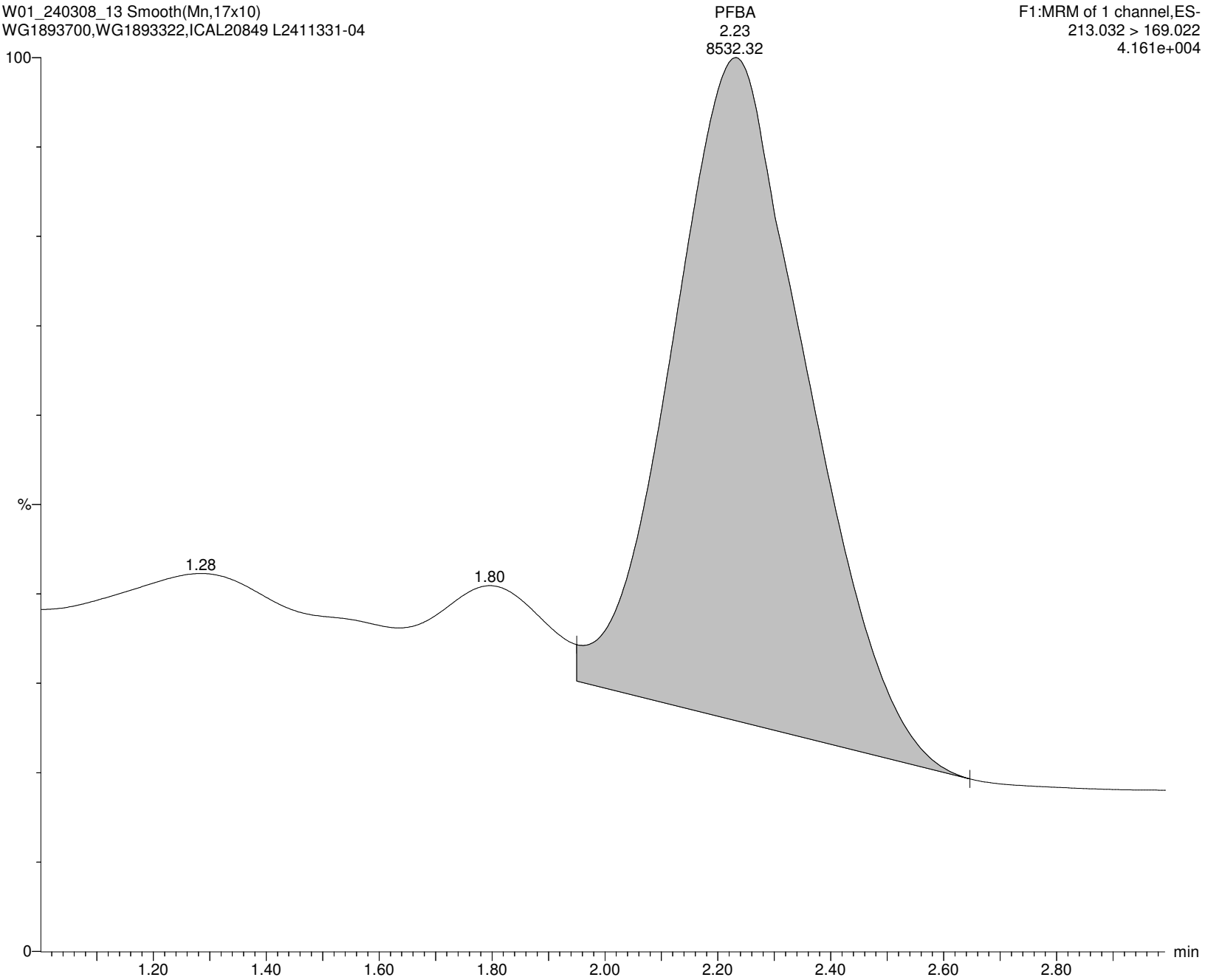

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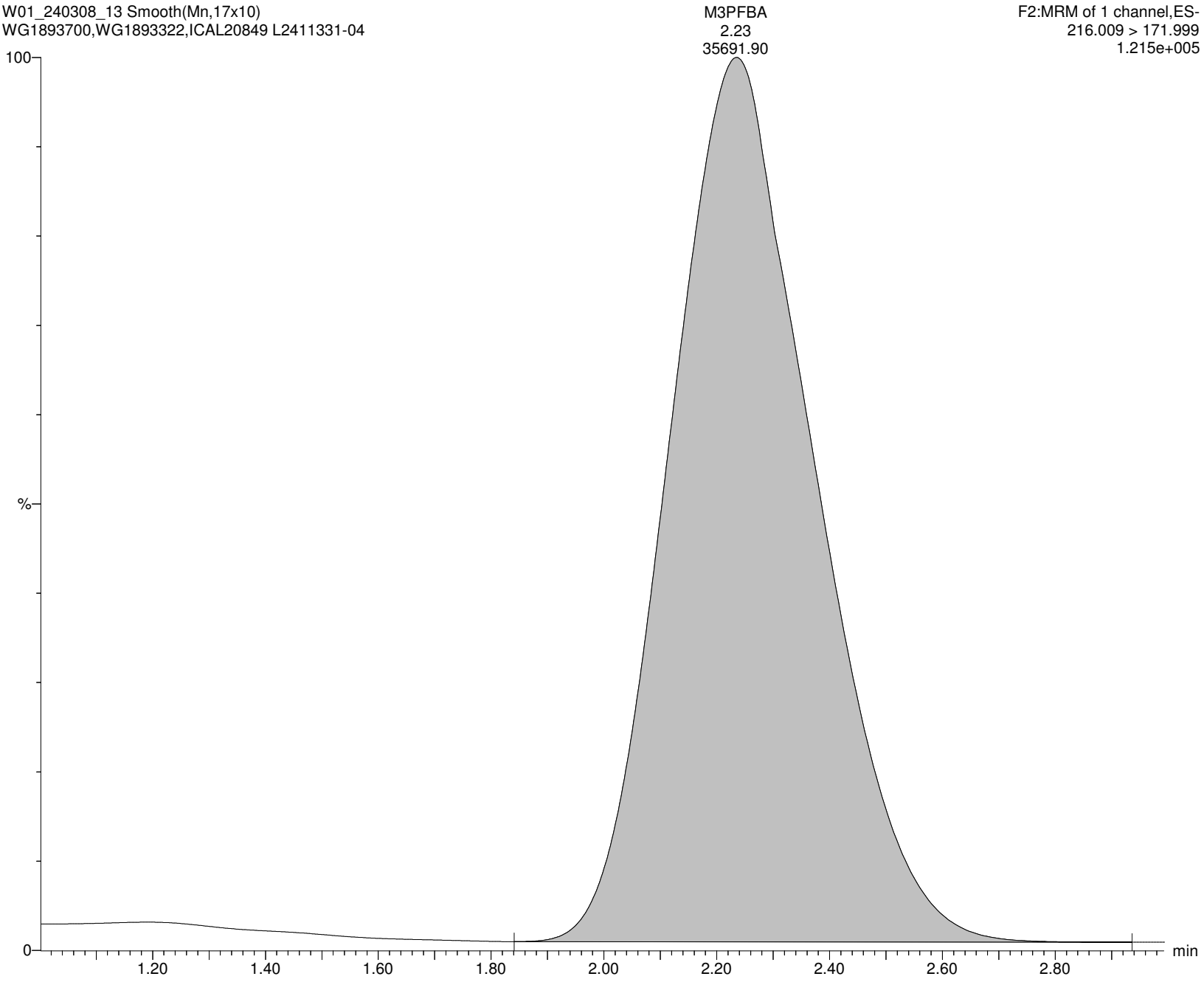

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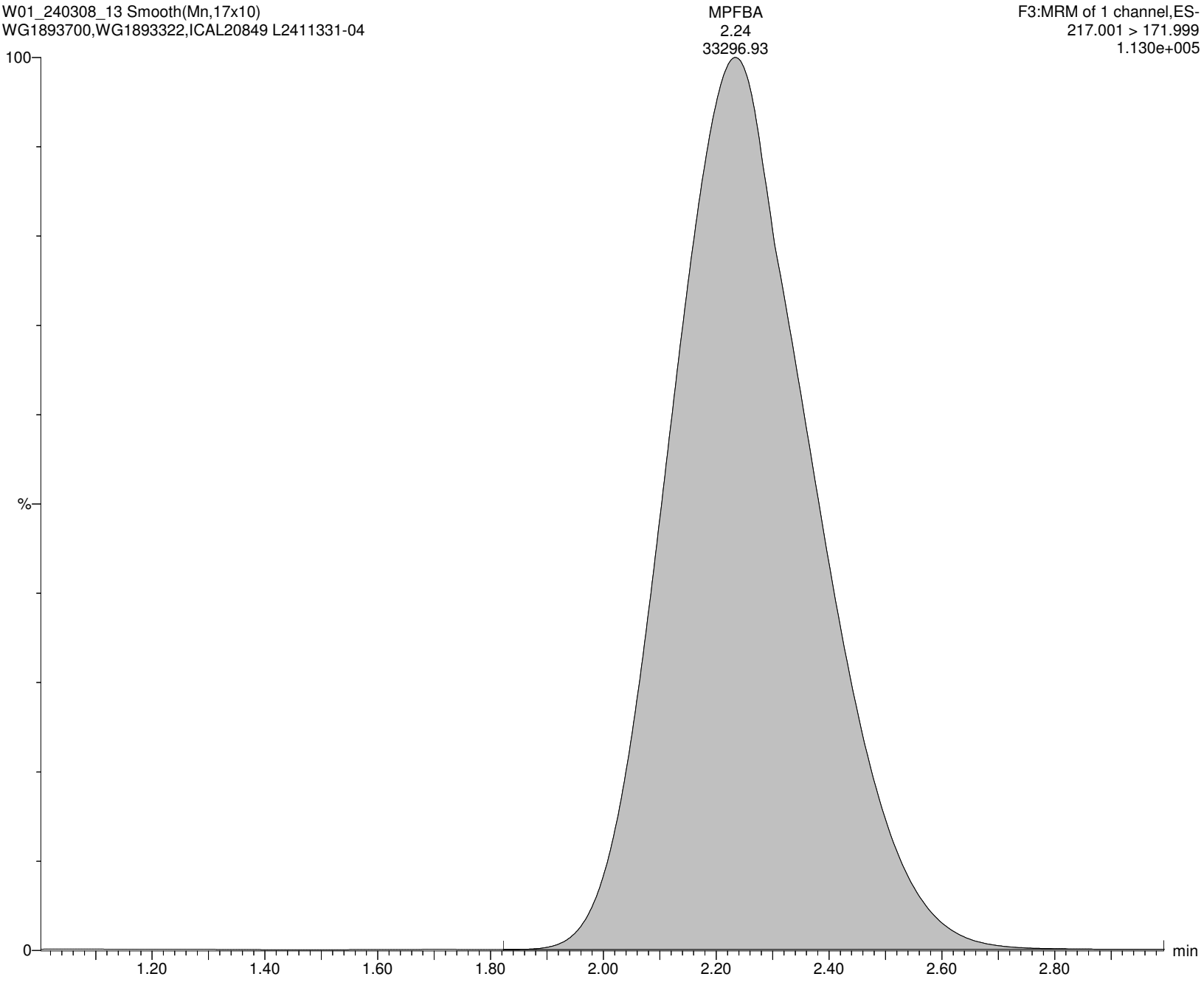

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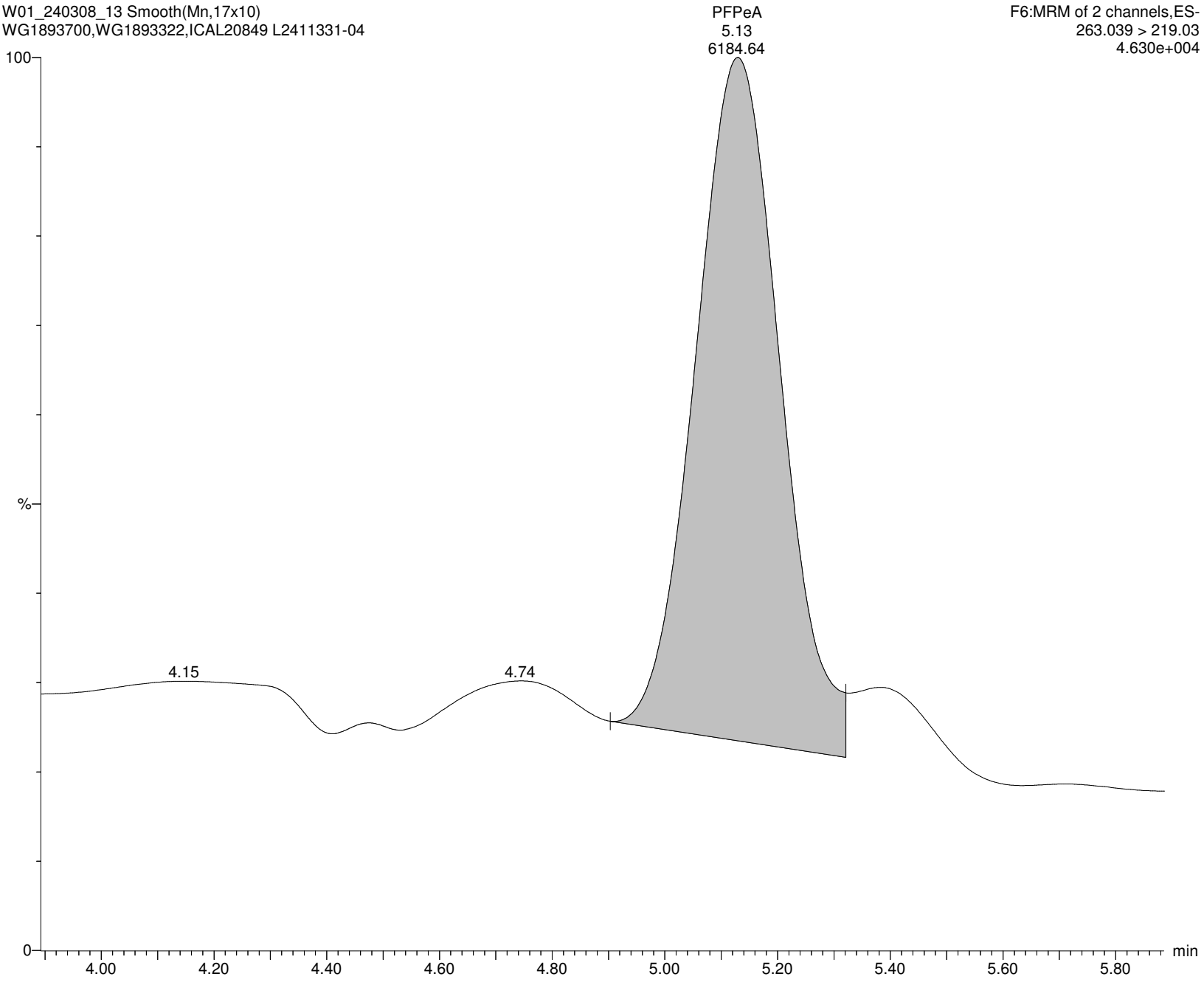
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:44 Eastern Standard Time

Name: W01_240308_13
ID: L2411331-04
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
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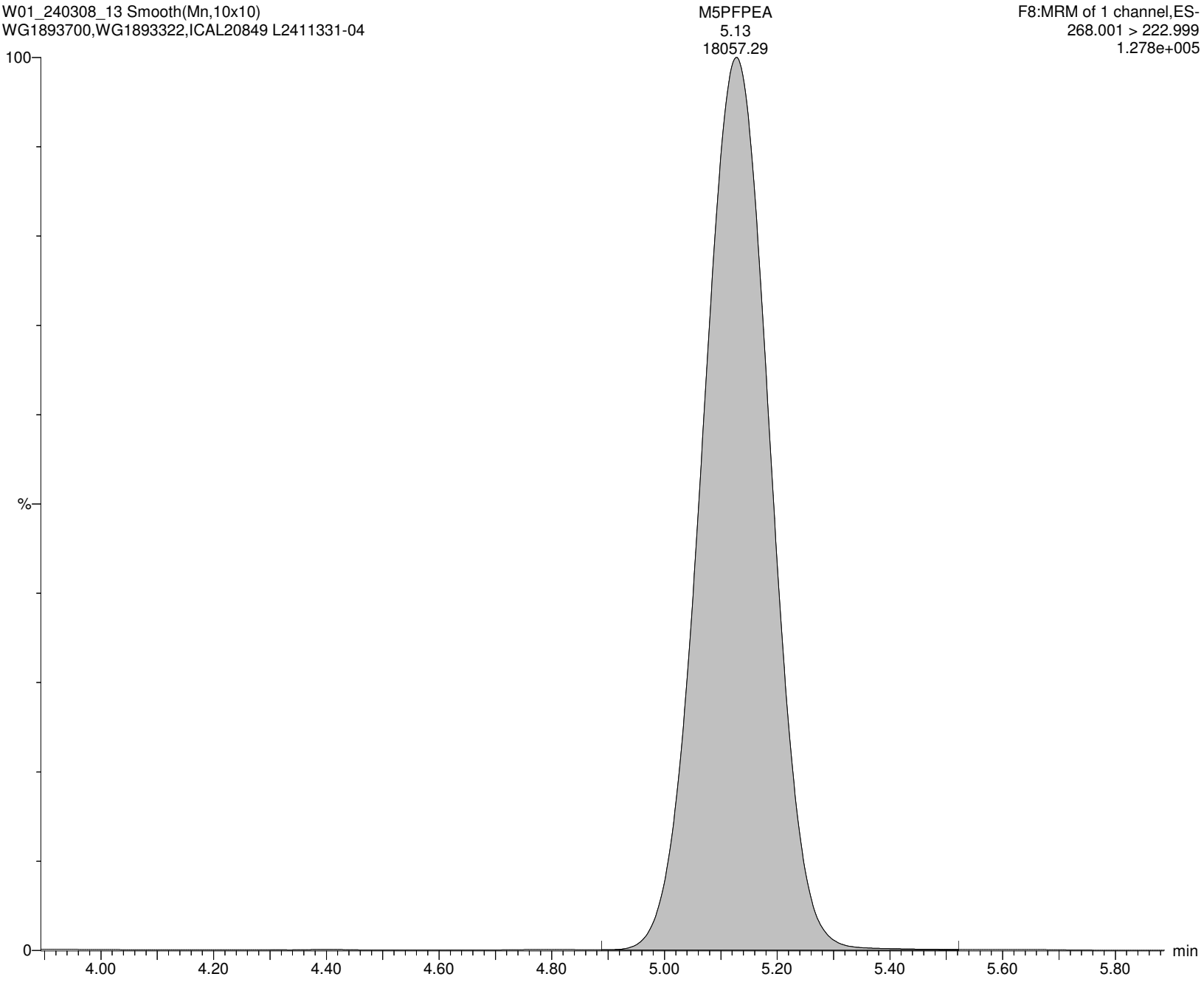

all concentration units in (ng/mL)

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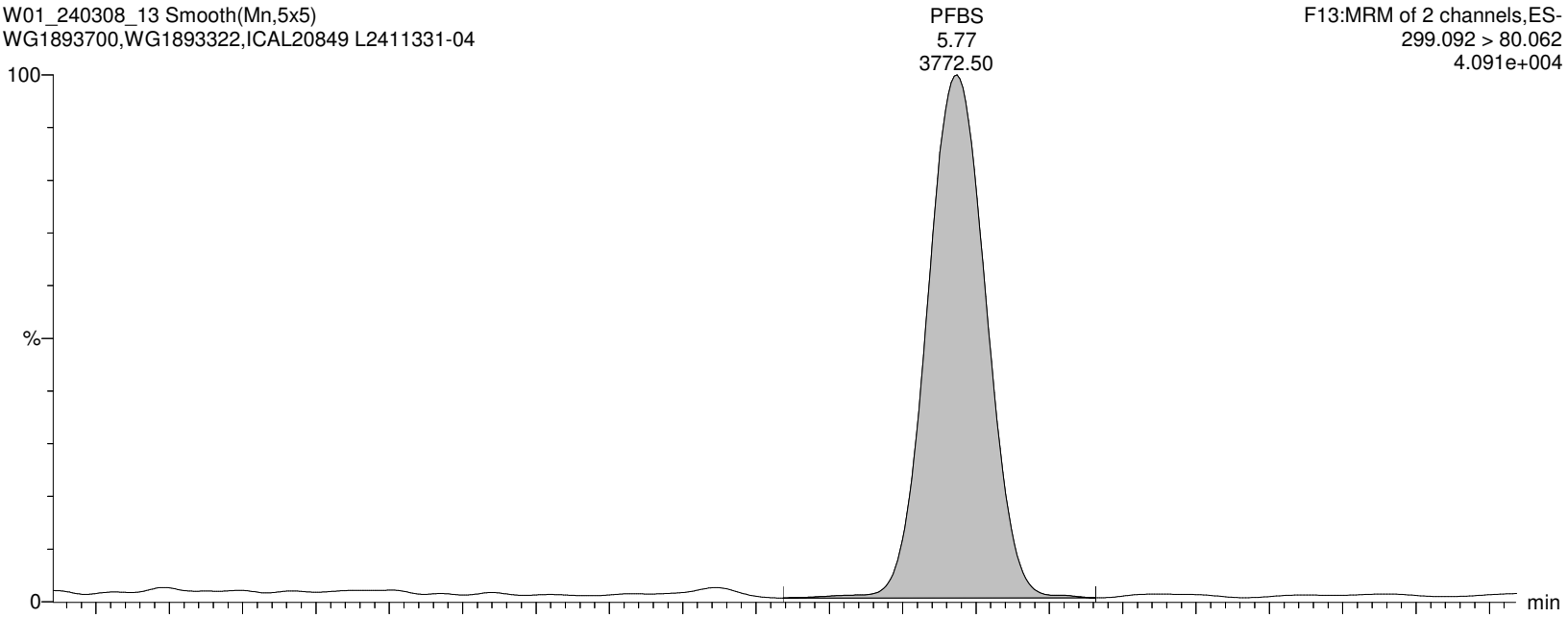
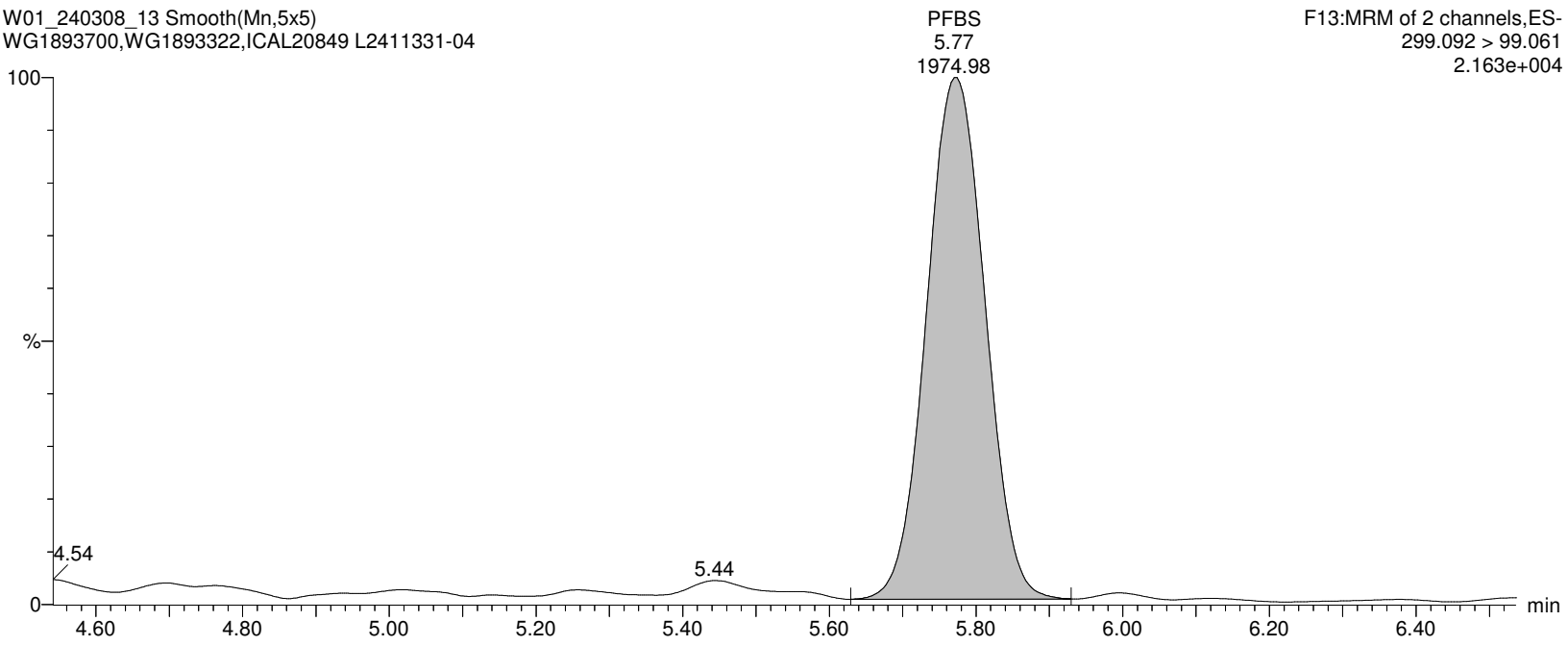
PFBS





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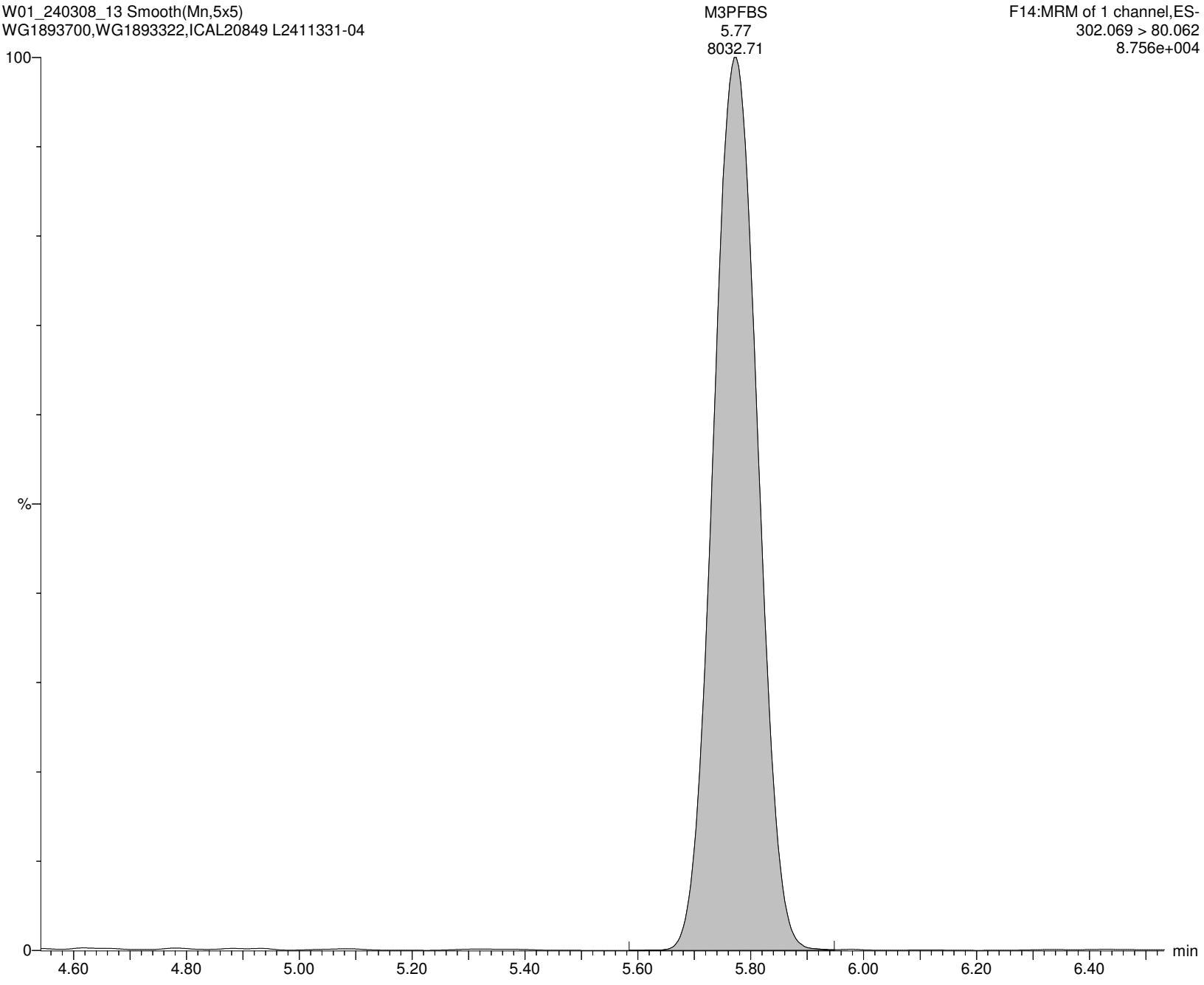

all concentration units in (ng/mL)

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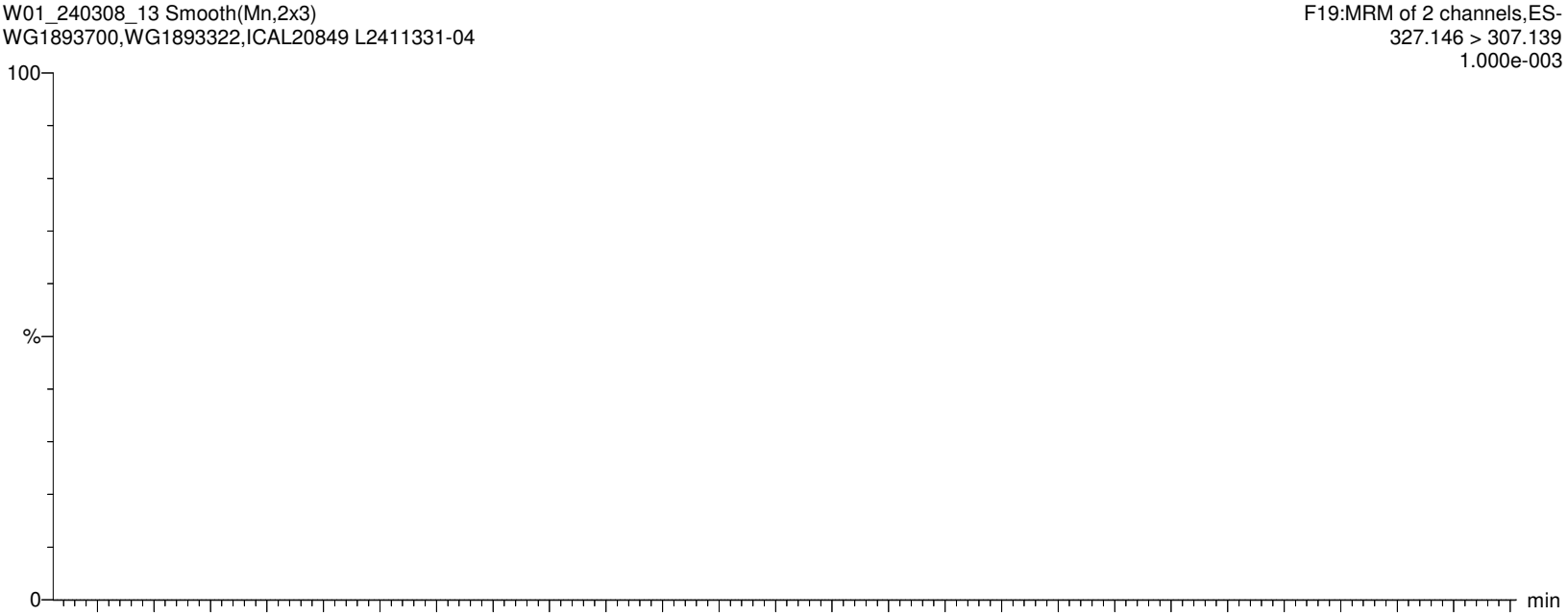
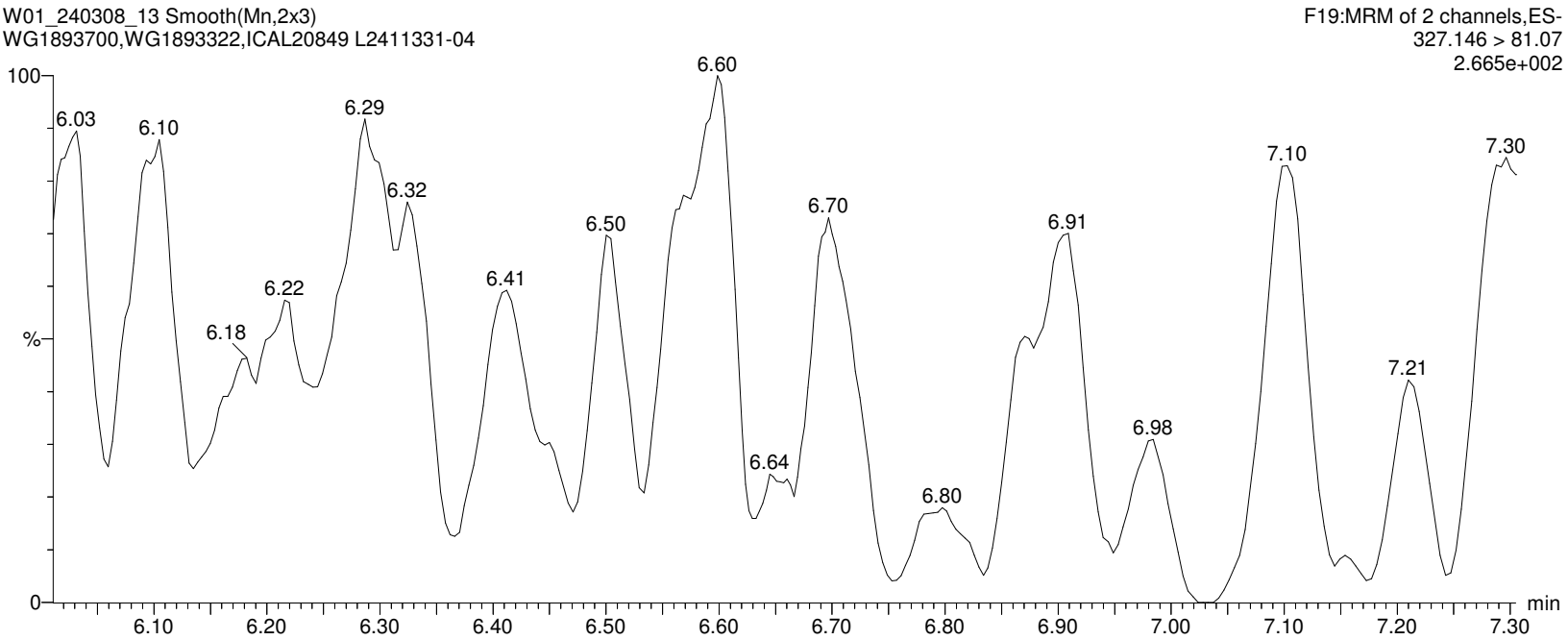
4:2FTS





all concentration units in (ng/mL)

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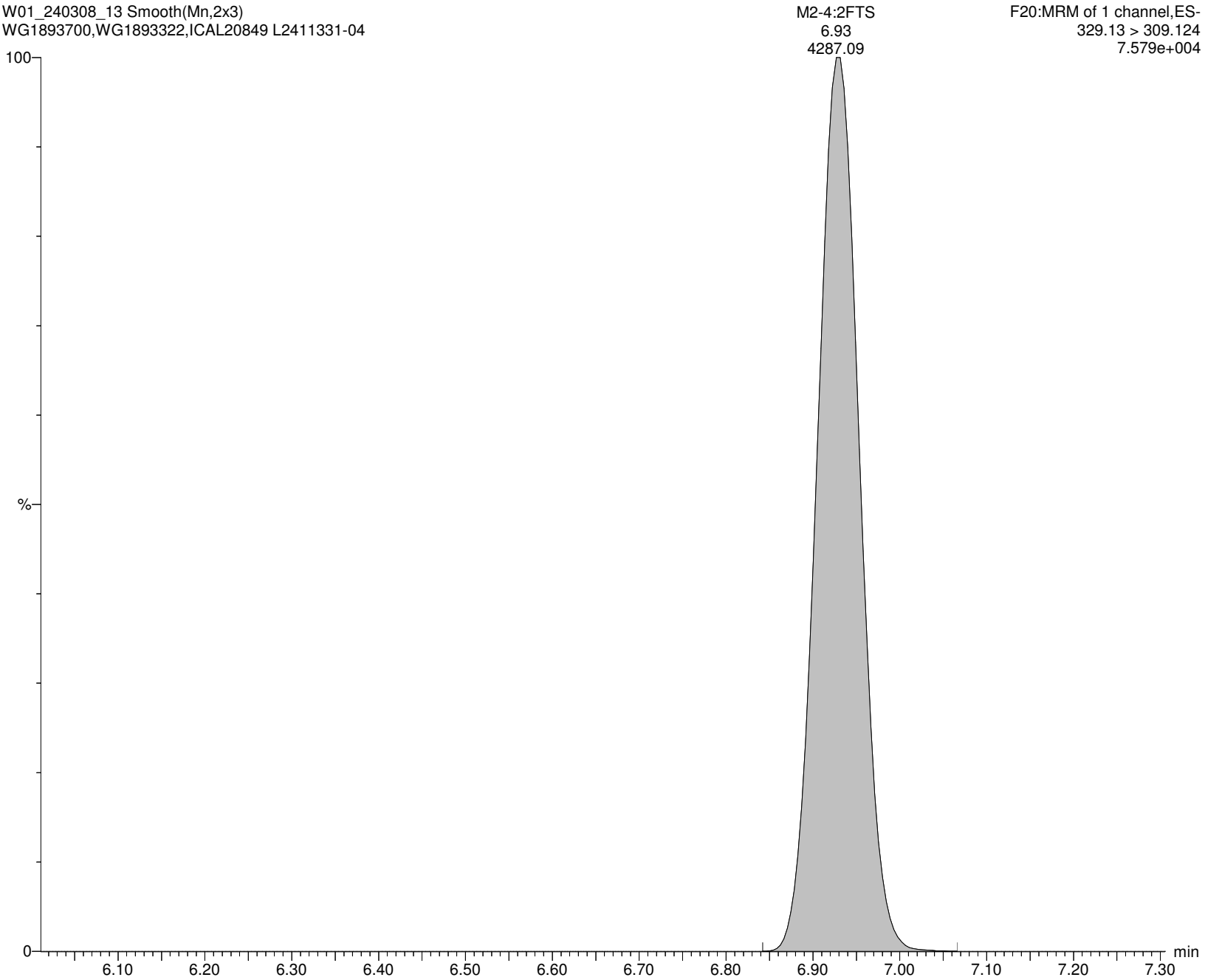

all concentration units in (ng/mL)

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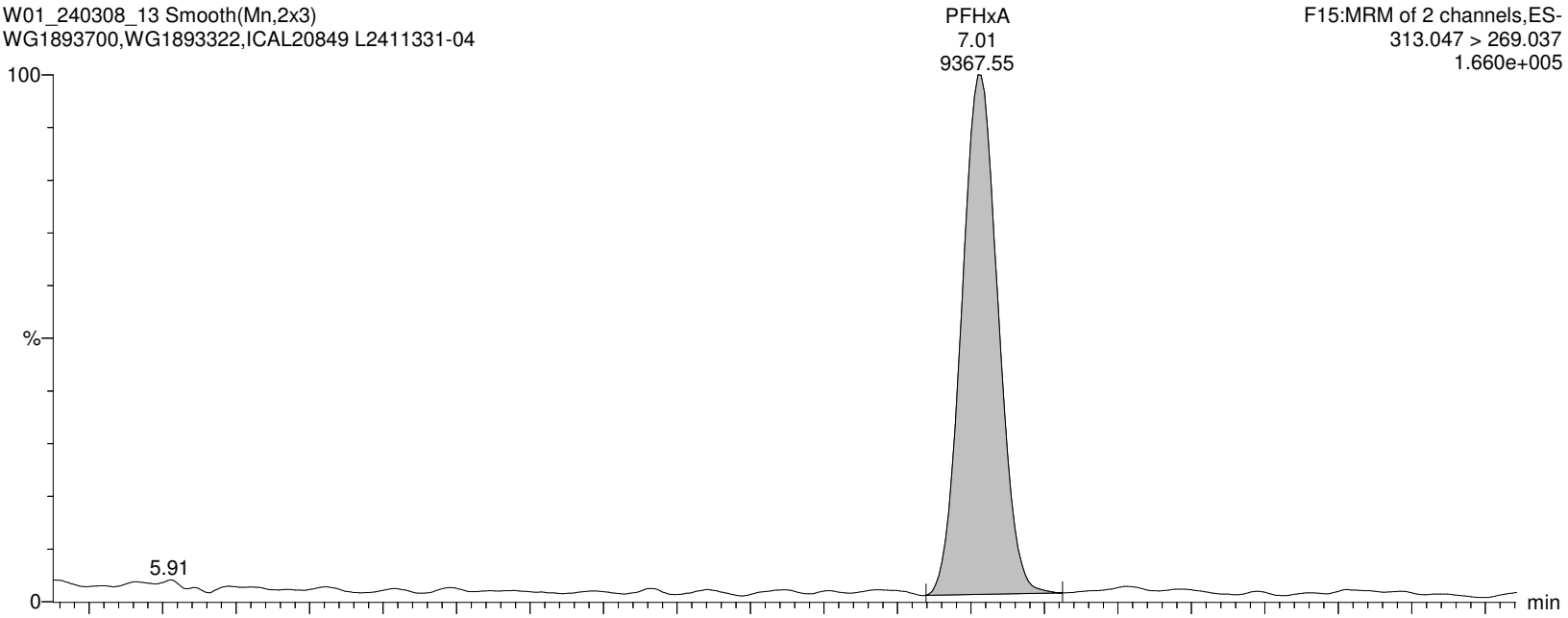
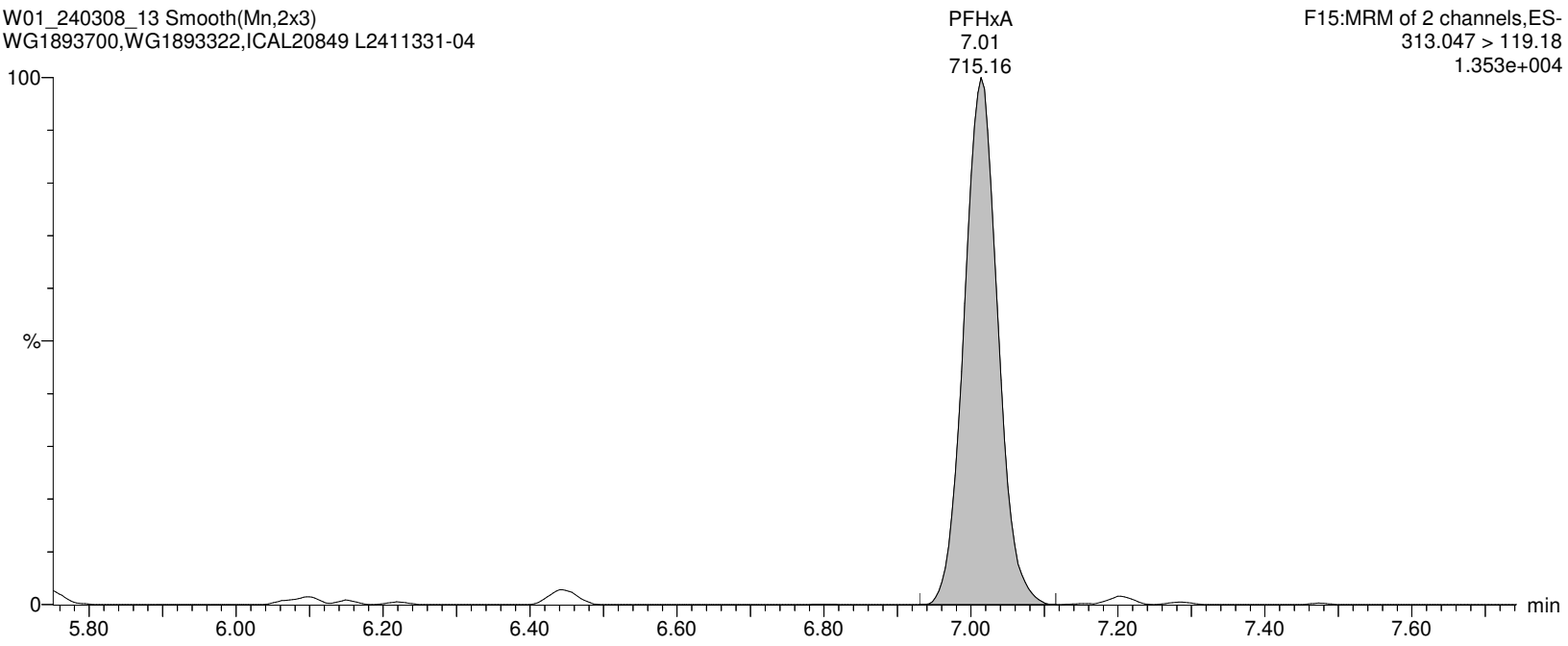
PFHxA





all concentration units in (ng/mL)

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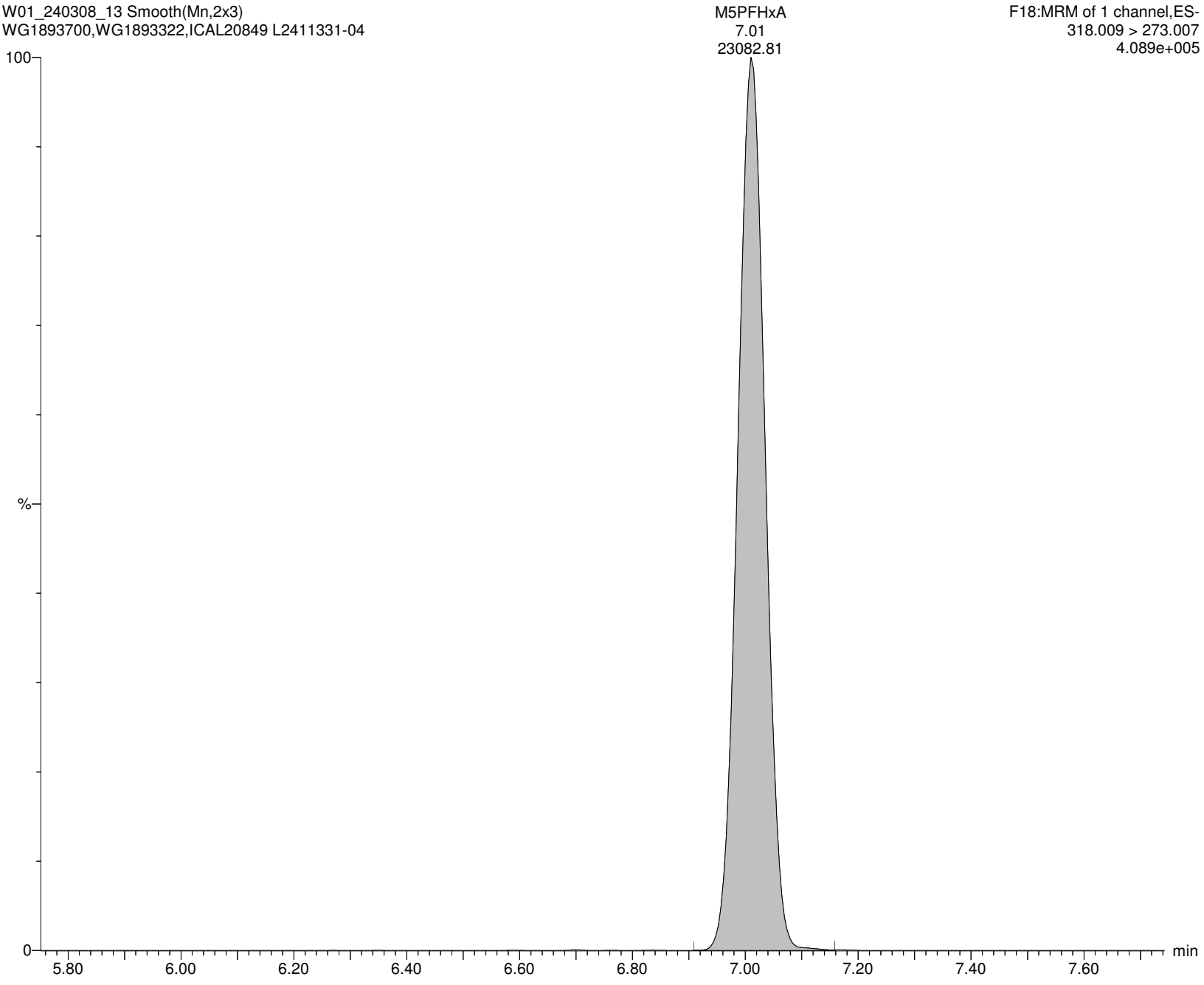

all concentration units in (ng/mL)

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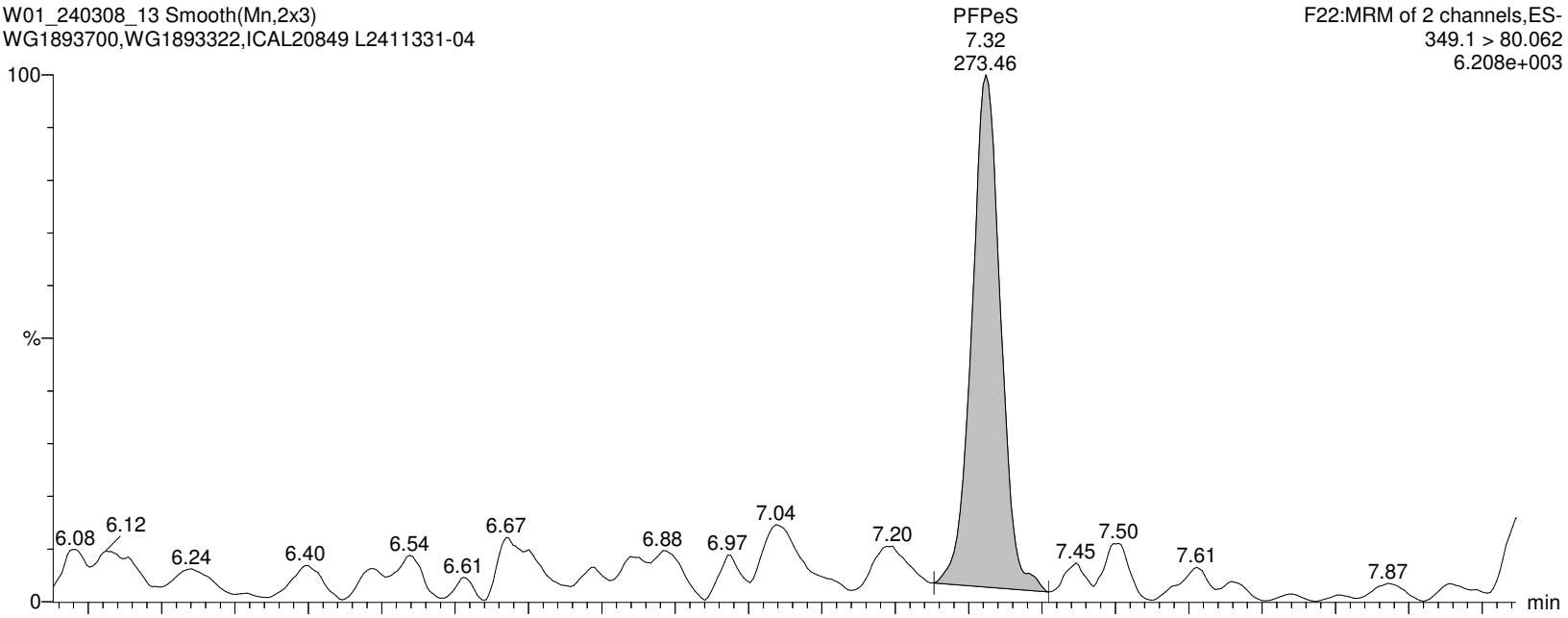

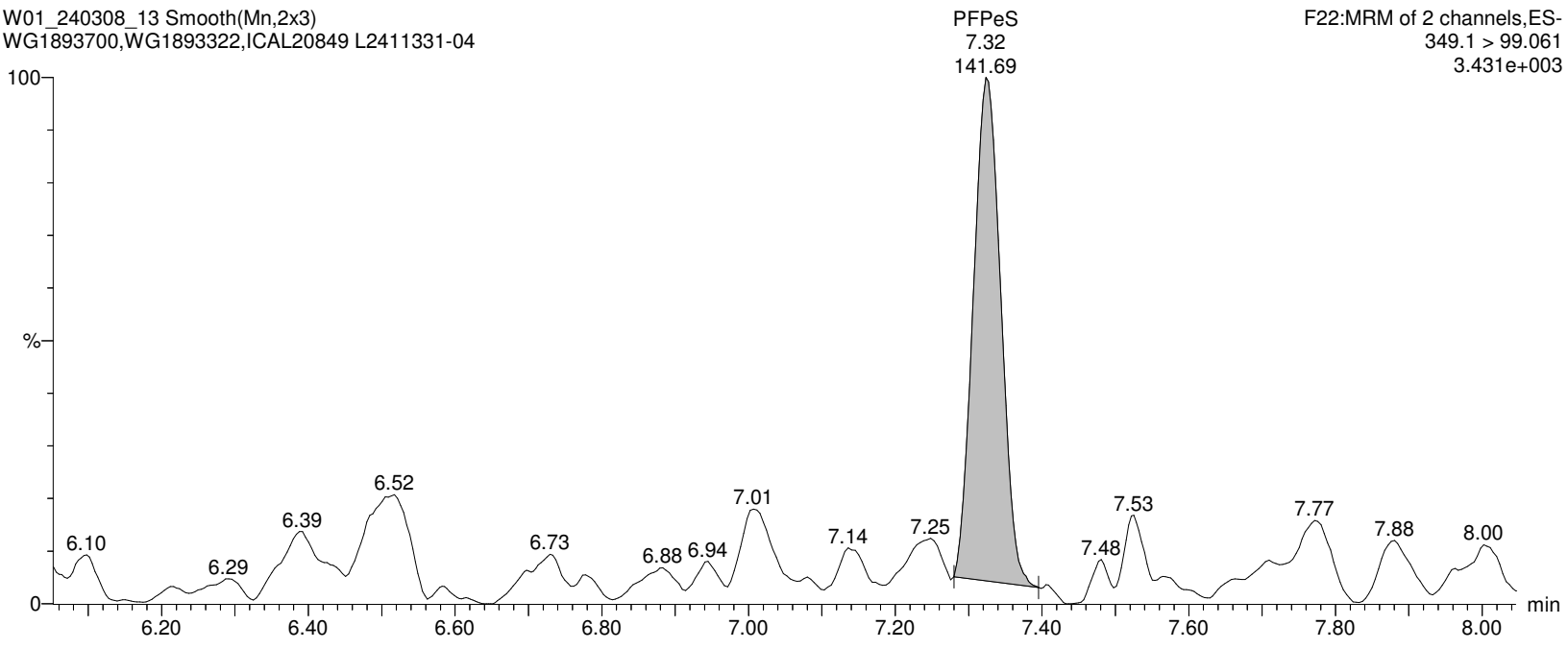

all concentration units in (ng/mL)

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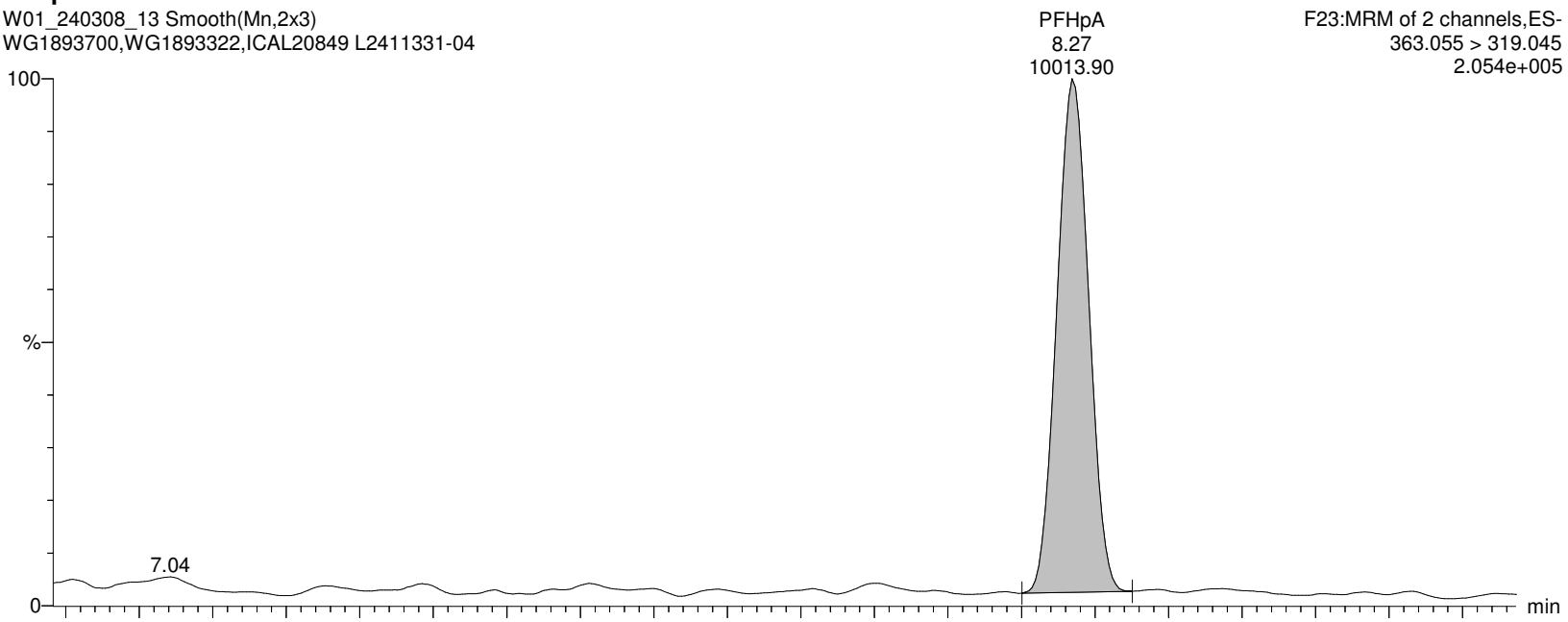

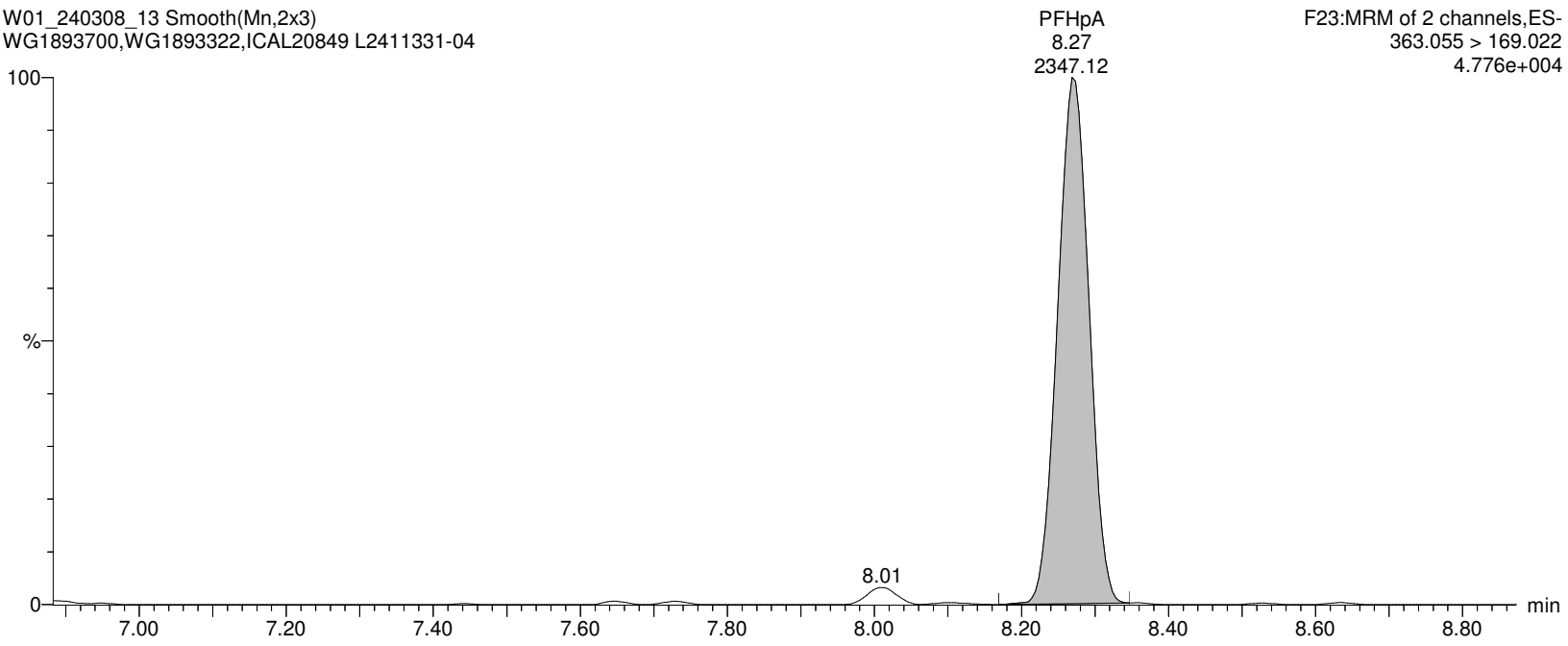

all concentration units in (ng/mL)

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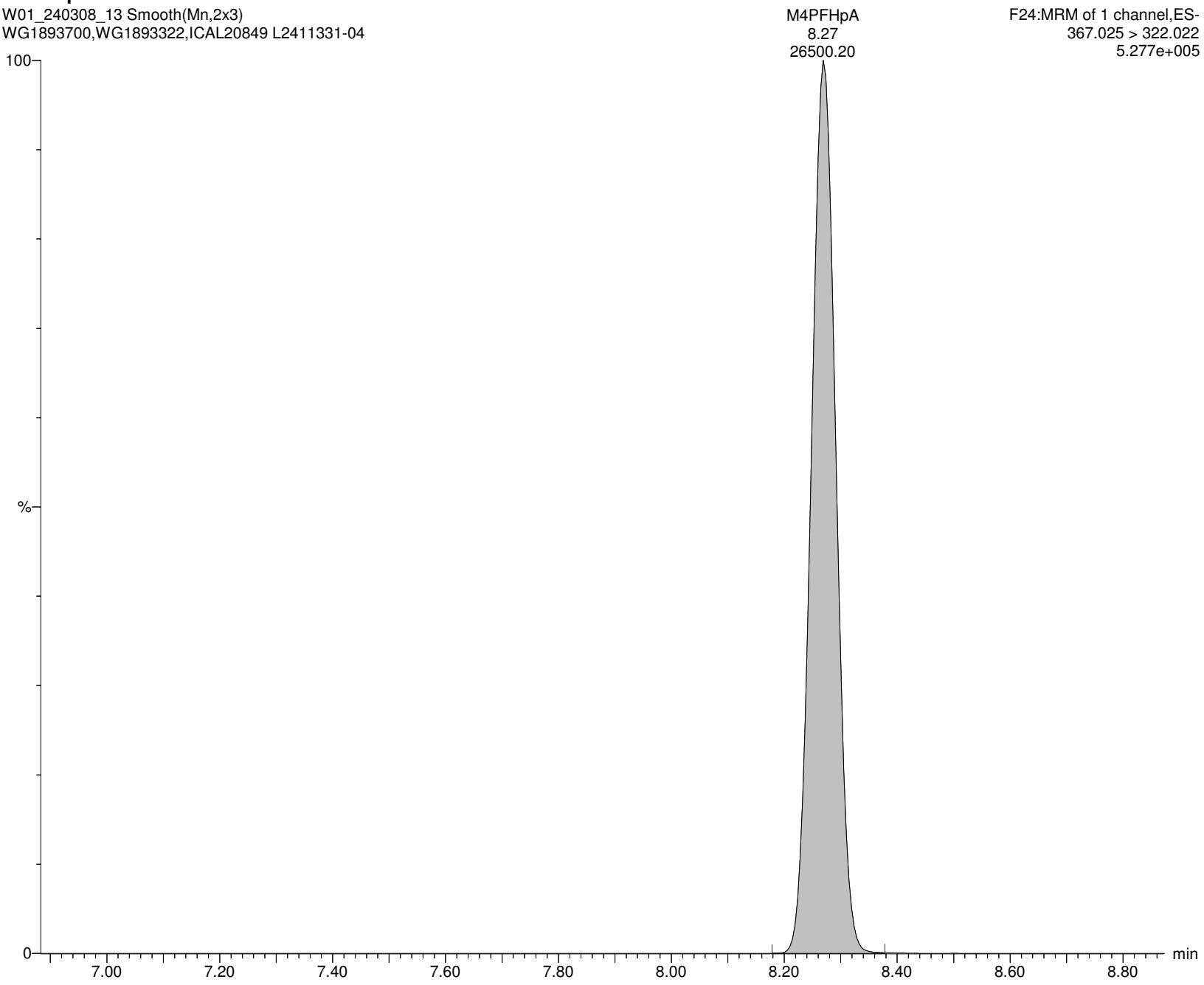

all concentration units in (ng/mL)

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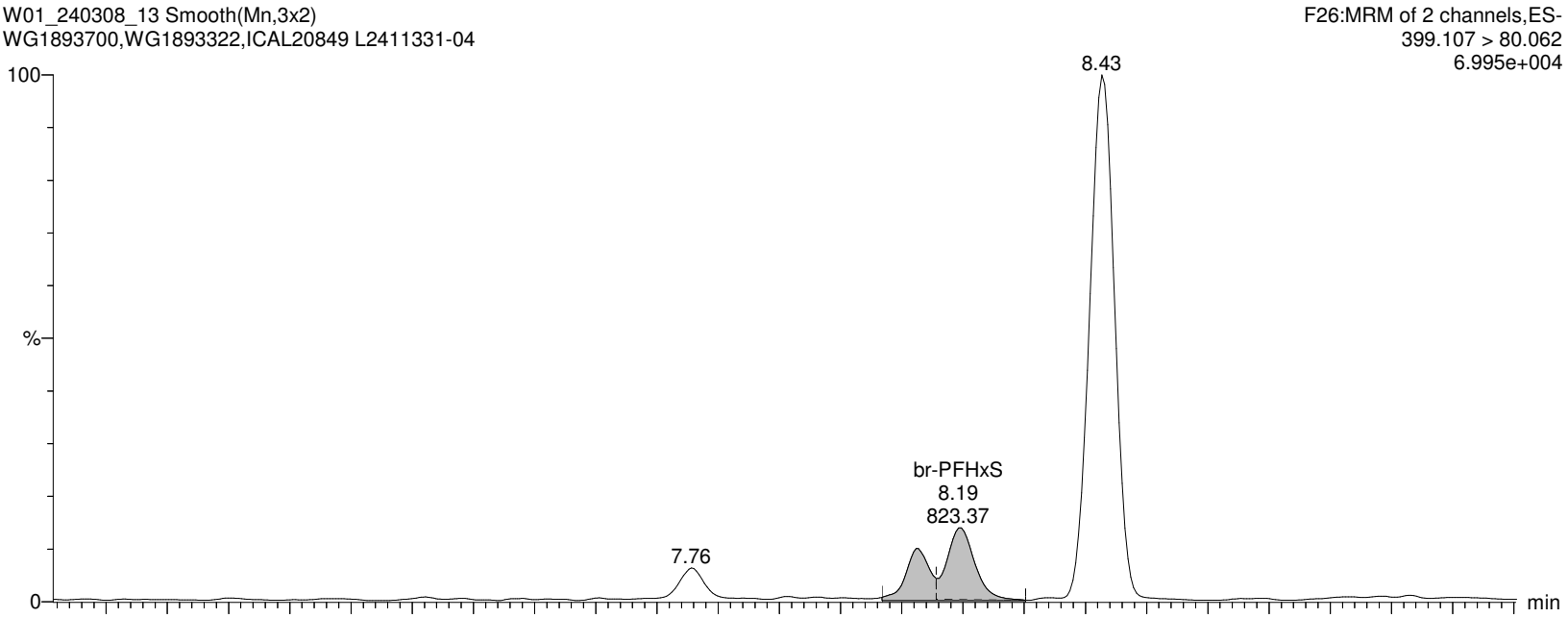

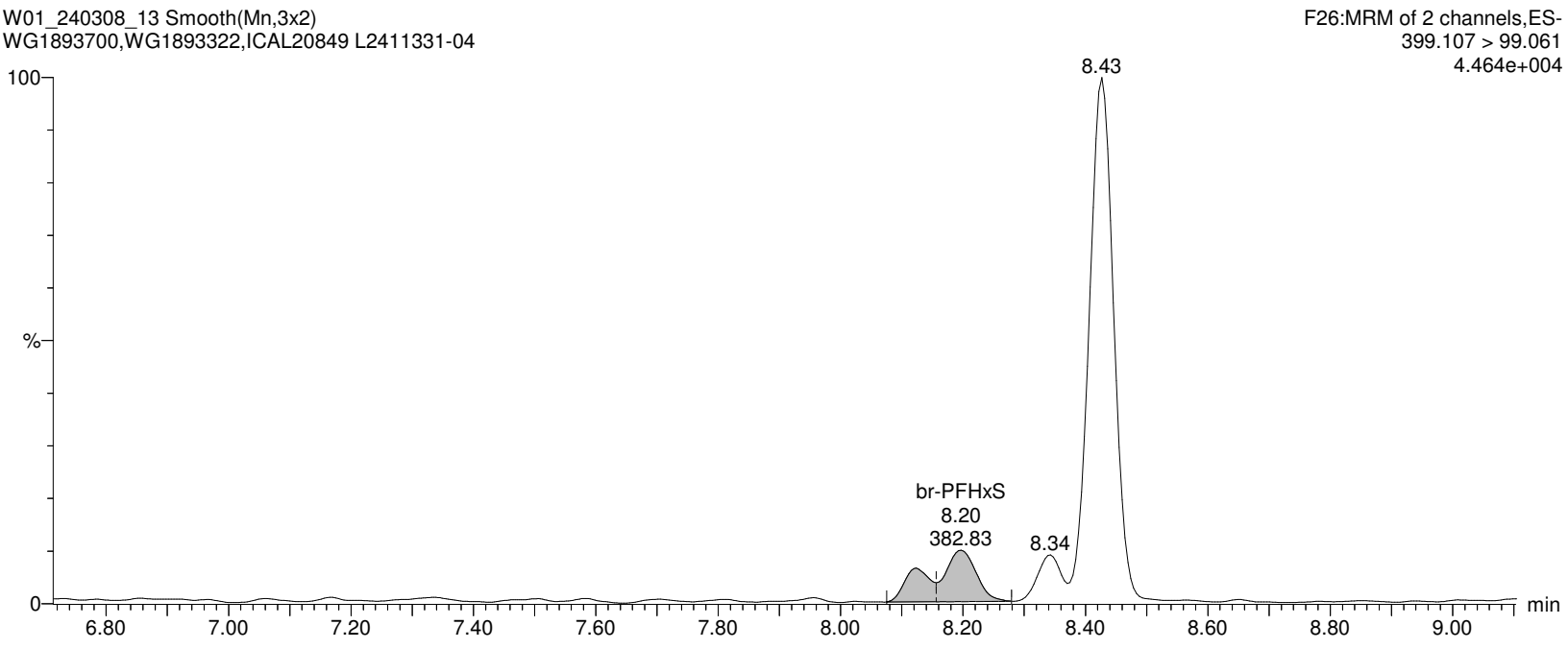

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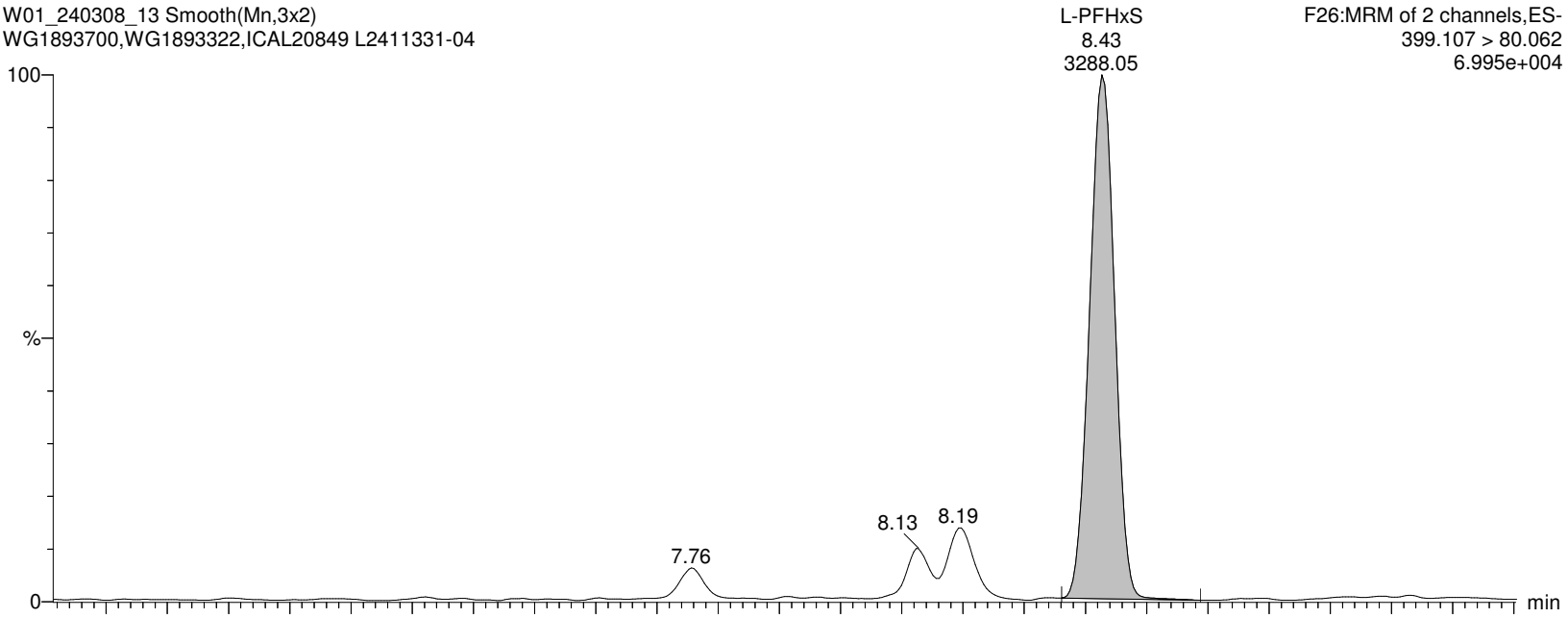

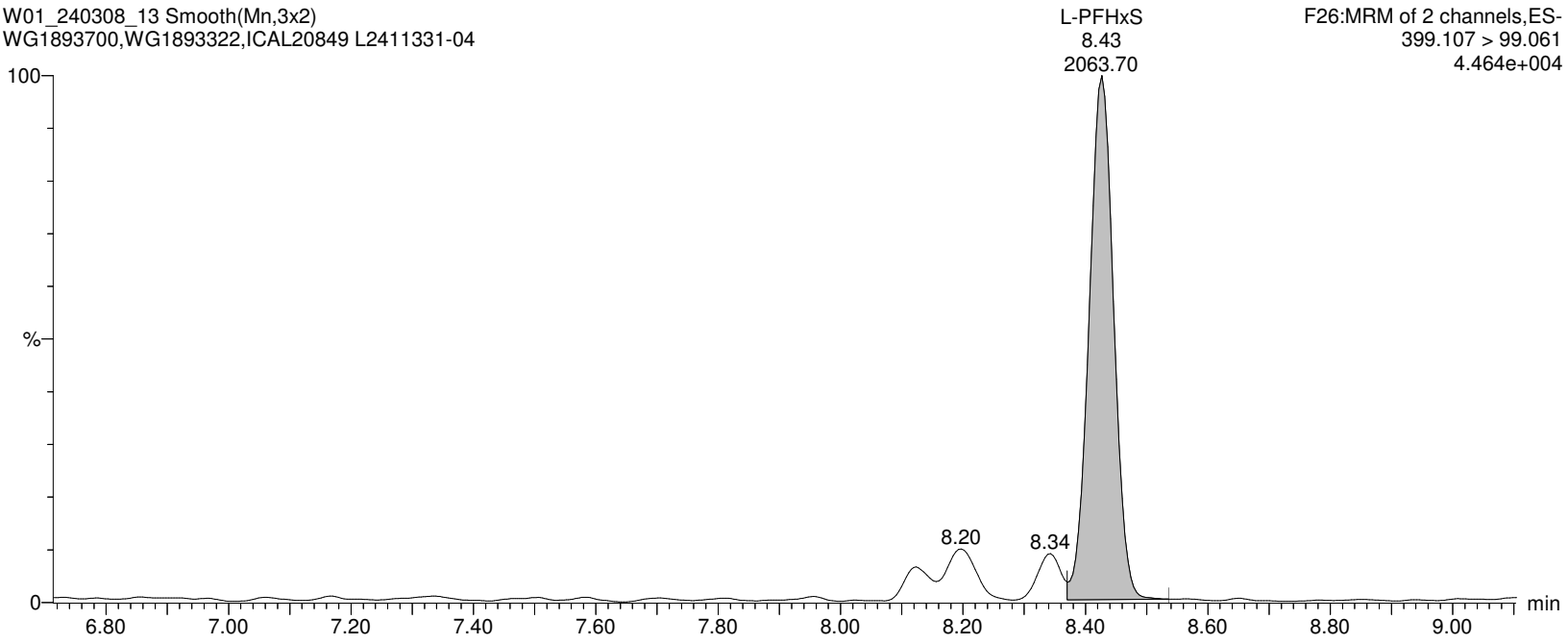

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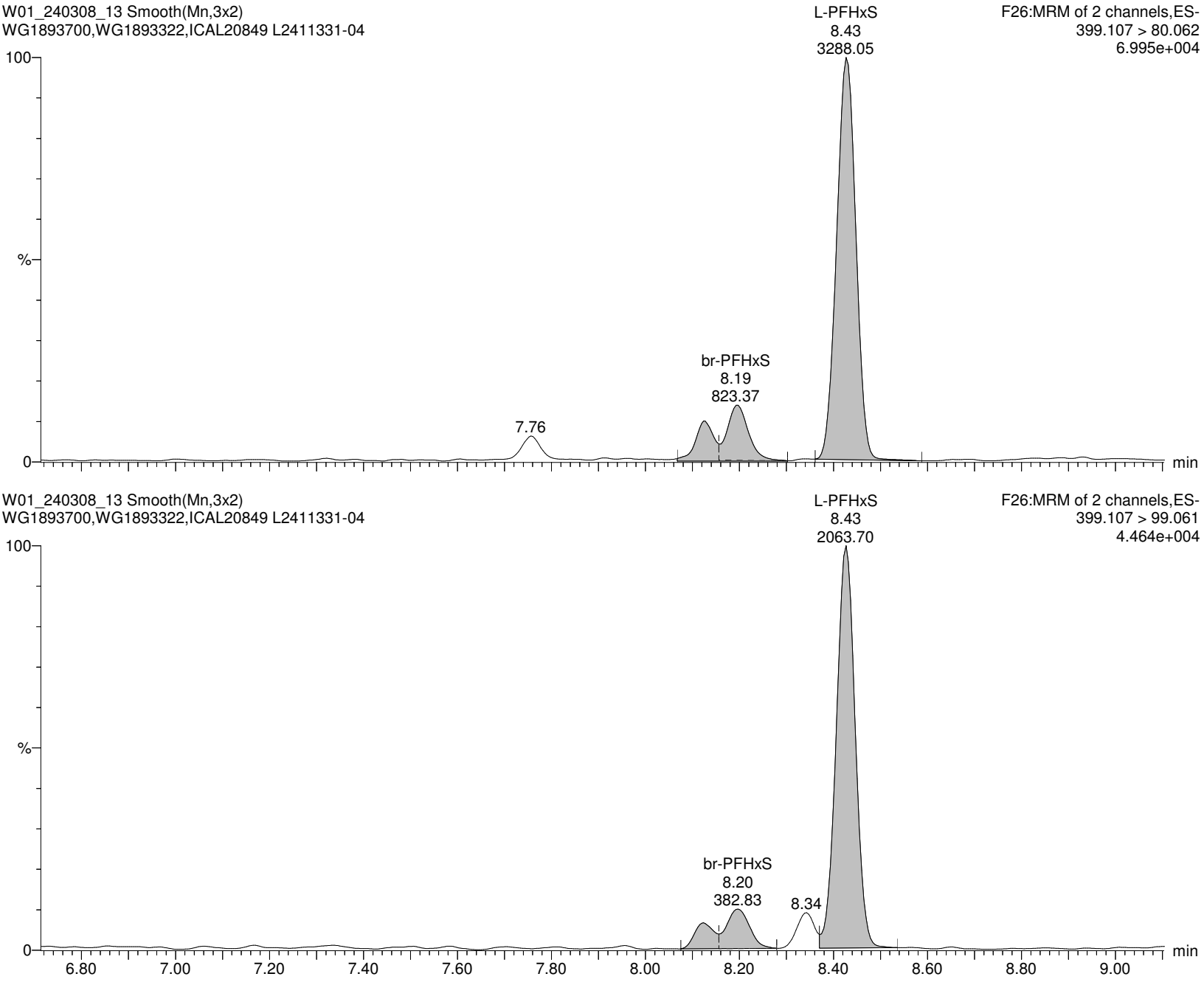

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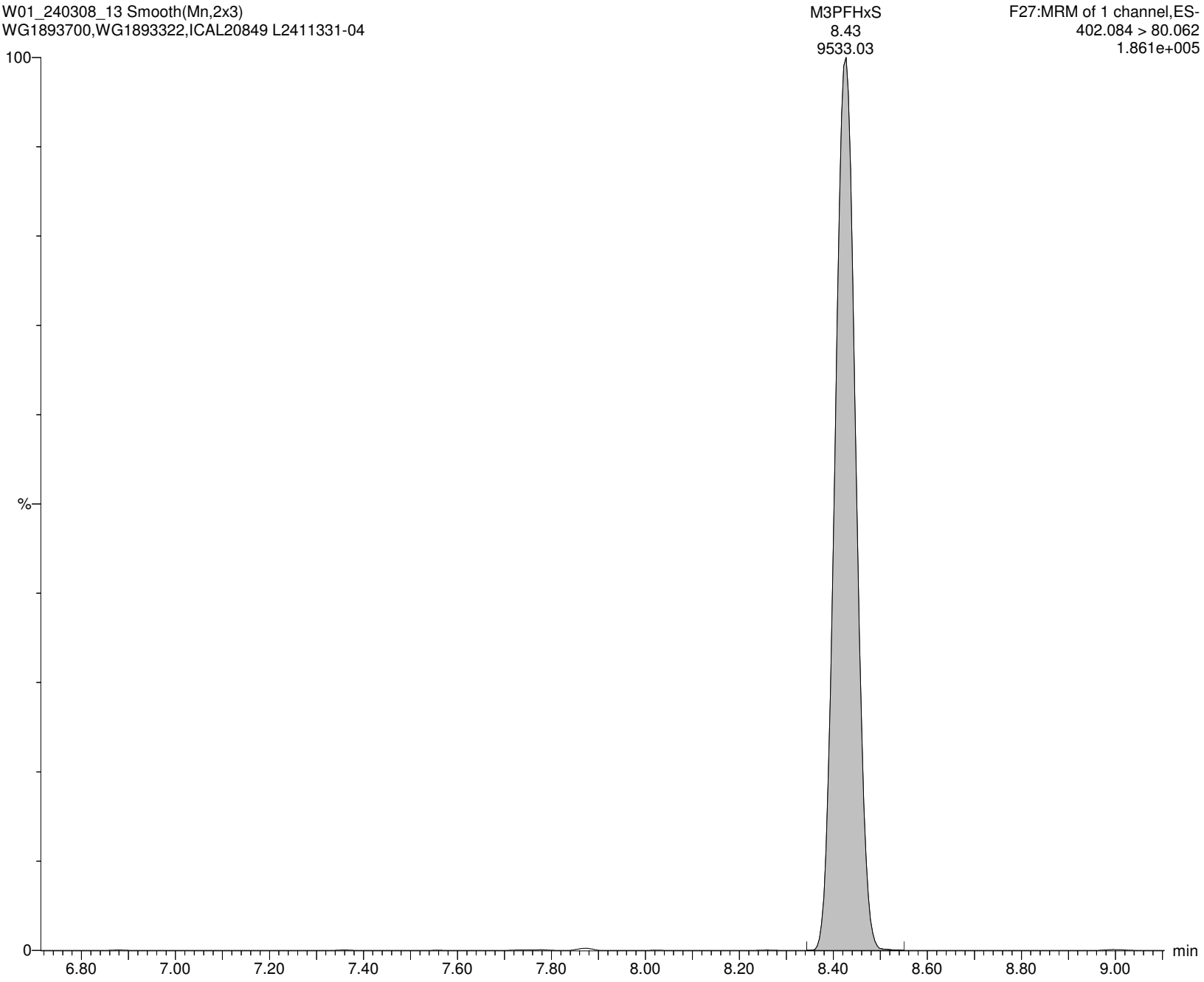

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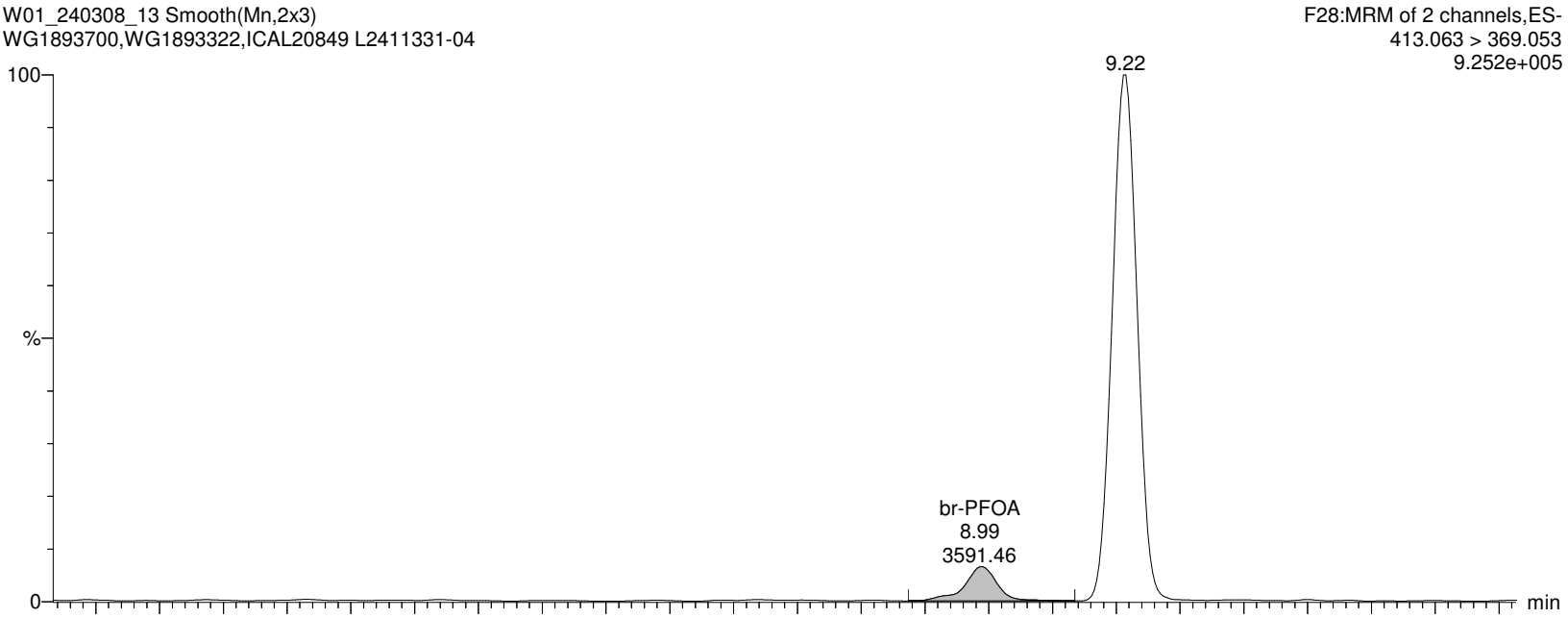

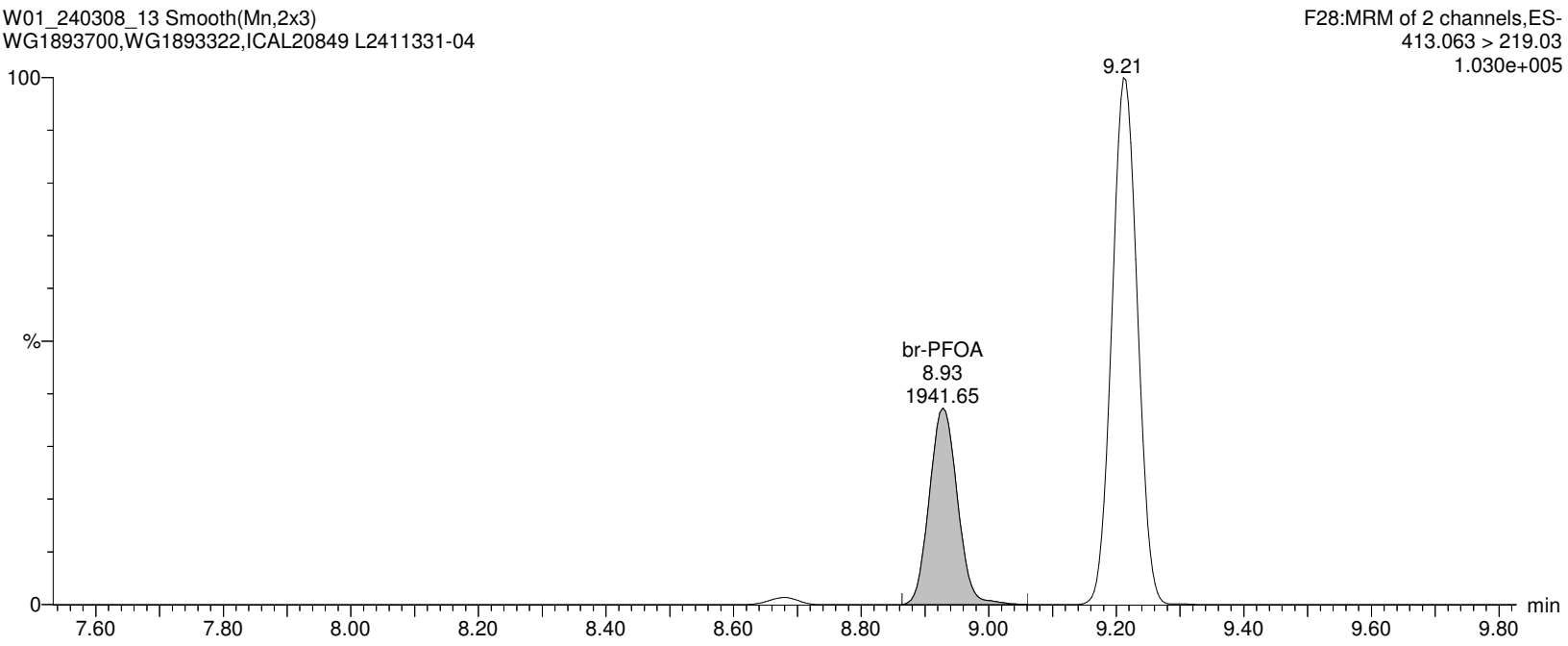

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:44 Eastern Standard Time

Name: W01_240308_13
ID: L2411331-04
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
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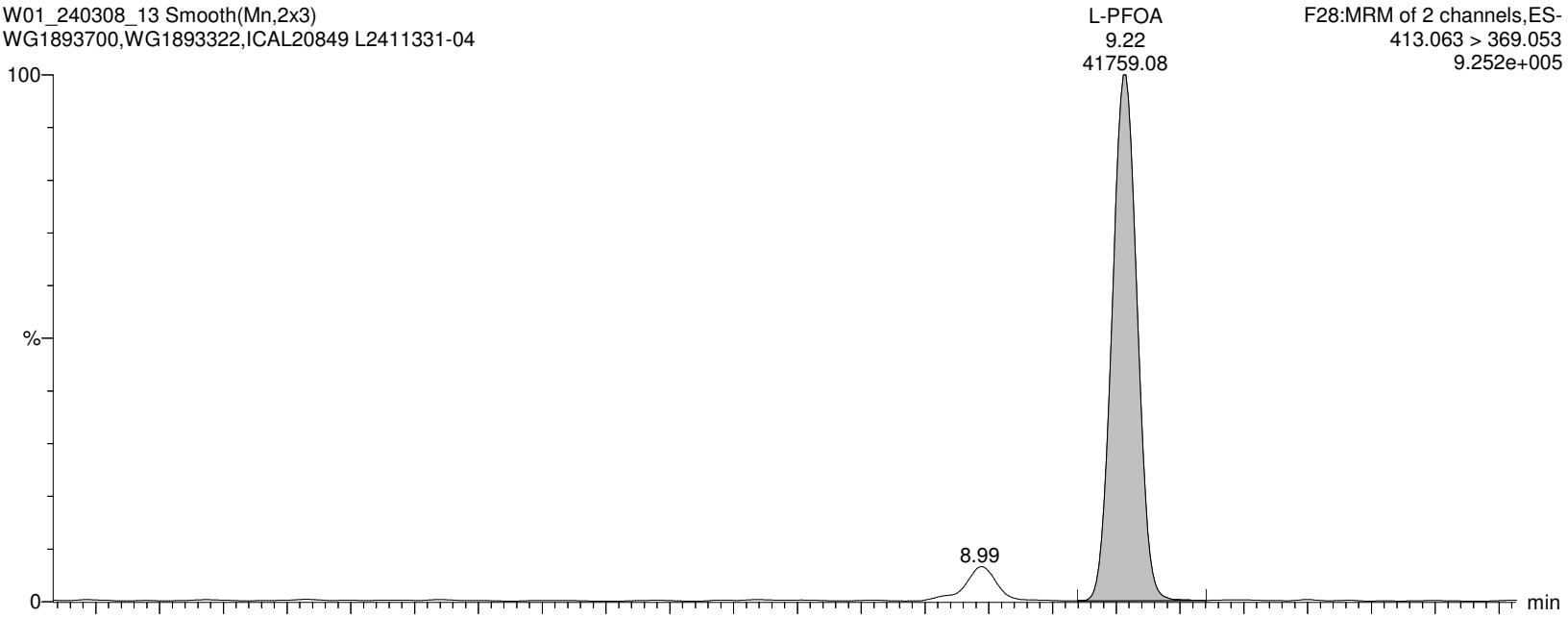

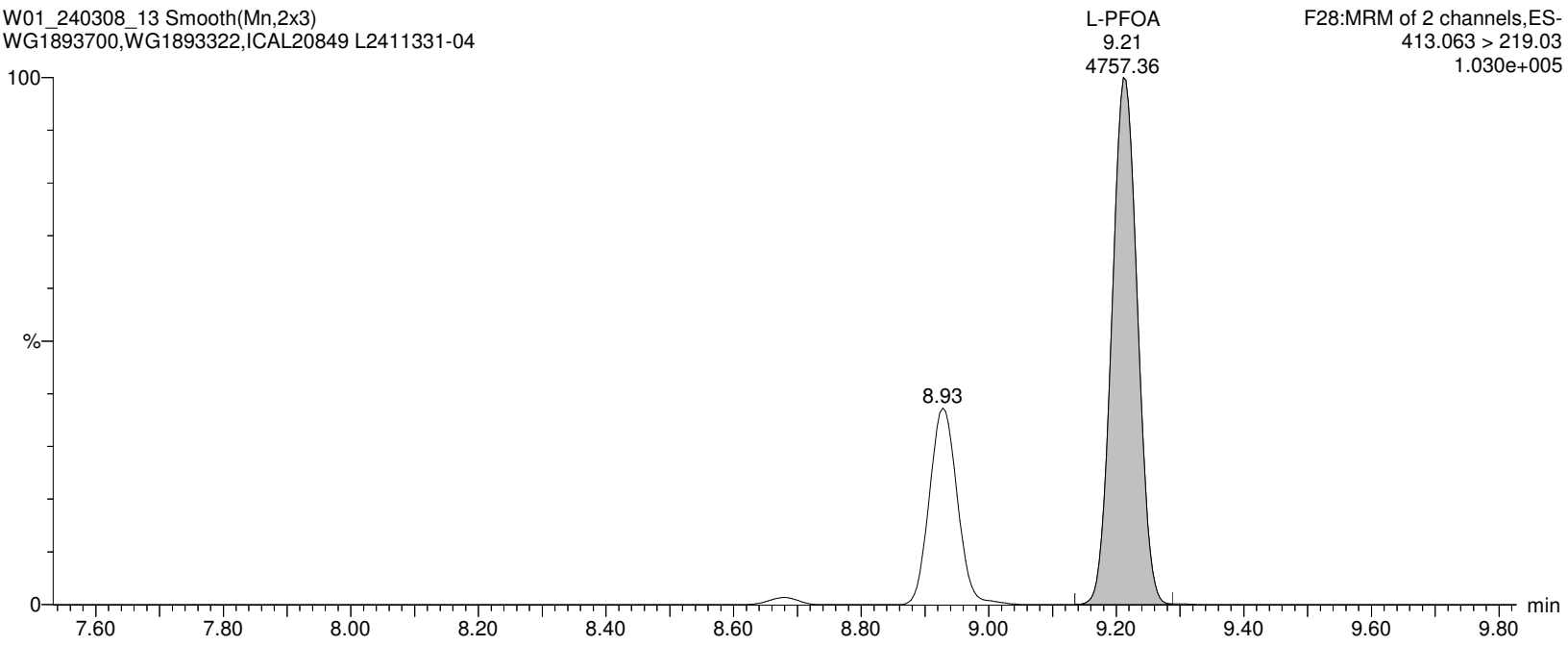

all concentration units in (ng/mL)

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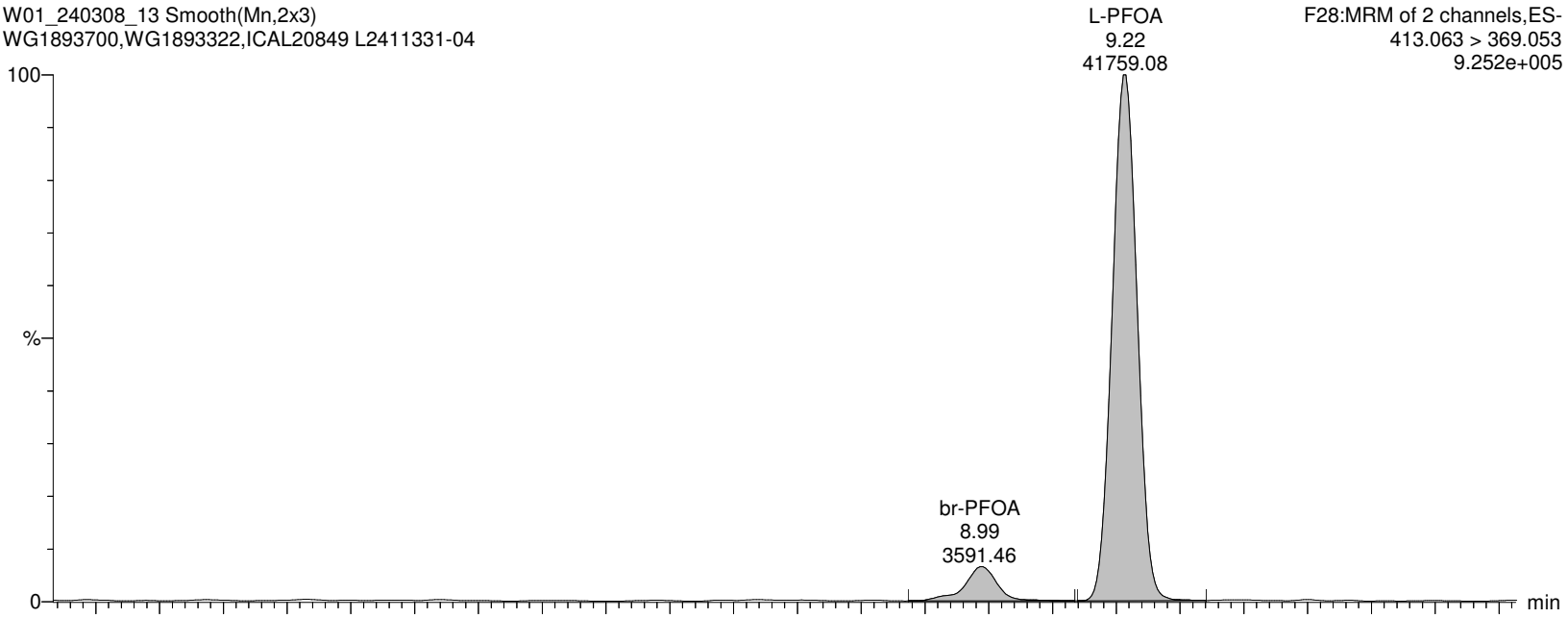

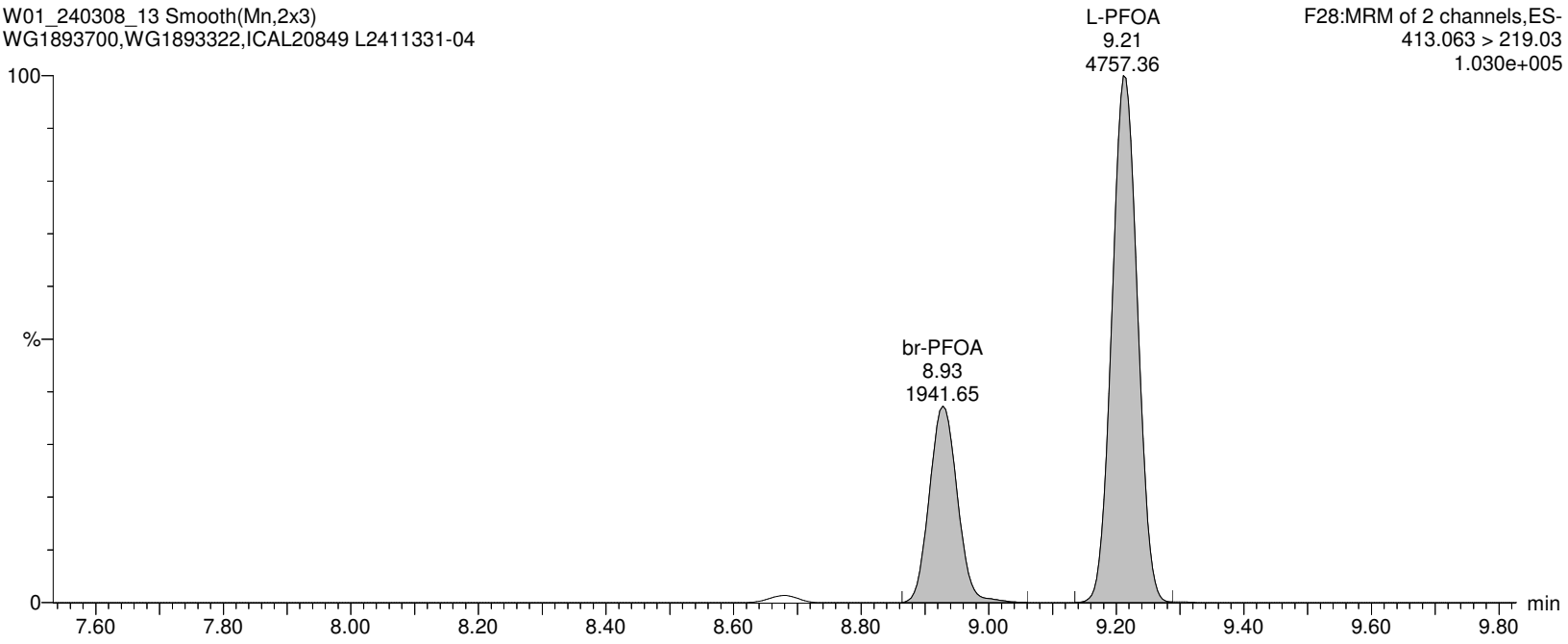

all concentration units in (ng/mL)

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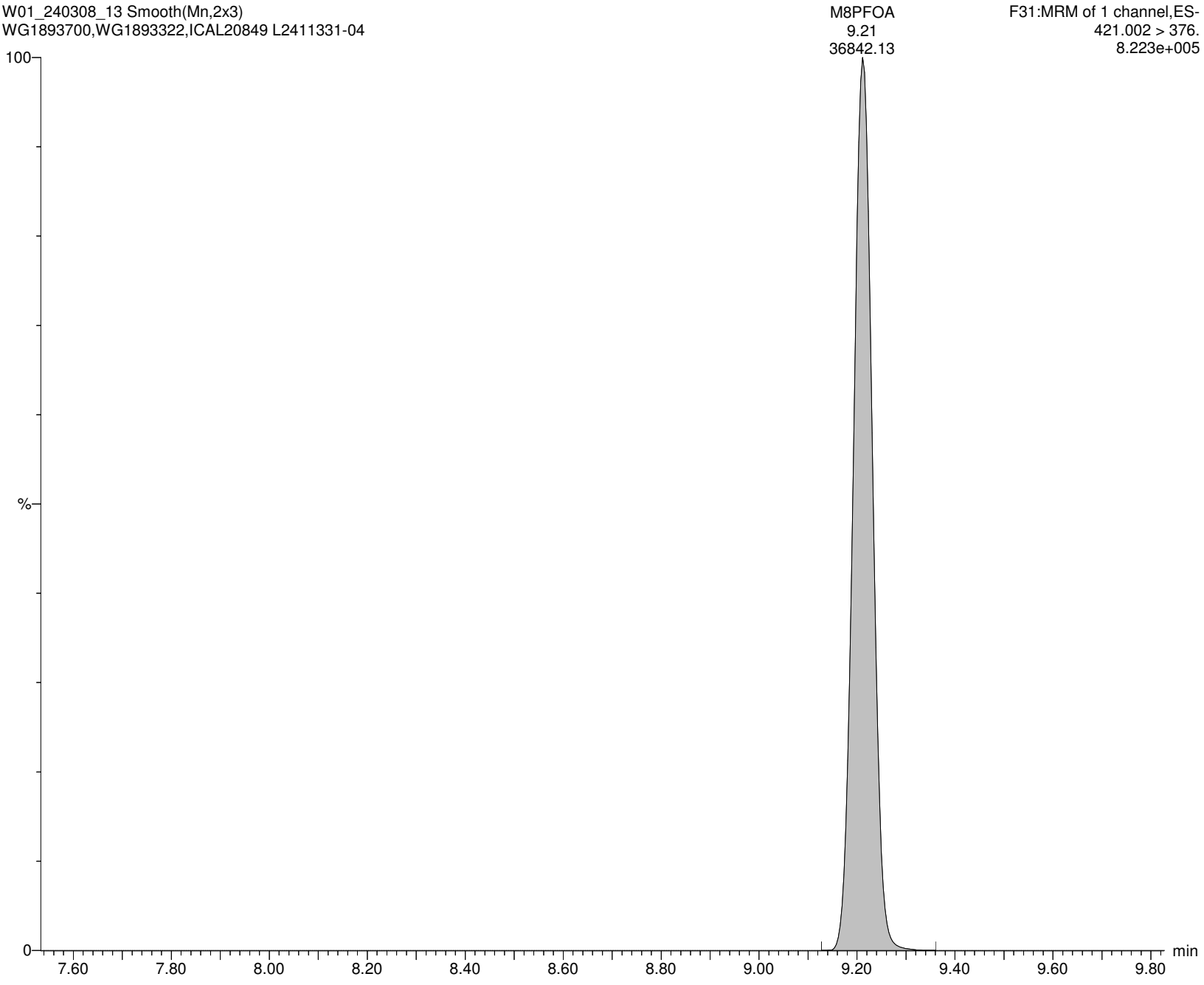

all concentration units in (ng/mL)

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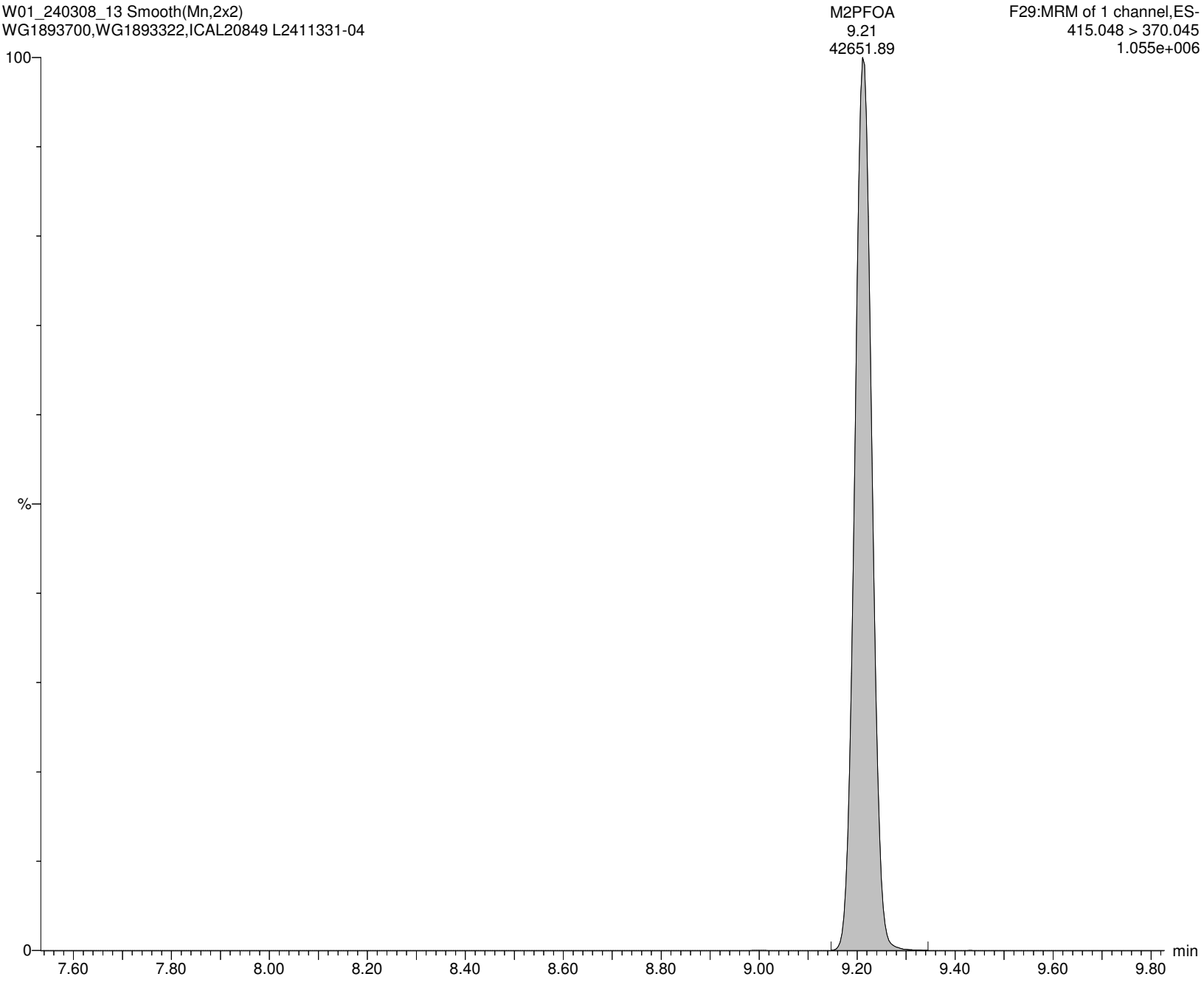

all concentration units in (ng/mL)

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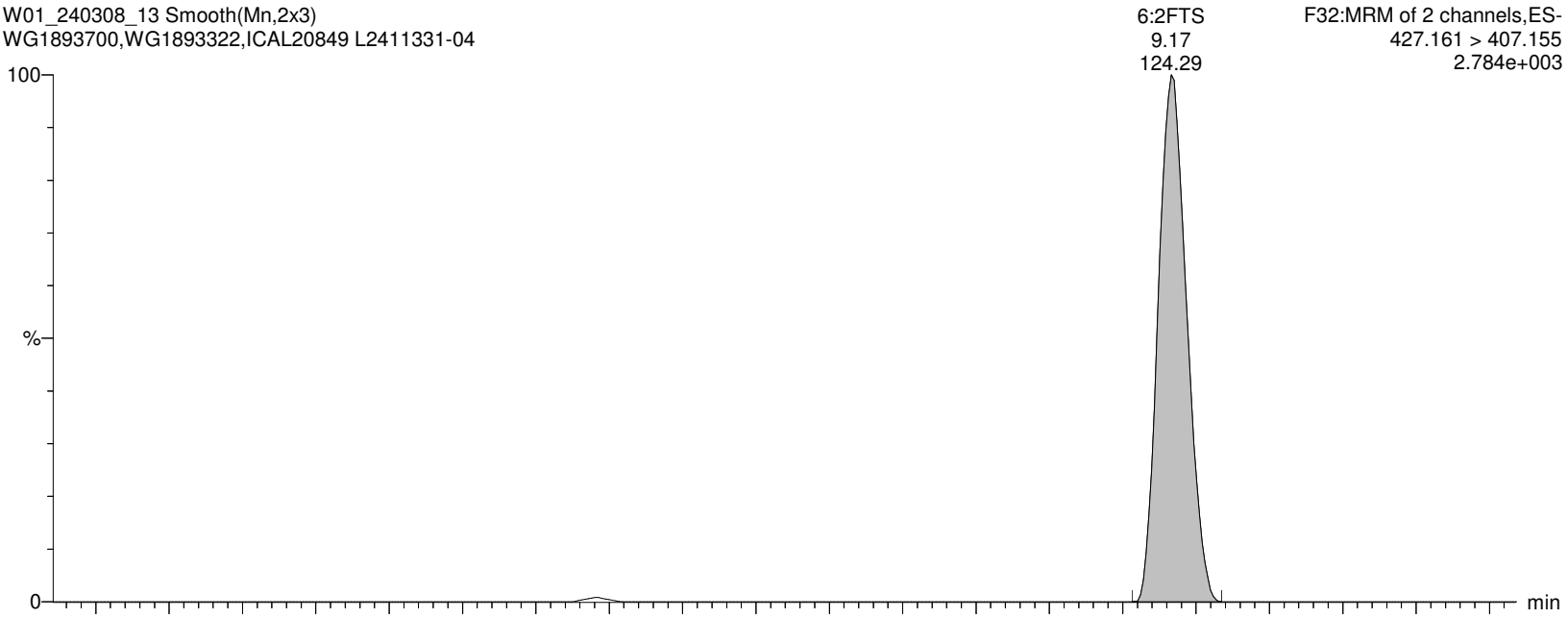

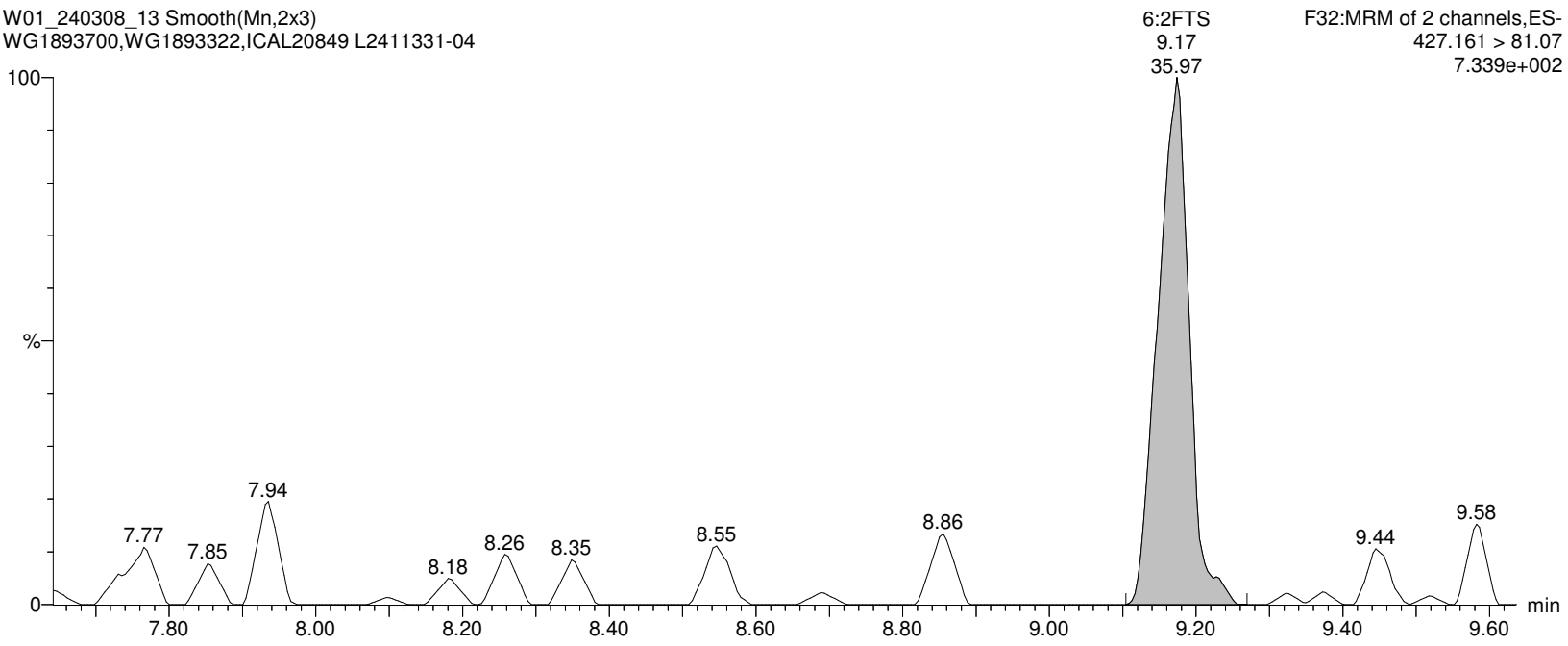

all concentration units in (ng/mL)

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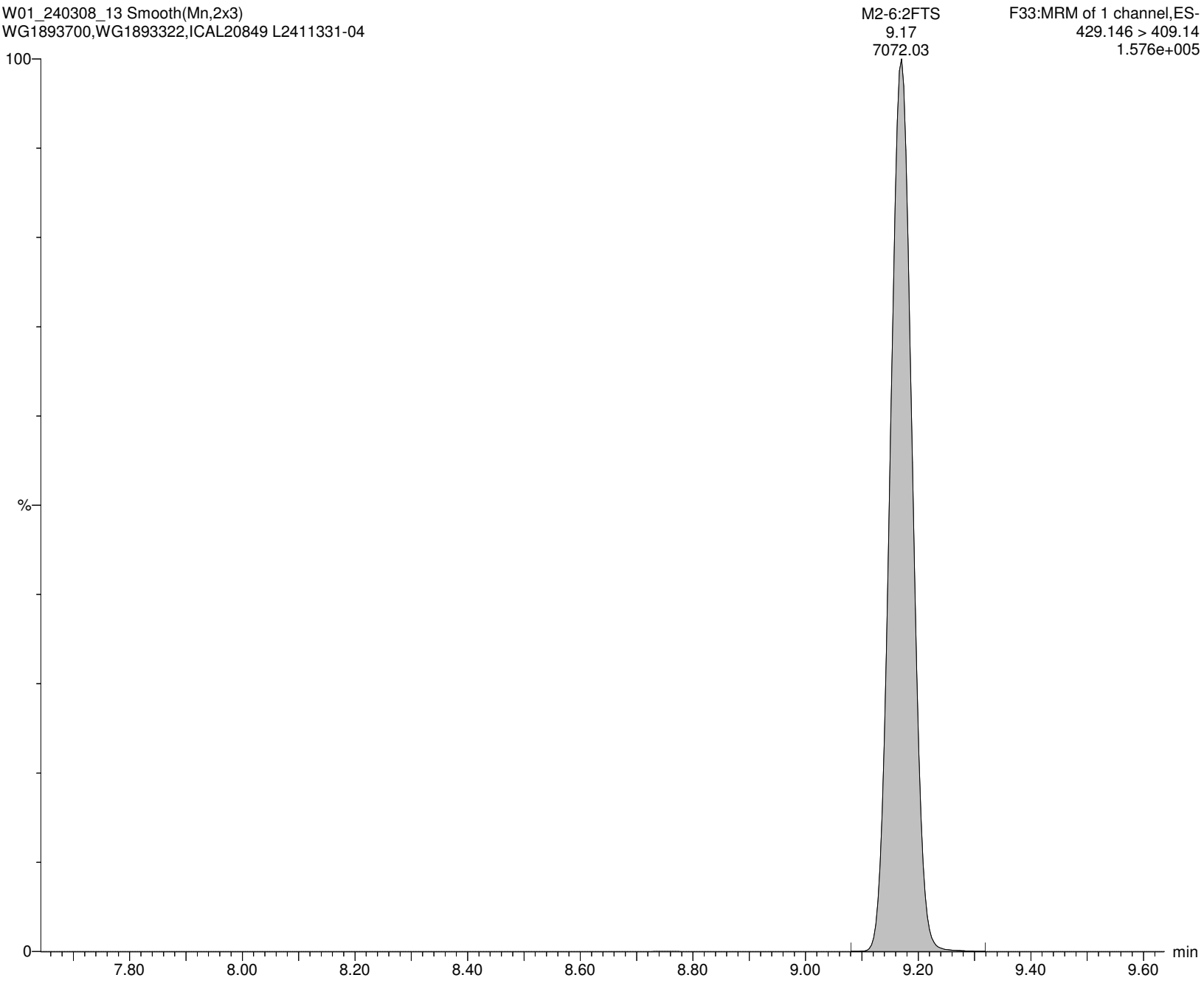
M2-6:2FTS



all concentration units in (ng/mL)

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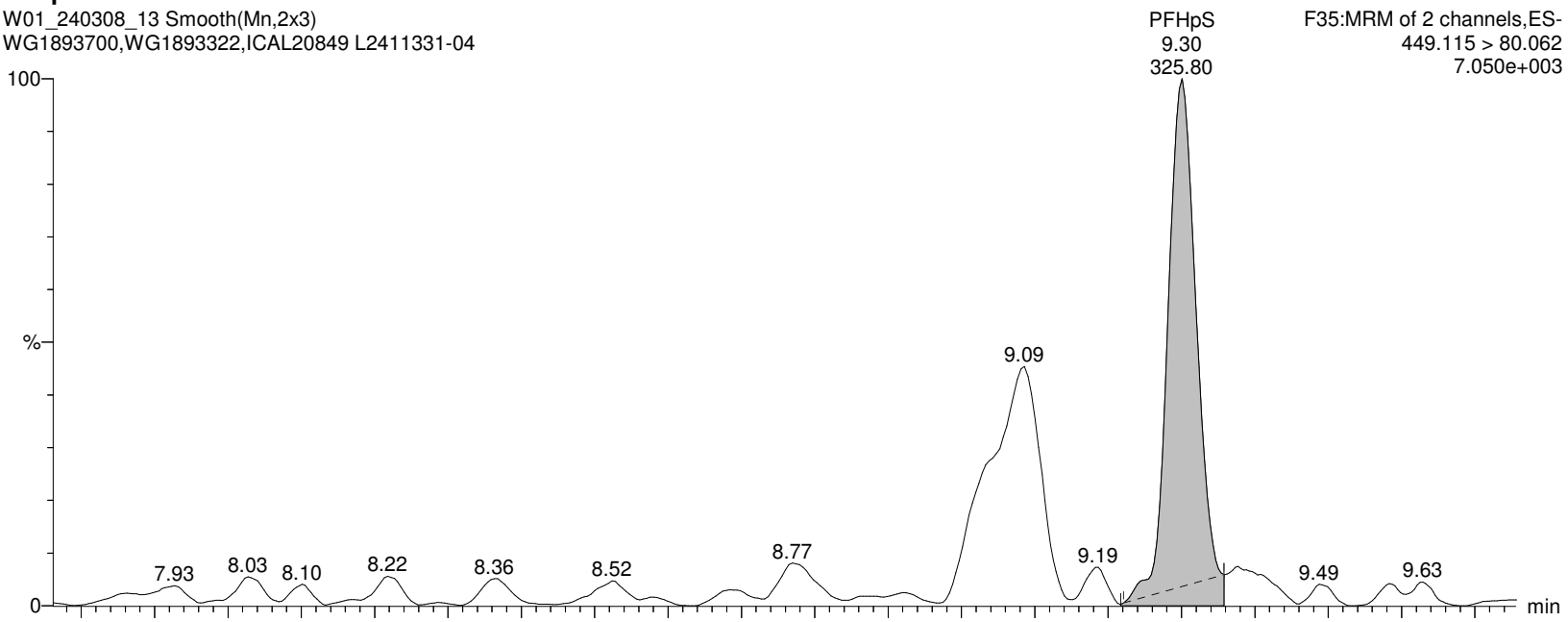

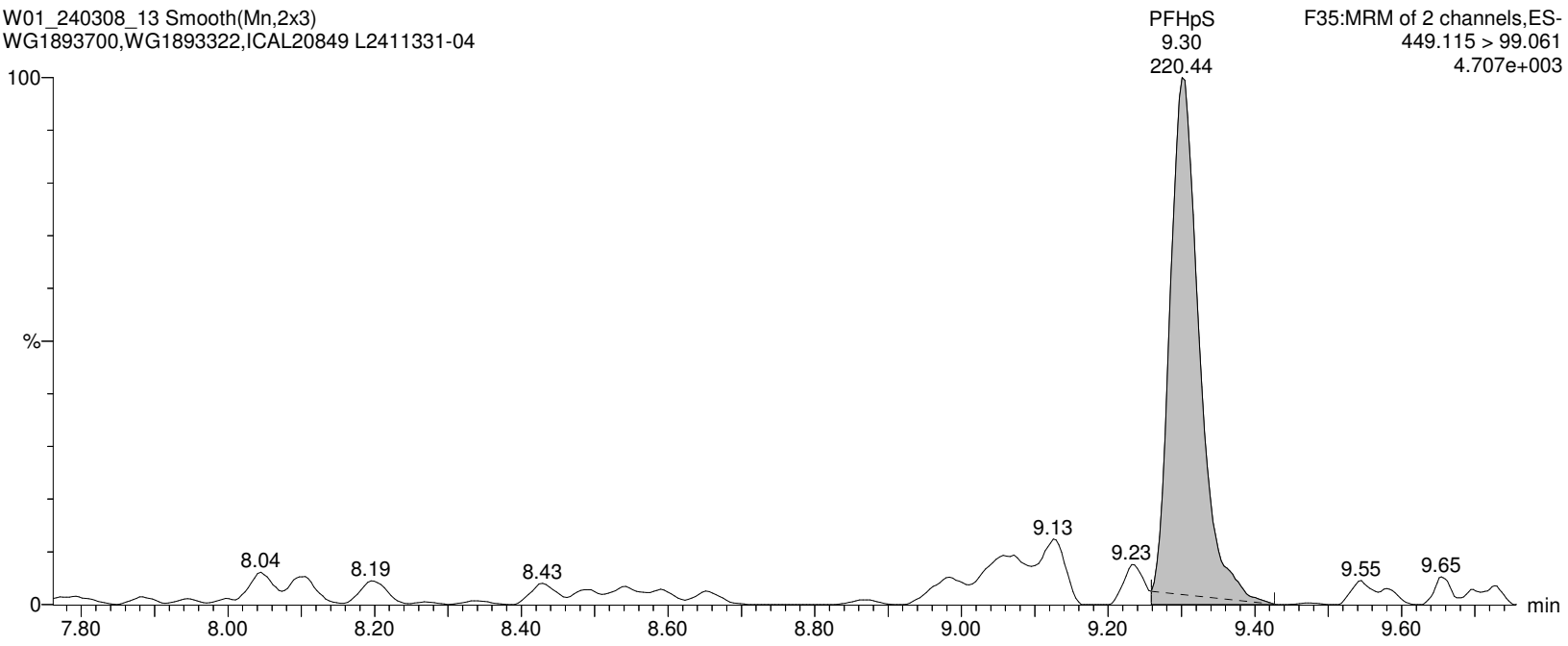

all concentration units in (ng/mL)

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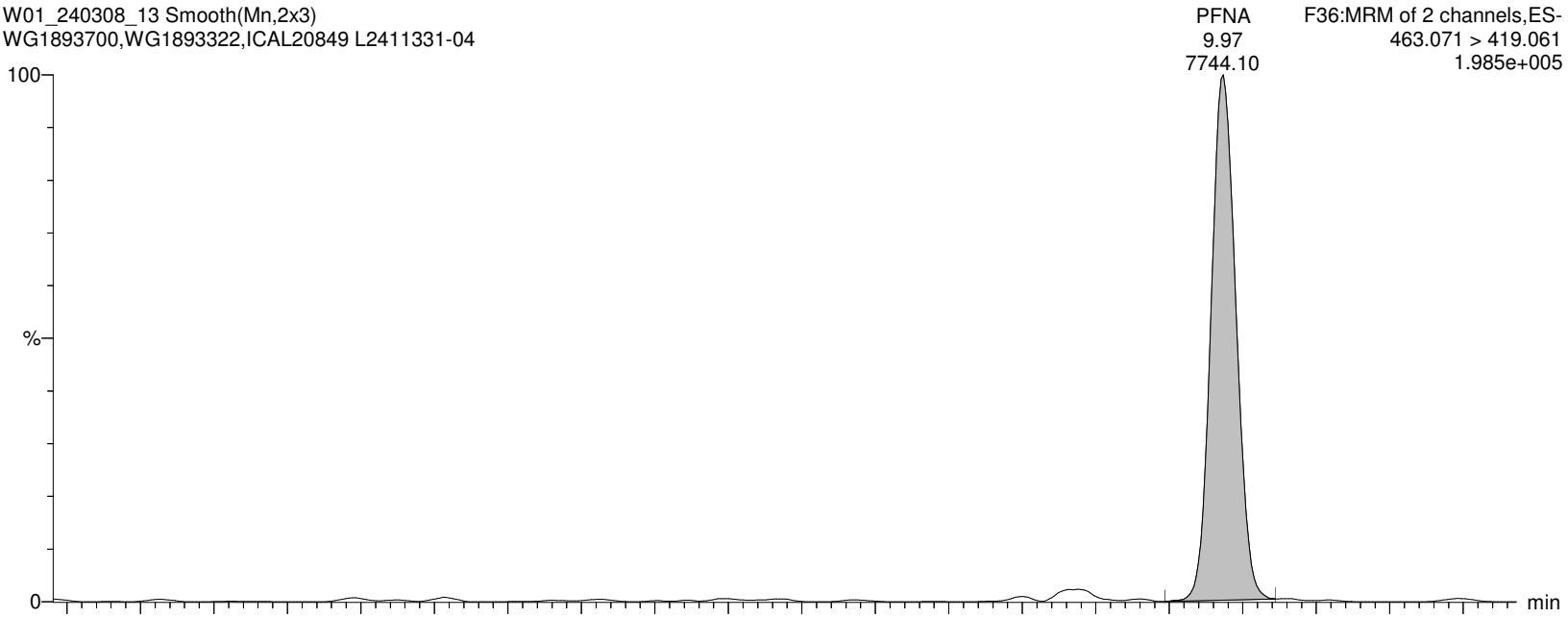

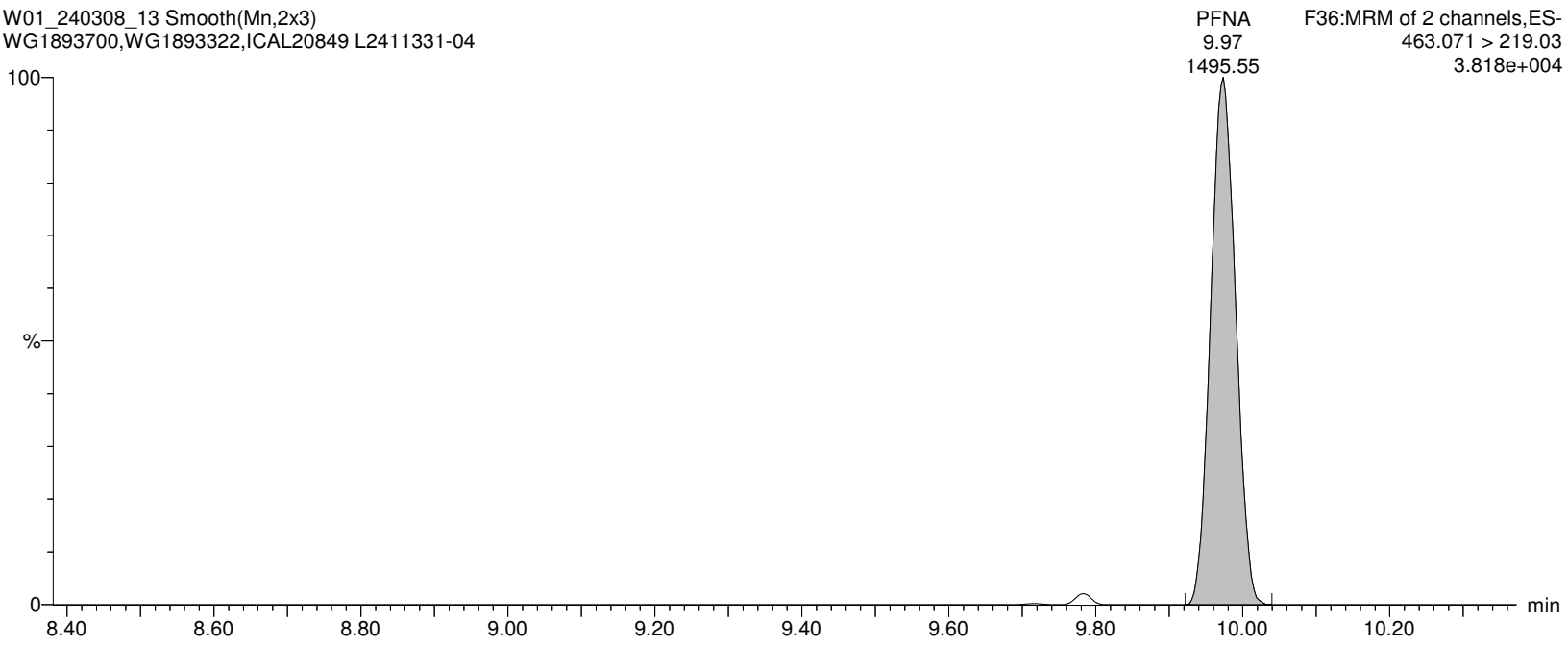

all concentration units in (ng/mL)

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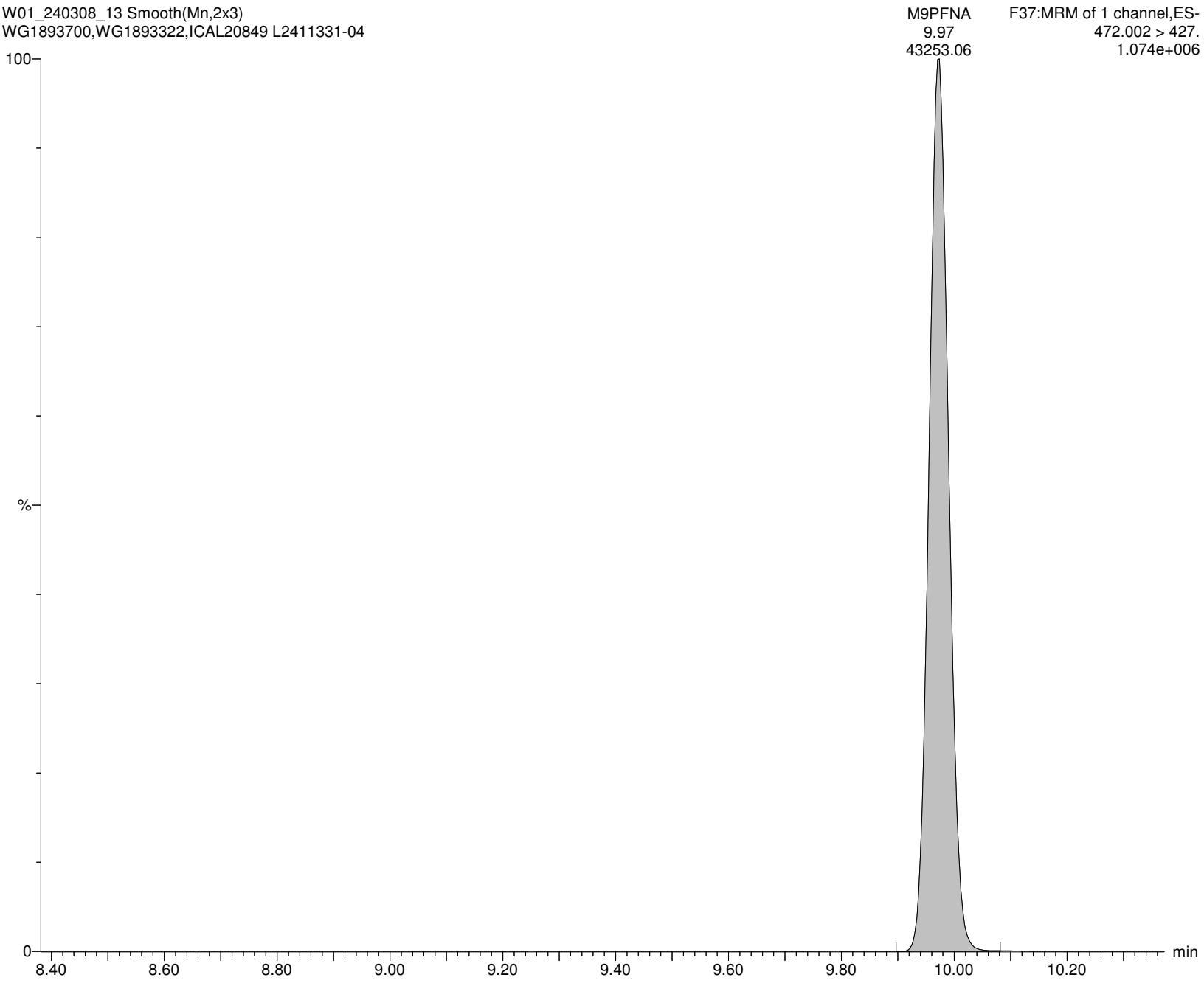

all concentration units in (ng/mL)

Alpha Analytical Inc.
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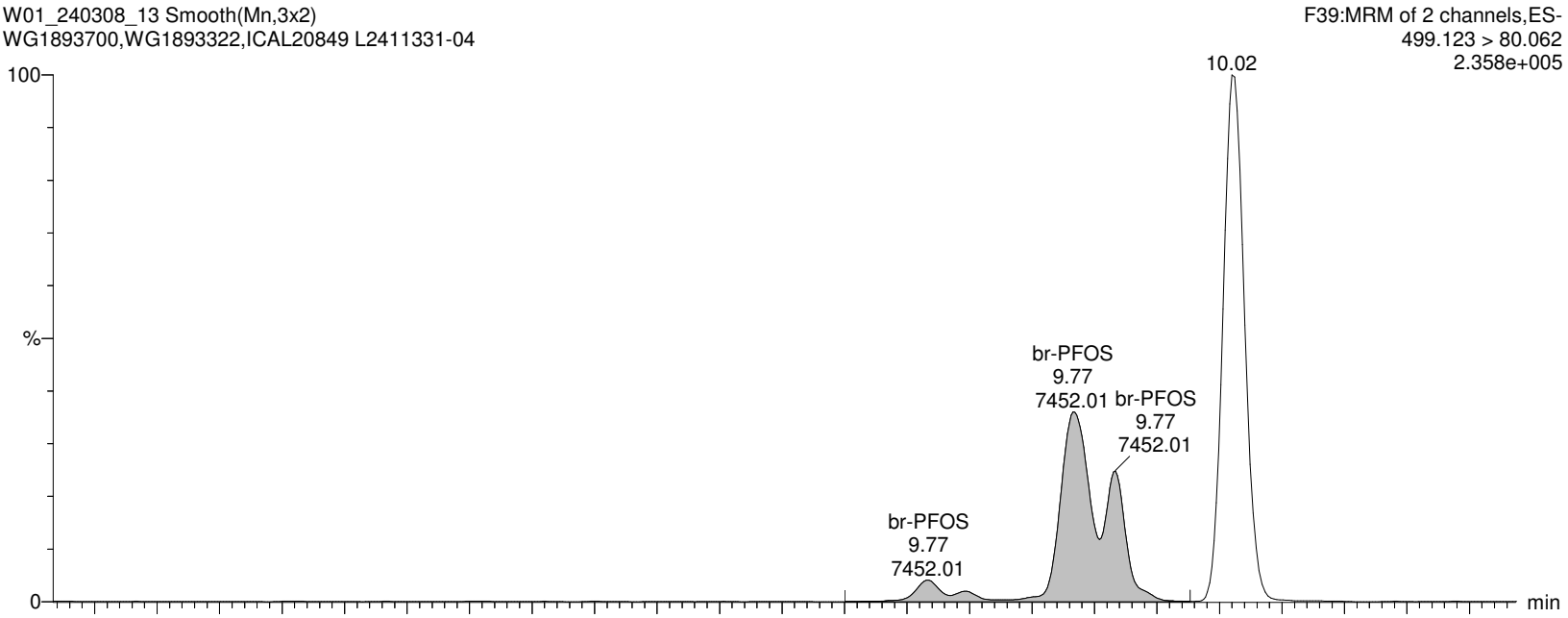

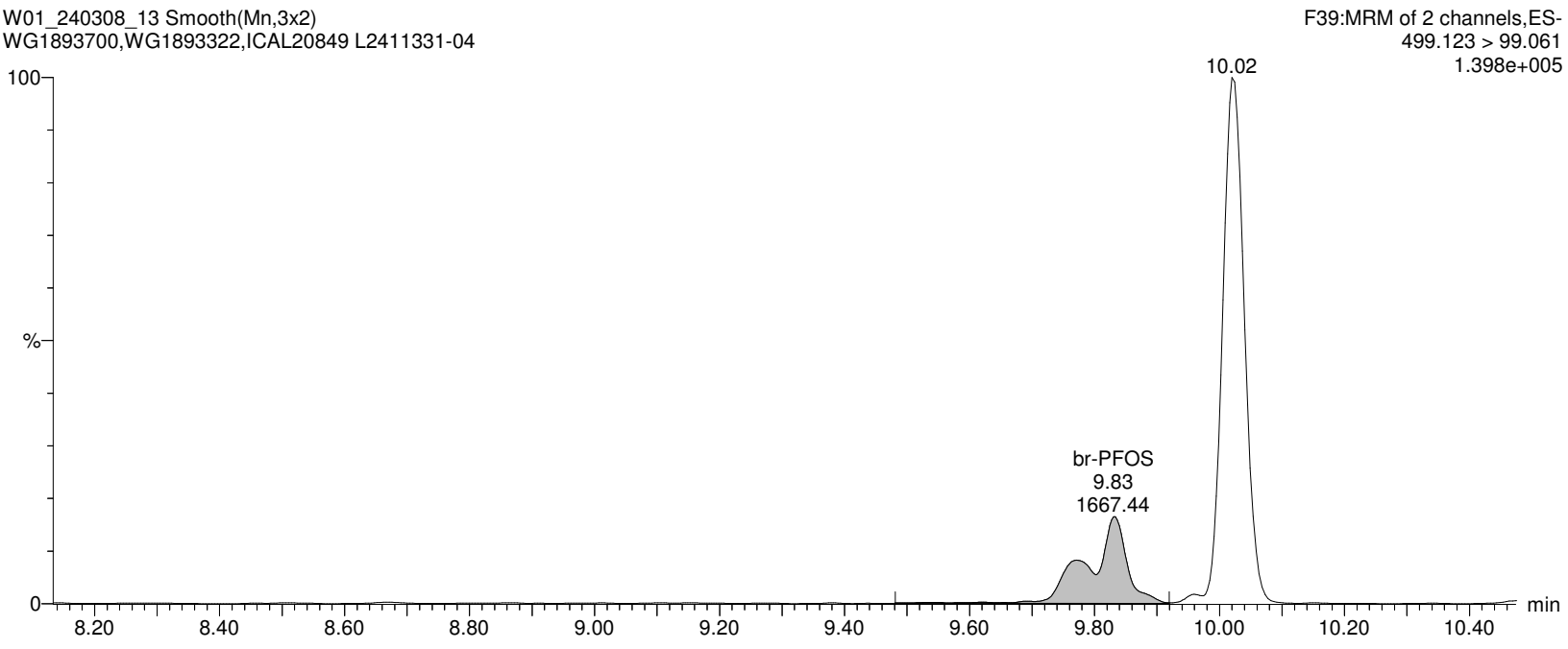

all concentration units in (ng/mL)

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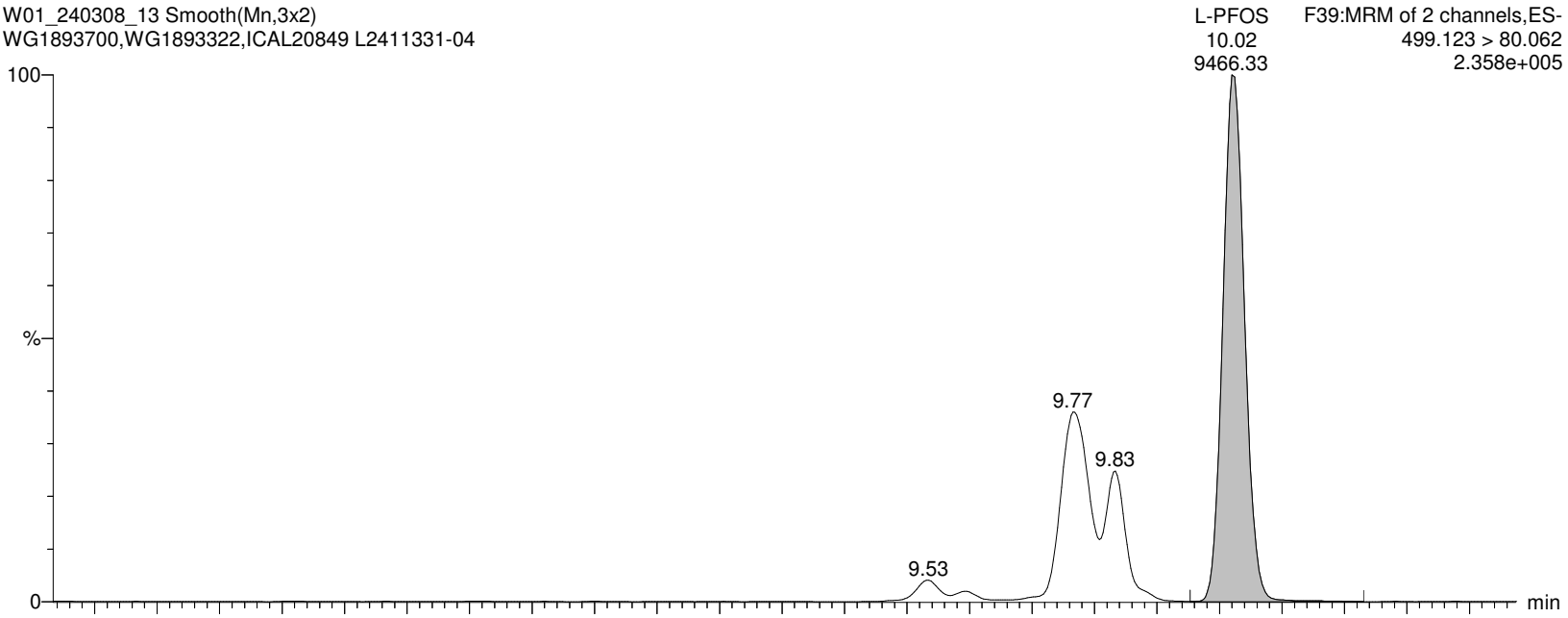
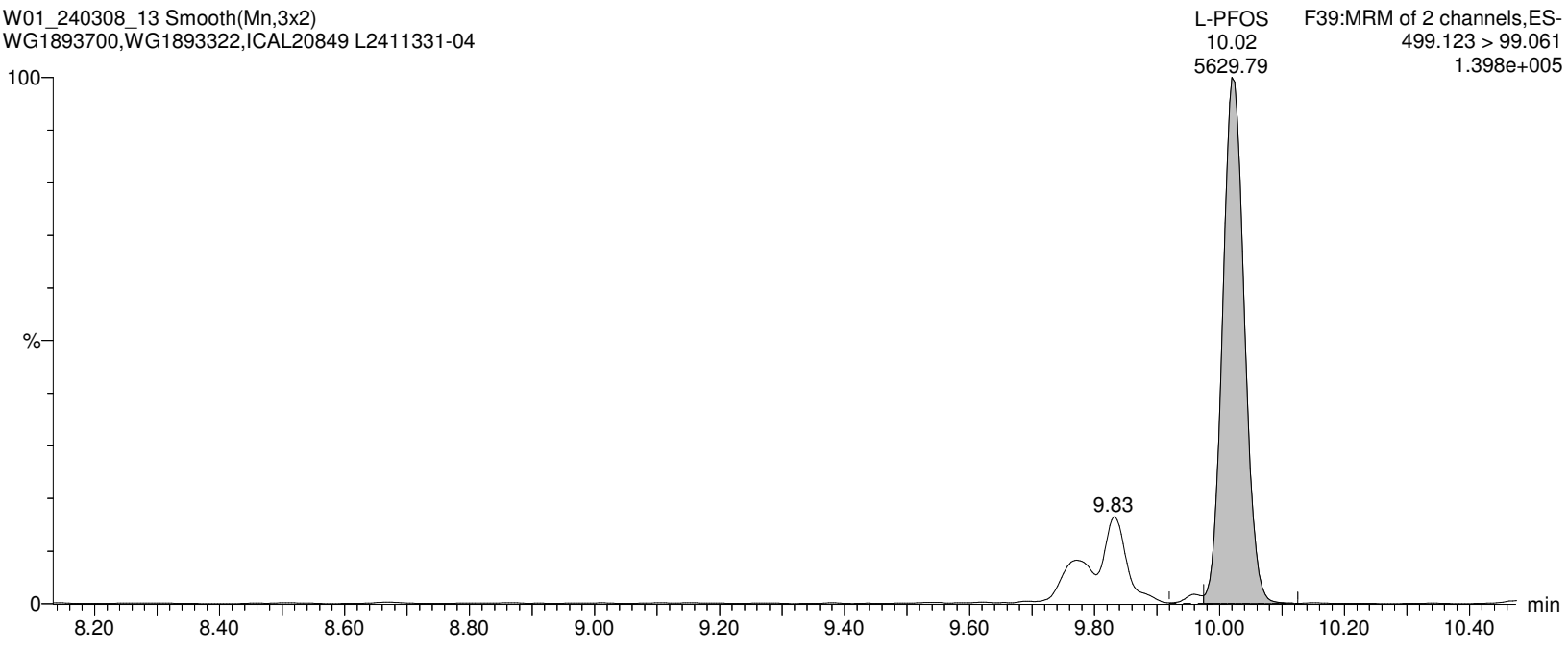
L-PFOS





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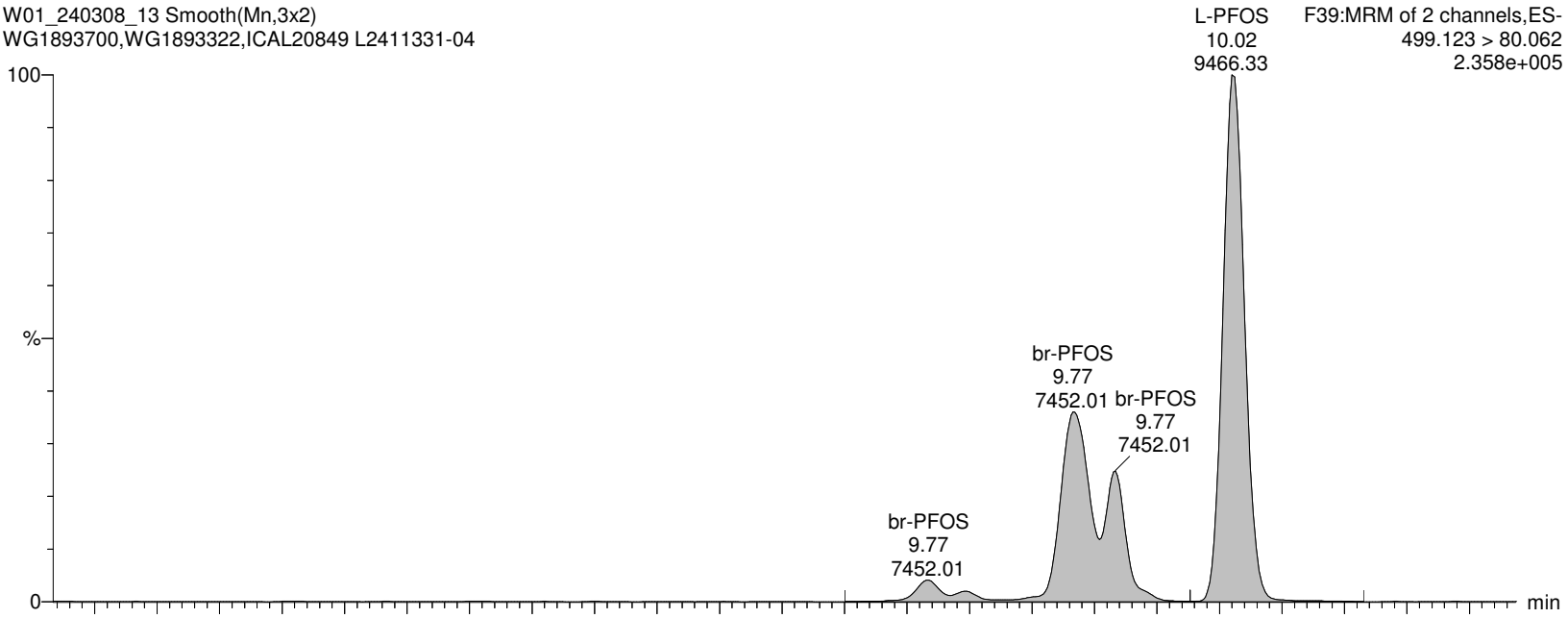

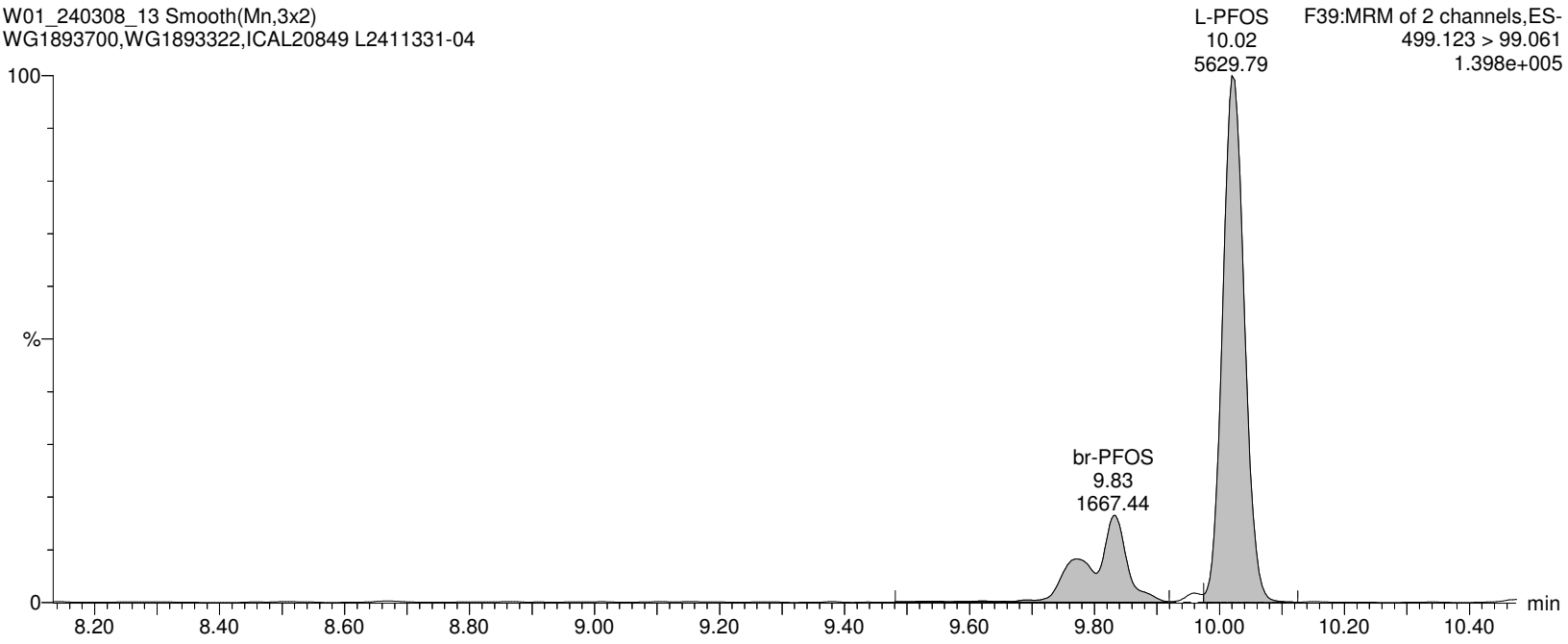

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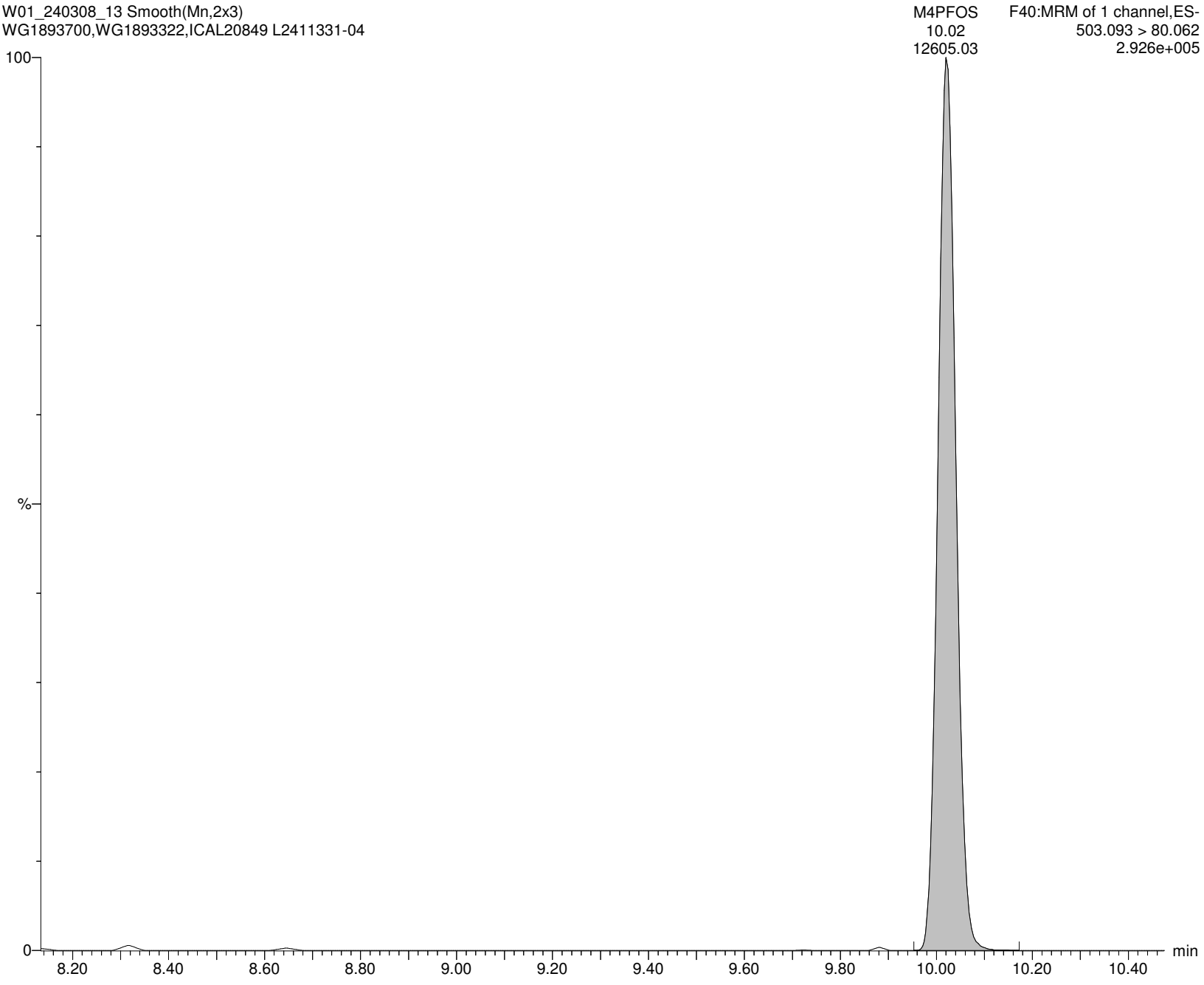
M4PFOS



all concentration units in (ng/mL)

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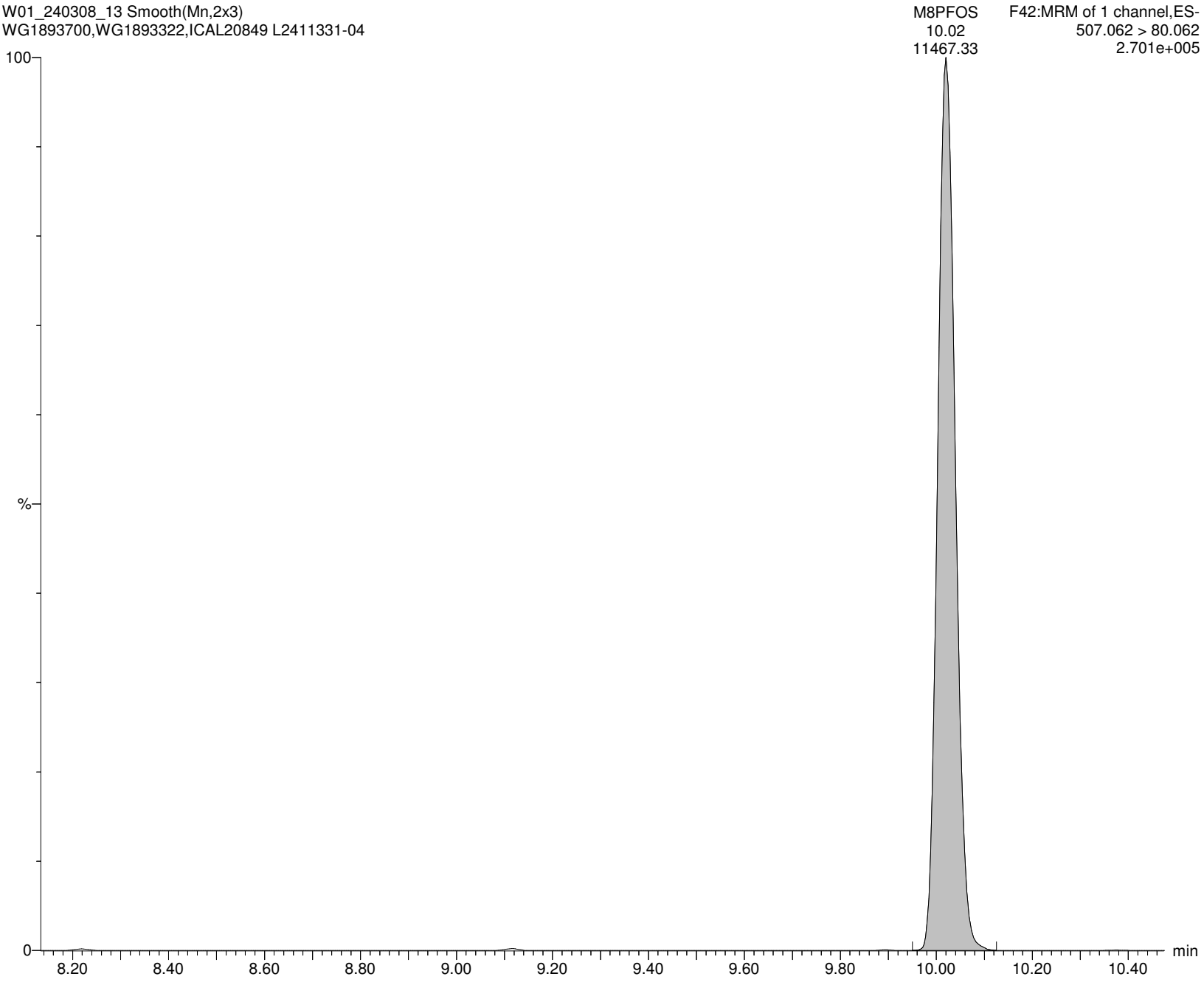

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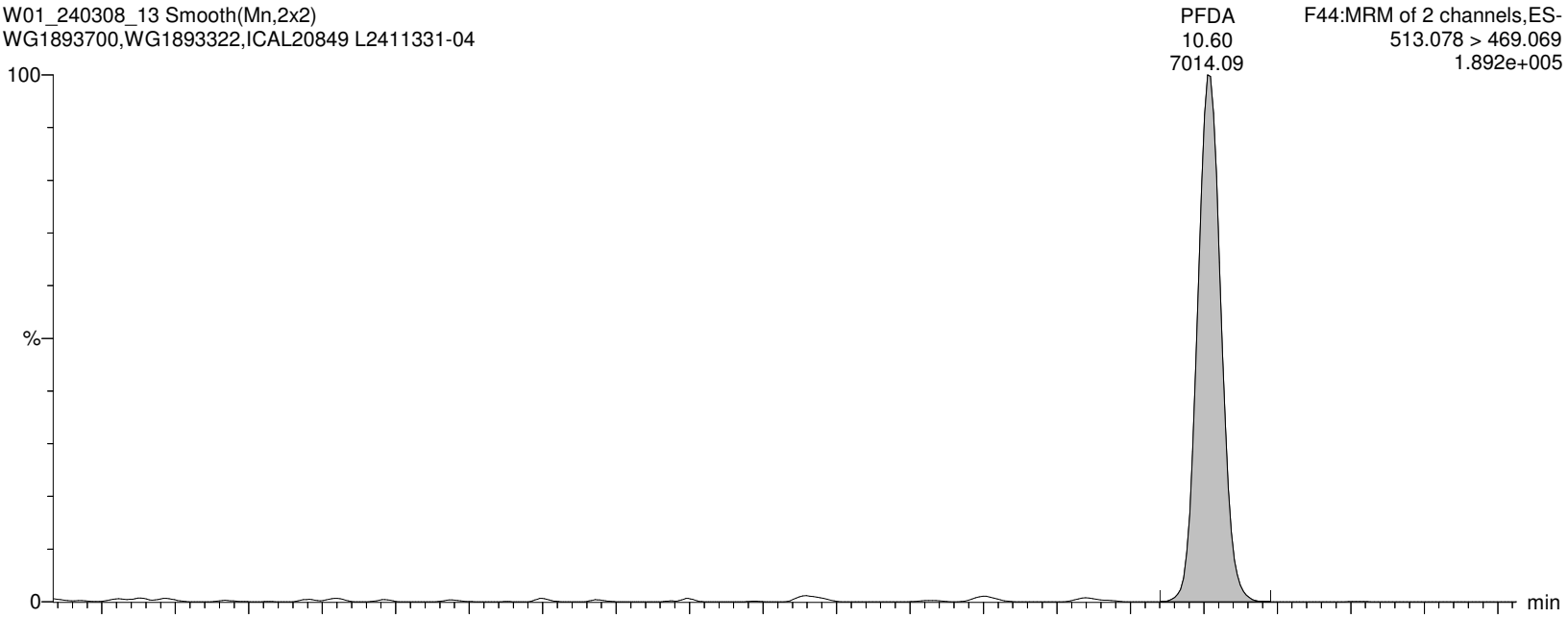

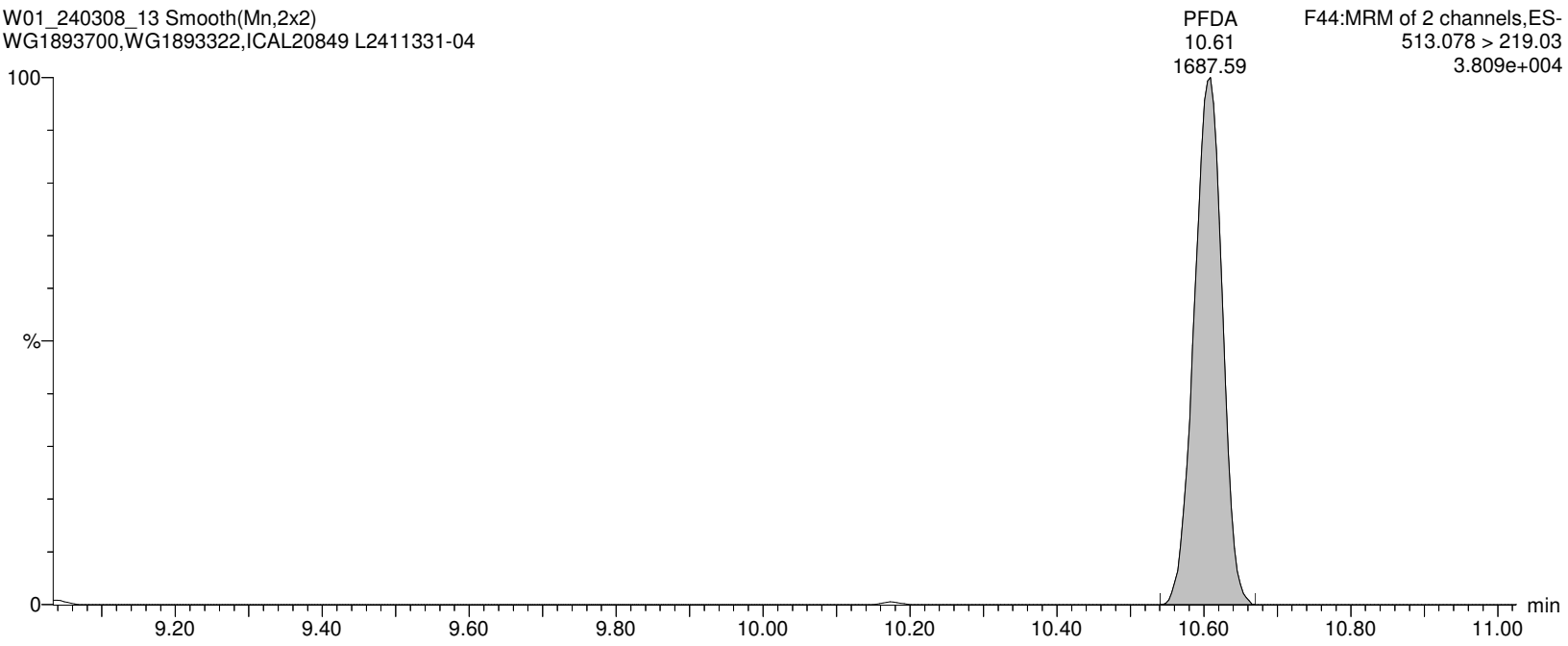

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:44 Eastern Standard Time

Name: W01_240308_13
ID: L2411331-04
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,8
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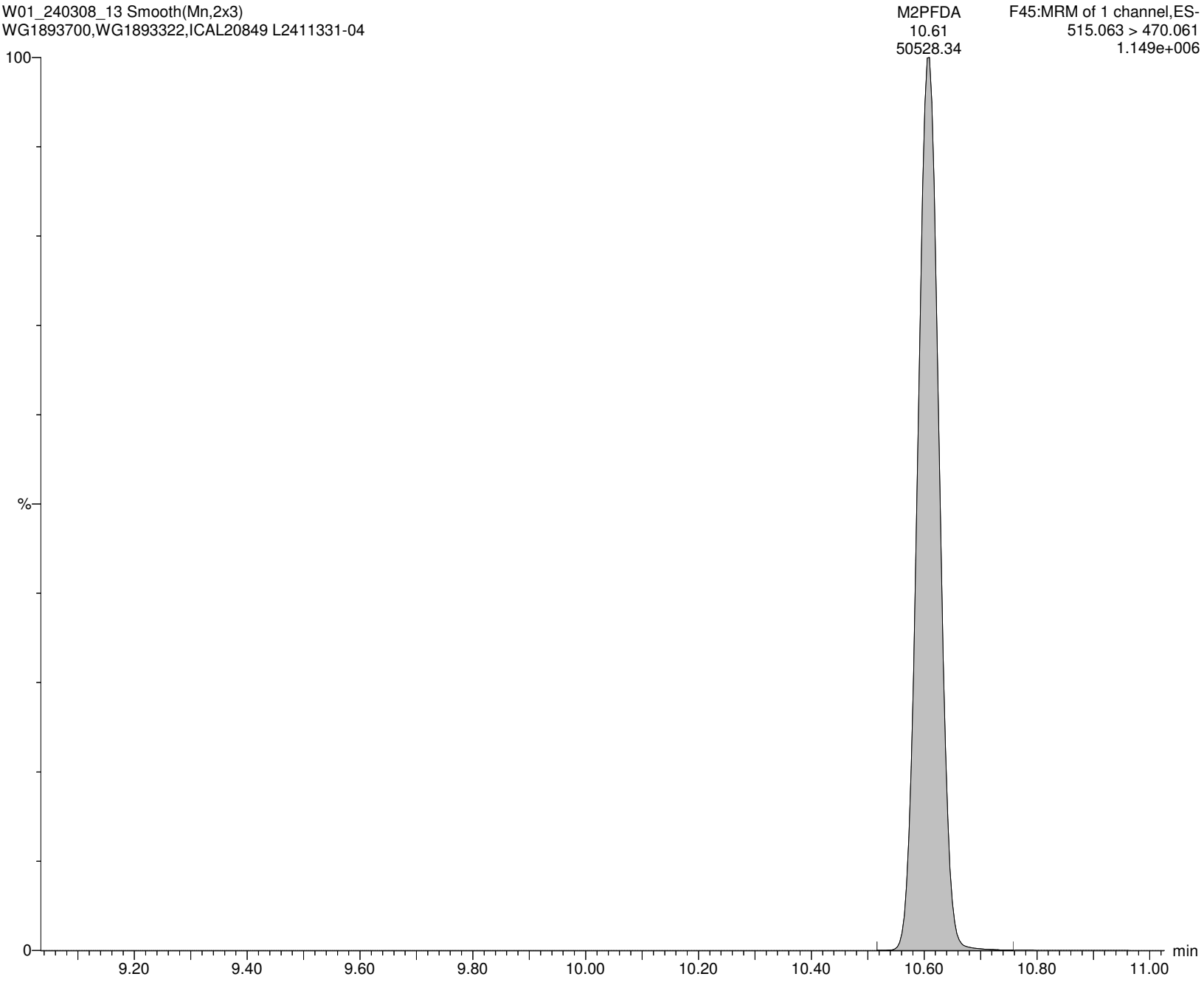

all concentration units in (ng/mL)

Alpha Analytical Inc.
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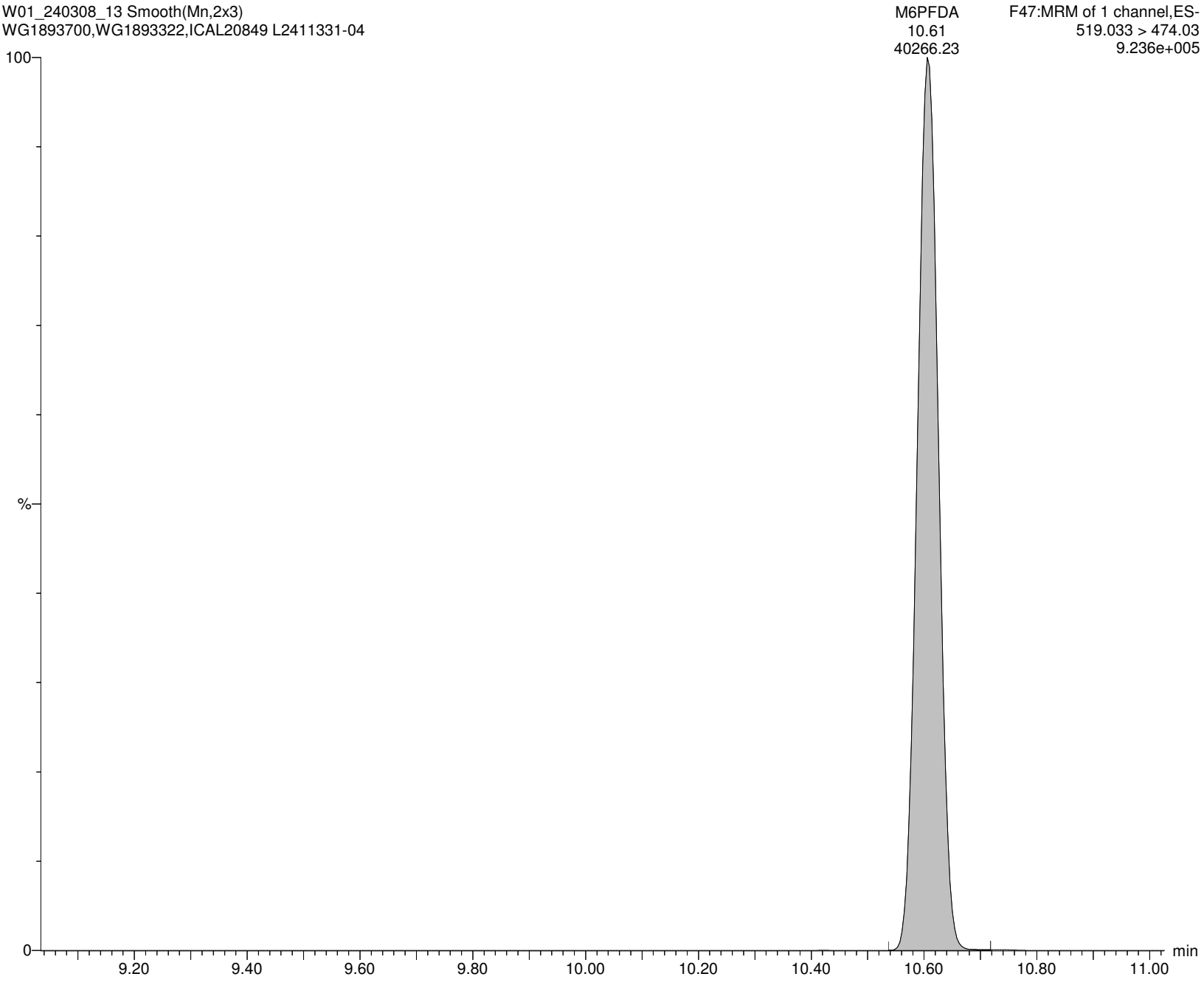

all concentration units in (ng/mL)

Alpha Analytical Inc.
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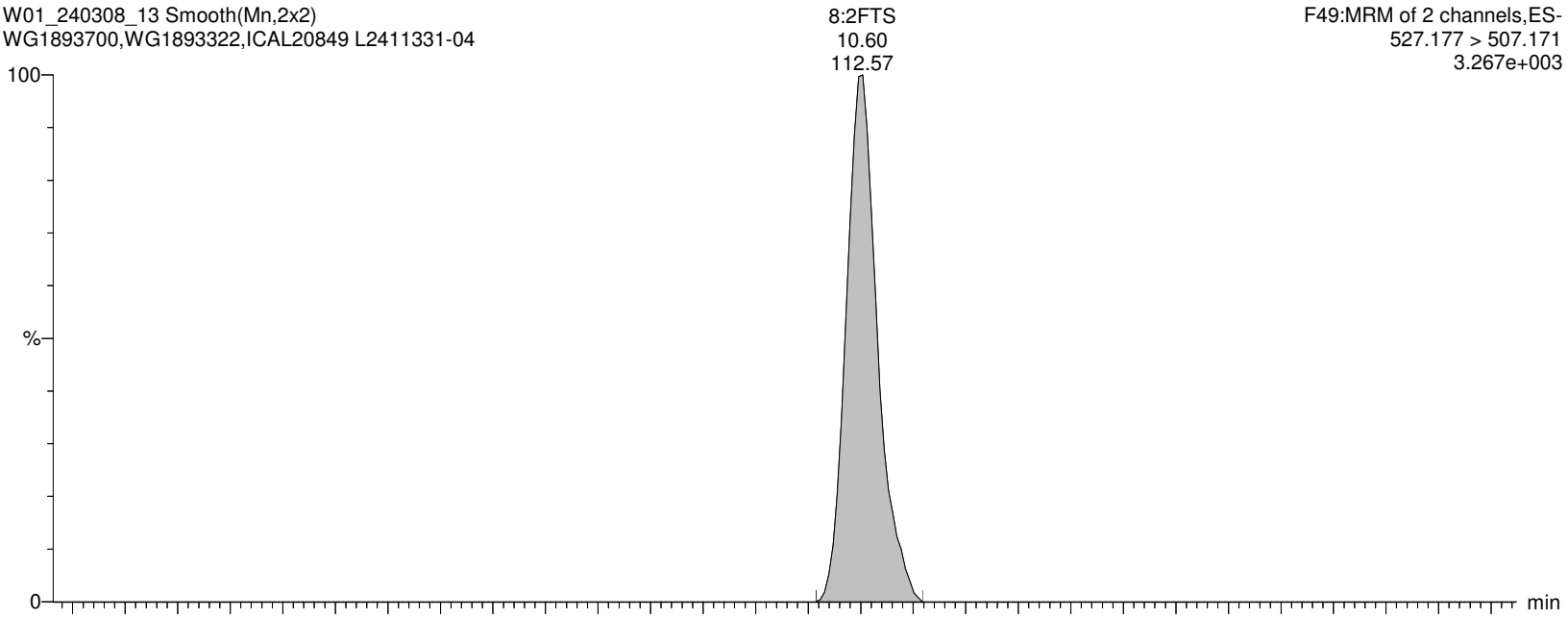

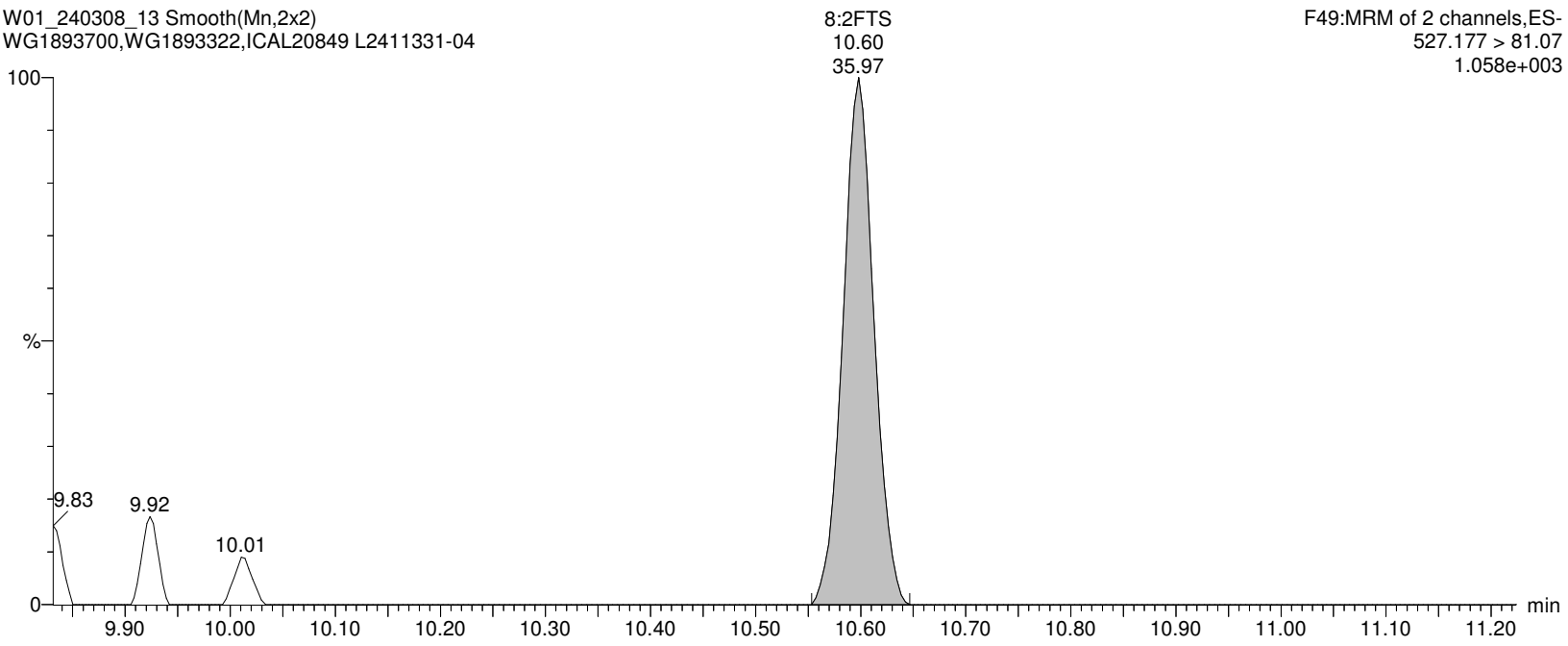

all concentration units in (ng/mL)

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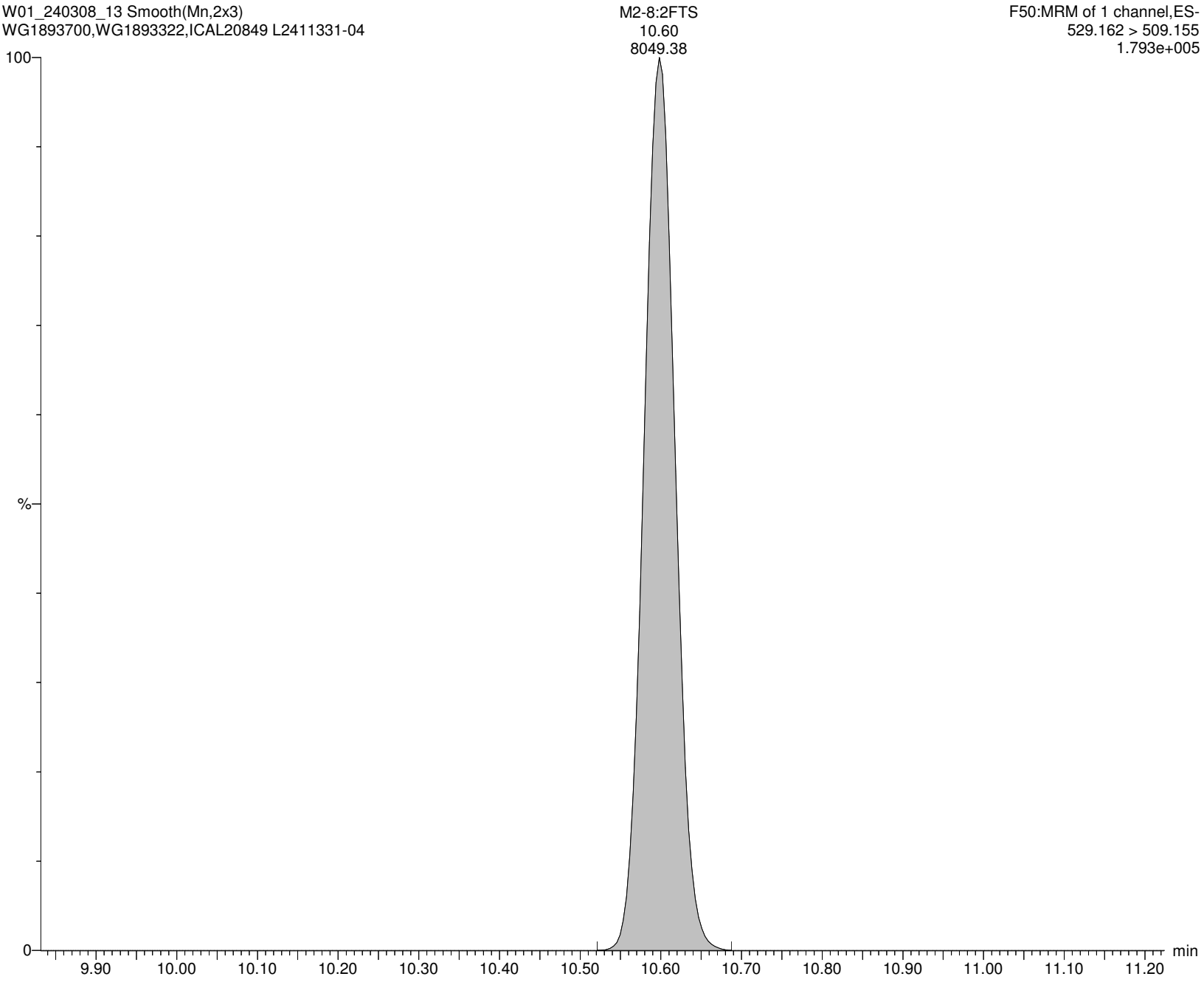

all concentration units in (ng/mL)

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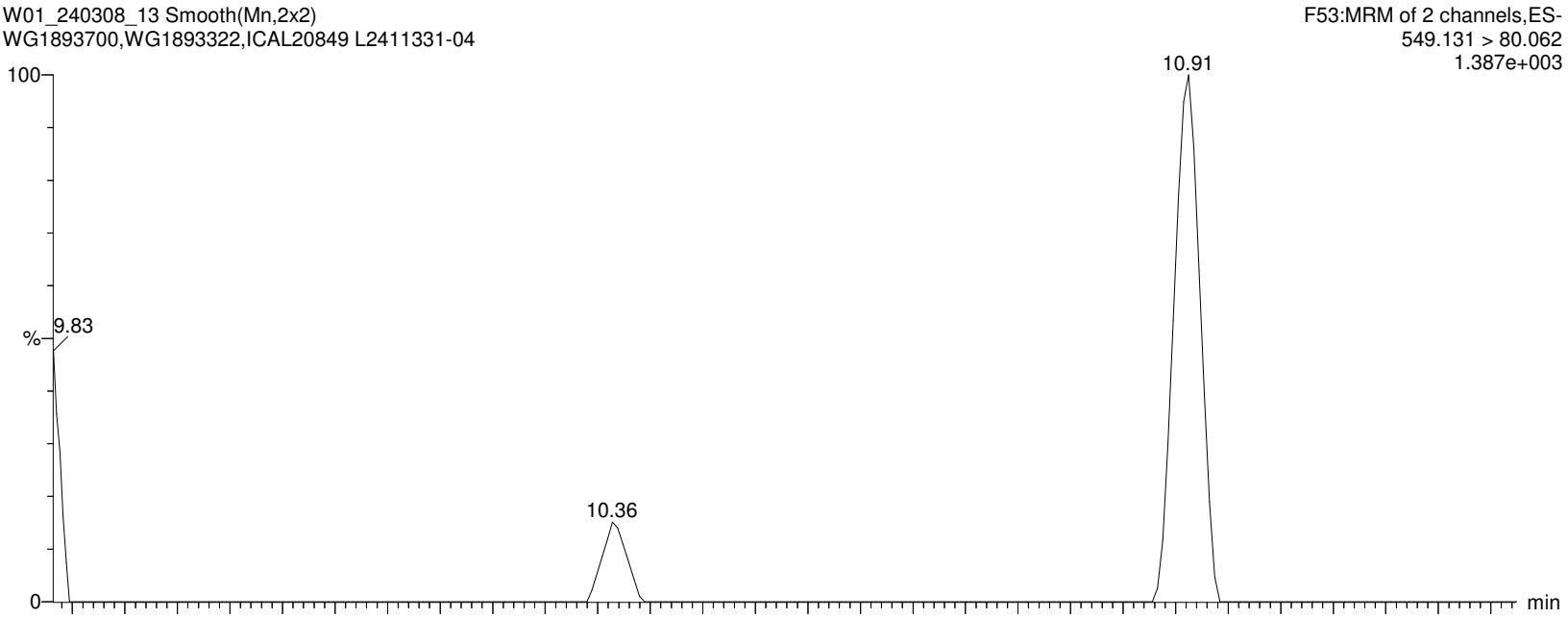

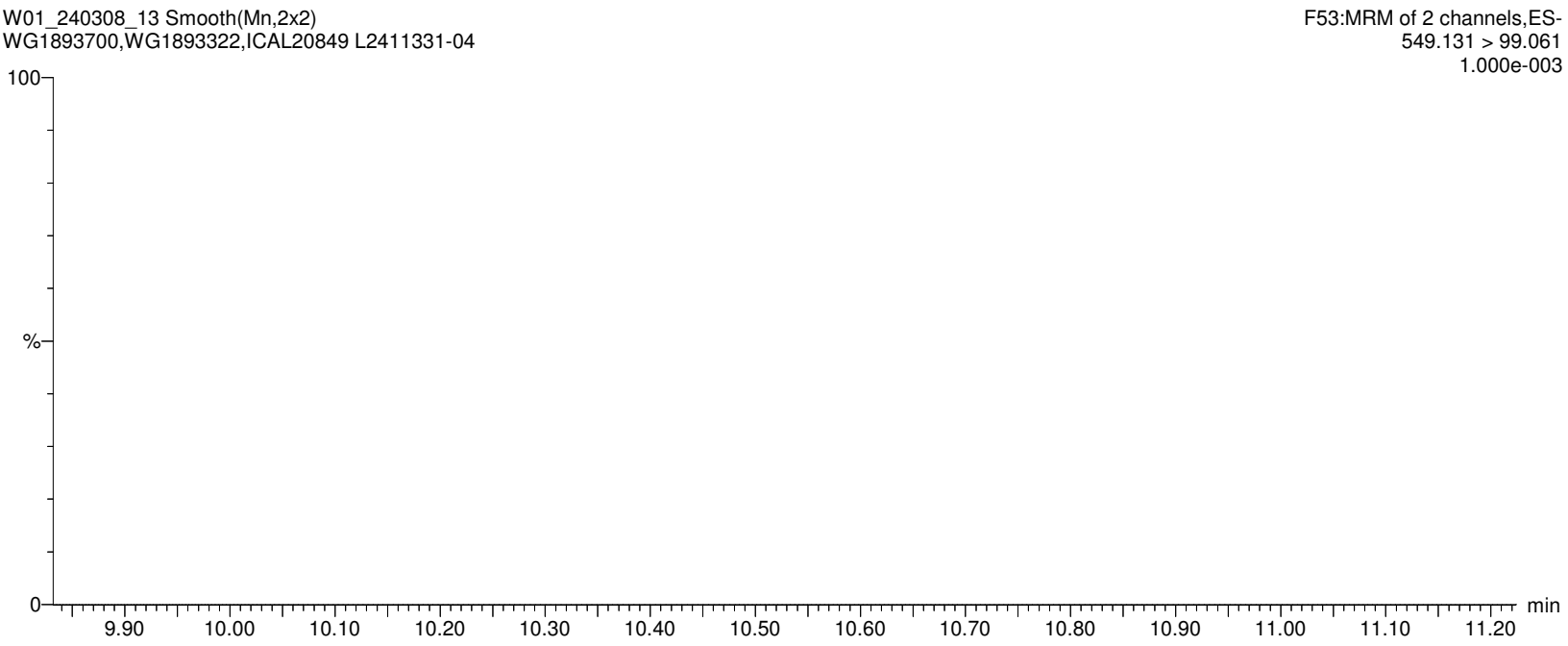

all concentration units in (ng/mL)

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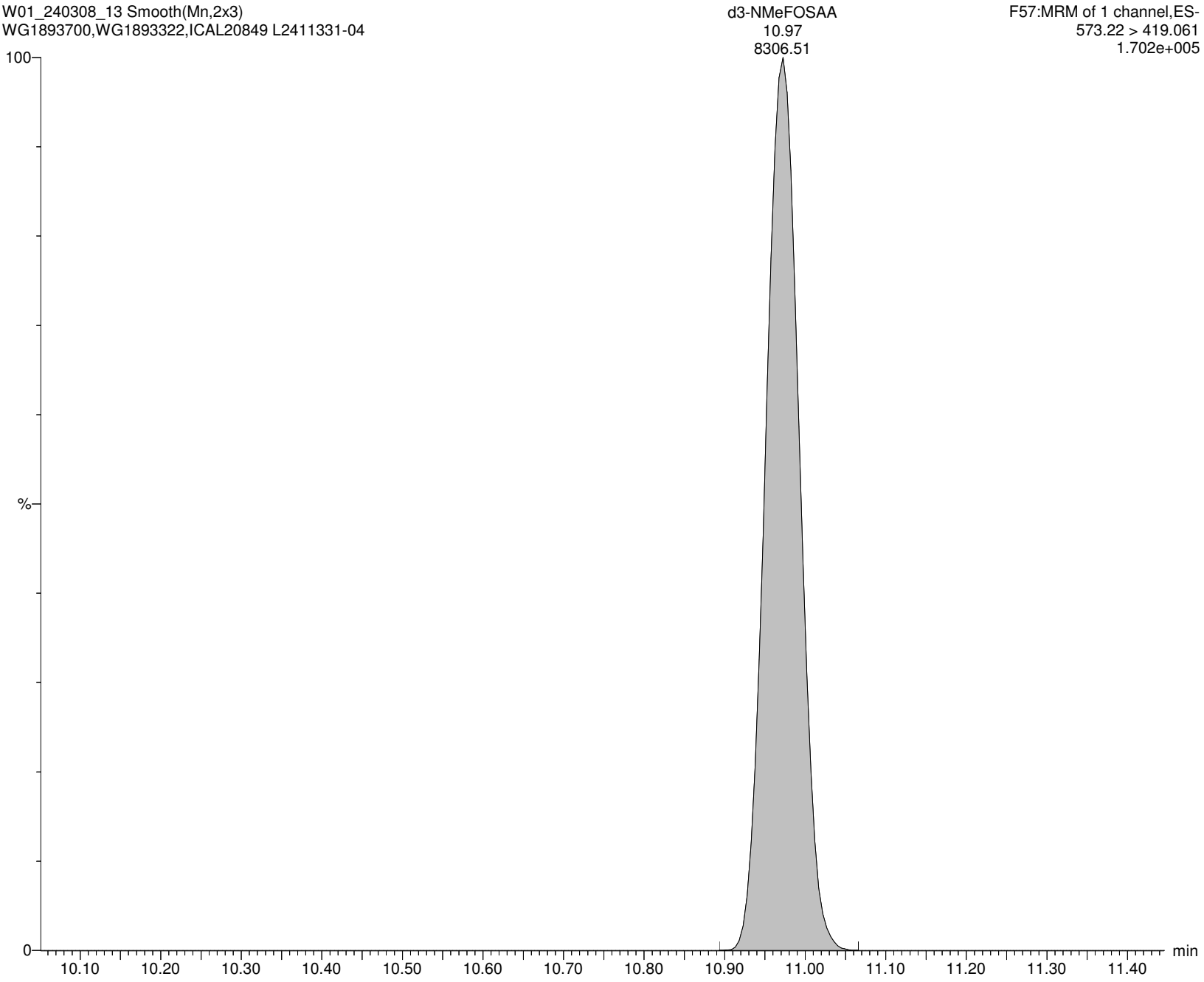
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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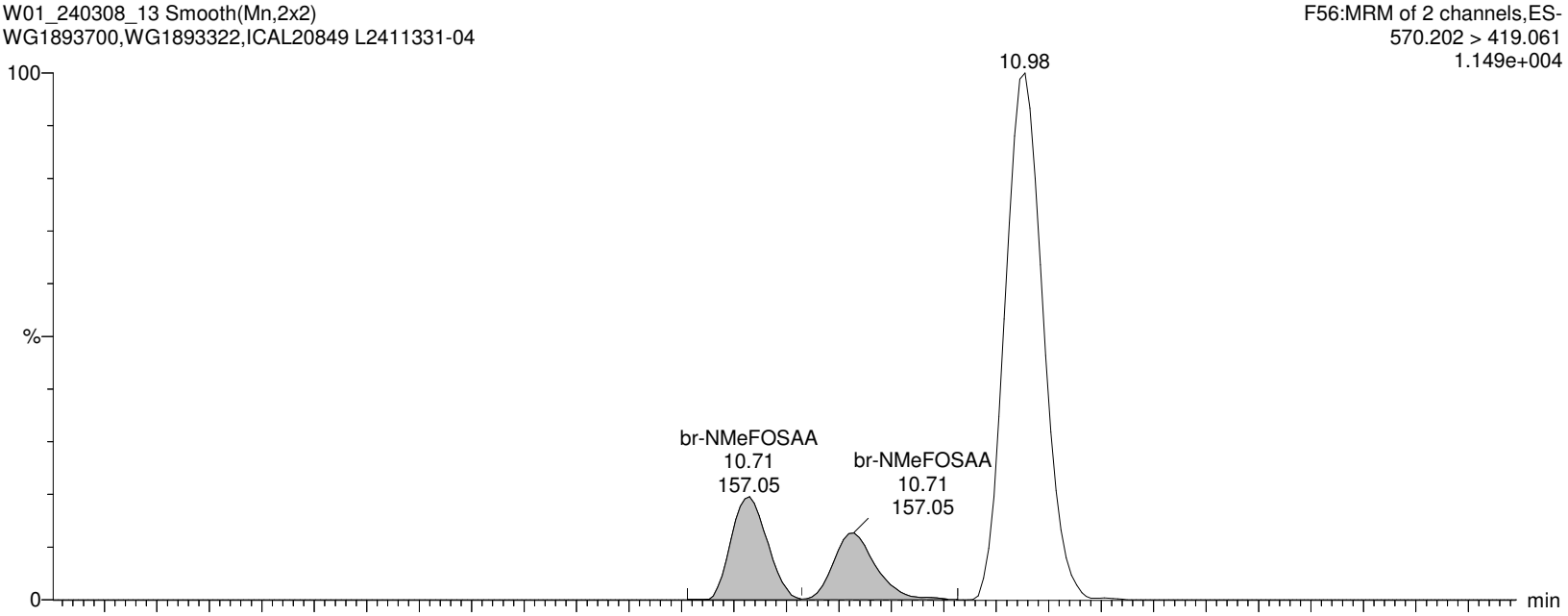

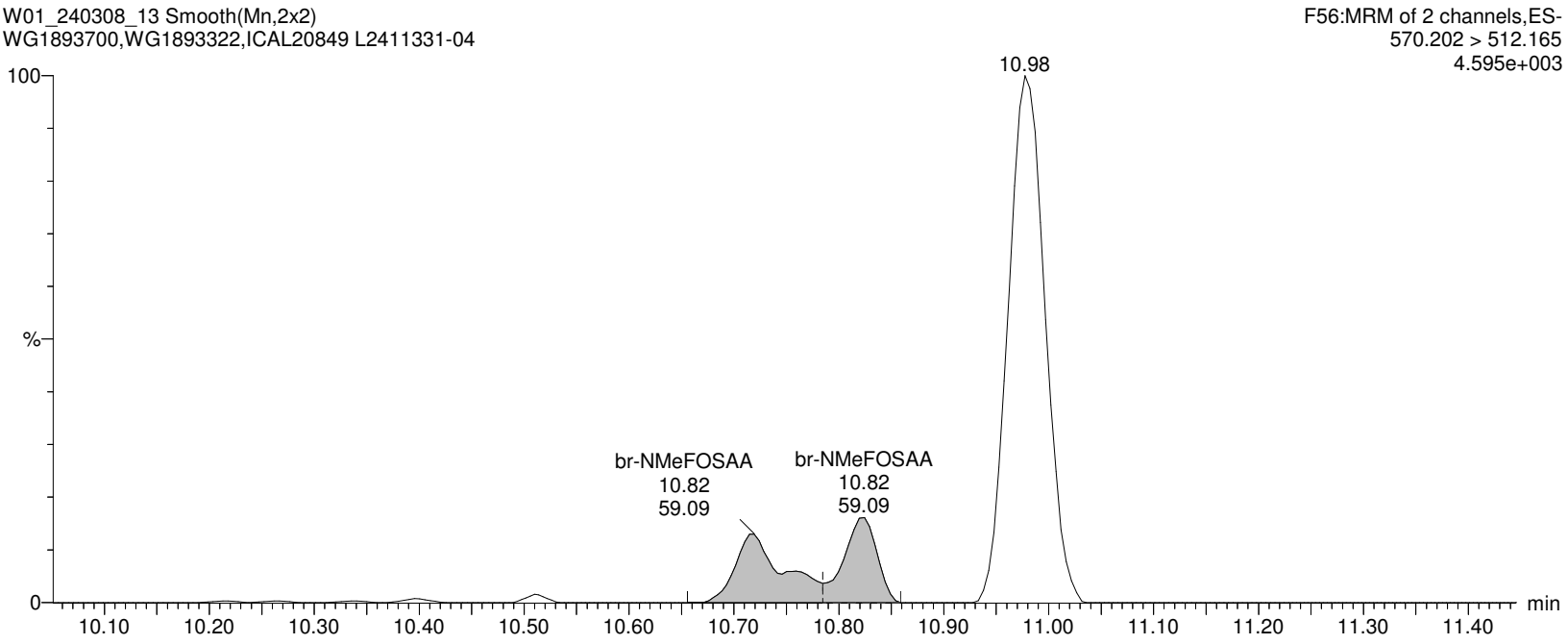

all concentration units in (ng/mL)

Alpha Analytical Inc.
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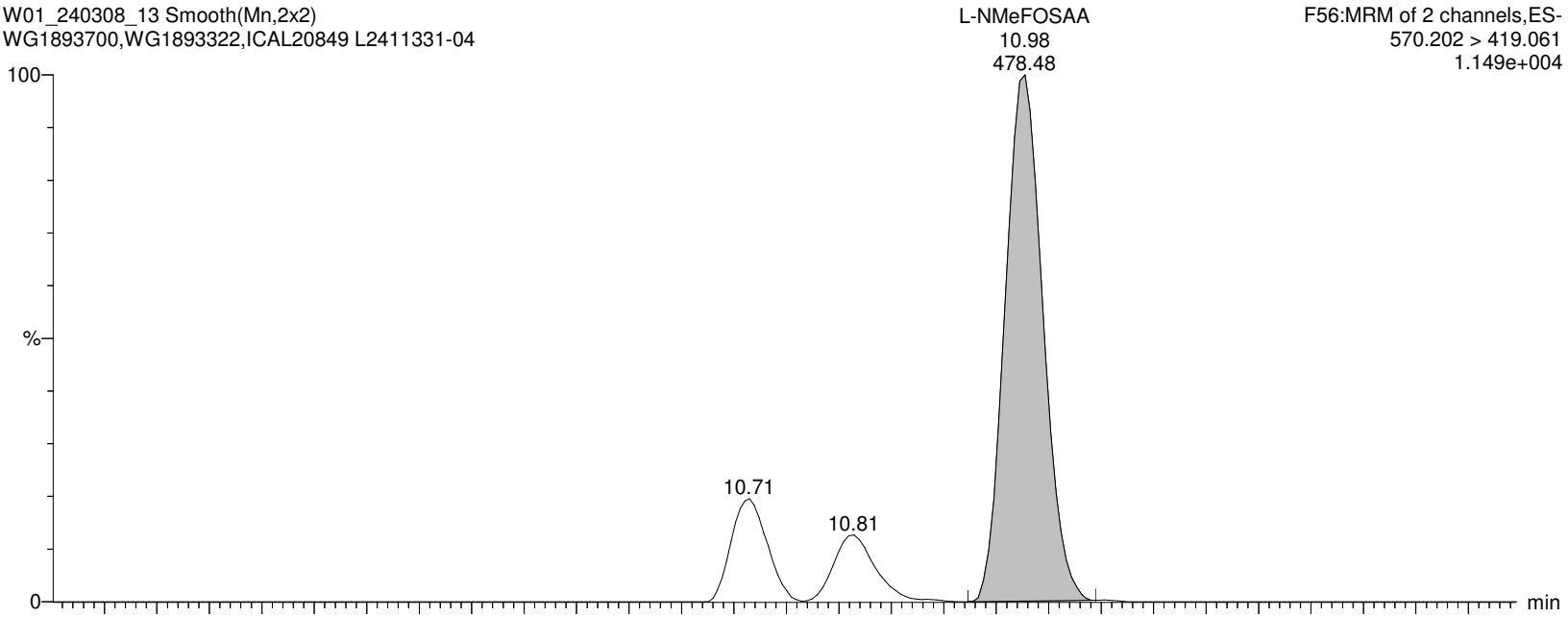

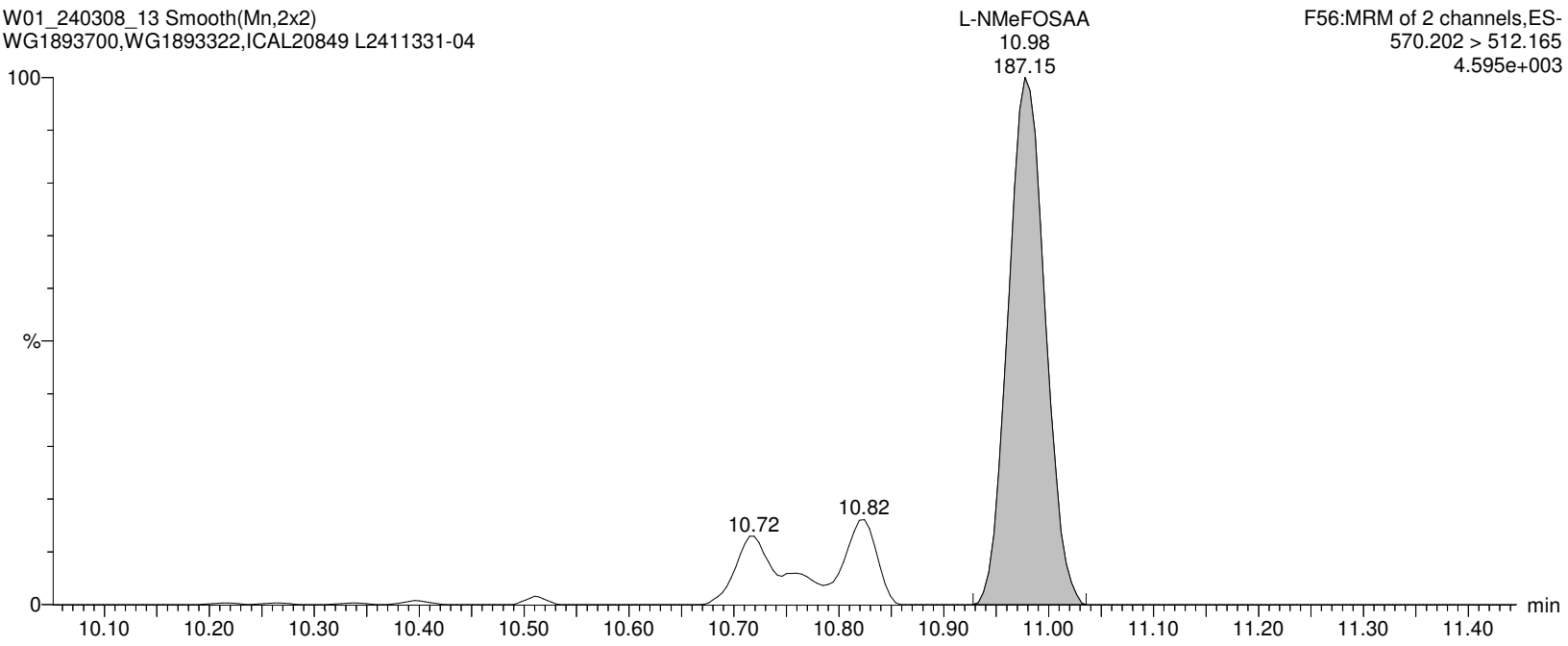

all concentration units in (ng/mL)

Alpha Analytical Inc.
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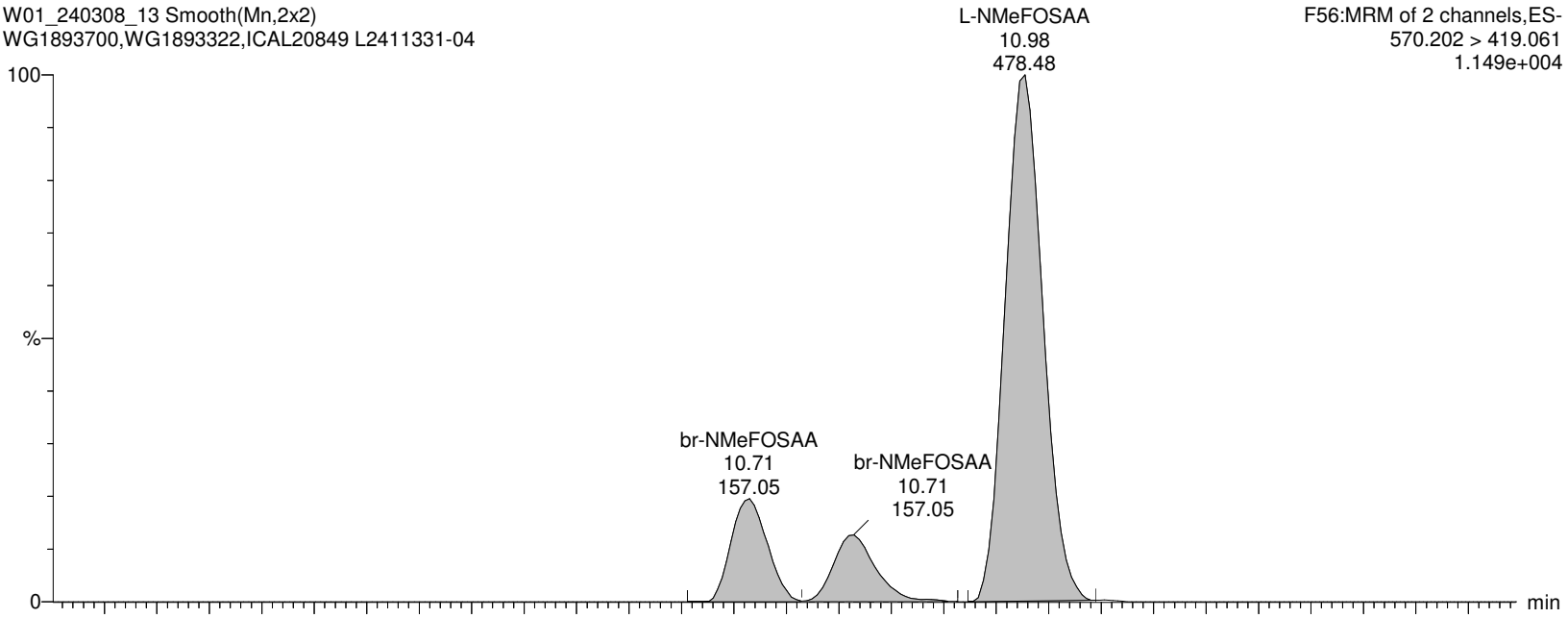

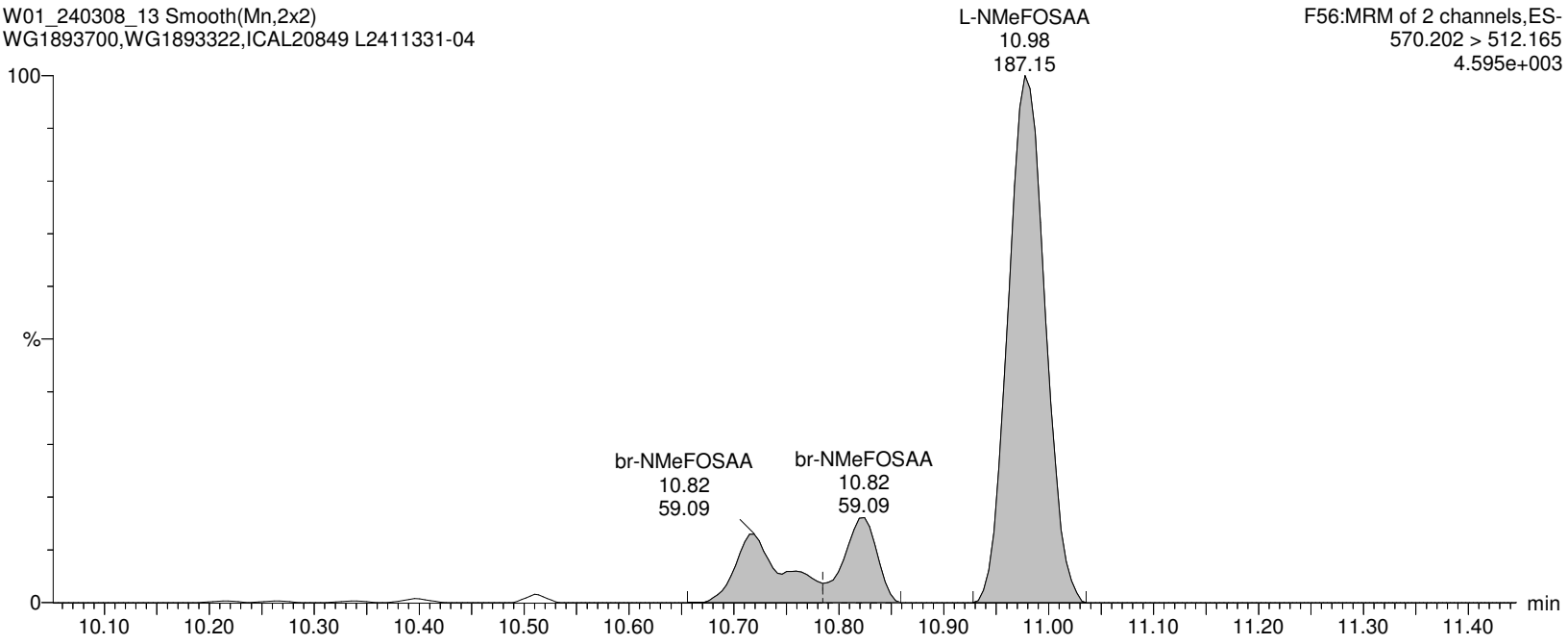

all concentration units in (ng/mL)

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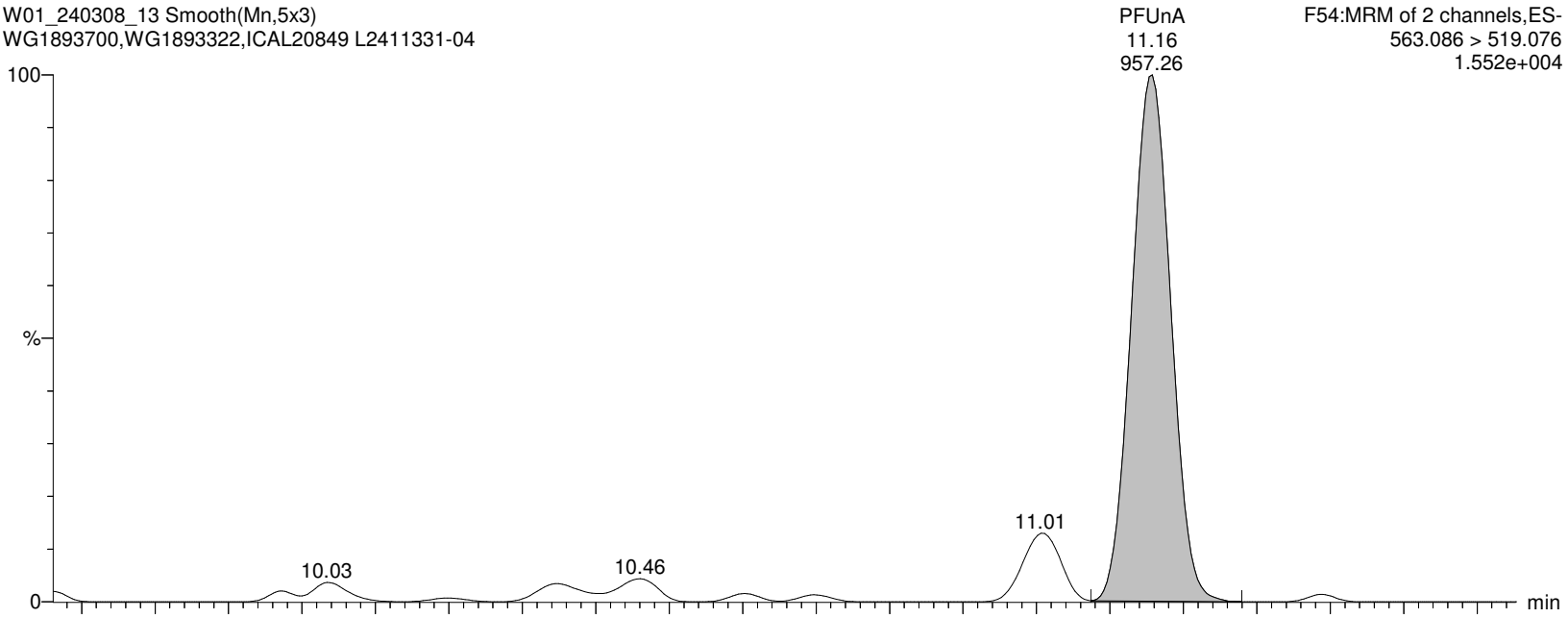

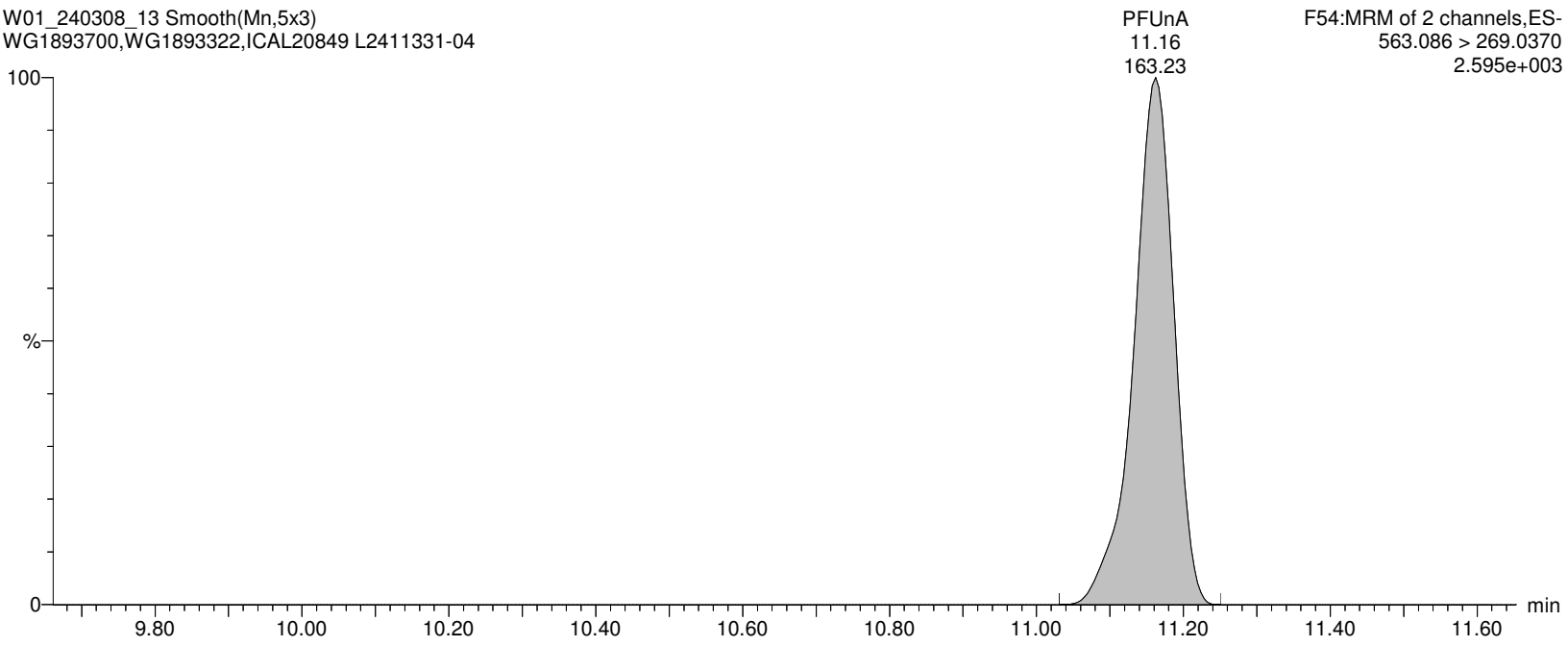

all concentration units in (ng/mL)

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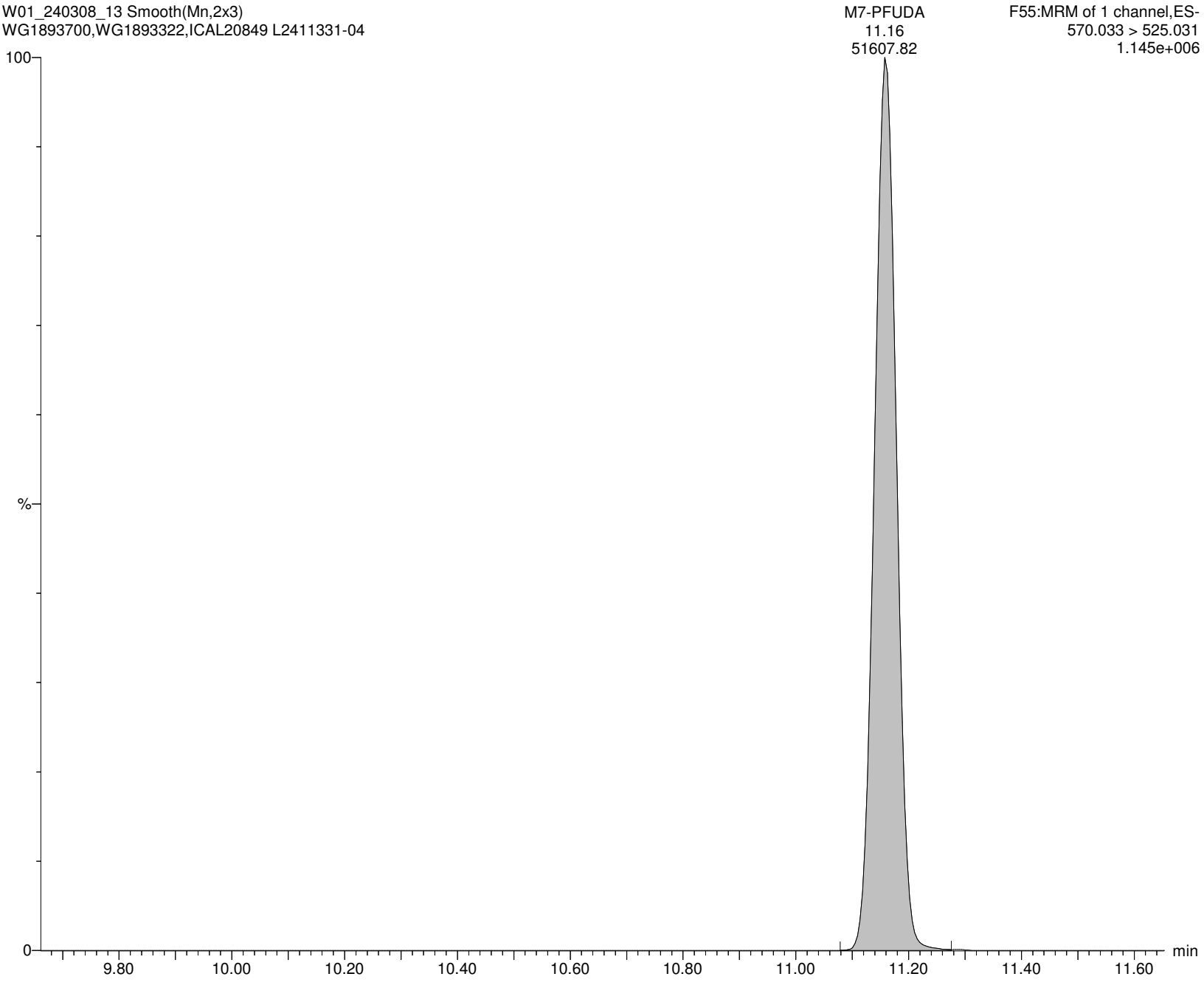
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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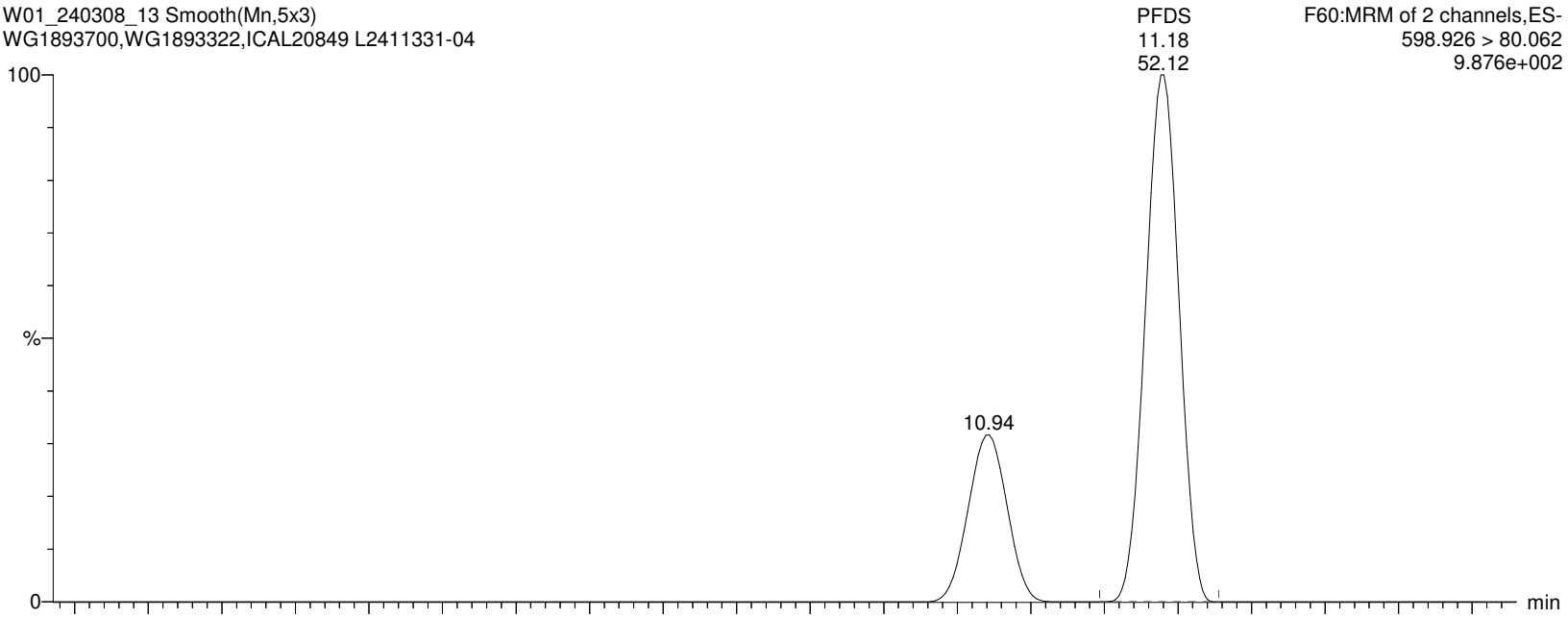

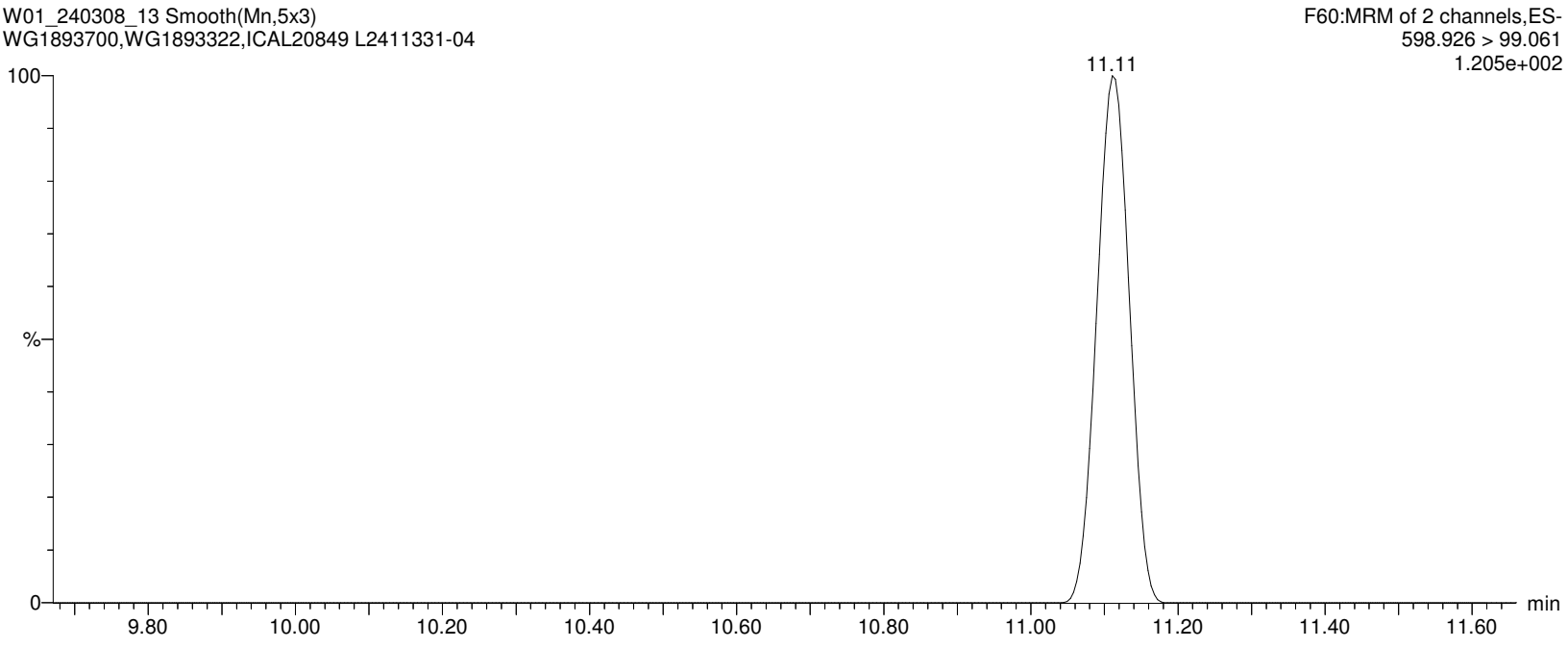

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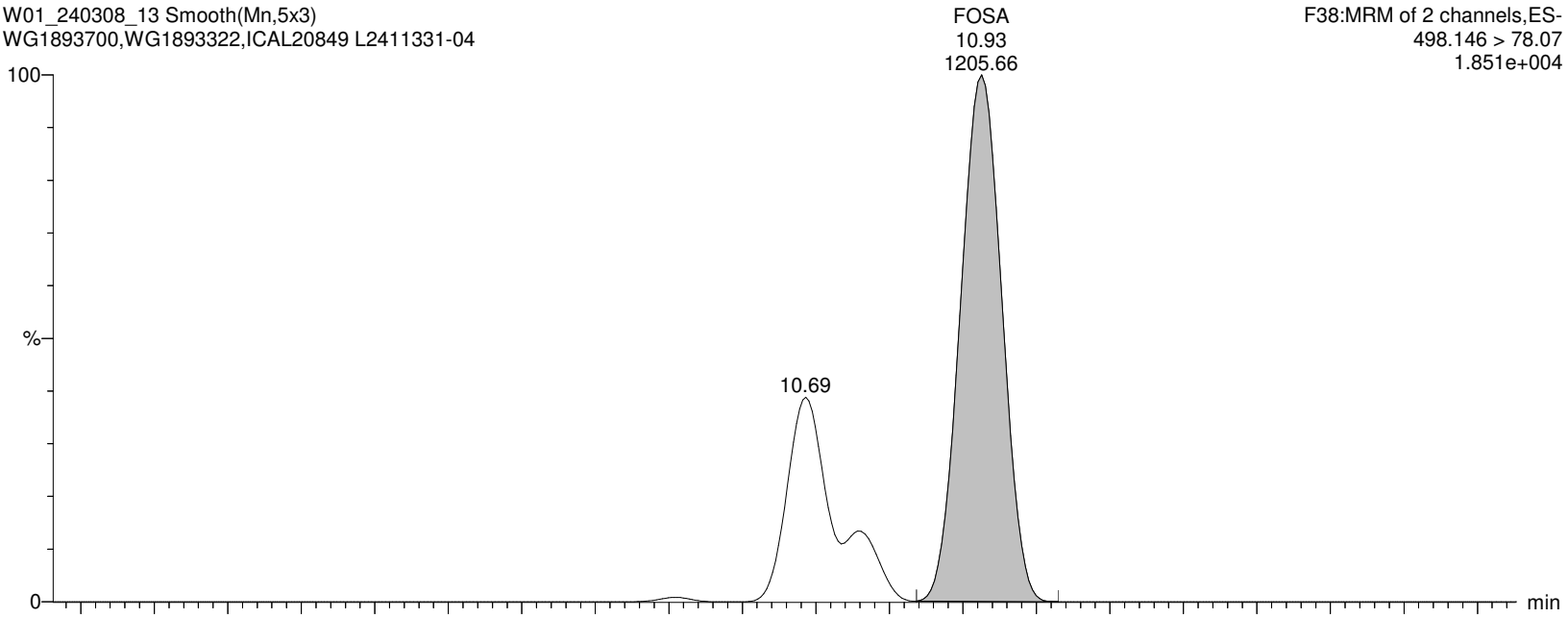

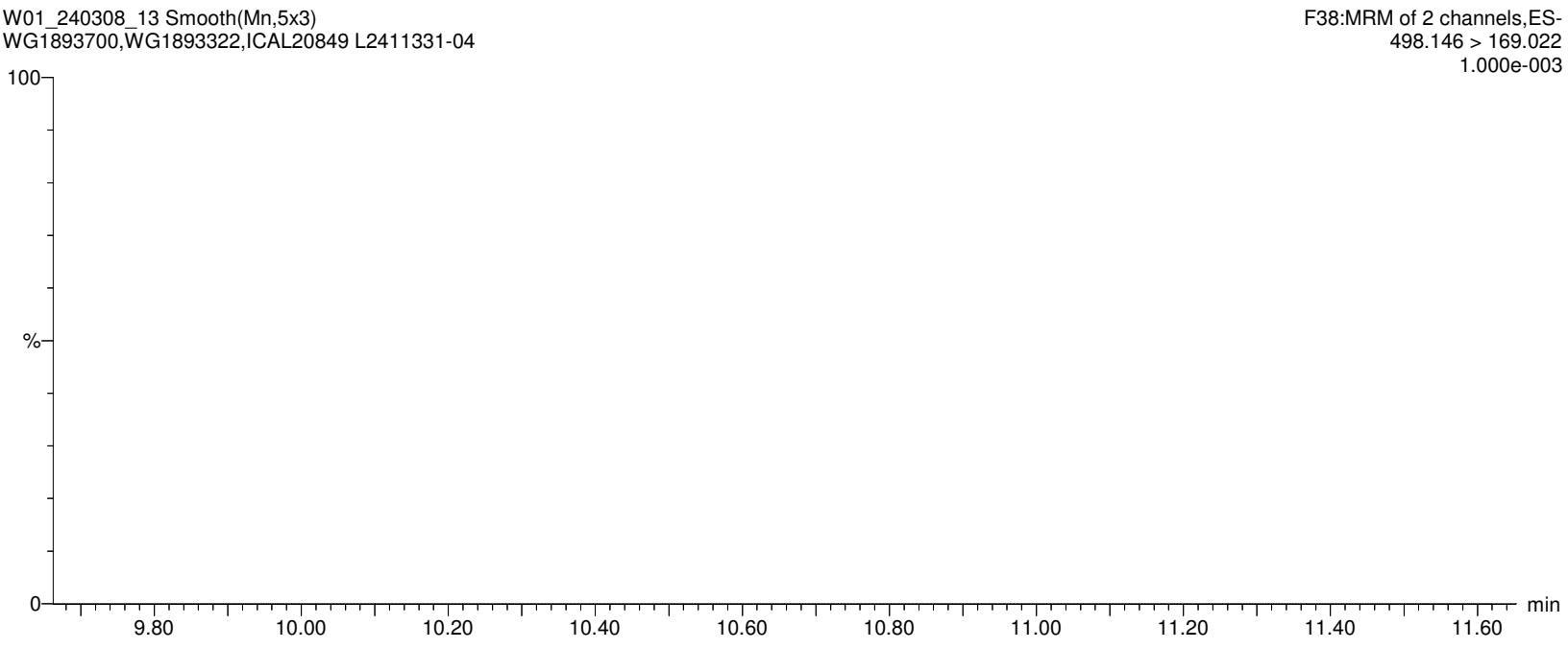

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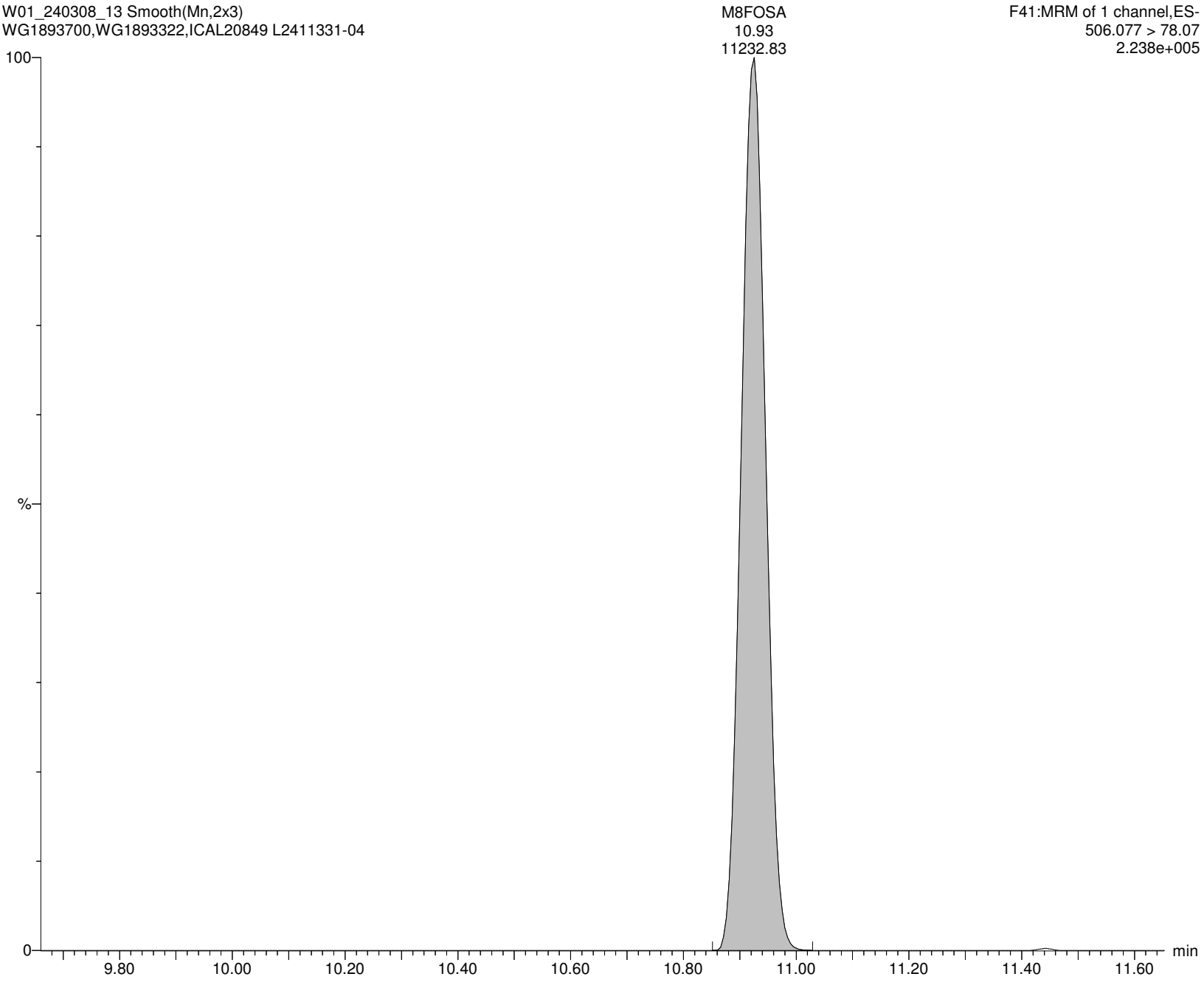

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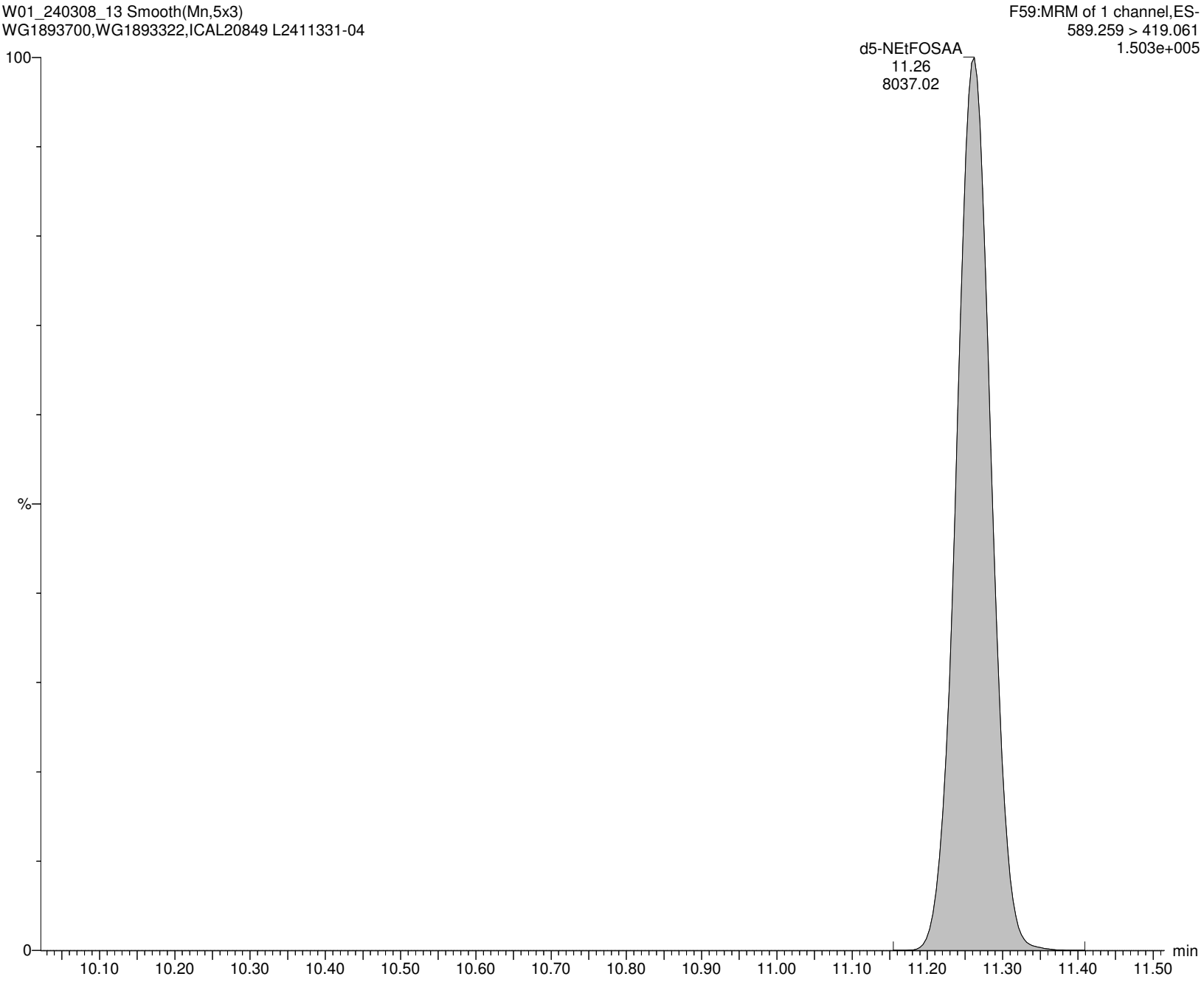
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:44 Eastern Standard Time

Name: W01_240308_13
ID: L2411331-04
Date: 08-Mar-2024
Time: 08:22:24
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

d5-NEtFOSAA



all concentration units in (ng/mL)

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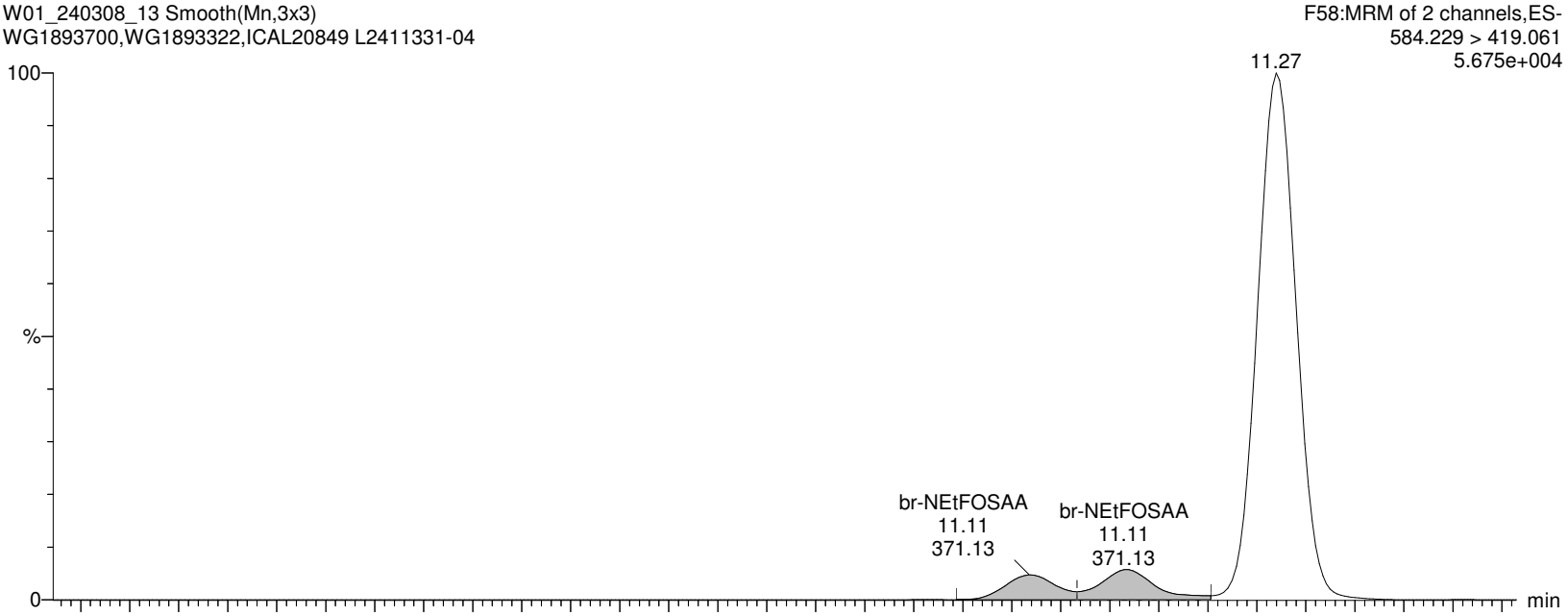

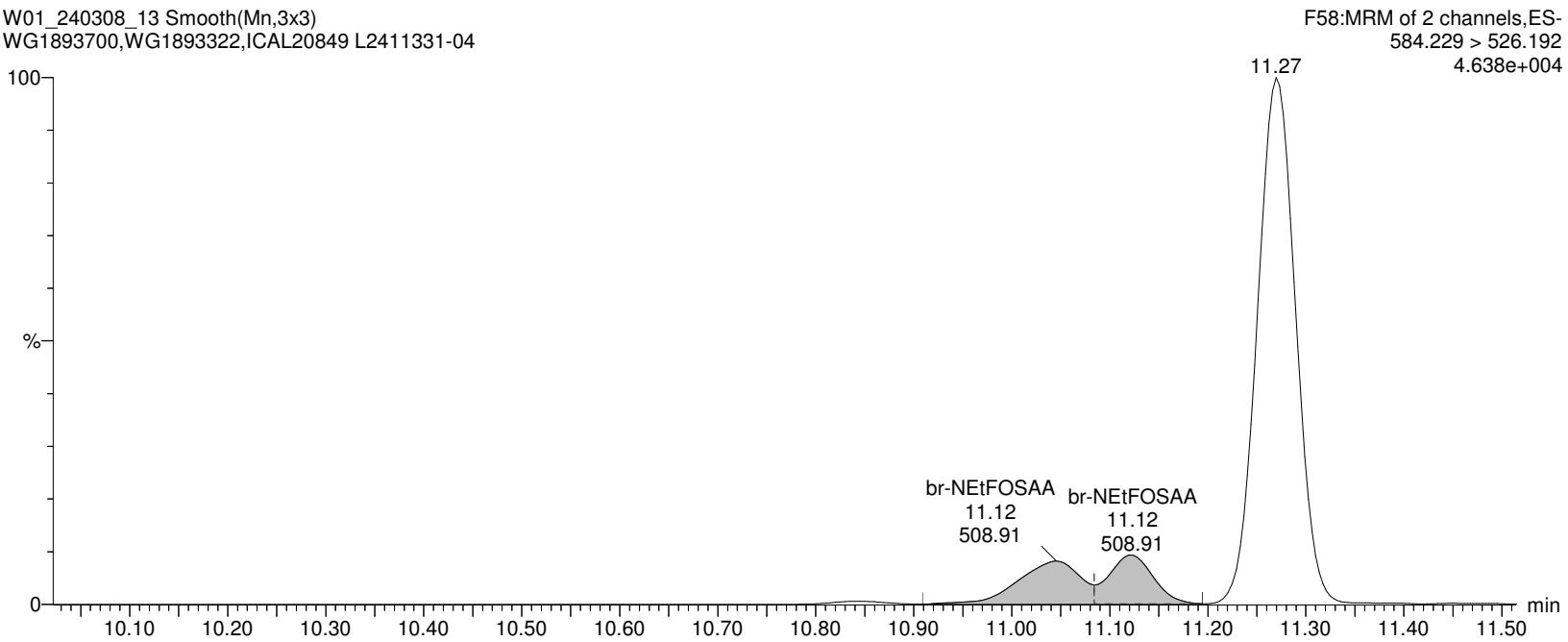

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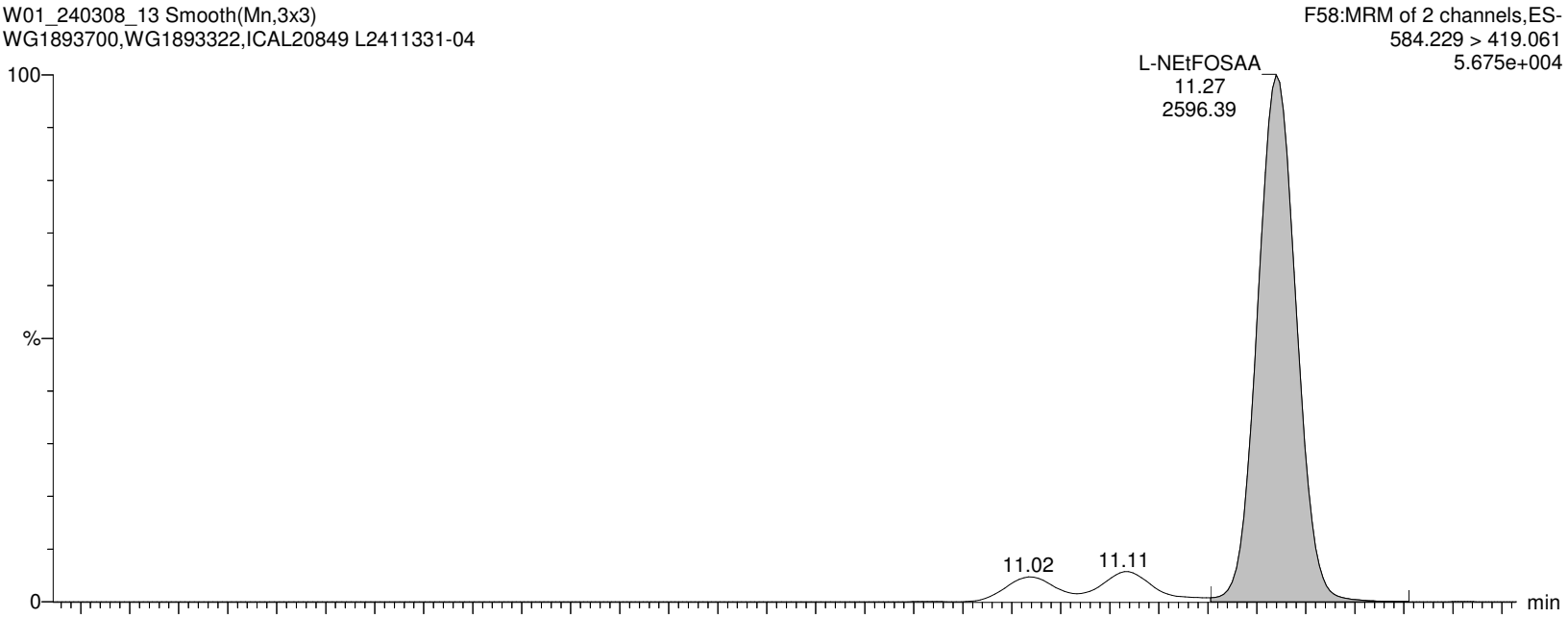

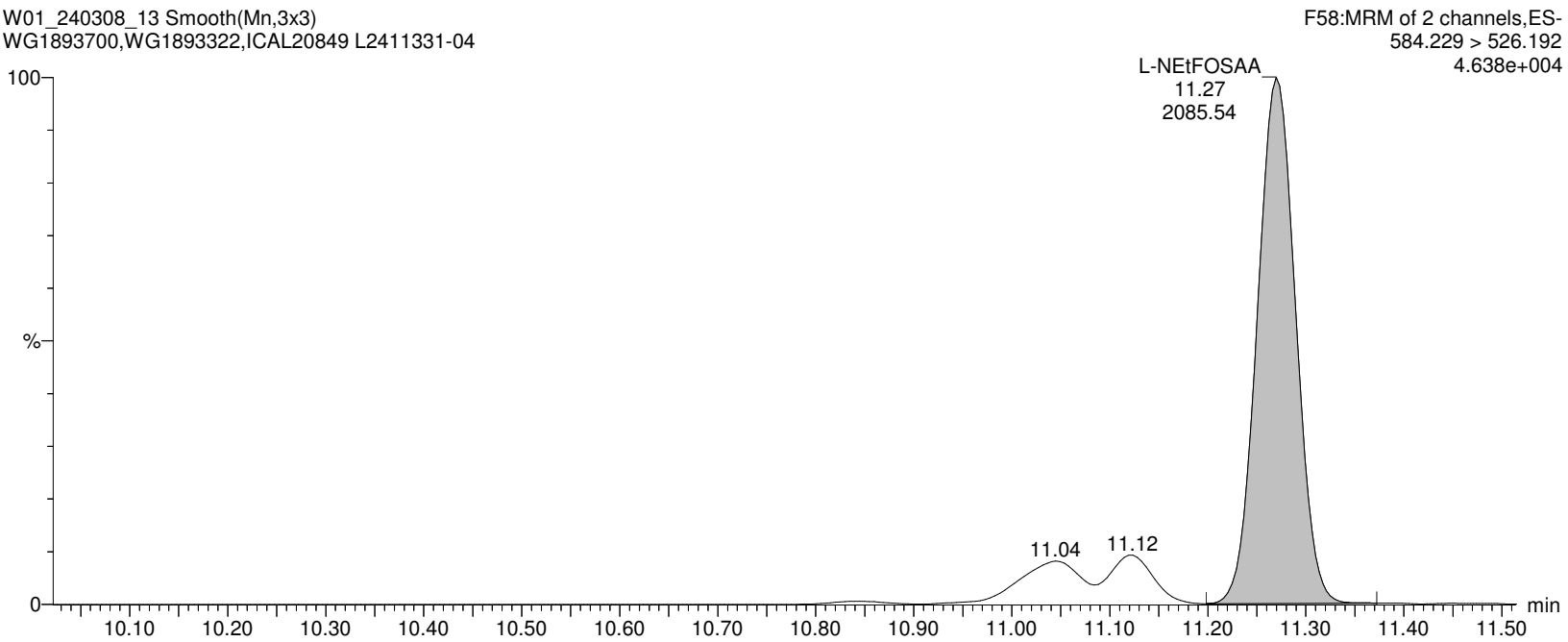

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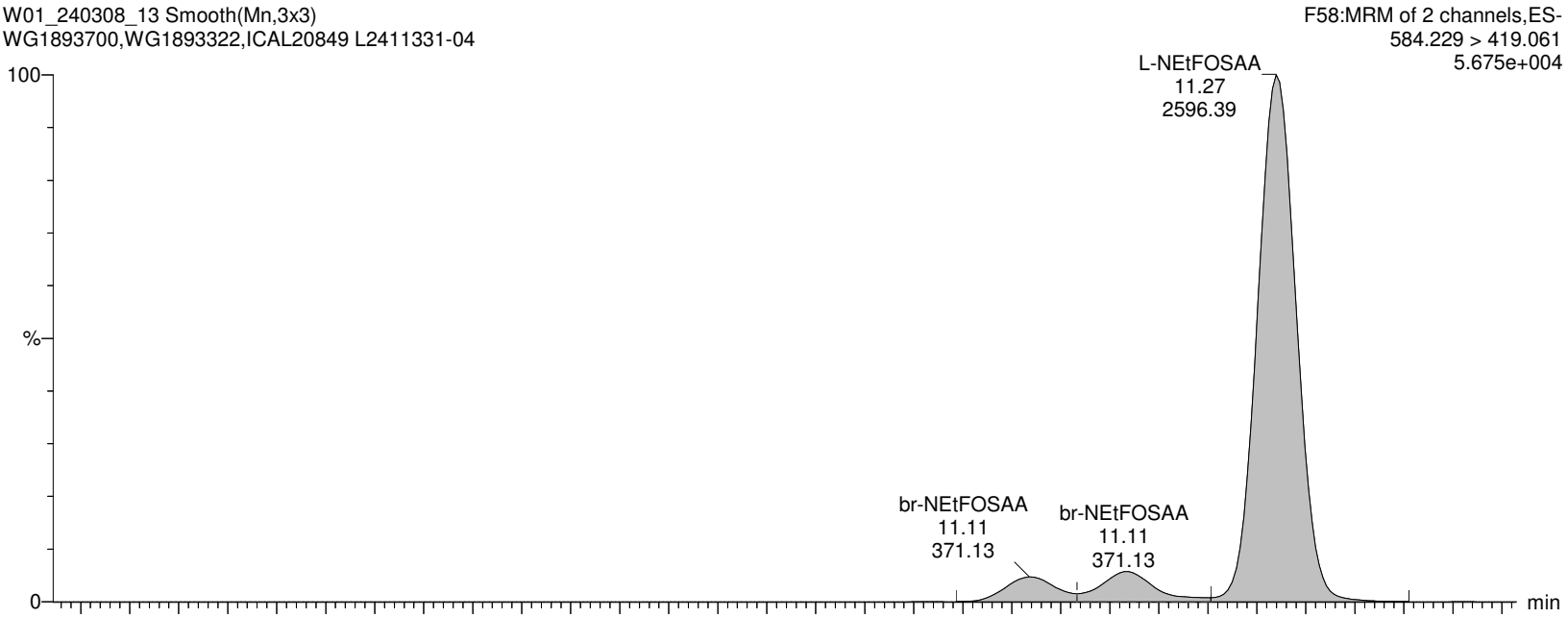

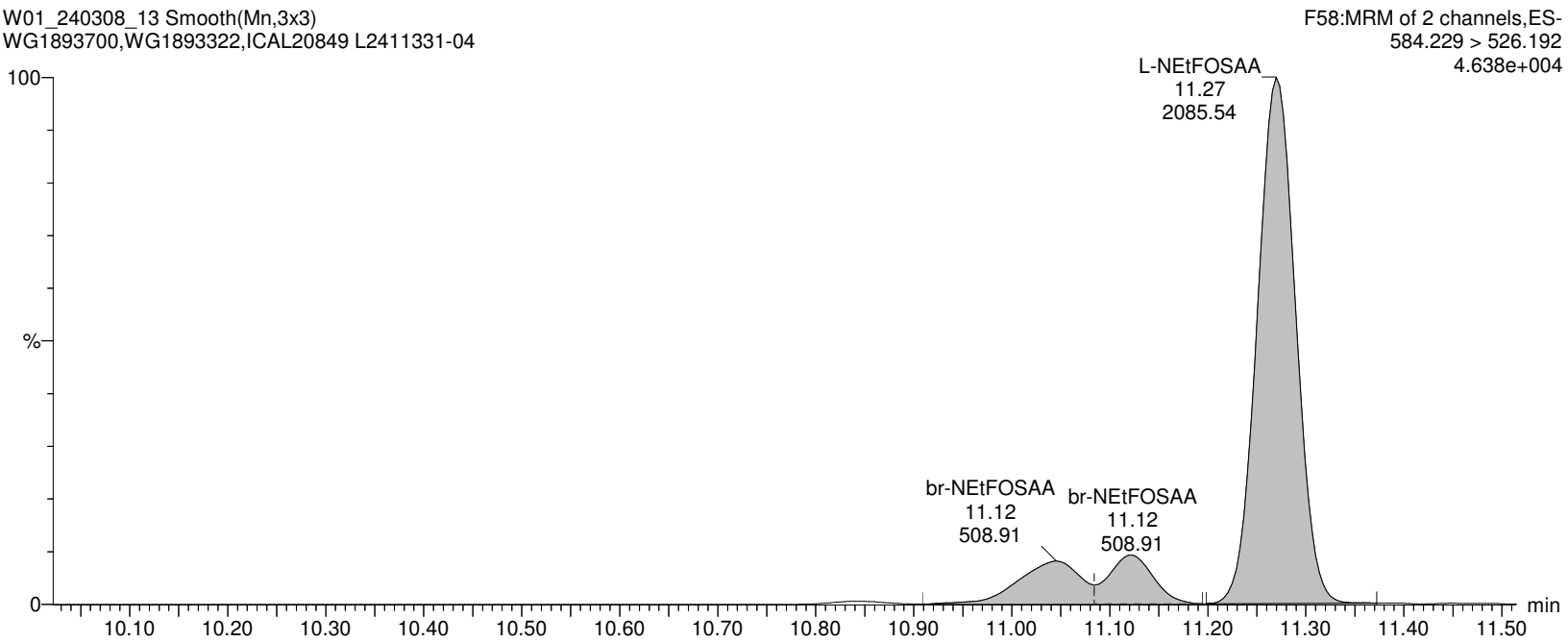

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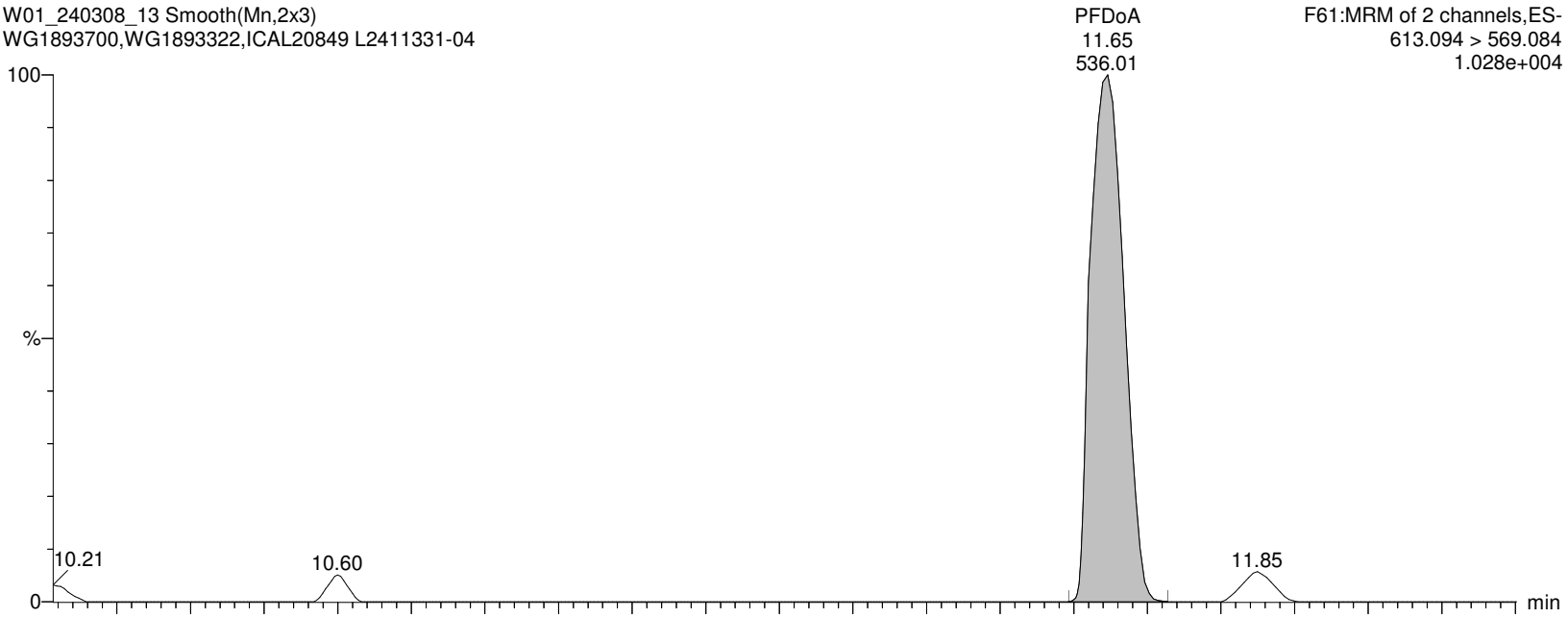
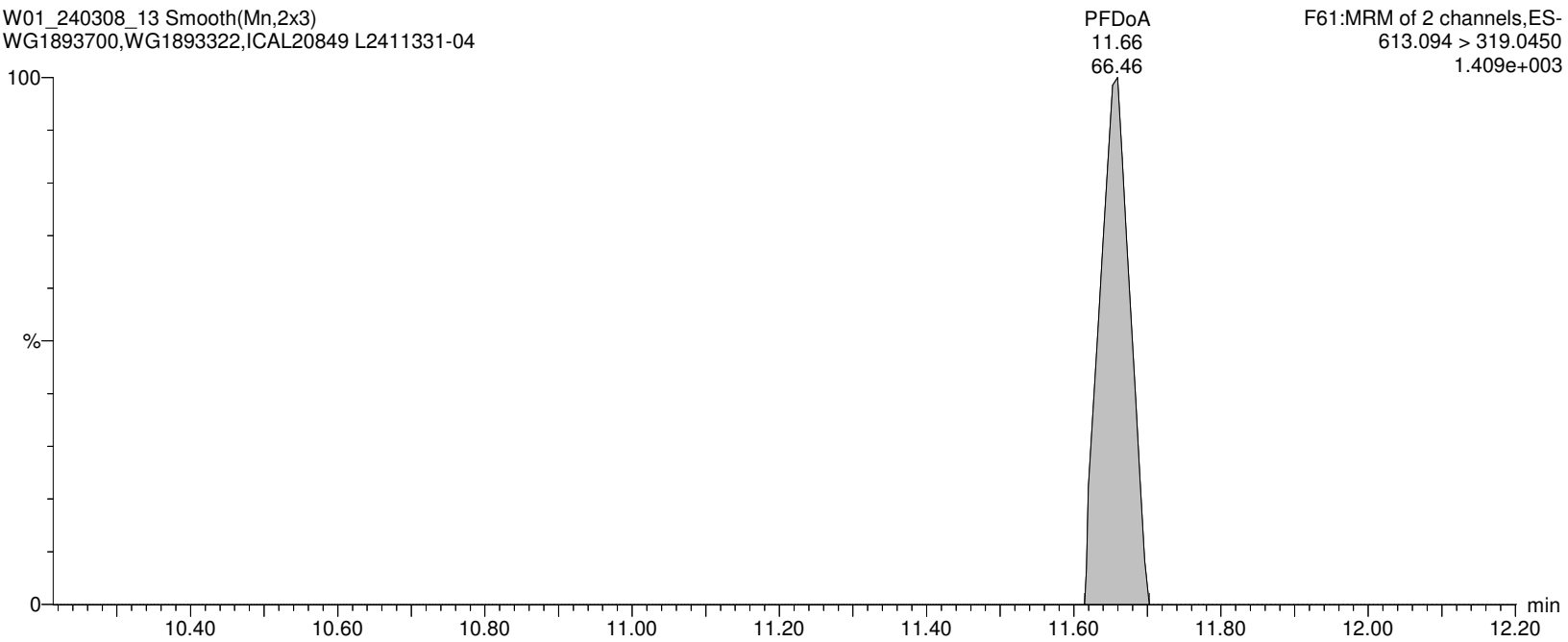
PFDoA





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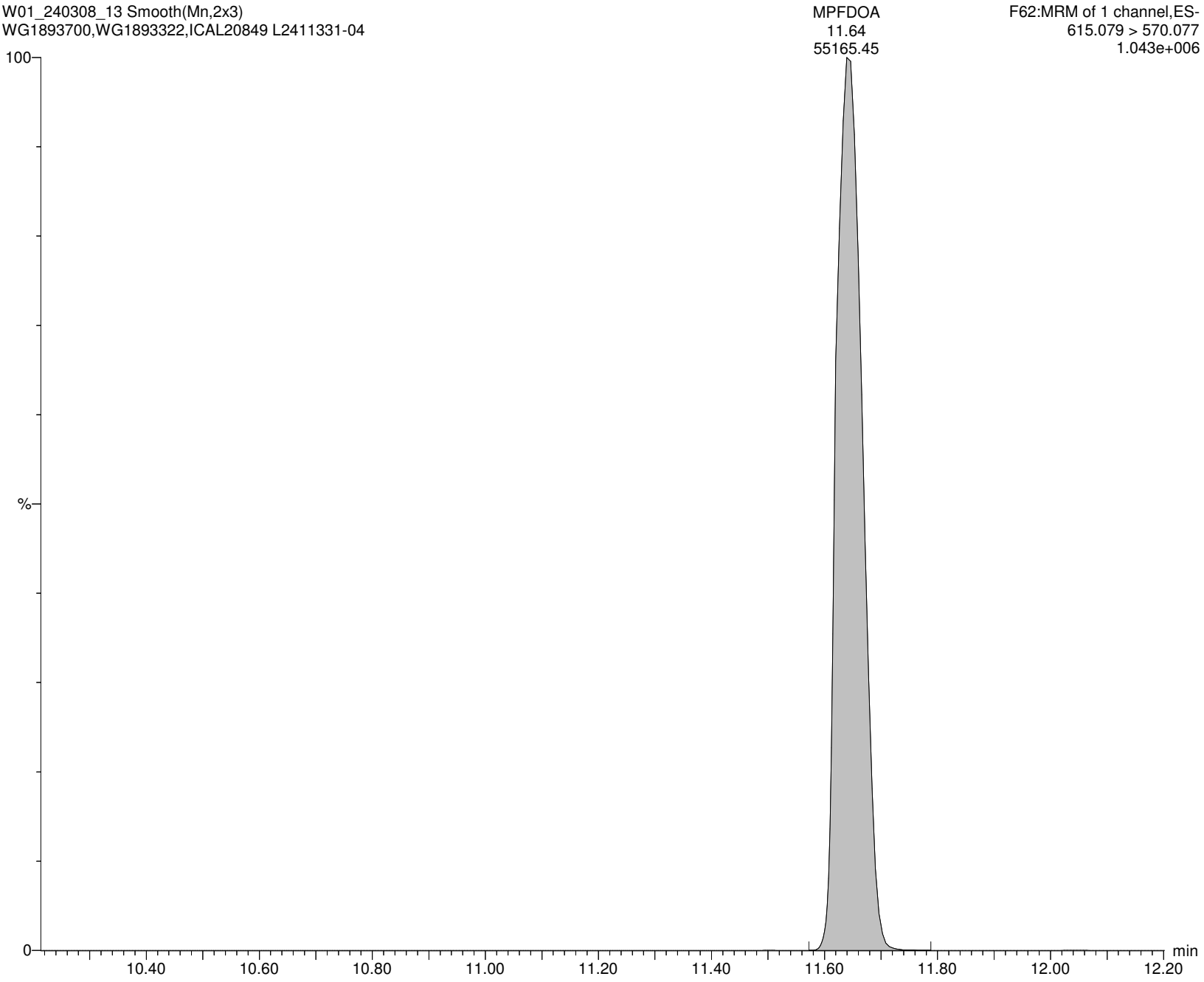

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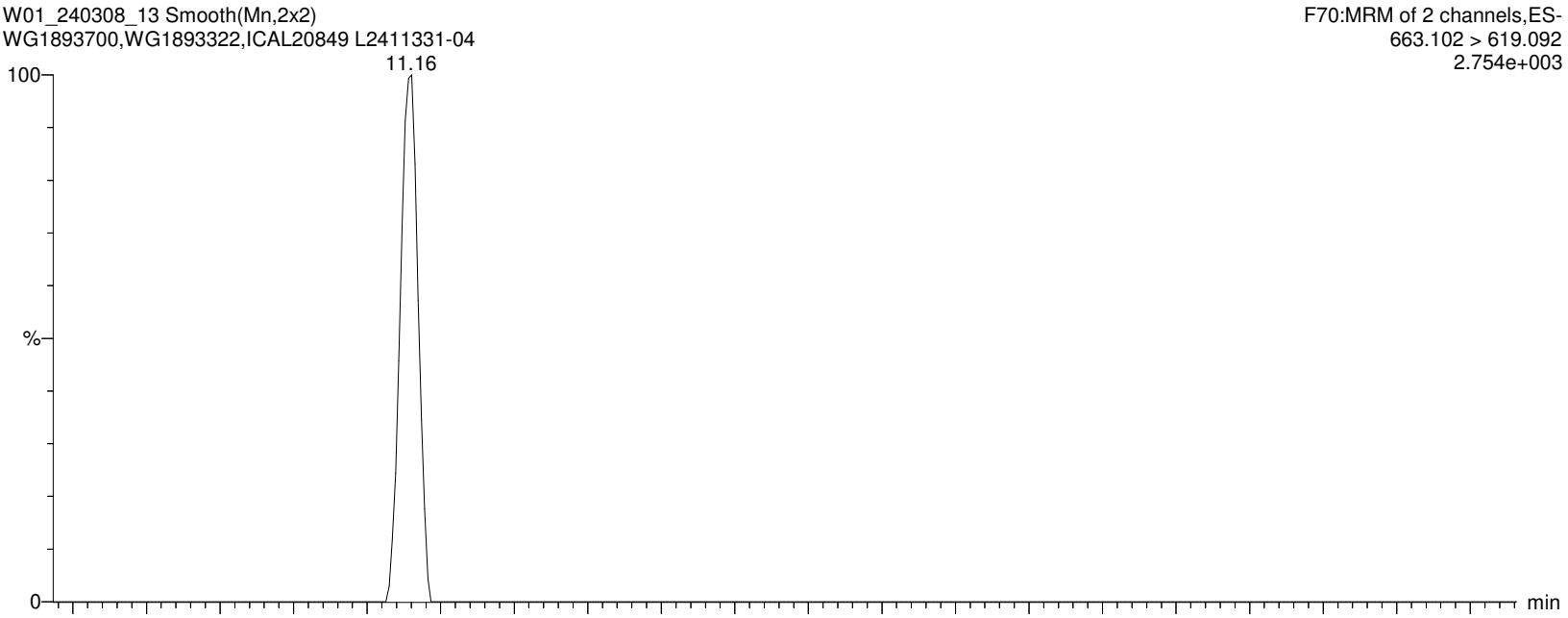

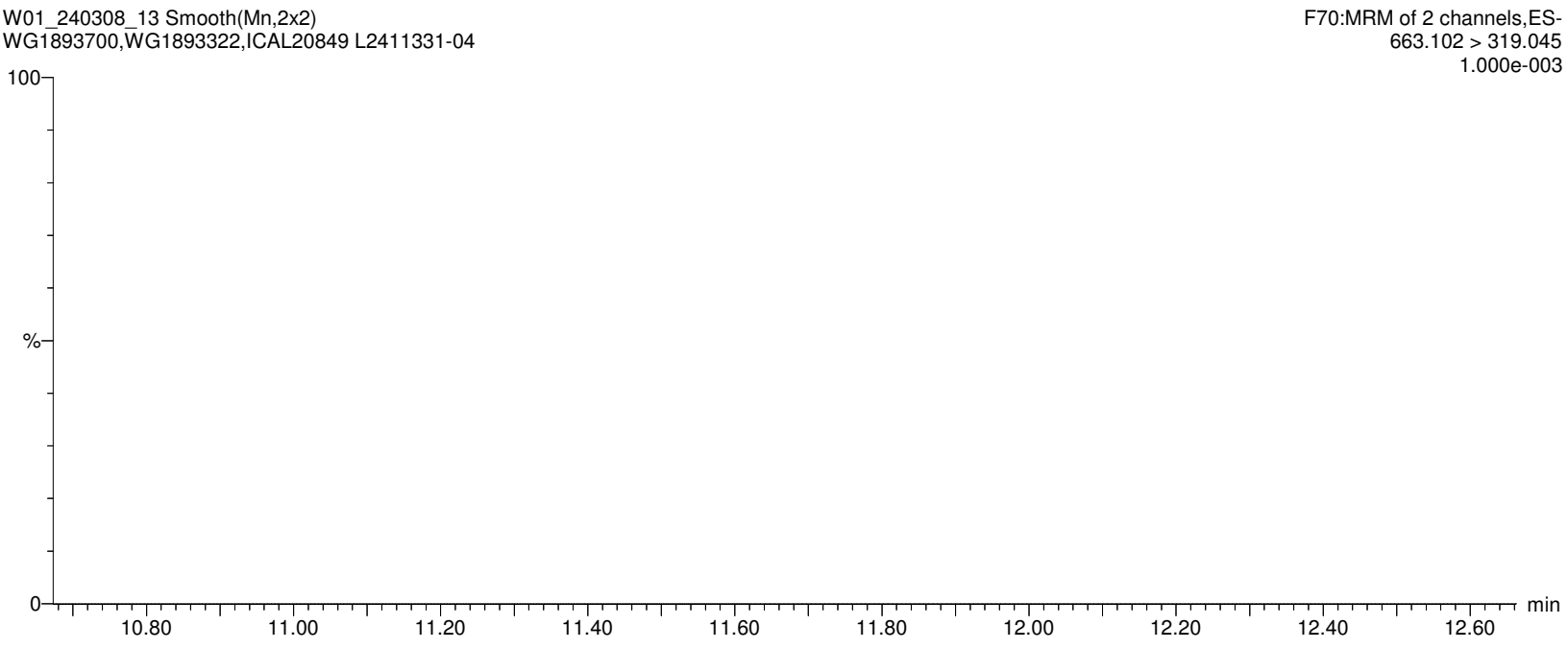

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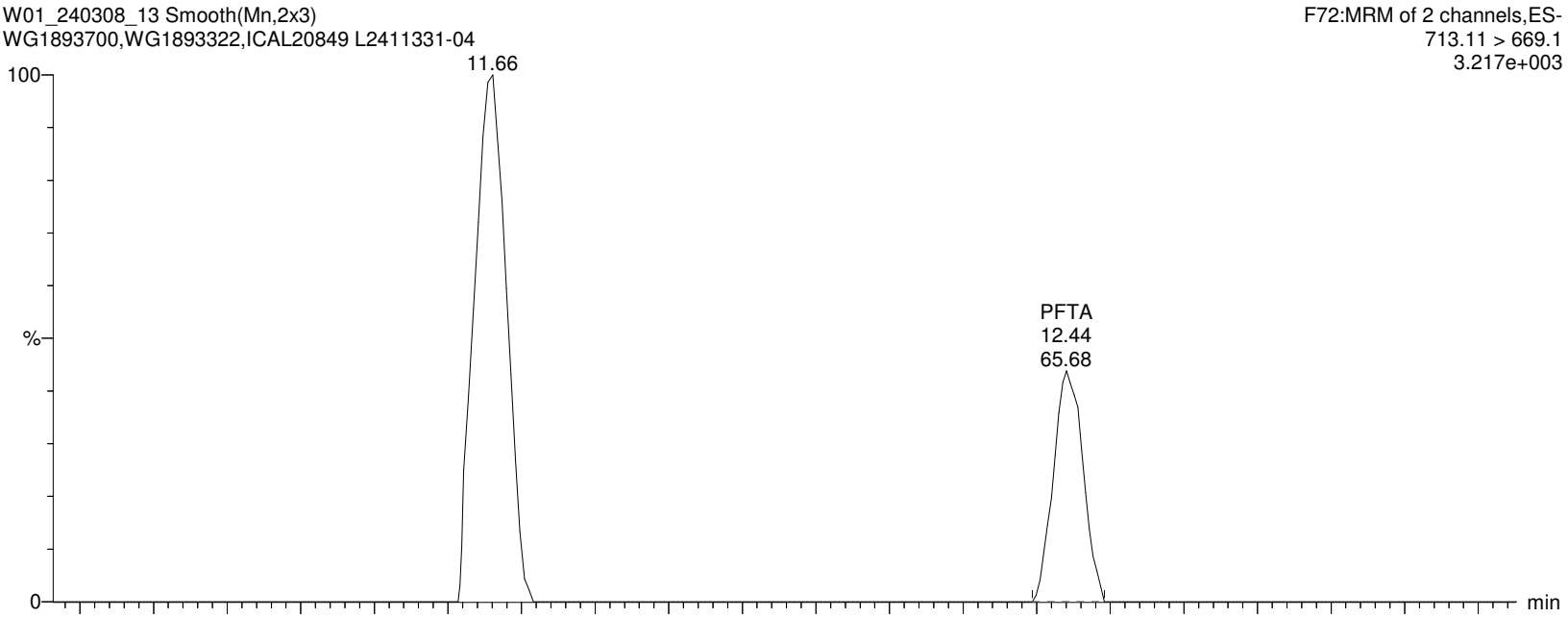

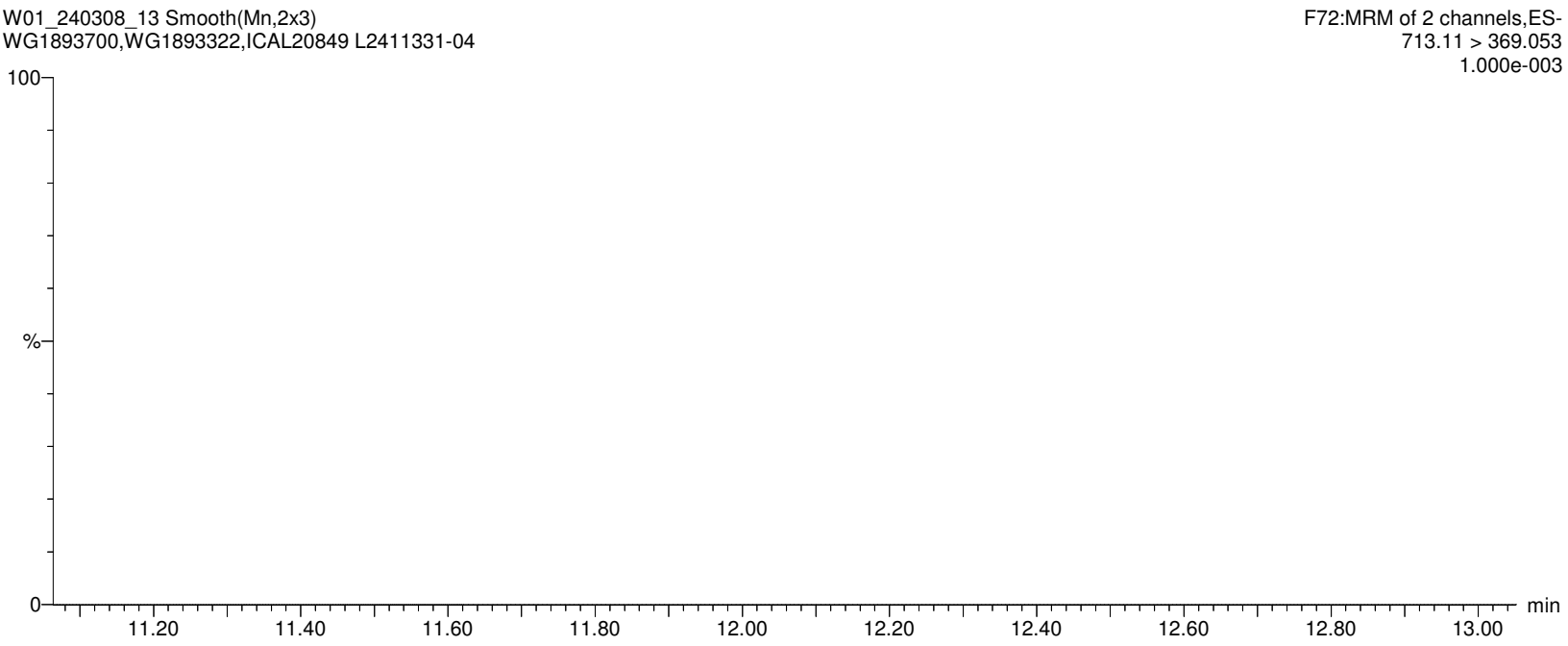

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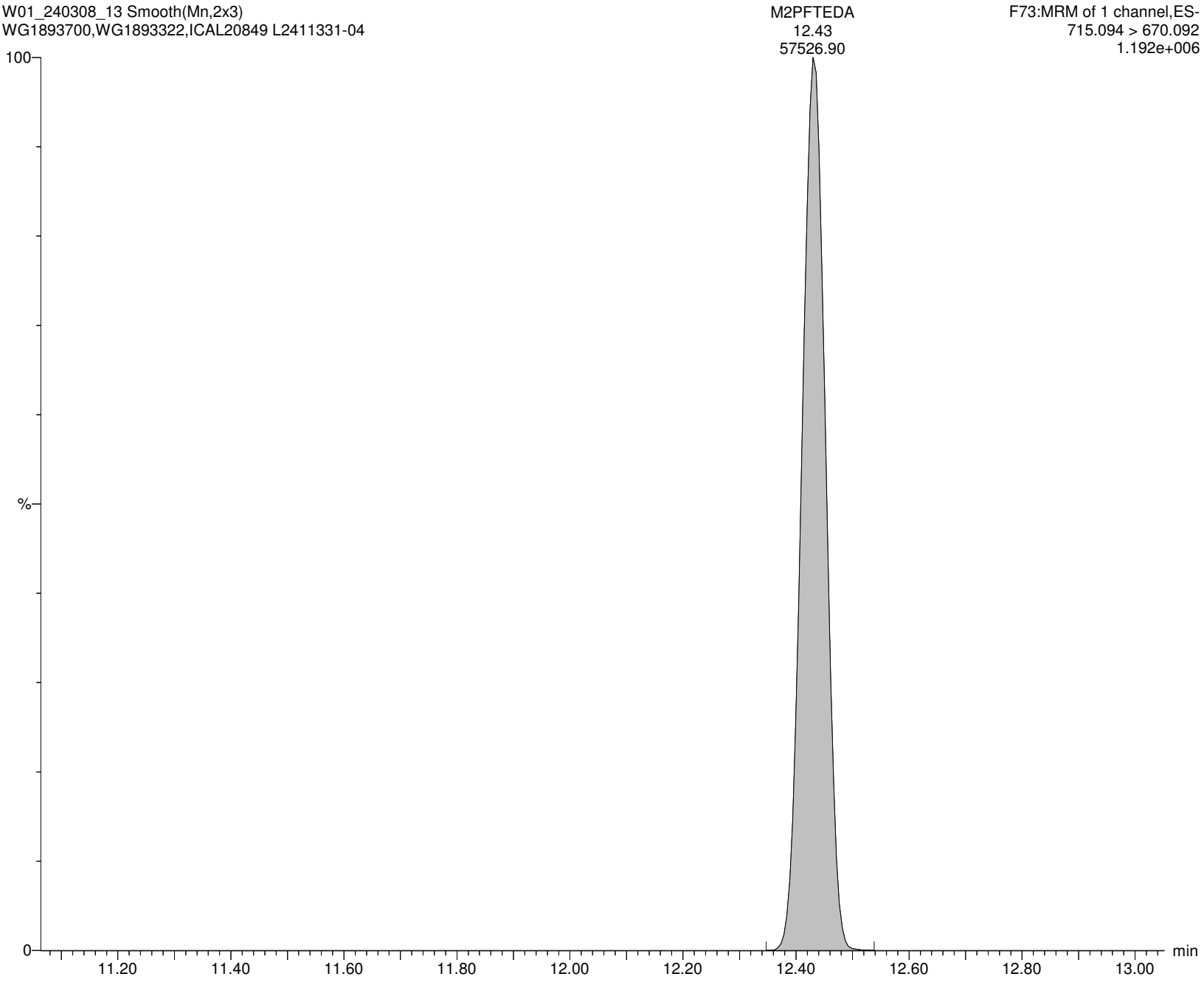

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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:46 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: L2411331-05
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Date: 08-Mar-2024
Time: 08:38:56
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		213.032 > 169.022			ND		na	
2	M3PFBA	INT STD	2.24	216.009 > 171.999	43360		5.654		na	56.5
3	MPFBA	INT STD	2.24	217.001 > 171.999	50585		10.253		na	102.5
4	PFPeA	2706-90-3		263.039 > 219.03			ND		na	
5	M5PFPEA	INT STD	5.15	268.001 > 222.999	57655		11.192		na	111.9
6	PFBS	375-73-5		299.092 > 80.062			ND		YES	
7	M3PFBS	INT STD	5.79	302.069 > 80.062	17723		9.801		na	105.2
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.94	329.13 > 309.124	5296		9.939		na	106.0
10	PFHxA	307-24-4		313.047 > 269.037			ND		YES	
11	M5PFHxA	INT STD	7.02	318.009 > 273.007	75339		10.652		na	106.5
12	PFPeS	2706-91-4		349.1 > 80.062			ND		YES	
13	PFHpA	375-85-9		363.055 > 319.045			ND		YES	
14	M4PFHpA	INT STD	8.27	367.025 > 322.022	72518		9.637		na	96.4
15	br-PFHxS	355-46-4		399.107 > 80.062			ND		YES	
16	L-PFHxS	355-46-4		399.107 > 80.062			ND		YES	
17	PFHxS	355-46-4		399.107 > 80.062	0		ND		na	
18	M3PFHxS	INT STD	8.43	402.084 > 80.062	18455		10.611		na	111.9
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1		413.063 > 369.053			ND		YES	
21	PFOA	335-67-1		413.063 > 369.053	0		ND		na	
22	M8PFOA	INT STD	9.22	421.002 > 376.	84205		10.298		na	103.0
23	M2PFOA	INT STD	9.22	415.048 > 370.045	80785		5.442		na	54.4
24	6:2FTS	27619-97-2		427.161 > 407.155			ND		YES	
25	M2-6:2FTS	INT STD	9.17	429.146 > 409.14	5927		9.681		na	101.8
26	PFHpS	375-92-8		449.115 > 80.062			ND		YES	
27	PFNA	375-95-1		463.071 > 419.061			ND		YES	
28	M9PFNA	INT STD	9.97	472.002 > 427.	84223		9.915		na	99.1
29	br-PFOS	1763-23-1		499.123 > 80.062			ND		YES	
30	L-PFOS	1763-23-1		499.123 > 80.062			ND		YES	
31	PFOS	1763-23-1		499.123 > 80.062	0		ND		na	
32	M4PFOS	INT STD	10.02	503.093 > 80.062	19038		5.140		na	53.5
33	M8PFOS	INT STD	10.02	507.062 > 80.062	18901		9.306		na	97.0
34	PFDA	335-76-2		513.078 > 469.069			ND		YES	
35	M2PFDA	INT STD	10.61	515.063 > 470.061	74309		5.539		na	55.4
36	M6PFDA	INT STD	10.61	519.033 > 474.03	70954		9.577		na	95.8
37	8:2FTS	39108-34-4		527.177 > 507.171			ND		YES	
38	M2-8:2FTS	INT STD	10.60	529.162 > 509.155	6479		10.009		na	104.3
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	11211		9.852		na	98.5
41	br-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
42	L-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	0		ND		na	
44	PFUnA	2058-94-8		563.086 > 519.076			ND		YES	
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	79678		9.871		na	98.7
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6		498.146 > 78.07			ND		YES	
48	M8FOSA	INT STD	10.92	506.077 > 78.07	32703		6.003		na	60.0
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	10655		9.935		na	99.4
50	br-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
51	L-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	0		ND		na	
53	PFDoA	307-55-1		613.094 > 569.084			ND		YES	
54	MPFDOA	INT STD	11.64	615.079 > 570.077	78752		8.693		na	86.9
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.43	715.094 > 670.092	73621		9.011		na	90.1

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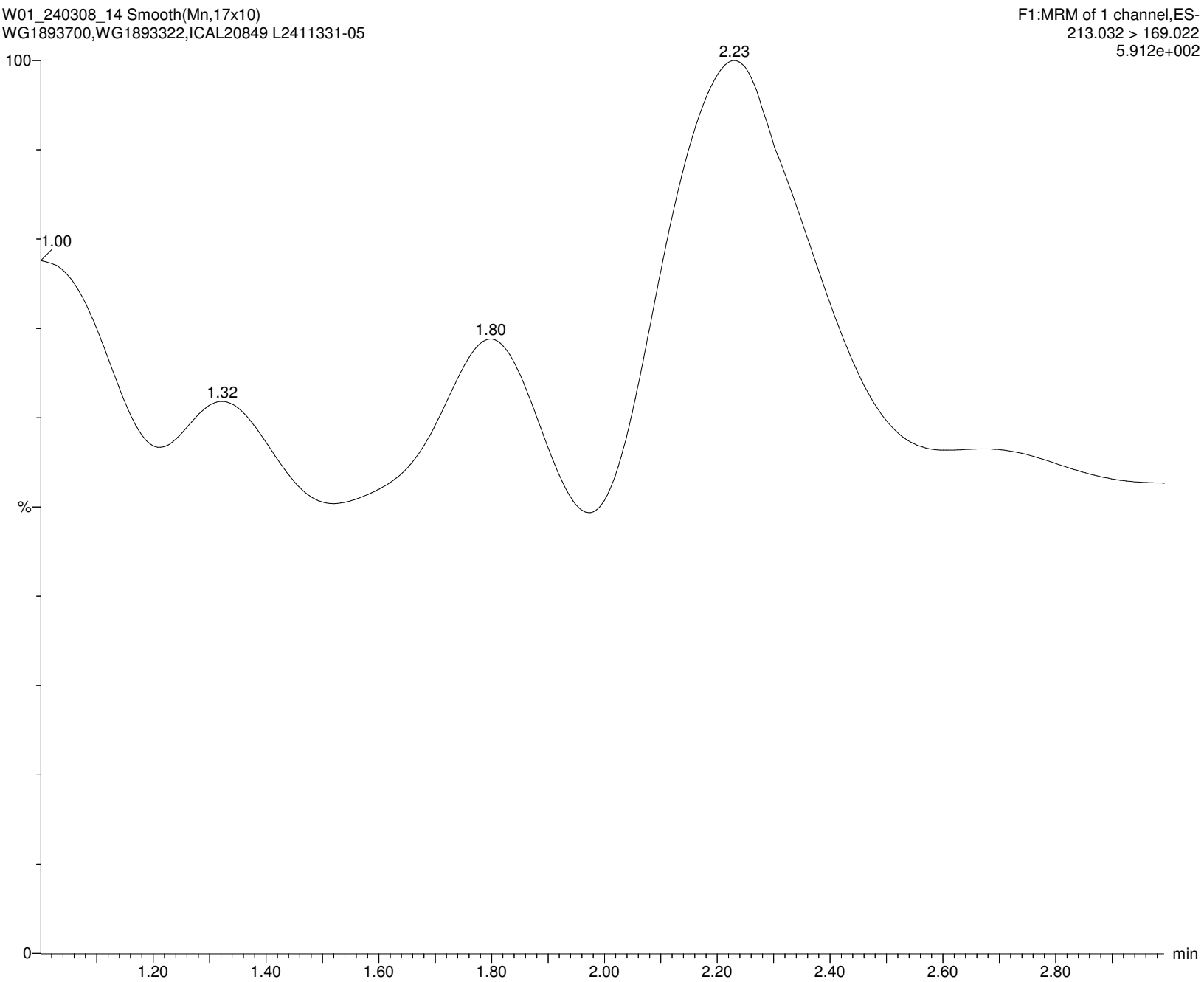

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:46 Eastern Standard Time

Name: W01_240308_14
ID: L2411331-05
Date: 08-Mar-2024
Time: 08:38:56
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
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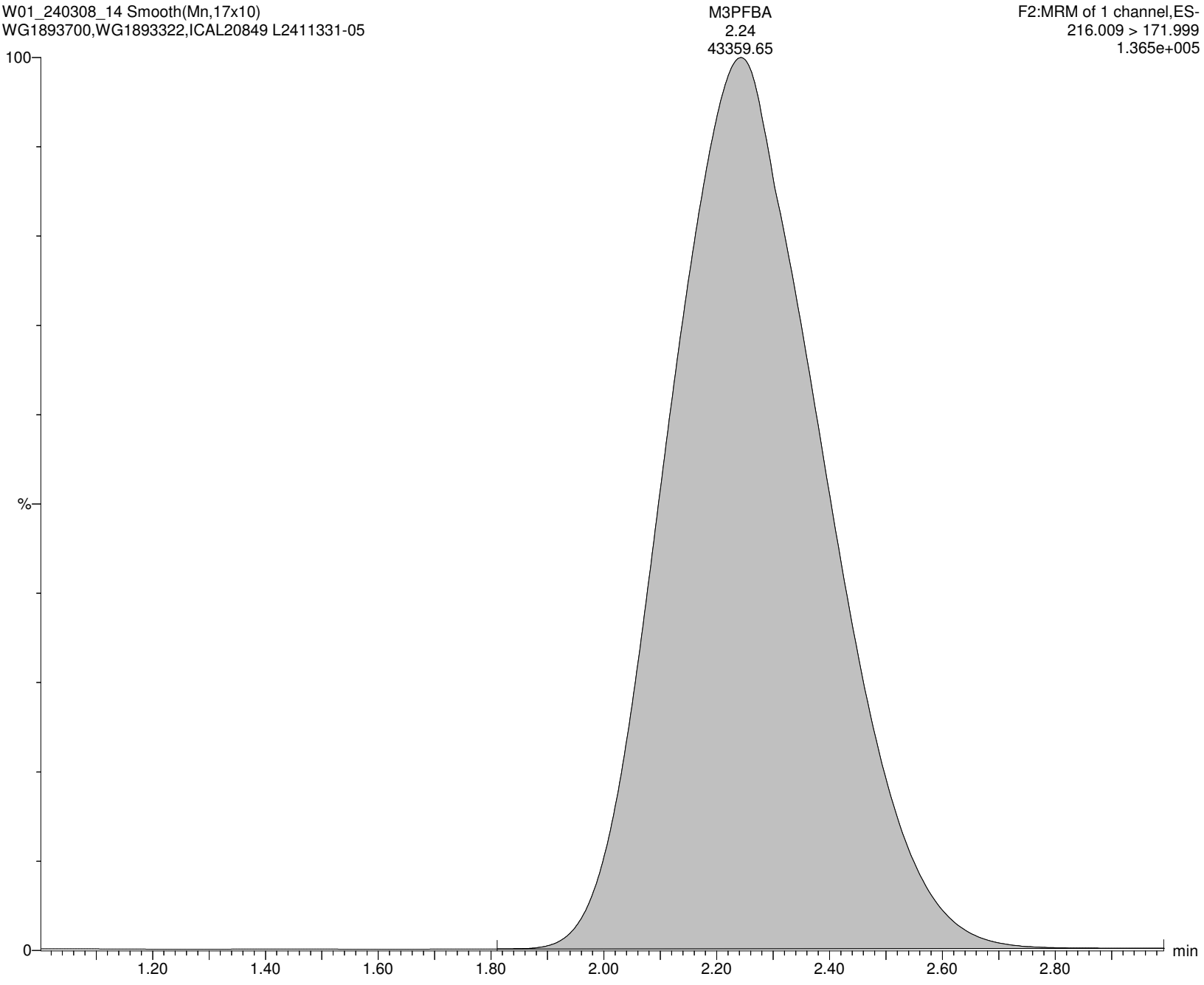

all concentration units in (ng/mL)

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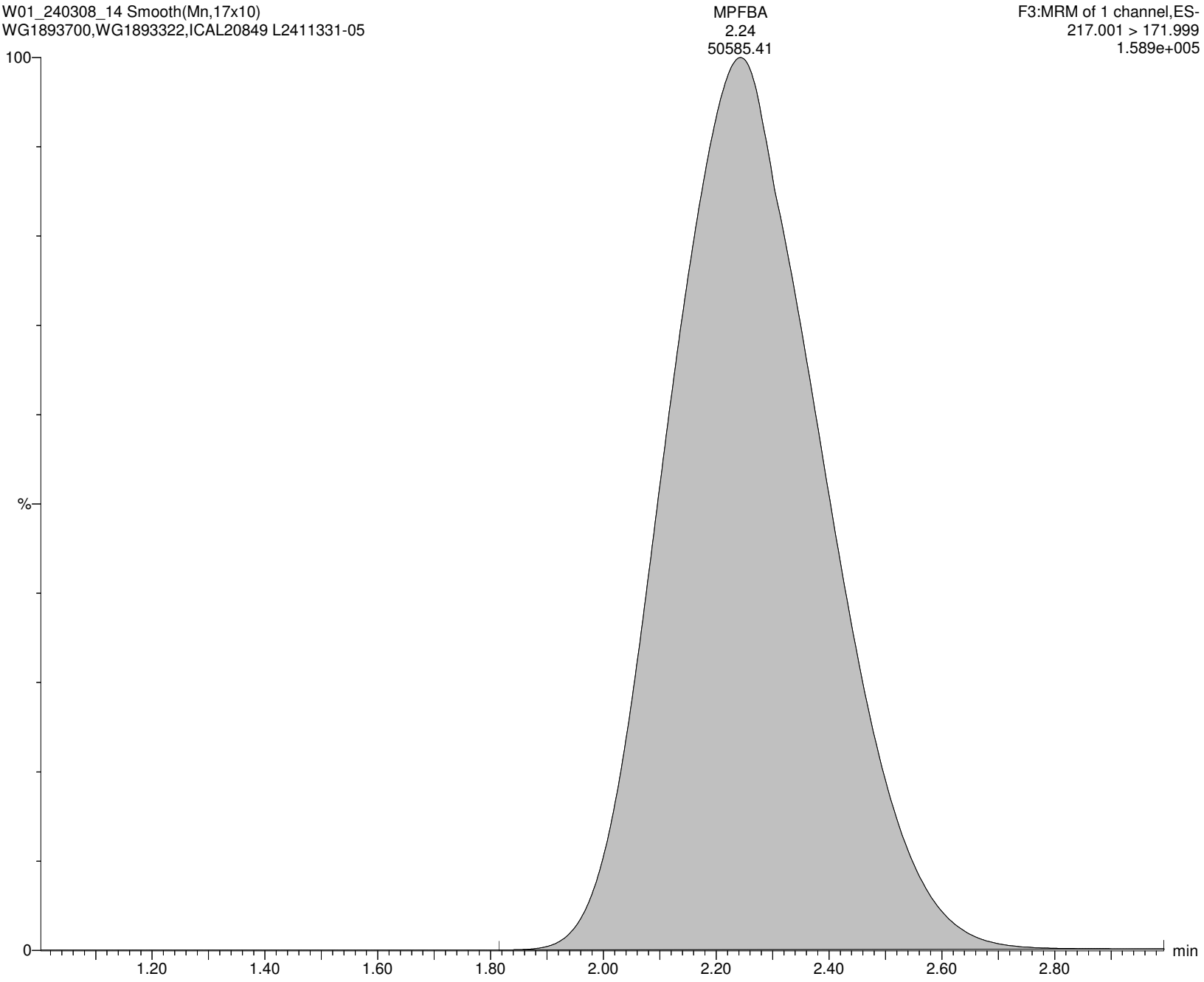

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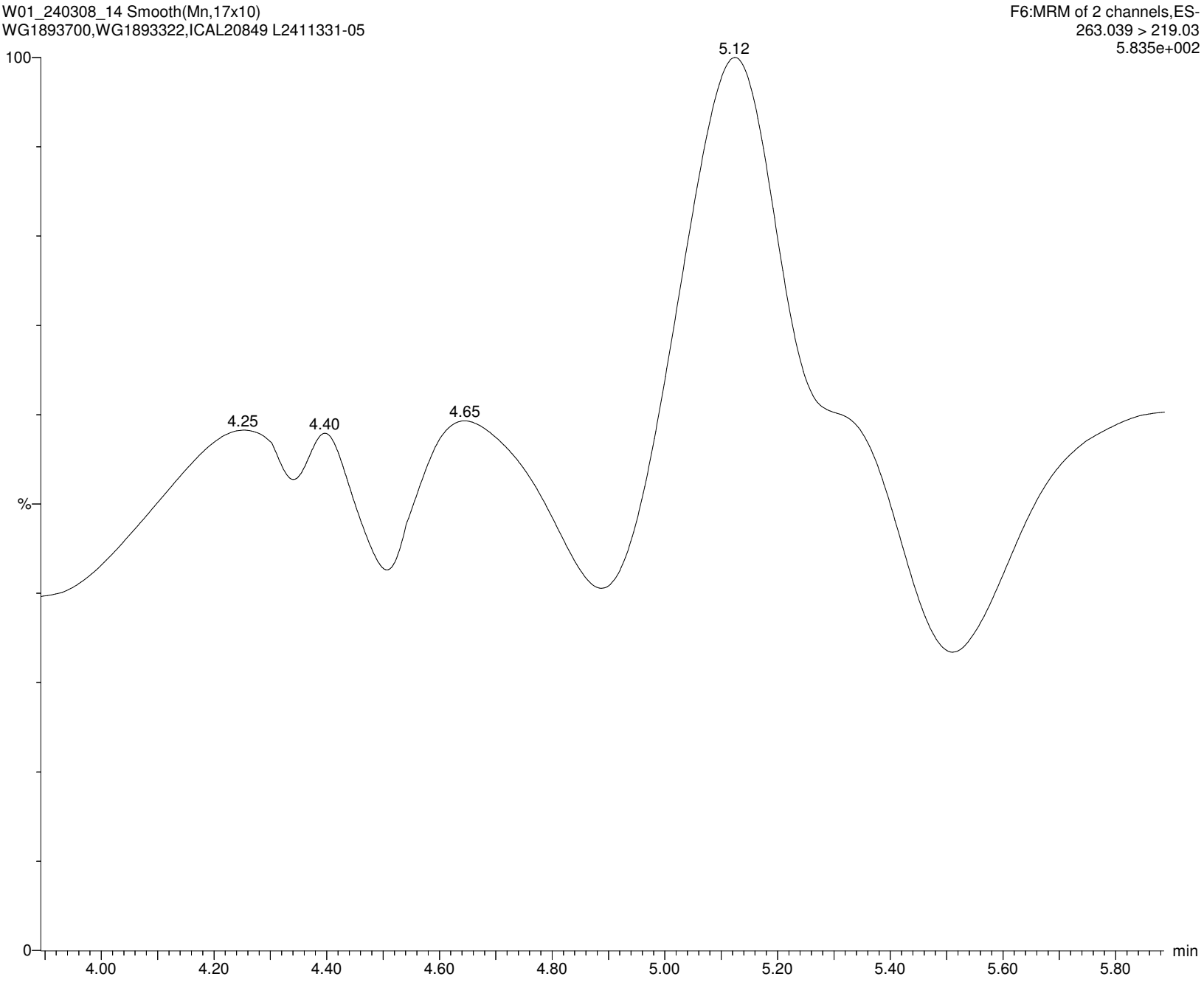

all concentration units in (ng/mL)

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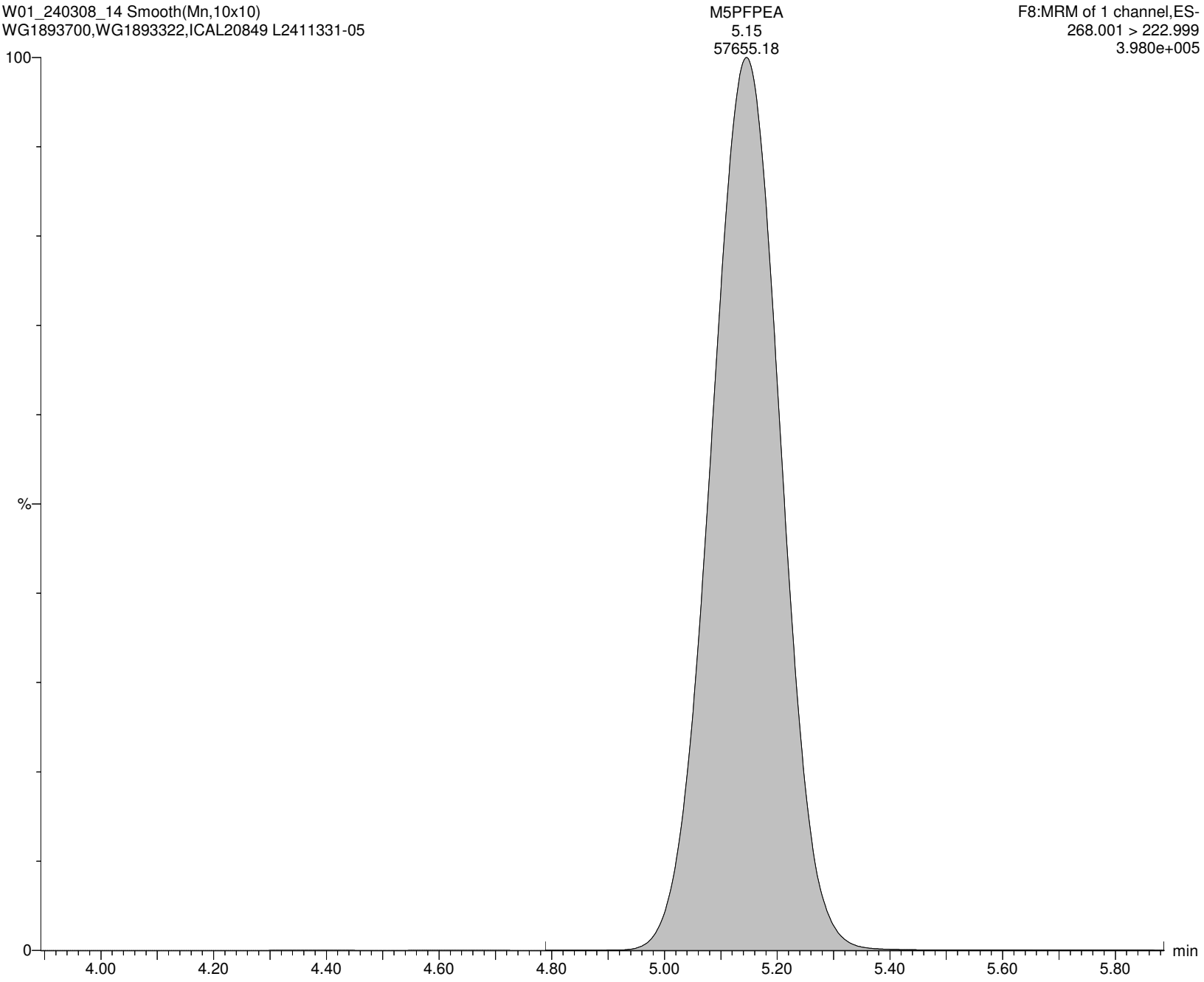

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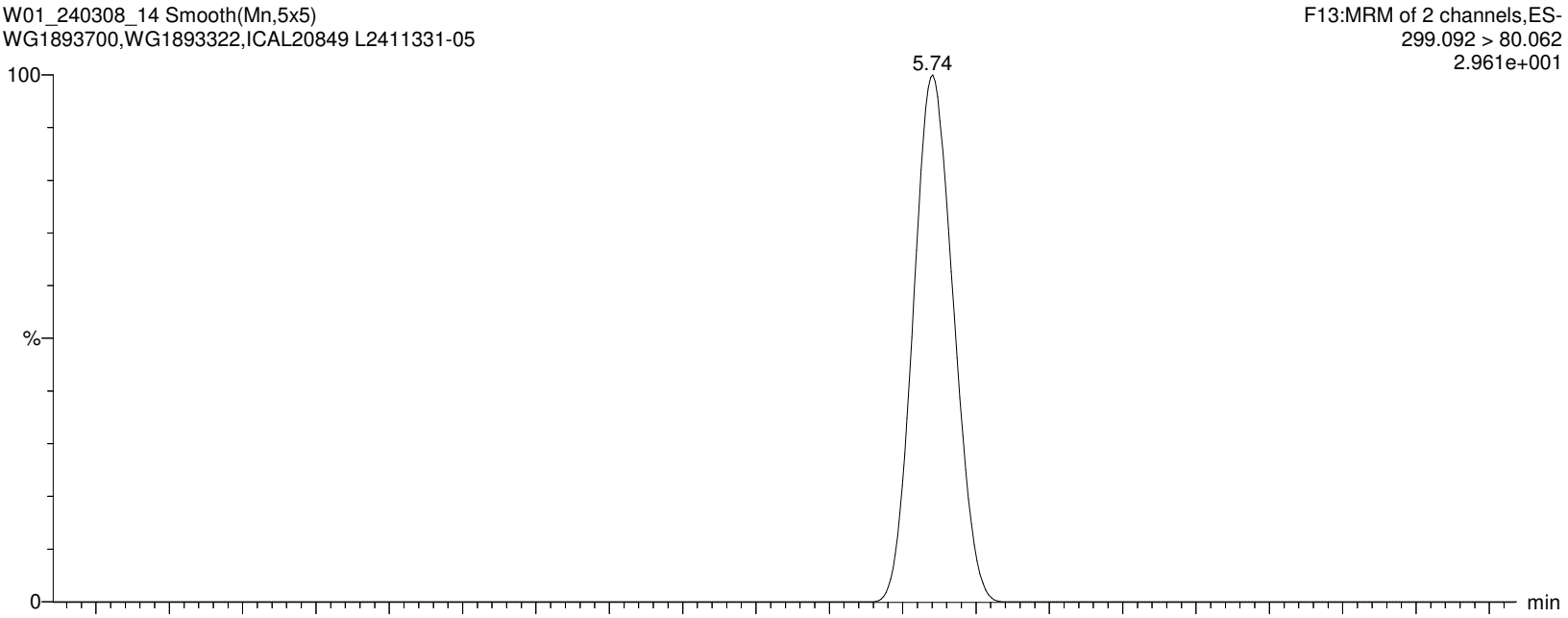
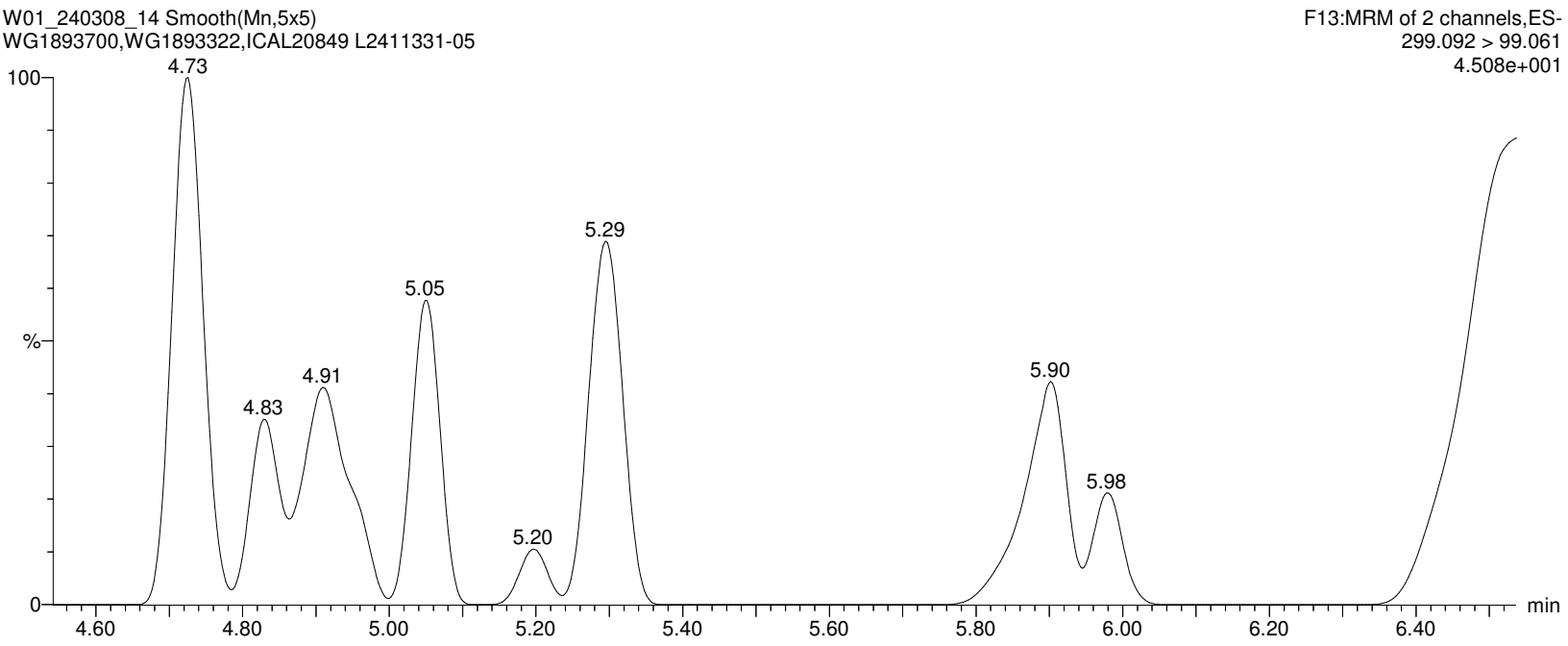
PFBS





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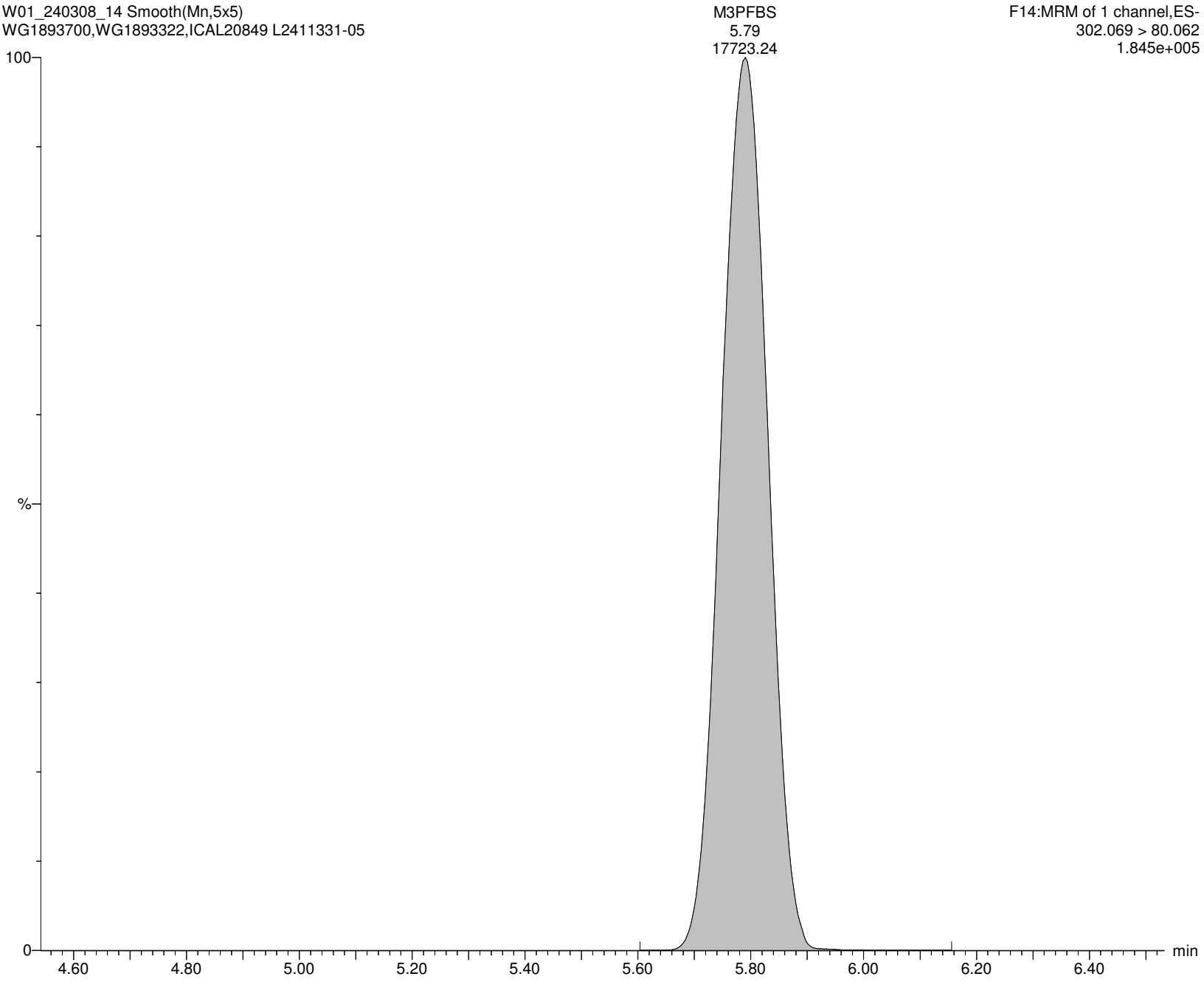

all concentration units in (ng/mL)

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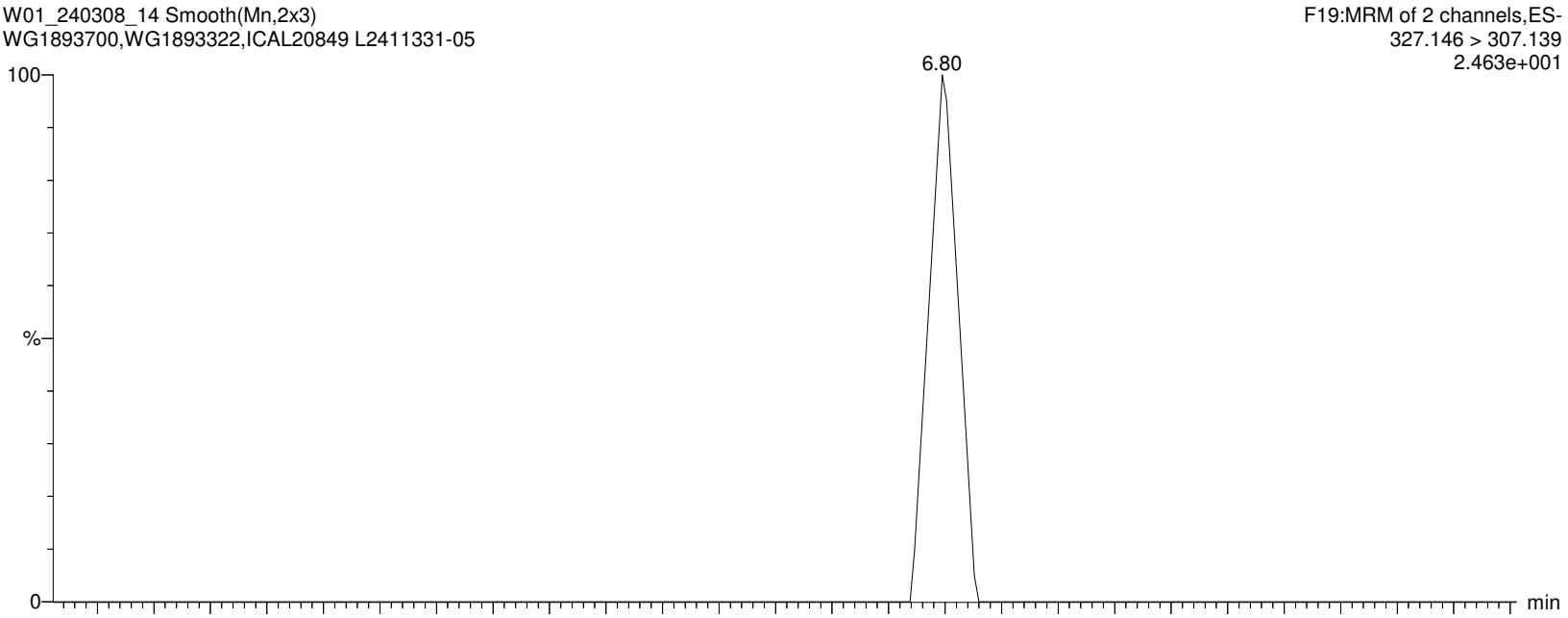
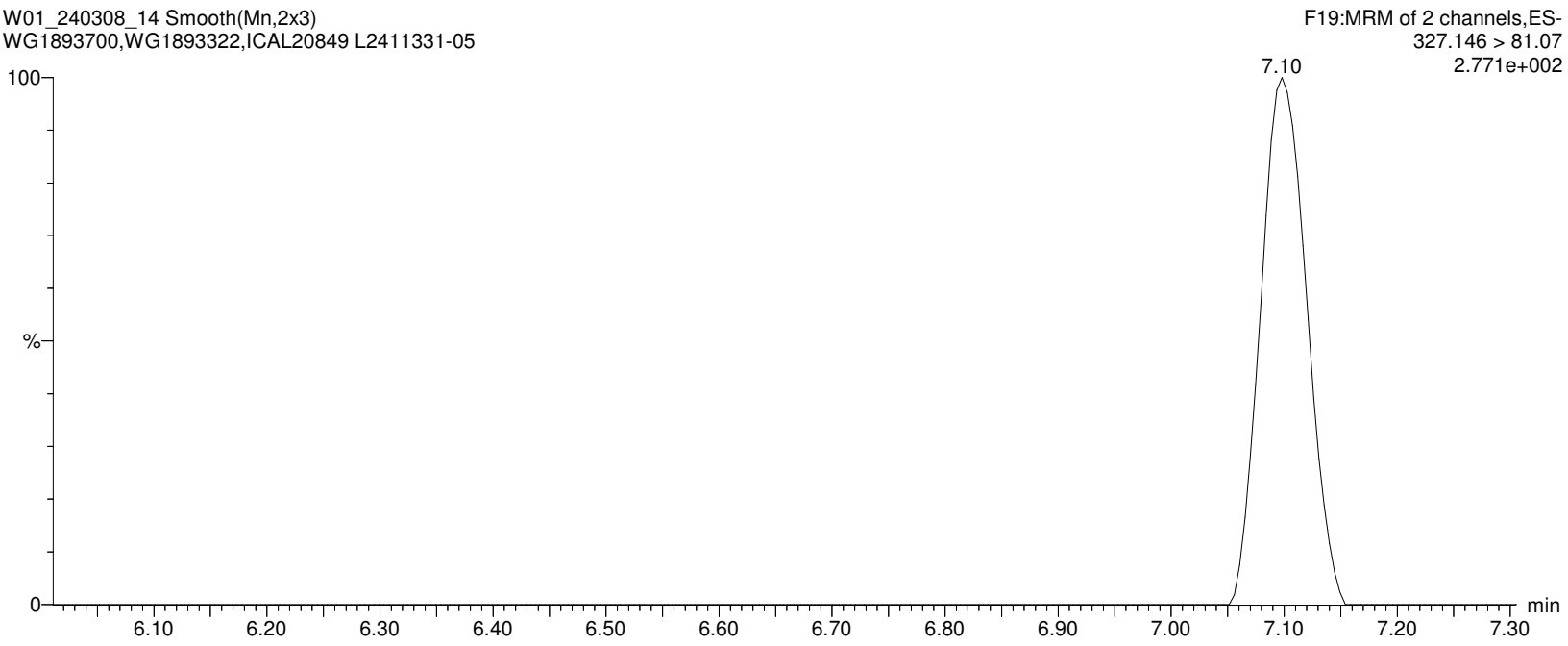
4:2FTS





all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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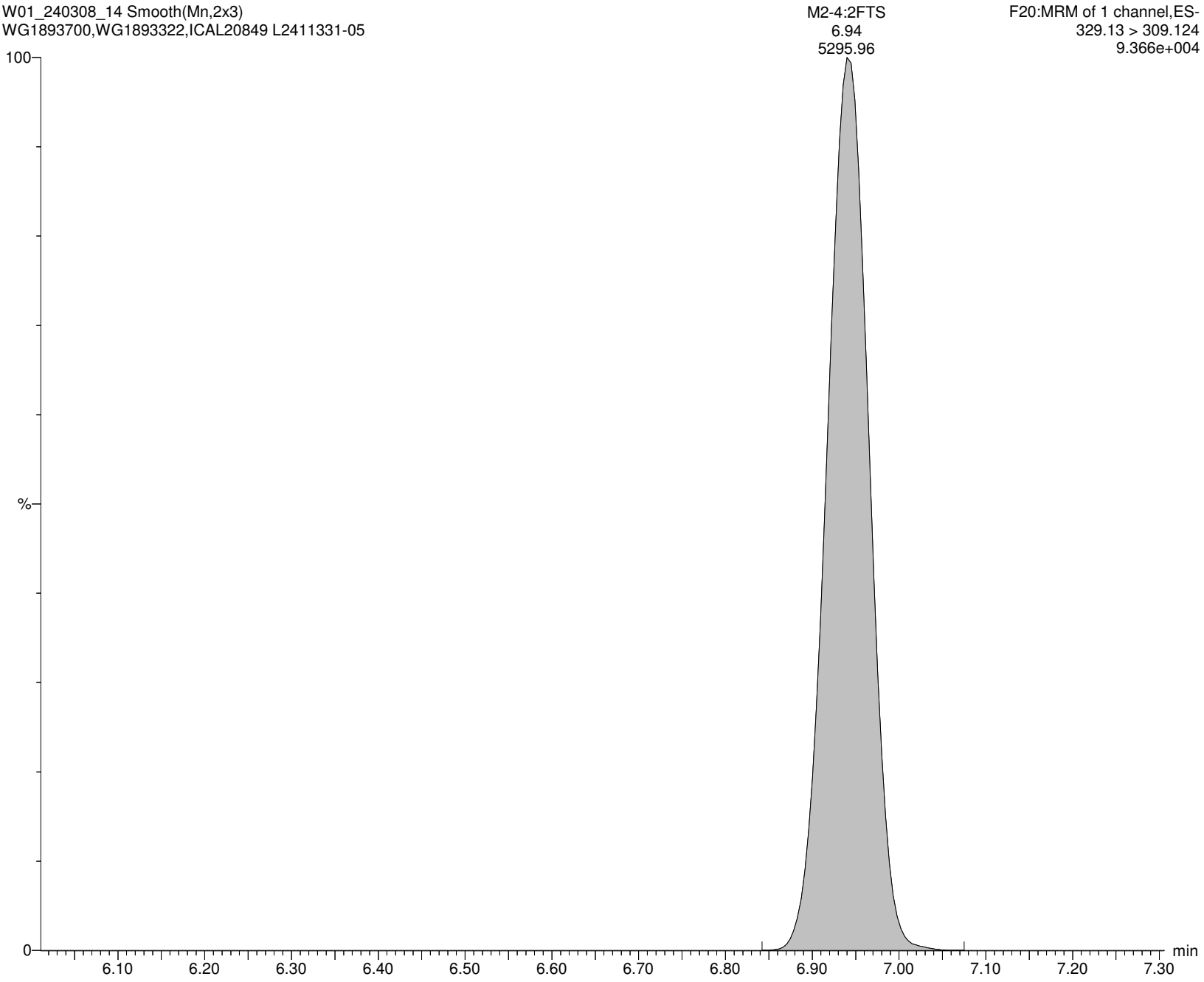

all concentration units in (ng/mL)

Alpha Analytical Inc.
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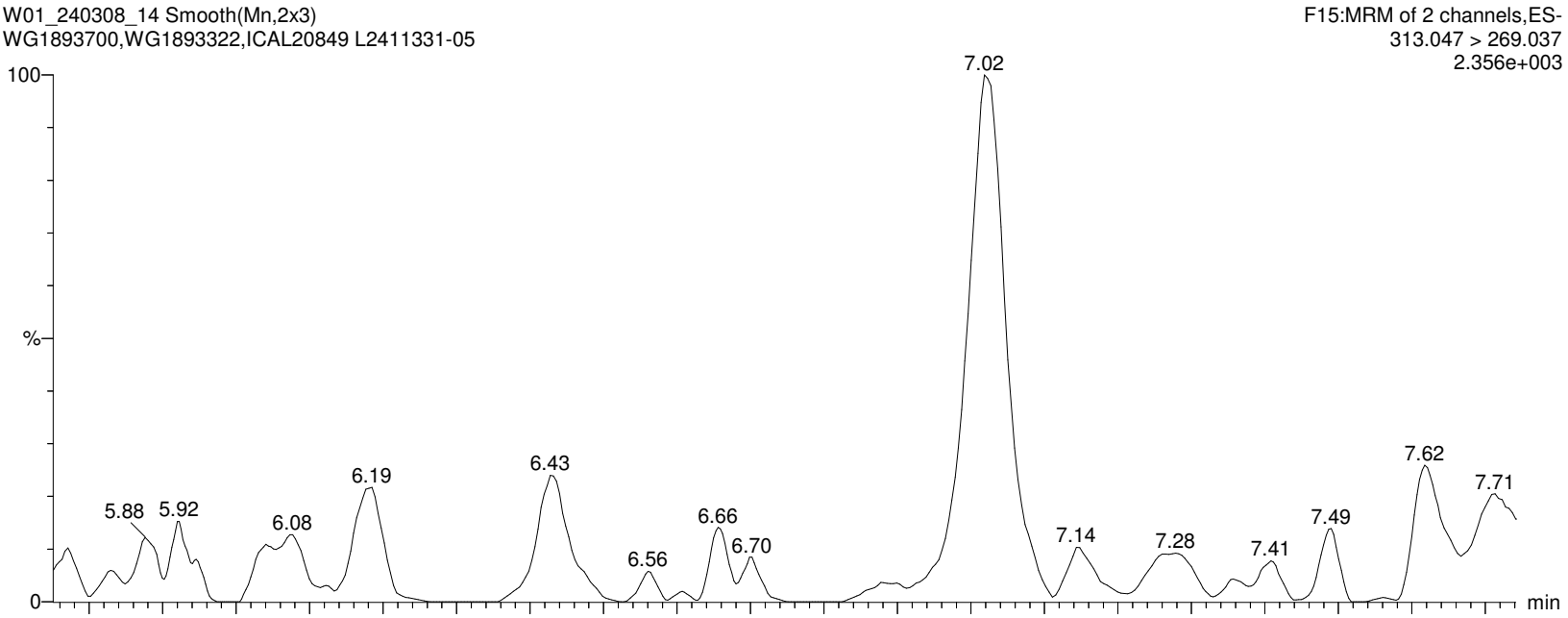

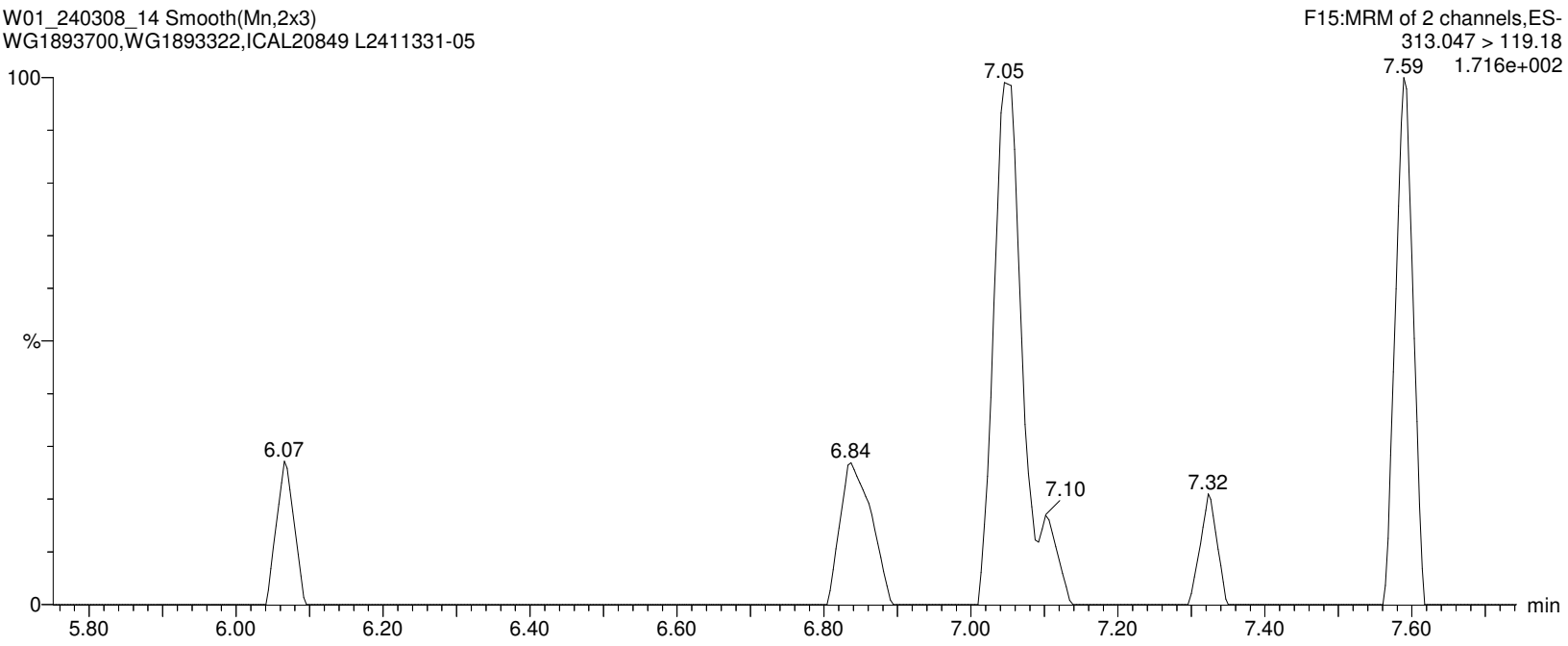

all concentration units in (ng/mL)

Alpha Analytical Inc.
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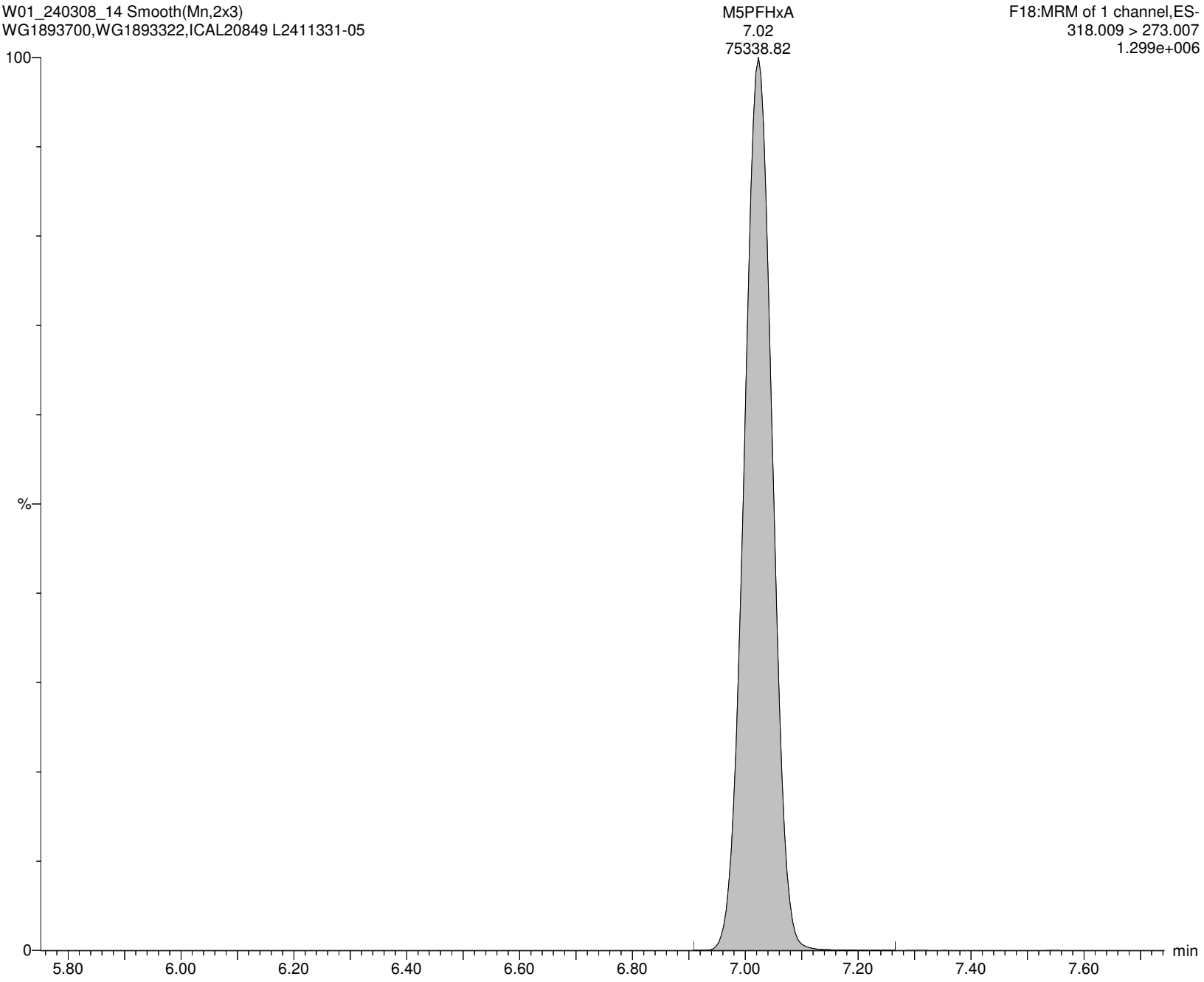

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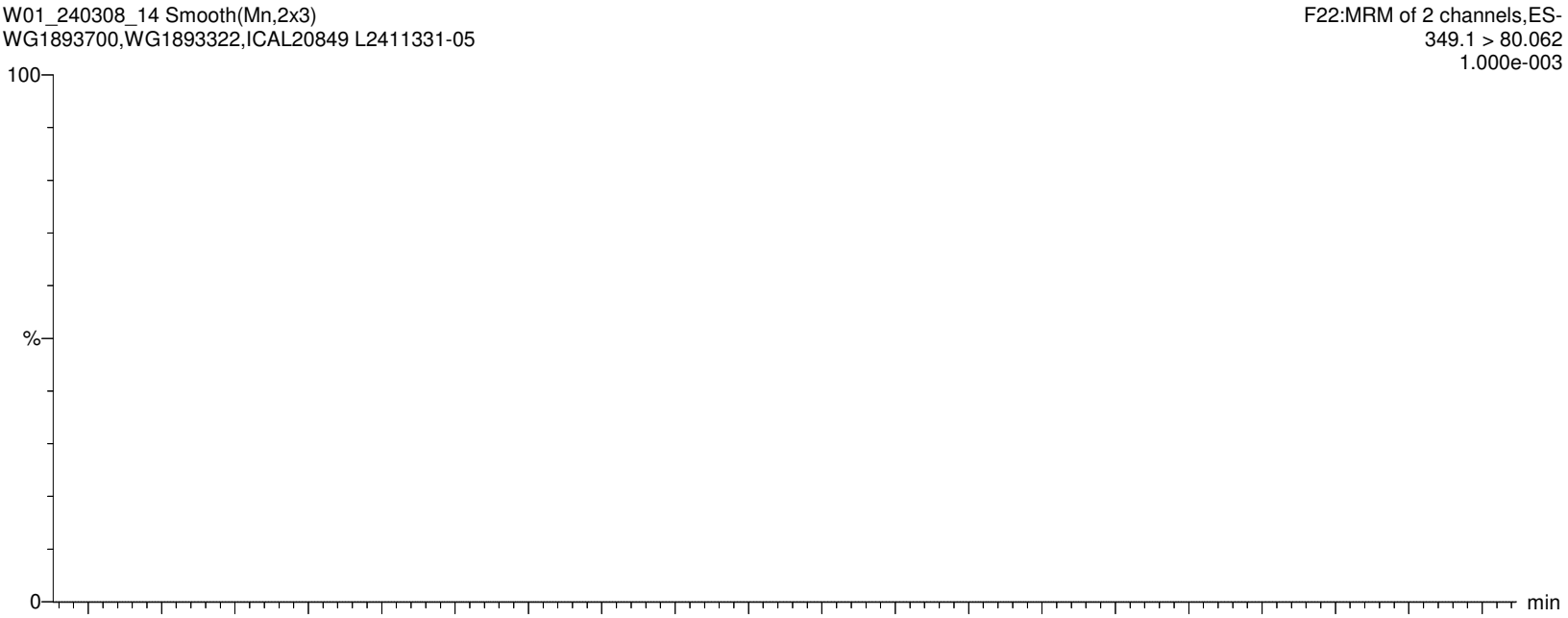
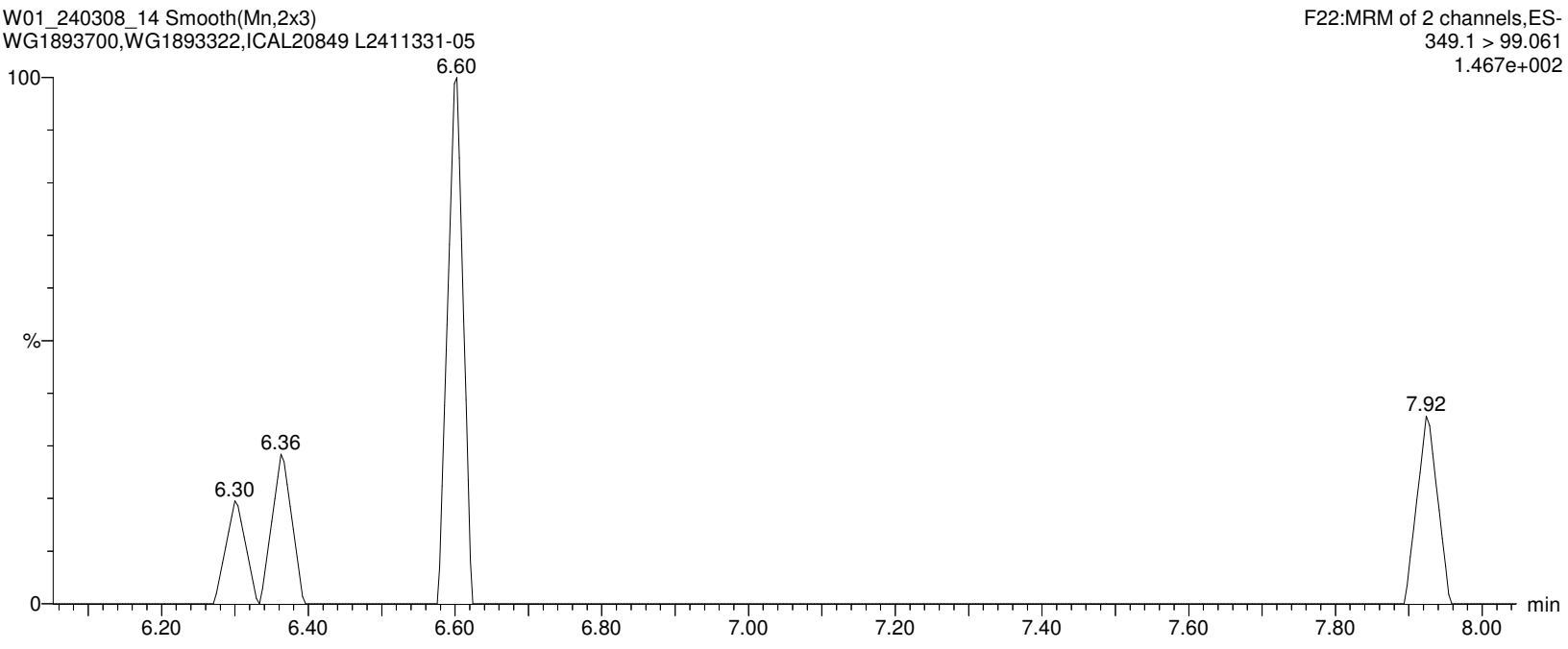
PFPeS





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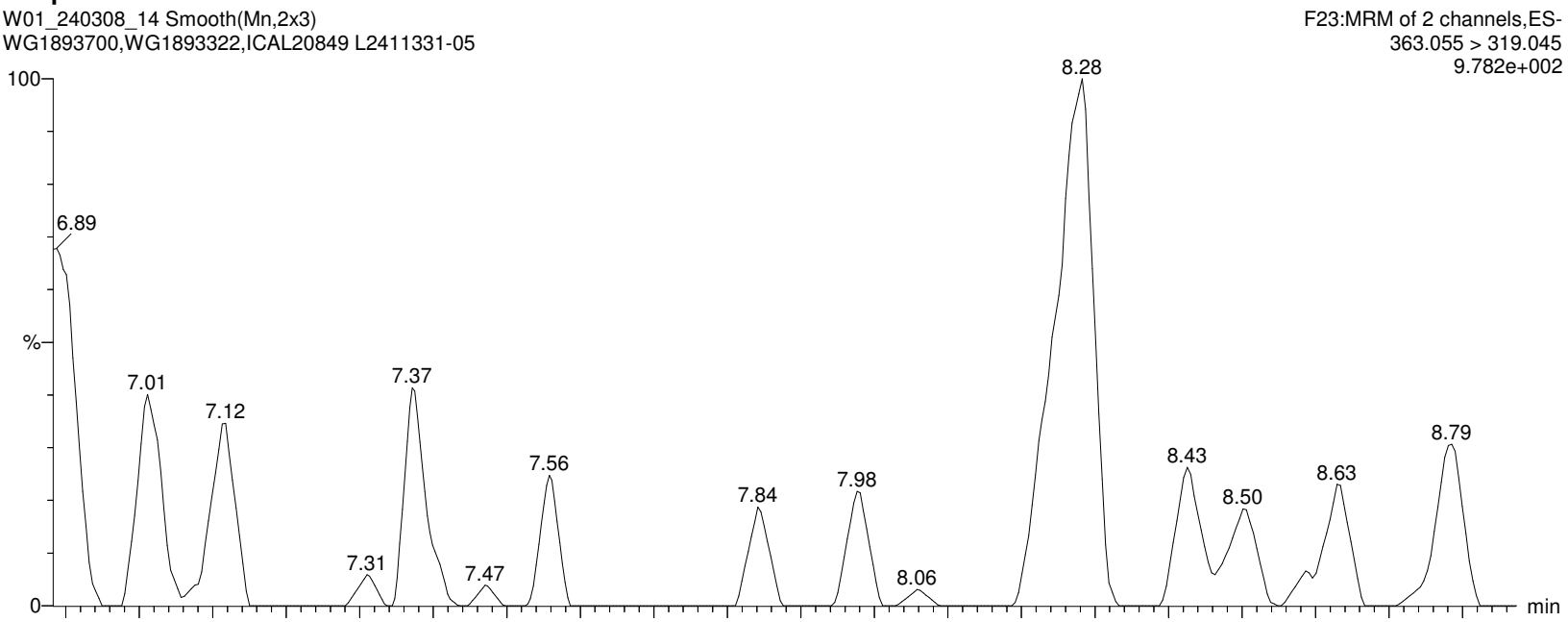

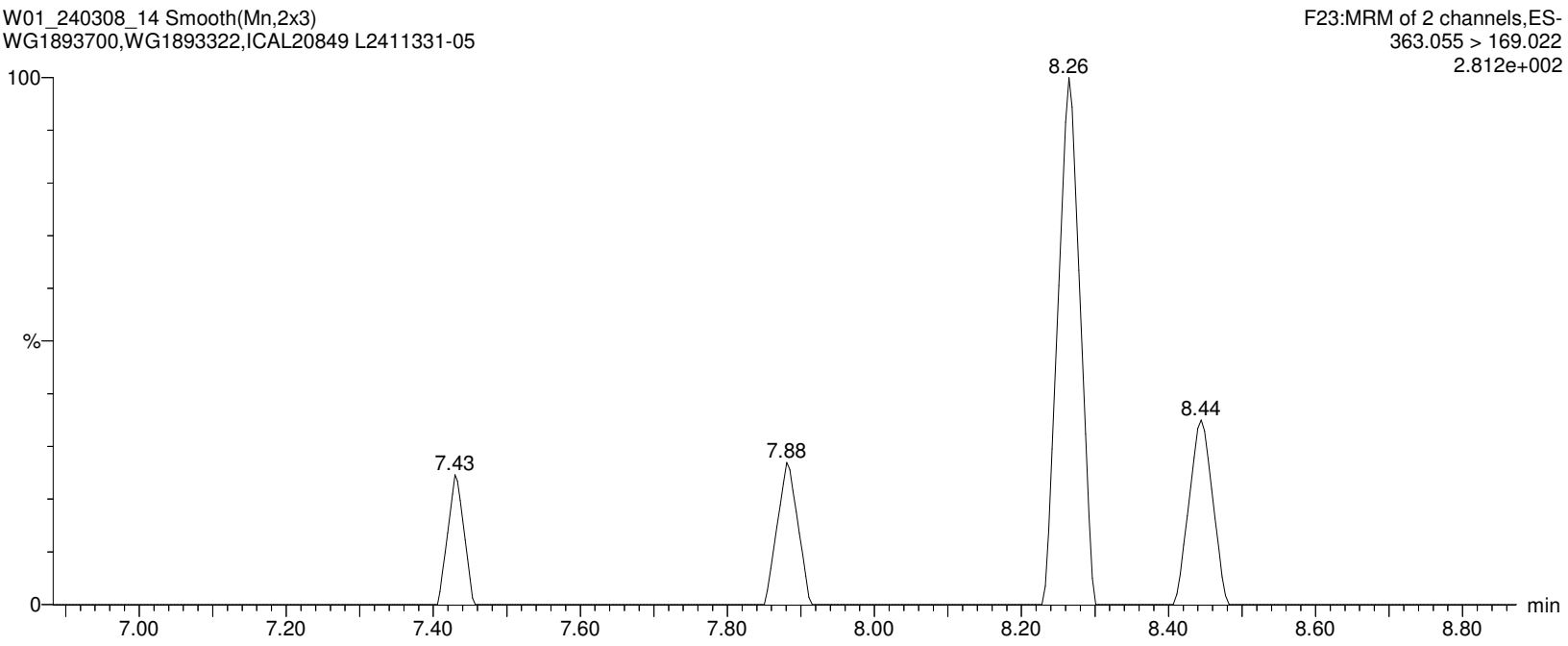

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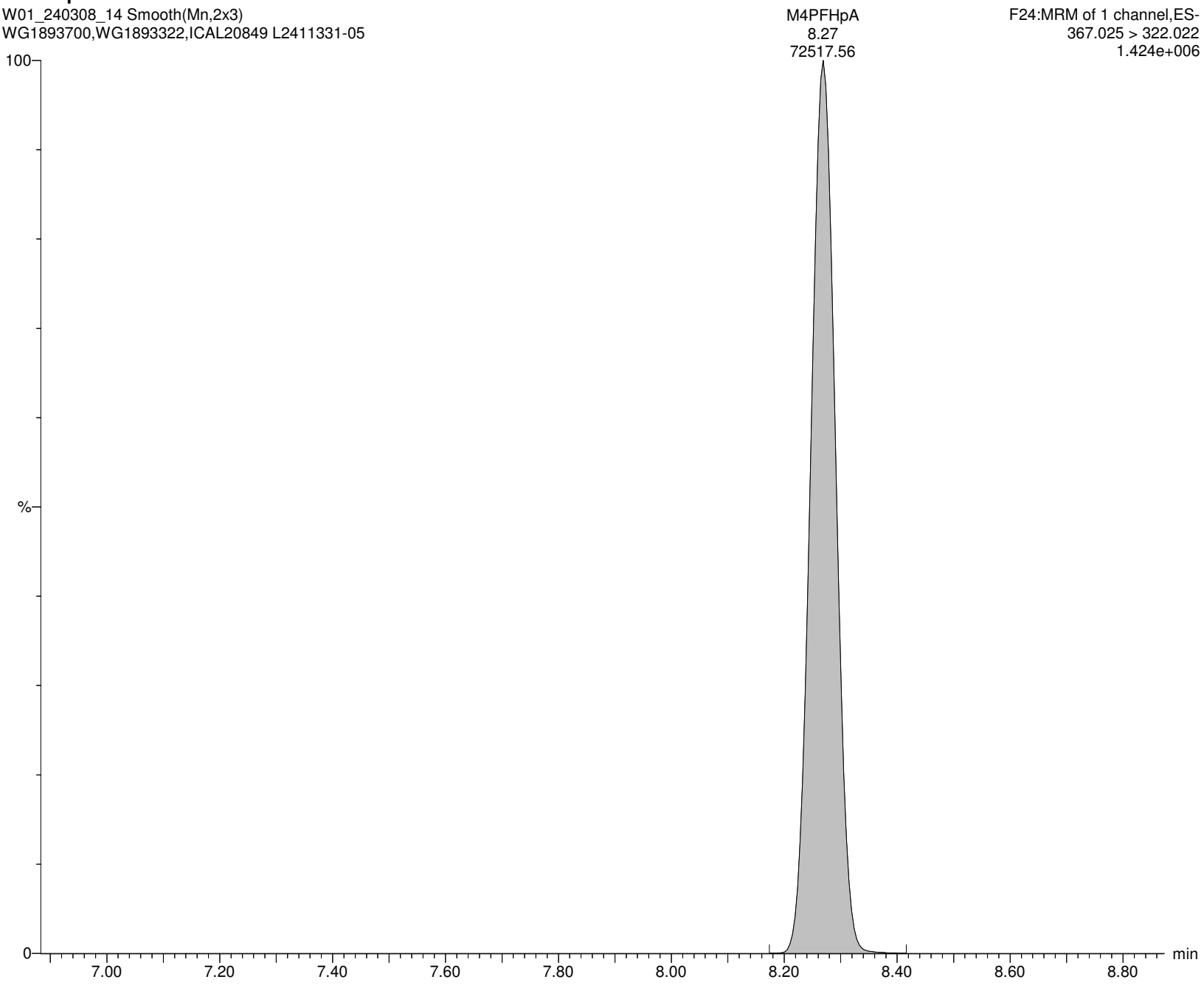

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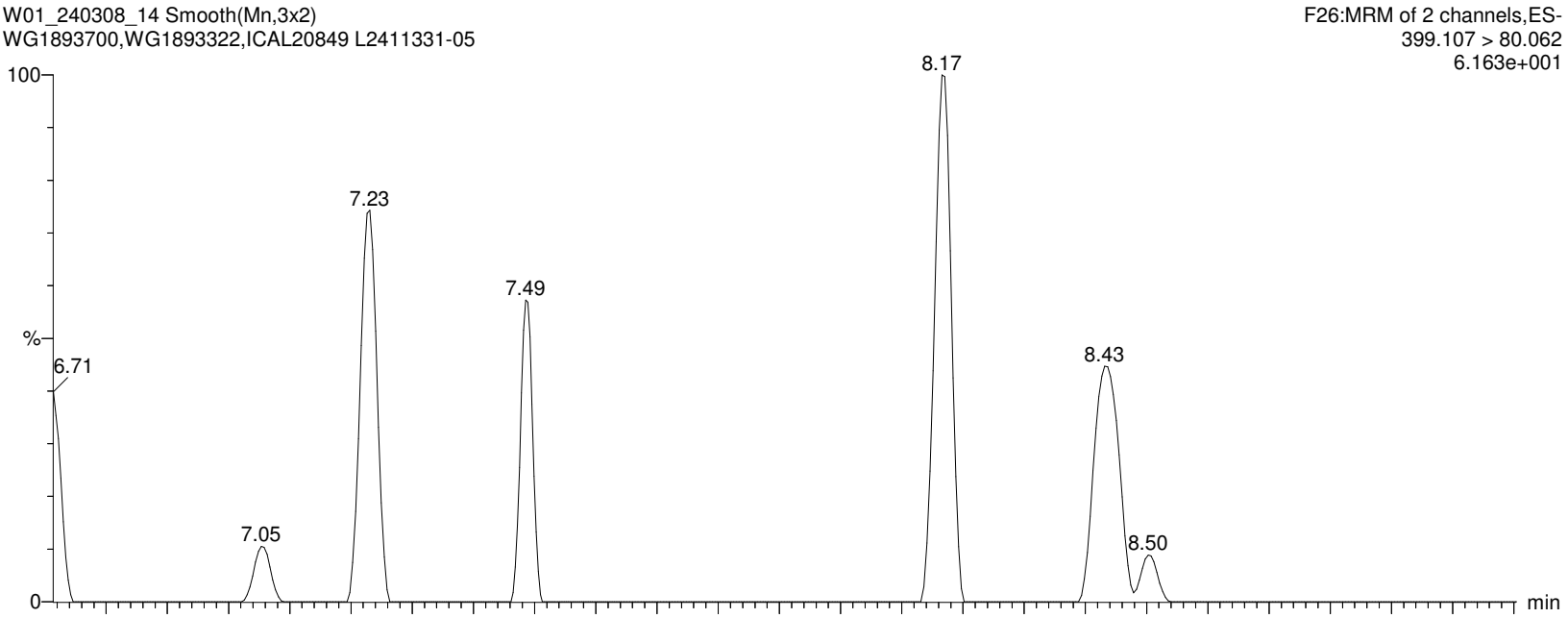

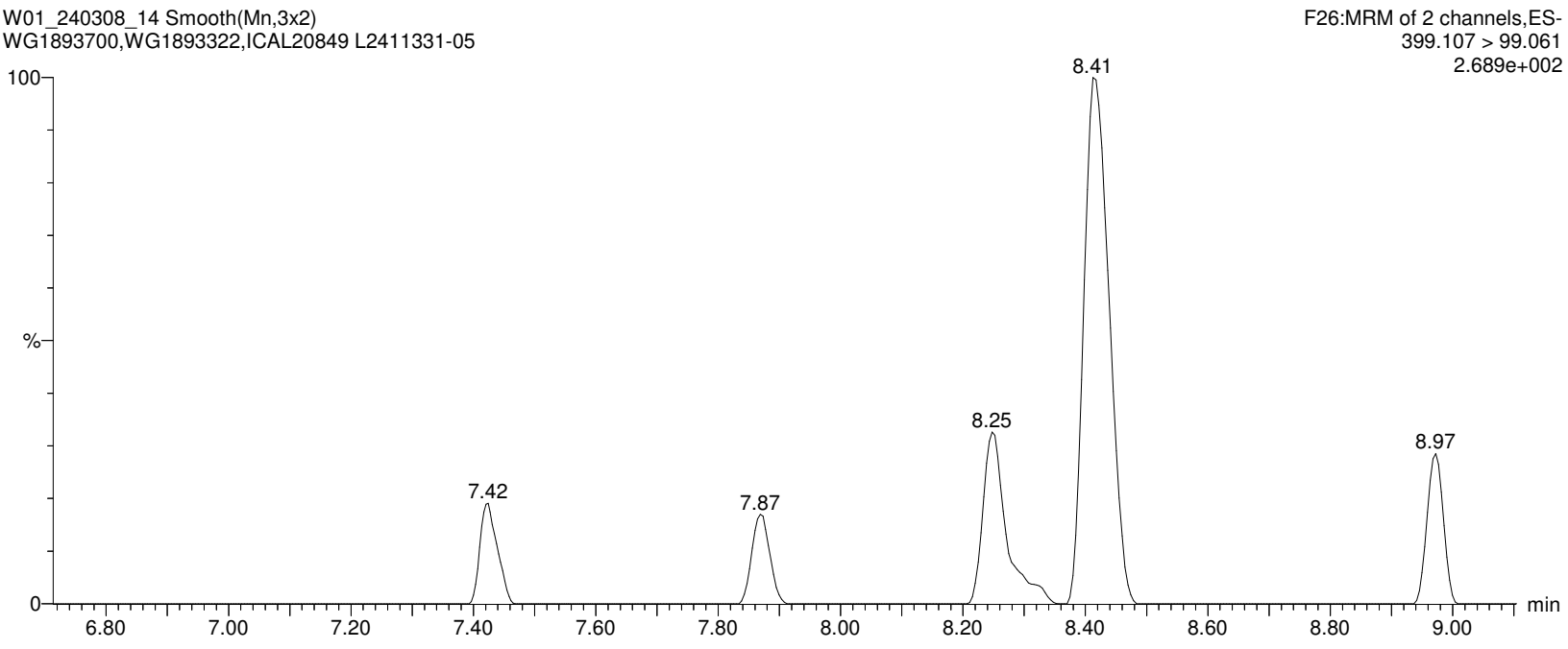

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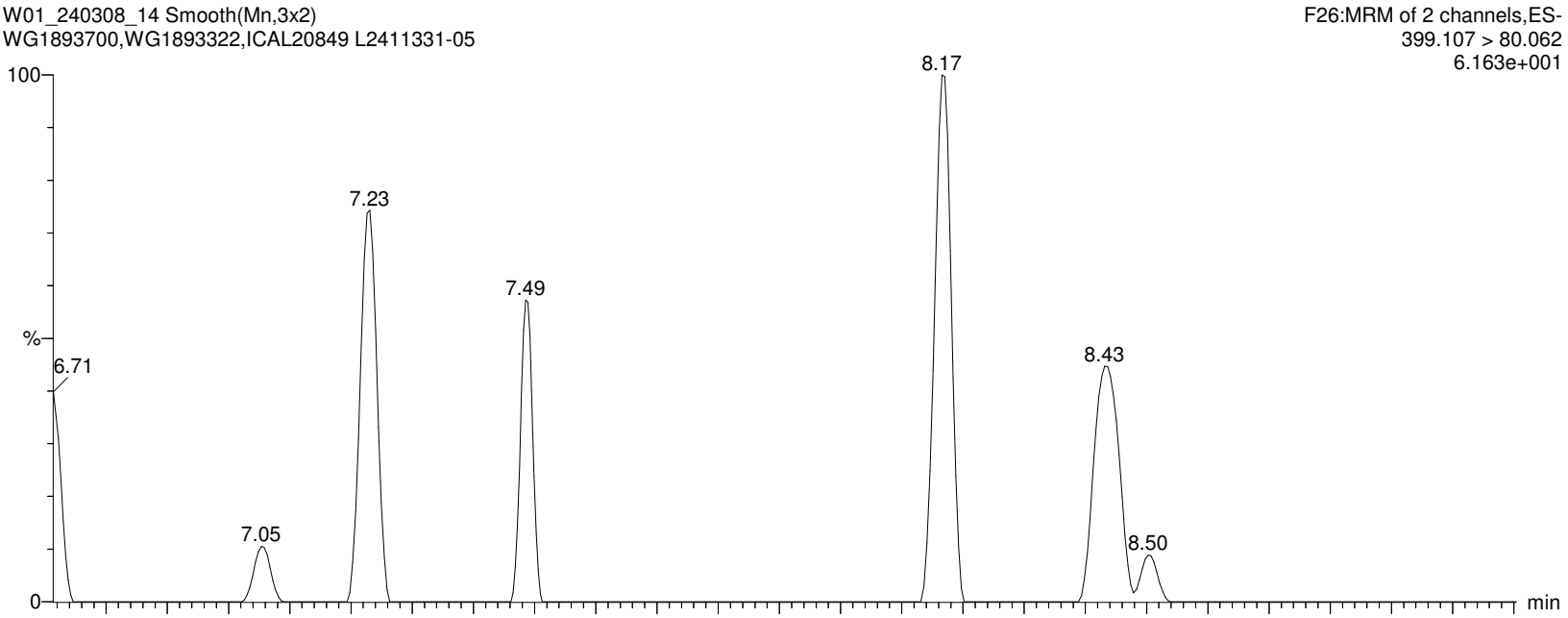

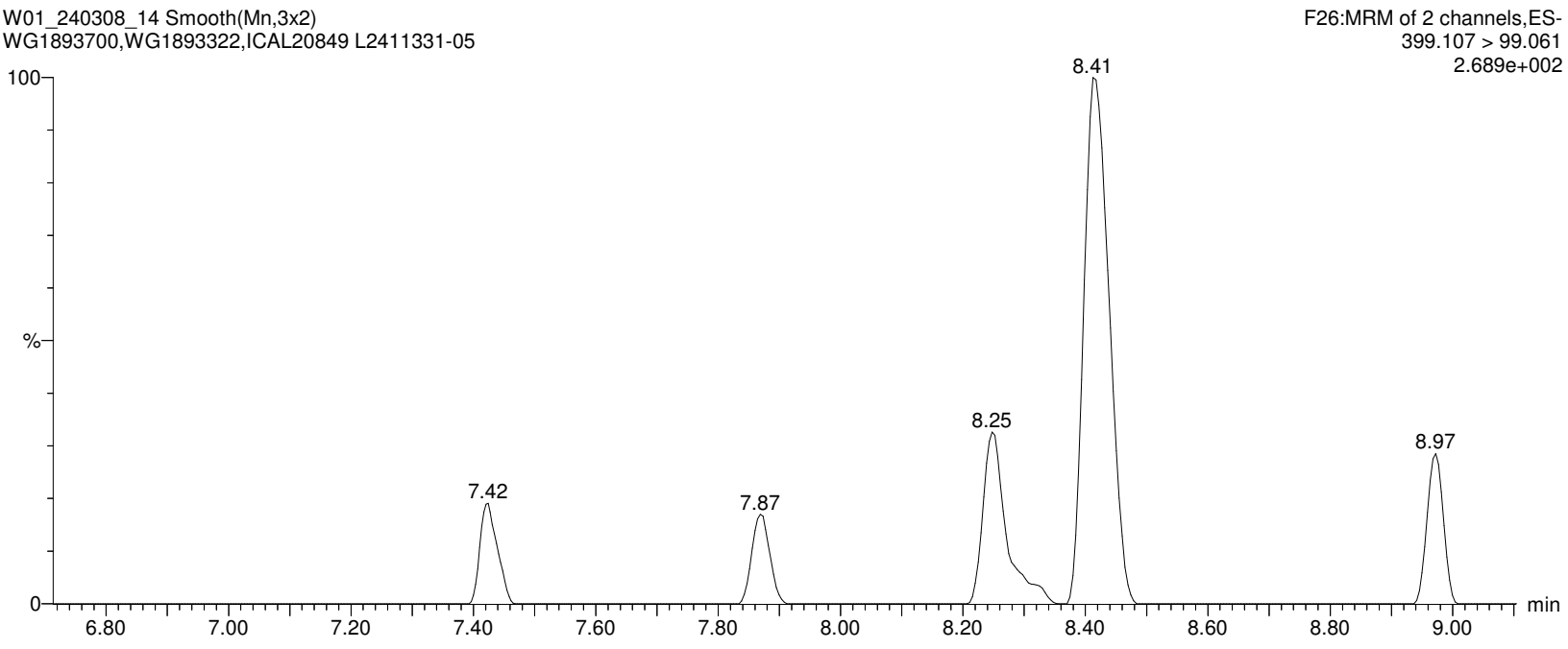

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:46 Eastern Standard Time

Name: W01_240308_14
ID: L2411331-05
Date: 08-Mar-2024
Time: 08:38:56
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:C,1
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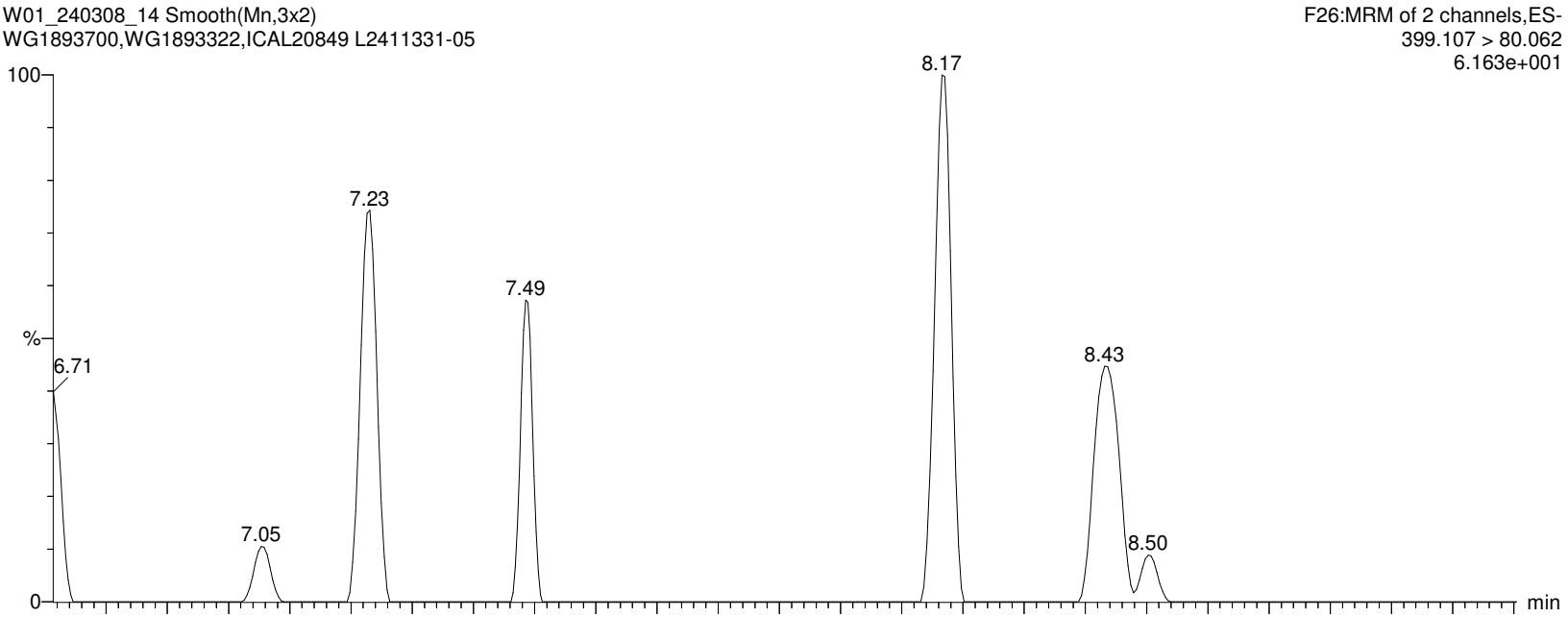

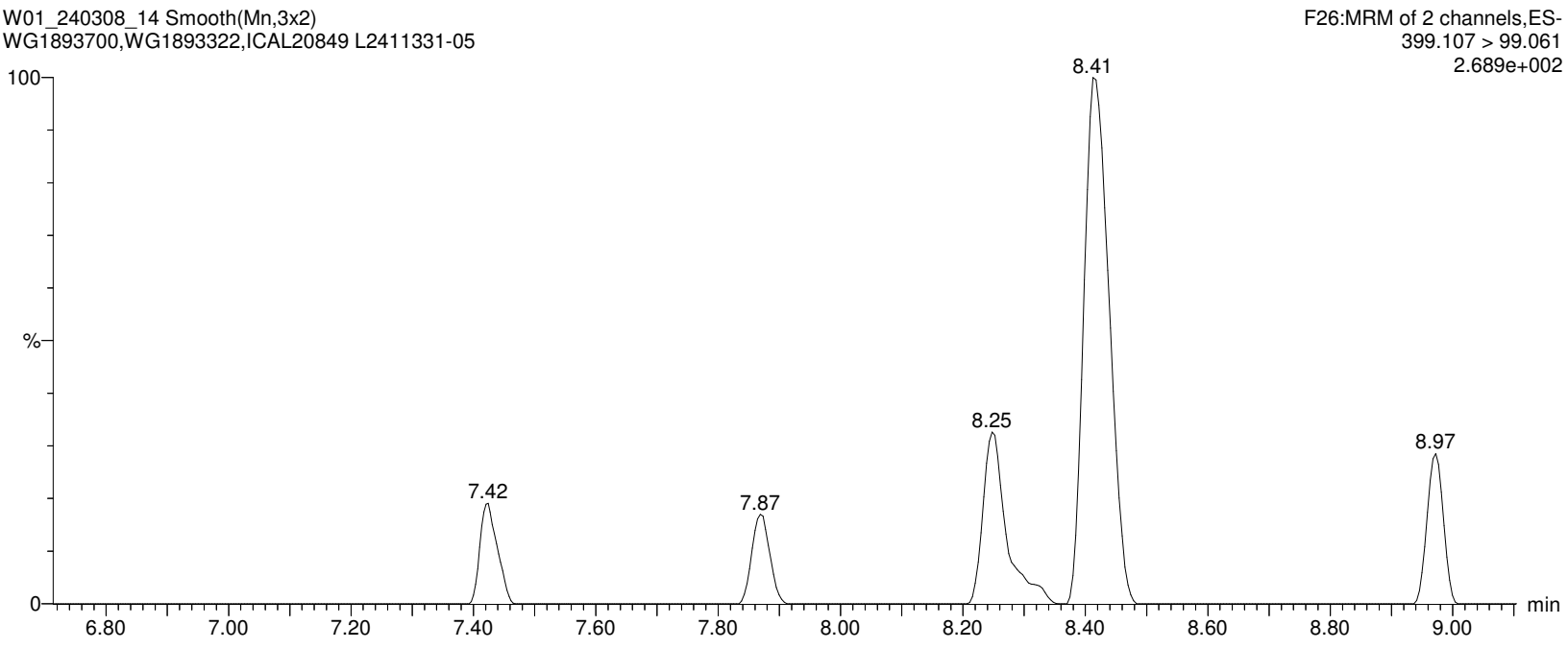

all concentration units in (ng/mL)

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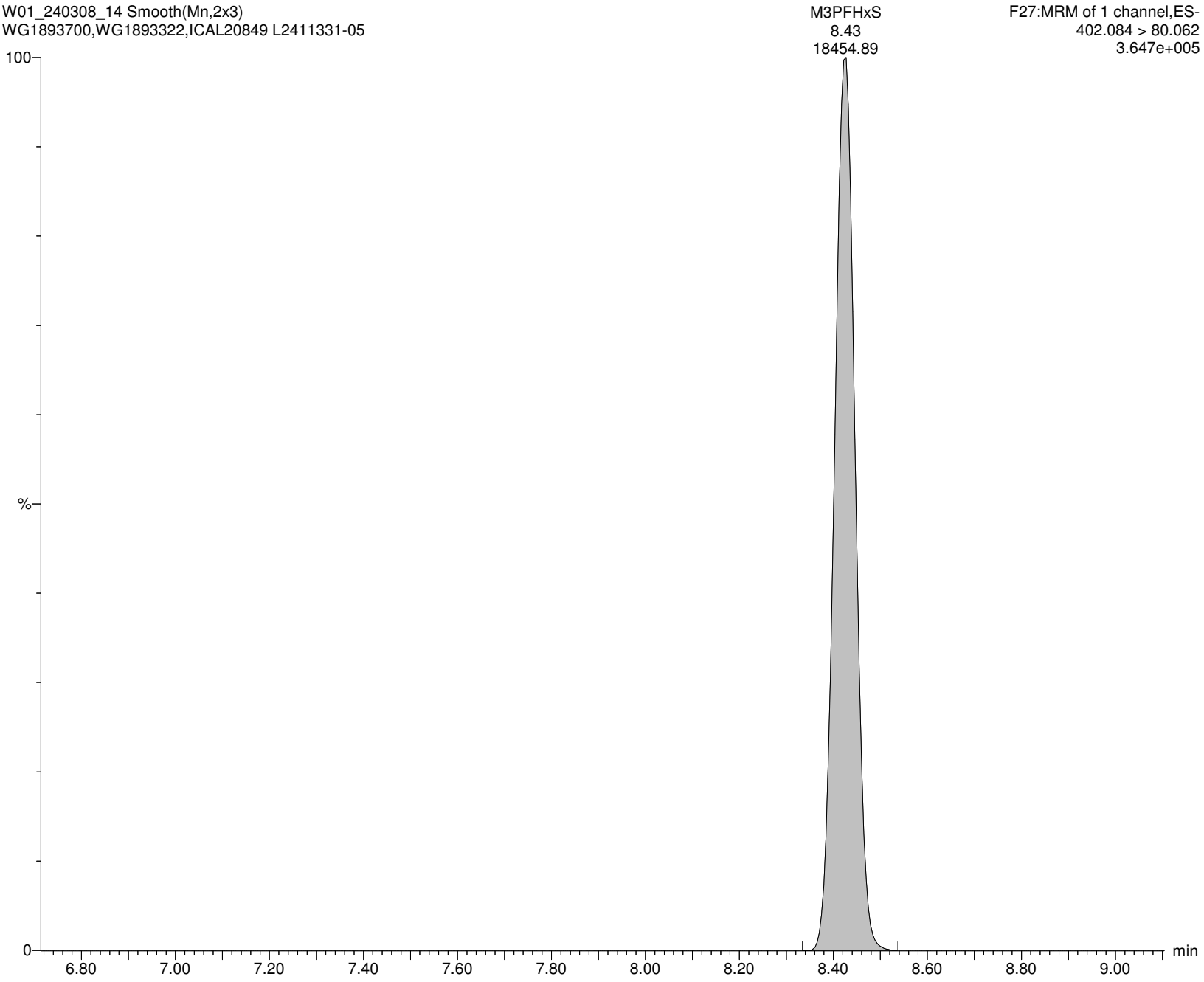

all concentration units in (ng/mL)

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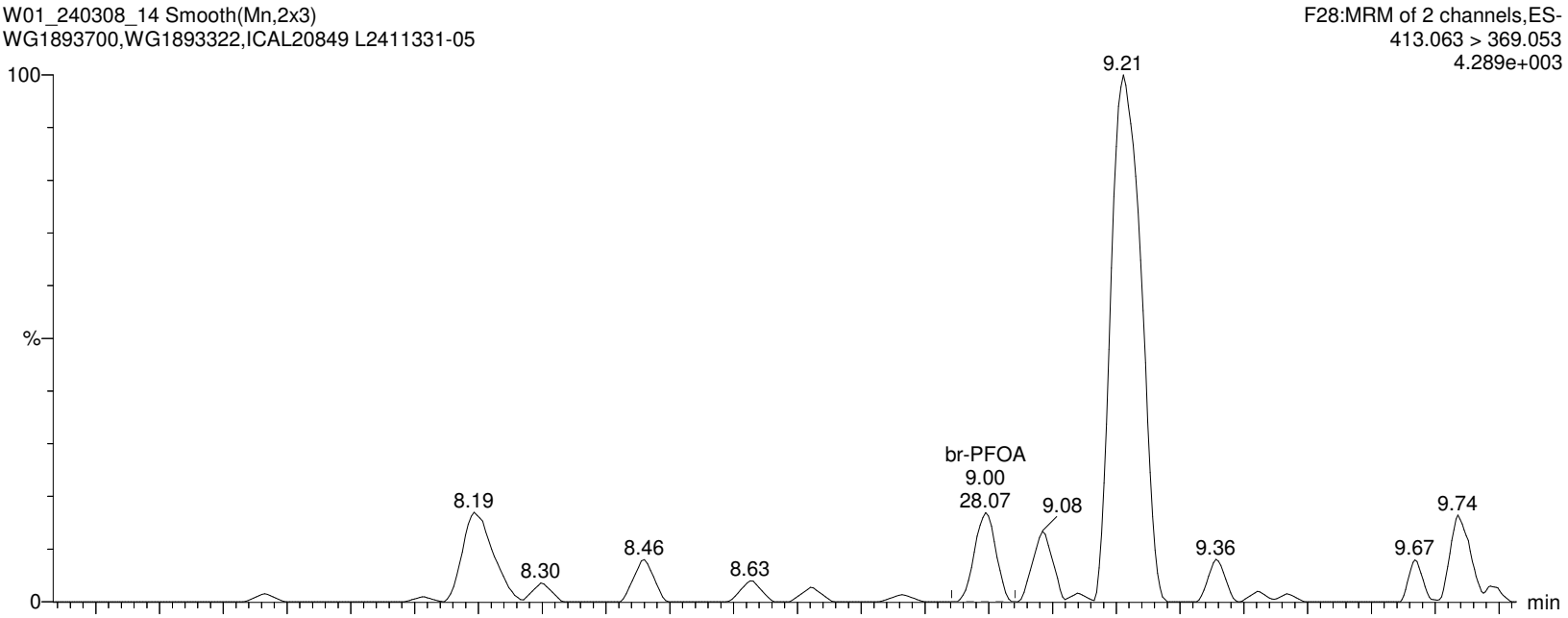

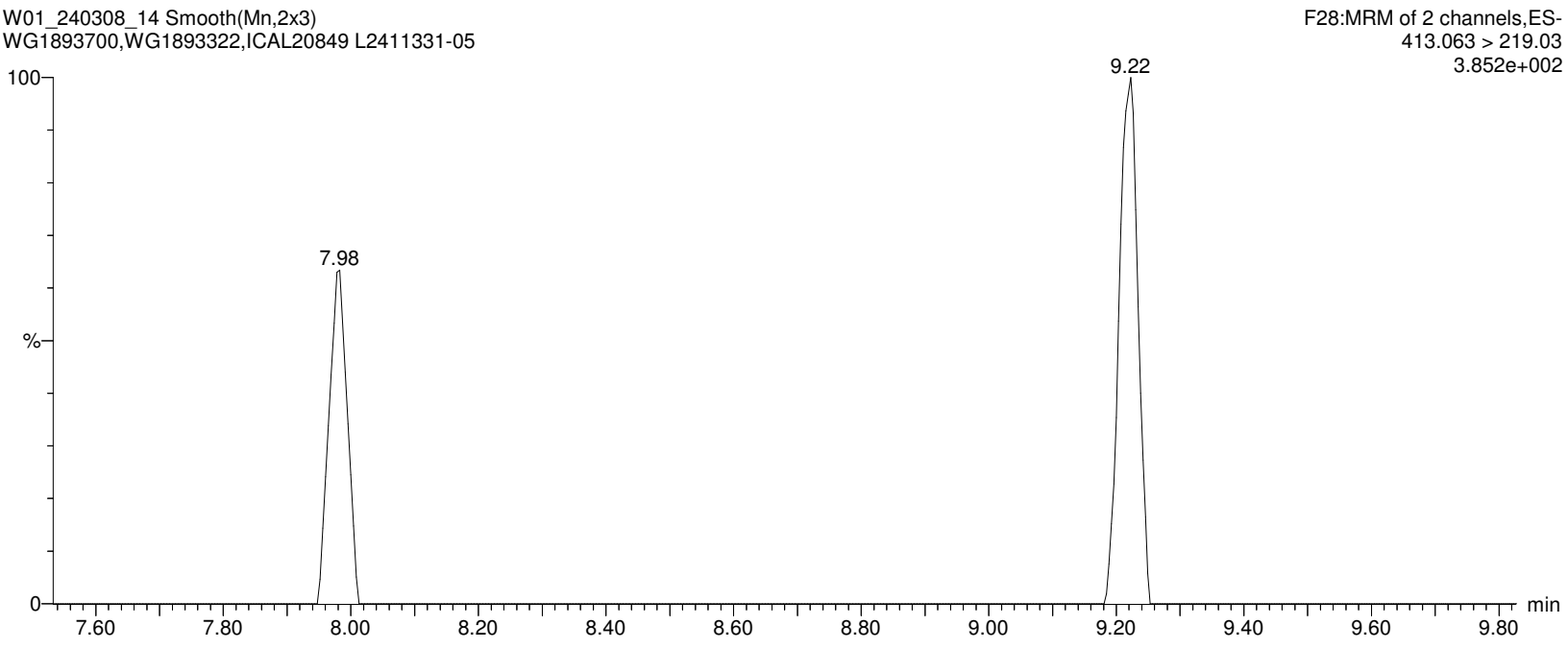

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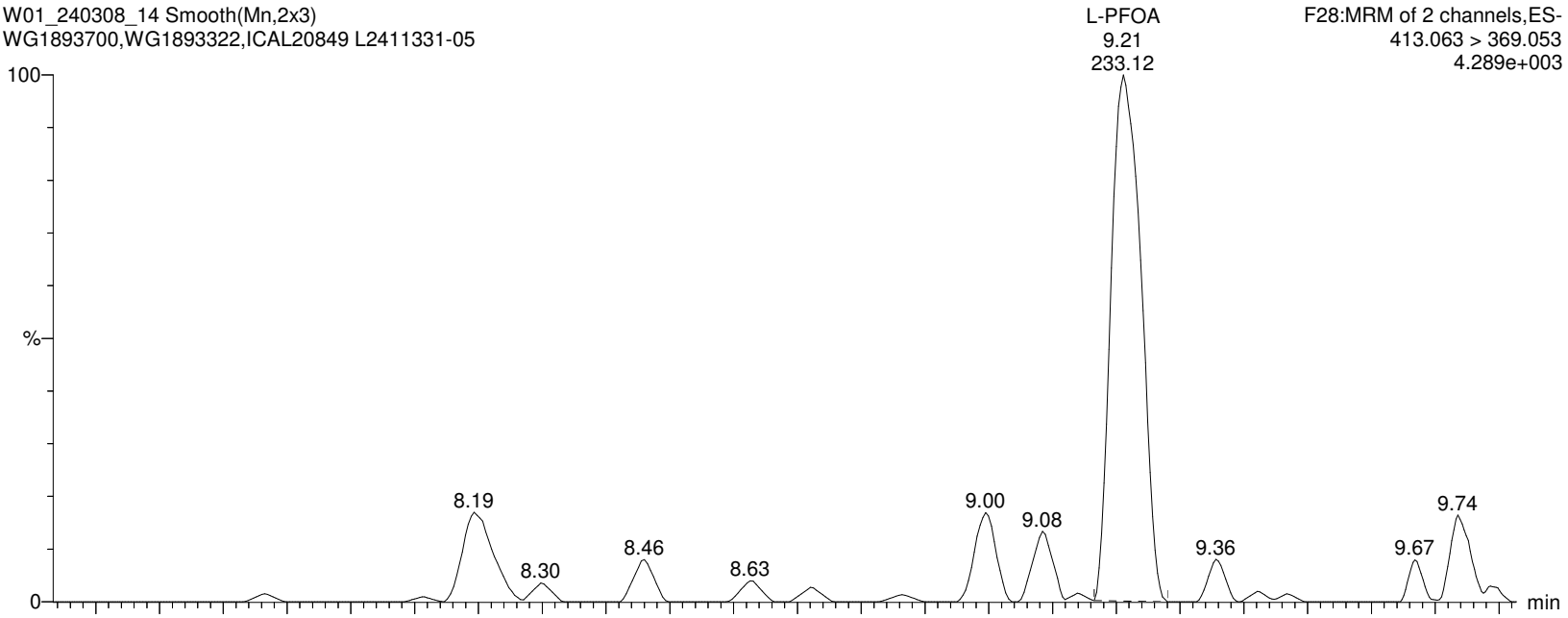

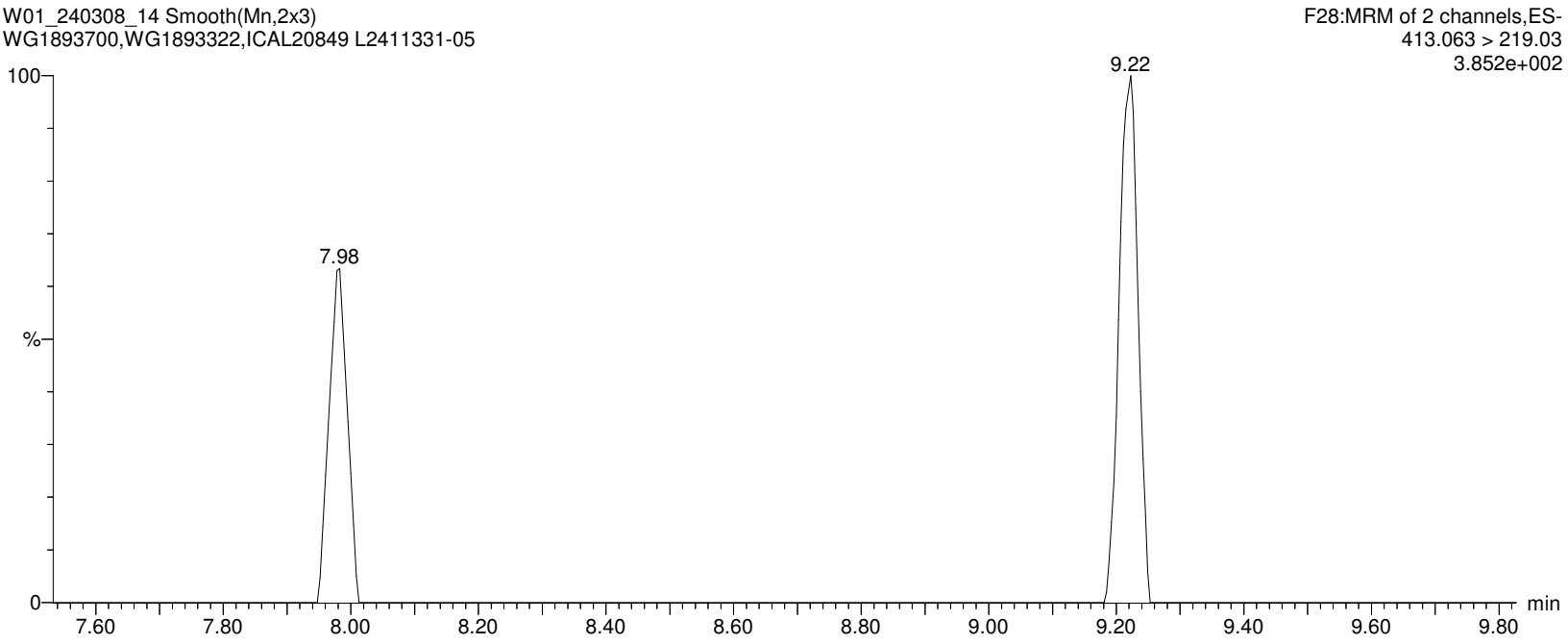

all concentration units in (ng/mL)

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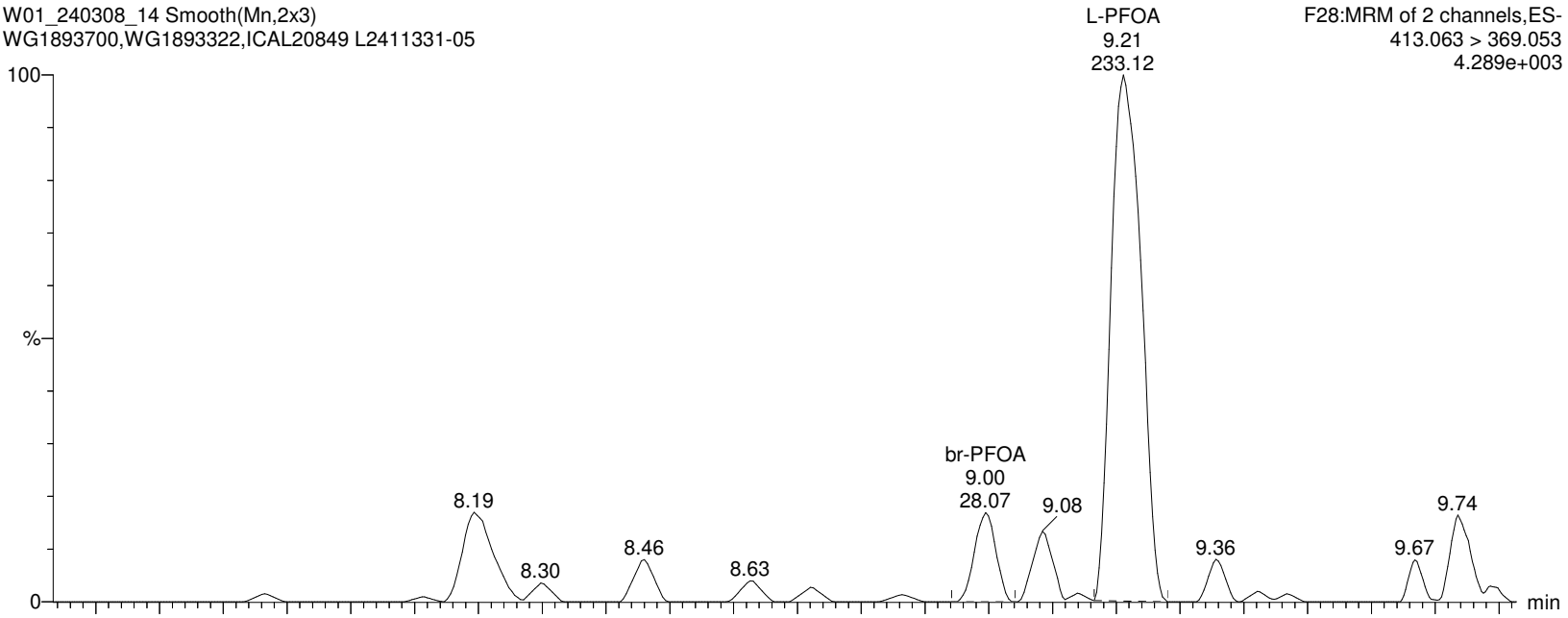

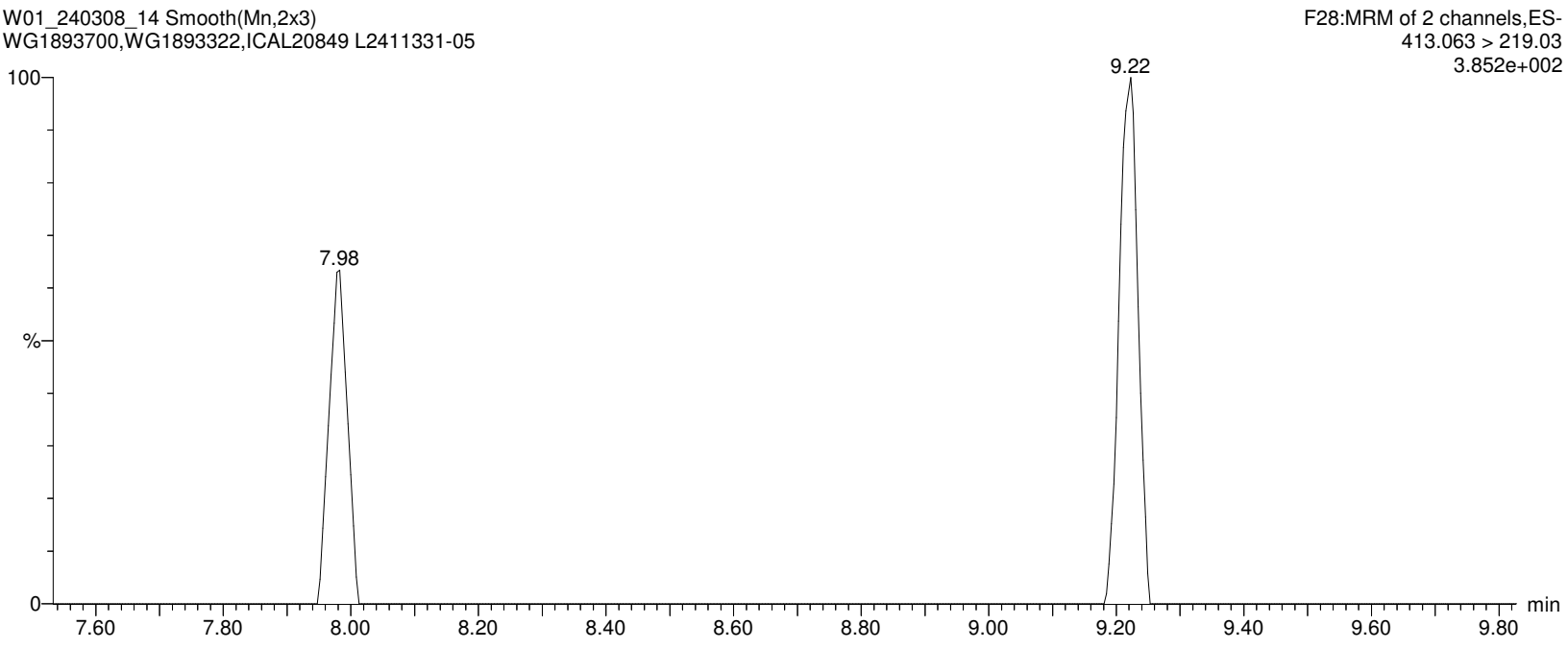

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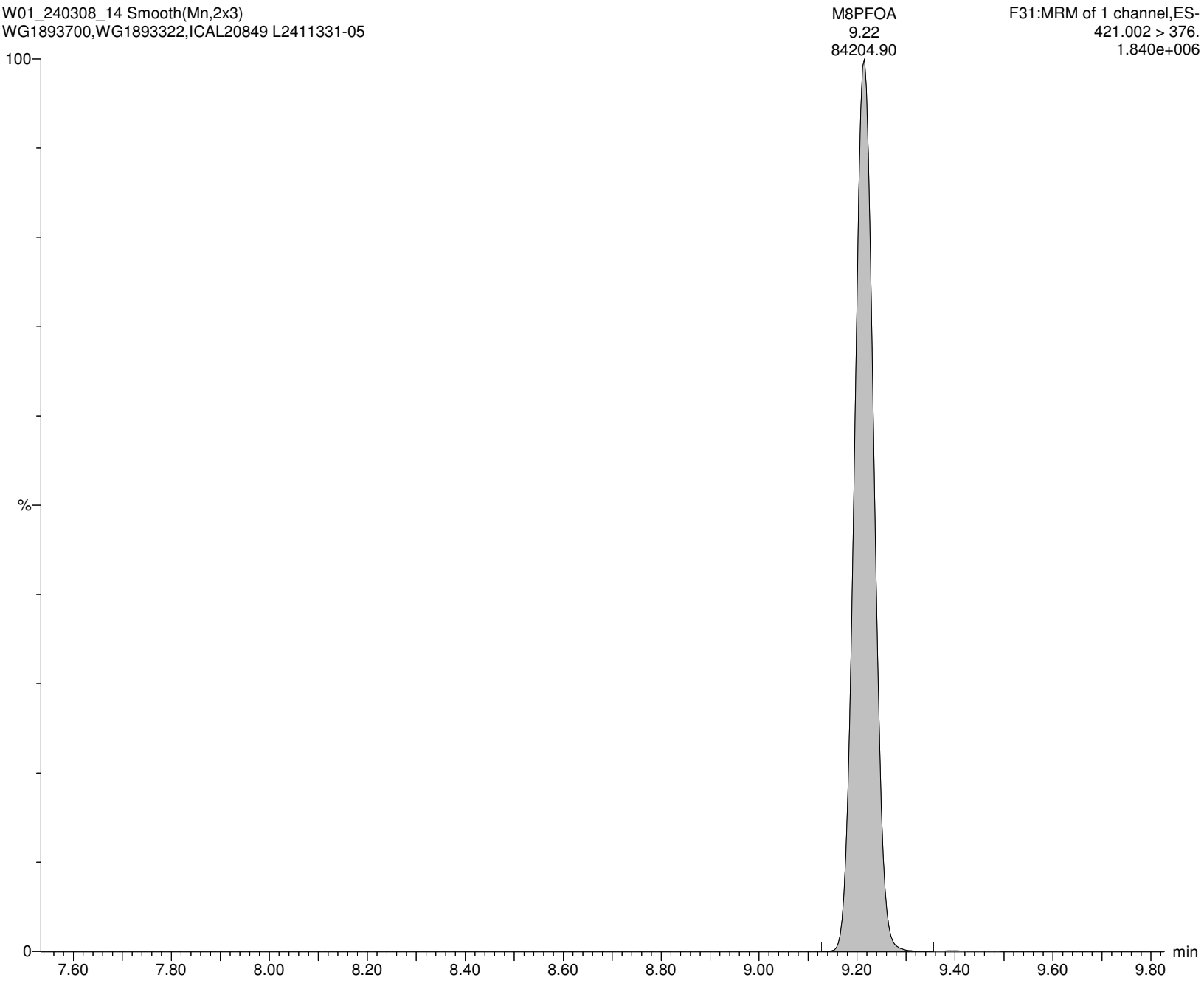

all concentration units in (ng/mL)

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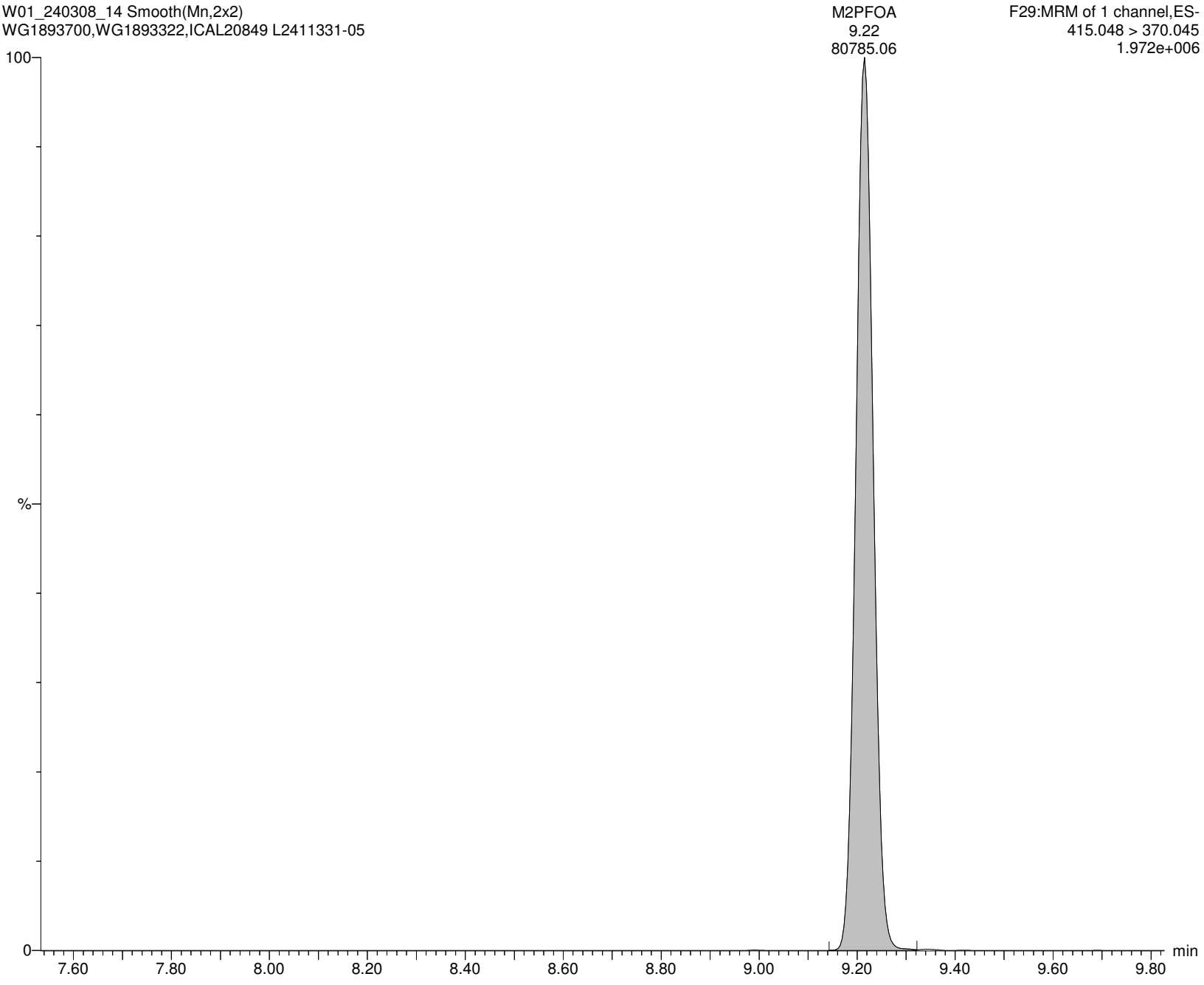

all concentration units in (ng/mL)

Alpha Analytical Inc.
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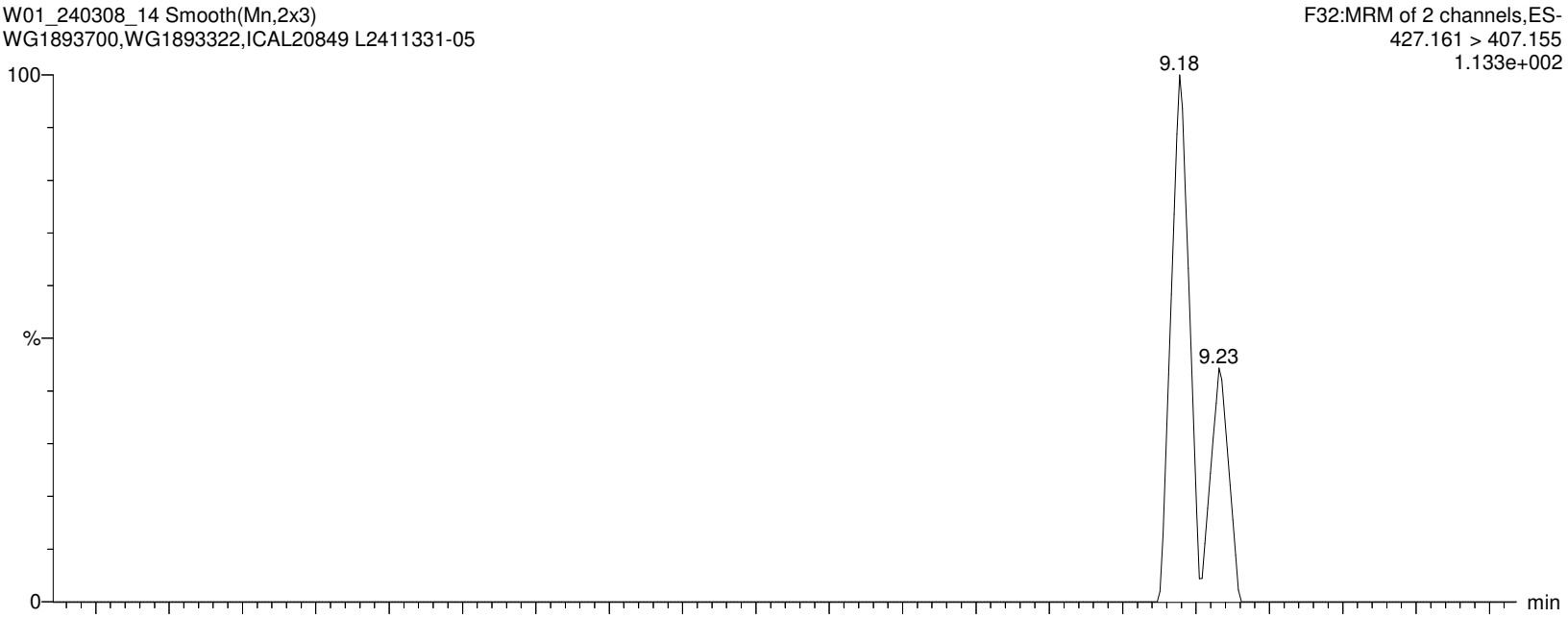

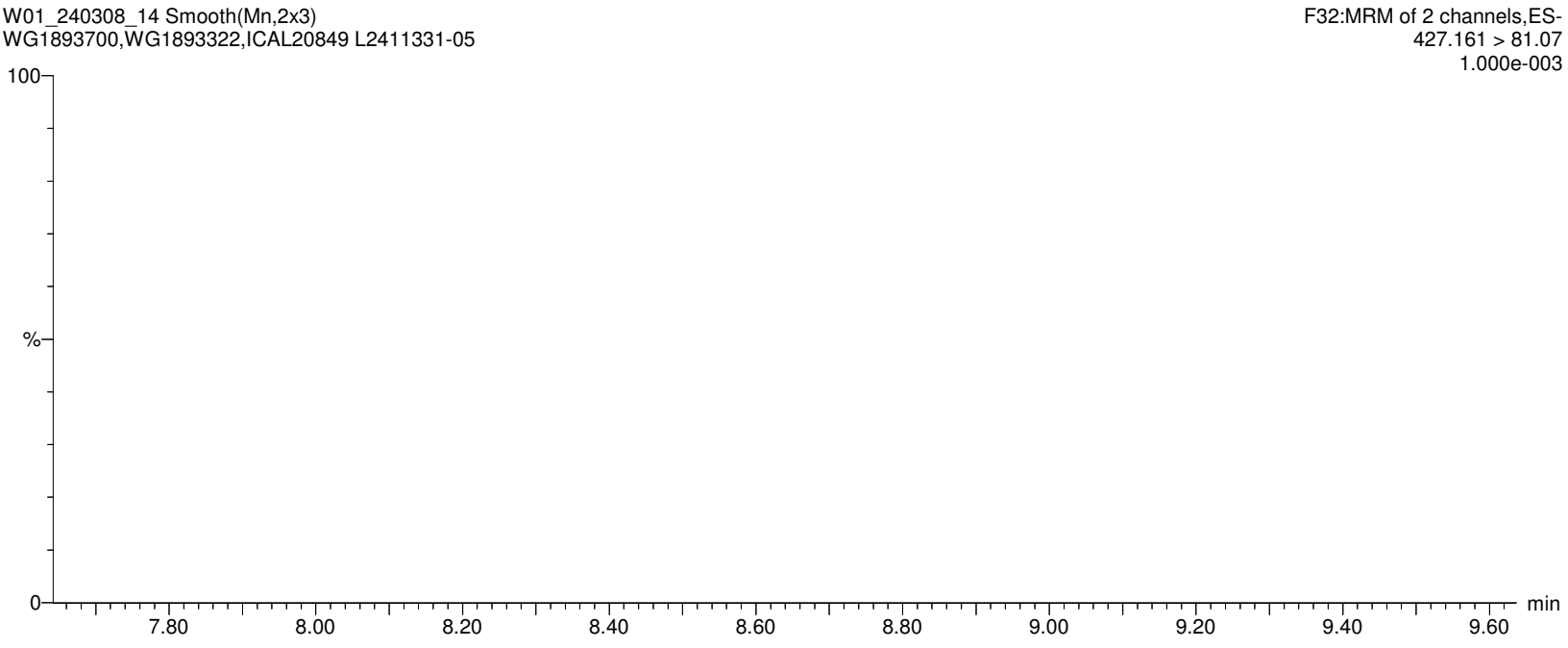

all concentration units in (ng/mL)

Alpha Analytical Inc.
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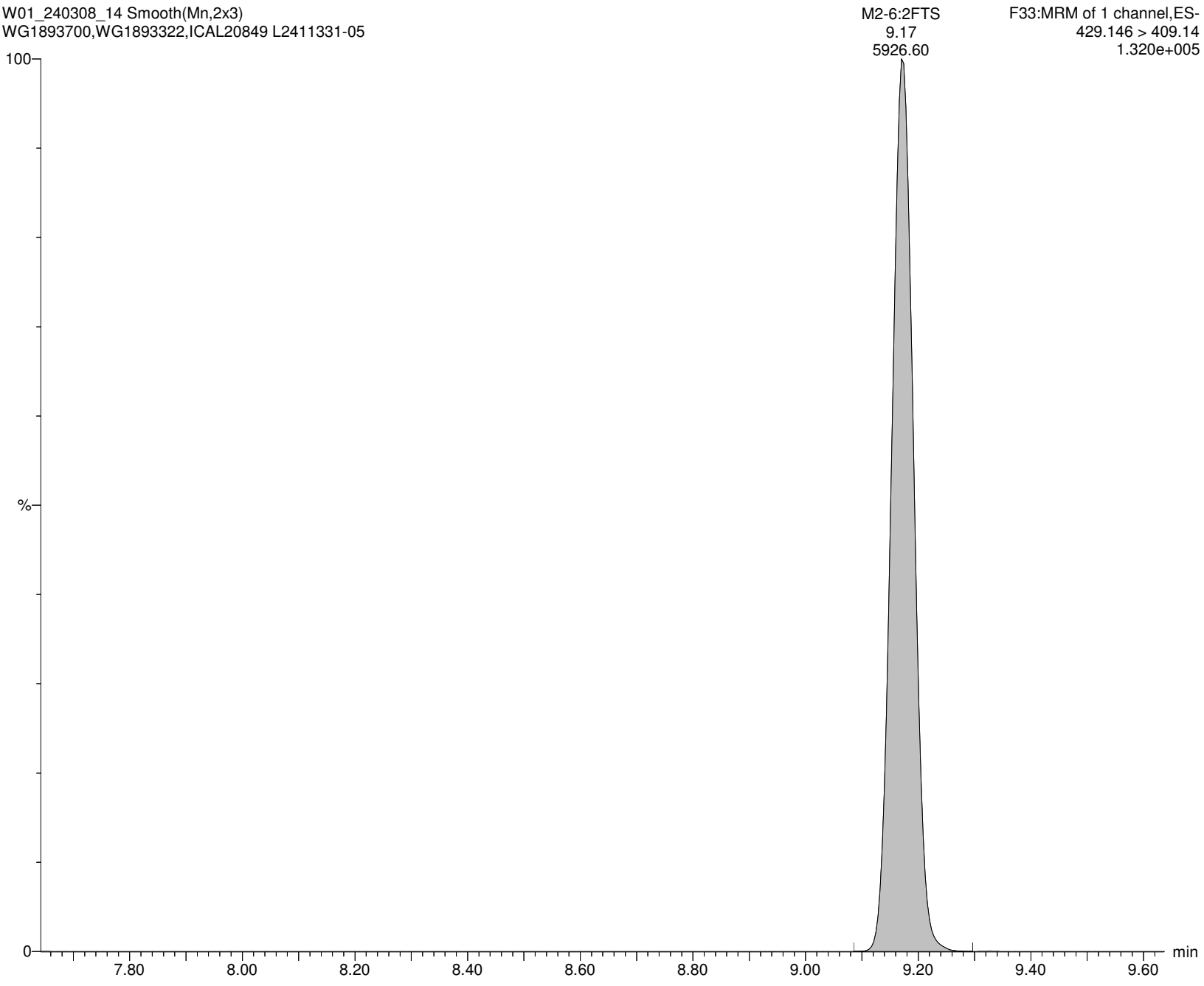

all concentration units in (ng/mL)

Alpha Analytical Inc.
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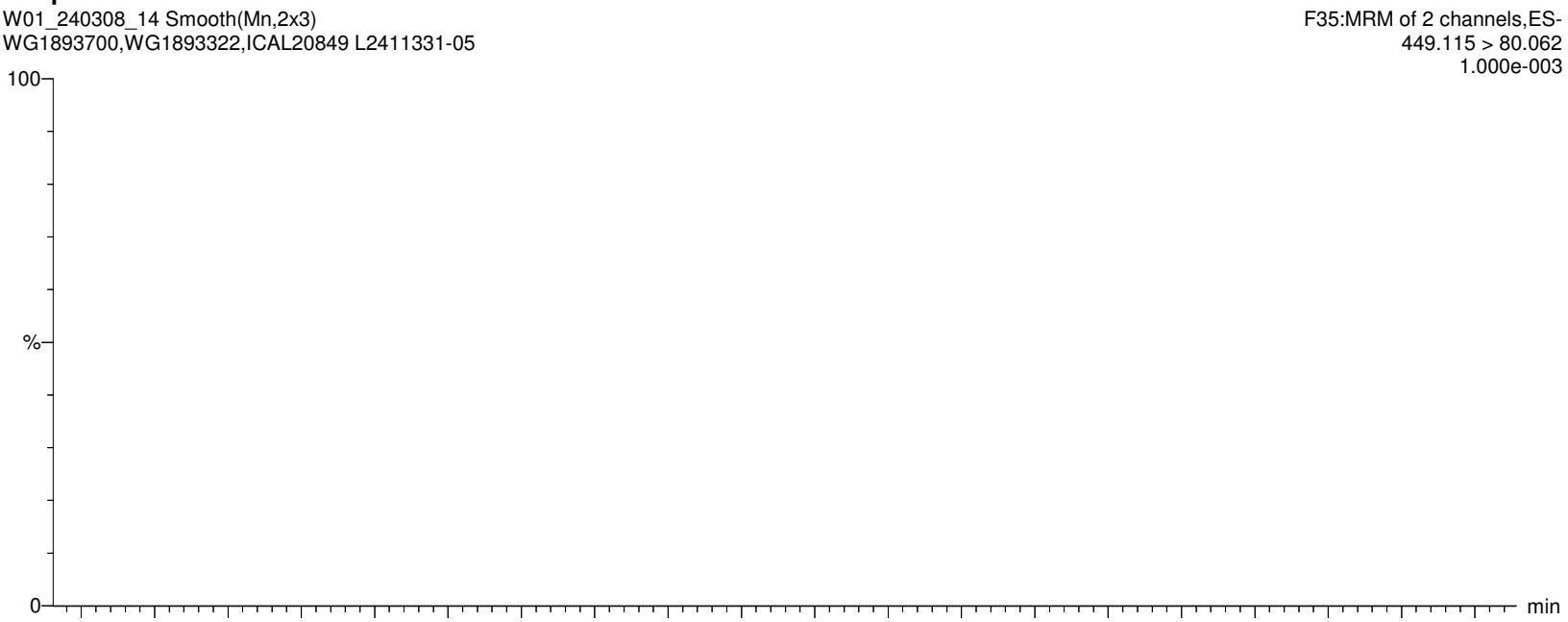

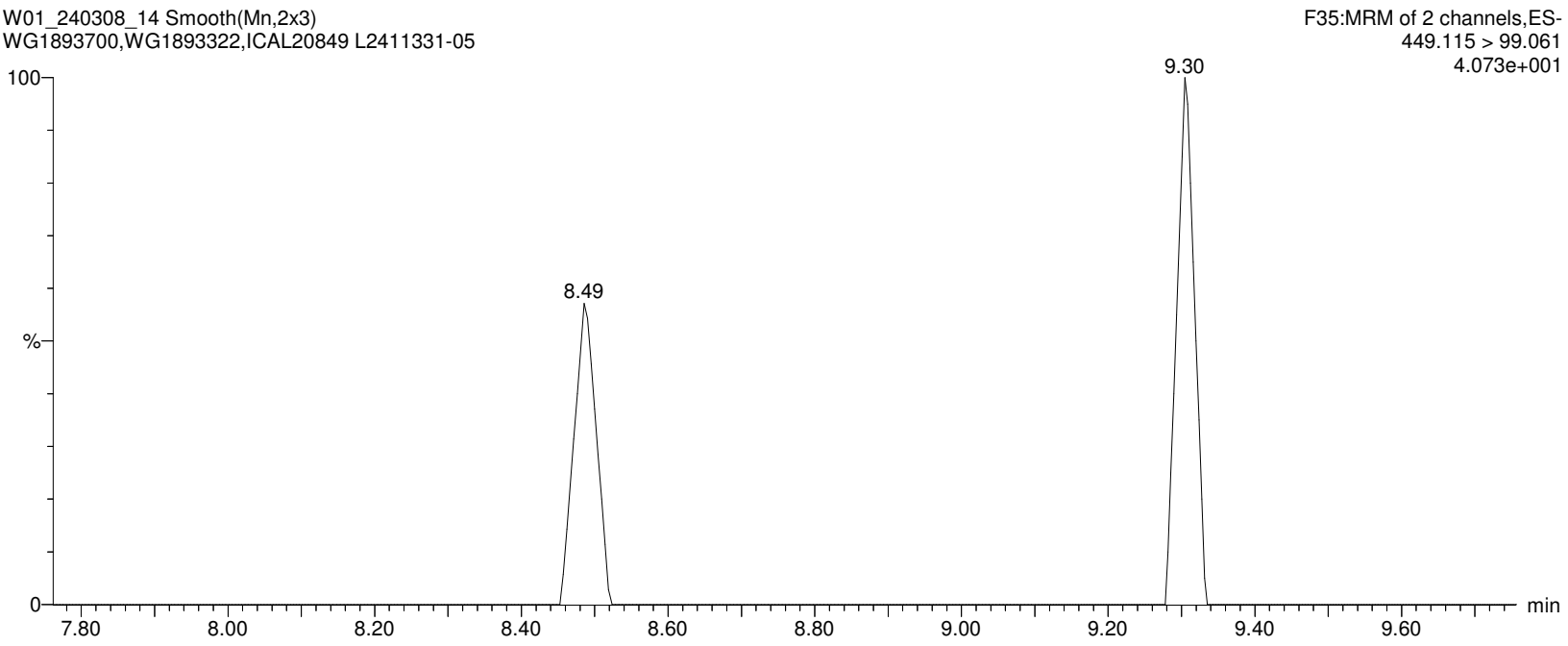

all concentration units in (ng/mL)

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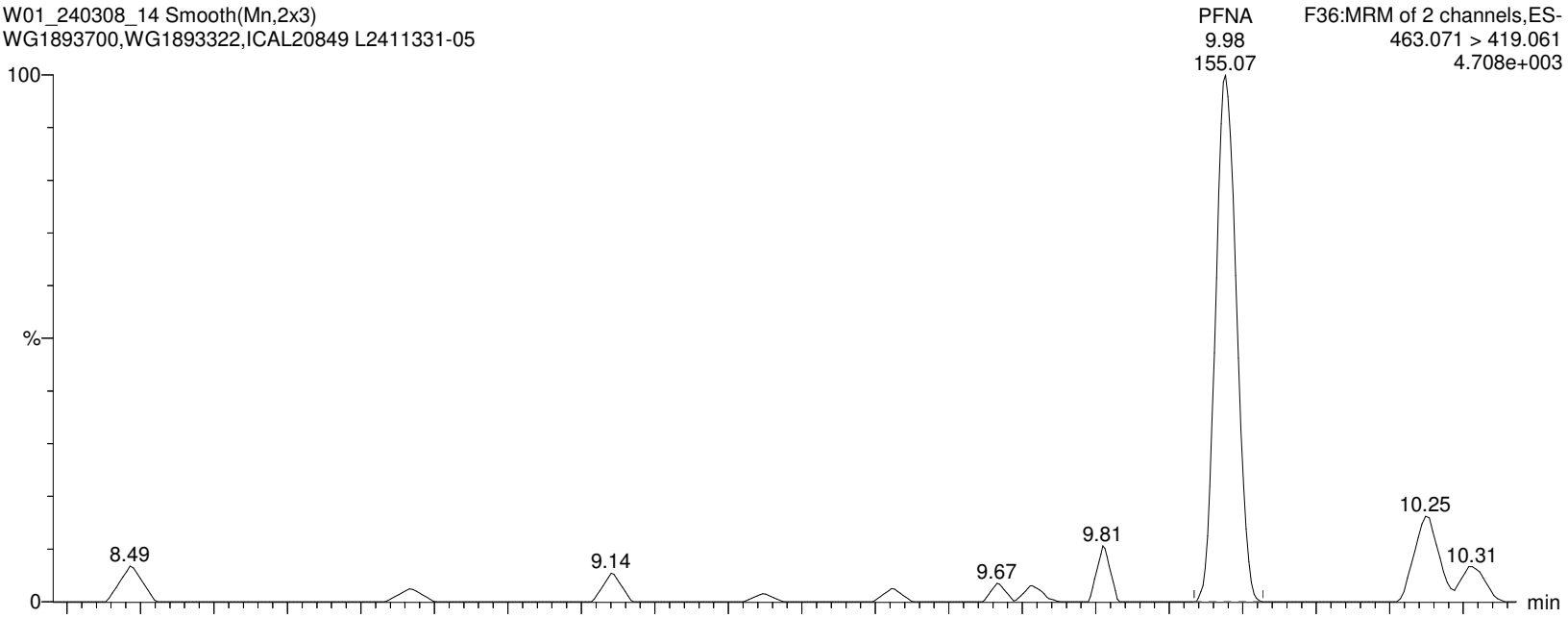

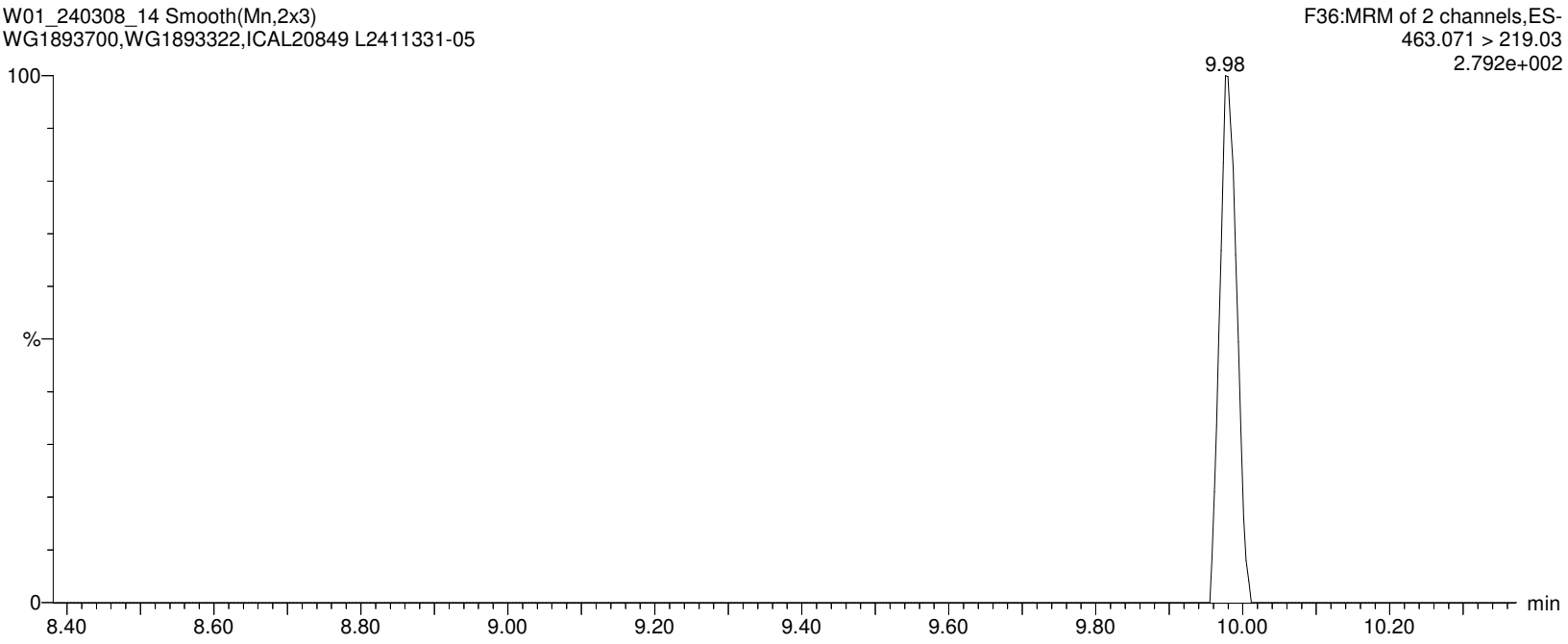

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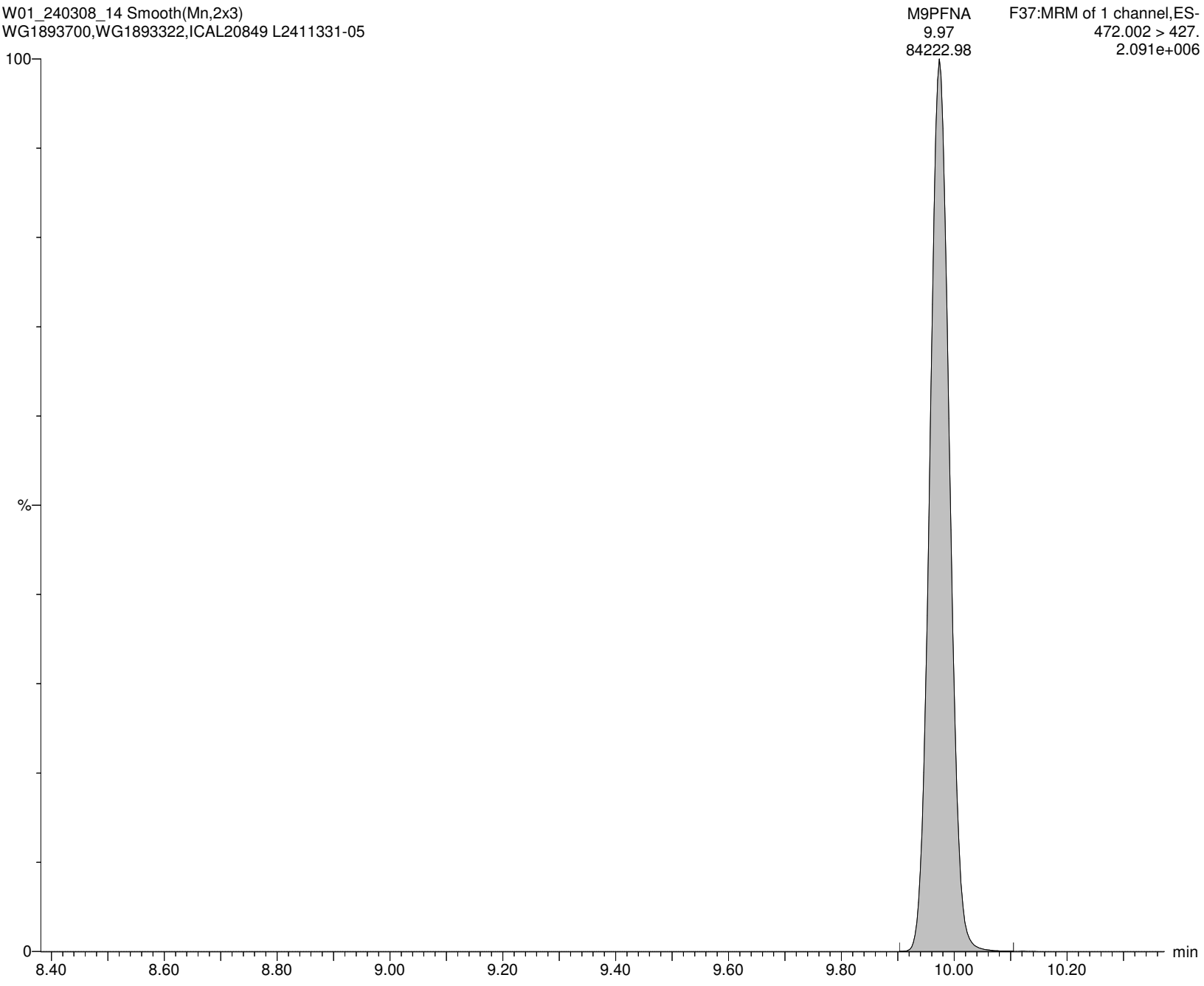

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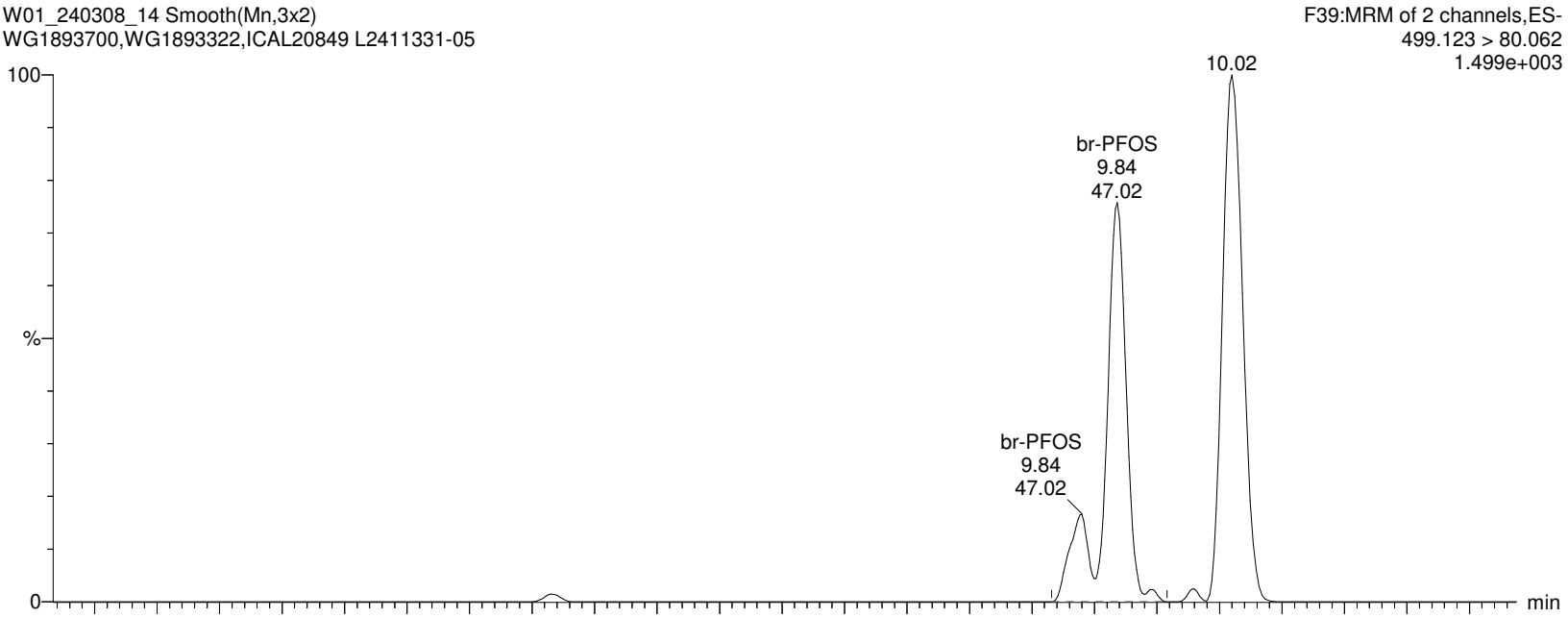

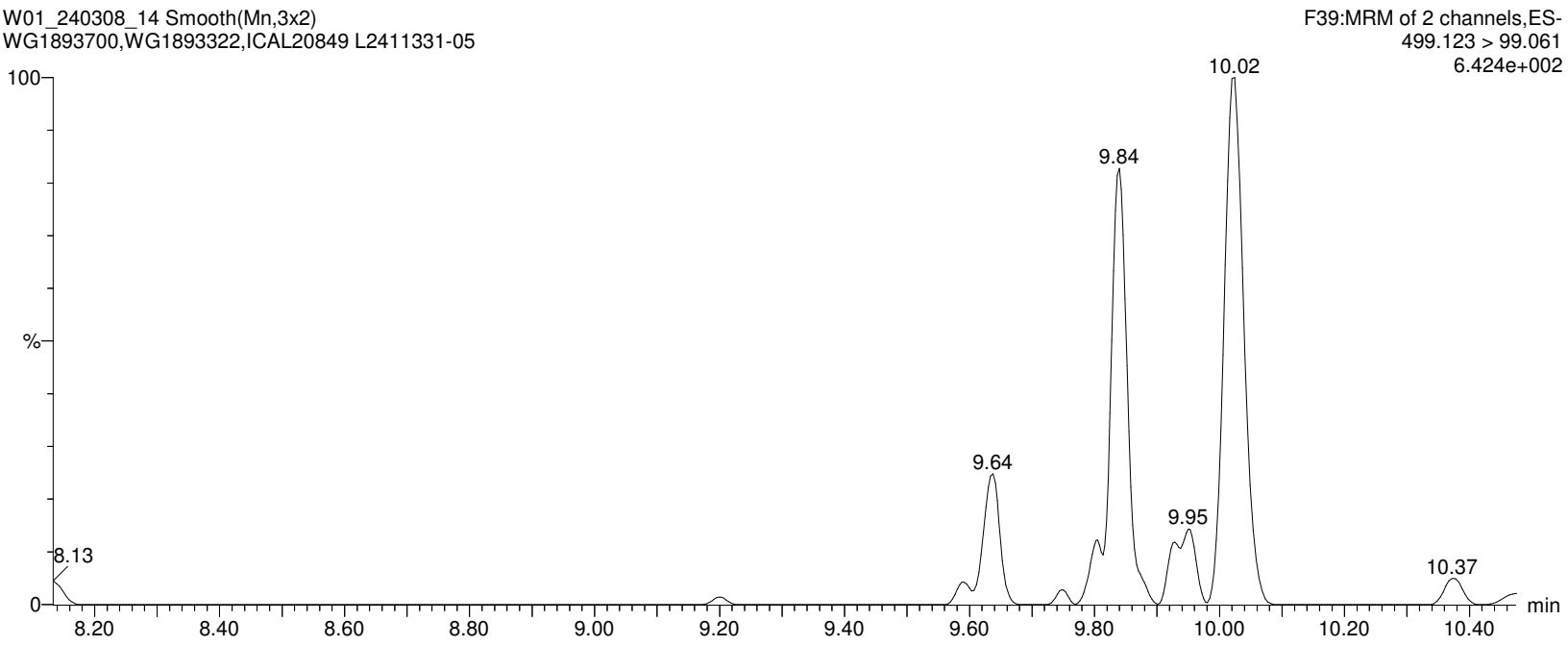

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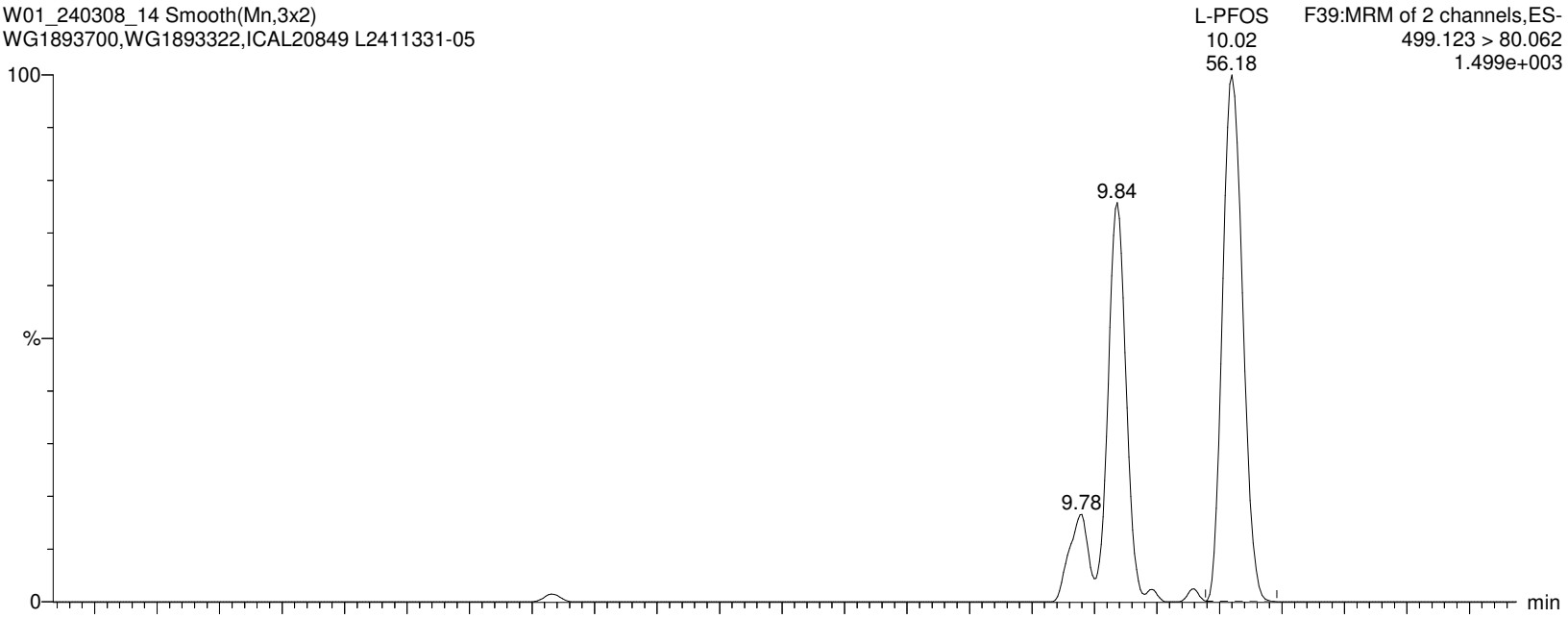

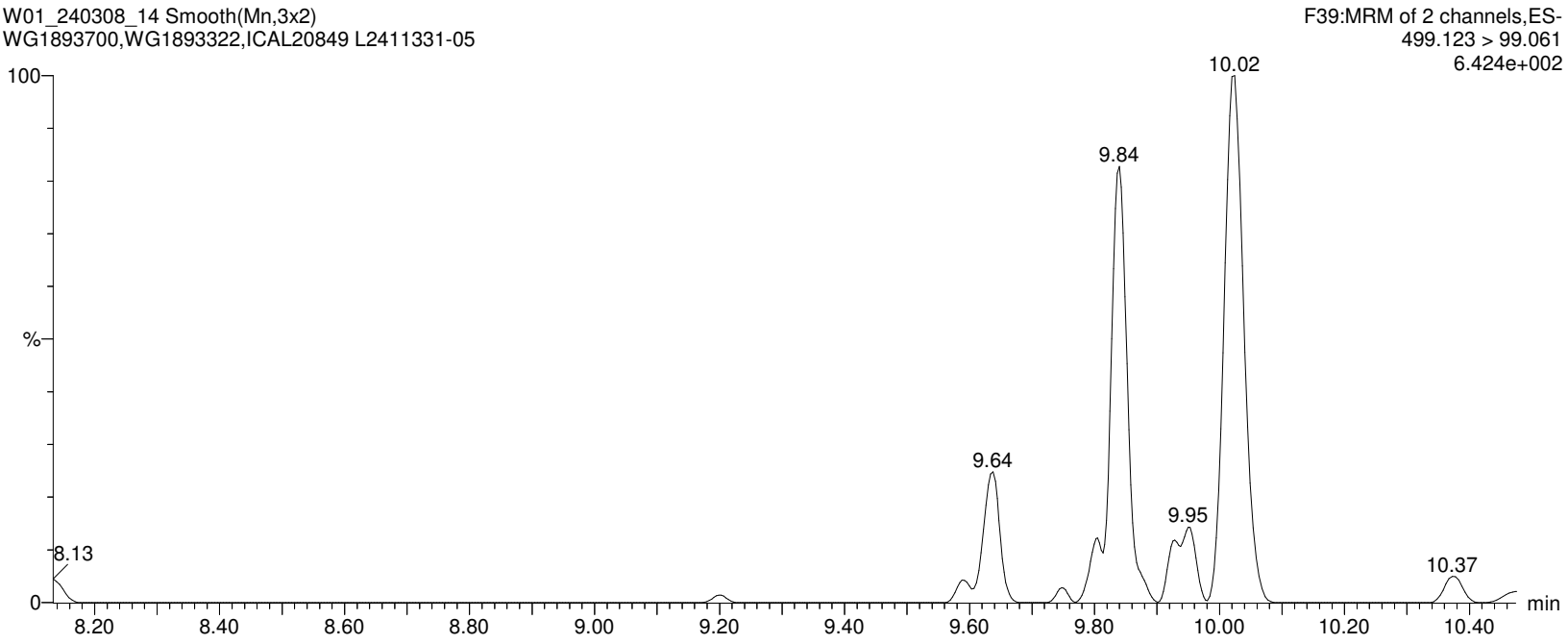

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Printed: Friday, March 08, 2024 15:07:46 Eastern Standard Time

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Date: 08-Mar-2024
Time: 08:38:56
Description: WG1893700,WG1893322,ICAL20849
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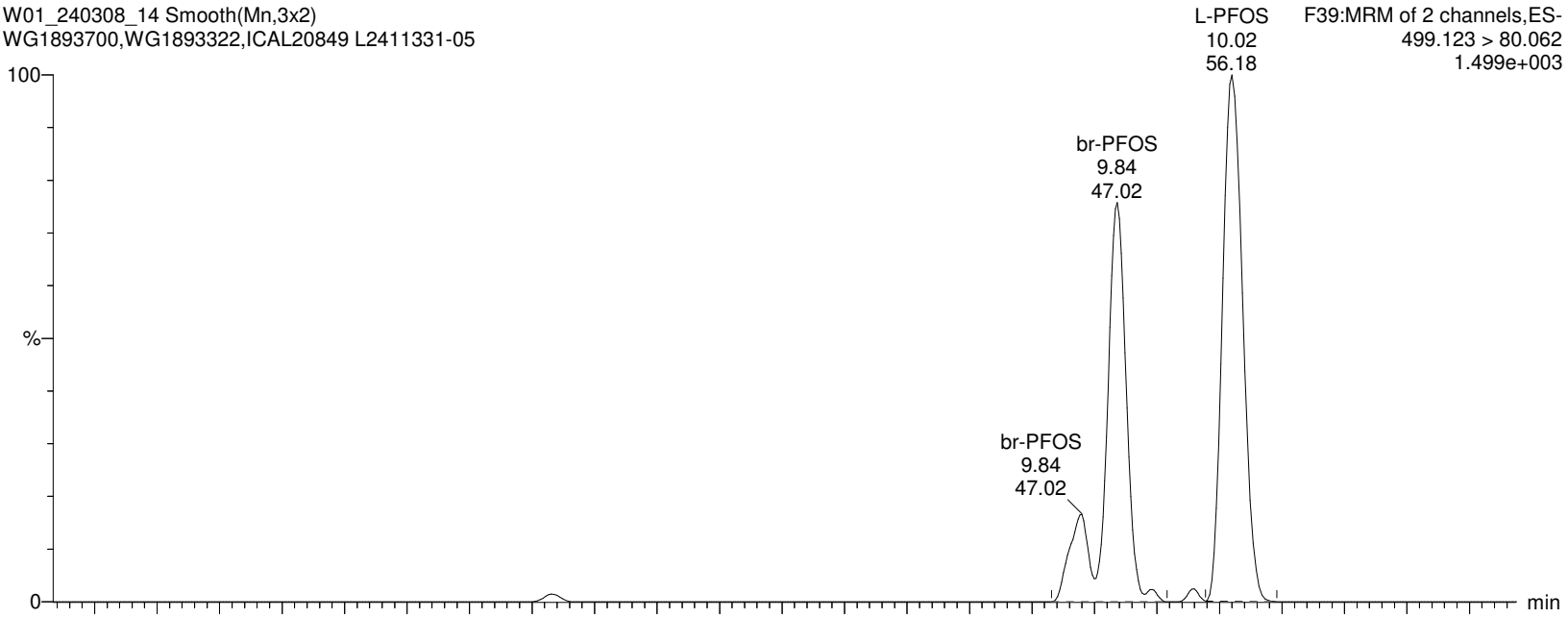

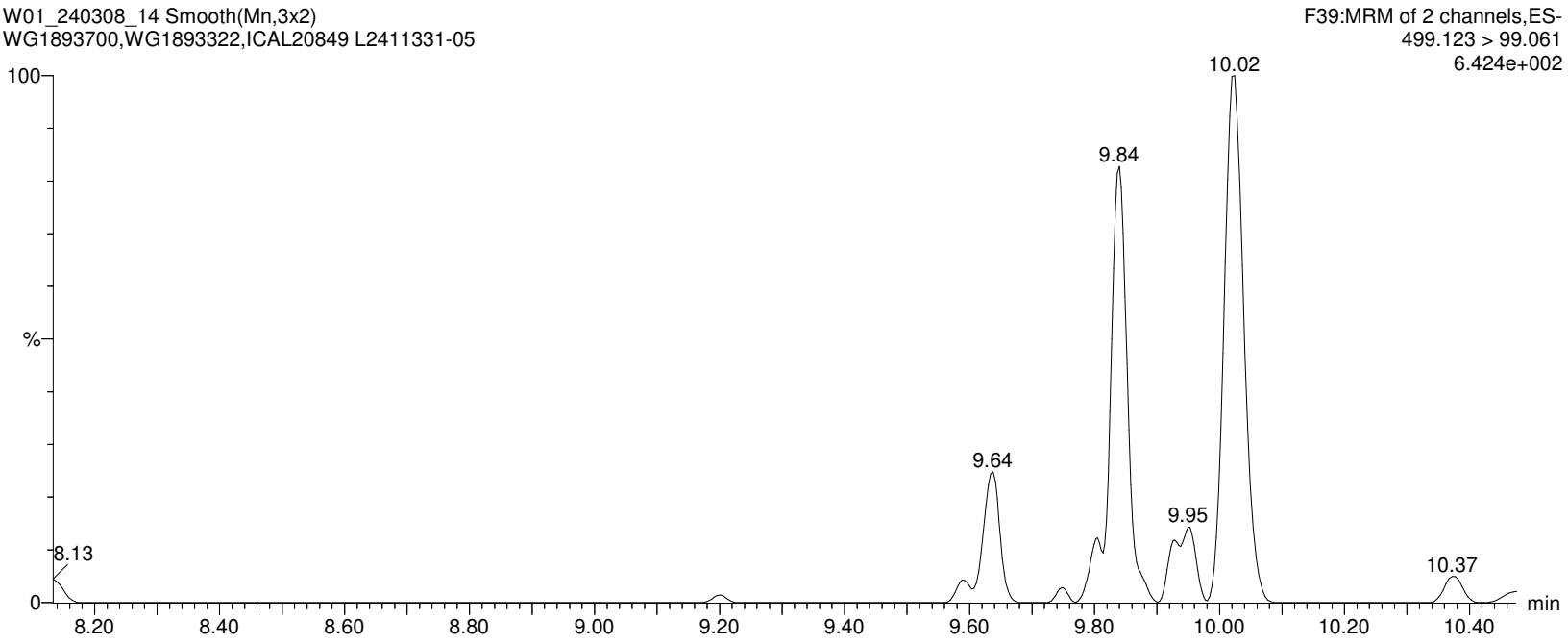

all concentration units in (ng/mL)

Alpha Analytical Inc.
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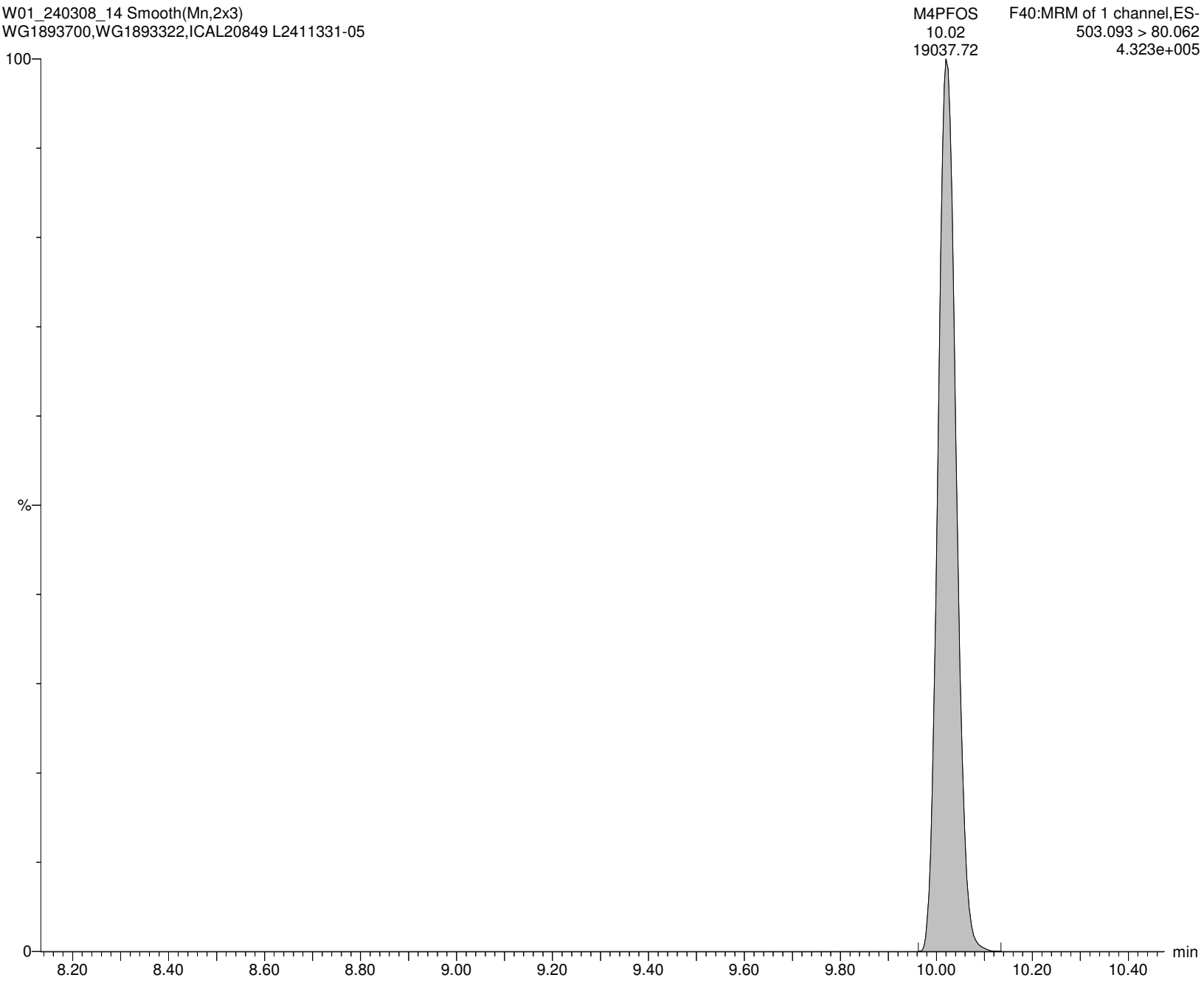

all concentration units in (ng/mL)

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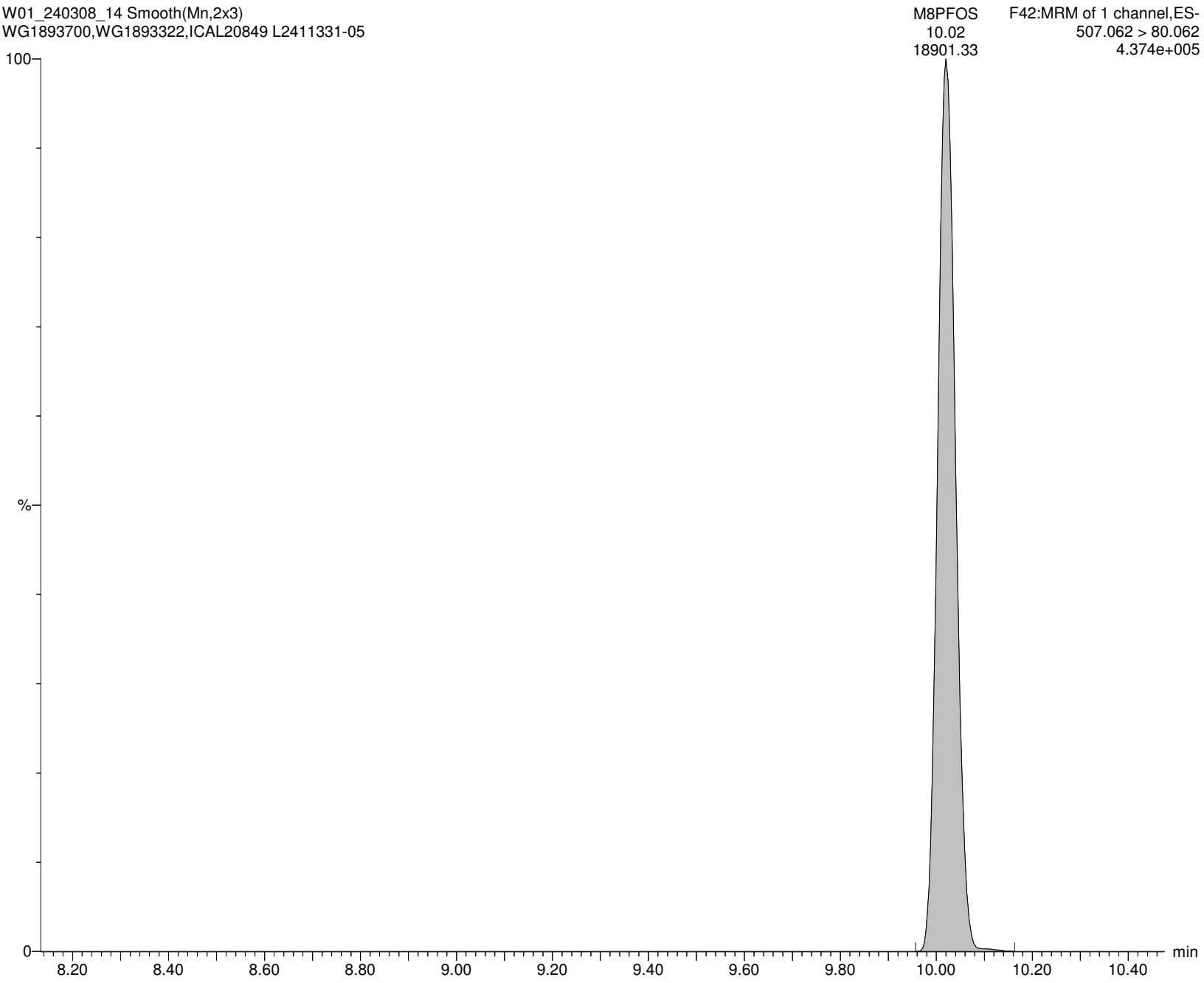

all concentration units in (ng/mL)

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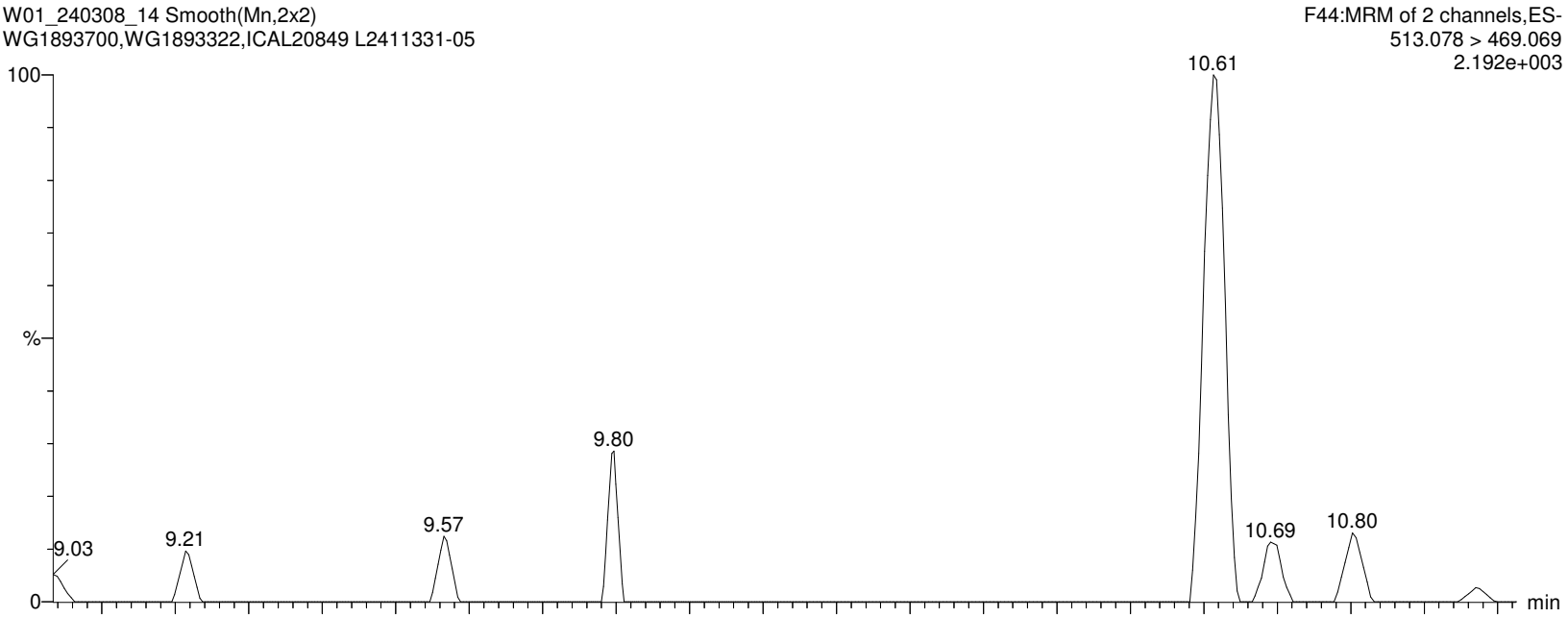

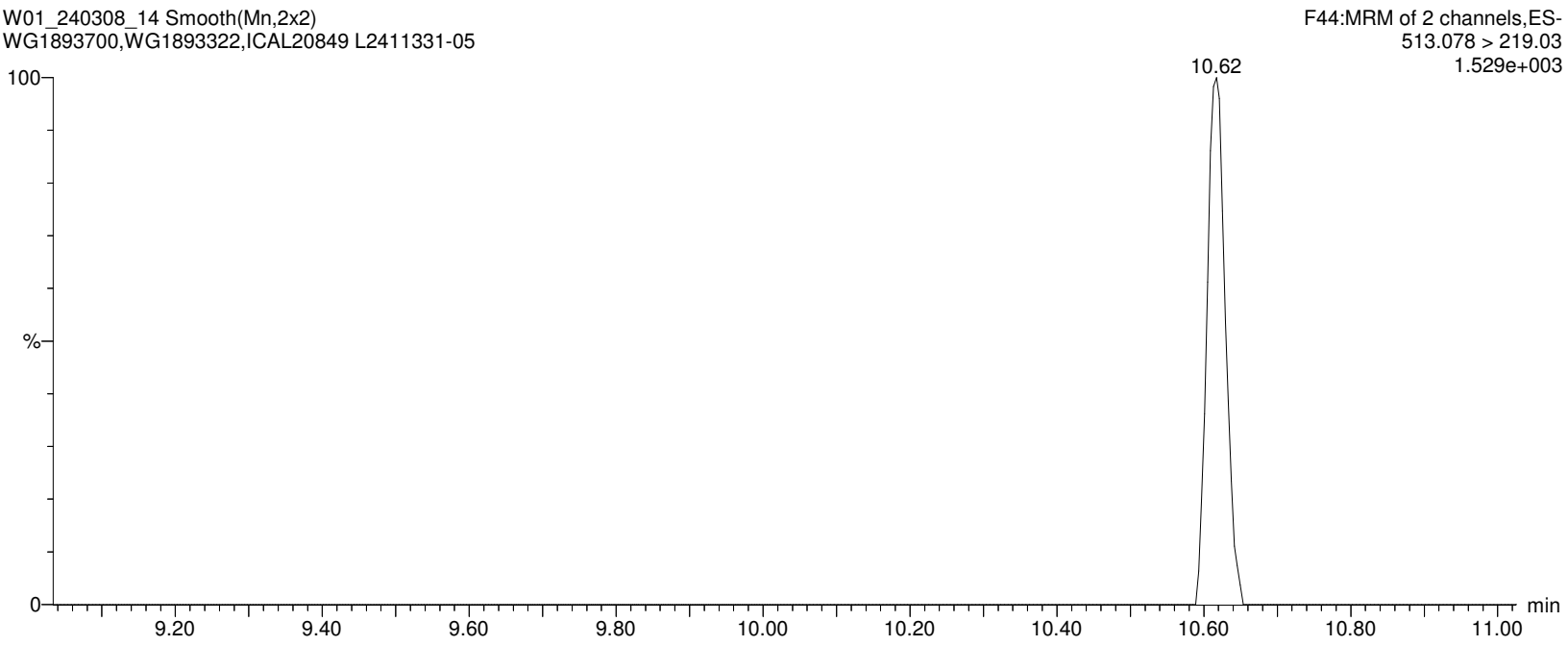

all concentration units in (ng/mL)

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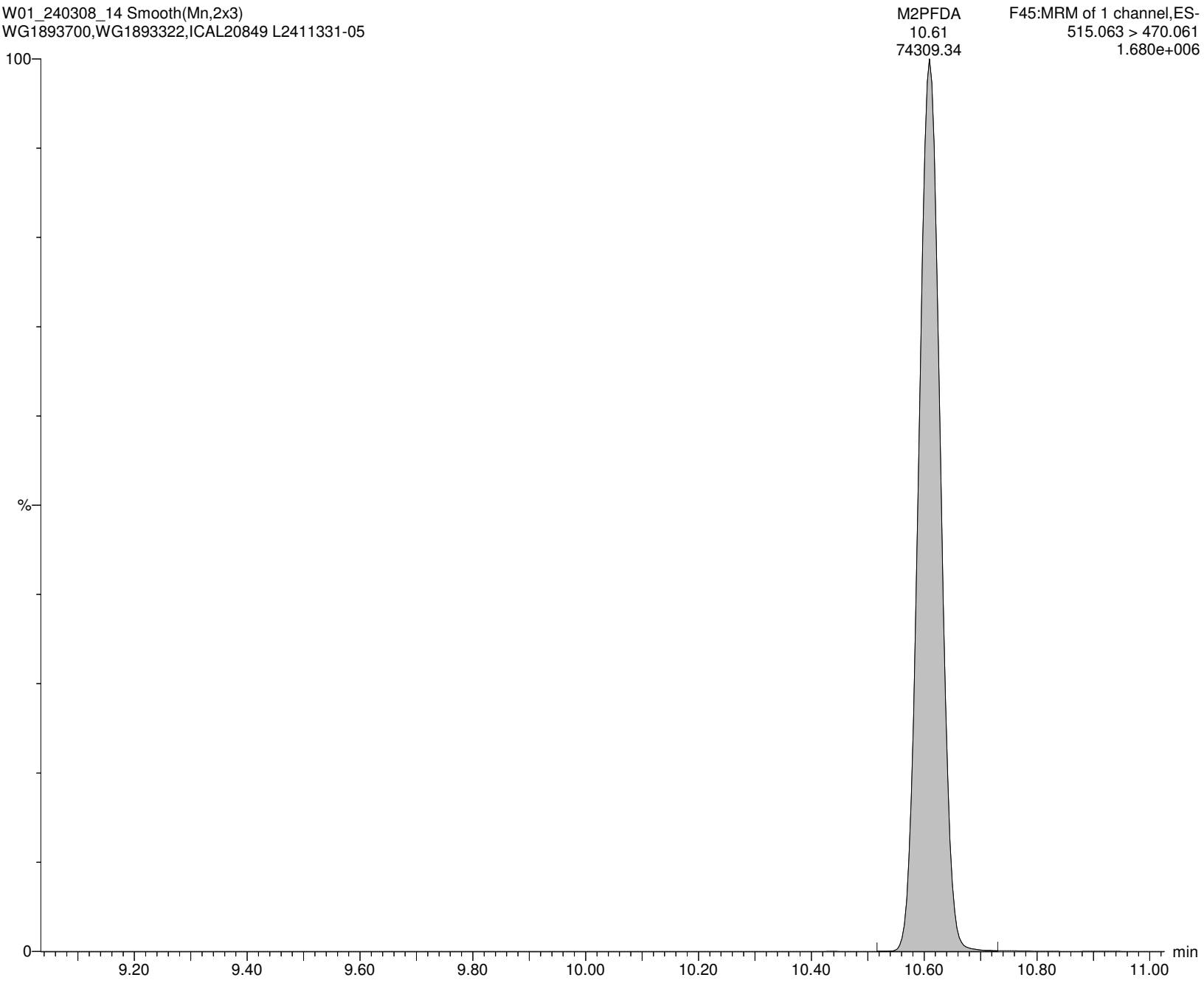

all concentration units in (ng/mL)

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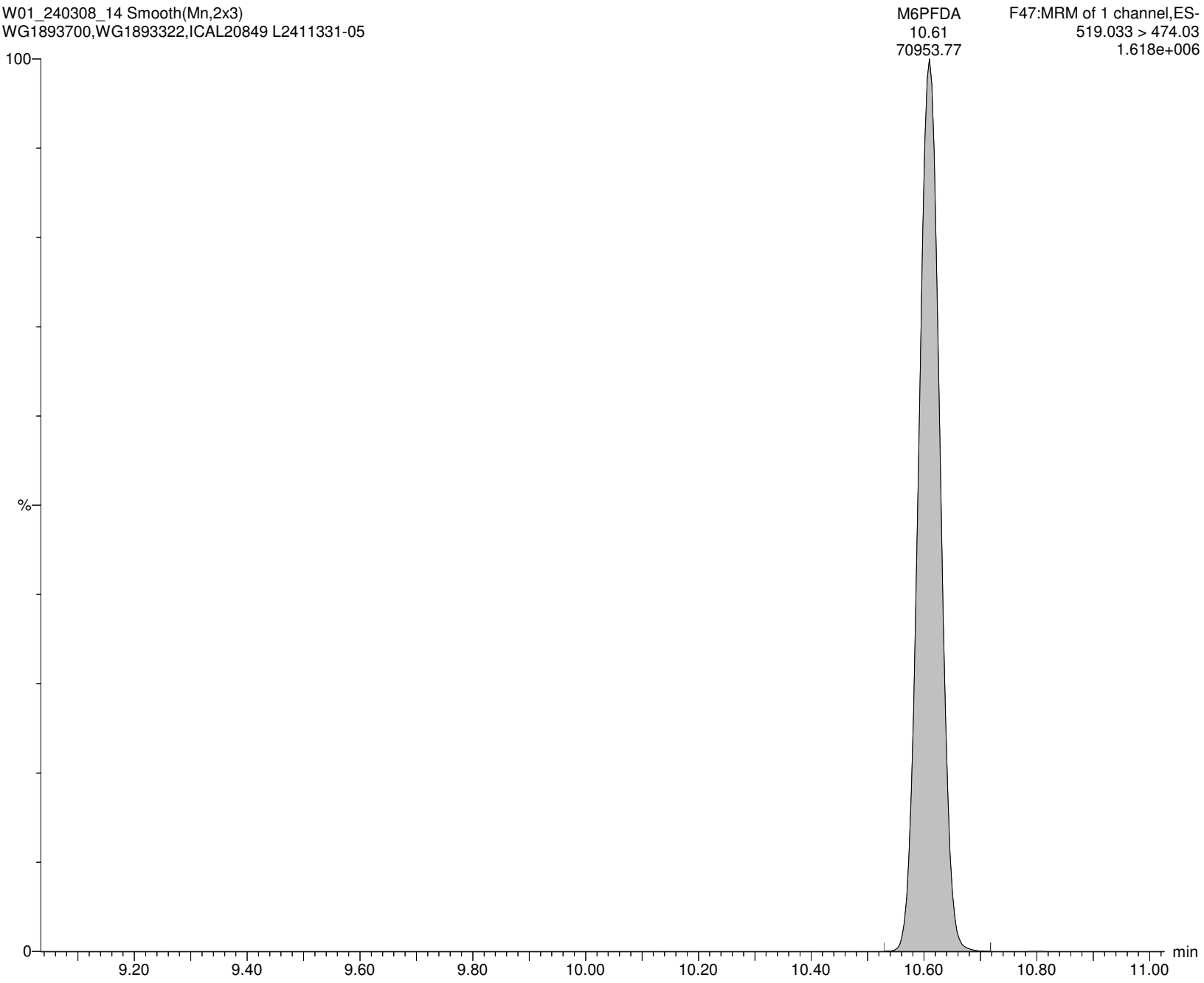

all concentration units in (ng/mL)

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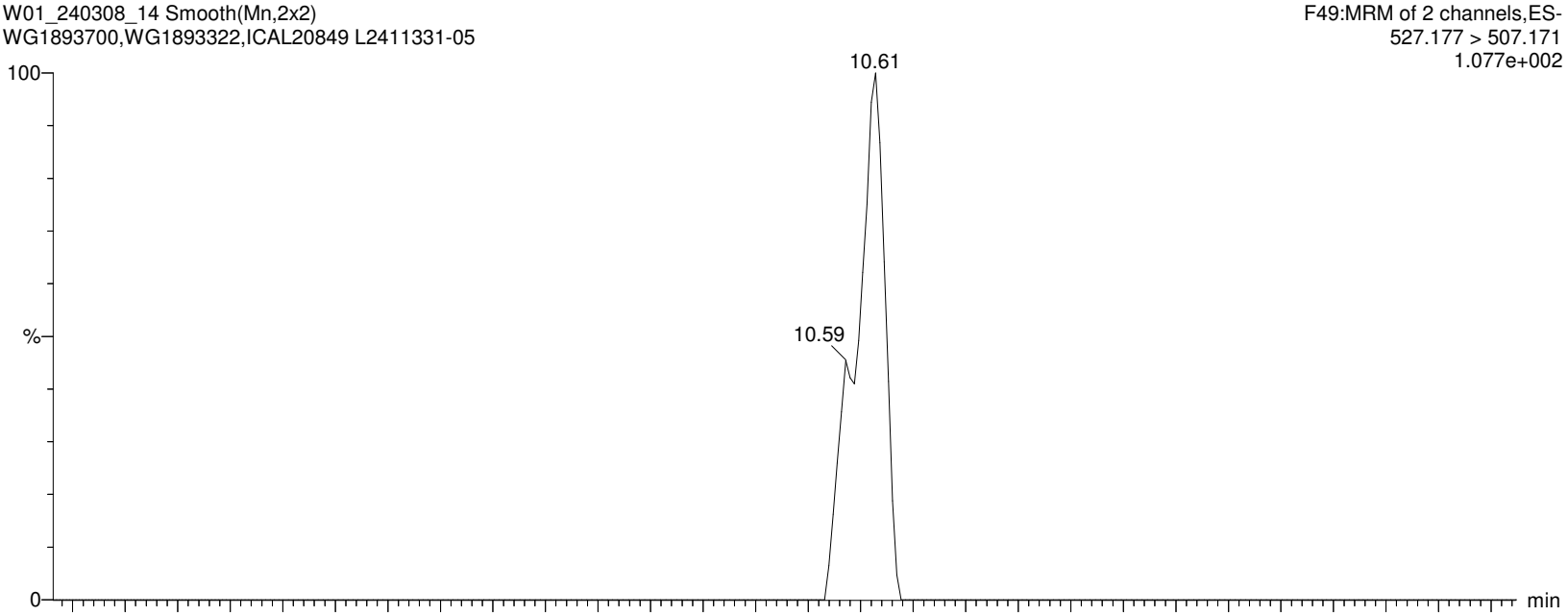

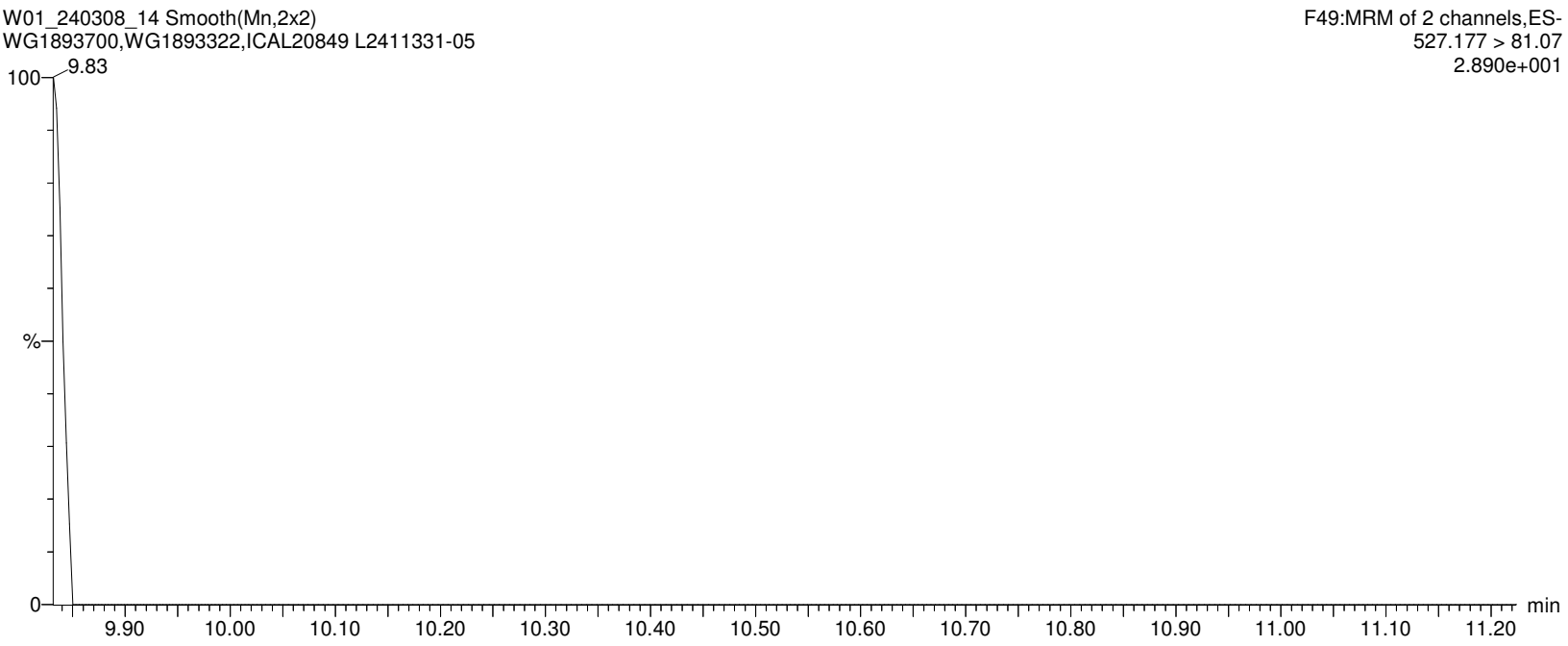

all concentration units in (ng/mL)

Alpha Analytical Inc.
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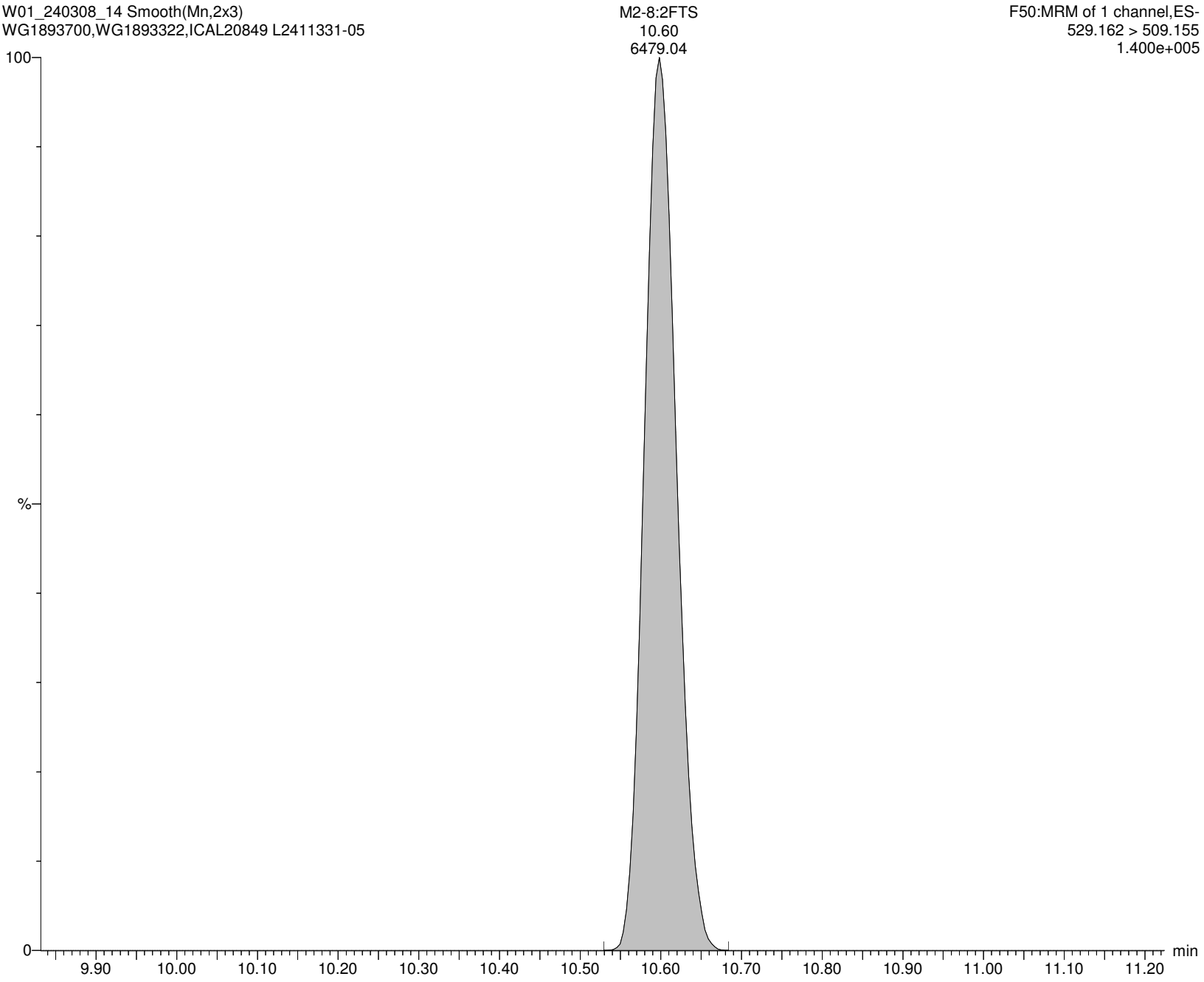

all concentration units in (ng/mL)

Alpha Analytical Inc.
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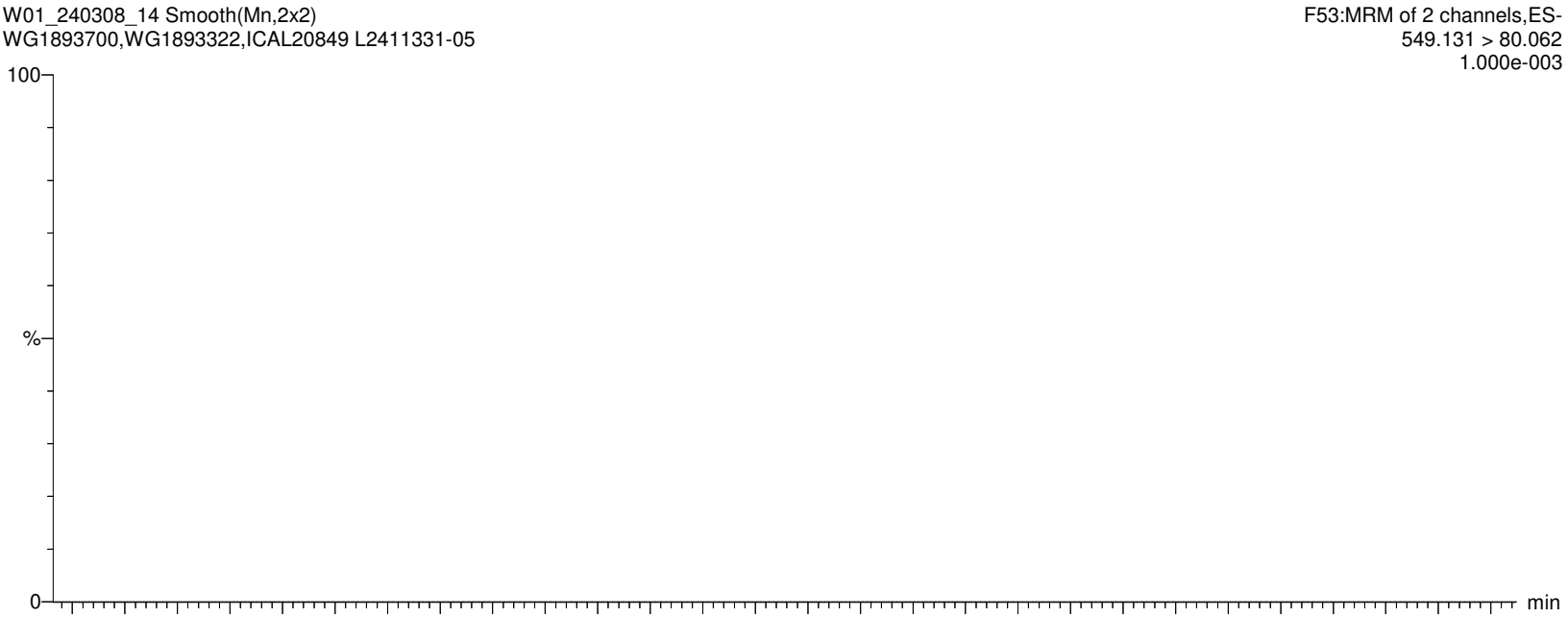

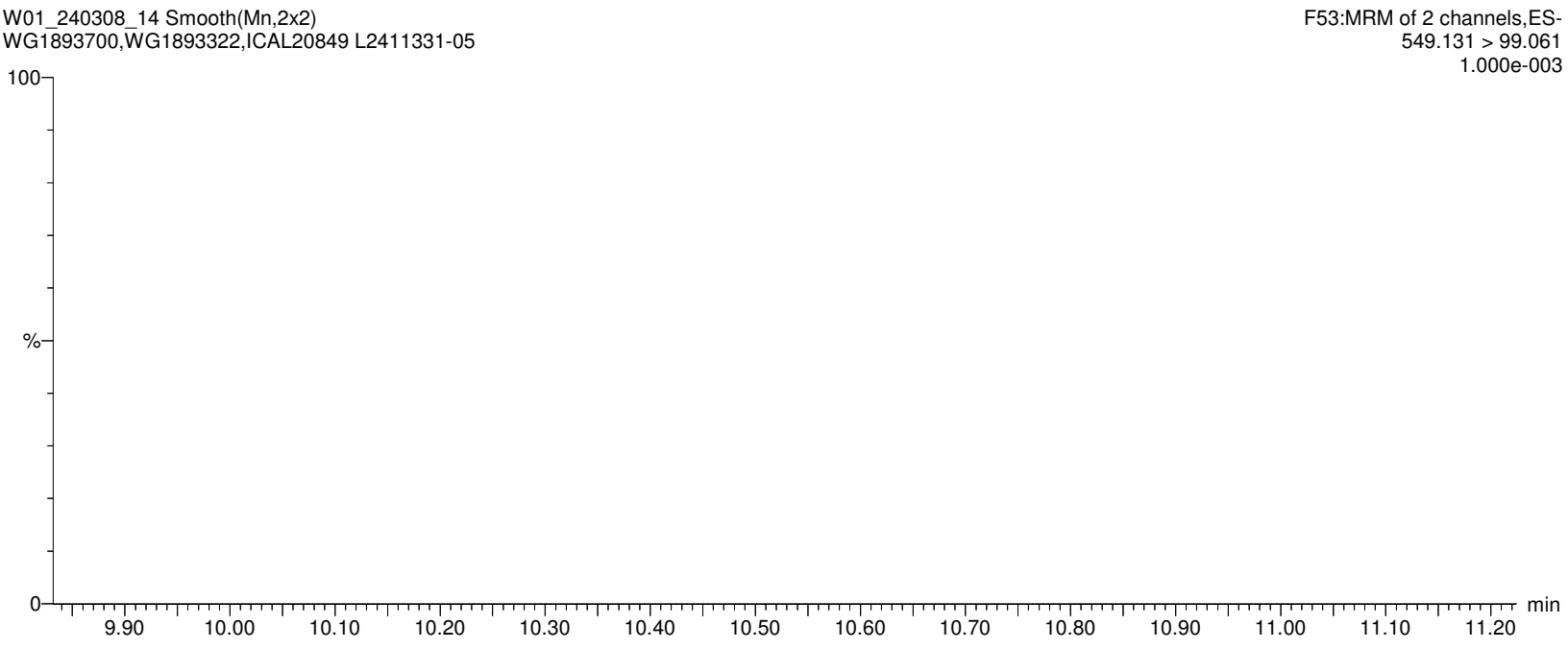

all concentration units in (ng/mL)

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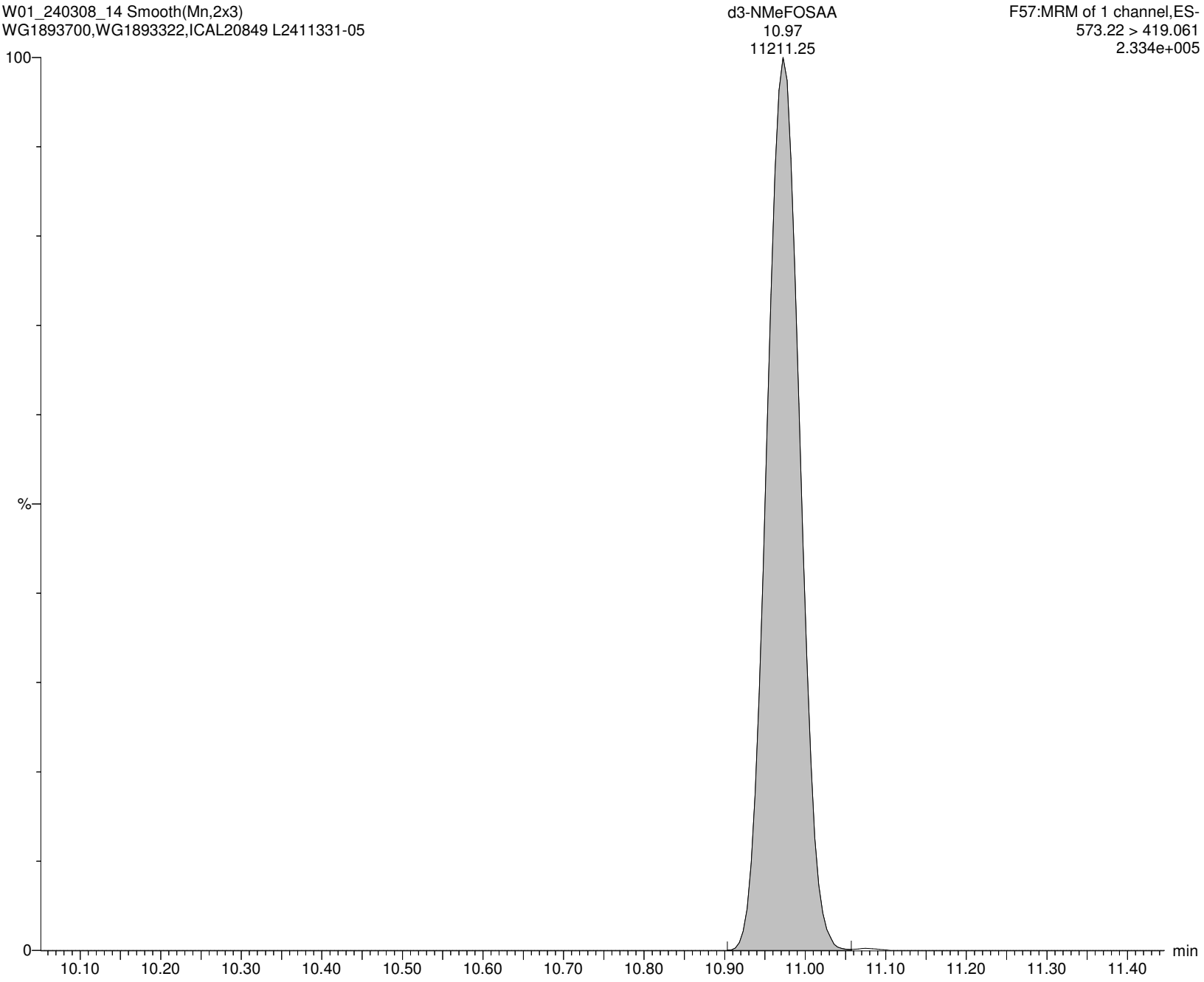

all concentration units in (ng/mL)

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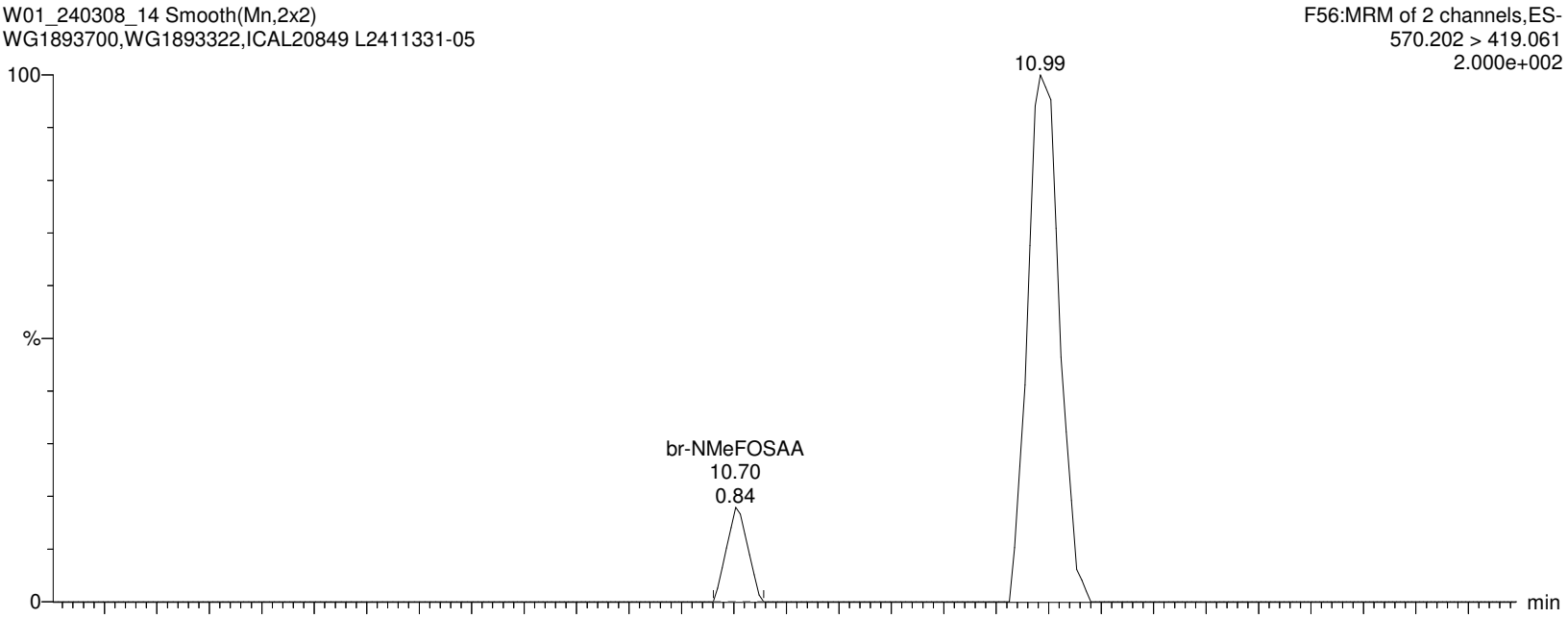

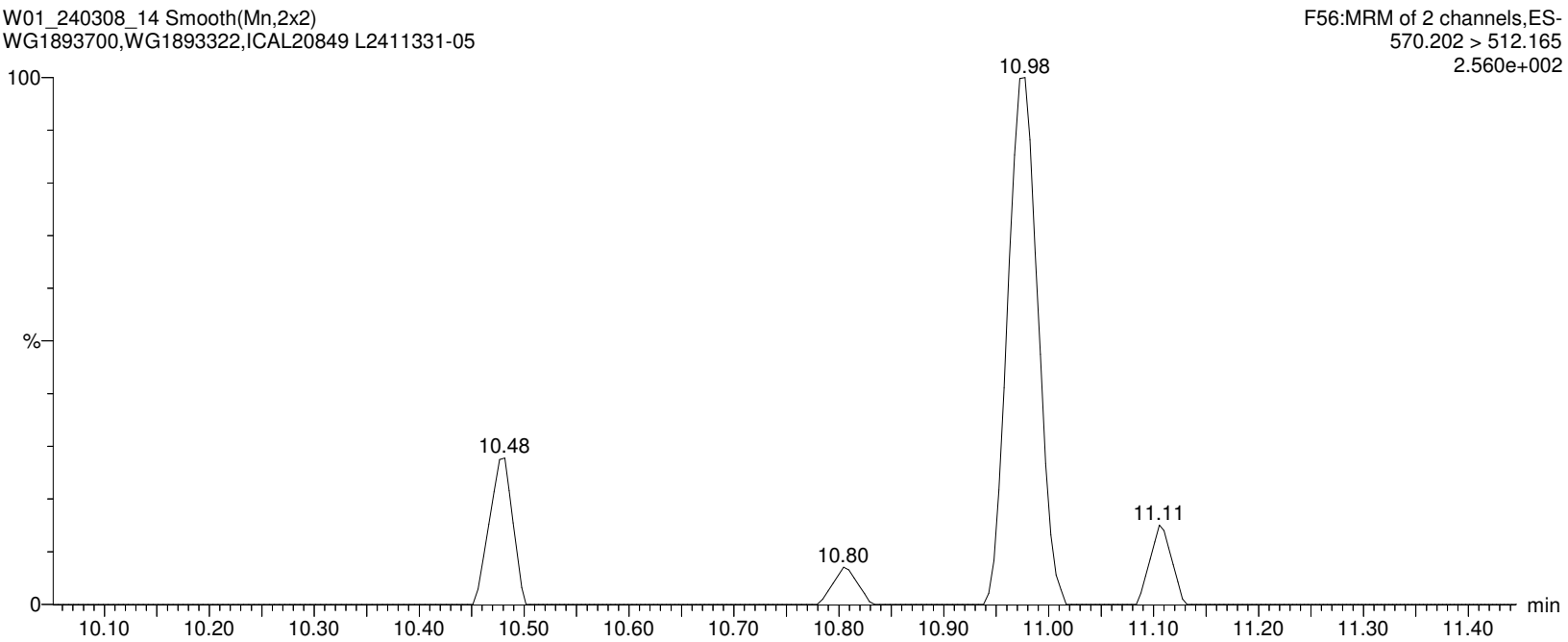

all concentration units in (ng/mL)

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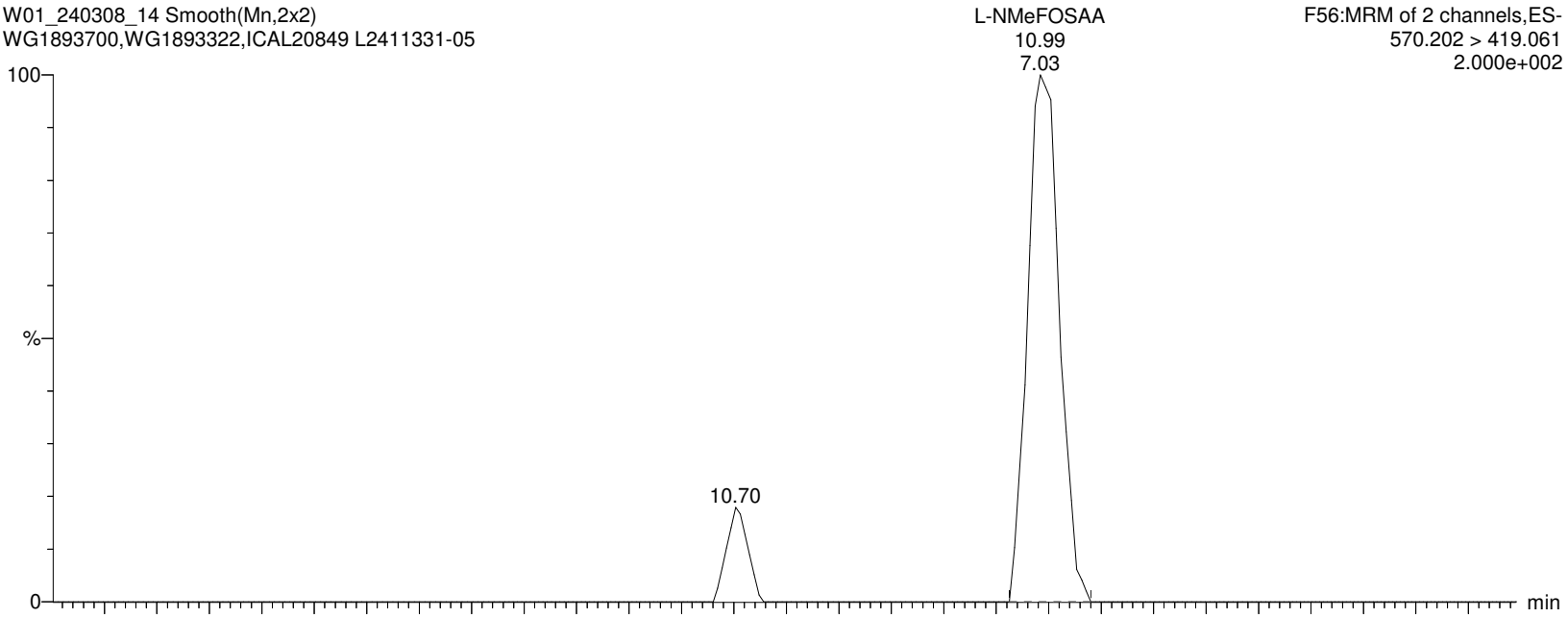

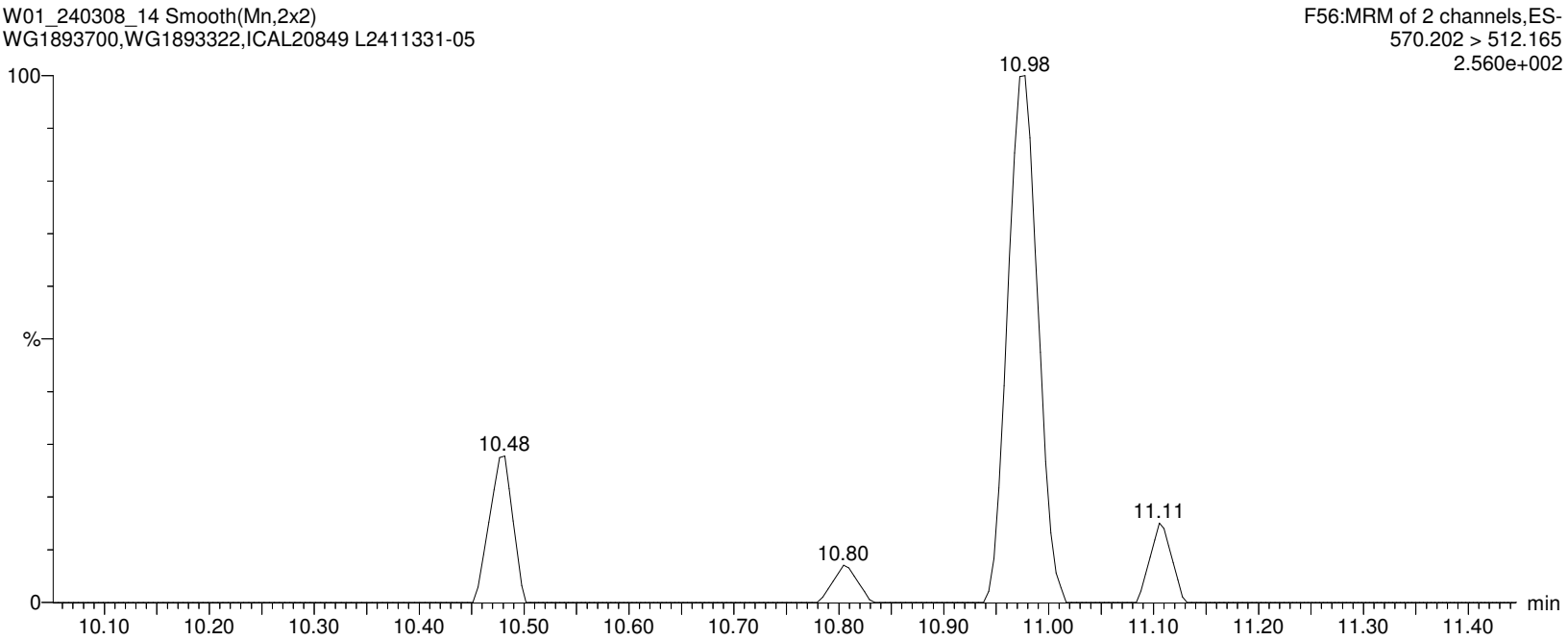

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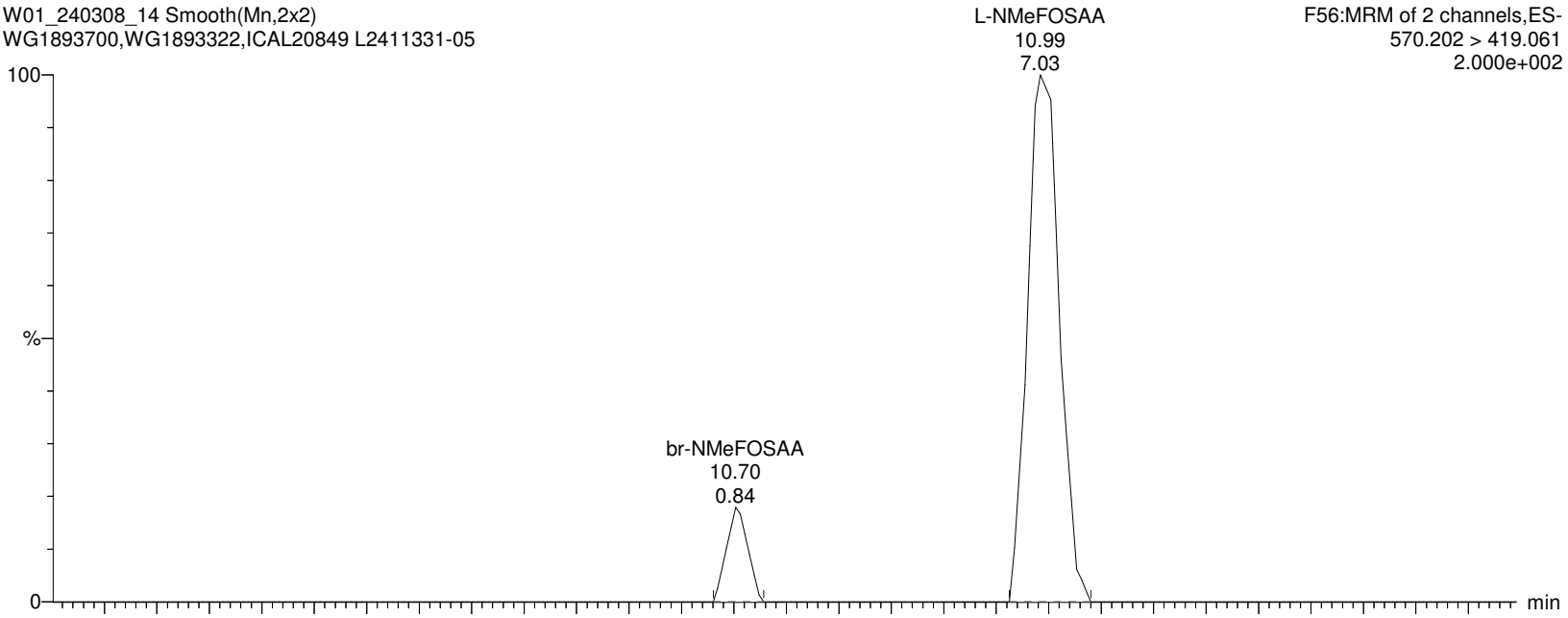

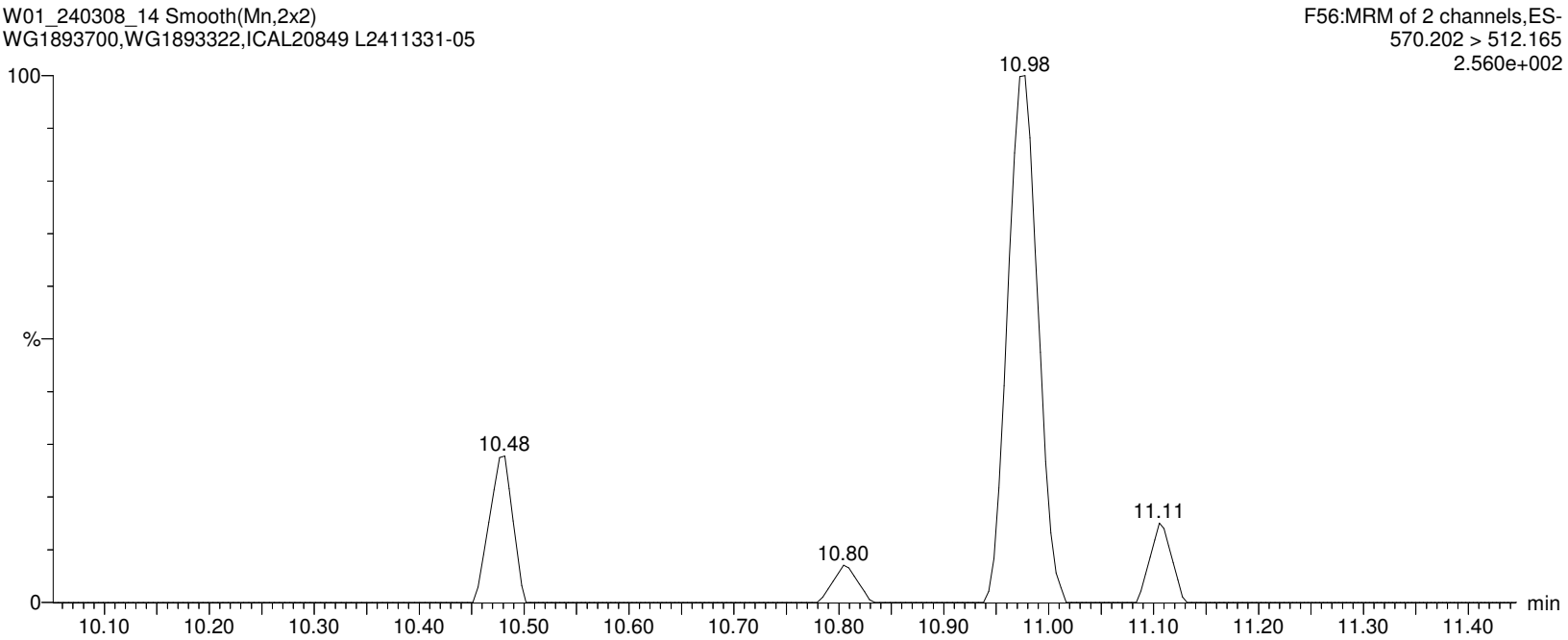

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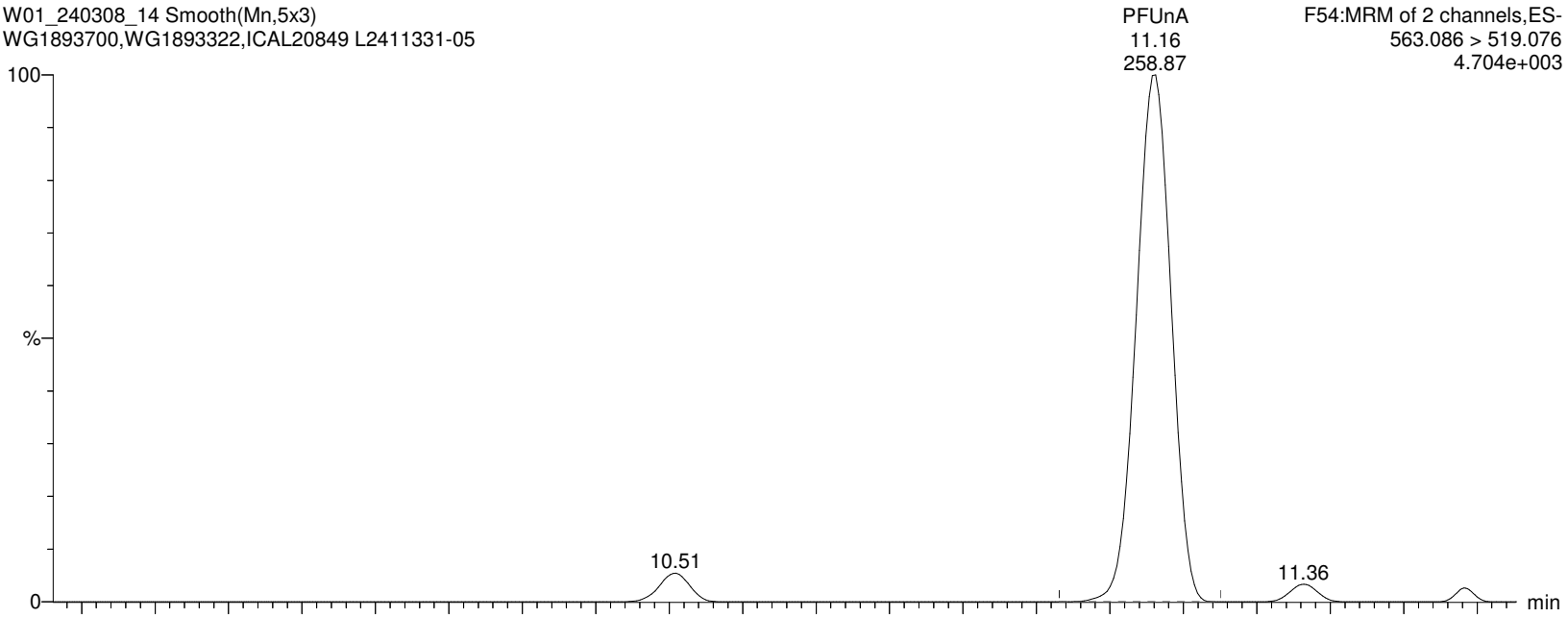

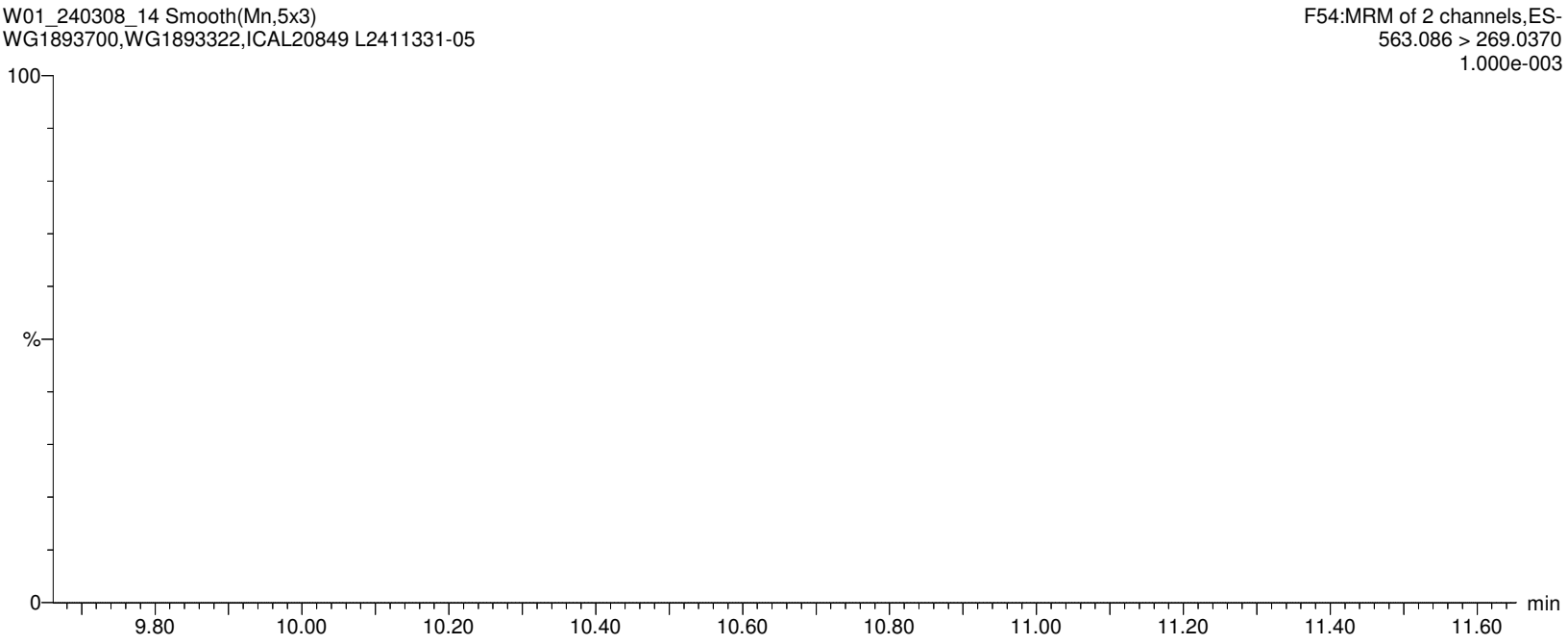

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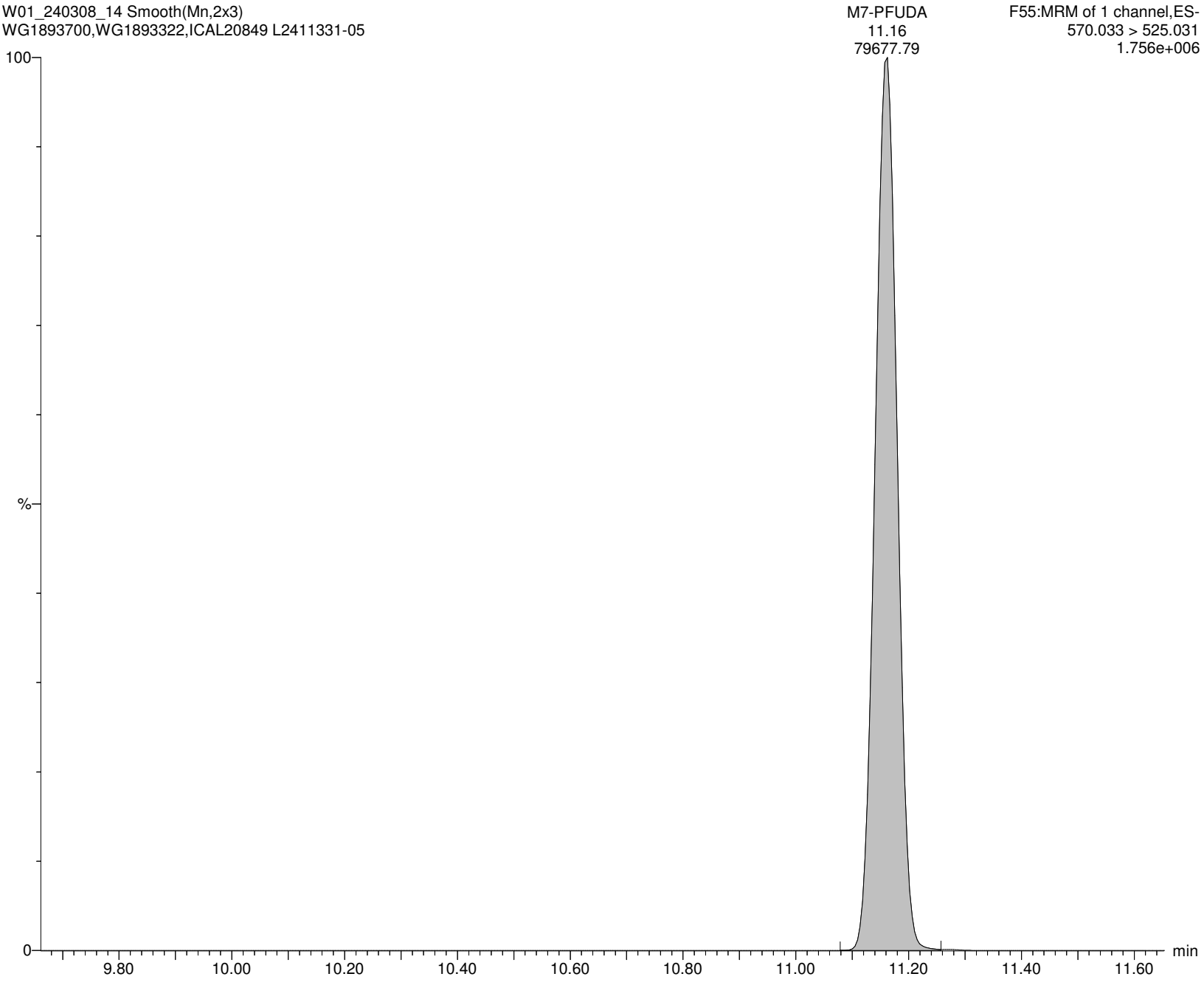
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:46 Eastern Standard Time

Name: W01_240308_14
ID: L2411331-05
Date: 08-Mar-2024
Time: 08:38:56
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
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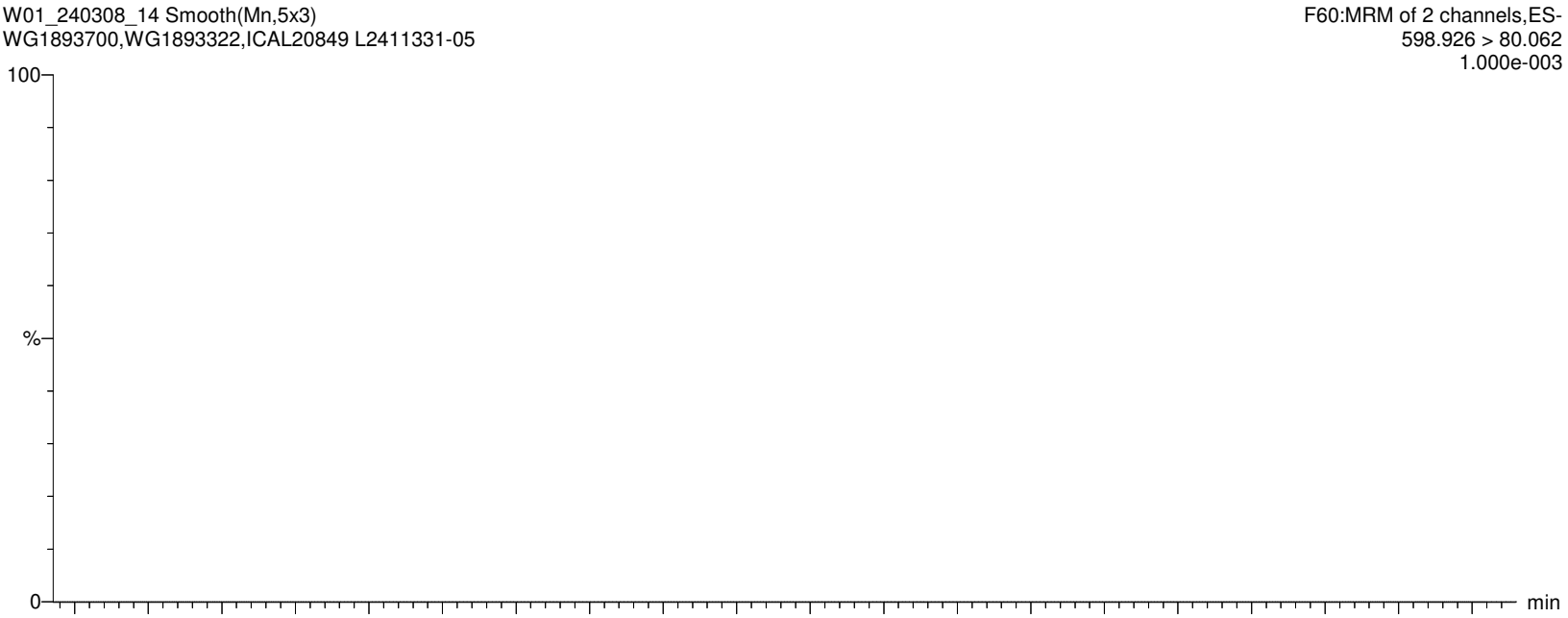

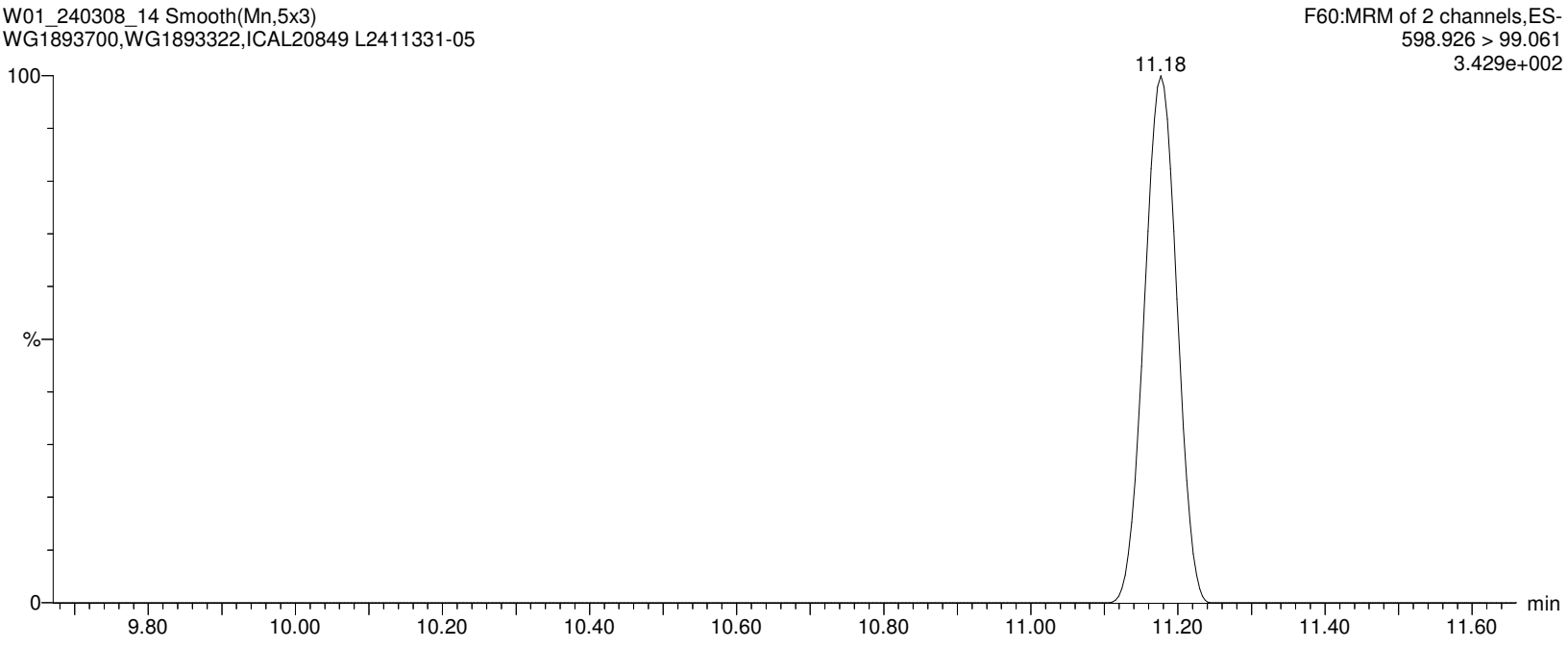

all concentration units in (ng/mL)

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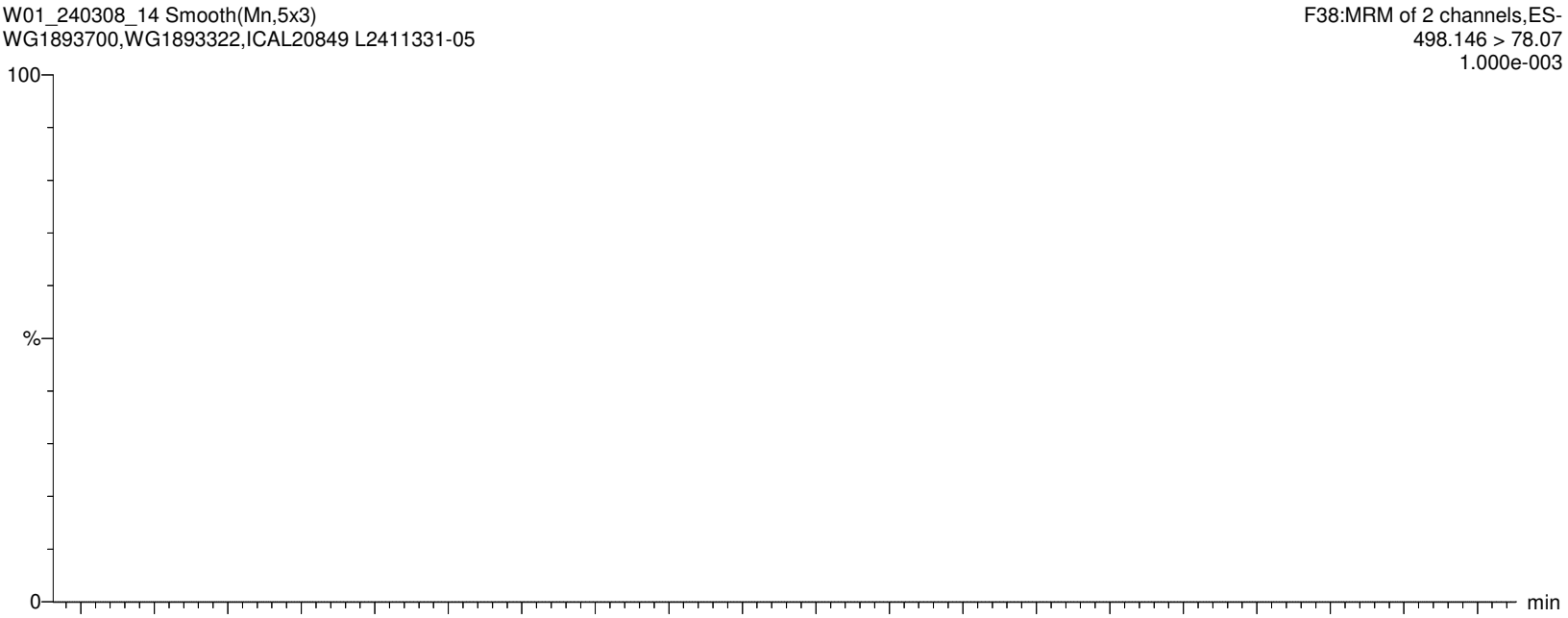

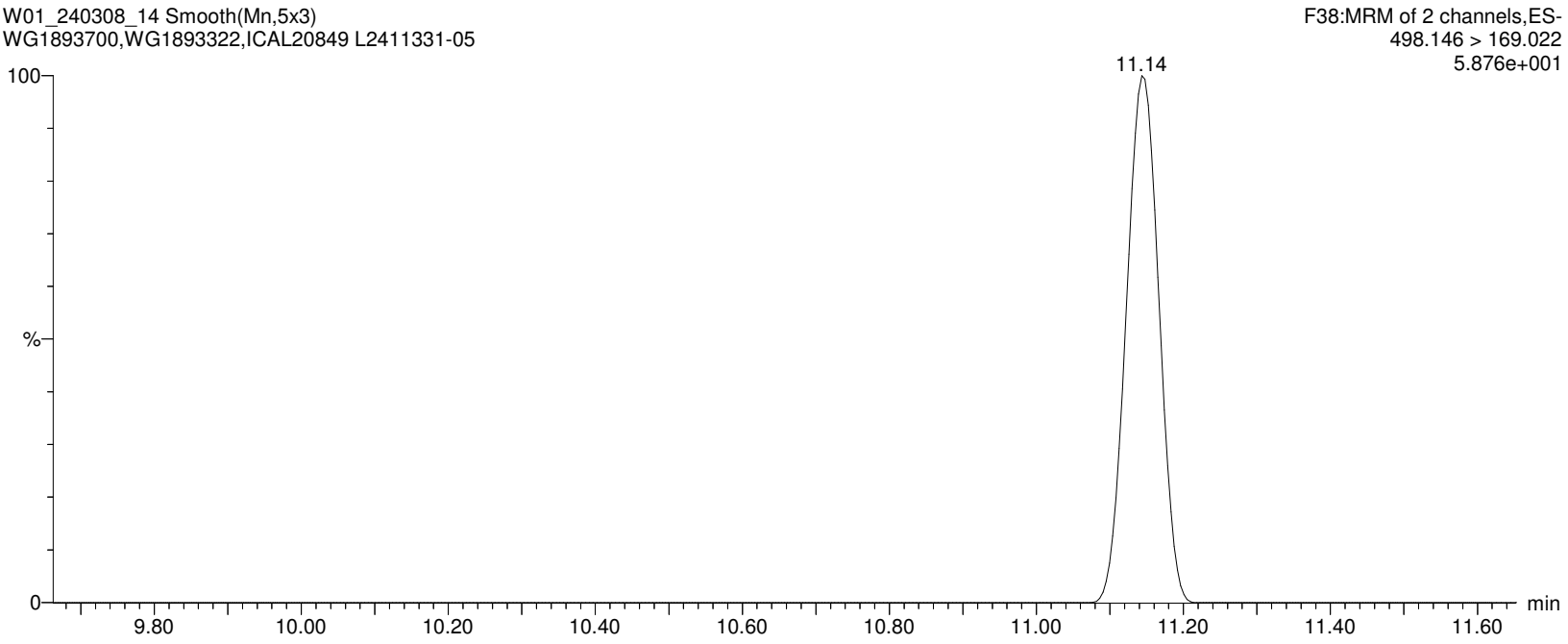

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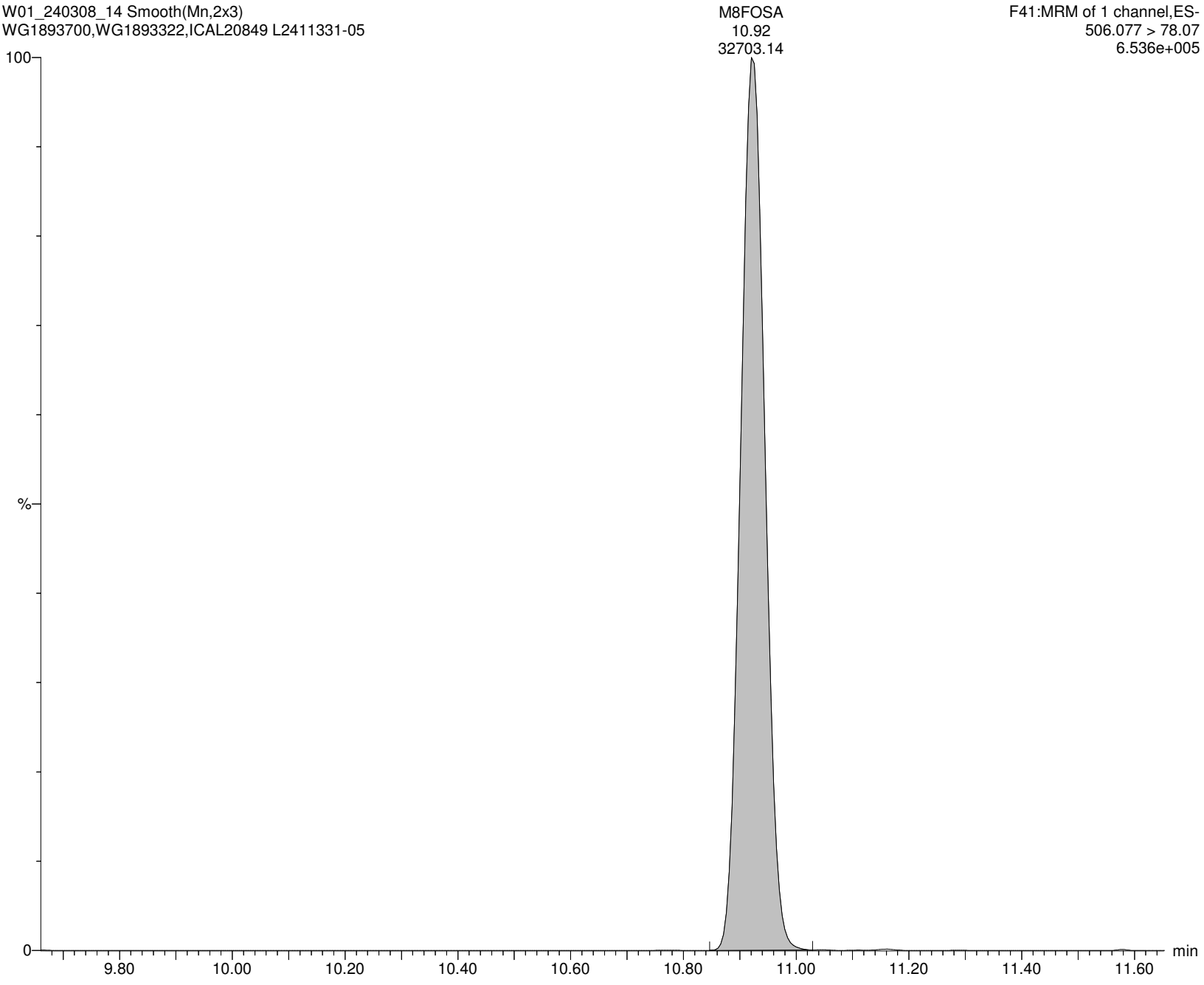

all concentration units in (ng/mL)

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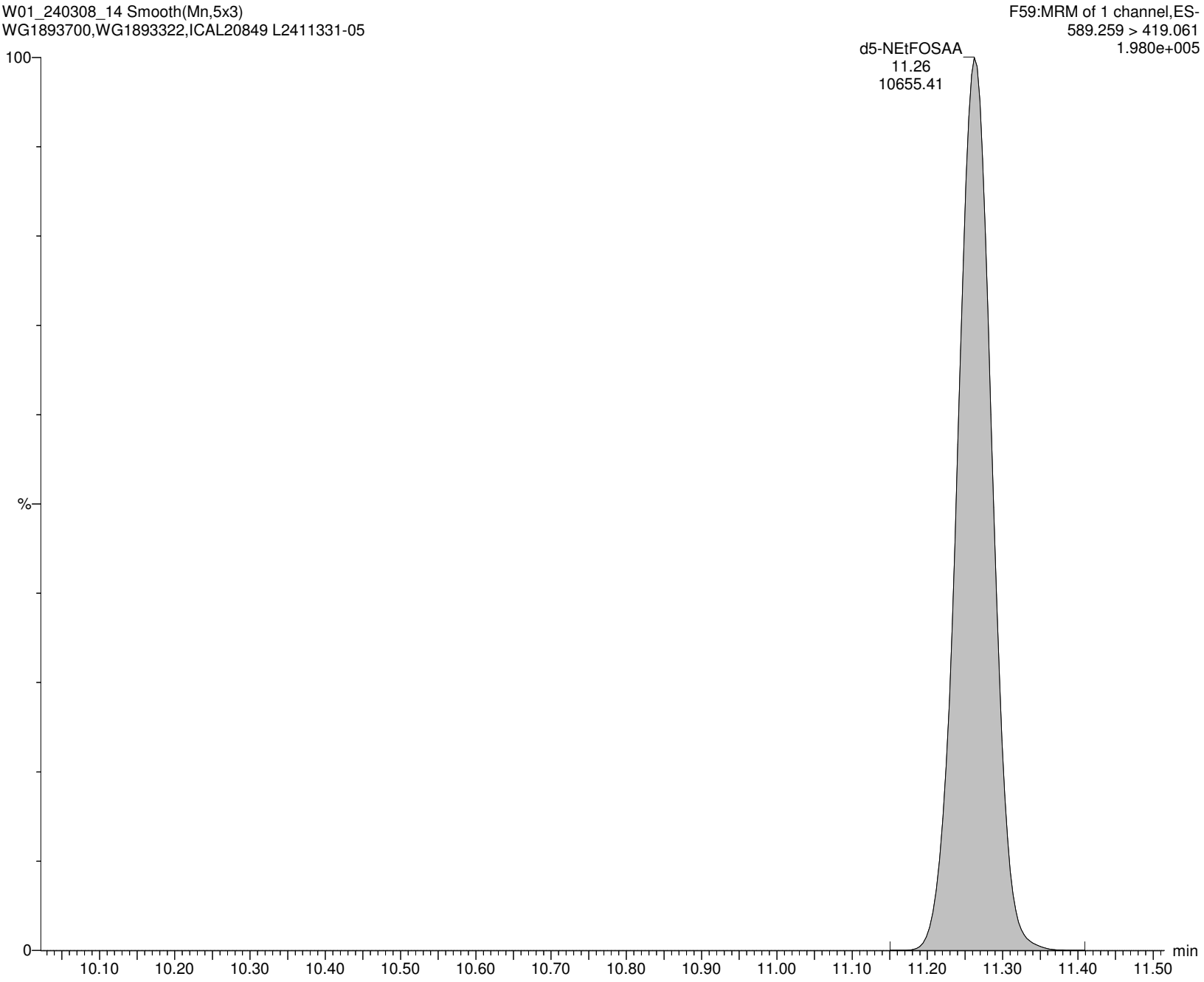

all concentration units in (ng/mL)

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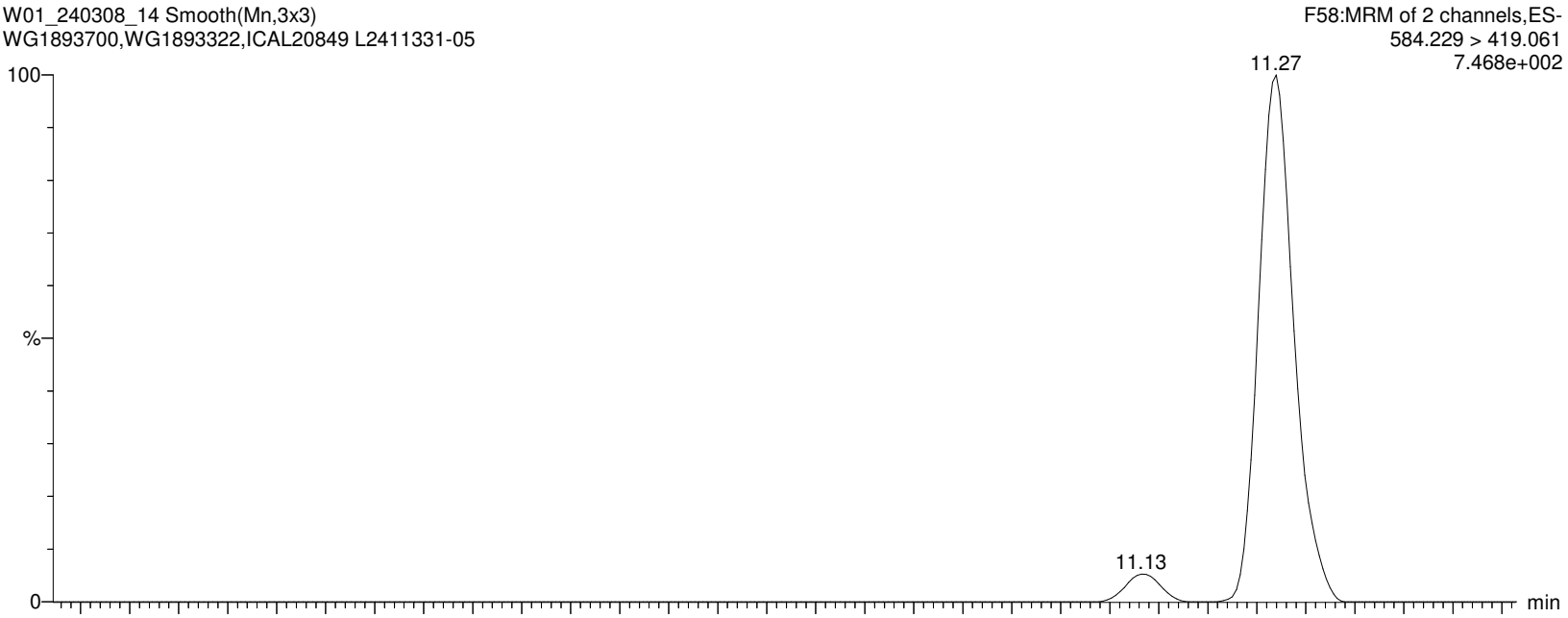

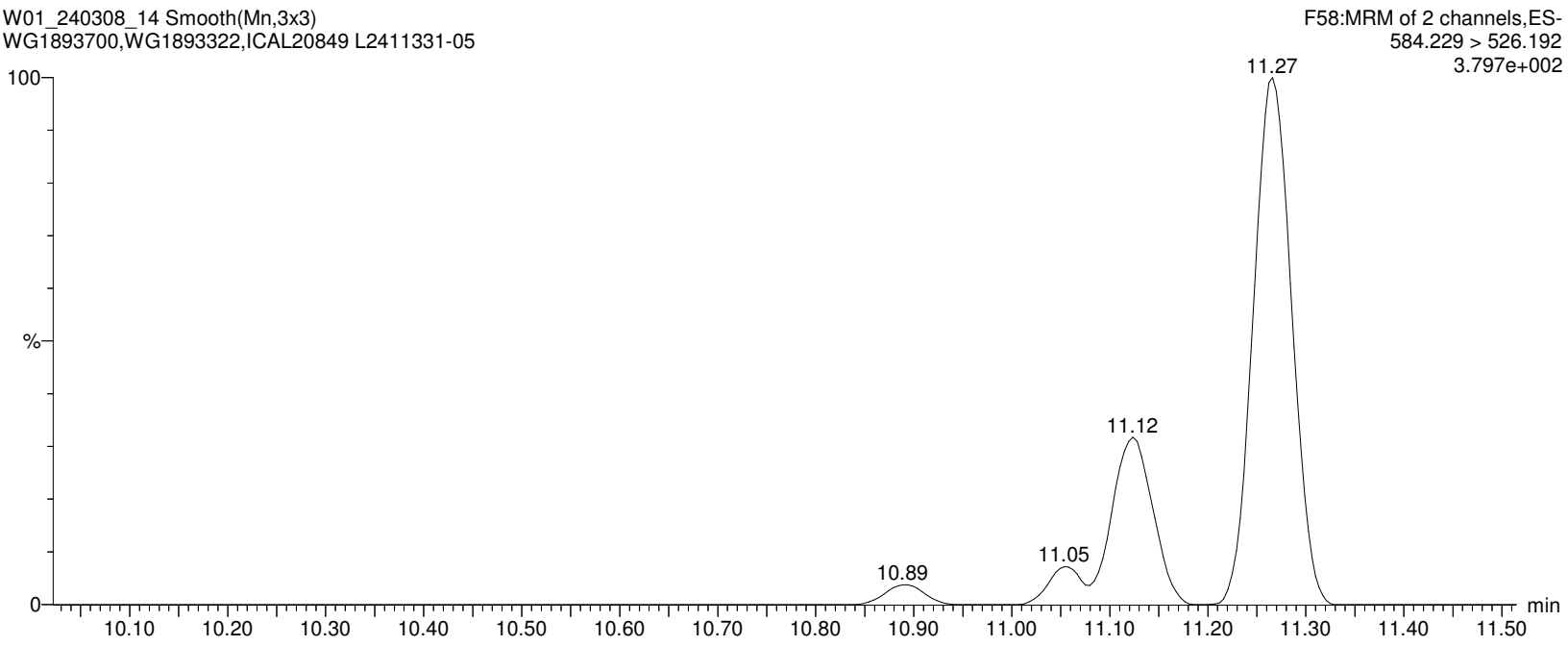

all concentration units in (ng/mL)

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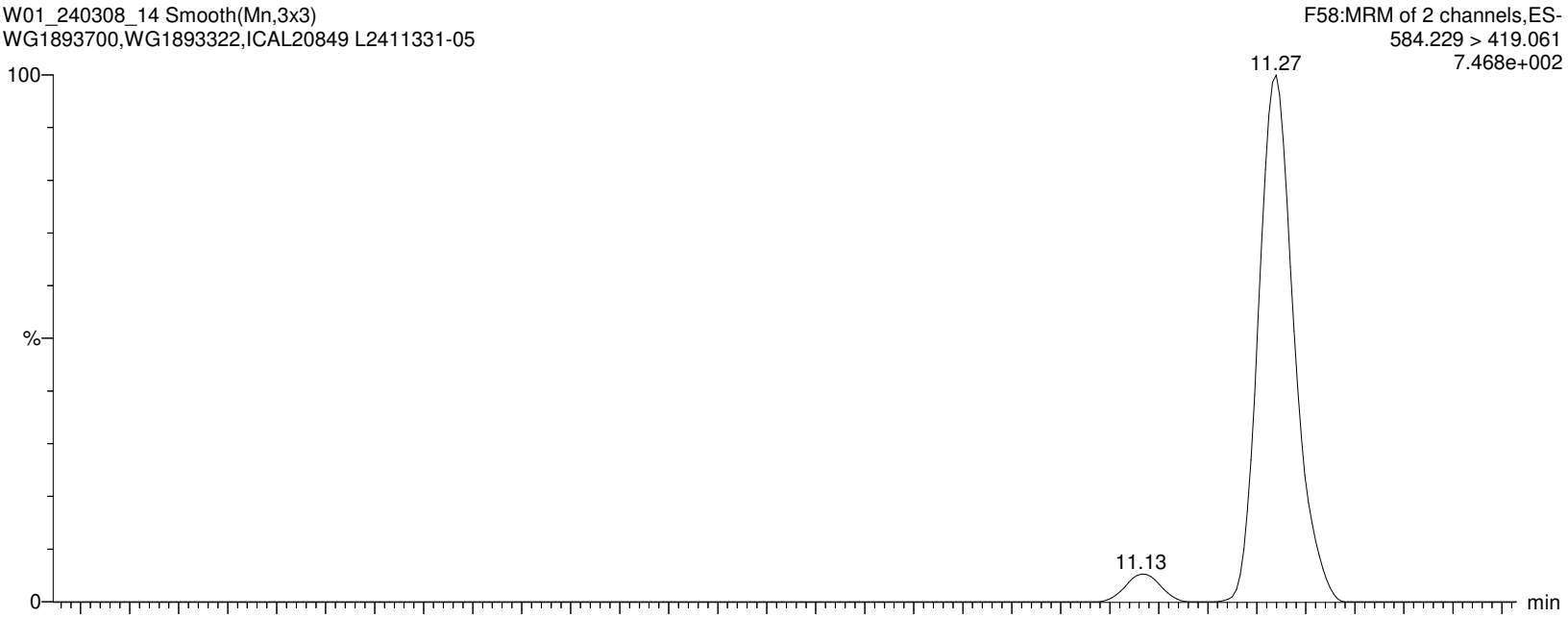

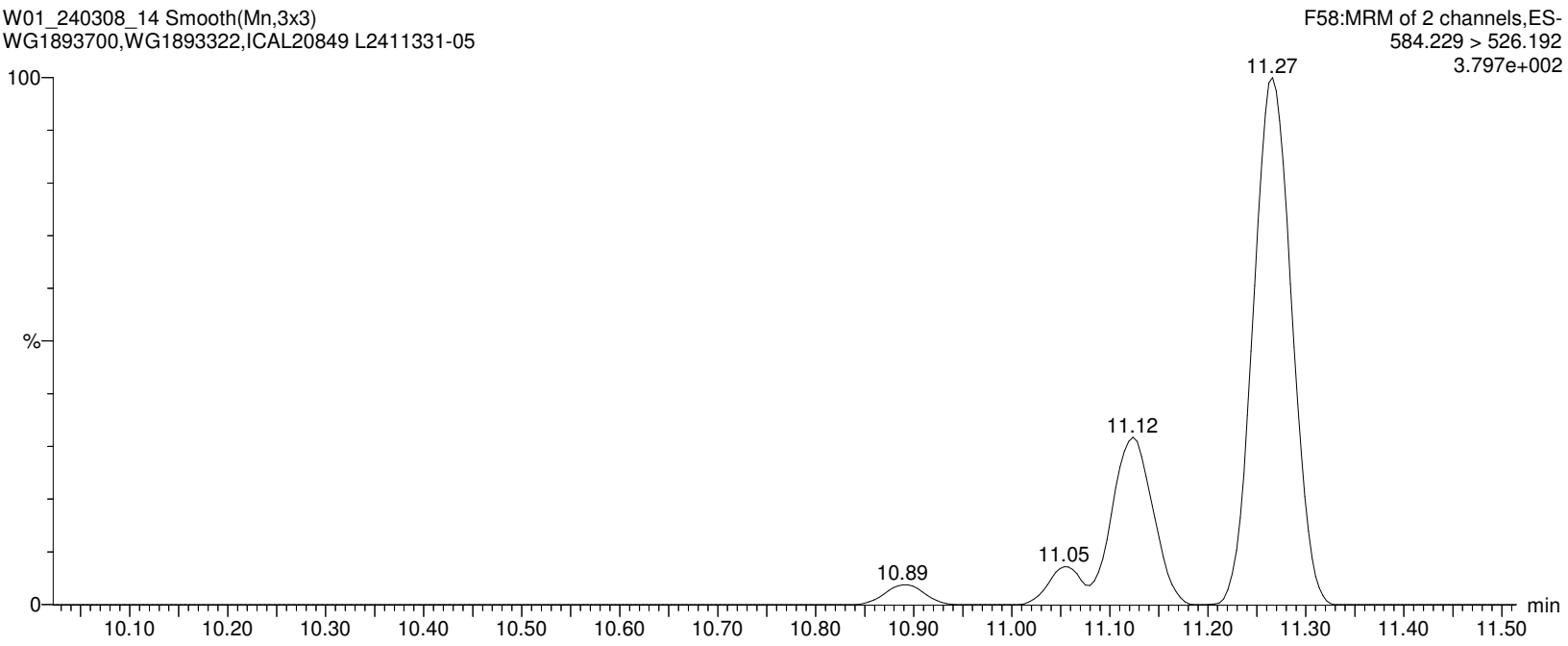

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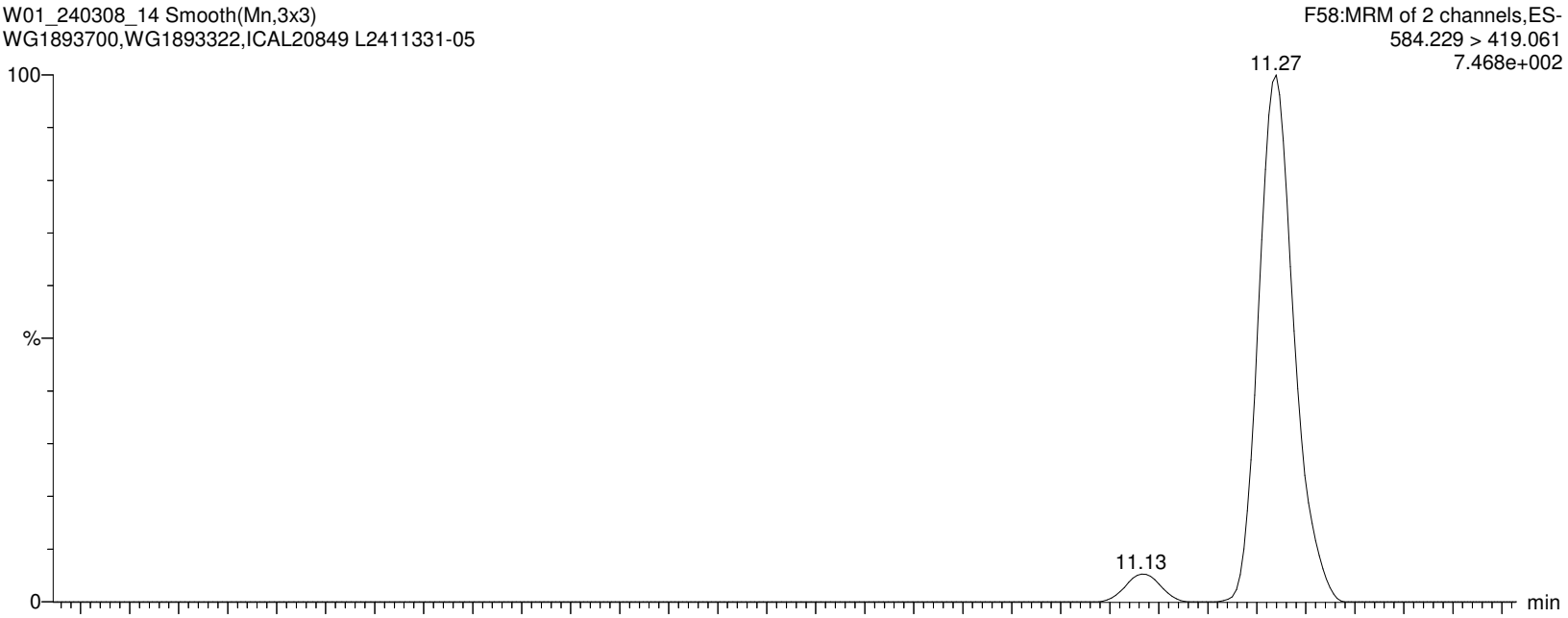

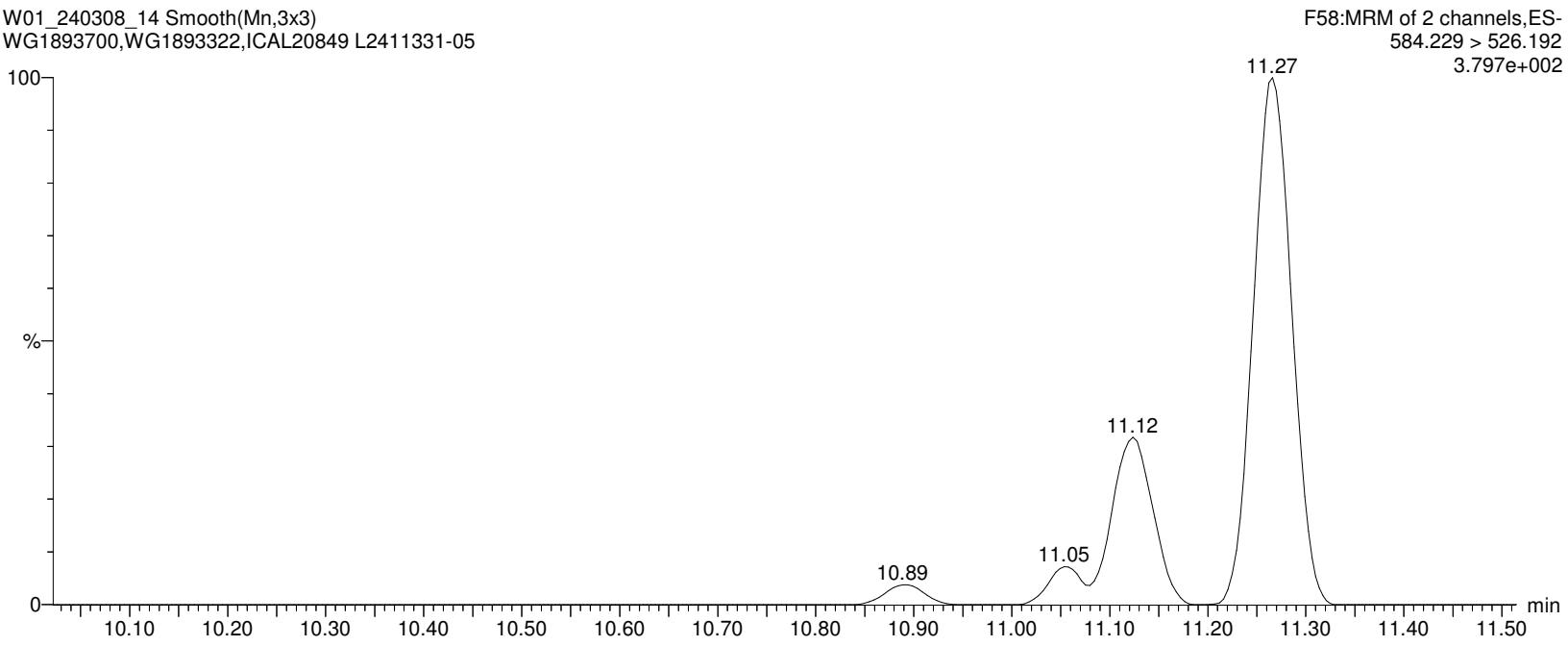

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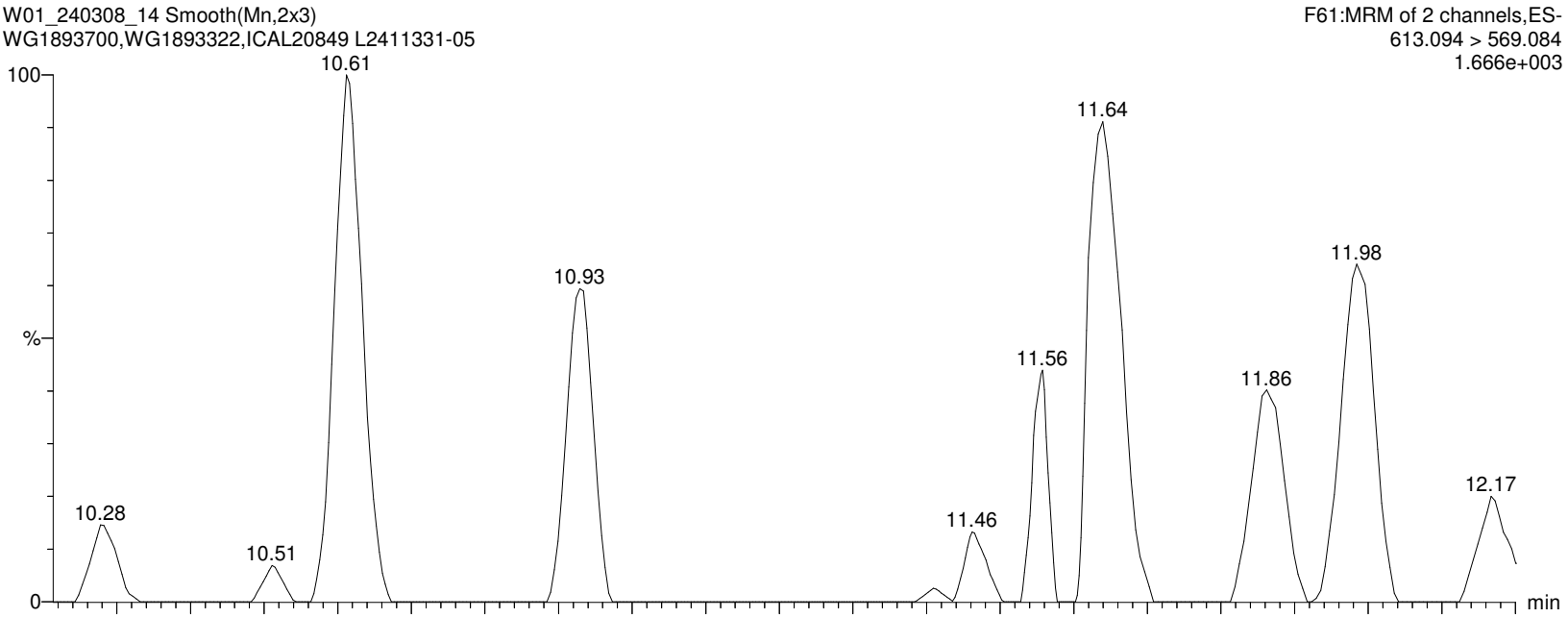

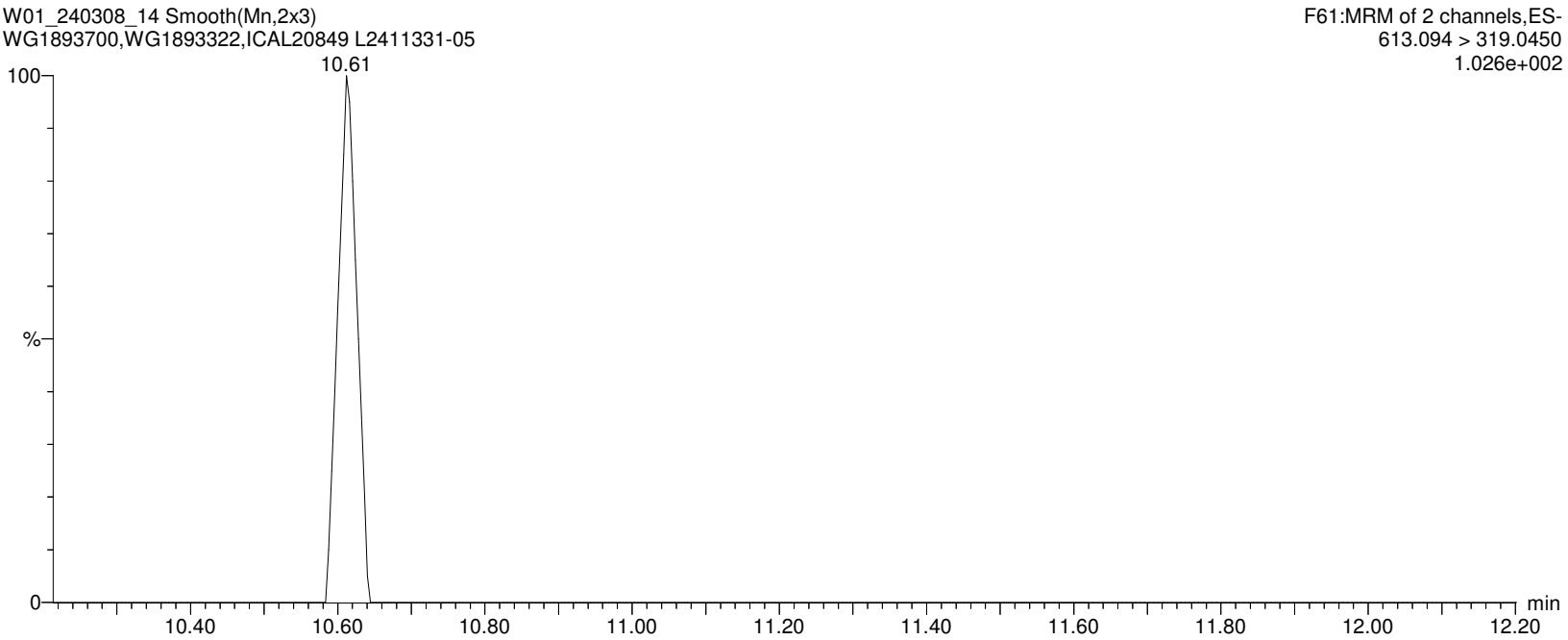

all concentration units in (ng/mL)

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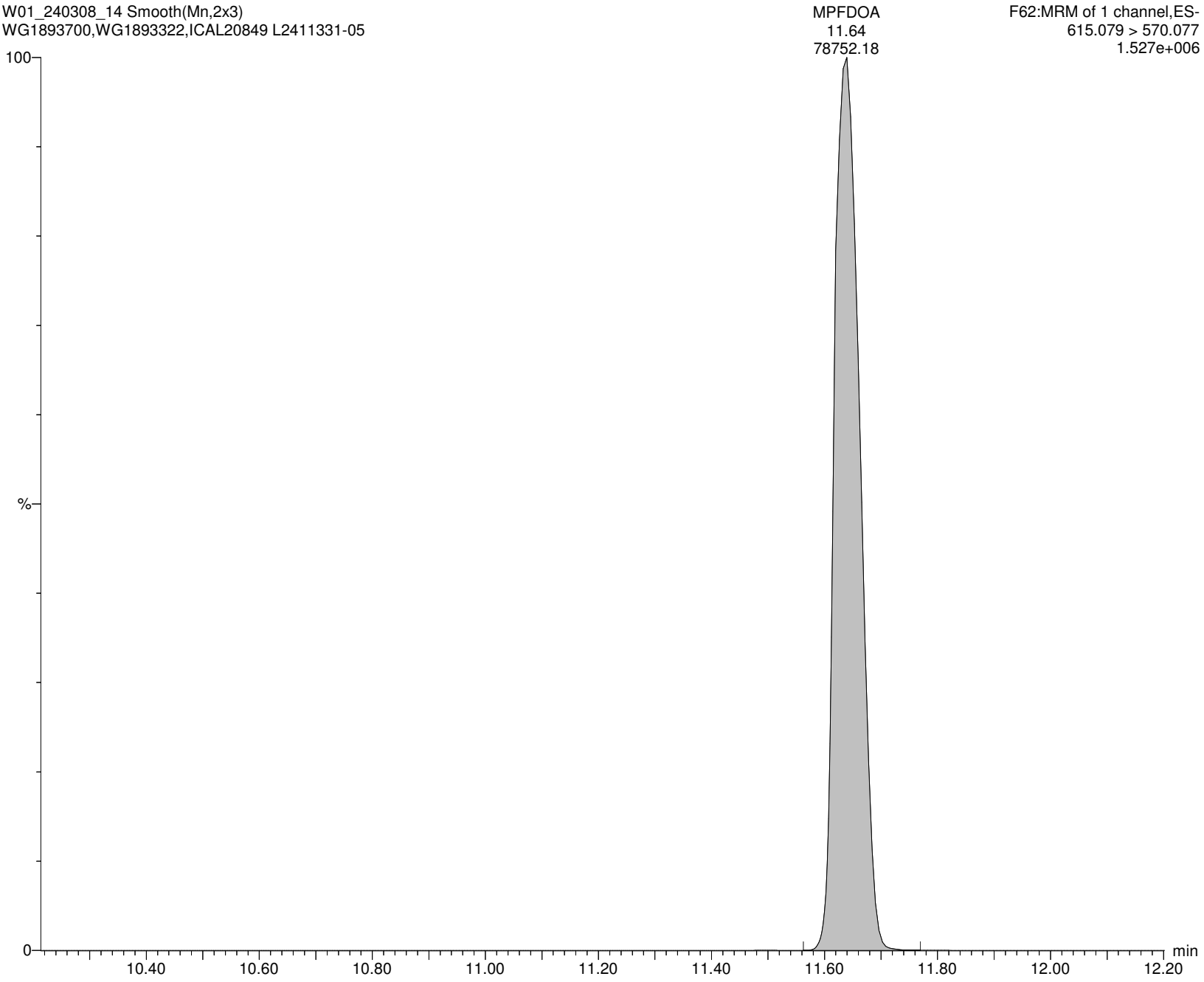

all concentration units in (ng/mL)

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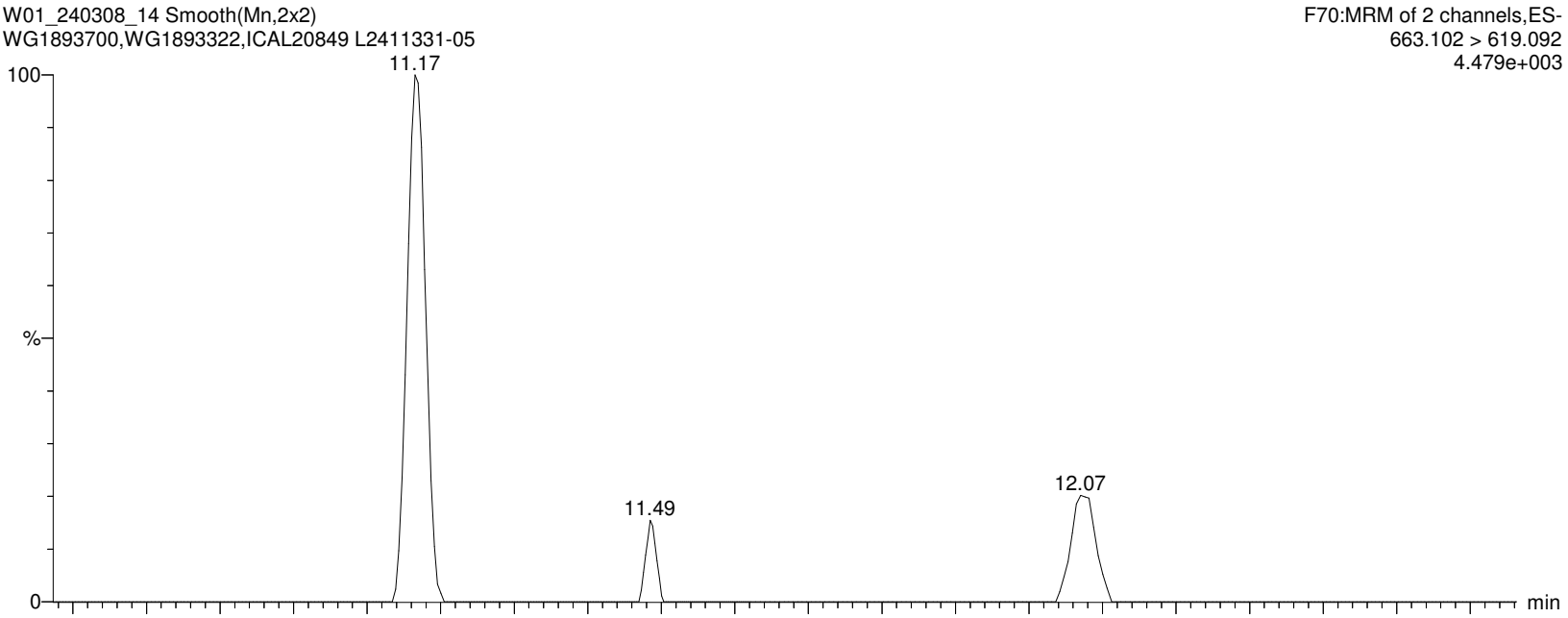

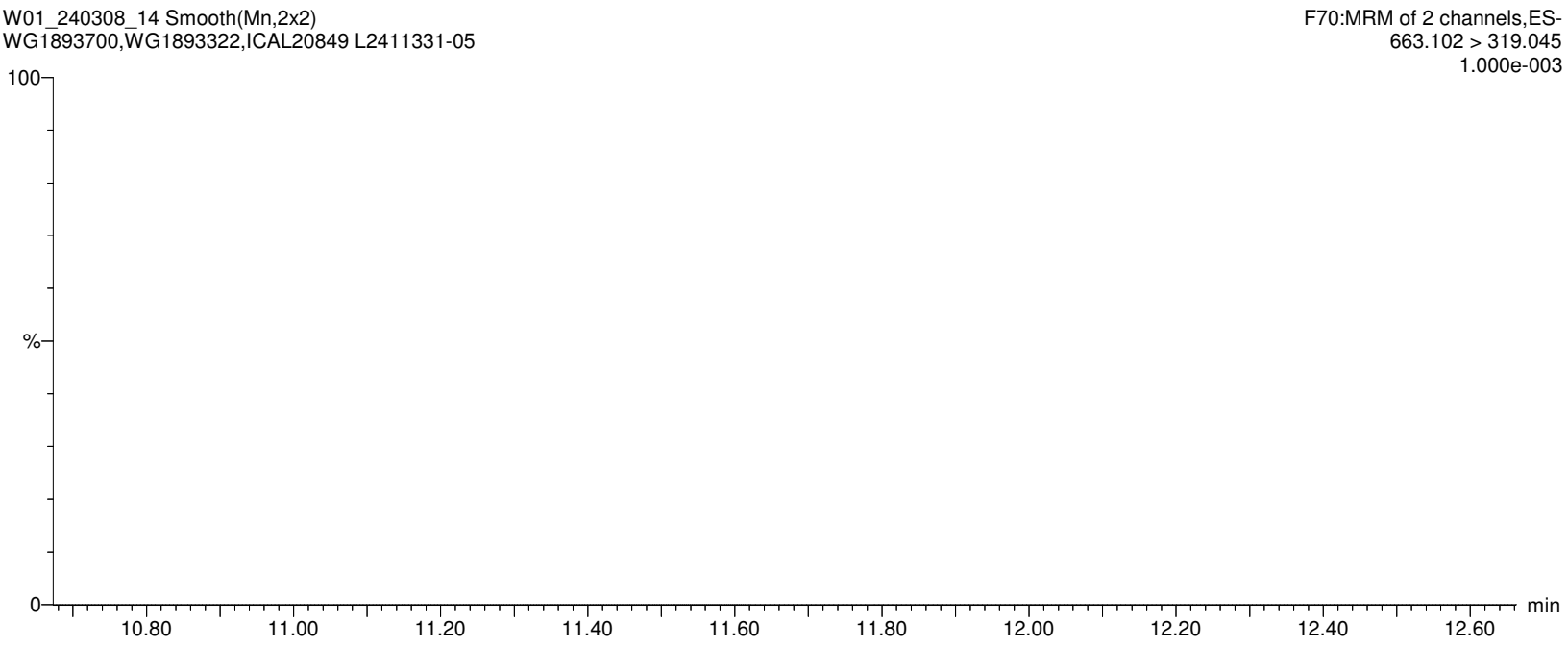

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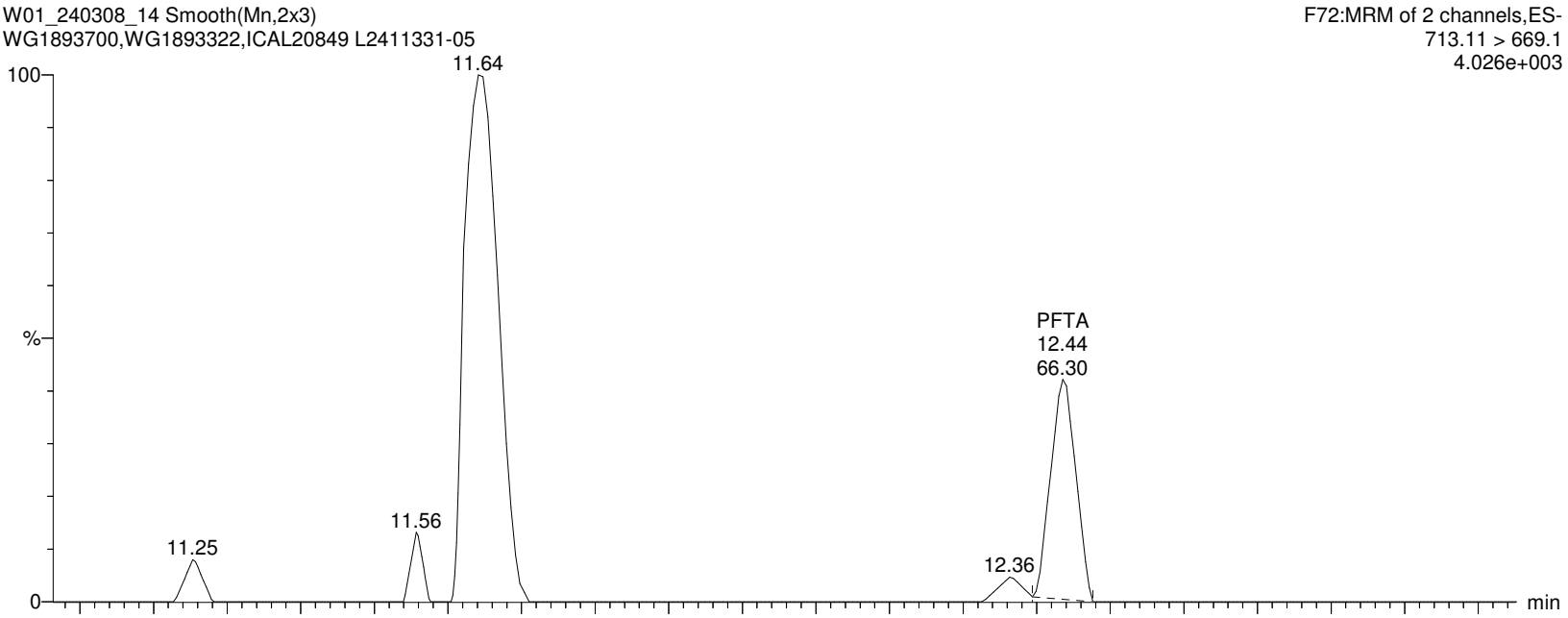

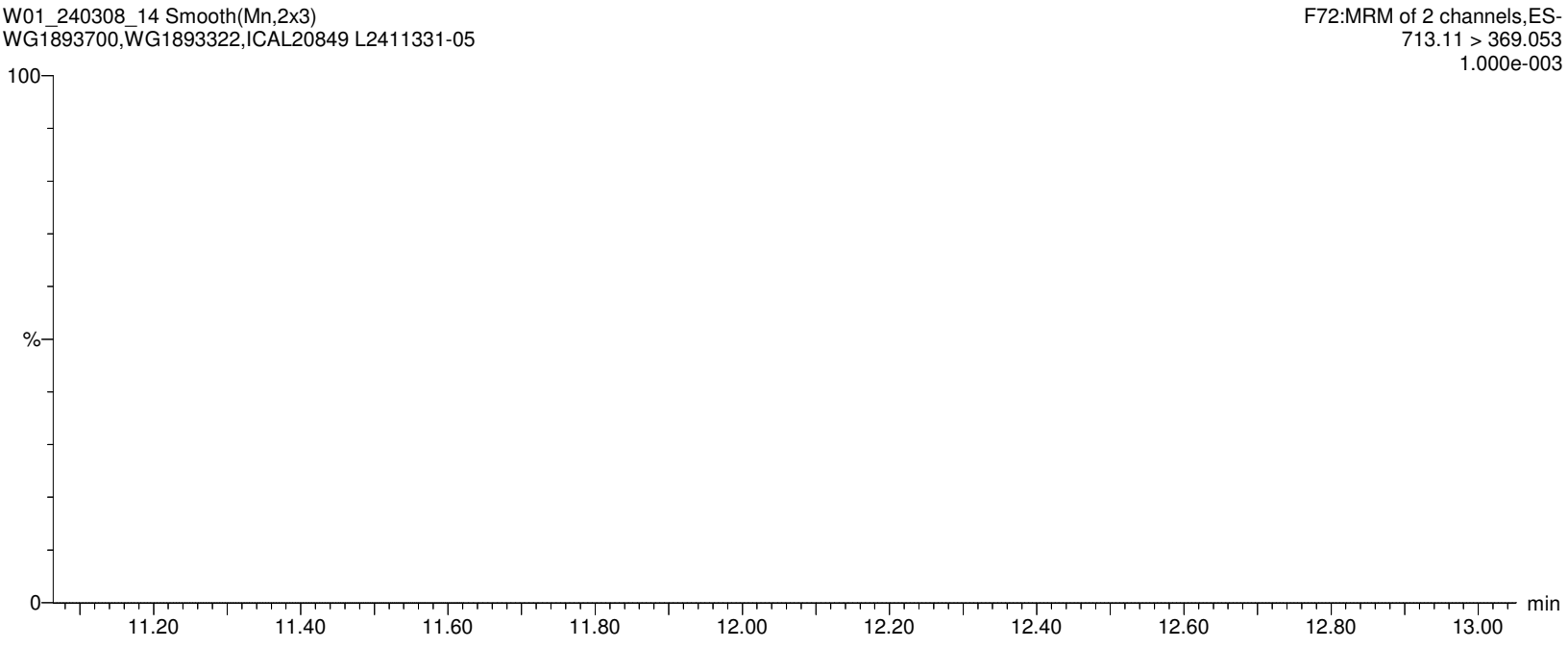

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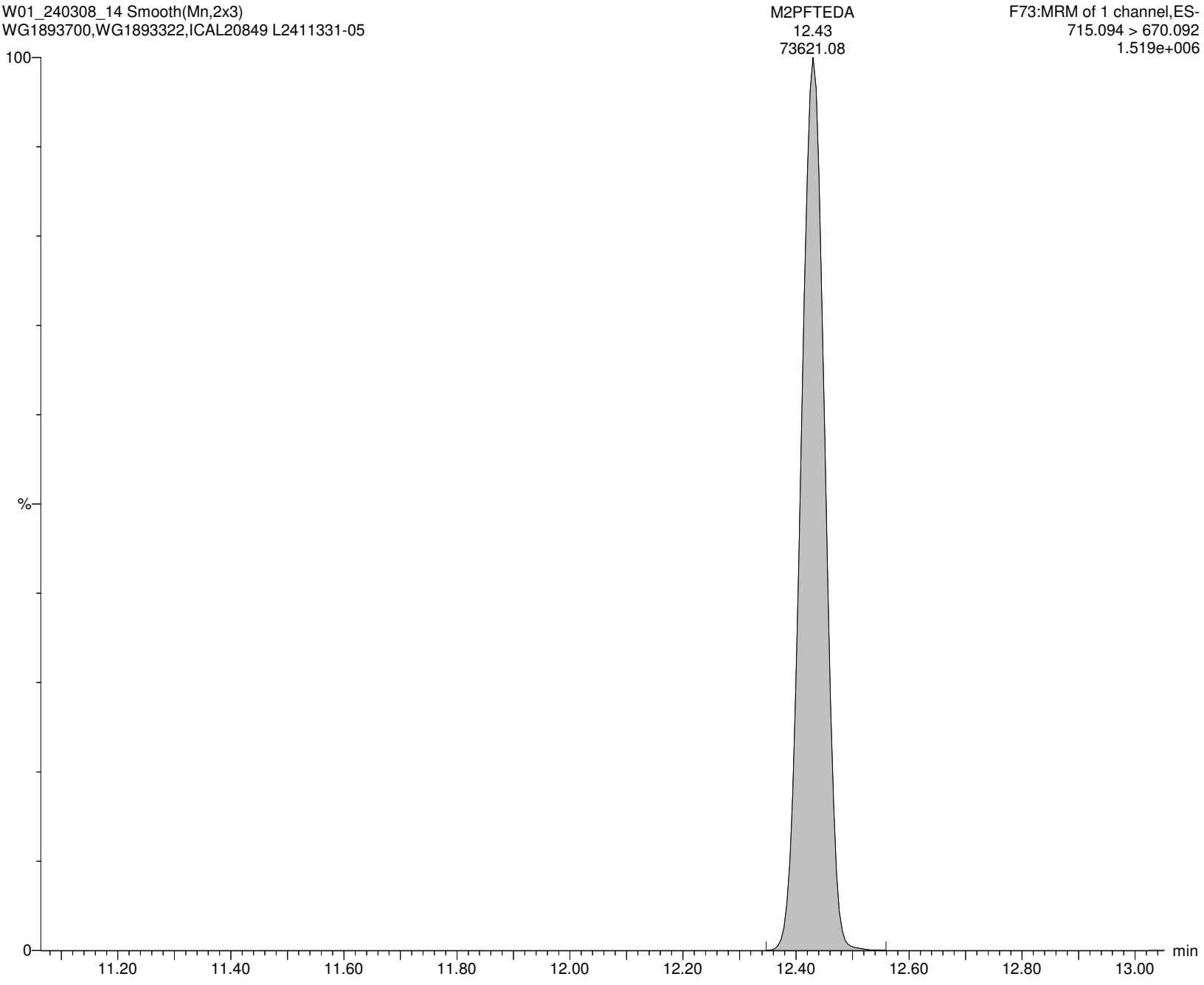


all concentration units in (ng/mL)

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

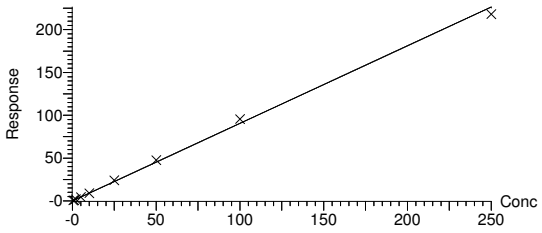
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240210_RT.mdb 11 Feb 2024 12:21:23
Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.236	83131.773	3719.511	0.494	98.8	0.895	1459		1.34
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.239	90745.328	7888.571	0.960	96.0	0.869	300		1.40
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.236	87759.445	16719.930	2.103	105.2	0.953	13890		1.39
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.236	88564.953	39917.418	4.976	99.5	0.901	8468		1.37
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.236	89276.781	79791.836	9.867	98.7	0.894	50565		1.34
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.239	88029.617	211703.125	26.551	106.2	0.962	74677		1.41
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.236	85246.242	405084.469	52.462	104.9	0.950	298727		1.33
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.236	82833.945	791497.500	105.491	105.5	0.956	498323		1.33
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.233	89480.016	1950019.875	240.596	96.2	0.872	793970		1.21

Compound name: PFBA
Coefficient of Determination: R^2 = 0.997916
Calibration curve: 0.905784 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

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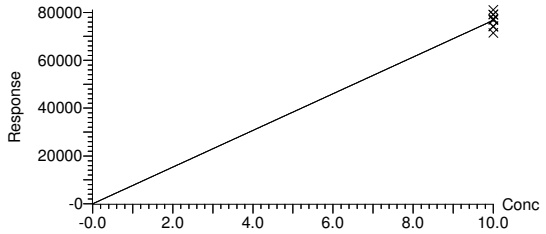
Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.237		71397.852	9.310	93.1	7139.785	94789		1.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.237		79027.422	10.304	103.0	7902.742	246551		1.40
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.237		77088.703	10.052	100.5	7708.870	224738		1.37
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.237		81076.422	10.572	105.7	8107.642	4244		1.36
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.237		77371.656	10.088	100.9	7737.166	87347		1.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.237		76834.391	10.018	100.2	7683.439	25655		1.41
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.237		74245.555	9.681	96.8	7424.556	60074		1.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.234		74050.750	9.655	96.6	7405.075	32442		1.32
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.234		79147.242	10.320	103.2	7914.724	46554		1.20

Compound name: M3PFBA
Response Factor: 7669.33
RRF SD: 300.696, % Relative SD: 3.92076
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

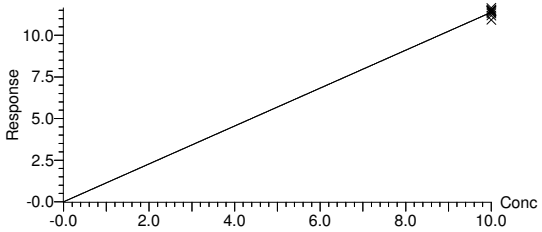
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.238	71397.852	83131.773	10.233	102.3	1.164	162350		1.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.238	79027.422	90745.328	10.092	100.9	1.148	113952		1.39
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.238	77088.703	87759.445	10.005	100.1	1.138	125673		1.36
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.238	81076.422	88564.953	9.601	96.0	1.092	2098		1.35
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.235	77371.656	89276.781	10.141	101.4	1.154	17306		1.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.238	76834.391	88029.617	10.069	100.7	1.146	63510		1.39
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.238	74245.555	85246.242	10.091	100.9	1.148	32170		1.30
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.235	74050.750	82833.945	9.831	98.3	1.119	20704		1.31
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.233	79147.242	89480.016	9.936	99.4	1.131	19991		1.20

Compound name: MPFBA
Response Factor: 1.13781
RRF SD: 0.0215877, % Relative SD: 1.8973
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

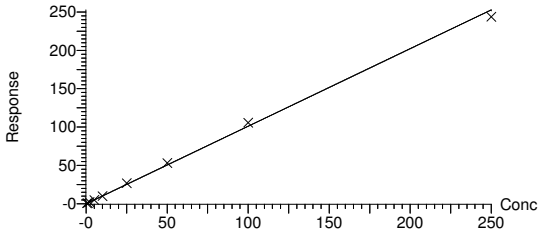
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.119	89670.125	4493.754	0.496	99.1	1.002	5795		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.119	95897.688	9531.821	0.983	98.3	0.994	20436		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.119	94071.445	19611.467	2.062	103.1	1.042	8522		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.123	93058.852	47001.410	4.996	99.9	1.010	29812		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.119	95876.742	95345.969	9.837	98.4	0.994	18305		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.121	91930.250	246986.078	26.577	106.3	1.075	70139		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.123	87845.992	468278.375	52.731	105.5	1.066	223146		0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	84811.805	897315.375	104.658	104.7	1.058	136604		0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.111	86346.578	2105057.000	241.159	96.5	0.975	610085		0.98

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.998148
Calibration curve: 1.01092 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

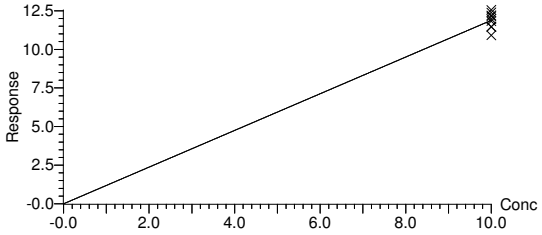
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.117	71397.852	89670.125	10.571	105.7	1.256	7740		0.97
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.117	79027.422	95897.688	10.214	102.1	1.213	25373		0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.117	77088.703	94071.445	10.271	102.7	1.220	14109		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.122	81076.422	93058.852	9.661	96.6	1.148	10868		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.117	77371.656	95876.742	10.430	104.3	1.239	24432		0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.119	76834.391	91930.250	10.071	100.7	1.196	13264		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.122	74245.555	87845.992	9.959	99.6	1.183	16742		0.97
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	74050.750	84811.805	9.640	96.4	1.145	8935		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.109	79147.242	86346.578	9.183	91.8	1.091	11989		0.97

Compound name: M5PFPEA
Response Factor: 1.18807
RRF SD: 0.05229, % Relative SD: 4.40127
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

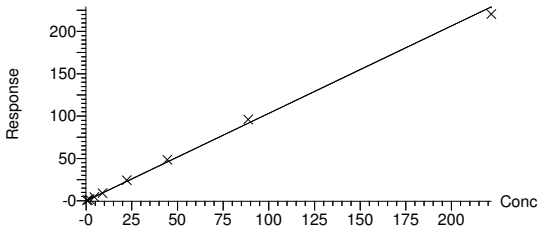
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.748	30914.898	1534.819	0.448	101.0	1.043	17211	209	1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.747	33730.434	3130.995	0.838	94.5	0.975	34749	213	1.09
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.751	32362.510	6638.477	1.851	104.4	1.078	1363	614	1.11
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.759	32735.057	15999.138	4.411	99.5	1.027	2934	1254	1.05
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.755	33695.297	32607.729	8.734	98.5	1.017	7654	4204	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.755	32123.402	84016.969	23.606	106.5	1.099	8277	4623	1.09
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.755	30360.742	157945.219	46.953	105.9	1.093	20431	4359	1.05
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.751	28440.494	293480.000	93.135	105.0	1.084	46509	12930	1.06
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.741	28074.352	663820.375	213.408	96.2	0.994	78720	55975	1.00

Compound name: PFBS
Coefficient of Determination: R^2 = 0.997897
Calibration curve: 1.03263 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

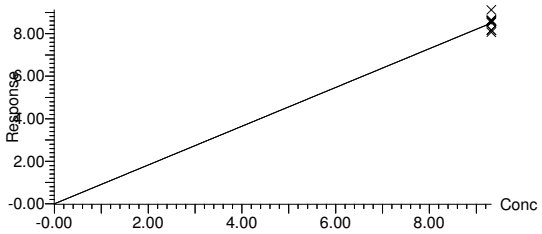
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.748	34584.156	30914.898	9.411	101.0	0.921	11192		1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.748	39610.352	33730.434	8.965	96.2	0.877	5314		1.07
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.751	38066.195	32362.510	8.951	96.0	0.876	7906		1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.759	38934.406	32735.057	8.852	95.0	0.866	23044		1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.751	37682.527	33695.297	9.414	101.0	0.921	23228		1.07
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.755	36182.203	32123.402	9.347	100.3	0.914	4802		1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.755	33694.859	30360.742	9.487	101.8	0.928	12046		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.751	31680.191	28440.494	9.452	101.4	0.925	7309		1.05
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.738	29556.729	28074.352	10.000	107.3	0.978	1404		1.02

Compound name: M3PFBS
Response Factor: 0.911822
RRF SD: 0.0347096, % Relative SD: 3.80662
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

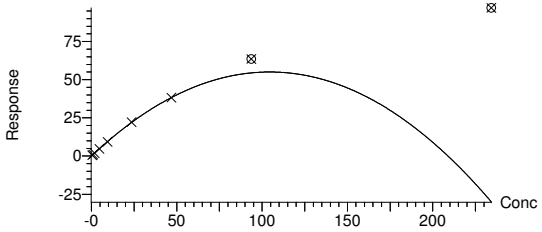
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.887	8501.737	441.584	0.463	98.9	1.040	325	22	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.891	9383.875	972.026	0.926	98.8	1.037	17976	52	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.905	9189.729	1897.794	1.854	99.0	1.034	345	21	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.900	9310.419	4795.047	4.689	100.1	1.031	86730	120	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.900	9443.604	9370.043	9.239	98.6	0.993	3643	354	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.900	10220.045	24175.262	23.752	101.4	0.947	632	2899	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.900	11501.580	46837.344	46.665	99.6	0.815	4750	1259	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.900	13625.749	92316.219			0.678	12212	7570	1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.870	22166.438	229293.922			0.414	14795	62787	1.00

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.999907
Calibration curve: -0.00504495 * x^2 + 1.05397 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

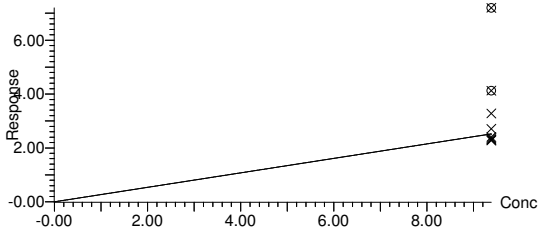
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.883	34584.156	8501.737	8.783	93.6	0.252	154469		1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.892	39610.352	9383.875	8.465	90.2	0.242	269		0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.905	38066.195	9189.729	8.626	92.0	0.247	1496		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.900	38934.406	9310.419	8.544	91.1	0.245	167967		0.93
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.900	37682.527	9443.604	8.954	95.5	0.256	167098		0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.896	36182.203	10220.045	10.092	107.6	0.289	1115		1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.900	33694.859	11501.580	12.196	130.0	0.349	508		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.905	31680.191	13625.749	15.367	163.8	0.440	2278		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.871	29556.729	22166.438	26.796	285.7	0.768	5581		1.00

Compound name: M2-4:2FTS
Response Factor: 0.268685
RRF SD: 0.0389276, % Relative SD: 14.4882
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

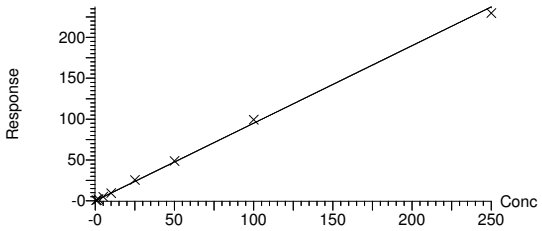
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.970	129630.148	6196.151	0.503	100.7	0.956	318	52	0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.974	138426.297	13448.761	1.023	102.3	0.972	1205	127	0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.987	135277.344	27852.594	2.168	108.4	1.029	1988	166	0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.978	134110.688	65473.094	5.141	102.8	0.976	5603	543	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.983	139504.719	131343.125	9.914	99.1	0.941	6479	1406	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.983	131542.578	335222.594	26.835	107.3	1.019	21134	4307	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.983	126140.586	615598.438	51.391	102.8	0.976	31105	5571	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.983	119056.797	1183032.125	104.637	104.6	0.994	55522	10341	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.952	115416.570	2651185.500	241.888	96.8	0.919	145894	19439	0.98

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.998410
Calibration curve: 0.949639 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

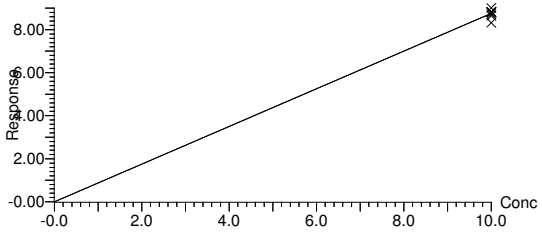
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.966	147122.797	129630.148	10.064	100.6	0.881	8302		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.970	156924.313	138426.297	10.076	100.8	0.882	16670		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.984	155094.984	135277.344	9.963	99.6	0.872	16746		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.979	161129.109	134110.688	9.507	95.1	0.832	14287		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.979	158026.125	139504.719	10.084	100.8	0.883	6055		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.979	149443.000	131542.578	10.054	100.5	0.880	15843		1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.984	139965.547	126140.586	10.294	102.9	0.901	7828		0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.984	134914.188	119056.797	10.080	100.8	0.882	2012569		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.953	133475.219	115416.570	9.877	98.8	0.865	9744		0.95

Compound name: M5PFHxA
Response Factor: 0.875463
RRF SD: 0.0188844, % Relative SD: 2.15708
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

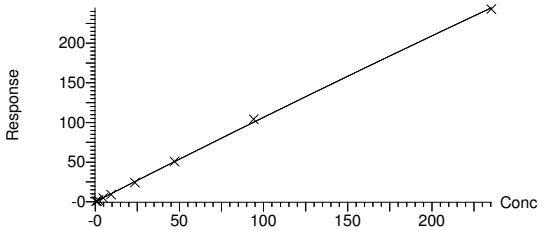
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.276	30344.182	1579.784	0.455	96.8	1.049	89	19657	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.284	34840.234	3299.471	0.829	88.0	0.954	365	39338	0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.293	33197.438	6916.627	1.823	96.9	1.049	131072	90583	0.90
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.284	33300.699	16863.186	4.433	94.2	1.020	808	1198	0.86
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.288	34096.219	32922.453	8.459	89.9	0.973	2007	2015	0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.293	32890.145	83849.109	22.387	95.2	1.027	18138	4936	0.87
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.297	29299.664	157482.328	47.406	100.8	1.083	30549	9146	0.85
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.293	25713.482	282368.781	97.716	103.8	1.106	25626	19654	0.87
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.248	24097.566	617975.438	233.822	99.4	1.033	19734	29687	0.98

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999148
Calibration curve: -0.000188313 * x^2 + 1.08376 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

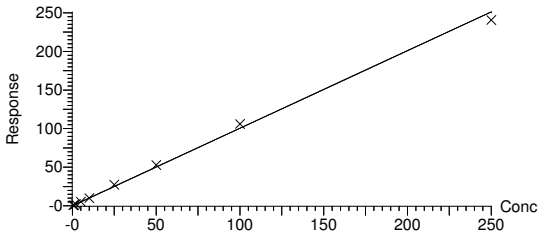
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.228	140188.172	7096.492	0.504	100.8	1.012	383	228	1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.237	150213.031	15251.950	1.010	101.0	1.015	957	309	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.237	145659.703	31596.297	2.159	107.9	1.085	1195	1147	0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.224	146303.922	75242.203	5.118	102.4	1.029	6175	855	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.233	148422.125	148033.406	9.926	99.3	0.997	11653	2472	0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.255	139448.828	380868.594	27.181	108.7	1.092	25508	9683	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.260	133829.438	706773.813	52.558	105.1	1.056	13440	10006	0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.233	122576.172	1299014.250	105.467	105.5	1.060	56211	7298	0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.174	118674.273	2856888.750	239.577	95.8	0.963	182301	26077	0.98

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.997465
Calibration curve: 1.00483 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

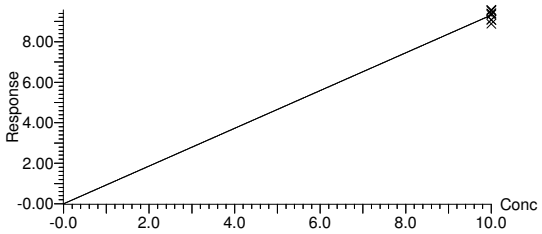
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.228	147122.797	140188.172	10.229	102.3	0.953	5242		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.237	156924.313	150213.031	10.276	102.8	0.957	8952		0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.233	155094.984	145659.703	10.082	100.8	0.939	12646		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.224	161129.109	146303.922	9.748	97.5	0.908	9790		0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.233	158026.125	148422.125	10.083	100.8	0.939	5548		0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.251	149443.000	139448.828	10.018	100.2	0.933	13640		1.04
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.255	139965.547	133829.438	10.265	102.6	0.956	8953		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.233	134914.188	122576.172	9.754	97.5	0.909	7225		0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.174	133475.219	118674.273	9.545	95.5	0.889	13346		0.96

Compound name: M4PFHpA
Response Factor: 0.931491
RRF SD: 0.0243002, % Relative SD: 2.60874
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

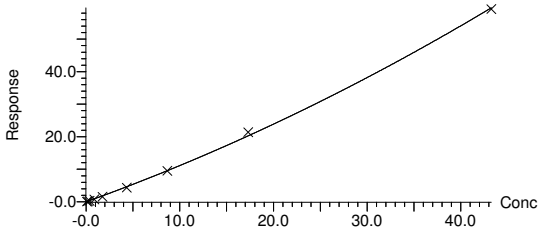
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.151	30344.182	235.791	0.071	82.3	0.852	54	14	0.44
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.161	34840.234	585.823	0.154	89.0	0.921	78	75	0.43
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.161	33197.438	1110.551	0.306	88.4	0.917	276	155	0.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.146	33300.699	2697.421	0.738	85.3	0.888	296	212	0.44
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.156	34096.219	5683.451	1.510	87.3	0.913	777	546	0.44
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.179	32890.145	15171.216	4.098	94.7	1.011	2541	1055	0.42
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.179	29299.664	29497.271	8.650	100.0	1.103	2822	2338	0.45
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.161	25713.482	57968.711	18.132	104.8	1.235	8049	4325	0.43
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.099	24097.566	150518.828	43.017	99.5	1.369	13405	8396	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.998766
Calibration curve: 0.00794896 * x^2 + 1.03458 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

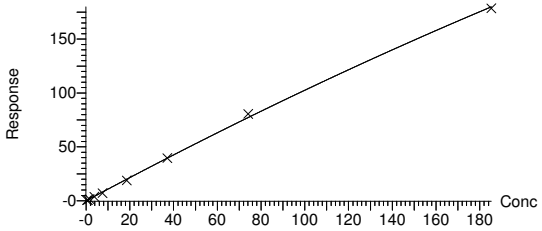
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.384	30344.182	1181.703	0.339	91.4	0.996	438	174	1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.394	34840.234	2574.682	0.643	86.8	0.945	539	822	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.389	33197.438	5572.811	1.461	98.6	1.074	2190	1537	1.06
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.379	33300.699	13165.665	3.445	93.0	1.012	2553	2093	0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.384	34096.219	25660.598	6.570	88.7	0.963	5981	5639	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.413	32890.145	66046.602	17.645	95.3	1.028	18222	9814	0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.417	29299.664	122426.898	37.148	100.3	1.069	19178	19621	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.384	25713.482	218935.922	77.584	104.7	1.089	50431	32780	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.325	24097.566	454141.531	183.765	99.2	0.964	61654	49192	1.04

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998843
Calibration curve: -0.000641881 * x^2 + 1.09018 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

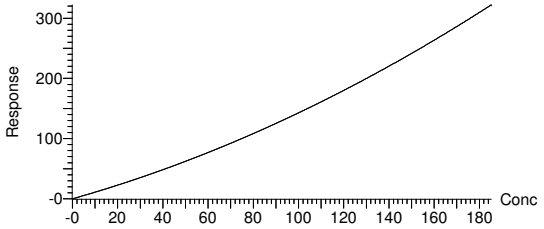
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		30344.182	1417.494	0.410					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		34840.234	3160.505	0.797					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		33197.438	6683.362	1.767					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		33300.699	15863.086	4.183					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		34096.219	31344.049	8.080					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		32890.145	81217.818	21.743					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		29299.664	151924.169	45.798					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		25713.482	276904.633	95.716					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		24097.566	604660.359	226.782					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.06238 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

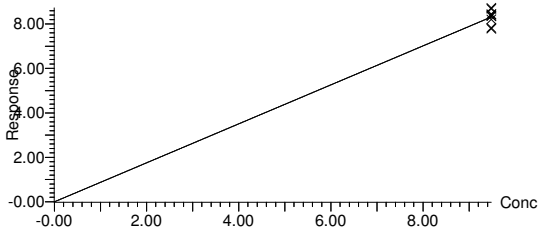
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.384	34584.156	30344.182	9.604	101.3	0.889	3397		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.394	39610.352	34840.234	9.628	101.6	0.891	2333		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.389	38066.195	33197.438	9.546	100.7	0.883	10011		1.04
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.380	38934.406	33300.699	9.362	98.8	0.866	4306		0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.384	37682.527	34096.219	9.904	104.5	0.916	685219		1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.413	36182.203	32890.145	9.950	105.0	0.921	4626		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.417	33694.859	29299.664	9.518	100.4	0.881	1490		0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.384	31680.191	25713.482	8.884	93.7	0.822	1215		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.325	29556.729	24097.566	8.924	94.1	0.826	4732		1.00

Compound name: M3PFHxS
Response Factor: 0.877045
RRF SD: 0.0346382, % Relative SD: 3.94943
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

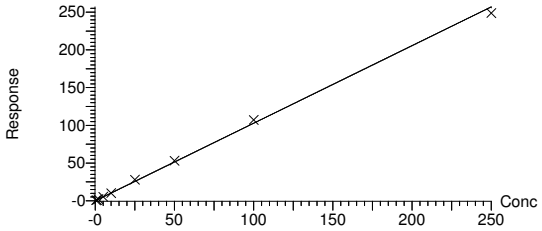
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		153514.750							
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		165433.297							
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		159386.922							
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		155077.953							
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		160522.859							
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		150279.656							
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		145207.219							
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		134480.000							
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		128925.859							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998393
Calibration curve: 1.02813 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

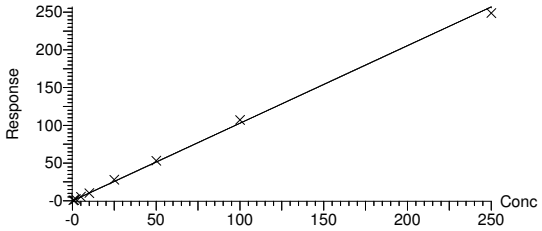
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	153514.750	8307.467	0.526	105.3	1.082	329	16938	0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.184	165433.297	16352.763	0.961	96.1	0.988	541	30065	1.05
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181	159386.922	34077.215	2.080	104.0	1.069	1883	685	0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	155077.953	82056.625	5.147	102.9	1.058	4999	1975	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	160522.859	165397.938	10.022	100.2	1.030	9183	647	1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219	150279.656	419331.688	27.140	108.6	1.116	18270	590	0.97
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	145207.219	769142.313	51.520	103.0	1.059	24102	1372	1.05
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134480.000	1440703.750	104.201	104.2	1.071	41238	6535	1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	128925.859	3206485.500	241.904	96.8	0.995	51570	6840	0.95

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998393
Calibration curve: 1.02813 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

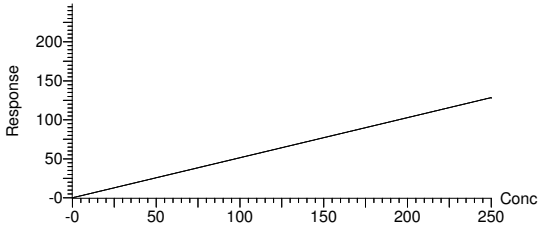
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		153514.750	8307.467	0.526					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		165433.297	16352.763	0.961					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		159386.922	34077.215	2.080					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		155077.953	82056.625	5.147					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		160522.859	165397.938	10.022					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		150279.656	419331.688	27.140					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		145207.219	769142.313	51.520					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		134480.000	1440703.750	104.201					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		128925.859	3206485.500	241.904					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.514063 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

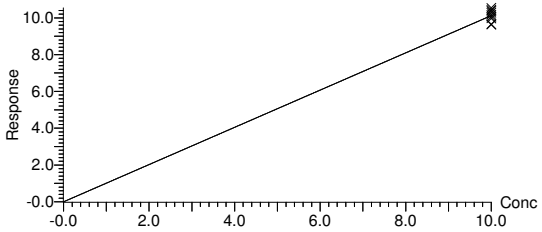
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	147122.797	153514.750	10.309	103.1	1.043	17420		0.97
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185	156924.313	165433.297	10.416	104.2	1.054	3909		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.177	155094.984	159386.922	10.153	101.5	1.028	1172		1.05
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	161129.109	155077.953	9.509	95.1	0.962	8144		0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	158026.125	160522.859	10.036	100.4	1.016	10912		0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.215	149443.000	150279.656	9.935	99.4	1.006	2820		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	139965.547	145207.219	10.250	102.5	1.037	5137		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134914.188	134480.000	9.848	98.5	0.997	2218		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	133475.219	128925.859	9.543	95.4	0.966	13872		0.91

Compound name: M8PFOA
Response Factor: 1.01215
RRF SD: 0.0326559, % Relative SD: 3.22639
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

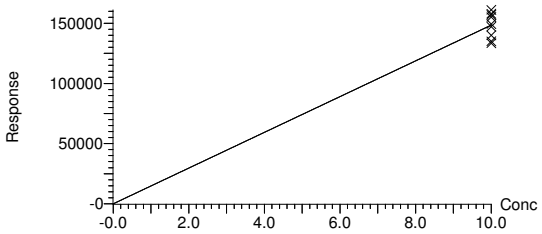
Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411331
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Instrument ID	: LCMS01	Ical Ref	: ICAL20849
Calibration dates	: 02/10/24 16:13 02/10/24 18:26		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177		147122.797	9.910	99.1	14712.280	5149		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185		156924.313	10.570	105.7	15692.431	6830		1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181		155094.984	10.447	104.5	15509.498	8378		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173		161129.109	10.854	108.5	16112.911	18076		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181		158026.125	10.645	106.4	15802.612	12943		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219		149443.000	10.067	100.7	14944.300	4007		0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223		139965.547	9.428	94.3	13996.555	3804		1.06
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173		134914.188	9.088	90.9	13491.419	6750		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116		133475.219	8.991	89.9	13347.522	4389		0.99

Compound name: M2PFOA
Response Factor: 14845.5
RRF SD: 1031.16, % Relative SD: 6.94592
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

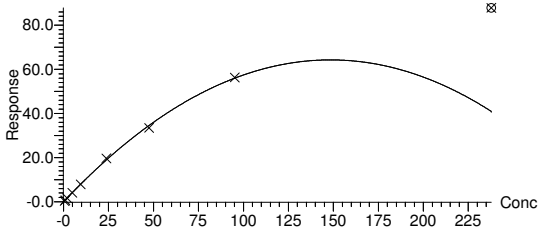
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.136	9632.247	381.124	0.435	91.5	0.791	65	61	0.90
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.139	10132.301	842.334	0.915	96.3	0.831	271	223	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.136	9832.633	1790.603	2.013	105.8	0.911	305	10530	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.128	10256.559	4409.607	4.797	100.9	0.860	96409	27838	0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.136	10473.753	8689.814	9.406	98.9	0.830	3463	53830	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.174	10932.205	22650.320	24.819	104.4	0.829	5499	1088	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.178	12133.779	42728.625	45.691	96.1	0.704	9462	276405	1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.128	14261.171	84510.313	96.298	101.3	0.593	20902	6574	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.071	21150.656	195370.766			0.369	12854	19733	0.98

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.999204
Calibration curve: -0.00291924 * x^2 + 0.866335 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

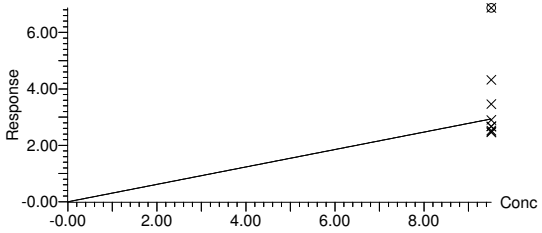
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.132	34584.156	9632.247	8.661	91.1	0.281	711		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.144	39610.352	10132.301	7.955	83.6	0.258	6291		0.92
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.136	38066.195	9832.633	8.033	84.5	0.261	217171		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.128	38934.406	10256.559	8.192	86.1	0.266	3599		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.136	37682.527	10473.753	8.644	90.9	0.281	2519		0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.174	36182.203	10932.205	9.396	98.8	0.305	1977		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.178	33694.859	12133.779	11.199	117.8	0.364	2030		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.128	31680.191	14261.171	13.999	147.2	0.454	32267		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.071	29556.729	21150.656	22.254	234.0	0.722	4674		0.97

Compound name: M2-6:2FTS
Response Factor: 0.308695
RRF SD: 0.0681176, % Relative SD: 22.0663
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

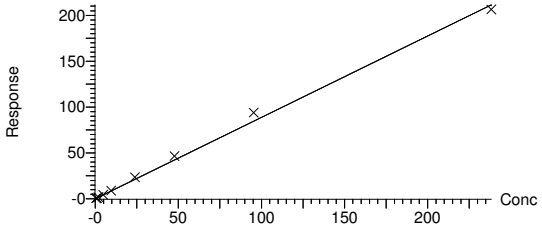
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.266	36314.703	1694.422	0.504	105.8	0.939	39037	25996	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.278	40689.613	3628.389	0.964	101.1	0.897	556	50028	0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.270	38494.648	7561.864	2.123	111.4	0.988	4185	112361	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.263	38892.625	18151.543	5.044	105.8	0.939	414373	1855	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.274	38605.141	36320.609	10.167	106.7	0.947	1583	2099	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.312	38515.820	94978.883	26.649	111.9	0.993	3418	58669	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.316	35201.945	171109.922	52.530	110.2	0.978	17906	2365	1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.266	31215.975	306050.688	105.953	111.2	0.987	18607	34133	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.209	29595.816	637270.188	232.697	97.7	0.867	73302	34603	1.01

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.996304
Calibration curve: 0.887402 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

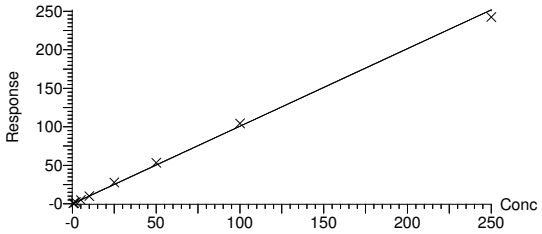
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.949	157800.344	8441.405	0.531	106.2	1.070	184	31888	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.958	173621.969	17076.375	0.976	97.6	0.984	758	51561	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.940	164422.938	35707.320	2.155	107.8	1.086	1238	132856	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.943	169127.672	84028.469	4.931	98.6	0.994	1796	286934	1.03
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.955	171216.031	171332.891	9.931	99.3	1.001	7360	2738	1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.990	158125.734	439316.063	27.573	110.3	1.111	29119	1334	1.09
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.994	147361.688	784341.313	52.824	105.6	1.065	22373	771	1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.949	137234.063	1435370.375	103.803	103.8	1.046	20218	7389	1.10
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.897	128547.320	3118641.750	240.775	96.3	0.970	33124	8858	1.01

Compound name: PFNA
Coefficient of Determination: R^2 = 0.997809
Calibration curve: 1.00761 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

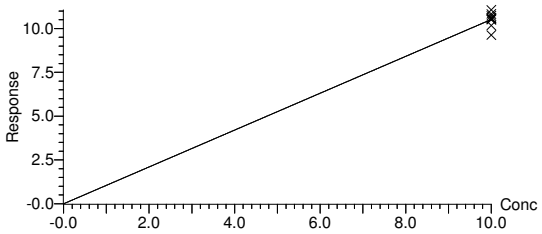
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.949	147122.797	157800.344	10.200	102.0	1.073	3317		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.958	156924.313	173621.969	10.522	105.2	1.106	3537		1.01
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.940	155094.984	164422.938	10.082	100.8	1.060	5414		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.943	161129.109	169127.672	9.982	99.8	1.050	8215		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.955	158026.125	171216.031	10.304	103.0	1.083	10875		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.990	149443.000	158125.734	10.063	100.6	1.058	6064		1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.990	139965.547	147361.688	10.013	100.1	1.053	4705		1.11
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.949	134914.188	137234.063	9.674	96.7	1.017	3156		1.05
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.894	133475.219	128547.320	9.159	91.6	0.963	9608		1.08

Compound name: M9PFNA
Response Factor: 1.05149
RRF SD: 0.0412298, % Relative SD: 3.92106
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

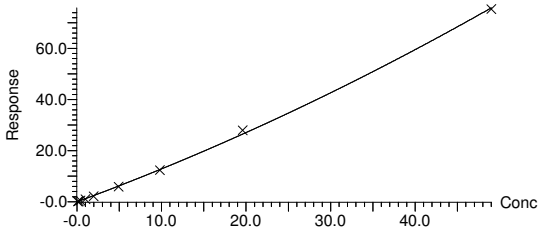
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.811	36314.703	360.542	0.078	79.6	0.972	74	25	0.30
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.819	40689.613	837.755	0.162	82.5	1.007	86	67	0.32
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.799	38494.648	1856.059	0.378	96.4	1.180	160	190	0.33
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.802	38892.625	4341.658	0.873	89.1	1.092	283	200	0.30
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.814	38605.141	8687.390	1.751	89.3	1.101	1730	465	0.32
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.849	38515.820	23606.119	4.694	95.8	1.200	1176	1679	0.33
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.852	35201.945	45407.805	9.627	98.2	1.262	4744	3717	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.808	31215.975	91048.945	20.594	105.1	1.427	9918	7351	0.33
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.757	29595.816	232519.797	48.730	99.4	1.538	16808	7421	0.31

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.998841
Calibration curve: 0.00667772 * x^2 + 1.22073 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

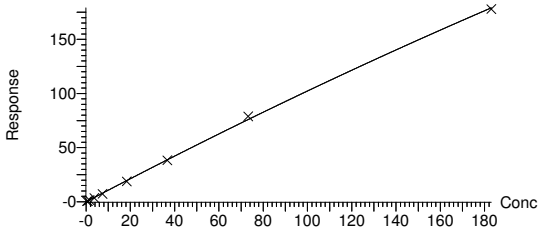
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999	36314.703	1525.751	0.374	102.2	1.101	592	263	1.09
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...	40689.613	3068.615	0.672	91.8	0.988	662	655	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988	38494.648	6434.849	1.489	101.7	1.095	1166	1782	1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.995	38892.625	14618.736	3.352	91.6	0.985	1913	1888	1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...	38605.141	29570.025	6.843	93.5	1.003	11564	4340	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...	38515.820	75321.109	17.565	96.0	1.025	7051	13843	1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...	35201.945	141060.859	36.338	99.3	1.050	27001	28655	1.16
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.0...	31215.975	256788.313	76.143	104.0	1.078	53081	55160	1.08
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947	29595.816	549437.000	181.848	99.4	0.973	78659	49011	1.10

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.999270
Calibration curve: -0.000539564 * x^2 + 1.07715 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

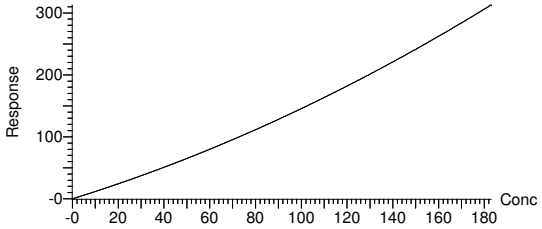
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		36314.703	1886.293	0.452					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		40689.613	3906.370	0.833					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		38494.648	8290.908	1.867					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		38892.625	18960.394	4.225					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		38605.141	38257.415	8.594					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		38515.820	98927.228	22.260					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		35201.945	186468.664	45.964					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		31215.975	347837.258	96.737					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		29595.816	781956.797	230.578					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.14894 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

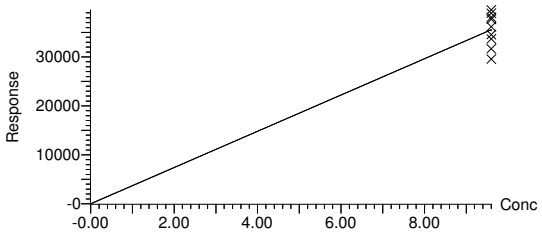
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999		34584.156	9.338	97.3	3602.516	1873		1.10
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...		39610.352	10.695	111.4	4126.078	946913		1.11
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988		38066.195	10.278	107.1	3965.229	944760		1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.991		38934.406	10.513	109.5	4055.667	2652		1.13
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...		37682.527	10.175	106.0	3925.263	893023		1.13
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...		36182.203	9.769	101.8	3768.979	1331		1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...		33694.859	9.098	94.8	3509.881	458		1.16
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.0...		31680.191	8.554	89.1	3300.020	2974		1.07
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947		29556.729	7.981	83.1	3078.826	519		1.04

Compound name: M4PFOS
Response Factor: 3703.61
RRF SD: 357.991, % Relative SD: 9.66602
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

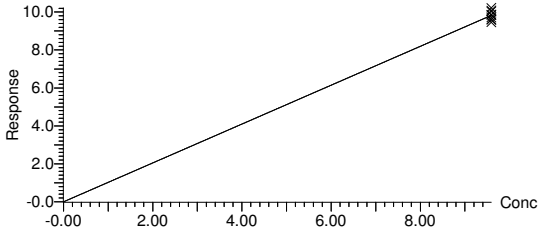
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999	34584.156	36314.703	9.843	102.6	1.051	881111		1.06
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...	39610.352	40689.613	9.629	100.4	1.028	4351		1.09
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988	38066.195	38494.648	9.479	98.8	1.012	808		1.06
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.992	38934.406	38892.625	9.363	97.6	1.000	613		1.07
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...	37682.527	38605.141	9.603	100.1	1.026	705		1.12
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...	36182.203	38515.820	9.978	104.0	1.066	2197		1.10
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...	33694.859	35201.945	9.793	102.1	1.046	770150		1.12
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.999	31680.191	31215.975	9.236	96.3	0.986	715585		1.17
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947	29556.729	29595.816	9.386	97.9	1.002	686045		1.06

Compound name: M8PFOS
Response Factor: 1.02416
RRF SD: 0.0263676, % Relative SD: 2.57455
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

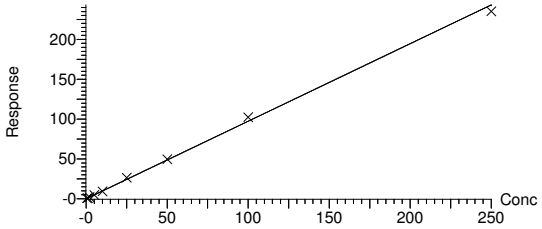
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...	143000.563	6687.719	0.481	96.1	0.935	171354	35728	1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	152266.281	14594.298	0.985	98.5	0.958	321	78797	0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	146512.063	31389.770	2.201	110.1	1.071	1522	161084	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	143507.344	69713.453	4.991	99.8	0.972	1644	332251	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	149608.828	140701.641	9.663	96.6	0.940	3387	720082	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	136199.500	359140.063	27.093	108.4	1.055	6836	707	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	125546.047	625113.563	51.158	102.3	0.996	111754	4168	0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...	109287.211	1119599.625	105.258	105.3	1.024	24470	5229	0.94
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	99675.523	2344505.000	241.671	96.7	0.941	41767	1928	0.99

Compound name: PFDA
Coefficient of Determination: R^2 = 0.998135
Calibration curve: 0.973282 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

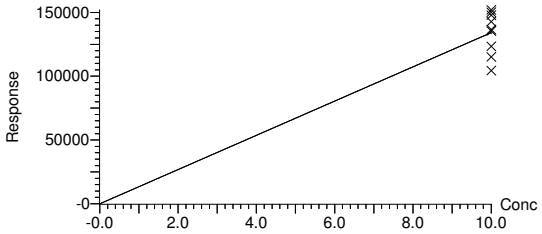
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...		136559.891	10.178	101.8	13655.989	12693		0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...		150113.188	11.189	111.9	15011.319	26107		0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...		147771.969	11.014	110.1	14777.197	103529		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...		152003.078	11.330	113.3	15200.308	15912		1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...		142807.422	10.644	106.4	14280.742	36015		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...		135401.750	10.092	100.9	13540.175	17408		1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...		123363.789	9.195	91.9	12336.379	24905		0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...		115040.492	8.575	85.7	11504.049	23871		0.93
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...		104424.445	7.783	77.8	10442.445	42243		0.99

Compound name: M2PFDA
Response Factor: 13416.5
RRF SD: 1660.78, % Relative SD: 12.3787
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

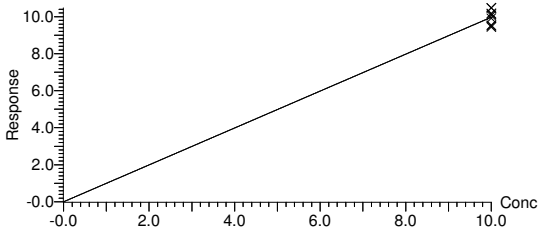
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	136559.891	143000.563	10.503	105.0	1.047	15719		1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	150113.188	152266.281	10.174	101.7	1.014	891		0.93
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	147771.969	146512.063	9.945	99.4	0.991	985		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	152003.078	143507.344	9.470	94.7	0.944	2830		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	142807.422	149608.828	10.508	105.1	1.048	2330		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	135401.750	136199.500	10.089	100.9	1.006	4977		0.97
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	123363.789	125546.047	10.208	102.1	1.018	6675		0.94
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	115040.492	109287.211	9.529	95.3	0.950	2100		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	104424.445	99675.523	9.574	95.7	0.955	1278		0.97

Compound name: M6PFDA
Response Factor: 0.996979
RRF SD: 0.0398901, % Relative SD: 4.0011
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

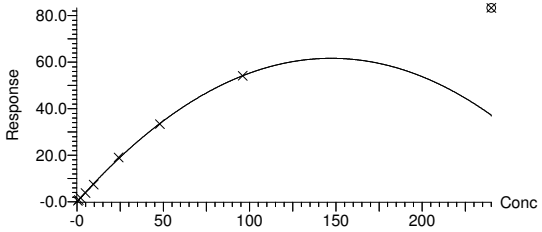
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	10722.429	471.668	0.505	105.3	0.880	308	93	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.5...	11001.994	897.808	0.939	97.8	0.816	21945	9218	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	11425.356	2028.275	2.050	106.8	0.888	478	1886	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	11368.619	4528.209	4.641	96.7	0.797	2004	478	0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.5...	12113.436	9342.728	9.127	95.1	0.771	2388	1518	1.09
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	11674.874	23197.916	24.887	103.7	0.795	3376	214133	1.04
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	12183.194	42391.984	47.586	99.1	0.696	11134	11500	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	13487.151	76124.891	96.012	100.0	0.564	21161	4632	0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	19016.189	165090.688			0.347	11943	6370	1.05

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999403
Calibration curve: -0.00284152 * x^2 + 0.837175 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

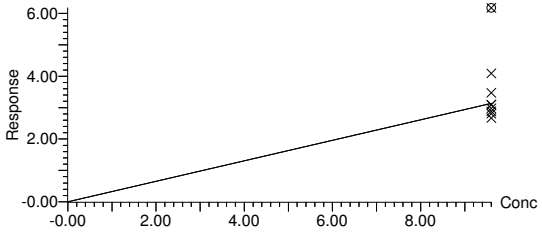
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	34584.156	10722.429	9.118	95.0	0.310	500		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.5...	39610.352	11001.994	8.169	85.1	0.278	238948		0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	38066.195	11425.356	8.827	92.0	0.300	320		1.02
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	38934.406	11368.619	8.588	89.5	0.292	1859		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.5...	37682.527	12113.436	9.454	98.5	0.321	272763		0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	36182.203	11674.874	9.490	98.9	0.323	271981		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	33694.859	12183.194	10.634	110.8	0.362	275365		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	31680.191	13487.151	12.521	130.4	0.426	199		0.95
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	29556.729	19016.189	18.922	197.1	0.643	2853		1.04

Compound name: M2-8:2FTS
Response Factor: 0.326421
RRF SD: 0.0472814, % Relative SD: 14.4848
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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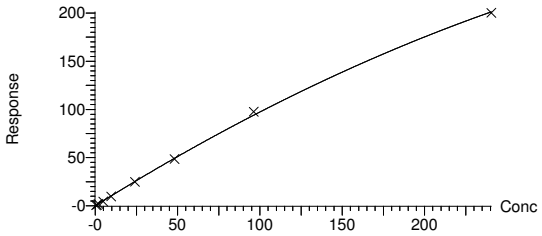
Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...	36314.703	1534.627	0.379	78.7	0.843	45	21254	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	40689.613	4170.767	0.919	95.5	1.022	372	50006	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.6...	38494.648	8346.744	1.945	101.1	1.081	1125	122259	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.6...	38892.625	18267.594	4.223	87.8	0.936	484404	263963	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	38605.141	39586.168	9.262	96.3	1.022	8360	31941	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	38515.820	99755.484	23.707	98.6	1.033	901	1334739	1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	35201.945	177845.766	47.280	98.3	1.007	14911	431	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...	31215.975	317555.750	100.241	104.2	1.014	4070	3613	1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	29595.816	618042.938	238.874	99.3	0.833	5680	7190	1.07

Compound name: PFNS
Coefficient of Determination: R^2 = 0.999230
Calibration curve: -0.000972784 * x^2 + 1.07075 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

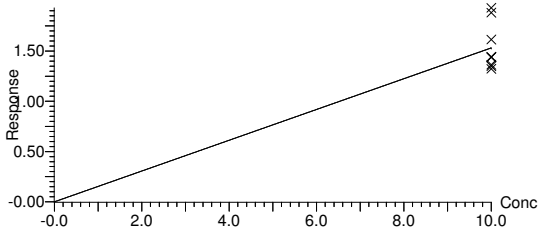
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	136559.891	19698.619	9.420	94.2	0.144	462		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	150113.188	19860.635	8.640	86.4	0.132	406151		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.9...	147771.969	19938.588	8.811	88.1	0.135	410801		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	152003.078	20723.770	8.903	89.0	0.136	762		1.06
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	142807.422	20557.605	9.401	94.0	0.144	269		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.007	135401.750	19473.371	9.392	93.9	0.144	1098		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.002	123363.789	19923.986	10.547	105.5	0.162	414		1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	115040.492	21642.051	12.285	122.9	0.188	443		1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	104424.445	20151.764	12.602	126.0	0.193	394		0.98

Compound name: d3-NMeFOSAA
Response Factor: 0.153134
RRF SD: 0.0228571, % Relative SD: 14.9263
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

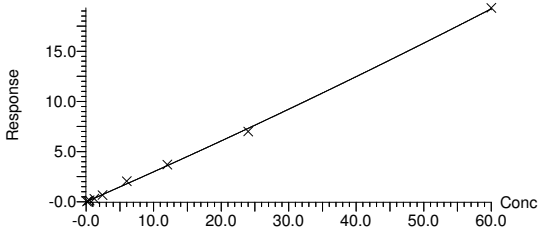
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: br-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.8...	19698.619	55.140	0.095	79.2	0.233	8	2	0.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.8...	19860.635	122.717	0.210	87.4	0.257	10	15	0.33
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.7...	19938.588	275.540	0.469	97.7	0.288	105	25	0.31
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.8...	20723.770	666.091	1.090	90.8	0.268	52	36	0.38
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.8...	20557.605	1381.951	2.275	94.8	0.280	93	185	0.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.8...	19473.371	3997.441	6.900	115.0	0.342	223	175	0.30
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.8...	19923.986	7377.806	12.350	102.9	0.309	192	467	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.8...	21642.051	15136.797	22.976	95.7	0.291	842	756	0.31
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.7...	20151.764	38931.547	60.281	100.5	0.322	1138	2024	0.30

Compound name: br-NMeFOSAA
Coefficient of Determination: R^2 = 0.998045
Calibration curve: 0.000430793 * x^2 + 0.294516 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

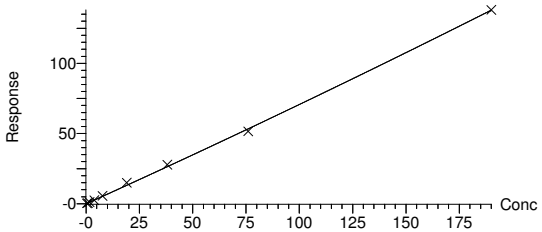
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: L-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	19698.619	628.658	0.465	122.3	0.840	97	17	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	19860.635	1171.538	0.859	113.0	0.776	124	136	1.07
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.9...	19938.588	2476.010	1.807	118.9	0.817	1263	171	0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	20723.770	5293.483	3.715	97.8	0.672	517	225	0.89
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	20557.605	11432.068	8.078	106.3	0.732	958	1020	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.012	19473.371	29356.979	21.810	114.8	0.793	2088	1003	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.007	19923.986	55490.746	40.076	105.5	0.733	1846	2791	1.01
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	21642.051	111712.688	73.545	96.8	0.679	7880	4395	0.93
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	20151.764	278317.000	190.266	100.1	0.727	10259	11104	1.01

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.999430
Calibration curve: 0.000205828 * x^2 + 0.686719 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

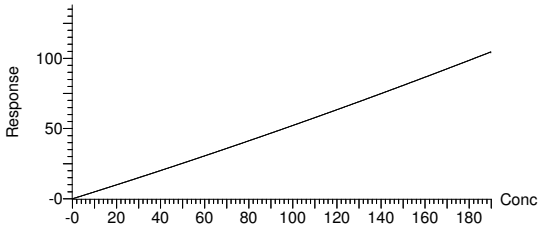
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		19698.619	683.798	0.560					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		19860.635	1294.255	1.068					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		19938.588	2751.550	2.276					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		20723.770	5959.574	4.805					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		20557.605	12814.019	10.353					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		19473.371	33354.420	28.711					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		19923.986	62868.552	52.426					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		21642.051	126849.485	96.521					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		20151.764	317248.547	250.547					

Compound name: NMeFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.490618 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

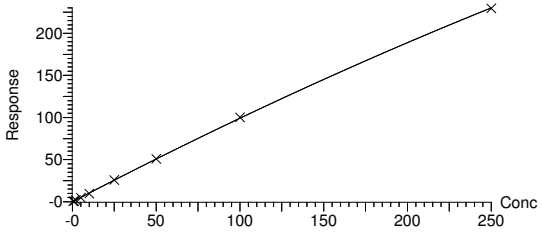
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.162	160545.063	8141.563	0.488	97.6	1.014	162	22336	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.167	170250.172	16321.247	0.923	92.3	0.959	709	47093	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.140	167266.063	34421.027	1.982	99.1	1.029	700	87655	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.153	164943.875	80697.961	4.717	94.3	0.978	1051	1351	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.180	160161.422	156610.328	9.449	94.5	0.978	1851	1066	0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.197	144709.172	374173.469	25.168	100.7	1.034	9988	2121	0.89
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.189	130220.398	664186.000	50.228	100.5	1.020	21133	2372	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.162	117643.695	1178736.250	101.076	101.1	1.002	5800	2082	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.127	102417.656	2352319.000	249.452	99.8	0.919	26175	10415	0.99

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999821
Calibration curve: -0.000475542 * x^2 + 1.03936 * x
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

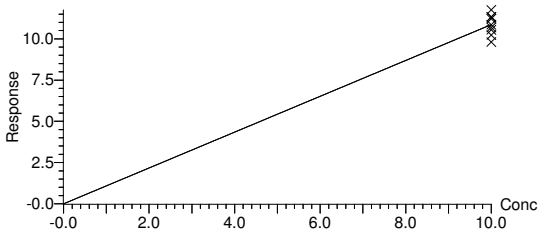
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.162	136559.891	160545.063	10.823	108.2	1.176	5267		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.167	150113.188	170250.172	10.441	104.4	1.134	5307		0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.140	147771.969	167266.063	10.421	104.2	1.132	3706		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.153	152003.078	164943.875	9.990	99.9	1.085	7914		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.180	142807.422	160161.422	10.325	103.2	1.122	3797		0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.193	135401.750	144709.172	9.839	98.4	1.069	3362		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.189	123363.789	130220.398	9.718	97.2	1.056	442		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.162	115040.492	117643.695	9.414	94.1	1.023	3505		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.127	104424.445	102417.656	9.029	90.3	0.981	1493		0.99

Compound name: M7-PFUDA
Response Factor: 1.08623
RRF SD: 0.0612715, % Relative SD: 5.64074
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

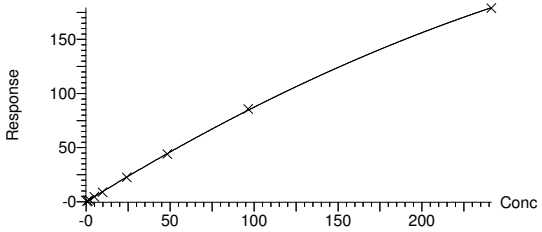
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.172	36314.703	1641.395	0.449	93.0	0.898	28375	13	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.181	40689.613	3528.160	0.861	89.3	0.862	59167	34442	0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.150	38494.648	7406.857	1.914	99.1	0.956	125348	254	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.164	38892.625	18579.631	4.764	98.7	0.949	677	169856	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.190	38605.141	36058.676	9.356	97.0	0.928	612242	649	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.208	38515.820	91225.227	24.066	99.8	0.942	2251	1036	0.85
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.203	35201.945	162254.719	47.956	99.4	0.916	2125	1564	0.87
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.172	31215.975	279389.625	98.044	101.6	0.889	3333	5591	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.142	29595.816	551970.563	240.452	99.7	0.741	13119	5389	0.93

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999856
Calibration curve: -0.000924231 * x^2 + 0.966066 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

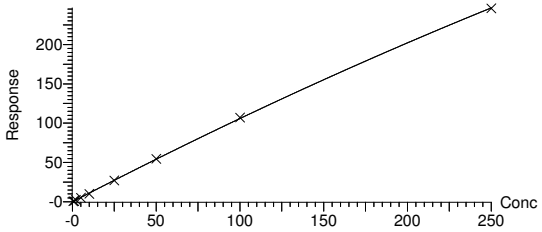
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	93561.508	5576.766	0.538	107.7	1.192	83772	833	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	104505.750	10349.450	0.895	89.5	0.990	817	4	0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.911	104189.609	24175.404	2.097	104.8	1.160	1737	17	1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	101027.609	51913.668	4.649	93.0	1.028	333	42	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	102639.180	104751.703	9.252	92.5	1.021	1735	98	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.9...	98127.992	267875.719	24.919	99.7	1.092	7348	109316	1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.9...	93624.414	512166.094	50.507	101.0	1.094	6879	761	1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	90445.914	969786.688	101.295	101.3	1.072	12369	747	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	89637.250	2205518.750	249.328	99.7	0.984	10756	1143	0.97

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999673
Calibration curve: -0.000484129 * x^2 + 1.10756 * x
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

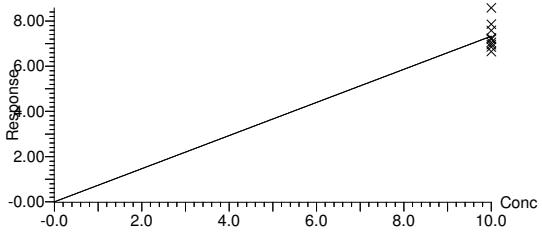
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	136559.891	93561.508	9.346	93.5	0.685	1999		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	150113.188	104505.750	9.496	95.0	0.696	2383		1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.911	147771.969	104189.609	9.618	96.2	0.705	1721		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	152003.078	101027.609	9.066	90.7	0.665	1639		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	142807.422	102639.180	9.804	98.0	0.719	1455		1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.9...	135401.750	98127.992	9.886	98.9	0.725	2330		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.9...	123363.789	93624.414	10.352	103.5	0.759	1604		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	115040.492	90445.914	10.724	107.2	0.786	2033		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.8...	104424.445	89637.250	11.709	117.1	0.858	1749		1.05

Compound name: M8FOSA
Response Factor: 0.733111
RRF SD: 0.0597907, % Relative SD: 8.15575
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

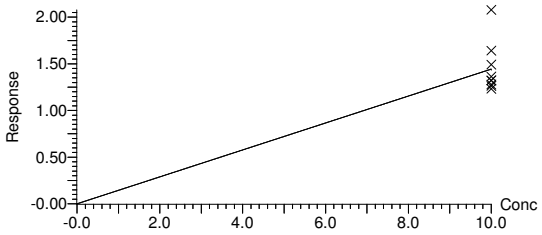
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.270	136559.891	17228.459	8.741	87.4	0.126	326		0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.277	150113.188	19169.049	8.848	88.5	0.128	1346		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.248	147771.969	19544.293	9.164	91.6	0.132	328		0.90
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.262	152003.078	18721.293	8.534	85.3	0.123	256		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.284	142807.422	18895.623	9.168	91.7	0.132	577		1.02
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.299	135401.750	18456.531	9.444	94.4	0.136	347033		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.295	123363.789	18402.270	10.336	103.4	0.149	259		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.270	115040.492	18875.232	11.368	113.7	0.164	358246		1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.237	104424.445	21699.475	14.398	144.0	0.208	390798		0.90

Compound name: d5-NEtFOSAA
Response Factor: 0.144328
RRF SD: 0.0270439, % Relative SD: 18.7378
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

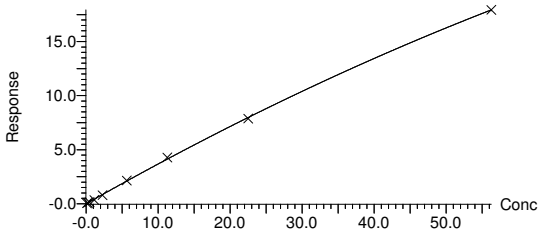
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: br-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.119	17228.459	76.875	0.118	104.7	0.397	3	1	0.25
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.128	19169.049	181.415	0.250	111.1	0.421	11	11	0.28
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.102	19544.293	293.208	0.396	88.1	0.333	28	27	0.31
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.119	18721.293	663.711	0.938	83.4	0.315	44	179	0.33
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.141	18895.623	1520.009	2.136	95.0	0.358	44	237	0.32
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.159	18456.531	3976.891	5.782	102.8	0.383	196	213	0.32
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.155	18402.270	7879.234	11.688	103.9	0.381	642	89	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.128	18875.232	14885.643	22.209	98.7	0.351	737	164	0.30
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.093	21699.475	38916.180	56.269	100.0	0.319	1210	13436	0.29

Compound name: br-NEtFOSAA
Coefficient of Determination: R^2 = 0.999106
Calibration curve: -0.00106791 * x^2 + 0.378812 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

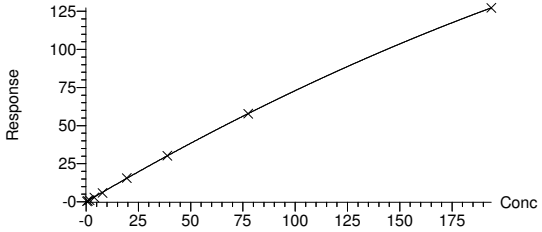
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: L-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.277	17228.459	614.097	0.442	114.0	0.920	49	10	1.05
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.284	19169.049	1090.526	0.705	91.0	0.734	115	116	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.259	19544.293	2254.554	1.431	92.3	0.744	354	242	0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.270	18721.293	5340.047	3.546	91.5	0.736	701	1495	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.295	18895.623	10891.336	7.191	92.8	0.744	567	2293	0.97
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.310	18456.531	28679.654	19.623	101.3	0.802	2699	1786	0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.306	18402.270	55512.680	38.824	100.2	0.778	8050	715	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.281	18875.232	109249.570	77.482	100.0	0.747	9737	1369	0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.248	21699.475	276146.906	193.747	100.0	0.657	15124	106068	0.91

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.999977
Calibration curve: -0.000775645 * x^2 + 0.807112 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

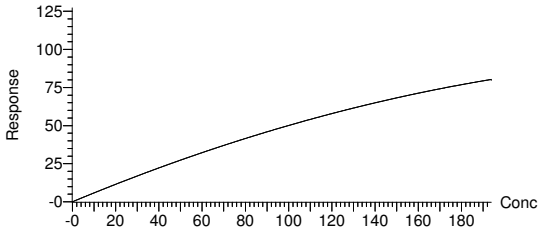
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		17228.459	690.972	0.560					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		19169.049	1271.941	0.955					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		19544.293	2547.762	1.828					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		18721.293	6003.758	4.485					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		18895.623	12411.345	9.328					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		18456.531	32656.545	25.405					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		18402.270	63391.914	50.512					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		18875.232	124135.213	99.691					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		21699.475	315063.086	250.017					

Compound name: NEtFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.592962 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

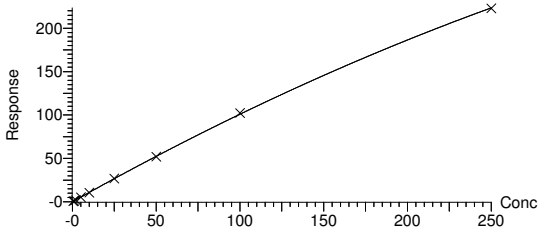
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.653	157363.516	7662.594	0.449	89.7	0.974	109	21	1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.659	184836.938	18403.557	0.917	91.7	0.996	138	49040	1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.633	167036.438	34280.215	1.892	94.6	1.026	1592	91401	1.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.646	167881.391	88923.680	4.894	97.9	1.059	1258	215071	1.25
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.672	176851.766	184428.047	9.669	96.7	1.043	2993	455506	0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.678	172742.422	462666.313	25.108	100.4	1.071	4870	1103455	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.678	161041.922	838181.813	49.672	99.3	1.041	18029	910	0.91
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.660	142443.422	1458225.000	101.569	101.6	1.024	17669	1257	1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.620	135332.828	3016913.750	249.272	99.7	0.892	48206	5808	1.73

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999841
Calibration curve: -0.000769133 * x^2 + 1.08603 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

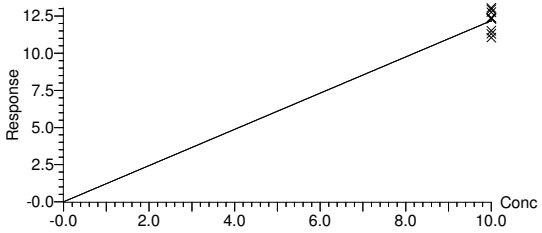
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.653	136559.891	157363.516	9.452	94.5	1.152	7165		1.10
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.666	150113.188	184836.938	10.100	101.0	1.231	2940		0.91
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.633	147771.969	167036.438	9.272	92.7	1.130	3492		1.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.646	152003.078	167881.391	9.059	90.6	1.104	4104		1.26
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.672	142807.422	176851.766	10.158	101.6	1.238	1998		0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.678	135401.750	172742.422	10.465	104.6	1.276	7940		0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.678	123363.789	161041.922	10.708	107.1	1.305	3903		0.90
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.660	115040.492	142443.422	10.156	101.6	1.238	4893		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.620	104424.445	135332.828	10.630	106.3	1.296	1346		1.70

Compound name: MPFDOA
Response Factor: 1.21914
RRF SD: 0.0732588, % Relative SD: 6.00905
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

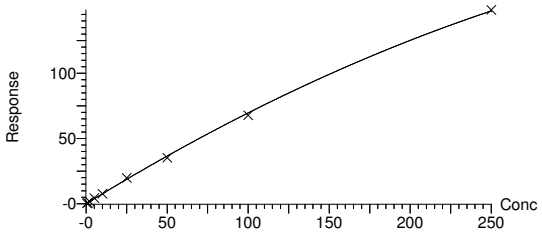
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.0...	151500.610	5617.854	0.484	96.8	0.742	364	9857	1.18
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.0...	174011.688	13229.878	0.993	99.3	0.760	300650	26	0.92
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.0...	162082.586	30450.385	2.458	122.9	0.939	1810	68552	1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.0...	163399.149	70971.984	5.699	114.0	0.869	667	178182	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.1...	169701.110	132185.031	10.263	102.6	0.779	652	304	0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.1...	161631.578	320244.875	26.502	106.0	0.793	2150	2246	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.1...	152923.664	540370.250	48.250	96.5	0.707	2504	264	0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.0...	136659.231	927298.563	97.214	97.2	0.679	2986	570	0.88
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.0...	123630.625	1836066.250	251.963	100.8	0.594	5775	1647	1.01

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998674
Calibration curve: -0.000701589 * x^2 + 0.766196 * x
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

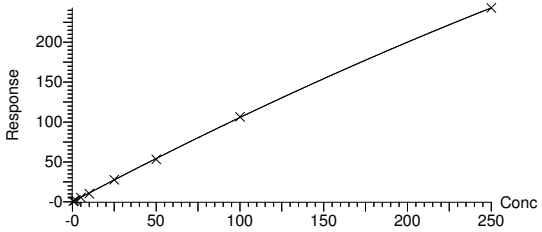
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.4...	145637.703	7775.461	0.480	95.9	1.068	167258	7924	0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.4...	163186.438	17434.182	0.960	96.0	1.068	183	60	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.4...	157128.734	33503.504	1.917	95.8	1.066	698974	17	0.88
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.4...	158916.906	85666.758	4.852	97.0	1.078	1388	98824	0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.4...	162550.453	166204.922	9.225	92.2	1.022	1896	227188	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.4...	150520.734	414829.938	25.066	100.3	1.102	3265	569	0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.4...	144805.406	769350.125	48.923	97.8	1.063	7480	1379	0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.4...	130875.039	1395105.750	100.887	100.9	1.066	1994	1827435	0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.4...	111928.422	2719679.750	249.885	100.0	0.972	16306	1827	0.97

Compound name: PFTA
Coefficient of Determination: R^2 = 0.999945
Calibration curve: -0.000565322 * x^2 + 1.11365 * x
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

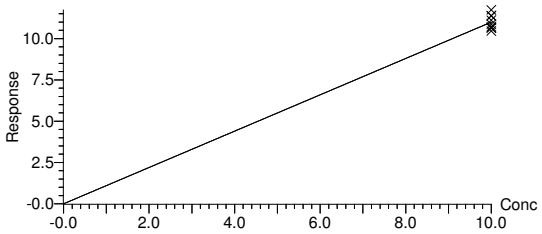
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.4...	136559.891	145637.703	9.700	97.0	1.066	838		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.4...	150113.188	163186.438	9.887	98.9	1.087	4706		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.4...	147771.969	157128.734	9.671	96.7	1.063	4680		0.87
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.4...	152003.078	158916.906	9.509	95.1	1.045	2282		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.4...	142807.422	162550.453	10.352	103.5	1.138	1246		0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.4...	135401.750	150520.734	10.111	101.1	1.112	2831		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.4...	123363.789	144805.406	10.676	106.8	1.174	867		0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.4...	115040.492	130875.039	10.347	103.5	1.138	4183		0.88
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.4...	104424.445	111928.422	9.749	97.5	1.072	850		0.98

Compound name: M2PFTEDA
Response Factor: 1.09951
RRF SD: 0.0431006, % Relative SD: 3.91999
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

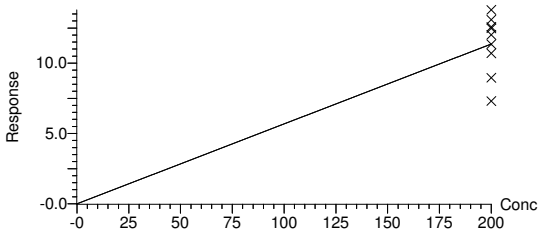
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.390	147122.797	202865.719	242.731	121.4	0.069	9942		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.397	156924.313	197428.594	221.470	110.7	0.063	12164		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.407	155094.984	186442.828	211.614	105.8	0.060	13623		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.394	161129.109	201041.844	219.638	109.8	0.062	20641		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.401	158026.125	206714.469	230.270	115.1	0.065	4320		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.407	149443.000	169614.641	199.795	99.9	0.057	4570		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.407	139965.547	149838.547	188.451	94.2	0.054	35208		1.01
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.404	134914.188	120767.445	157.575	78.8	0.045	9692		1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.356	133475.219	97400.102	128.456	64.2	0.036	4134		0.90

Compound name: M3HFPO-DA
Response Factor: 0.0568073
RRF SD: 0.0104243, % Relative SD: 18.3503
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

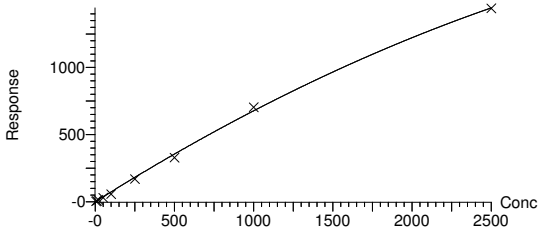
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.394	202865.719	3100.306	4.108	82.2	0.611	222	440	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.397	197428.594	6209.495	8.459	84.6	0.629	170	5	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.407	186442.828	13980.450	20.188	100.9	0.750	647	49	0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.394	201041.844	30653.072	41.126	82.3	0.610	917	7852	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.404	206714.469	59715.582	78.179	78.2	0.578	7787	20883	0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.407	169614.641	143458.906	232.118	92.8	0.677	3413	64788	1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.411	149838.547	246042.438	460.241	92.0	0.657	6654	149454	0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.404	120767.445	424807.188	1042.619	104.3	0.704	10977	1156	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.356	97400.102	701866.063	2492.930	99.7	0.576	55548	7330	0.92

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.998998
Calibration curve: -6.66337e-005 * x^2 + 0.744229 * x
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

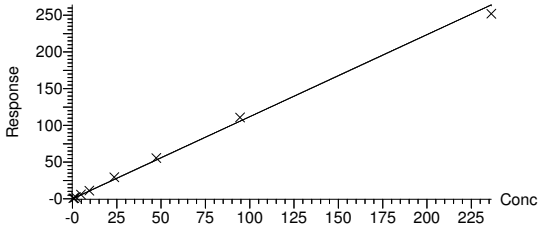
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.402	153514.750	8458.951	0.493	104.3	1.166	555	1392	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.412	165433.297	17303.049	0.935	99.0	1.107	560	3876	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.412	159386.922	37238.879	2.090	110.6	1.236	987	6997	0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.398	155077.953	89303.594	5.151	109.0	1.219	3958	5	0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.402	160522.859	175824.797	9.797	103.7	1.159	10986	40626	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.431	150279.656	442798.188	26.353	111.5	1.247	24943	497	0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.435	145207.219	806835.063	49.697	105.2	1.176	27666	1280	0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.402	134480.000	1490580.625	99.136	104.9	1.173	31266	414	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.347	128925.859	3249911.250	225.457	95.4	1.067	93210	888	0.97

Compound name: ADONA
Coefficient of Determination: R^2 = 0.996901
Calibration curve: 1.11807 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

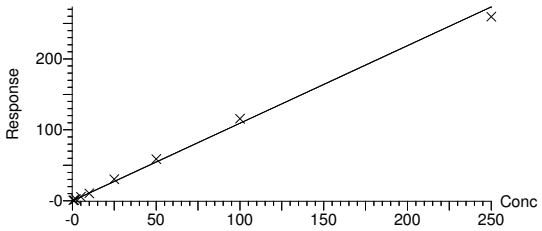
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.8...	245248.094	15072.678	0.562	112.4	1.229	3068	157	0.92
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.8...	249532.422	29058.207	1.065	106.5	1.165	3704	310	0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.8...	243547.672	59521.867	2.235	111.8	1.222	10543	1073	0.88
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.8...	243904.516	140120.000	5.254	105.1	1.149	22742	1189	0.88
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.8...	260391.656	275013.625	9.659	96.6	1.056	39885	6559	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.8...	234321.375	709674.313	27.699	110.8	1.211	163623	6358	0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.8...	215025.078	1263961.500	53.760	107.5	1.176	117587	21253	0.92
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.8...	193275.797	2236173.250	105.814	105.8	1.157	319692	7022	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.8...	171179.391	4444388.500	237.452	95.0	1.039	216829	65891	0.92

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.996192
Calibration curve: 1.09342 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

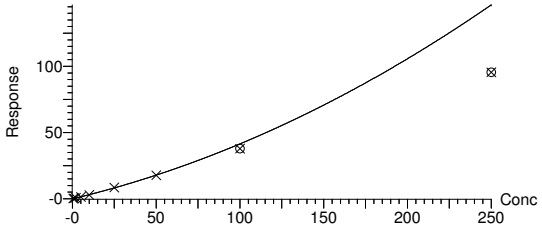
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	13.0...	245248.094	4069.570	0.551	110.1	0.332	671	3	0.85
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	13.0...	249532.422	7831.159	1.040	104.0	0.314	788	1514	0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	13.0...	243547.672	15936.062	2.159	107.9	0.327	1773	3520	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	13.0...	243904.516	37386.809	5.003	100.1	0.307	3934	9668	0.86
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	13.0...	260391.656	74422.164	9.186	91.9	0.286	9550	17002	0.85
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	13.0...	234321.375	199177.766	25.757	103.0	0.340	14031	48451	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	13.0...	215025.078	382661.469	49.793	99.6	0.356	25982	1102	0.86
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	13.0...	193275.797	732095.125	93.121	93.1	0.379	45260	885	0.82
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	13.0...	171179.391	1635632.375	186.292	74.5	0.382	75153	2255	0.97

Compound name: PFODA
Coefficient of Determination: R^2 = 0.998768
Calibration curve: 0.00113928 * x^2 + 0.300671 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

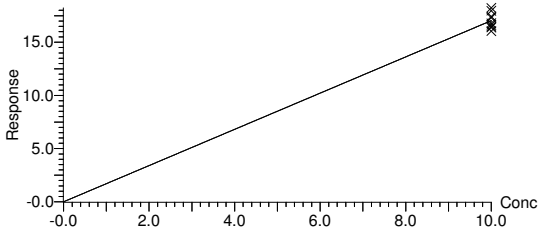
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.8...	136559.891	245248.094	10.545	105.5	1.796	81693		0.88
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.8...	150113.188	249532.422	9.761	97.6	1.662	70902		0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.8...	147771.969	243547.672	9.678	96.8	1.648	79663		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.8...	152003.078	243904.516	9.422	94.2	1.605	138665		0.99
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.8...	142807.422	260391.656	10.707	107.1	1.823	59753		0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.8...	135401.750	234321.375	10.162	101.6	1.731	84285		0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.8...	123363.789	215025.078	10.235	102.3	1.743	117466		0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.8...	115040.492	193275.797	9.865	98.7	1.680	92925		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.8...	104424.445	171179.391	9.626	96.3	1.639	78252		1.01

Compound name: M2PFHxDA
Response Factor: 1.70302
RRF SD: 0.0745148, % Relative SD: 4.37544
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

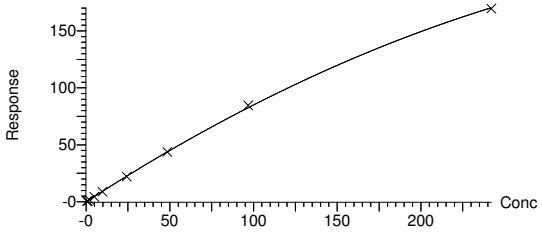
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.0...	36314.703	1586.065	0.440	90.9	0.865	21786	12003	1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.0...	40689.613	2987.514	0.739	76.4	0.727	39308	25039	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.0...	38494.648	6905.263	1.809	93.4	0.889	92465	60963	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.0...	38892.625	17604.316	4.578	94.6	0.897	235289	161652	1.03
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.0...	38605.141	35476.266	9.342	96.5	0.910	463355	429	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.0...	38515.820	88476.922	23.725	98.0	0.910	1154020	1860	1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.0...	35201.945	160580.094	48.441	100.1	0.904	2082128	1338224	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.0...	31215.975	275820.875	99.645	102.9	0.875	1262	1241	1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.0...	29595.816	523204.719	240.250	99.3	0.701	3943	555	1.00

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.999444
Calibration curve: -0.00102929 * x^2 + 0.952947 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

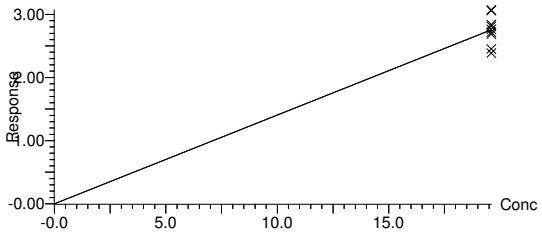
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M2D4-10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.661	34584.156	11027.364	21.784	111.1	0.156	1228		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.673	39610.352	11716.626	20.209	103.1	0.145	206305		0.84
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.641	38066.195	11153.495	20.018	102.1	0.144	210276		1.37
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.654	38934.406	10897.767	19.123	97.6	0.137	192215		1.14
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.679	37682.527	12052.865	21.852	111.5	0.157	213825		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.685	36182.203	10408.367	19.653	100.3	0.141	184018		0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.685	33694.859	9542.466	19.348	98.7	0.139	171205		0.90
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.667	31680.191	8083.735	17.433	88.9	0.125	136579		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.634	29556.729	7346.494	16.981	86.6	0.122	141507		1.32

Compound name: M2D4-10:2FTS
Response Factor: 0.140517
RRF SD: 0.0119524, % Relative SD: 8.50603
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

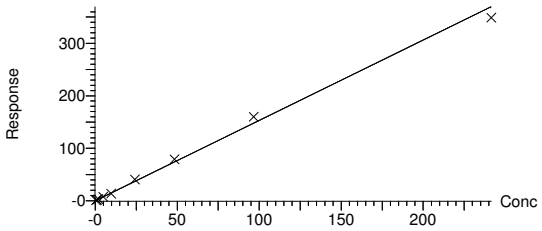
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.666	11027.364	579.173	0.672	139.2	2.131	119	76	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.679	11716.626	1006.036	1.099	113.8	1.742	471	4683	0.88
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.647	11153.495	1752.490	2.011	104.1	1.594	28032	9113	1.32
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.660	10897.767	4243.908	4.985	103.2	1.580	1526	849	1.13
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.685	12052.865	8524.449	9.054	93.7	1.435	1675	41715	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.691	10408.367	21723.727	26.719	110.6	1.694	2630	97267	0.91
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.691	9542.466	38440.852	51.570	106.8	1.635	561254	11691	0.93
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.673	8083.735	65984.641	104.495	108.2	1.656	11916	547	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.640	7346.494	130736.984	227.815	94.3	1.444	4291	2800	1.42

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.994951
Calibration curve: 1.53106 * x
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

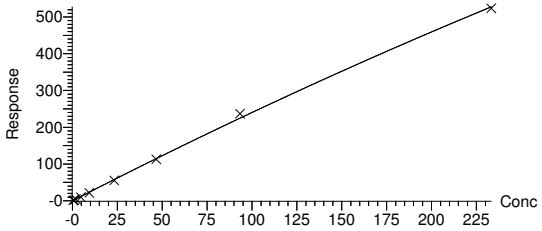
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.3...	36314.703	4058.304	0.427	91.6	2.297	67	32	1.09
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.3...	40689.613	8650.195	0.813	87.2	2.185	106	122	0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.3...	38494.648	17555.332	1.745	93.5	2.344	316	143	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.3...	38892.625	40944.816	4.033	86.5	2.164	589	401	0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.3...	38605.141	87403.328	8.691	93.1	2.327	1336	646	1.05
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.4...	38515.820	223099.422	22.363	95.9	2.382	5384	1360	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.4...	35201.945	414182.063	45.884	98.4	2.419	9254	2812	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.3...	31215.975	771658.063	98.632	105.7	2.541	11462	10167	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.3...	29595.816	1614977.500	231.163	99.1	2.244	28161	9123	0.98

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.998624
Calibration curve: -0.00105427 * x^2 + 2.5075 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

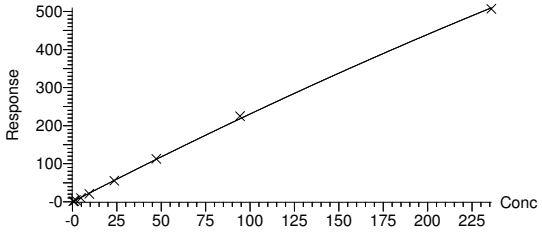
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.440	36314.703	3802.907	0.416	88.3	2.130	825	28286	0.89
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.451	40689.613	8073.729	0.789	83.6	2.018	1934	502	0.88
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.422	38494.648	16966.781	1.752	92.9	2.241	4403	110	0.93
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.436	38892.625	39962.957	4.090	86.7	2.090	6299	878	0.89
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.460	38605.141	84452.055	8.725	92.5	2.225	17196	1707	0.88
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.469	38515.820	221945.125	23.132	98.1	2.344	40603	6403	0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.469	35201.945	414830.906	47.836	101.5	2.397	72983	2239	0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.444	31215.975	731791.313	97.351	103.2	2.384	156951	5508	0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.414	29595.816	1564315.500	234.431	99.4	2.150	277050	2525	0.93

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.999178
Calibration curve: -0.00107336 * x^2 + 2.41384 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

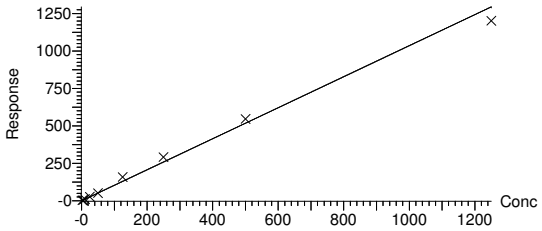
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.562	286111.156	7445.580	2.513	100.5	1.041	163	51	1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.575	303154.063	15671.203	4.992	99.8	1.034	388	275	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.545	298274.344	34775.797	11.258	112.6	1.166	774	150	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.560	297869.031	79494.305	25.770	103.1	1.068	2330	754	1.05
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.585	310000.719	161408.453	50.277	100.6	1.041	1374	3448	1.16
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.592	275379.063	438052.688	153.605	122.9	1.273	3827	2887	1.44
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.592	268328.531	781535.250	281.249	112.5	1.165	8347	9693	1.44
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.570	238589.266	1303163.375	527.421	105.5	1.092	30968	11400	1.07
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.540	216400.609	2600530.750	1160.414	92.8	0.961	9707	28865	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.991243
Calibration curve: 1.0356 * x
Response type: Internal Std (Ref 70), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

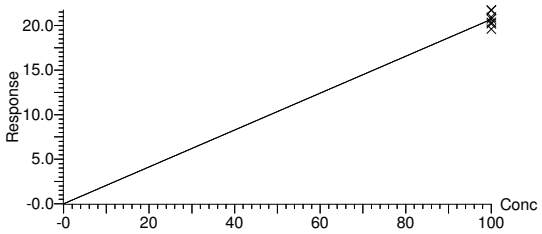
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.555	136559.891	286111.156	101.276	101.3	0.210	4770		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.567	150113.188	303154.063	97.620	97.6	0.202	7980		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.537	147771.969	298274.344	97.570	97.6	0.202	4230		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.552	152003.078	297869.031	94.725	94.7	0.196	4574		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.575	142807.422	310000.719	104.931	104.9	0.217	3921		1.08
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.585	135401.750	275379.063	98.311	98.3	0.203	4949		1.18
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.582	123363.789	268328.531	105.141	105.1	0.218	2935		1.30
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.560	115040.492	238589.266	100.252	100.3	0.207	4449		1.14
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.530	104424.445	216400.609	100.173	100.2	0.207	3305		1.03

Compound name: d3-NMeFOSA
Response Factor: 0.206874
RRF SD: 0.00711822, % Relative SD: 3.44085
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

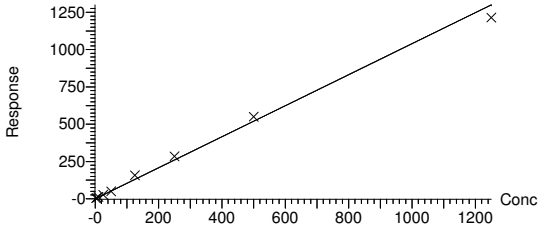
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.874	299483.688	7541.833	2.422	96.9	1.007	95041	5	0.92
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.880	302391.000	17642.271	5.610	112.2	1.167	186	15337	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.856	299626.969	36930.836	11.853	118.5	1.233	472	64081	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.868	301551.250	83397.367	26.595	106.4	1.106	1144	13	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.892	318224.688	160741.094	48.573	97.1	1.010	378	232751	1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.892	266844.375	420811.469	151.647	121.3	1.262	1613	369	1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.899	264624.906	751783.875	273.191	109.3	1.136	1980	4231	0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.880	242516.234	1333932.000	528.929	105.8	1.100	7213	1522	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.856	219804.344	2671328.250	1168.680	93.5	0.972	6703	902	0.99

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.992734
Calibration curve: 1.03991 * x
Response type: Internal Std (Ref 72), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

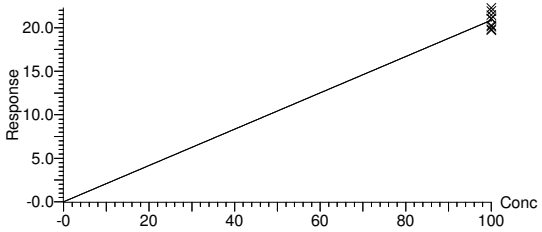
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.862	136559.891	299483.688	105.120	105.1	0.219	1032		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.874	150113.188	302391.000	96.557	96.6	0.201	2565		0.95
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.843	147771.969	299626.969	97.191	97.2	0.203	782		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.856	152003.078	301551.250	95.092	95.1	0.198	2486		1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.880	142807.422	318224.688	106.812	106.8	0.223	3975		1.02
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.886	135401.750	266844.375	94.465	94.5	0.197	1147		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.886	123363.789	264624.906	102.820	102.8	0.215	506		0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.868	115040.492	242516.234	101.048	101.0	0.211	422		0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.843	104424.445	219804.344	100.895	100.9	0.210	1367		0.97

Compound name: d5-NEtFOSA
Response Factor: 0.208624
RRF SD: 0.00924023, % Relative SD: 4.42913
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

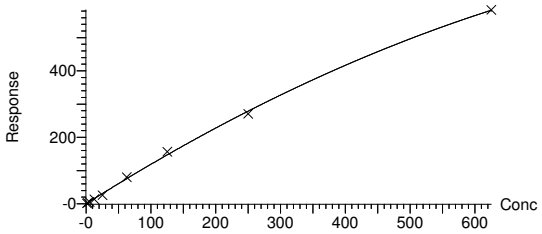
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.565	326049.063	4245.626	1.053	84.2	1.042	267		1.01
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.575	326966.313	8960.188	2.216	88.6	1.096	1033		1.06
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.548	326957.156	18639.906	4.615	92.3	1.140	1442		0.91
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.563	320719.438	45090.141	11.412	91.3	1.125	1757		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.585	348165.844	90551.609	21.193	84.8	1.040	1355		1.24
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.595	303727.563	242965.500	66.379	106.2	1.280	3096		1.45
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.595	284223.656	445118.250	133.600	106.9	1.253	12437		1.44
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.573	265769.000	719150.188	241.753	96.7	1.082	3134		1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.543	235110.547	1371838.500	626.823	100.3	0.934	15739		0.97

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.997801
Calibration curve: -0.000489338 * x^2 + 1.23759 * x
Response type: Internal Std (Ref 74), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

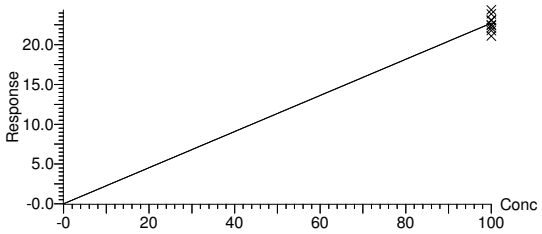
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.548	136559.891	326049.063	105.154	105.2	0.239	36421		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.558	150113.188	326966.313	95.929	95.9	0.218	15907		1.10
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.531	147771.969	326957.156	97.446	97.4	0.221	17759		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.546	152003.078	320719.438	92.926	92.9	0.211	8169		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.568	142807.422	348165.844	107.375	107.4	0.244	10030		1.10
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.575	135401.750	303727.563	98.793	98.8	0.224	5159		1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.575	123363.789	284223.656	101.470	101.5	0.230	6433		1.11
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.553	115040.492	265769.000	101.747	101.7	0.231	6879		1.10
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.521	104424.445	235110.547	99.160	99.2	0.225	2074		1.02

Compound name: d7-NMeFOSE
Response Factor: 0.227056
RRF SD: 0.0102003, % Relative SD: 4.49241
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

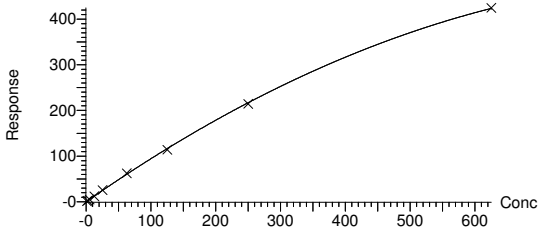
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.856	294944.281	3407.590	1.163	93.0	0.924	27		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.869	348050.469	9909.854	2.868	114.7	1.139	215		1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.844	338220.813	17859.059	5.325	106.5	1.056	793		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.857	353197.063	41807.441	11.977	95.8	0.947	519183		1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.881	320608.875	83082.070	26.416	105.7	1.037	667		1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.881	335078.594	209074.047	64.896	103.8	0.998	2843		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.881	330514.875	376185.375	122.058	97.6	0.911	2487		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.863	313009.406	671790.438	246.931	98.8	0.858	2458		1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.838	317240.219	1346839.125	628.209	100.5	0.679	1946		1.05

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.999483
Calibration curve: -0.000507121 * x^2 + 0.994386 * x
Response type: Internal Std (Ref 76), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

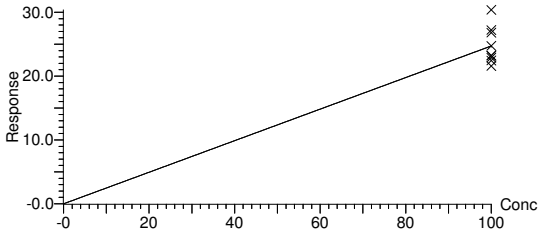
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.839	136559.891	294944.281	87.369	87.4	0.216	1711		0.99
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.851	150113.188	348050.469	93.791	93.8	0.232	4267		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.826	147771.969	338220.813	92.587	92.6	0.229	1505		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.839	152003.078	353197.063	93.995	94.0	0.232	7608		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.863	142807.422	320608.875	90.816	90.8	0.225	3107		0.97
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.863	135401.750	335078.594	100.106	100.1	0.247	9198		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.863	123363.789	330514.875	108.378	108.4	0.268	3766		1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.845	115040.492	313009.406	110.064	110.1	0.272	882		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.820	104424.445	317240.219	122.893	122.9	0.304	6949		0.98

Compound name: d9-NEtFOSE
Response Factor: 0.247207
RRF SD: 0.0285765, % Relative SD: 11.5597
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

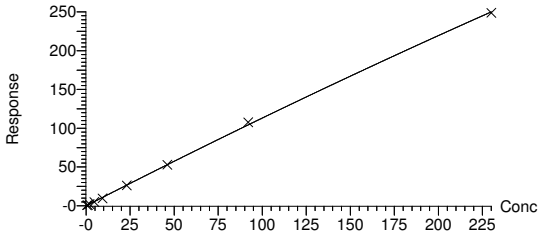
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFPrS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	3.606	30914.898	1572.824	0.407	88.5	1.031	1266	118	0.69
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	3.606	33730.434	3436.467	0.815	88.6	1.032	640	950	0.74
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	3.609	32362.510	7148.822	1.767	96.1	1.119	37717	546	0.71
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	3.606	32735.057	17203.275	4.208	91.5	1.065	14318	1707	0.69
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	3.606	33695.297	34960.637	8.318	90.4	1.051	31984	12320	0.68
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	3.602	32123.402	90440.680	22.665	98.5	1.141	18490	20245	0.75
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	3.606	30360.742	172344.672	46.014	100.0	1.150	60586	16967	0.67
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	3.604	28440.494	328732.344	95.071	103.3	1.171	74713	48212	0.67
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	3.604	28074.352	749477.125	228.745	99.5	1.082	358123	64765	0.61

Compound name: PFPrS
Coefficient of Determination: R^2 = 0.999326
Calibration curve: -0.00033968 * x^2 + 1.16541 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

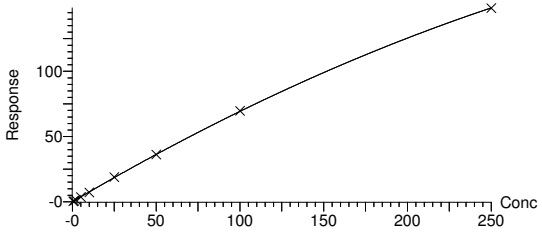
Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFMPA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	3.598	83131.773	3031.125	0.481	96.1	0.729	2425		0.80
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	3.598	90745.328	6533.354	0.950	95.0	0.720	2269		0.83
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	3.598	87759.445	13633.266	2.051	102.5	0.777	33910		0.82
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	3.595	88564.953	32118.834	4.799	96.0	0.725	72752		0.81
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	3.595	89276.781	64489.867	9.599	96.0	0.722	6972		0.80
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	3.593	88029.617	166289.875	25.455	101.8	0.756	84903		0.85
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	3.595	85246.242	309022.938	49.931	99.9	0.725	103180		0.79
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	3.593	82833.945	576750.000	100.506	100.5	0.696	296456		0.79
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	3.591	89480.016	1328709.375	249.685	99.9	0.594	112577		0.74

Compound name: PFMPA
Coefficient of Determination: R^2 = 0.999877
Calibration curve: -0.00065726 * x^2 + 0.758827 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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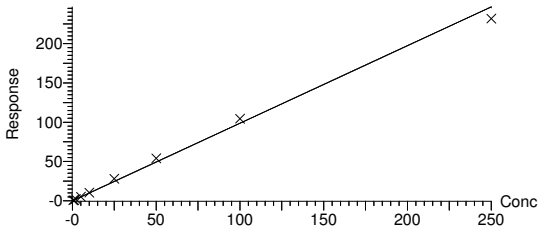
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFMBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.820	89670.125	4841.859	0.547	109.4	1.080	612		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.820	95897.688	9974.705	1.053	105.3	1.040	1382		0.91
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.824	94071.445	20906.674	2.251	112.5	1.111	2247		0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.828	93058.852	48877.242	5.320	106.4	1.050	4589		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.824	95876.742	98753.211	10.432	104.3	1.030	14163		0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.828	91930.250	257080.141	28.323	113.3	1.119	29599		0.91
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.828	87845.992	475429.406	54.815	109.6	1.082	27711		0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.824	84811.805	886080.750	105.816	105.8	1.045	84164		0.91
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.812	86346.578	2002964.625	234.943	94.0	0.928	190932		0.92

Compound name: PFMBA
Coefficient of Determination: R^2 = 0.994718
Calibration curve: 0.987338 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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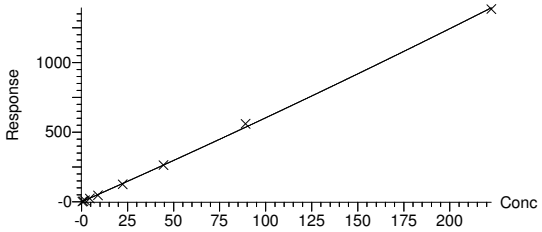
Compound name: PFEESA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.478	30344.182	7849.370	0.419	94.1	5.511	5289	6161	0.93
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.483	34840.234	16468.820	0.765	86.0	5.035	1930	15372	0.95
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.495	33197.438	34211.285	1.668	93.7	5.488	6806	140	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.491	33300.699	82224.531	3.994	89.7	5.260	5170	285	0.94
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.487	34096.219	165273.000	7.831	88.0	5.163	33469	645	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.487	32890.145	435425.063	21.298	95.7	5.641	16876	5560	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.491	29299.664	815789.750	44.469	99.9	5.931	97273	6772	0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.491	25713.482	1522440.000	93.154	104.7	6.307	109809	4785	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.470	24097.566	3518998.000	221.096	99.4	6.222	82594	24321	0.92

Compound name: PFEESA
Coefficient of Determination: R^2 = 0.998866
Calibration curve: 0.00184482 * x^2 + 5.85355 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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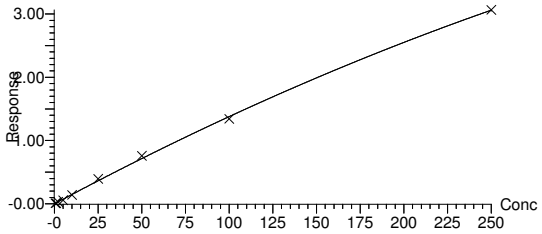
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NFDHA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.747	129630.148	75.634	0.394	78.8	0.012	8		1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.751	138426.297	158.537	0.774	77.4	0.011	2223		1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.759	135277.344	415.065	2.075	103.7	0.015	138		1.17
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.755	134110.688	747.415	3.773	75.5	0.011	839	23	1.06
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.759	139504.719	1962.077	9.560	95.6	0.014	27849	3	0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.755	131542.578	5187.841	27.140	108.6	0.016	3	967	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.759	126140.586	9565.171	53.161	106.3	0.015	1209	20	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.759	119056.797	15968.914	97.106	97.1	0.013	1259	9	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.731	115416.570	35377.512	250.492	100.2	0.012	1762	25	1.13

Compound name: NFDHA
Coefficient of Determination: R^2 = 0.997573
Calibration curve: -1.02738e-005 * x^2 + 0.0148102 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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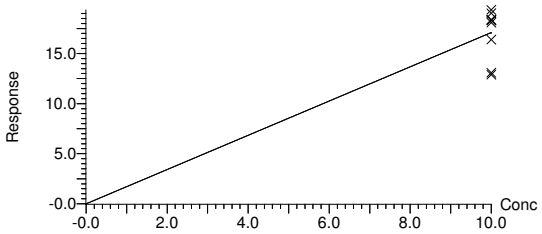
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M3PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.119	71397.852	93371.922	7.649	76.5	1.308	23444		0.93
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.116	79027.422	150368.219	11.129	111.3	1.903	26710		0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.119	77088.703	149240.484	11.323	113.2	1.936	22164		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.124	81076.422	148444.828	10.709	107.1	1.831	13456		0.93
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.119	77371.656	99717.336	7.538	75.4	1.289	18816		0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.121	76834.391	141232.125	10.751	107.5	1.838	57645		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.124	74245.555	136351.313	10.741	107.4	1.836	16458		0.93
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	74050.750	133876.641	10.574	105.7	1.808	22748		0.95
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.114	79147.242	129702.203	9.585	95.8	1.639	27930		0.90

Compound name: M3PFPeA
Response Factor: 1.70972
RRF SD: 0.247259, % Relative SD: 14.462
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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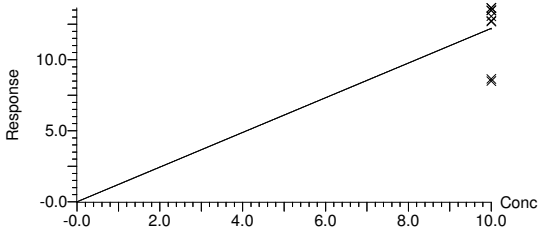
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M2PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.970	147122.797	127163.461	7.080	70.8	0.864	18414		0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.974	156924.313	214078.047	11.175	111.8	1.364	12649		0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.987	155094.984	208887.625	11.033	110.3	1.347	26762		0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.979	161129.109	204318.781	10.388	103.9	1.268	11358		0.99
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.983	158026.125	134384.516	6.966	69.7	0.850	5525		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.978	149443.000	195142.391	10.697	107.0	1.306	14419		1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.983	139965.547	188673.172	11.043	110.4	1.348	9005		0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.983	134914.188	184153.609	11.182	111.8	1.365	15856		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.952	133475.219	170041.969	10.436	104.4	1.274	4577		0.96

Compound name: M2PFHxA
Response Factor: 1.22073
RRF SD: 0.209155, % Relative SD: 17.1336
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2411331
Project Name	:	PARKCHESTER CROSSING	Project Number	:	2530.0001Y000
Instrument ID	:	LCMS01	Ical Ref	:	ICAL20849
Calibration dates	:	02/10/24 16:13 02/10/24 18:26			

Alpha Analytical Inc.
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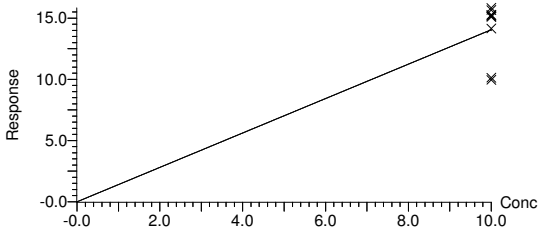
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M4PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	147122.797	148992.734	7.205	72.1	1.013	10364		0.99
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185	156924.313	248589.047	11.271	112.7	1.584	30235		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181	155094.984	242983.328	11.147	111.5	1.567	10619		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	161129.109	245340.047	10.834	108.3	1.523	19656		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	158026.125	157485.359	7.091	70.9	0.997	11621		0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219	149443.000	226394.859	10.779	107.8	1.515	12228		0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	139965.547	213725.719	10.865	108.6	1.527	8626		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134914.188	203611.891	10.738	107.4	1.509	7054		0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	133475.219	188932.172	10.071	100.7	1.415	18510		0.93

Compound name: M4PFOA
Response Factor: 1.40548
RRF SD: 0.232027, % Relative SD: 16.5088
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Alpha Analytical Inc.
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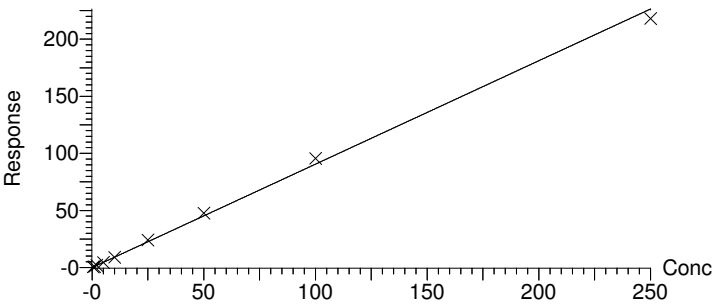
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240210_RT.mdb 11 Feb 2024 12:21:23
Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.236	83131.773	3719.511	0.494	98.8	0.895	1459		1.34
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.239	90745.328	7888.571	0.960	96.0	0.869	300		1.40
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.236	87759.445	16719.930	2.103	105.2	0.953	13890		1.39
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.236	88564.953	39917.418	4.976	99.5	0.901	8468		1.37
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.236	89276.781	79791.836	9.867	98.7	0.894	50565		1.34
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.239	88029.617	211703.125	26.551	106.2	0.962	74677		1.41
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.236	85246.242	405084.469	52.462	104.9	0.950	298727		1.33
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.236	82833.945	791497.500	105.491	105.5	0.956	498323		1.33
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.233	89480.016	1950019.875	240.596	96.2	0.872	793970		1.21

Compound name: PFBA
Coefficient of Determination: R^2 = 0.997916
Calibration curve: 0.905784 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



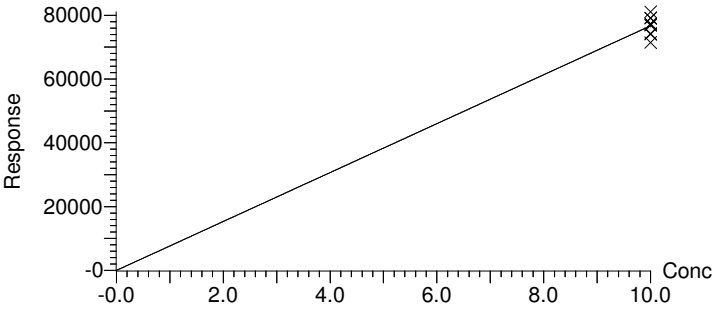
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.237		71397.852	9.310	93.1	7139.785	94789		1.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.237		79027.422	10.304	103.0	7902.742	246551		1.40
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.237		77088.703	10.052	100.5	7708.870	224738		1.37
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.237		81076.422	10.572	105.7	8107.642	4244		1.36
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.237		77371.656	10.088	100.9	7737.166	87347		1.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.237		76834.391	10.018	100.2	7683.439	25655		1.41
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.237		74245.555	9.681	96.8	7424.556	60074		1.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.234		74050.750	9.655	96.6	7405.075	32442		1.32
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.234		79147.242	10.320	103.2	7914.724	46554		1.20

Compound name: M3PFBA
Response Factor: 7669.33
RRF SD: 300.696, % Relative SD: 3.92076
Response type: External Std, Area
Curve type: RF



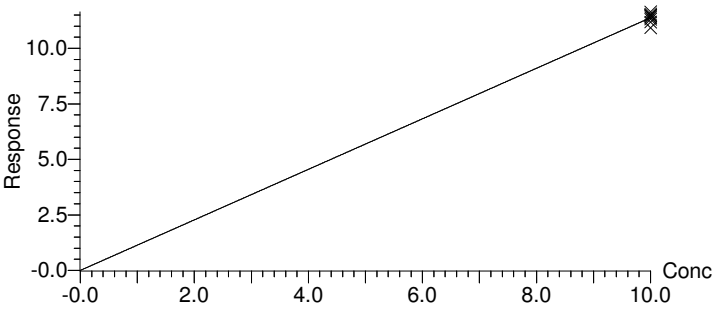
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	2.238	71397.852	83131.773	10.233	102.3	1.164	162350		1.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	2.238	79027.422	90745.328	10.092	100.9	1.148	113952		1.39
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	2.238	77088.703	87759.445	10.005	100.1	1.138	125673		1.36
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	2.238	81076.422	88564.953	9.601	96.0	1.092	2098		1.35
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	2.235	77371.656	89276.781	10.141	101.4	1.154	17306		1.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	2.238	76834.391	88029.617	10.069	100.7	1.146	63510		1.39
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	2.238	74245.555	85246.242	10.091	100.9	1.148	32170		1.30
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	2.235	74050.750	82833.945	9.831	98.3	1.119	20704		1.31
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	2.233	79147.242	89480.016	9.936	99.4	1.131	19991		1.20

Compound name: MPFBA
Response Factor: 1.13781
RRF SD: 0.0215877, % Relative SD: 1.8973
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



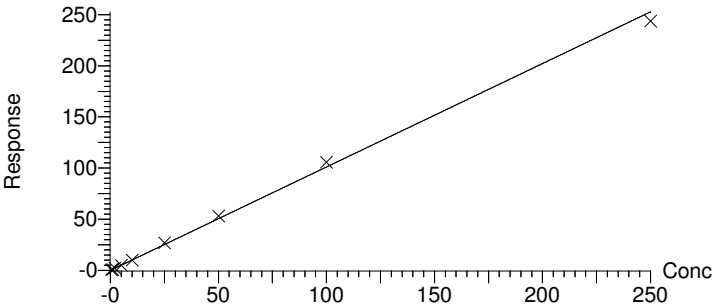
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.119	89670.125	4493.754	0.496	99.1	1.002	5795		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.119	95897.688	9531.821	0.983	98.3	0.994	20436		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.119	94071.445	19611.467	2.062	103.1	1.042	8522		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.123	93058.852	47001.410	4.996	99.9	1.010	29812		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.119	95876.742	95345.969	9.837	98.4	0.994	18305		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.121	91930.250	246986.078	26.577	106.3	1.075	70139		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.123	87845.992	468278.375	52.731	105.5	1.066	223146		0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	84811.805	897315.375	104.658	104.7	1.058	136604		0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.111	86346.578	2105057.000	241.159	96.5	0.975	610085		0.98

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.998148
Calibration curve: 1.01092 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



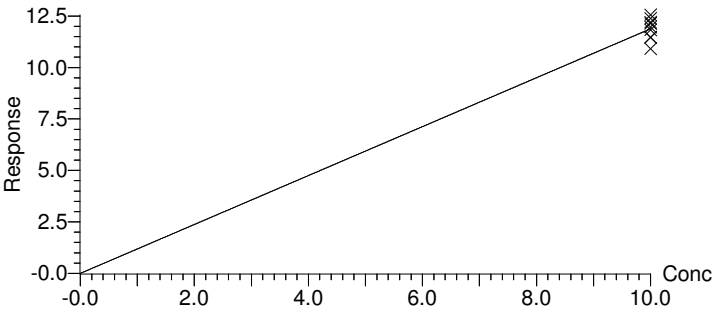
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.117	71397.852	89670.125	10.571	105.7	1.256	7740		0.97
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.117	79027.422	95897.688	10.214	102.1	1.213	25373		0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.117	77088.703	94071.445	10.271	102.7	1.220	14109		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.122	81076.422	93058.852	9.661	96.6	1.148	10868		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.117	77371.656	95876.742	10.430	104.3	1.239	24432		0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.119	76834.391	91930.250	10.071	100.7	1.196	13264		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.122	74245.555	87845.992	9.959	99.6	1.183	16742		0.97
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	74050.750	84811.805	9.640	96.4	1.145	8935		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.109	79147.242	86346.578	9.183	91.8	1.091	11989		0.97

Compound name: M5PFPEA
Response Factor: 1.18807
RRF SD: 0.05229, % Relative SD: 4.40127
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



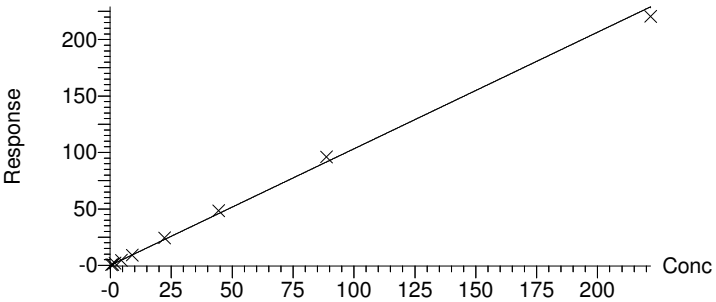
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.748	30914.898	1534.819	0.448	101.0	1.043	17211	209	1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.747	33730.434	3130.995	0.838	94.5	0.975	34749	213	1.09
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.751	32362.510	6638.477	1.851	104.4	1.078	1363	614	1.11
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.759	32735.057	15999.138	4.411	99.5	1.027	2934	1254	1.05
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.755	33695.297	32607.729	8.734	98.5	1.017	7654	4204	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.755	32123.402	84016.969	23.606	106.5	1.099	8277	4623	1.09
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.755	30360.742	157945.219	46.953	105.9	1.093	20431	4359	1.05
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.751	28440.494	293480.000	93.135	105.0	1.084	46509	12930	1.06
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.741	28074.352	663820.375	213.408	96.2	0.994	78720	55975	1.00

Compound name: PFBS
Coefficient of Determination: R^2 = 0.997897
Calibration curve: 1.03263 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



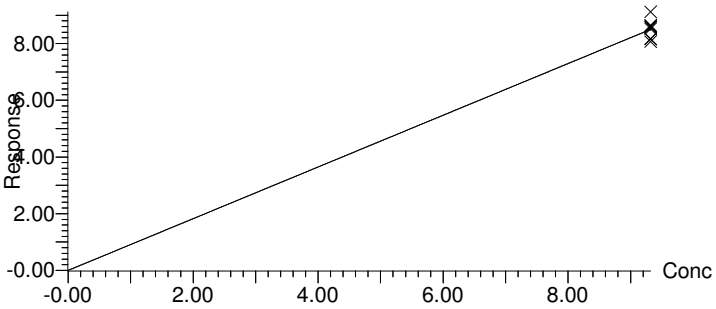
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.748	34584.156	30914.898	9.411	101.0	0.921	11192		1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.748	39610.352	33730.434	8.965	96.2	0.877	5314		1.07
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.751	38066.195	32362.510	8.951	96.0	0.876	7906		1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.759	38934.406	32735.057	8.852	95.0	0.866	23044		1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.751	37682.527	33695.297	9.414	101.0	0.921	23228		1.07
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.755	36182.203	32123.402	9.347	100.3	0.914	4802		1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.755	33694.859	30360.742	9.487	101.8	0.928	12046		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.751	31680.191	28440.494	9.452	101.4	0.925	7309		1.05
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.738	29556.729	28074.352	10.000	107.3	0.978	1404		1.02

Compound name: M3PFBS
Response Factor: 0.911822
RRF SD: 0.0347096, % Relative SD: 3.80662
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



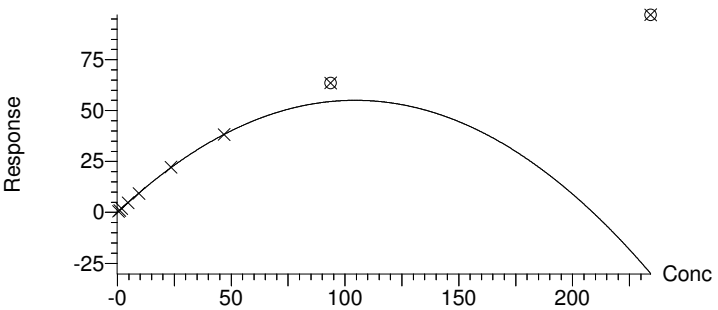
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.887	8501.737	441.584	0.463	98.9	1.040	325	22	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.891	9383.875	972.026	0.926	98.8	1.037	17976	52	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.905	9189.729	1897.794	1.854	99.0	1.034	345	21	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.900	9310.419	4795.047	4.689	100.1	1.031	86730	120	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.900	9443.604	9370.043	9.239	98.6	0.993	3643	354	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.900	10220.045	24175.262	23.752	101.4	0.947	632	2899	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.900	11501.580	46837.344	46.665	99.6	0.815	4750	1259	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.900	13625.749	92316.219			0.678	12212	7570	1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.870	22166.438	229293.922			0.414	14795	62787	1.00

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.999907
Calibration curve: -0.00504495 * x^2 + 1.05397 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



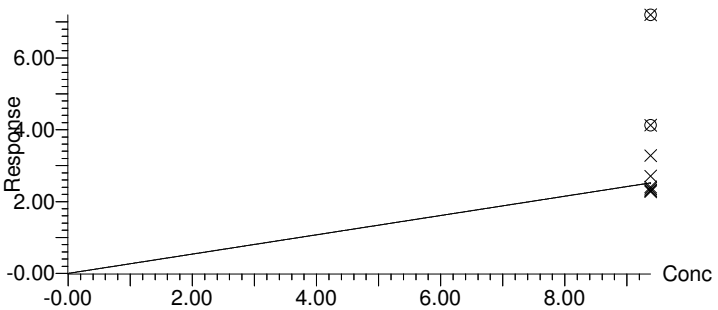
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.883	34584.156	8501.737	8.783	93.6	0.252	154469		1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.892	39610.352	9383.875	8.465	90.2	0.242	269		0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.905	38066.195	9189.729	8.626	92.0	0.247	1496		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.900	38934.406	9310.419	8.544	91.1	0.245	167967		0.93
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.900	37682.527	9443.604	8.954	95.5	0.256	167098		0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.896	36182.203	10220.045	10.092	107.6	0.289	1115		1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.900	33694.859	11501.580	12.196	130.0	0.349	508		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.905	31680.191	13625.749	15.367	163.8	0.440	2278		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.871	29556.729	22166.438	26.796	285.7	0.768	5581		1.00

Compound name: M2-4:2FTS
Response Factor: 0.268685
RRF SD: 0.0389276, % Relative SD: 14.4882
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



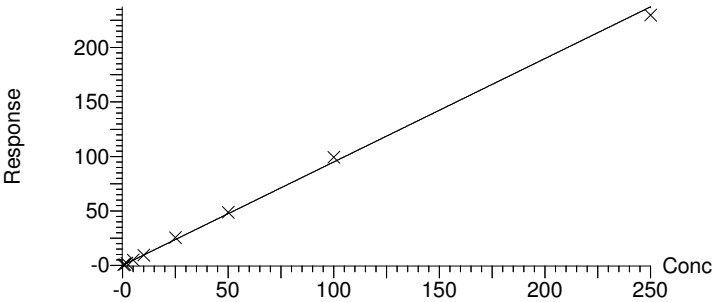
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.970	129630.148	6196.151	0.503	100.7	0.956	318	52	0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.974	138426.297	13448.761	1.023	102.3	0.972	1205	127	0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.987	135277.344	27852.594	2.168	108.4	1.029	1988	166	0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.978	134110.688	65473.094	5.141	102.8	0.976	5603	543	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.983	139504.719	131343.125	9.914	99.1	0.941	6479	1406	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.983	131542.578	335222.594	26.835	107.3	1.019	21134	4307	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.983	126140.586	615598.438	51.391	102.8	0.976	31105	5571	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.983	119056.797	1183032.125	104.637	104.6	0.994	55522	10341	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.952	115416.570	2651185.500	241.888	96.8	0.919	145894	19439	0.98

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.998410
Calibration curve: 0.949639 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



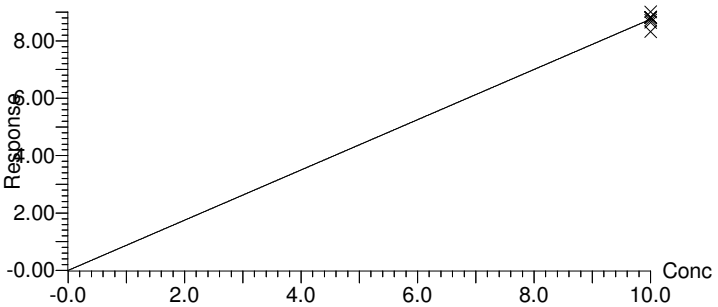
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.966	147122.797	129630.148	10.064	100.6	0.881	8302		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.970	156924.313	138426.297	10.076	100.8	0.882	16670		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.984	155094.984	135277.344	9.963	99.6	0.872	16746		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.979	161129.109	134110.688	9.507	95.1	0.832	14287		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.979	158026.125	139504.719	10.084	100.8	0.883	6055		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.979	149443.000	131542.578	10.054	100.5	0.880	15843		1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.984	139965.547	126140.586	10.294	102.9	0.901	7828		0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.984	134914.188	119056.797	10.080	100.8	0.882	2012569		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.953	133475.219	115416.570	9.877	98.8	0.865	9744		0.95

Compound name: M5PFHxA
Response Factor: 0.875463
RRF SD: 0.0188844, % Relative SD: 2.15708
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



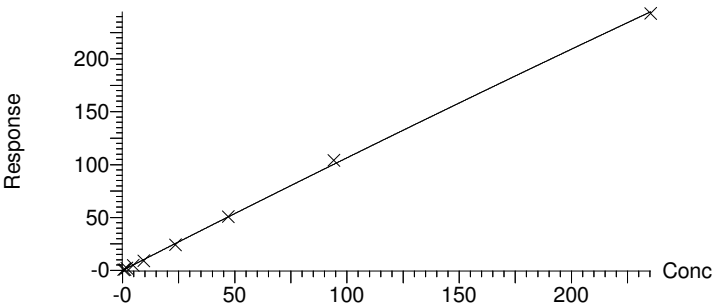
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.276	30344.182	1579.784	0.455	96.8	1.049	89	19657	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.284	34840.234	3299.471	0.829	88.0	0.954	365	39338	0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.293	33197.438	6916.627	1.823	96.9	1.049	131072	90583	0.90
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.284	33300.699	16863.186	4.433	94.2	1.020	808	1198	0.86
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.288	34096.219	32922.453	8.459	89.9	0.973	2007	2015	0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.293	32890.145	83849.109	22.387	95.2	1.027	18138	4936	0.87
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.297	29299.664	157482.328	47.406	100.8	1.083	30549	9146	0.85
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.293	25713.482	282368.781	97.716	103.8	1.106	25626	19654	0.87
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.248	24097.566	617975.438	233.822	99.4	1.033	19734	29687	0.98

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999148
Calibration curve: -0.000188313 * x^2 + 1.08376 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



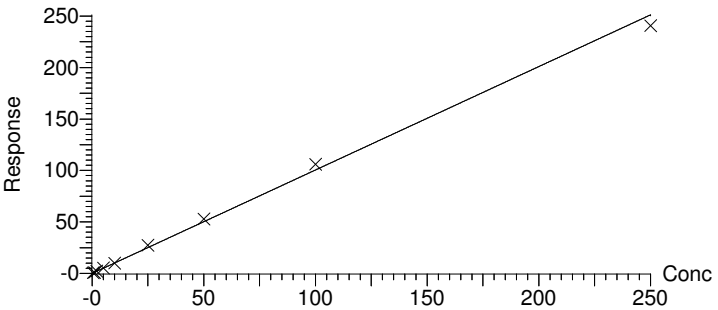
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.228	140188.172	7096.492	0.504	100.8	1.012	383	228	1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.237	150213.031	15251.950	1.010	101.0	1.015	957	309	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.237	145659.703	31596.297	2.159	107.9	1.085	1195	1147	0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.224	146303.922	75242.203	5.118	102.4	1.029	6175	855	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.233	148422.125	148033.406	9.926	99.3	0.997	11653	2472	0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.255	139448.828	380868.594	27.181	108.7	1.092	25508	9683	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.260	133829.438	706773.813	52.558	105.1	1.056	13440	10006	0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.233	122576.172	1299014.250	105.467	105.5	1.060	56211	7298	0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.174	118674.273	2856888.750	239.577	95.8	0.963	182301	26077	0.98

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.997465
Calibration curve: 1.00483 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



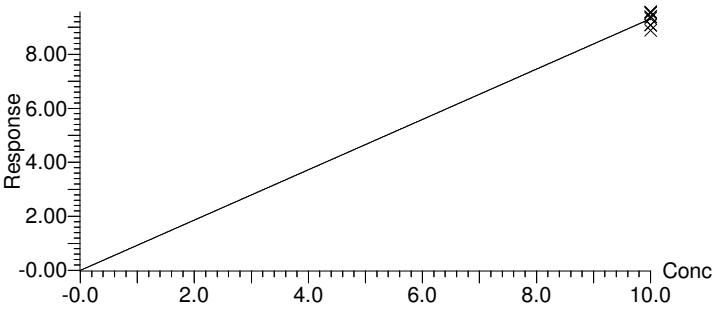
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.228	147122.797	140188.172	10.229	102.3	0.953	5242		0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.237	156924.313	150213.031	10.276	102.8	0.957	8952		0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.233	155094.984	145659.703	10.082	100.8	0.939	12646		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.224	161129.109	146303.922	9.748	97.5	0.908	9790		0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.233	158026.125	148422.125	10.083	100.8	0.939	5548		0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.251	149443.000	139448.828	10.018	100.2	0.933	13640		1.04
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.255	139965.547	133829.438	10.265	102.6	0.956	8953		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.233	134914.188	122576.172	9.754	97.5	0.909	7225		0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.174	133475.219	118674.273	9.545	95.5	0.889	13346		0.96

Compound name: M4PFHpA
Response Factor: 0.931491
RRF SD: 0.0243002, % Relative SD: 2.60874
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



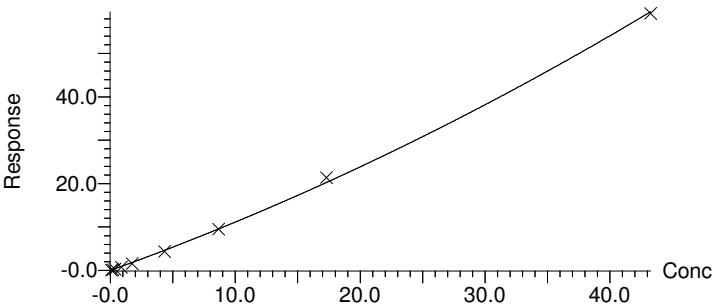
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.151	30344.182	235.791	0.071	82.3	0.852	54	14	0.44
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.161	34840.234	585.823	0.154	89.0	0.921	78	75	0.43
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.161	33197.438	1110.551	0.306	88.4	0.917	276	155	0.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.146	33300.699	2697.421	0.738	85.3	0.888	296	212	0.44
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.156	34096.219	5683.451	1.510	87.3	0.913	777	546	0.44
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.179	32890.145	15171.216	4.098	94.7	1.011	2541	1055	0.42
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.179	29299.664	29497.271	8.650	100.0	1.103	2822	2338	0.45
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.161	25713.482	57968.711	18.132	104.8	1.235	8049	4325	0.43
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.099	24097.566	150518.828	43.017	99.5	1.369	13405	8396	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.998766
Calibration curve: 0.00794896 * x^2 + 1.03458 * x
Response type: Internal Std (Ref 18), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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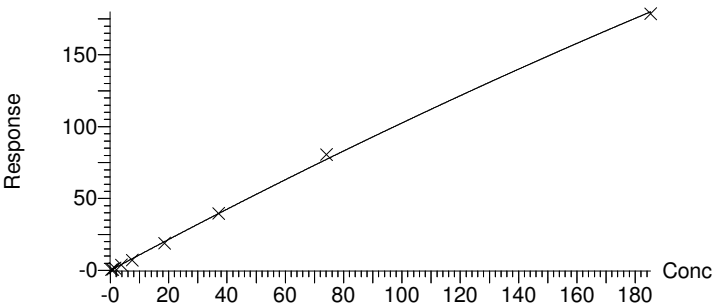
Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.384	30344.182	1181.703	0.339	91.4	0.996	438	174	1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.394	34840.234	2574.682	0.643	86.8	0.945	539	822	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.389	33197.438	5572.811	1.461	98.6	1.074	2190	1537	1.06
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.379	33300.699	13165.665	3.445	93.0	1.012	2553	2093	0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.384	34096.219	25660.598	6.570	88.7	0.963	5981	5639	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.413	32890.145	66046.602	17.645	95.3	1.028	18222	9814	0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.417	29299.664	122426.898	37.148	100.3	1.069	19178	19621	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.384	25713.482	218935.922	77.584	104.7	1.089	50431	32780	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.325	24097.566	454141.531	183.765	99.2	0.964	61654	49192	1.04

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998843
Calibration curve: -0.000641881 * x^2 + 1.09018 * x
Response type: Internal Std (Ref 18), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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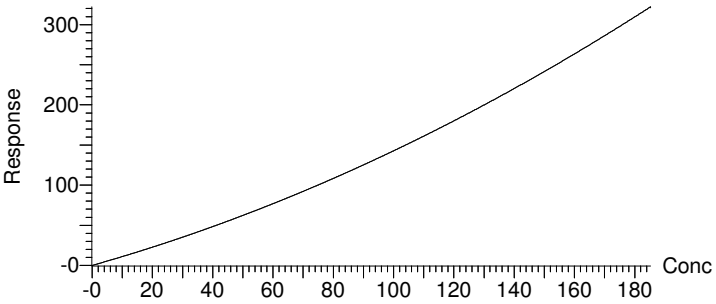
Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		30344.182	1417.494	0.410					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		34840.234	3160.505	0.797					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		33197.438	6683.362	1.767					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		33300.699	15863.086	4.183					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		34096.219	31344.049	8.080					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		32890.145	81217.818	21.743					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		29299.664	151924.169	45.798					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		25713.482	276904.633	95.716					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		24097.566	604660.359	226.782					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.06238 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



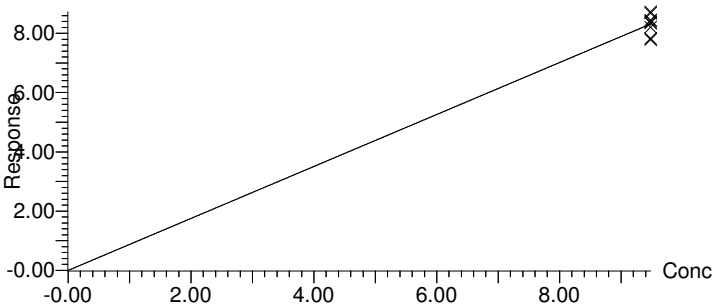
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.384	34584.156	30344.182	9.604	101.3	0.889	3397		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.394	39610.352	34840.234	9.628	101.6	0.891	2333		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.389	38066.195	33197.438	9.546	100.7	0.883	10011		1.04
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.380	38934.406	33300.699	9.362	98.8	0.866	4306		0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.384	37682.527	34096.219	9.904	104.5	0.916	685219		1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.413	36182.203	32890.145	9.950	105.0	0.921	4626		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.417	33694.859	29299.664	9.518	100.4	0.881	1490		0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.384	31680.191	25713.482	8.884	93.7	0.822	1215		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.325	29556.729	24097.566	8.924	94.1	0.826	4732		1.00

Compound name: M3PFHxS
Response Factor: 0.877045
RRF SD: 0.0346382, % Relative SD: 3.94943
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



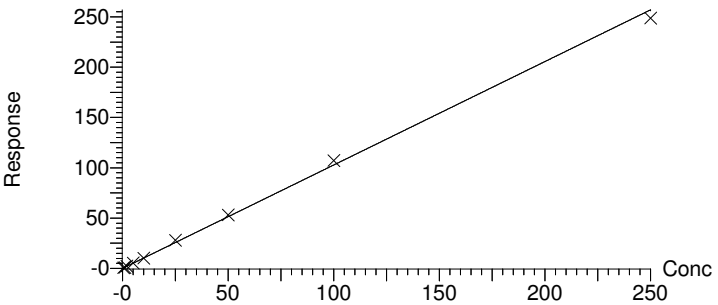
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		153514.750							
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		165433.297							
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		159386.922							
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		155077.953							
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		160522.859							
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		150279.656							
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		145207.219							
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		134480.000							
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		128925.859							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998393
Calibration curve: 1.02813 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



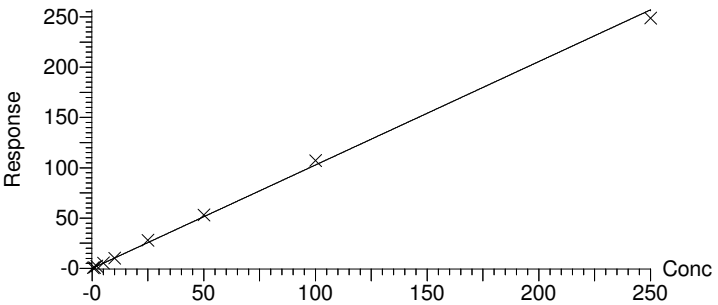
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	153514.750	8307.467	0.526	105.3	1.082	329	16938	0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.184	165433.297	16352.763	0.961	96.1	0.988	541	30065	1.05
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181	159386.922	34077.215	2.080	104.0	1.069	1883	685	0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	155077.953	82056.625	5.147	102.9	1.058	4999	1975	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	160522.859	165397.938	10.022	100.2	1.030	9183	647	1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219	150279.656	419331.688	27.140	108.6	1.116	18270	590	0.97
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	145207.219	769142.313	51.520	103.0	1.059	24102	1372	1.05
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134480.000	1440703.750	104.201	104.2	1.071	41238	6535	1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	128925.859	3206485.500	241.904	96.8	0.995	51570	6840	0.95

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998393
Calibration curve: 1.02813 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



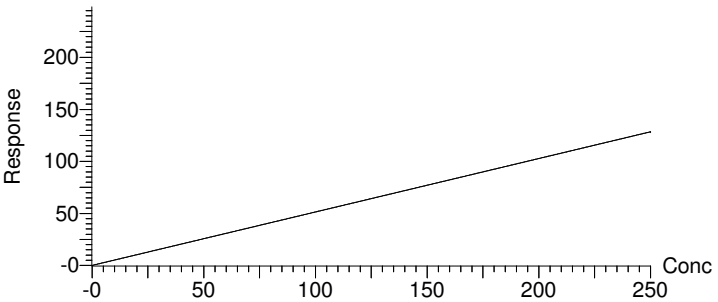
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		153514.750	8307.467	0.526					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		165433.297	16352.763	0.961					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		159386.922	34077.215	2.080					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		155077.953	82056.625	5.147					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		160522.859	165397.938	10.022					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		150279.656	419331.688	27.140					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		145207.219	769142.313	51.520					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		134480.000	1440703.750	104.201					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		128925.859	3206485.500	241.904					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.514063 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



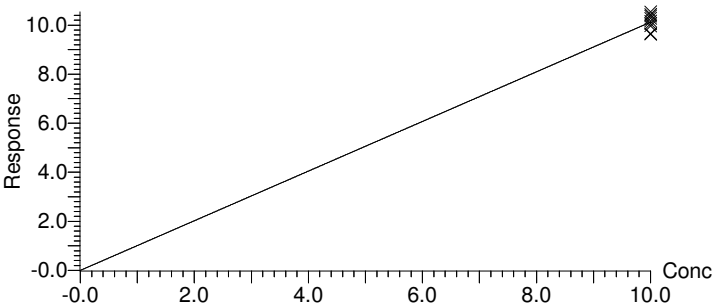
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	147122.797	153514.750	10.309	103.1	1.043	17420		0.97
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185	156924.313	165433.297	10.416	104.2	1.054	3909		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.177	155094.984	159386.922	10.153	101.5	1.028	1172		1.05
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	161129.109	155077.953	9.509	95.1	0.962	8144		0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	158026.125	160522.859	10.036	100.4	1.016	10912		0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.215	149443.000	150279.656	9.935	99.4	1.006	2820		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	139965.547	145207.219	10.250	102.5	1.037	5137		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134914.188	134480.000	9.848	98.5	0.997	2218		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	133475.219	128925.859	9.543	95.4	0.966	13872		0.91

Compound name: M8PFOA
Response Factor: 1.01215
RRF SD: 0.0326559, % Relative SD: 3.22639
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



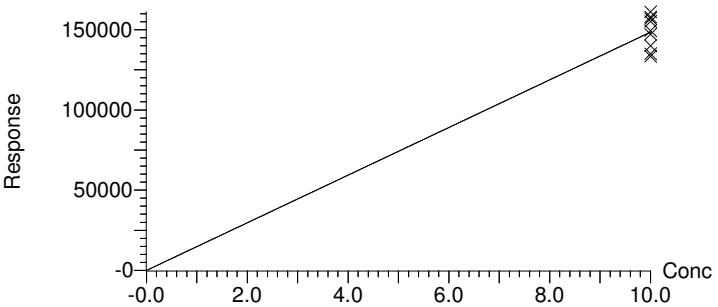
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177		147122.797	9.910	99.1	14712.280	5149		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185		156924.313	10.570	105.7	15692.431	6830		1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181		155094.984	10.447	104.5	15509.498	8378		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173		161129.109	10.854	108.5	16112.911	18076		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181		158026.125	10.645	106.4	15802.612	12943		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219		149443.000	10.067	100.7	14944.300	4007		0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223		139965.547	9.428	94.3	13996.555	3804		1.06
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173		134914.188	9.088	90.9	13491.419	6750		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116		133475.219	8.991	89.9	13347.522	4389		0.99

Compound name: M2PFOA
Response Factor: 14845.5
RRF SD: 1031.16, % Relative SD: 6.94592
Response type: External Std, Area
Curve type: RF



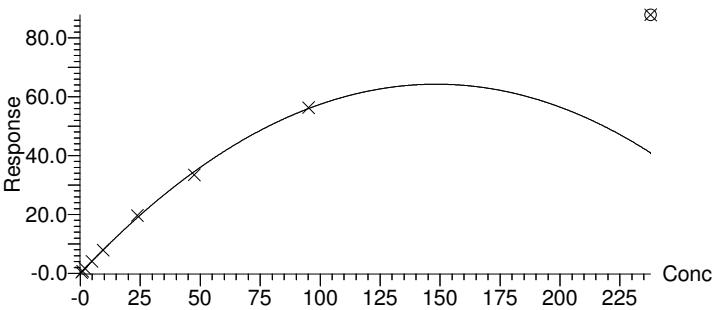
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.136	9632.247	381.124	0.435	91.5	0.791	65	61	0.90
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.139	10132.301	842.334	0.915	96.3	0.831	271	223	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.136	9832.633	1790.603	2.013	105.8	0.911	305	10530	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.128	10256.559	4409.607	4.797	100.9	0.860	96409	27838	0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.136	10473.753	8689.814	9.406	98.9	0.830	3463	53830	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.174	10932.205	22650.320	24.819	104.4	0.829	5499	1088	0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.178	12133.779	42728.625	45.691	96.1	0.704	9462	276405	1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.128	14261.171	84510.313	96.298	101.3	0.593	20902	6574	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.071	21150.656	195370.766			0.369	12854	19733	0.98

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.999204
Calibration curve: -0.00291924 * x^2 + 0.866335 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



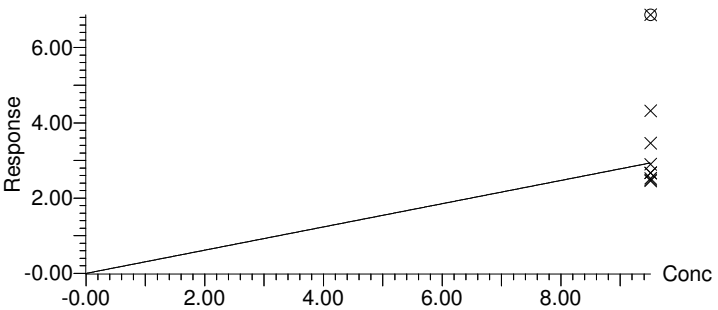
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.132	34584.156	9632.247	8.661	91.1	0.281	711		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.144	39610.352	10132.301	7.955	83.6	0.258	6291		0.92
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.136	38066.195	9832.633	8.033	84.5	0.261	217171		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.128	38934.406	10256.559	8.192	86.1	0.266	3599		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.136	37682.527	10473.753	8.644	90.9	0.281	2519		0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.174	36182.203	10932.205	9.396	98.8	0.305	1977		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.178	33694.859	12133.779	11.199	117.8	0.364	2030		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.128	31680.191	14261.171	13.999	147.2	0.454	32267		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.071	29556.729	21150.656	22.254	234.0	0.722	4674		0.97

Compound name: M2-6:2FTS
Response Factor: 0.308695
RRF SD: 0.0681176, % Relative SD: 22.0663
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



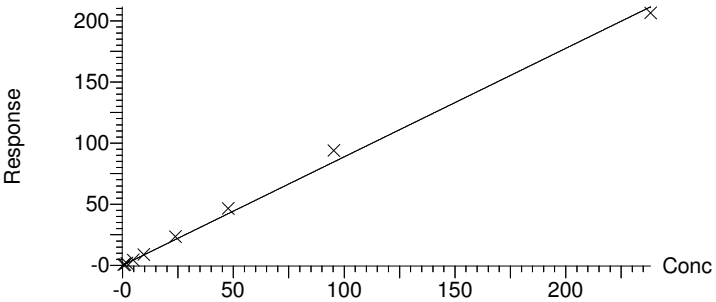
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.266	36314.703	1694.422	0.504	105.8	0.939	39037	25996	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.278	40689.613	3628.389	0.964	101.1	0.897	556	50028	0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.270	38494.648	7561.864	2.123	111.4	0.988	4185	112361	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.263	38892.625	18151.543	5.044	105.8	0.939	414373	1855	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.274	38605.141	36320.609	10.167	106.7	0.947	1583	2099	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.312	38515.820	94978.883	26.649	111.9	0.993	3418	58669	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.316	35201.945	171109.922	52.530	110.2	0.978	17906	2365	1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.266	31215.975	306050.688	105.953	111.2	0.987	18607	34133	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.209	29595.816	637270.188	232.697	97.7	0.867	73302	34603	1.01

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.996304
Calibration curve: 0.887402 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



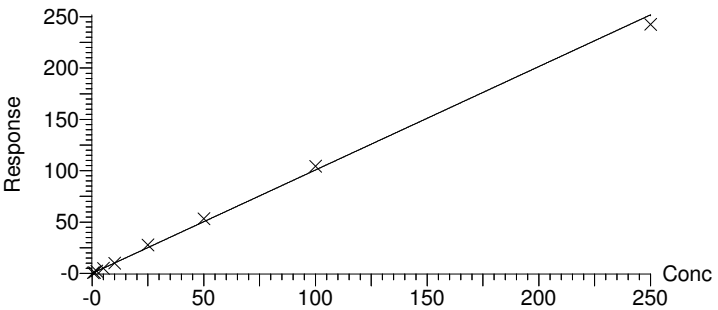
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.949	157800.344	8441.405	0.531	106.2	1.070	184	31888	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.958	173621.969	17076.375	0.976	97.6	0.984	758	51561	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.940	164422.938	35707.320	2.155	107.8	1.086	1238	132856	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.943	169127.672	84028.469	4.931	98.6	0.994	1796	286934	1.03
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.955	171216.031	171332.891	9.931	99.3	1.001	7360	2738	1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.990	158125.734	439316.063	27.573	110.3	1.111	29119	1334	1.09
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.994	147361.688	784341.313	52.824	105.6	1.065	22373	771	1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.949	137234.063	1435370.375	103.803	103.8	1.046	20218	7389	1.10
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.897	128547.320	3118641.750	240.775	96.3	0.970	33124	8858	1.01

Compound name: PFNA
Coefficient of Determination: R^2 = 0.997809
Calibration curve: 1.00761 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



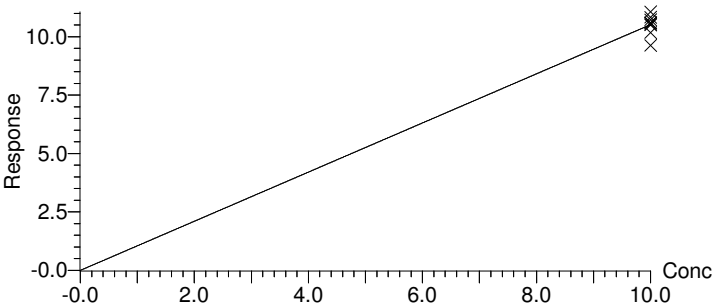
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.949	147122.797	157800.344	10.200	102.0	1.073	3317		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.958	156924.313	173621.969	10.522	105.2	1.106	3537		1.01
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.940	155094.984	164422.938	10.082	100.8	1.060	5414		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.943	161129.109	169127.672	9.982	99.8	1.050	8215		0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.955	158026.125	171216.031	10.304	103.0	1.083	10875		0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.990	149443.000	158125.734	10.063	100.6	1.058	6064		1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.990	139965.547	147361.688	10.013	100.1	1.053	4705		1.11
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.949	134914.188	137234.063	9.674	96.7	1.017	3156		1.05
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.894	133475.219	128547.320	9.159	91.6	0.963	9608		1.08

Compound name: M9PFNA
Response Factor: 1.05149
RRF SD: 0.0412298, % Relative SD: 3.92106
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



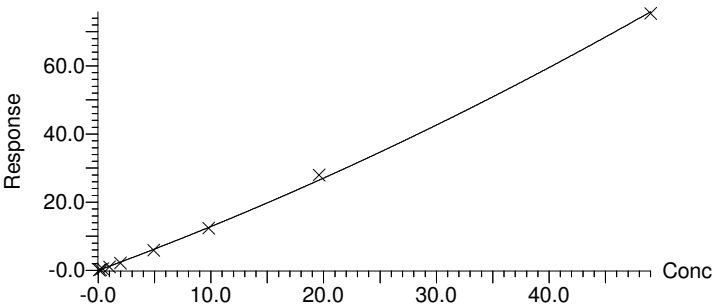
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.811	36314.703	360.542	0.078	79.6	0.972	74	25	0.30
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.819	40689.613	837.755	0.162	82.5	1.007	86	67	0.32
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.799	38494.648	1856.059	0.378	96.4	1.180	160	190	0.33
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.802	38892.625	4341.658	0.873	89.1	1.092	283	200	0.30
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.814	38605.141	8687.390	1.751	89.3	1.101	1730	465	0.32
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.849	38515.820	23606.119	4.694	95.8	1.200	1176	1679	0.33
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.852	35201.945	45407.805	9.627	98.2	1.262	4744	3717	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.808	31215.975	91048.945	20.594	105.1	1.427	9918	7351	0.33
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.757	29595.816	232519.797	48.730	99.4	1.538	16808	7421	0.31

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.998841
Calibration curve: 0.00667772 * x^2 + 1.22073 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



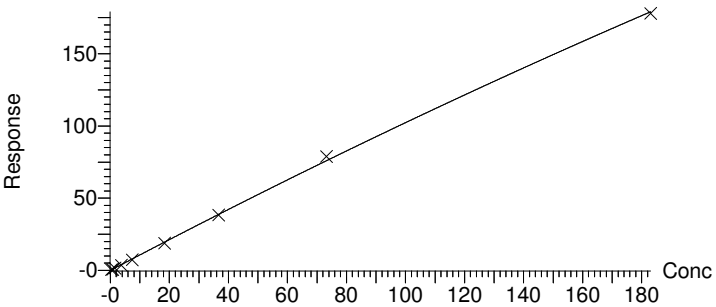
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999	36314.703	1525.751	0.374	102.2	1.101	592	263	1.09
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...	40689.613	3068.615	0.672	91.8	0.988	662	655	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988	38494.648	6434.849	1.489	101.7	1.095	1166	1782	1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.995	38892.625	14618.736	3.352	91.6	0.985	1913	1888	1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...	38605.141	29570.025	6.843	93.5	1.003	11564	4340	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...	38515.820	75321.109	17.565	96.0	1.025	7051	13843	1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...	35201.945	141060.859	36.338	99.3	1.050	27001	28655	1.16
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.0...	31215.975	256788.313	76.143	104.0	1.078	53081	55160	1.08
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947	29595.816	549437.000	181.848	99.4	0.973	78659	49011	1.10

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.999270
Calibration curve: -0.000539564 * x^2 + 1.07715 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



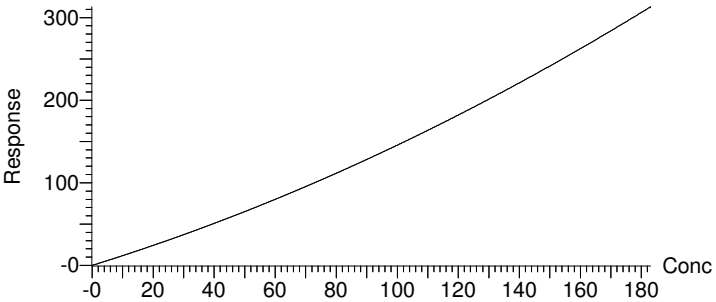
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		36314.703	1886.293	0.452					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		40689.613	3906.370	0.833					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		38494.648	8290.908	1.867					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		38892.625	18960.394	4.225					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		38605.141	38257.415	8.594					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		38515.820	98927.228	22.260					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		35201.945	186468.664	45.964					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		31215.975	347837.258	96.737					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		29595.816	781956.797	230.578					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.14894 * 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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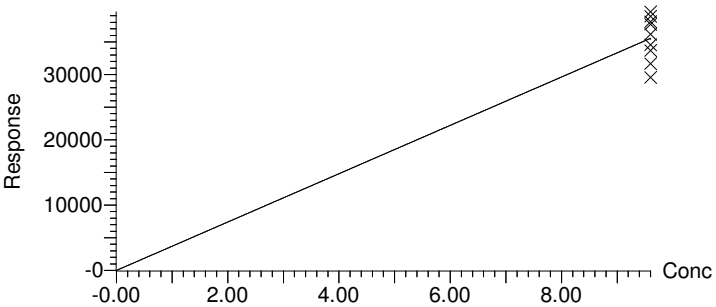
Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999		34584.156	9.338	97.3	3602.516	1873		1.10
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...		39610.352	10.695	111.4	4126.078	946913		1.11
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988		38066.195	10.278	107.1	3965.229	944760		1.08
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.991		38934.406	10.513	109.5	4055.667	2652		1.13
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...		37682.527	10.175	106.0	3925.263	893023		1.13
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...		36182.203	9.769	101.8	3768.979	1331		1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...		33694.859	9.098	94.8	3509.881	458		1.16
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.0...		31680.191	8.554	89.1	3300.020	2974		1.07
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947		29556.729	7.981	83.1	3078.826	519		1.04

Compound name: M4PFOS
Response Factor: 3703.61
RRF SD: 357.991, % Relative SD: 9.66602
Response type: External Std, Area
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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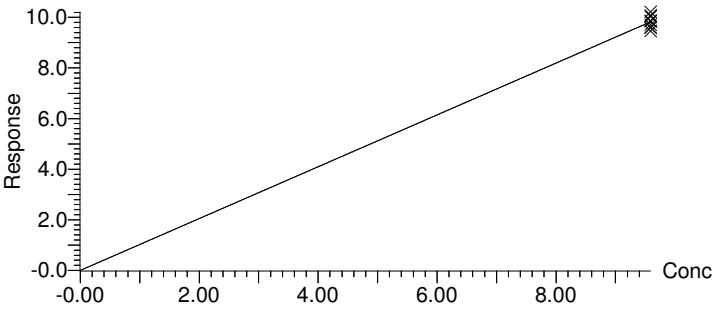
Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.999	34584.156	36314.703	9.843	102.6	1.051	881111		1.06
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.0...	39610.352	40689.613	9.629	100.4	1.028	4351		1.09
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.988	38066.195	38494.648	9.479	98.8	1.012	808		1.06
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.992	38934.406	38892.625	9.363	97.6	1.000	613		1.07
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.0...	37682.527	38605.141	9.603	100.1	1.026	705		1.12
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.0...	36182.203	38515.820	9.978	104.0	1.066	2197		1.10
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.0...	33694.859	35201.945	9.793	102.1	1.046	770150		1.12
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.999	31680.191	31215.975	9.236	96.3	0.986	715585		1.17
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.947	29556.729	29595.816	9.386	97.9	1.002	686045		1.06

Compound name: M8PFOS
Response Factor: 1.02416
RRF SD: 0.0263676, % Relative SD: 2.57455
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
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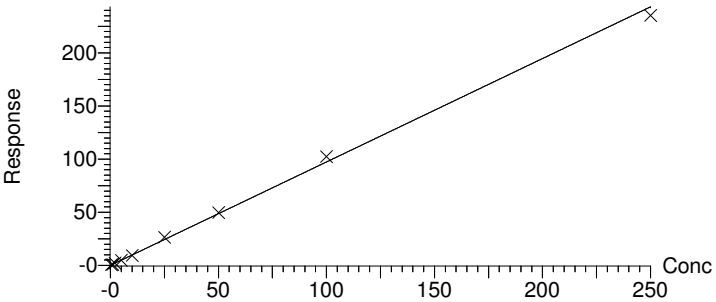
Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...	143000.563	6687.719	0.481	96.1	0.935	171354	35728	1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	152266.281	14594.298	0.985	98.5	0.958	321	78797	0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	146512.063	31389.770	2.201	110.1	1.071	1522	161084	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	143507.344	69713.453	4.991	99.8	0.972	1644	332251	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	149608.828	140701.641	9.663	96.6	0.940	3387	720082	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	136199.500	359140.063	27.093	108.4	1.055	6836	707	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	125546.047	625113.563	51.158	102.3	0.996	111754	4168	0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...	109287.211	1119599.625	105.258	105.3	1.024	24470	5229	0.94
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	99675.523	2344505.000	241.671	96.7	0.941	41767	1928	0.99

Compound name: PFDA
Coefficient of Determination: R^2 = 0.998135
Calibration curve: 0.973282 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



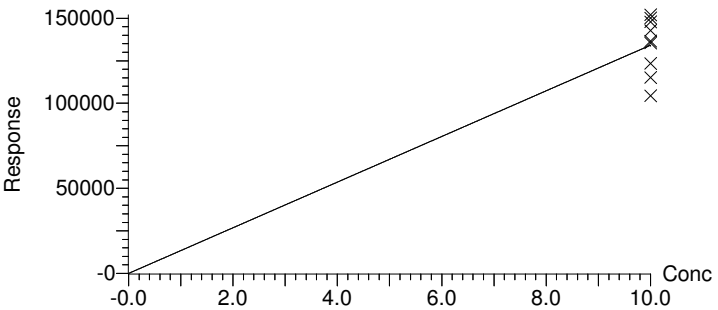
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...		136559.891	10.178	101.8	13655.989	12693		0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...		150113.188	11.189	111.9	15011.319	26107		0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...		147771.969	11.014	110.1	14777.197	103529		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...		152003.078	11.330	113.3	15200.308	15912		1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...		142807.422	10.644	106.4	14280.742	36015		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...		135401.750	10.092	100.9	13540.175	17408		1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...		123363.789	9.195	91.9	12336.379	24905		0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...		115040.492	8.575	85.7	11504.049	23871		0.93
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...		104424.445	7.783	77.8	10442.445	42243		0.99

Compound name: M2PFDA
Response Factor: 13416.5
RRF SD: 1660.78, % Relative SD: 12.3787
Response type: External Std, Area
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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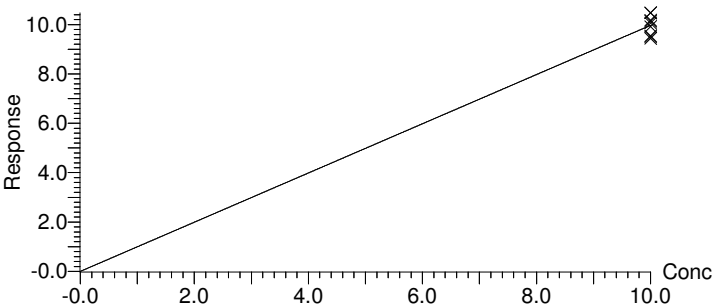
Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	136559.891	143000.563	10.503	105.0	1.047	15719		1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	150113.188	152266.281	10.174	101.7	1.014	891		0.93
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	147771.969	146512.063	9.945	99.4	0.991	985		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	152003.078	143507.344	9.470	94.7	0.944	2830		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	142807.422	149608.828	10.508	105.1	1.048	2330		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	135401.750	136199.500	10.089	100.9	1.006	4977		0.97
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	123363.789	125546.047	10.208	102.1	1.018	6675		0.94
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	115040.492	109287.211	9.529	95.3	0.950	2100		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	104424.445	99675.523	9.574	95.7	0.955	1278		0.97

Compound name: M6PFDA
Response Factor: 0.996979
RRF SD: 0.0398901, % Relative SD: 4.0011
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



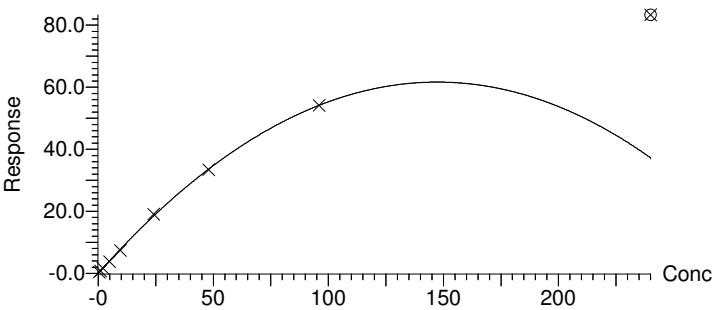
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	10722.429	471.668	0.505	105.3	0.880	308	93	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.5...	11001.994	897.808	0.939	97.8	0.816	21945	9218	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	11425.356	2028.275	2.050	106.8	0.888	478	1886	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	11368.619	4528.209	4.641	96.7	0.797	2004	478	0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.5...	12113.436	9342.728	9.127	95.1	0.771	2388	1518	1.09
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	11674.874	23197.916	24.887	103.7	0.795	3376	214133	1.04
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	12183.194	42391.984	47.586	99.1	0.696	11134	11500	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	13487.151	76124.891	96.012	100.0	0.564	21161	4632	0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	19016.189	165090.688			0.347	11943	6370	1.05

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999403
Calibration curve: -0.00284152 * x^2 + 0.837175 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



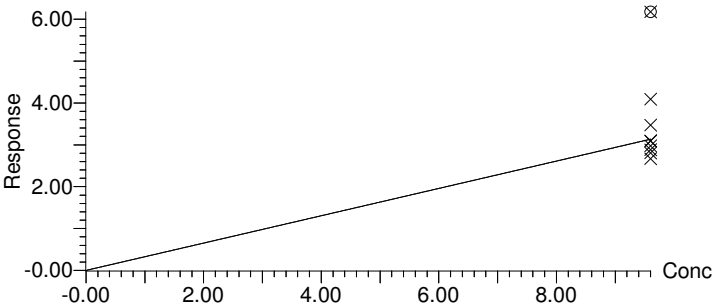
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.5...	34584.156	10722.429	9.118	95.0	0.310	500		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.5...	39610.352	11001.994	8.169	85.1	0.278	238948		0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.5...	38066.195	11425.356	8.827	92.0	0.300	320		1.02
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.5...	38934.406	11368.619	8.588	89.5	0.292	1859		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.5...	37682.527	12113.436	9.454	98.5	0.321	272763		0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	36182.203	11674.874	9.490	98.9	0.323	271981		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	33694.859	12183.194	10.634	110.8	0.362	275365		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.5...	31680.191	13487.151	12.521	130.4	0.426	199		0.95
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	29556.729	19016.189	18.922	197.1	0.643	2853		1.04

Compound name: M2-8:2FTS
Response Factor: 0.326421
RRF SD: 0.0472814, % Relative SD: 14.4848
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



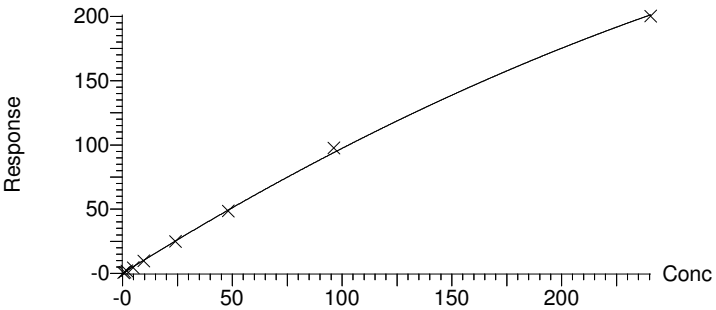
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.6...	36314.703	1534.627	0.379	78.7	0.843	45	21254	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.6...	40689.613	4170.767	0.919	95.5	1.022	372	50006	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.6...	38494.648	8346.744	1.945	101.1	1.081	1125	122259	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.6...	38892.625	18267.594	4.223	87.8	0.936	484404	263963	0.95
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.6...	38605.141	39586.168	9.262	96.3	1.022	8360	31941	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.6...	38515.820	99755.484	23.707	98.6	1.033	901	1334739	1.07
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.6...	35201.945	177845.766	47.280	98.3	1.007	14911	431	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.6...	31215.975	317555.750	100.241	104.2	1.014	4070	3613	1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.5...	29595.816	618042.938	238.874	99.3	0.833	5680	7190	1.07

Compound name: PFNS
Coefficient of Determination: R^2 = 0.999230
Calibration curve: -0.000972784 * x^2 + 1.07075 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



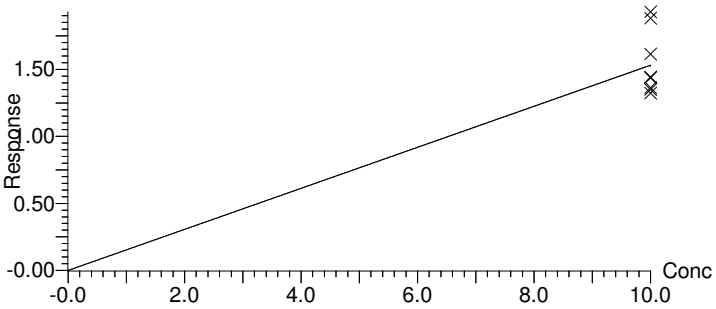
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	136559.891	19698.619	9.420	94.2	0.144	462		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	150113.188	19860.635	8.640	86.4	0.132	406151		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.9...	147771.969	19938.588	8.811	88.1	0.135	410801		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	152003.078	20723.770	8.903	89.0	0.136	762		1.06
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	142807.422	20557.605	9.401	94.0	0.144	269		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.007	135401.750	19473.371	9.392	93.9	0.144	1098		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.002	123363.789	19923.986	10.547	105.5	0.162	414		1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	115040.492	21642.051	12.285	122.9	0.188	443		1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	104424.445	20151.764	12.602	126.0	0.193	394		0.98

Compound name: d3-NMeFOSAA
Response Factor: 0.153134
RRF SD: 0.0228571, % Relative SD: 14.9263
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



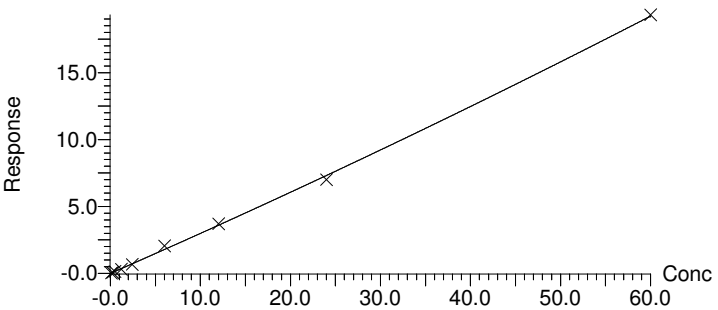
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: br-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.8...	19698.619	55.140	0.095	79.2	0.233	8	2	0.35
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.8...	19860.635	122.717	0.210	87.4	0.257	10	15	0.33
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.7...	19938.588	275.540	0.469	97.7	0.288	105	25	0.31
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.8...	20723.770	666.091	1.090	90.8	0.268	52	36	0.38
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.8...	20557.605	1381.951	2.275	94.8	0.280	93	185	0.33
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.8...	19473.371	3997.441	6.900	115.0	0.342	223	175	0.30
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.8...	19923.986	7377.806	12.350	102.9	0.309	192	467	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.8...	21642.051	15136.797	22.976	95.7	0.291	842	756	0.31
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.7...	20151.764	38931.547	60.281	100.5	0.322	1138	2024	0.30

Compound name: br-NMeFOSAA
Coefficient of Determination: R^2 = 0.998045
Calibration curve: 0.000430793 * x^2 + 0.294516 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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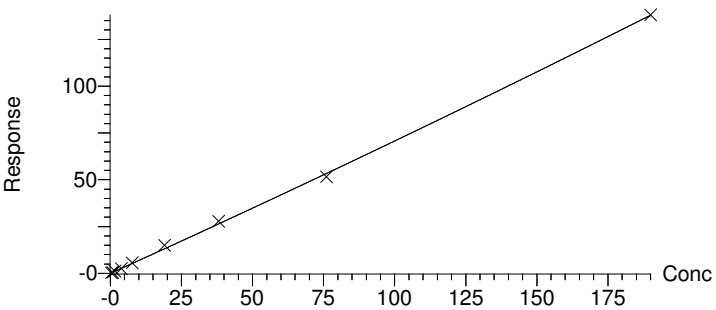
Compound name: L-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	19698.619	628.658	0.465	122.3	0.840	97	17	1.07
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	19860.635	1171.538	0.859	113.0	0.776	124	136	1.07
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.9...	19938.588	2476.010	1.807	118.9	0.817	1263	171	0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	20723.770	5293.483	3.715	97.8	0.672	517	225	0.89
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	20557.605	11432.068	8.078	106.3	0.732	958	1020	0.96
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.012	19473.371	29356.979	21.810	114.8	0.793	2088	1003	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.007	19923.986	55490.746	40.076	105.5	0.733	1846	2791	1.01
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	21642.051	111712.688	73.545	96.8	0.679	7880	4395	0.93
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	20151.764	278317.000	190.266	100.1	0.727	10259	11104	1.01

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.999430
Calibration curve: 0.000205828 * x^2 + 0.686719 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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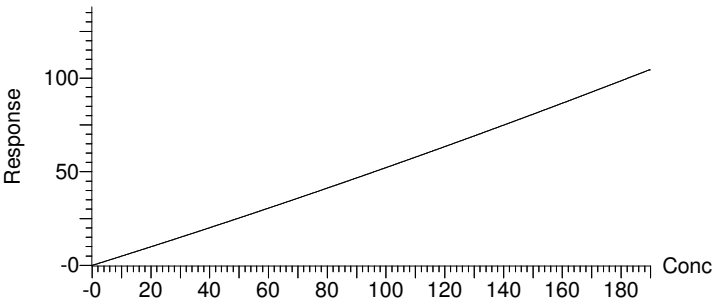
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		19698.619	683.798	0.560					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		19860.635	1294.255	1.068					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		19938.588	2751.550	2.276					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		20723.770	5959.574	4.805					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		20557.605	12814.019	10.353					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		19473.371	33354.420	28.711					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		19923.986	62868.552	52.426					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		21642.051	126849.485	96.521					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		20151.764	317248.547	250.547					

Compound name: NMeFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.490618 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



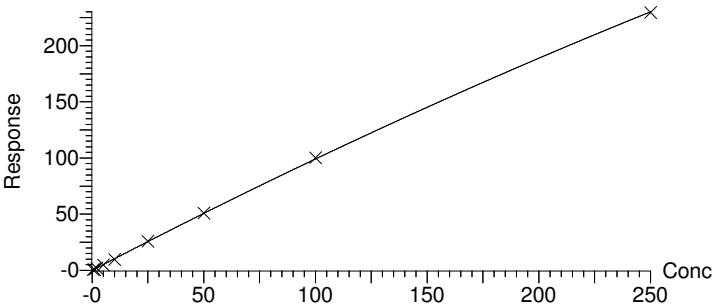
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.162	160545.063	8141.563	0.488	97.6	1.014	162	22336	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.167	170250.172	16321.247	0.923	92.3	0.959	709	47093	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.140	167266.063	34421.027	1.982	99.1	1.029	700	87655	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.153	164943.875	80697.961	4.717	94.3	0.978	1051	1351	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.180	160161.422	156610.328	9.449	94.5	0.978	1851	1066	0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.197	144709.172	374173.469	25.168	100.7	1.034	9988	2121	0.89
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.189	130220.398	664186.000	50.228	100.5	1.020	21133	2372	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.162	117643.695	1178736.250	101.076	101.1	1.002	5800	2082	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.127	102417.656	2352319.000	249.452	99.8	0.919	26175	10415	0.99

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999821
Calibration curve: -0.000475542 * x^2 + 1.03936 * x
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



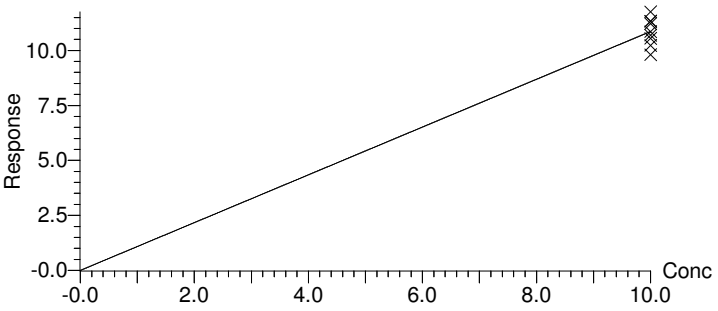
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.162	136559.891	160545.063	10.823	108.2	1.176	5267		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.167	150113.188	170250.172	10.441	104.4	1.134	5307		0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.140	147771.969	167266.063	10.421	104.2	1.132	3706		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.153	152003.078	164943.875	9.990	99.9	1.085	7914		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.180	142807.422	160161.422	10.325	103.2	1.122	3797		0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.193	135401.750	144709.172	9.839	98.4	1.069	3362		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.189	123363.789	130220.398	9.718	97.2	1.056	442		1.02
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.162	115040.492	117643.695	9.414	94.1	1.023	3505		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.127	104424.445	102417.656	9.029	90.3	0.981	1493		0.99

Compound name: M7-PFUDA
Response Factor: 1.08623
RRF SD: 0.0612715, % Relative SD: 5.64074
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



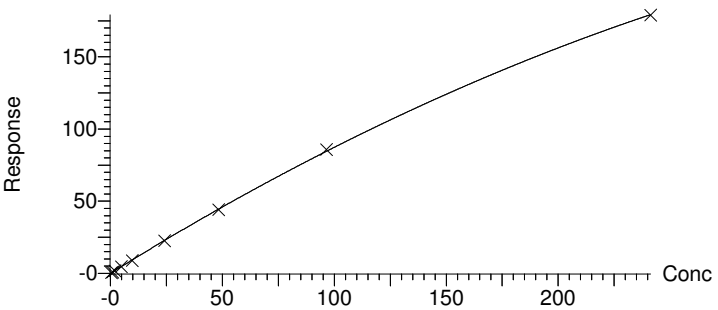
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.172	36314.703	1641.395	0.449	93.0	0.898	28375	13	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.181	40689.613	3528.160	0.861	89.3	0.862	59167	34442	0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.150	38494.648	7406.857	1.914	99.1	0.956	125348	254	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.164	38892.625	18579.631	4.764	98.7	0.949	677	169856	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.190	38605.141	36058.676	9.356	97.0	0.928	612242	649	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.208	38515.820	91225.227	24.066	99.8	0.942	2251	1036	0.85
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.203	35201.945	162254.719	47.956	99.4	0.916	2125	1564	0.87
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.172	31215.975	279389.625	98.044	101.6	0.889	3333	5591	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.142	29595.816	551970.563	240.452	99.7	0.741	13119	5389	0.93

Compound name: PFDS
Coefficient of Determination: R^2 = 0.999856
Calibration curve: -0.000924231 * x^2 + 0.966066 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



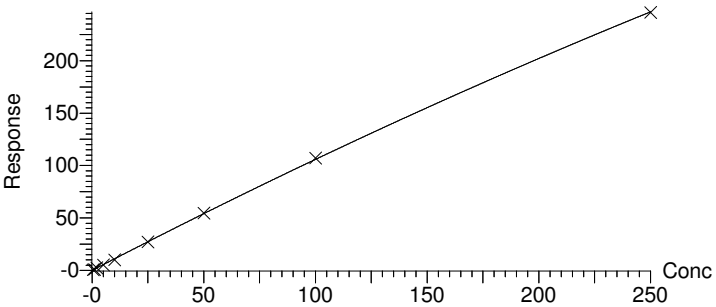
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	93561.508	5576.766	0.538	107.7	1.192	83772	833	0.94
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	104505.750	10349.450	0.895	89.5	0.990	817	4	0.97
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.911	104189.609	24175.404	2.097	104.8	1.160	1737	17	1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	101027.609	51913.668	4.649	93.0	1.028	333	42	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	102639.180	104751.703	9.252	92.5	1.021	1735	98	1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.9...	98127.992	267875.719	24.919	99.7	1.092	7348	109316	1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.9...	93624.414	512166.094	50.507	101.0	1.094	6879	761	1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	90445.914	969786.688	101.295	101.3	1.072	12369	747	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.9...	89637.250	2205518.750	249.328	99.7	0.984	10756	1143	0.97

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999673
Calibration curve: -0.000484129 * x^2 + 1.10756 * x
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



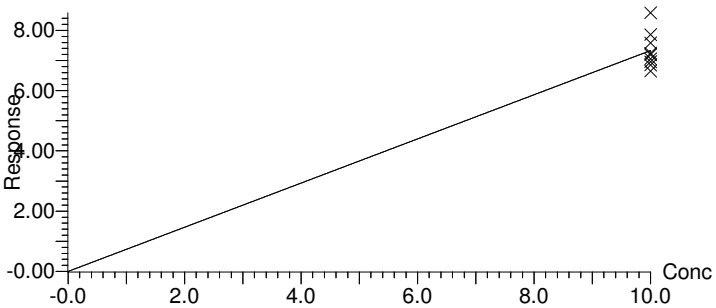
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.9...	136559.891	93561.508	9.346	93.5	0.685	1999		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.9...	150113.188	104505.750	9.496	95.0	0.696	2383		1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.911	147771.969	104189.609	9.618	96.2	0.705	1721		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.9...	152003.078	101027.609	9.066	90.7	0.665	1639		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.9...	142807.422	102639.180	9.804	98.0	0.719	1455		1.03
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.9...	135401.750	98127.992	9.886	98.9	0.725	2330		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.9...	123363.789	93624.414	10.352	103.5	0.759	1604		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.9...	115040.492	90445.914	10.724	107.2	0.786	2033		1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.8...	104424.445	89637.250	11.709	117.1	0.858	1749		1.05

Compound name: M8FOSA
Response Factor: 0.733111
RRF SD: 0.0597907, % Relative SD: 8.15575
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



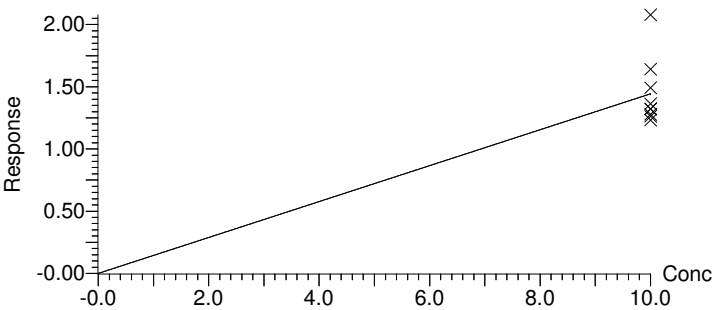
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.270	136559.891	17228.459	8.741	87.4	0.126	326		0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.277	150113.188	19169.049	8.848	88.5	0.128	1346		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.248	147771.969	19544.293	9.164	91.6	0.132	328		0.90
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.262	152003.078	18721.293	8.534	85.3	0.123	256		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.284	142807.422	18895.623	9.168	91.7	0.132	577		1.02
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.299	135401.750	18456.531	9.444	94.4	0.136	347033		1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.295	123363.789	18402.270	10.336	103.4	0.149	259		1.03
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.270	115040.492	18875.232	11.368	113.7	0.164	358246		1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.237	104424.445	21699.475	14.398	144.0	0.208	390798		0.90

Compound name: d5-NEtFOSAA
Response Factor: 0.144328
RRF SD: 0.0270439, % Relative SD: 18.7378
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



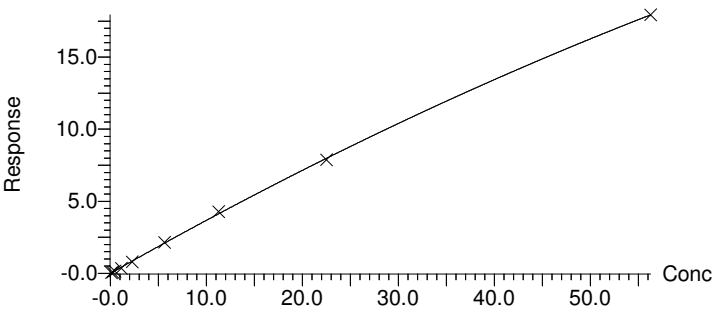
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: br-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.119	17228.459	76.875	0.118	104.7	0.397	3	1	0.25
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.128	19169.049	181.415	0.250	111.1	0.421	11	11	0.28
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.102	19544.293	293.208	0.396	88.1	0.333	28	27	0.31
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.119	18721.293	663.711	0.938	83.4	0.315	44	179	0.33
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.141	18895.623	1520.009	2.136	95.0	0.358	44	237	0.32
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.159	18456.531	3976.891	5.782	102.8	0.383	196	213	0.32
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.155	18402.270	7879.234	11.688	103.9	0.381	642	89	0.32
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.128	18875.232	14885.643	22.209	98.7	0.351	737	164	0.30
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.093	21699.475	38916.180	56.269	100.0	0.319	1210	13436	0.29

Compound name: br-NEtFOSAA
Coefficient of Determination: R^2 = 0.999106
Calibration curve: -0.00106791 * x^2 + 0.378812 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



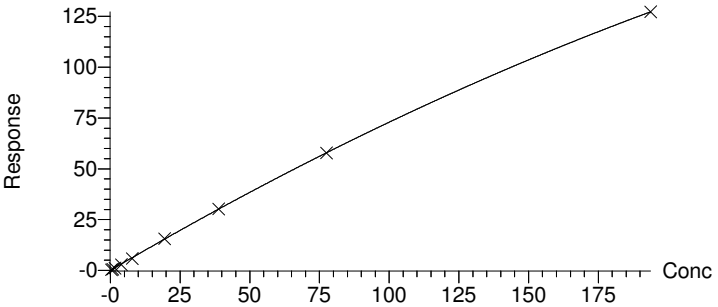
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: L-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.277	17228.459	614.097	0.442	114.0	0.920	49	10	1.05
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.284	19169.049	1090.526	0.705	91.0	0.734	115	116	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.259	19544.293	2254.554	1.431	92.3	0.744	354	242	0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.270	18721.293	5340.047	3.546	91.5	0.736	701	1495	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.295	18895.623	10891.336	7.191	92.8	0.744	567	2293	0.97
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.310	18456.531	28679.654	19.623	101.3	0.802	2699	1786	0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.306	18402.270	55512.680	38.824	100.2	0.778	8050	715	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.281	18875.232	109249.570	77.482	100.0	0.747	9737	1369	0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.248	21699.475	276146.906	193.747	100.0	0.657	15124	106068	0.91

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.999977
Calibration curve: -0.000775645 * x^2 + 0.807112 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



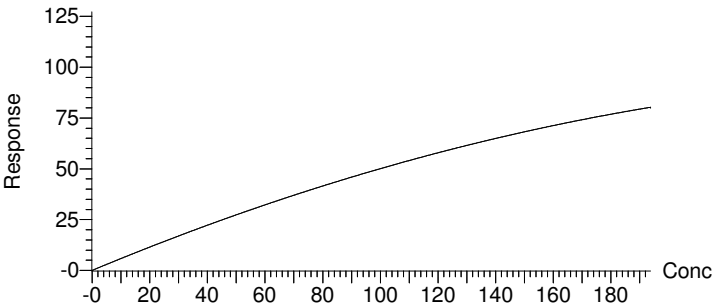
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31		17228.459	690.972	0.560					
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05		19169.049	1271.941	0.955					
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39		19544.293	2547.762	1.828					
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10		18721.293	6003.758	4.485					
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44		18895.623	12411.345	9.328					
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15		18456.531	32656.545	25.405					
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55		18402.270	63391.914	50.512					
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26		18875.232	124135.213	99.691					
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00		21699.475	315063.086	250.017					

Compound name: NEtFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.592962 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



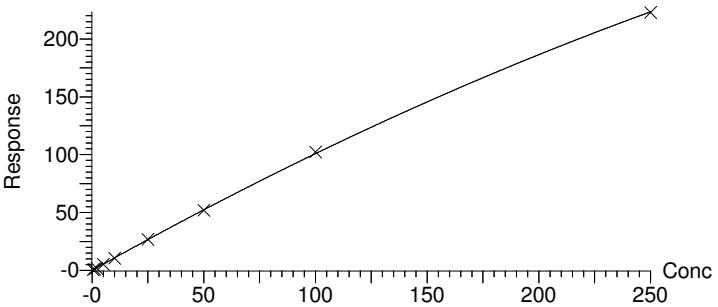
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.653	157363.516	7662.594	0.449	89.7	0.974	109	21	1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.659	184836.938	18403.557	0.917	91.7	0.996	138	49040	1.04
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.633	167036.438	34280.215	1.892	94.6	1.026	1592	91401	1.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.646	167881.391	88923.680	4.894	97.9	1.059	1258	215071	1.25
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.672	176851.766	184428.047	9.669	96.7	1.043	2993	455506	0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.678	172742.422	462666.313	25.108	100.4	1.071	4870	1103455	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.678	161041.922	838181.813	49.672	99.3	1.041	18029	910	0.91
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.660	142443.422	1458225.000	101.569	101.6	1.024	17669	1257	1.02
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.620	135332.828	3016913.750	249.272	99.7	0.892	48206	5808	1.73

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.999841
Calibration curve: -0.000769133 * x^2 + 1.08603 * x
Response type: Internal Std (Ref 54), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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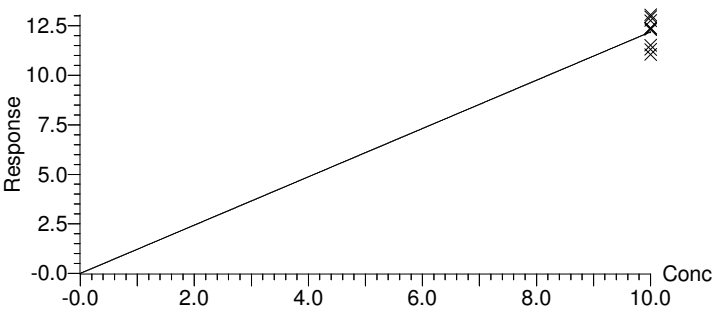
Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.653	136559.891	157363.516	9.452	94.5	1.152	7165		1.10
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.666	150113.188	184836.938	10.100	101.0	1.231	2940		0.91
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.633	147771.969	167036.438	9.272	92.7	1.130	3492		1.43
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.646	152003.078	167881.391	9.059	90.6	1.104	4104		1.26
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.672	142807.422	176851.766	10.158	101.6	1.238	1998		0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.678	135401.750	172742.422	10.465	104.6	1.276	7940		0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.678	123363.789	161041.922	10.708	107.1	1.305	3903		0.90
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.660	115040.492	142443.422	10.156	101.6	1.238	4893		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.620	104424.445	135332.828	10.630	106.3	1.296	1346		1.70

Compound name: MPFDOA
Response Factor: 1.21914
RRF SD: 0.0732588, % Relative SD: 6.00905
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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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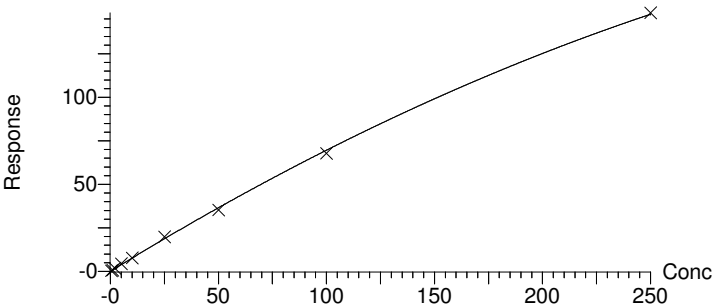
Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.0...	151500.610	5617.854	0.484	96.8	0.742	364	9857	1.18
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.0...	174011.688	13229.878	0.993	99.3	0.760	300650	26	0.92
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.0...	162082.586	30450.385	2.458	122.9	0.939	1810	68552	1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.0...	163399.149	70971.984	5.699	114.0	0.869	667	178182	1.04
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.1...	169701.110	132185.031	10.263	102.6	0.779	652	304	0.99
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.1...	161631.578	320244.875	26.502	106.0	0.793	2150	2246	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.1...	152923.664	540370.250	48.250	96.5	0.707	2504	264	0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.0...	136659.231	927298.563	97.214	97.2	0.679	2986	570	0.88
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.0...	123630.625	1836066.250	251.963	100.8	0.594	5775	1647	1.01

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998674
Calibration curve: -0.000701589 * x^2 + 0.766196 * x
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



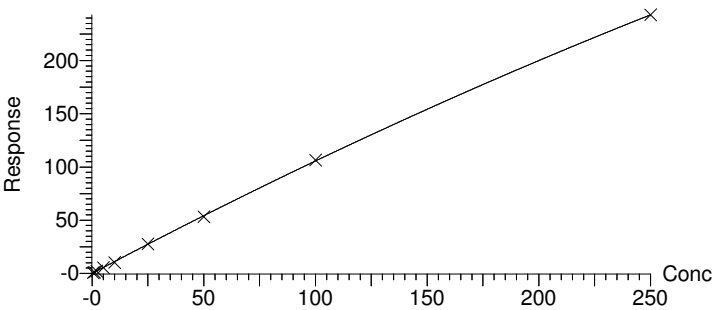
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.4...	145637.703	7775.461	0.480	95.9	1.068	167258	7924	0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.4...	163186.438	17434.182	0.960	96.0	1.068	183	60	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.4...	157128.734	33503.504	1.917	95.8	1.066	698974	17	0.88
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.4...	158916.906	85666.758	4.852	97.0	1.078	1388	98824	0.97
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.4...	162550.453	166204.922	9.225	92.2	1.022	1896	227188	0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.4...	150520.734	414829.938	25.066	100.3	1.102	3265	569	0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.4...	144805.406	769350.125	48.923	97.8	1.063	7480	1379	0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.4...	130875.039	1395105.750	100.887	100.9	1.066	1994	1827435	0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.4...	111928.422	2719679.750	249.885	100.0	0.972	16306	1827	0.97

Compound name: PFTA
Coefficient of Determination: R^2 = 0.999945
Calibration curve: -0.000565322 * x^2 + 1.11365 * x
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



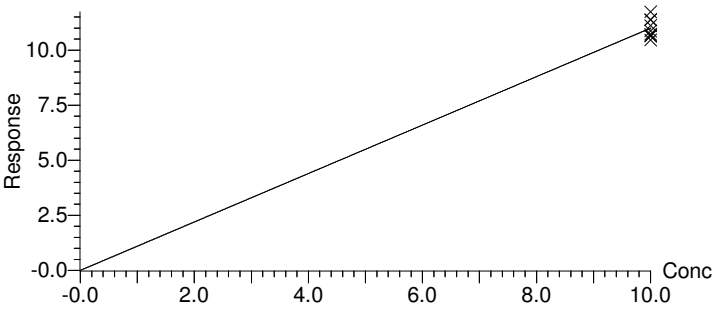
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.4...	136559.891	145637.703	9.700	97.0	1.066	838		0.96
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.4...	150113.188	163186.438	9.887	98.9	1.087	4706		0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.4...	147771.969	157128.734	9.671	96.7	1.063	4680		0.87
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.4...	152003.078	158916.906	9.509	95.1	1.045	2282		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.4...	142807.422	162550.453	10.352	103.5	1.138	1246		0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.4...	135401.750	150520.734	10.111	101.1	1.112	2831		0.98
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.4...	123363.789	144805.406	10.676	106.8	1.174	867		0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.4...	115040.492	130875.039	10.347	103.5	1.138	4183		0.88
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.4...	104424.445	111928.422	9.749	97.5	1.072	850		0.98

Compound name: M2PFTEDA
Response Factor: 1.09951
RRF SD: 0.0431006, % Relative SD: 3.91999
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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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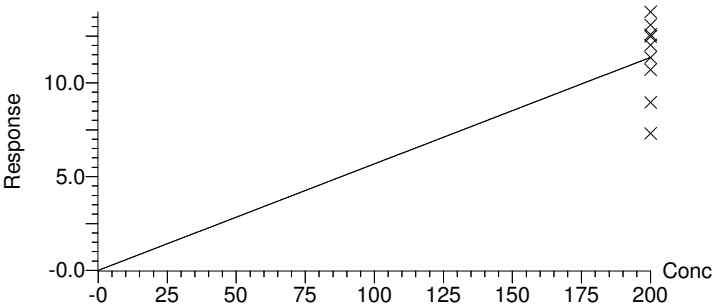
Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.390	147122.797	202865.719	242.731	121.4	0.069	9942		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.397	156924.313	197428.594	221.470	110.7	0.063	12164		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.407	155094.984	186442.828	211.614	105.8	0.060	13623		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.394	161129.109	201041.844	219.638	109.8	0.062	20641		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.401	158026.125	206714.469	230.270	115.1	0.065	4320		1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.407	149443.000	169614.641	199.795	99.9	0.057	4570		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.407	139965.547	149838.547	188.451	94.2	0.054	35208		1.01
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.404	134914.188	120767.445	157.575	78.8	0.045	9692		1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.356	133475.219	97400.102	128.456	64.2	0.036	4134		0.90

Compound name: M3HFPO-DA
Response Factor: 0.0568073
RRF SD: 0.0104243, % Relative SD: 18.3503
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
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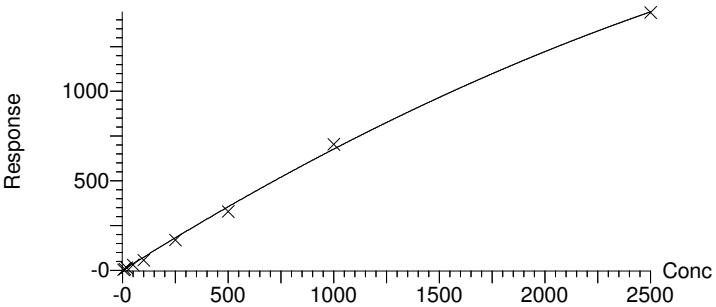
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	7.394	202865.719	3100.306	4.108	82.2	0.611	222	440	0.98
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	7.397	197428.594	6209.495	8.459	84.6	0.629	170	5	1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	7.407	186442.828	13980.450	20.188	100.9	0.750	647	49	0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	7.394	201041.844	30653.072	41.126	82.3	0.610	917	7852	1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	7.404	206714.469	59715.582	78.179	78.2	0.578	7787	20883	0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	7.407	169614.641	143458.906	232.118	92.8	0.677	3413	64788	1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	7.411	149838.547	246042.438	460.241	92.0	0.657	6654	149454	0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	7.404	120767.445	424807.188	1042.619	104.3	0.704	10977	1156	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	7.356	97400.102	701866.063	2492.930	99.7	0.576	55548	7330	0.92

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.998998
Calibration curve: -6.66337e-005 * x^2 + 0.744229 * x
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: Null, Axis trans: None



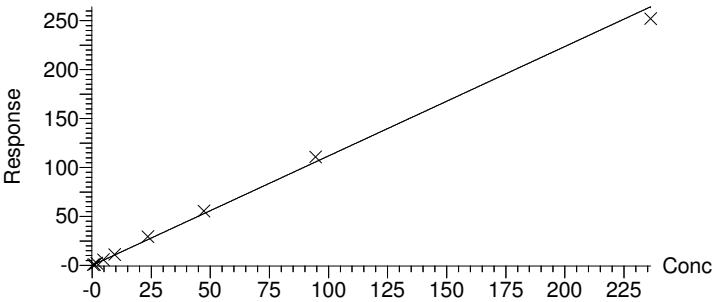
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	8.402	153514.750	8458.951	0.493	104.3	1.166	555	1392	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	8.412	165433.297	17303.049	0.935	99.0	1.107	560	3876	0.99
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	8.412	159386.922	37238.879	2.090	110.6	1.236	987	6997	0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	8.398	155077.953	89303.594	5.151	109.0	1.219	3958	5	0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	8.402	160522.859	175824.797	9.797	103.7	1.159	10986	40626	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	8.431	150279.656	442798.188	26.353	111.5	1.247	24943	497	0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	8.435	145207.219	806835.063	49.697	105.2	1.176	27666	1280	0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	8.402	134480.000	1490580.625	99.136	104.9	1.173	31266	414	1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	8.347	128925.859	3249911.250	225.457	95.4	1.067	93210	888	0.97

Compound name: ADONA
Coefficient of Determination: R^2 = 0.996901
Calibration curve: 1.11807 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



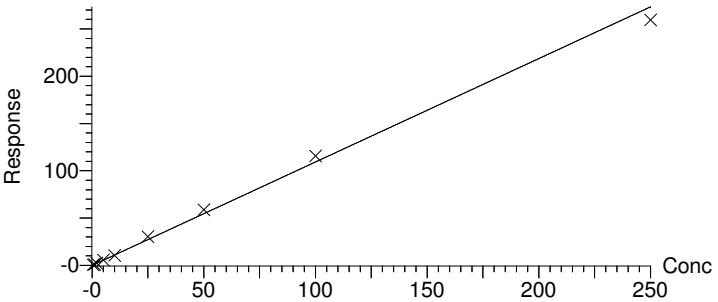
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.8...	245248.094	15072.678	0.562	112.4	1.229	3068	157	0.92
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.8...	249532.422	29058.207	1.065	106.5	1.165	3704	310	0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.8...	243547.672	59521.867	2.235	111.8	1.222	10543	1073	0.88
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.8...	243904.516	140120.000	5.254	105.1	1.149	22742	1189	0.88
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.8...	260391.656	275013.625	9.659	96.6	1.056	39885	6559	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.8...	234321.375	709674.313	27.699	110.8	1.211	163623	6358	0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.8...	215025.078	1263961.500	53.760	107.5	1.176	117587	21253	0.92
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.8...	193275.797	2236173.250	105.814	105.8	1.157	319692	7022	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.8...	171179.391	4444388.500	237.452	95.0	1.039	216829	65891	0.92

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.996192
Calibration curve: 1.09342 * x
Response type: Internal Std (Ref 63), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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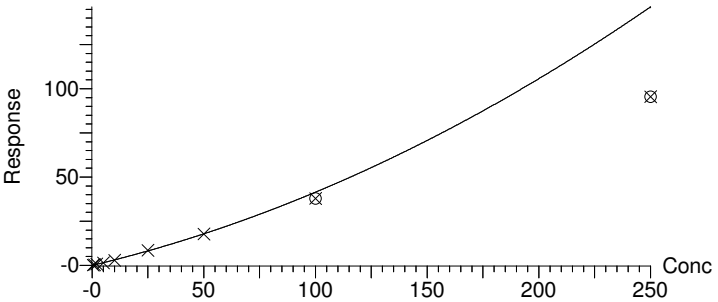
Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	13.0...	245248.094	4069.570	0.551	110.1	0.332	671	3	0.85
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	13.0...	249532.422	7831.159	1.040	104.0	0.314	788	1514	0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	13.0...	243547.672	15936.062	2.159	107.9	0.327	1773	3520	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	13.0...	243904.516	37386.809	5.003	100.1	0.307	3934	9668	0.86
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	13.0...	260391.656	74422.164	9.186	91.9	0.286	9550	17002	0.85
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	13.0...	234321.375	199177.766	25.757	103.0	0.340	14031	48451	0.90
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	13.0...	215025.078	382661.469	49.793	99.6	0.356	25982	1102	0.86
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	13.0...	193275.797	732095.125	93.121	93.1	0.379	45260	885	0.82
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	13.0...	171179.391	1635632.375	186.292	74.5	0.382	75153	2255	0.97

Compound name: PFODA
Coefficient of Determination: R^2 = 0.998768
Calibration curve: 0.00113928 * x^2 + 0.300671 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



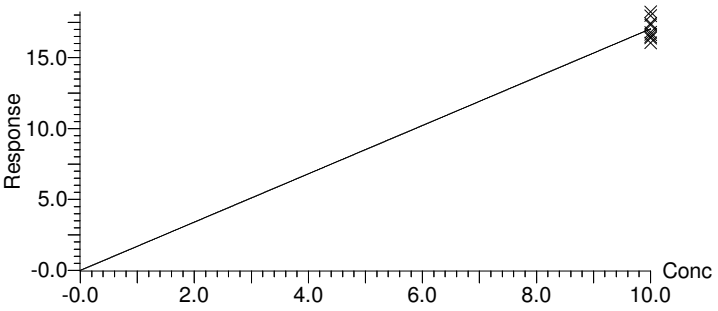
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard 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	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.8...	136559.891	245248.094	10.545	105.5	1.796	81693		0.88
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.8...	150113.188	249532.422	9.761	97.6	1.662	70902		0.89
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.8...	147771.969	243547.672	9.678	96.8	1.648	79663		0.99
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.8...	152003.078	243904.516	9.422	94.2	1.605	138665		0.99
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.8...	142807.422	260391.656	10.707	107.1	1.823	59753		0.89
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.8...	135401.750	234321.375	10.162	101.6	1.731	84285		0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.8...	123363.789	215025.078	10.235	102.3	1.743	117466		0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.8...	115040.492	193275.797	9.865	98.7	1.680	92925		0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.8...	104424.445	171179.391	9.626	96.3	1.639	78252		1.01

Compound name: M2PFHxDA
Response Factor: 1.70302
RRF SD: 0.0745148, % Relative SD: 4.37544
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



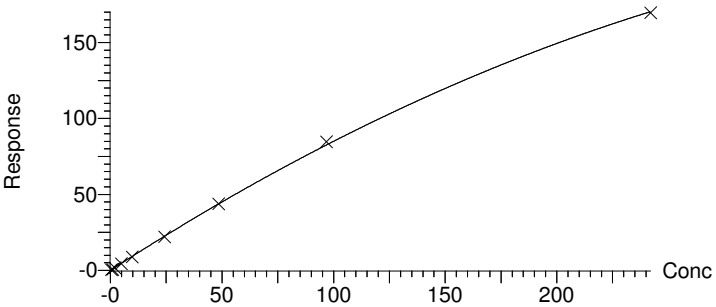
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	12.0...	36314.703	1586.065	0.440	90.9	0.865	21786	12003	1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	12.0...	40689.613	2987.514	0.739	76.4	0.727	39308	25039	1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	12.0...	38494.648	6905.263	1.809	93.4	0.889	92465	60963	0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	12.0...	38892.625	17604.316	4.578	94.6	0.897	235289	161652	1.03
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	12.0...	38605.141	35476.266	9.342	96.5	0.910	463355	429	1.04
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	12.0...	38515.820	88476.922	23.725	98.0	0.910	1154020	1860	1.00
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	12.0...	35201.945	160580.094	48.441	100.1	0.904	2082128	1338224	1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	12.0...	31215.975	275820.875	99.645	102.9	0.875	1262	1241	1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	12.0...	29595.816	523204.719	240.250	99.3	0.701	3943	555	1.00

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.999444
Calibration curve: -0.00102929 * x^2 + 0.952947 * x
Response type: Internal Std (Ref 33), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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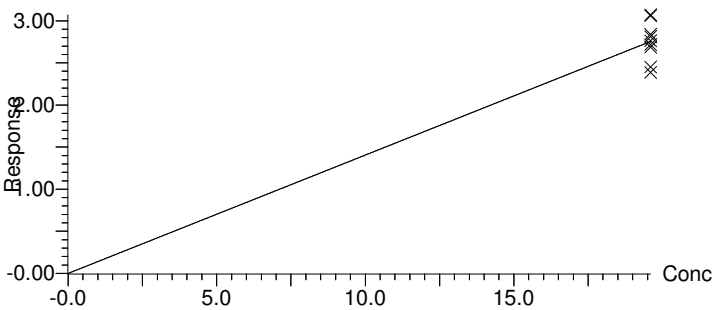
Compound name: M2D4-10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.661	34584.156	11027.364	21.784	111.1	0.156	1228		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.673	39610.352	11716.626	20.209	103.1	0.145	206305		0.84
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.641	38066.195	11153.495	20.018	102.1	0.144	210276		1.37
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.654	38934.406	10897.767	19.123	97.6	0.137	192215		1.14
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.679	37682.527	12052.865	21.852	111.5	0.157	213825		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.685	36182.203	10408.367	19.653	100.3	0.141	184018		0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.685	33694.859	9542.466	19.348	98.7	0.139	171205		0.90
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.667	31680.191	8083.735	17.433	88.9	0.125	136579		0.96
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.634	29556.729	7346.494	16.981	86.6	0.122	141507		1.32

Compound name: M2D4-10:2FTS
Response Factor: 0.140517
RRF SD: 0.0119524, % Relative SD: 8.50603
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



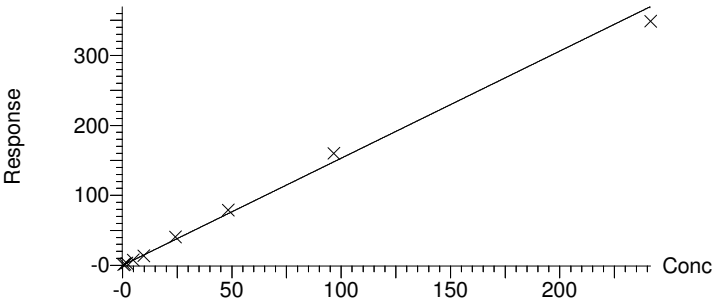
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.666	11027.364	579.173	0.672	139.2	2.131	119	76	1.03
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.679	11716.626	1006.036	1.099	113.8	1.742	471	4683	0.88
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.647	11153.495	1752.490	2.011	104.1	1.594	28032	9113	1.32
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.660	10897.767	4243.908	4.985	103.2	1.580	1526	849	1.13
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.685	12052.865	8524.449	9.054	93.7	1.435	1675	41715	0.93
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.691	10408.367	21723.727	26.719	110.6	1.694	2630	97267	0.91
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.691	9542.466	38440.852	51.570	106.8	1.635	561254	11691	0.93
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.673	8083.735	65984.641	104.495	108.2	1.656	11916	547	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.640	7346.494	130736.984	227.815	94.3	1.444	4291	2800	1.42

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.994951
Calibration curve: 1.53106 * x
Response type: Internal Std (Ref 65), 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: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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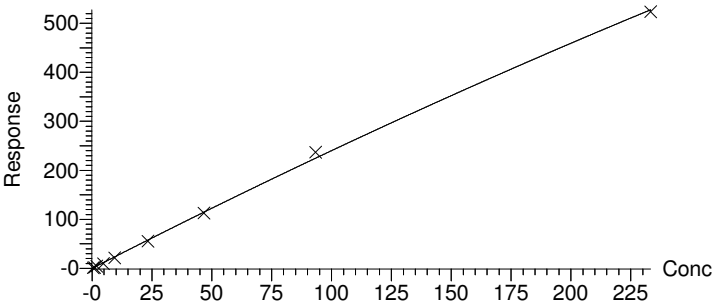
Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	10.3...	36314.703	4058.304	0.427	91.6	2.297	67	32	1.09
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	10.3...	40689.613	8650.195	0.813	87.2	2.185	106	122	0.98
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	10.3...	38494.648	17555.332	1.745	93.5	2.344	316	143	1.00
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	10.3...	38892.625	40944.816	4.033	86.5	2.164	589	401	0.96
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	10.3...	38605.141	87403.328	8.691	93.1	2.327	1336	646	1.05
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	10.4...	38515.820	223099.422	22.363	95.9	2.382	5384	1360	1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	10.4...	35201.945	414182.063	45.884	98.4	2.419	9254	2812	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	10.3...	31215.975	771658.063	98.632	105.7	2.541	11462	10167	0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	10.3...	29595.816	1614977.500	231.163	99.1	2.244	28161	9123	0.98

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.998624
Calibration curve: -0.00105427 * x^2 + 2.5075 * x
Response type: Internal Std (Ref 33), 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\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
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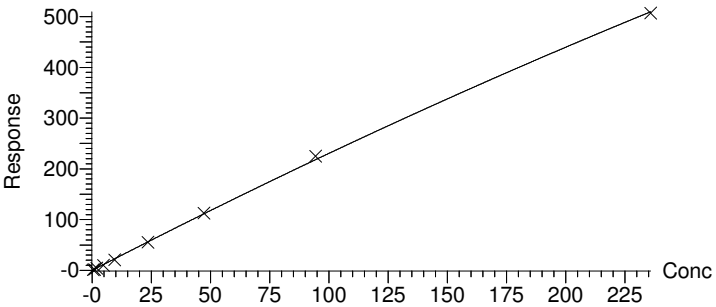
Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.440	36314.703	3802.907	0.416	88.3	2.130	825	28286	0.89
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.451	40689.613	8073.729	0.789	83.6	2.018	1934	502	0.88
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.422	38494.648	16966.781	1.752	92.9	2.241	4403	110	0.93
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.436	38892.625	39962.957	4.090	86.7	2.090	6299	878	0.89
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.460	38605.141	84452.055	8.725	92.5	2.225	17196	1707	0.88
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.469	38515.820	221945.125	23.132	98.1	2.344	40603	6403	0.92
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.469	35201.945	414830.906	47.836	101.5	2.397	72983	2239	0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.444	31215.975	731791.313	97.351	103.2	2.384	156951	5508	0.89
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.414	29595.816	1564315.500	234.431	99.4	2.150	277050	2525	0.93

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.999178
Calibration curve: -0.00107336 * x^2 + 2.41384 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



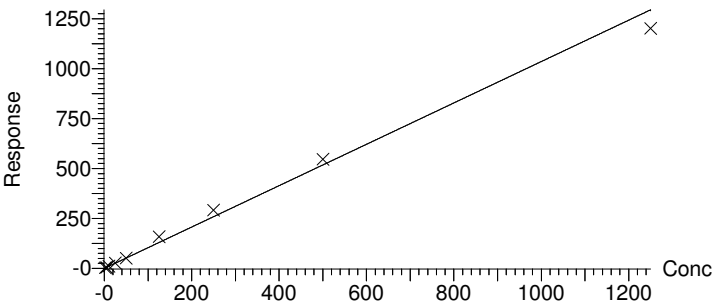
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.562	286111.156	7445.580	2.513	100.5	1.041	163	51	1.04
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.575	303154.063	15671.203	4.992	99.8	1.034	388	275	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.545	298274.344	34775.797	11.258	112.6	1.166	774	150	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.560	297869.031	79494.305	25.770	103.1	1.068	2330	754	1.05
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.585	310000.719	161408.453	50.277	100.6	1.041	1374	3448	1.16
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.592	275379.063	438052.688	153.605	122.9	1.273	3827	2887	1.44
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.592	268328.531	781535.250	281.249	112.5	1.165	8347	9693	1.44
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.570	238589.266	1303163.375	527.421	105.5	1.092	30968	11400	1.07
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.540	216400.609	2600530.750	1160.414	92.8	0.961	9707	28865	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.991243
Calibration curve: 1.0356 * x
Response type: Internal Std (Ref 70), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



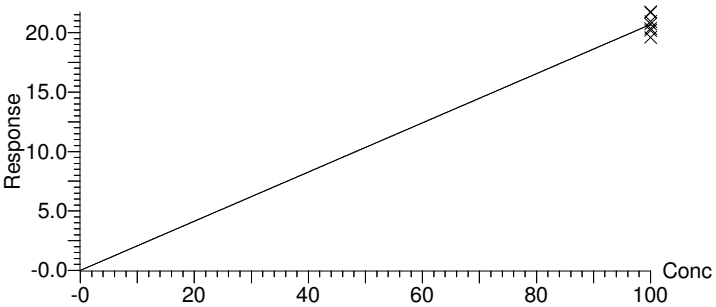
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.555	136559.891	286111.156	101.276	101.3	0.210	4770		1.02
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.567	150113.188	303154.063	97.620	97.6	0.202	7980		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.537	147771.969	298274.344	97.570	97.6	0.202	4230		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.552	152003.078	297869.031	94.725	94.7	0.196	4574		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.575	142807.422	310000.719	104.931	104.9	0.217	3921		1.08
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.585	135401.750	275379.063	98.311	98.3	0.203	4949		1.18
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.582	123363.789	268328.531	105.141	105.1	0.218	2935		1.30
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.560	115040.492	238589.266	100.252	100.3	0.207	4449		1.14
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.530	104424.445	216400.609	100.173	100.2	0.207	3305		1.03

Compound name: d3-NMeFOSA
Response Factor: 0.206874
RRF SD: 0.00711822, % Relative SD: 3.44085
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



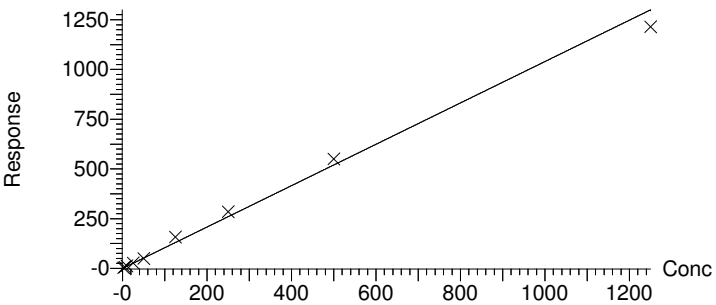
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.874	299483.688	7541.833	2.422	96.9	1.007	95041	5	0.92
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.880	302391.000	17642.271	5.610	112.2	1.167	186	15337	1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.856	299626.969	36930.836	11.853	118.5	1.233	472	64081	0.97
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.868	301551.250	83397.367	26.595	106.4	1.106	1144	13	1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.892	318224.688	160741.094	48.573	97.1	1.010	378	232751	1.01
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.892	266844.375	420811.469	151.647	121.3	1.262	1613	369	1.02
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.899	264624.906	751783.875	273.191	109.3	1.136	1980	4231	0.95
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.880	242516.234	1333932.000	528.929	105.8	1.100	7213	1522	0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.856	219804.344	2671328.250	1168.680	93.5	0.972	6703	902	0.99

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.992734
Calibration curve: 1.03991 * x
Response type: Internal Std (Ref 72), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



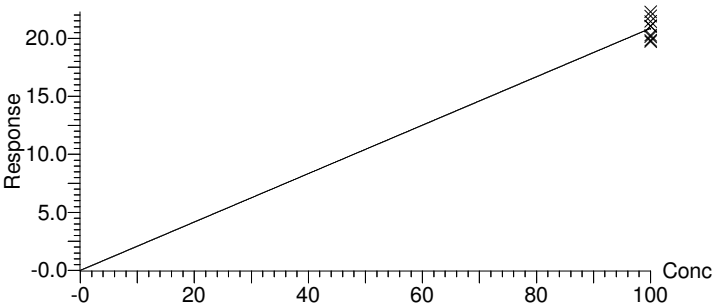
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.862	136559.891	299483.688	105.120	105.1	0.219	1032		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.874	150113.188	302391.000	96.557	96.6	0.201	2565		0.95
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.843	147771.969	299626.969	97.191	97.2	0.203	782		1.01
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.856	152003.078	301551.250	95.092	95.1	0.198	2486		1.02
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.880	142807.422	318224.688	106.812	106.8	0.223	3975		1.02
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.886	135401.750	266844.375	94.465	94.5	0.197	1147		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.886	123363.789	264624.906	102.820	102.8	0.215	506		0.96
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.868	115040.492	242516.234	101.048	101.0	0.211	422		0.97
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.843	104424.445	219804.344	100.895	100.9	0.210	1367		0.97

Compound name: d5-NEtFOSA
Response Factor: 0.208624
RRF SD: 0.00924023, % Relative SD: 4.42913
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



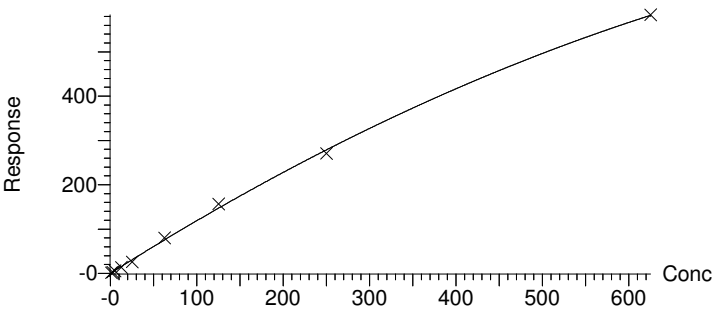
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.565	326049.063	4245.626	1.053	84.2	1.042	267		1.01
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.575	326966.313	8960.188	2.216	88.6	1.096	1033		1.06
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.548	326957.156	18639.906	4.615	92.3	1.140	1442		0.91
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.563	320719.438	45090.141	11.412	91.3	1.125	1757		1.00
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.585	348165.844	90551.609	21.193	84.8	1.040	1355		1.24
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.595	303727.563	242965.500	66.379	106.2	1.280	3096		1.45
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.595	284223.656	445118.250	133.600	106.9	1.253	12437		1.44
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.573	265769.000	719150.188	241.753	96.7	1.082	3134		1.03
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.543	235110.547	1371838.500	626.823	100.3	0.934	15739		0.97

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.997801
Calibration curve: -0.000489338 * x^2 + 1.23759 * x
Response type: Internal Std (Ref 74), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



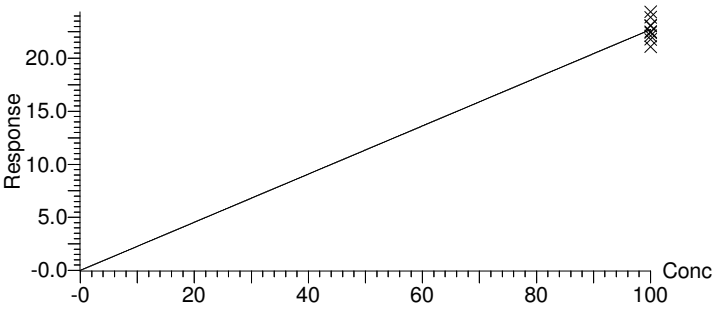
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.548	136559.891	326049.063	105.154	105.2	0.239	36421		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.558	150113.188	326966.313	95.929	95.9	0.218	15907		1.10
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.531	147771.969	326957.156	97.446	97.4	0.221	17759		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.546	152003.078	320719.438	92.926	92.9	0.211	8169		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.568	142807.422	348165.844	107.375	107.4	0.244	10030		1.10
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.575	135401.750	303727.563	98.793	98.8	0.224	5159		1.11
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.575	123363.789	284223.656	101.470	101.5	0.230	6433		1.11
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.553	115040.492	265769.000	101.747	101.7	0.231	6879		1.10
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.521	104424.445	235110.547	99.160	99.2	0.225	2074		1.02

Compound name: d7-NMeFOSE
Response Factor: 0.227056
RRF SD: 0.0102003, % Relative SD: 4.49241
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



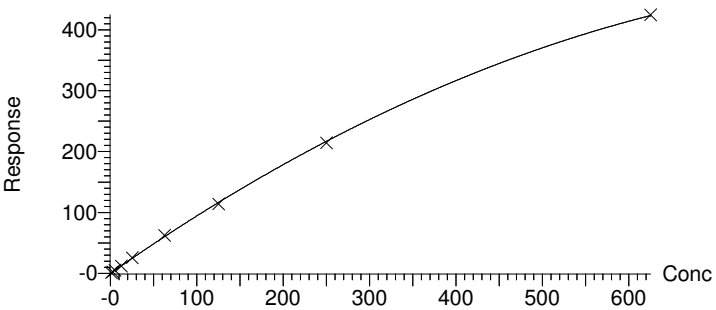
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.856	294944.281	3407.590	1.163	93.0	0.924	27		1.00
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.869	348050.469	9909.854	2.868	114.7	1.139	215		1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.844	338220.813	17859.059	5.325	106.5	1.056	793		0.98
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.857	353197.063	41807.441	11.977	95.8	0.947	519183		1.01
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.881	320608.875	83082.070	26.416	105.7	1.037	667		1.00
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.881	335078.594	209074.047	64.896	103.8	0.998	2843		1.01
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.881	330514.875	376185.375	122.058	97.6	0.911	2487		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.863	313009.406	671790.438	246.931	98.8	0.858	2458		1.04
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.838	317240.219	1346839.125	628.209	100.5	0.679	1946		1.05

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.999483
Calibration curve: -0.000507121 * x^2 + 0.994386 * x
Response type: Internal Std (Ref 76), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



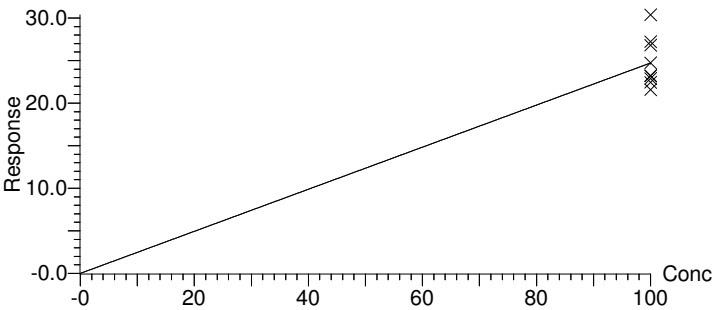
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	11.839	136559.891	294944.281	87.369	87.4	0.216	1711		0.99
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	11.851	150113.188	348050.469	93.791	93.8	0.232	4267		1.00
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	11.826	147771.969	338220.813	92.587	92.6	0.229	1505		0.96
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	11.839	152003.078	353197.063	93.995	94.0	0.232	7608		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	11.863	142807.422	320608.875	90.816	90.8	0.225	3107		0.97
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	11.863	135401.750	335078.594	100.106	100.1	0.247	9198		0.99
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	11.863	123363.789	330514.875	108.378	108.4	0.268	3766		1.00
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	11.845	115040.492	313009.406	110.064	110.1	0.272	882		1.01
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	11.820	104424.445	317240.219	122.893	122.9	0.304	6949		0.98

Compound name: d9-NEtFOSE
Response Factor: 0.247207
RRF SD: 0.0285765, % Relative SD: 11.5597
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



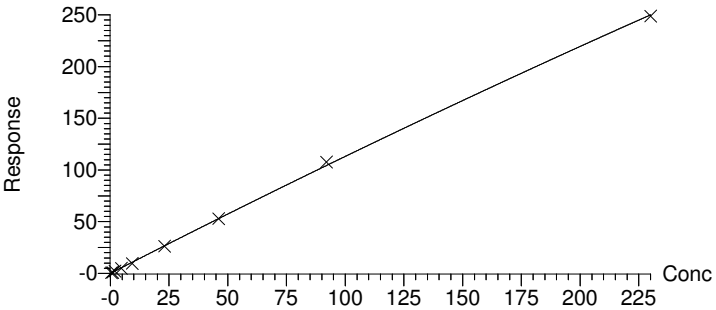
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFPrS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	3.606	30914.898	1572.824	0.407	88.5	1.031	1266	118	0.69
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	3.606	33730.434	3436.467	0.815	88.6	1.032	640	950	0.74
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	3.609	32362.510	7148.822	1.767	96.1	1.119	37717	546	0.71
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	3.606	32735.057	17203.275	4.208	91.5	1.065	14318	1707	0.69
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	3.606	33695.297	34960.637	8.318	90.4	1.051	31984	12320	0.68
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	3.602	32123.402	90440.680	22.665	98.5	1.141	18490	20245	0.75
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	3.606	30360.742	172344.672	46.014	100.0	1.150	60586	16967	0.67
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	3.604	28440.494	328732.344	95.071	103.3	1.171	74713	48212	0.67
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	3.604	28074.352	749477.125	228.745	99.5	1.082	358123	64765	0.61

Compound name: PFPrS
Coefficient of Determination: R^2 = 0.999326
Calibration curve: -0.00033968 * x^2 + 1.16541 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



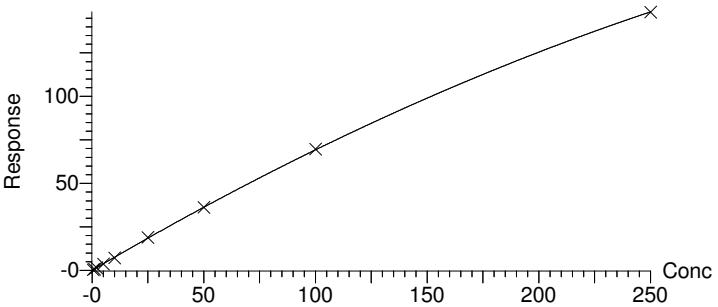
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFMPA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	3.598	83131.773	3031.125	0.481	96.1	0.729	2425		0.80
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	3.598	90745.328	6533.354	0.950	95.0	0.720	2269		0.83
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	3.598	87759.445	13633.266	2.051	102.5	0.777	33910		0.82
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	3.595	88564.953	32118.834	4.799	96.0	0.725	72752		0.81
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	3.595	89276.781	64489.867	9.599	96.0	0.722	6972		0.80
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	3.593	88029.617	166289.875	25.455	101.8	0.756	84903		0.85
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	3.595	85246.242	309022.938	49.931	99.9	0.725	103180		0.79
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	3.593	82833.945	576750.000	100.506	100.5	0.696	296456		0.79
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	3.591	89480.016	1328709.375	249.685	99.9	0.594	112577		0.74

Compound name: PFMPA
Coefficient of Determination: R^2 = 0.999877
Calibration curve: -0.00065726 * x^2 + 0.758827 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



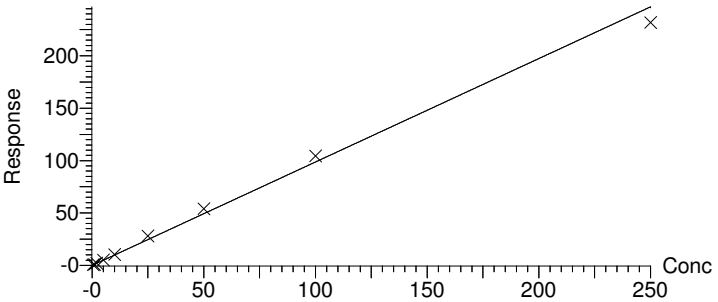
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFMBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.820	89670.125	4841.859	0.547	109.4	1.080	612		0.95
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.820	95897.688	9974.705	1.053	105.3	1.040	1382		0.91
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.824	94071.445	20906.674	2.251	112.5	1.111	2247		0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.828	93058.852	48877.242	5.320	106.4	1.050	4589		0.92
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.824	95876.742	98753.211	10.432	104.3	1.030	14163		0.91
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.828	91930.250	257080.141	28.323	113.3	1.119	29599		0.91
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.828	87845.992	475429.406	54.815	109.6	1.082	27711		0.89
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.824	84811.805	886080.750	105.816	105.8	1.045	84164		0.91
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.812	86346.578	2002964.625	234.943	94.0	0.928	190932		0.92

Compound name: PFMBA
Coefficient of Determination: R^2 = 0.994718
Calibration curve: 0.987338 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



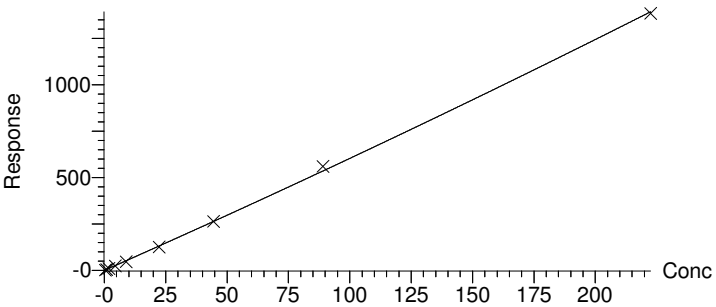
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: PFEESA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.478	30344.182	7849.370	0.419	94.1	5.511	5289	6161	0.93
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.483	34840.234	16468.820	0.765	86.0	5.035	1930	15372	0.95
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.495	33197.438	34211.285	1.668	93.7	5.488	6806	140	0.89
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.491	33300.699	82224.531	3.994	89.7	5.260	5170	285	0.94
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.487	34096.219	165273.000	7.831	88.0	5.163	33469	645	0.95
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.487	32890.145	435425.063	21.298	95.7	5.641	16876	5560	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.491	29299.664	815789.750	44.469	99.9	5.931	97273	6772	0.88
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.491	25713.482	1522440.000	93.154	104.7	6.307	109809	4785	0.92
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.470	24097.566	3518998.000	221.096	99.4	6.222	82594	24321	0.92

Compound name: PFEESA
Coefficient of Determination: R^2 = 0.998866
Calibration curve: 0.00184482 * x^2 + 5.85355 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



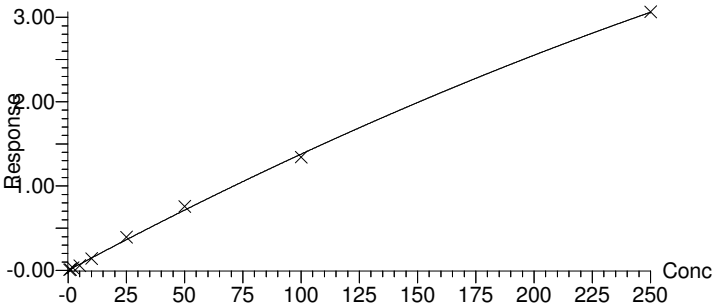
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: NFDHA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.747	129630.148	75.634	0.394	78.8	0.012	8		1.12
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.751	138426.297	158.537	0.774	77.4	0.011	2223		1.03
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.759	135277.344	415.065	2.075	103.7	0.015	138		1.17
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.755	134110.688	747.415	3.773	75.5	0.011	839	23	1.06
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.759	139504.719	1962.077	9.560	95.6	0.014	27849	3	0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.755	131542.578	5187.841	27.140	108.6	0.016	3	967	0.95
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.759	126140.586	9565.171	53.161	106.3	0.015	1209	20	0.98
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.759	119056.797	15968.914	97.106	97.1	0.013	1259	9	1.00
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.731	115416.570	35377.512	250.492	100.2	0.012	1762	25	1.13

Compound name: NFDHA
Coefficient of Determination: R^2 = 0.997573
Calibration curve: -1.02738e-005 * x^2 + 0.0148102 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



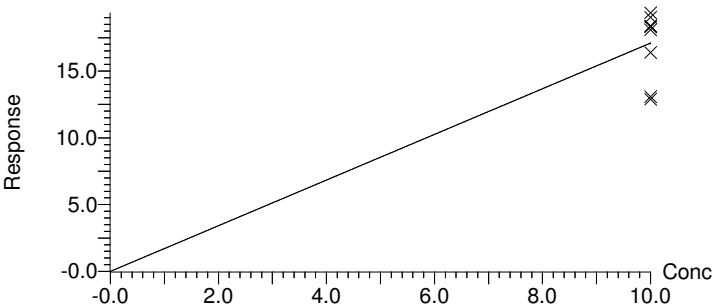
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M3PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	5.119	71397.852	93371.922	7.649	76.5	1.308	23444		0.93
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	5.116	79027.422	150368.219	11.129	111.3	1.903	26710		0.96
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	5.119	77088.703	149240.484	11.323	113.2	1.936	22164		0.94
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	5.124	81076.422	148444.828	10.709	107.1	1.831	13456		0.93
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	5.119	77371.656	99717.336	7.538	75.4	1.289	18816		0.94
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	5.121	76834.391	141232.125	10.751	107.5	1.838	57645		0.94
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	5.124	74245.555	136351.313	10.741	107.4	1.836	16458		0.93
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	5.119	74050.750	133876.641	10.574	105.7	1.808	22748		0.95
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	5.114	79147.242	129702.203	9.585	95.8	1.639	27930		0.90

Compound name: M3PFPeA
Response Factor: 1.70972
RRF SD: 0.247259, % Relative SD: 14.462
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



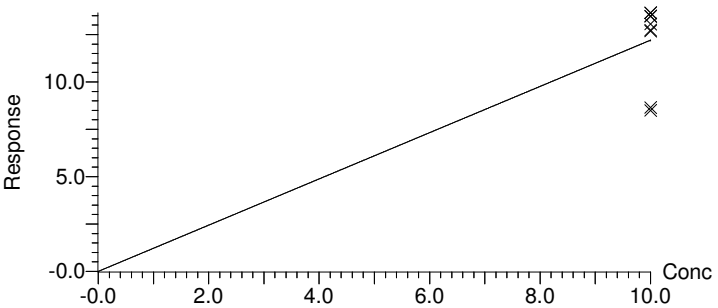
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M2PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	6.970	147122.797	127163.461	7.080	70.8	0.864	18414		0.91
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	6.974	156924.313	214078.047	11.175	111.8	1.364	12649		0.94
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	6.987	155094.984	208887.625	11.033	110.3	1.347	26762		0.92
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	6.979	161129.109	204318.781	10.388	103.9	1.268	11358		0.99
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	6.983	158026.125	134384.516	6.966	69.7	0.850	5525		0.92
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	6.978	149443.000	195142.391	10.697	107.0	1.306	14419		1.03
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	6.983	139965.547	188673.172	11.043	110.4	1.348	9005		0.99
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	6.983	134914.188	184153.609	11.182	111.8	1.365	15856		0.98
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	6.952	133475.219	170041.969	10.436	104.4	1.274	4577		0.96

Compound name: M2PFHxA
Response Factor: 1.22073
RRF SD: 0.209155, % Relative SD: 17.1336
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



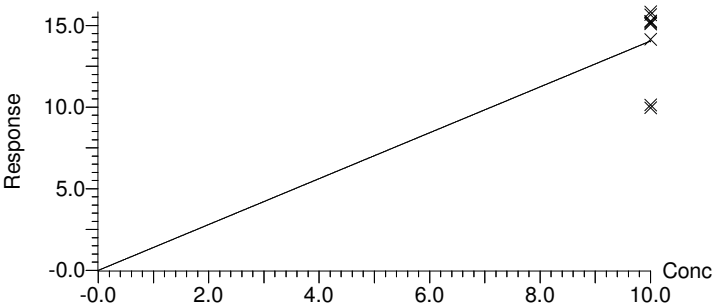
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 13:36:43 Eastern Standard Time
Printed: Monday, February 12, 2024 13:44:38 Eastern Standard Time

Compound name: M4PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	W01_240210_21	IA537STD-.5	10-Feb-24	16:13:31	9.177	147122.797	148992.734	7.205	72.1	1.013	10364		0.99
2	W01_240210_22	IA537STD-1	10-Feb-24	16:30:05	9.185	156924.313	248589.047	11.271	112.7	1.584	30235		1.02
3	W01_240210_23	IA537STD-2	10-Feb-24	16:46:39	9.181	155094.984	242983.328	11.147	111.5	1.567	10619		0.95
4	W01_240210_24	IA537STD-5	10-Feb-24	17:03:10	9.173	161129.109	245340.047	10.834	108.3	1.523	19656		0.98
5	W01_240210_25	IA537STD-10	10-Feb-24	17:19:44	9.181	158026.125	157485.359	7.091	70.9	0.997	11621		0.98
6	W01_240210_26	IA537STD-25	10-Feb-24	17:36:15	9.219	149443.000	226394.859	10.779	107.8	1.515	12228		0.96
7	W01_240210_27	IA537STD-50	10-Feb-24	17:52:55	9.223	139965.547	213725.719	10.865	108.6	1.527	8626		1.04
8	W01_240210_28	IA537STD-100	10-Feb-24	18:09:26	9.173	134914.188	203611.891	10.738	107.4	1.509	7054		0.99
9	W01_240210_29	IA537STD-250	10-Feb-24	18:26:00	9.116	133475.219	188932.172	10.071	100.7	1.415	18510		0.93

Compound name: M4PFOA
Response Factor: 1.40548
RRF SD: 0.232027, % Relative SD: 16.5088
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

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ID: IA537STD-.5
Name: W01_240210_21
Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	3720		0.494		na	98.8
2	M3PFBA	INT STD	2.24	216.009 > 171.999	71398		9.310		na	93.1
3	MPFBA	INT STD	2.24	217.001 > 171.999	83132		10.233		na	102.3
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	4494		0.496		na	99.1
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	89670		10.571		na	105.7
6	PFBS	375-73-5	5.75	299.092 > 80.062	1535		0.448	1.86	NO	101.0
7	M3PFBS	INT STD	5.75	302.069 > 80.062	30915		9.411		na	101.0
8	4:2FTS	757124-72-4	6.89	327.146 > 307.139	442		0.463	2.19	NO	98.9
9	M2-4:2FTS	INT STD	6.88	329.13 > 309.124	8502		8.783		na	93.6
10	PFHxA	307-24-4	6.97	313.047 > 269.037	6196		0.503	12.72	NO	100.7
11	M5PFHxA	INT STD	6.97	318.009 > 273.007	129630		10.064		na	100.6
12	PFPeS	2706-91-4	7.28	349.1 > 80.062	1580		0.455	1.55	NO	96.8
13	PFHpA	375-85-9	8.23	363.055 > 319.045	7096		0.504	4.58	NO	100.8
14	M4PFHpA	INT STD	8.23	367.025 > 322.022	140188		10.229		na	102.3
15	br-PFHxS	355-46-4	8.15	399.107 > 80.062	236	M5,M7	0.071	1.71	NO	82.3
16	L-PFHxS	355-46-4	8.38	399.107 > 80.062	1182	M7	0.339	1.39	NO	91.4
17	PFHxS	355-46-4		399.107 > 80.062	1417		0.410		na	
18	M3PFHxS	INT STD	8.38	402.084 > 80.062	30344		9.604		na	101.3
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.18	413.063 > 369.053	8307		0.526	11.54	NO	105.3
21	PFOA	335-67-1		413.063 > 369.053	8307		0.526		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	153515		10.309		na	103.1
23	M2PFOA	INT STD	9.18	415.048 > 370.045	147123		9.910		na	99.1
24	6:2FTS	27619-97-2	9.14	427.161 > 407.155	381		0.435	4.02	NO	91.5
25	M2-6:2FTS	INT STD	9.13	429.146 > 409.14	9632		8.661		na	91.1
26	PFHpS	375-92-8	9.27	449.115 > 80.062	1694		0.504	1.49	NO	105.8
27	PFNA	375-95-1	9.95	463.071 > 419.061	8441		0.531	6.72	NO	106.2
28	M9PFNA	INT STD	9.95	472.002 > 427.	157800		10.200		na	102.0
29	br-PFOS	1763-23-1	9.81	499.123 > 80.062	361	M5,M7	0.078	3.05	NO	79.6
30	L-PFOS	1763-23-1	10.00	499.123 > 80.062	1526		0.374	1.62	NO	102.2
31	PFOS	1763-23-1		499.123 > 80.062	1886		0.452		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	34584		9.338		na	97.3
33	M8PFOS	INT STD	10.00	507.062 > 80.062	36315		9.843		na	102.6
34	PFDA	335-76-2	10.60	513.078 > 469.069	6688		0.481	4.95	NO	96.1
35	M2PFDA	INT STD	10.60	515.063 > 470.061	136560		10.178		na	101.8
36	M6PFDA	INT STD	10.60	519.033 > 474.03	143001		10.503		na	105.0
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	472		0.505	2.88	NO	105.3
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	10722		9.118		na	95.0
39	PFNS	68259-12-1	10.63	549.131 > 80.062	1535		0.379	1.87	NO	78.7

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Name: W01_240210_21
Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	19699		9.420		na	94.2
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	55	M5,M7	0.095	1.03	NO	79.2
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	629		0.465	3.04	NO	122.3
43	NMeFOSAA	2355-31-9		570.202 > 419.061	684		0.560		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	8142		0.488	6.05	NO	97.6
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	160545		10.823		na	108.2
46	PFDS	335-77-3	11.17	598.926 > 80.062	1641		0.449	1.76	NO	93.0
47	FOSA	754-91-6	10.94	498.146 > 78.07	5577	M7	0.538	112.35	YES	107.7
48	M8FOSA	INT STD	10.94	506.077 > 78.07	93562		9.346		na	93.5
49	d5-NEtFOSAA	INT STD	11.27	589.259 > 419.061	17228		8.741		na	87.4
50	br-NEtFOSAA	2991-50-6	11.12	584.229 > 419.061	77	M5,M7	0.118	0.87	NO	104.7
51	L-NEtFOSAA	2991-50-6	11.28	584.229 > 419.061	614		0.442	1.30	NO	114.0
52	NEtFOSAA	2991-50-6		584.229 > 419.061	691		0.560		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	7663		0.449	8.76	NO	89.7
54	MPFDOA	INT STD	11.65	615.079 > 570.077	157364		9.452		na	94.5
55	PFTrDA	72629-94-8	12.08	663.102 > 619.092	5618		0.484	15.41	YES	96.8
56	PFTA	376-06-7	12.45	713.11 > 669.1	7775		0.480	20.35	NO	95.9
57	M2PFTEDA	INT STD	12.45	715.094 > 670.092	145638		9.700		na	97.0
58	M3HFPO-DA	INT STD	7.39	287.02 > 169.022	202866		242.731		na	121.4
59	HFPO-DA	13252-13-6	7.39	285.035 > 169.022	3100	M7	4.108	77.78	YES	82.2
60	ADONA	958445-44-8	8.40	377.06 > 251.028	8459	M7	0.493	137.67	YES	104.3
61	PFHxDA		12.83	813.122 > 769.116	15073	M7	0.562	47.84	NO	112.4
62	PFODA		13.05	913.411 > 869.131	4070		0.551	87.05	NO	110.1
63	M2PFHxDA		12.84	815.102 > 770.108	245248		10.545		na	105.5
64	PFDoS		12.07	699.154 > 80.062	1586		0.440	1.77	NO	90.9
65	M2D4-10:2FTS		11.66	633.201 > 612.189	11027		21.784		na	111.1
66	10:2FTS		11.67	627.192 > 607.186	579	M4,M7	0.672	4.16	NO	139.2
67	9CL-PF3ONS		10.36	531.096 > 351.07	4058	M7	0.427	2.24	NO	91.6
68	11CL-PFOUdS		11.44	631.096 > 451.076	3803	M4	0.416	2.72	NO	88.3
69	NMeFOSA		11.56	512.163 > 169.022	7446		2.513	1.44	NO	100.5
70	d3-NMeFOSA		11.55	515.183 > 169.022	286111		101.276		na	101.3
71	NEtFOSA		11.87	526.192 > 169.022	7542		2.422	10.64	NO	96.9
72	d5-NEtFOSA		11.86	531.222 > 169.022	299484		105.120		na	105.1
73	NMeFOSE		11.57	616 > 59	4246		1.053		na	84.2
74	d7-NMeFOSE		11.55	623 > 59	326049		105.154		na	105.2
75	NEtFOSE		11.86	630 > 59	3408		1.163		na	93.0
76	d9-NEtFOSE		11.84	639 > 59	294944		87.369		na	87.4
77	PFPrS		3.61	249.084 > 80.062	1573		0.407	3.04	NO	88.5
78	PFMPA		3.60	229.032 > 85.005	3031		0.481		na	96.1
79	PFMBA		5.82	279.042 > 85.006	4842		0.547		na	109.4
80	PFEESA		6.48	315.093 > 135.013	7849		0.419	17.47	NO	94.1
81	NFDHA		6.75	295.032 > 201.027	76		0.394		YES	78.8
82	M3PFPeA		5.12	266.017 > 222.007	93372		7.649		na	76.5

all concentration units in (ng/mL)

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Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.97	315.032 > 270.03	127163		7.080		na	70.8
84	M4PFOA		9.18	417.032 > 372.03	148993		7.205		na	72.1

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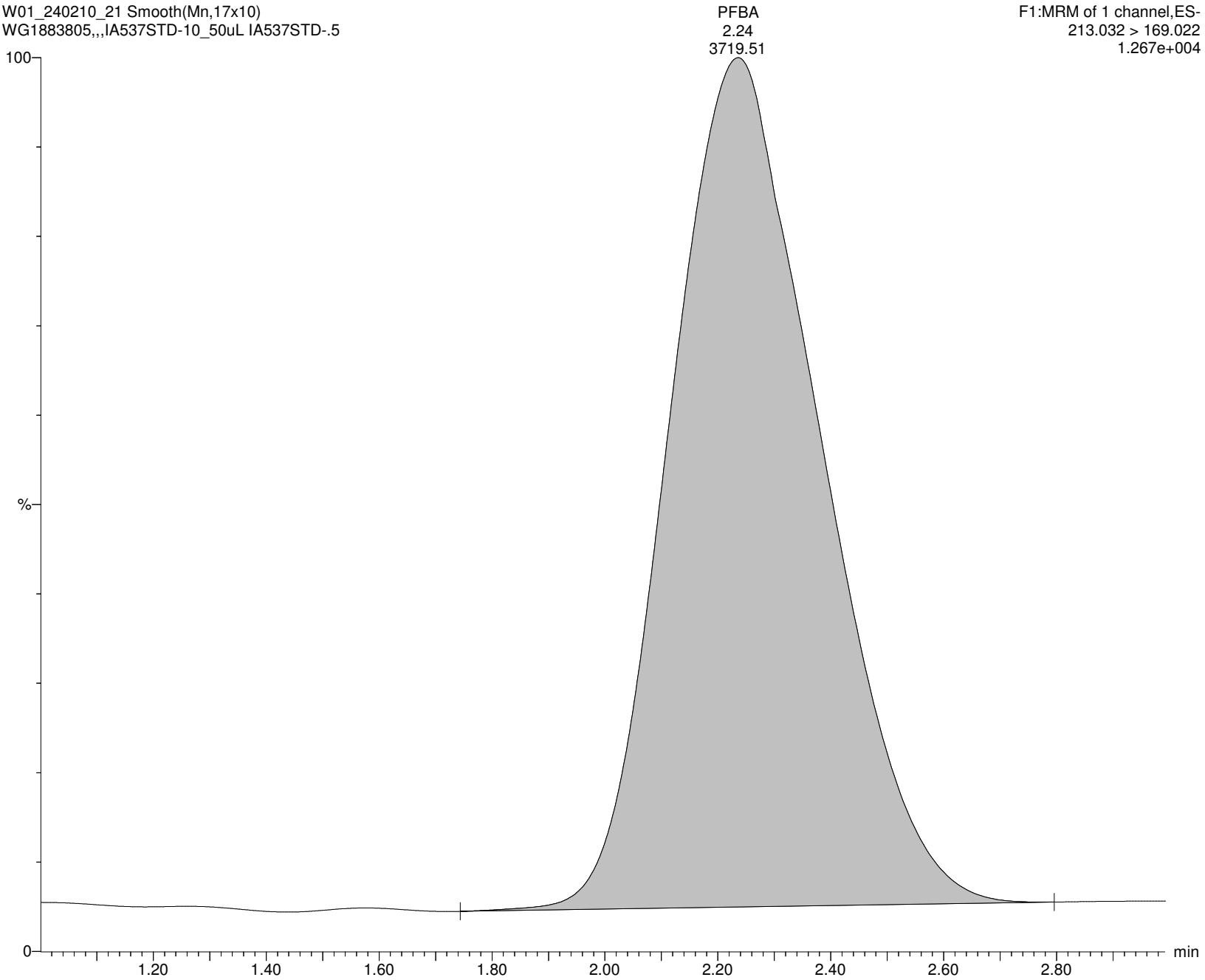

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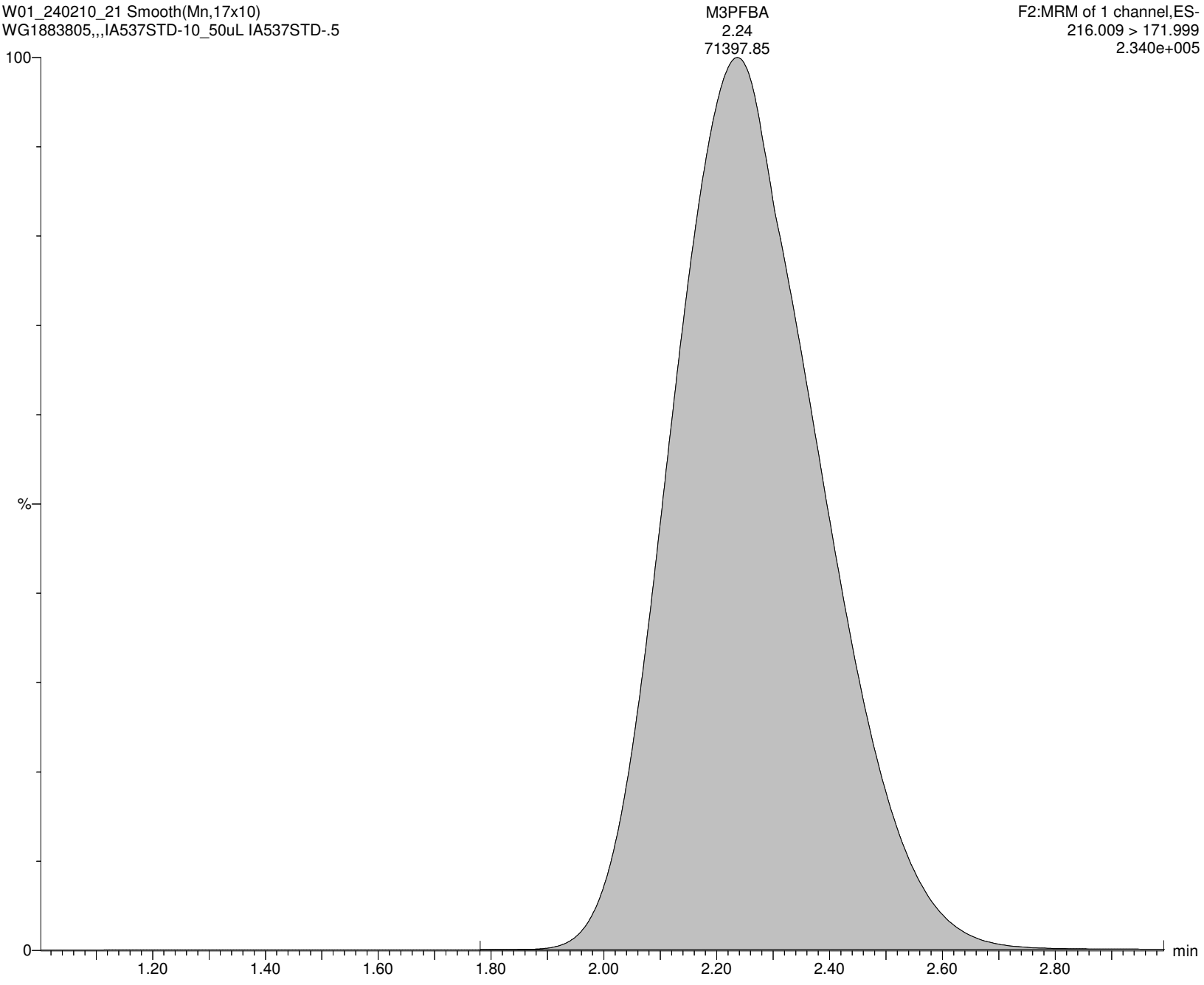

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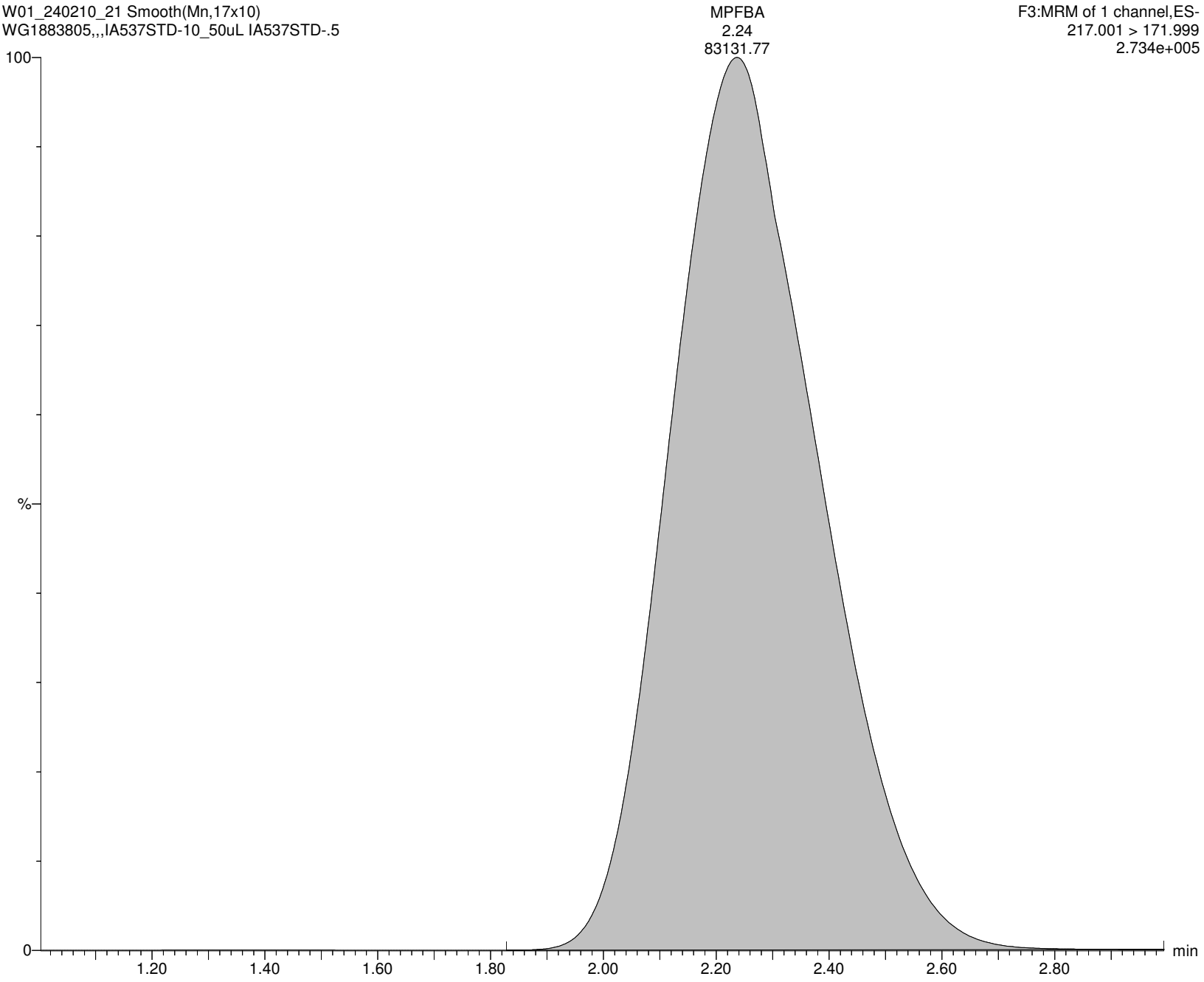

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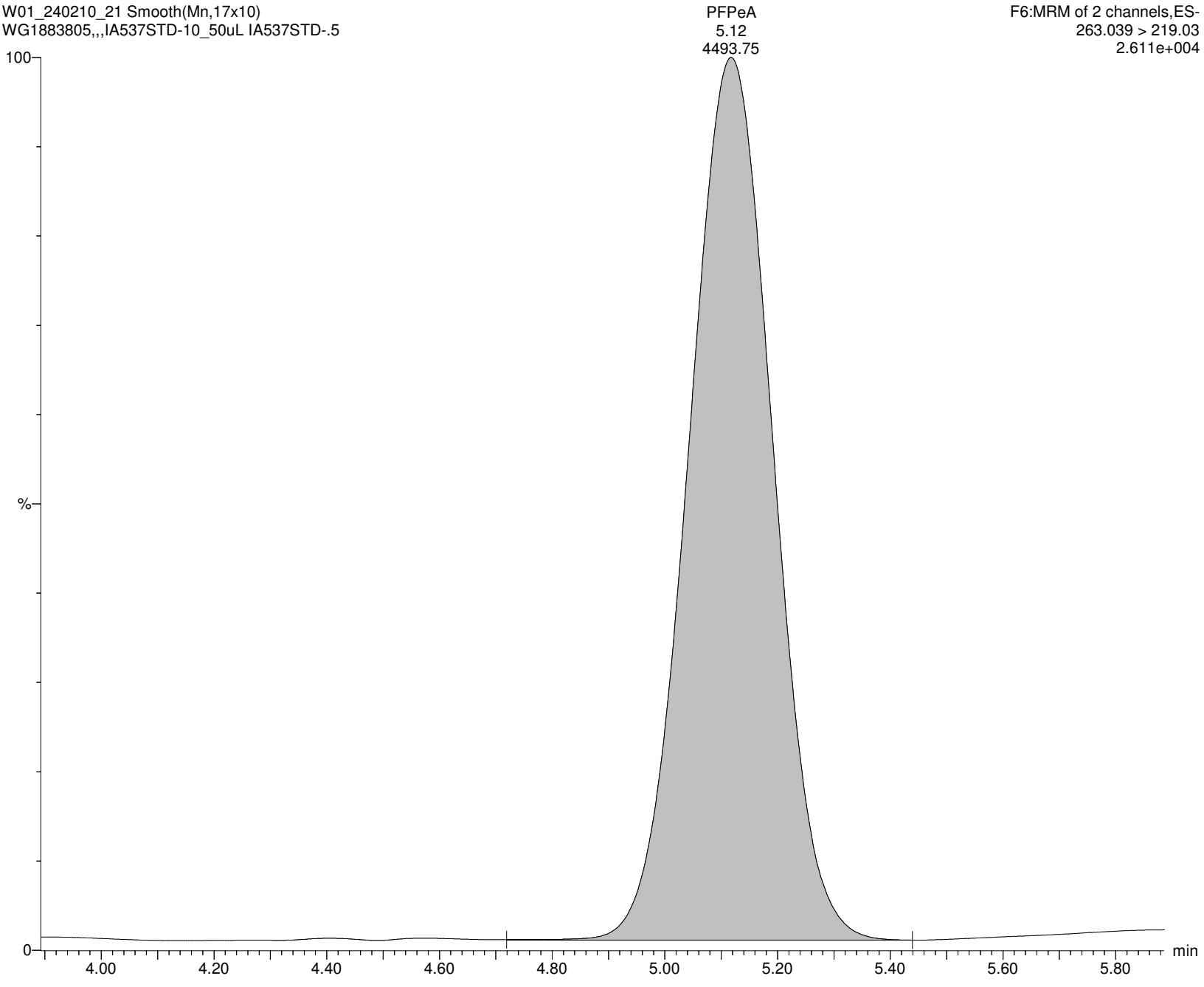

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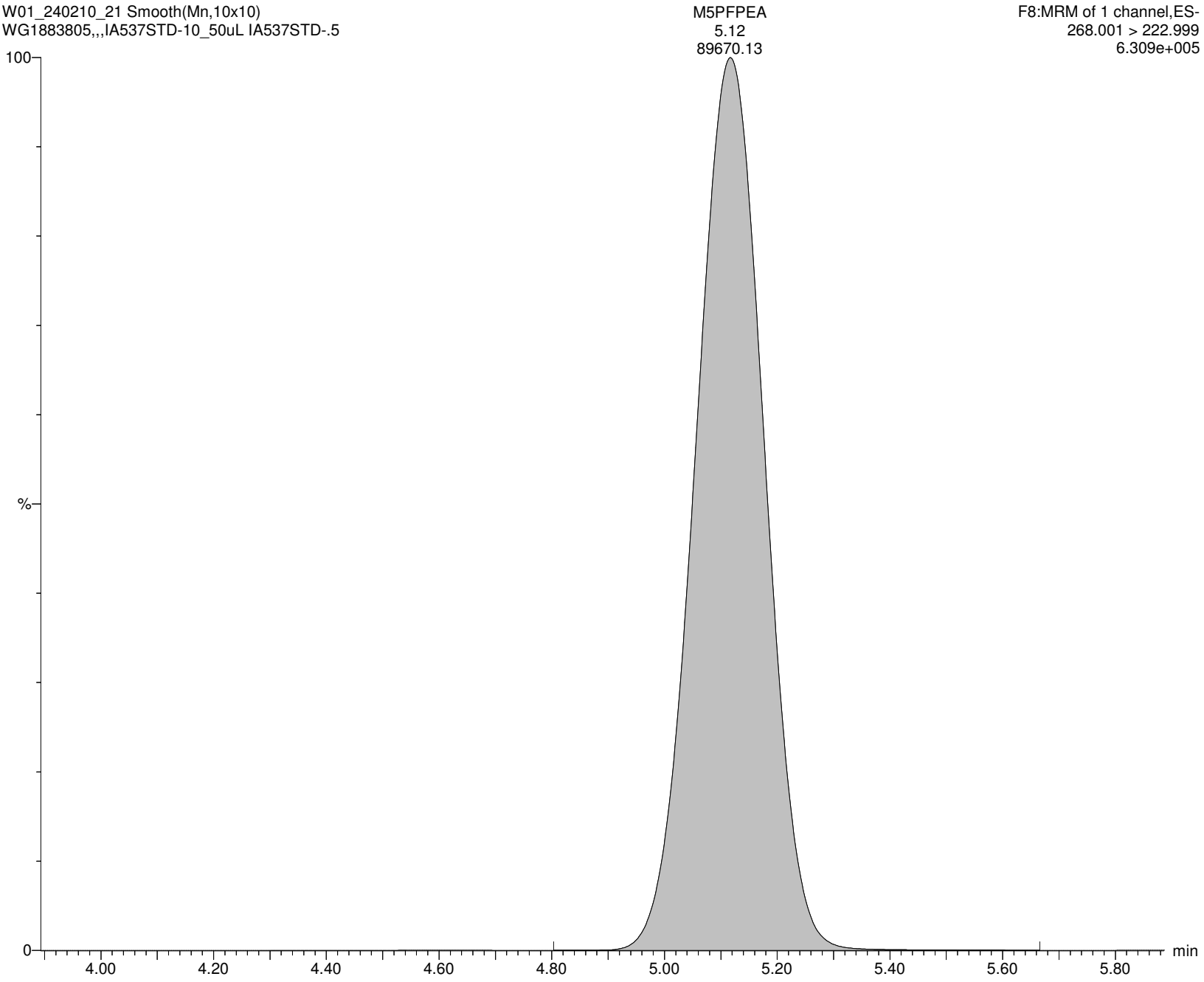

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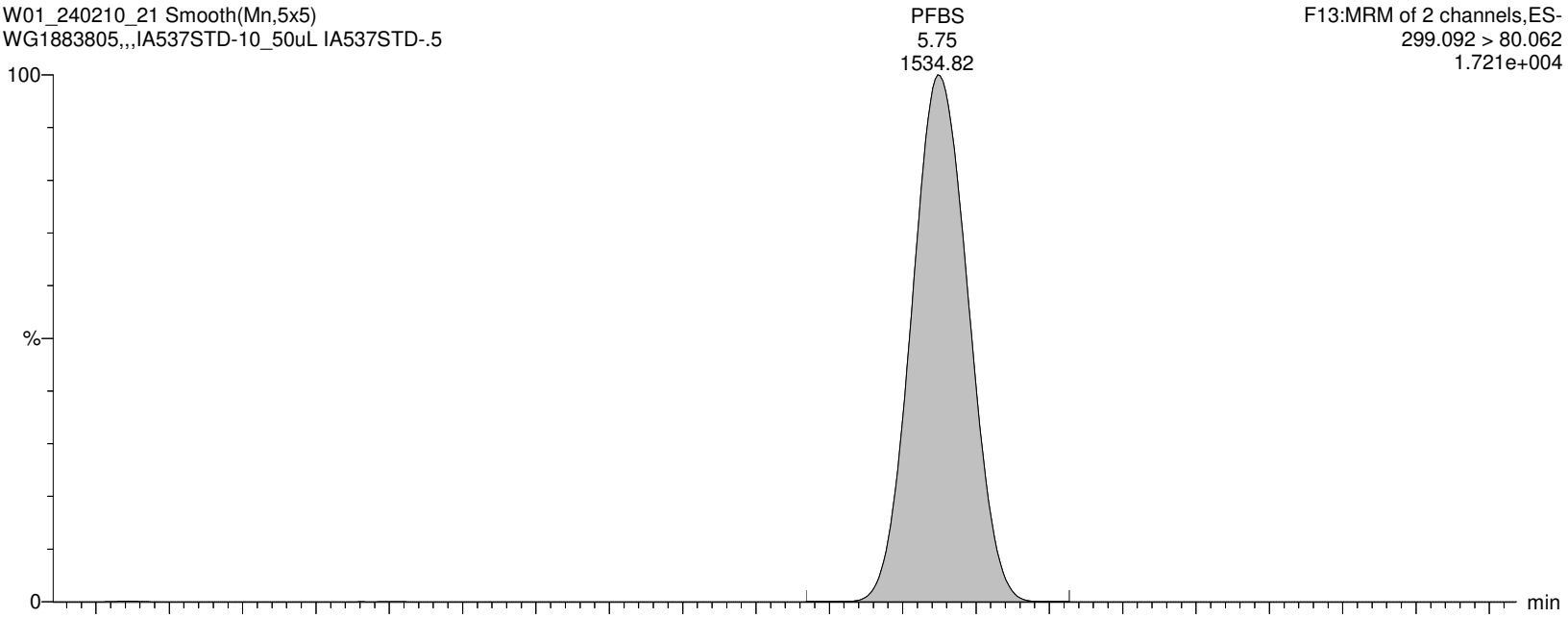

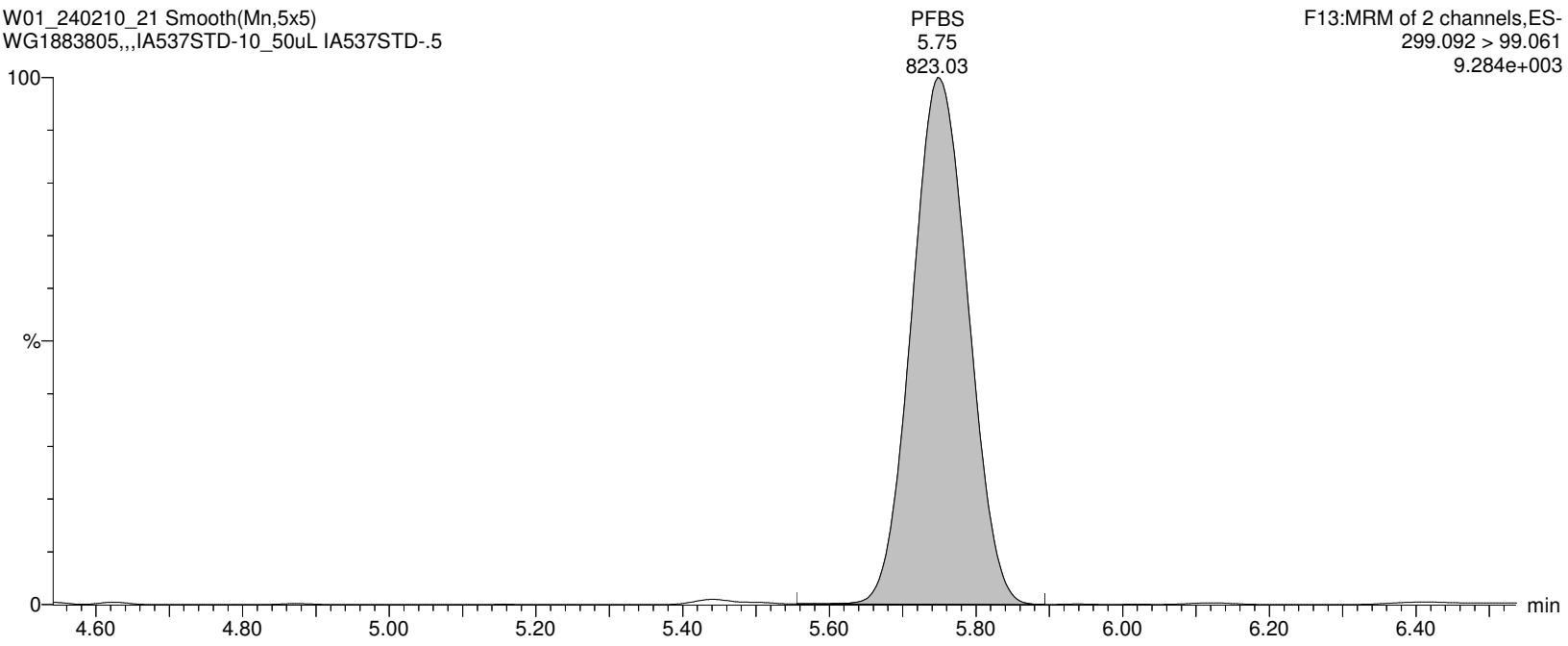

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:08 Eastern Standard Time

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ID: IA537STD-.5
Date: 10-Feb-2024
Time: 16:13:31
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User: LCMS01:SG
Vial: 1:B,1
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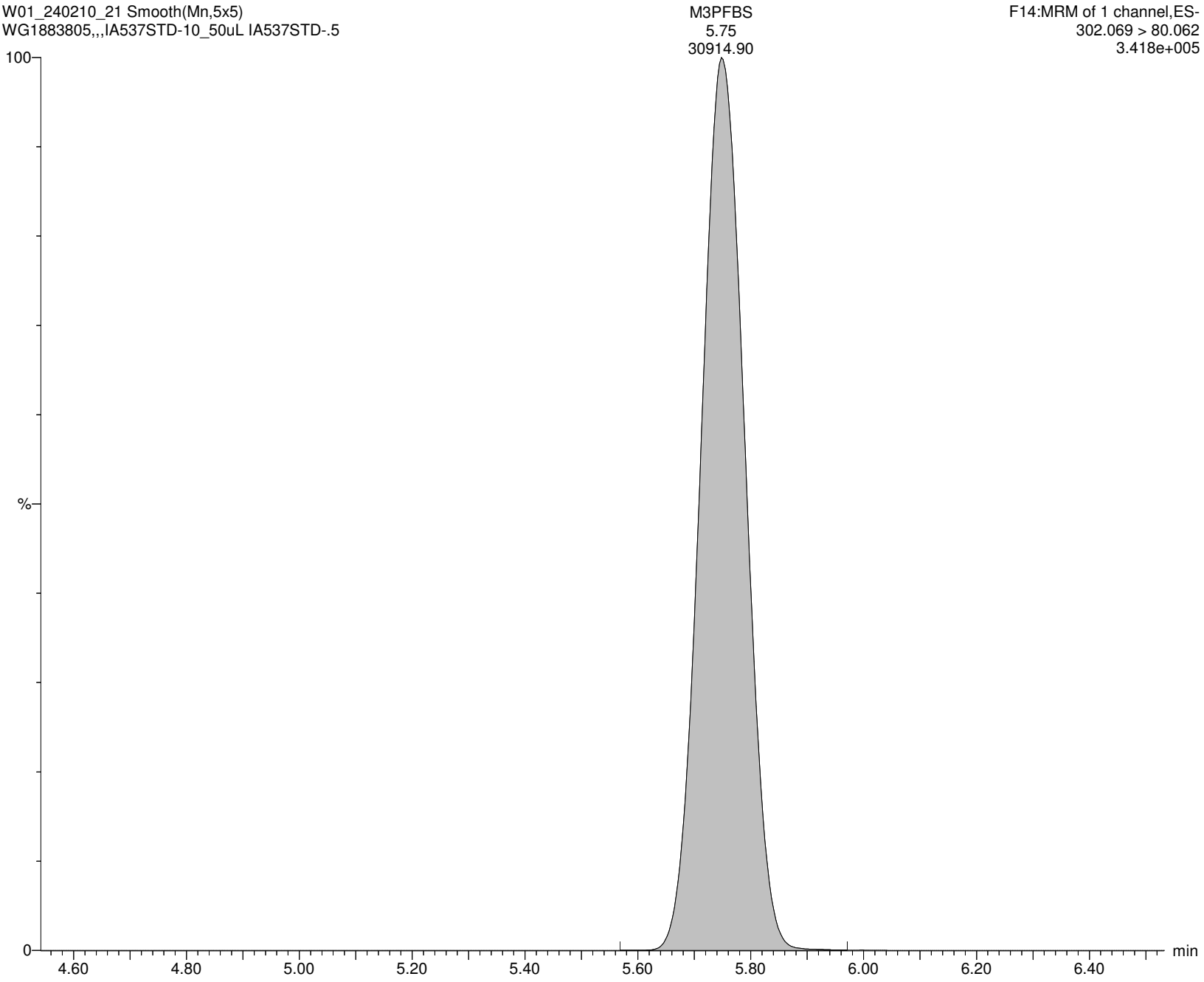
M3PFBS



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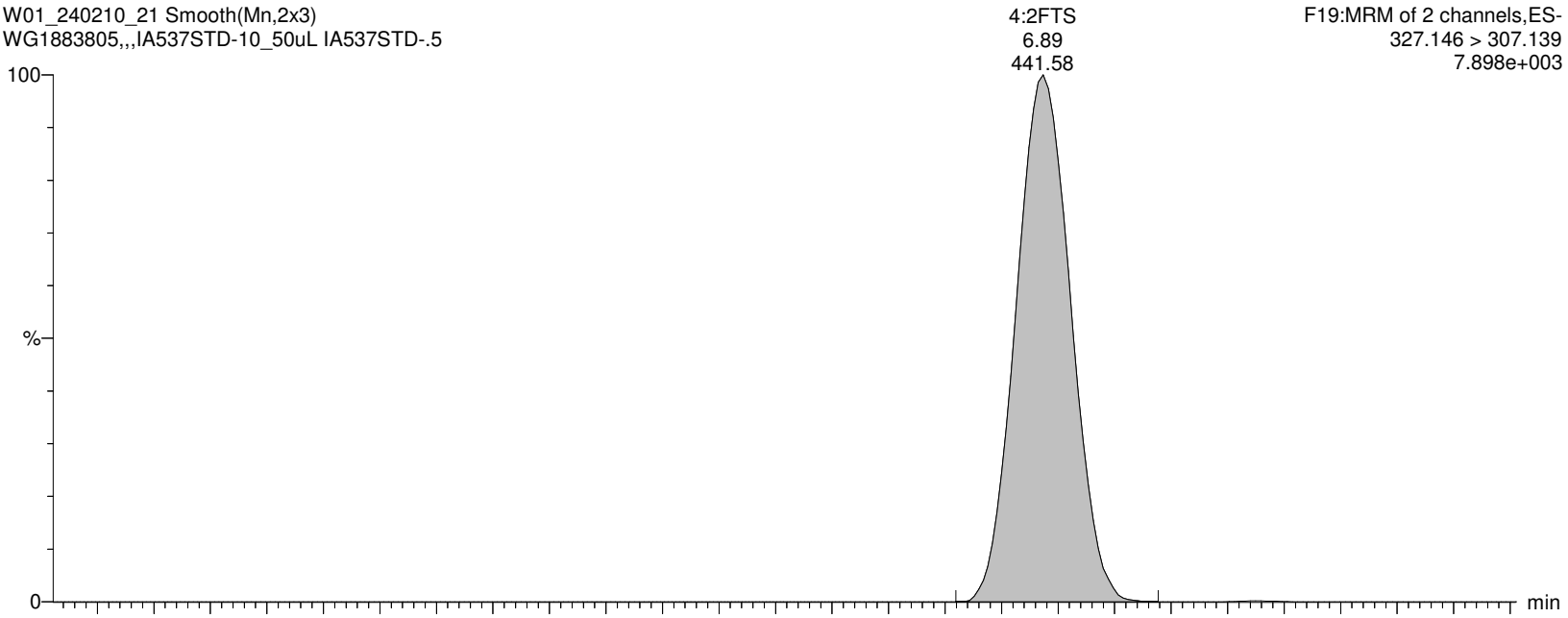
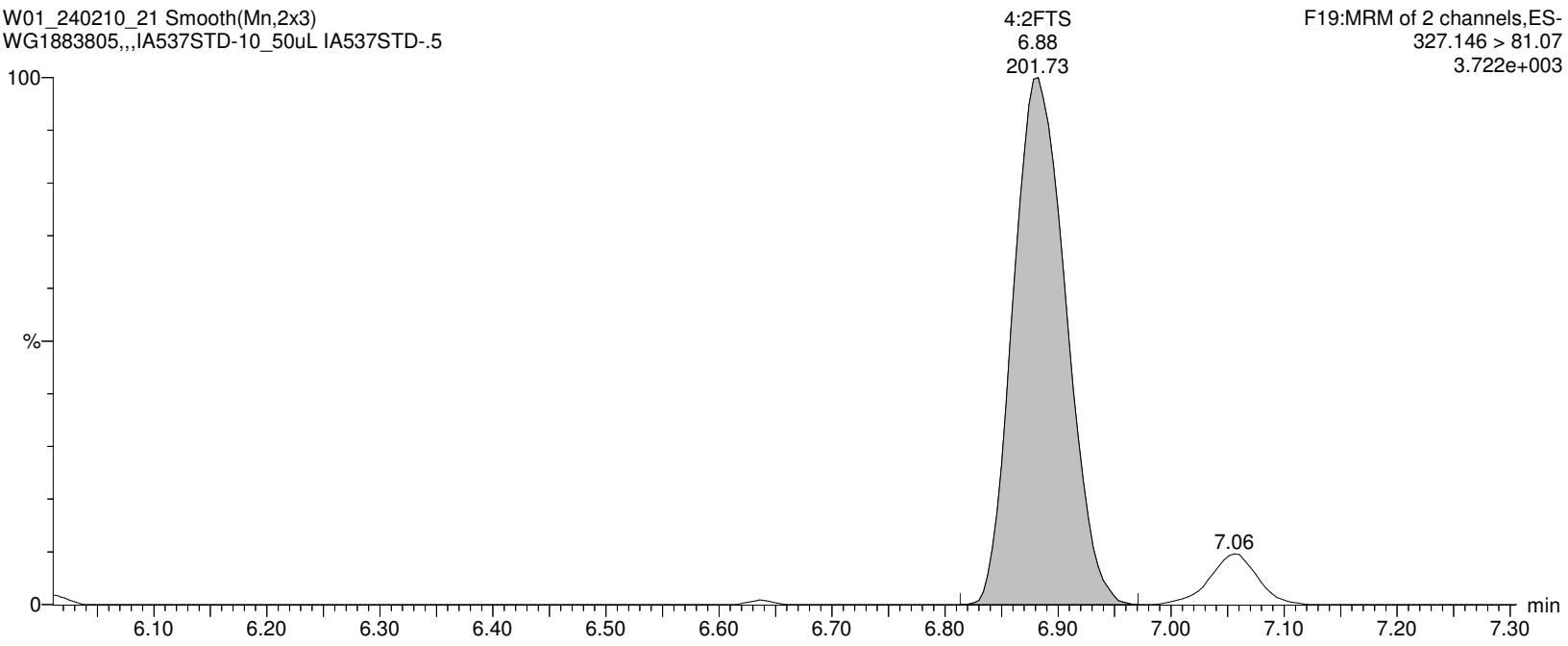
4:2FTS





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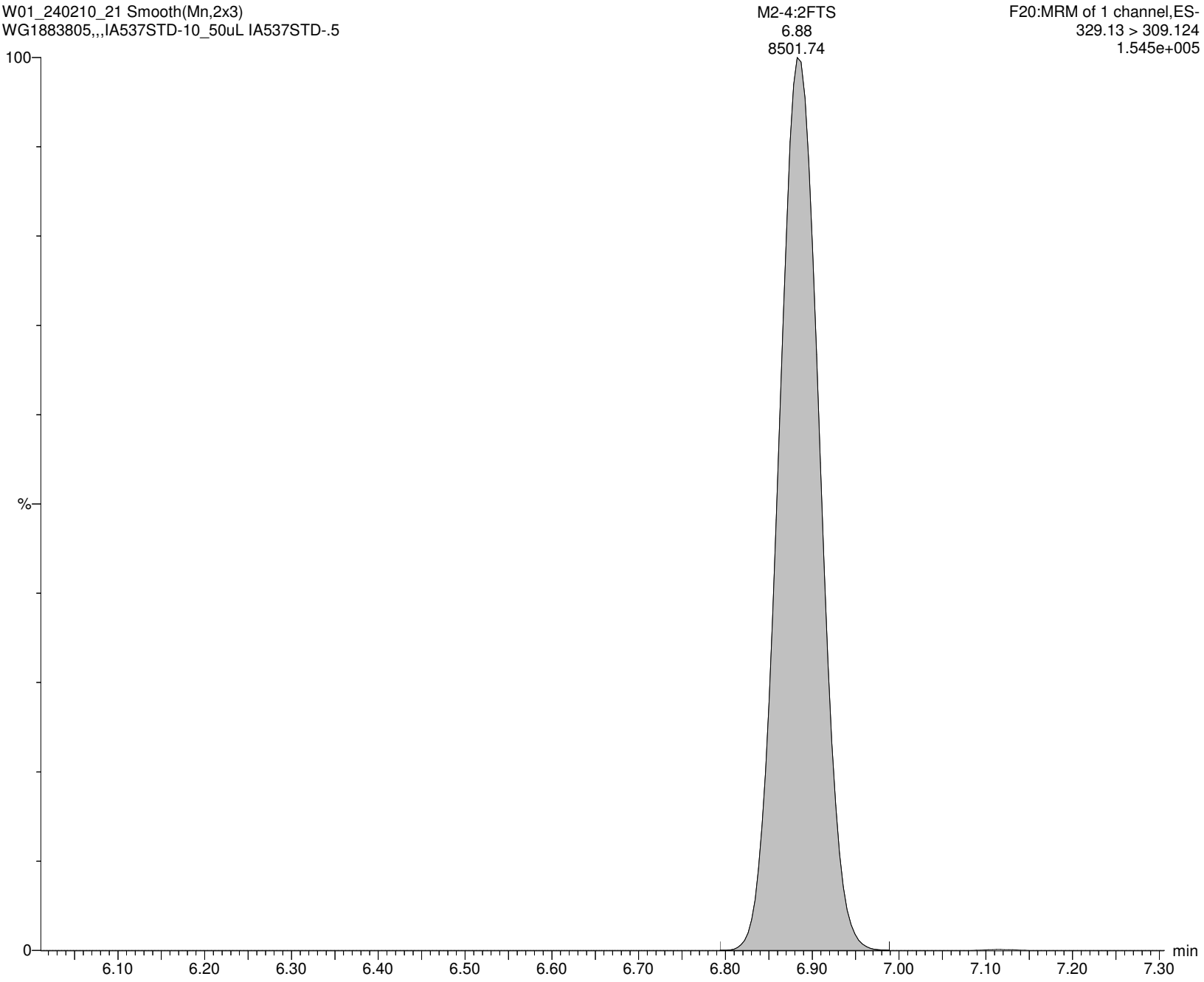

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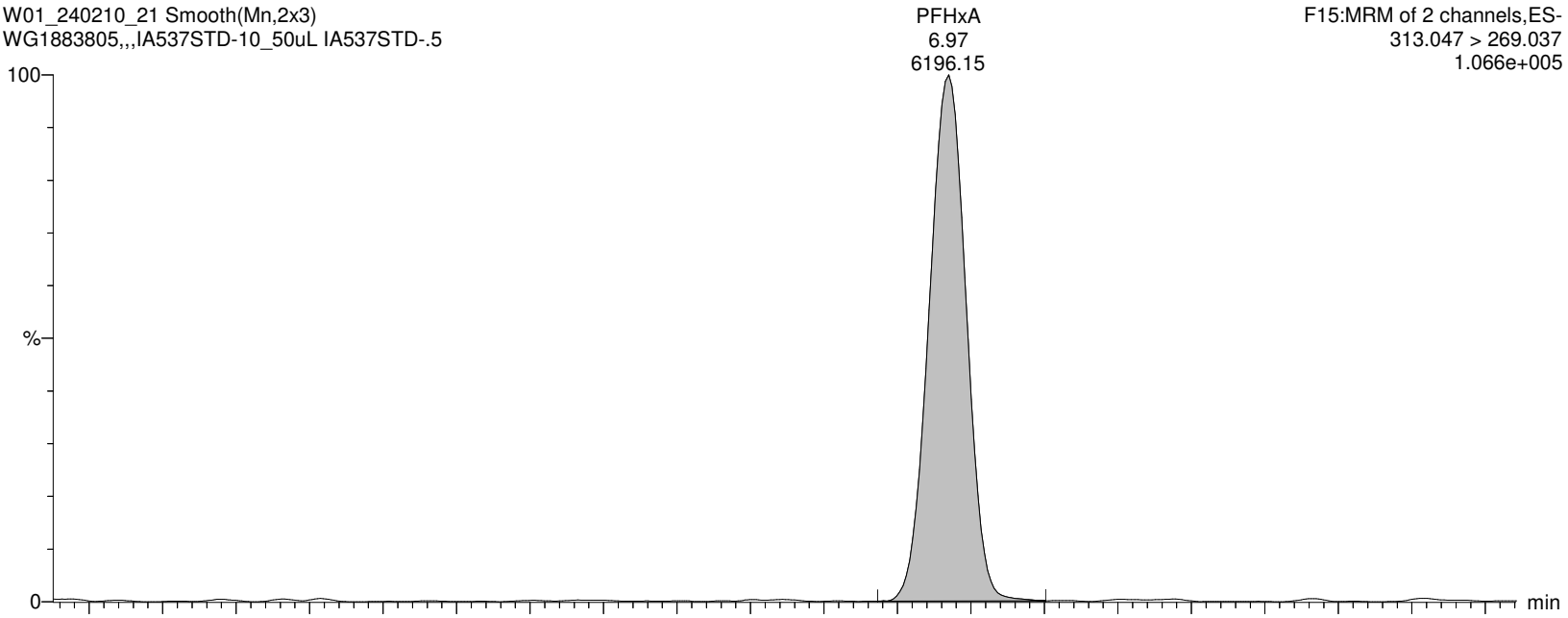
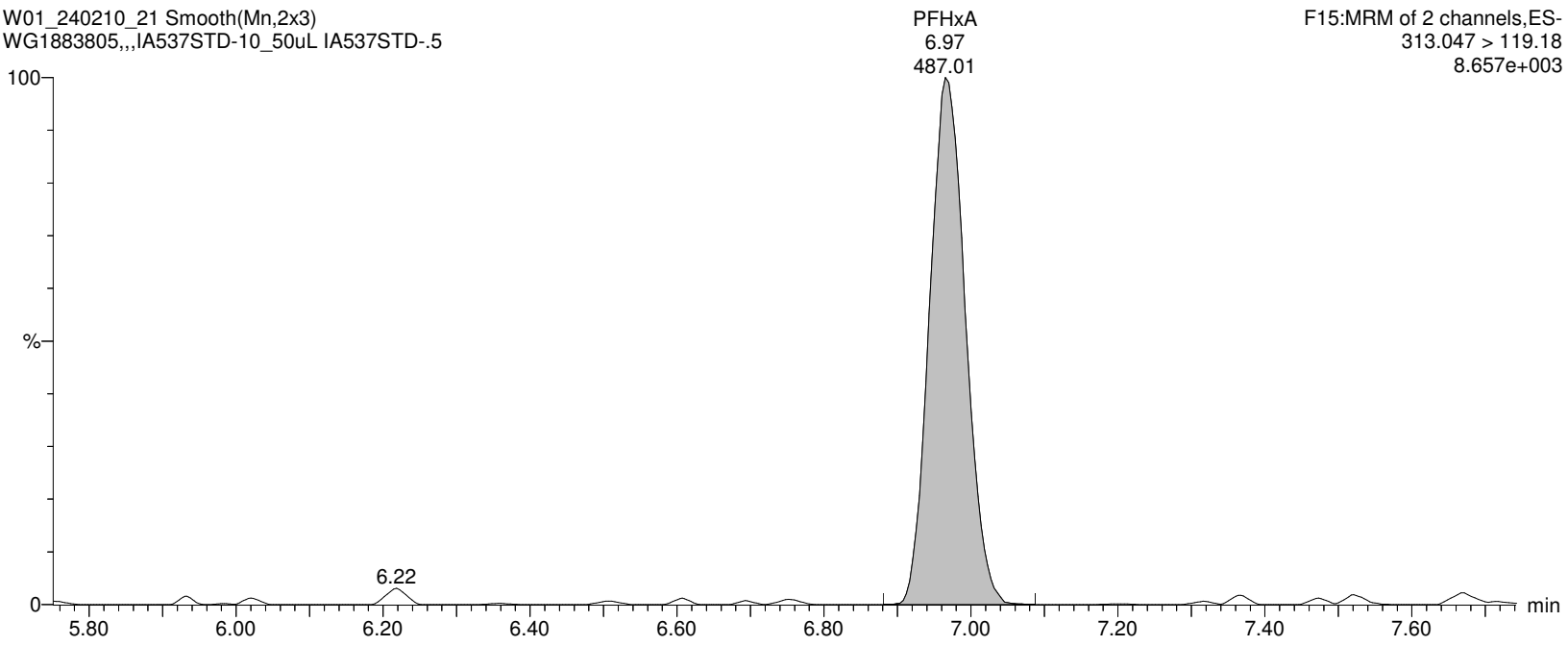
PFHxA





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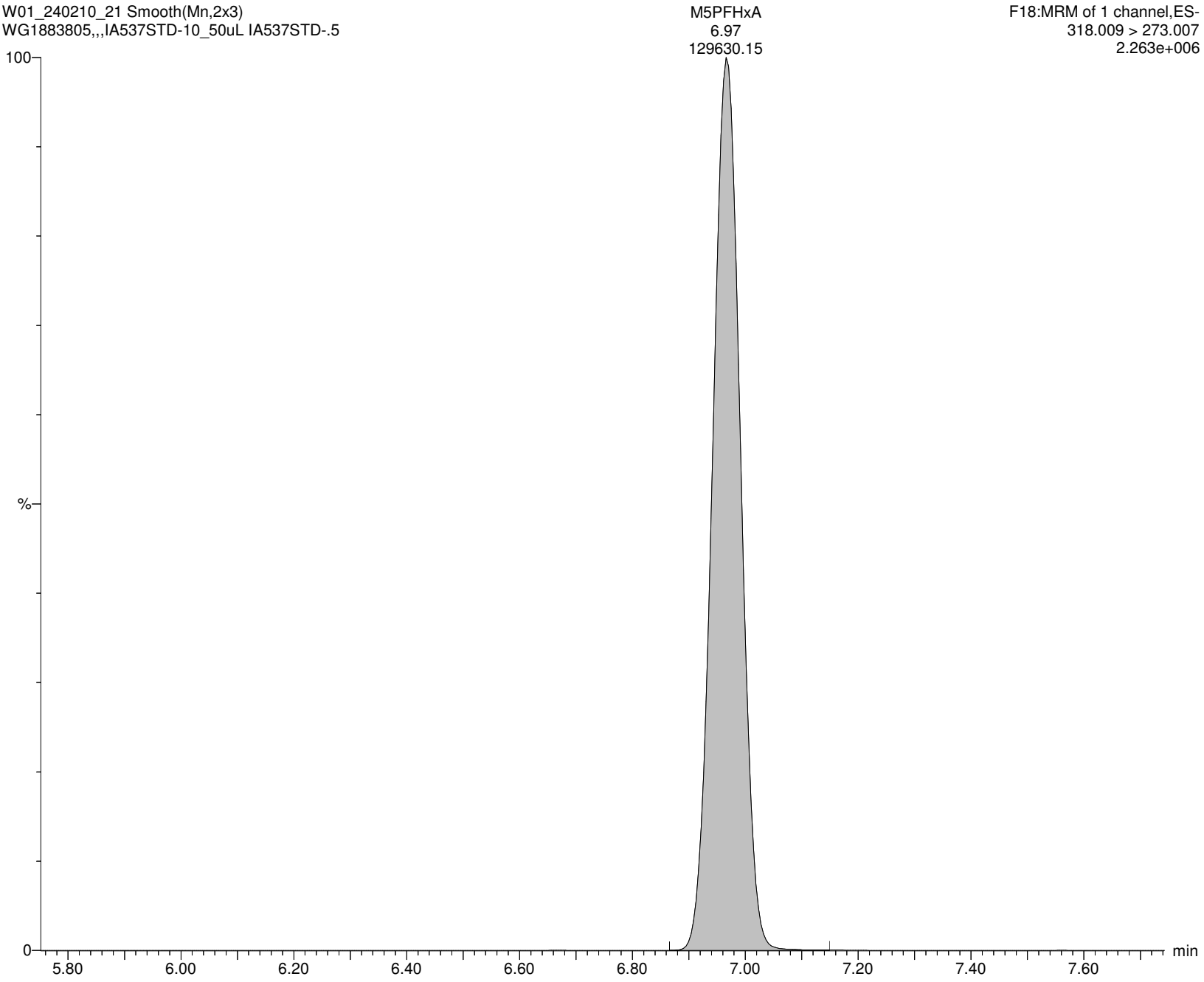

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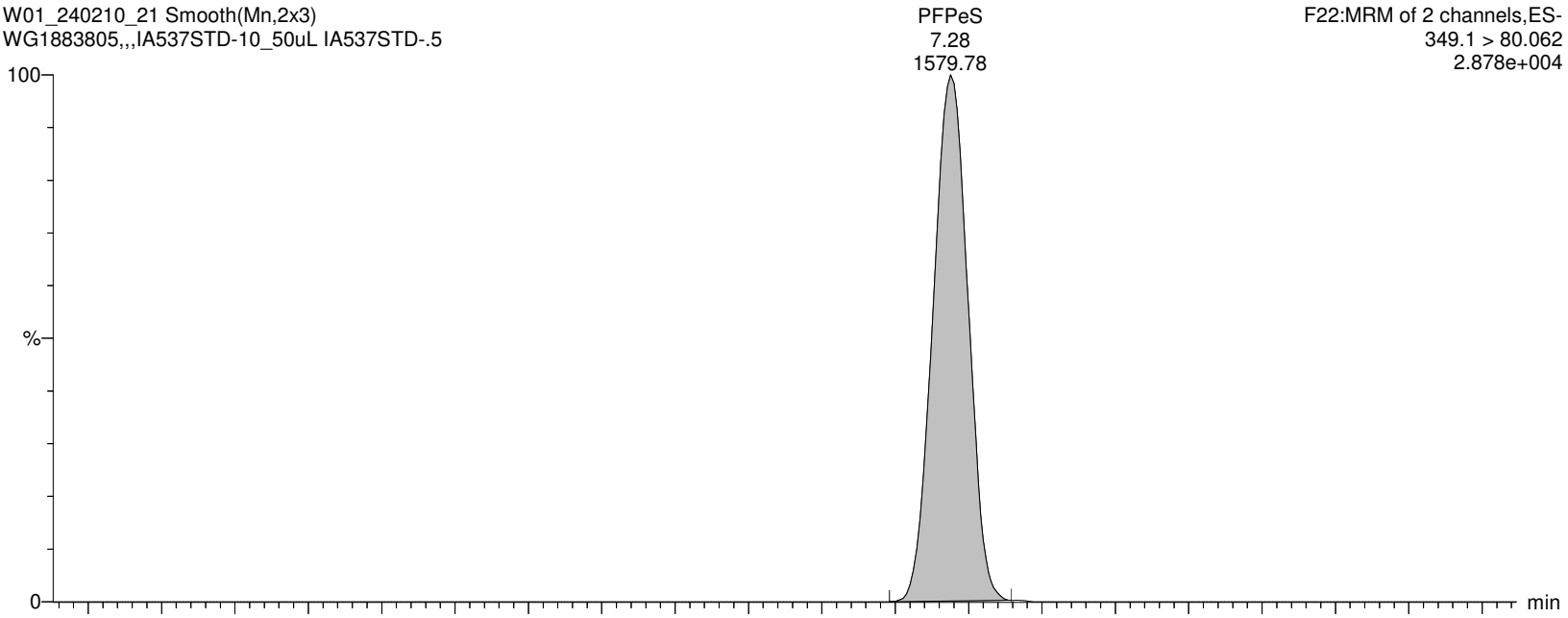

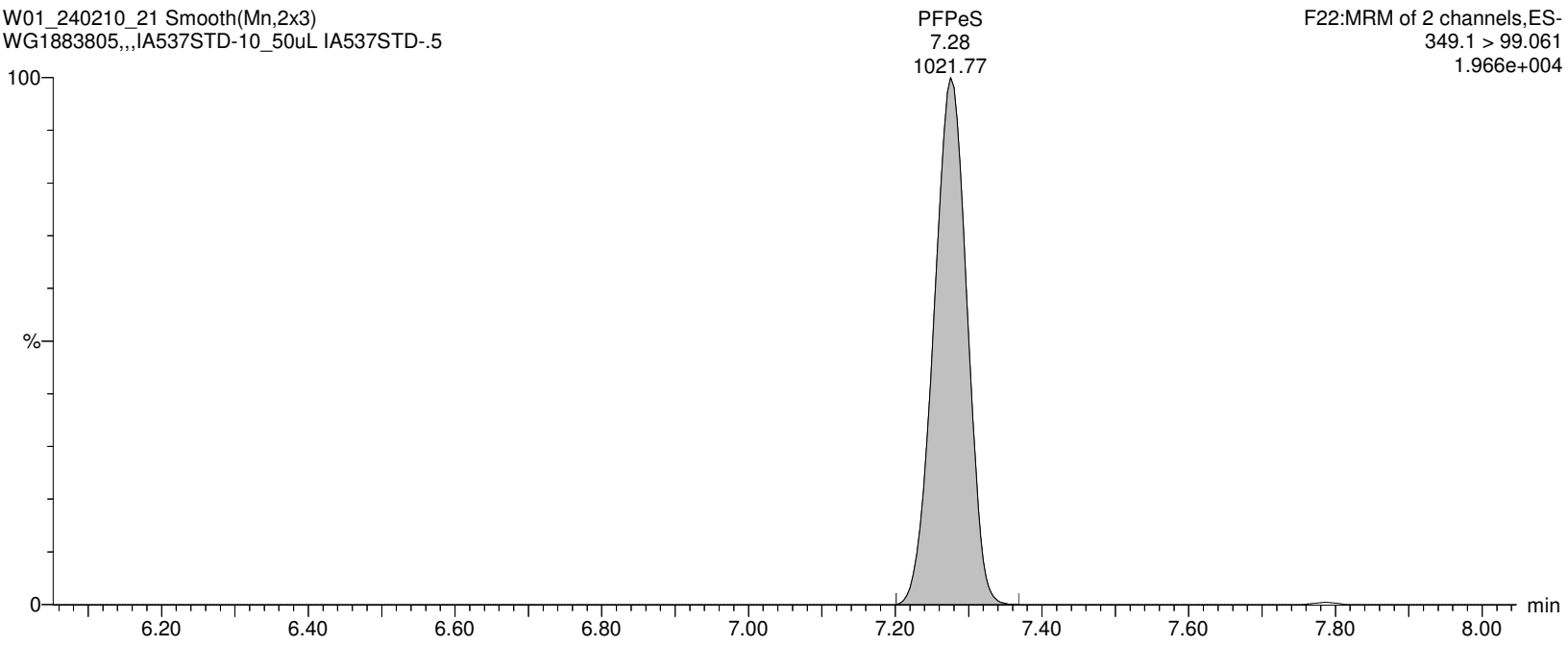

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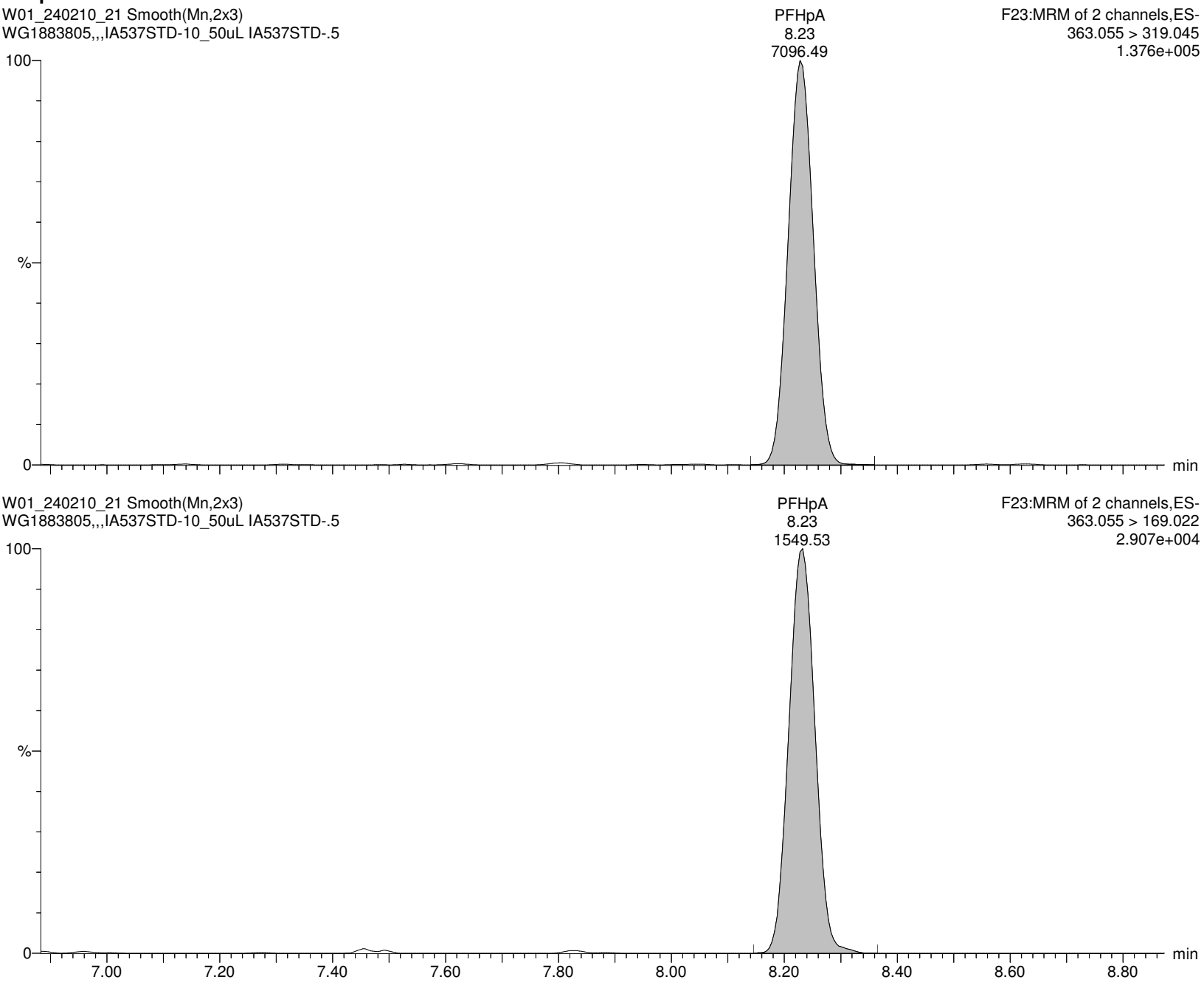

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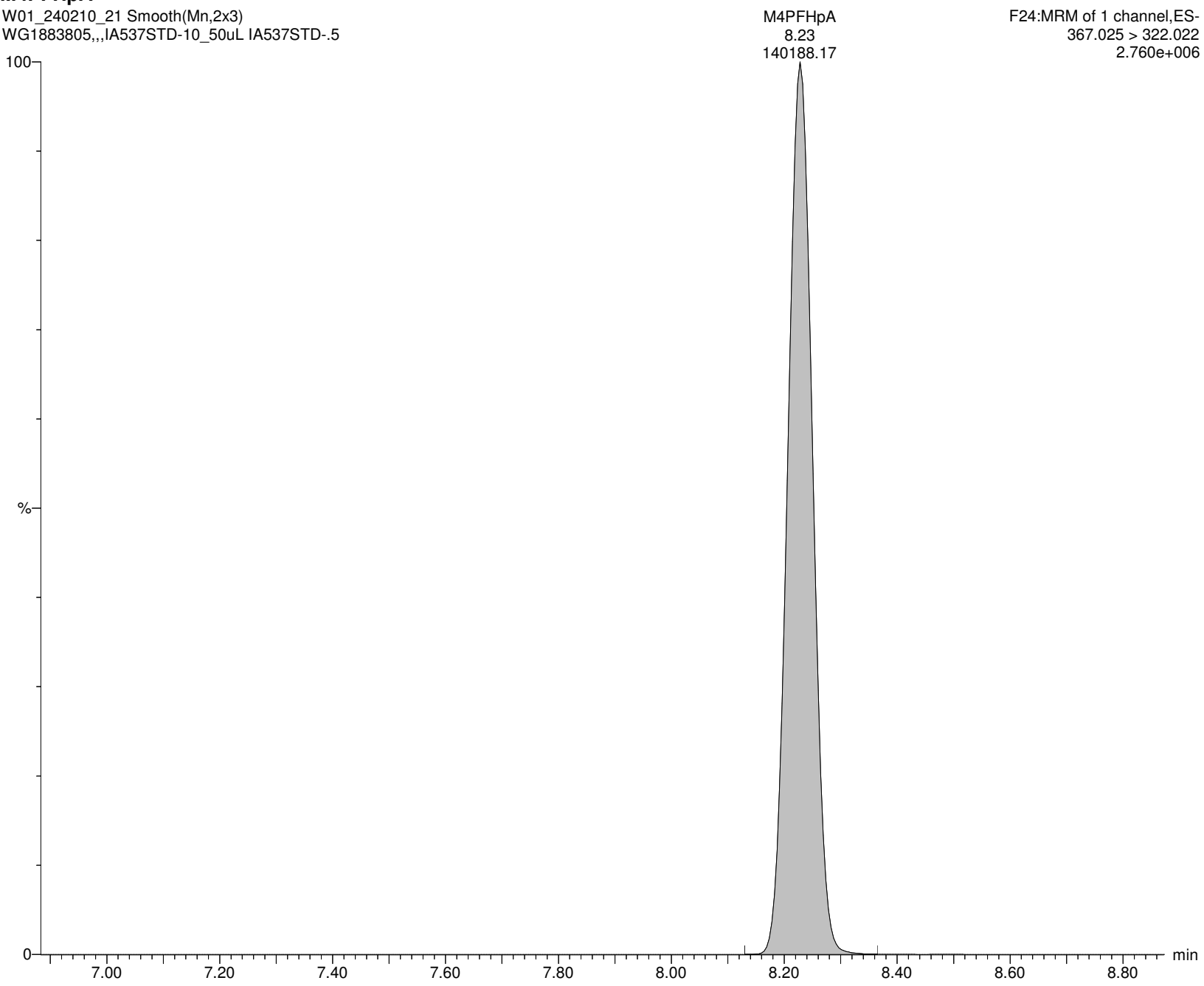

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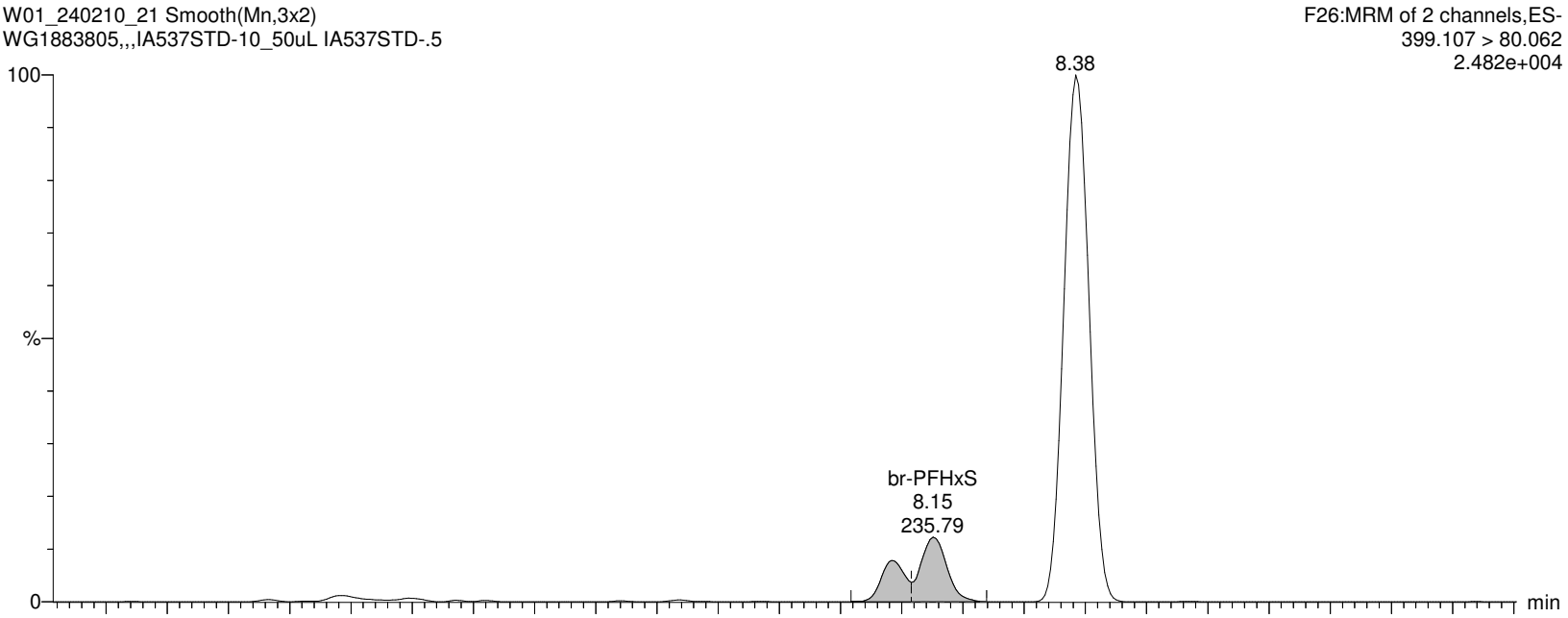

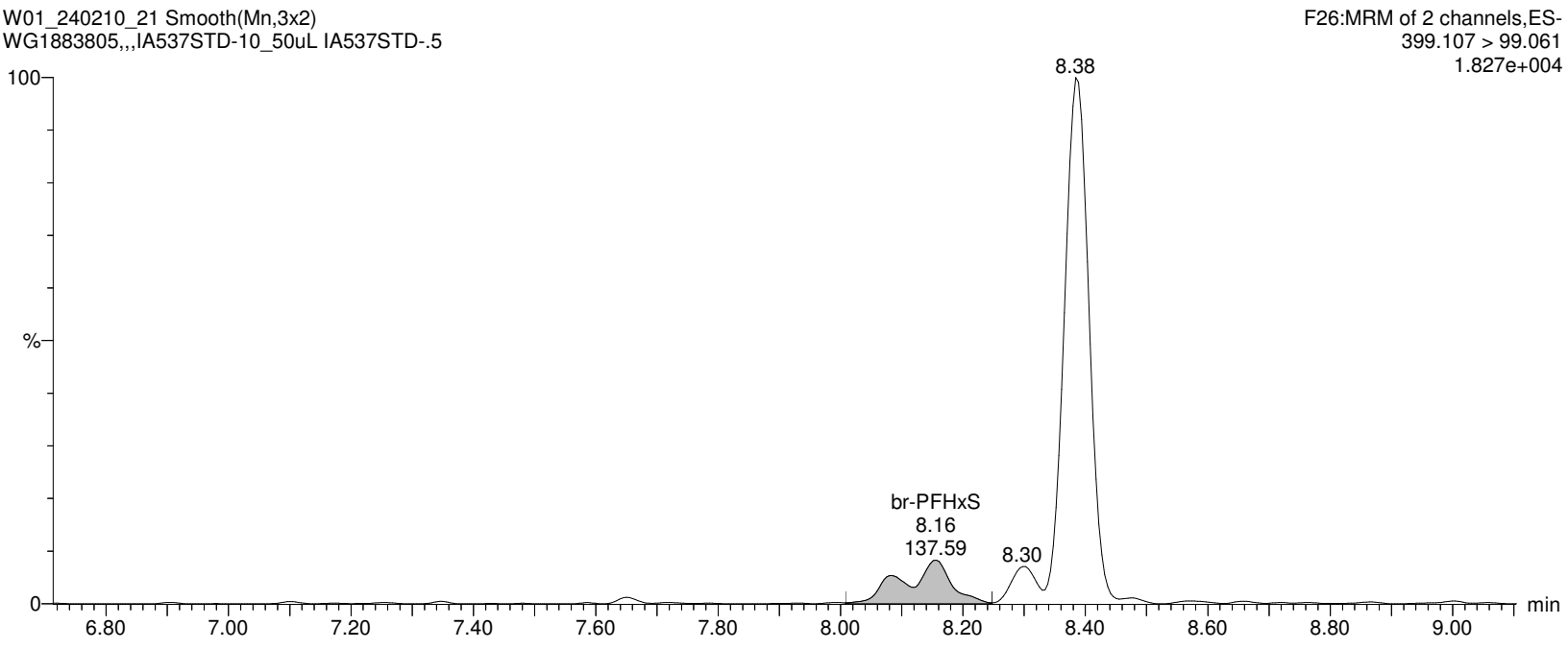

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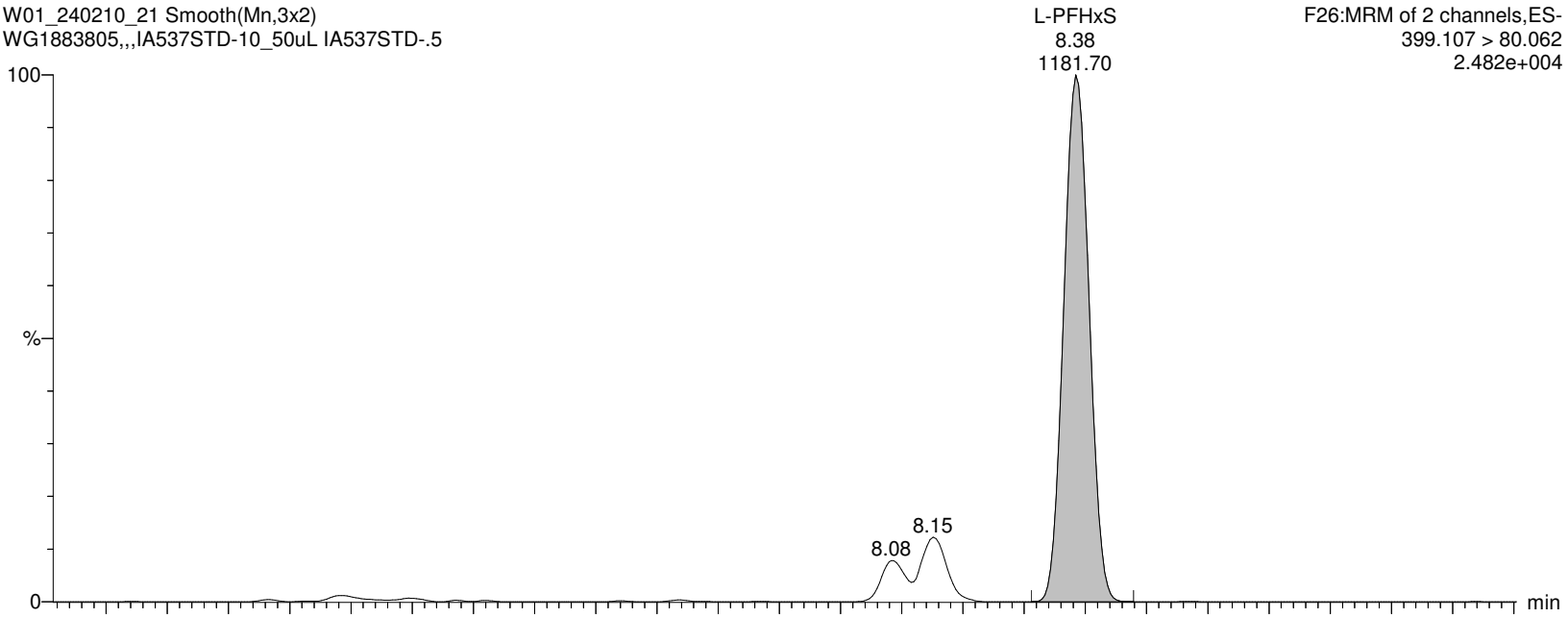

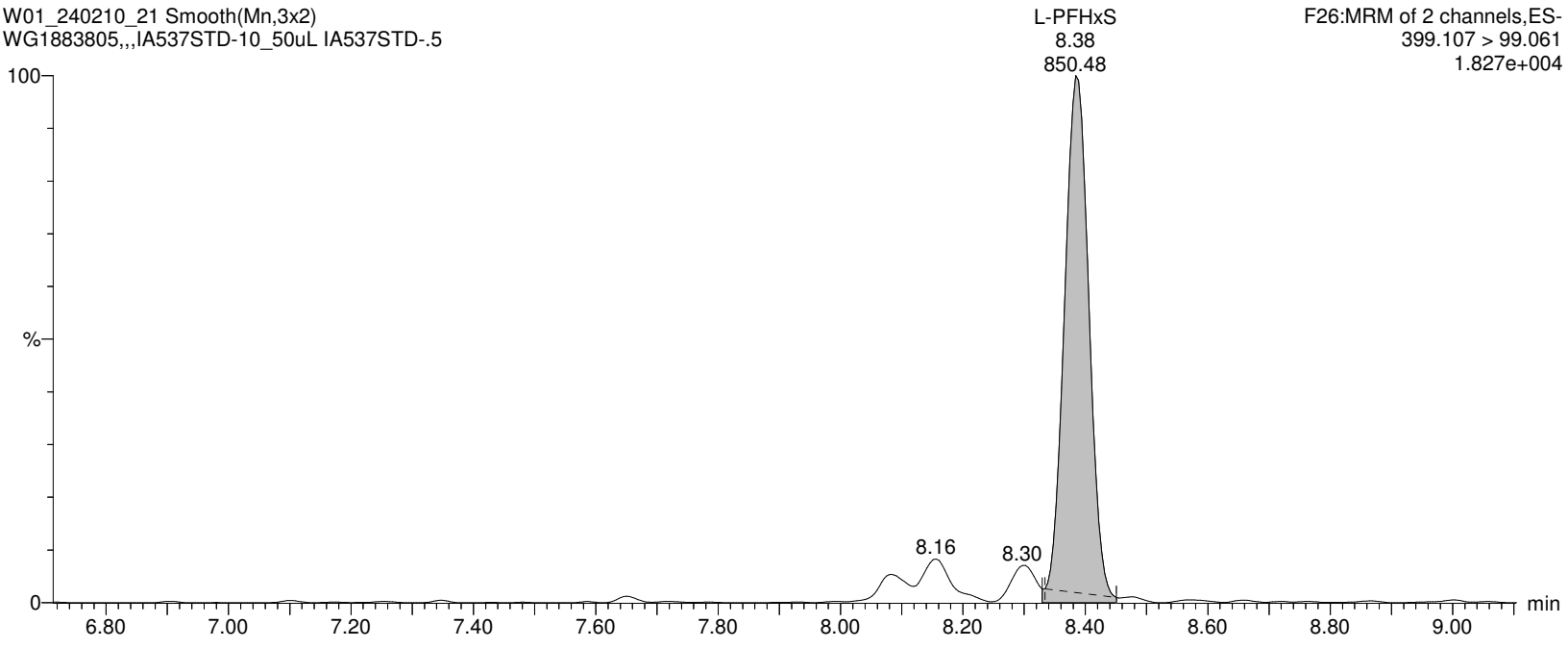

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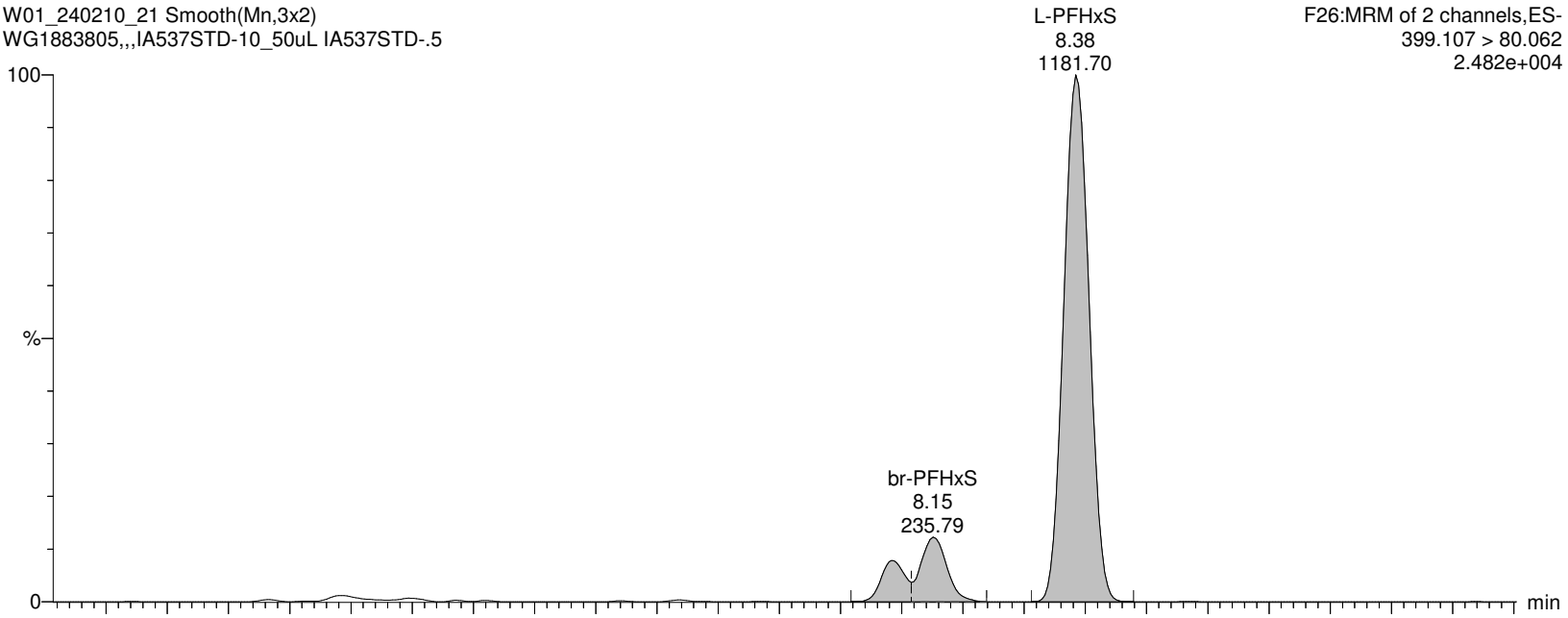

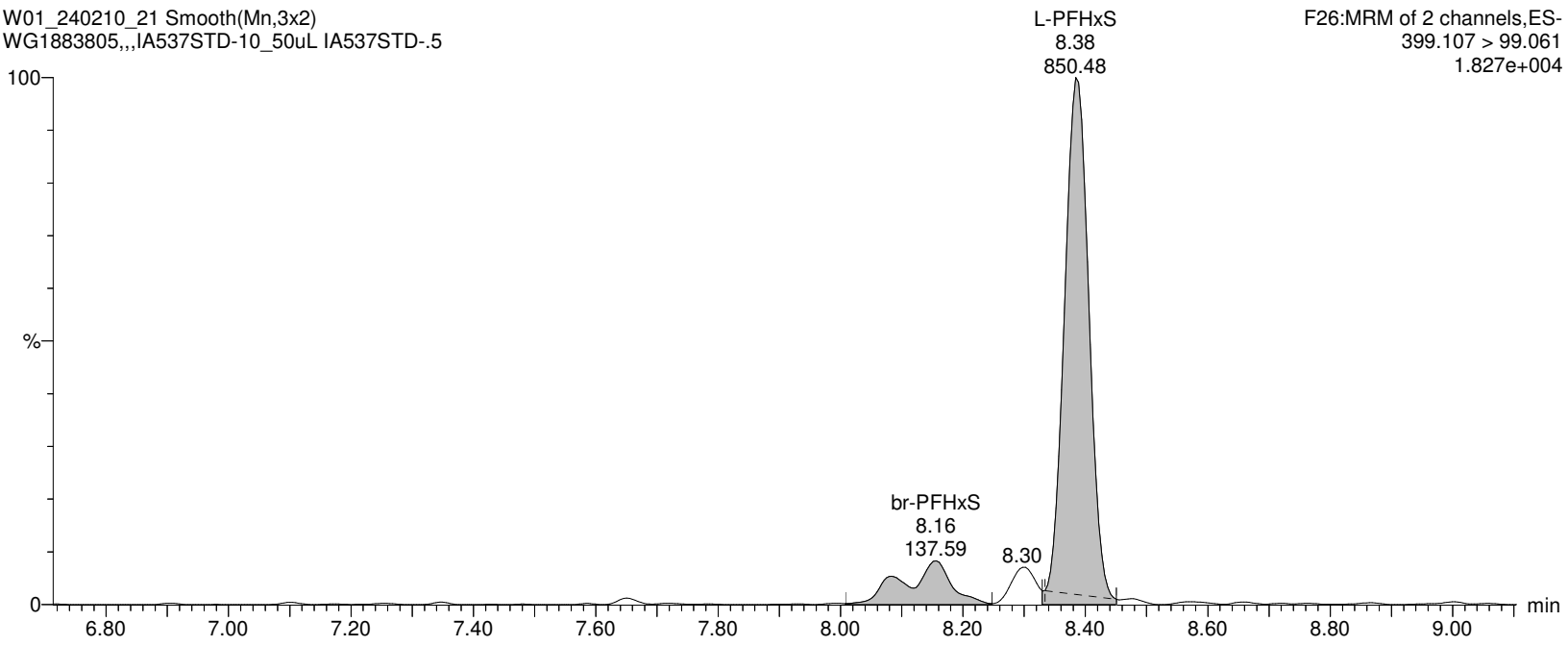

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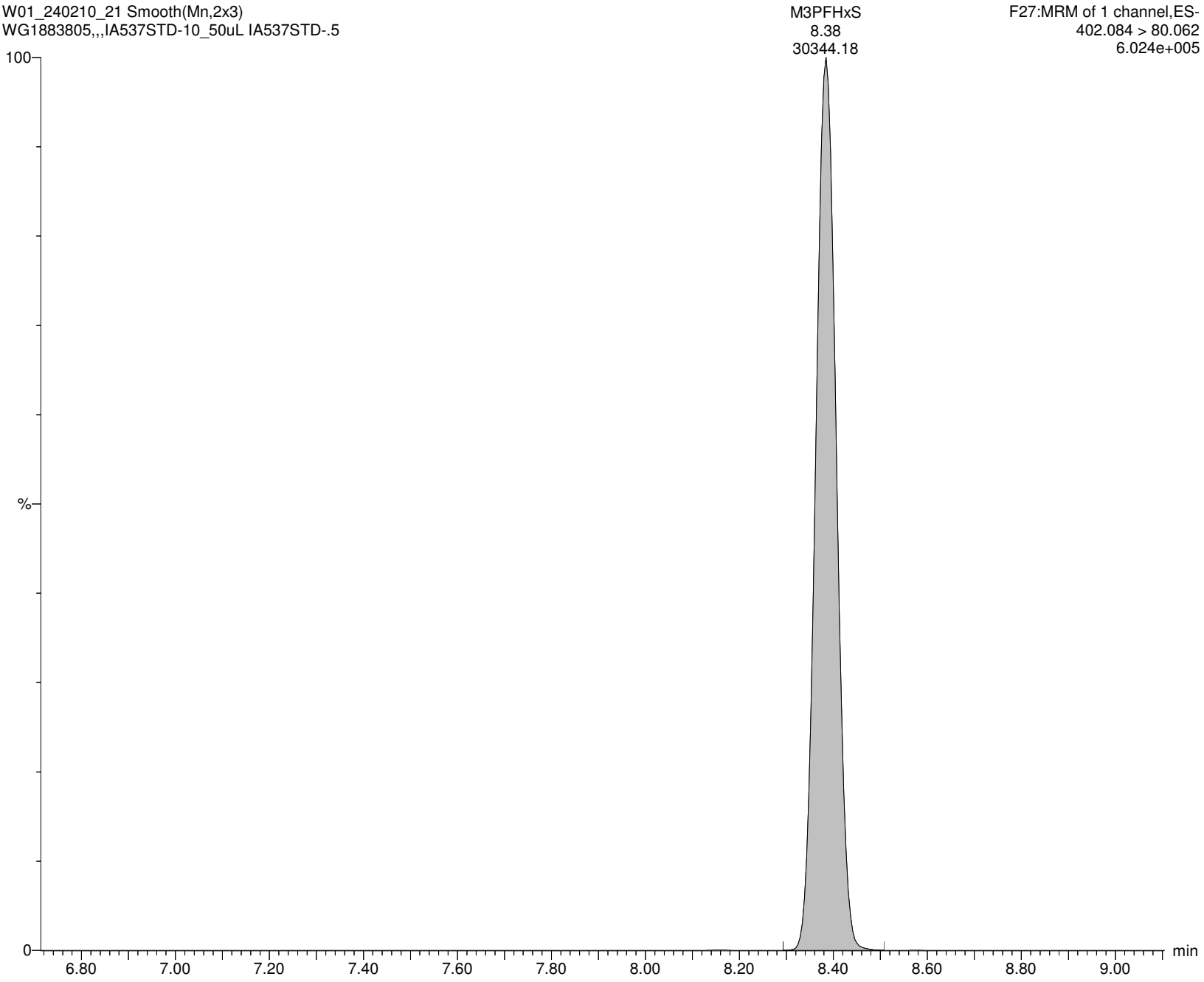

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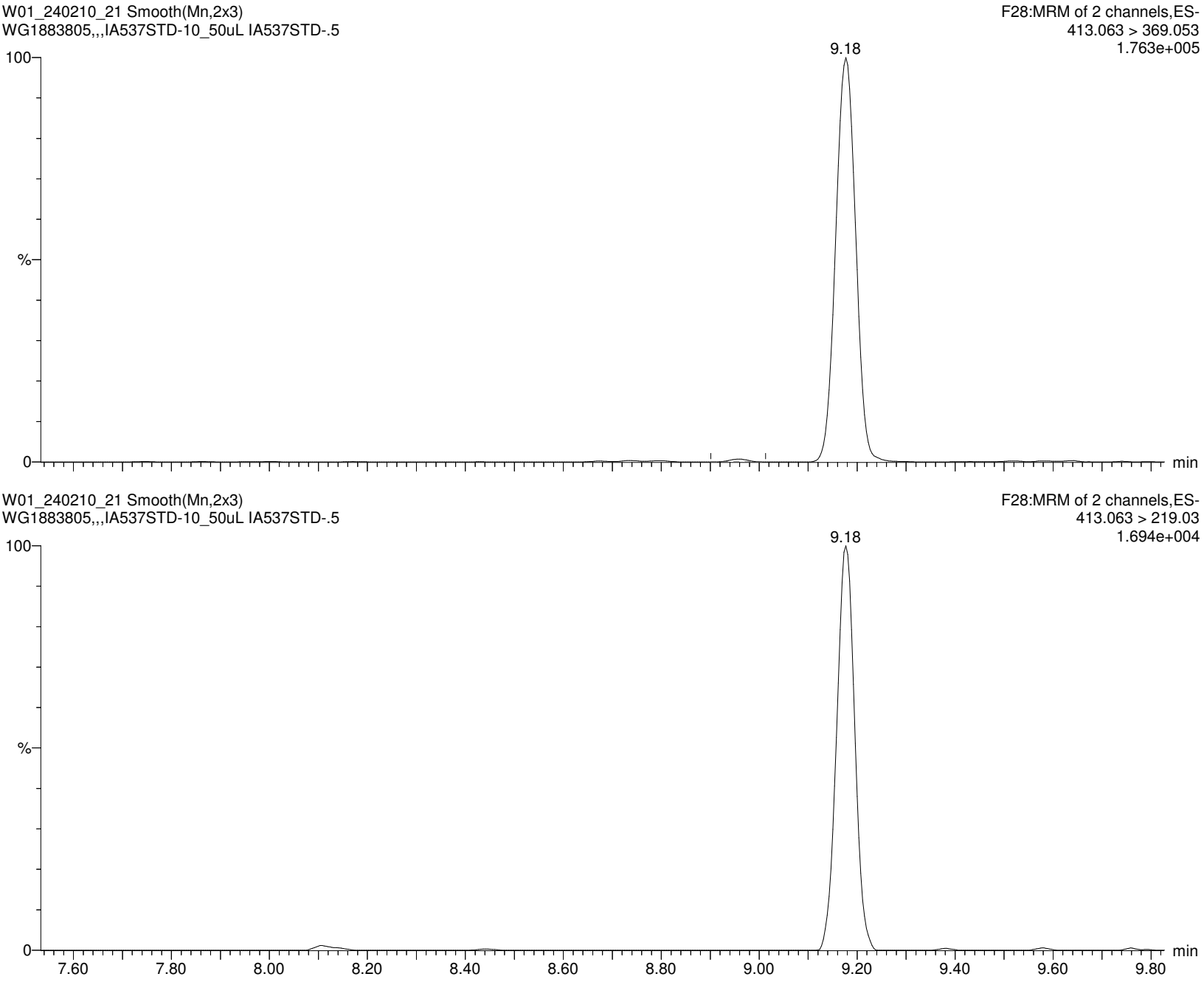

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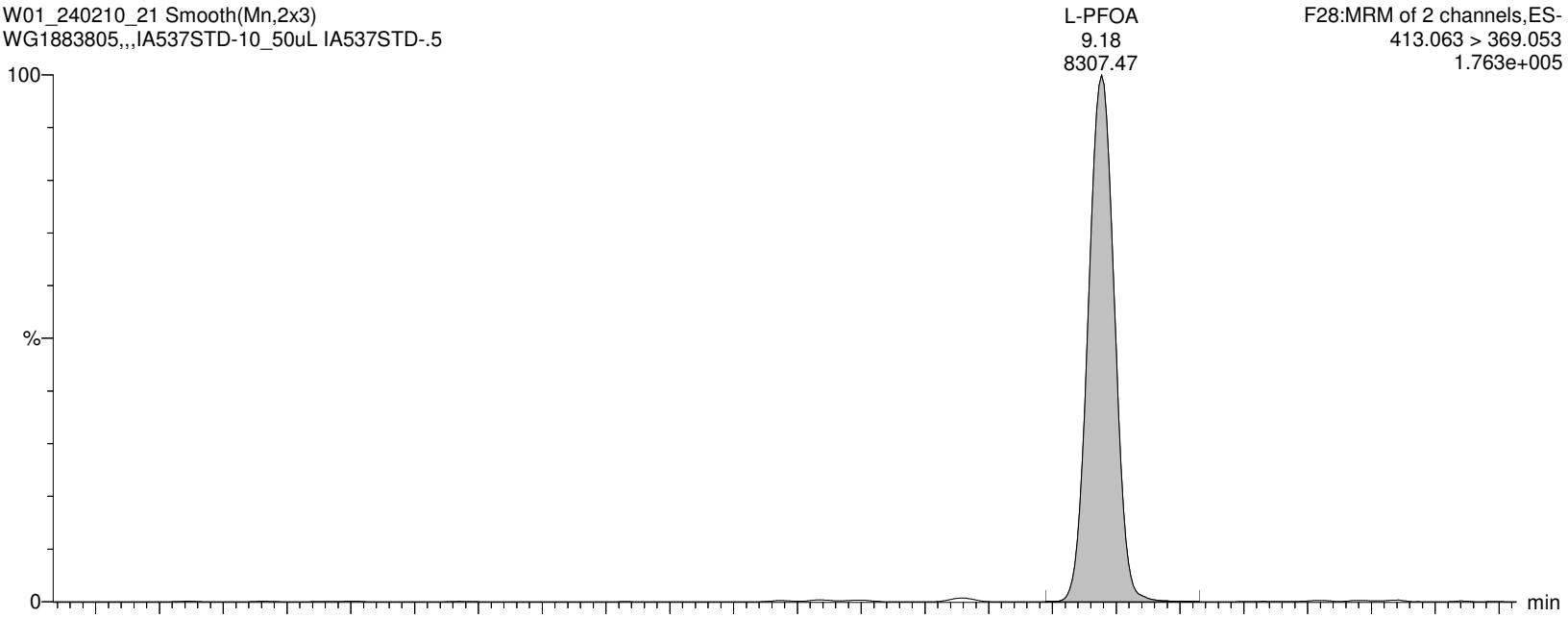
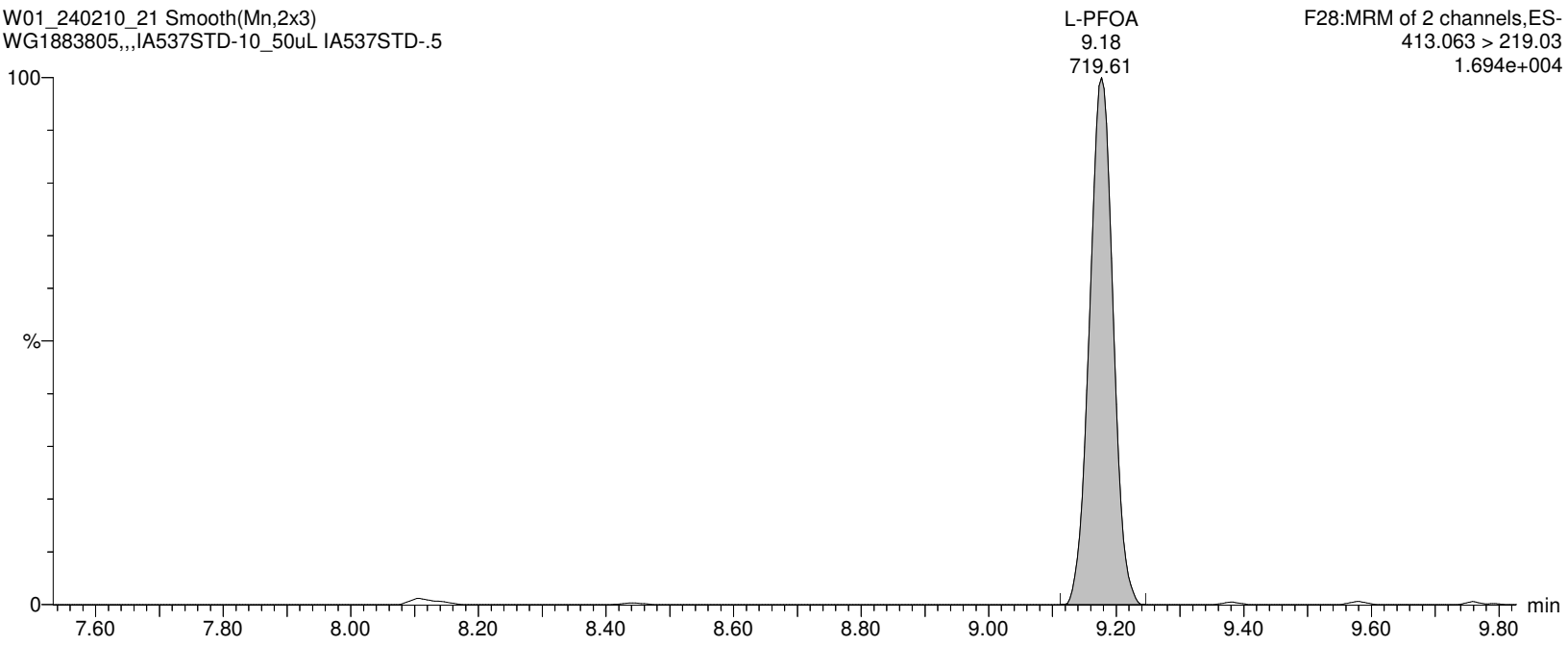
L-PFOA





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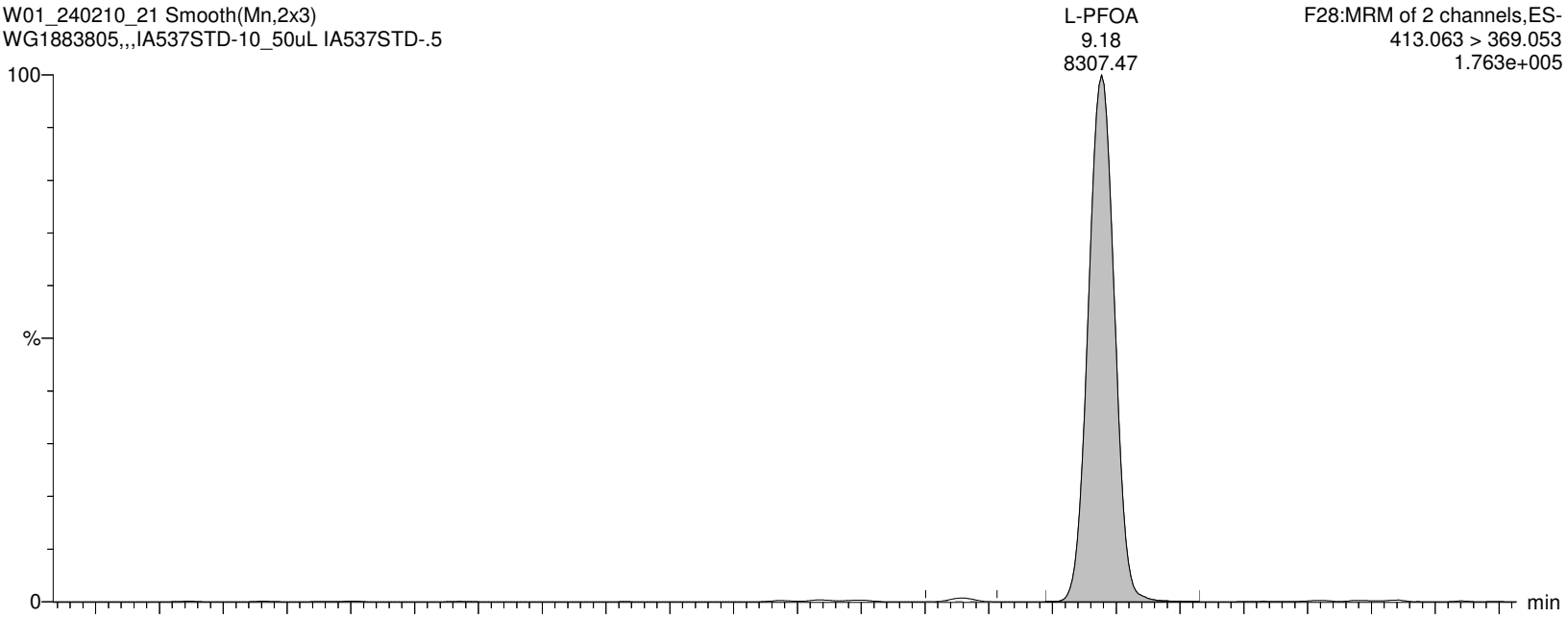

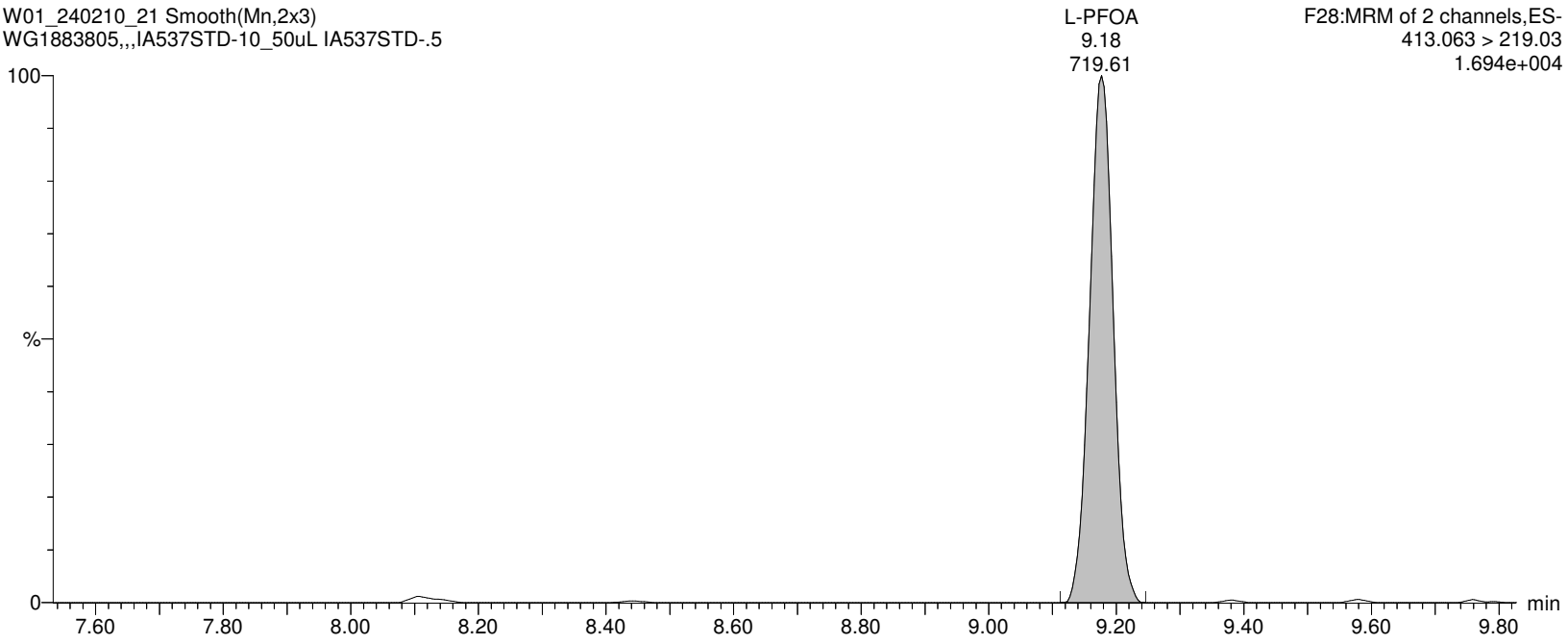

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:08 Eastern Standard Time

Name: W01_240210_21
ID: IA537STD-.5
Date: 10-Feb-2024
Time: 16:13:31
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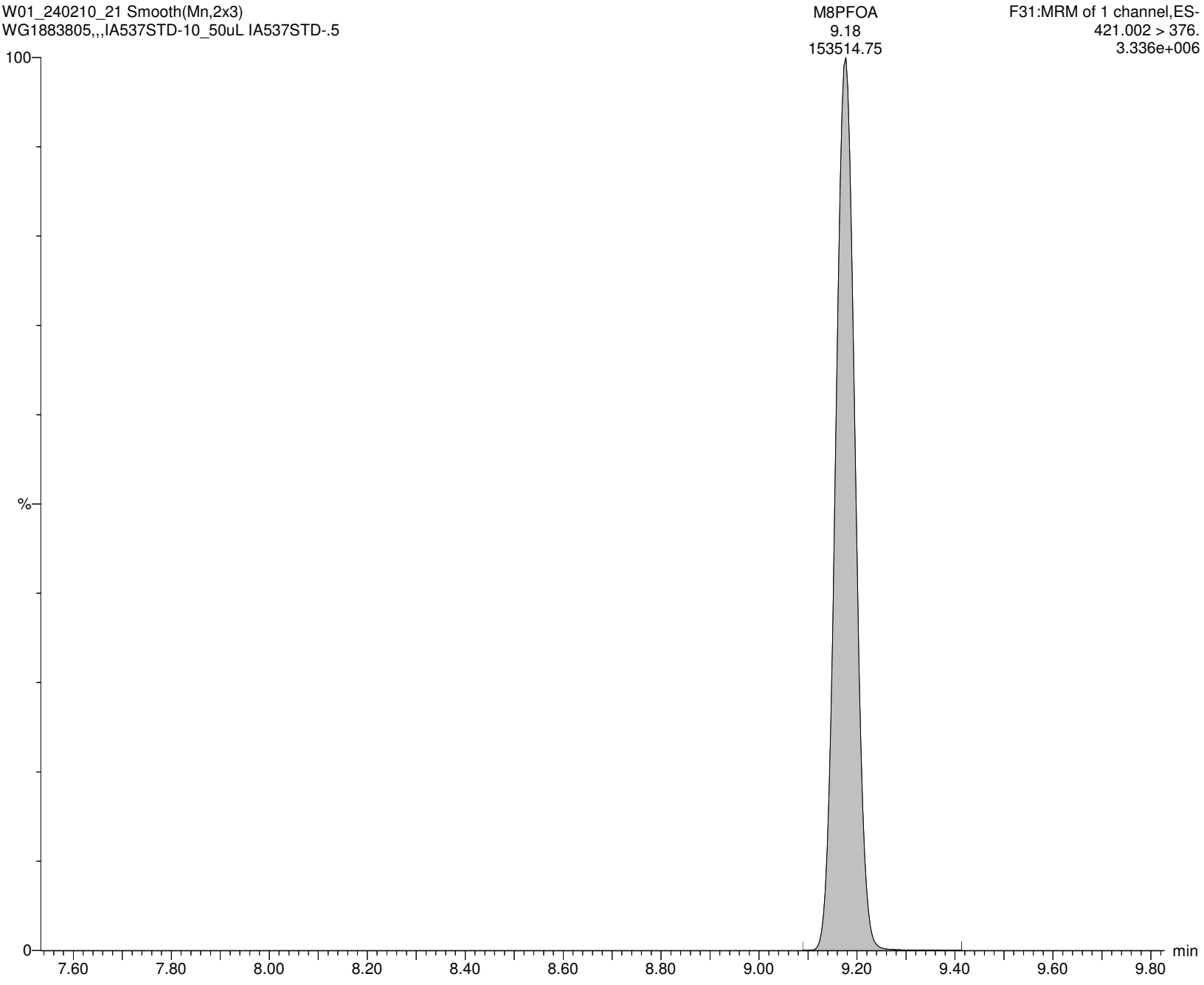

all concentration units in (ng/mL)

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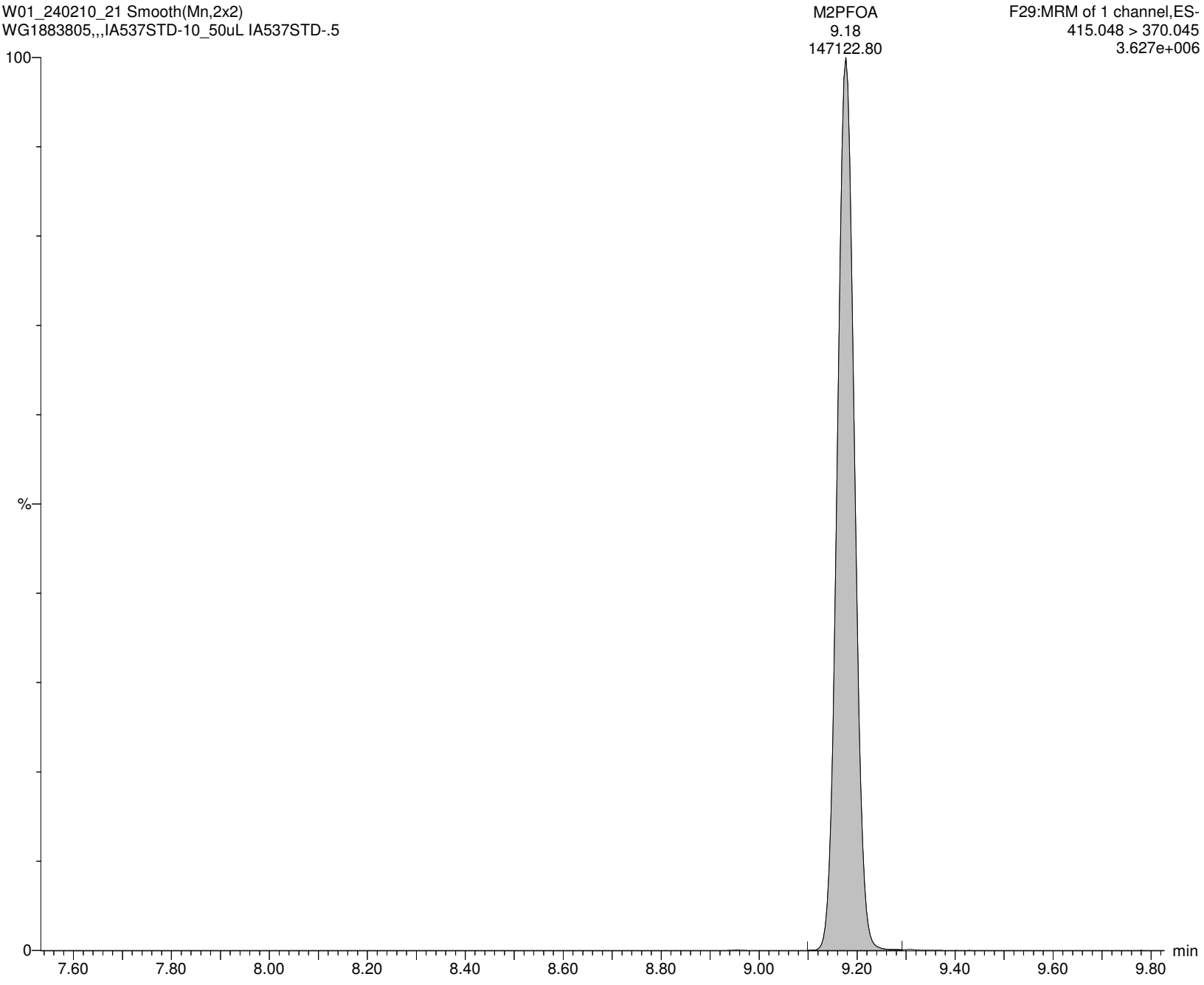

all concentration units in (ng/mL)

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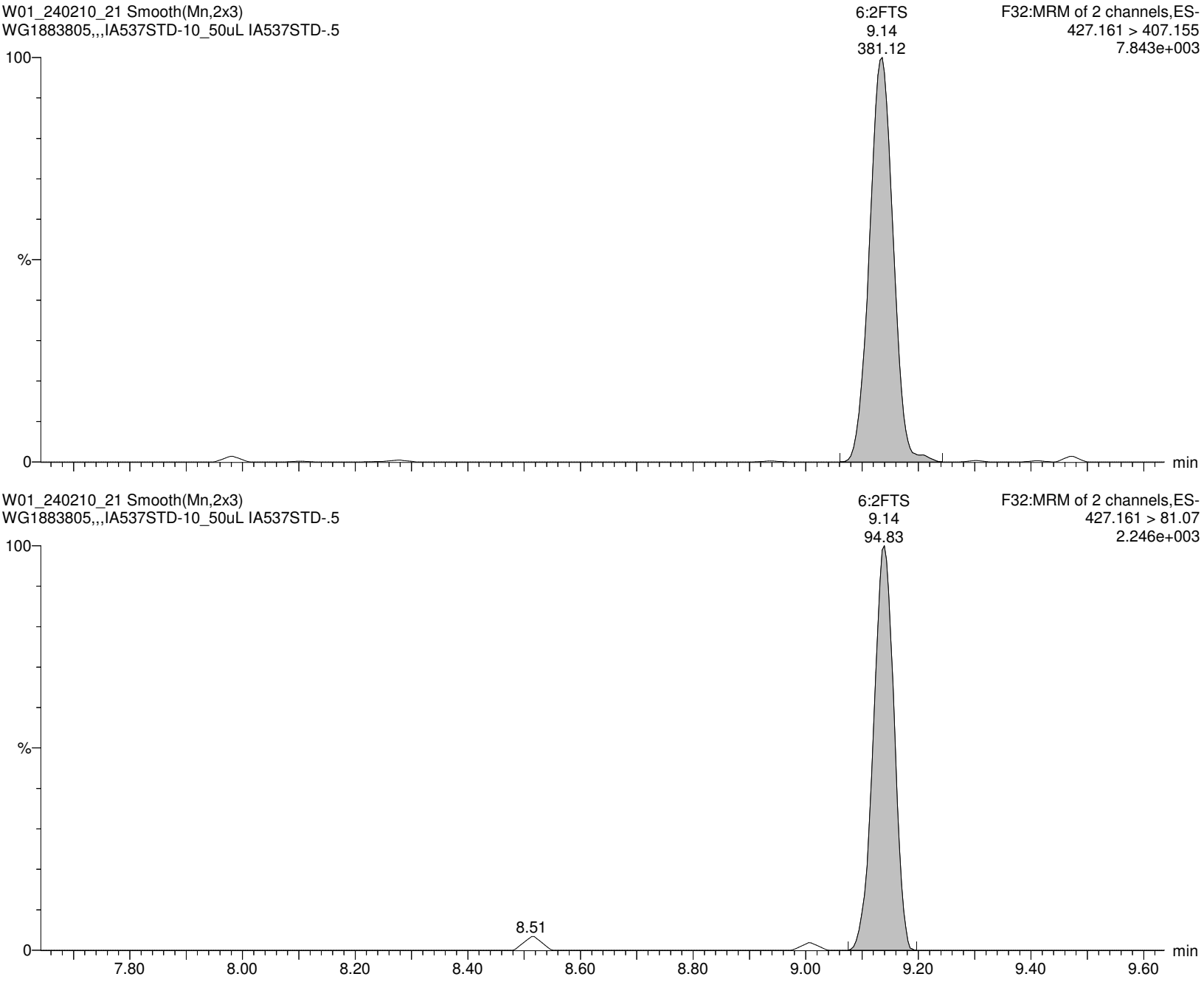

all concentration units in (ng/mL)

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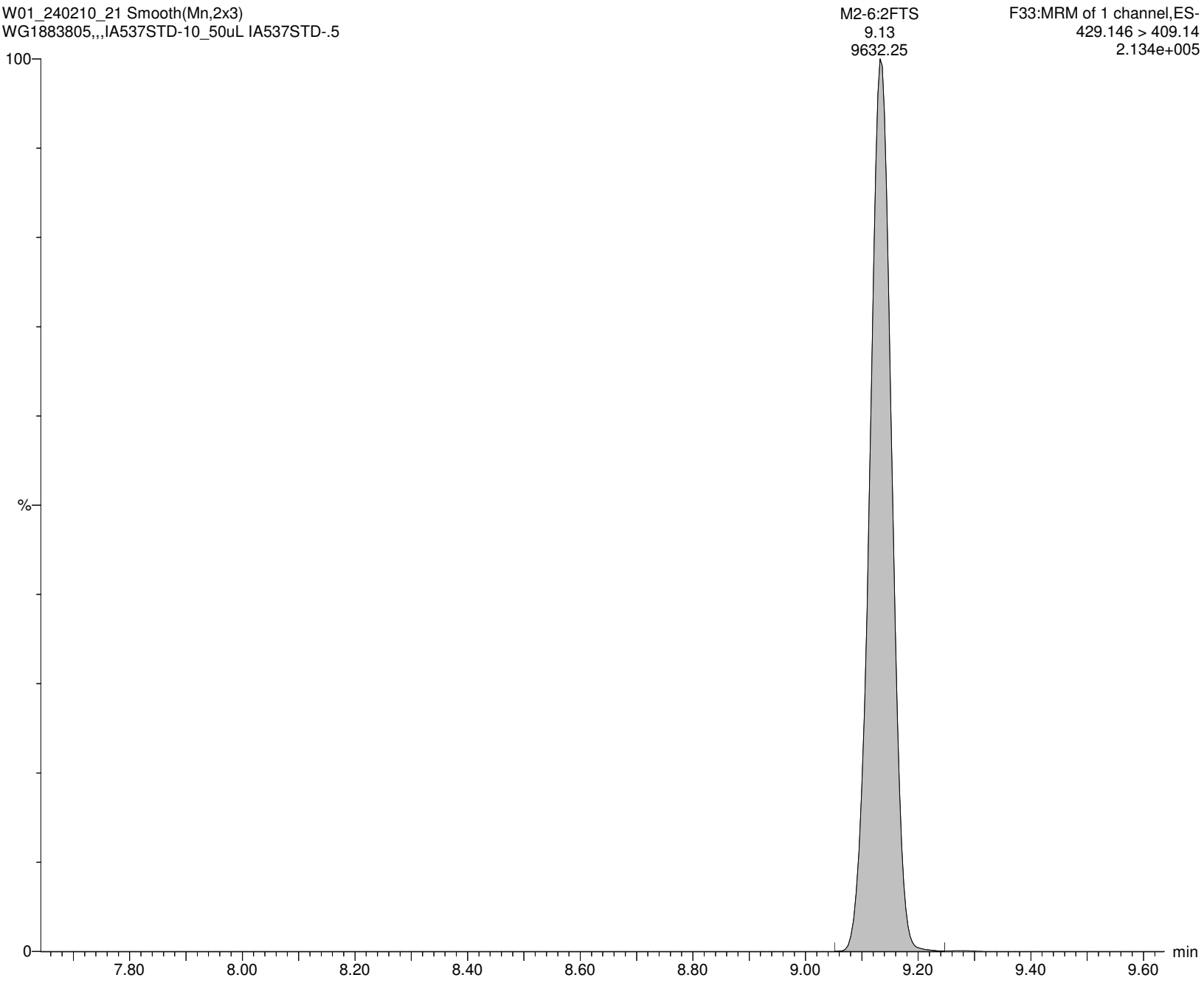

all concentration units in (ng/mL)

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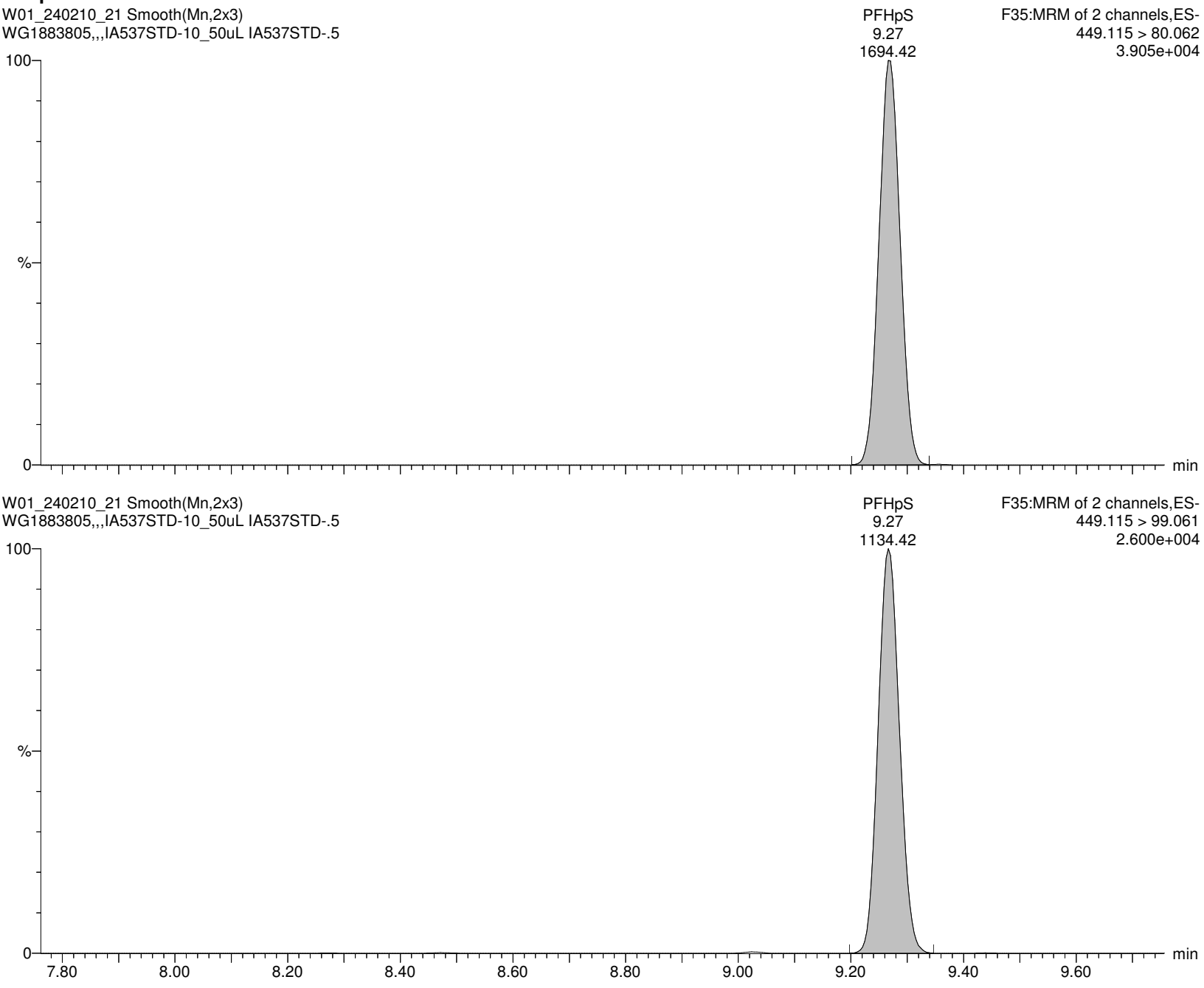

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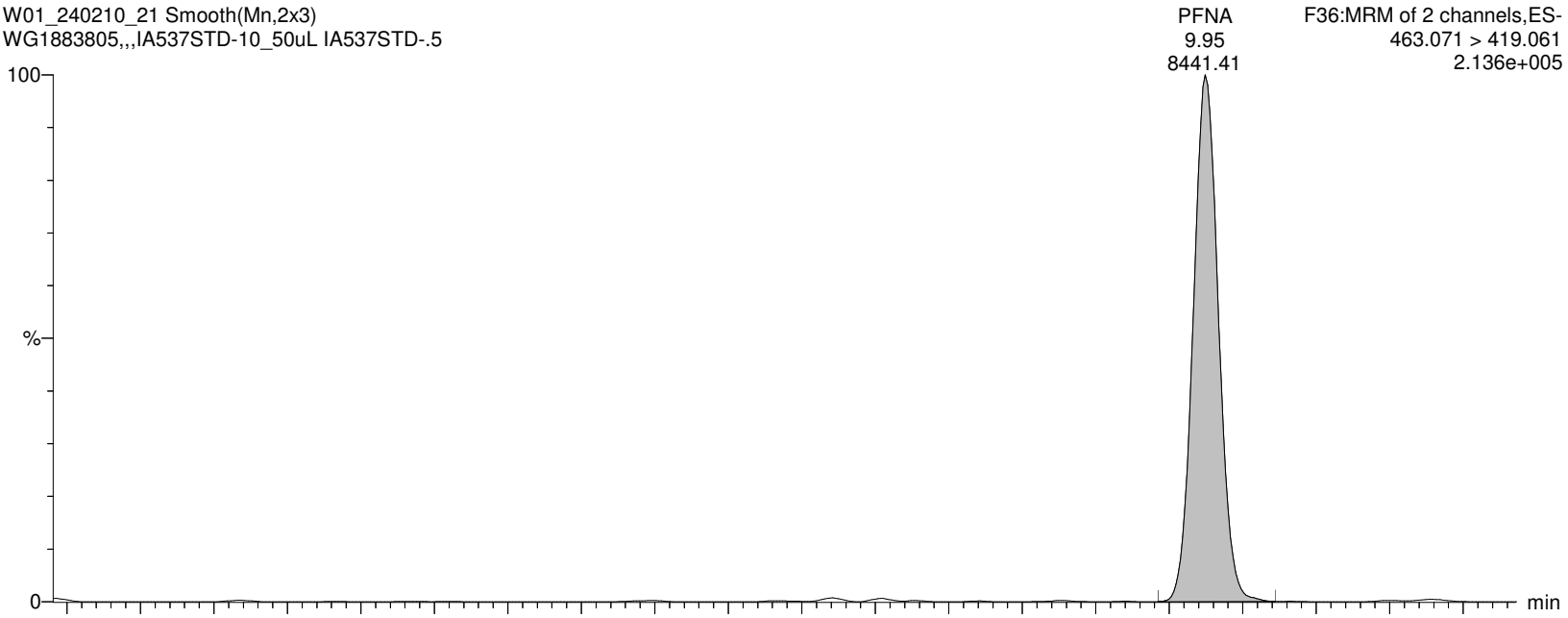

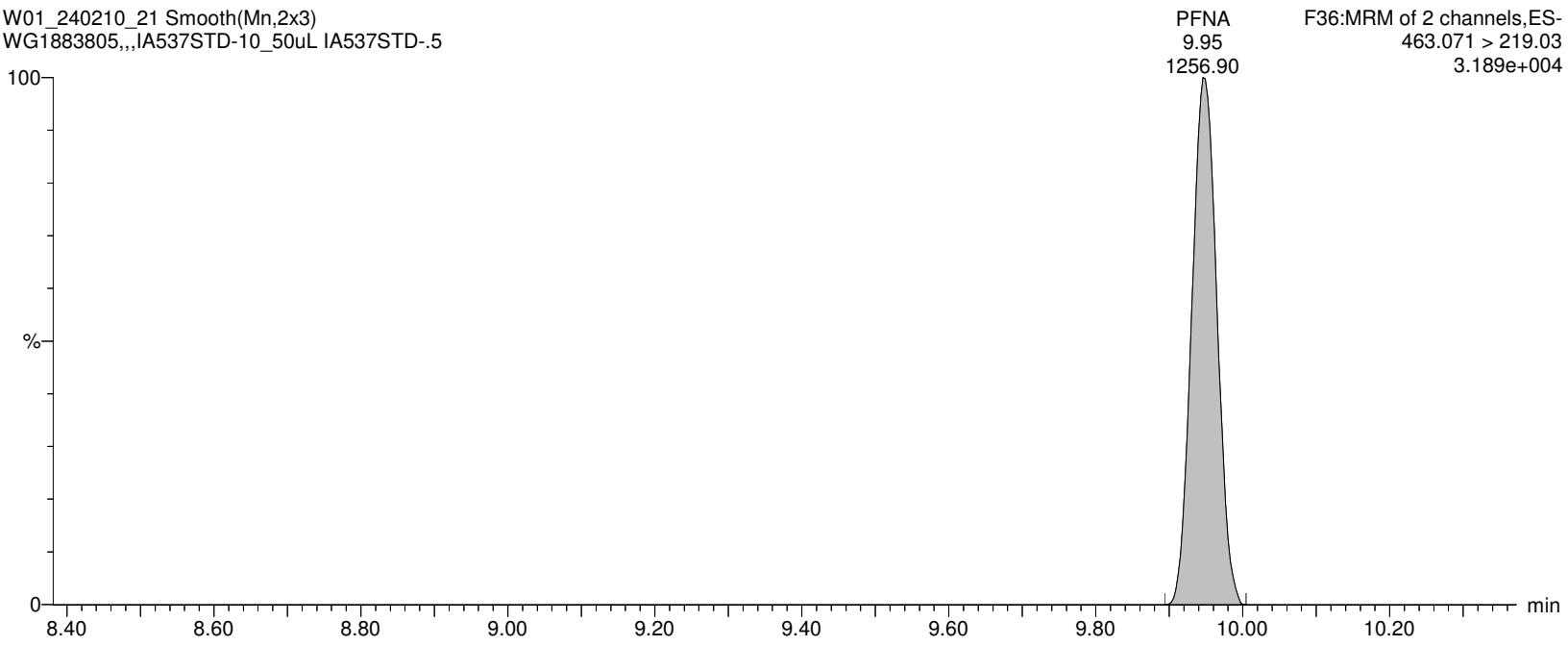

all concentration units in (ng/mL)

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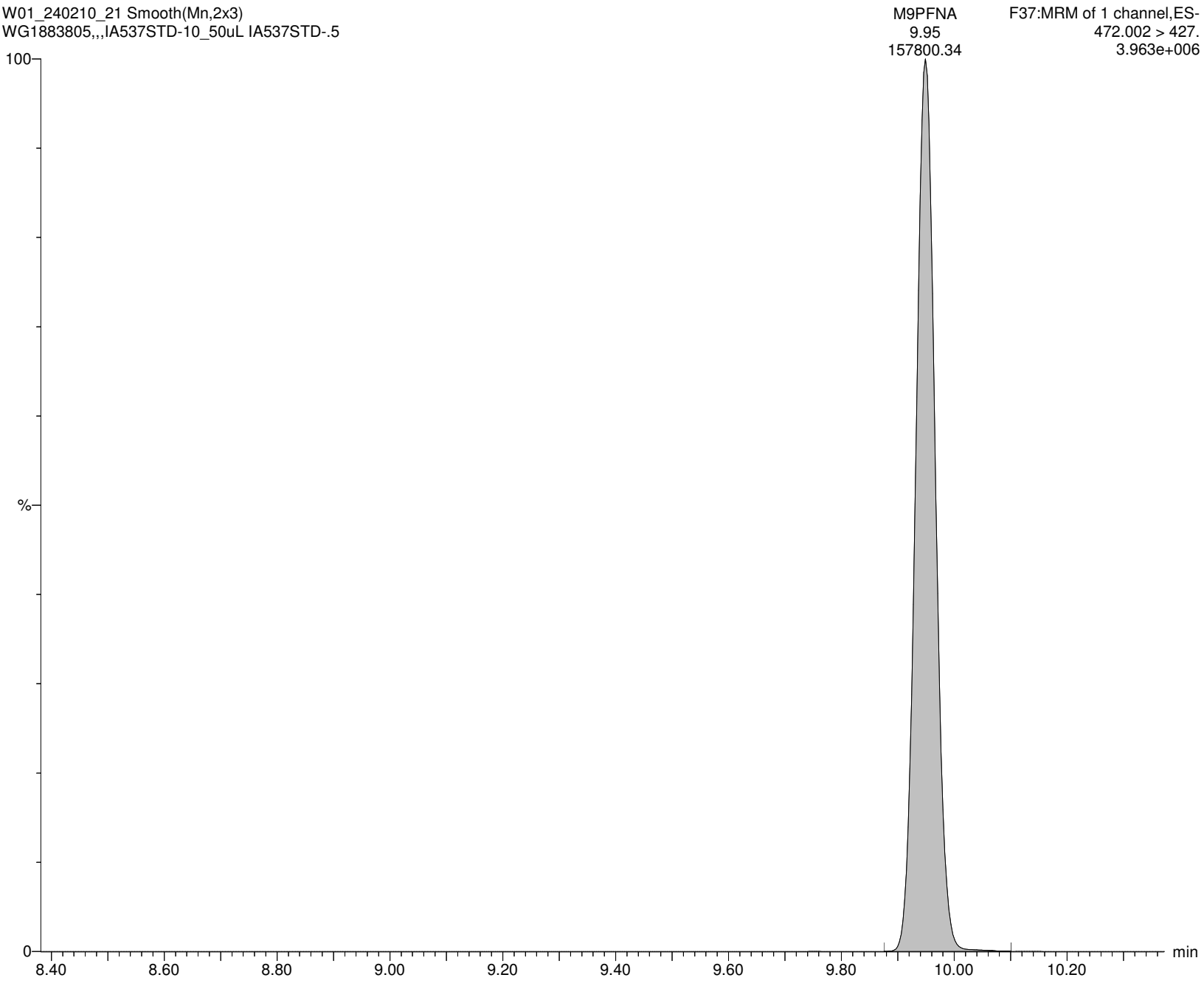

all concentration units in (ng/mL)

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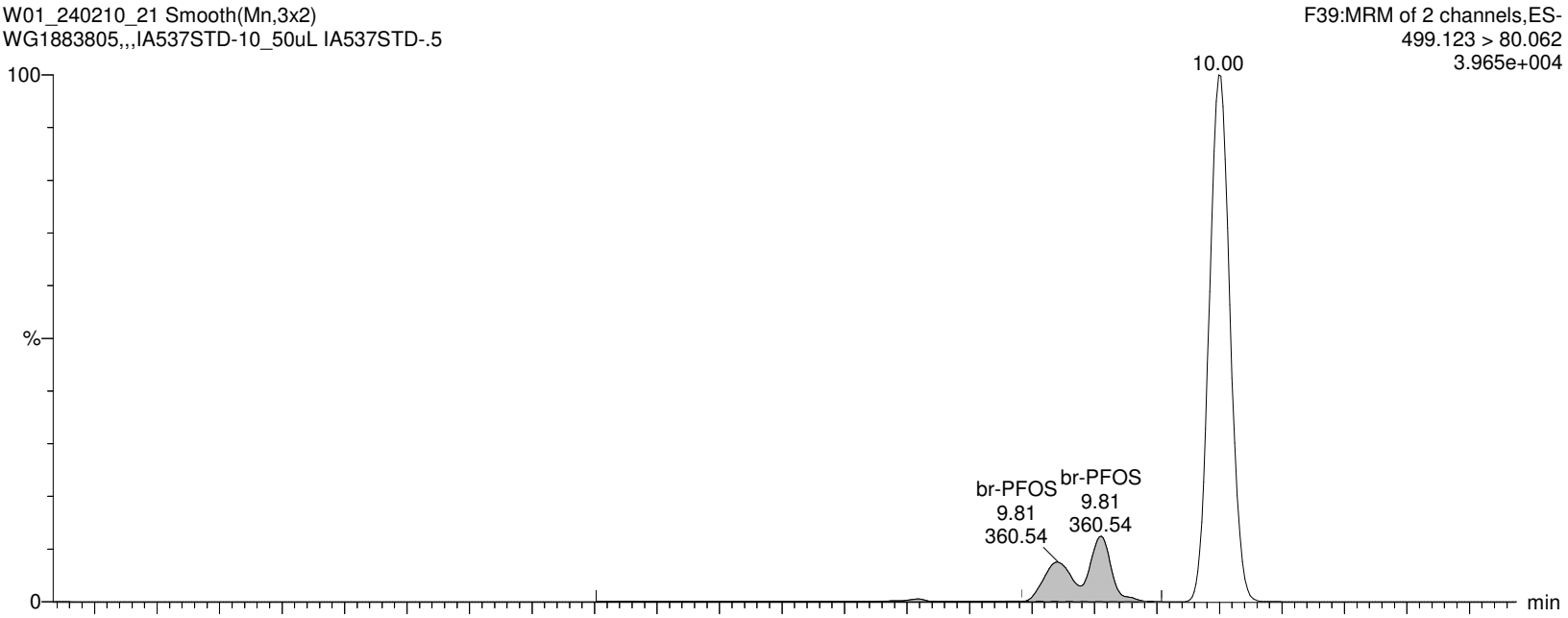

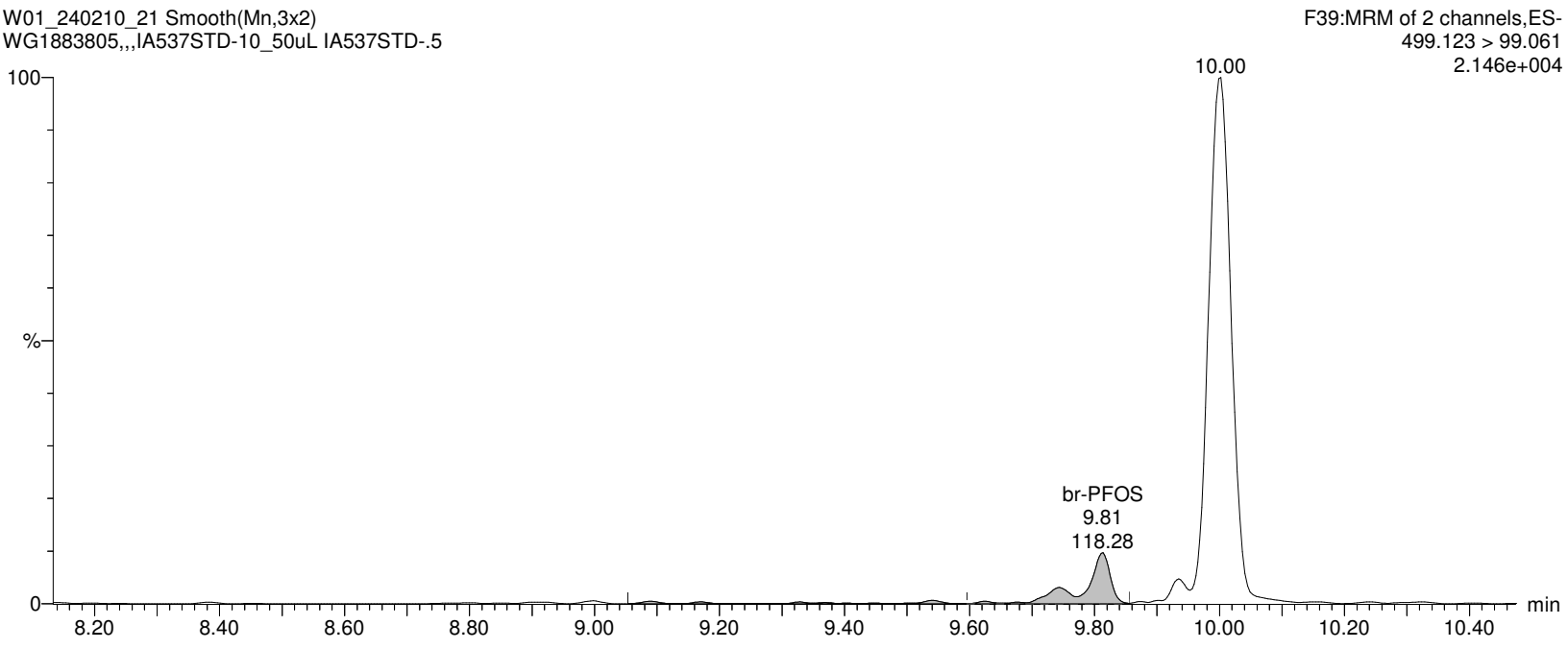

all concentration units in (ng/mL)

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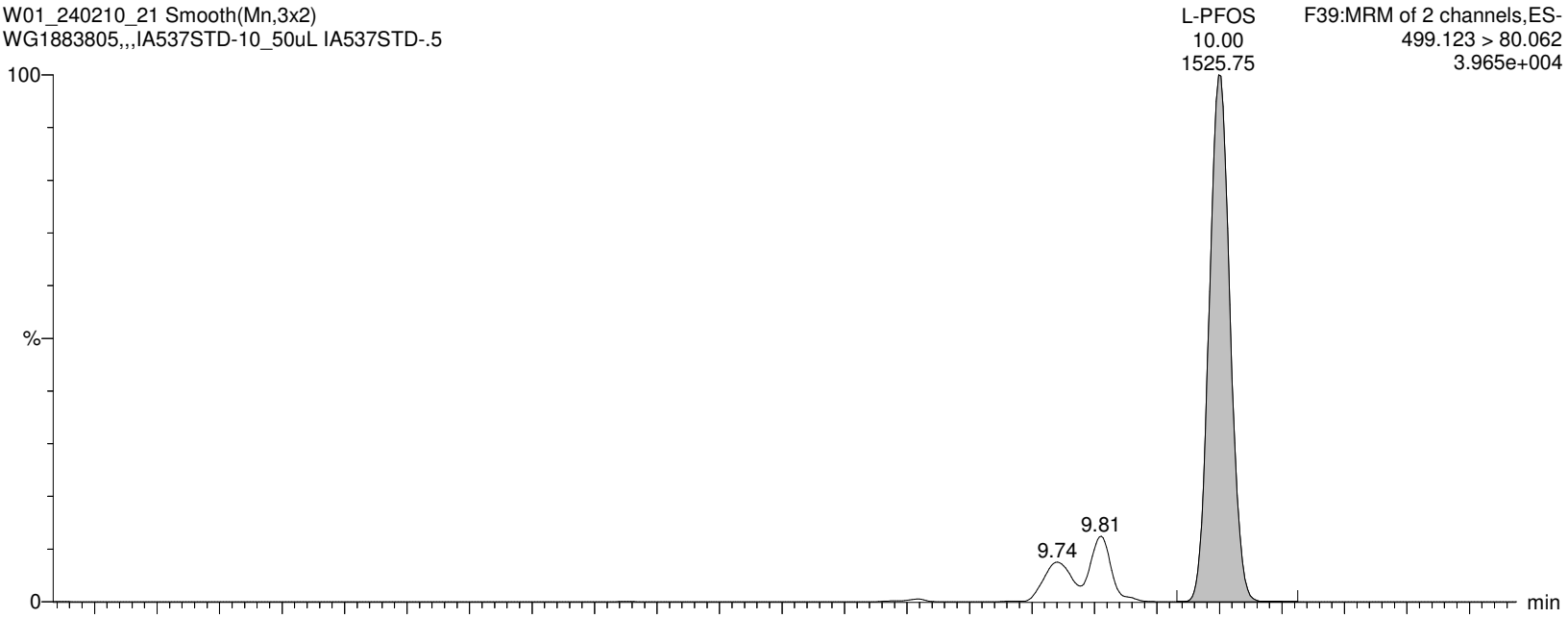
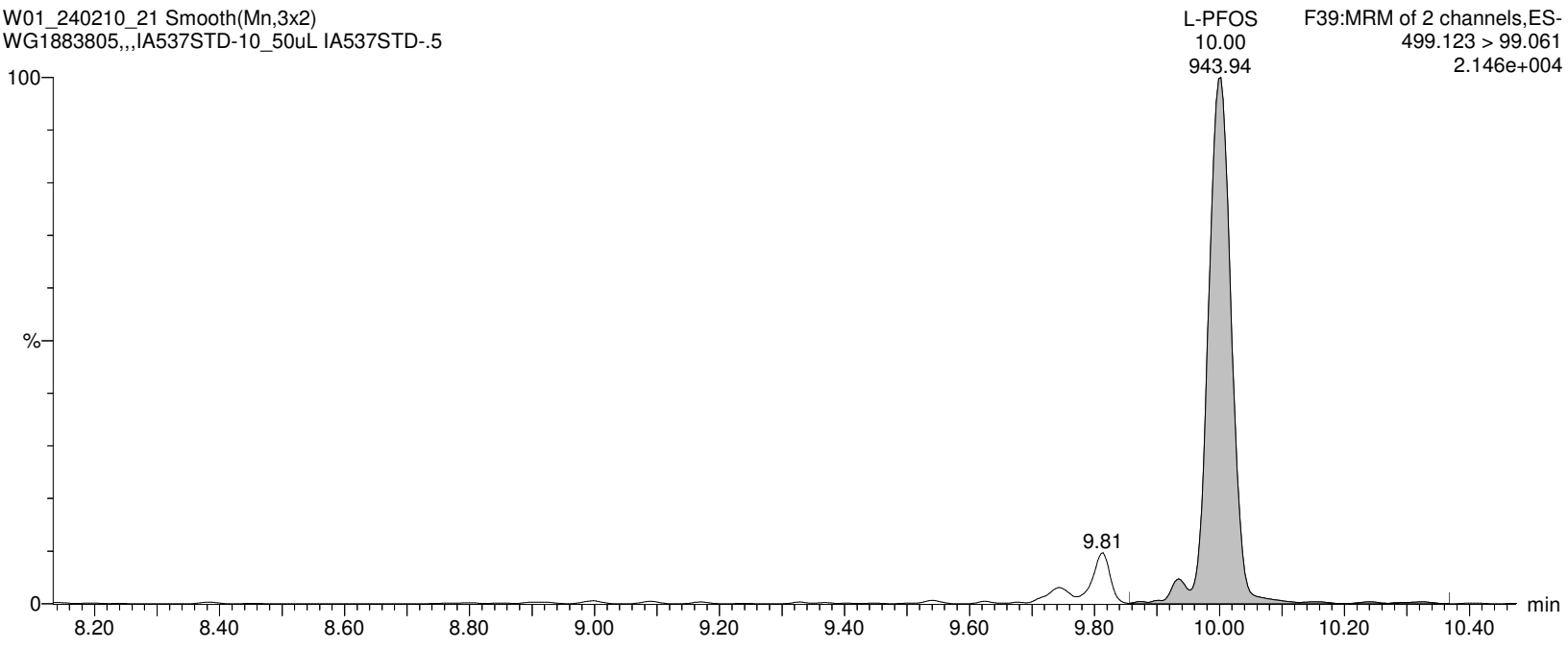
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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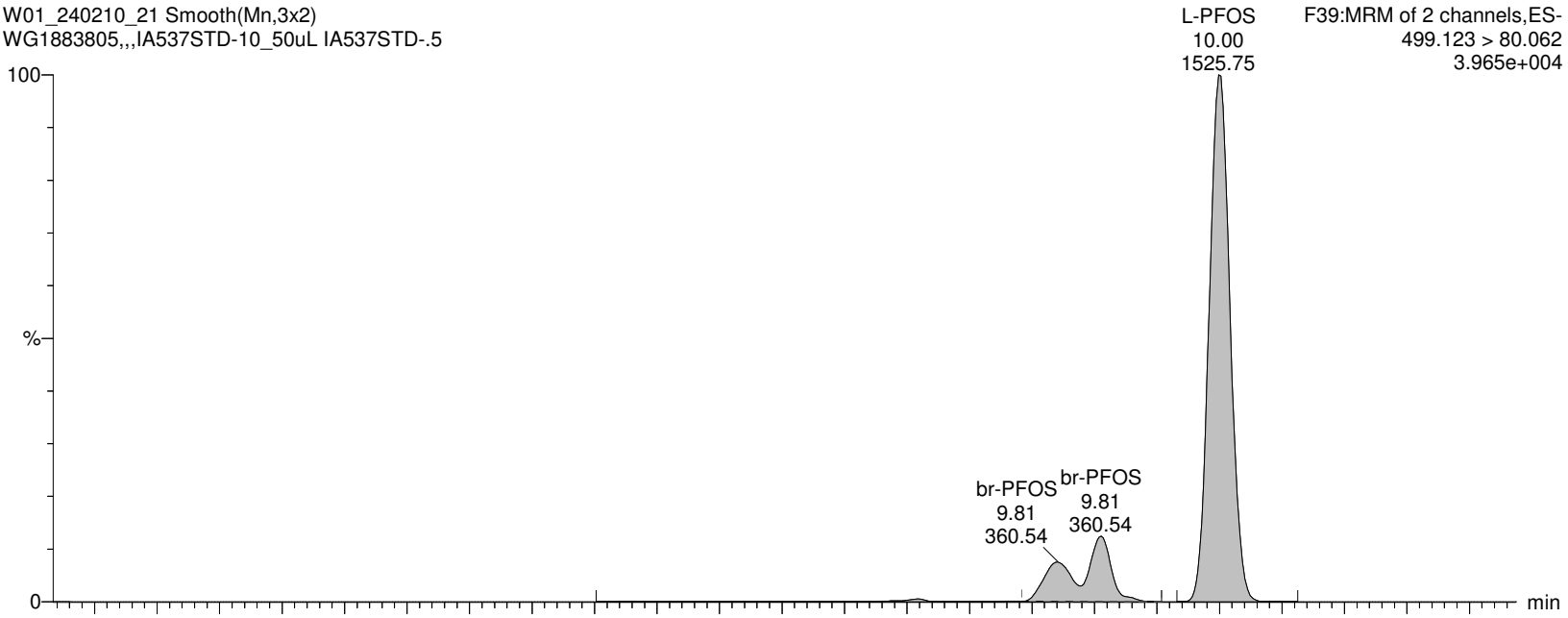

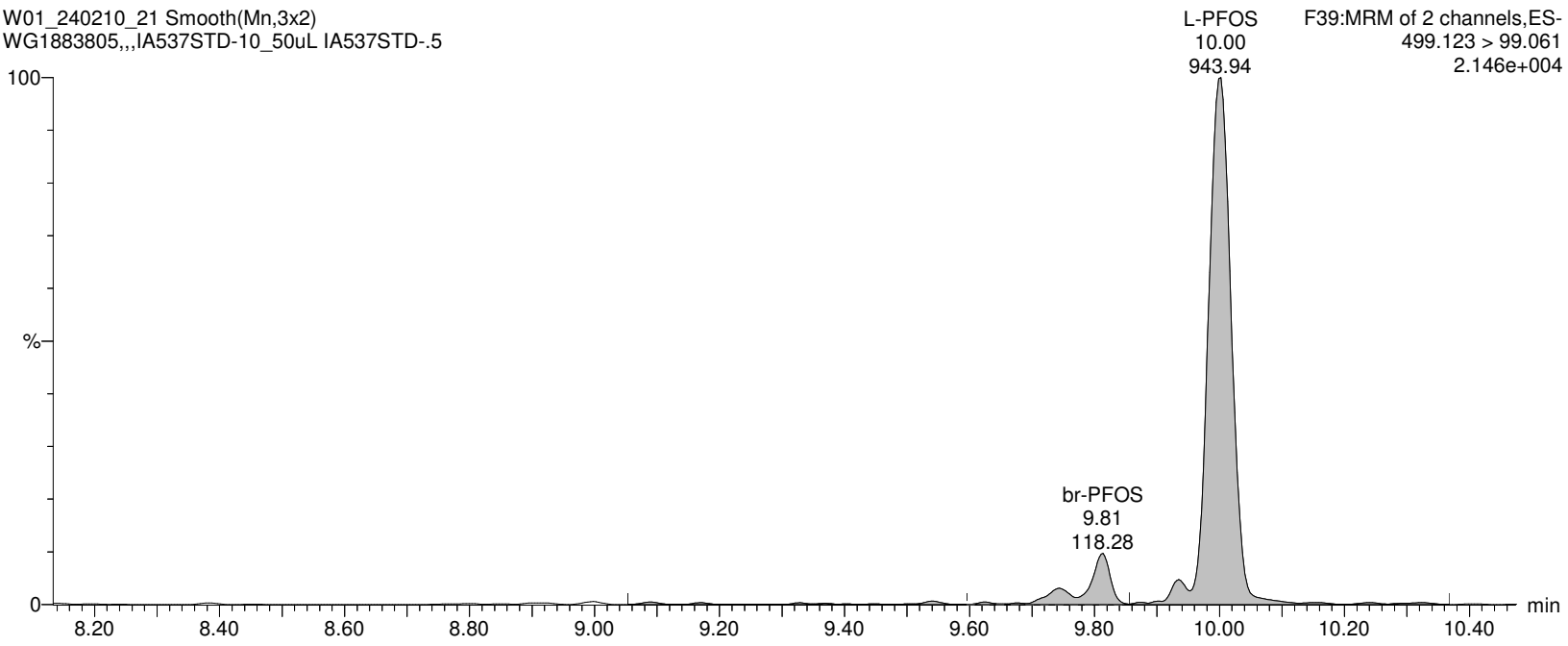

all concentration units in (ng/mL)

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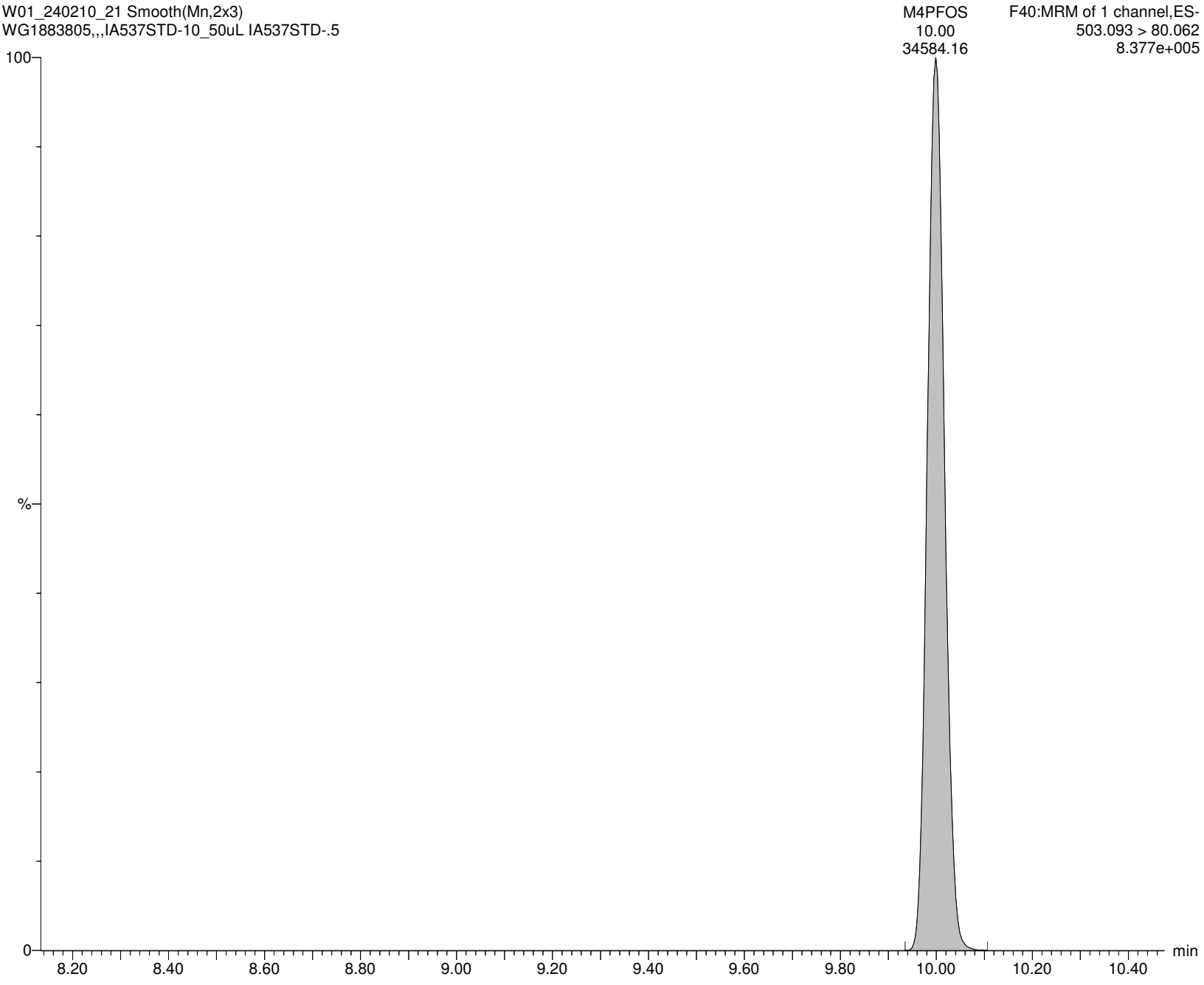

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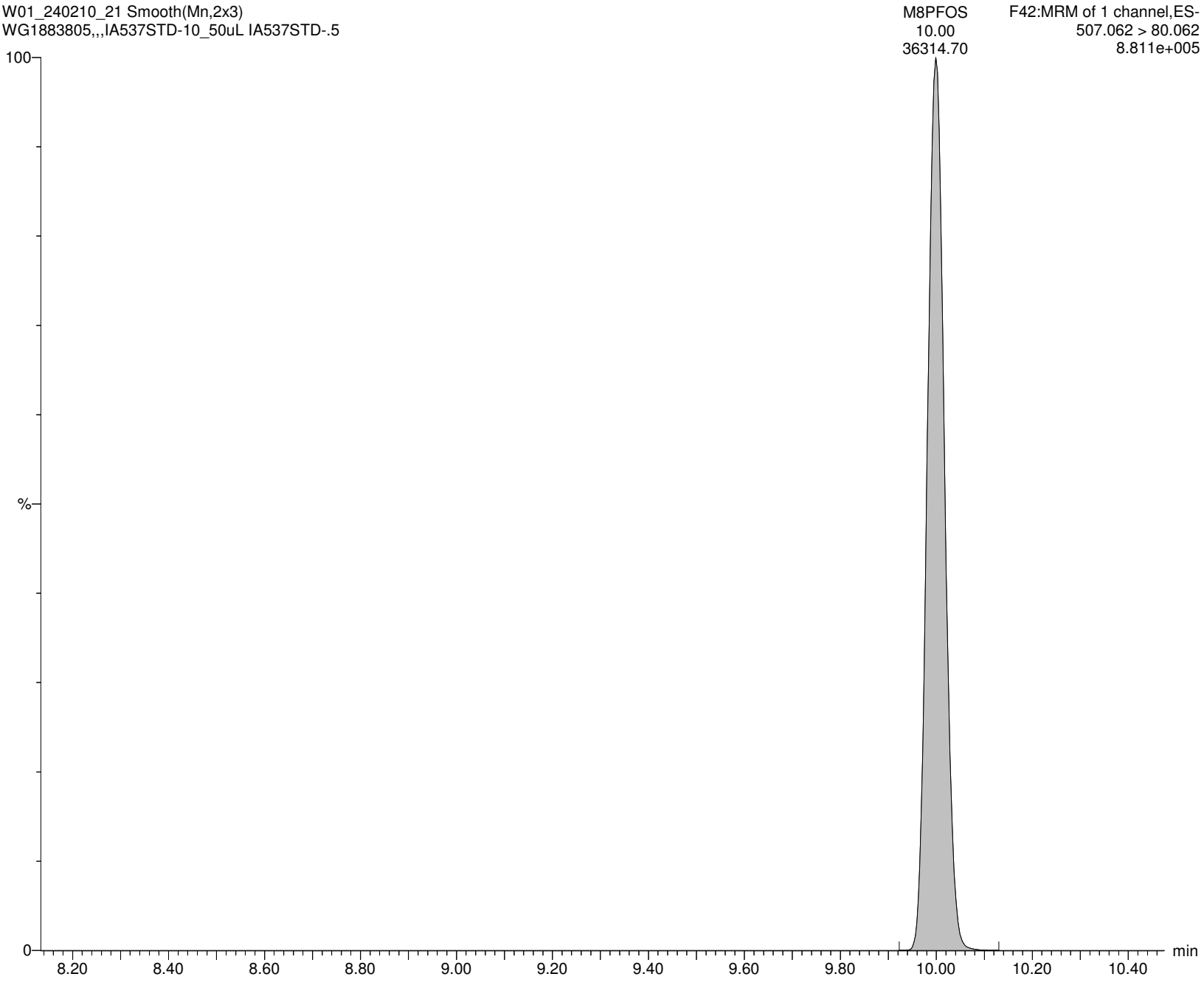

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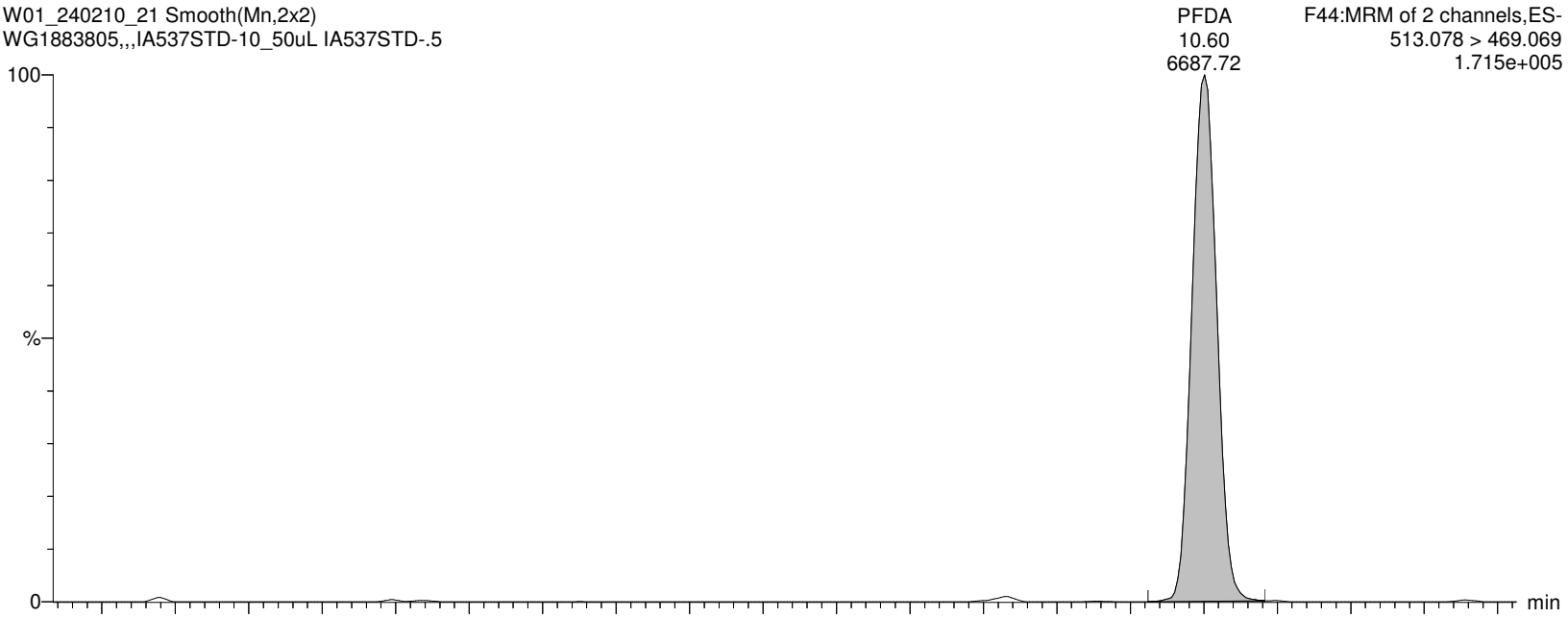

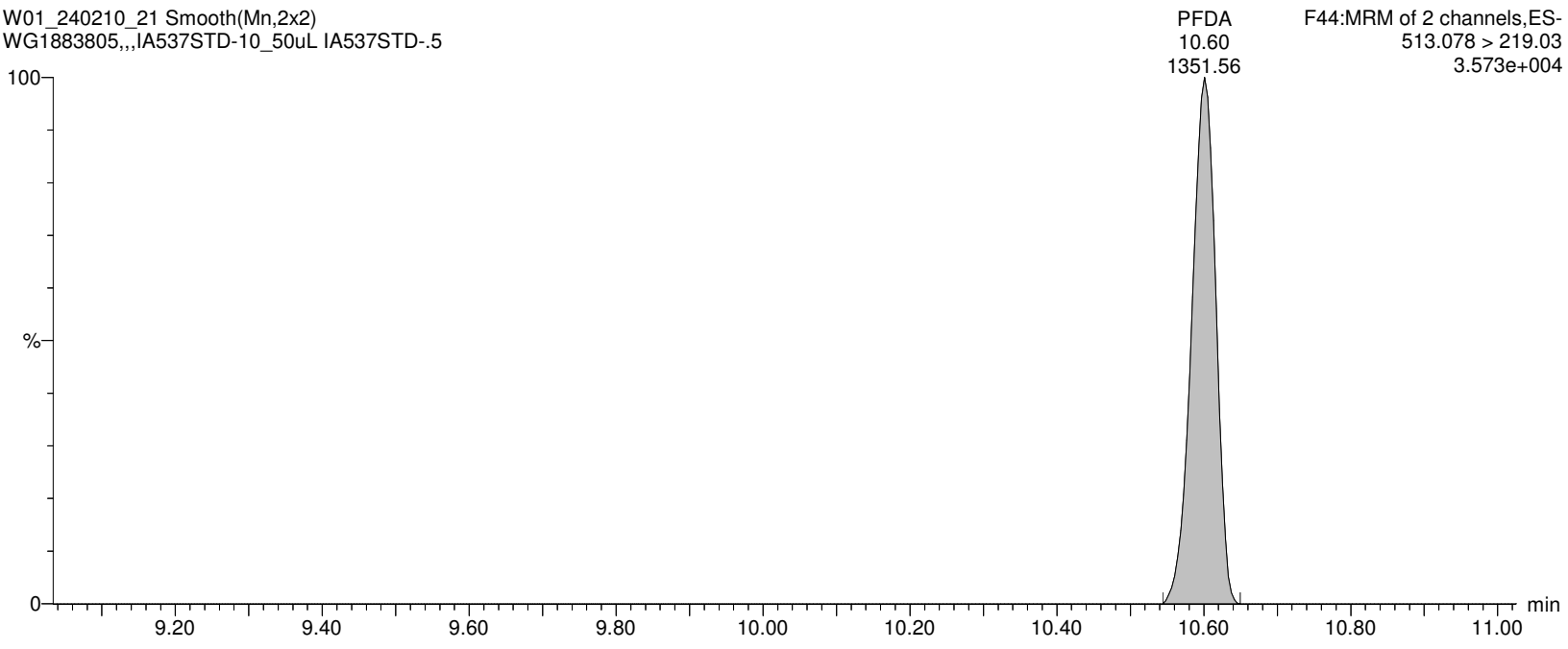

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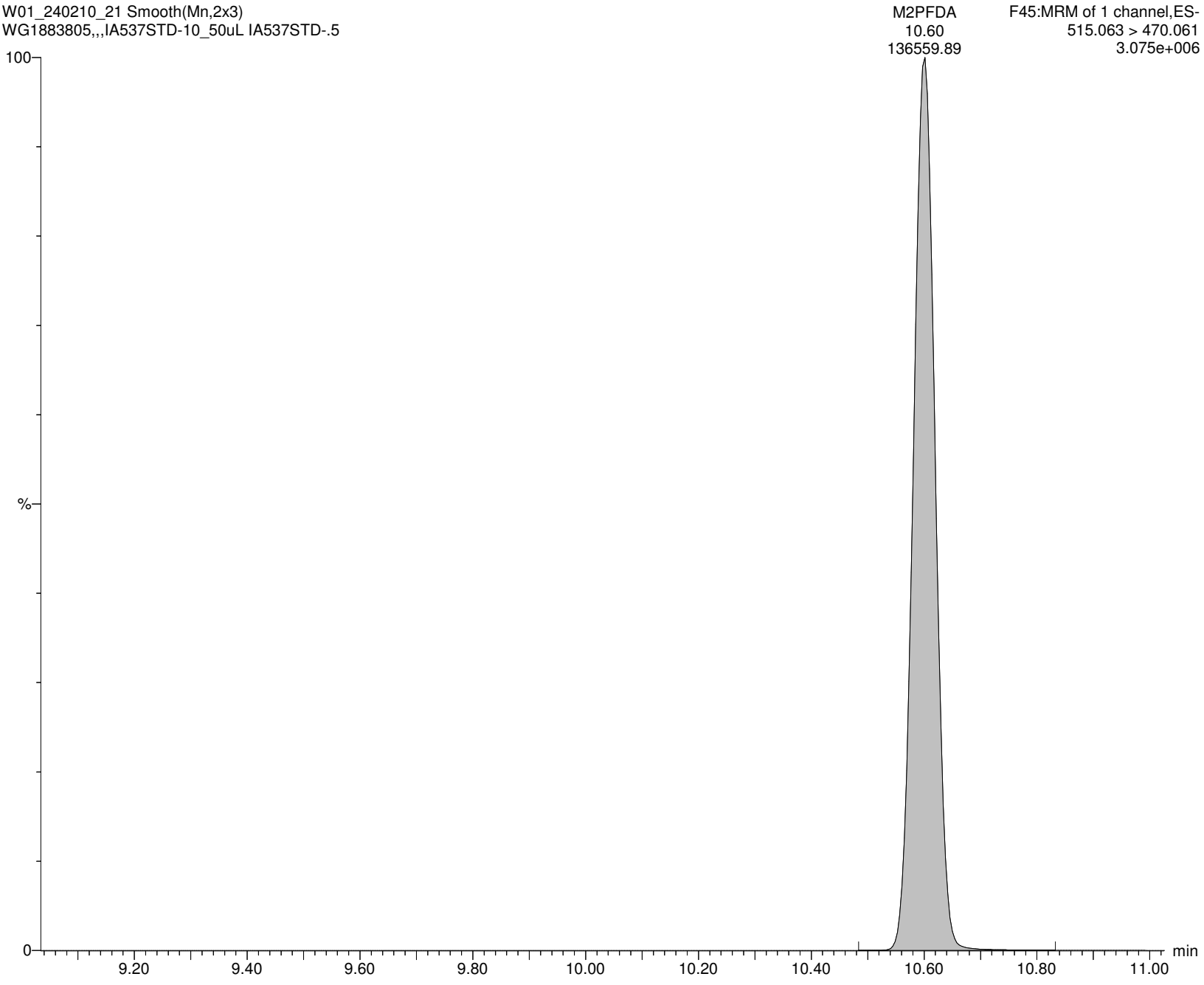

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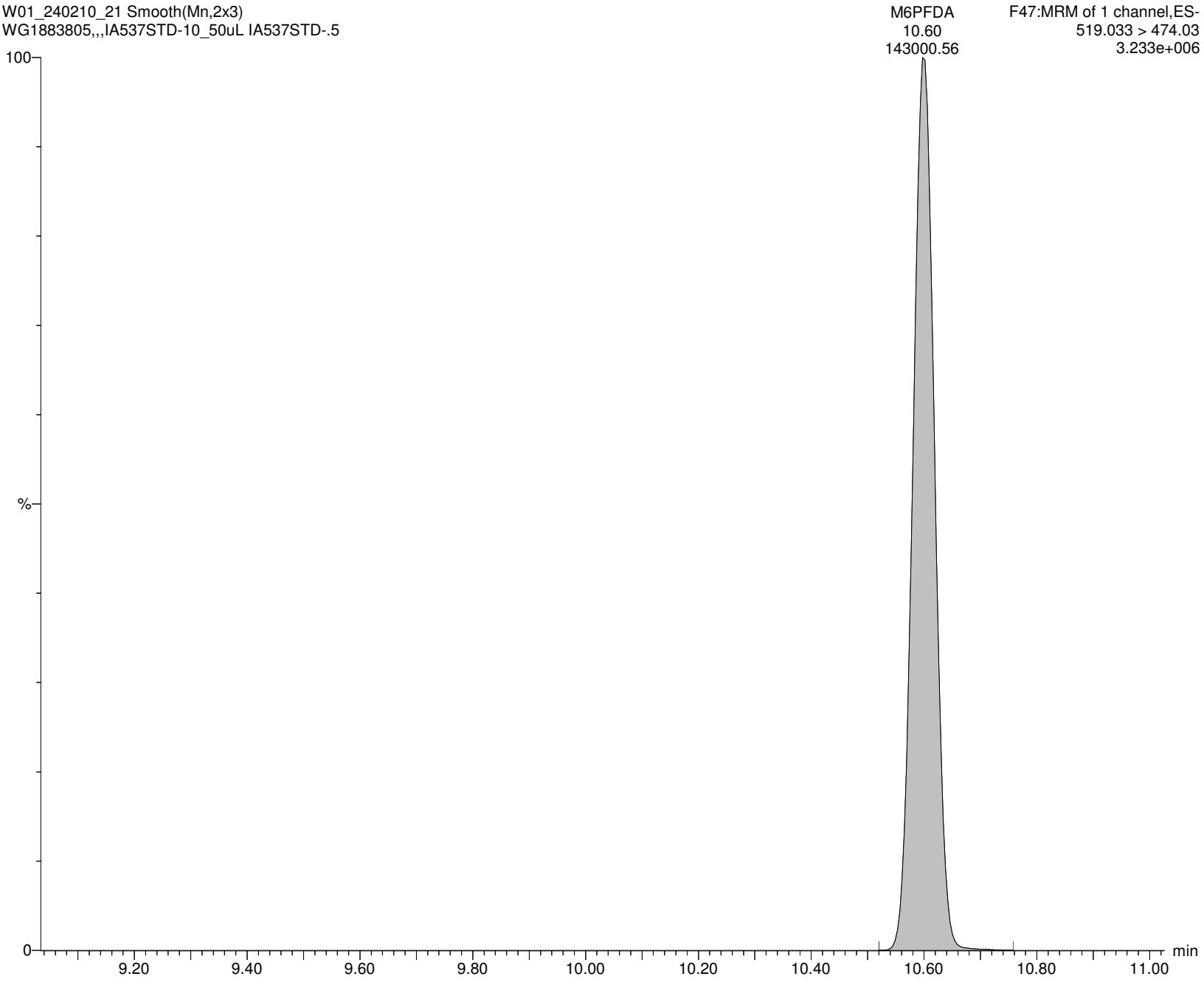

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:08 Eastern Standard Time

Name: W01_240210_21
ID: IA537STD-.5
Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
User: LCMS01:SG
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
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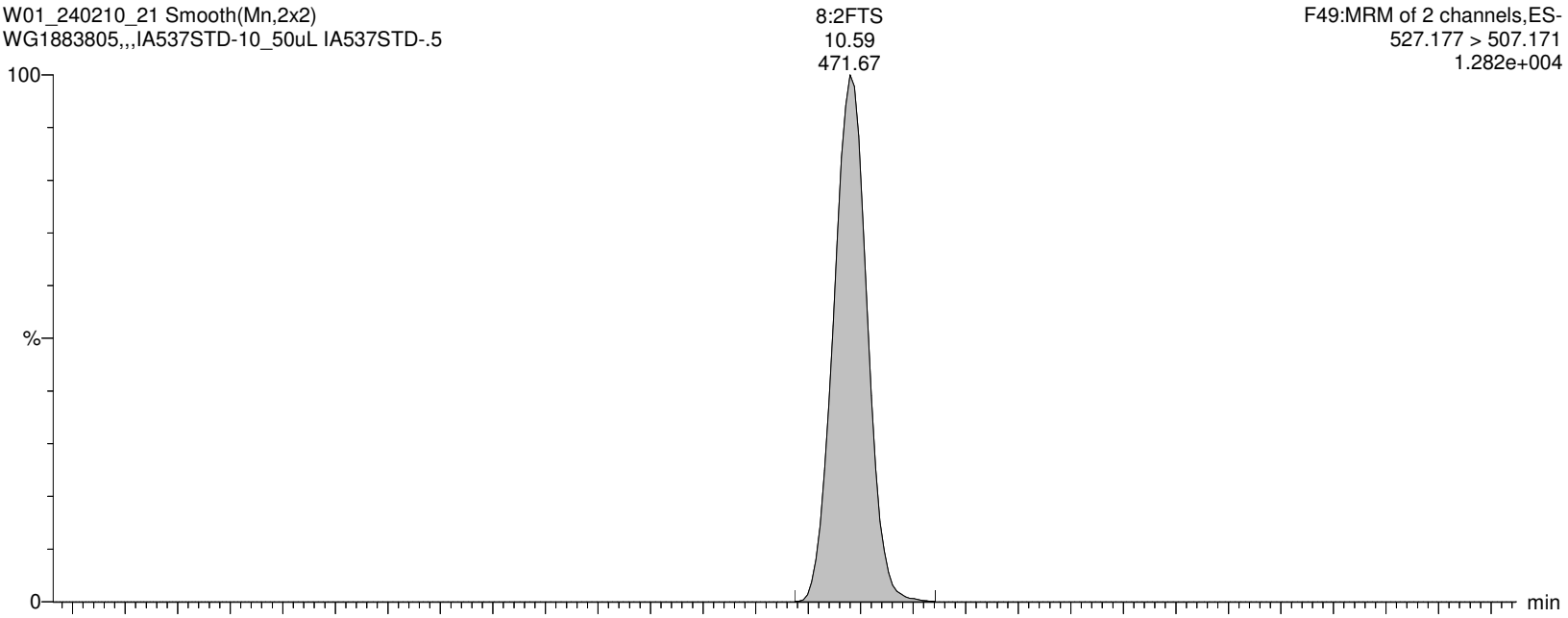

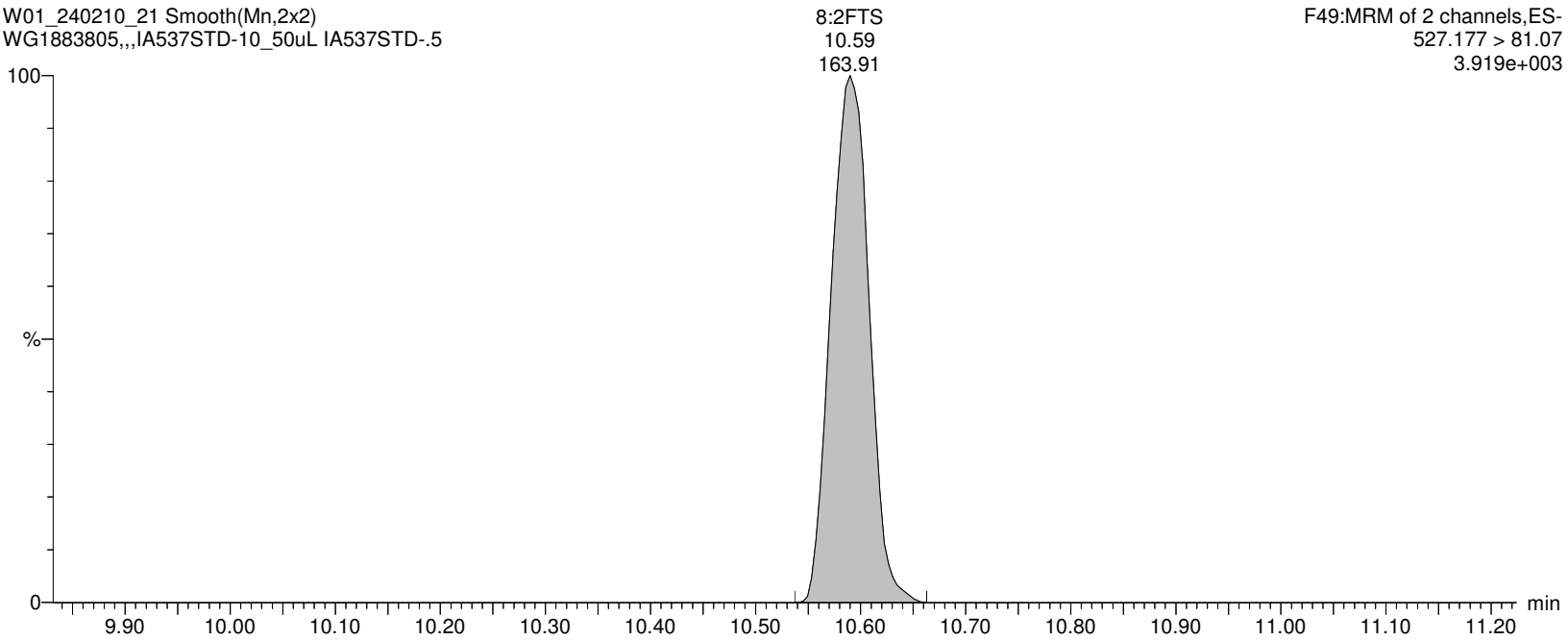

all concentration units in (ng/mL)

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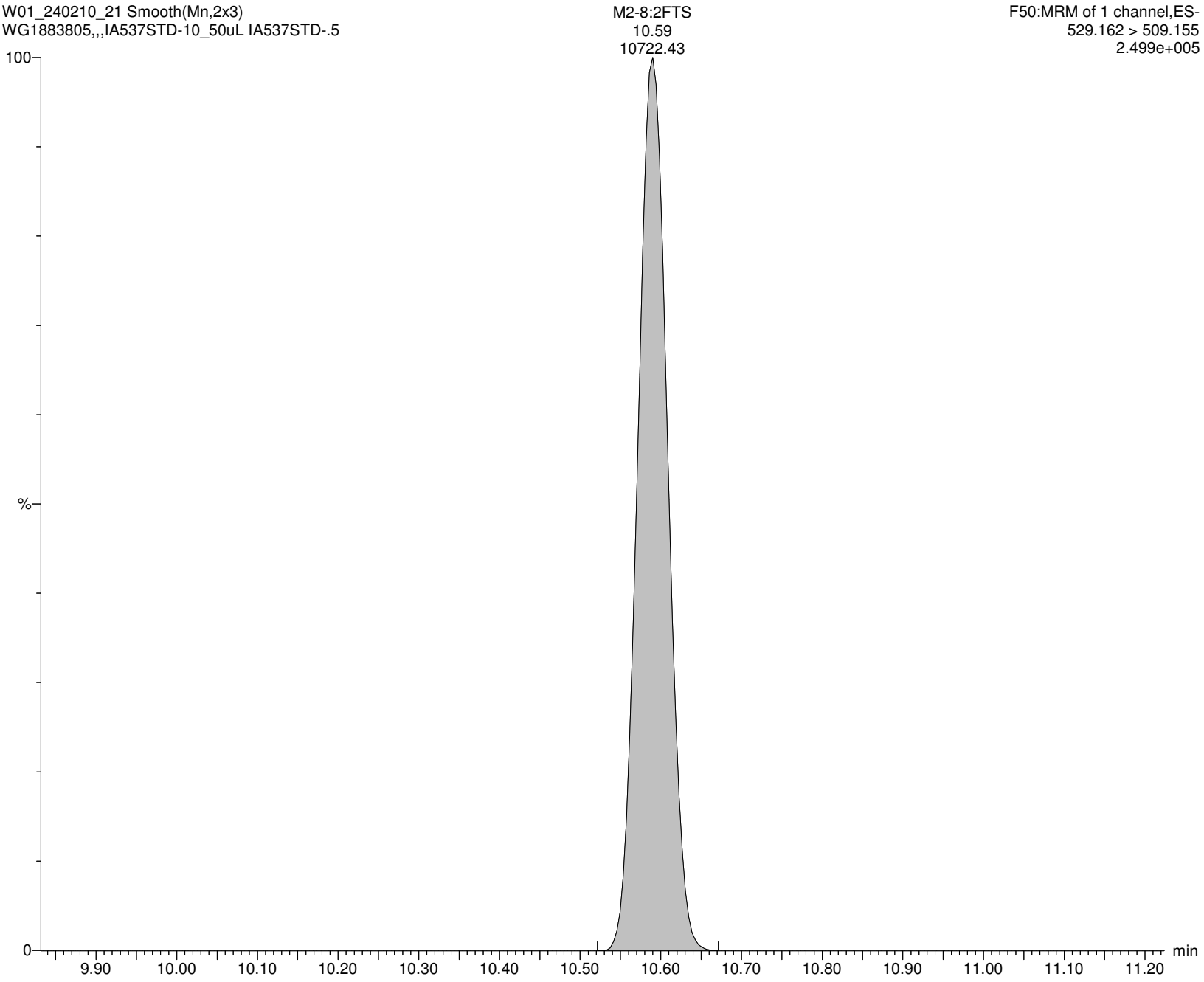

all concentration units in (ng/mL)

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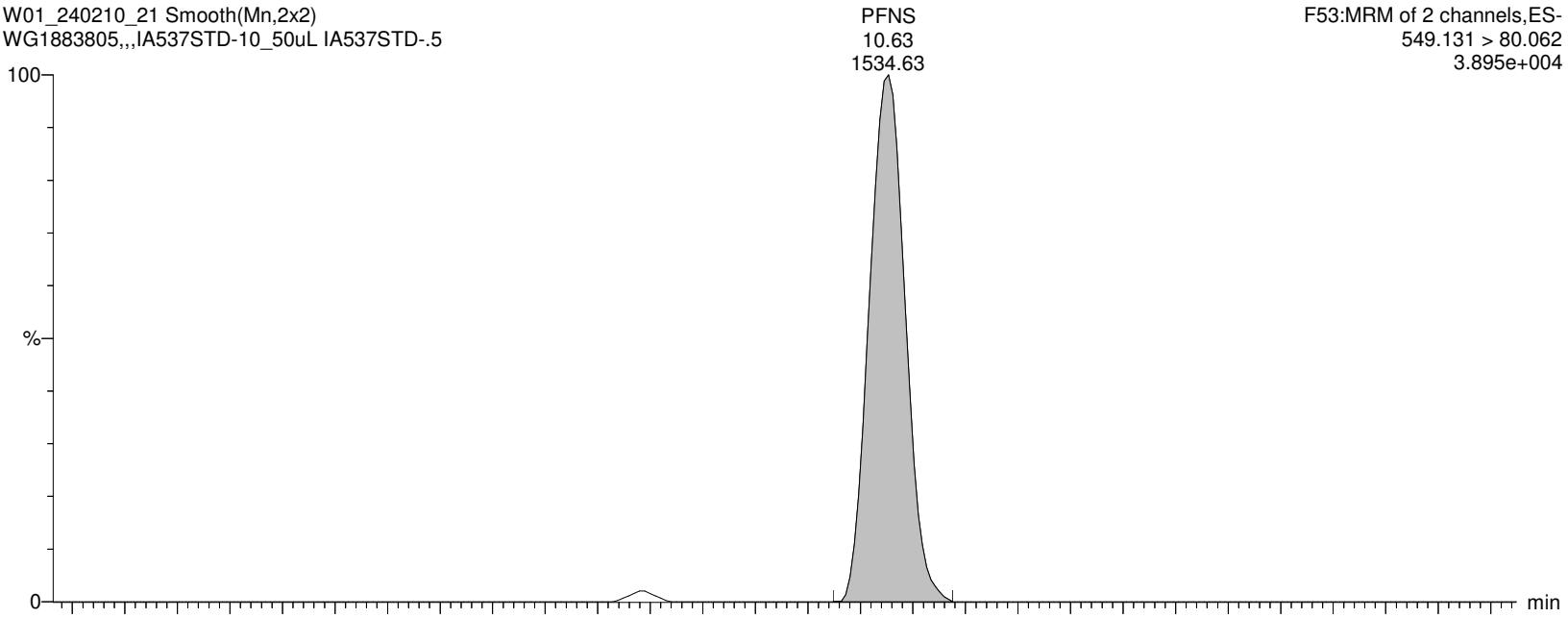
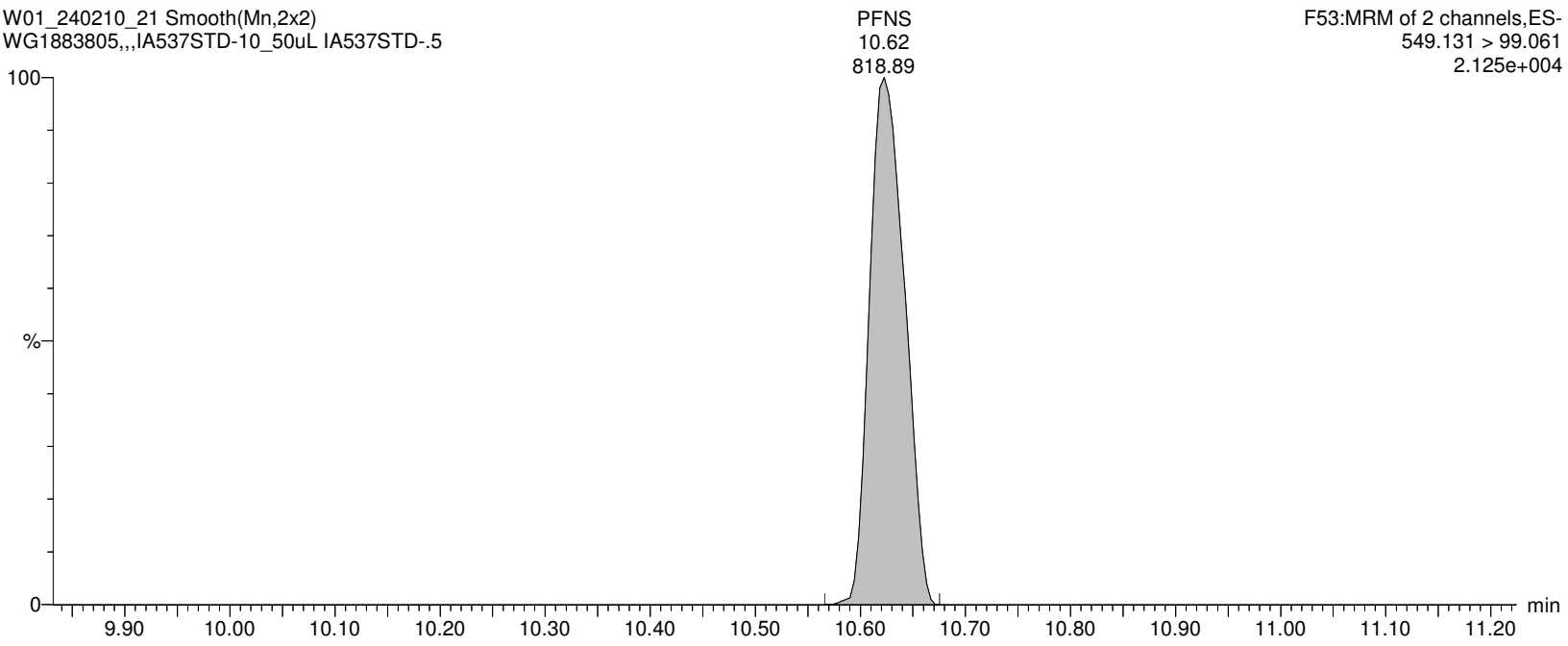
PFNS





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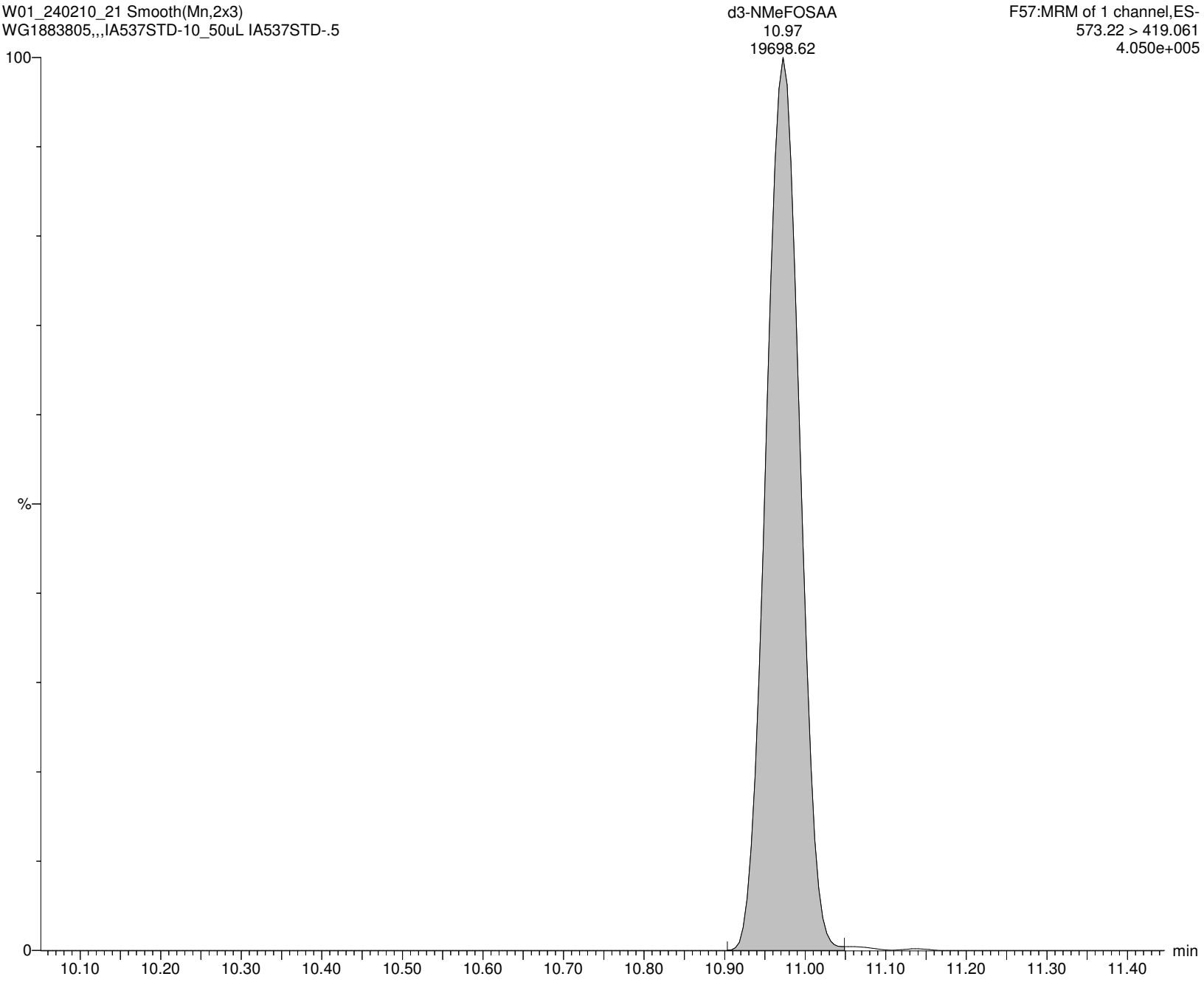
d3-NMeFOSAA



all concentration units in (ng/mL)

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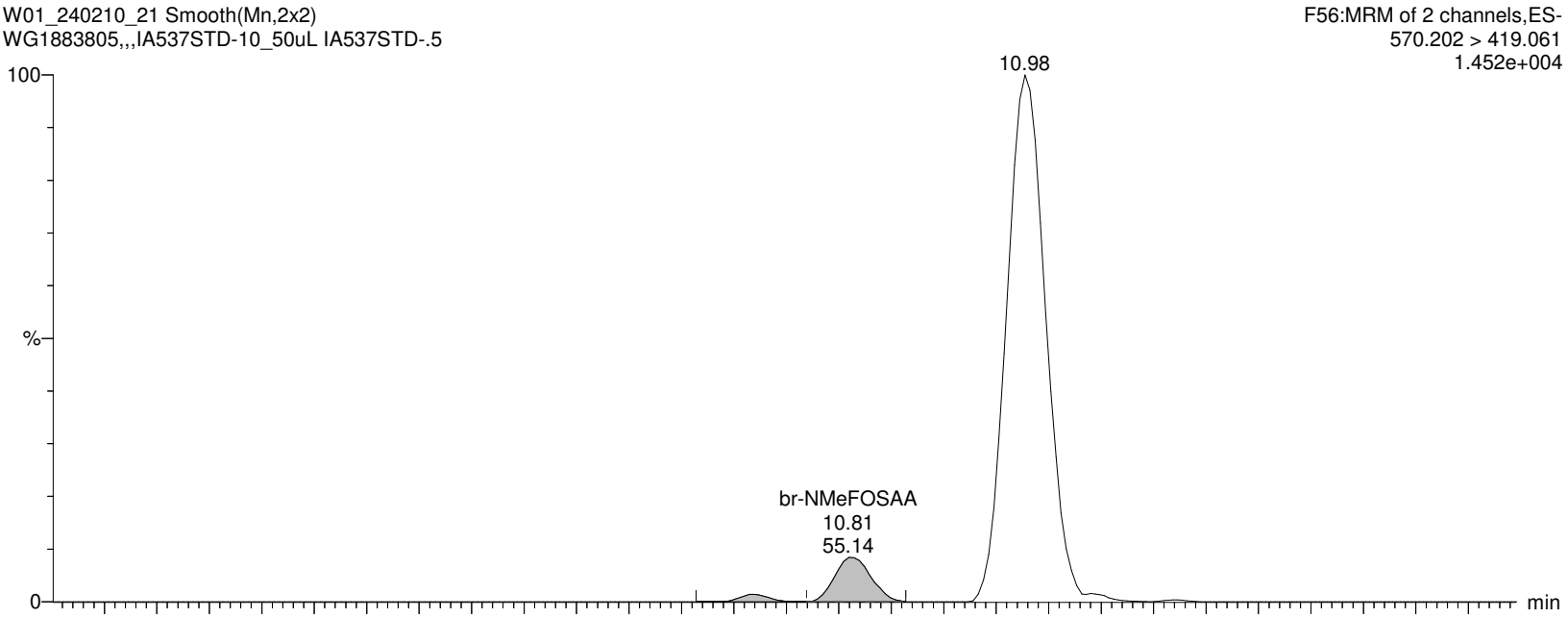
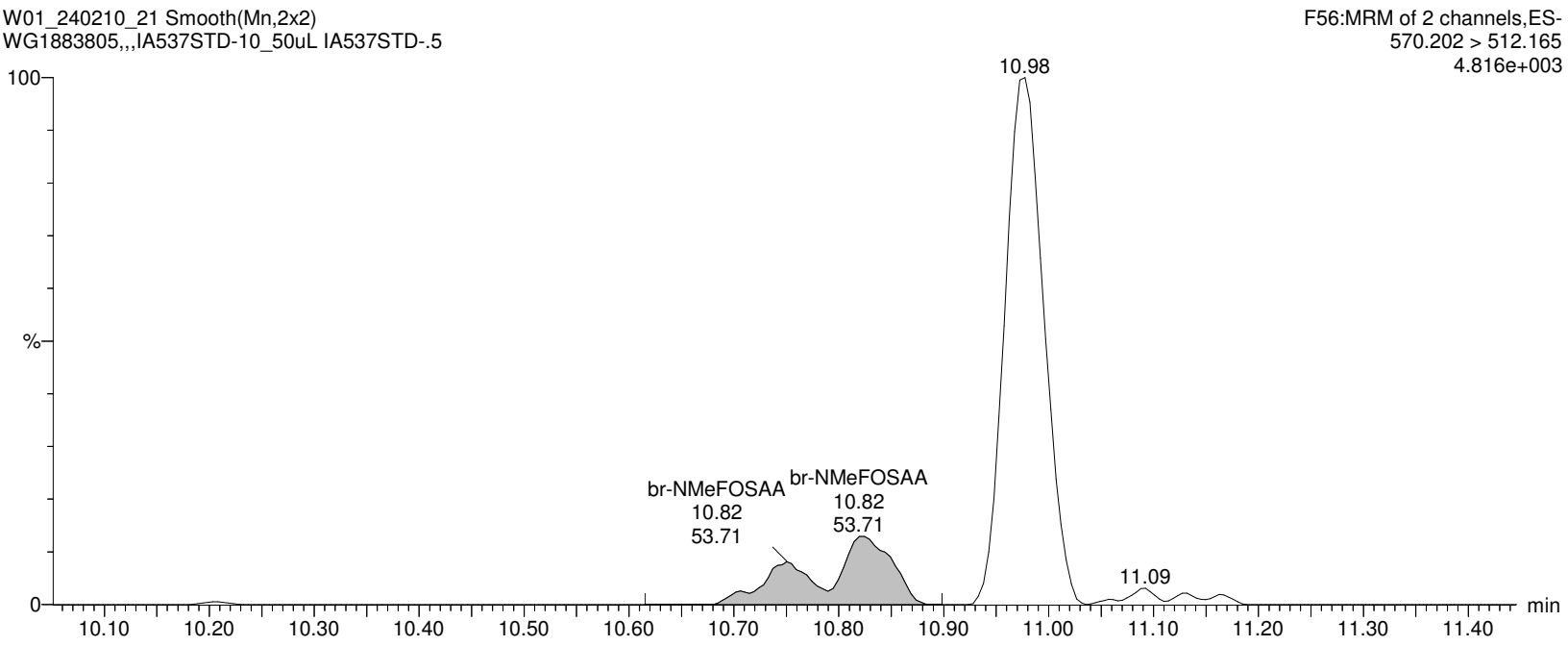
br-NMeFOSAA





all concentration units in (ng/mL)

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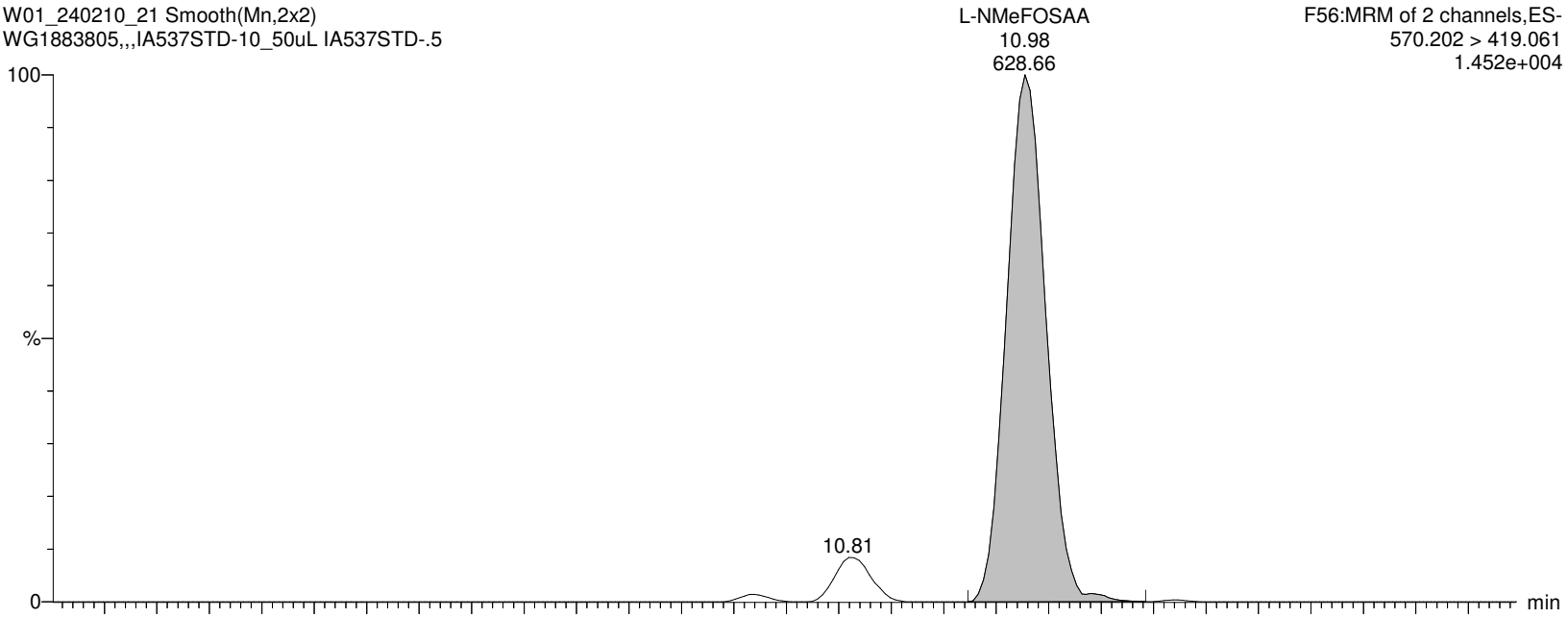

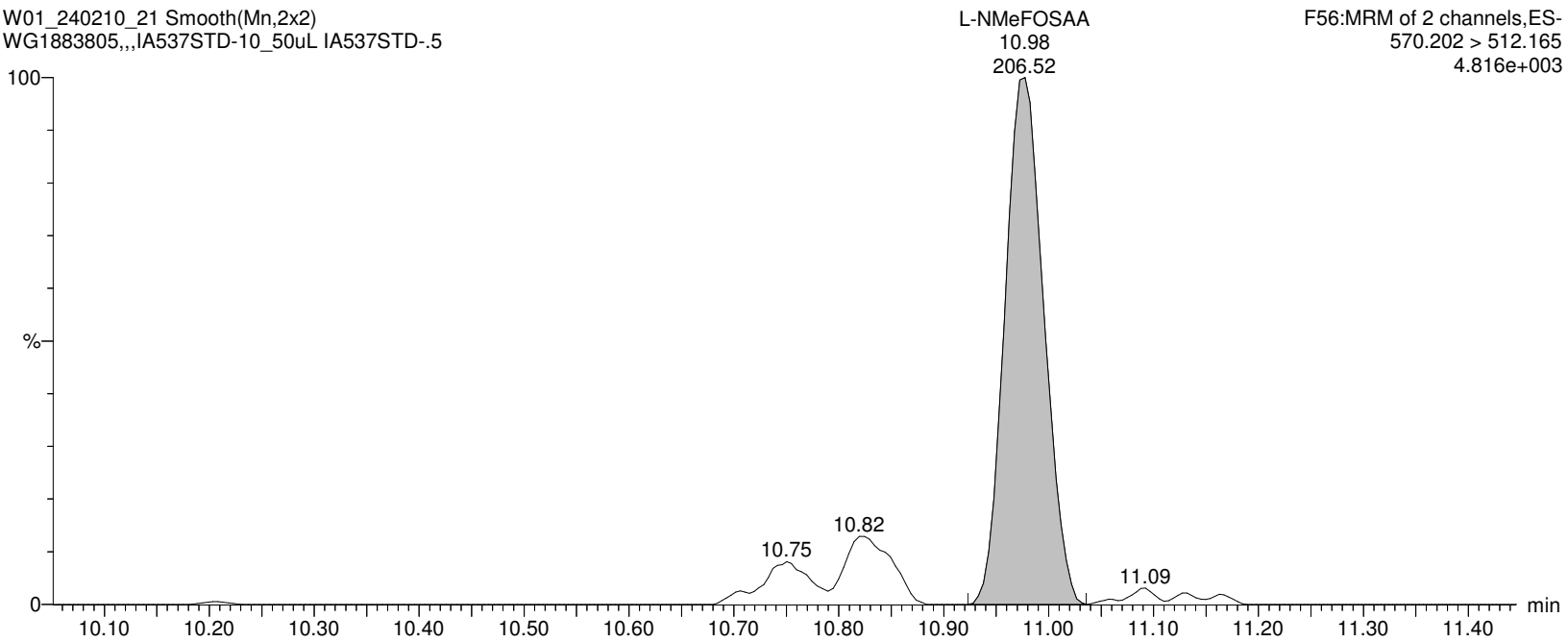

all concentration units in (ng/mL)

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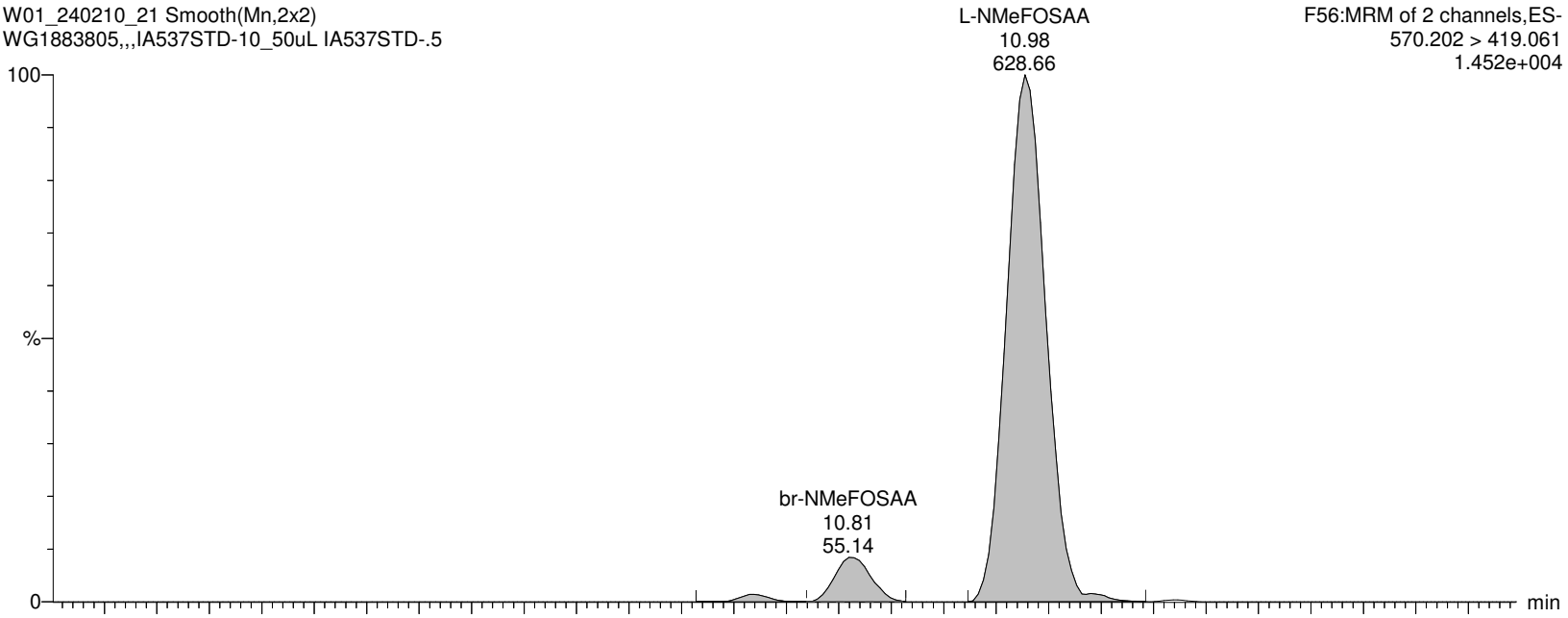

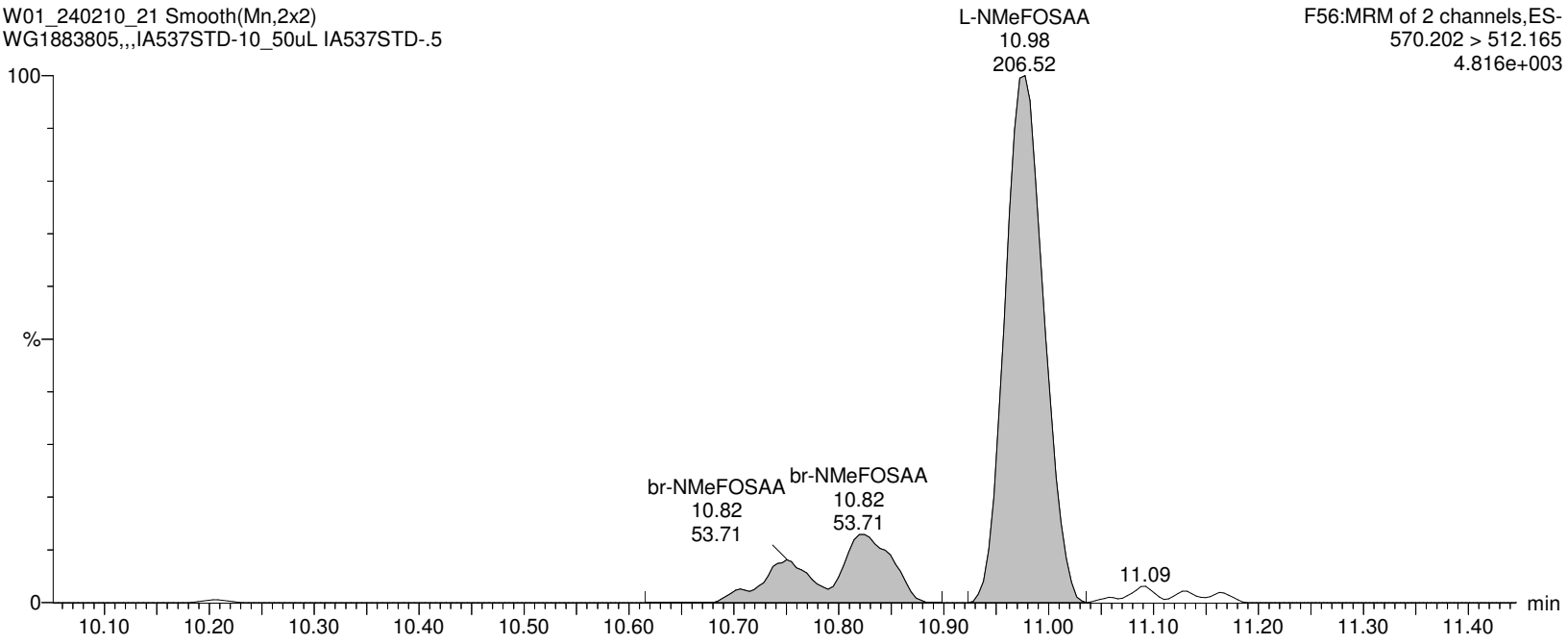

all concentration units in (ng/mL)

Alpha Analytical Inc.
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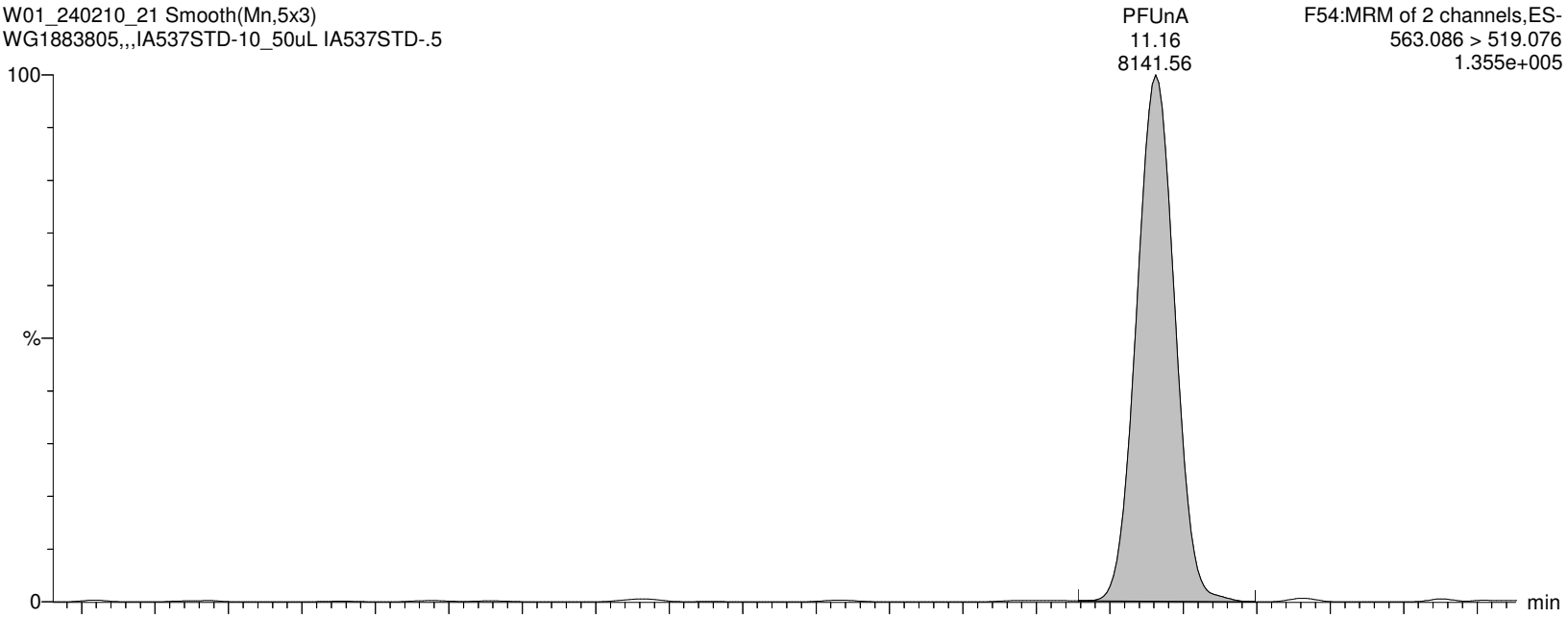

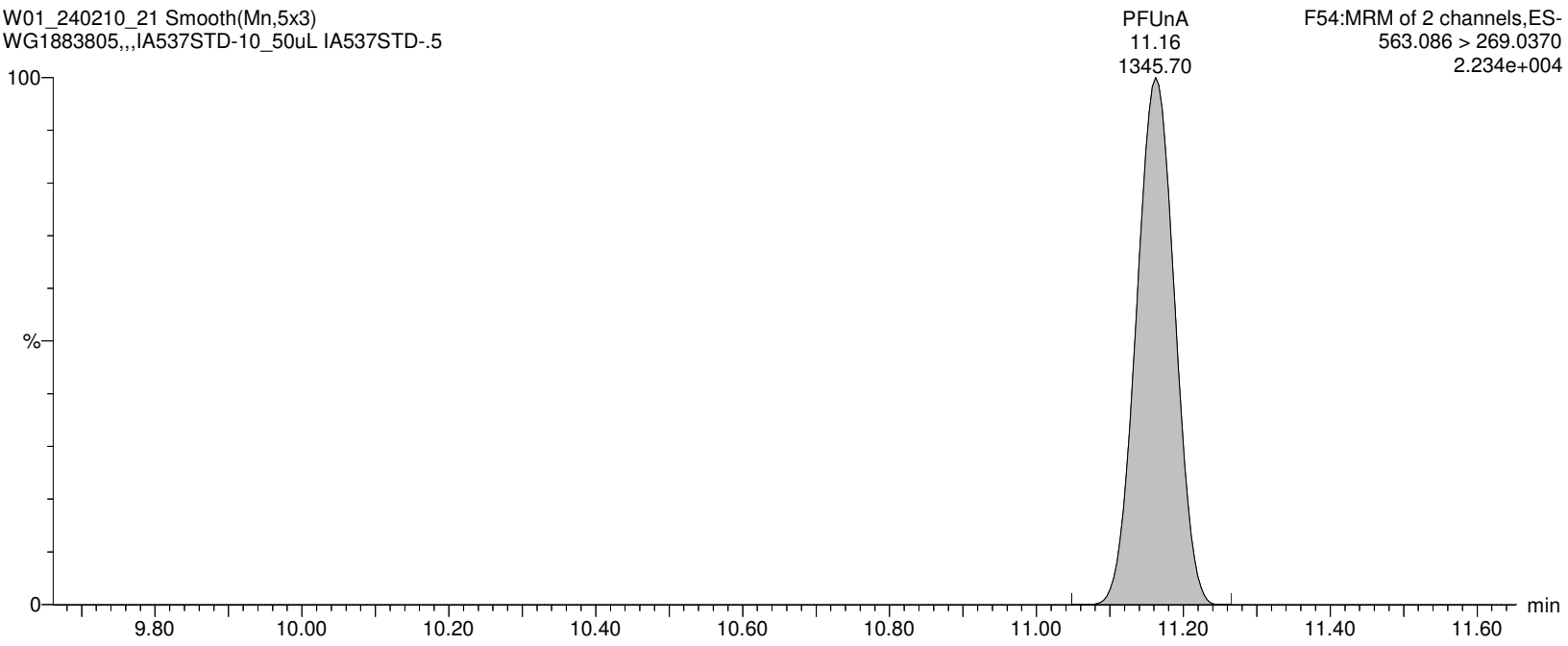

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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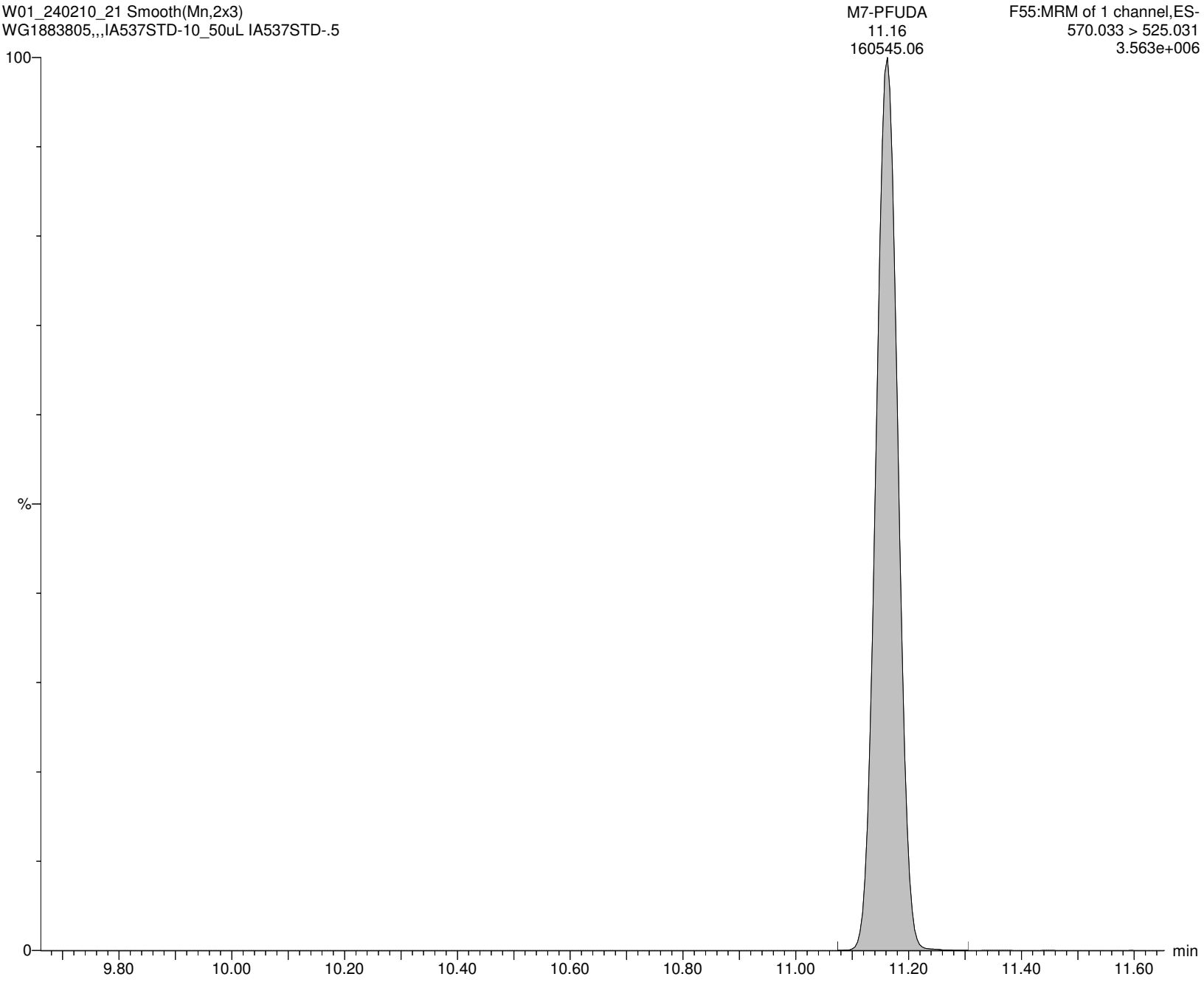

all concentration units in (ng/mL)

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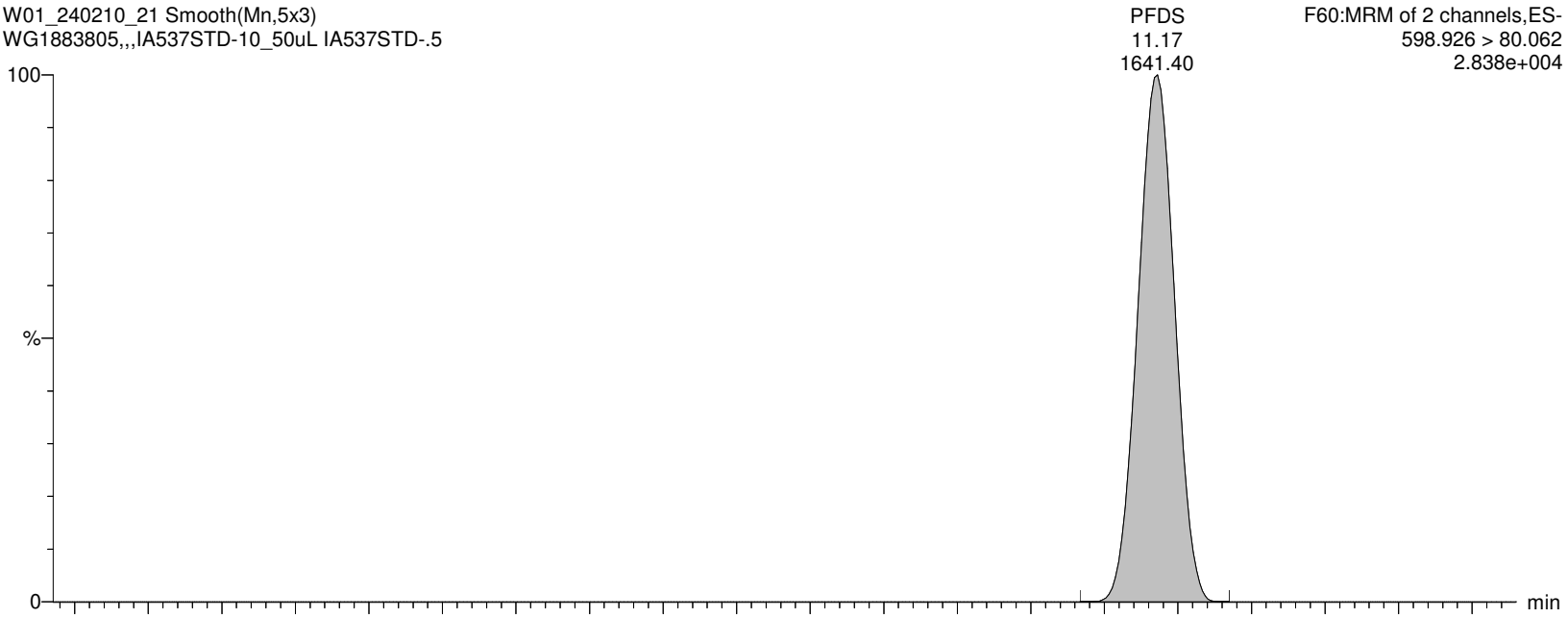

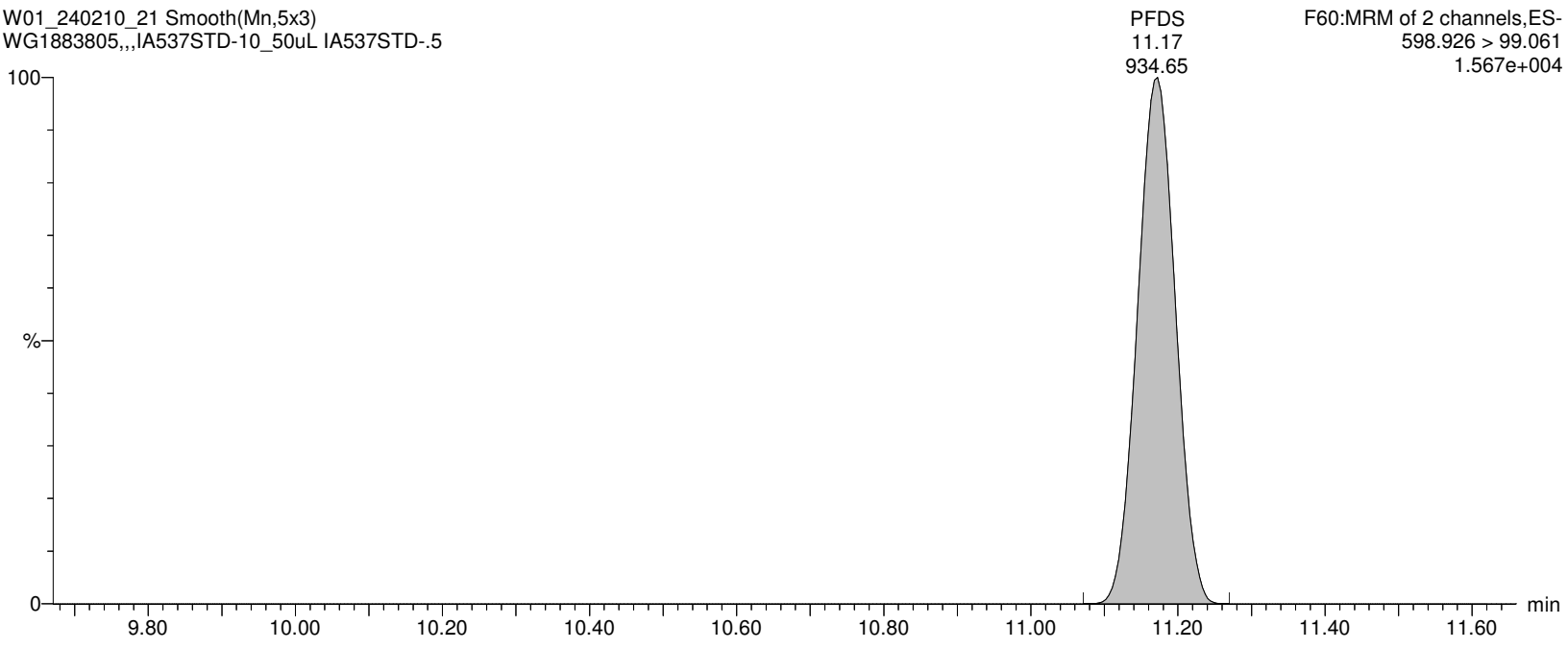

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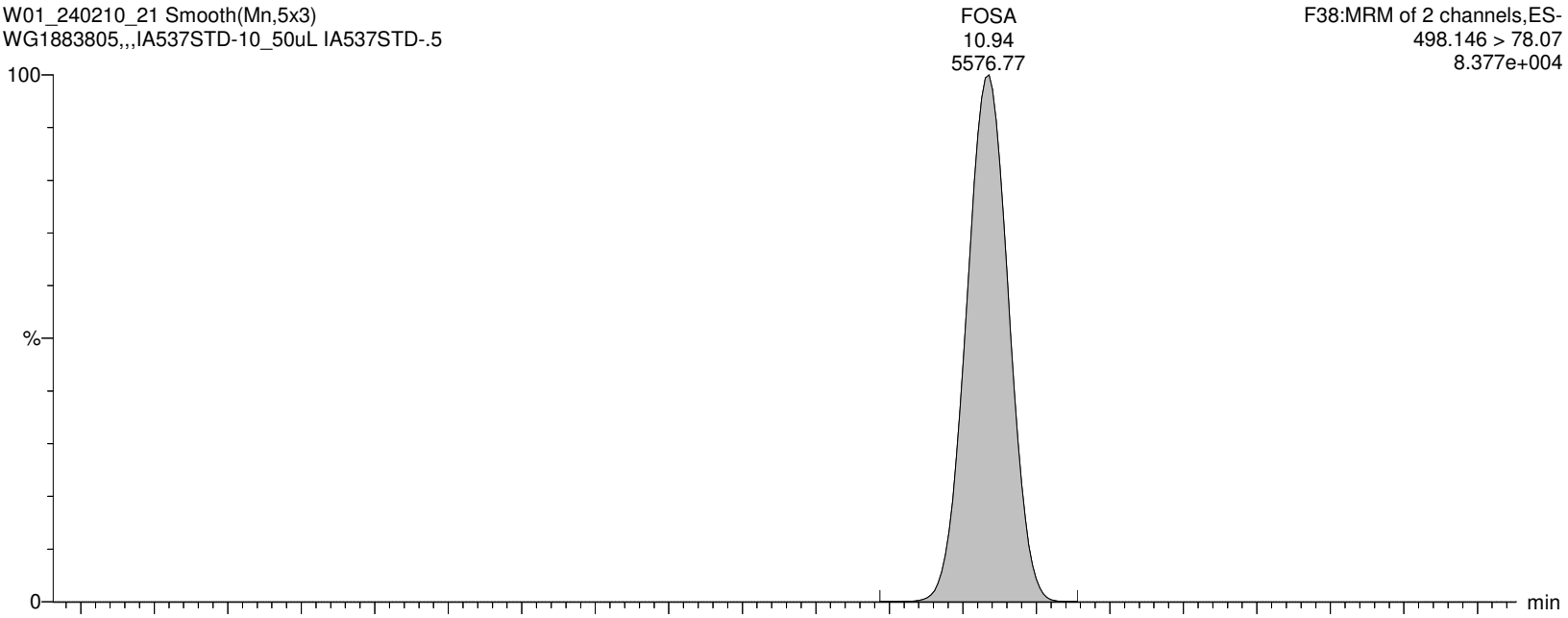

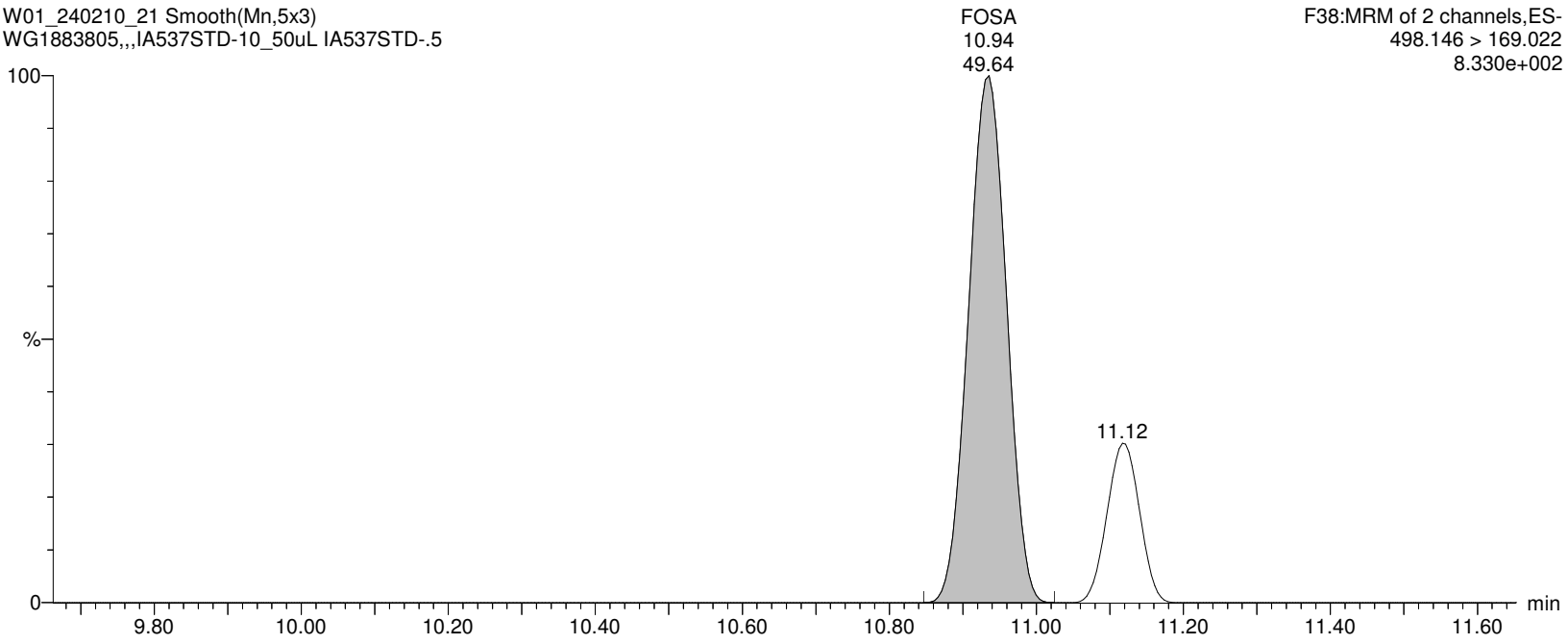

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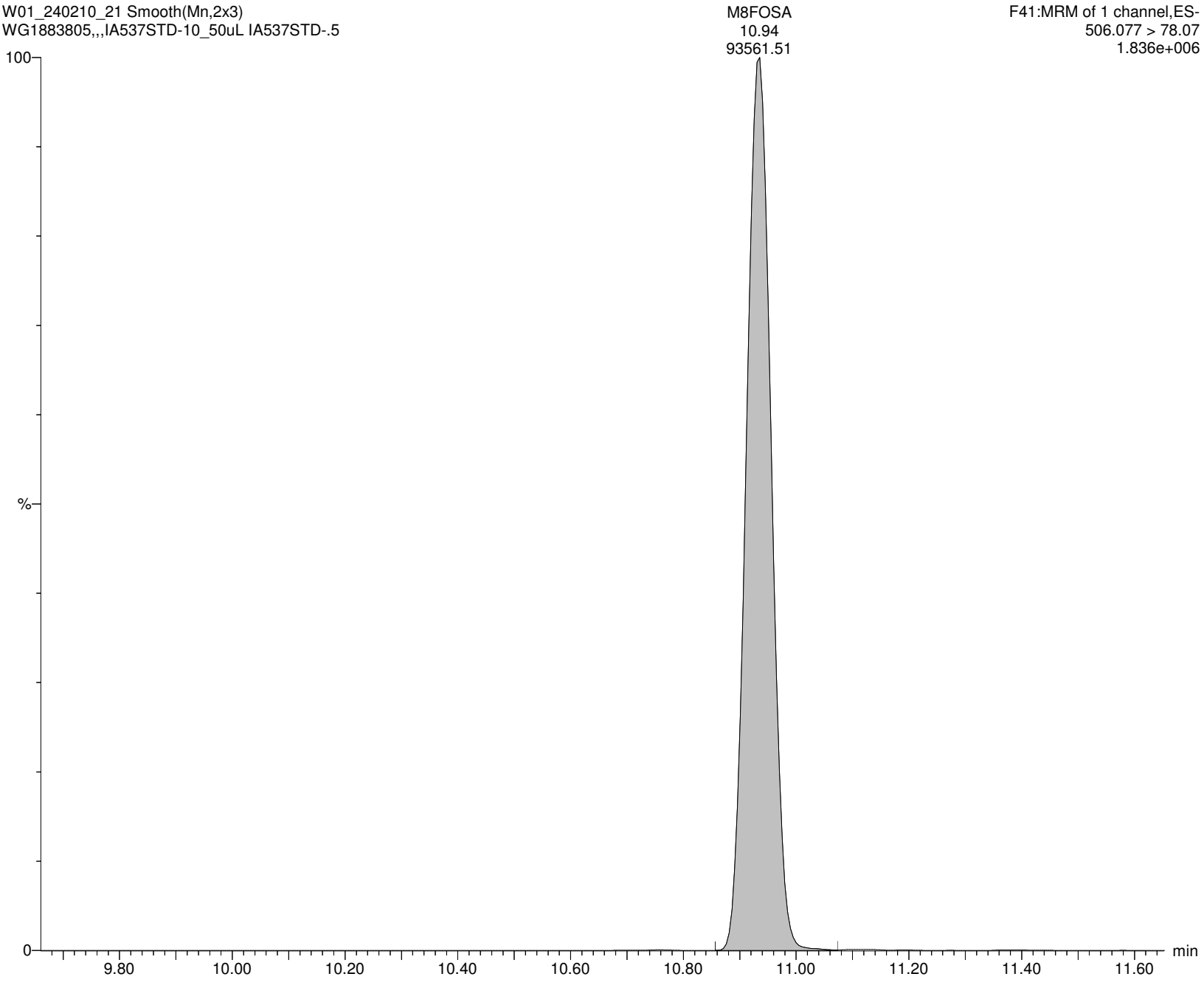
M8FOSA



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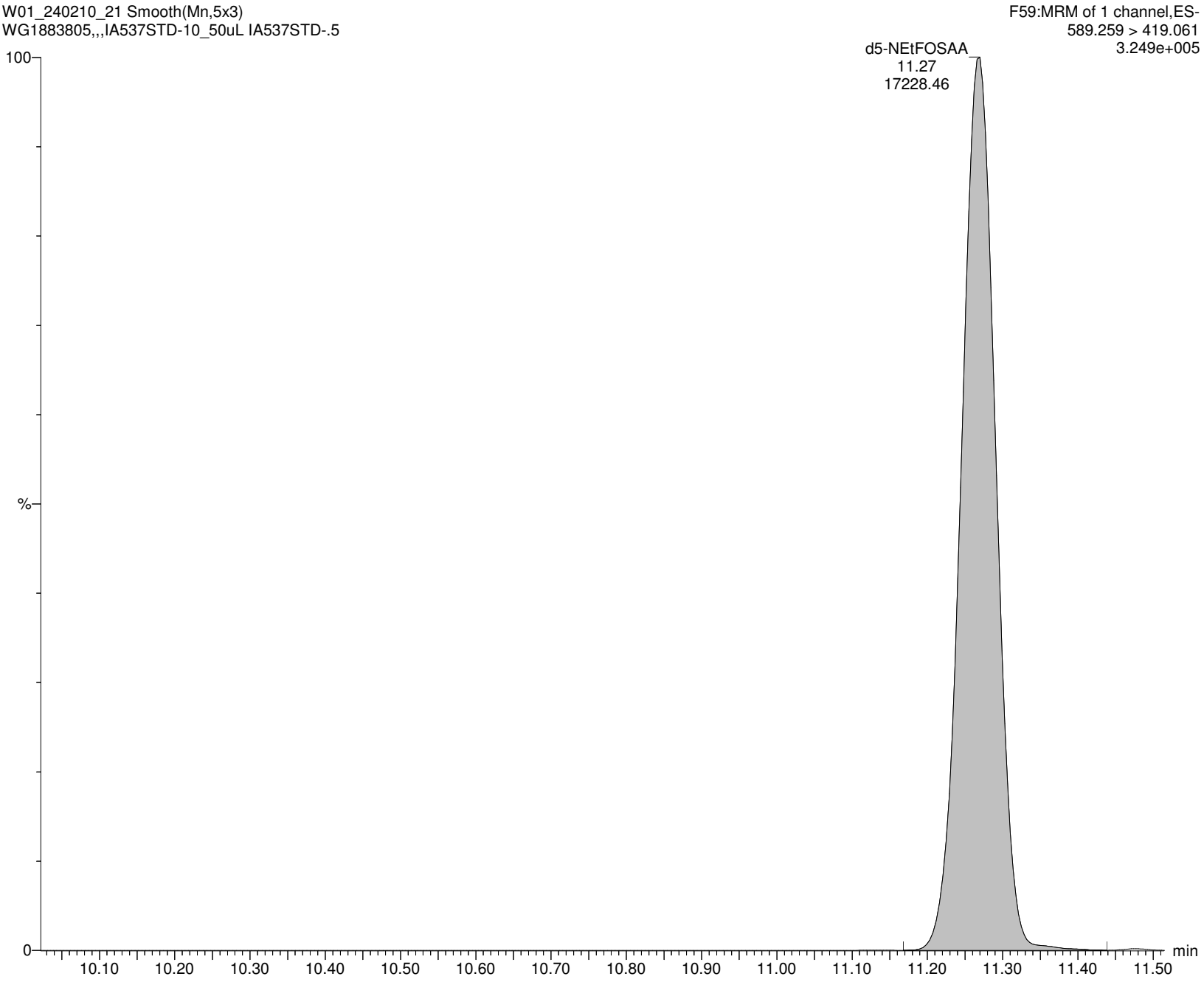

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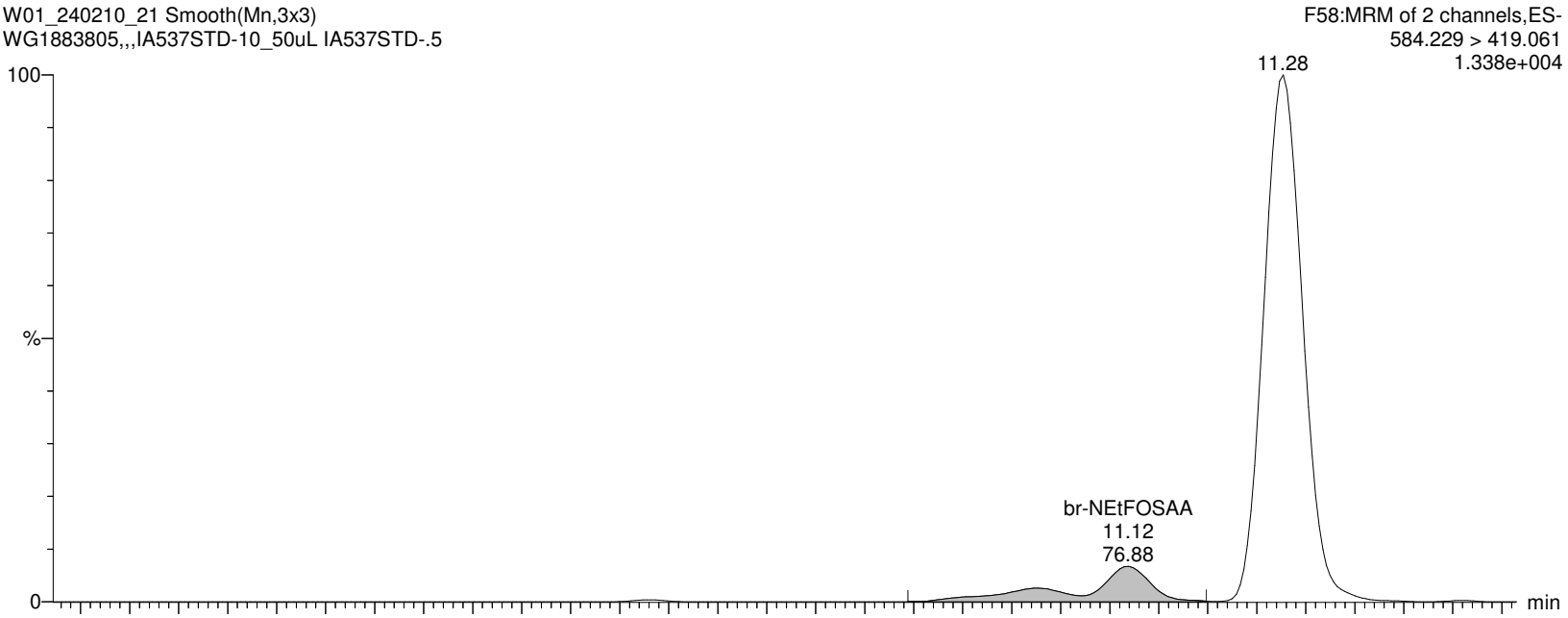

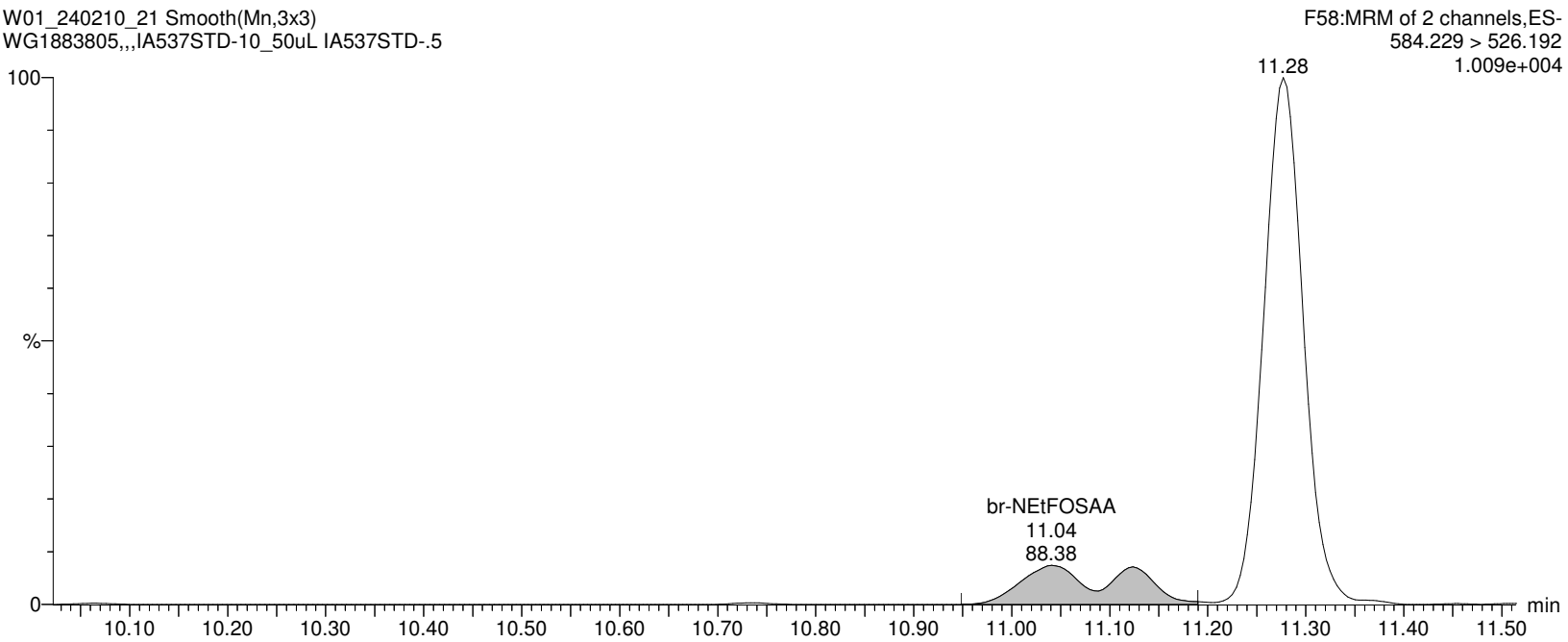

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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ID: IA537STD-.5
Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
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Vial: 1:B,1
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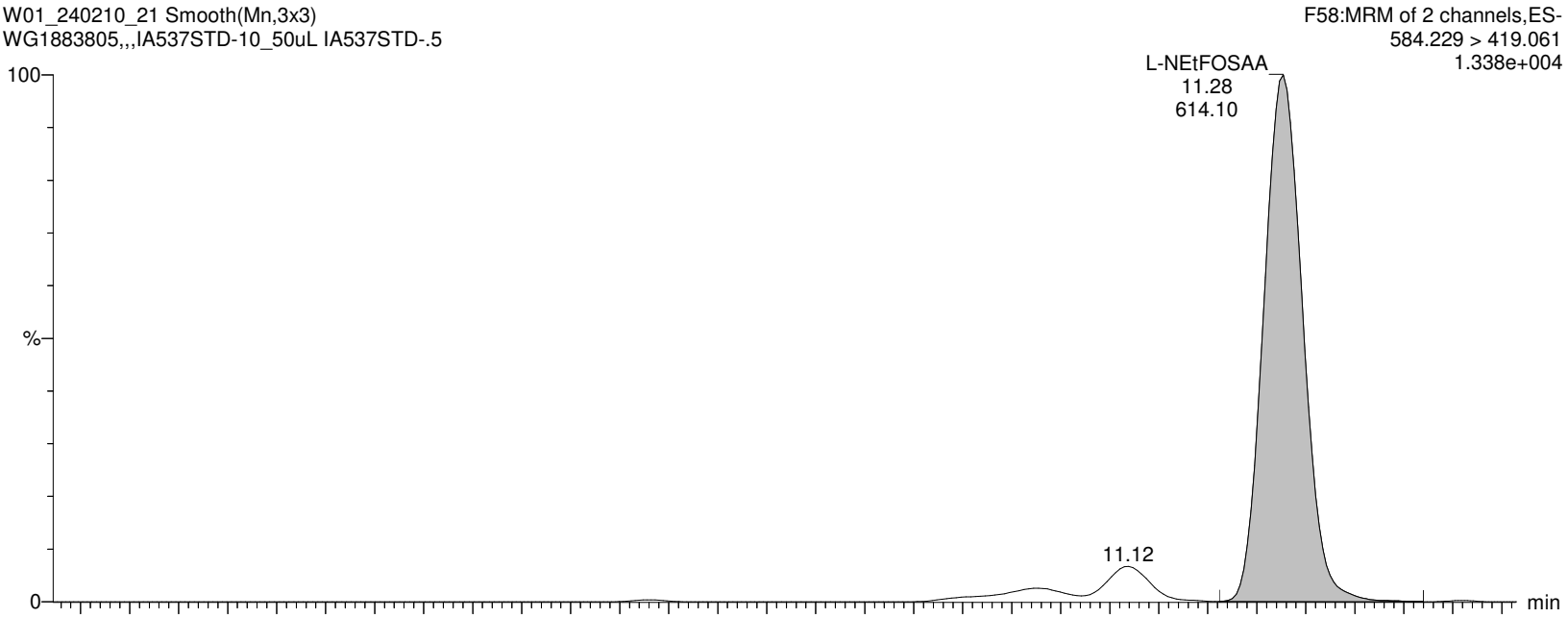

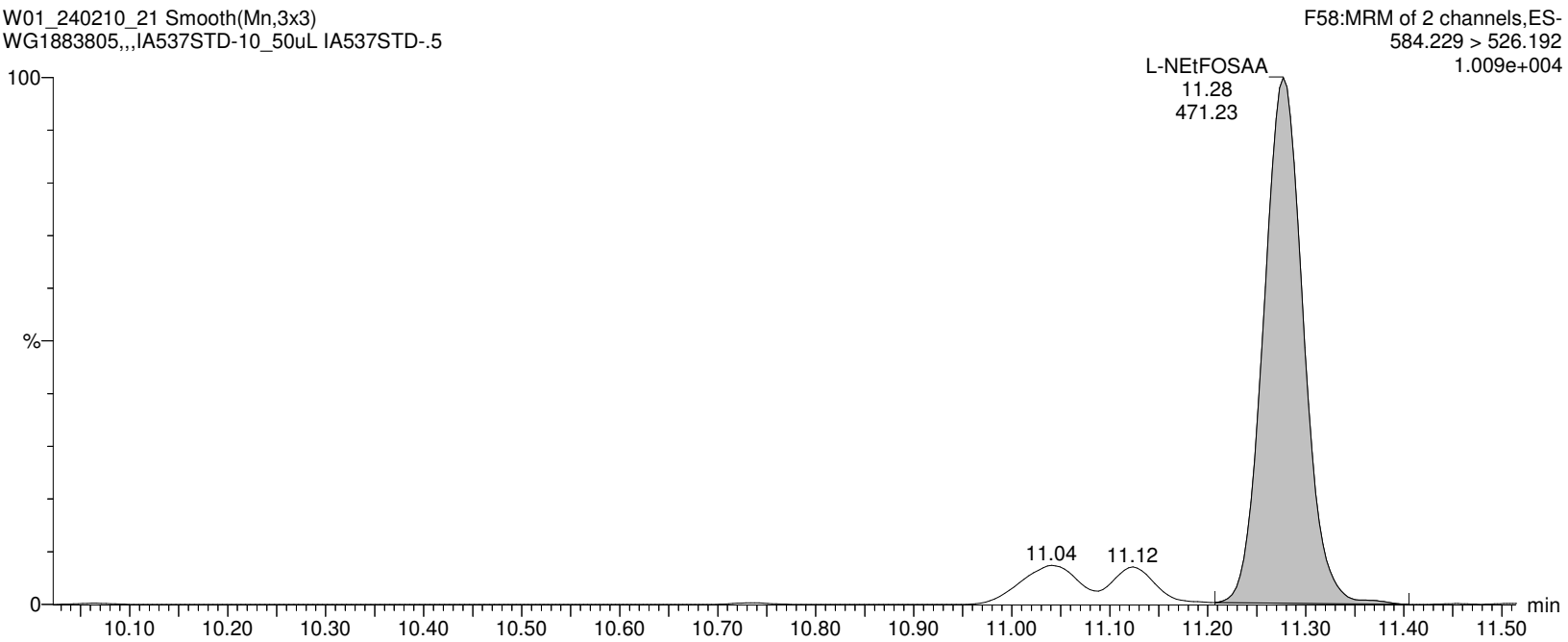

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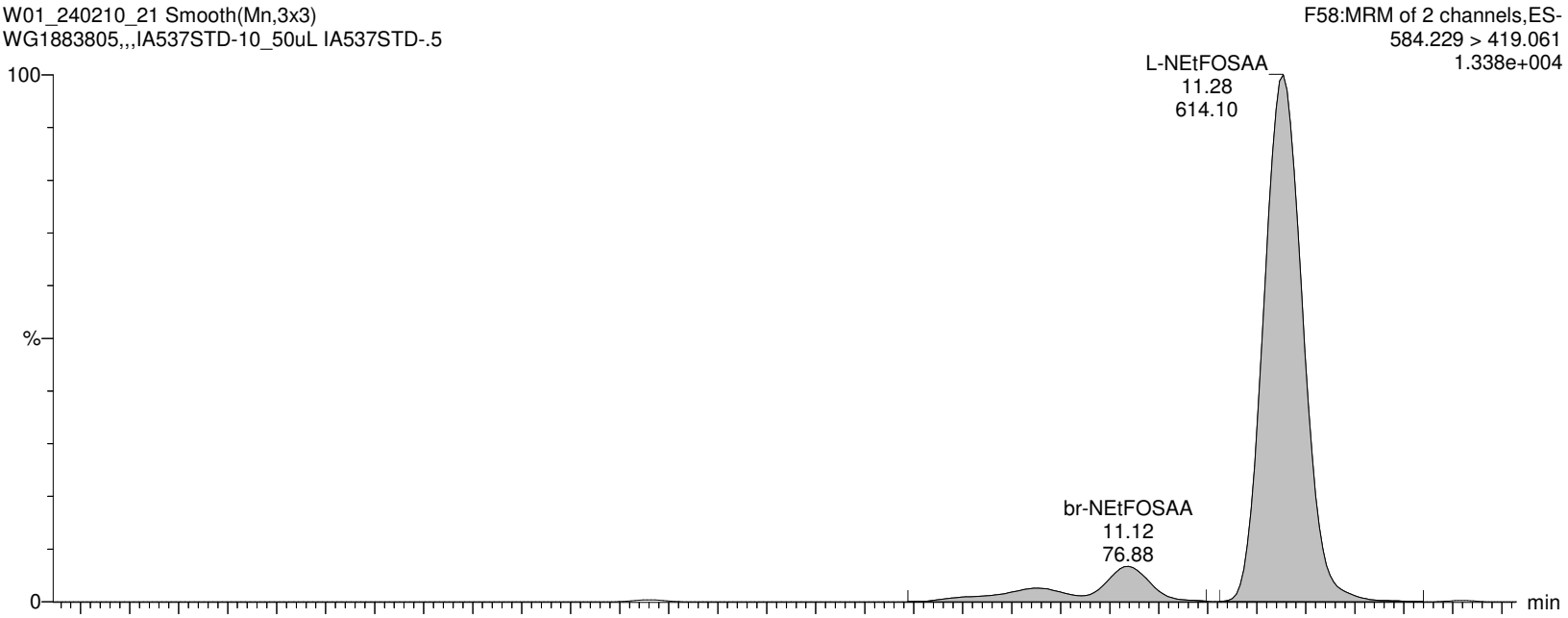

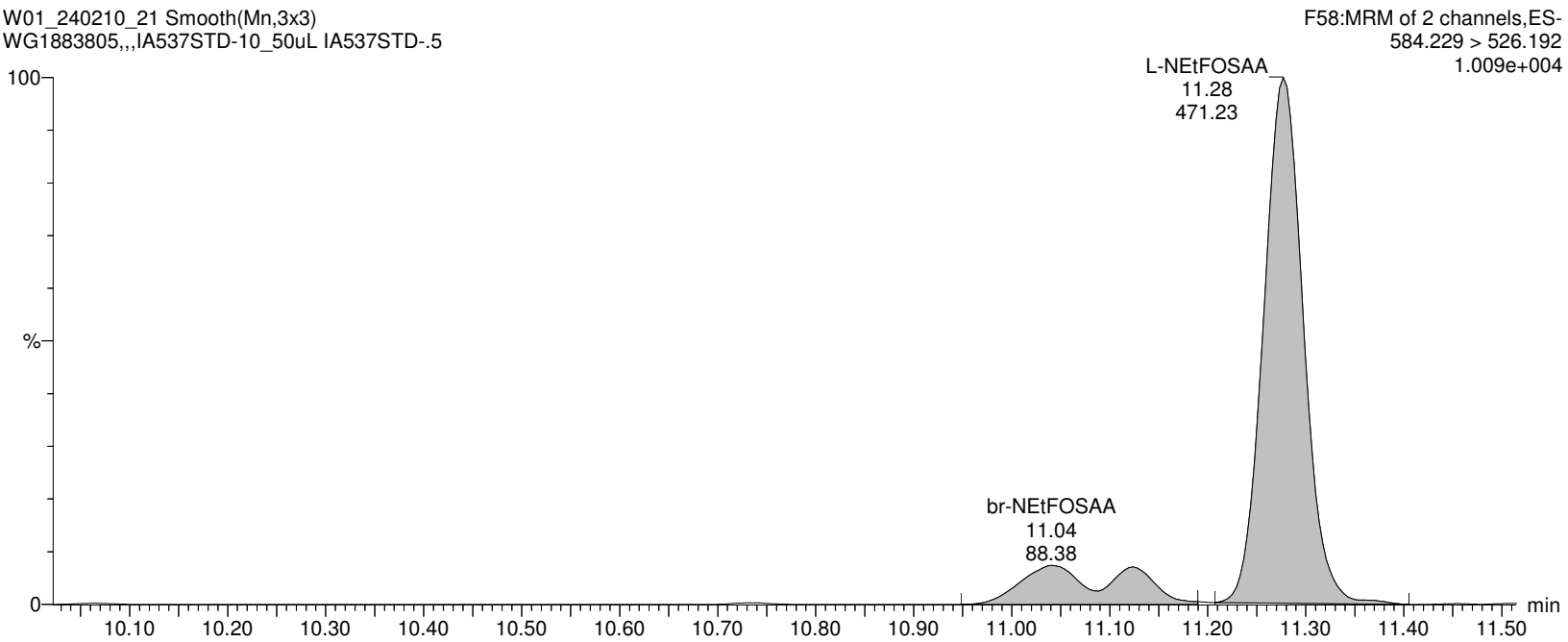

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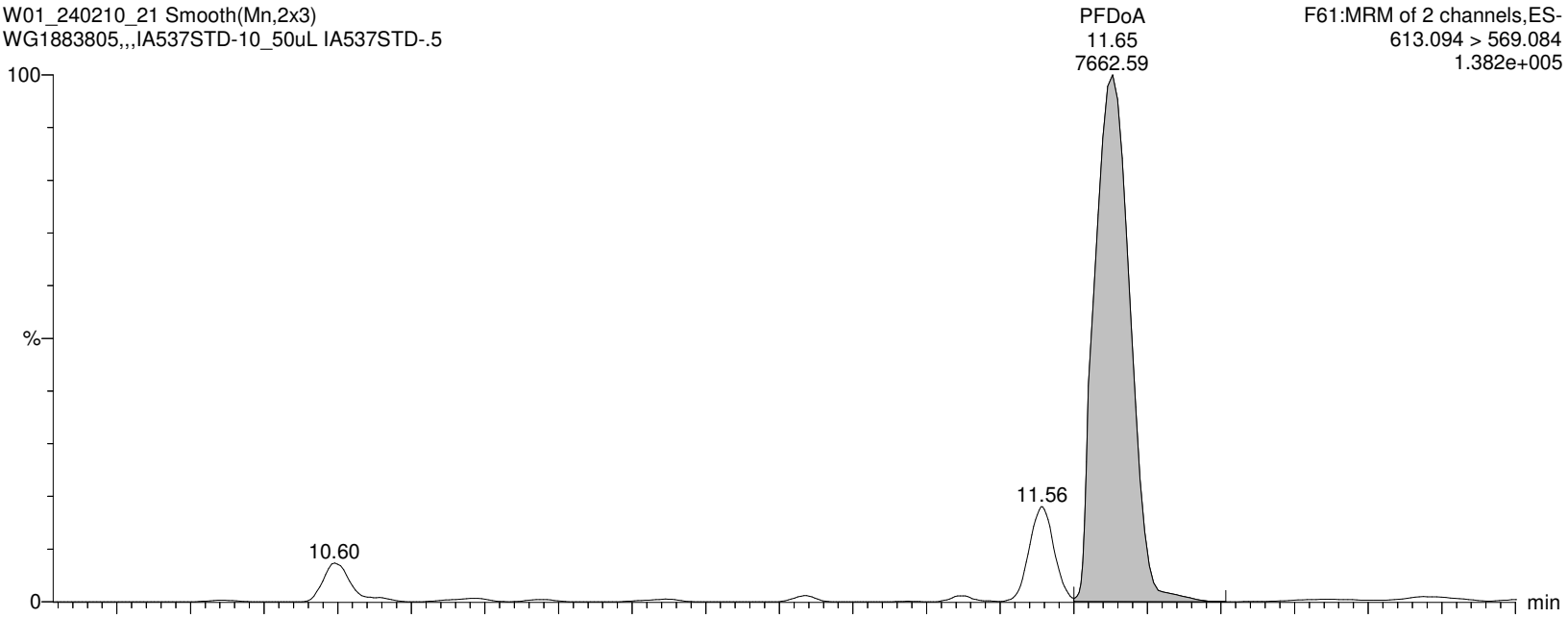

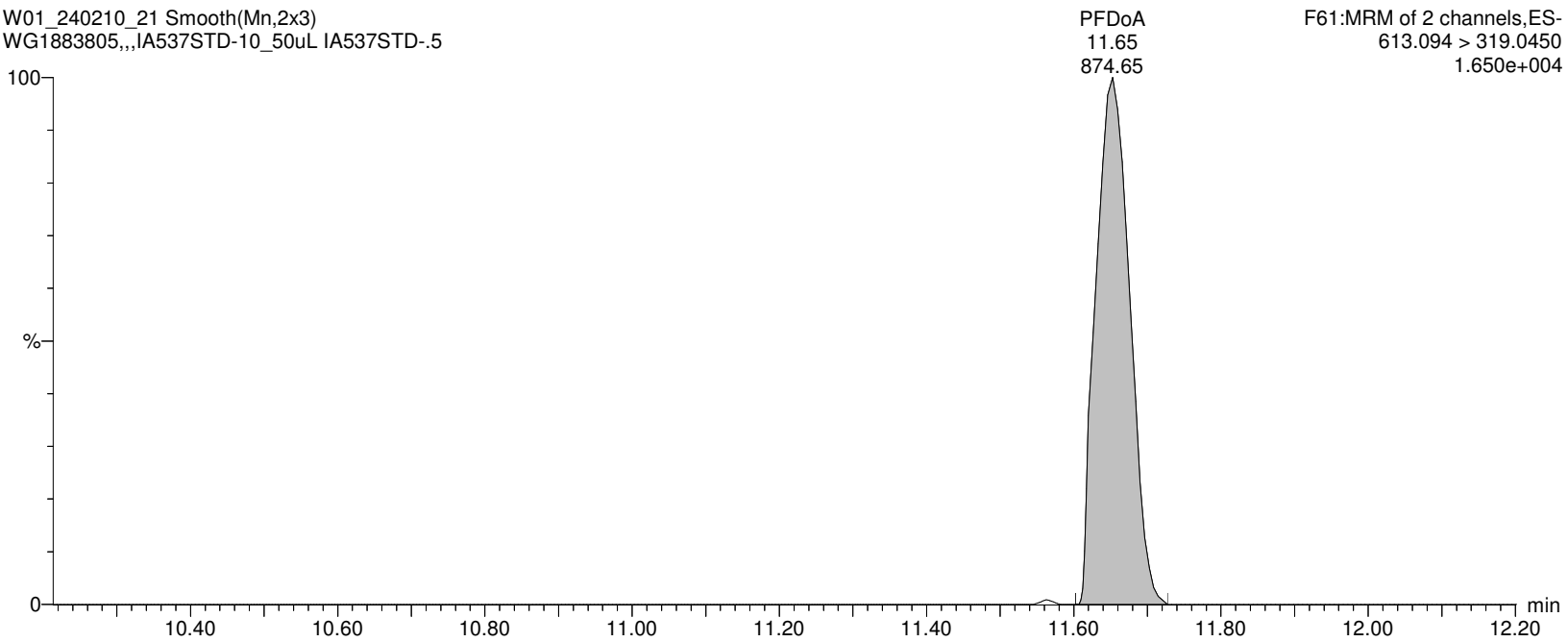

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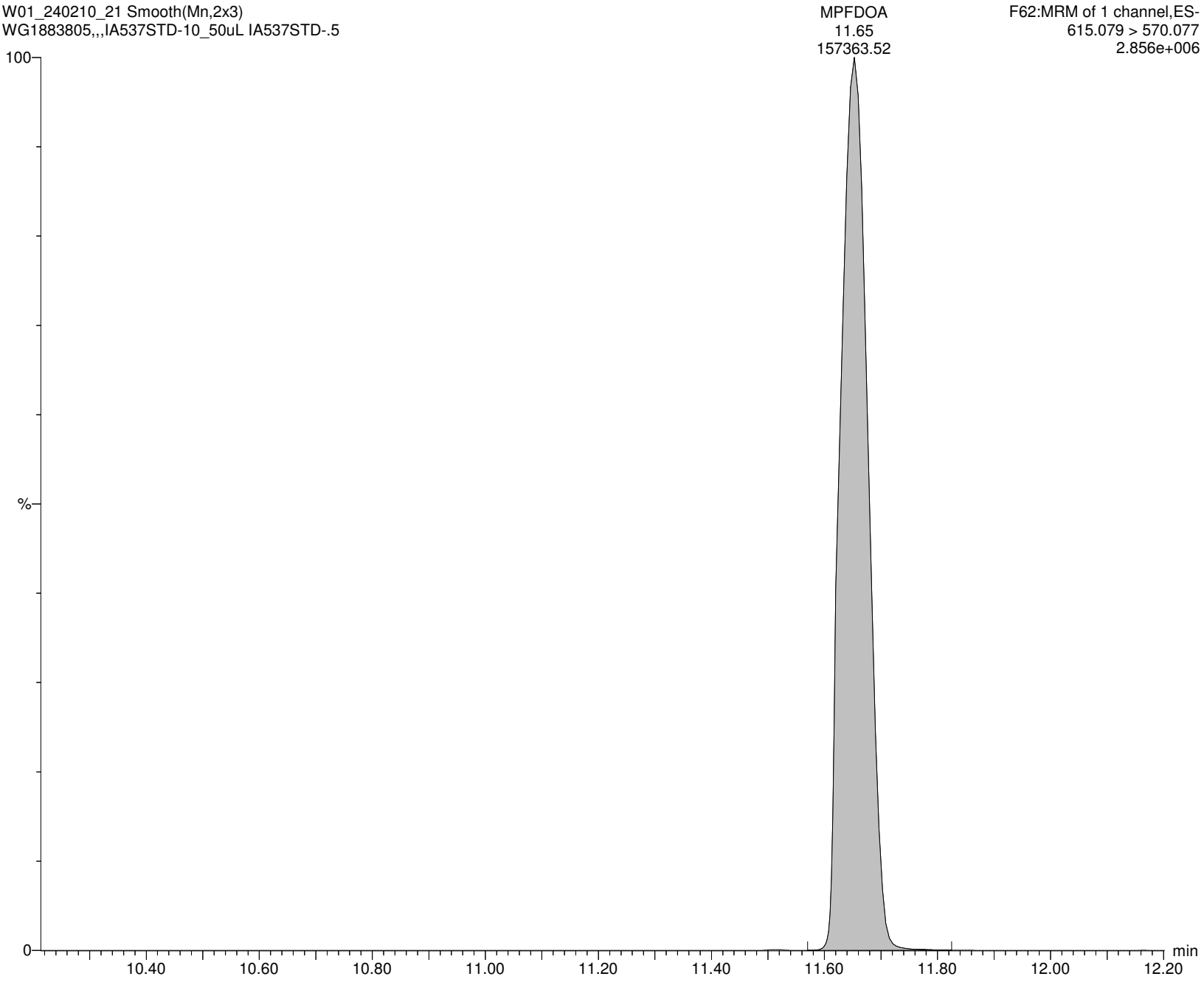

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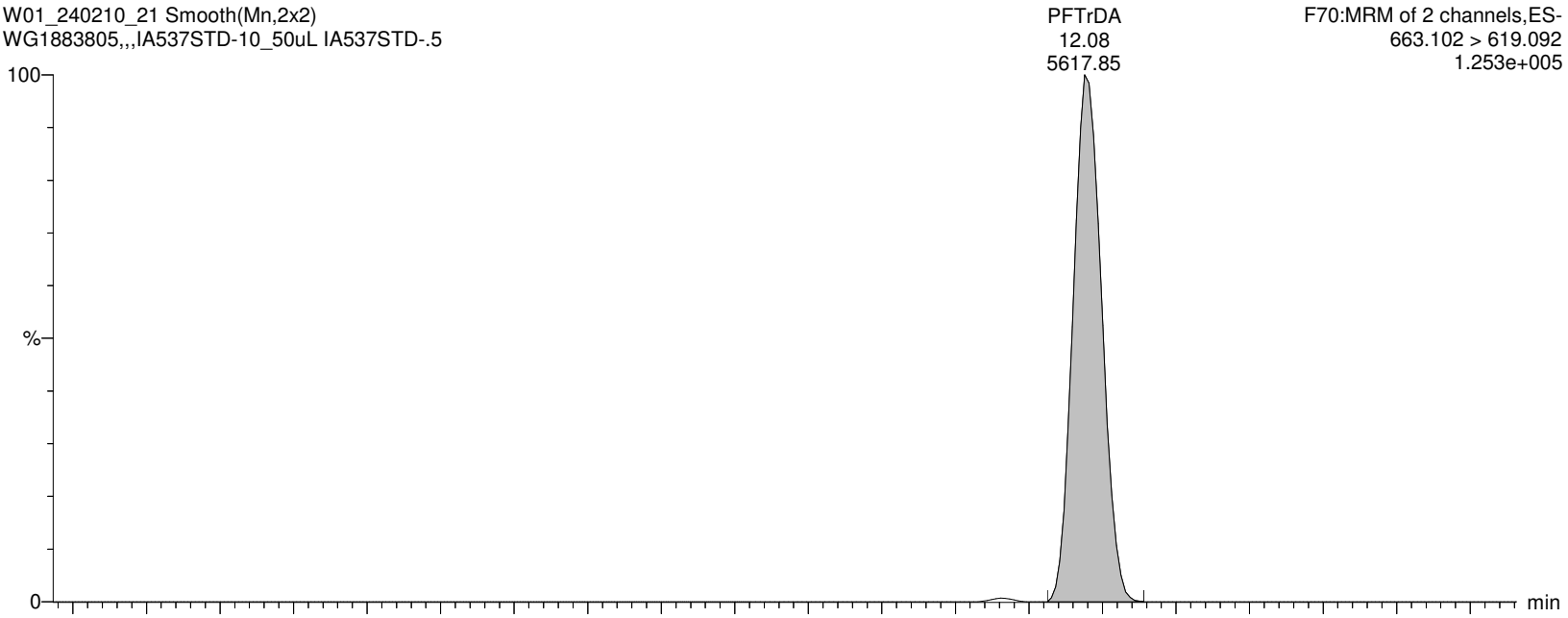

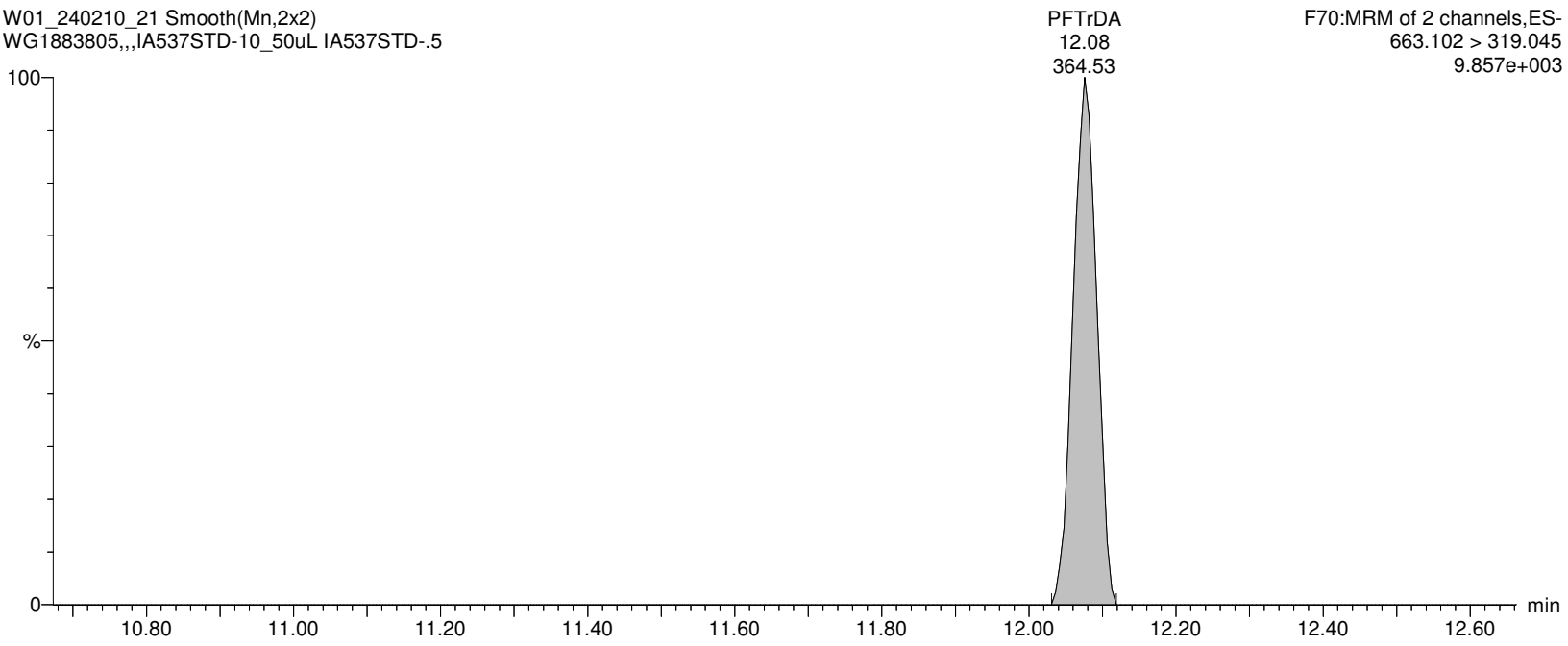

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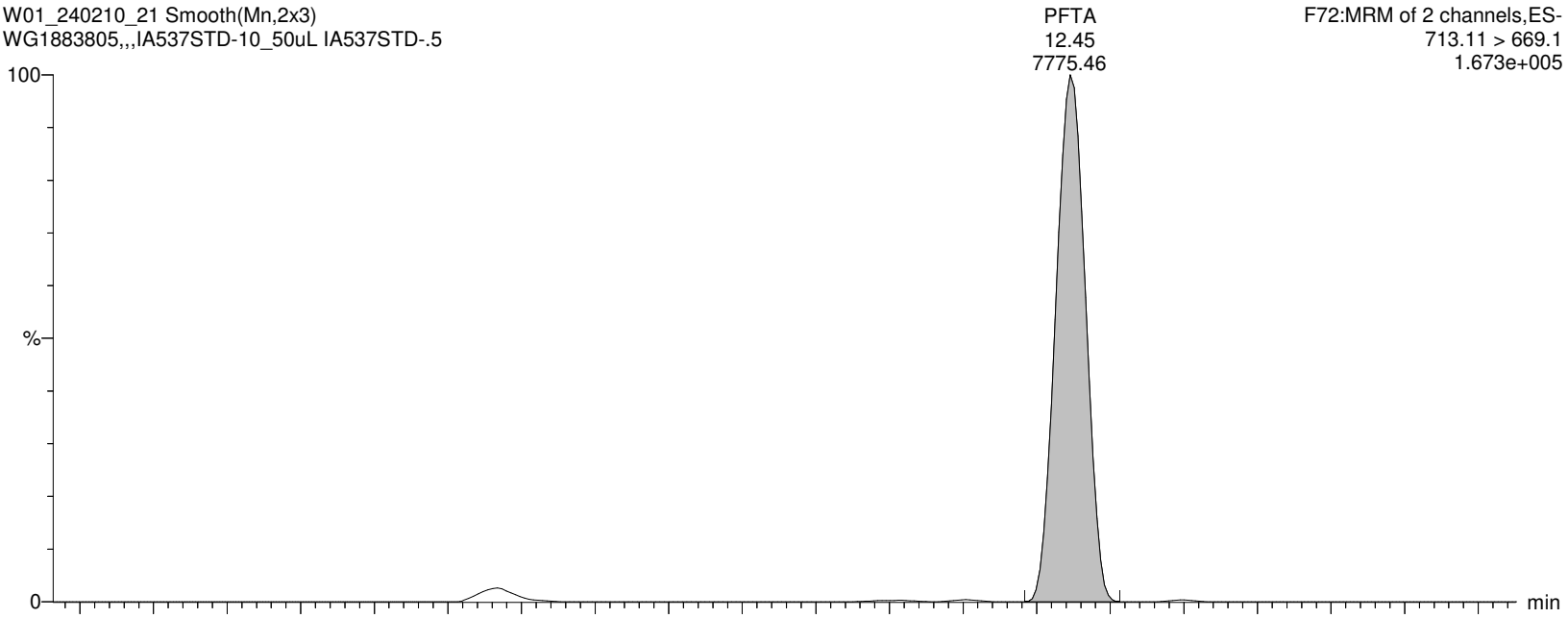

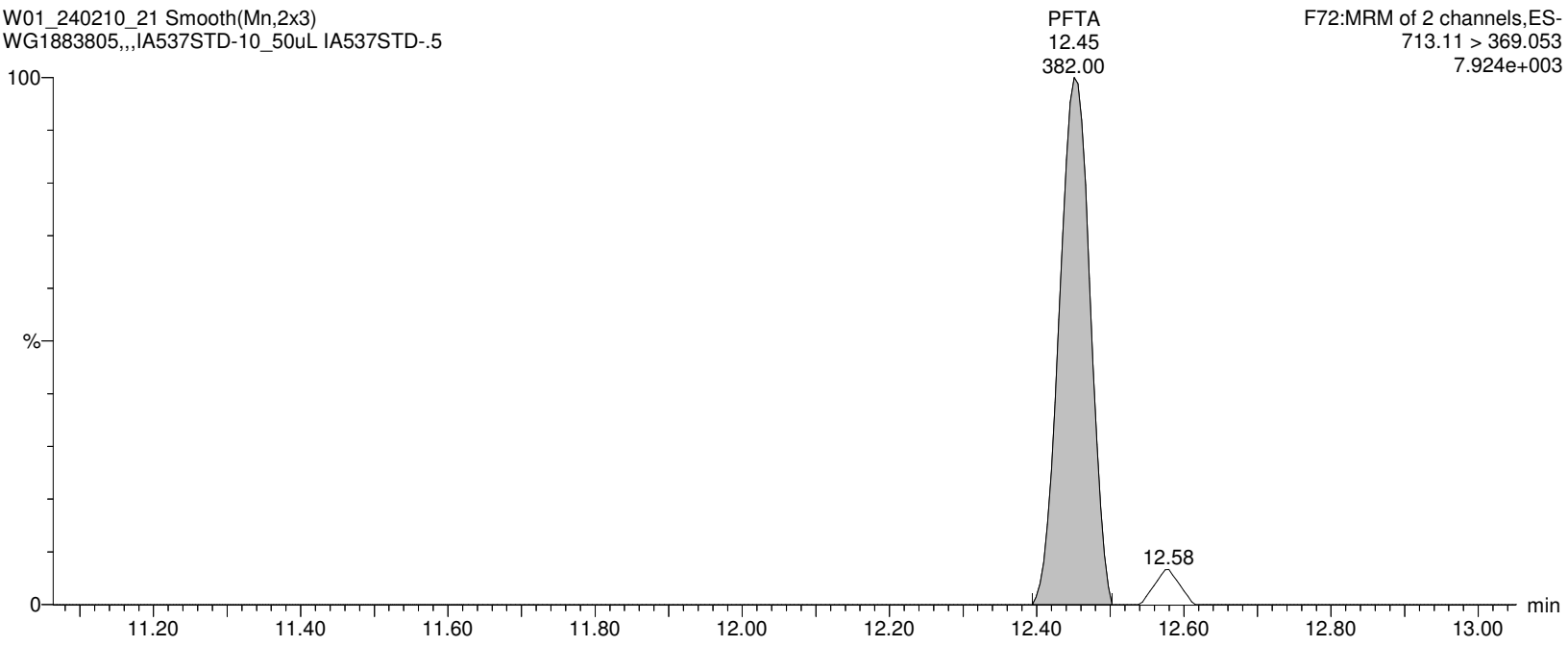

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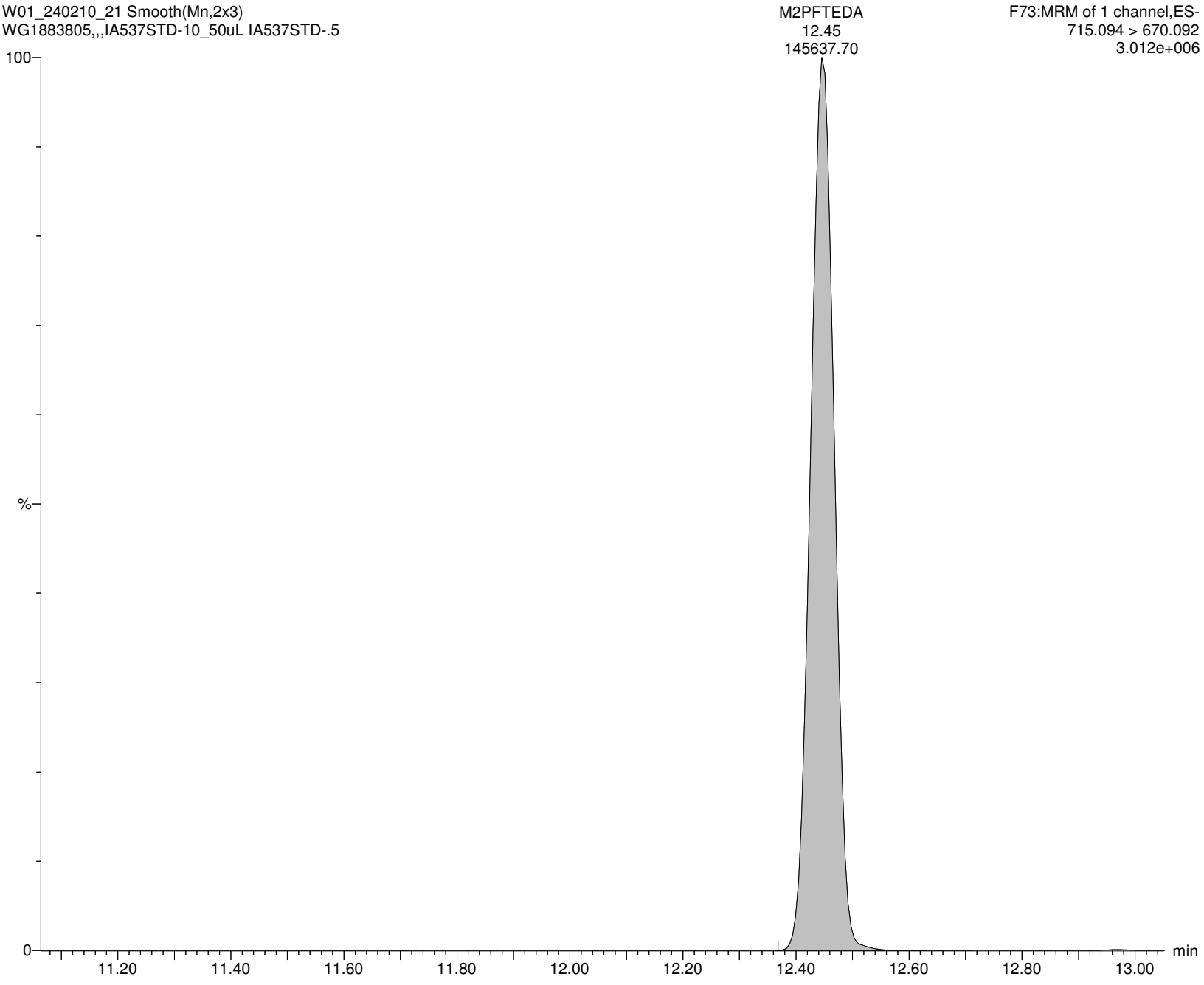

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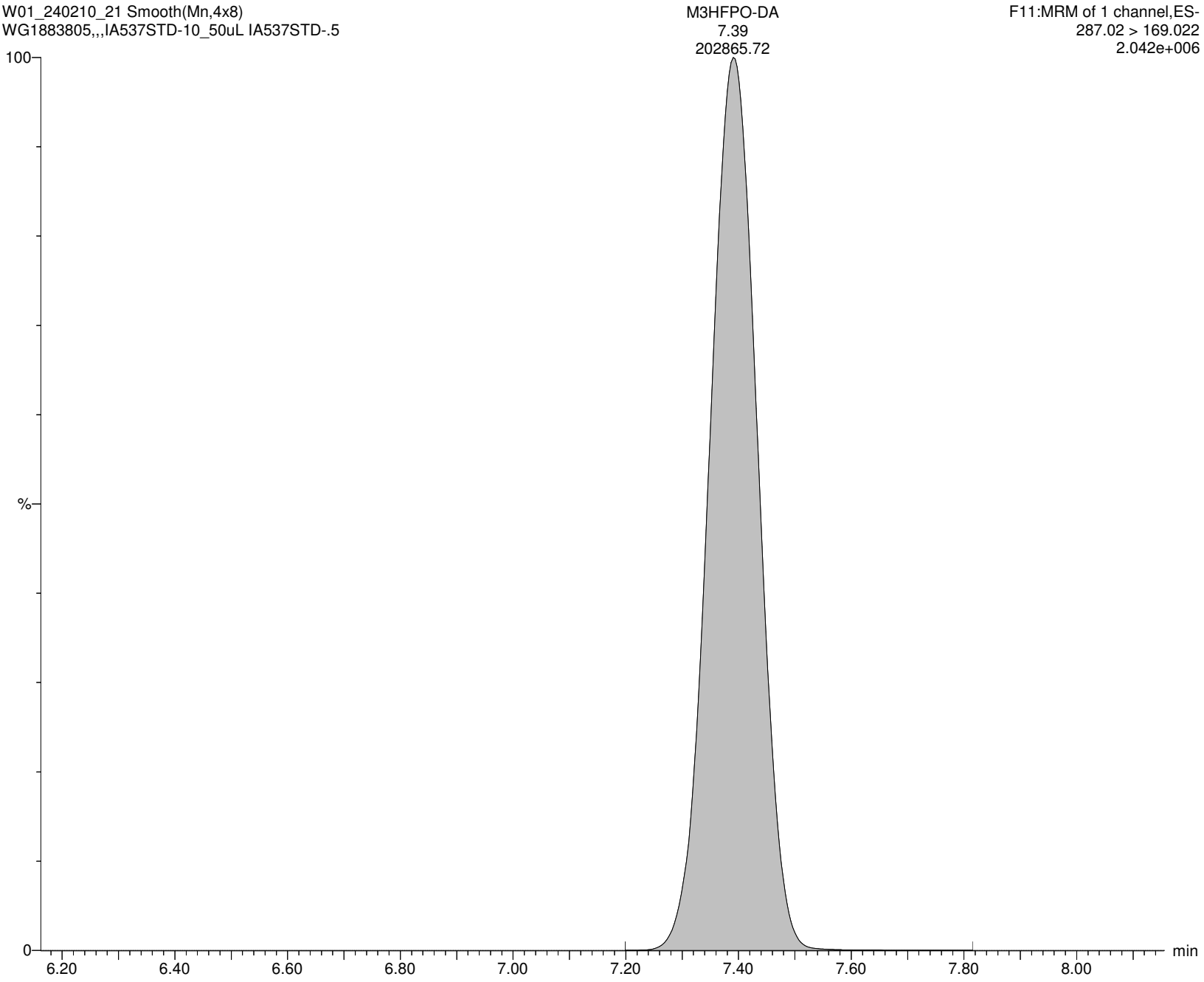

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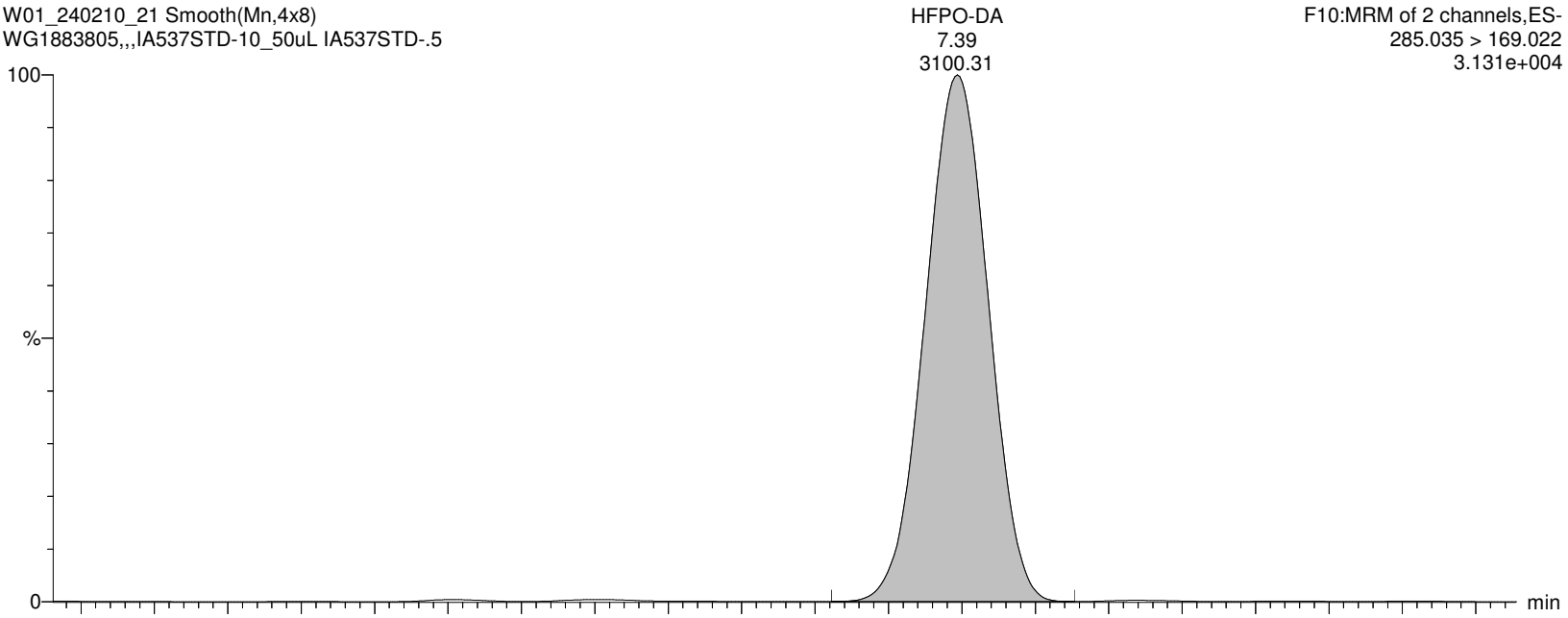

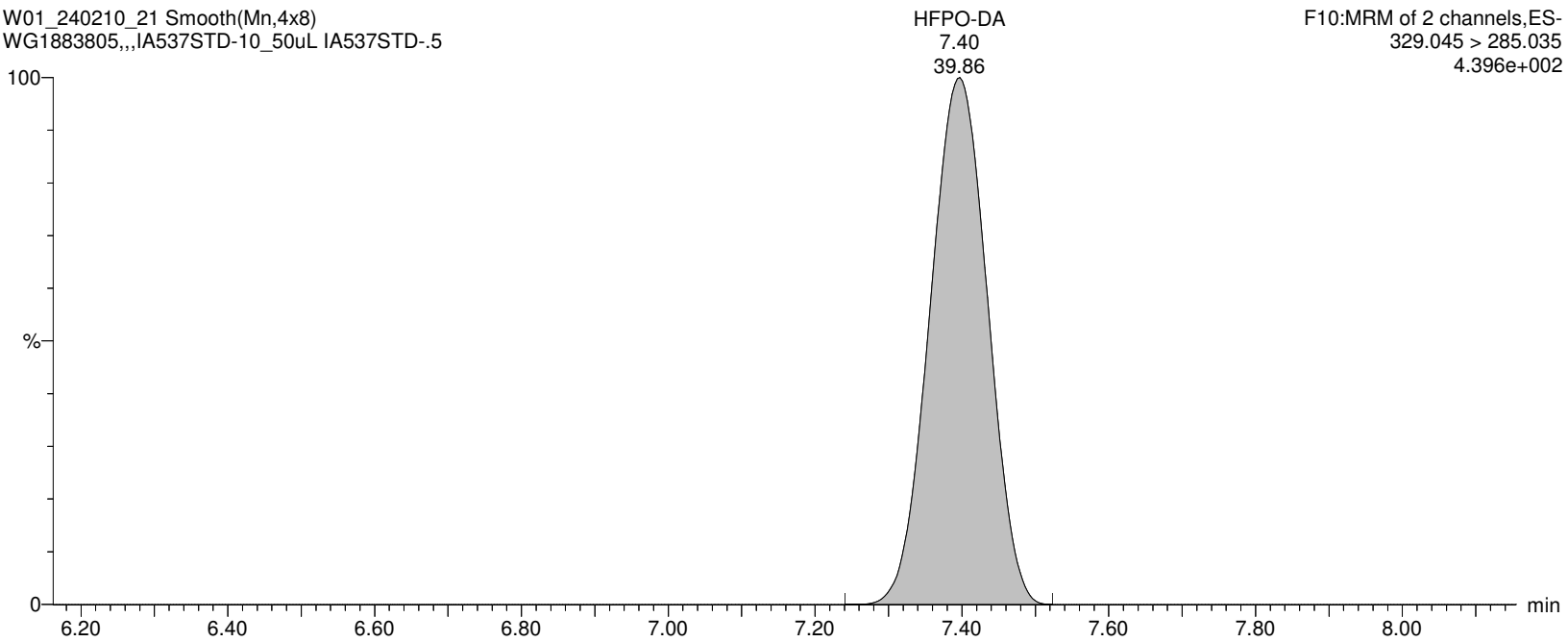

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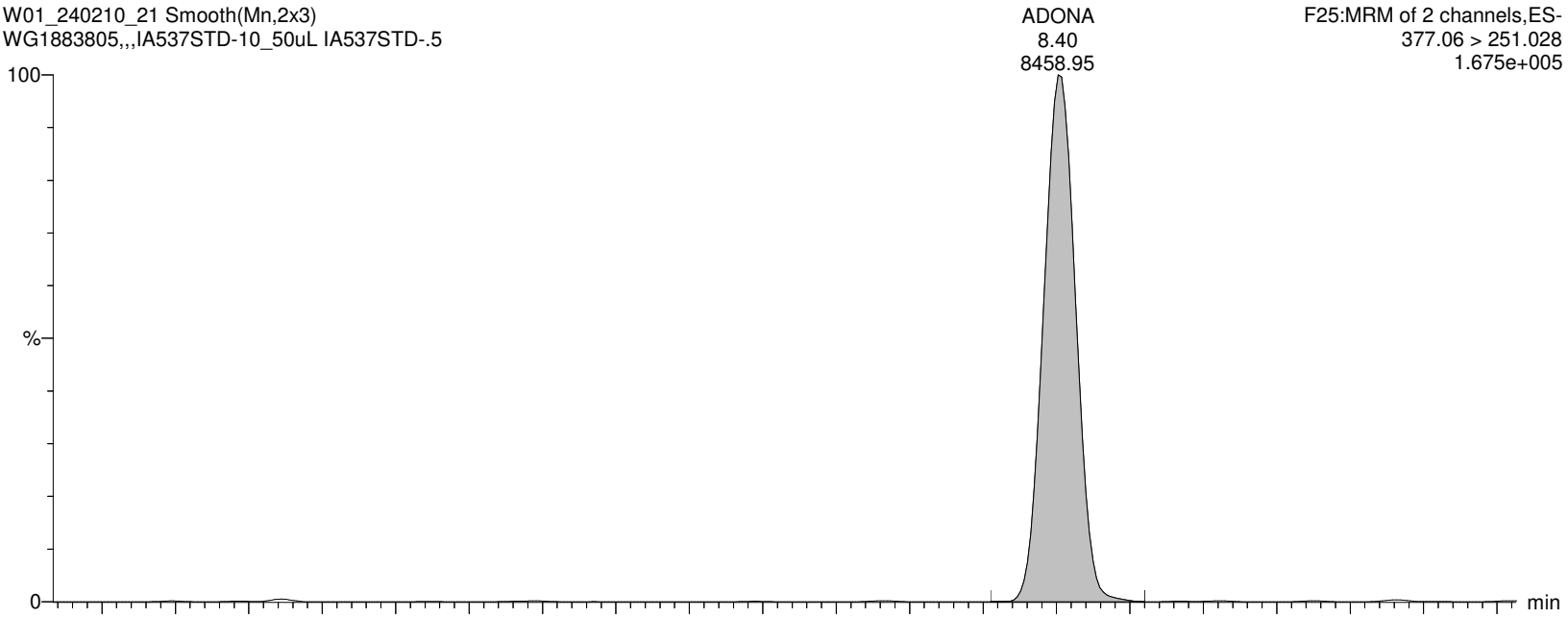

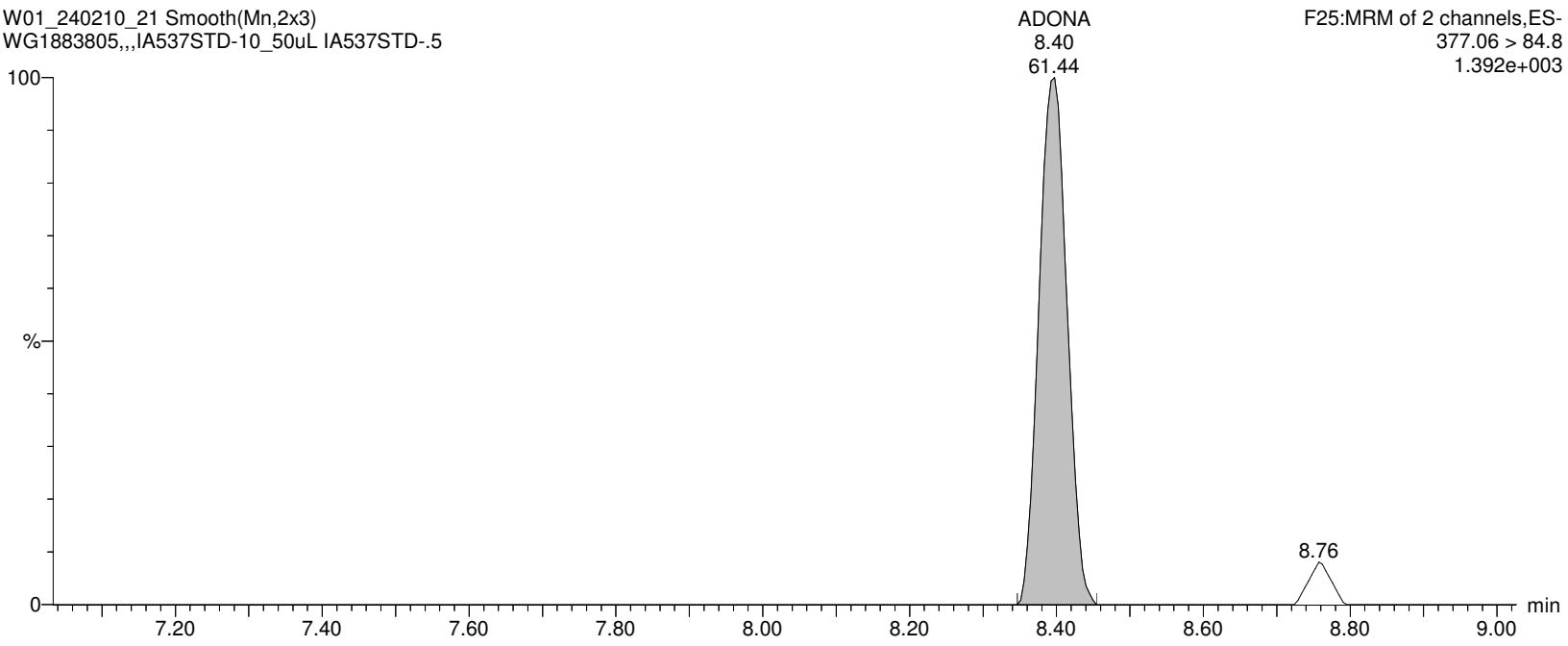

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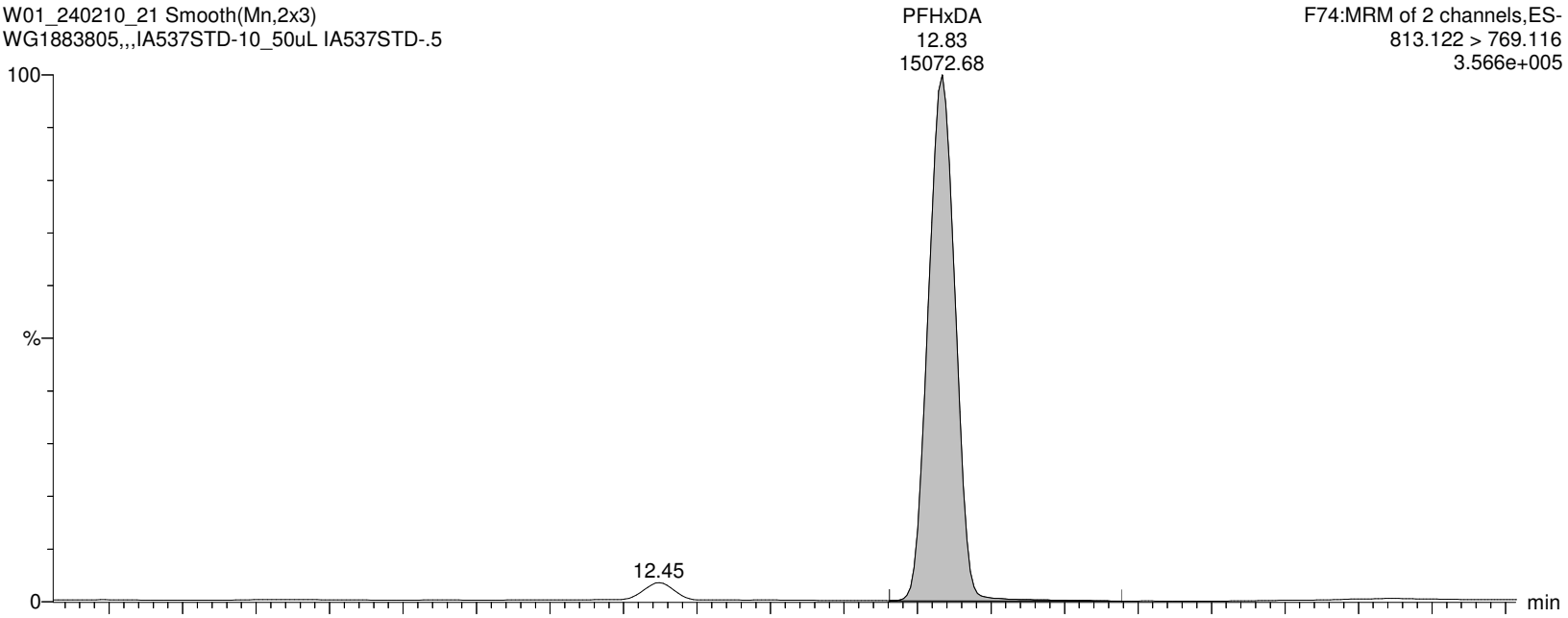

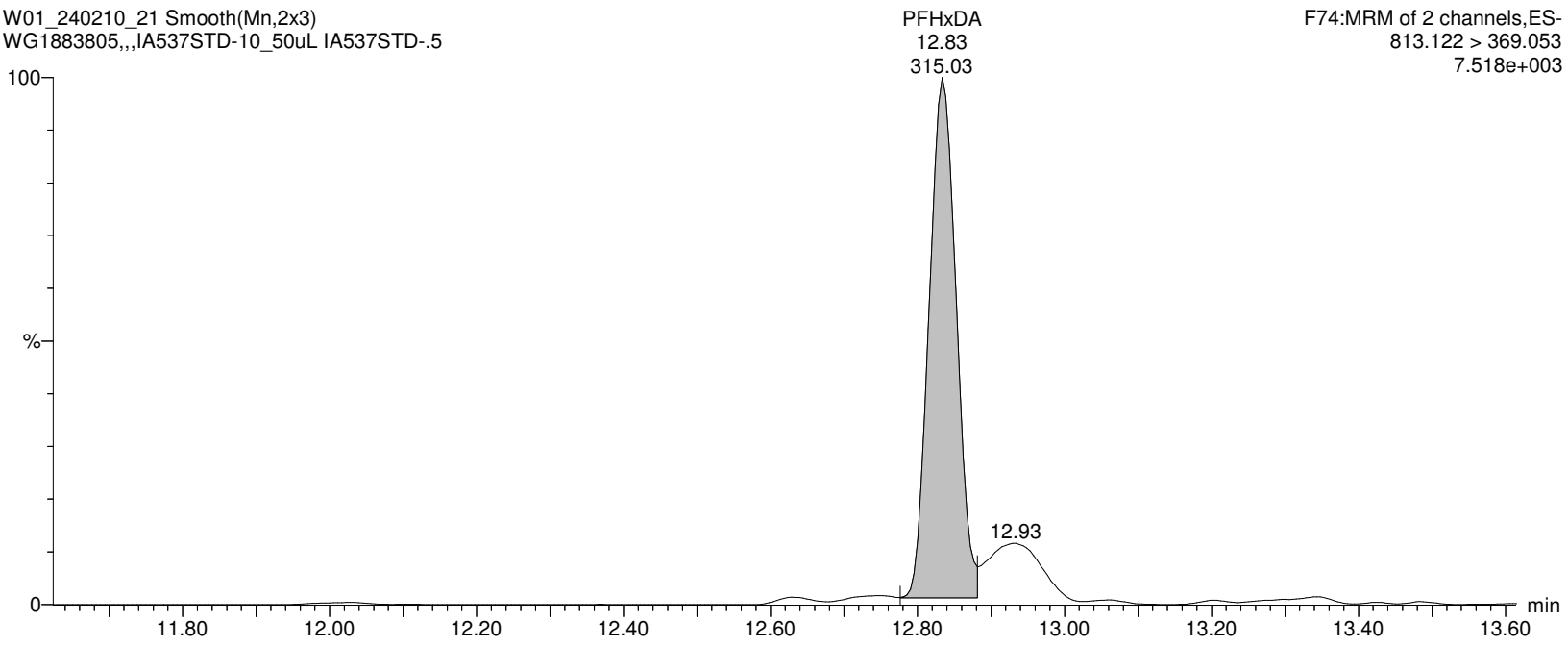

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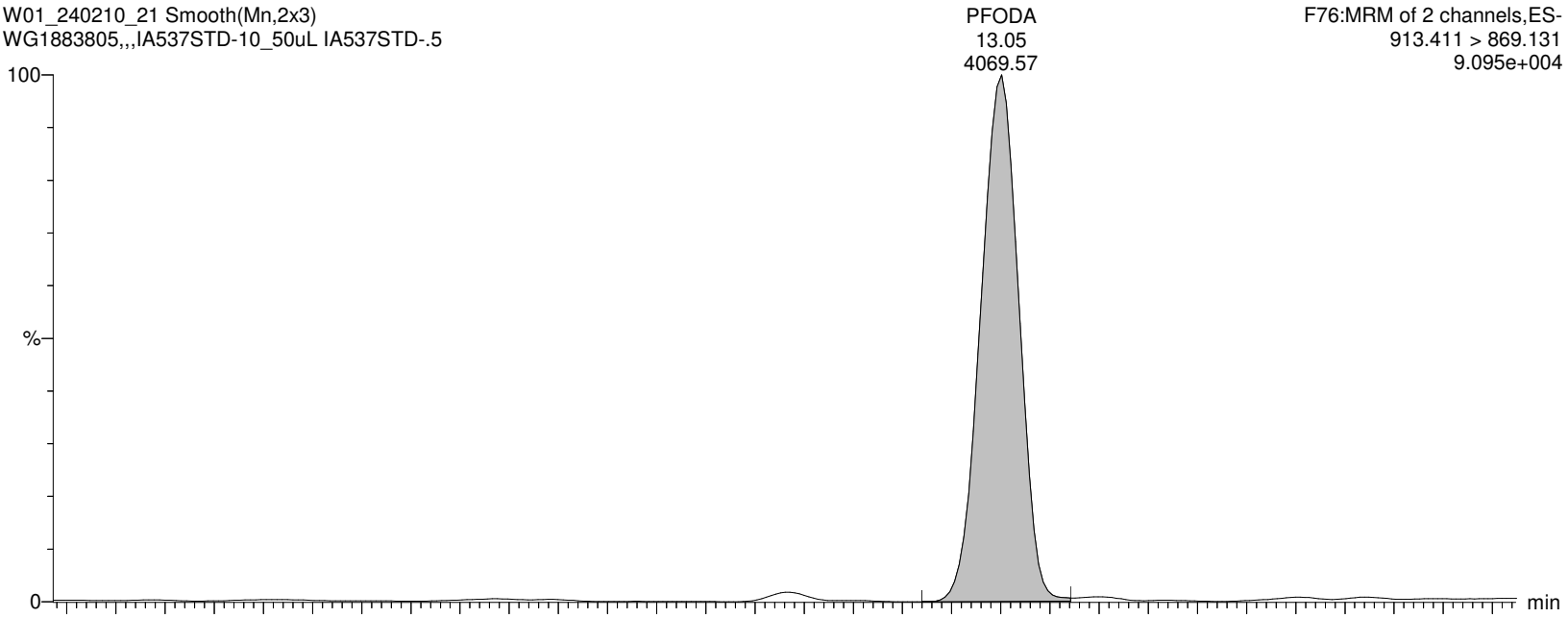

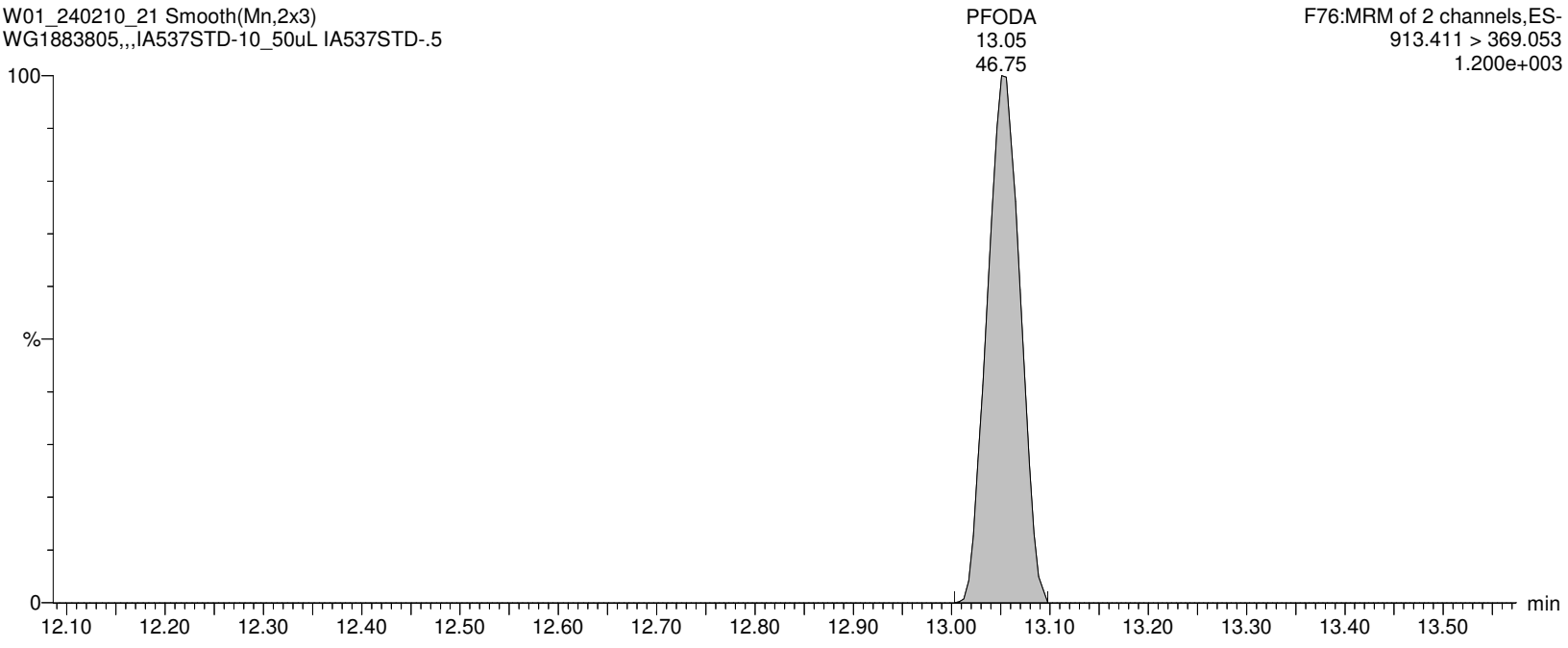

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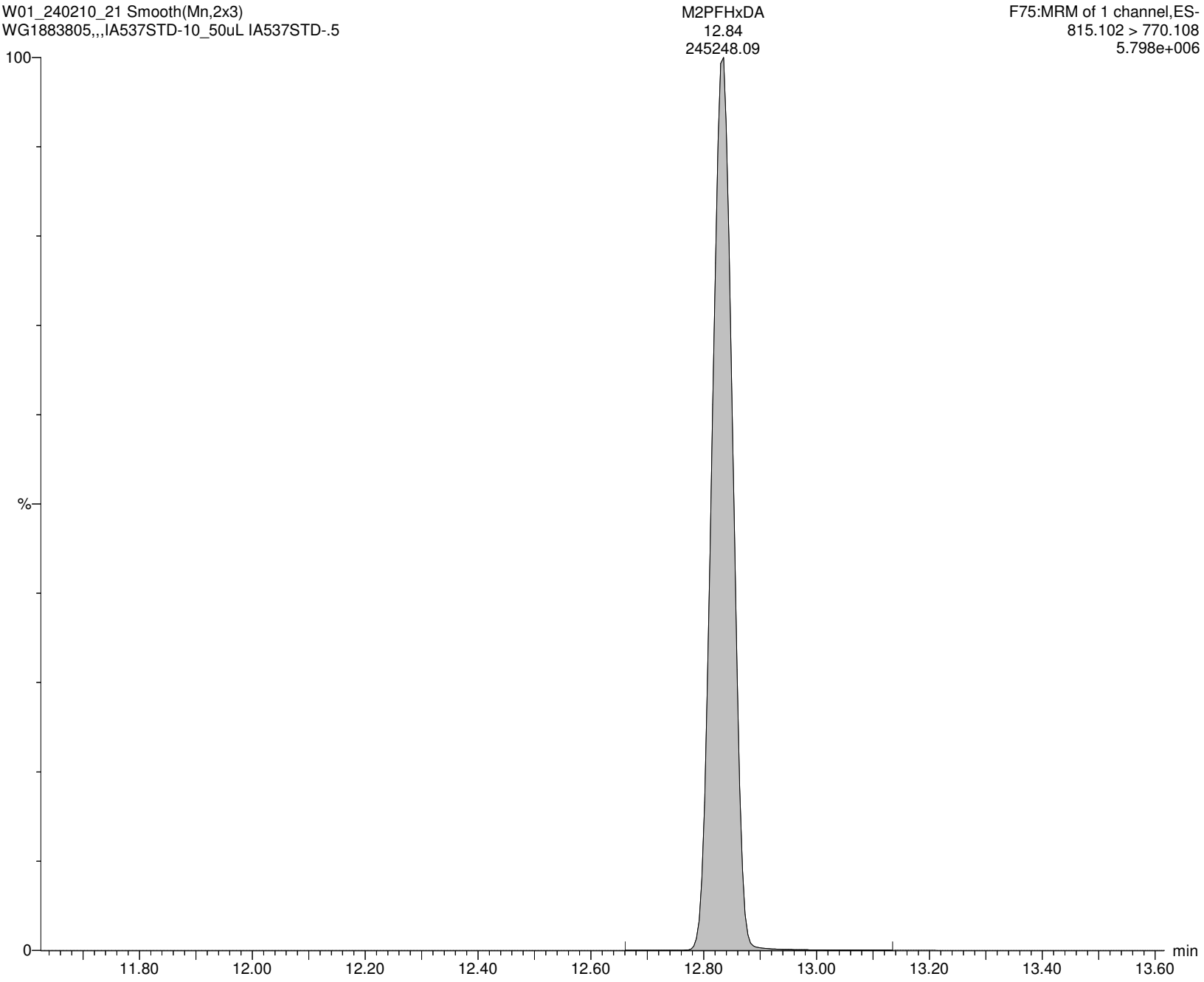

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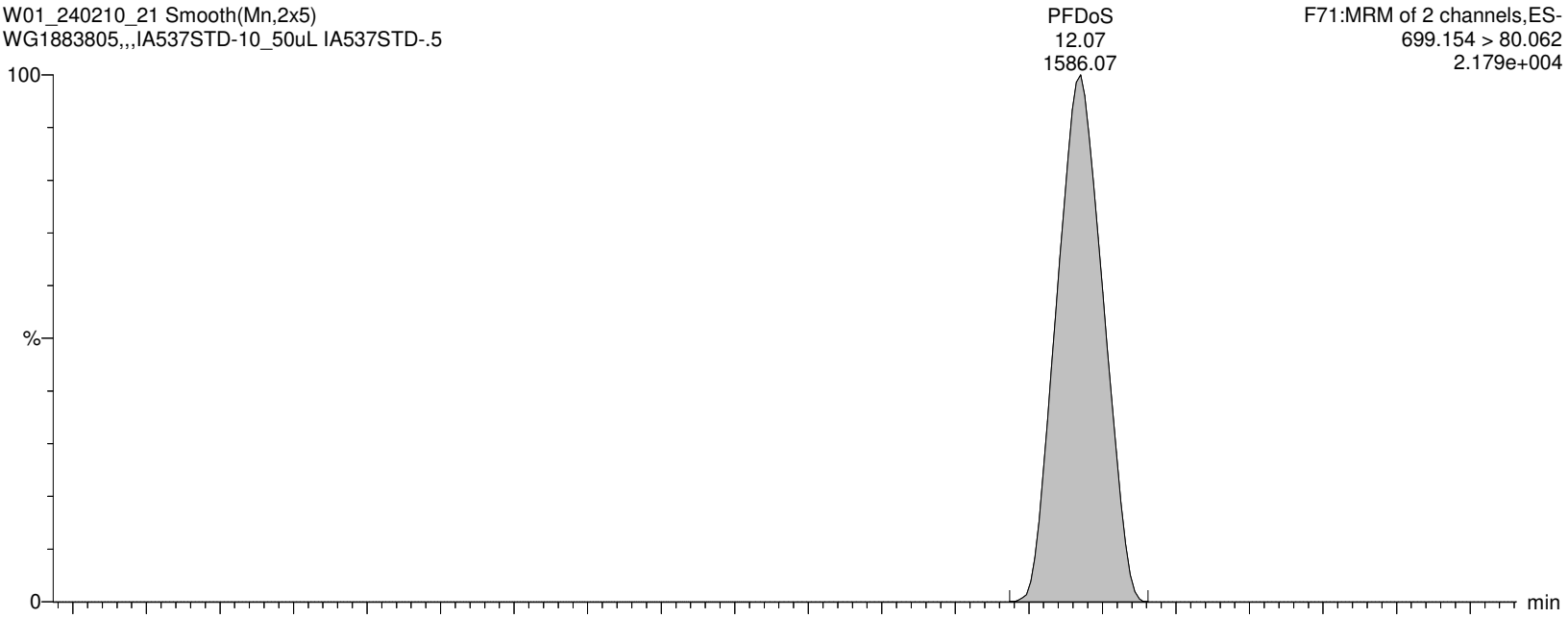

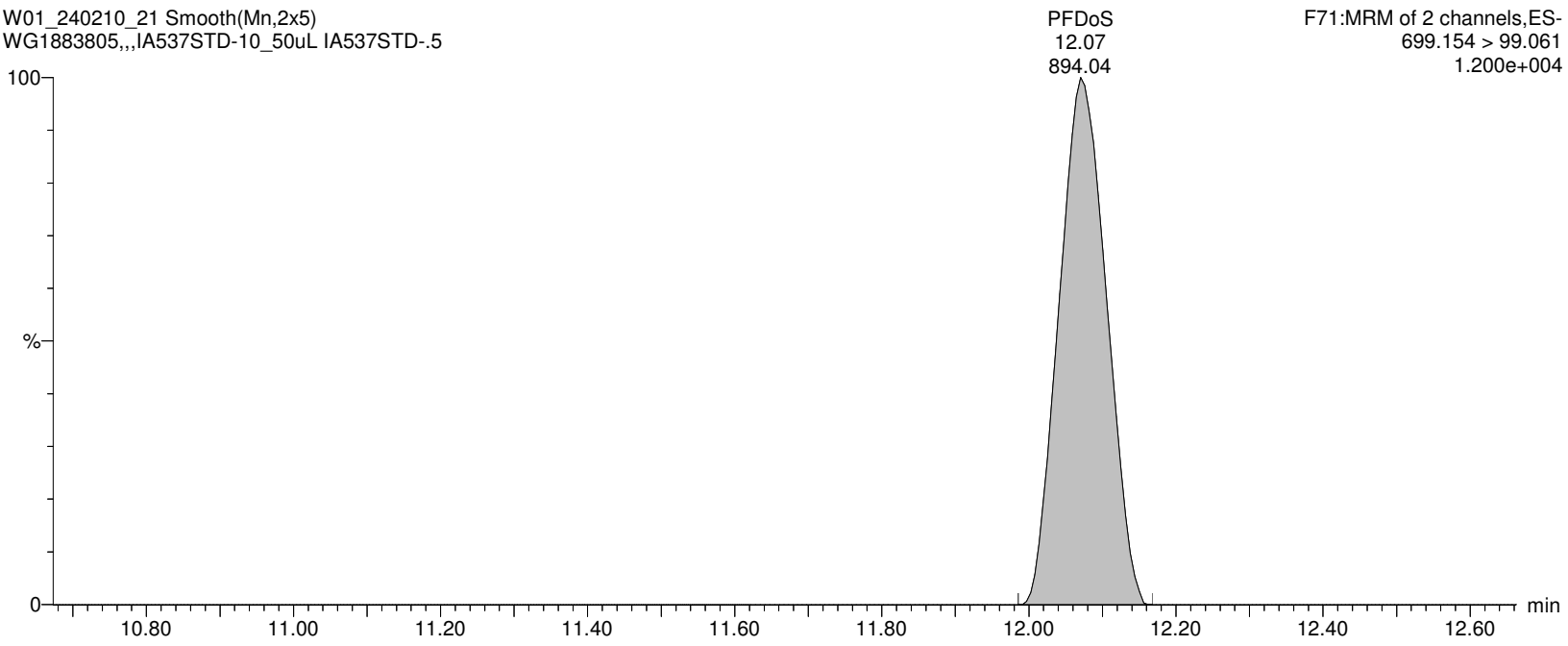

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:08 Eastern Standard Time

Name: W01_240210_21
ID: IA537STD-.5
Date: 10-Feb-2024
Time: 16:13:31
Description: WG1883805,,,IA537STD-10_50uL
User: LCMS01:SG
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
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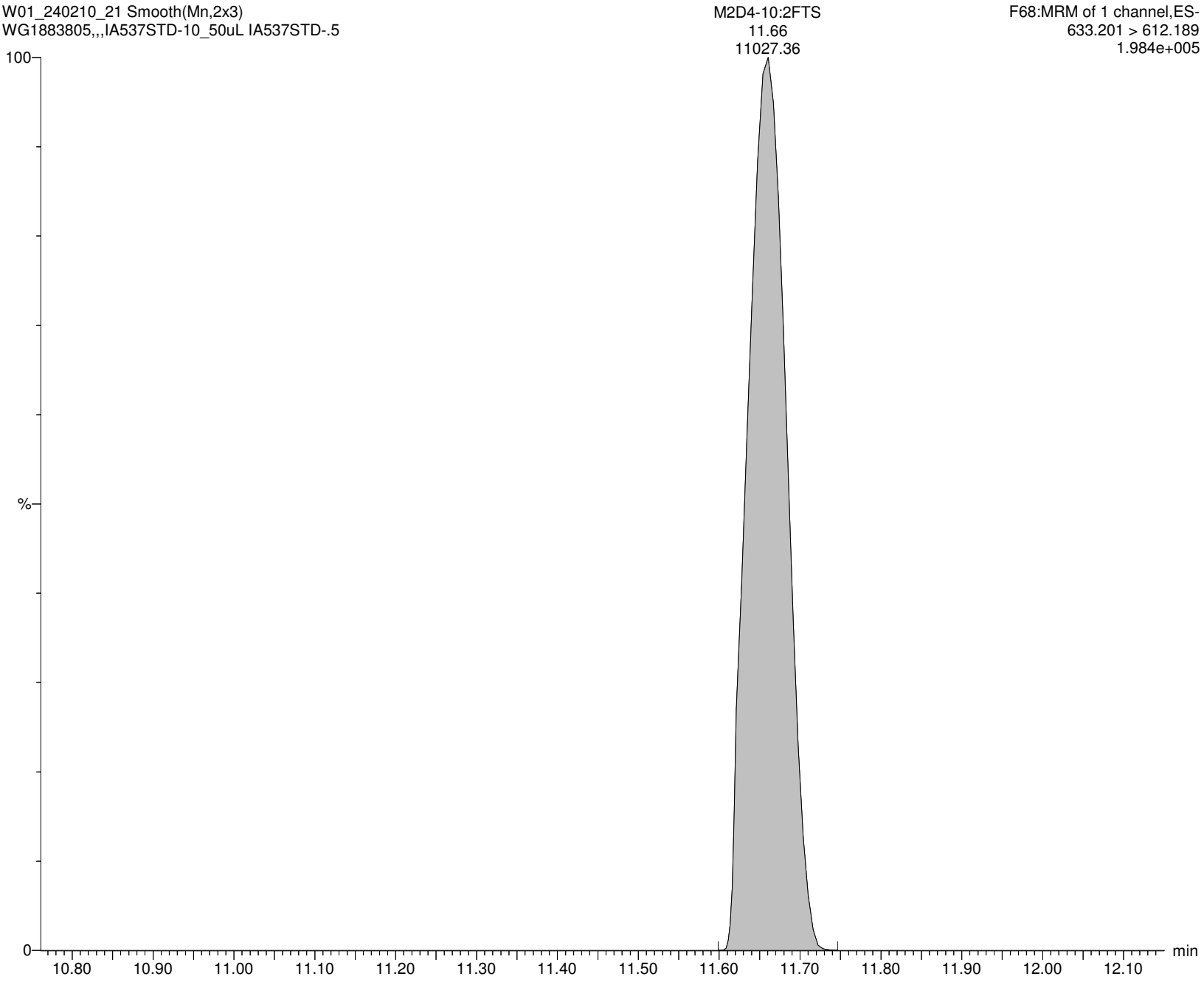

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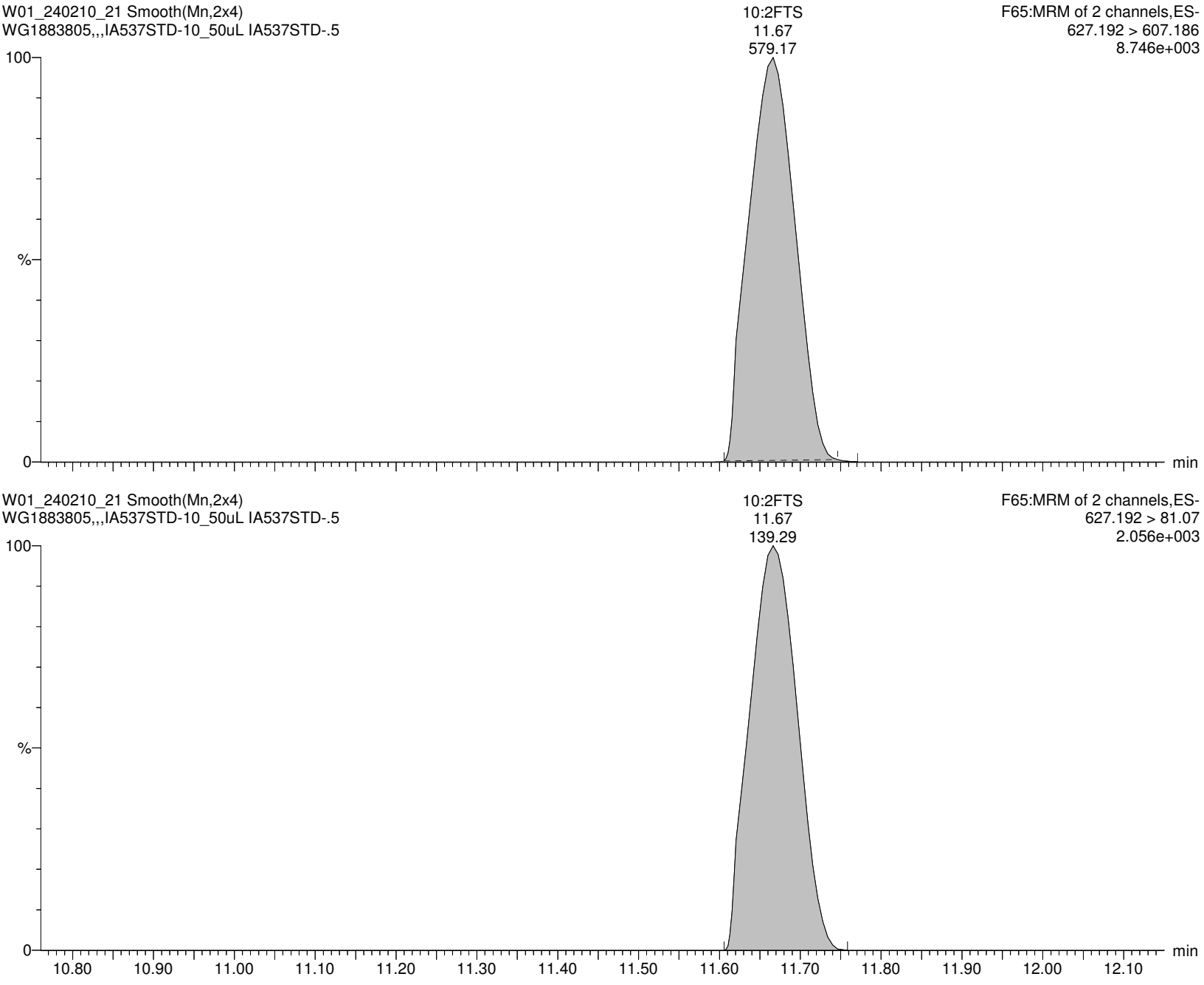

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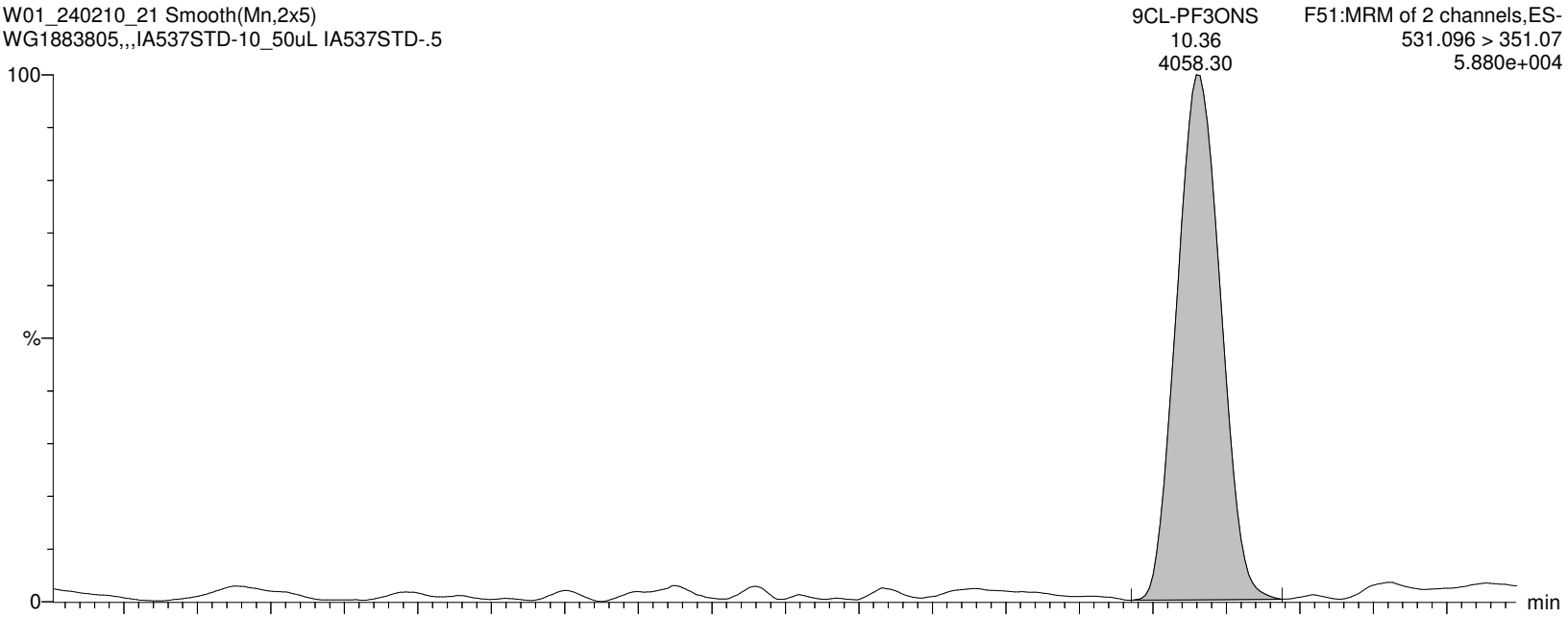

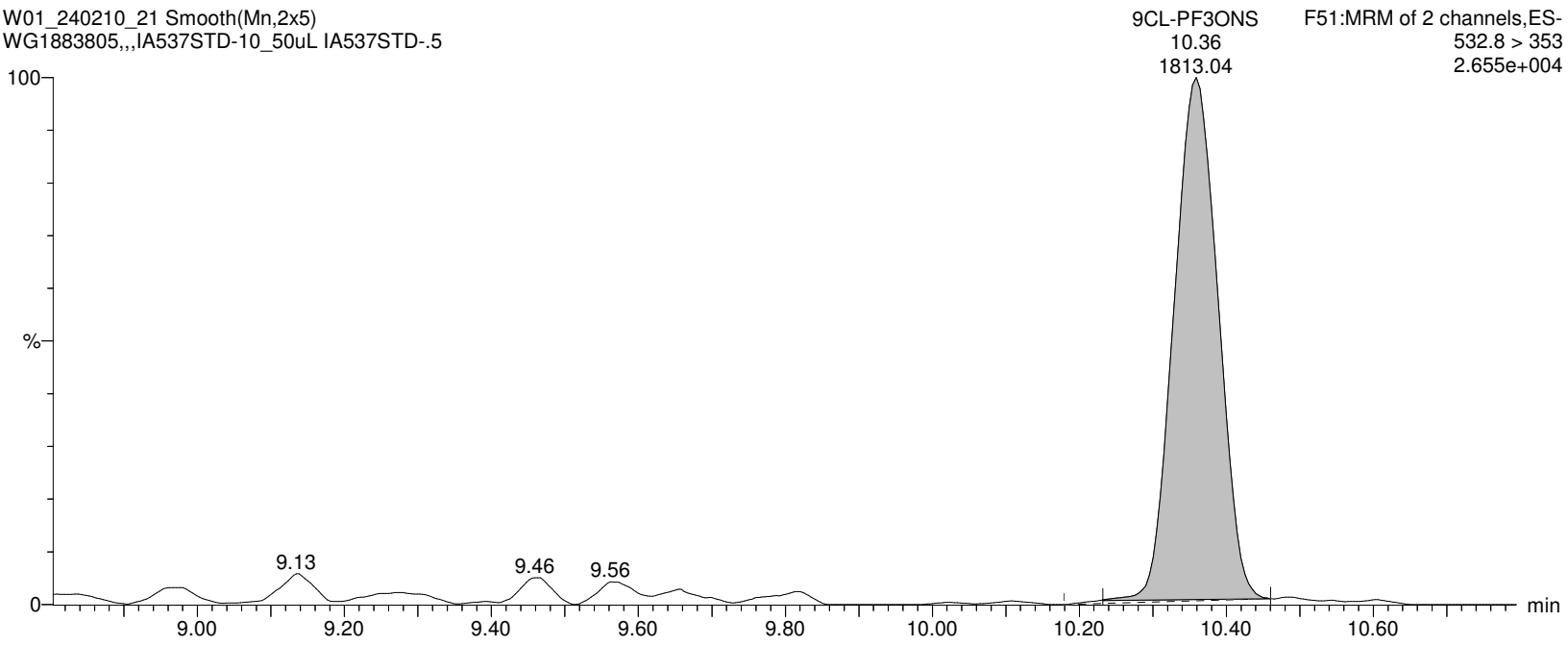

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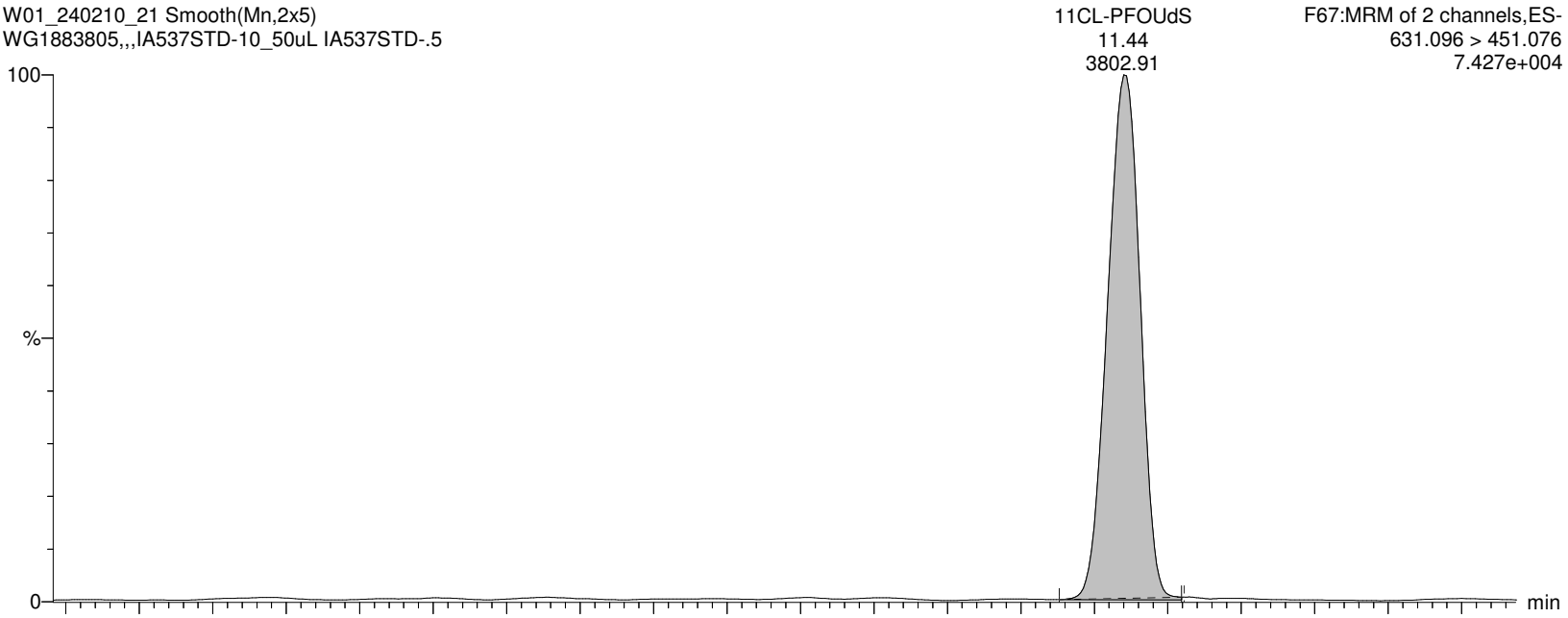
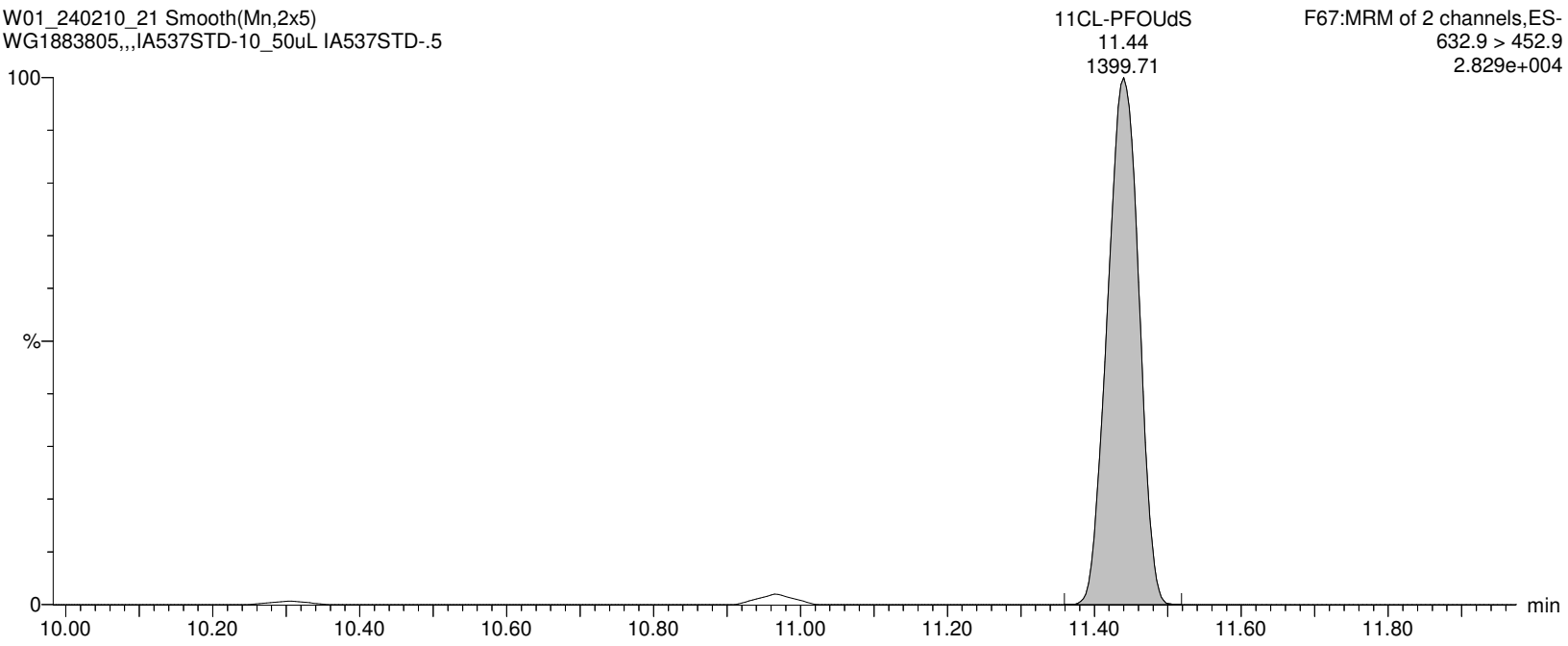
11CL-PFOUdS





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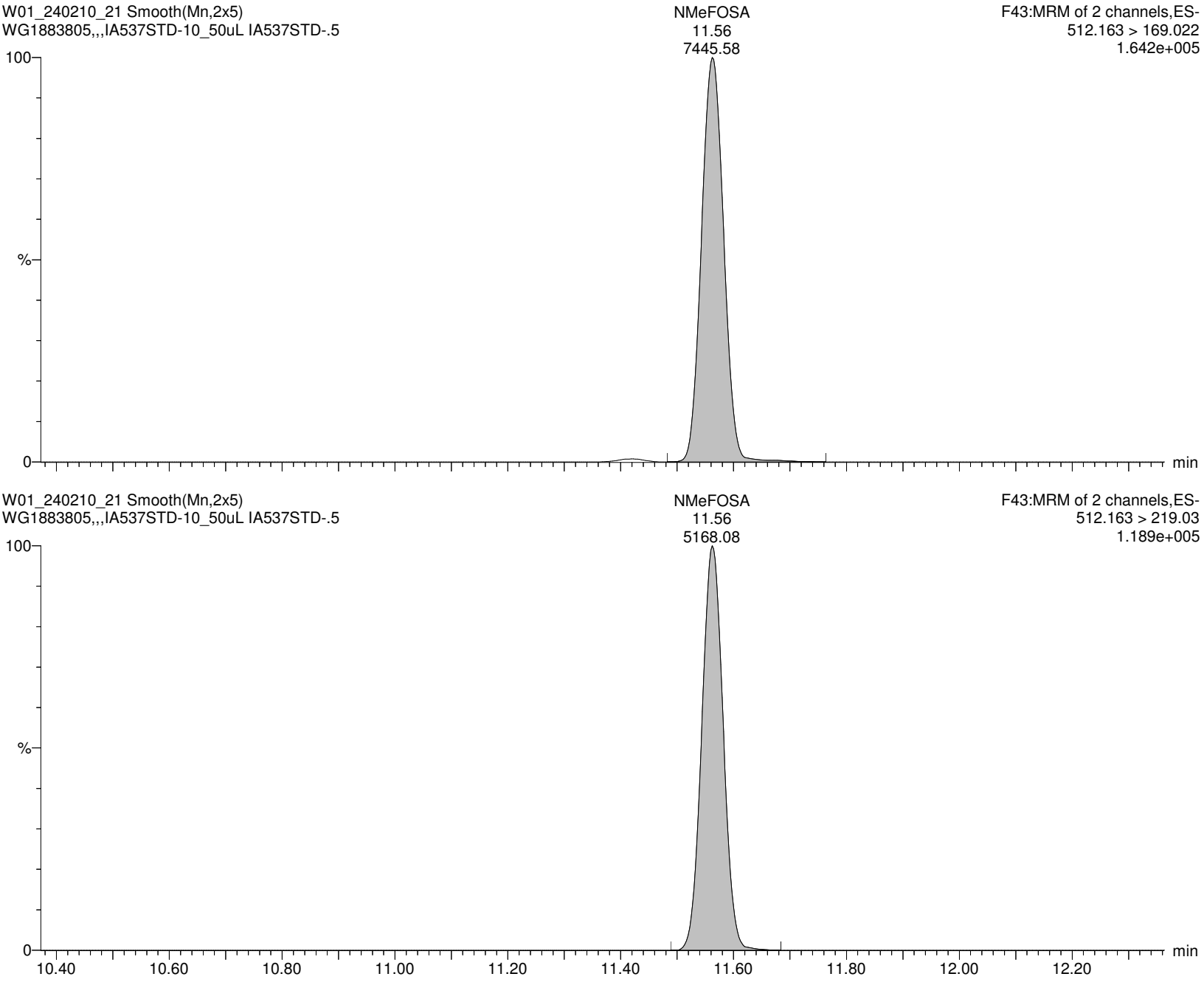

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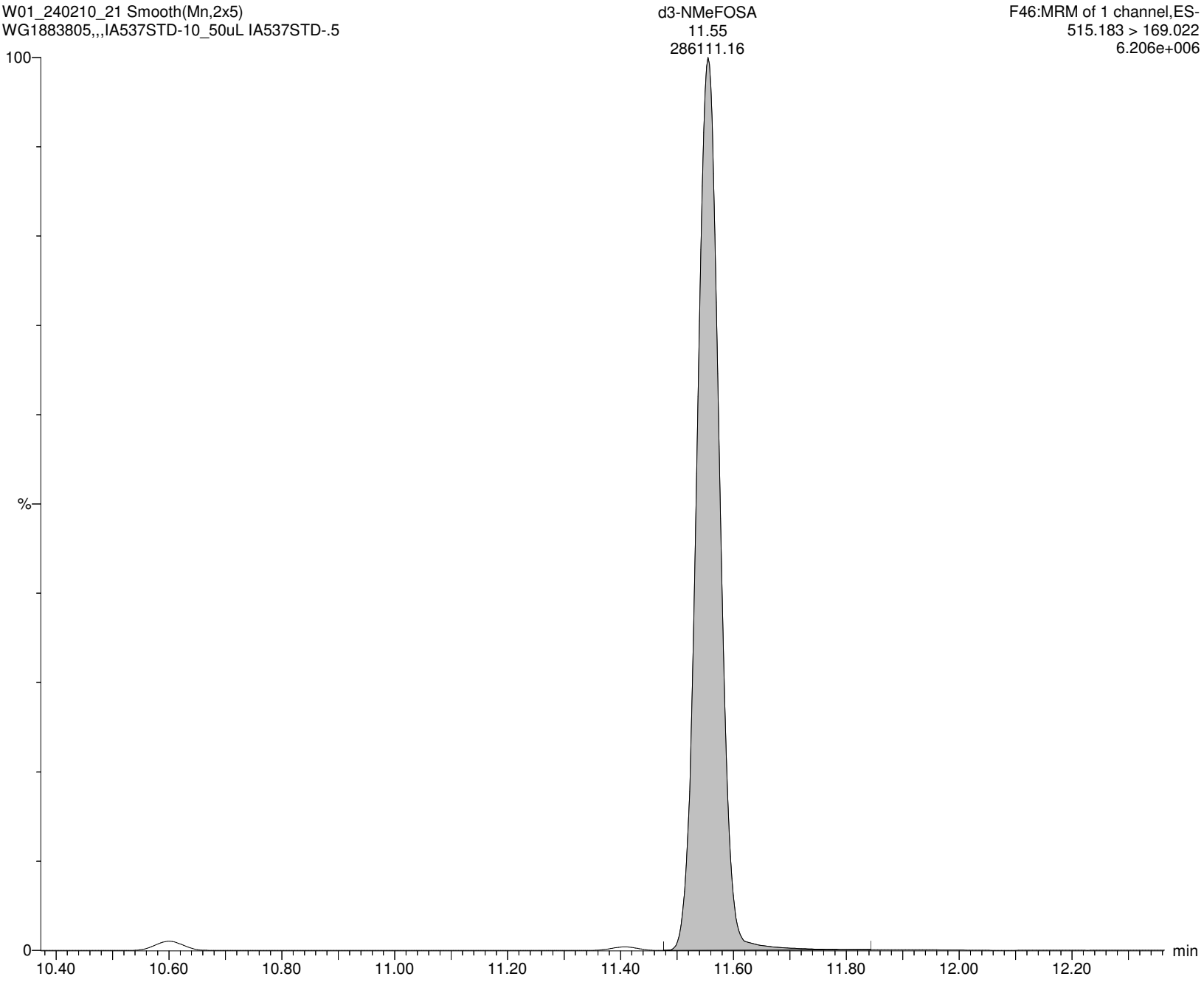

all concentration units in (ng/mL)

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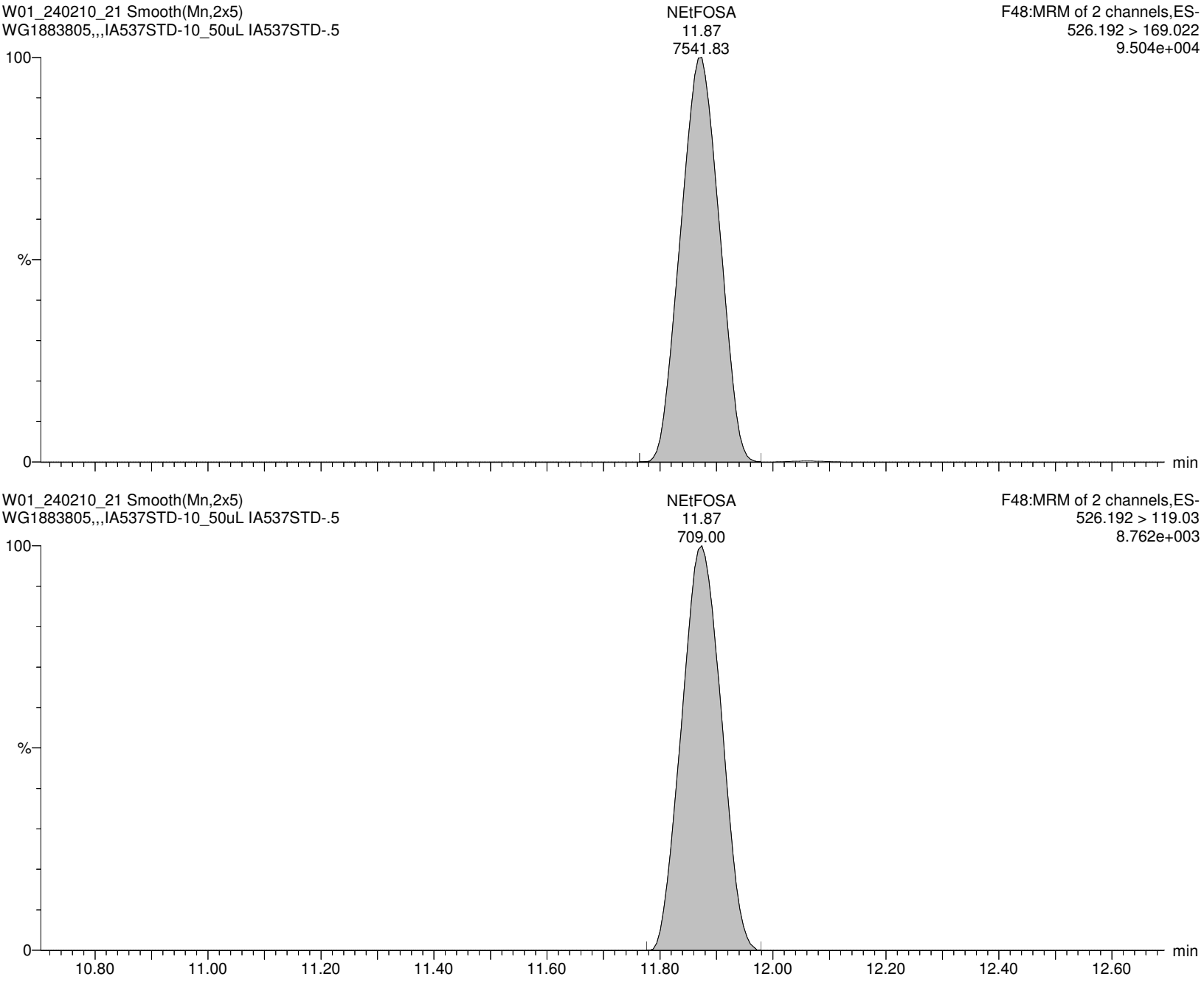

all concentration units in (ng/mL)

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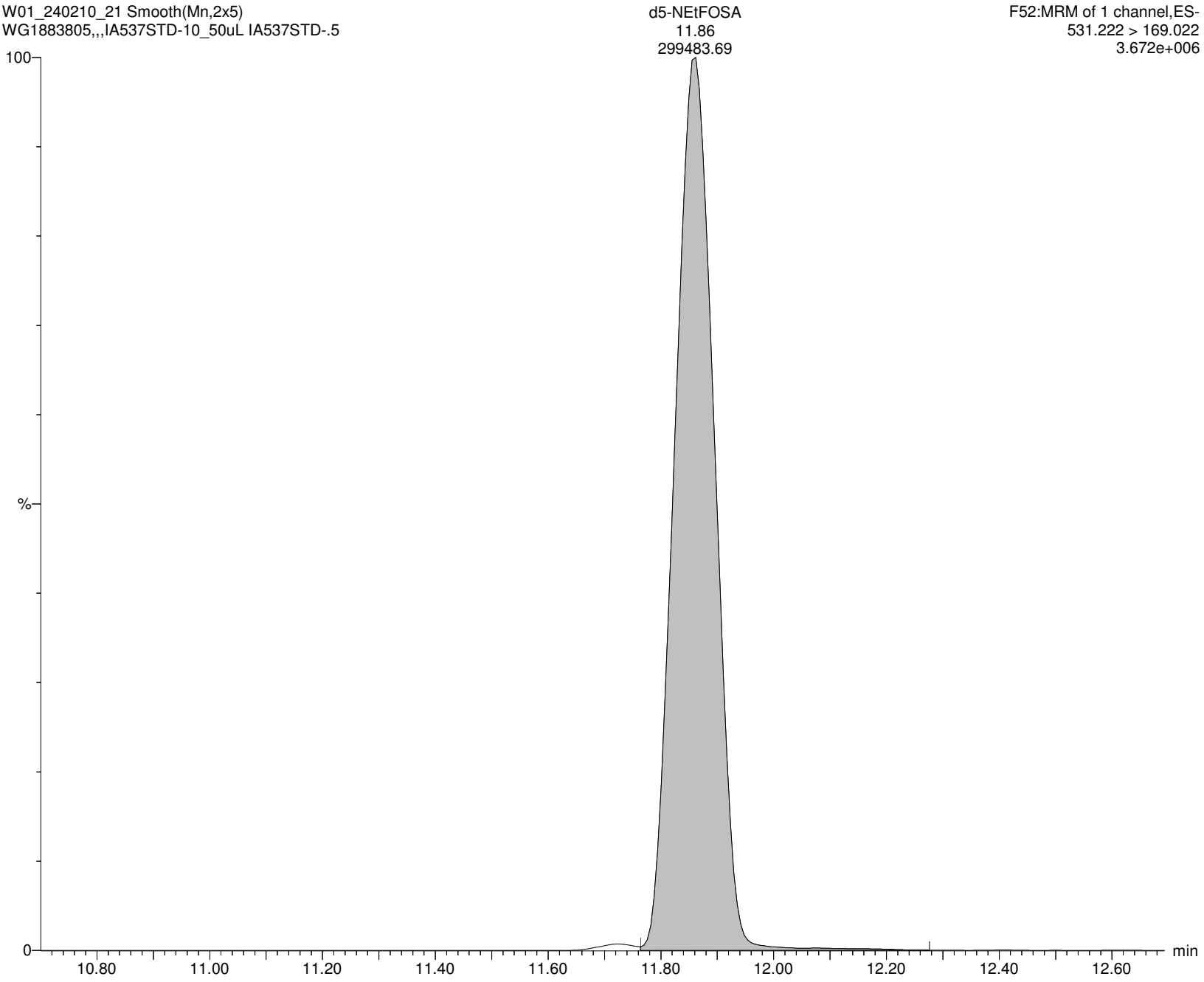

all concentration units in (ng/mL)

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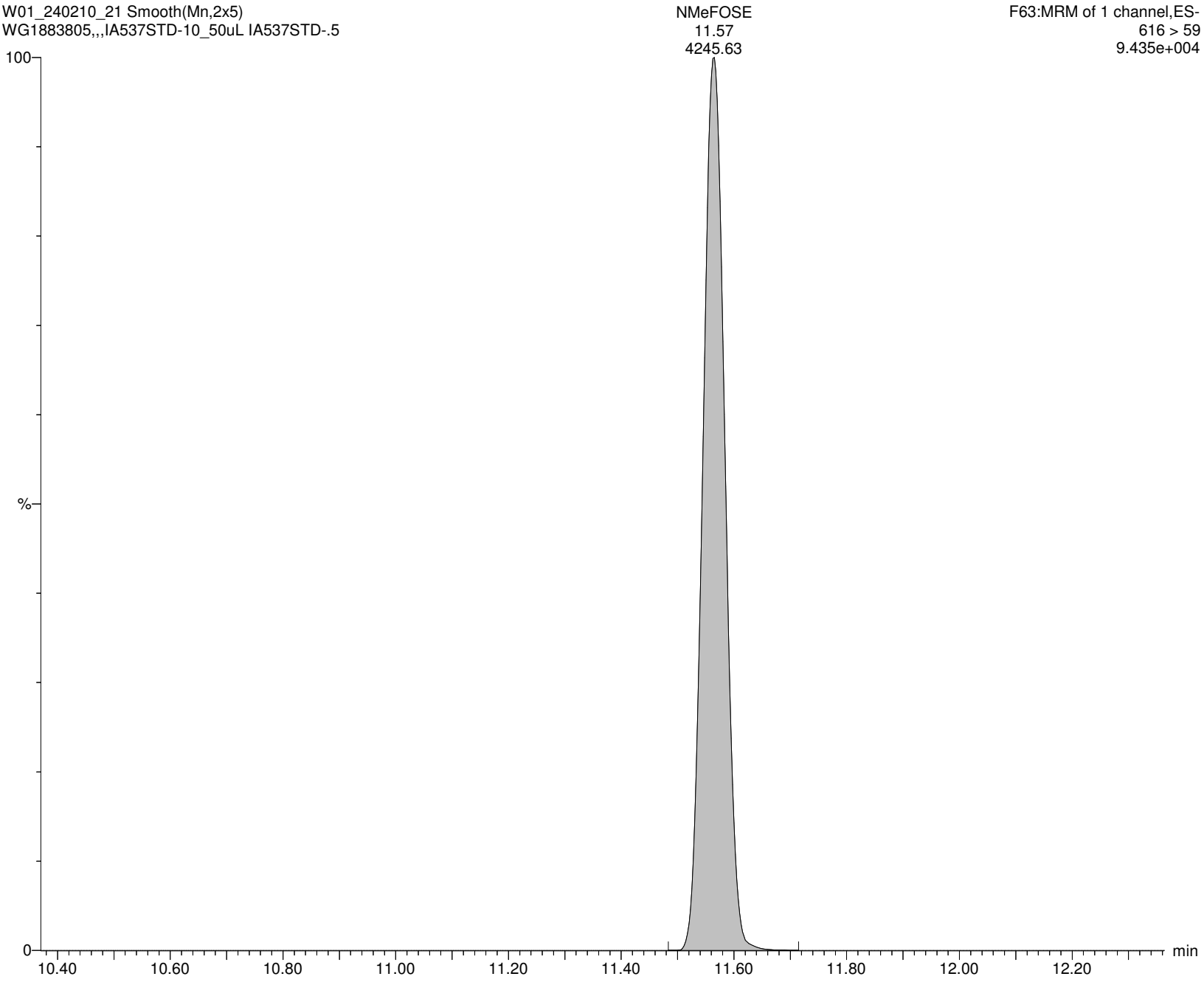

all concentration units in (ng/mL)

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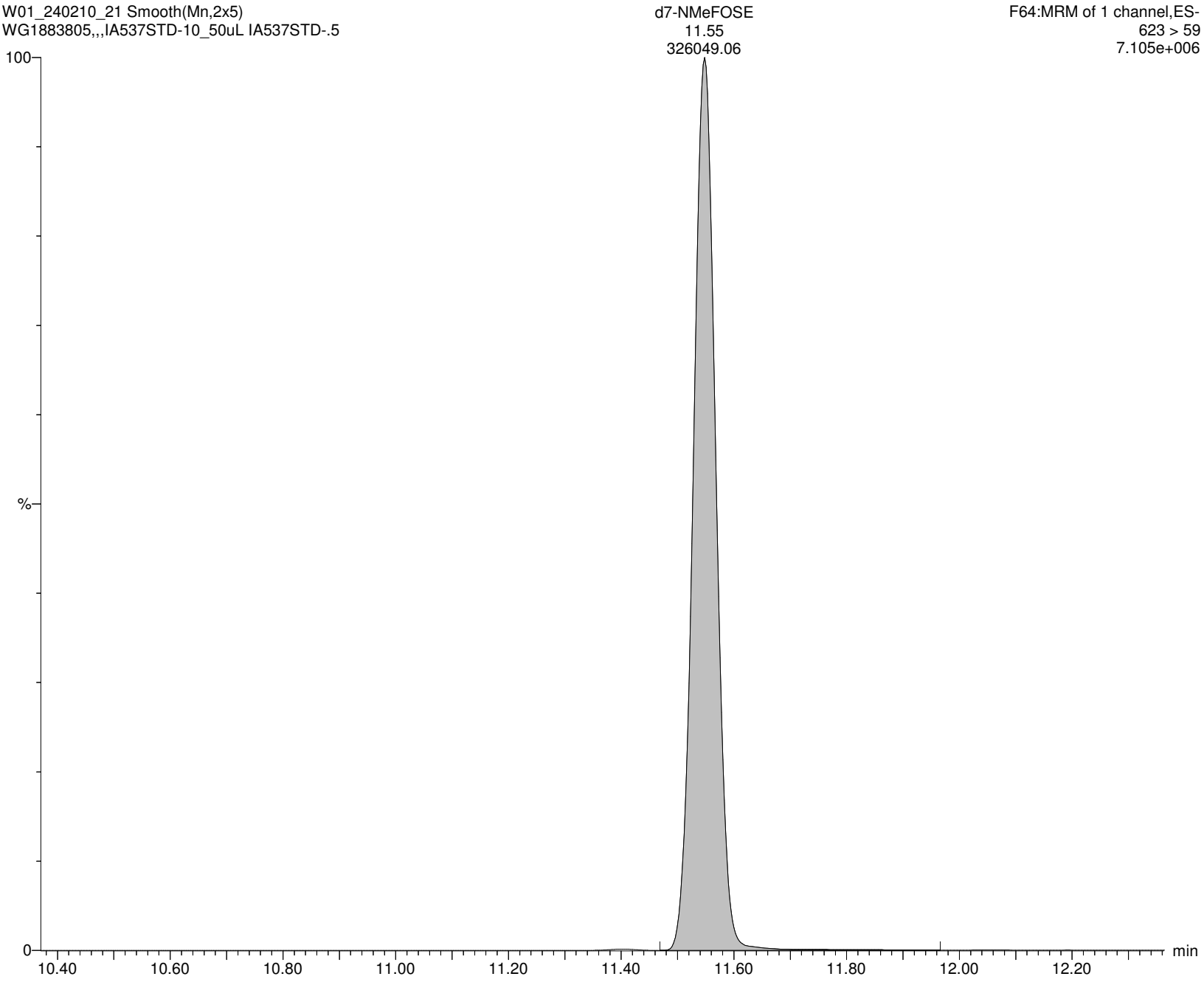

all concentration units in (ng/mL)

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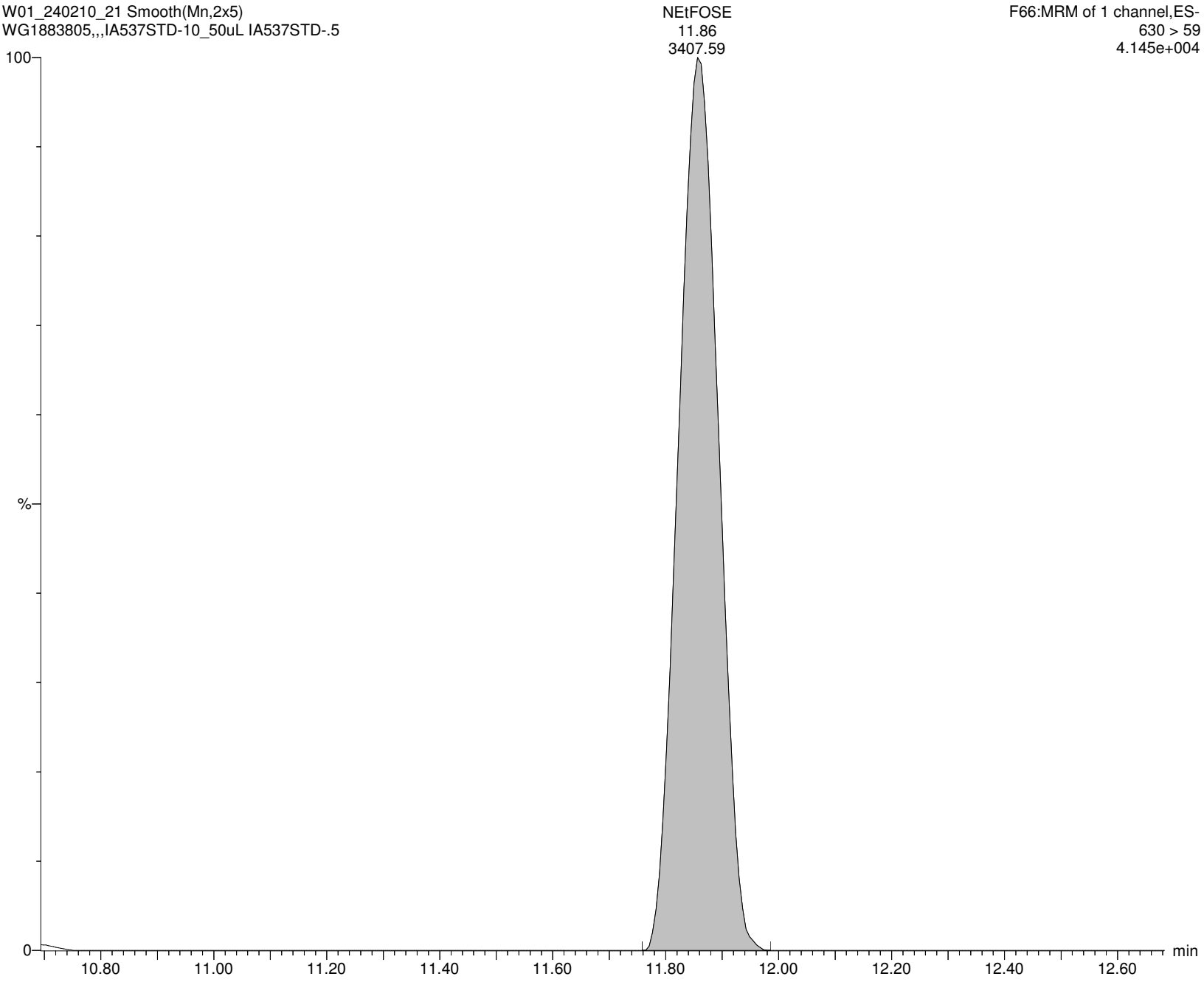
NEtFOSE



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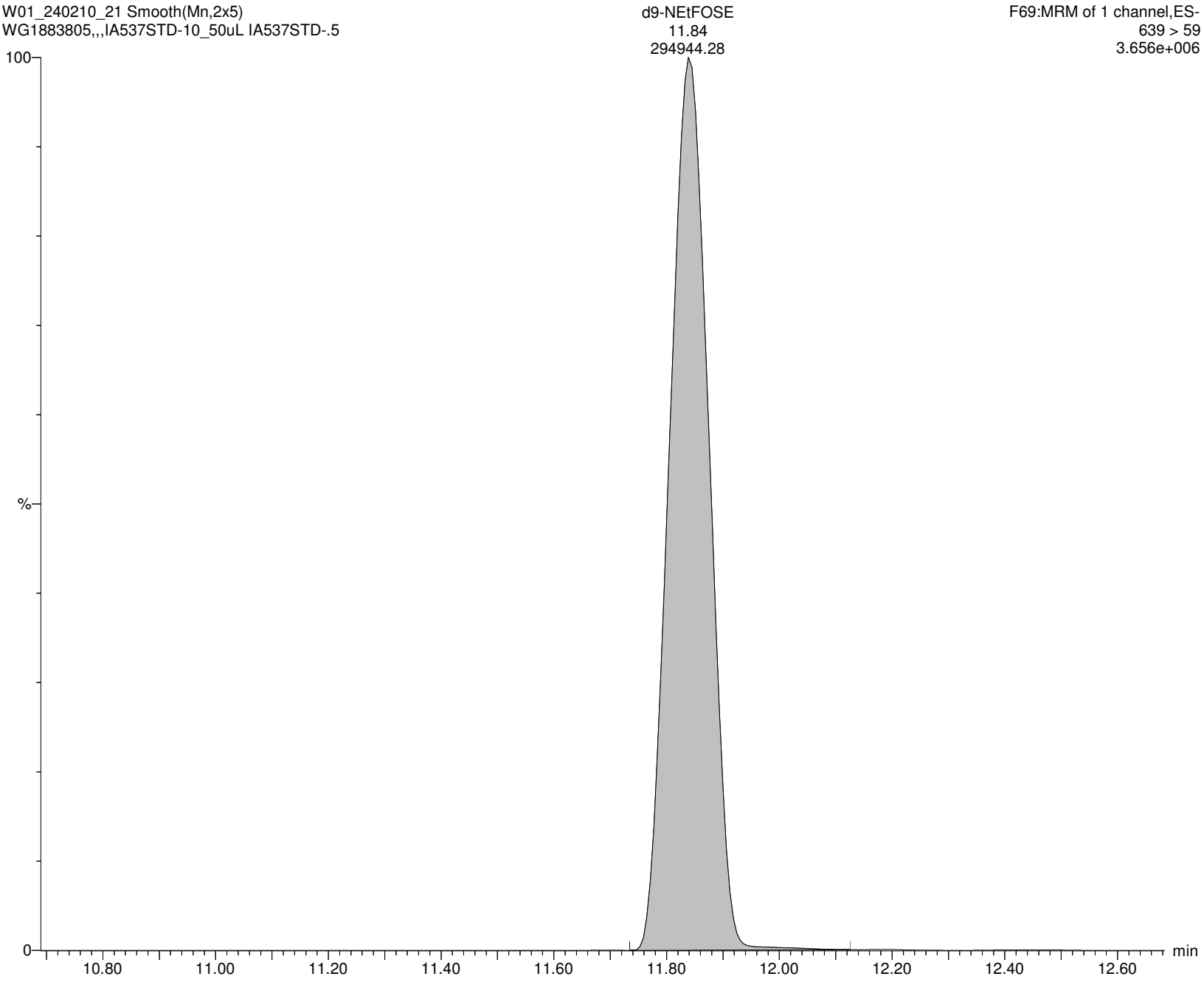

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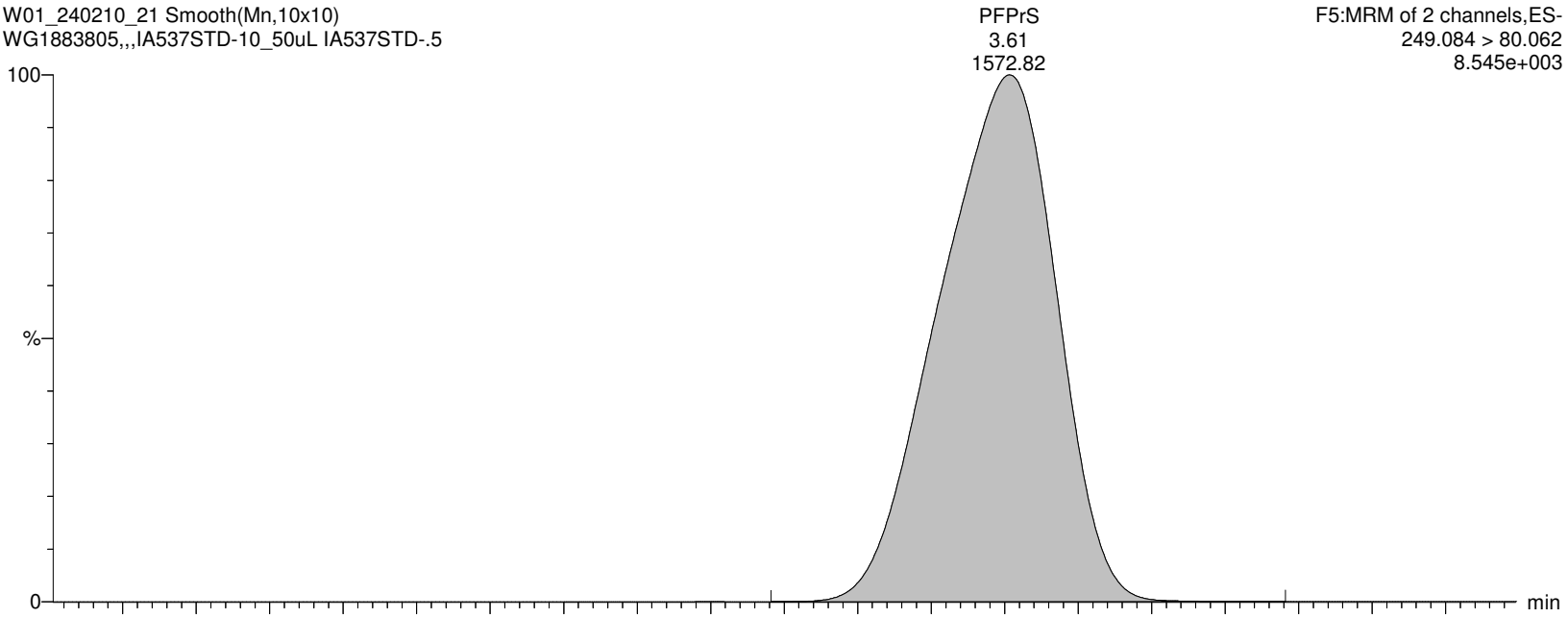

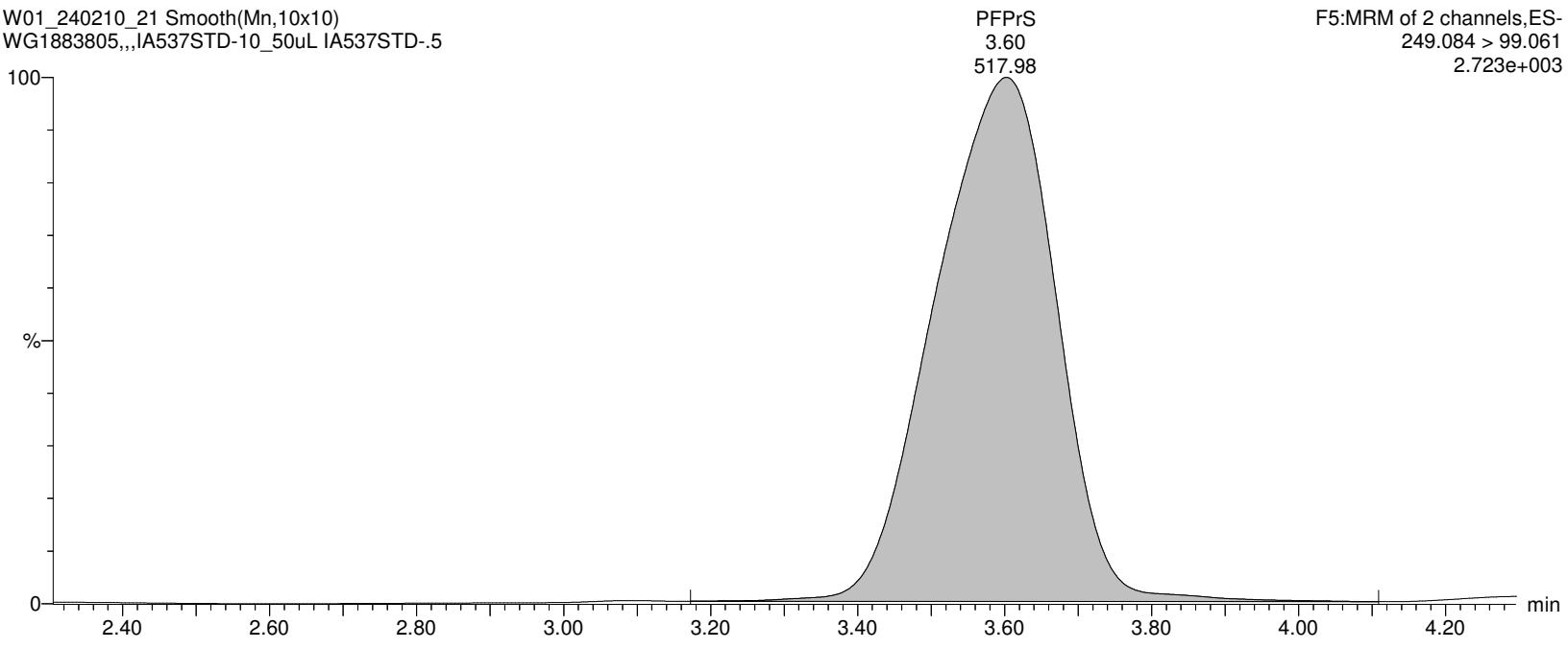

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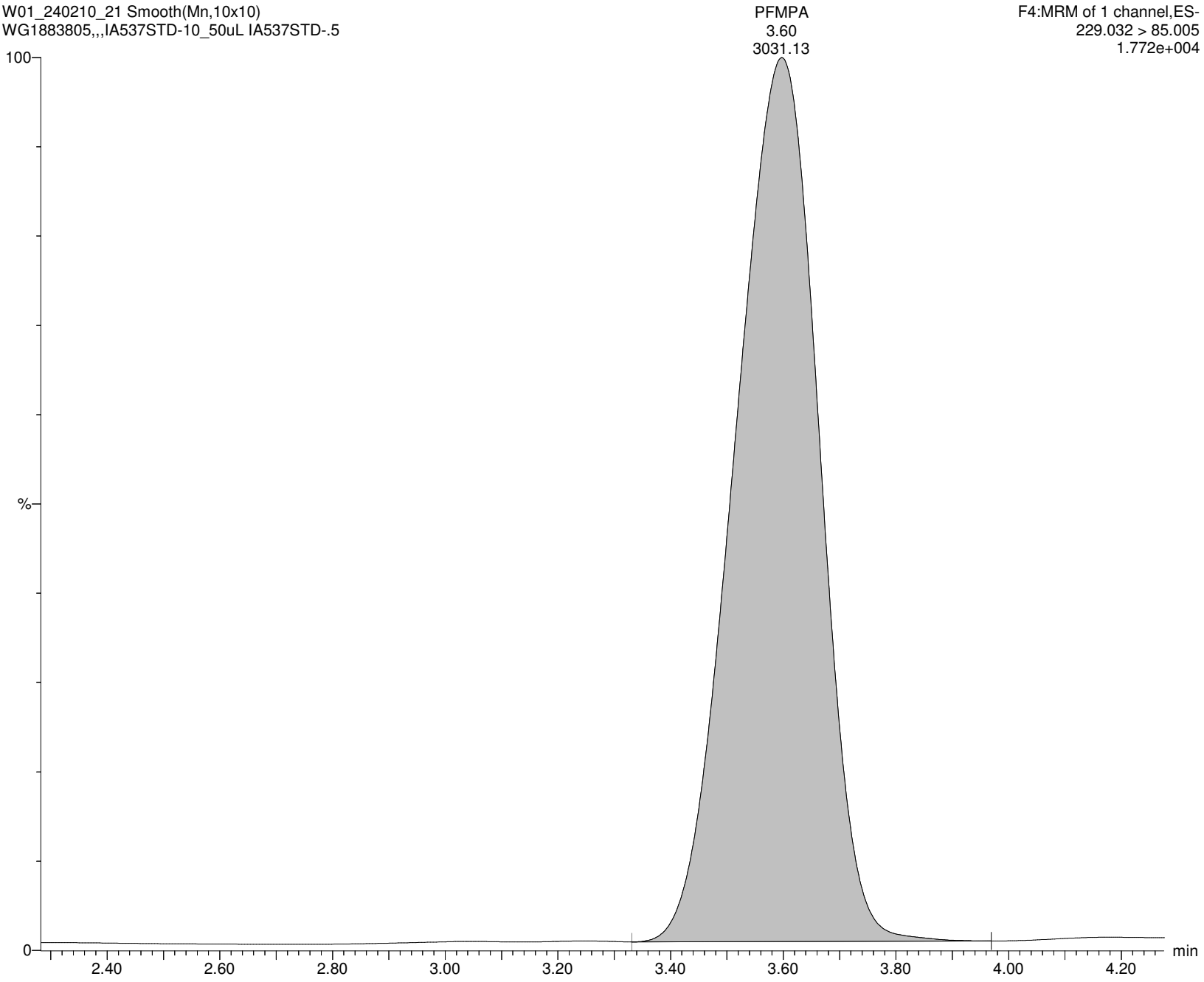

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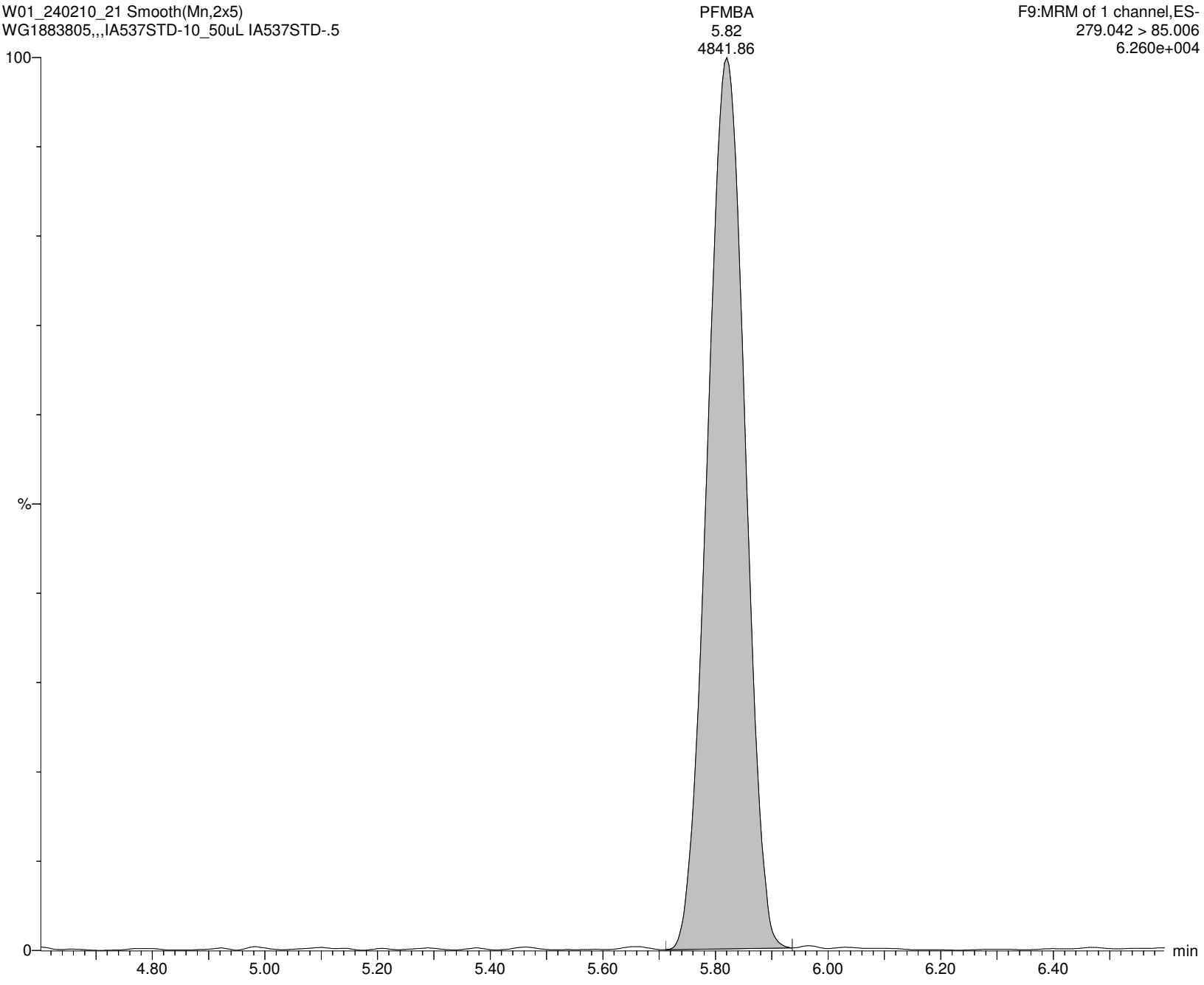

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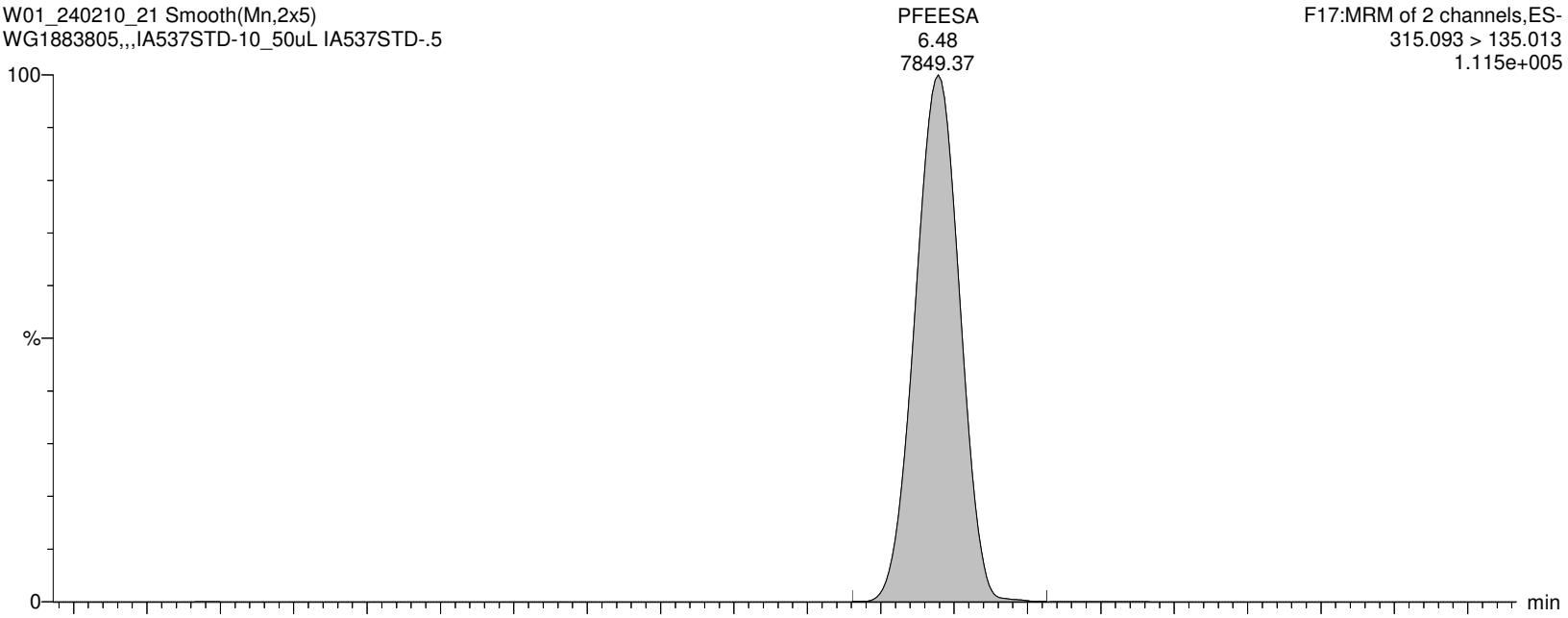

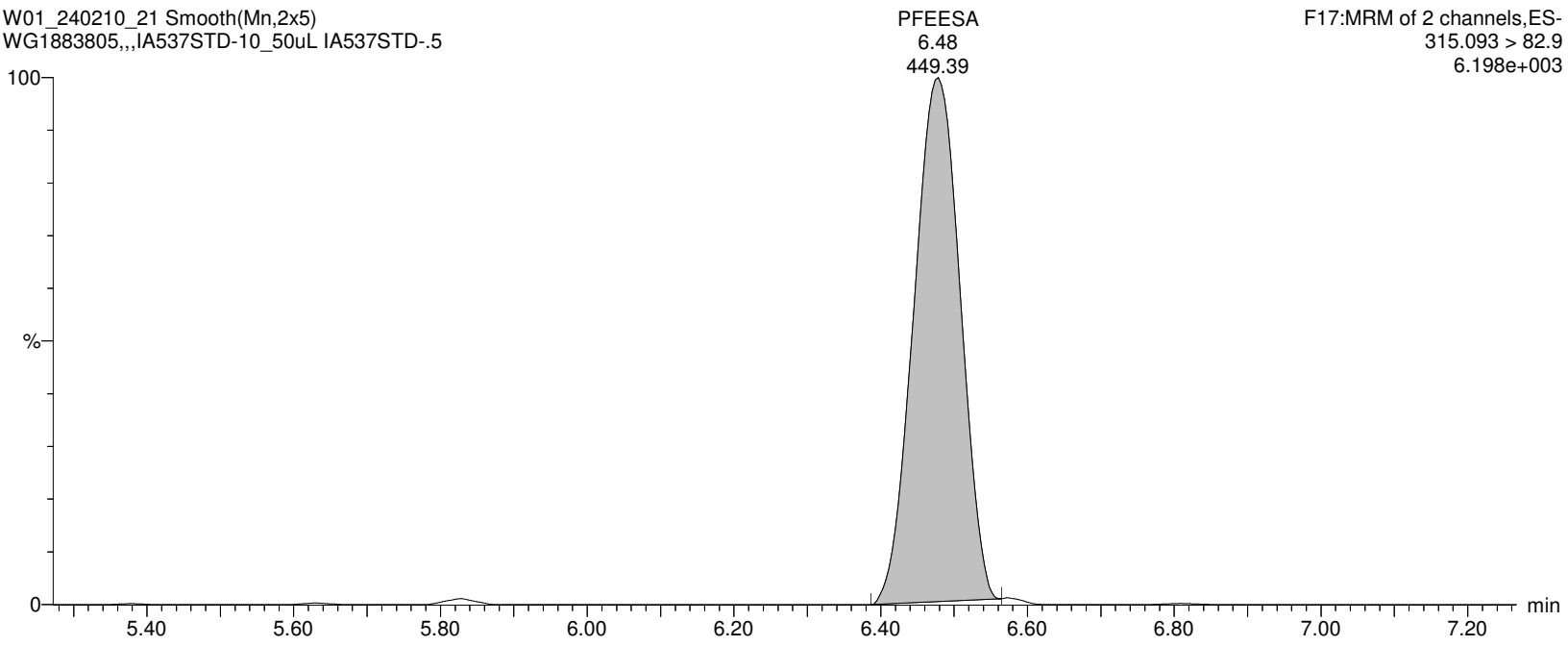

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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ID: IA537STD-.5
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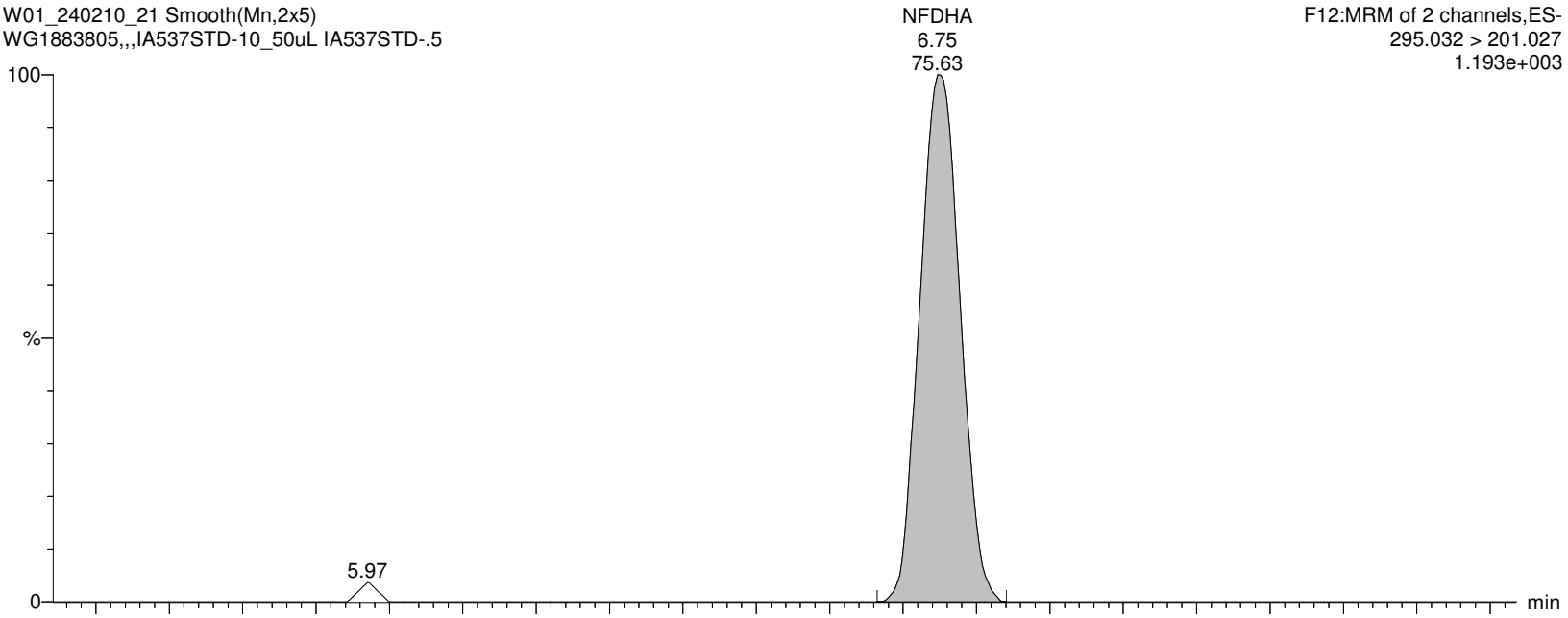
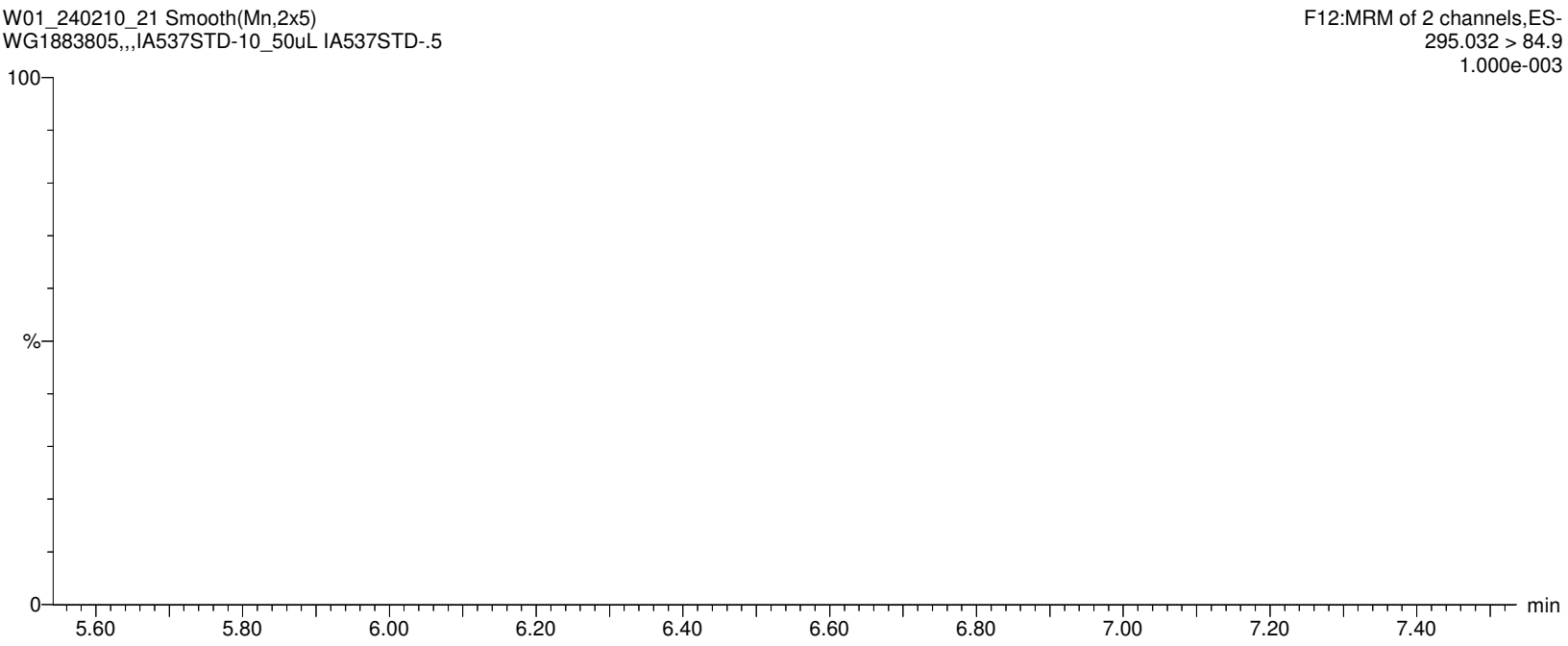
NFDHA





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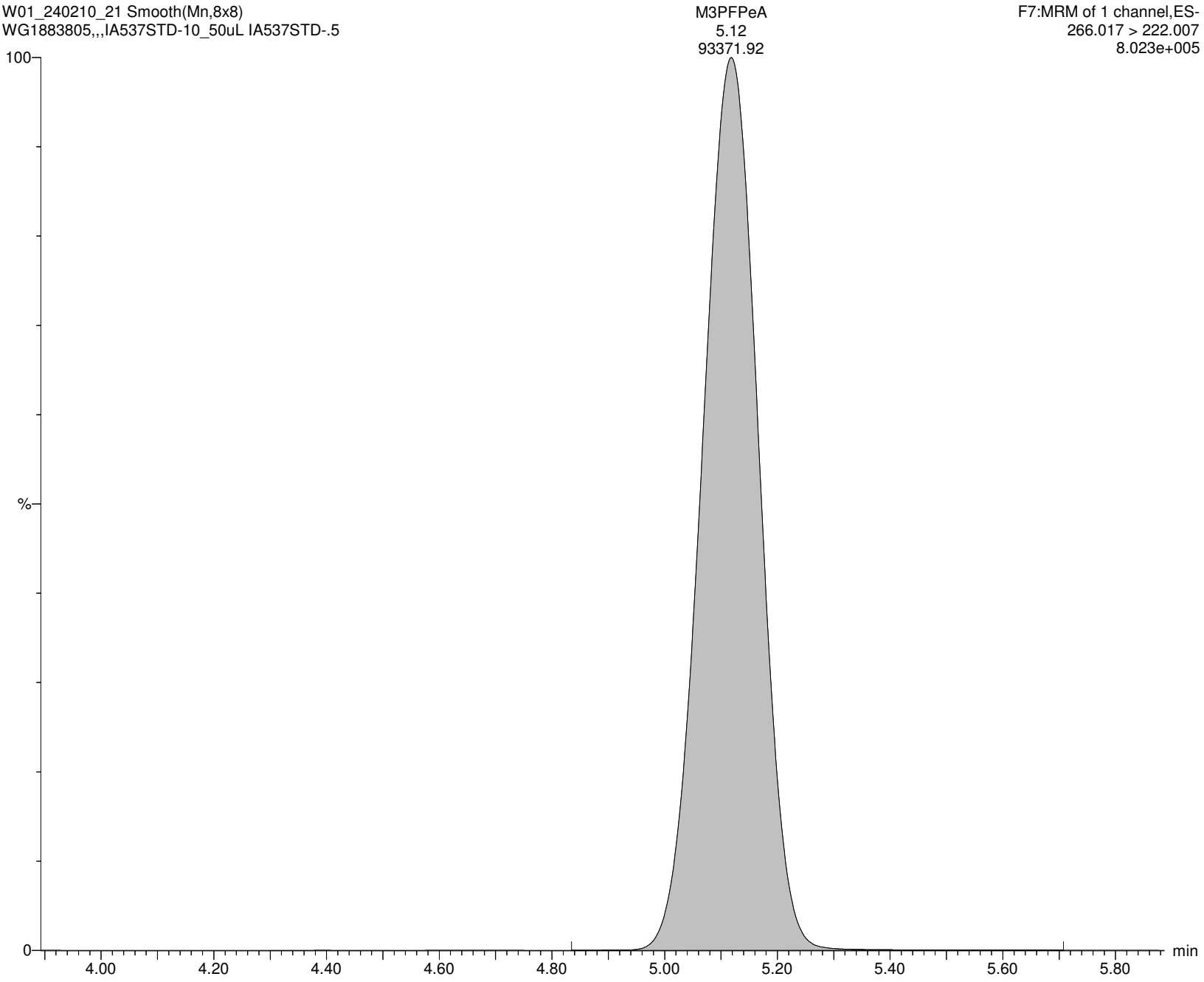

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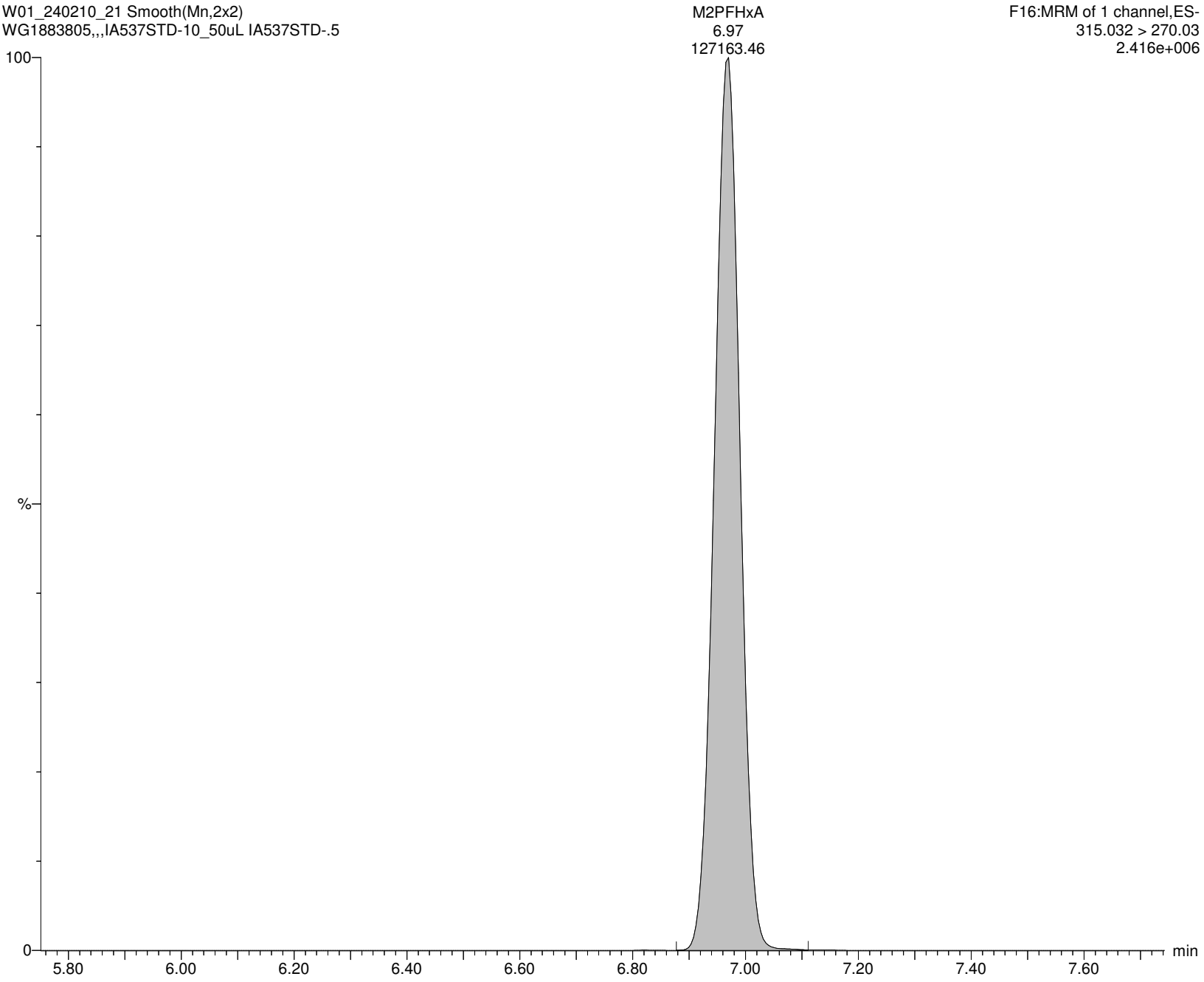

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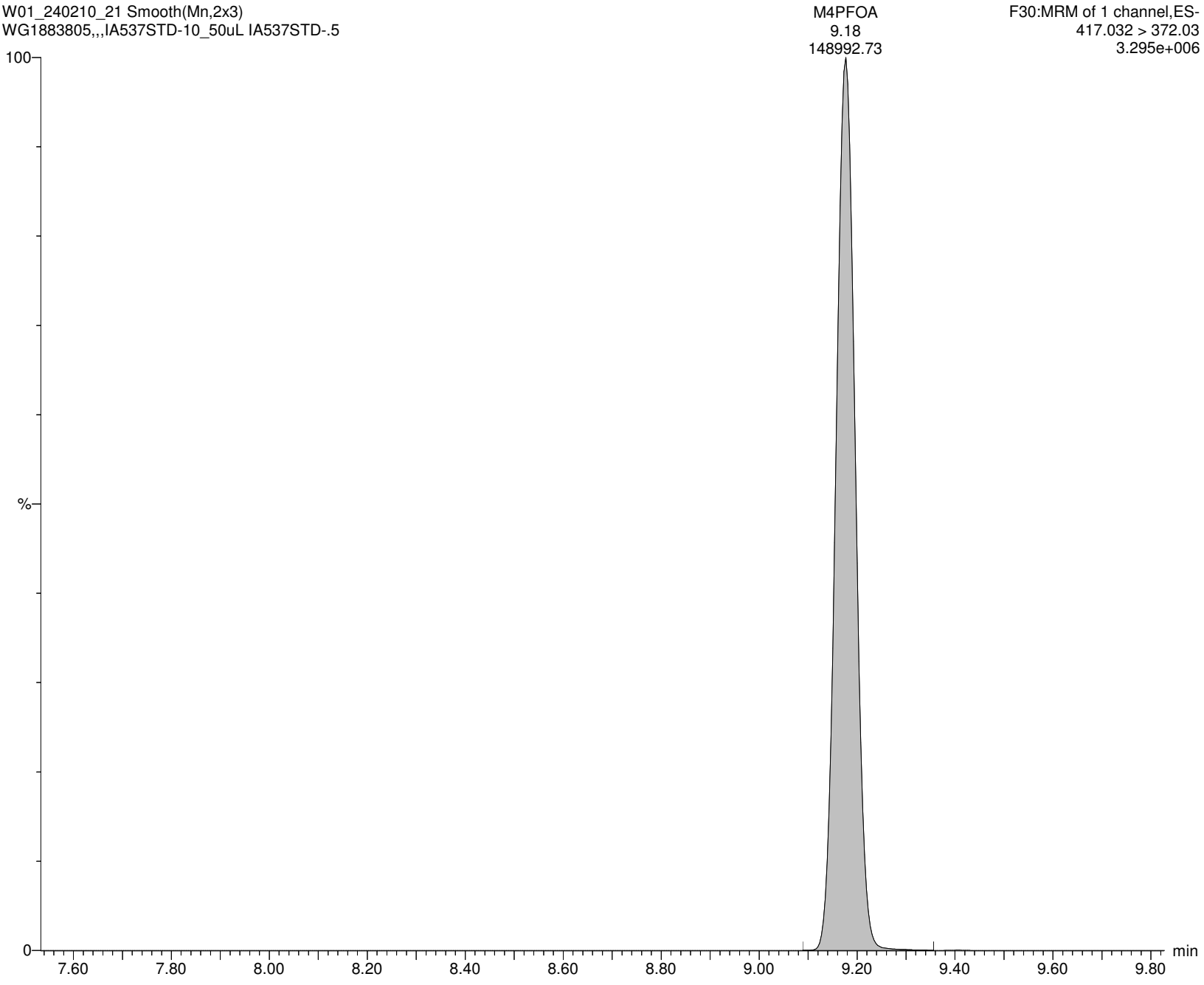

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Time: 16:30:05
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	7889		0.960		na	96.0
2	M3PFBA	INT STD	2.24	216.009 > 171.999	79027		10.304		na	103.0
3	MPFBA	INT STD	2.24	217.001 > 171.999	90745		10.092		na	100.9
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	9532		0.983		na	98.3
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	95898		10.214		na	102.1
6	PFBS	375-73-5	5.75	299.092 > 80.062	3131		0.838	1.83	NO	94.5
7	M3PFBS	INT STD	5.75	302.069 > 80.062	33730		8.965		na	96.2
8	4:2FTS	757124-72-4	6.89	327.146 > 307.139	972		0.926	2.25	NO	98.8
9	M2-4:2FTS	INT STD	6.89	329.13 > 309.124	9384		8.465		na	90.2
10	PFHxA	307-24-4	6.97	313.047 > 269.037	13449		1.023	14.74	NO	102.3
11	M5PFHxA	INT STD	6.97	318.009 > 273.007	138426		10.076		na	100.8
12	PFPeS	2706-91-4	7.28	349.1 > 80.062	3299		0.829	1.56	NO	88.0
13	PFHpA	375-85-9	8.24	363.055 > 319.045	15252		1.010	4.61	NO	101.0
14	M4PFHpA	INT STD	8.24	367.025 > 322.022	150213		10.276		na	102.8
15	br-PFHxS	355-46-4	8.16	399.107 > 80.062	586	M5,M7	0.154	2.07	NO	89.0
16	L-PFHxS	355-46-4	8.39	399.107 > 80.062	2575		0.643	1.49	NO	86.8
17	PFHxS	355-46-4		399.107 > 80.062	3161		0.797		na	
18	M3PFHxS	INT STD	8.39	402.084 > 80.062	34840		9.628		na	101.6
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.18	413.063 > 369.053	16353		0.961	11.69	NO	96.1
21	PFOA	335-67-1		413.063 > 369.053	16353		0.961		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	165433		10.416		na	104.2
23	M2PFOA	INT STD	9.18	415.048 > 370.045	156924		10.570		na	105.7
24	6:2FTS	27619-97-2	9.14	427.161 > 407.155	842		0.915	3.78	NO	96.3
25	M2-6:2FTS	INT STD	9.14	429.146 > 409.14	10132		7.955		na	83.6
26	PFHpS	375-92-8	9.28	449.115 > 80.062	3628		0.964	1.63	NO	101.1
27	PFNA	375-95-1	9.96	463.071 > 419.061	17076		0.976	8.00	NO	97.6
28	M9PFNA	INT STD	9.96	472.002 > 427.	173622		10.522		na	105.2
29	br-PFOS	1763-23-1	9.82	499.123 > 80.062	838	M5,M7	0.162	3.14	NO	82.5
30	L-PFOS	1763-23-1	10.01	499.123 > 80.062	3069		0.672	1.73	NO	91.8
31	PFOS	1763-23-1		499.123 > 80.062	3906		0.833		na	
32	M4PFOS	INT STD	10.01	503.093 > 80.062	39610		10.695		na	111.4
33	M8PFOS	INT STD	10.01	507.062 > 80.062	40690		9.629		na	100.4
34	PFDA	335-76-2	10.60	513.078 > 469.069	14594		0.985	4.99	NO	98.5
35	M2PFDA	INT STD	10.61	515.063 > 470.061	150113		11.189		na	111.9
36	M6PFDA	INT STD	10.61	519.033 > 474.03	152266		10.174		na	101.7
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	898		0.939	2.74	NO	97.8
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	11002		8.169		na	85.1
39	PFNS	68259-12-1	10.63	549.131 > 80.062	4171		0.919	2.38	NO	95.5

all concentration units in (ng/mL)

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Name: W01_240210_22
Date: 10-Feb-2024
Time: 16:30:05
Description: WG1883805,,IA537STD-10_100uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.98	573.22 > 419.061	19861		8.640		na	86.4
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	123	M5,M7	0.210	0.99	NO	87.4
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	1172		0.859	2.30	NO	113.0
43	NMeFOSAA	2355-31-9		570.202 > 419.061	1294		1.068		na	
44	PFUnA	2058-94-8	11.17	563.086 > 519.076	16321		0.923	5.85	NO	92.3
45	M7-PFUDA	INT STD	11.17	570.033 > 525.031	170250		10.441		na	104.4
46	PFDS	335-77-3	11.18	598.926 > 80.062	3528		0.861	1.72	NO	89.3
47	FOSA	754-91-6	10.94	498.146 > 78.07	10349		0.895	83.05	YES	89.5
48	M8FOSA	INT STD	10.94	506.077 > 78.07	104506		9.496		na	95.0
49	d5-NEtFOSAA	INT STD	11.28	589.259 > 419.061	19169		8.848		na	88.5
50	br-NEtFOSAA	2991-50-6	11.13	584.229 > 419.061	181	M5,M7	0.250	1.13	NO	111.1
51	L-NEtFOSAA	2991-50-6	11.28	584.229 > 419.061	1091		0.705	1.41	NO	91.0
52	NEtFOSAA	2991-50-6		584.229 > 419.061	1272		0.955		na	
53	PFDoA	307-55-1	11.66	613.094 > 569.084	18404		0.917	6.69	NO	91.7
54	MPFDOA	INT STD	11.67	615.079 > 570.077	184837		10.100		na	101.0
55	PFTrDA	72629-94-8	12.09	663.102 > 619.092	13230		0.993	9.84	NO	99.3
56	PFTA	376-06-7	12.46	713.11 > 669.1	17434		0.960	14.44	NO	96.0
57	M2PFTEDA	INT STD	12.46	715.094 > 670.092	163186		9.887		na	98.9
58	M3HFPO-DA	INT STD	7.40	287.02 > 169.022	197429		221.470		na	110.7
59	HFPO-DA	13252-13-6	7.40	285.035 > 169.022	6209		8.459	36.05	NO	84.6
60	ADONA	958445-44-8	8.41	377.06 > 251.028	17303	M7	0.935	91.04	NO	99.0
61	PFHxDA		12.85	813.122 > 769.116	29058		1.065	56.82	NO	106.5
62	PFODA		13.07	913.411 > 869.131	7831		1.040	119.64	NO	104.0
63	M2PFHxDA		12.85	815.102 > 770.108	249532		9.761		na	97.6
64	PFDoS		12.08	699.154 > 80.062	2988		0.739	1.58	NO	76.4
65	M2D4-10:2FTS		11.67	633.201 > 612.189	11717		20.209		na	103.1
66	10:2FTS		11.68	627.192 > 607.186	1006	M4,M7	1.099	3.17	NO	113.8
67	9CL-PF3ONS		10.37	531.096 > 351.07	8650		0.813	2.40	NO	87.2
68	11CL-PFOUdS		11.45	631.096 > 451.076	8074		0.789	2.69	NO	83.6
69	NMeFOSA		11.57	512.163 > 169.022	15671		4.992	1.60	NO	99.8
70	d3-NMeFOSA		11.57	515.183 > 169.022	303154		97.620		na	97.6
71	NEtFOSA		11.88	526.192 > 169.022	17642		5.610	14.23	YES	112.2
72	d5-NEtFOSA		11.87	531.222 > 169.022	302391		96.557		na	96.6
73	NMeFOSE		11.58	616 > 59	8960		2.216		na	88.6
74	d7-NMeFOSE		11.56	623 > 59	326966		95.929		na	95.9
75	NEtFOSE		11.87	630 > 59	9910		2.868		na	114.7
76	d9-NEtFOSE		11.85	639 > 59	348050		93.791		na	93.8
77	PFPrS		3.61	249.084 > 80.062	3436		0.815	3.03	NO	88.6
78	PFMPA		3.60	229.032 > 85.005	6533		0.950		na	95.0
79	PFMBA		5.82	279.042 > 85.006	9975		1.053		na	105.3
80	PFEESA		6.48	315.093 > 135.013	16469		0.765	15.65	NO	86.0
81	NFDHA		6.75	295.032 > 201.027	159		0.774		YES	77.4
82	M3PFPeA		5.12	266.017 > 222.007	150368		11.129		na	111.3

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.97	315.032 > 270.03	214078		11.175		na	111.8
84	M4PFOA		9.18	417.032 > 372.03	248589		11.271		na	112.7

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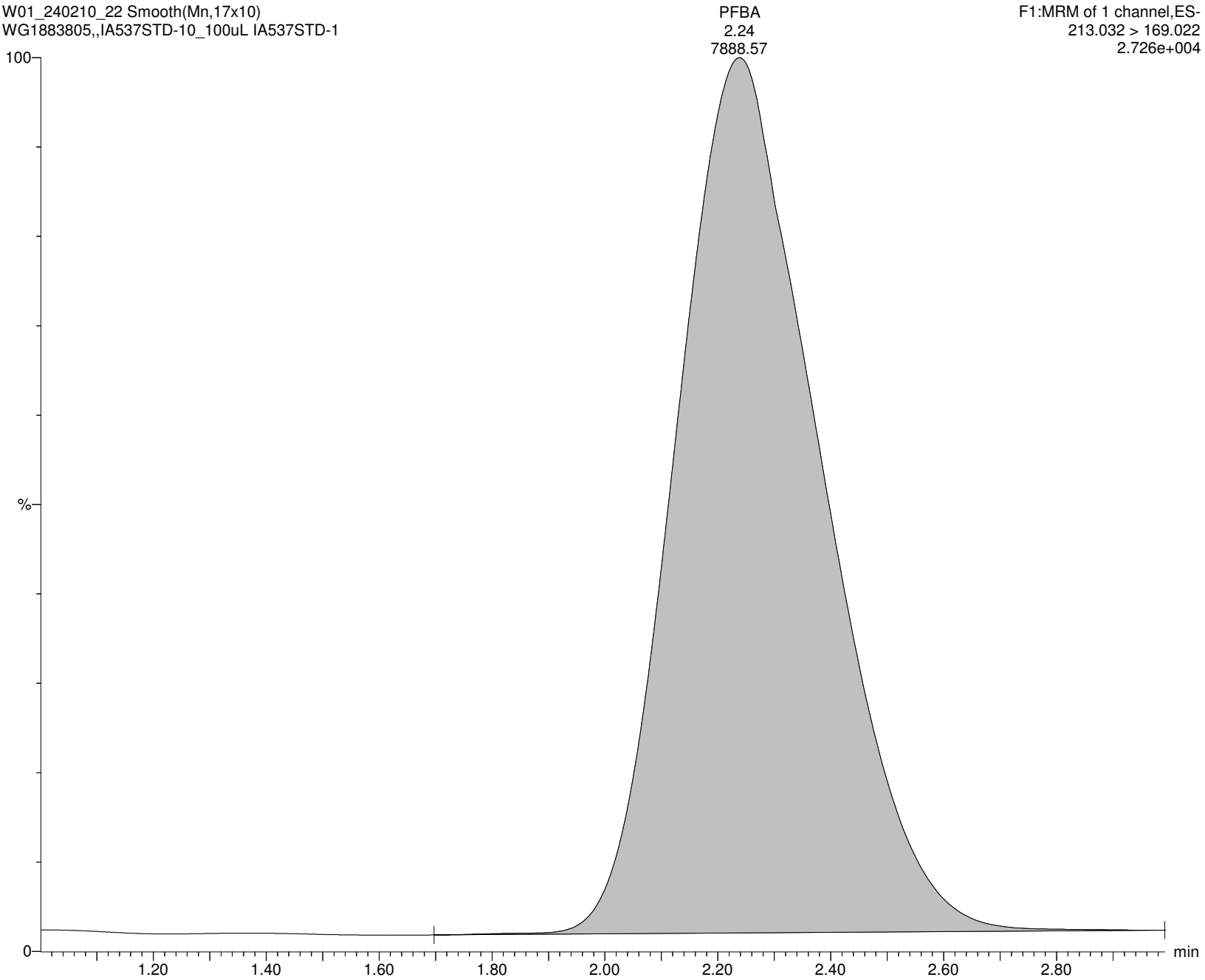

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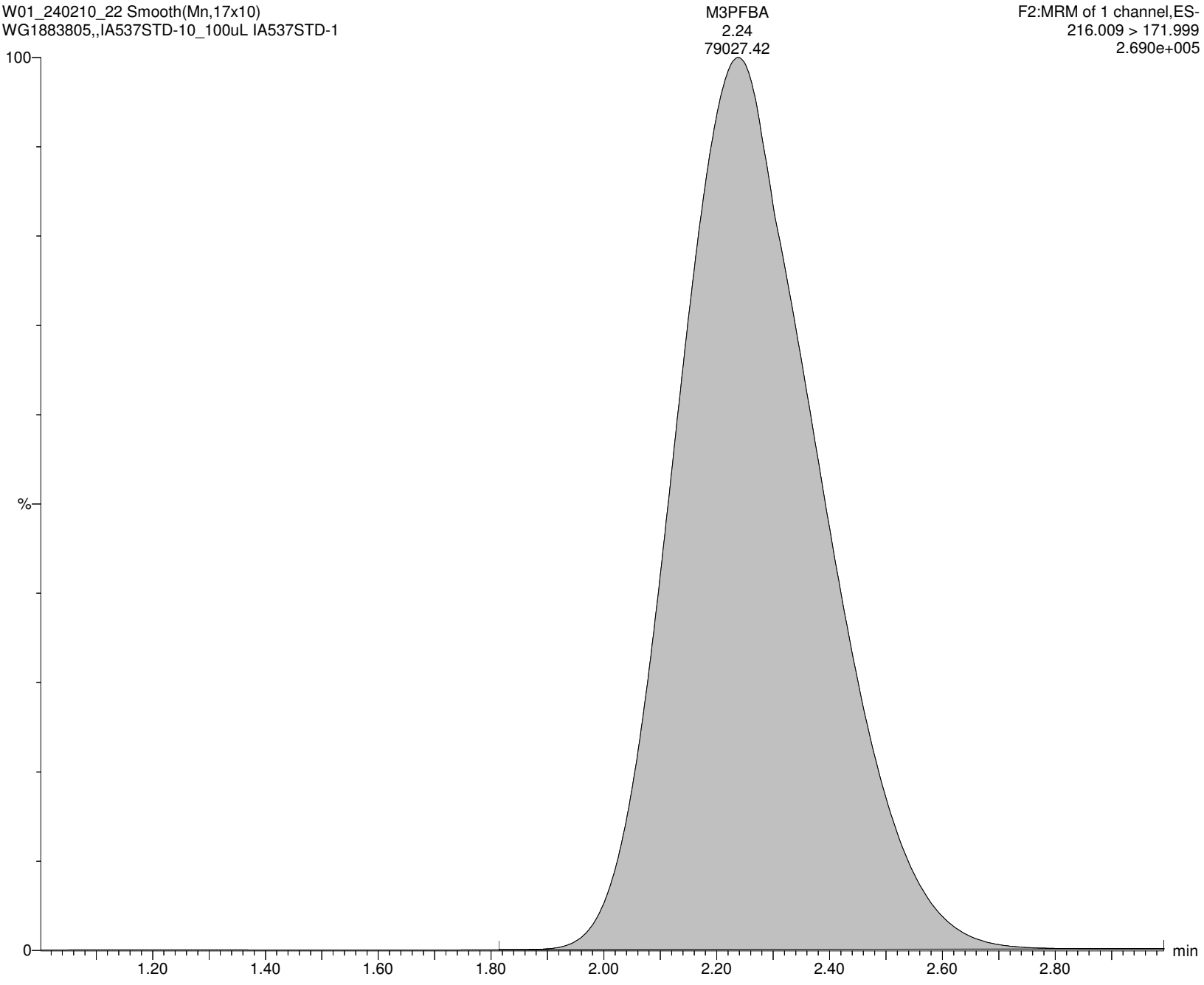
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:10 Eastern Standard Time

Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
Description: WG1883805,,IA537STD-10_100uL
User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
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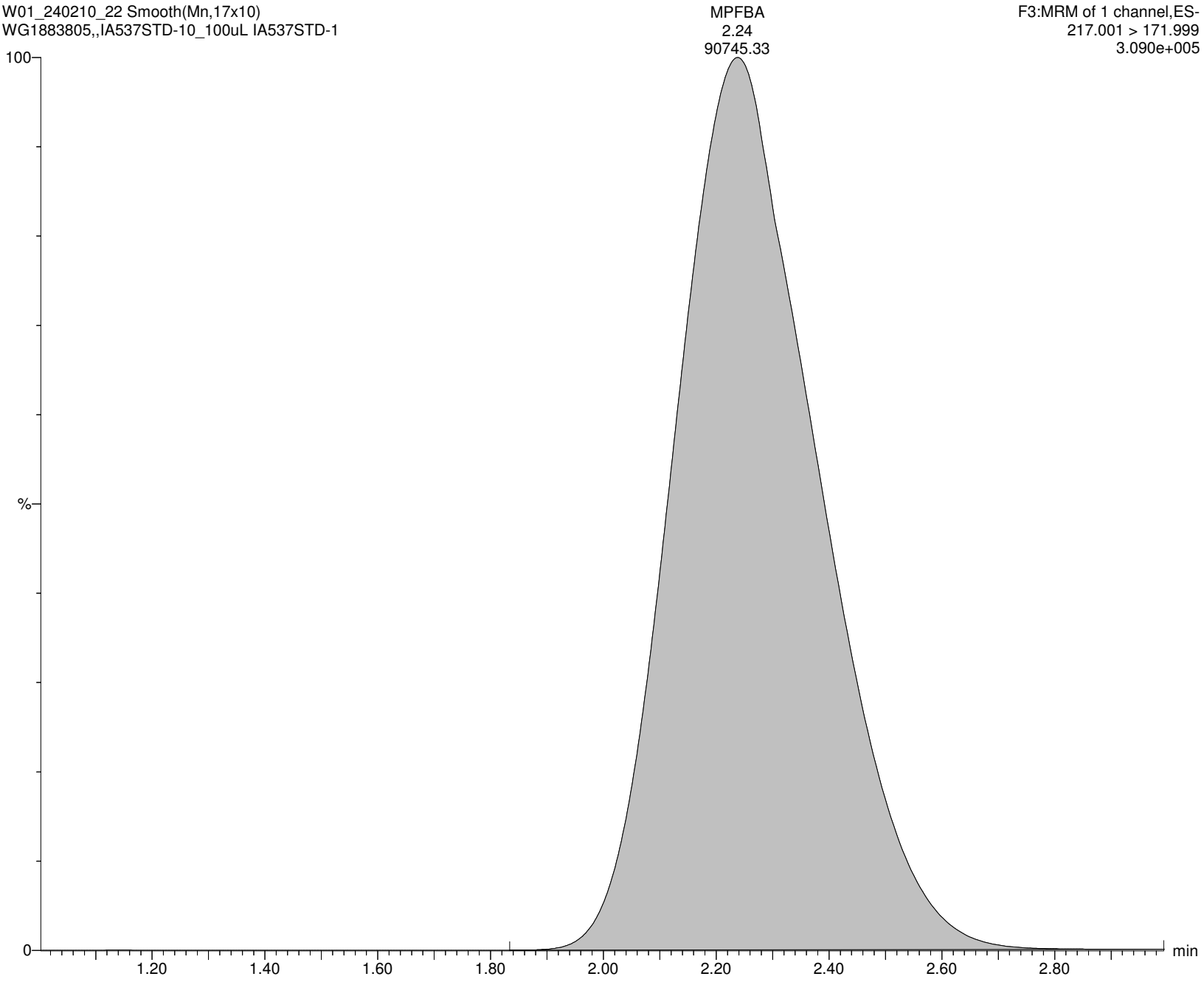

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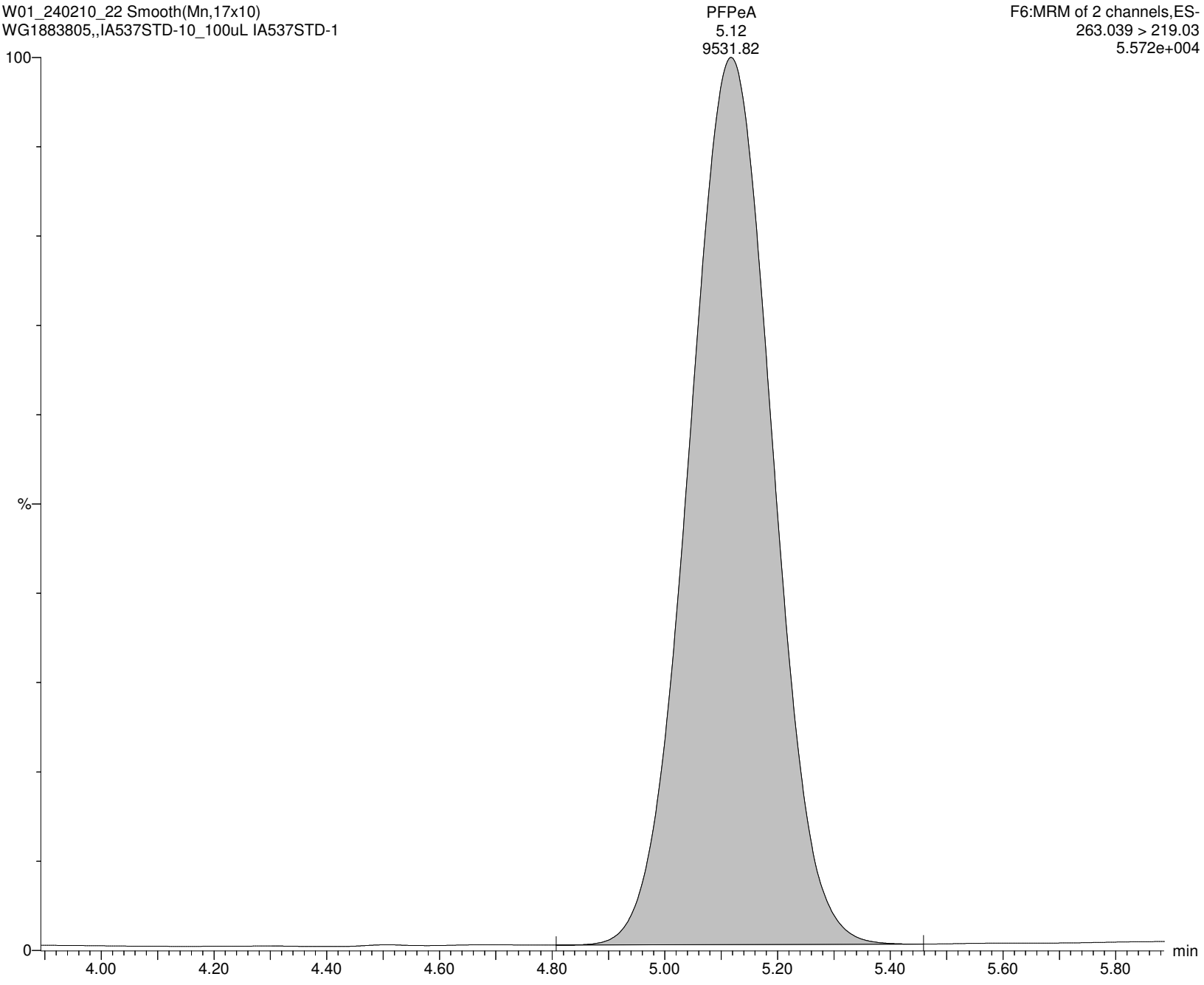

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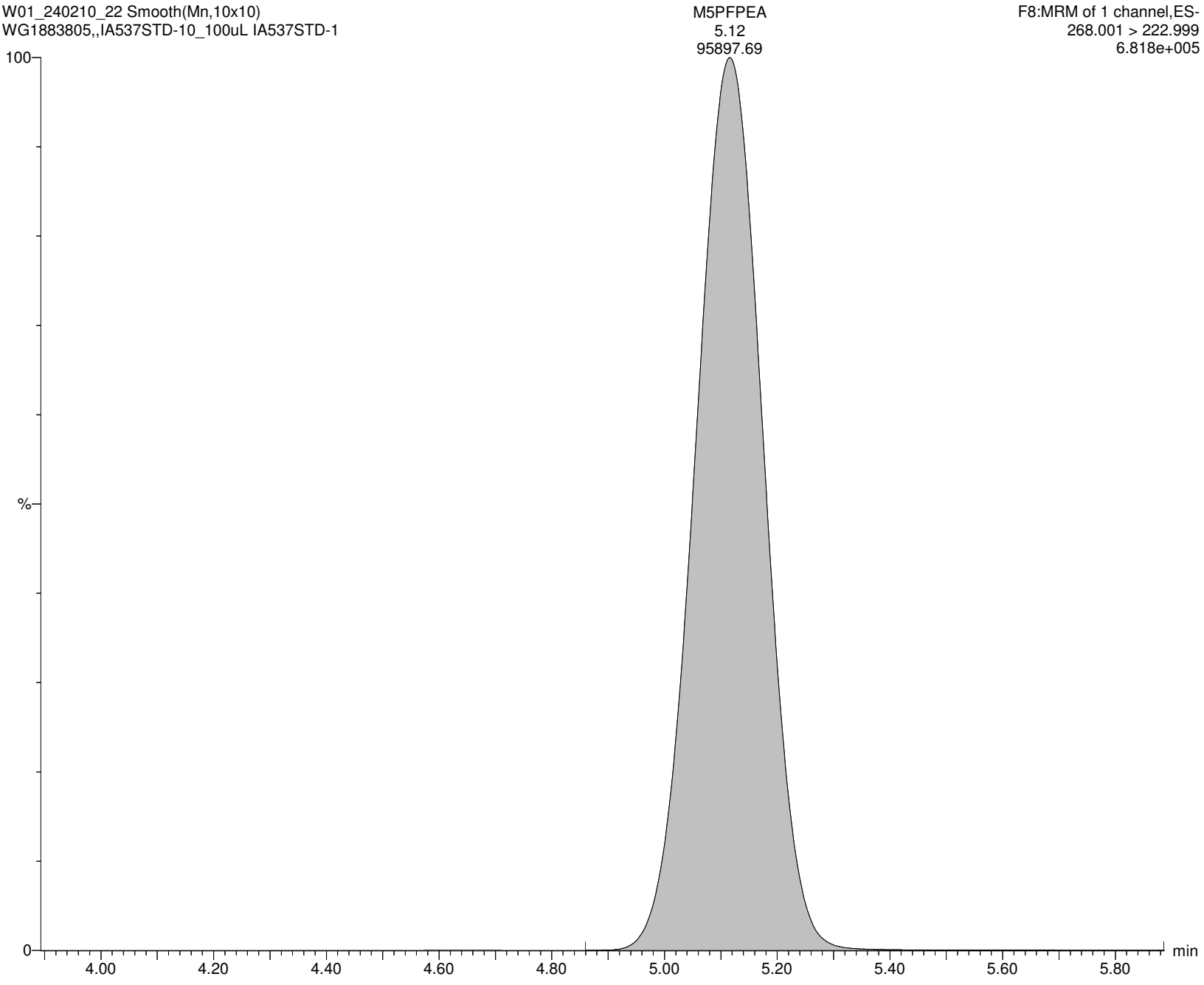

all concentration units in (ng/mL)

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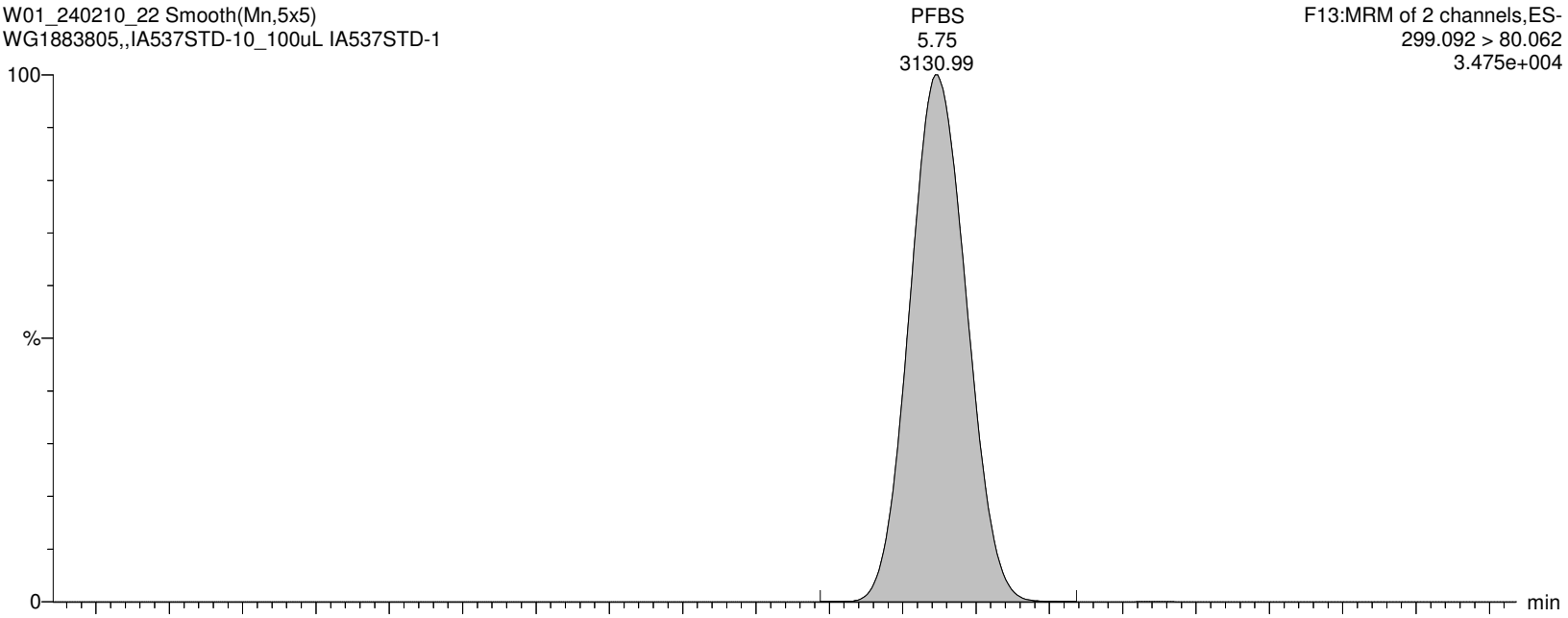

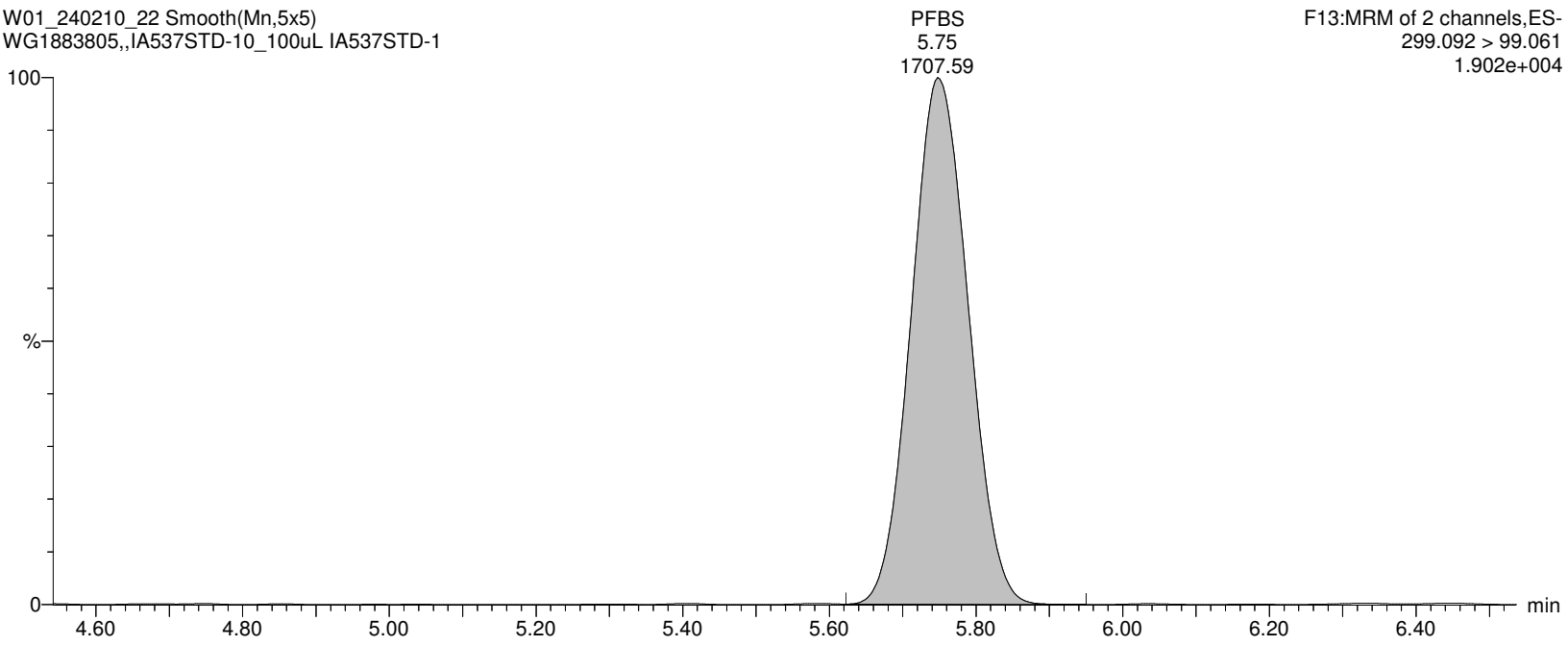

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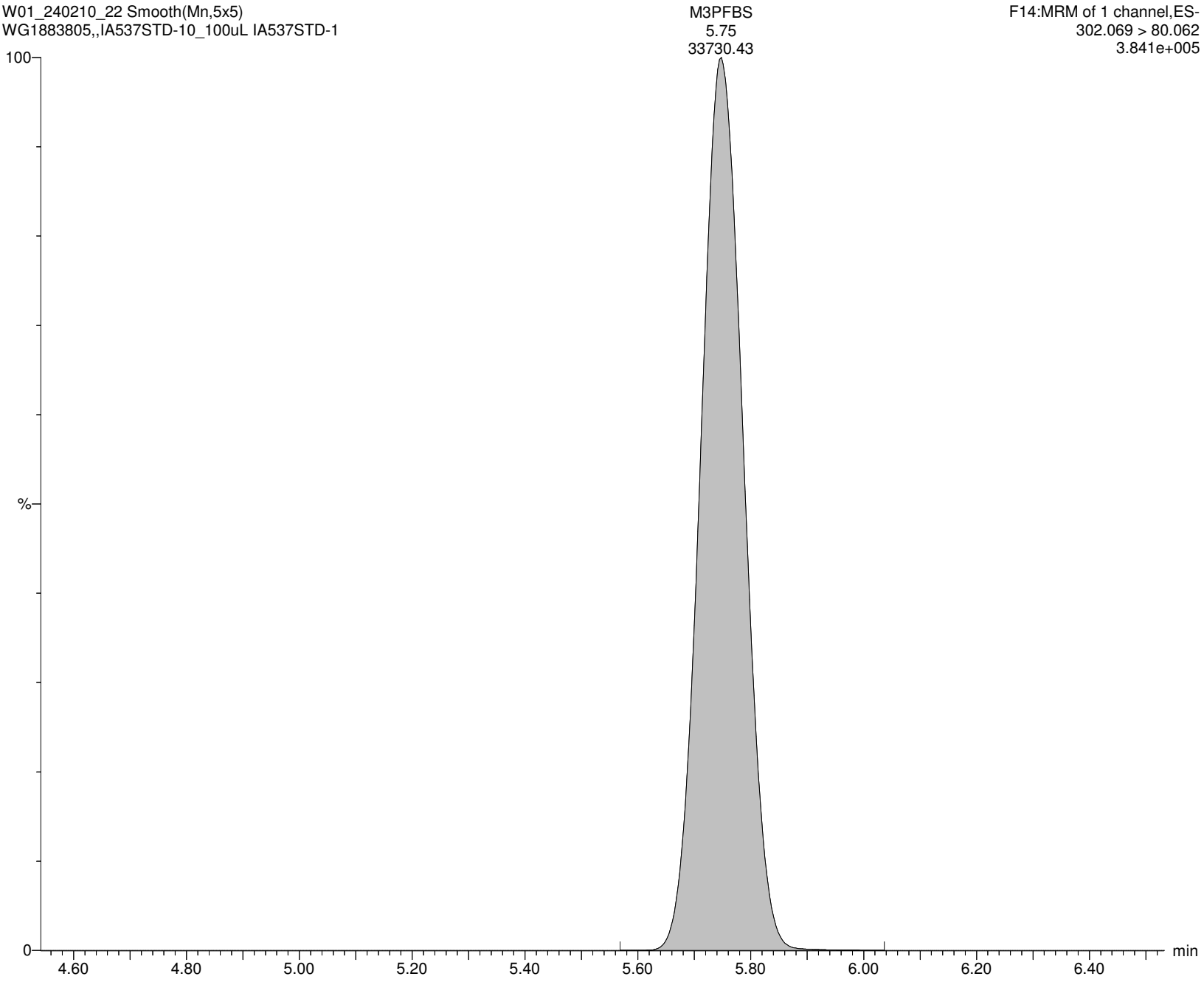

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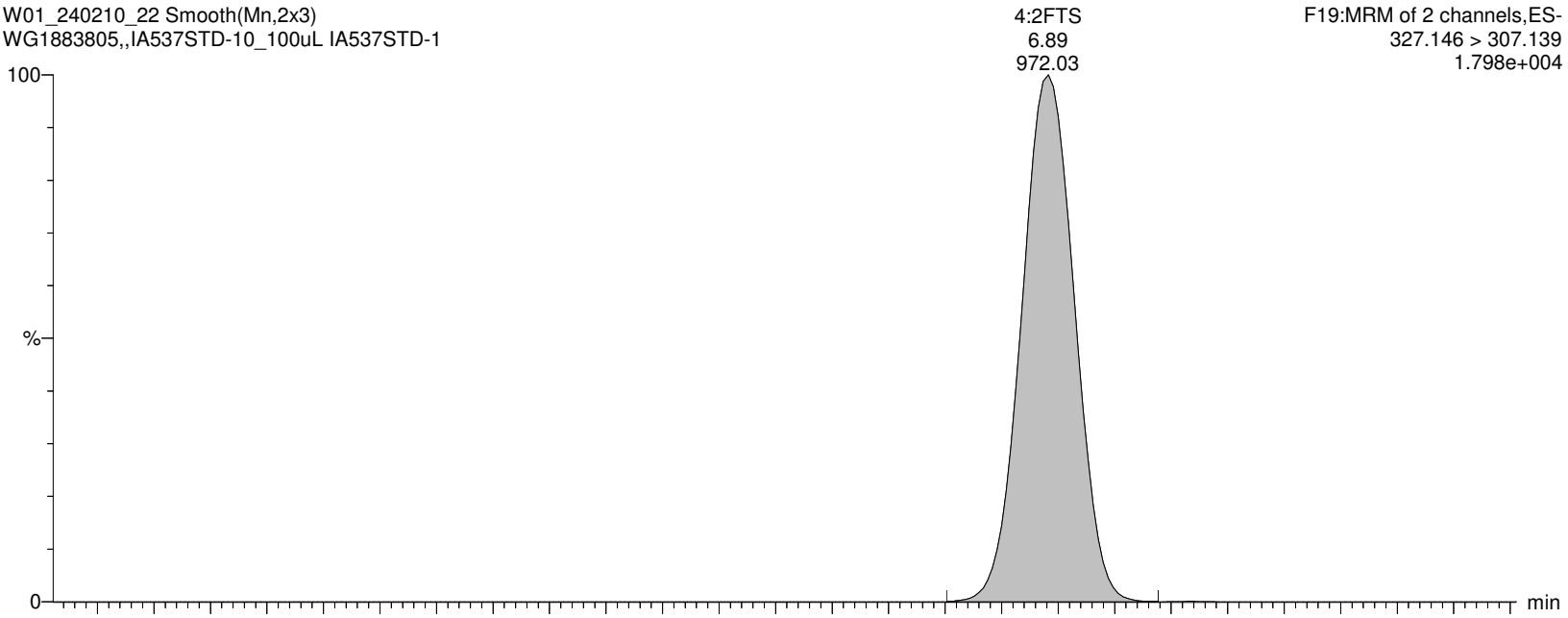

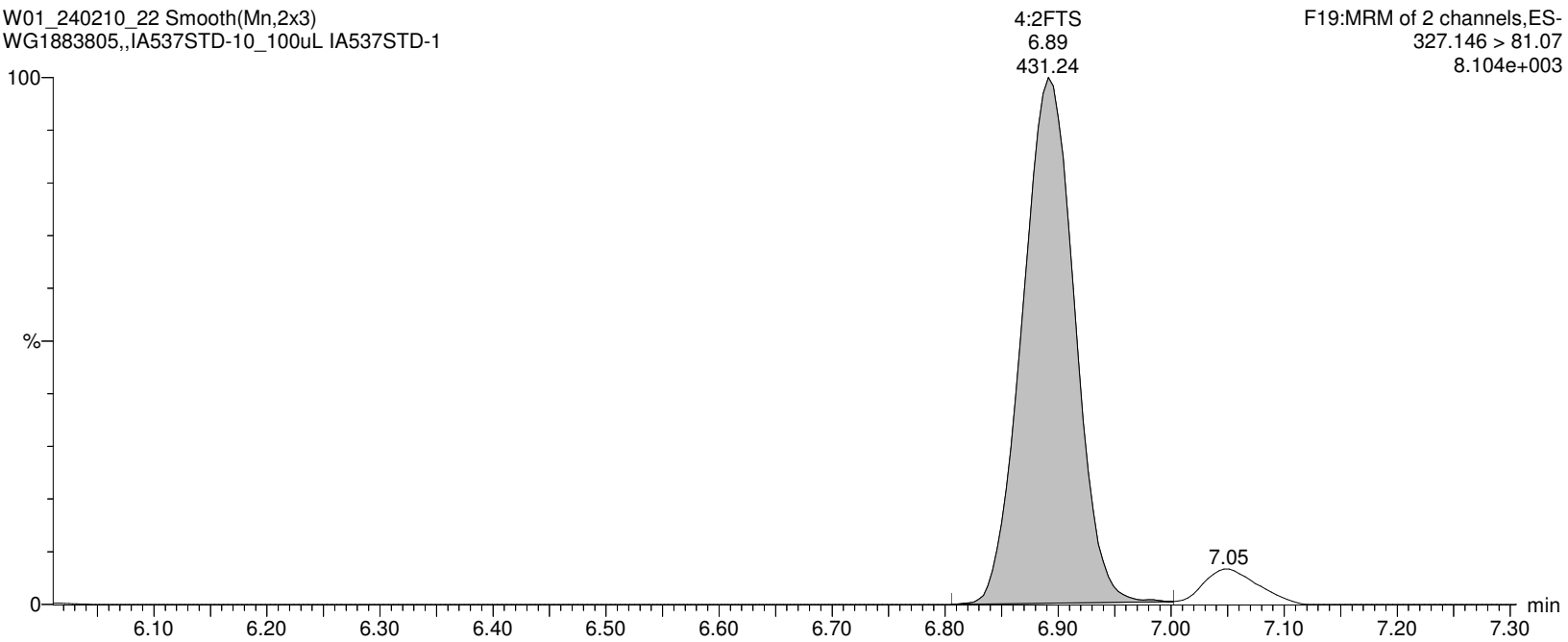

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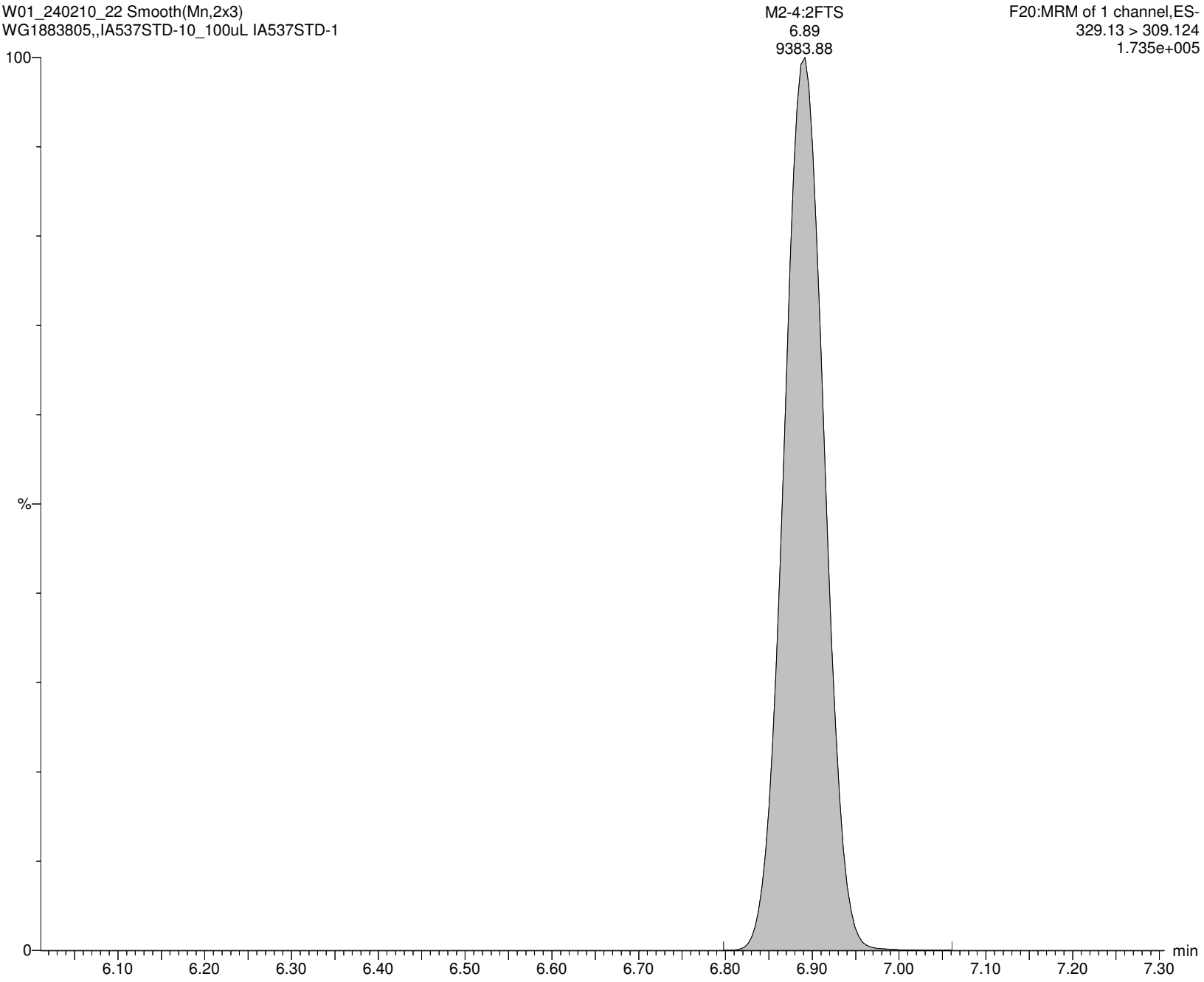

all concentration units in (ng/mL)

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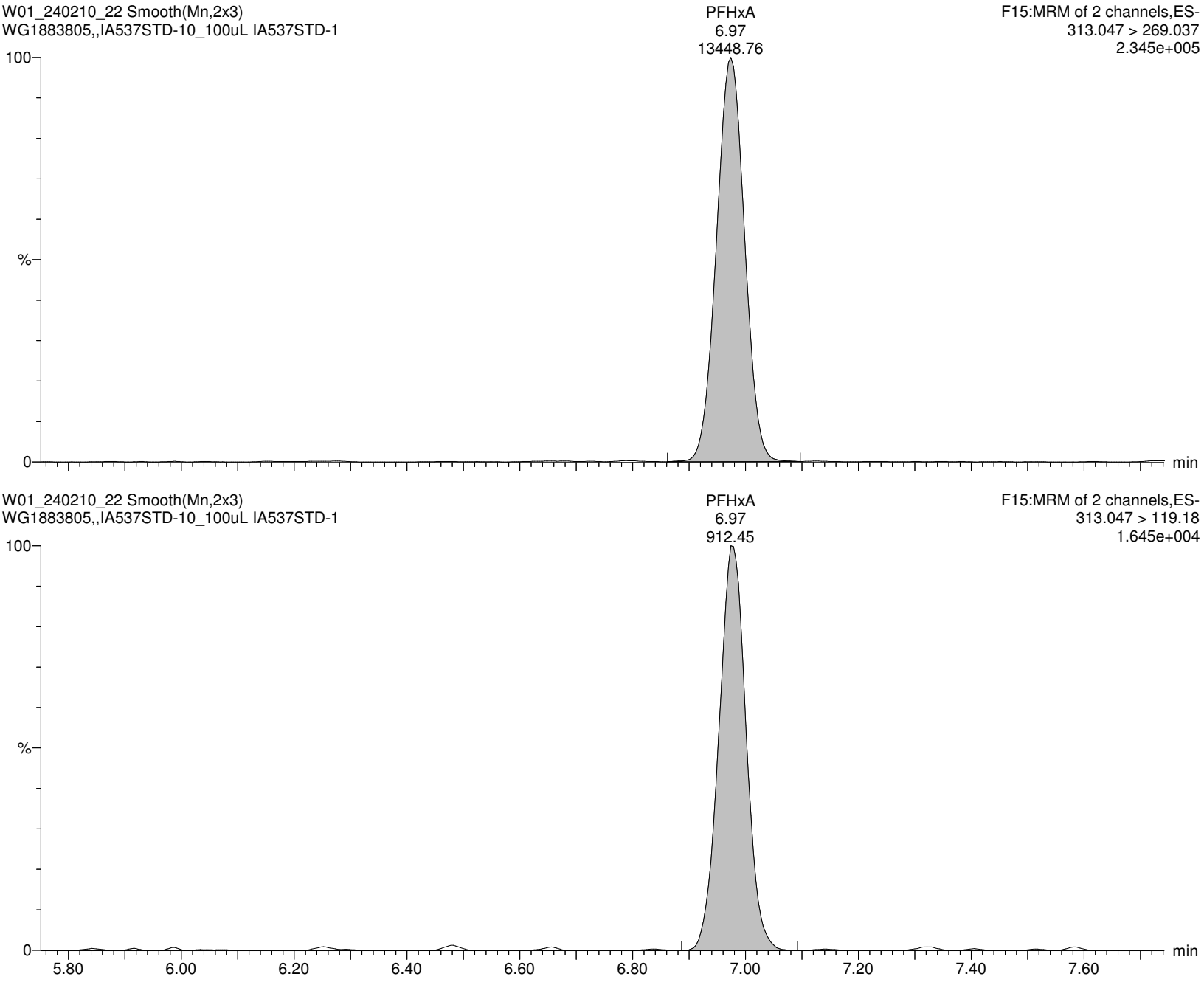

all concentration units in (ng/mL)

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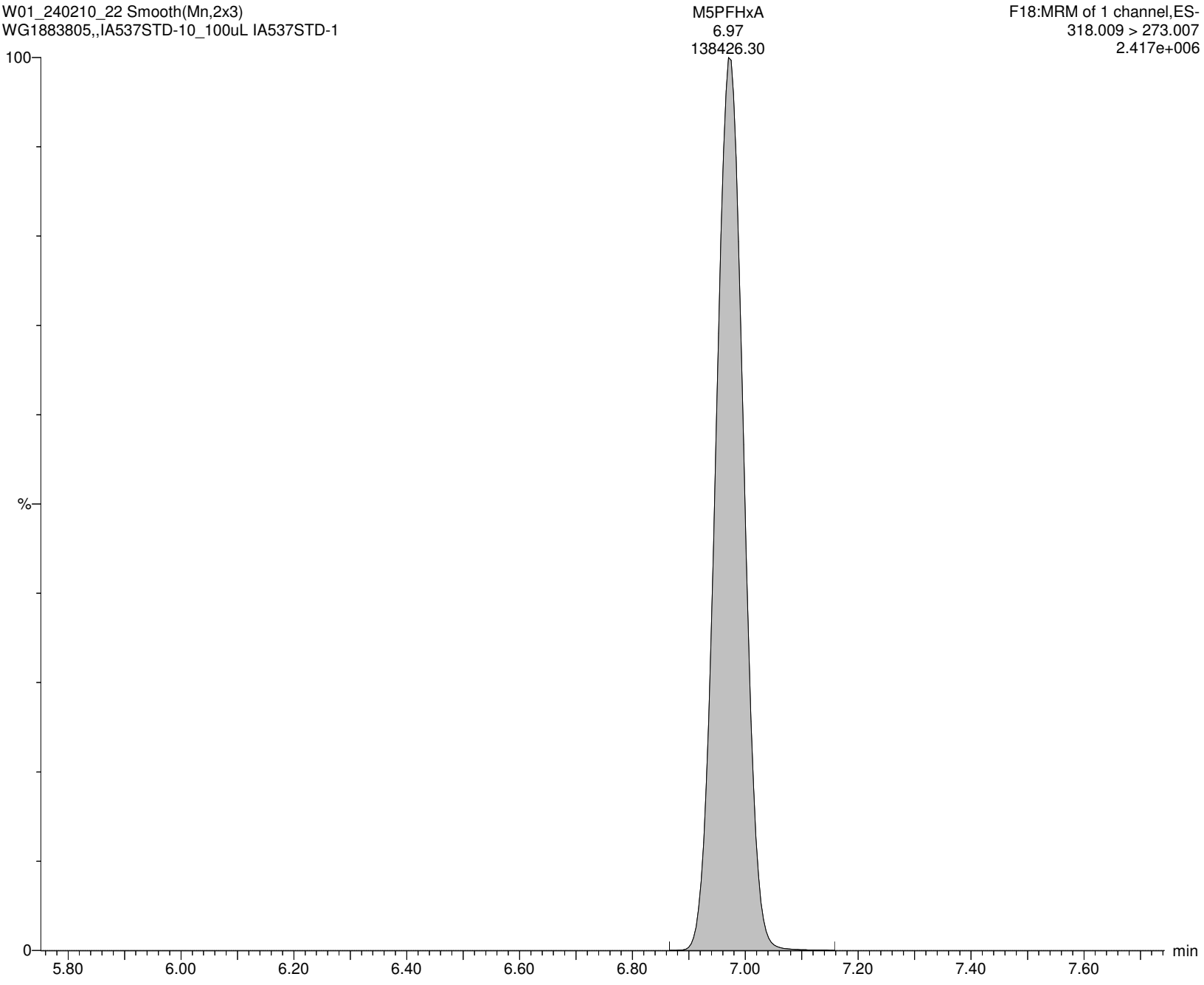

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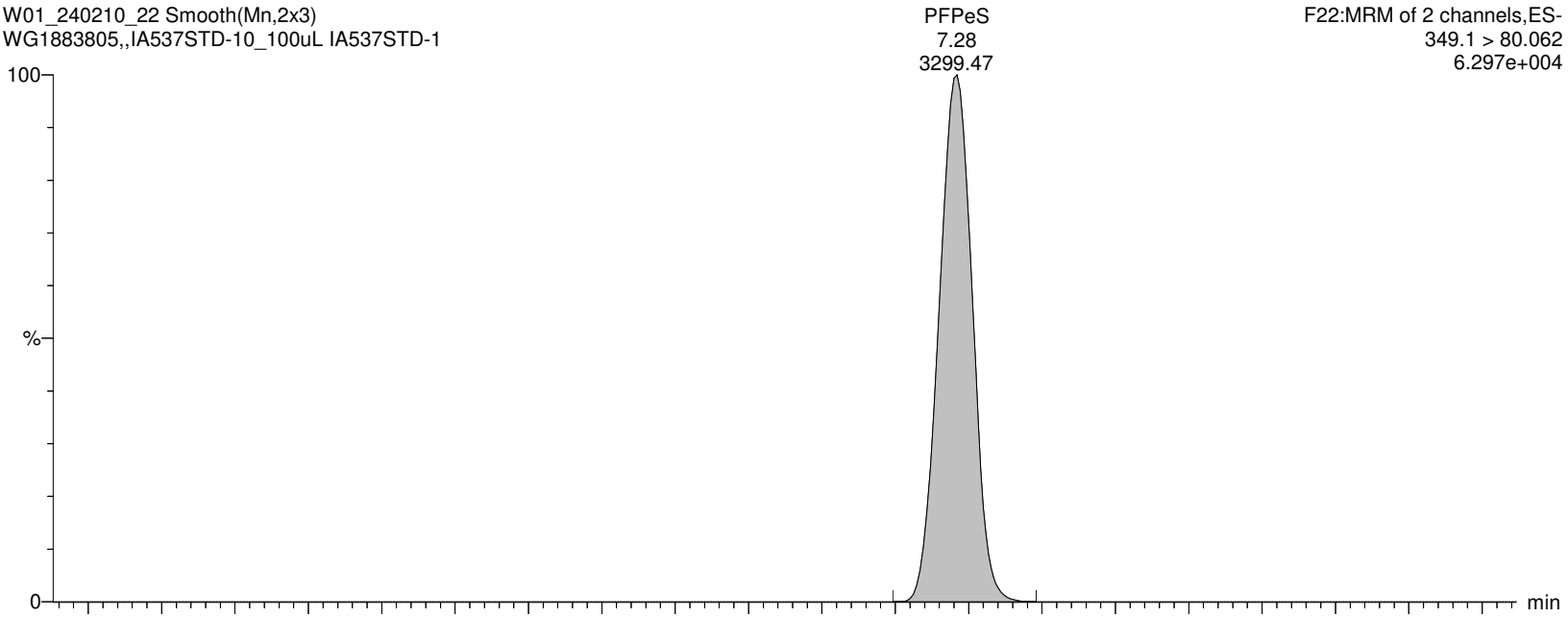

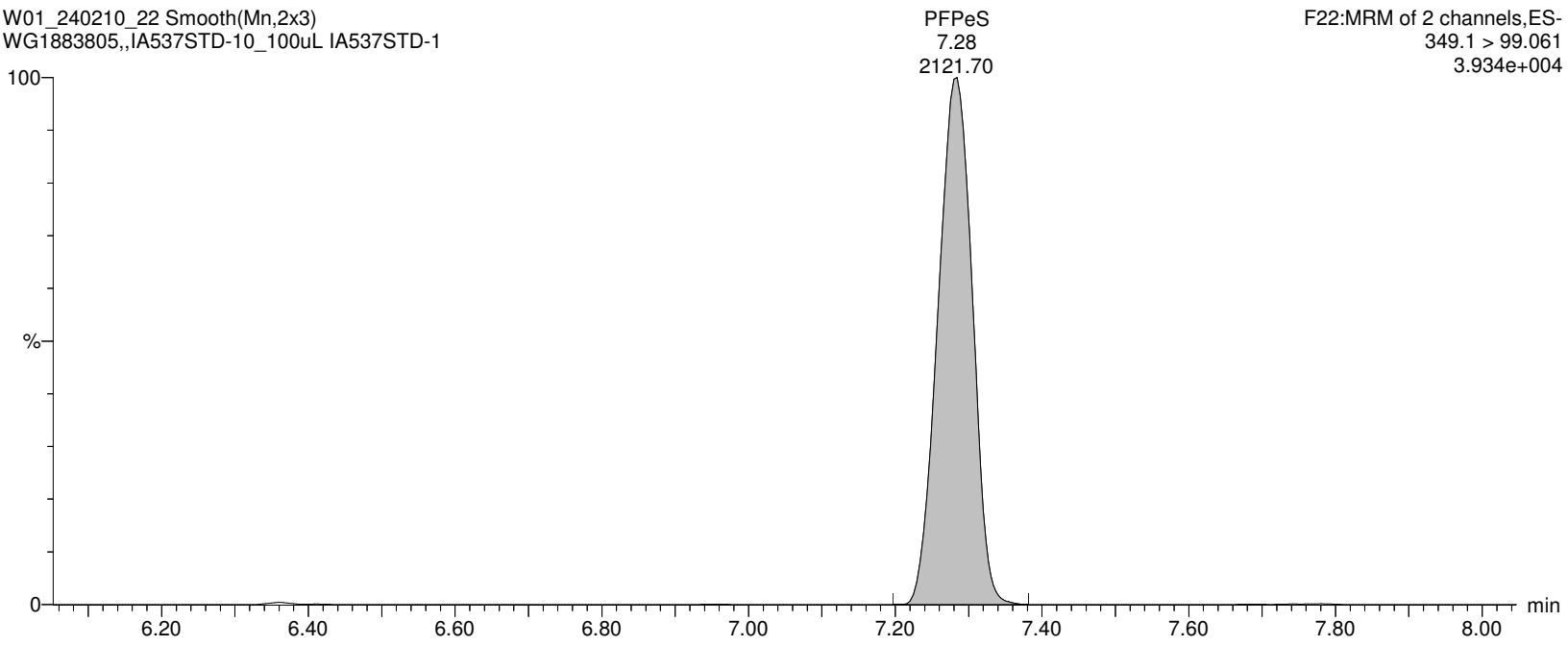

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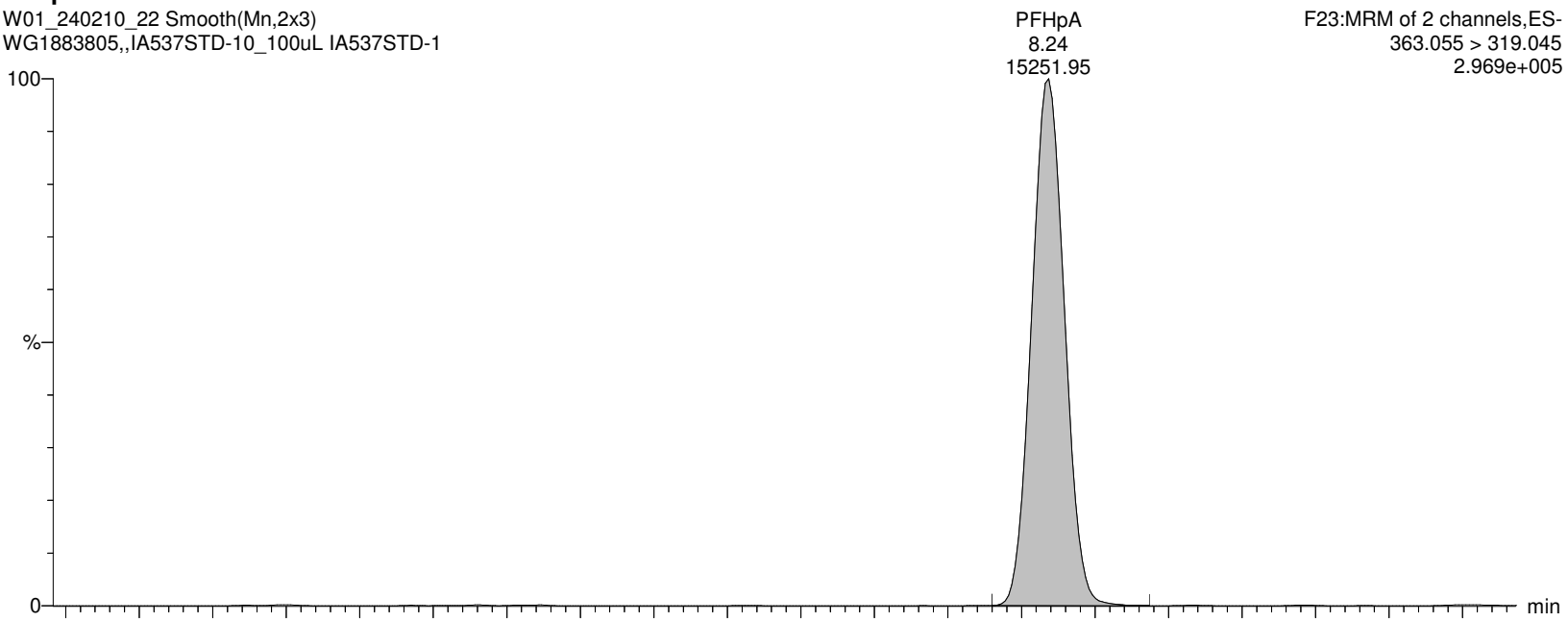

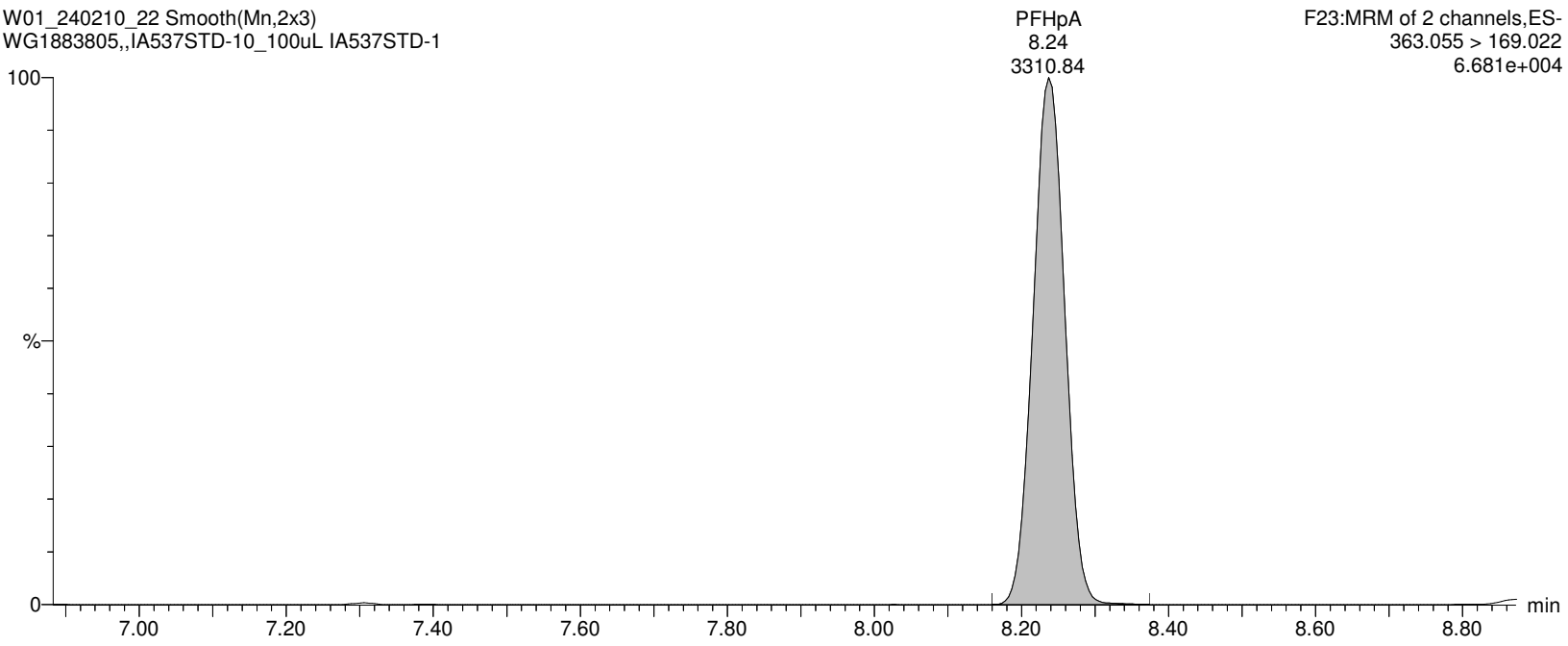

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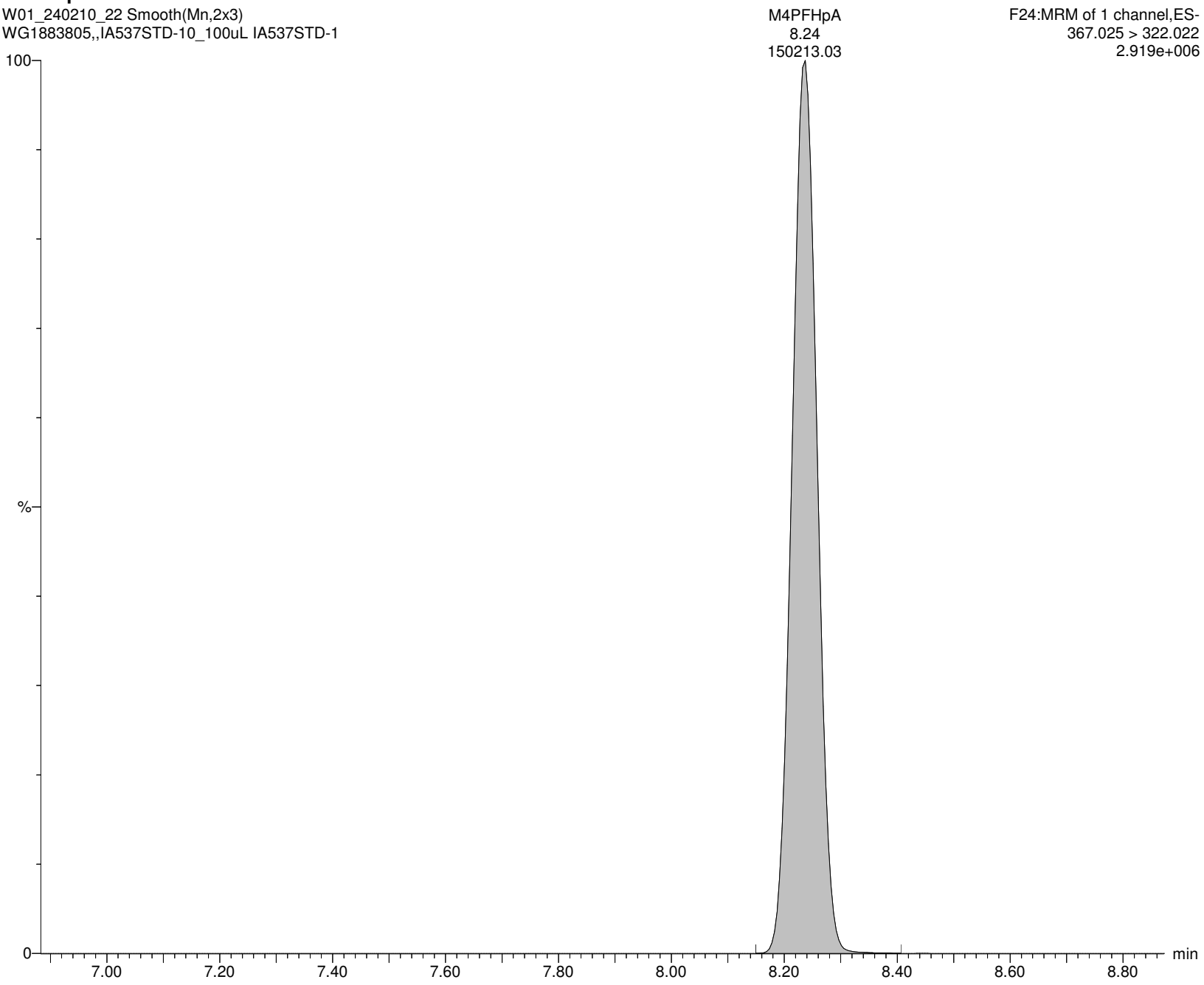

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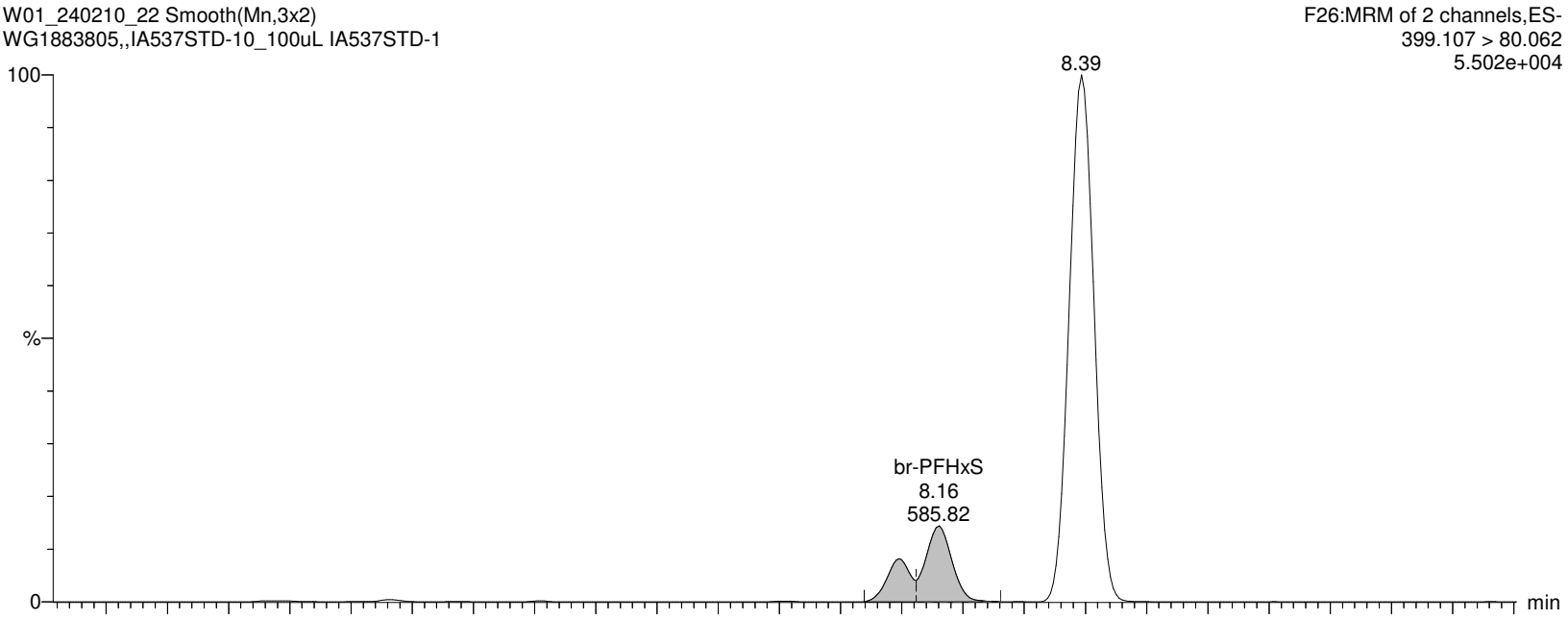

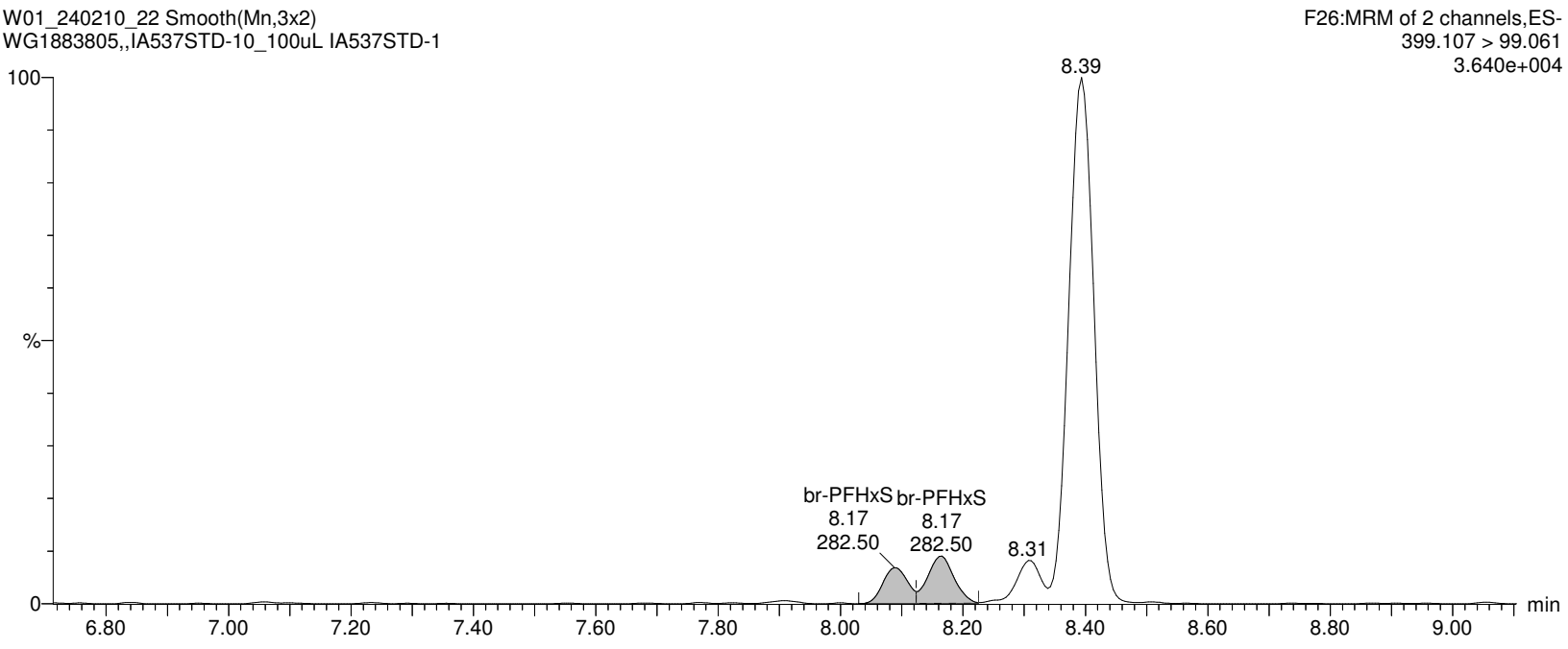

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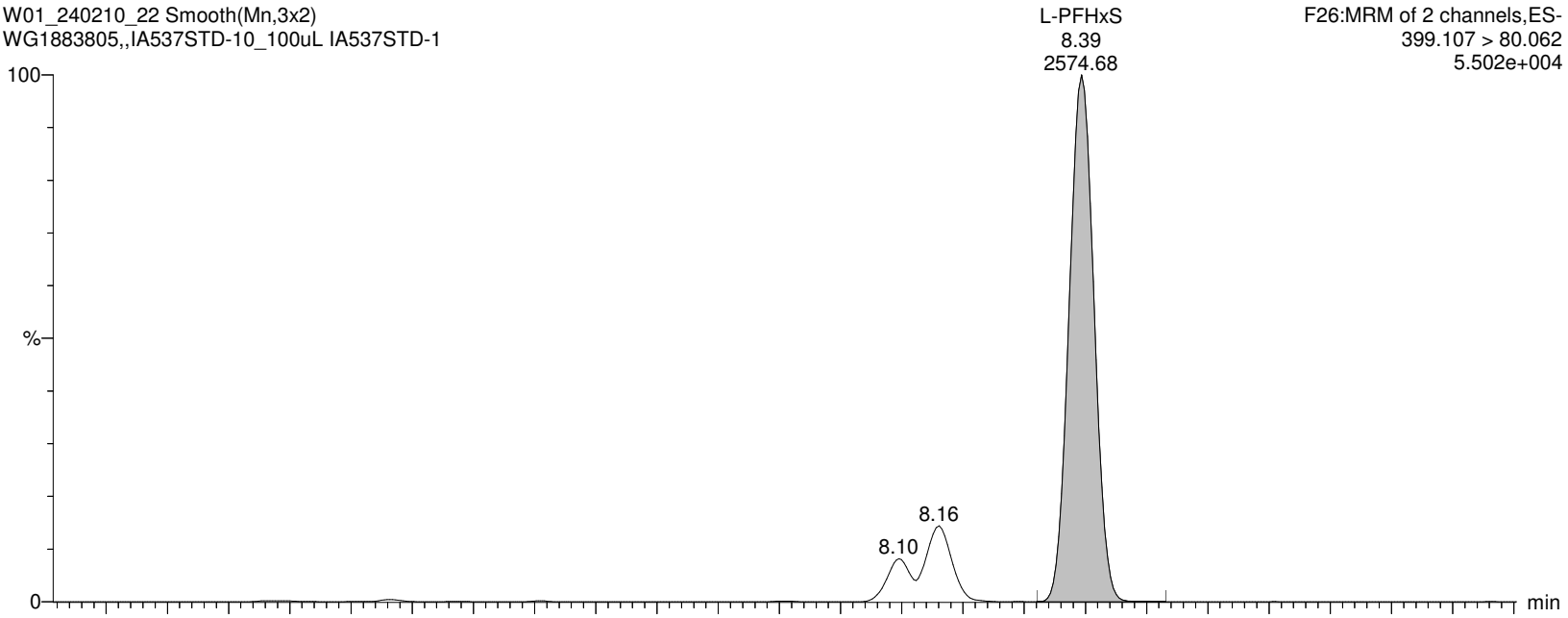
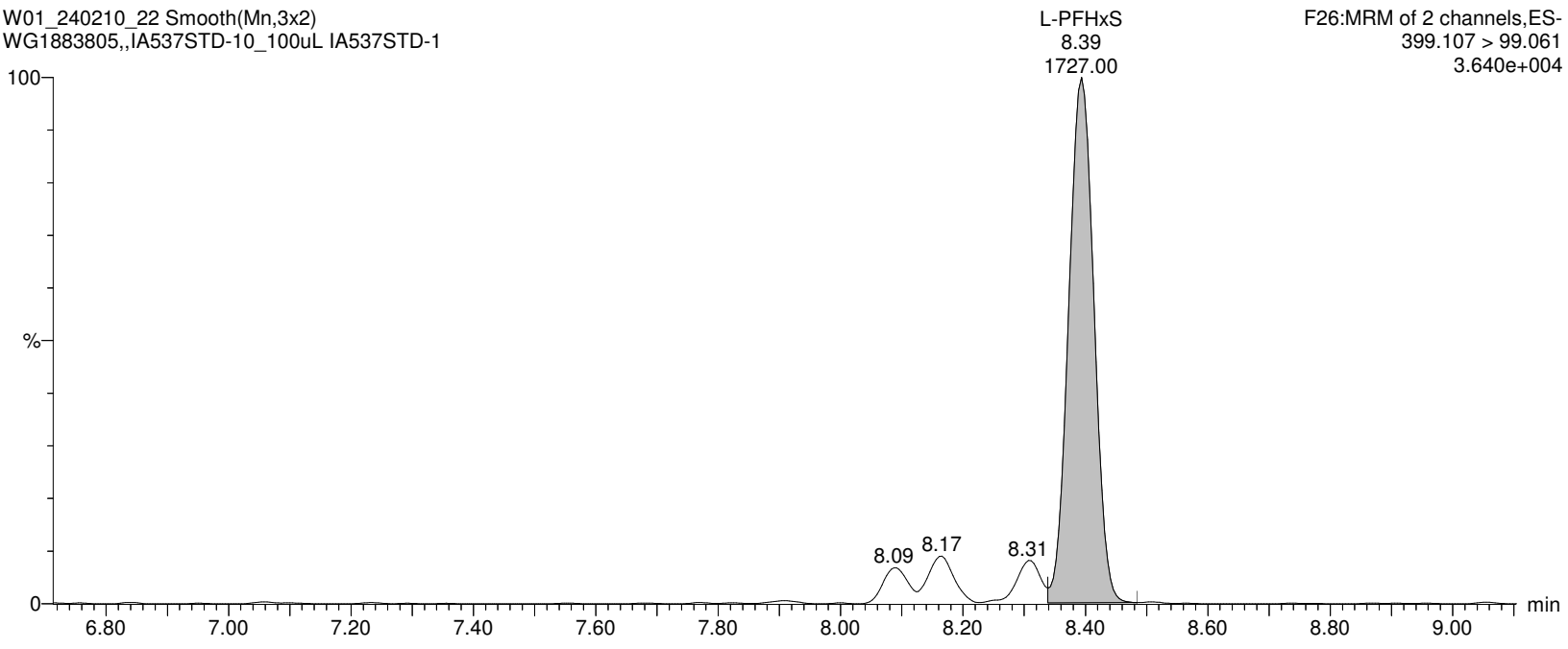
L-PFHxS





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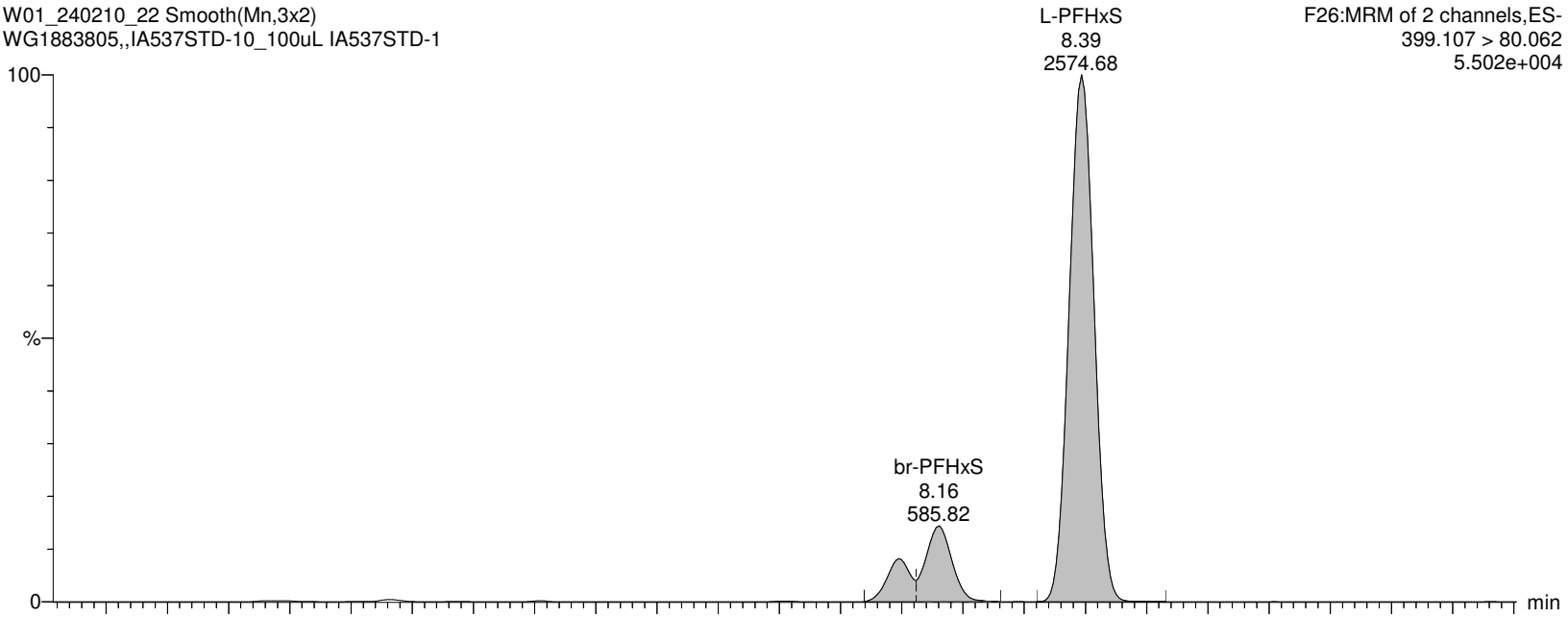
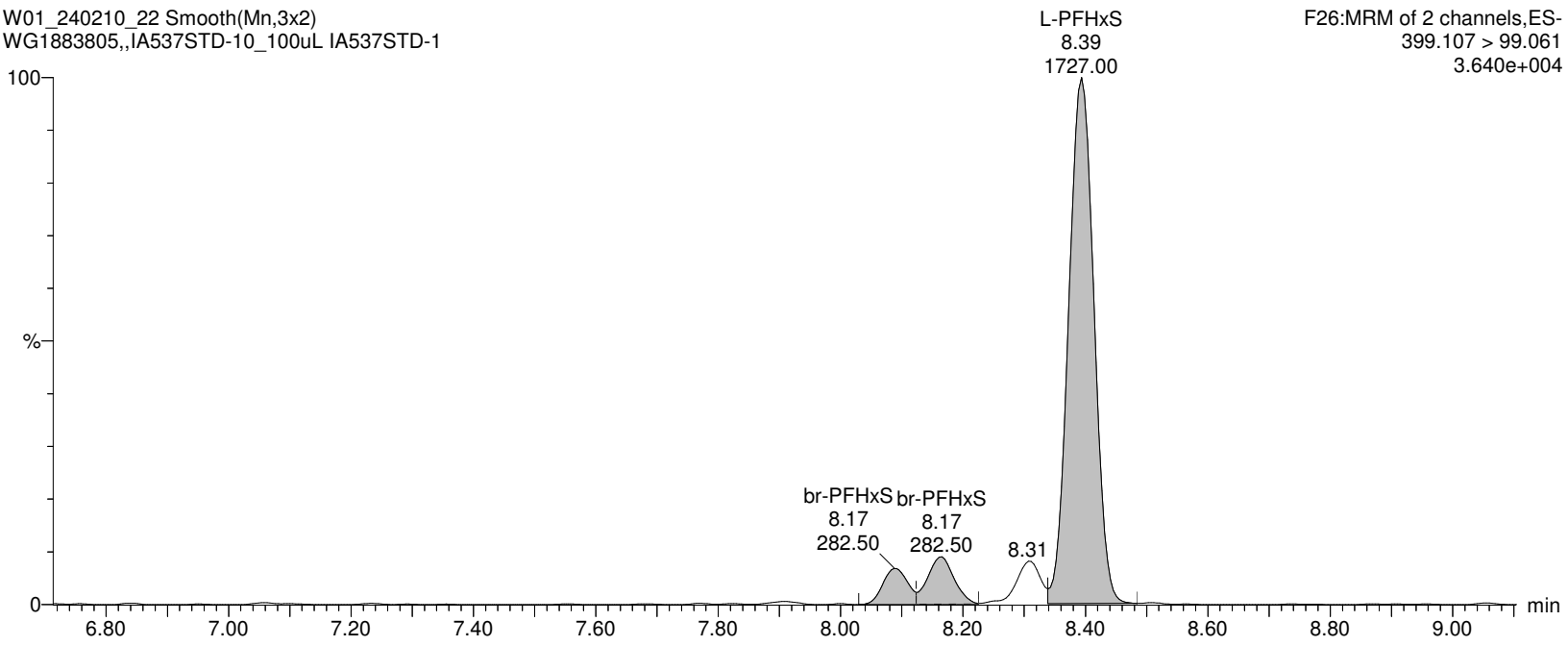
PFHxS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:10 Eastern Standard Time

Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
Description: WG1883805,,IA537STD-10_100uL
User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
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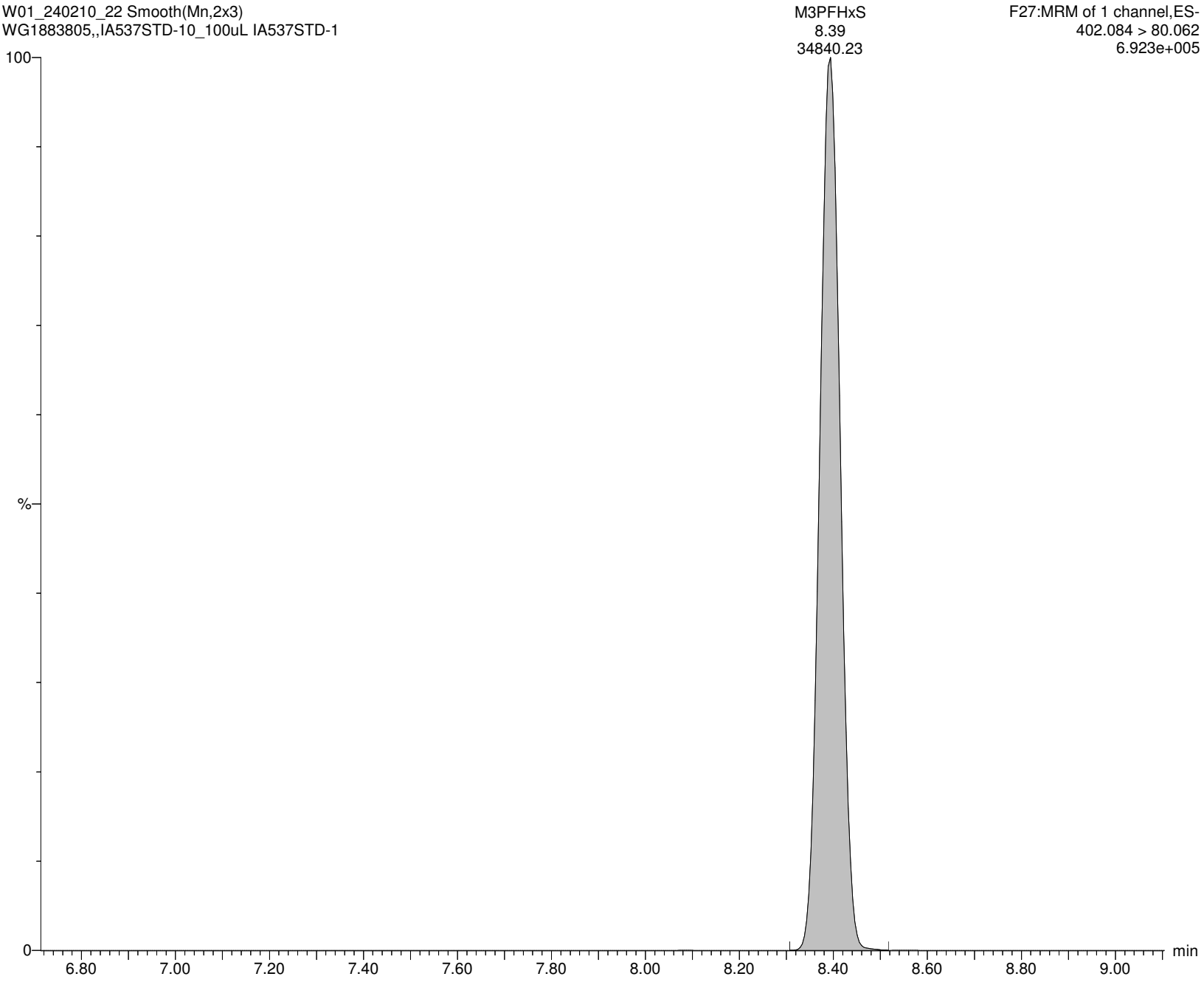

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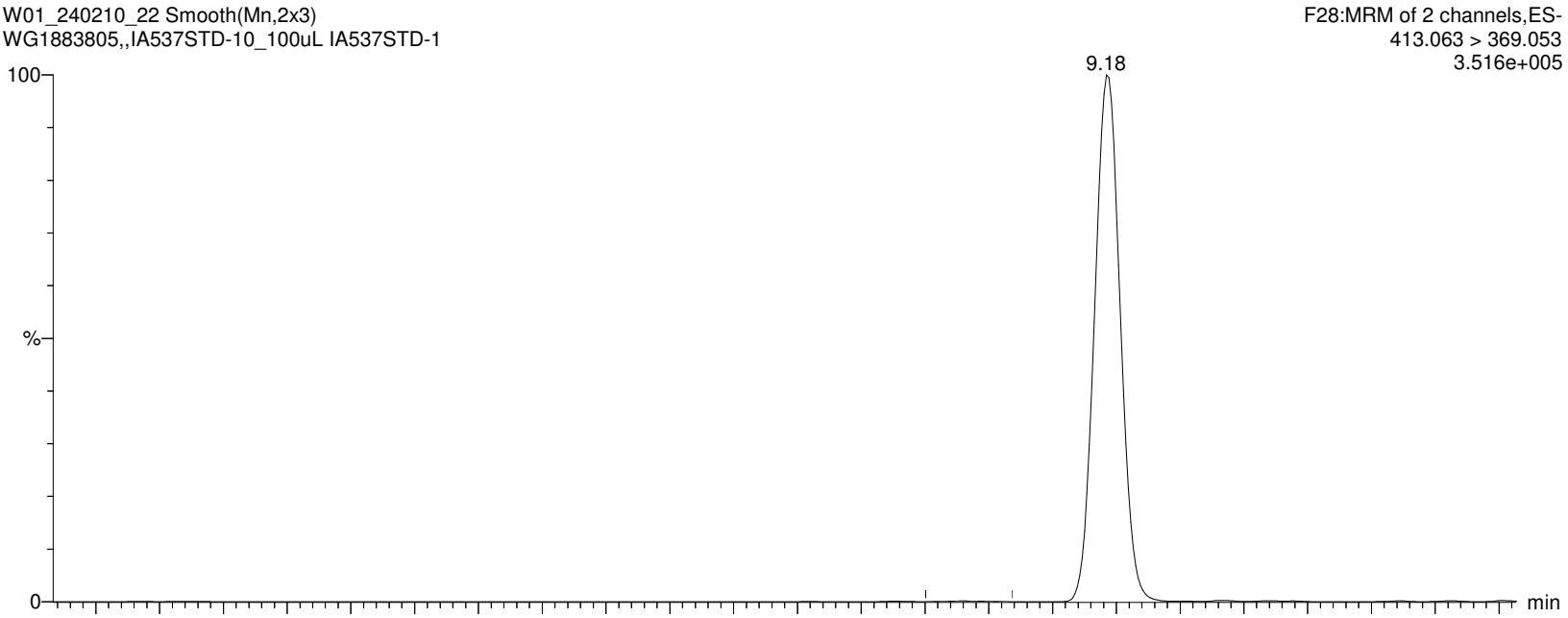

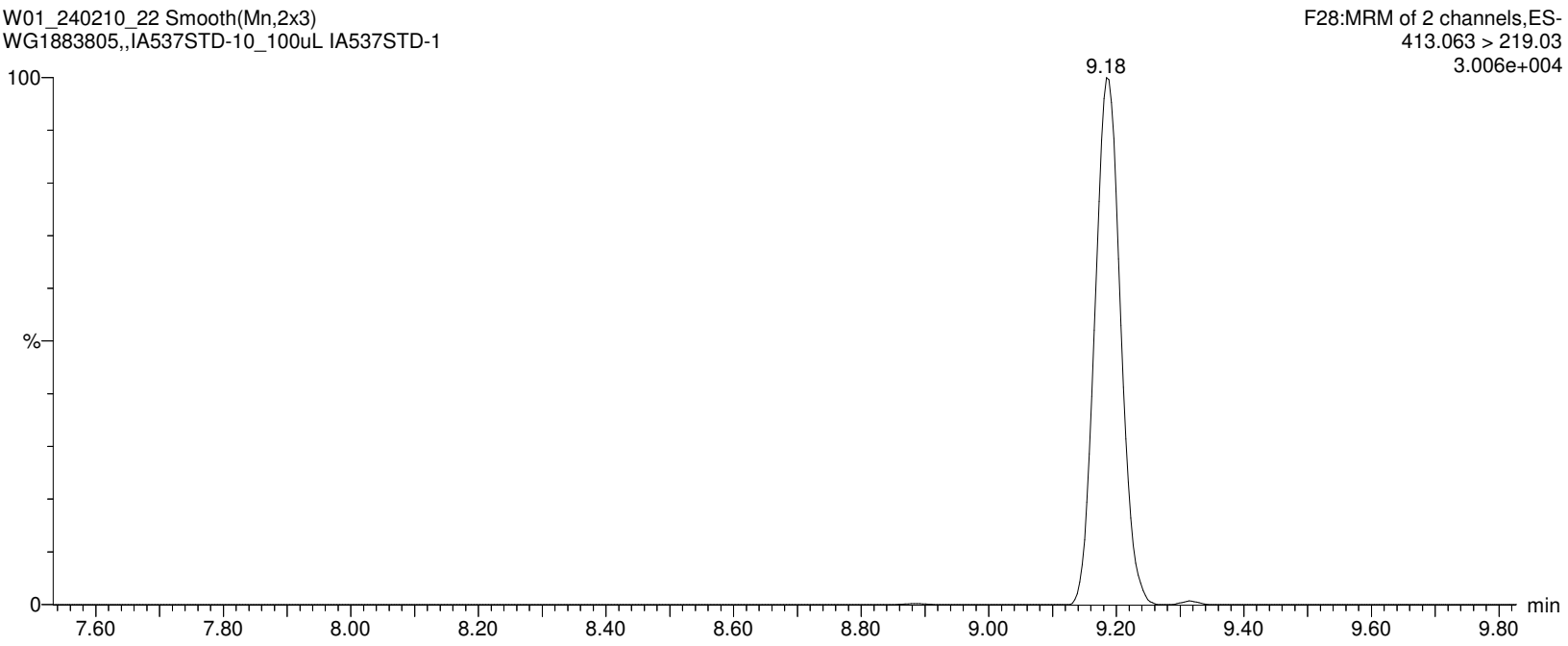

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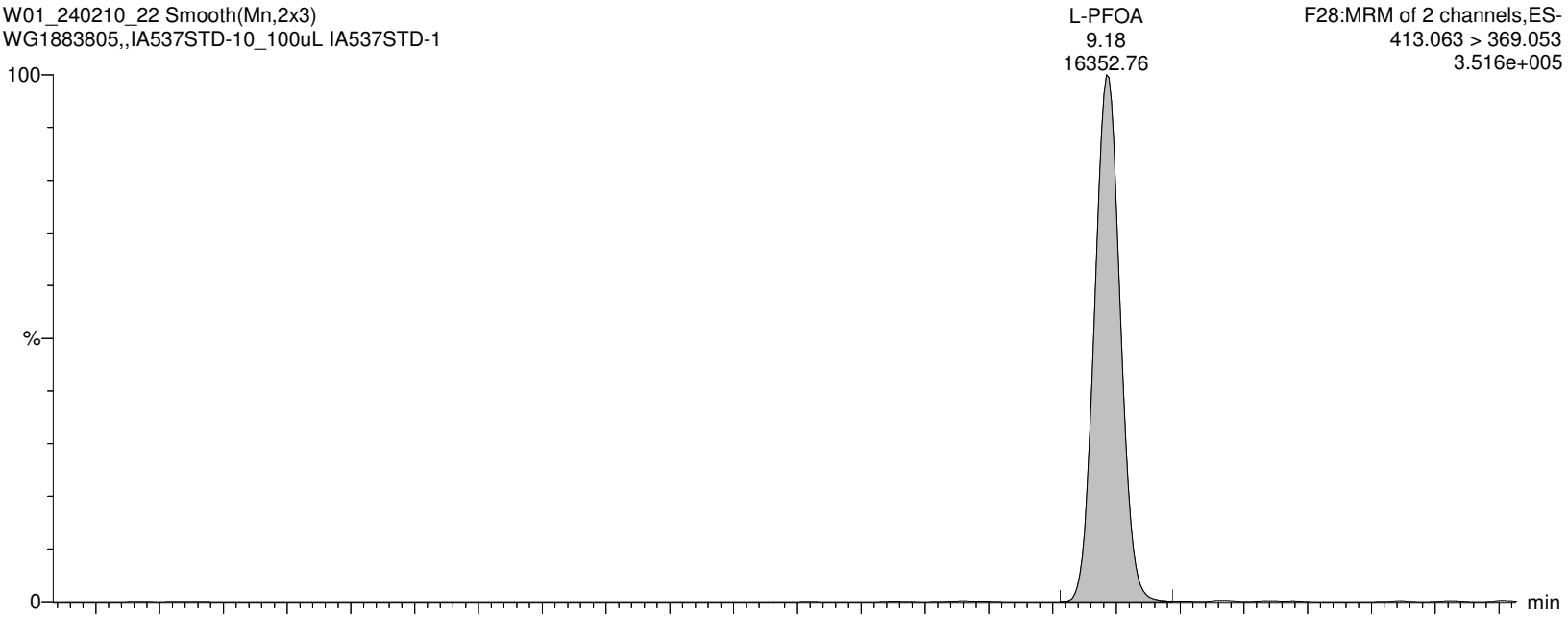

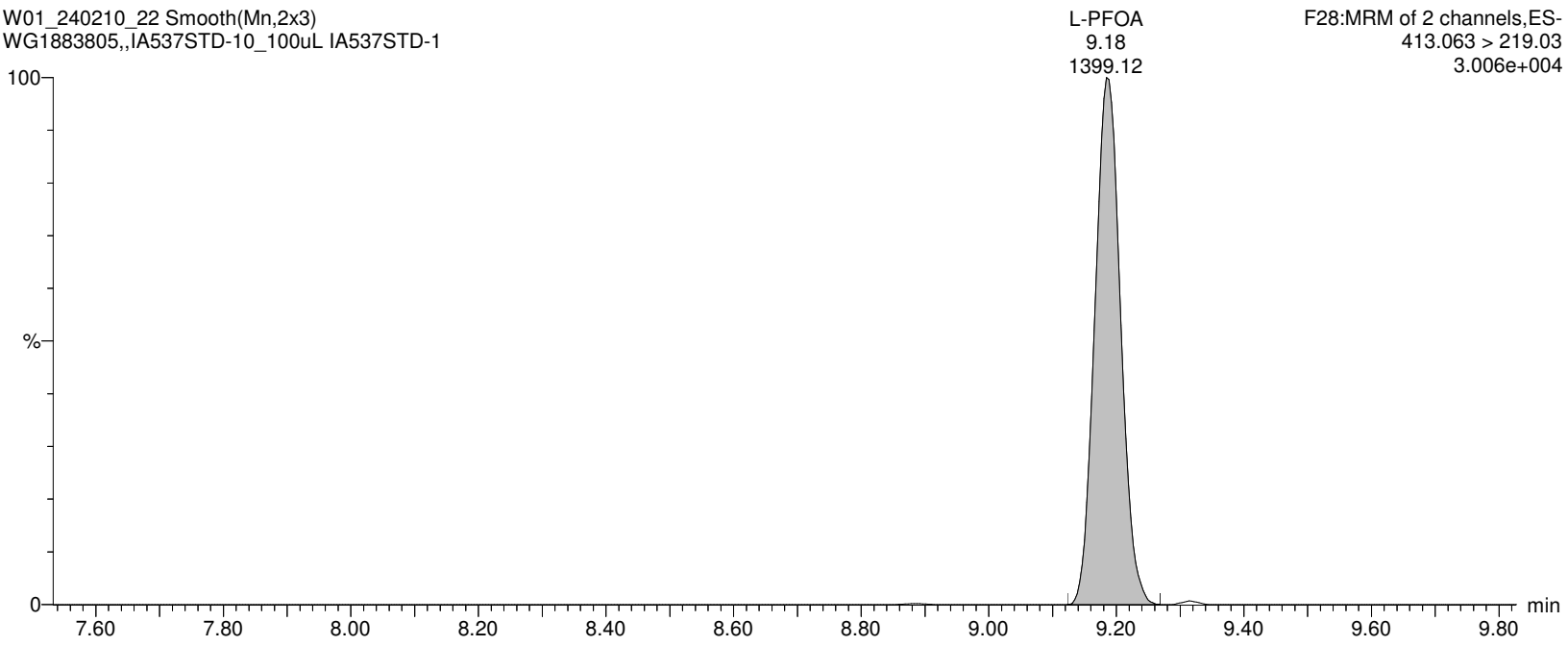

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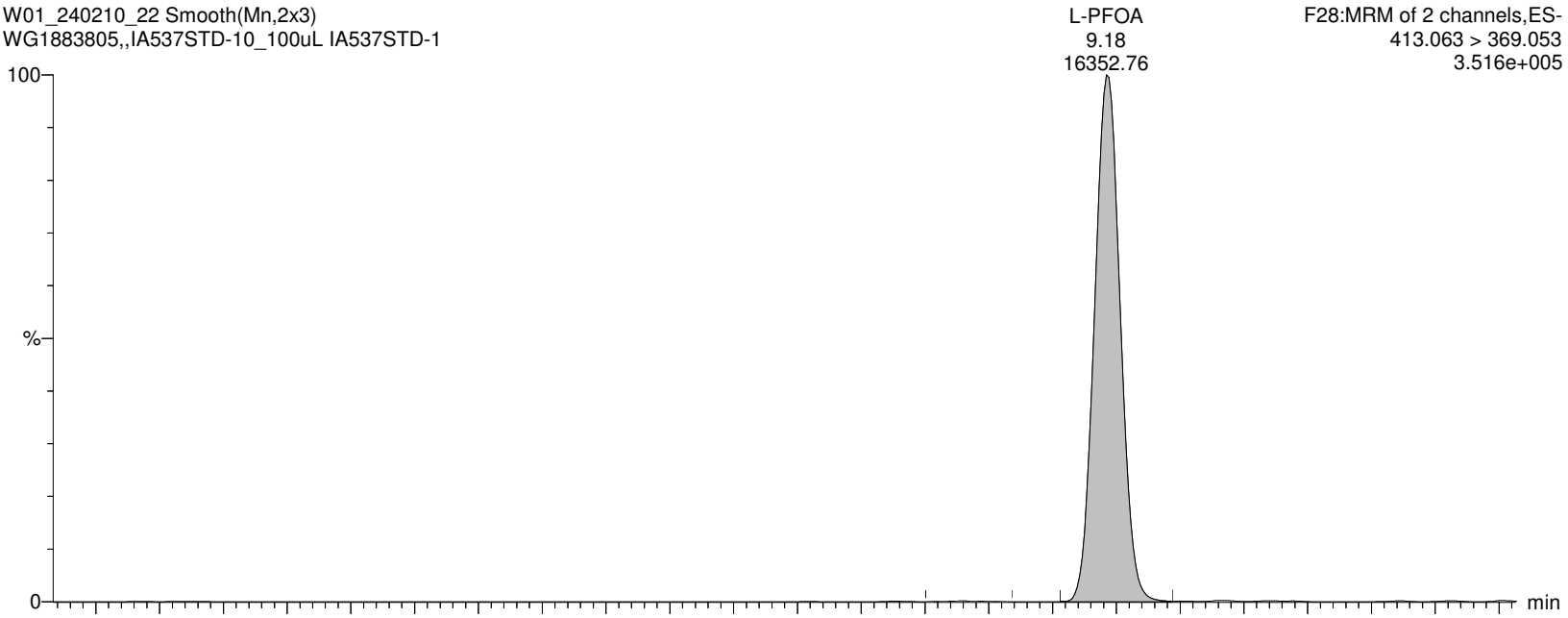

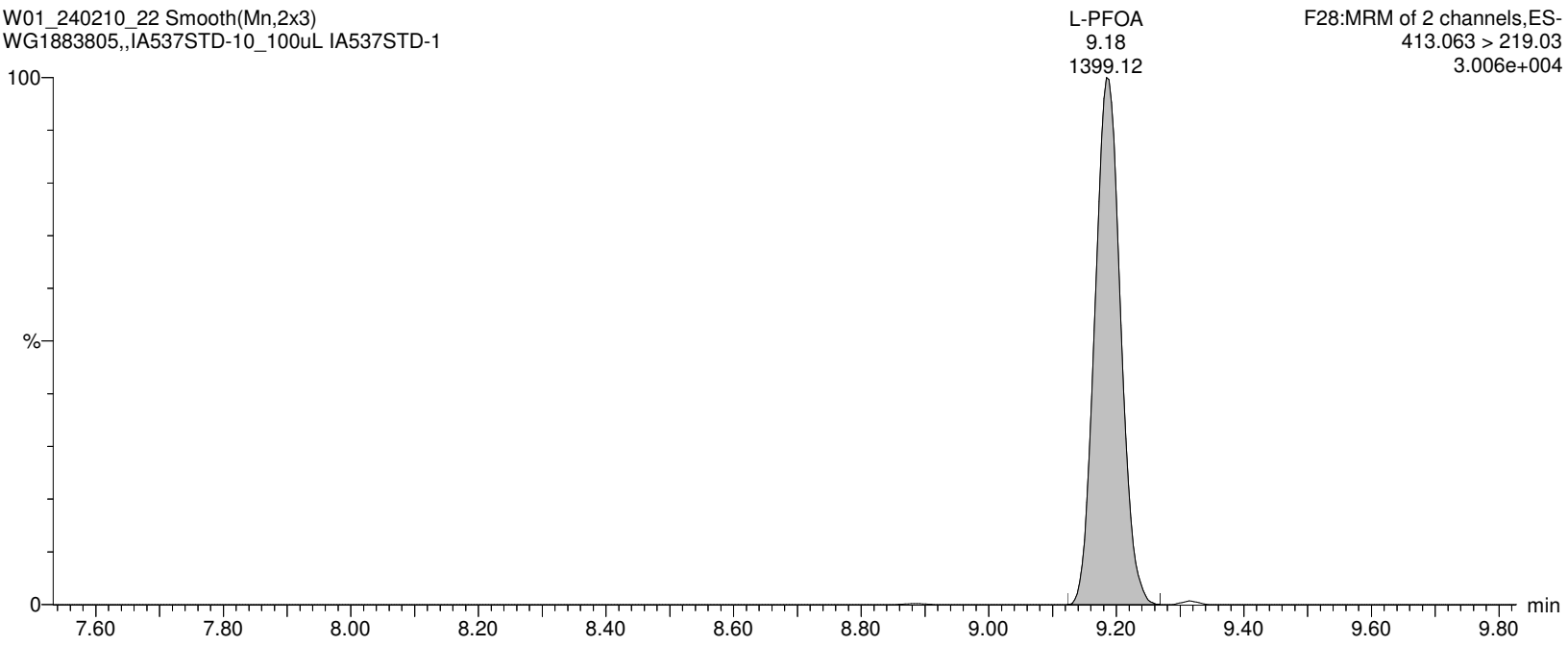

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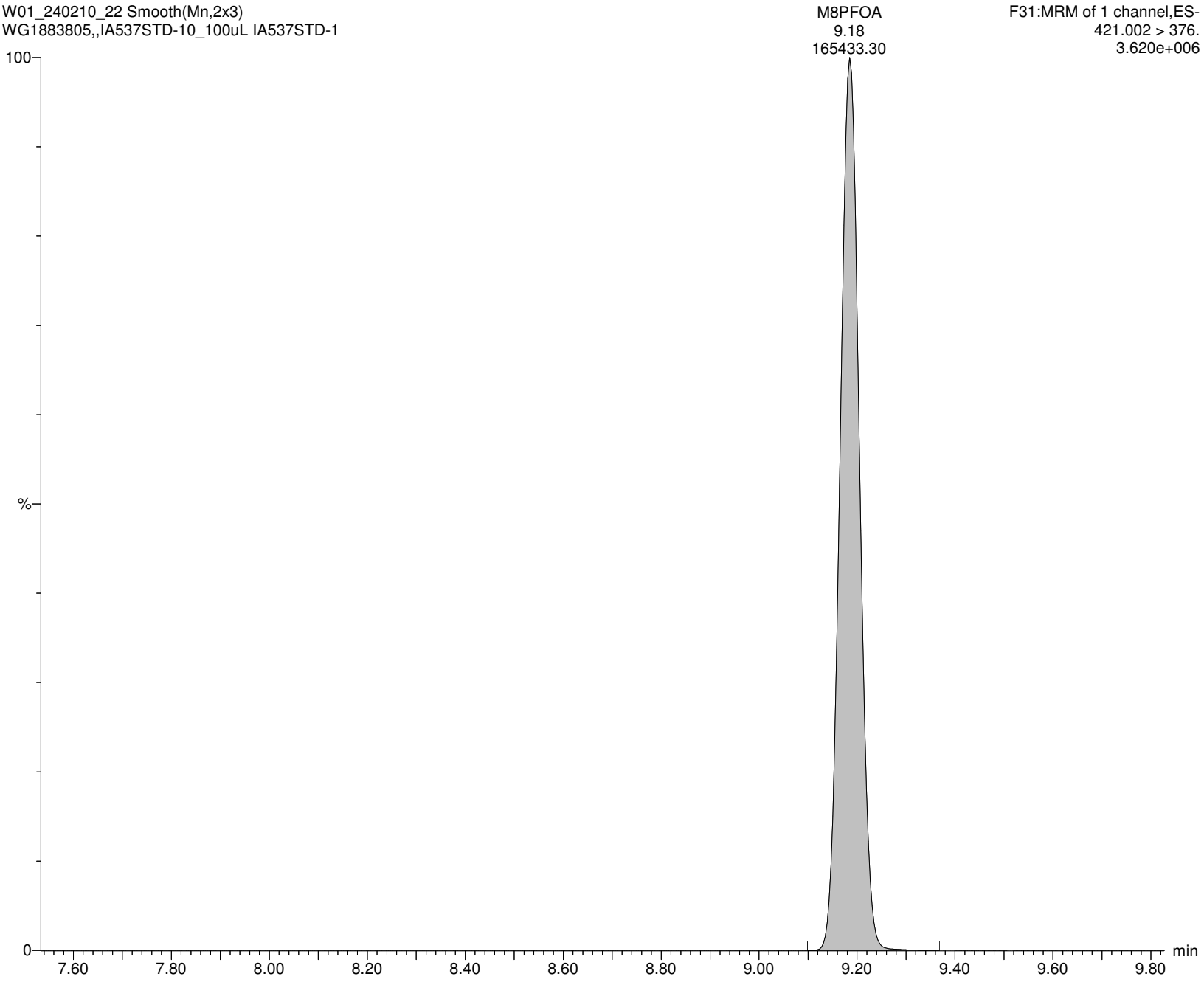

all concentration units in (ng/mL)

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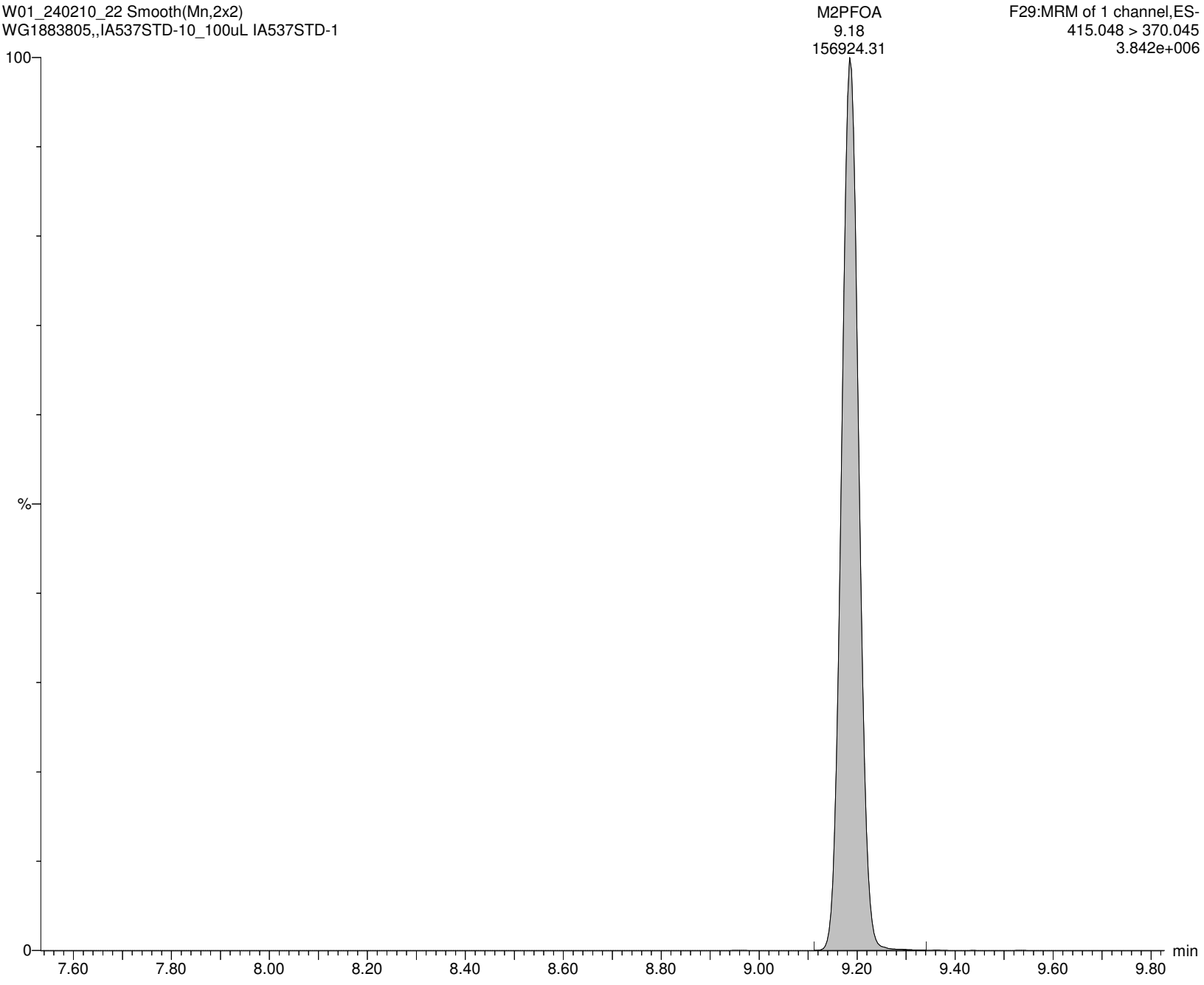

all concentration units in (ng/mL)

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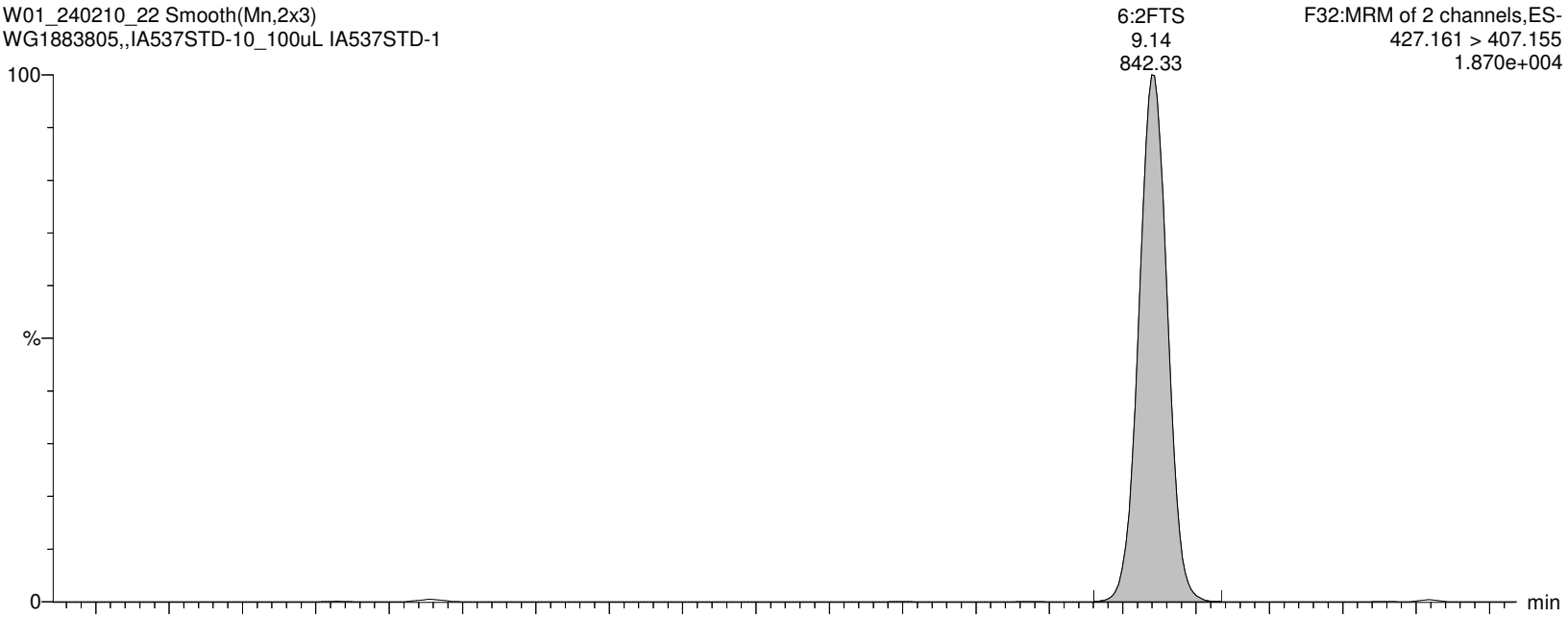

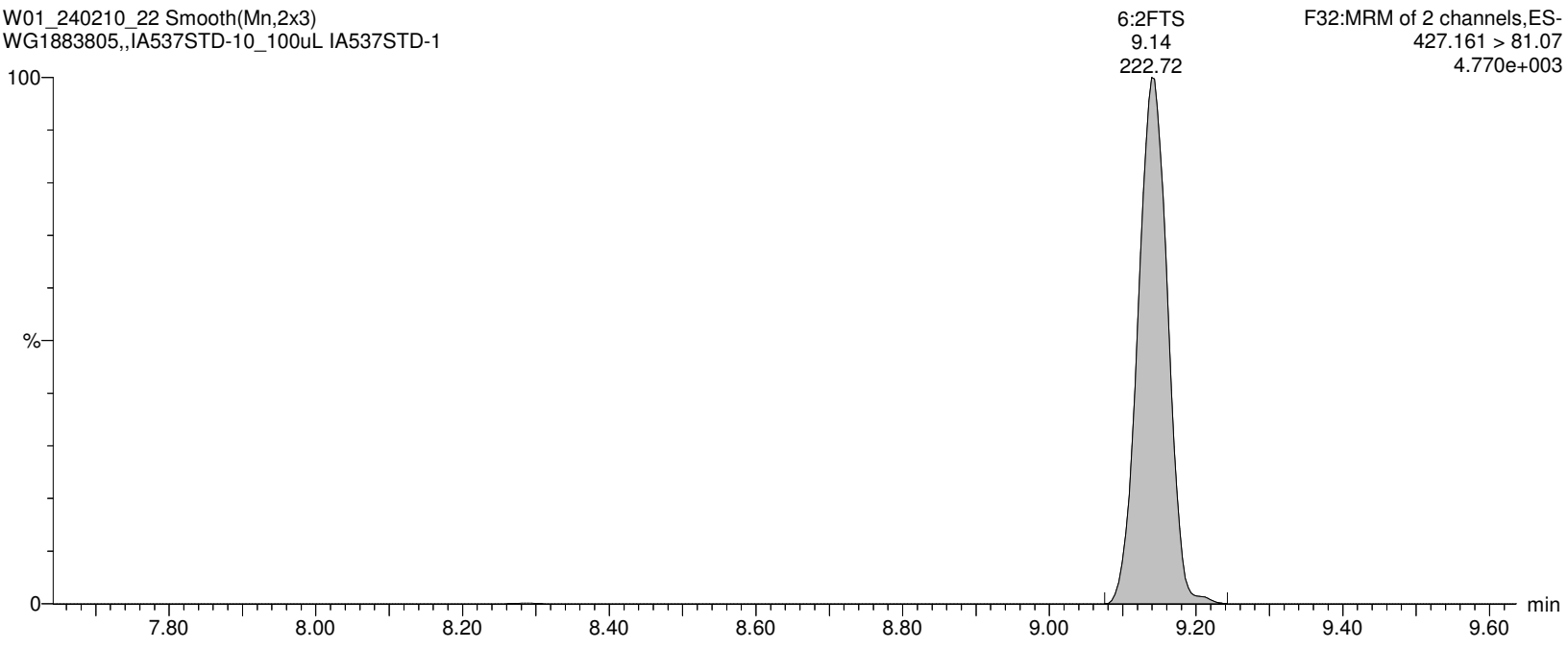

all concentration units in (ng/mL)

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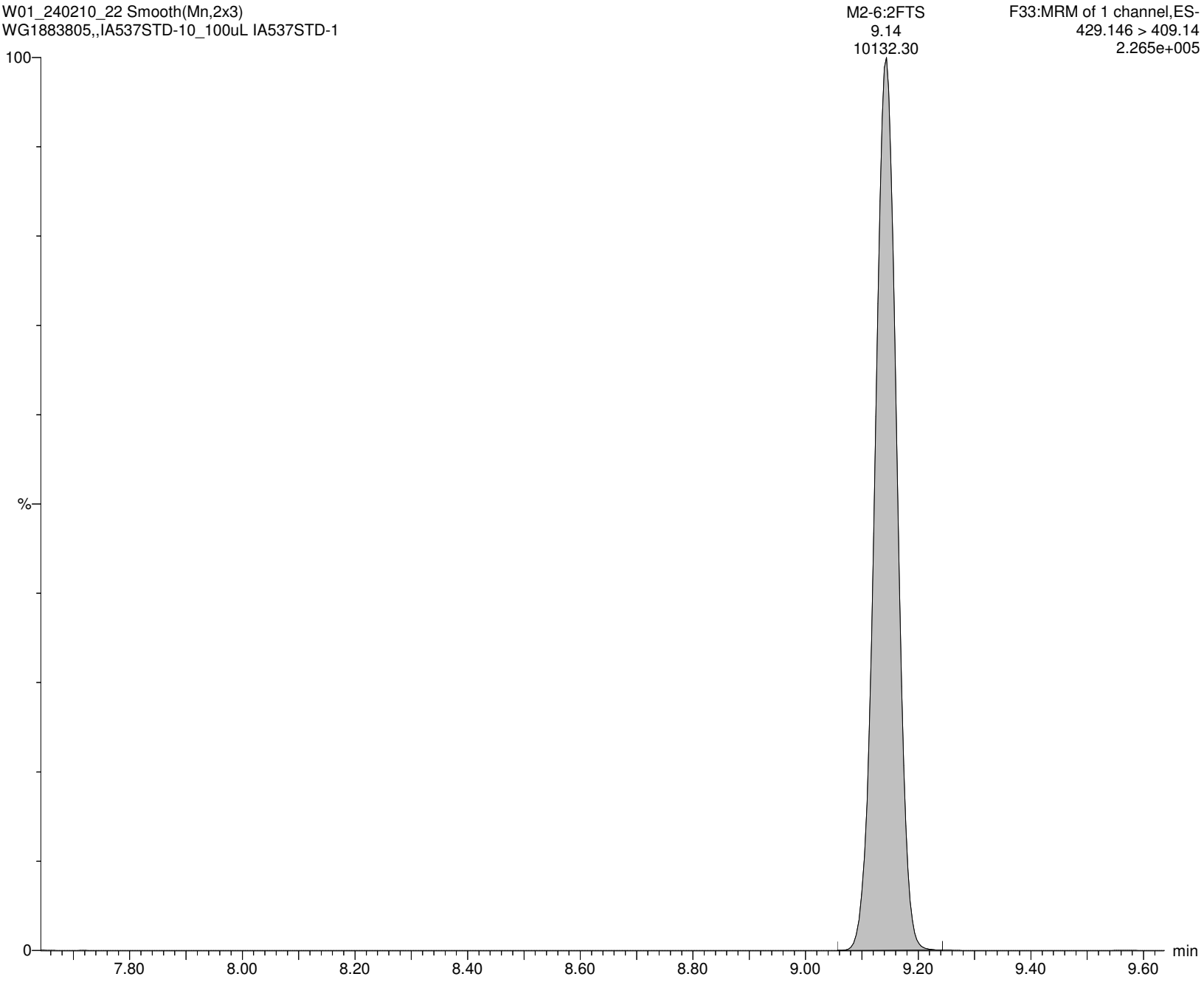

all concentration units in (ng/mL)

Alpha Analytical Inc.
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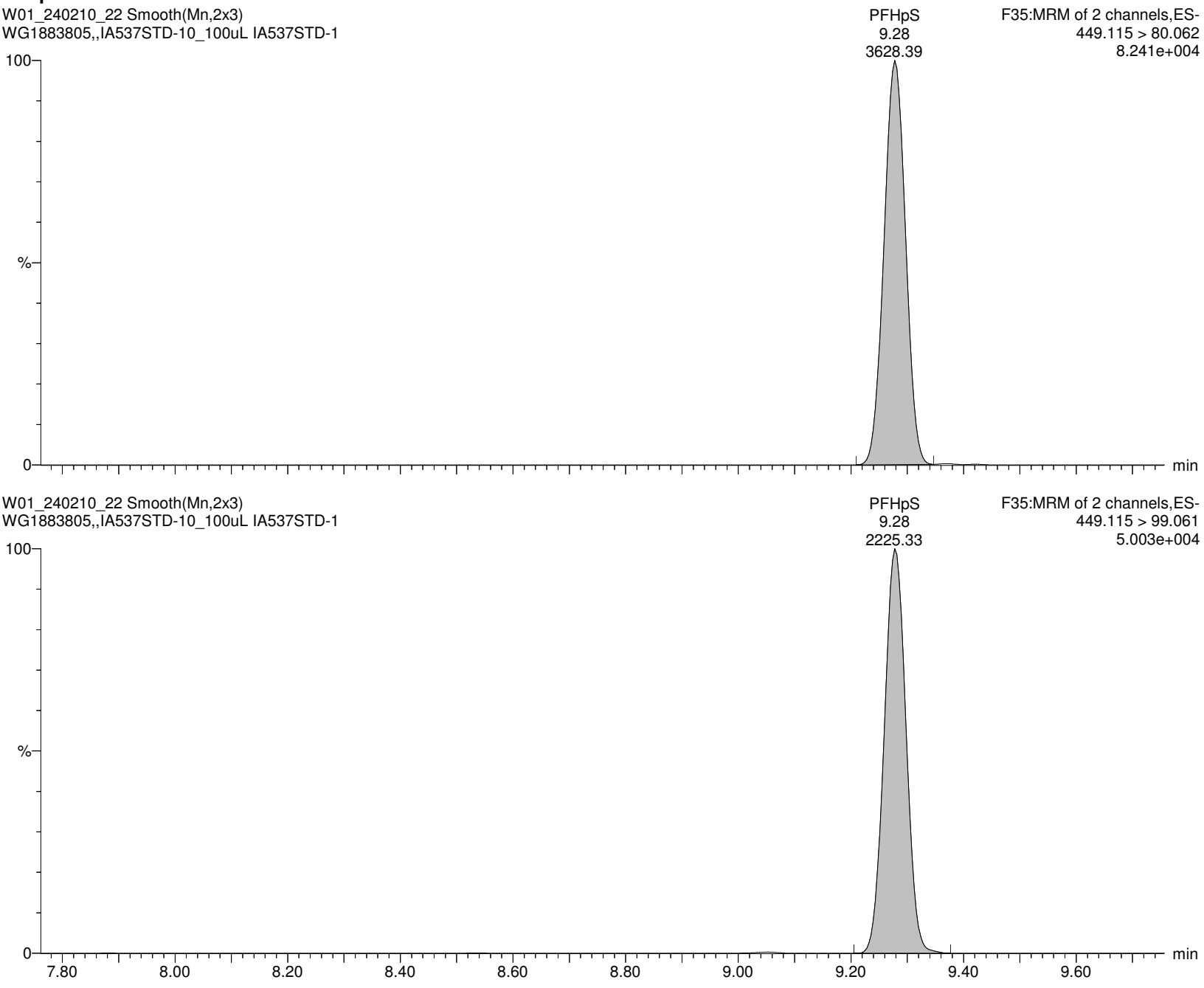
PFHpS



all concentration units in (ng/mL)

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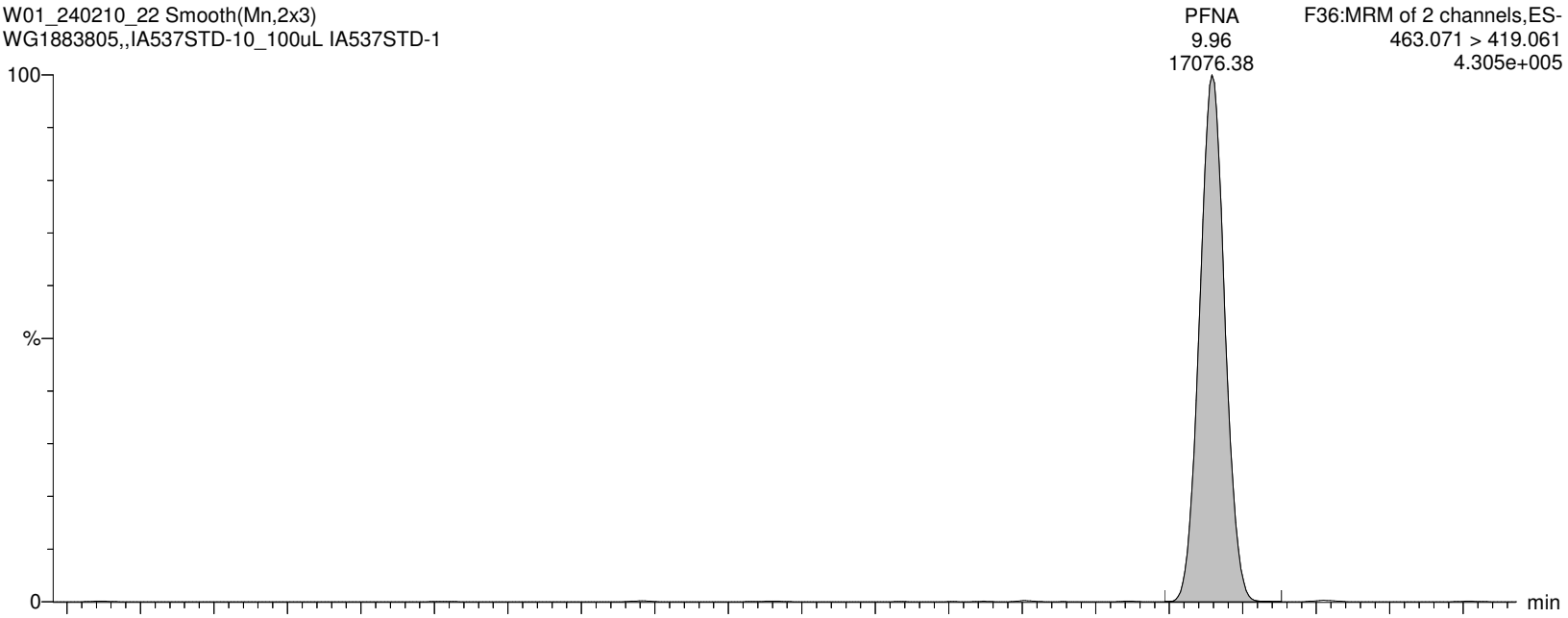

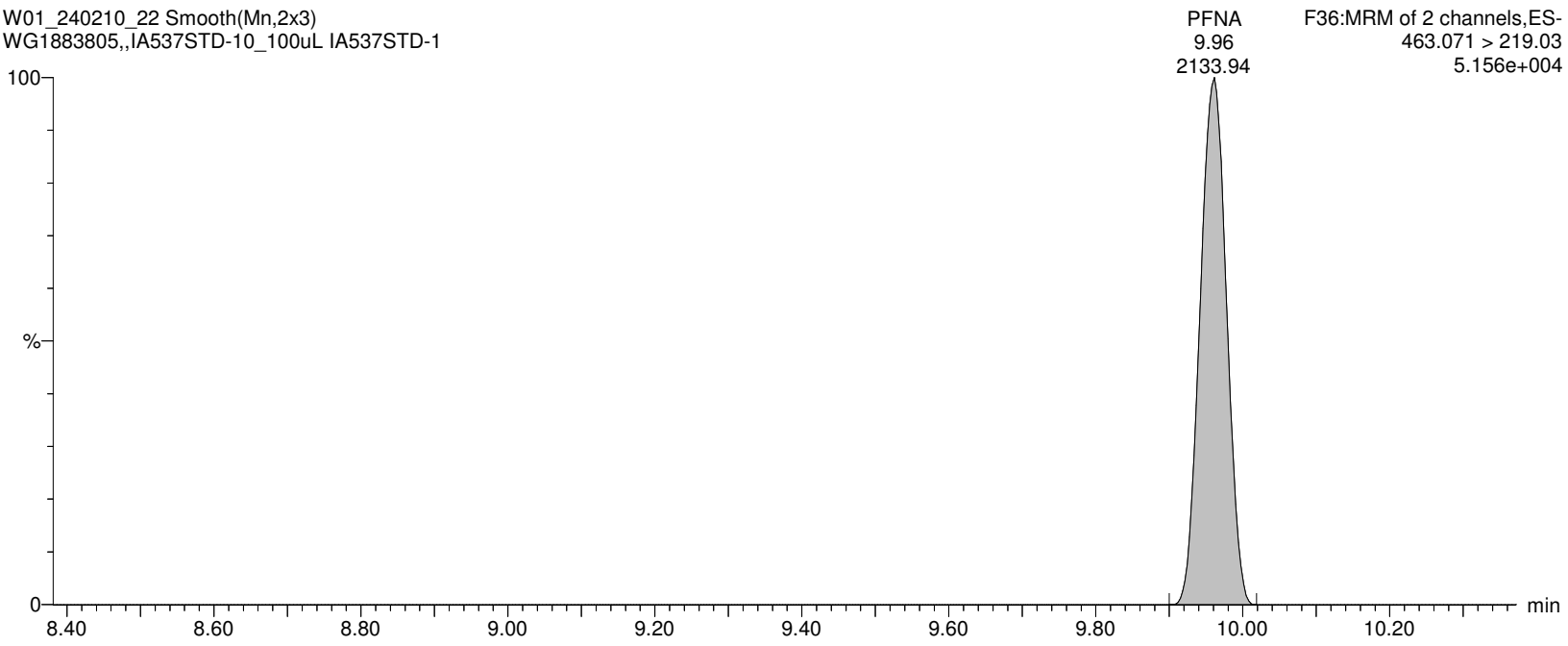

all concentration units in (ng/mL)

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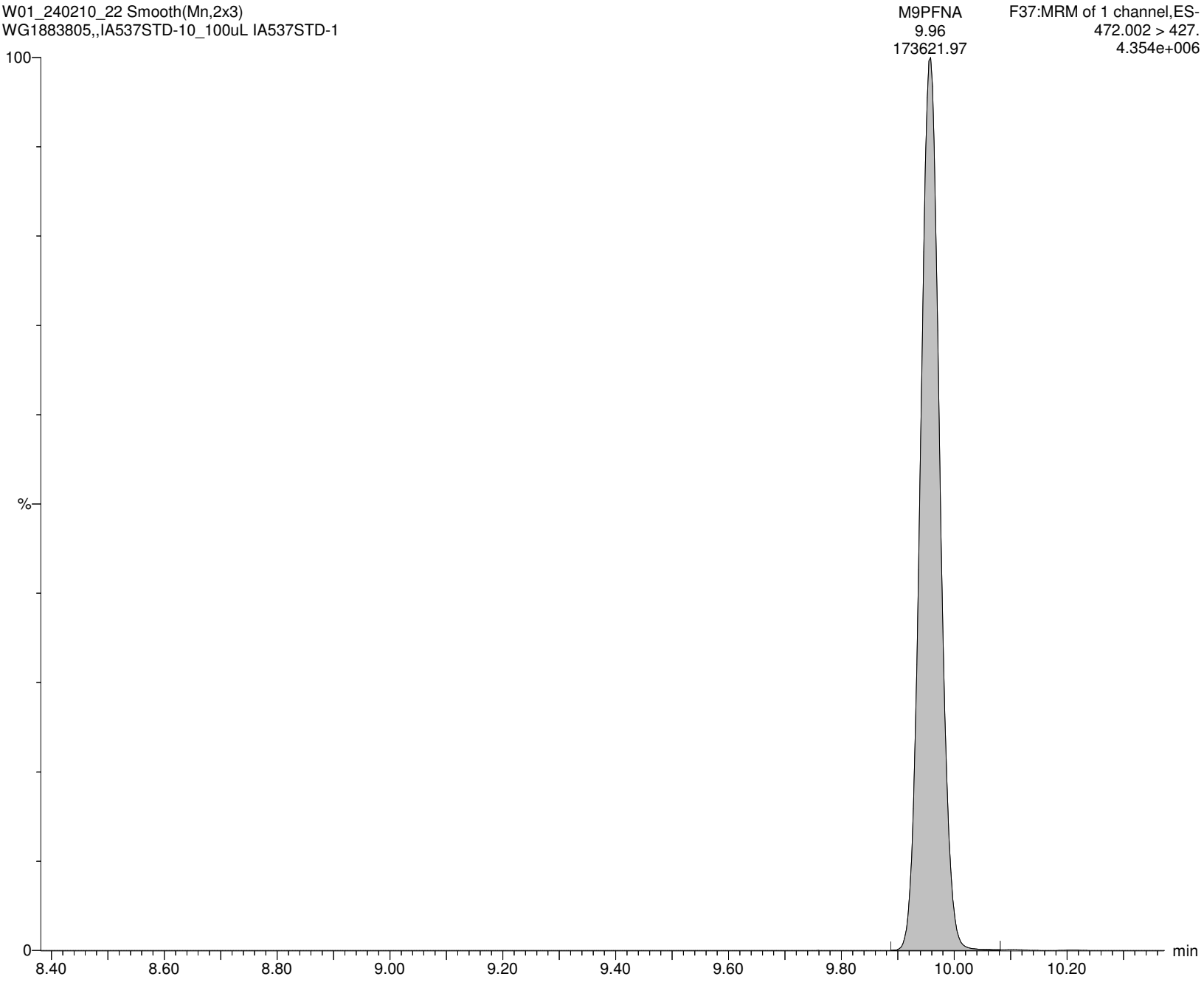

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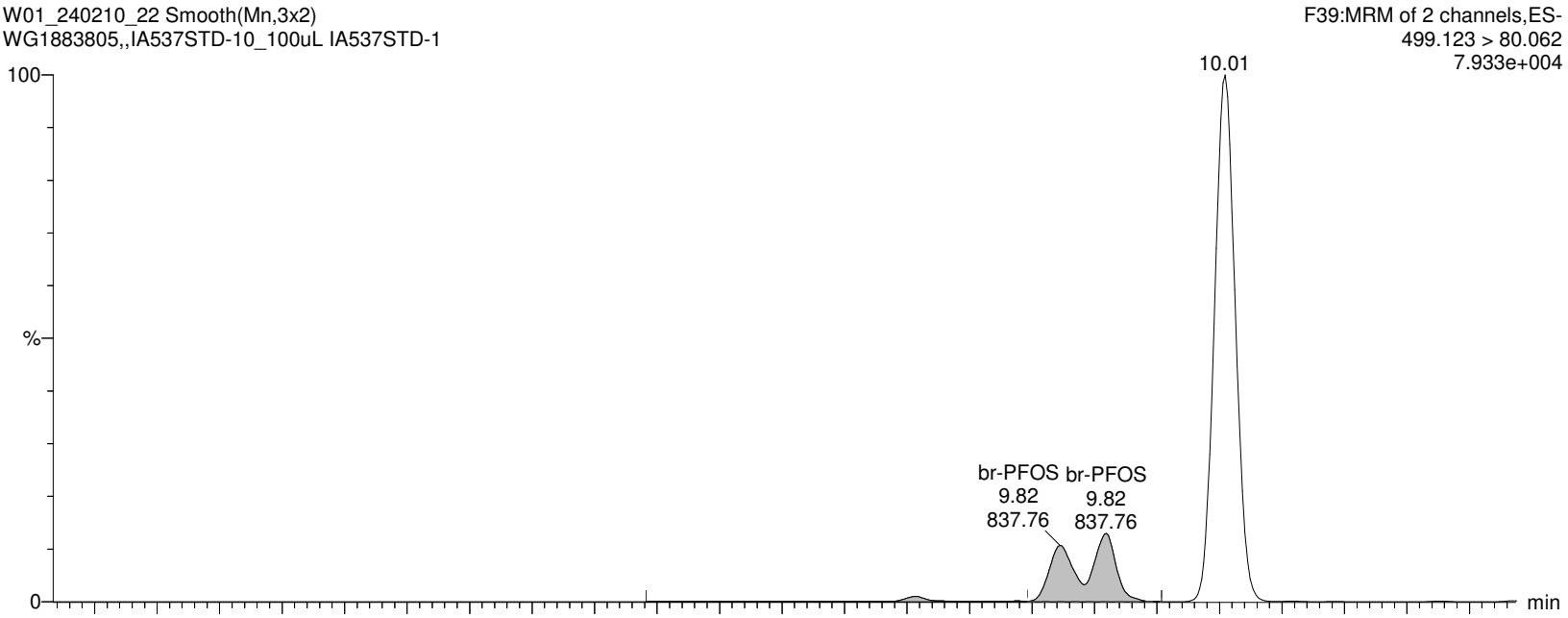
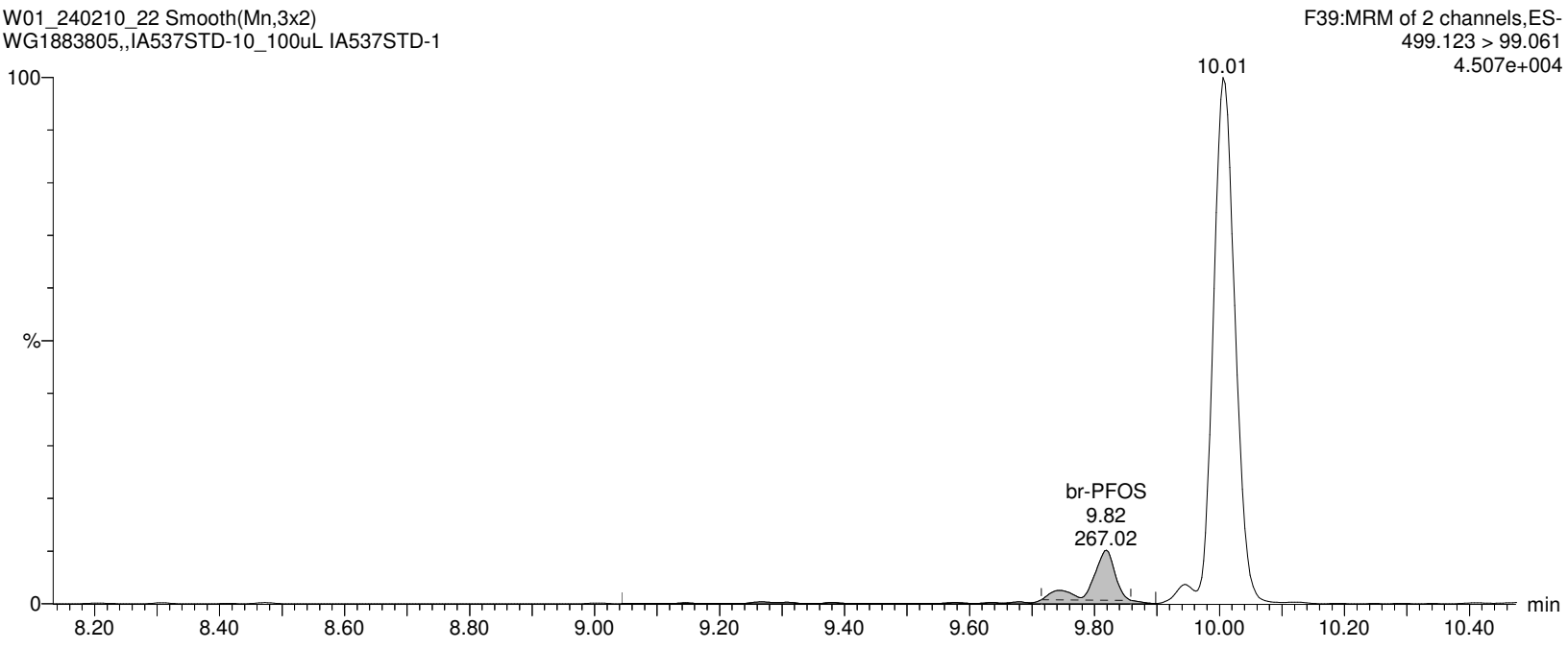
br-PFOS





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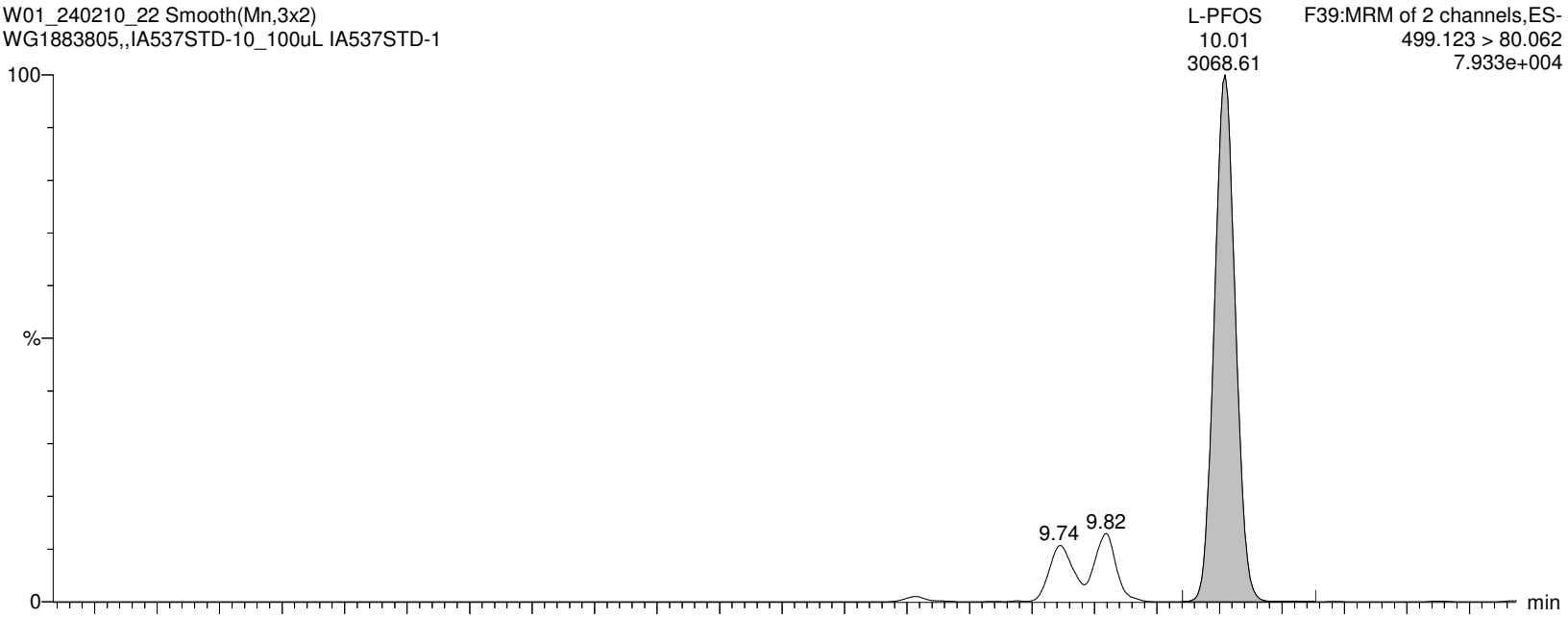
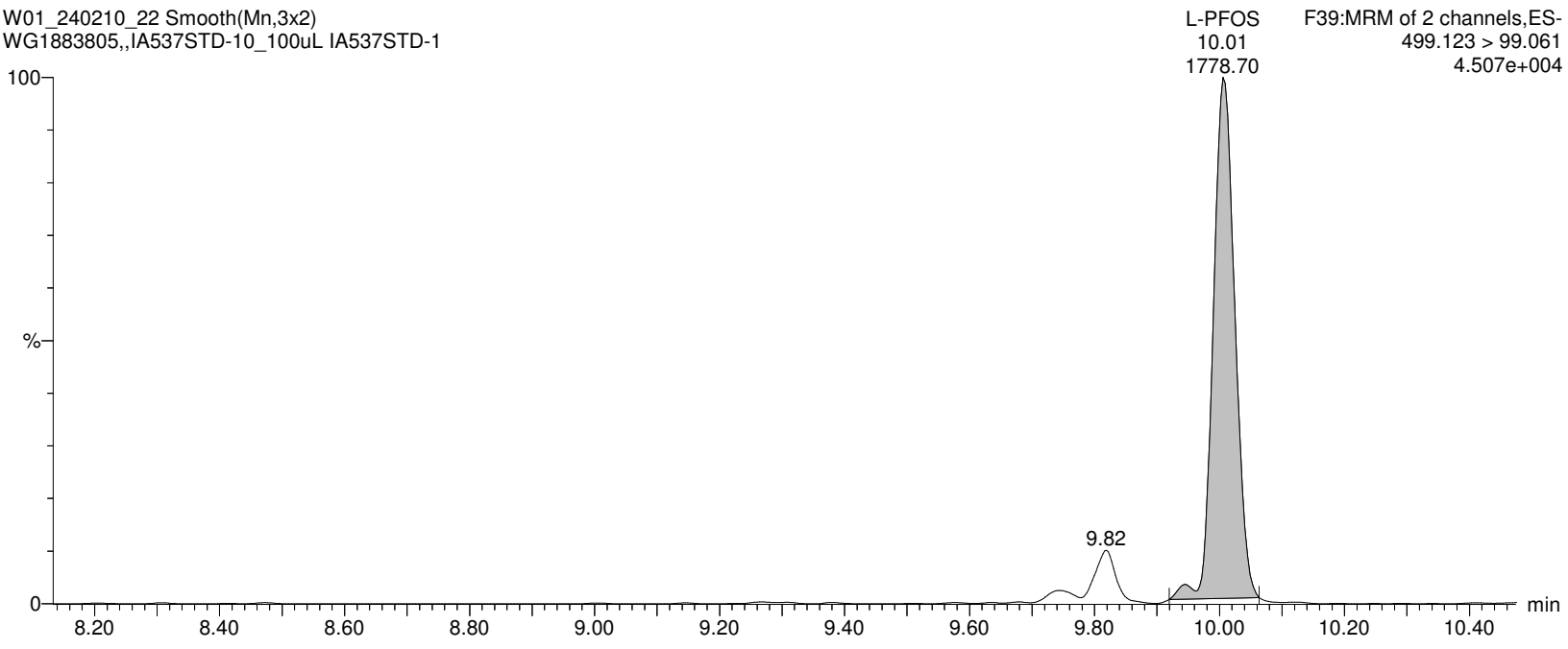
L-PFOS





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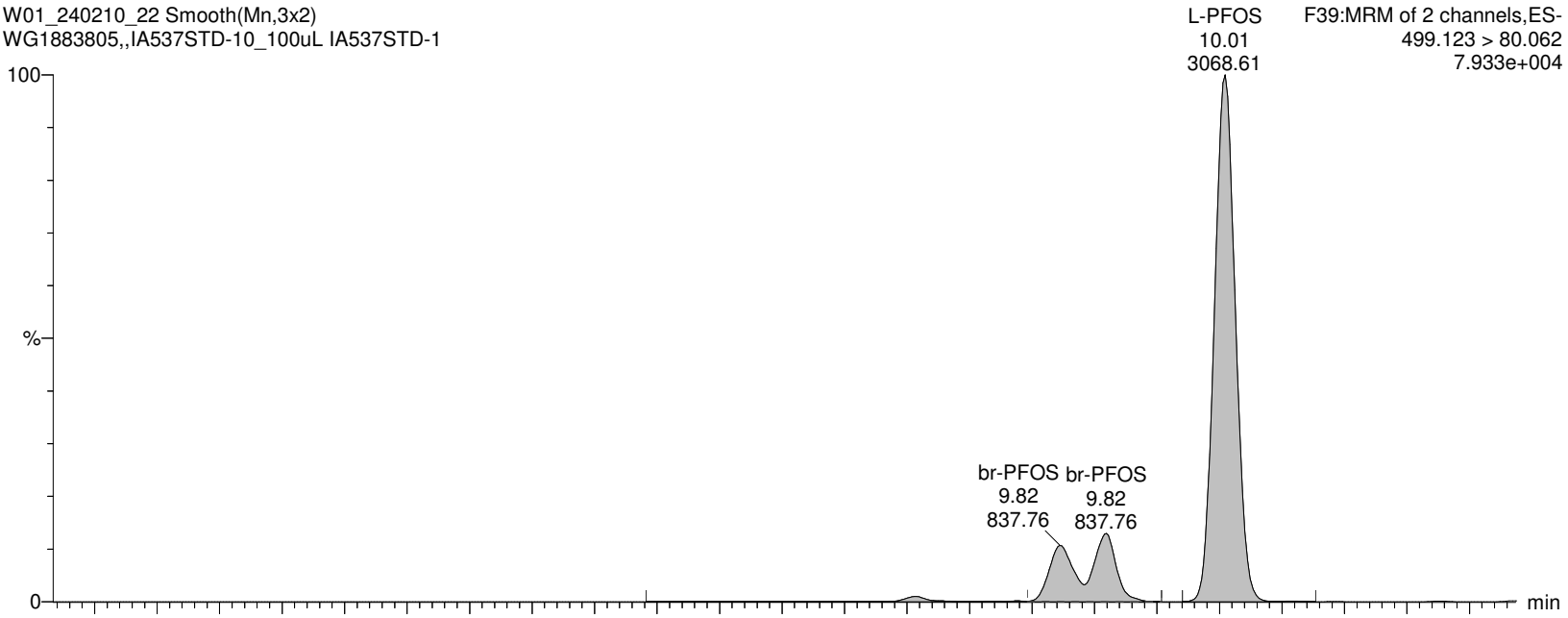

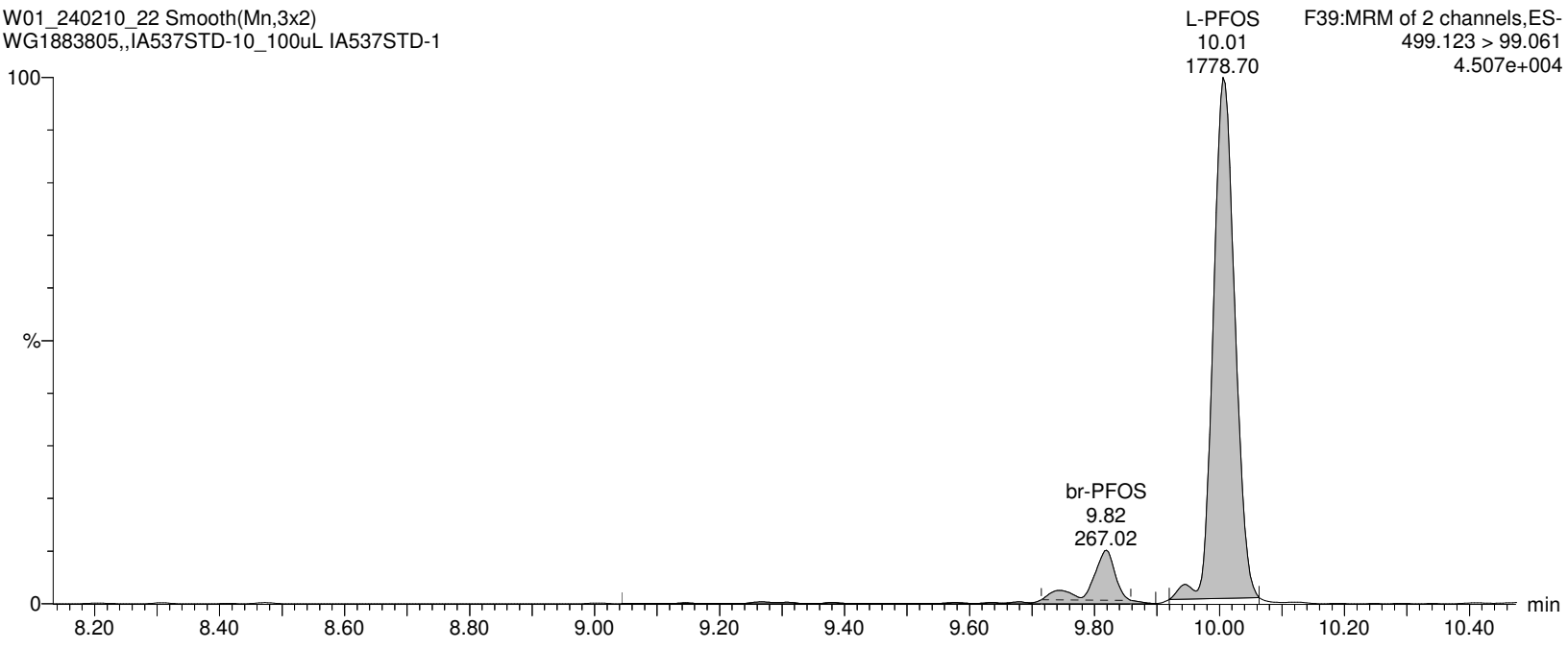

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:10 Eastern Standard Time

Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
Description: WG1883805,,IA537STD-10_100uL
User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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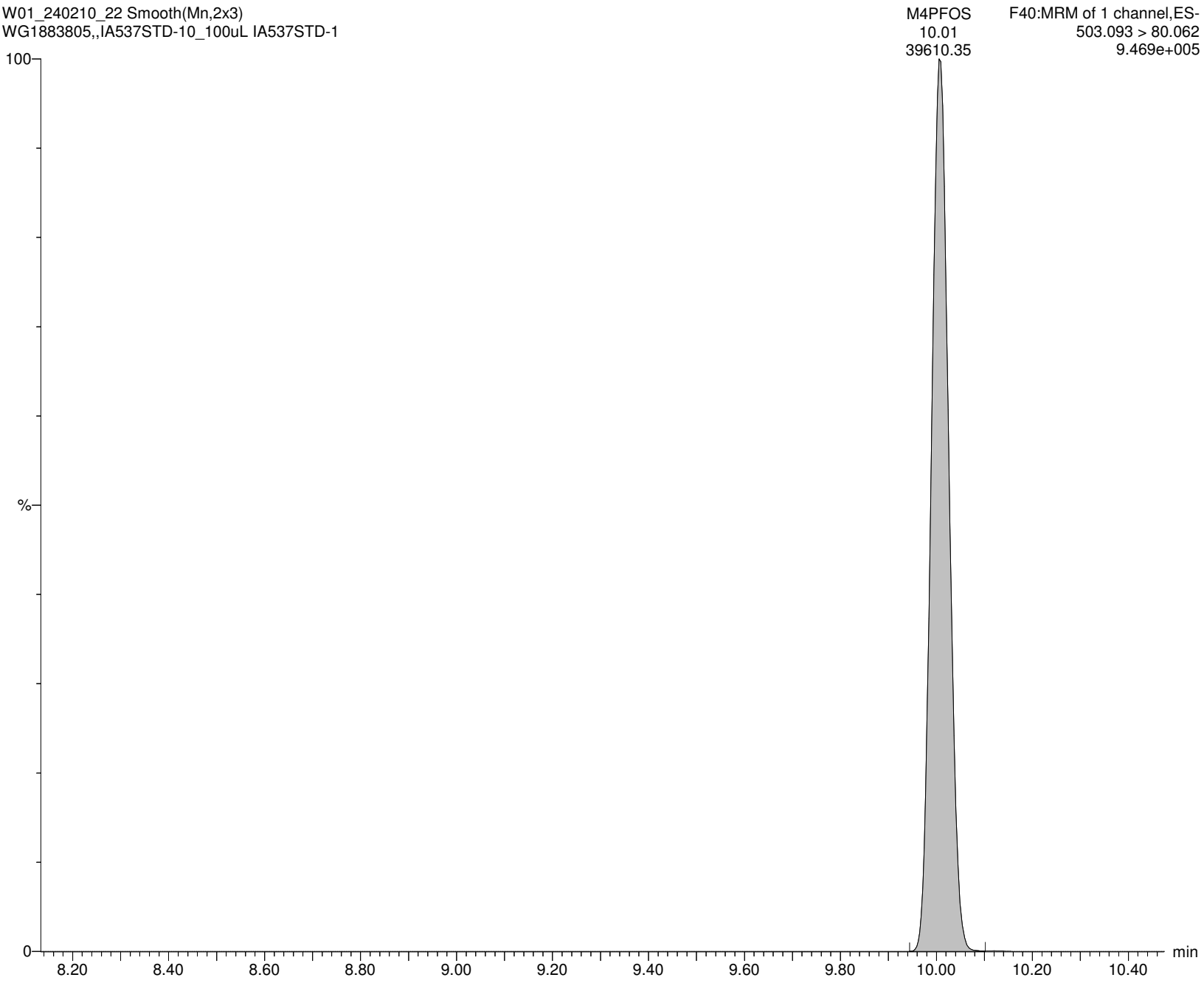

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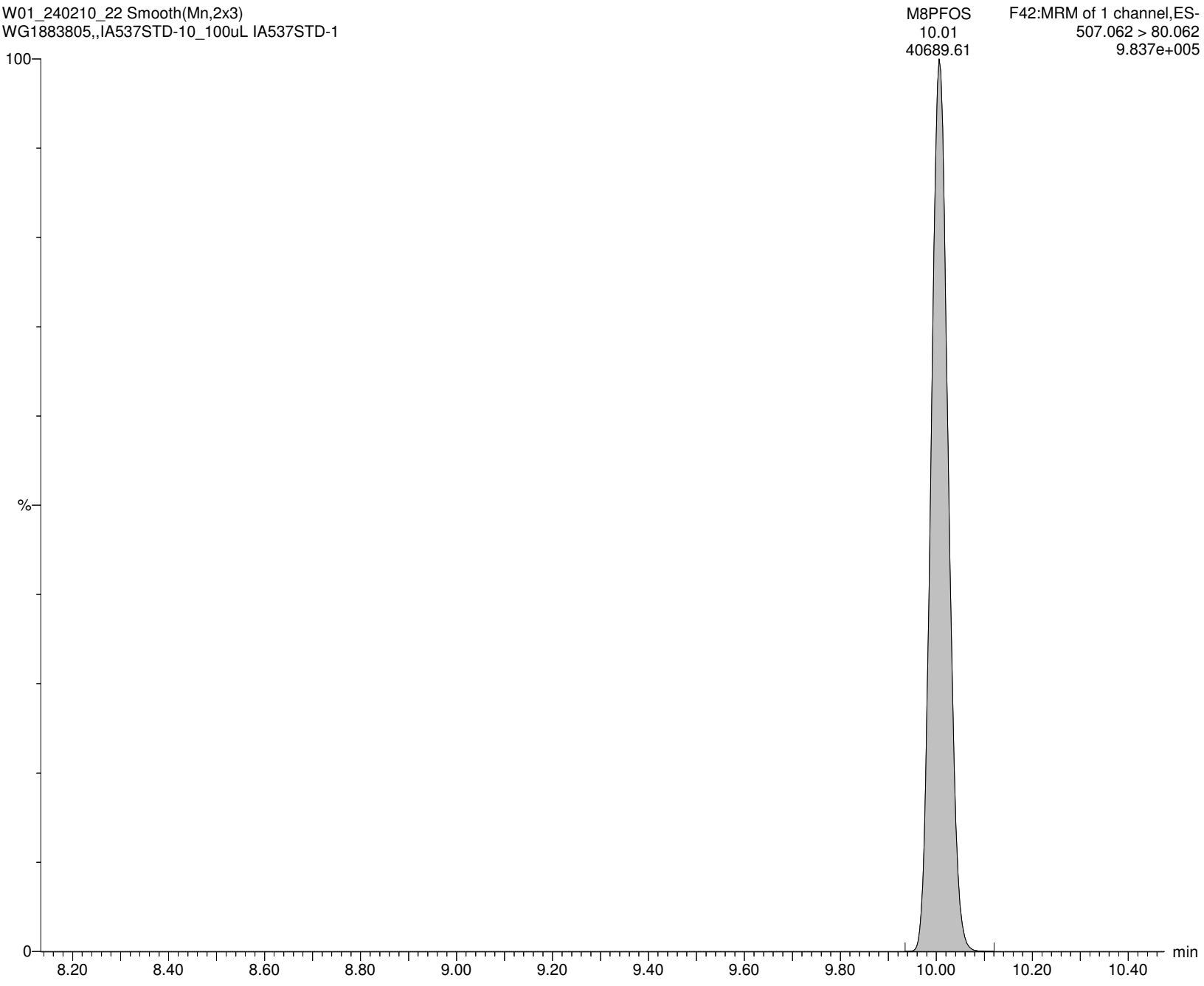

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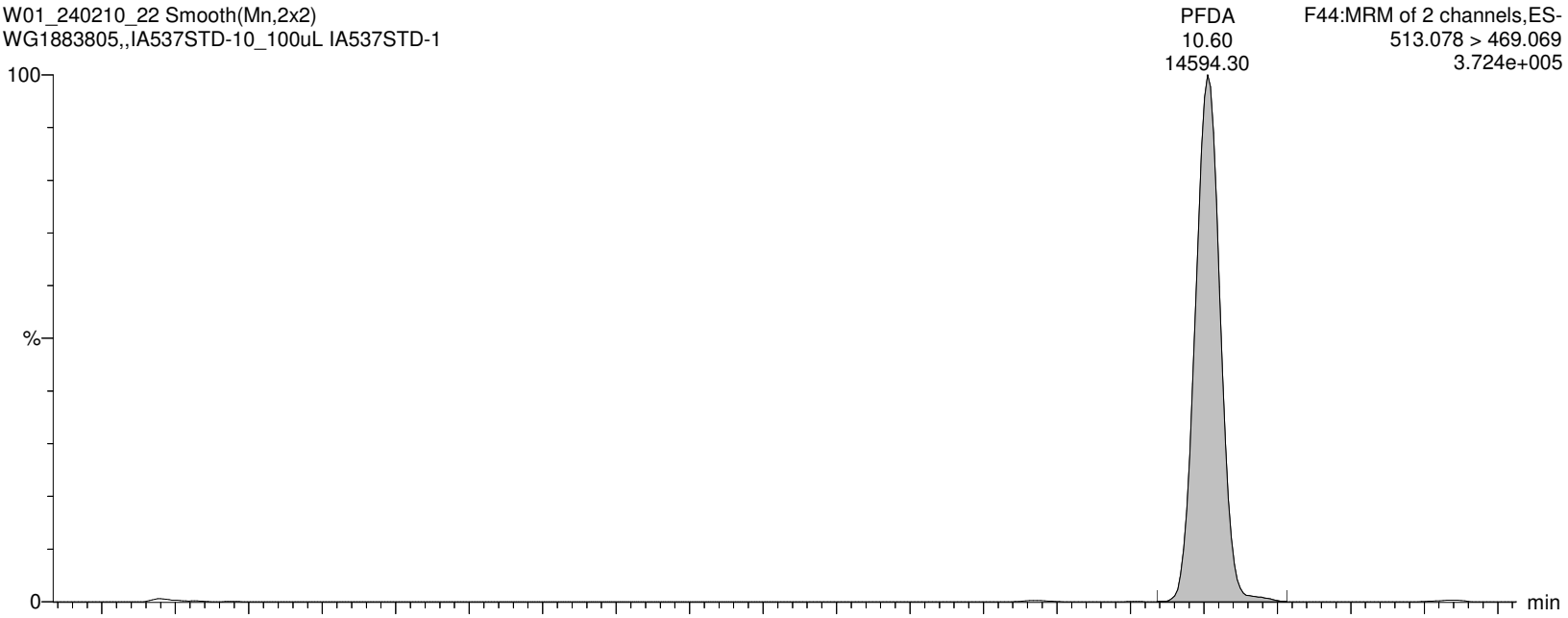

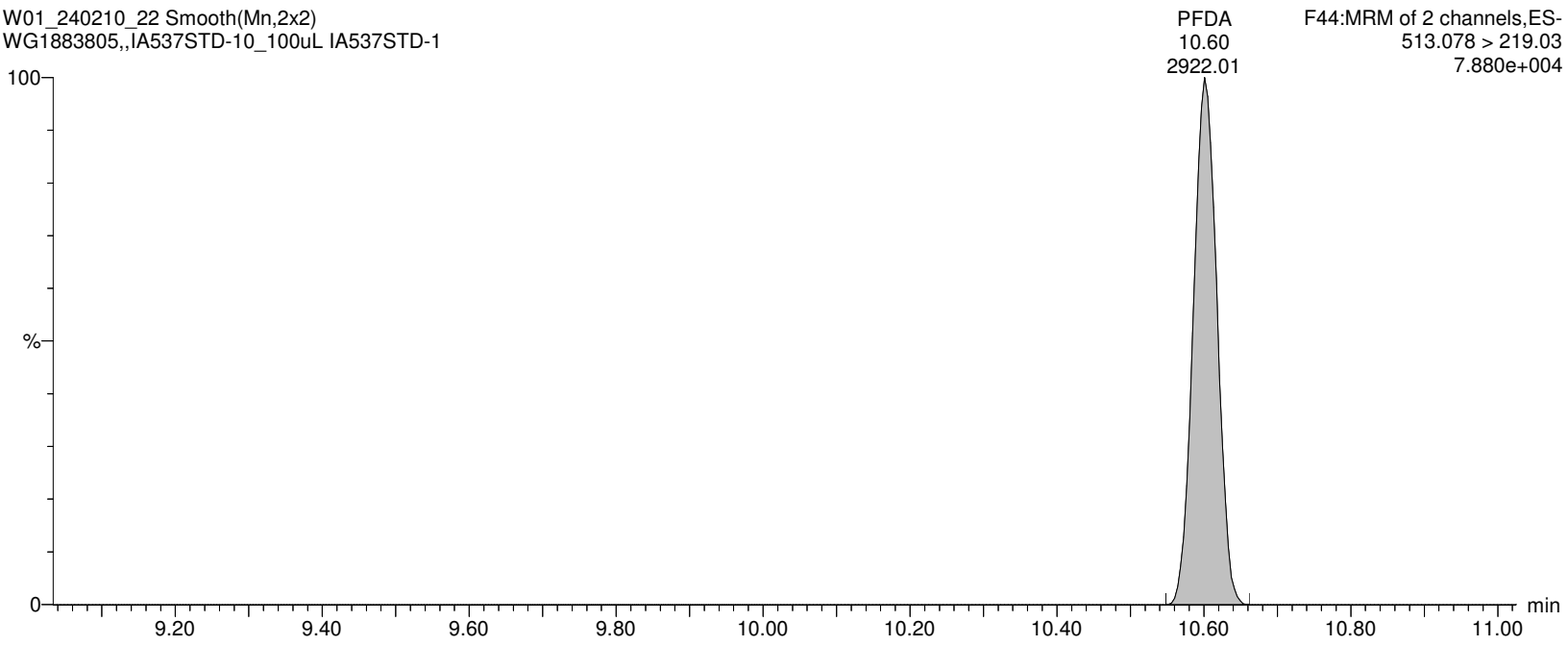

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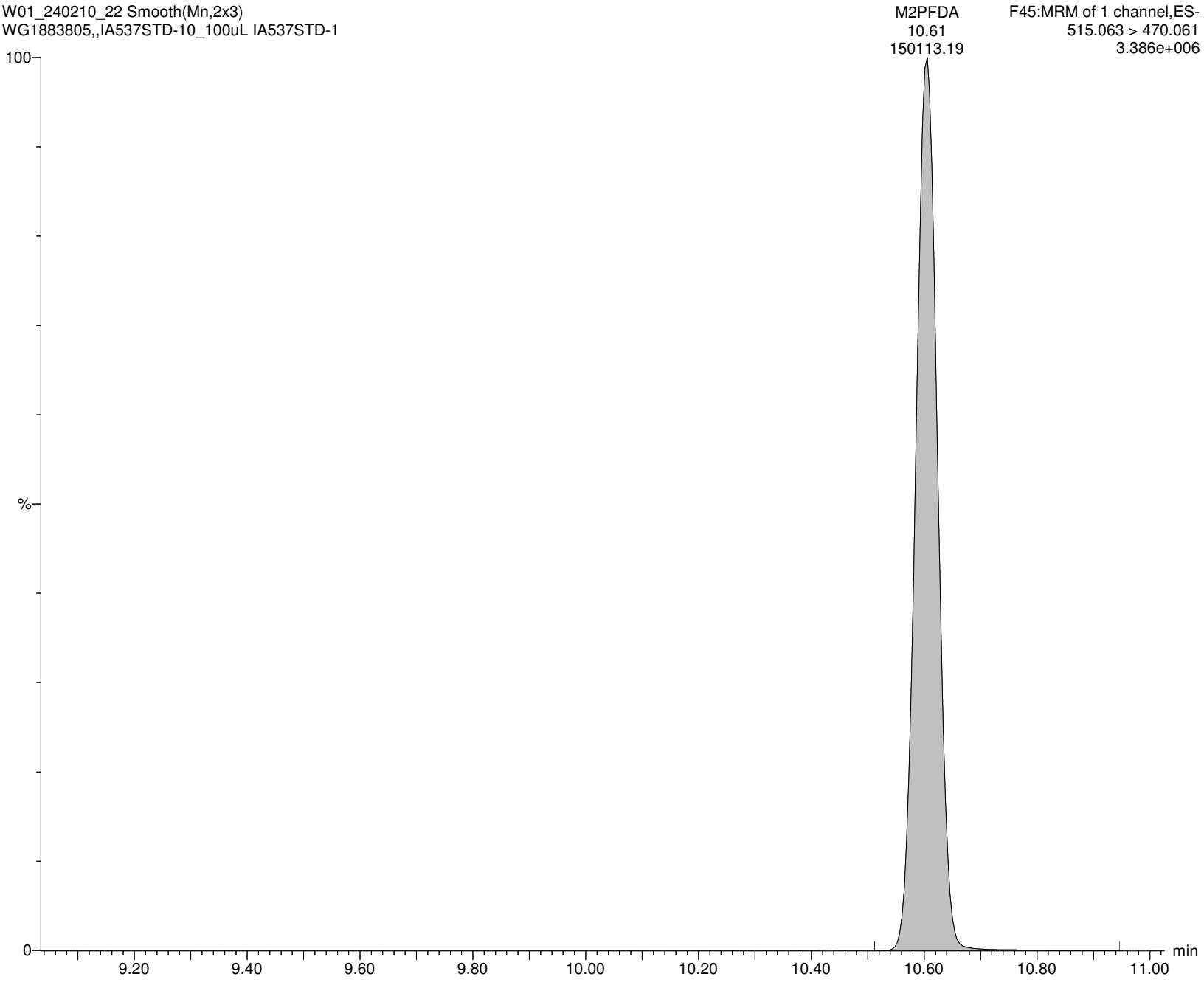

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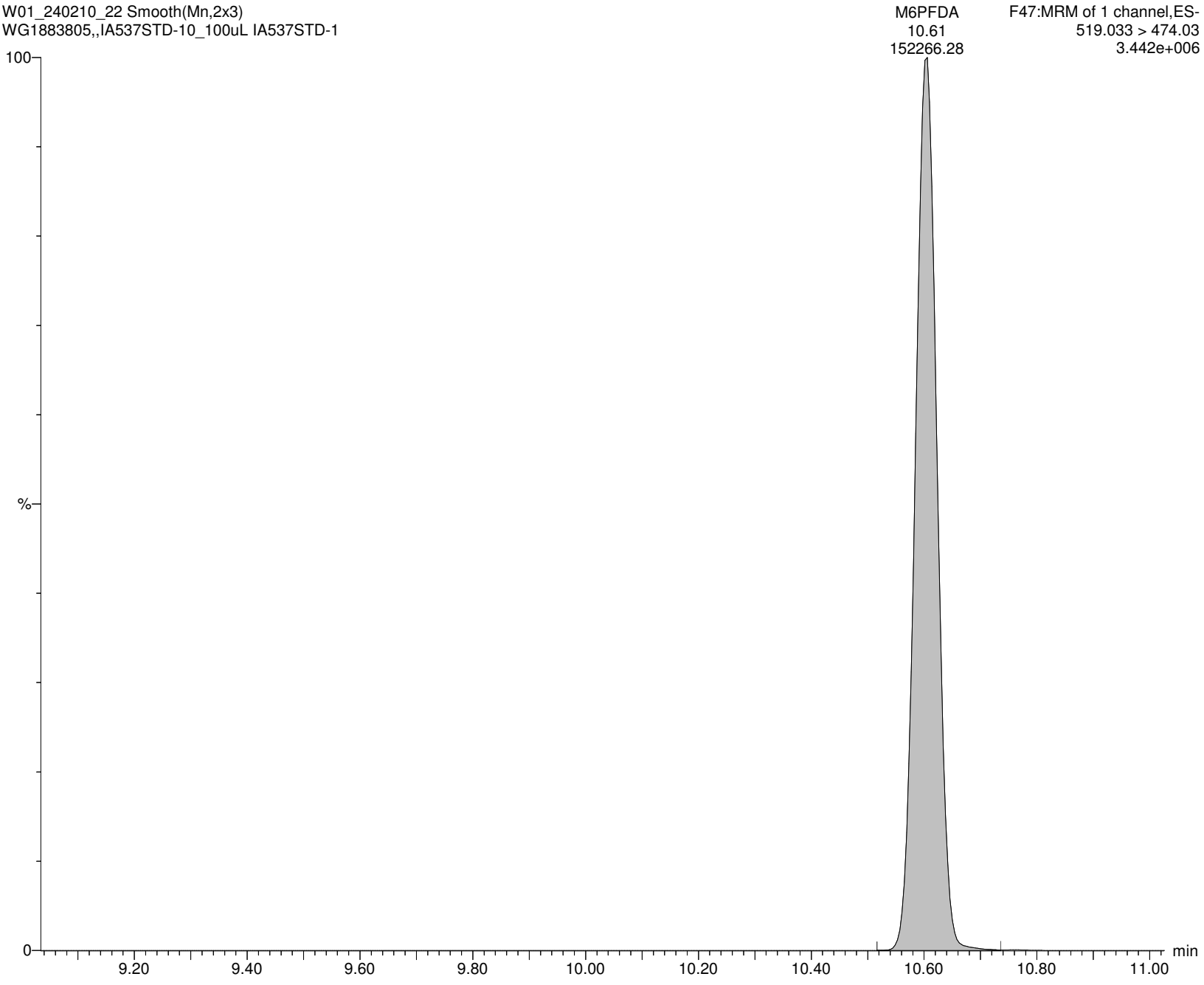

all concentration units in (ng/mL)

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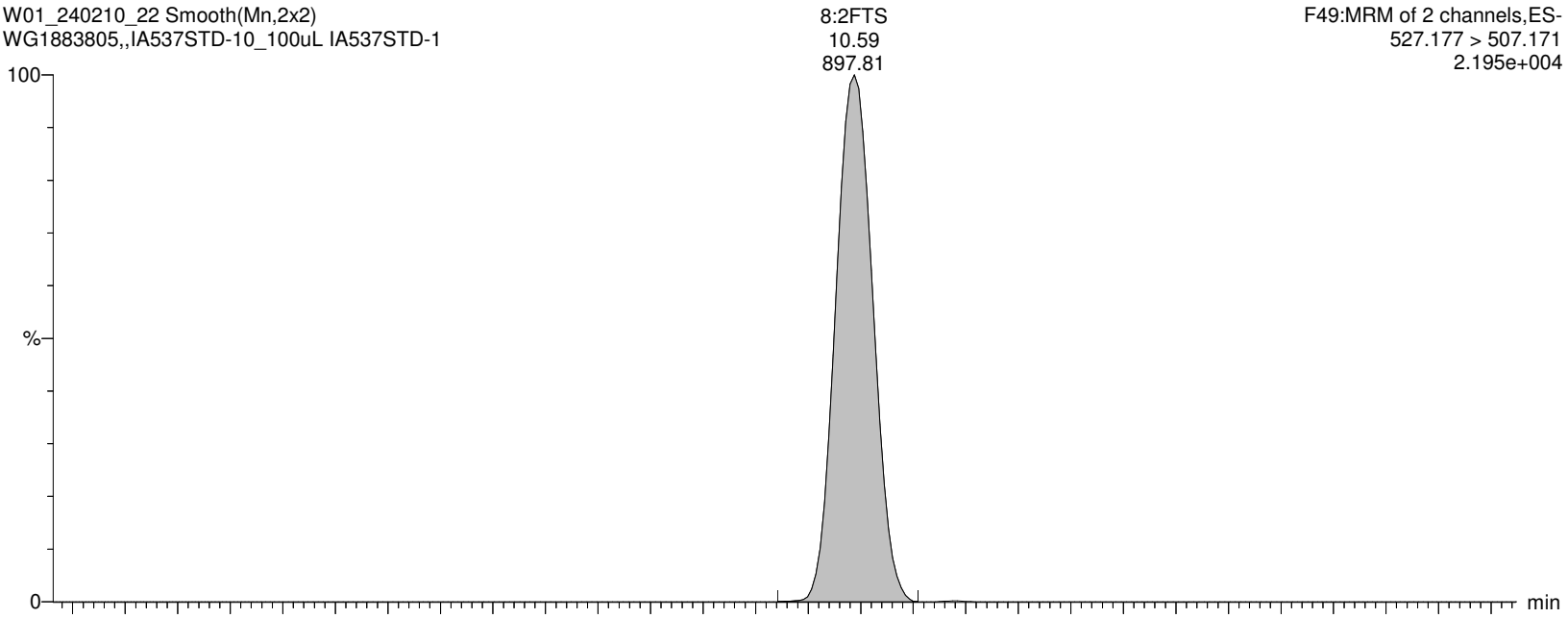

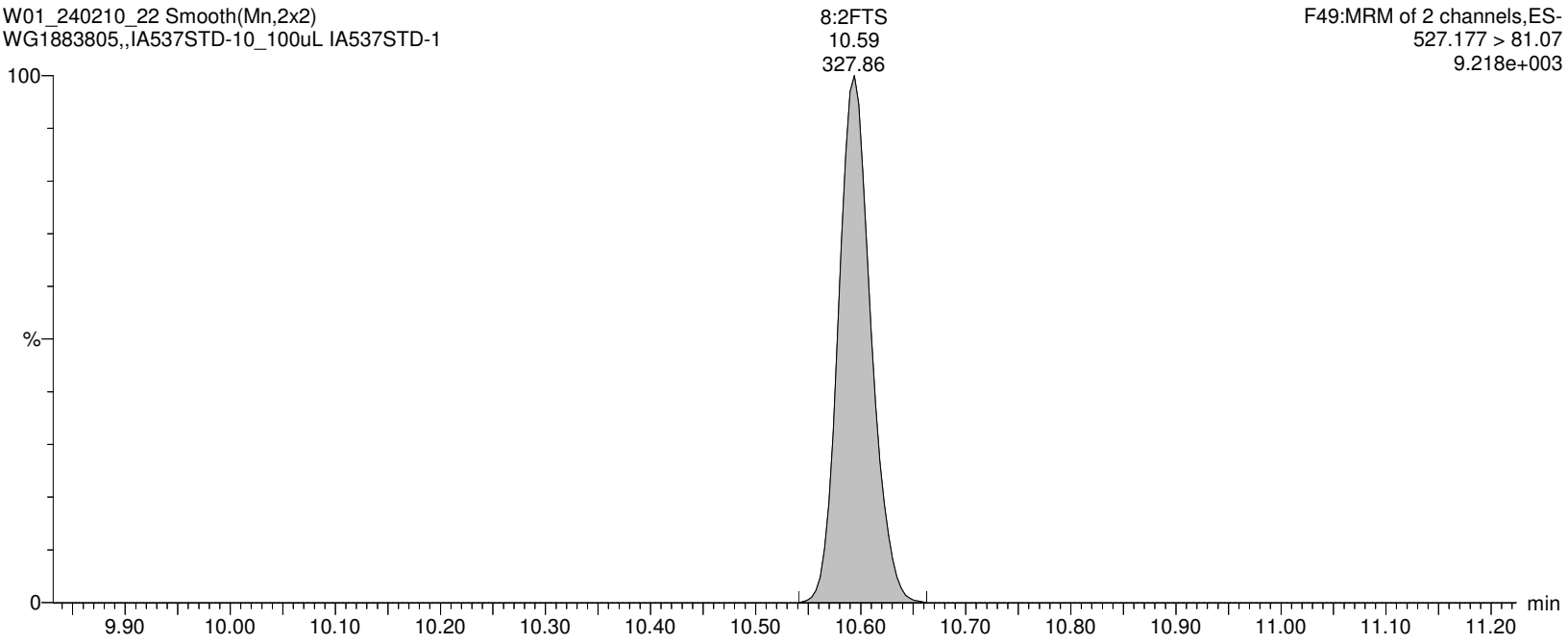

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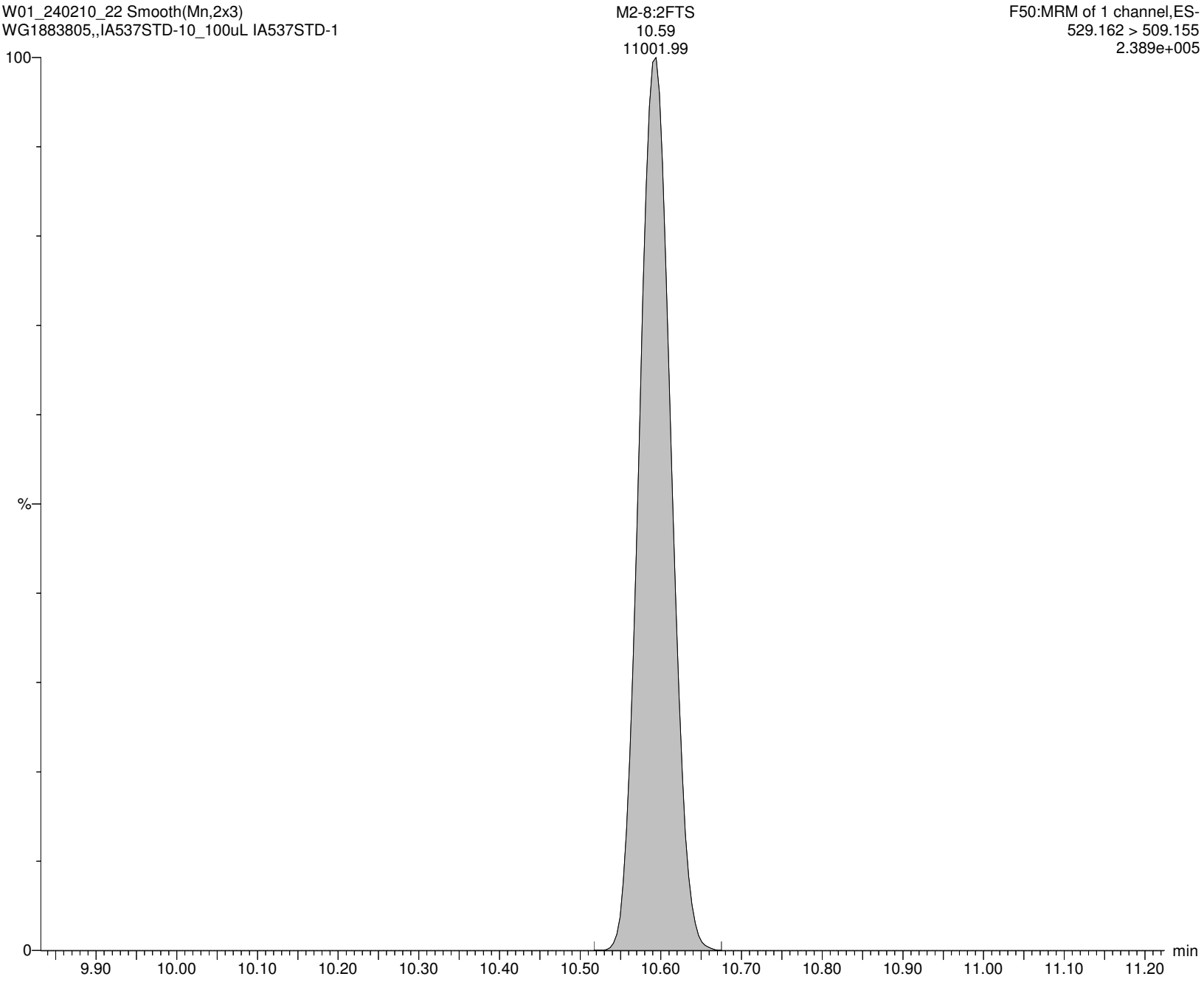

all concentration units in (ng/mL)

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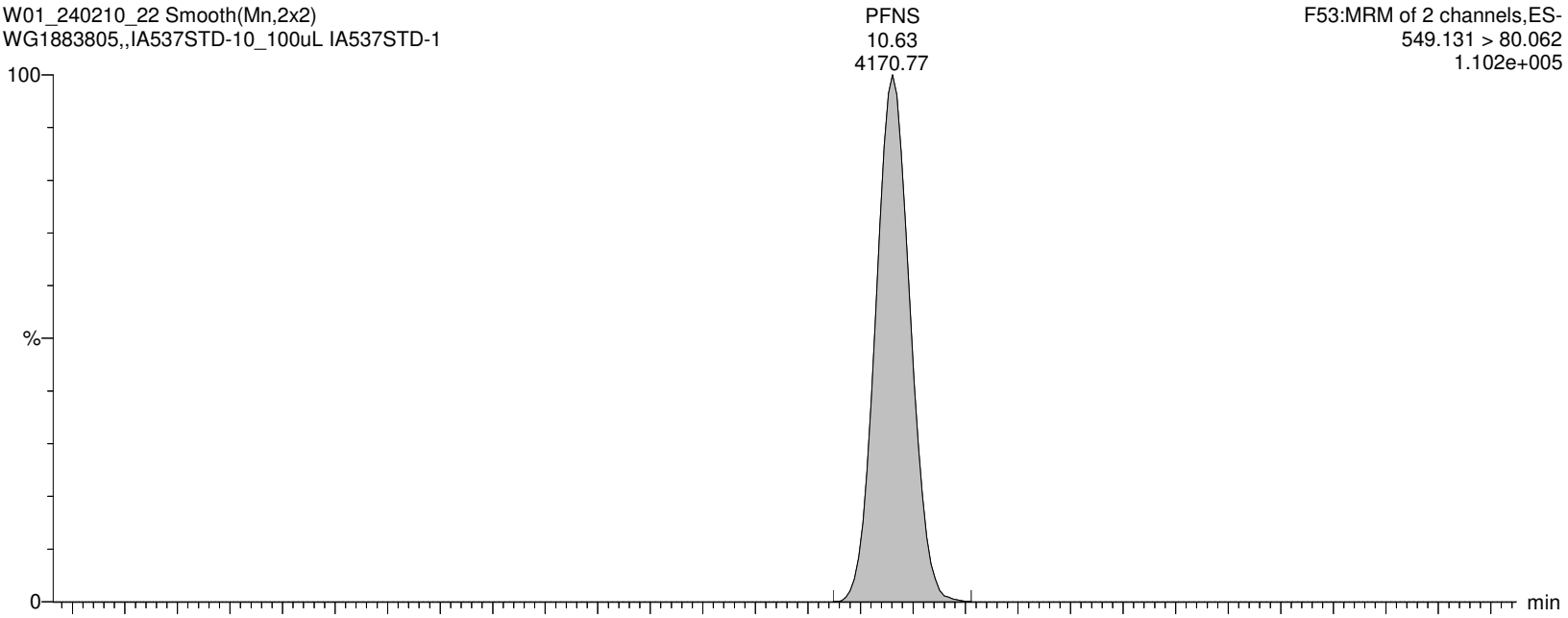

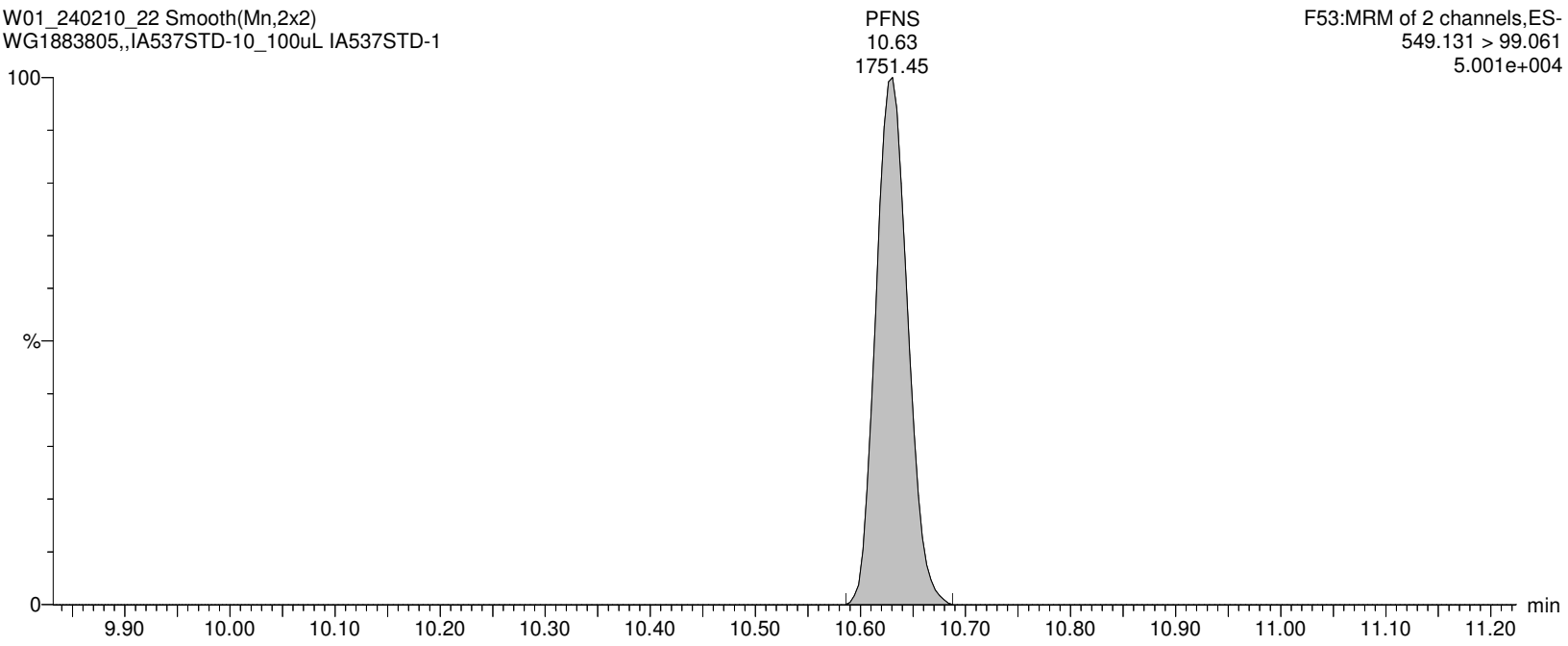

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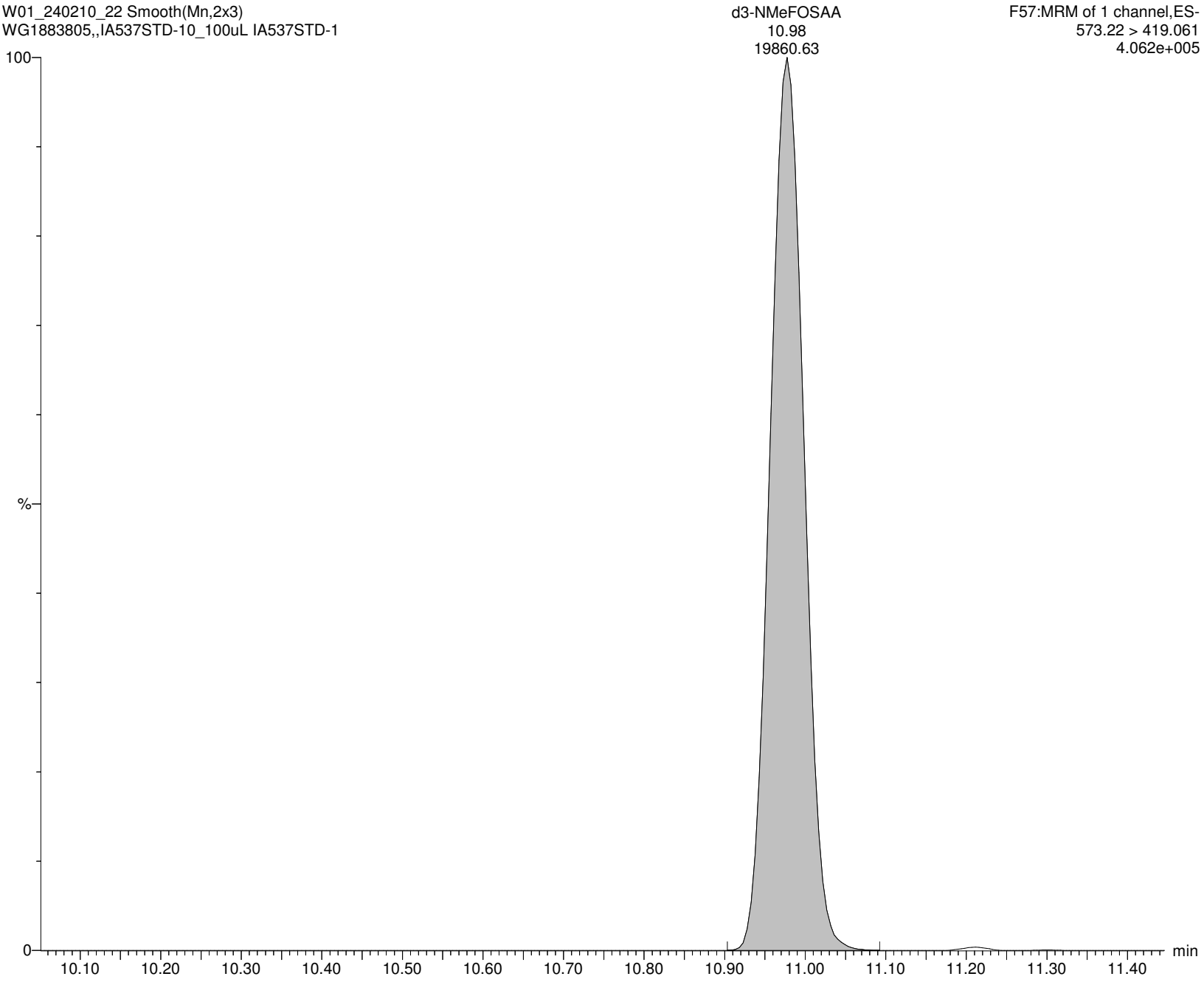

all concentration units in (ng/mL)

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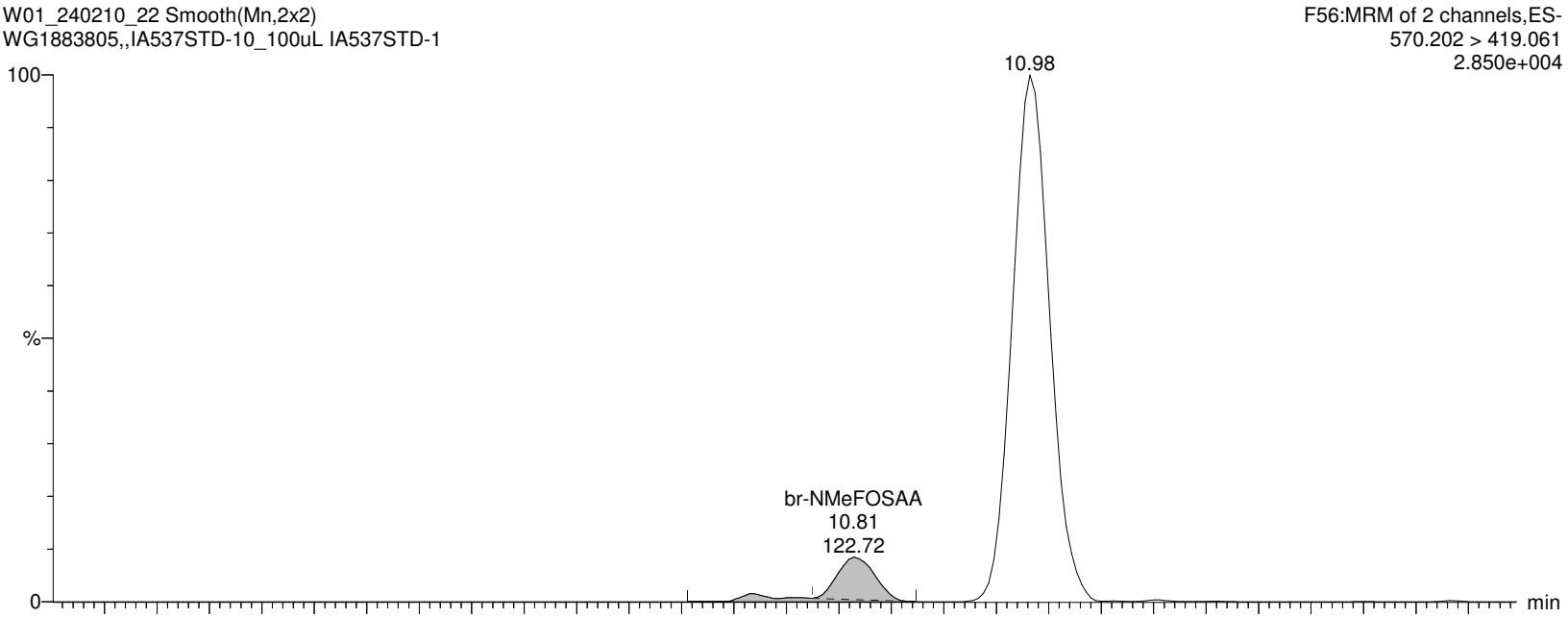

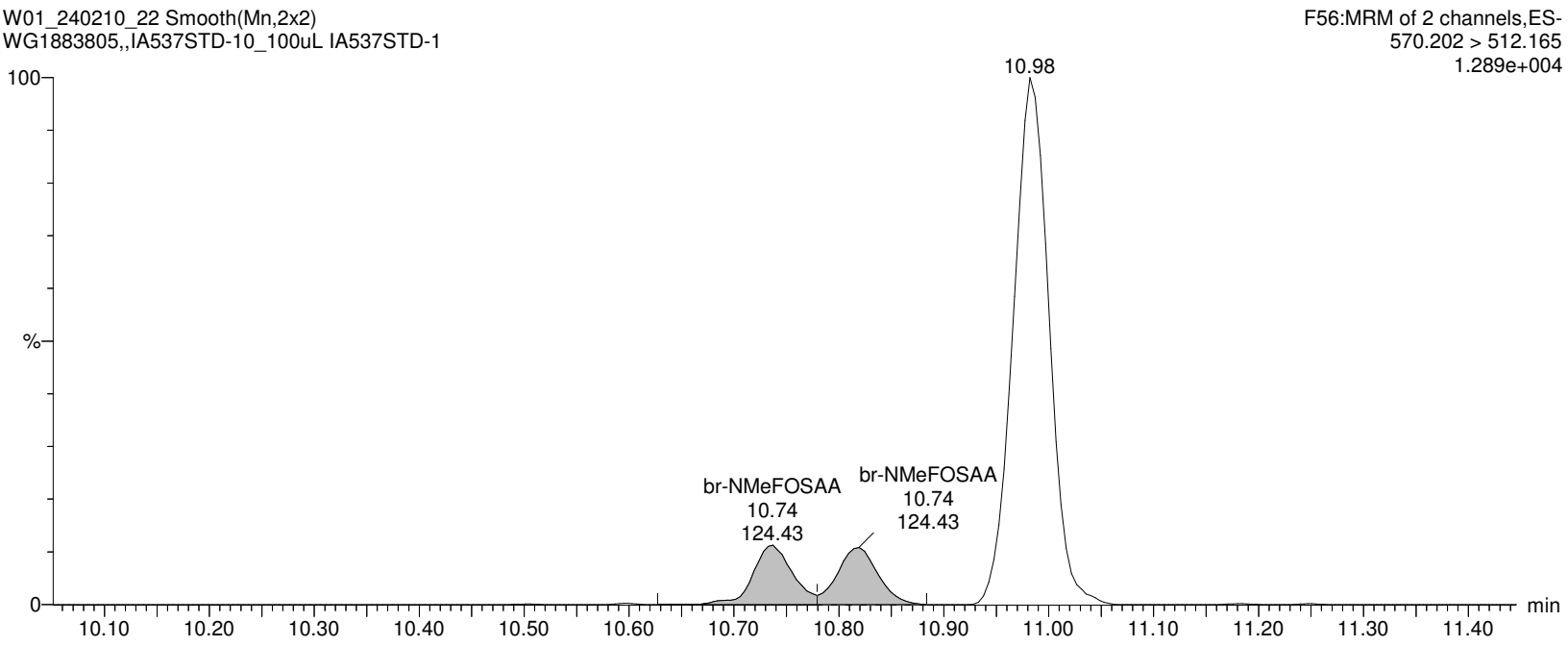

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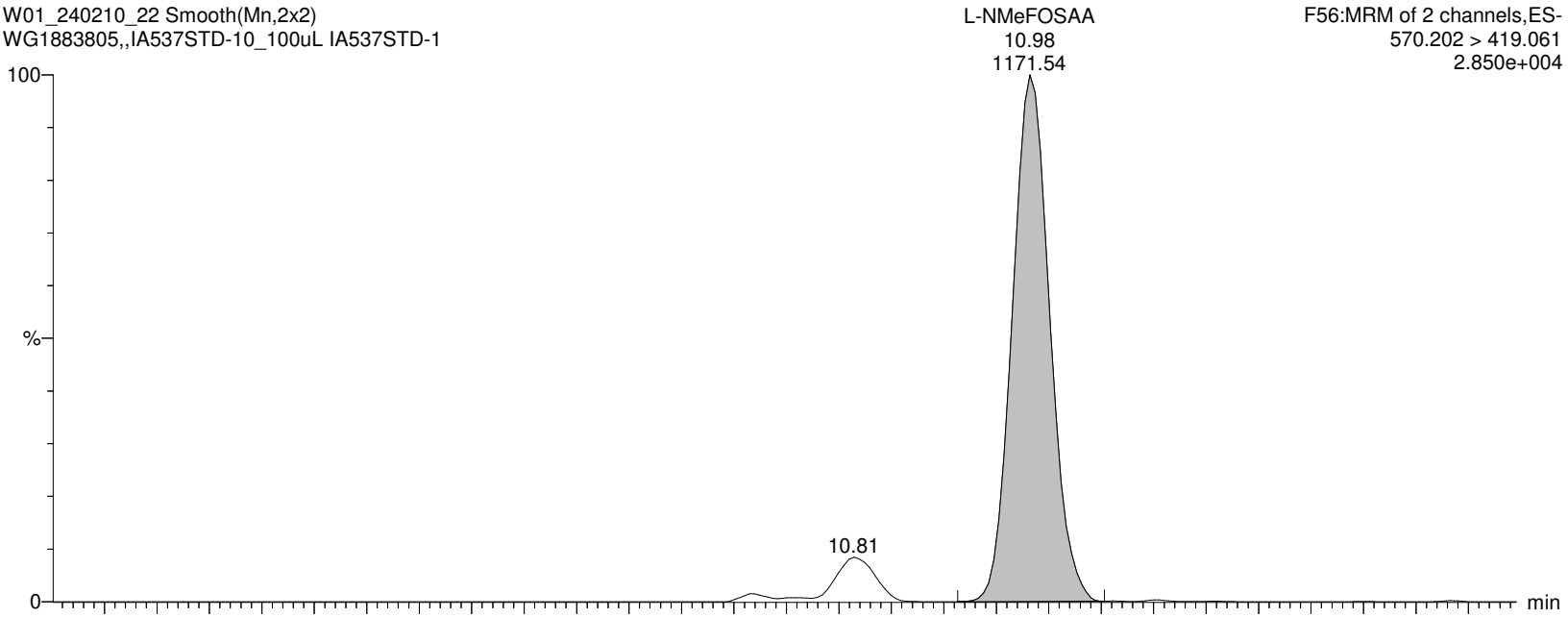

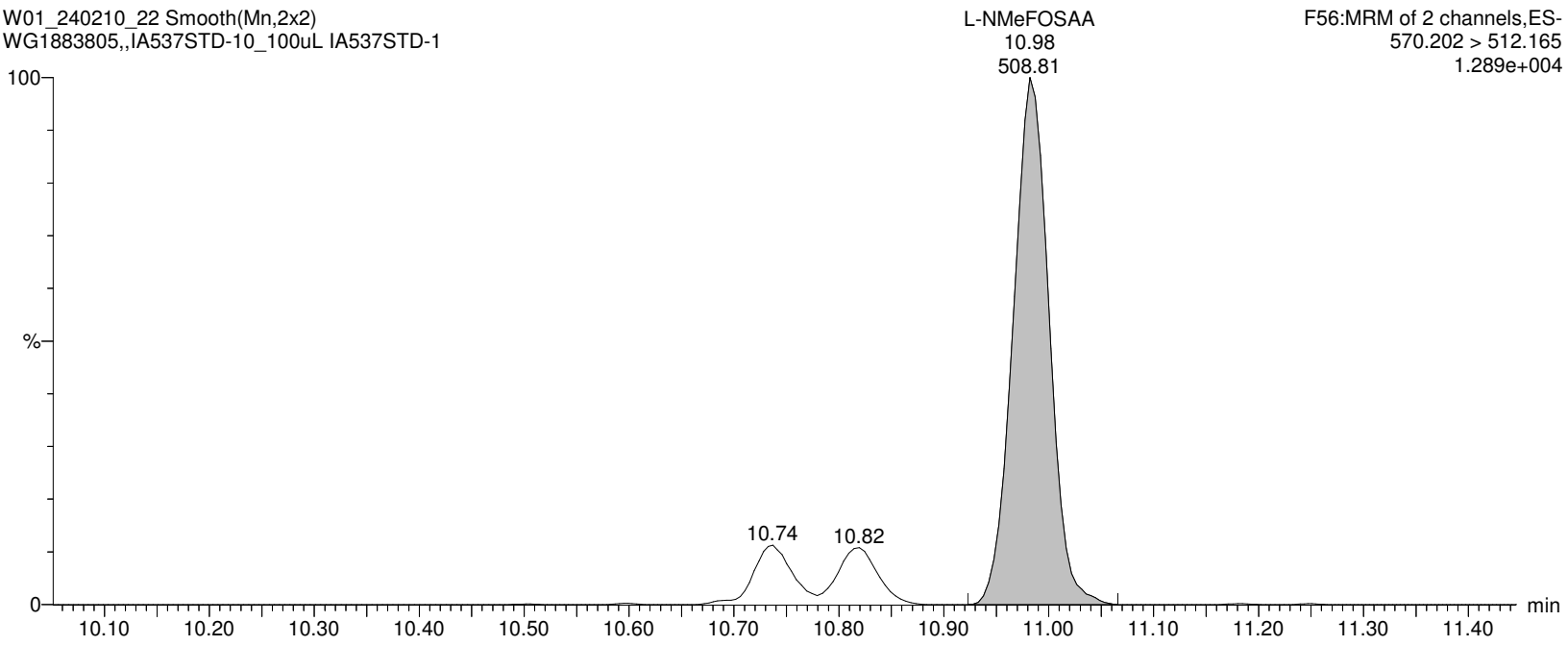

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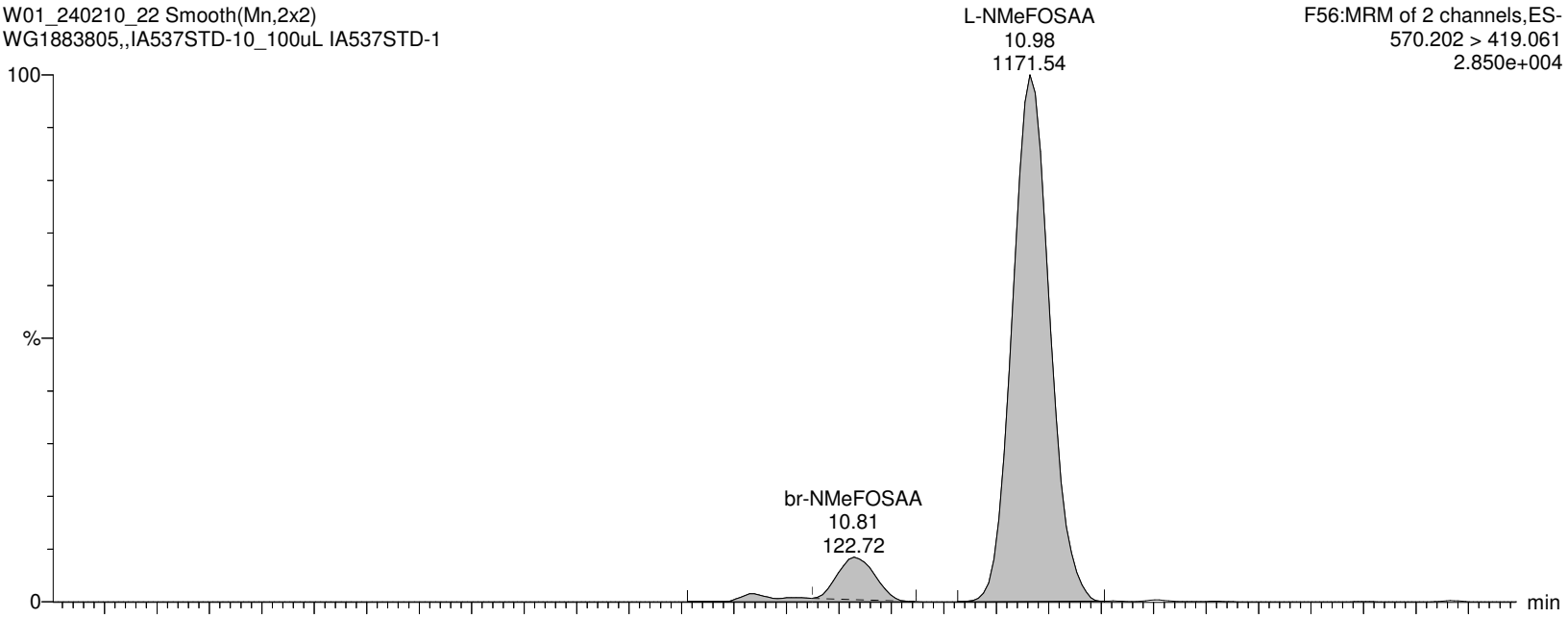

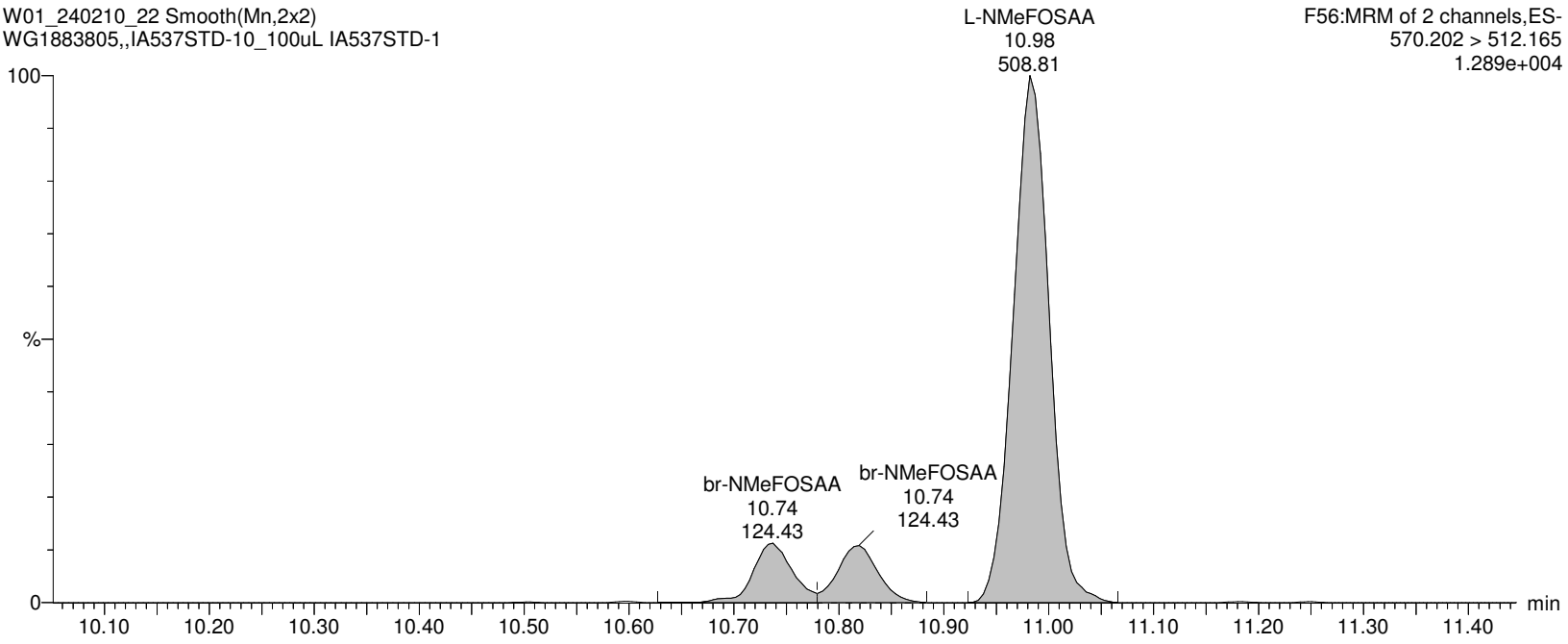

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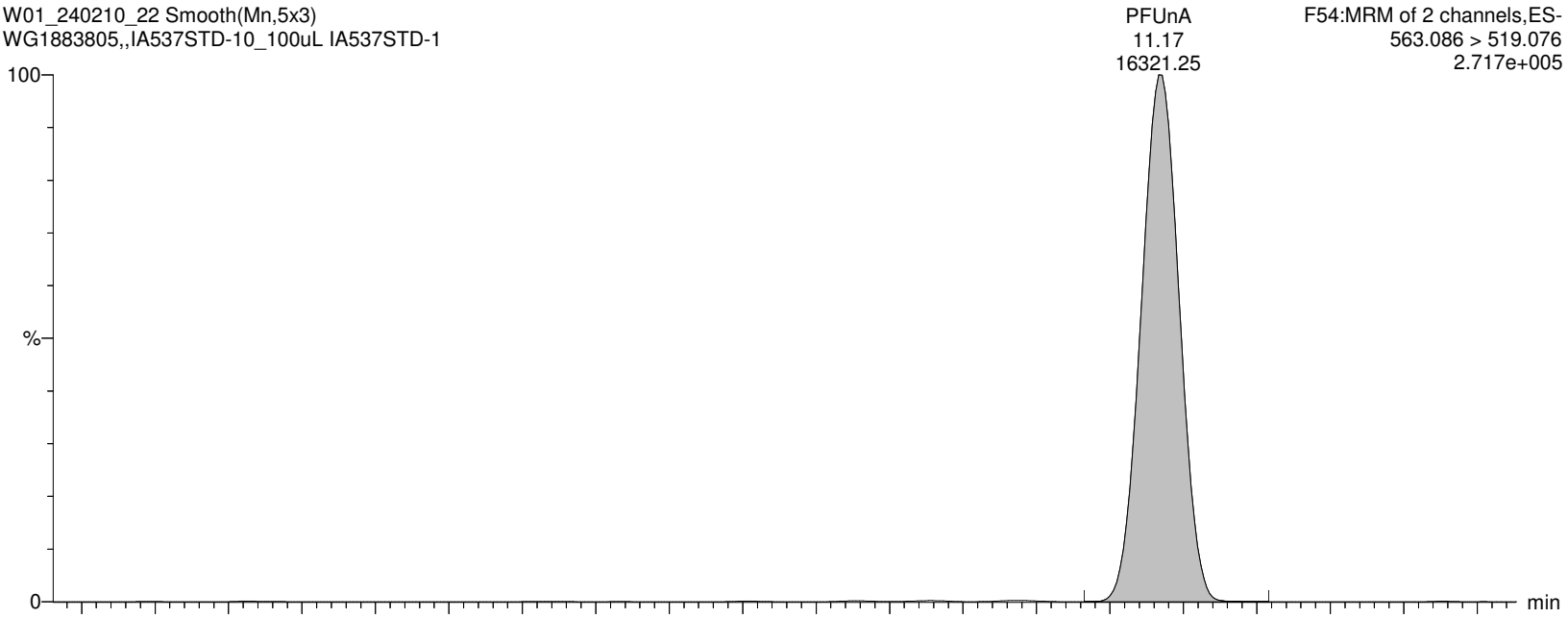

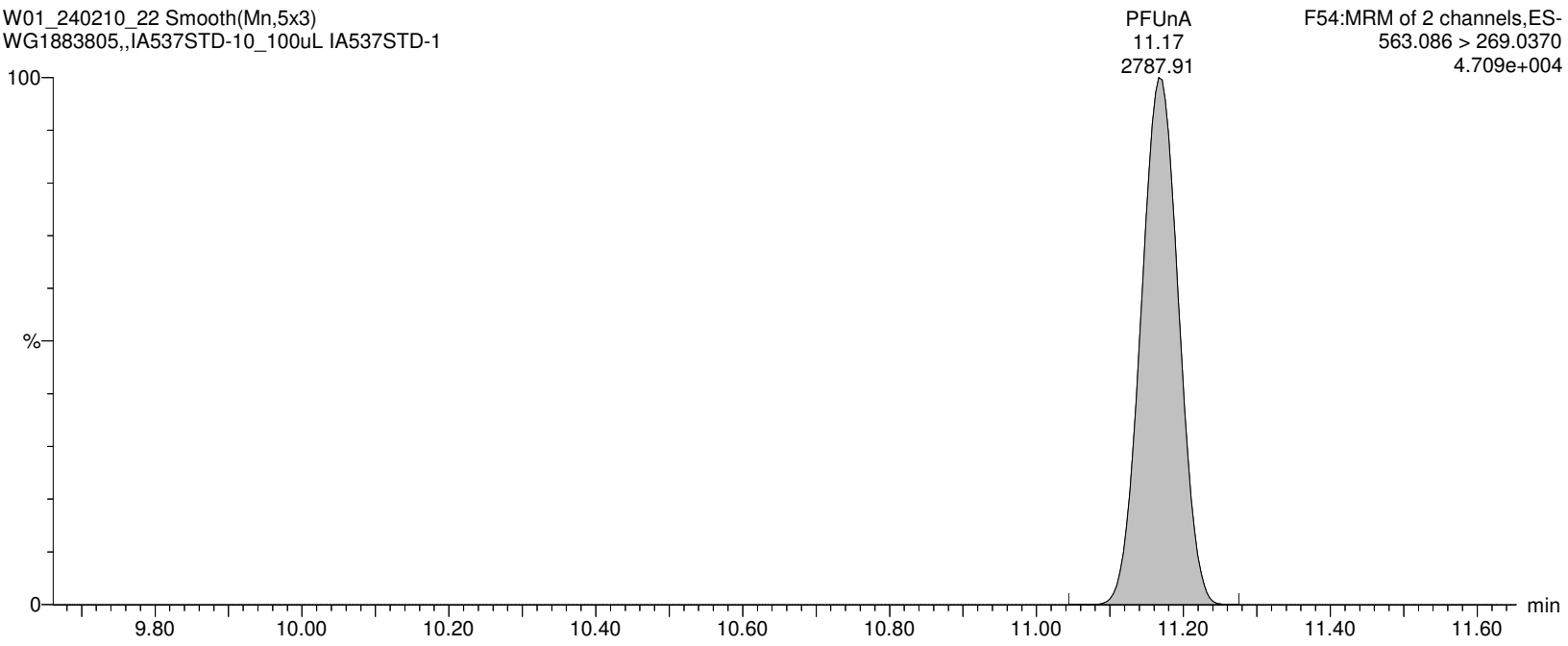

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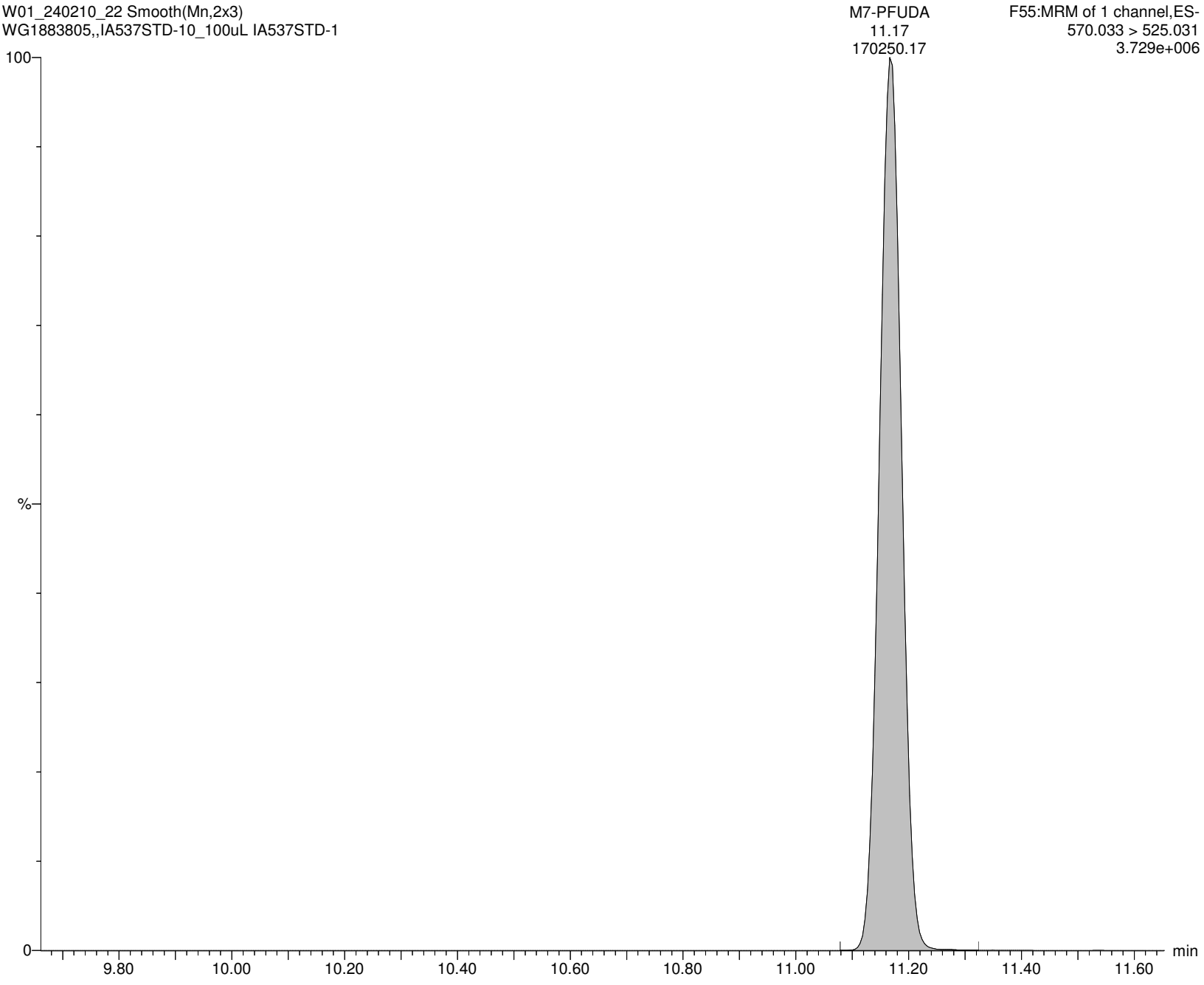

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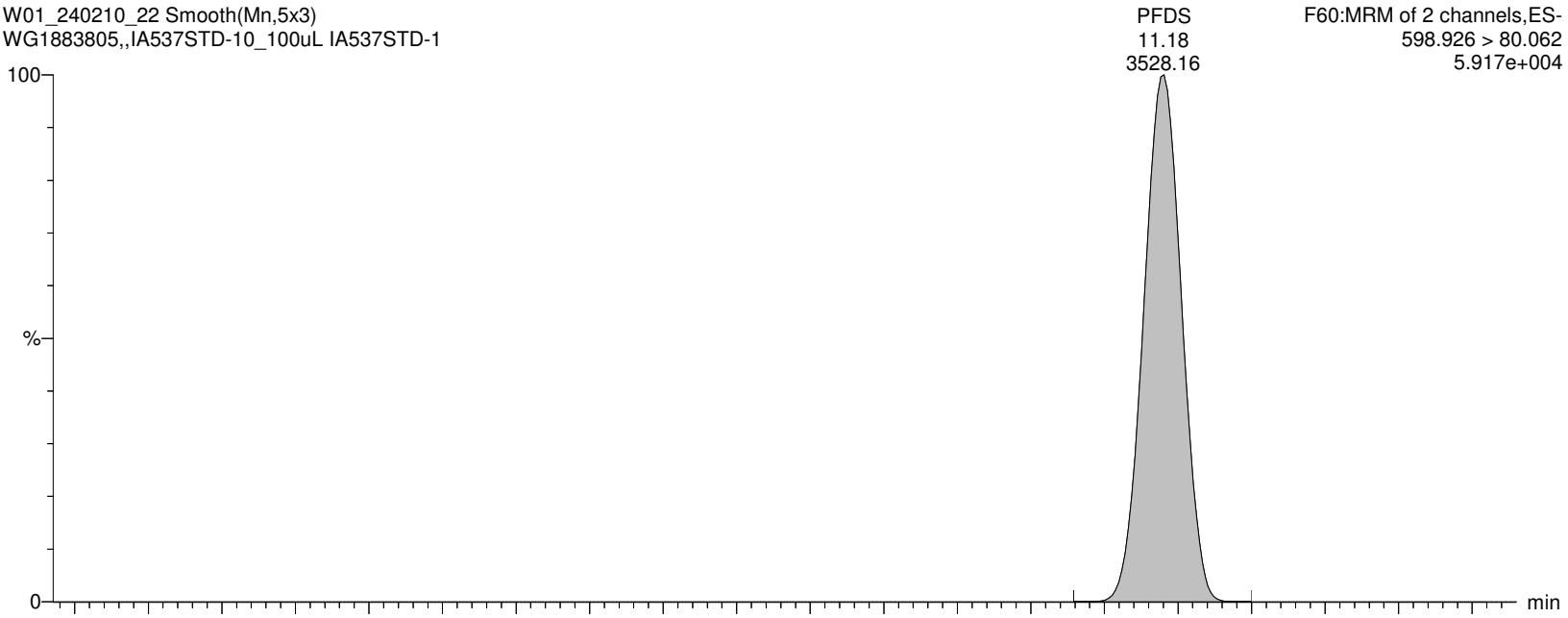

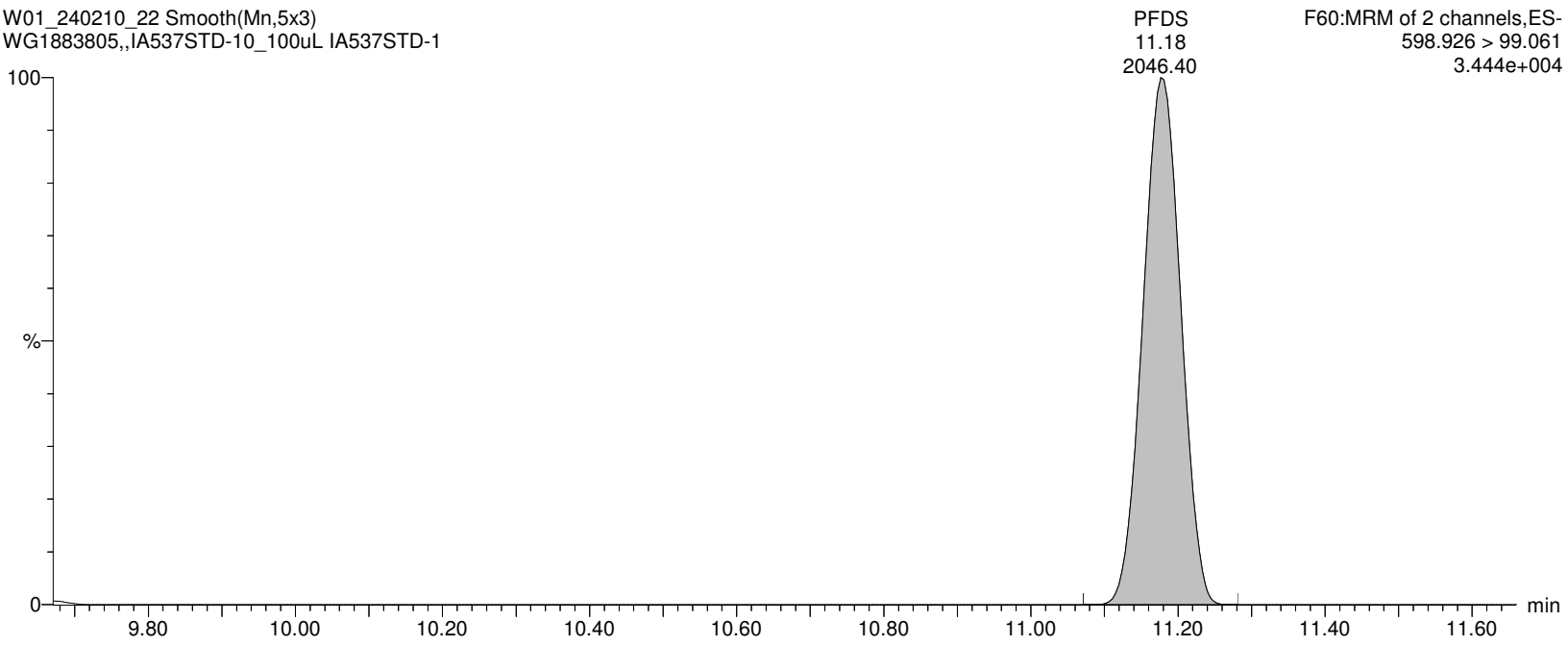

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
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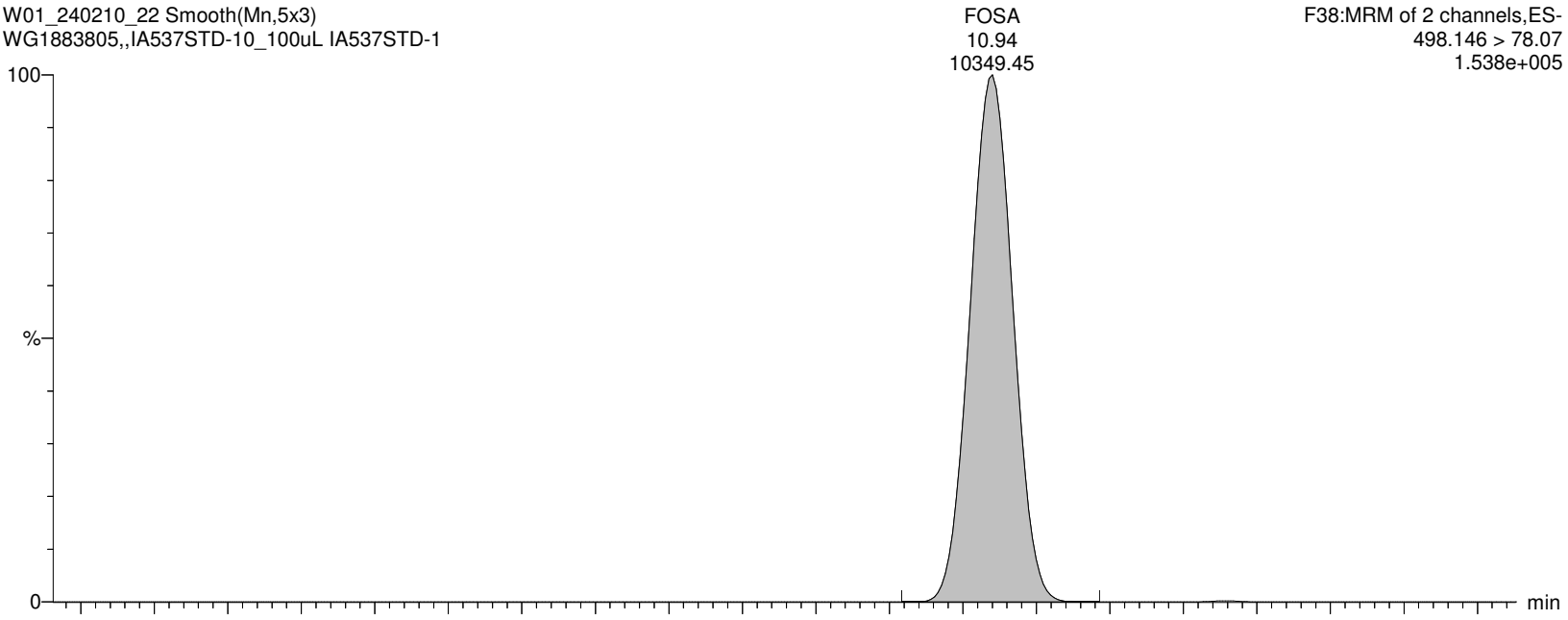

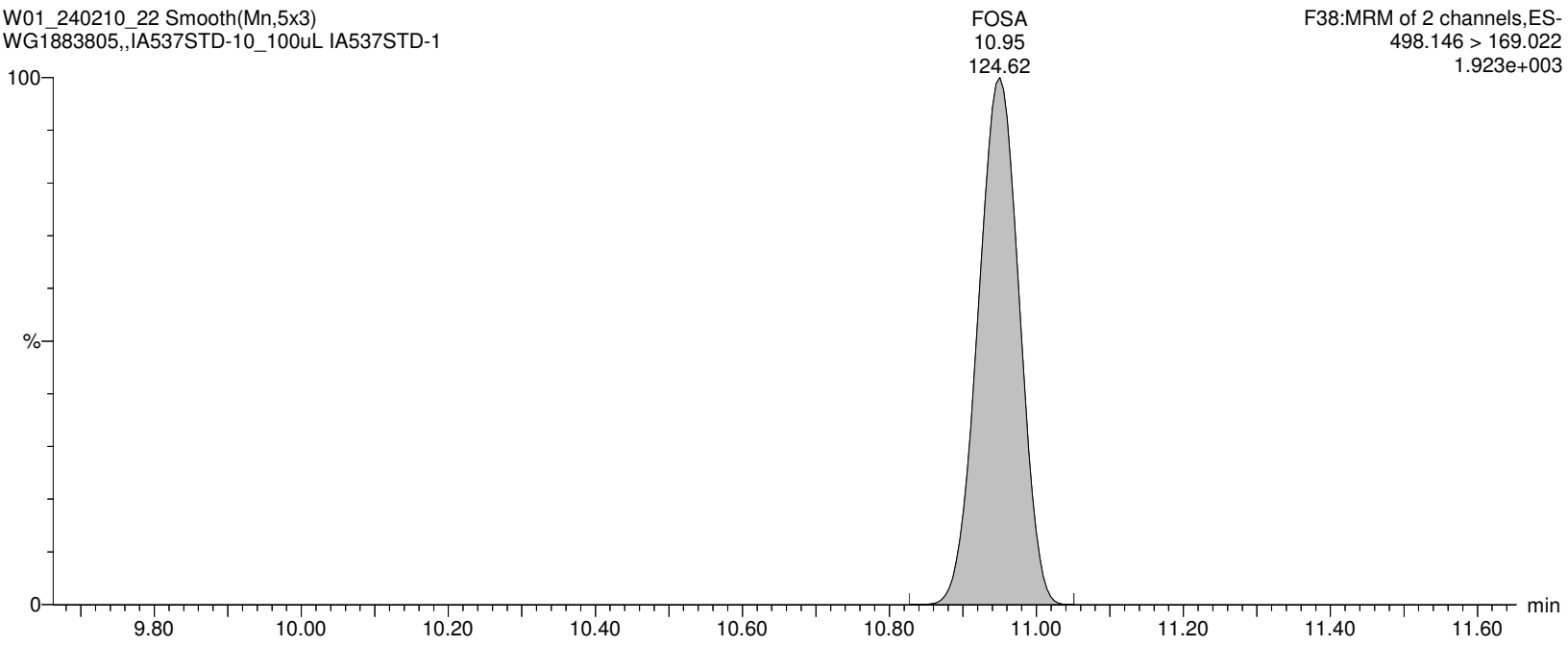

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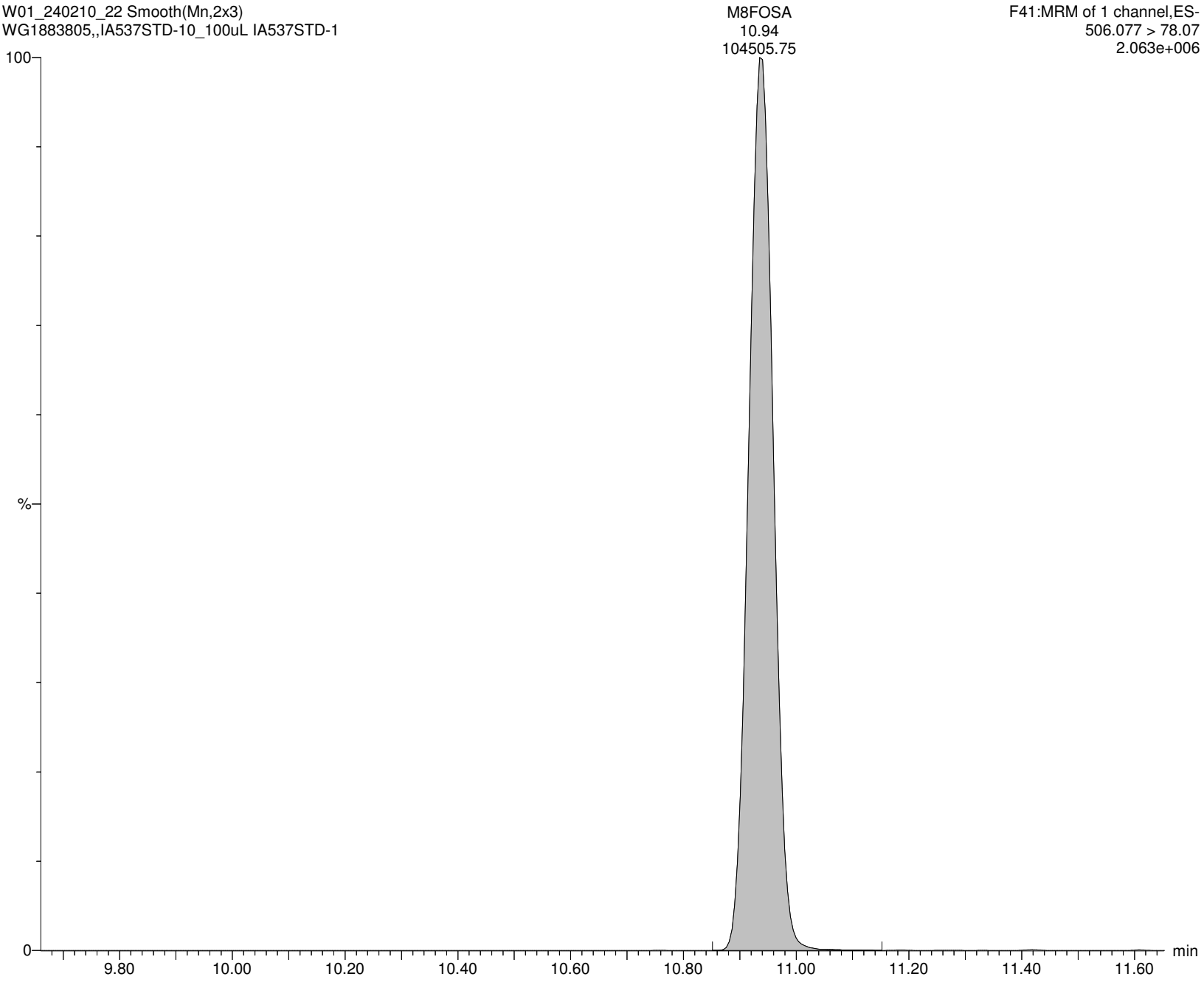

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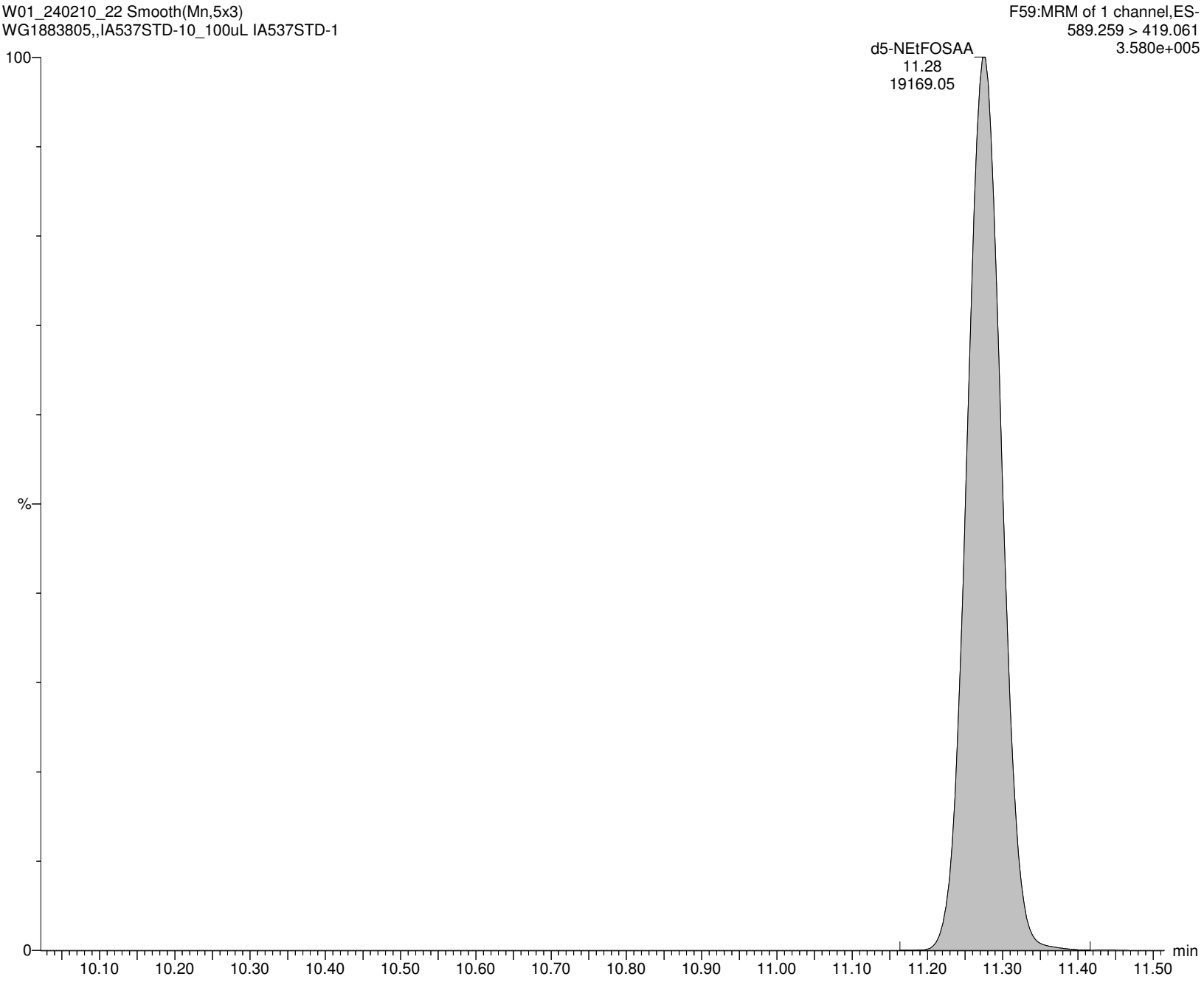

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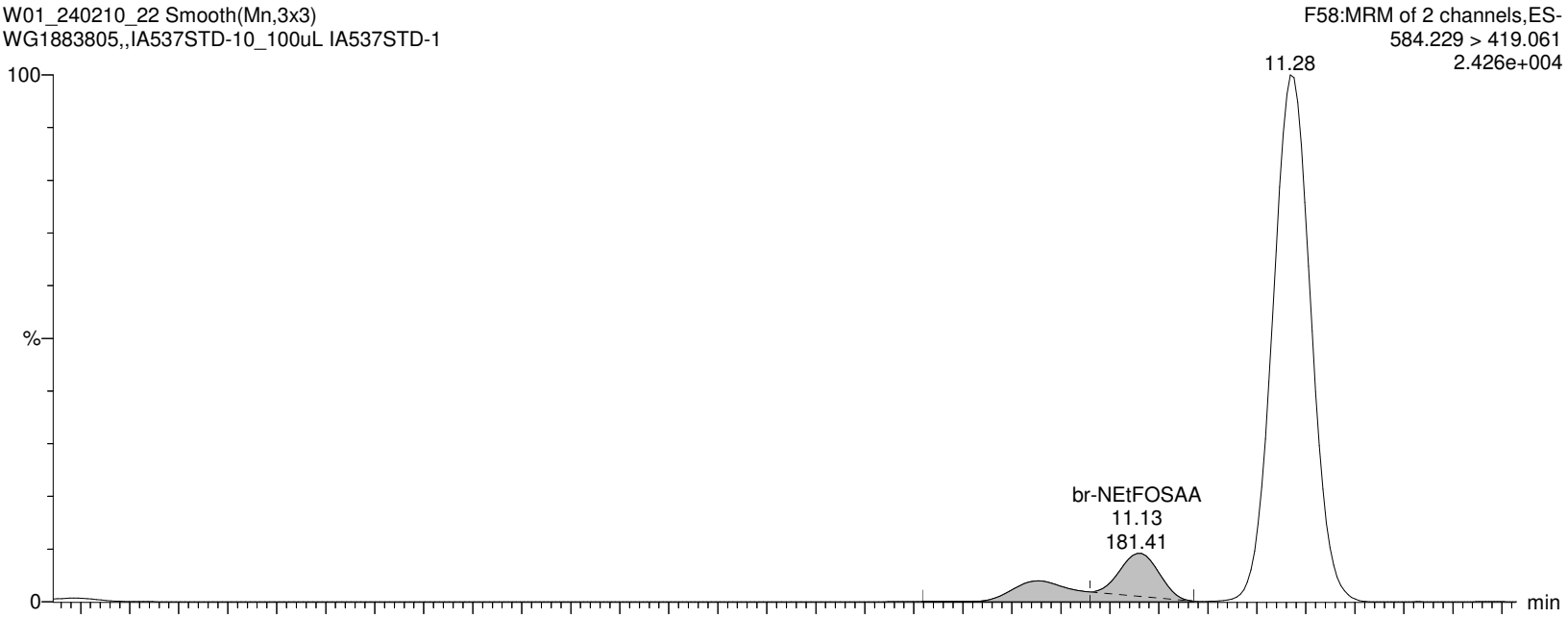

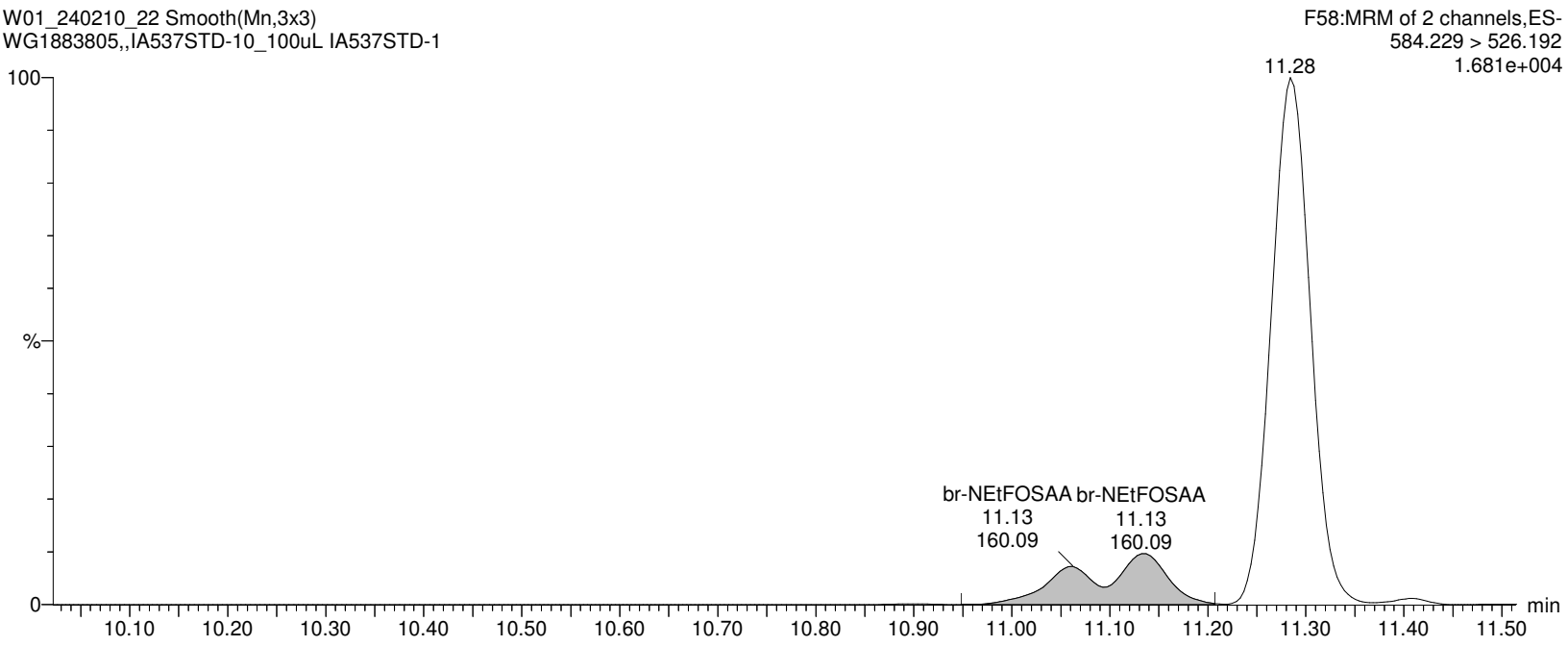

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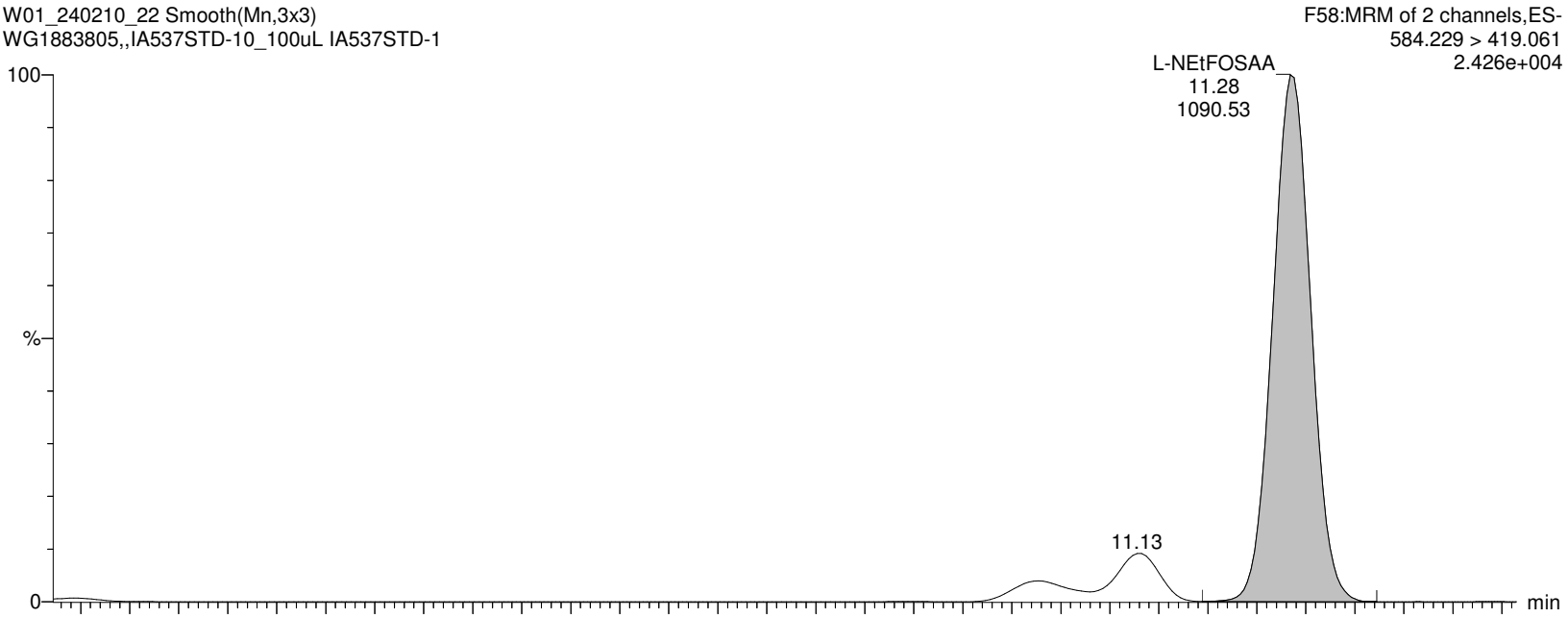

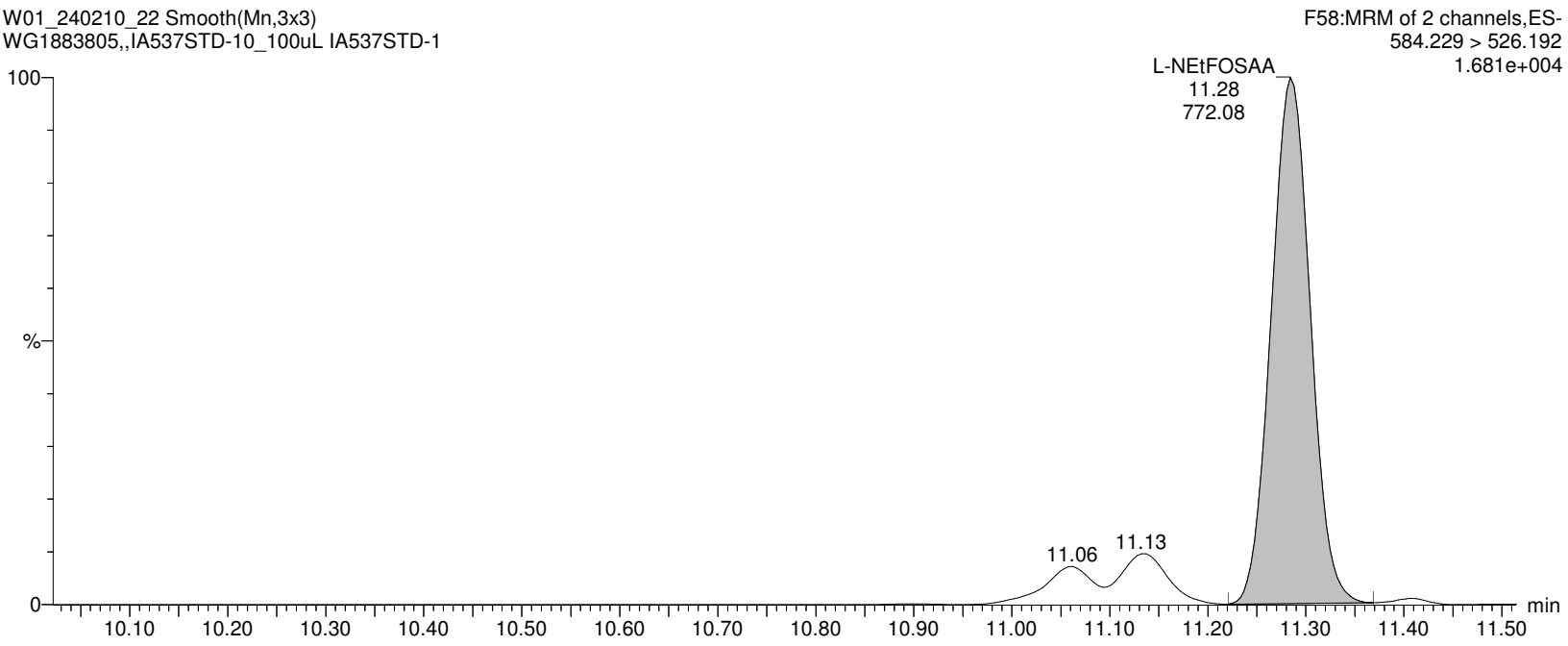

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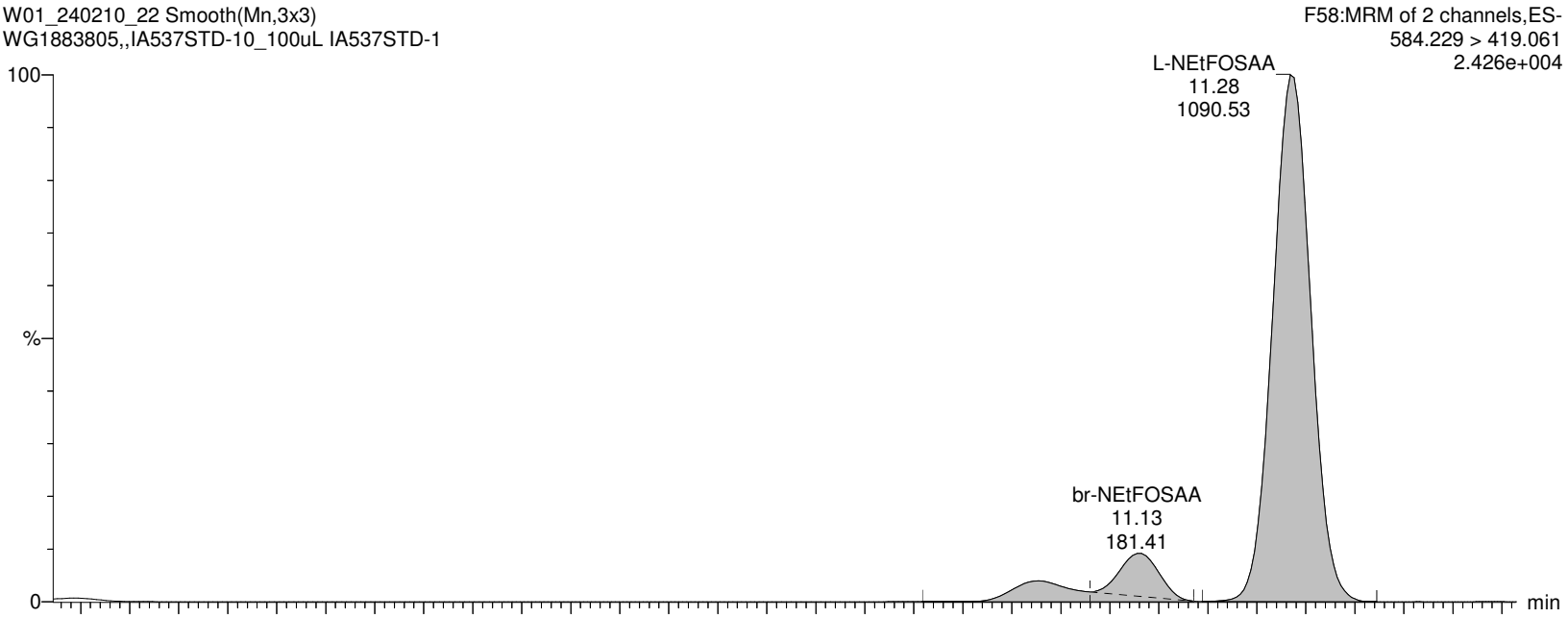

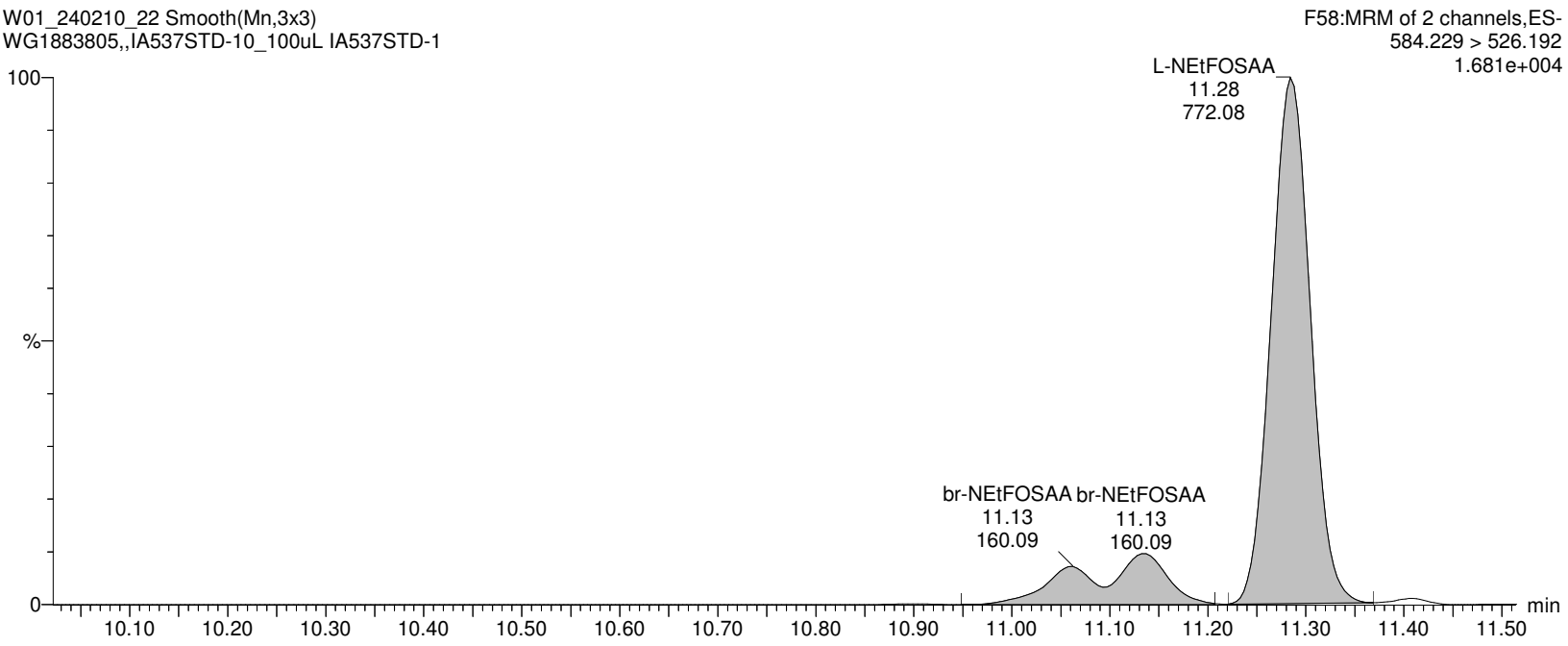

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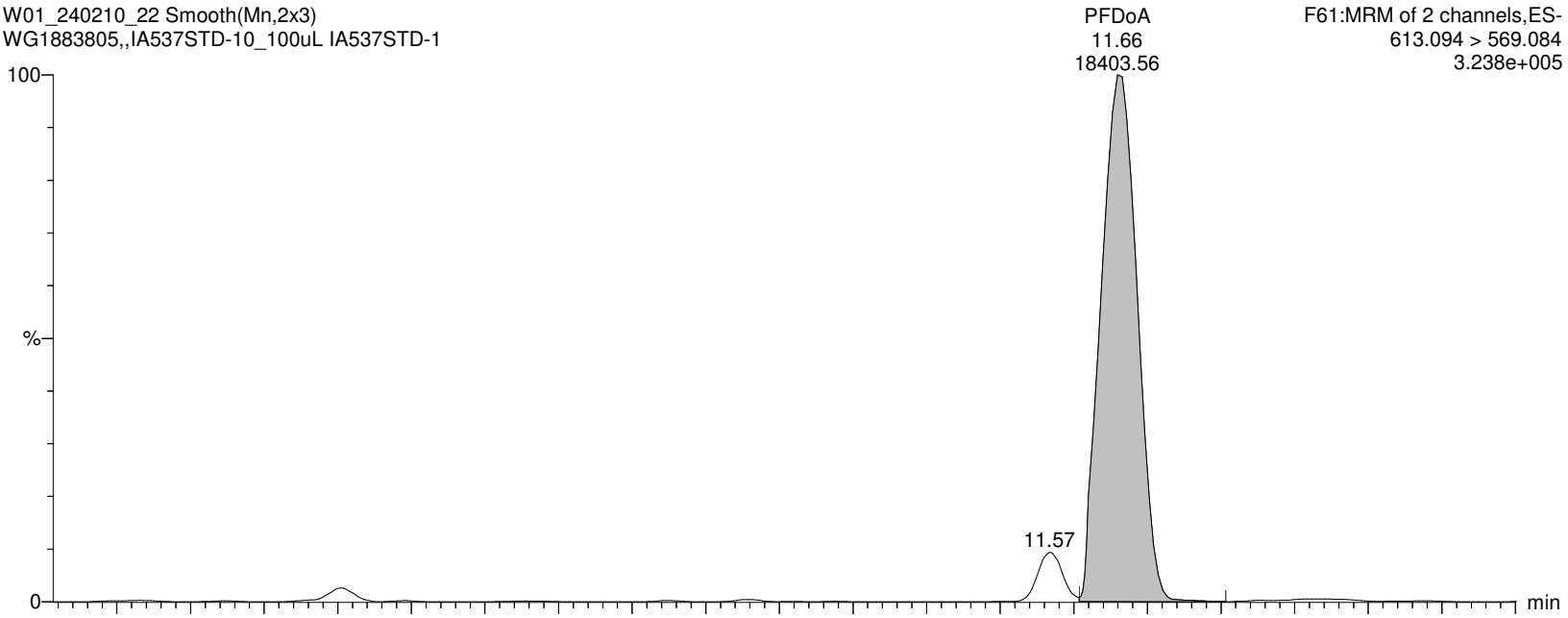

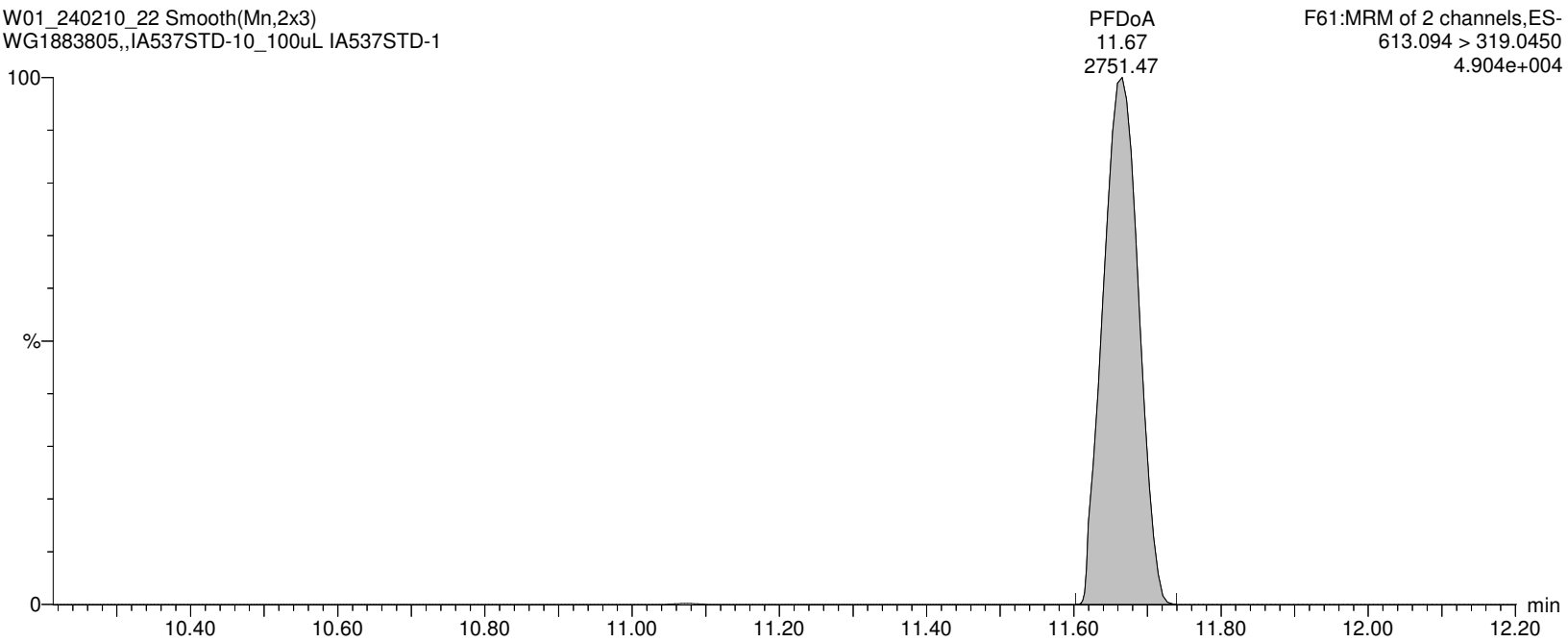

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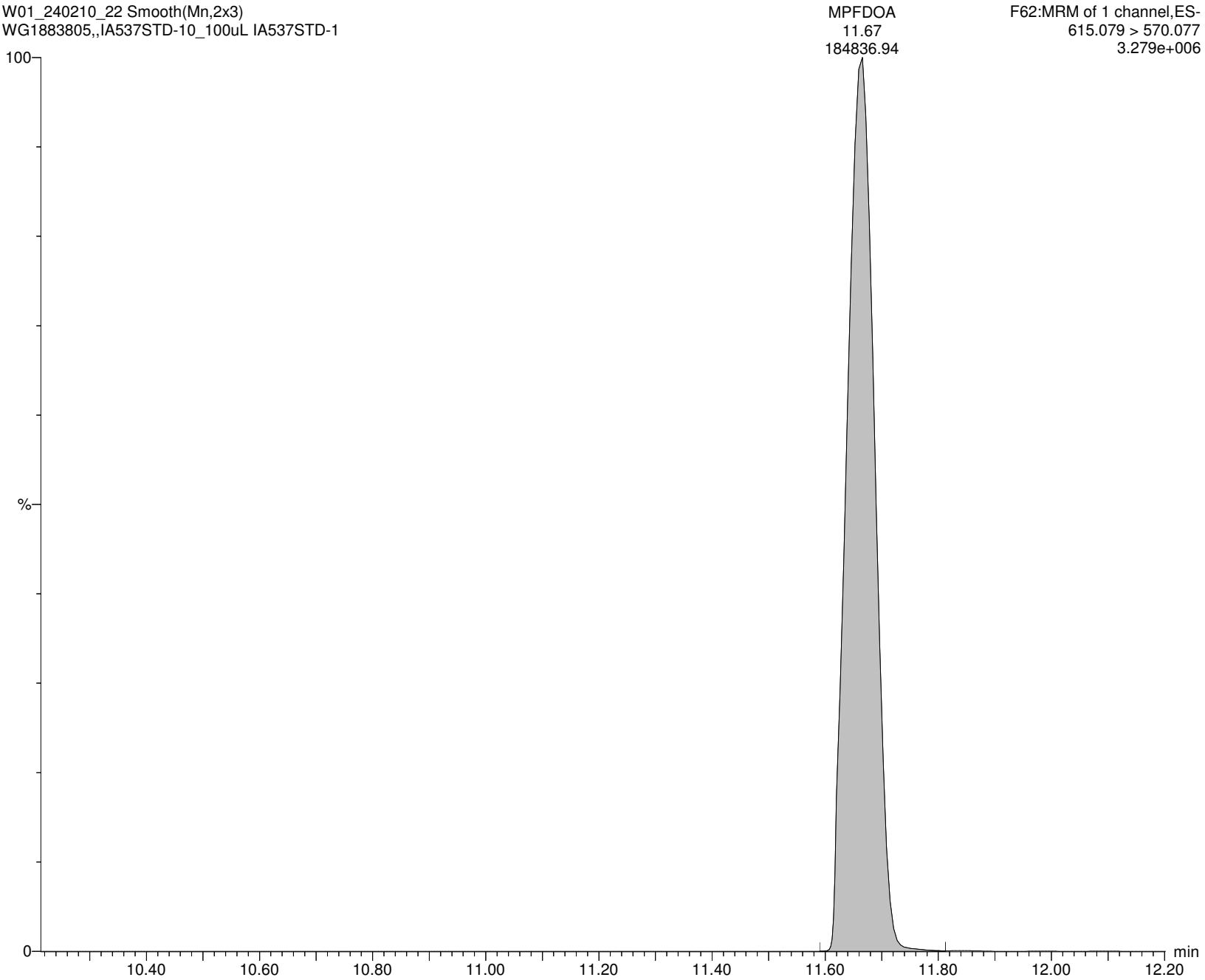

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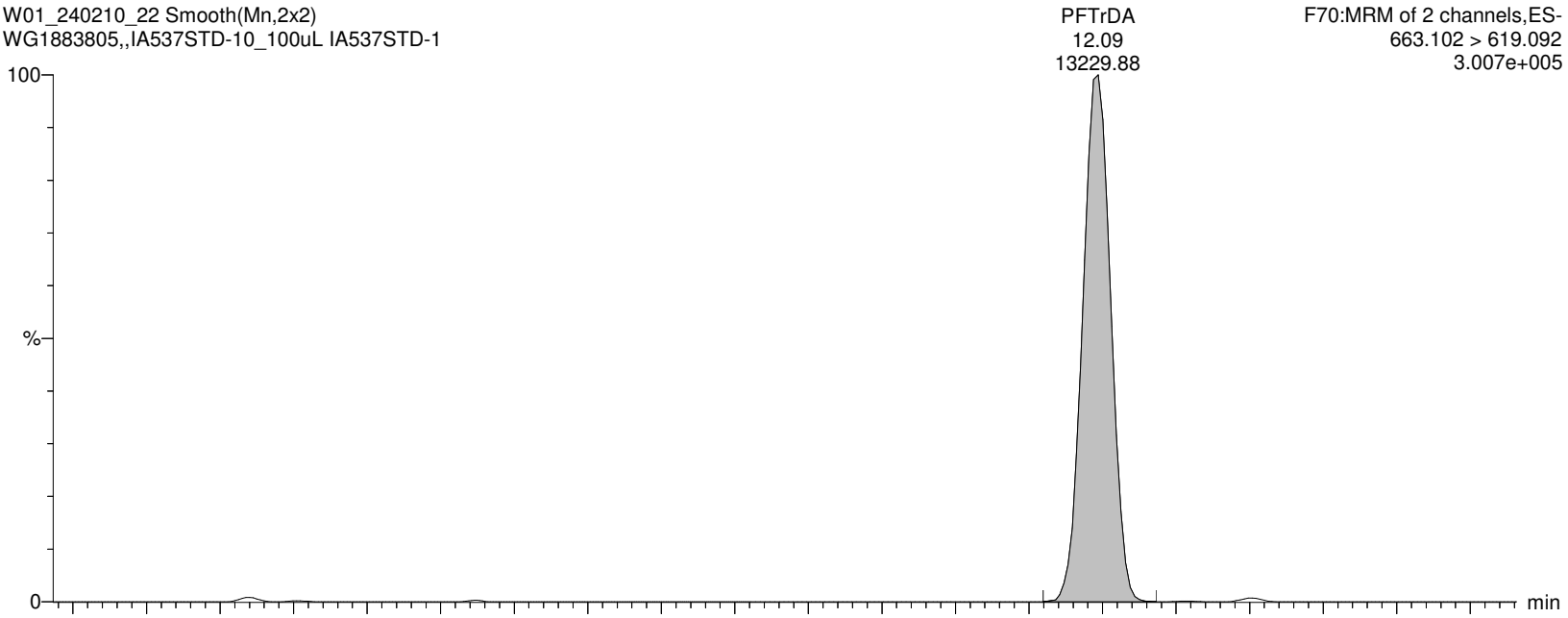

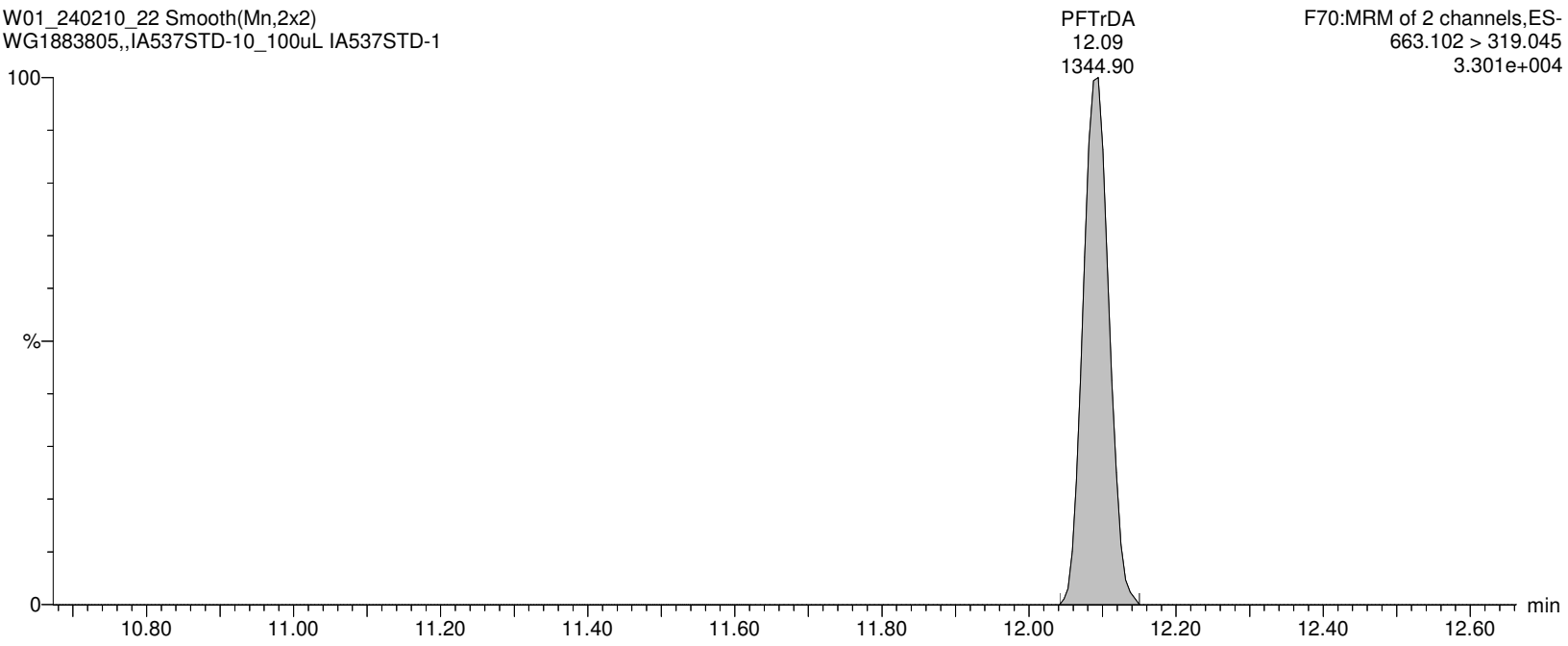

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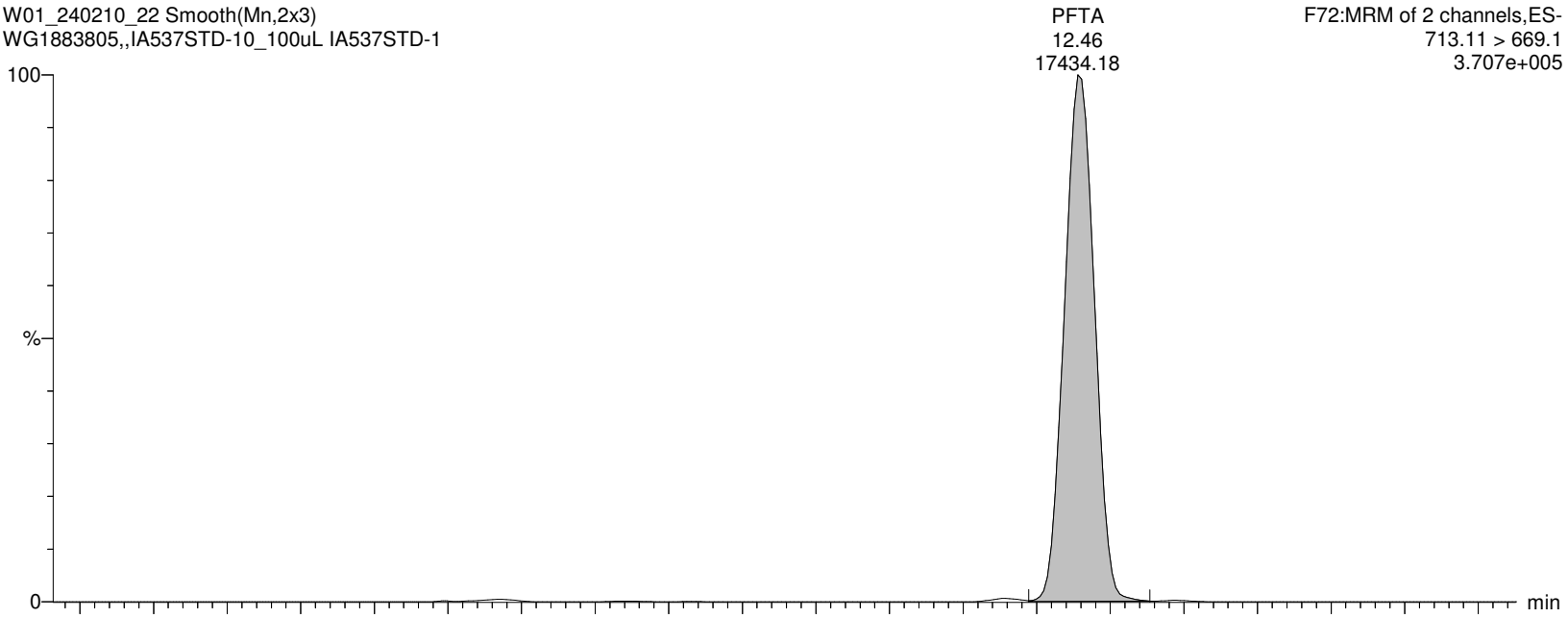

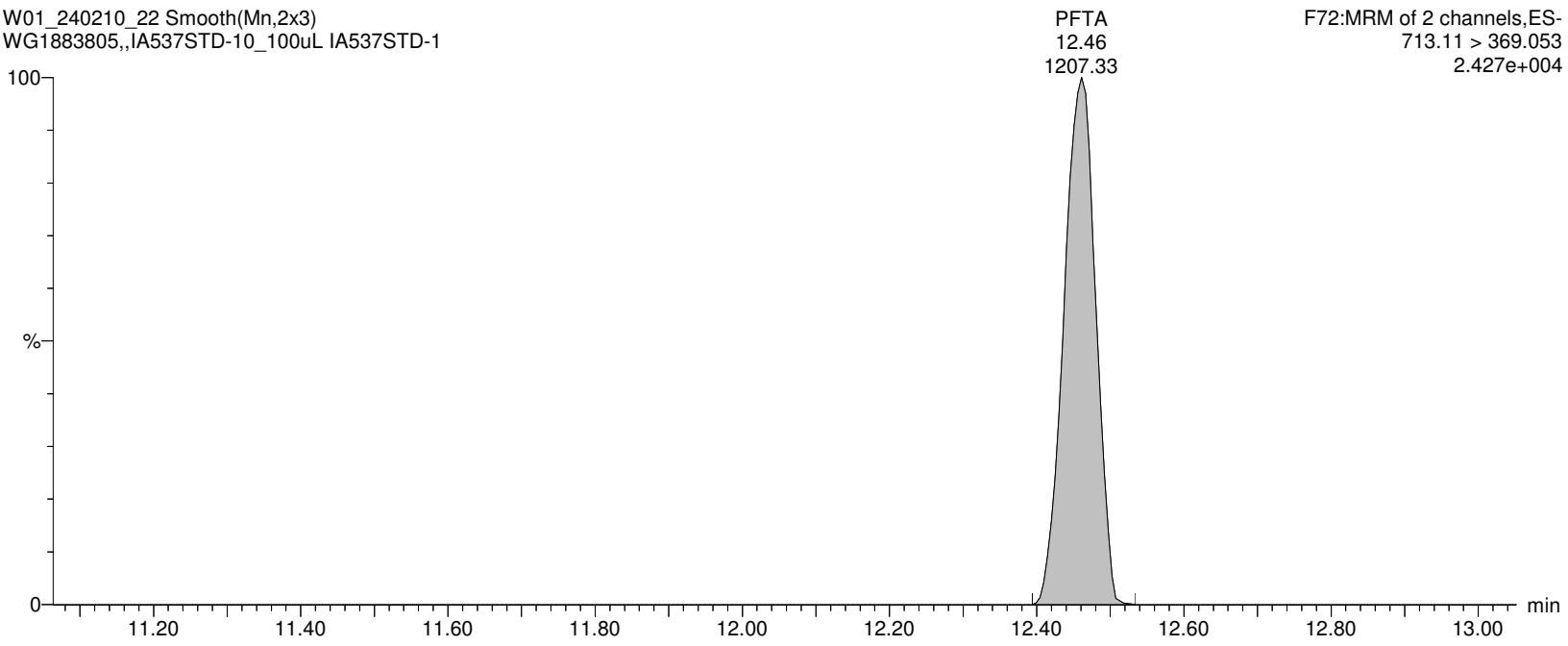

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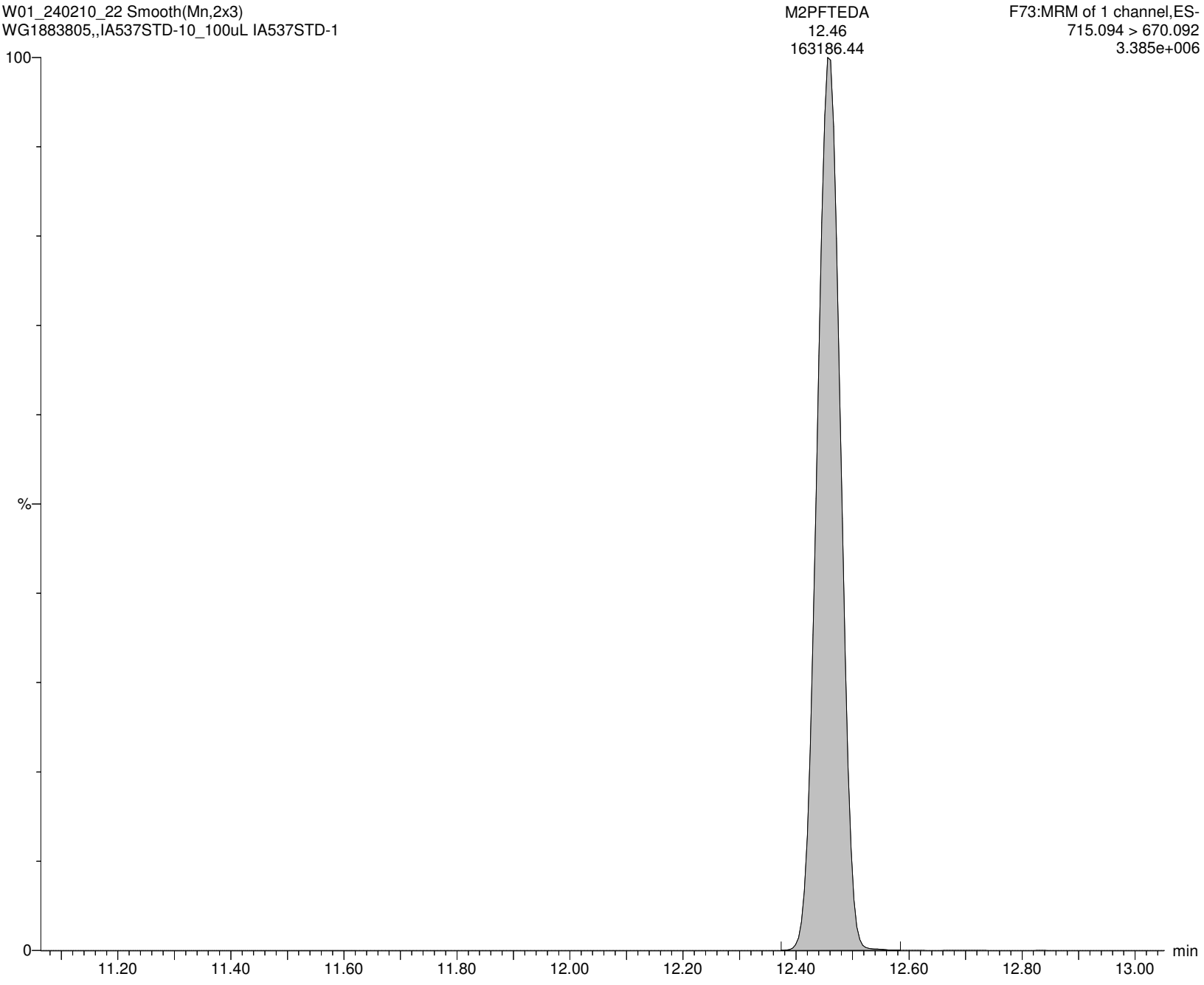

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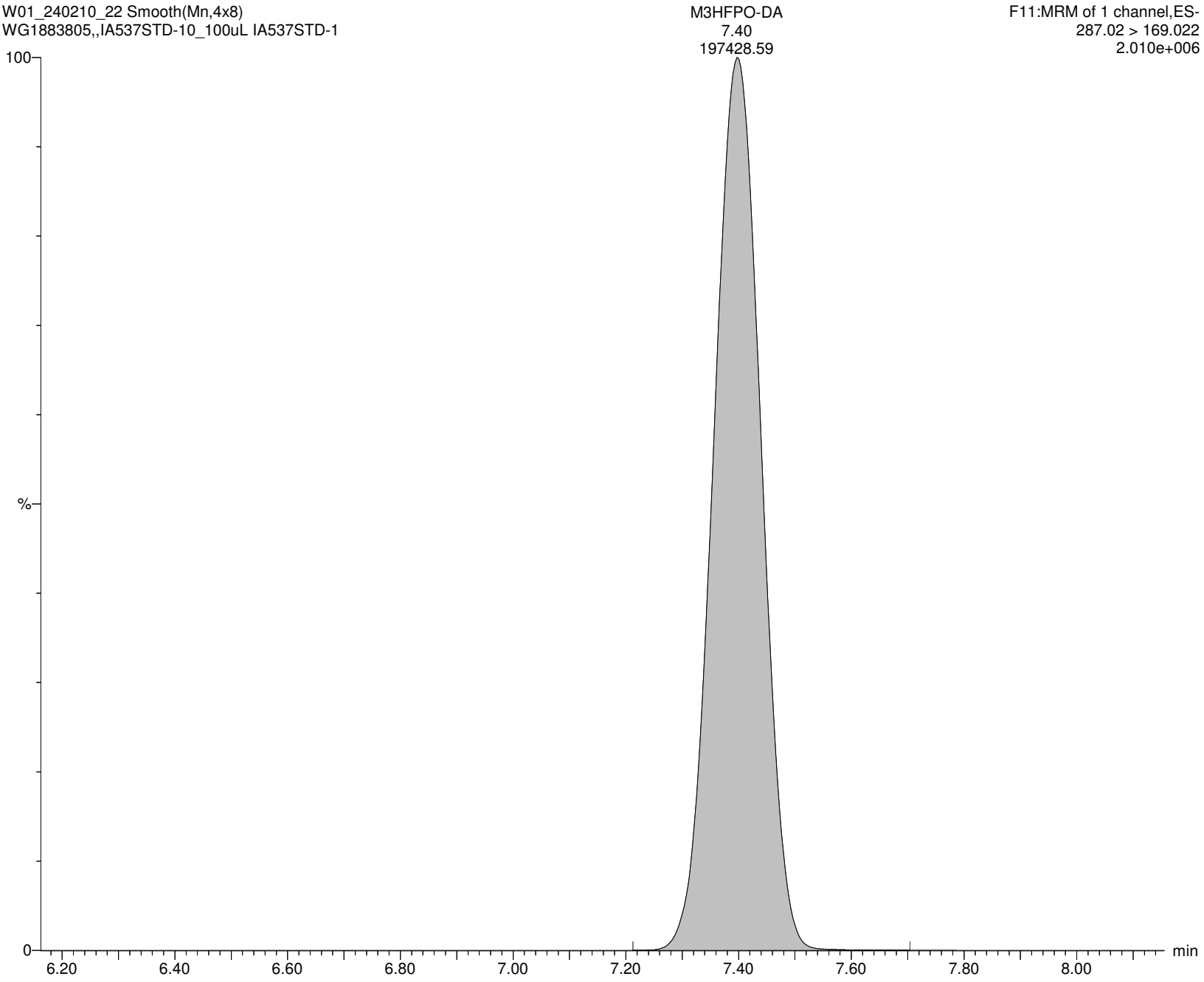

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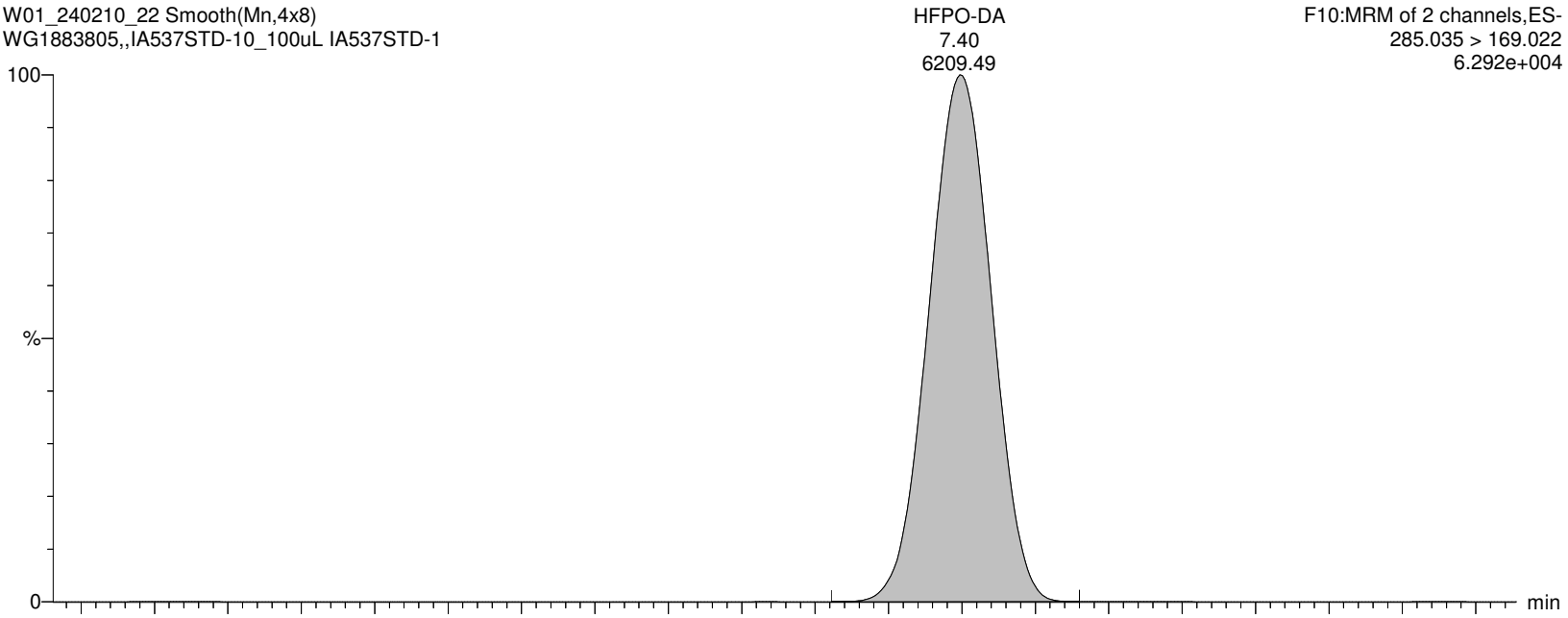

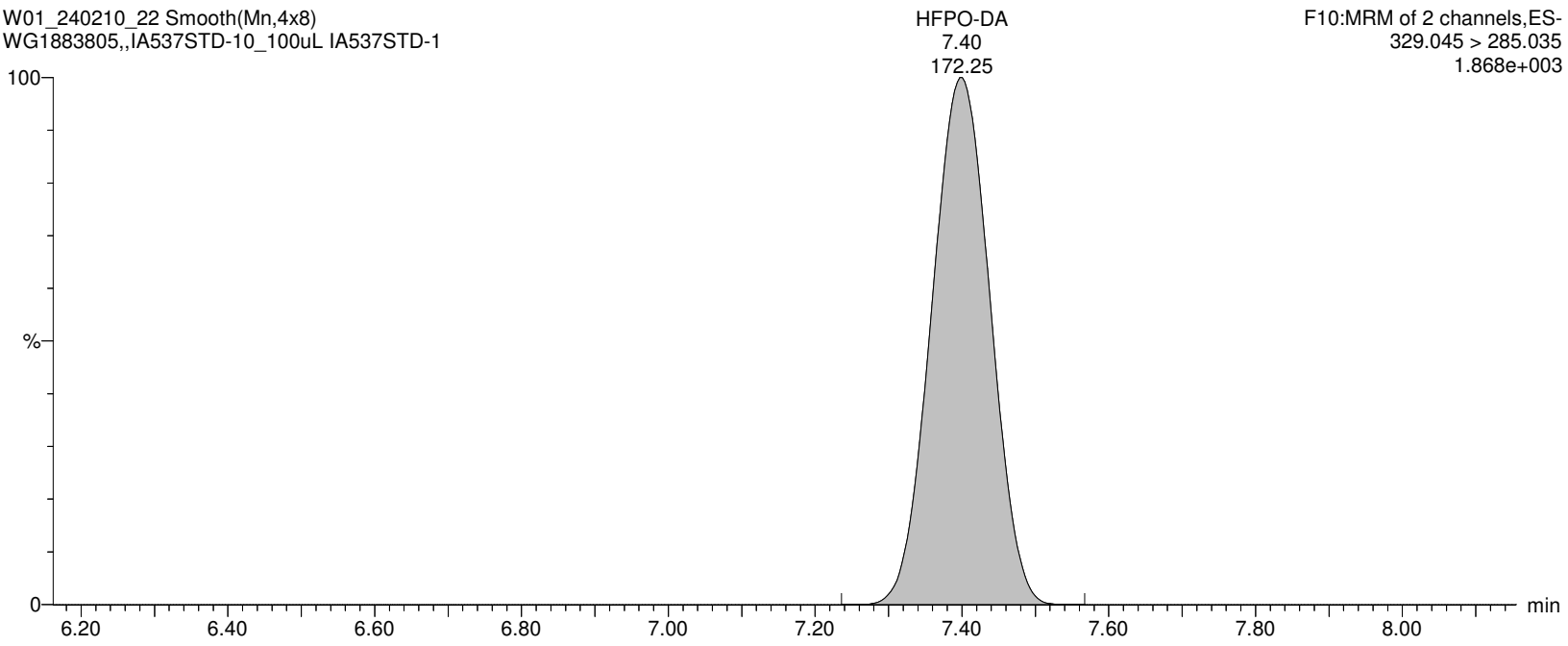

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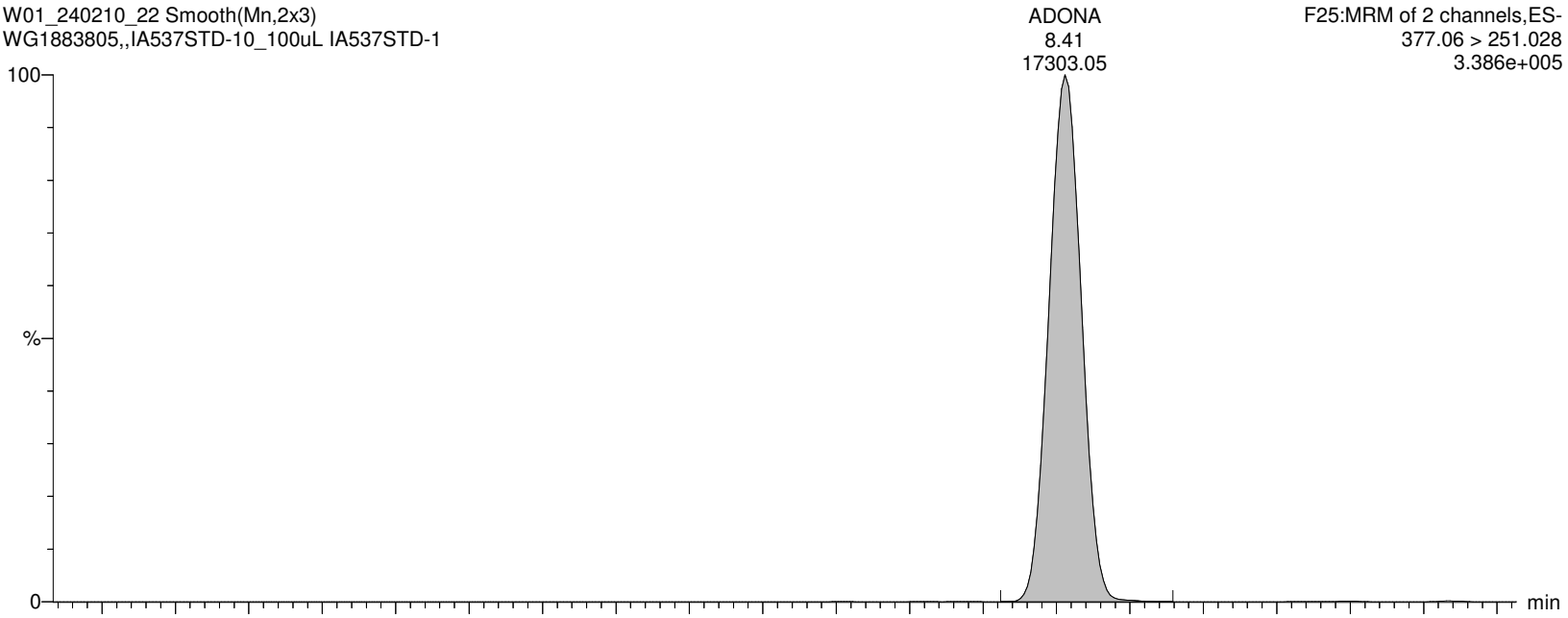

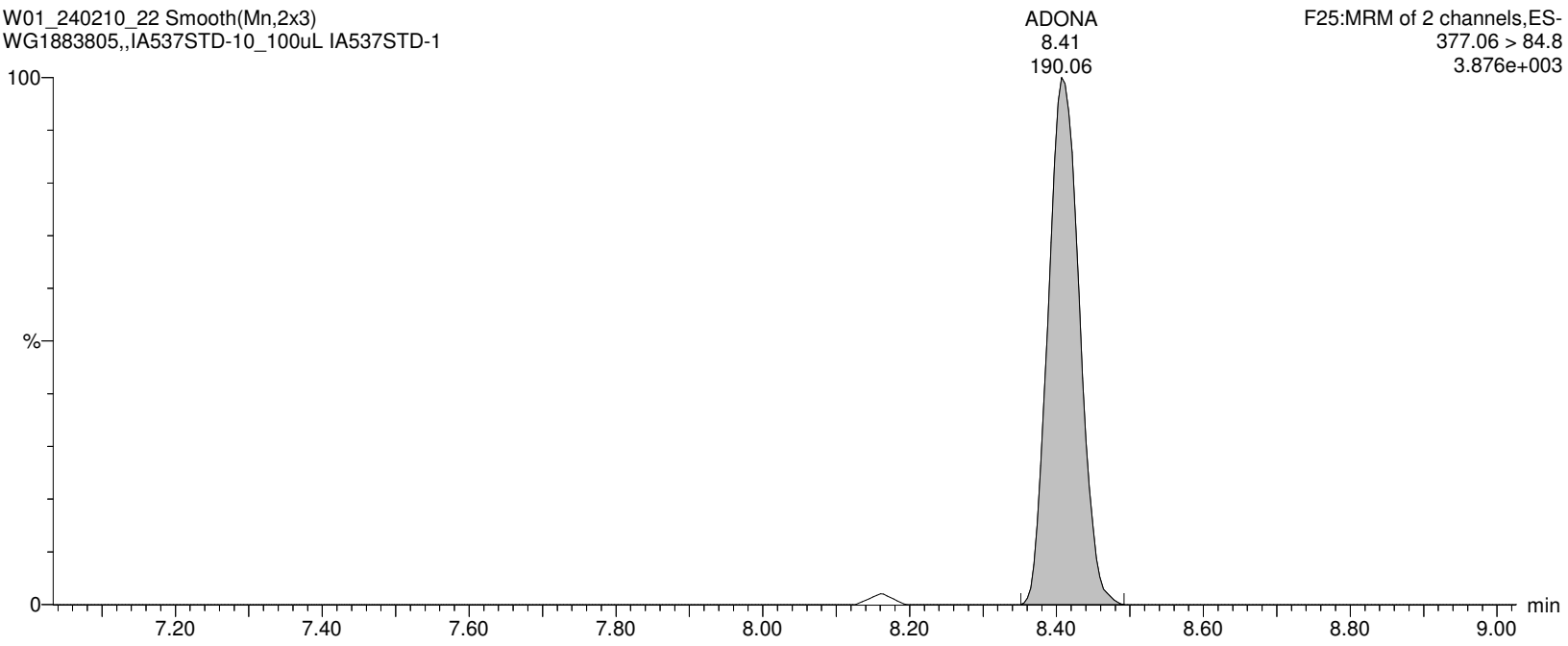

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:10 Eastern Standard Time

Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
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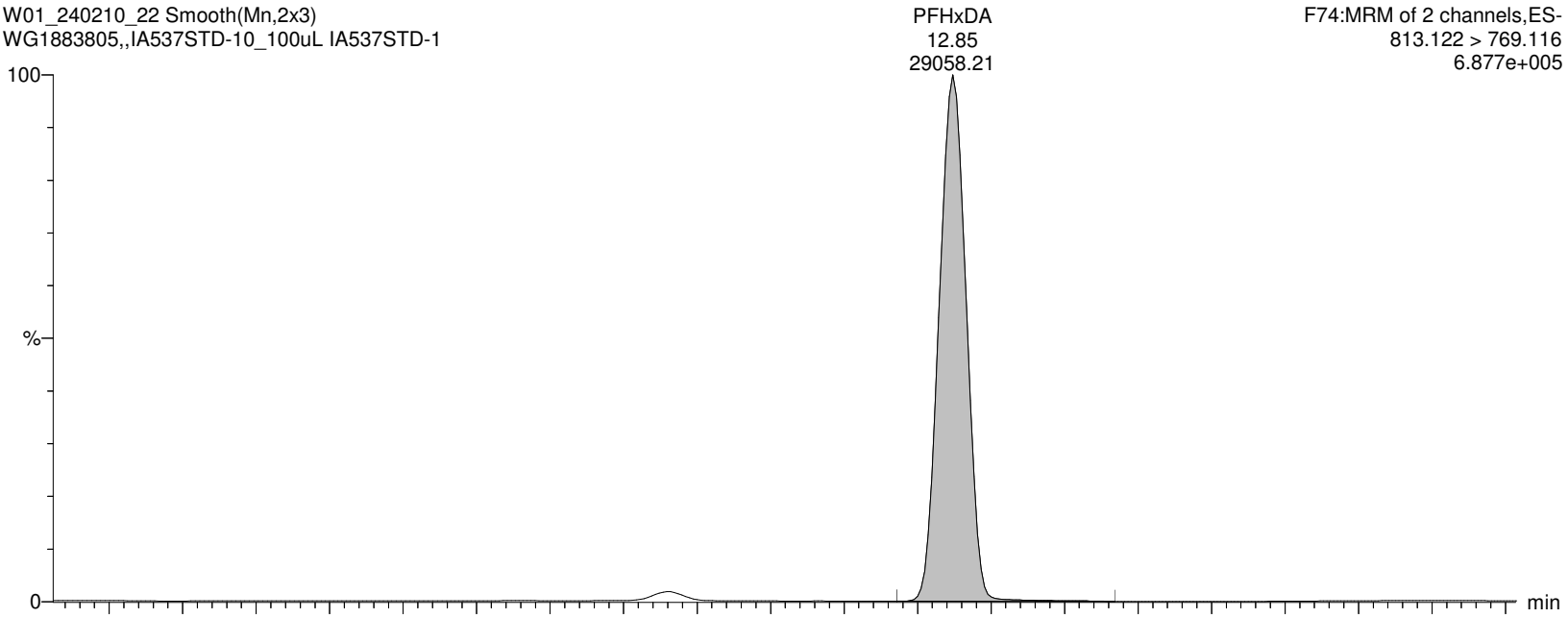

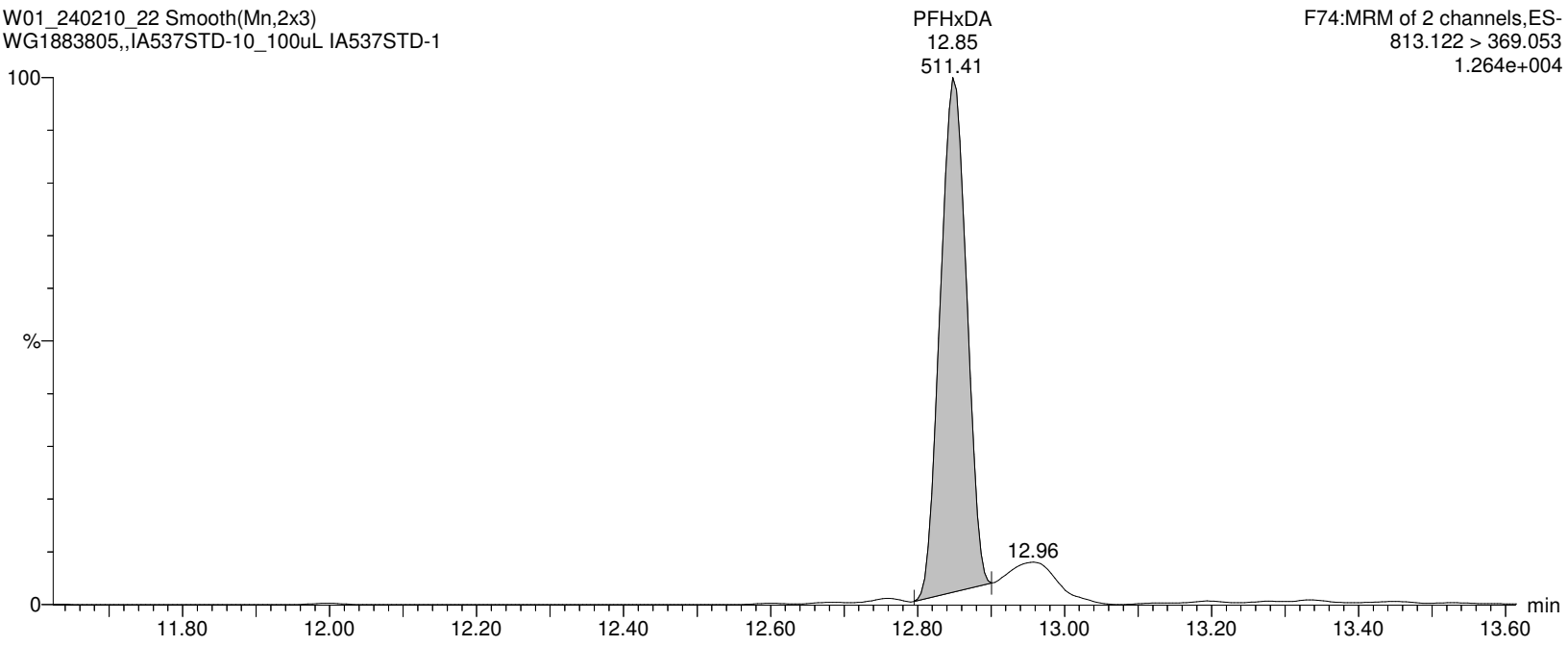

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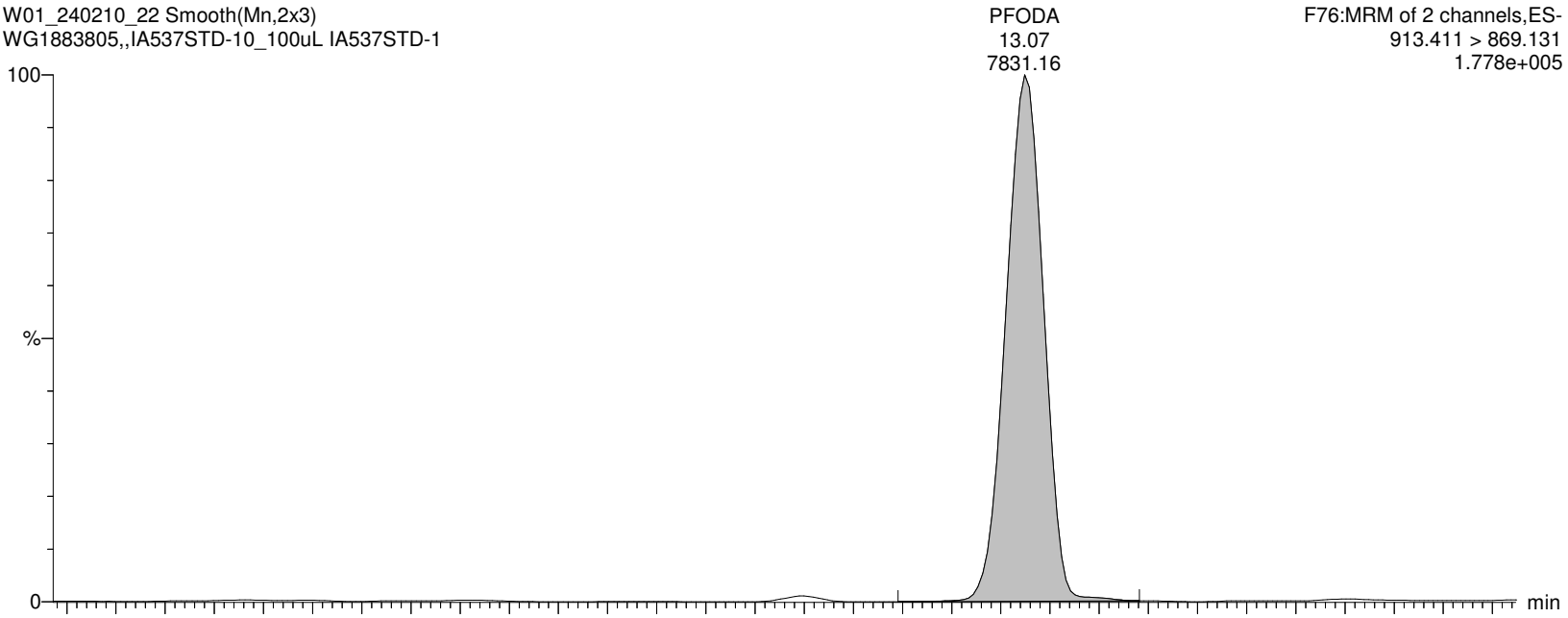

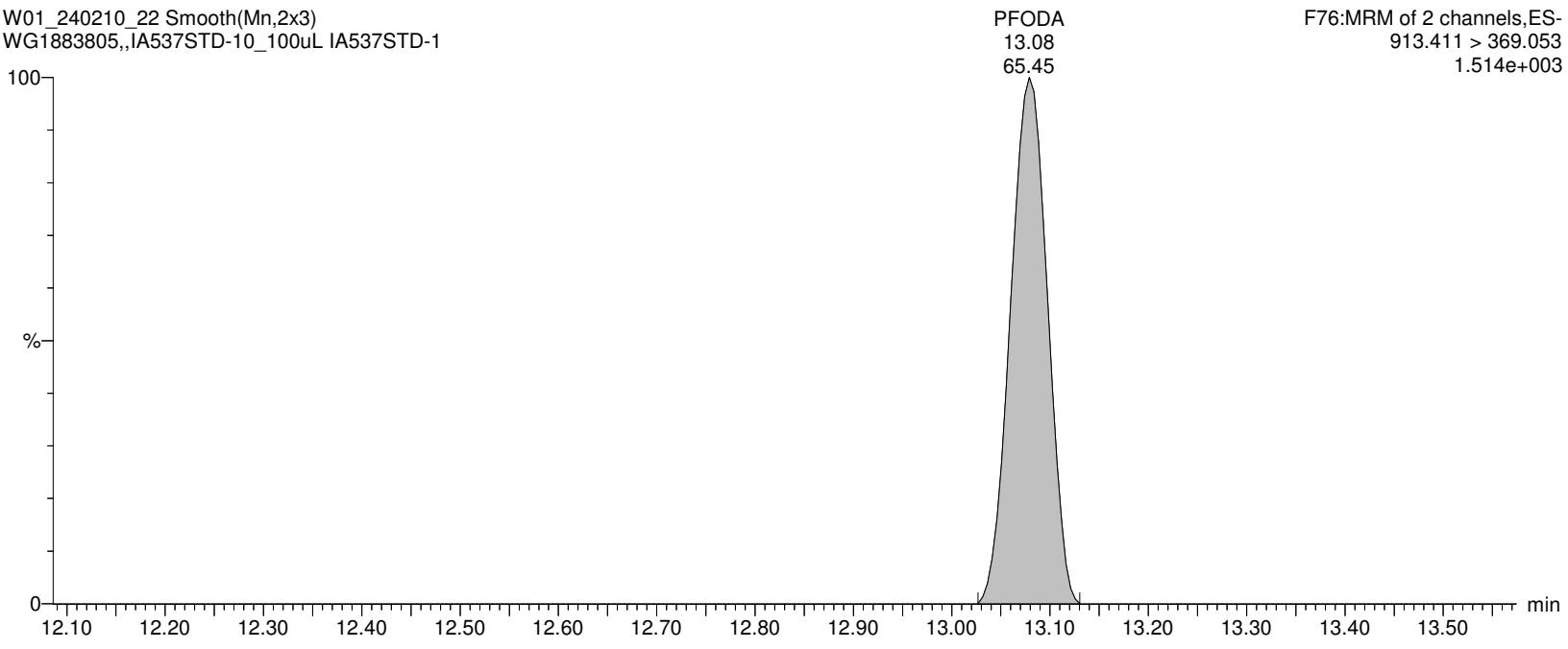

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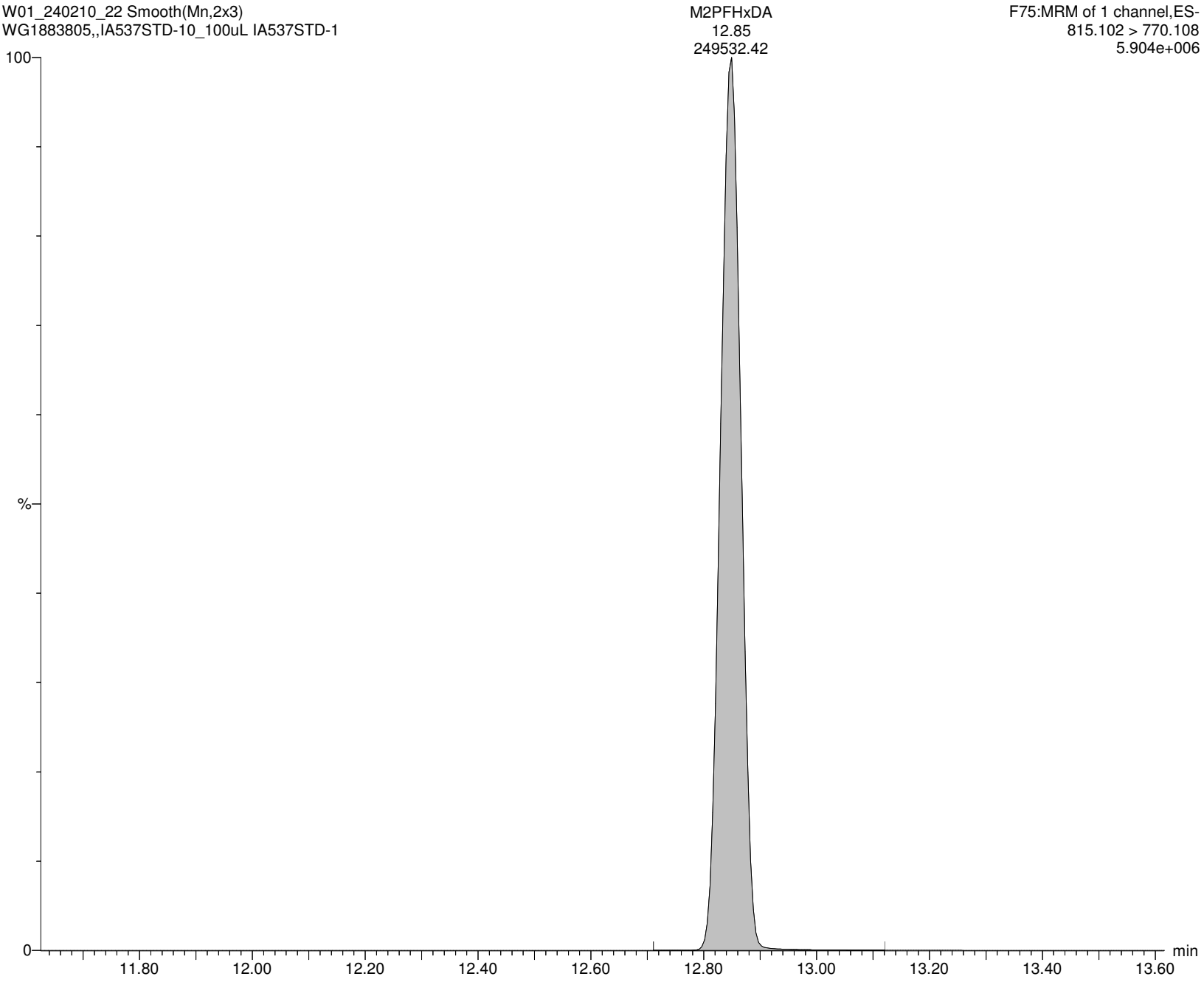

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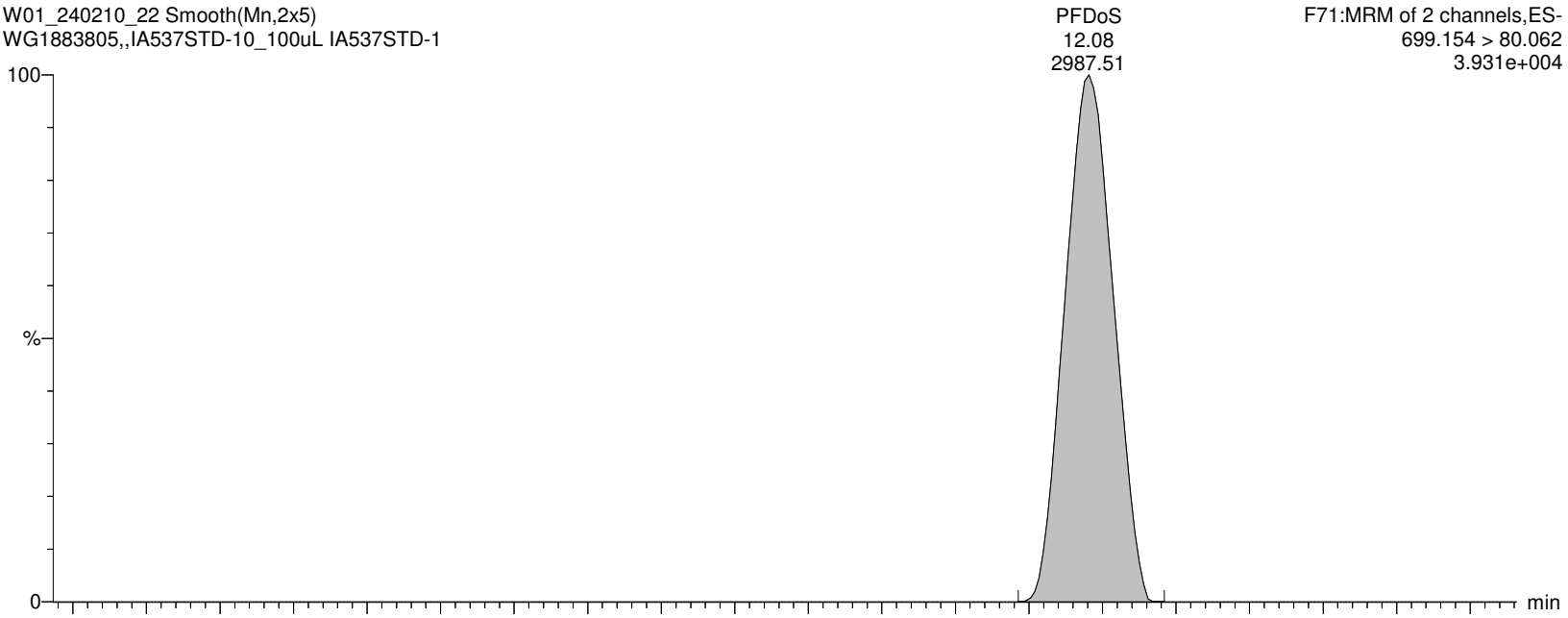

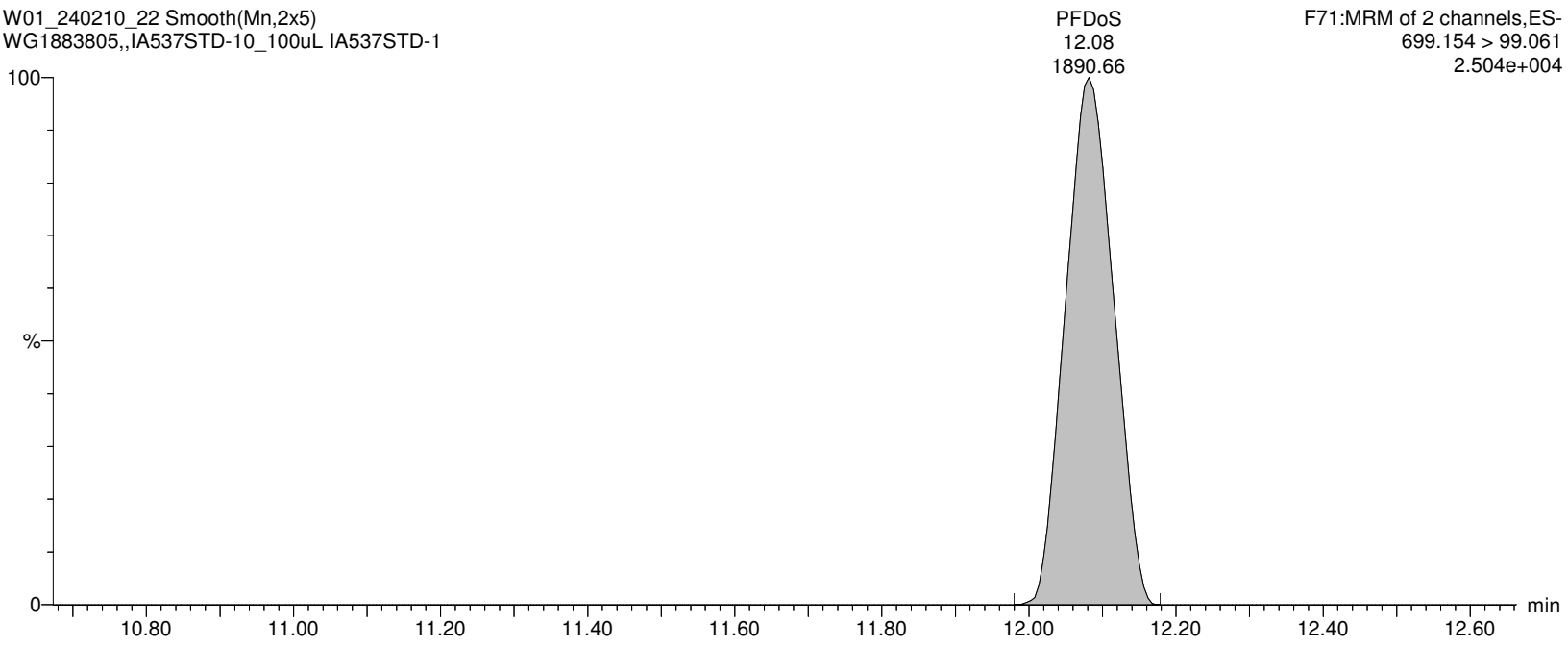

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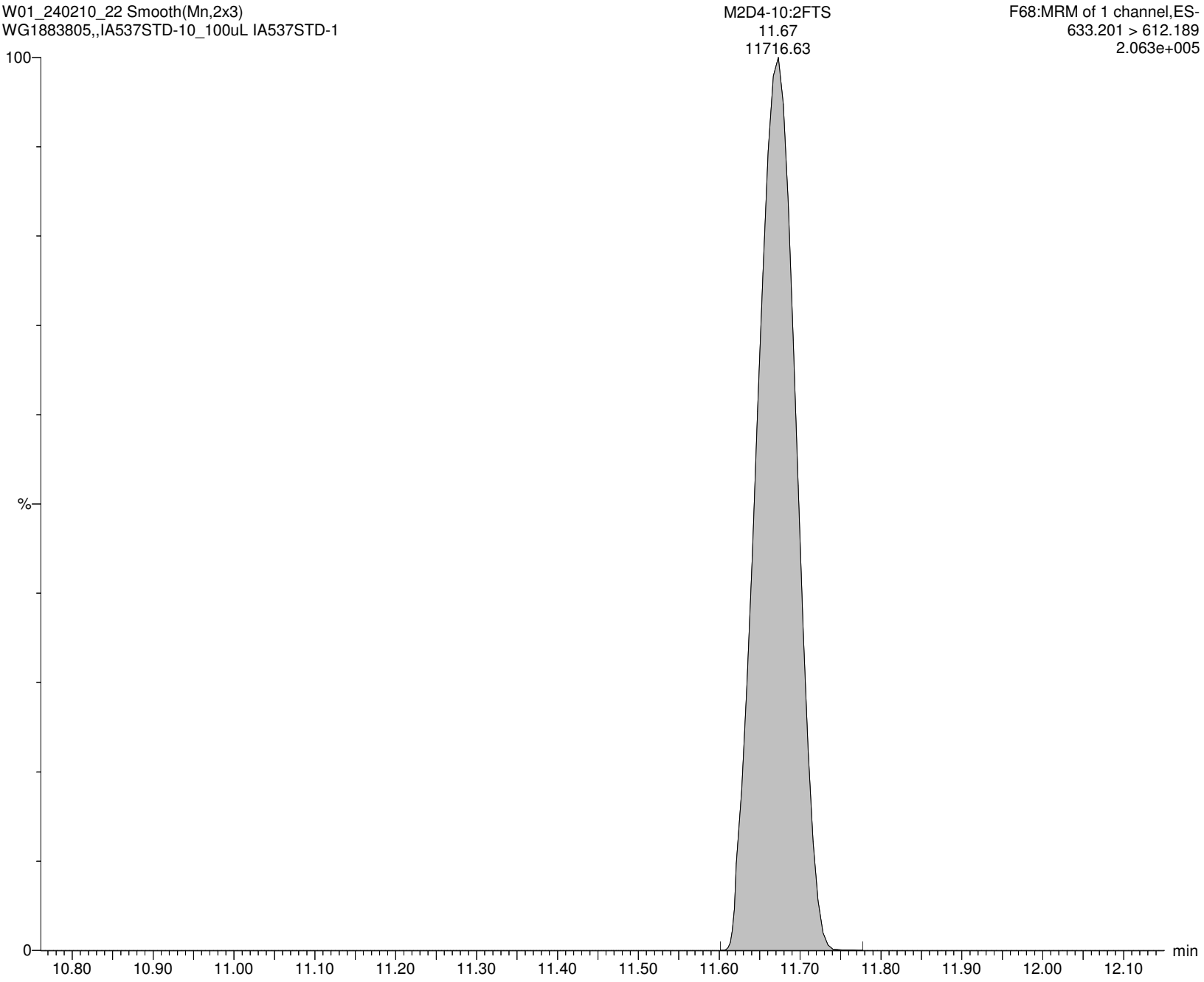

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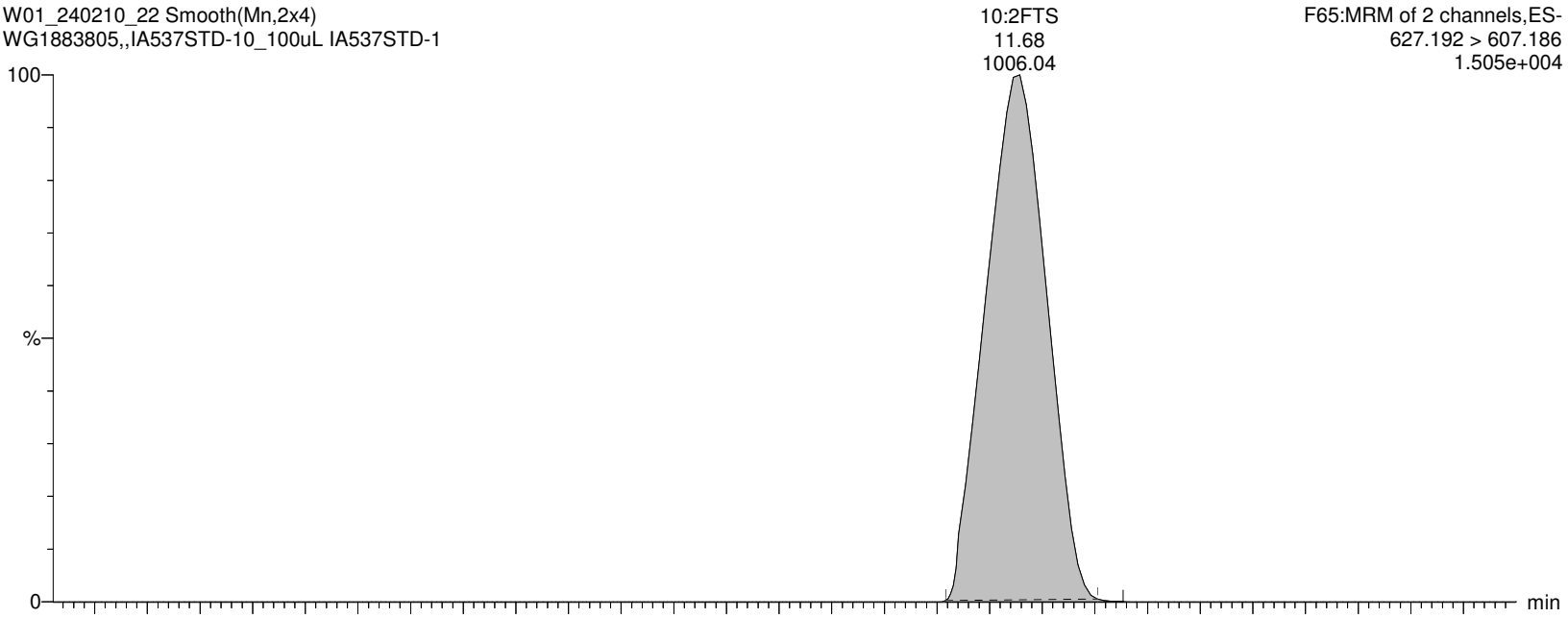

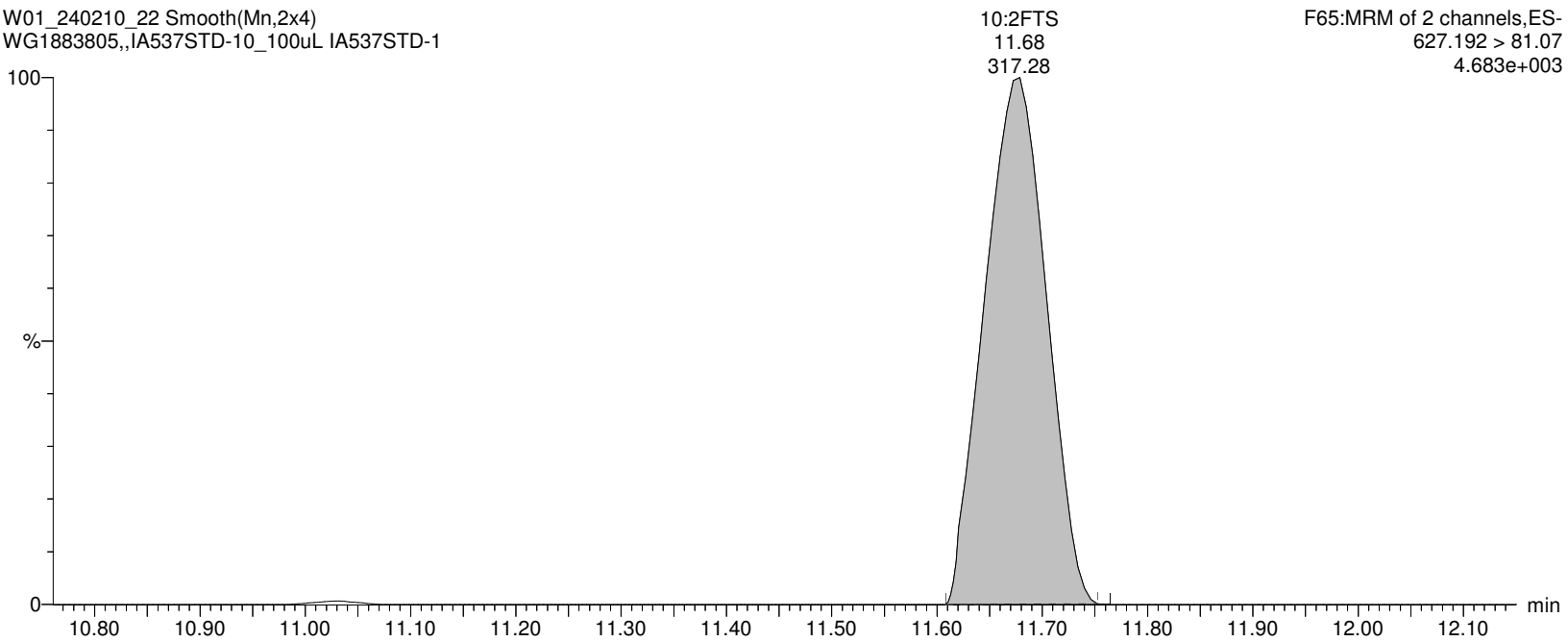

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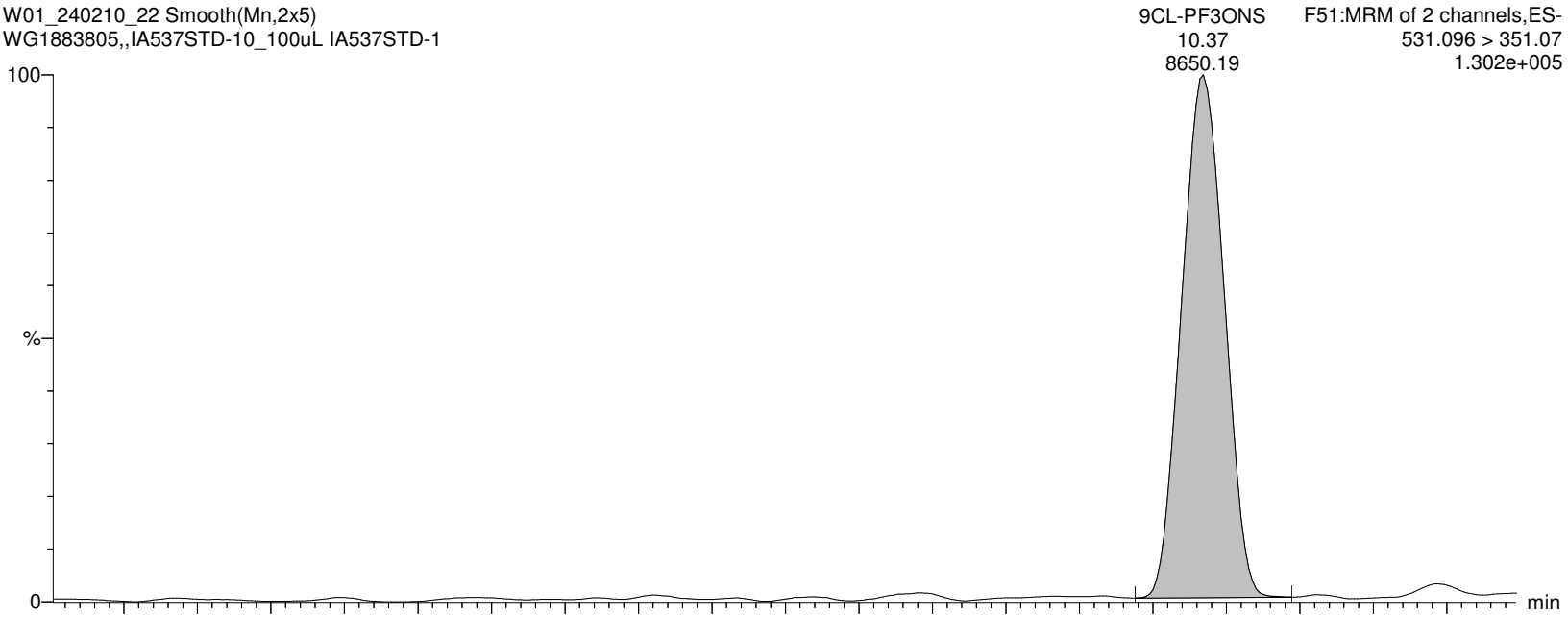

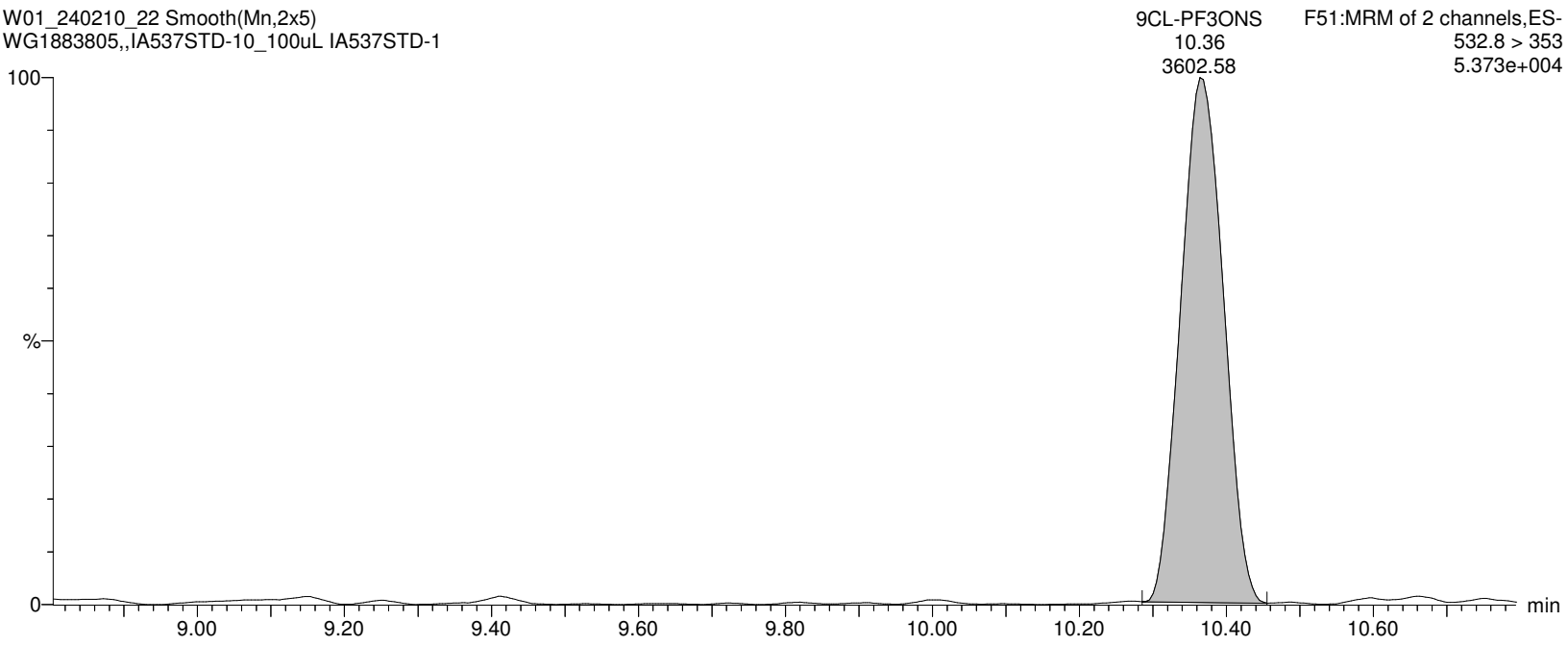

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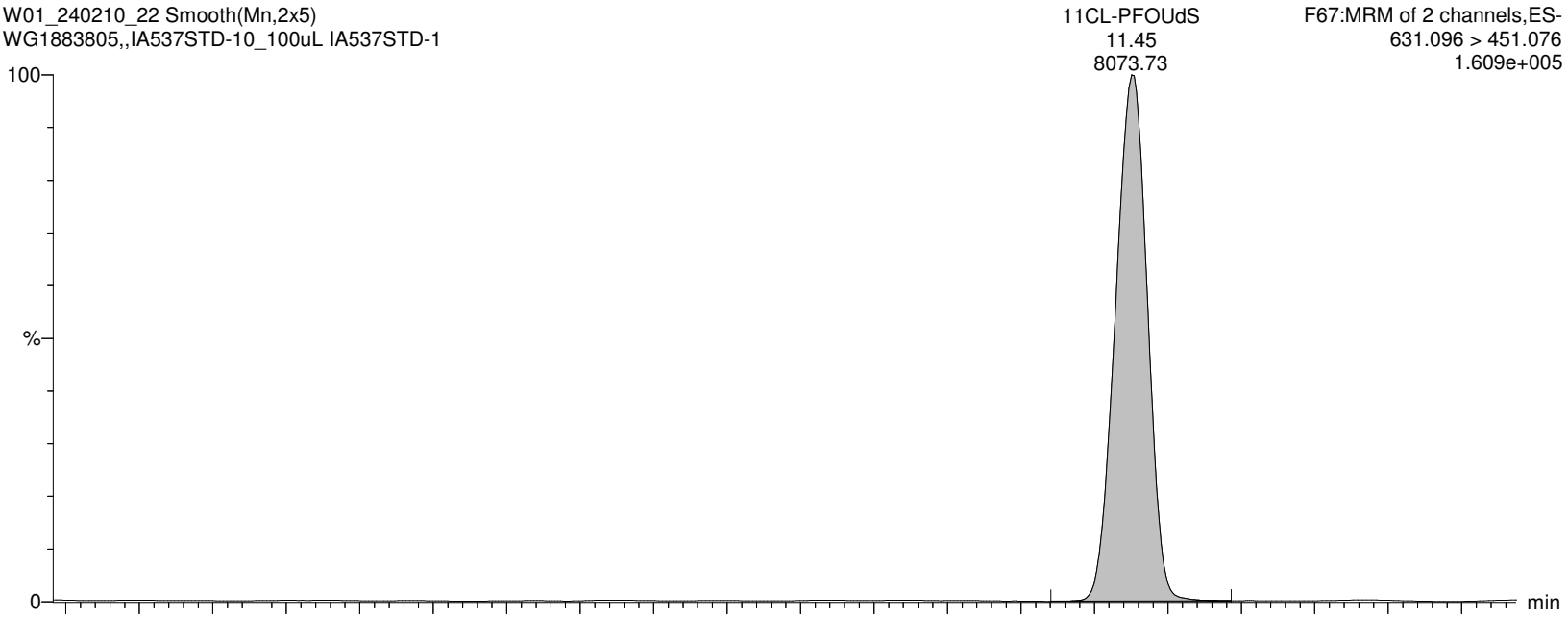

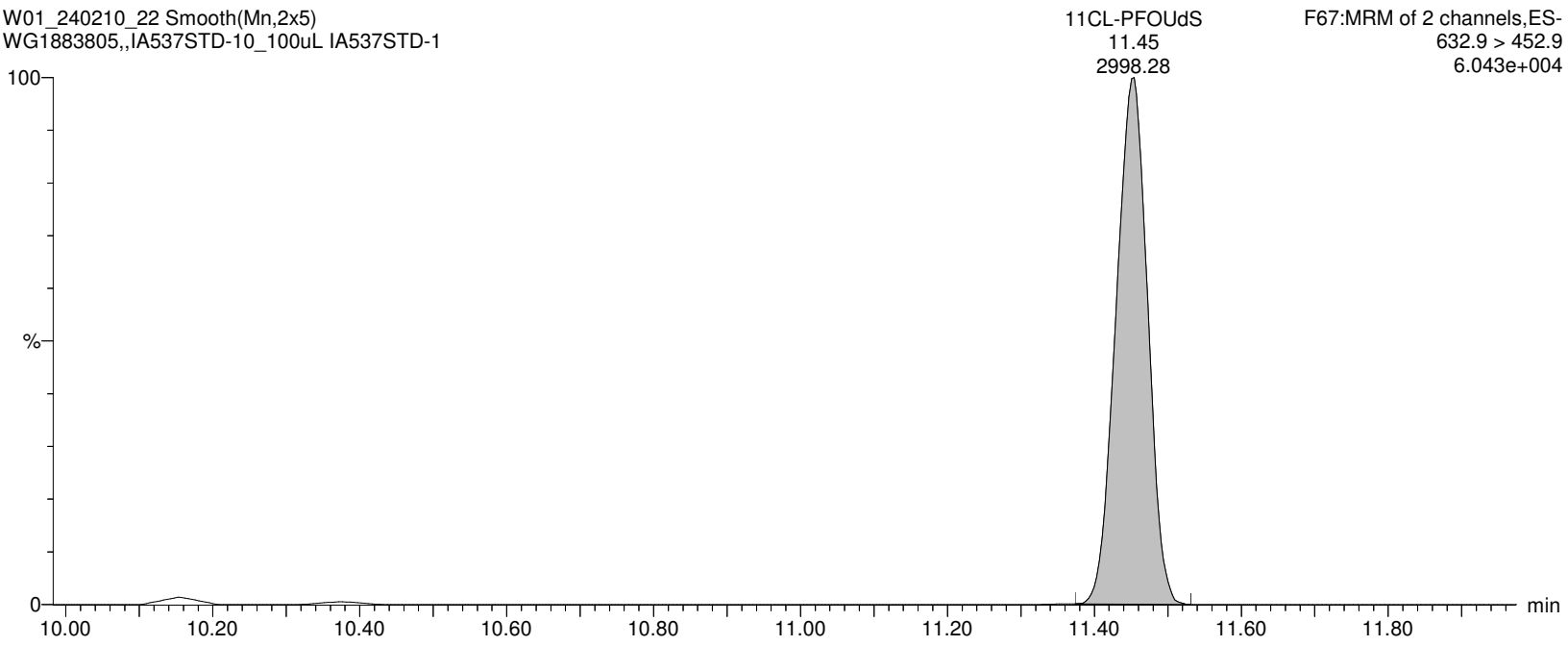

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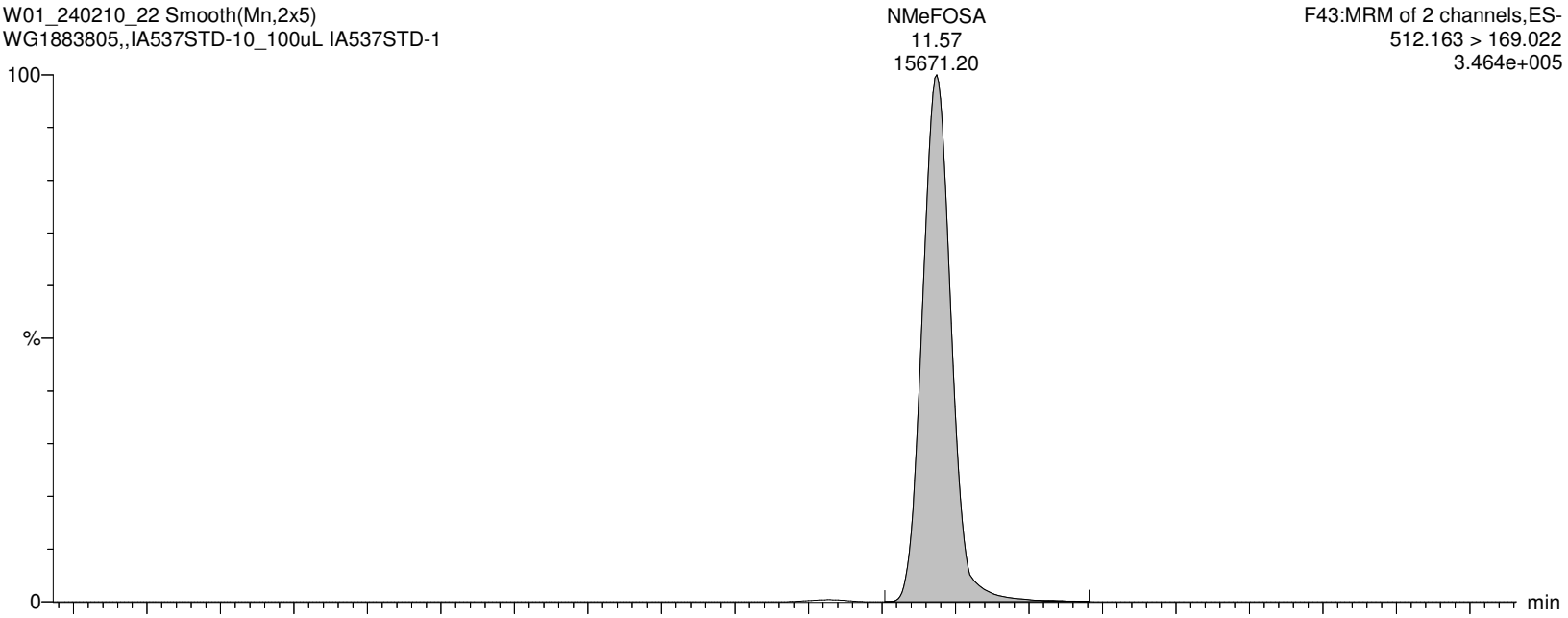

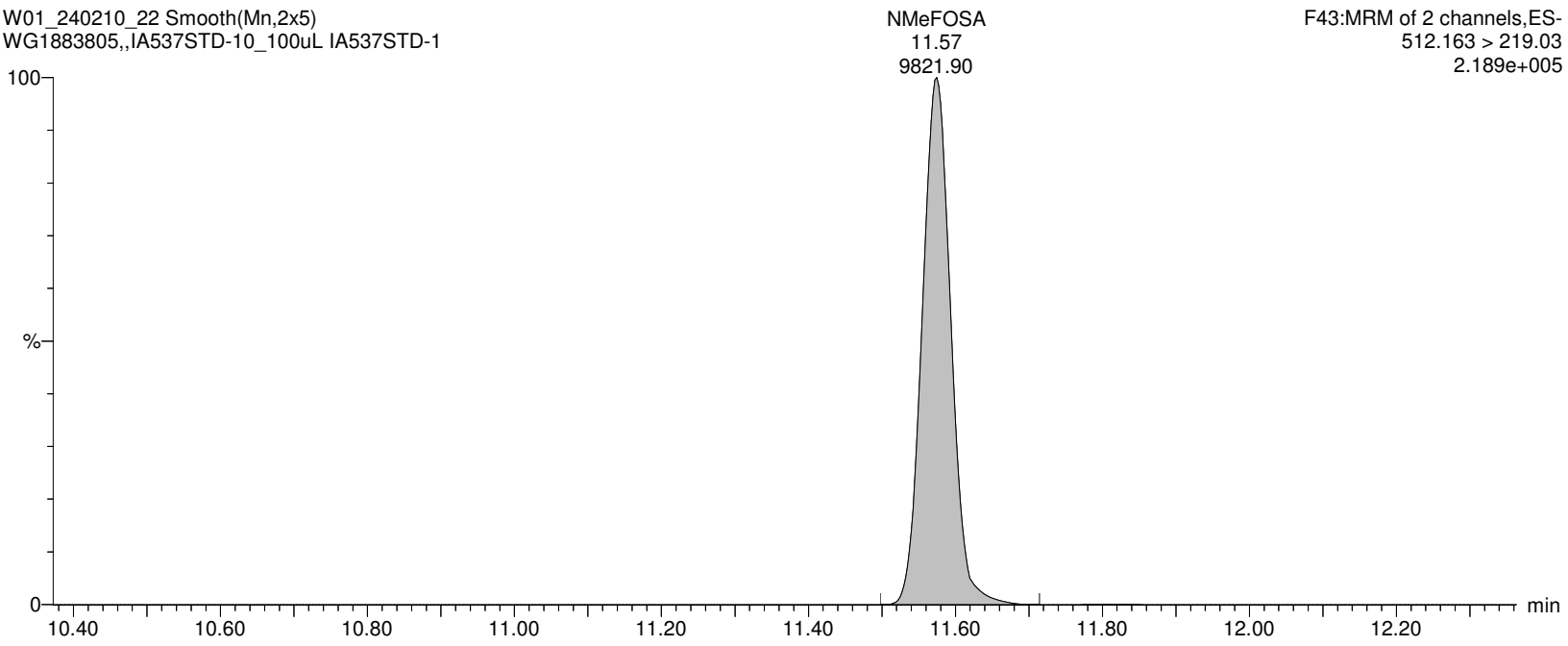

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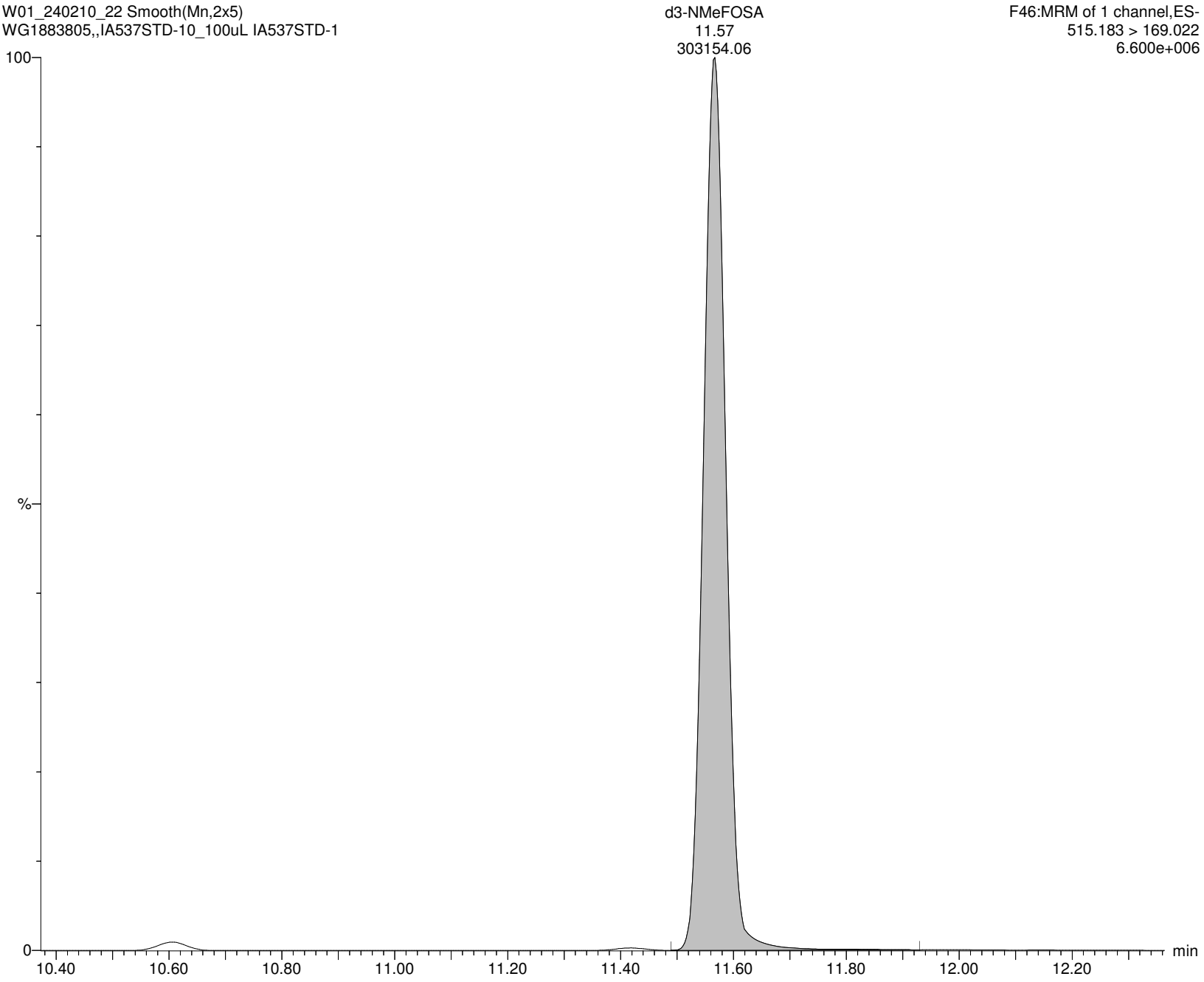

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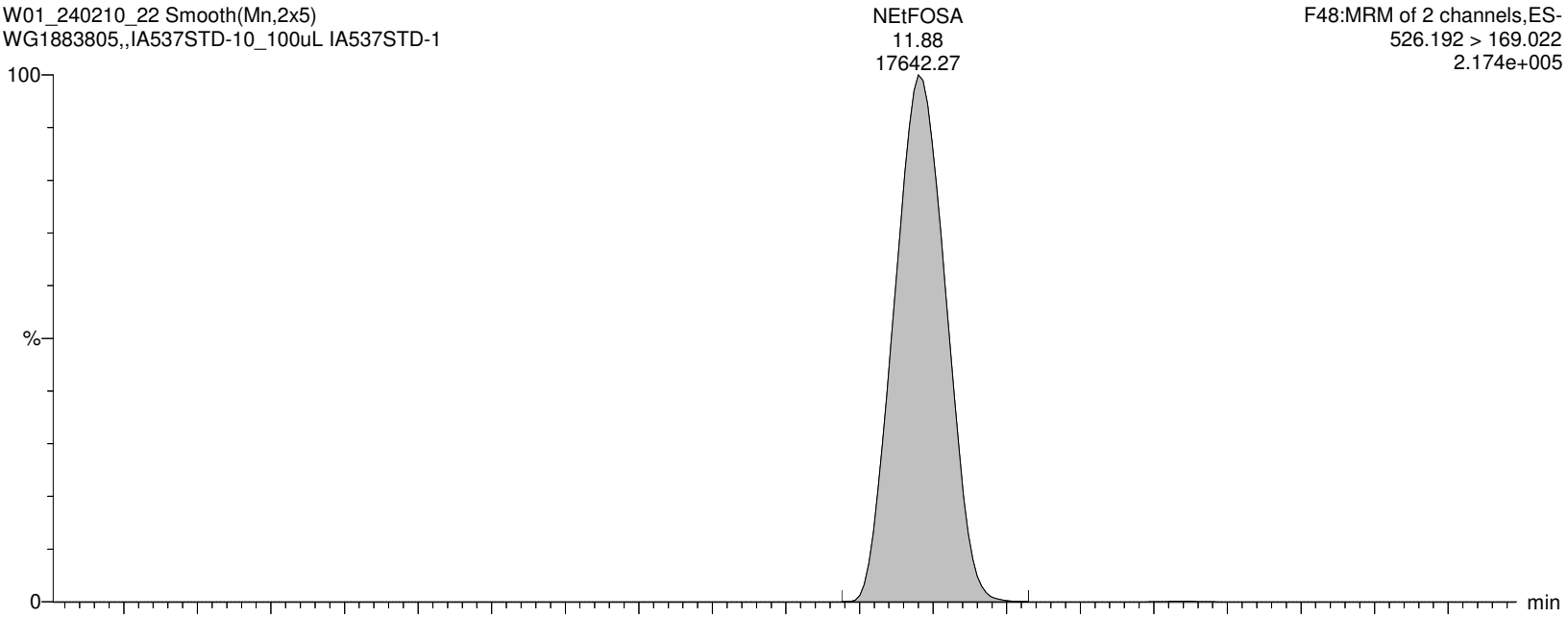

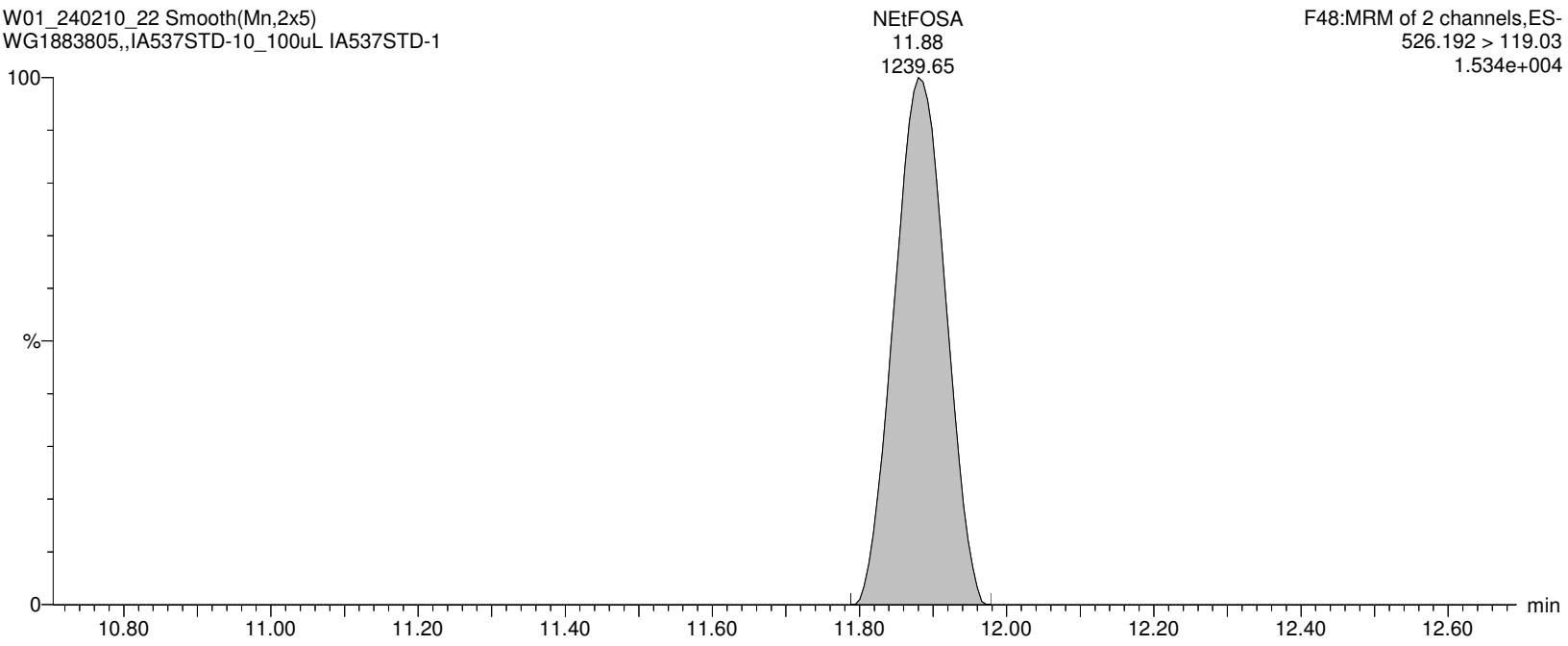

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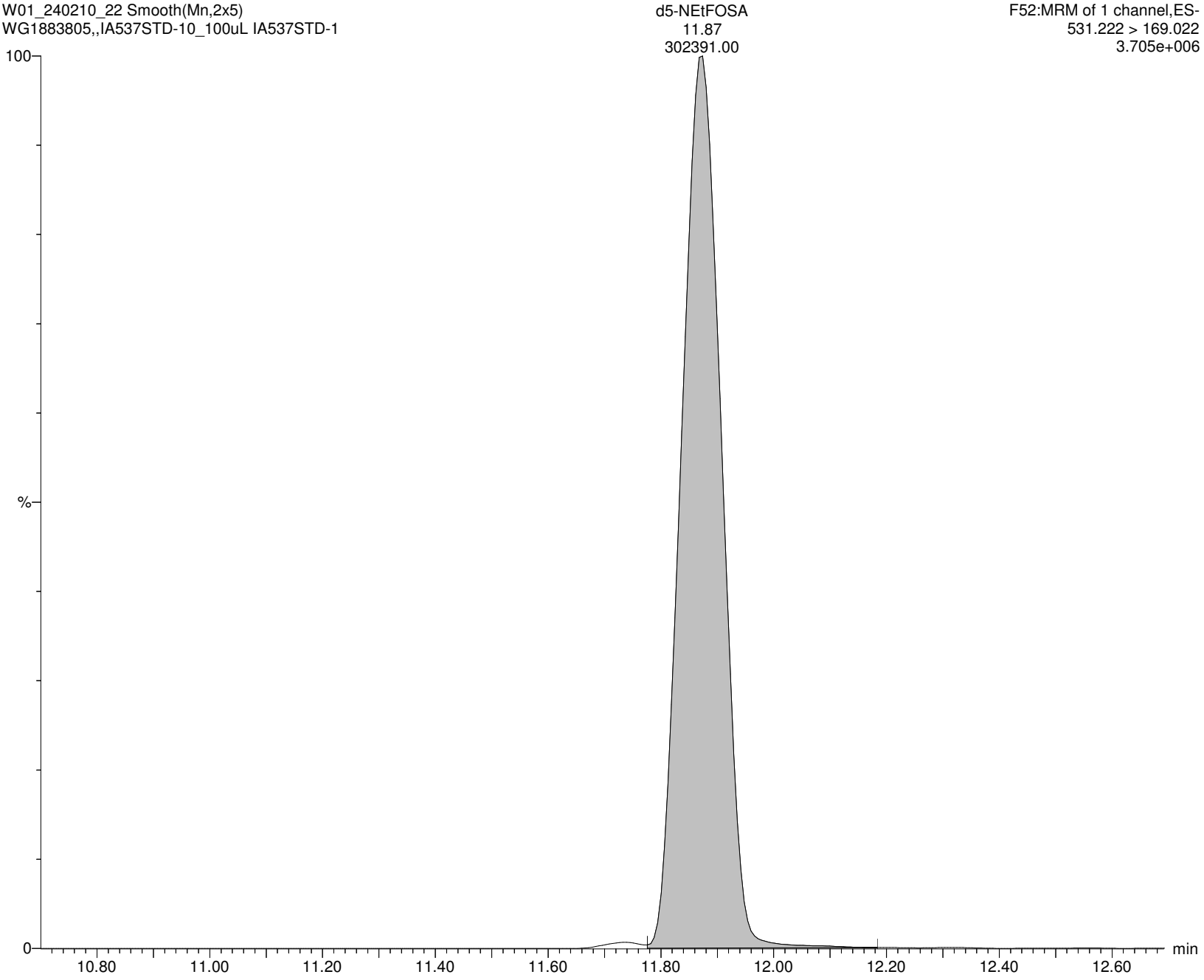

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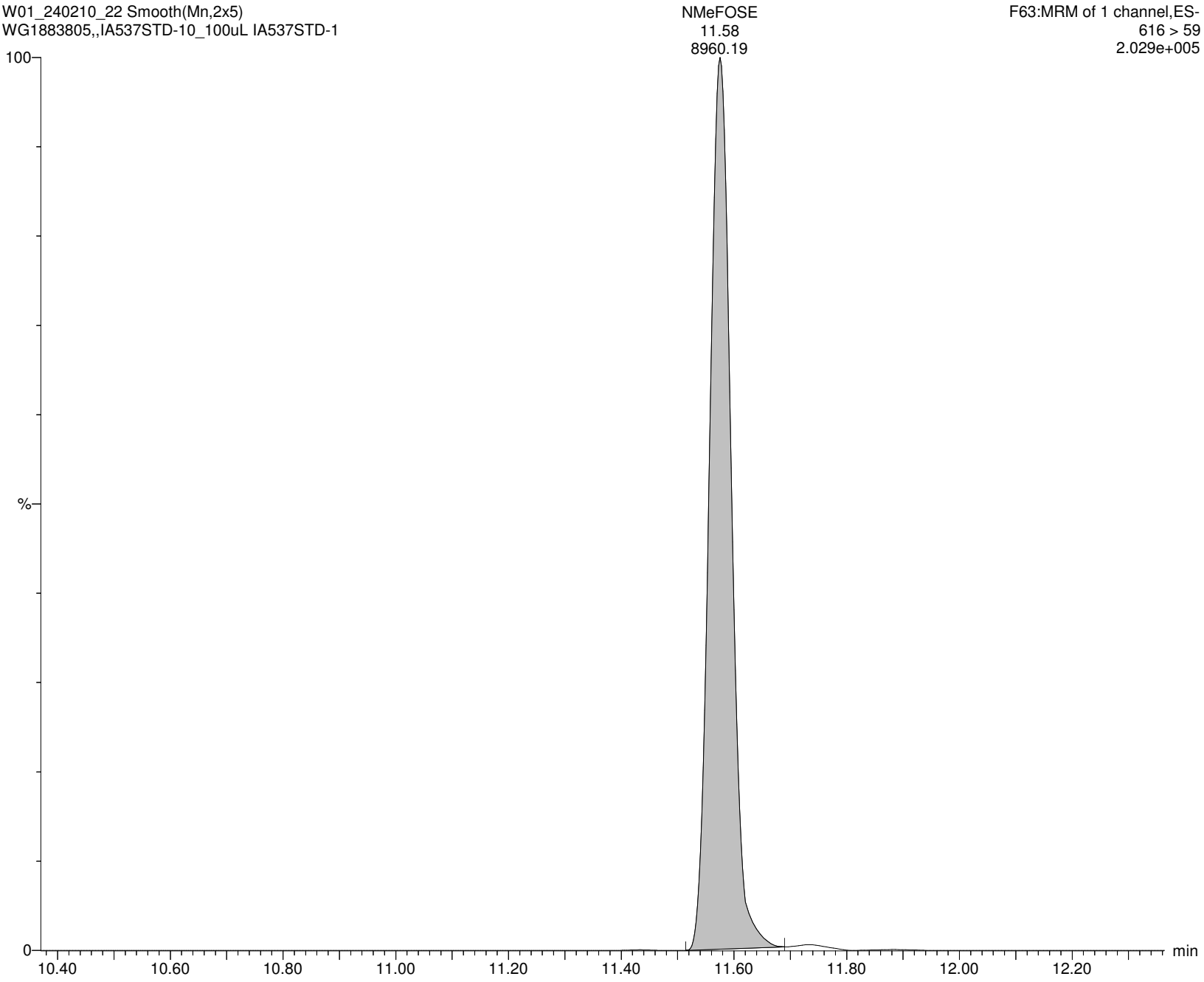

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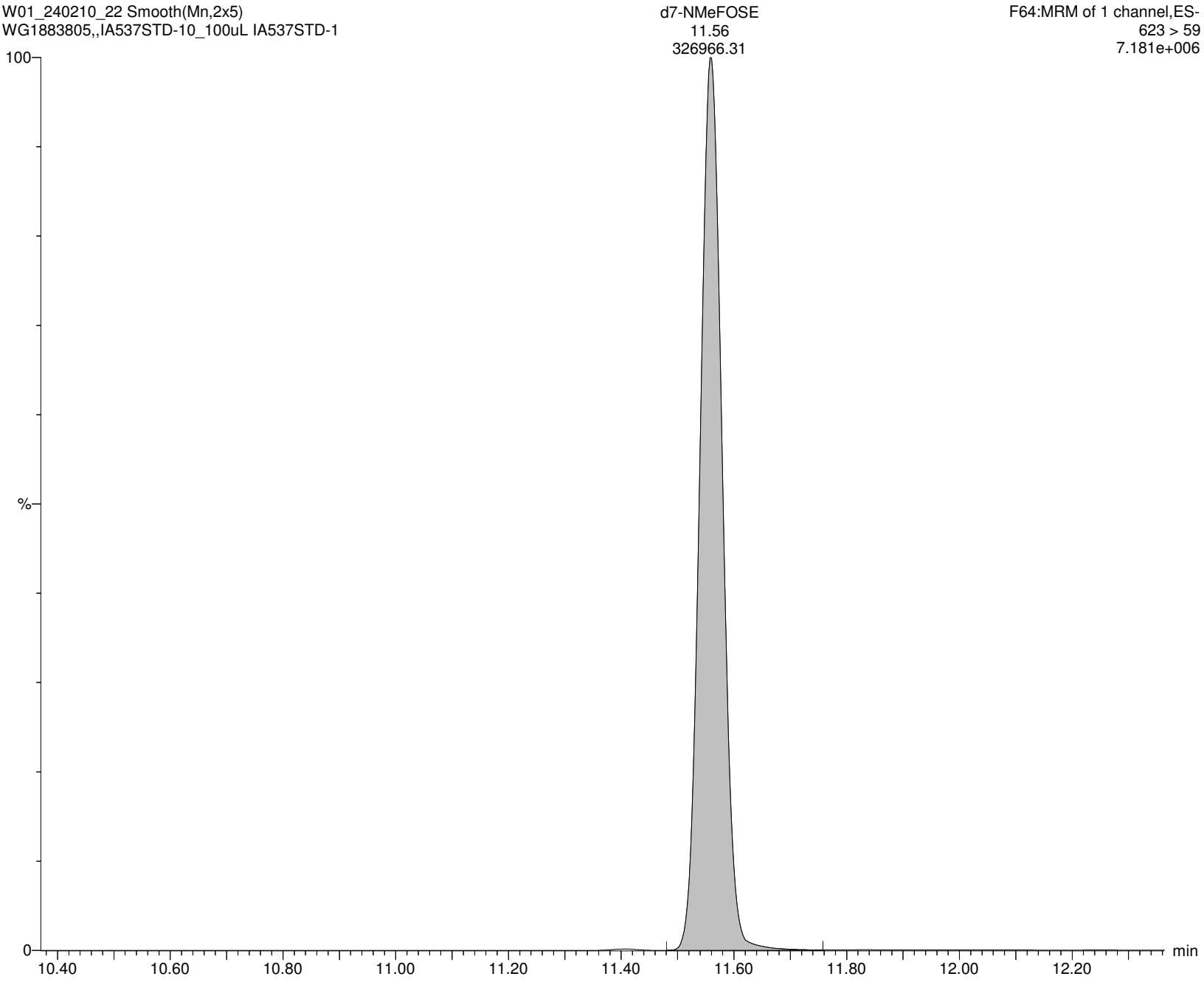

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Alpha Analytical Inc.
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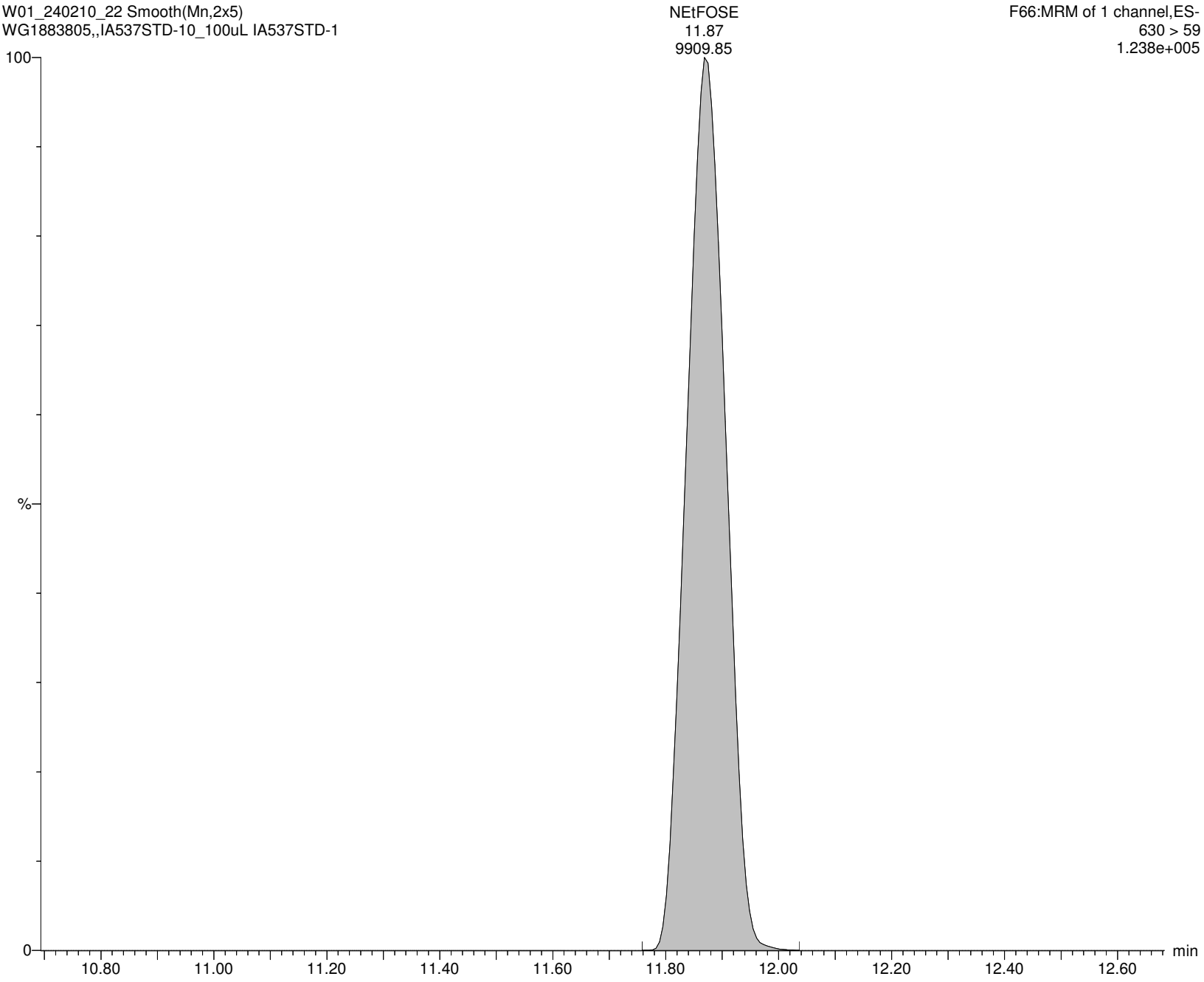
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:10 Eastern Standard Time

Name: W01_240210_22
ID: IA537STD-1
Date: 10-Feb-2024
Time: 16:30:05
Description: WG1883805,,IA537STD-10_100uL
User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

NEtFOSE



all concentration units in (ng/mL)

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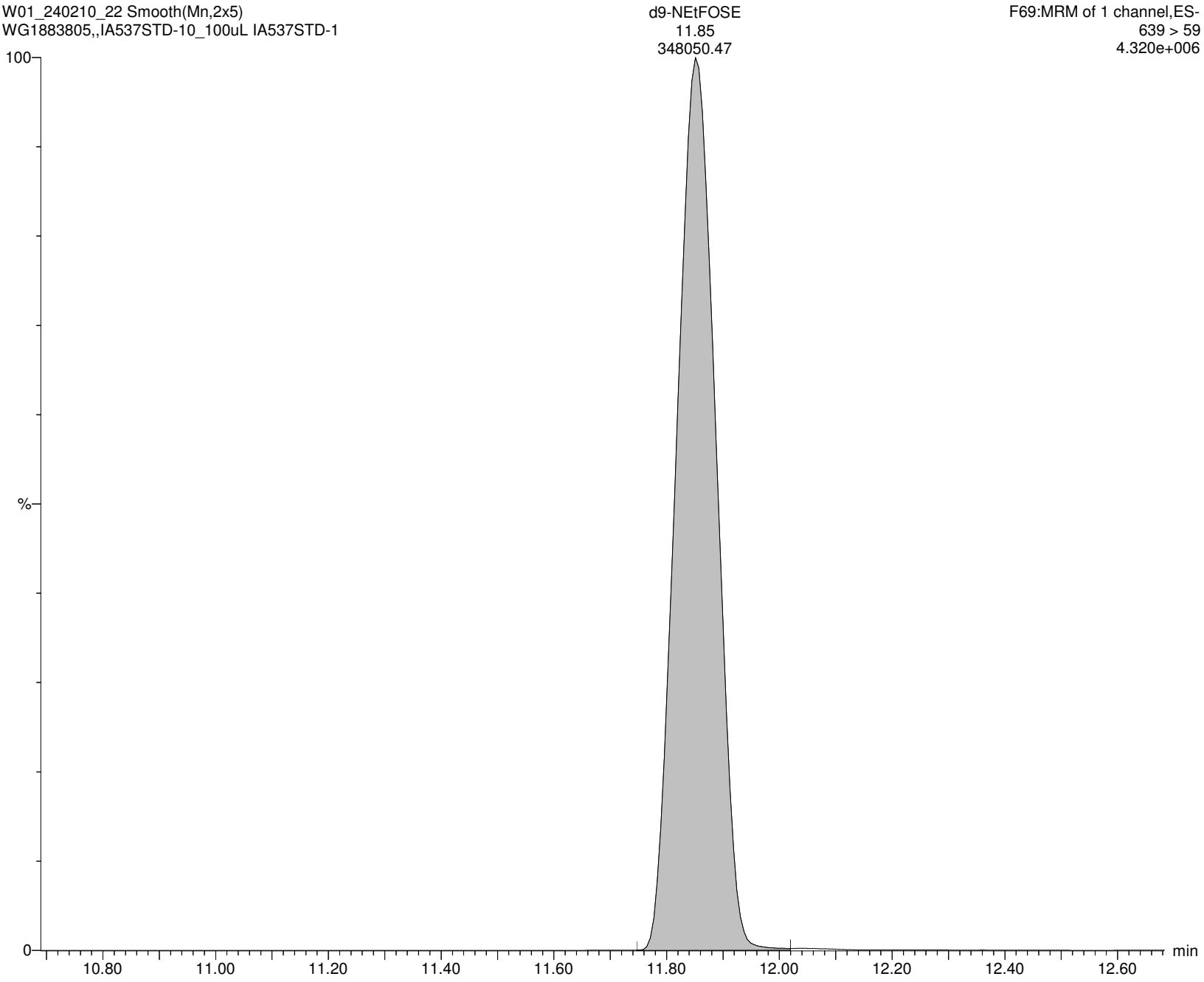
d9-NEtFOSE



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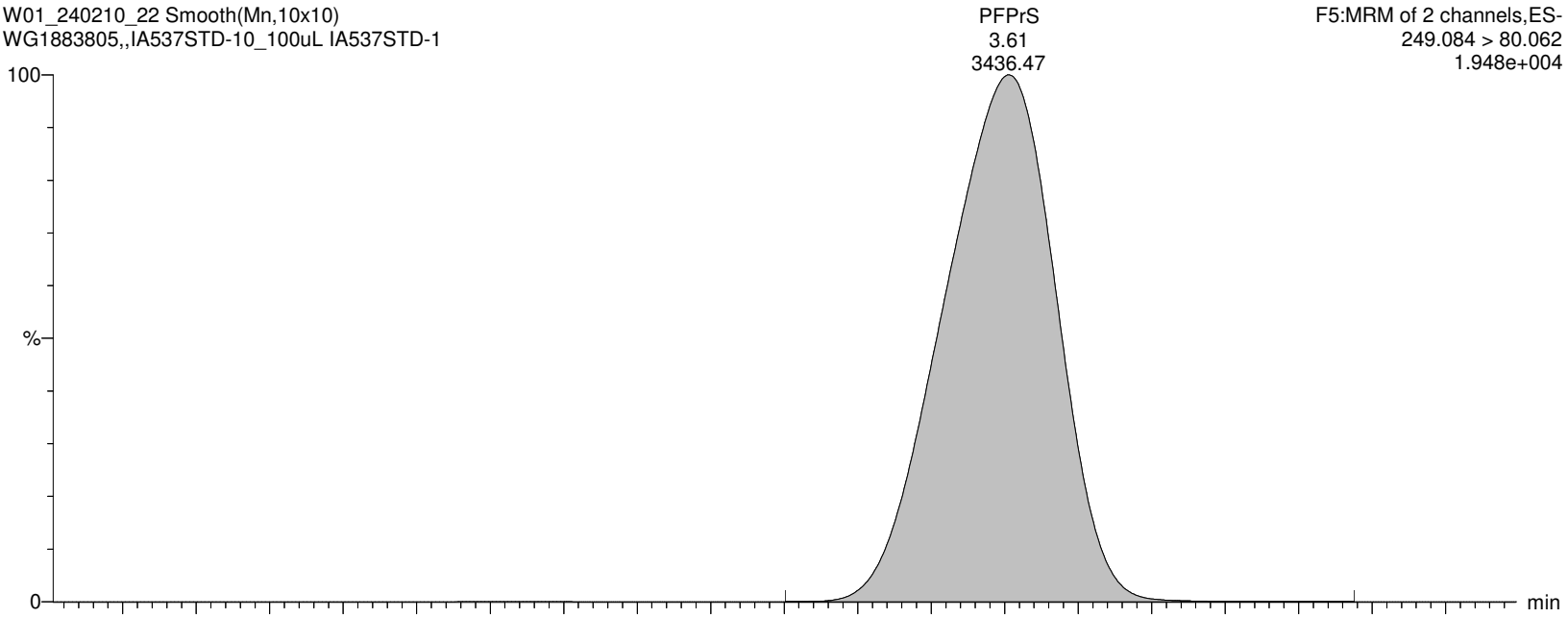

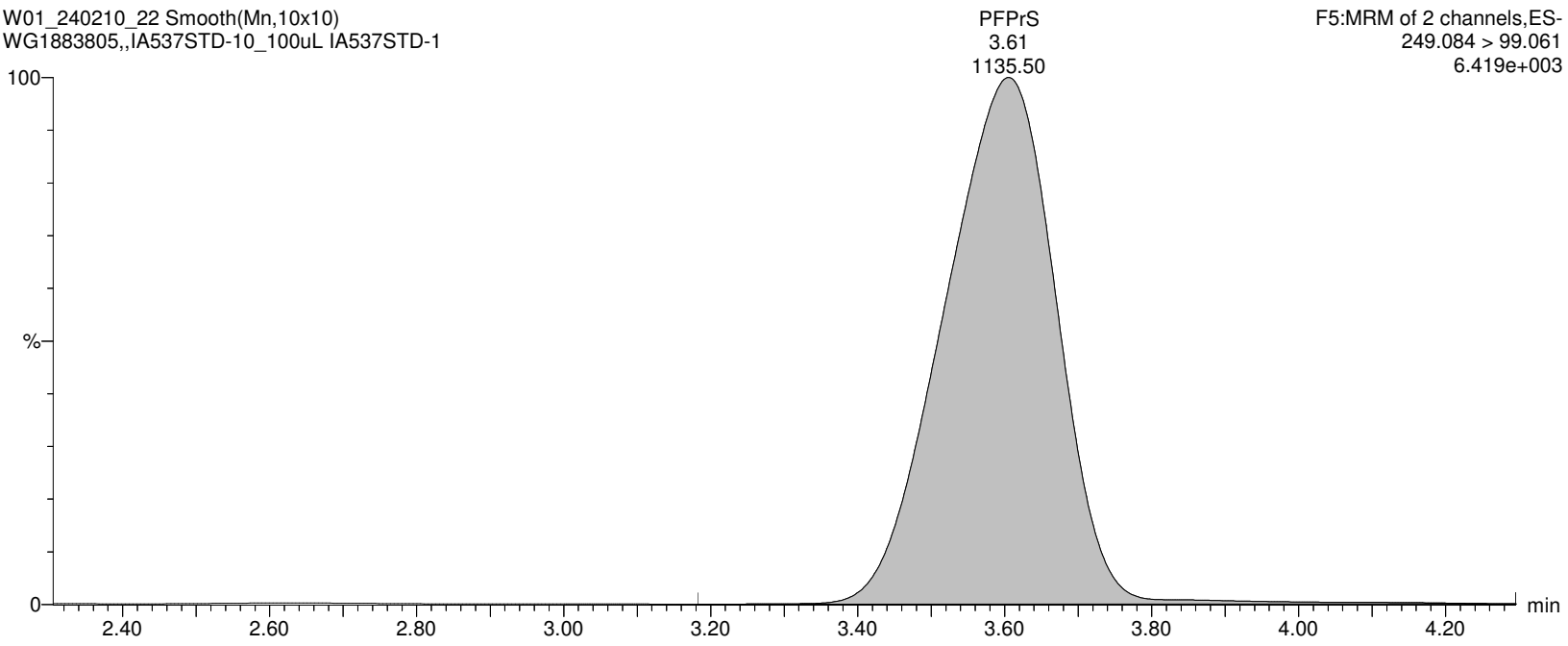

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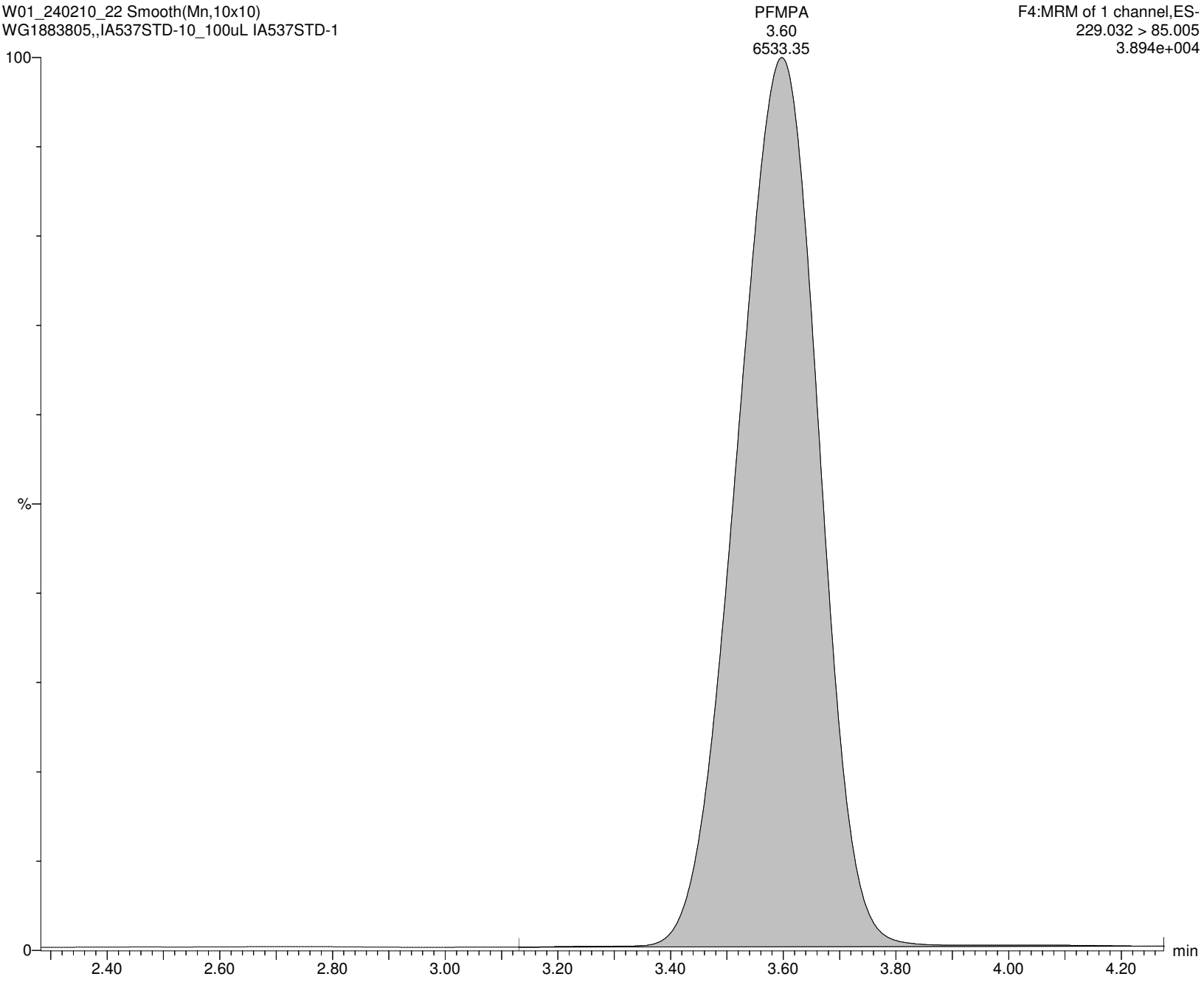
PFMPA



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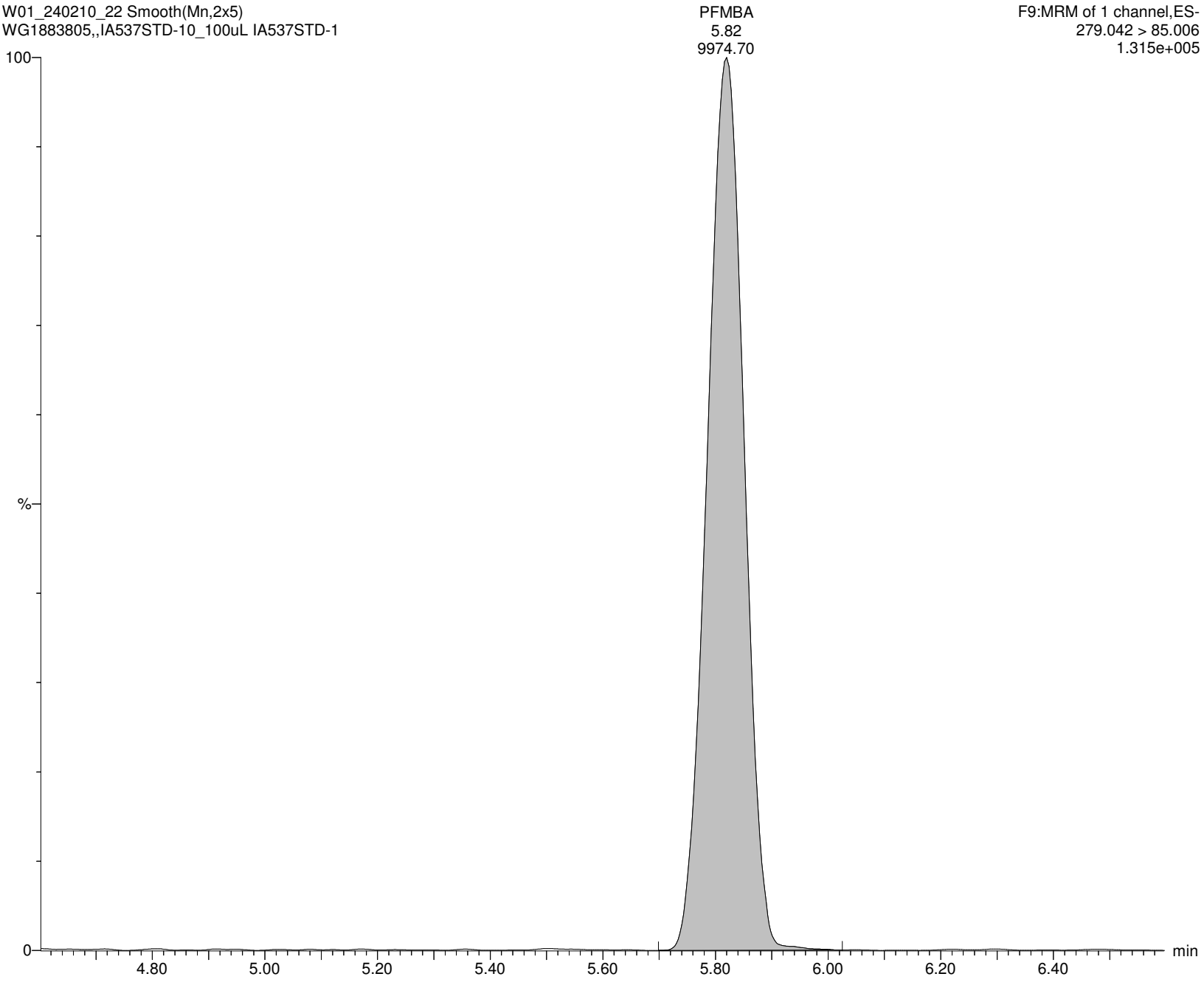

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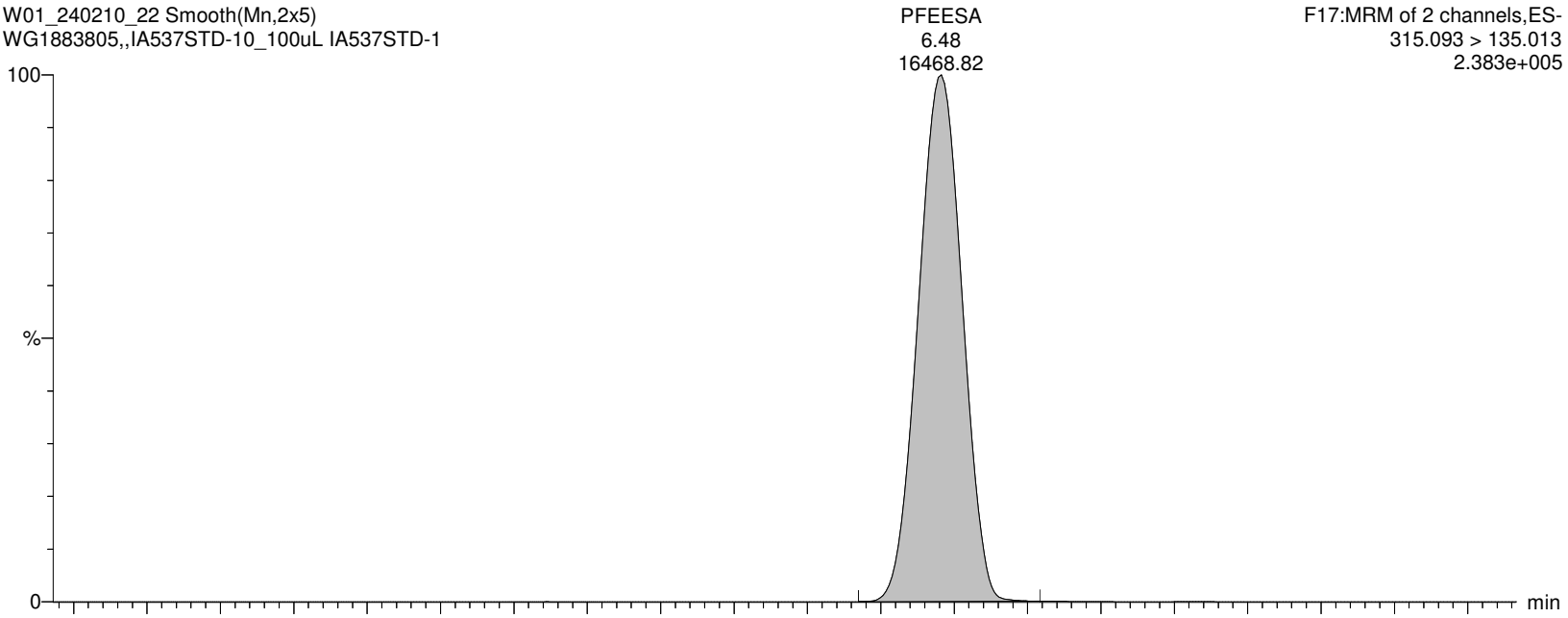

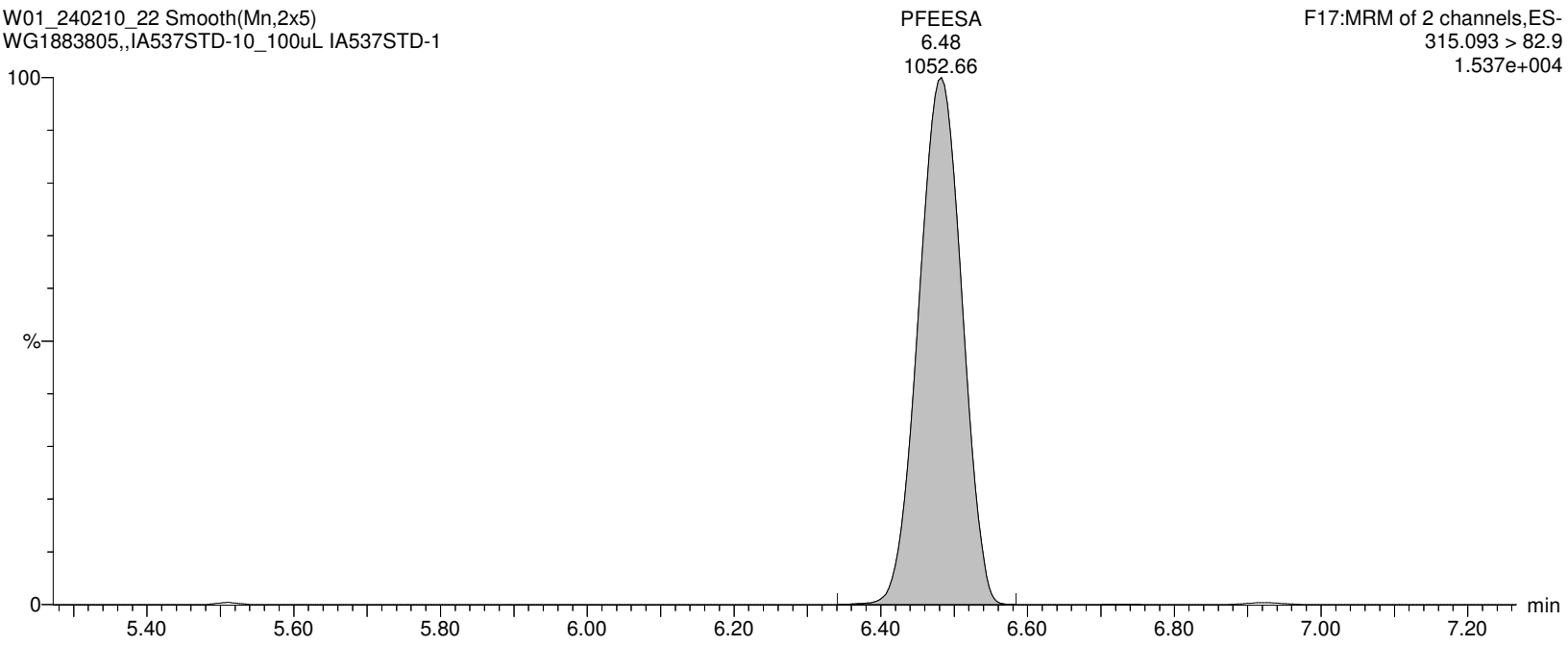

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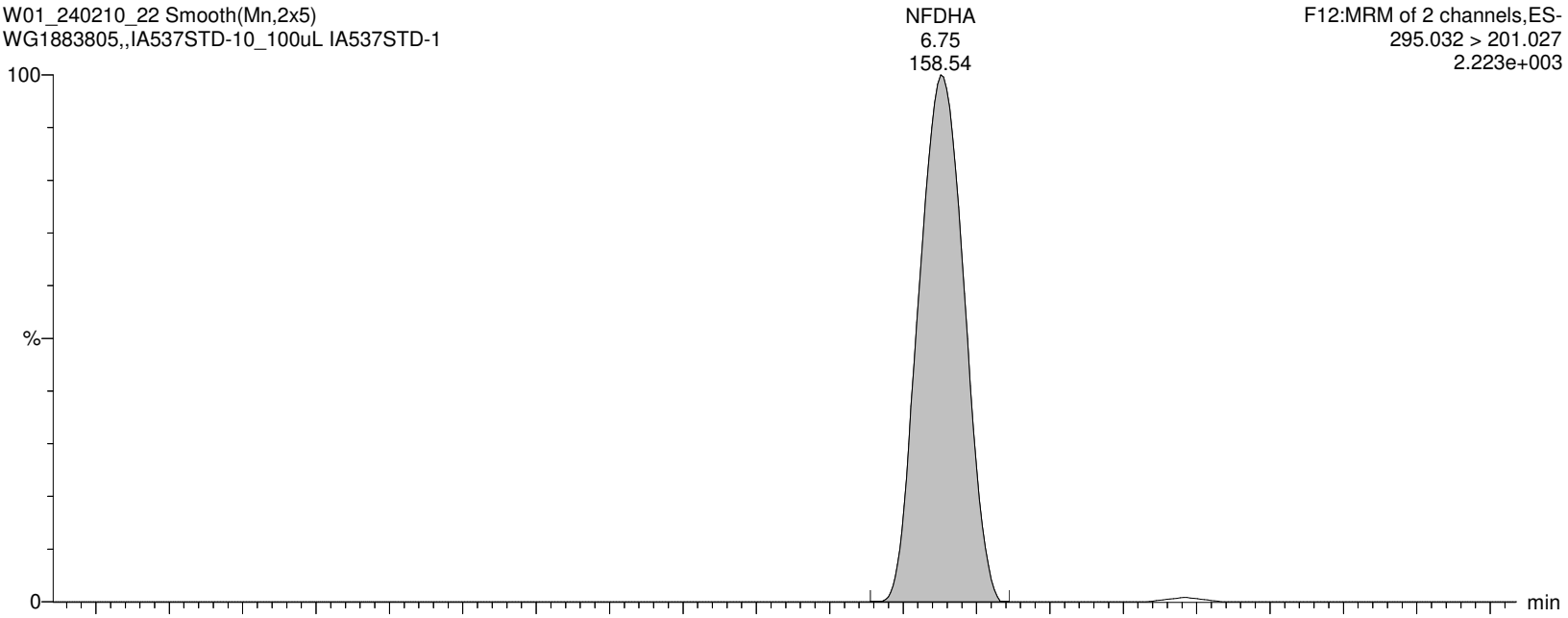

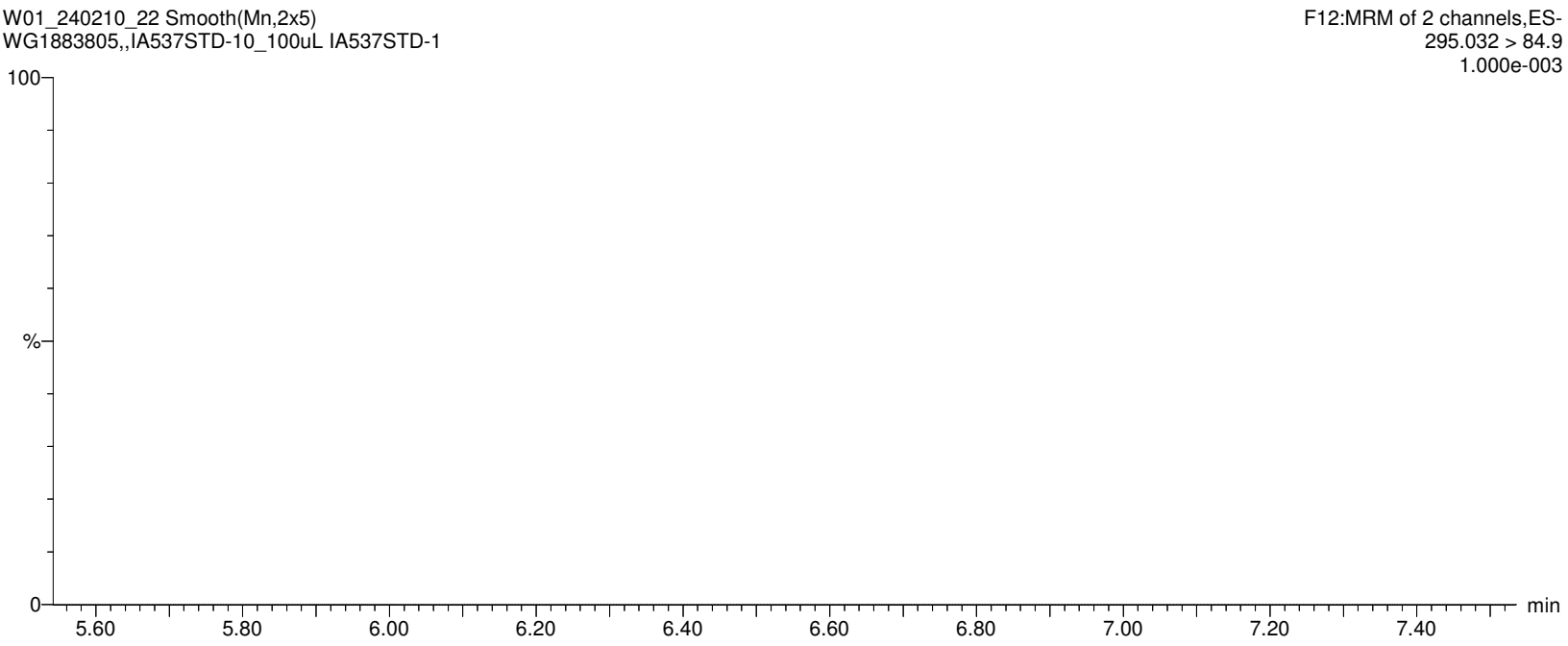

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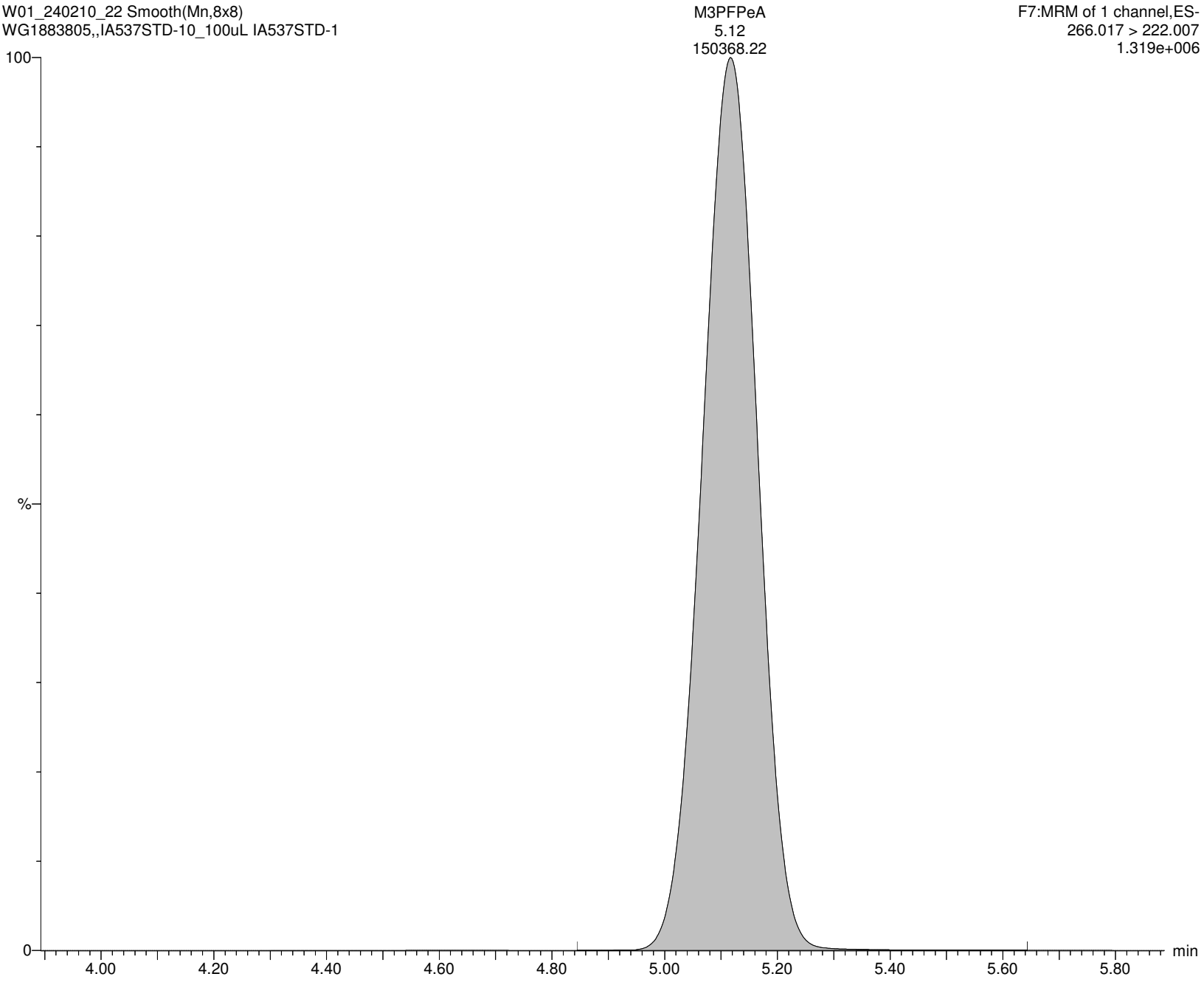

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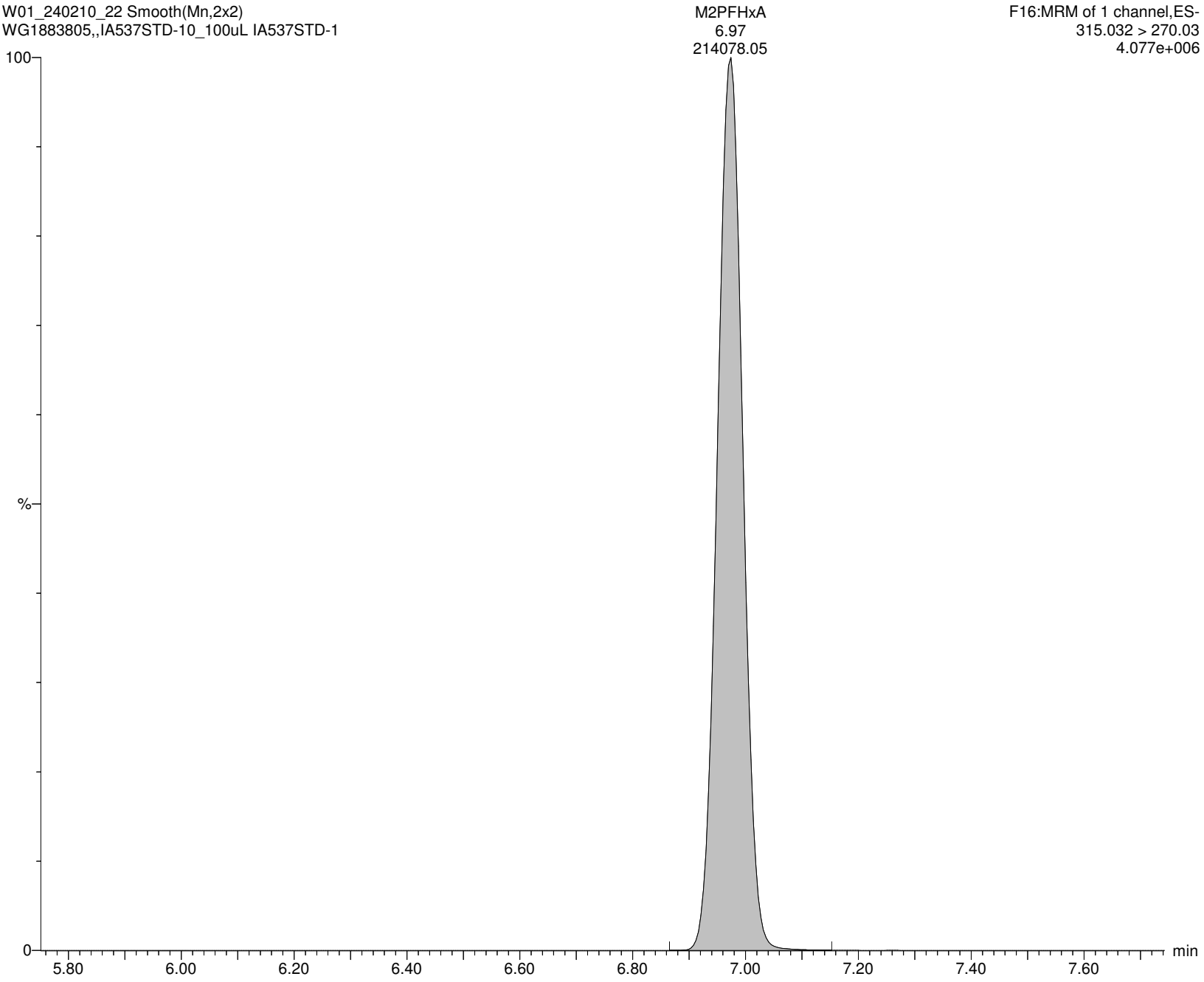

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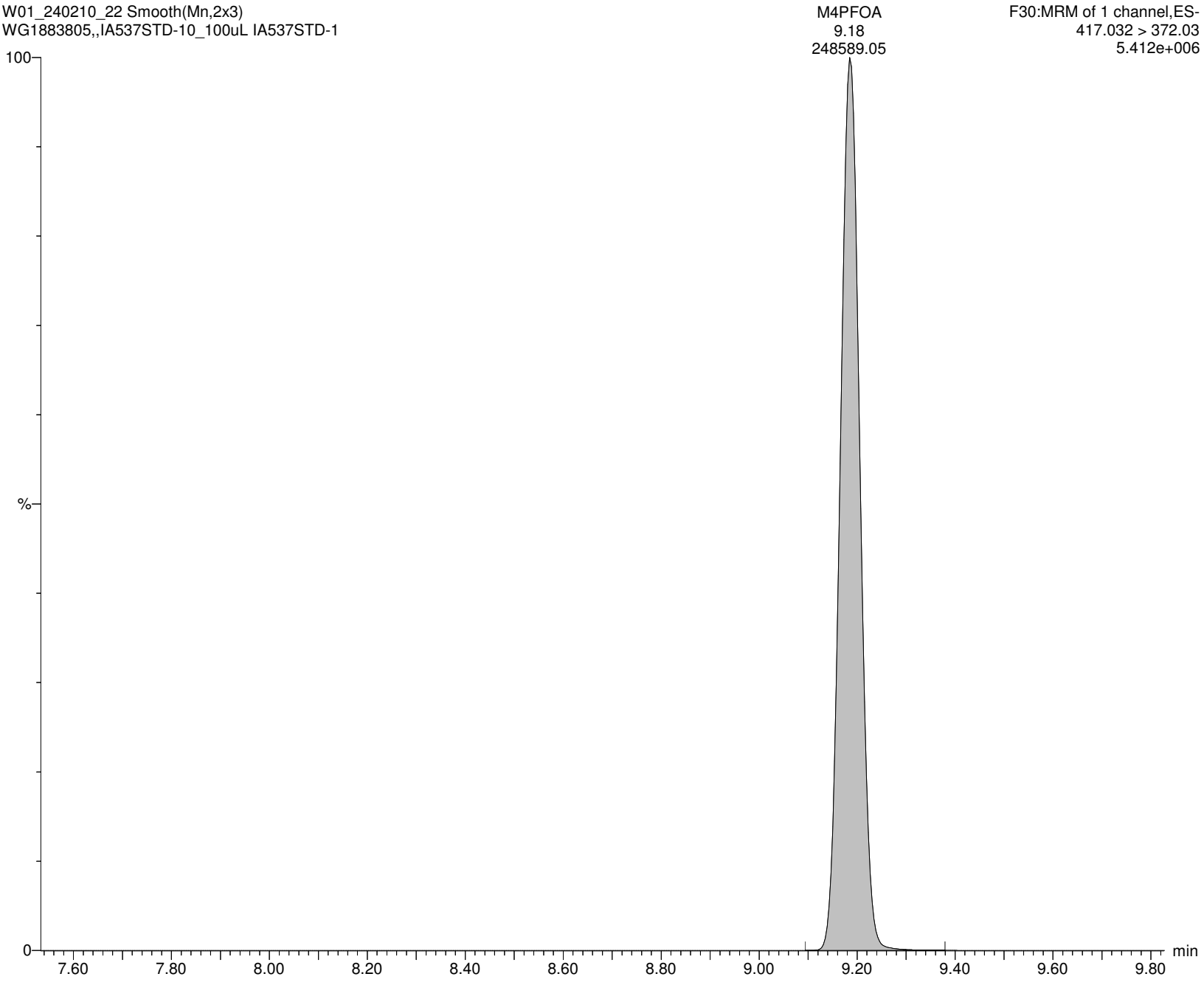

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Date: 10-Feb-2024
Time: 16:46:39
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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	16720		2.103		na	105.2
2	M3PFBA	INT STD	2.24	216.009 > 171.999	77089		10.052		na	100.5
3	MPFBA	INT STD	2.24	217.001 > 171.999	87759		10.005		na	100.1
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	19611		2.062		na	103.1
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	94071		10.271		na	102.7
6	PFBS	375-73-5	5.75	299.092 > 80.062	6638		1.851	1.79	NO	104.4
7	M3PFBS	INT STD	5.75	302.069 > 80.062	32363		8.951		na	96.0
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	1898		1.854	1.98	NO	99.0
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	9190		8.626		na	92.0
10	PFHxA	307-24-4	6.99	313.047 > 269.037	27853		2.168	16.08	NO	108.4
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	135277		9.963		na	99.6
12	PFPeS	2706-91-4	7.29	349.1 > 80.062	6917		1.823	1.48	NO	96.9
13	PFHpA	375-85-9	8.24	363.055 > 319.045	31596		2.159	4.20	NO	107.9
14	M4PFHpA	INT STD	8.23	367.025 > 322.022	145660		10.082		na	100.8
15	br-PFHxS	355-46-4	8.16	399.107 > 80.062	1111	M5,M7	0.306	1.75	NO	88.4
16	L-PFHxS	355-46-4	8.39	399.107 > 80.062	5573		1.461	1.45	NO	98.6
17	PFHxS	355-46-4		399.107 > 80.062	6683		1.767		na	
18	M3PFHxS	INT STD	8.39	402.084 > 80.062	33197		9.546		na	100.7
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.18	413.063 > 369.053	34077		2.080	11.34	NO	104.0
21	PFOA	335-67-1		413.063 > 369.053	34077		2.080		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	159387		10.153		na	101.5
23	M2PFOA	INT STD	9.18	415.048 > 370.045	155095		10.447		na	104.5
24	6:2FTS	27619-97-2	9.14	427.161 > 407.155	1791		2.013	3.70	NO	105.8
25	M2-6:2FTS	INT STD	9.14	429.146 > 409.14	9833		8.033		na	84.5
26	PFHpS	375-92-8	9.27	449.115 > 80.062	7562		2.123	1.51	NO	111.4
27	PFNA	375-95-1	9.94	463.071 > 419.061	35707		2.155	6.70	NO	107.8
28	M9PFNA	INT STD	9.94	472.002 > 427.	164423		10.082		na	100.8
29	br-PFOS	1763-23-1	9.80	499.123 > 80.062	1856	M5,M7	0.378	3.09	NO	96.4
30	L-PFOS	1763-23-1	9.99	499.123 > 80.062	6435		1.489	1.62	NO	101.7
31	PFOS	1763-23-1		499.123 > 80.062	8291		1.867		na	
32	M4PFOS	INT STD	9.99	503.093 > 80.062	38066		10.278		na	107.1
33	M8PFOS	INT STD	9.99	507.062 > 80.062	38495		9.479		na	98.8
34	PFDA	335-76-2	10.58	513.078 > 469.069	31390		2.201	5.04	NO	110.1
35	M2PFDA	INT STD	10.58	515.063 > 470.061	147772		11.014		na	110.1
36	M6PFDA	INT STD	10.58	519.033 > 474.03	146512		9.945		na	99.4
37	8:2FTS	39108-34-4	10.57	527.177 > 507.171	2028		2.050	2.73	NO	106.8
38	M2-8:2FTS	INT STD	10.57	529.162 > 509.155	11425		8.827		na	92.0
39	PFNS	68259-12-1	10.61	549.131 > 80.062	8347		1.945	1.94	NO	101.1

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.22 > 419.061	19939		8.811		na	88.1
41	br-NMeFOSAA	2355-31-9	10.79	570.202 > 419.061	276	M5,M7	0.469	1.09	NO	97.7
42	L-NMeFOSAA	2355-31-9	10.96	570.202 > 419.061	2476		1.807	2.45	NO	118.9
43	NMeFOSAA	2355-31-9		570.202 > 419.061	2752		2.276		na	
44	PFUnA	2058-94-8	11.14	563.086 > 519.076	34421		1.982	6.54	NO	99.1
45	M7-PFUDA	INT STD	11.14	570.033 > 525.031	167266		10.421		na	104.2
46	PFDS	335-77-3	11.15	598.926 > 80.062	7407		1.914	1.68	NO	99.1
47	FOSA	754-91-6	10.91	498.146 > 78.07	24175	M7	2.097	46.00	NO	104.8
48	M8FOSA	INT STD	10.91	506.077 > 78.07	104190		9.618		na	96.2
49	d5-NEtFOSAA	INT STD	11.25	589.259 > 419.061	19544		9.164		na	91.6
50	br-NEtFOSAA	2991-50-6	11.10	584.229 > 419.061	293	M5,M7	0.396	0.80	NO	88.1
51	L-NEtFOSAA	2991-50-6	11.26	584.229 > 419.061	2255		1.431	1.33	NO	92.3
52	NEtFOSAA	2991-50-6		584.229 > 419.061	2548		1.828		na	
53	PFDoA	307-55-1	11.63	613.094 > 569.084	34280		1.892	7.31	NO	94.6
54	MPFDOA	INT STD	11.63	615.079 > 570.077	167036		9.272		na	92.7
55	PFTrDA	72629-94-8	12.06	663.102 > 619.092	30450		2.458	9.95	NO	122.9
56	PFTA	376-06-7	12.44	713.11 > 669.1	33504		1.917	18.17	NO	95.8
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	157129		9.671		na	96.7
58	M3HFPO-DA	INT STD	7.41	287.02 > 169.022	186443		211.614		na	105.8
59	HFPO-DA	13252-13-6	7.41	285.035 > 169.022	13980		20.188	38.23	NO	100.9
60	ADONA	958445-44-8	8.41	377.06 > 251.028	37239	M7	2.090	114.74	NO	110.6
61	PFHxDA		12.83	813.122 > 769.116	59522		2.235	55.37	NO	111.8
62	PFODA		13.05	913.411 > 869.131	15936		2.159	113.58	NO	107.9
63	M2PFHxDA		12.83	815.102 > 770.108	243548		9.678		na	96.8
64	PFDoS		12.06	699.154 > 80.062	6905		1.809	1.50	NO	93.4
65	M2D4-10:2FTS		11.64	633.201 > 612.189	11153		20.018		na	102.1
66	10:2FTS		11.65	627.192 > 607.186	1752	M4	2.011	3.10	NO	104.1
67	9CL-PF3ONS		10.34	531.096 > 351.07	17555		1.745	2.15	NO	93.5
68	11CL-PFOUdS		11.42	631.096 > 451.076	16967		1.752	2.87	NO	92.9
69	NMeFOSA		11.54	512.163 > 169.022	34776		11.258	1.58	NO	112.6
70	d3-NMeFOSA		11.54	515.183 > 169.022	298274		97.570		na	97.6
71	NEtFOSA		11.86	526.192 > 169.022	36931		11.853	7.29	NO	118.5
72	d5-NEtFOSA		11.84	531.222 > 169.022	299627		97.191		na	97.2
73	NMeFOSE		11.55	616 > 59	18640		4.615		na	92.3
74	d7-NMeFOSE		11.53	623 > 59	326957		97.446		na	97.4
75	NEtFOSE		11.84	630 > 59	17859		5.325		na	106.5
76	d9-NEtFOSE		11.83	639 > 59	338221		92.587		na	92.6
77	PFPrS		3.61	249.084 > 80.062	7149		1.767	2.99	NO	96.1
78	PFMPA		3.60	229.032 > 85.005	13633		2.051		na	102.5
79	PFMBA		5.82	279.042 > 85.006	20907		2.251		na	112.5
80	PFEESA		6.50	315.093 > 135.013	34211		1.668	16.31	NO	93.7
81	NFDHA		6.76	295.032 > 201.027	415		2.075		YES	103.7
82	M3PFPeA		5.12	266.017 > 222.007	149240		11.323		na	113.2

all concentration units in (ng/mL)

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Name: W01_240210_23
Date: 10-Feb-2024
Time: 16:46:39
Description: WG1883805,,,IA537STD-10_200uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.99	315.032 > 270.03	208888		11.033		na	110.3
84	M4PFOA		9.18	417.032 > 372.03	242983		11.147		na	111.5

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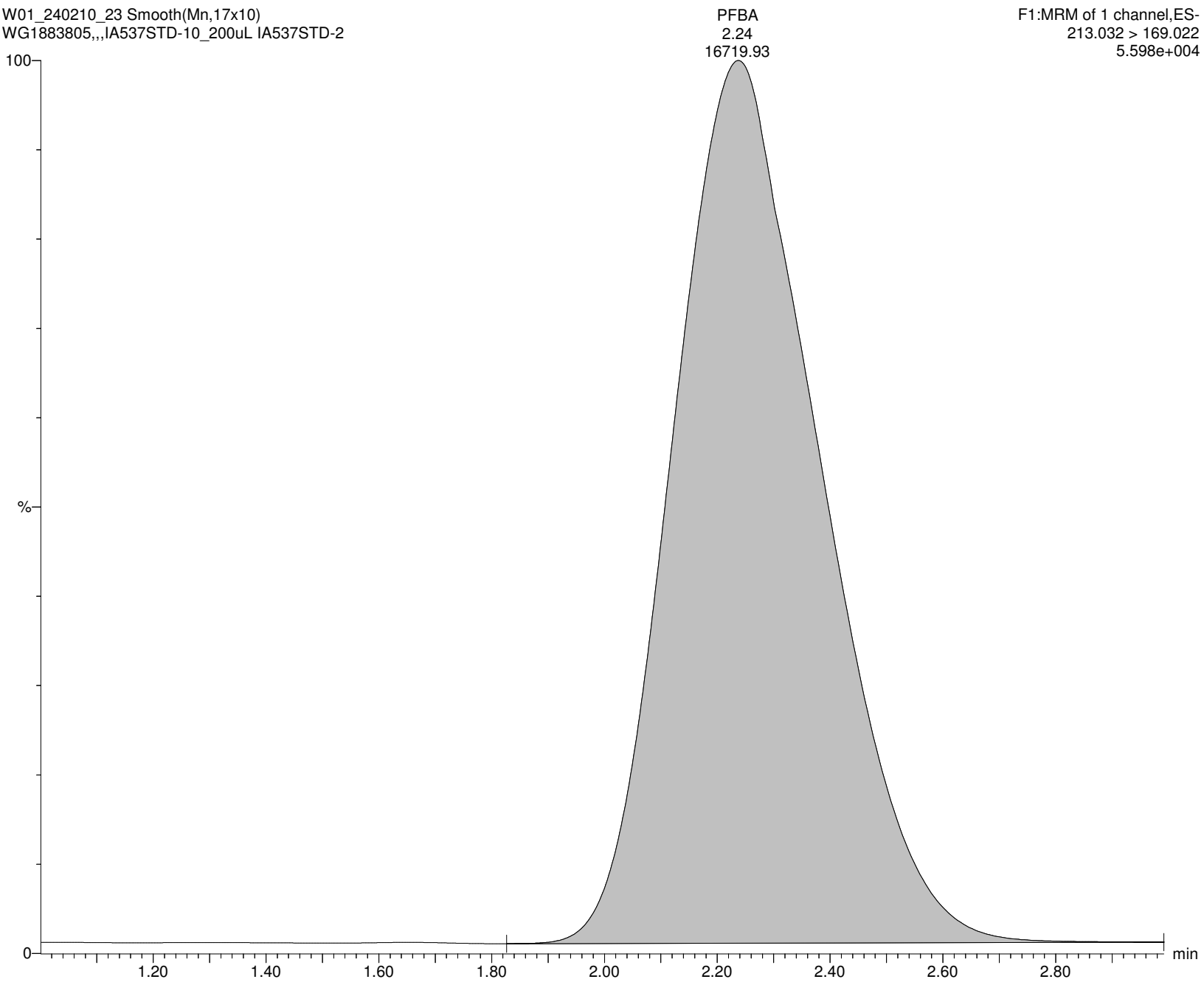

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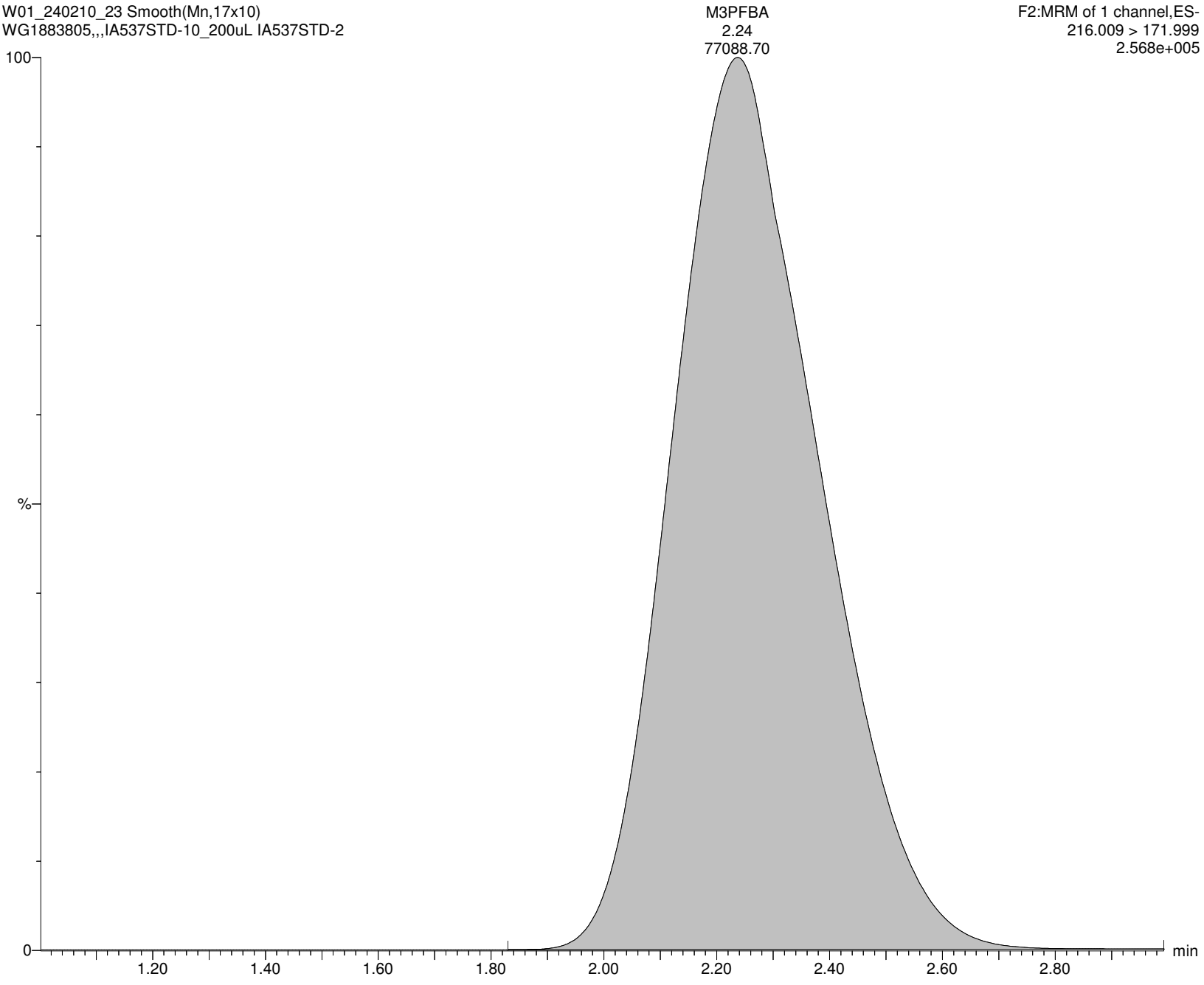

all concentration units in (ng/mL)

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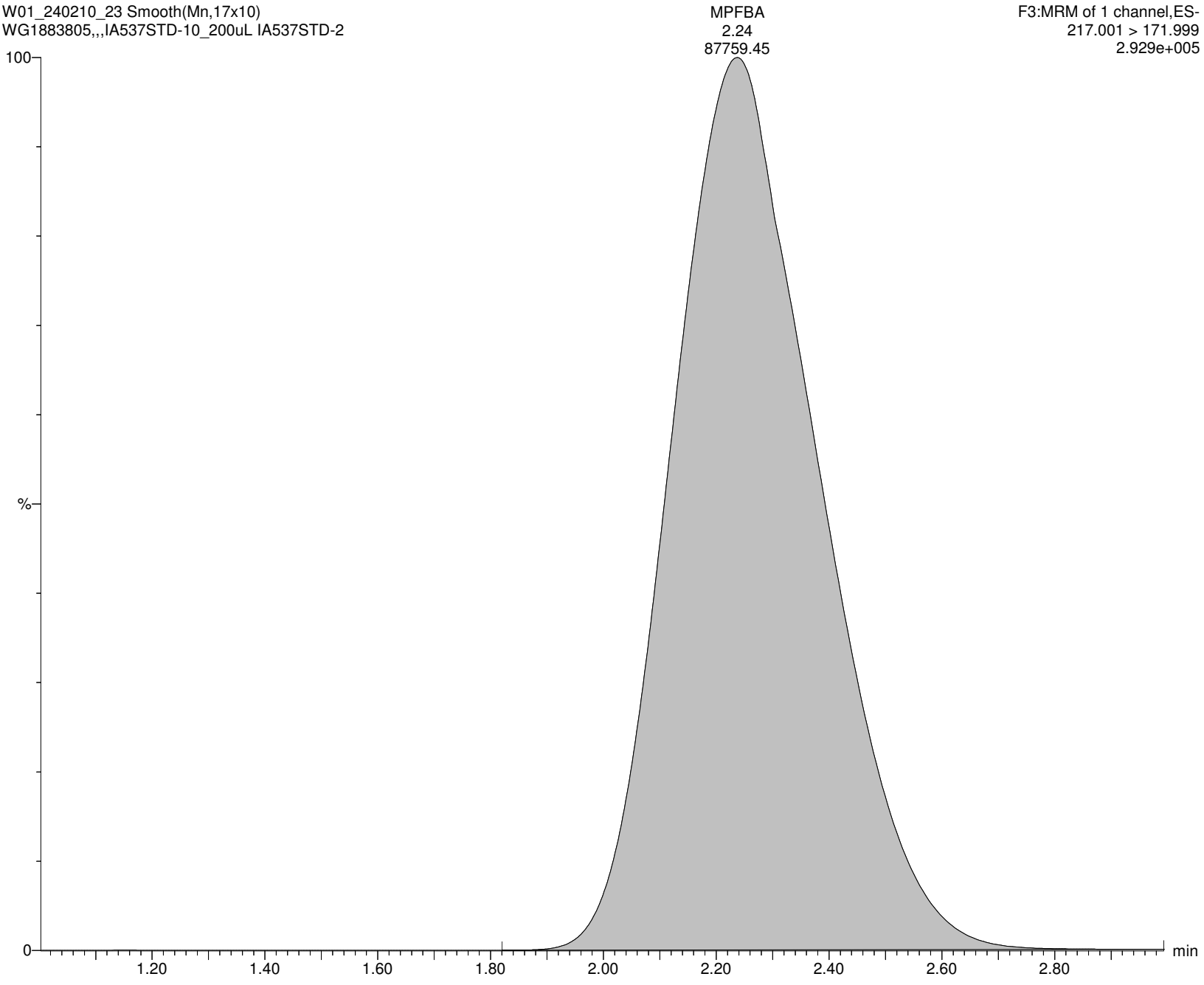

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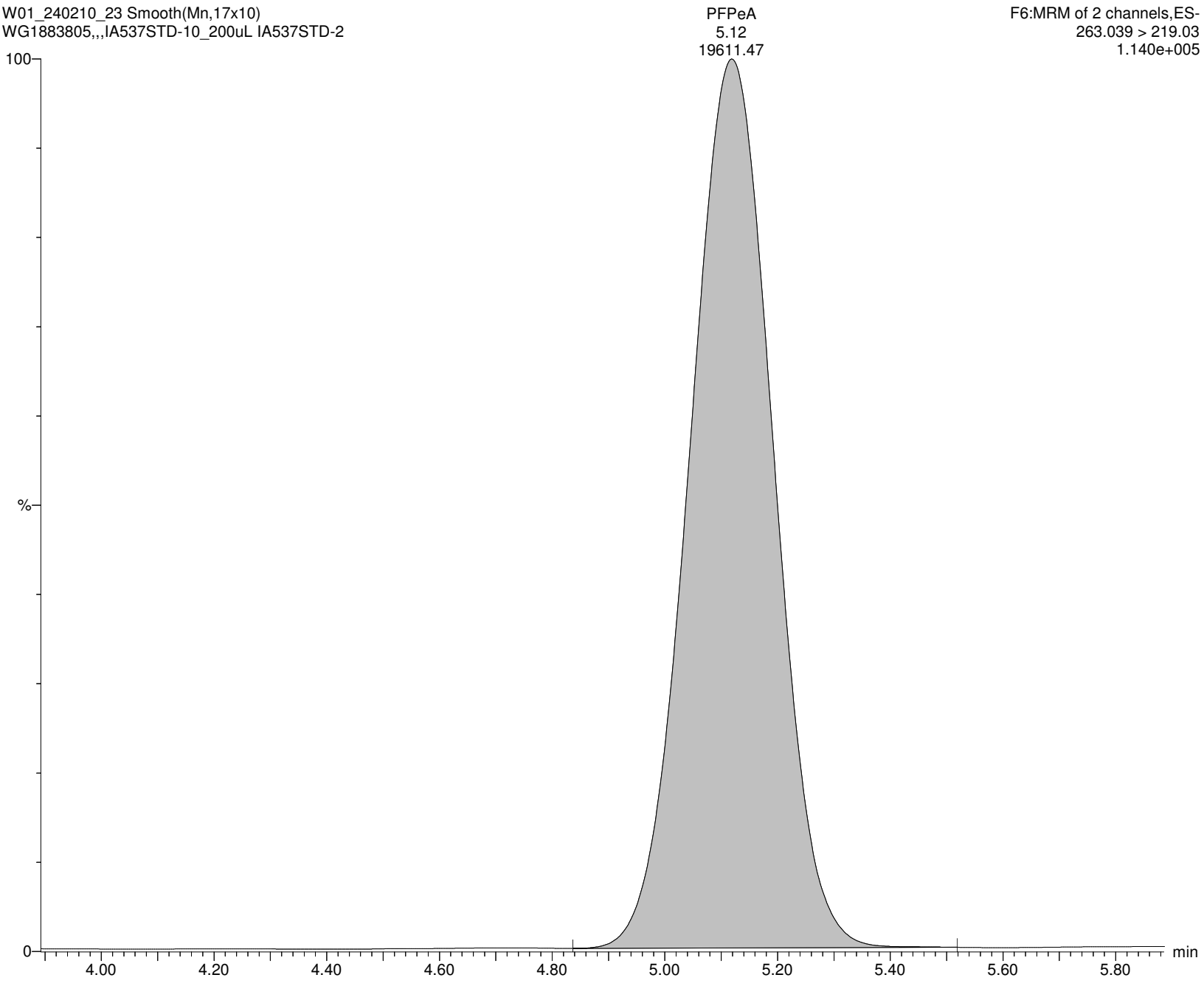

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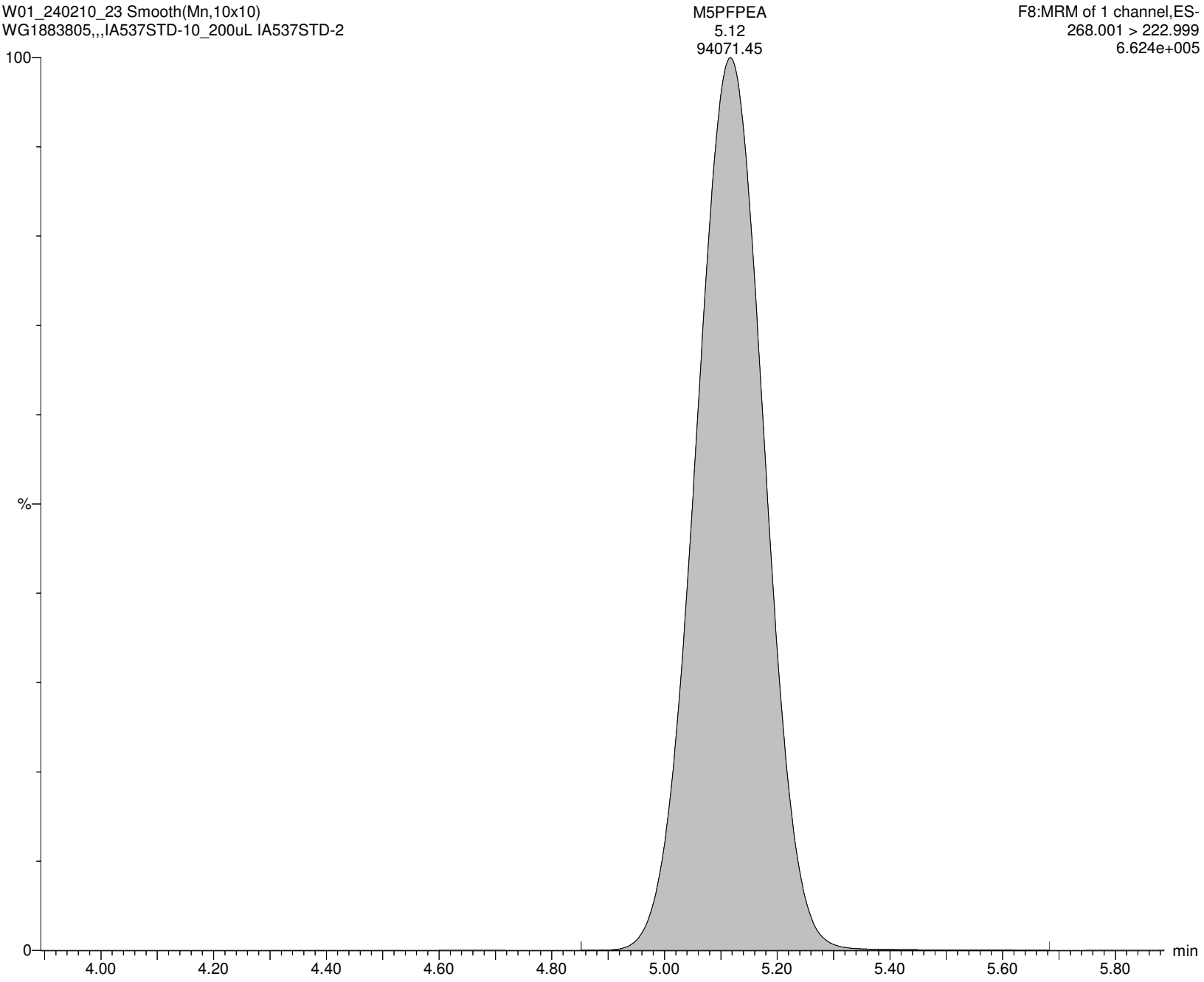

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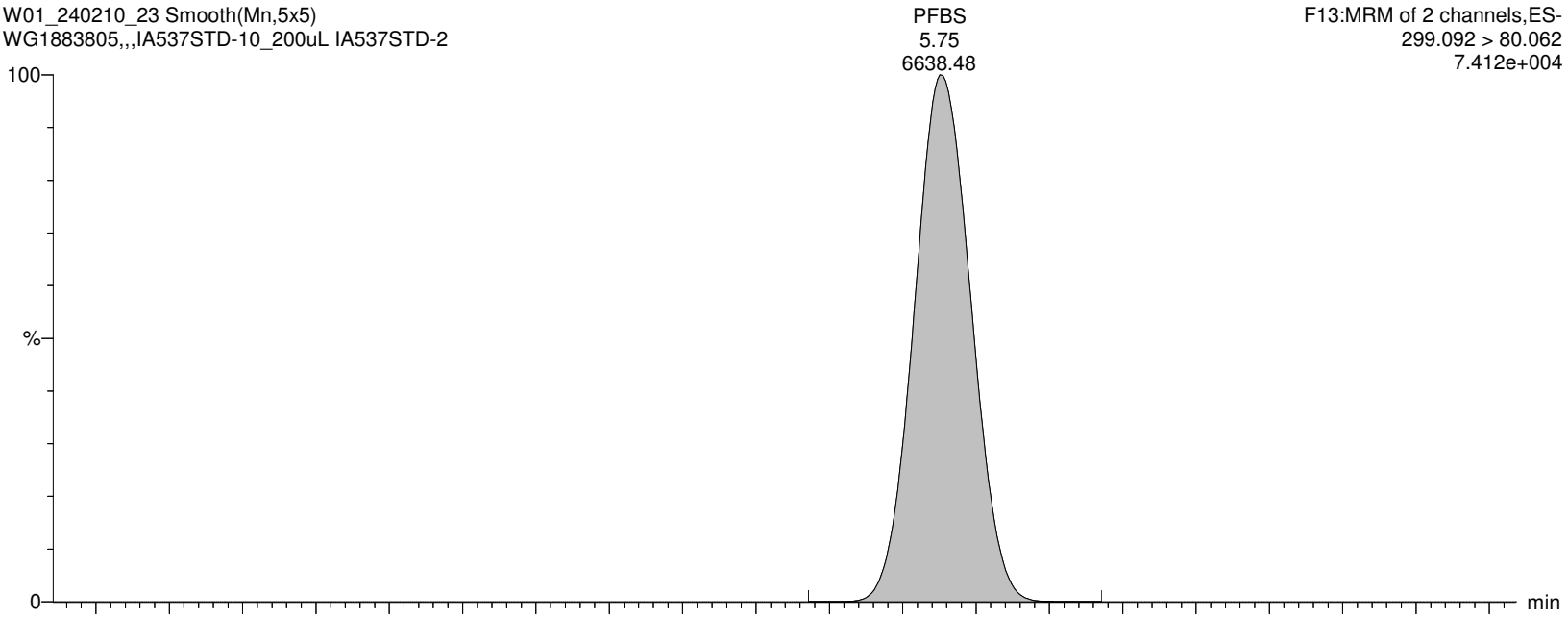

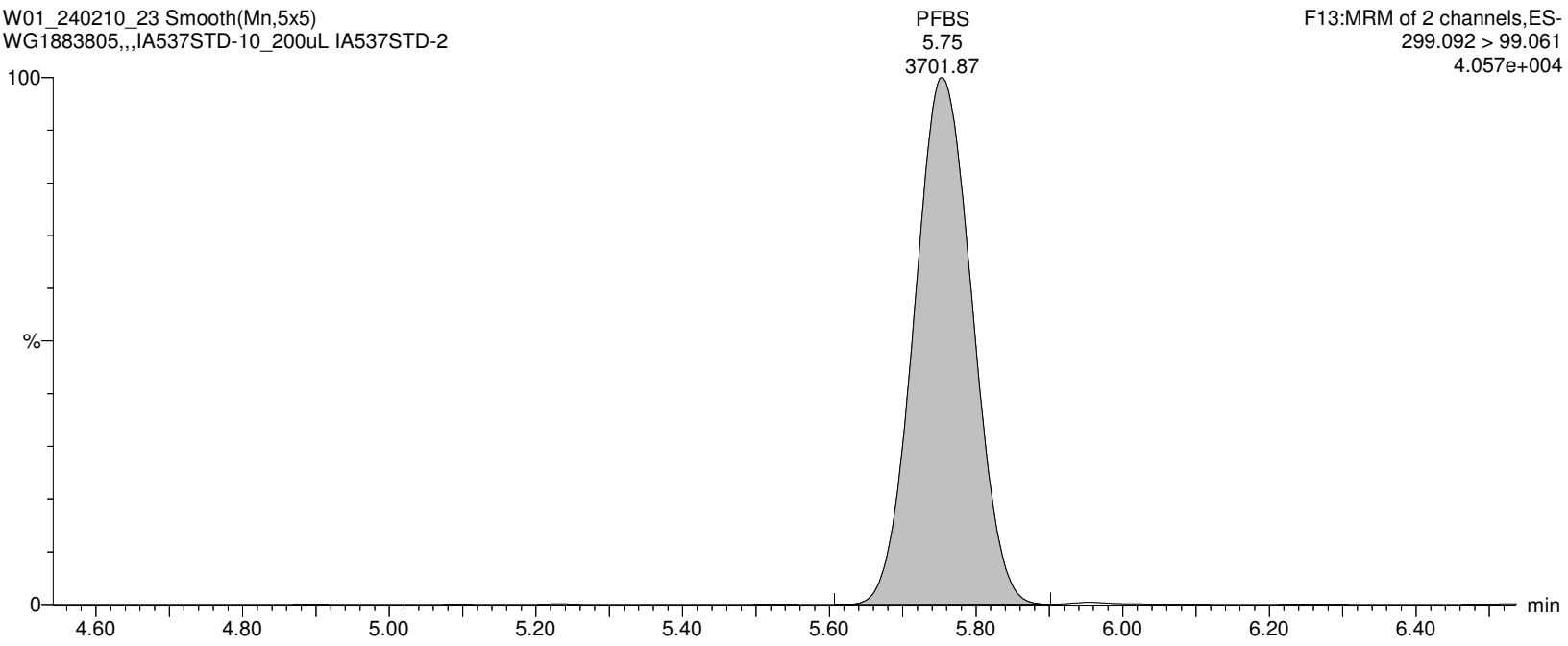

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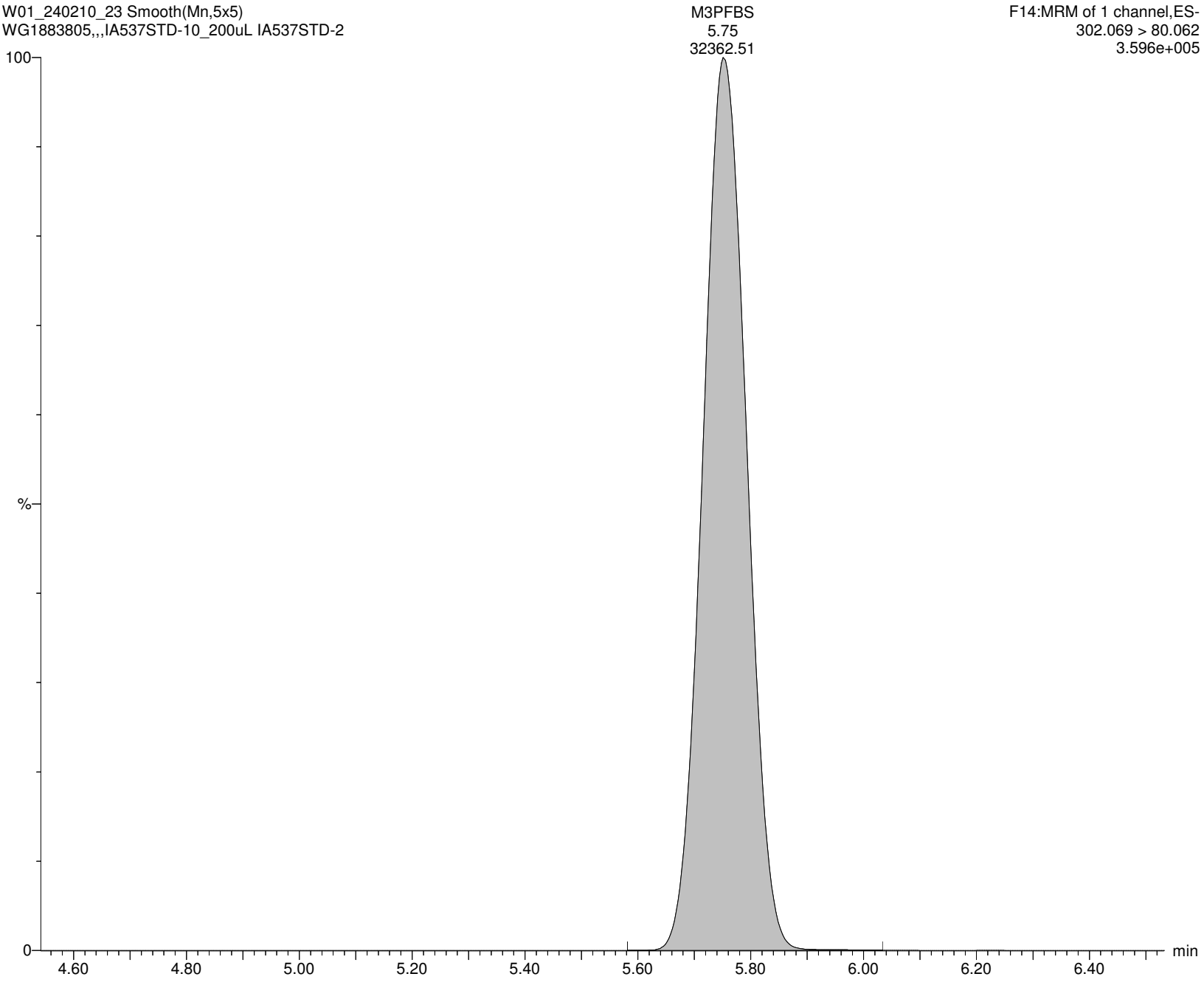

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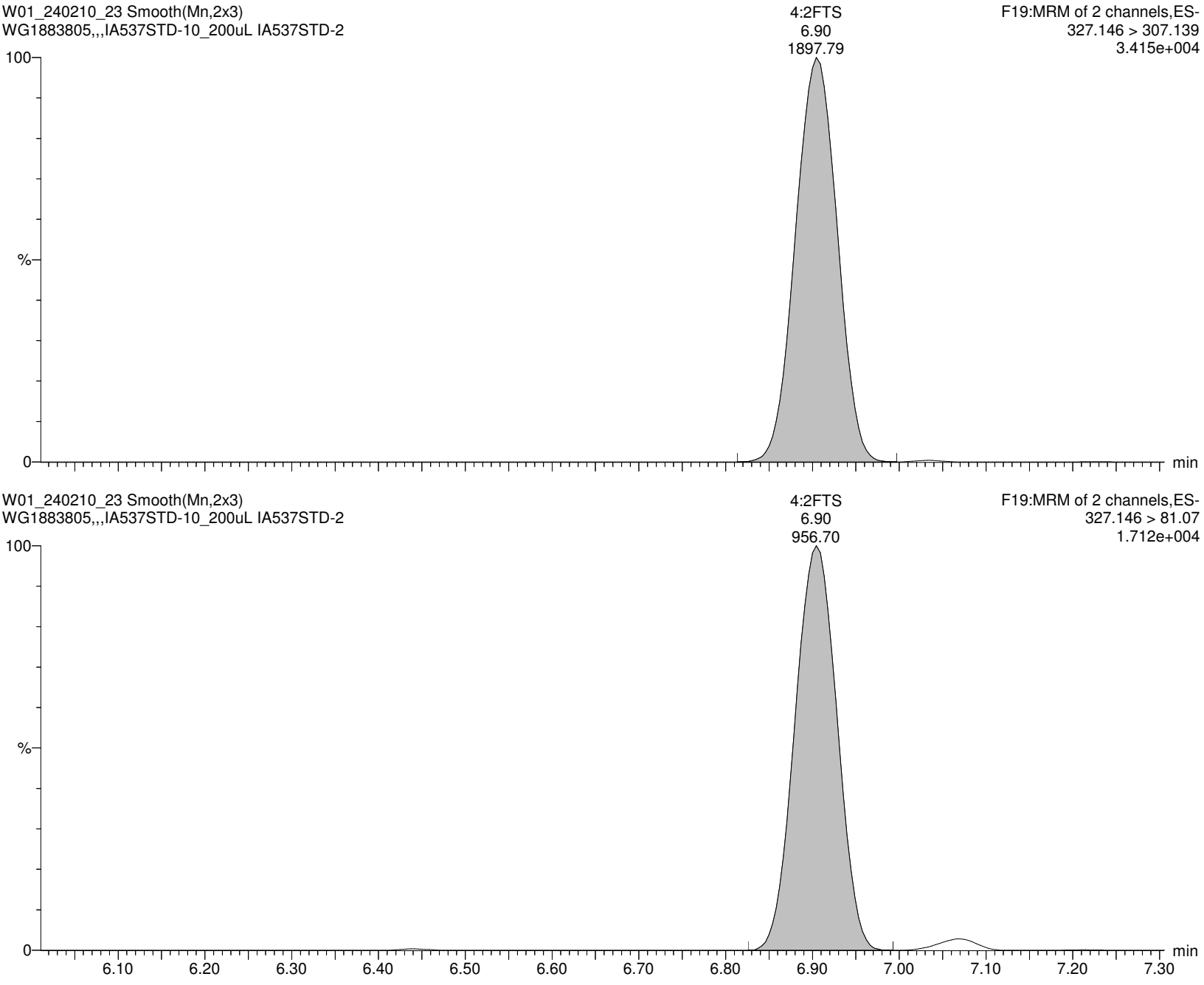

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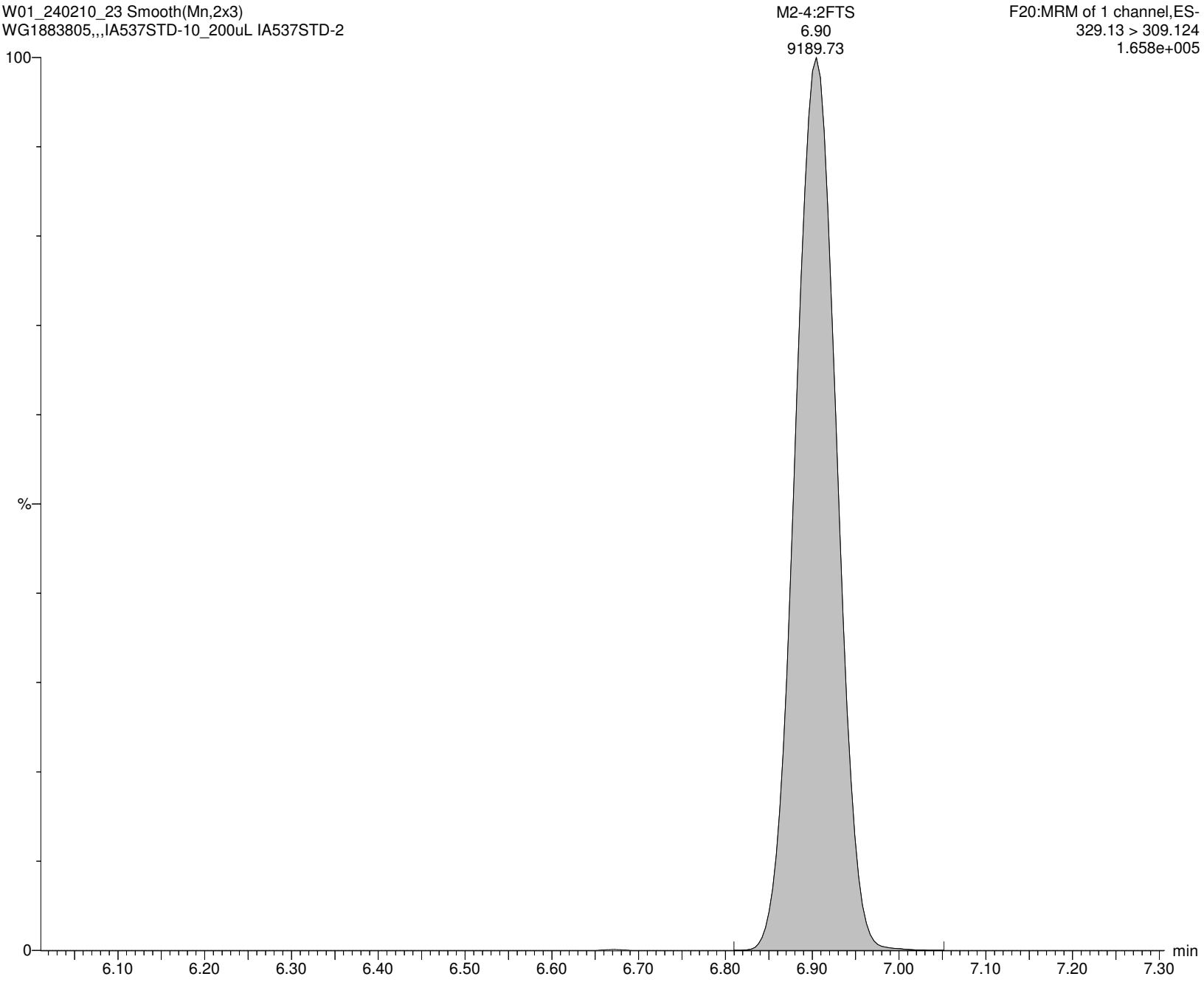

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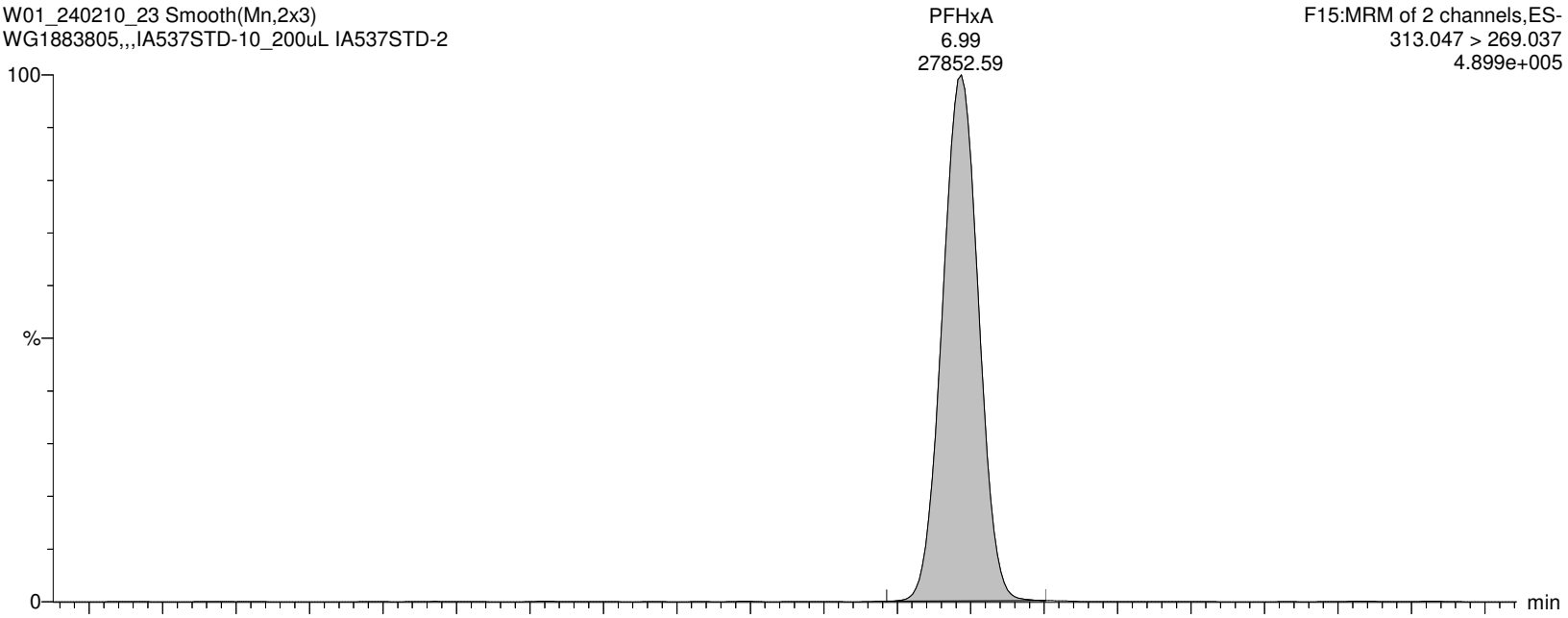

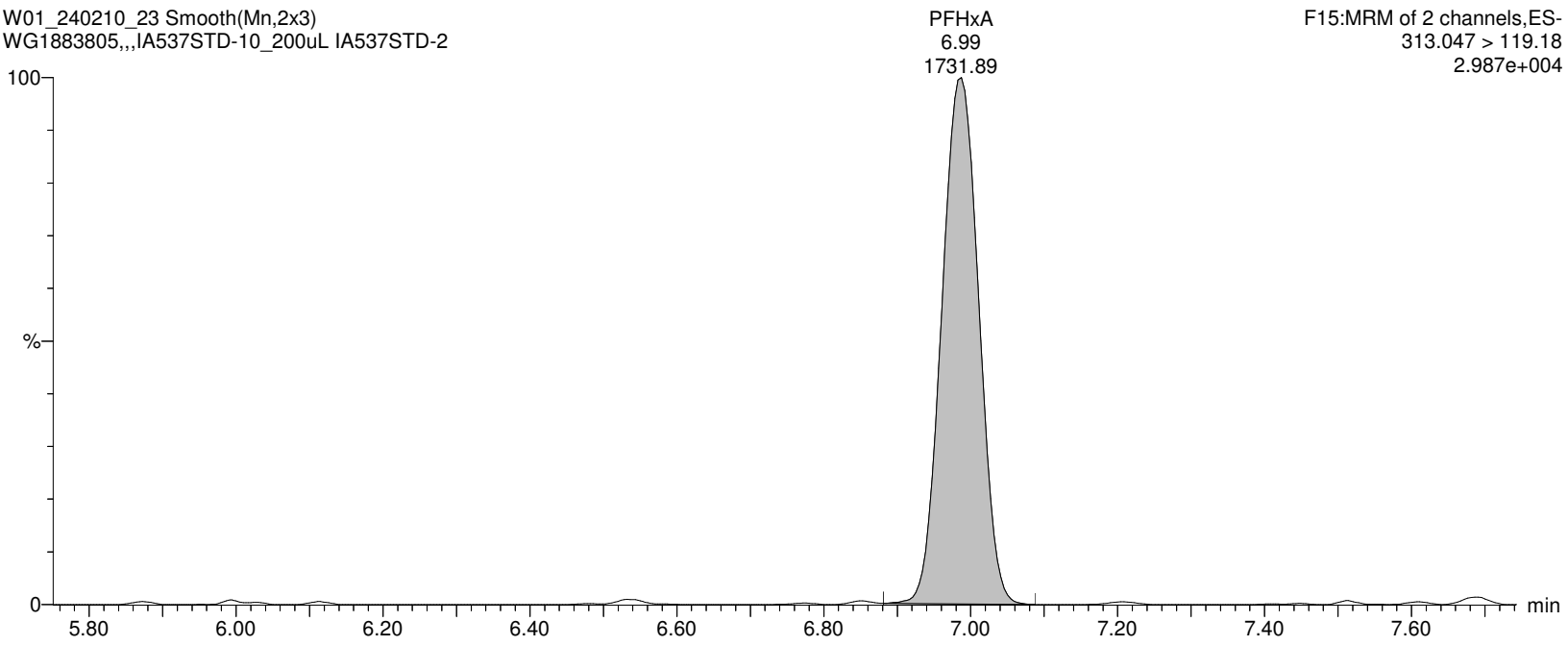

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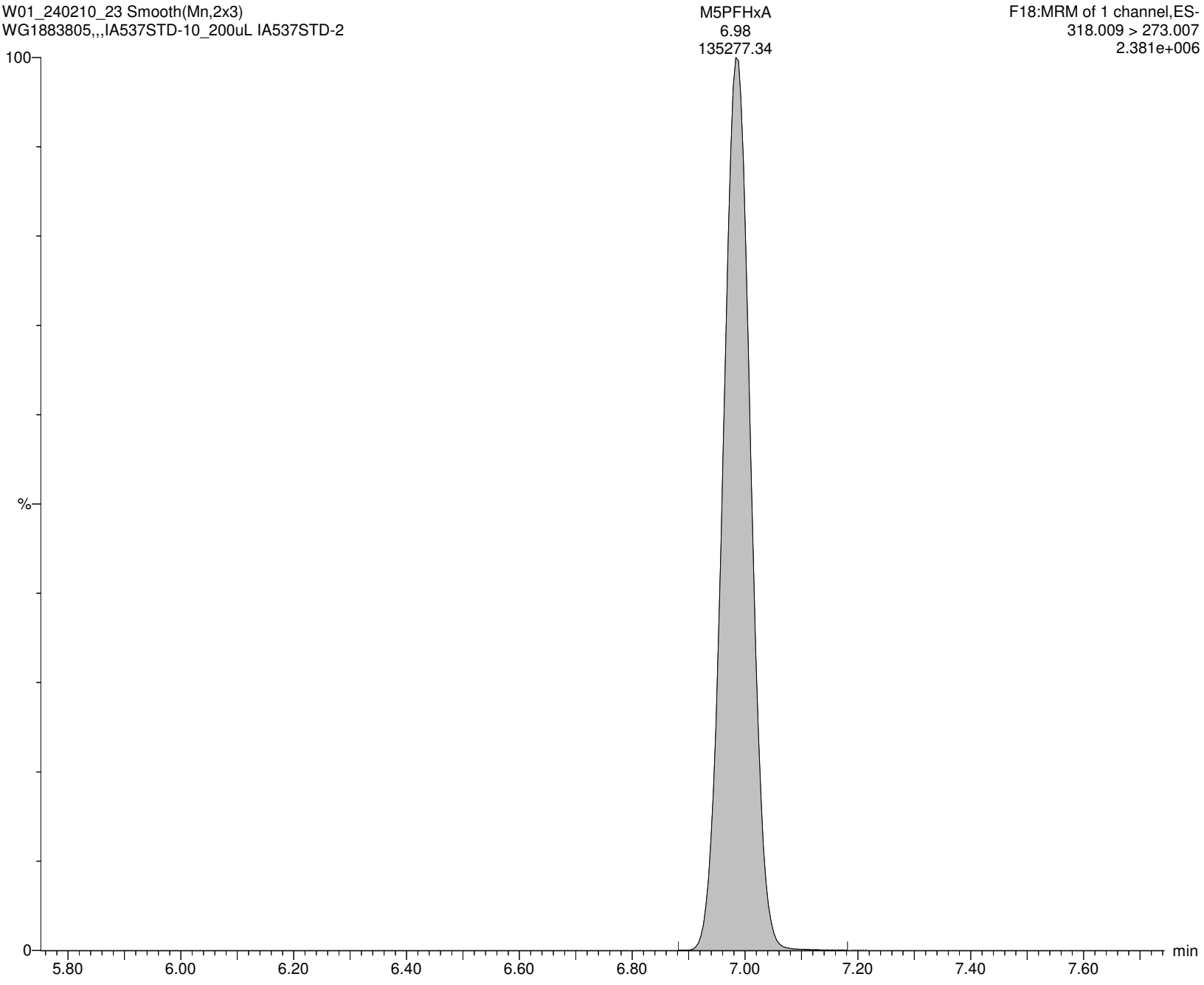

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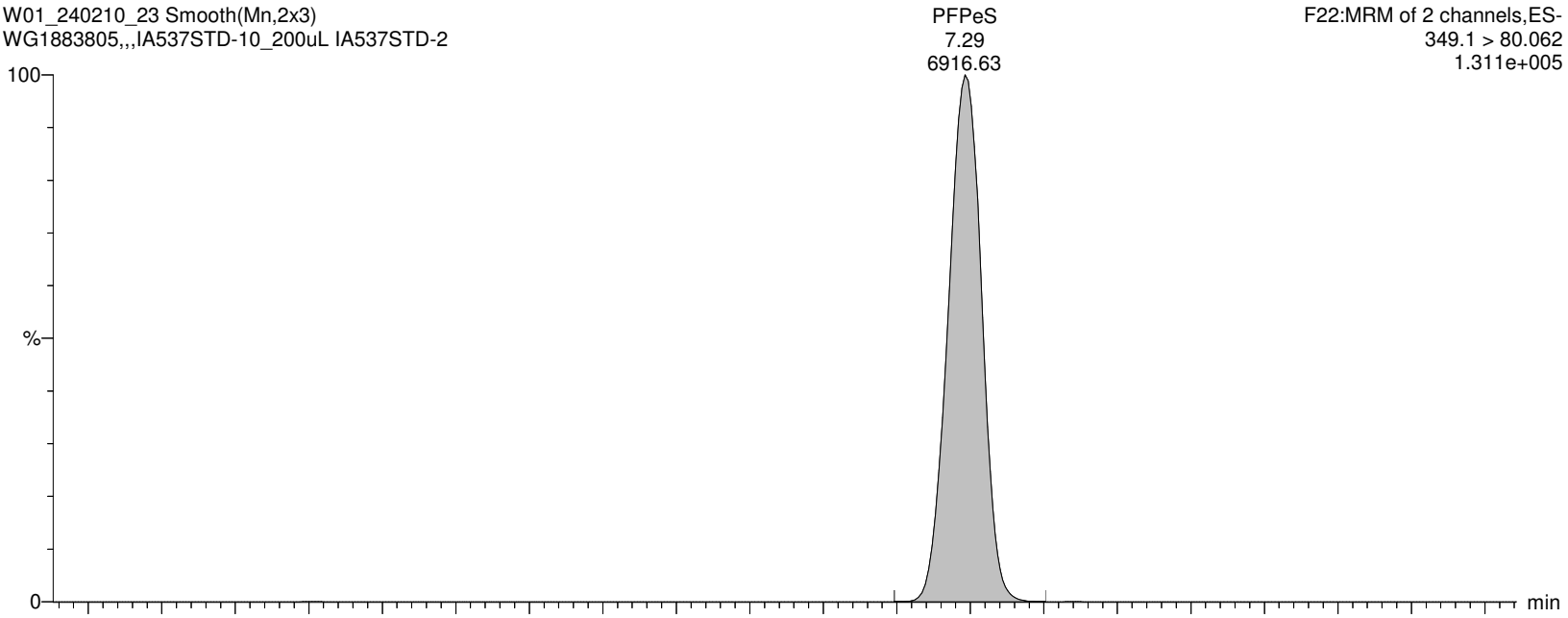

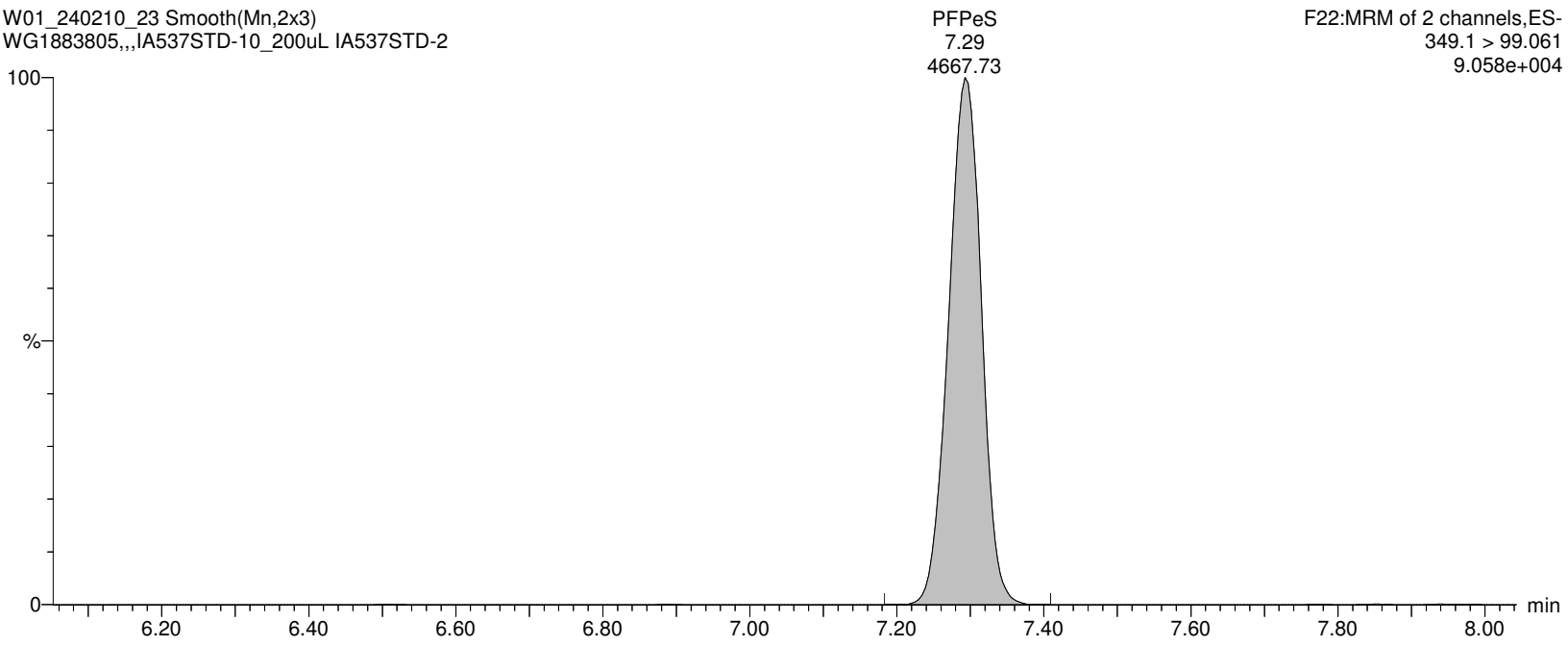

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Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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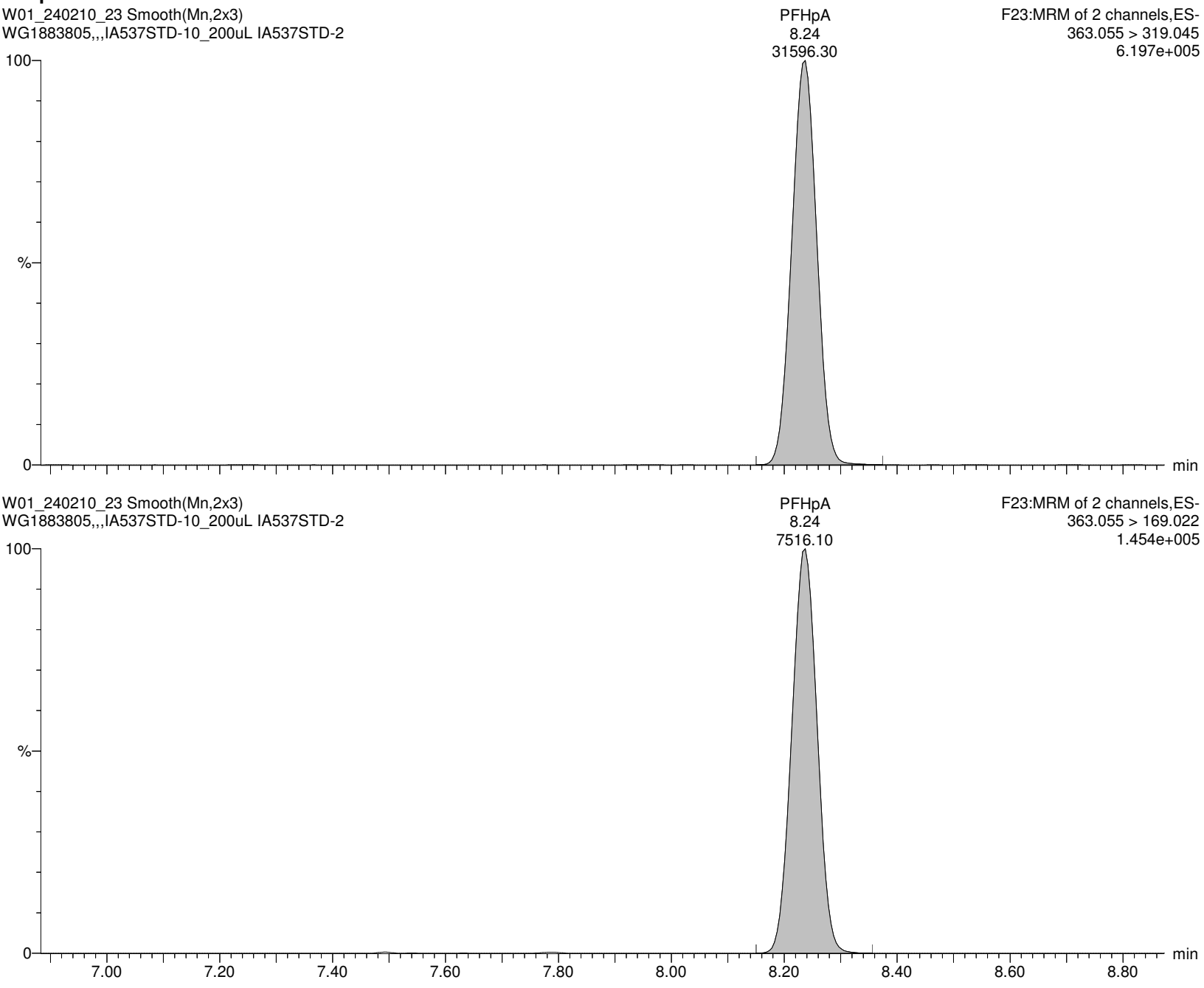

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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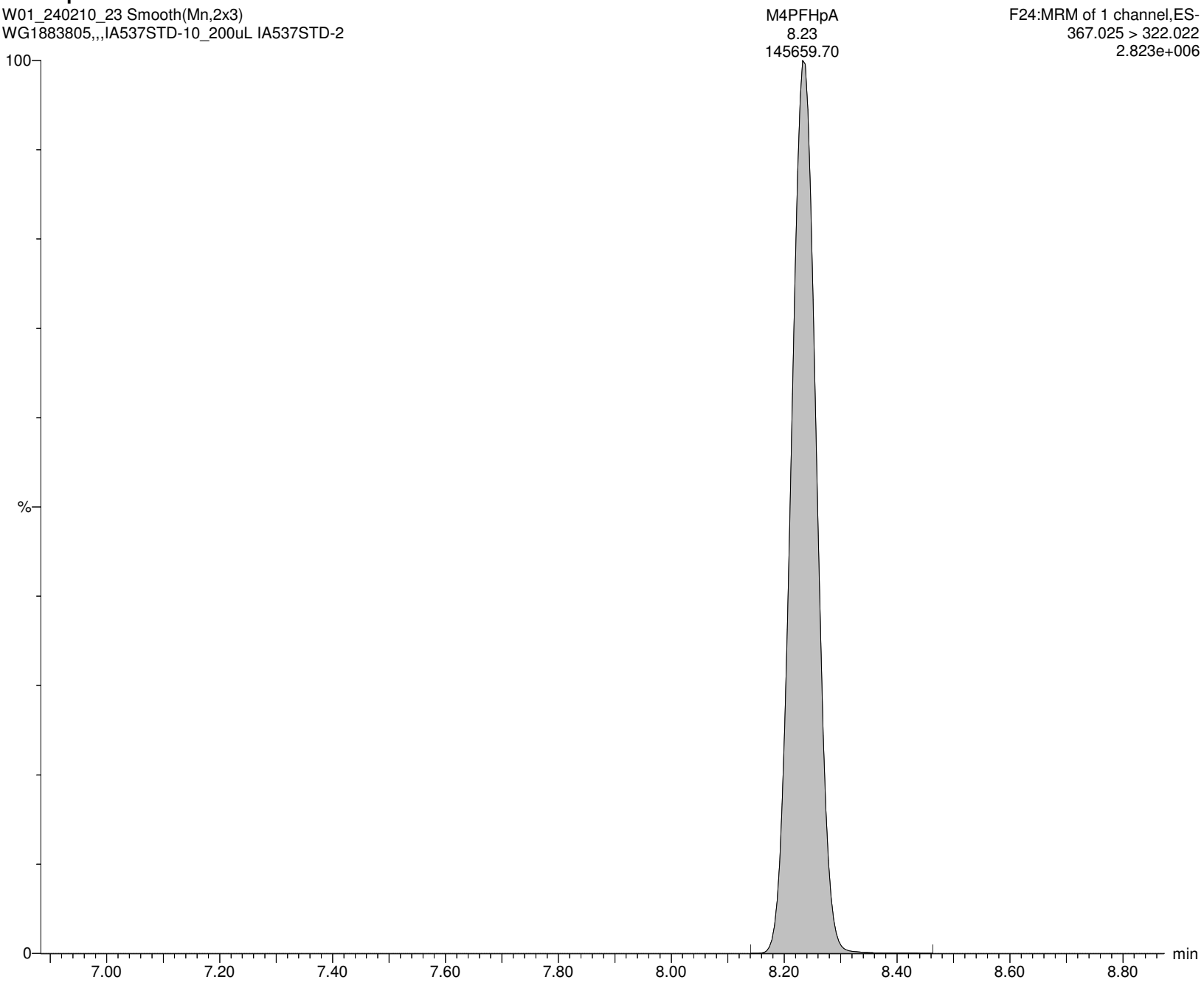

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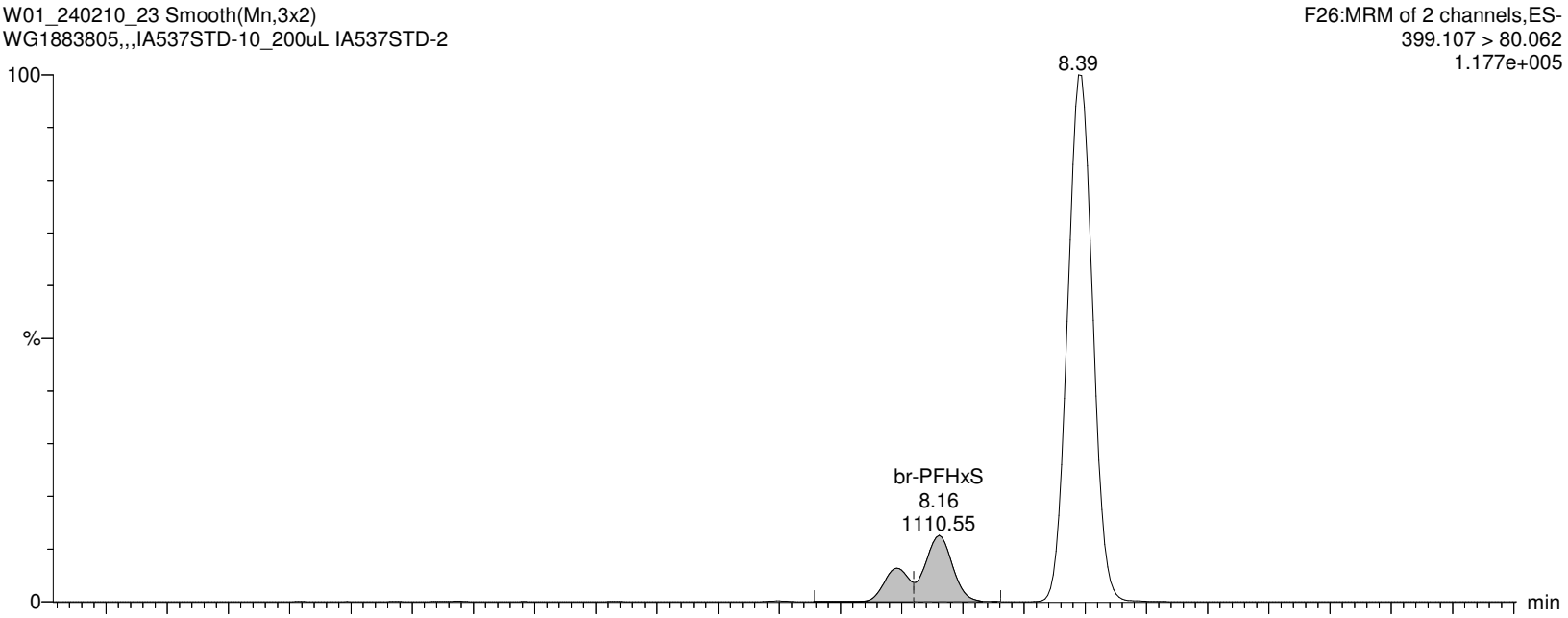

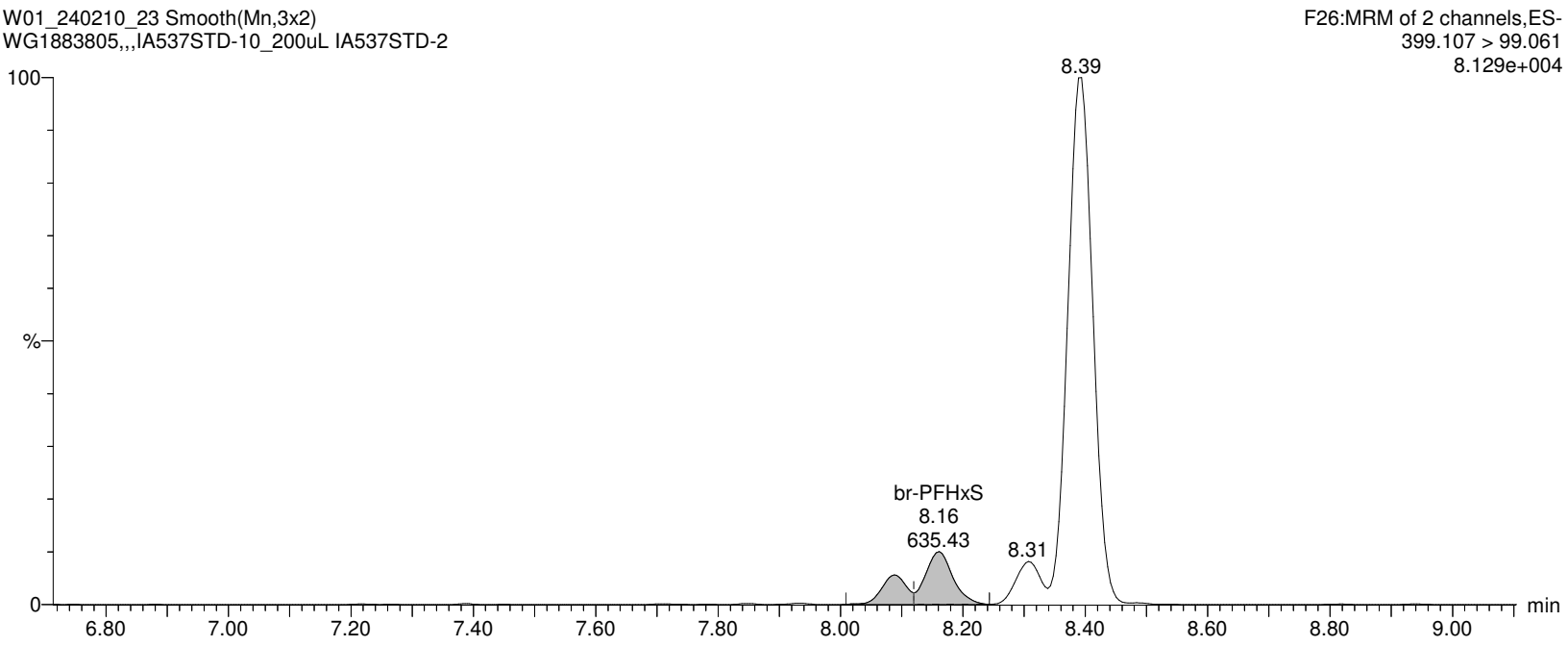

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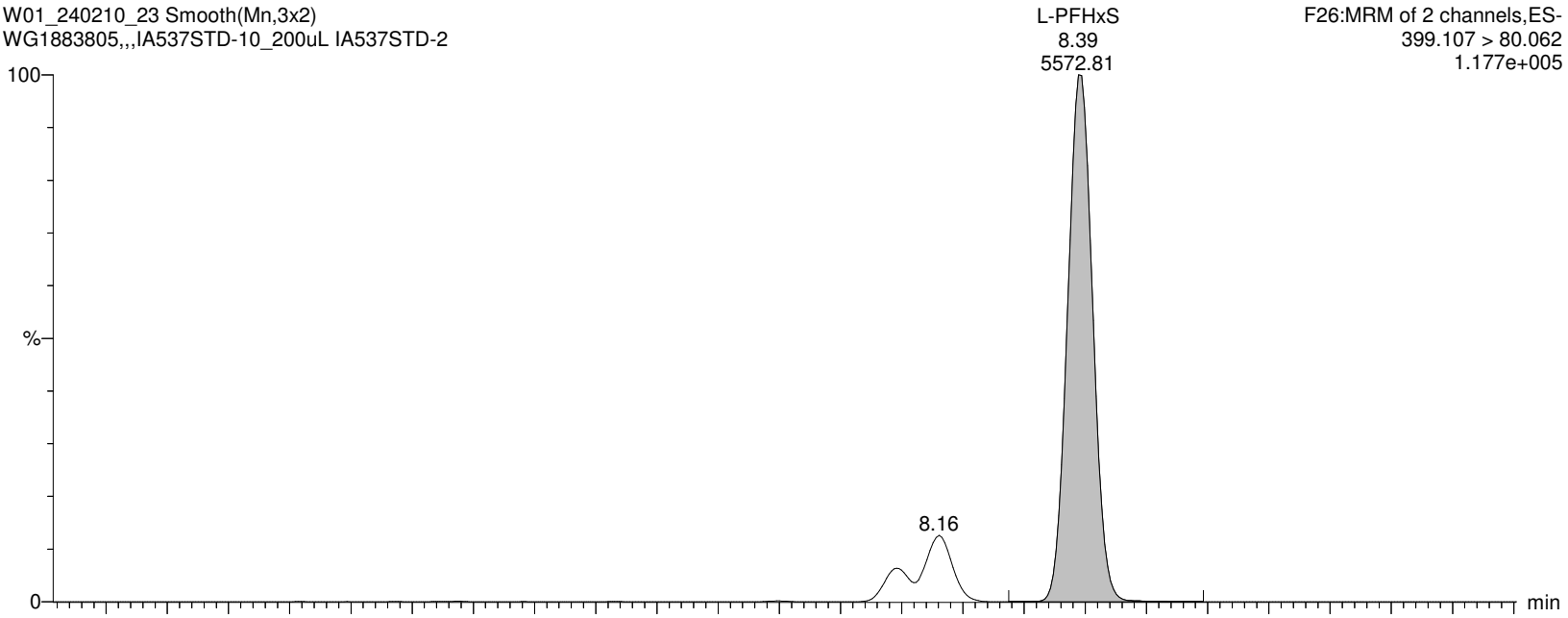

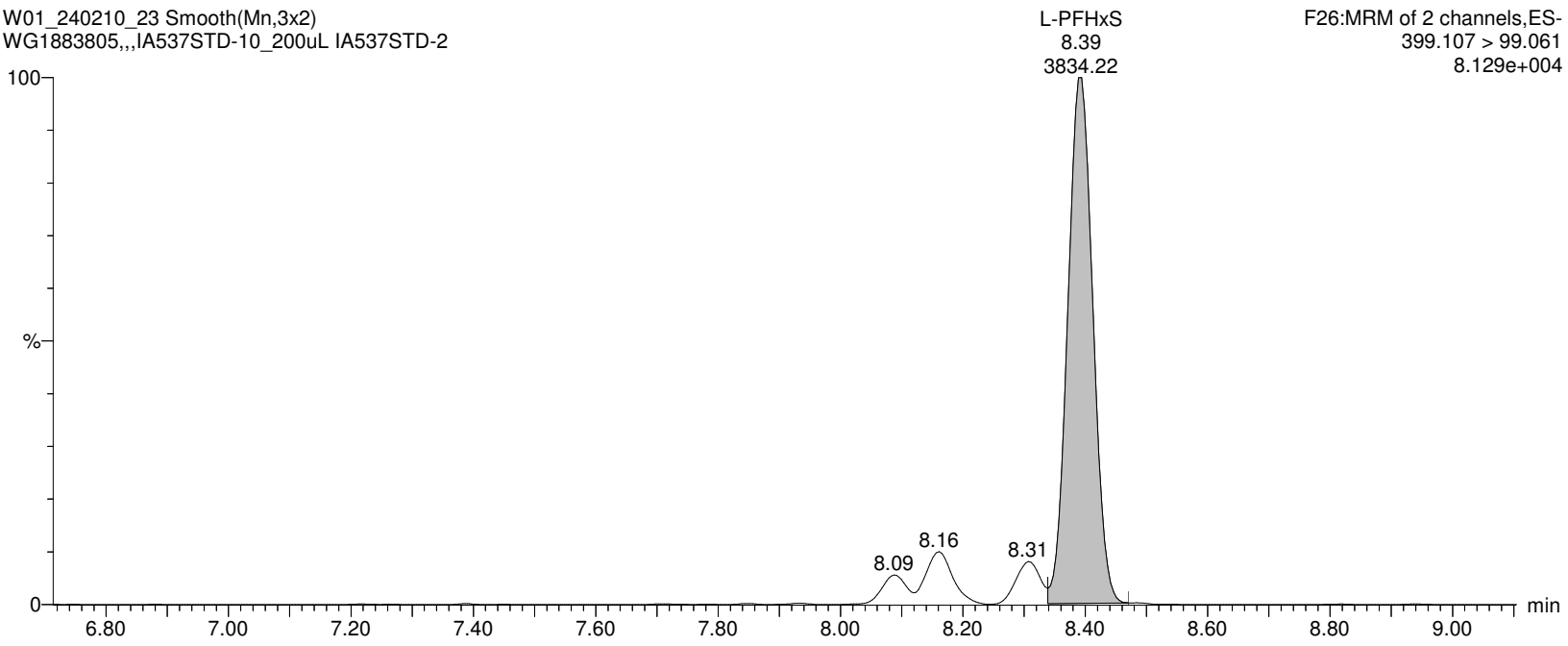

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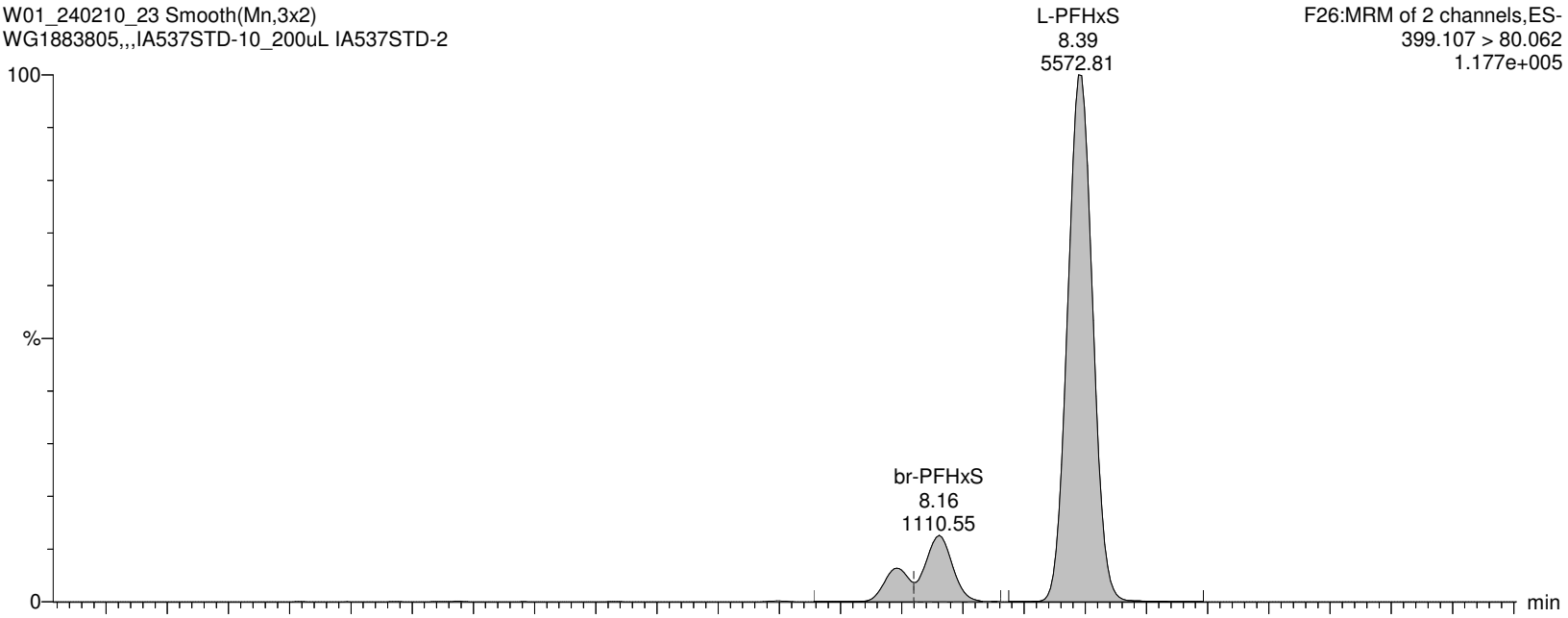

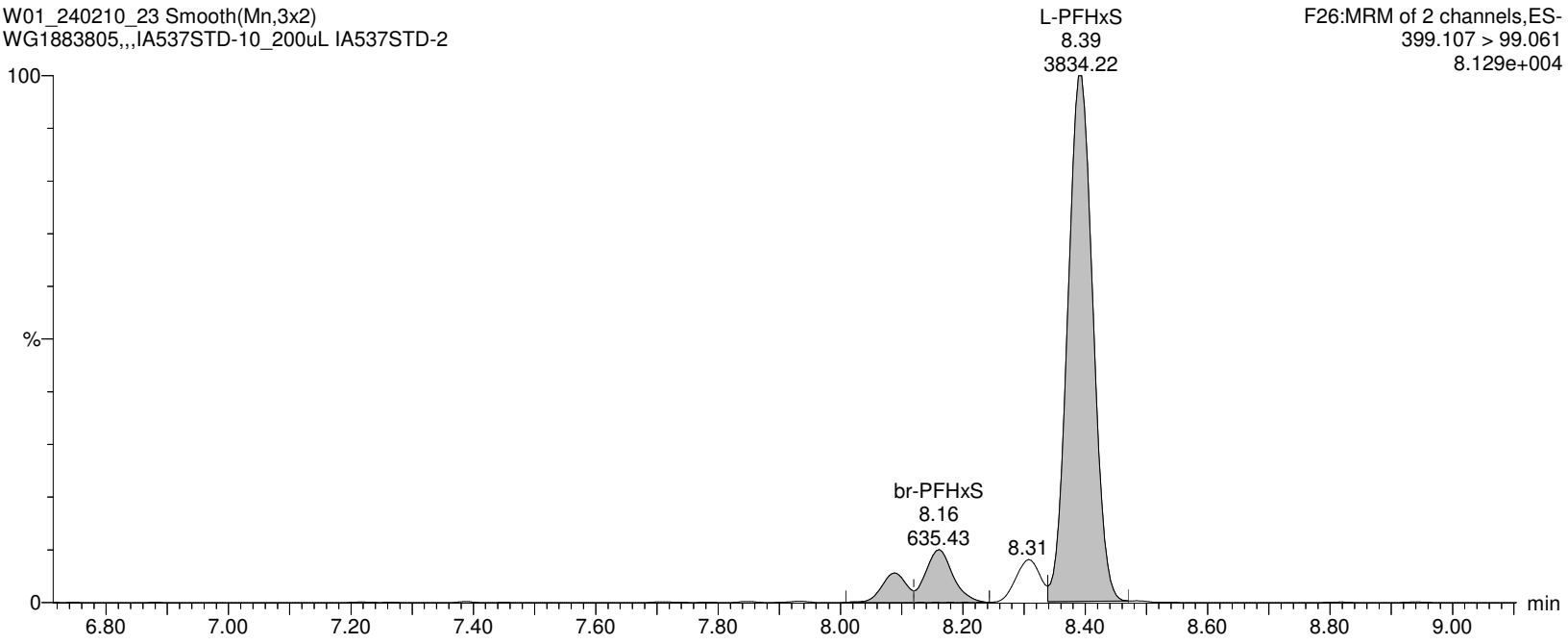

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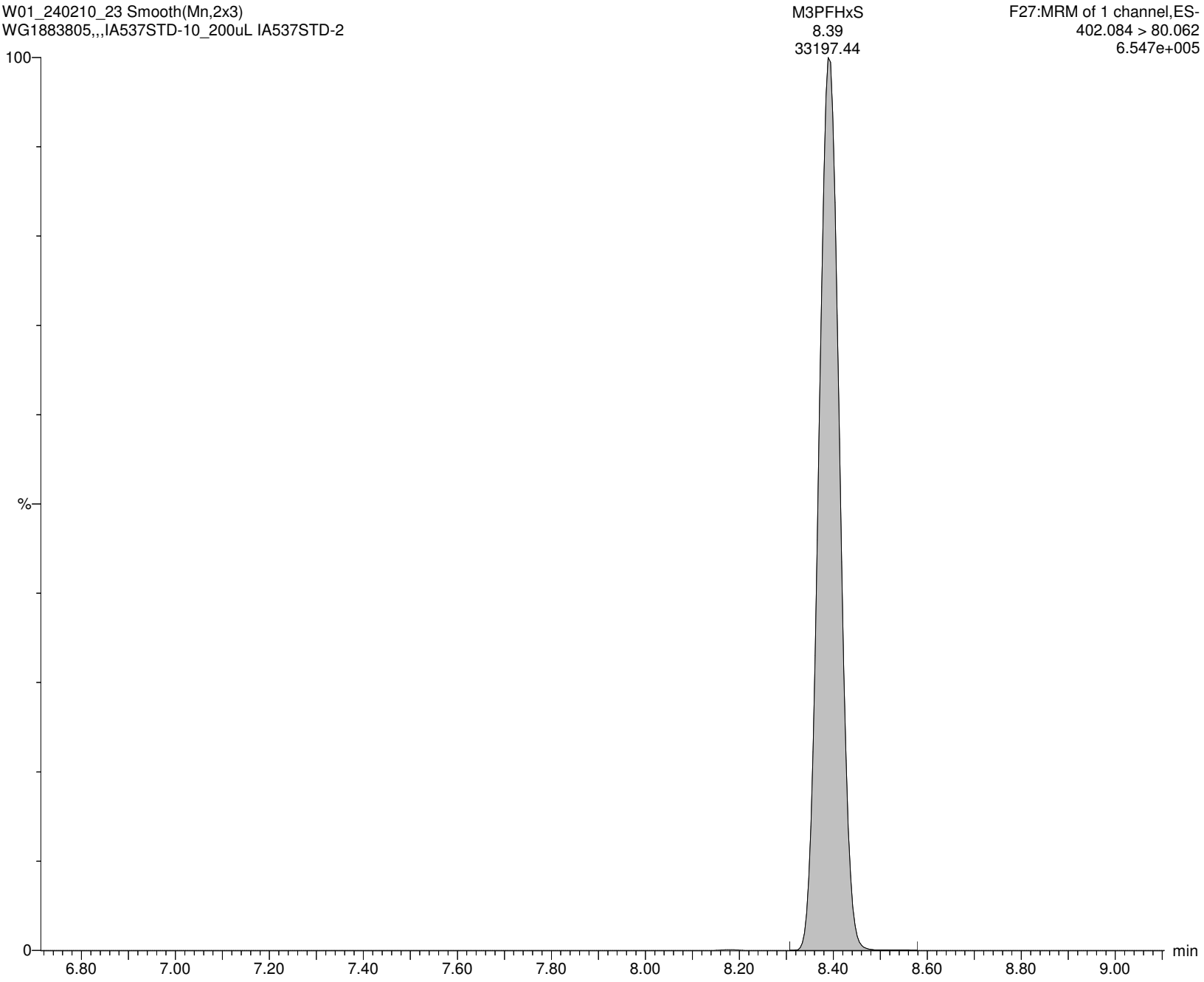

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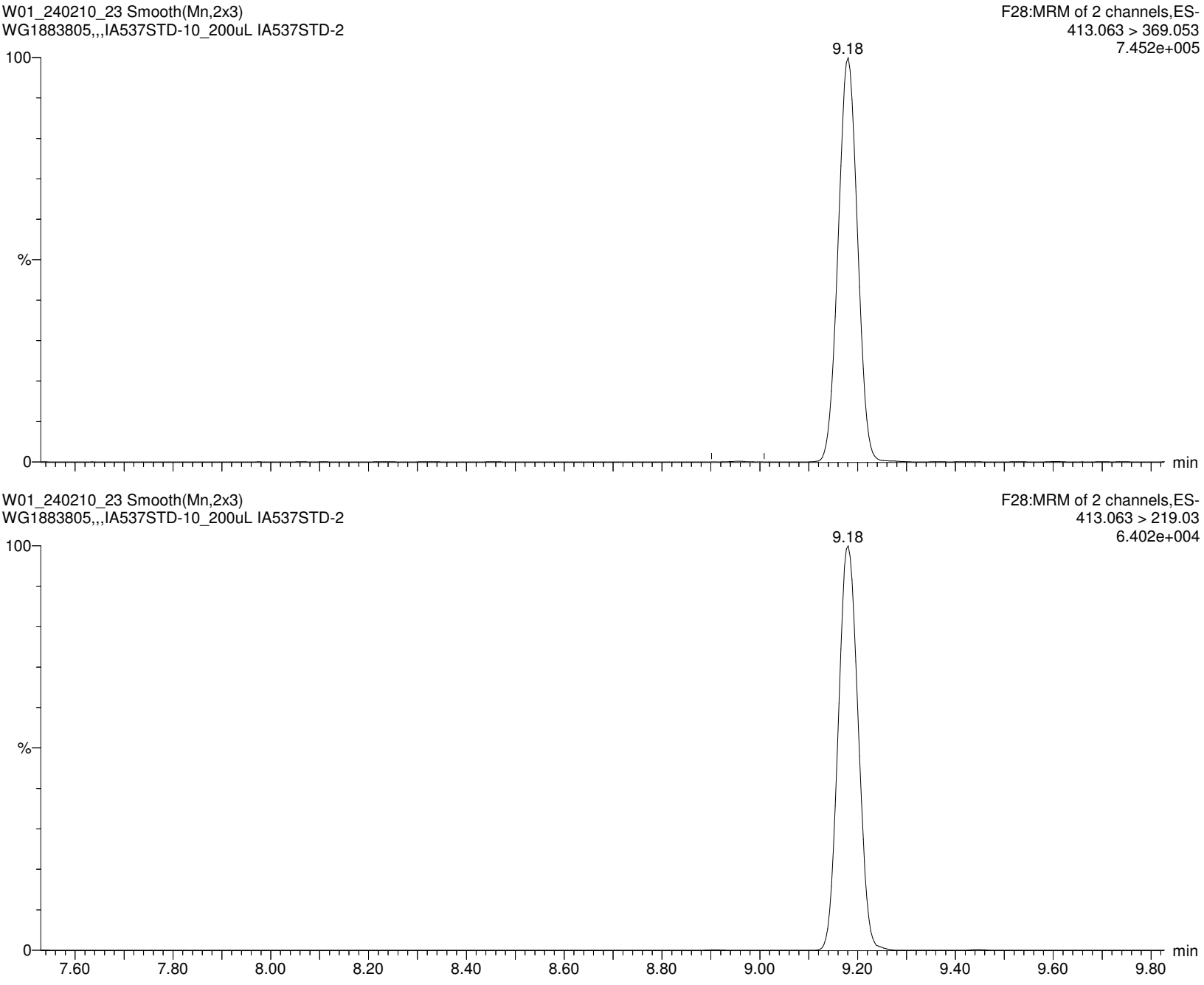

all concentration units in (ng/mL)

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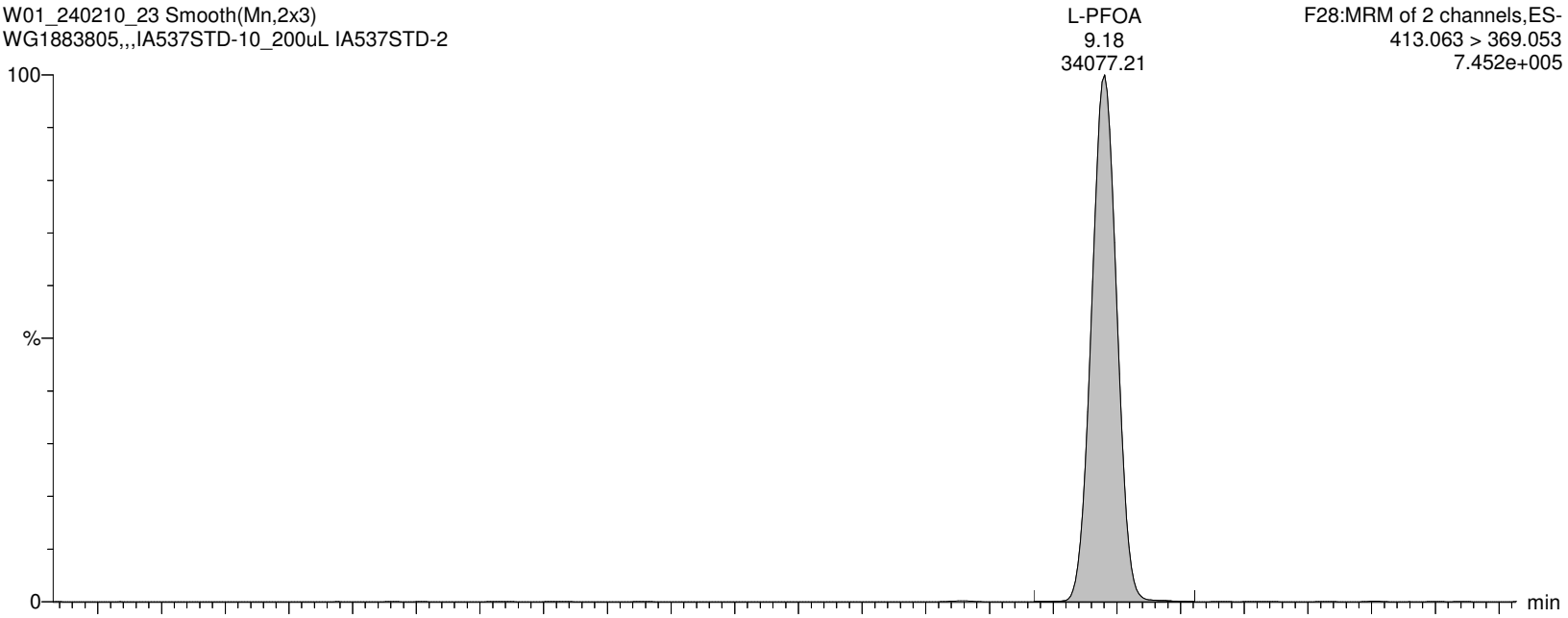

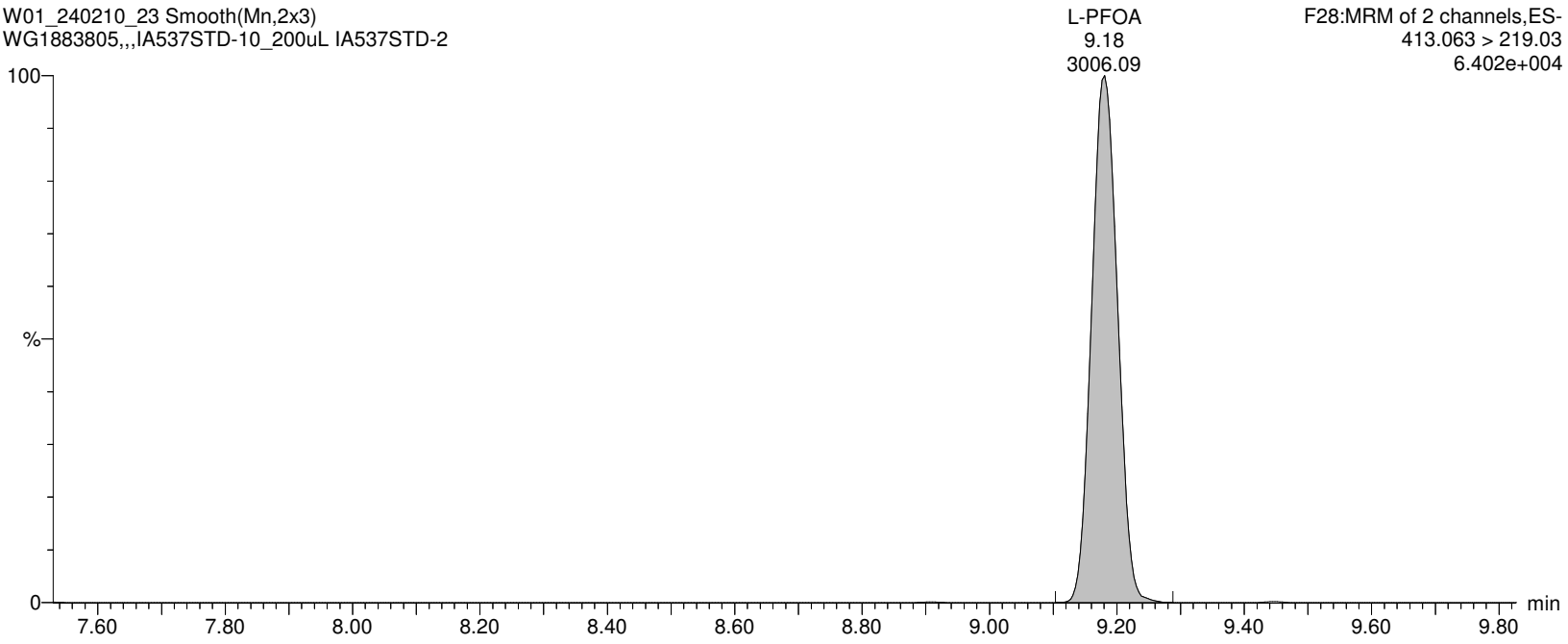

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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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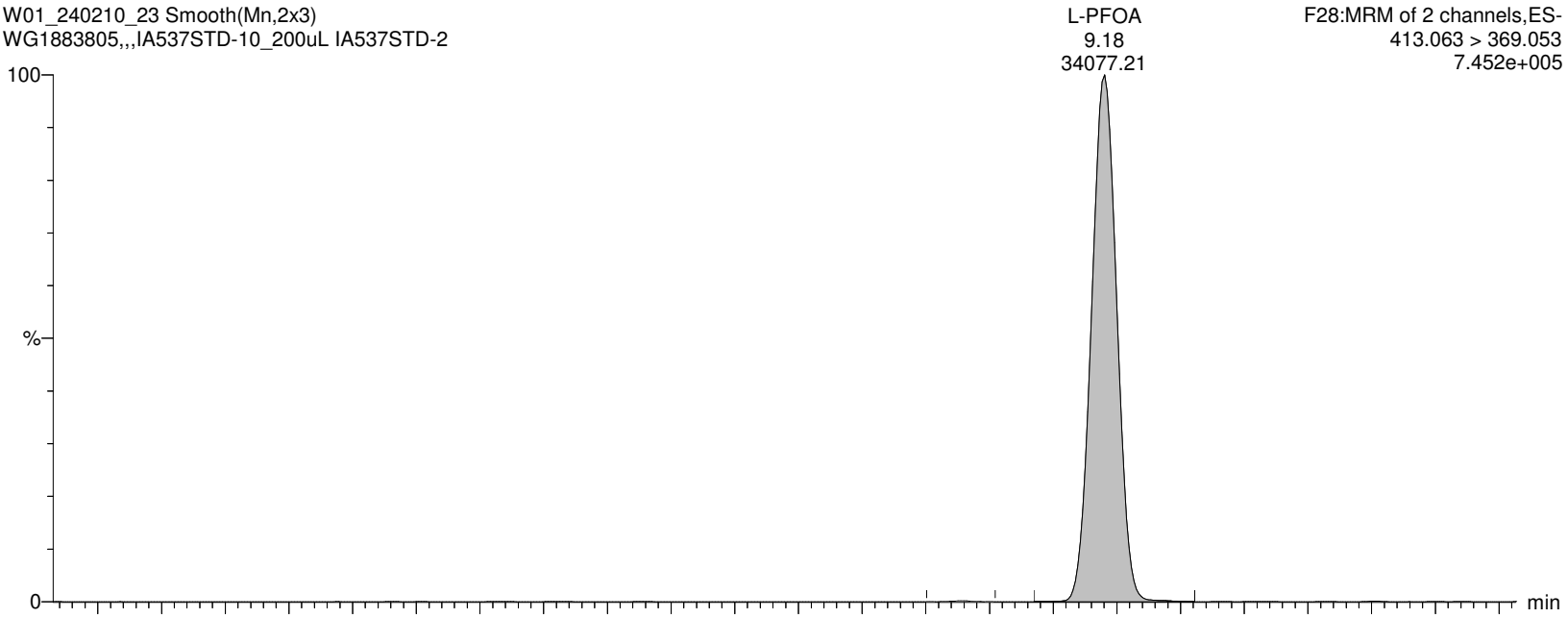

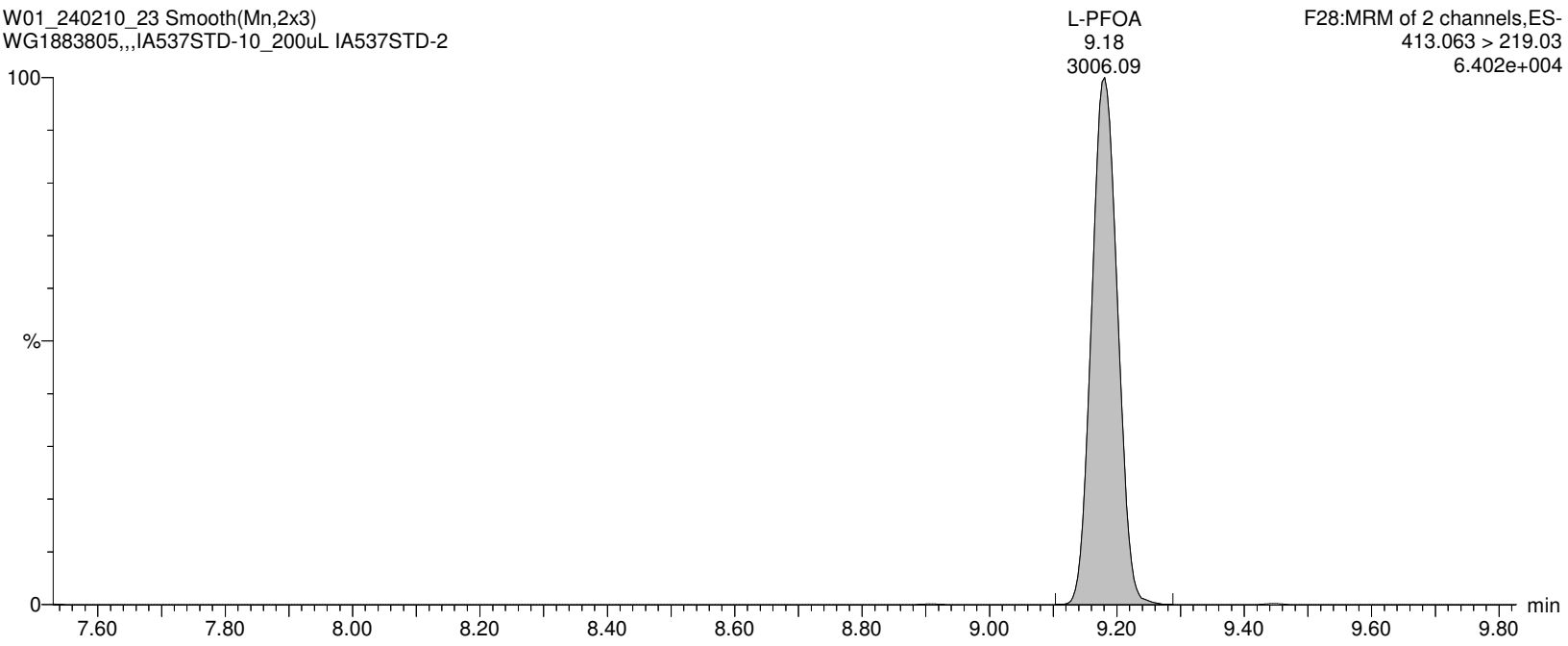

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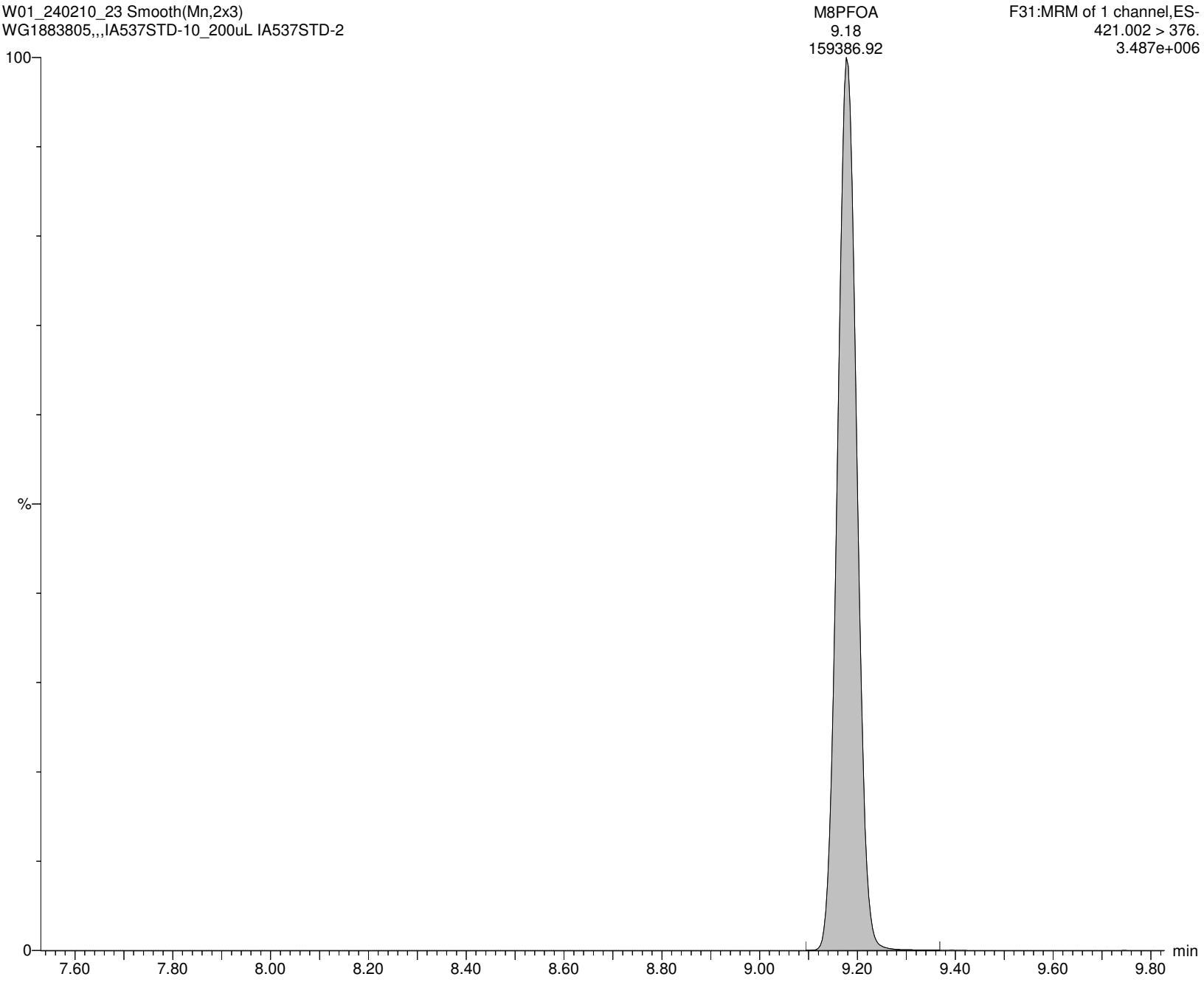

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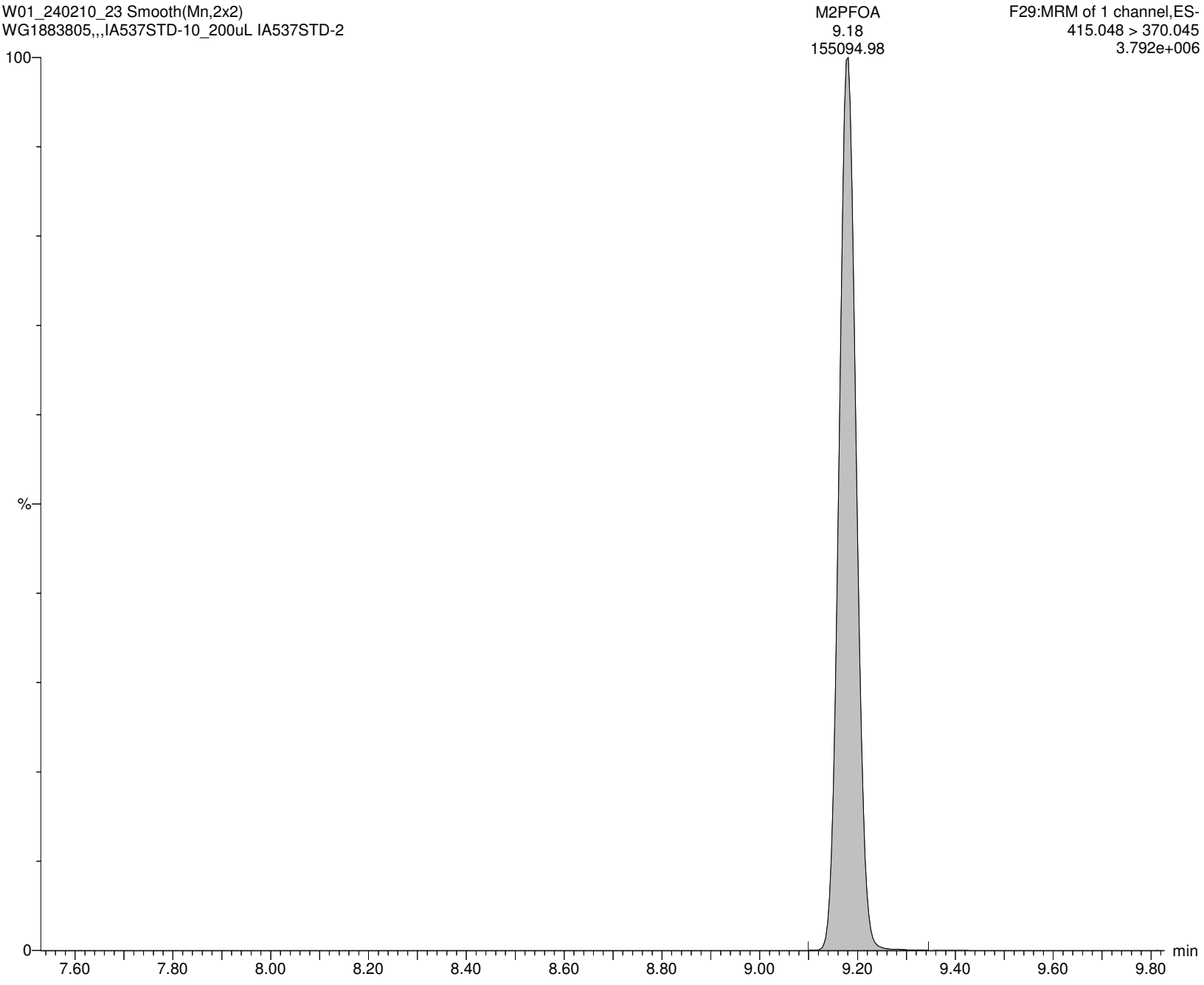

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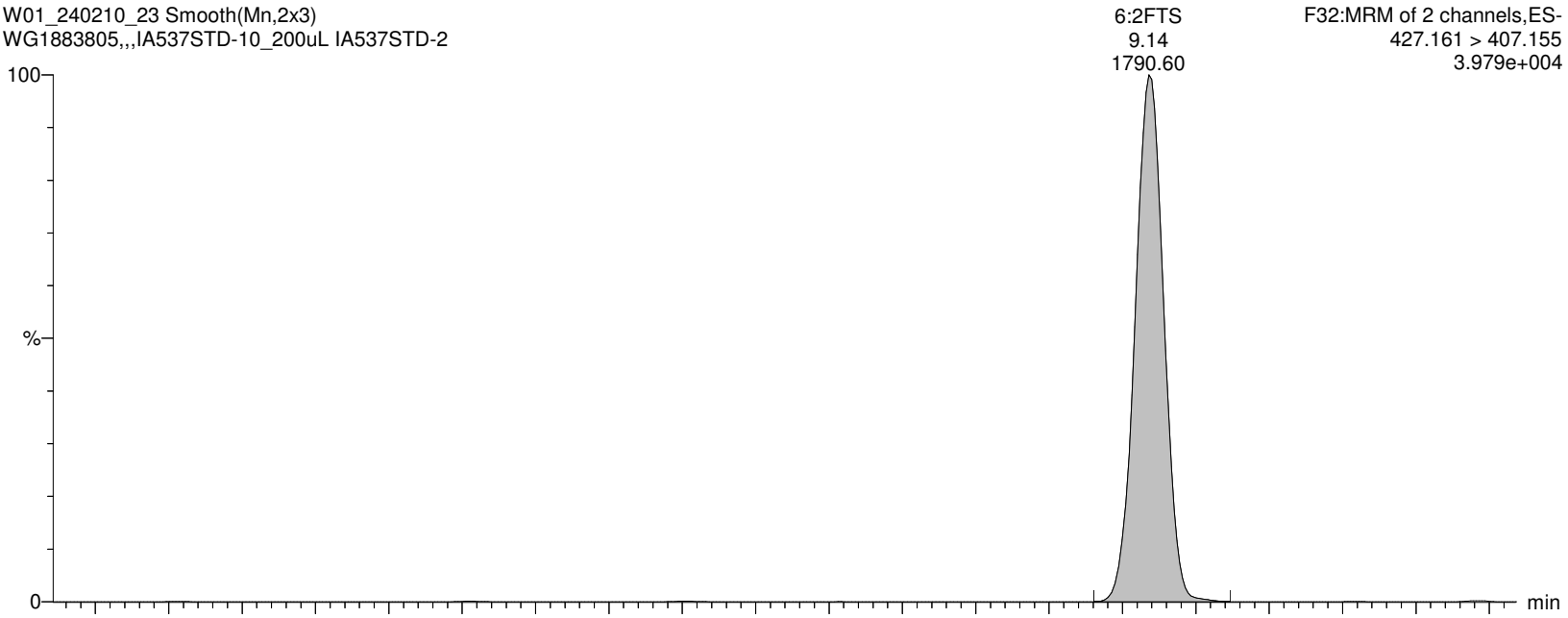

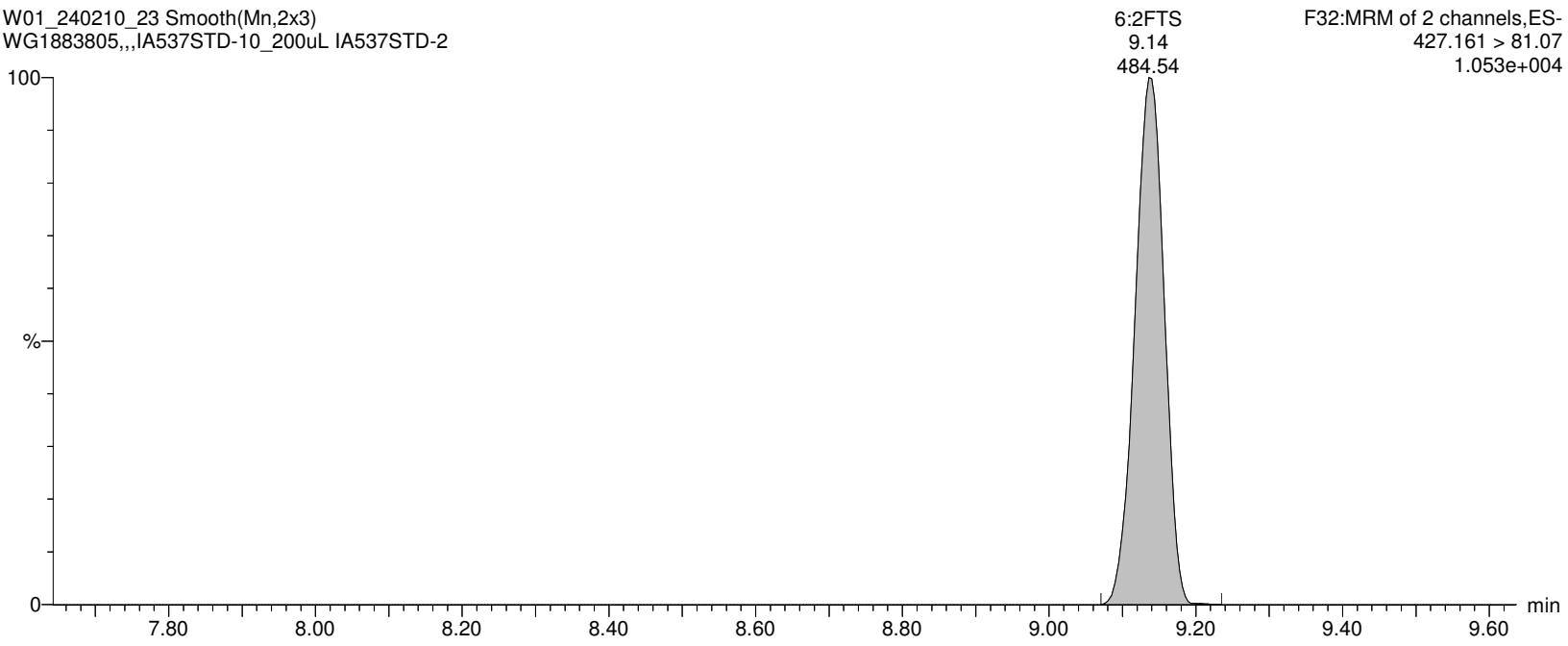

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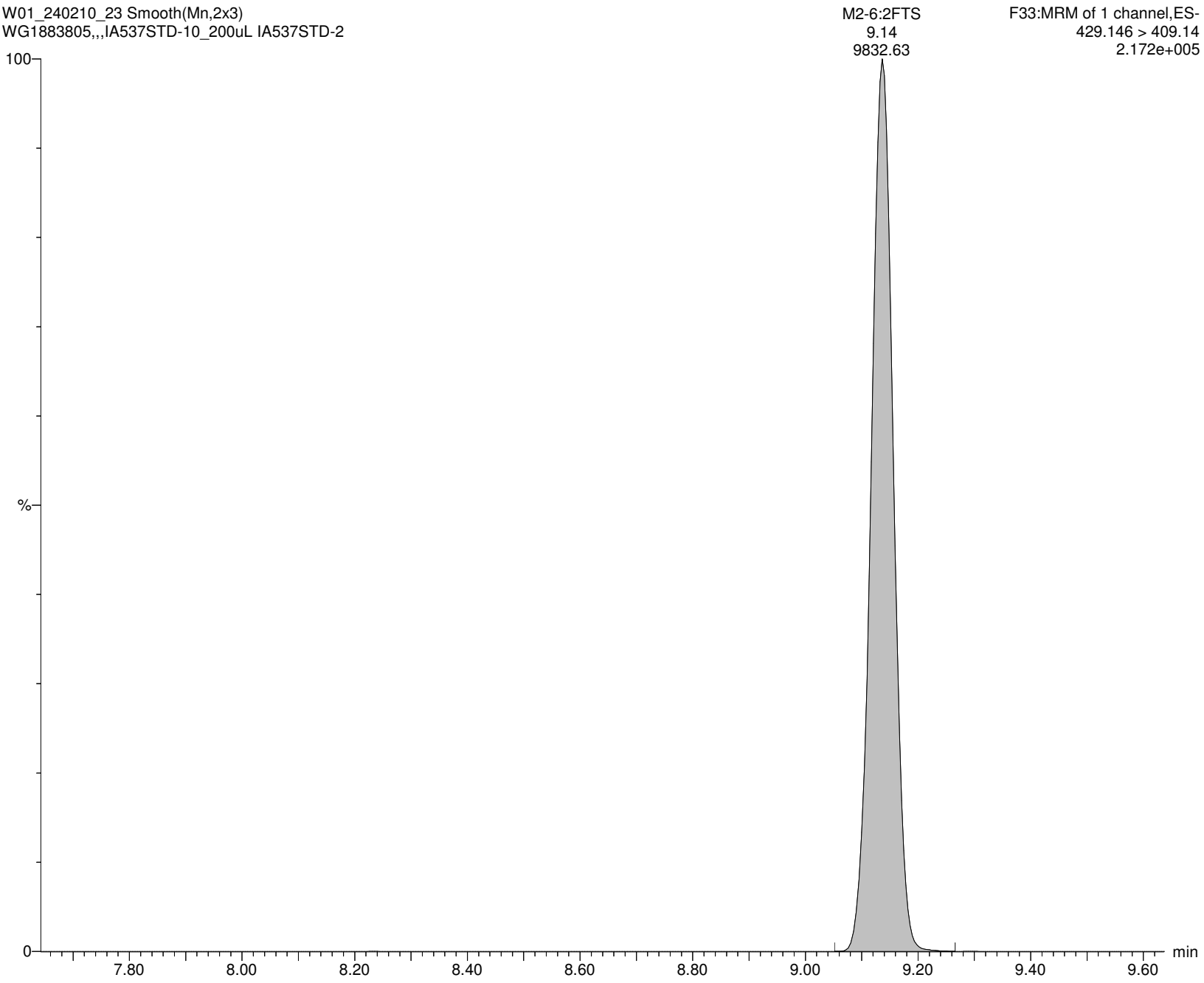

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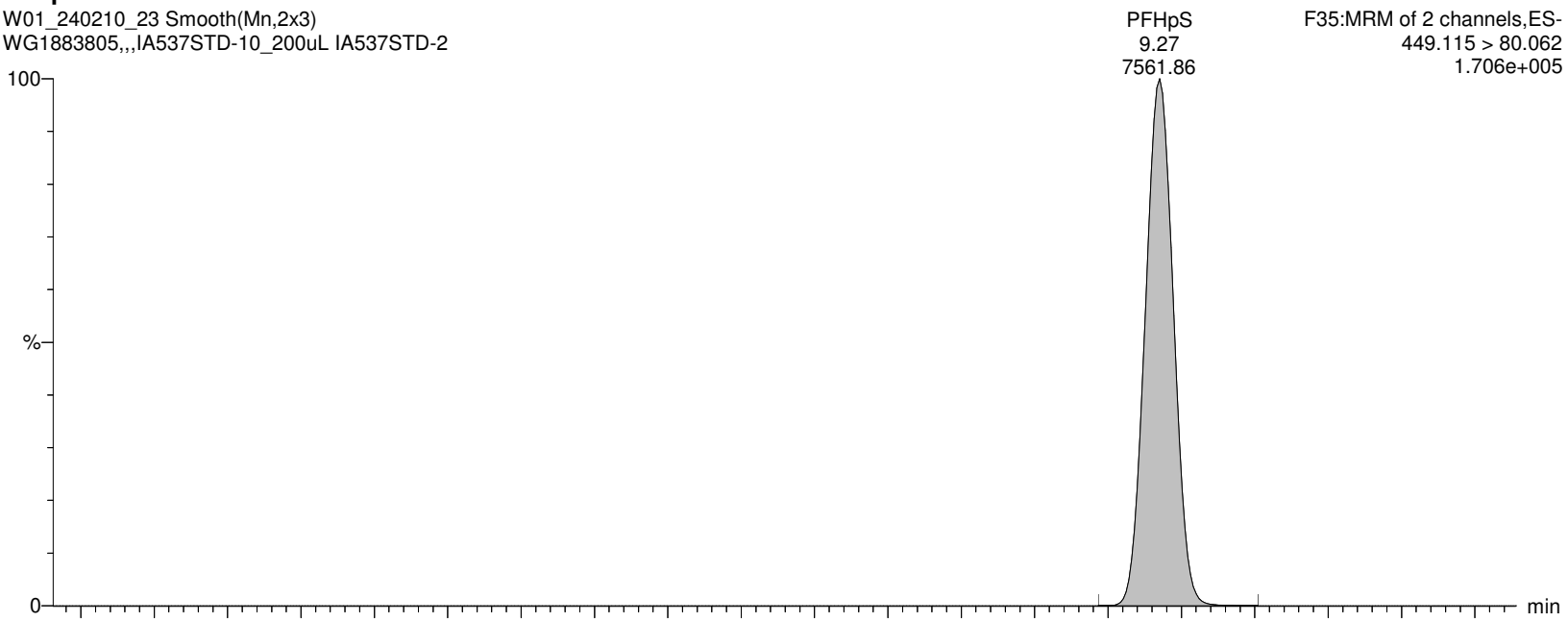

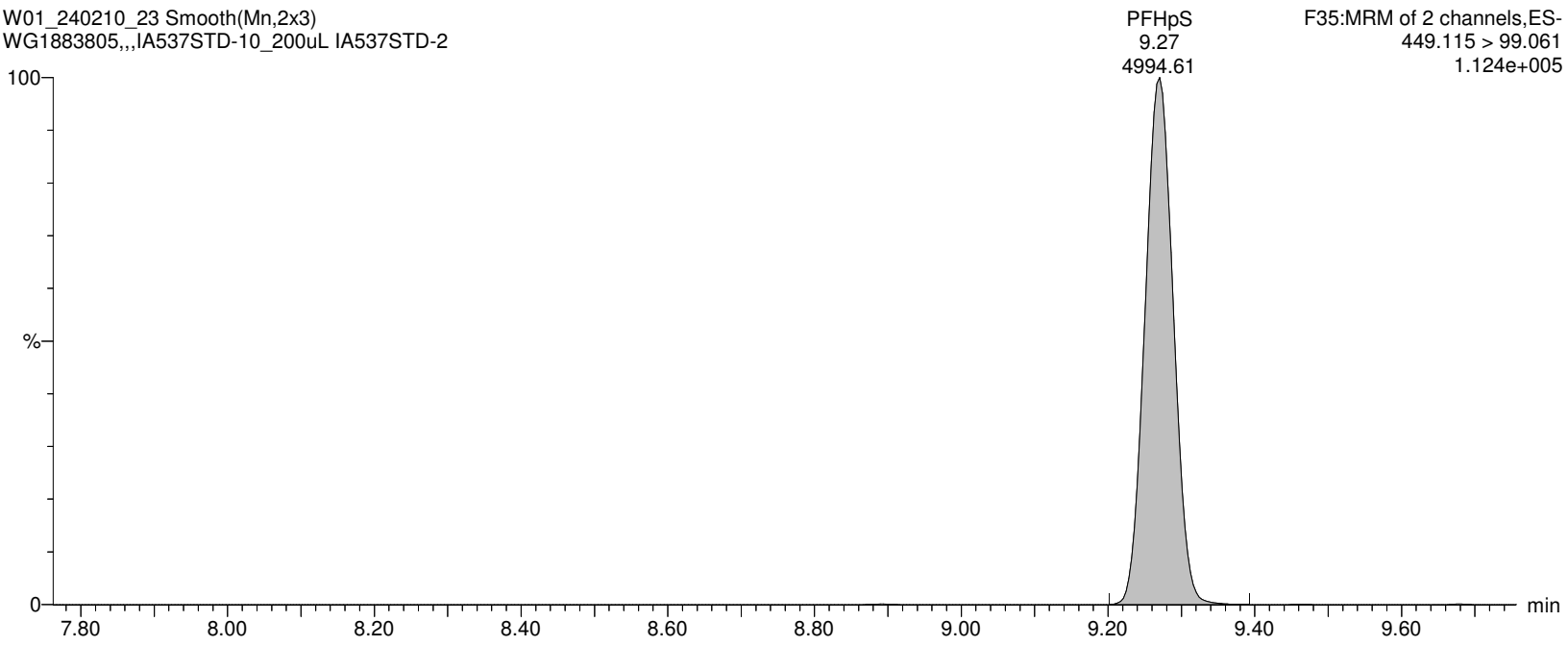

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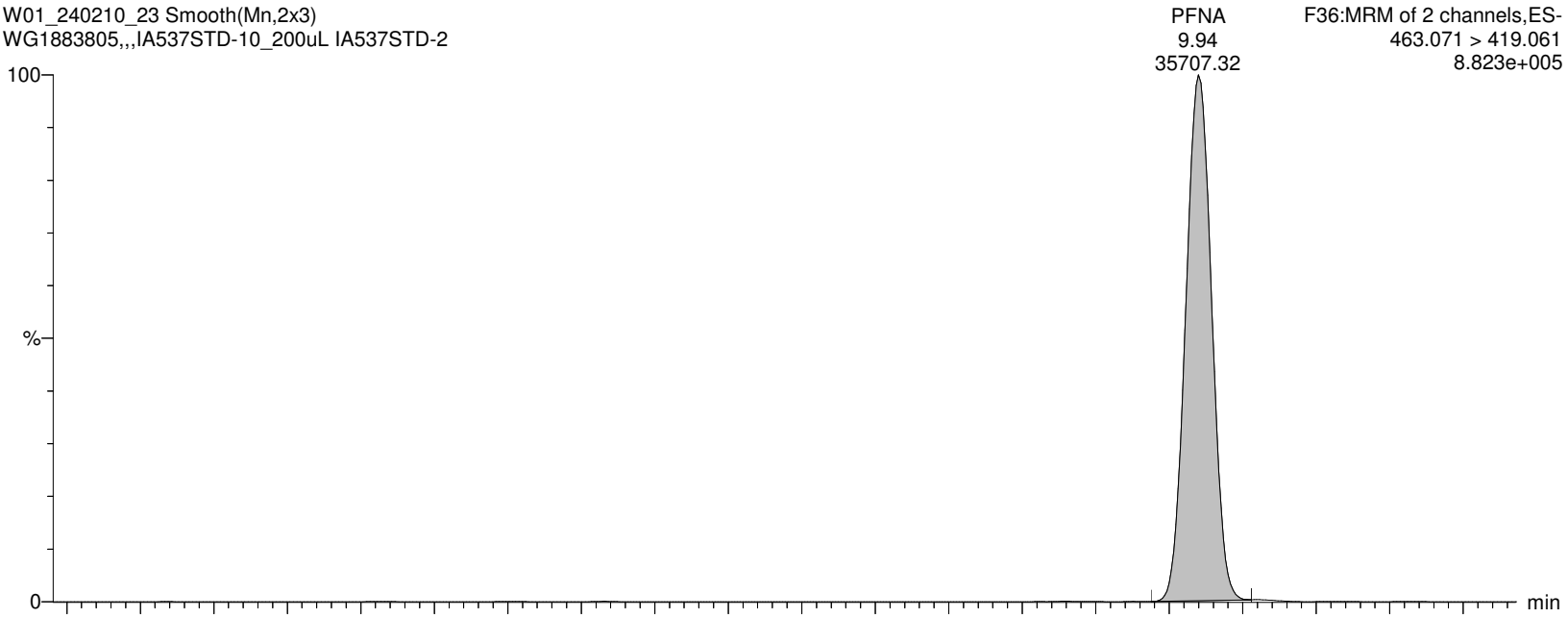

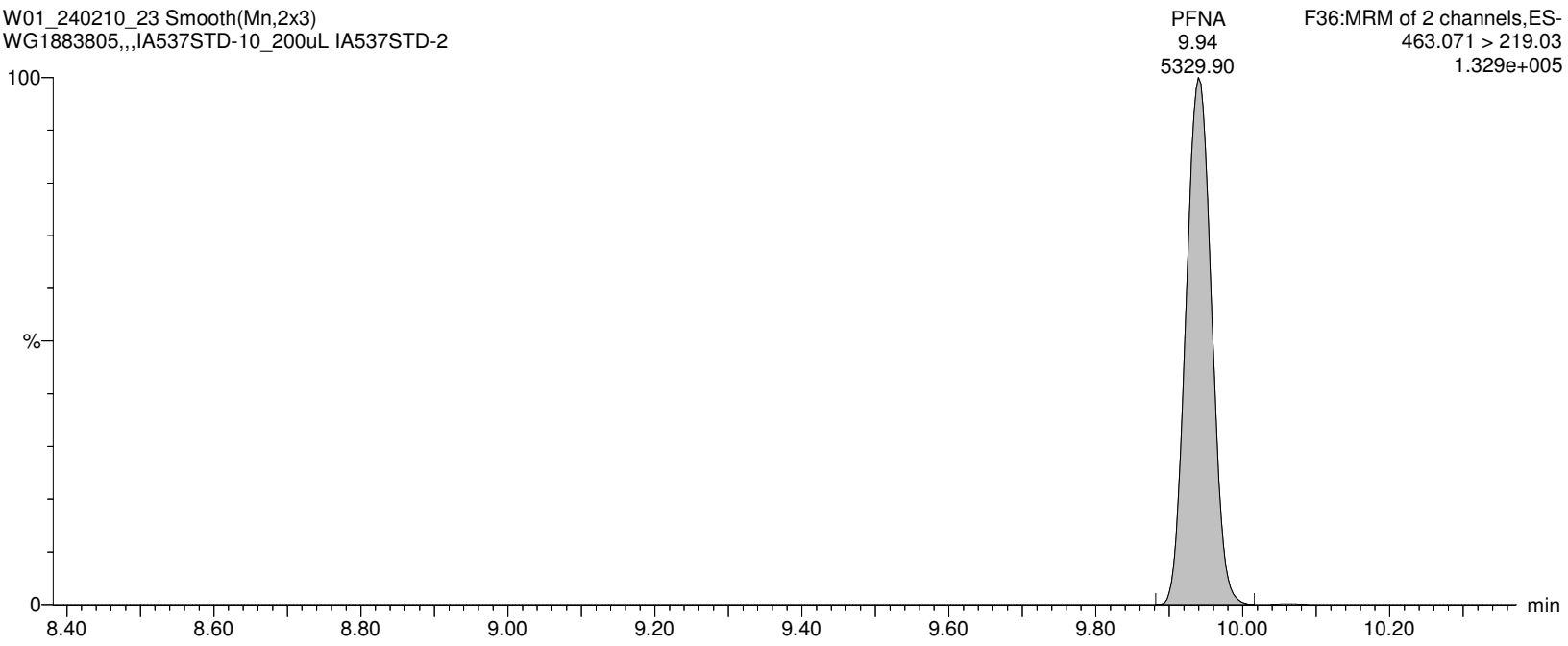

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:12 Eastern Standard Time

Name: W01_240210_23
ID: IA537STD-2
Date: 10-Feb-2024
Time: 16:46:39
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User: LCMS01:SG
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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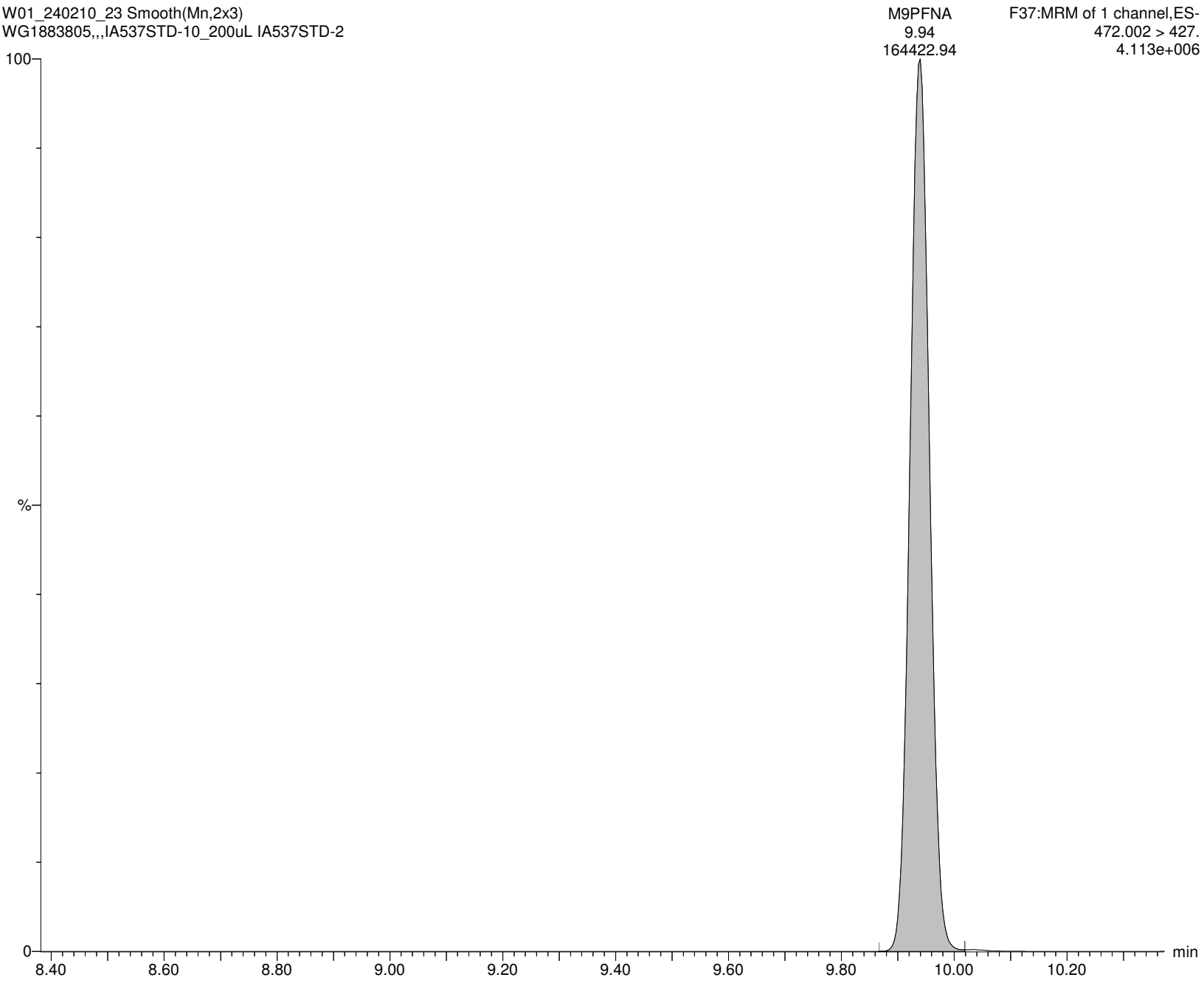

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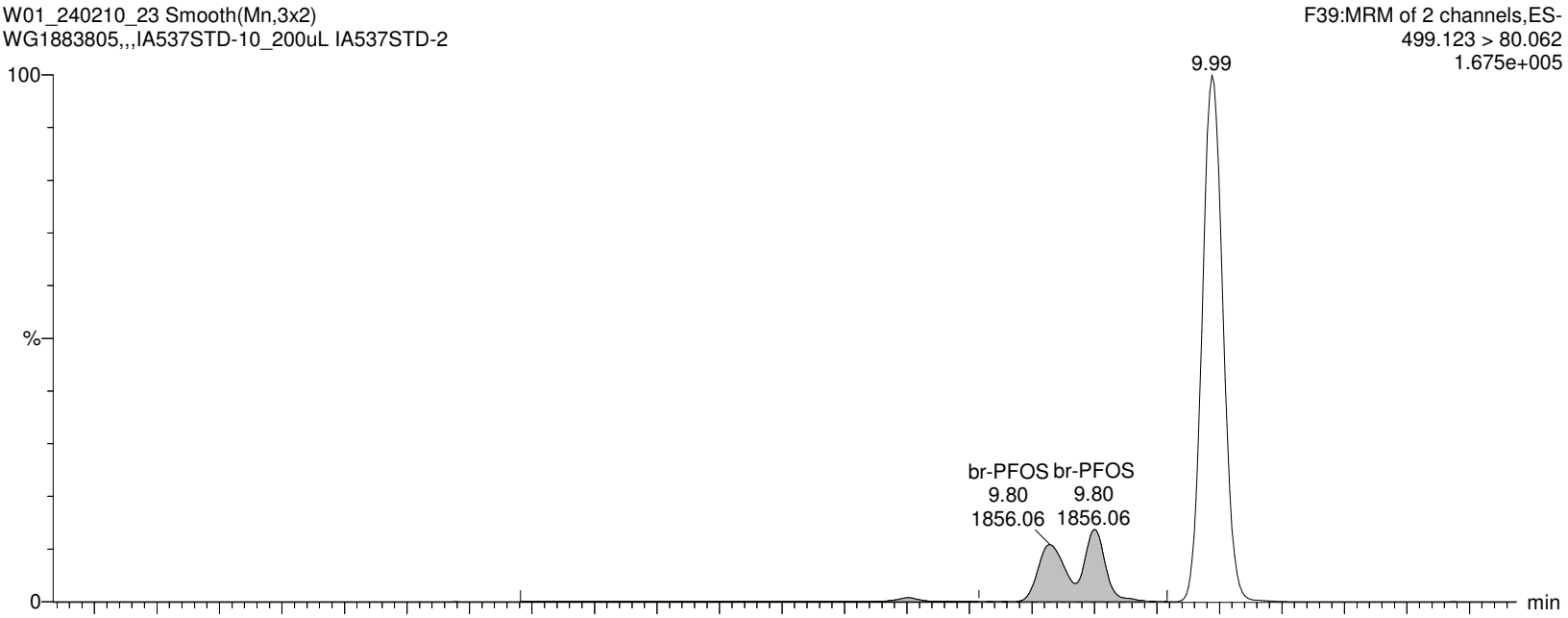

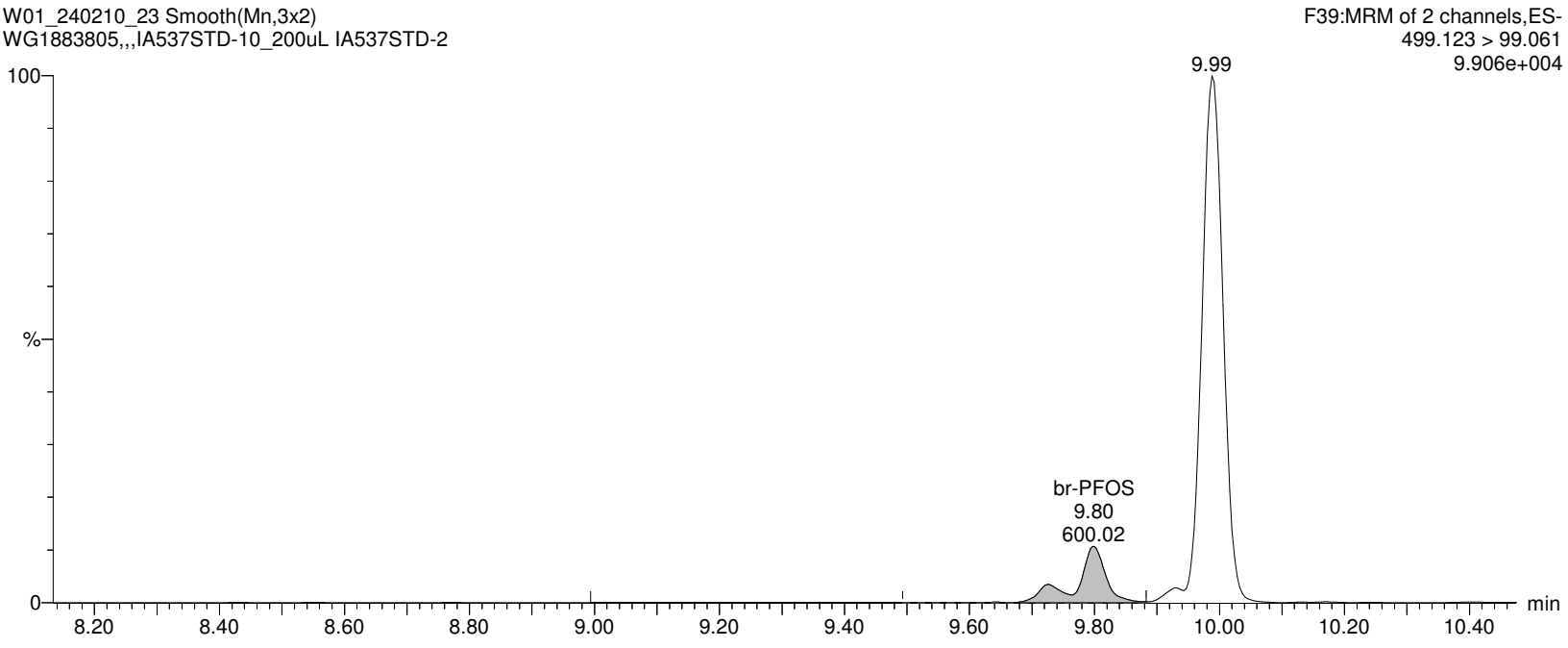

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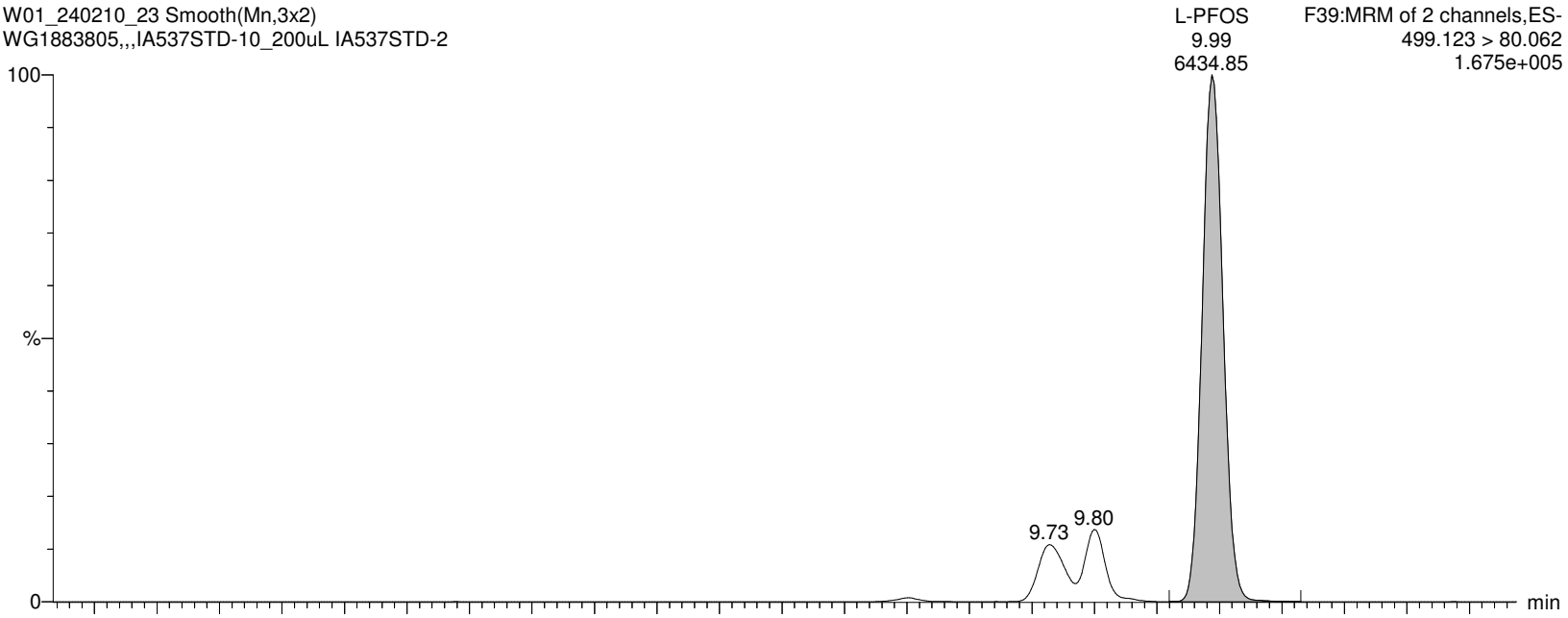

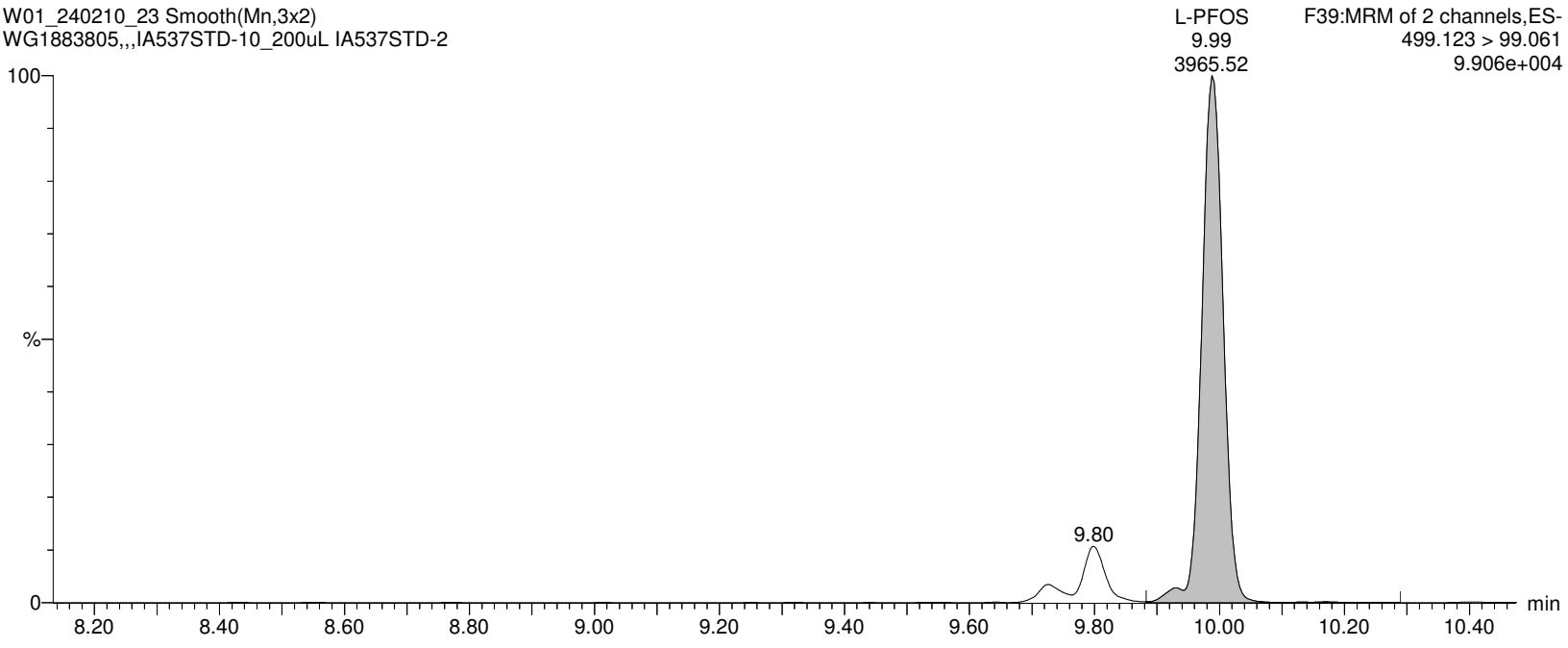

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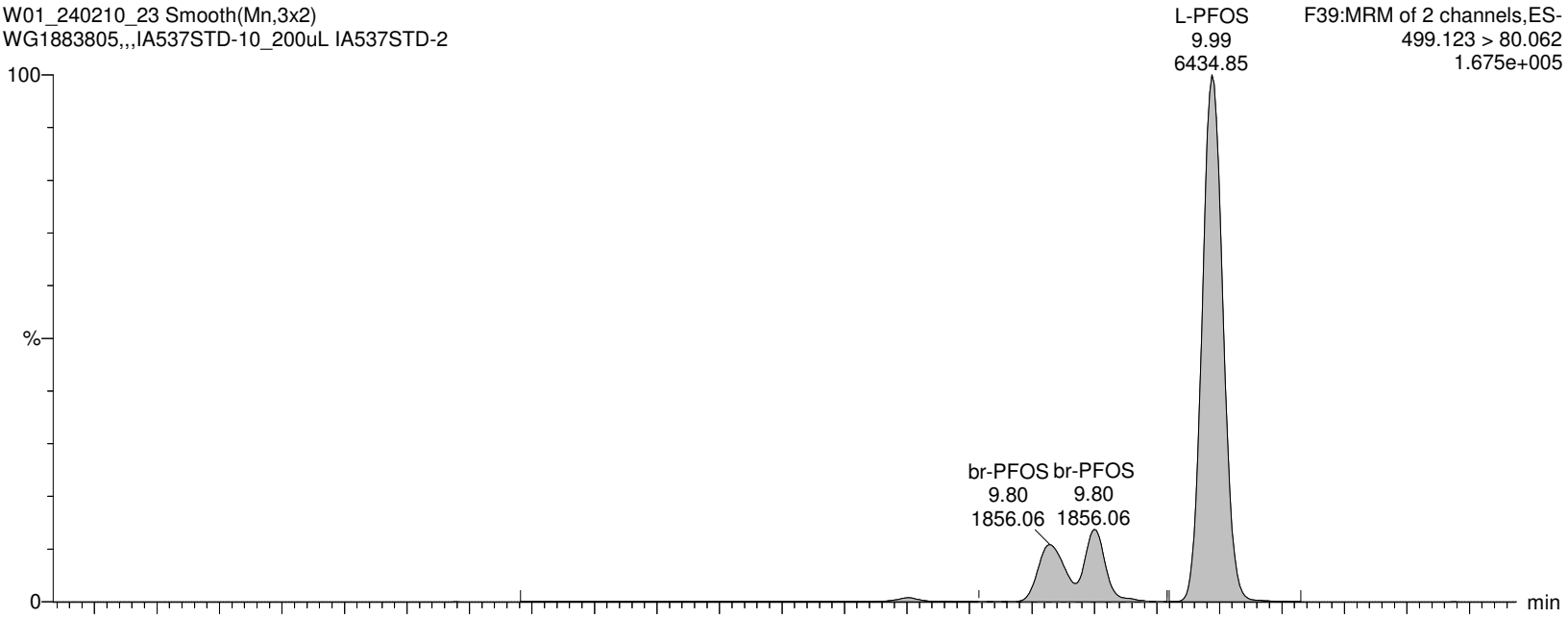

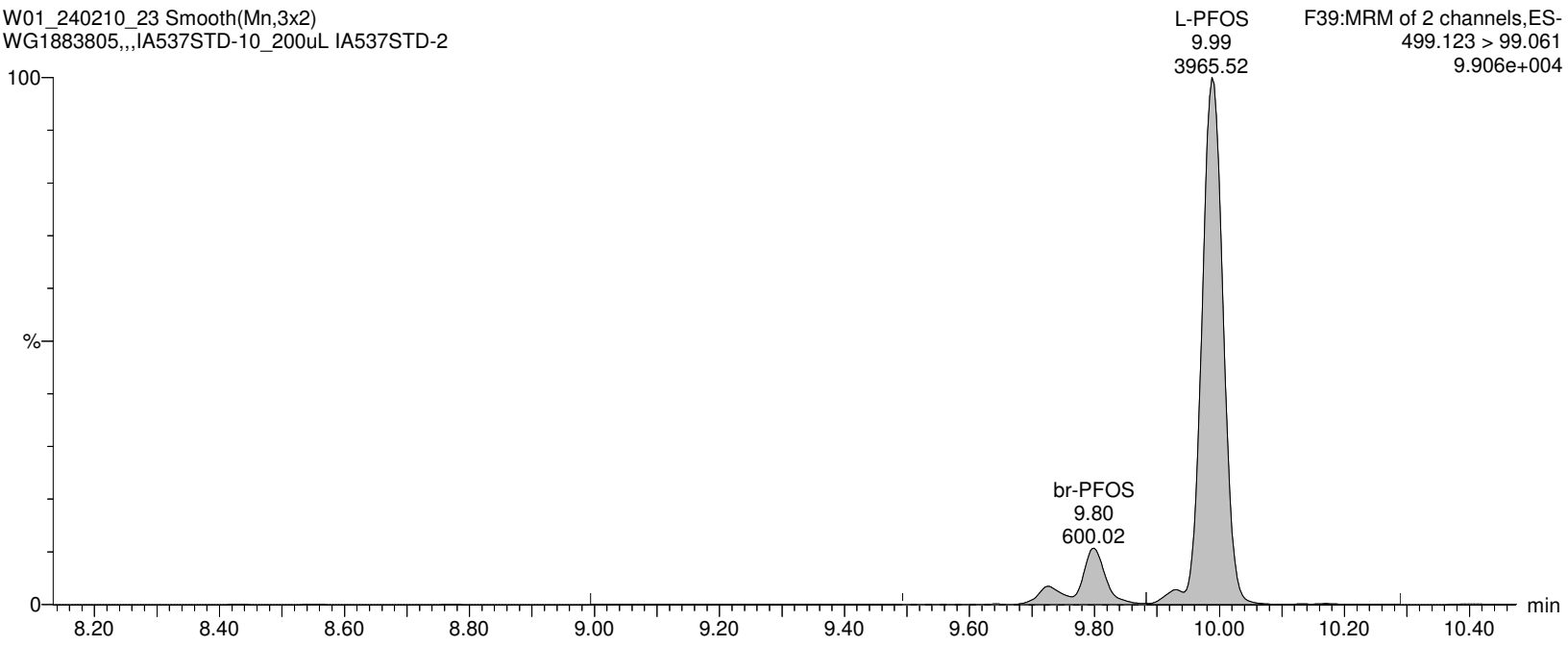

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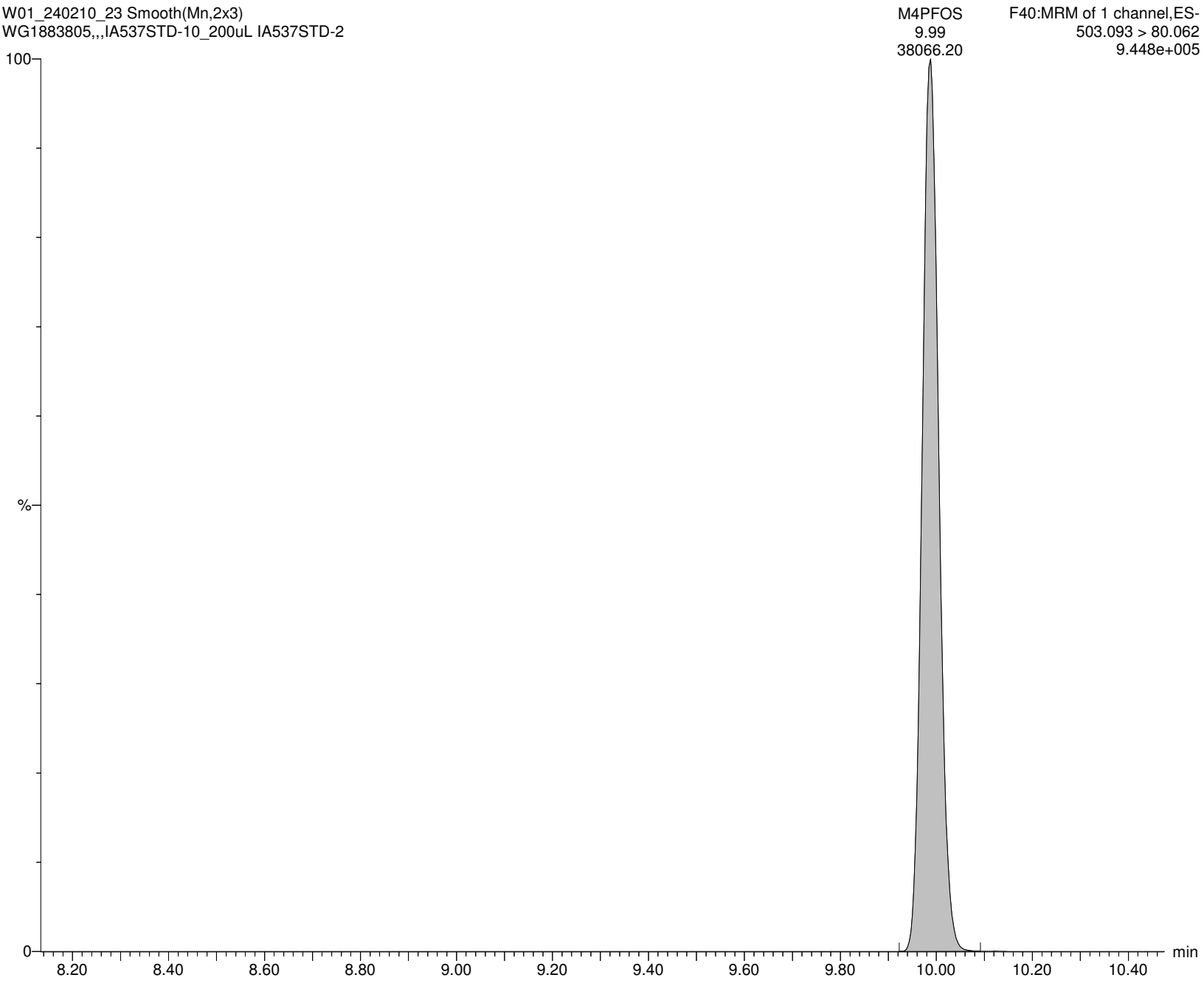

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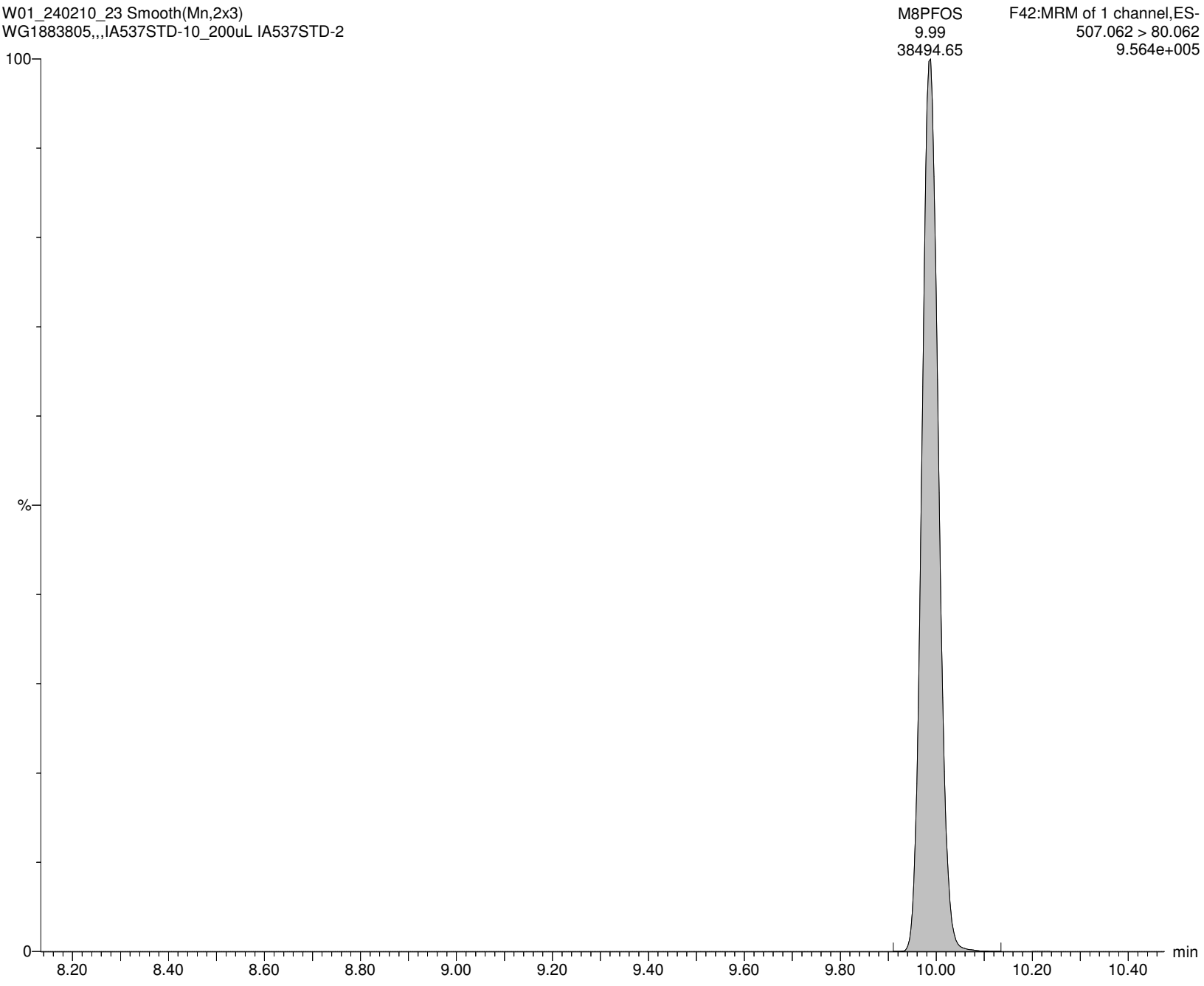

all concentration units in (ng/mL)

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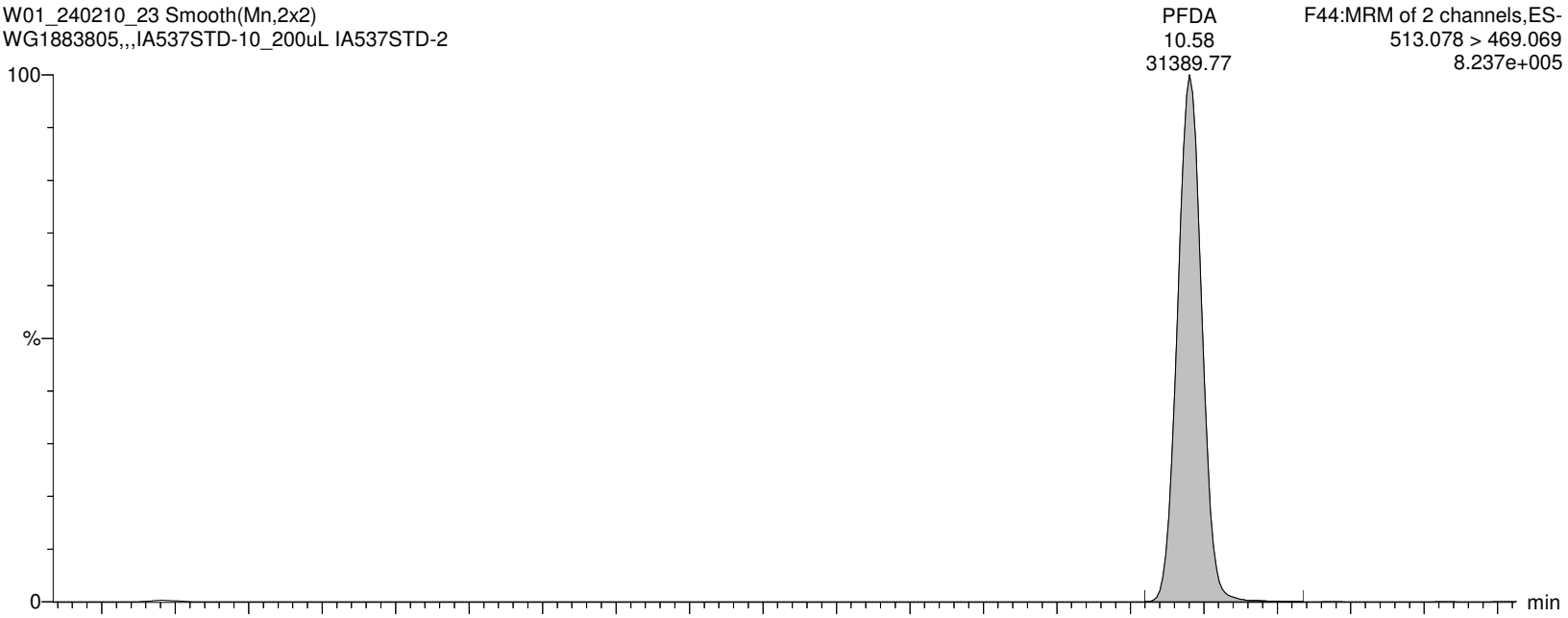

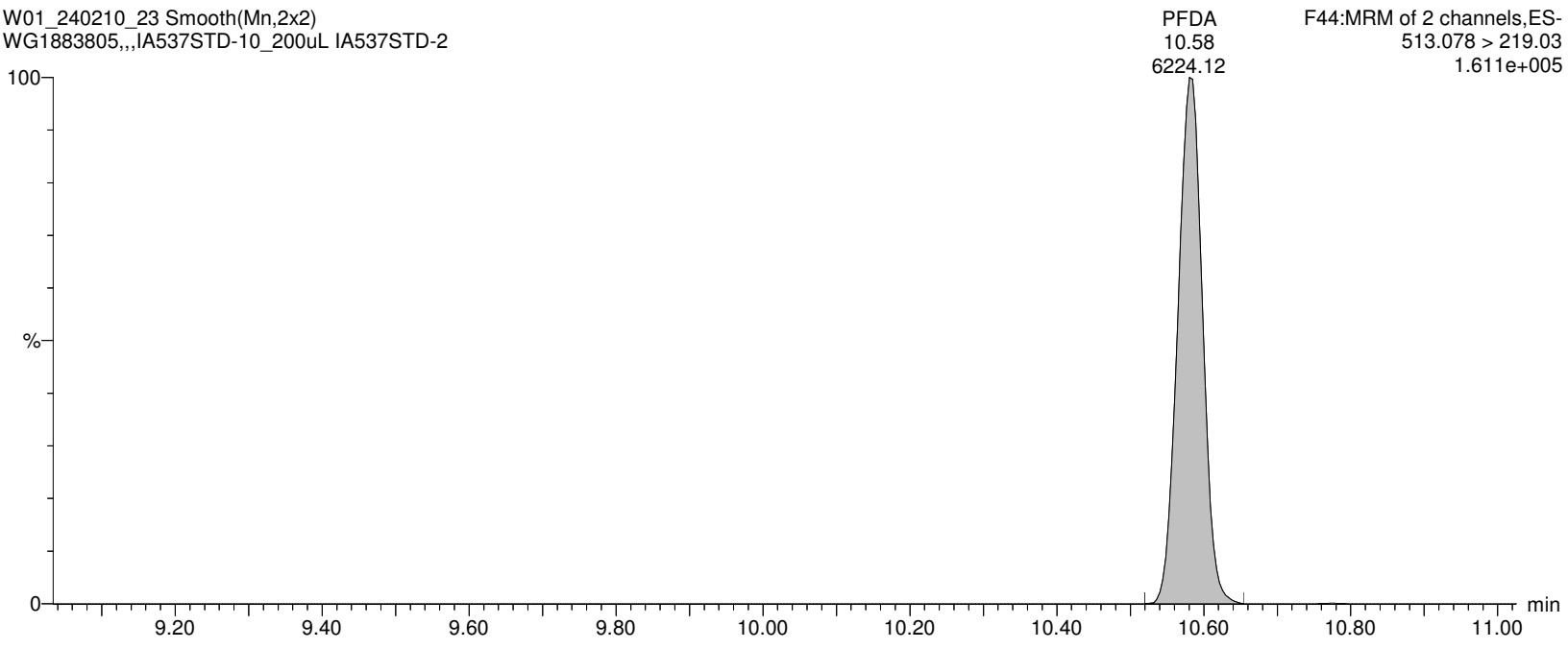

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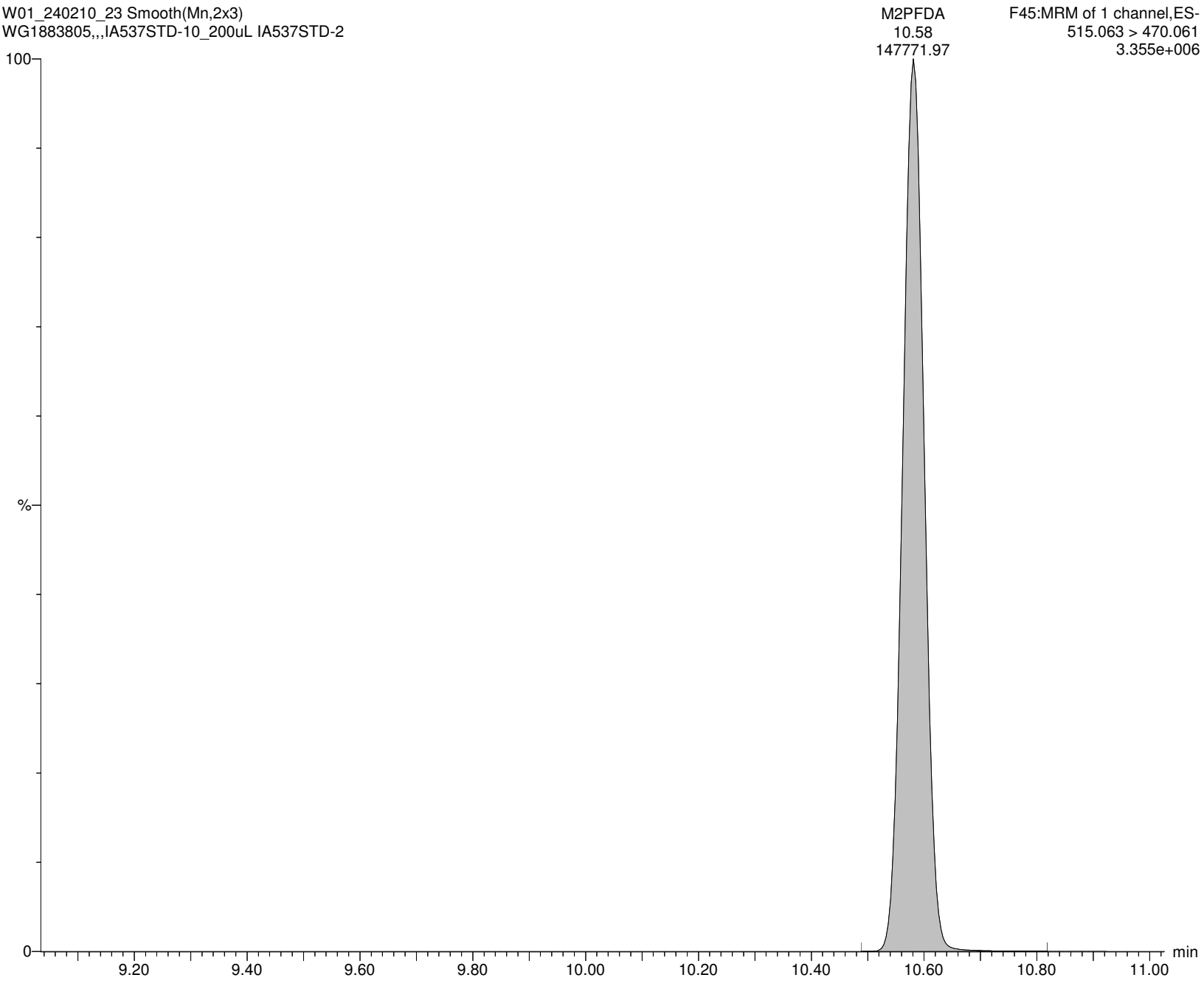

all concentration units in (ng/mL)

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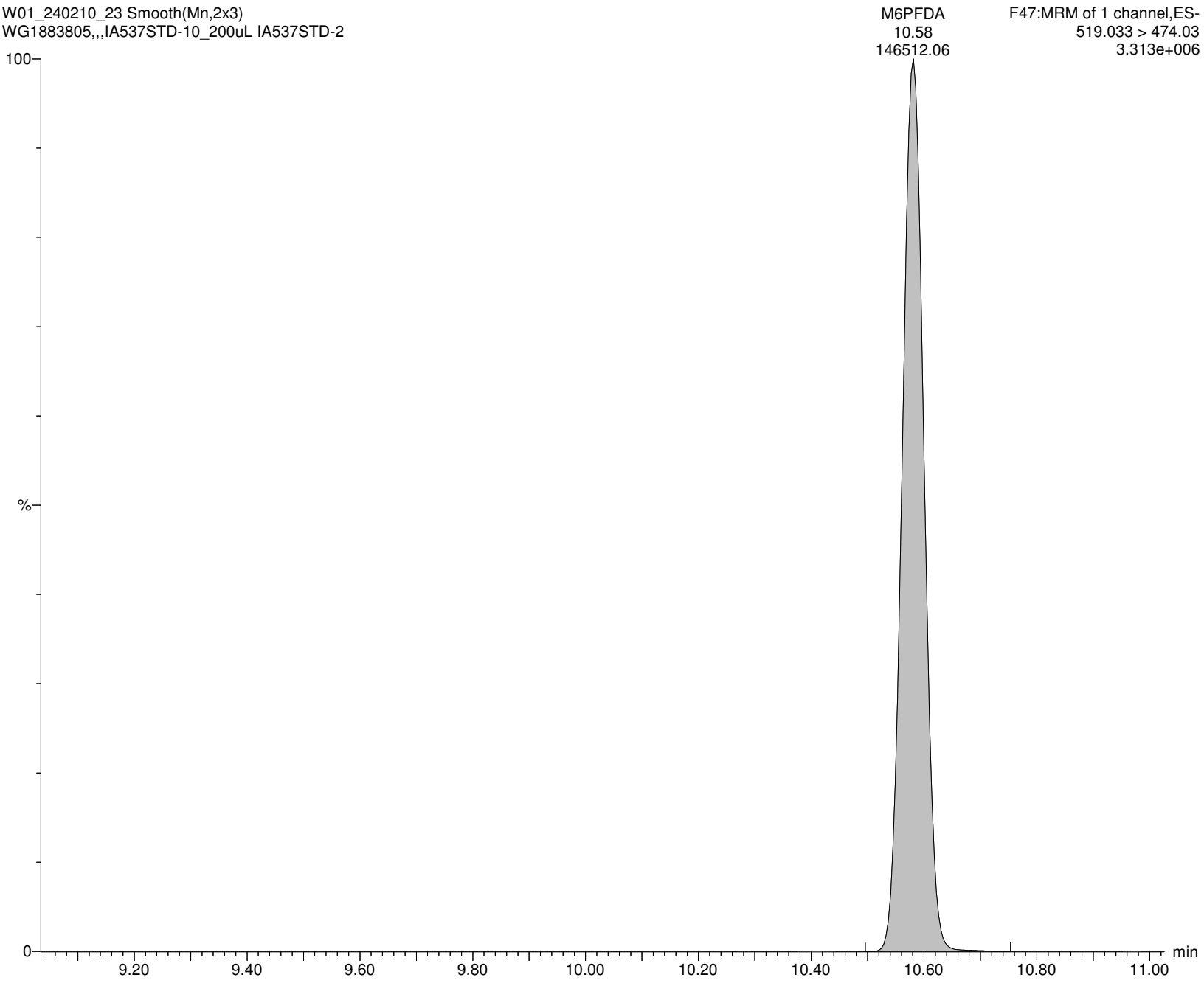

all concentration units in (ng/mL)

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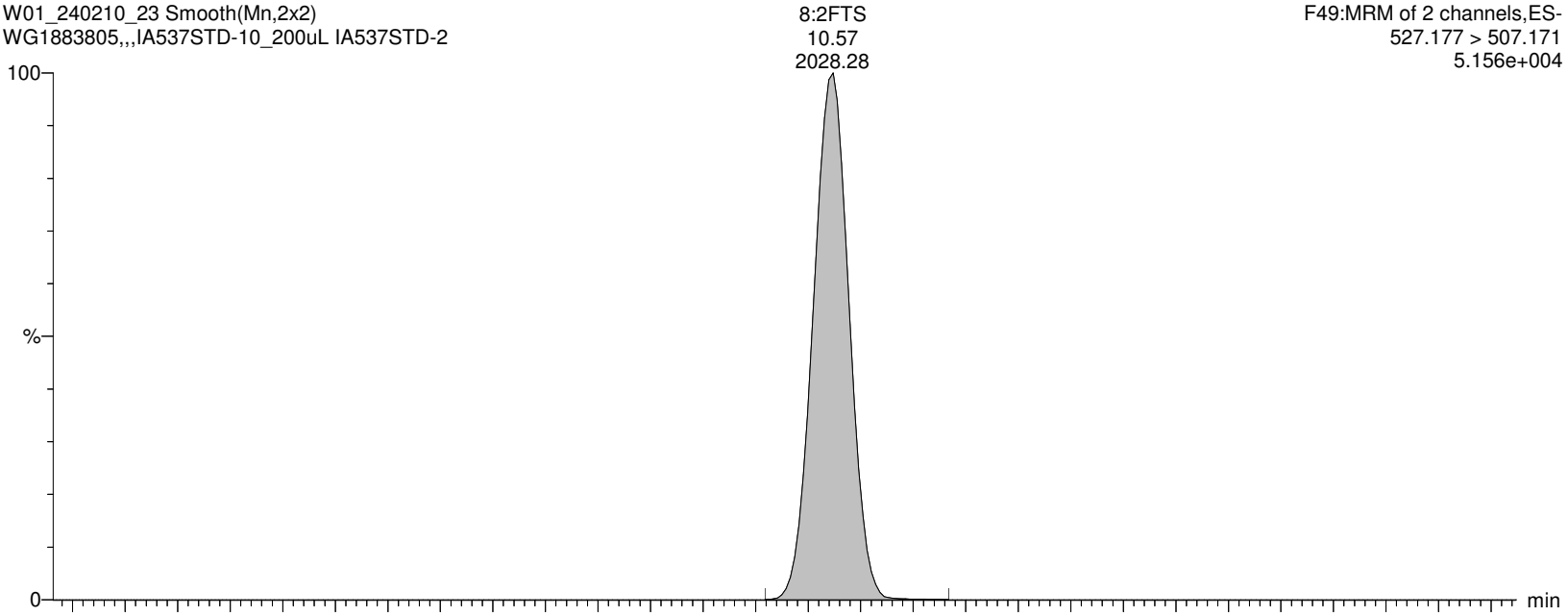
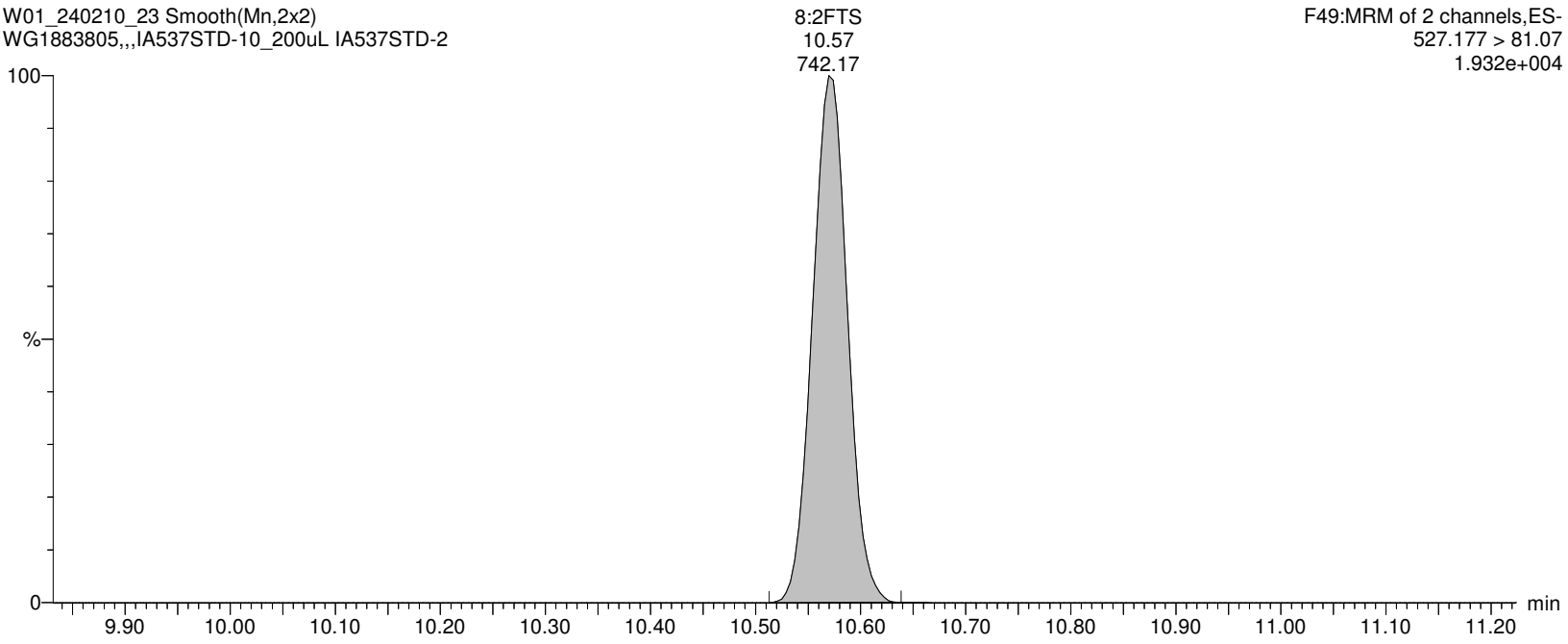
8:2FTS





all concentration units in (ng/mL)

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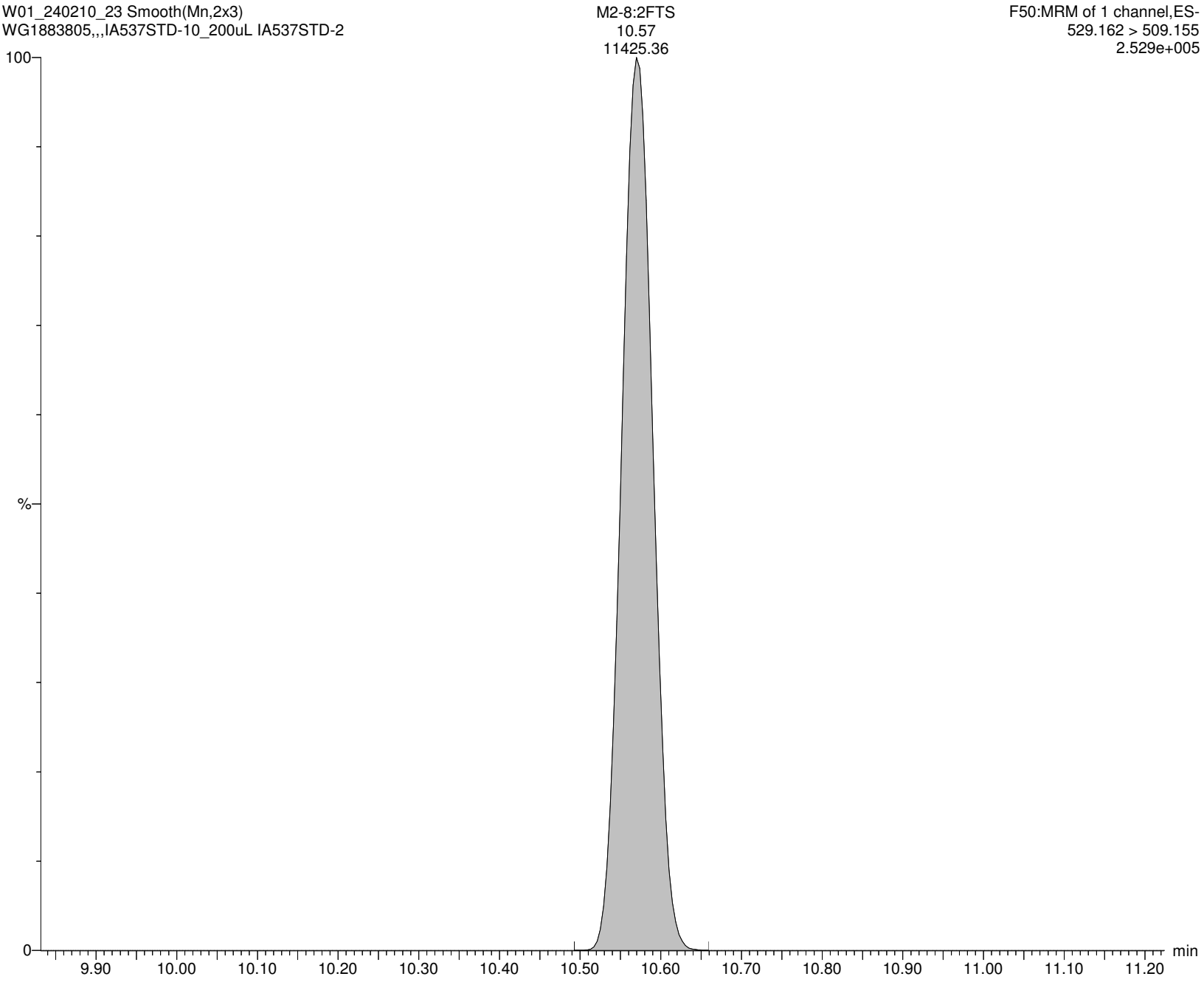

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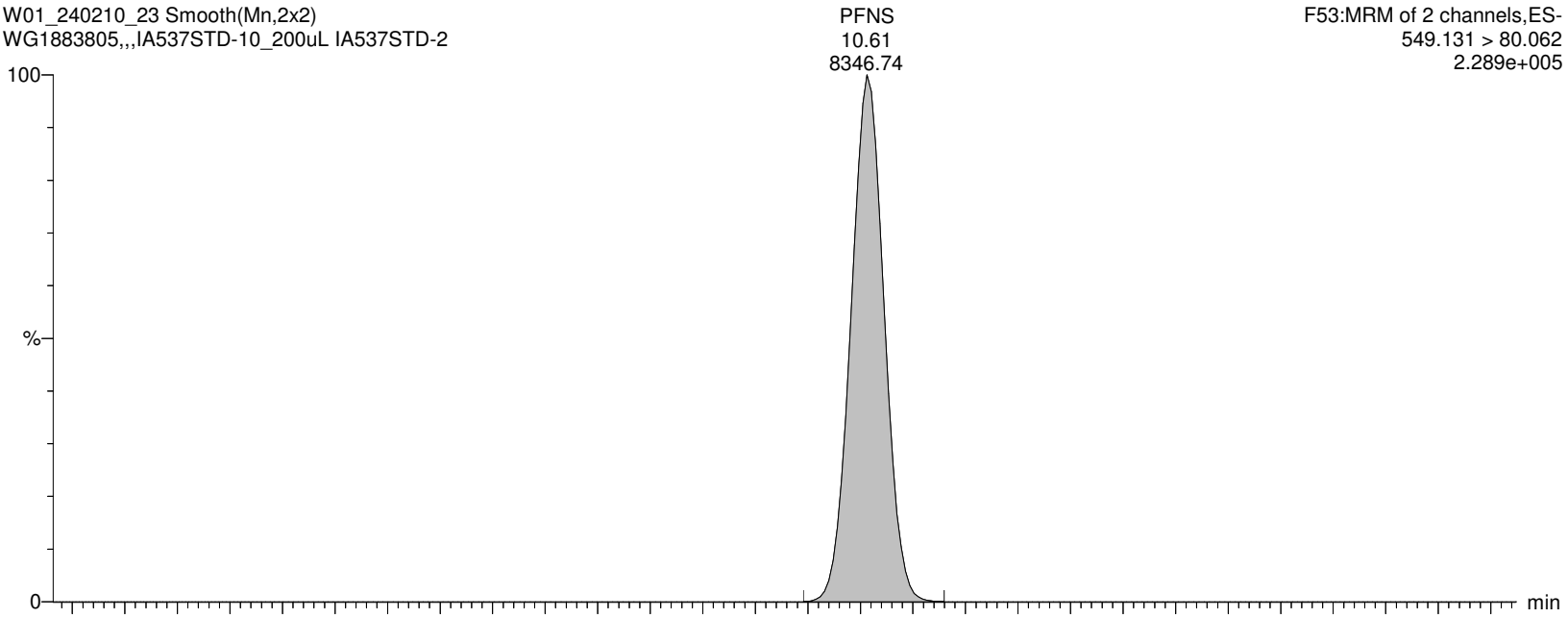

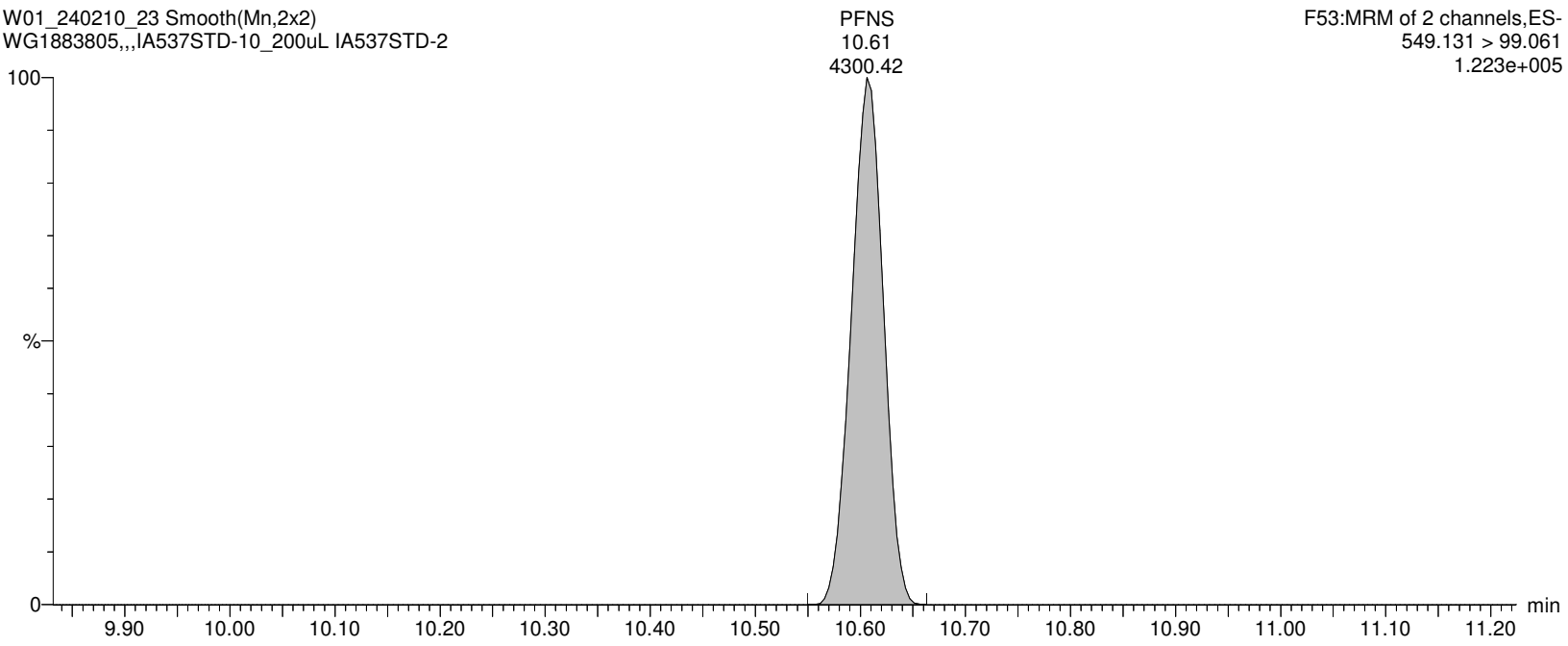

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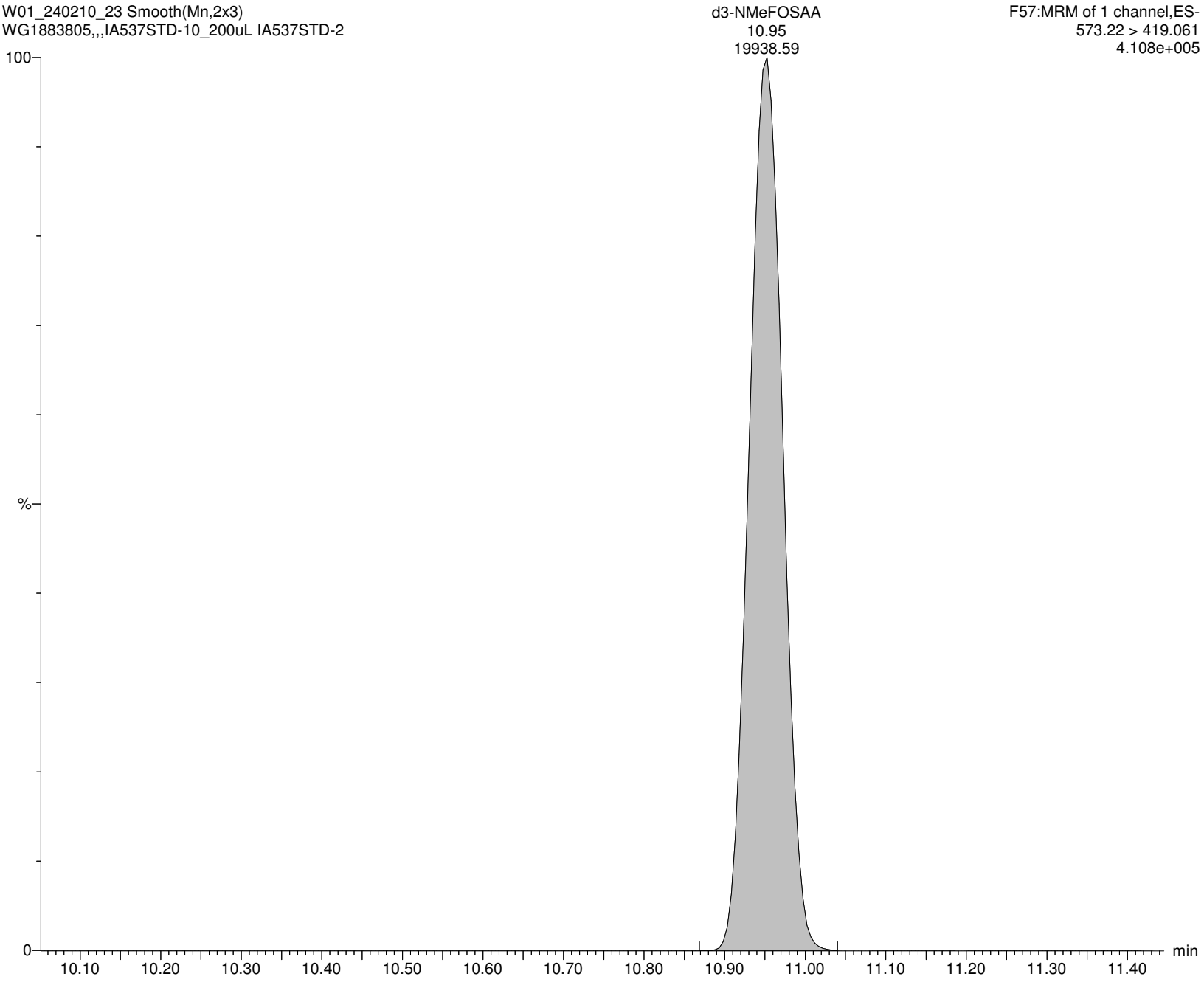

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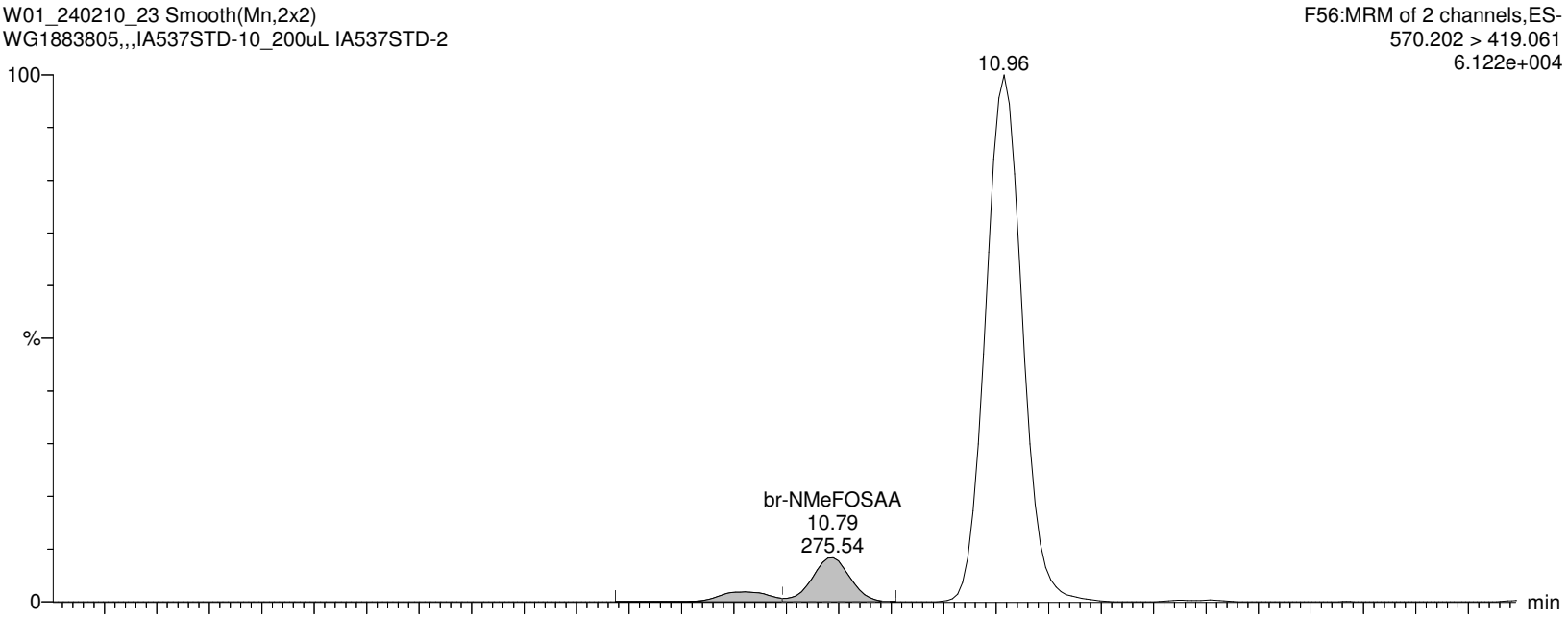

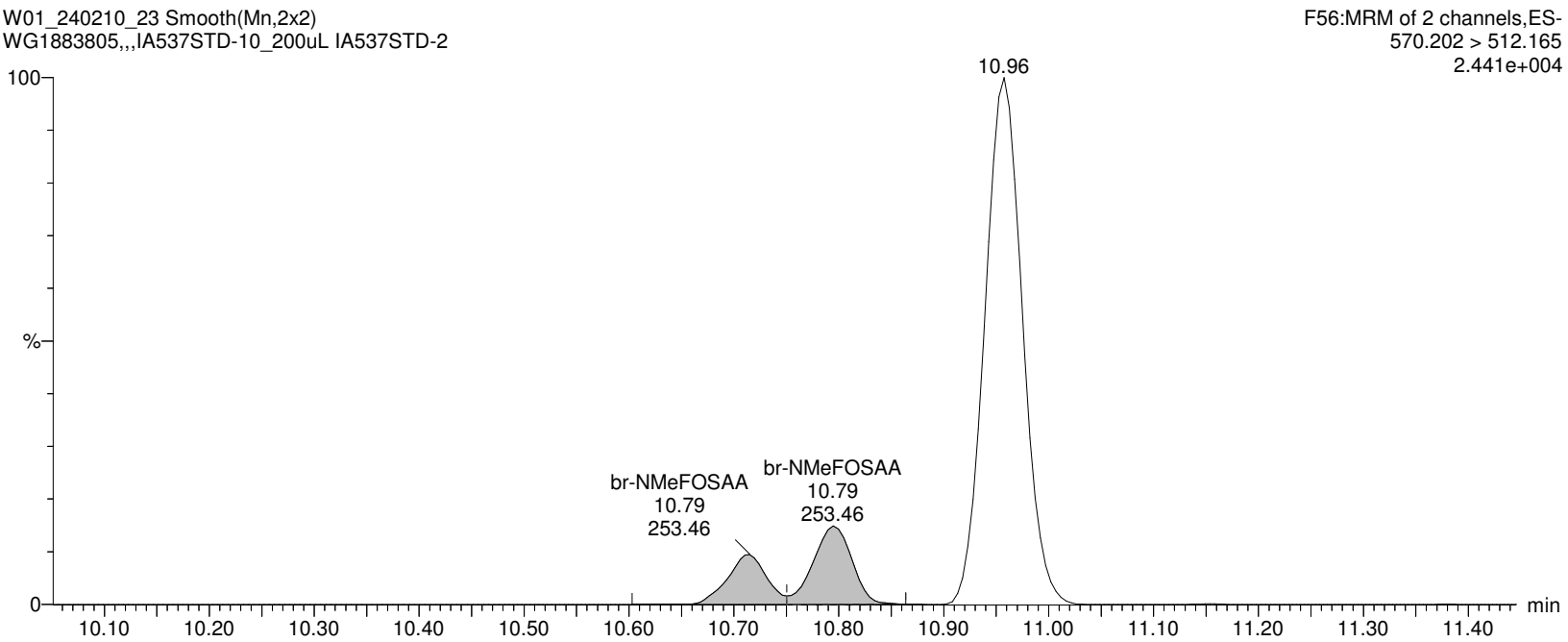

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Vial: 1:B,3
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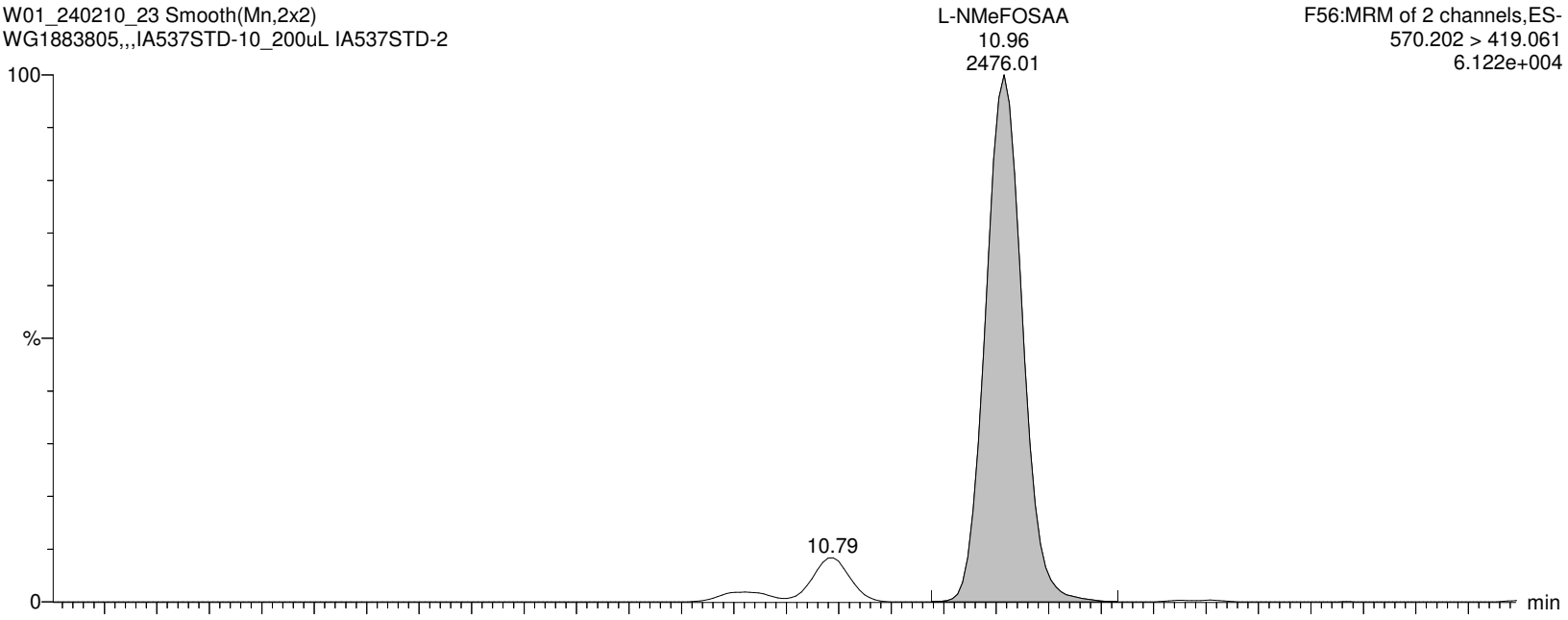

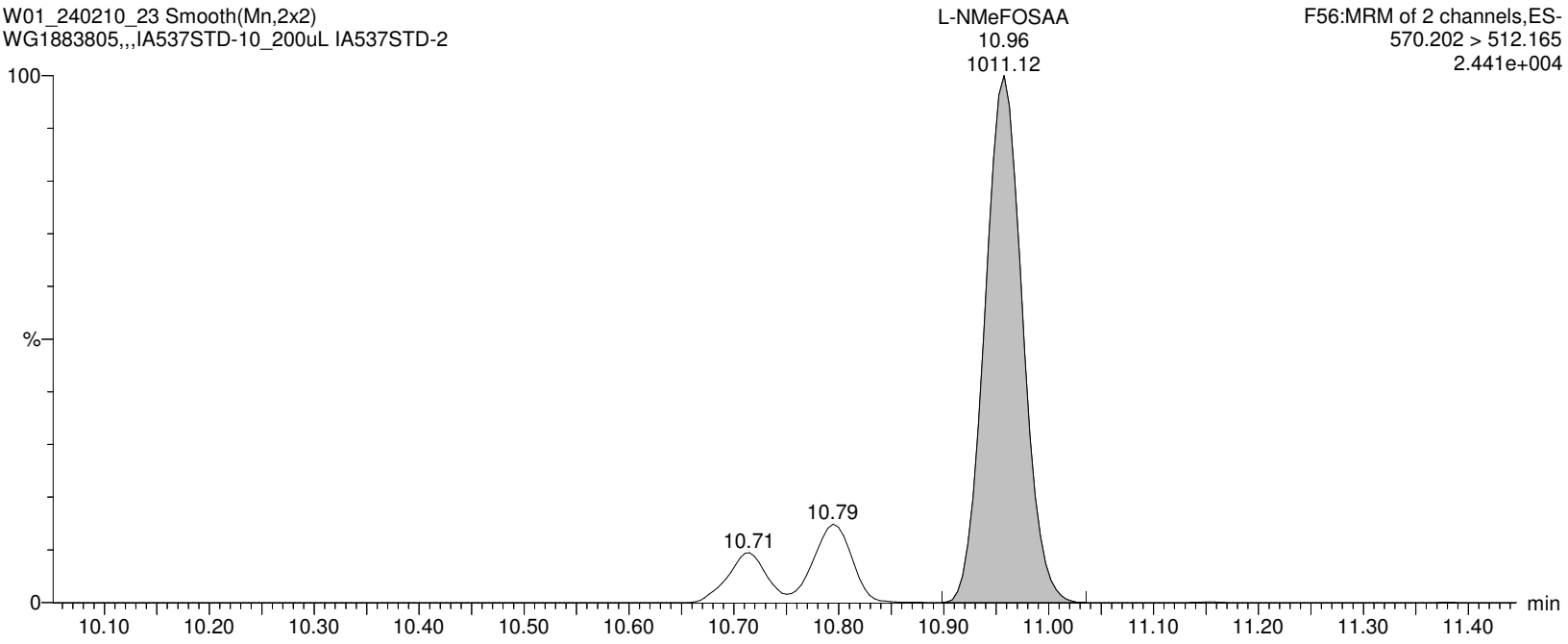

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:12 Eastern Standard Time

Name: W01_240210_23
ID: IA537STD-2
Date: 10-Feb-2024
Time: 16:46:39
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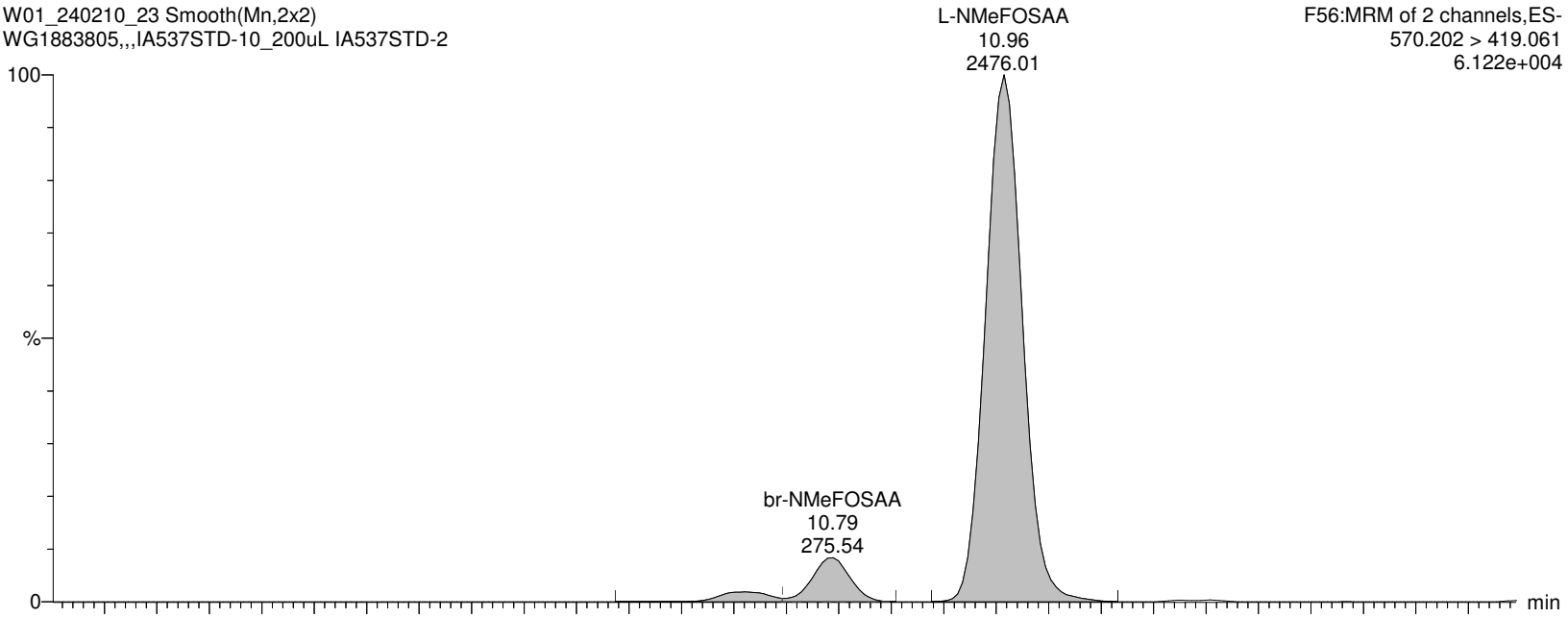

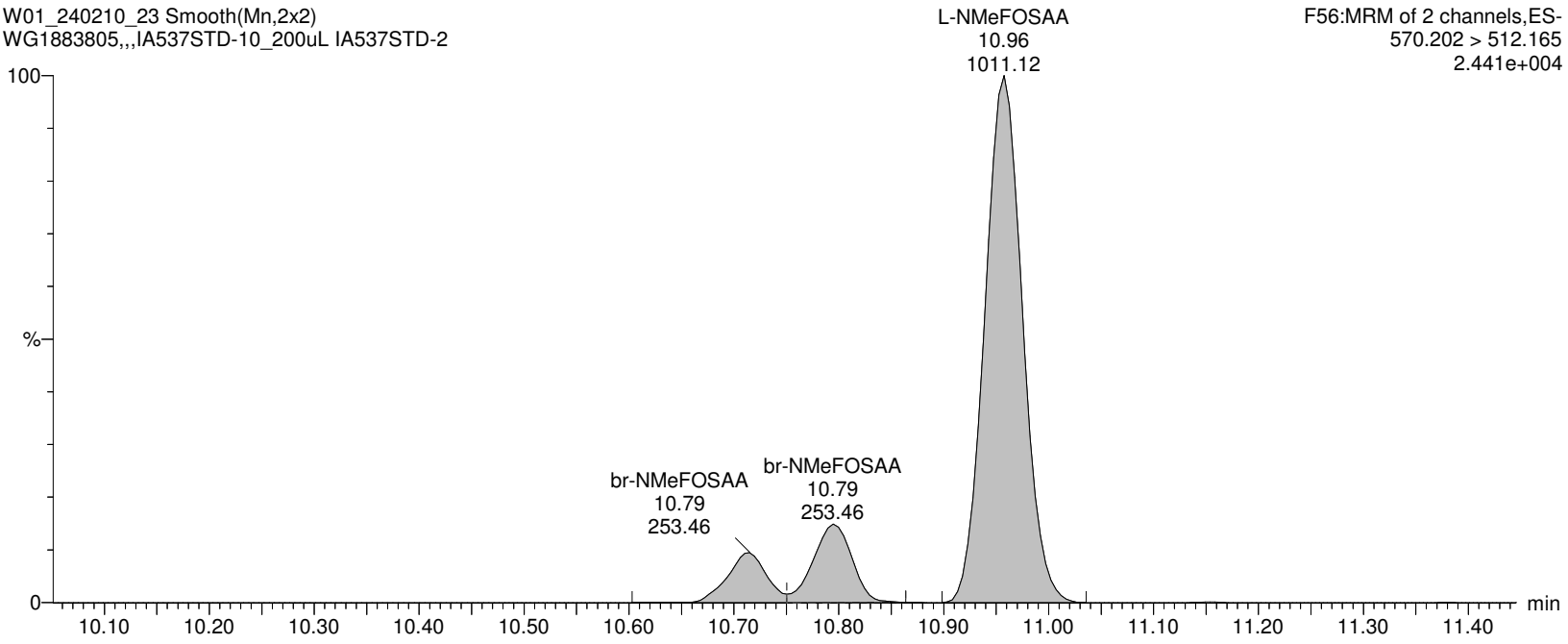

all concentration units in (ng/mL)

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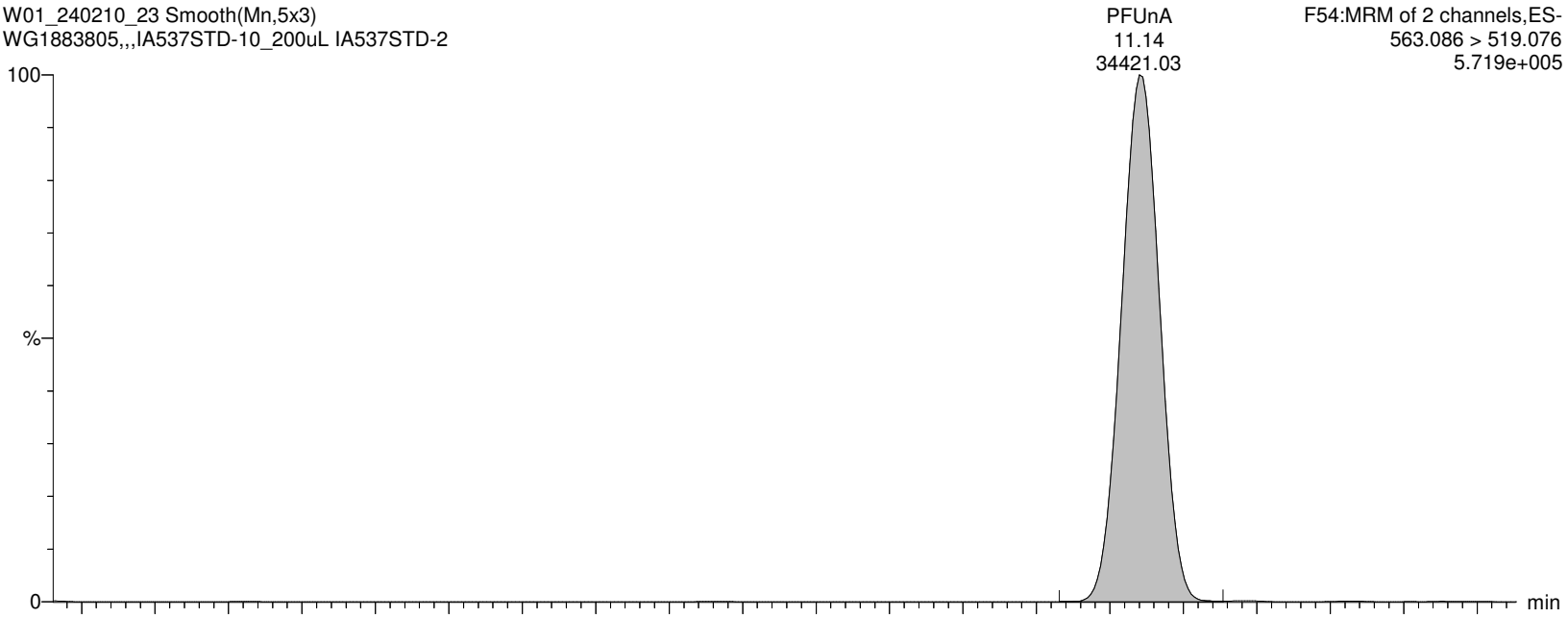

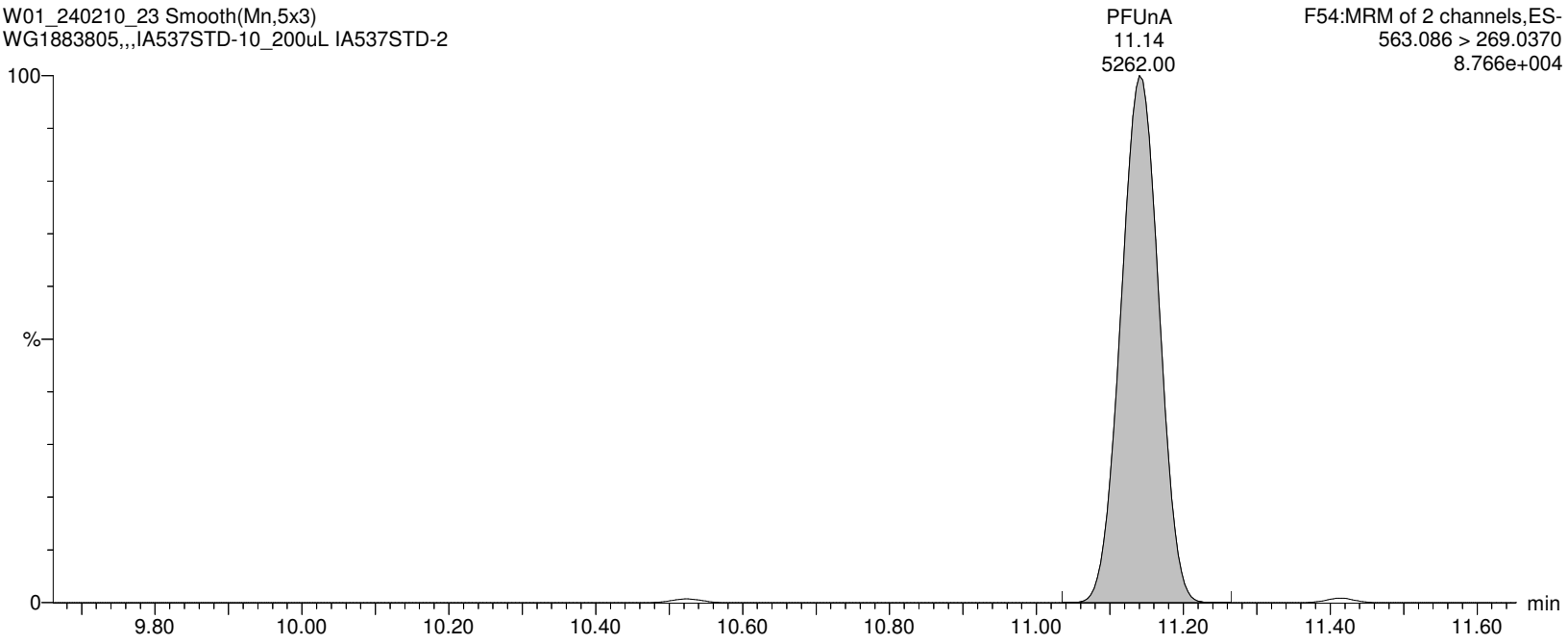

all concentration units in (ng/mL)

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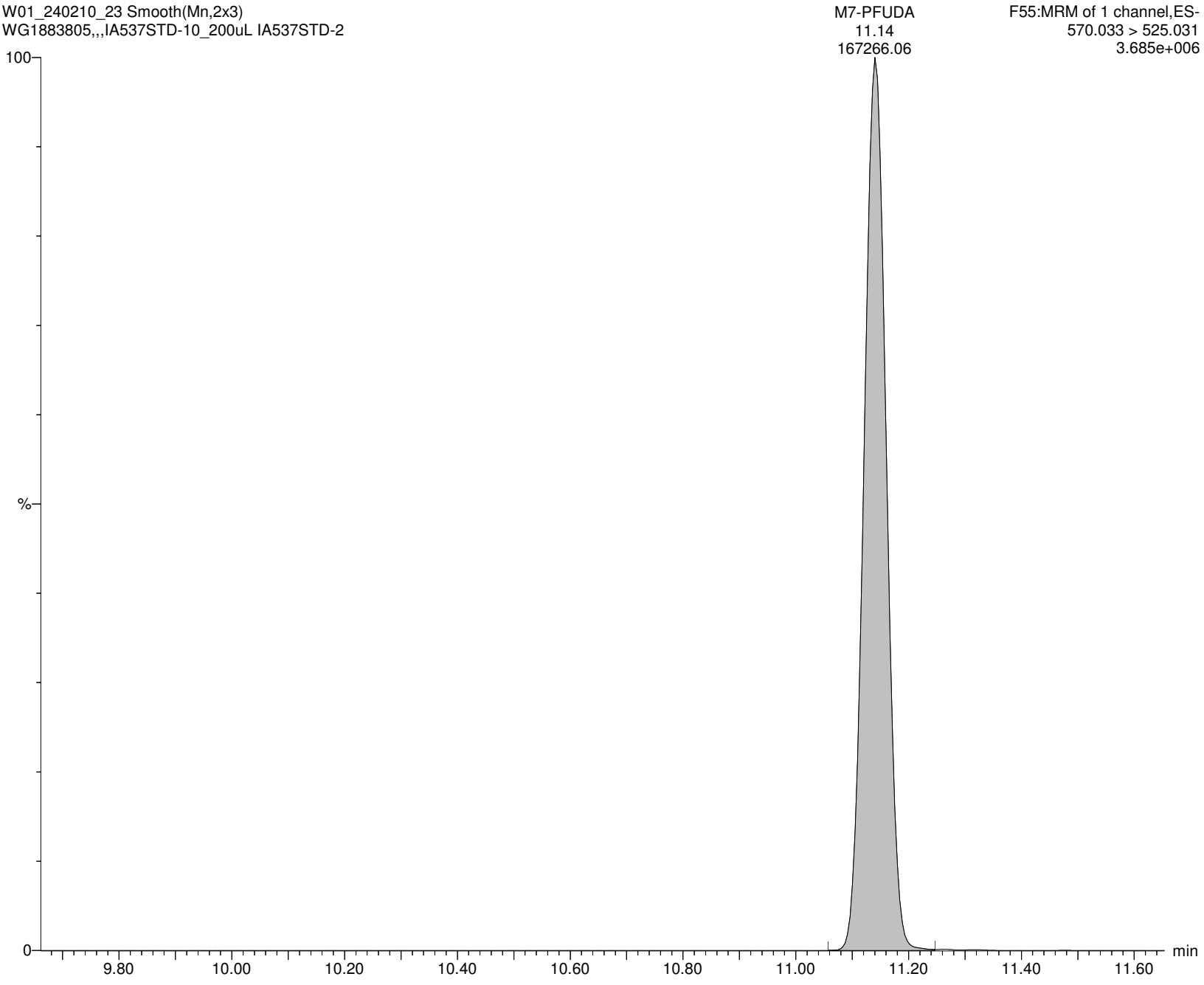

all concentration units in (ng/mL)

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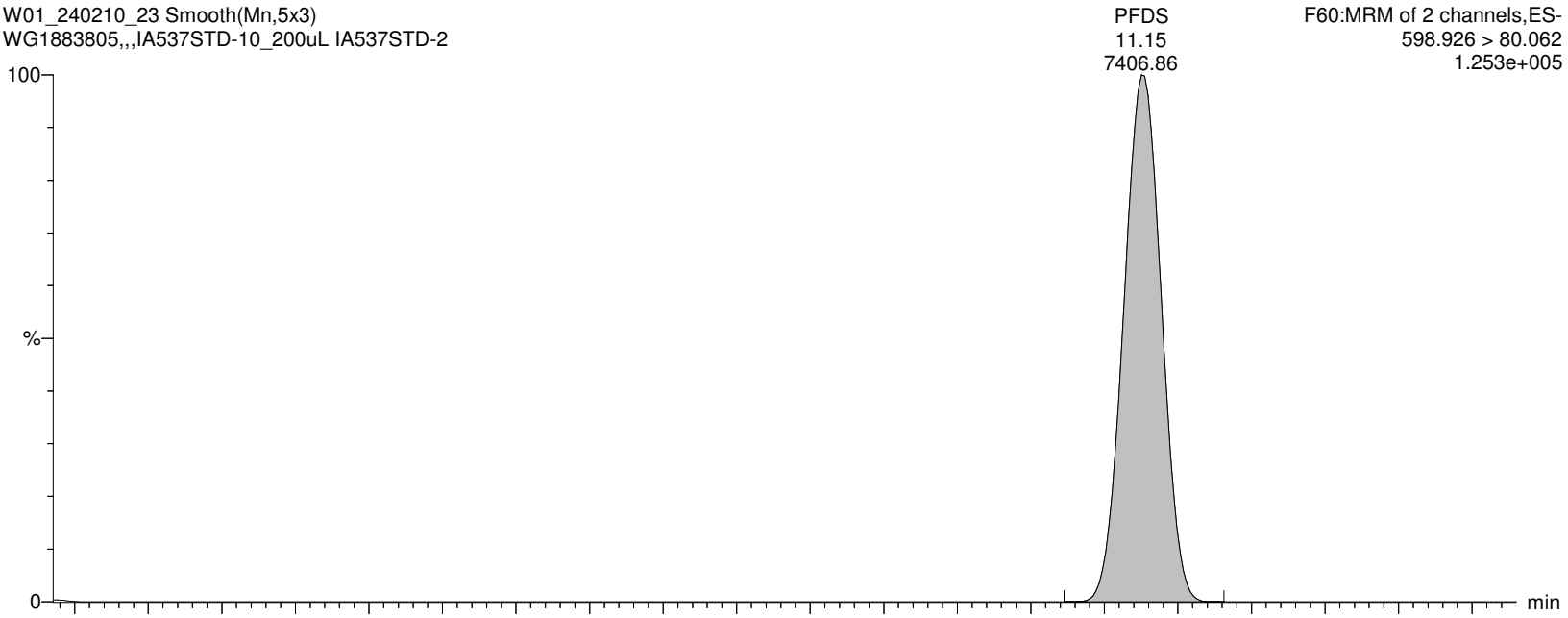

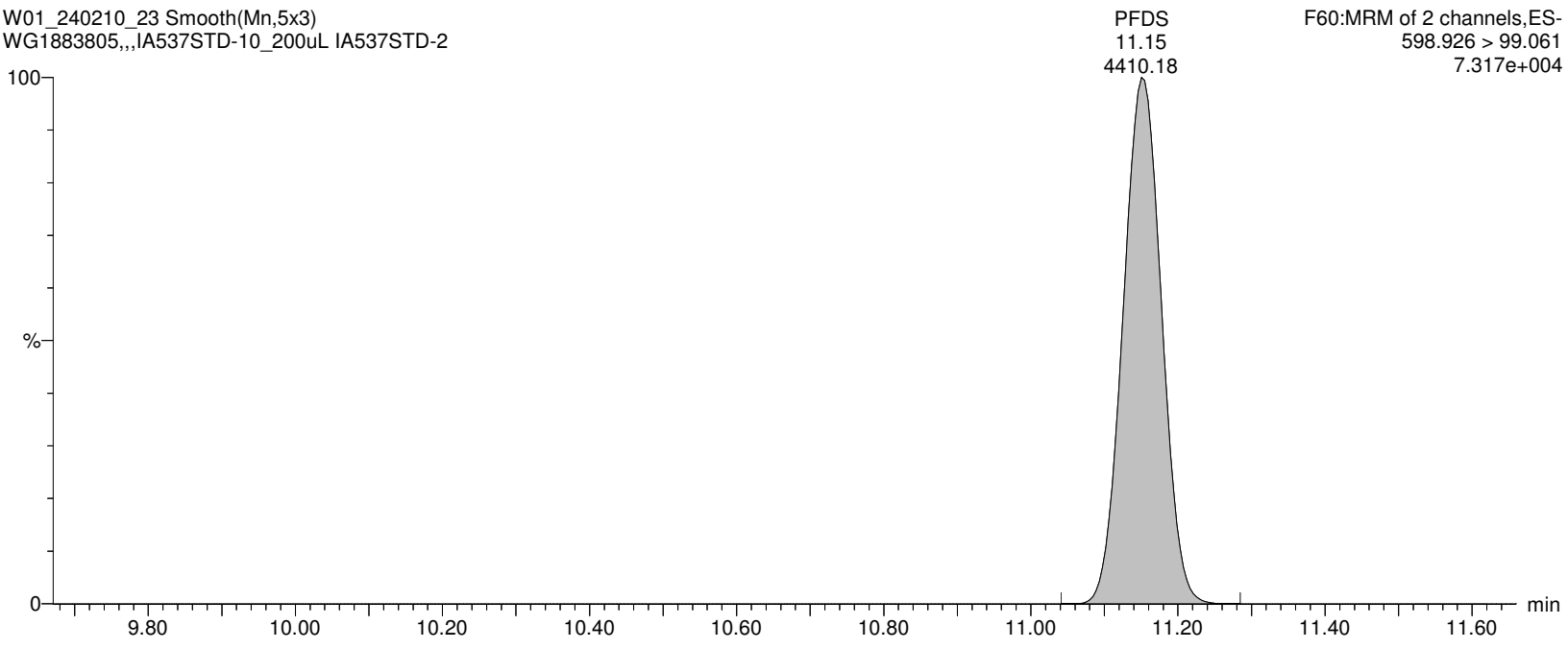

all concentration units in (ng/mL)

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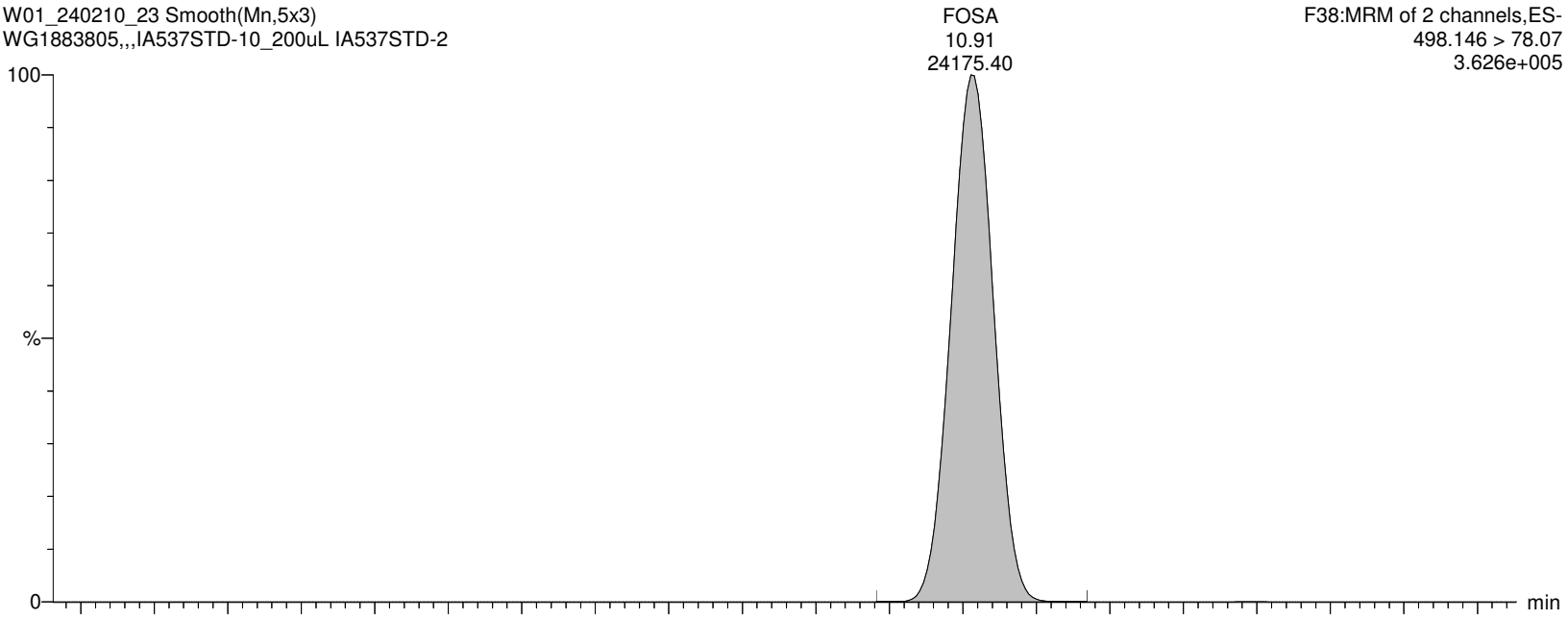

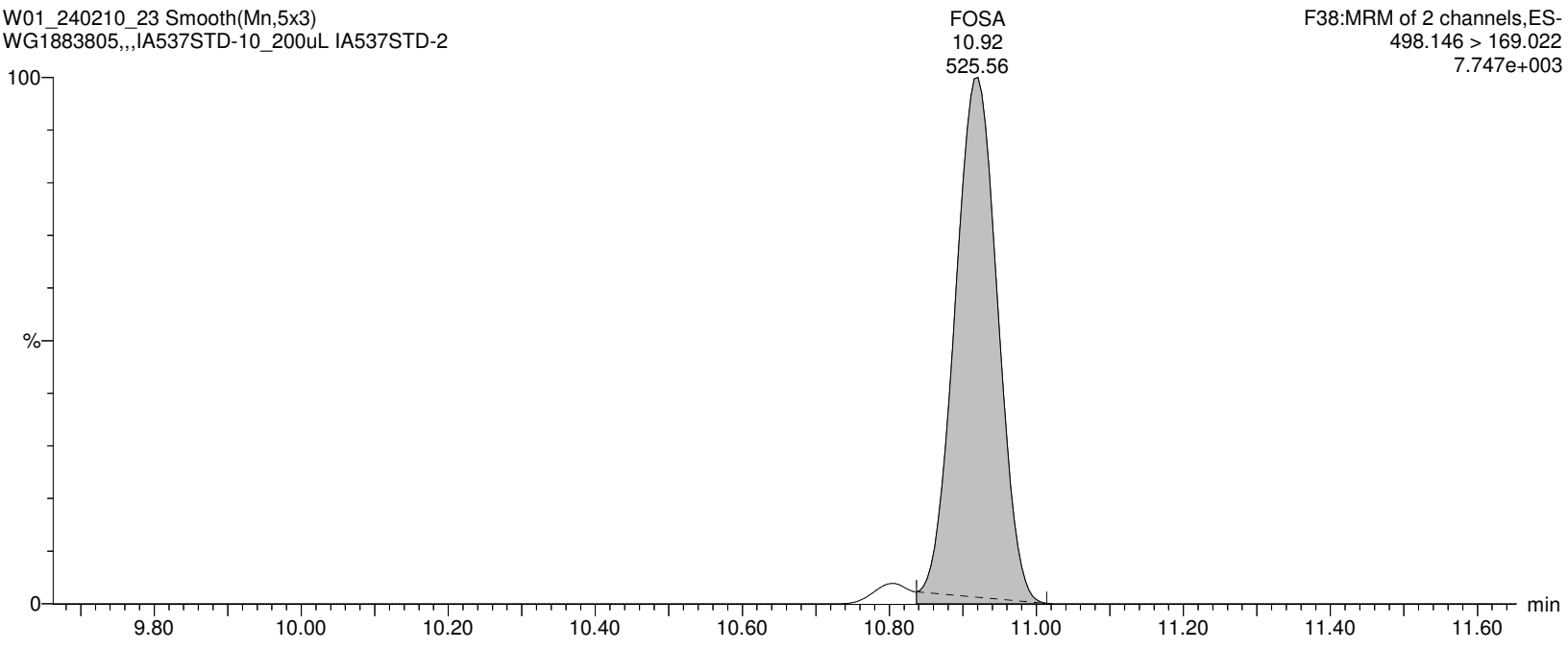

all concentration units in (ng/mL)

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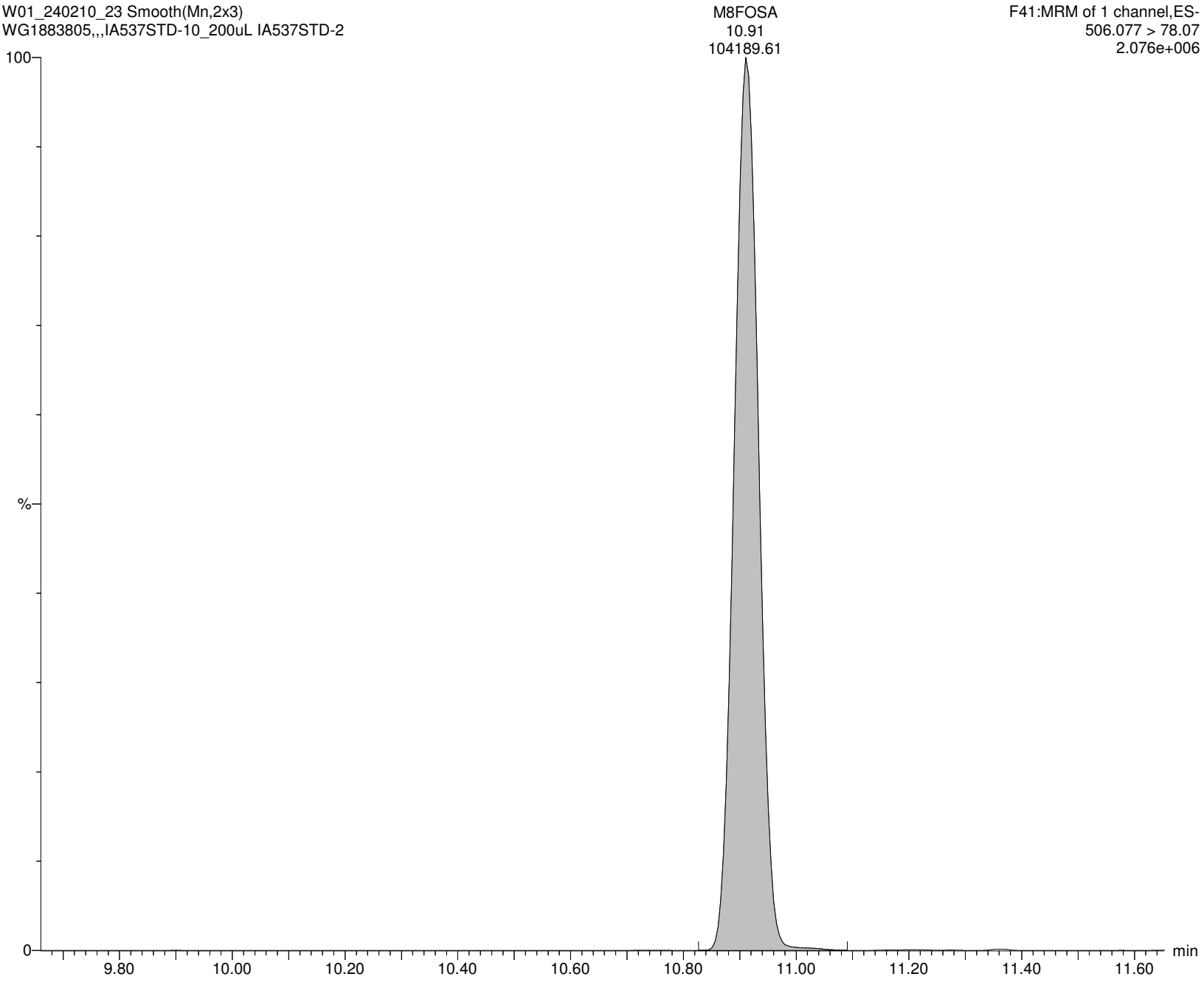

all concentration units in (ng/mL)

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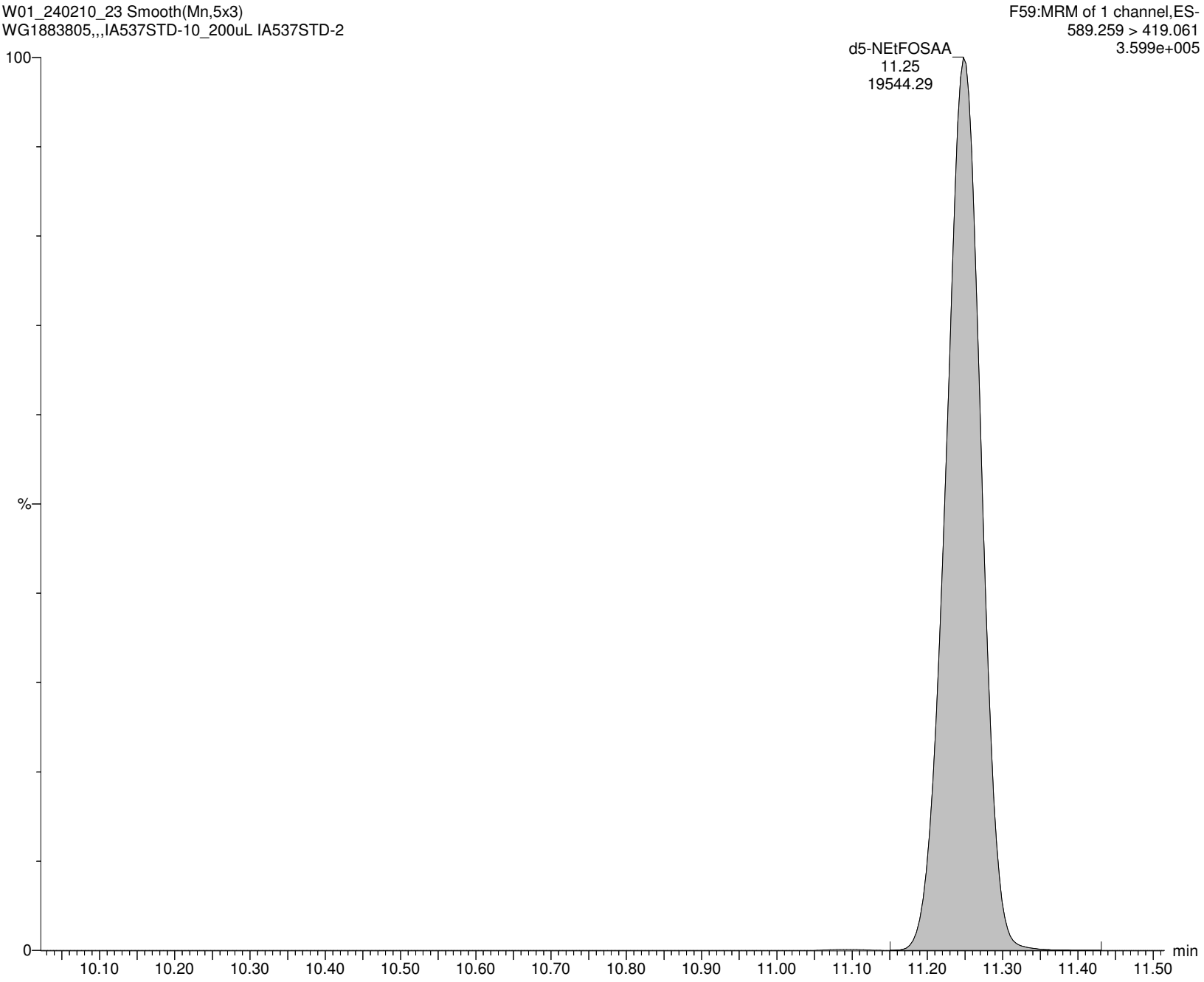

all concentration units in (ng/mL)

Alpha Analytical Inc.
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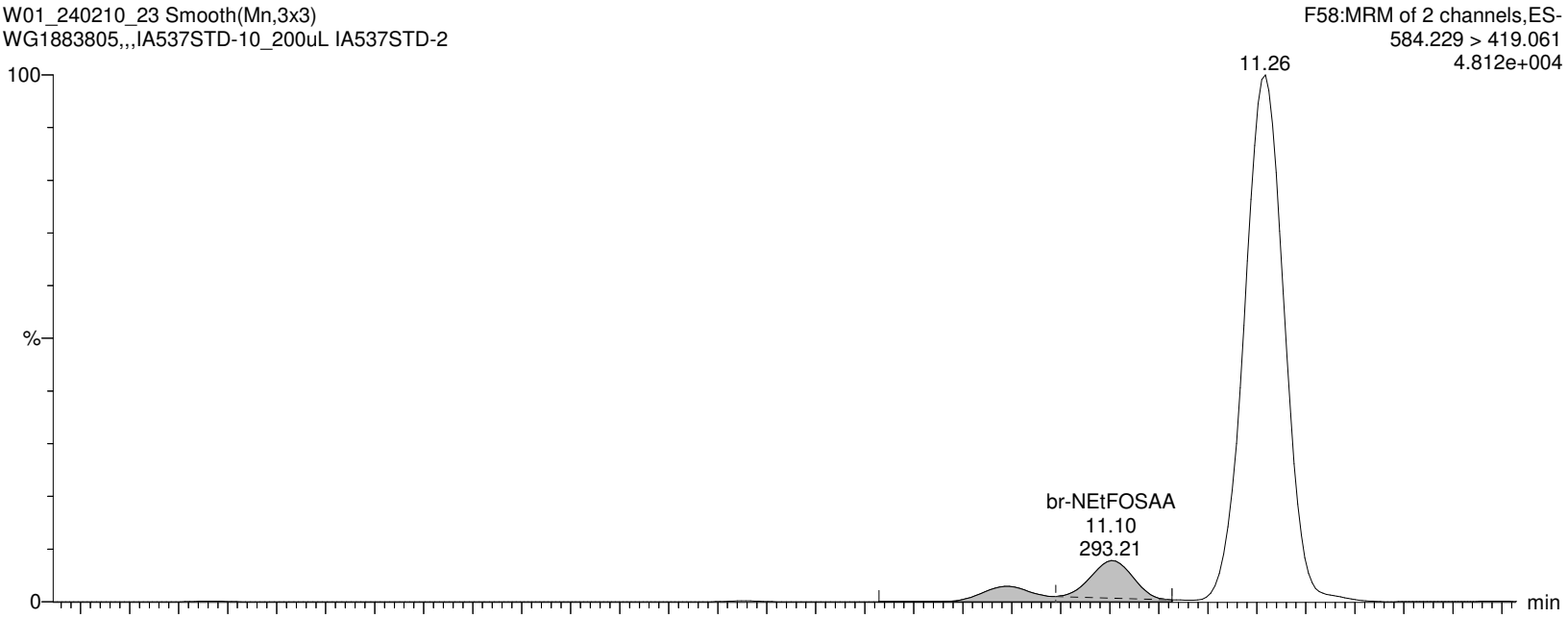

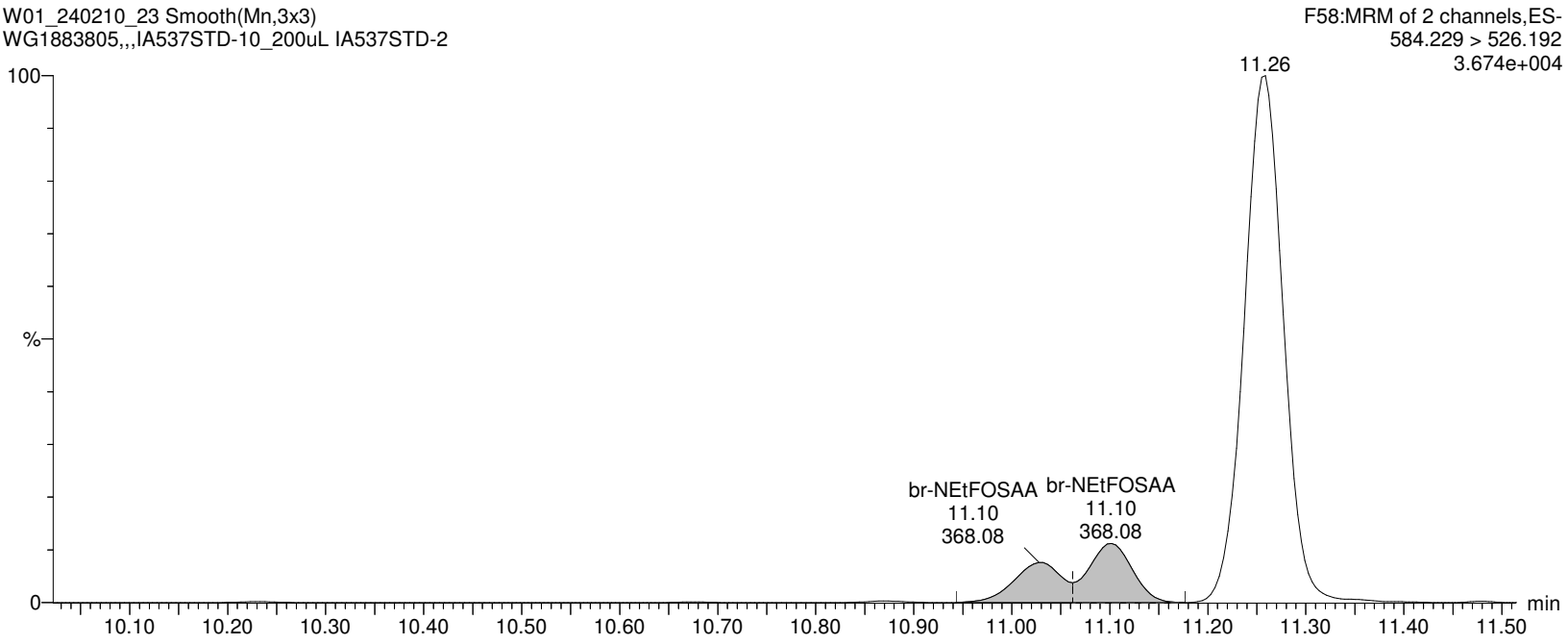

all concentration units in (ng/mL)

Alpha Analytical Inc.
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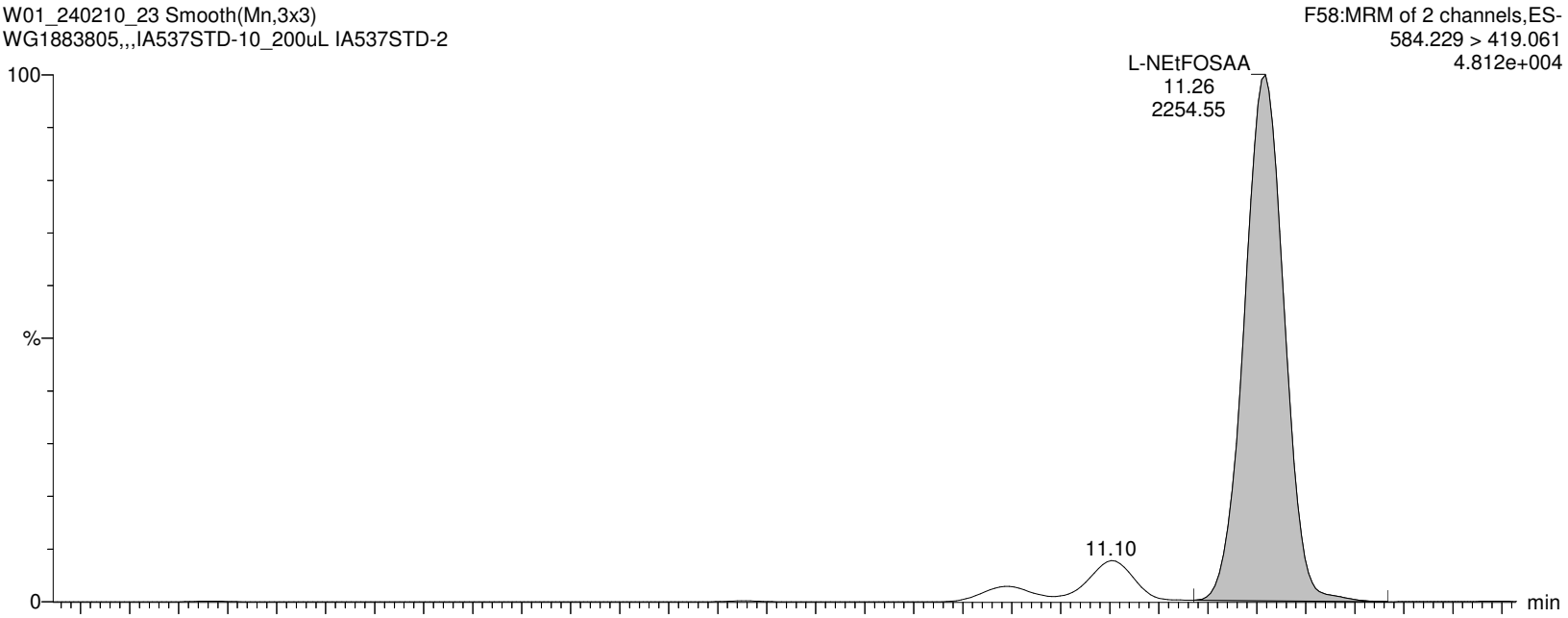

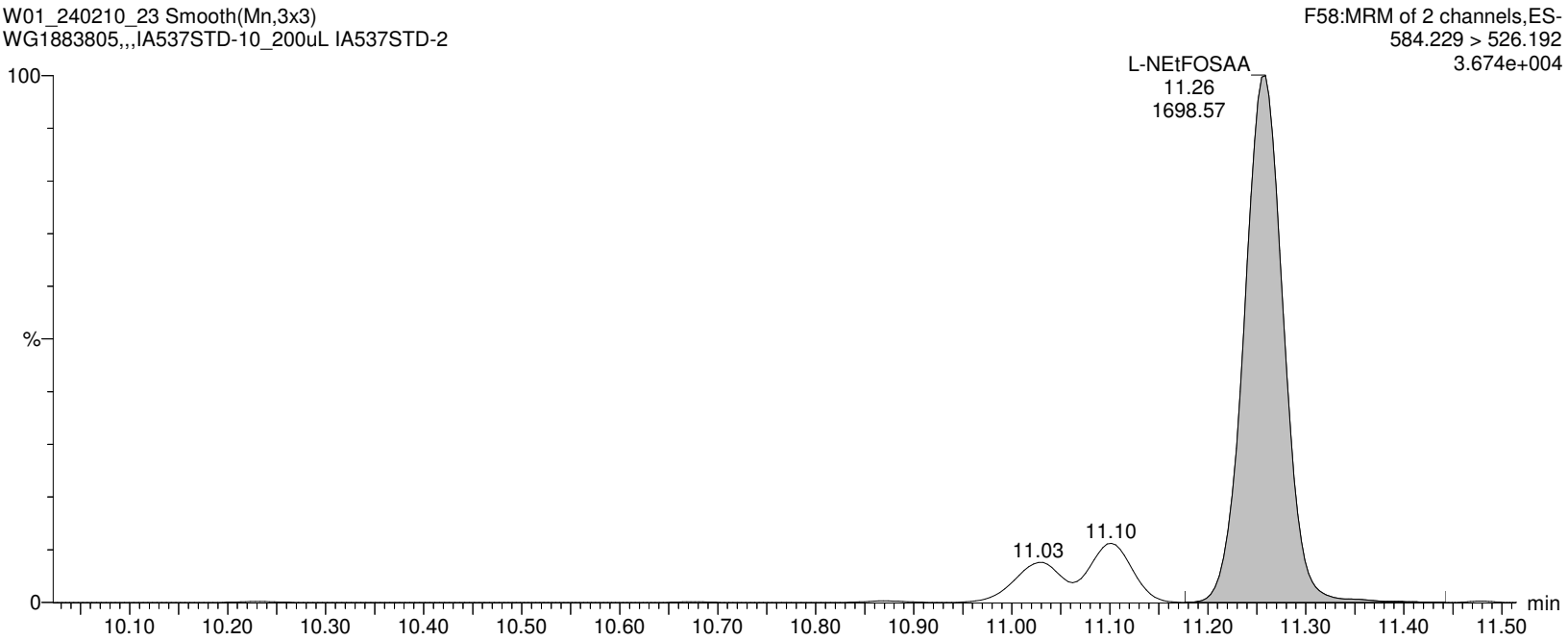

all concentration units in (ng/mL)

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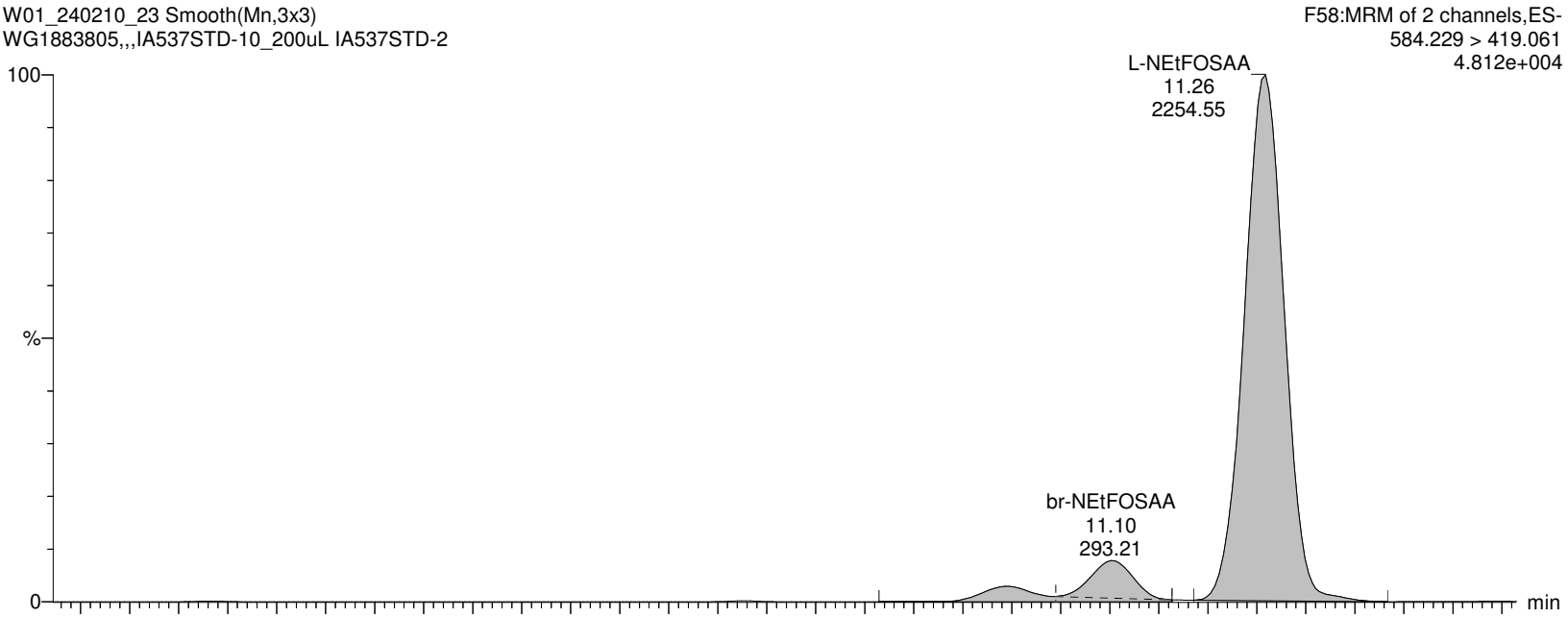

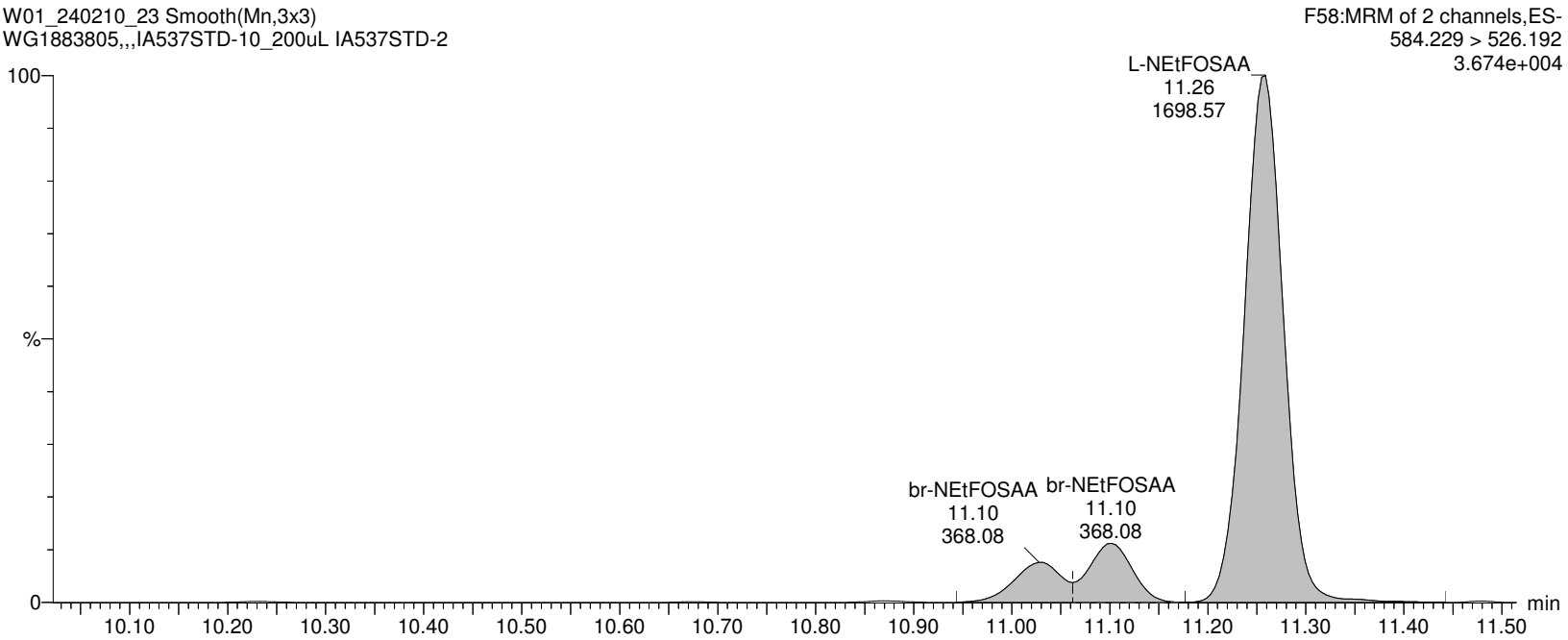

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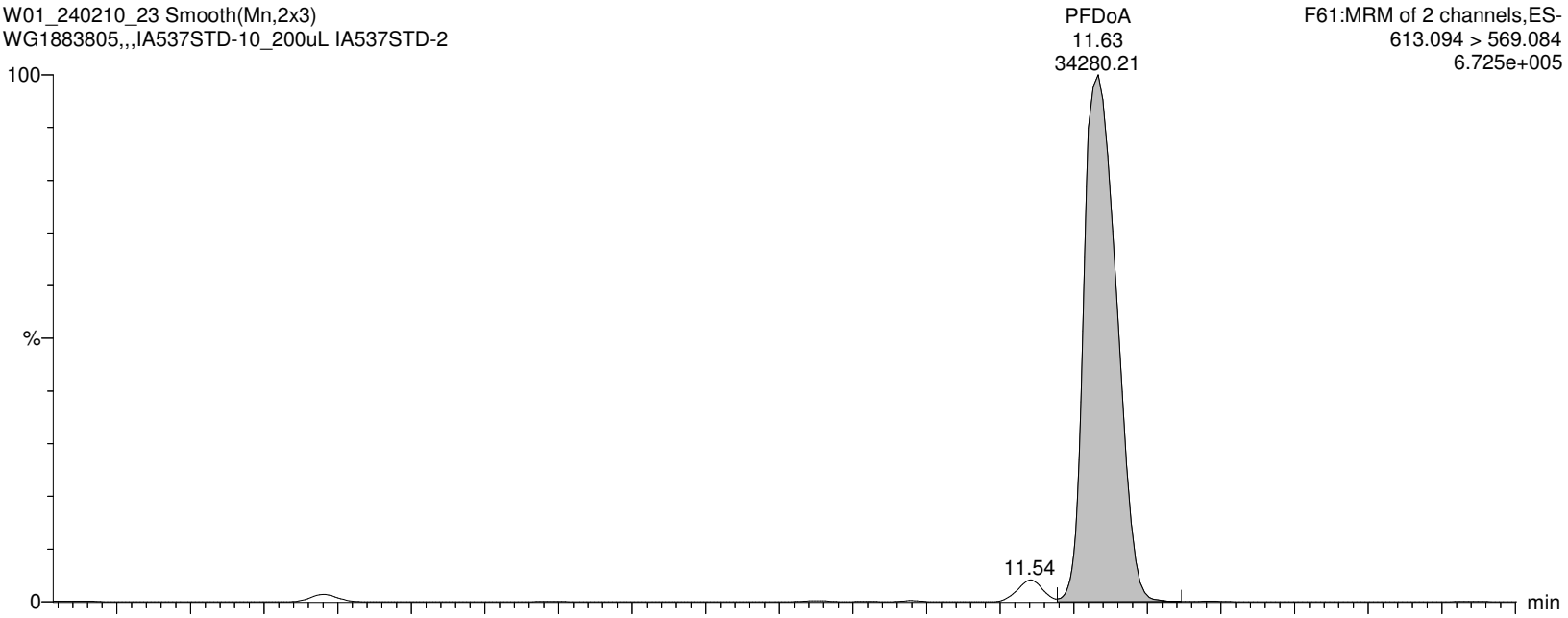

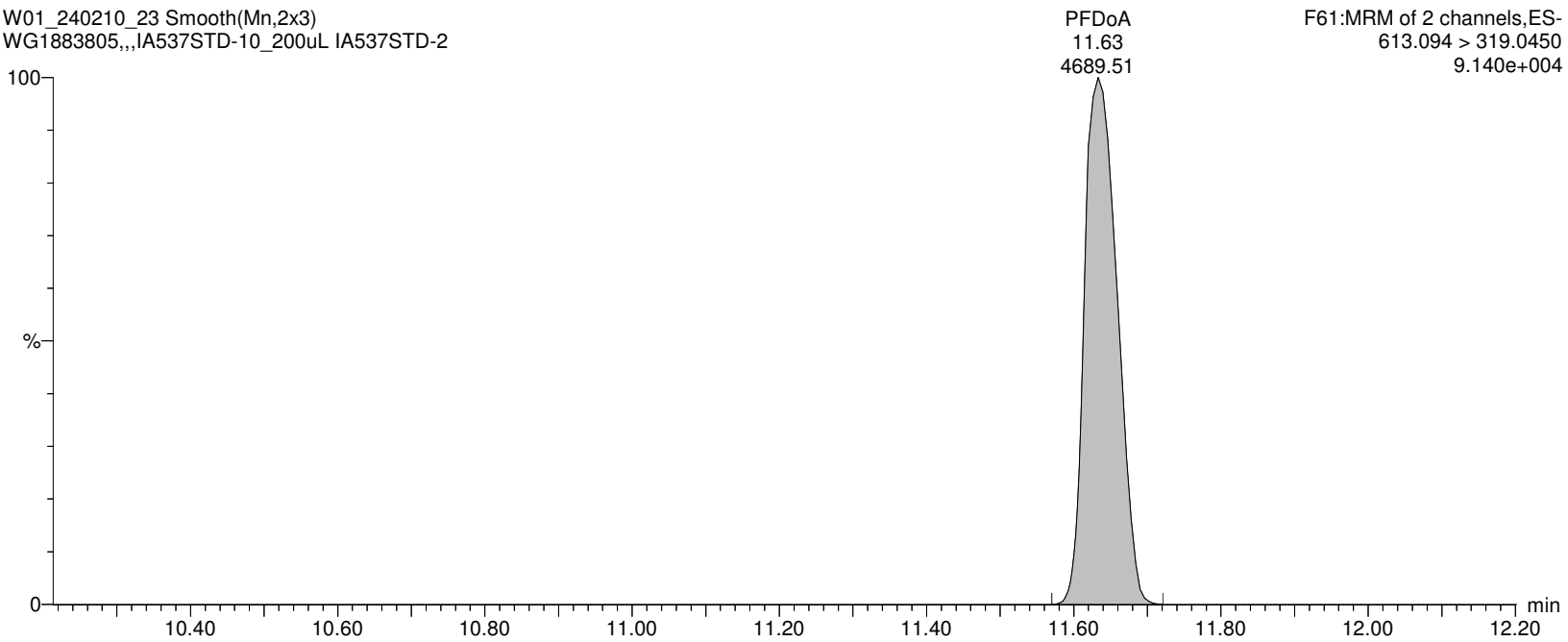

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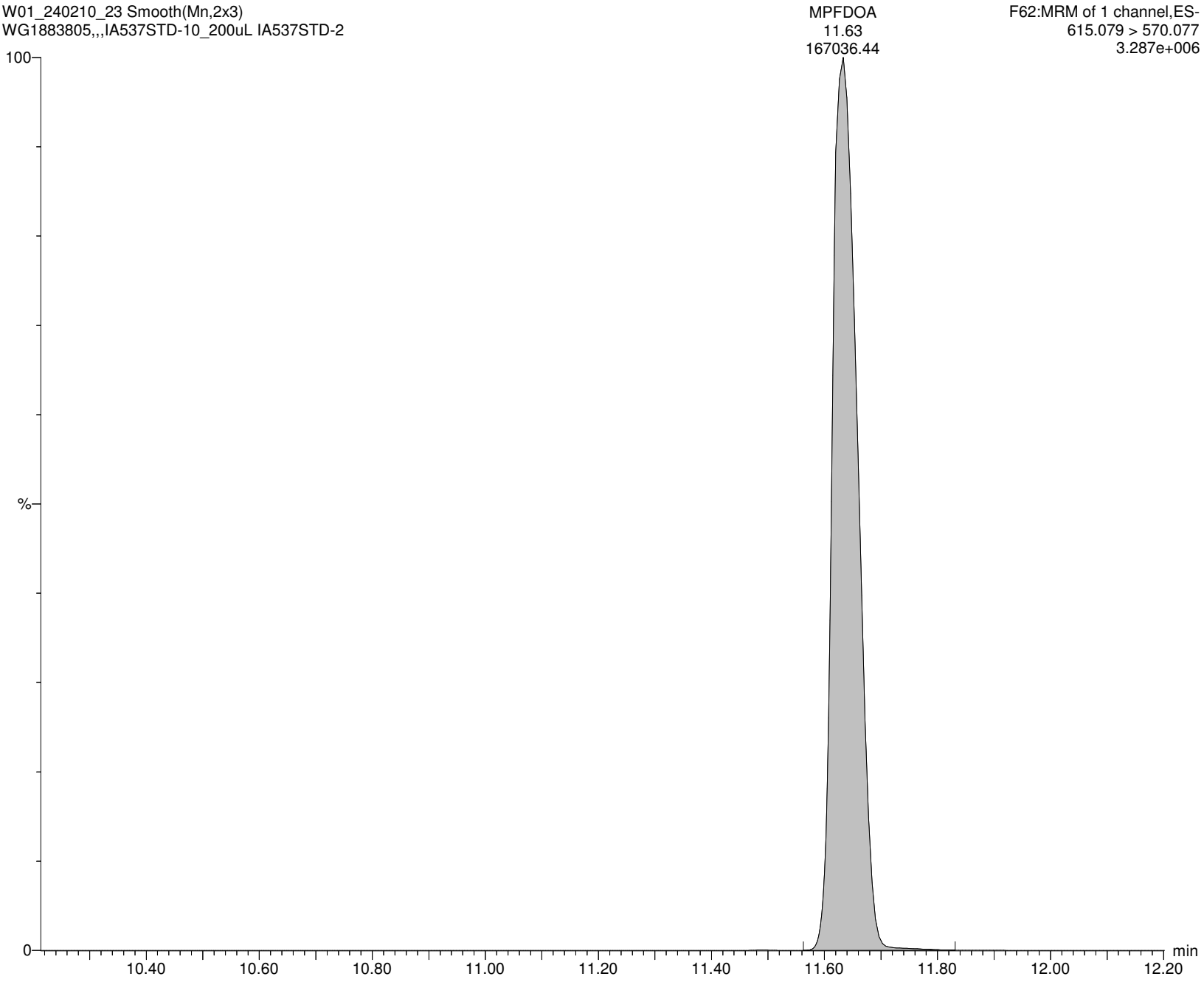

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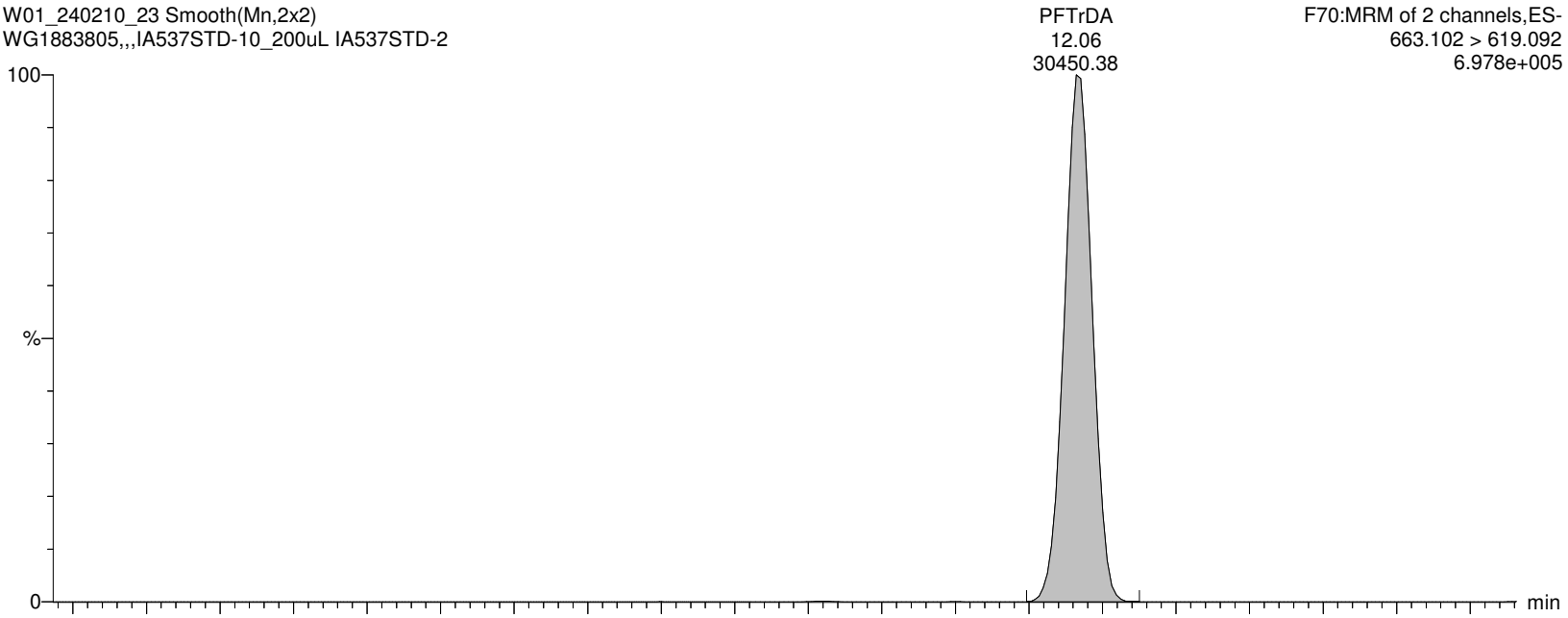

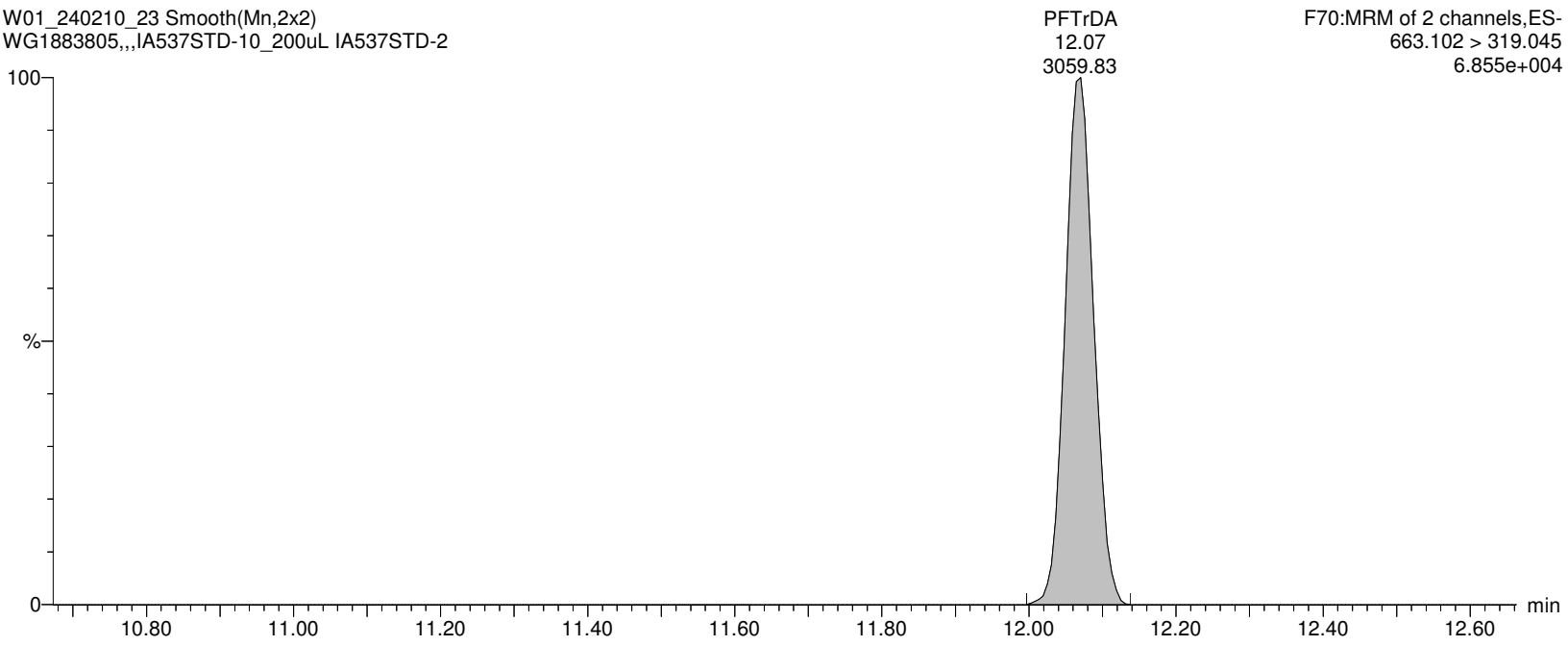

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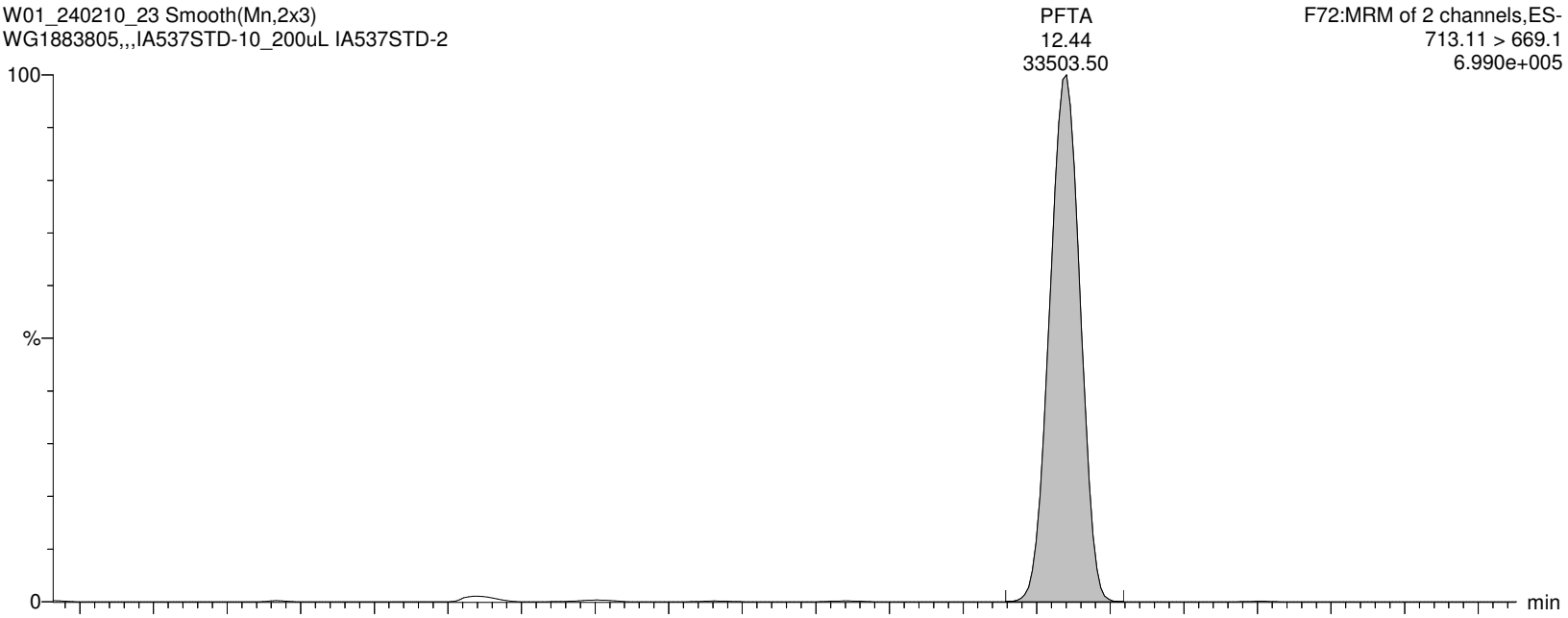

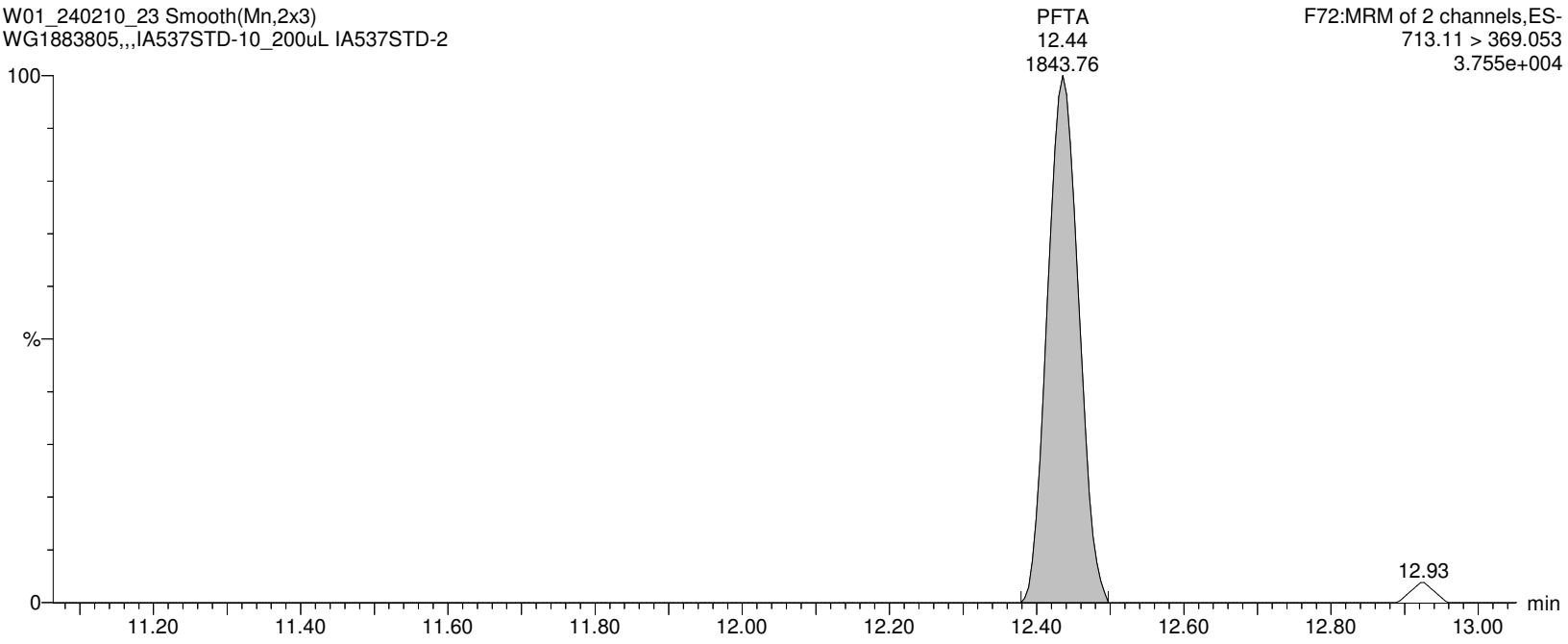

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:12 Eastern Standard Time

Name: W01_240210_23
ID: IA537STD-2
Date: 10-Feb-2024
Time: 16:46:39
Description: WG1883805,,,IA537STD-10_200uL
User: LCMS01:SG
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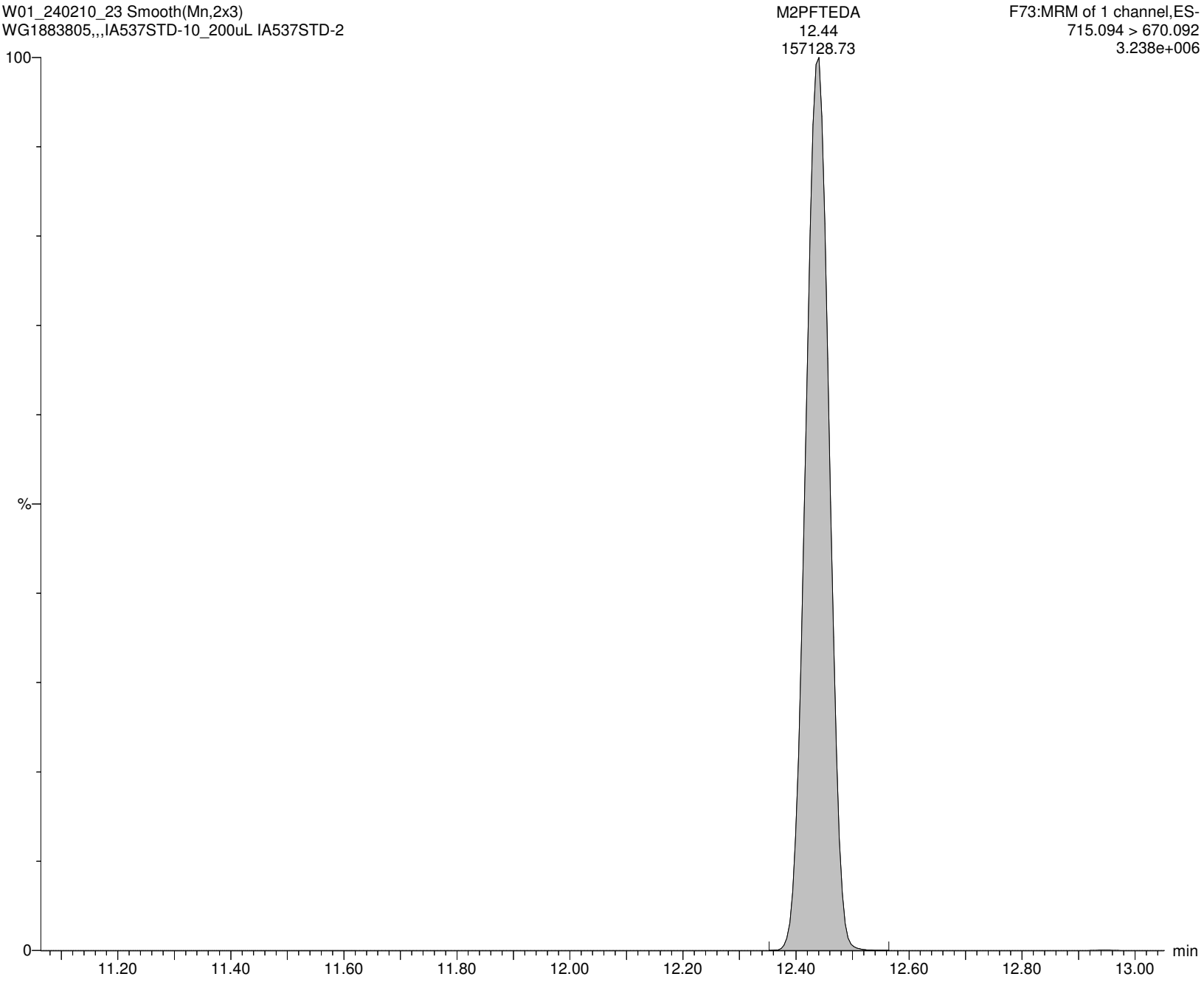

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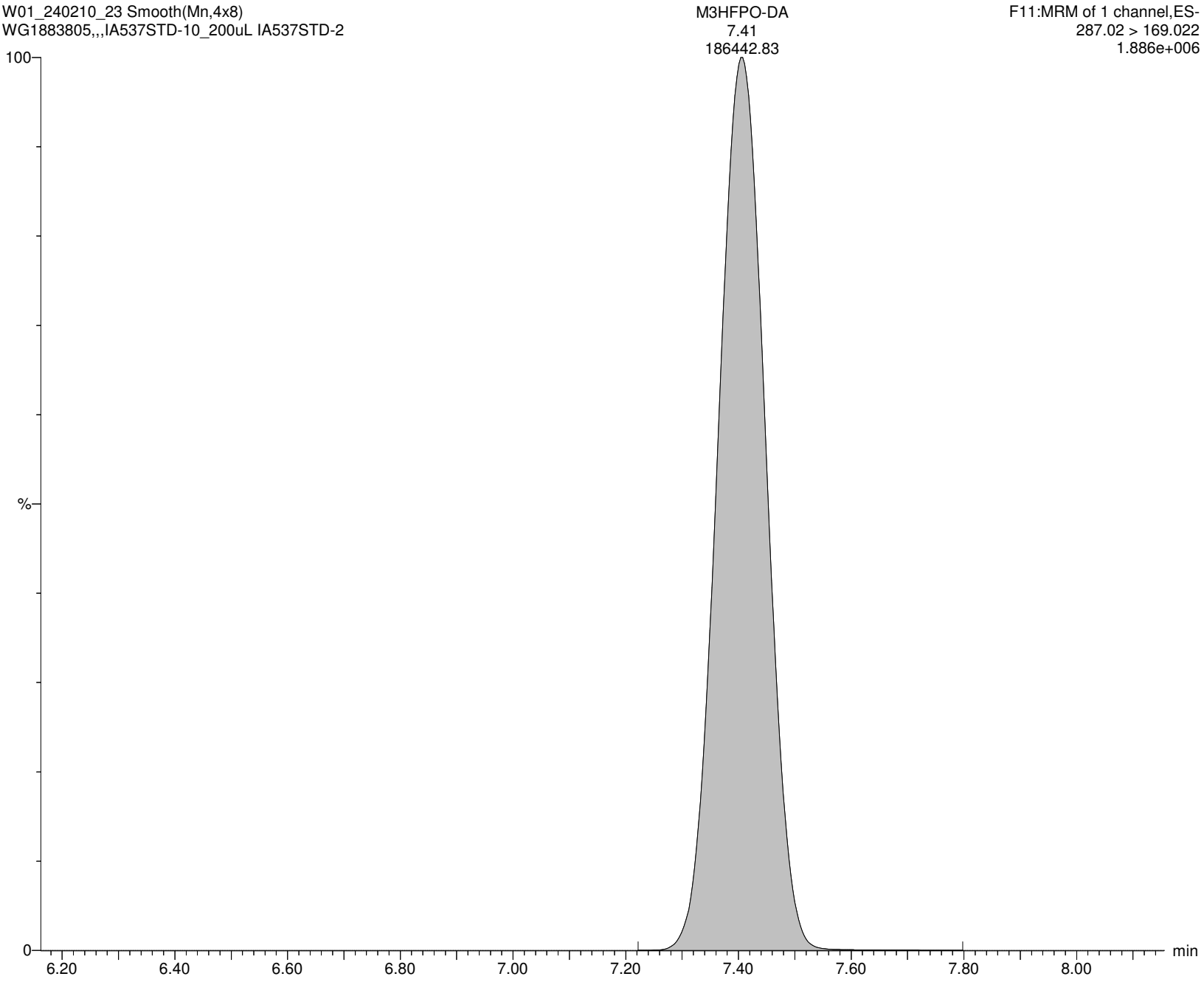

all concentration units in (ng/mL)

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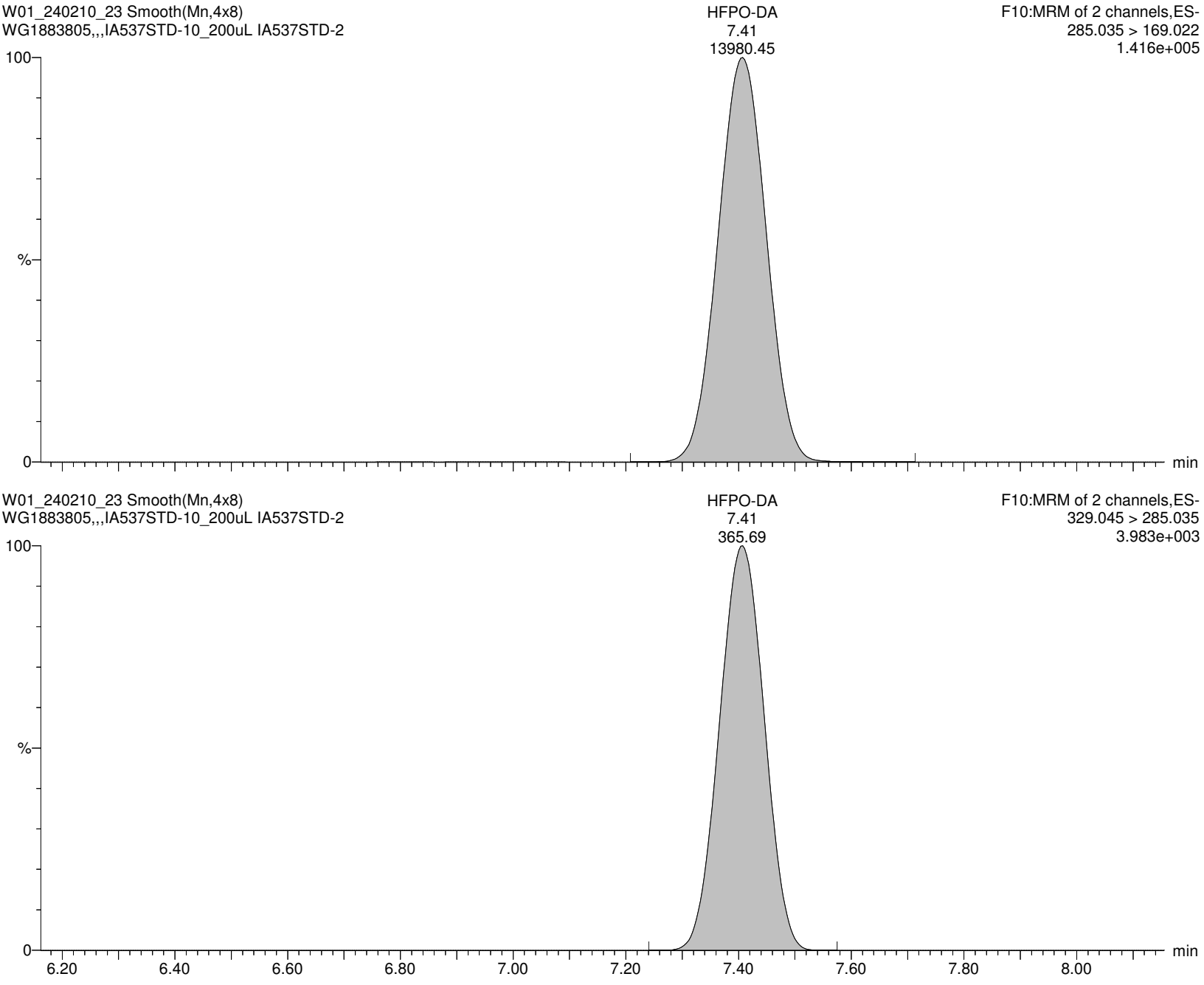

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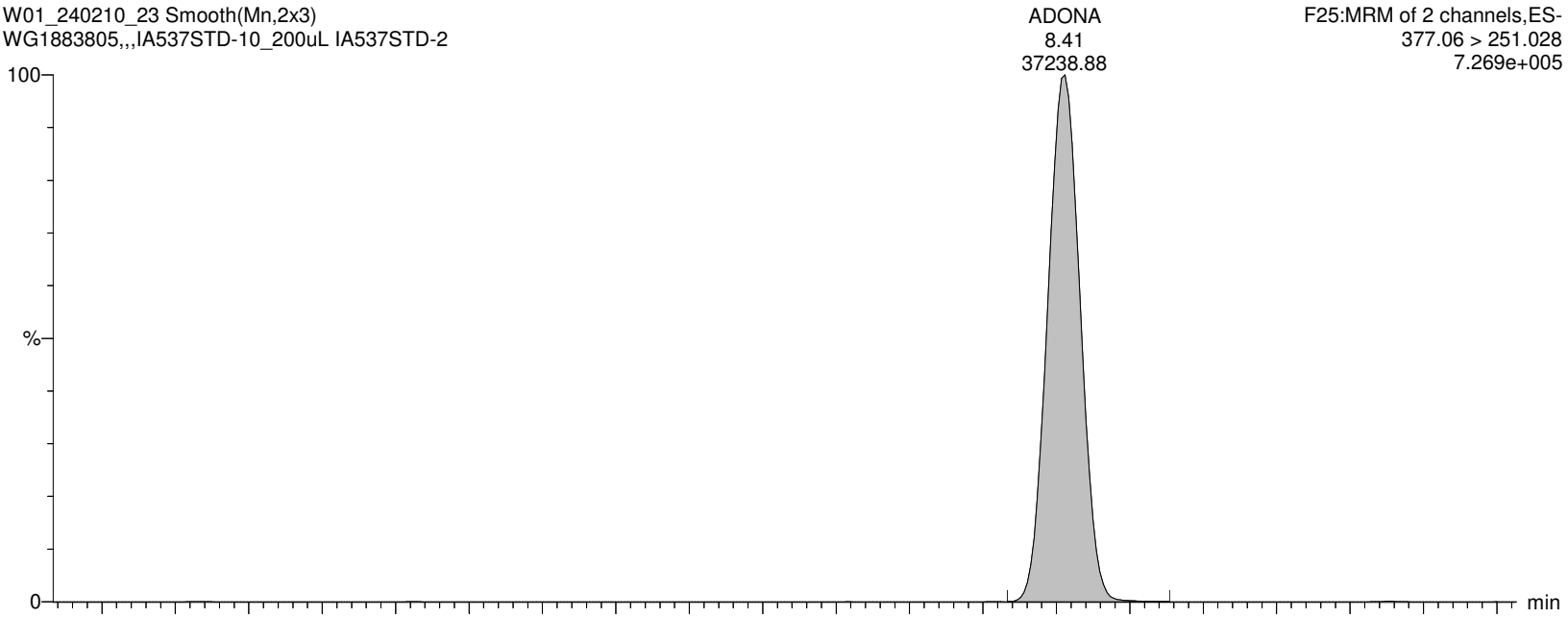

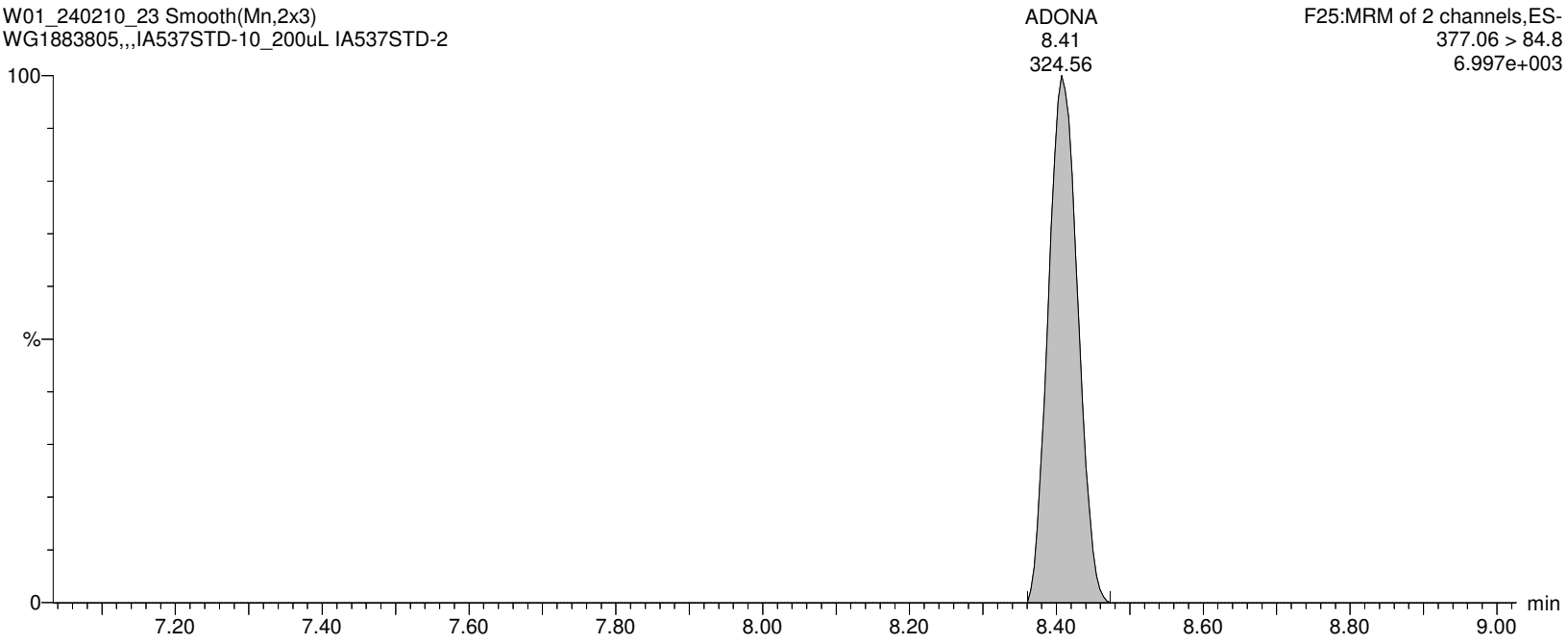

all concentration units in (ng/mL)

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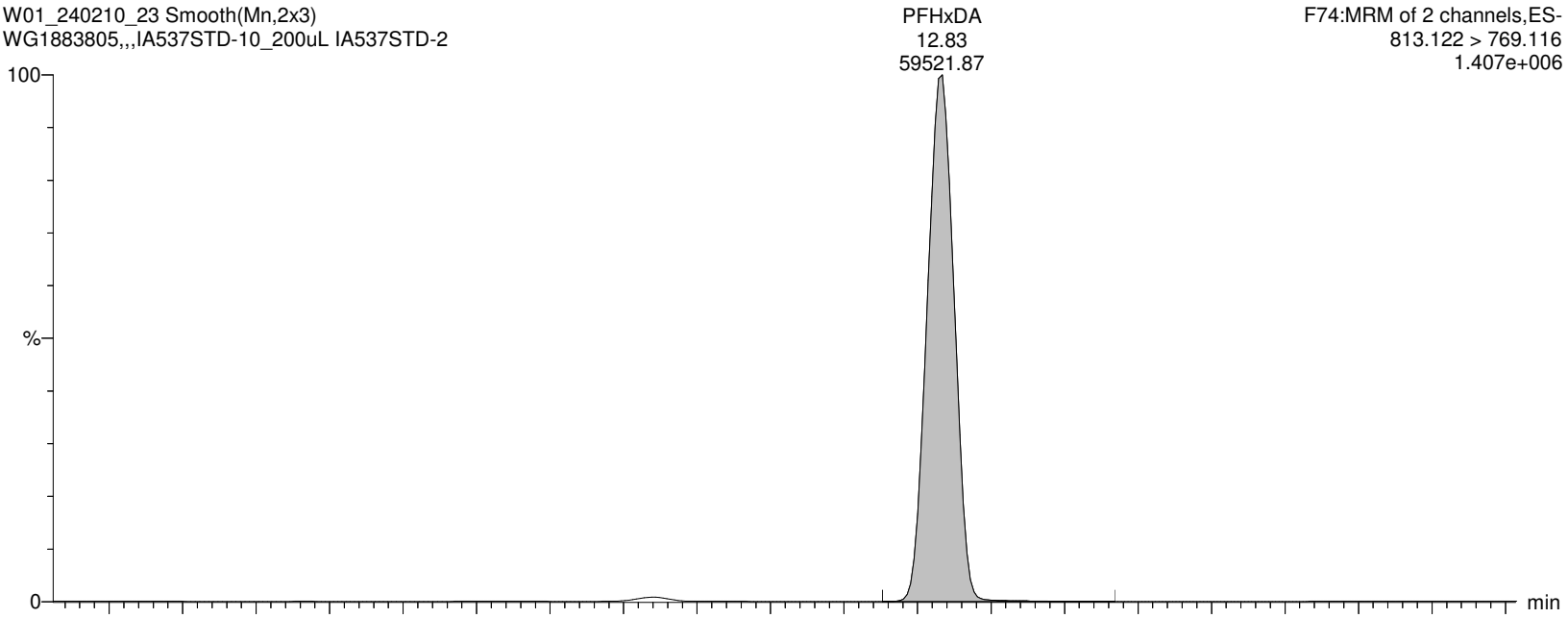

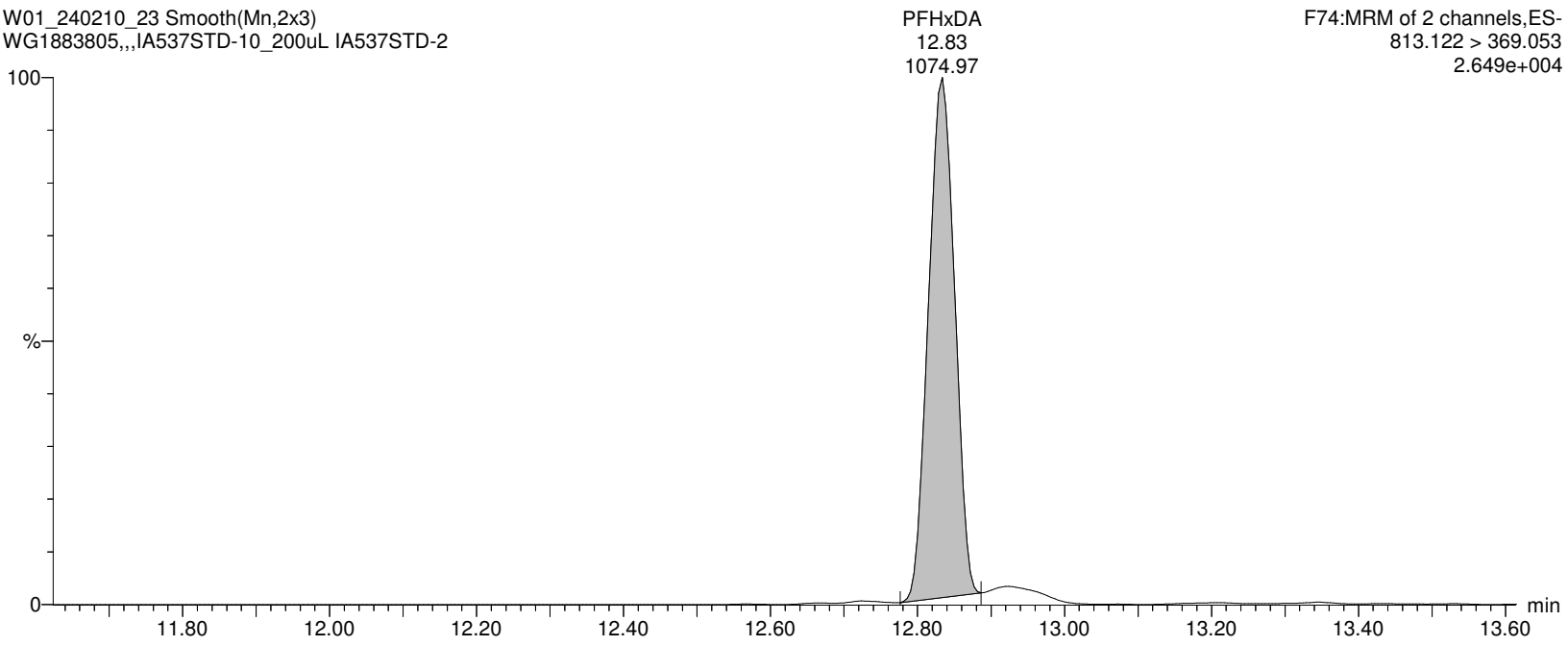

all concentration units in (ng/mL)

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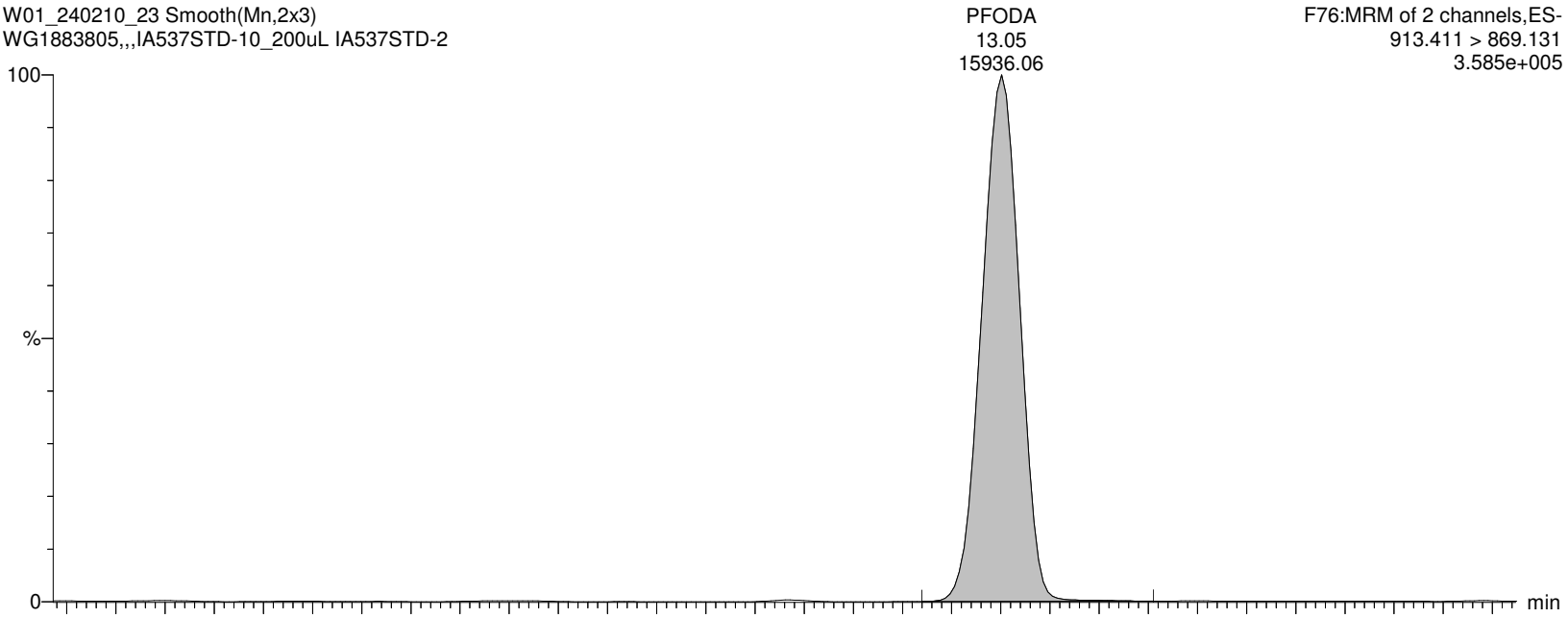

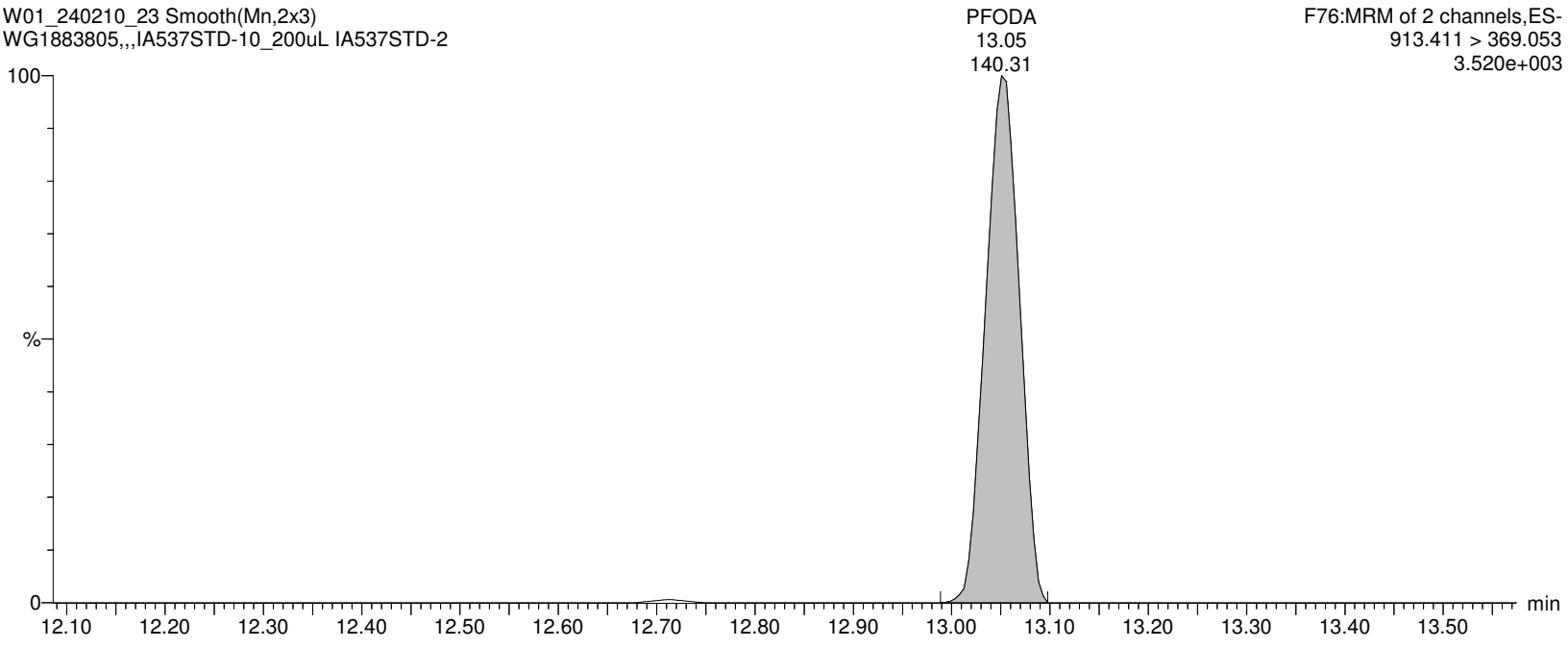

all concentration units in (ng/mL)

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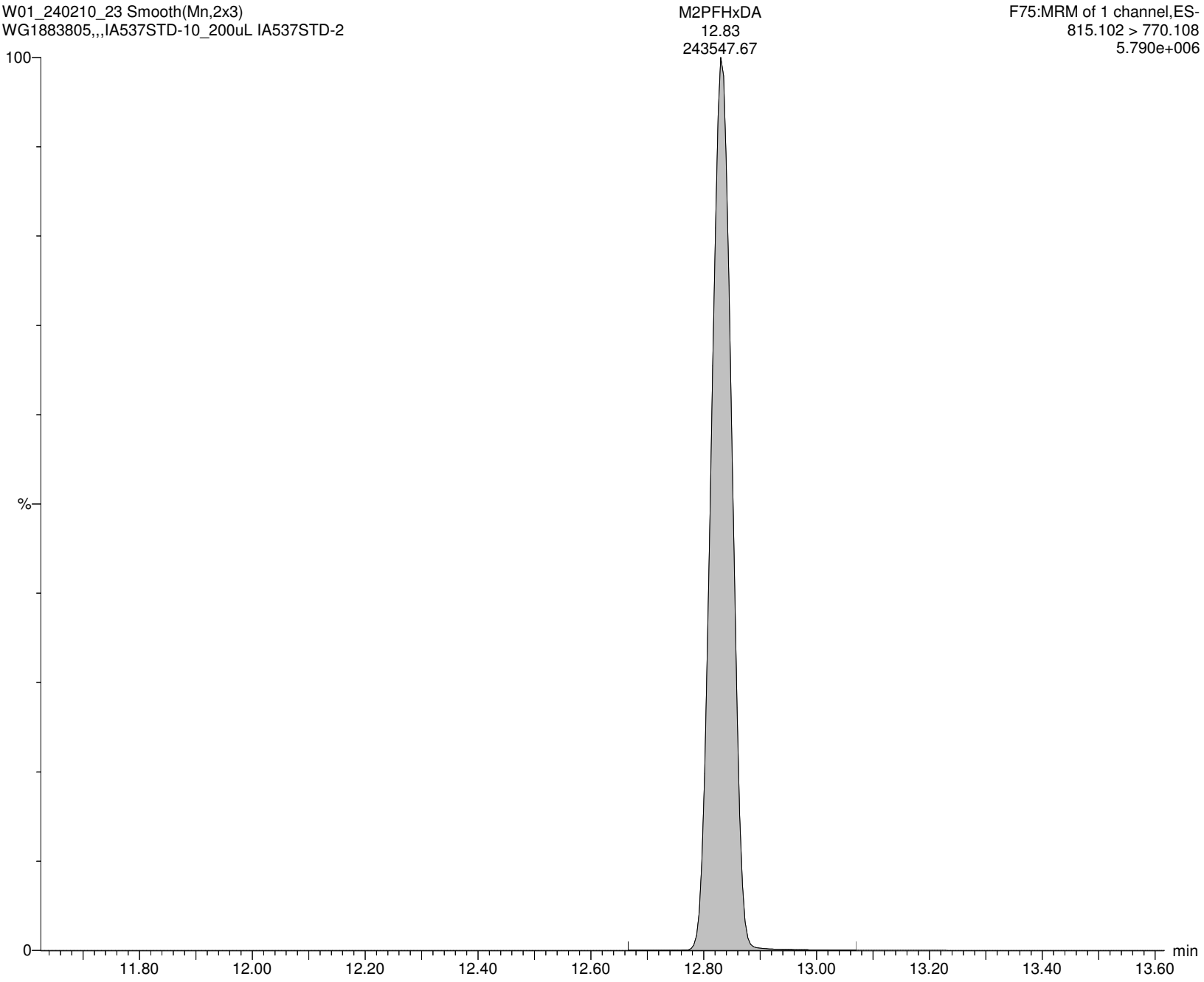

all concentration units in (ng/mL)

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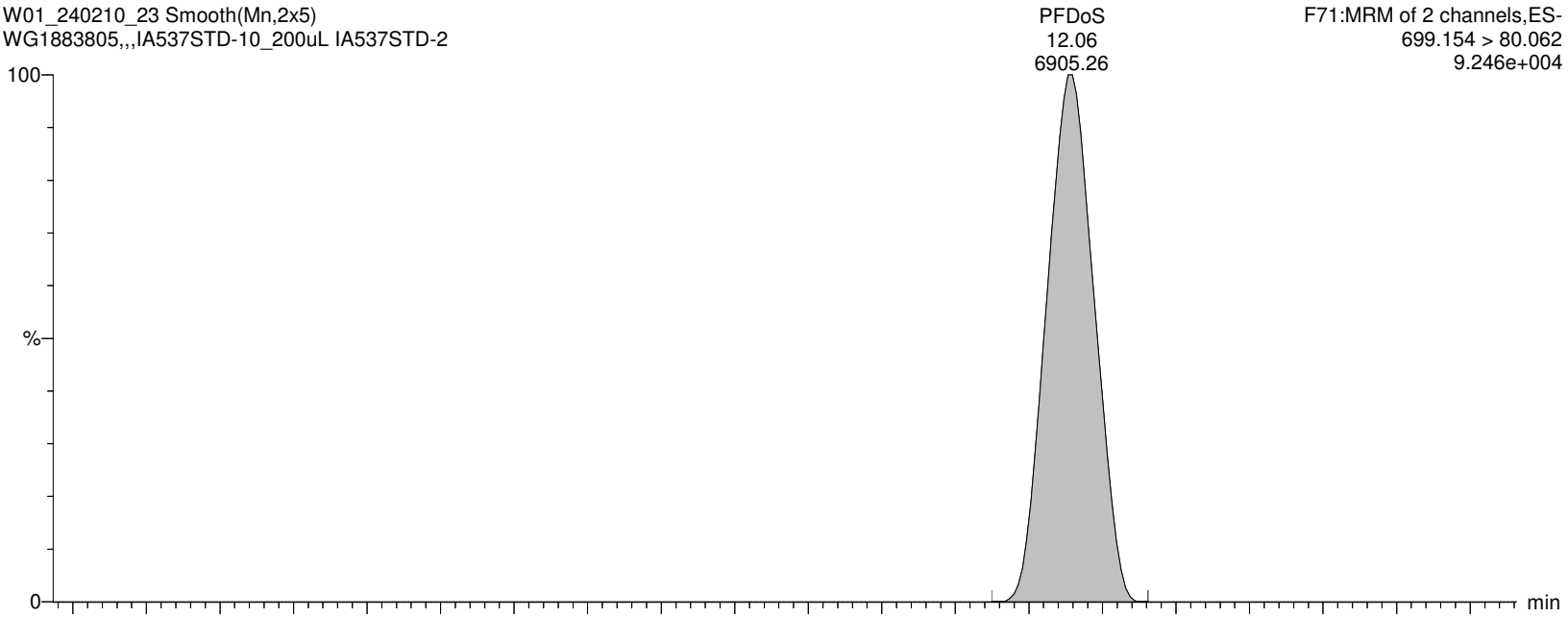

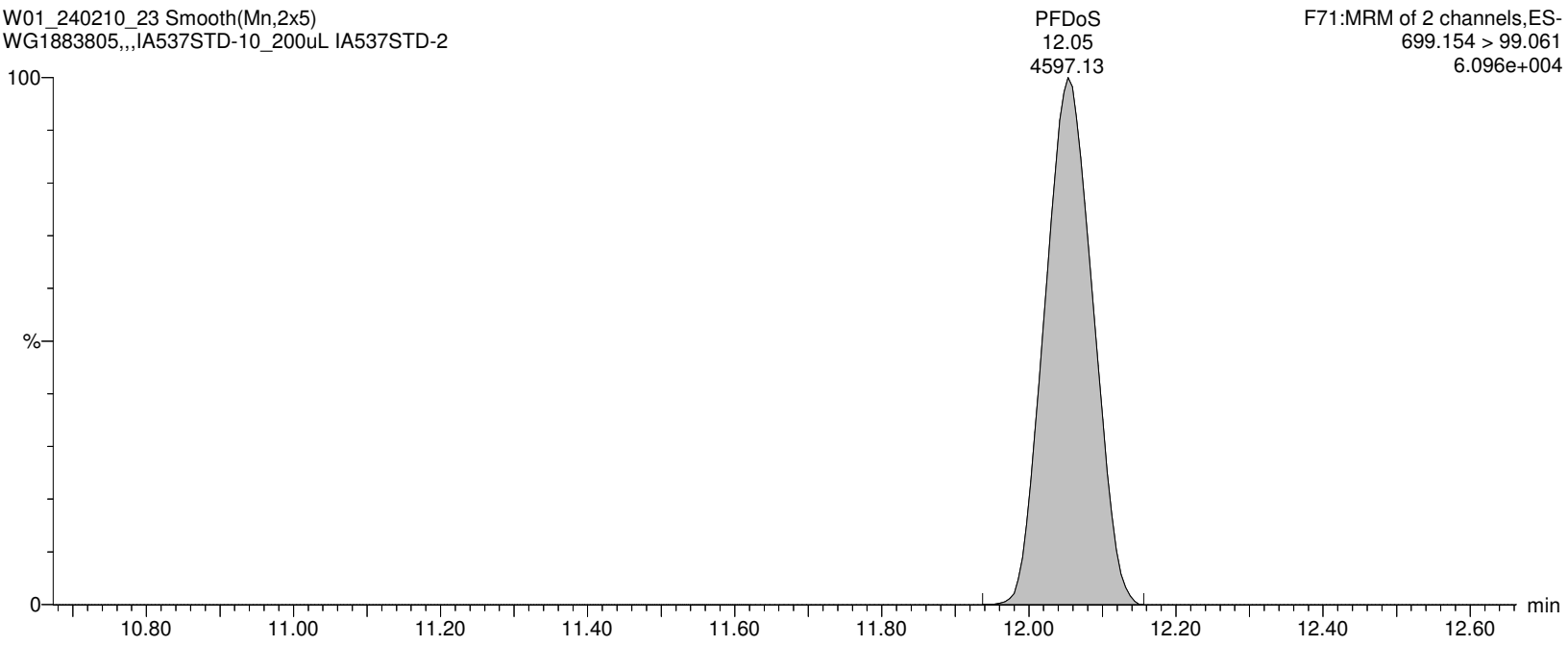

all concentration units in (ng/mL)

Alpha Analytical Inc.
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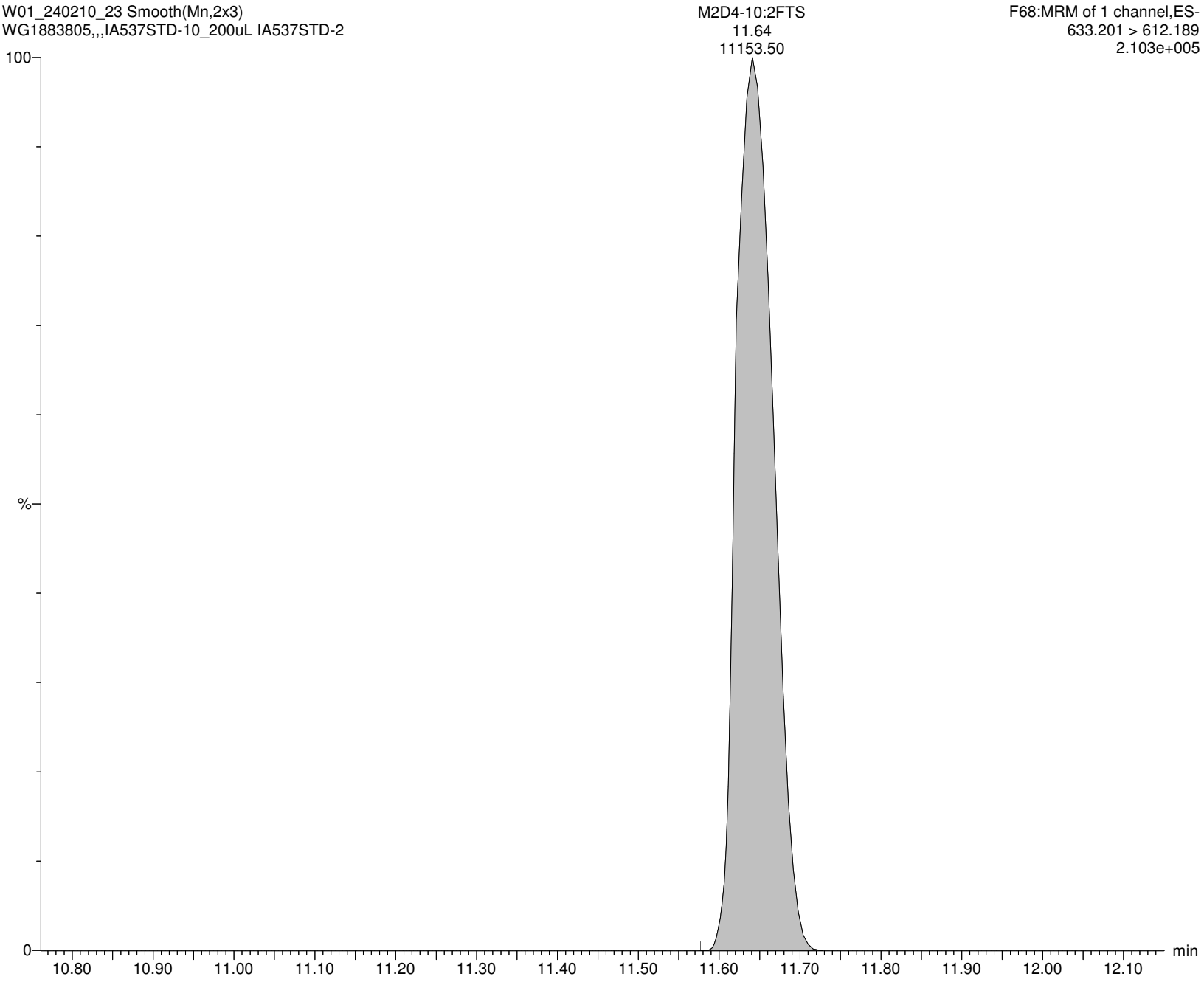

all concentration units in (ng/mL)

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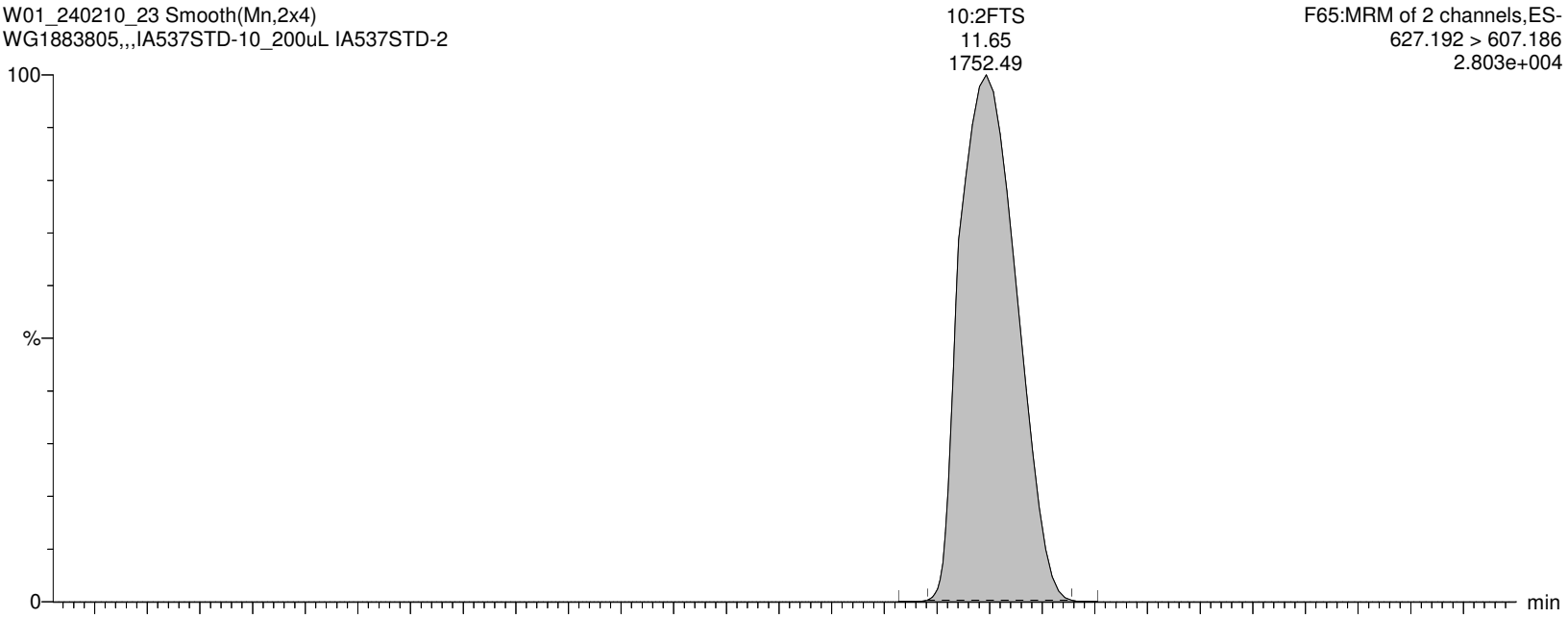
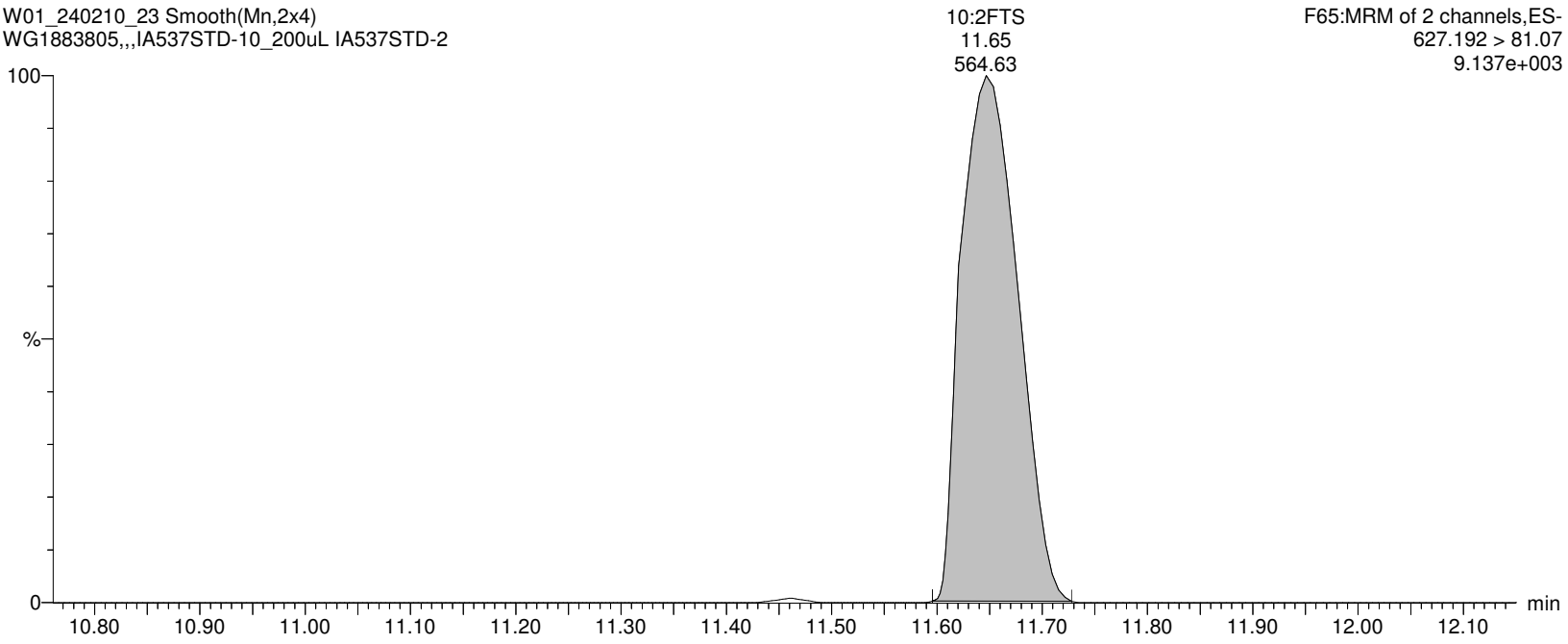
10:2FTS





all concentration units in (ng/mL)

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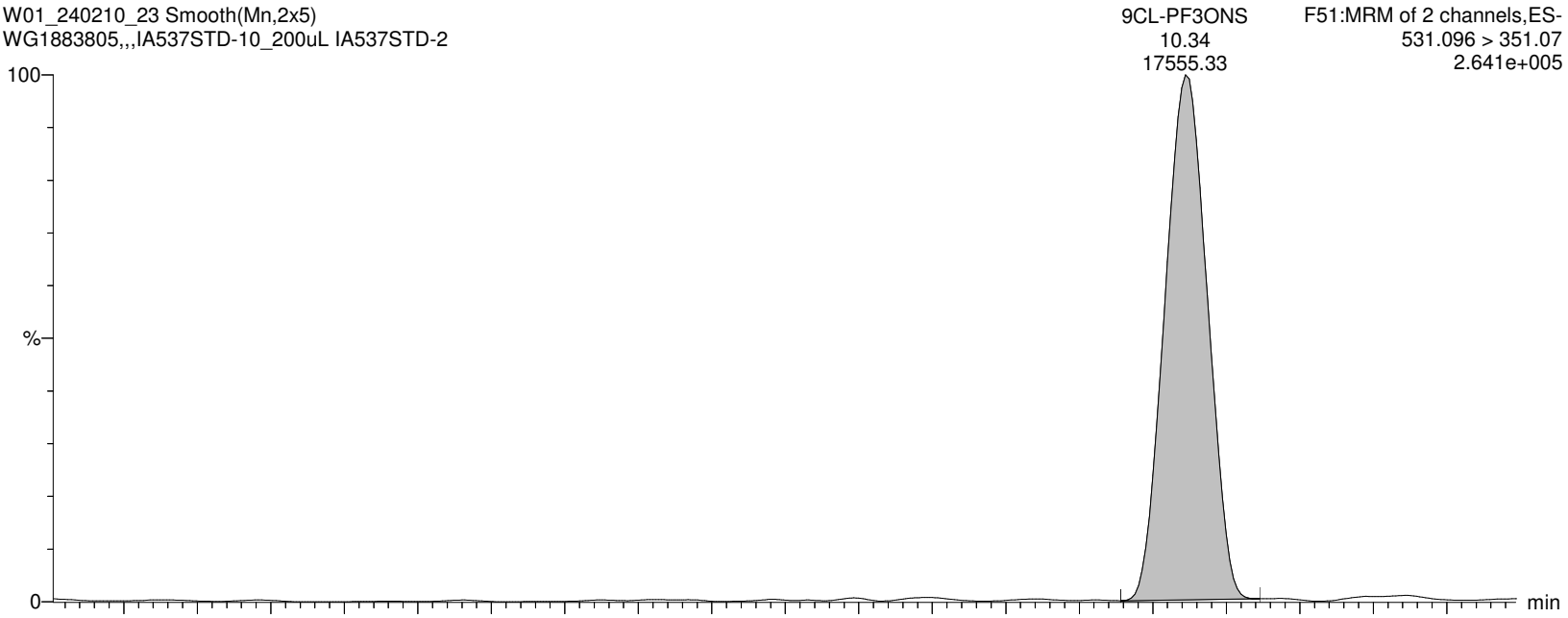
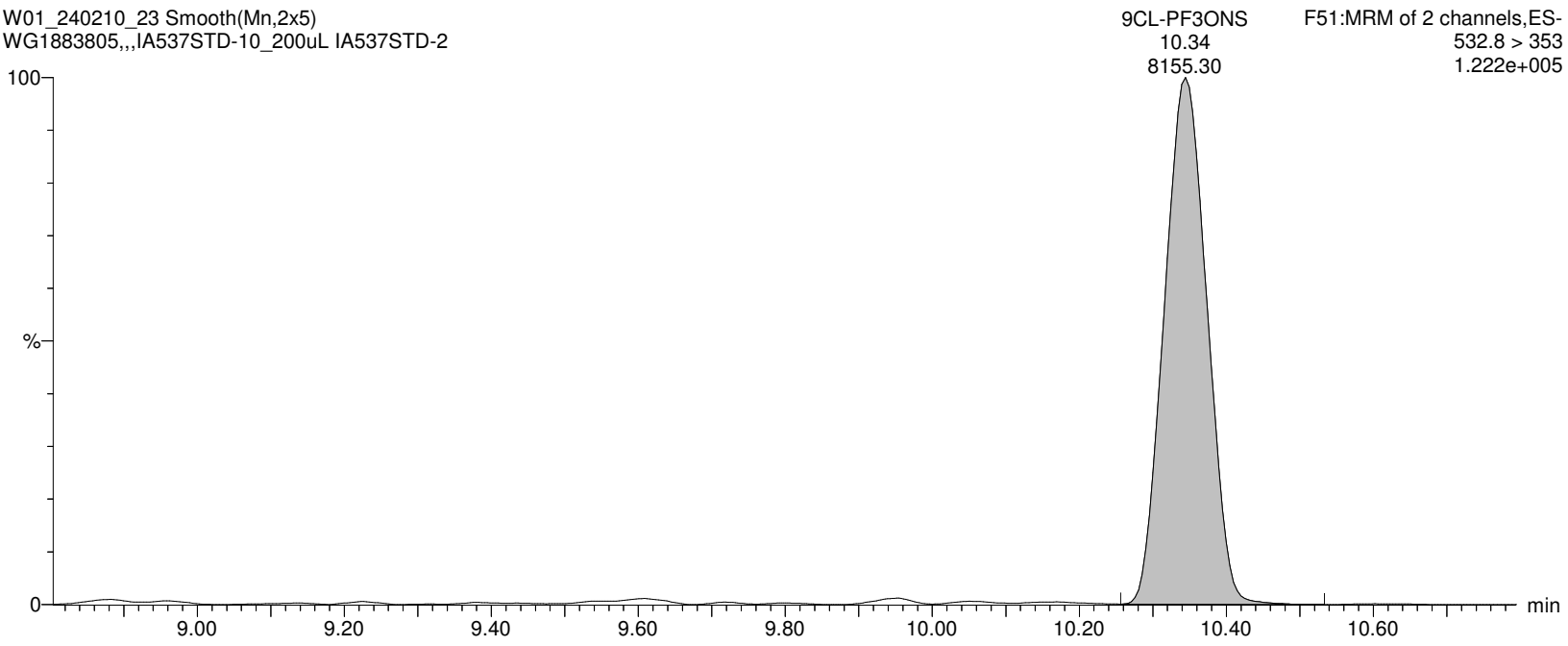
9CL-PF3ONS





all concentration units in (ng/mL)

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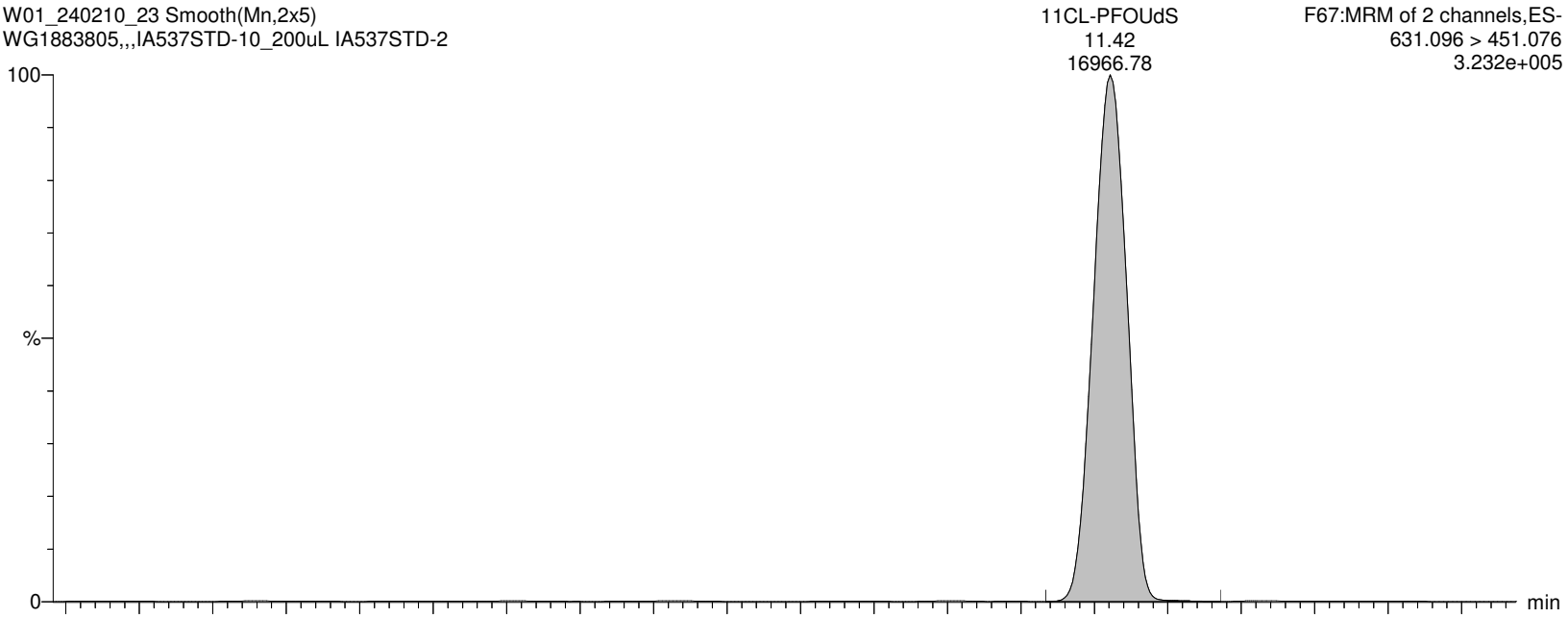
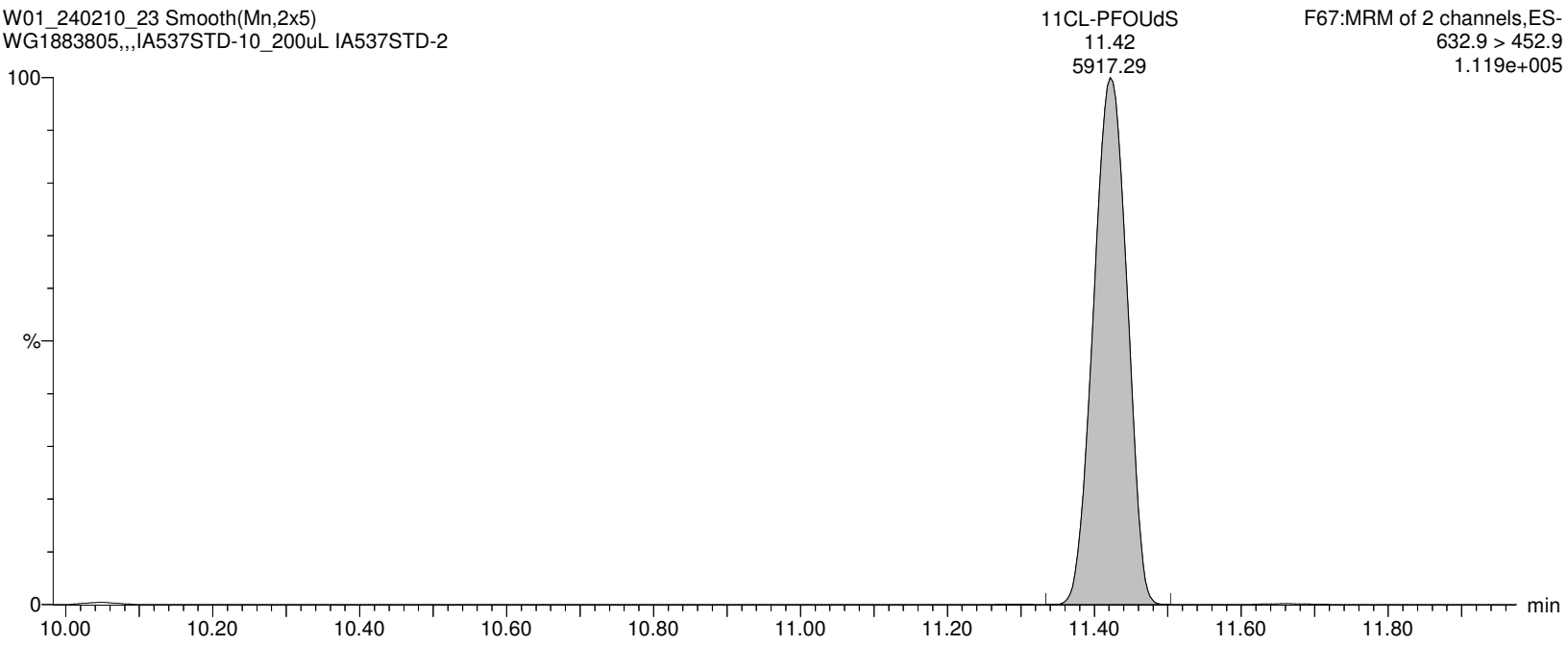
11CL-PFOUdS





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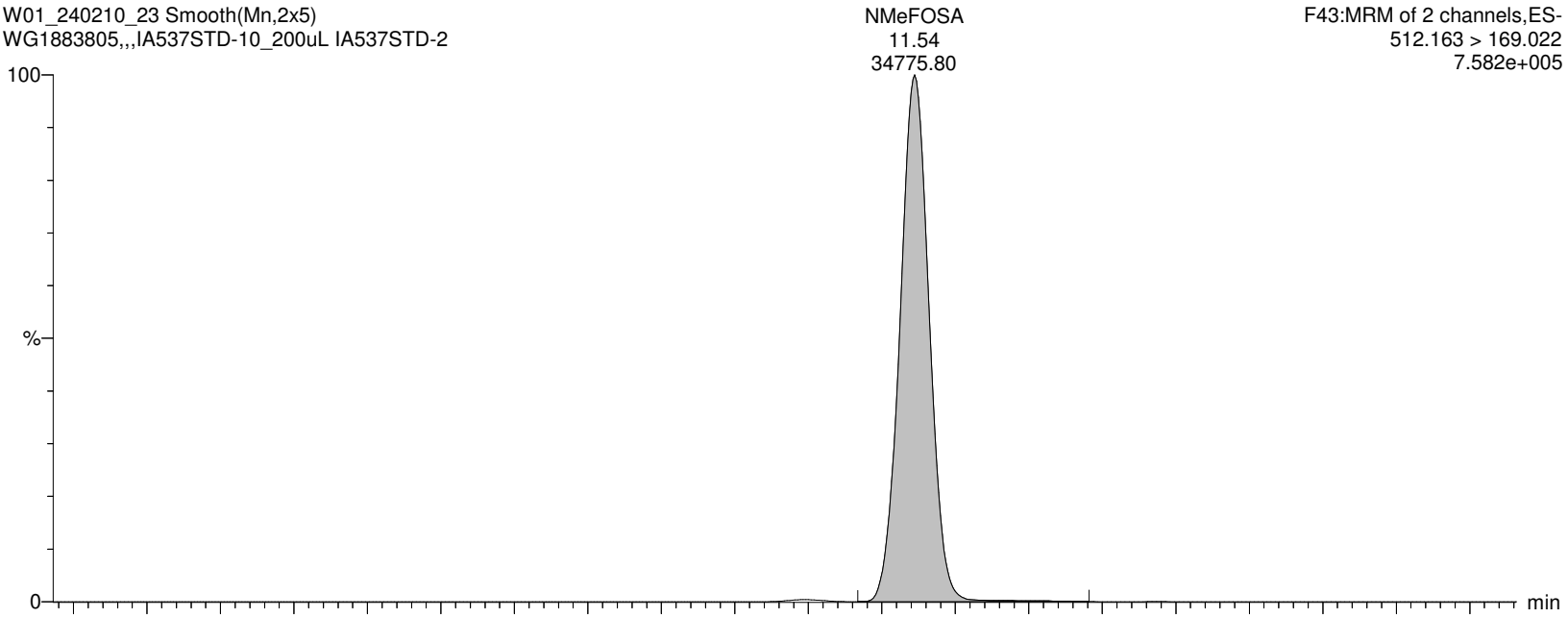

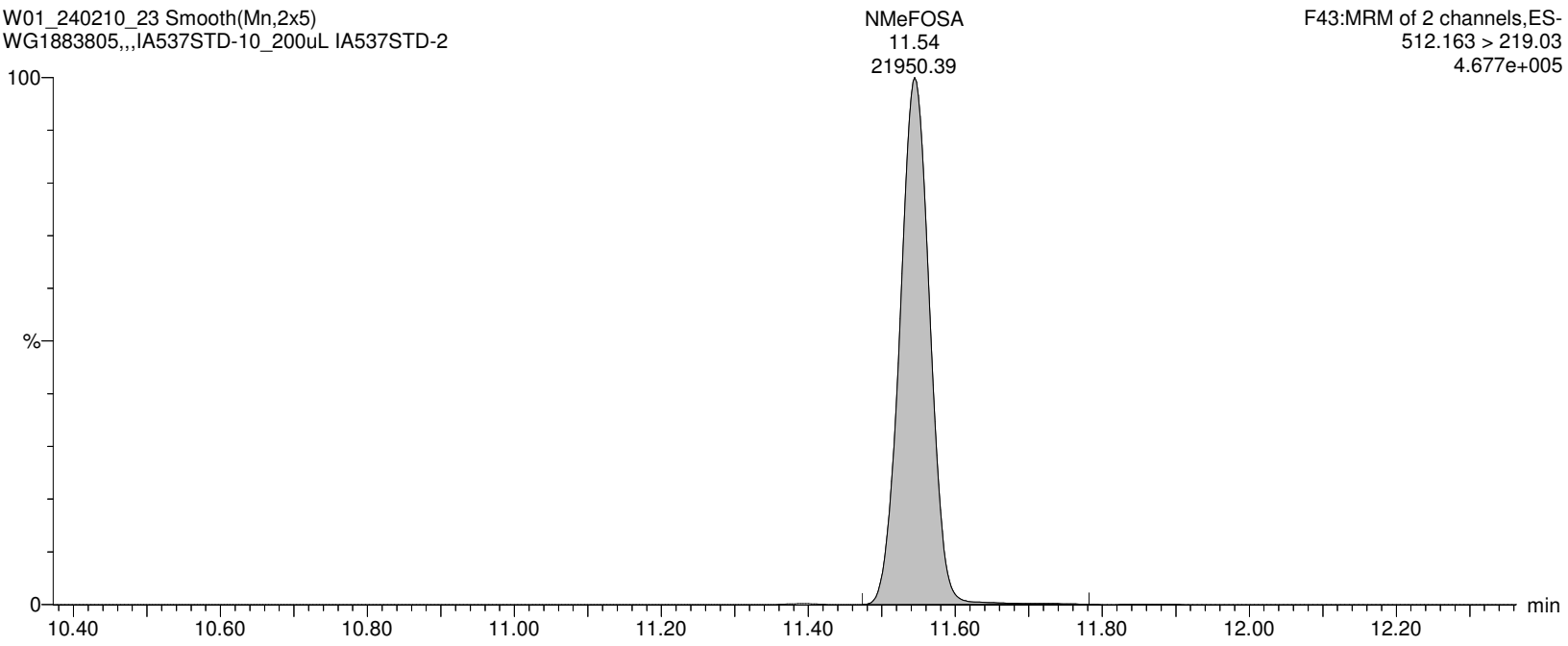

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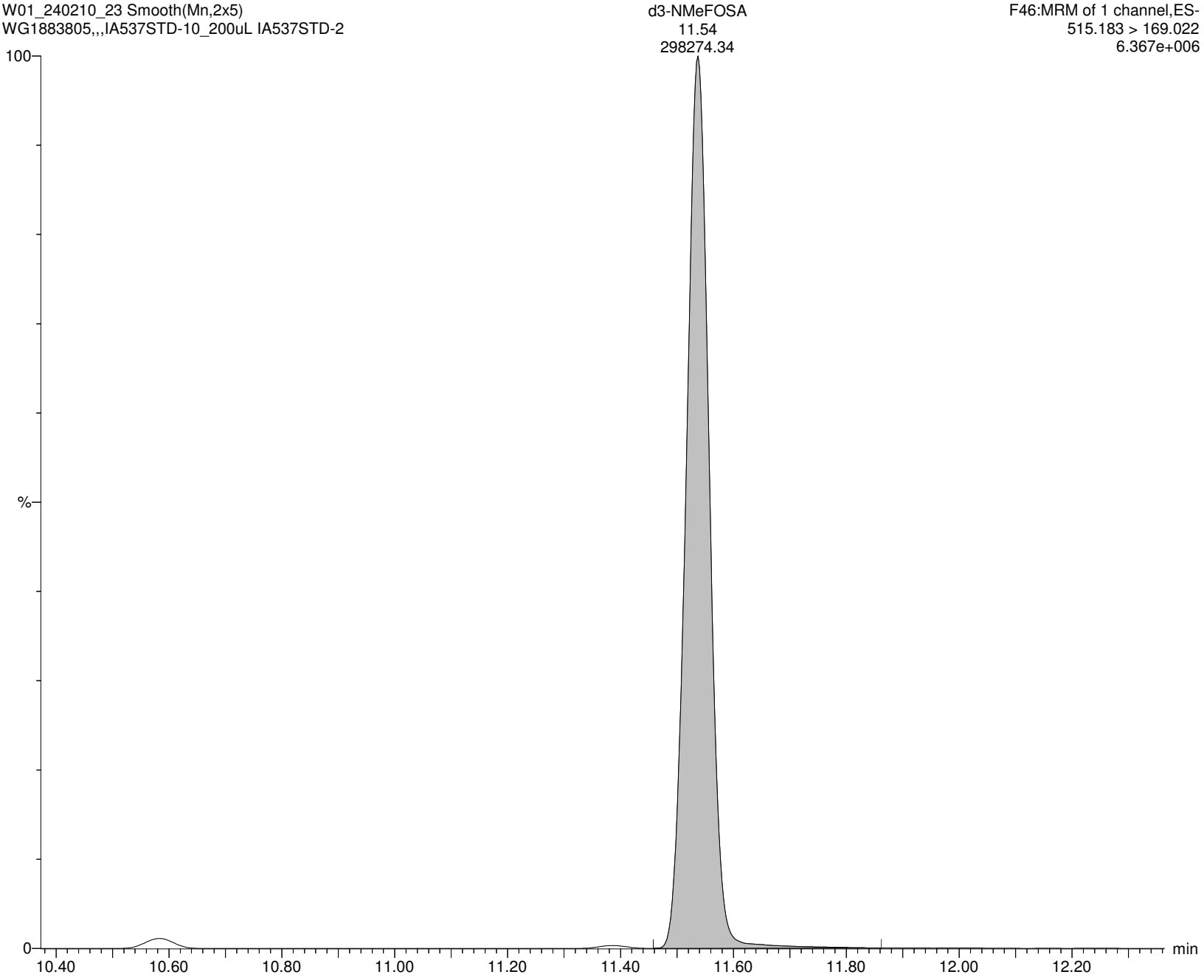
d3-NMeFOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:12 Eastern Standard Time

Name: W01_240210_23
ID: IA537STD-2
Date: 10-Feb-2024
Time: 16:46:39
Description: WG1883805,,,IA537STD-10_200uL
User: LCMS01:SG
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEA0276
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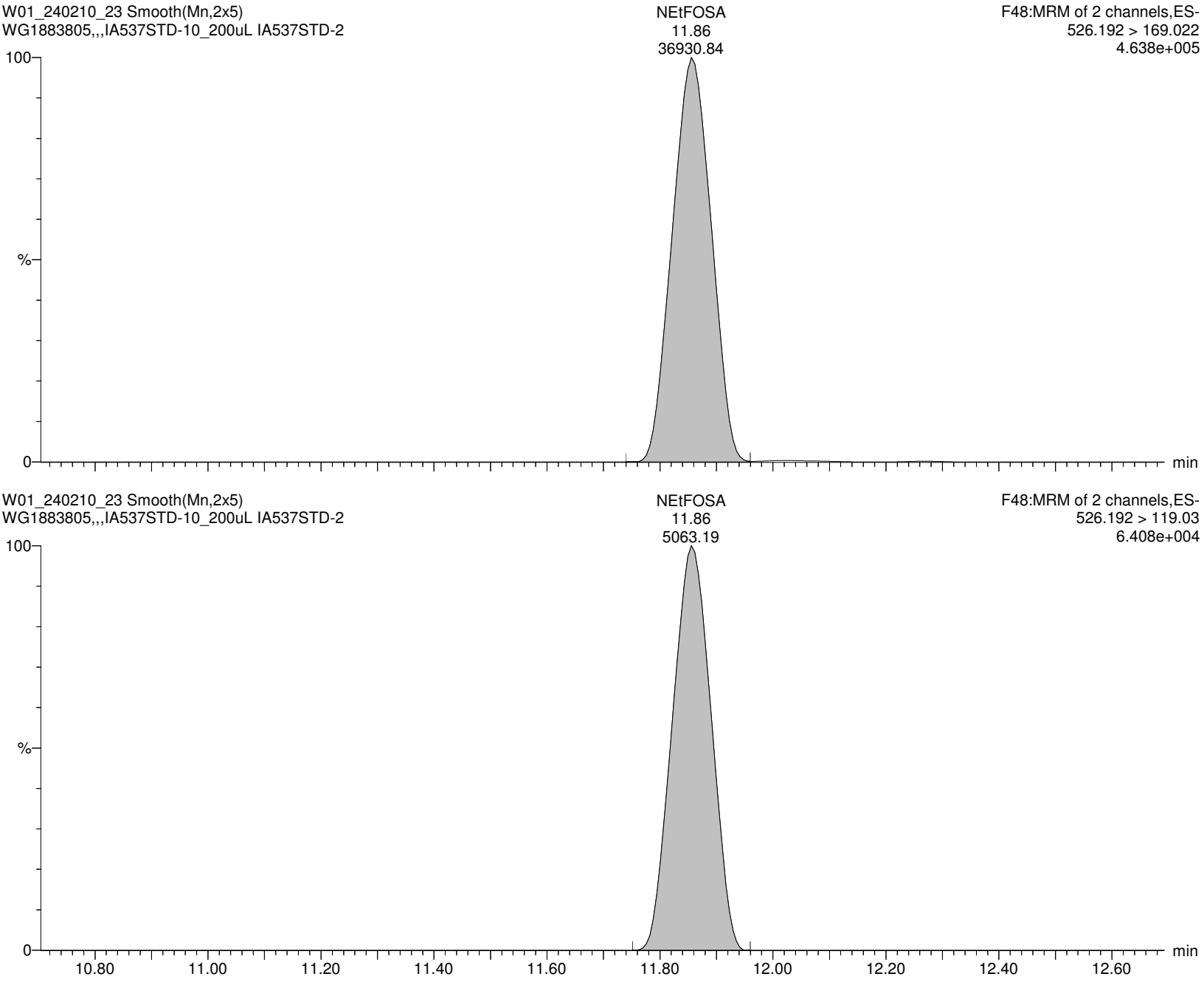
NEtFOSA



all concentration units in (ng/mL)

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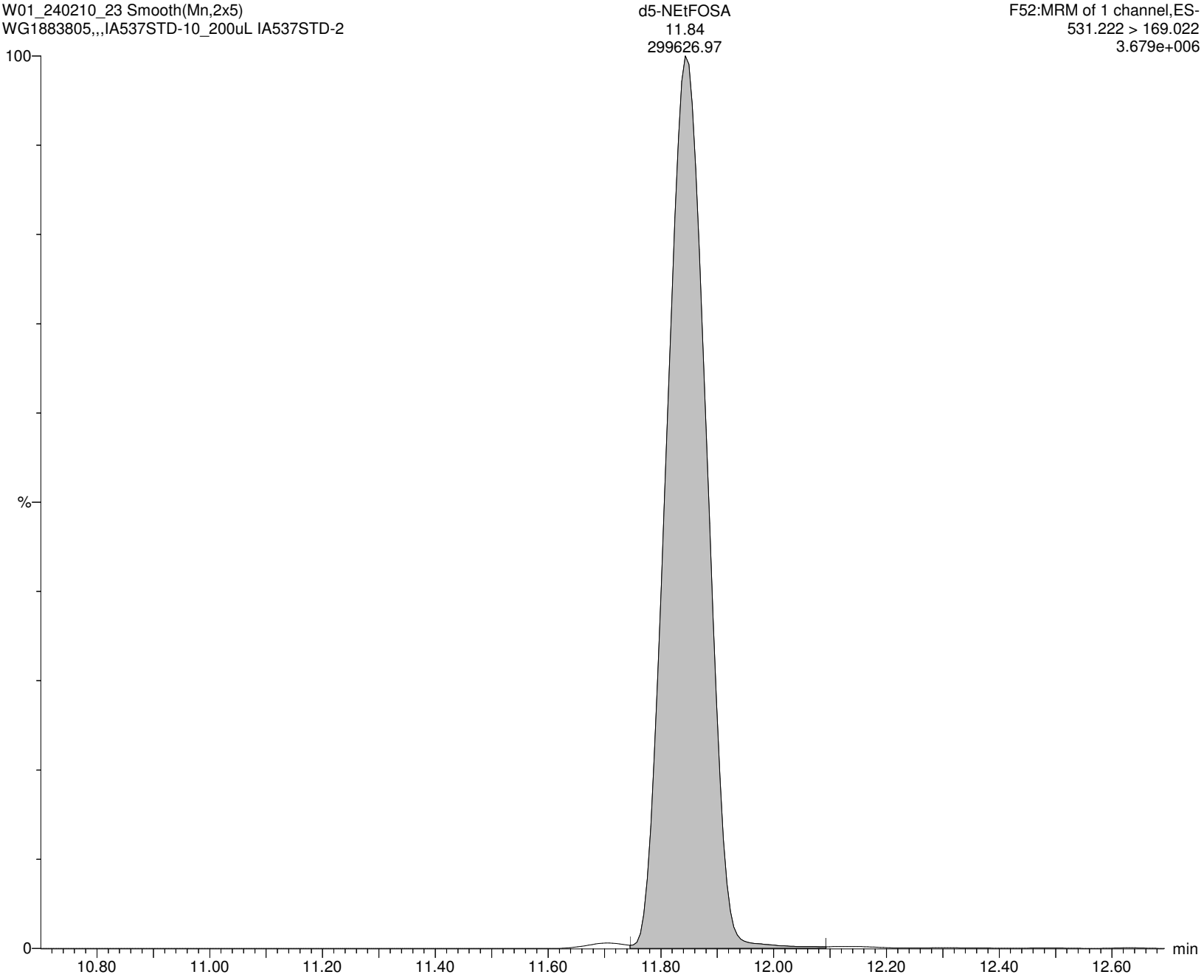

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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User: LCMS01:SG
Vial: 1:B,3
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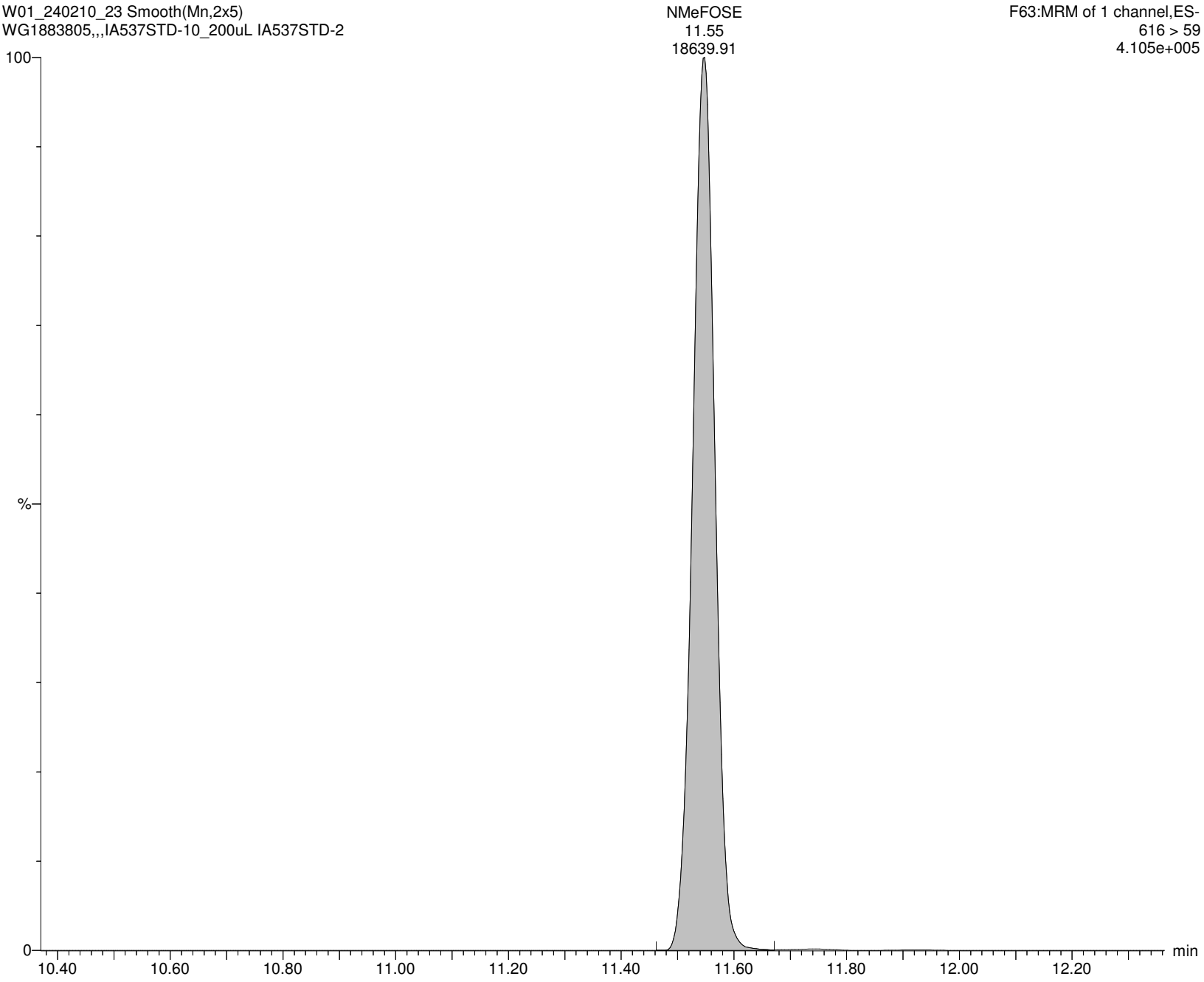

all concentration units in (ng/mL)

Alpha Analytical Inc.
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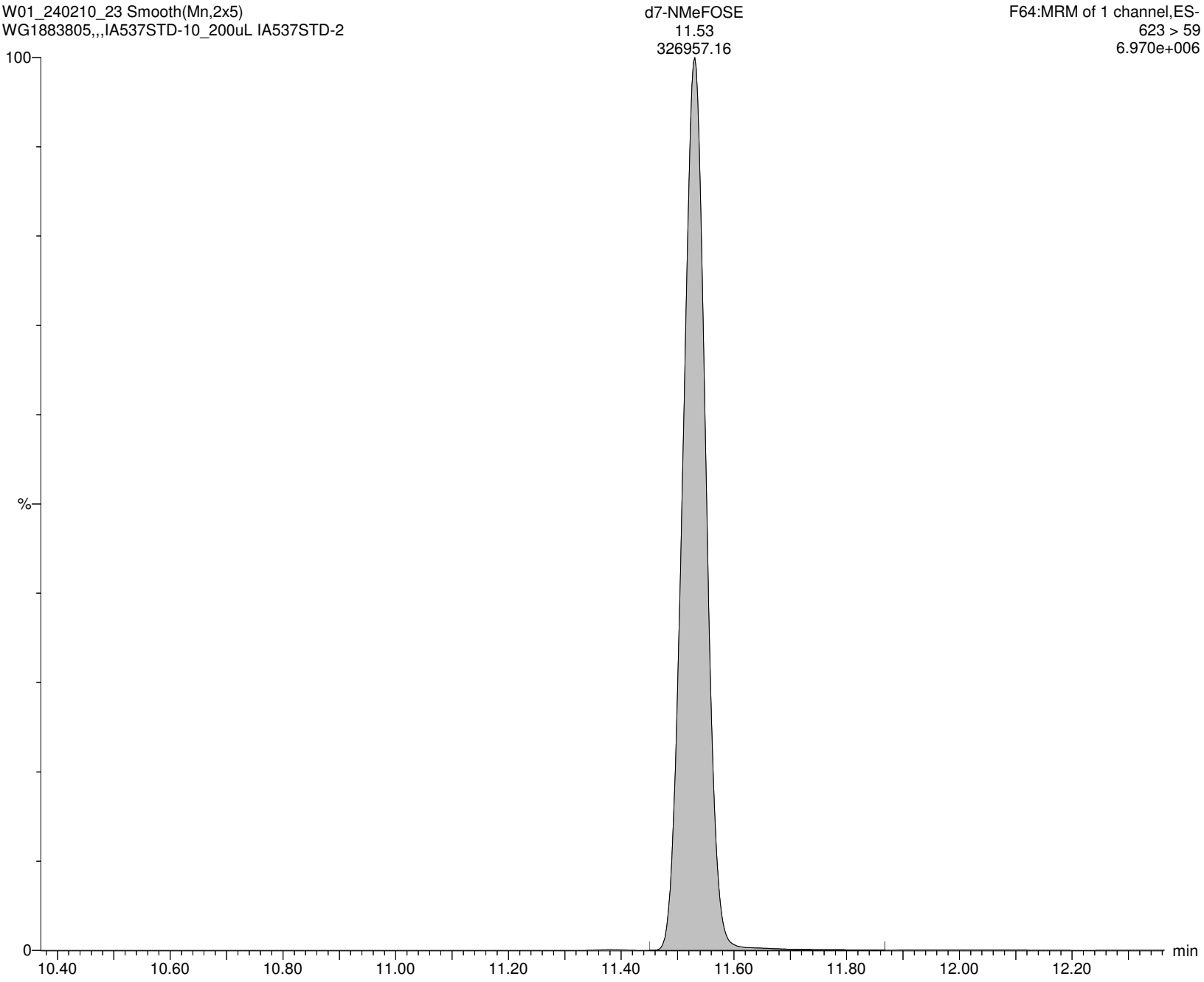
d7-NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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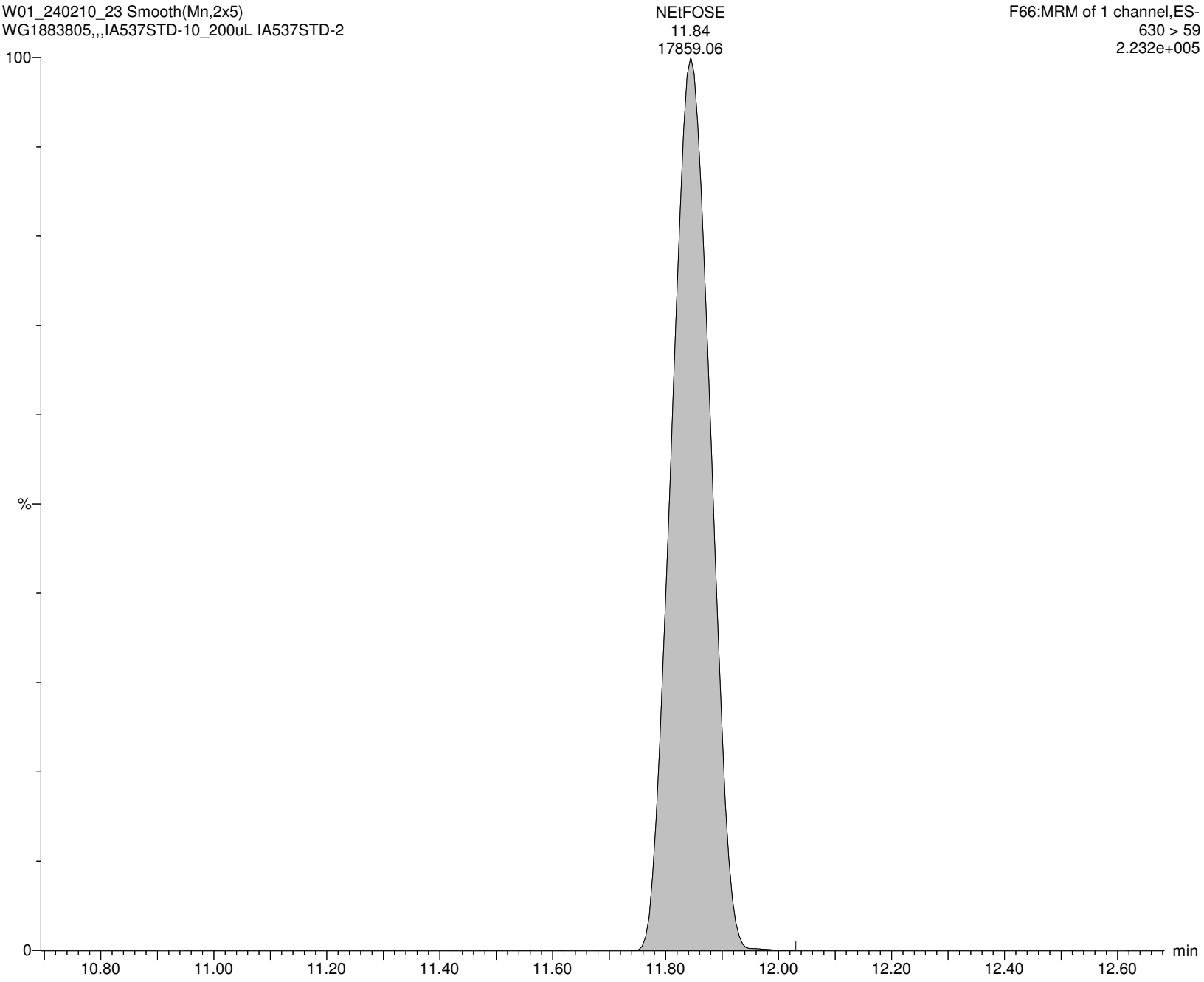
NEtFOSE



all concentration units in (ng/mL)

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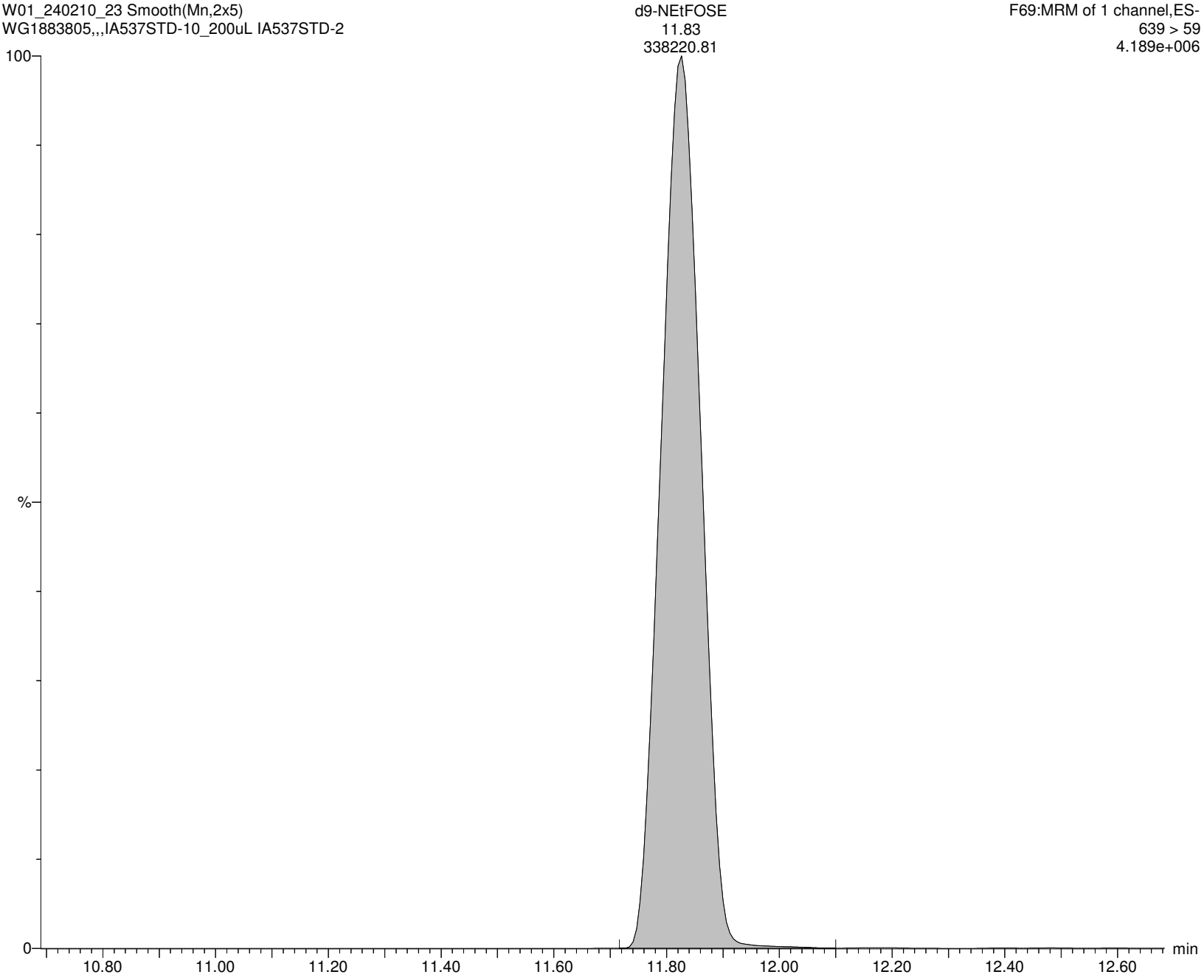
d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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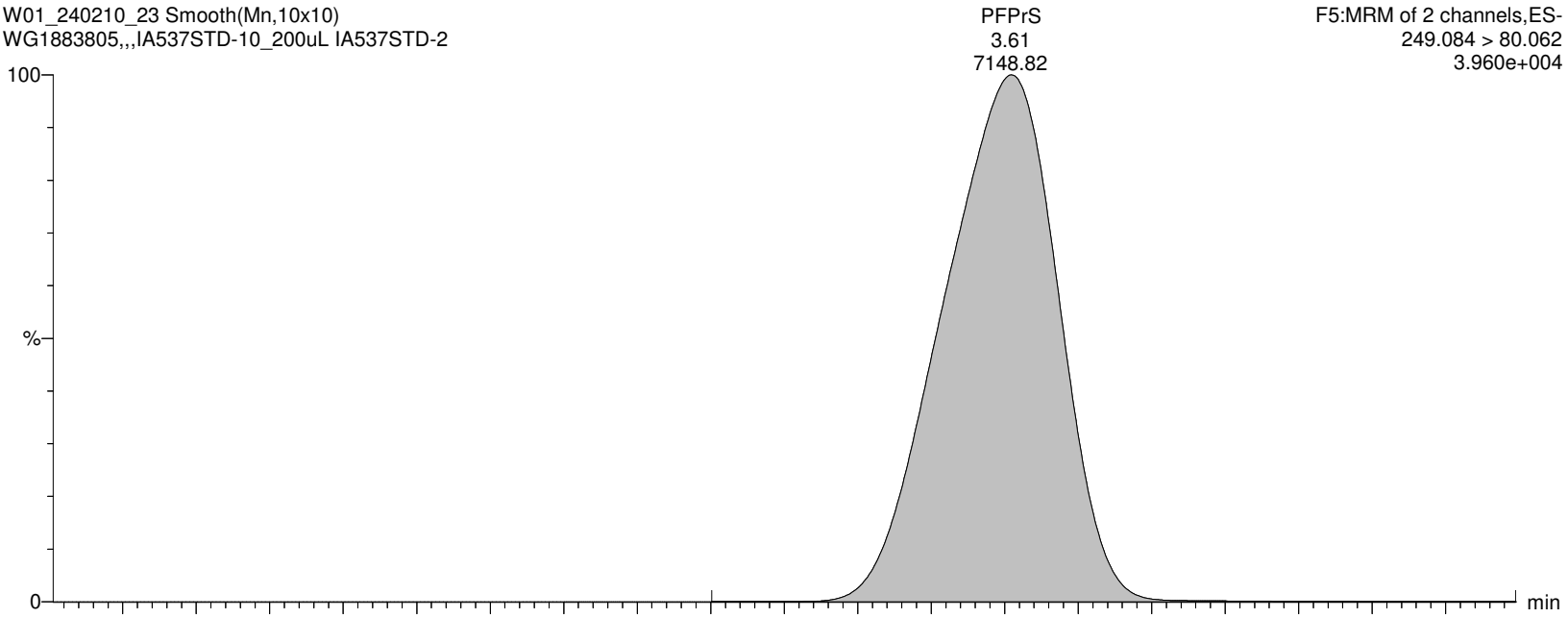
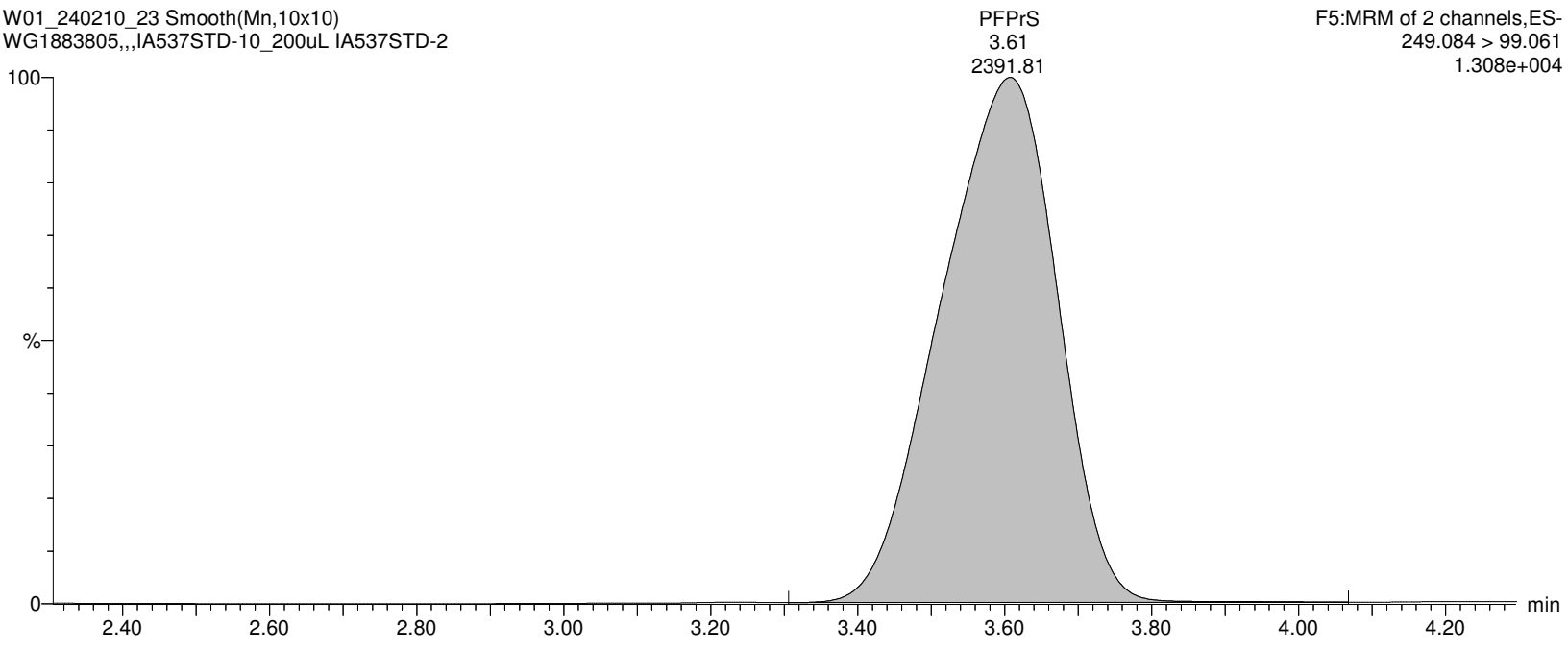
PFPrS





all concentration units in (ng/mL)

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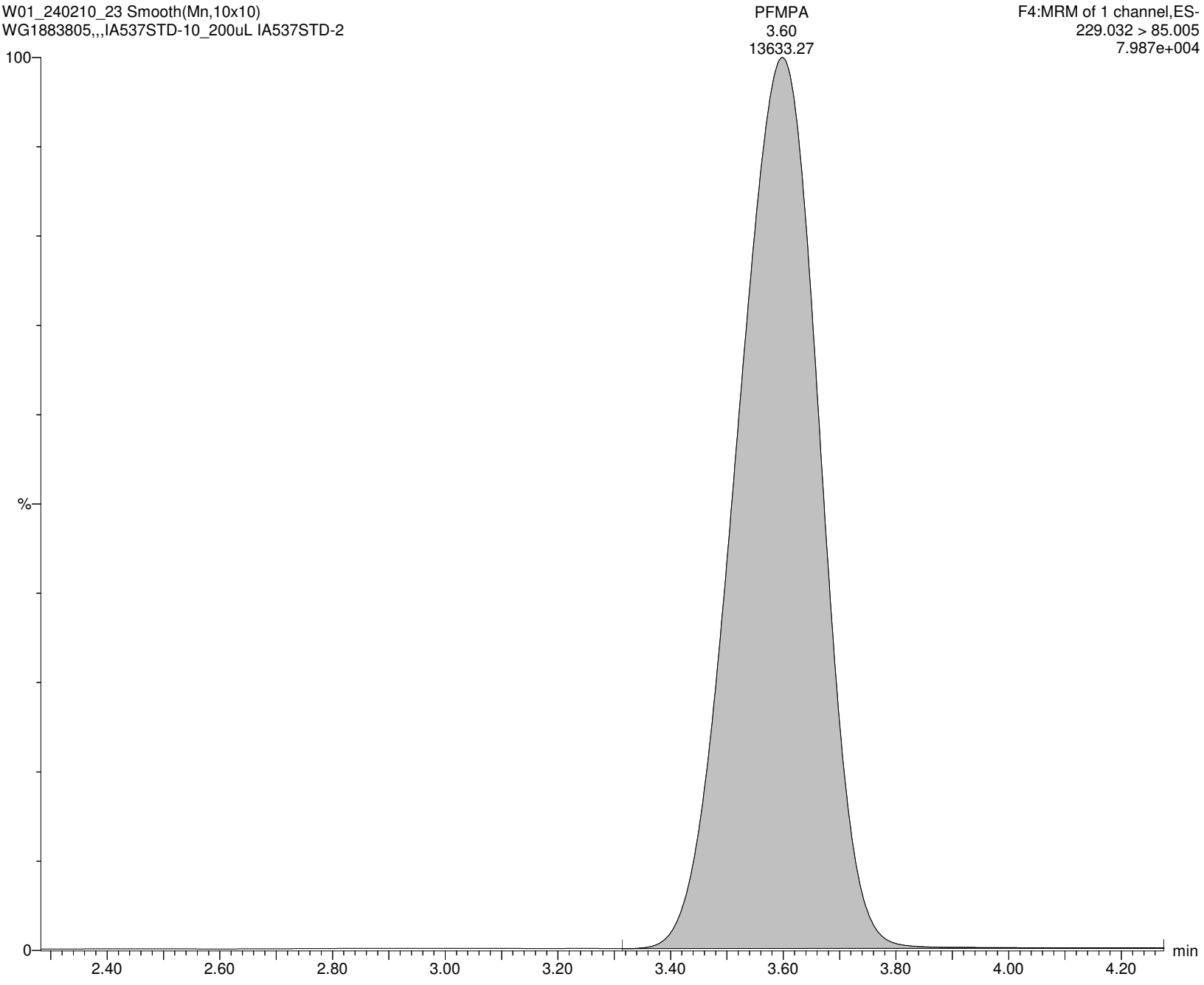

all concentration units in (ng/mL)

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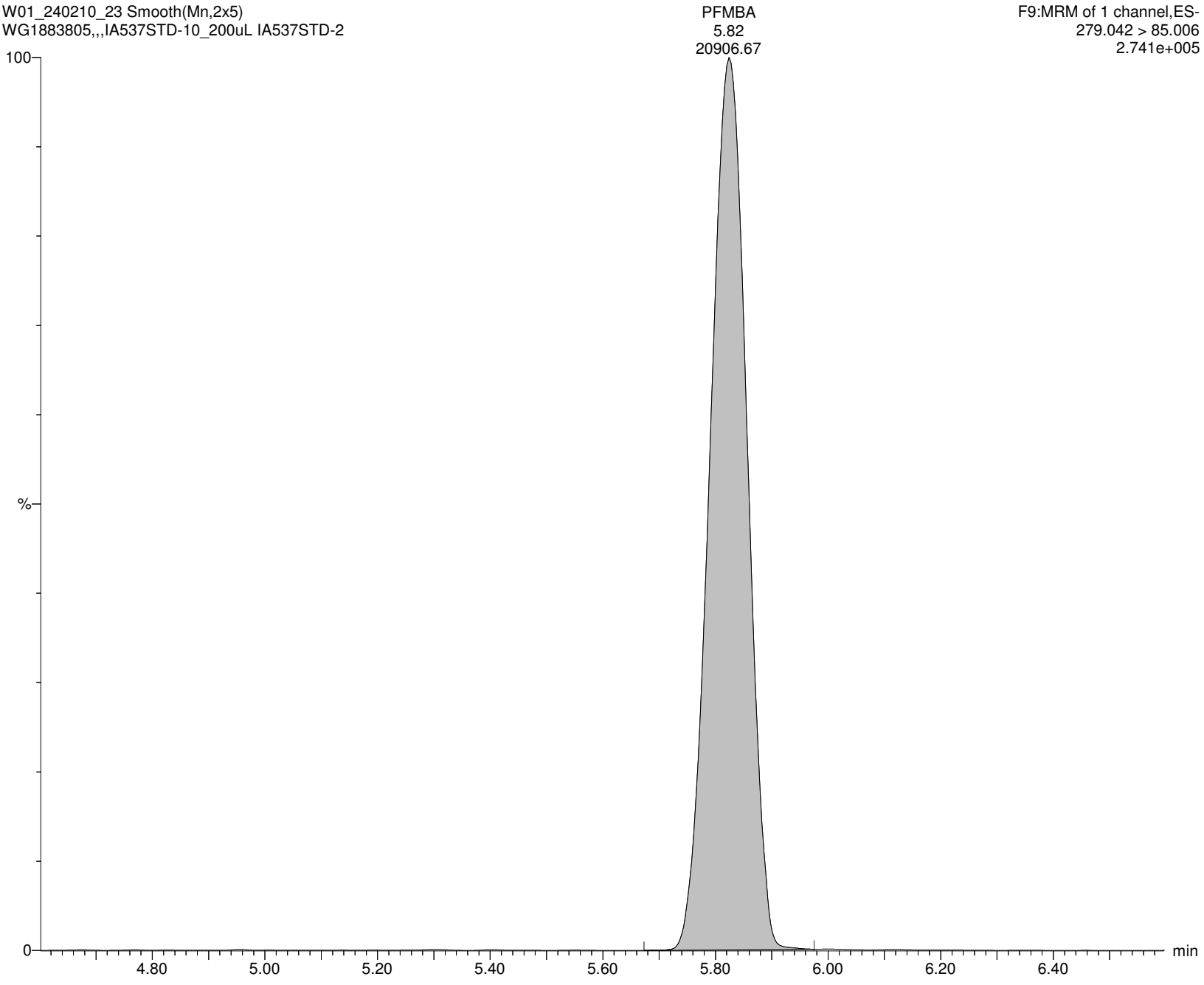

all concentration units in (ng/mL)

Alpha Analytical Inc.
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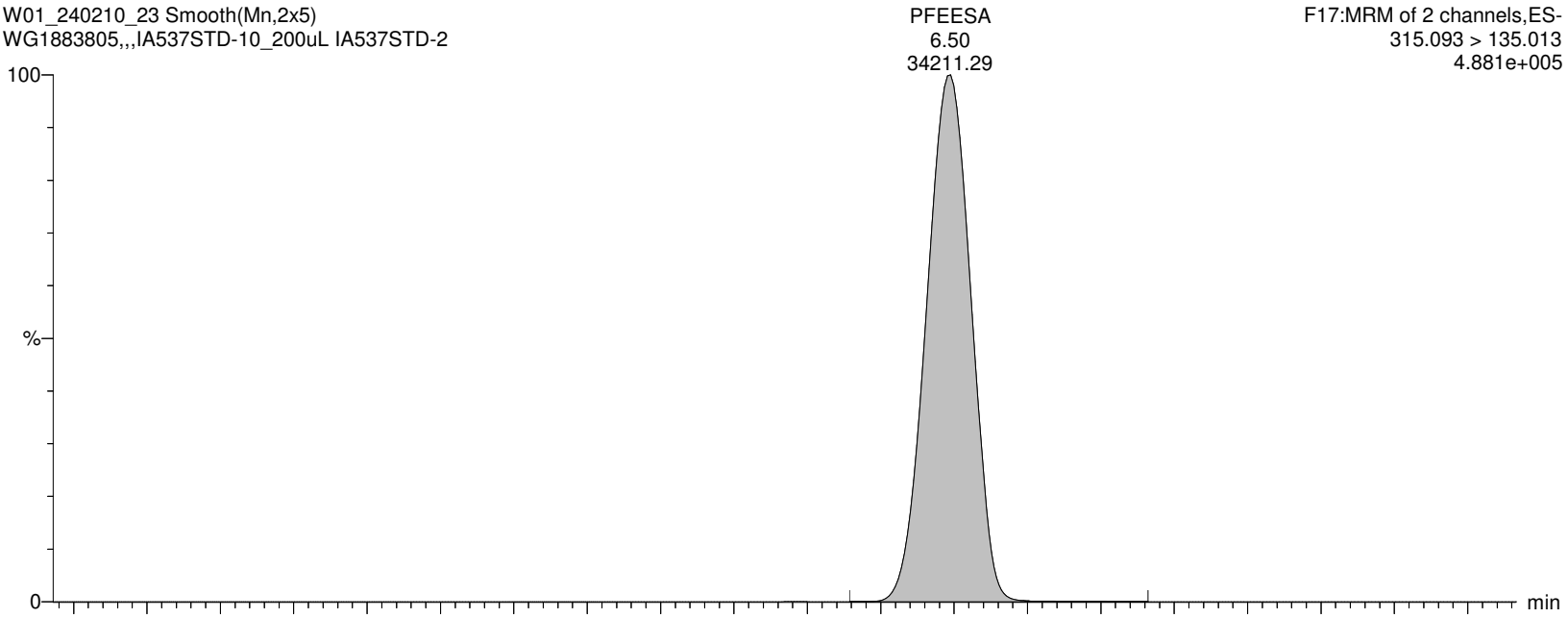

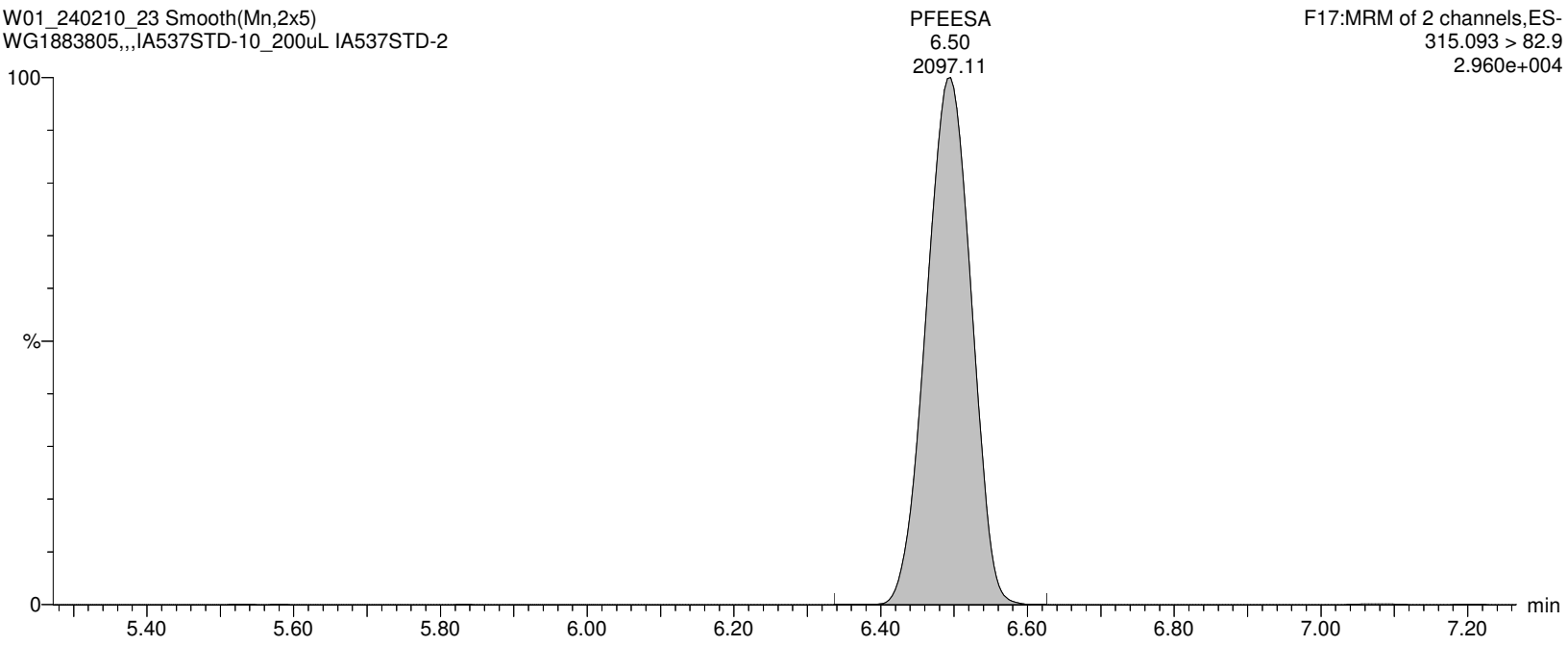

all concentration units in (ng/mL)

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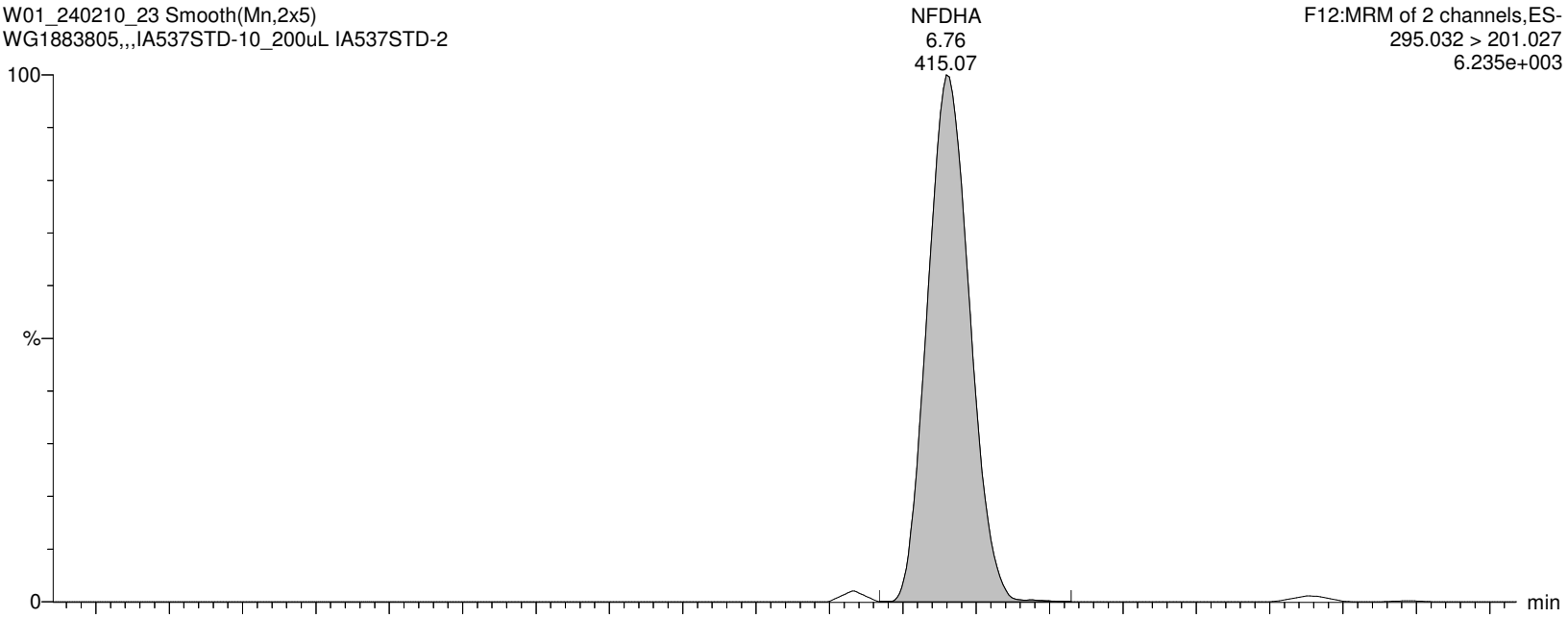

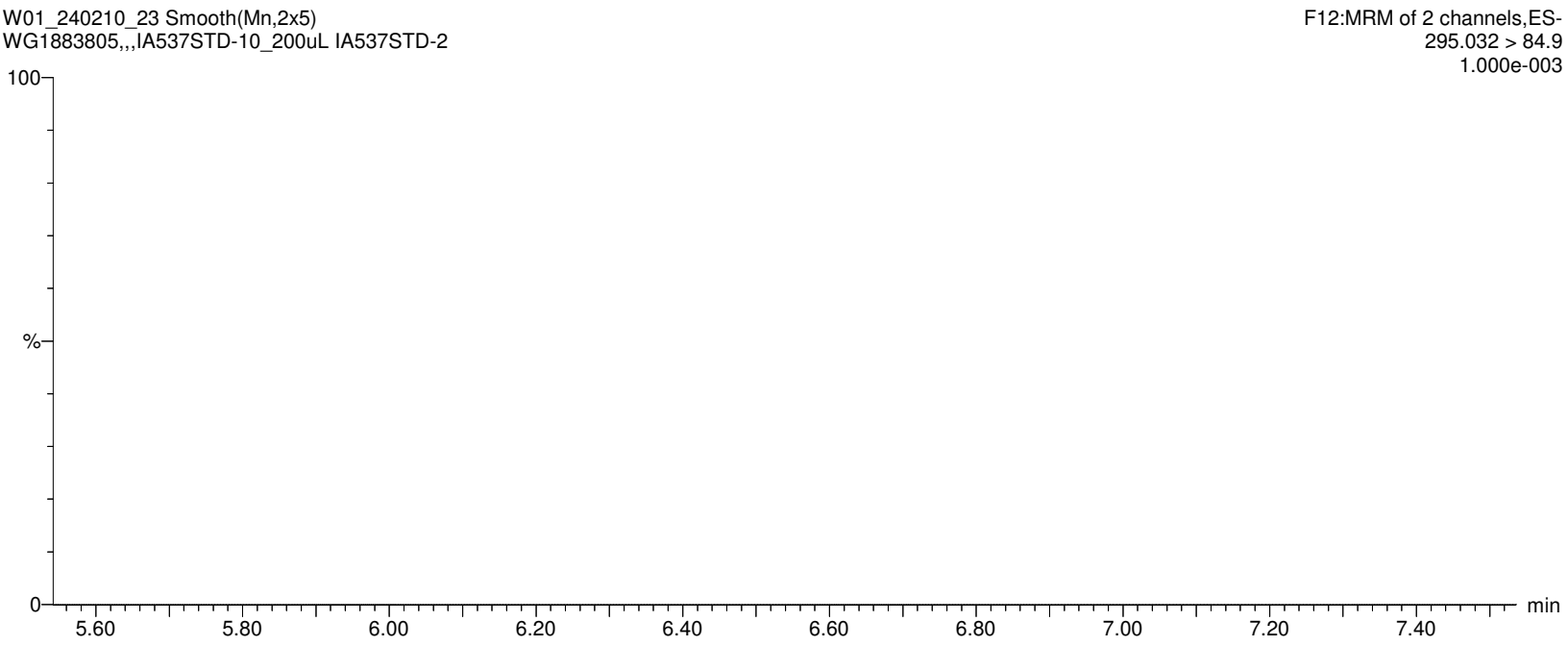

all concentration units in (ng/mL)

Alpha Analytical Inc.
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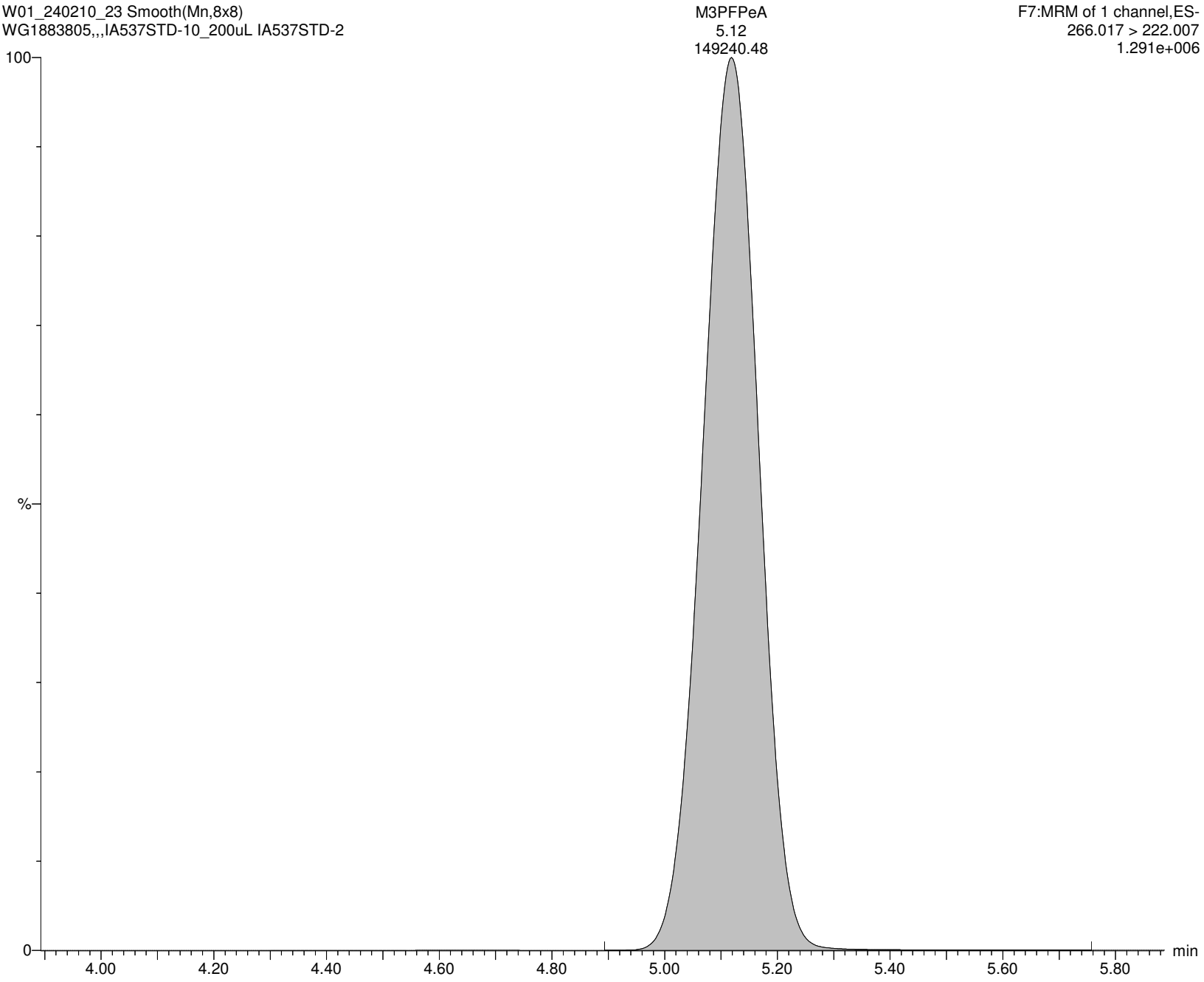

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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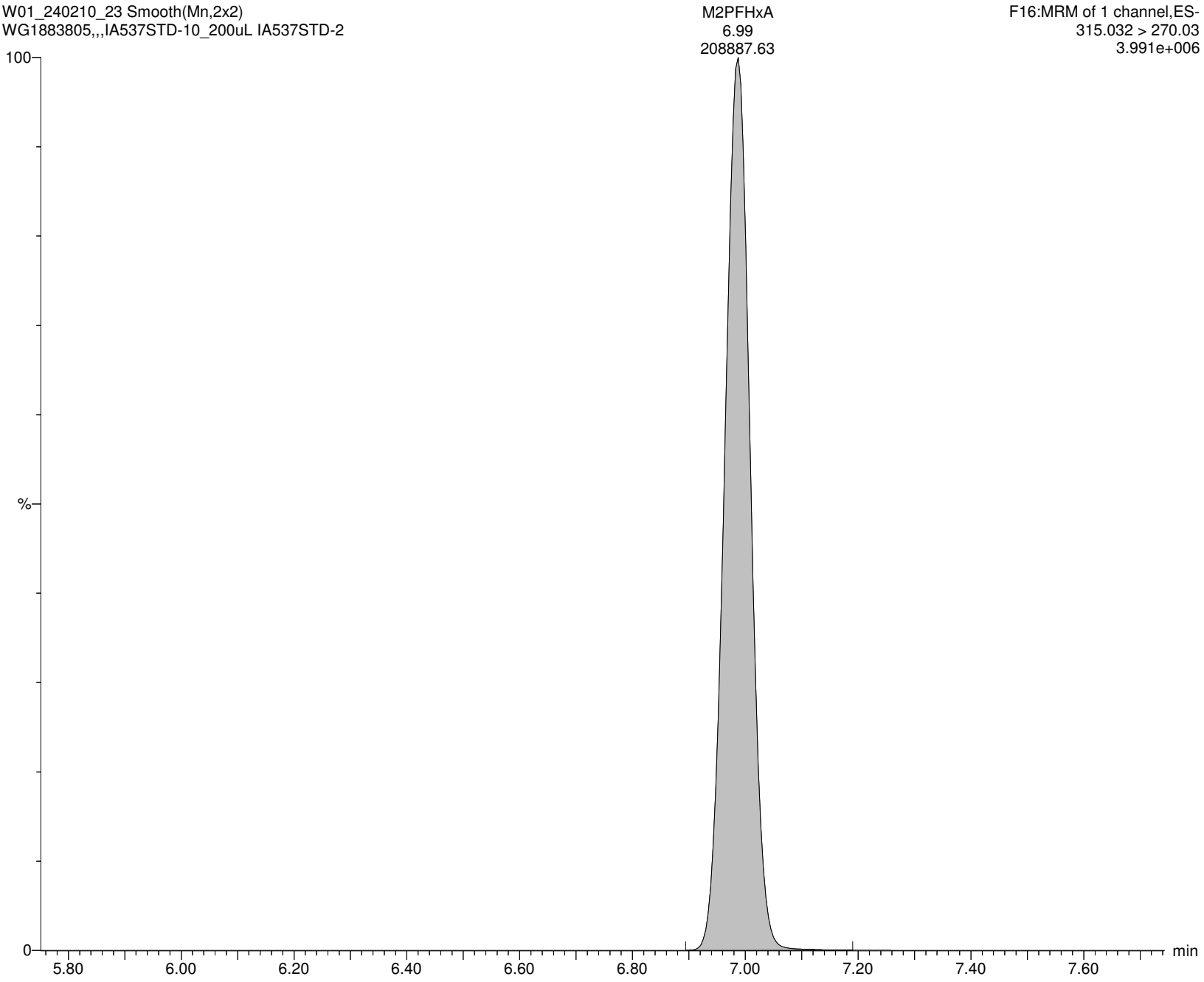

all concentration units in (ng/mL)

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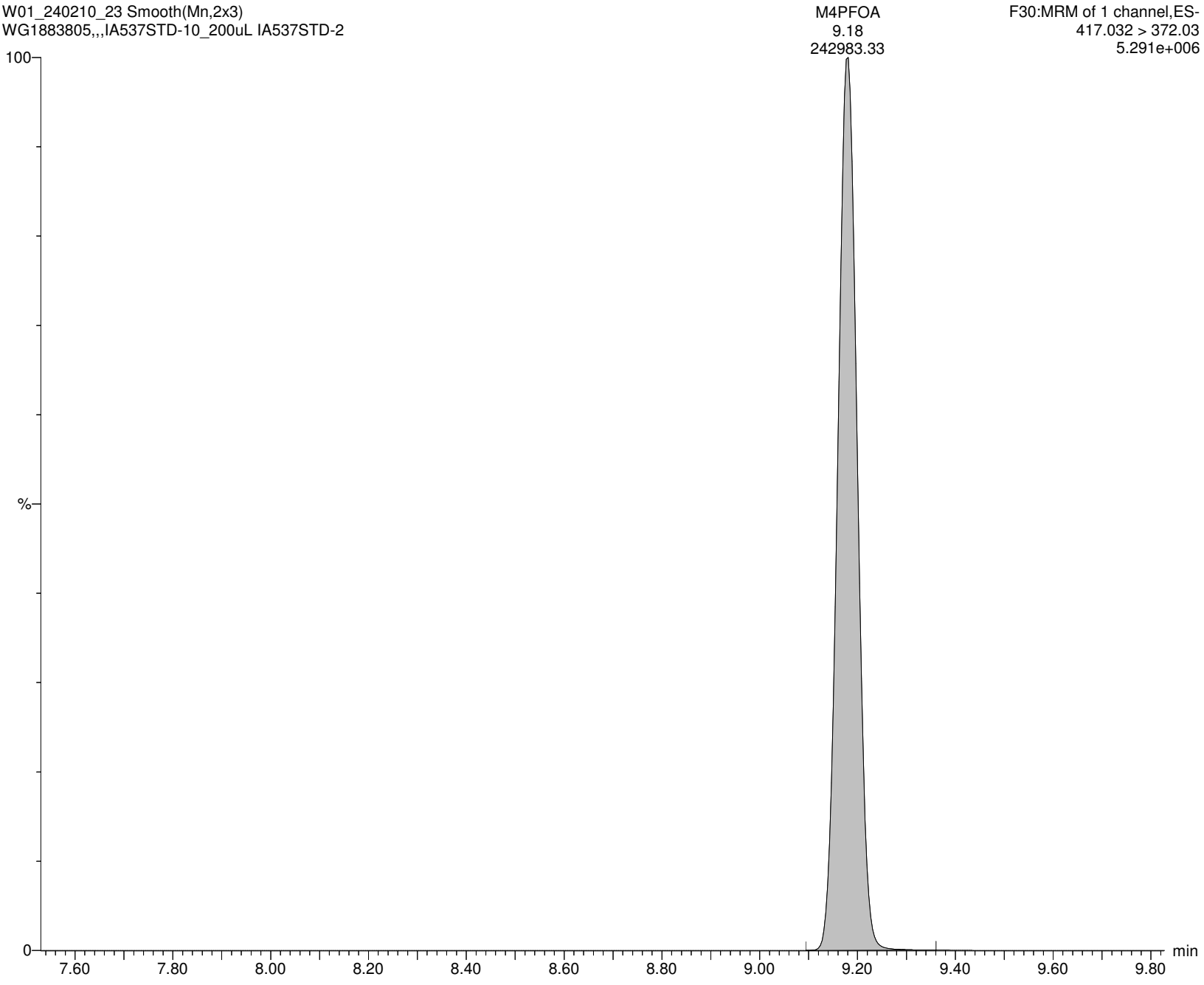

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

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Time: 17:03:10
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	39917		4.976		na	99.5
2	M3PFBA	INT STD	2.24	216.009 > 171.999	81076		10.572		na	105.7
3	MPFBA	INT STD	2.24	217.001 > 171.999	88565		9.601		na	96.0
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	47001		4.996		na	99.9
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	93059		9.661		na	96.6
6	PFBS	375-73-5	5.76	299.092 > 80.062	15999		4.411	1.83	NO	99.5
7	M3PFBS	INT STD	5.76	302.069 > 80.062	32735		8.852		na	95.0
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	4795		4.689	2.08	NO	100.1
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	9310		8.544		na	91.1
10	PFHxA	307-24-4	6.98	313.047 > 269.037	65473		5.141	14.05	NO	102.8
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	134111		9.507		na	95.1
12	PFPeS	2706-91-4	7.28	349.1 > 80.062	16863		4.433	1.51	NO	94.2
13	PFHpA	375-85-9	8.22	363.055 > 319.045	75242		5.118	4.40	NO	102.4
14	M4PFHpA	INT STD	8.22	367.025 > 322.022	146304		9.748		na	97.5
15	br-PFHxS	355-46-4	8.15	399.107 > 80.062	2697	M5,M7	0.738	1.71	NO	85.3
16	L-PFHxS	355-46-4	8.38	399.107 > 80.062	13166		3.445	1.51	NO	93.0
17	PFHxS	355-46-4		399.107 > 80.062	15863		4.183		na	
18	M3PFHxS	INT STD	8.38	402.084 > 80.062	33301		9.362		na	98.8
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.17	413.063 > 369.053	82057		5.147	11.63	NO	102.9
21	PFOA	335-67-1		413.063 > 369.053	82057		5.147		na	
22	M8PFOA	INT STD	9.17	421.002 > 376.	155078		9.509		na	95.1
23	M2PFOA	INT STD	9.17	415.048 > 370.045	161129		10.854		na	108.5
24	6:2FTS	27619-97-2	9.13	427.161 > 407.155	4410		4.797	3.44	NO	100.9
25	M2-6:2FTS	INT STD	9.13	429.146 > 409.14	10257		8.192		na	86.1
26	PFHpS	375-92-8	9.26	449.115 > 80.062	18152		5.044	1.55	NO	105.8
27	PFNA	375-95-1	9.94	463.071 > 419.061	84028		4.931	7.24	NO	98.6
28	M9PFNA	INT STD	9.94	472.002 > 427.	169128		9.982		na	99.8
29	br-PFOS	1763-23-1	9.80	499.123 > 80.062	4342	M5,M7	0.873	3.23	NO	89.1
30	L-PFOS	1763-23-1	9.99	499.123 > 80.062	14619		3.352	1.59	NO	91.6
31	PFOS	1763-23-1		499.123 > 80.062	18960		4.225		na	
32	M4PFOS	INT STD	9.99	503.093 > 80.062	38934		10.513		na	109.5
33	M8PFOS	INT STD	9.99	507.062 > 80.062	38893		9.363		na	97.6
34	PFDA	335-76-2	10.59	513.078 > 469.069	69713		4.991	5.27	NO	99.8
35	M2PFDA	INT STD	10.59	515.063 > 470.061	152003		11.330		na	113.3
36	M6PFDA	INT STD	10.59	519.033 > 474.03	143507		9.470		na	94.7
37	8:2FTS	39108-34-4	10.58	527.177 > 507.171	4528		4.641	2.89	NO	96.7
38	M2-8:2FTS	INT STD	10.58	529.162 > 509.155	11369		8.588		na	89.5
39	PFNS	68259-12-1	10.62	549.131 > 80.062	18268		4.223	1.84	NO	87.8

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User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.22 > 419.061	20724		8.903		na	89.0
41	br-NMeFOSAA	2355-31-9	10.80	570.202 > 419.061	666	M5,M7	1.090	1.08	NO	90.8
42	L-NMeFOSAA	2355-31-9	10.97	570.202 > 419.061	5293		3.715	2.27	NO	97.8
43	NMeFOSAA	2355-31-9		570.202 > 419.061	5960		4.805		na	
44	PFUnA	2058-94-8	11.15	563.086 > 519.076	80698		4.717	7.10	NO	94.3
45	M7-PFUDA	INT STD	11.15	570.033 > 525.031	164944		9.990		na	99.9
46	PFDS	335-77-3	11.16	598.926 > 80.062	18580		4.764	1.84	NO	98.7
47	FOSA	754-91-6	10.93	498.146 > 78.07	51914		4.649	41.08	NO	93.0
48	M8FOSA	INT STD	10.93	506.077 > 78.07	101028		9.066		na	90.7
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	18721		8.534		na	85.3
50	br-NEtFOSAA	2991-50-6	11.12	584.229 > 419.061	664	M5,M7	0.938	0.71	NO	83.4
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	5340		3.546	1.36	NO	91.5
52	NEtFOSAA	2991-50-6		584.229 > 419.061	6004		4.485		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	88924		4.894	7.52	NO	97.9
54	MPFDOA	INT STD	11.65	615.079 > 570.077	167881		9.059		na	90.6
55	PFTrDA	72629-94-8	12.08	663.102 > 619.092	70972		5.699	9.06	NO	114.0
56	PFTA	376-06-7	12.45	713.11 > 669.1	85667		4.852	18.27	NO	97.0
57	M2PFTEDA	INT STD	12.45	715.094 > 670.092	158917		9.509		na	95.1
58	M3HFPO-DA	INT STD	7.39	287.02 > 169.022	201042		219.638		na	109.8
59	HFPO-DA	13252-13-6	7.39	285.035 > 169.022	30653		41.126	41.53	NO	82.3
60	ADONA	958445-44-8	8.40	377.06 > 251.028	89304		5.151	96.41	NO	109.0
61	PFHxDA		12.84	813.122 > 769.116	140120		5.254	53.50	NO	105.1
62	PFODA		13.06	913.411 > 869.131	37387		5.003	87.33	NO	100.1
63	M2PFHxDA		12.84	815.102 > 770.108	243905		9.422		na	94.2
64	PFDoS		12.06	699.154 > 80.062	17604		4.578	1.45	NO	94.6
65	M2D4-10:2FTS		11.65	633.201 > 612.189	10898		19.123		na	97.6
66	10:2FTS		11.66	627.192 > 607.186	4244	M4,M7	4.985	3.10	NO	103.2
67	9CL-PF3ONS		10.35	531.096 > 351.07	40945		4.033	2.34	NO	86.5
68	11CL-PFOUdS		11.44	631.096 > 451.076	39963		4.090	2.92	NO	86.7
69	NMeFOSA		11.56	512.163 > 169.022	79494		25.770	1.57	NO	103.1
70	d3-NMeFOSA		11.55	515.183 > 169.022	297869		94.725		na	94.7
71	NEtFOSA		11.87	526.192 > 169.022	83397		26.595	10.12	NO	106.4
72	d5-NEtFOSA		11.86	531.222 > 169.022	301551		95.092		na	95.1
73	NMeFOSE		11.56	616 > 59	45090		11.412		na	91.3
74	d7-NMeFOSE		11.55	623 > 59	320719		92.926		na	92.9
75	NEtFOSE		11.86	630 > 59	41807		11.977		na	95.8
76	d9-NEtFOSE		11.84	639 > 59	353197		93.995		na	94.0
77	PFPrS		3.61	249.084 > 80.062	17203		4.208	3.03	NO	91.5
78	PFMPA		3.60	229.032 > 85.005	32119		4.799		na	96.0
79	PFMBA		5.83	279.042 > 85.006	48877		5.320		na	106.4
80	PFEESA		6.49	315.093 > 135.013	82225		3.994	16.09	NO	89.7
81	NFDHA		6.76	295.032 > 201.027	747	M7	3.773	693.33	YES	75.5
82	M3PFPeA		5.12	266.017 > 222.007	148445		10.709		na	107.1

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User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.98	315.032 > 270.03	204319		10.388		na	103.9
84	M4PFOA		9.17	417.032 > 372.03	245340		10.834		na	108.3

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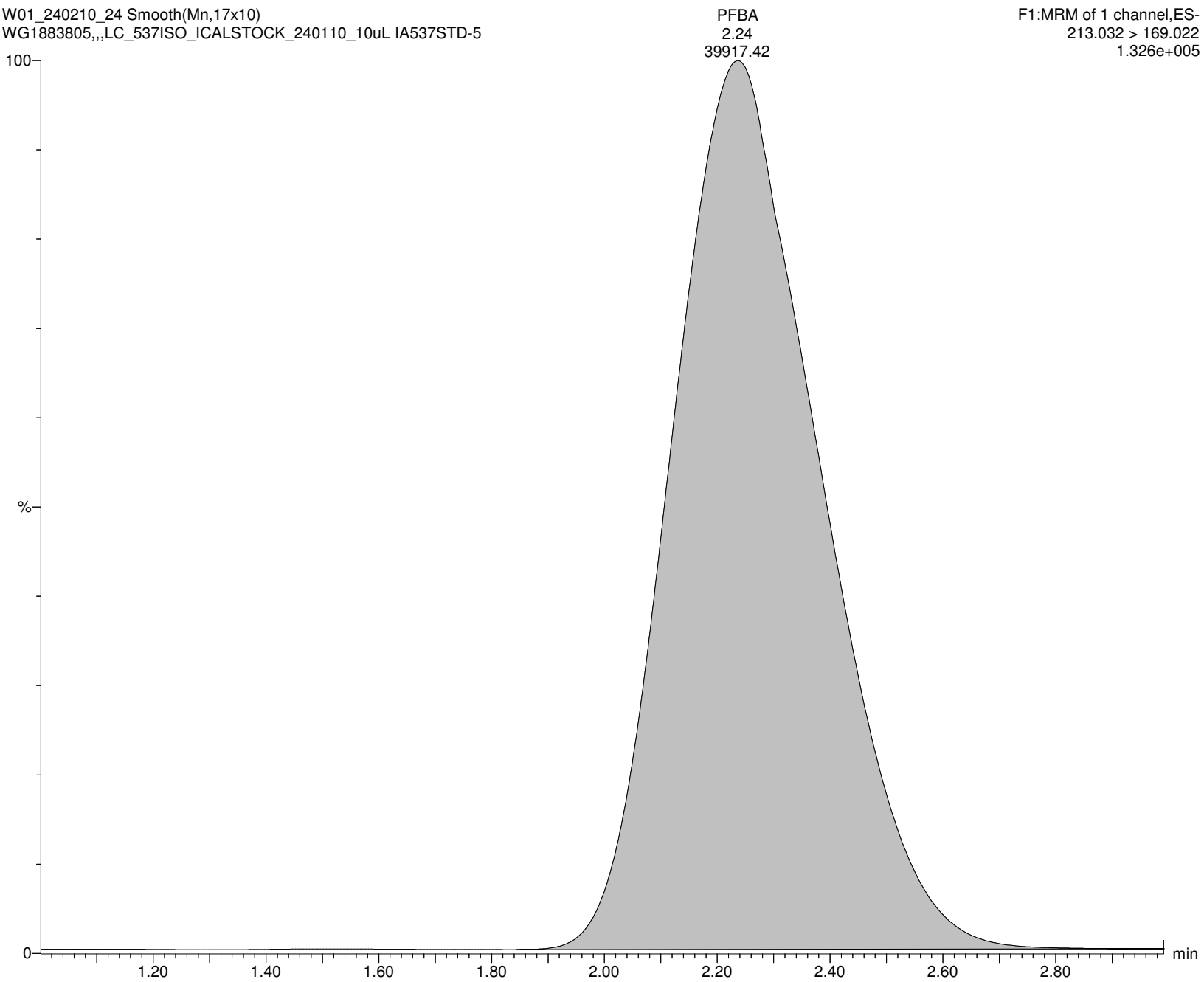

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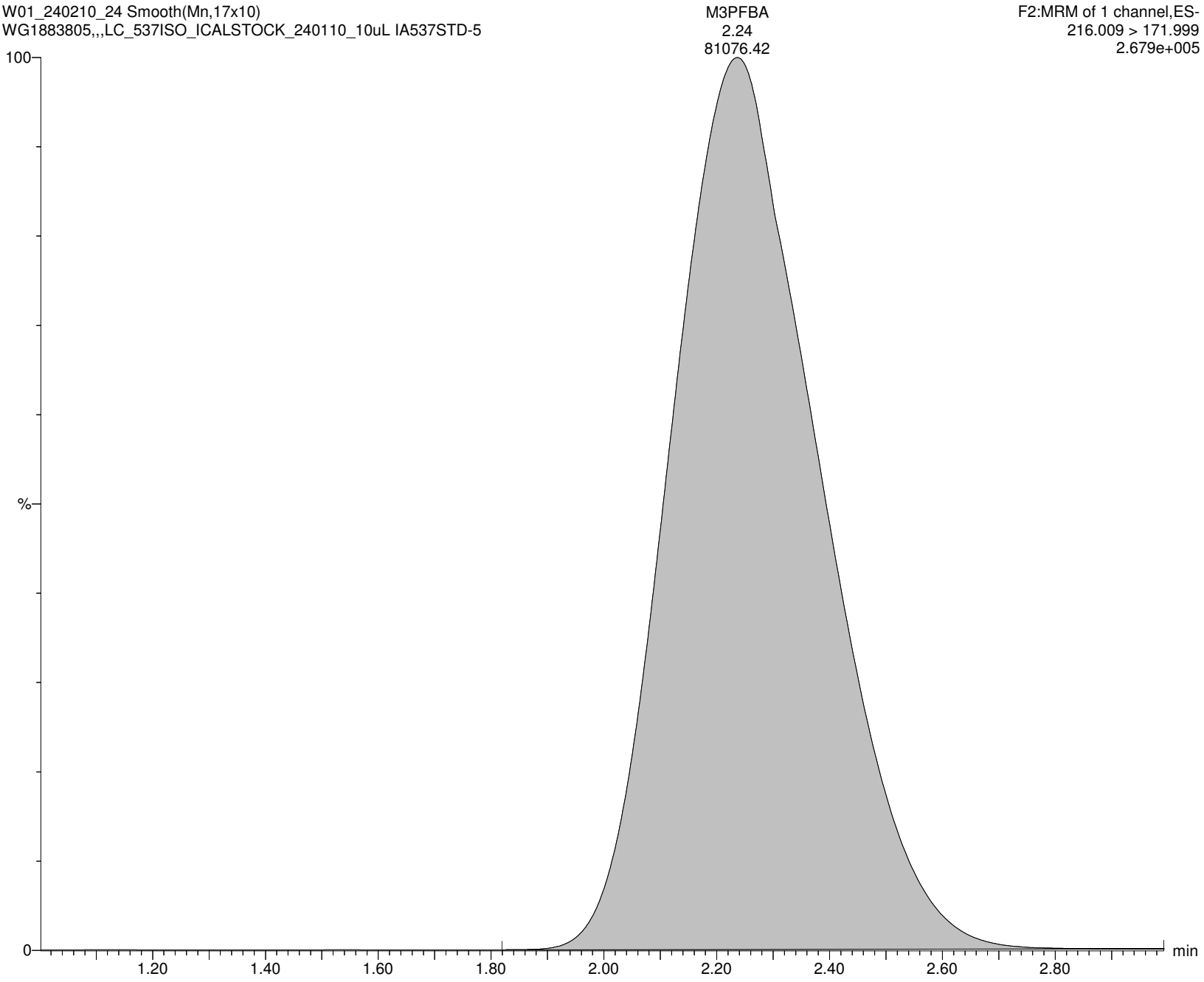

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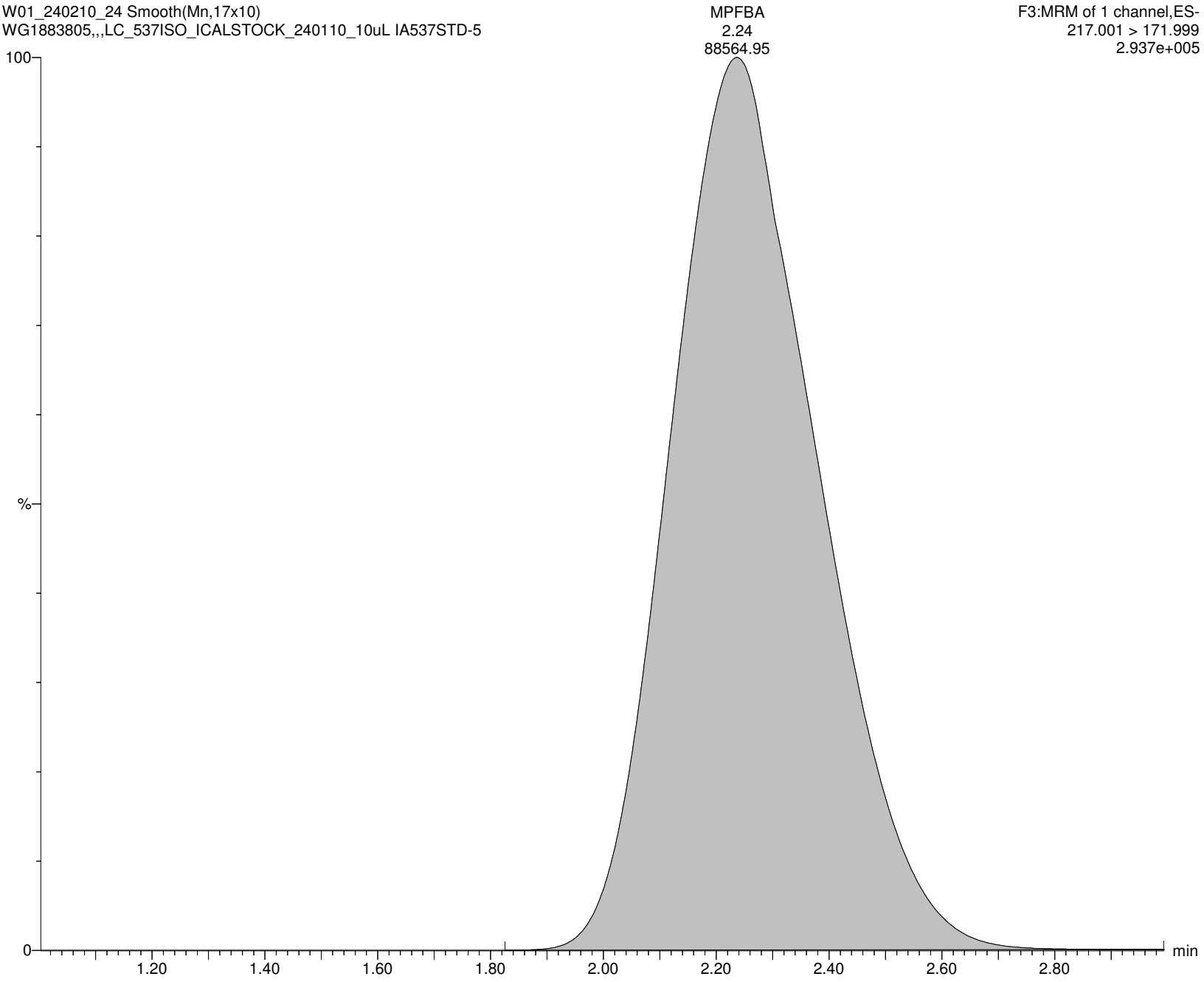

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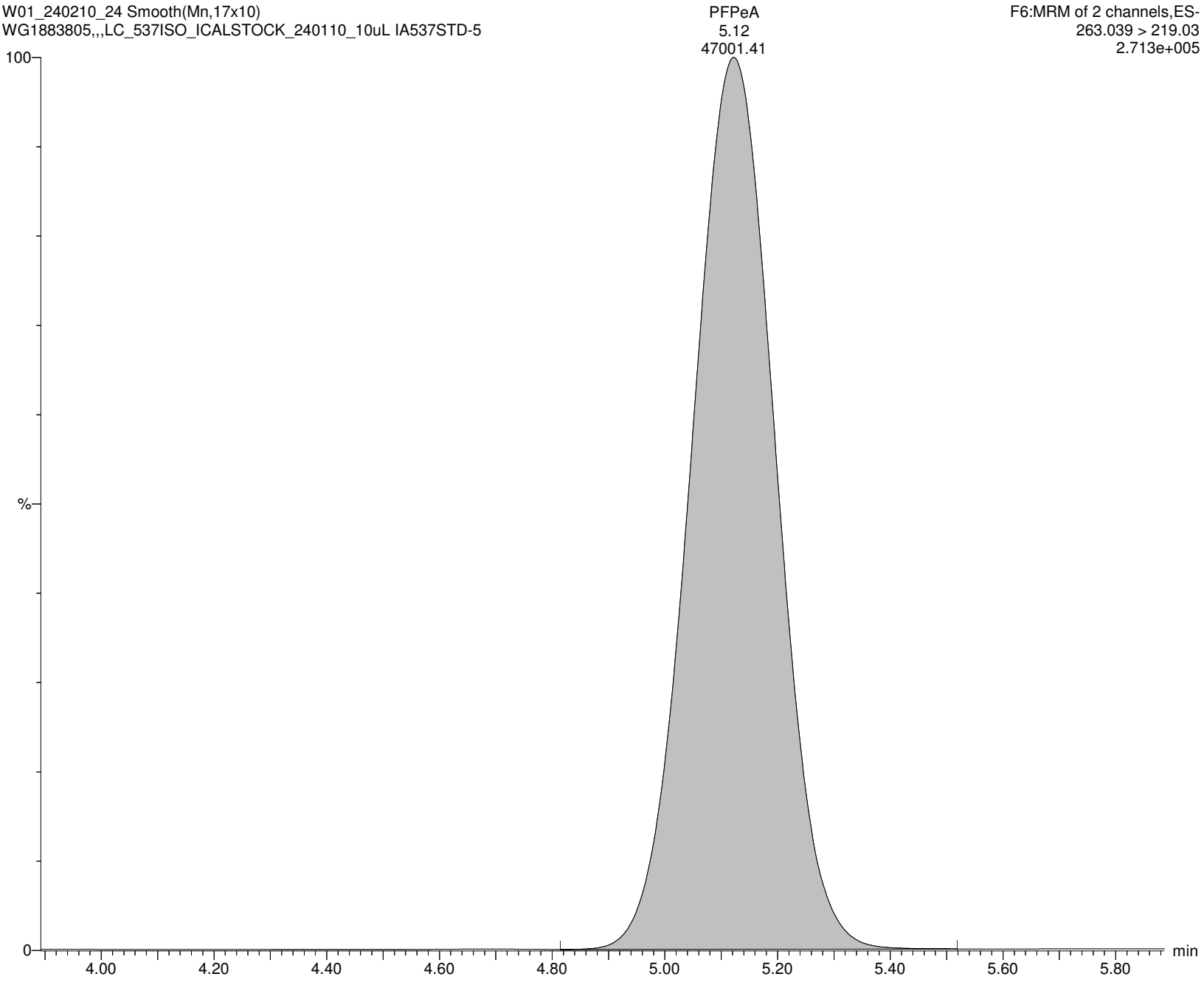

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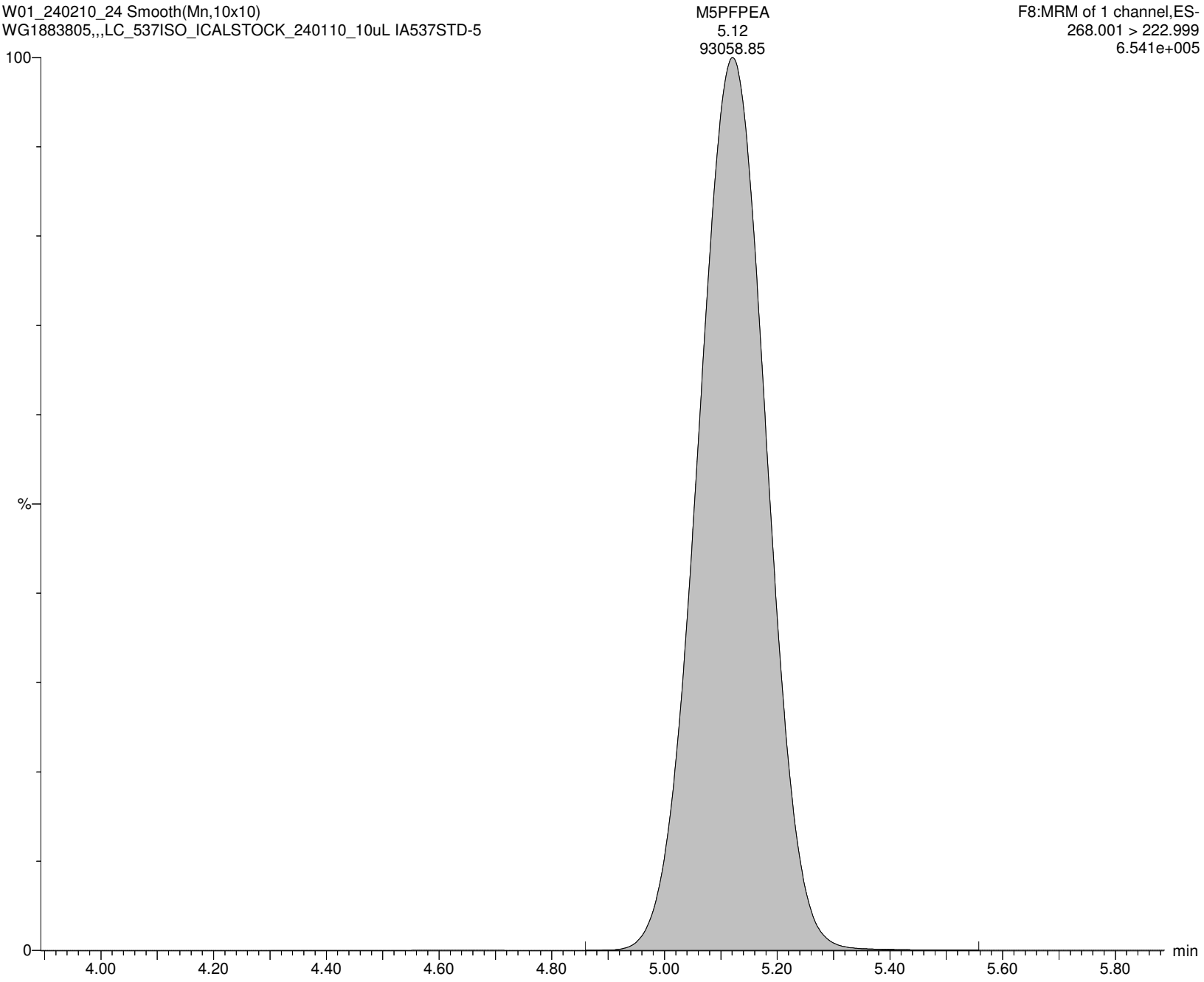

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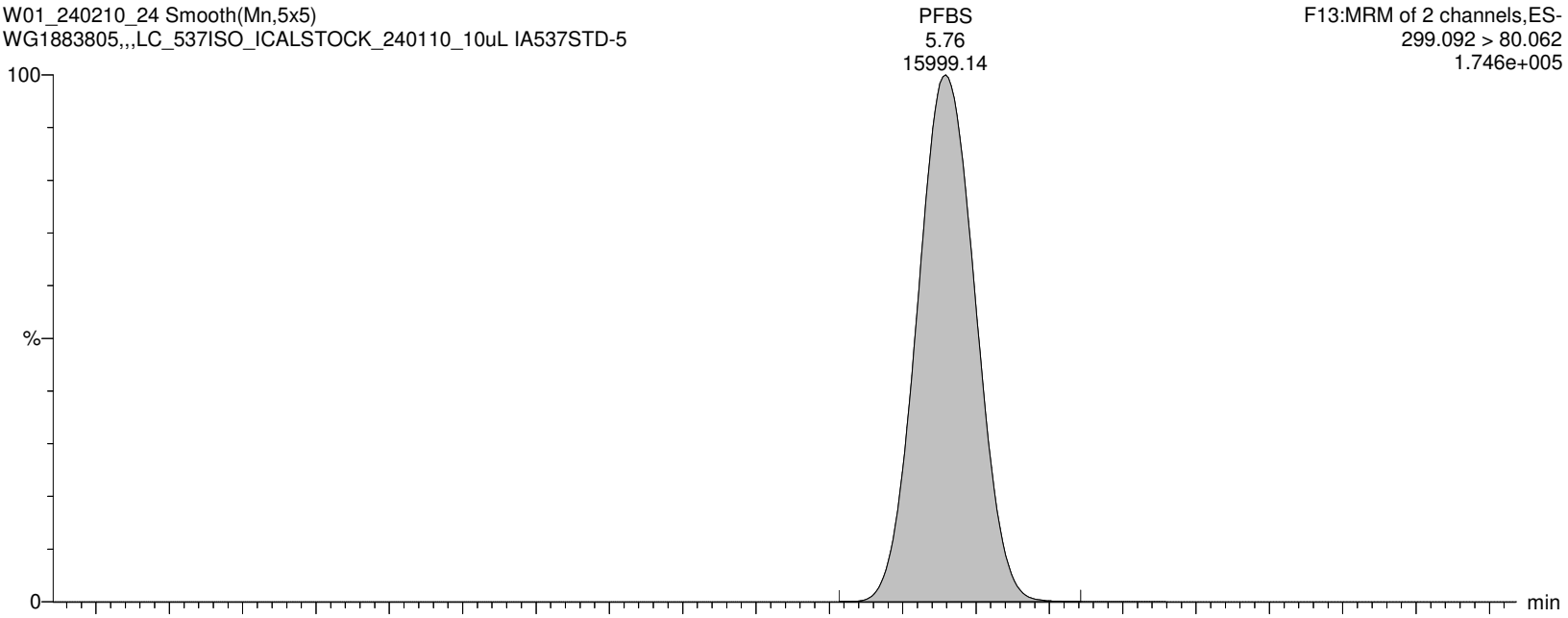

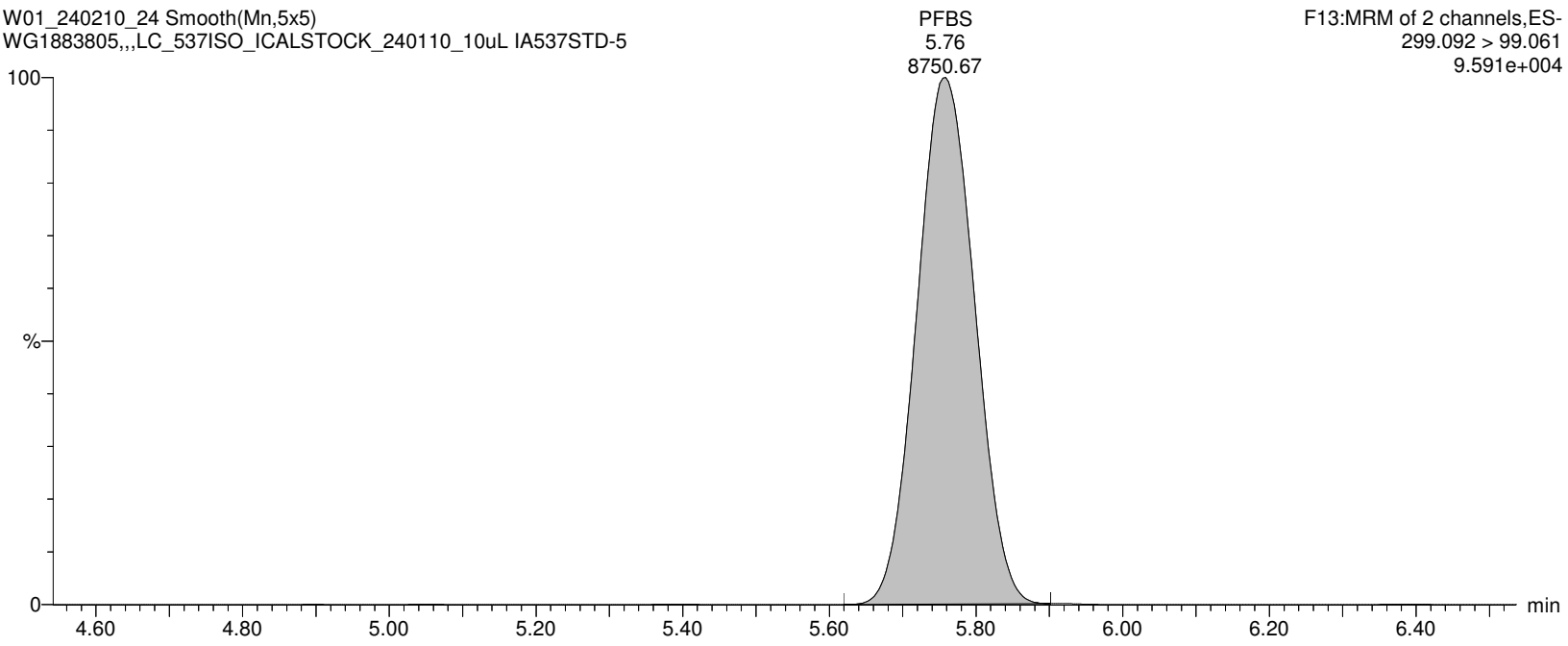

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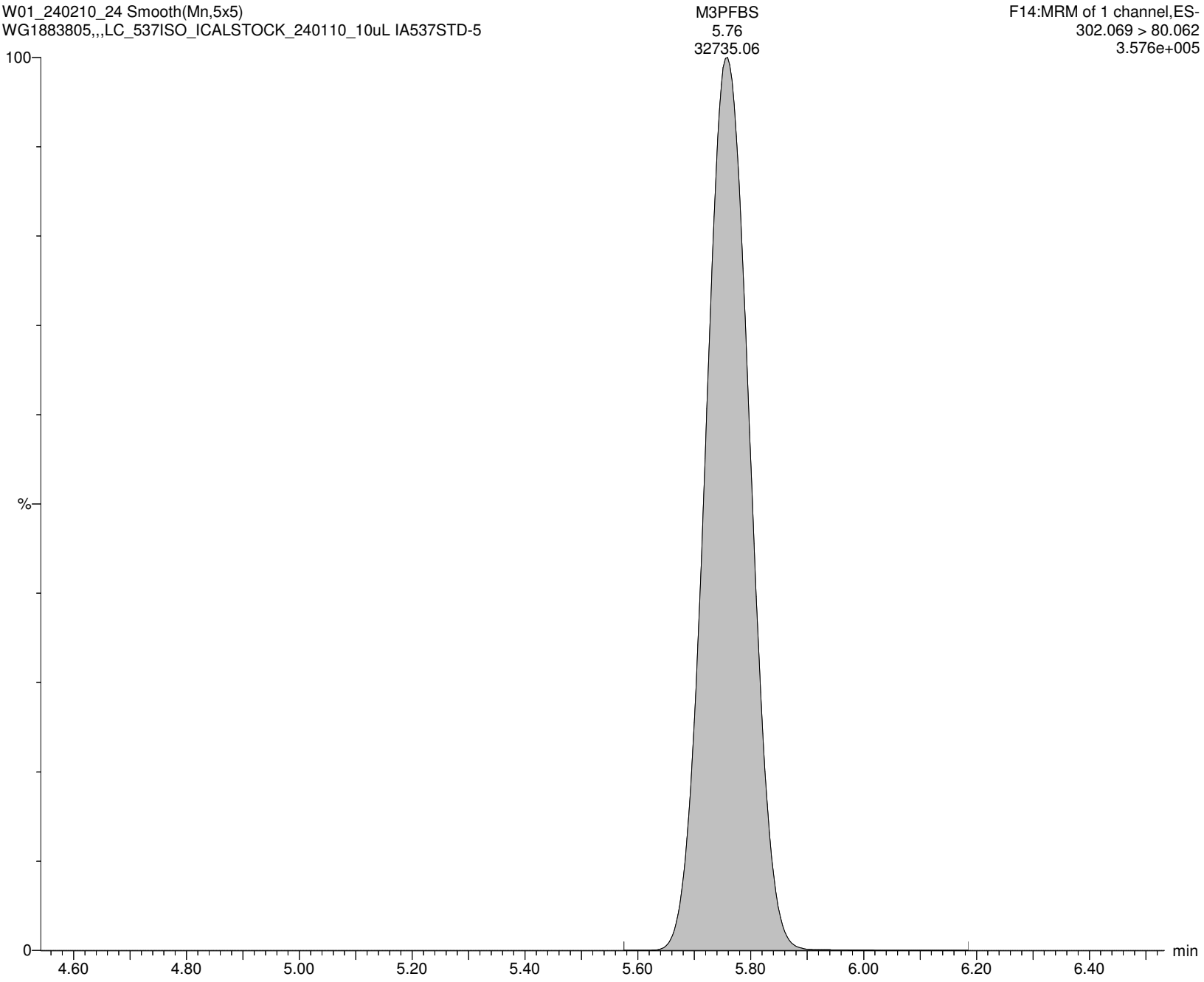
M3PFBS



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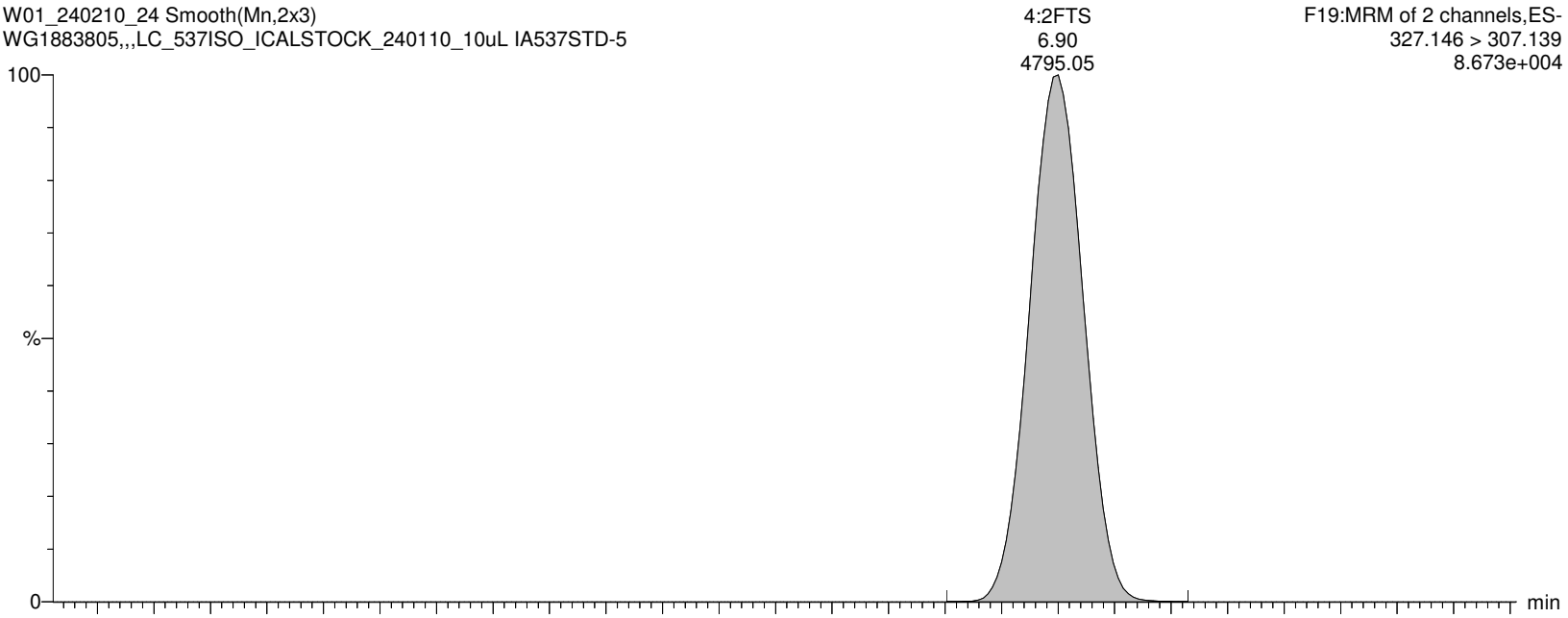

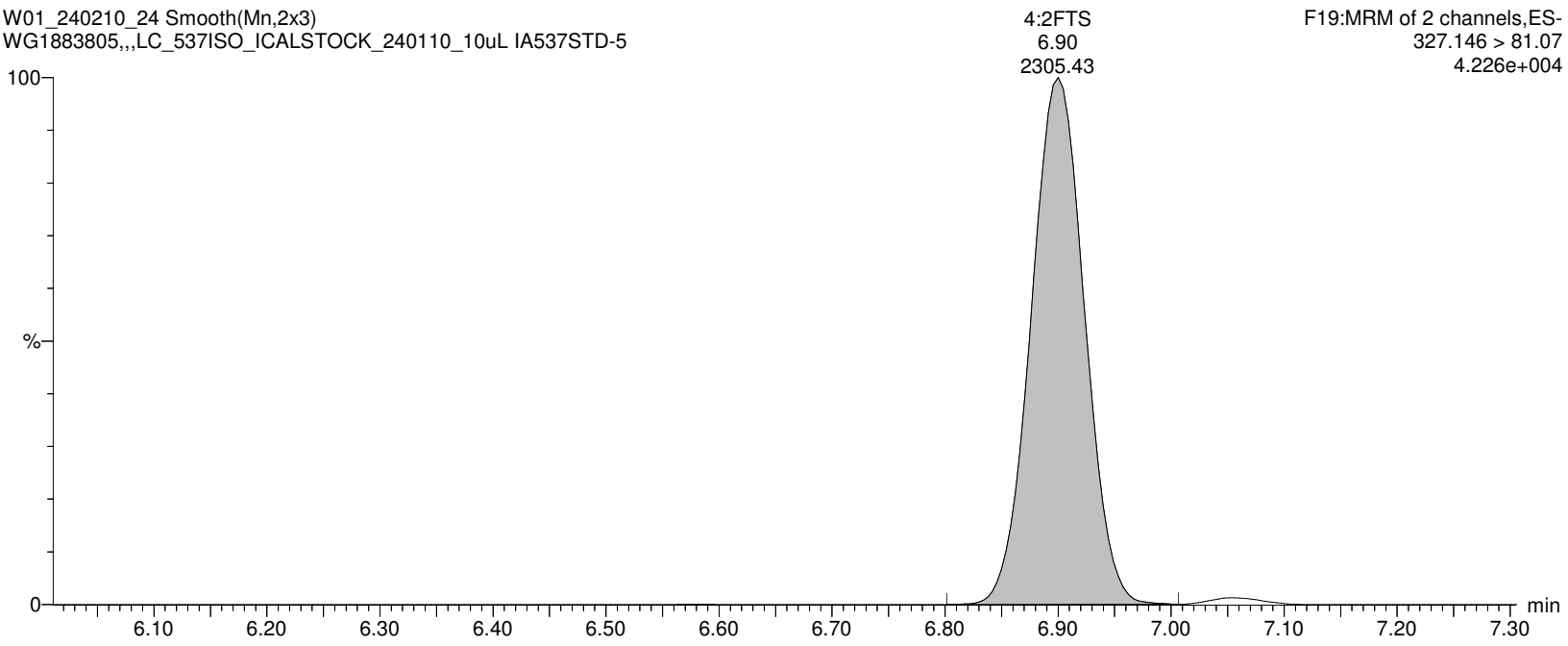

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
Time: 17:03:10
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User: LCMS01:SG
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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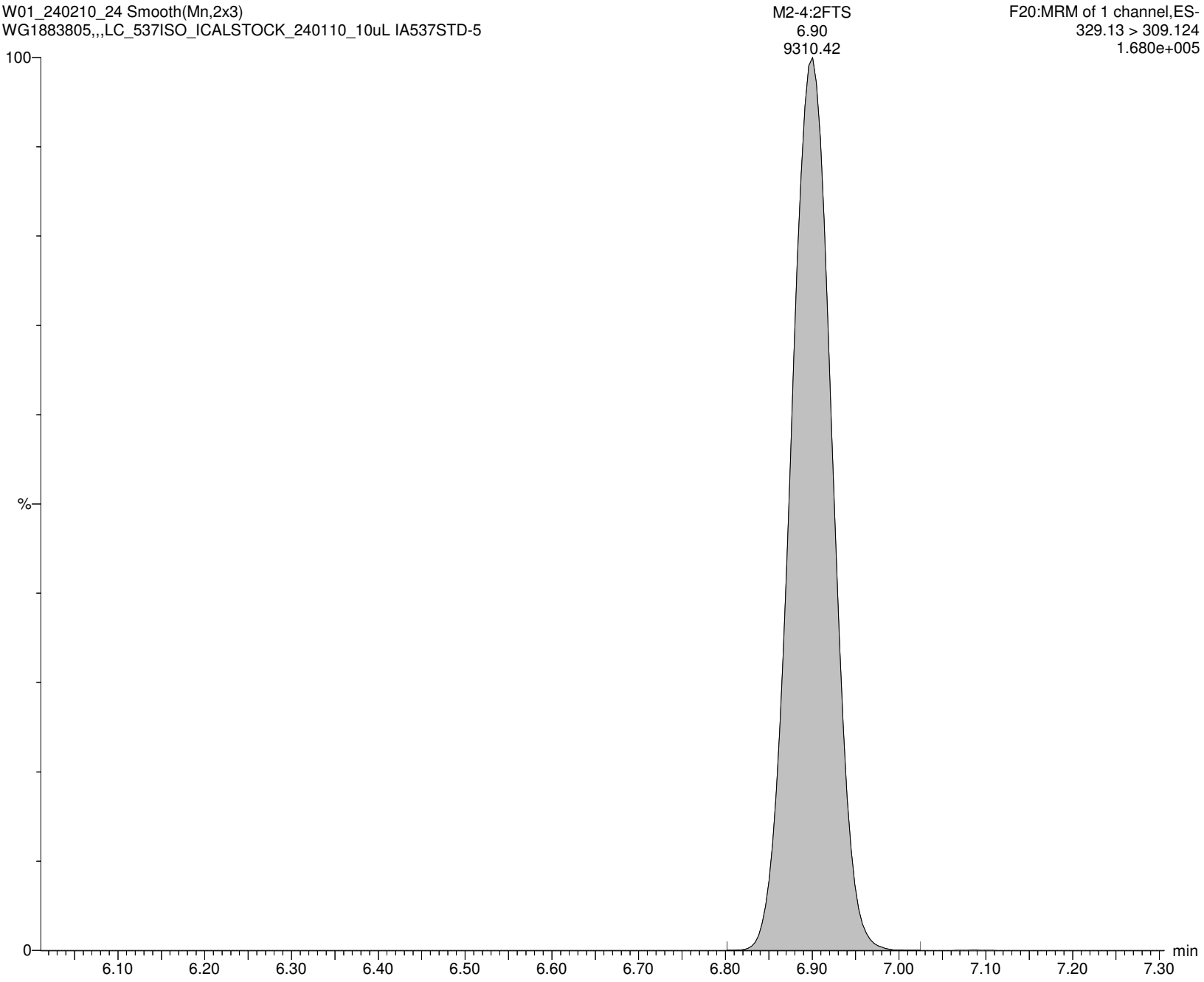
M2-4:2FTS



all concentration units in (ng/mL)

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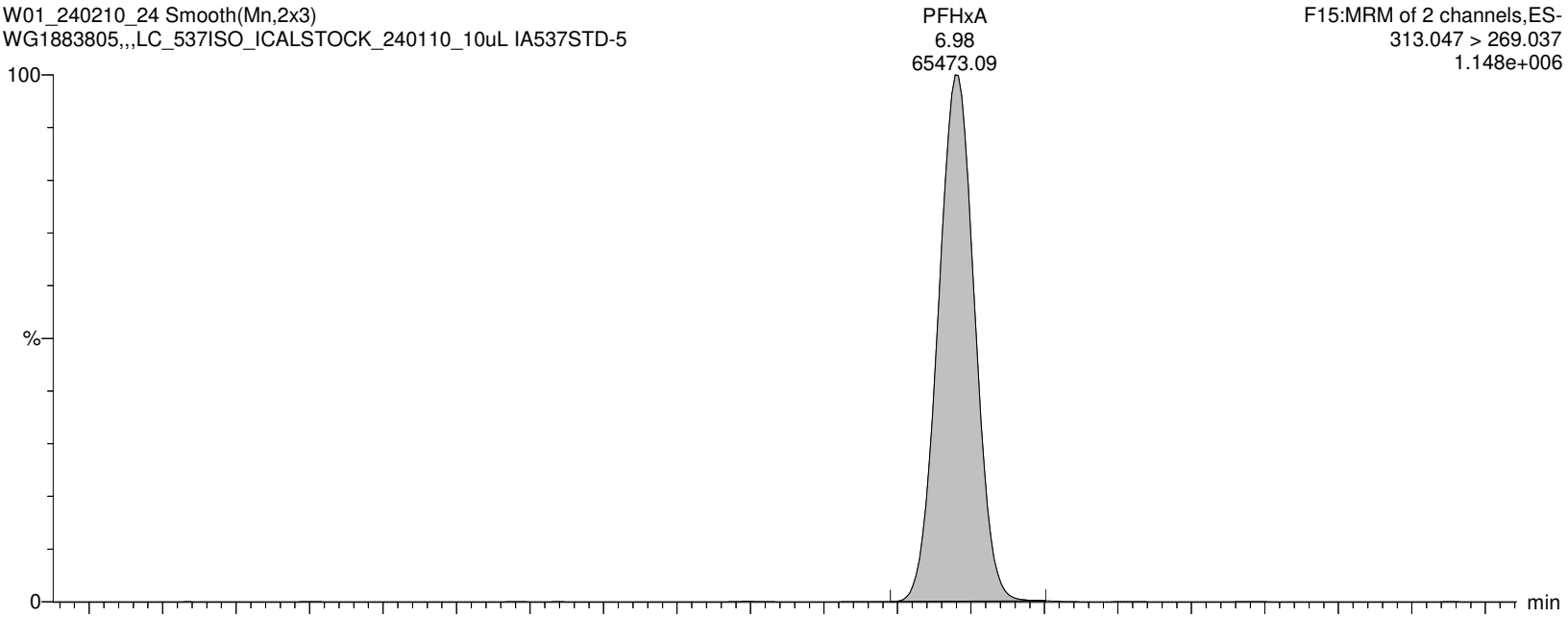

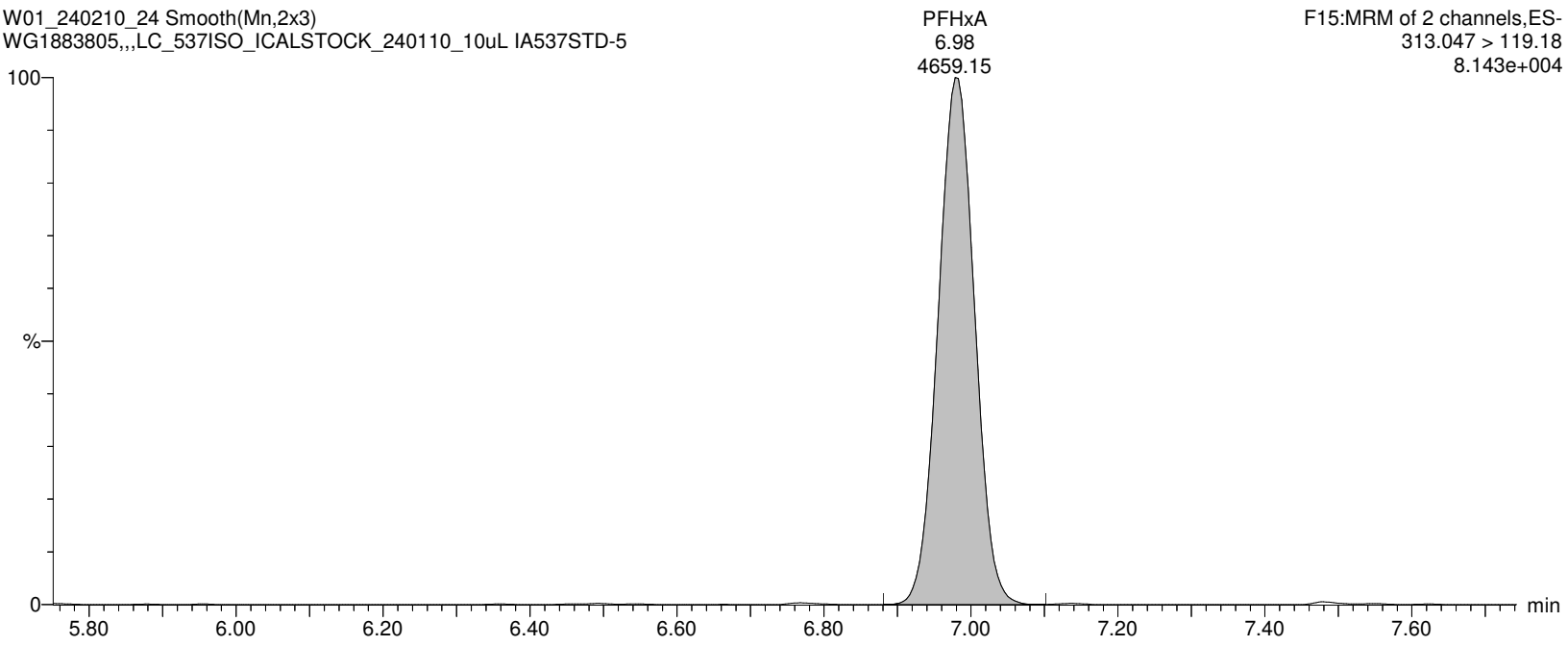

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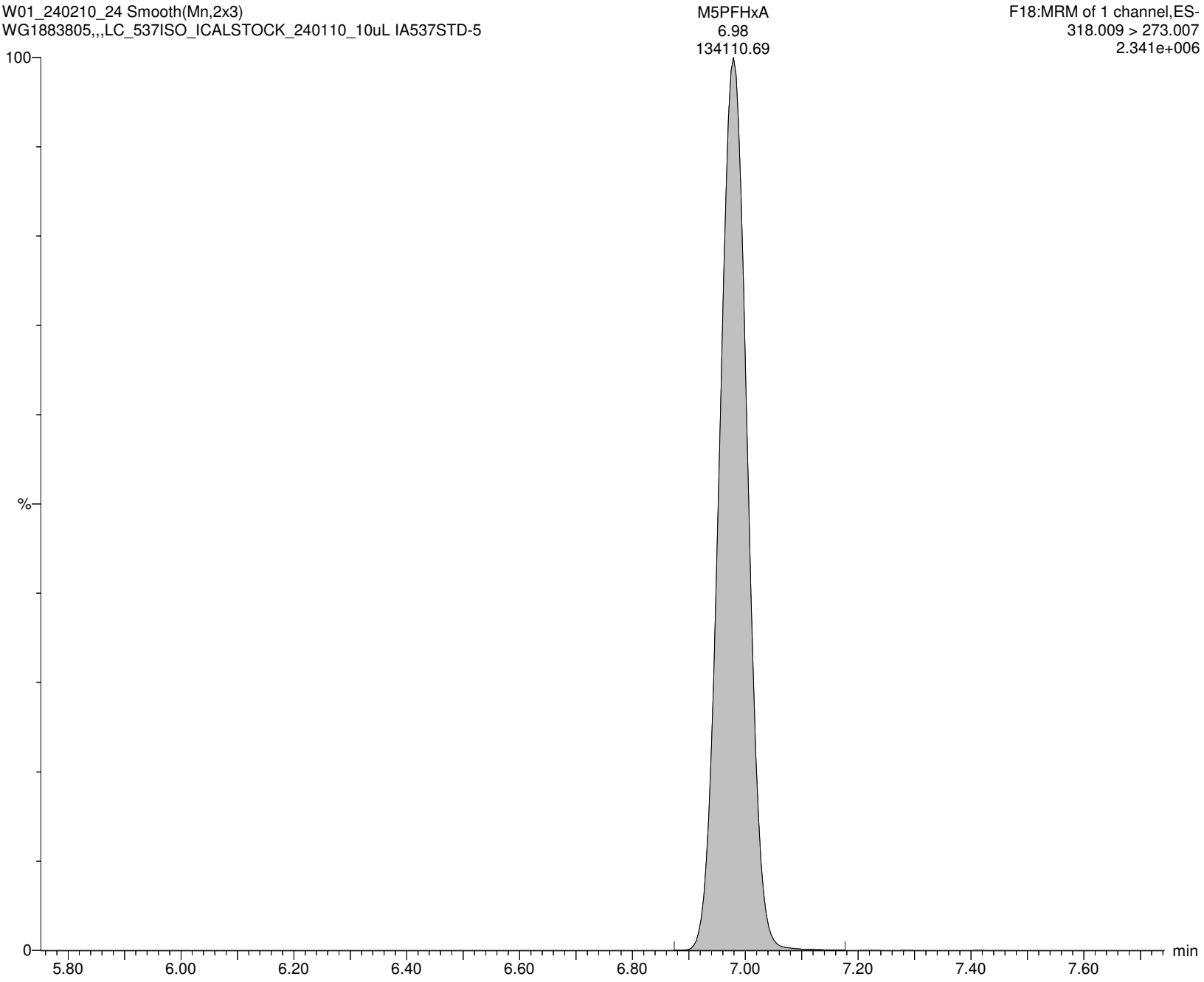

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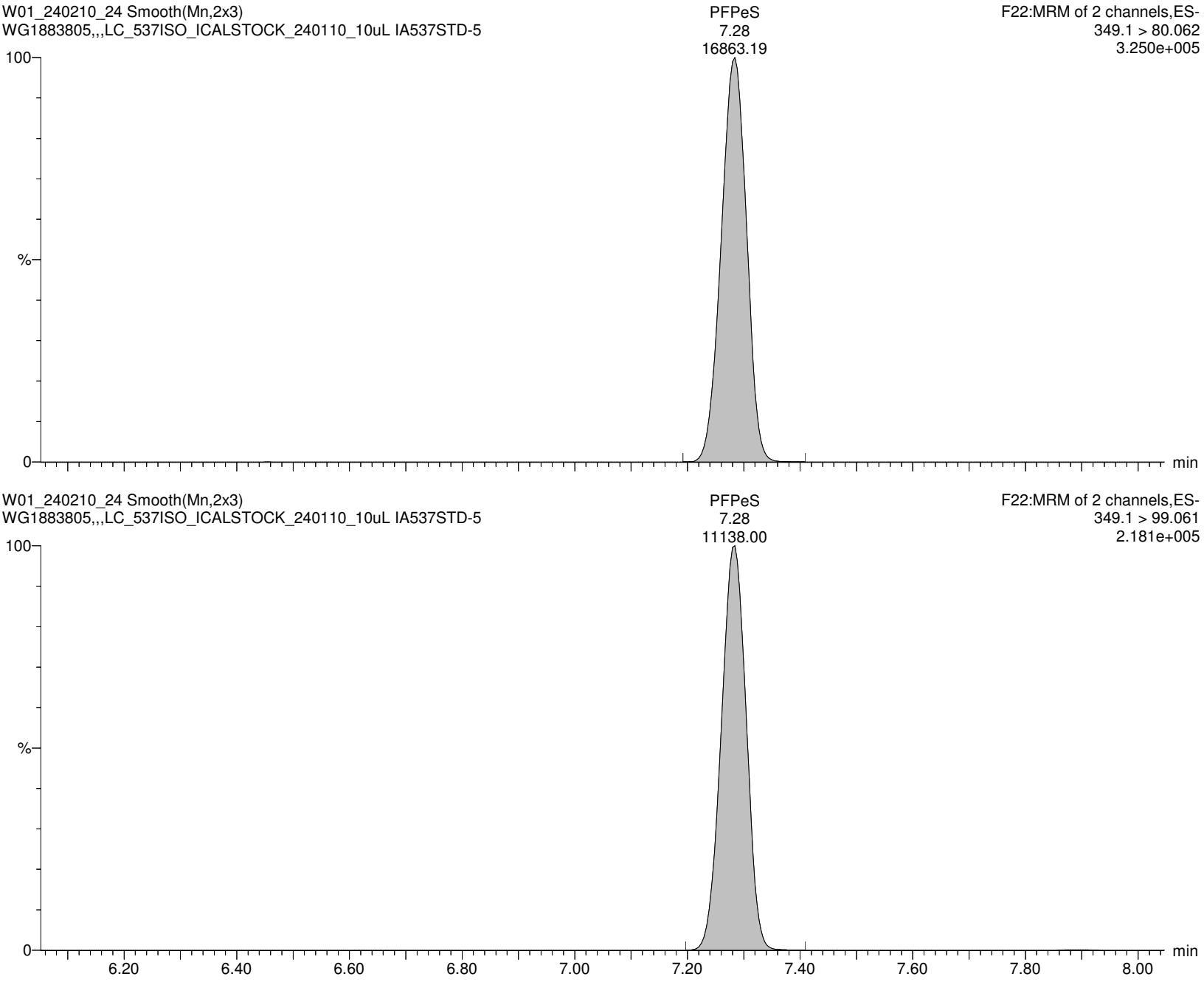

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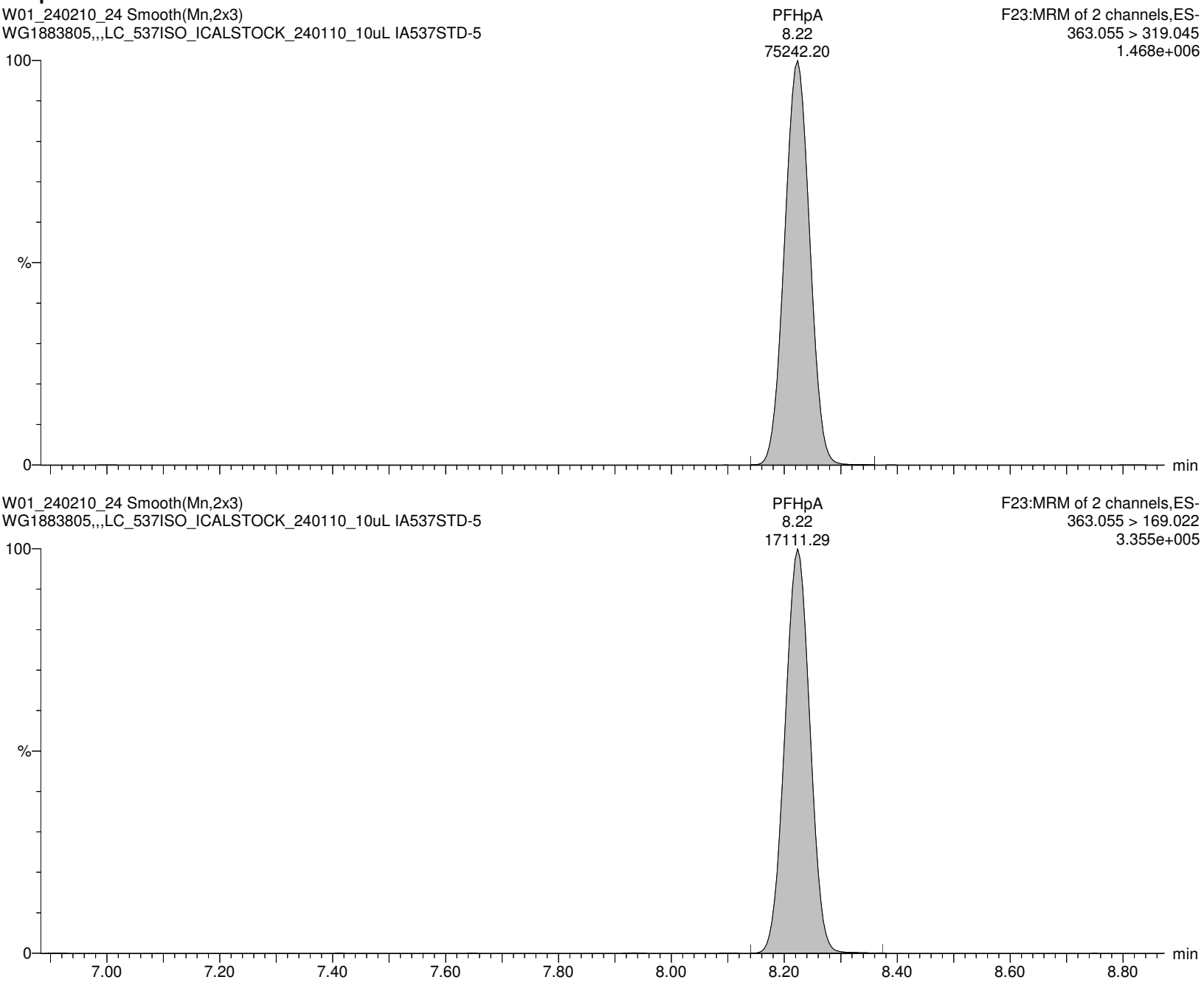

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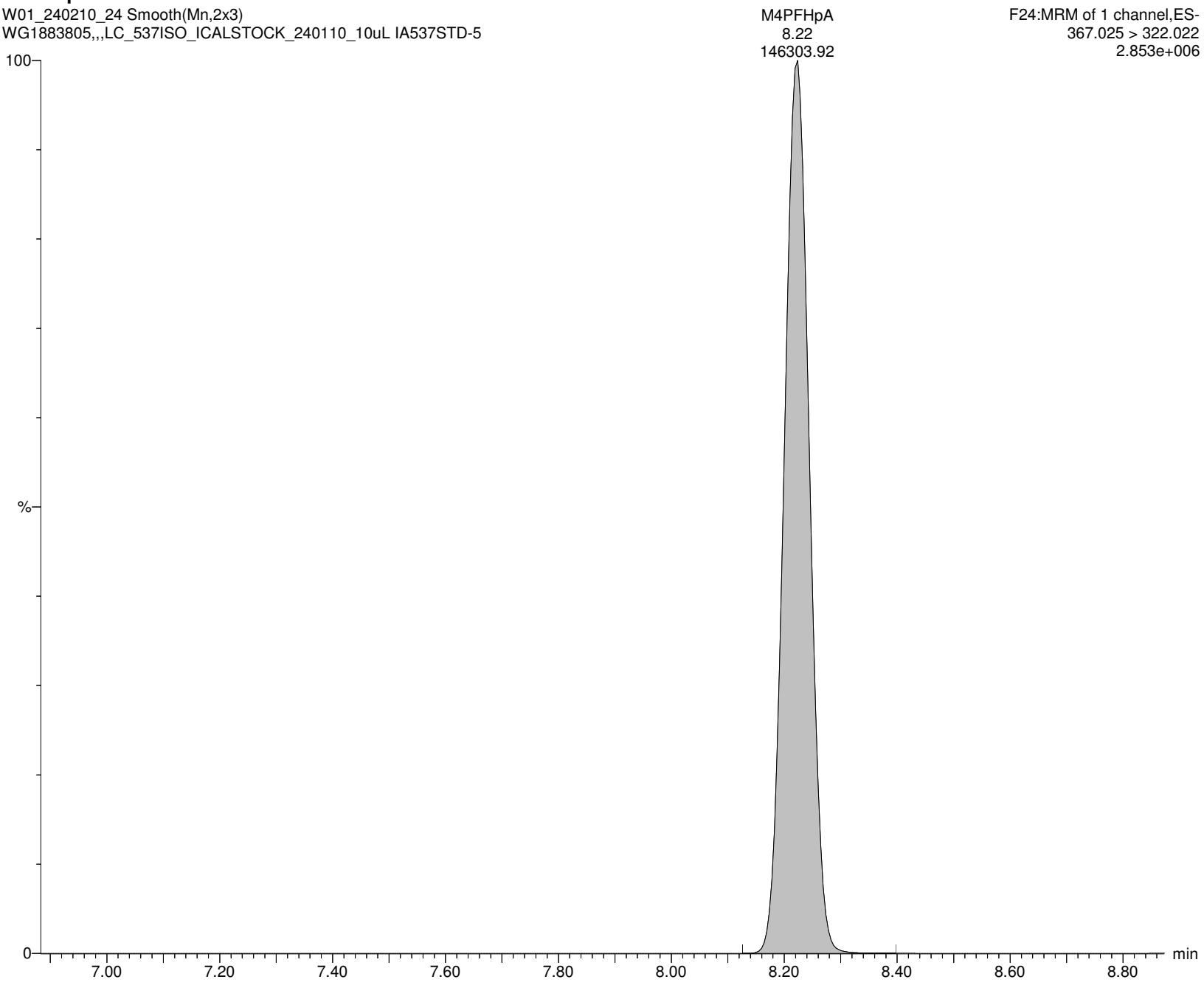

all concentration units in (ng/mL)

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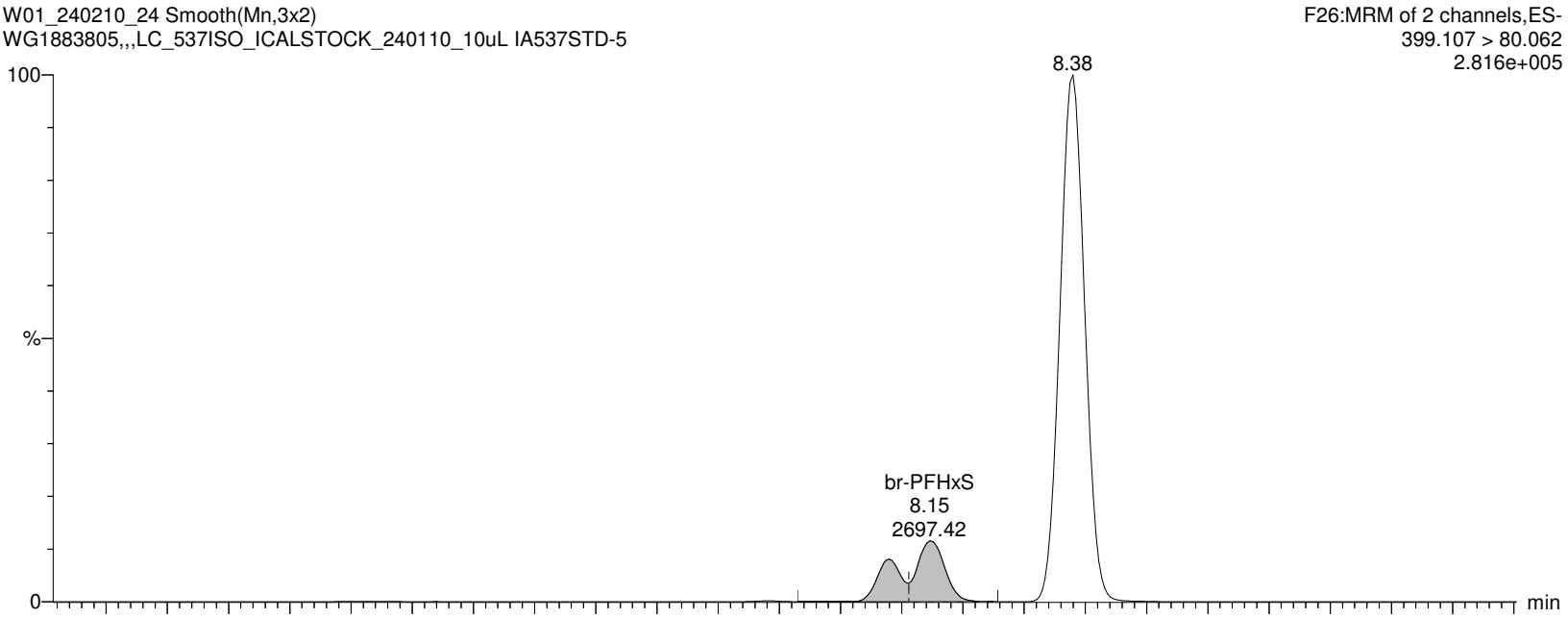

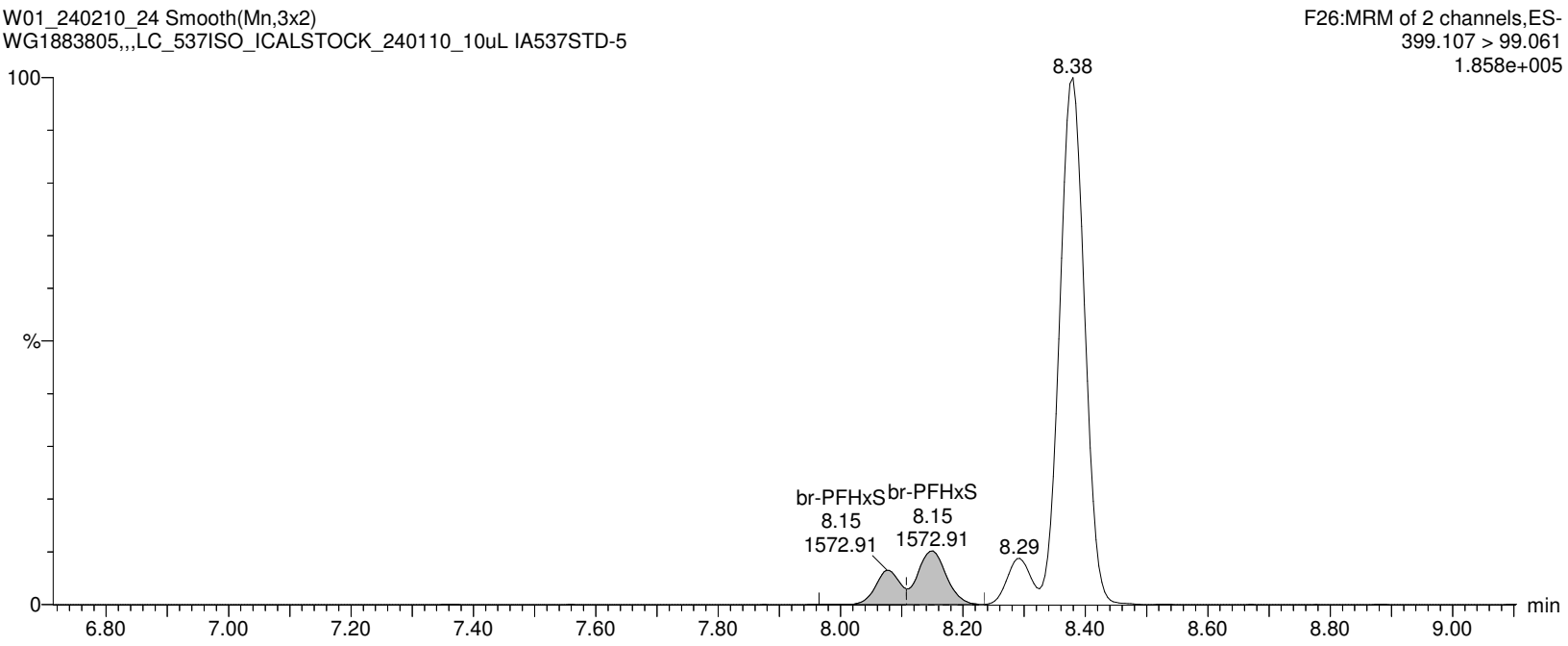

all concentration units in (ng/mL)

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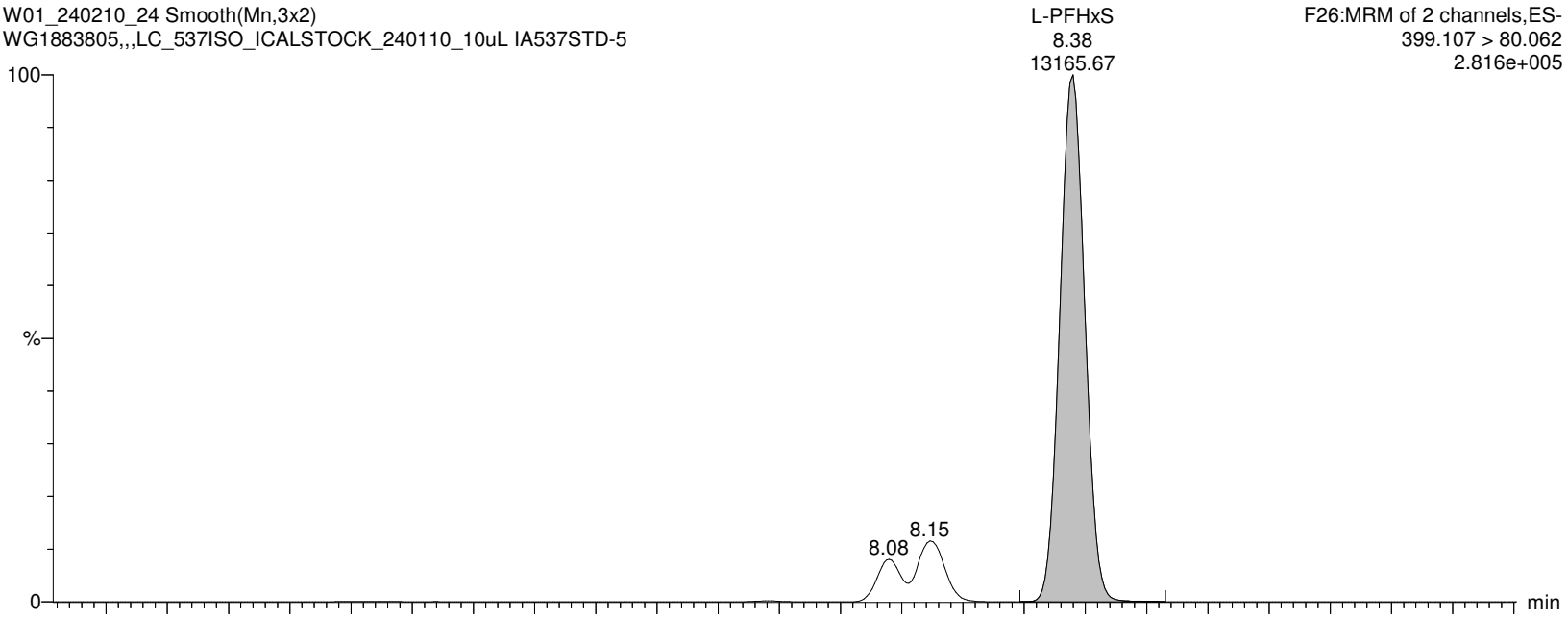

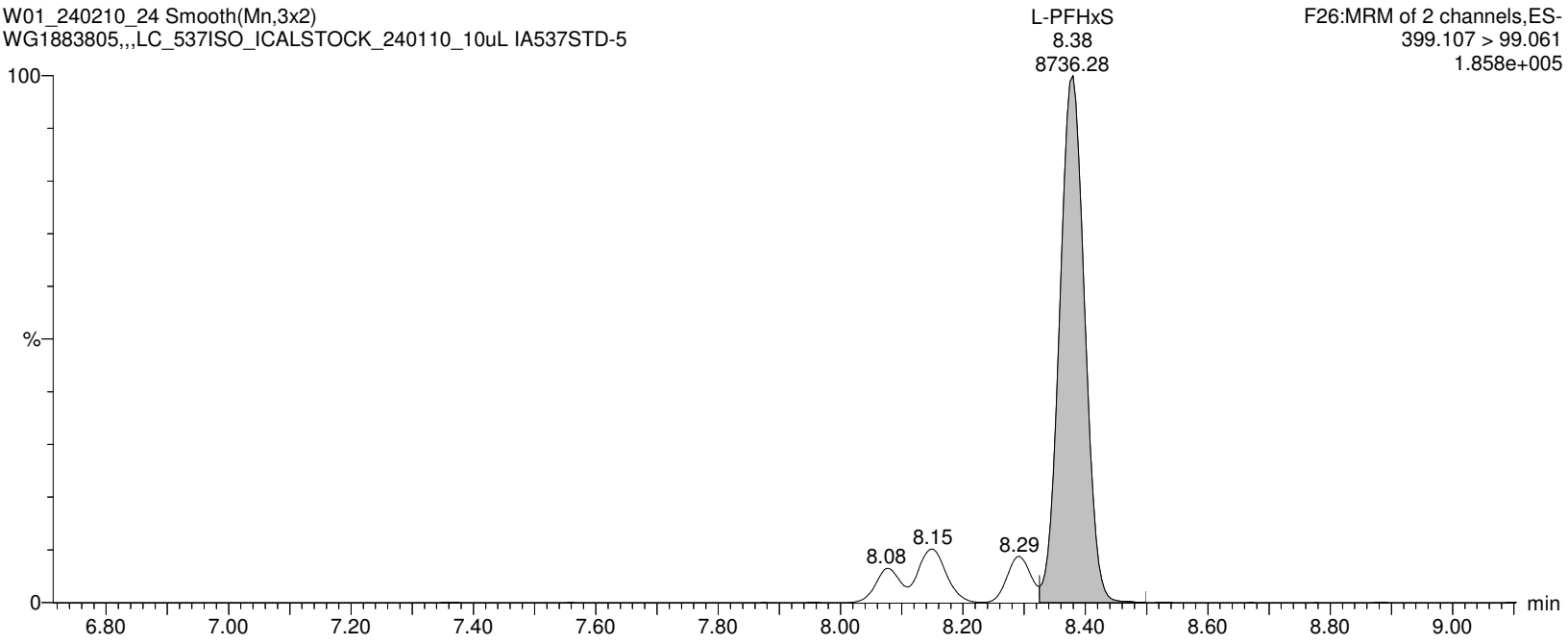

all concentration units in (ng/mL)

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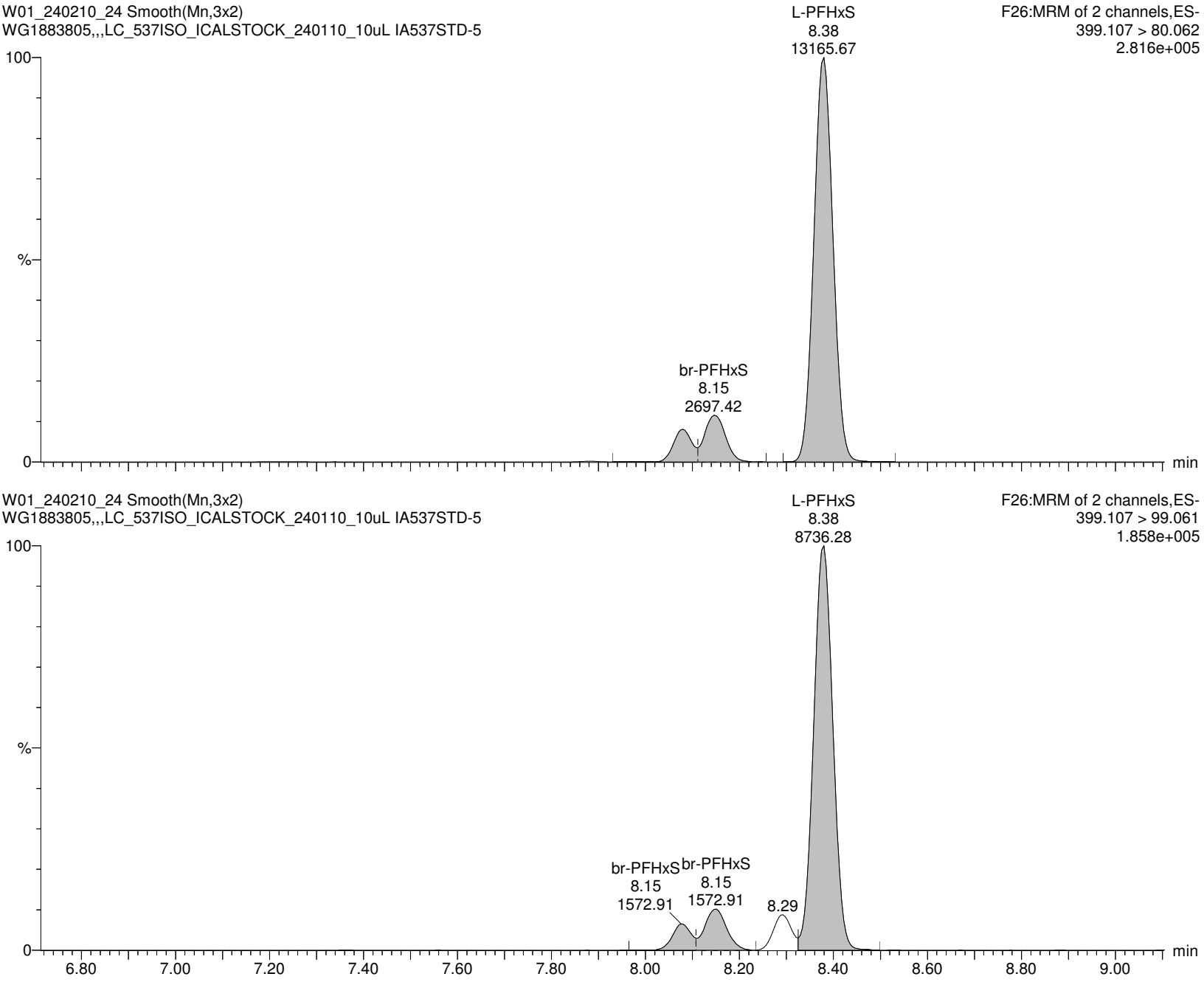

all concentration units in (ng/mL)

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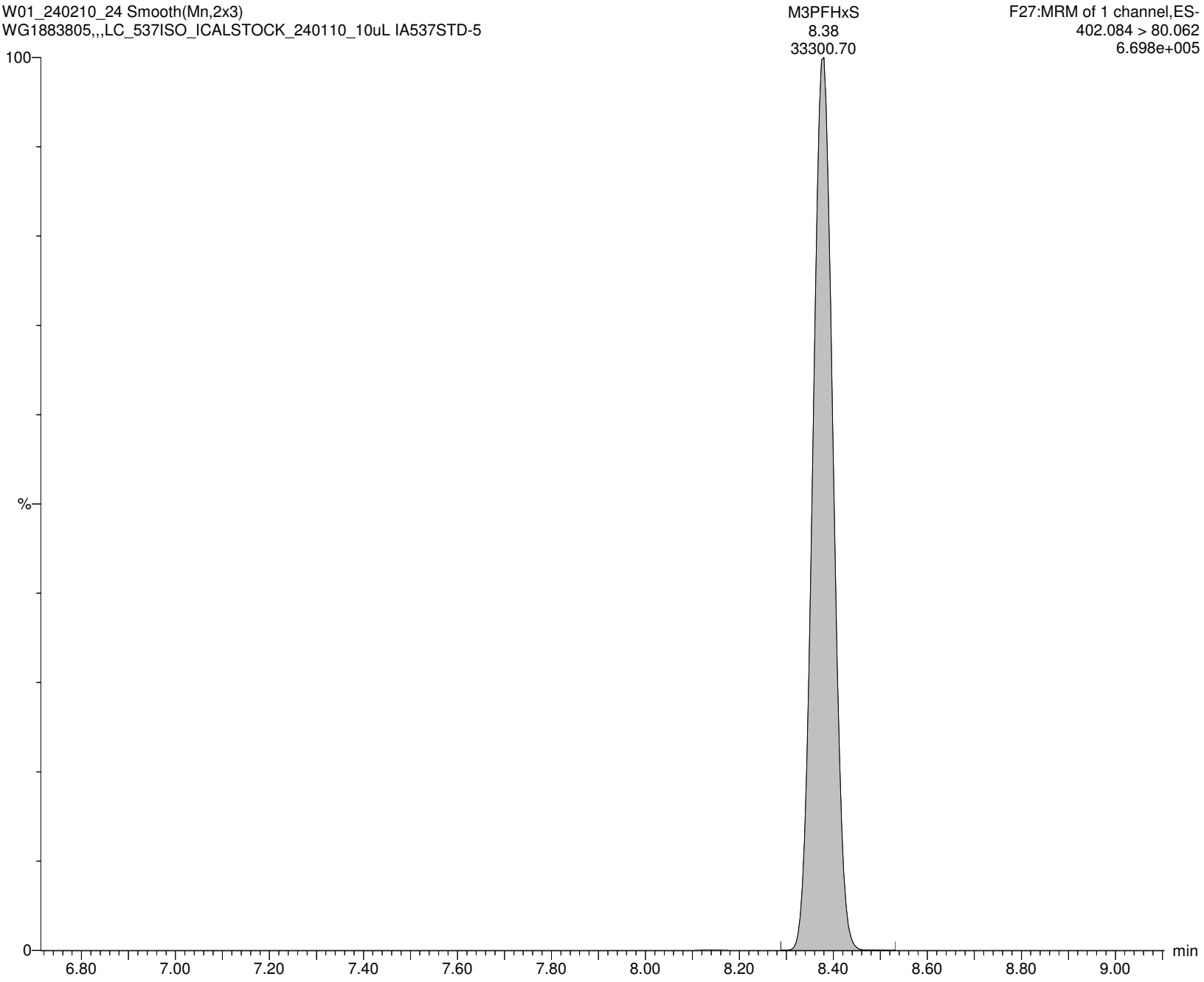

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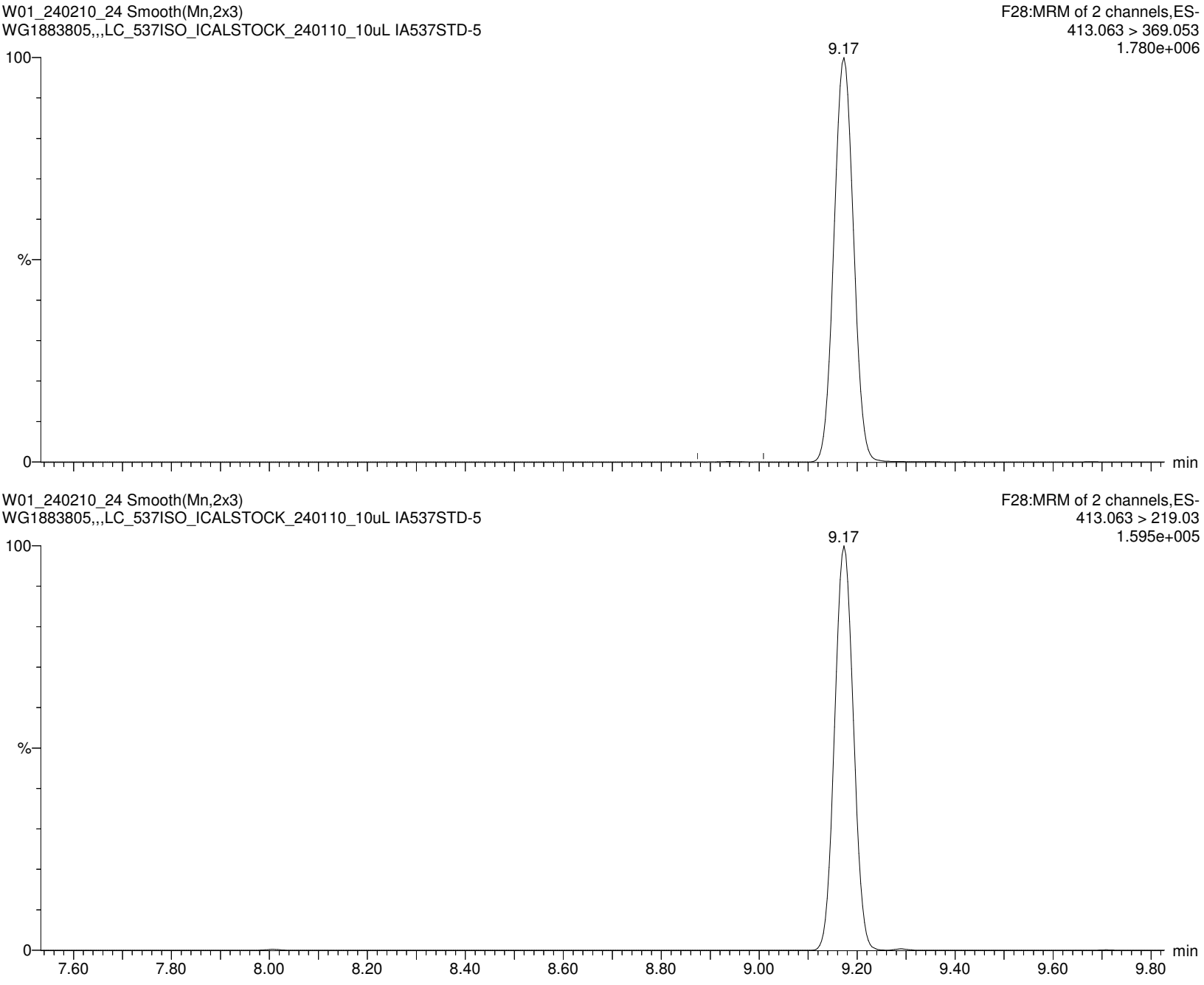

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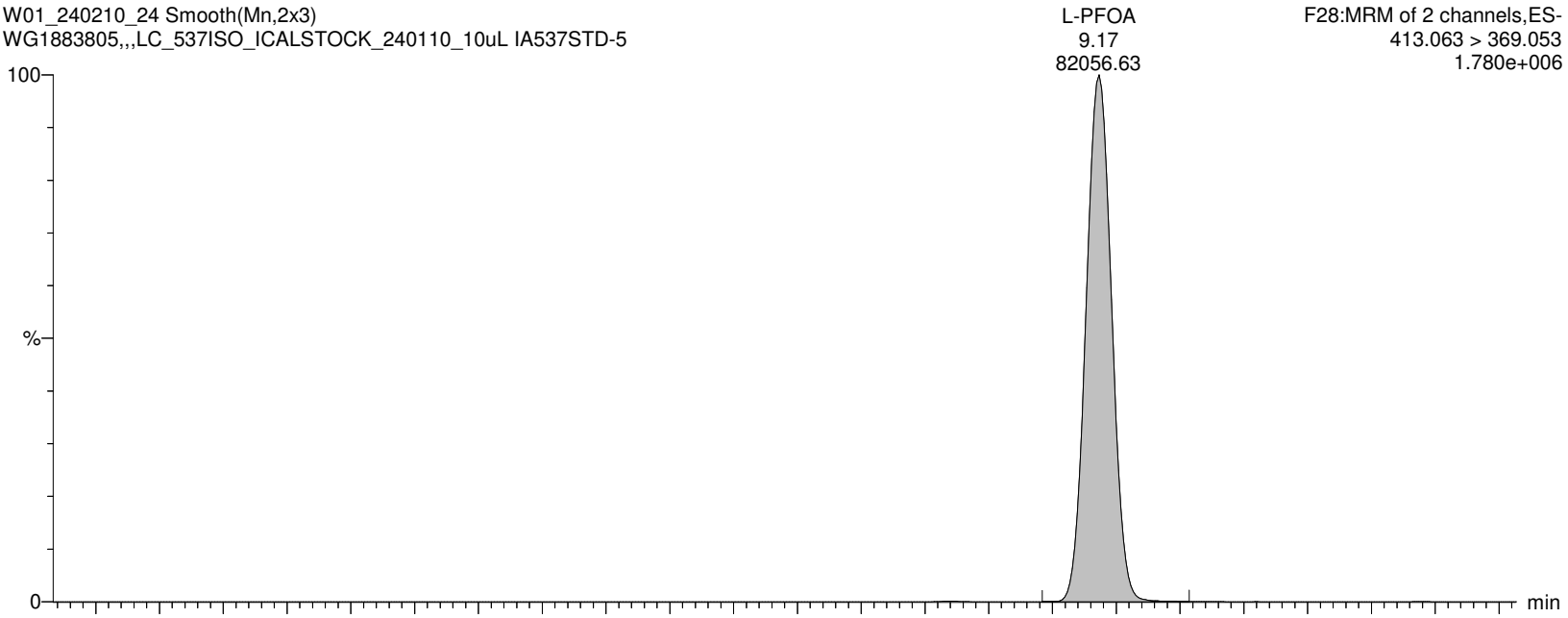

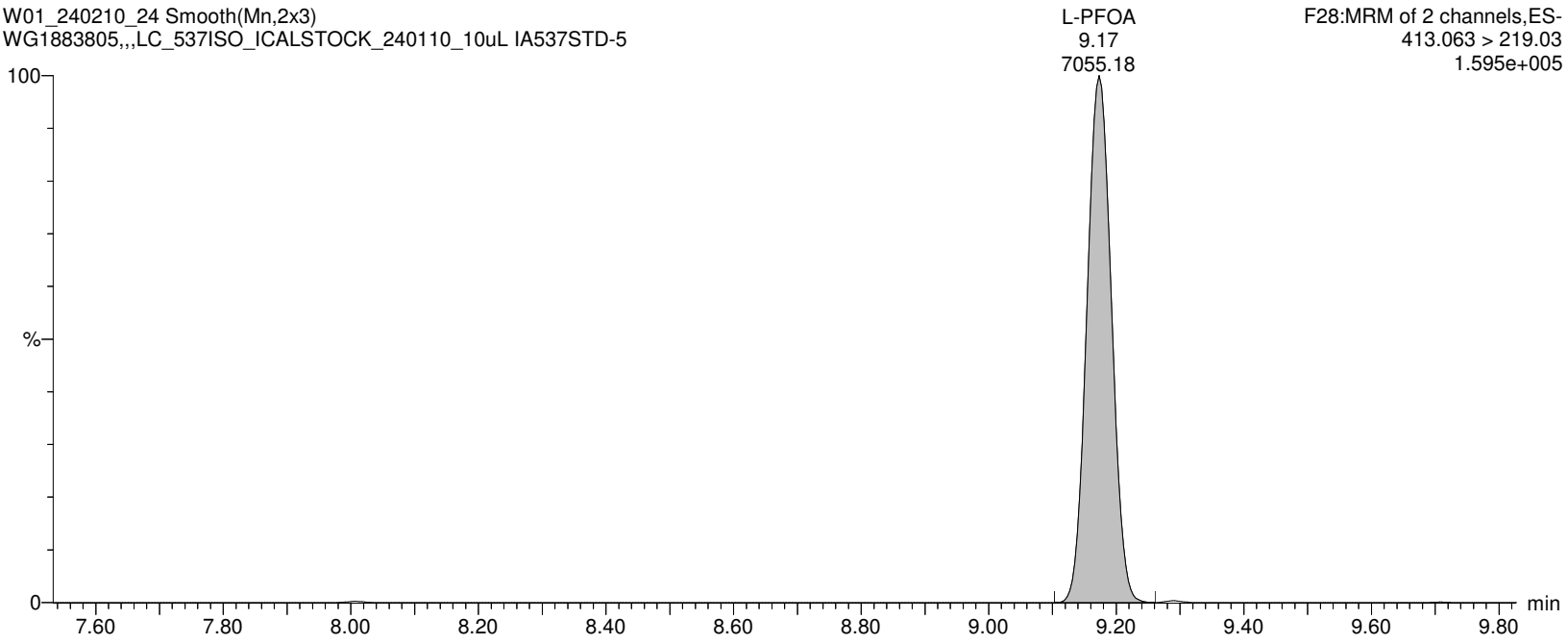

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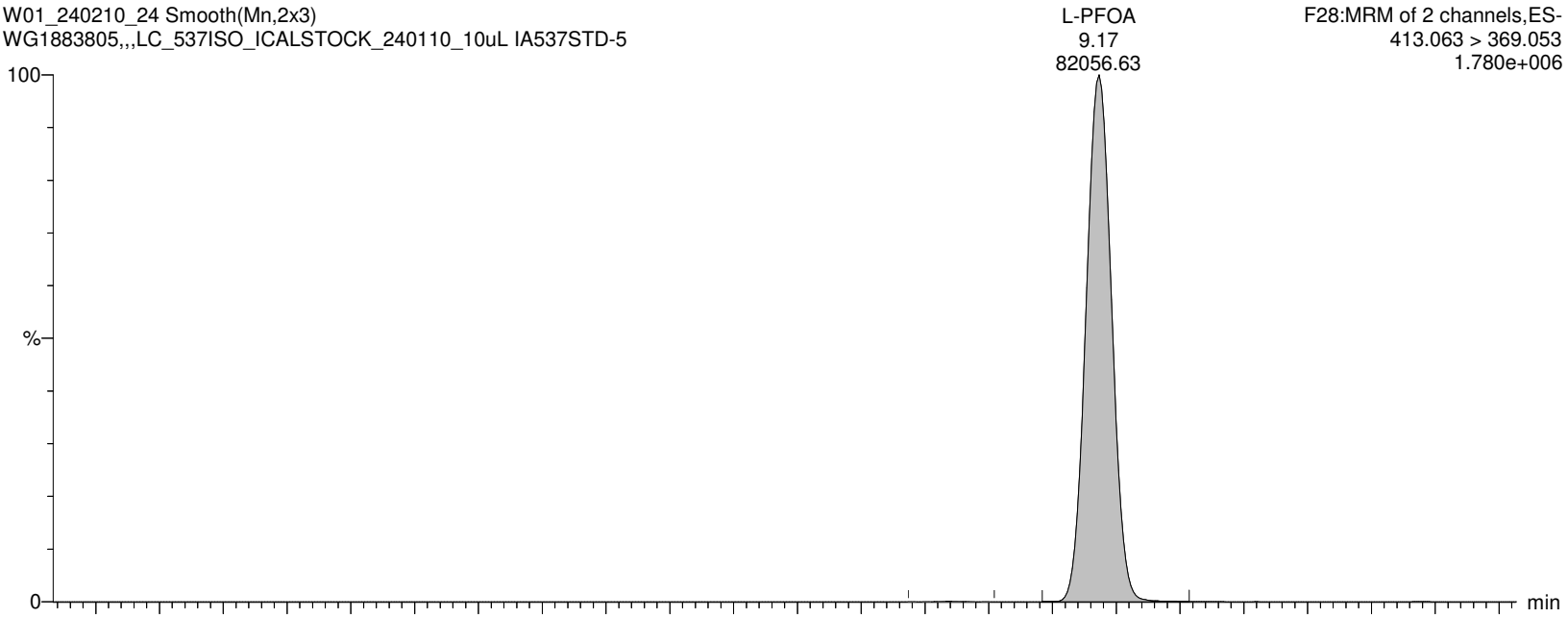

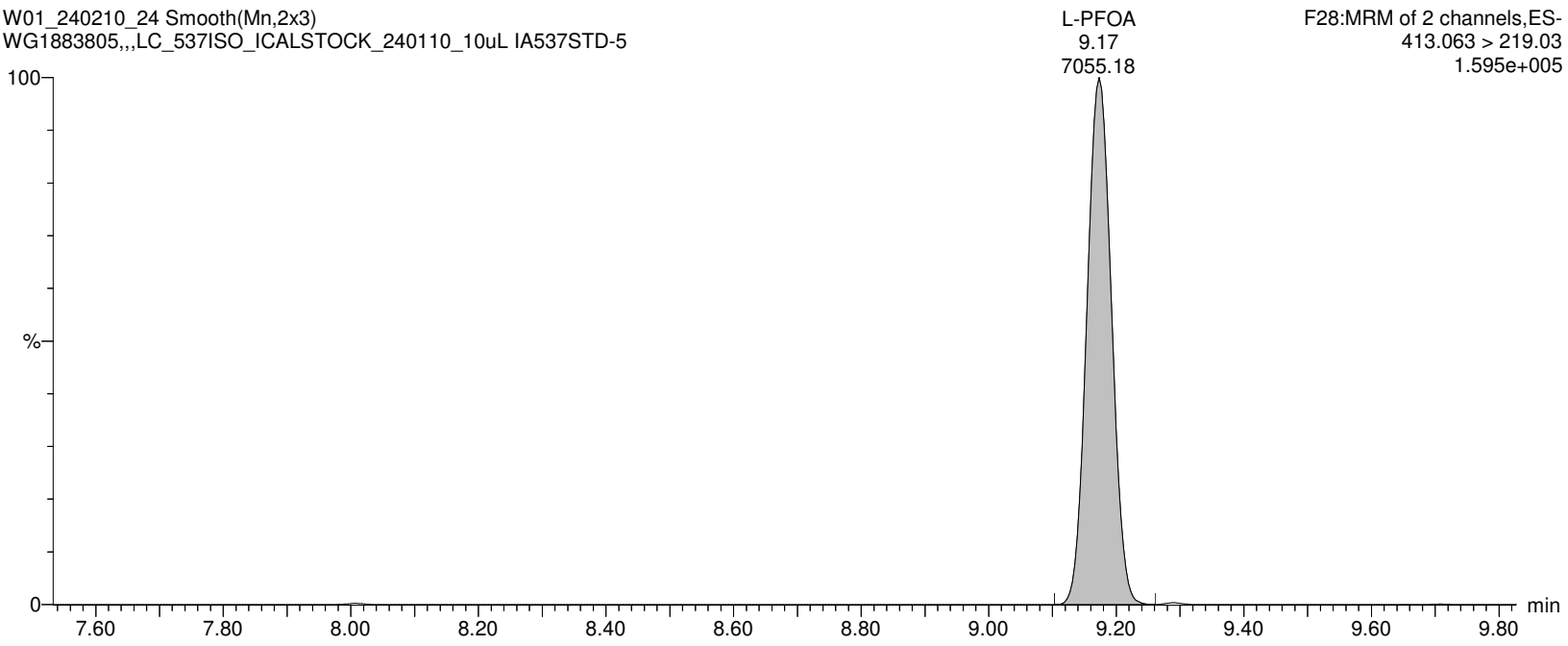

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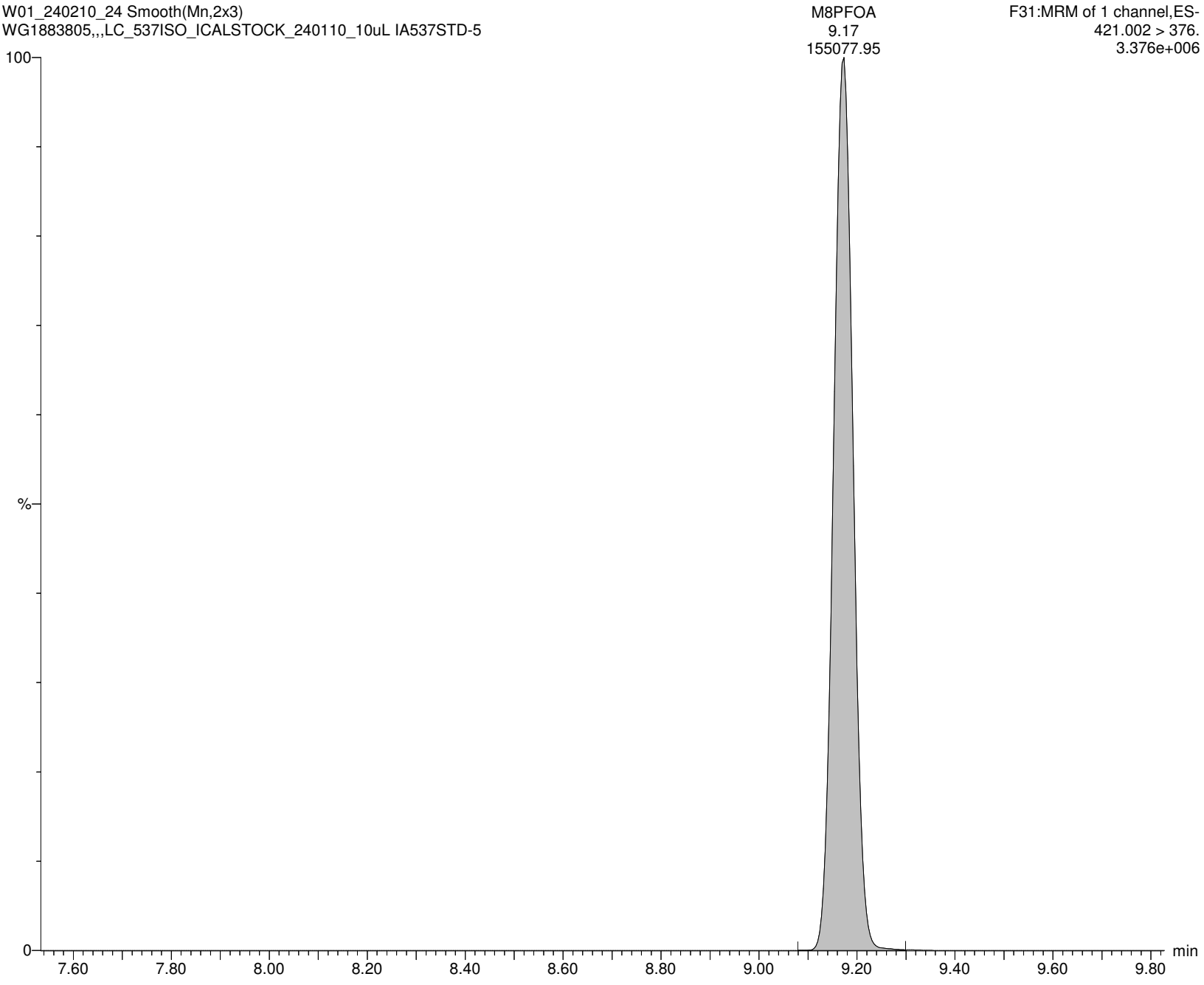

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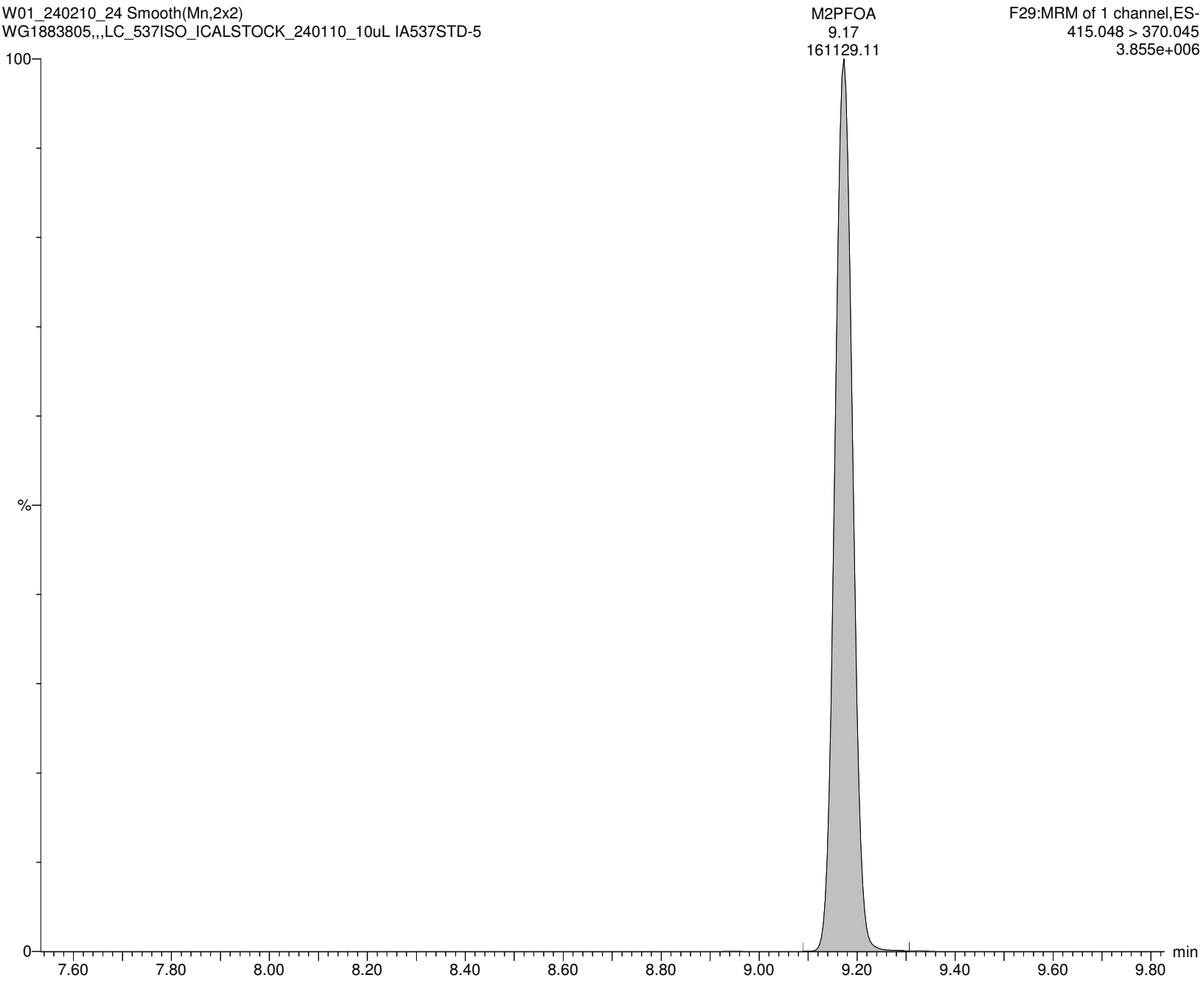
M2PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
Time: 17:03:10
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User: LCMS01:SG
Vial: 1:B,4
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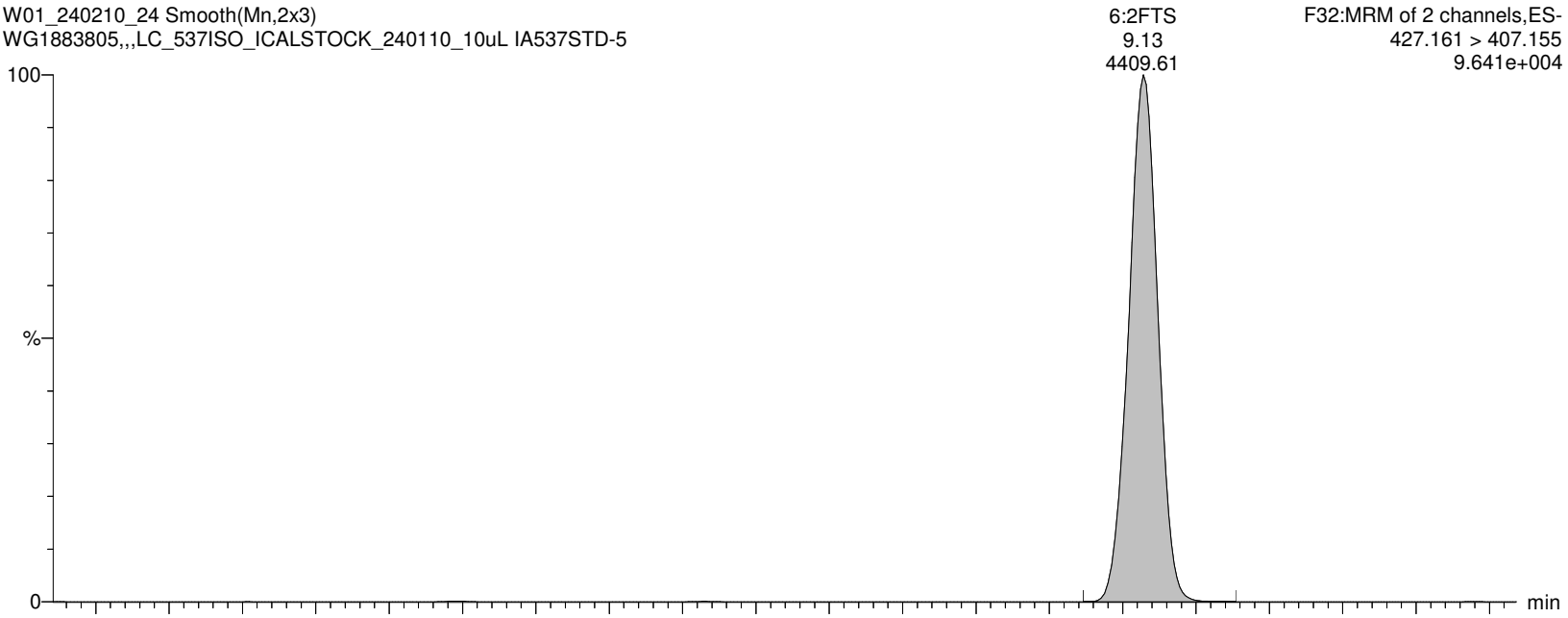
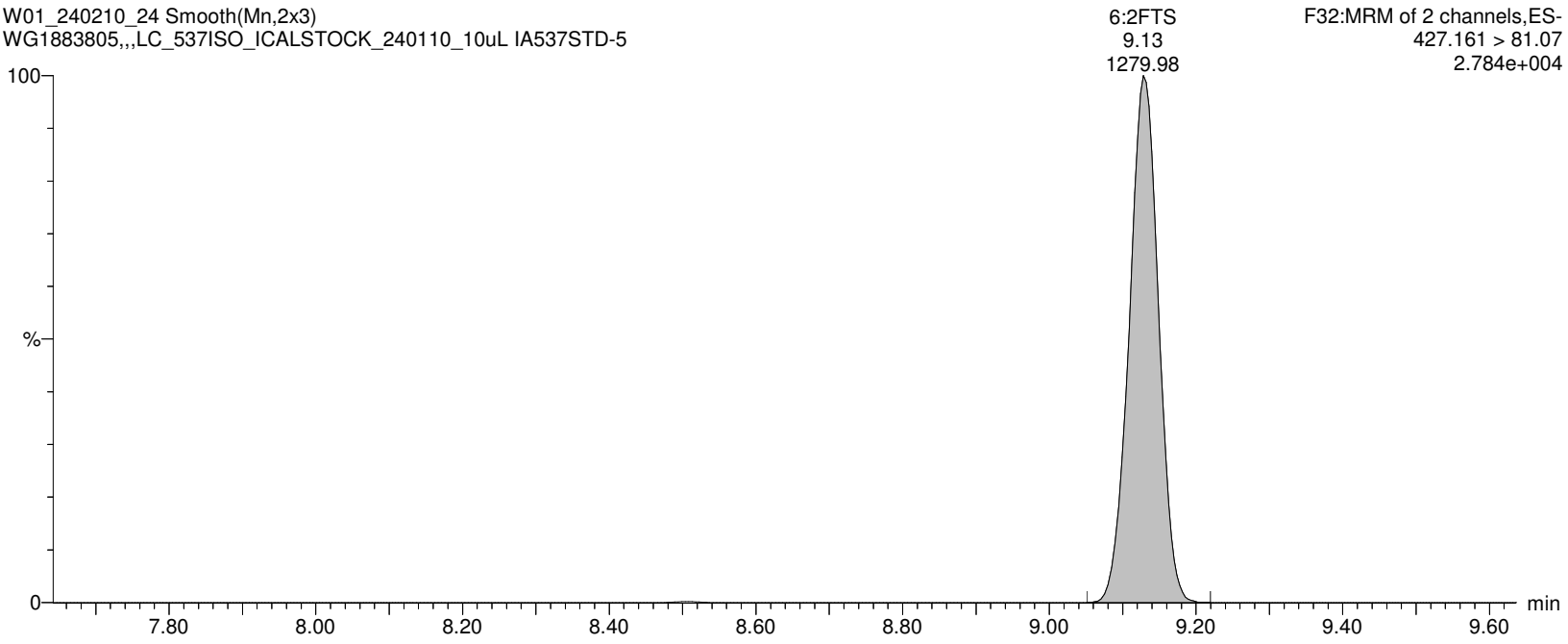
6:2FTS





all concentration units in (ng/mL)

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Vial: 1:B,4
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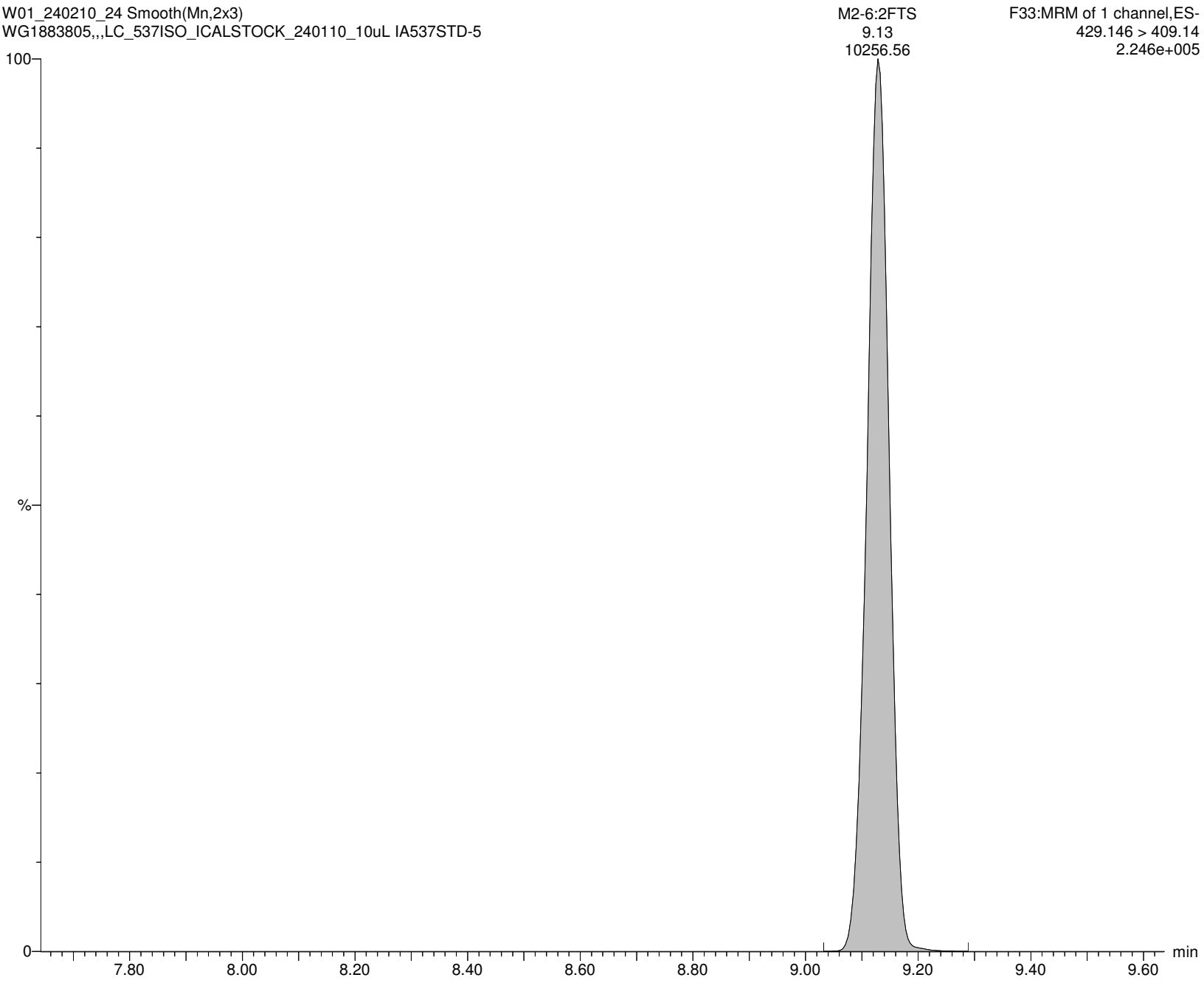

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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Vial: 1:B,4
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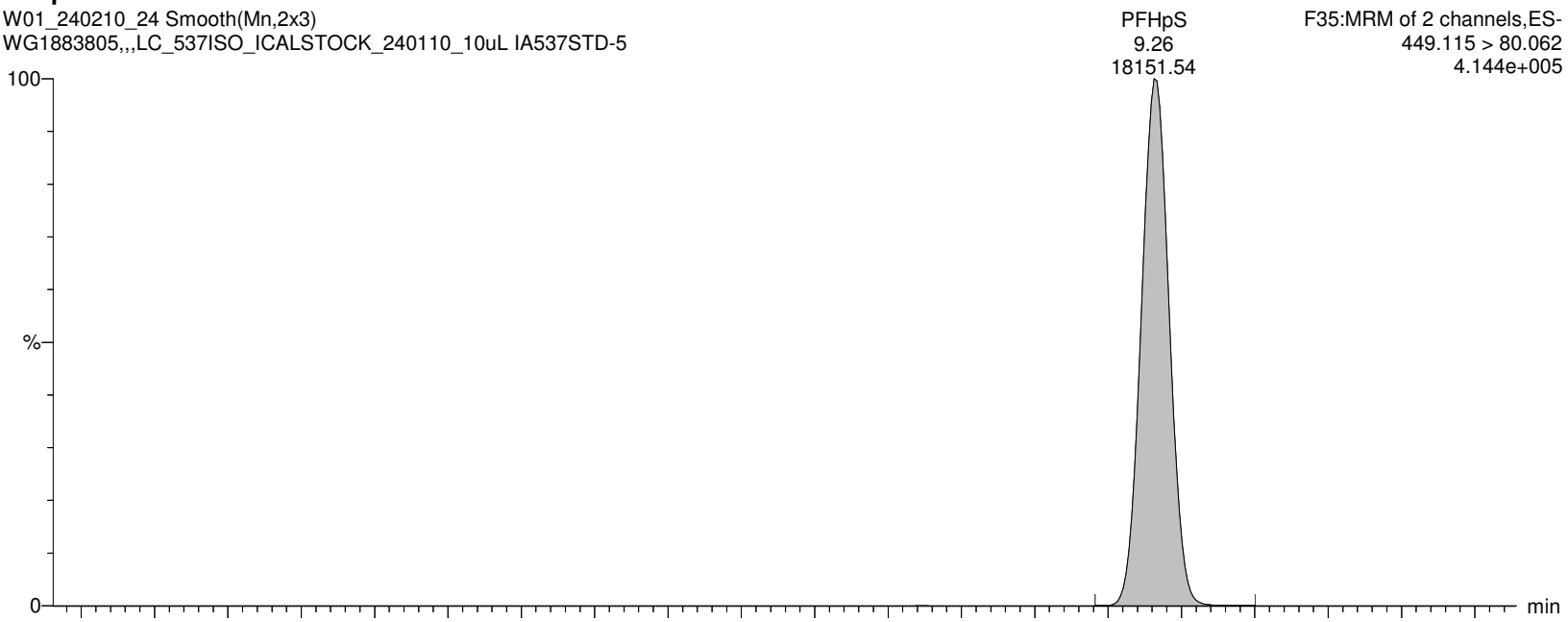

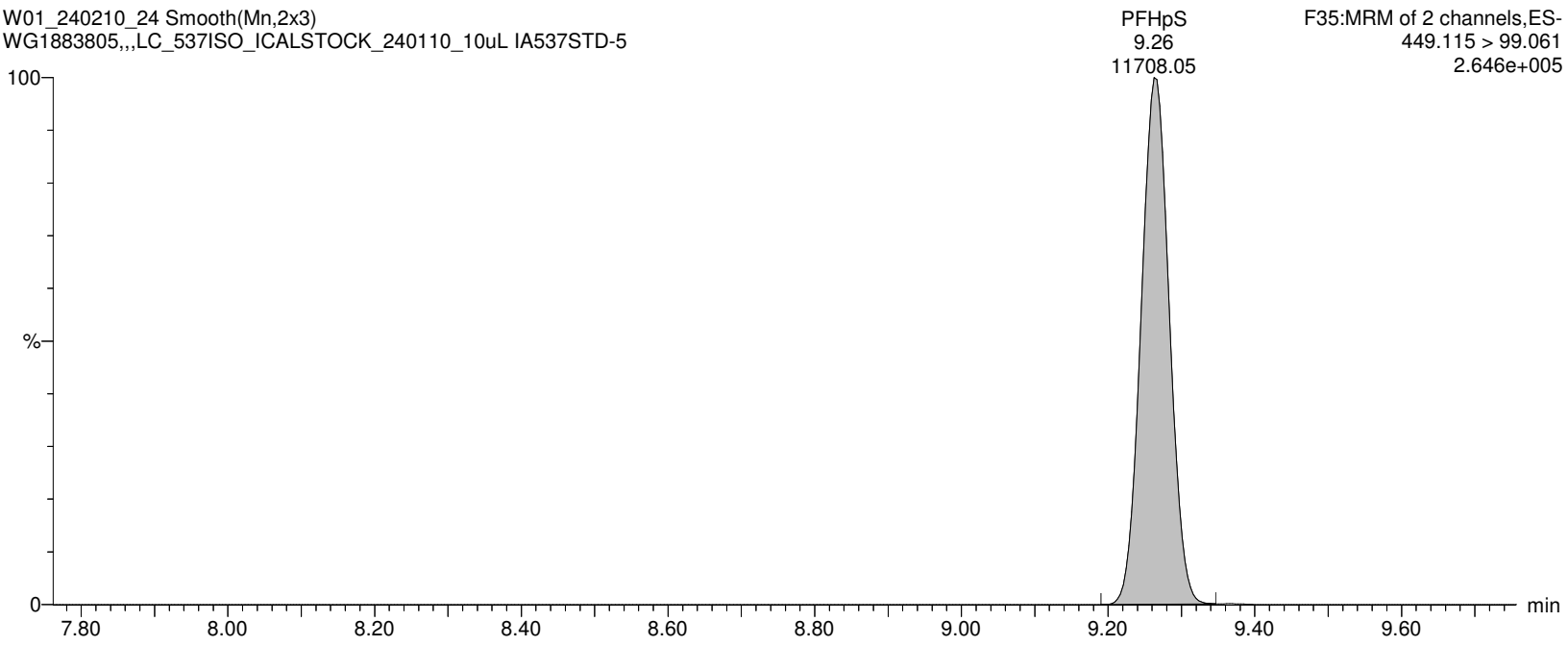

all concentration units in (ng/mL)

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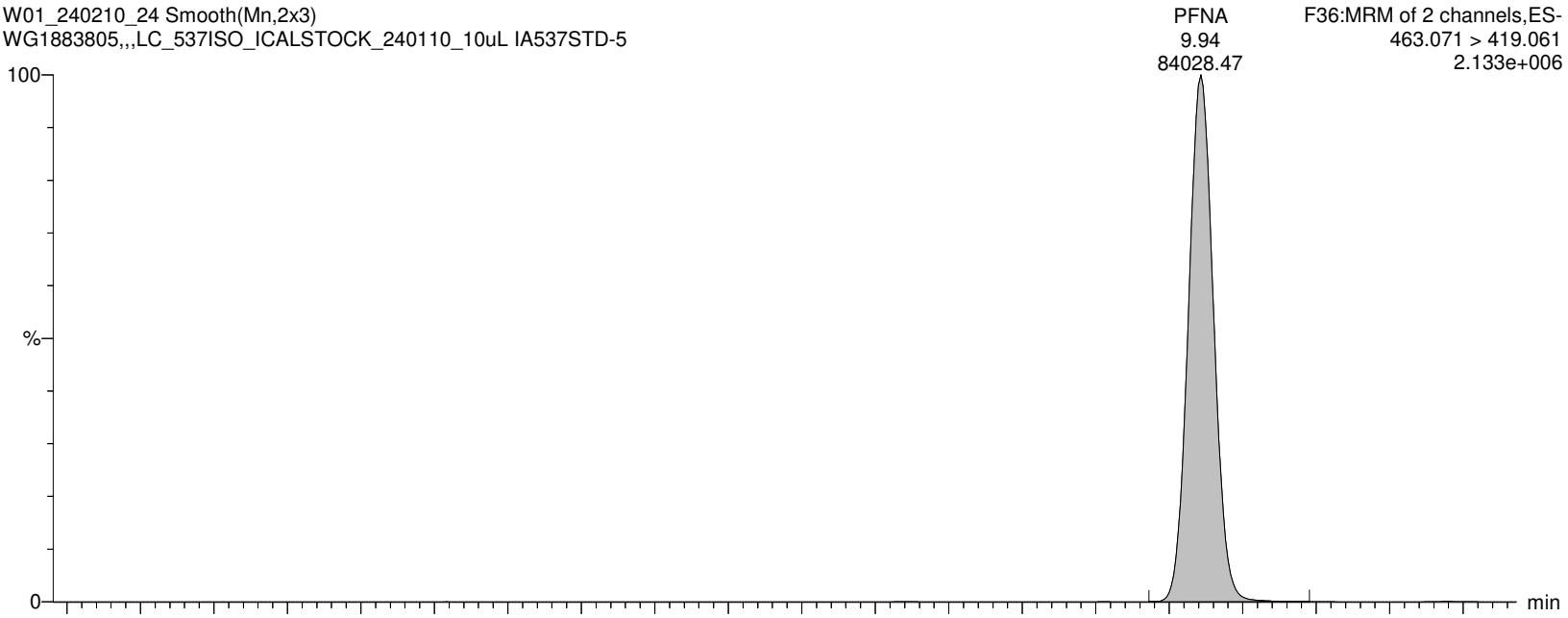

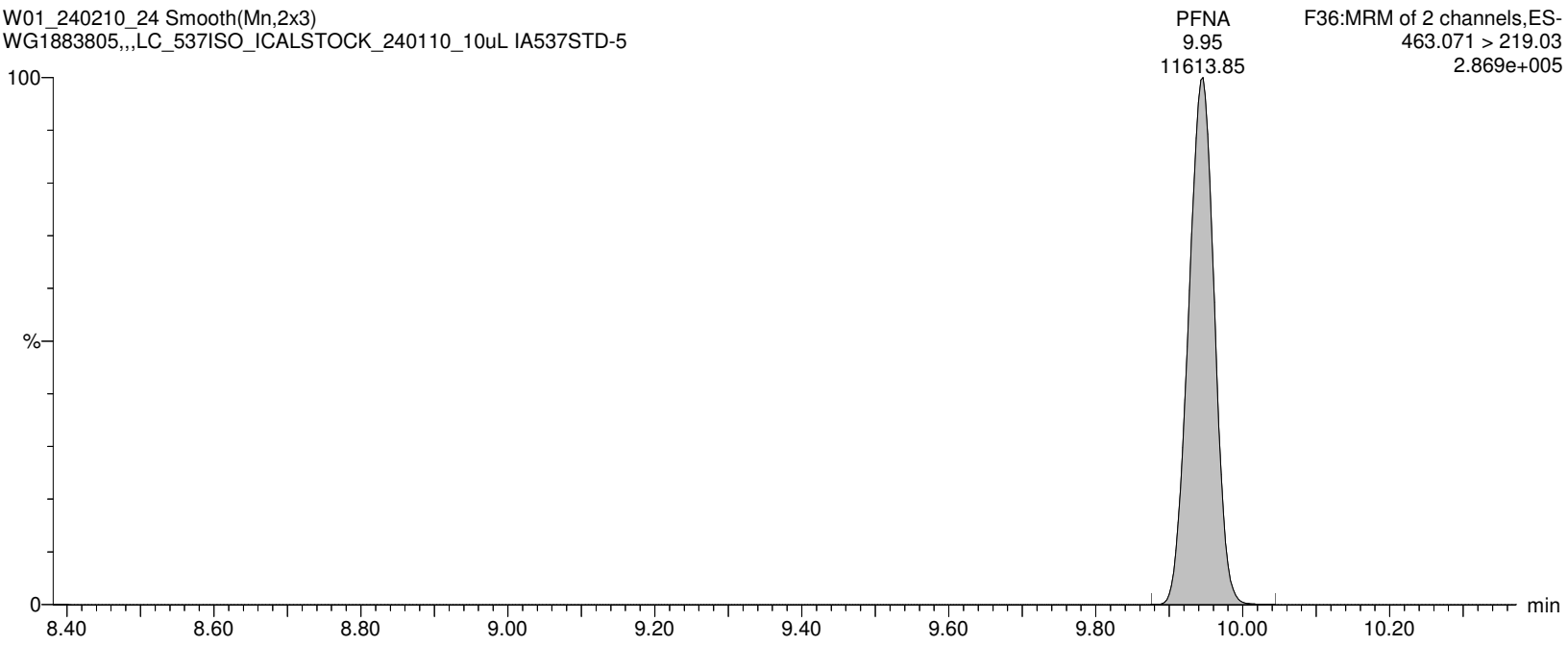

all concentration units in (ng/mL)

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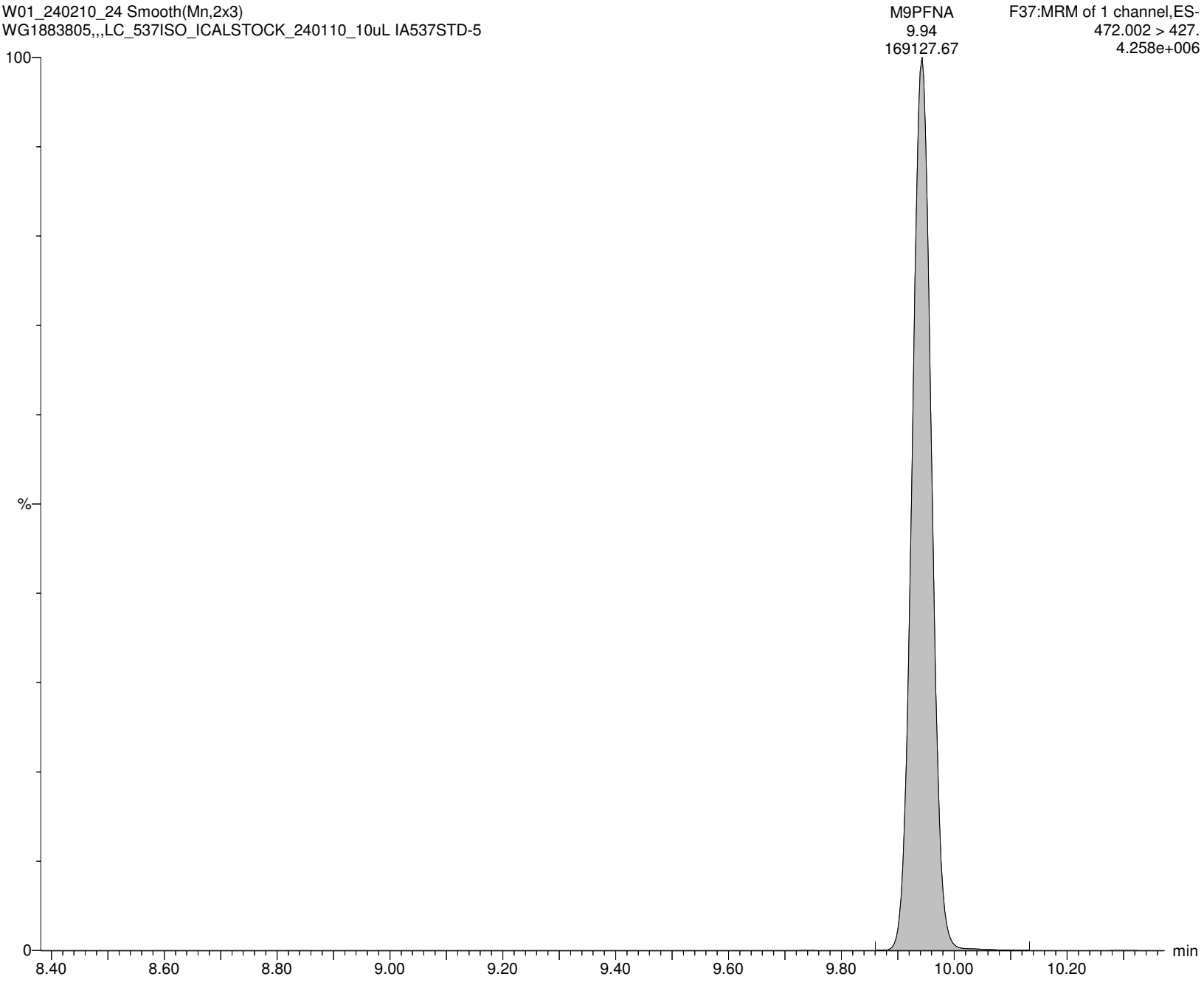

all concentration units in (ng/mL)

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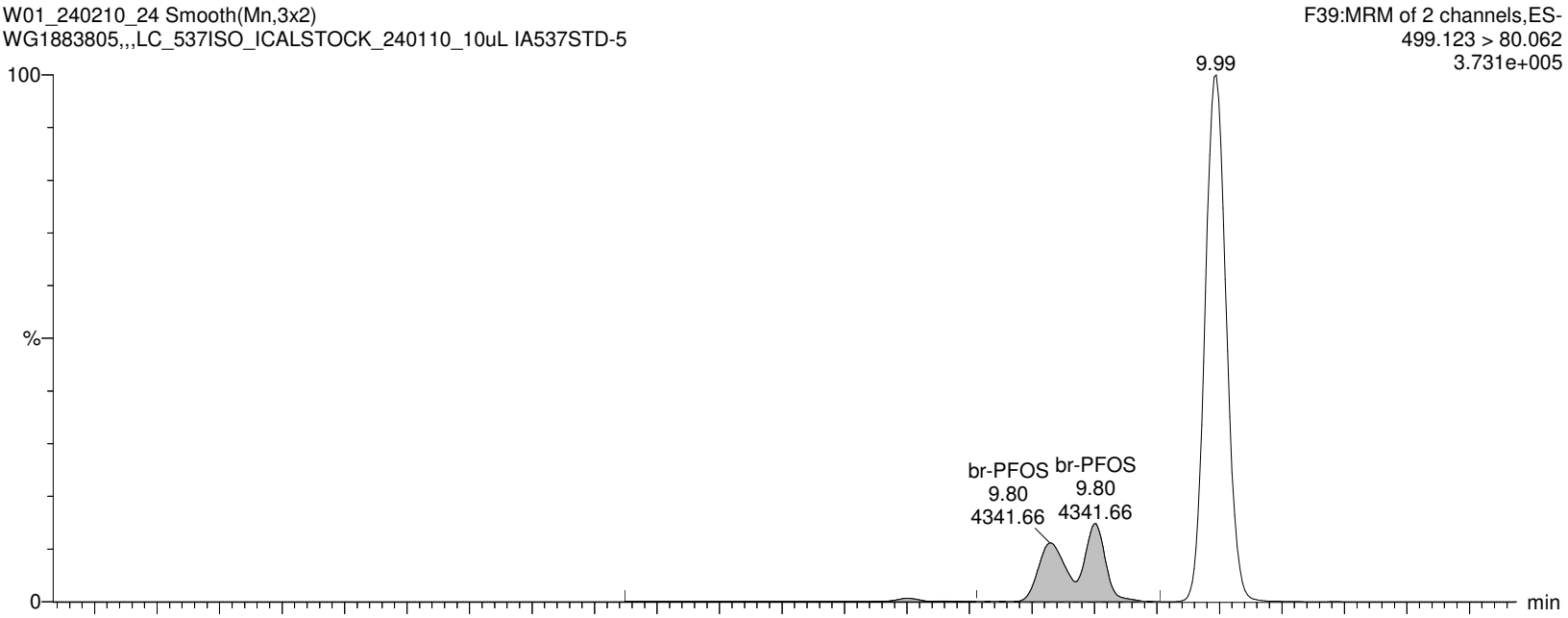

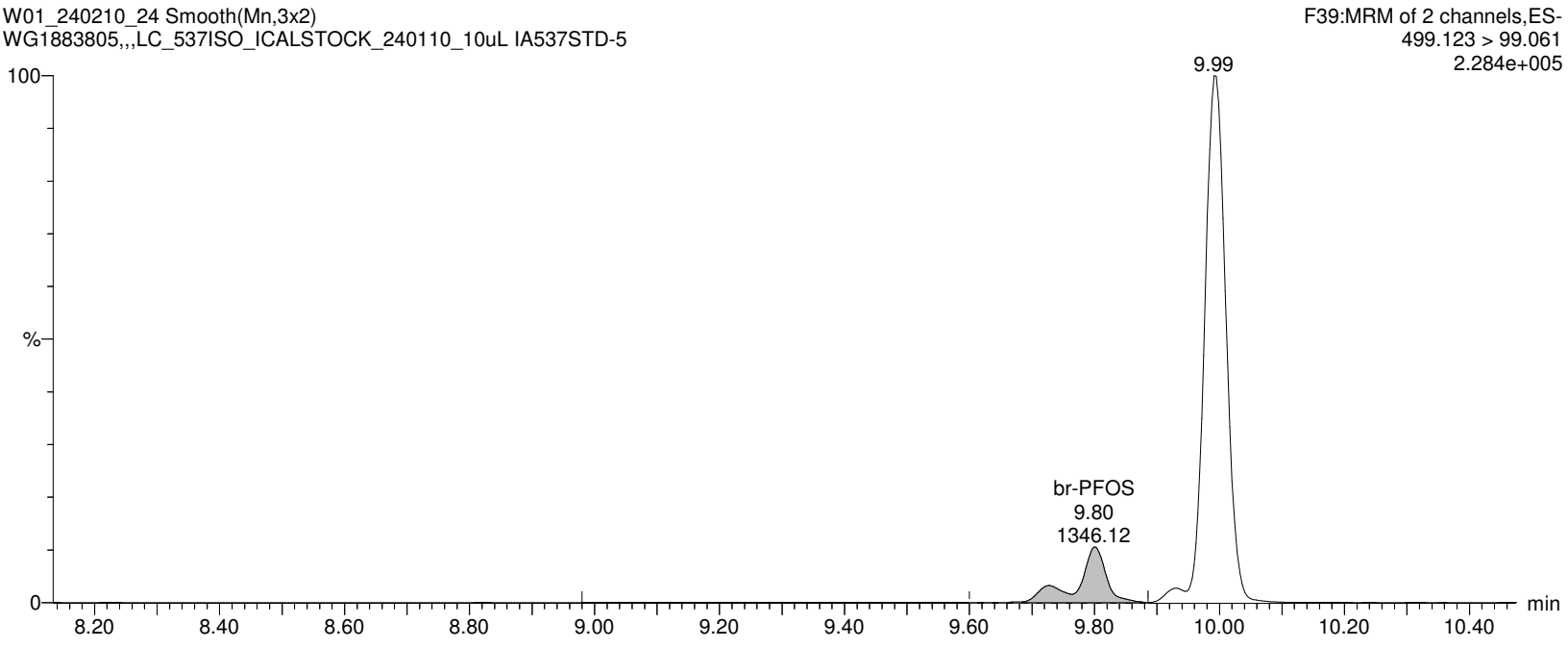

all concentration units in (ng/mL)

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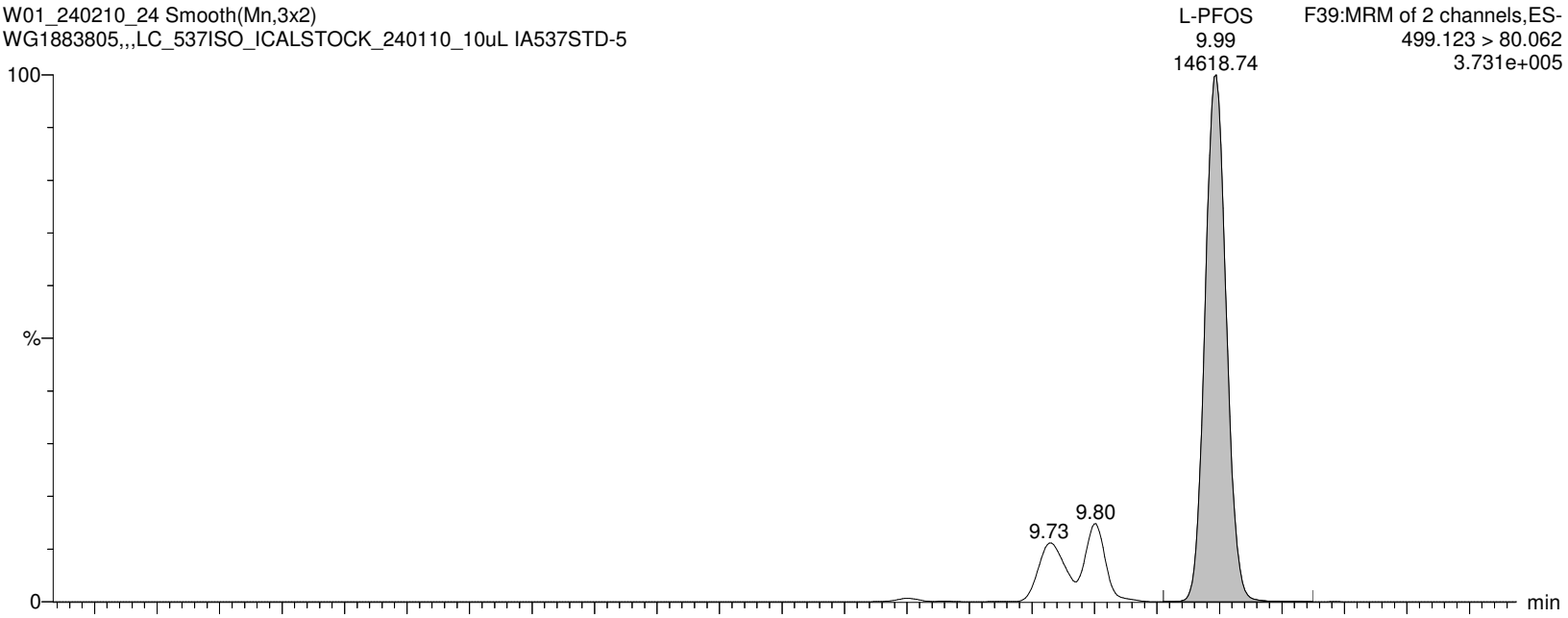

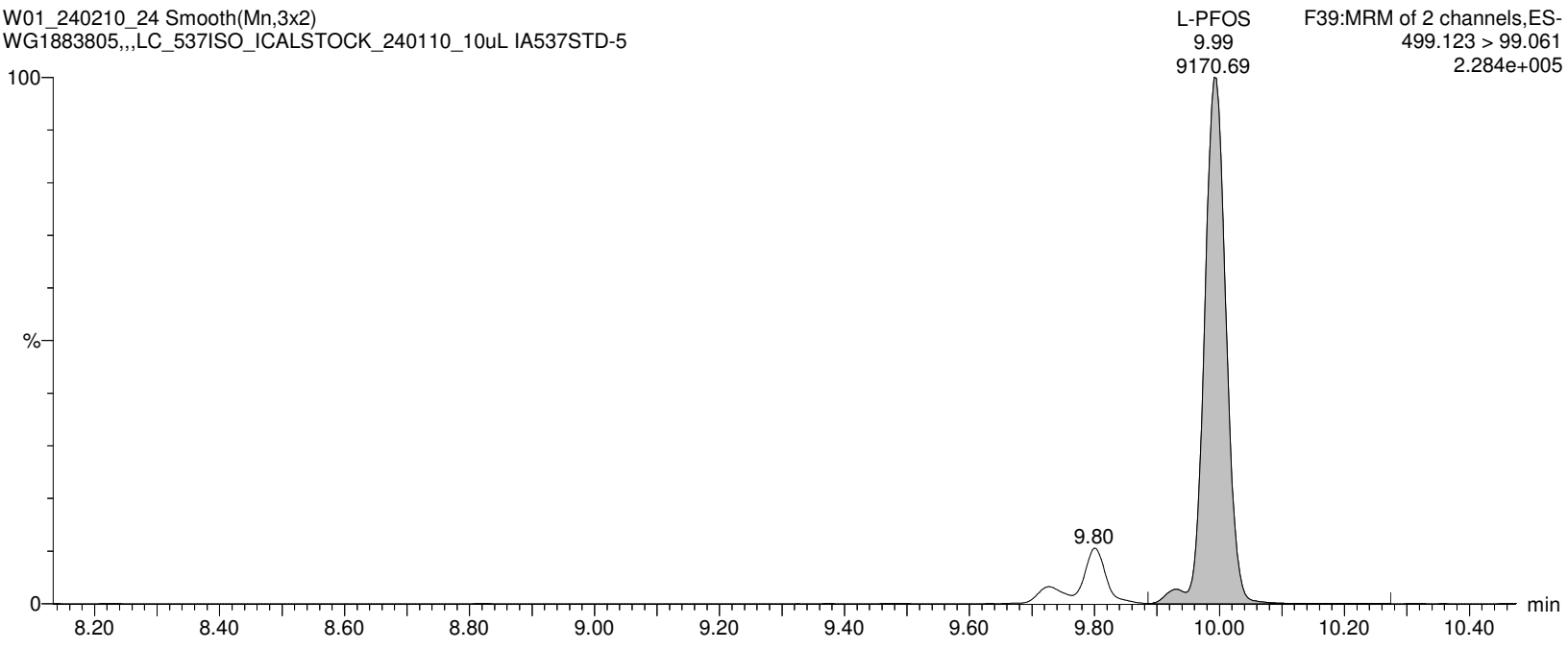

all concentration units in (ng/mL)

Alpha Analytical Inc.
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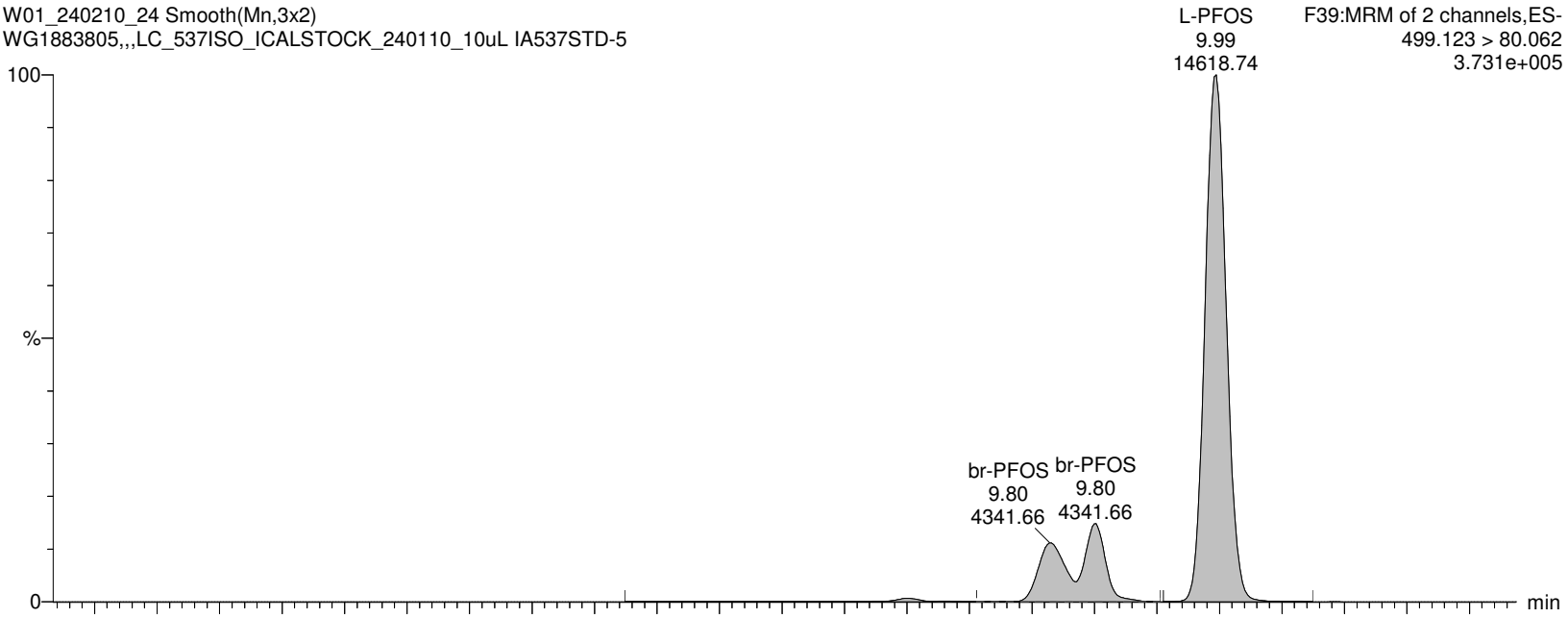

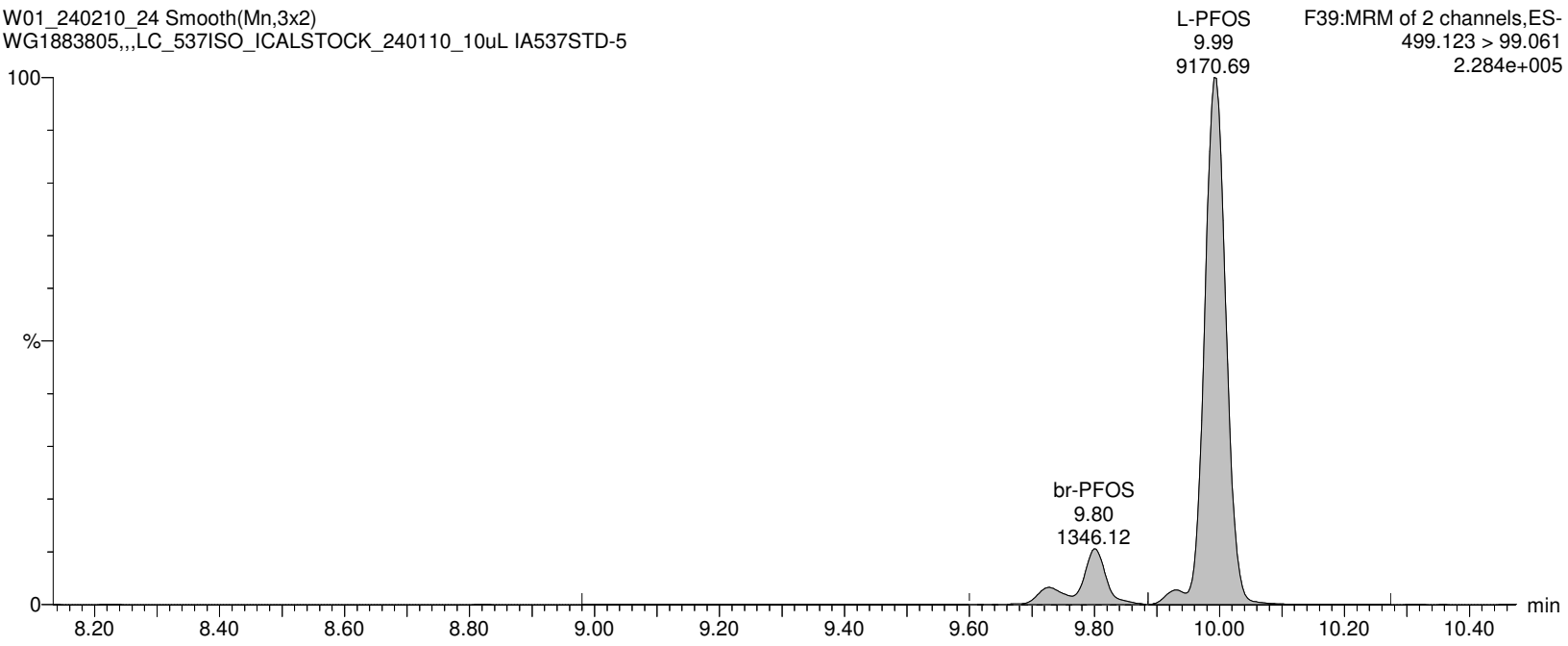

all concentration units in (ng/mL)

Alpha Analytical Inc.
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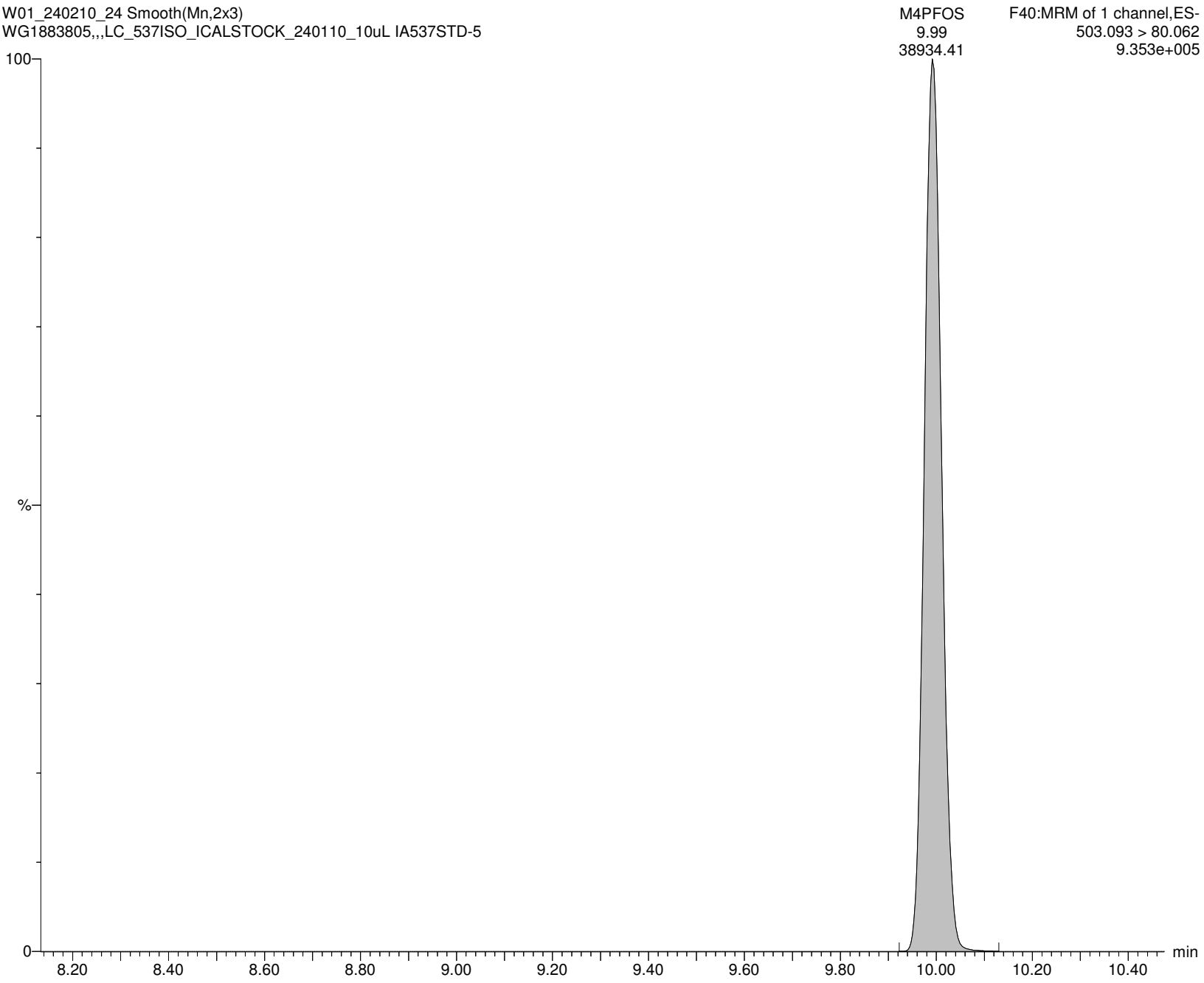

all concentration units in (ng/mL)

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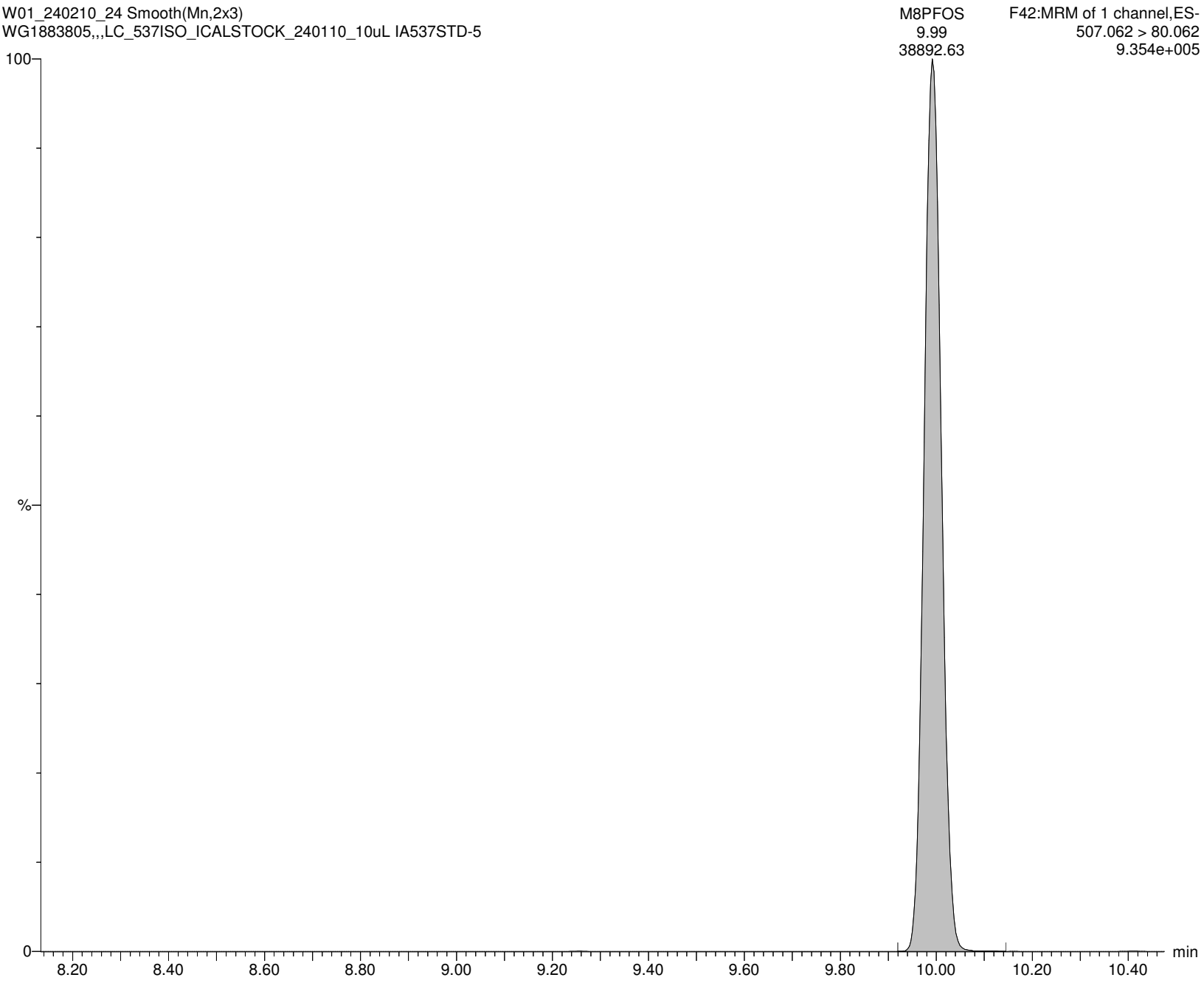

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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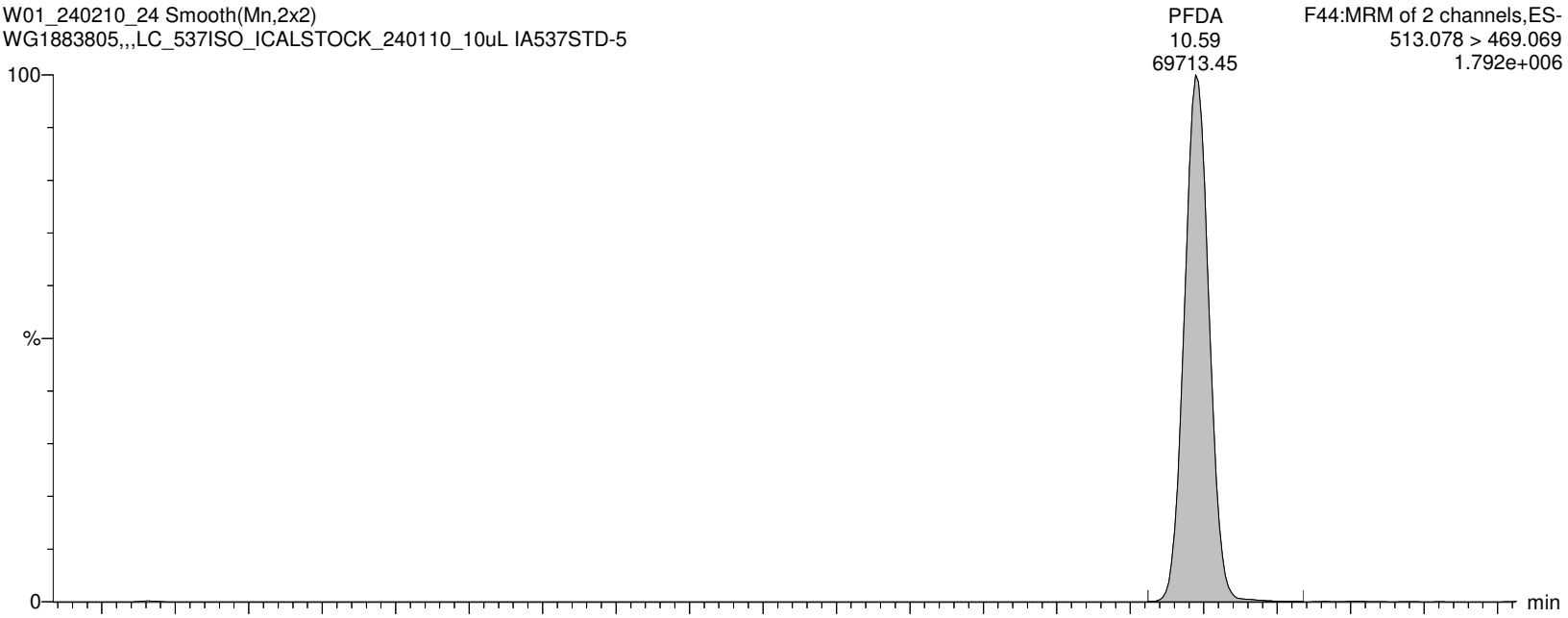

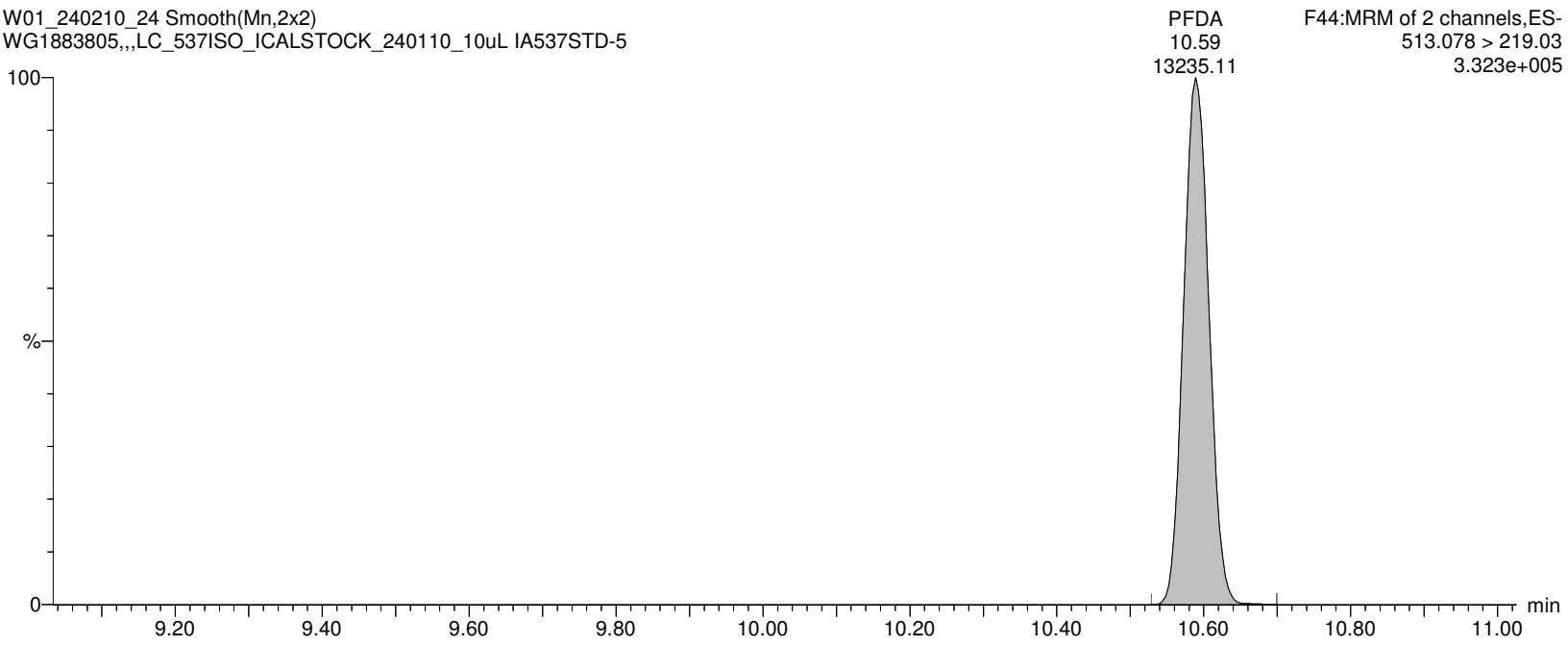

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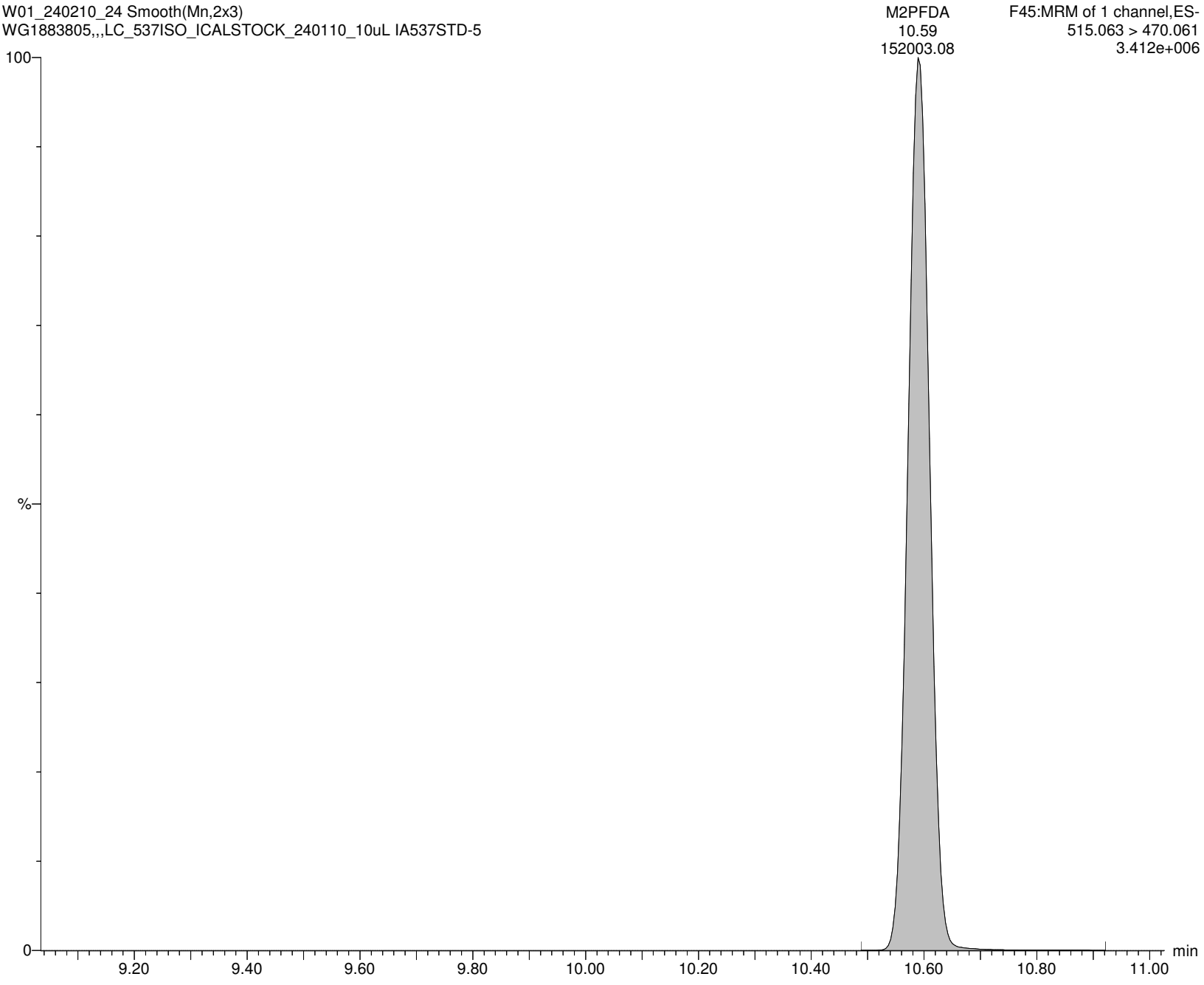
M2PFDA



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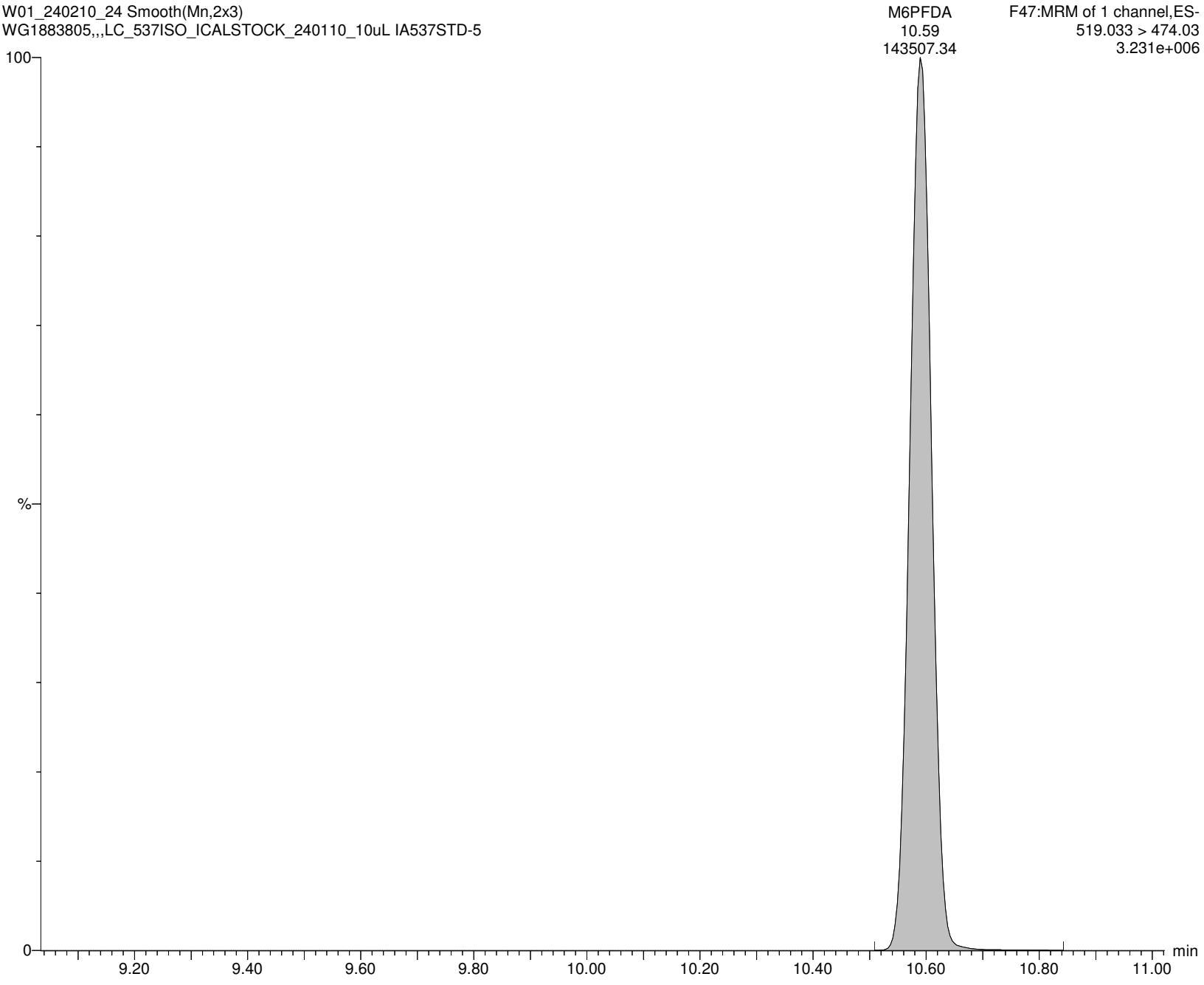

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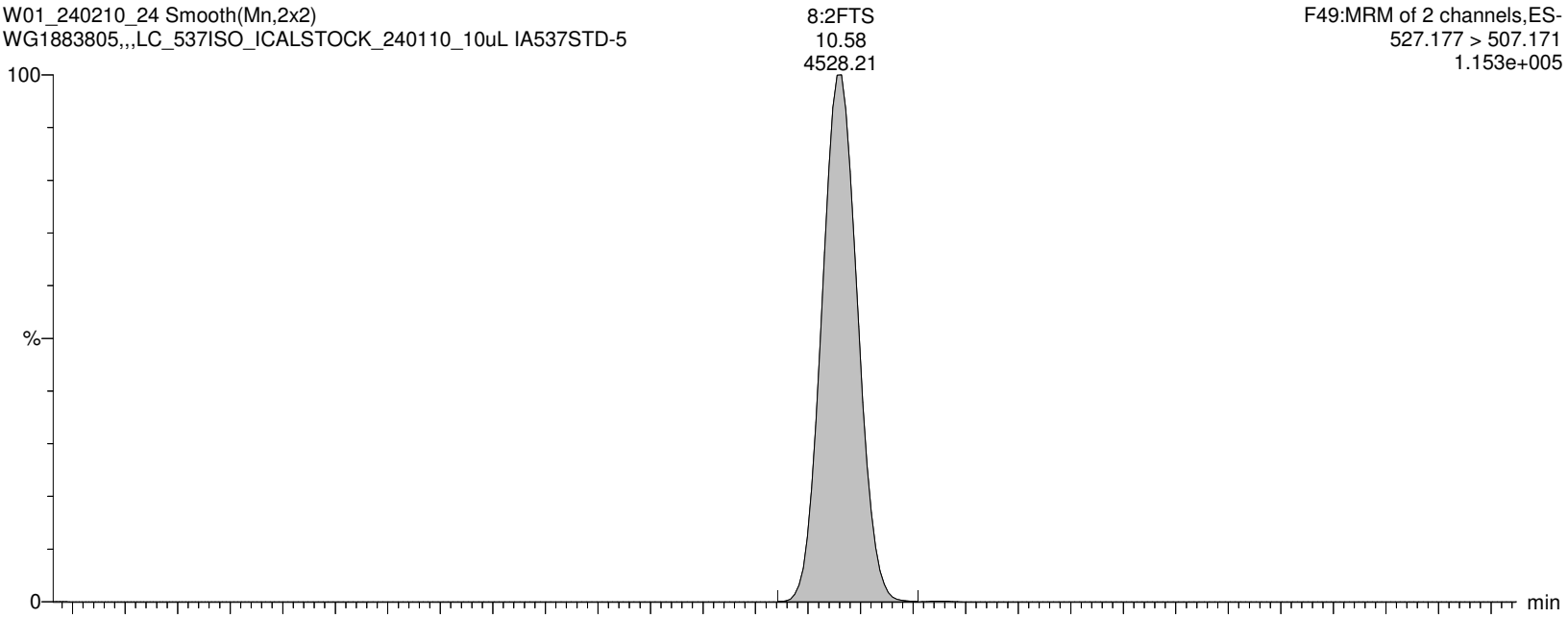
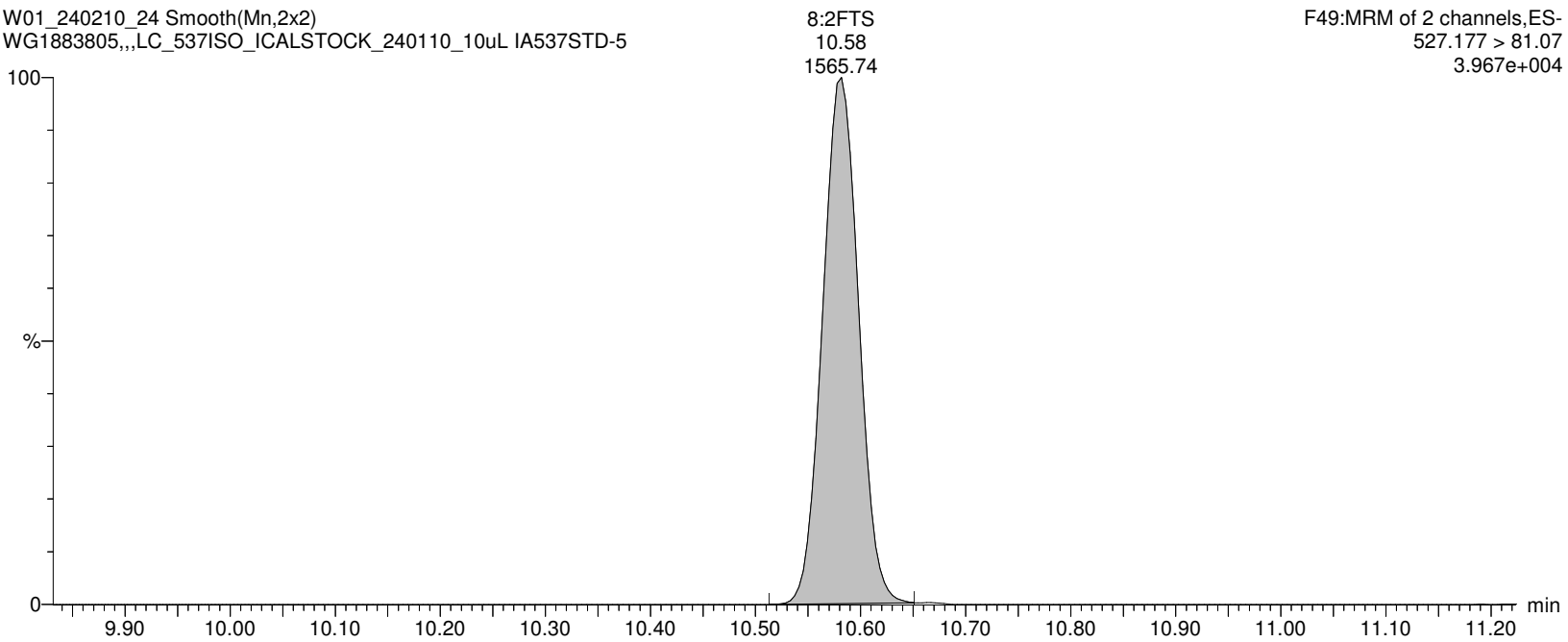
8:2FTS





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User: LCMS01:SG
Vial: 1:B,4
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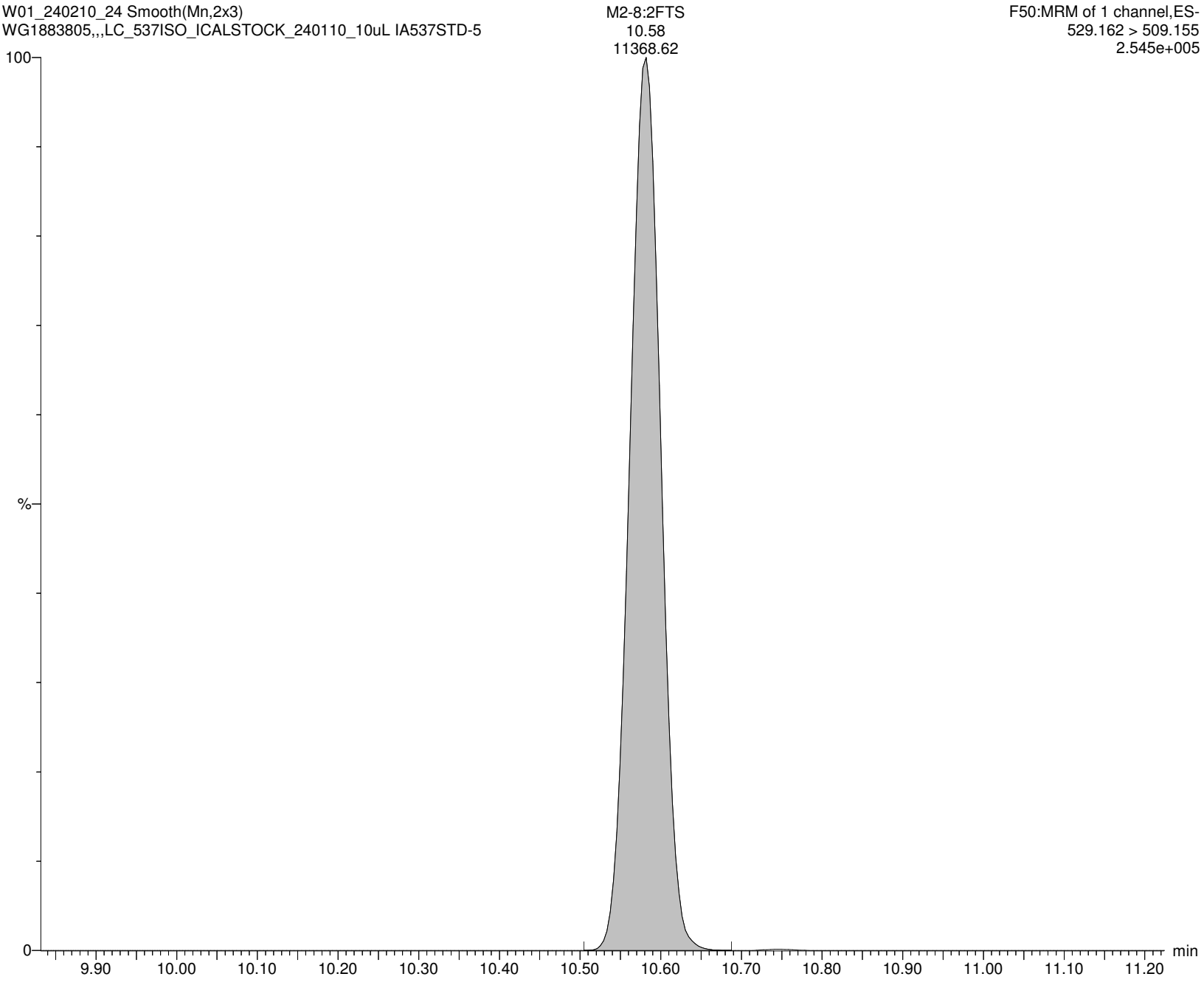

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
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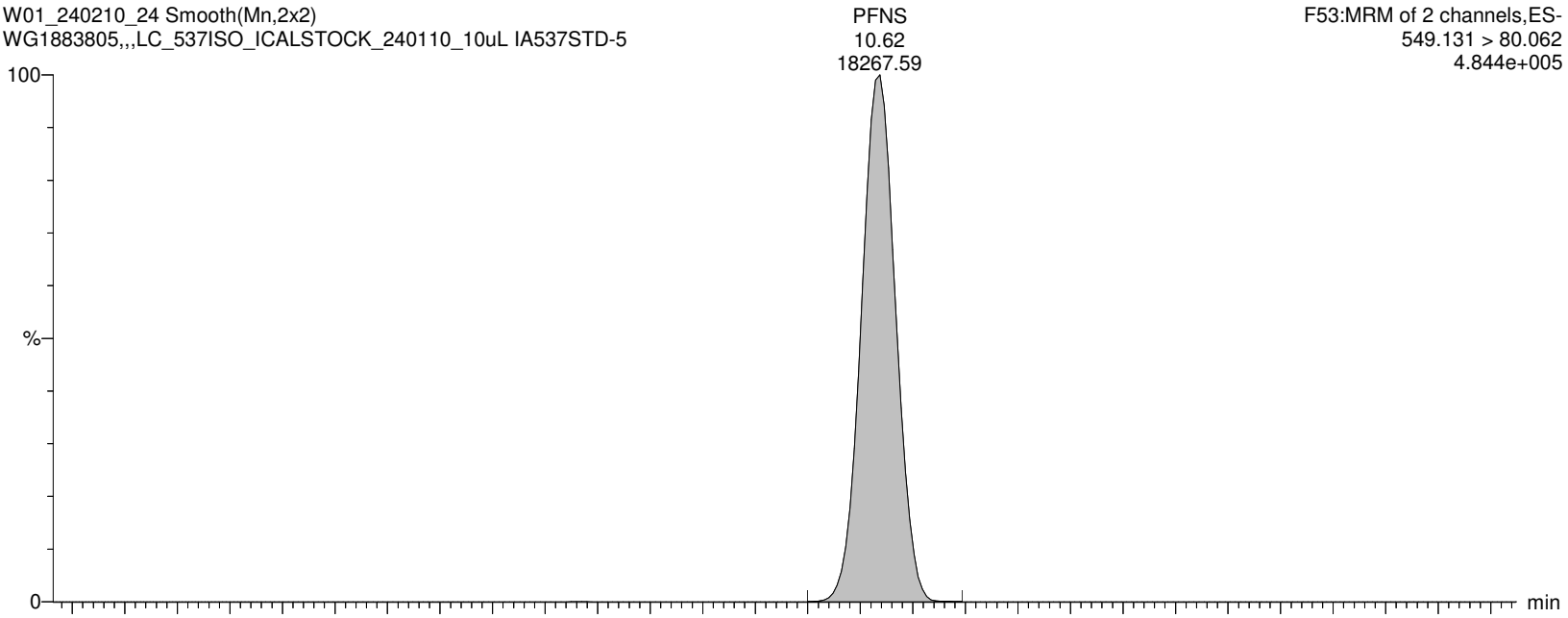

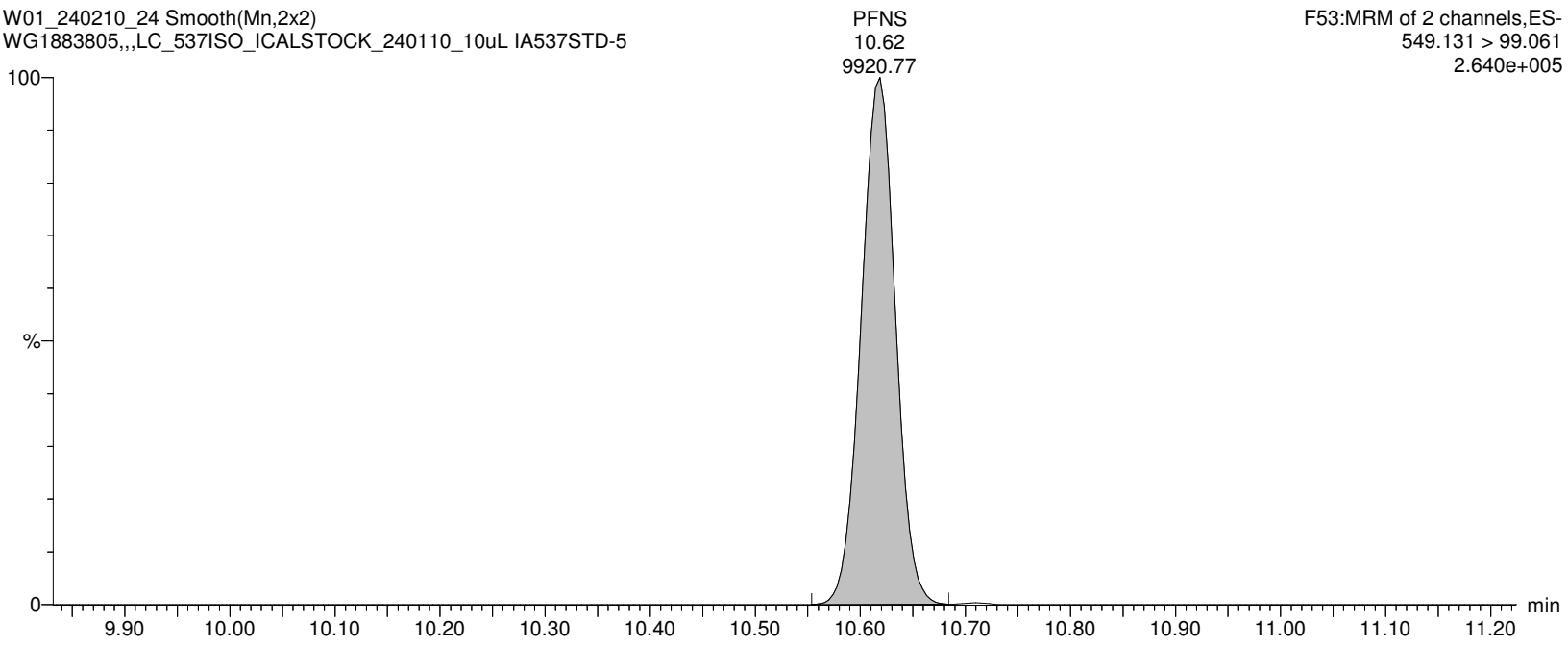

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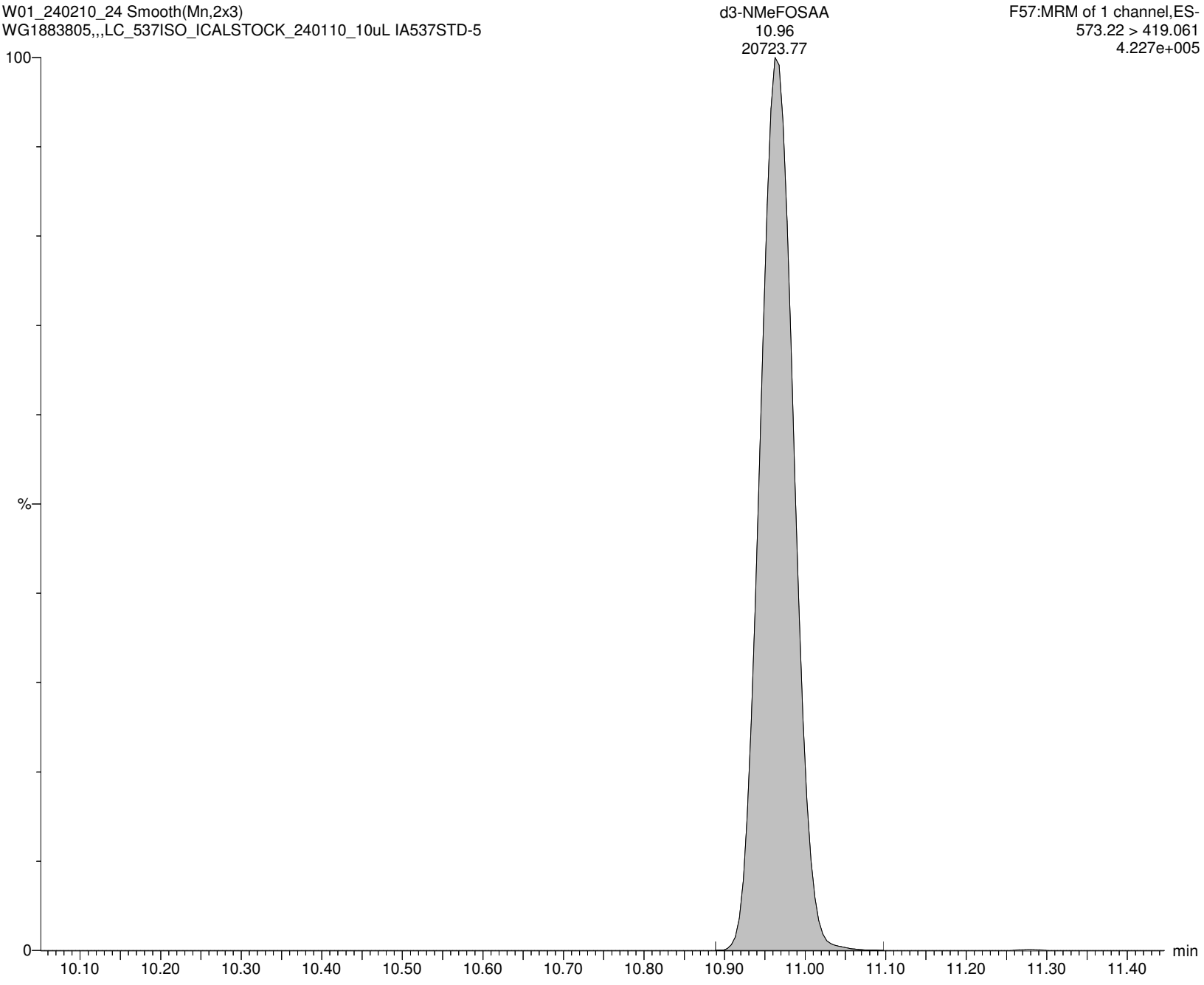

all concentration units in (ng/mL)

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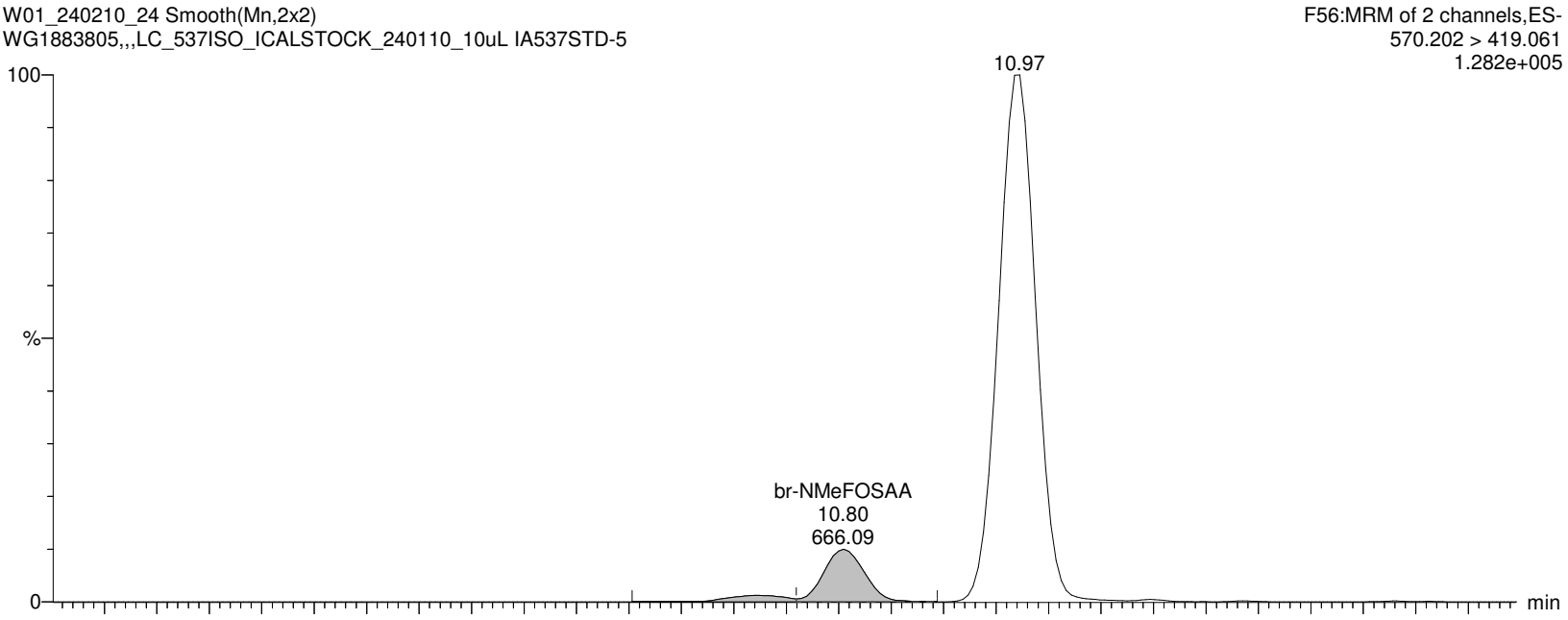
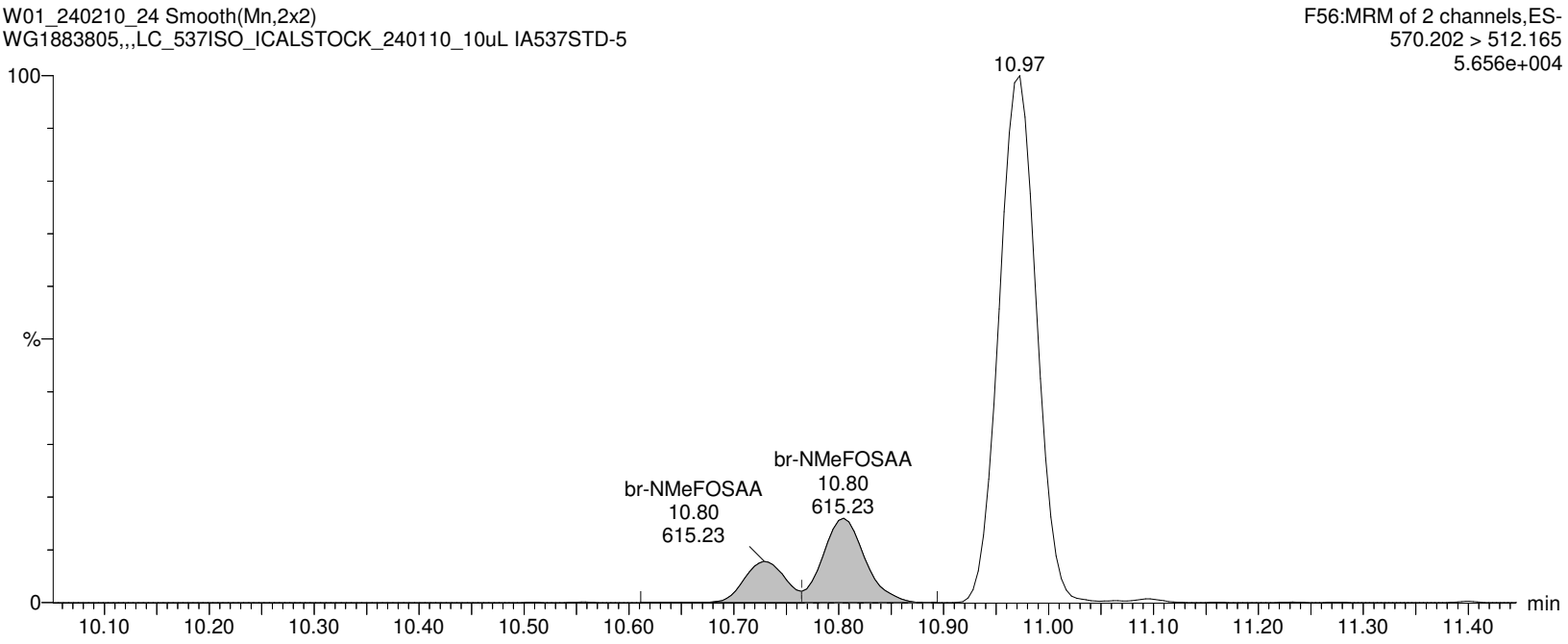
br-NMeFOSAA





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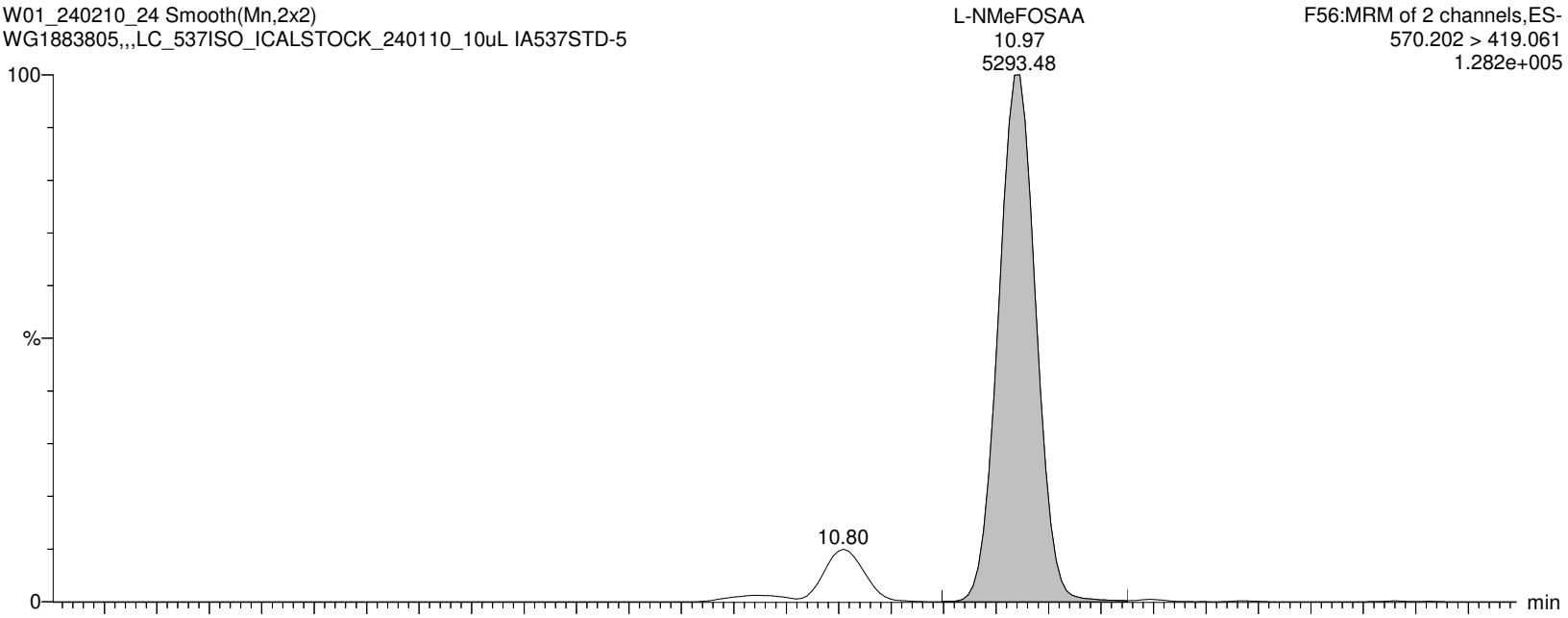
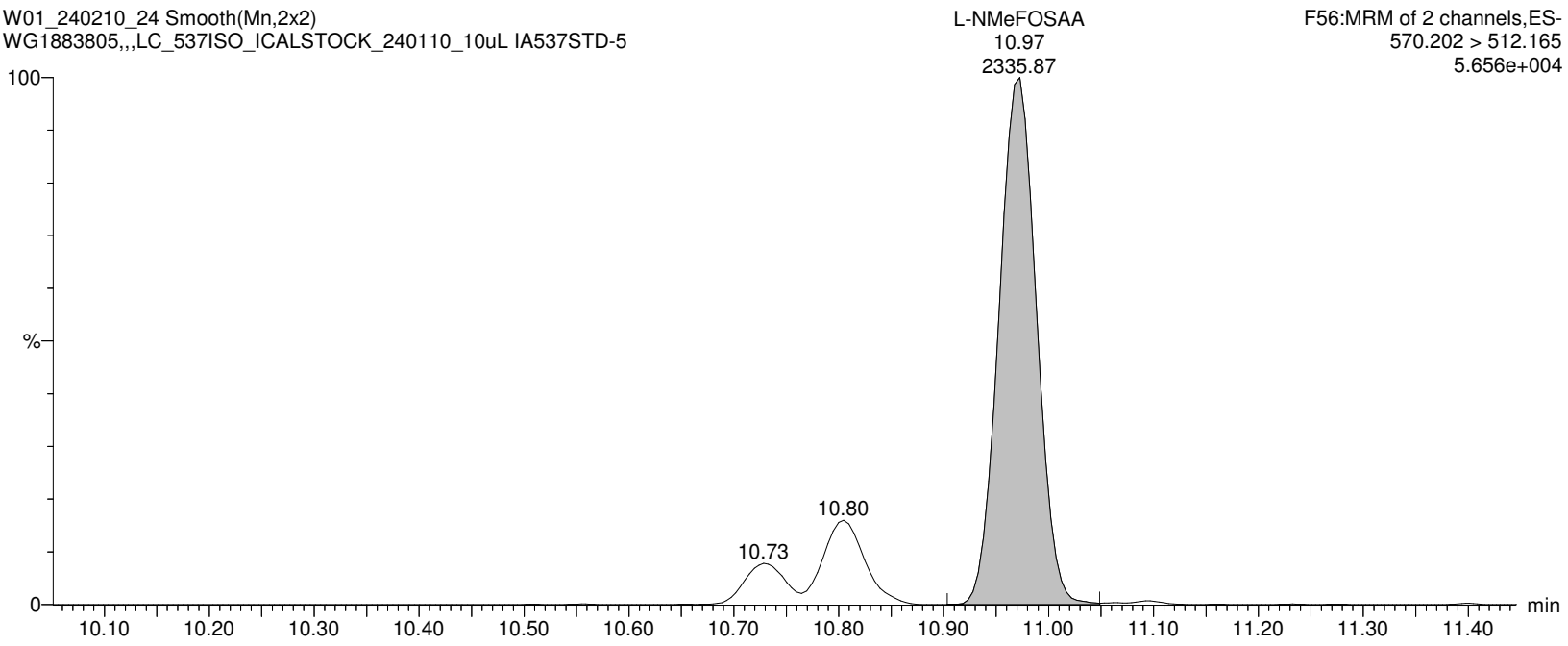
L-NMeFOSAA





all concentration units in (ng/mL)

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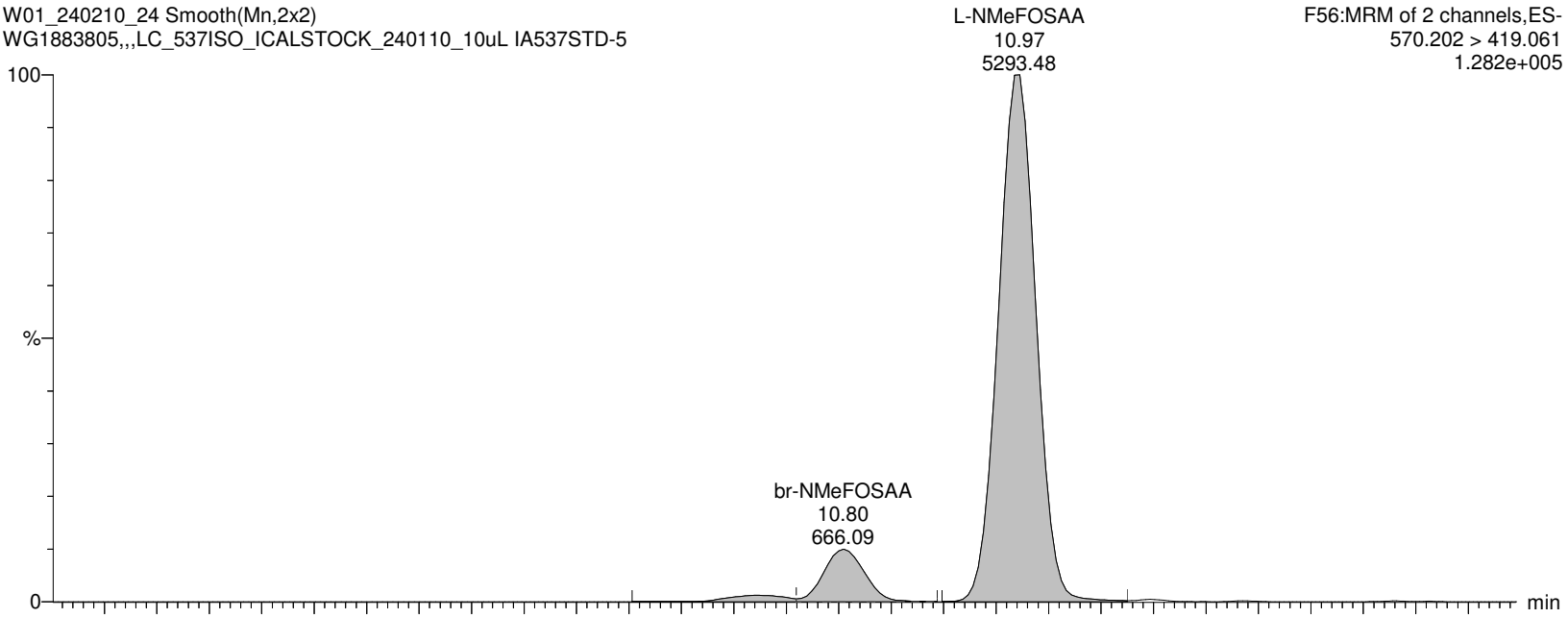

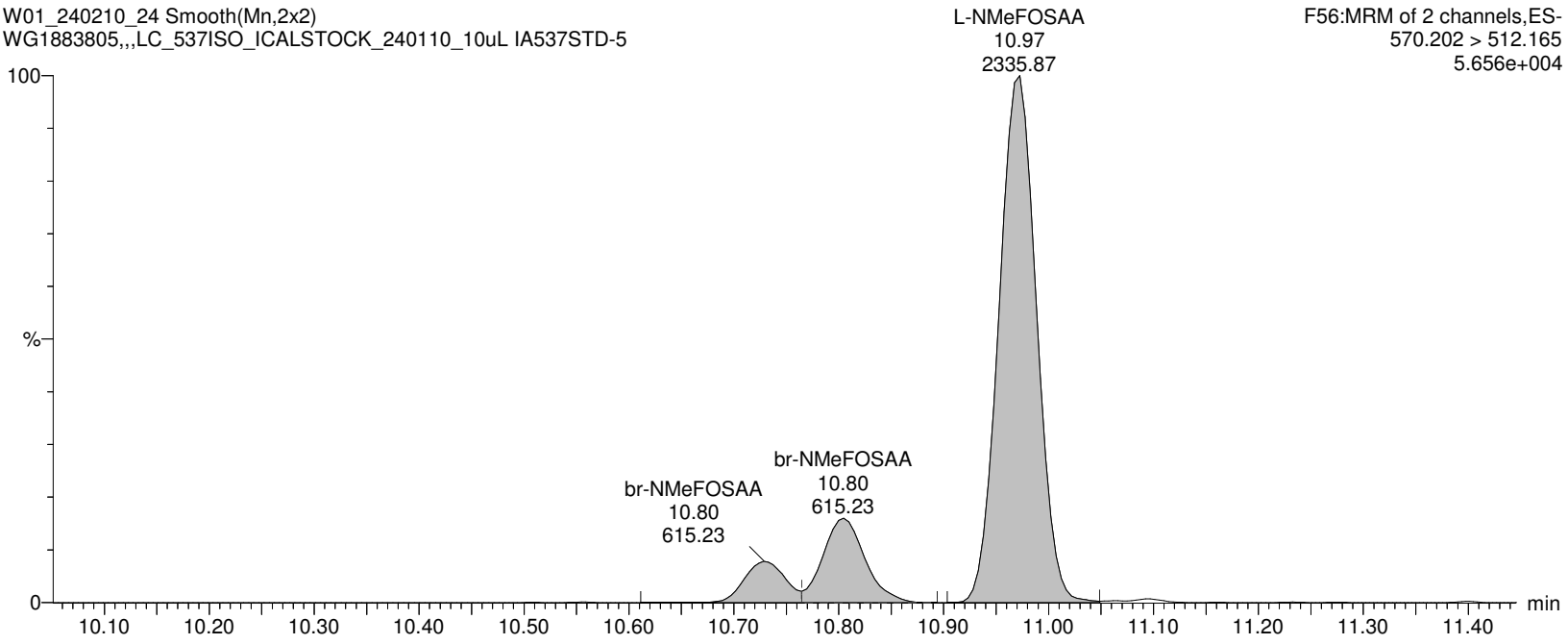

all concentration units in (ng/mL)

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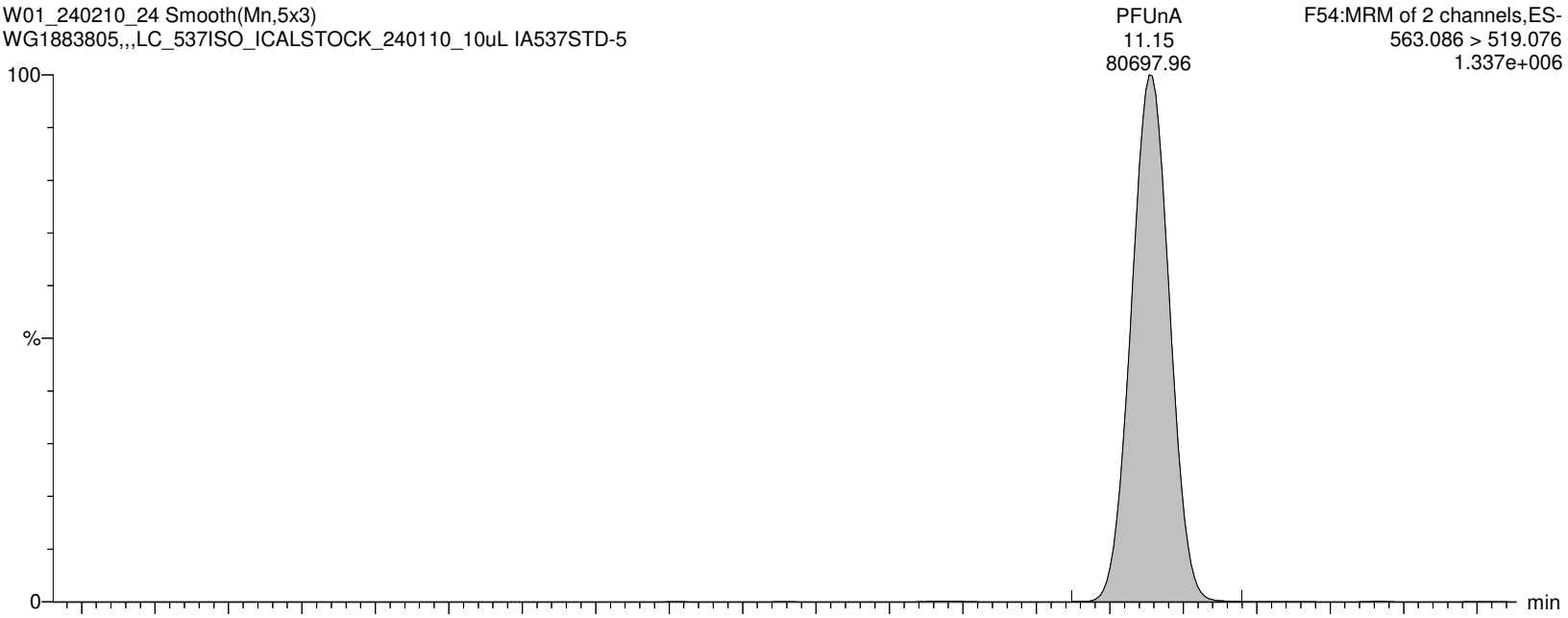

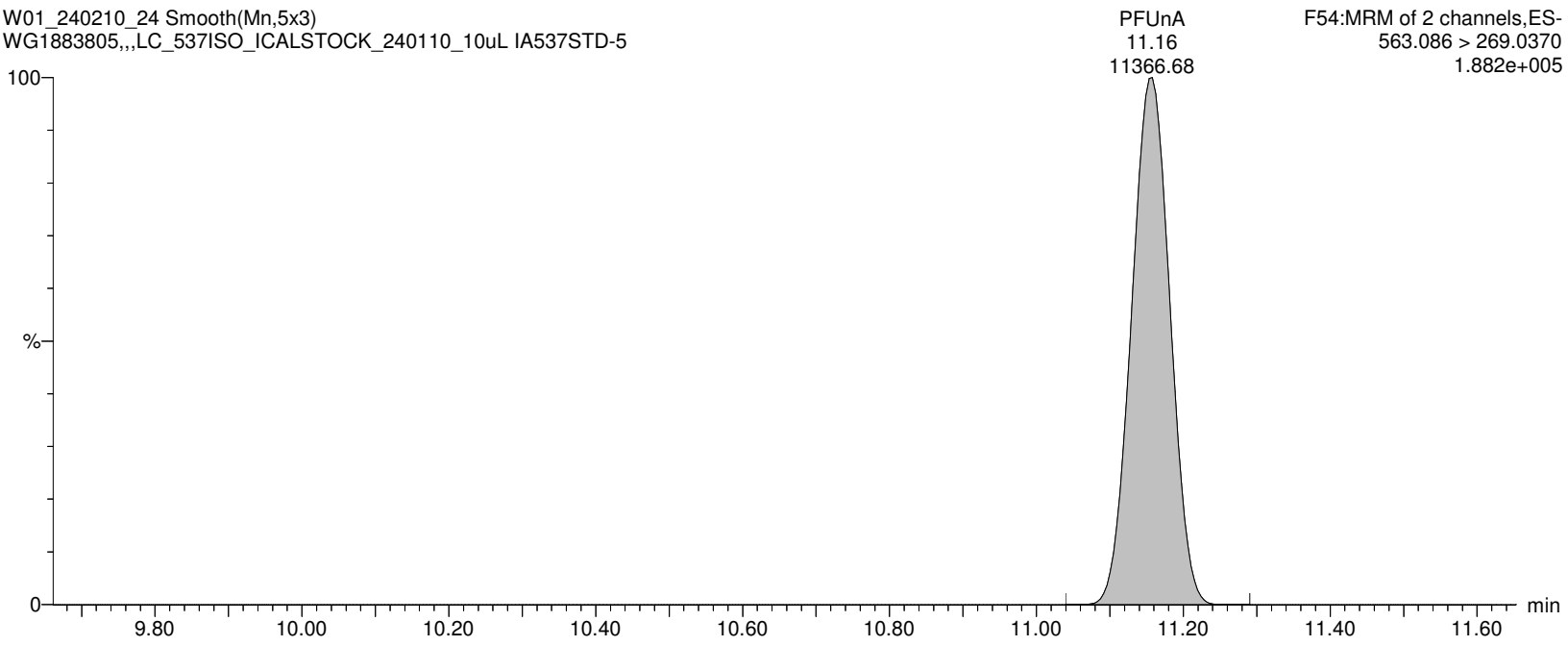

all concentration units in (ng/mL)

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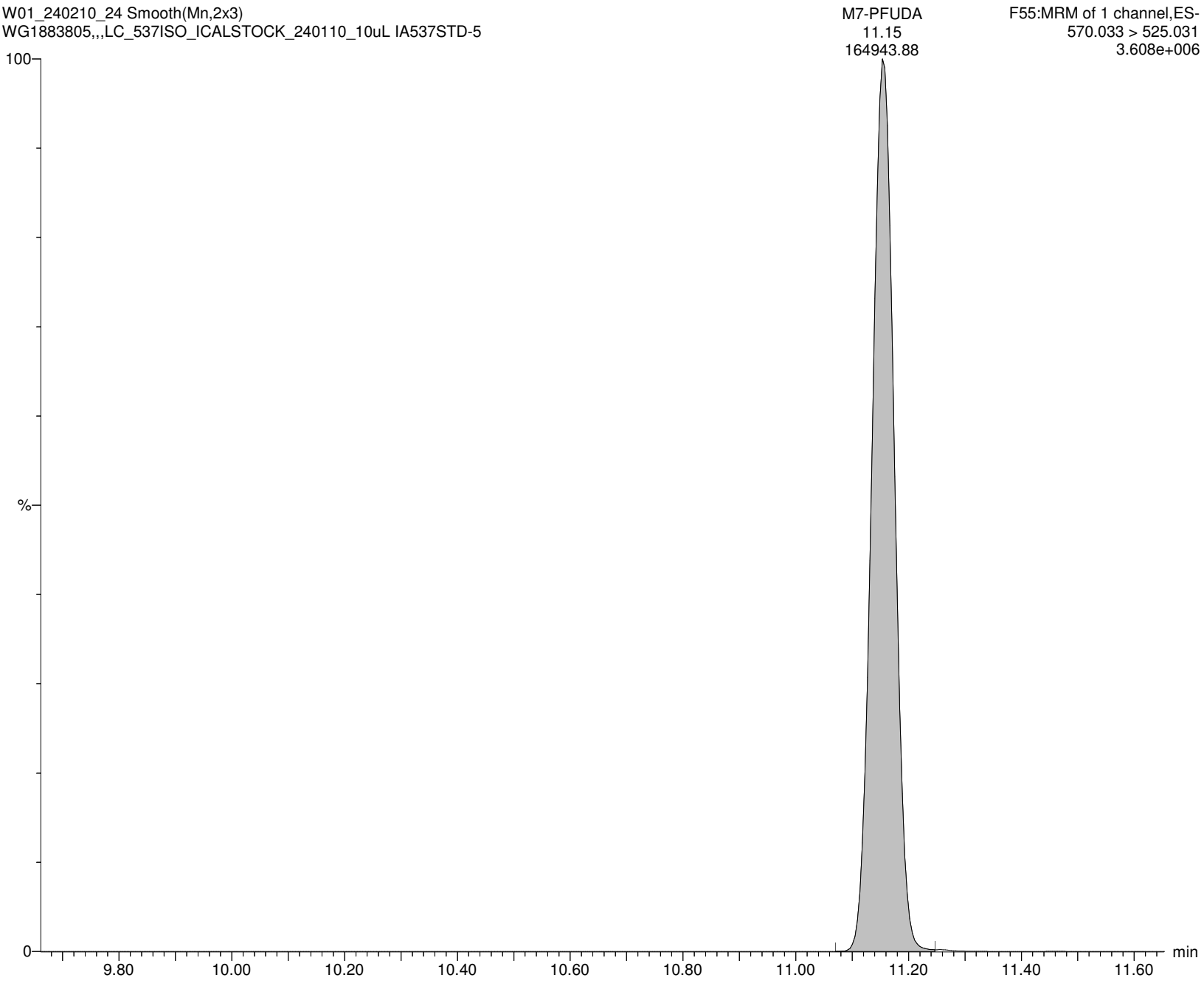

all concentration units in (ng/mL)

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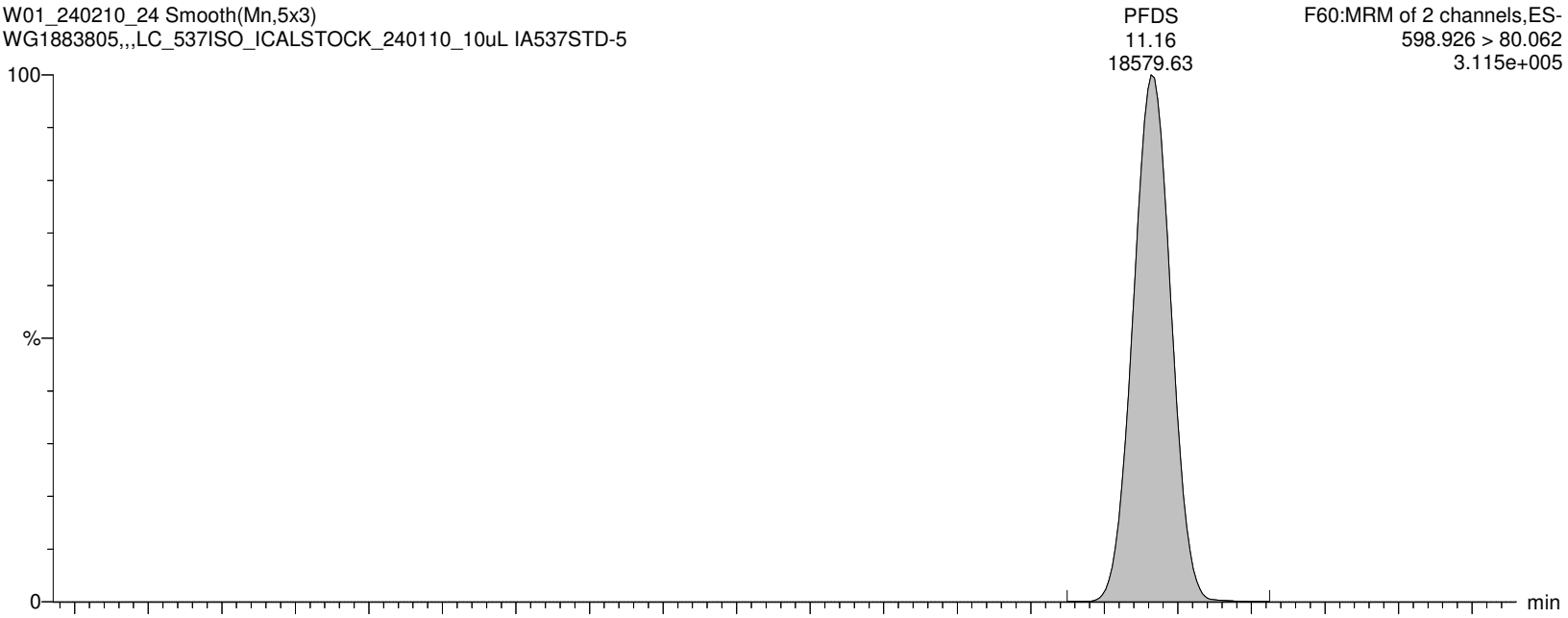

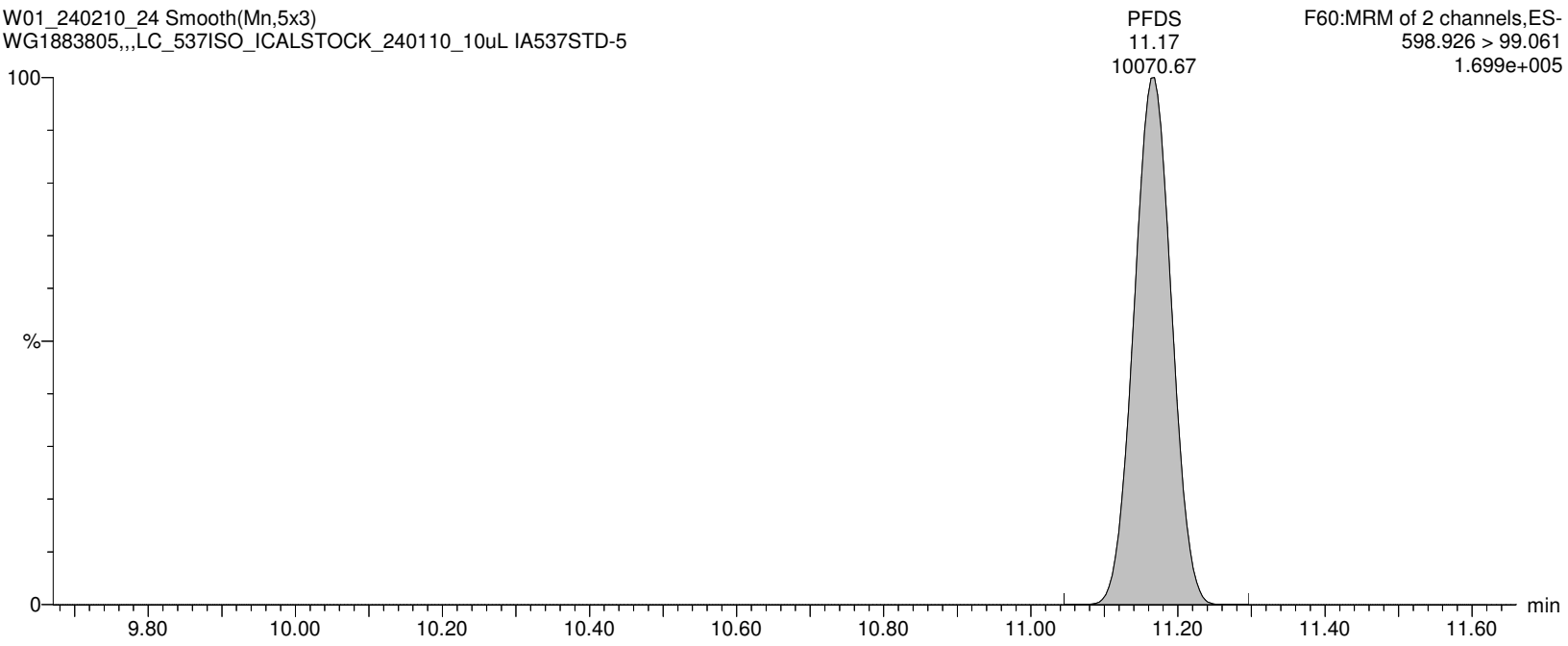

all concentration units in (ng/mL)

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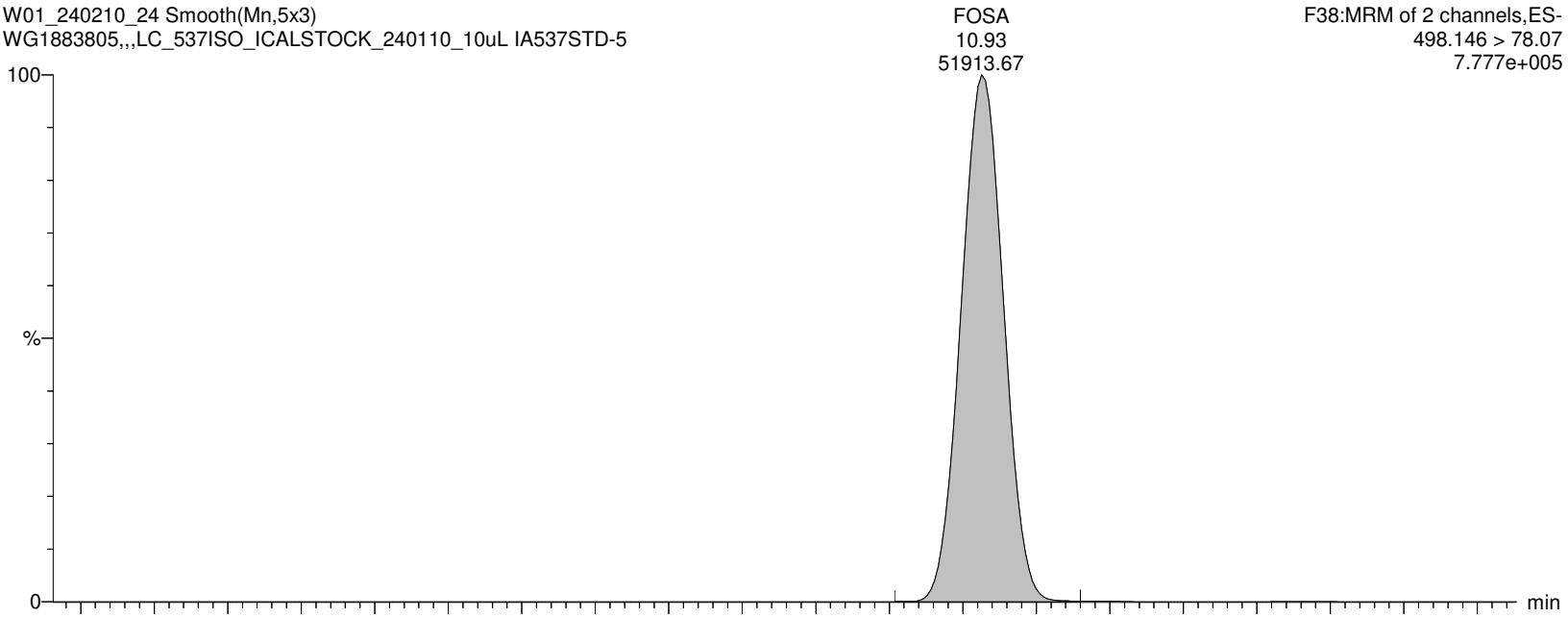

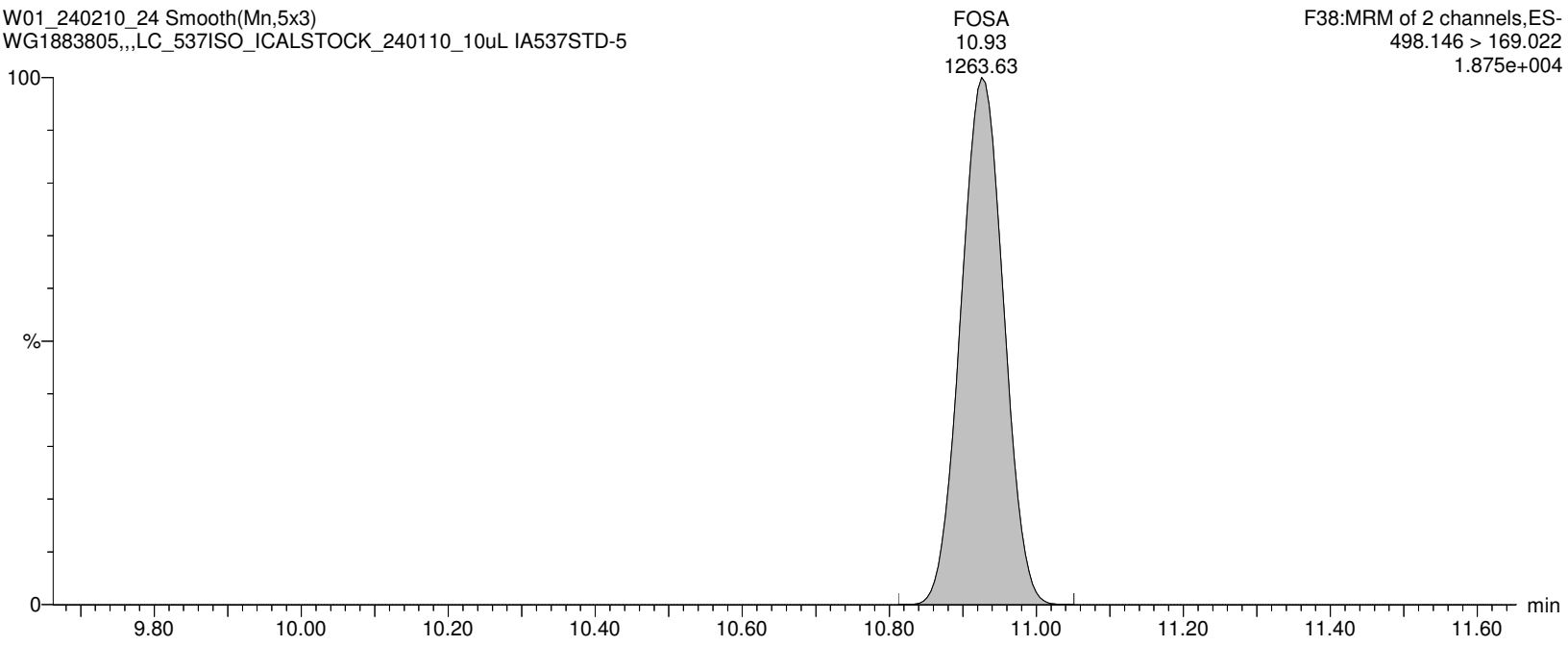

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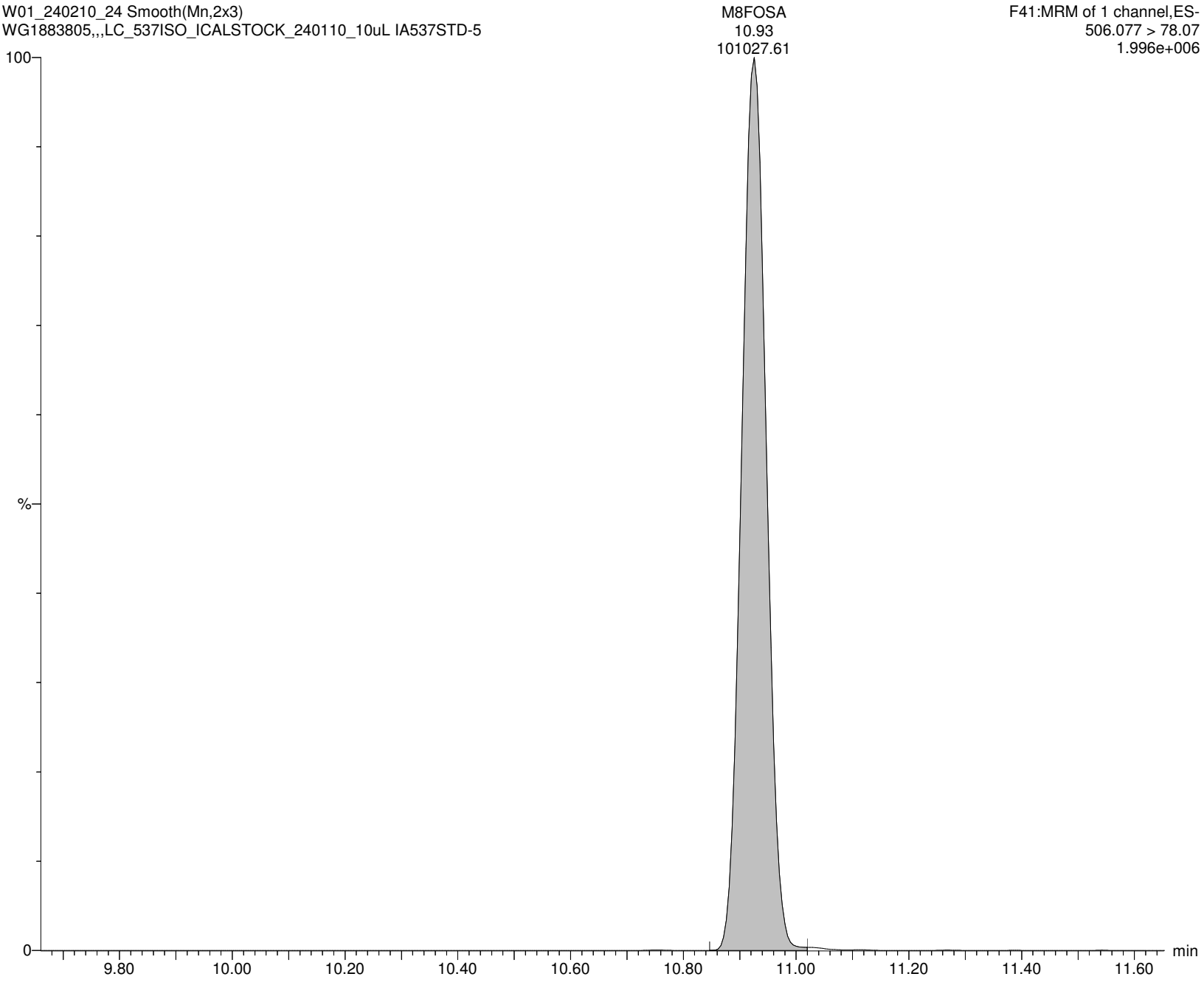
M8FOSA



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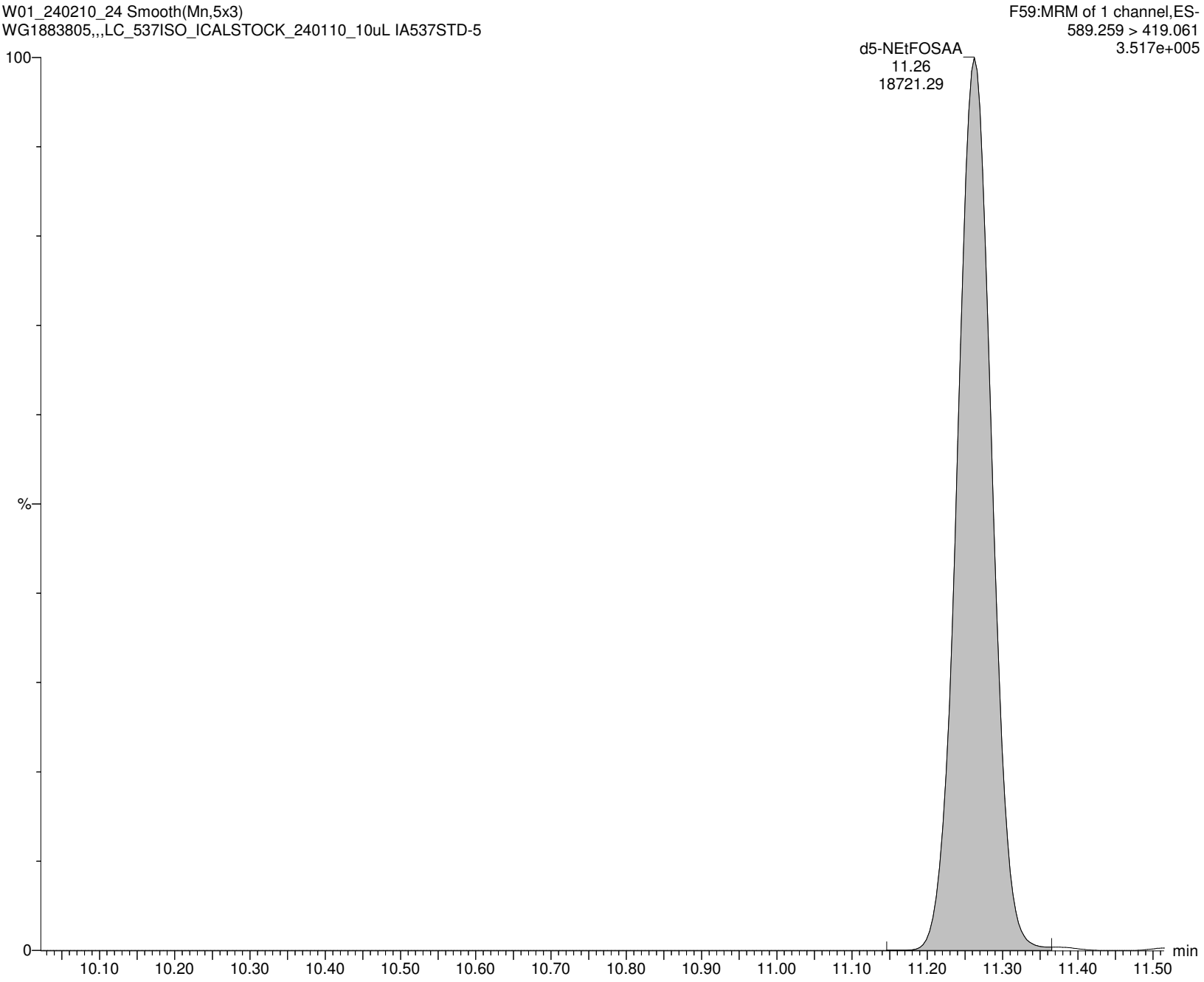

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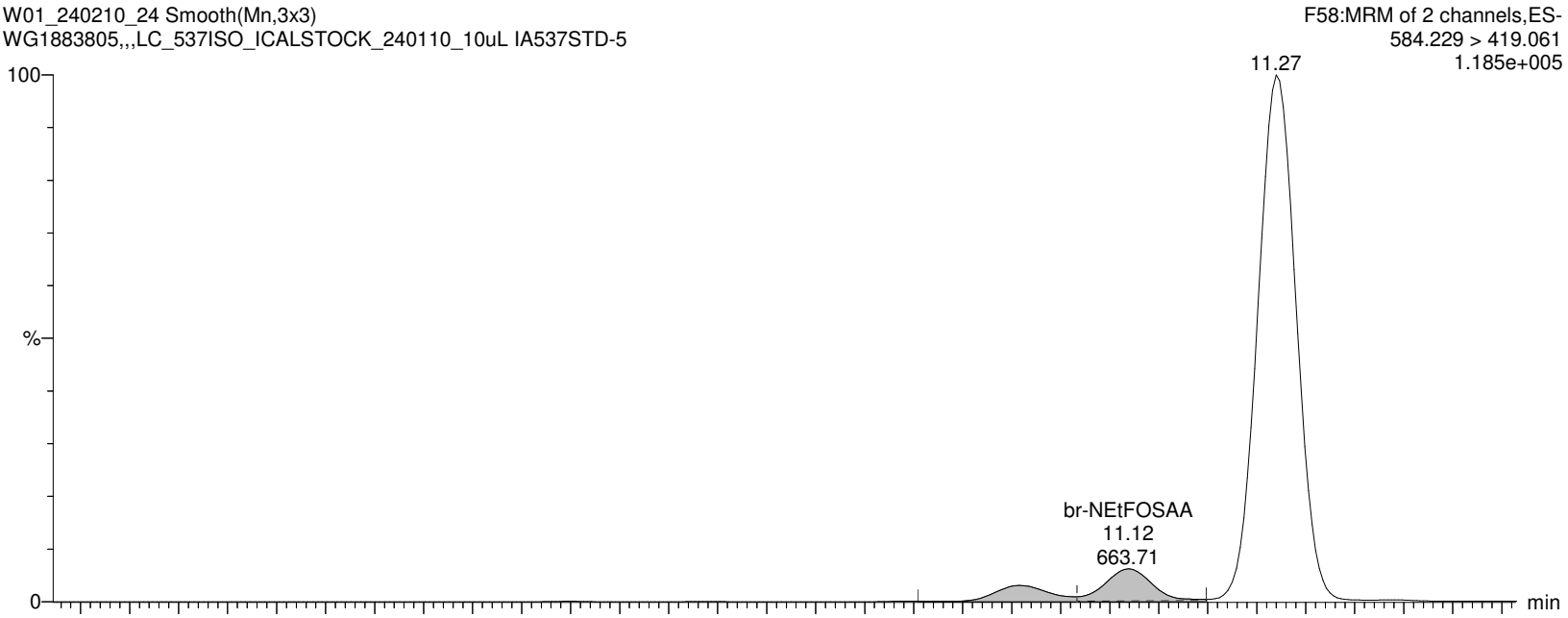

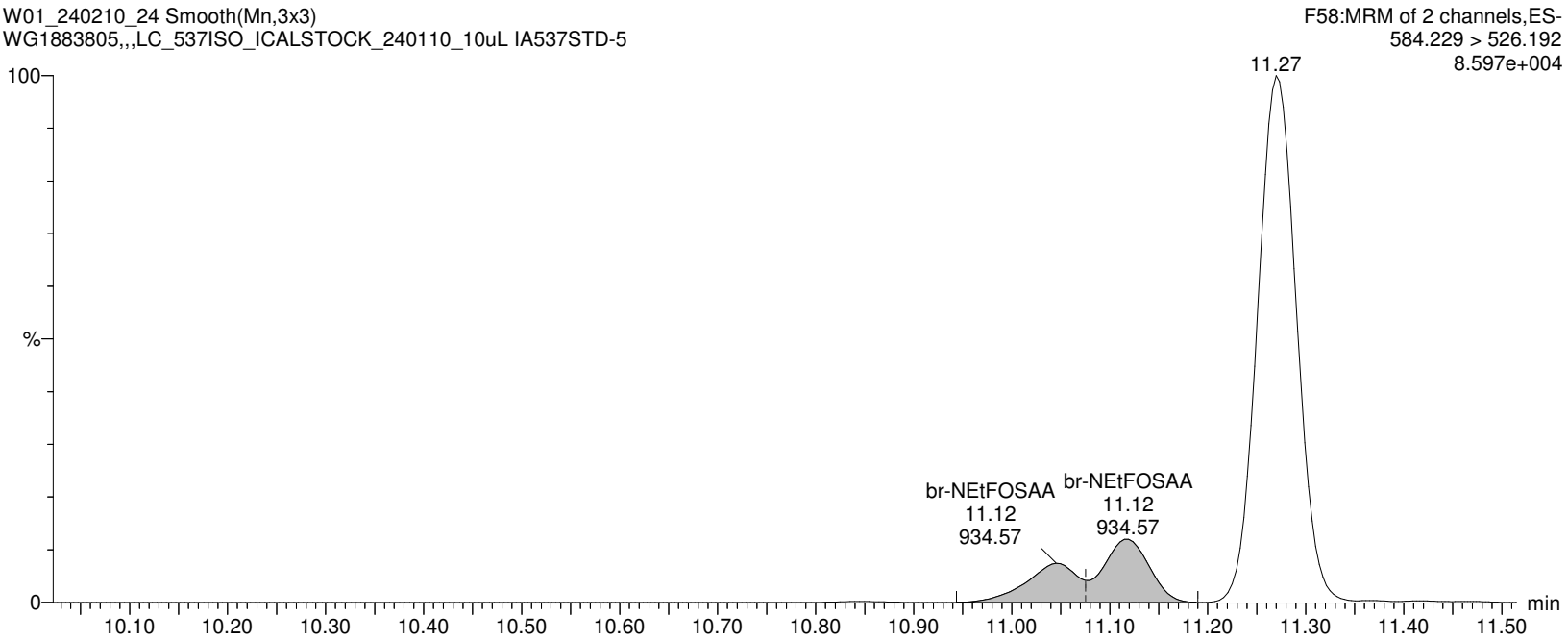

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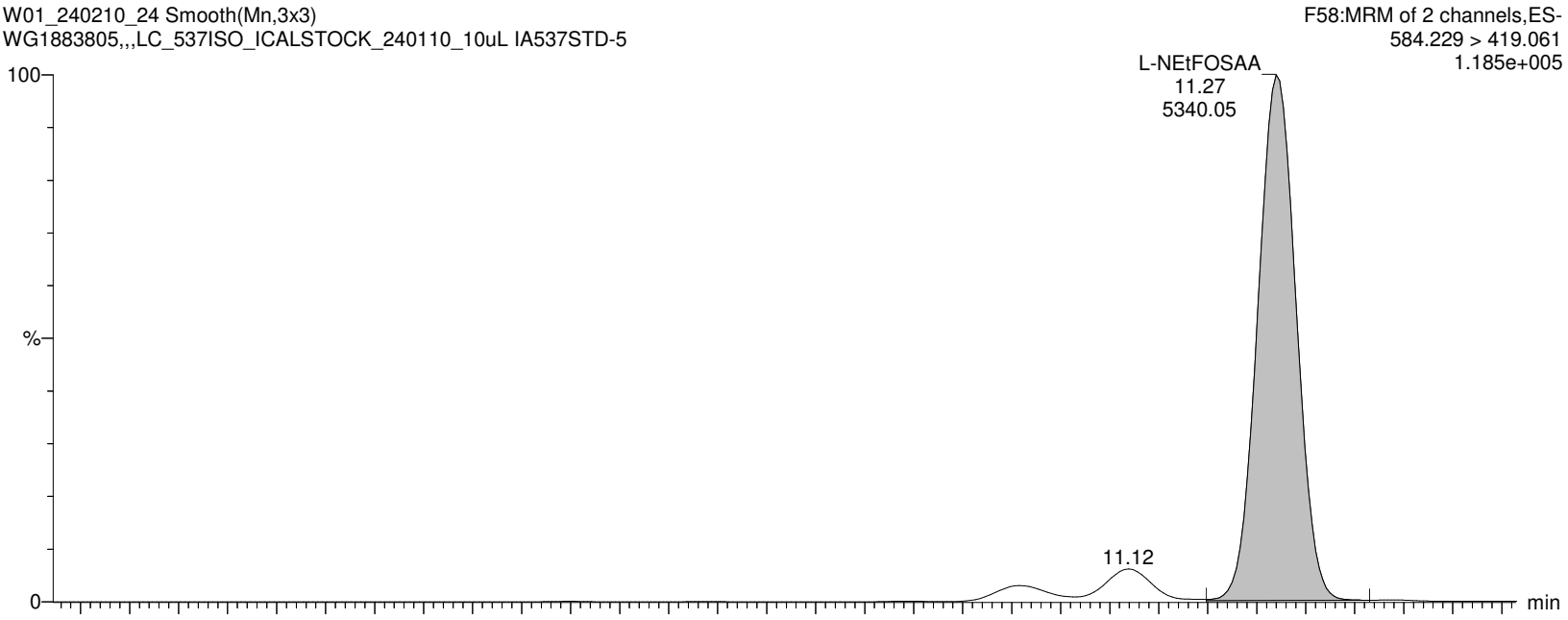
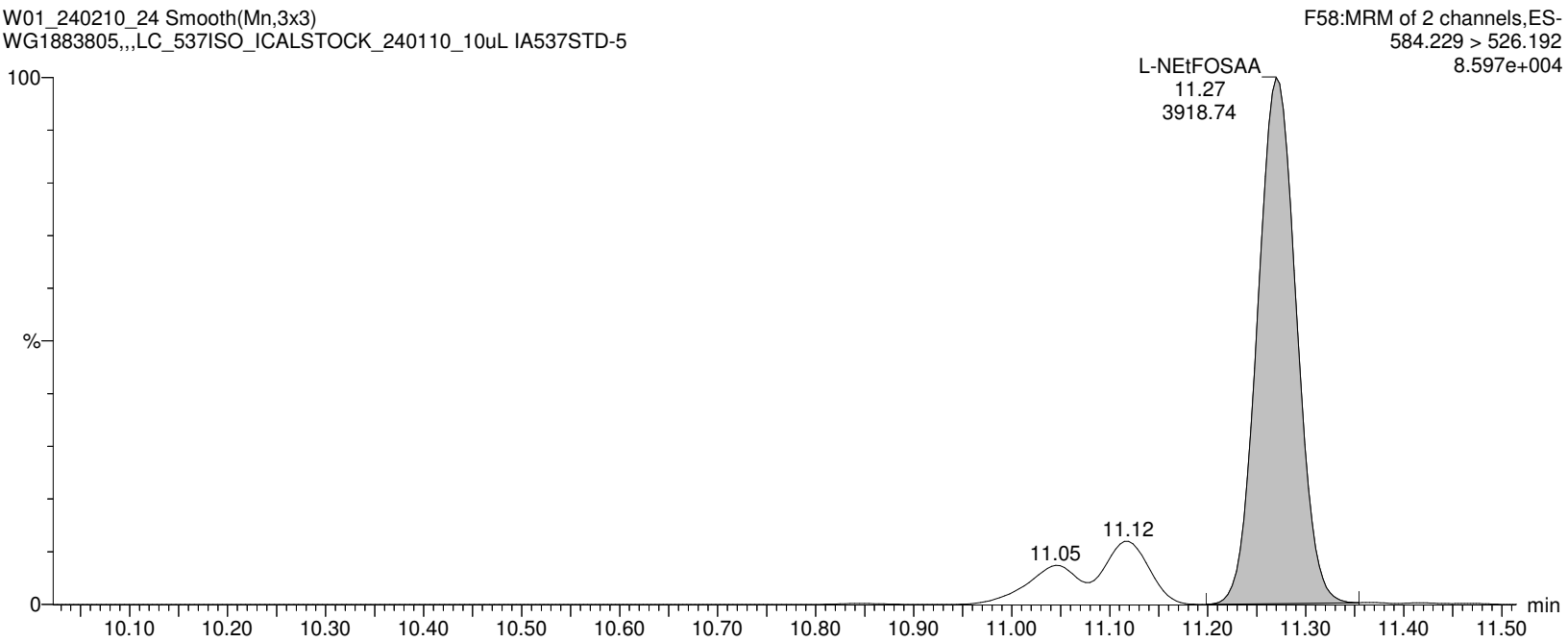
L-NEtFOSAA





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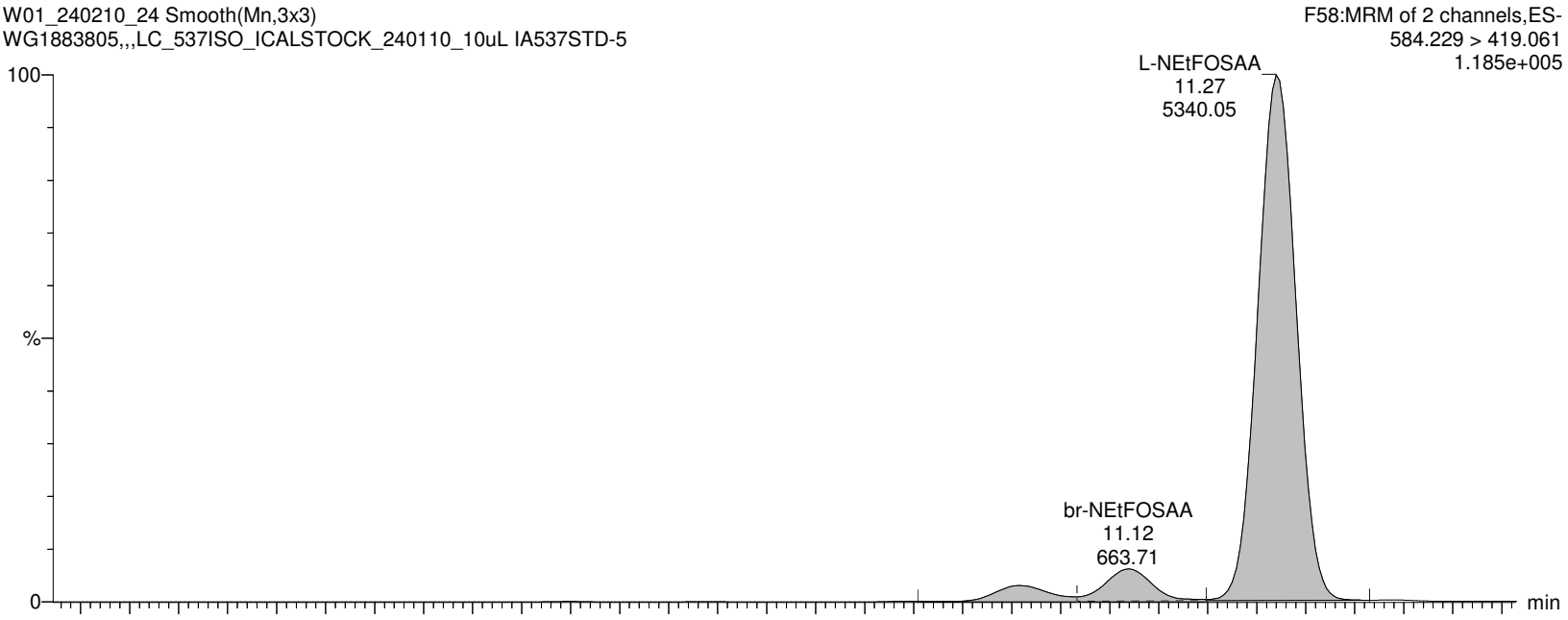

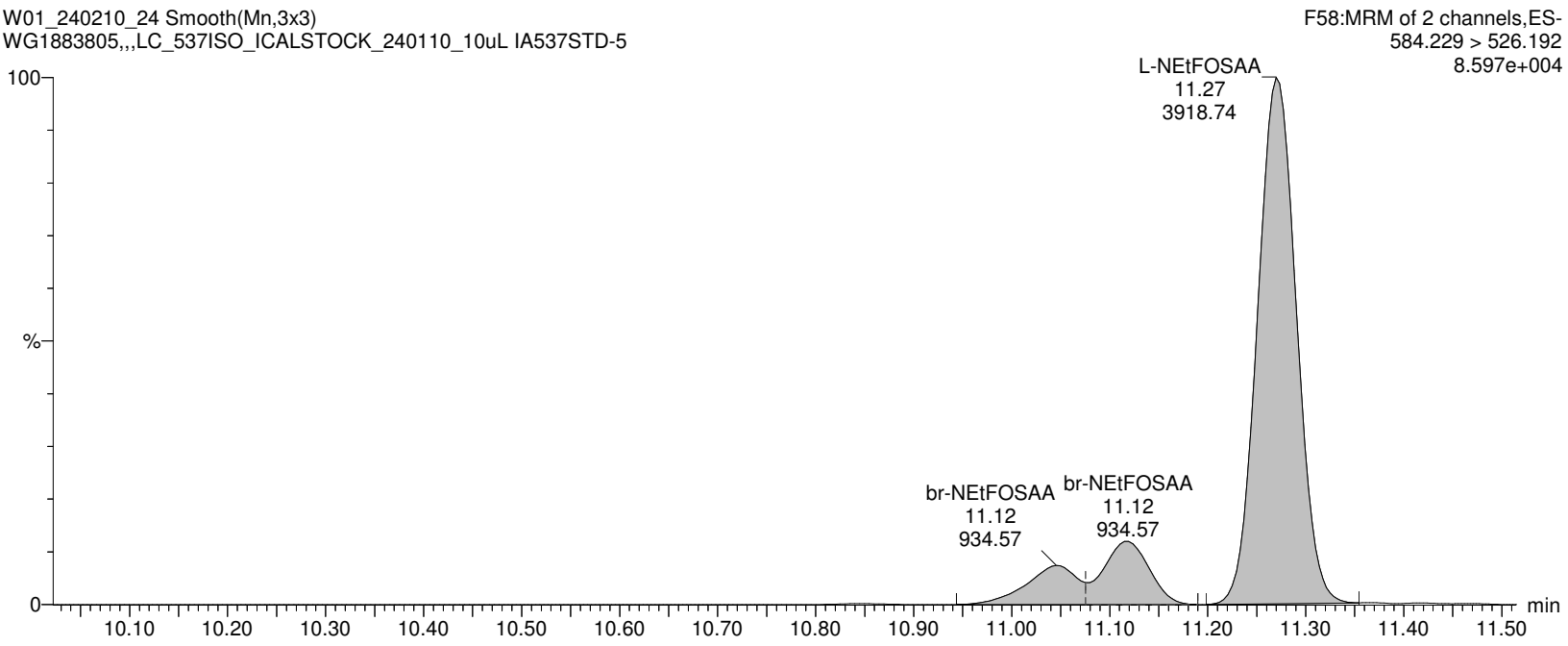

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
Time: 17:03:10
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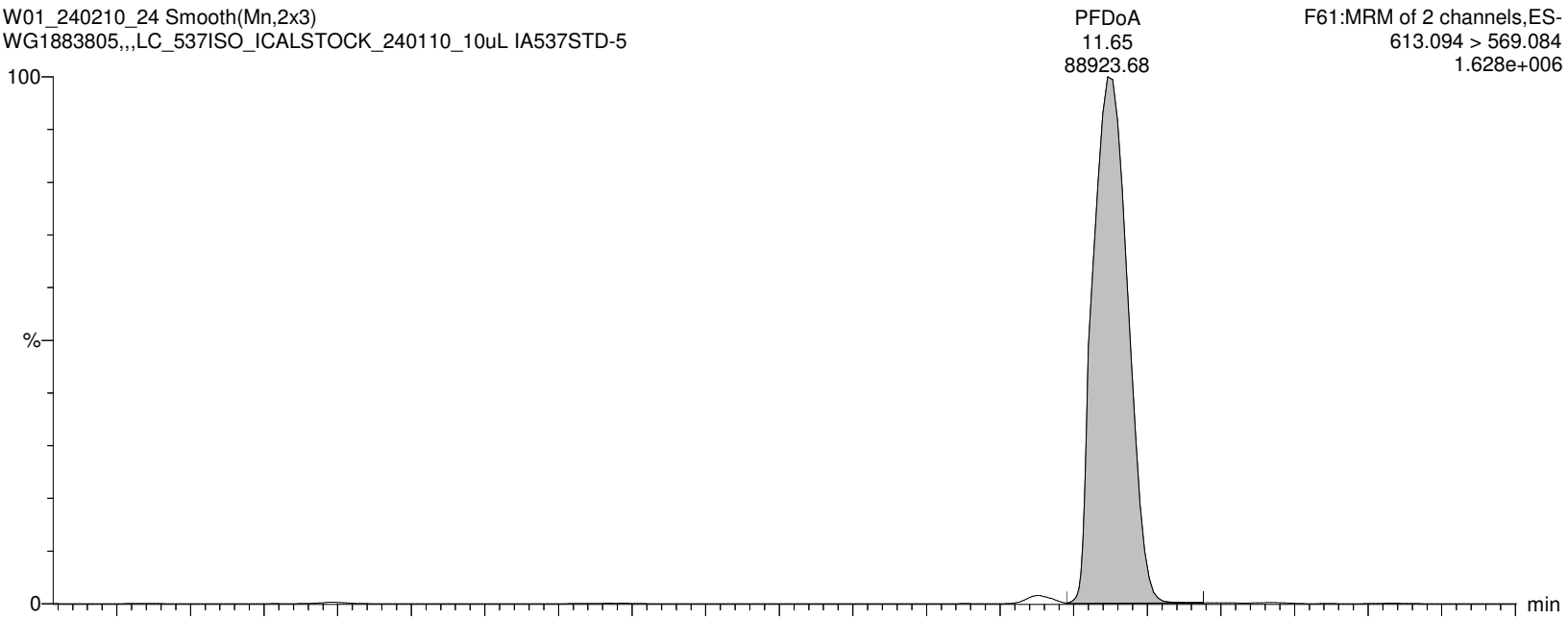

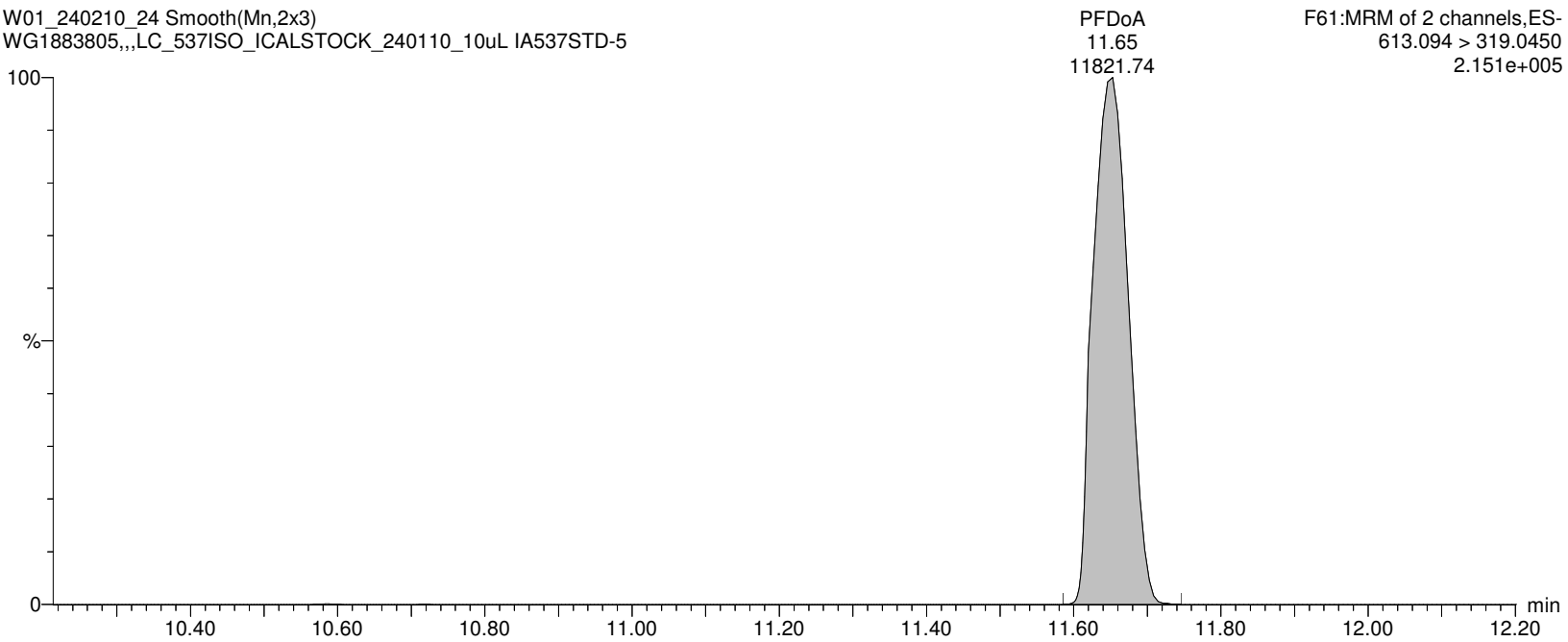

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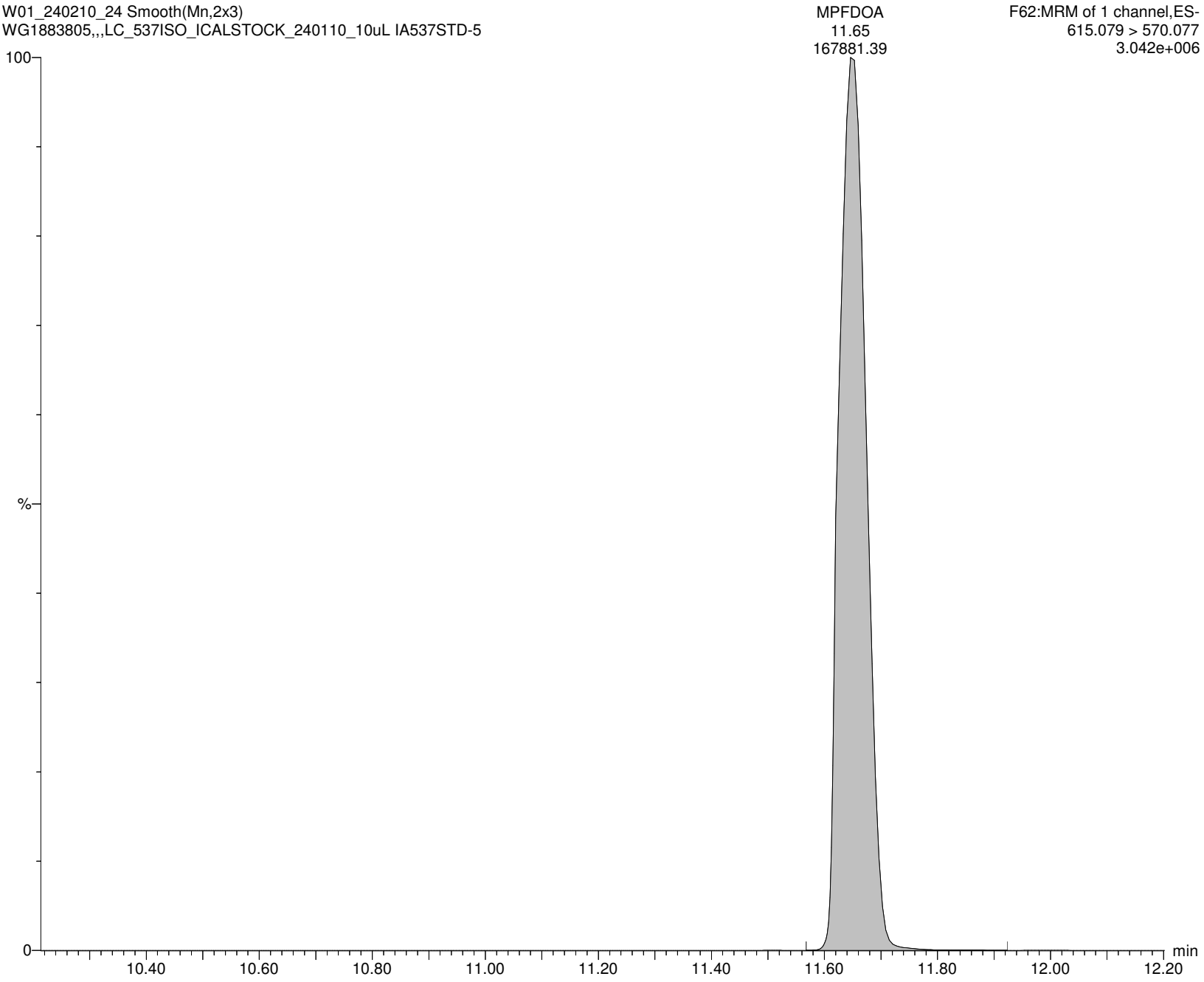

all concentration units in (ng/mL)

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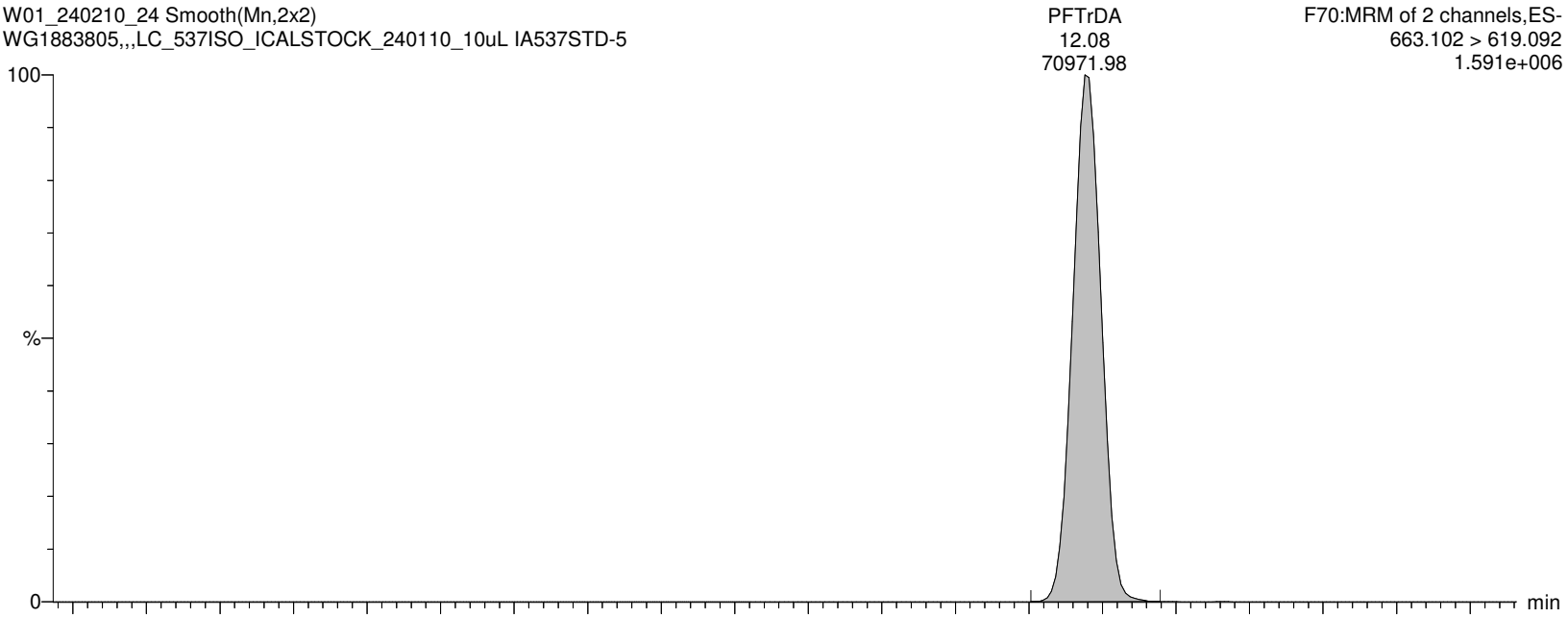

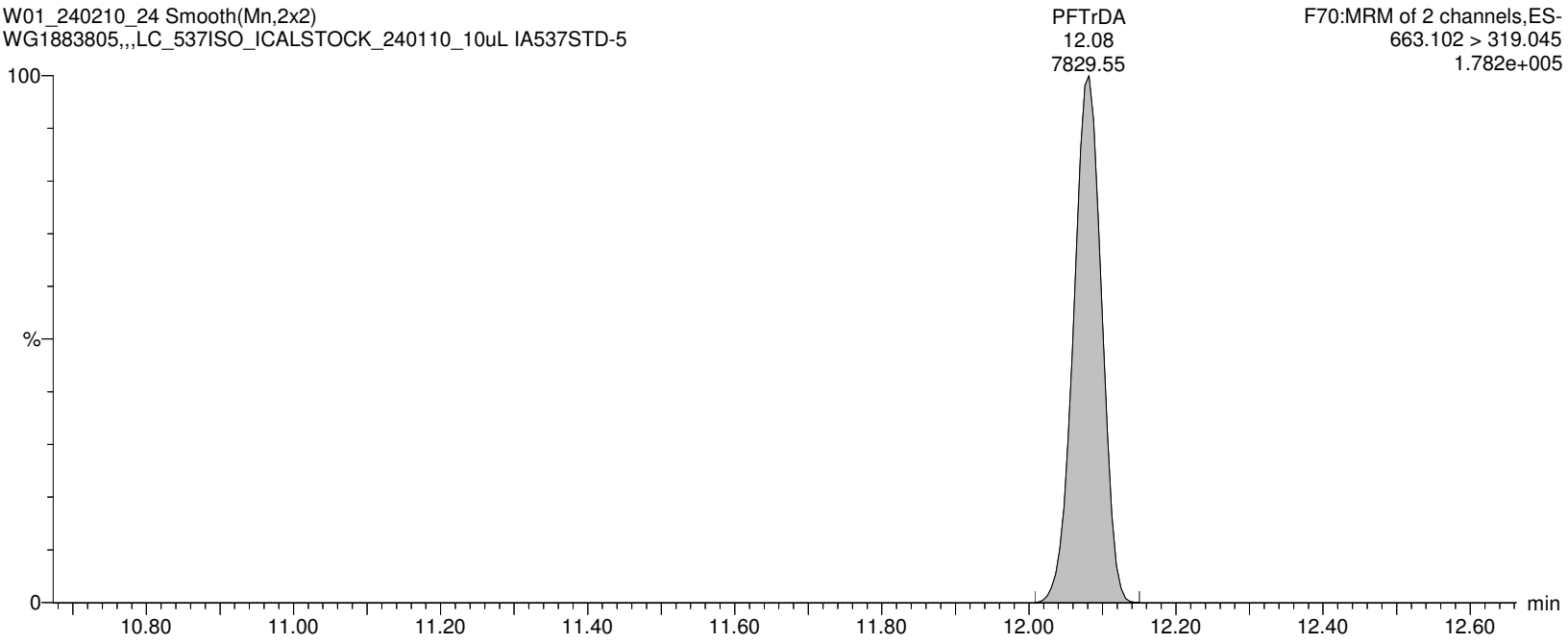

all concentration units in (ng/mL)

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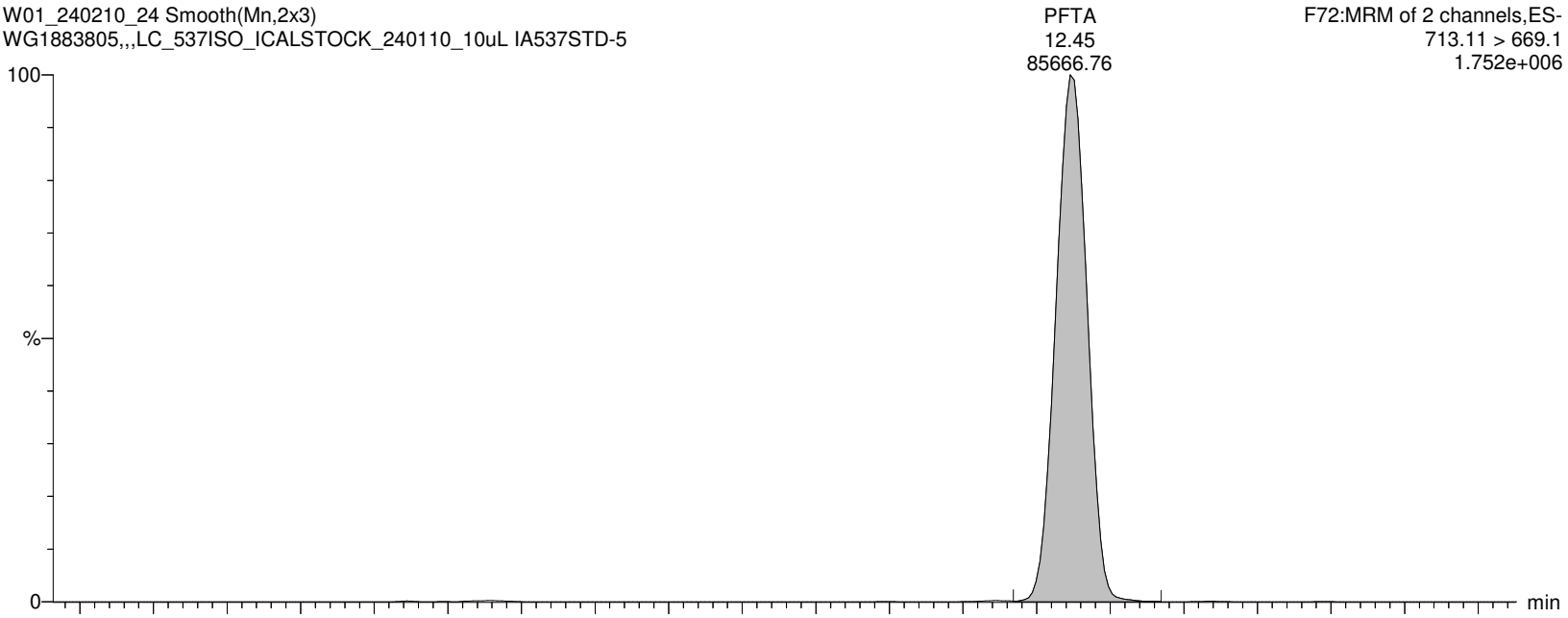

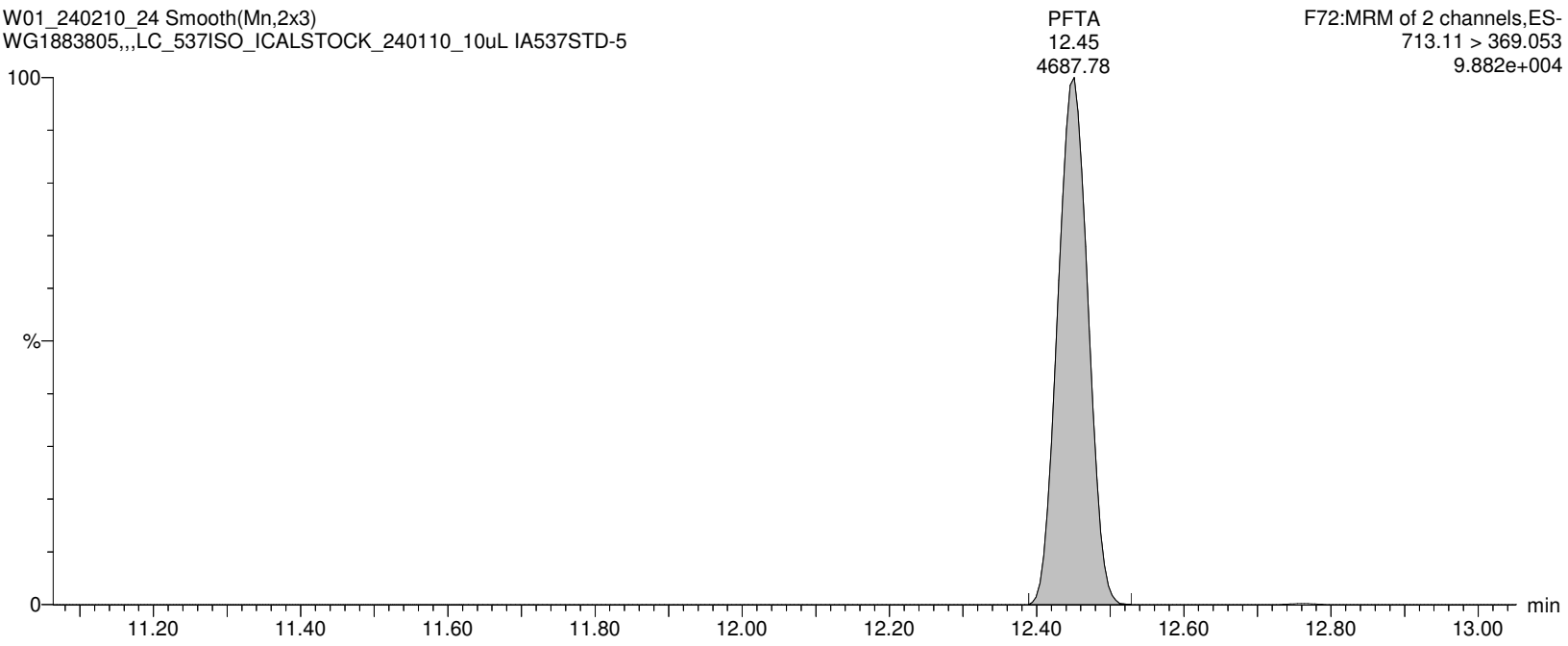

all concentration units in (ng/mL)

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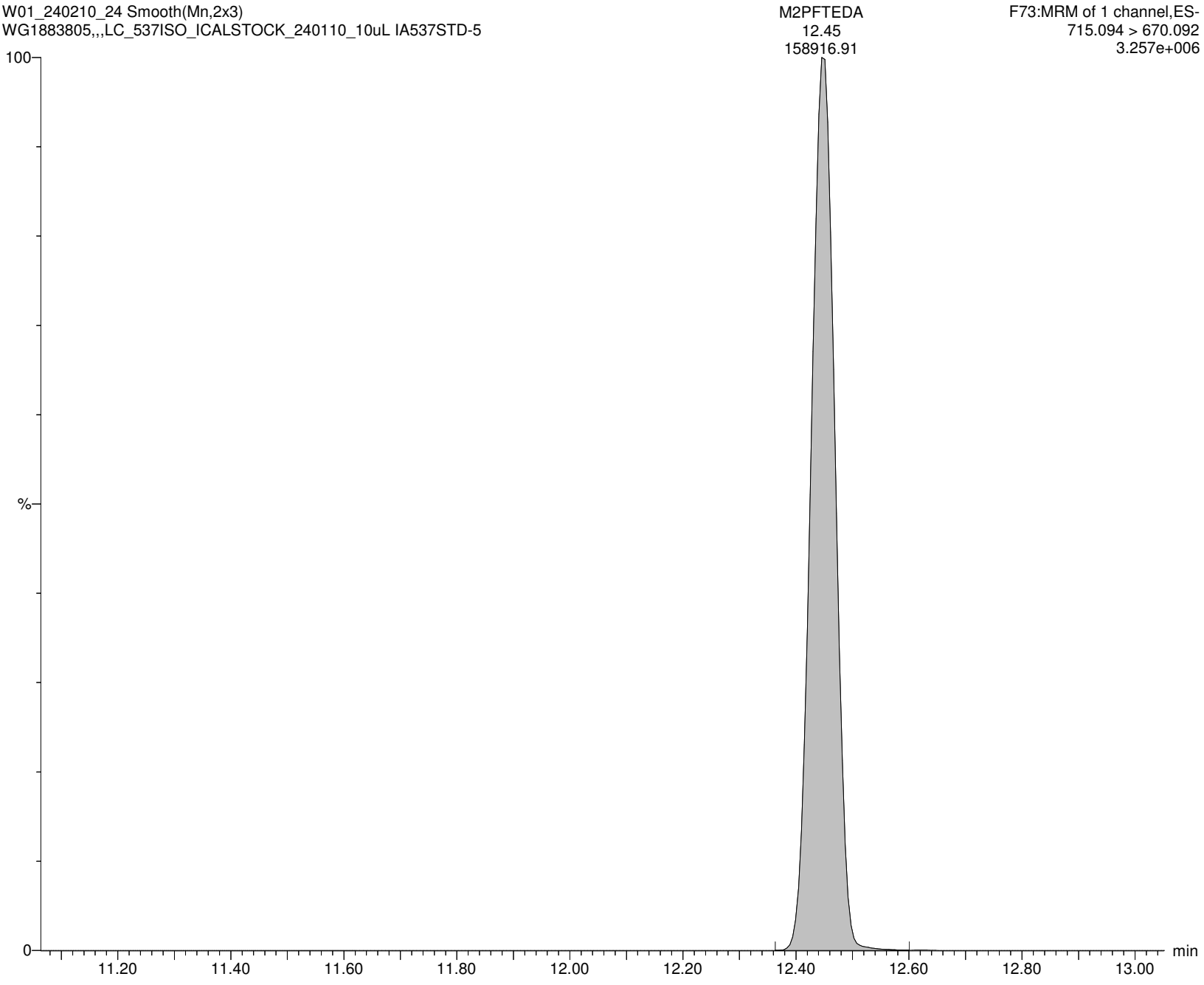

all concentration units in (ng/mL)

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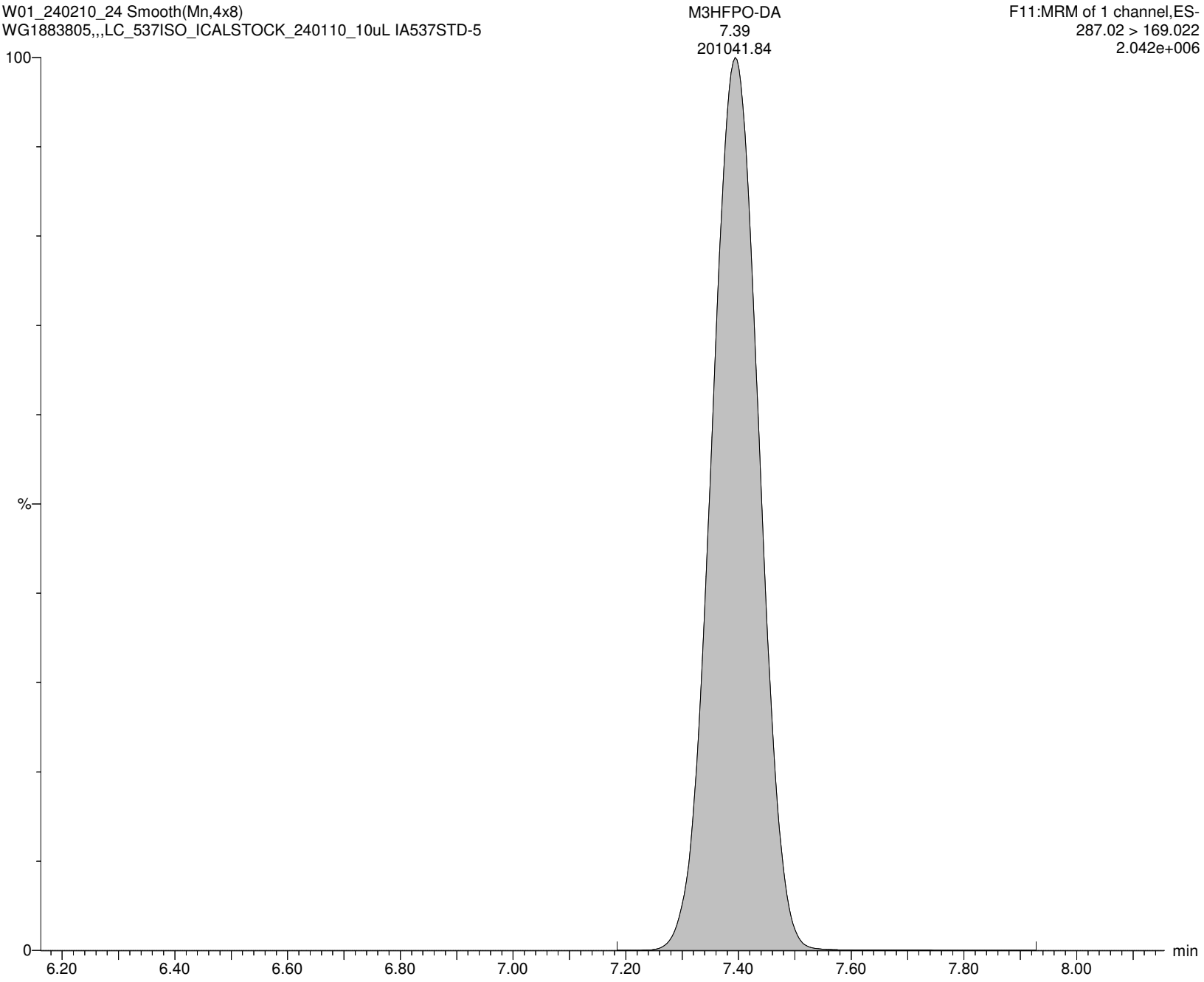

all concentration units in (ng/mL)

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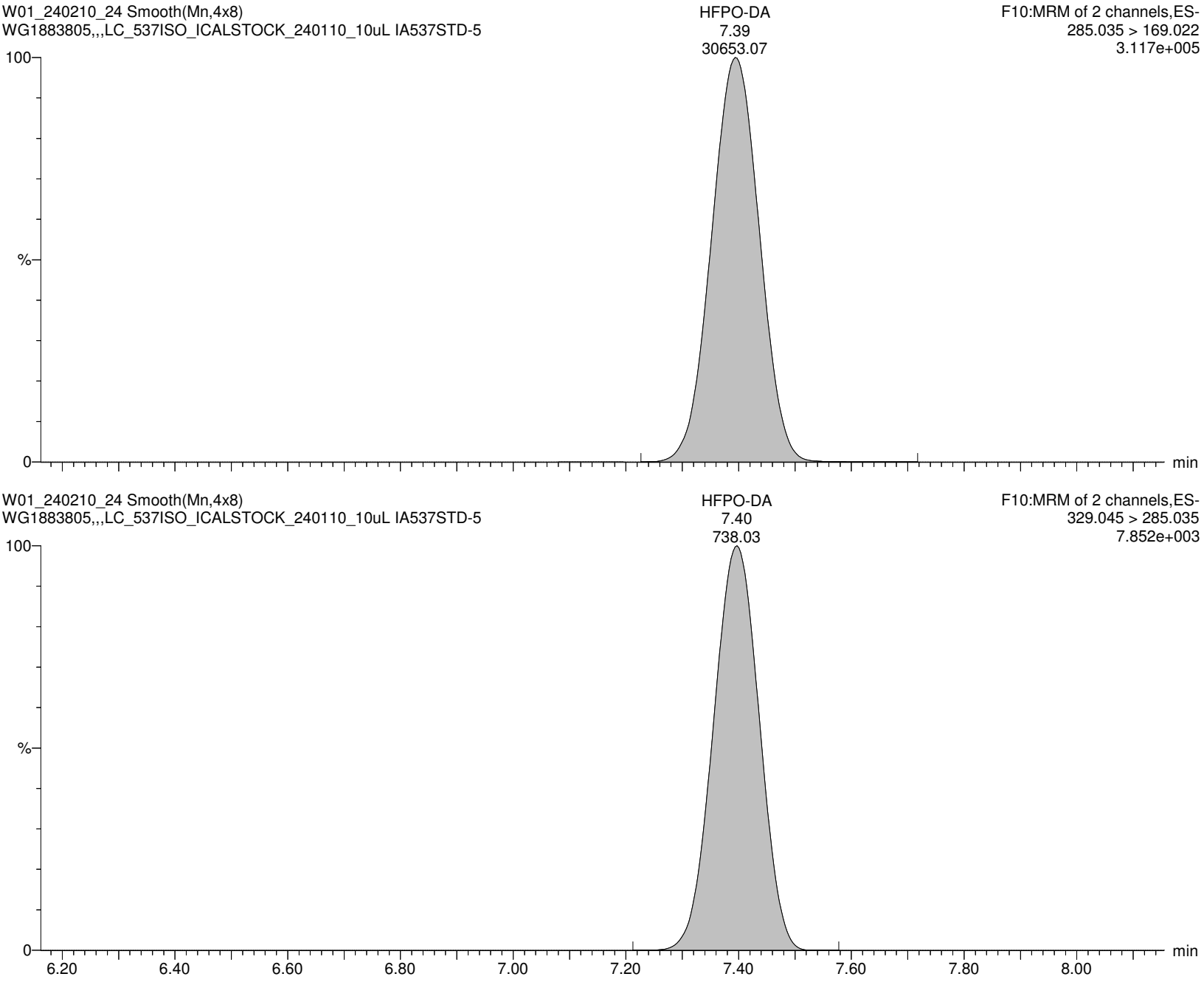
HFPO-DA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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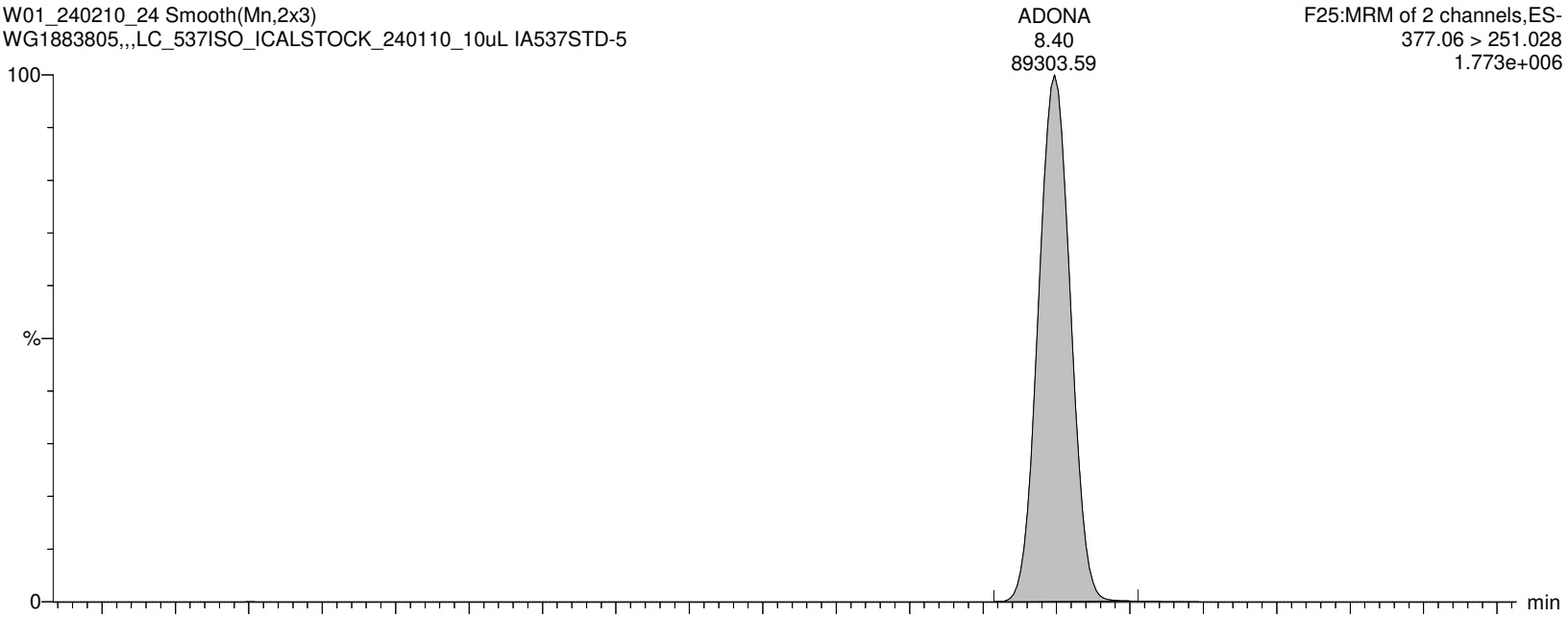

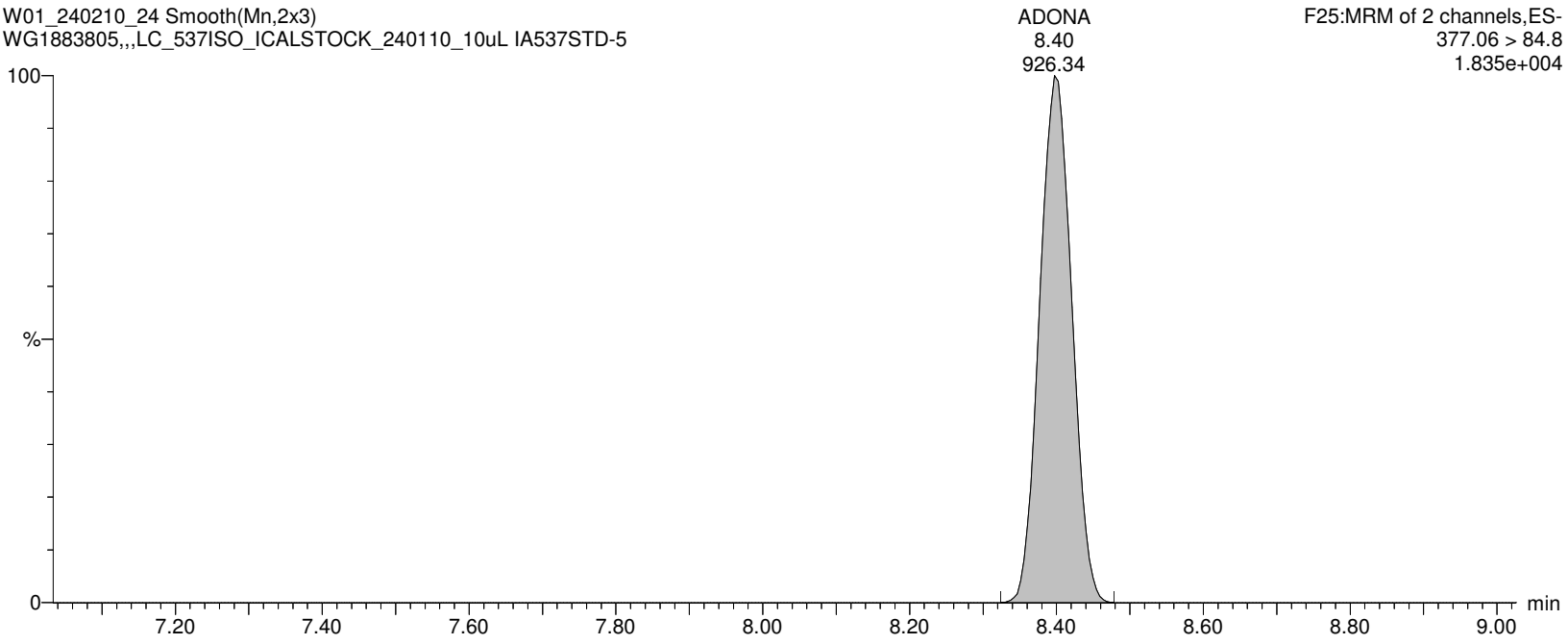

all concentration units in (ng/mL)

Alpha Analytical Inc.
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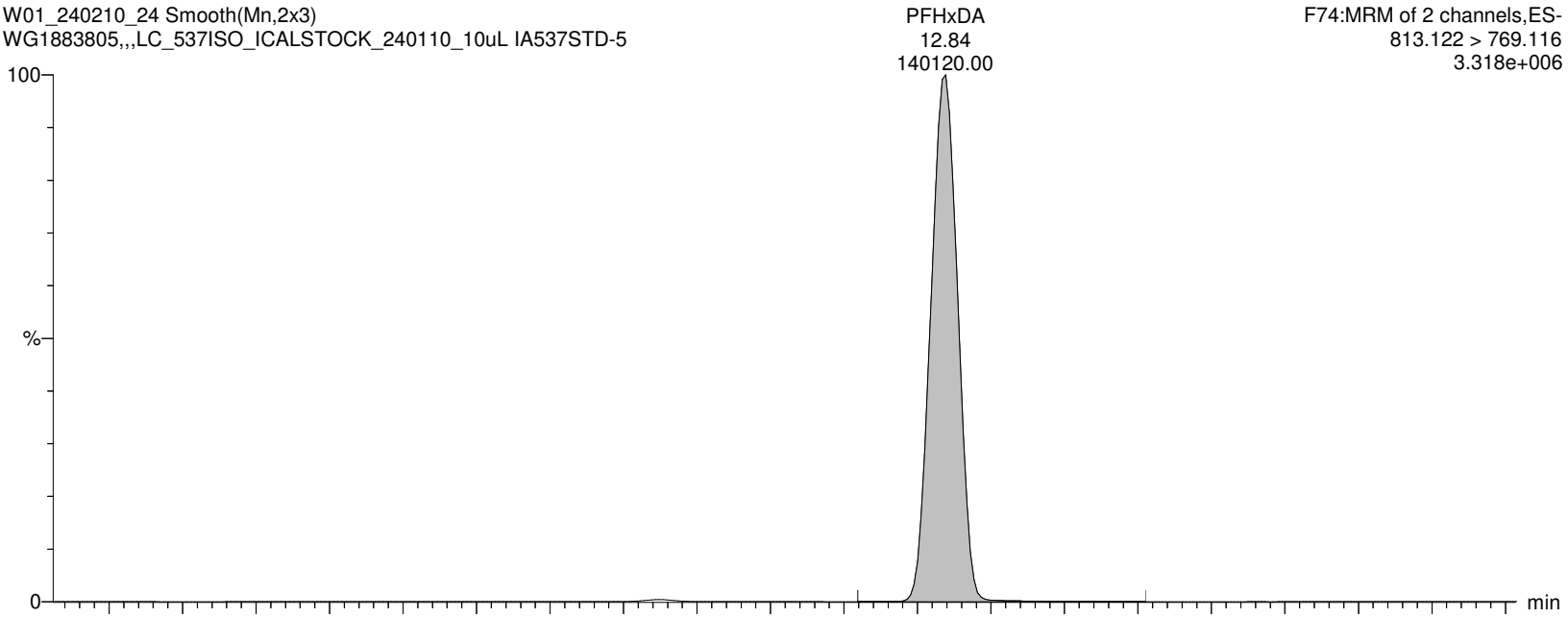

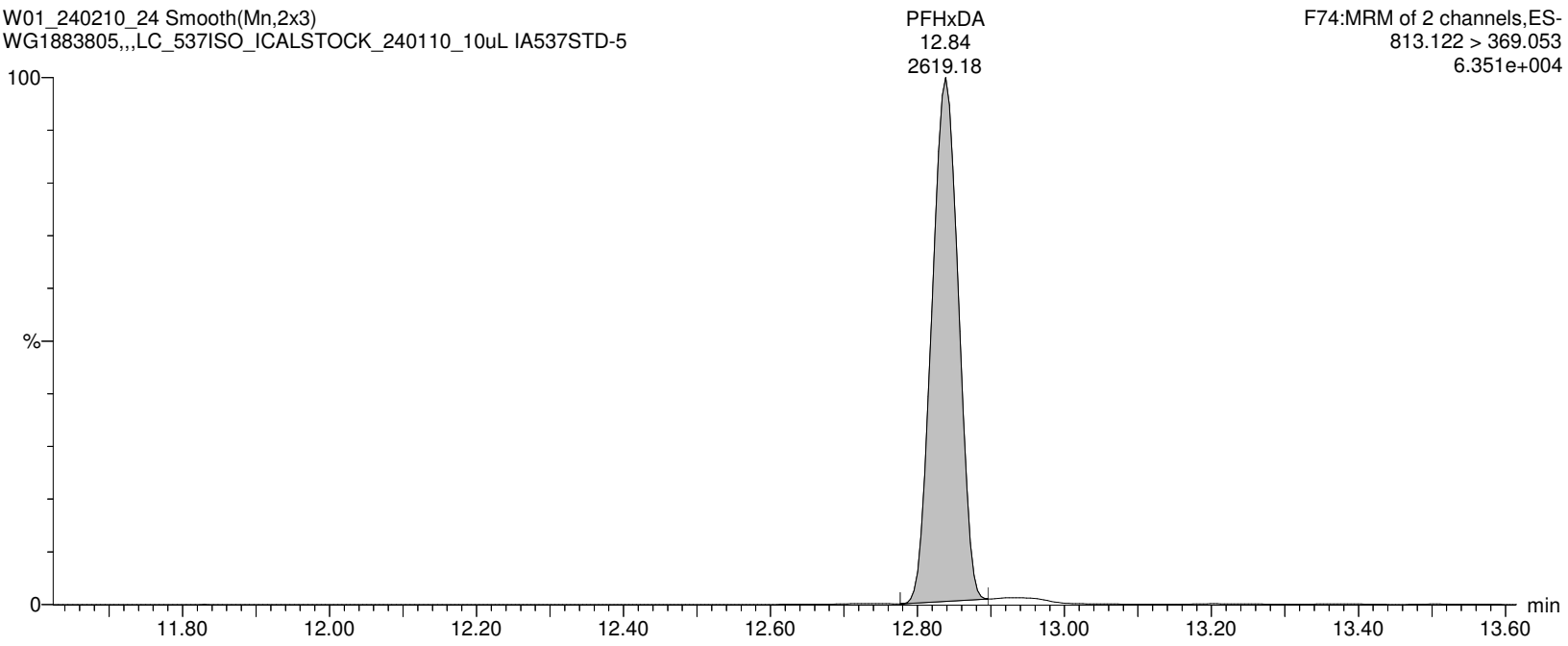

all concentration units in (ng/mL)

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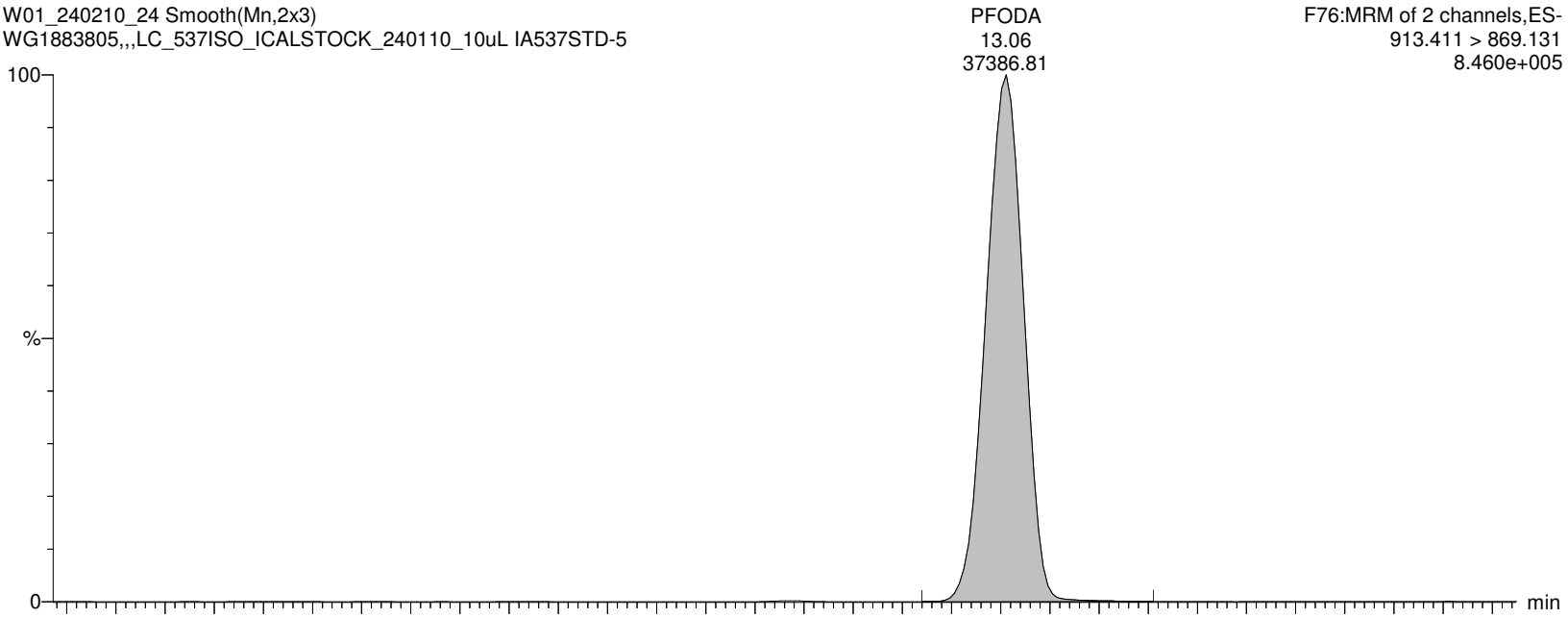

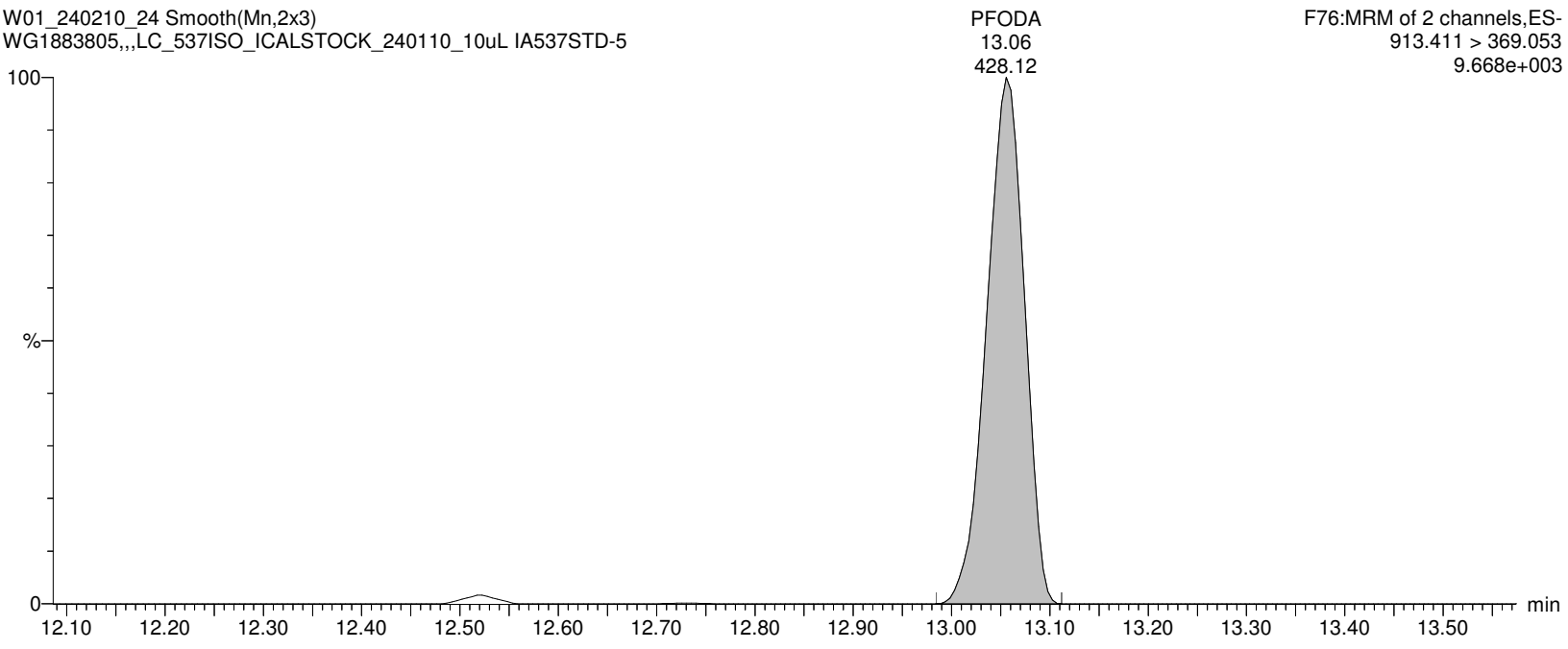

all concentration units in (ng/mL)

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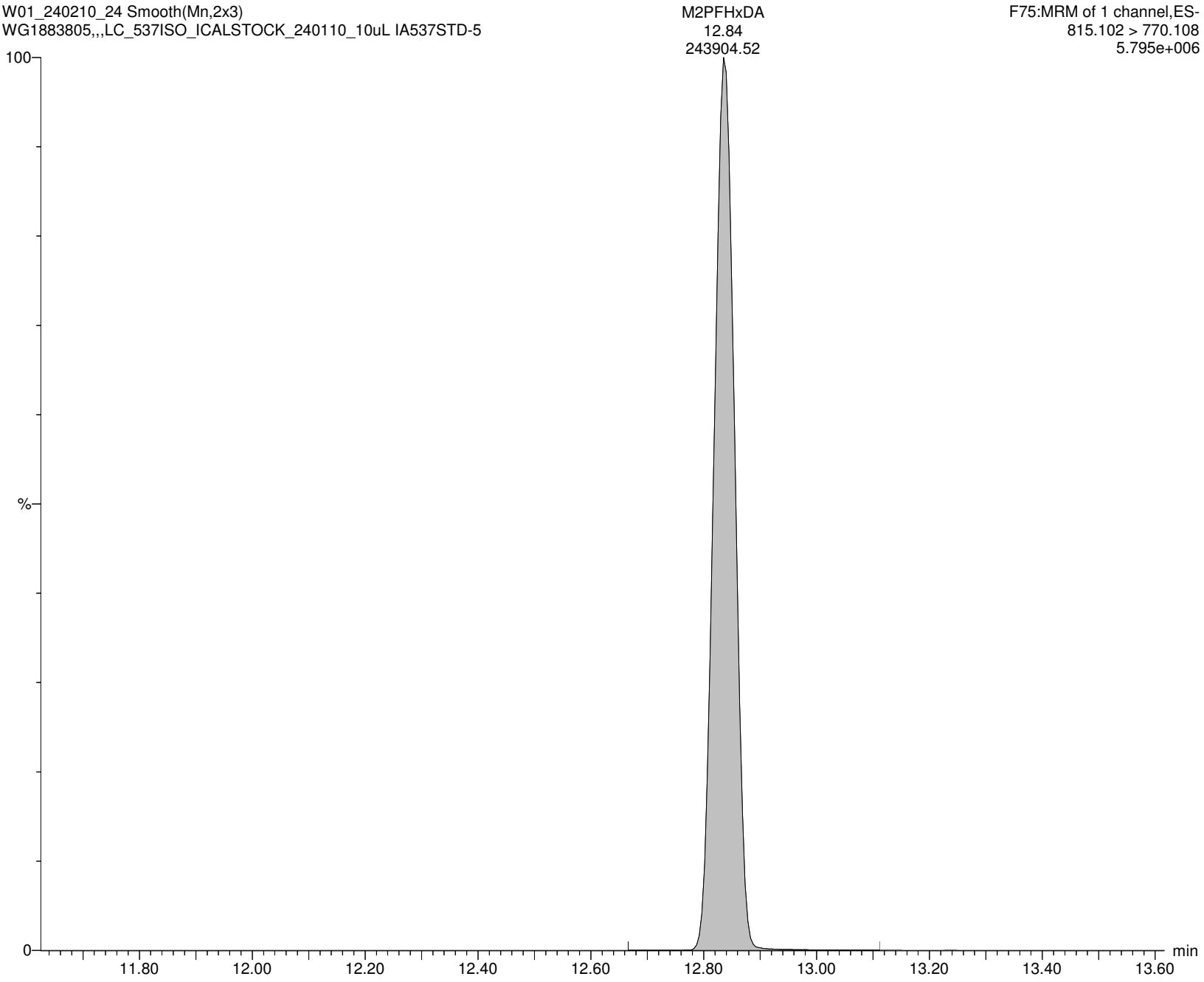

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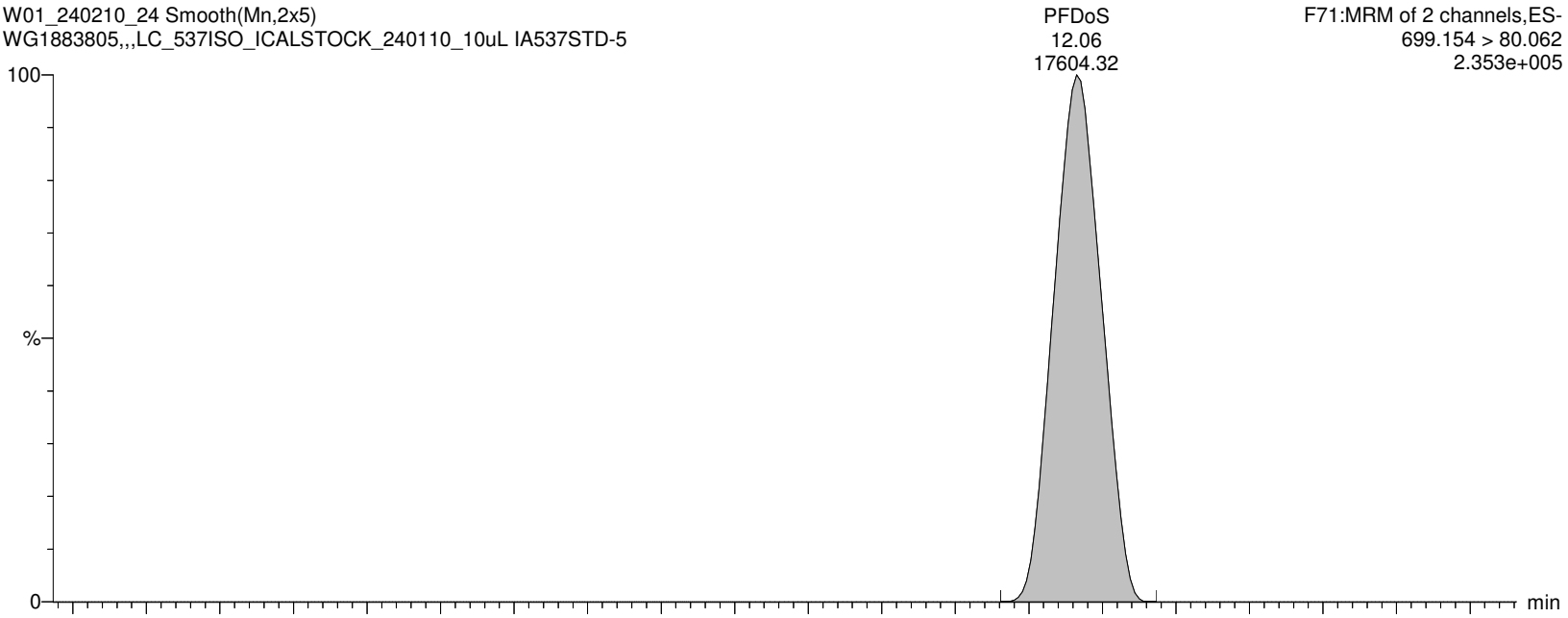

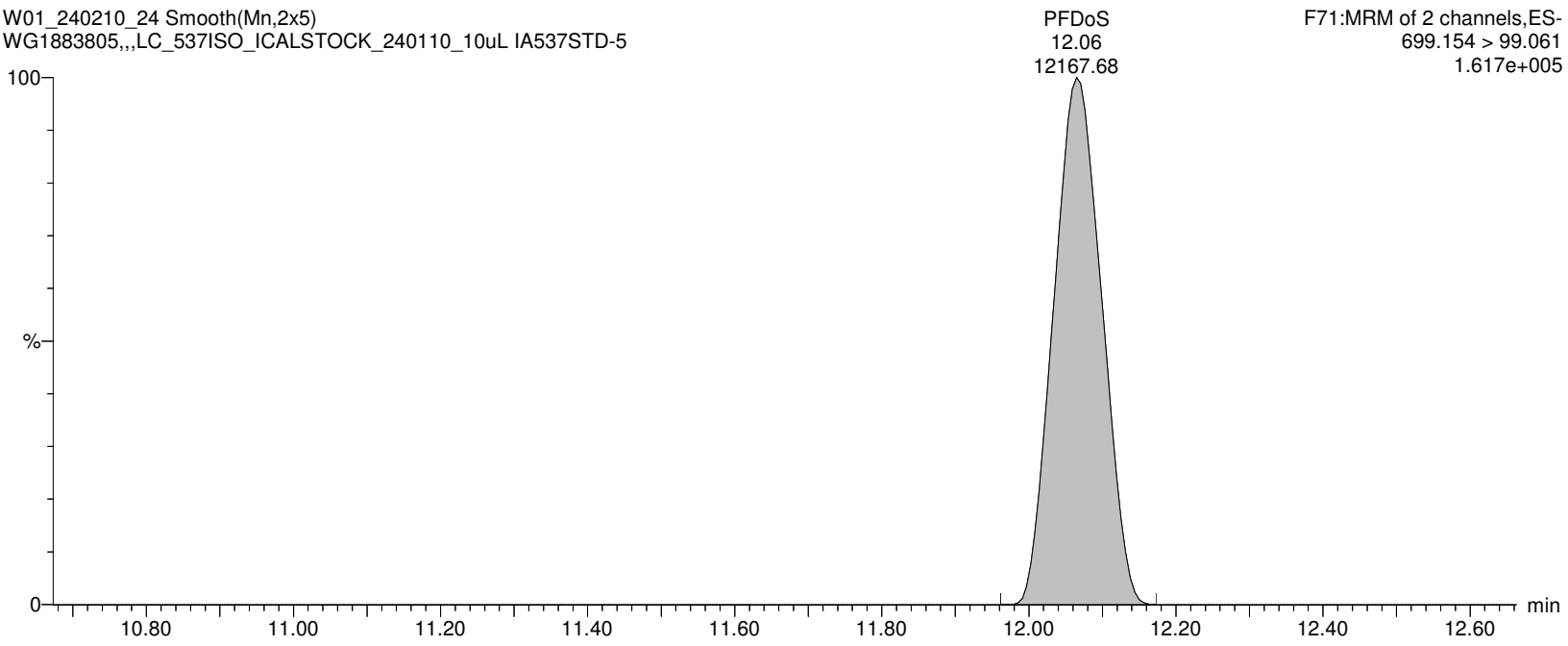

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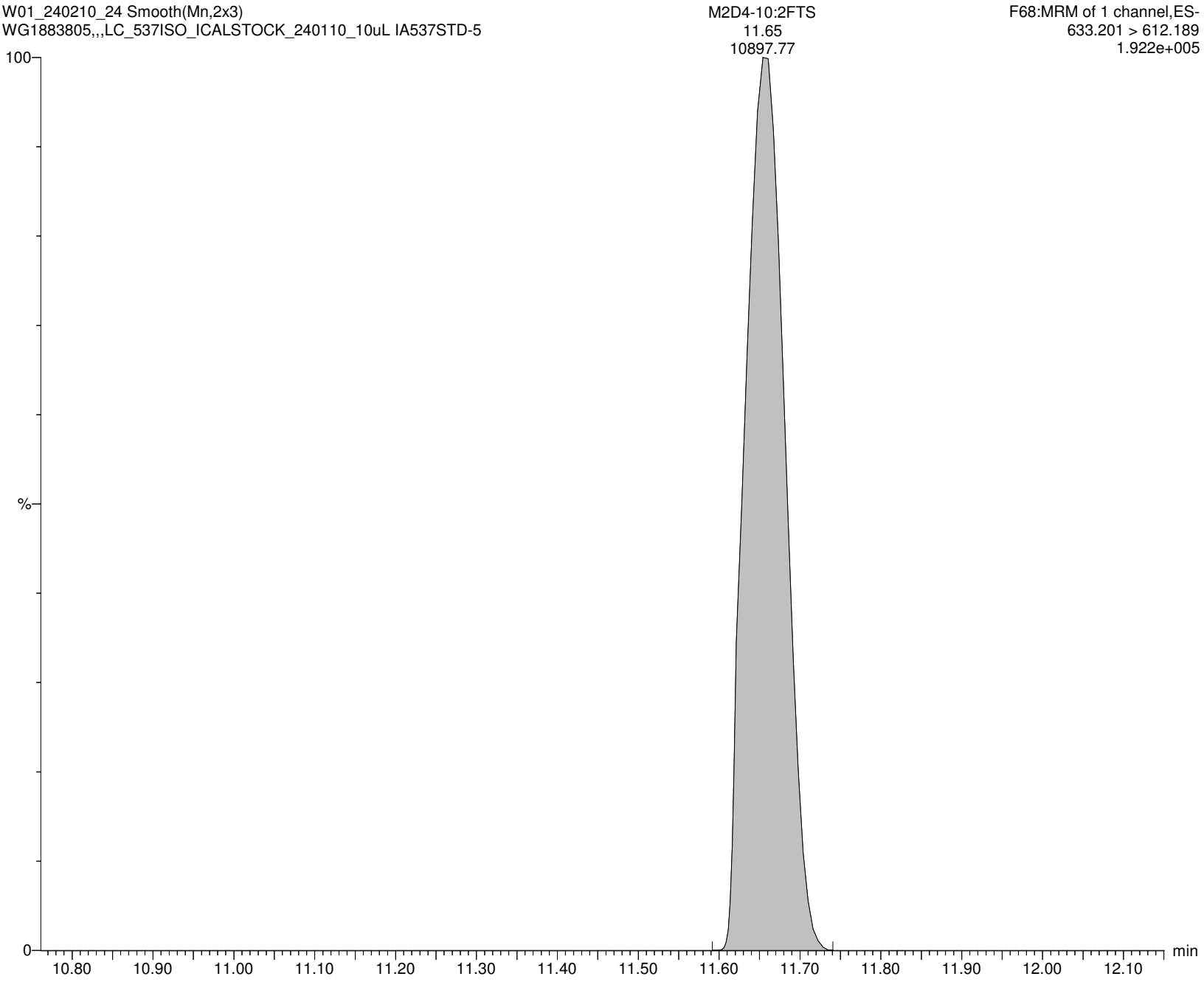

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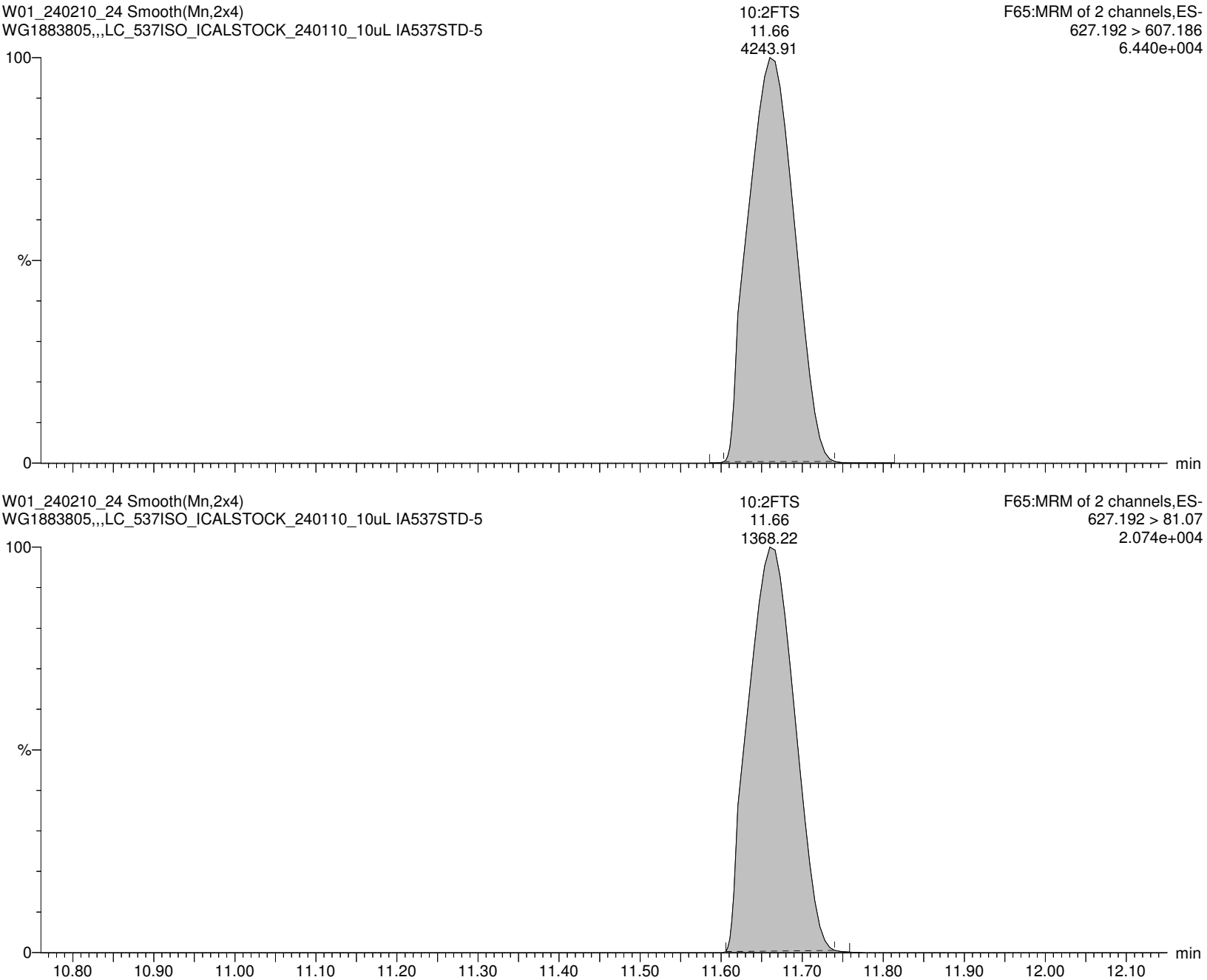
10:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
Time: 17:03:10
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User: LCMS01:SG
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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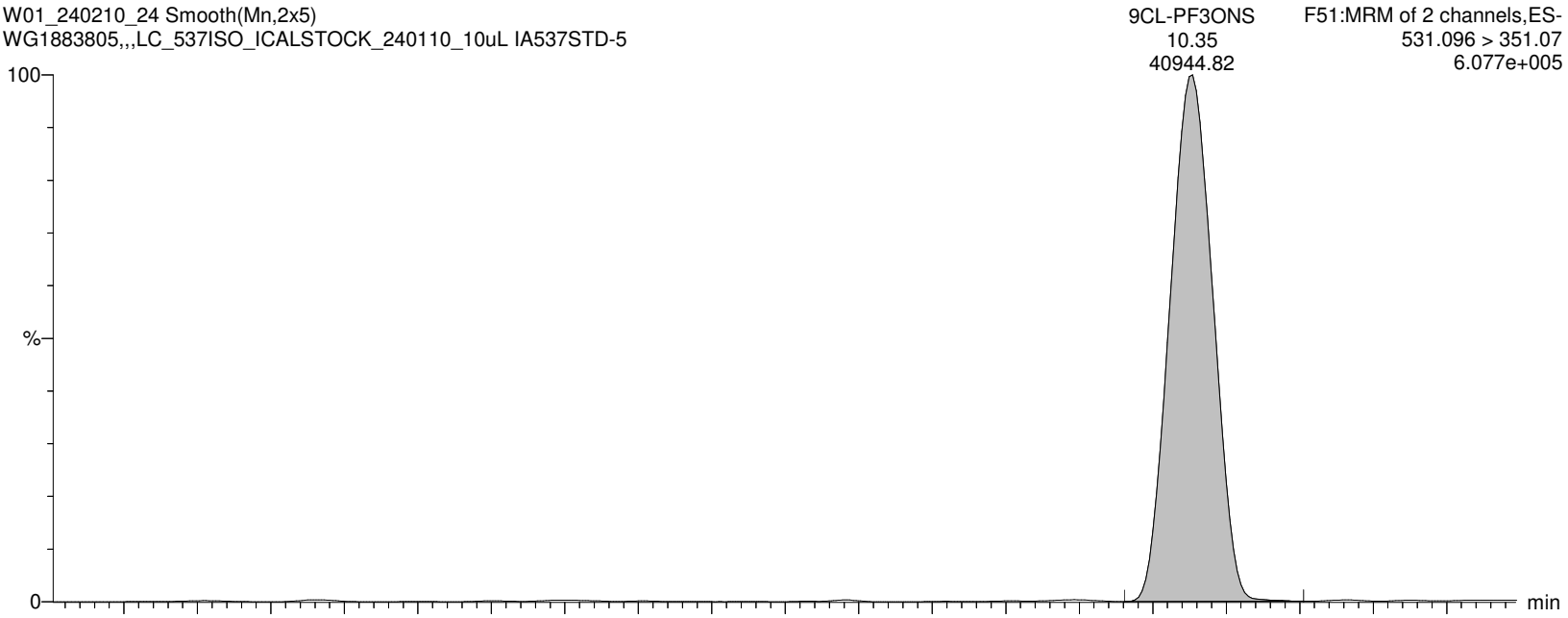
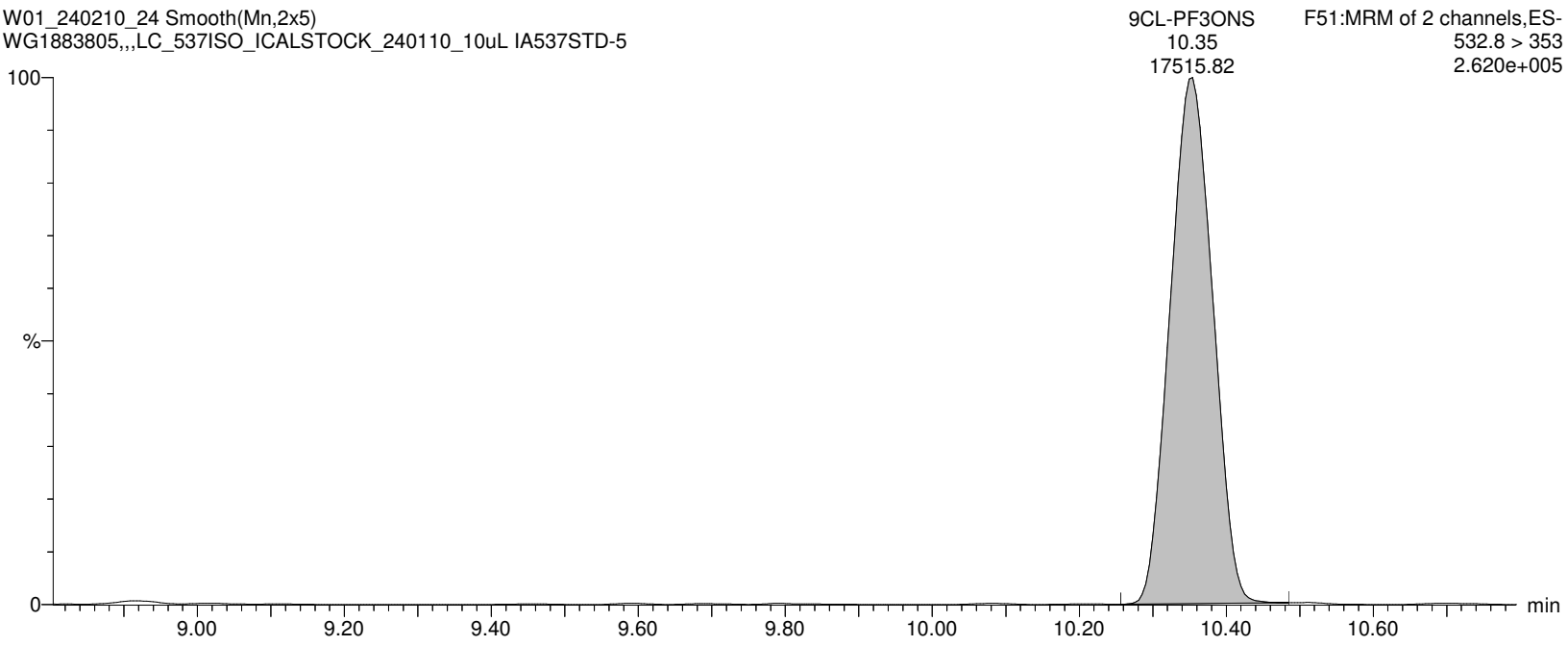
9CL-PF3ONS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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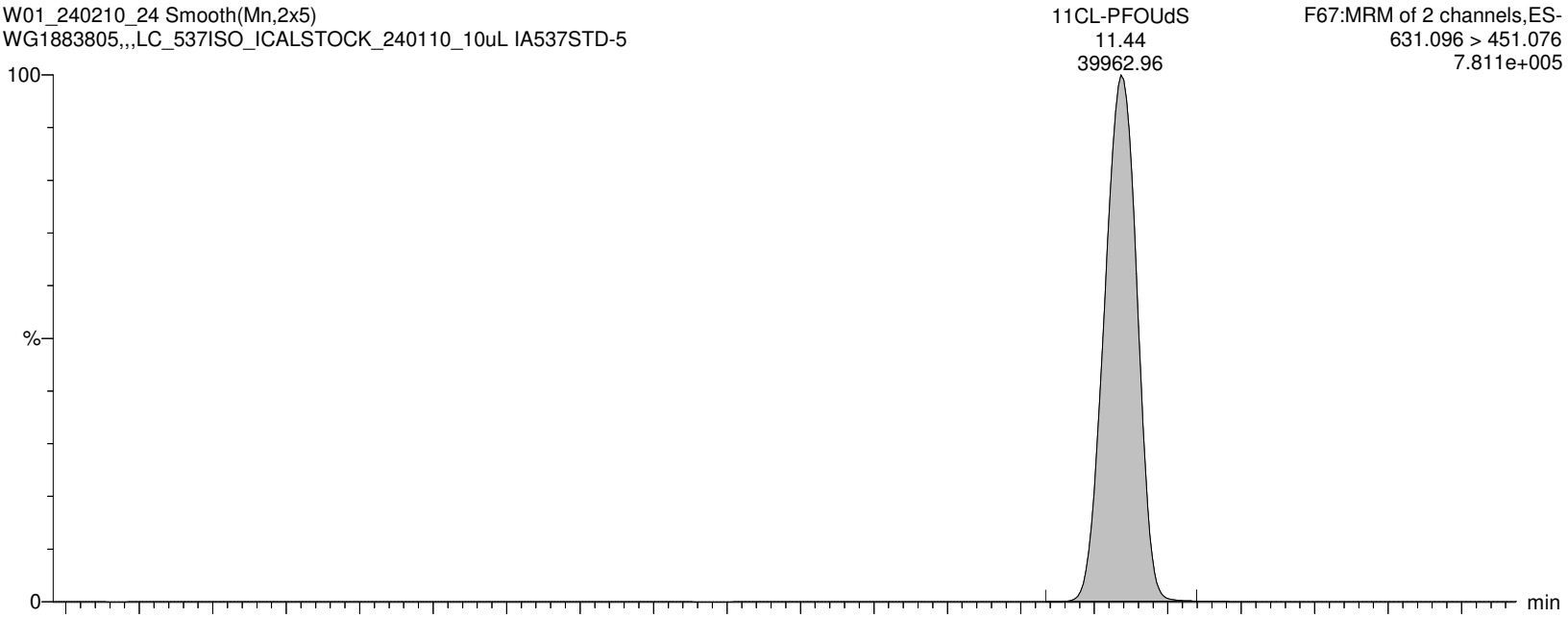
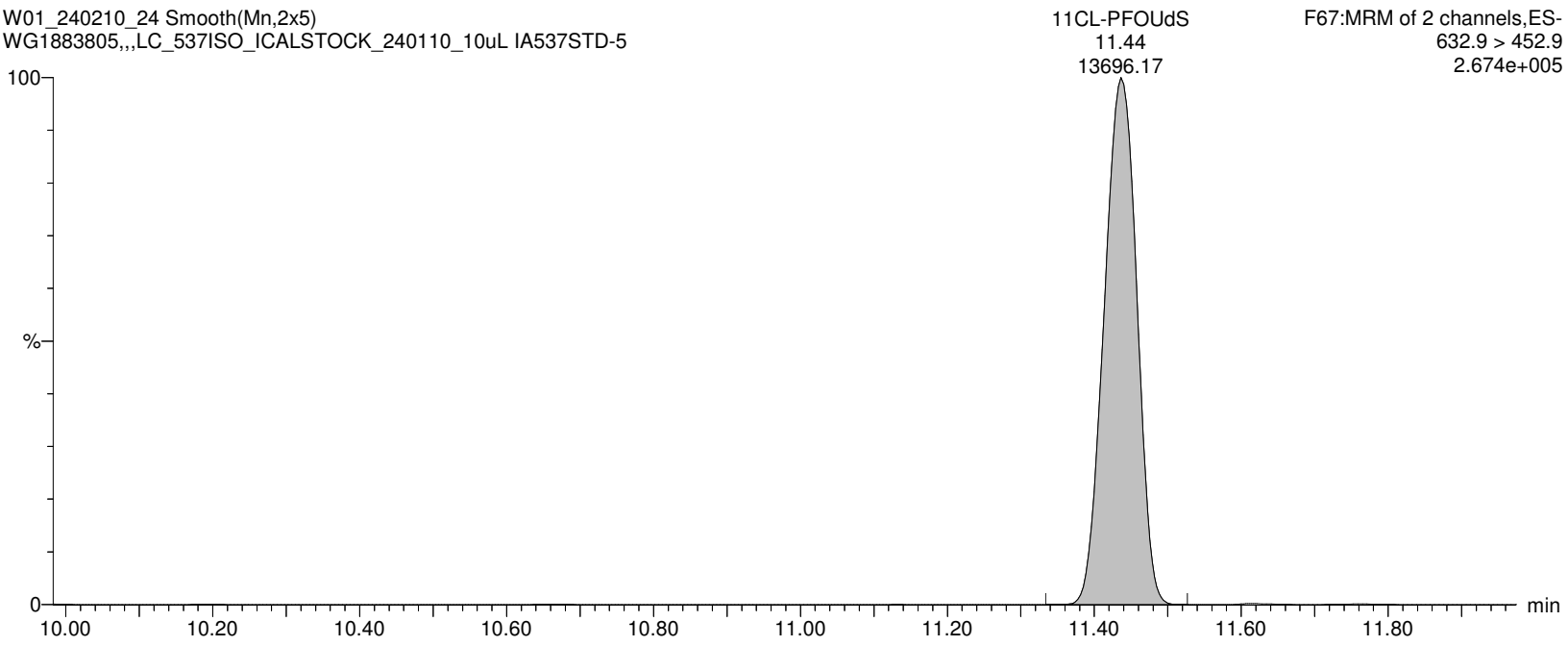
11CL-PFOUdS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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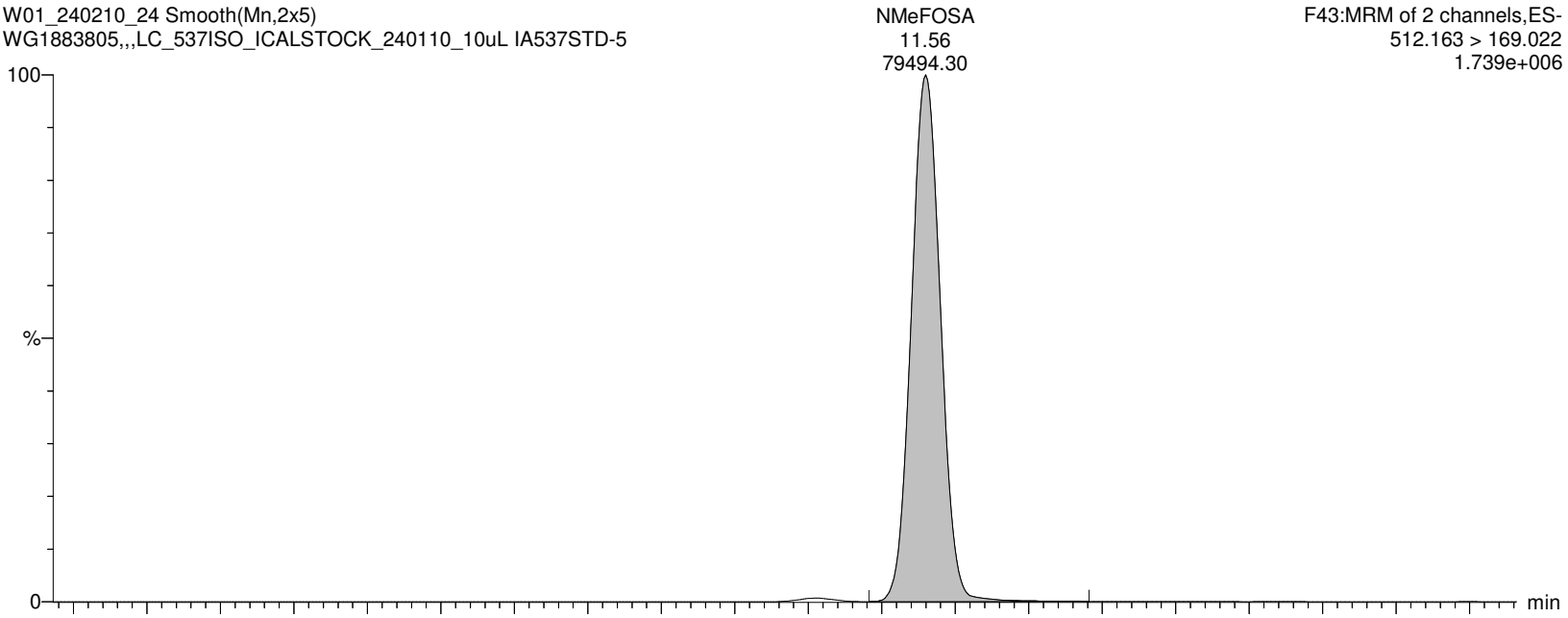

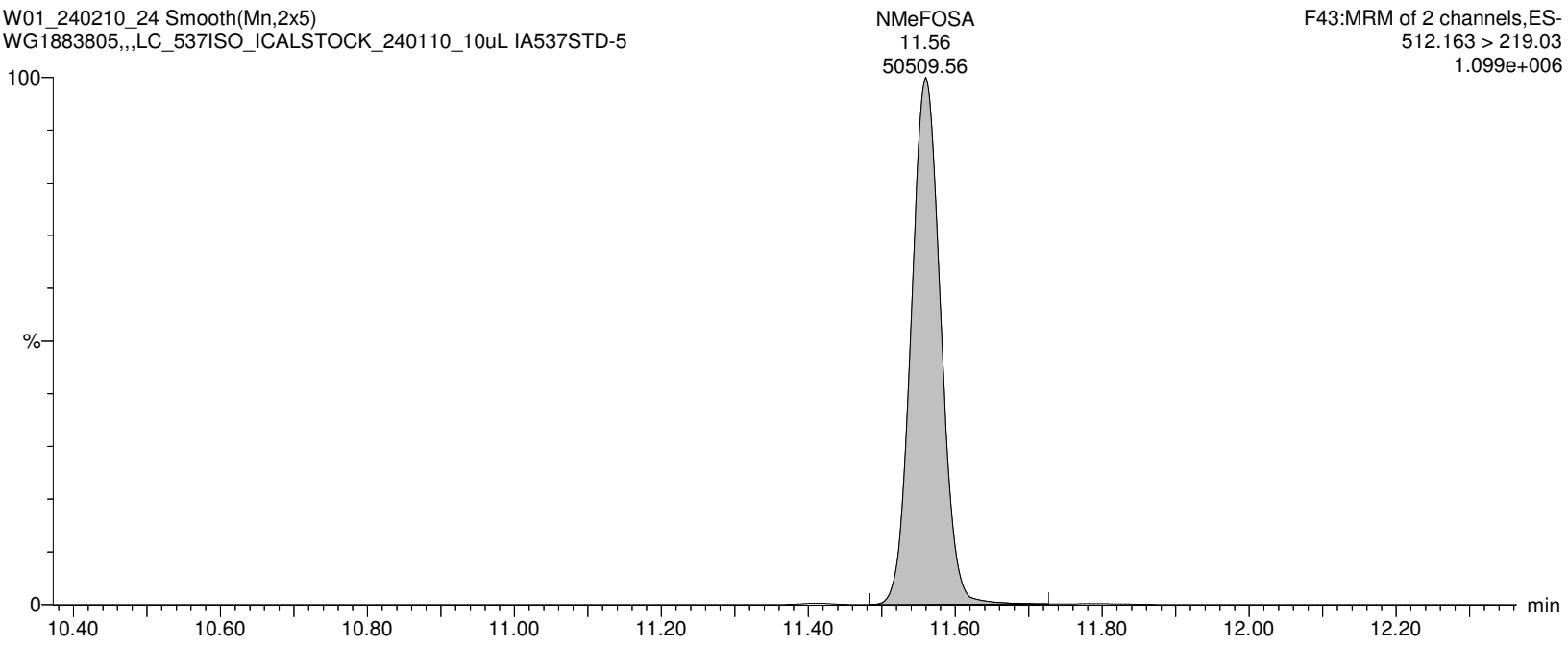

all concentration units in (ng/mL)

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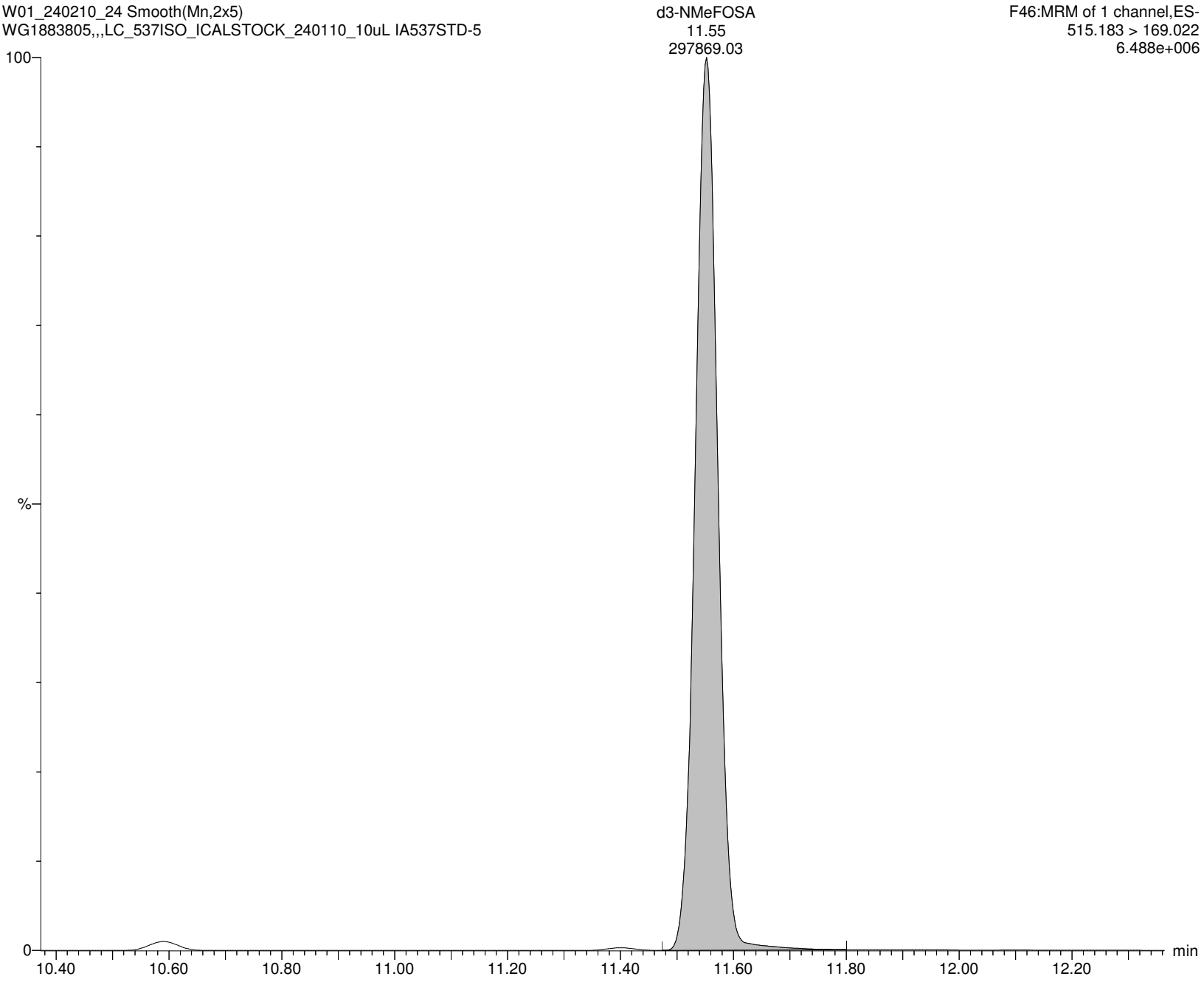
d3-NMeFOSA



all concentration units in (ng/mL)

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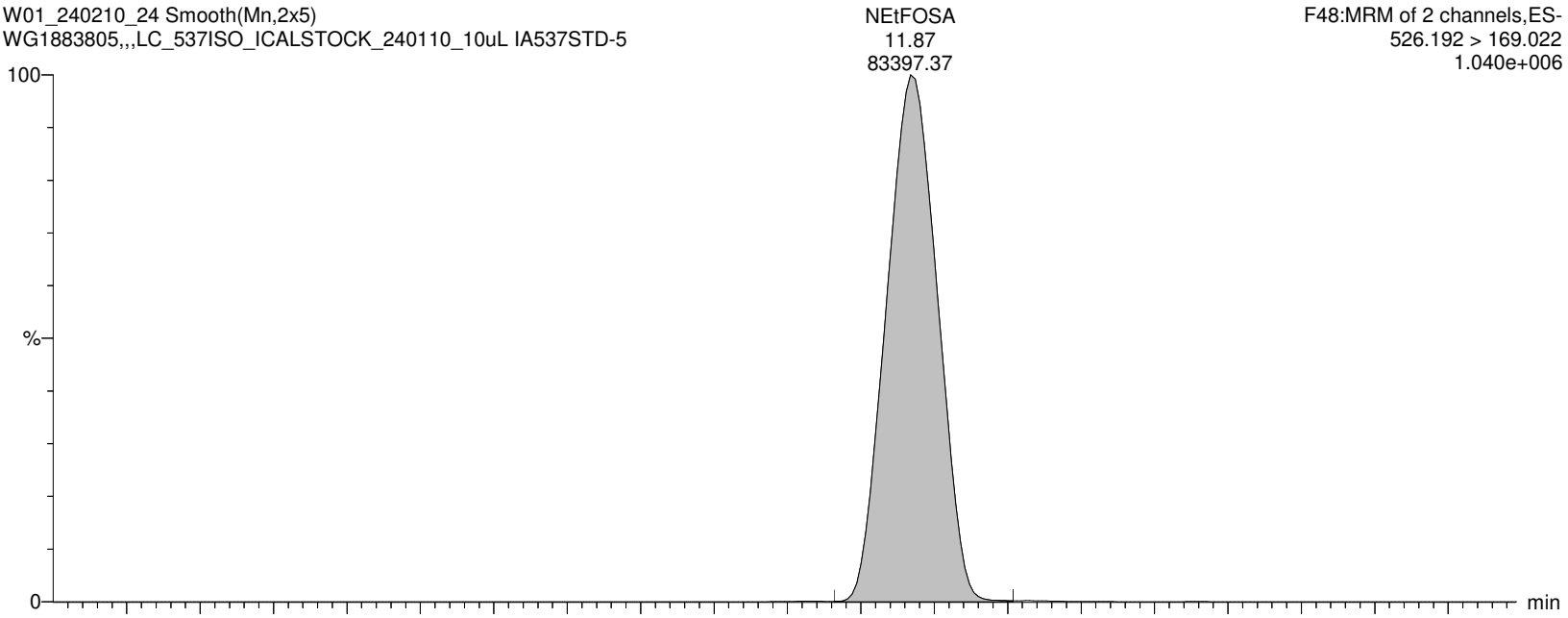

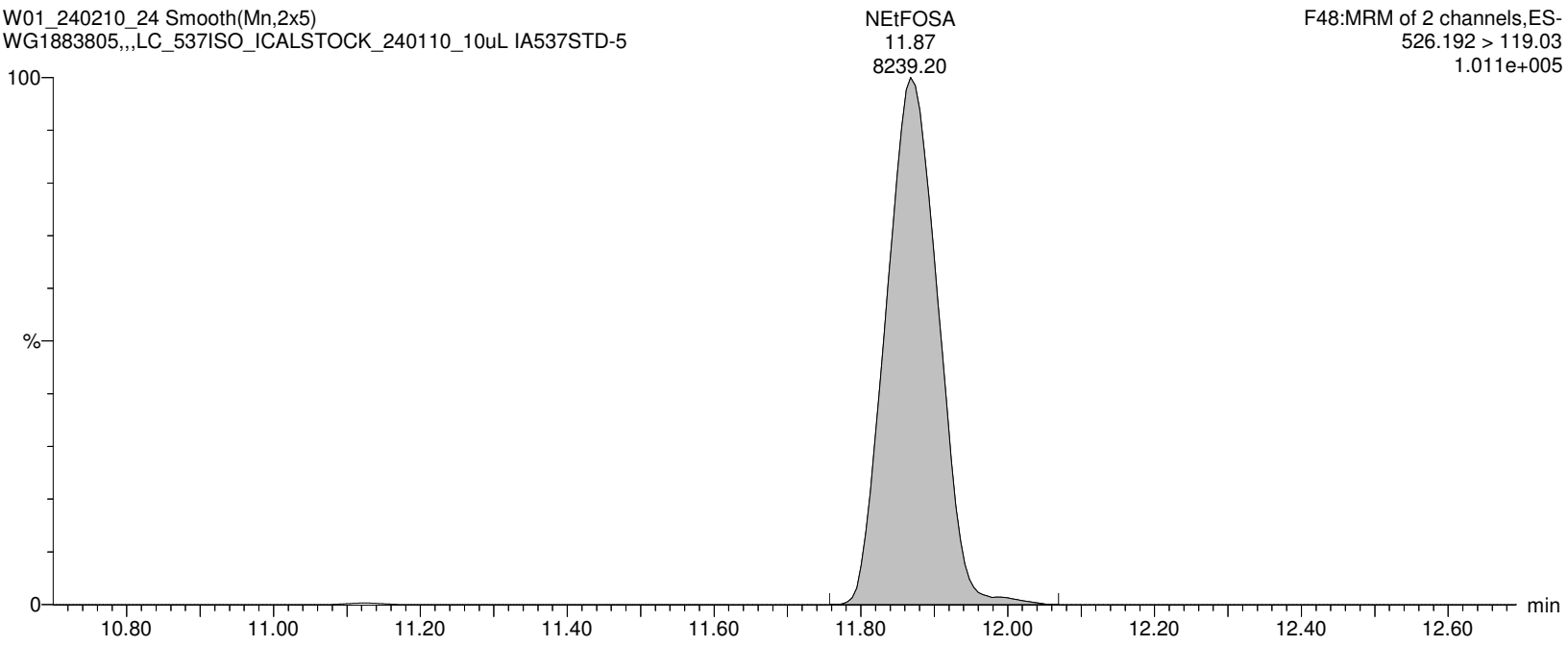

all concentration units in (ng/mL)

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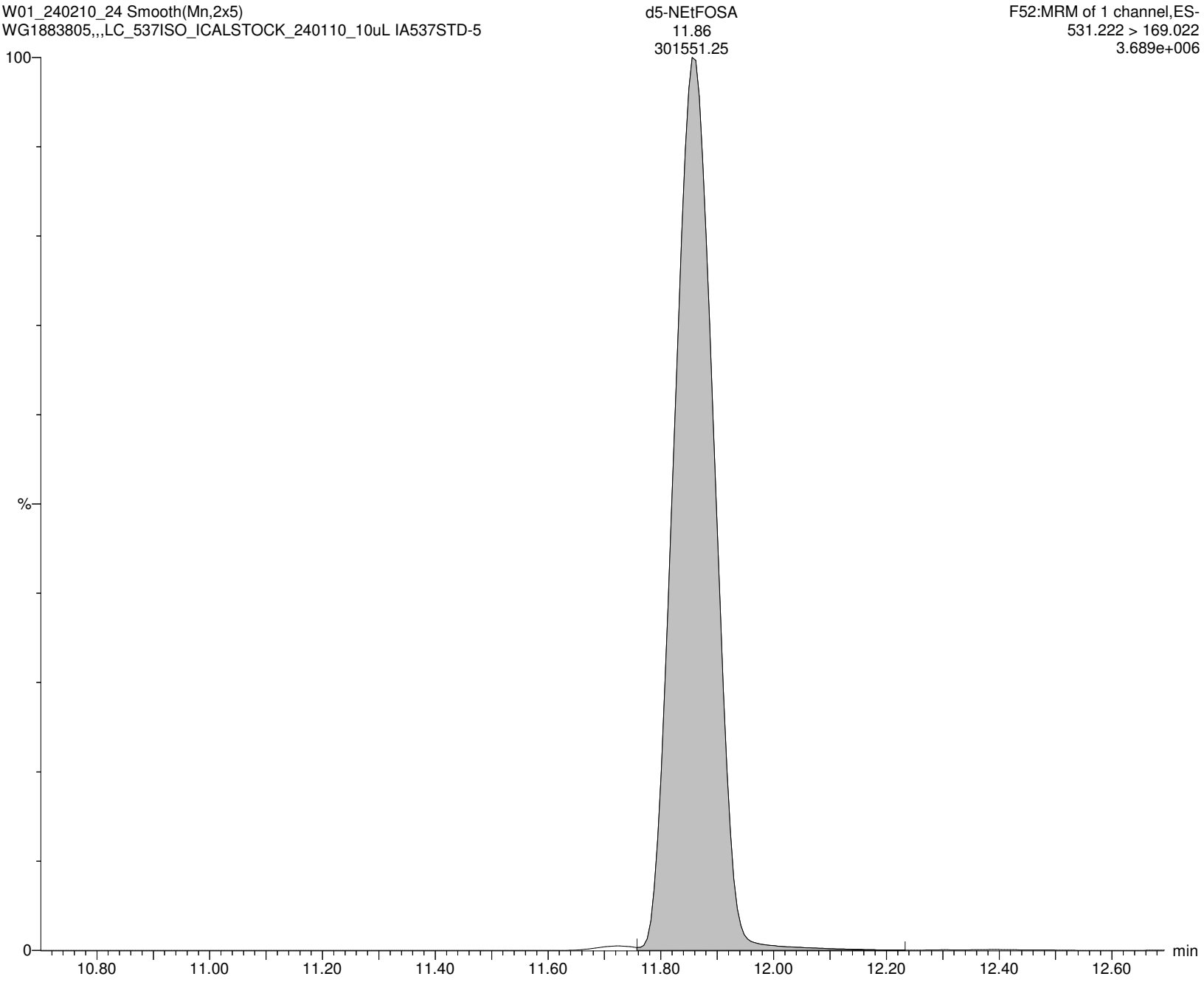
d5-NEtFOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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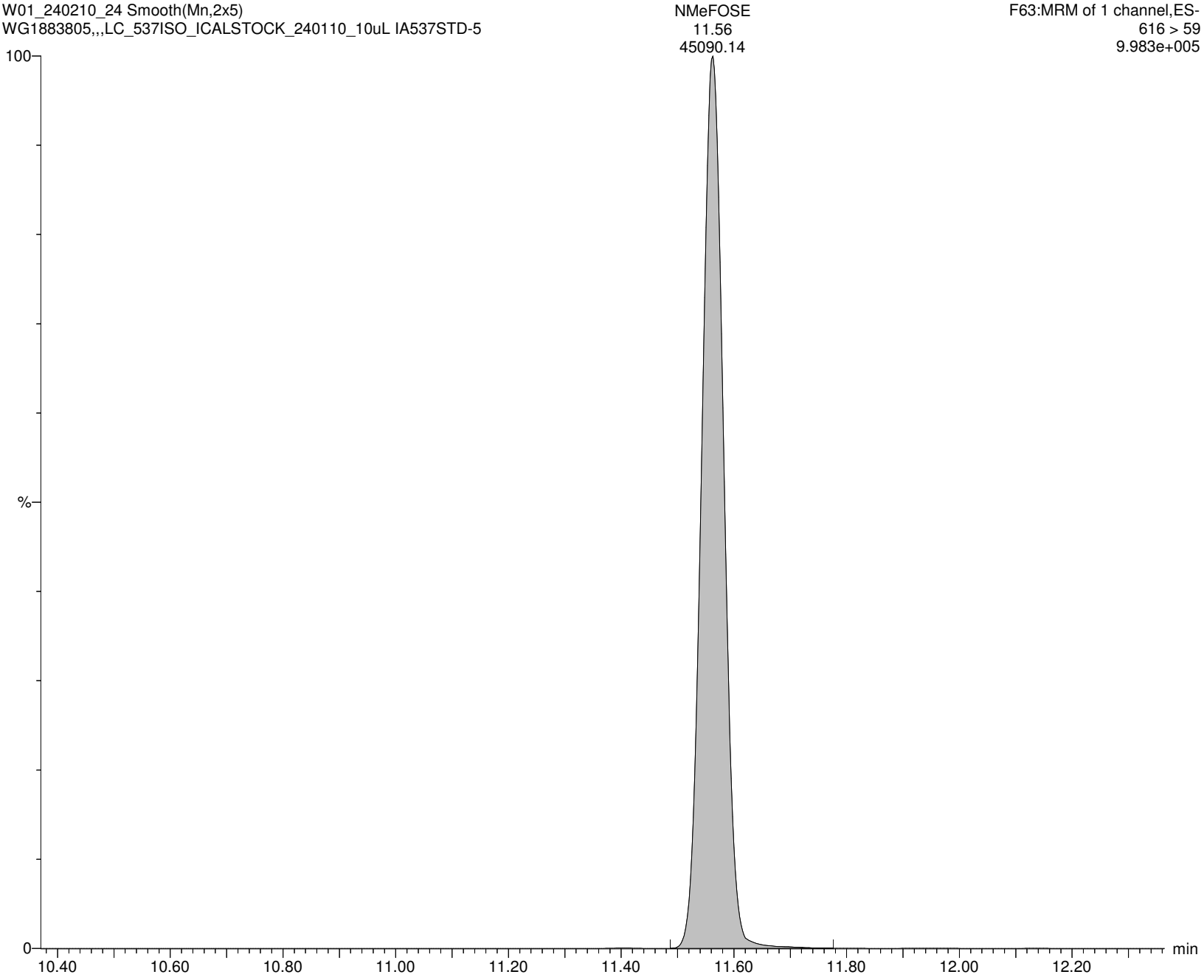
NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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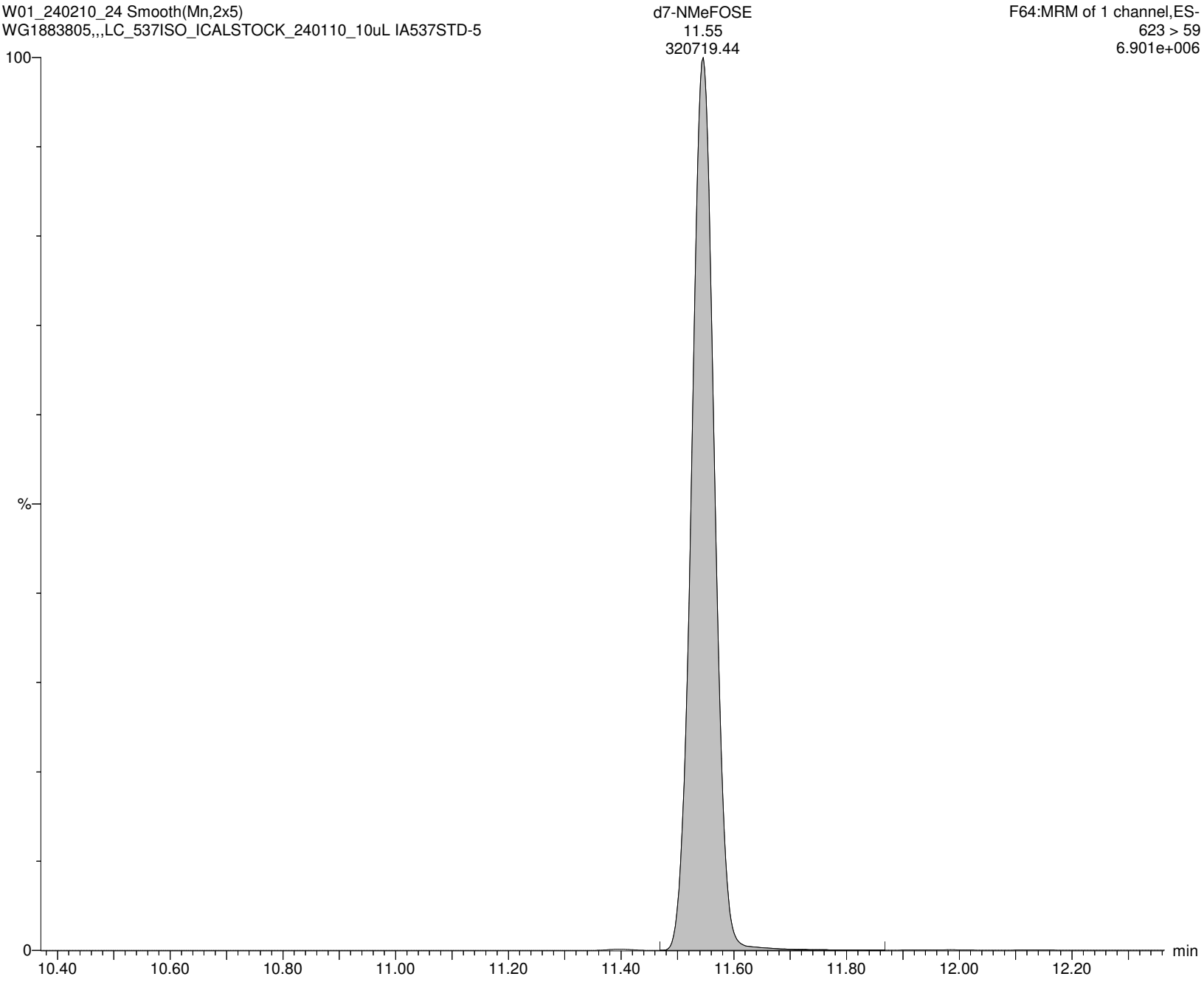

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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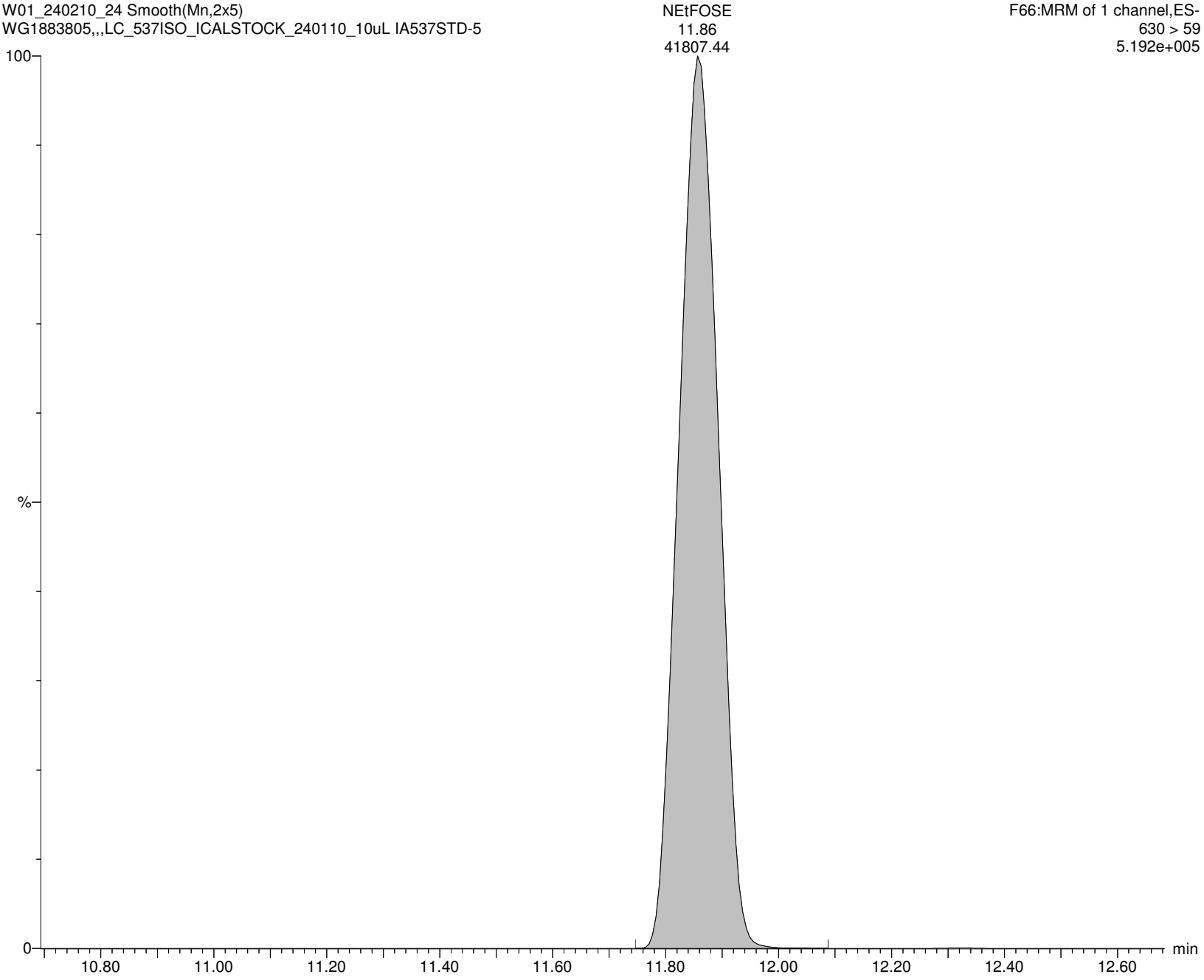
NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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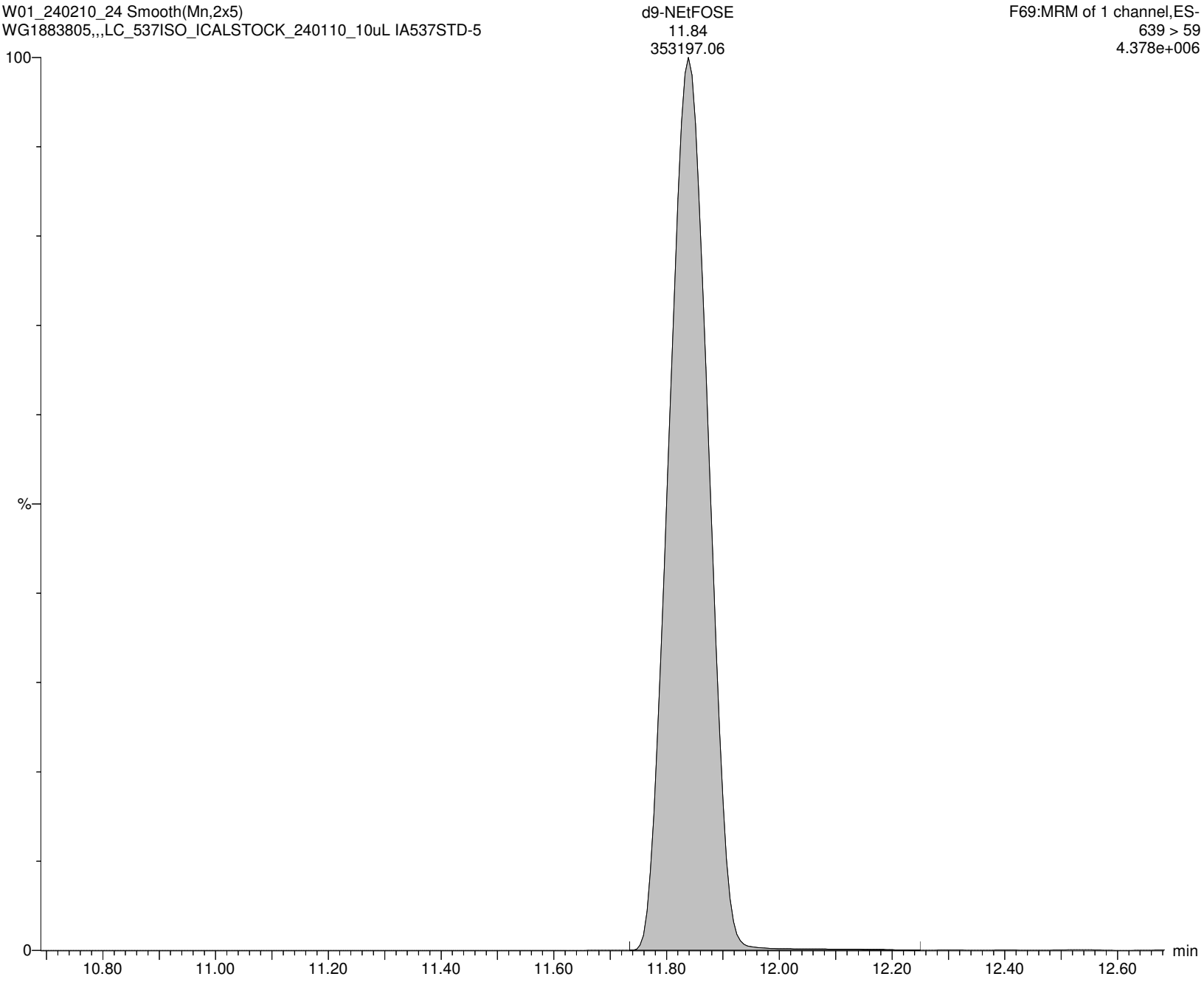
d9-NEtFOSE



all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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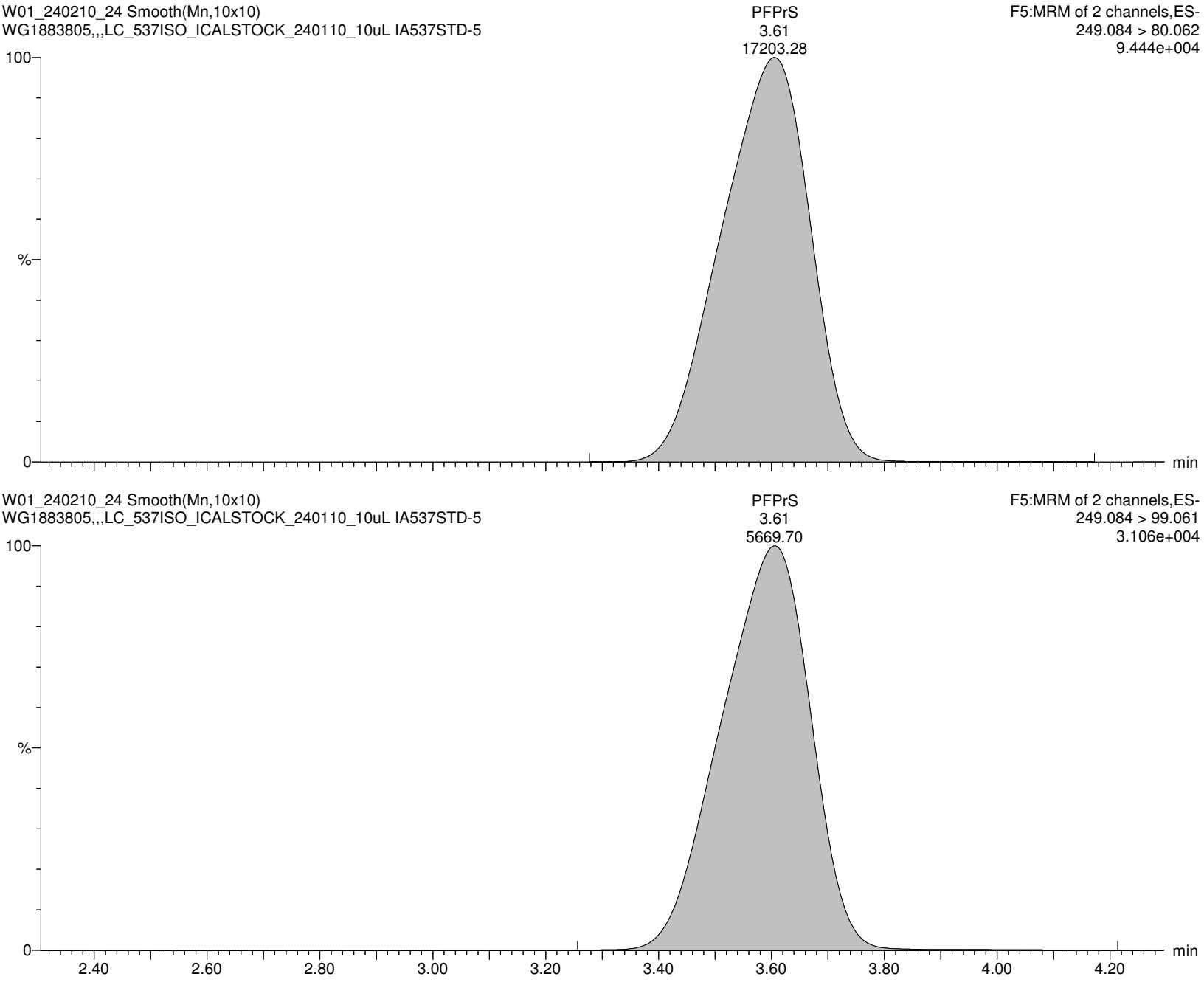

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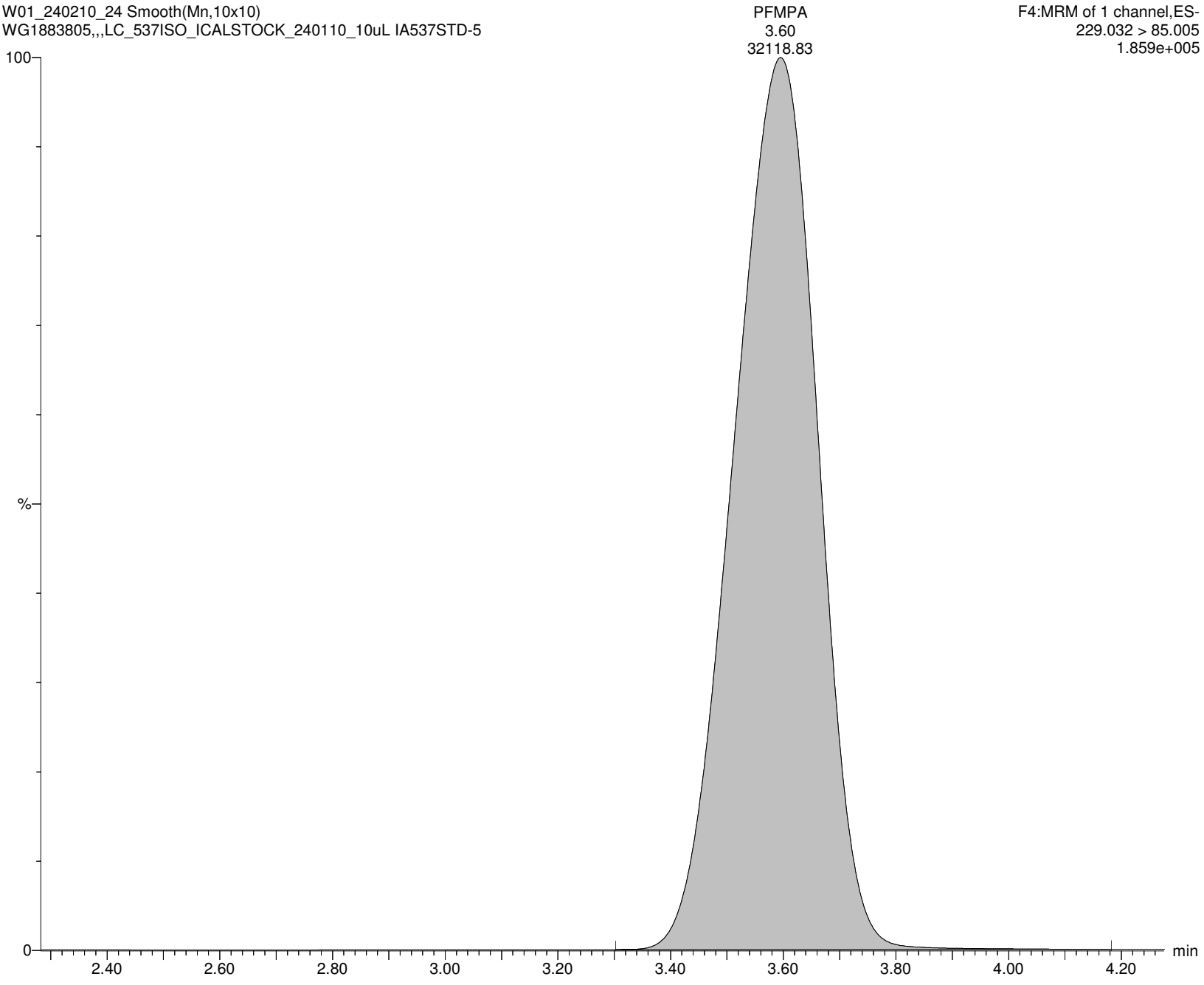

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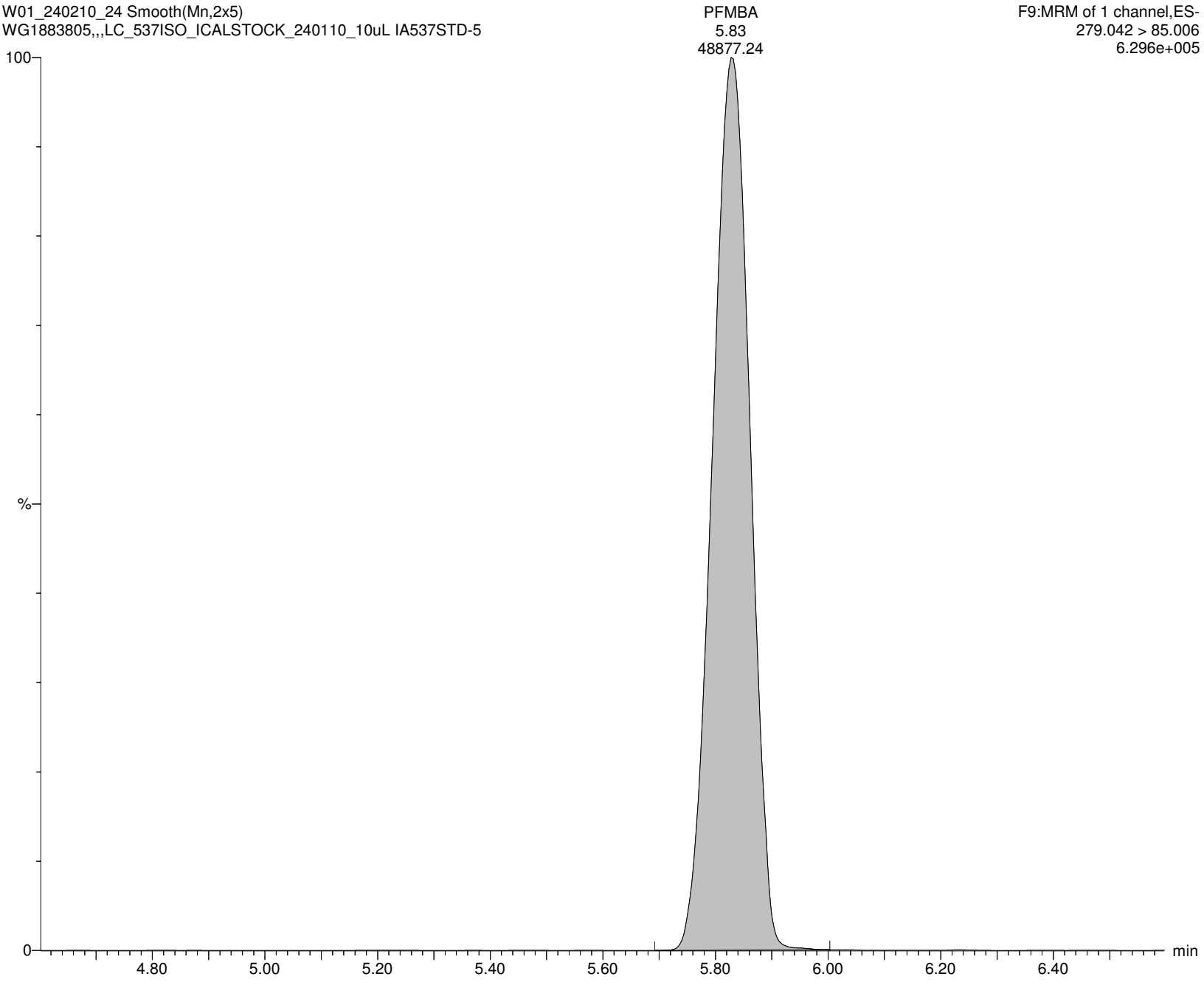

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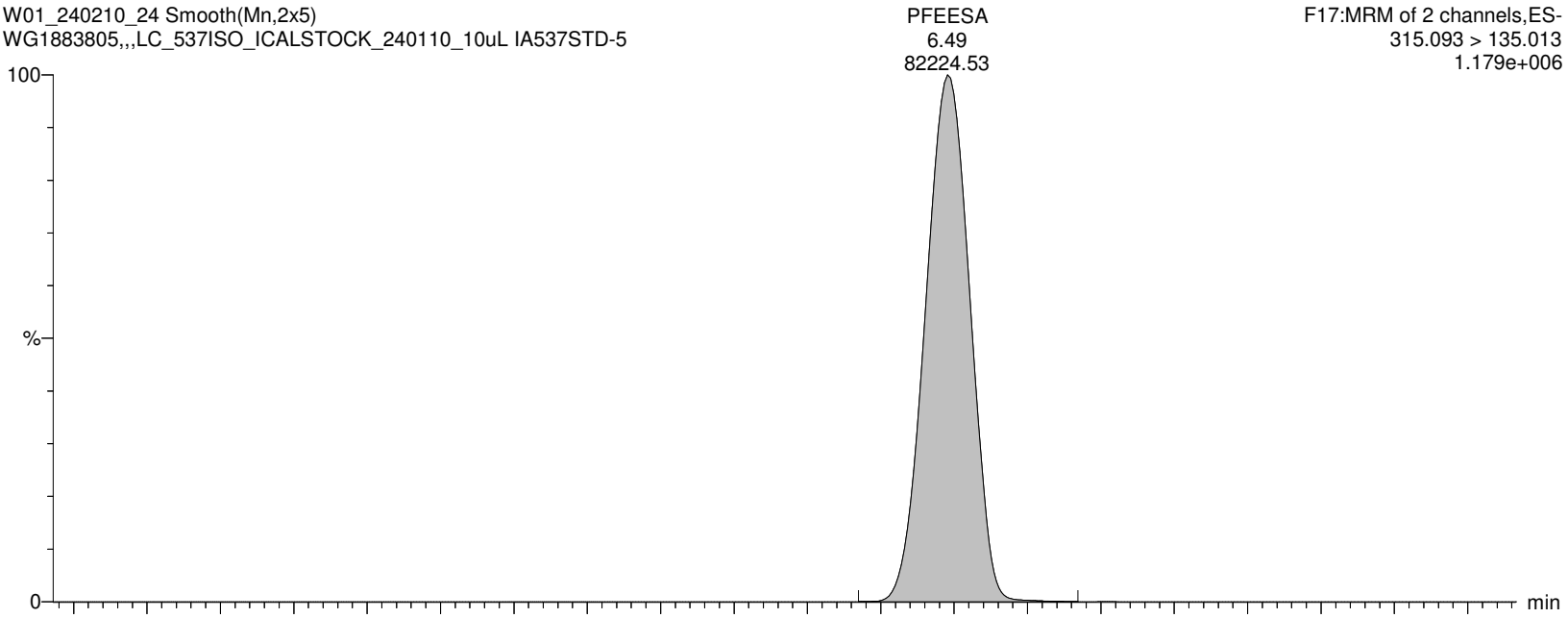
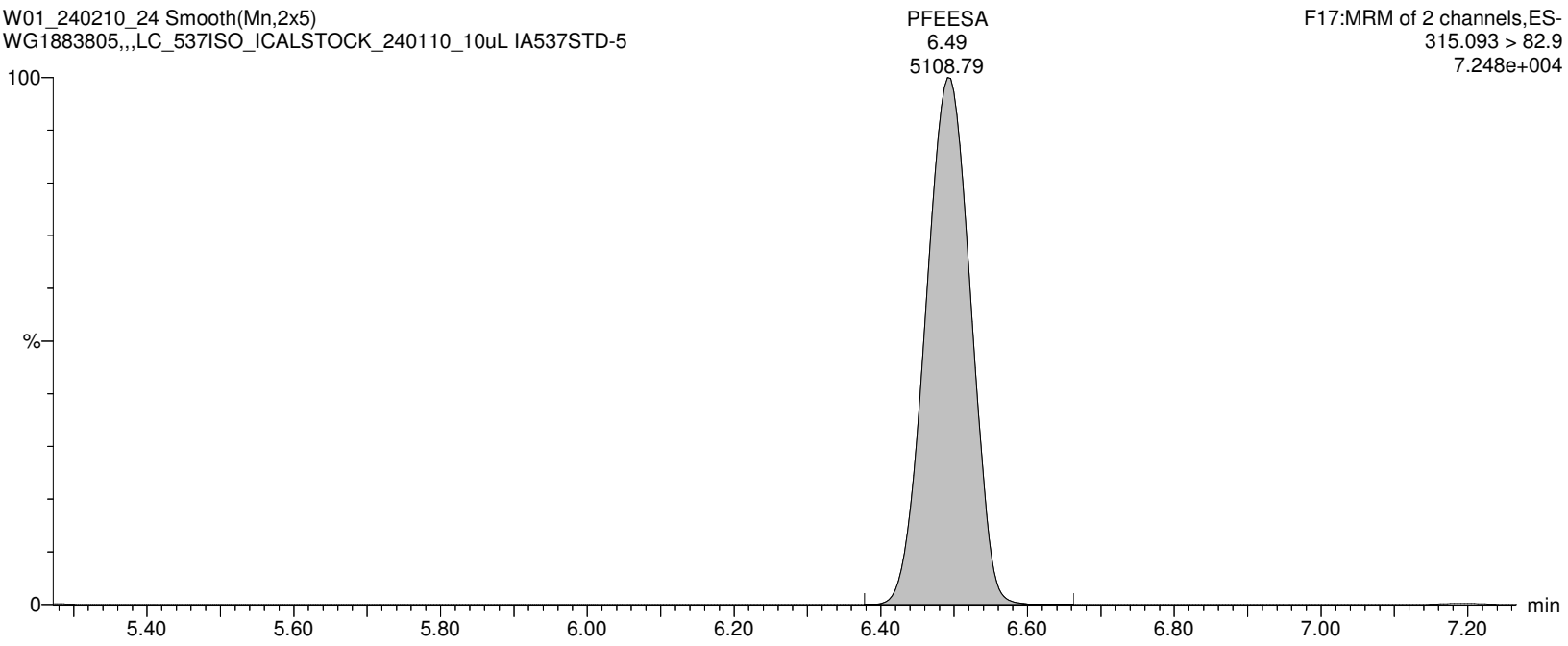
PFEESA





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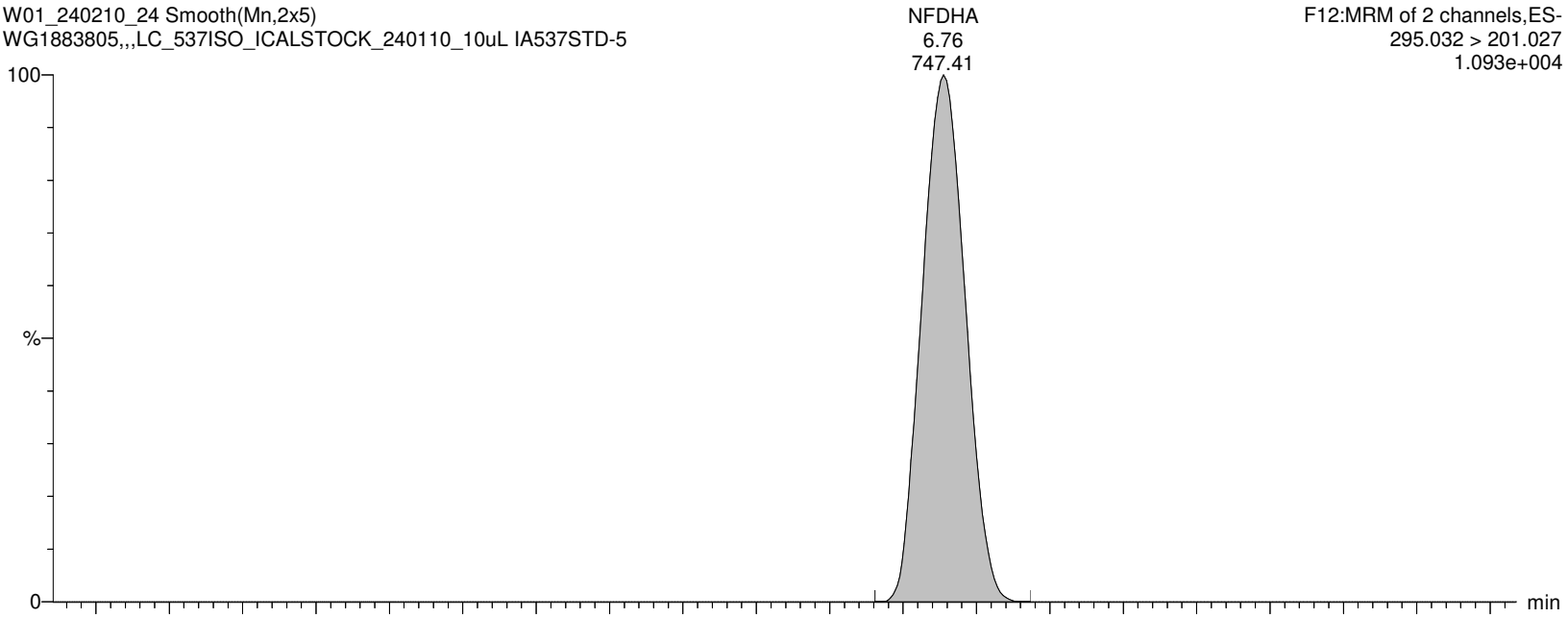
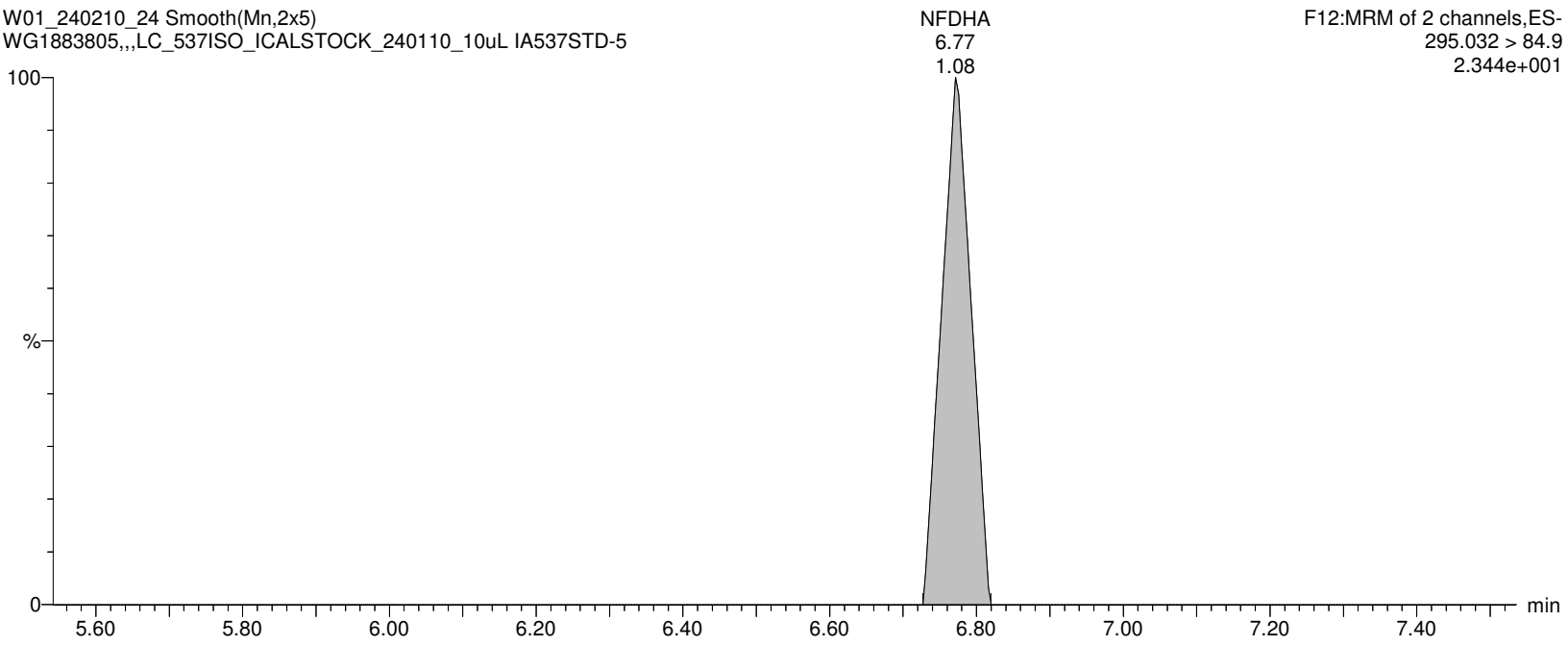
NFDHA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:15 Eastern Standard Time

Name: W01_240210_24
ID: IA537STD-5
Date: 10-Feb-2024
Time: 17:03:10
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User: LCMS01:SG
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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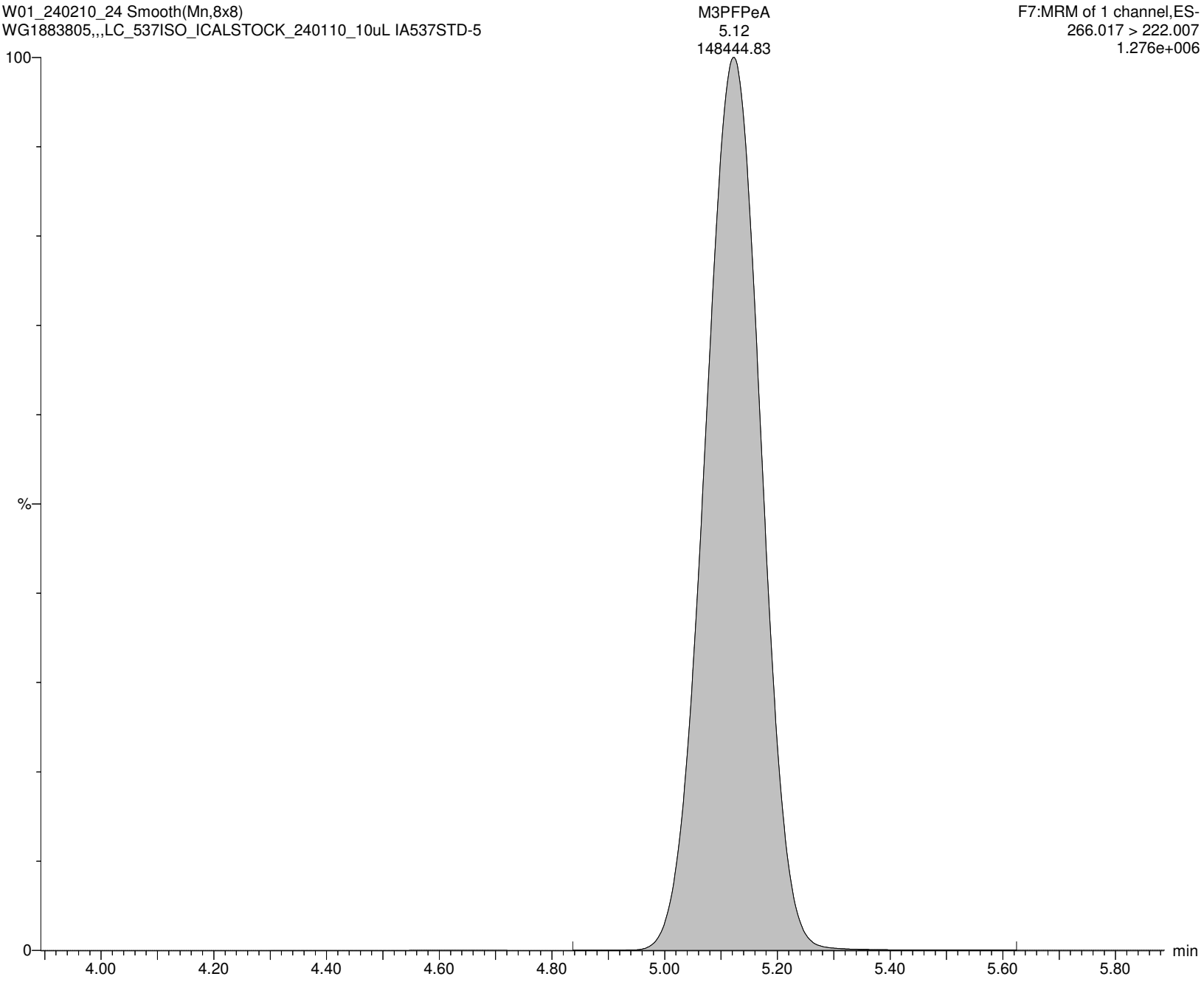

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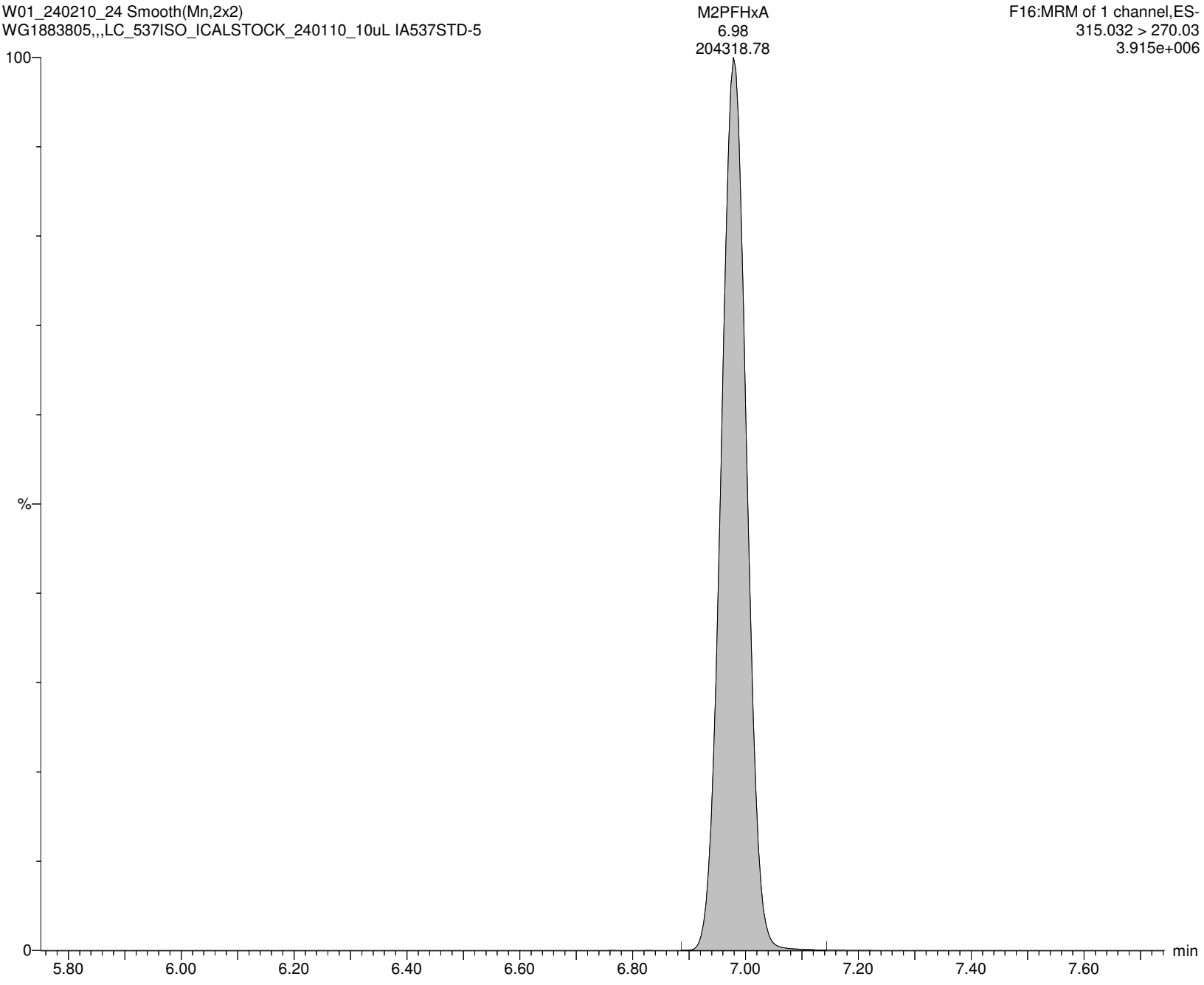

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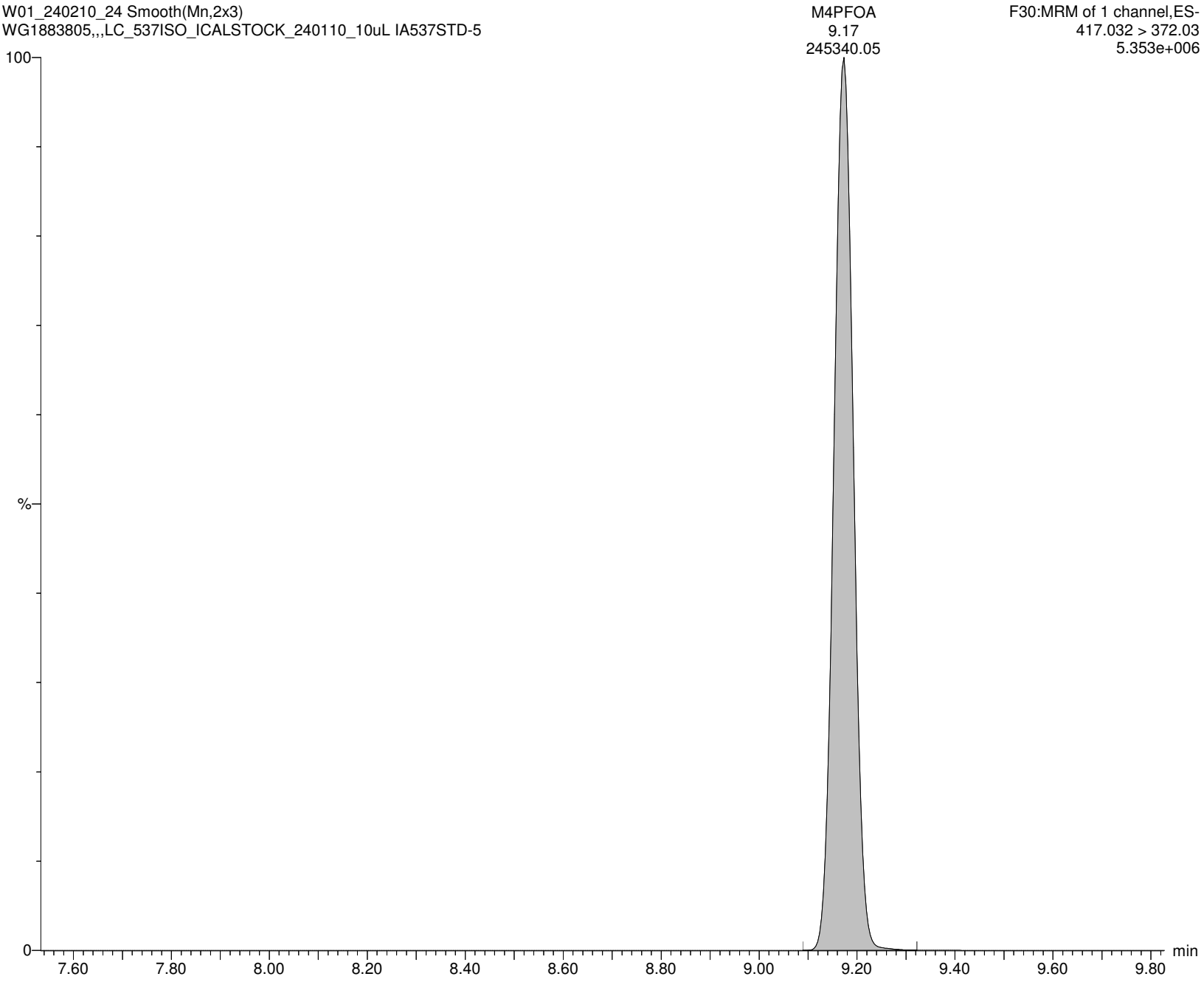

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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	79792		9.867		na	98.7
2	M3PFBA	INT STD	2.24	216.009 > 171.999	77372		10.088		na	100.9
3	MPFBA	INT STD	2.24	217.001 > 171.999	89277		10.141		na	101.4
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	95346		9.837		na	98.4
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	95877		10.430		na	104.3
6	PFBS	375-73-5	5.75	299.092 > 80.062	32608		8.734	1.81	NO	98.5
7	M3PFBS	INT STD	5.75	302.069 > 80.062	33695		9.414		na	101.0
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	9370		9.239	2.11	NO	98.6
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	9444		8.954		na	95.5
10	PFHxA	307-24-4	6.98	313.047 > 269.037	131343		9.914	14.14	NO	99.1
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	139505		10.084		na	100.8
12	PFPeS	2706-91-4	7.29	349.1 > 80.062	32922		8.459	1.52	NO	89.9
13	PFHpA	375-85-9	8.23	363.055 > 319.045	148033		9.926	4.45	NO	99.3
14	M4PFHpA	INT STD	8.23	367.025 > 322.022	148422		10.083		na	100.8
15	br-PFHxS	355-46-4	8.16	399.107 > 80.062	5683	M5,M7	1.510	1.92	NO	87.3
16	L-PFHxS	355-46-4	8.38	399.107 > 80.062	25661		6.570	1.42	NO	88.7
17	PFHxS	355-46-4		399.107 > 80.062	31344		8.080		na	
18	M3PFHxS	INT STD	8.38	402.084 > 80.062	34096		9.904		na	104.5
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.18	413.063 > 369.053	165398		10.022	11.52	NO	100.2
21	PFOA	335-67-1		413.063 > 369.053	165398		10.022		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	160523		10.036		na	100.4
23	M2PFOA	INT STD	9.18	415.048 > 370.045	158026		10.645		na	106.4
24	6:2FTS	27619-97-2	9.14	427.161 > 407.155	8690		9.406	3.50	NO	98.9
25	M2-6:2FTS	INT STD	9.14	429.146 > 409.14	10474		8.644		na	90.9
26	PFHpS	375-92-8	9.27	449.115 > 80.062	36321		10.167	1.56	NO	106.7
27	PFNA	375-95-1	9.96	463.071 > 419.061	171333		9.931	6.79	NO	99.3
28	M9PFNA	INT STD	9.96	472.002 > 427.	171216		10.304		na	103.0
29	br-PFOS	1763-23-1	9.81	499.123 > 80.062	8687	M5,M7	1.751	3.26	NO	89.3
30	L-PFOS	1763-23-1	10.01	499.123 > 80.062	29570		6.843	1.57	NO	93.5
31	PFOS	1763-23-1		499.123 > 80.062	38257		8.594		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	37683		10.175		na	106.0
33	M8PFOS	INT STD	10.00	507.062 > 80.062	38605		9.603		na	100.1
34	PFDA	335-76-2	10.61	513.078 > 469.069	140702		9.663	5.07	NO	96.6
35	M2PFDA	INT STD	10.61	515.063 > 470.061	142807		10.644		na	106.4
36	M6PFDA	INT STD	10.61	519.033 > 474.03	149609		10.508		na	105.1
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	9343		9.127	2.93	NO	95.1
38	M2-8:2FTS	INT STD	10.60	529.162 > 509.155	12113		9.454		na	98.5
39	PFNS	68259-12-1	10.63	549.131 > 80.062	39586		9.262	2.04	NO	96.3

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Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_20uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.99	573.22 > 419.061	20558		9.401		na	94.0
41	br-NMeFOSAA	2355-31-9	10.82	570.202 > 419.061	1382	M5,M7	2.275	1.07	NO	94.8
42	L-NMeFOSAA	2355-31-9	10.99	570.202 > 419.061	11432		8.078	2.36	NO	106.3
43	NMeFOSAA	2355-31-9		570.202 > 419.061	12814		10.353		na	
44	PFUnA	2058-94-8	11.18	563.086 > 519.076	156610		9.449	6.55	NO	94.5
45	M7-PFUDA	INT STD	11.18	570.033 > 525.031	160161		10.325		na	103.2
46	PFDS	335-77-3	11.19	598.926 > 80.062	36059		9.356	1.77	NO	97.0
47	FOSA	754-91-6	10.95	498.146 > 78.07	104752		9.252	41.06	NO	92.5
48	M8FOSA	INT STD	10.95	506.077 > 78.07	102639		9.804		na	98.0
49	d5-NEtFOSAA	INT STD	11.28	589.259 > 419.061	18896		9.168		na	91.7
50	br-NEtFOSAA	2991-50-6	11.14	584.229 > 419.061	1520	M5,M7	2.136	0.88	NO	95.0
51	L-NEtFOSAA	2991-50-6	11.30	584.229 > 419.061	10891		7.191	1.41	NO	92.8
52	NEtFOSAA	2991-50-6		584.229 > 419.061	12411		9.328		na	
53	PFDoA	307-55-1	11.67	613.094 > 569.084	184428		9.669	7.22	NO	96.7
54	MPFDOA	INT STD	11.67	615.079 > 570.077	176852		10.158		na	101.6
55	PFTrDA	72629-94-8	12.10	663.102 > 619.092	132185		10.263	9.30	NO	102.6
56	PFTA	376-06-7	12.47	713.11 > 669.1	166205		9.225	15.45	NO	92.2
57	M2PFTEDA	INT STD	12.47	715.094 > 670.092	162550		10.352		na	103.5
58	M3HFPO-DA	INT STD	7.40	287.02 > 169.022	206714		230.270		na	115.1
59	HFPO-DA	13252-13-6	7.40	285.035 > 169.022	59716		78.179	30.37	NO	78.2
60	ADONA	958445-44-8	8.40	377.06 > 251.028	175825		9.797	86.99	NO	103.7
61	PFHxDA		12.84	813.122 > 769.116	275014		9.659	53.49	NO	96.6
62	PFODA		13.06	913.411 > 869.131	74422		9.186	99.54	NO	91.9
63	M2PFHxDA		12.84	815.102 > 770.108	260392		10.707		na	107.1
64	PFDoS		12.09	699.154 > 80.062	35476		9.342	1.53	NO	96.5
65	M2D4-10:2FTS		11.68	633.201 > 612.189	12053		21.852		na	111.5
66	10:2FTS		11.68	627.192 > 607.186	8524	M4,M7	9.054	2.99	NO	93.7
67	9CL-PF3ONS		10.36	531.096 > 351.07	87403		8.691	2.36	NO	93.1
68	11CL-PFOUdS		11.46	631.096 > 451.076	84452		8.725	3.00	NO	92.5
69	NMeFOSA		11.58	512.163 > 169.022	161408		50.277	1.57	NO	100.6
70	d3-NMeFOSA		11.57	515.183 > 169.022	310001		104.931		na	104.9
71	NEtFOSA		11.89	526.192 > 169.022	160741		48.573	8.69	NO	97.1
72	d5-NEtFOSA		11.88	531.222 > 169.022	318225		106.812		na	106.8
73	NMeFOSE		11.59	616 > 59	90552		21.193		na	84.8
74	d7-NMeFOSE		11.57	623 > 59	348166		107.375		na	107.4
75	NEtFOSE		11.88	630 > 59	83082		26.416		na	105.7
76	d9-NEtFOSE		11.86	639 > 59	320609		90.816		na	90.8
77	PFPrS		3.61	249.084 > 80.062	34961		8.318	3.07	NO	90.4
78	PFMPA		3.60	229.032 > 85.005	64490		9.599		na	96.0
79	PFMBA		5.82	279.042 > 85.006	98753		10.432		na	104.3
80	PFEESA		6.49	315.093 > 135.013	165273		7.831	15.95	NO	88.0
81	NFDHA		6.76	295.032 > 201.027	1962	M7	9.560	119.49	NO	95.6
82	M3PFPeA		5.12	266.017 > 222.007	99717		7.538		na	75.4

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.98	315.032 > 270.03	134385		6.966		na	69.7
84	M4PFOA		9.18	417.032 > 372.03	157485		7.091		na	70.9

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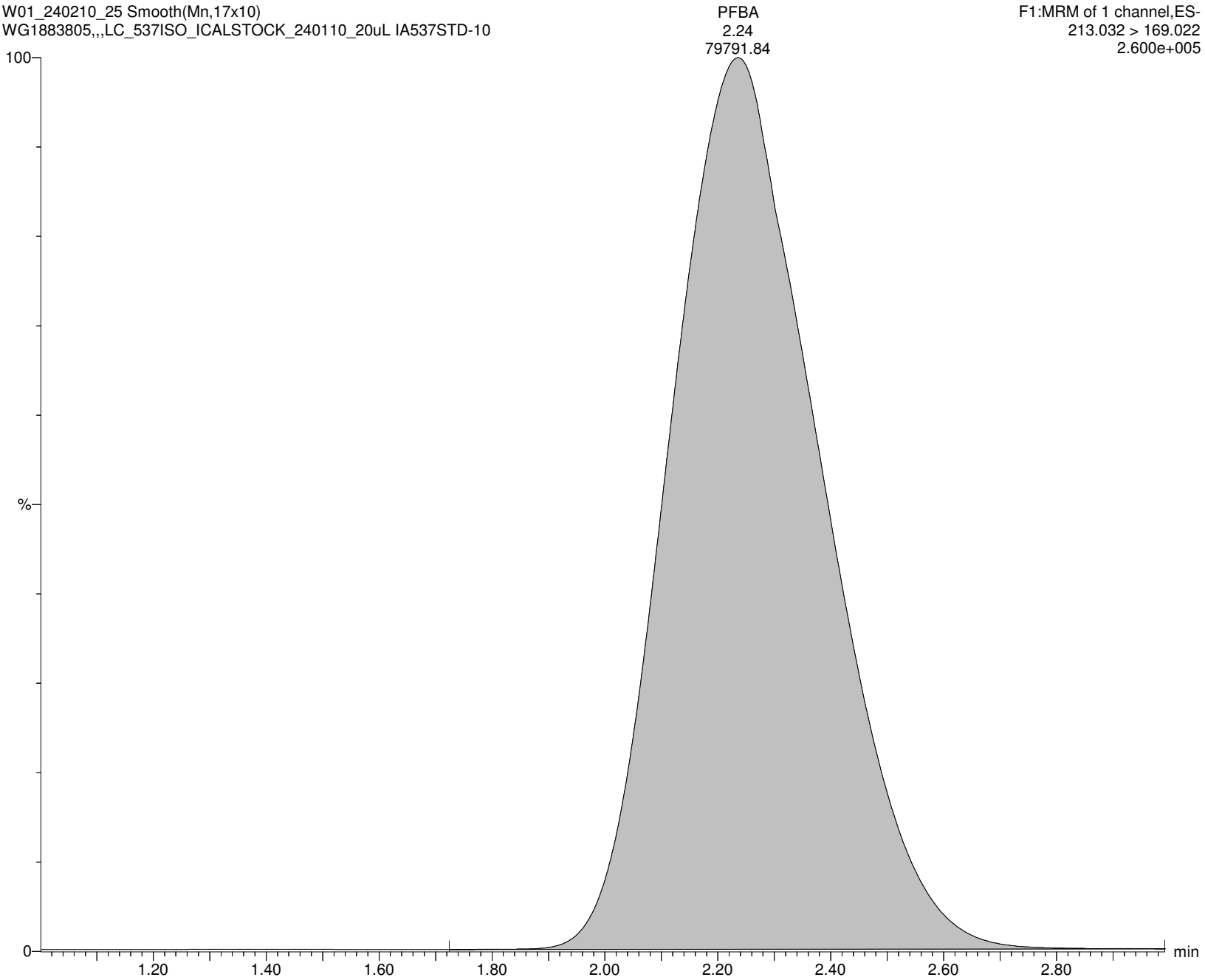

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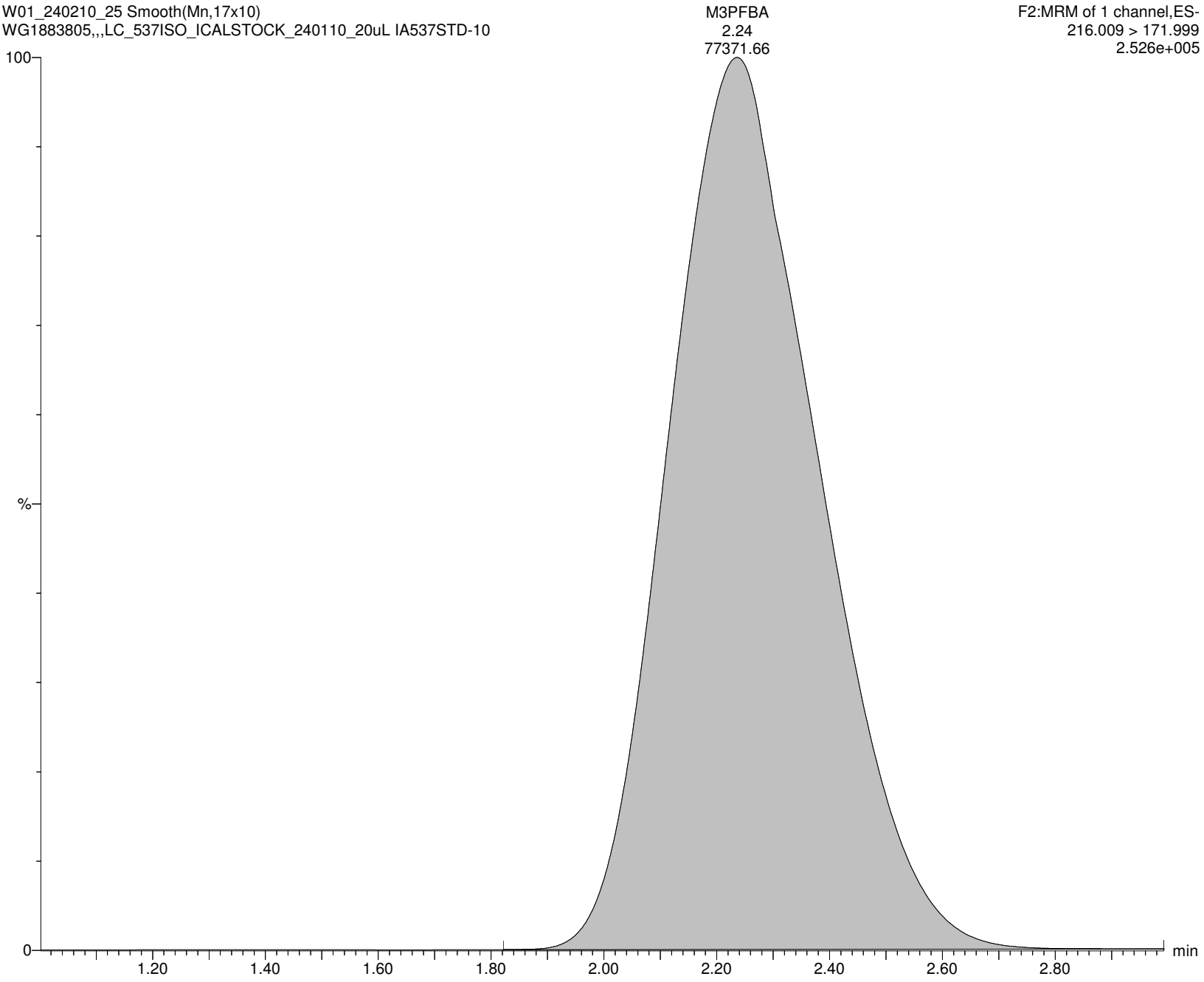

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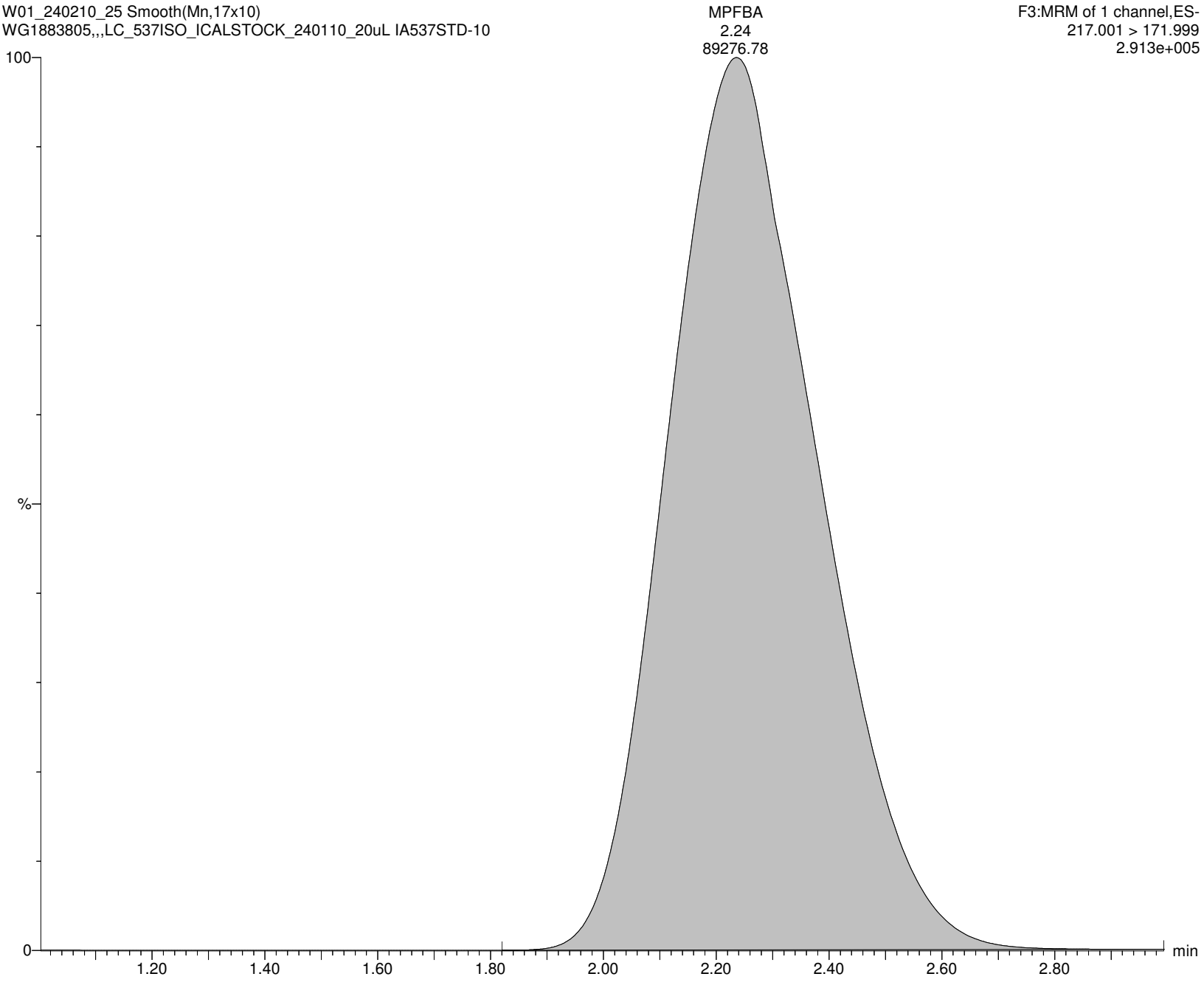
MPFBA



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User: LCMS01:SG
Vial: 1:B,5
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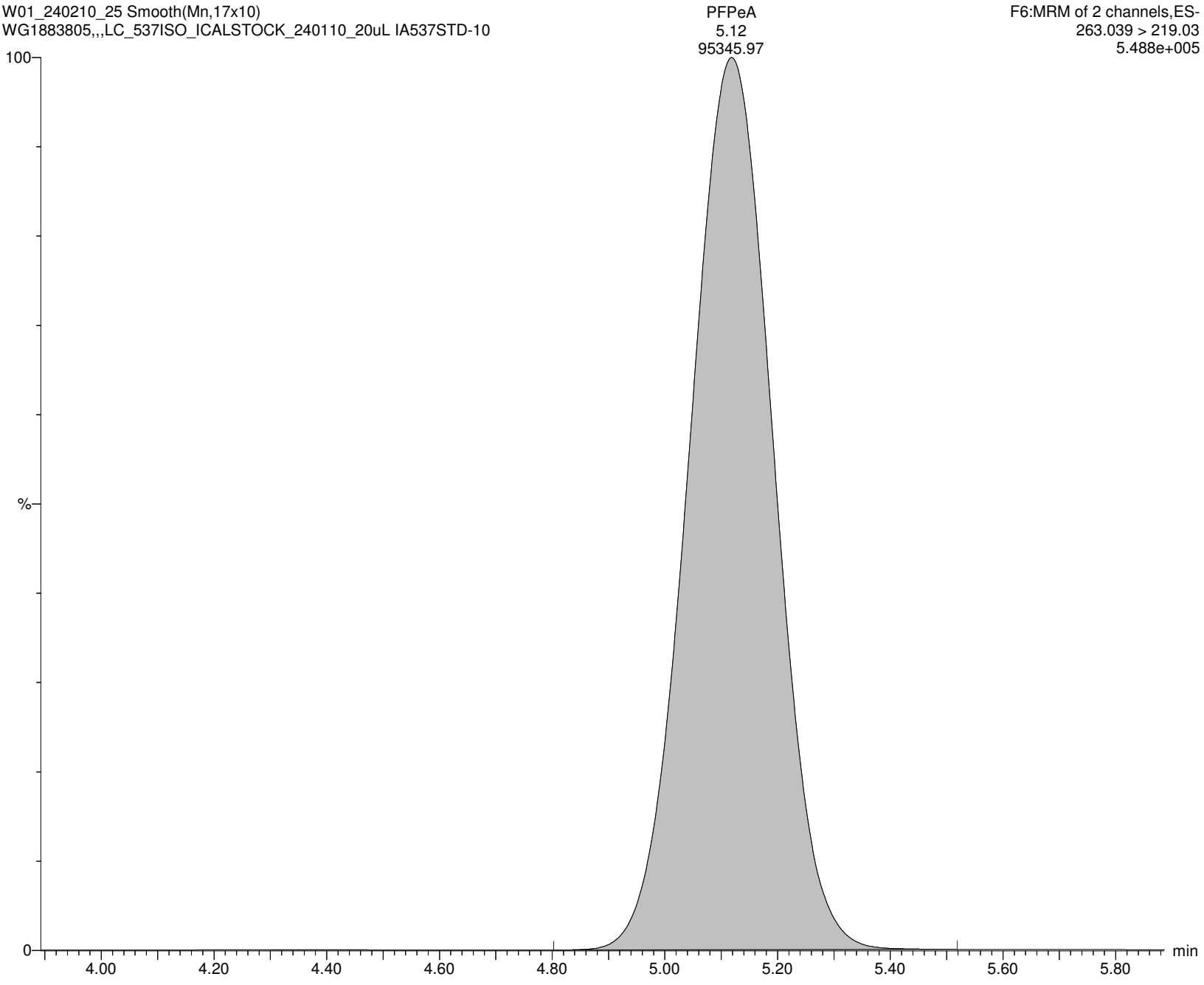

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

Name: W01_240210_25
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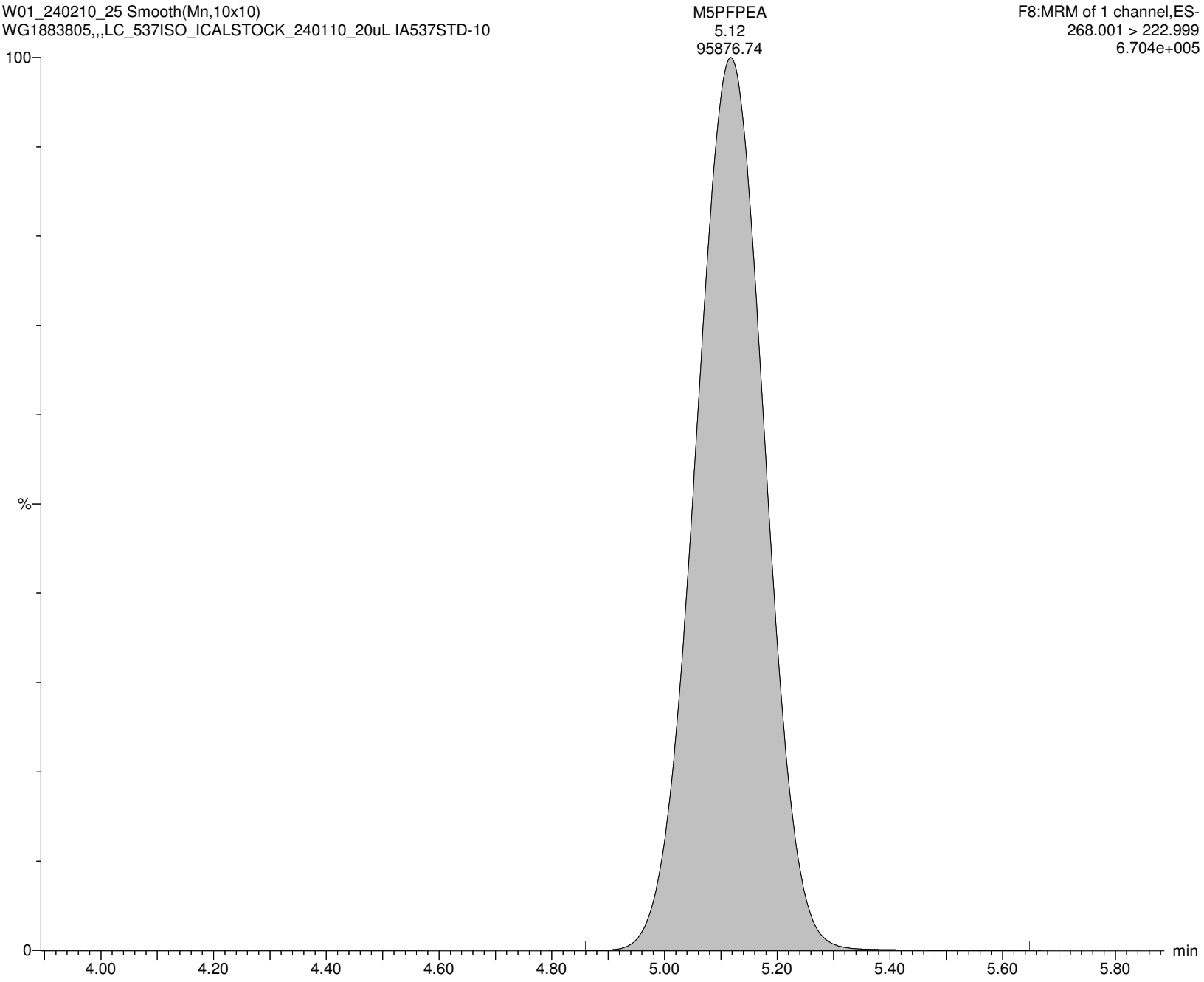

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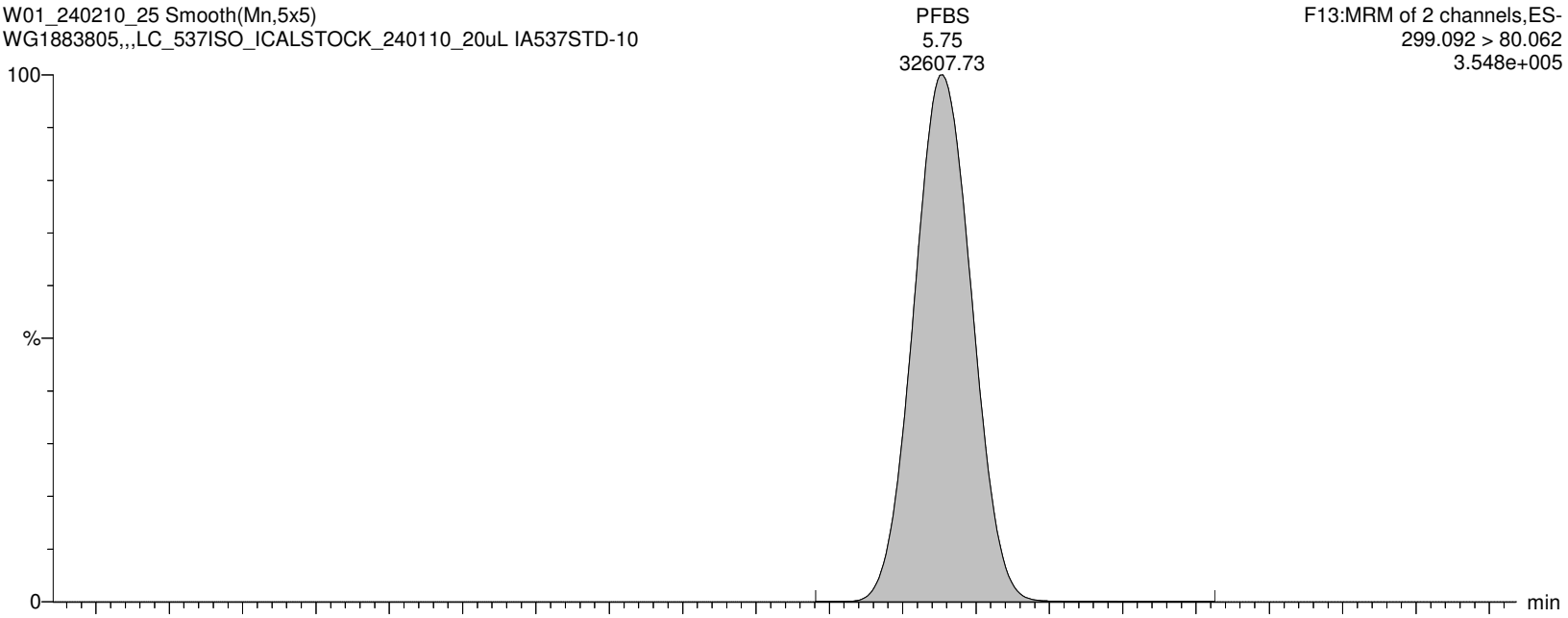

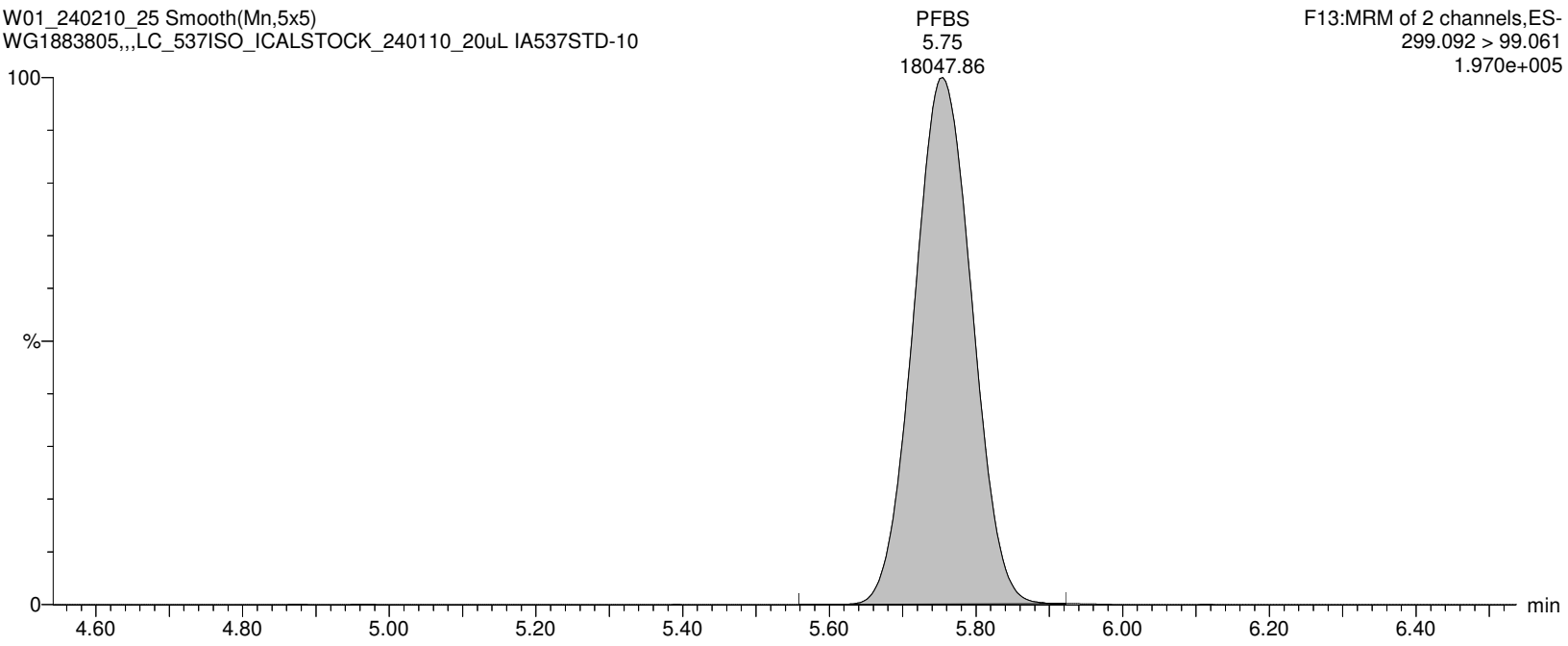

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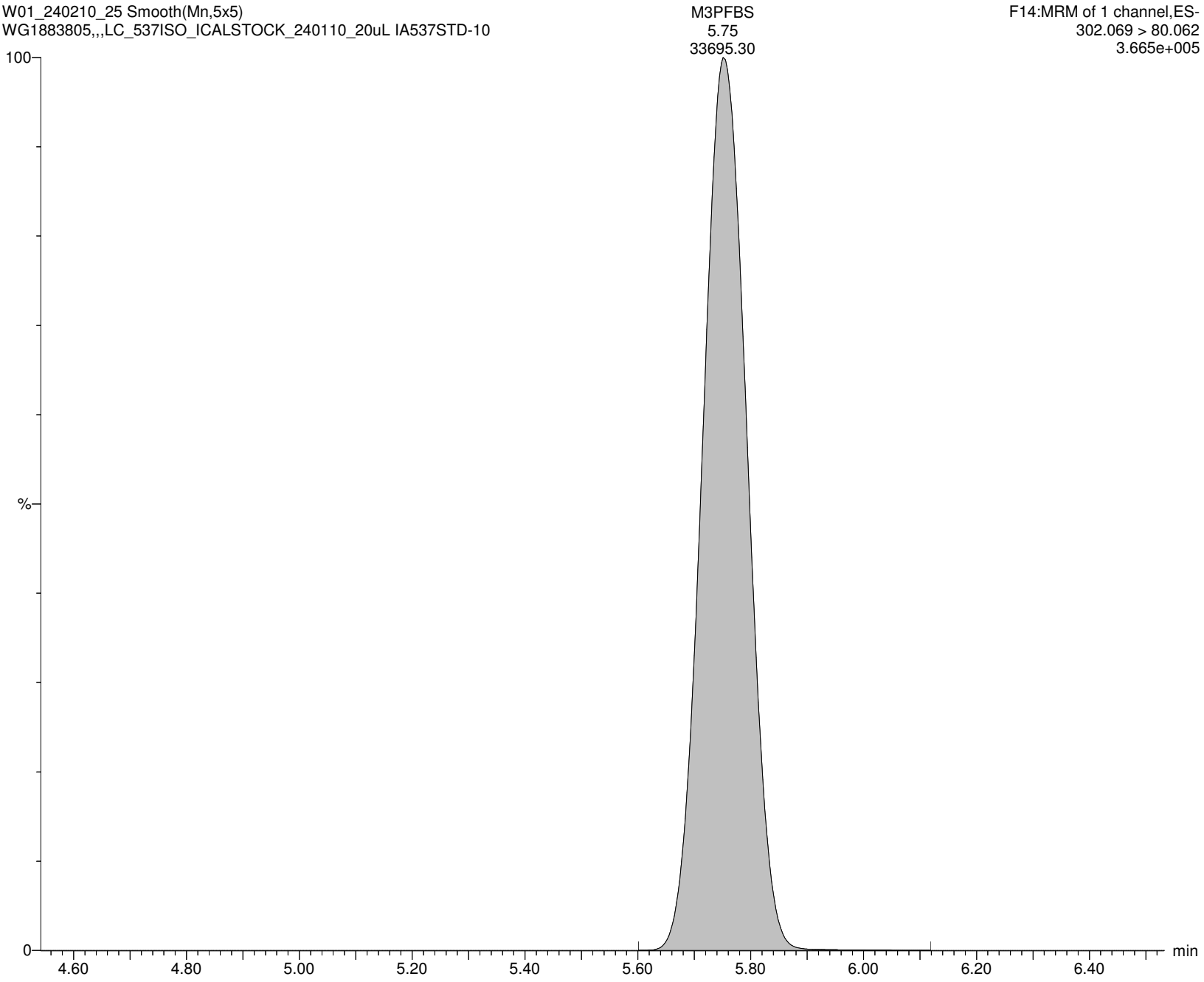

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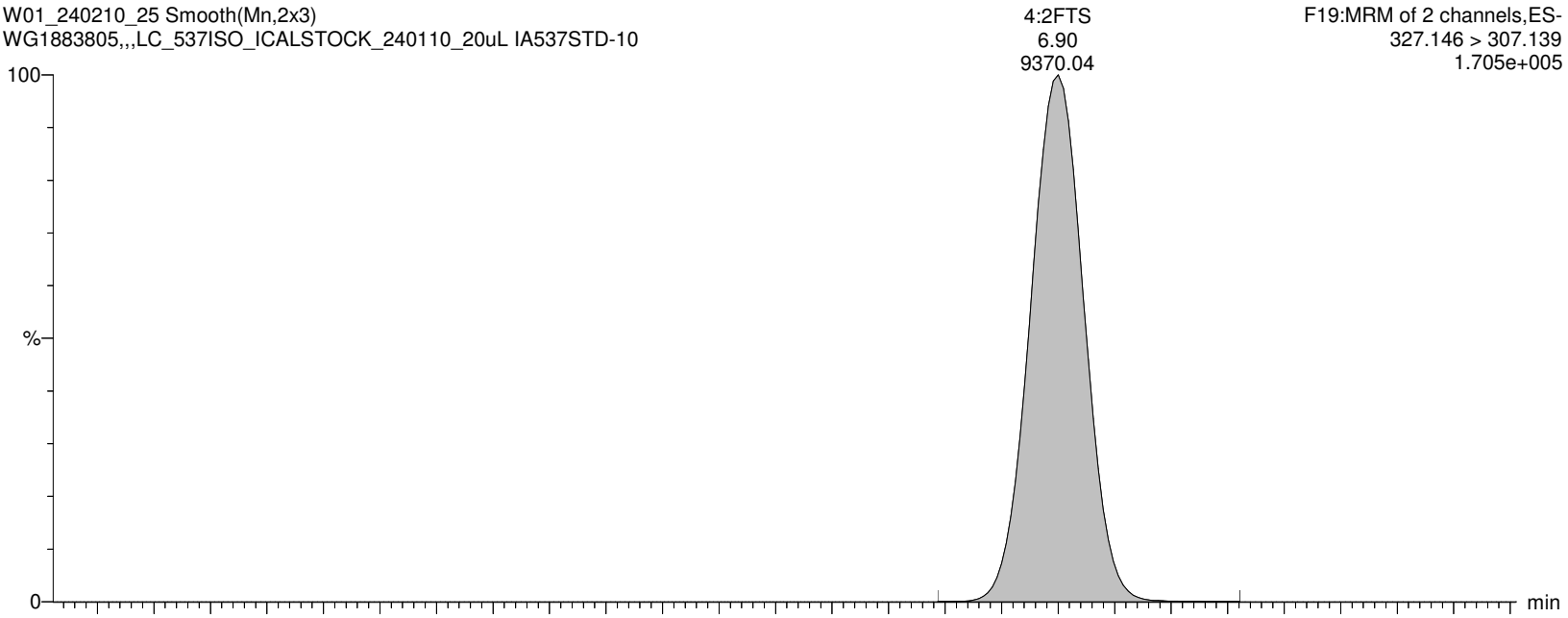

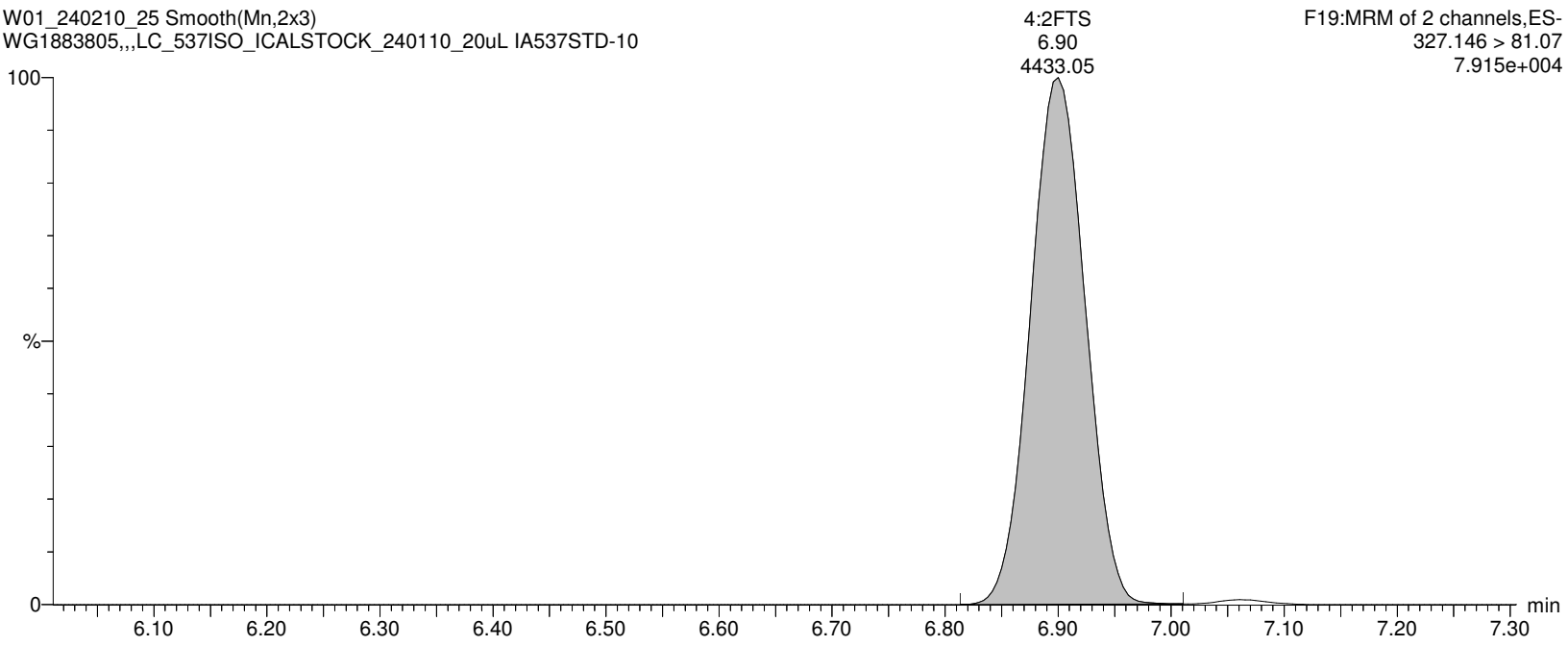

all concentration units in (ng/mL)

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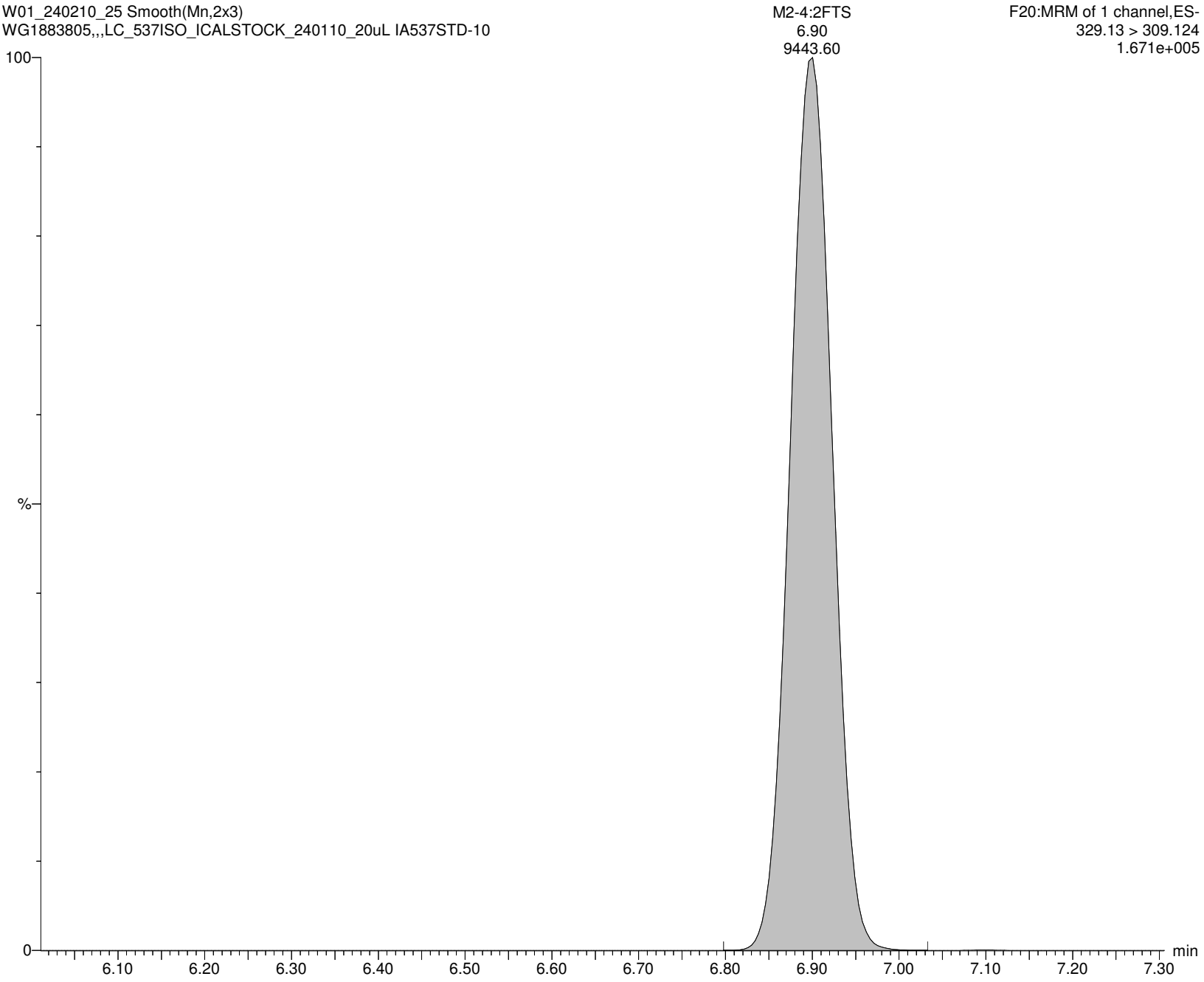

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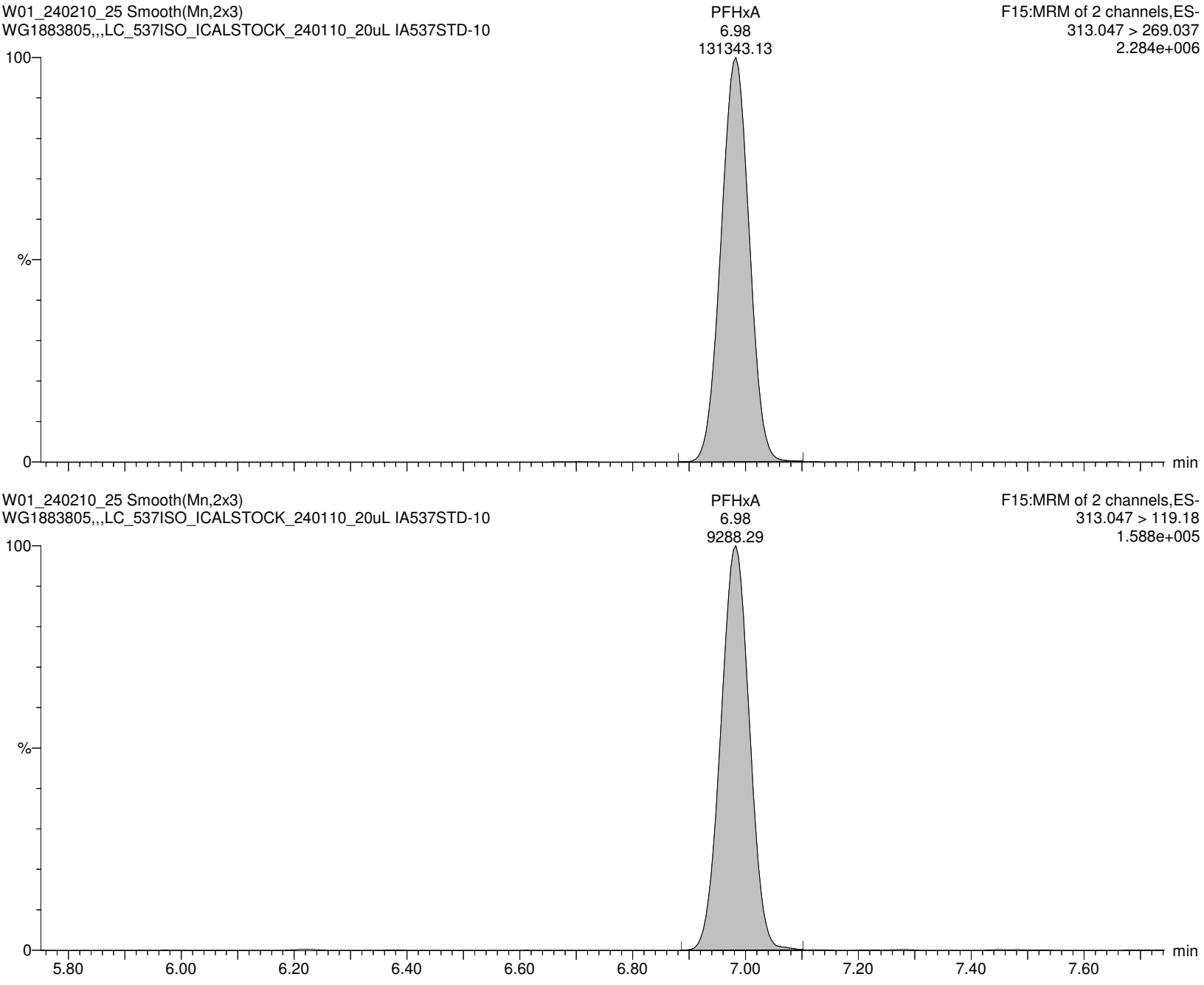

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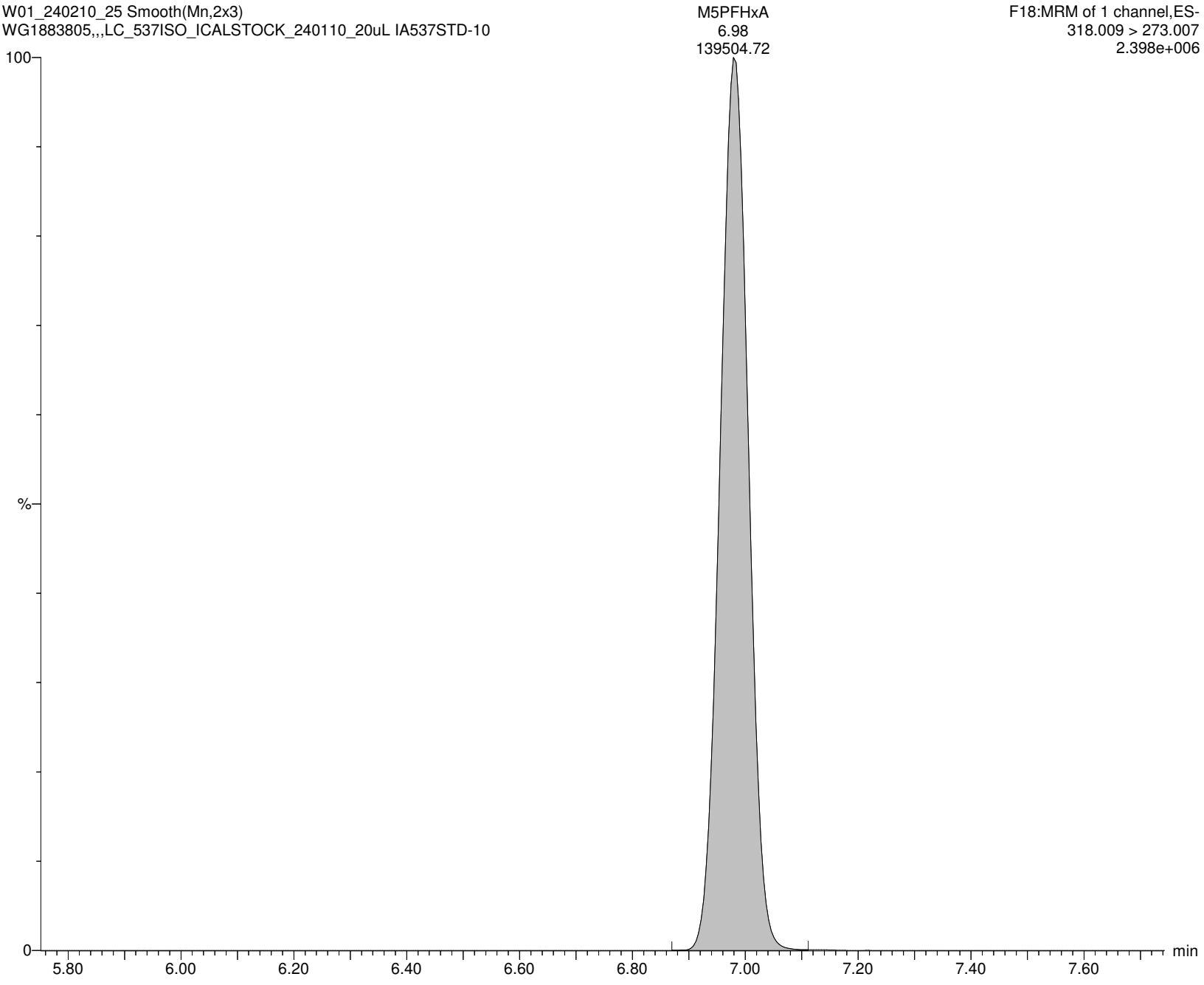

all concentration units in (ng/mL)

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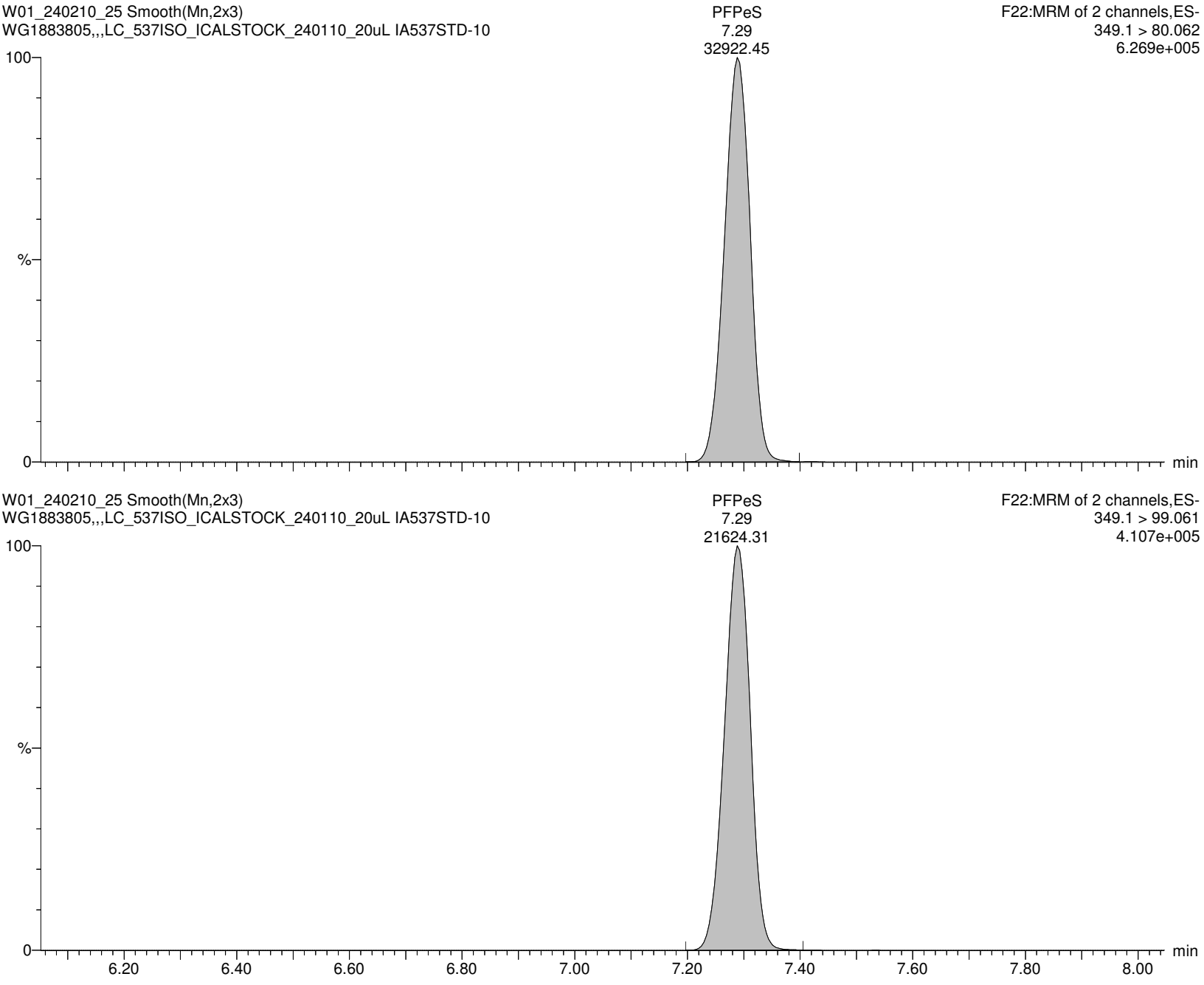

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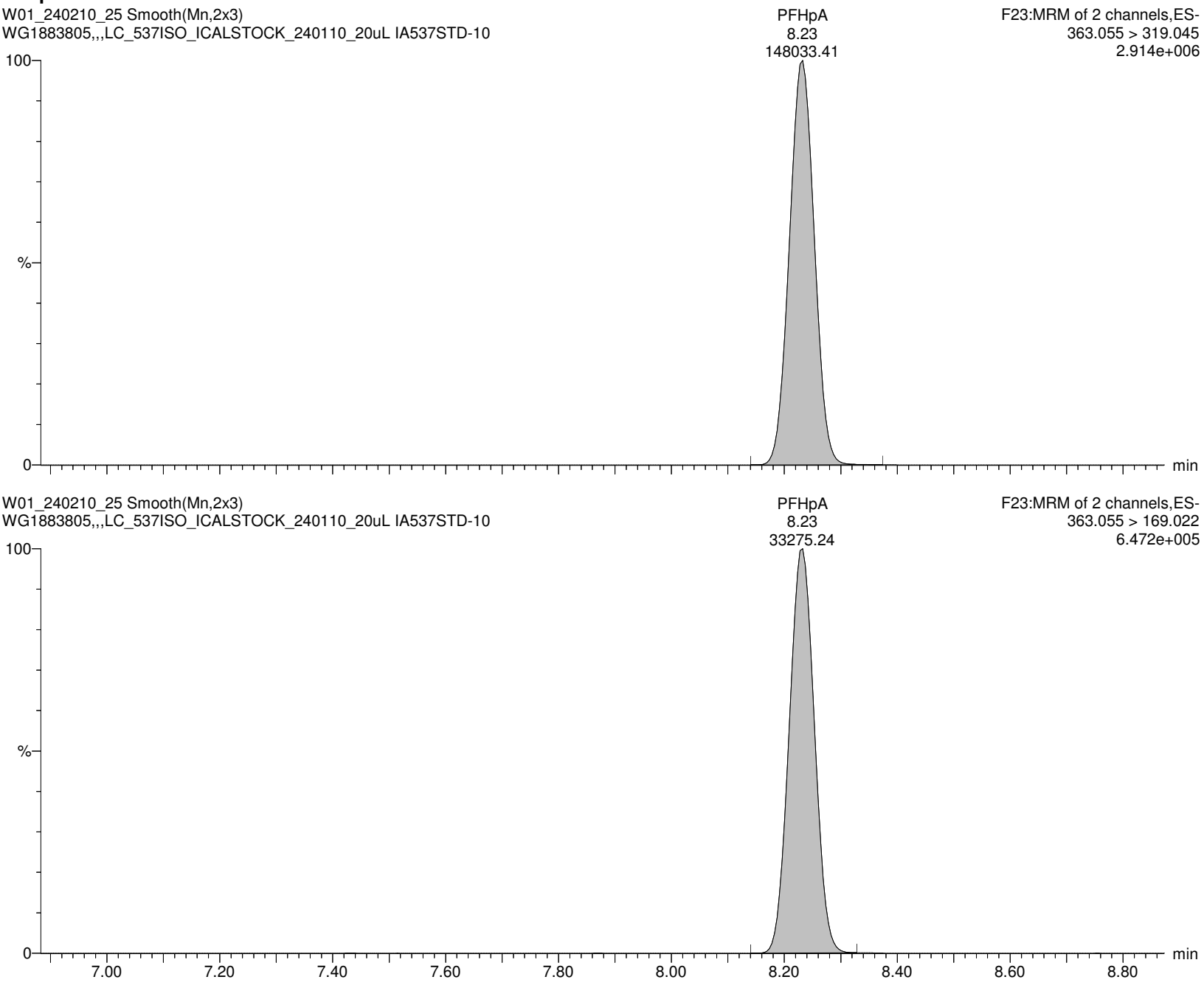

all concentration units in (ng/mL)

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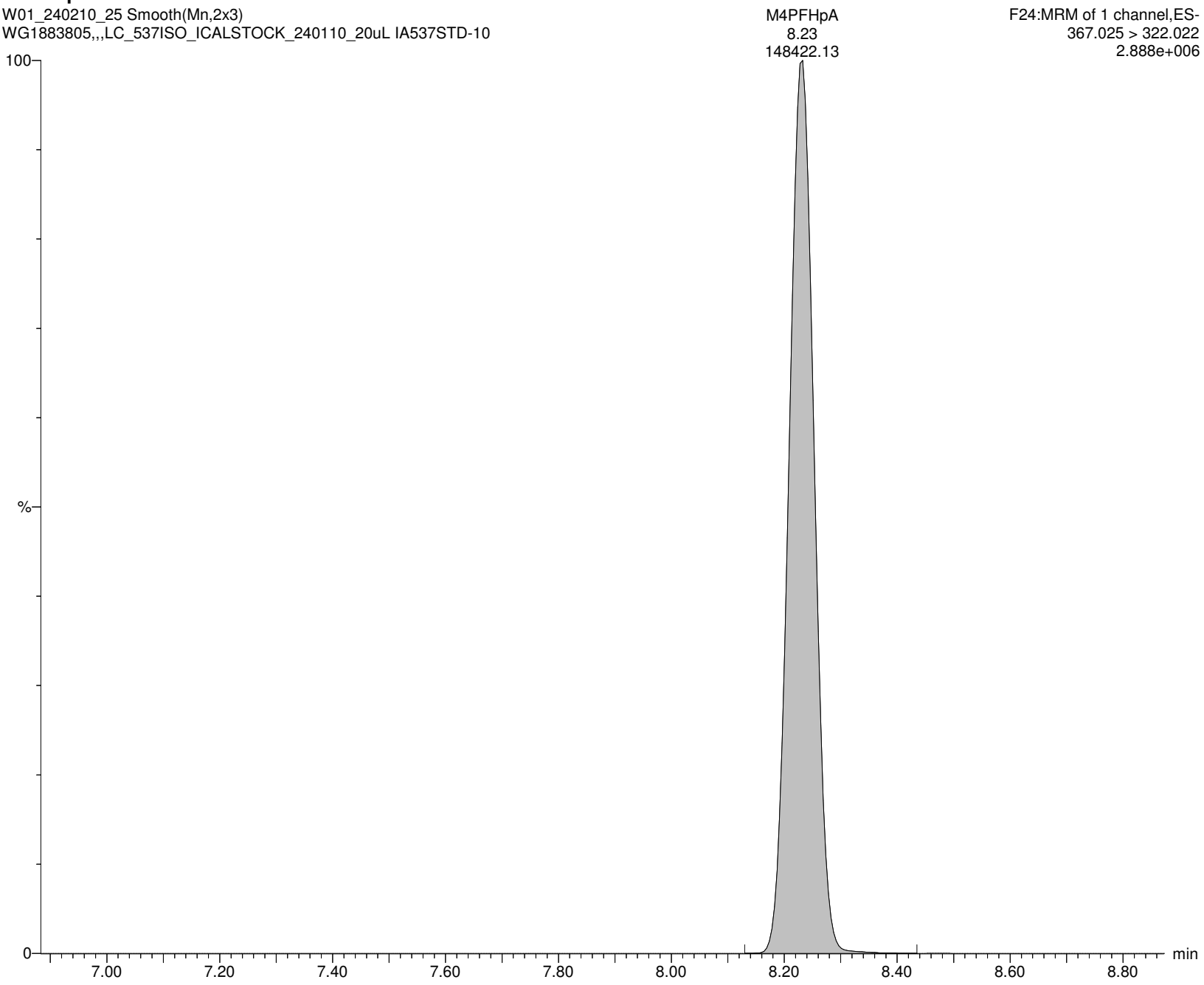

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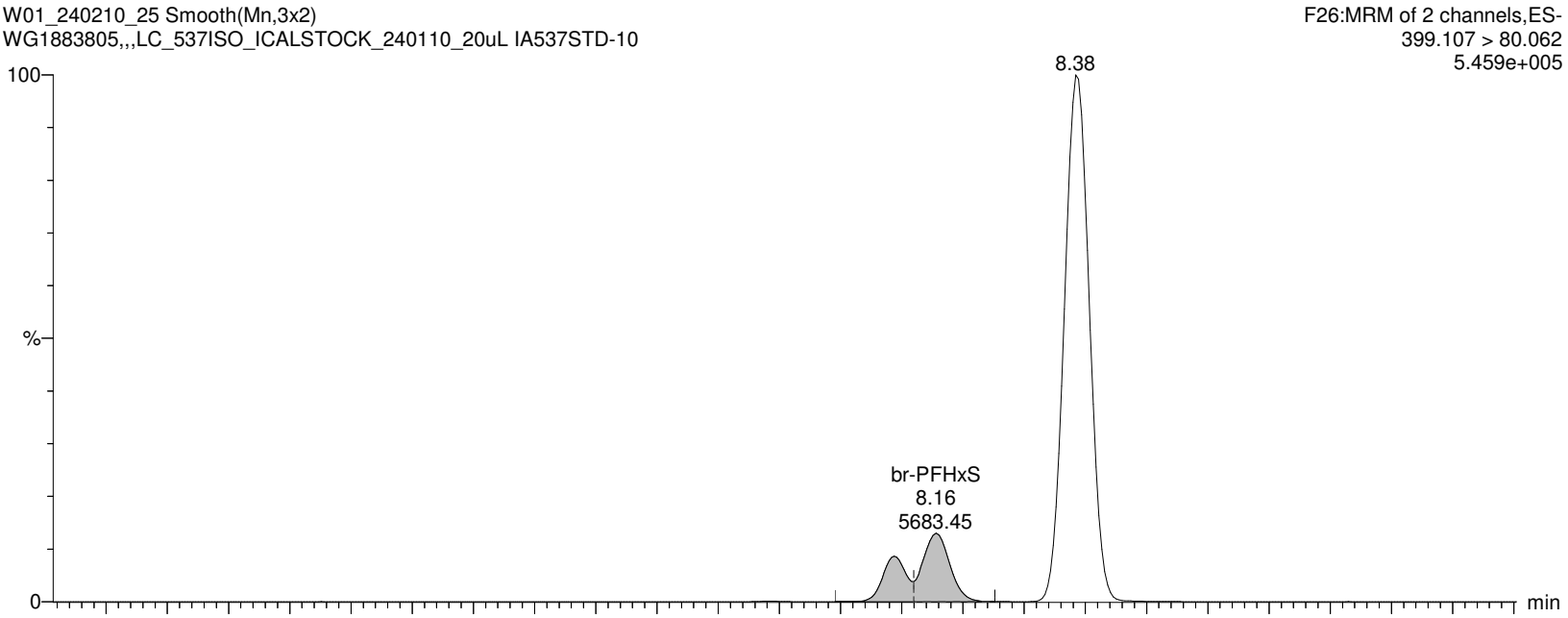

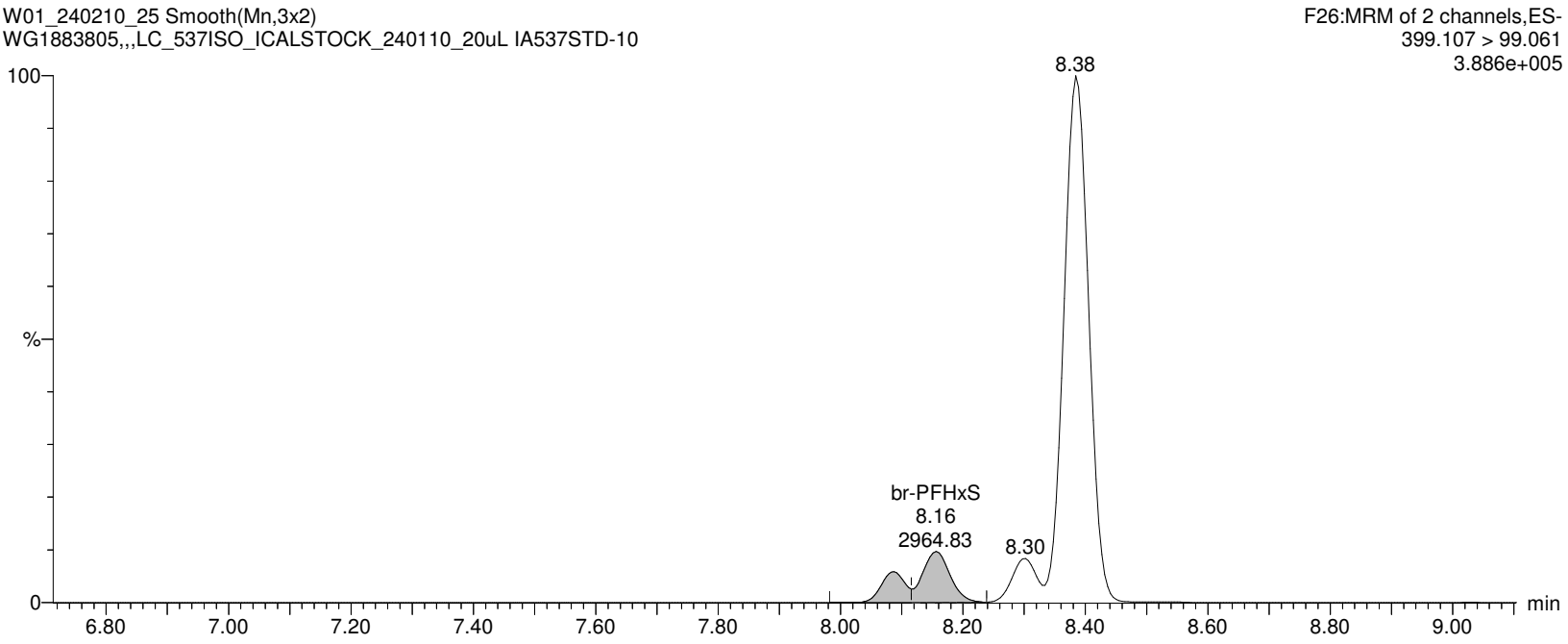

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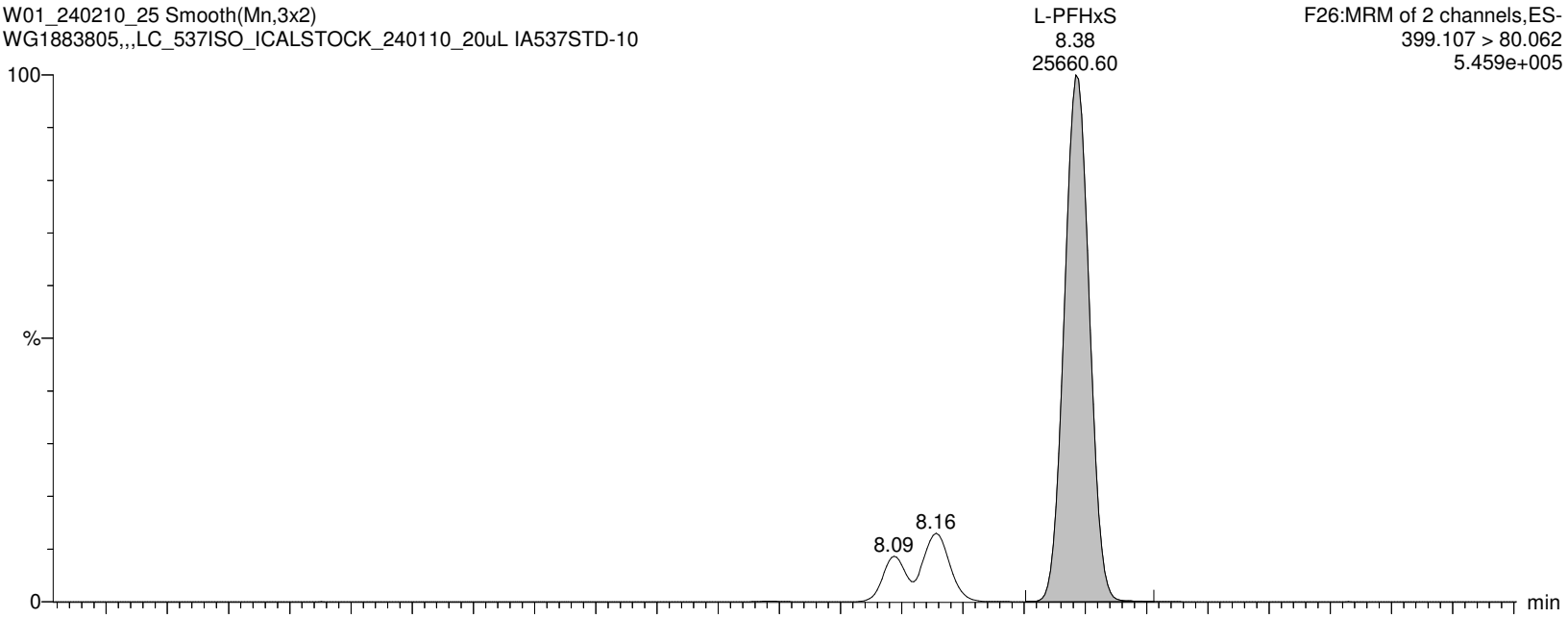
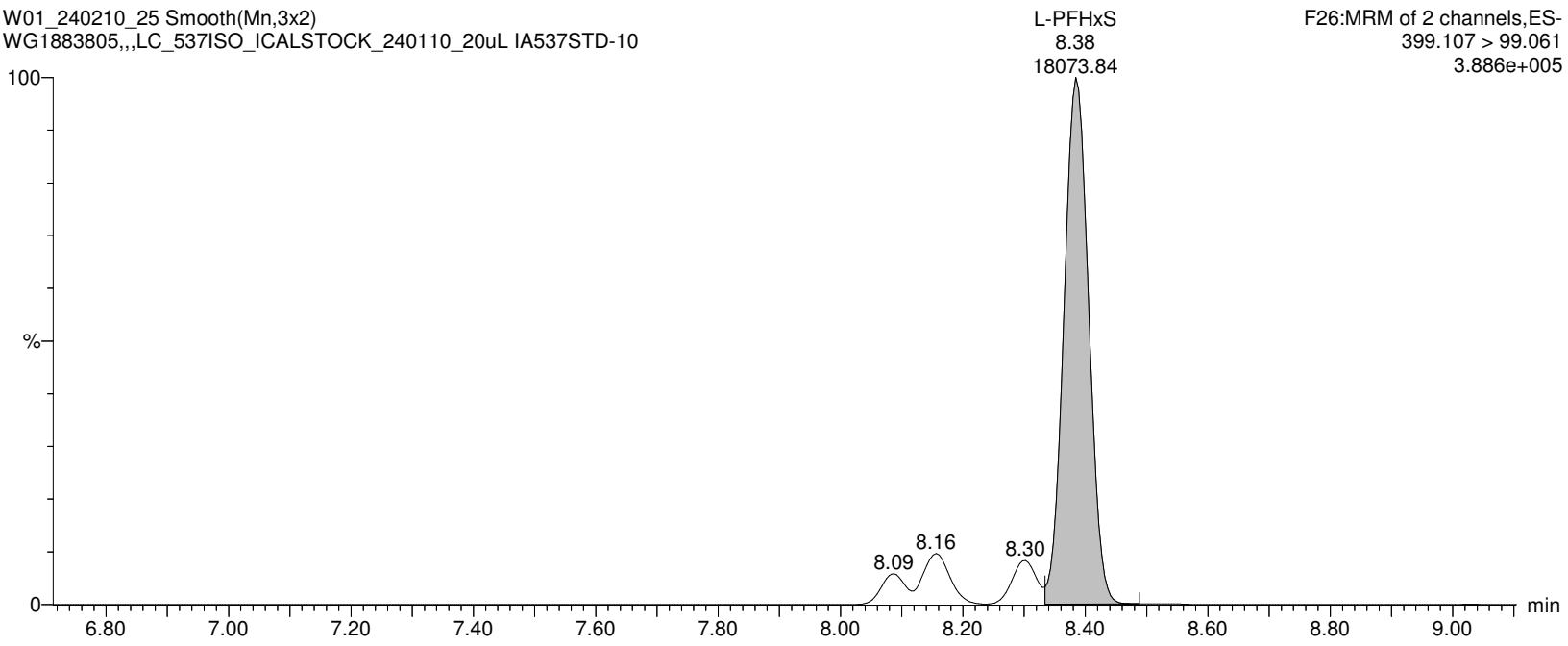
L-PFHxS





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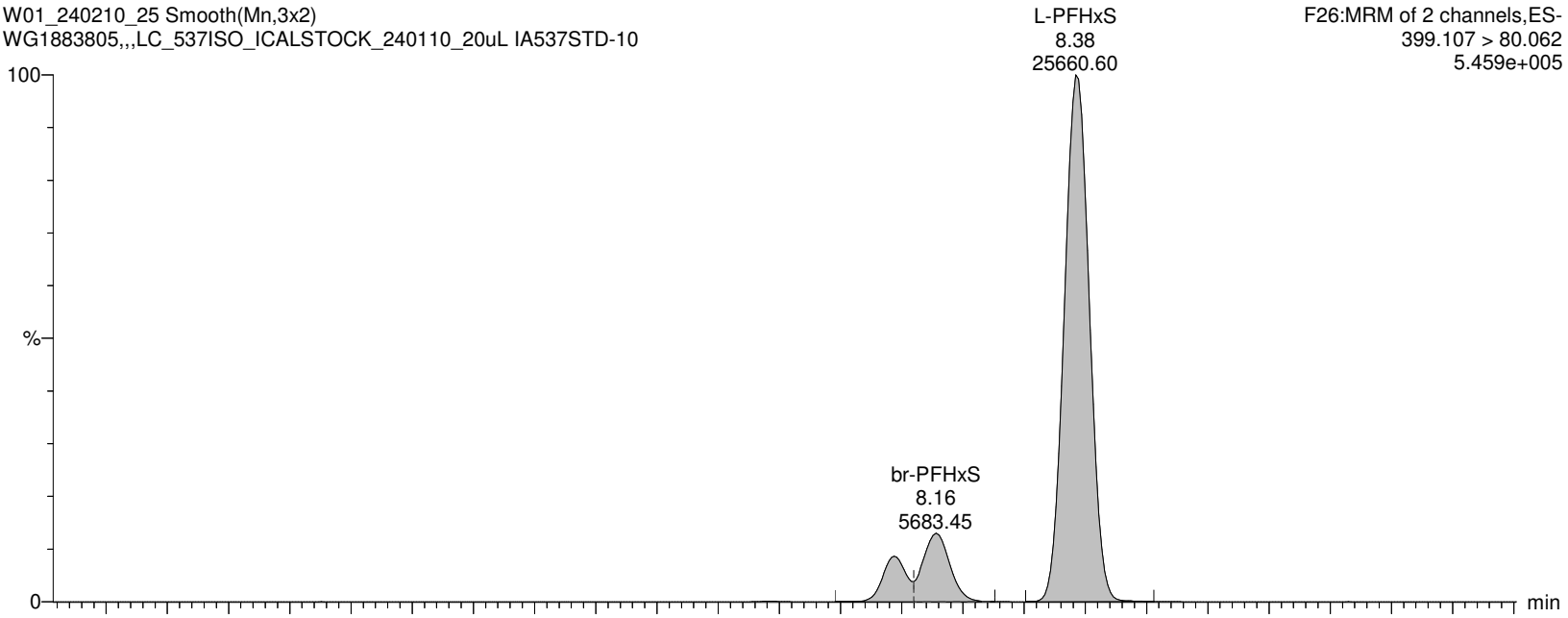

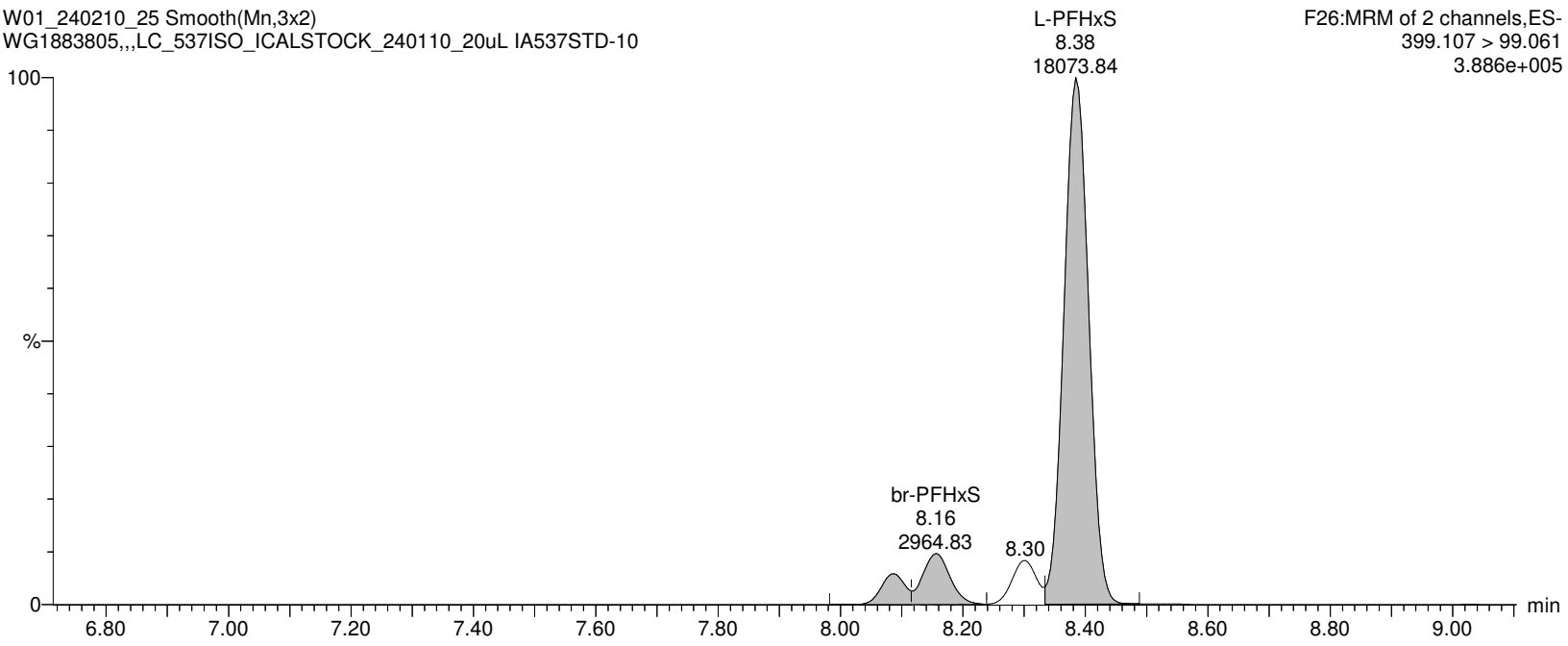

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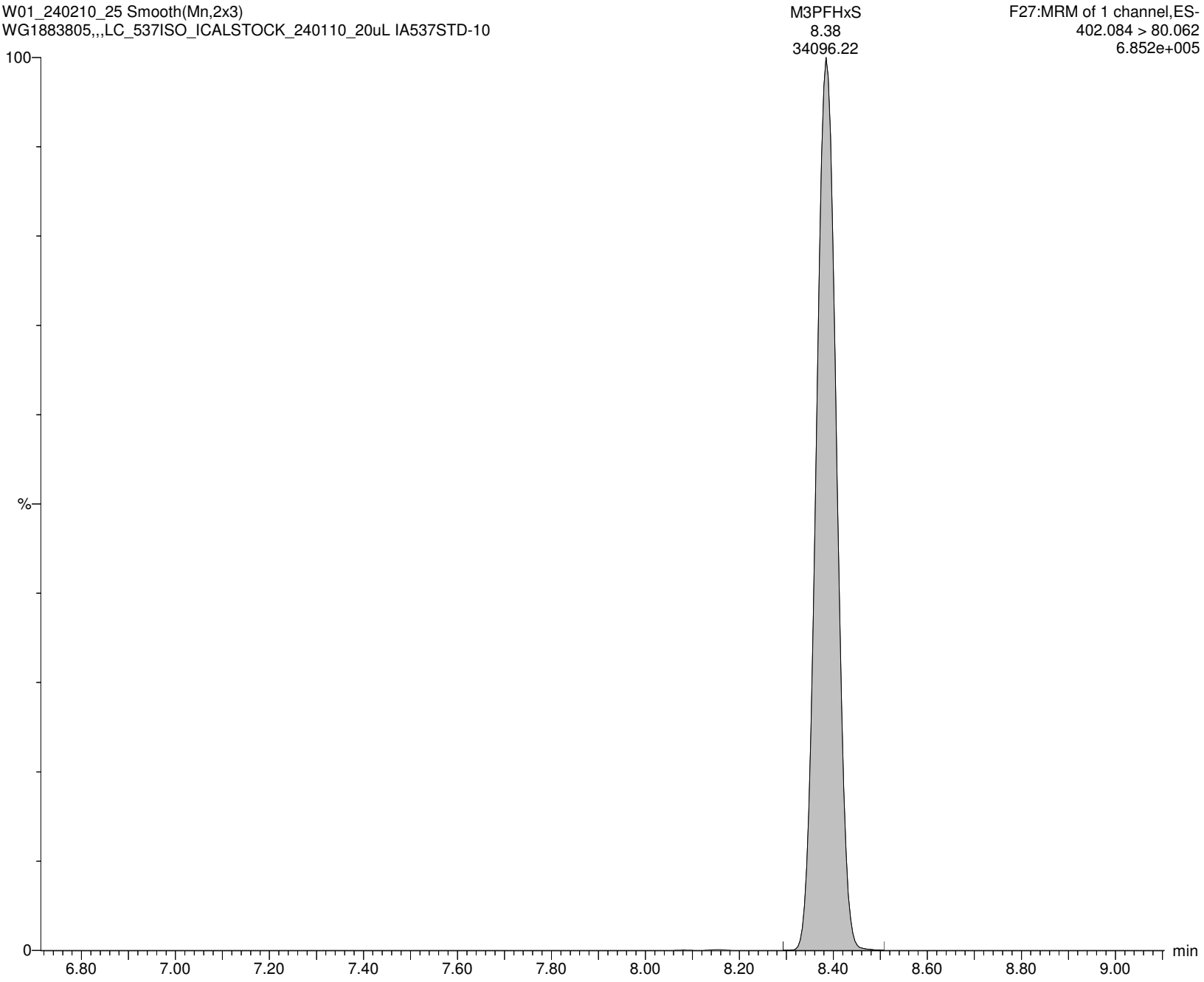

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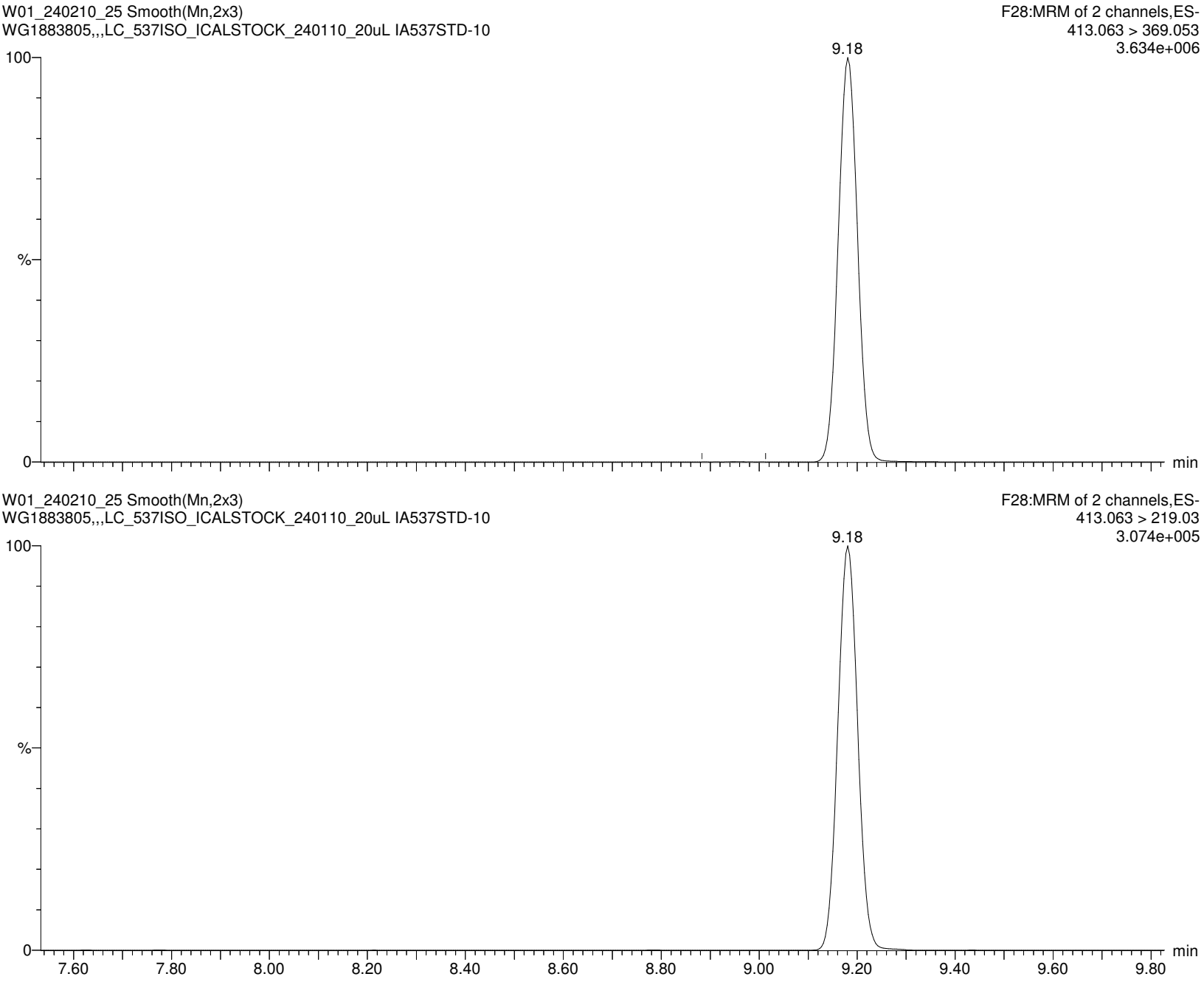

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

Name: W01_240210_25
ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
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User: LCMS01:SG
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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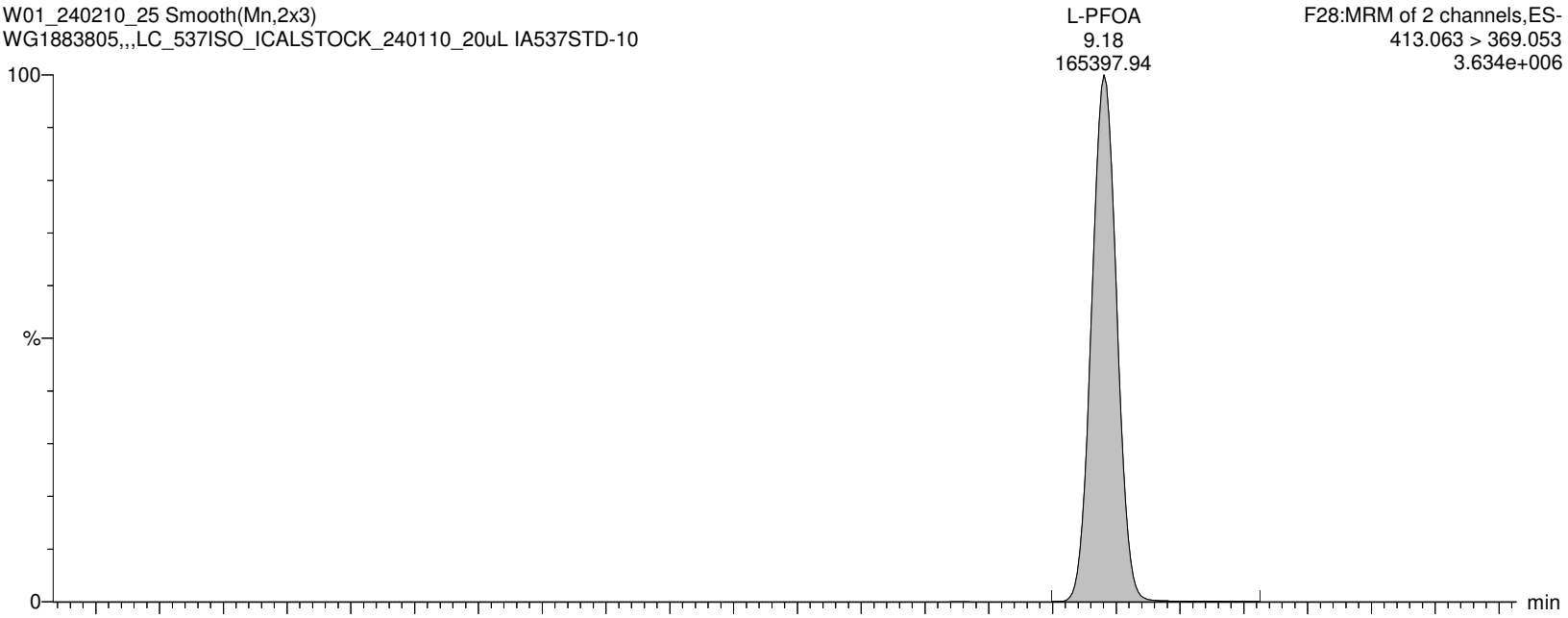

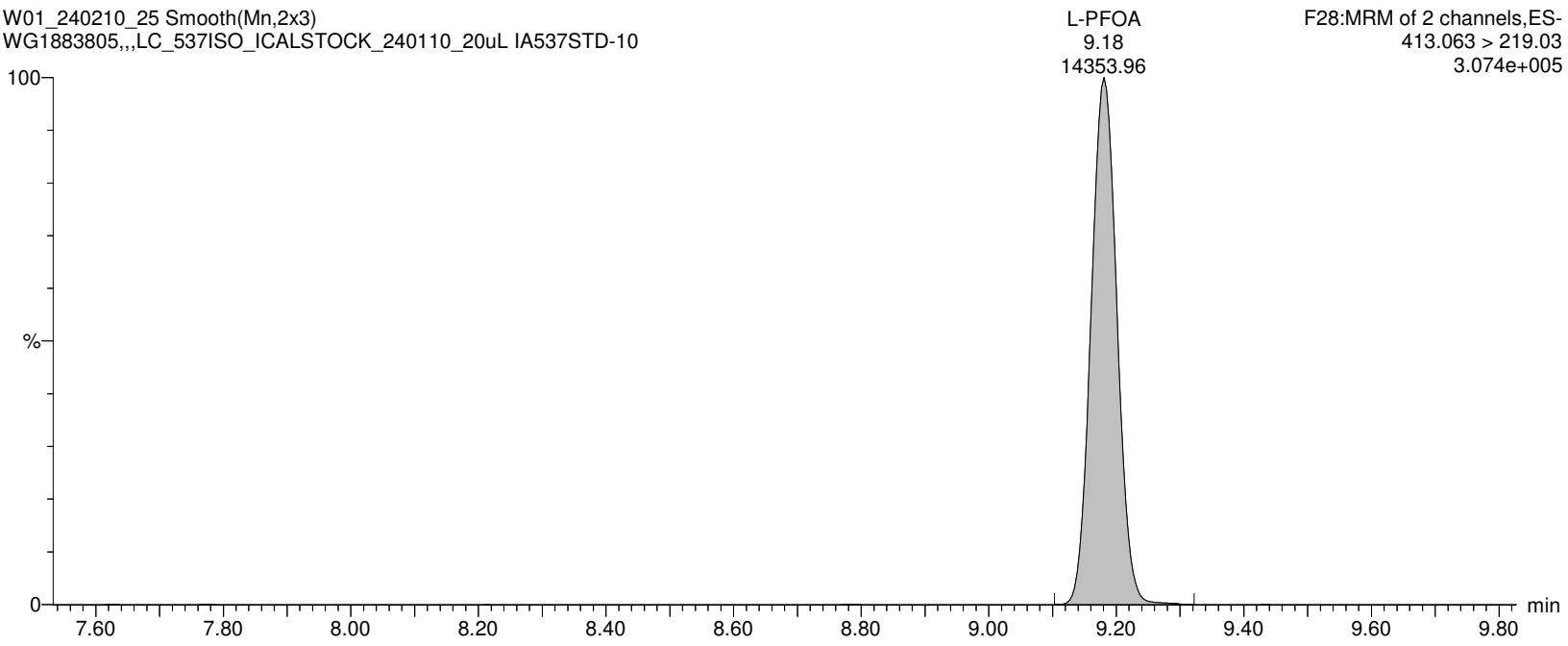

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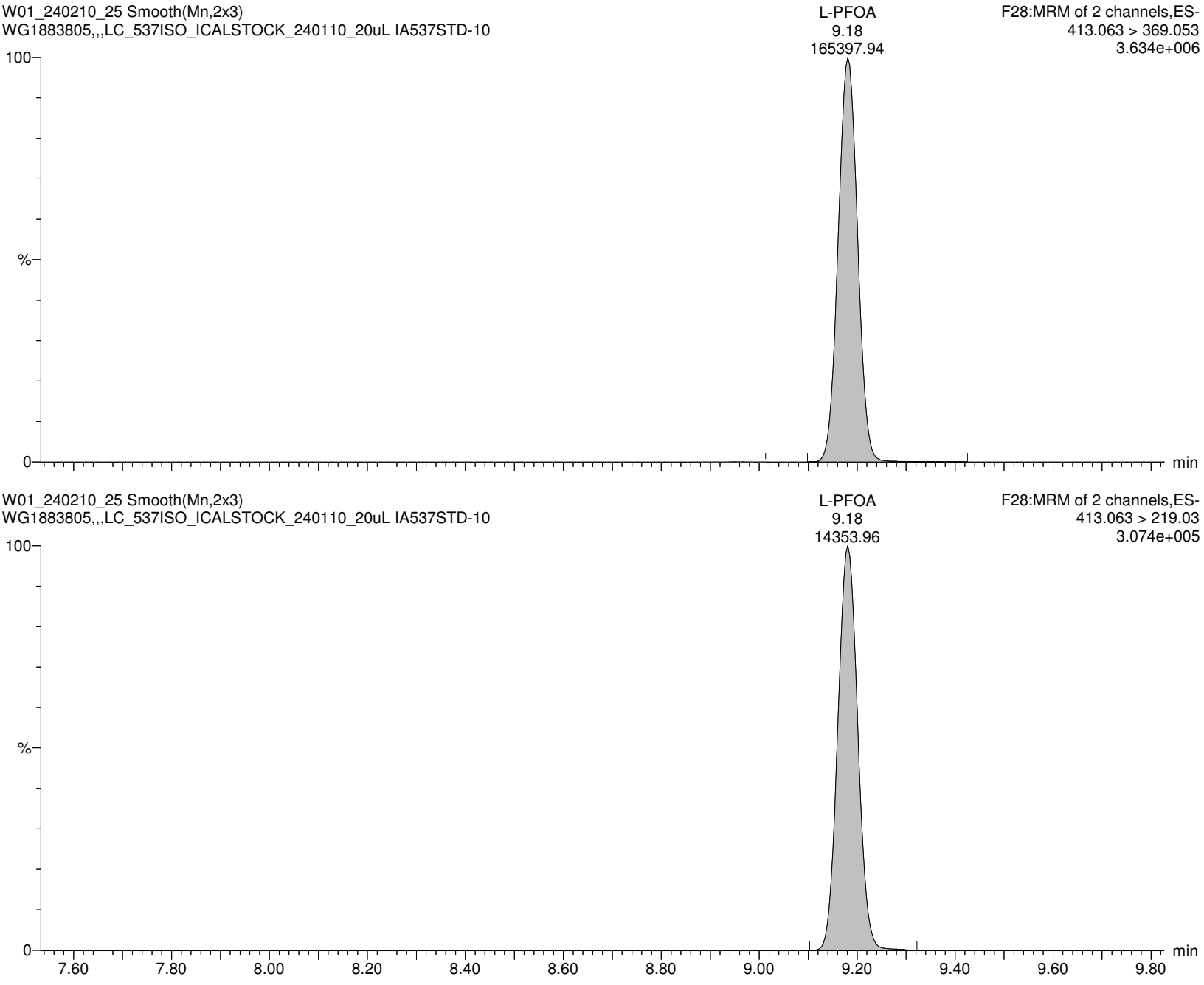

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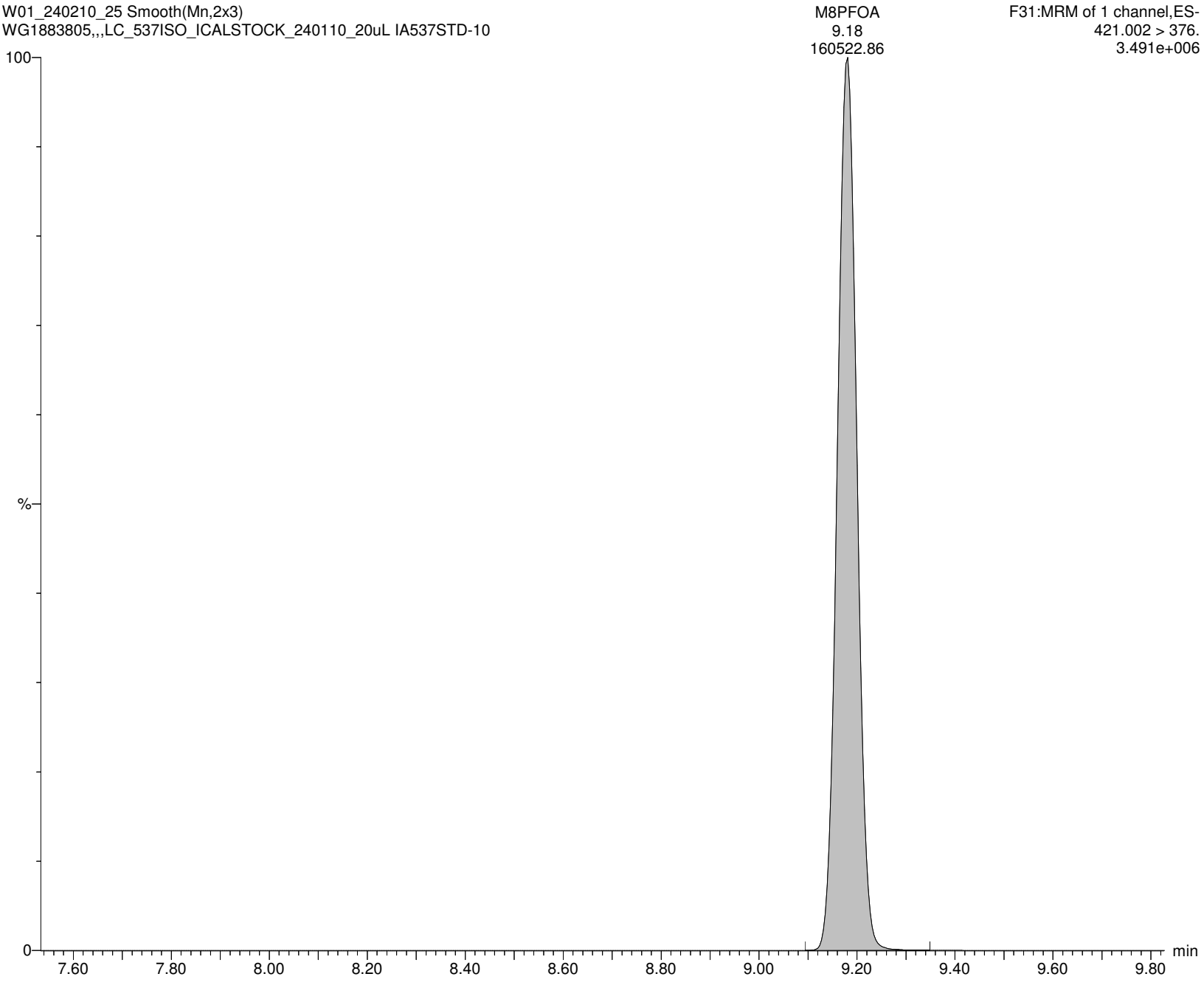

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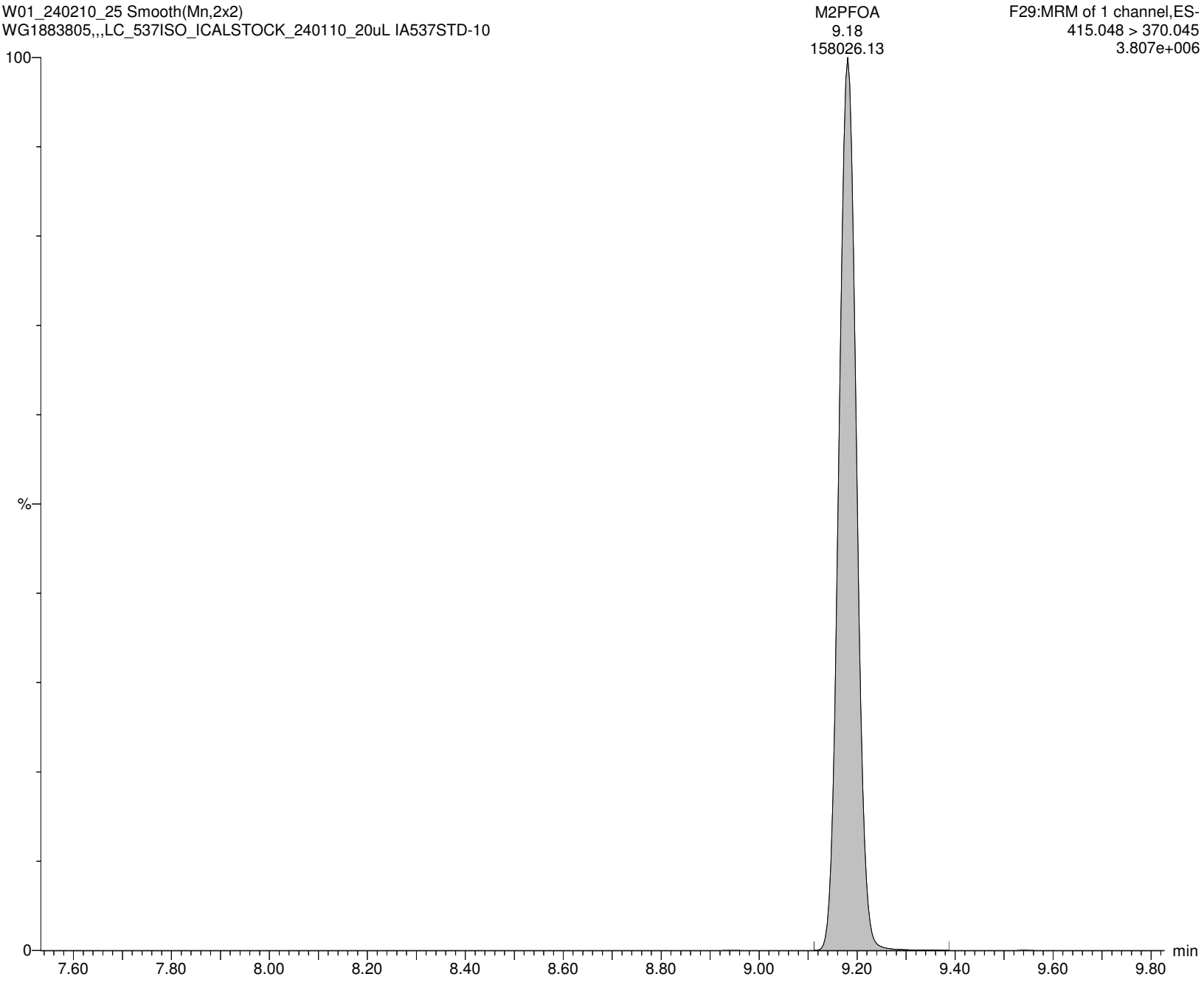

all concentration units in (ng/mL)

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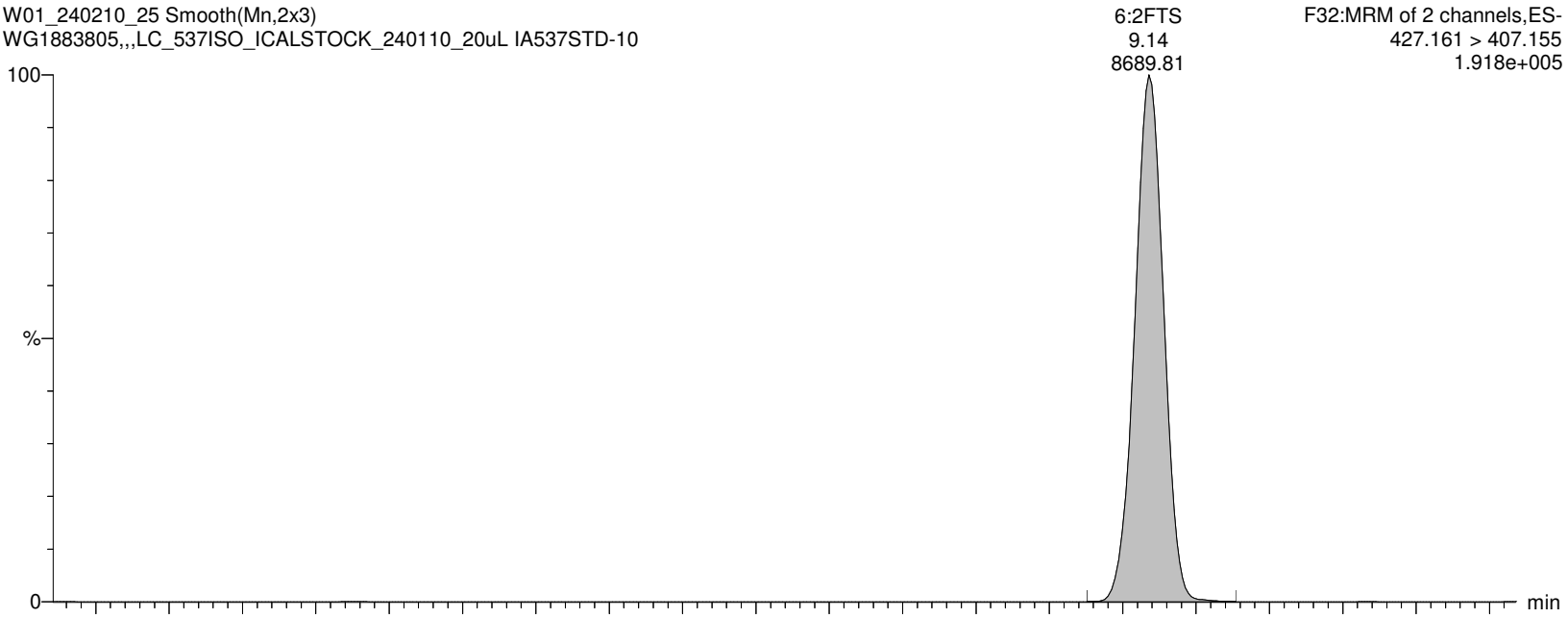
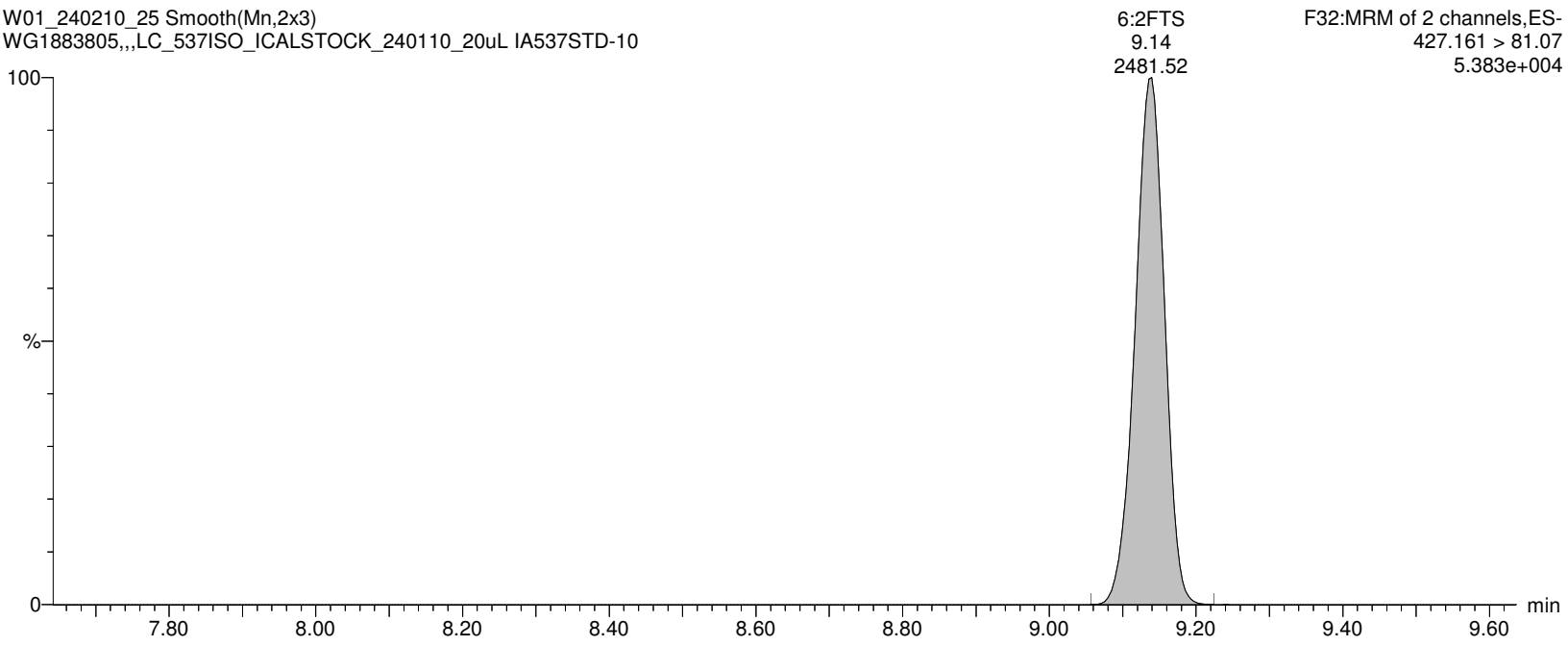
6:2FTS





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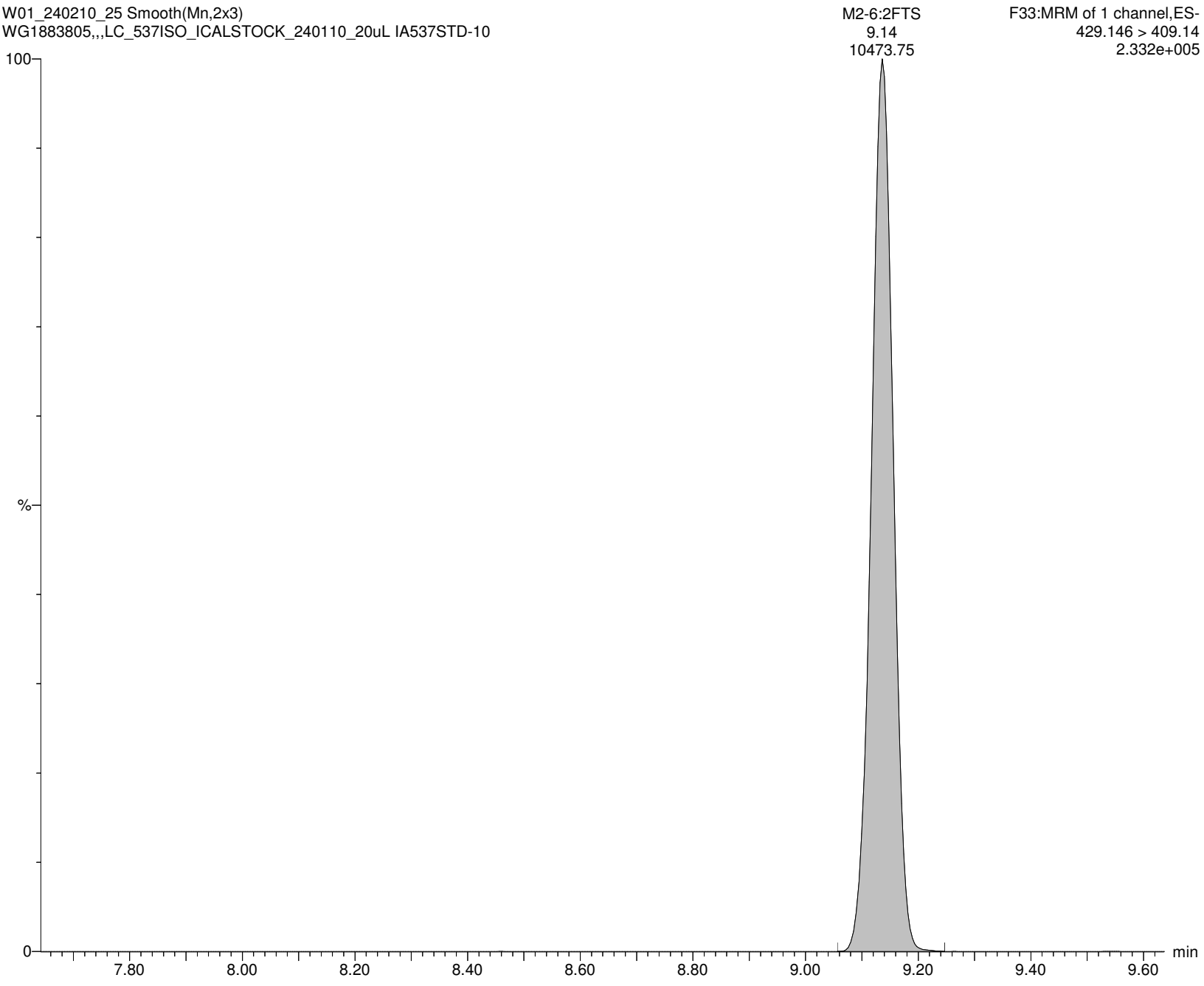

all concentration units in (ng/mL)

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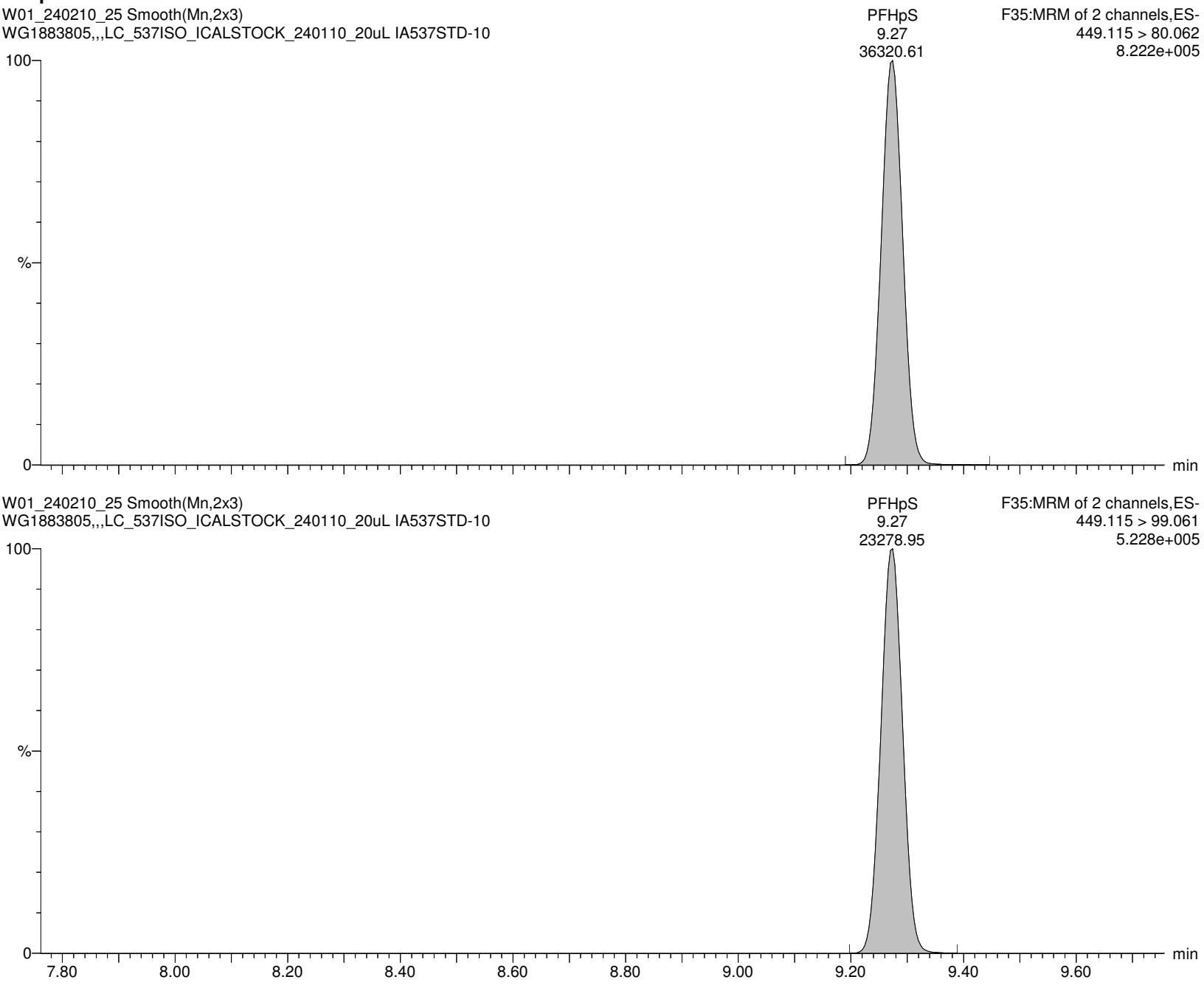

all concentration units in (ng/mL)

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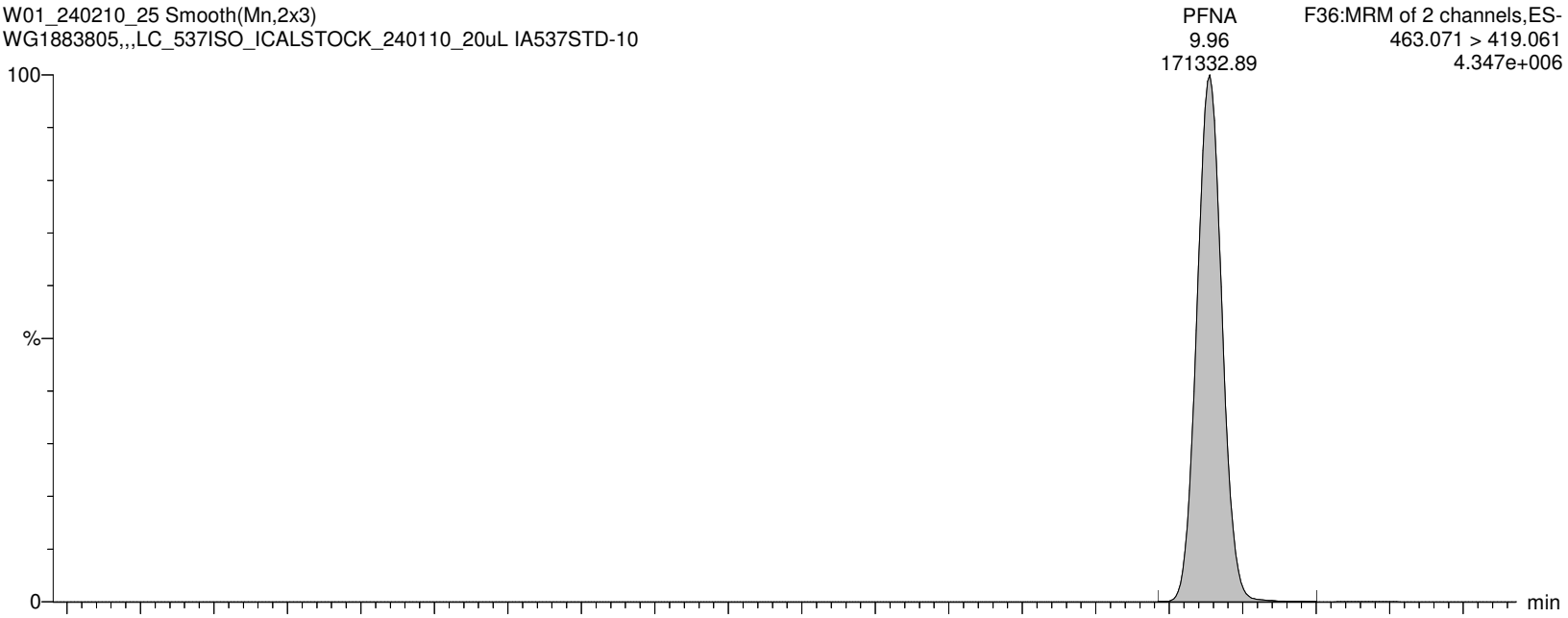

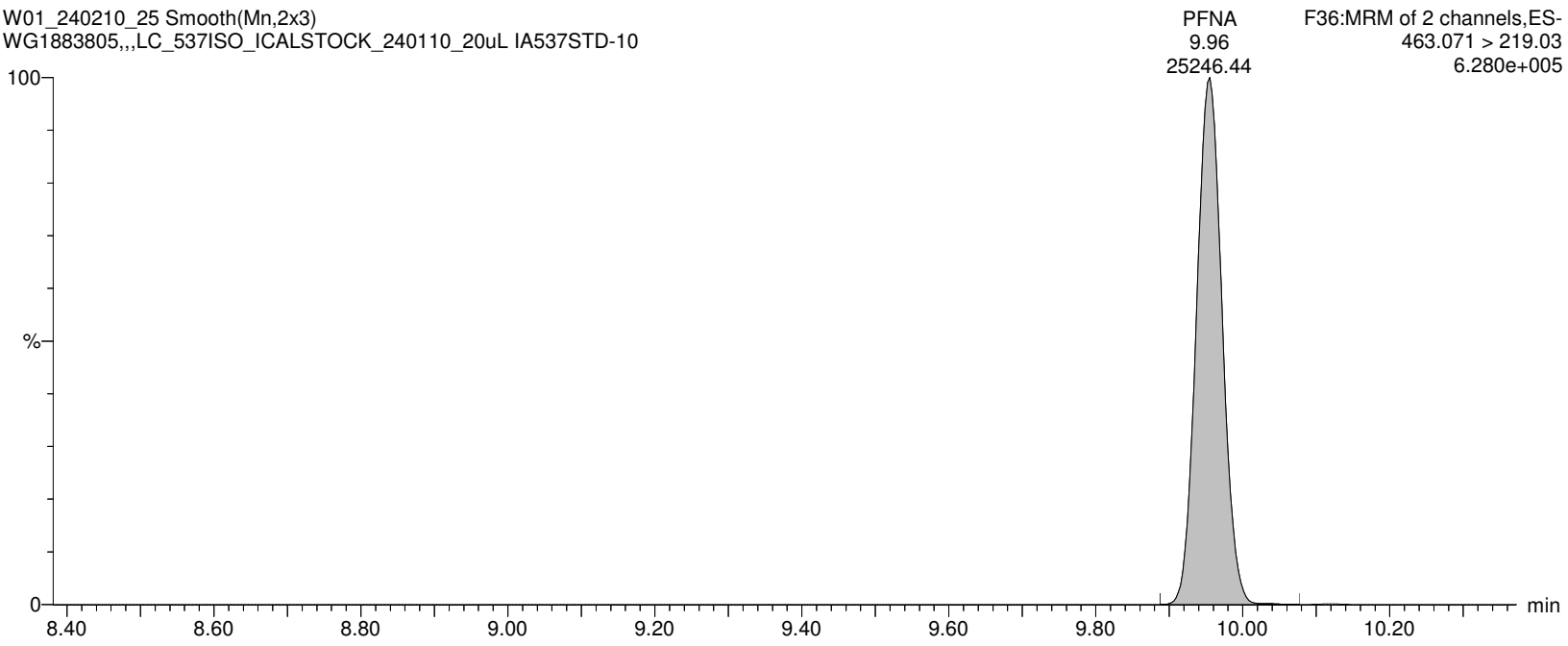

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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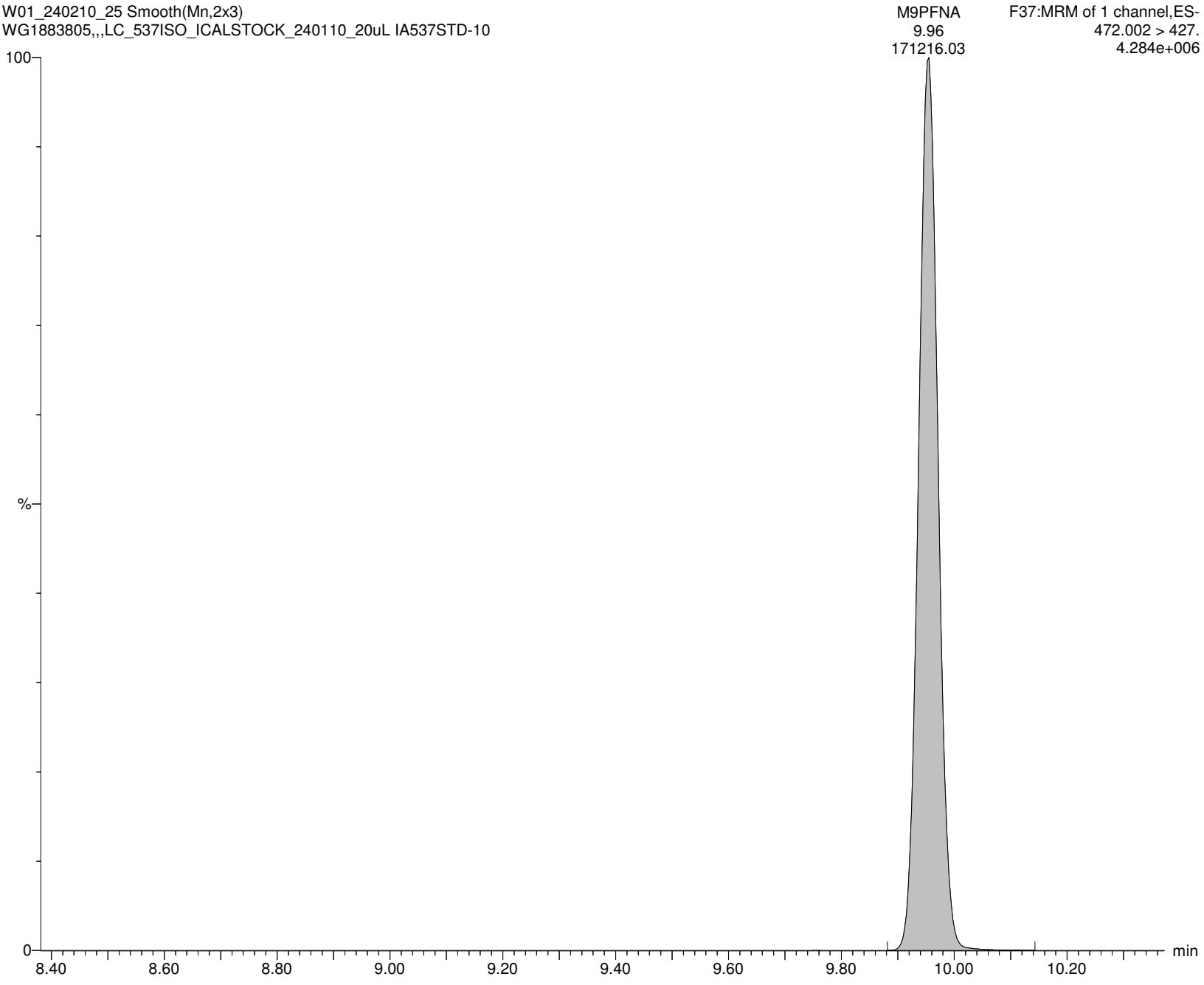

all concentration units in (ng/mL)

Alpha Analytical Inc.
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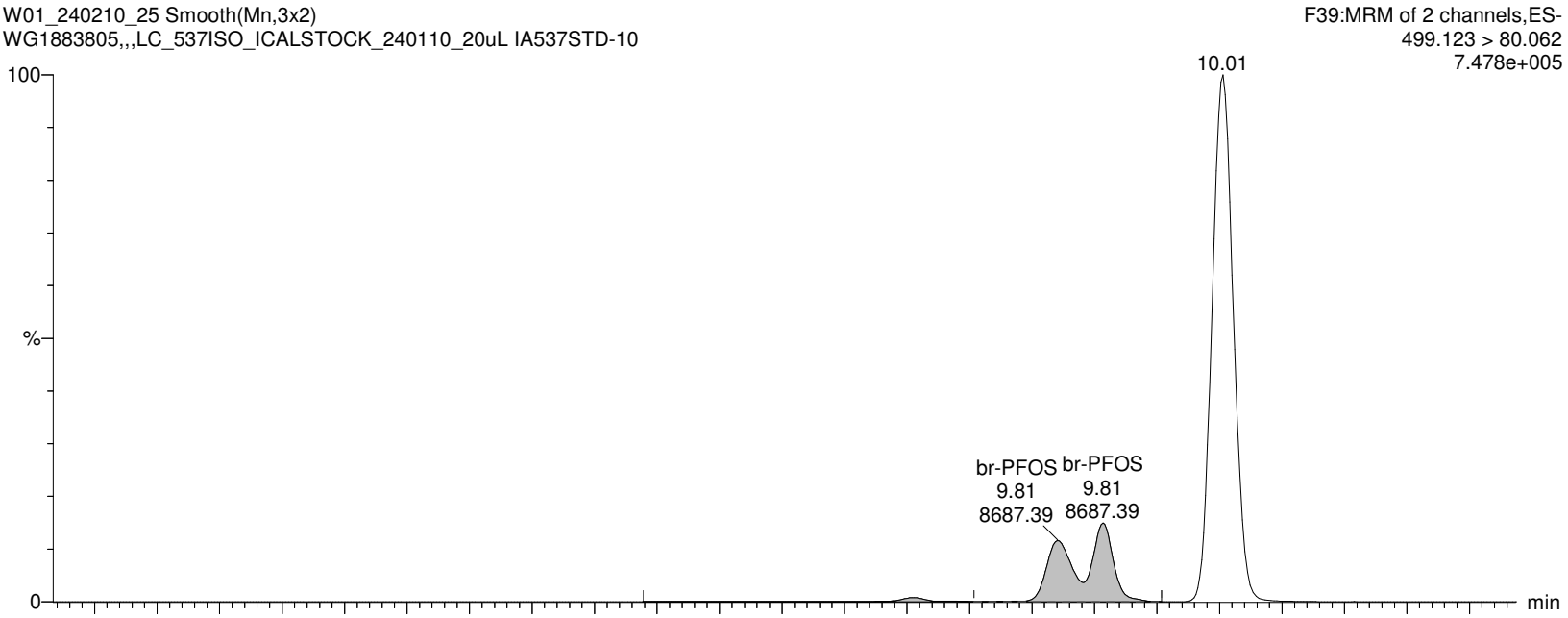
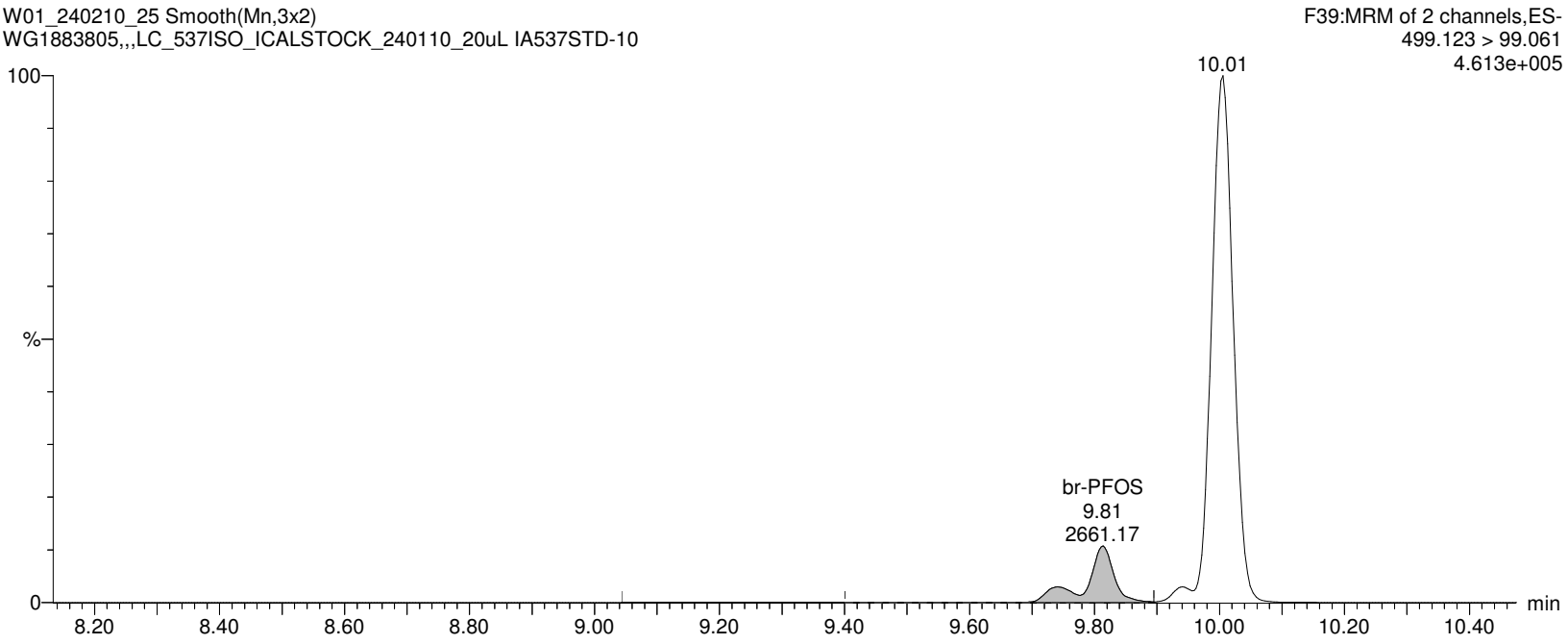
br-PFOS





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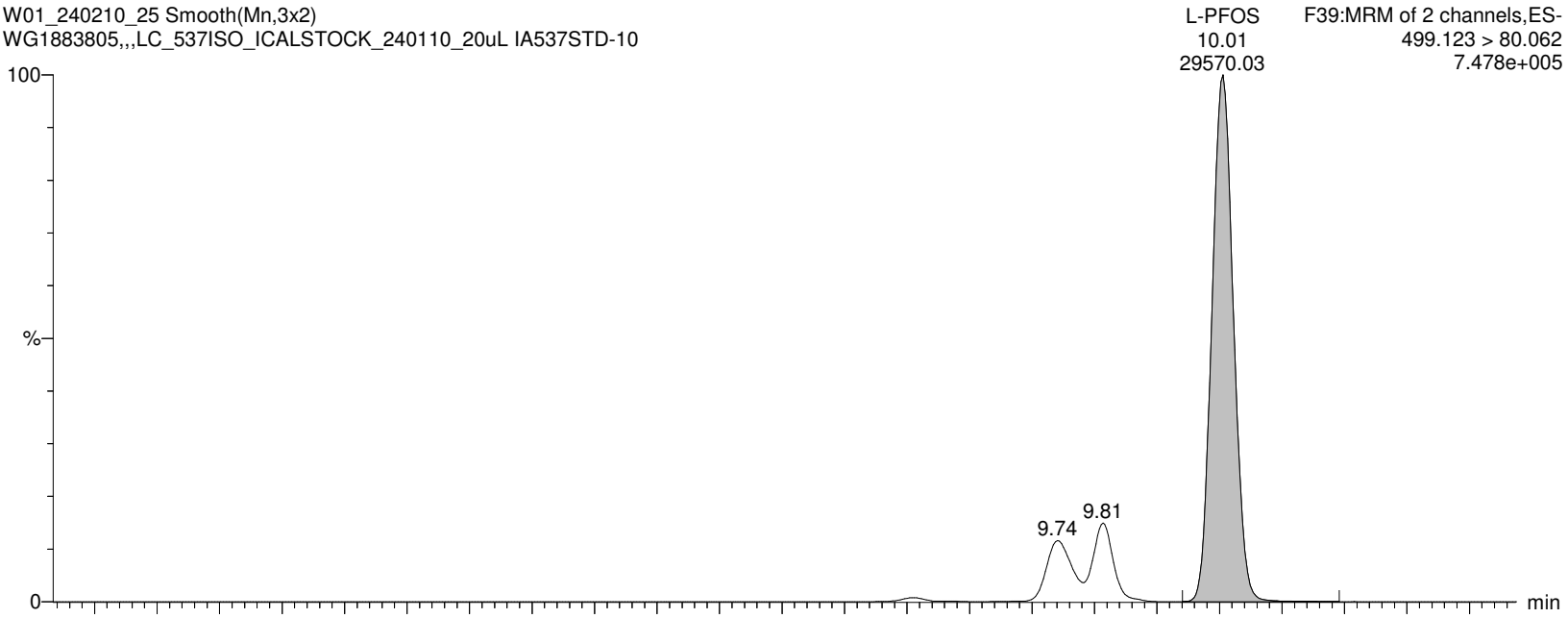

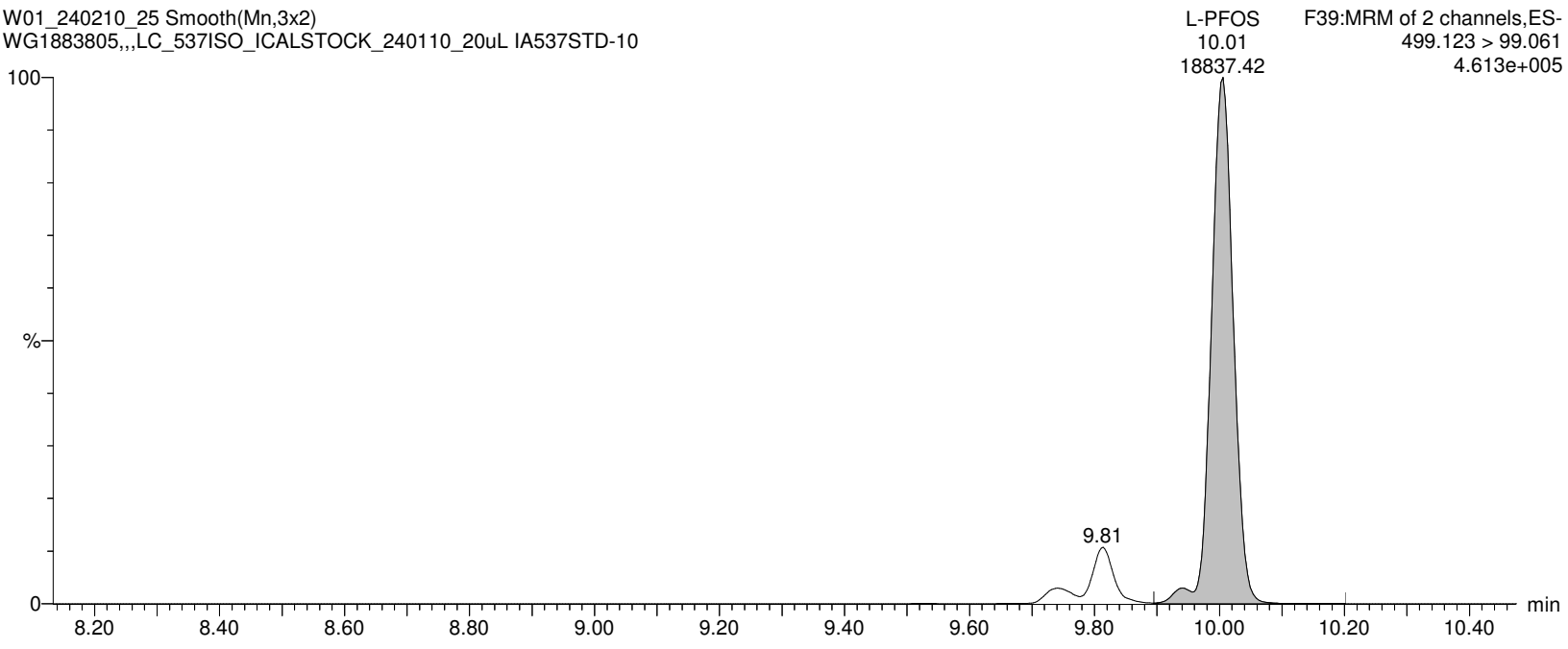

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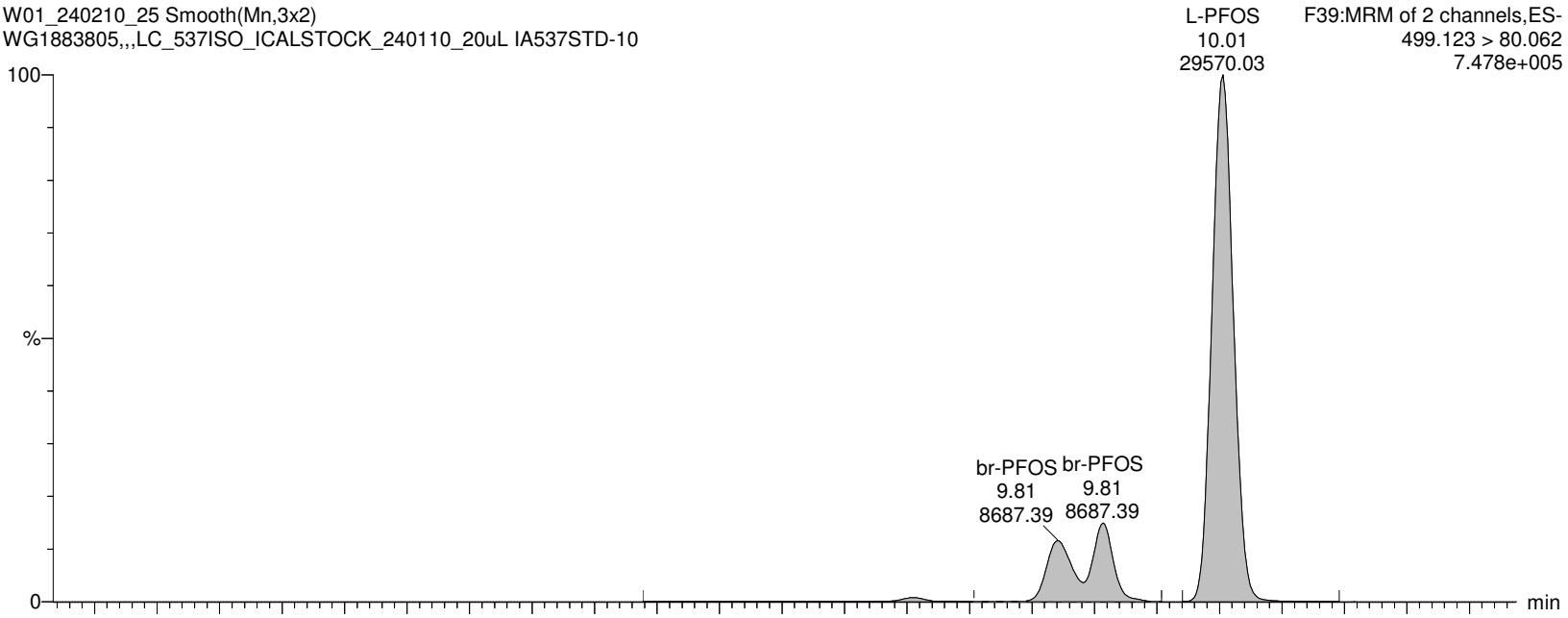

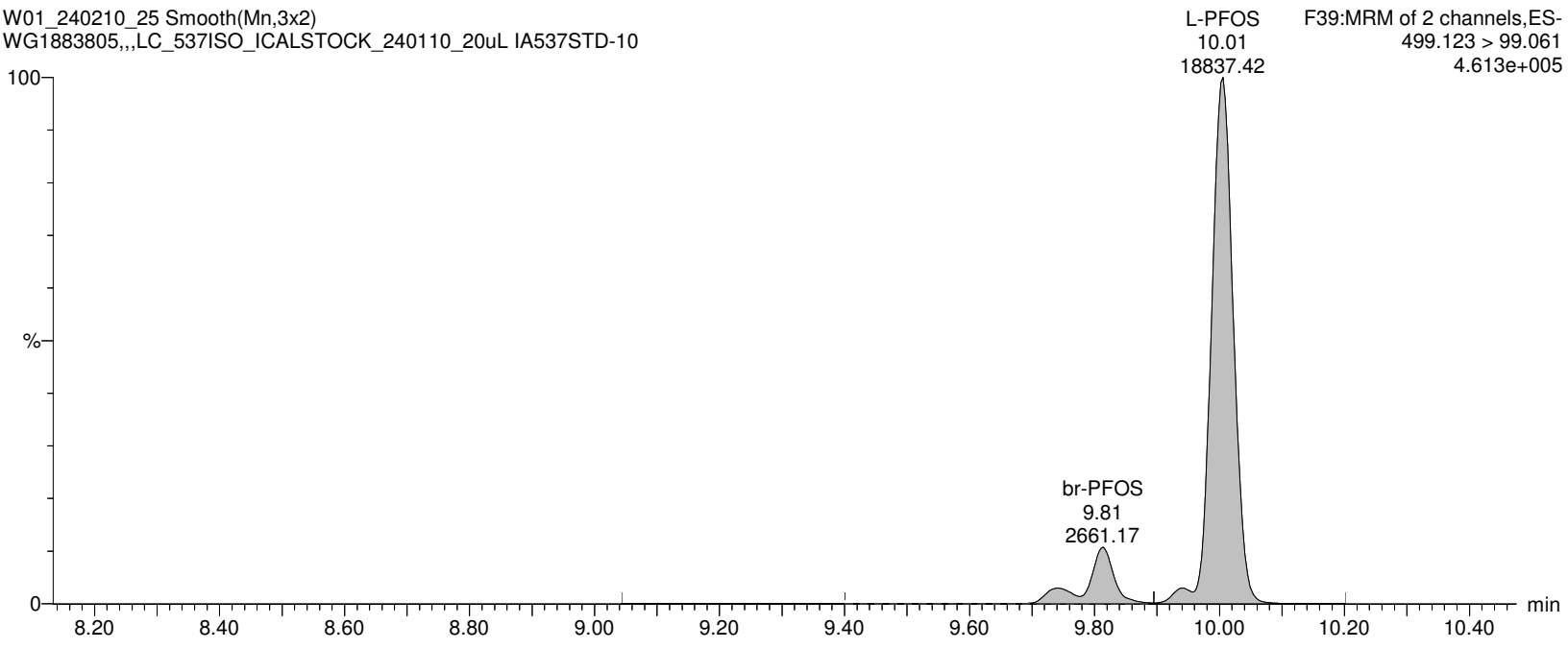

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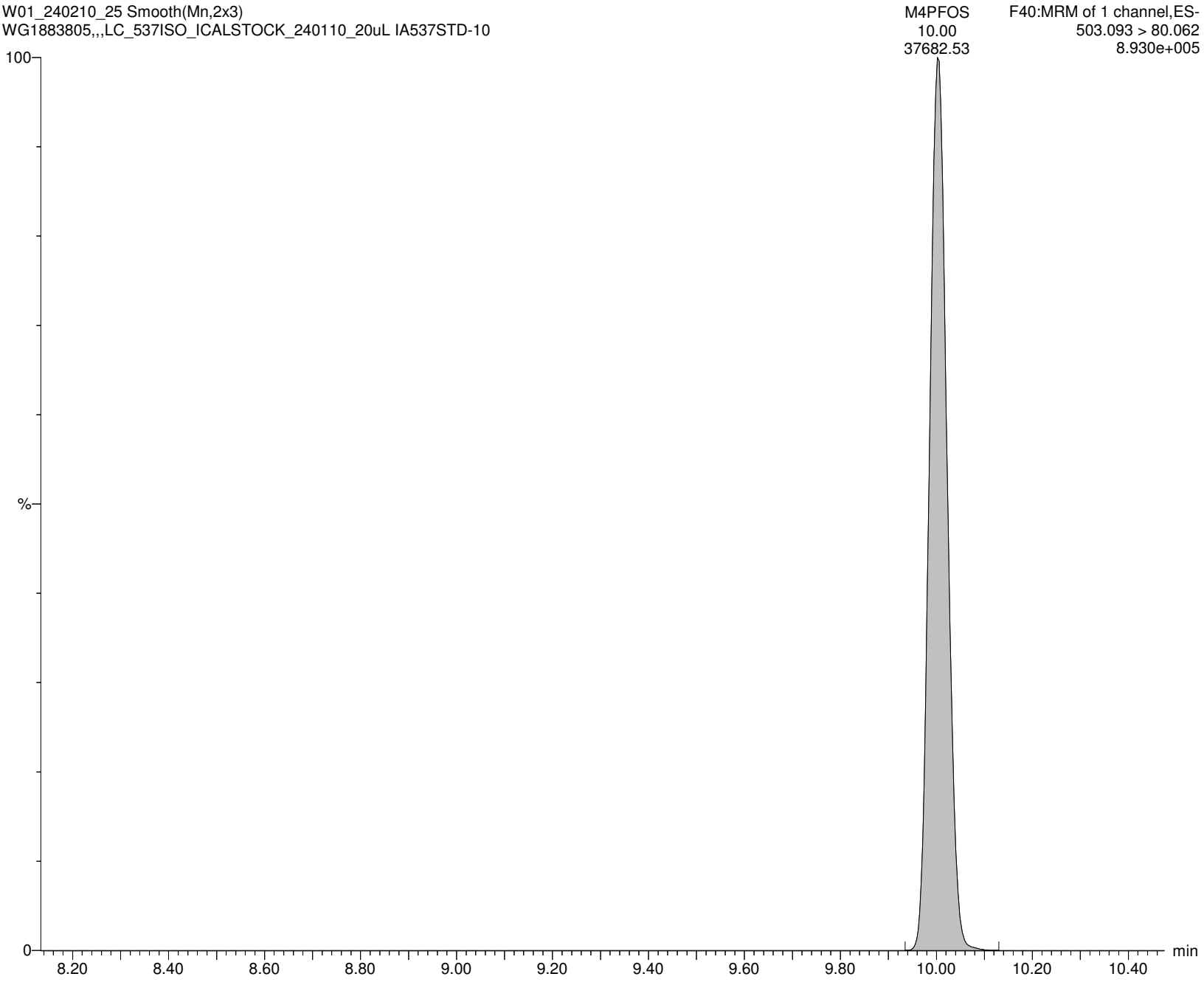

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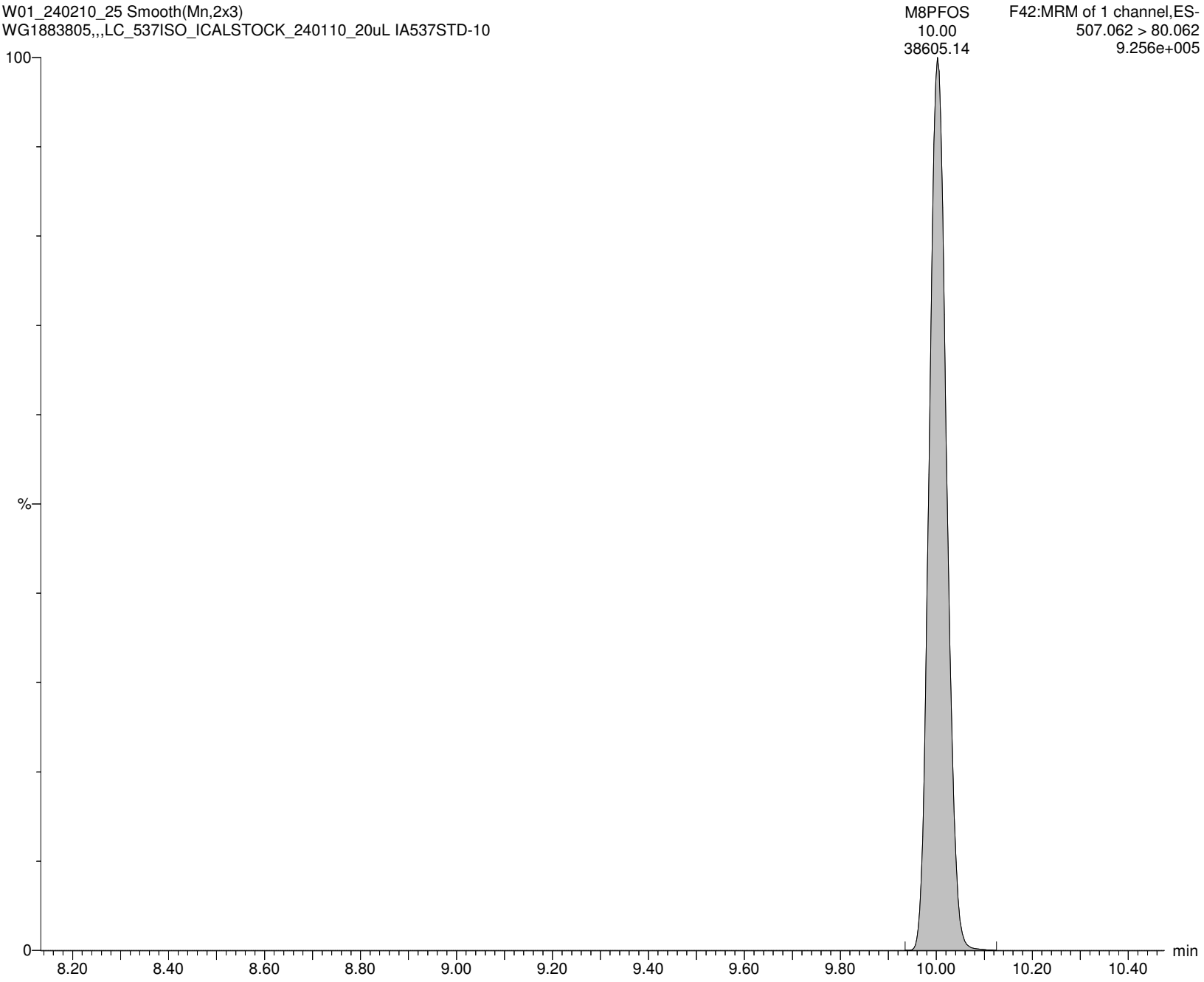

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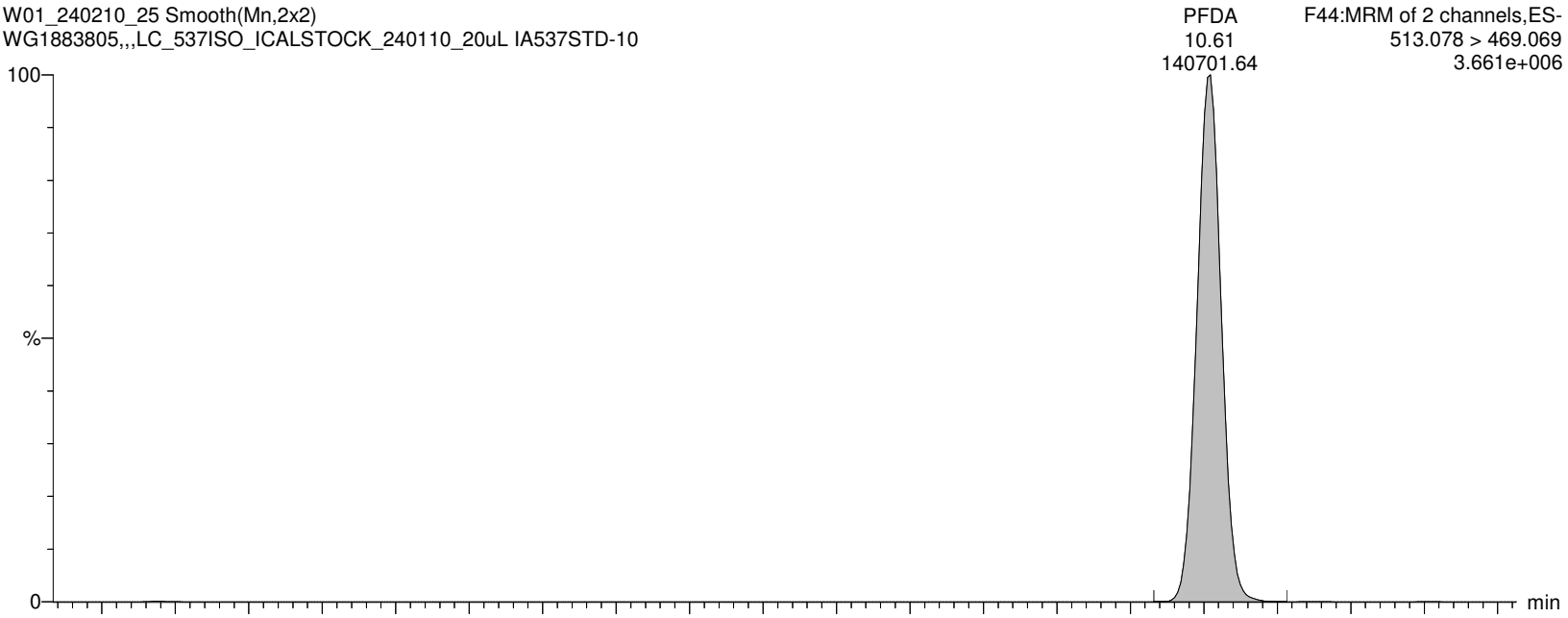

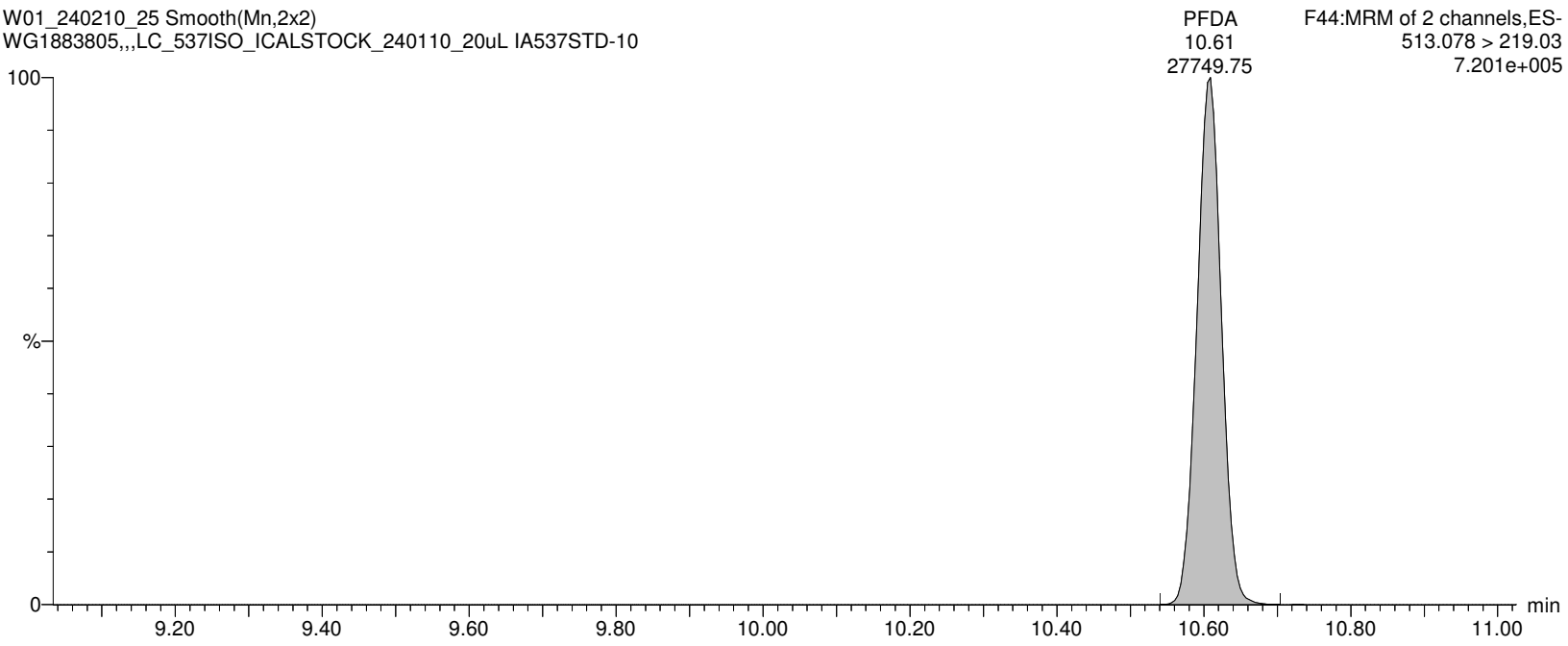

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

Name: W01_240210_25
ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
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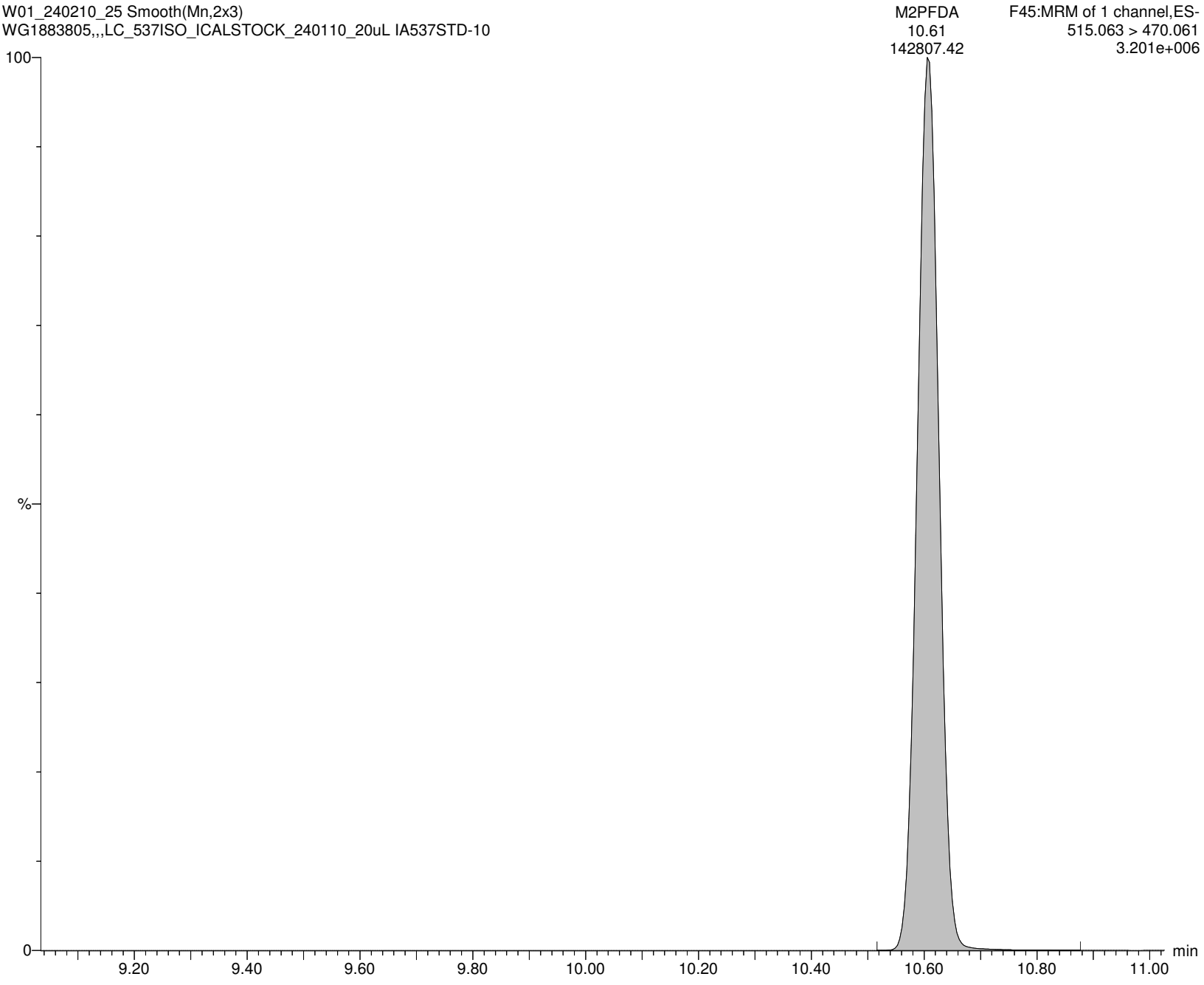

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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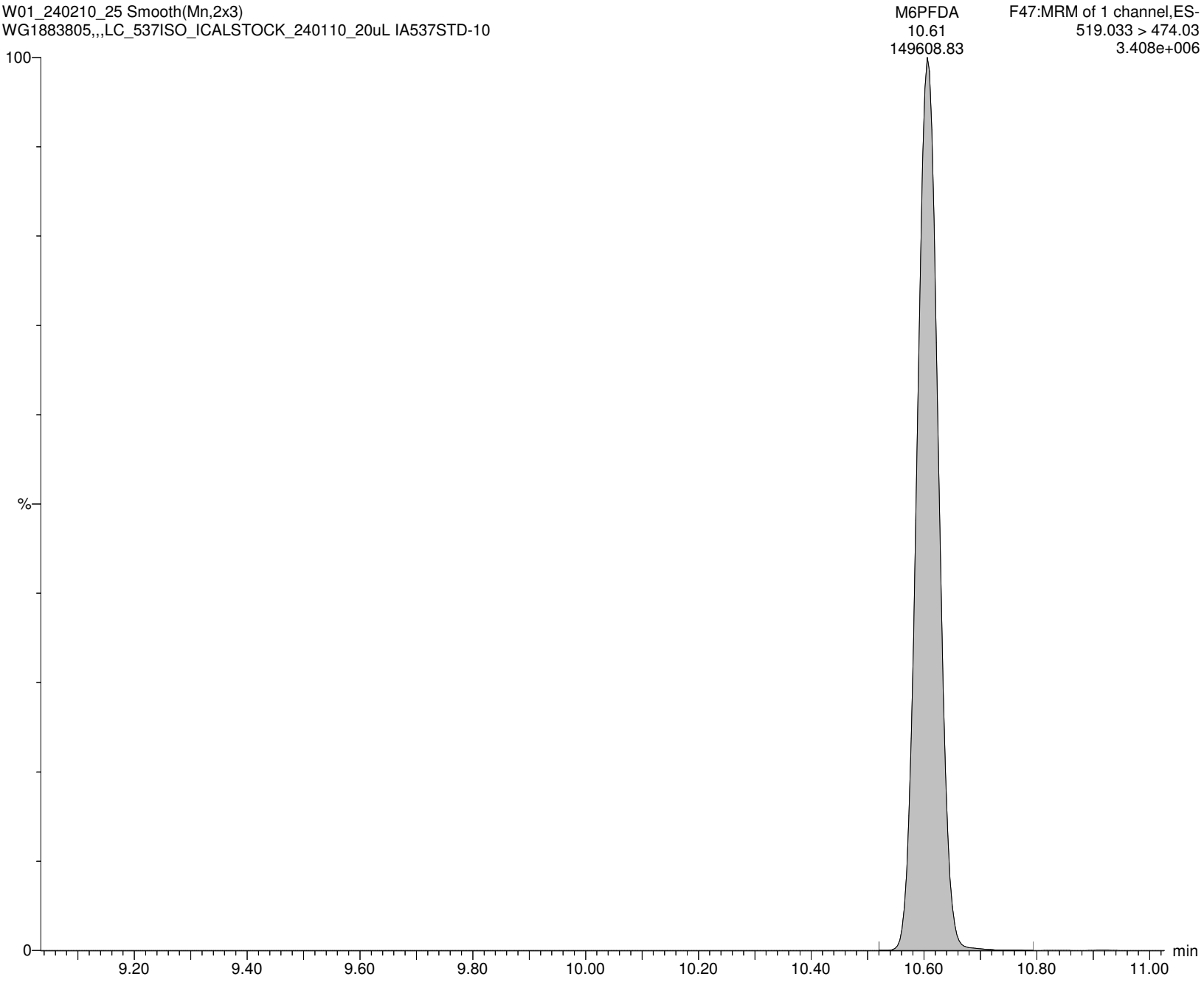

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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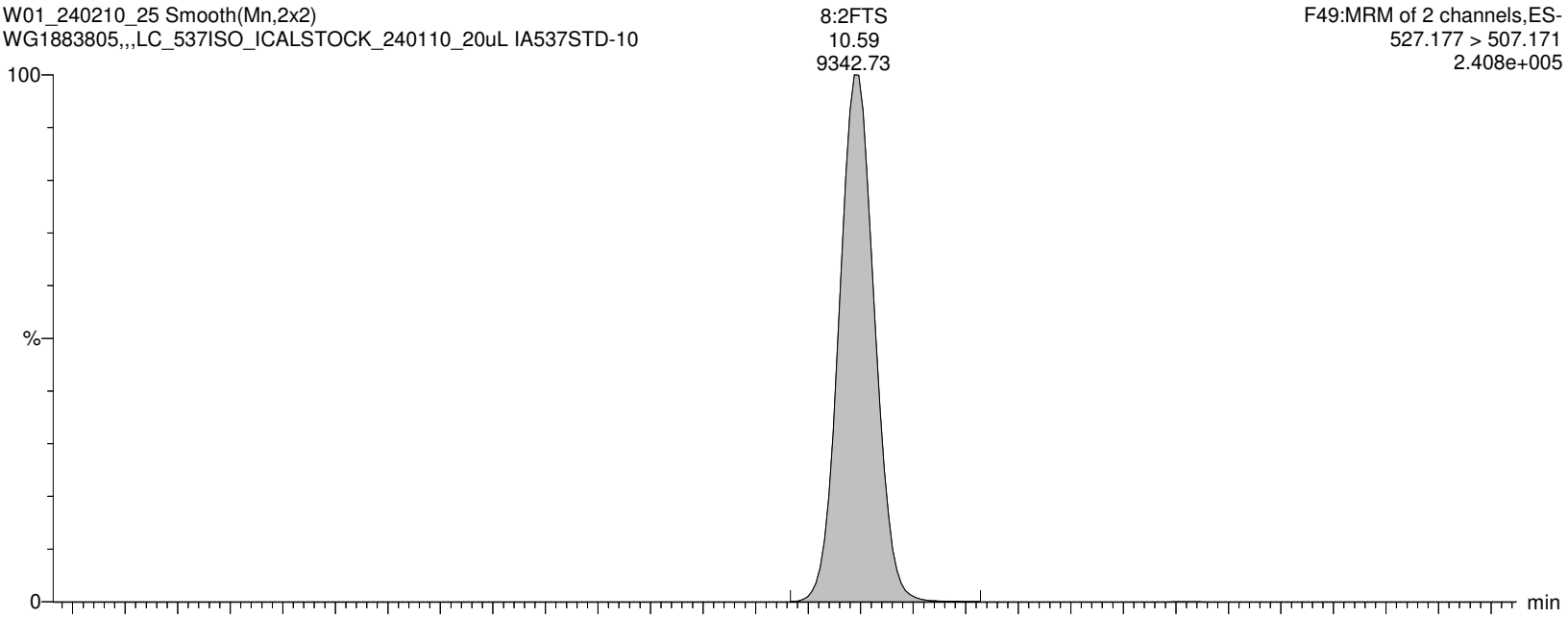
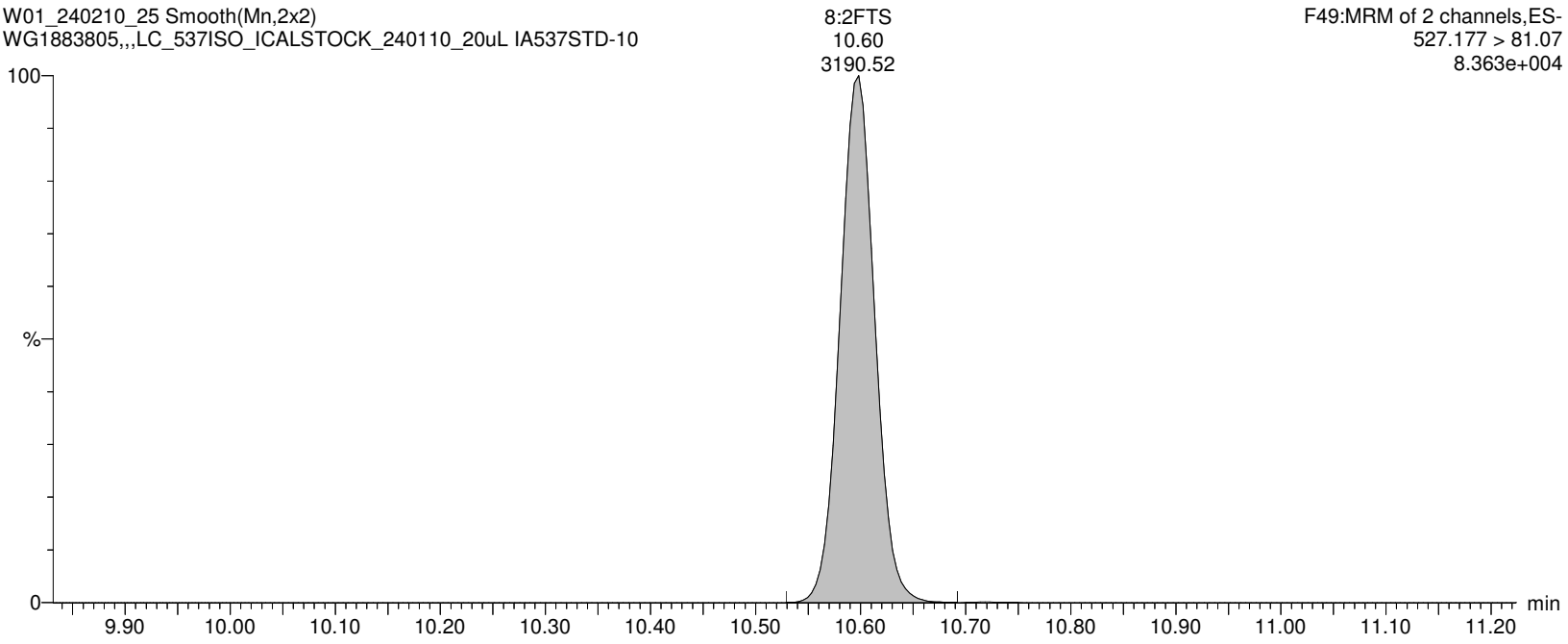
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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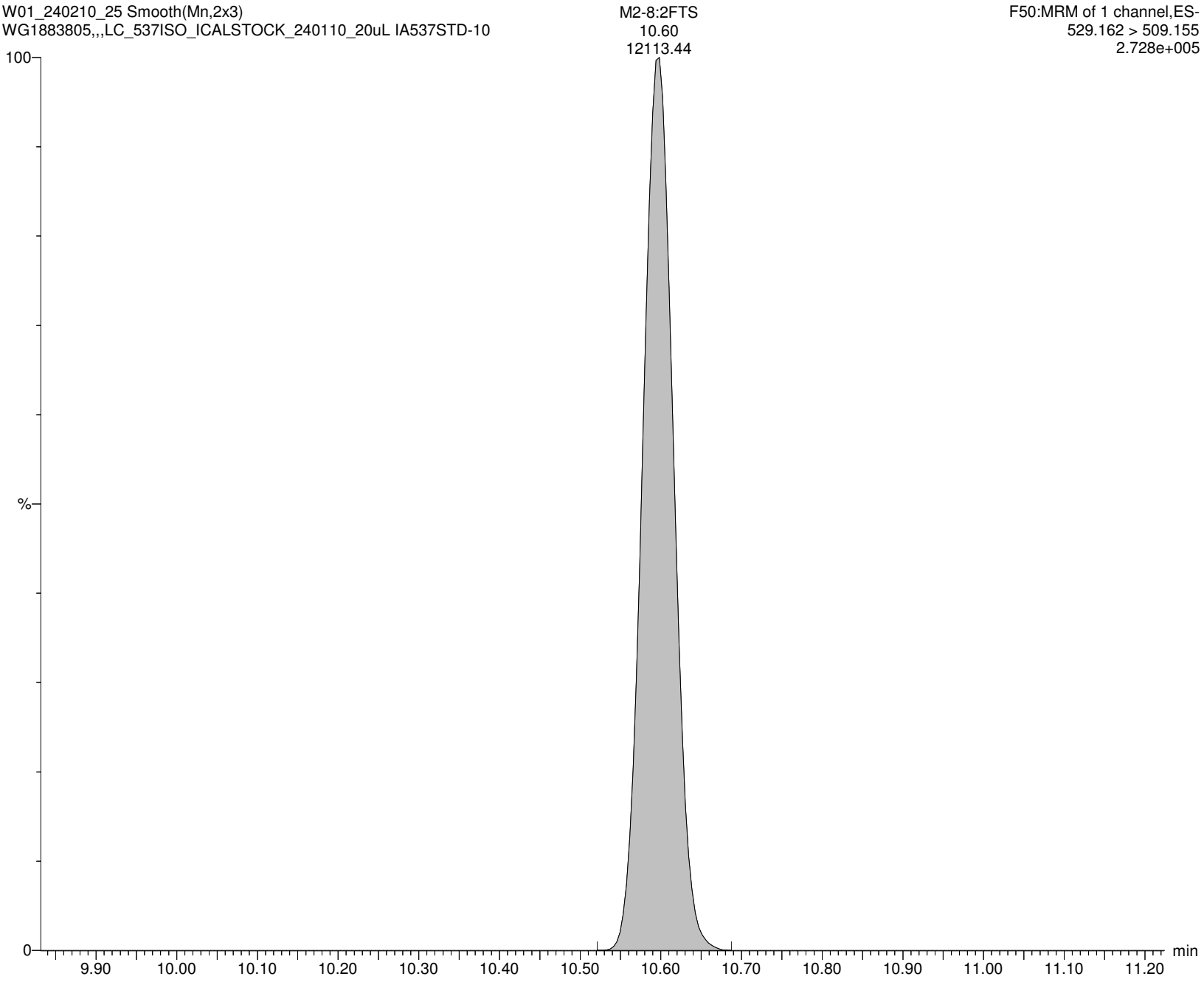
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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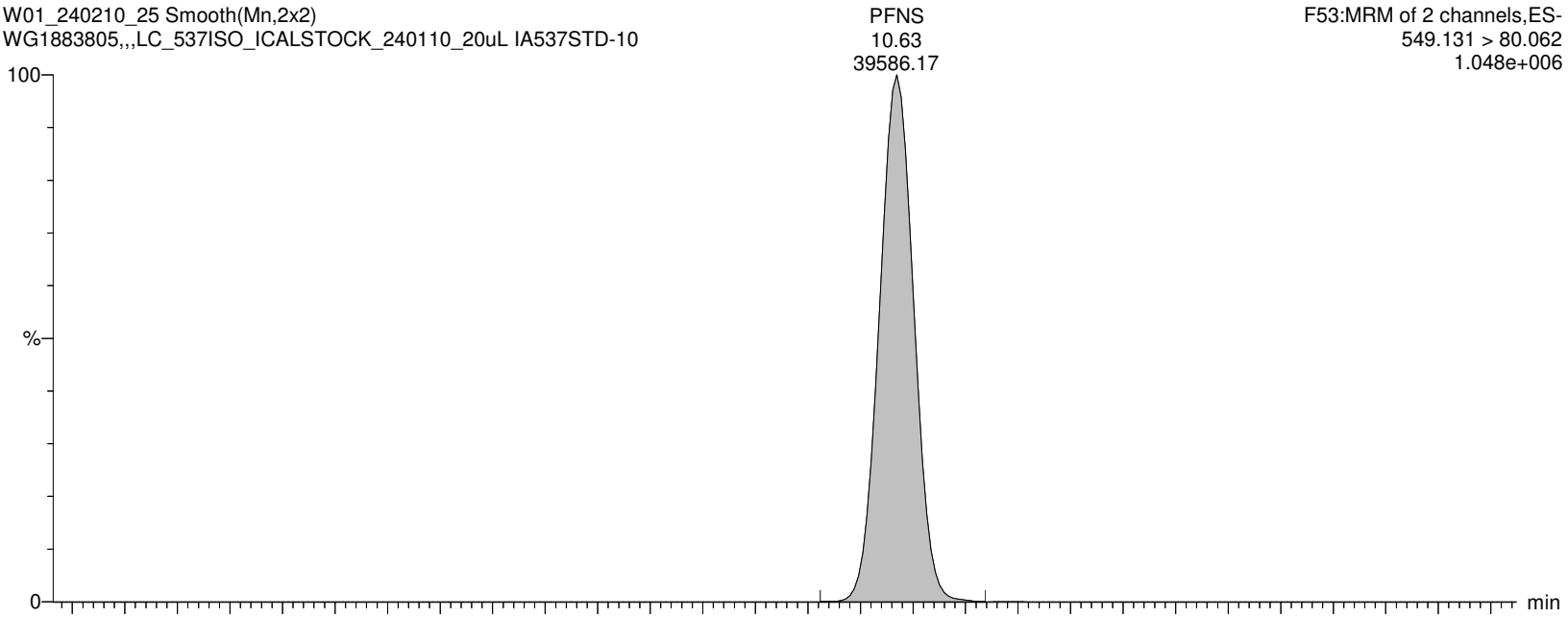
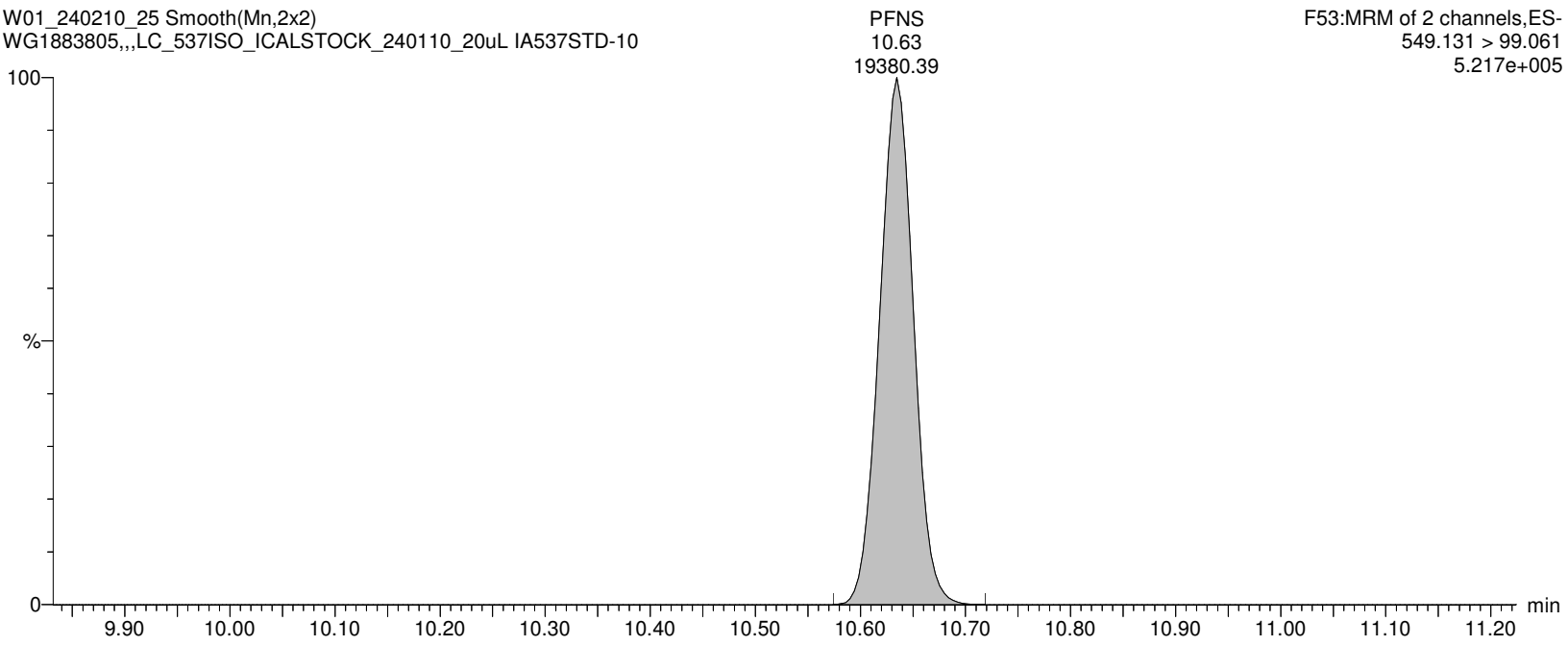
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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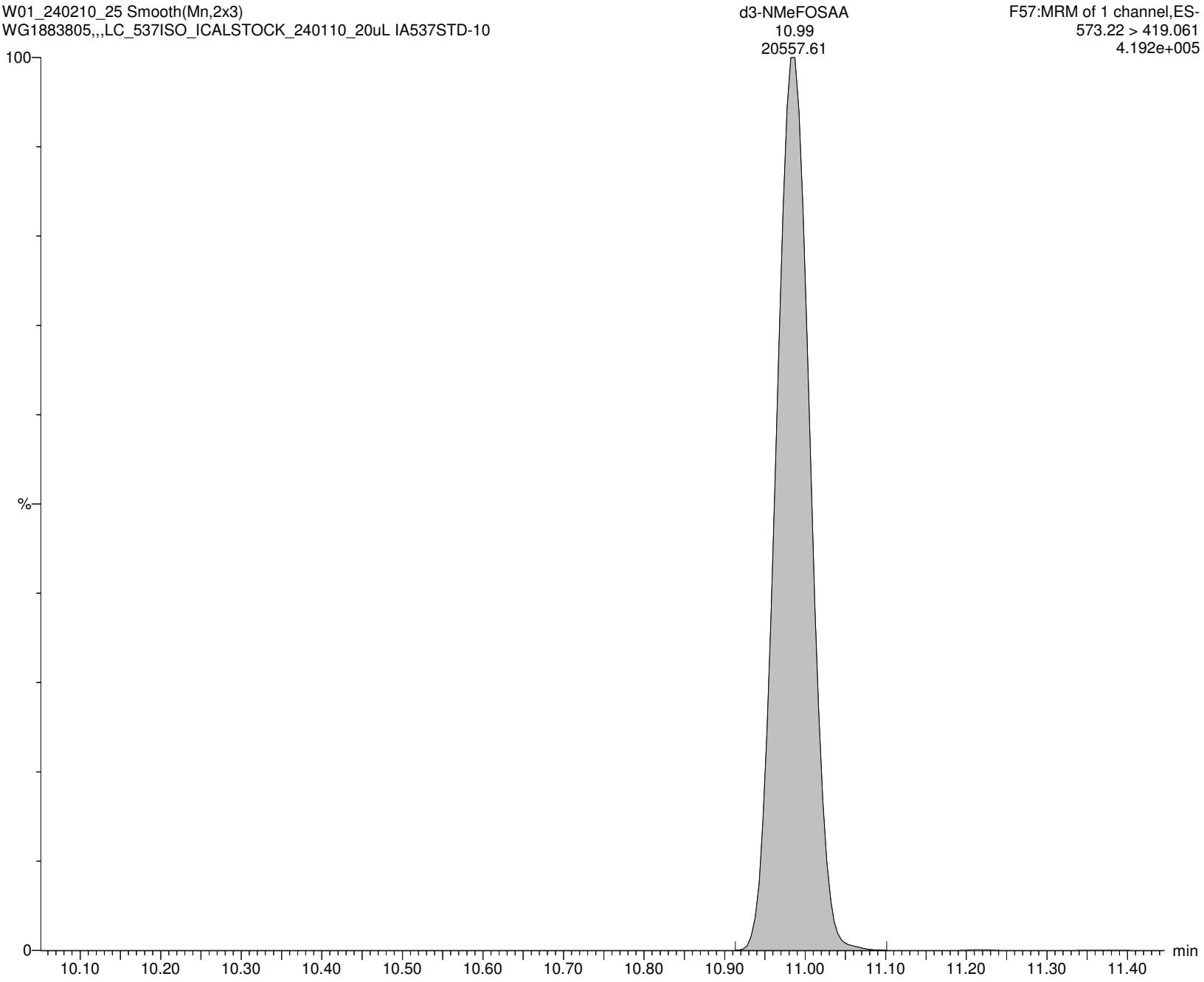
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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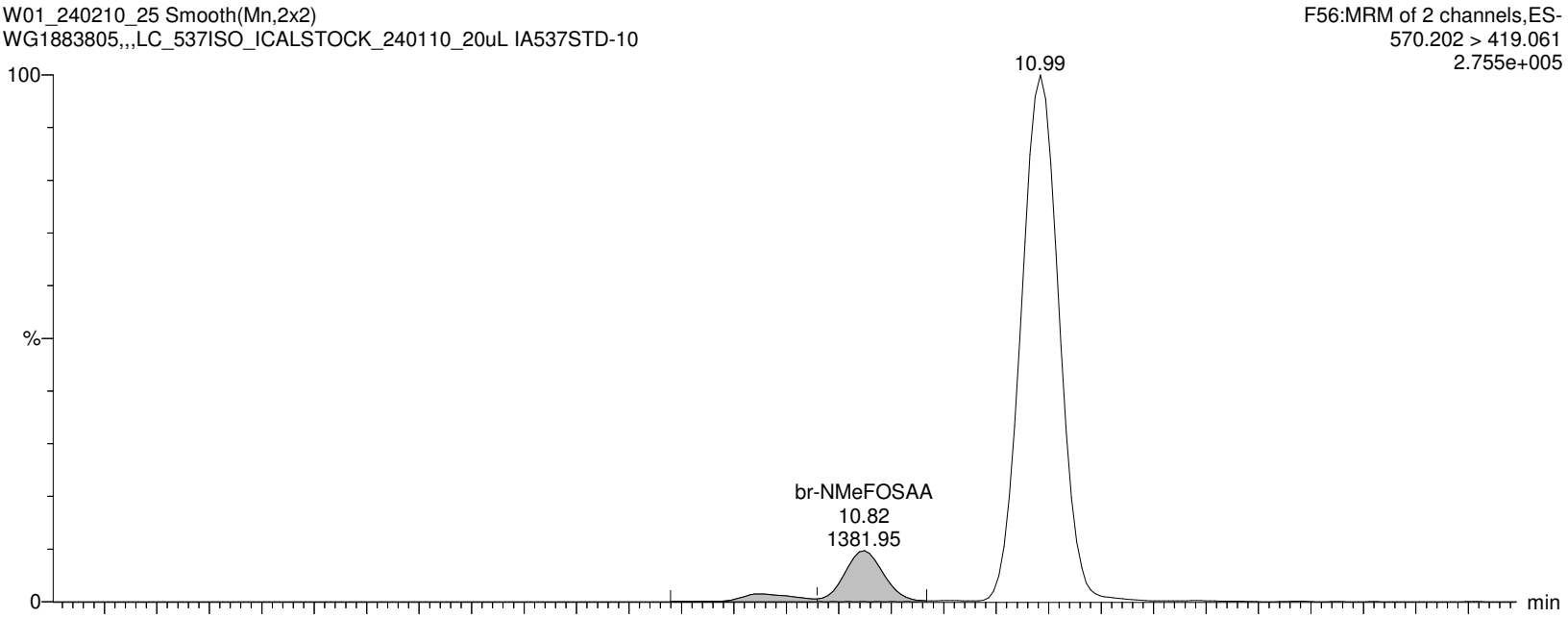

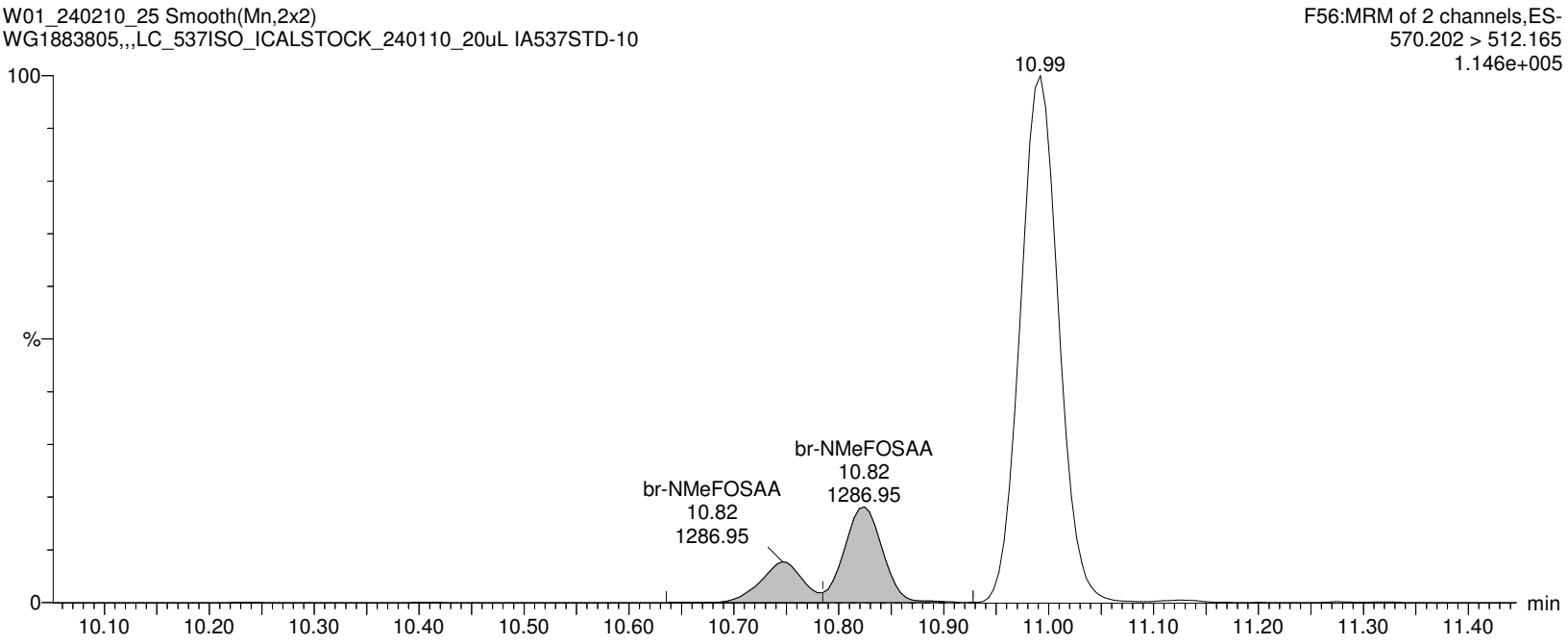

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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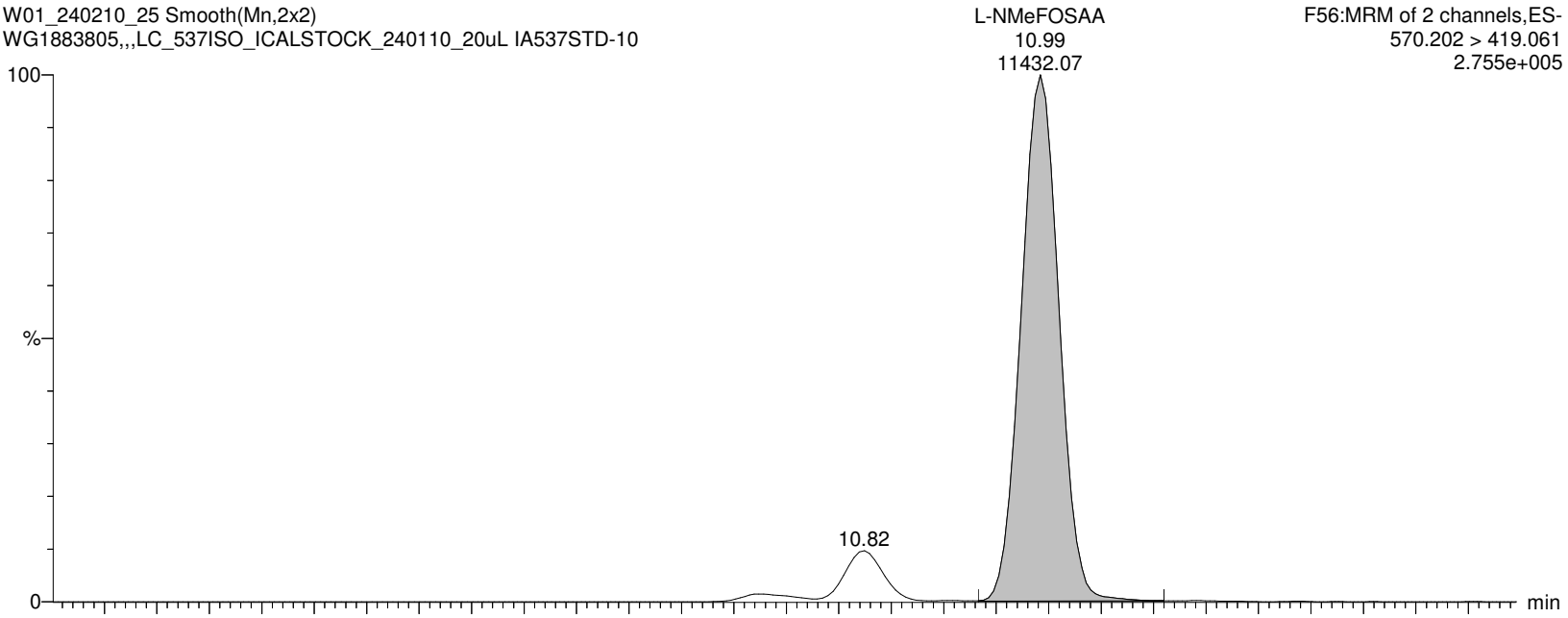
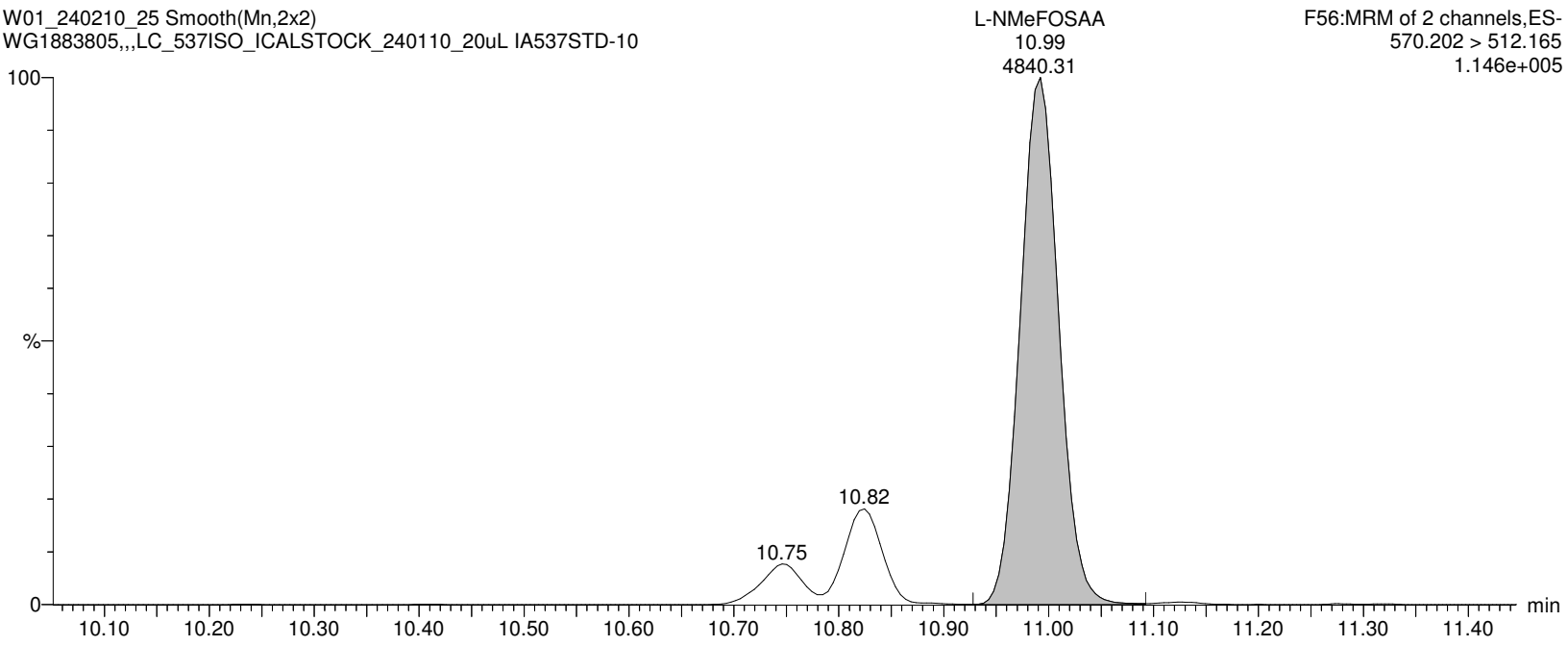
L-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Date: 10-Feb-2024
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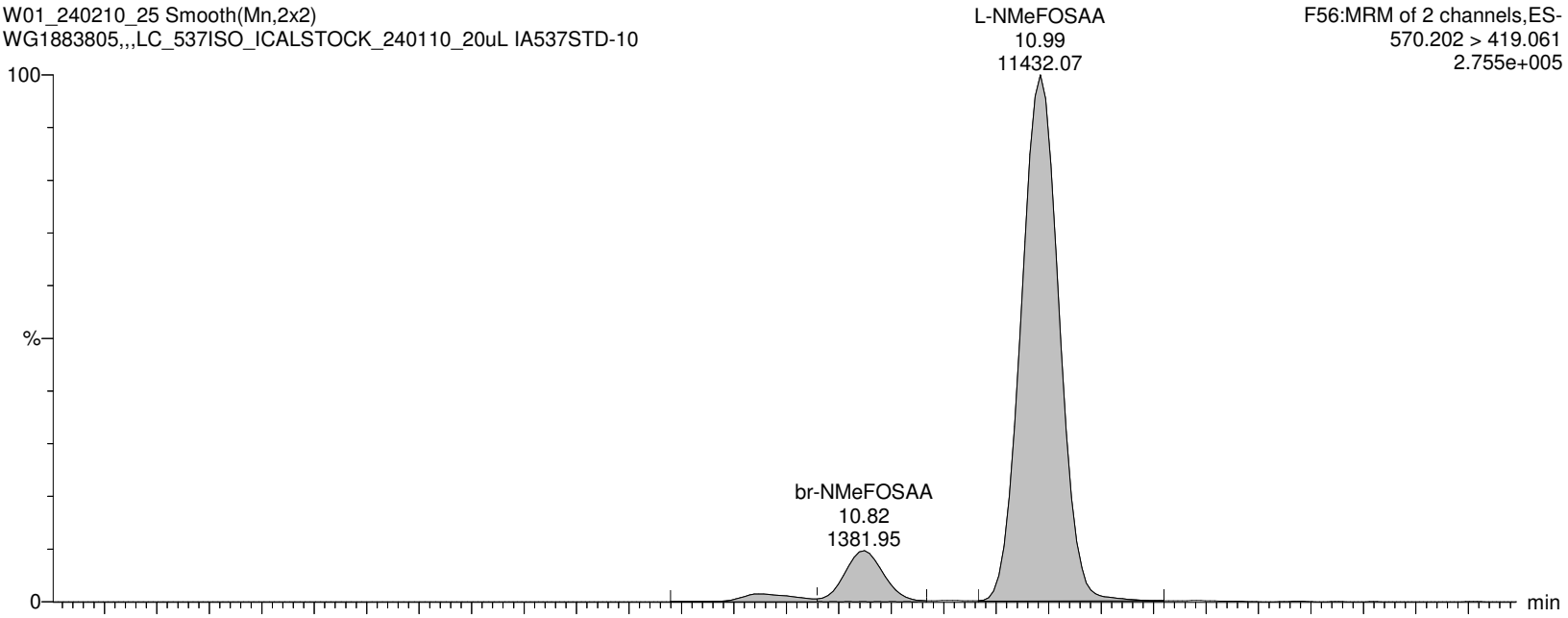

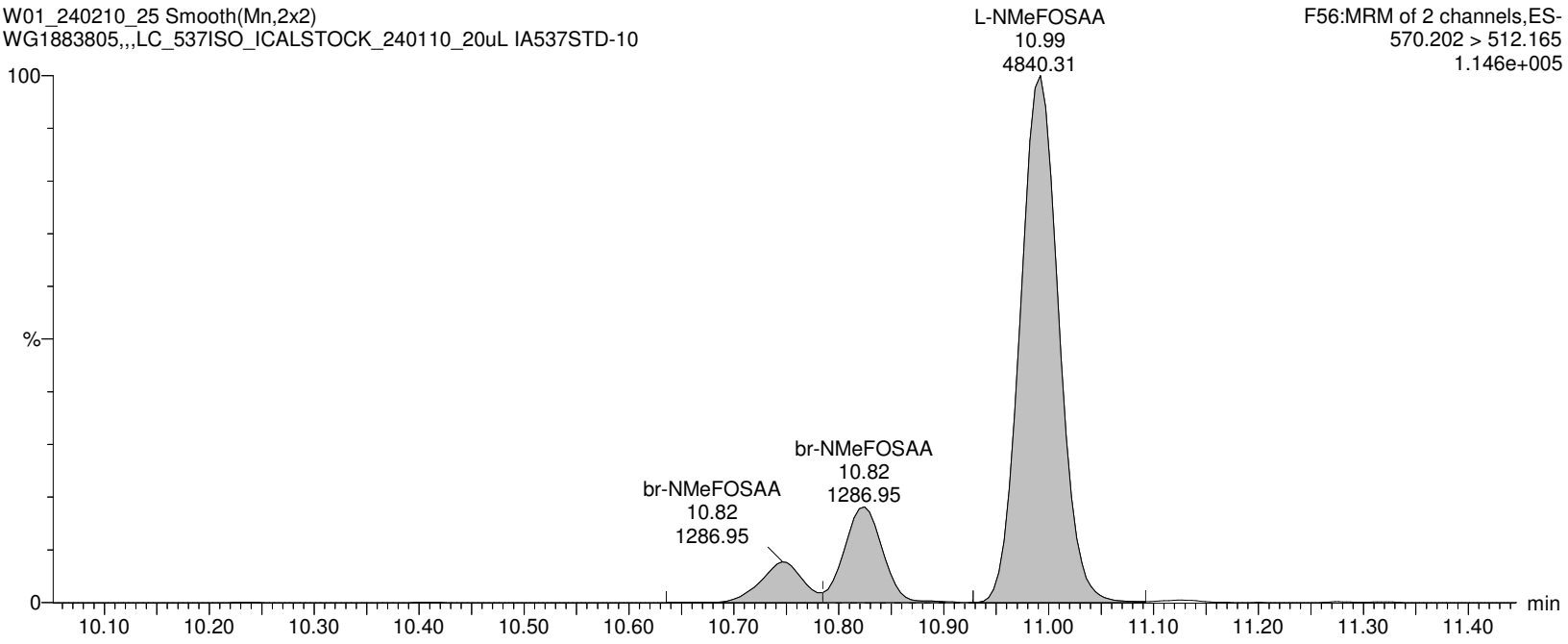

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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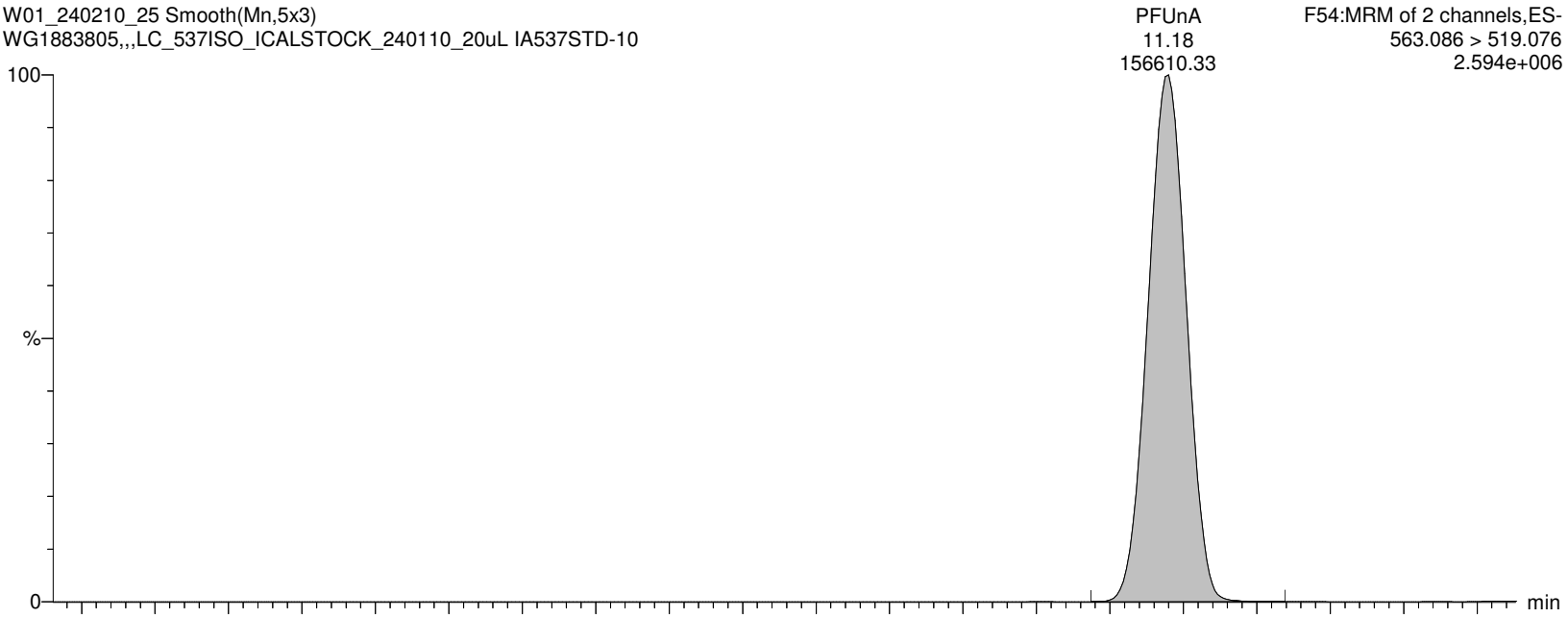

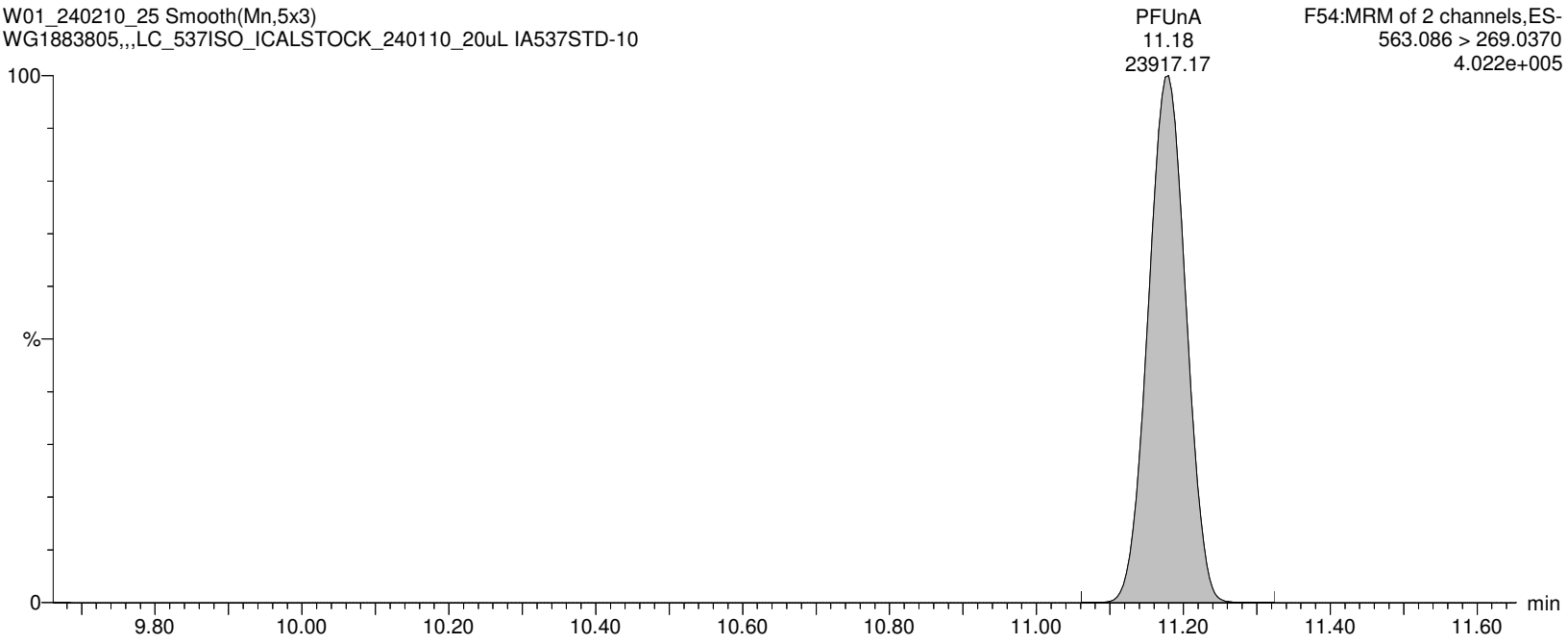

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,5
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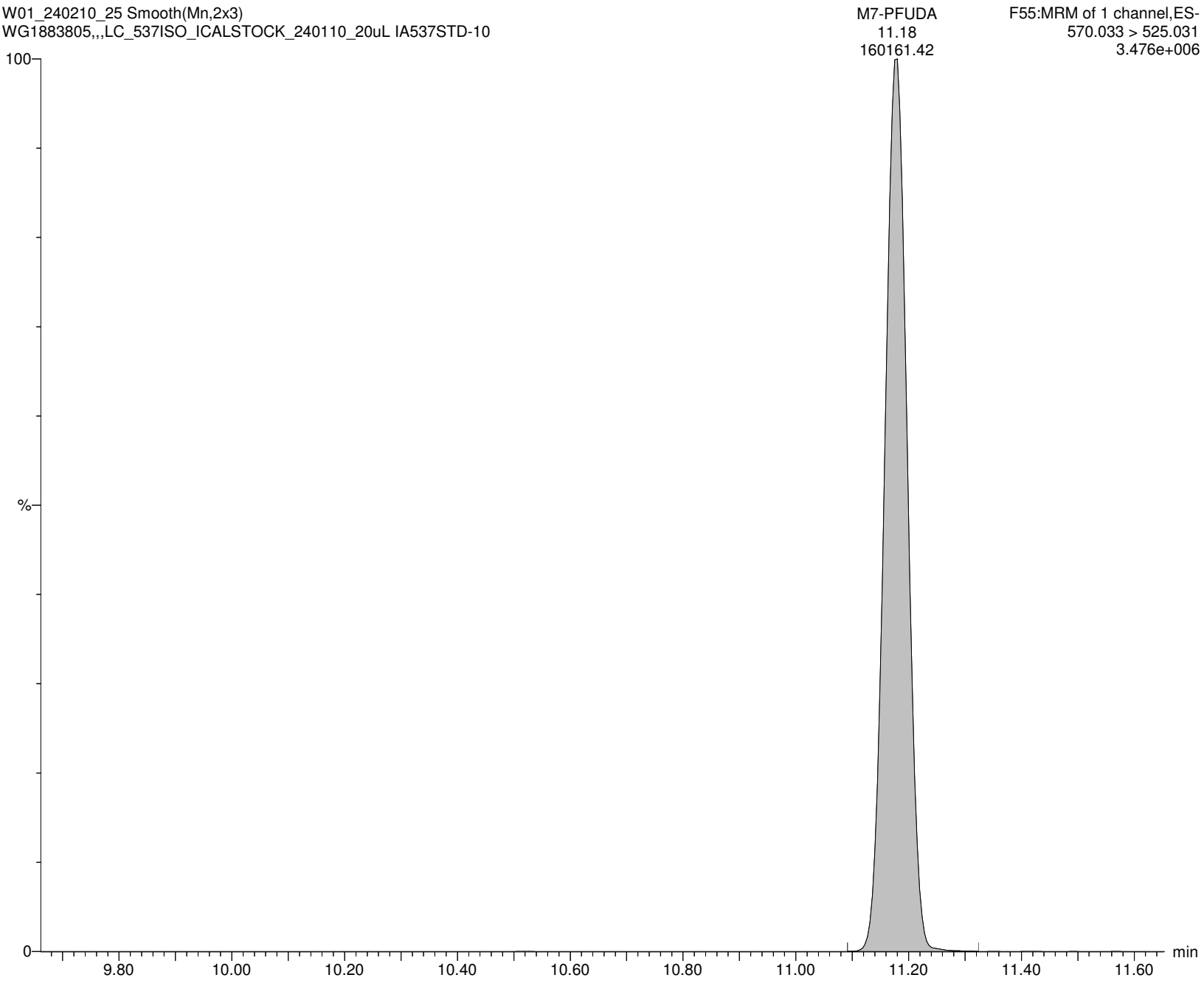
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Vial: 1:B,5
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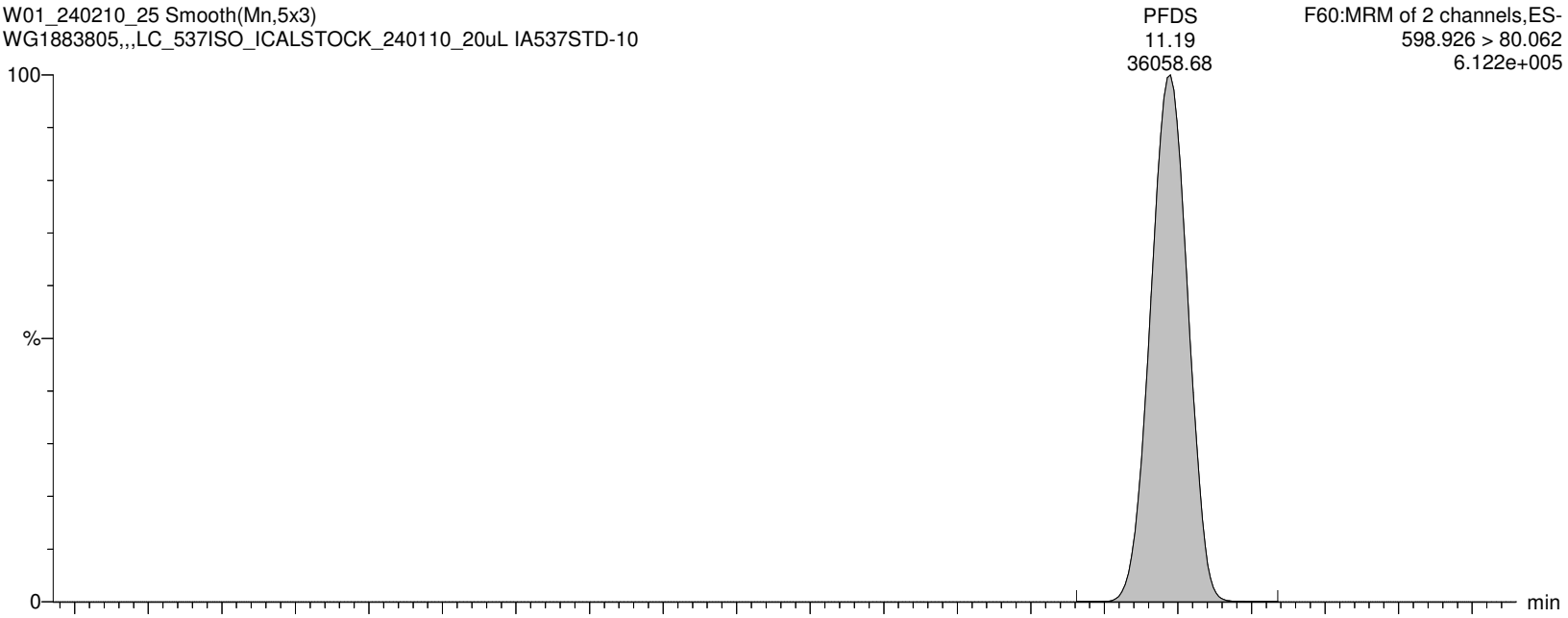

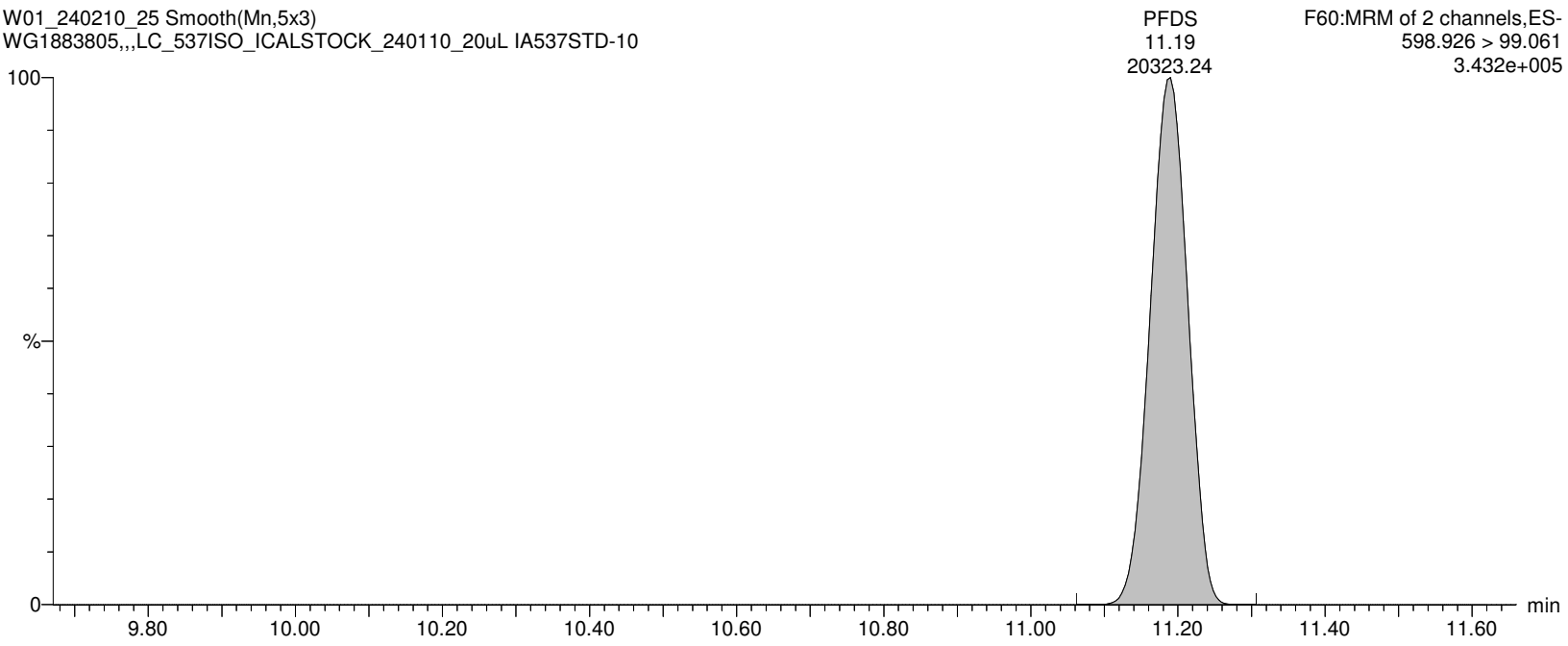

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,5
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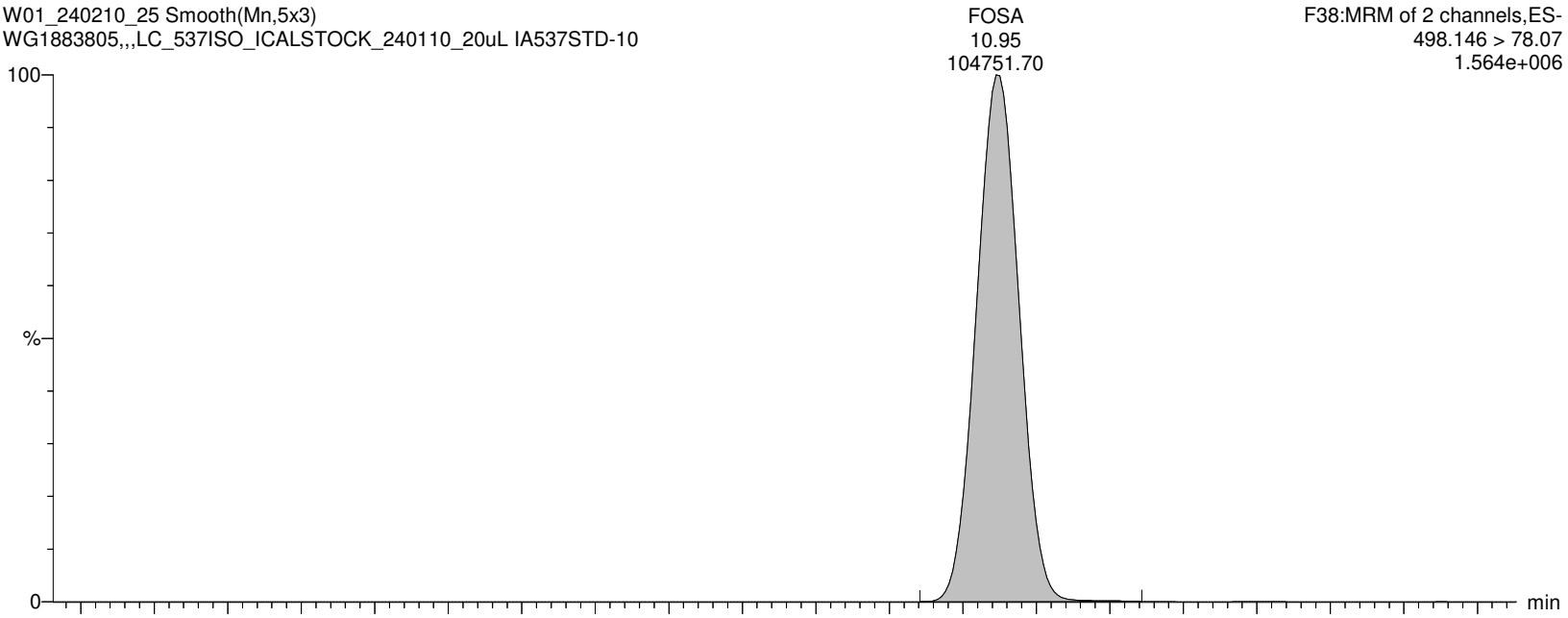
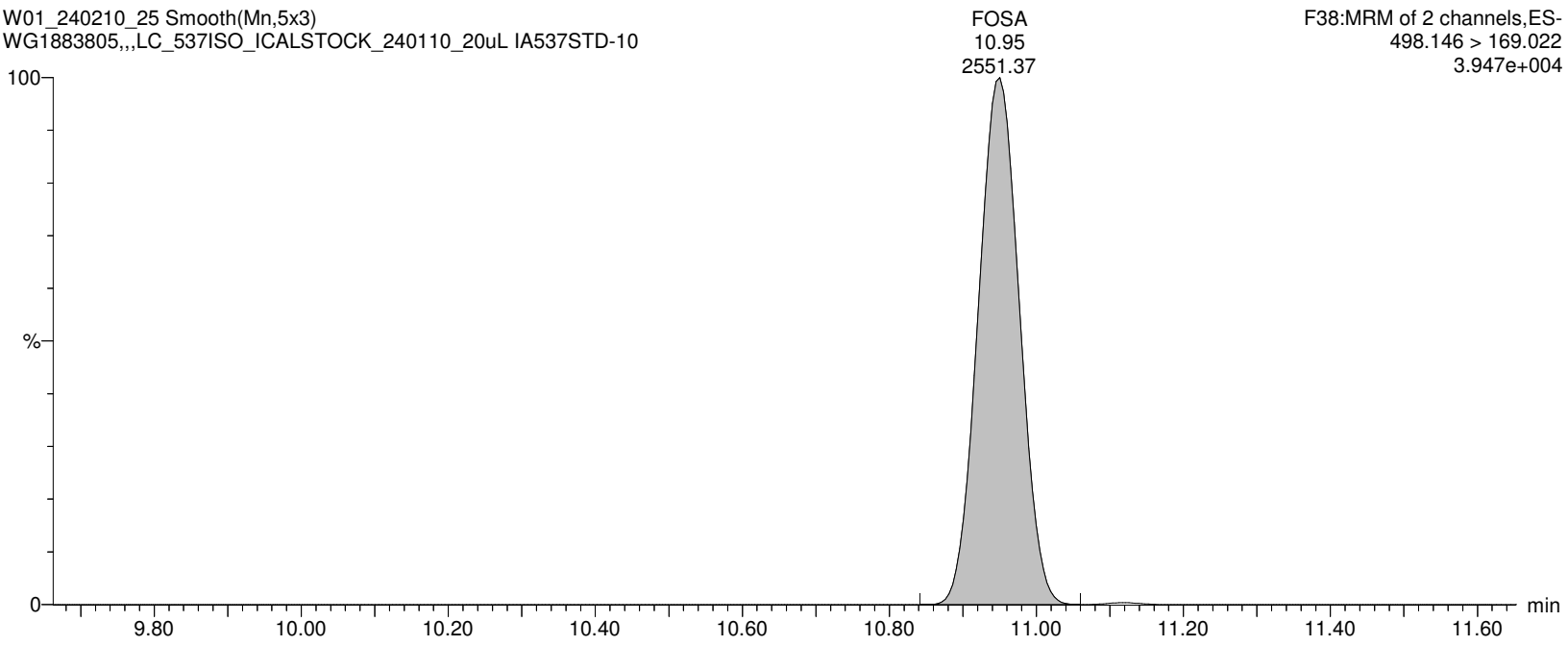
FOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,5
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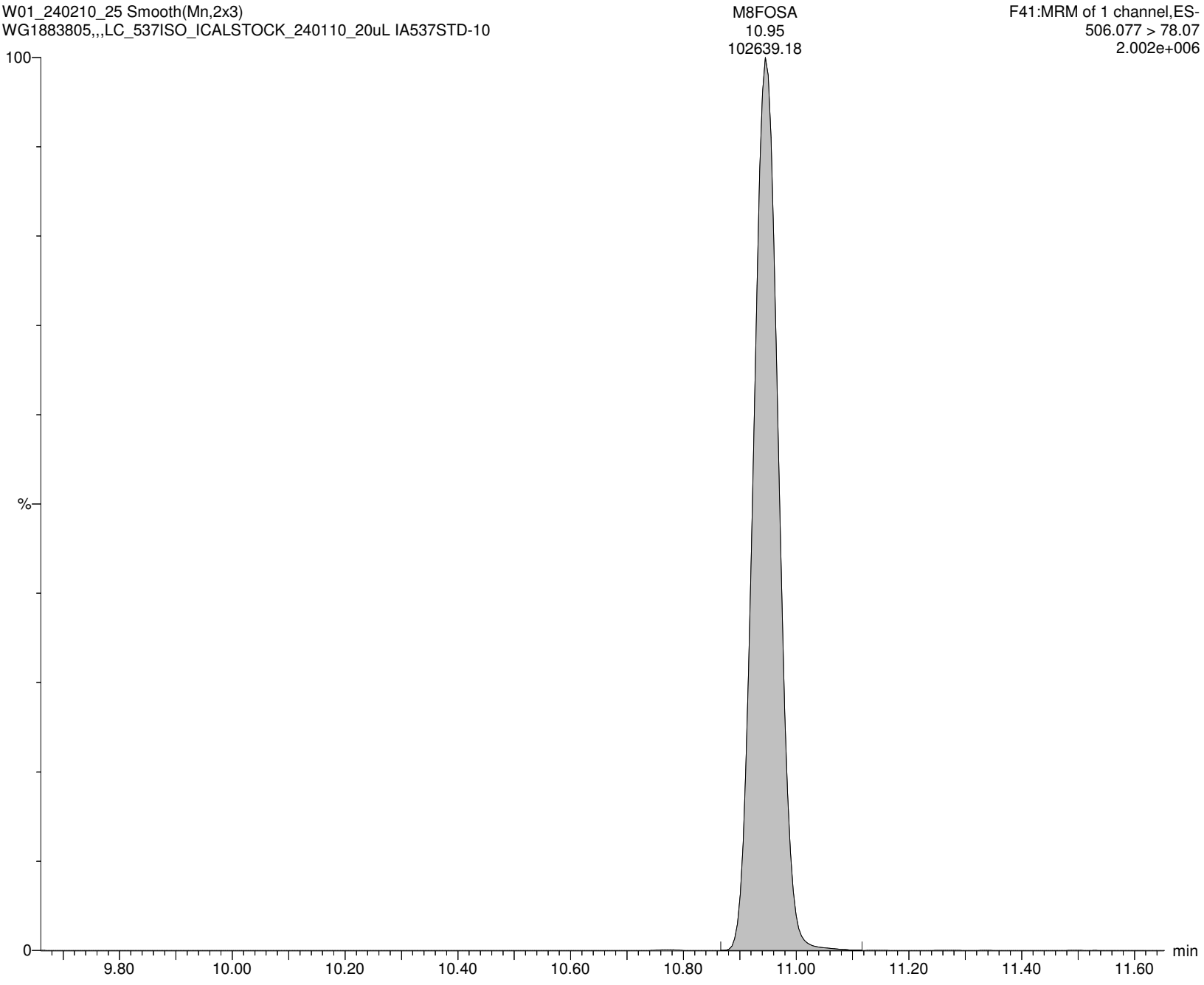

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

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ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
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Vial: 1:B,5
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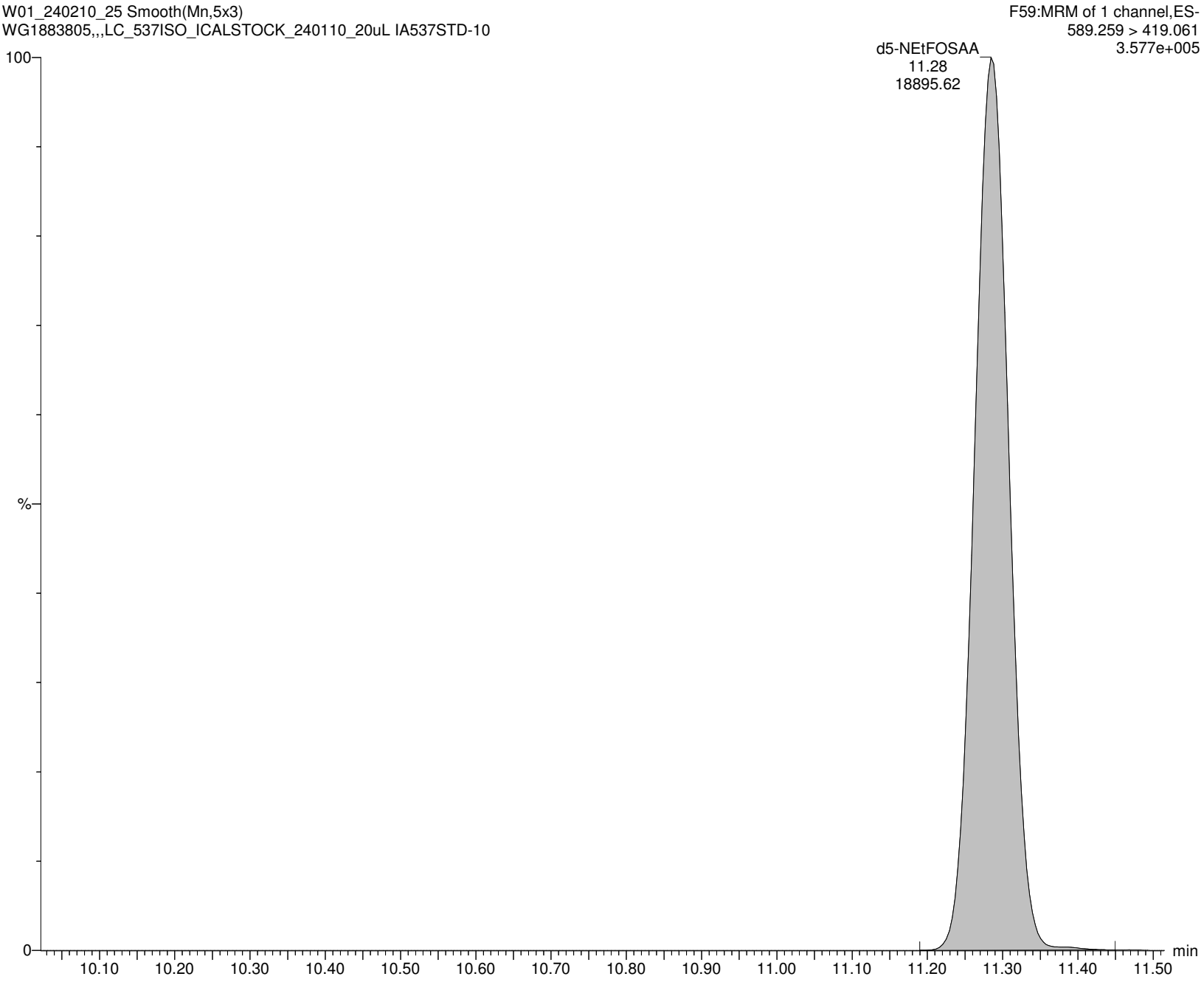

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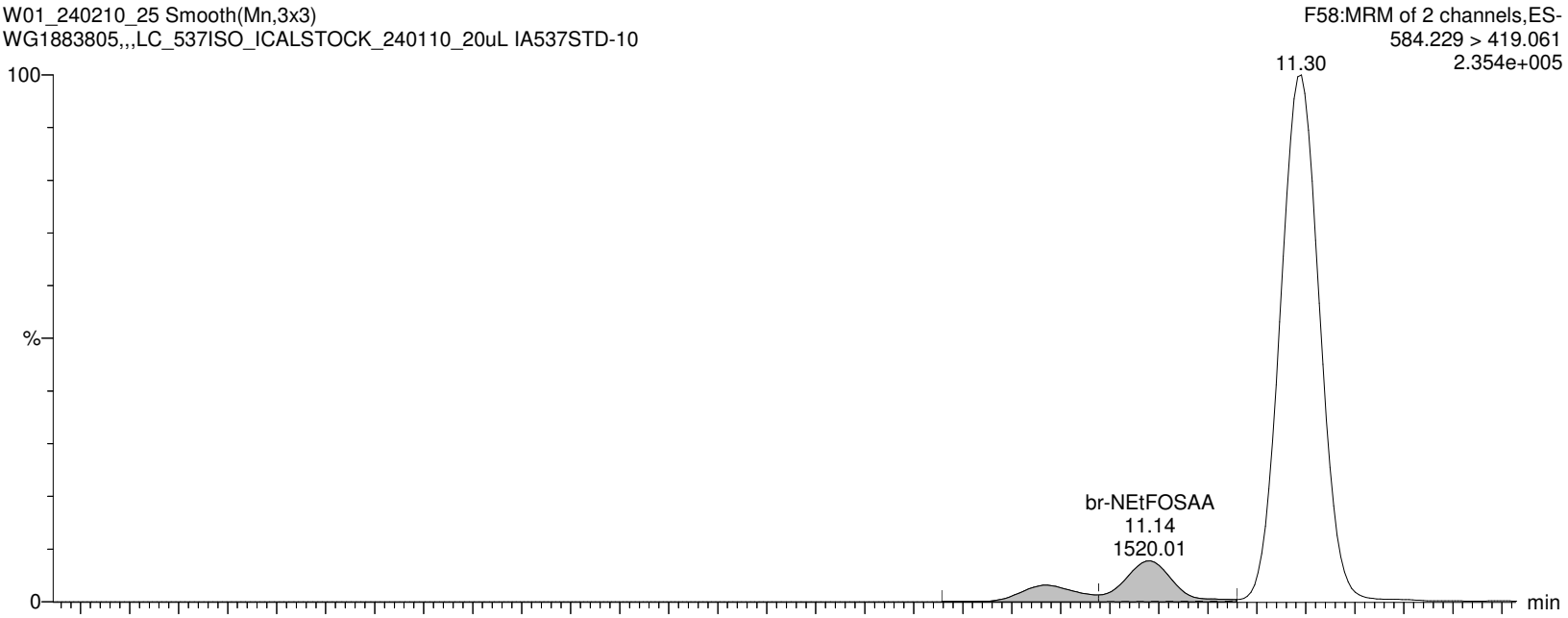

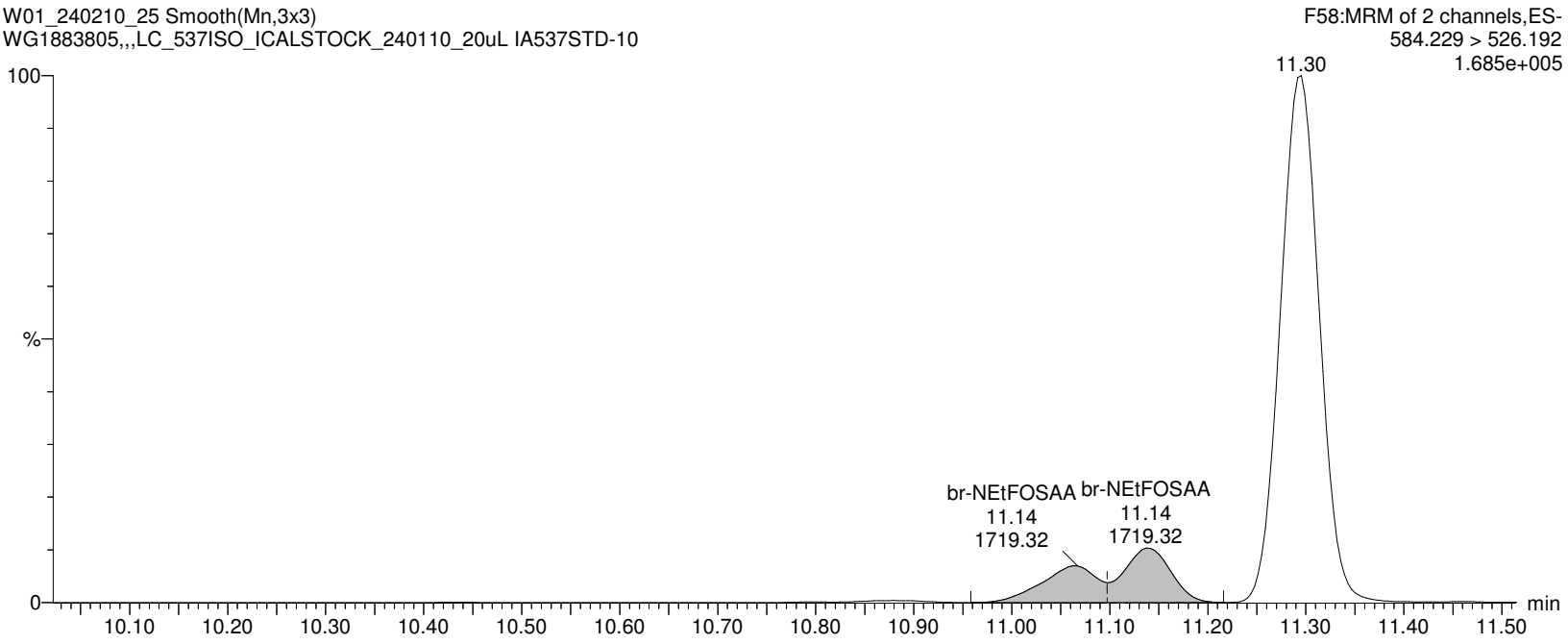

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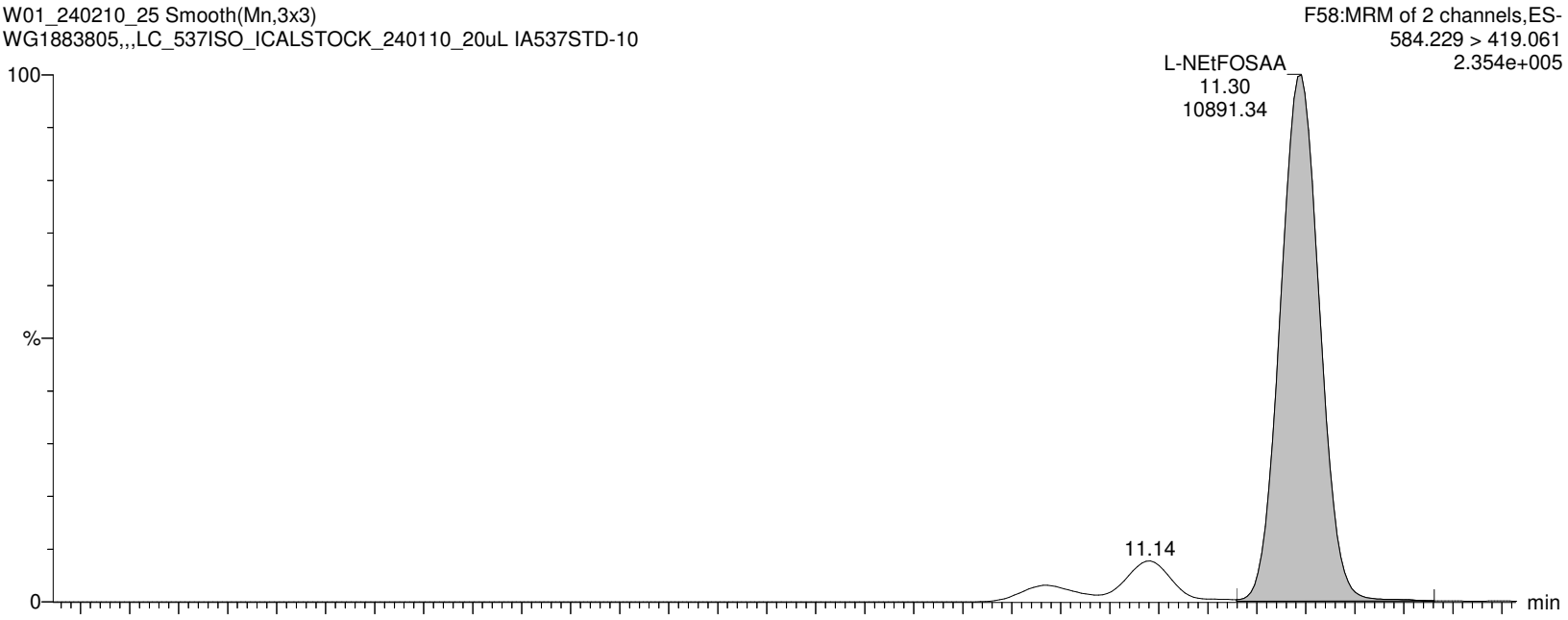

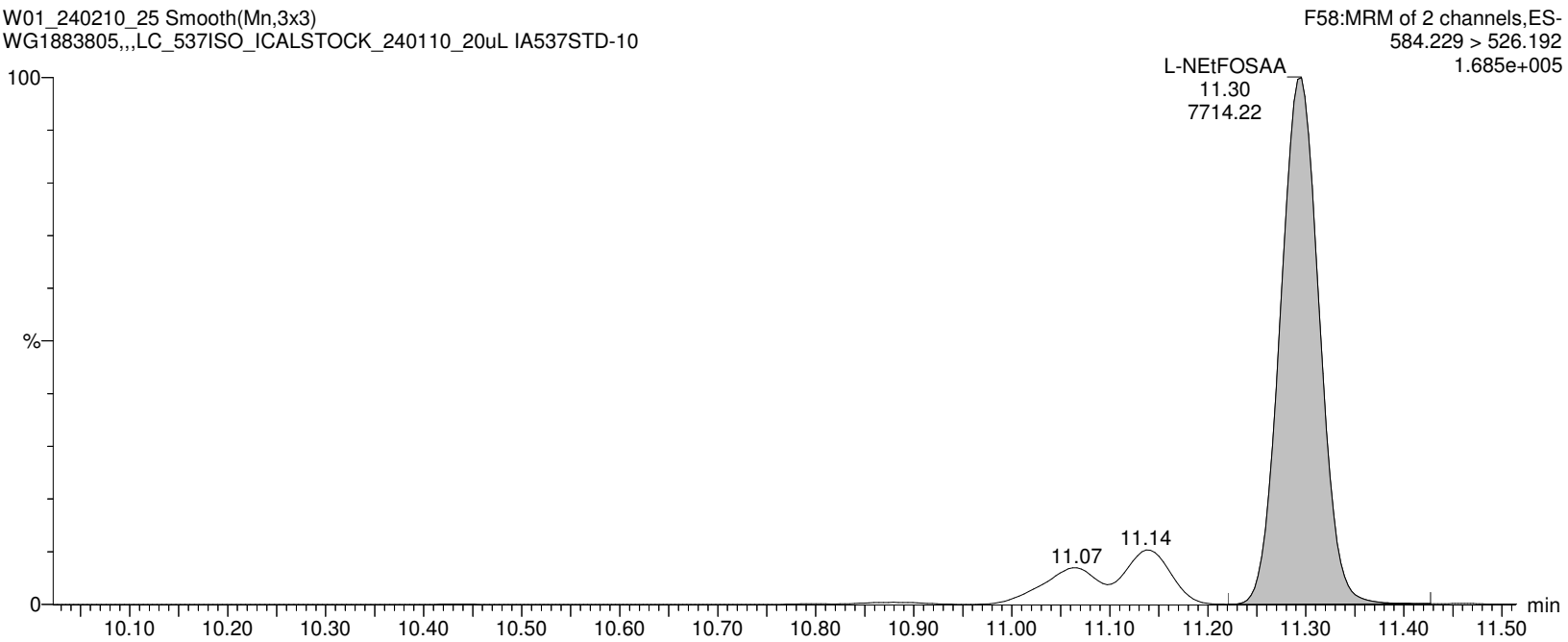

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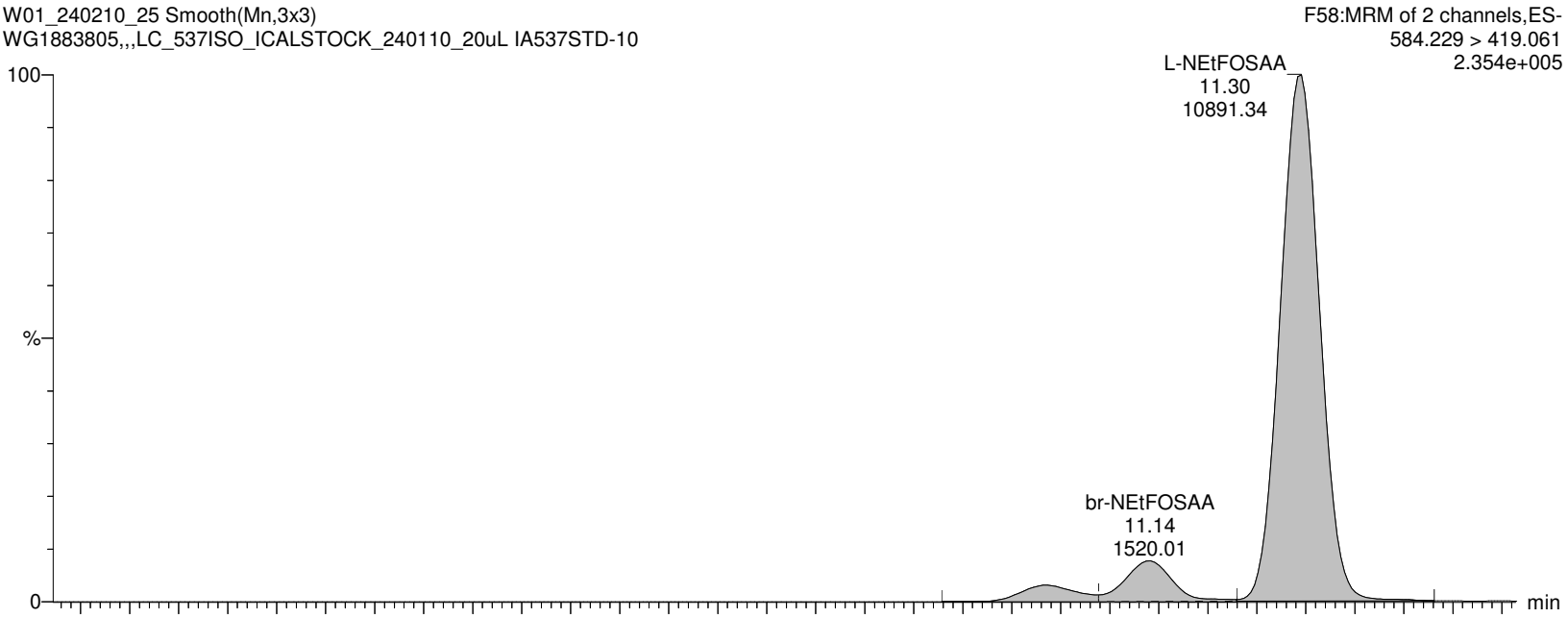

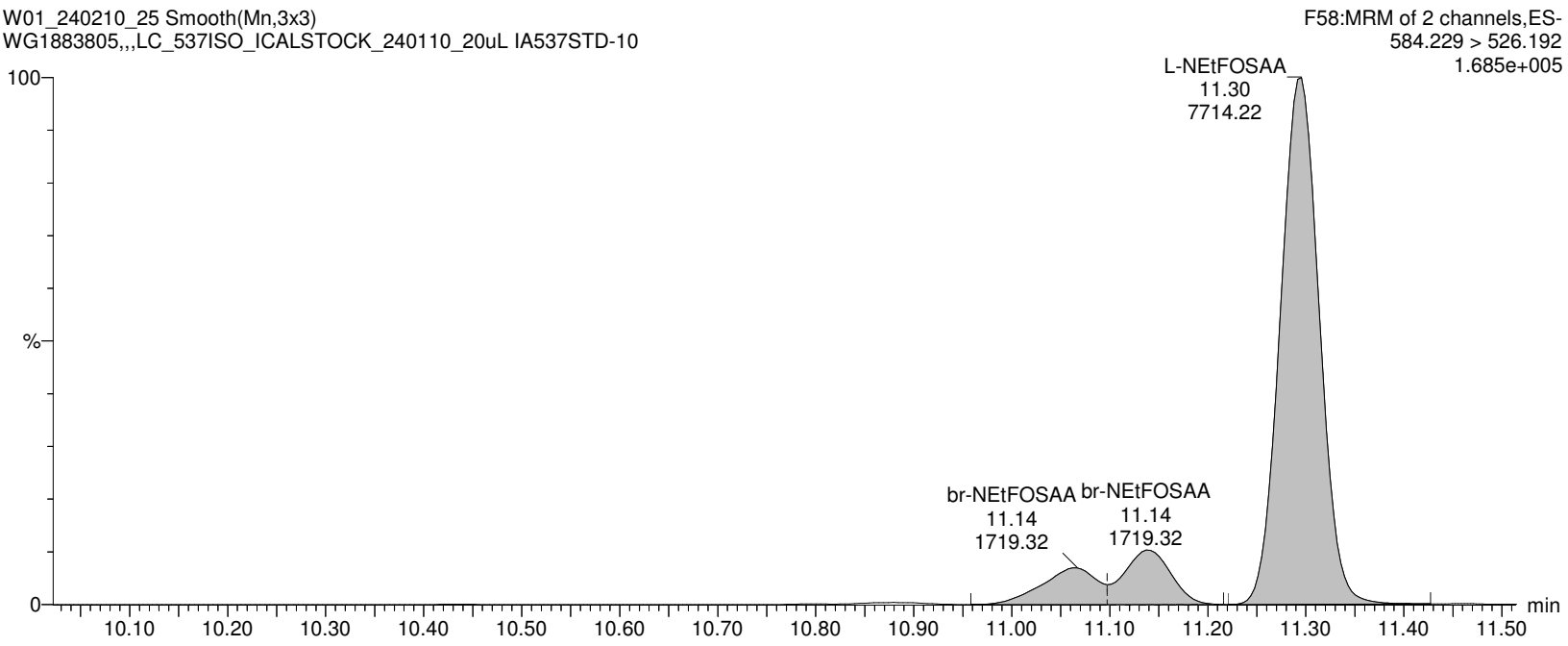

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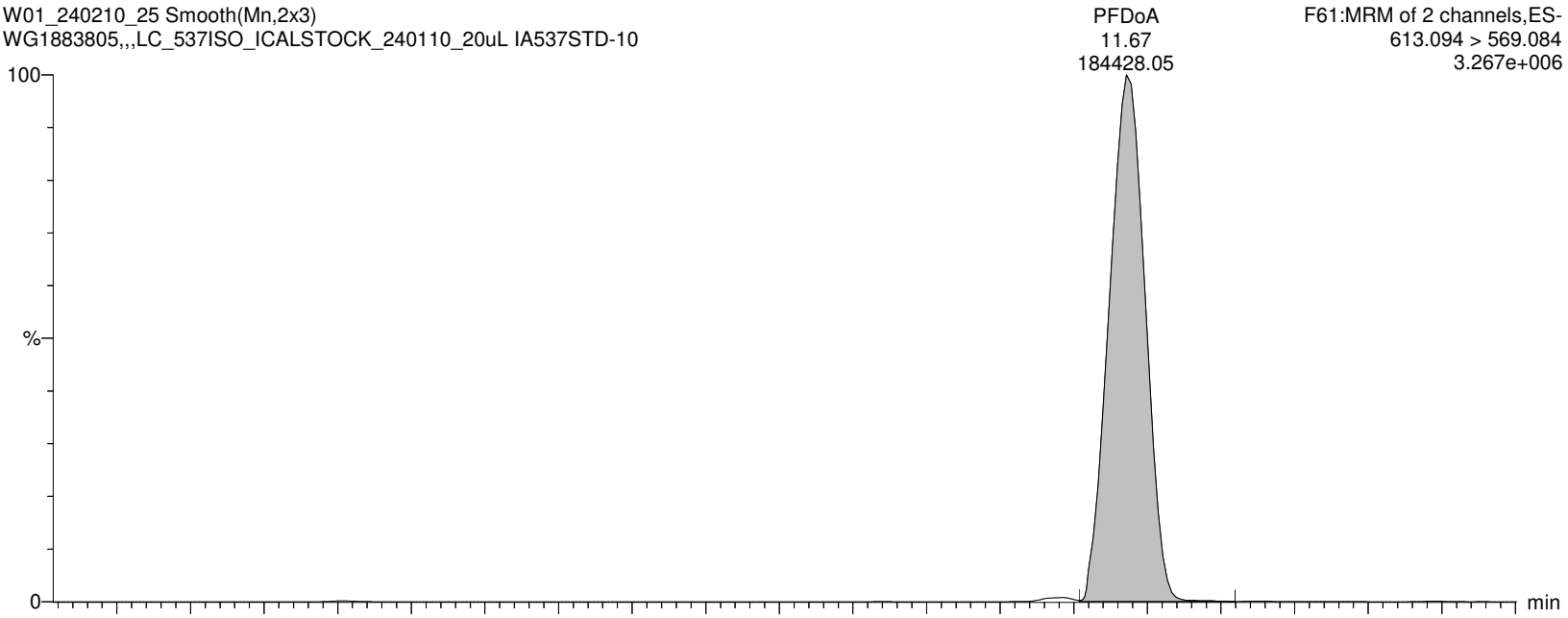

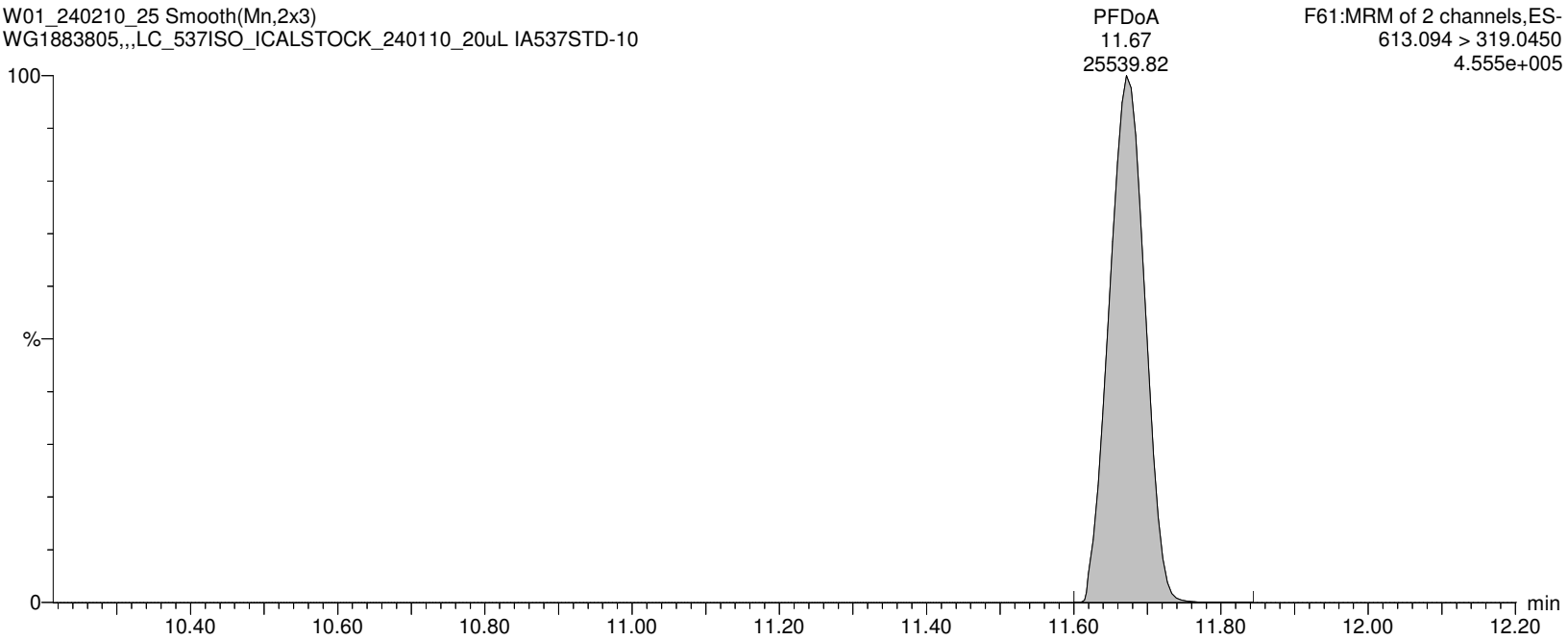

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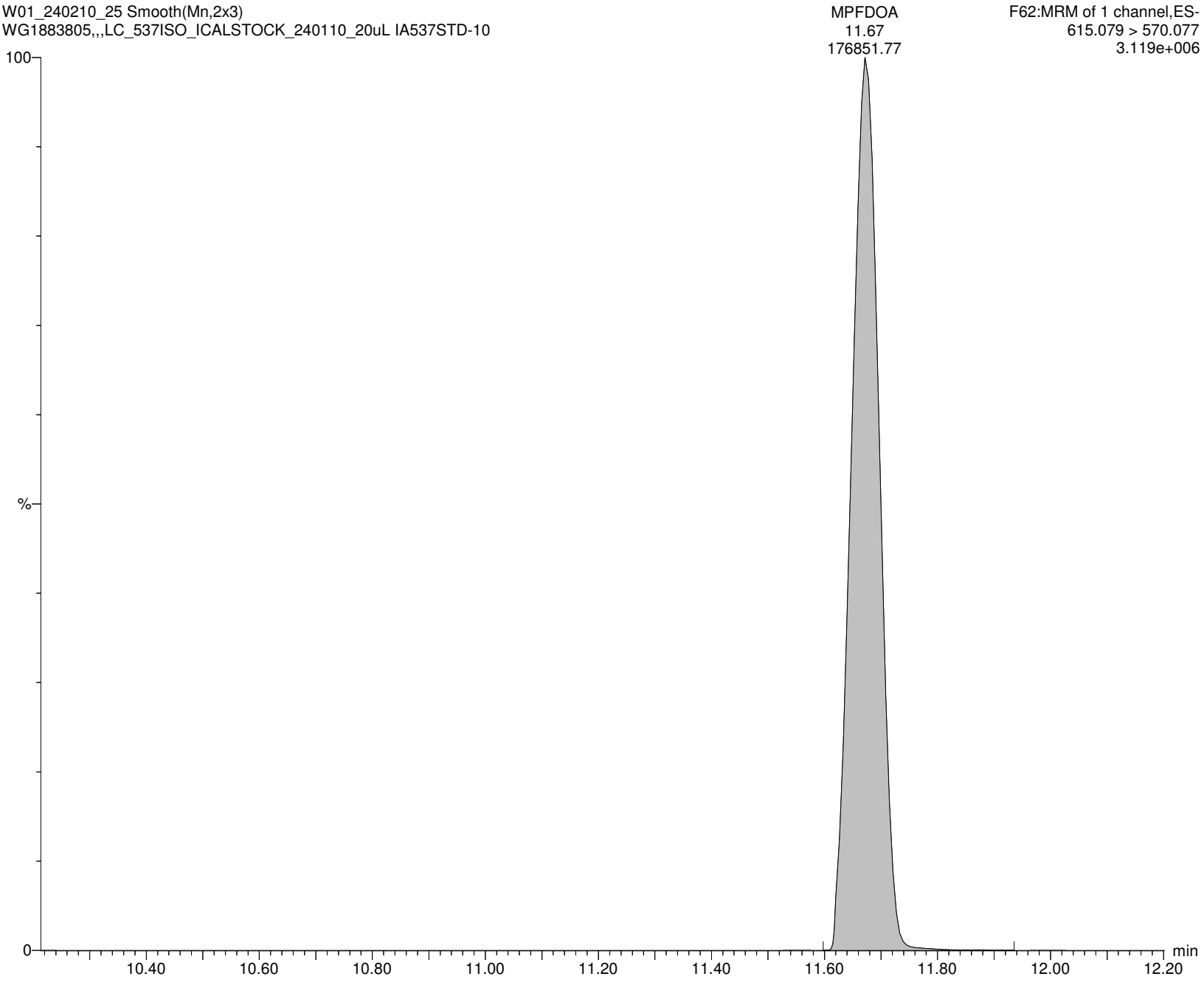

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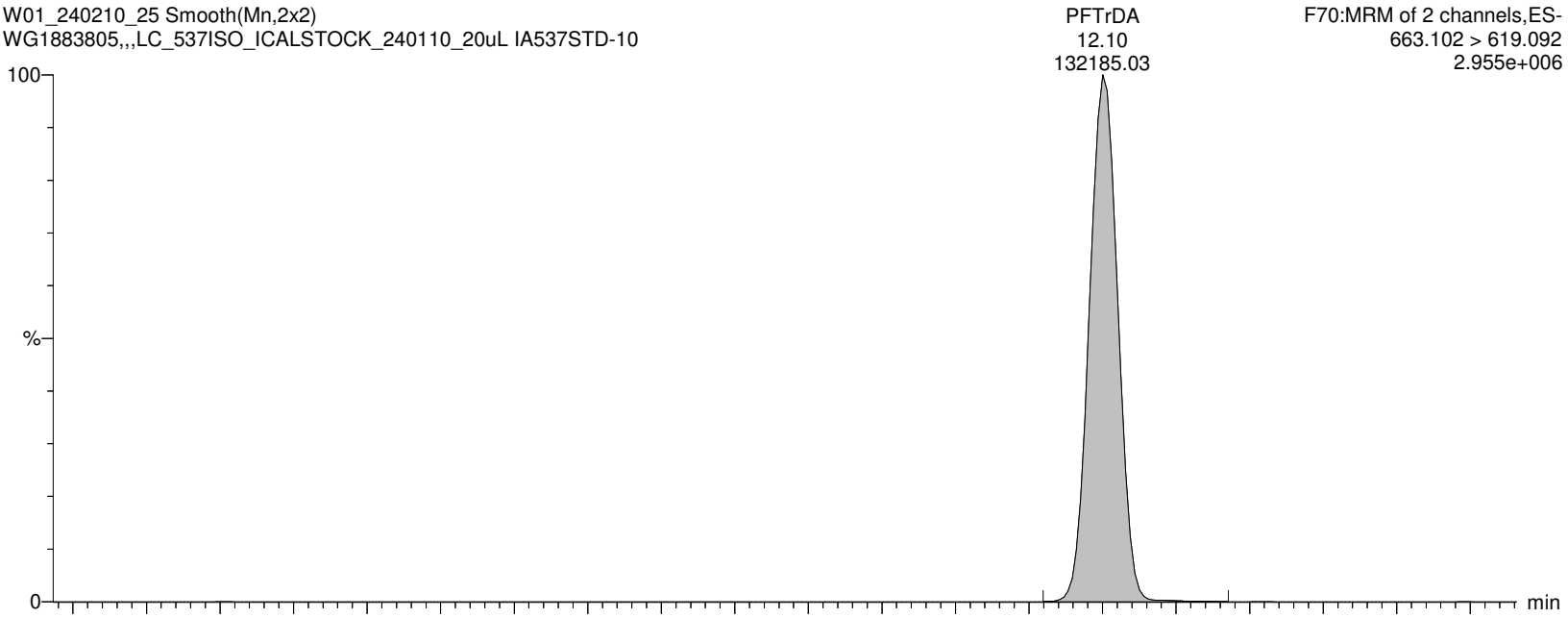

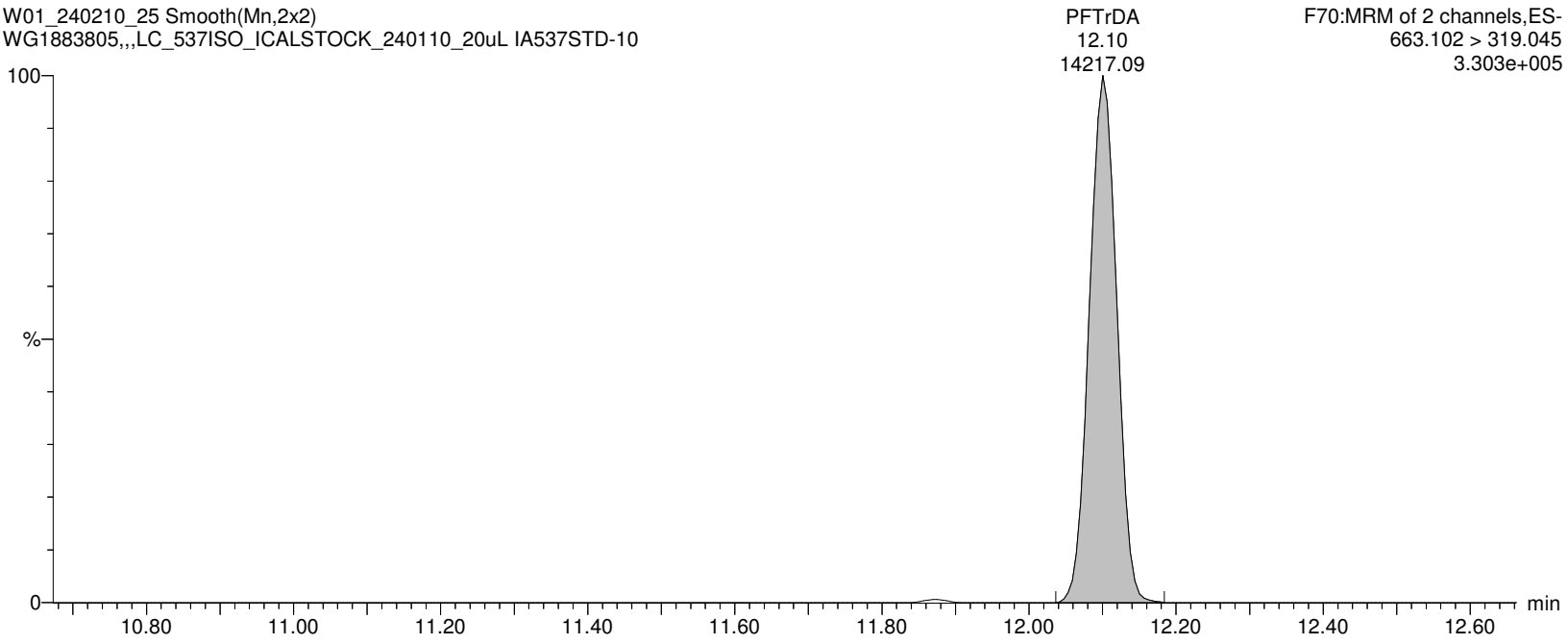

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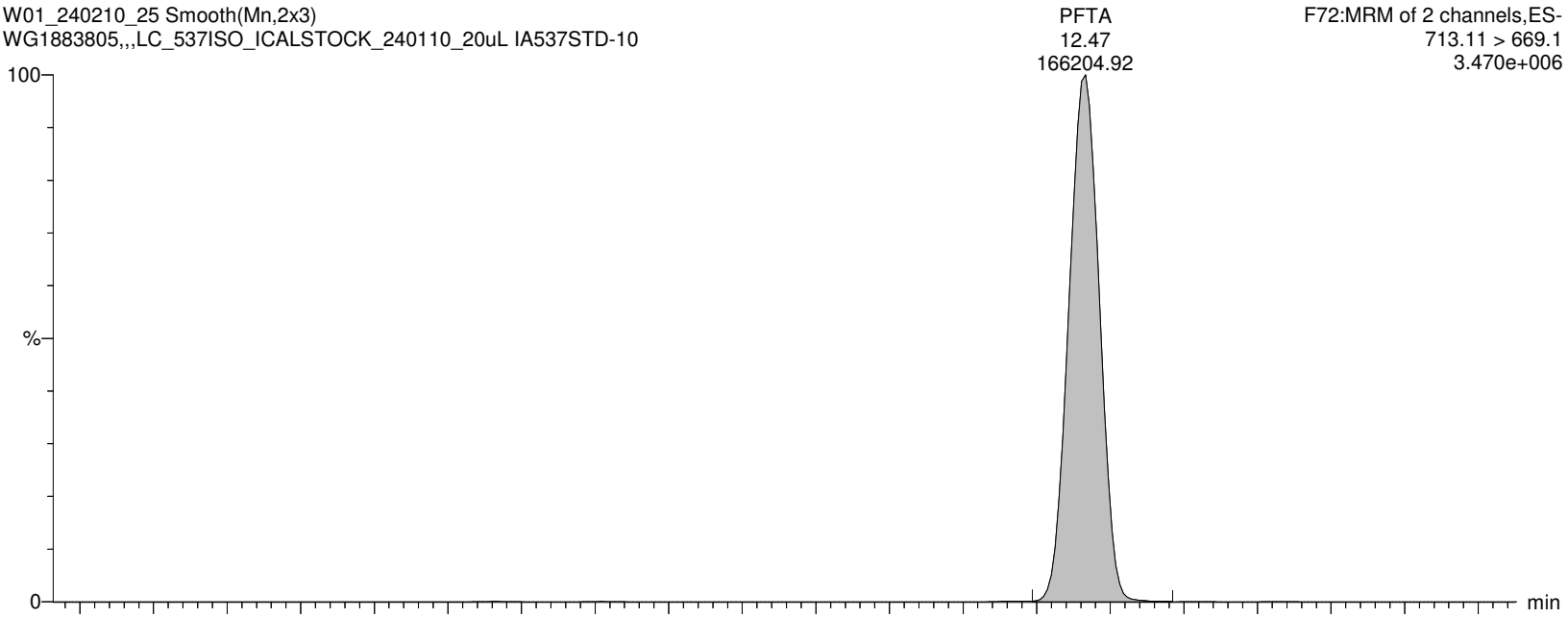

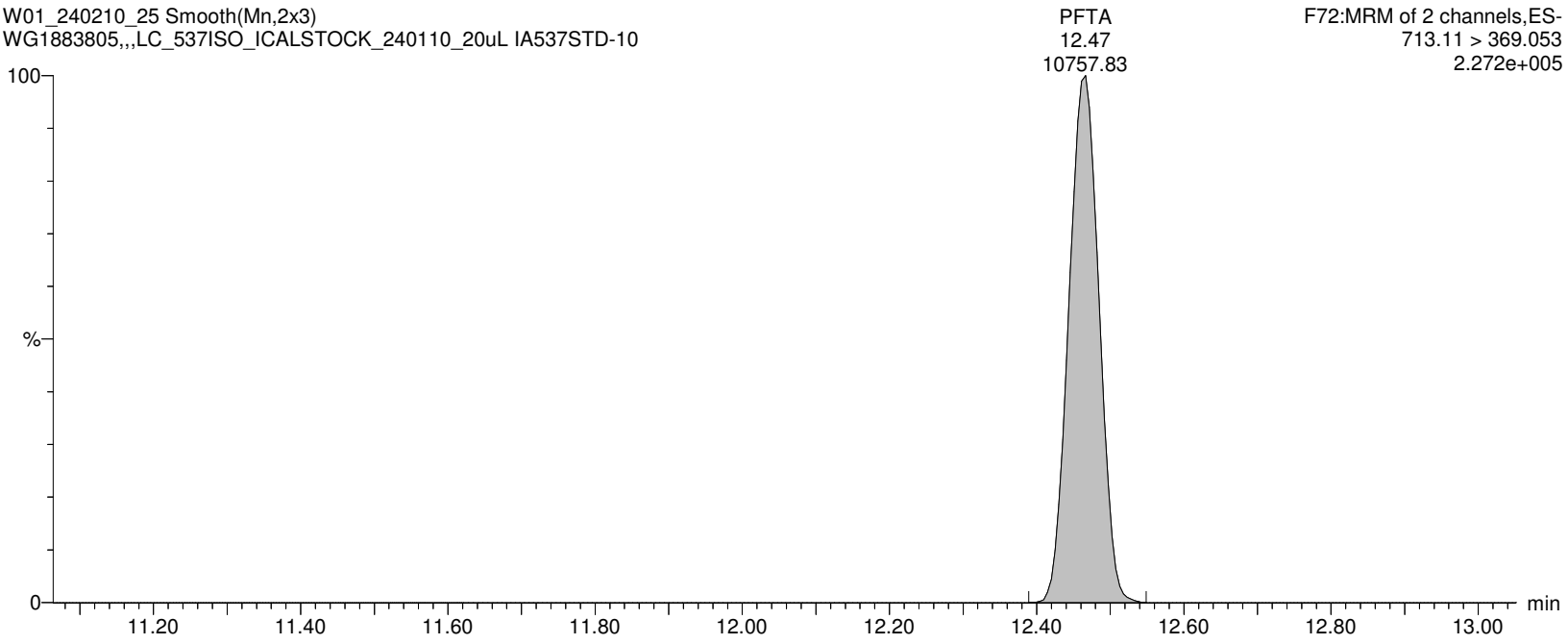

all concentration units in (ng/mL)

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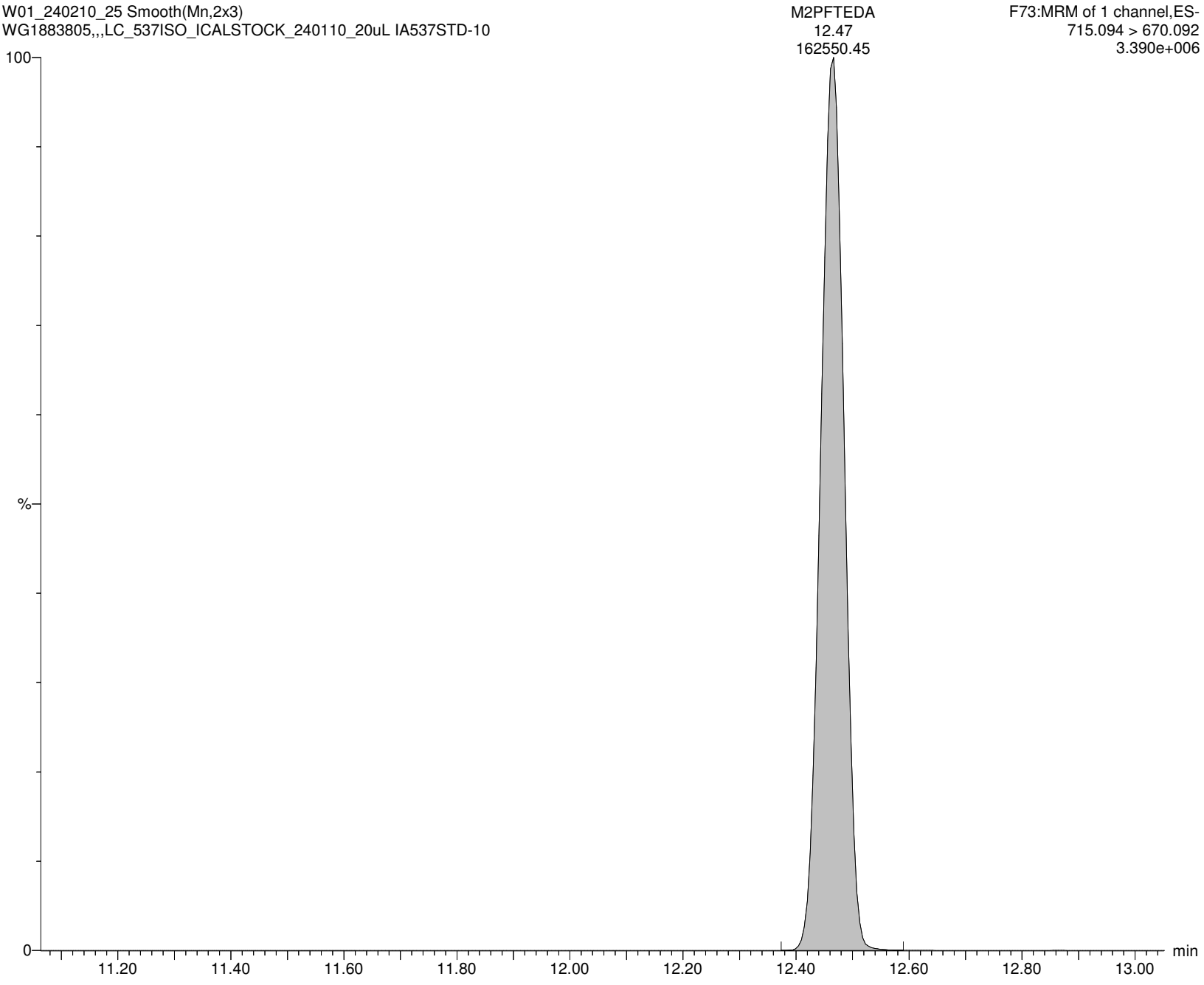

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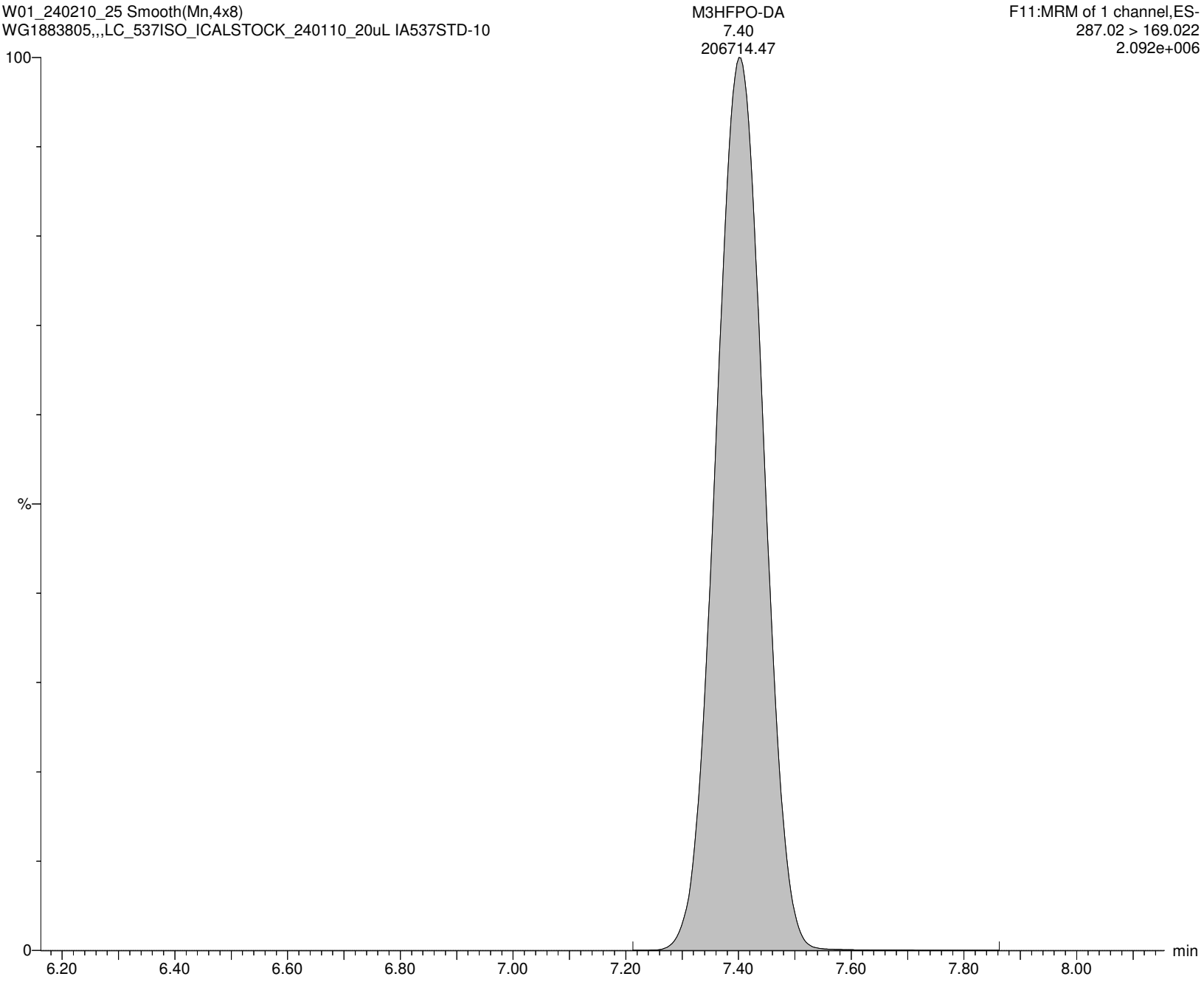

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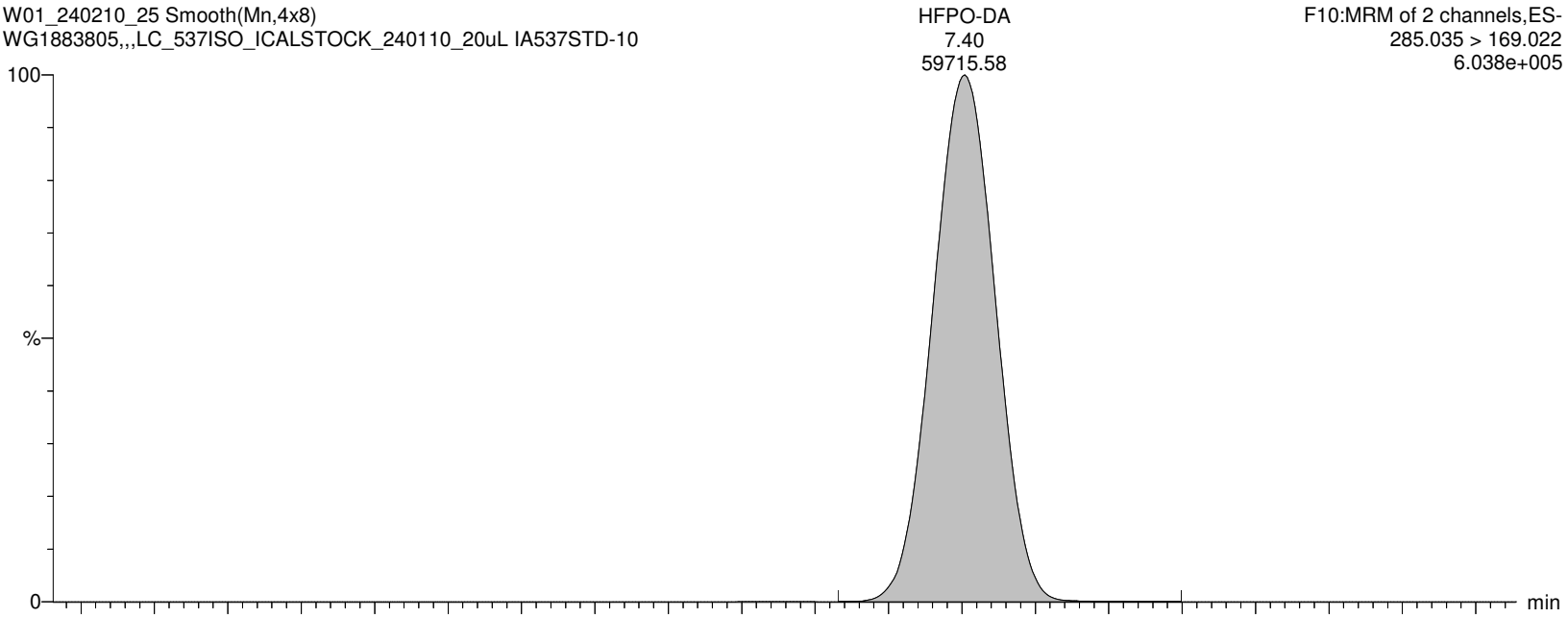

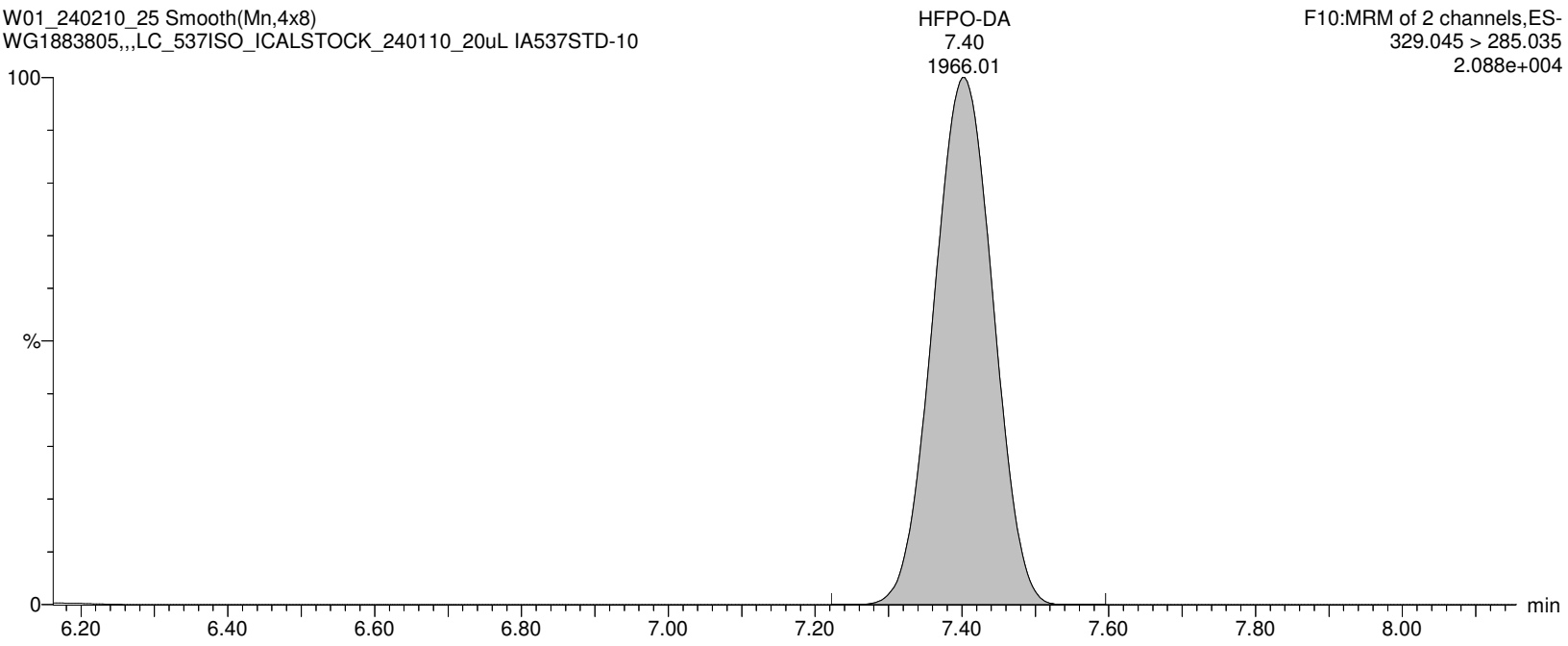

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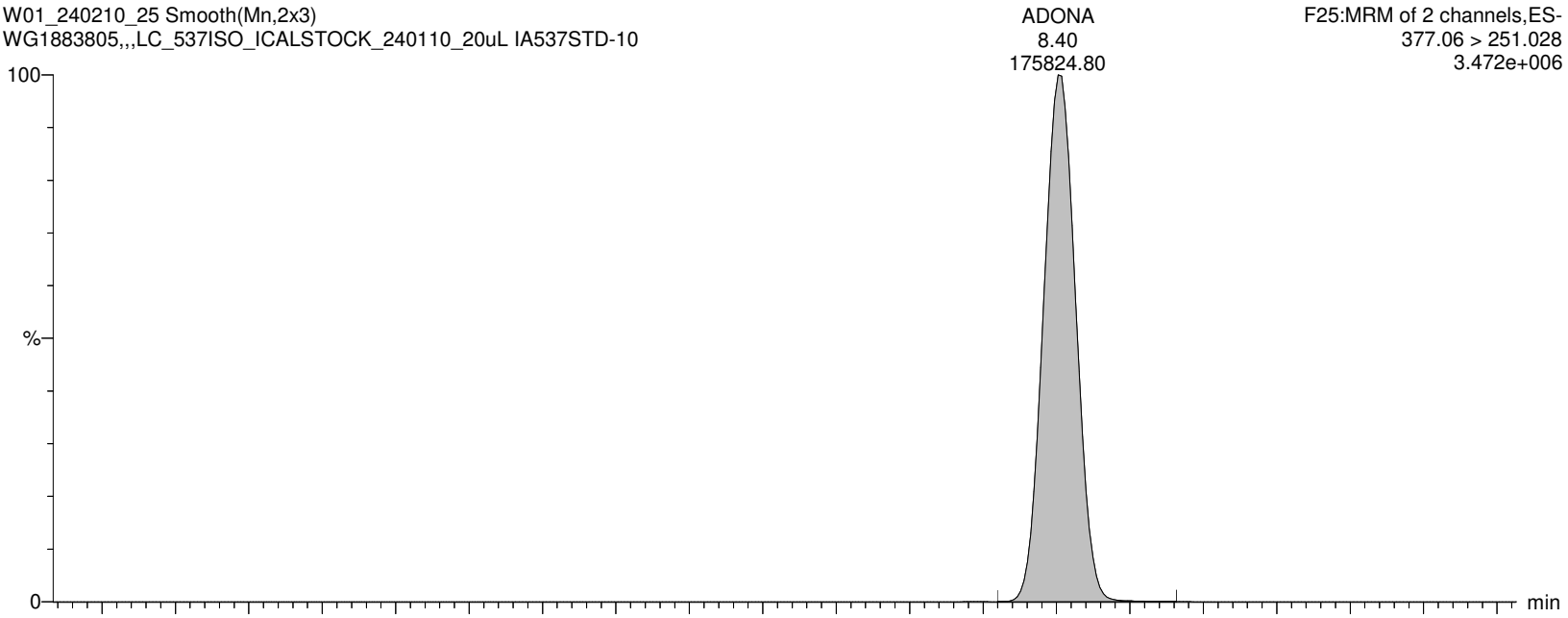

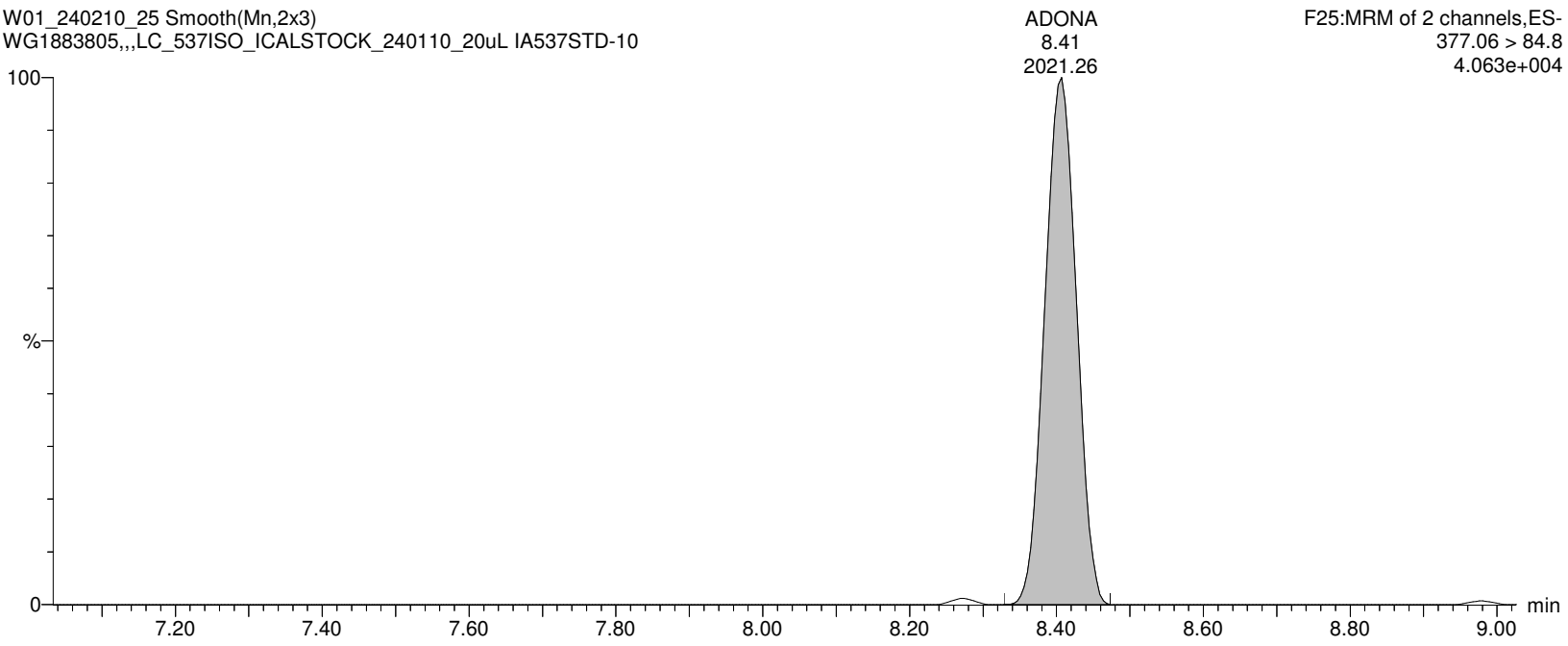

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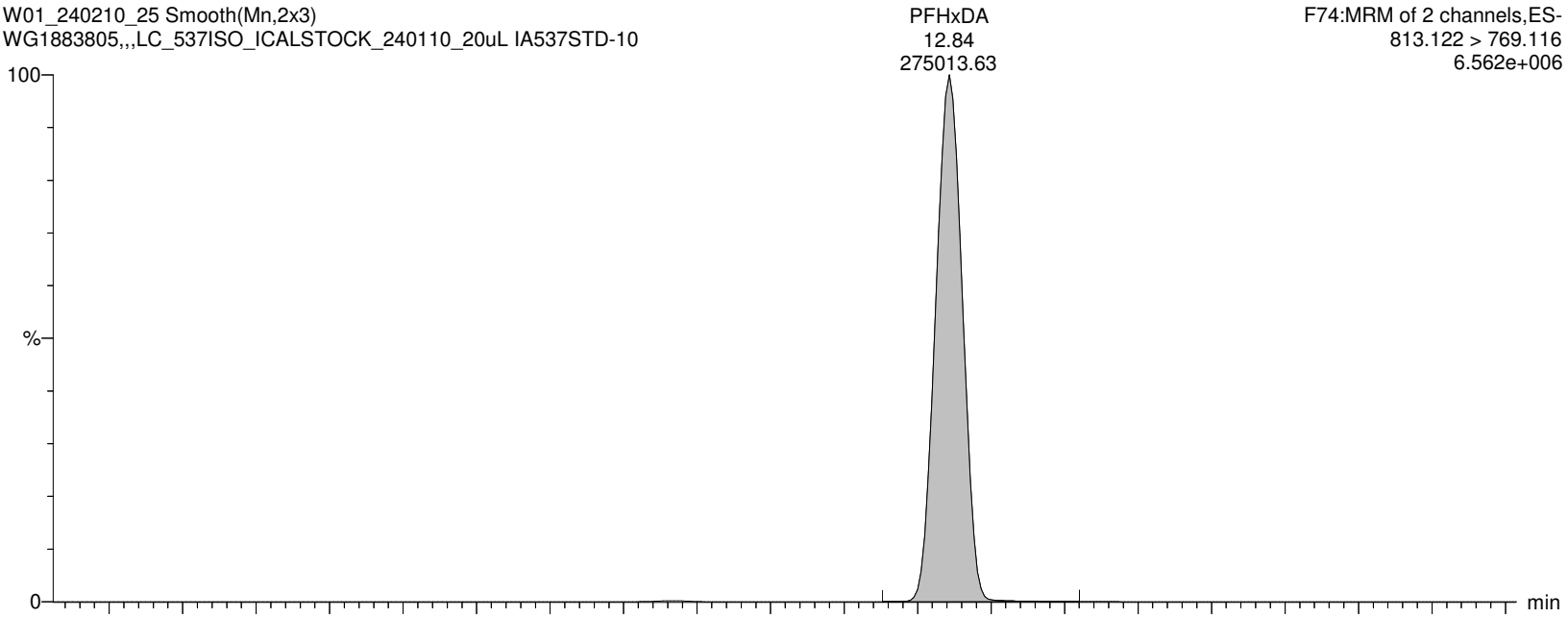
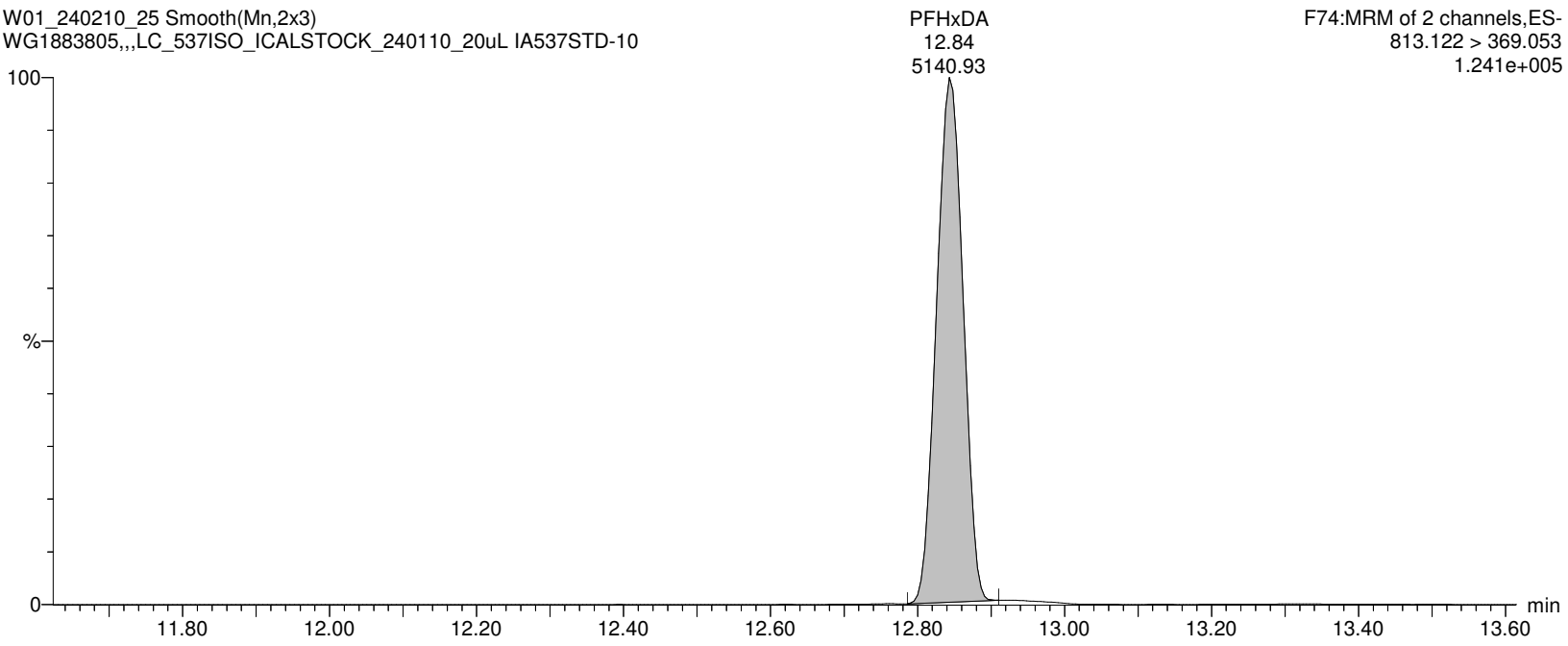
PFHxDA





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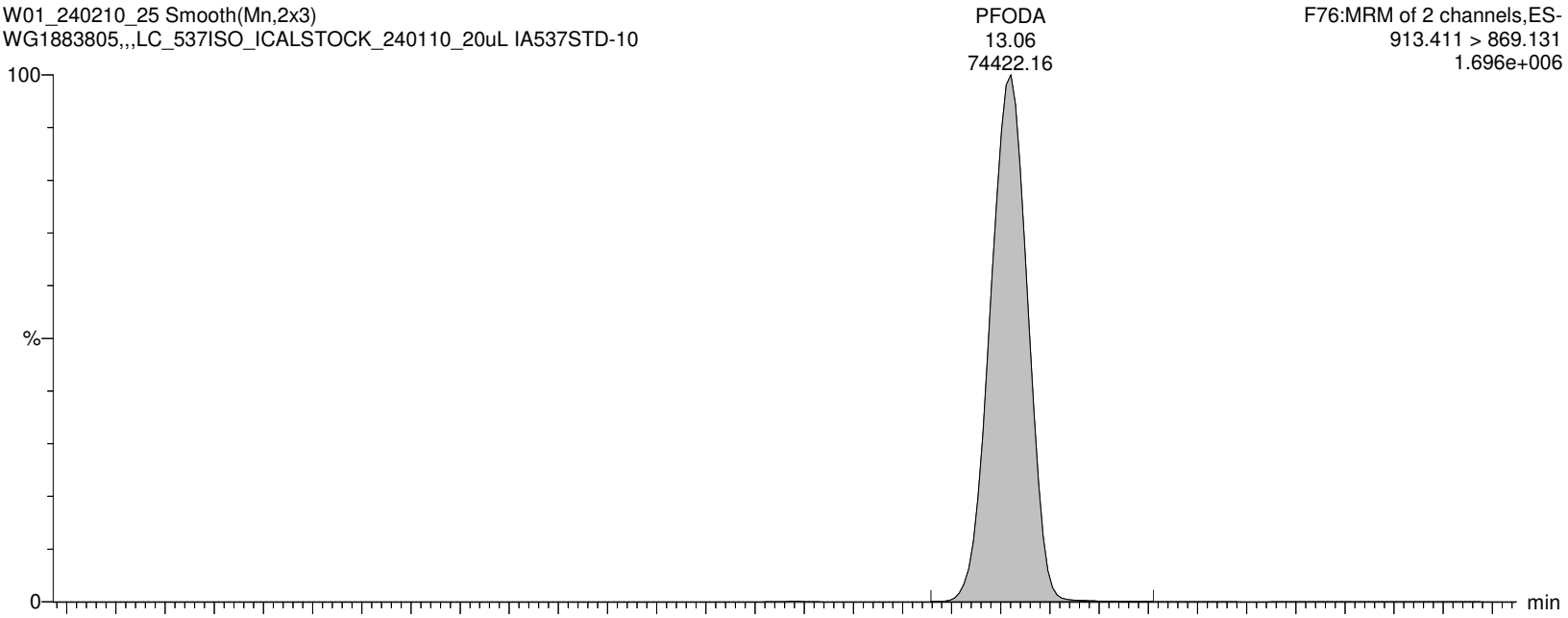

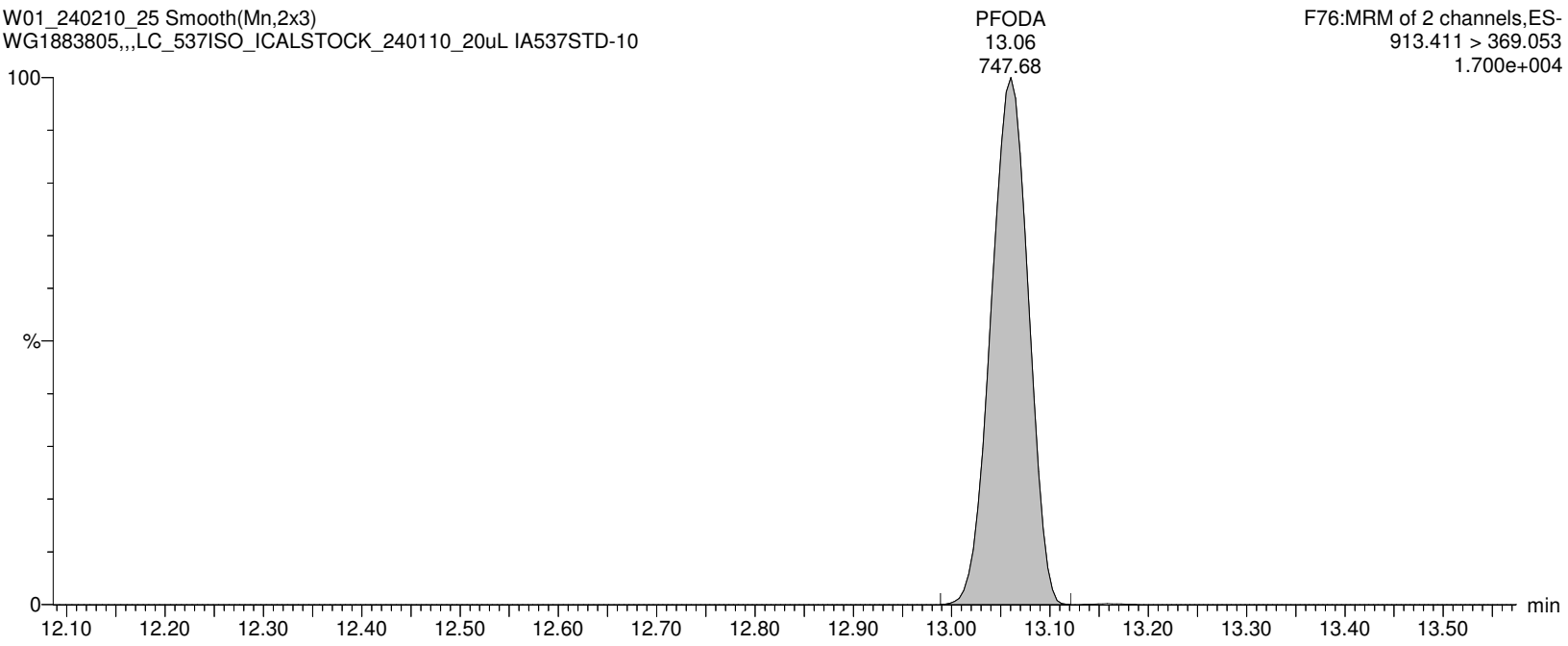

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

Name: W01_240210_25
ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
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User: LCMS01:SG
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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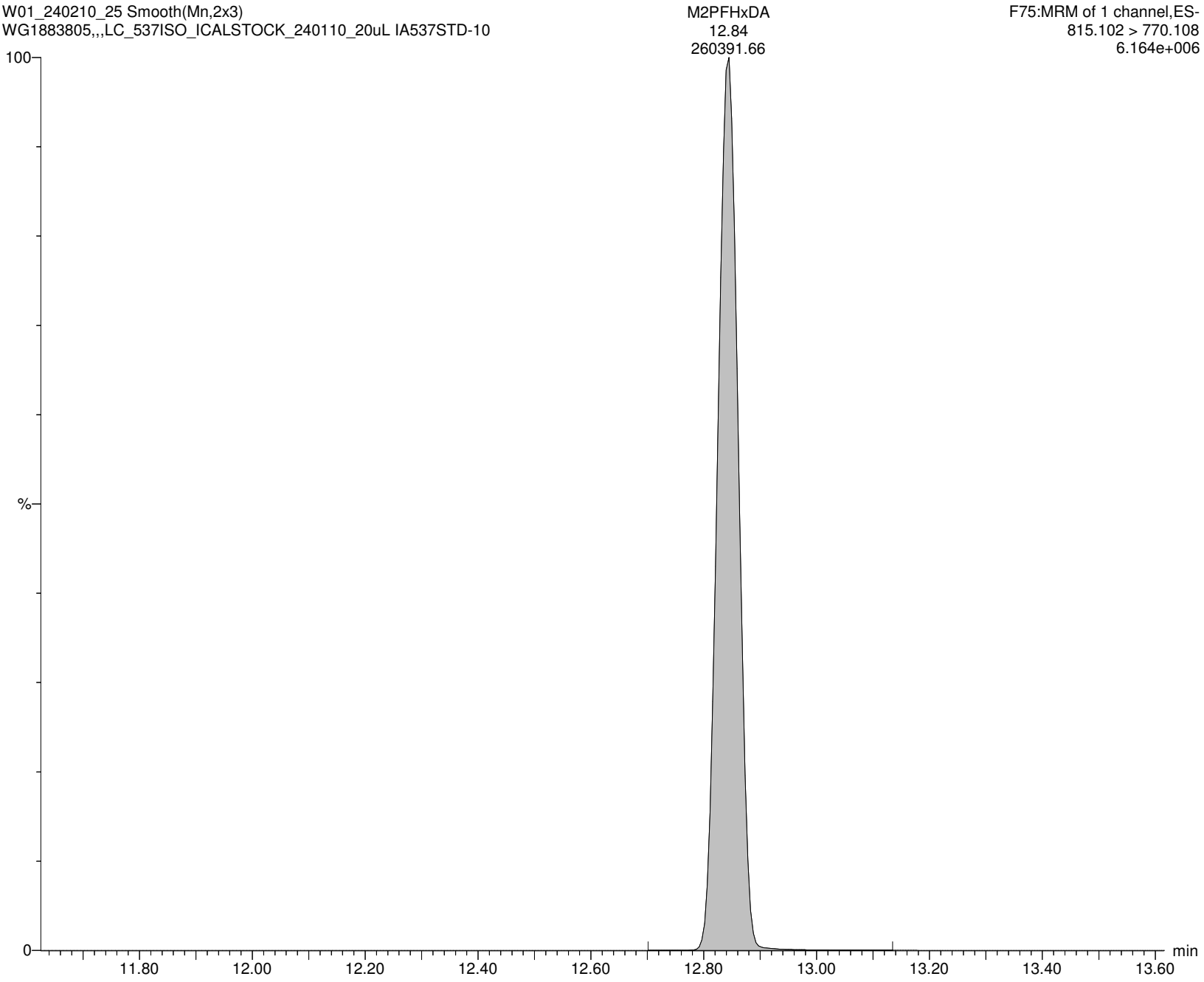

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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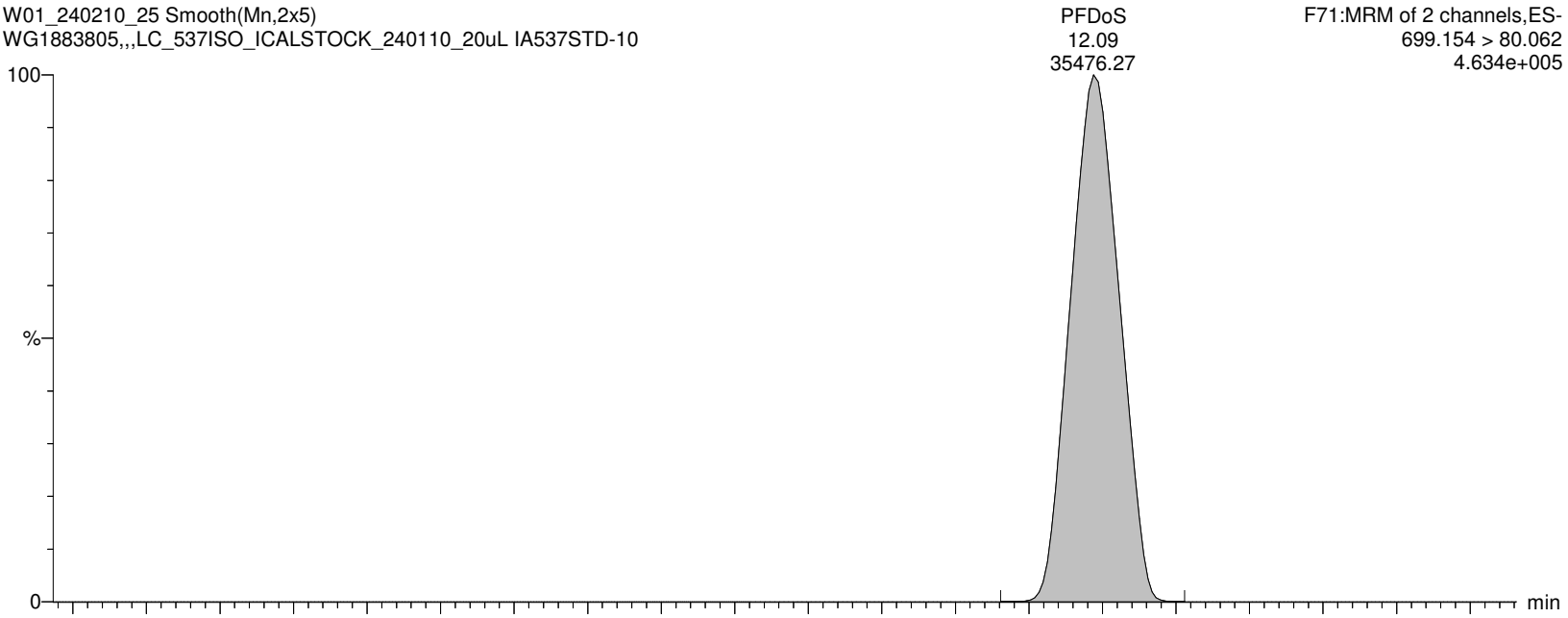
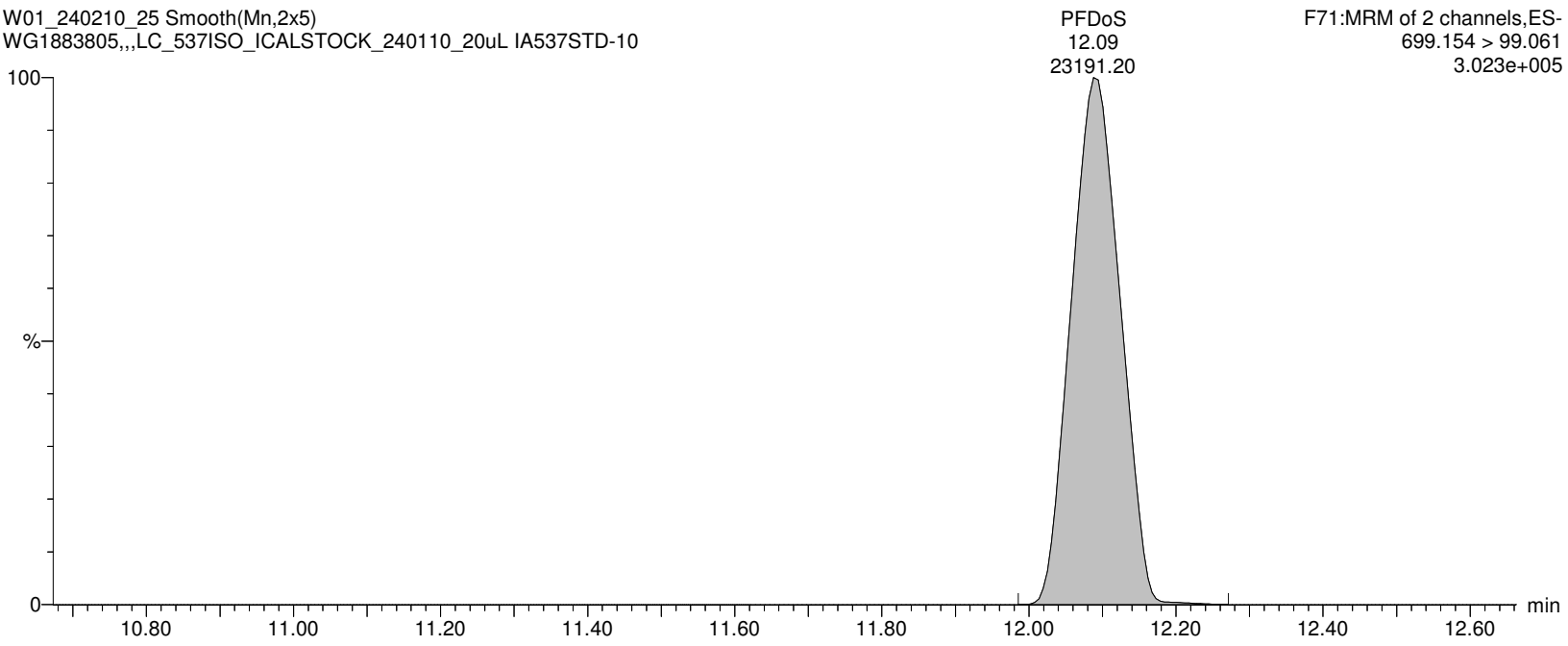
PFDoS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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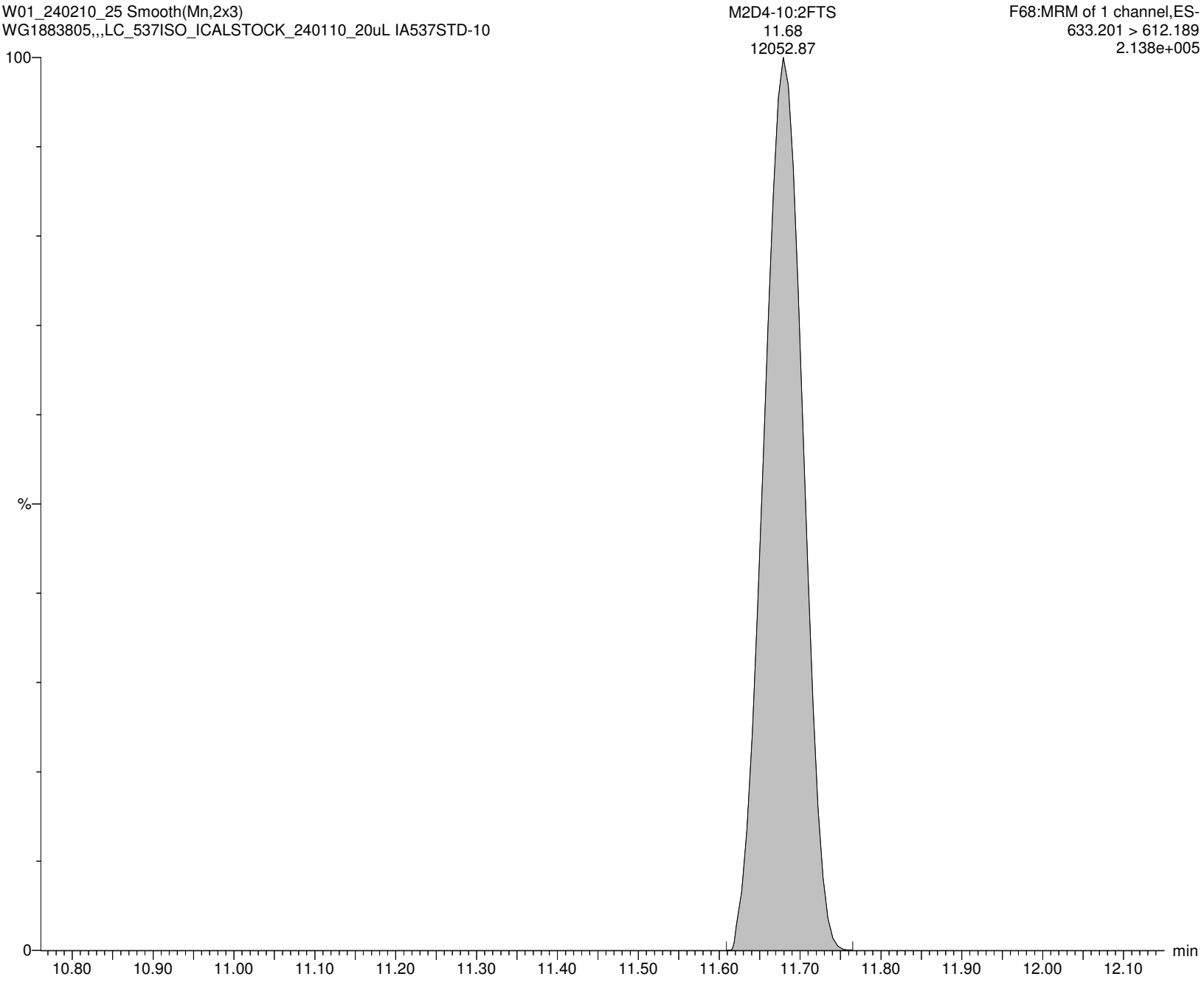

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Vial: 1:B,5
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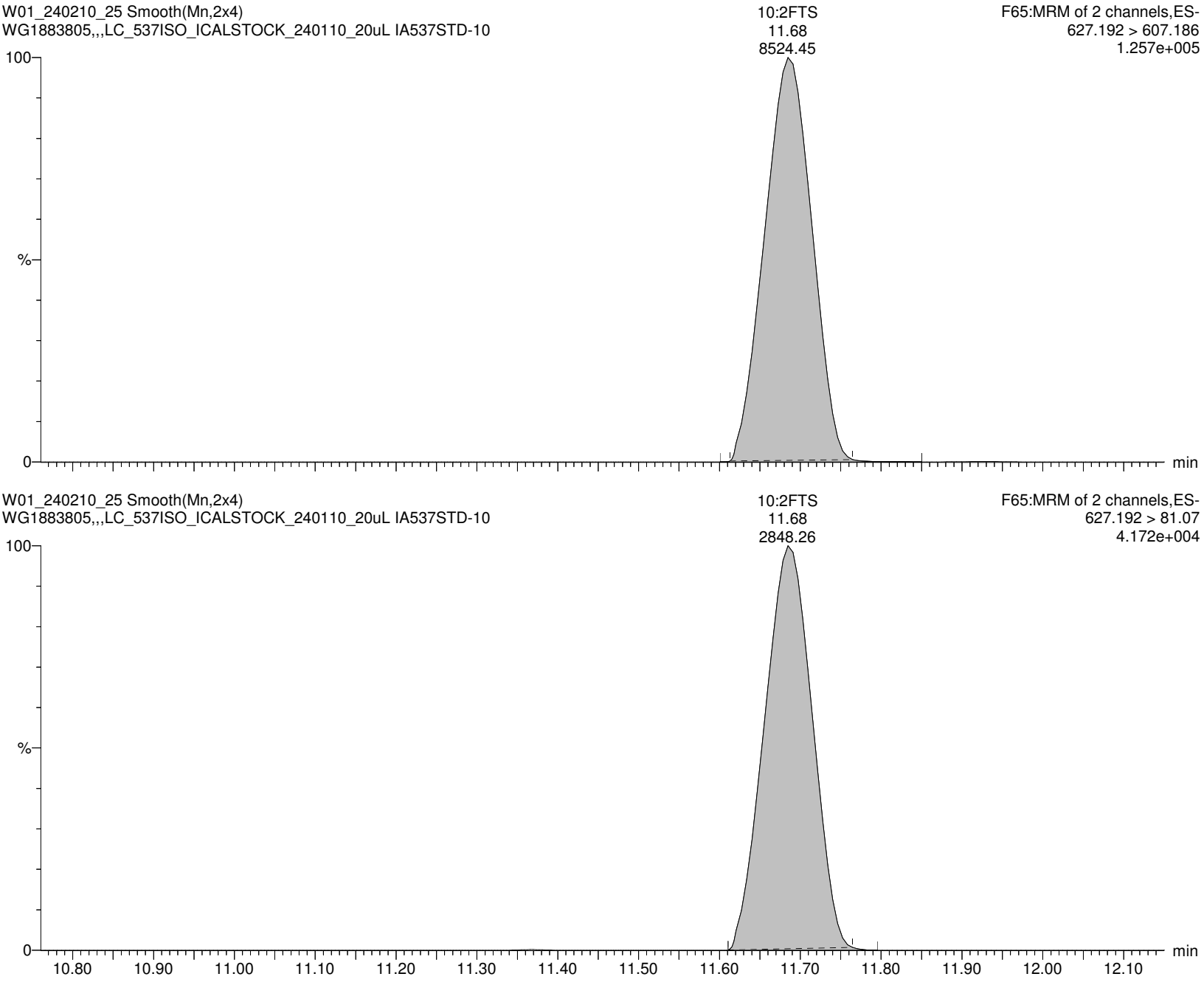
10:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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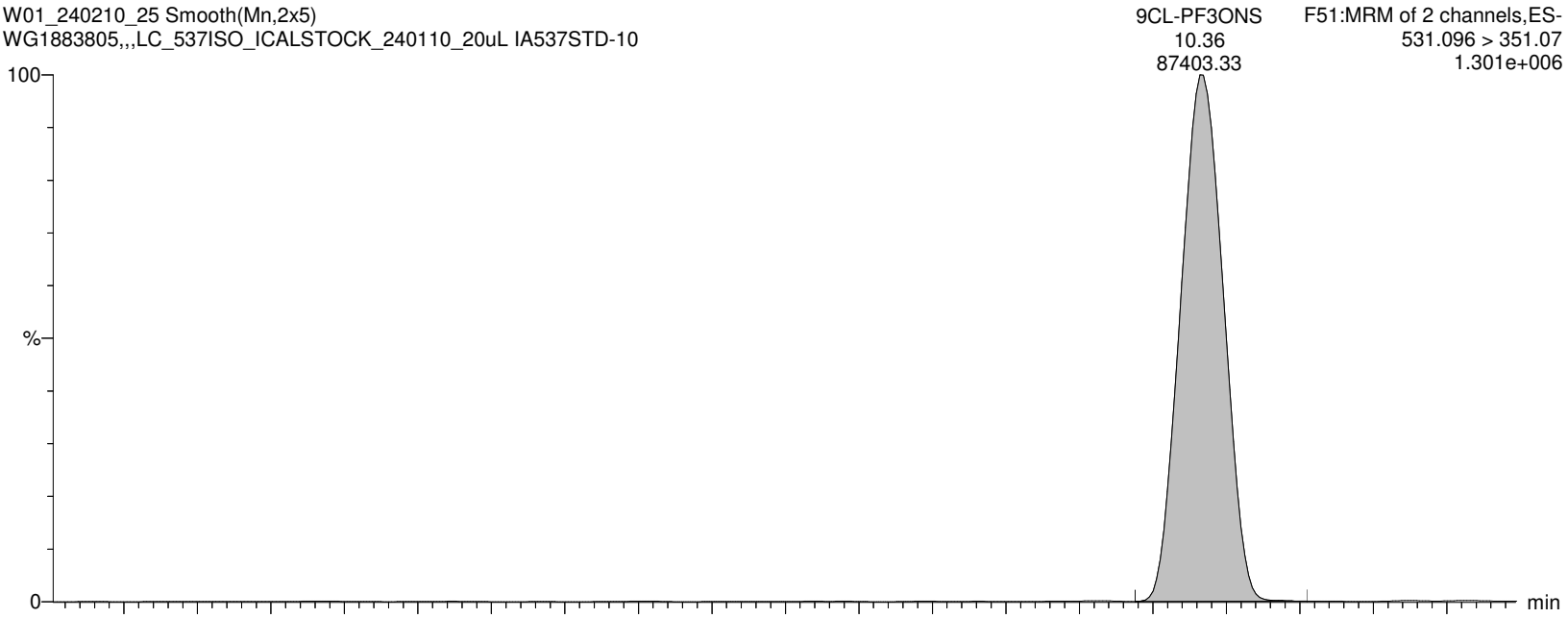
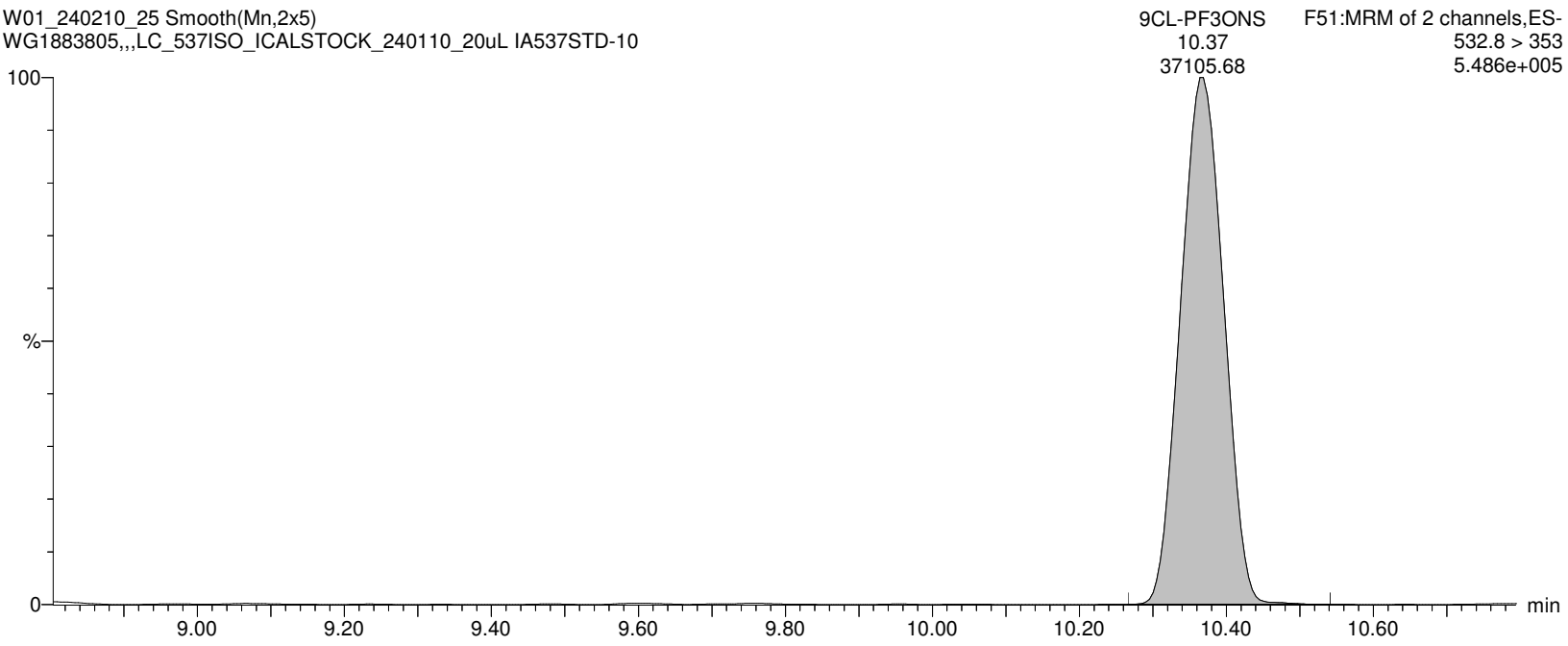
9CL-PF3ONS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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Vial: 1:B,5
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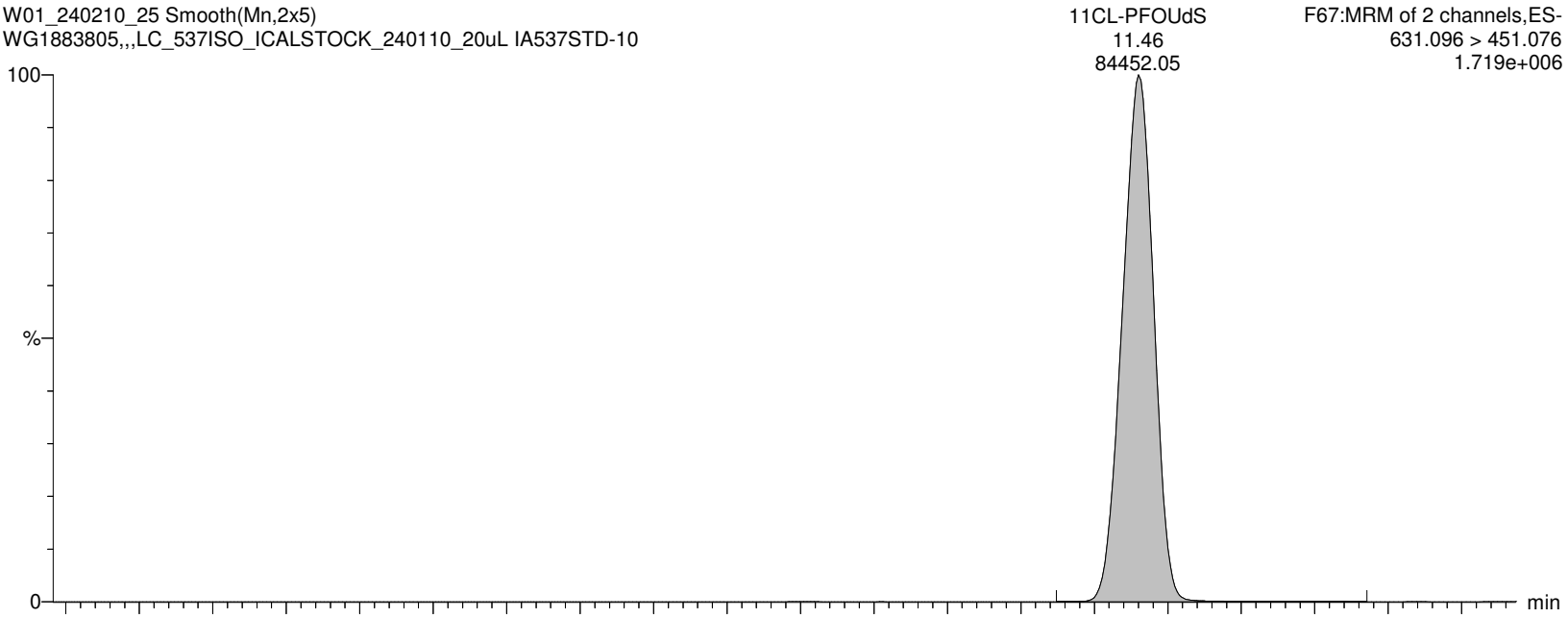
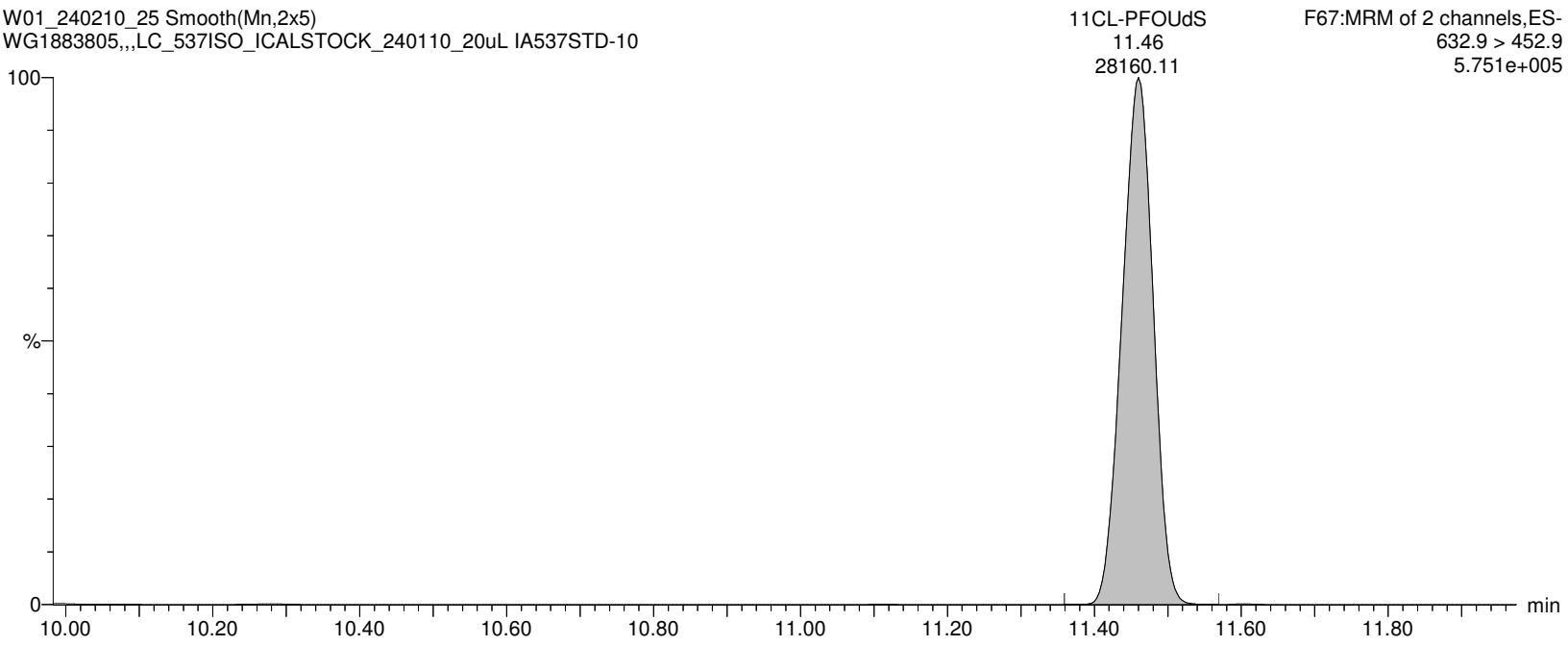
11CL-PFOUdS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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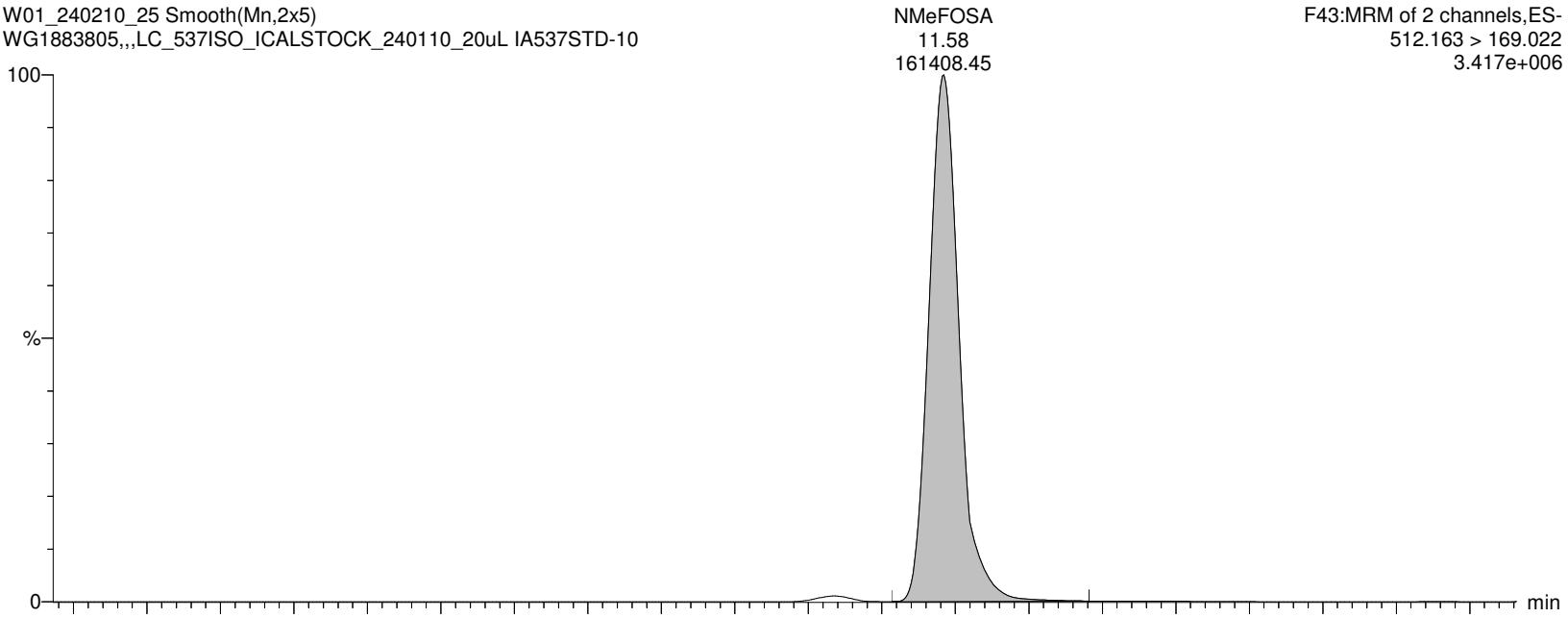

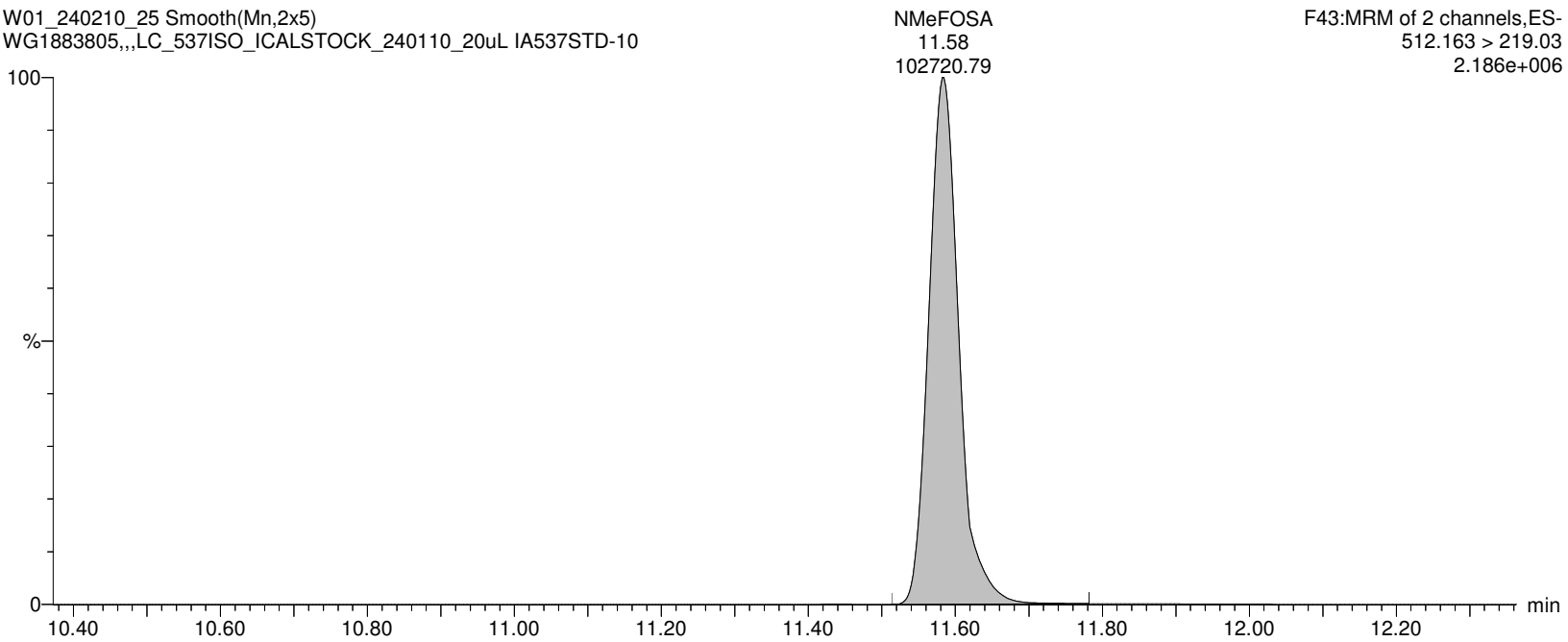

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Date: 10-Feb-2024
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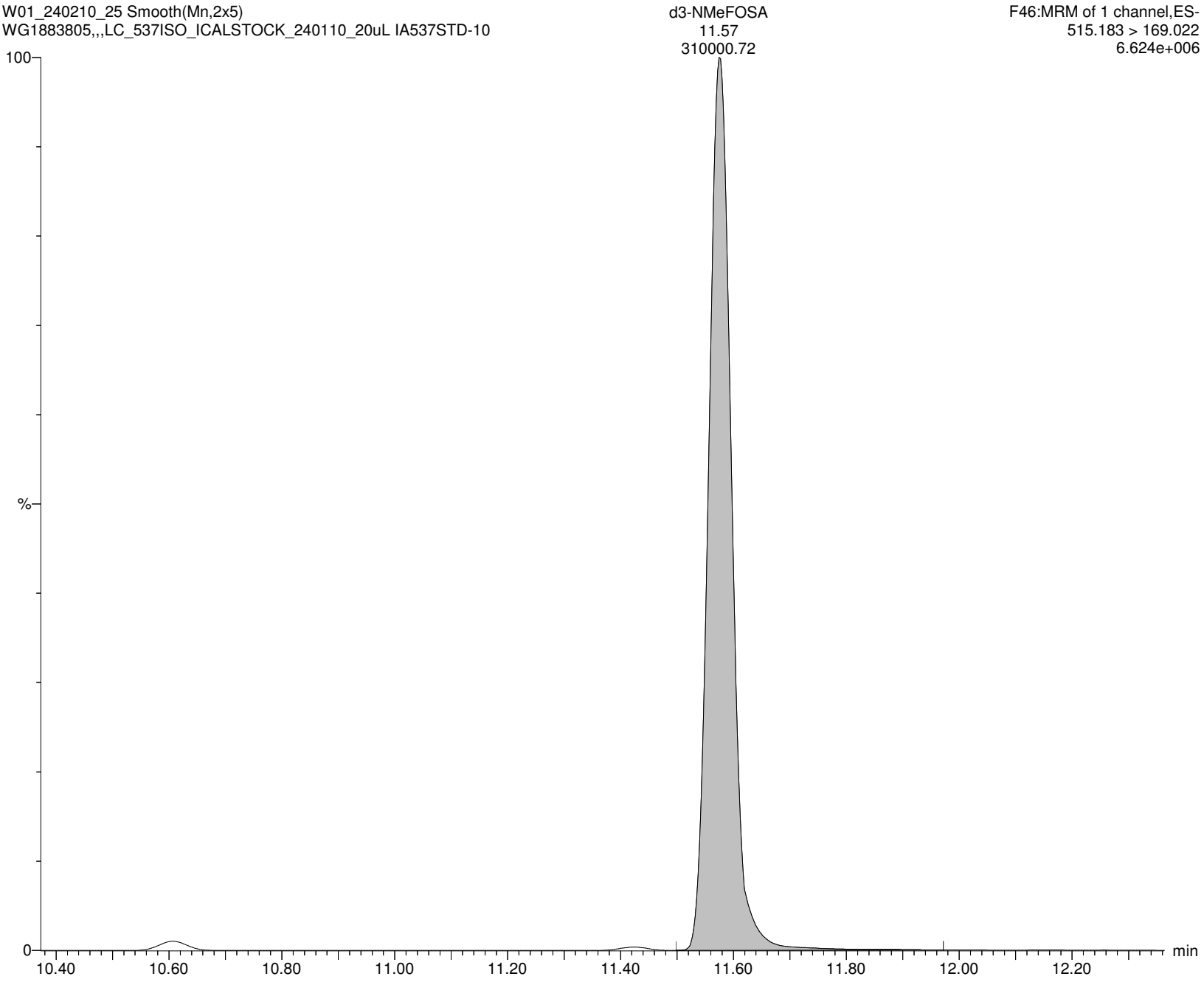

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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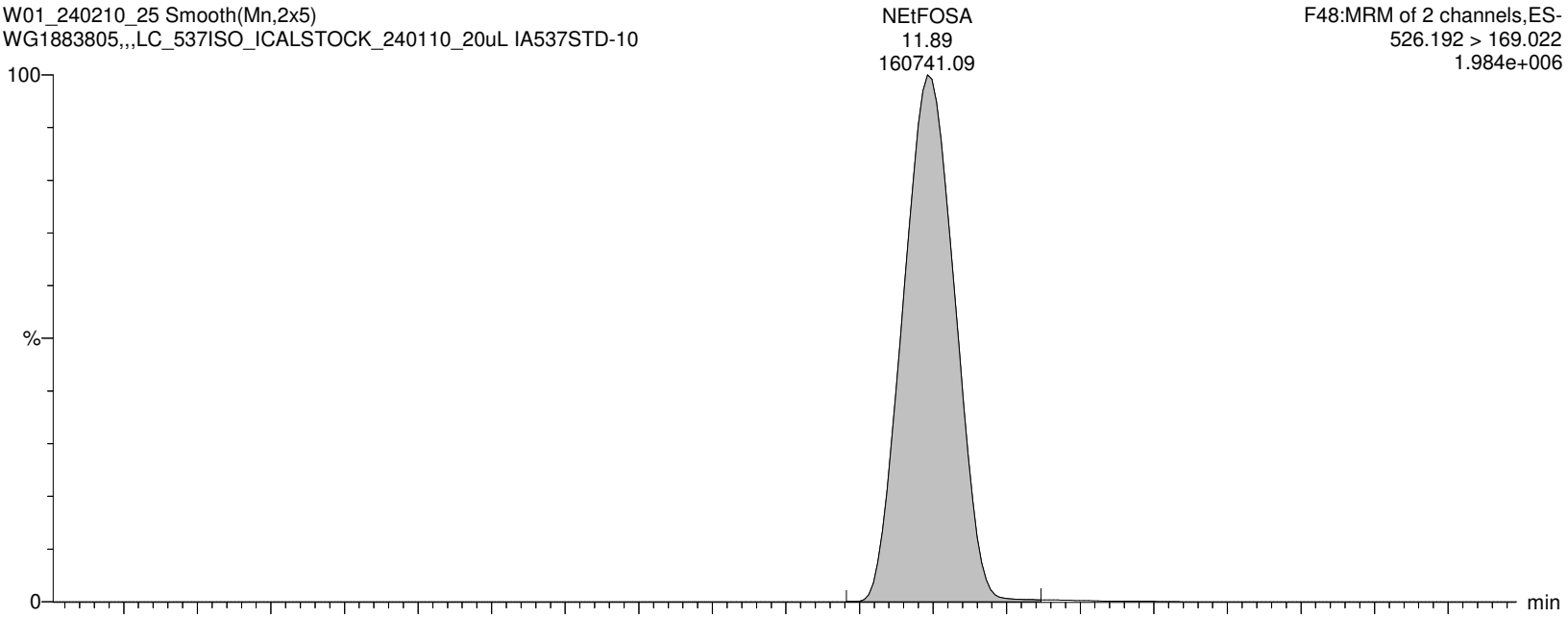

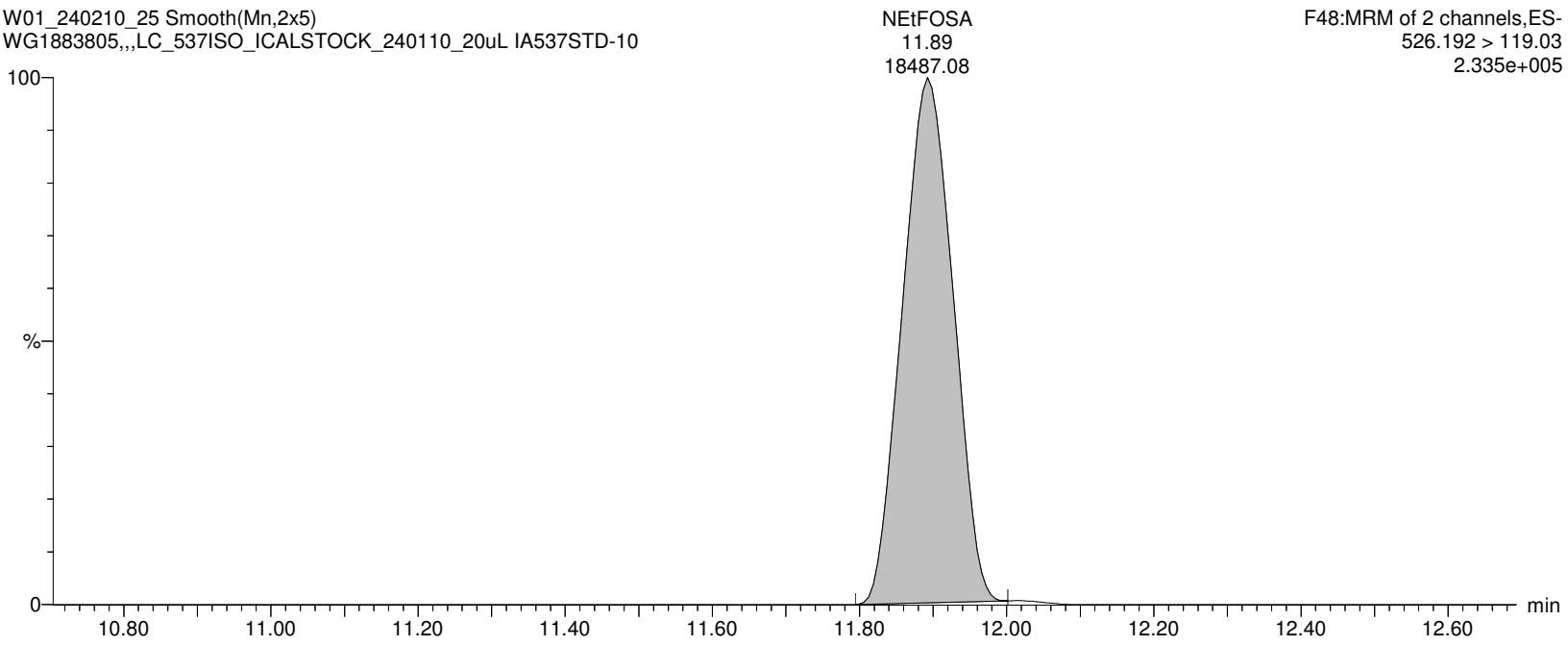

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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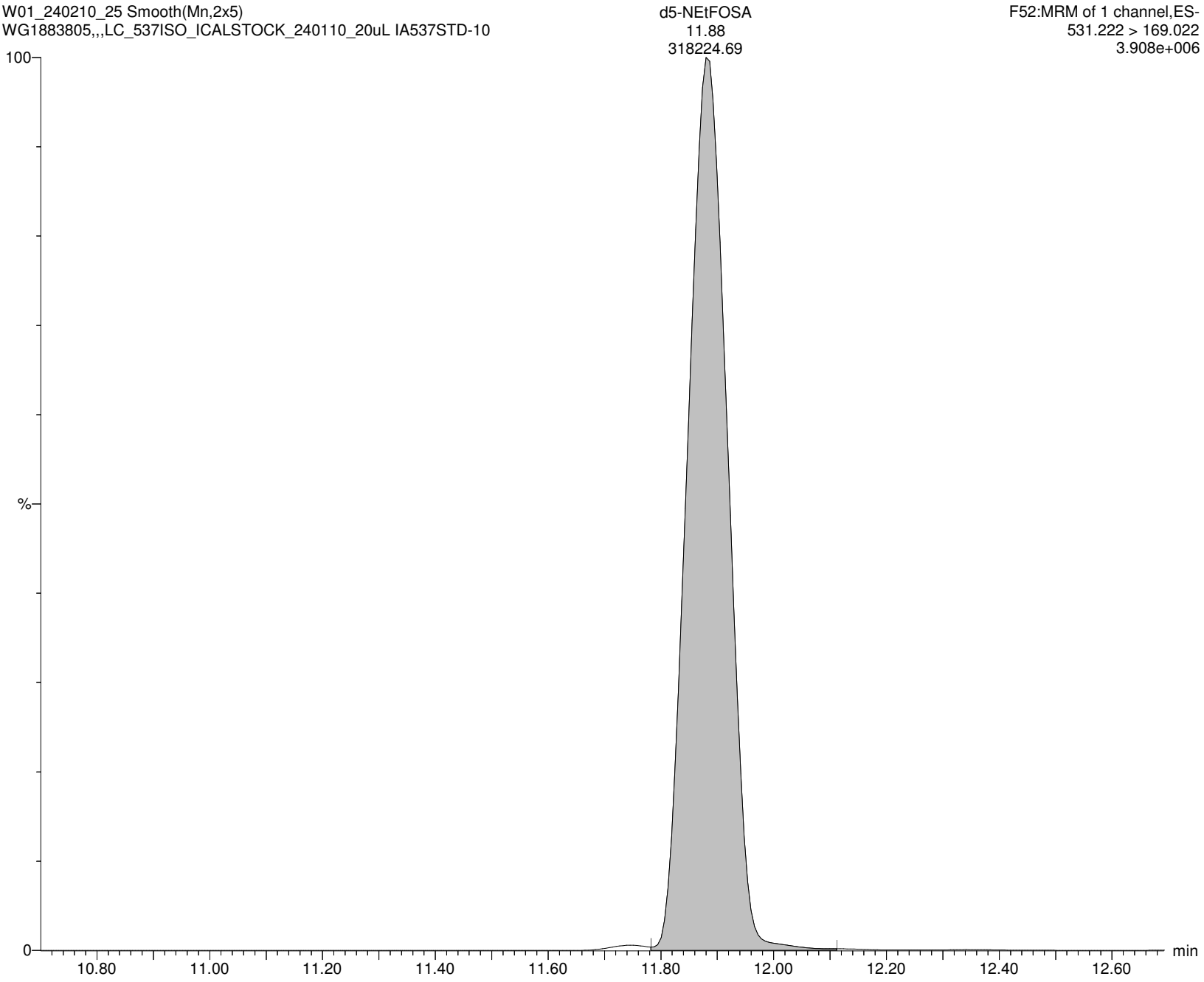
d5-NEtFOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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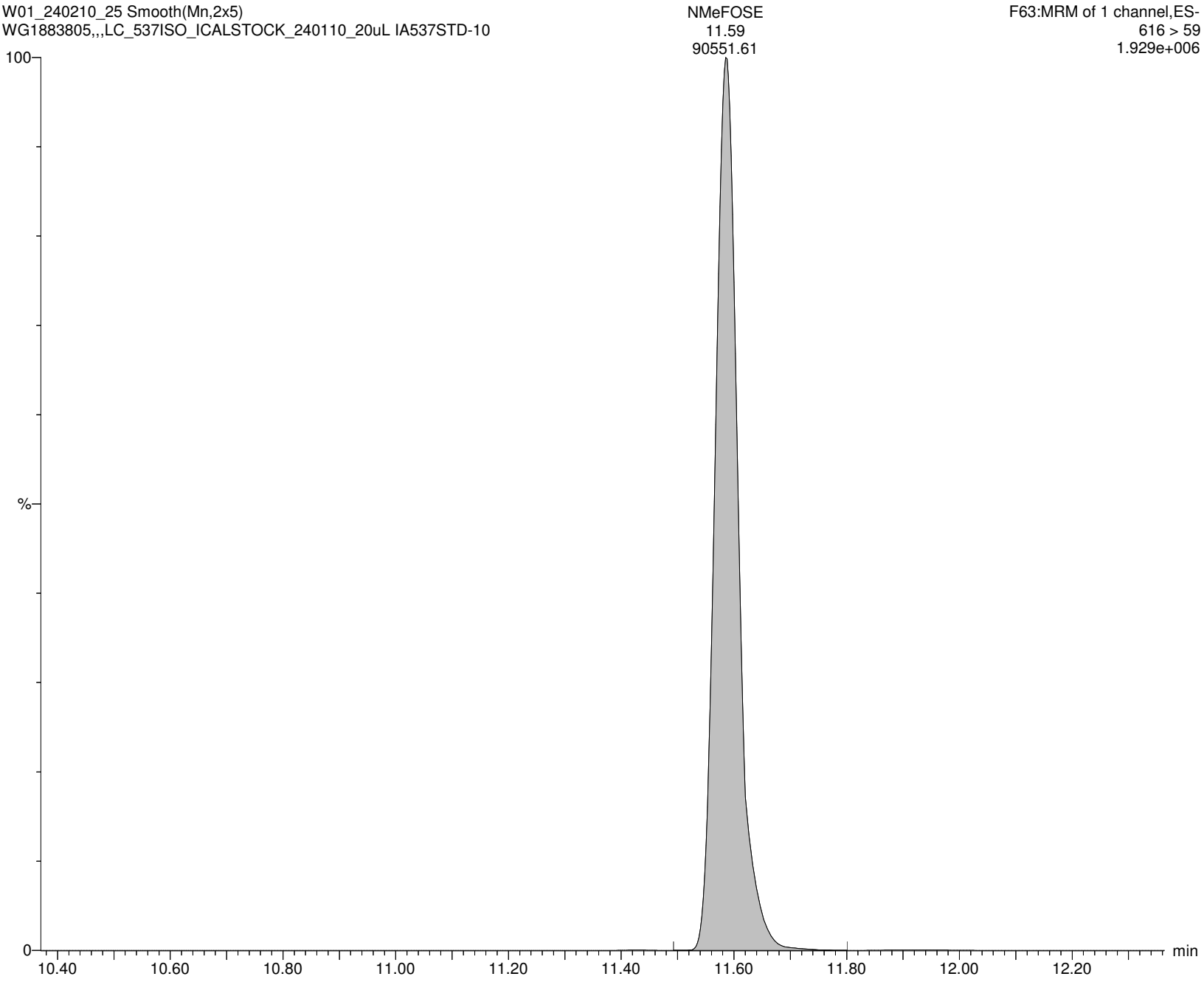
NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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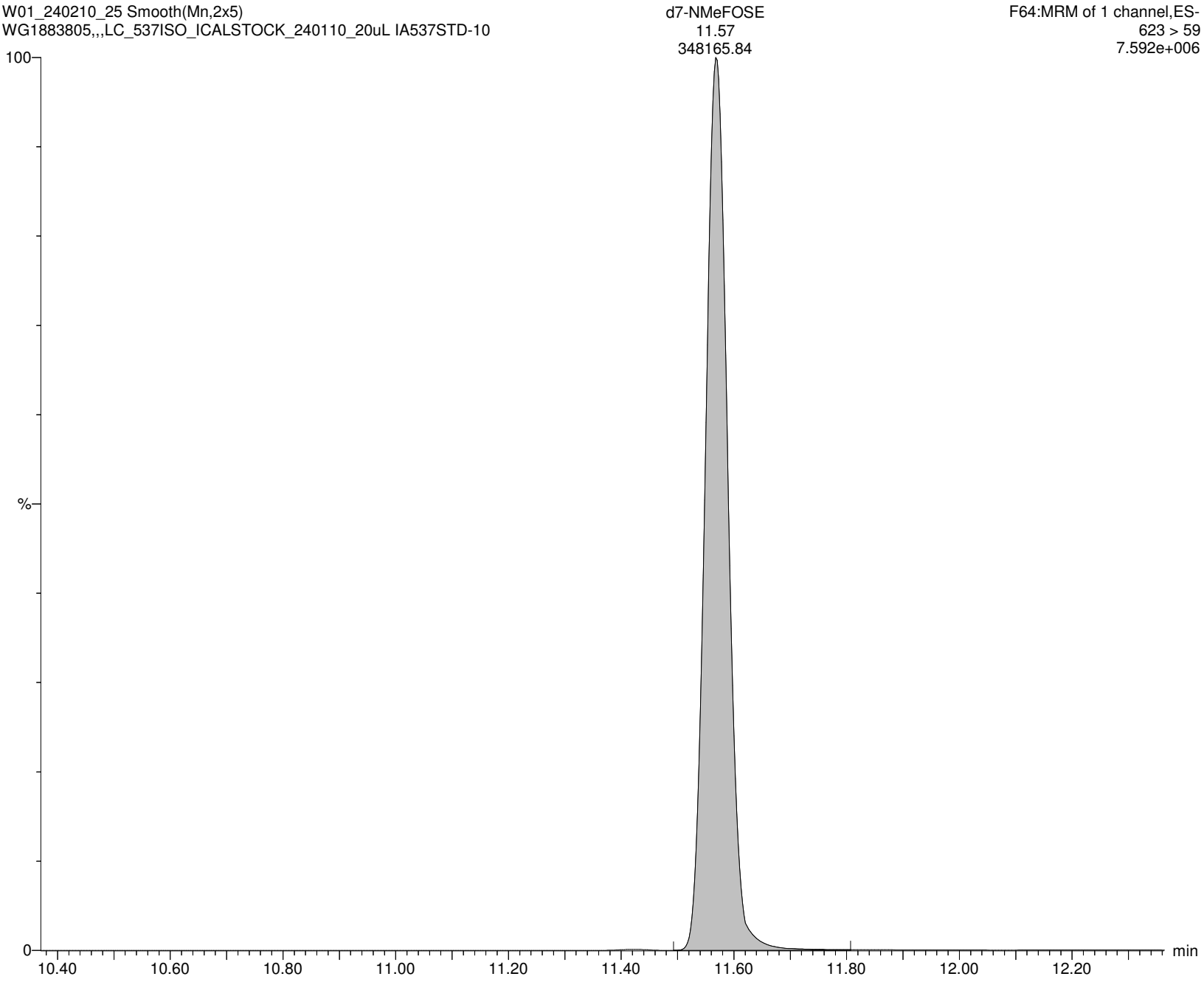
d7-NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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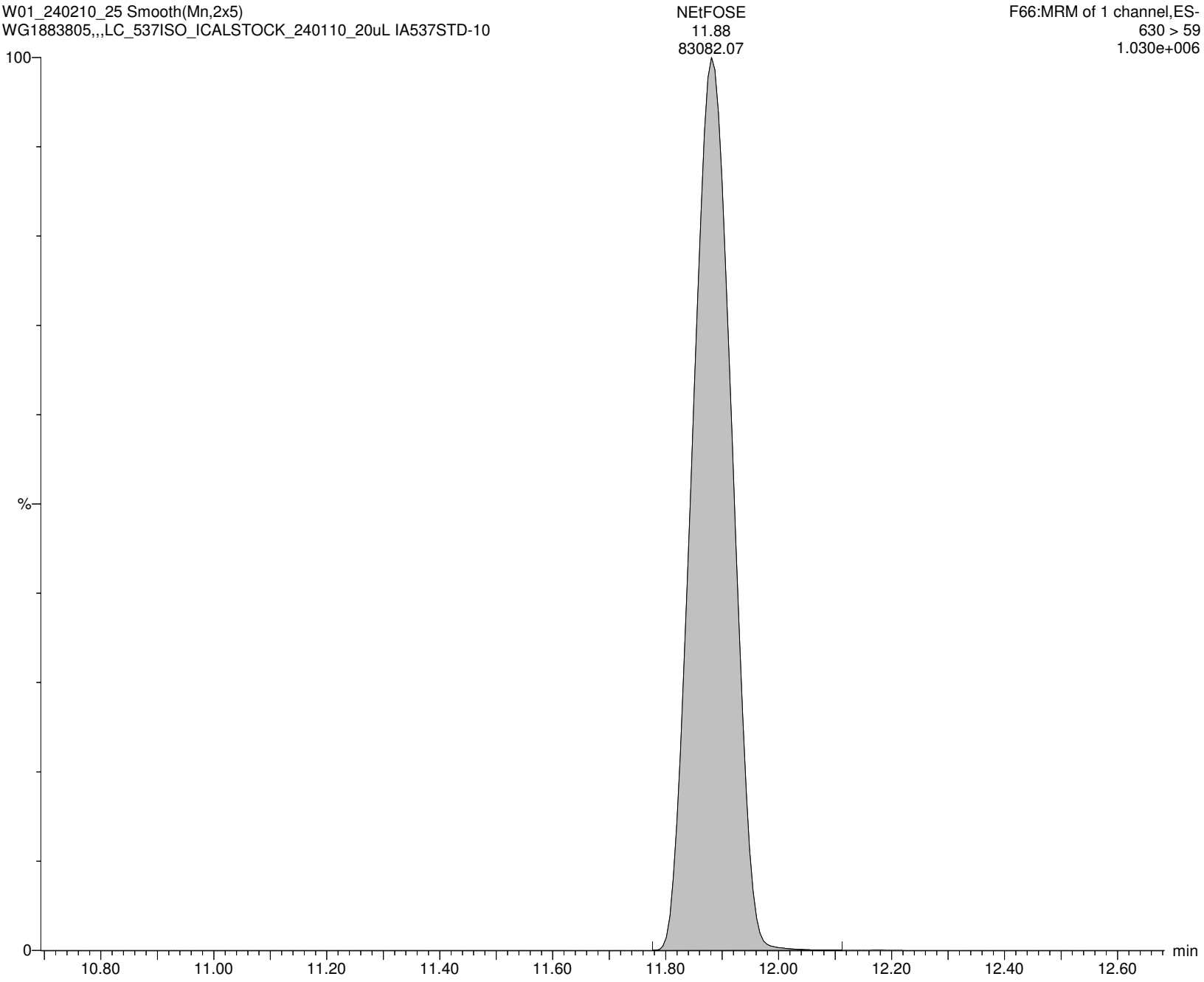
NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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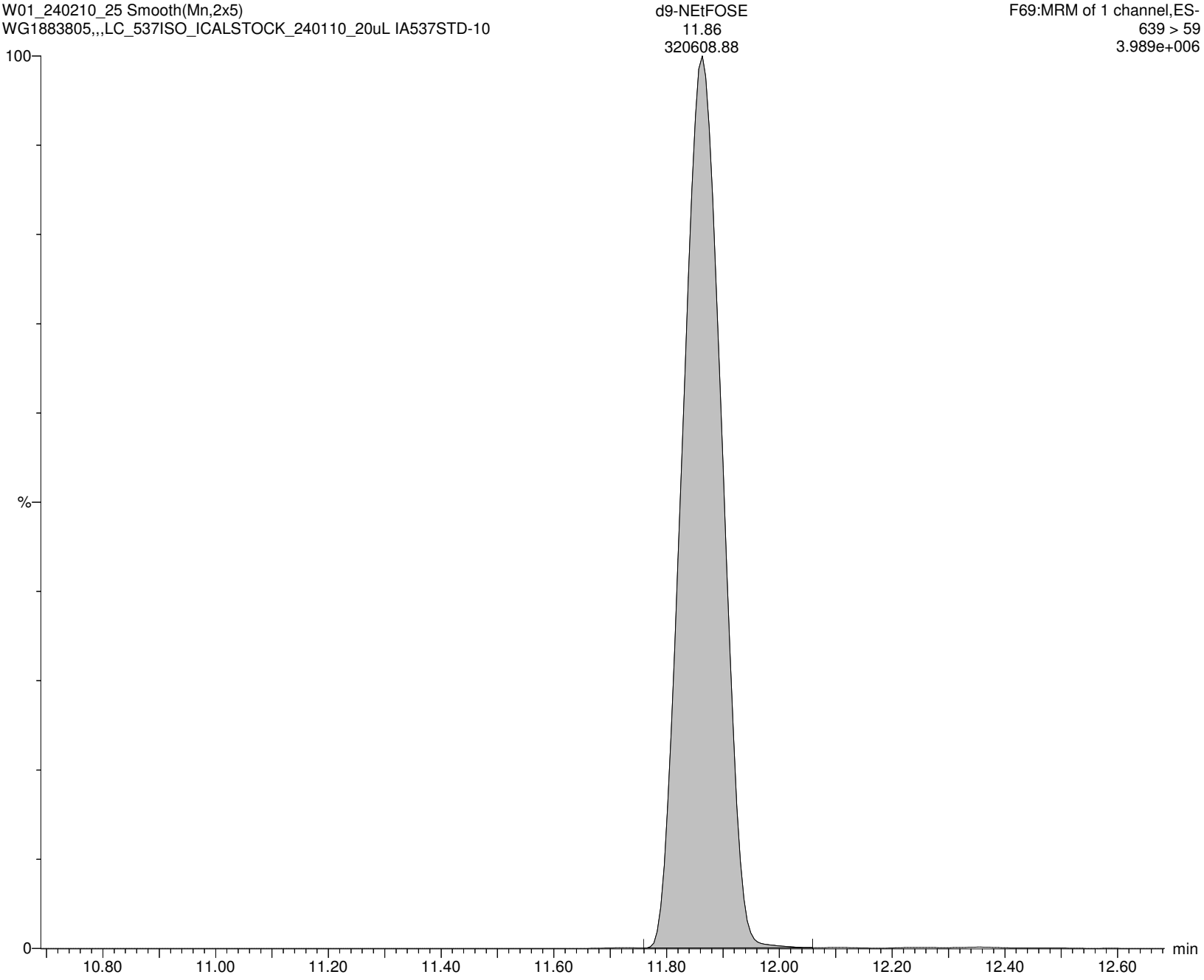
d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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User: LCMS01:SG
Vial: 1:B,5
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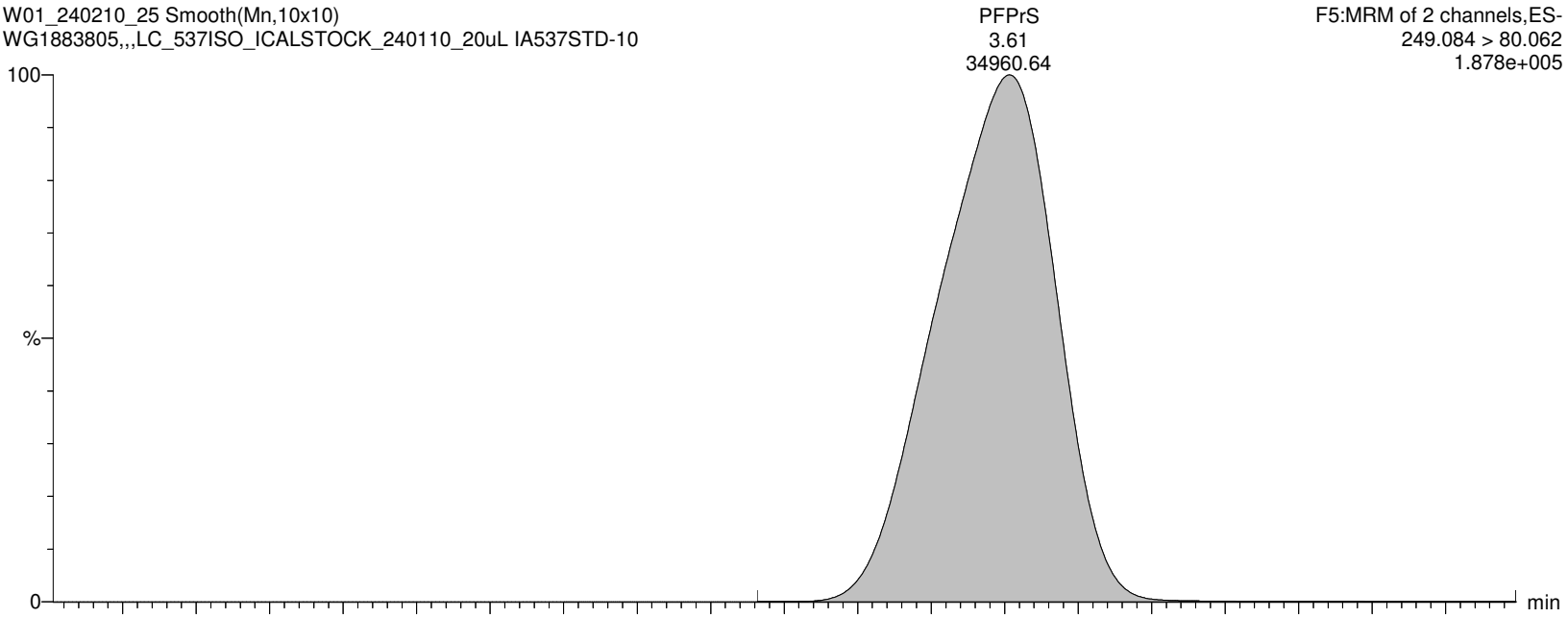
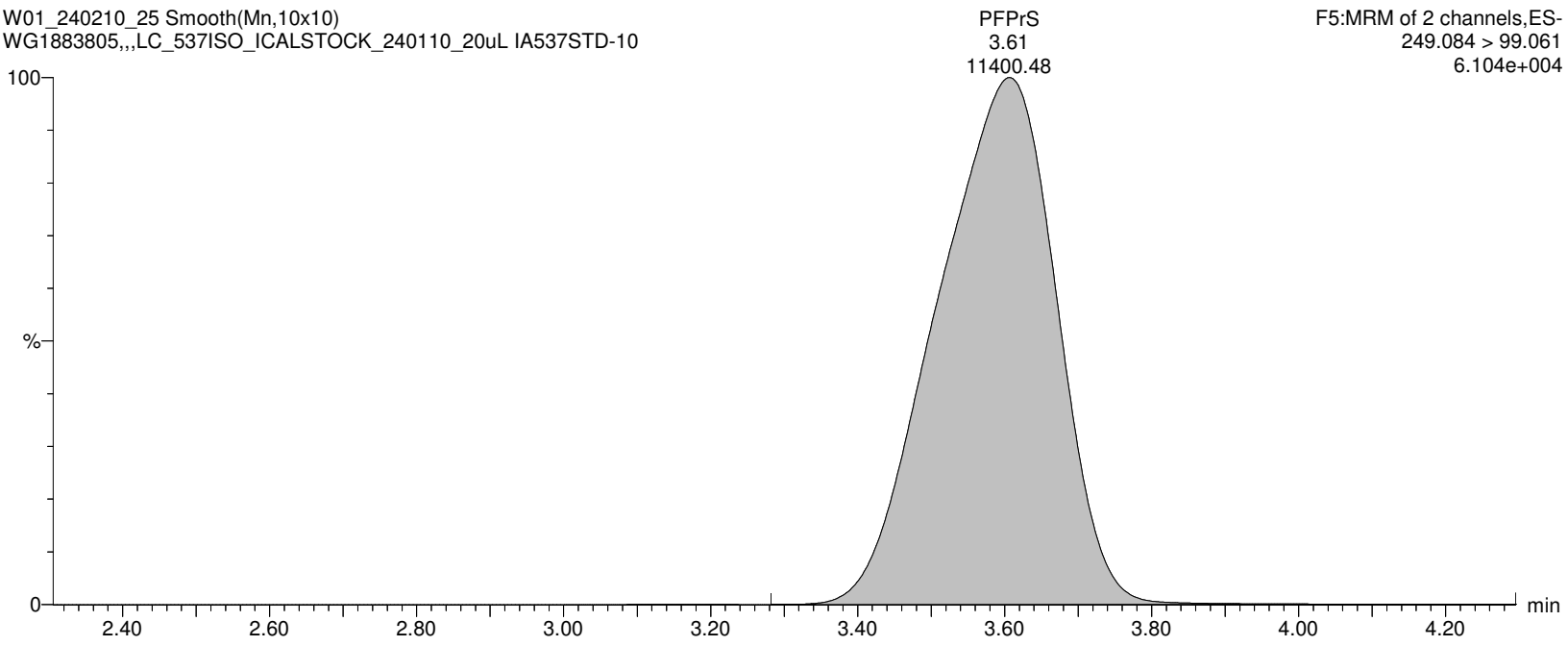
PFPrS



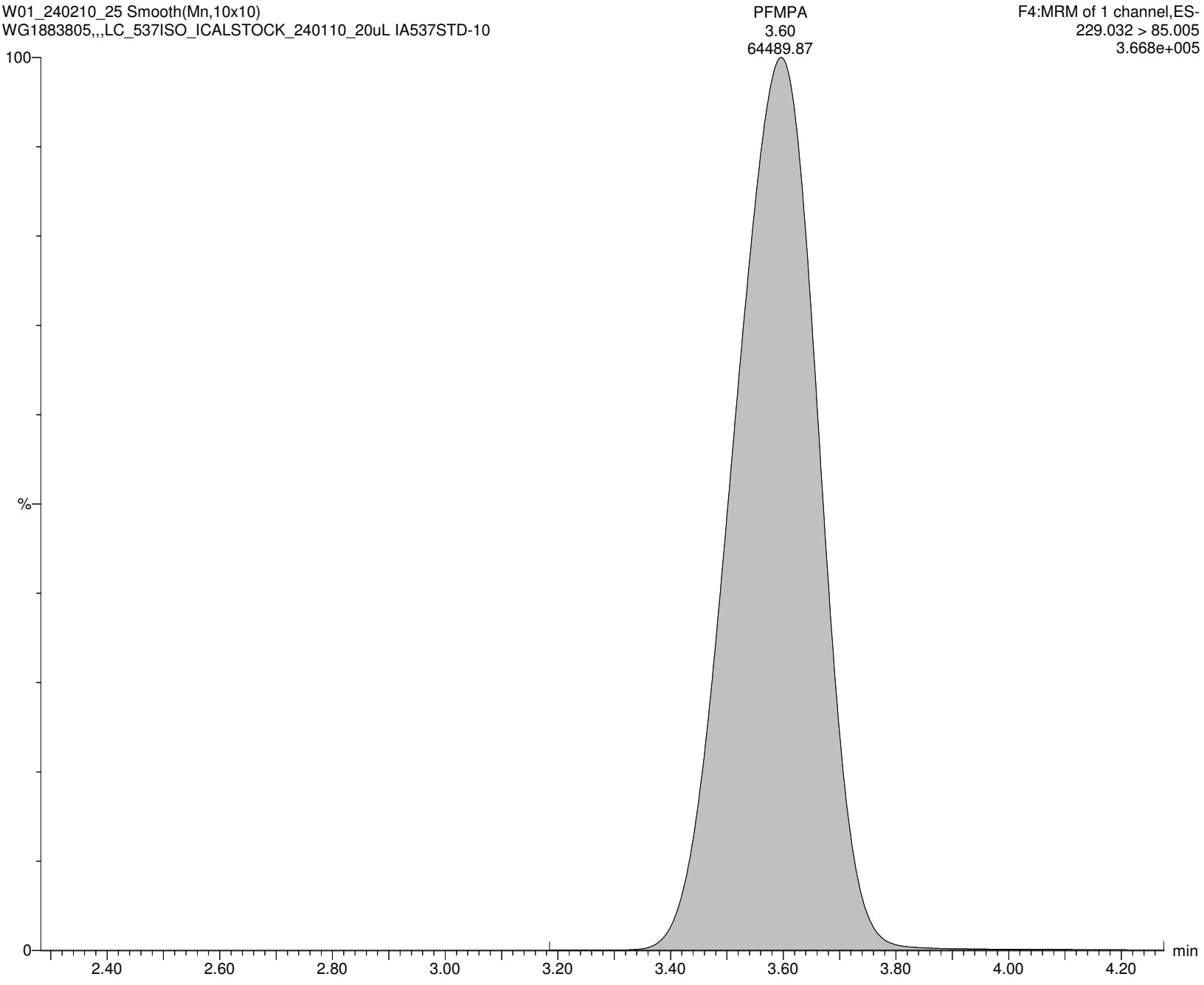


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:17 Eastern Standard Time

Name: W01_240210_25
ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_20uL
User: LCMS01:SG
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

PFMPA



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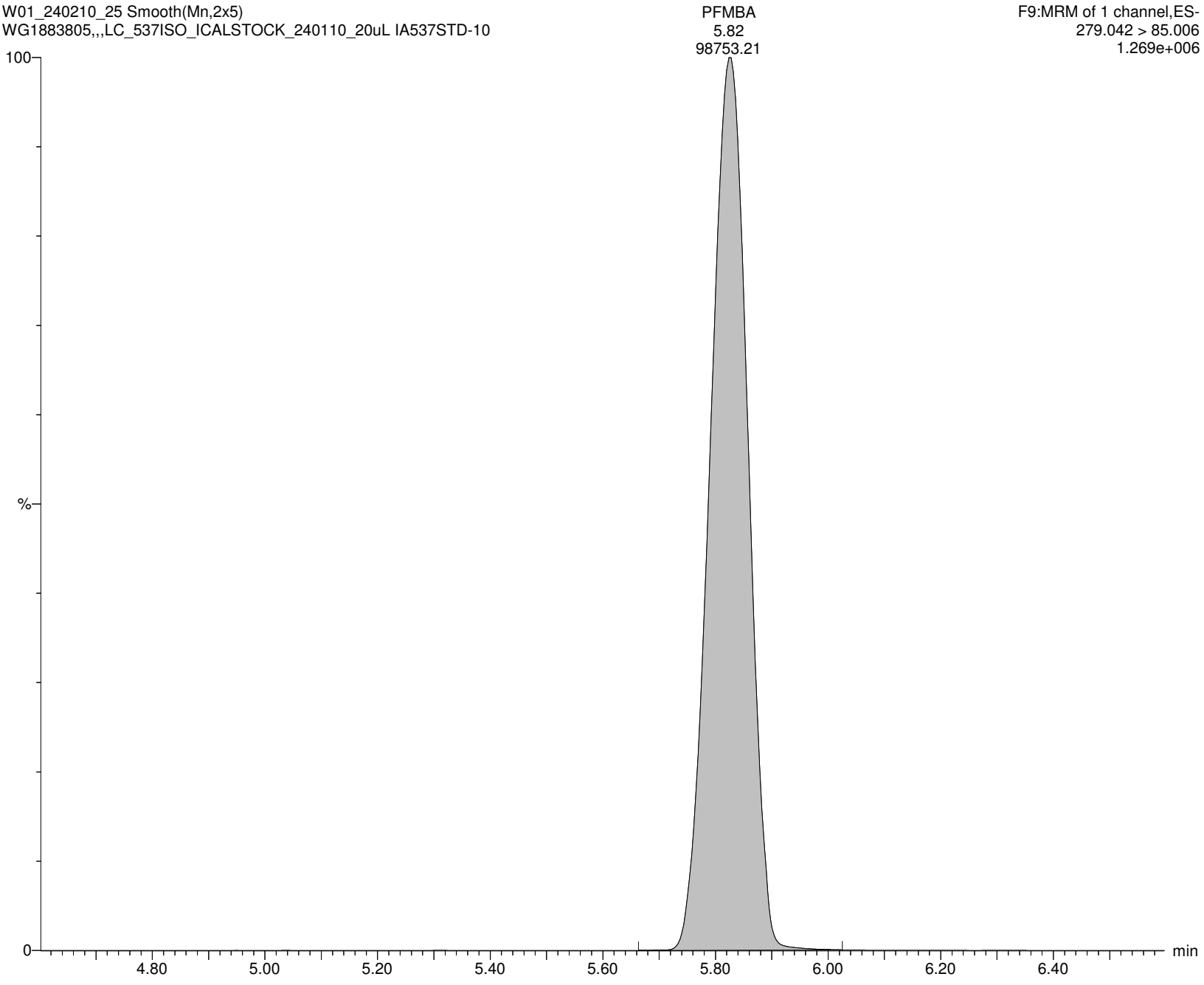
PFMBA



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Instrument: XEVO-TQSmicro#QEA0276
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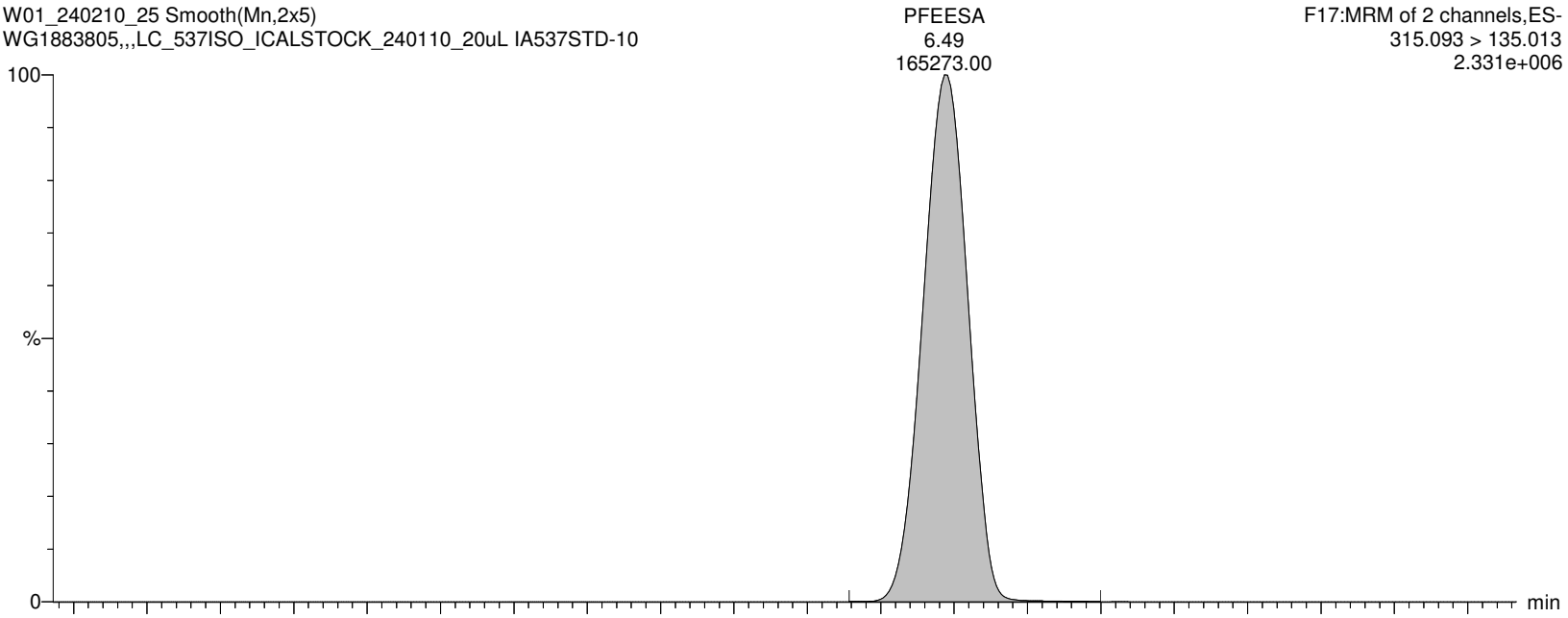
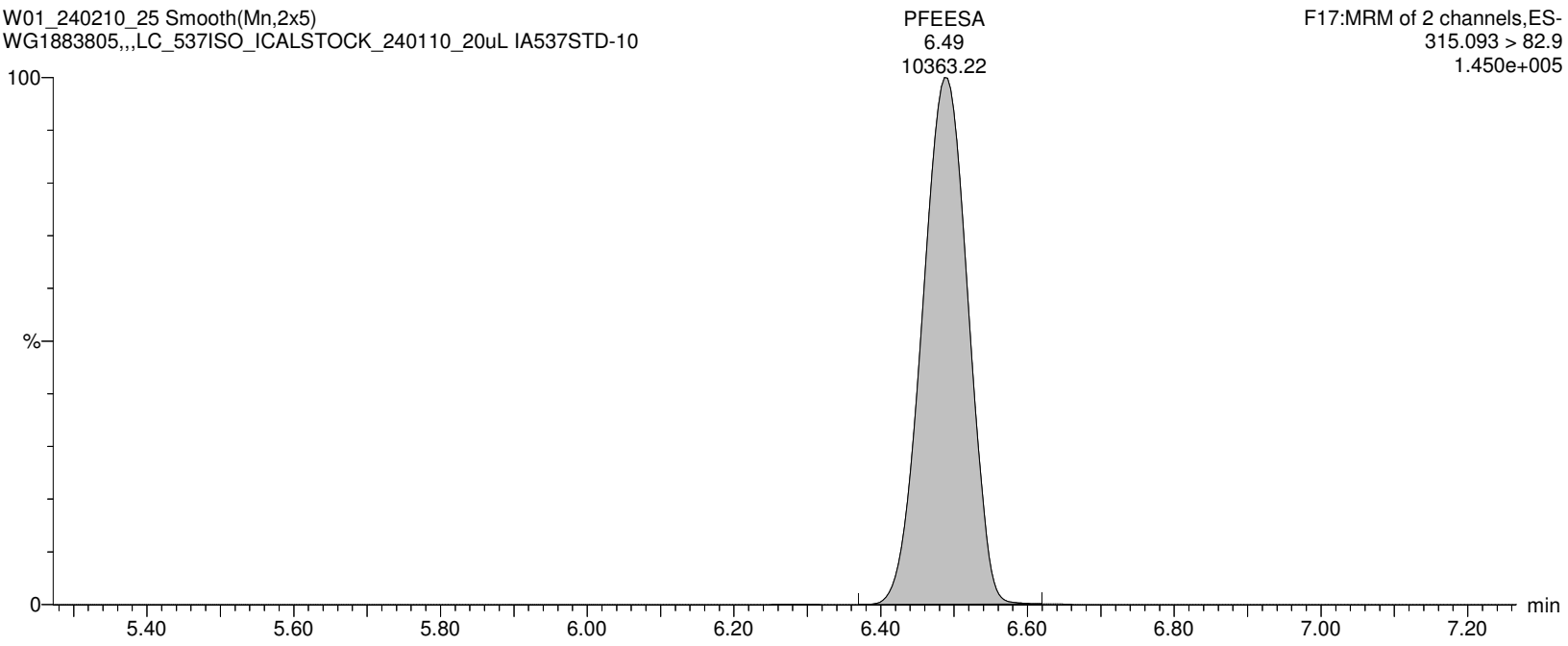
PFEESA





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Vial: 1:B,5
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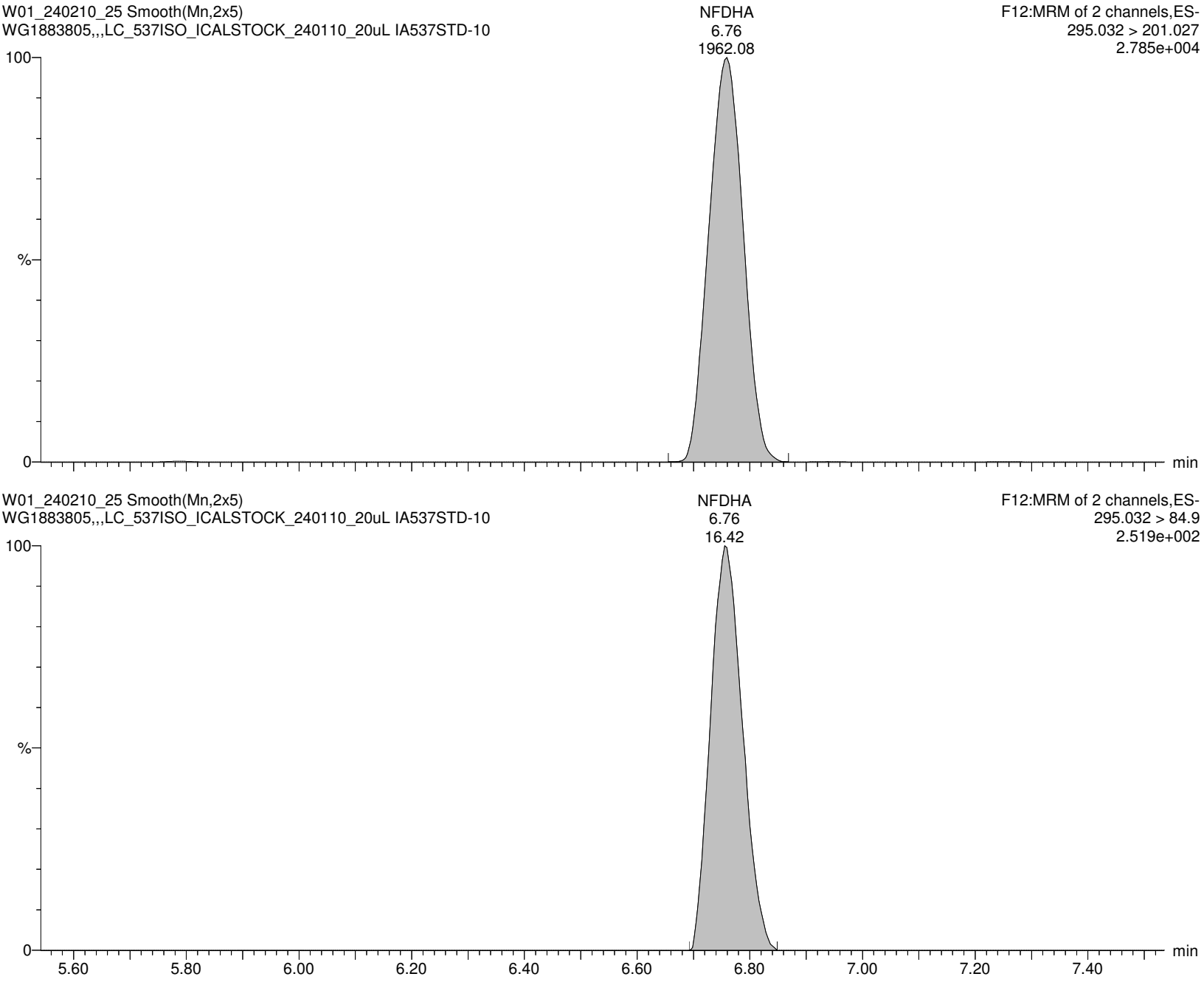
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

NFDHA



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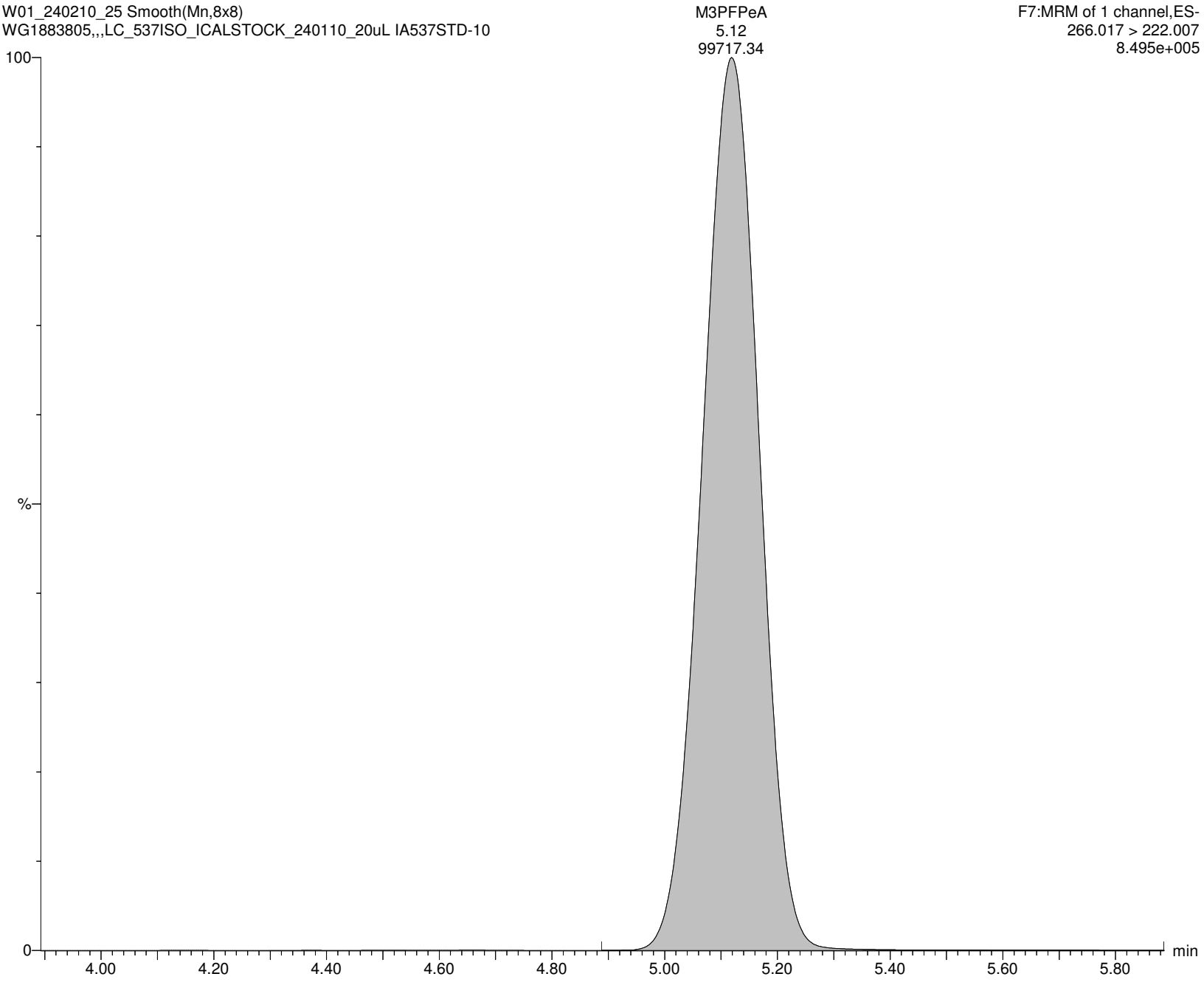
M3PFPeA



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User: LCMS01:SG
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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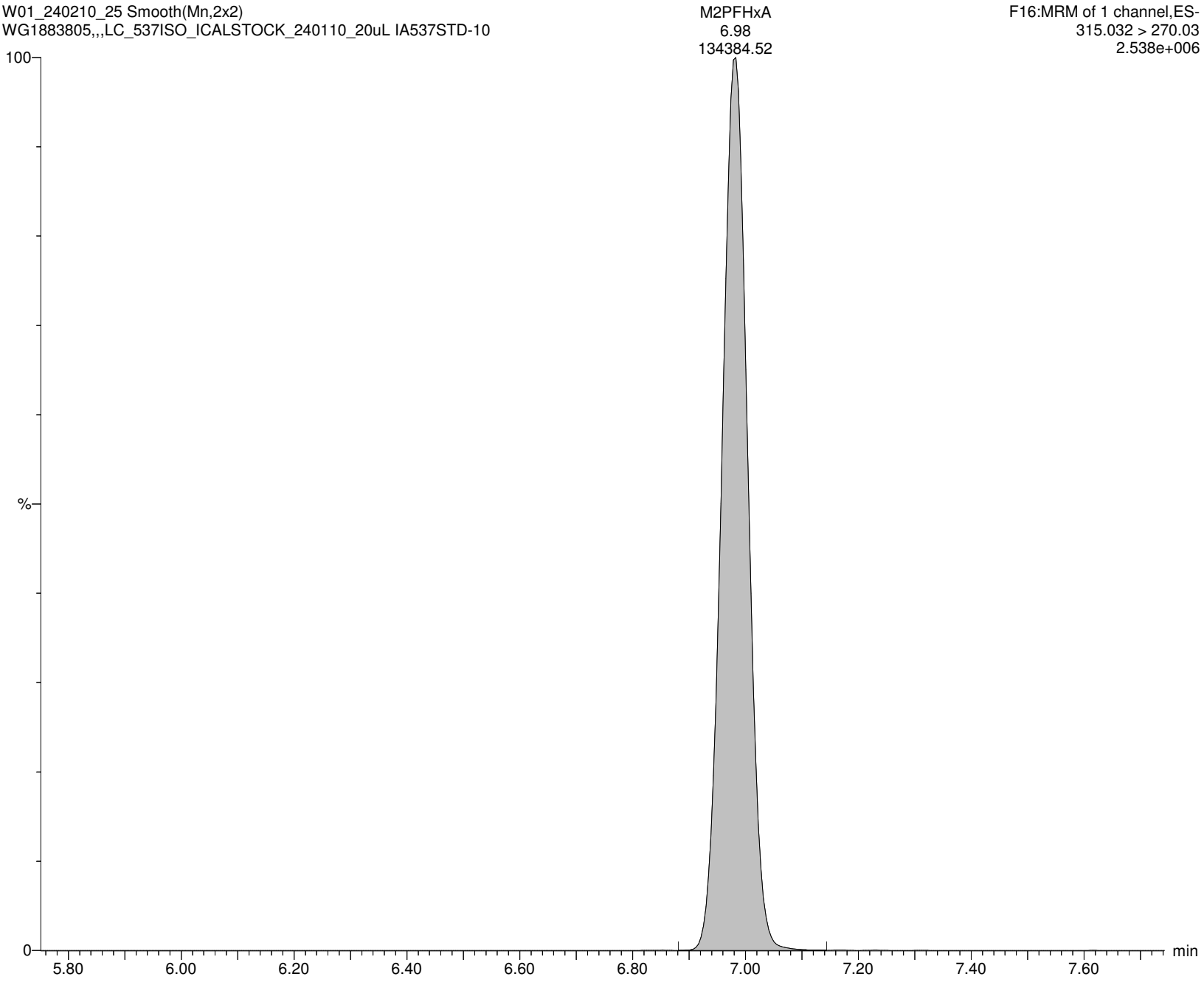
M2PFHxA



all concentration units in (ng/mL)

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Name: W01_240210_25
ID: IA537STD-10
Date: 10-Feb-2024
Time: 17:19:44
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_20uL
User: LCMS01:SG
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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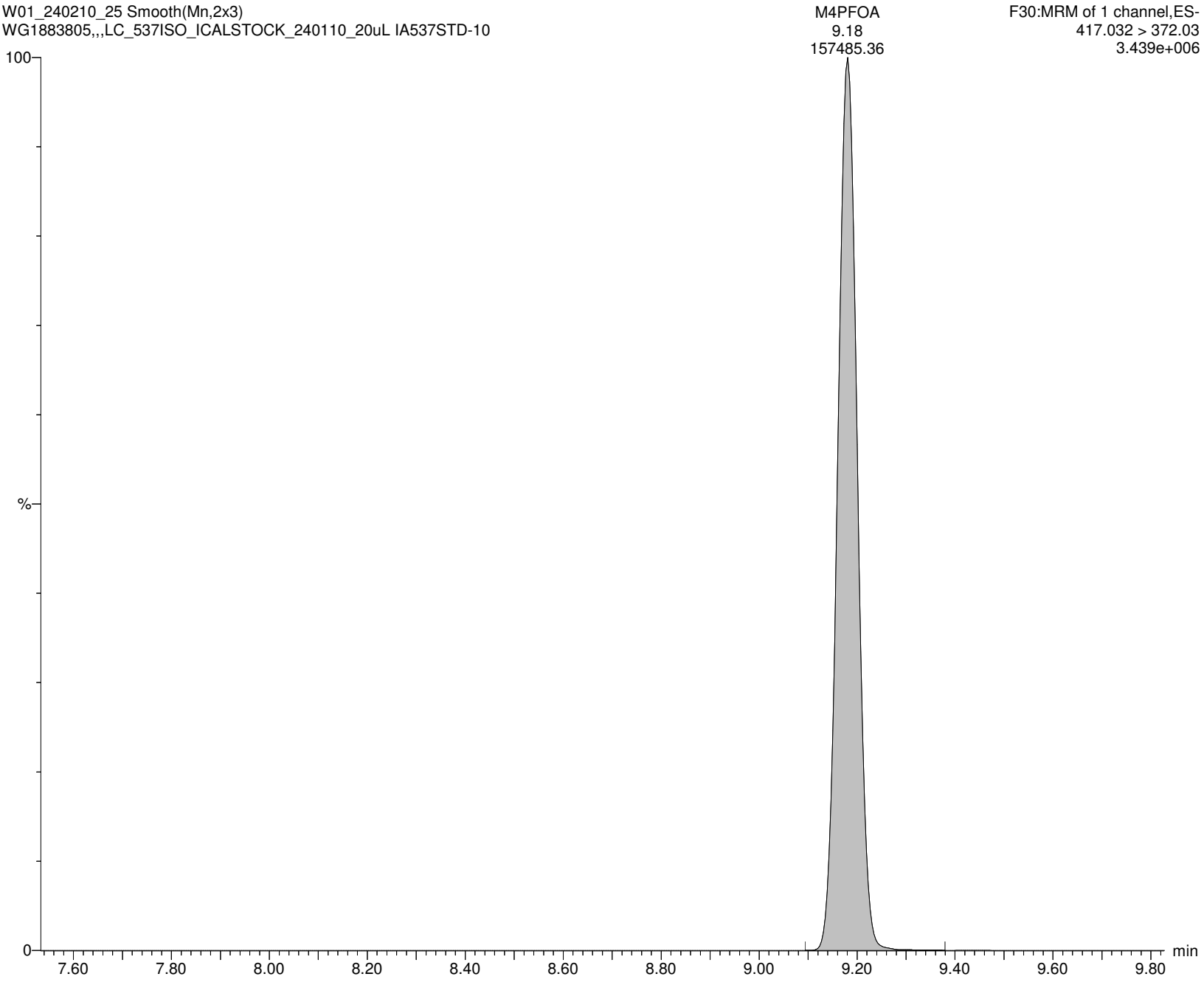

all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: IA537STD-25
Name: W01_240210_26
Date: 10-Feb-2024
Time: 17:36:15
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_50uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	211703		26.551		na	106.2
2	M3PFBA	INT STD	2.24	216.009 > 171.999	76834		10.018		na	100.2
3	MPFBA	INT STD	2.24	217.001 > 171.999	88030		10.069		na	100.7
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	246986		26.577		na	106.3
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	91930		10.071		na	100.7
6	PFBS	375-73-5	5.75	299.092 > 80.062	84017		23.606	1.83	NO	106.5
7	M3PFBS	INT STD	5.75	302.069 > 80.062	32123		9.347		na	100.3
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	24175		23.752	2.09	NO	101.4
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	10220		10.092		na	107.6
10	PFHxA	307-24-4	6.98	313.047 > 269.037	335223		26.835	14.62	NO	107.3
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	131543		10.054		na	100.5
12	PFPeS	2706-91-4	7.29	349.1 > 80.062	83849		22.387	1.53	NO	95.2
13	PFHpA	375-85-9	8.26	363.055 > 319.045	380869		27.181	4.45	NO	108.7
14	M4PFHpA	INT STD	8.25	367.025 > 322.022	139449		10.018		na	100.2
15	br-PFHxS	355-46-4	8.18	399.107 > 80.062	15171	M5,M7	4.098	1.84	NO	94.7
16	L-PFHxS	355-46-4	8.41	399.107 > 80.062	66047		17.645	1.46	NO	95.3
17	PFHxS	355-46-4		399.107 > 80.062	81218		21.743		na	
18	M3PFHxS	INT STD	8.41	402.084 > 80.062	32890		9.950		na	105.0
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.22	413.063 > 369.053	419332		27.140	11.67	NO	108.6
21	PFOA	335-67-1		413.063 > 369.053	419332		27.140		na	
22	M8PFOA	INT STD	9.22	421.002 > 376.	150280		9.935		na	99.4
23	M2PFOA	INT STD	9.22	415.048 > 370.045	149443		10.067		na	100.7
24	6:2FTS	27619-97-2	9.17	427.161 > 407.155	22650		24.819	3.46	NO	104.4
25	M2-6:2FTS	INT STD	9.17	429.146 > 409.14	10932		9.396		na	98.8
26	PFHpS	375-92-8	9.31	449.115 > 80.062	94979		26.649	1.56	NO	111.9
27	PFNA	375-95-1	9.99	463.071 > 419.061	439316		27.573	7.31	NO	110.3
28	M9PFNA	INT STD	9.99	472.002 > 427.	158126		10.063		na	100.6
29	br-PFOS	1763-23-1	9.85	499.123 > 80.062	23606	M5,M7	4.694	3.32	NO	95.8
30	L-PFOS	1763-23-1	10.04	499.123 > 80.062	75321		17.565	1.60	NO	96.0
31	PFOS	1763-23-1		499.123 > 80.062	98927		22.260		na	
32	M4PFOS	INT STD	10.04	503.093 > 80.062	36182		9.769		na	101.8
33	M8PFOS	INT STD	10.04	507.062 > 80.062	38516		9.978		na	104.0
34	PFDA	335-76-2	10.64	513.078 > 469.069	359140		27.093	5.13	NO	108.4
35	M2PFDA	INT STD	10.64	515.063 > 470.061	135402		10.092		na	100.9
36	M6PFDA	INT STD	10.64	519.033 > 474.03	136200		10.089		na	100.9
37	8:2FTS	39108-34-4	10.63	527.177 > 507.171	23198		24.887	2.78	NO	103.7
38	M2-8:2FTS	INT STD	10.63	529.162 > 509.155	11675		9.490		na	98.9
39	PFNS	68259-12-1	10.66	549.131 > 80.062	99755		23.707	1.95	NO	98.6

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User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.01	573.22 > 419.061	19473		9.392		na	93.9
41	br-NMeFOSAA	2355-31-9	10.85	570.202 > 419.061	3997	M5,M7	6.900	1.21	NO	115.0
42	L-NMeFOSAA	2355-31-9	11.01	570.202 > 419.061	29357		21.810	2.30	NO	114.8
43	NMeFOSAA	2355-31-9		570.202 > 419.061	33354		28.711		na	
44	PFUnA	2058-94-8	11.20	563.086 > 519.076	374173		25.168	6.24	NO	100.7
45	M7-PFUDA	INT STD	11.19	570.033 > 525.031	144709		9.839		na	98.4
46	PFDS	335-77-3	11.21	598.926 > 80.062	91225		24.066	1.78	NO	99.8
47	FOSA	754-91-6	10.97	498.146 > 78.07	267876		24.919	36.47	NO	99.7
48	M8FOSA	INT STD	10.97	506.077 > 78.07	98128		9.886		na	98.9
49	d5-NEtFOSAA	INT STD	11.30	589.259 > 419.061	18457		9.444		na	94.4
50	br-NEtFOSAA	2991-50-6	11.16	584.229 > 419.061	3977	M5,M7	5.782	0.81	NO	102.8
51	L-NEtFOSAA	2991-50-6	11.31	584.229 > 419.061	28680		19.623	1.41	NO	101.3
52	NEtFOSAA	2991-50-6		584.229 > 419.061	32657		25.405		na	
53	PFDoA	307-55-1	11.68	613.094 > 569.084	462666		25.108	7.42	NO	100.4
54	MPFDOA	INT STD	11.68	615.079 > 570.077	172742		10.465		na	104.6
55	PFTrDA	72629-94-8	12.10	663.102 > 619.092	320245		26.502	8.90	NO	106.0
56	PFTA	376-06-7	12.46	713.11 > 669.1	414830		25.066	15.45	NO	100.3
57	M2PFTEDA	INT STD	12.46	715.094 > 670.092	150521		10.111		na	101.1
58	M3HFPO-DA	INT STD	7.41	287.02 > 169.022	169615		199.795		na	99.9
59	HFPO-DA	13252-13-6	7.41	285.035 > 169.022	143459		232.118	23.75	NO	92.8
60	ADONA	958445-44-8	8.43	377.06 > 251.028	442798		26.353	86.40	NO	111.5
61	PFHxDA		12.84	813.122 > 769.116	709674		27.699	52.79	NO	110.8
62	PFODA		13.06	913.411 > 869.131	199178		25.757	92.87	NO	103.0
63	M2PFHxDA		12.84	815.102 > 770.108	234321		10.162		na	101.6
64	PFDoS		12.09	699.154 > 80.062	88477		23.725	1.56	NO	98.0
65	M2D4-10:2FTS		11.69	633.201 > 612.189	10408		19.653		na	100.3
66	10:2FTS		11.69	627.192 > 607.186	21724	M4,M7	26.719	3.27	NO	110.6
67	9CL-PF3ONS		10.40	531.096 > 351.07	223099		22.363	2.30	NO	95.9
68	11CL-PFOUdS		11.47	631.096 > 451.076	221945		23.132	2.90	NO	98.1
69	NMeFOSA		11.59	512.163 > 169.022	438053		153.605	1.59	NO	122.9
70	d3-NMeFOSA		11.58	515.183 > 169.022	275379		98.311		na	98.3
71	NEtFOSA		11.89	526.192 > 169.022	420811		151.647	8.89	NO	121.3
72	d5-NEtFOSA		11.89	531.222 > 169.022	266844		94.465		na	94.5
73	NMeFOSE		11.60	616 > 59	242966		66.379		na	106.2
74	d7-NMeFOSE		11.58	623 > 59	303728		98.793		na	98.8
75	NEtFOSE		11.88	630 > 59	209074		64.896		na	103.8
76	d9-NEtFOSE		11.86	639 > 59	335079		100.106		na	100.1
77	PFPrS		3.60	249.084 > 80.062	90441		22.665	3.03	NO	98.5
78	PFMPA		3.59	229.032 > 85.005	166290		25.455		na	101.8
79	PFMBA		5.83	279.042 > 85.006	257080		28.323		na	113.3
80	PFEESA		6.49	315.093 > 135.013	435425		21.298	16.07	NO	95.7
81	NFDHA		6.76	295.032 > 201.027	5188		27.140	87.89	NO	108.6
82	M3PFPeA		5.12	266.017 > 222.007	141232		10.751		na	107.5

all concentration units in (ng/mL)

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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

ID: IA537STD-25
Name: W01_240210_26
Date: 10-Feb-2024
Time: 17:36:15
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_50uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.98	315.032 > 270.03	195142		10.697		na	107.0
84	M4PFOA		9.22	417.032 > 372.03	226395		10.779		na	107.8

all concentration units in (ng/mL)

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Date: 10-Feb-2024
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User: LCMS01:SG
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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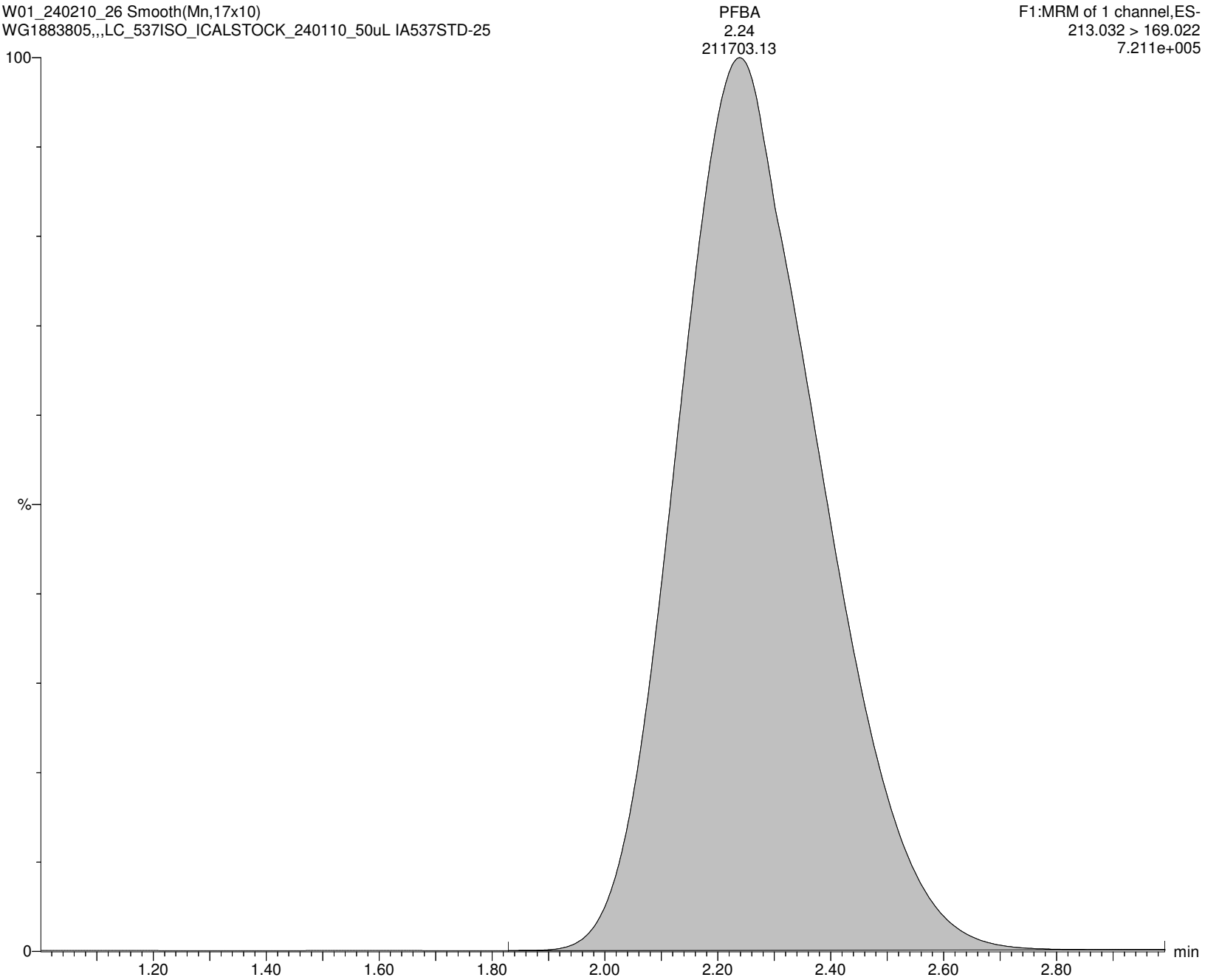
PFBA



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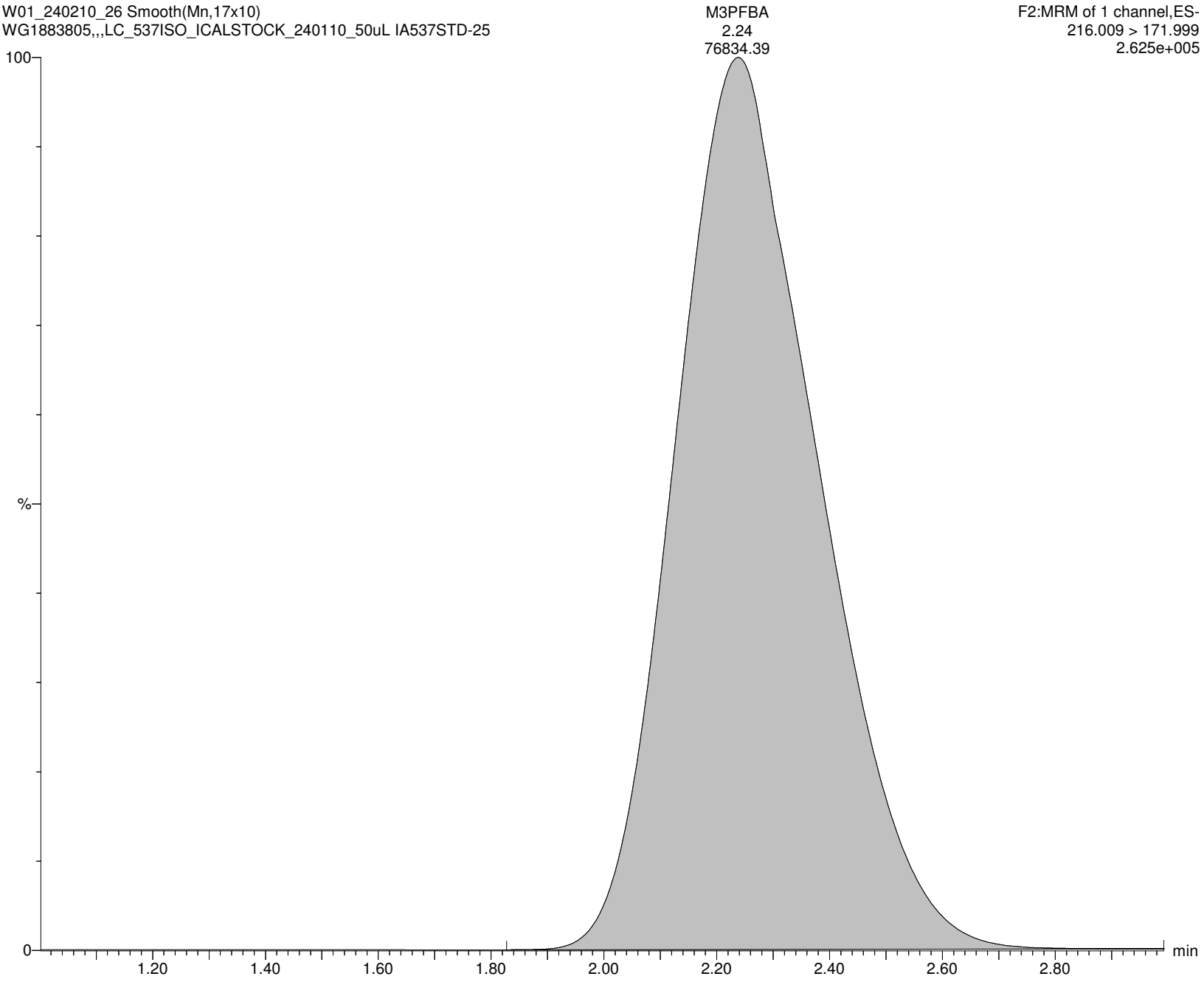
M3PFBA



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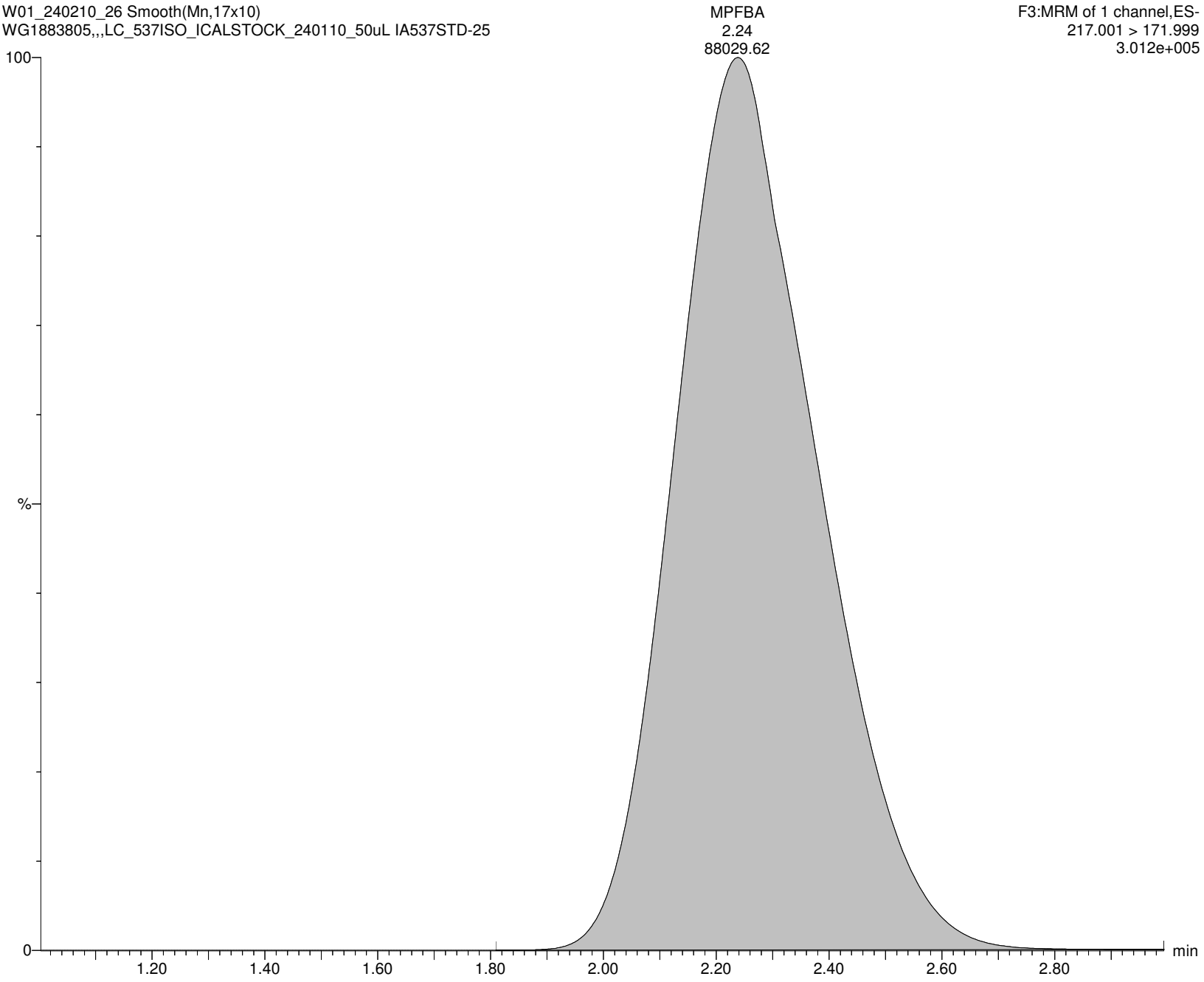
MPFBA



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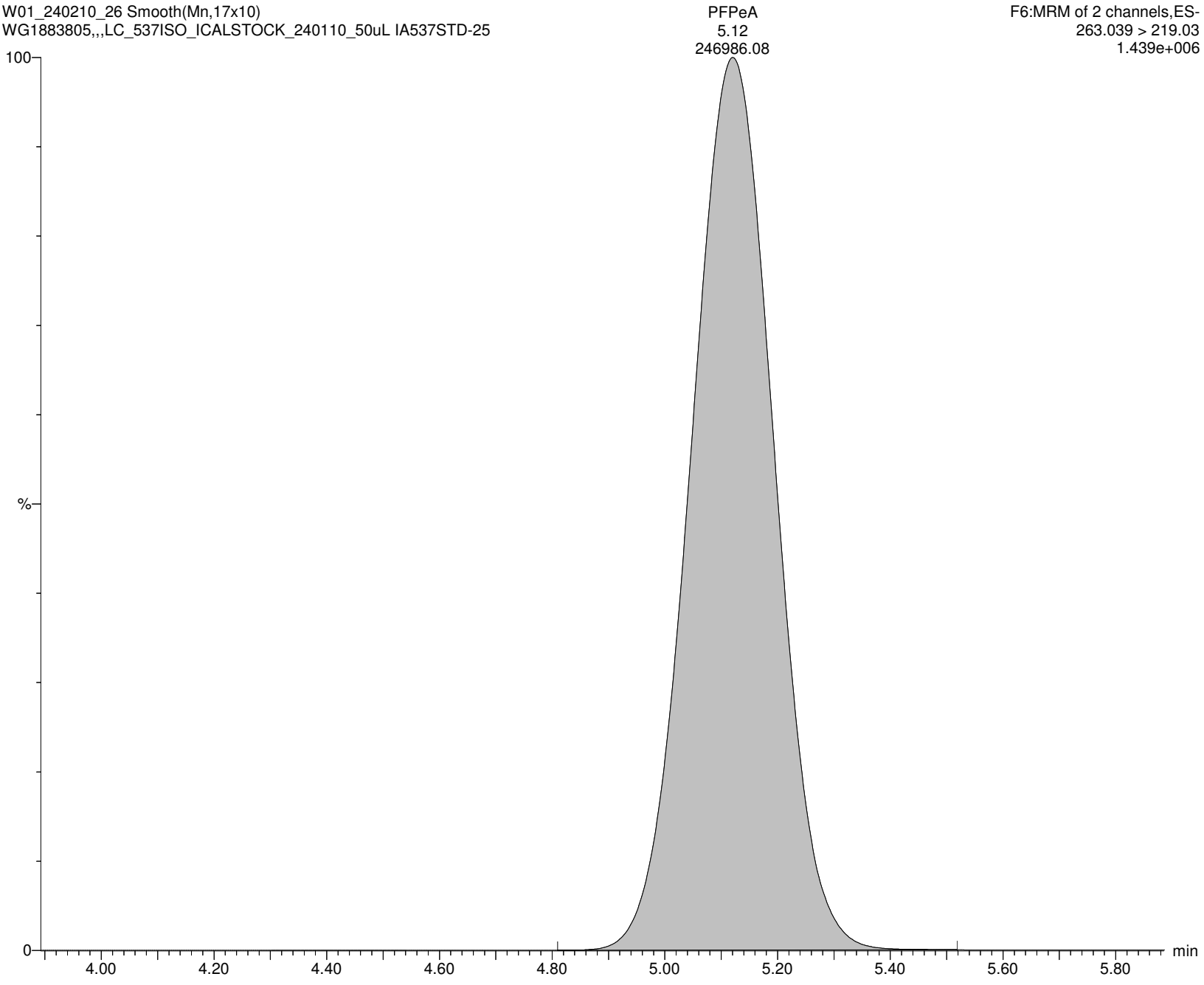
PFPeA



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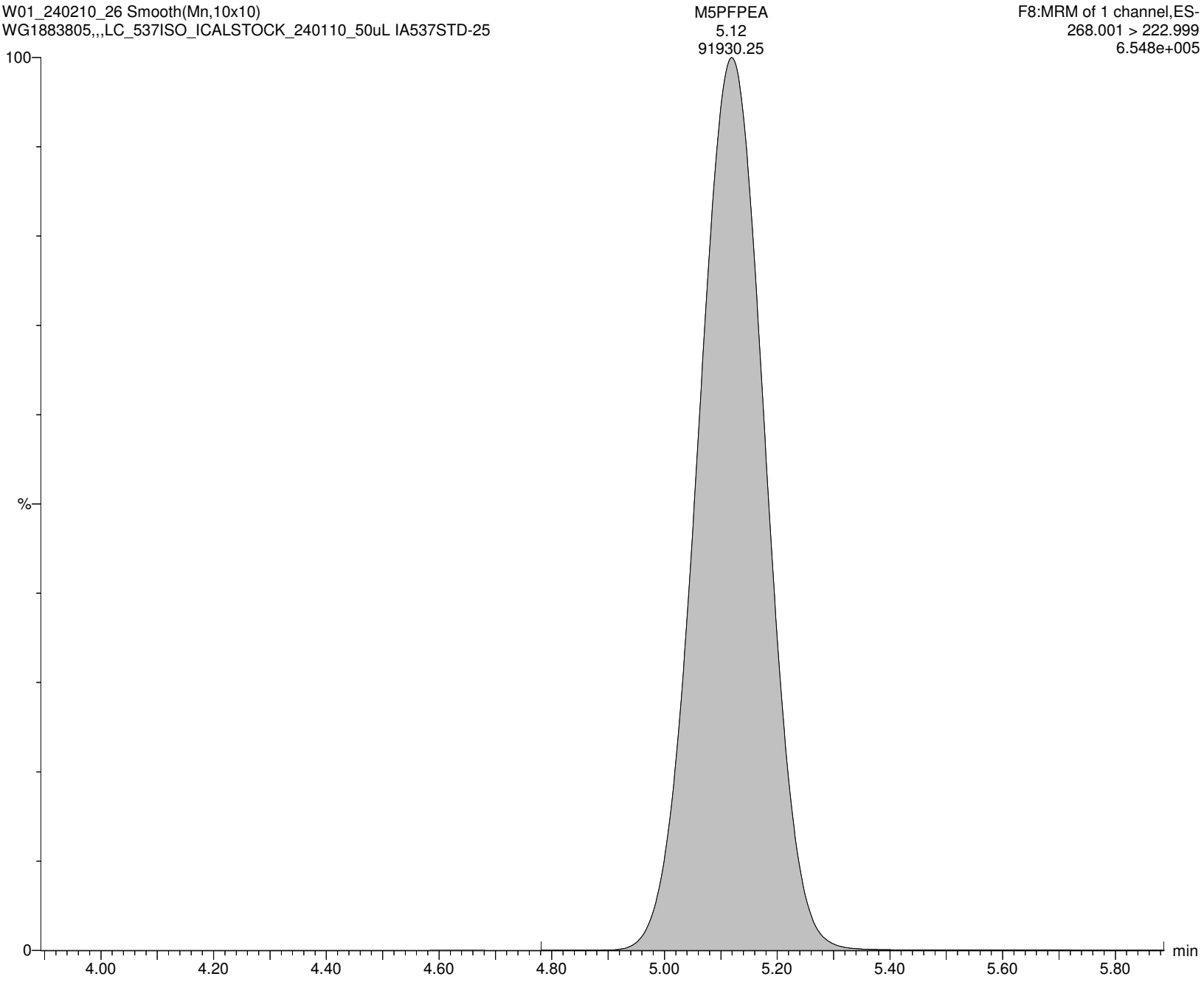
M5PFPEA



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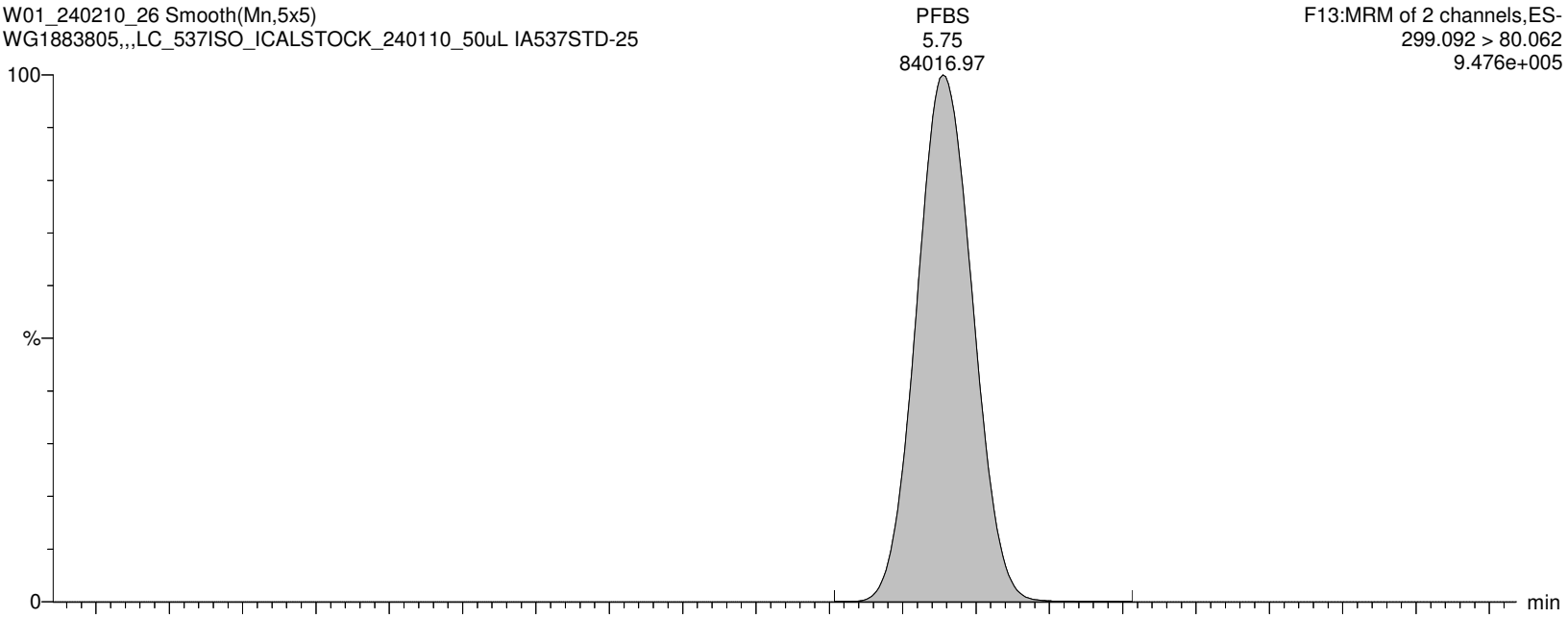
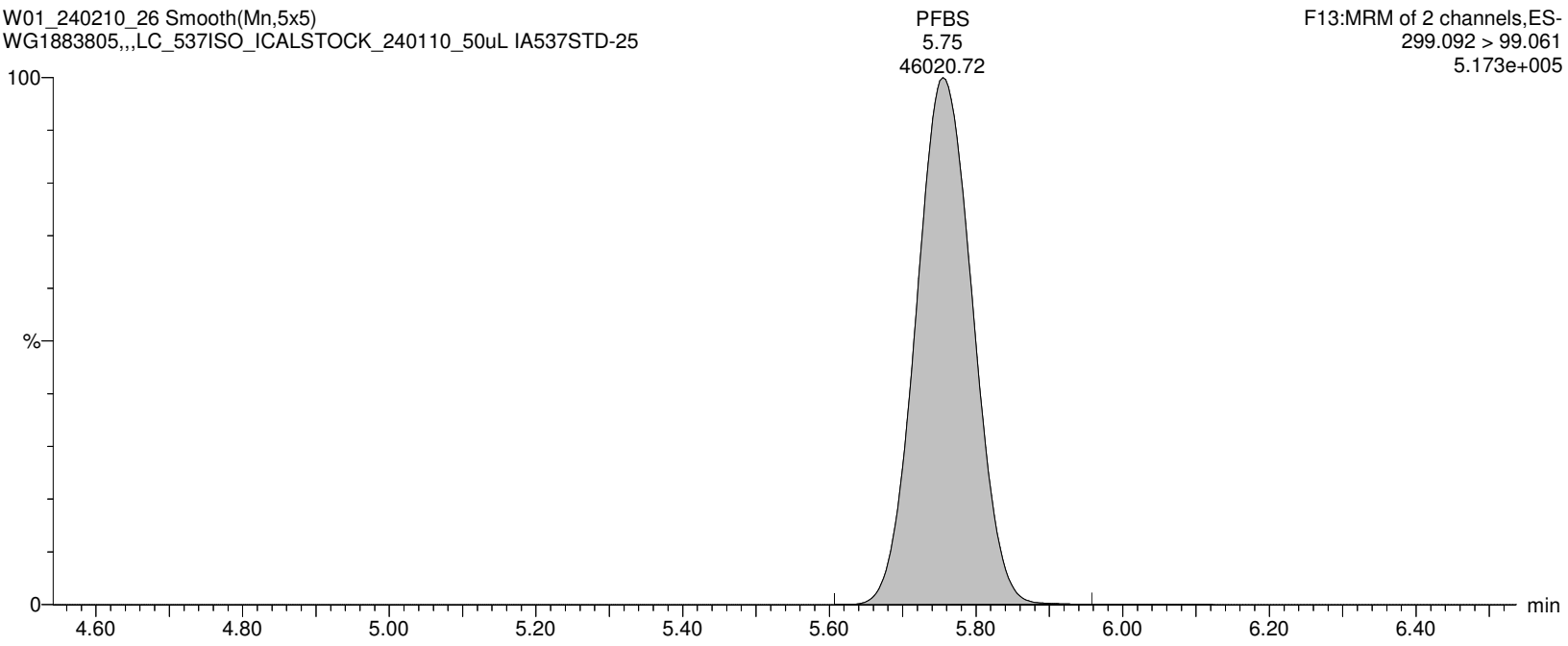
PFBS





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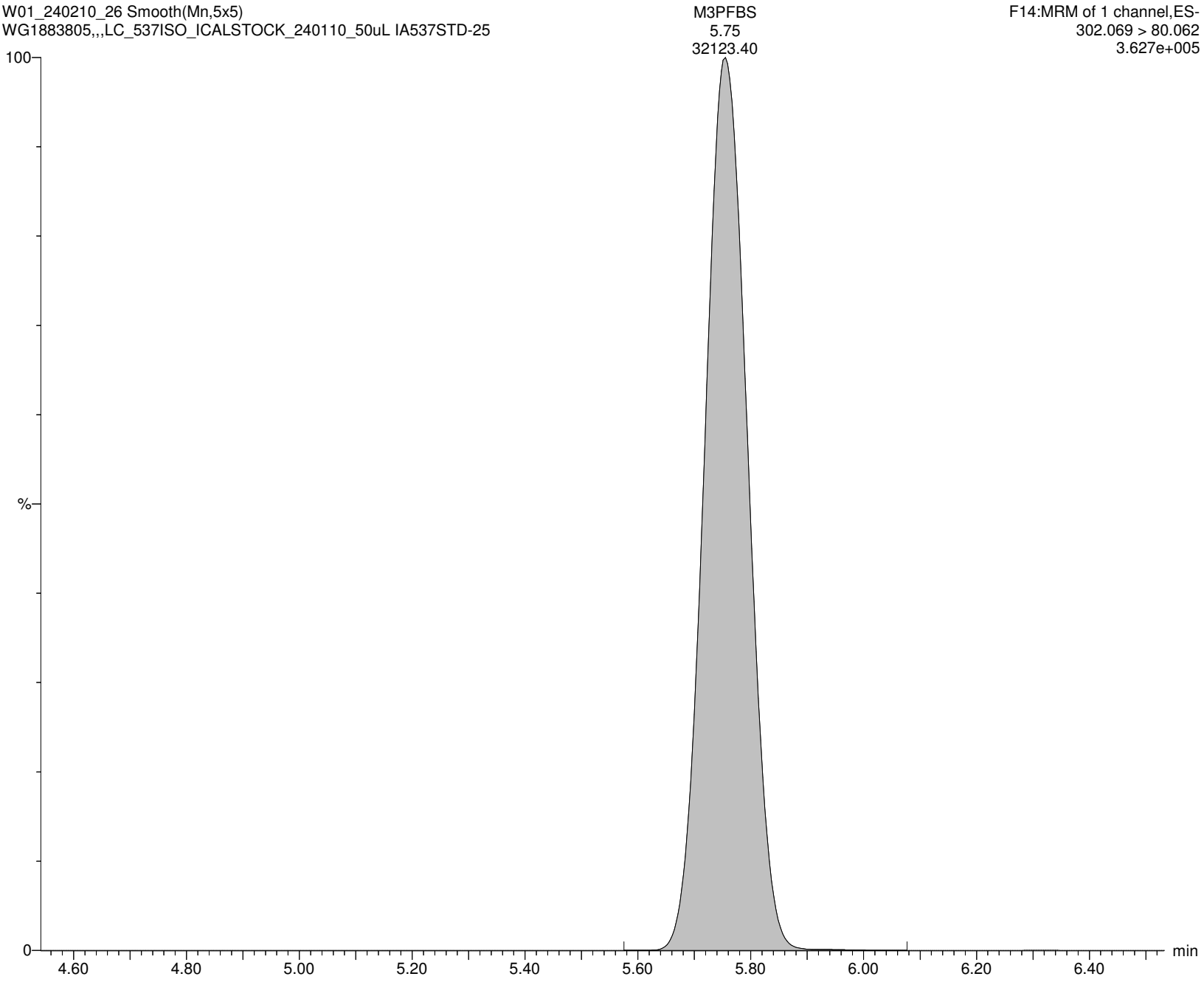
M3PFBS



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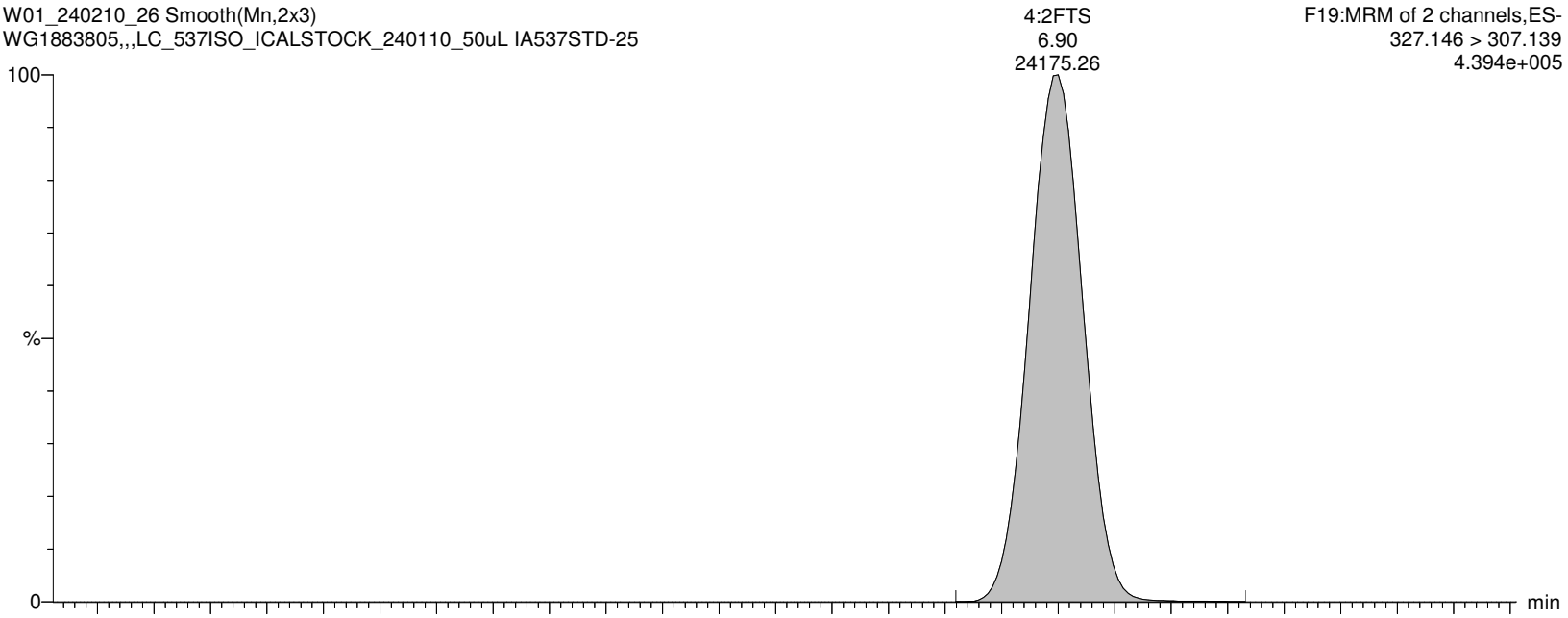

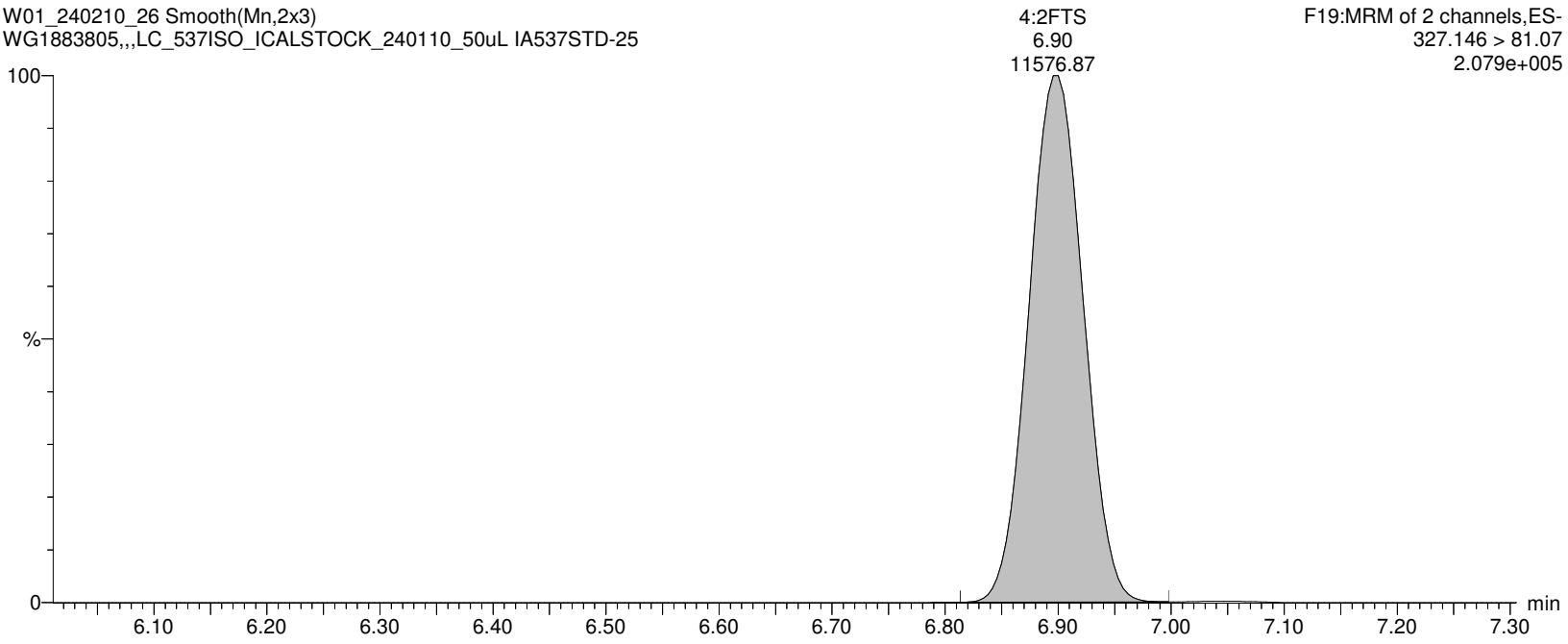

all concentration units in (ng/mL)

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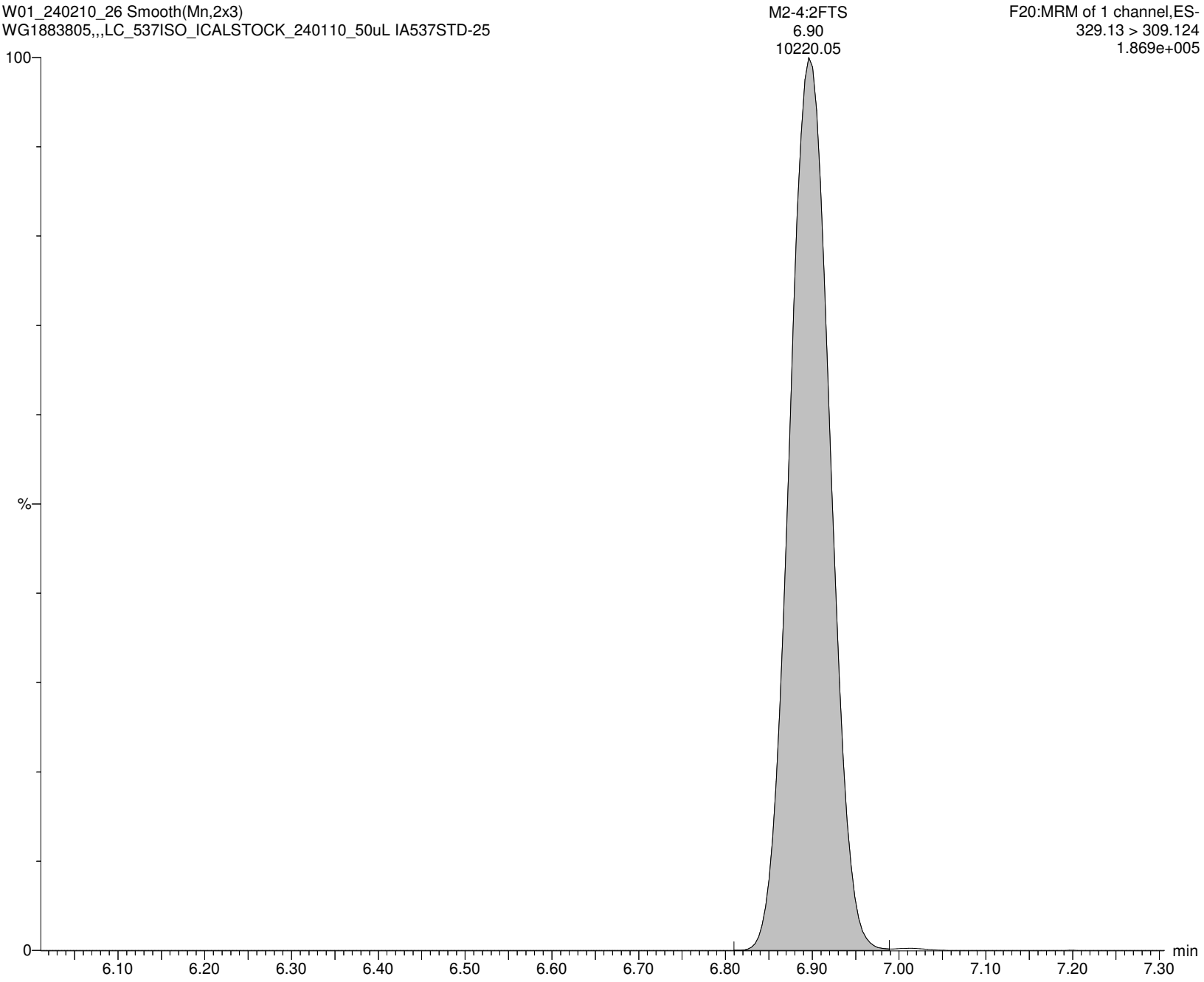

all concentration units in (ng/mL)

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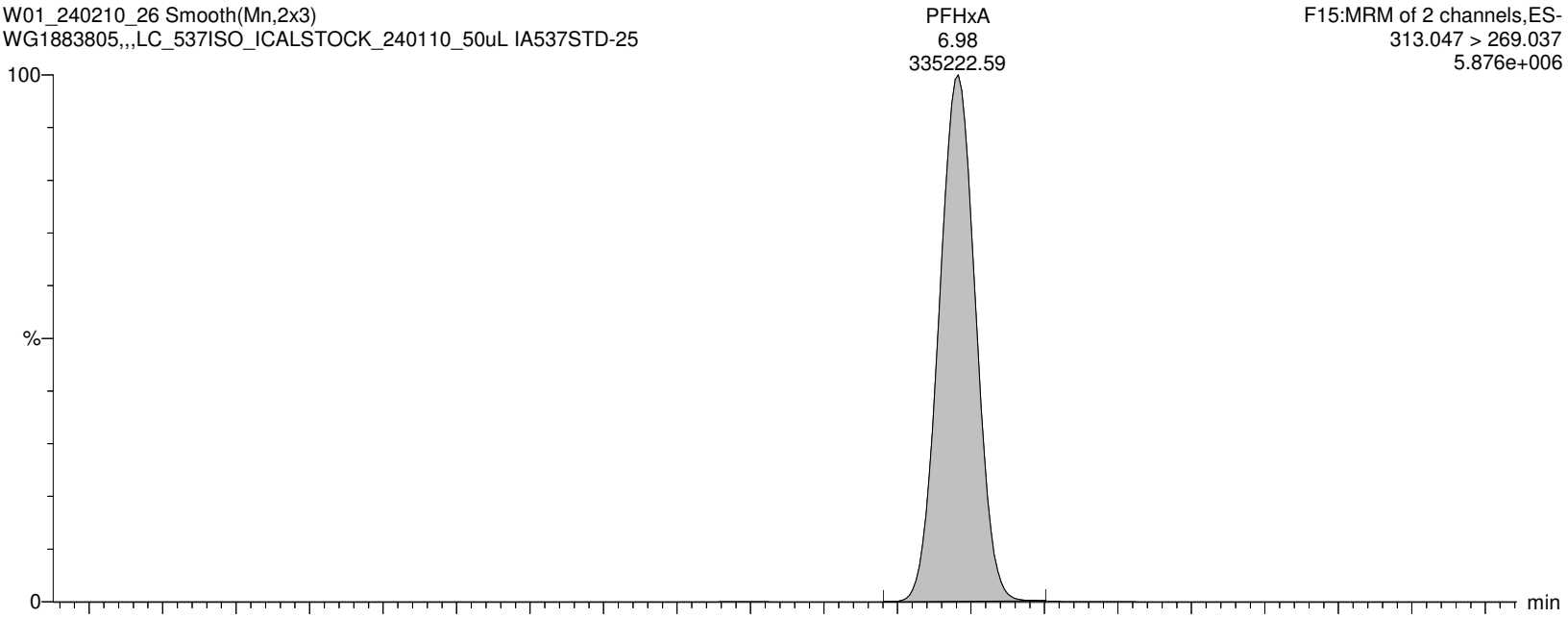

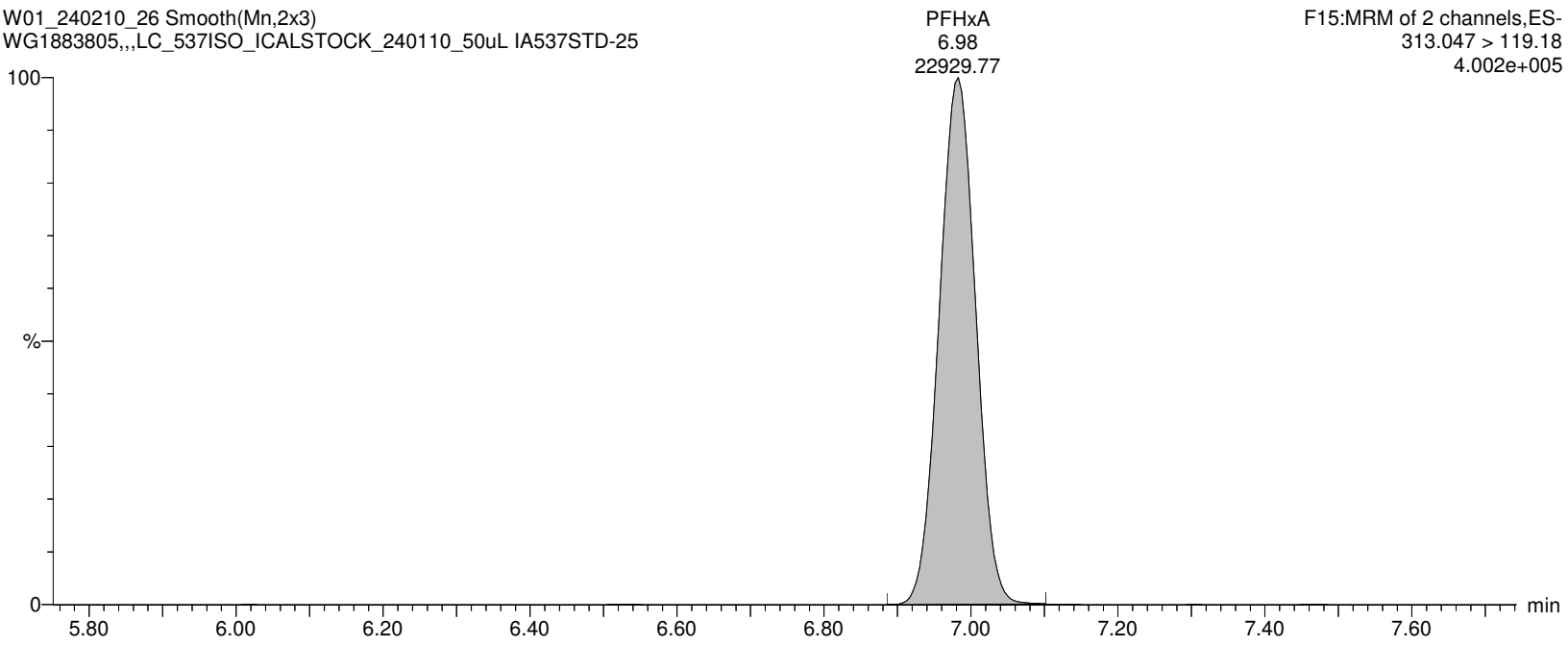

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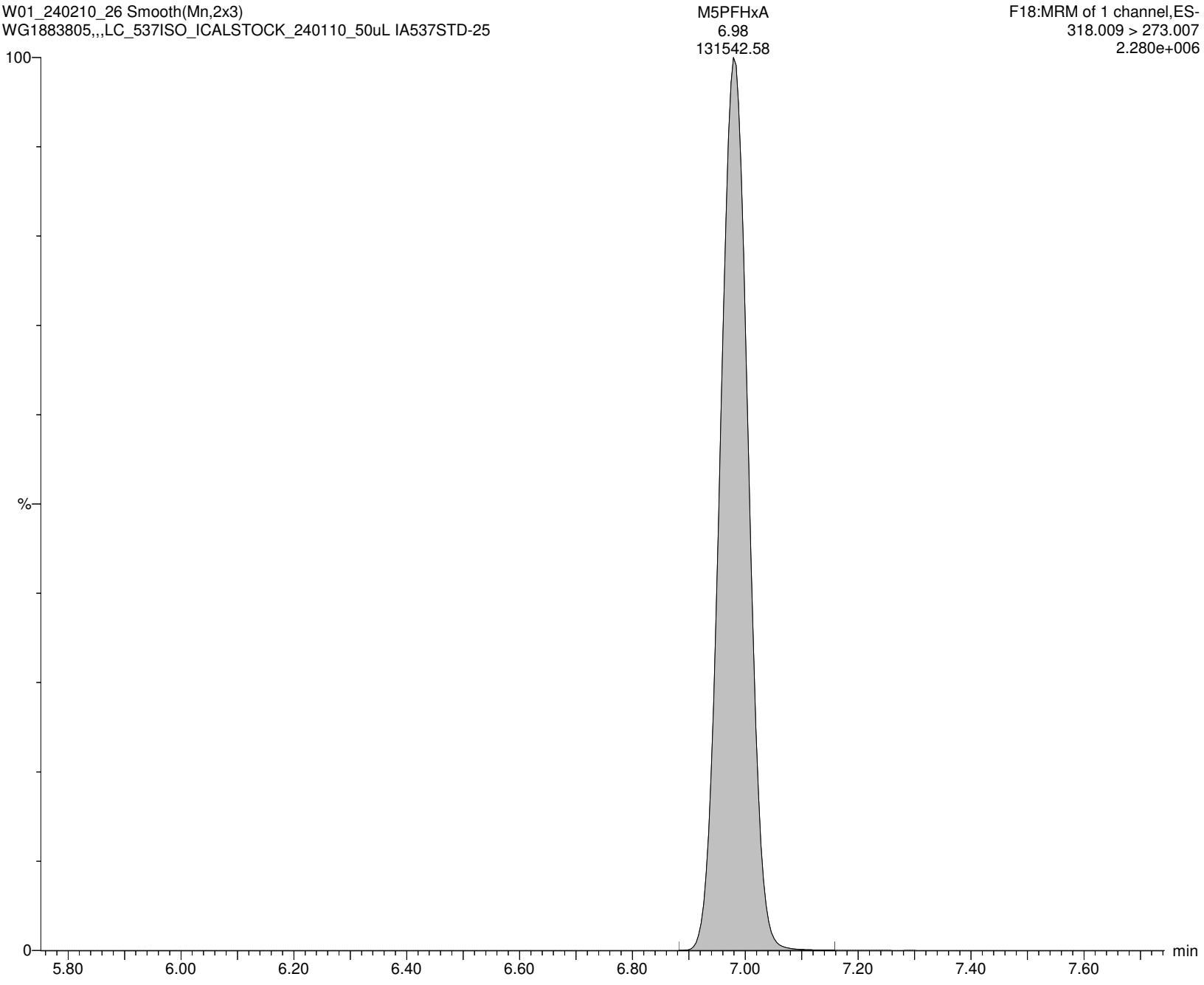

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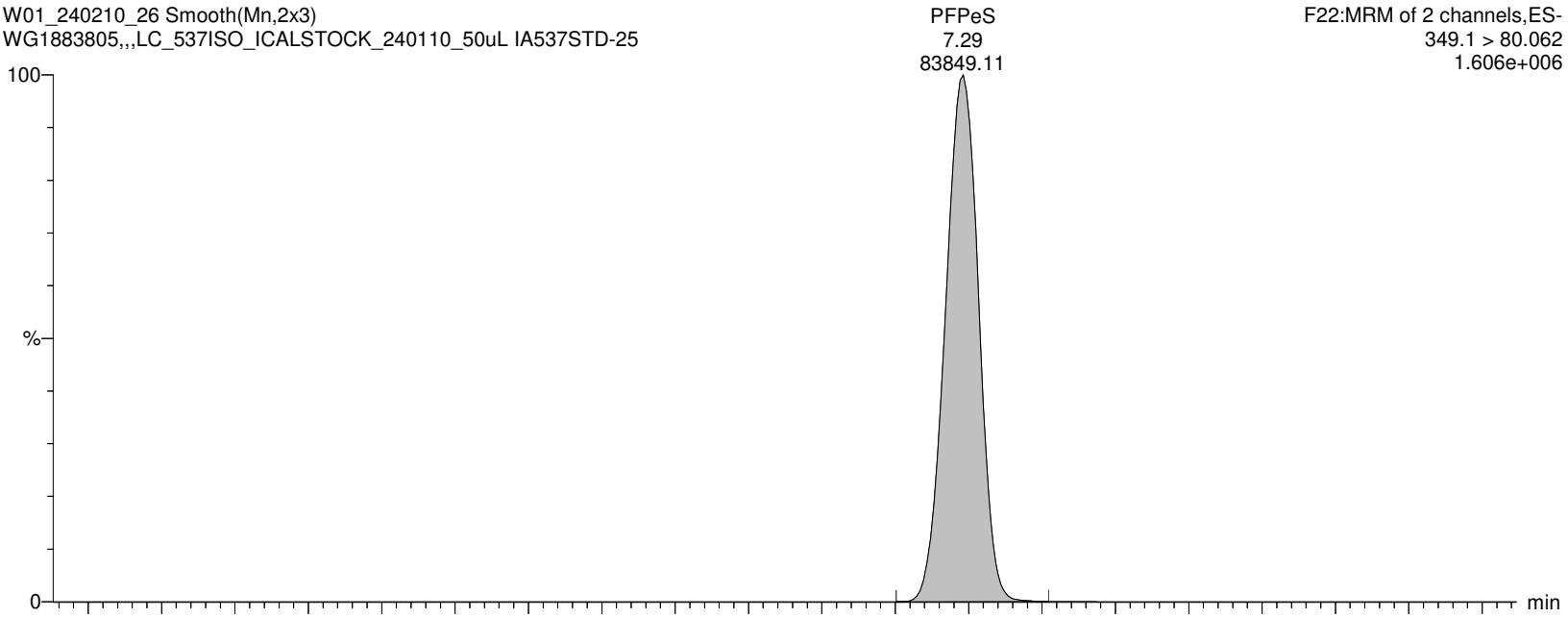

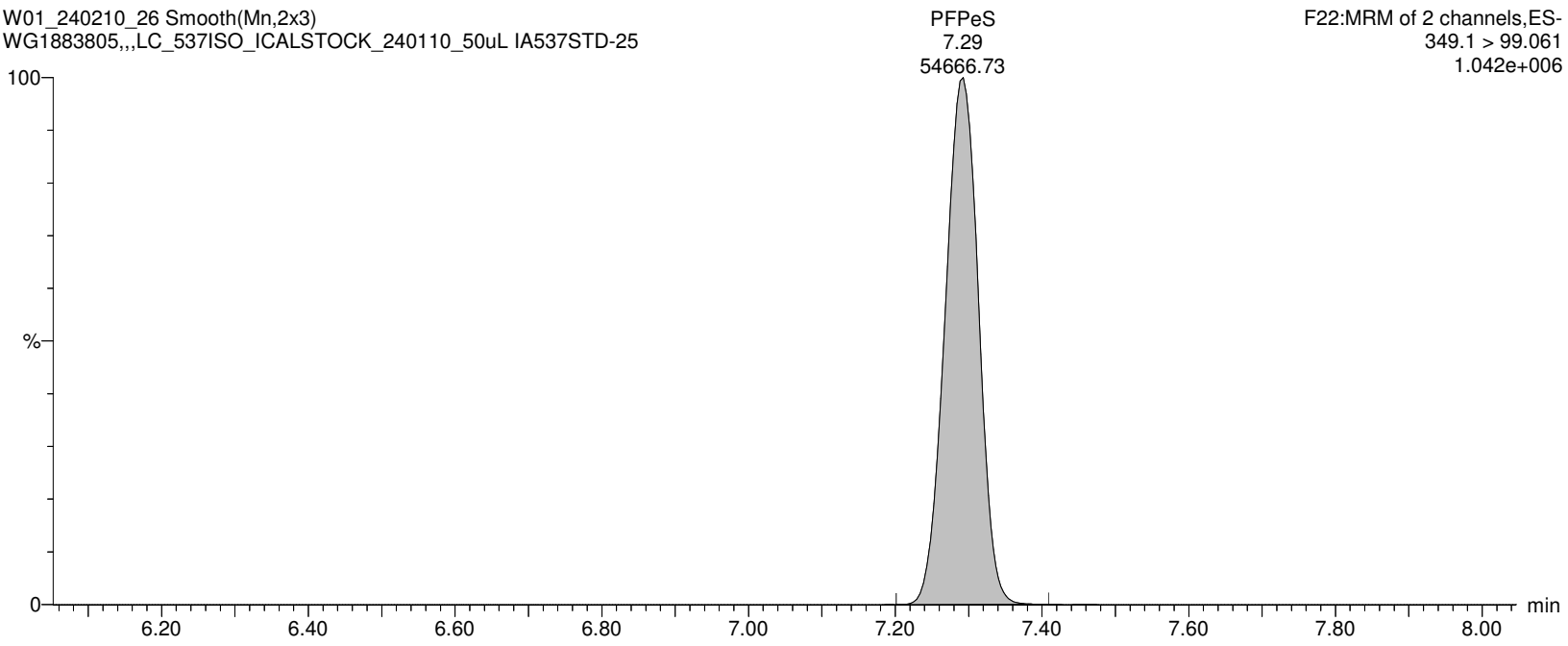

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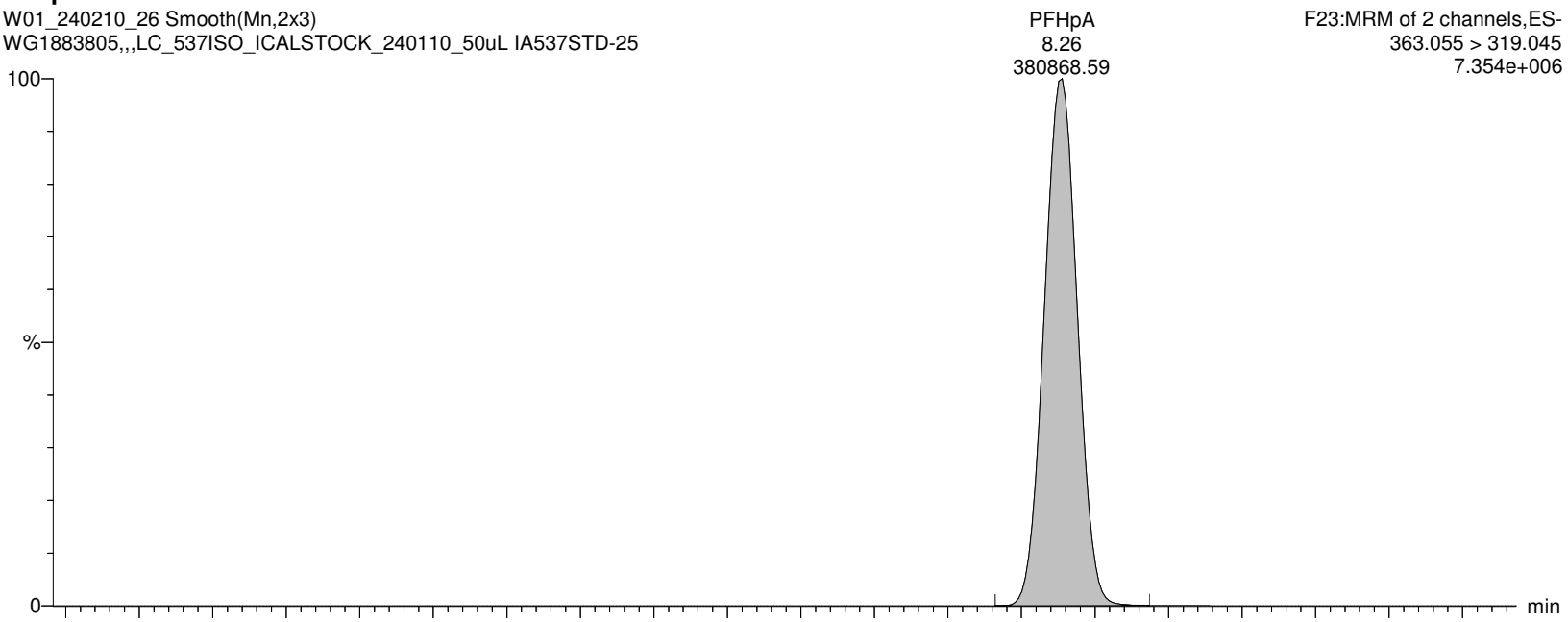
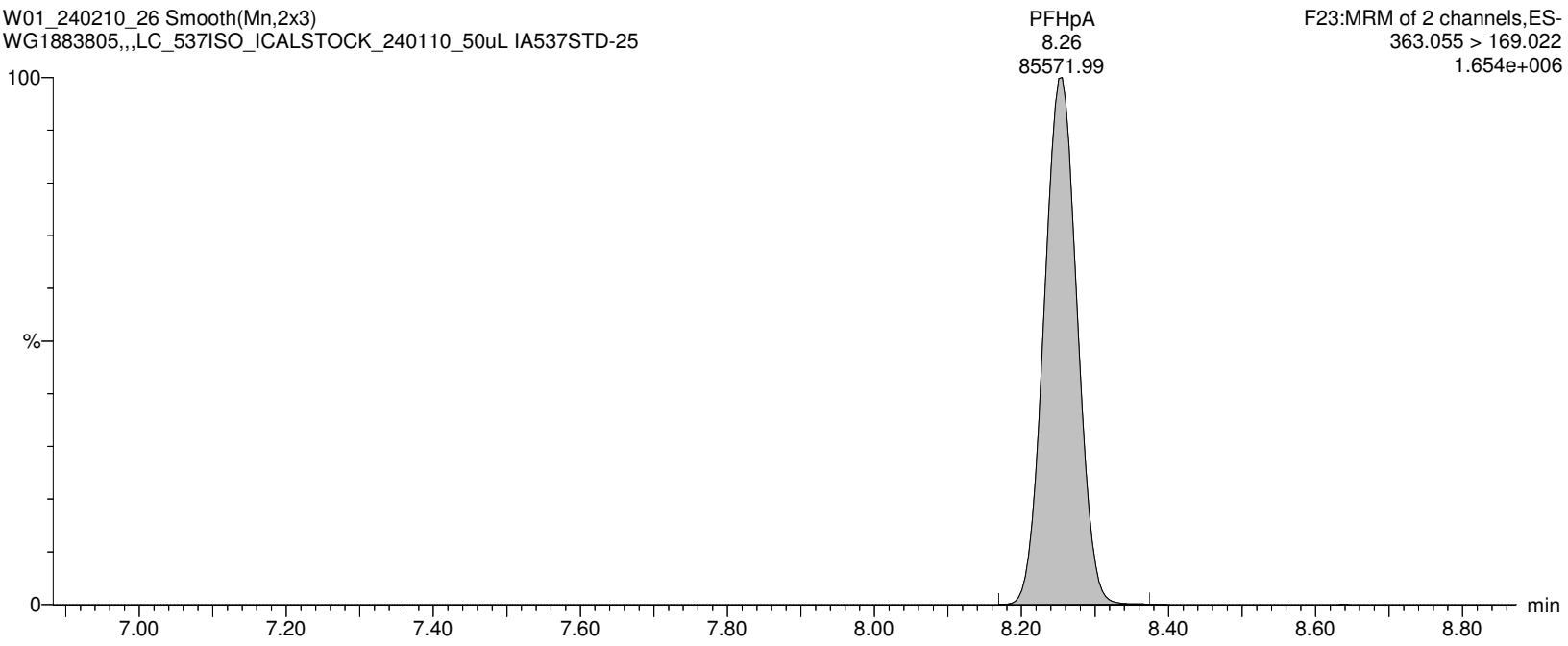
PFHpA





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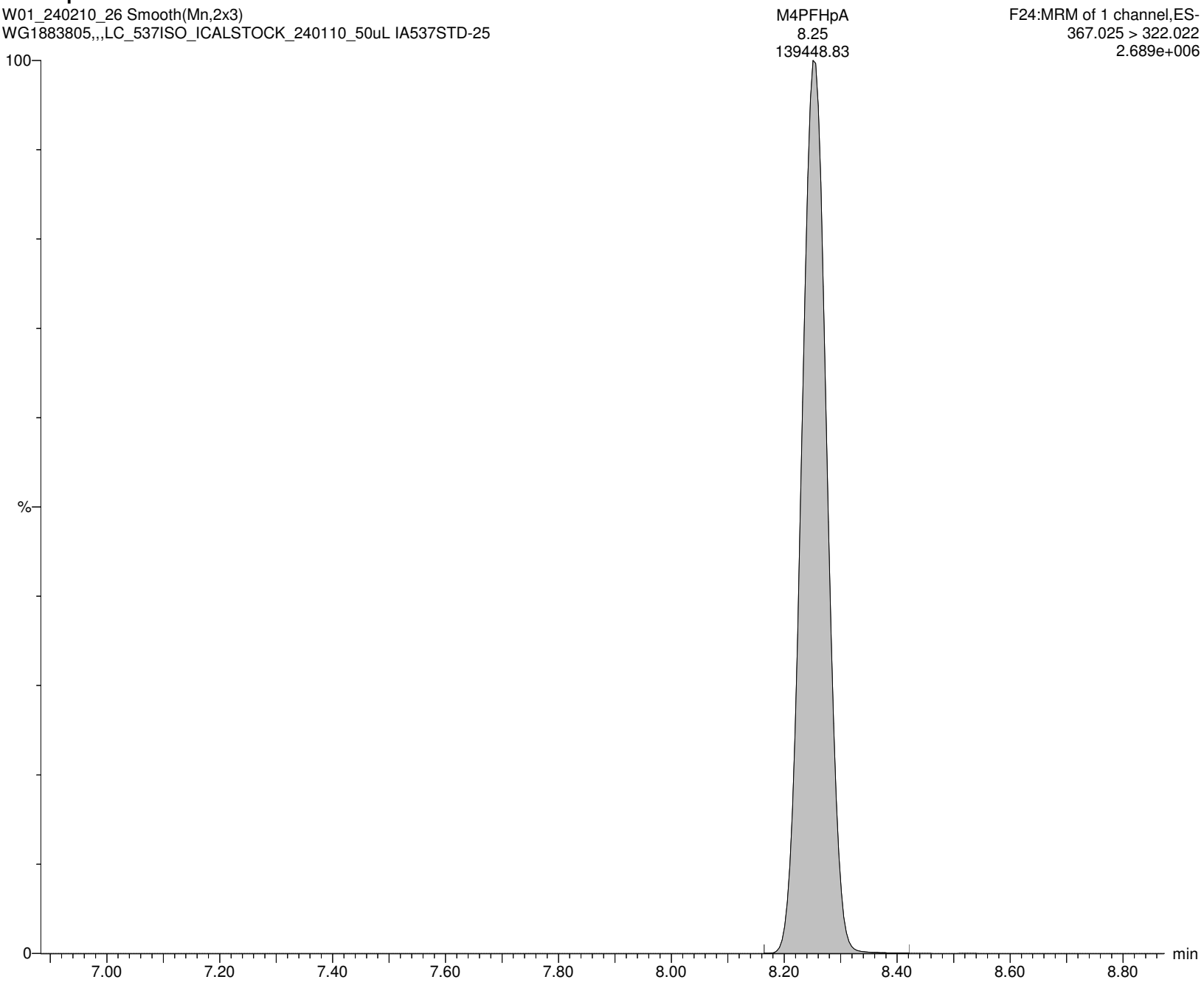
M4PFHpA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

Name: W01_240210_26
ID: IA537STD-25
Date: 10-Feb-2024
Time: 17:36:15
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User: LCMS01:SG
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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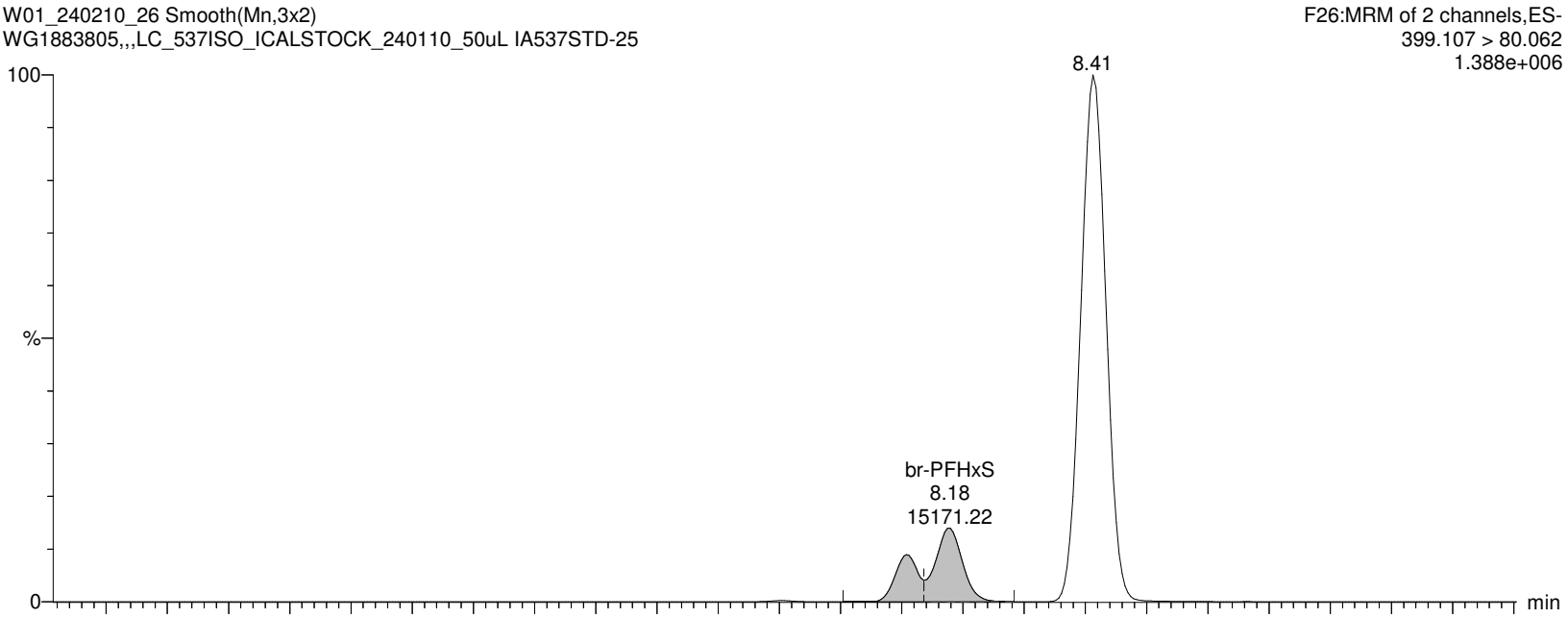

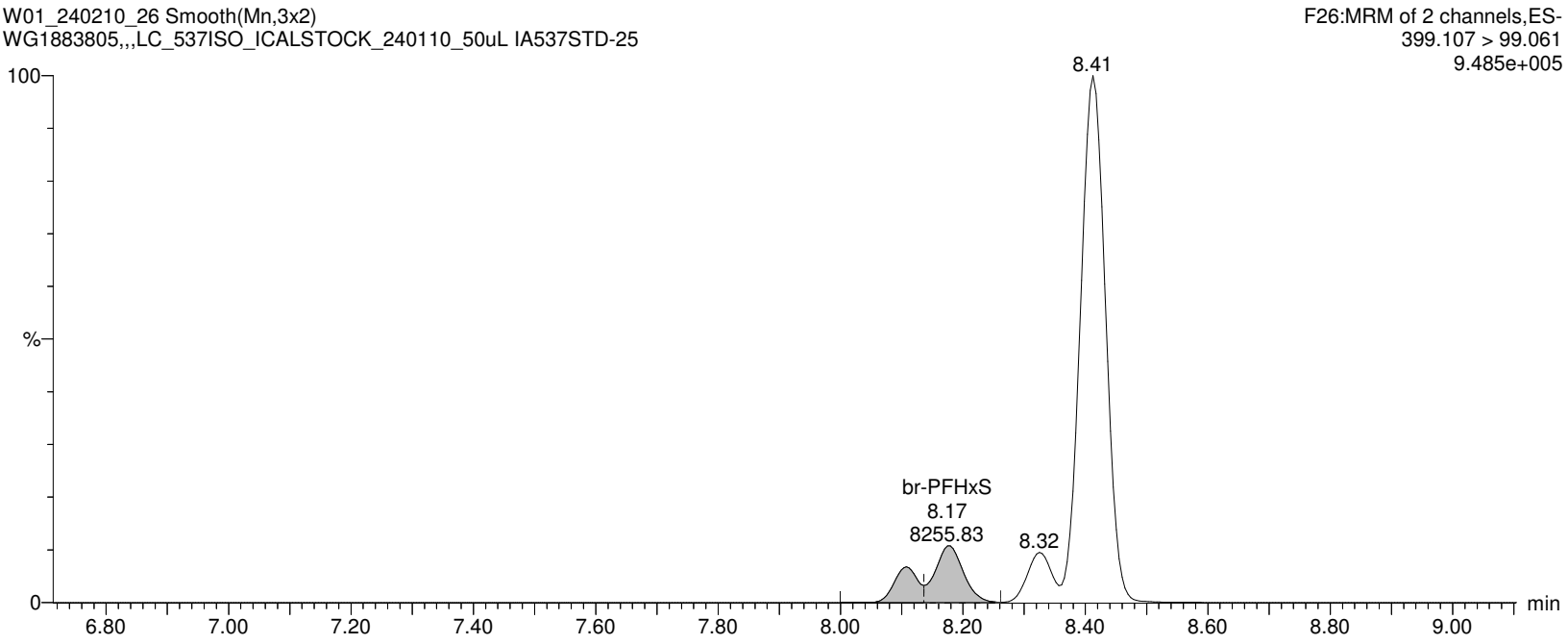

all concentration units in (ng/mL)

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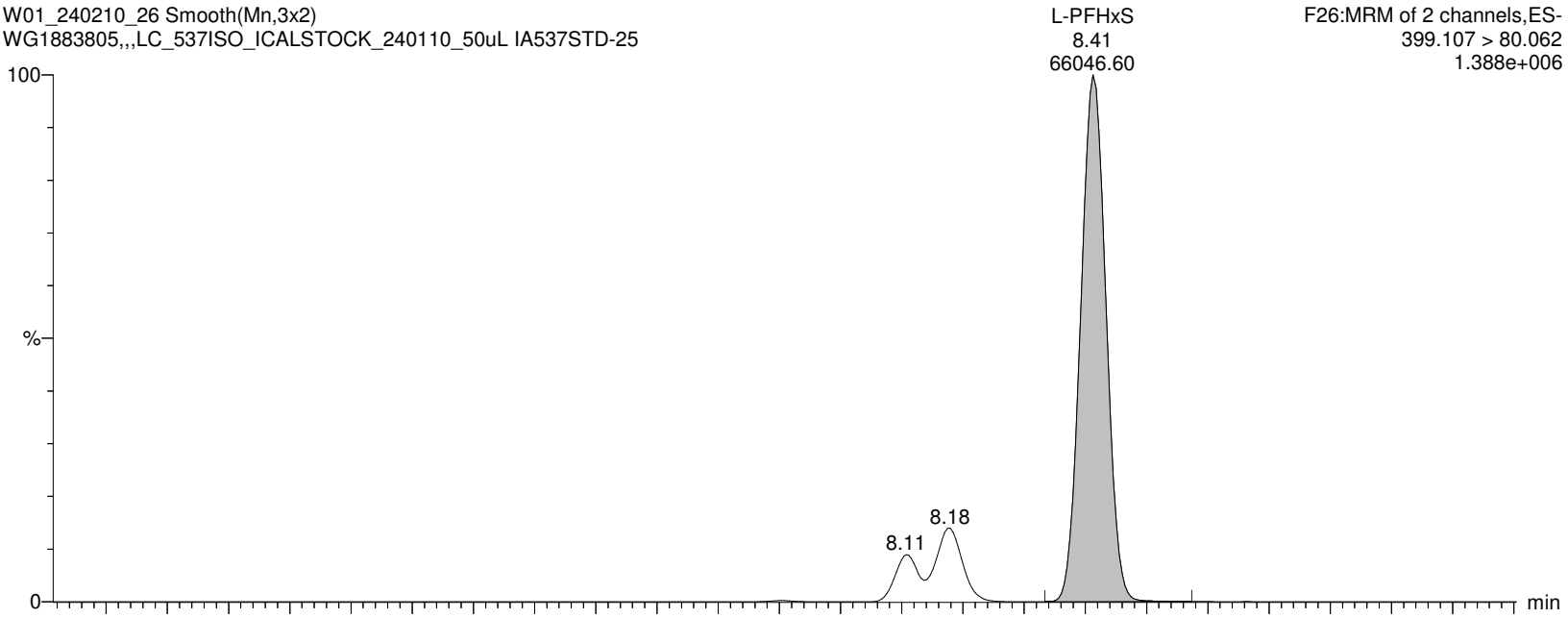

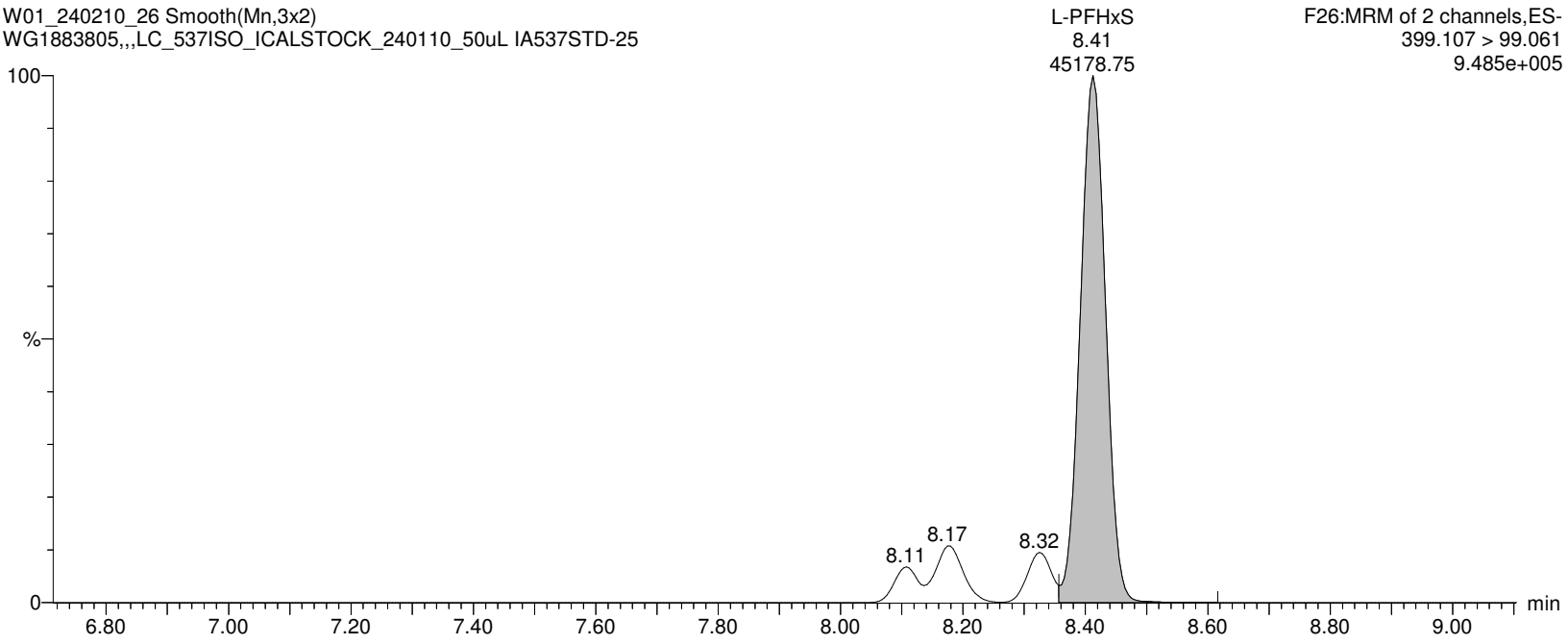

all concentration units in (ng/mL)

Alpha Analytical Inc.
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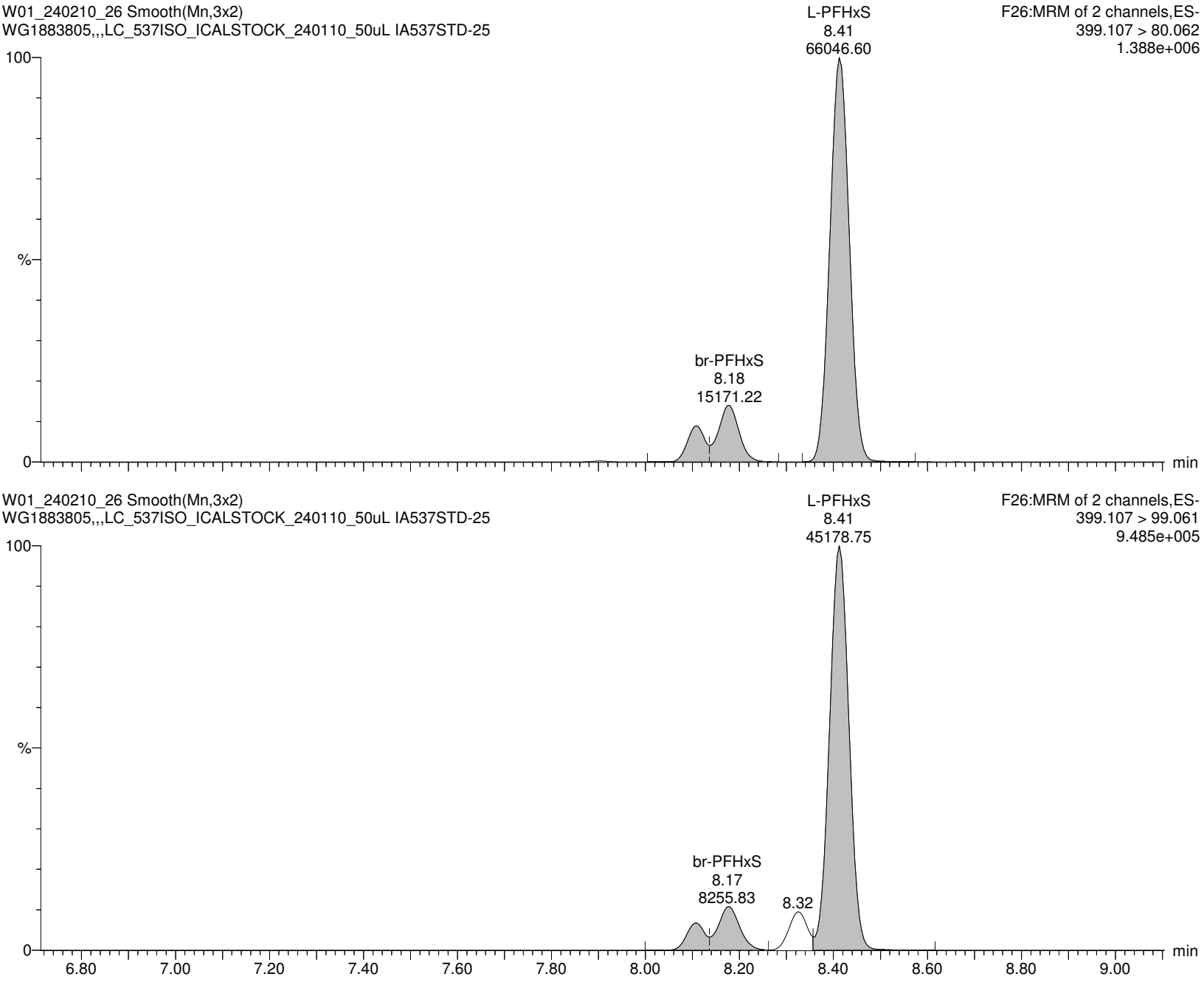

all concentration units in (ng/mL)

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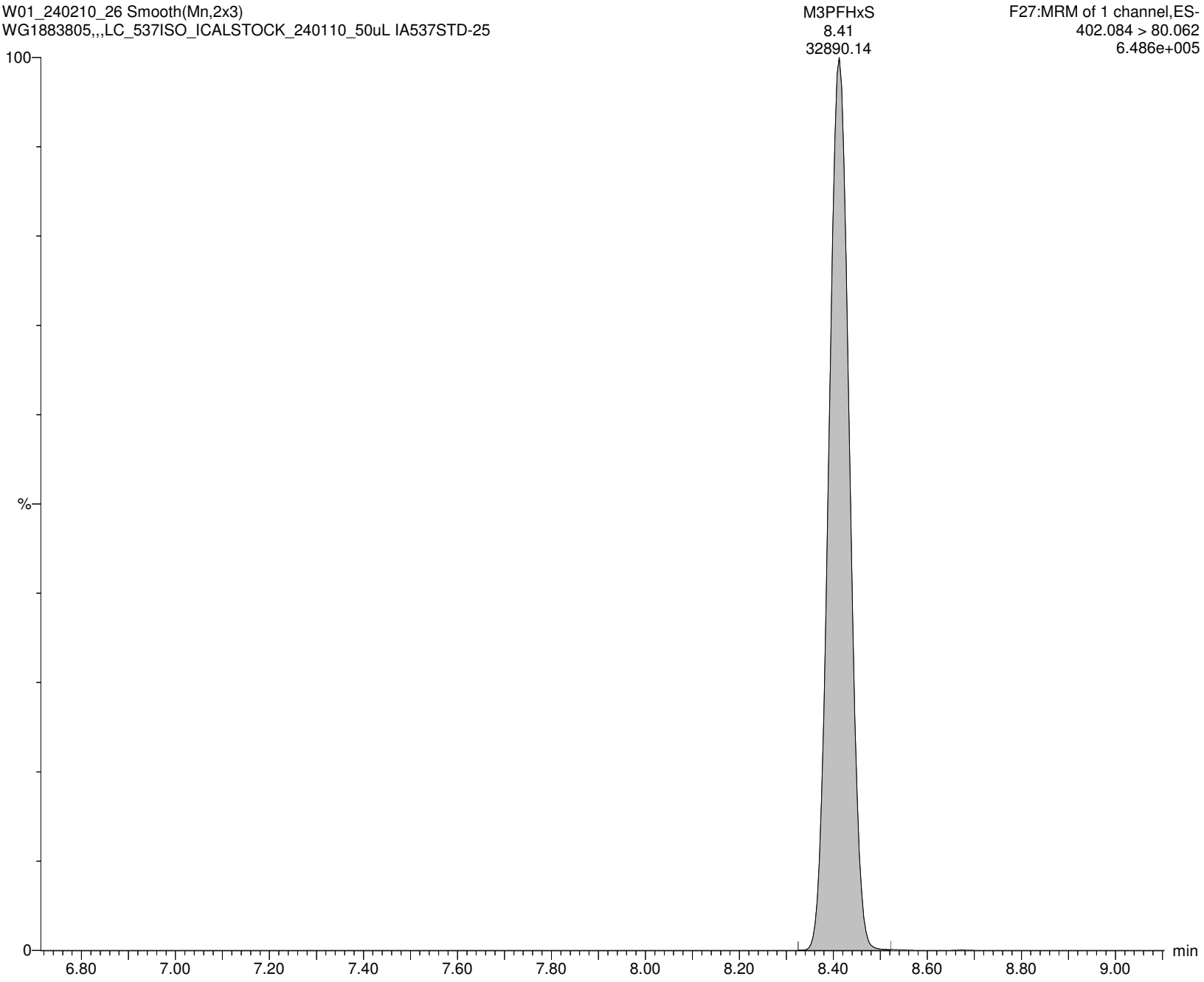

all concentration units in (ng/mL)

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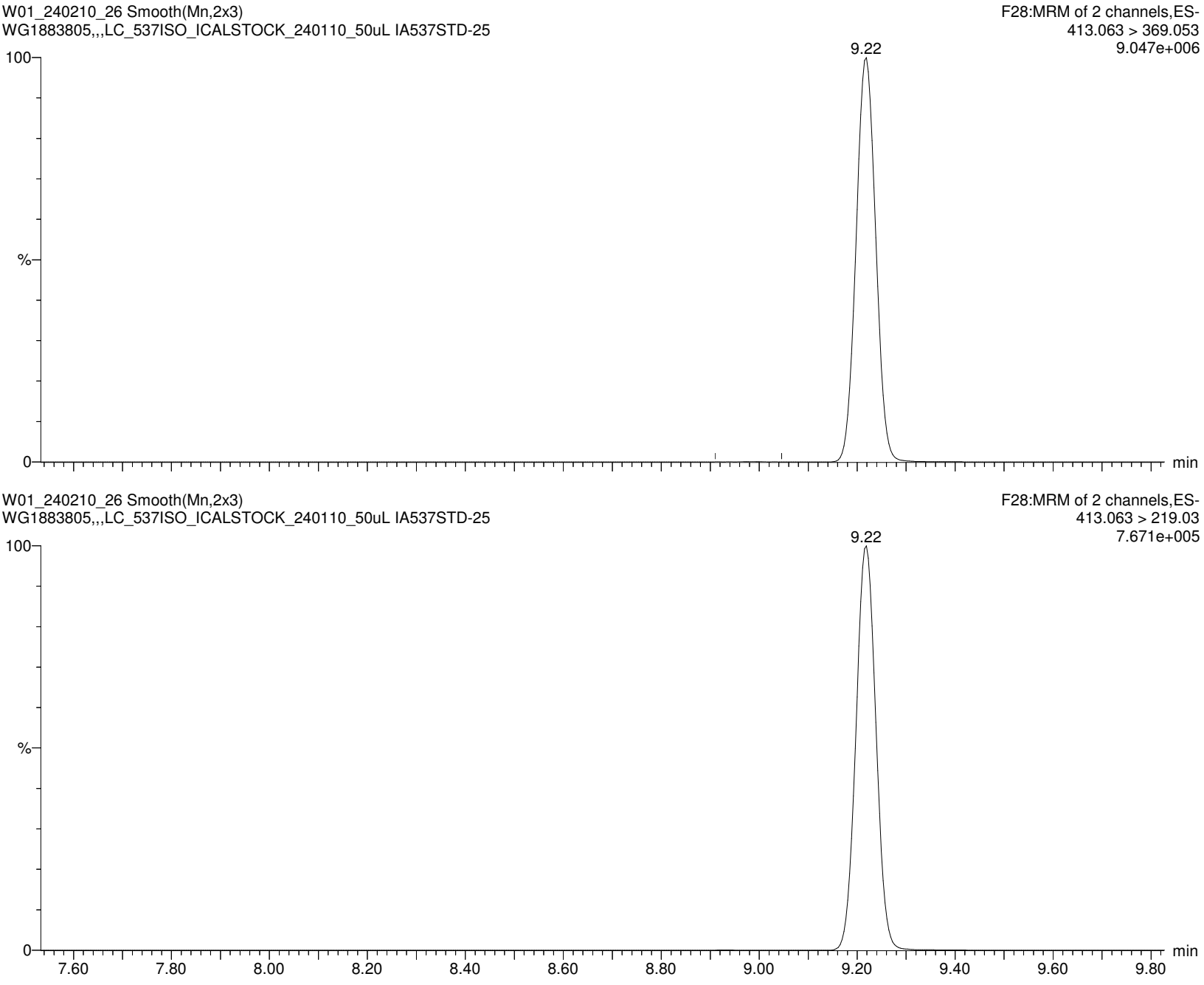

all concentration units in (ng/mL)

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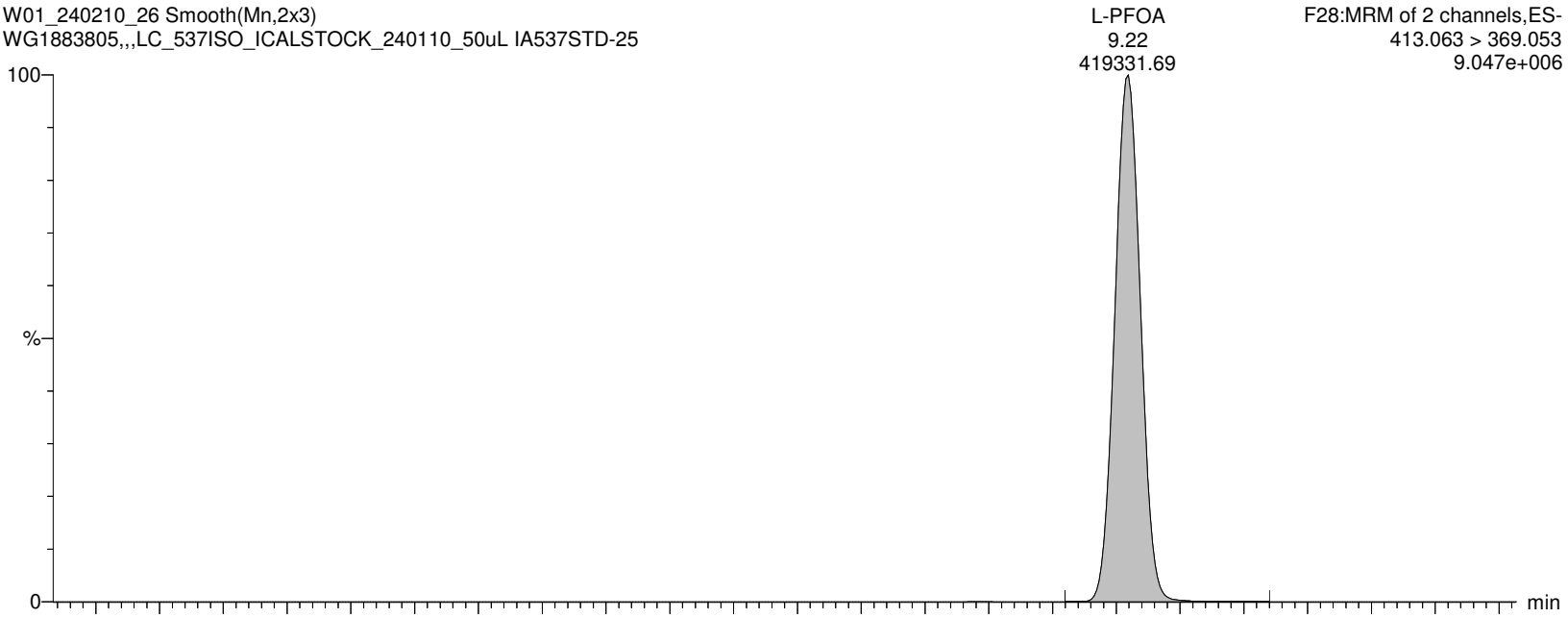

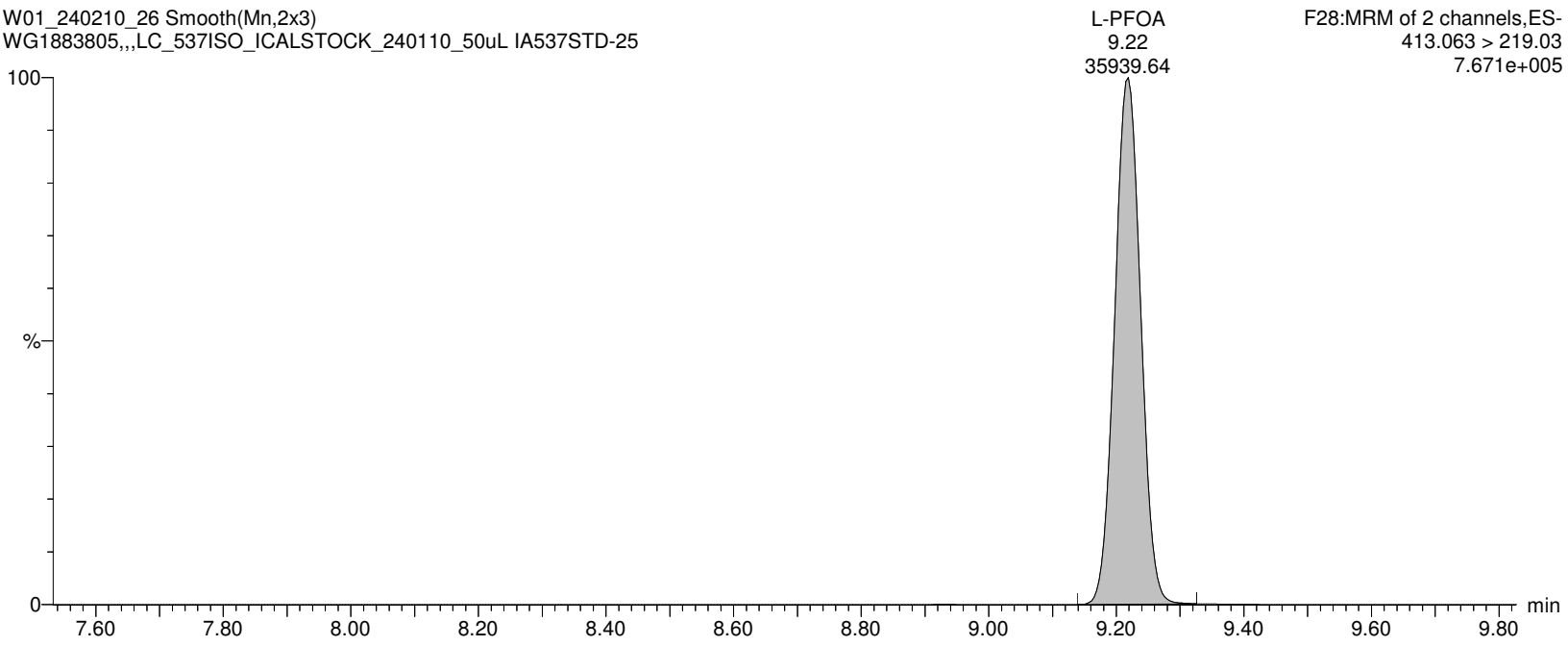

all concentration units in (ng/mL)

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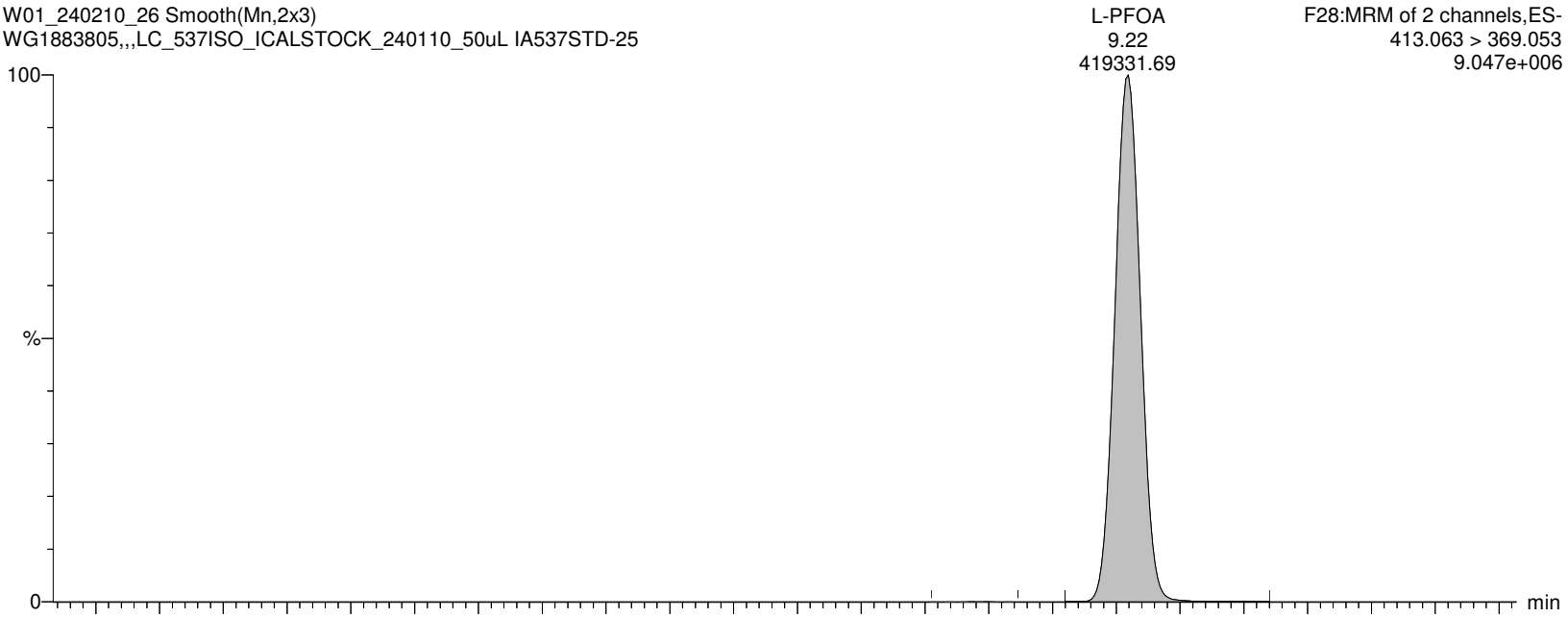

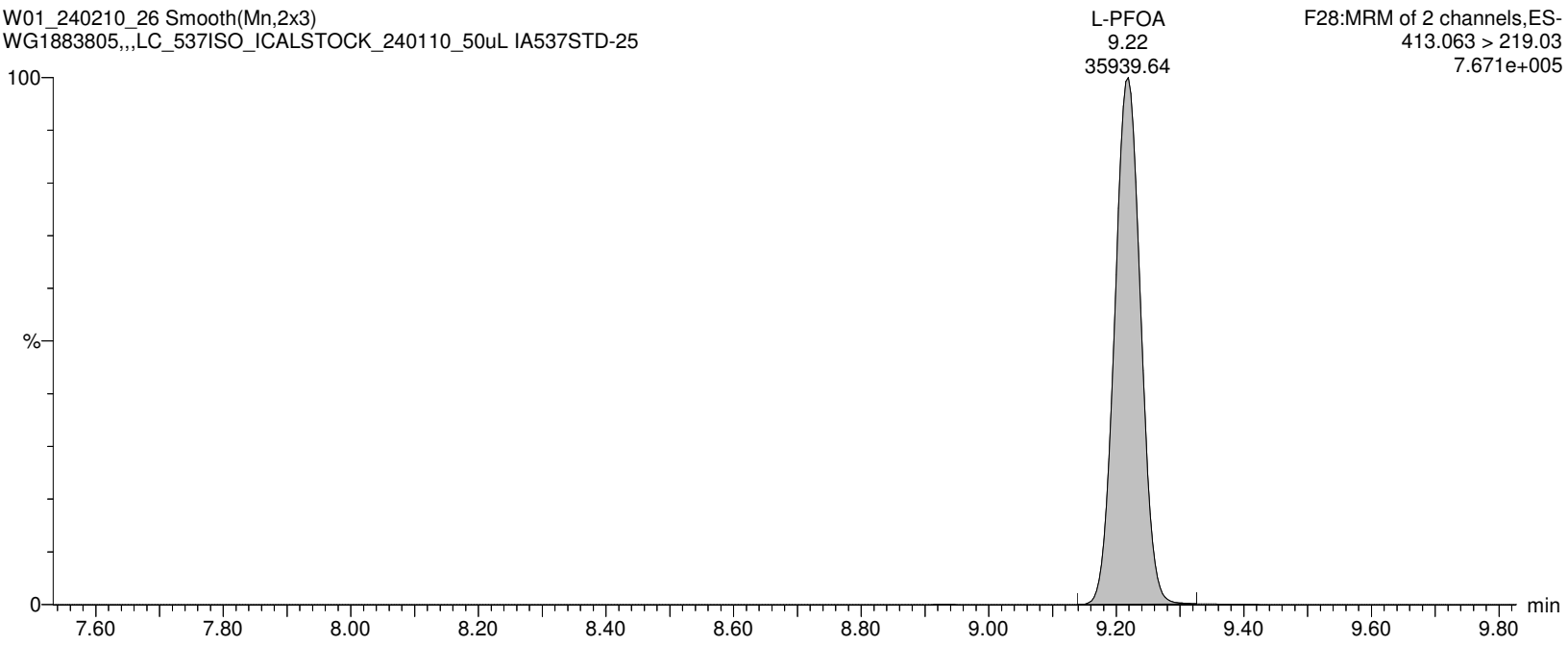

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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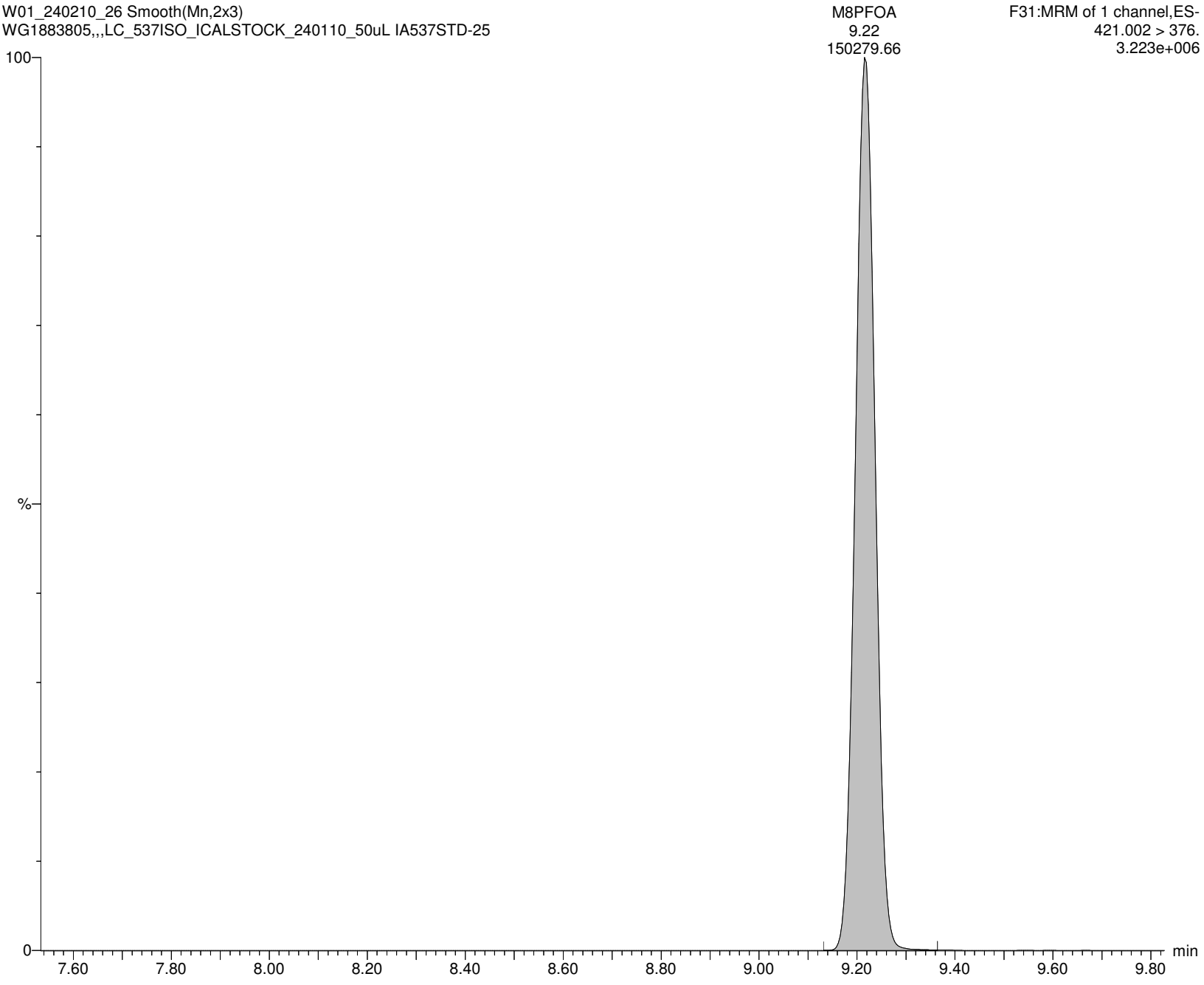

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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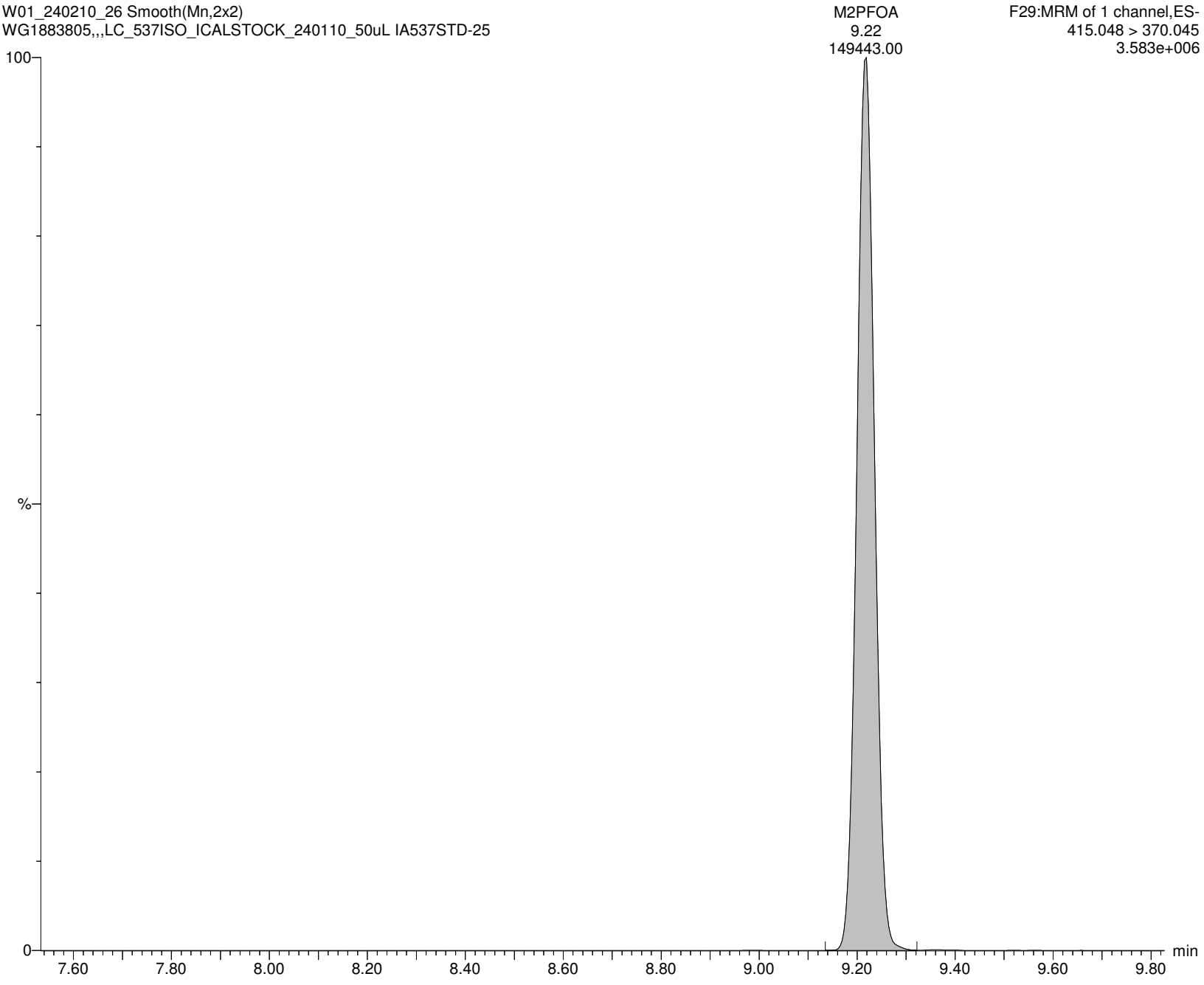

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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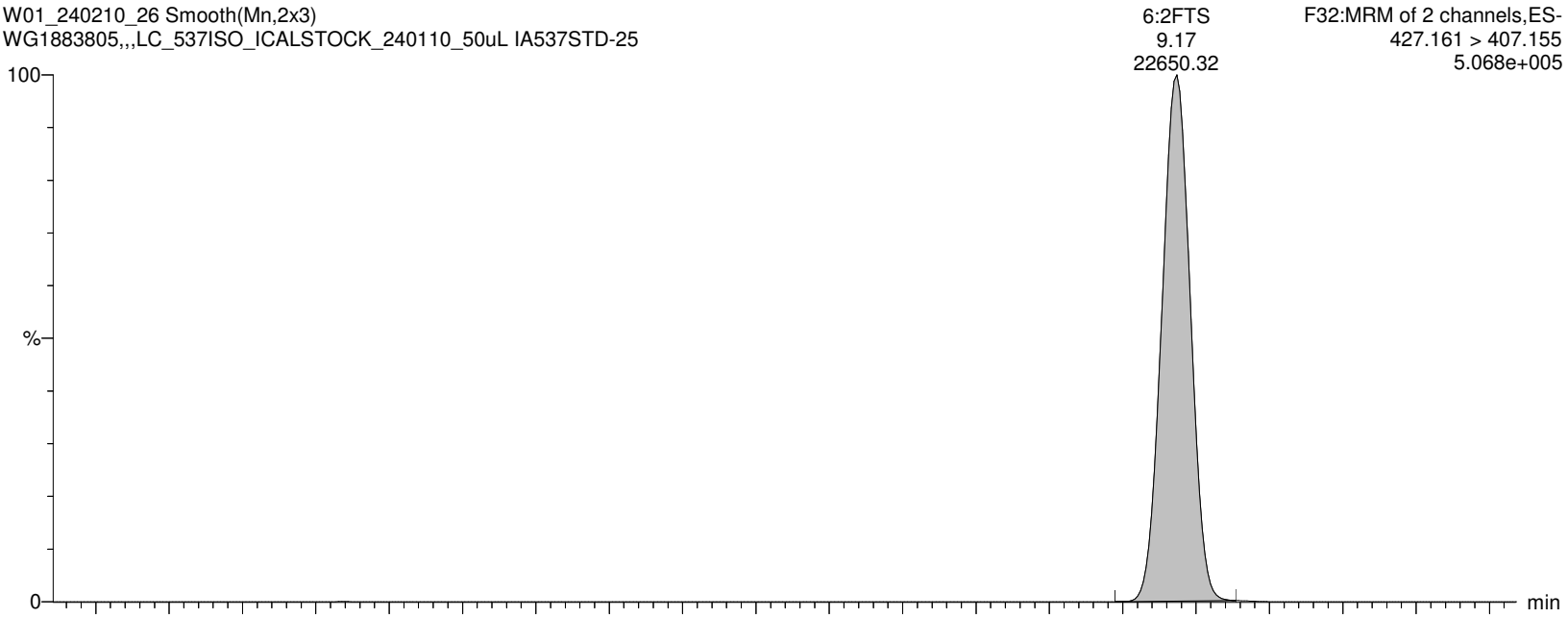

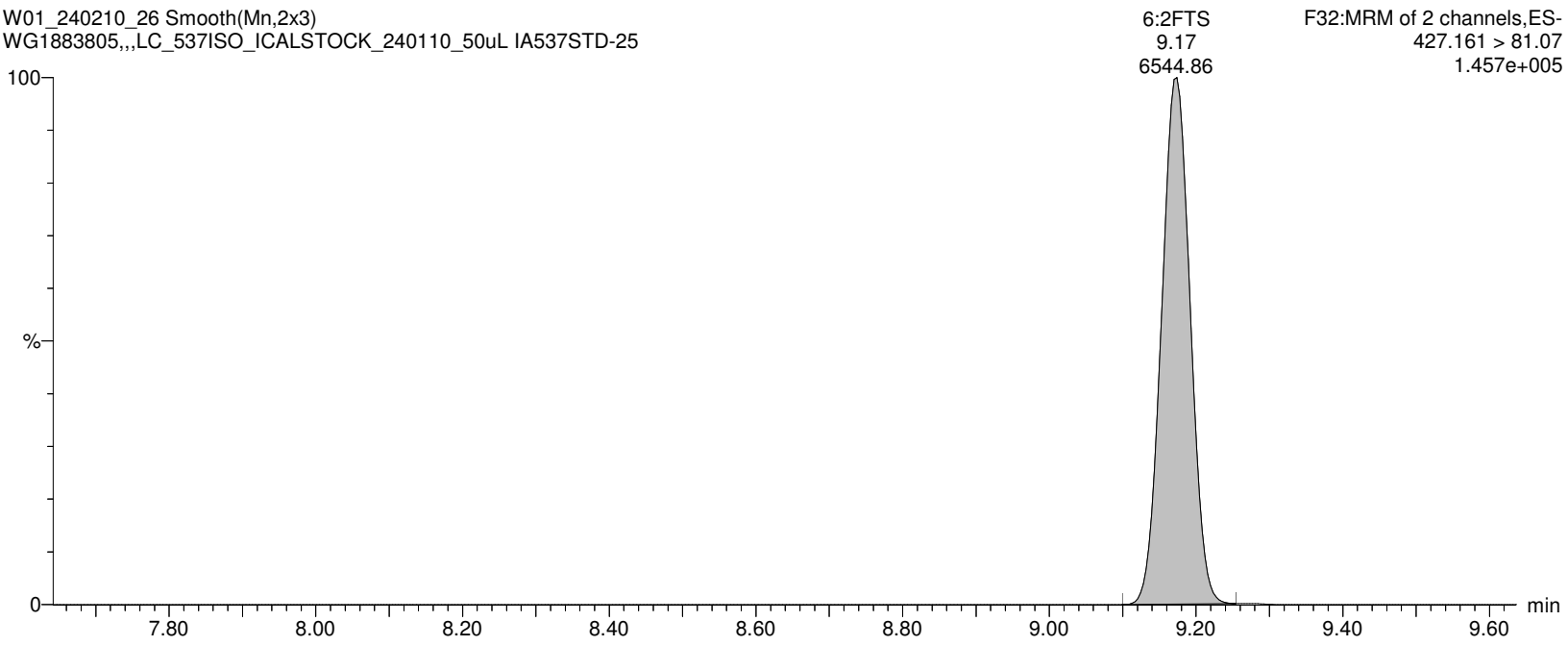

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,6
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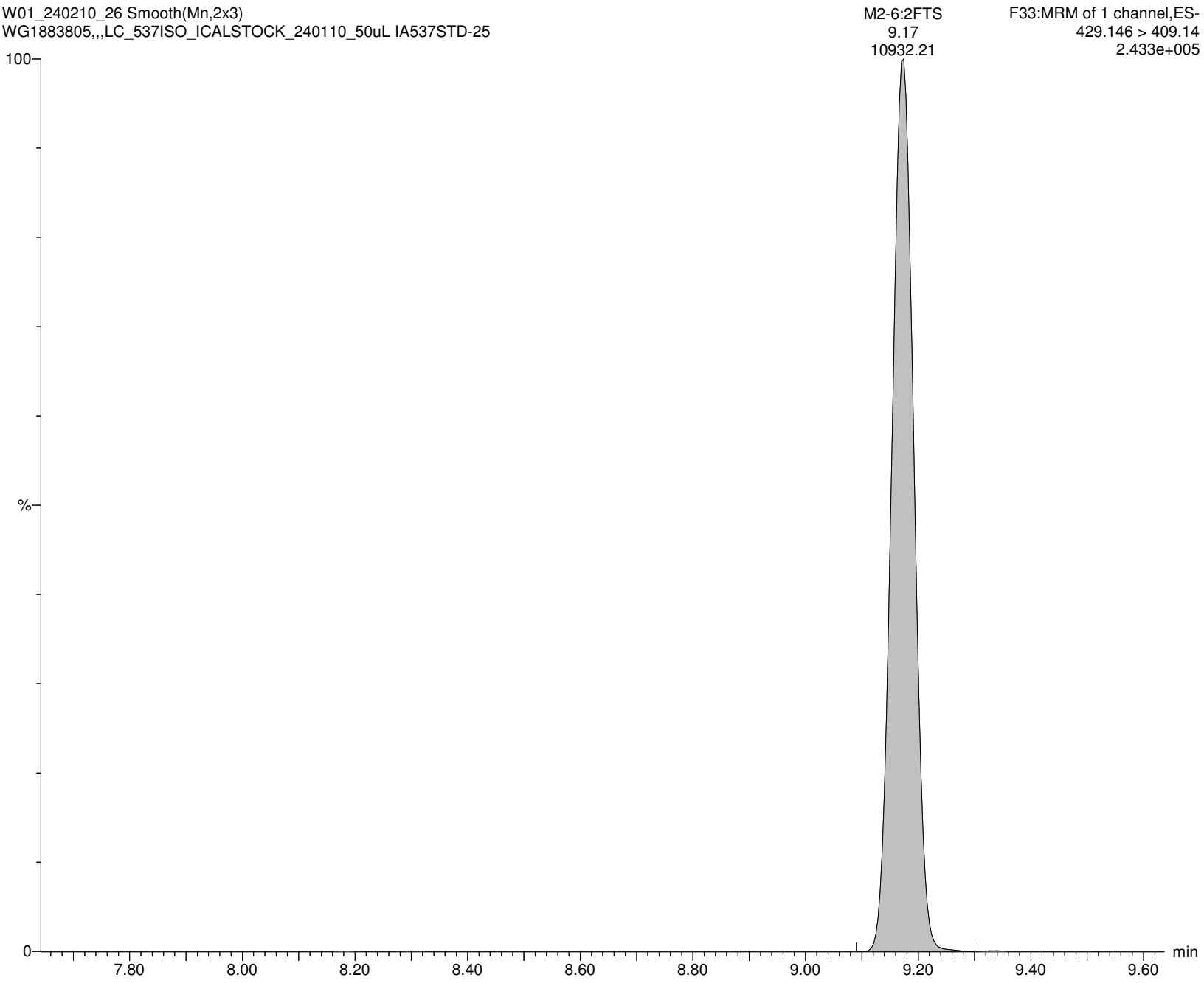

all concentration units in (ng/mL)

Alpha Analytical Inc.
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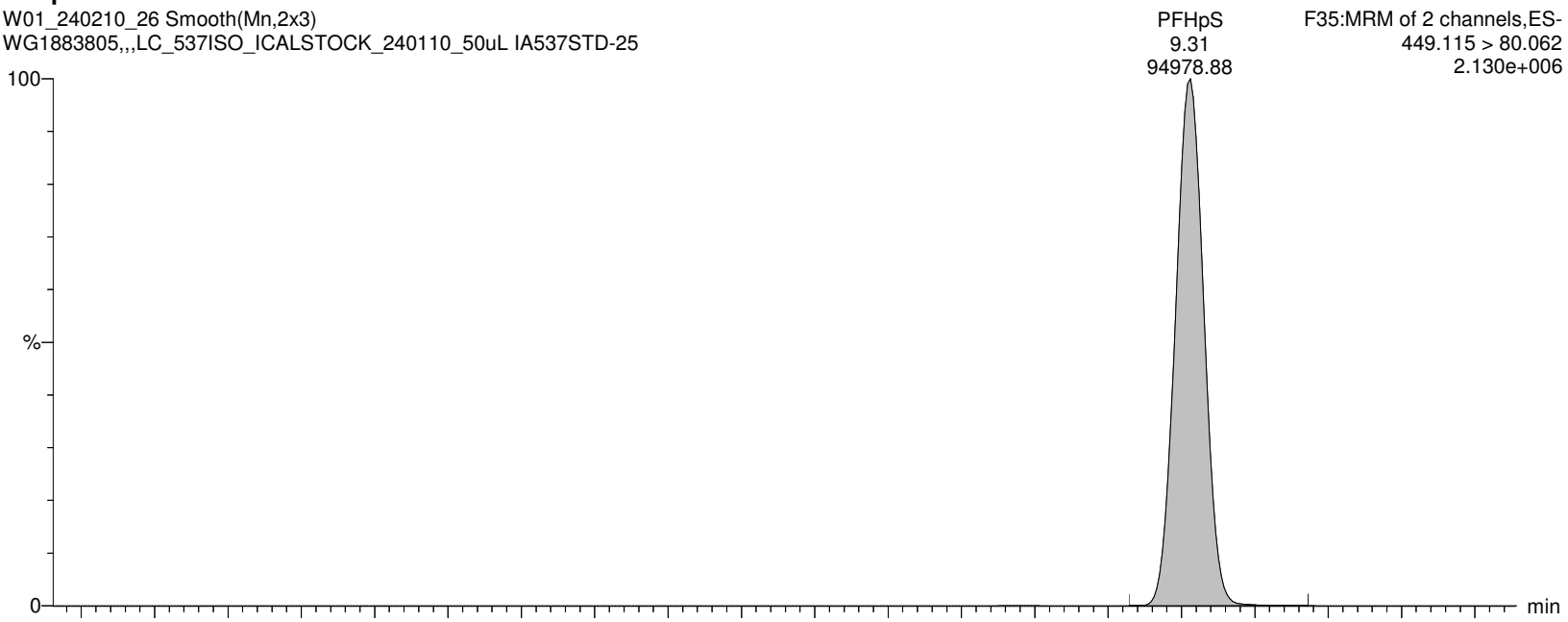

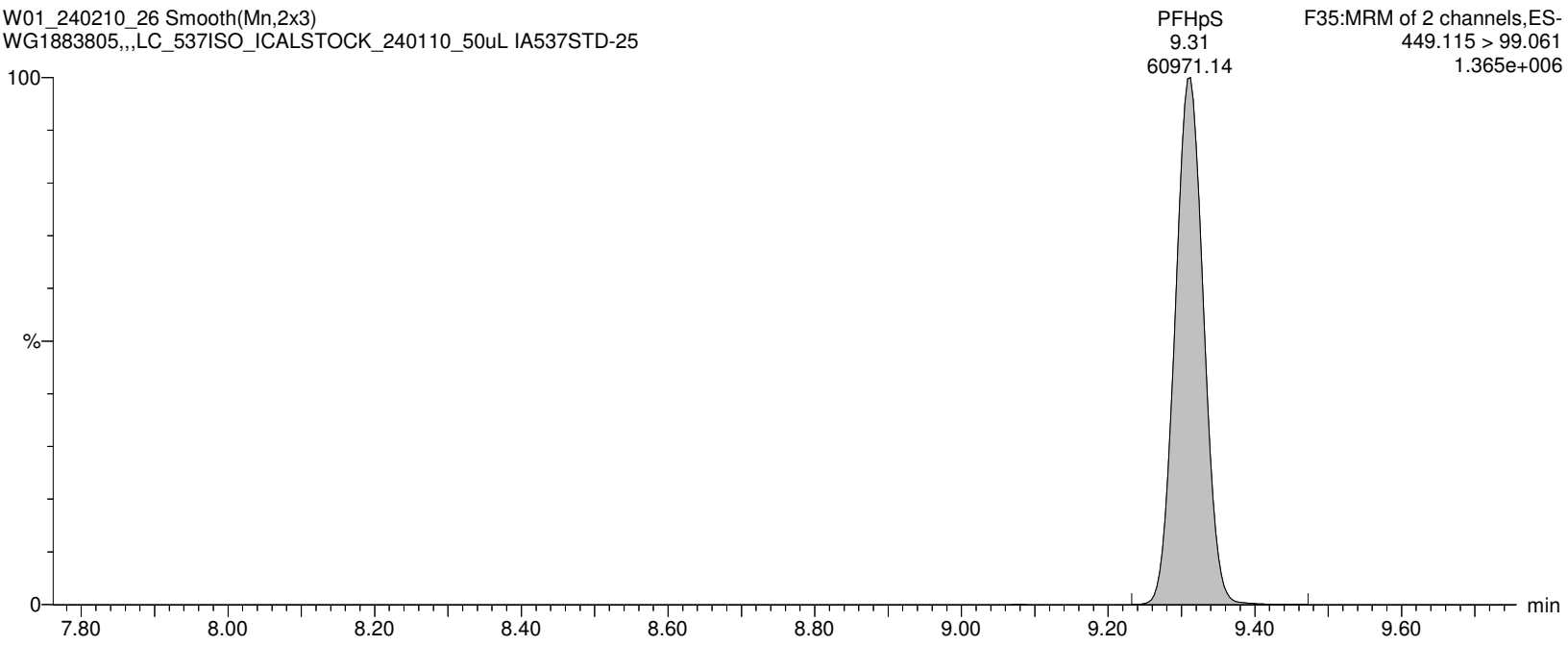

all concentration units in (ng/mL)

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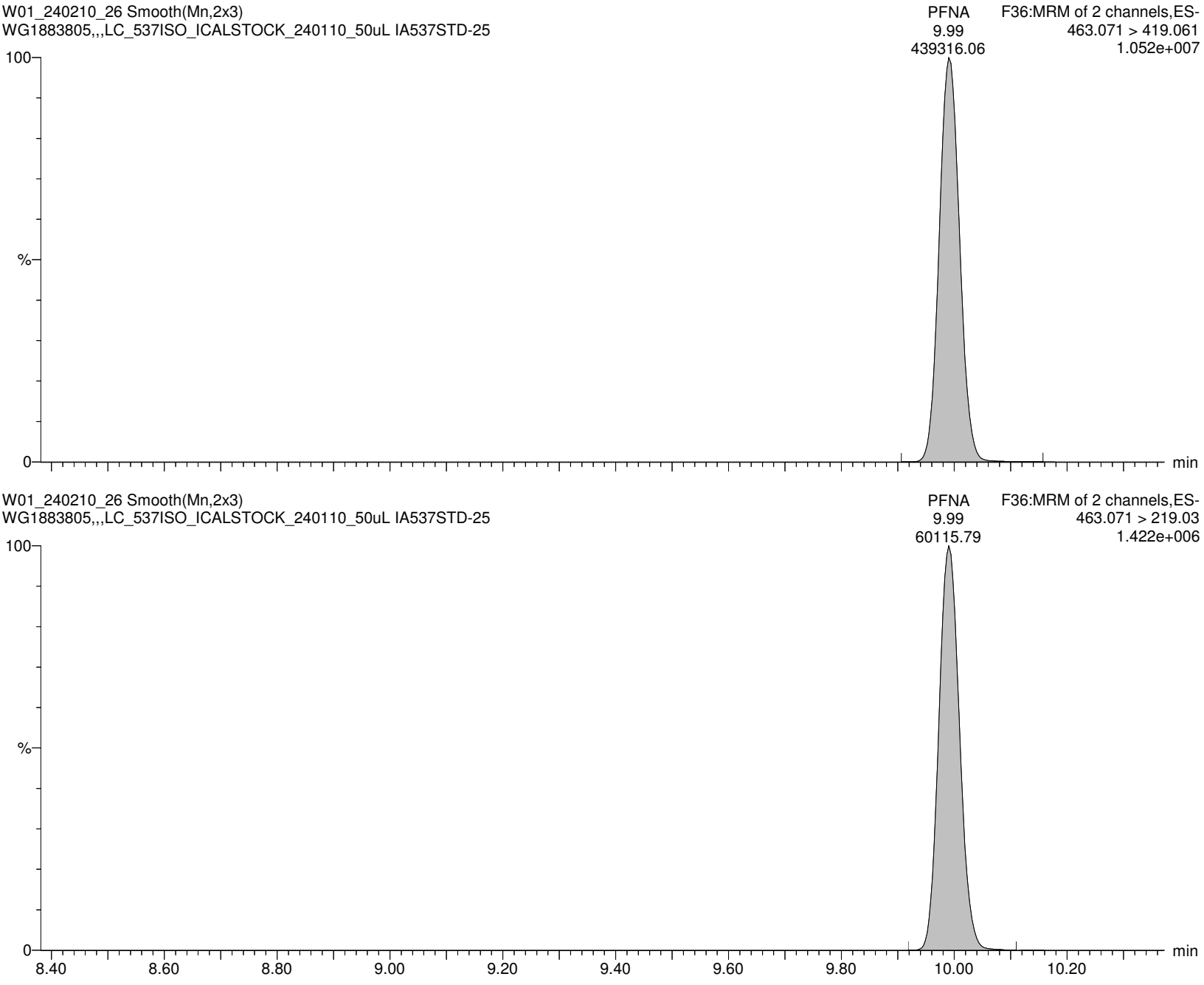

all concentration units in (ng/mL)

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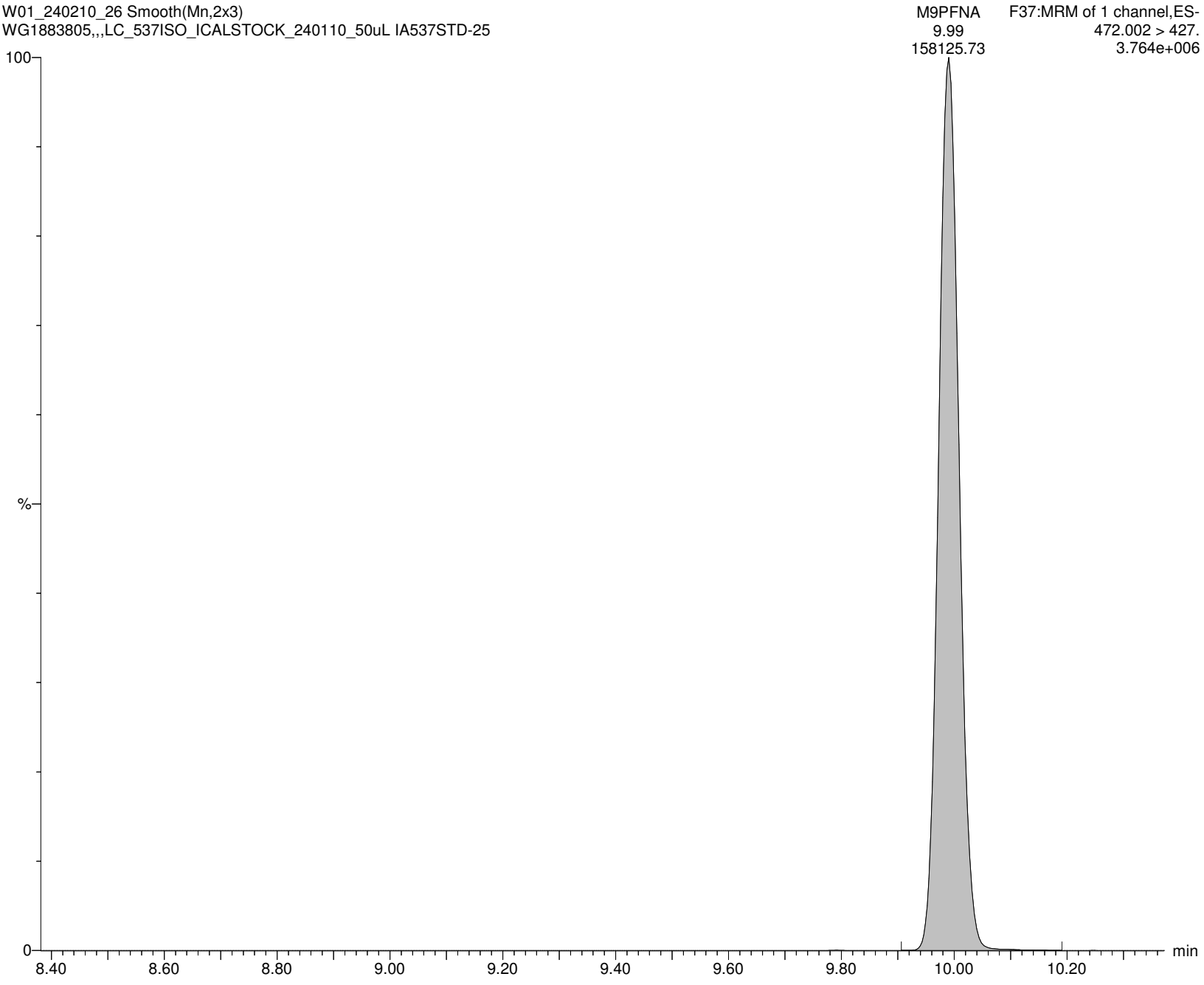

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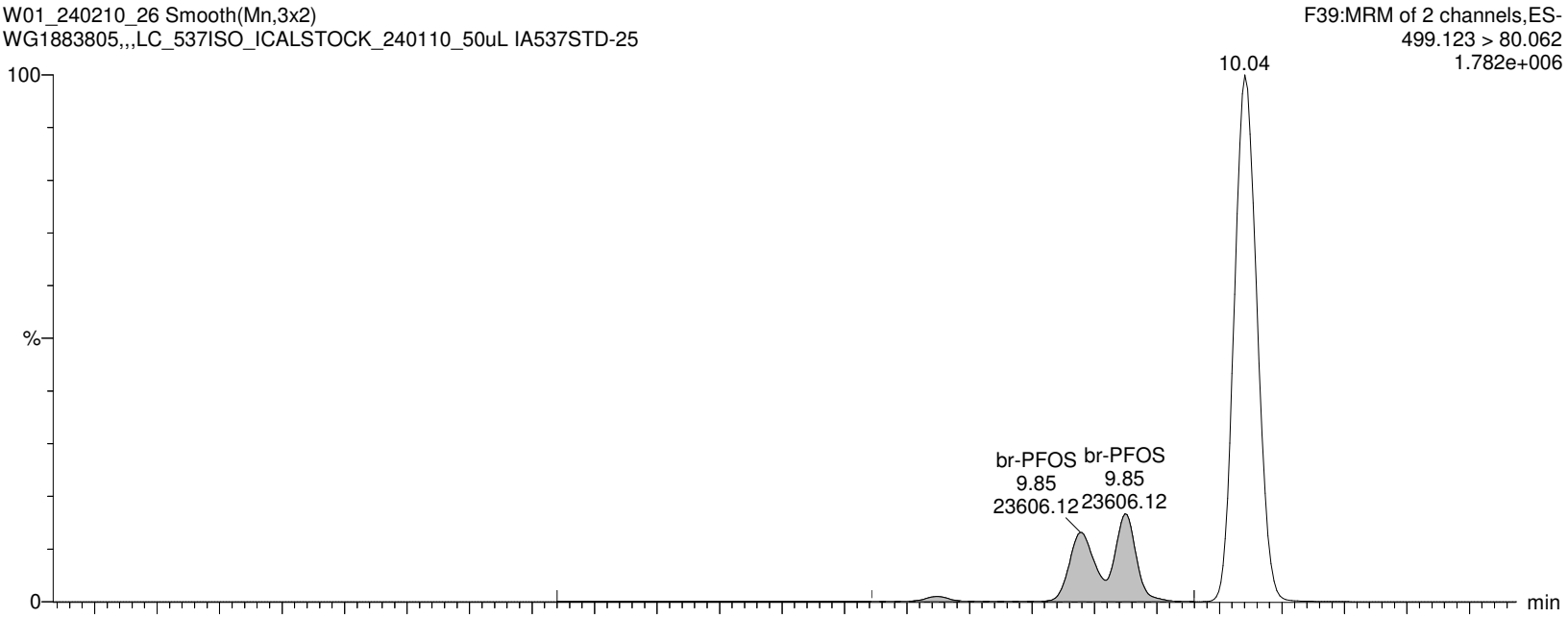

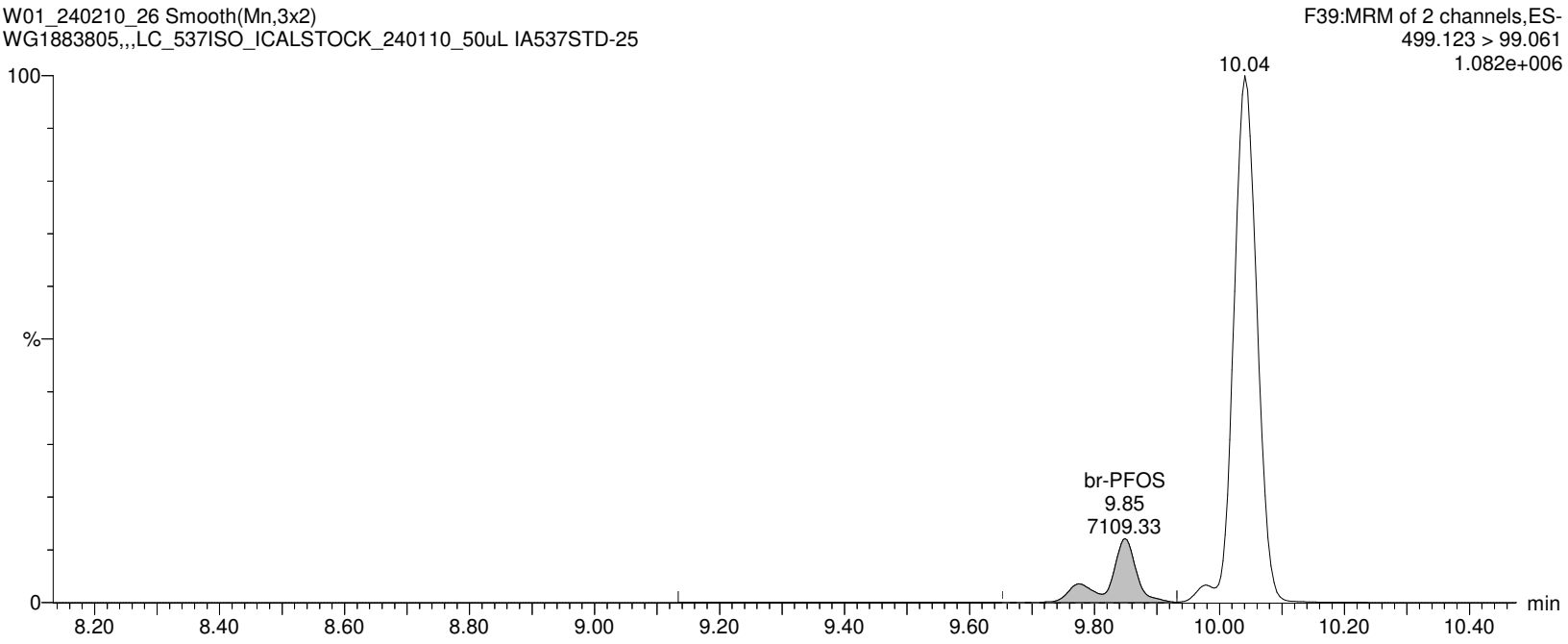

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

Name: W01_240210_26
ID: IA537STD-25
Date: 10-Feb-2024
Time: 17:36:15
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User: LCMS01:SG
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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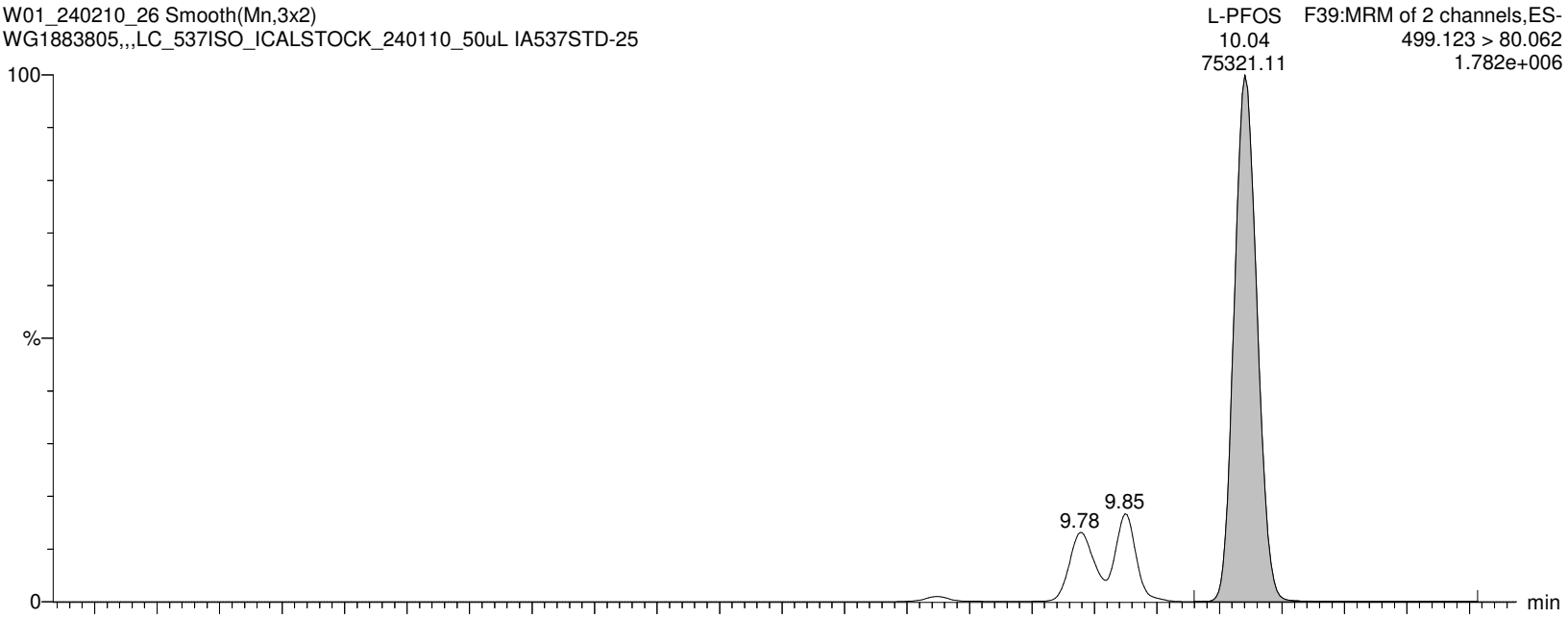
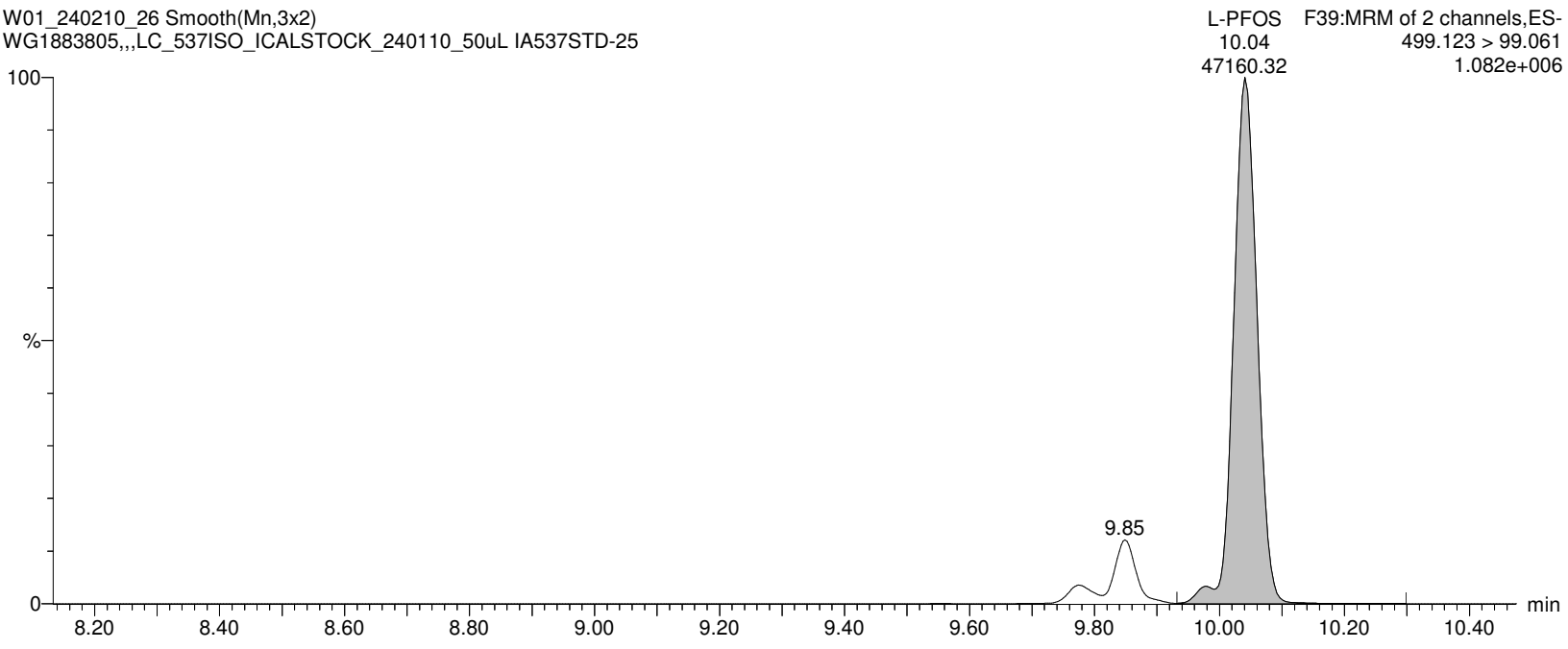
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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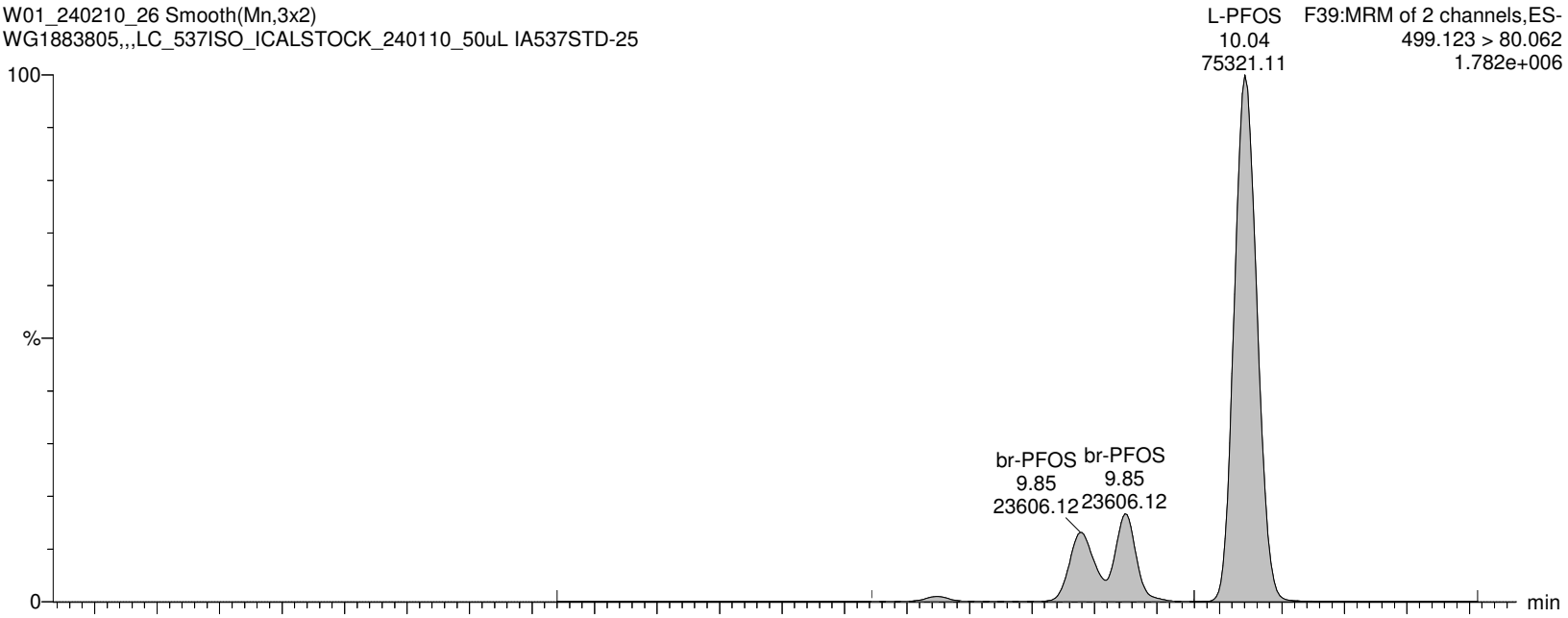

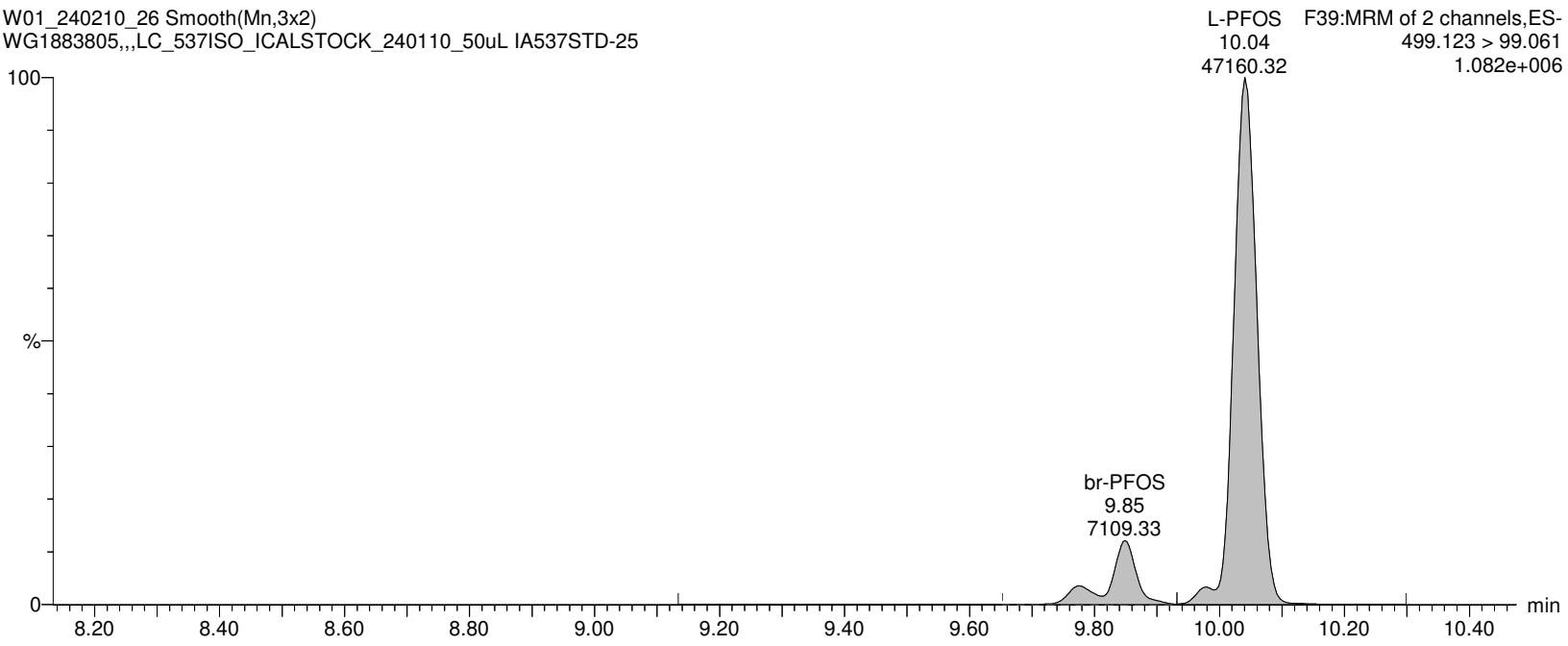

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,6
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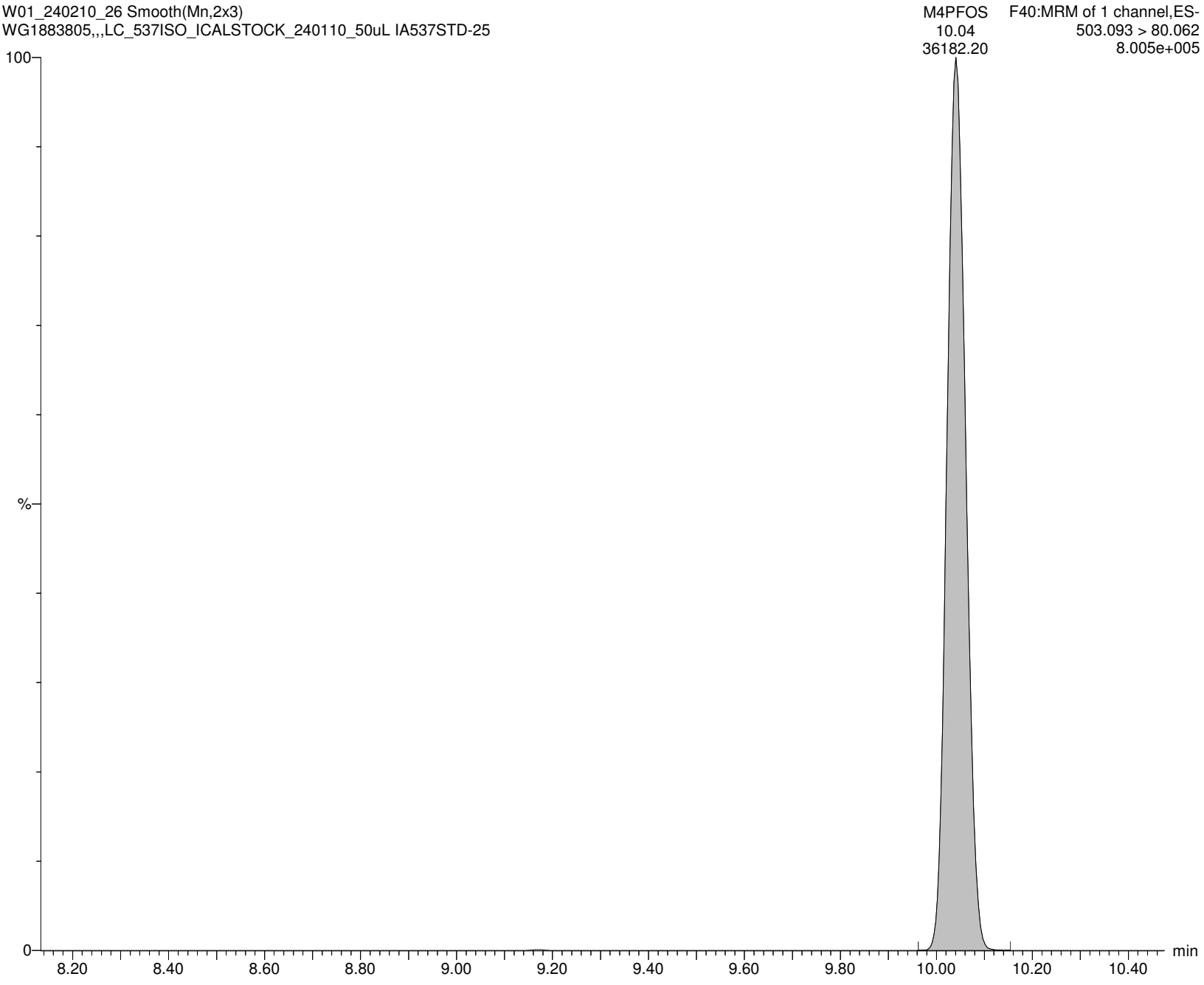

all concentration units in (ng/mL)

Alpha Analytical Inc.
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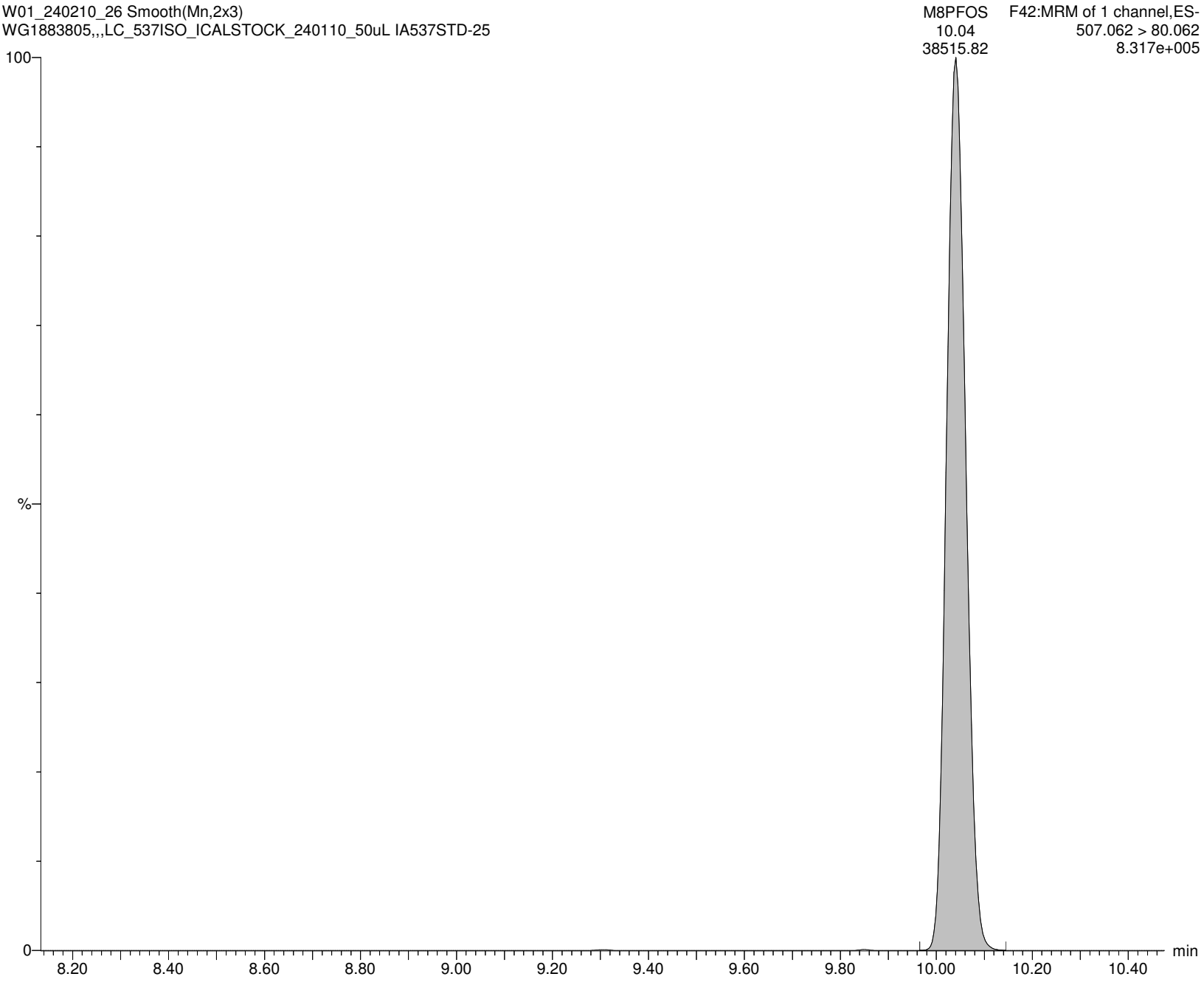

all concentration units in (ng/mL)

Alpha Analytical Inc.
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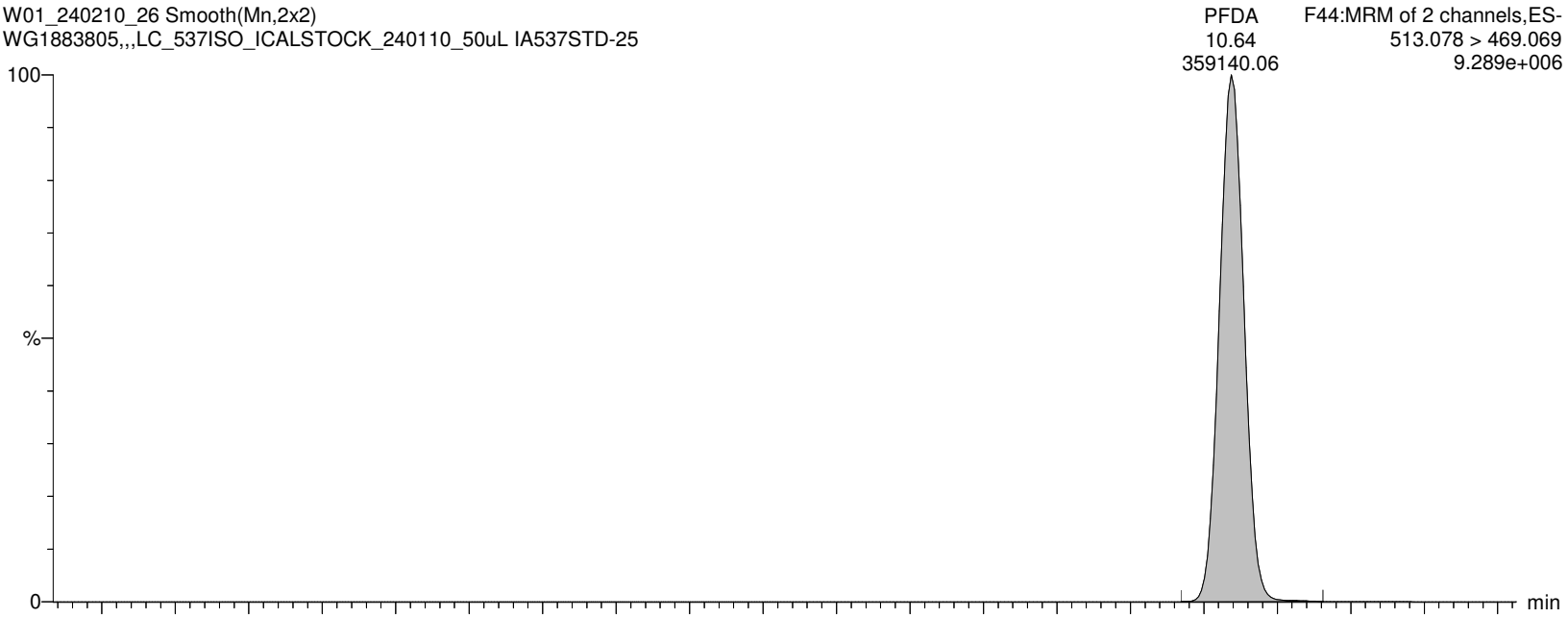
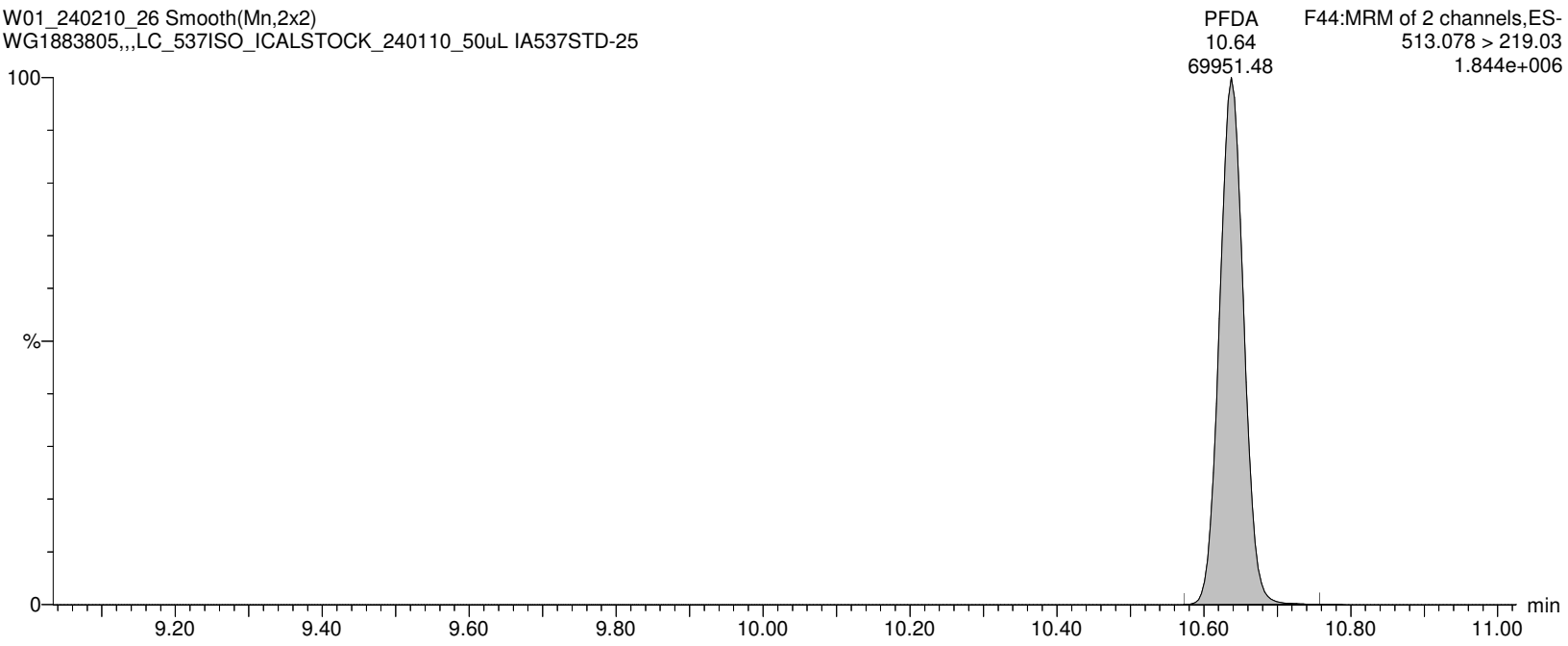
PFDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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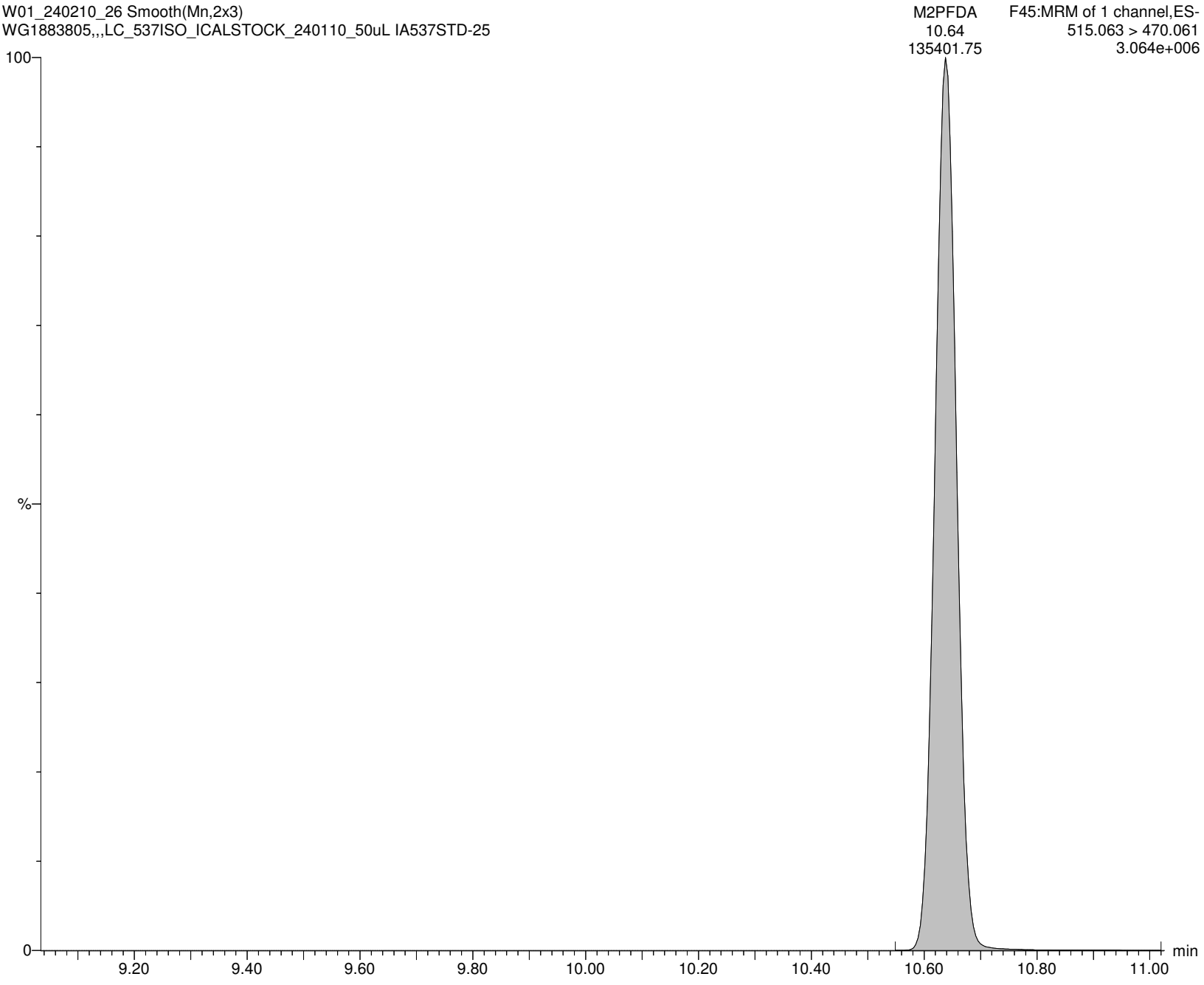

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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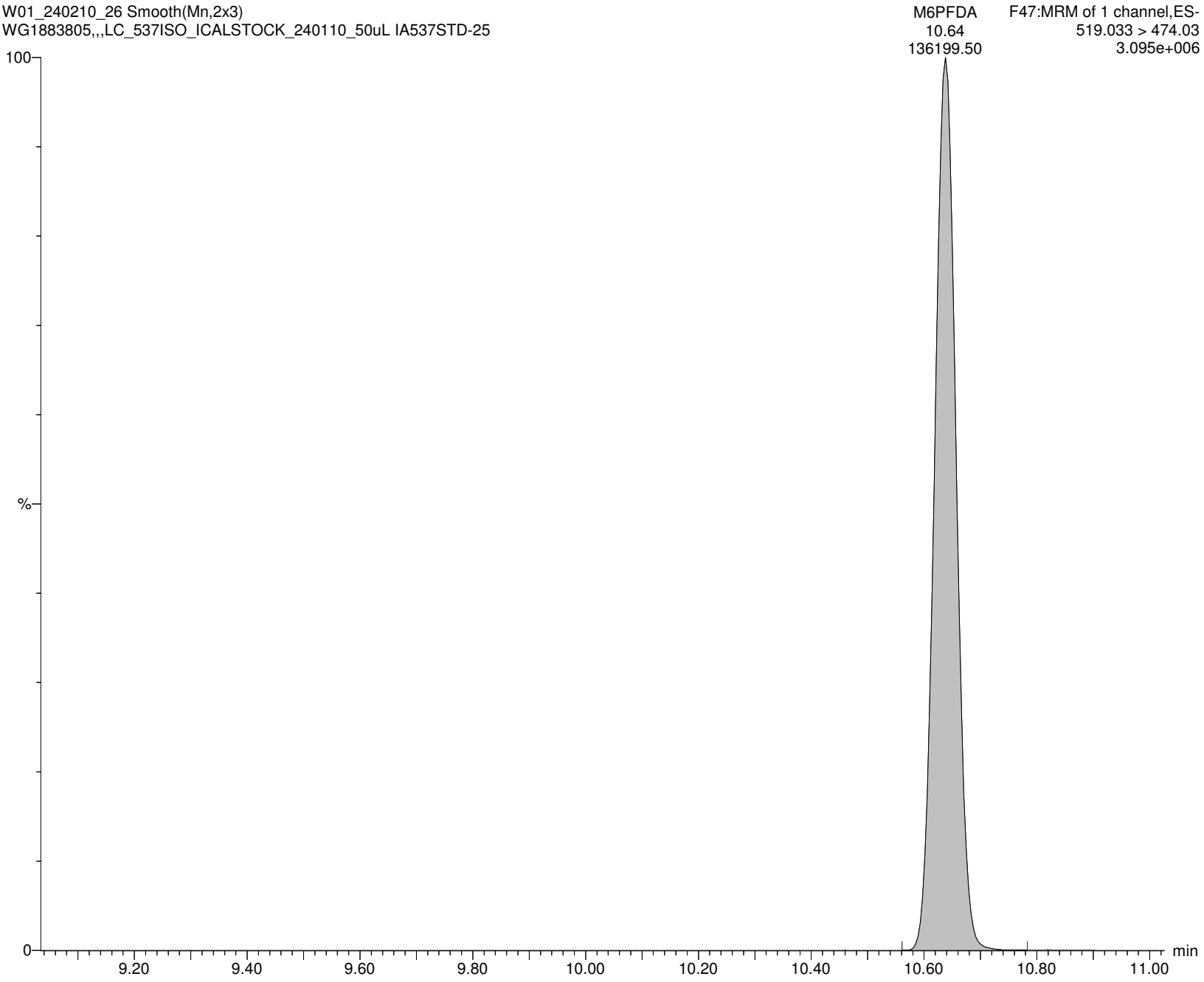

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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Time: 17:36:15
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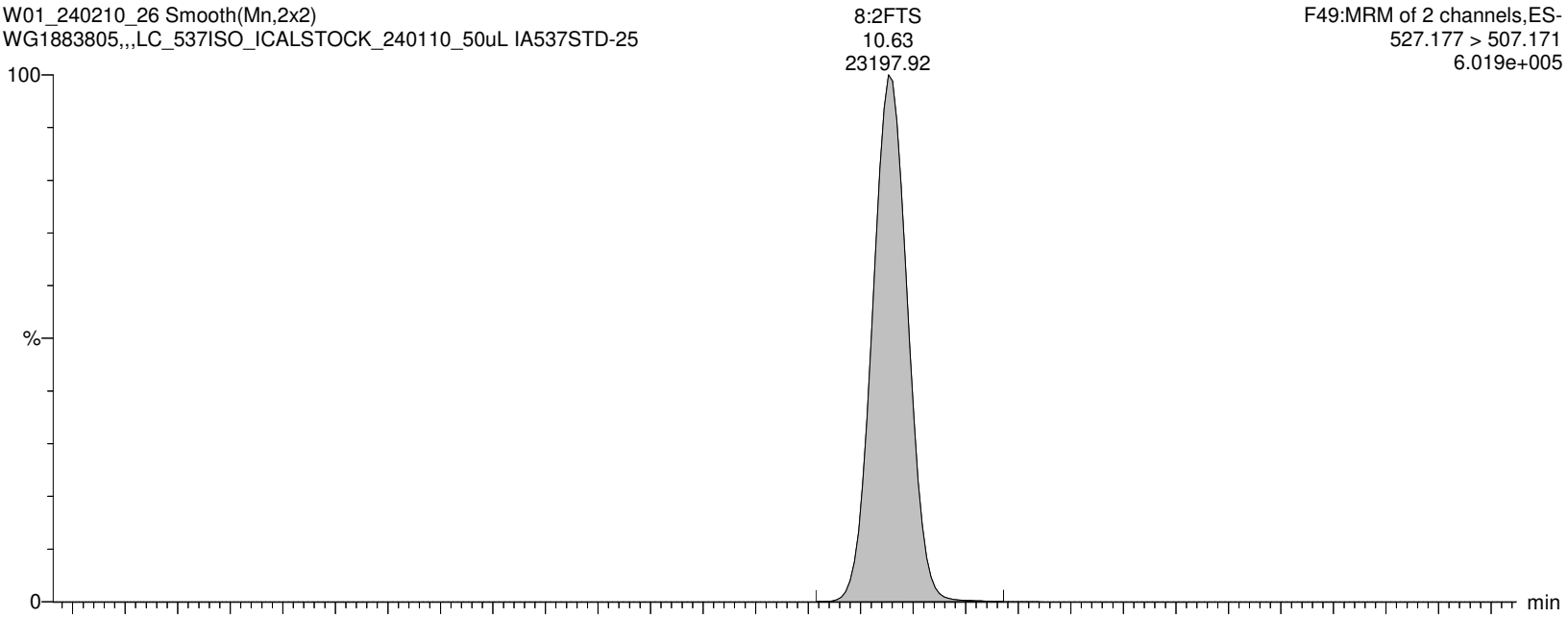

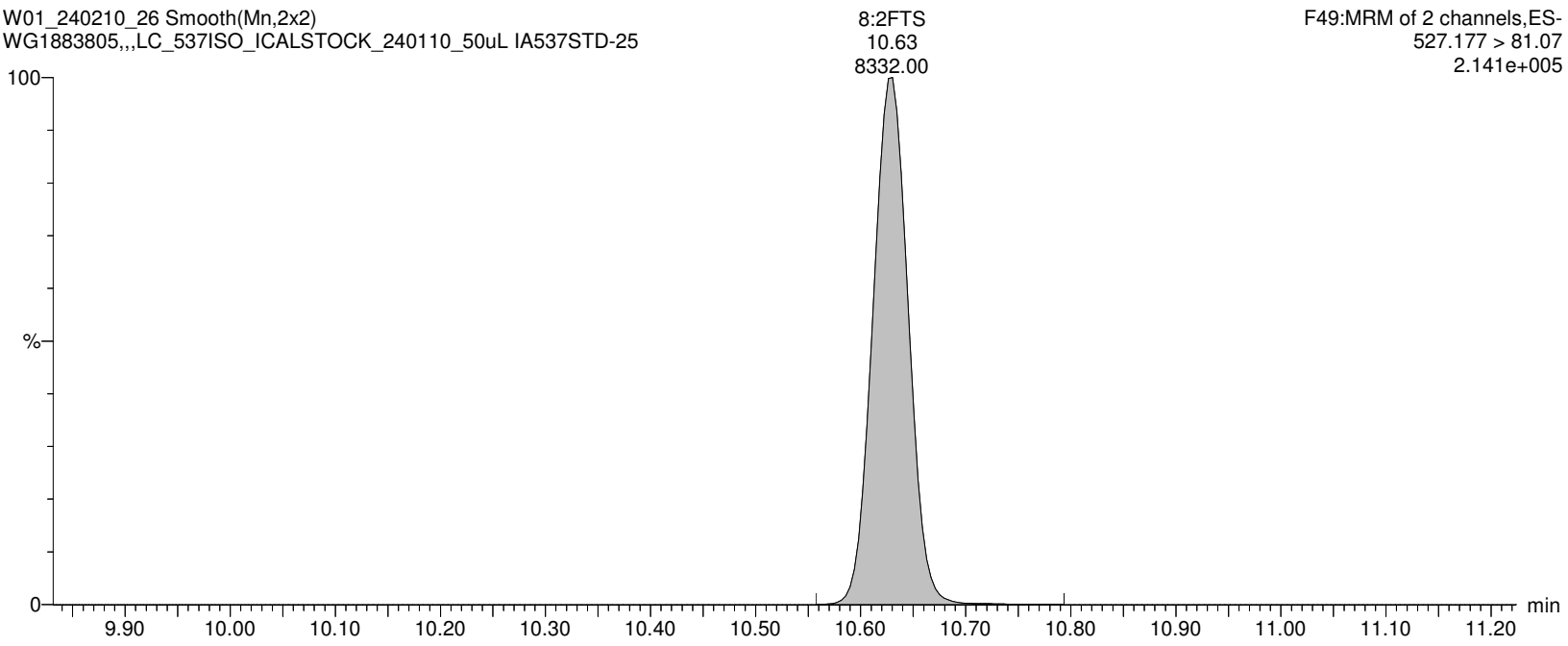

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Date: 10-Feb-2024
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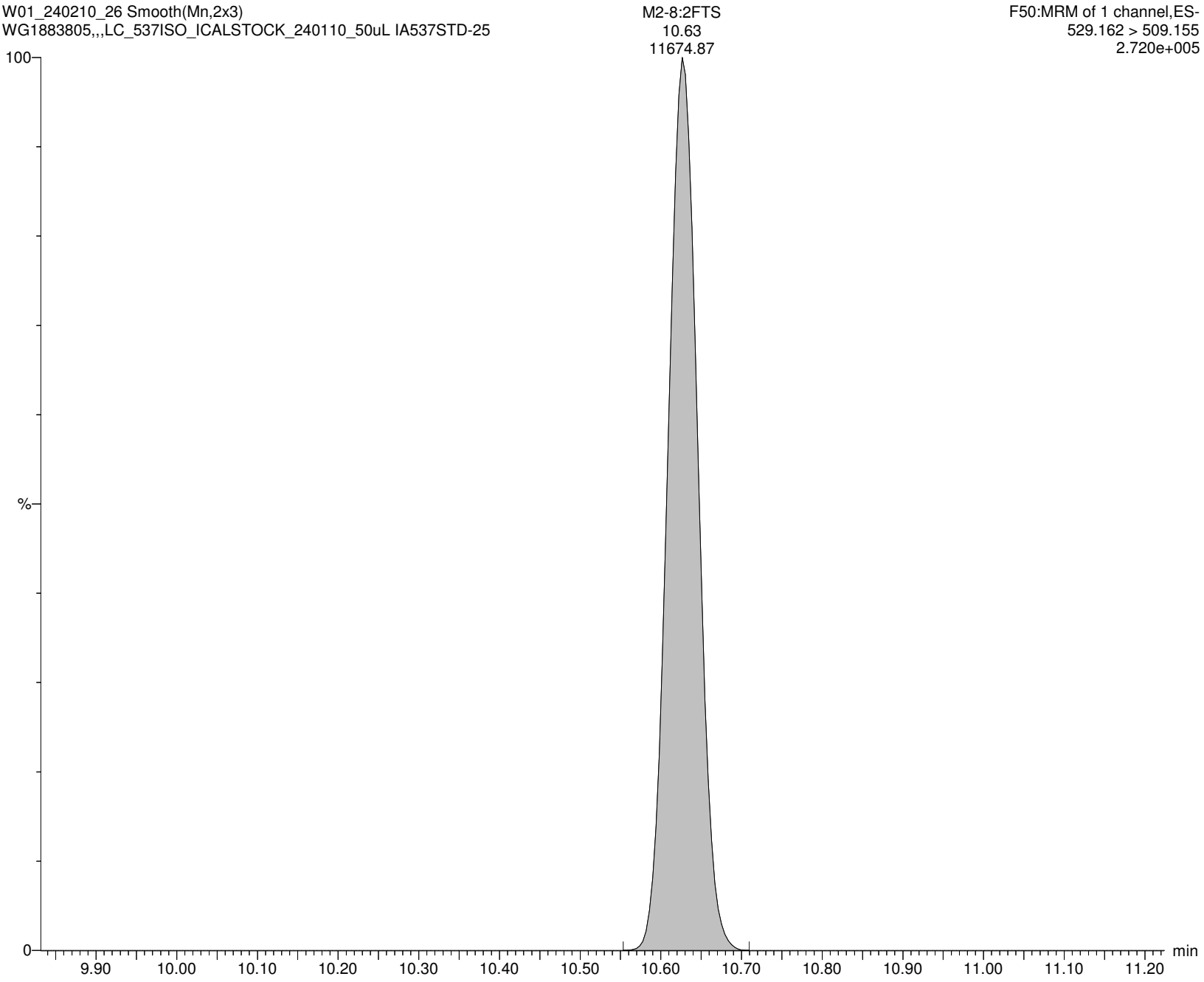

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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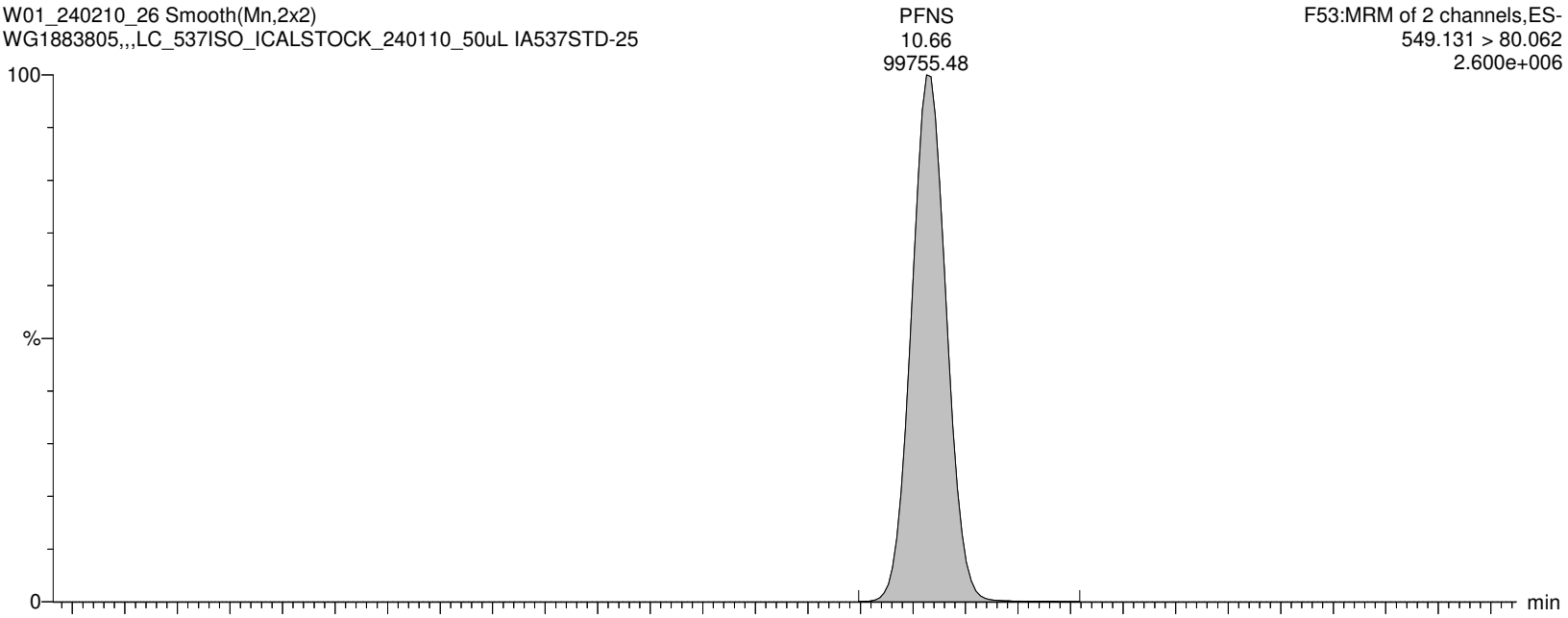
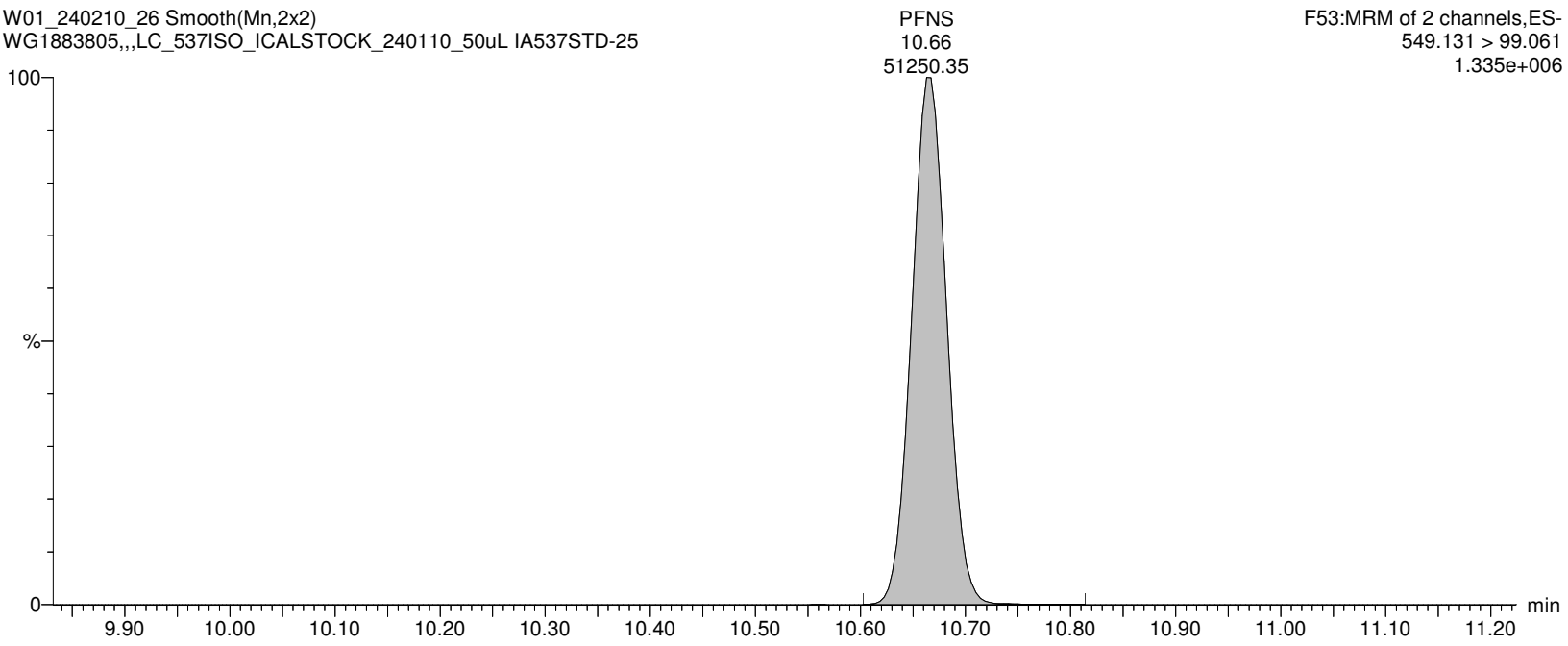
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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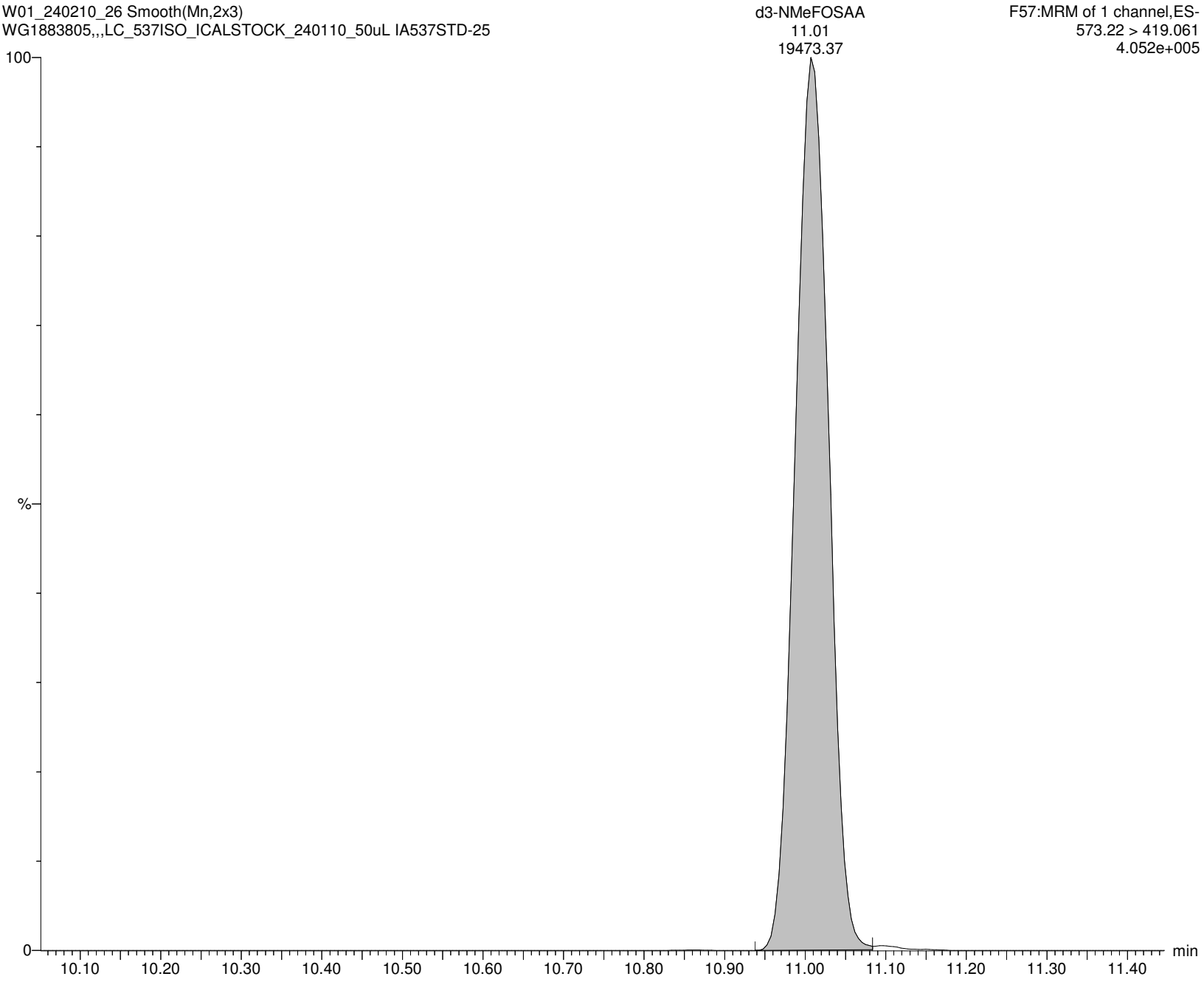
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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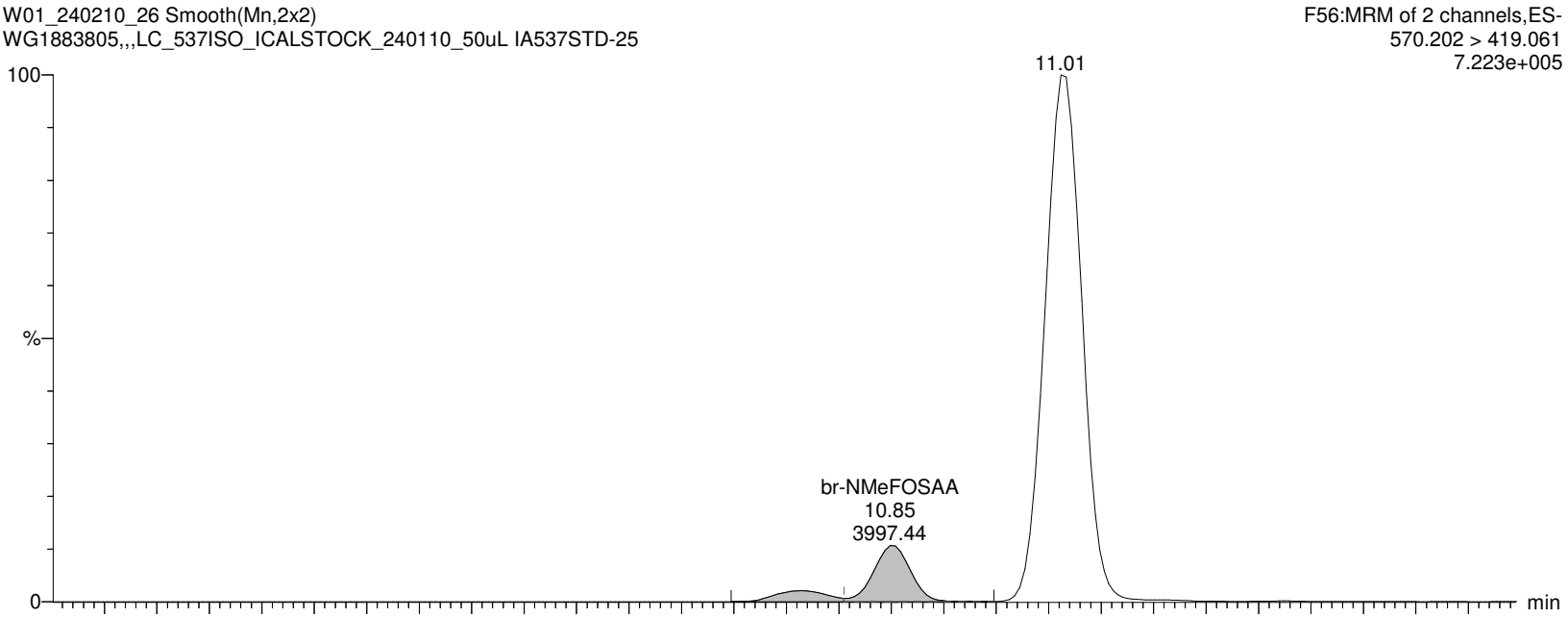
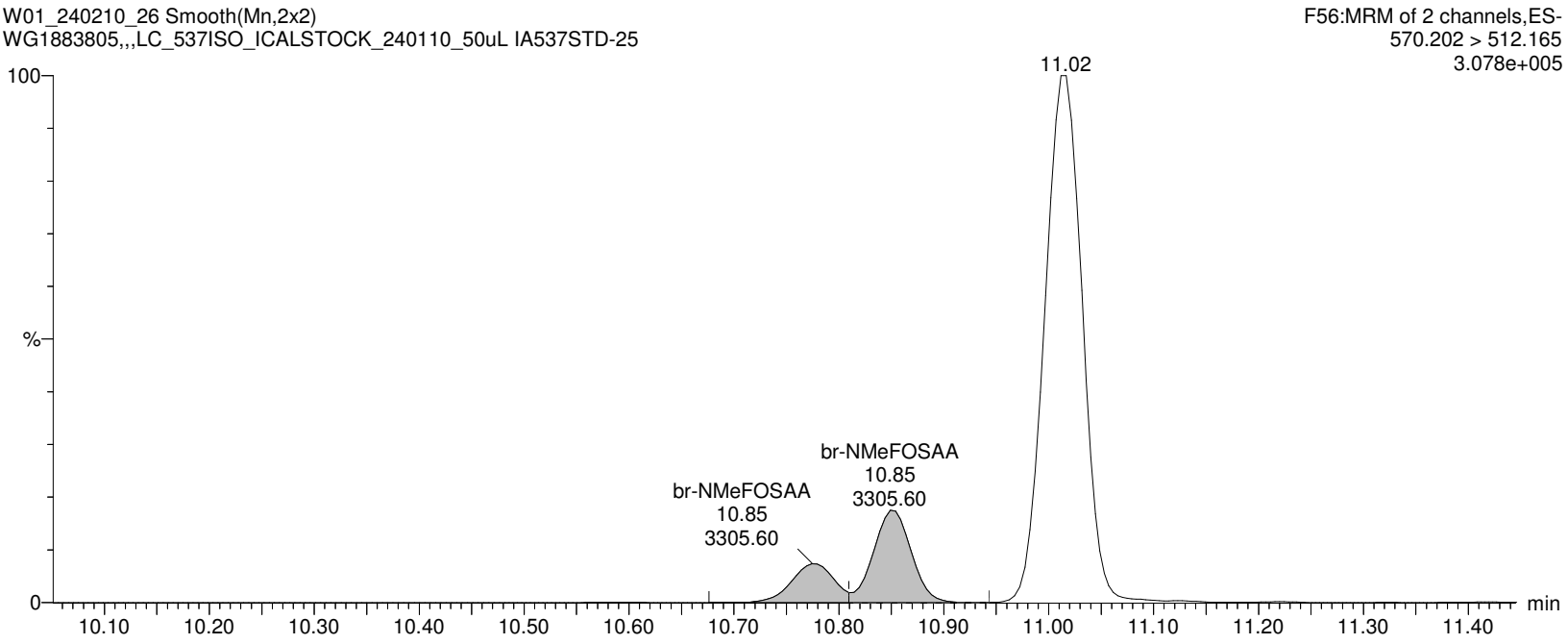
br-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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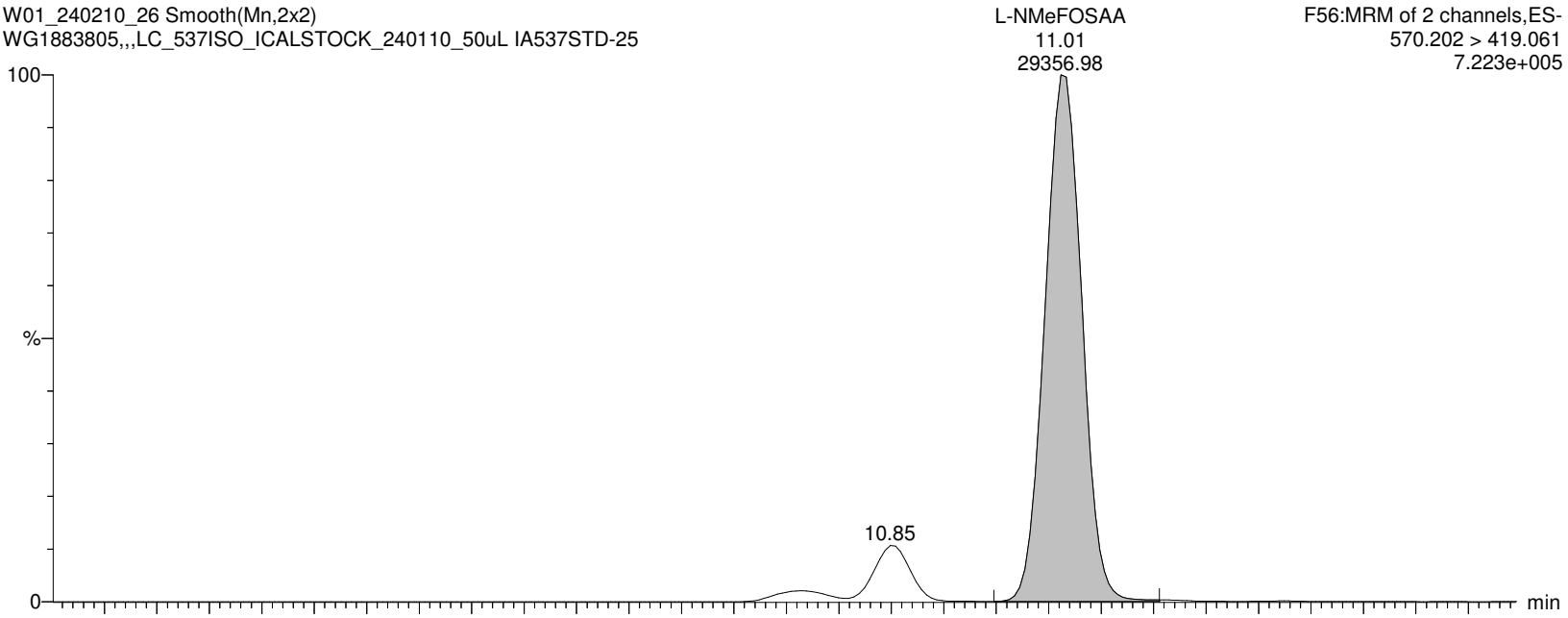

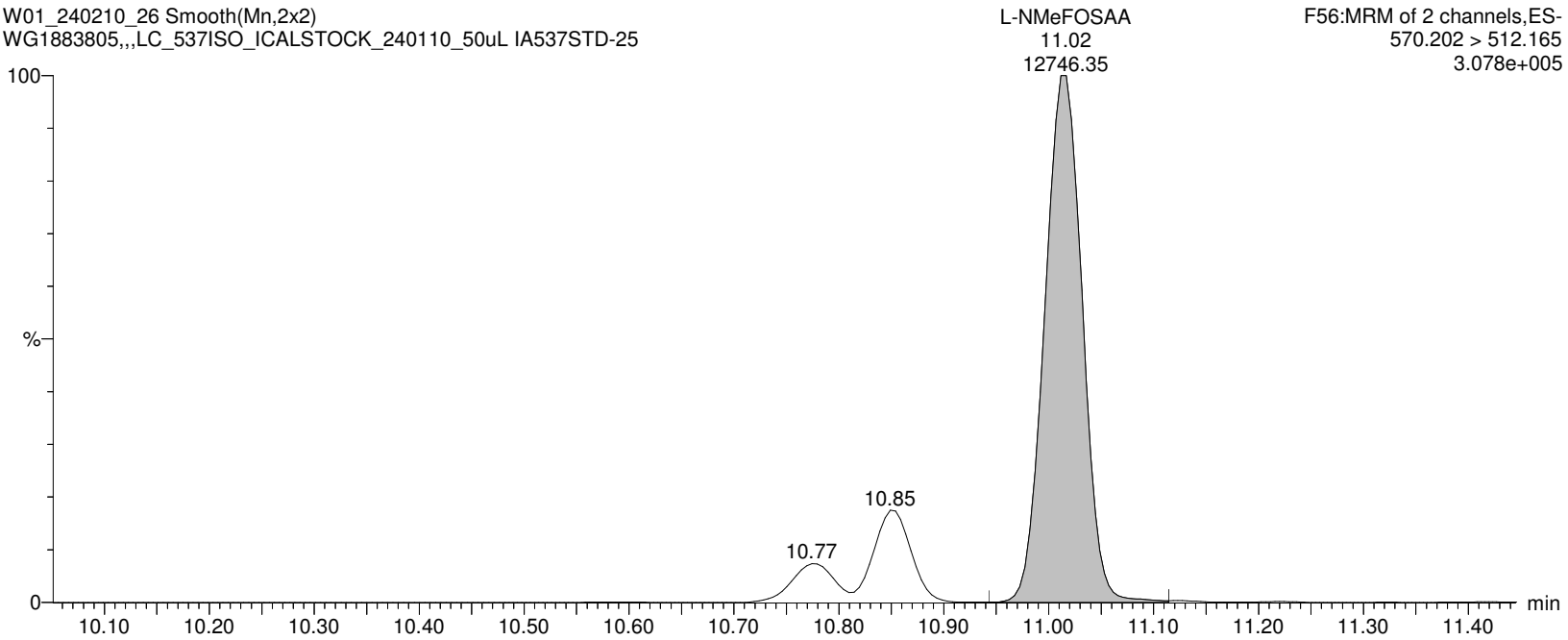

all concentration units in (ng/mL)

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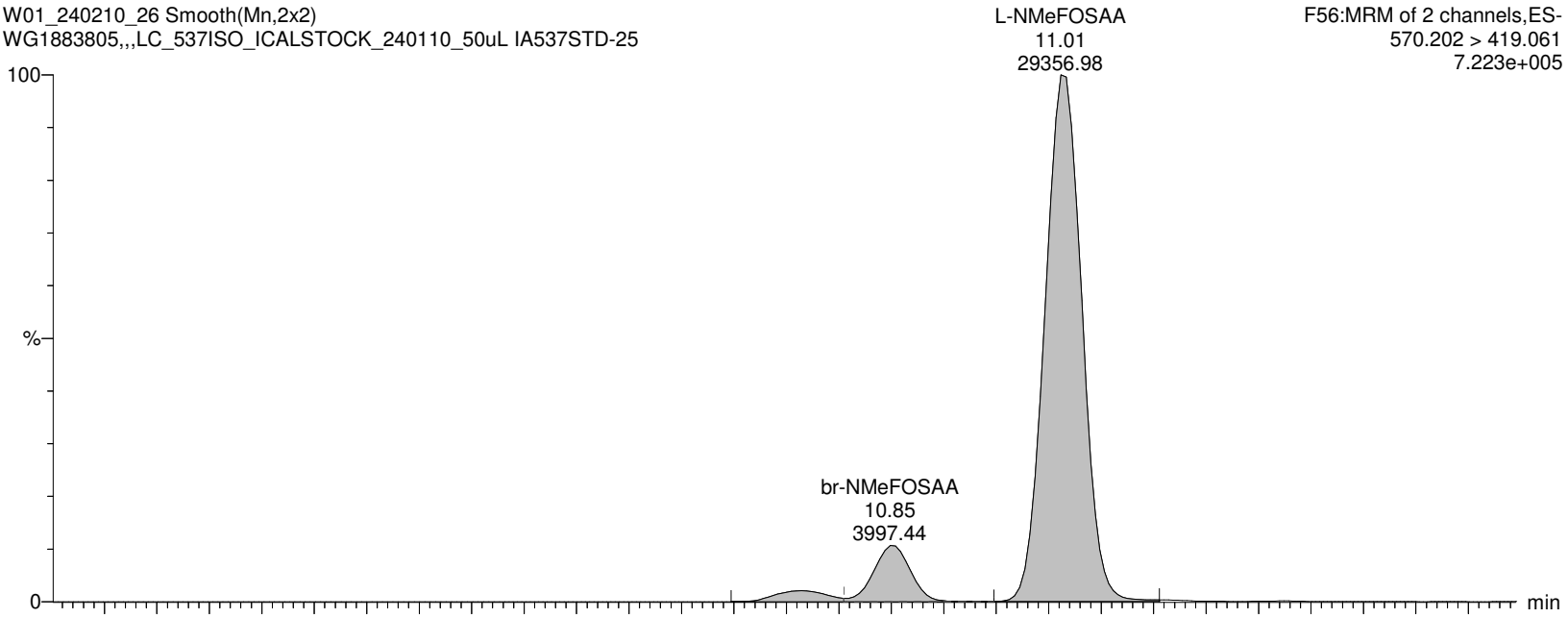
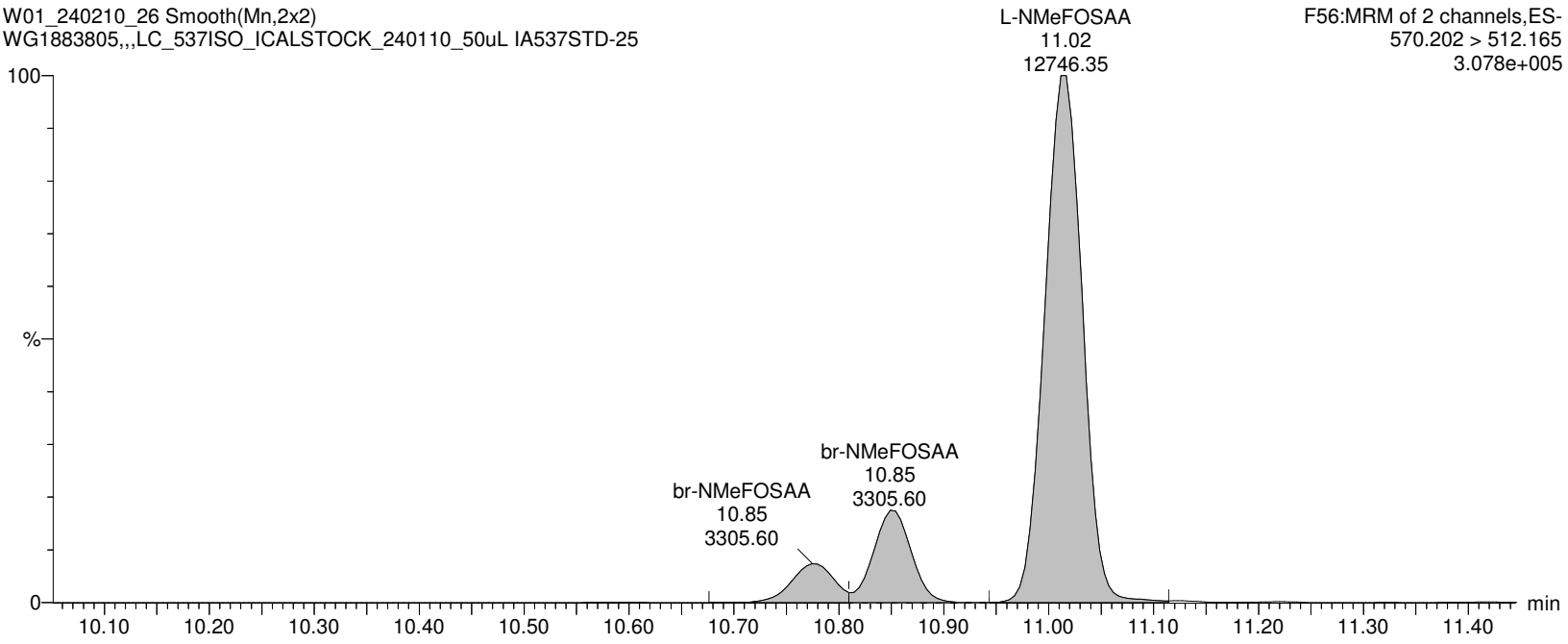
NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

Name: W01_240210_26
ID: IA537STD-25
Date: 10-Feb-2024
Time: 17:36:15
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User: LCMS01:SG
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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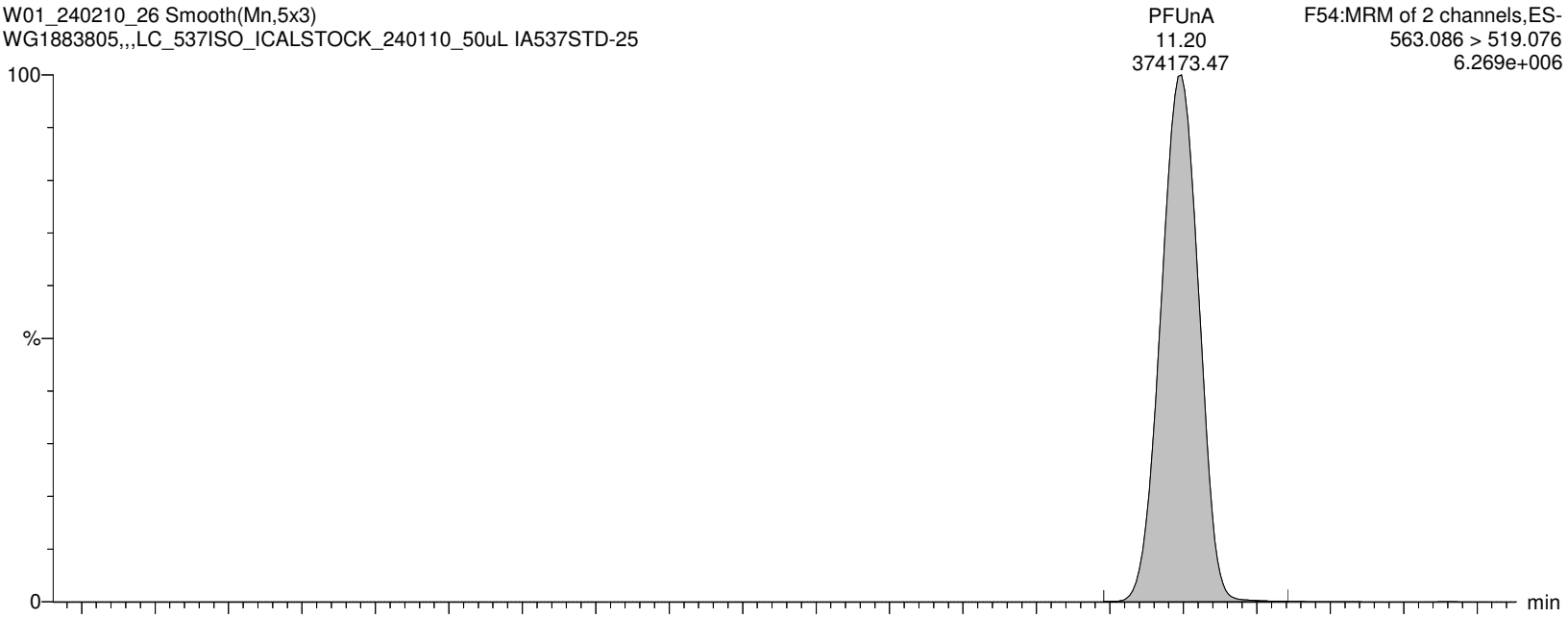

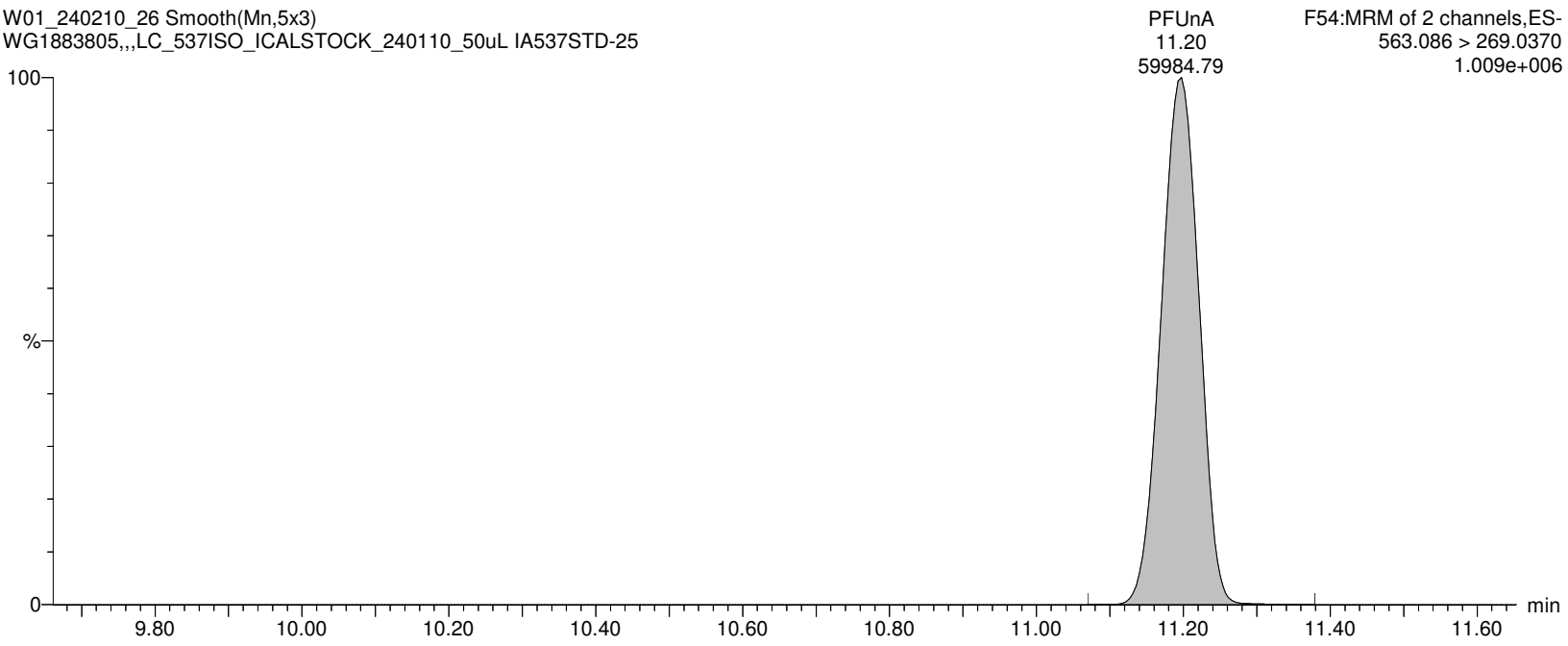

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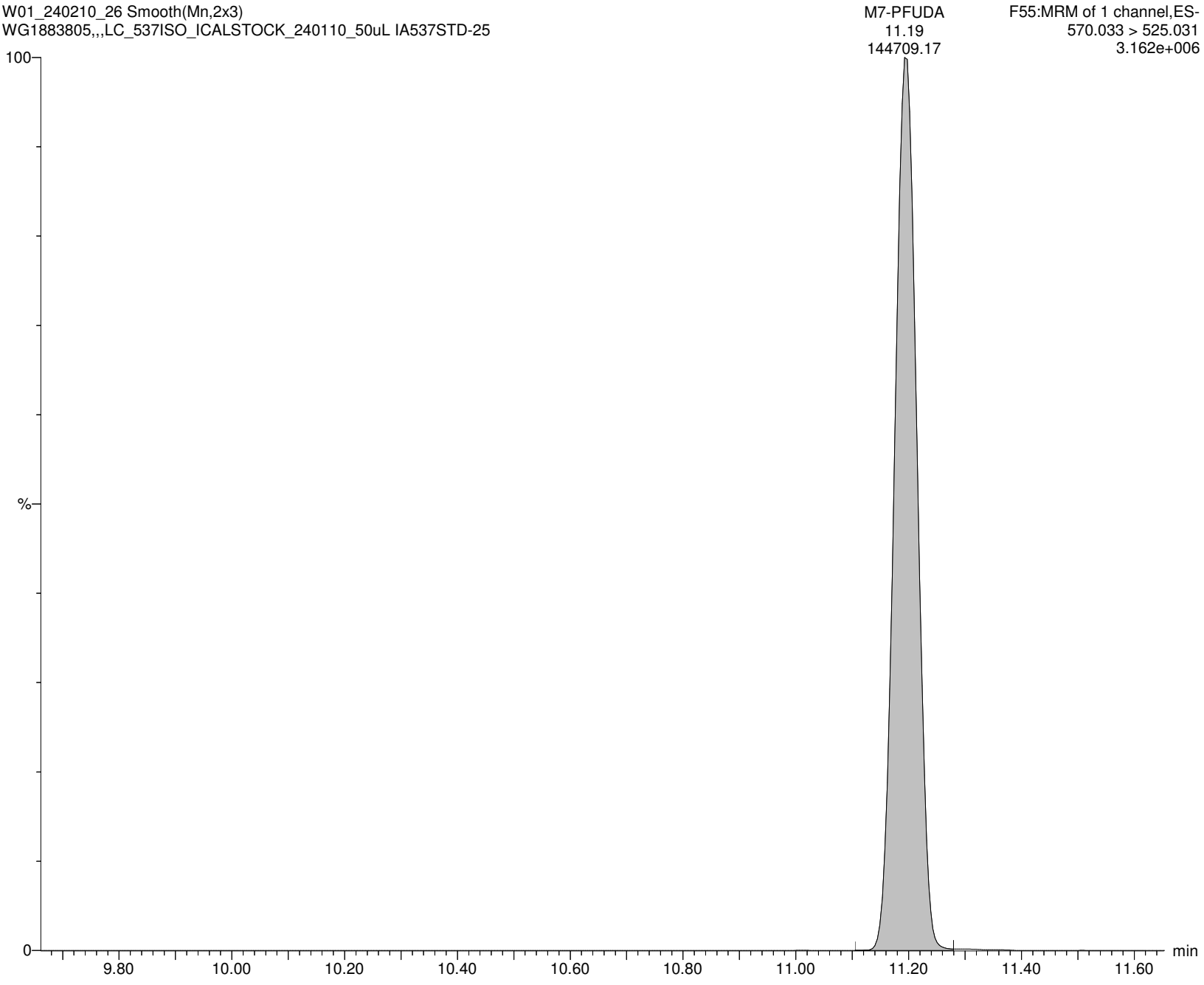

all concentration units in (ng/mL)

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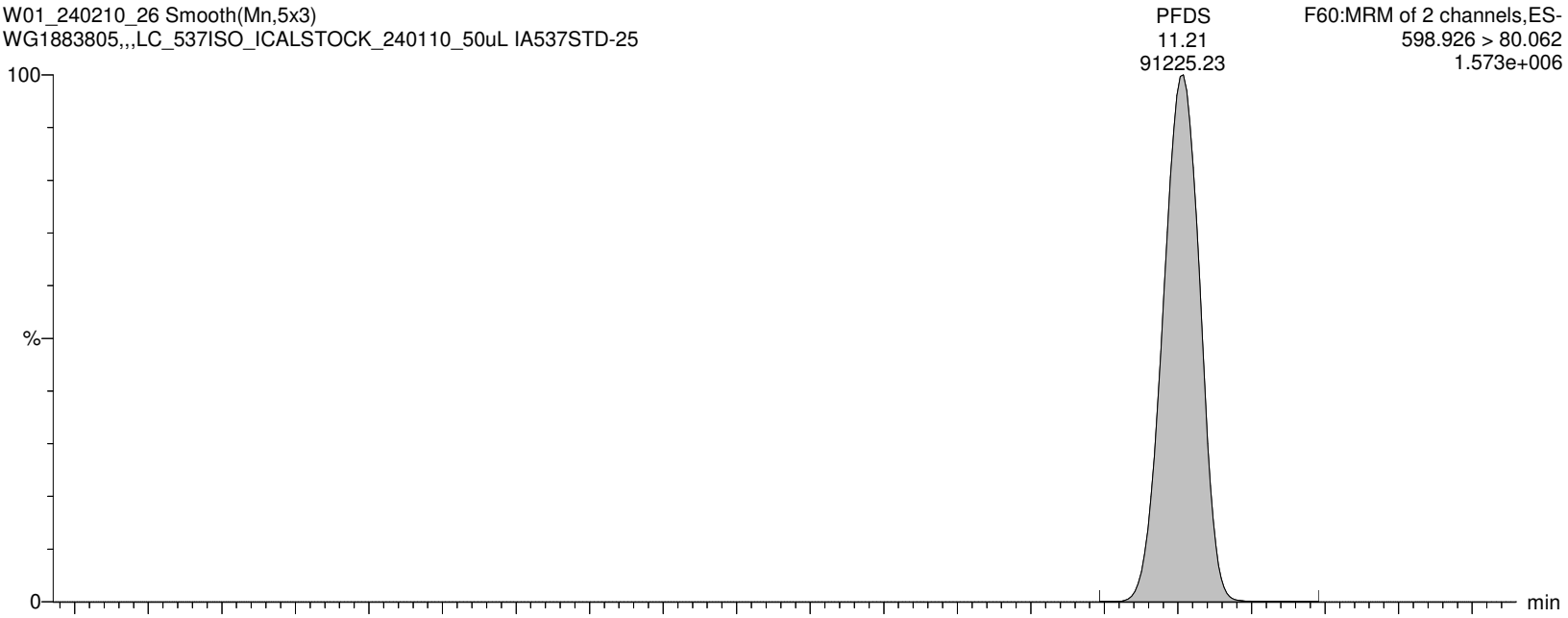

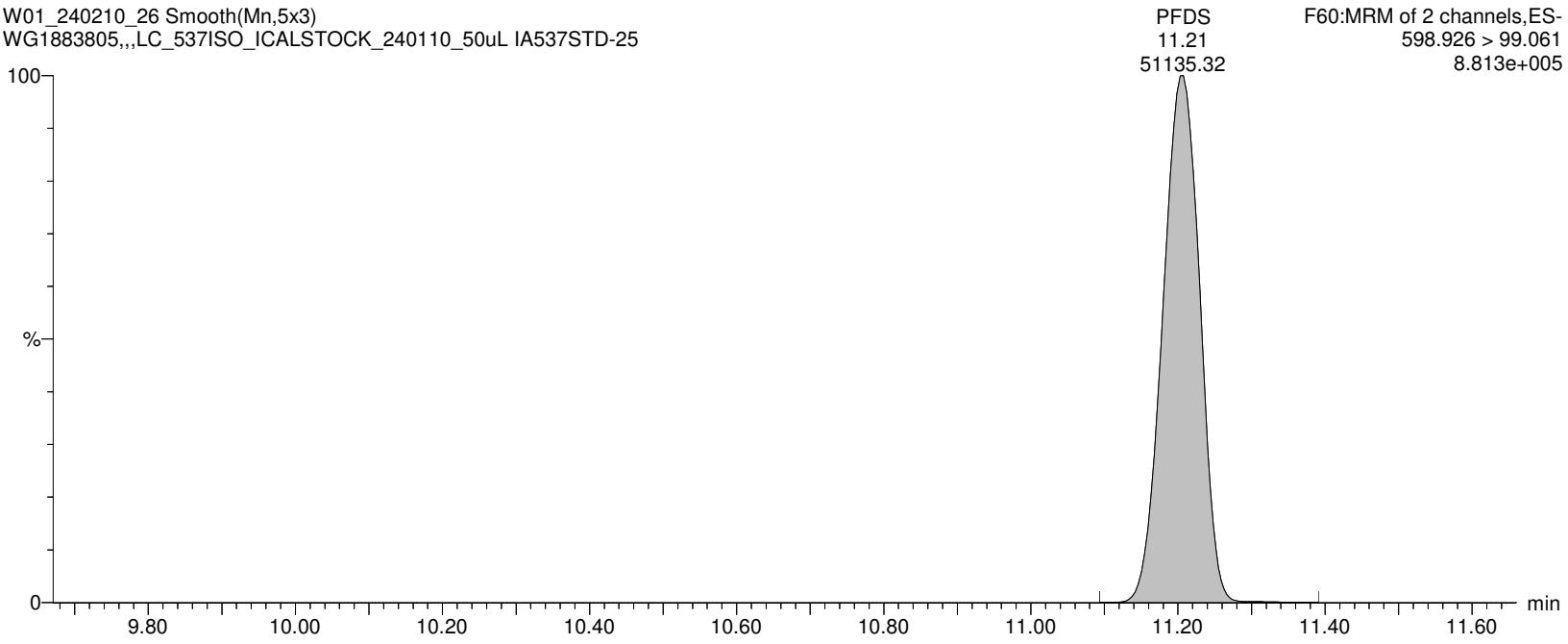

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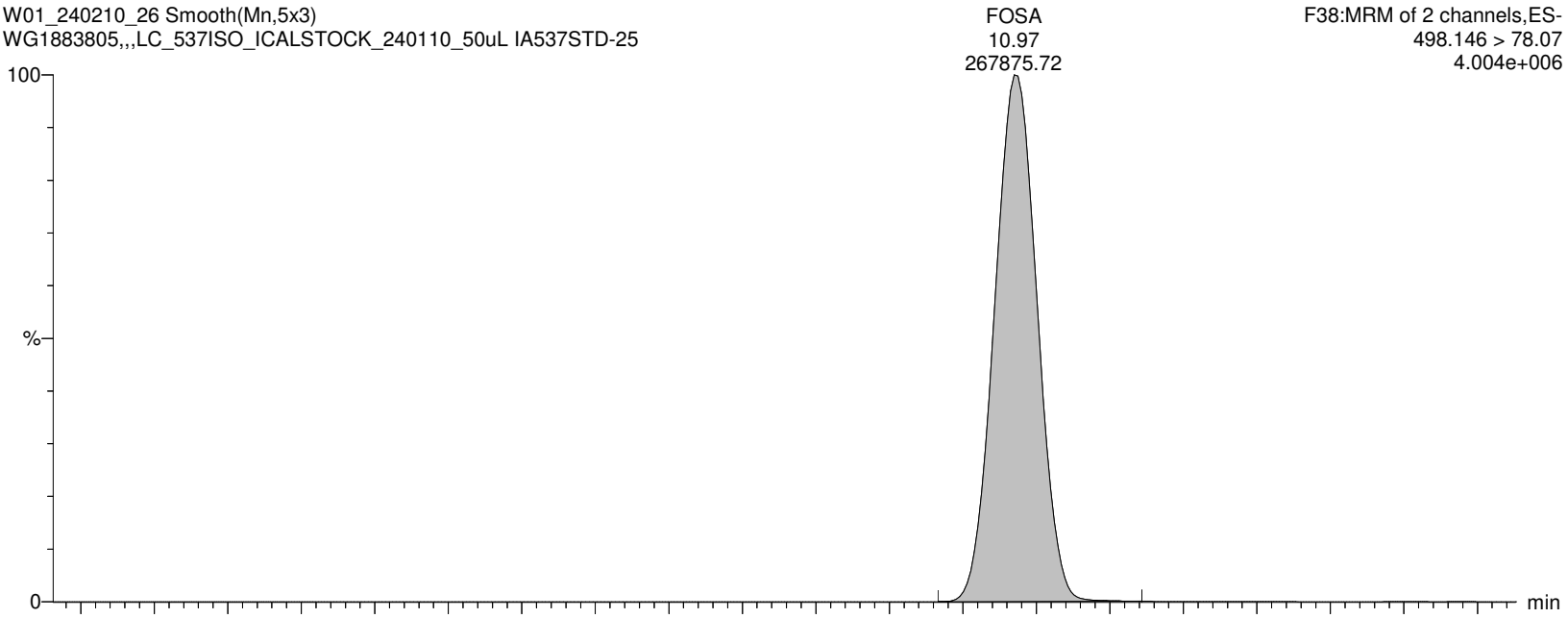

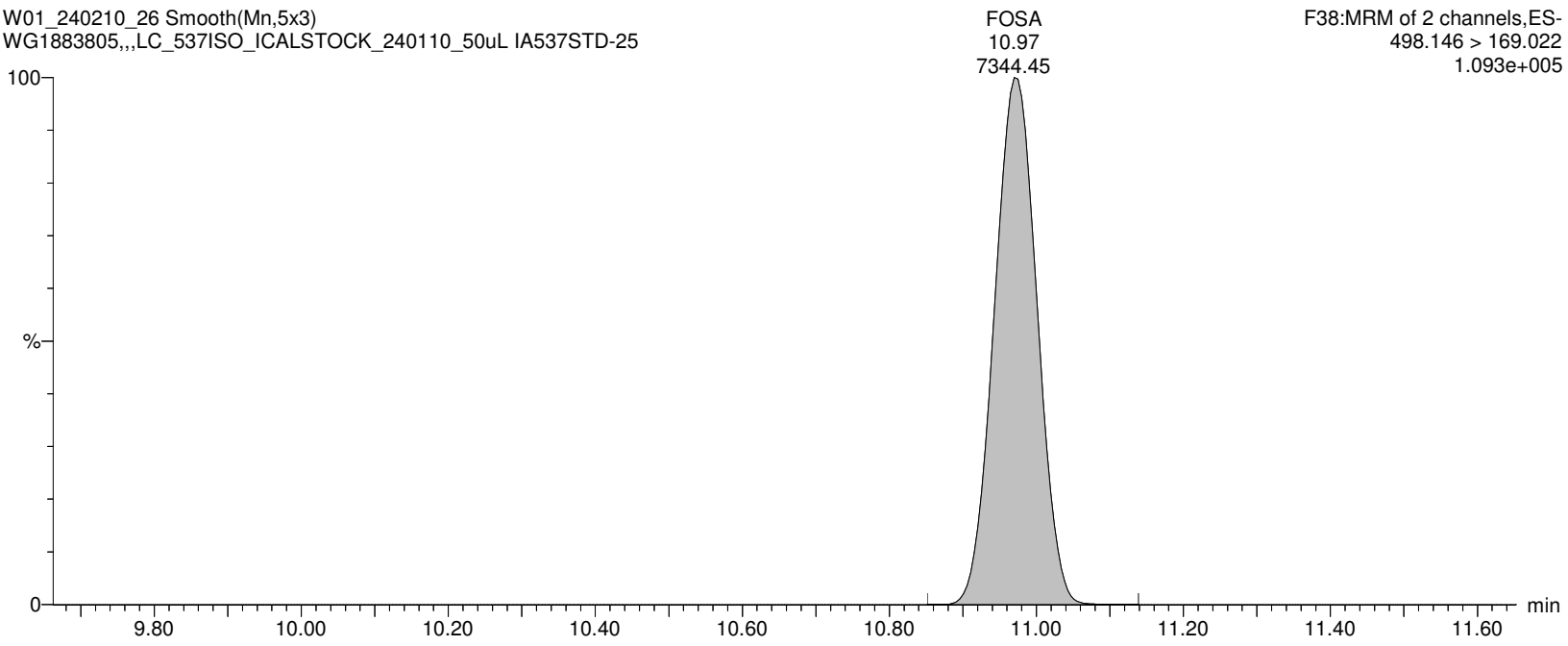

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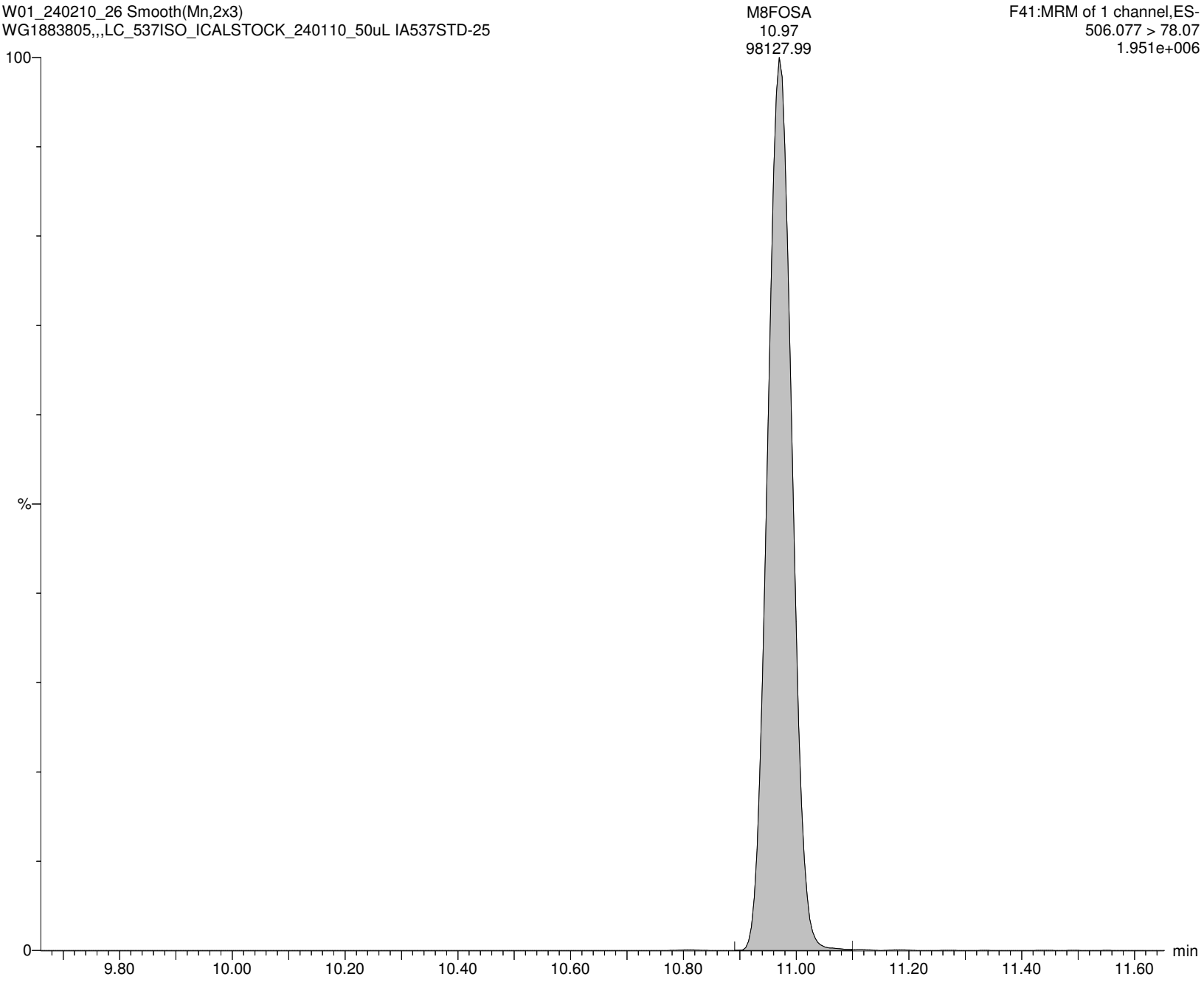

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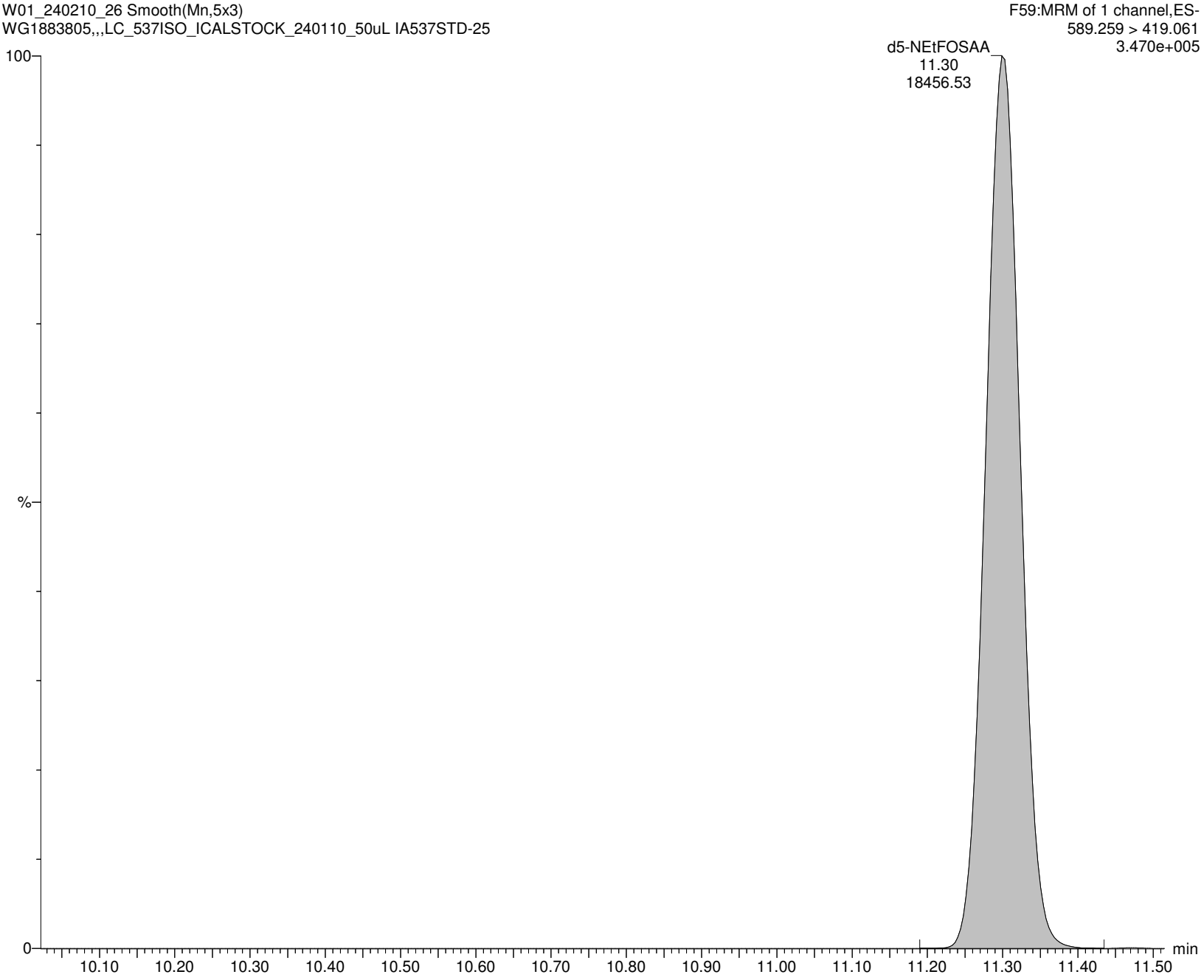
d5-NEtFOSAA



all concentration units in (ng/mL)

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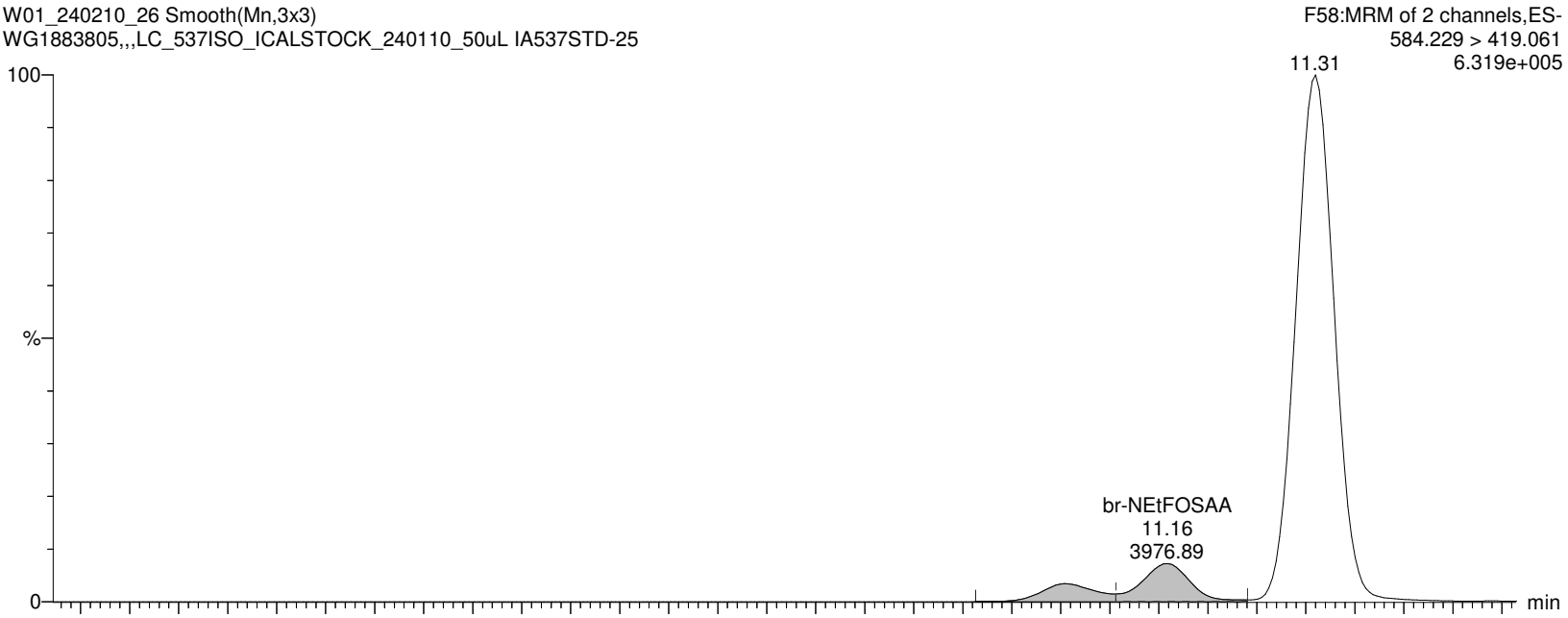

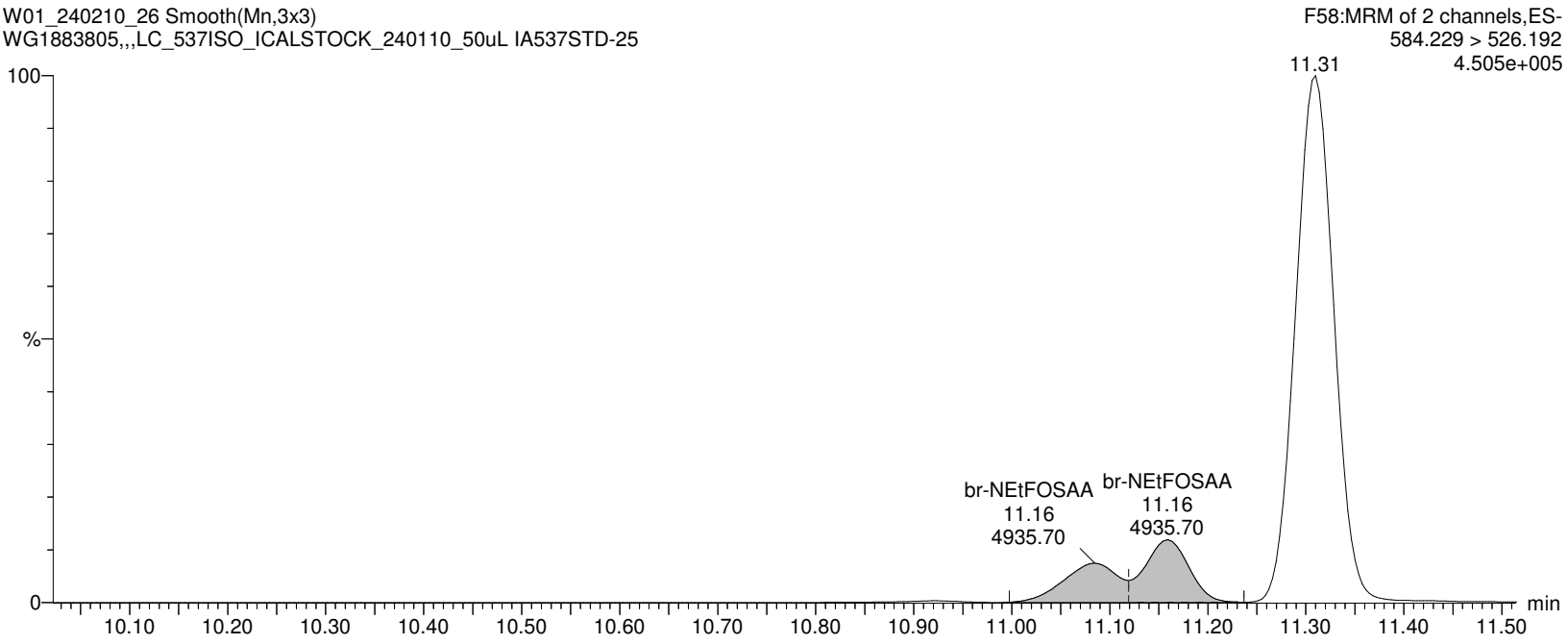

all concentration units in (ng/mL)

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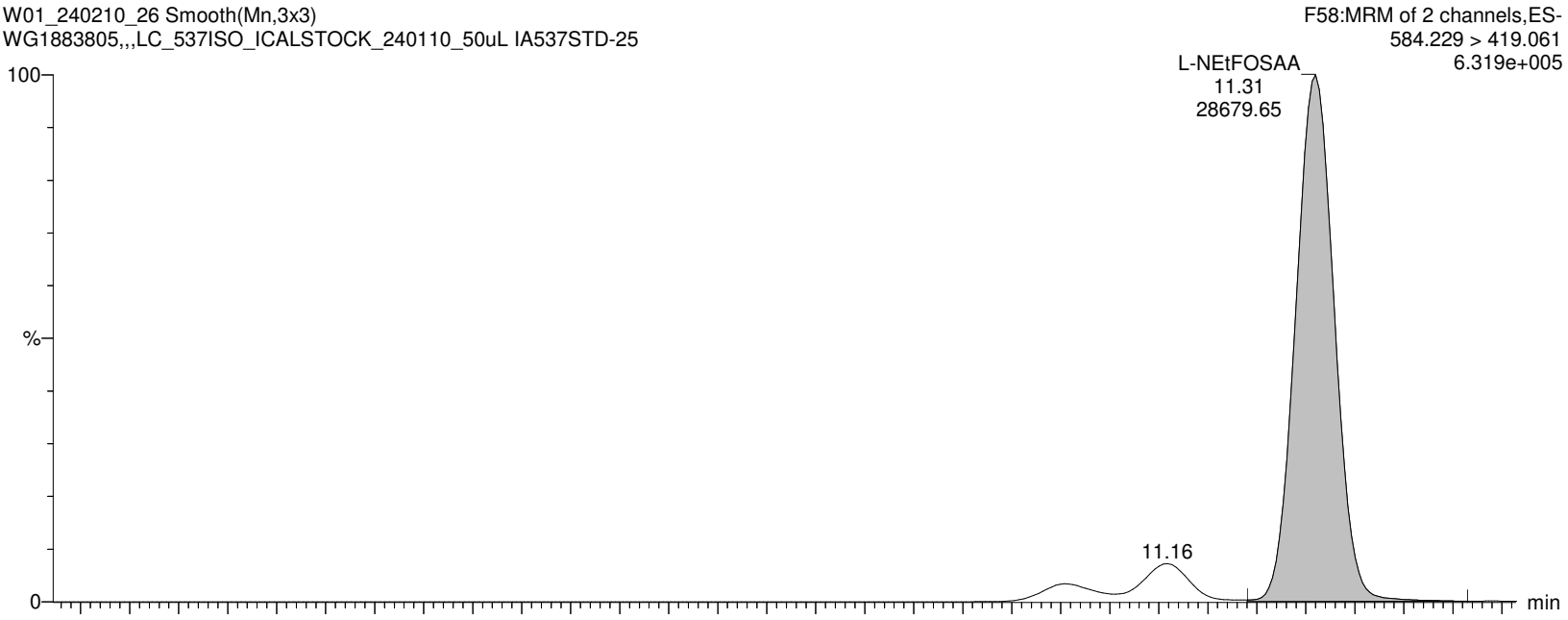

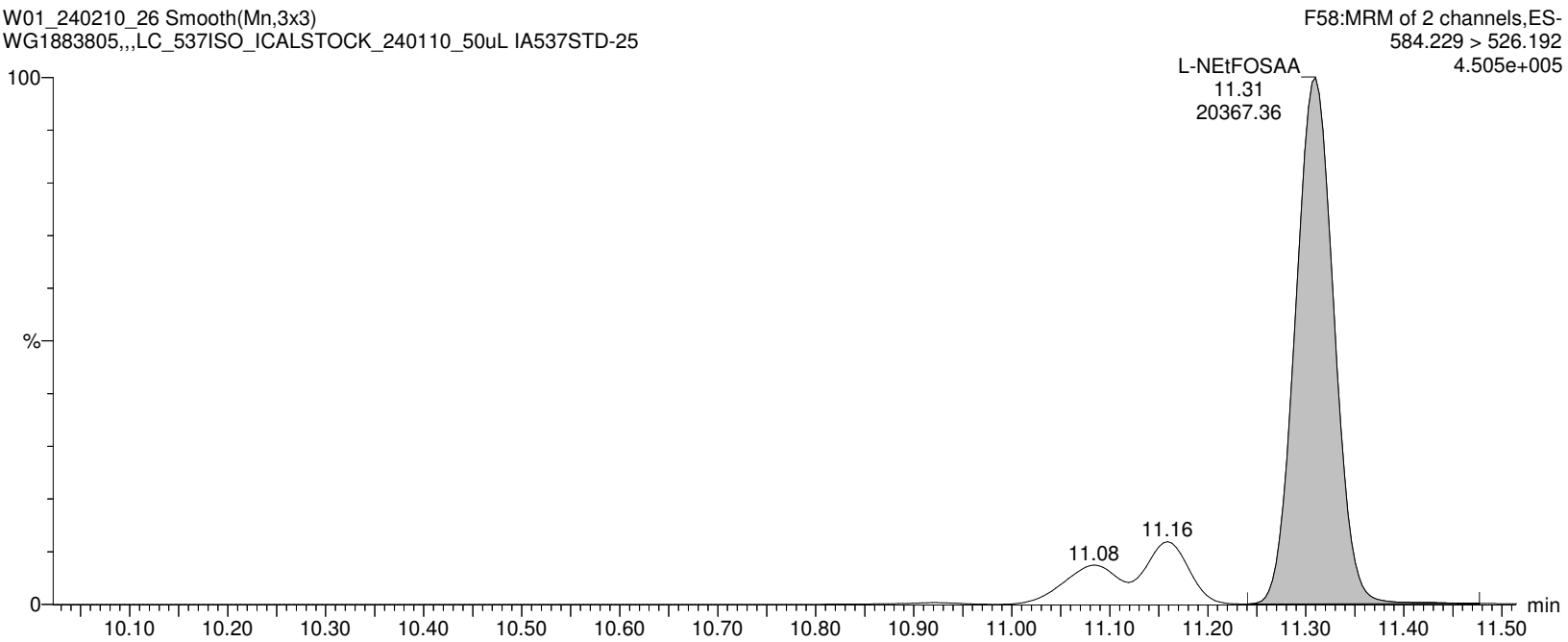

all concentration units in (ng/mL)

Alpha Analytical Inc.
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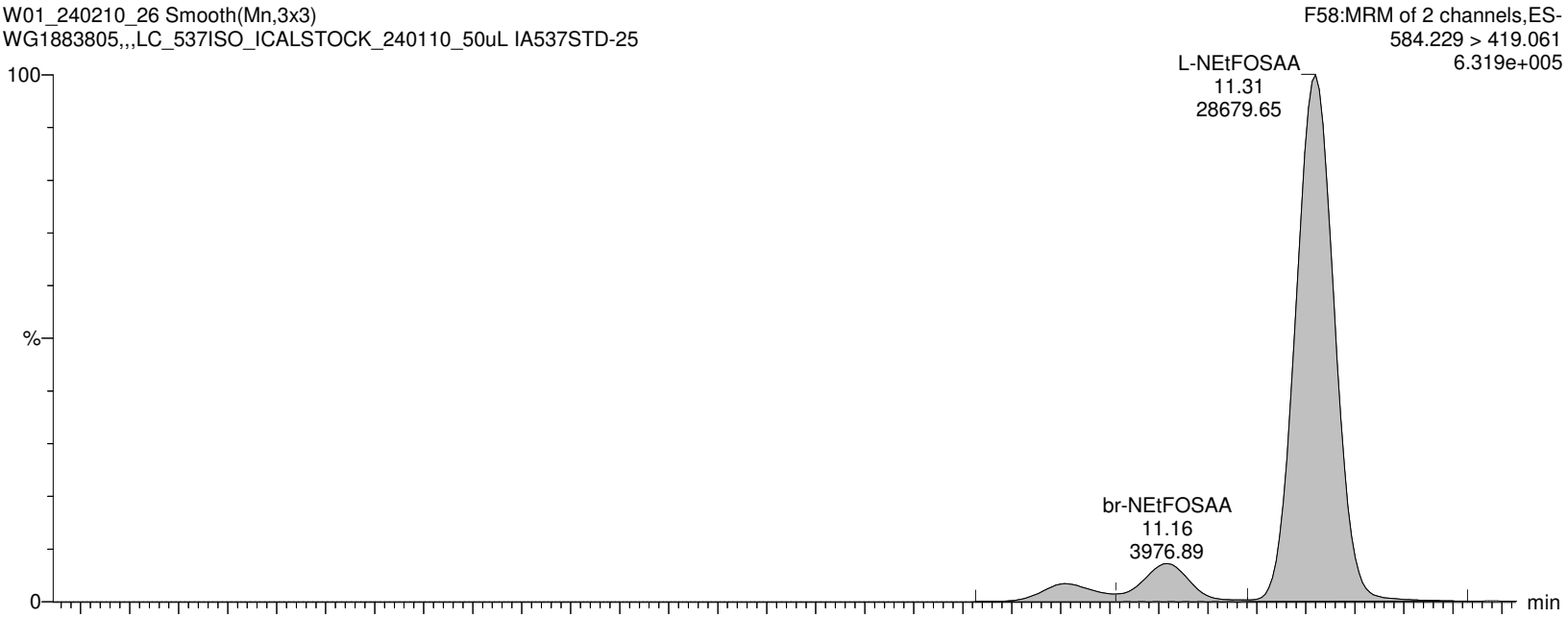

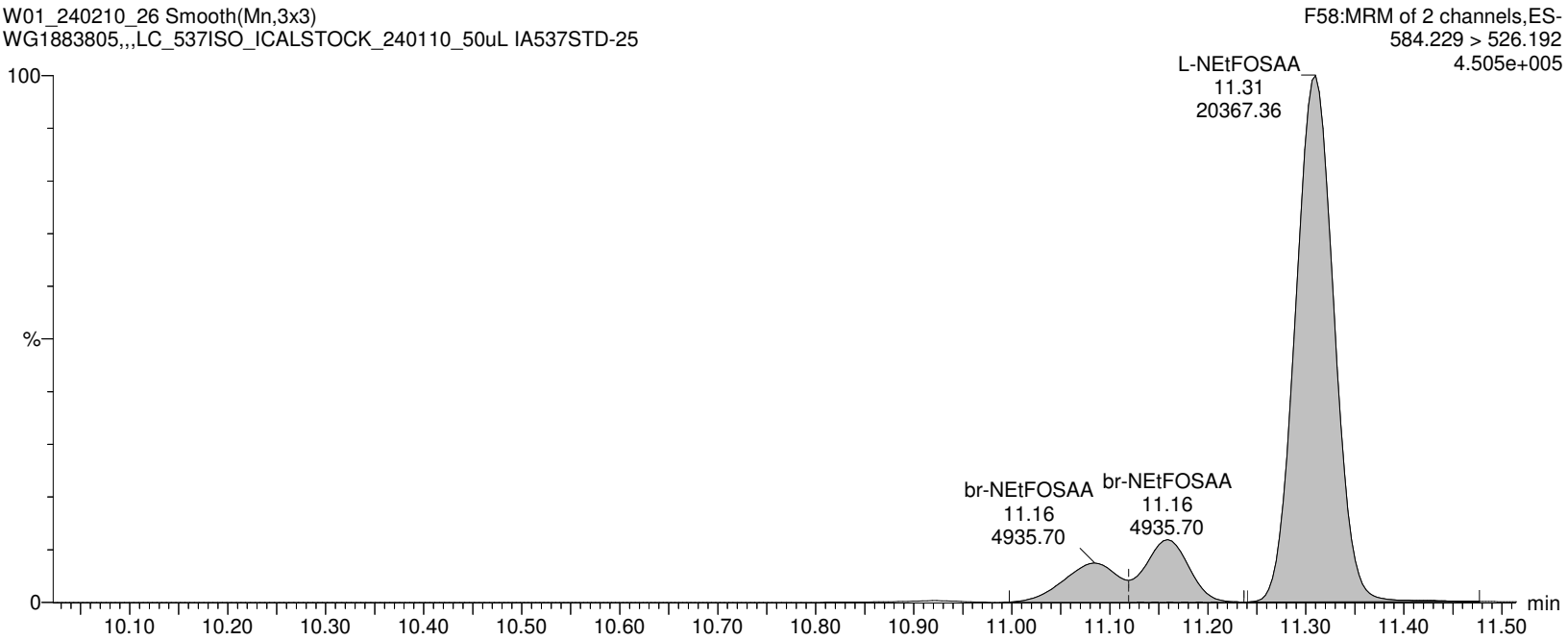

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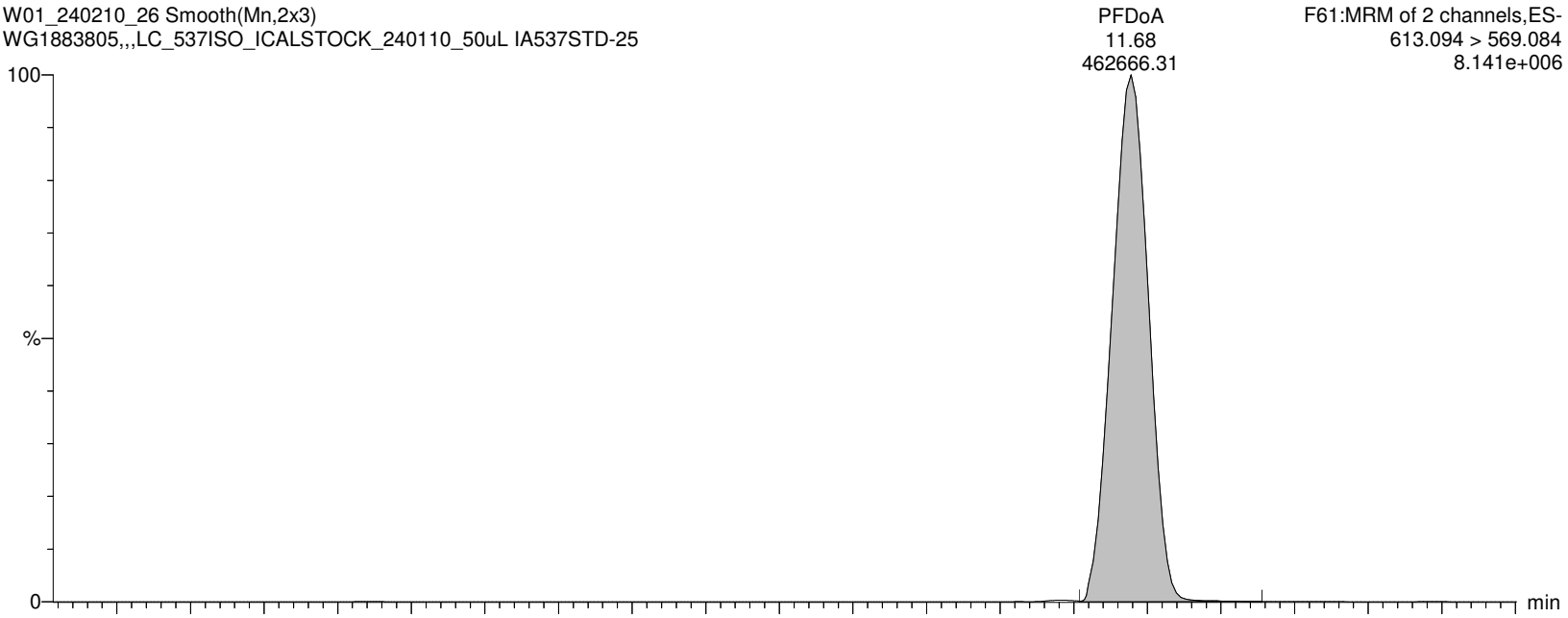

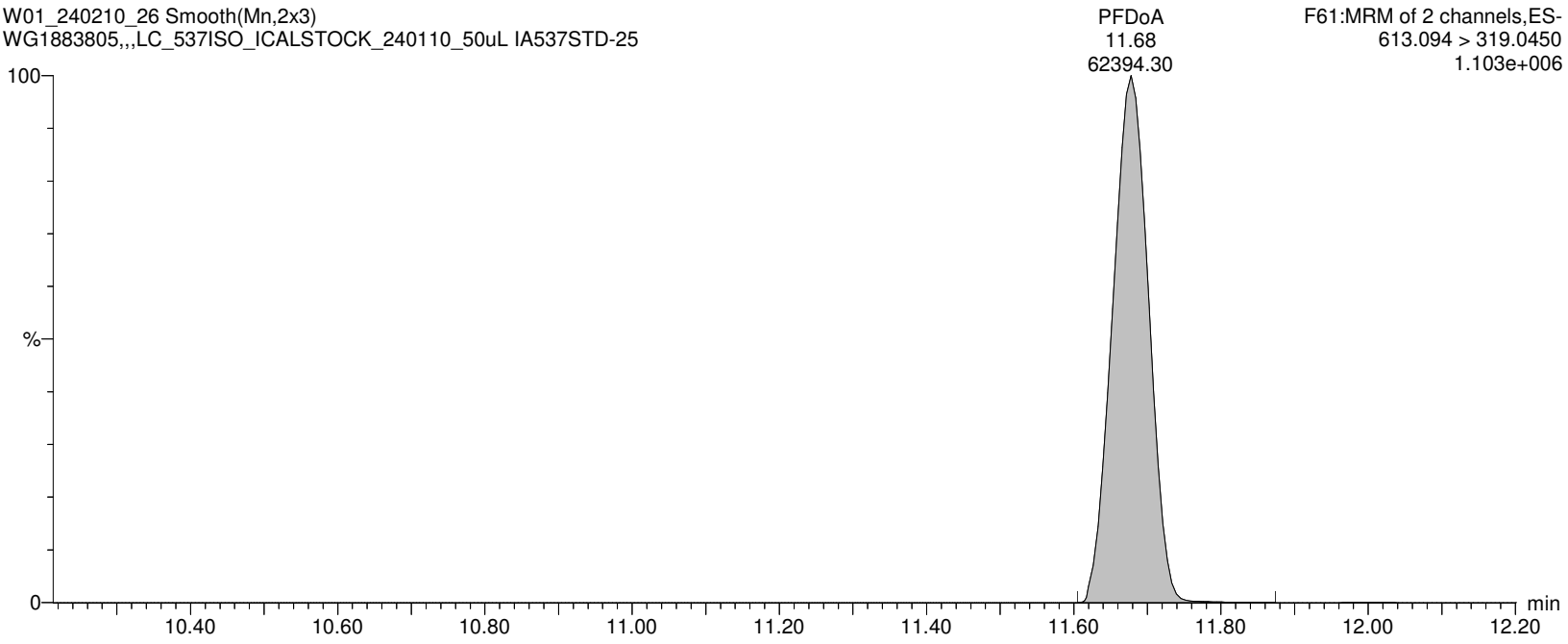

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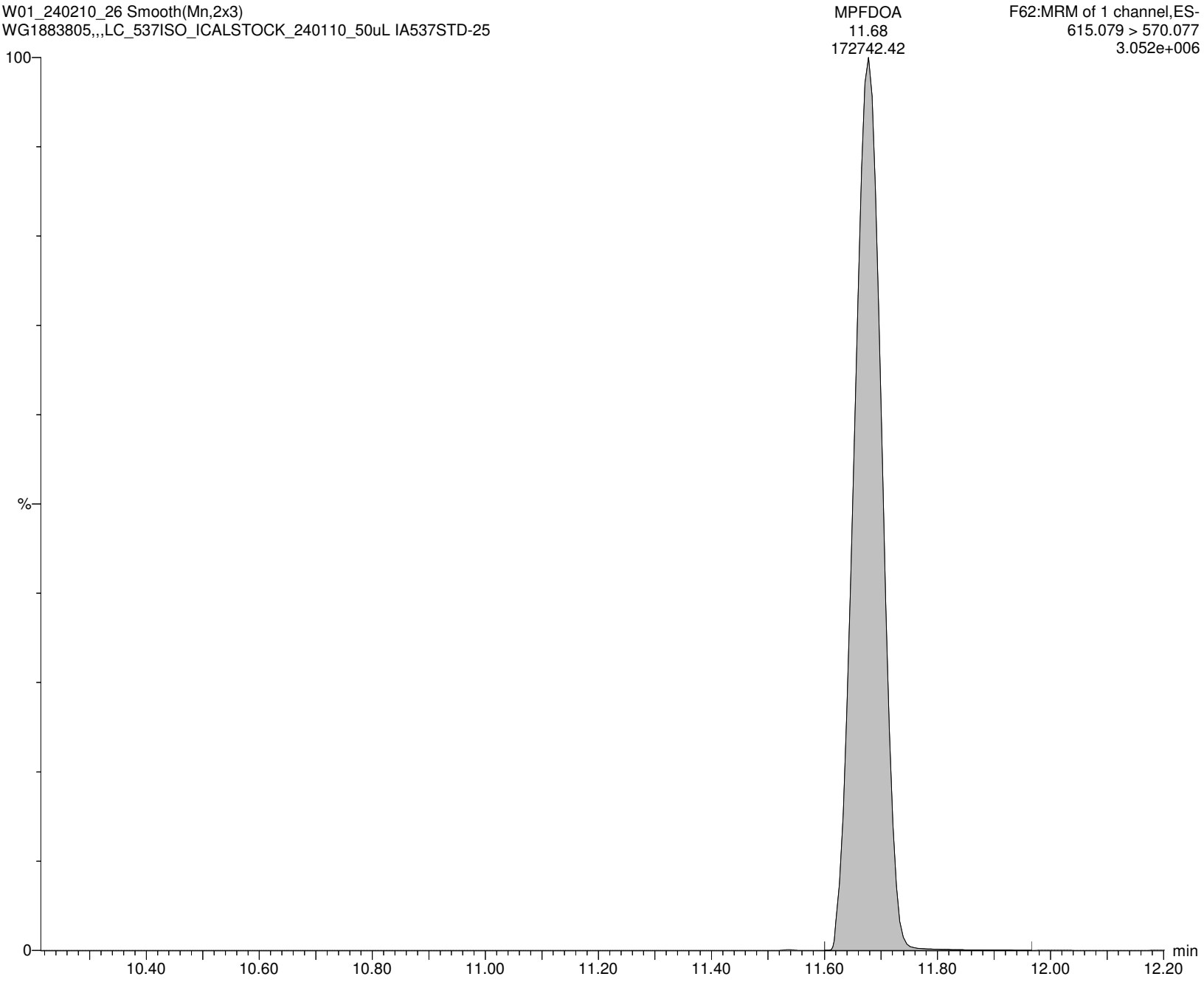

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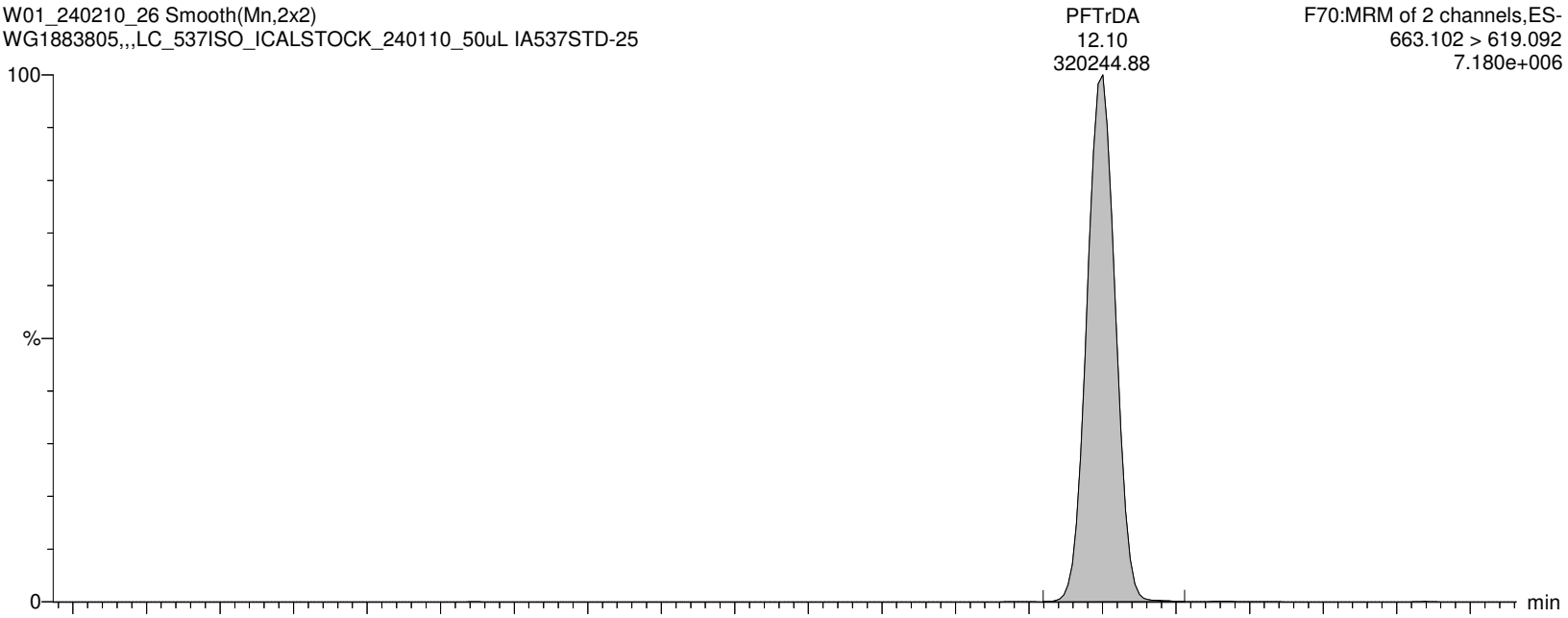

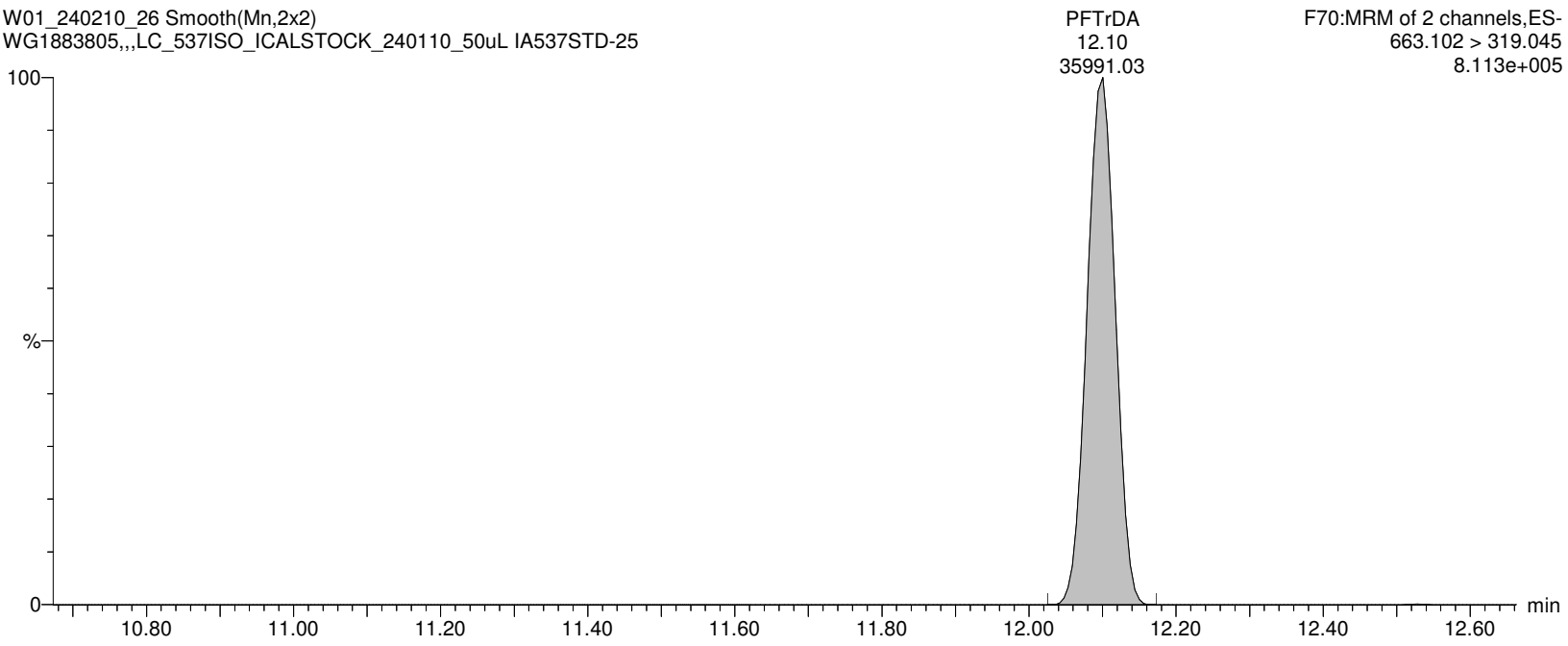

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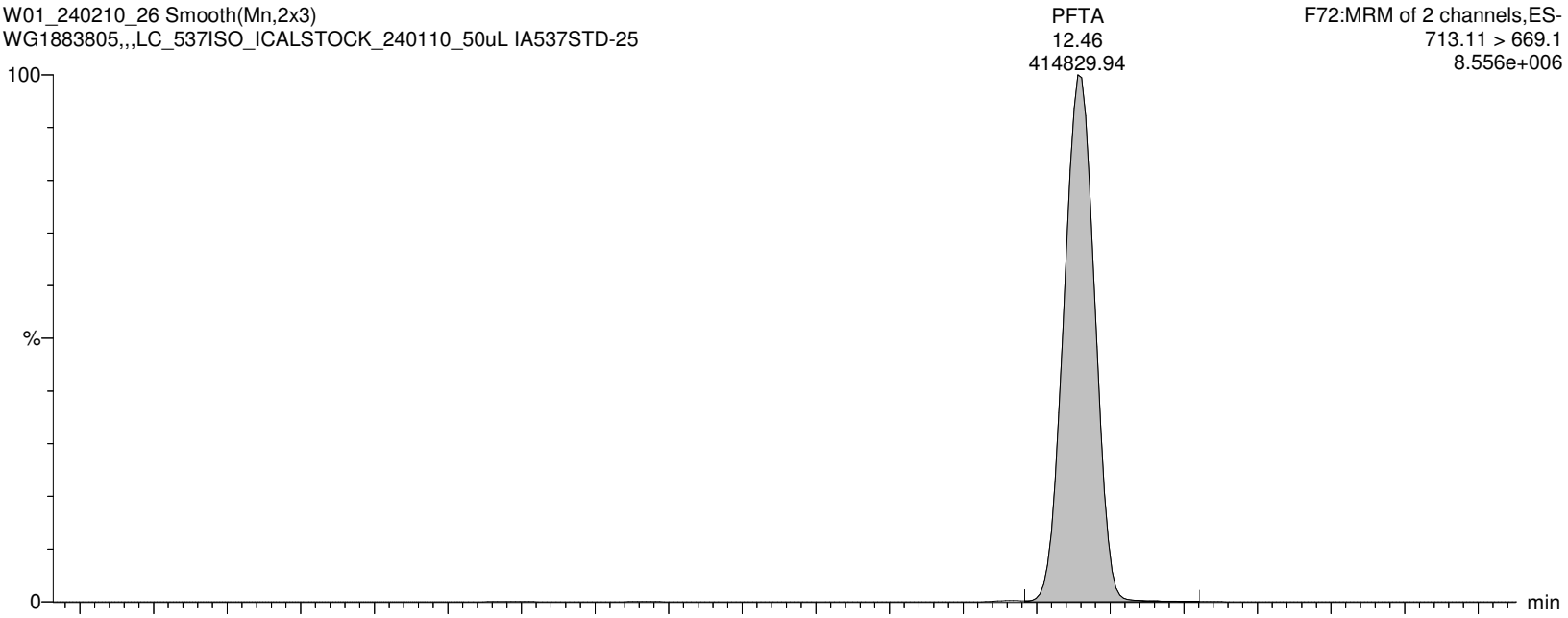
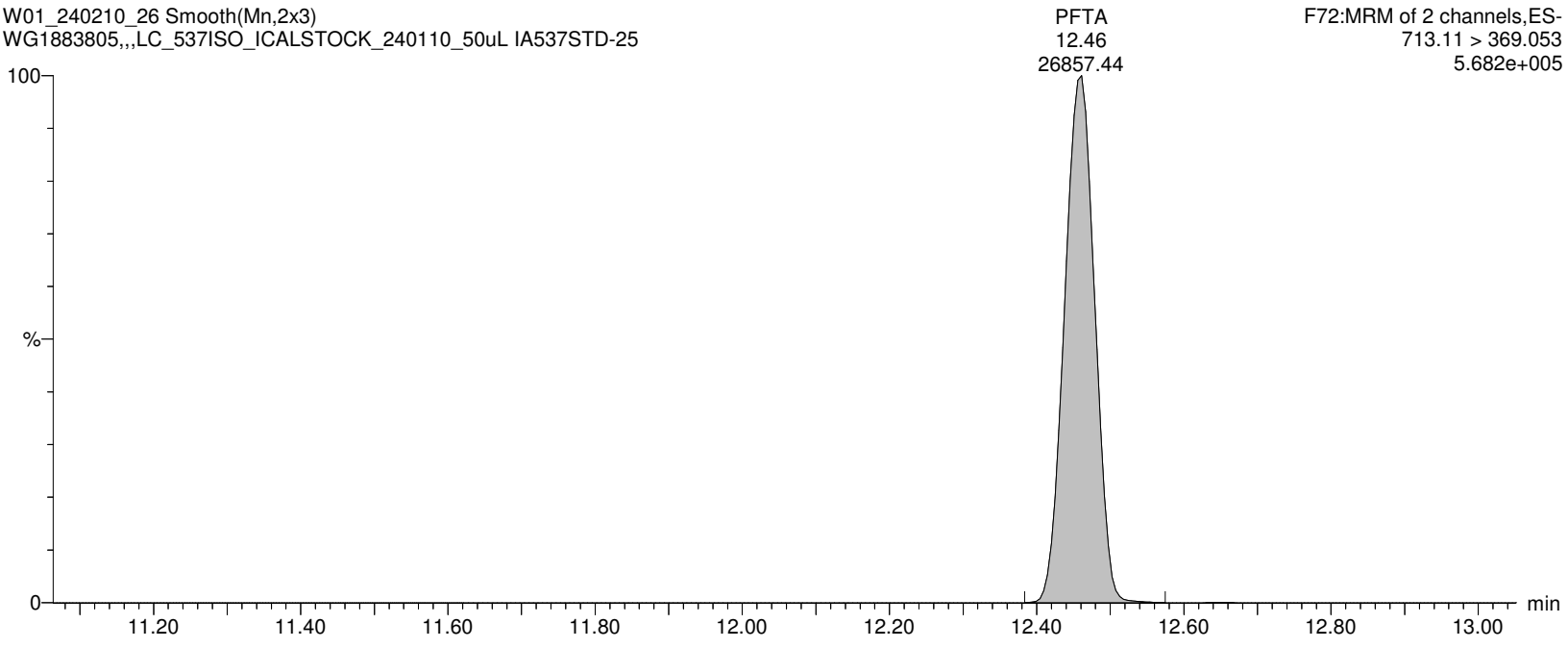
PFTA





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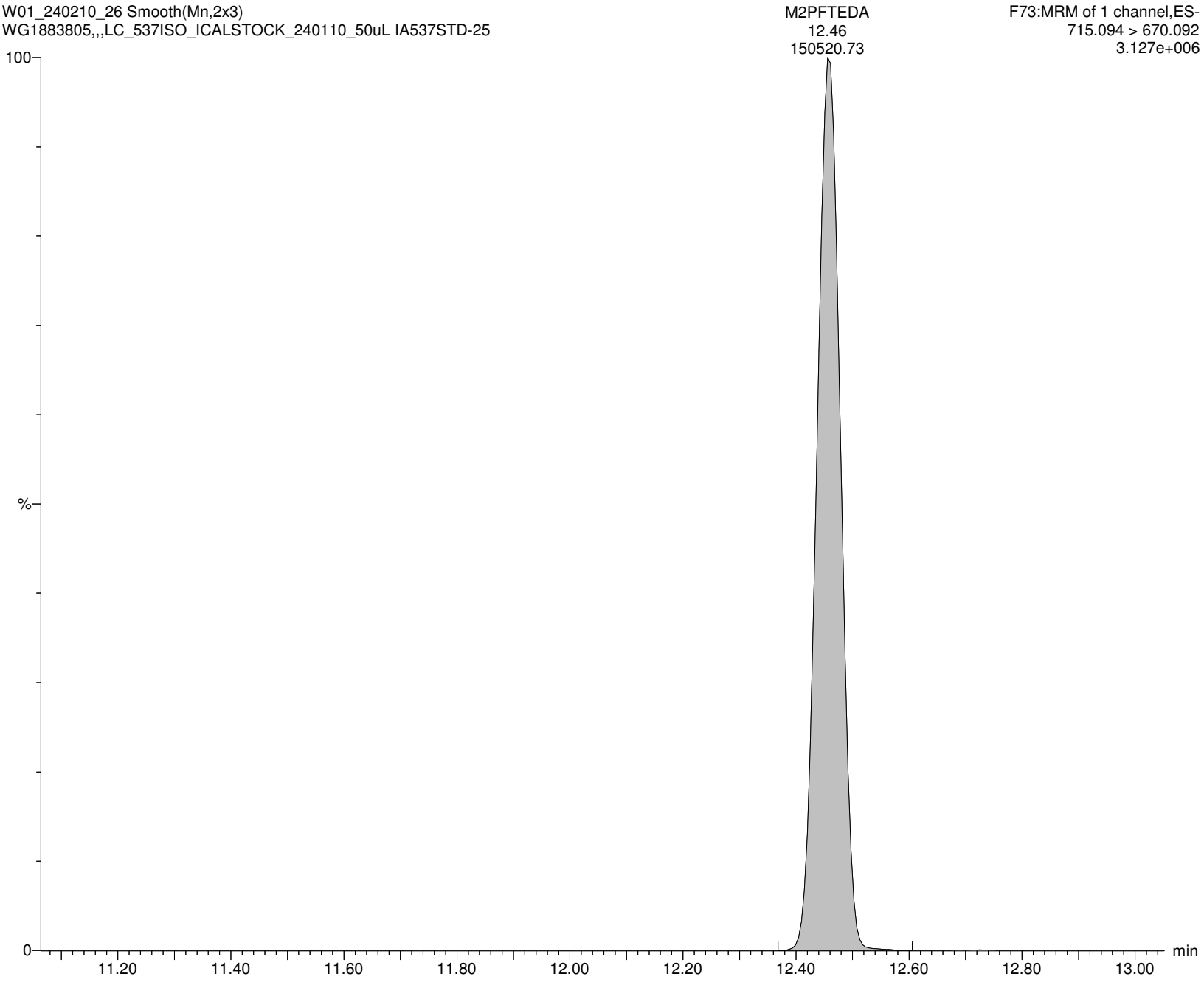

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

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ID: IA537STD-25
Date: 10-Feb-2024
Time: 17:36:15
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User: LCMS01:SG
Vial: 1:B,6
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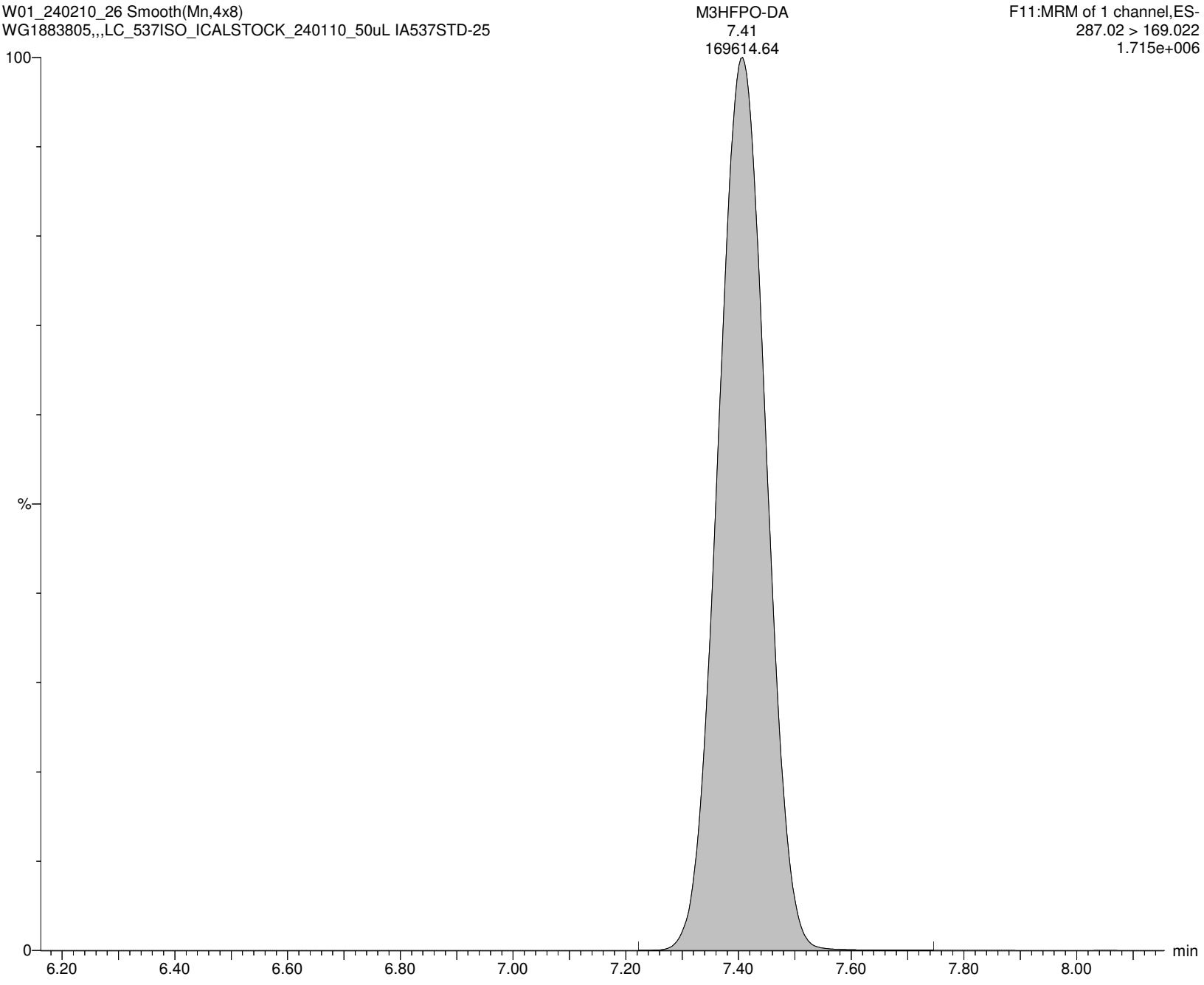

all concentration units in (ng/mL)

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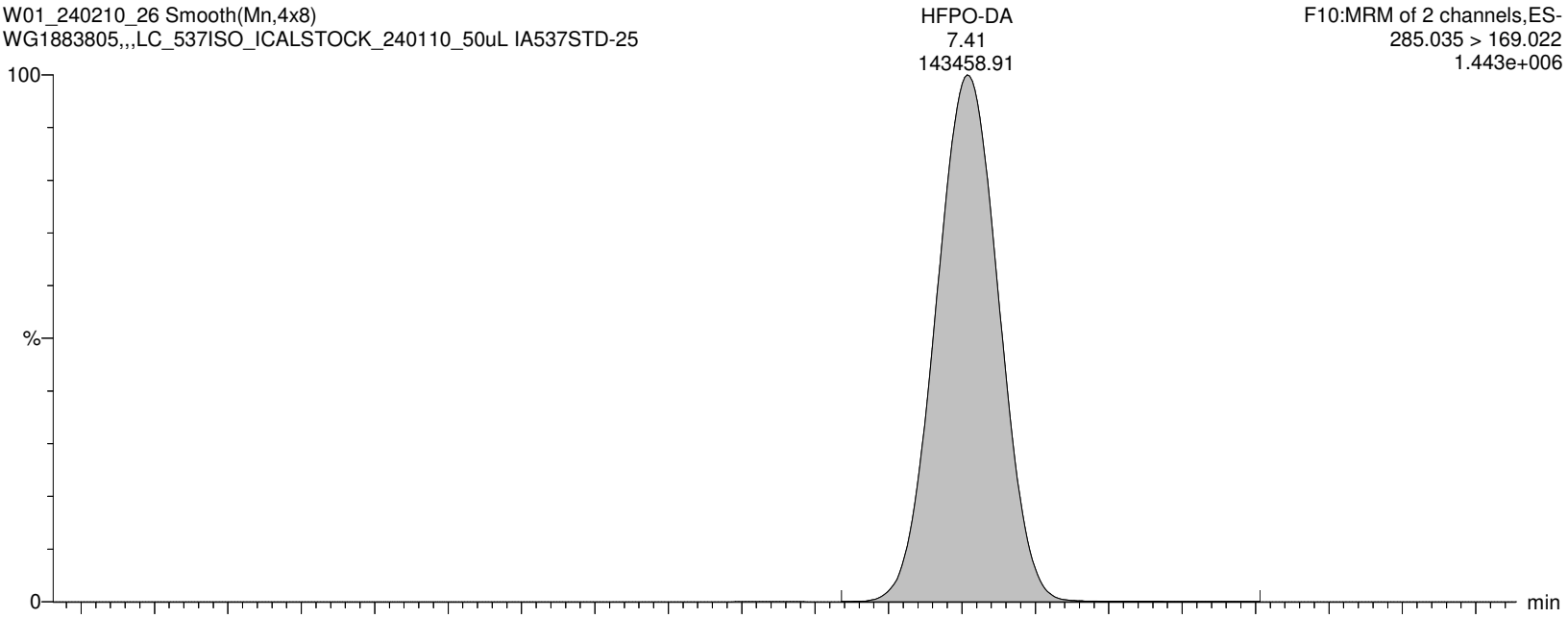

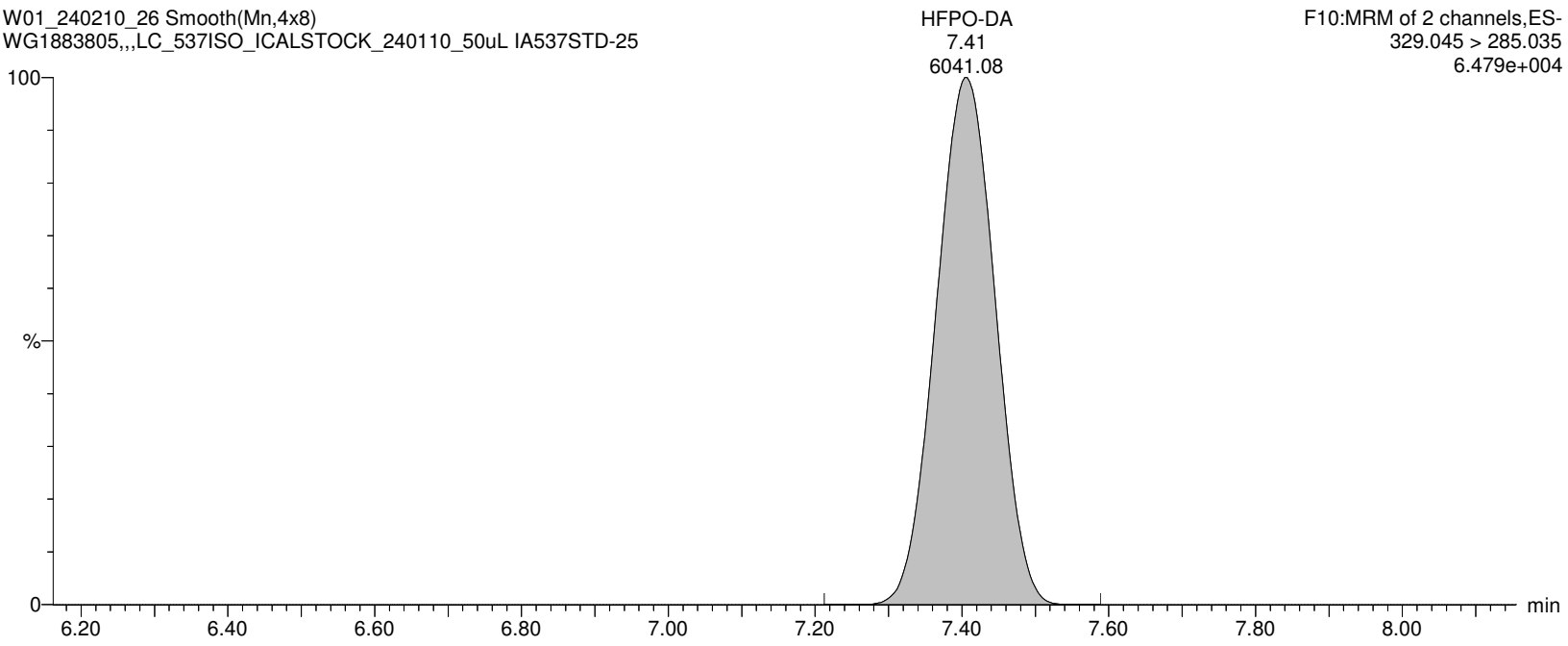

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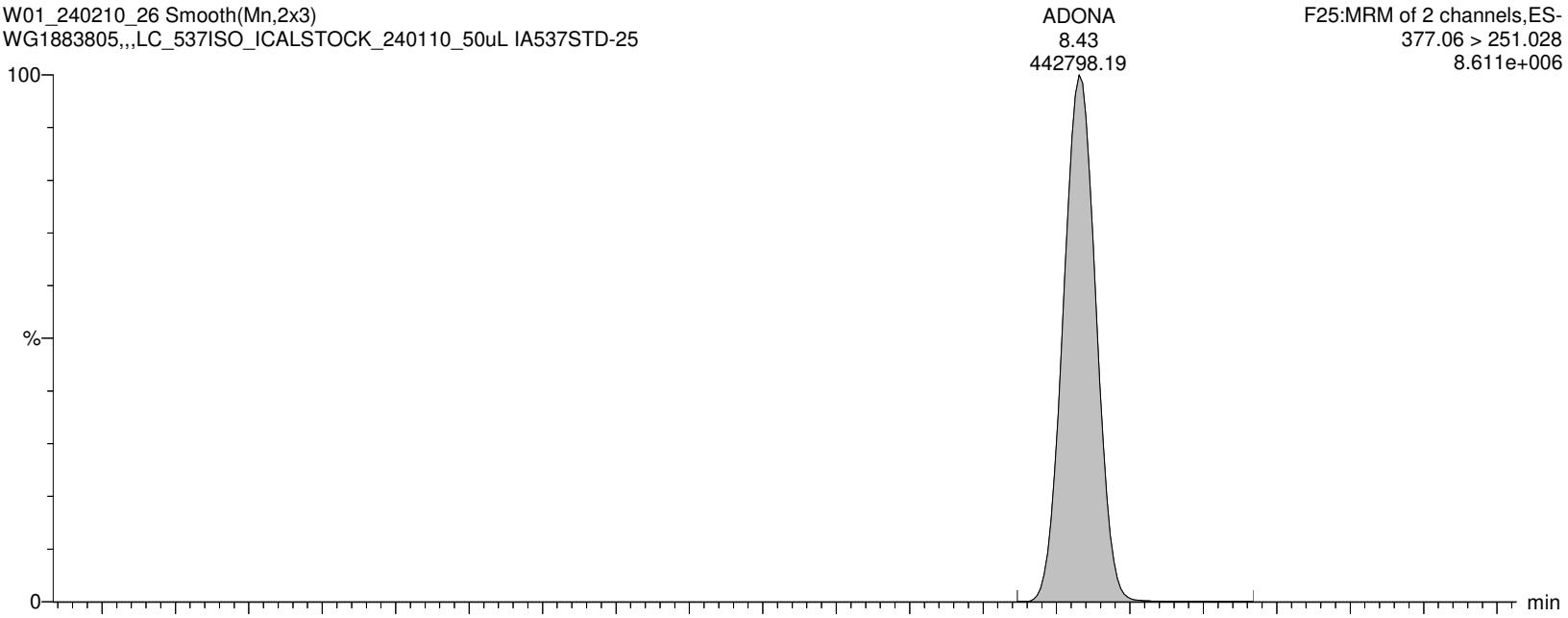

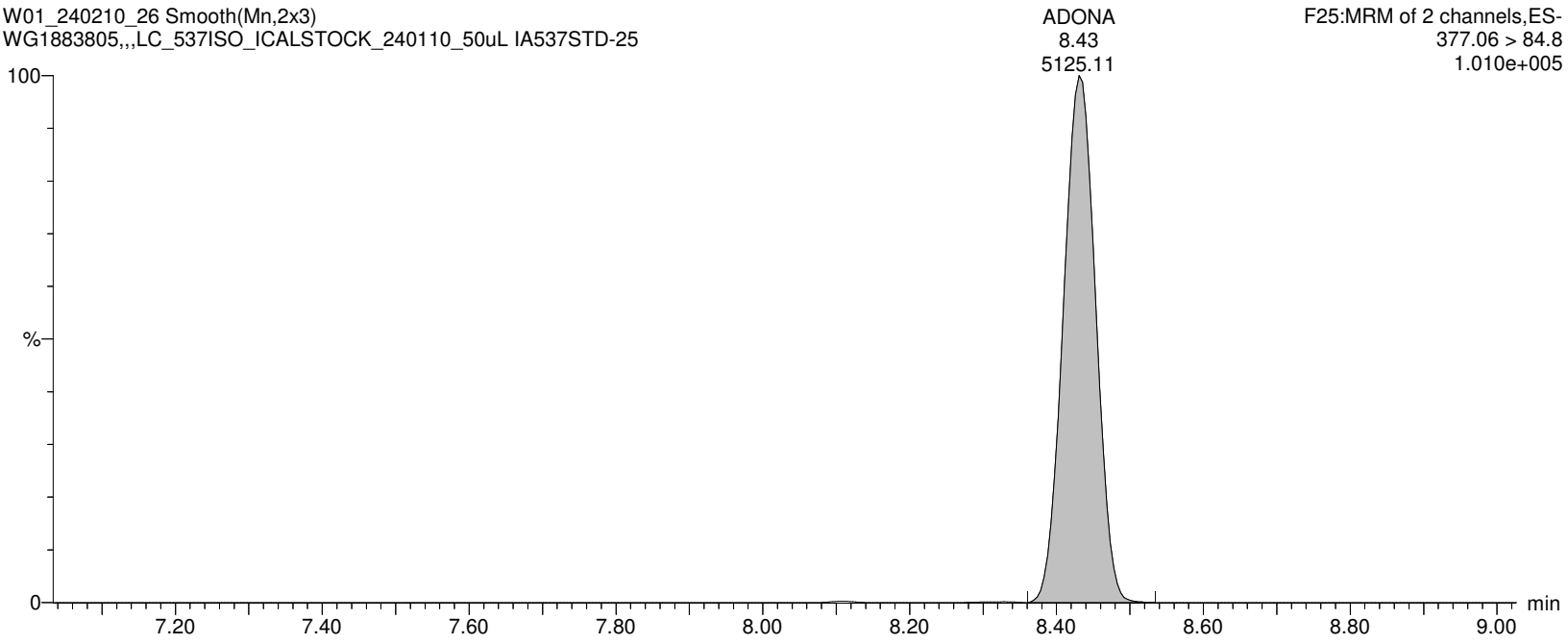

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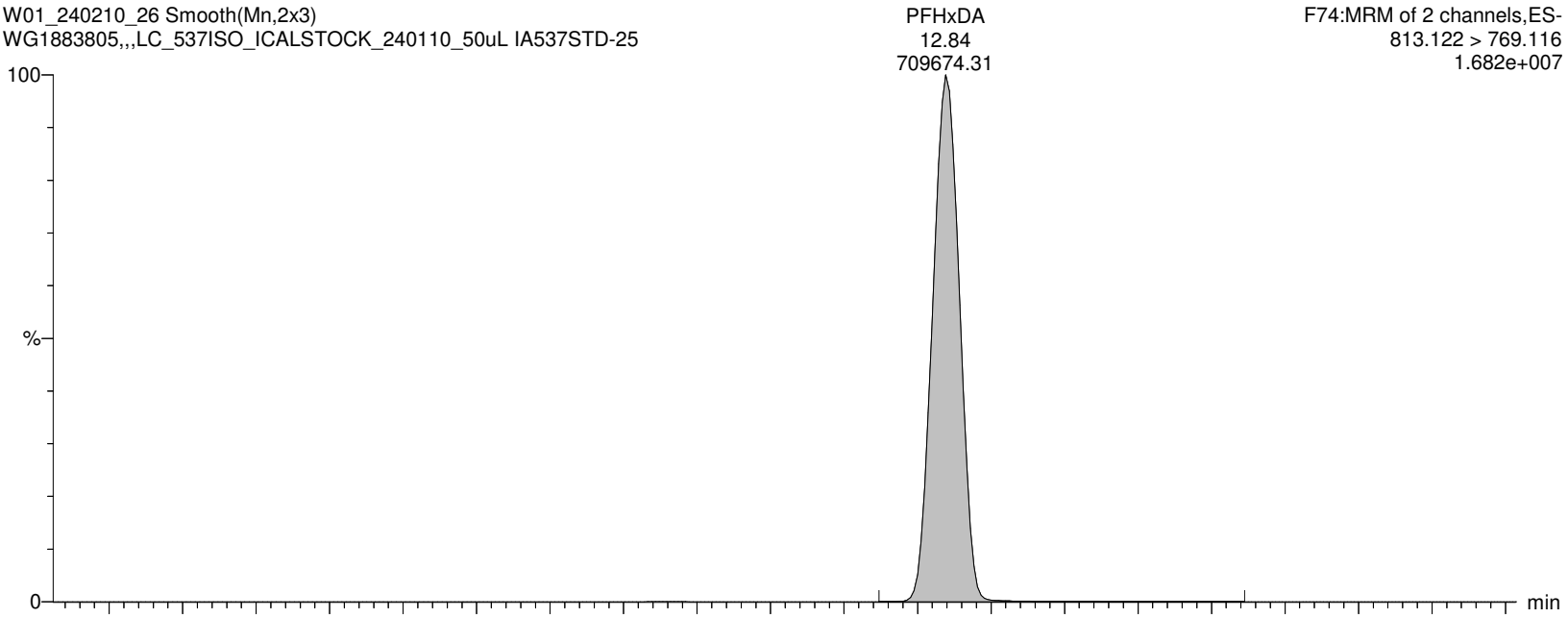

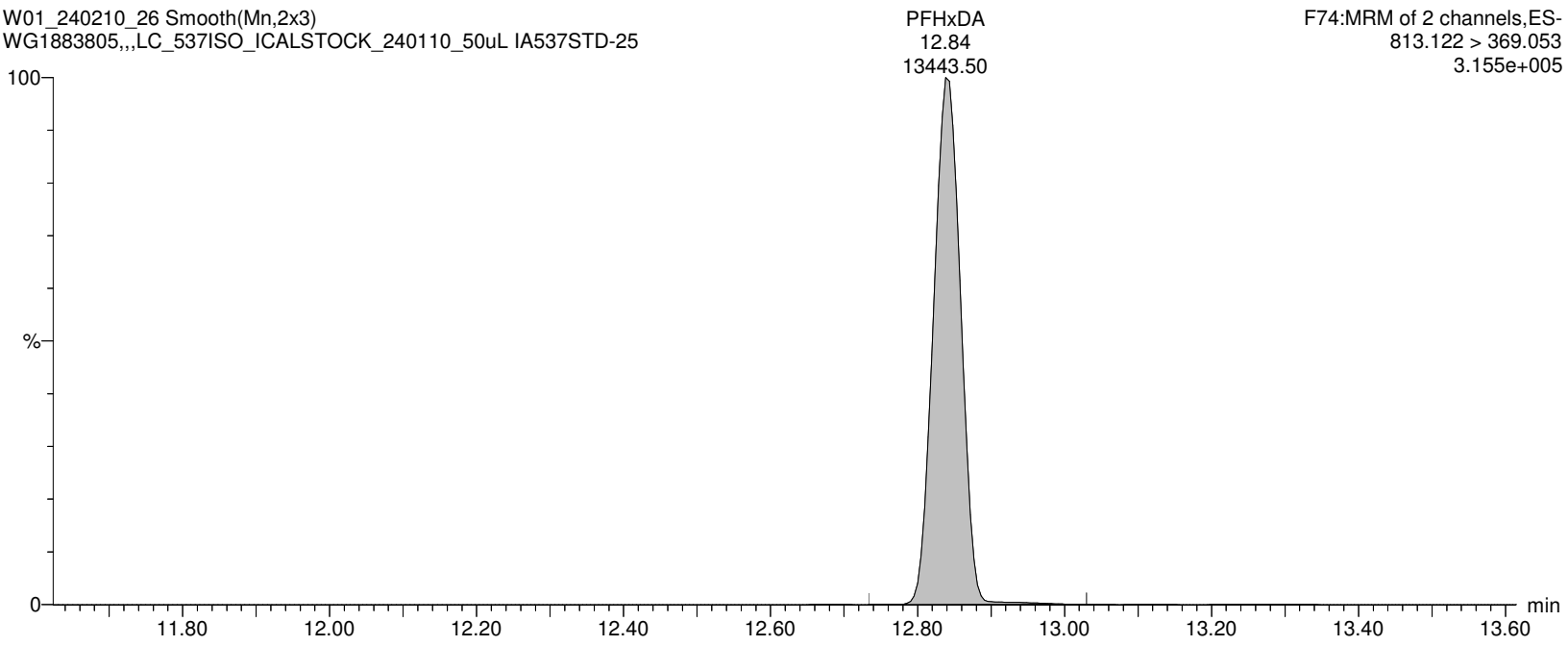

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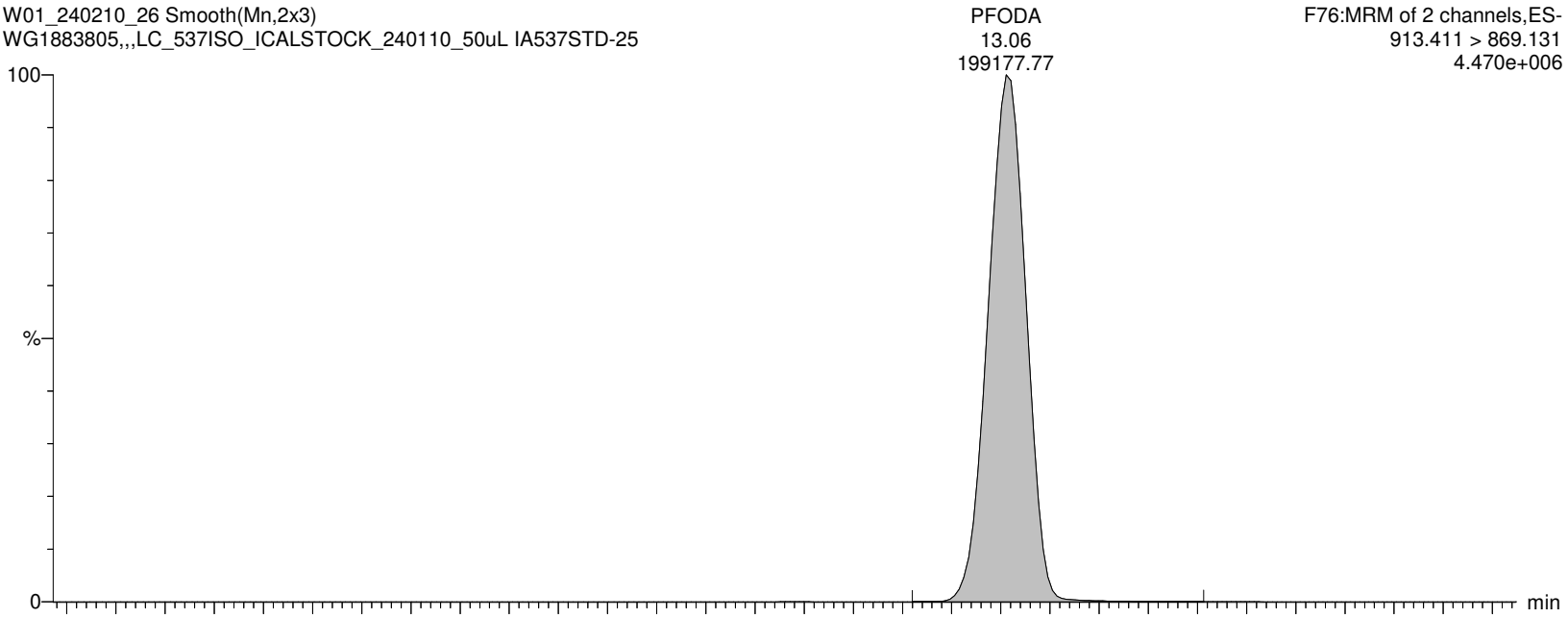

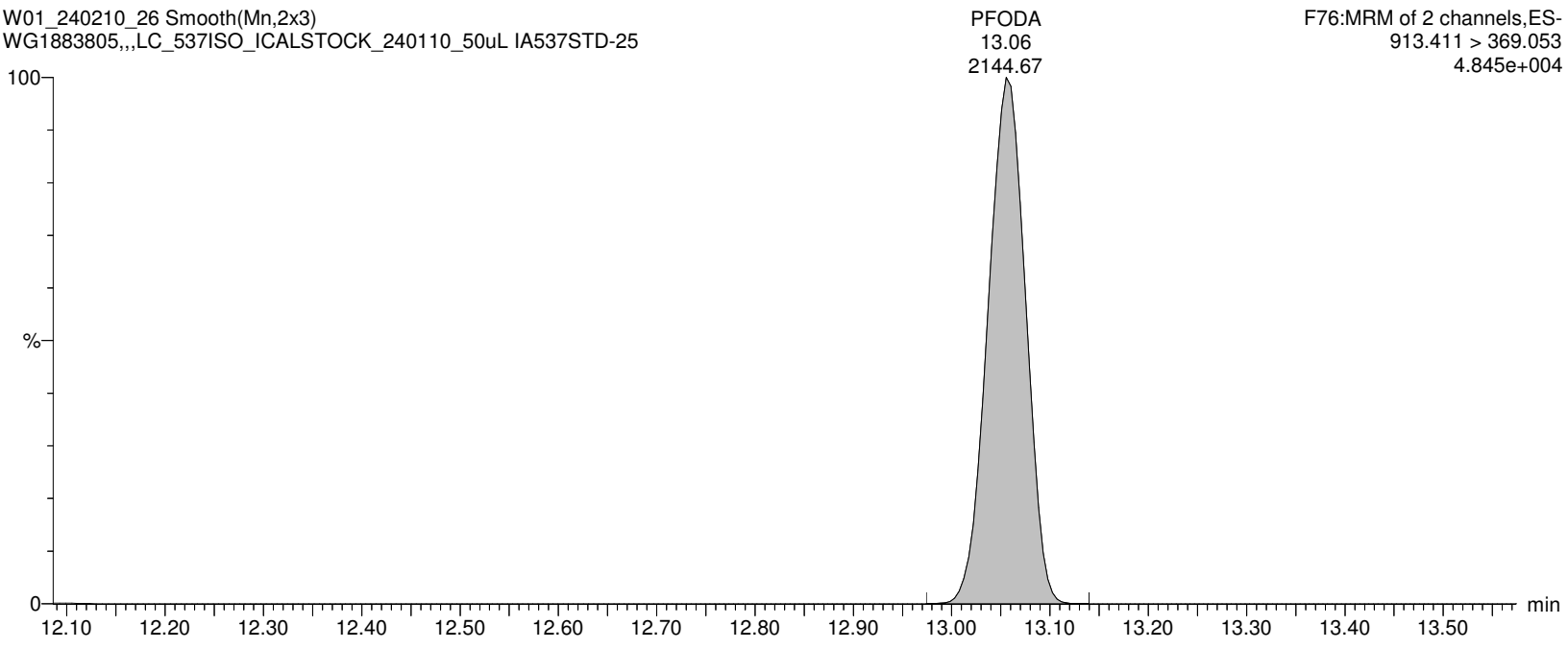

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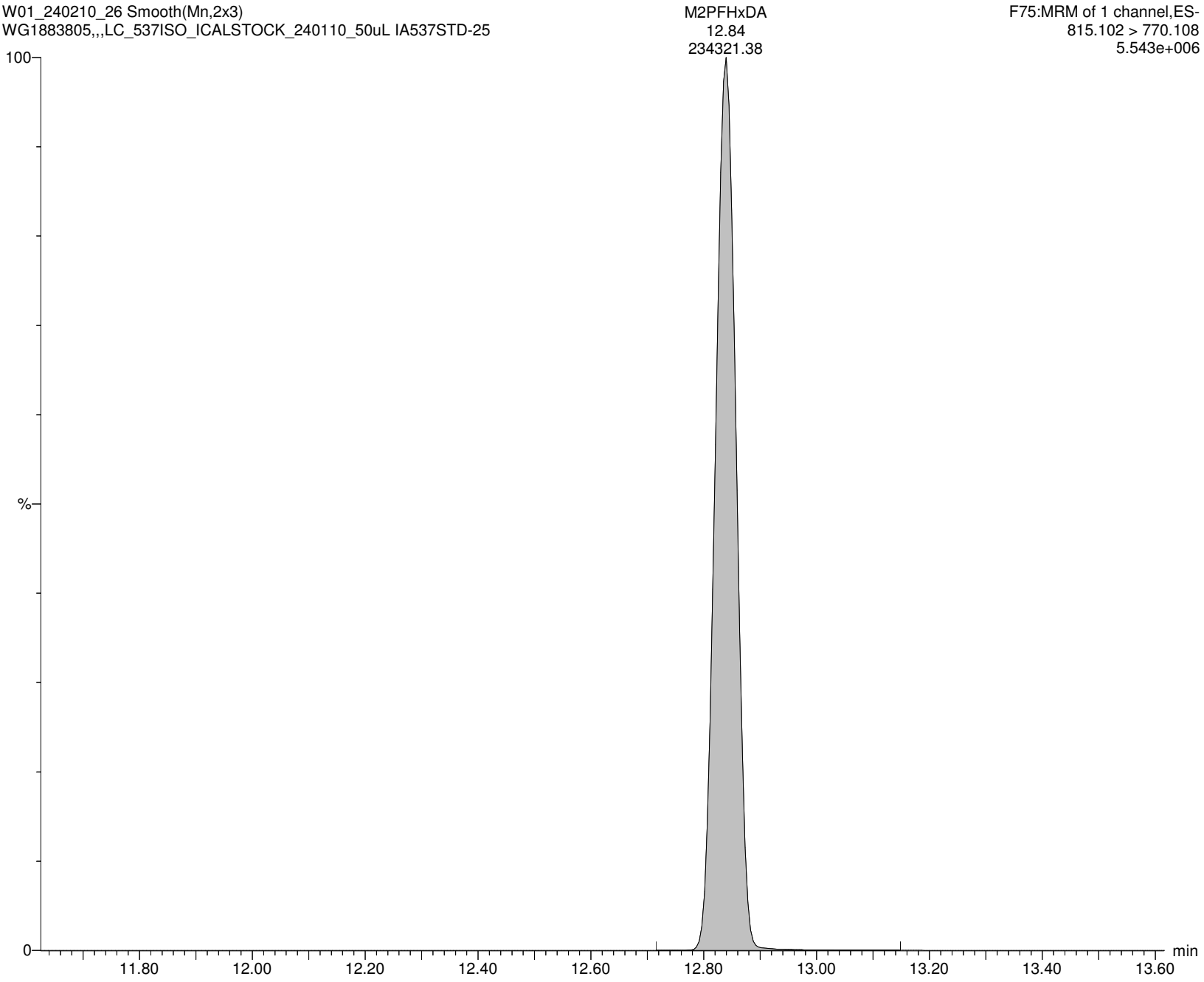

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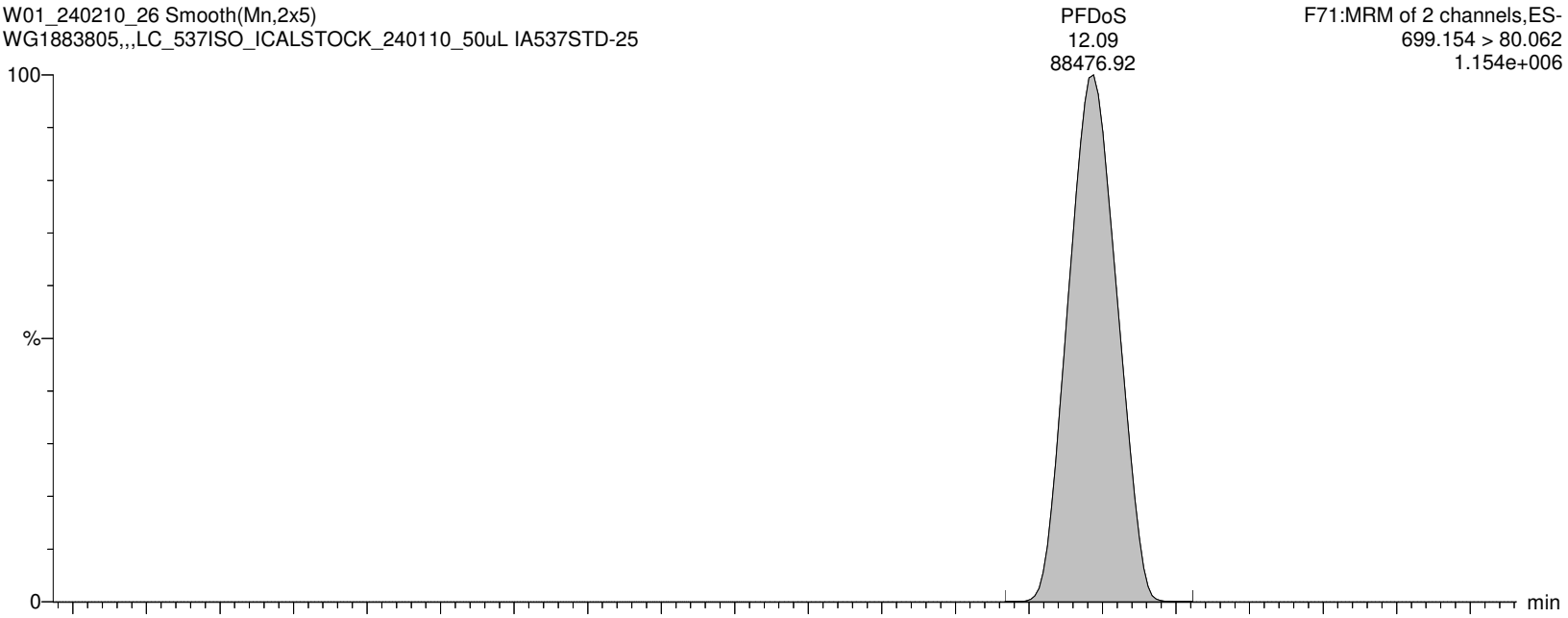

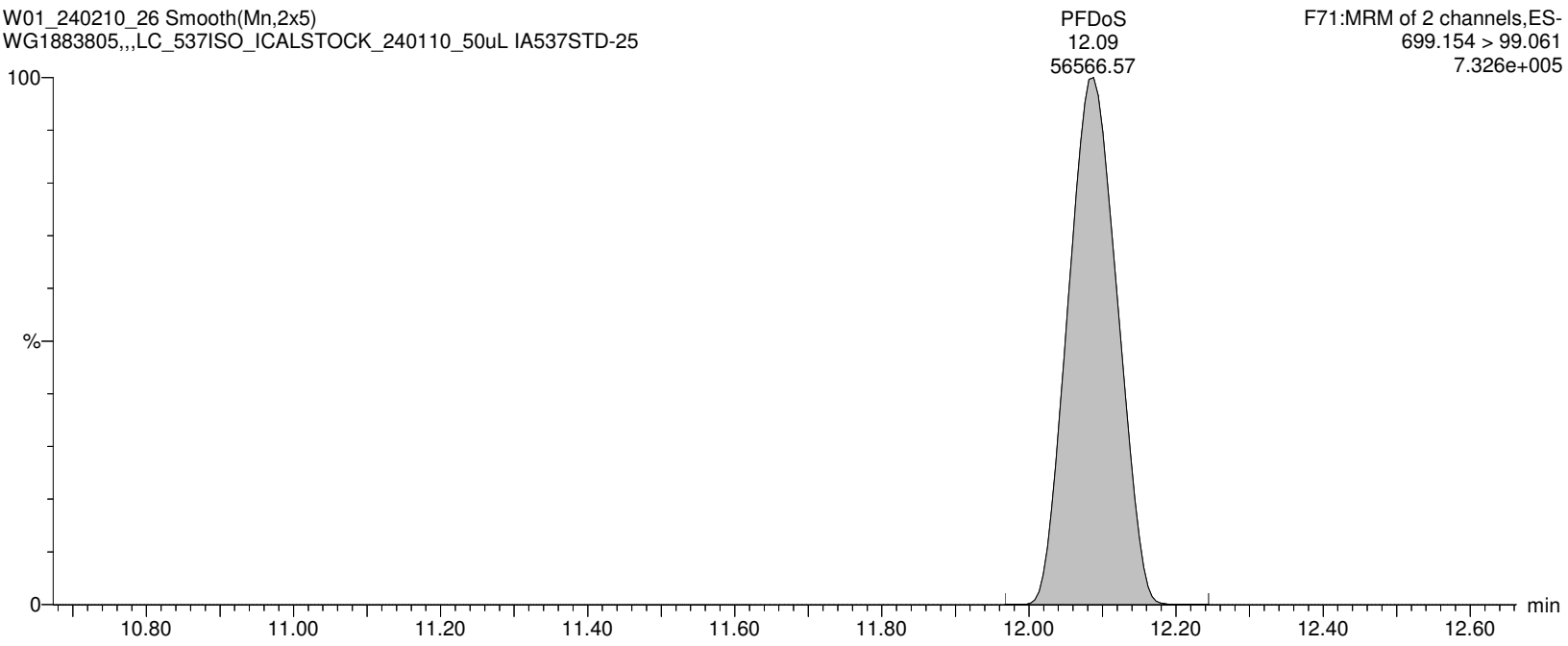

all concentration units in (ng/mL)

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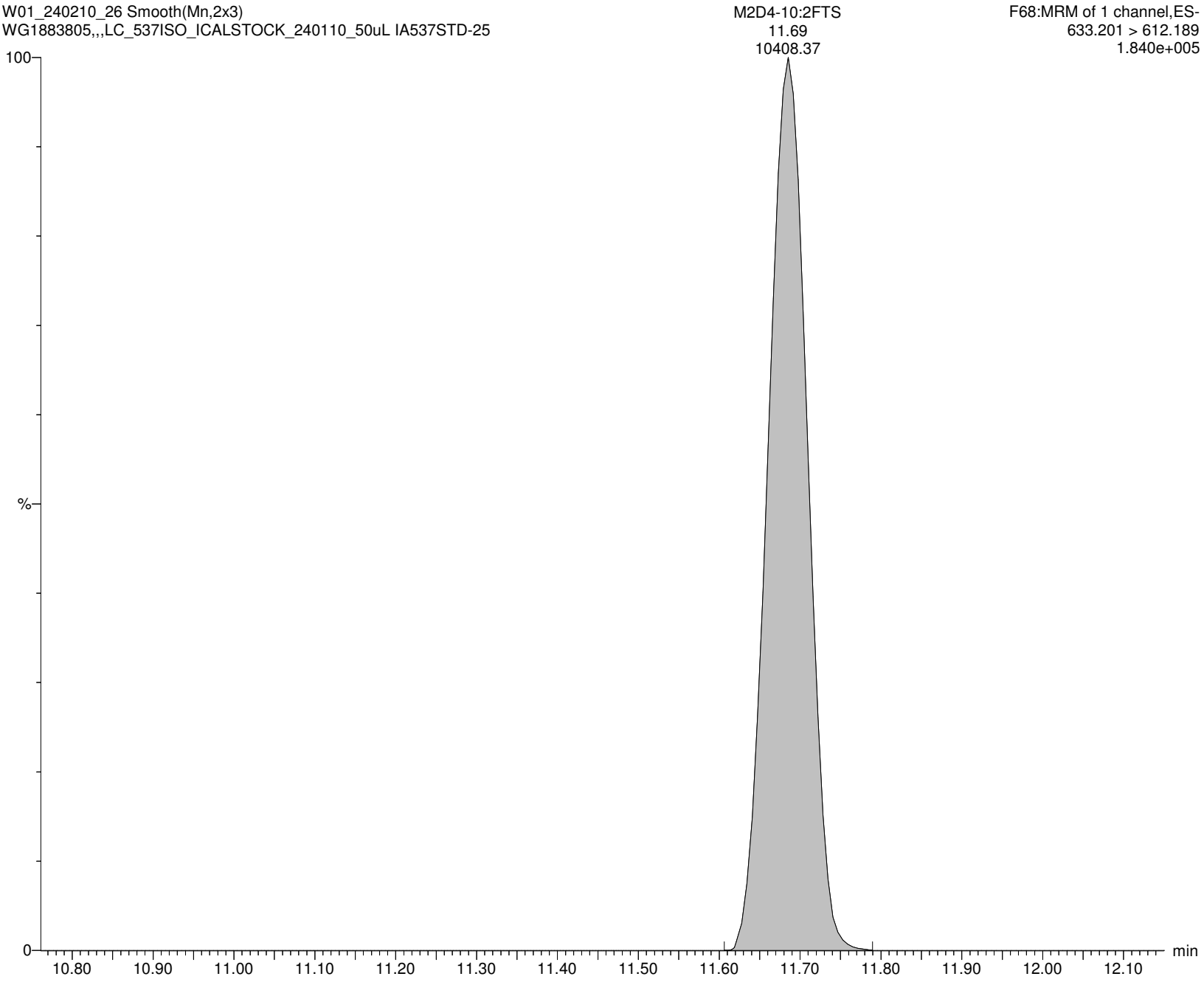

all concentration units in (ng/mL)

Alpha Analytical Inc.
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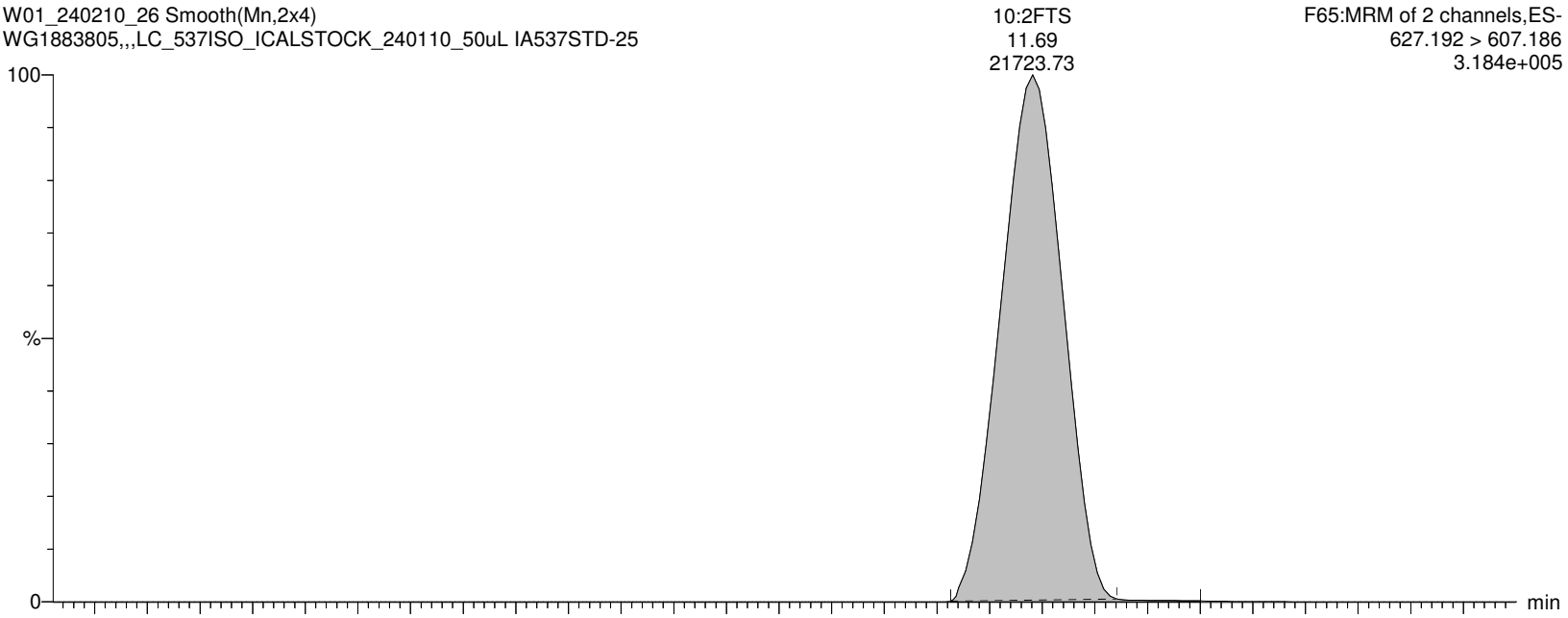
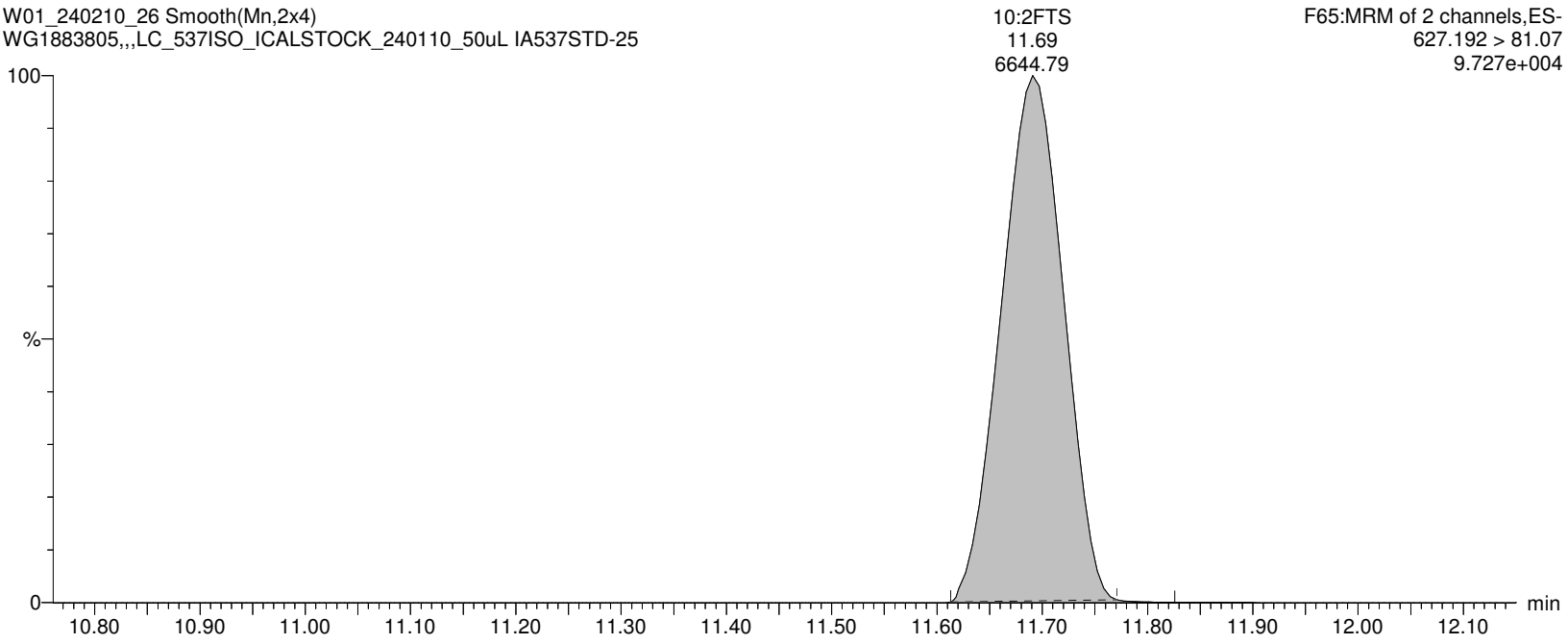
10:2FTS





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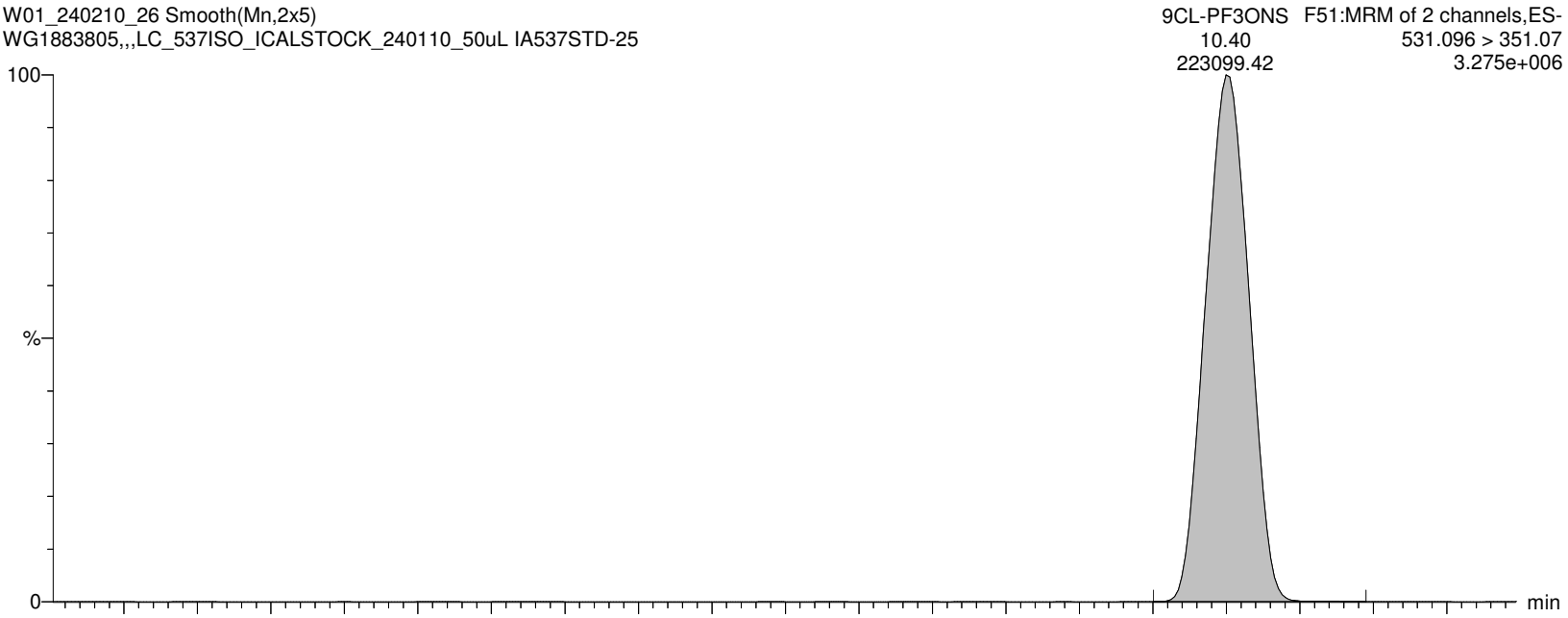
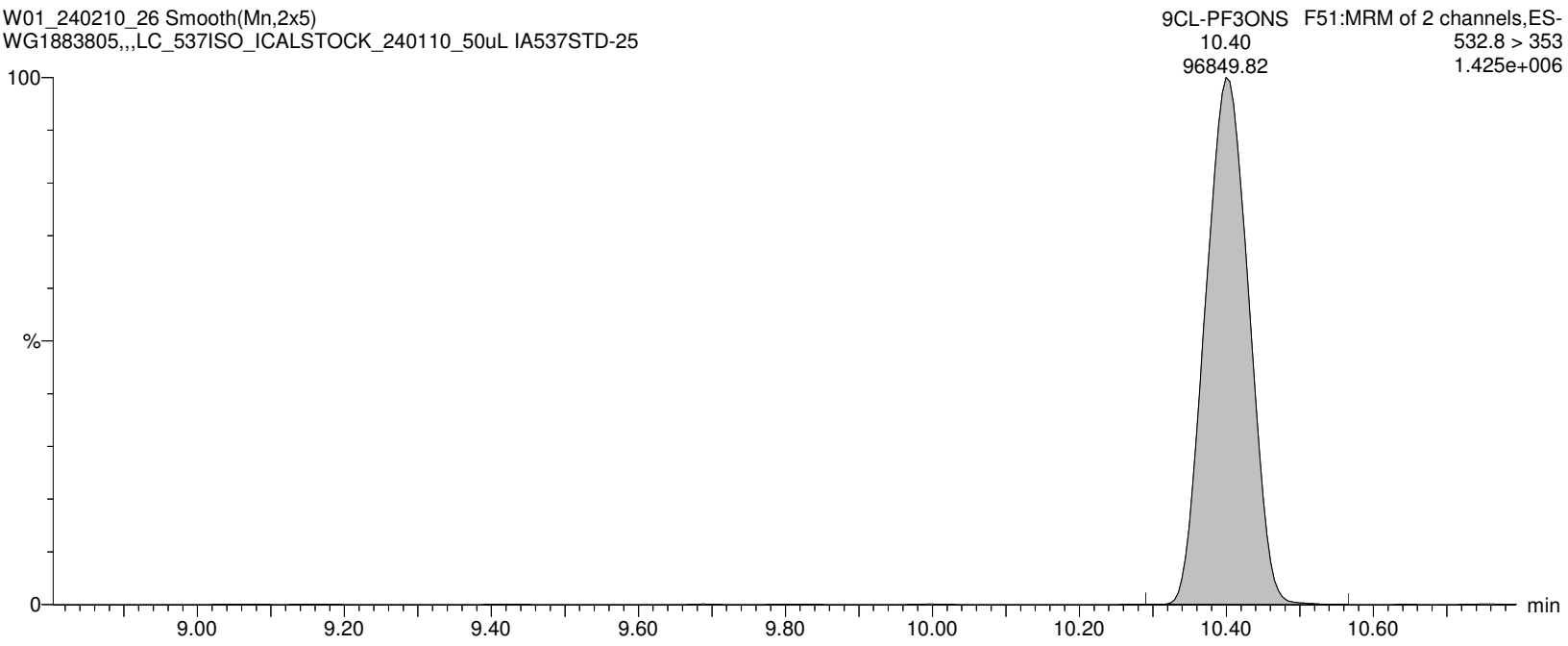
9CL-PF3ONS





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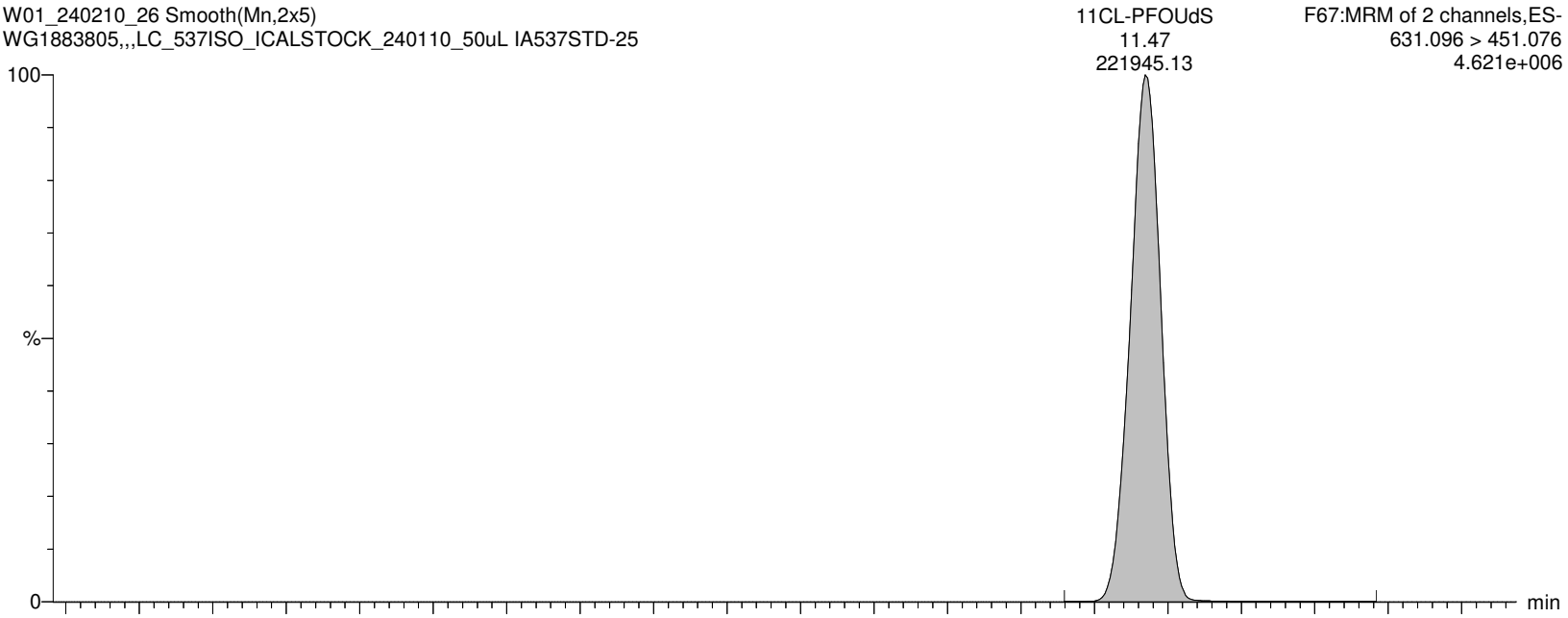
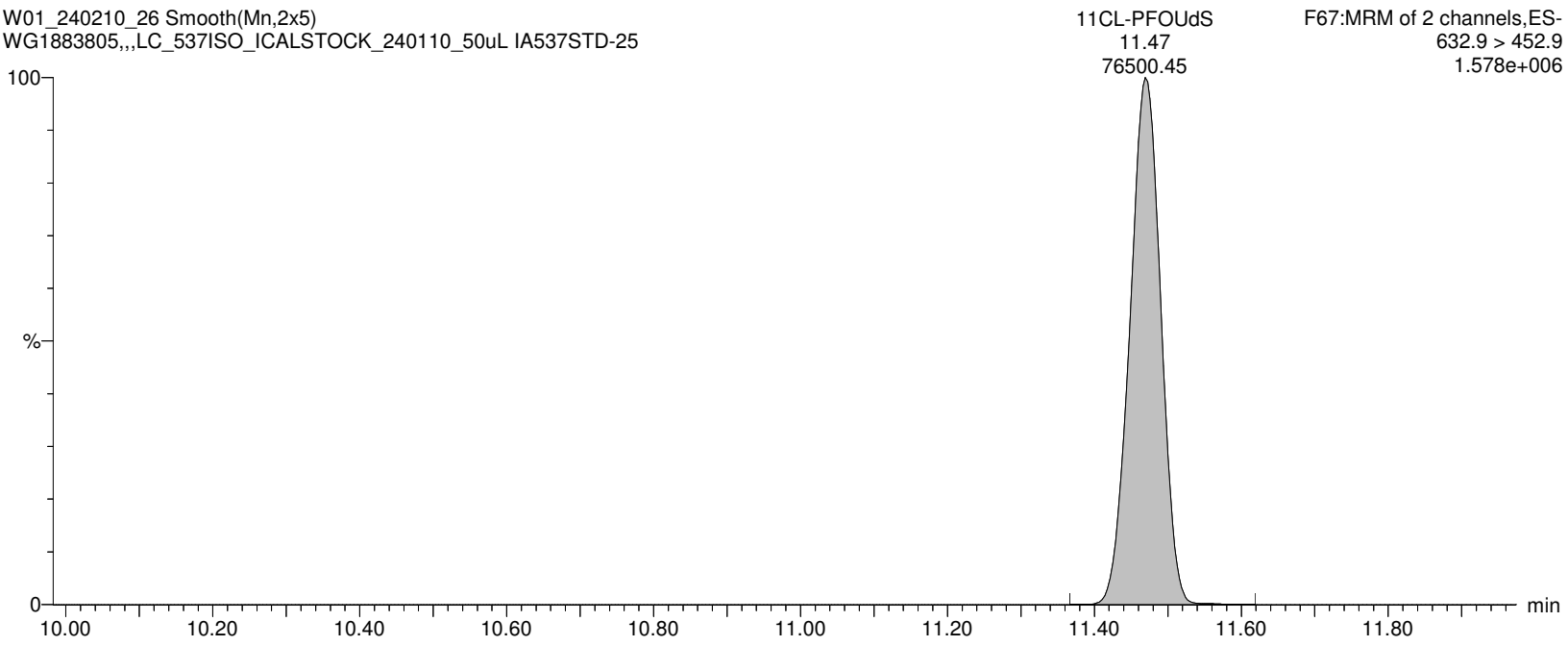
11CL-PFOUdS





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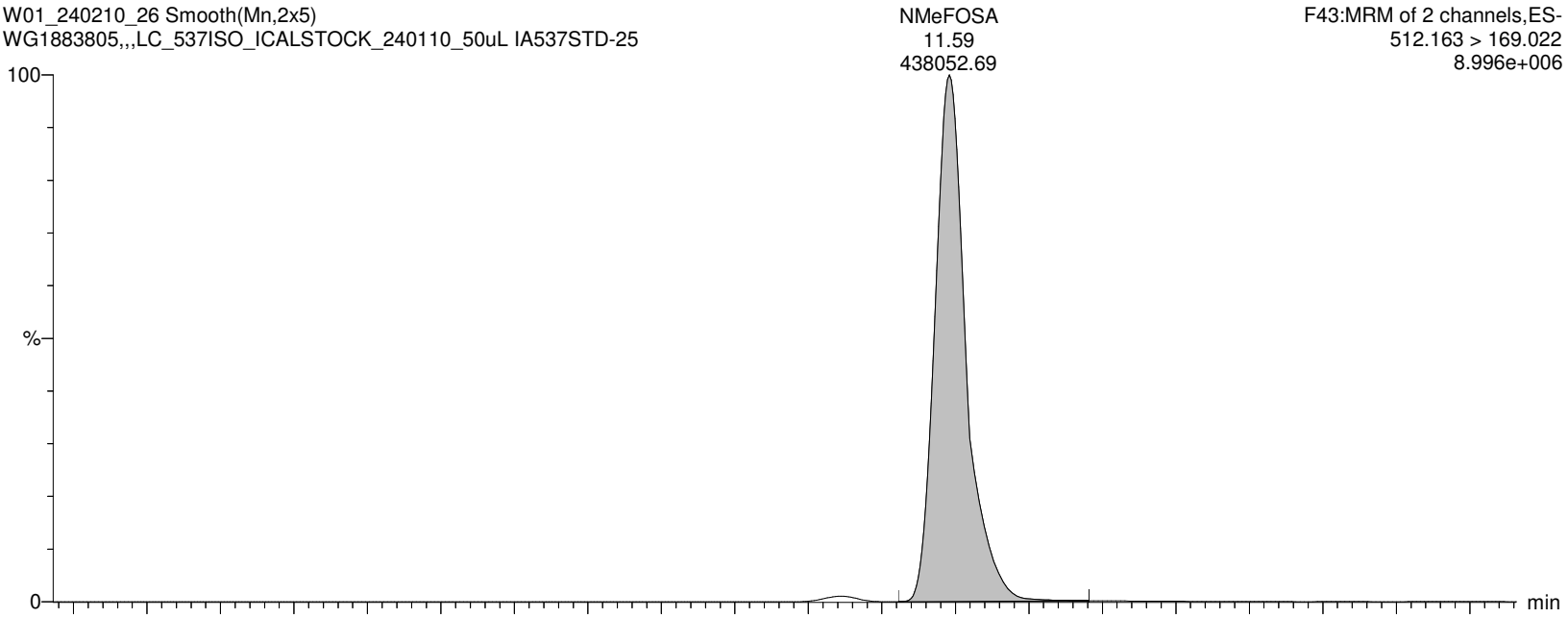

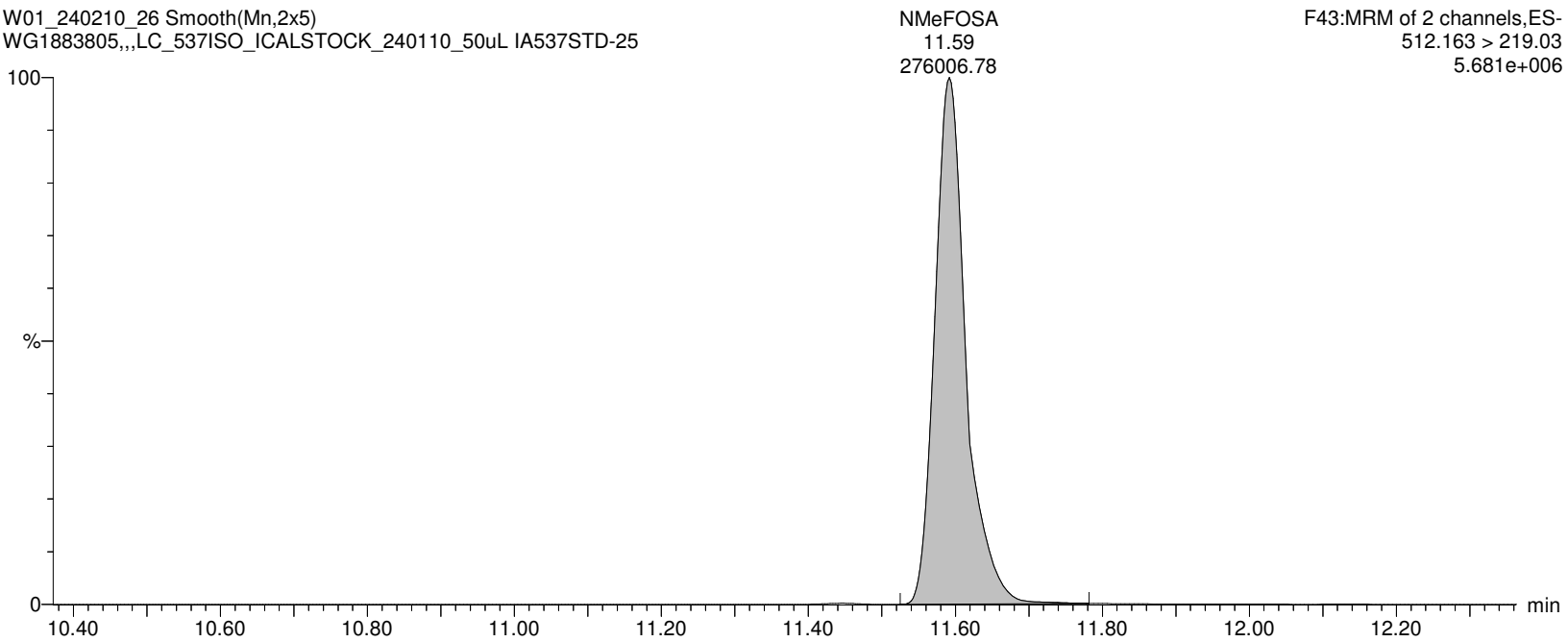

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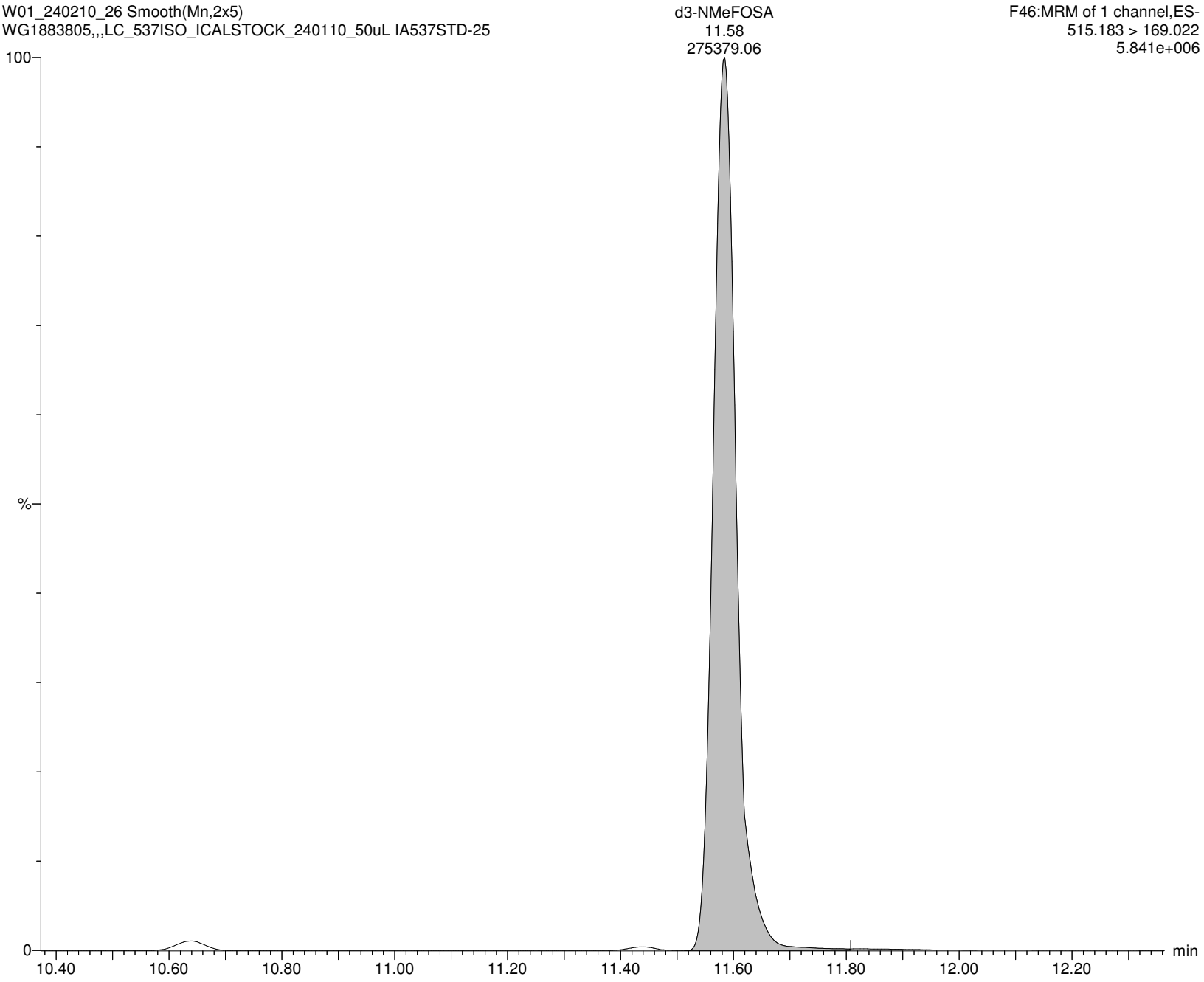
d3-NMeFOSA



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Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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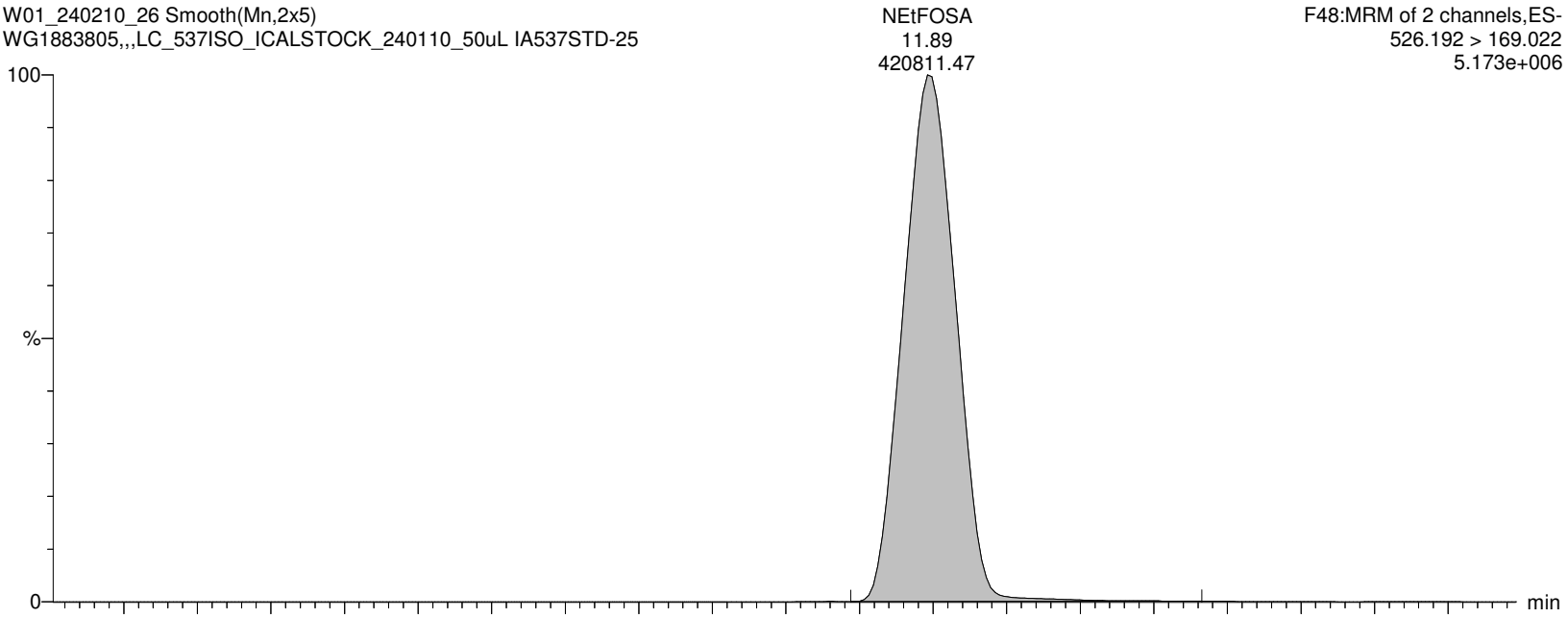

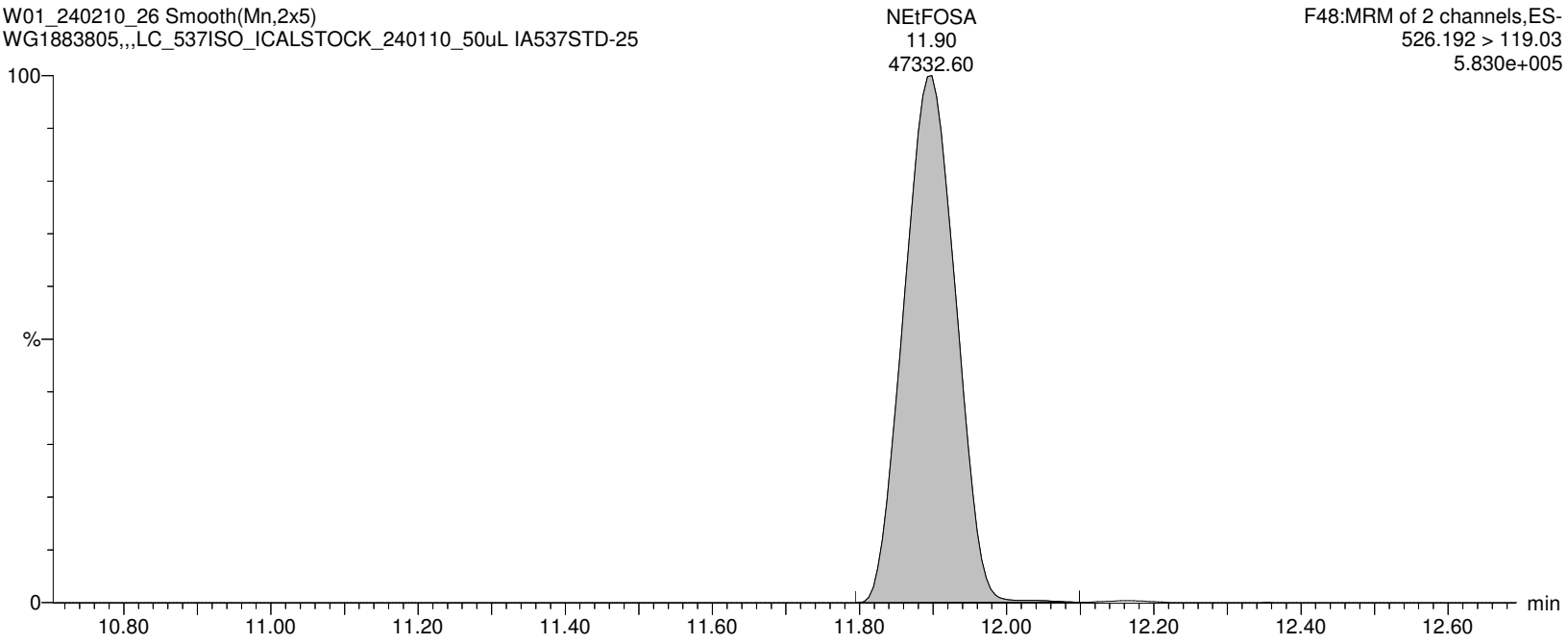

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:19 Eastern Standard Time

Name: W01_240210_26
ID: IA537STD-25
Date: 10-Feb-2024
Time: 17:36:15
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_50uL
User: LCMS01:SG
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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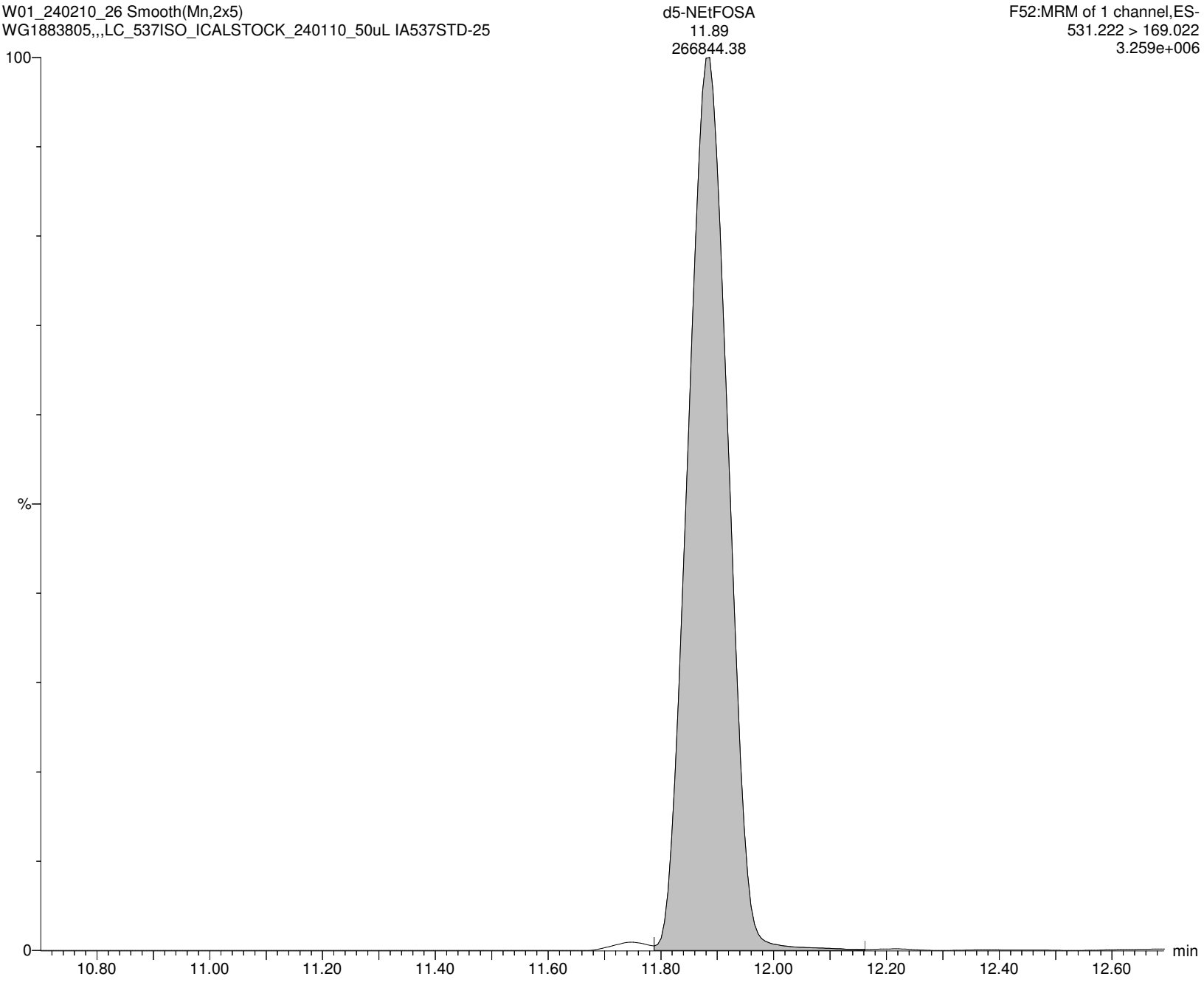

all concentration units in (ng/mL)

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Vial: 1:B,6
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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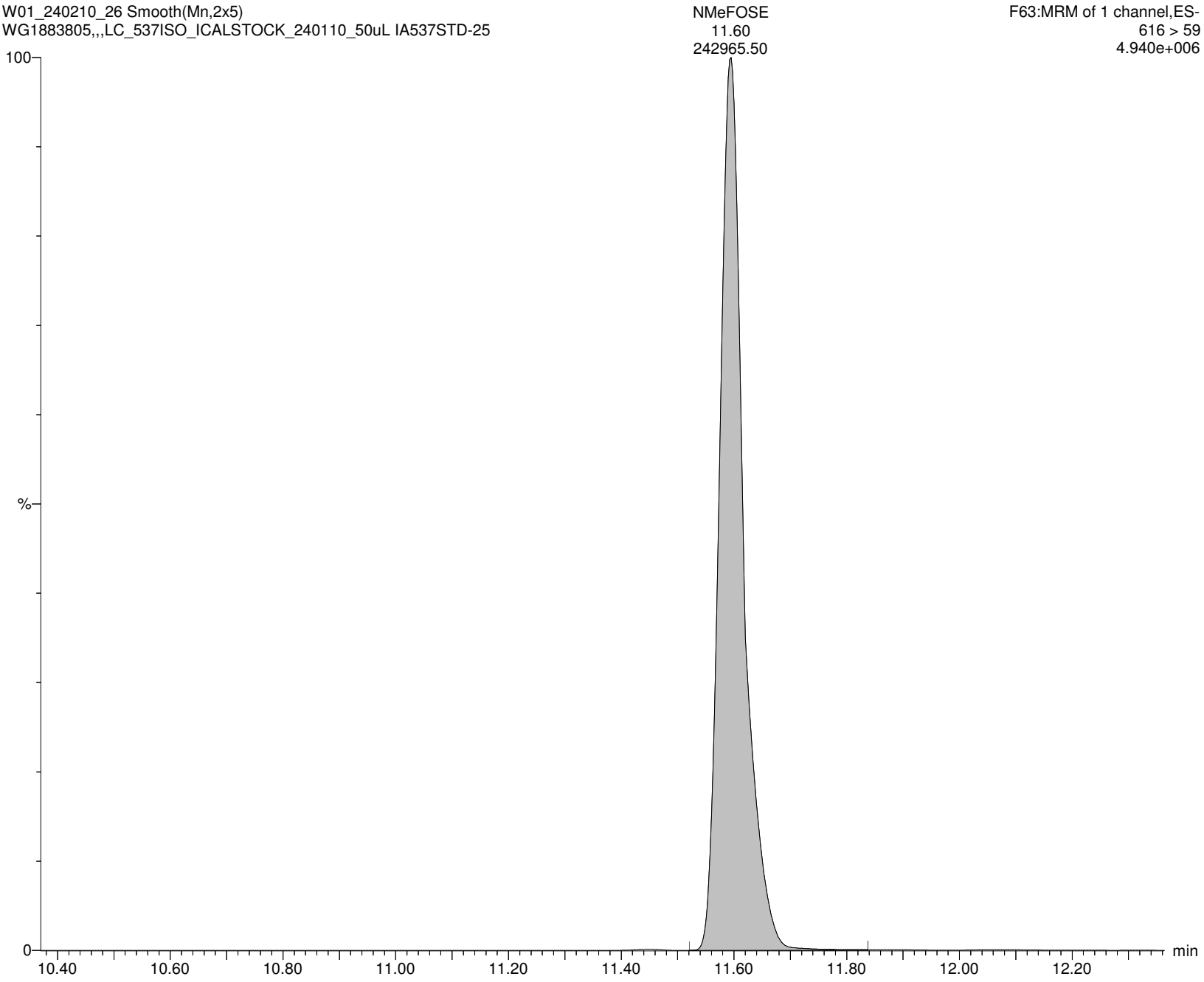

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Vial: 1:B,6
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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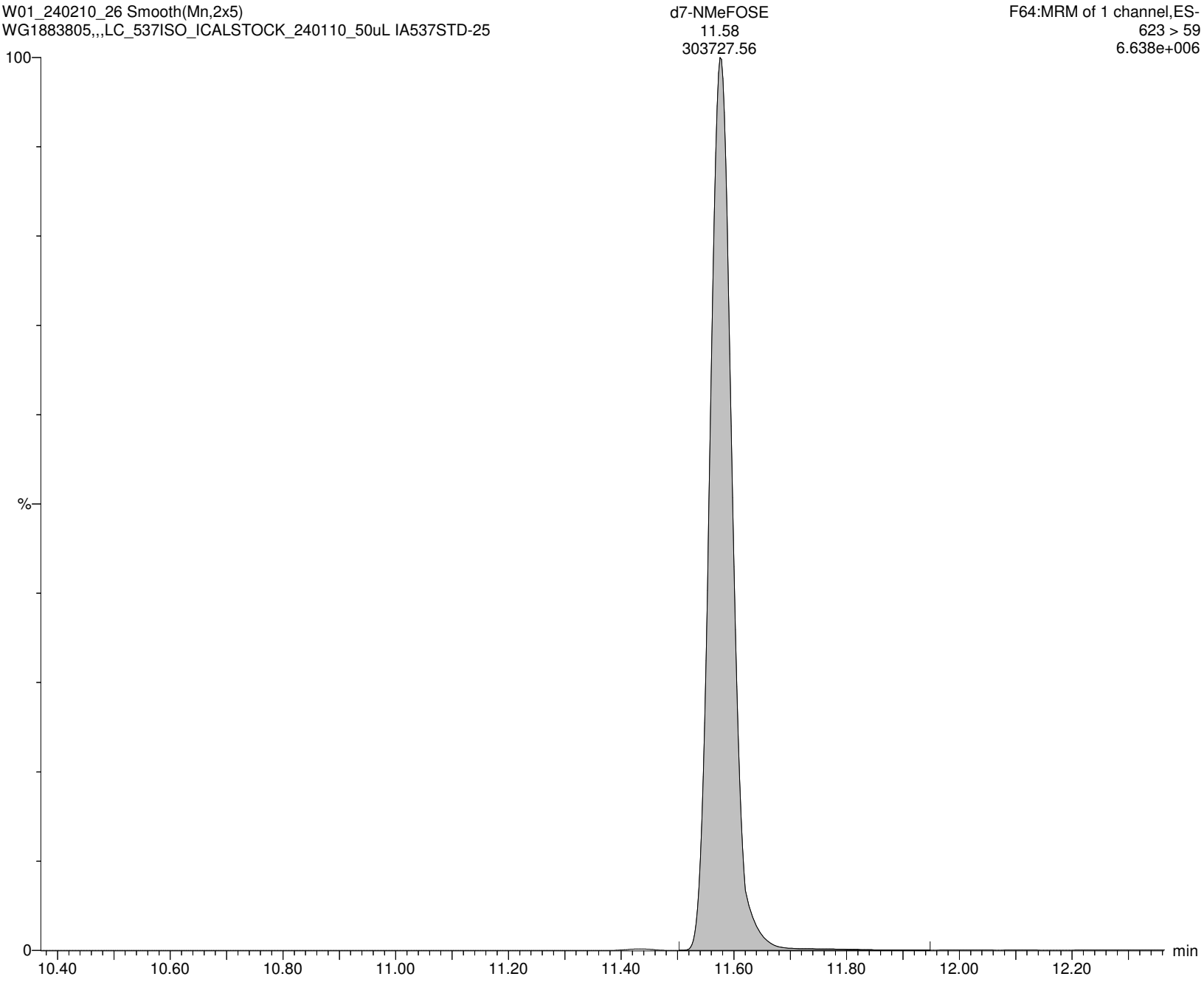

all concentration units in (ng/mL)

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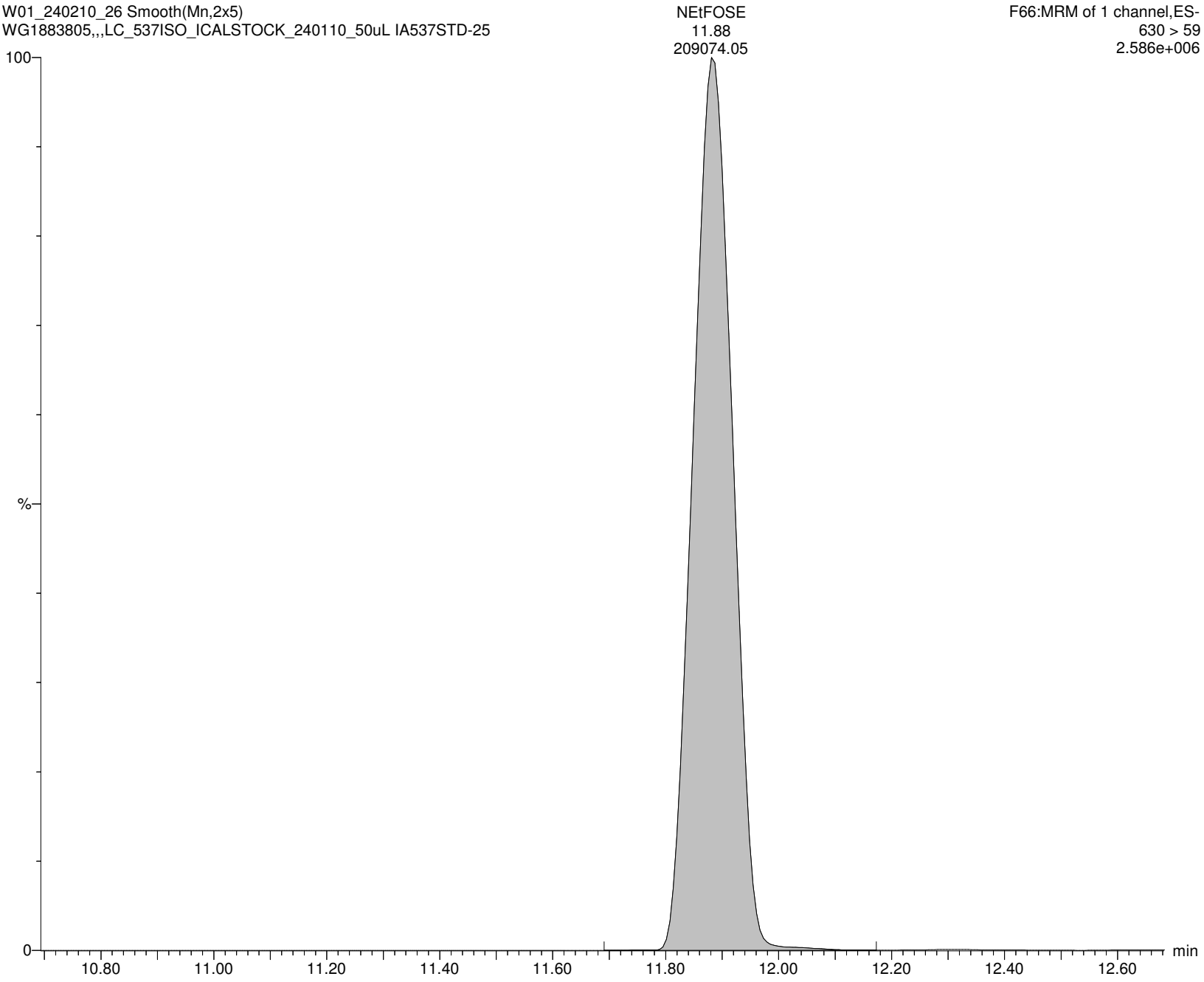
NEtFOSE



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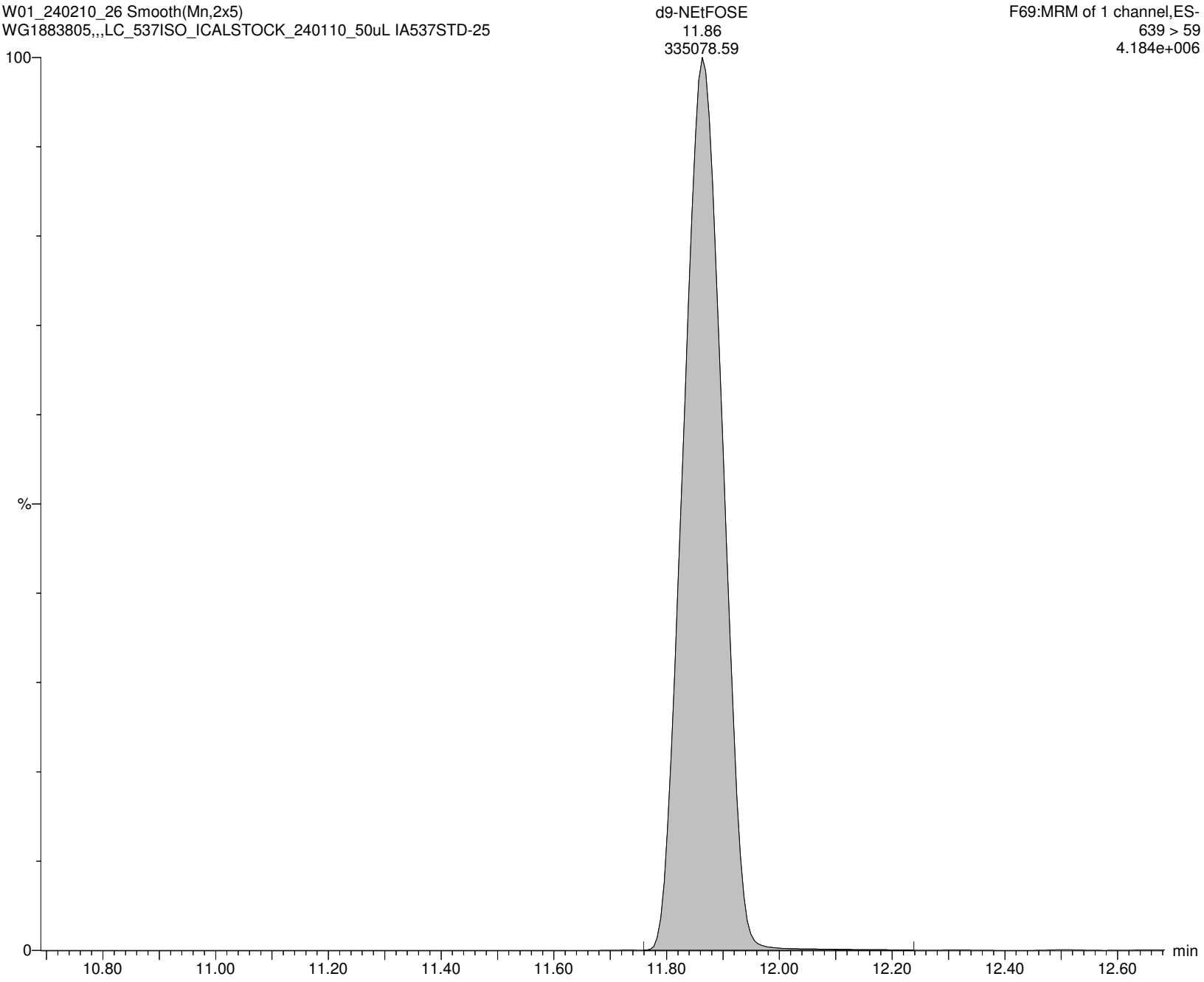
d9-NEtFOSE



all concentration units in (ng/mL)

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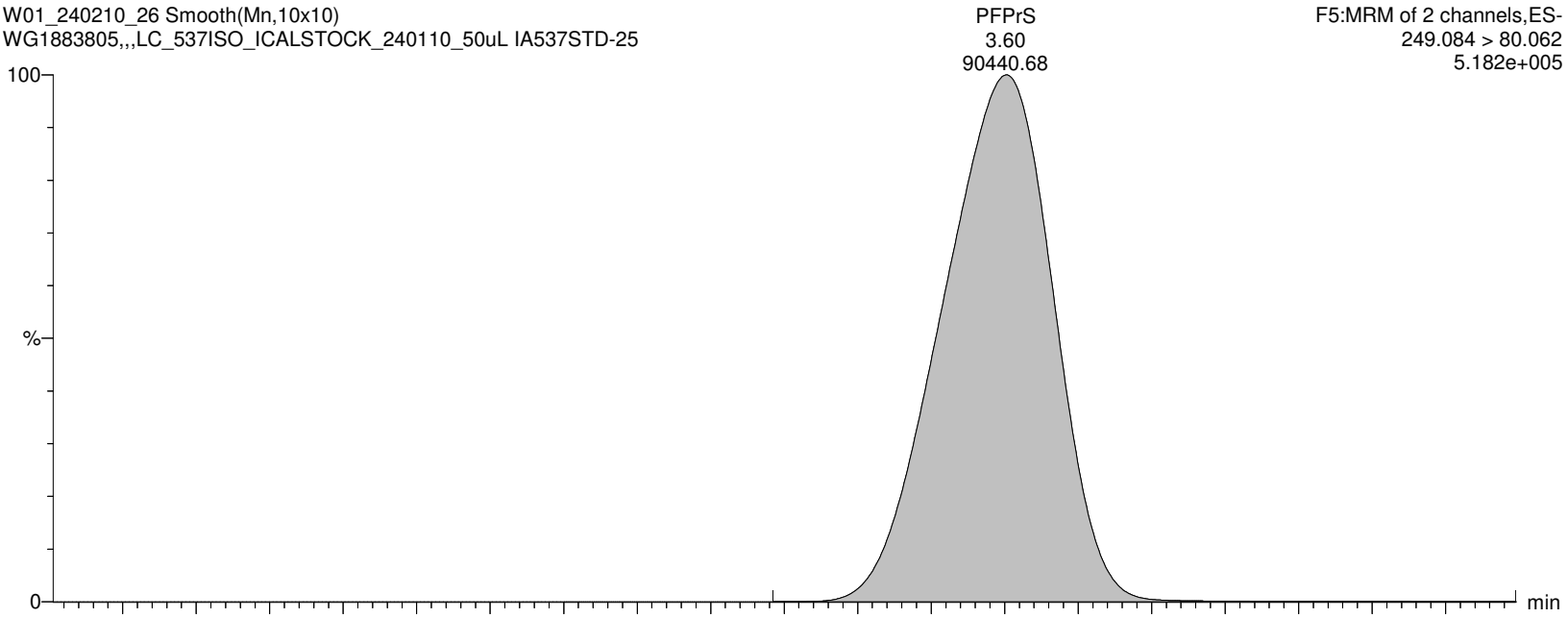

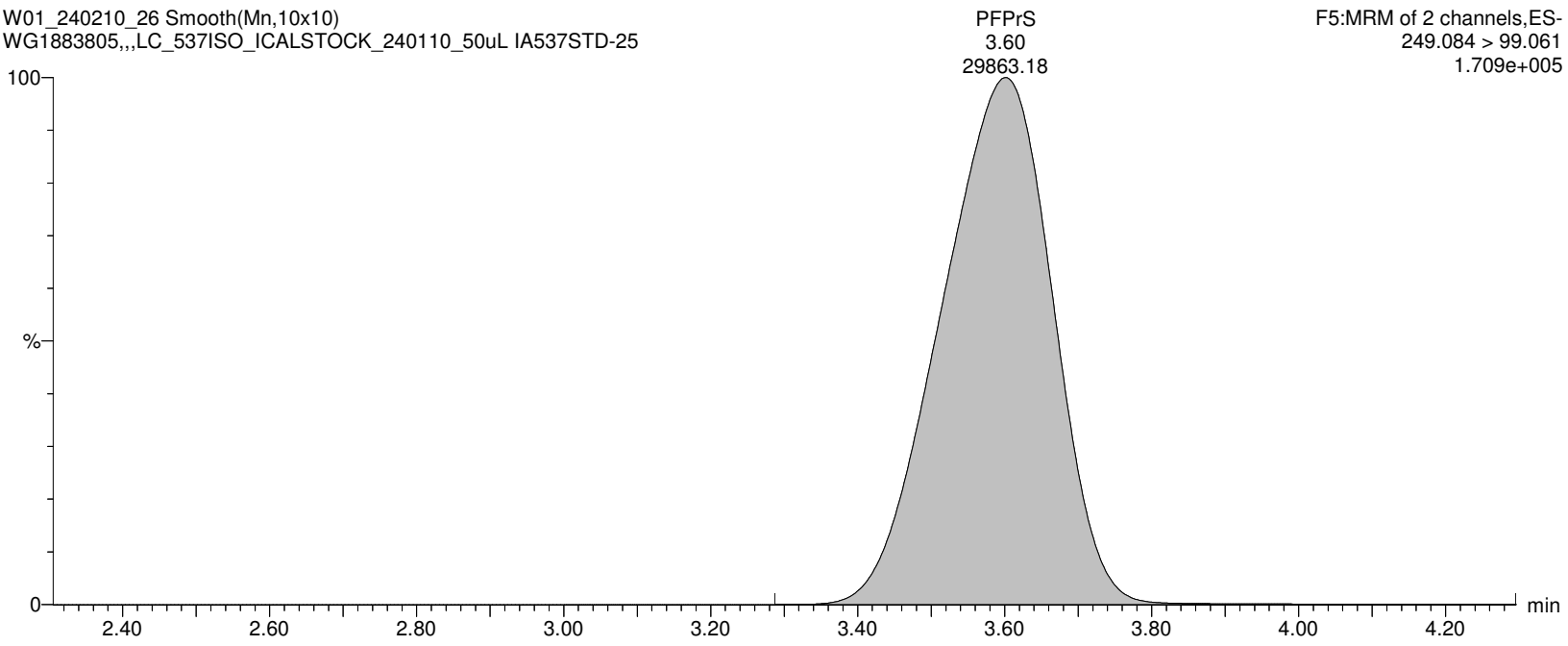

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Vial: 1:B,6
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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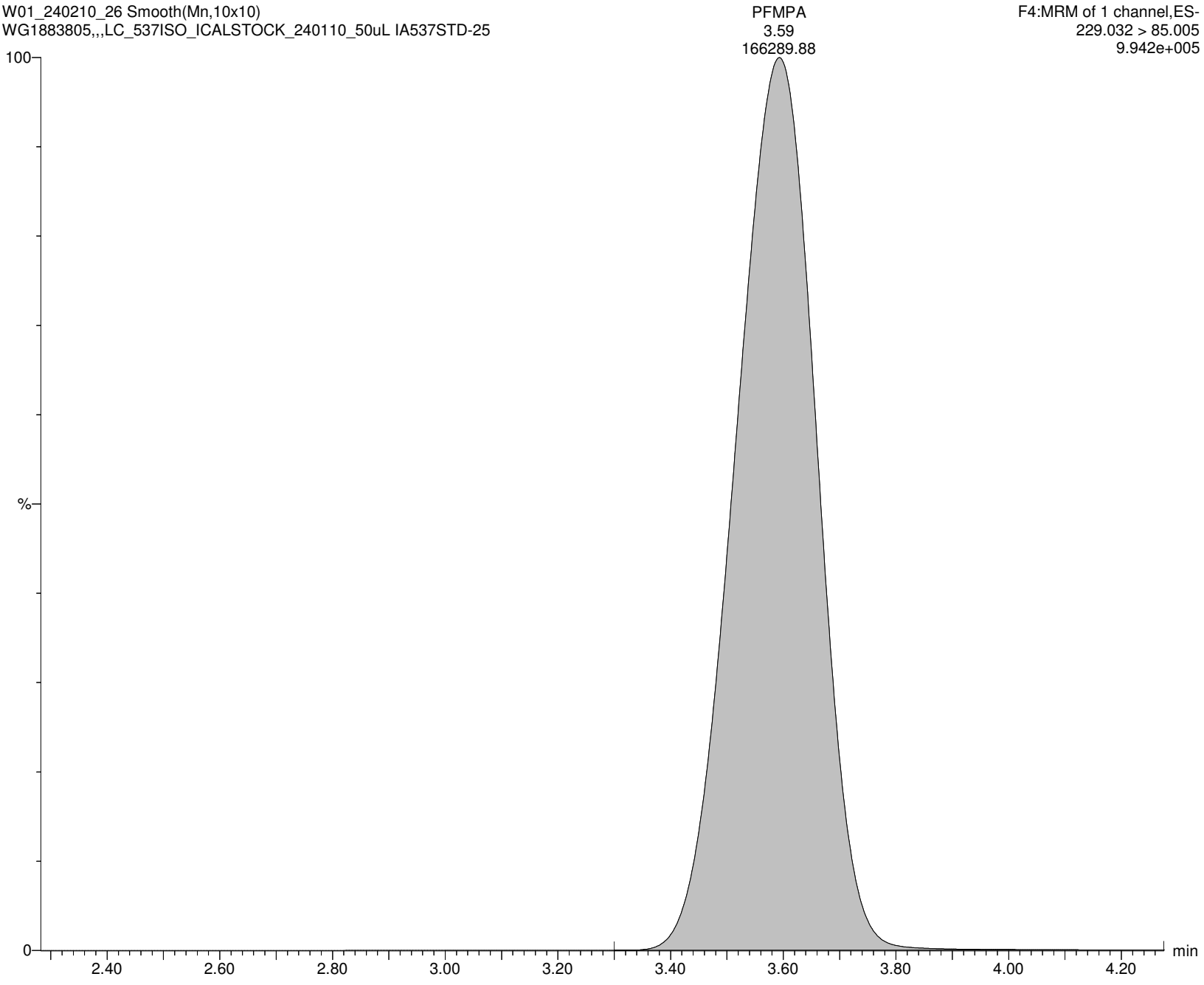

all concentration units in (ng/mL)

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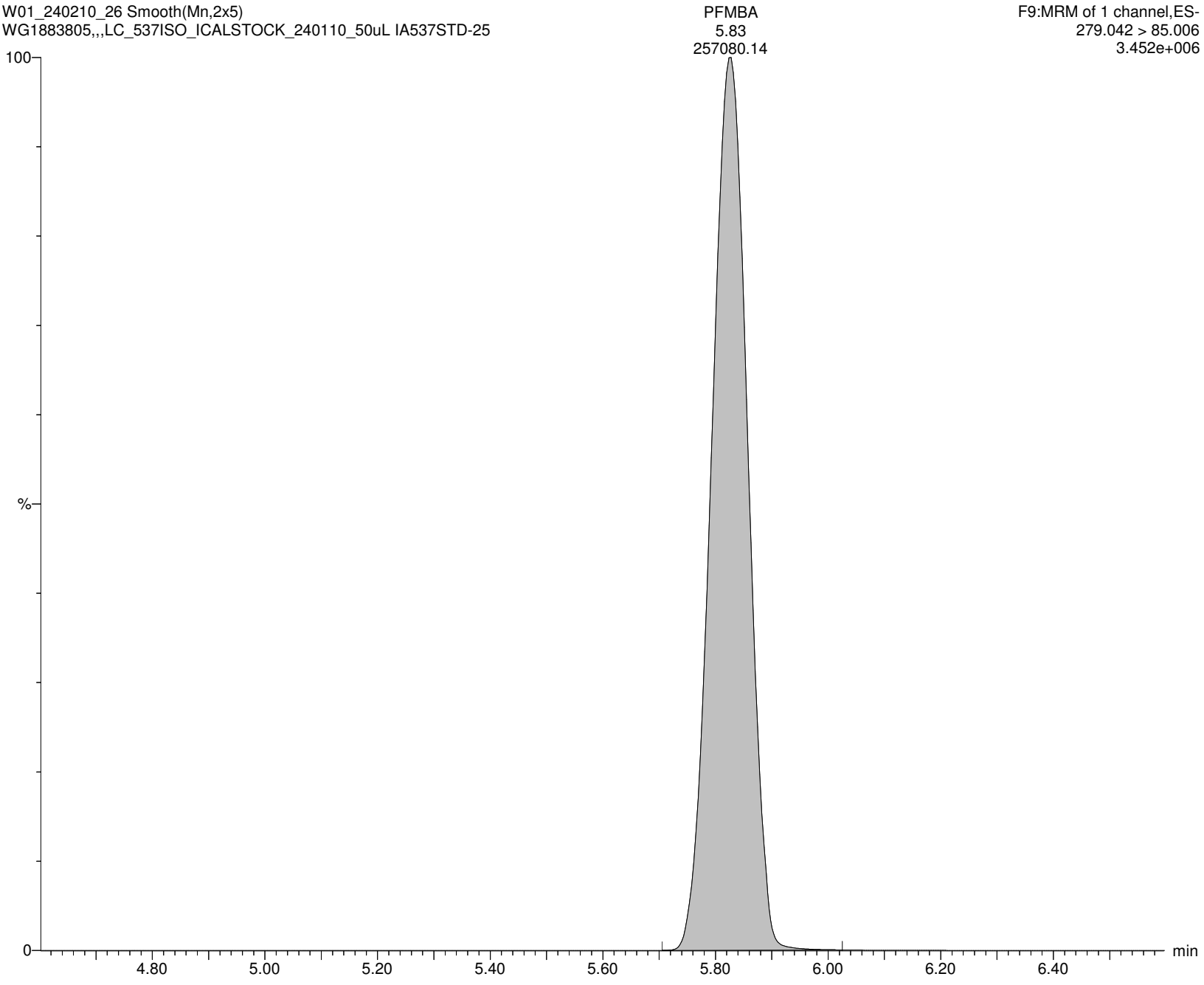

all concentration units in (ng/mL)

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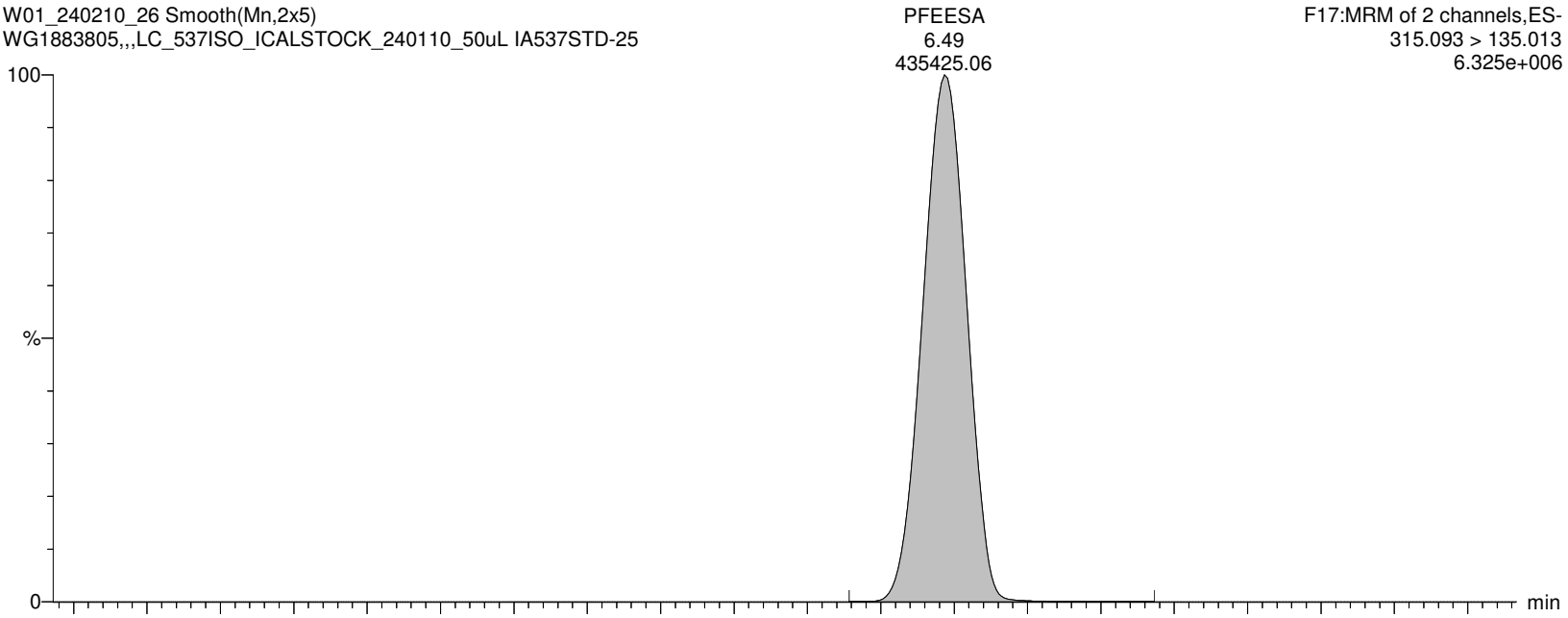

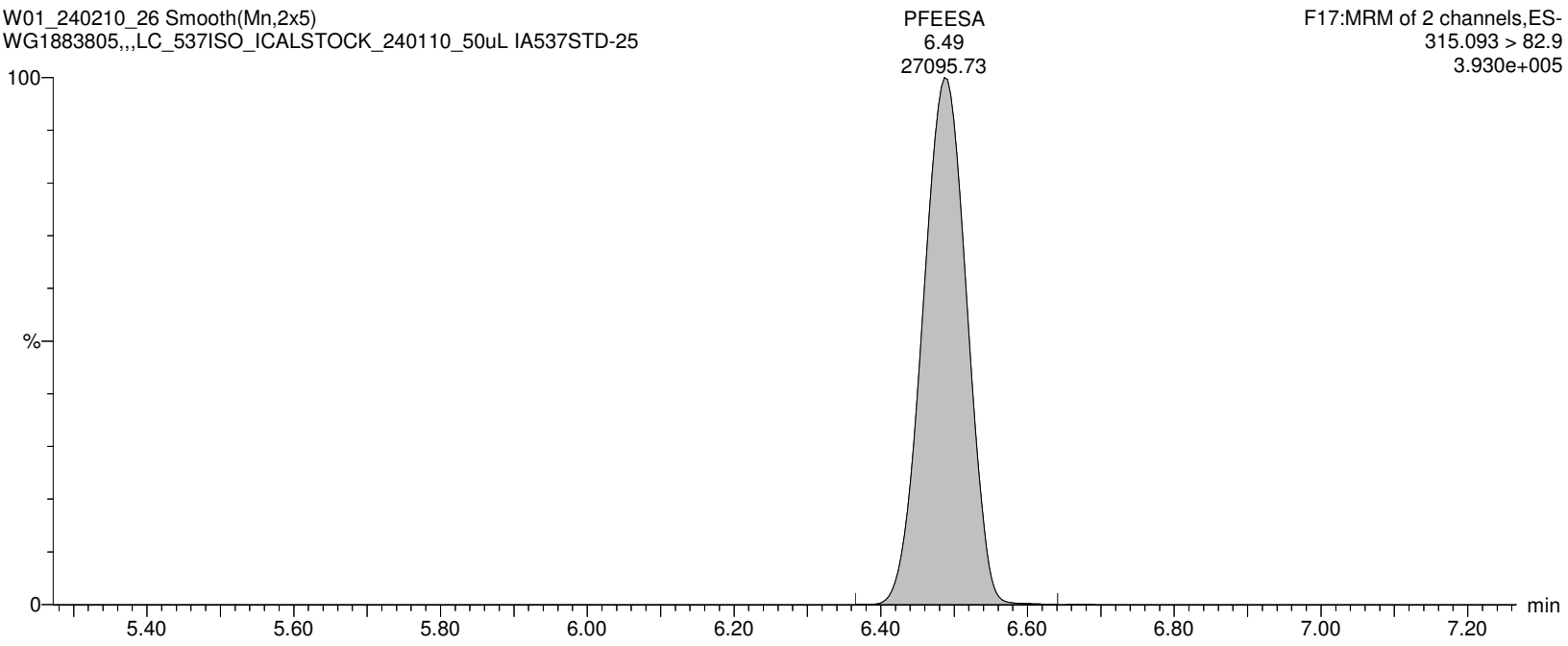

all concentration units in (ng/mL)

Alpha Analytical Inc.
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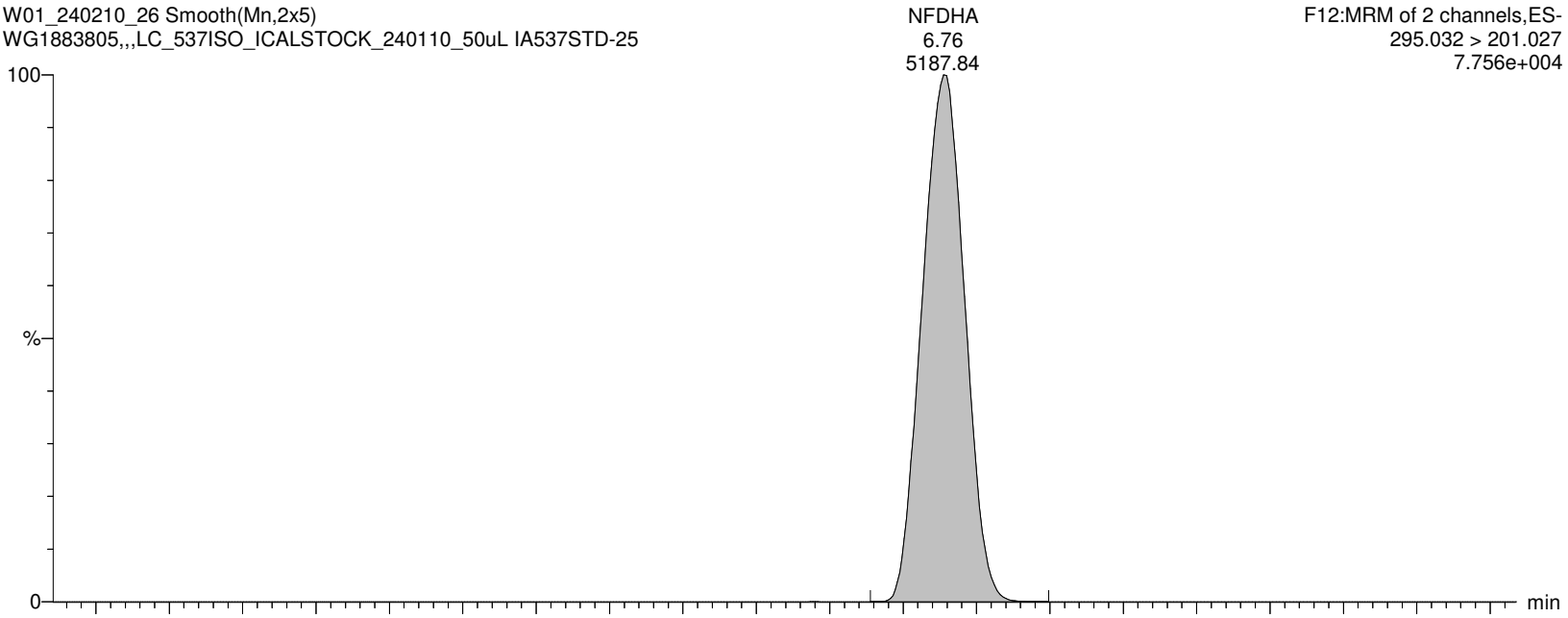
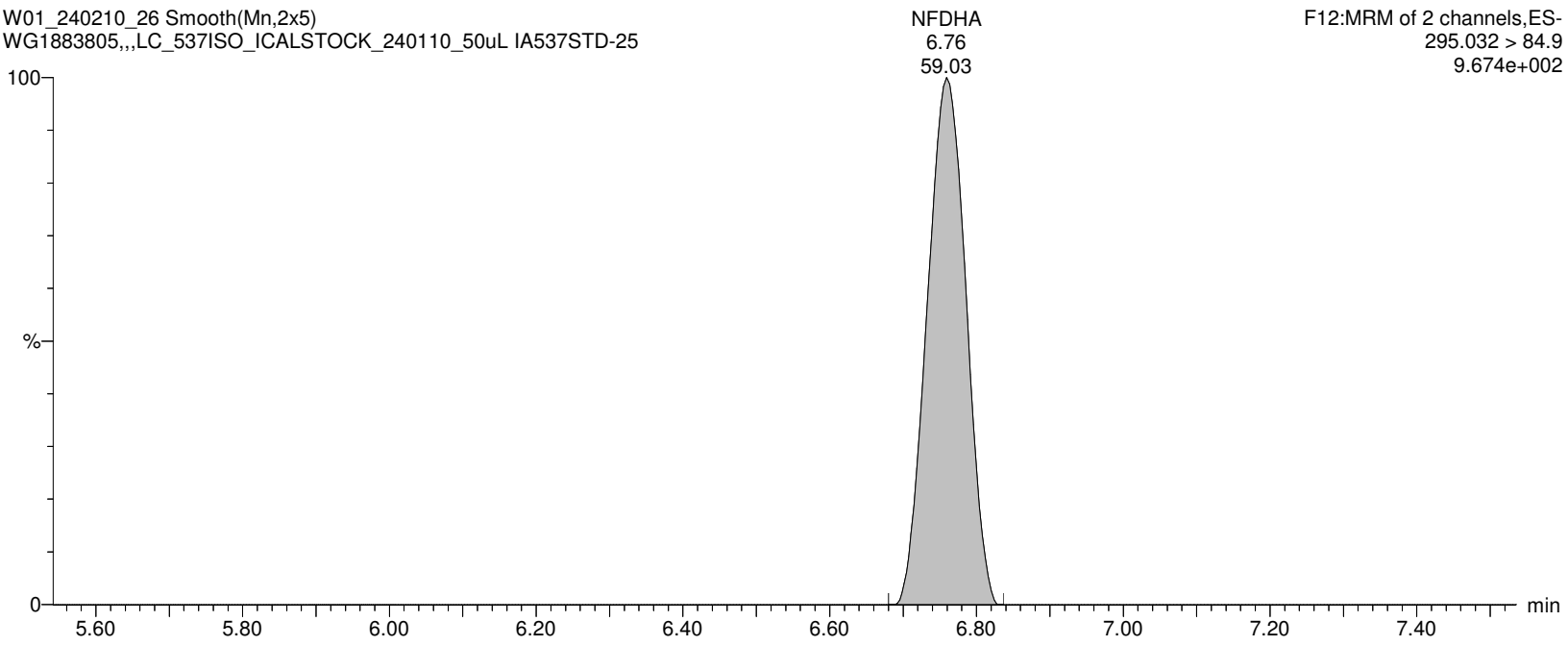
NFDHA





all concentration units in (ng/mL)

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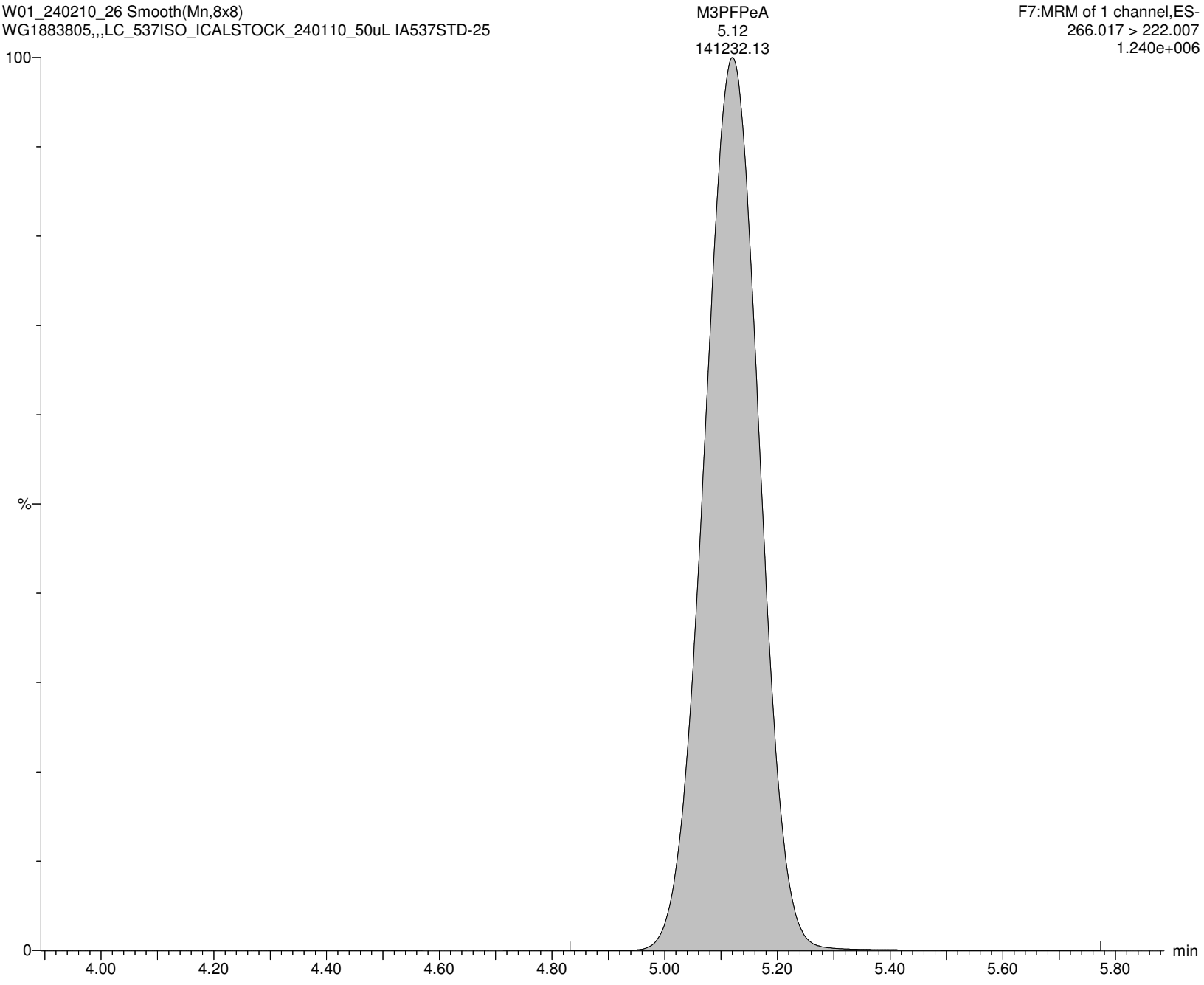

all concentration units in (ng/mL)

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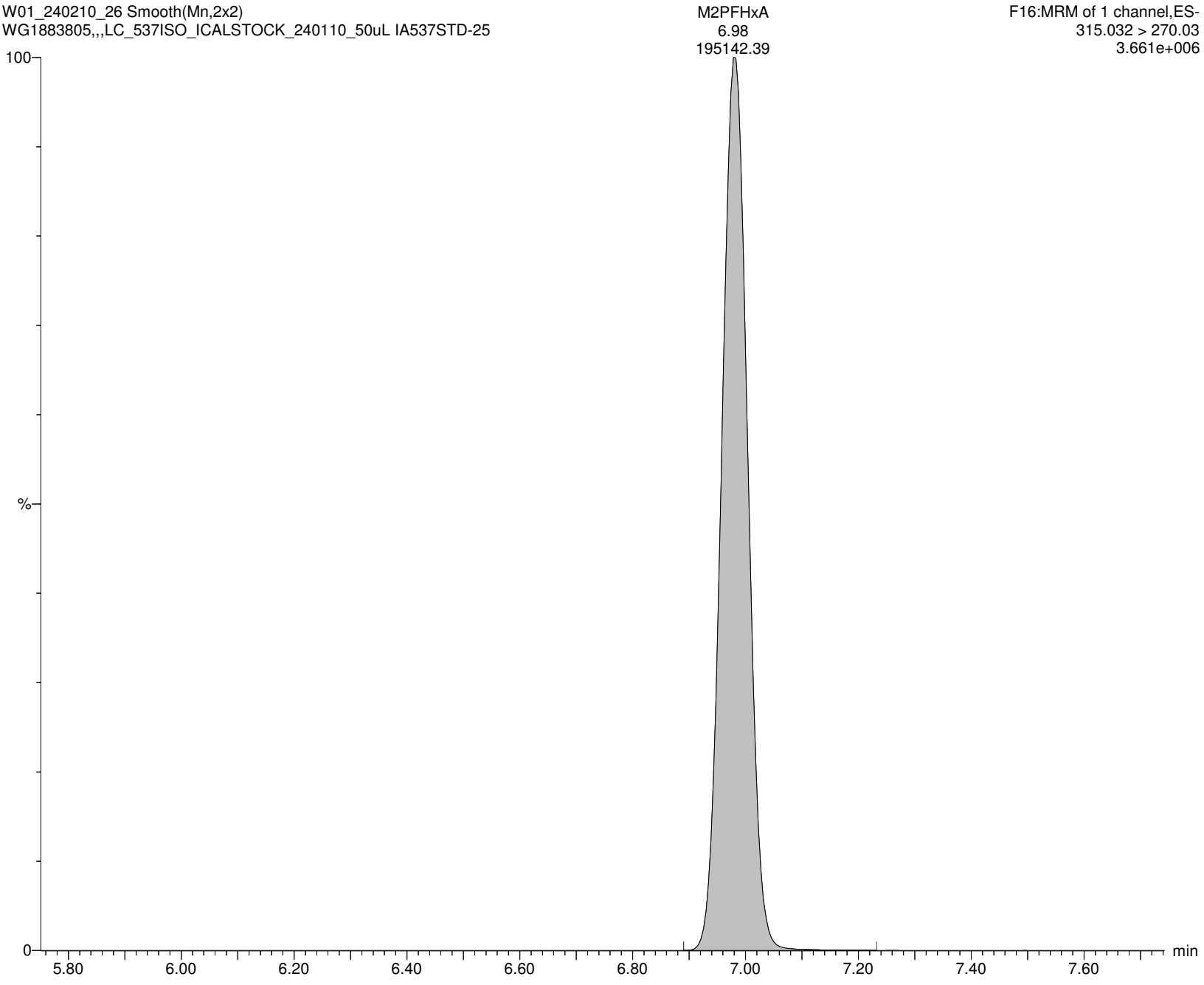

all concentration units in (ng/mL)

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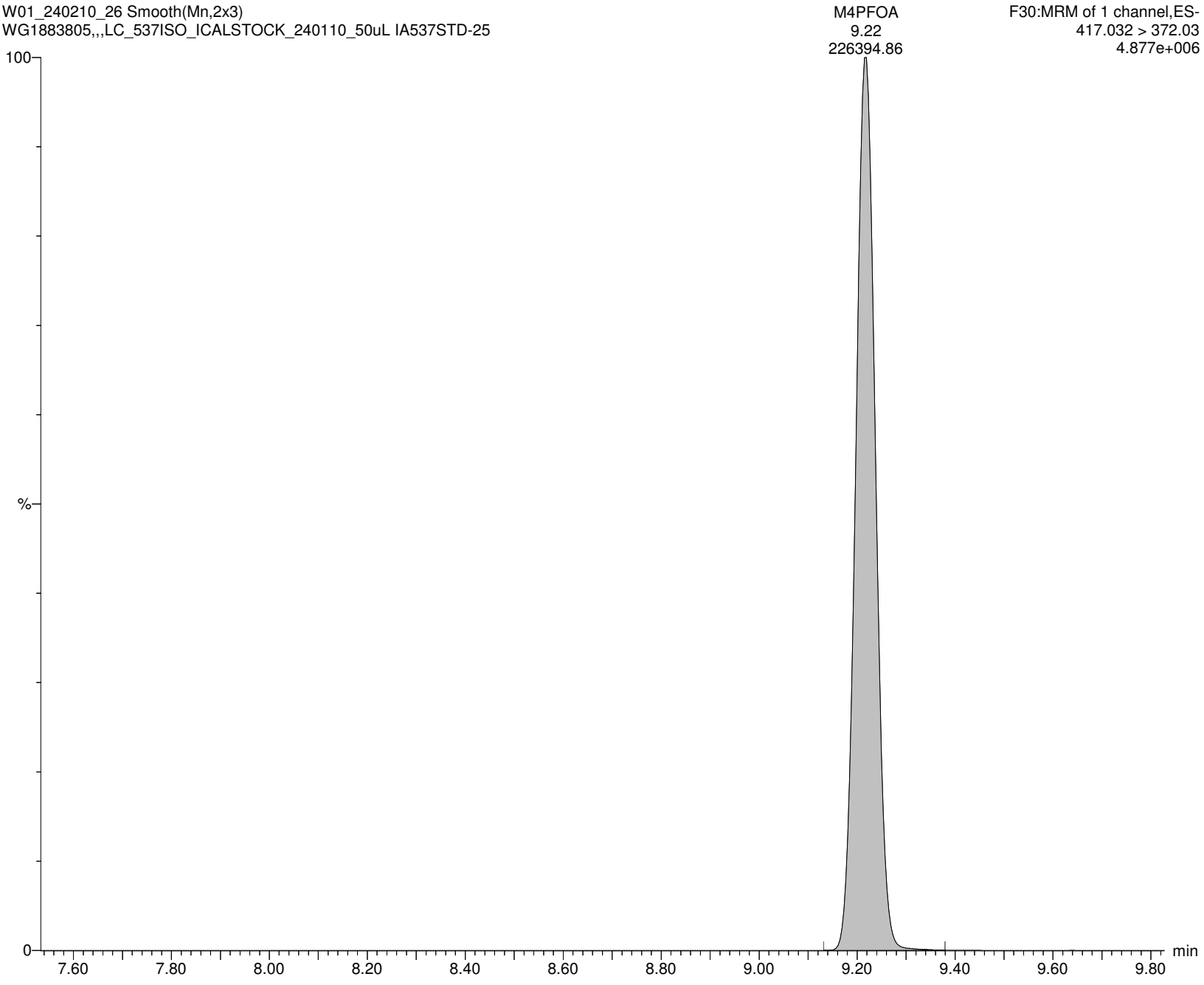

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240211_RT.mdb 12 Feb 2024 15:21:47
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	405084		52.462		na	104.9
2	M3PFBA	INT STD	2.24	216.009 > 171.999	74246		9.681		na	96.8
3	MPFBA	INT STD	2.24	217.001 > 171.999	85246		10.091		na	100.9
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	468278		52.731		na	105.5
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	87846		9.959		na	99.6
6	PFBS	375-73-5	5.75	299.092 > 80.062	157945		46.953	1.83	NO	105.9
7	M3PFBS	INT STD	5.75	302.069 > 80.062	30361		9.487		na	101.8
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	46837		46.665	2.04	NO	99.6
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	11502		12.196		na	130.0
10	PFHxA	307-24-4	6.98	313.047 > 269.037	615598		51.391	14.29	NO	102.8
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	126141		10.294		na	102.9
12	PFPeS	2706-91-4	7.30	349.1 > 80.062	157482		47.406	1.53	NO	100.8
13	PFHpA	375-85-9	8.26	363.055 > 319.045	706774		52.558	4.51	NO	105.1
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	133829		10.265		na	102.6
15	br-PFHxS	355-46-4	8.18	399.107 > 80.062	29497	M5,M7	8.650	1.81	NO	100.0
16	L-PFHxS	355-46-4	8.42	399.107 > 80.062	122427		37.148	1.47	NO	100.3
17	PFHxS	355-46-4		399.107 > 80.062	151924		45.798		na	
18	M3PFHxS	INT STD	8.42	402.084 > 80.062	29300		9.518		na	100.4
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.22	413.063 > 369.053	769142		51.520	11.26	NO	103.0
21	PFOA	335-67-1		413.063 > 369.053	769142		51.520		na	
22	M8PFOA	INT STD	9.22	421.002 > 376.	145207		10.250		na	102.5
23	M2PFOA	INT STD	9.22	415.048 > 370.045	139966		9.428		na	94.3
24	6:2FTS	27619-97-2	9.18	427.161 > 407.155	42729	M4	45.691	3.48	NO	96.1
25	M2-6:2FTS	INT STD	9.18	429.146 > 409.14	12134		11.199		na	117.8
26	PFHpS	375-92-8	9.32	449.115 > 80.062	171110		52.530	1.54	NO	110.2
27	PFNA	375-95-1	9.99	463.071 > 419.061	784341		52.824	7.10	NO	105.6
28	M9PFNA	INT STD	9.99	472.002 > 427.	147362		10.013		na	100.1
29	br-PFOS	1763-23-1	9.85	499.123 > 80.062	45408	M5,M7	9.627	3.31	NO	98.2
30	L-PFOS	1763-23-1	10.04	499.123 > 80.062	141061		36.338	1.63	NO	99.3
31	PFOS	1763-23-1		499.123 > 80.062	186469		45.964		na	
32	M4PFOS	INT STD	10.04	503.093 > 80.062	33695		9.098		na	94.8
33	M8PFOS	INT STD	10.04	507.062 > 80.062	35202		9.793		na	102.1
34	PFDA	335-76-2	10.63	513.078 > 469.069	625114		51.158	4.89	NO	102.3
35	M2PFDA	INT STD	10.63	515.063 > 470.061	123364		9.195		na	91.9
36	M6PFDA	INT STD	10.63	519.033 > 474.03	125546		10.208		na	102.1
37	8:2FTS	39108-34-4	10.62	527.177 > 507.171	42392		47.586	2.80	NO	99.1
38	M2-8:2FTS	INT STD	10.62	529.162 > 509.155	12183		10.634		na	110.8
39	PFNS	68259-12-1	10.66	549.131 > 80.062	177846		47.280	1.91	NO	98.3

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User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.00	573.22 > 419.061	19924		10.547		na	105.5
41	br-NMeFOSAA	2355-31-9	10.84	570.202 > 419.061	7378	M5,M7	12.350	1.12	NO	102.9
42	L-NMeFOSAA	2355-31-9	11.01	570.202 > 419.061	55491		40.076	2.25	NO	105.5
43	NMeFOSAA	2355-31-9		570.202 > 419.061	62869		52.426		na	
44	PFUnA	2058-94-8	11.19	563.086 > 519.076	664186		50.228	6.40	NO	100.5
45	M7-PFUDA	INT STD	11.19	570.033 > 525.031	130220		9.718		na	97.2
46	PFDS	335-77-3	11.20	598.926 > 80.062	162255		47.956	1.80	NO	99.4
47	FOSA	754-91-6	10.97	498.146 > 78.07	512166		50.507	42.31	NO	101.0
48	M8FOSA	INT STD	10.97	506.077 > 78.07	93624		10.352		na	103.5
49	d5-NEtFOSAA	INT STD	11.30	589.259 > 419.061	18402		10.336		na	103.4
50	br-NEtFOSAA	2991-50-6	11.15	584.229 > 419.061	7879	M5,M7	11.688	0.81	NO	103.9
51	L-NEtFOSAA	2991-50-6	11.31	584.229 > 419.061	55513		38.824	1.40	NO	100.2
52	NEtFOSAA	2991-50-6		584.229 > 419.061	63392		50.512		na	
53	PFDoA	307-55-1	11.68	613.094 > 569.084	838182		49.672	7.25	NO	99.3
54	MPFDOA	INT STD	11.68	615.079 > 570.077	161042		10.708		na	107.1
55	PFTrDA	72629-94-8	12.10	663.102 > 619.092	540370		48.250	8.99	NO	96.5
56	PFTA	376-06-7	12.46	713.11 > 669.1	769350		48.923	15.03	NO	97.8
57	M2PFTEDA	INT STD	12.46	715.094 > 670.092	144805		10.676		na	106.8
58	M3HFPO-DA	INT STD	7.41	287.02 > 169.022	149839		188.451		na	94.2
59	HFPO-DA	13252-13-6	7.41	285.035 > 169.022	246042		460.241	17.50	NO	92.0
60	ADONA	958445-44-8	8.44	377.06 > 251.028	806835		49.697	87.49	NO	105.2
61	PFHxDA		12.84	813.122 > 769.116	1263962		53.760	52.03	NO	107.5
62	PFODA		13.07	913.411 > 869.131	382661		49.793	104.97	NO	99.6
63	M2PFHxDA		12.84	815.102 > 770.108	215025		10.235		na	102.3
64	PFDoS		12.09	699.154 > 80.062	160580		48.441	1.55	NO	100.1
65	M2D4-10:2FTS		11.69	633.201 > 612.189	9542		19.348		na	98.7
66	10:2FTS		11.69	627.192 > 607.186	38441	M4,M7	51.570	3.19	NO	106.8
67	9CL-PF3ONS		10.40	531.096 > 351.07	414182		45.884	2.34	NO	98.4
68	11CL-PFOUdS		11.47	631.096 > 451.076	414831		47.836	2.91	NO	101.5
69	NMeFOSA		11.59	512.163 > 169.022	781535		281.249	1.56	NO	112.5
70	d3-NMeFOSA		11.58	515.183 > 169.022	268329		105.141		na	105.1
71	NEtFOSA		11.90	526.192 > 169.022	751784		273.191	8.80	NO	109.3
72	d5-NEtFOSA		11.89	531.222 > 169.022	264625		102.820		na	102.8
73	NMeFOSE		11.60	616 > 59	445118		133.600		na	106.9
74	d7-NMeFOSE		11.58	623 > 59	284224		101.470		na	101.5
75	NEtFOSE		11.88	630 > 59	376185		122.058		na	97.6
76	d9-NEtFOSE		11.86	639 > 59	330515		108.378		na	108.4
77	PFPrS		3.61	249.084 > 80.062	172345		46.014	3.01	NO	100.0
78	PFMPA		3.60	229.032 > 85.005	309023		49.931		na	99.9
79	PFMBA		5.83	279.042 > 85.006	475429		54.815		na	109.6
80	PFEESA		6.49	315.093 > 135.013	815790		44.469	15.82	NO	99.9
81	NFDHA		6.76	295.032 > 201.027	9565		53.161	66.46	NO	106.3
82	M3PFPeA		5.12	266.017 > 222.007	136351		10.741		na	107.4

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.98	315.032 > 270.03	188673		11.043		na	110.4
84	M4PFOA		9.22	417.032 > 372.03	213726		10.865		na	108.6

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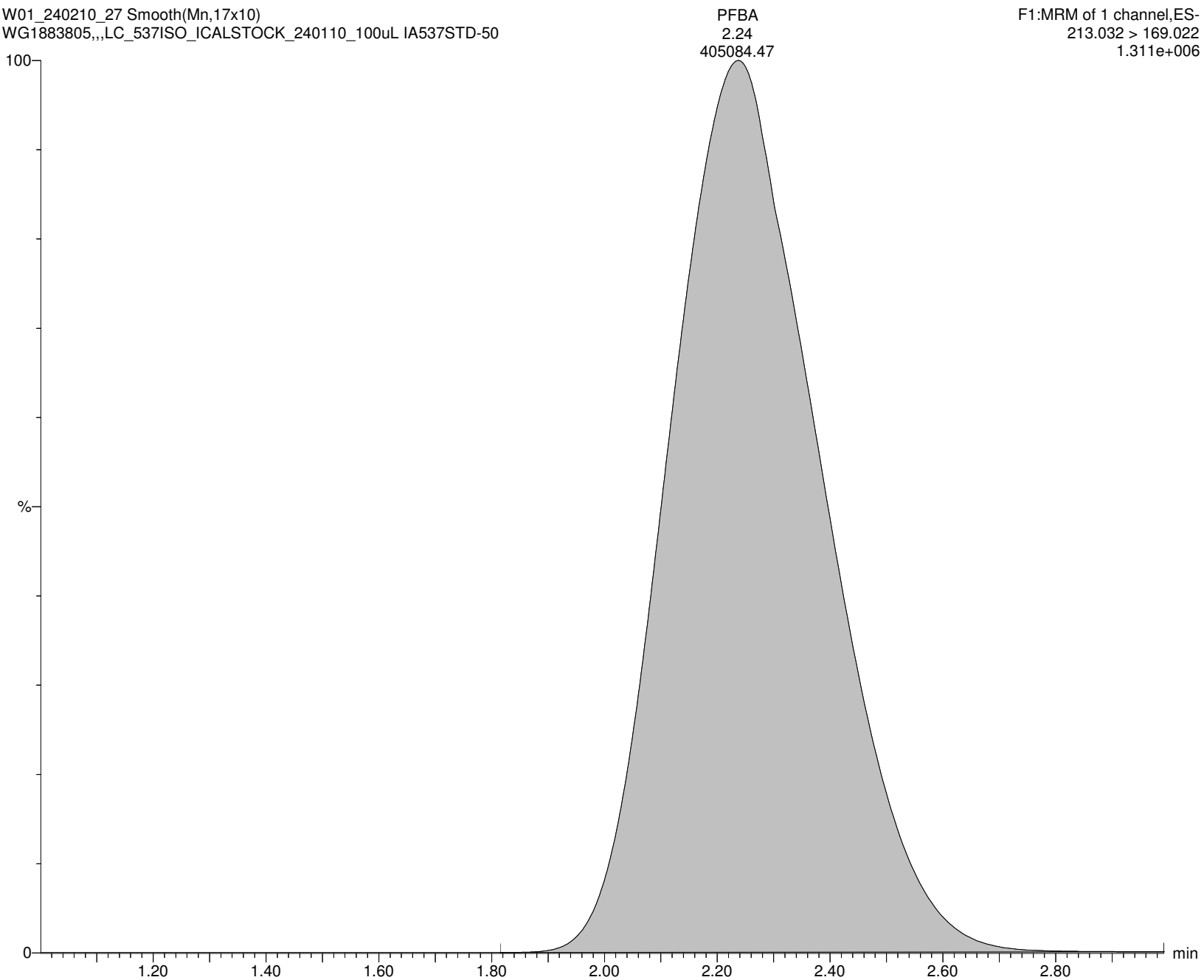

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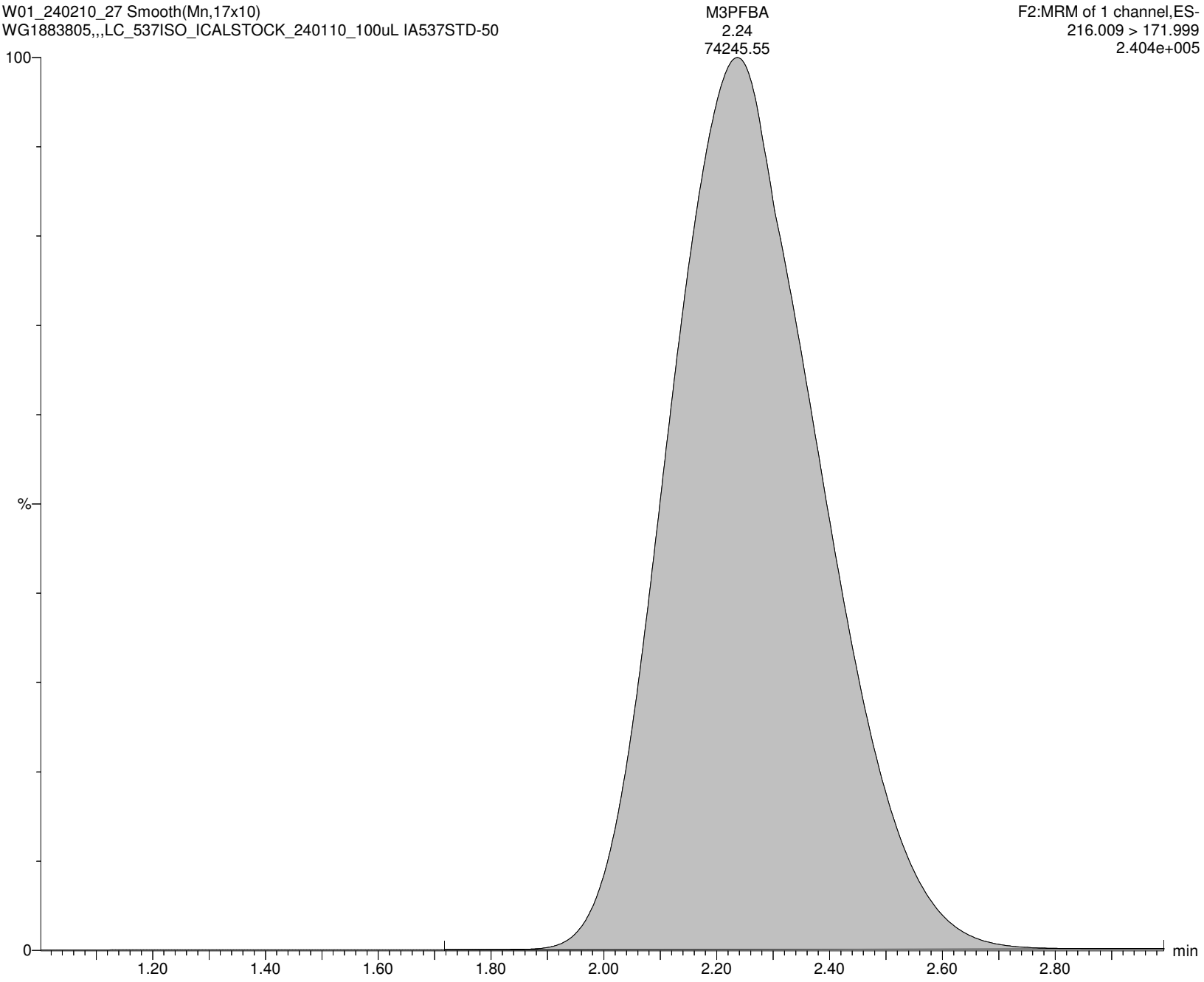

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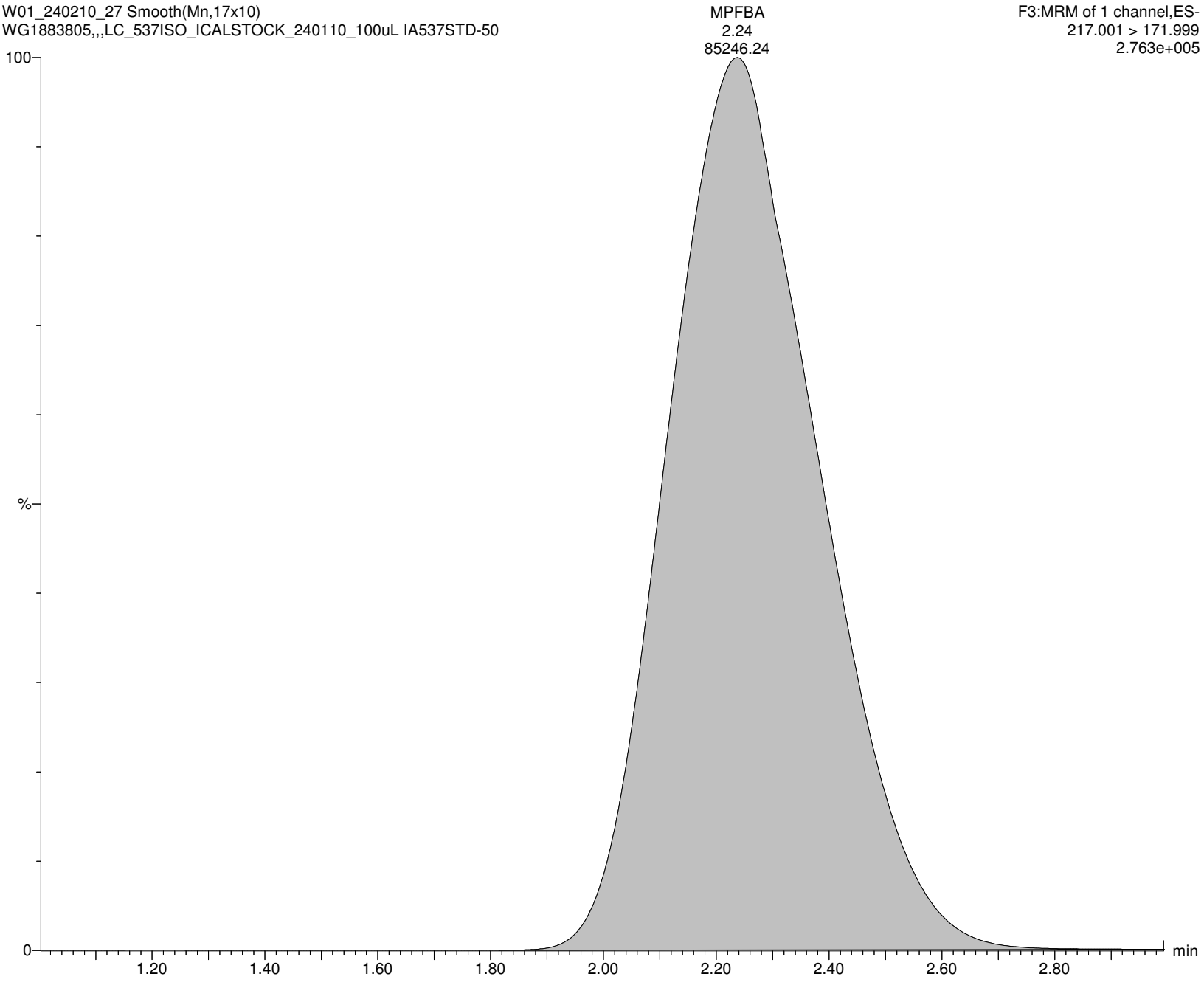

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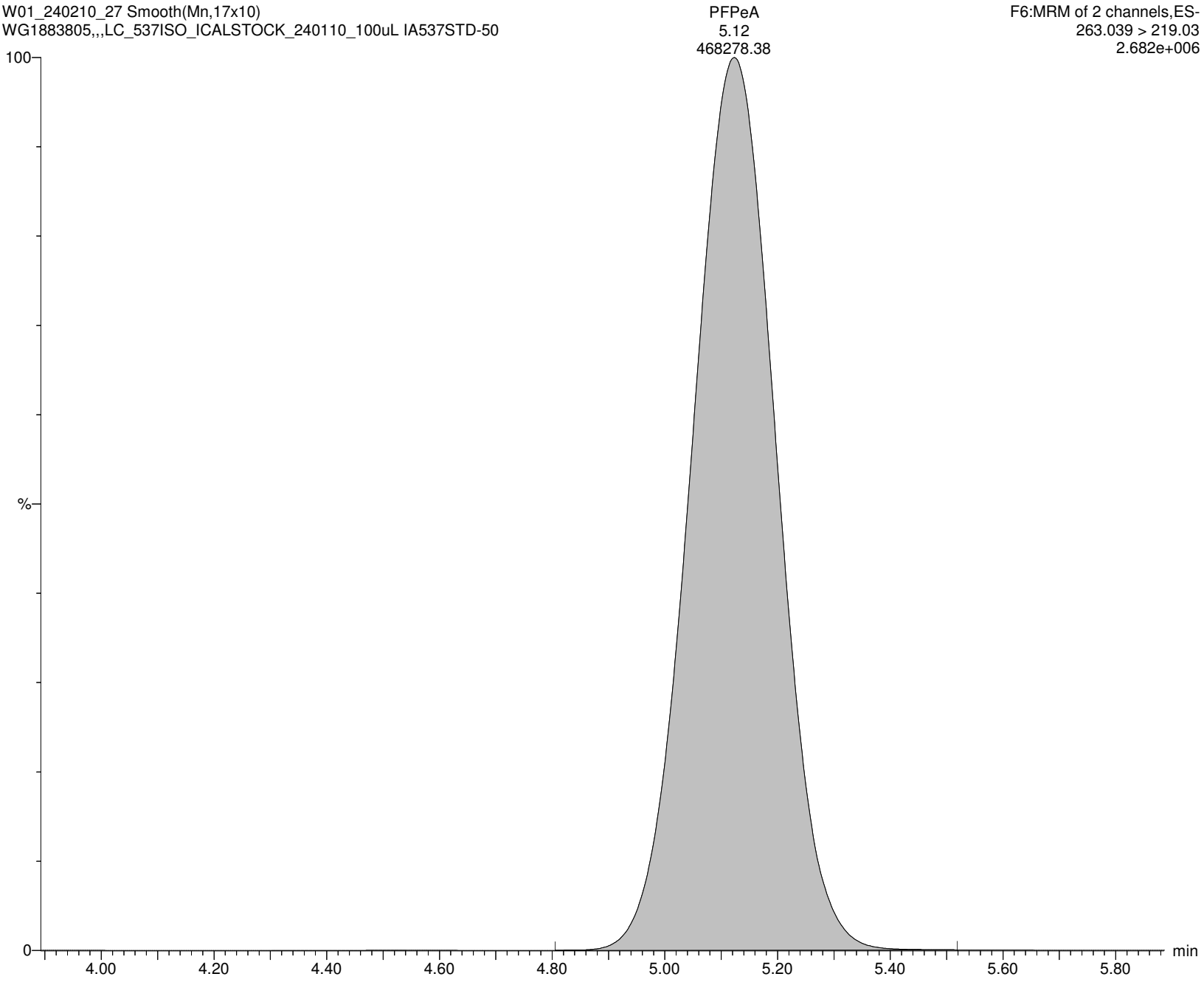

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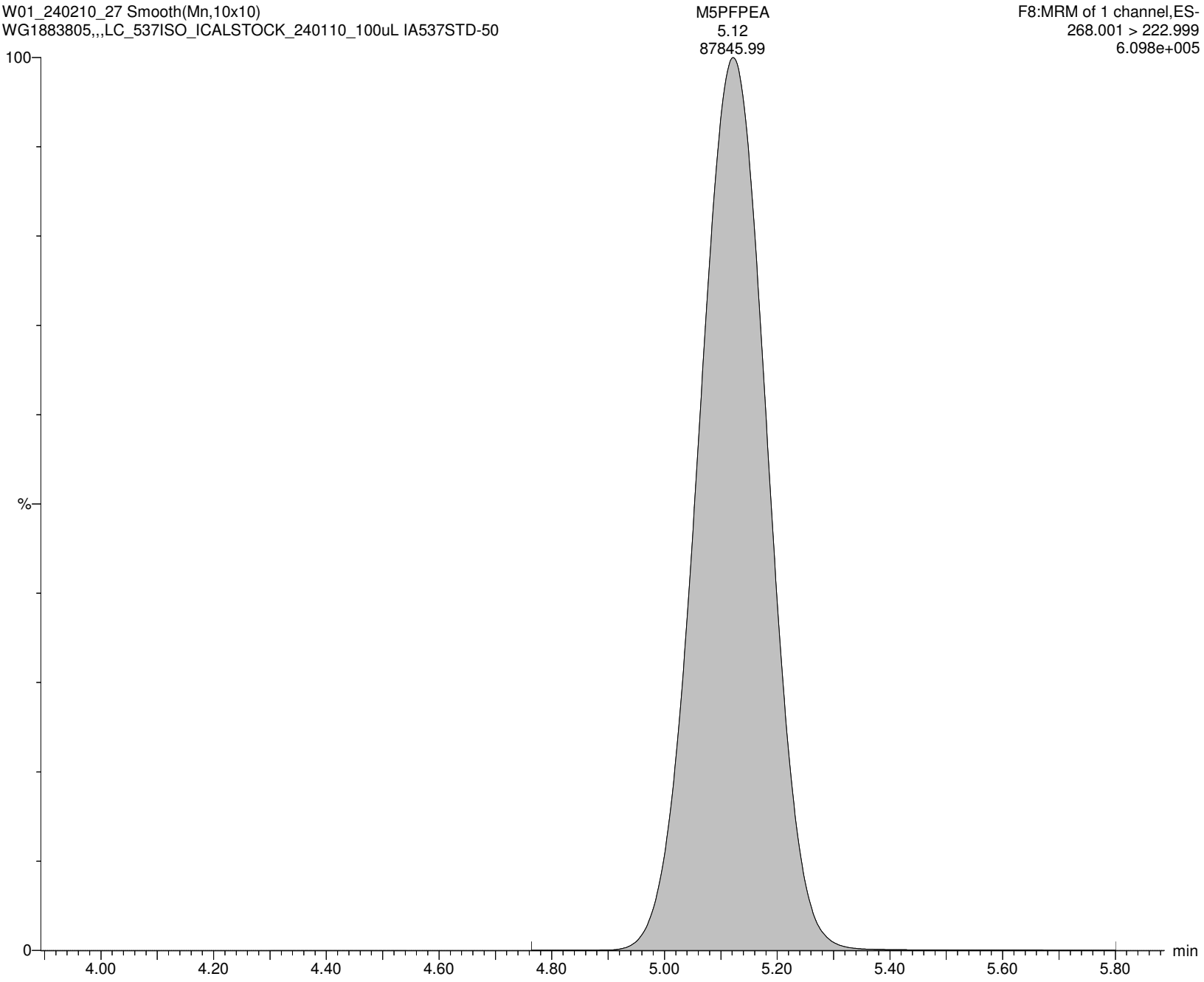

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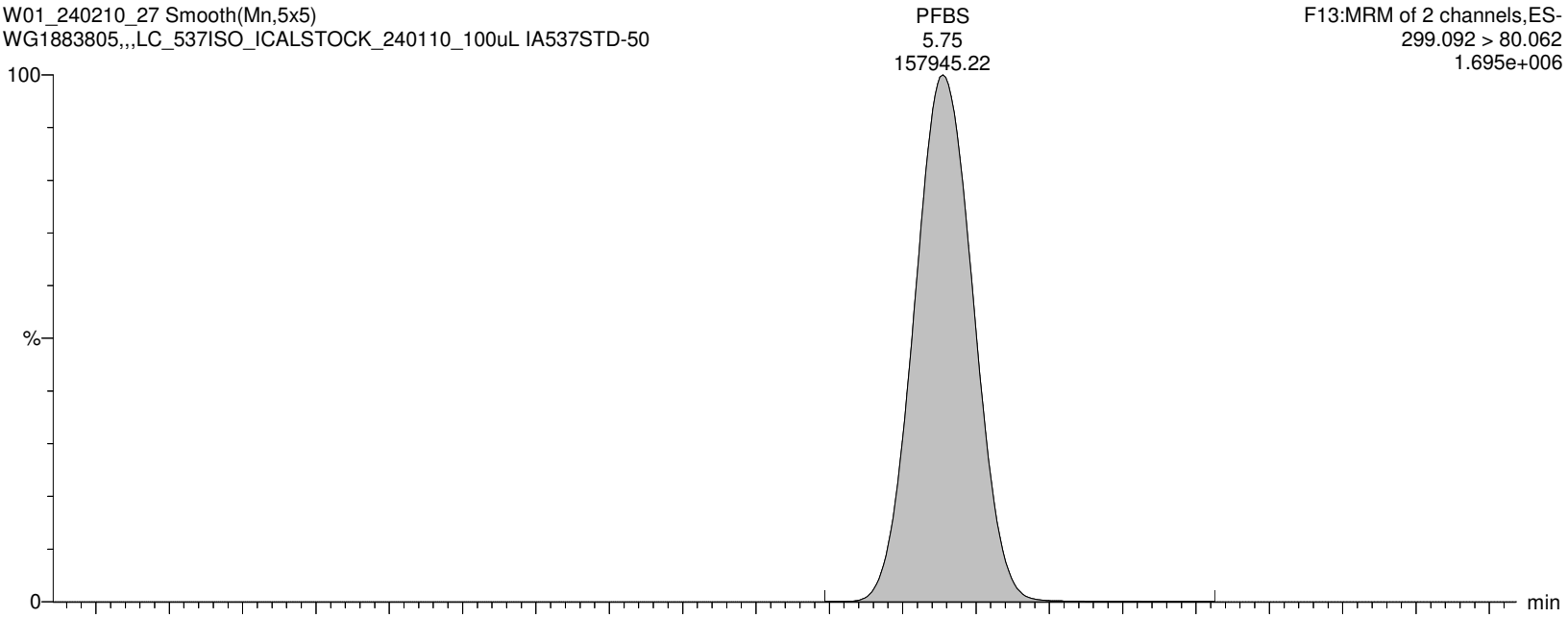

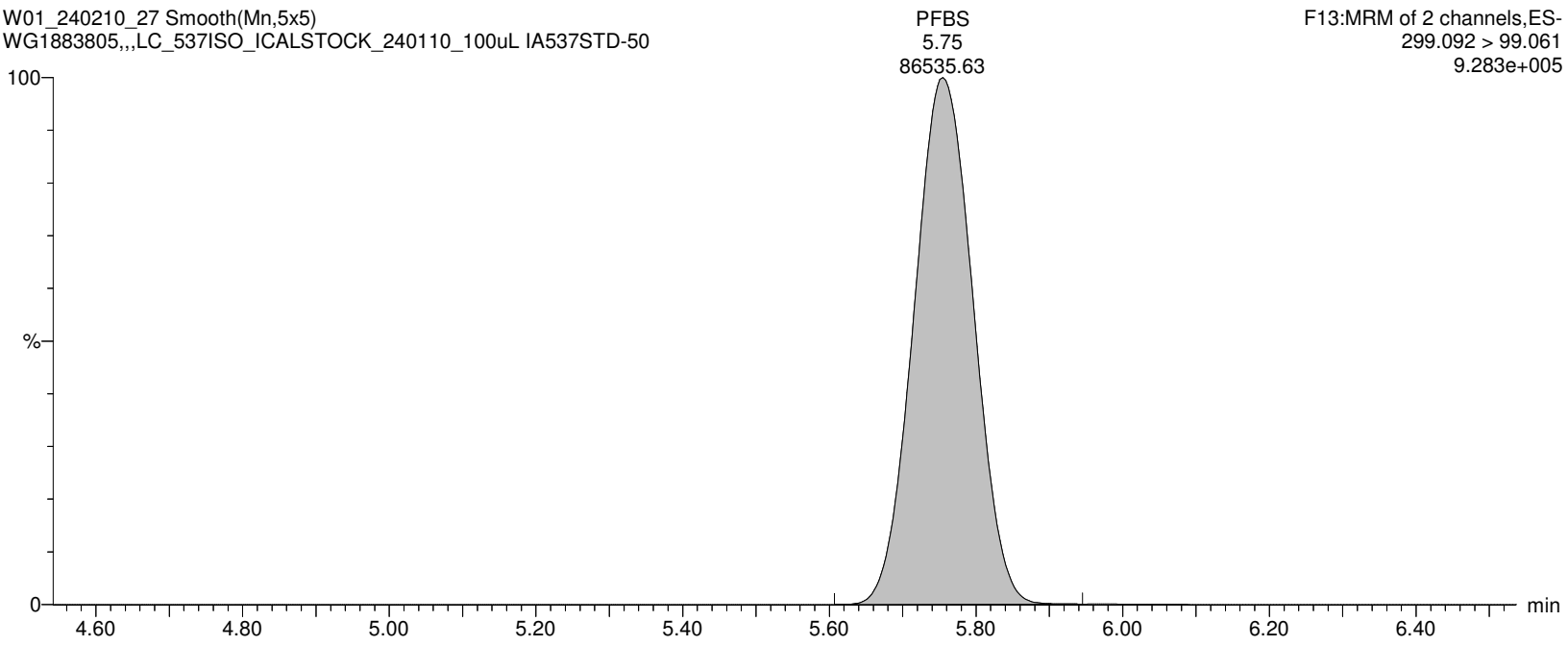

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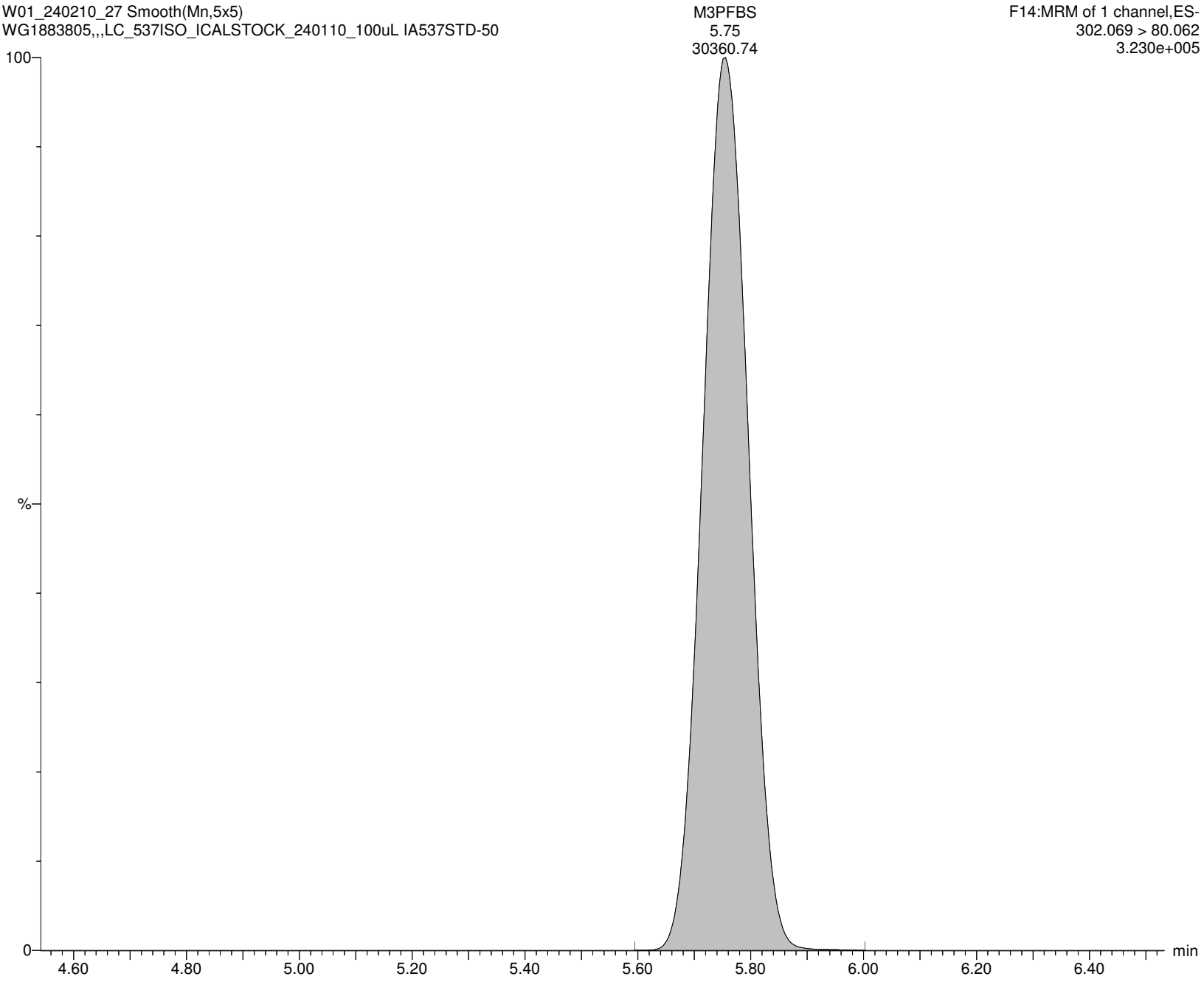
M3PFBS



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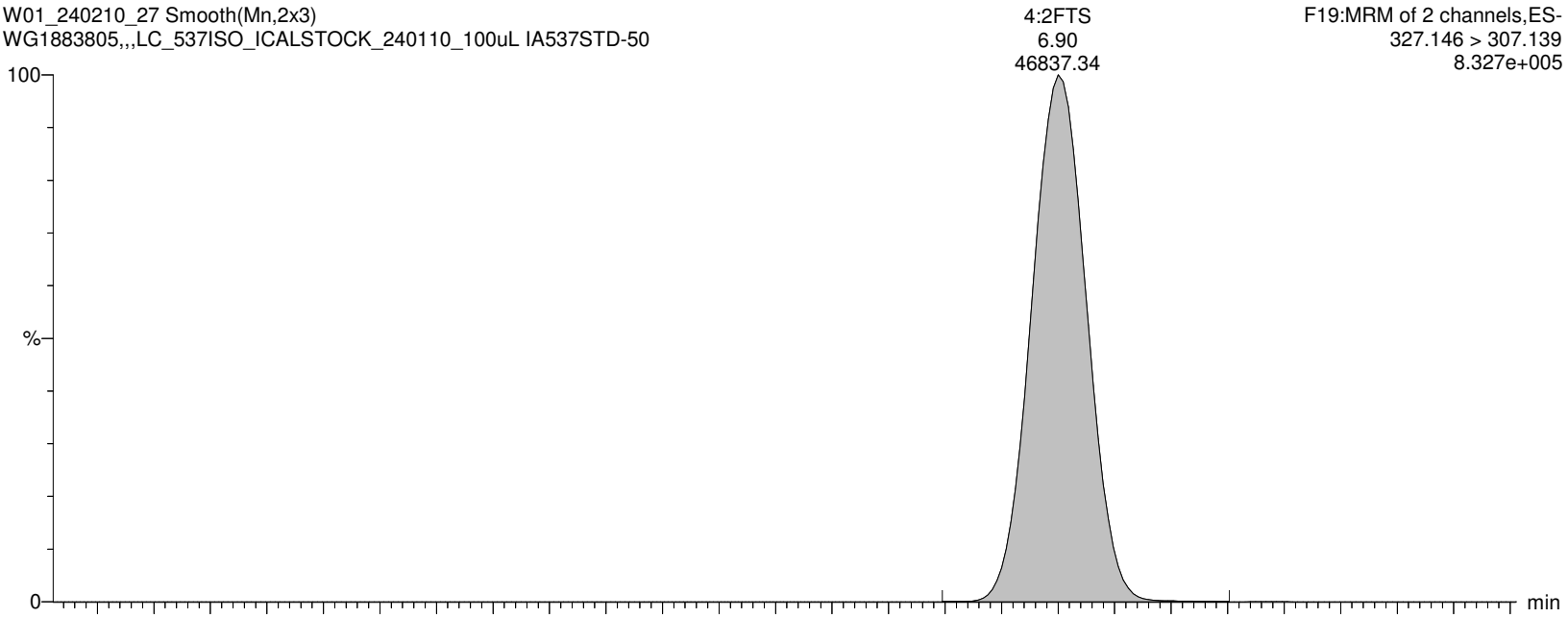

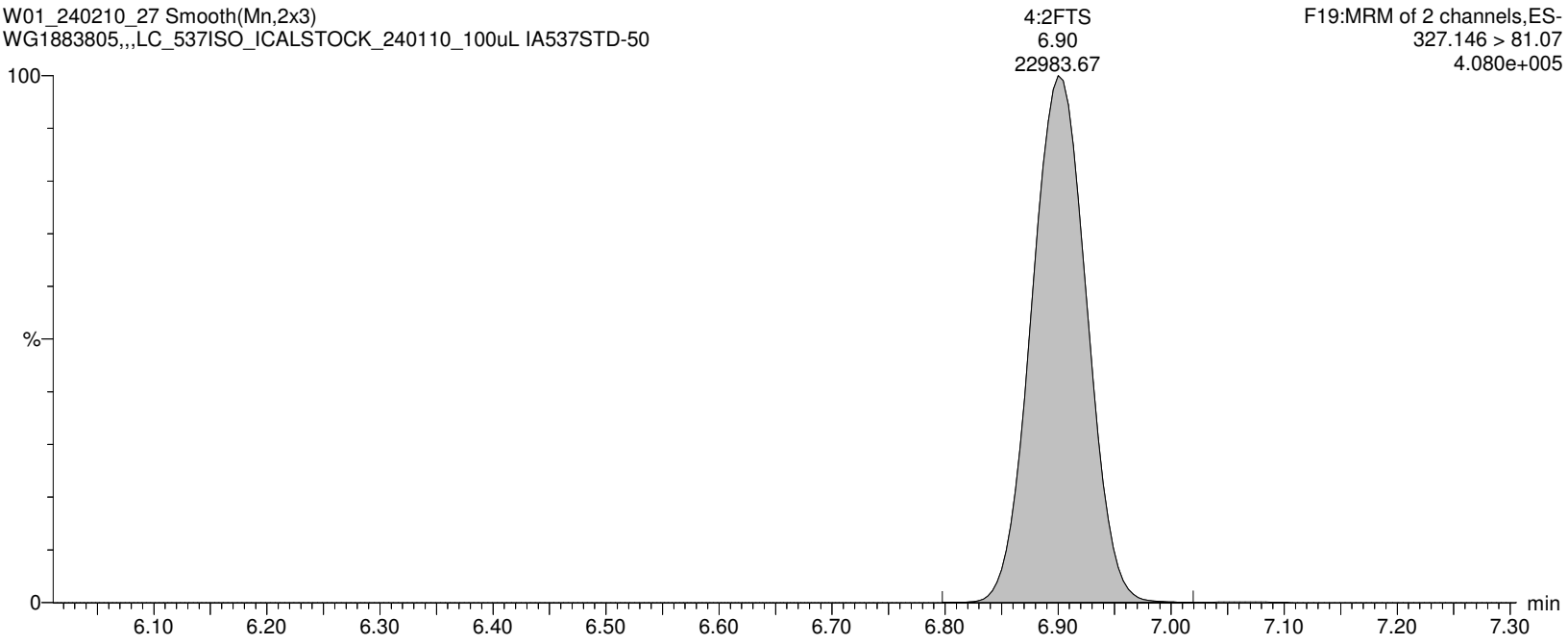

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Name: W01_240210_27
ID: IA537STD-50
Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
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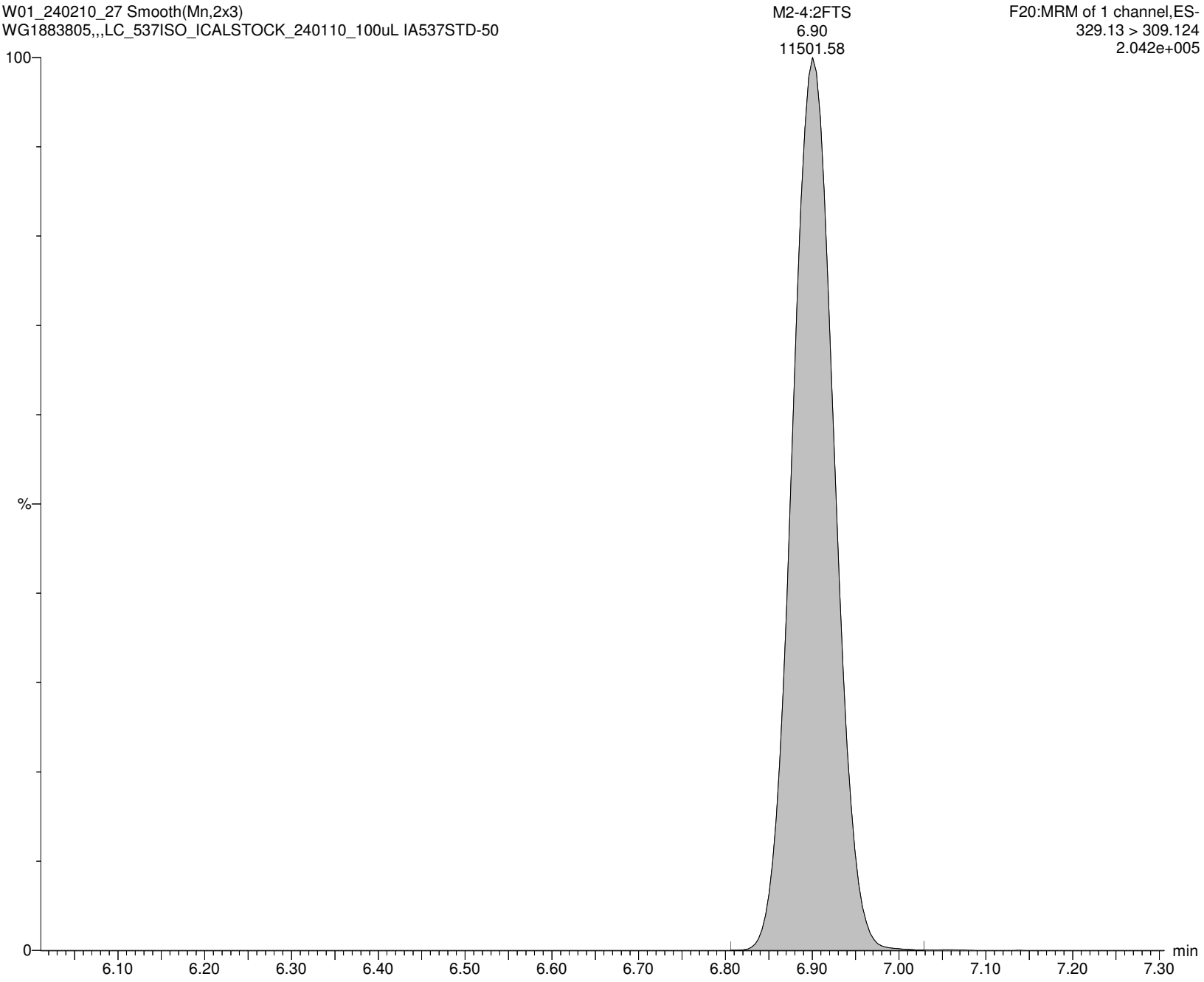

all concentration units in (ng/mL)

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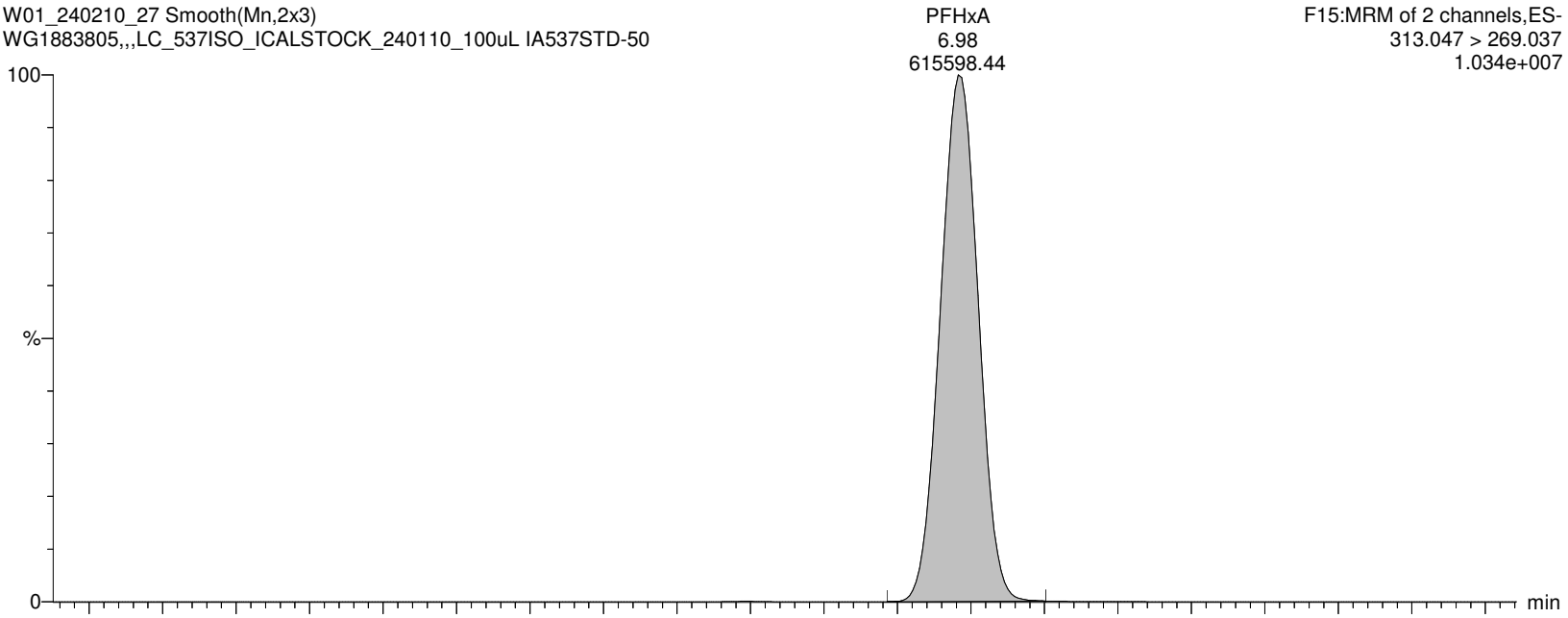

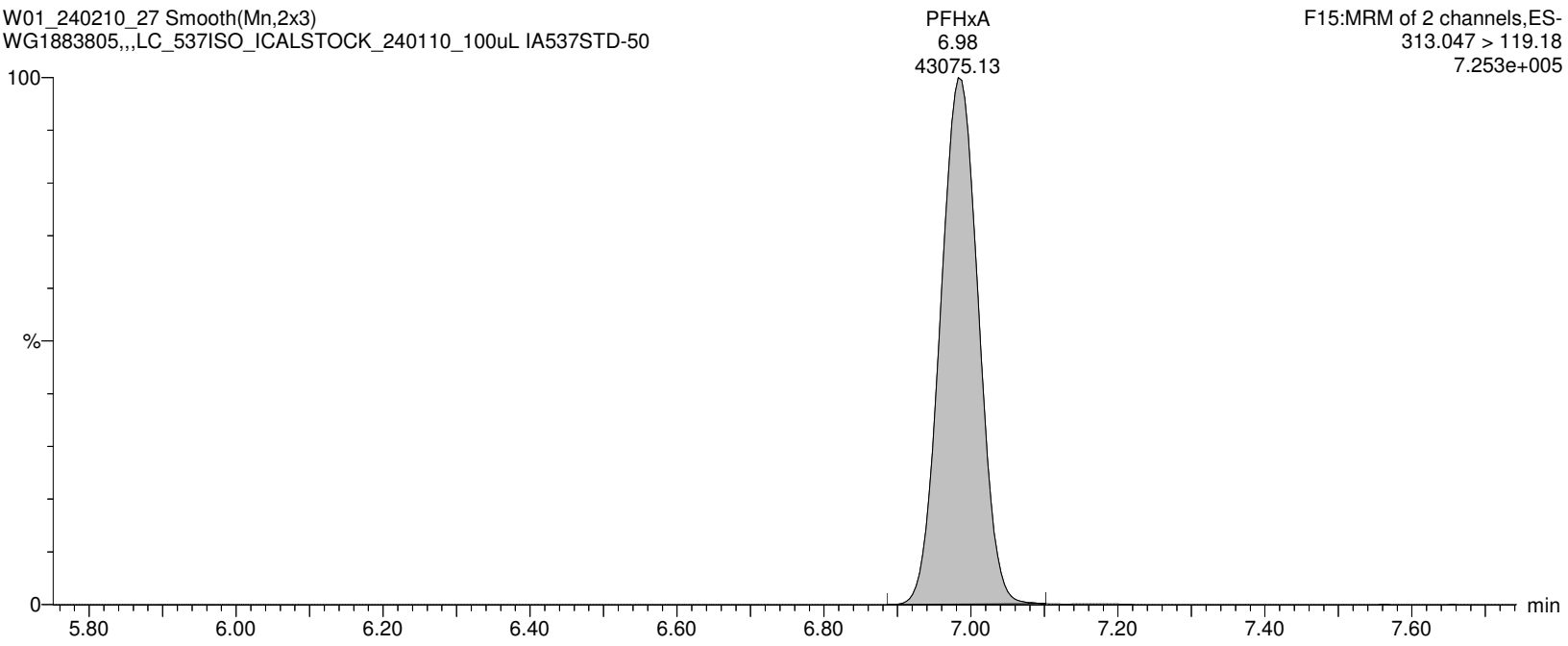

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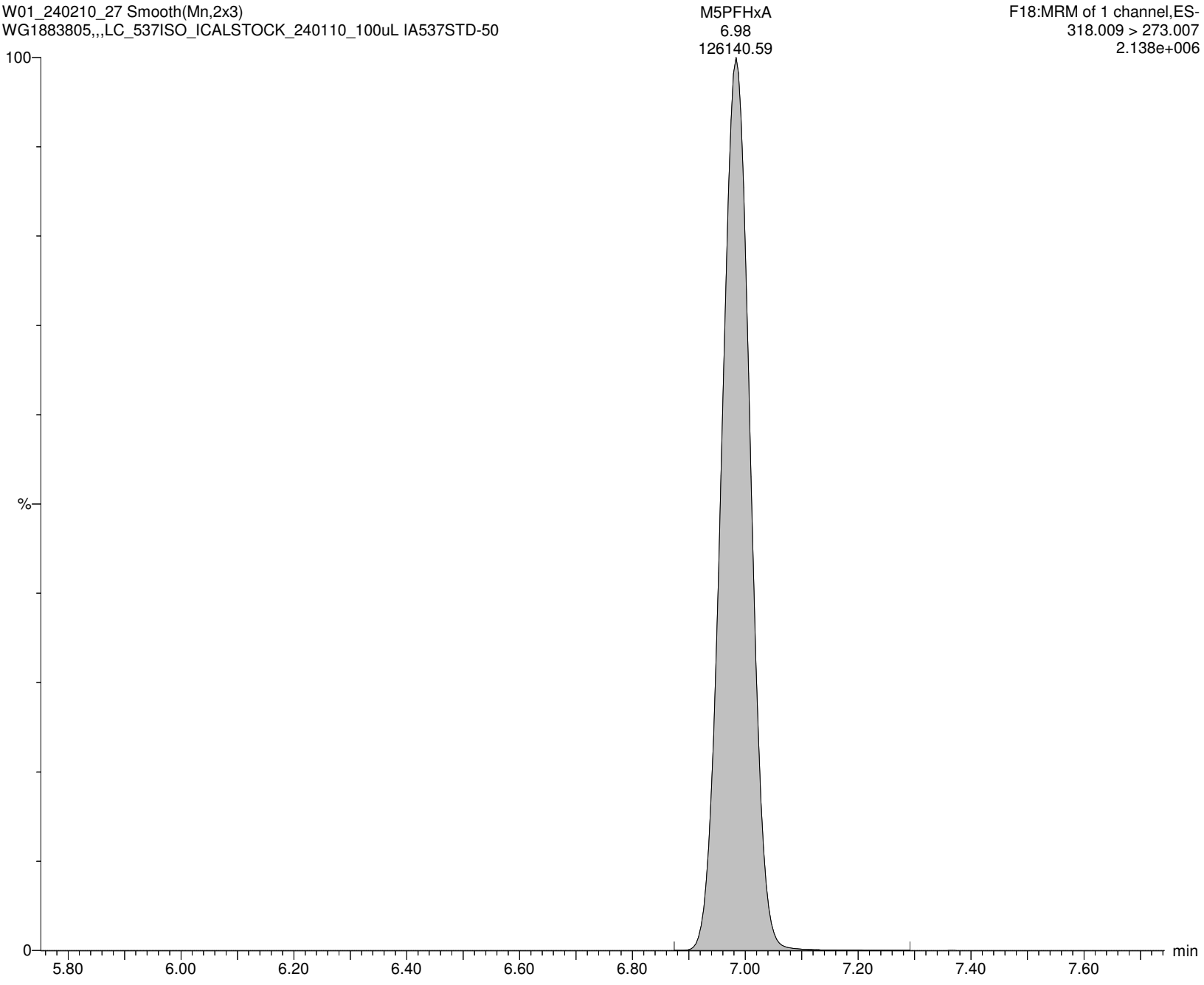

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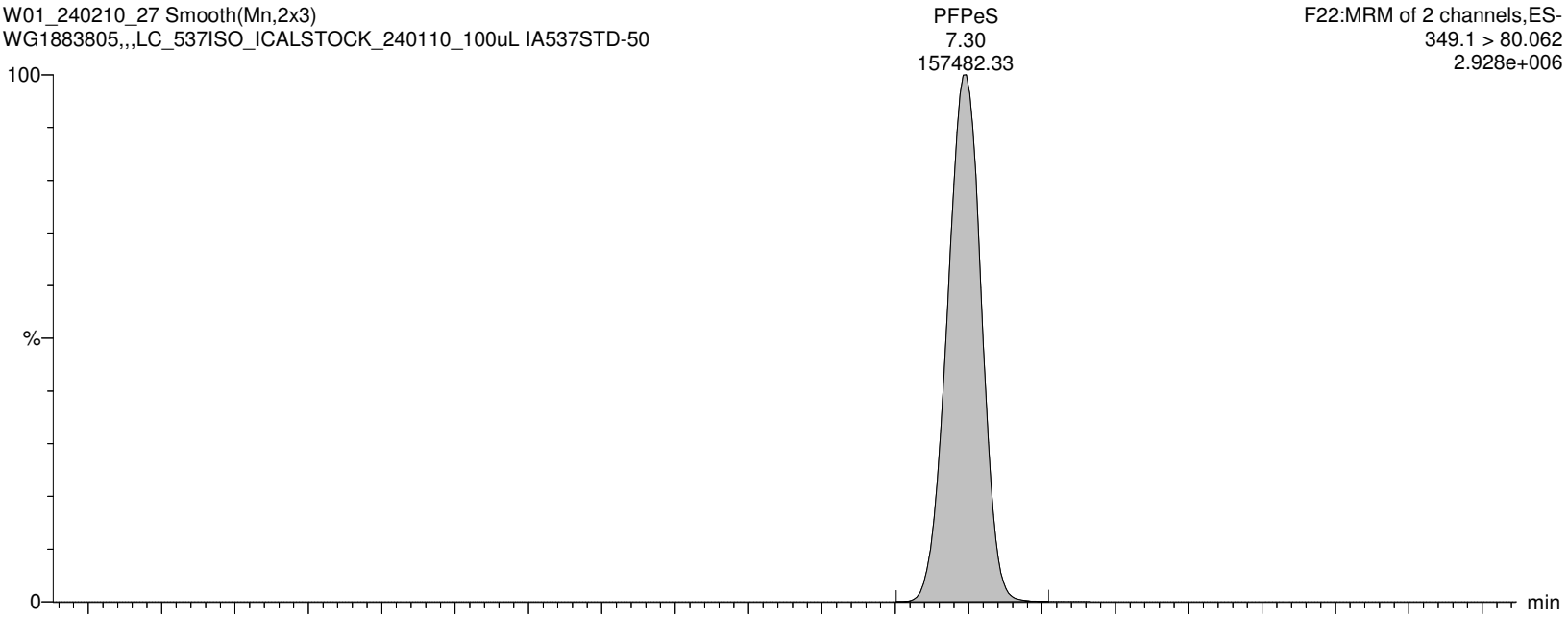

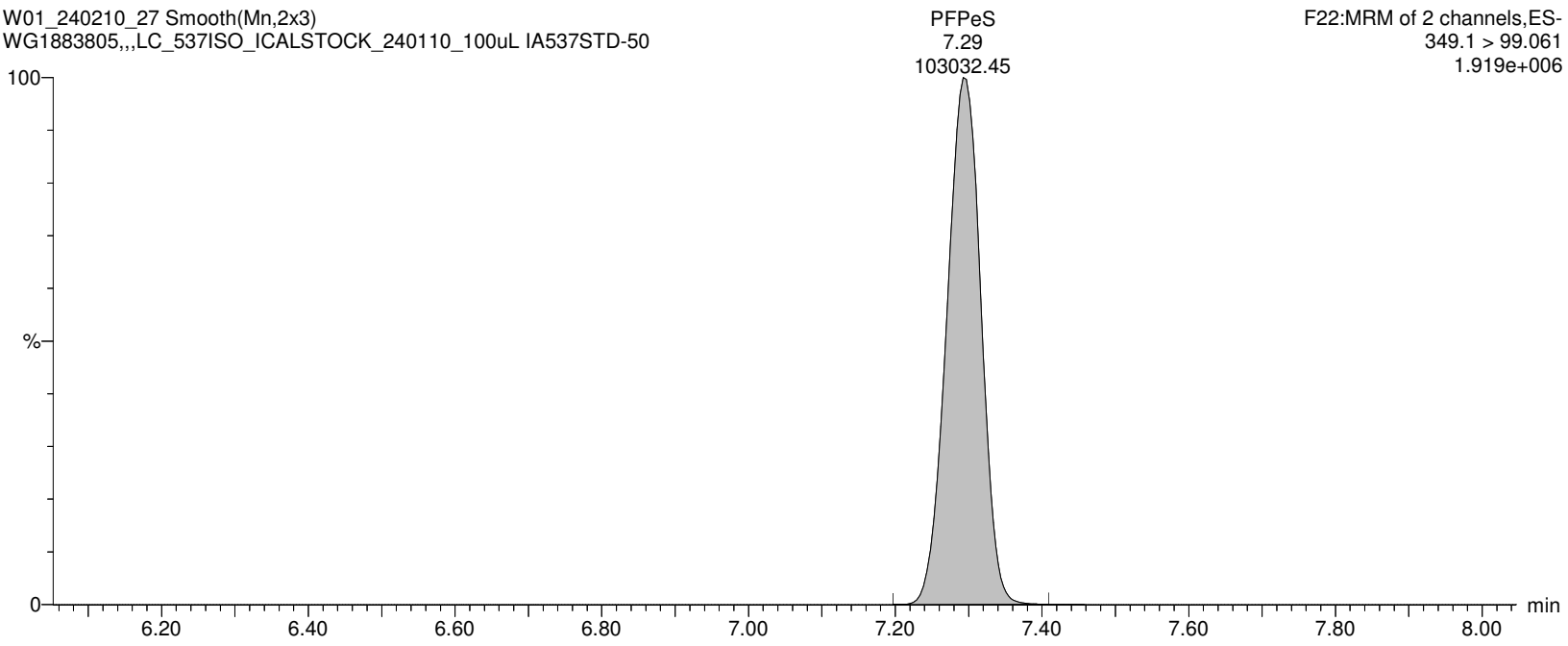

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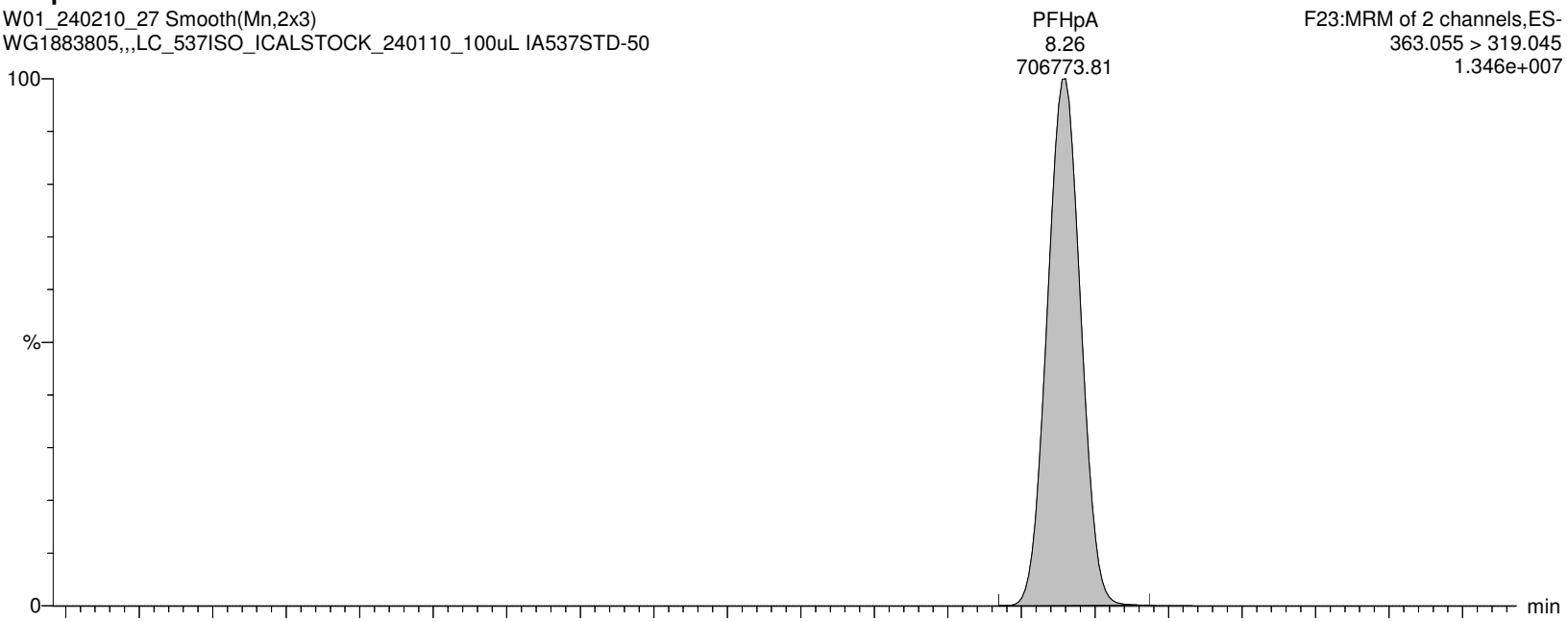

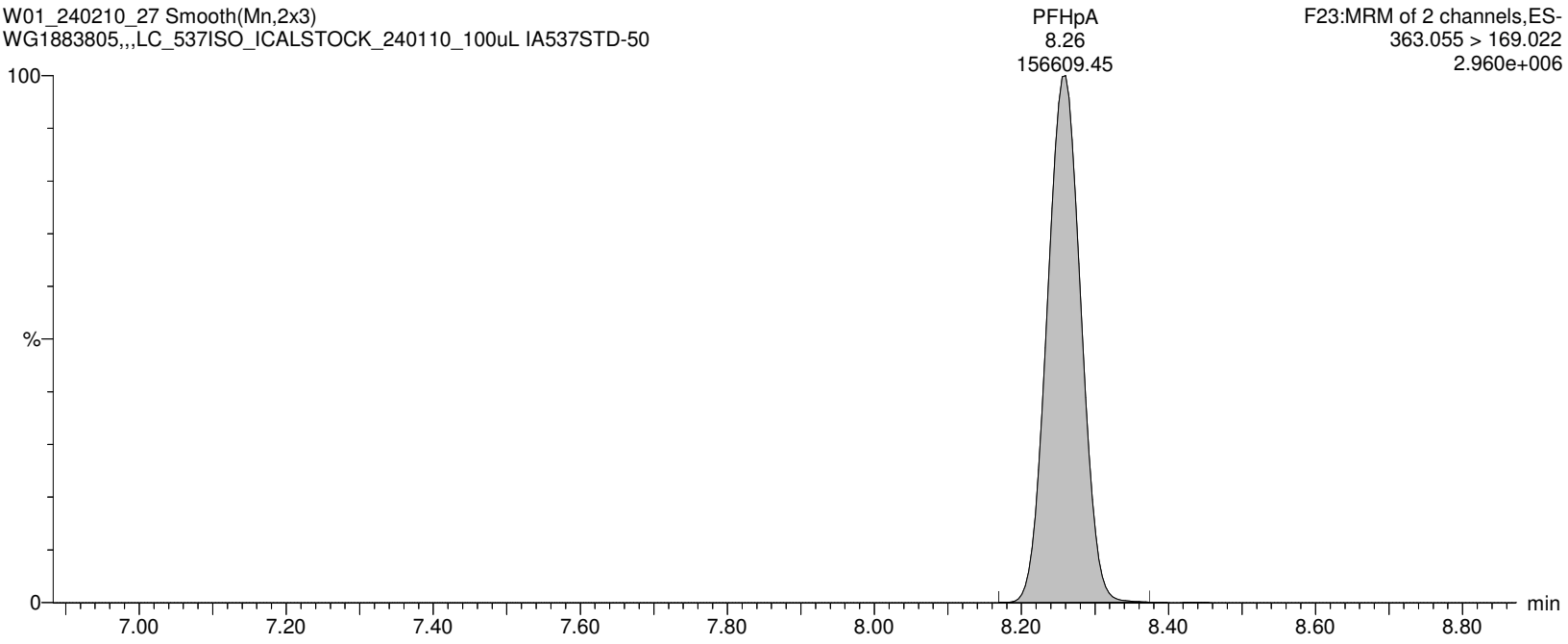

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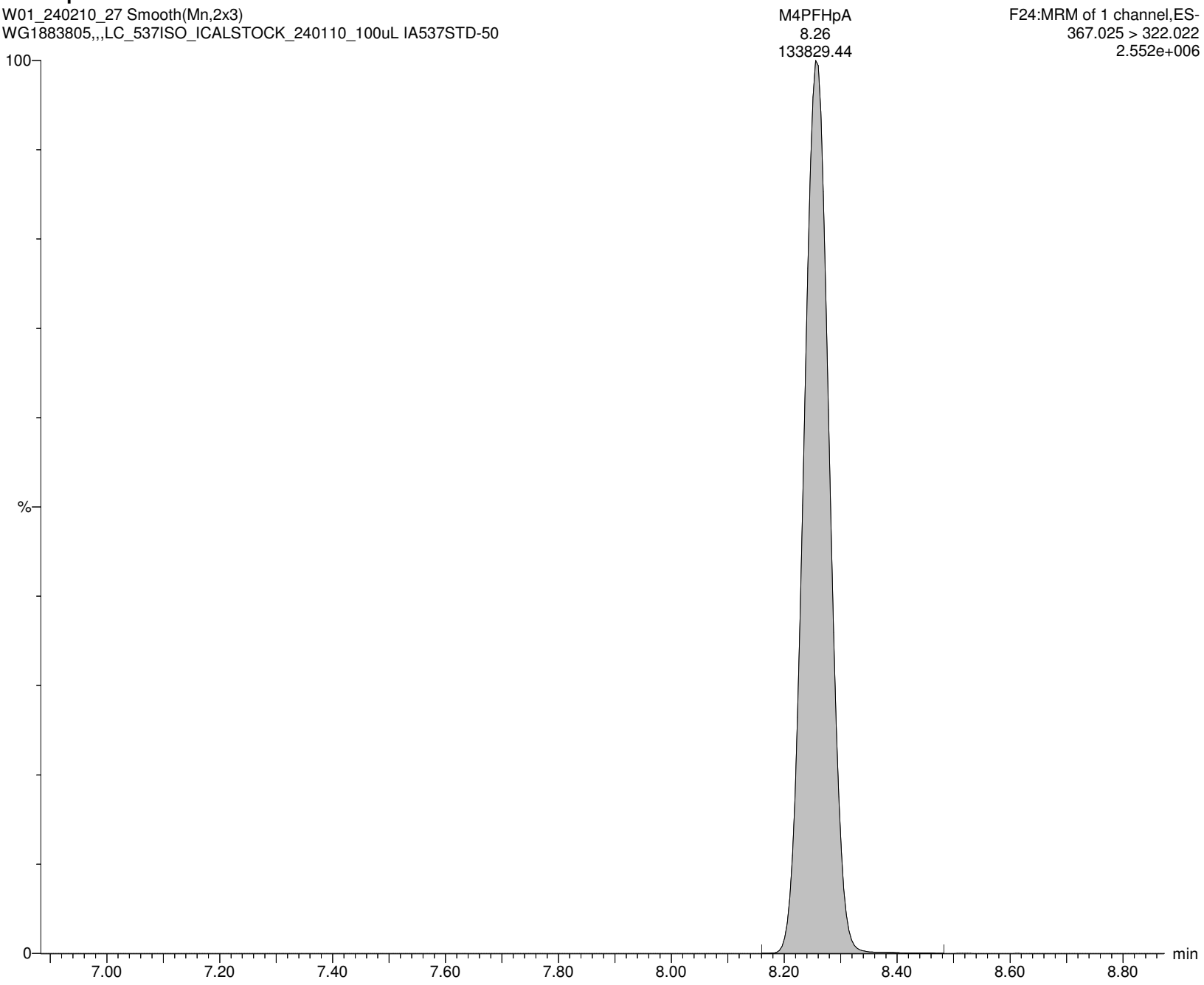

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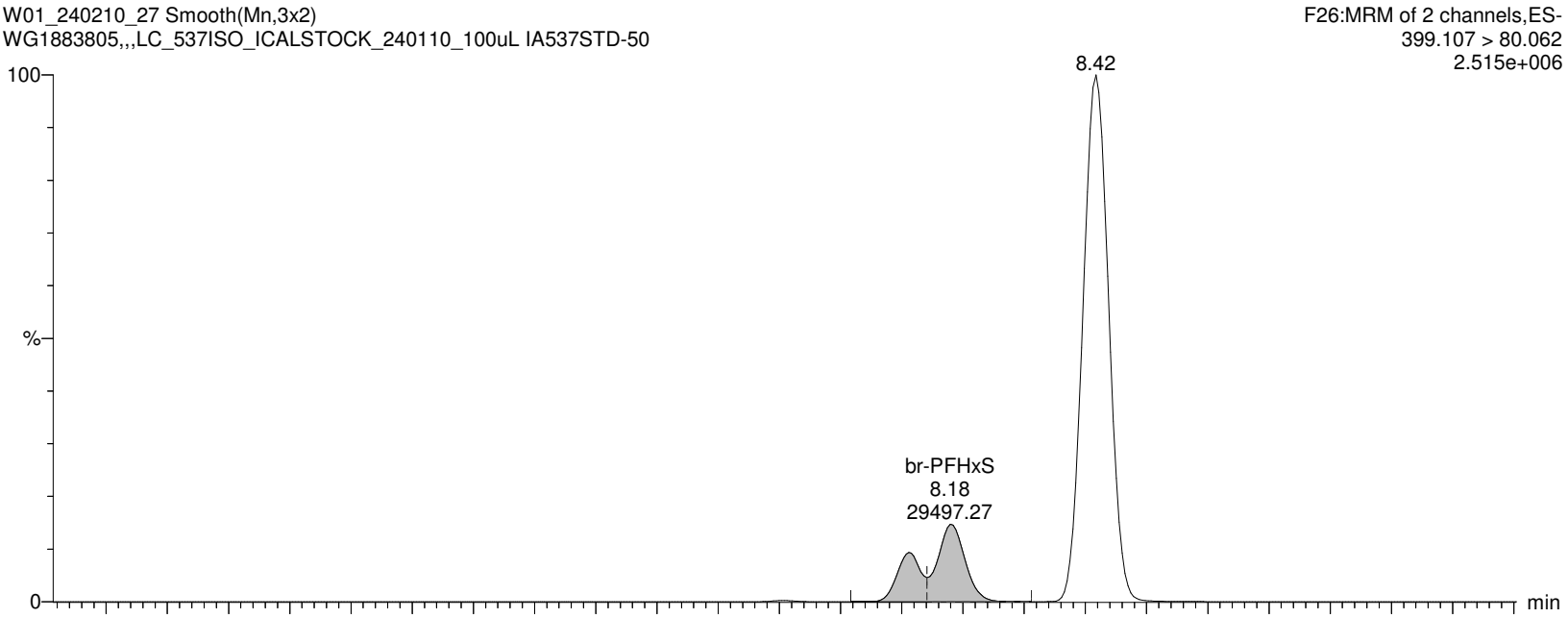

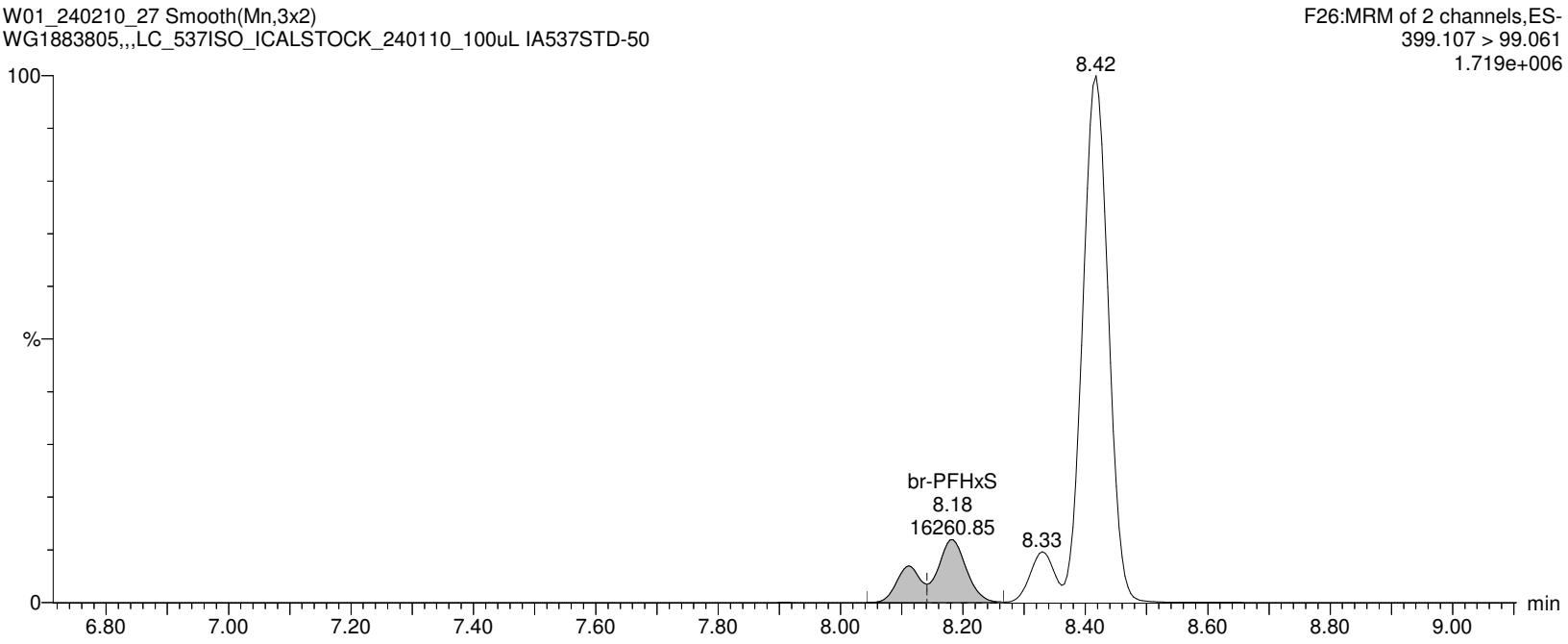

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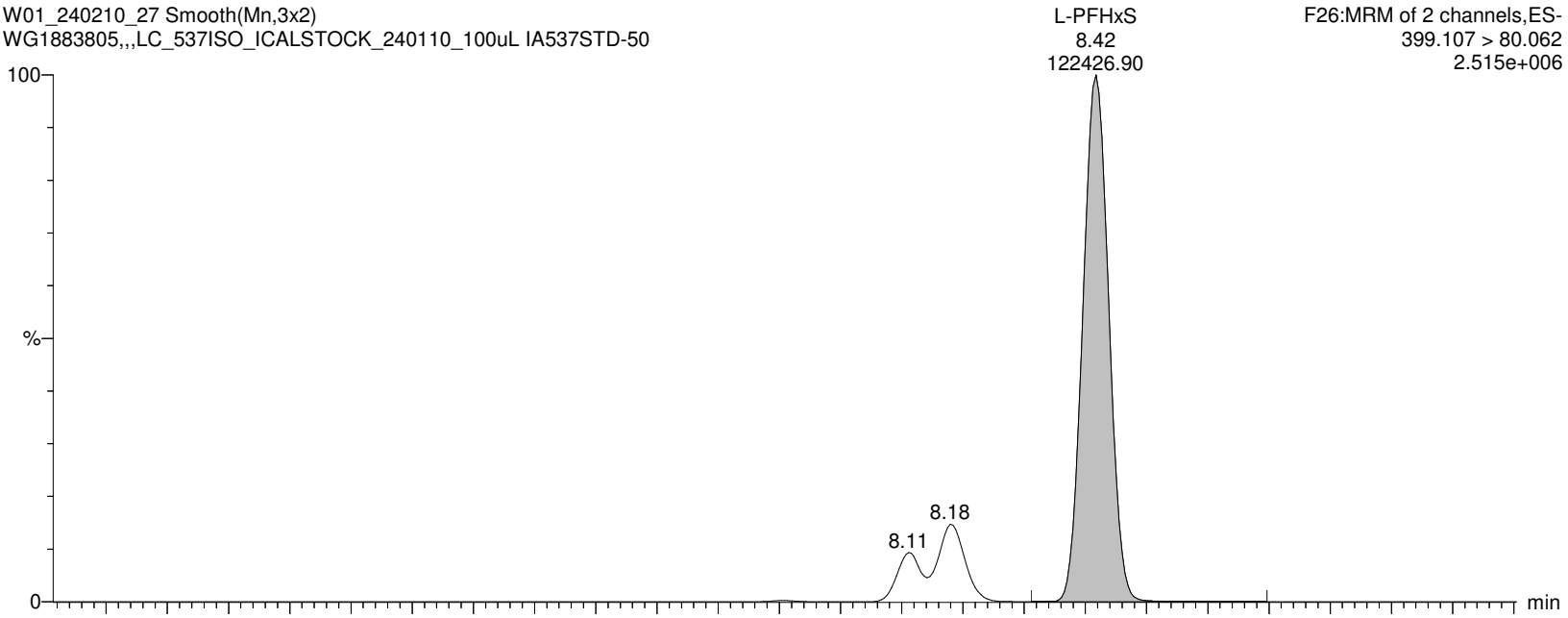

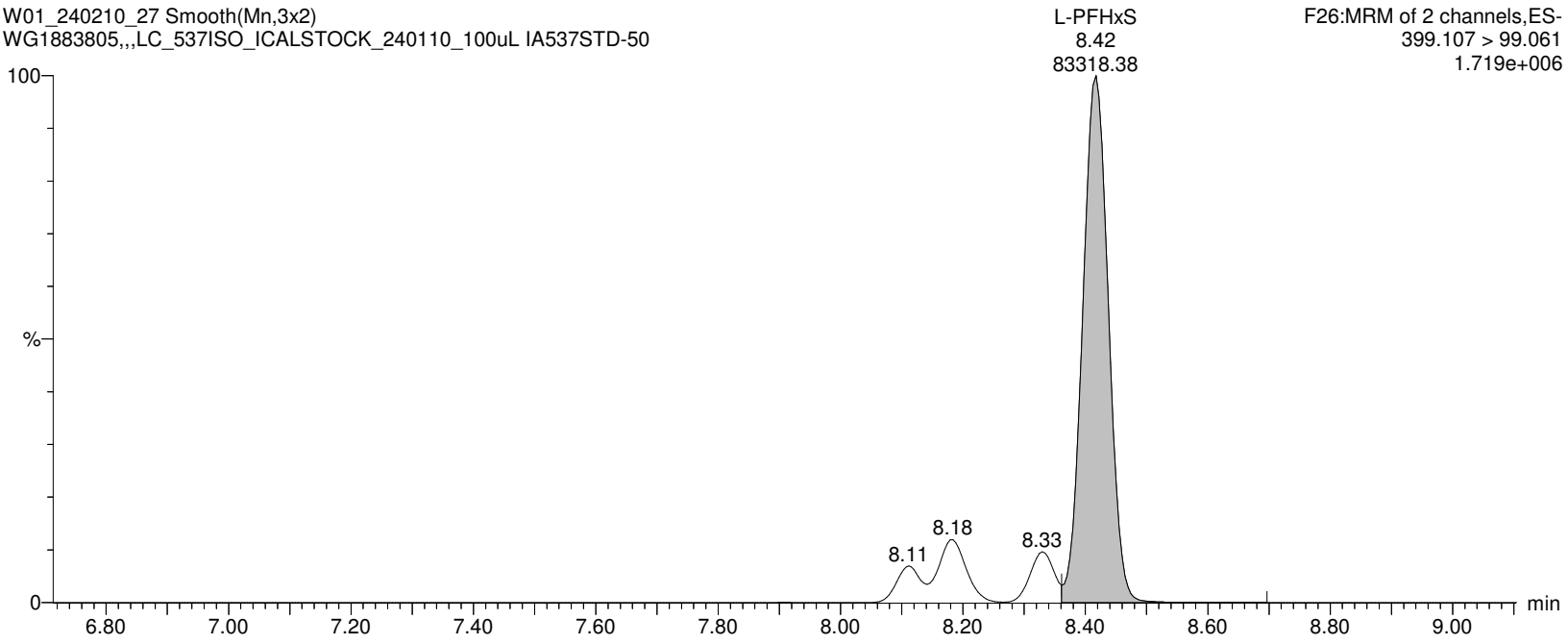

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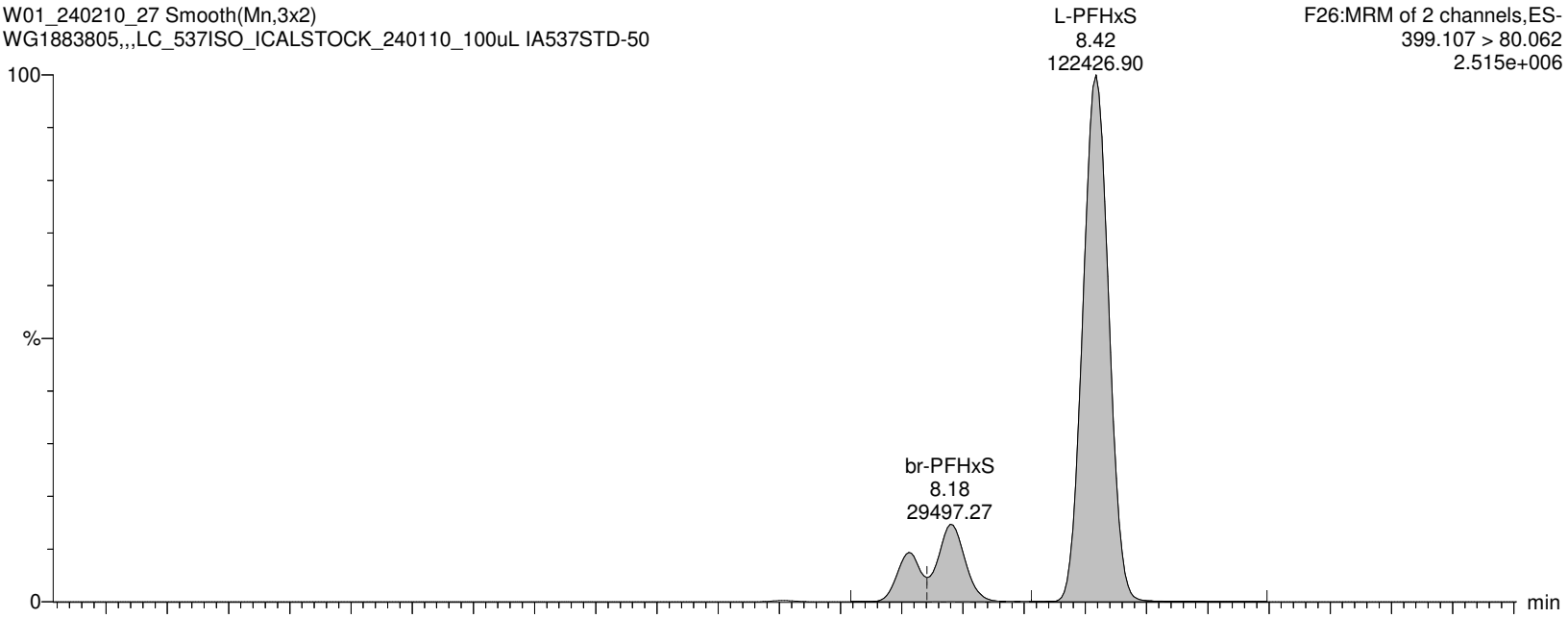

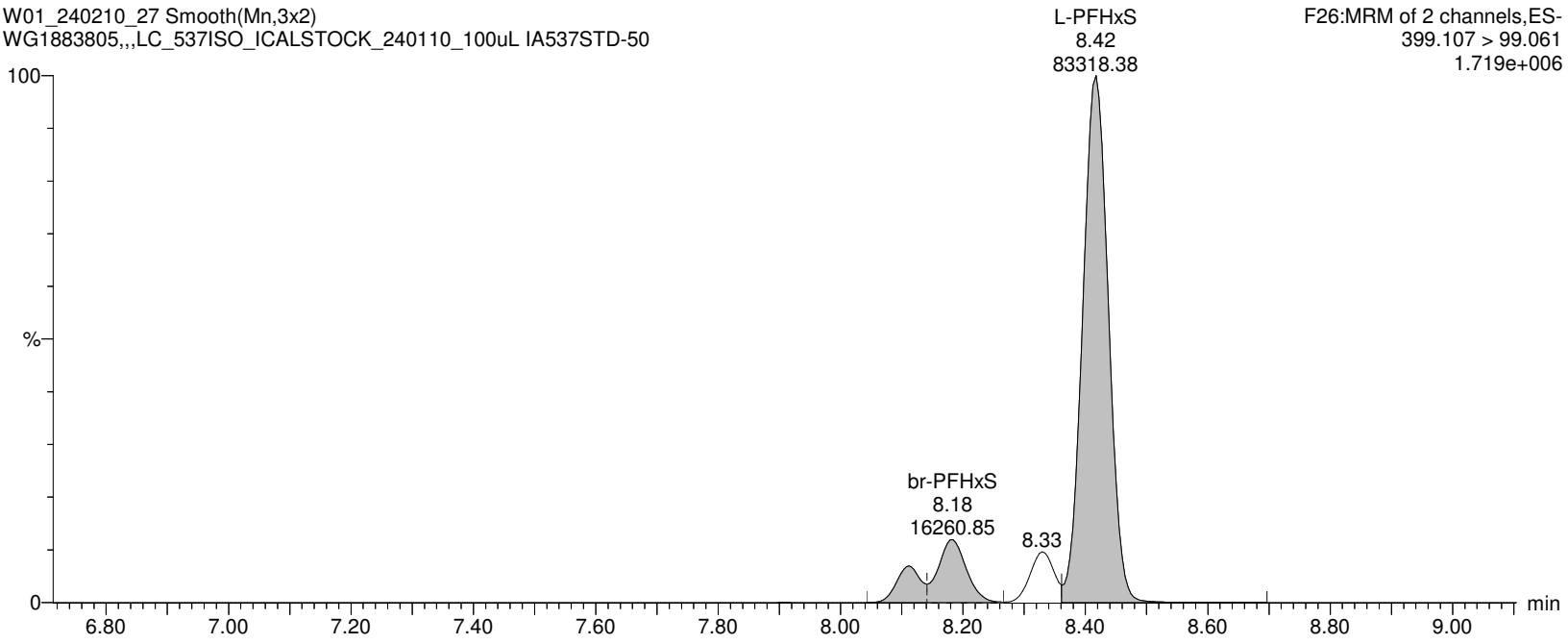

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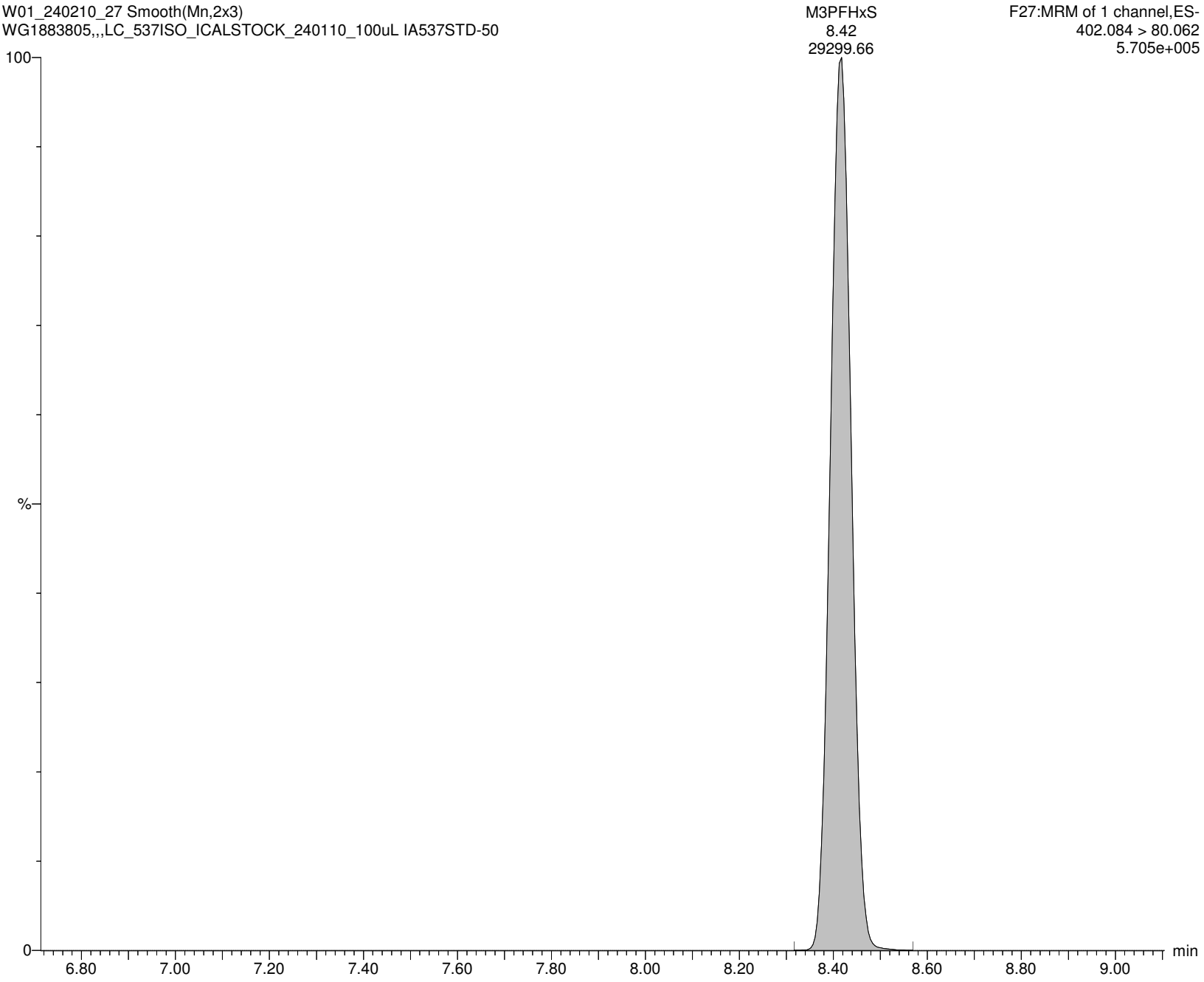

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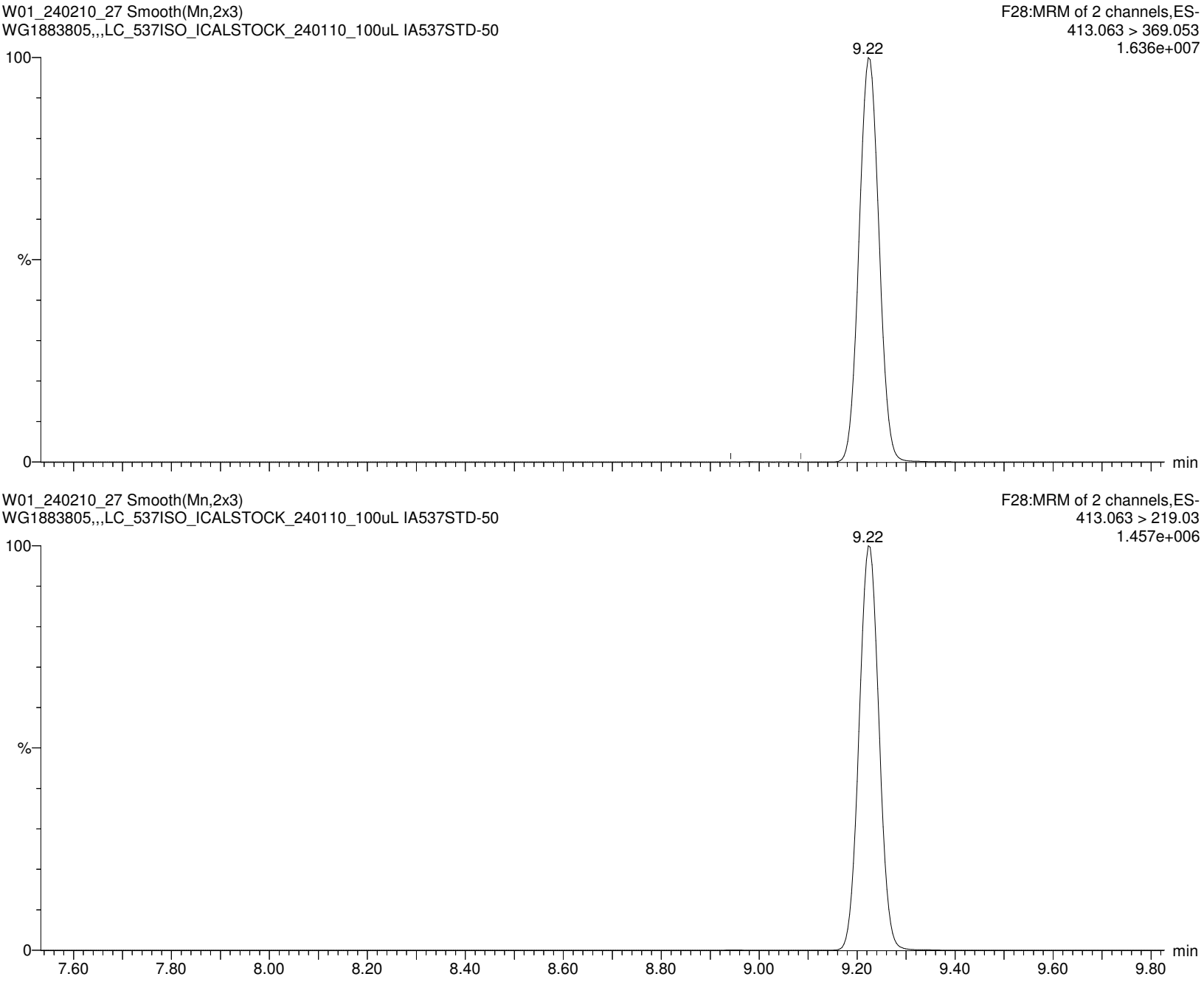

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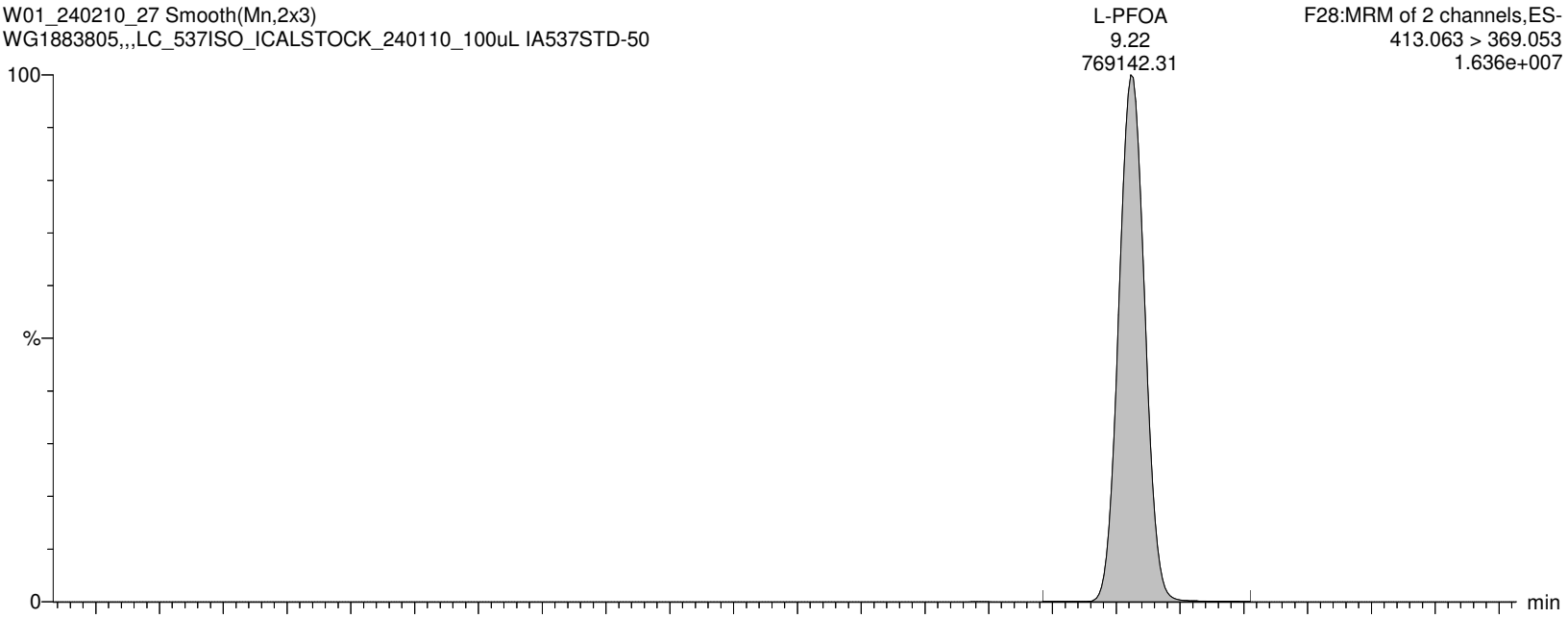

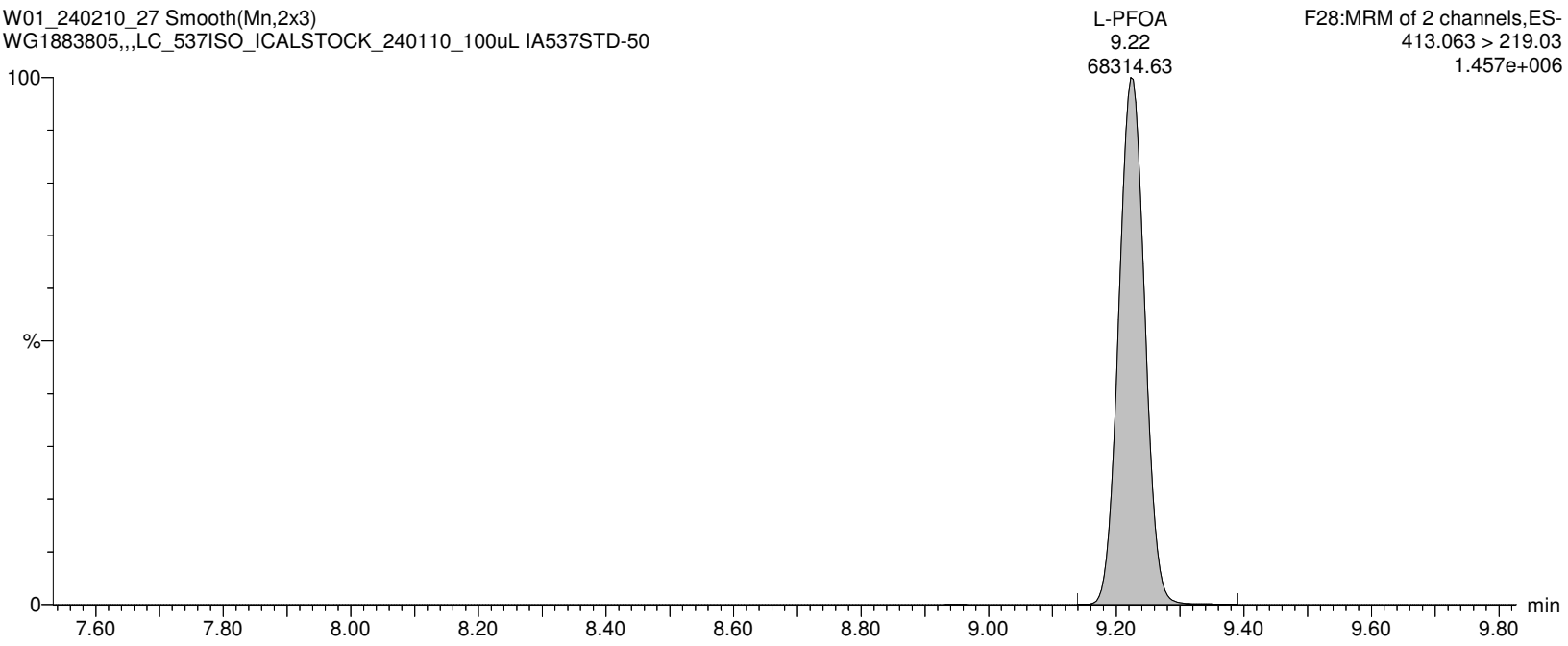

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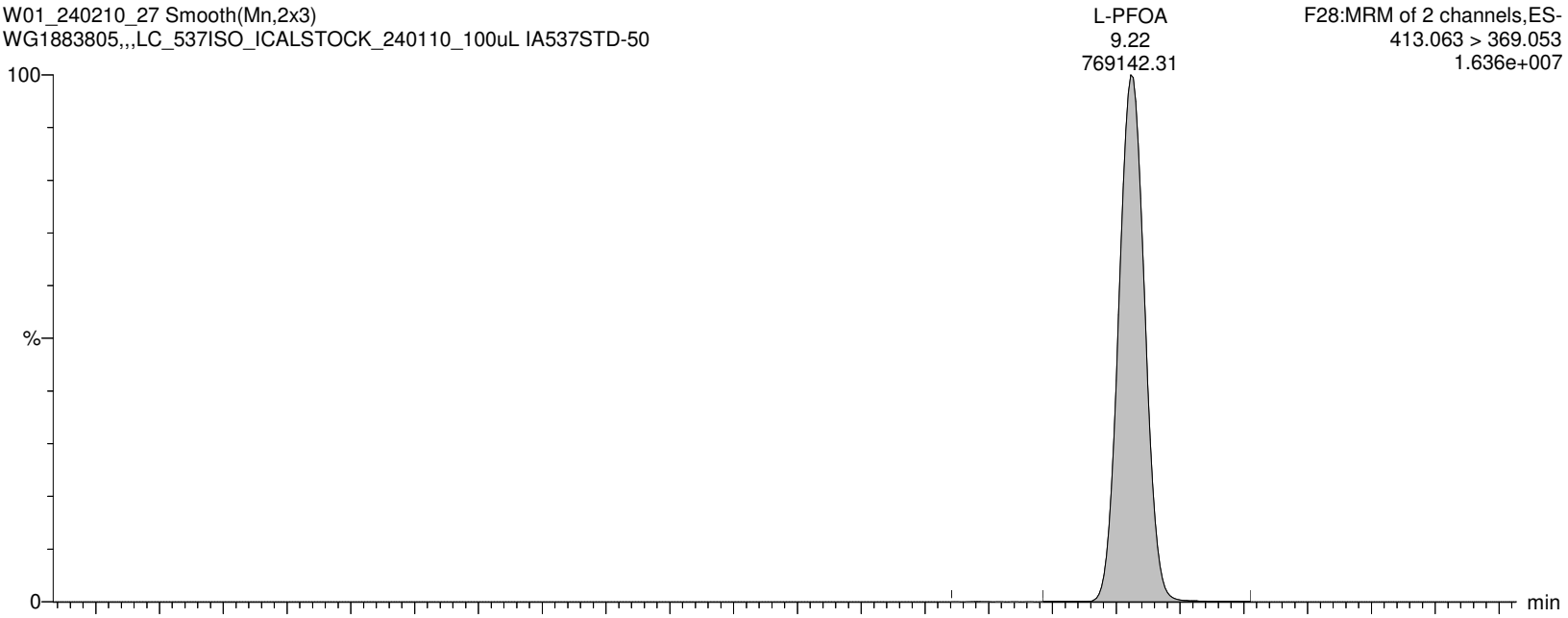

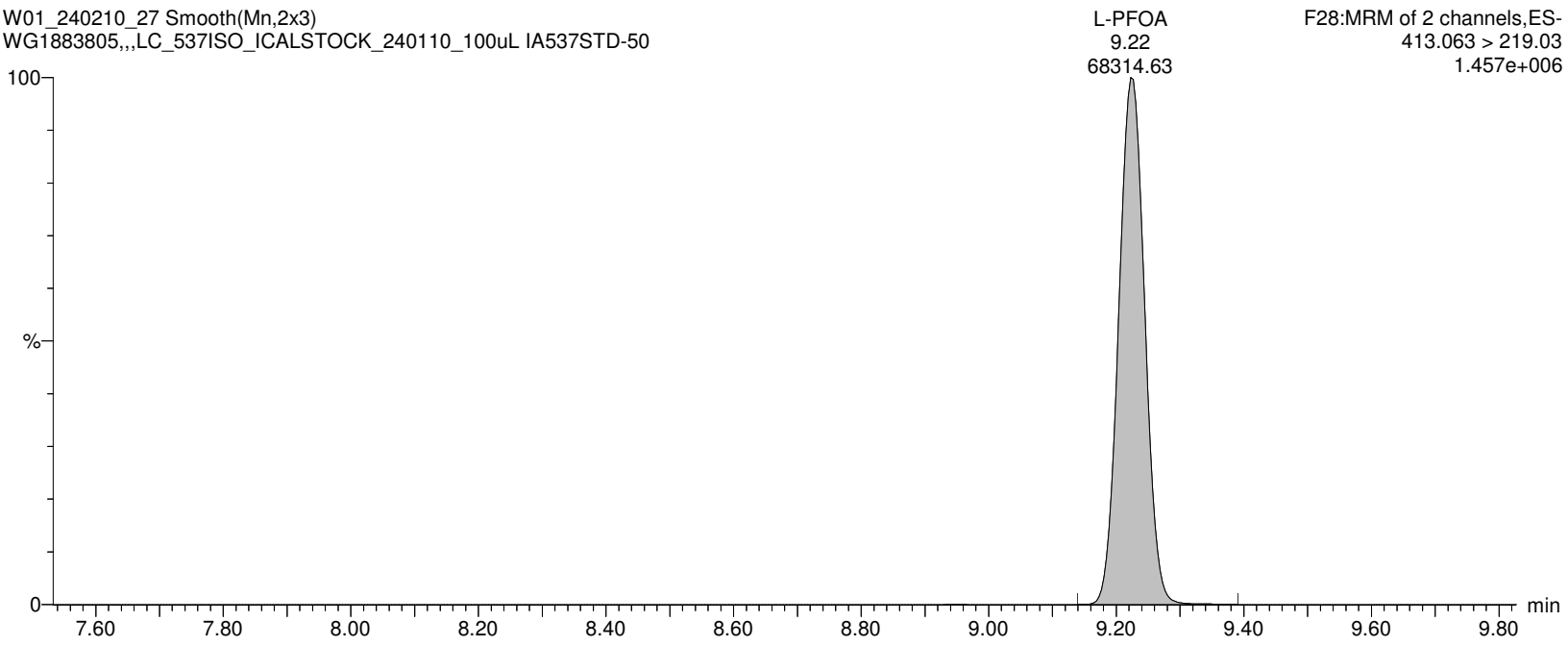

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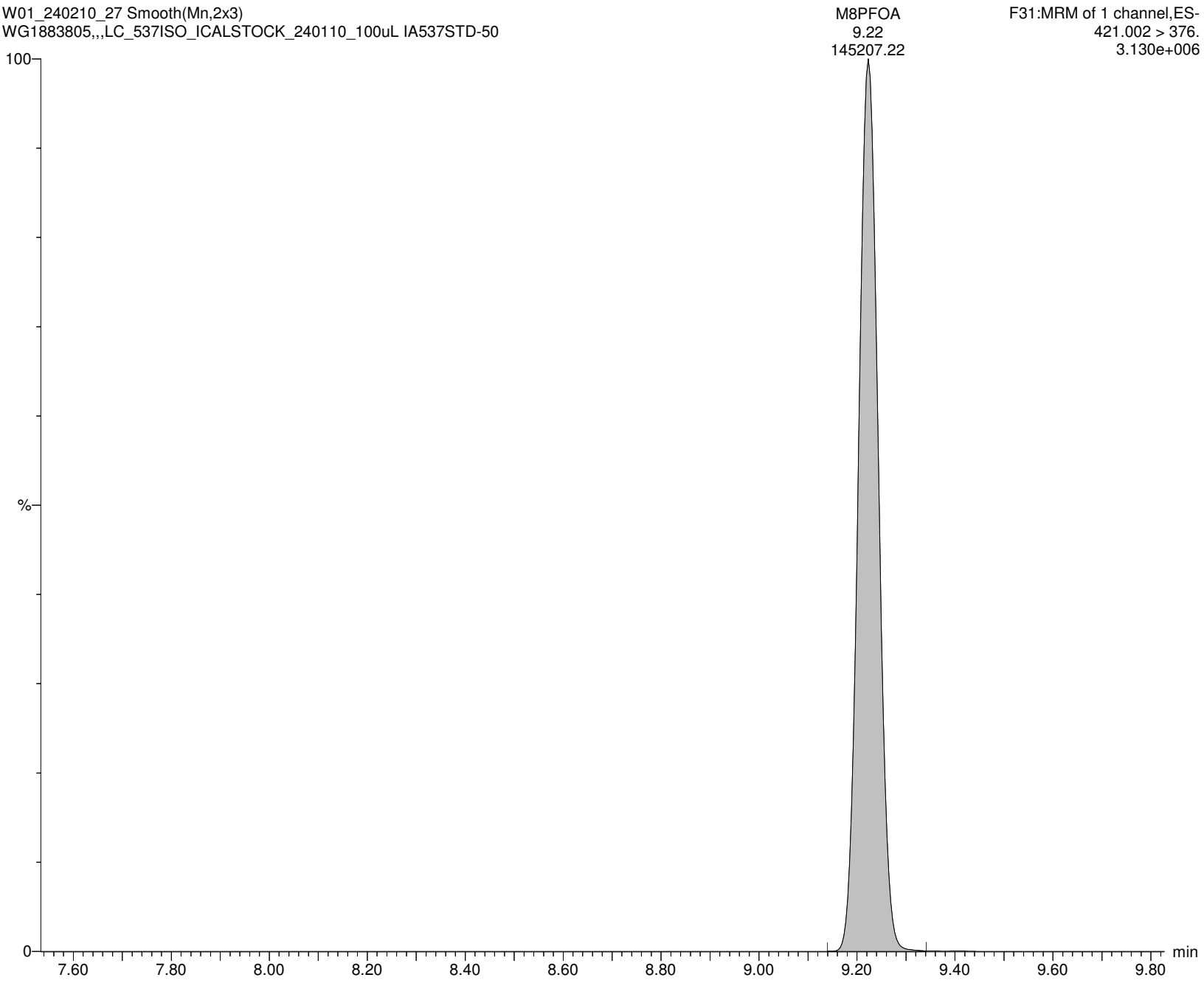

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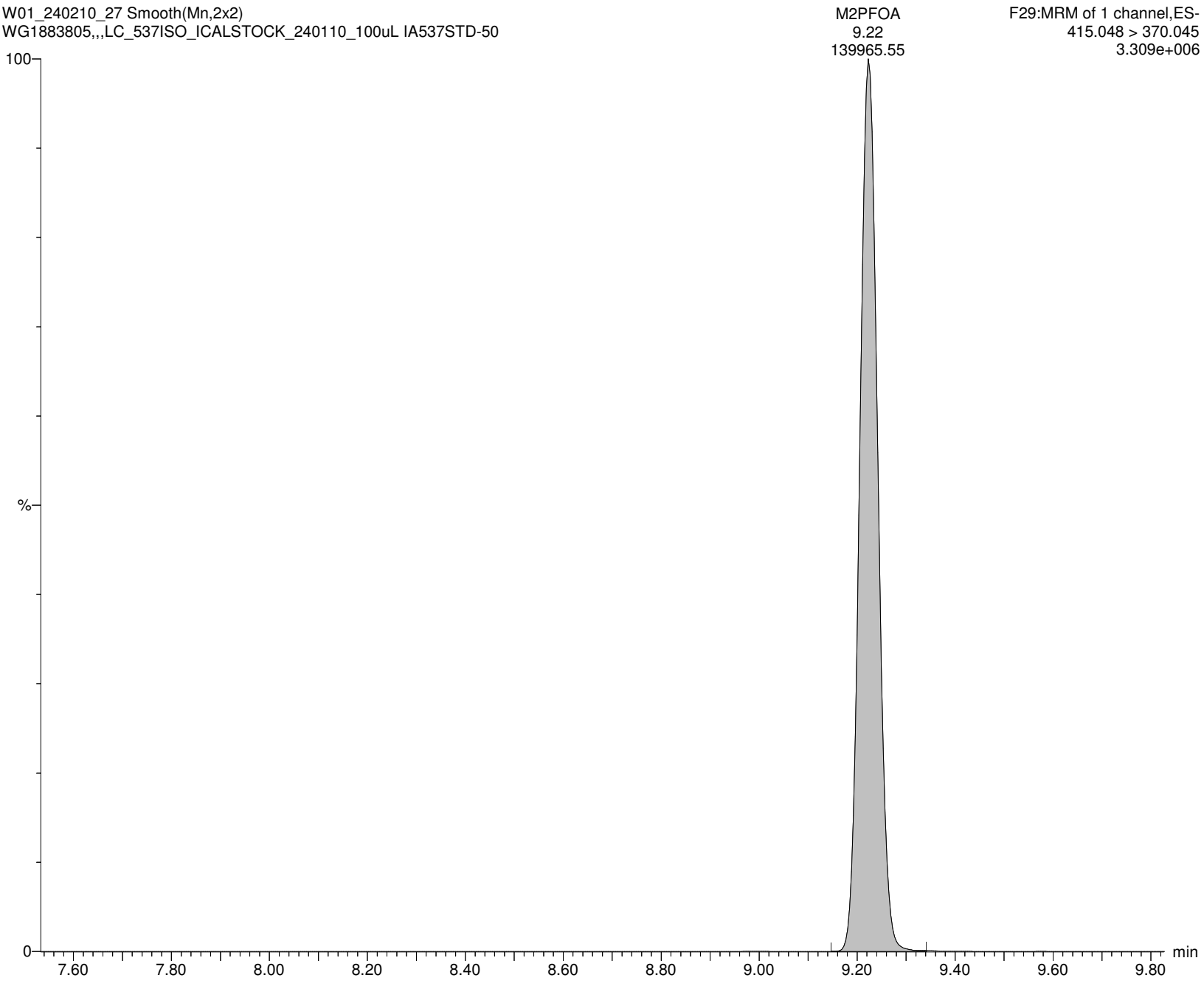

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

Name: W01_240210_27
ID: IA537STD-50
Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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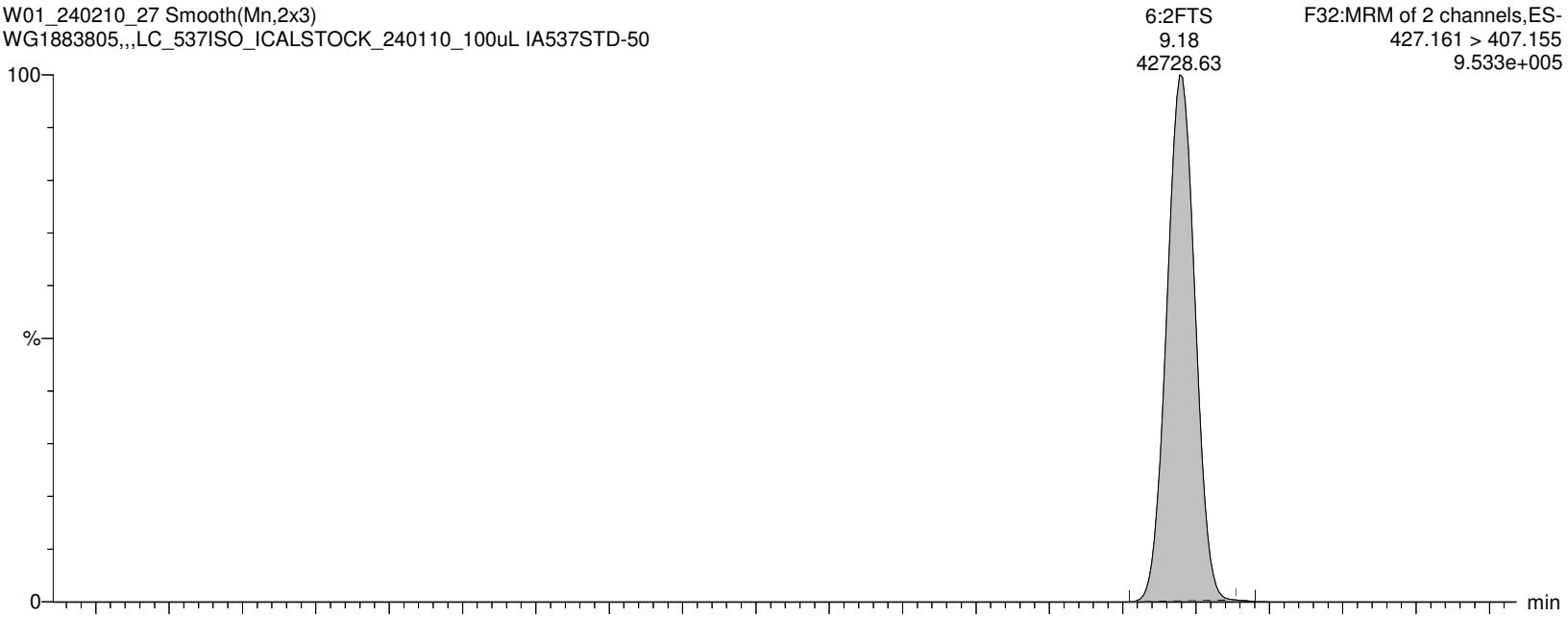

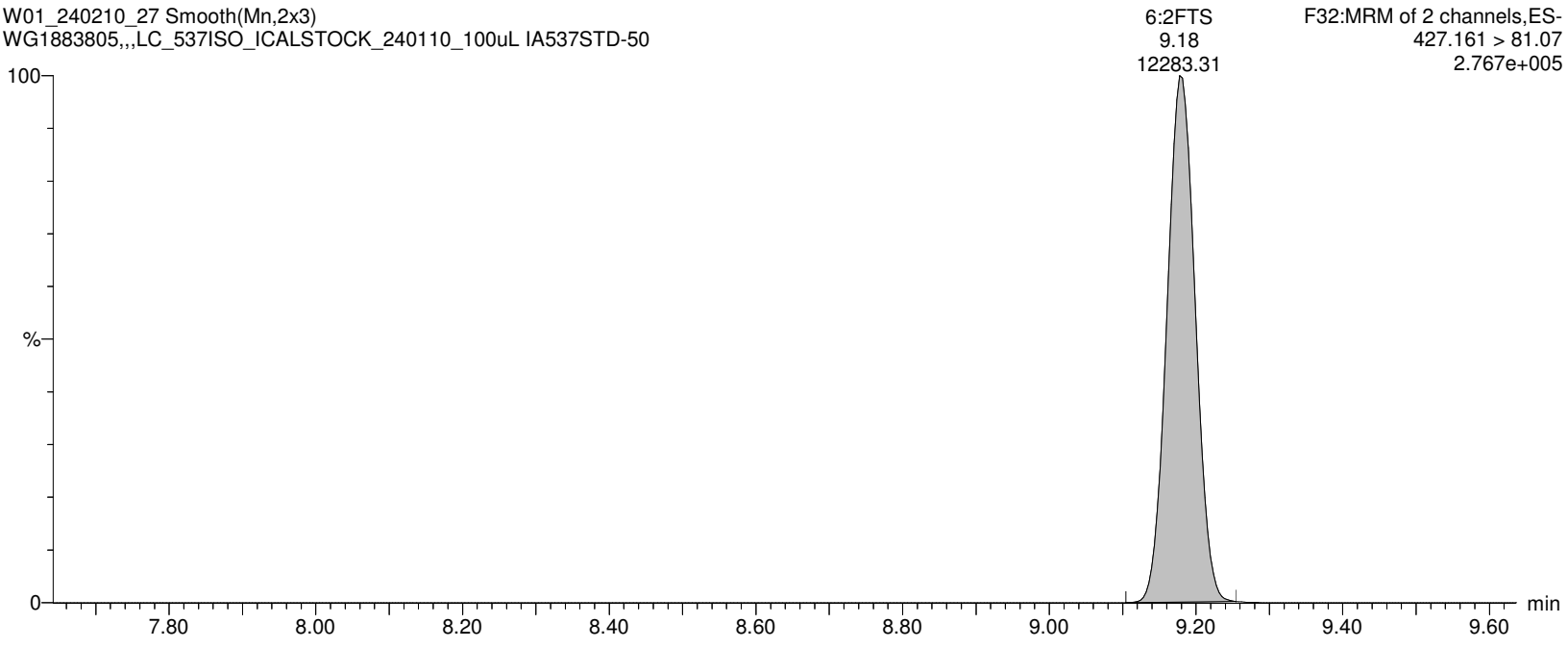

all concentration units in (ng/mL)

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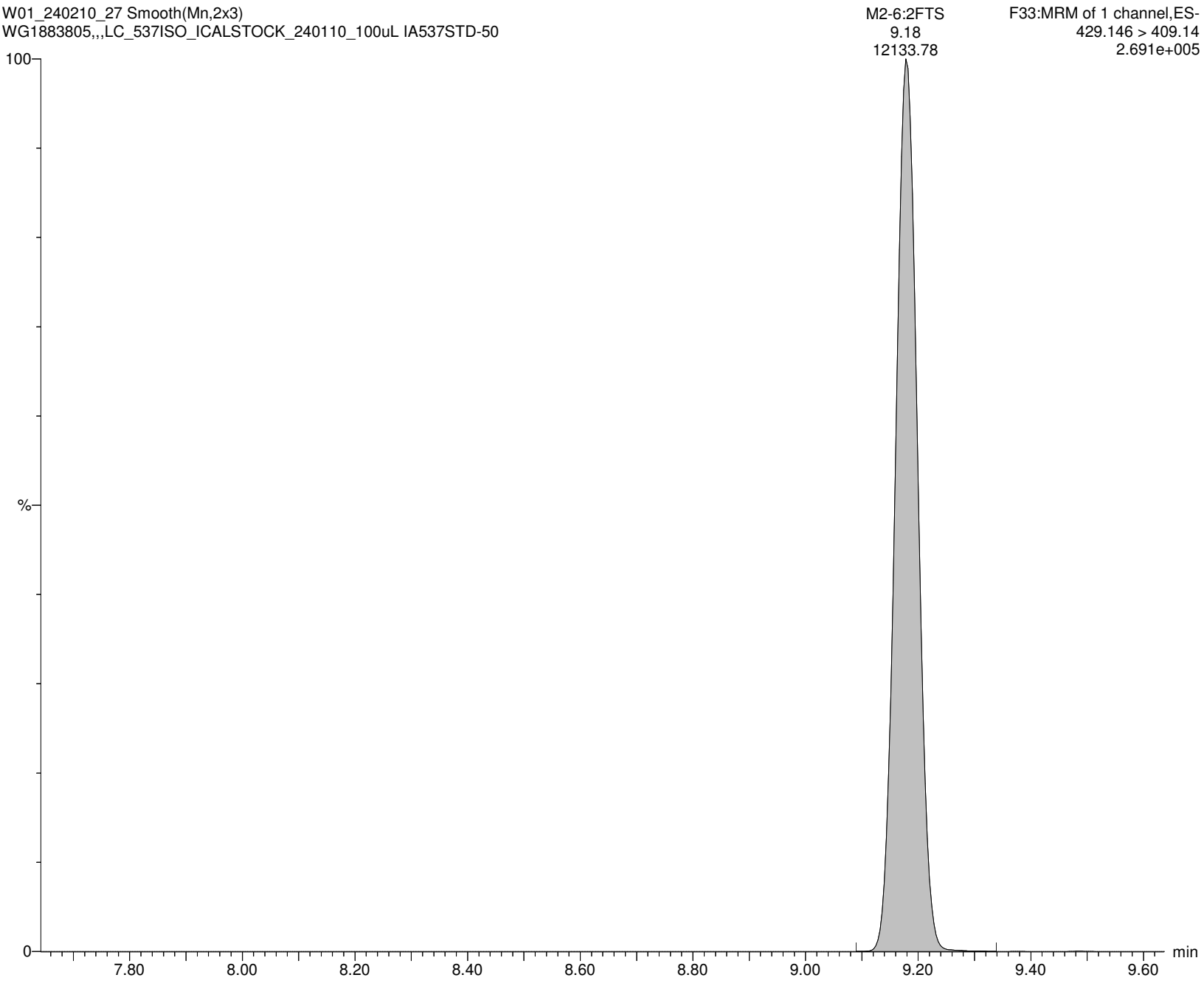

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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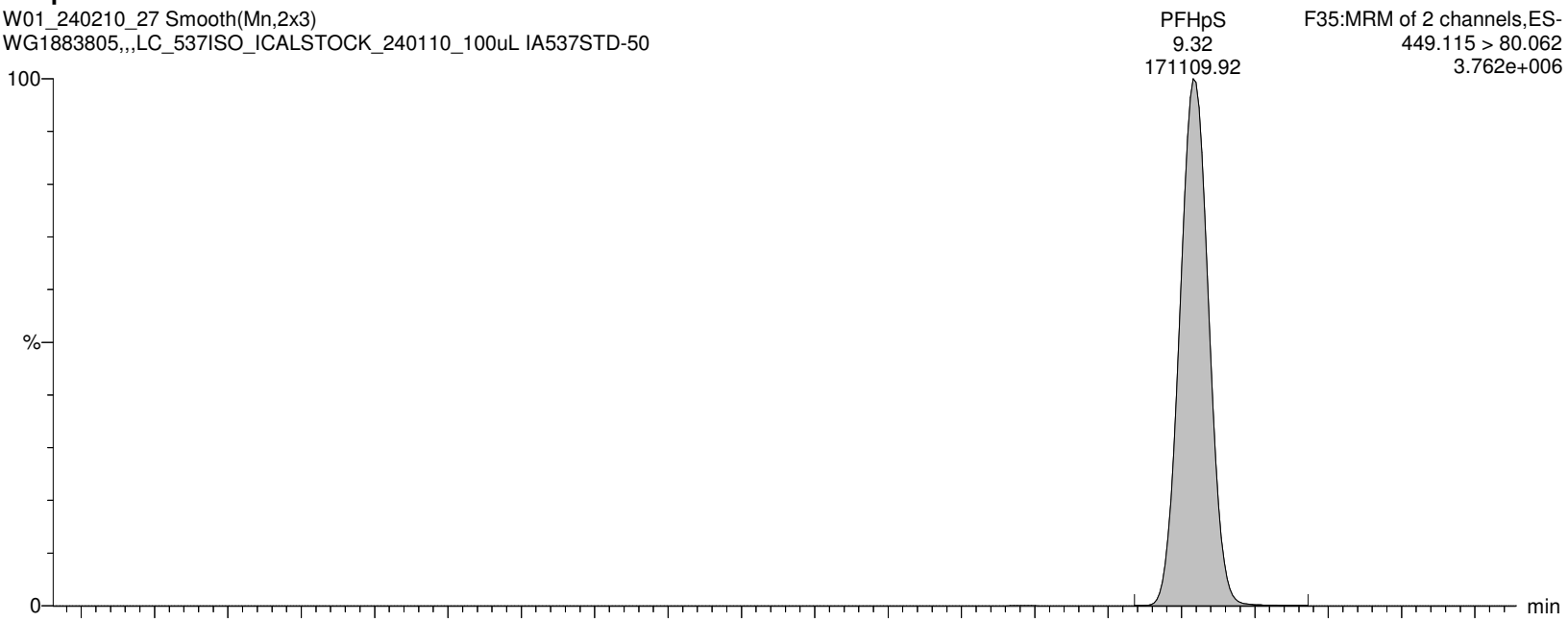

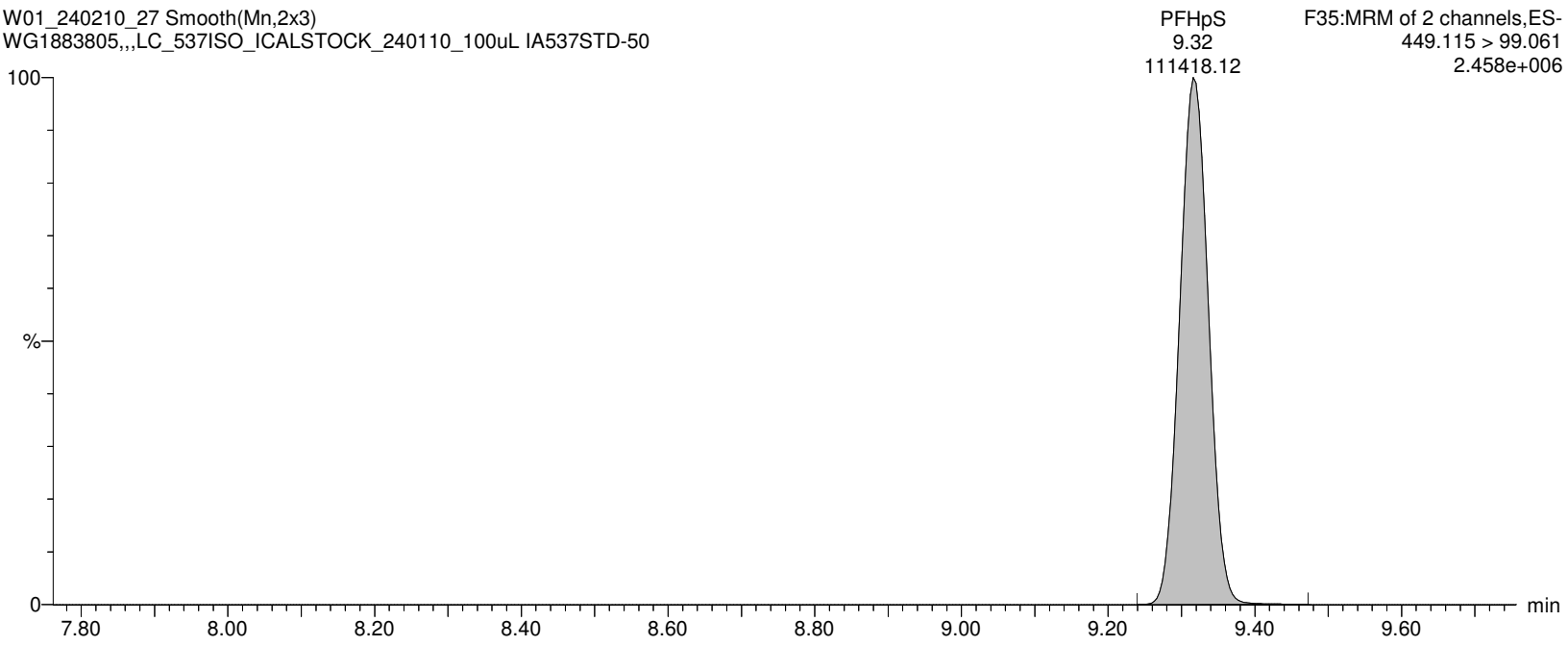

all concentration units in (ng/mL)

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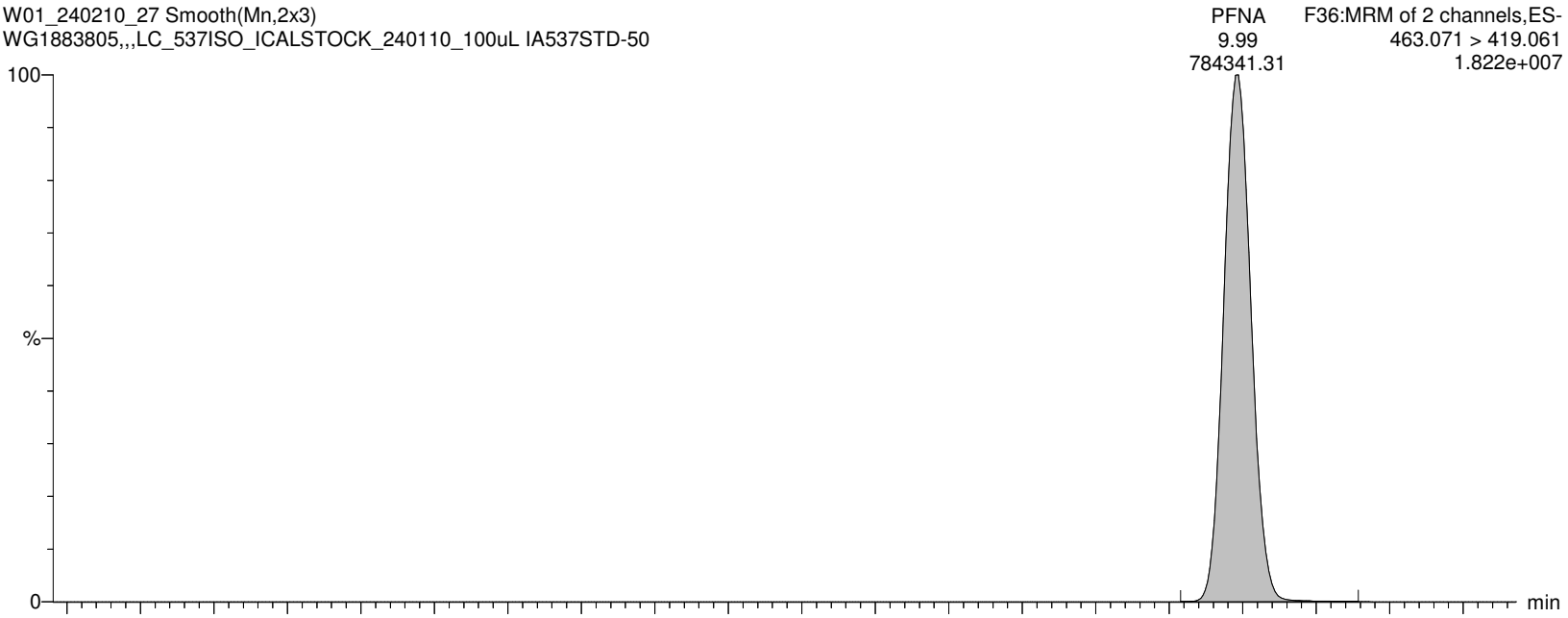

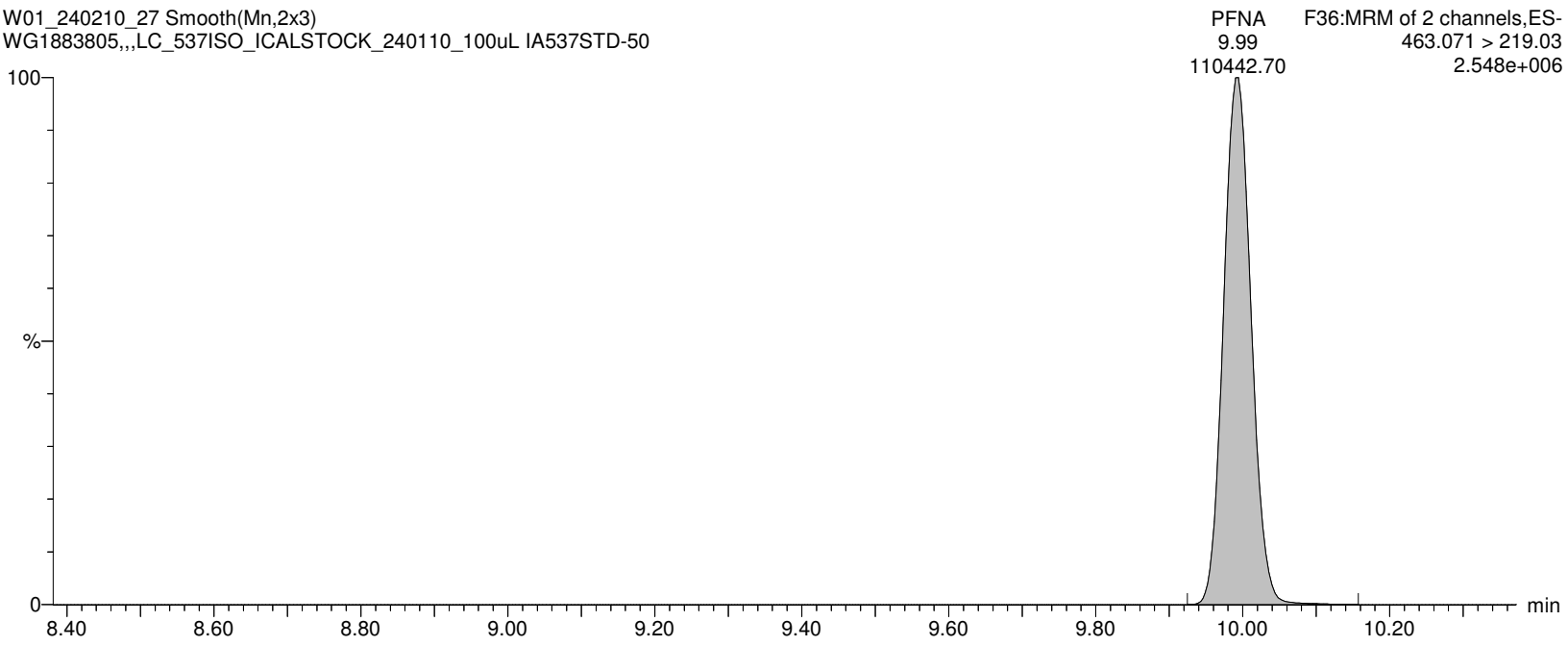

all concentration units in (ng/mL)

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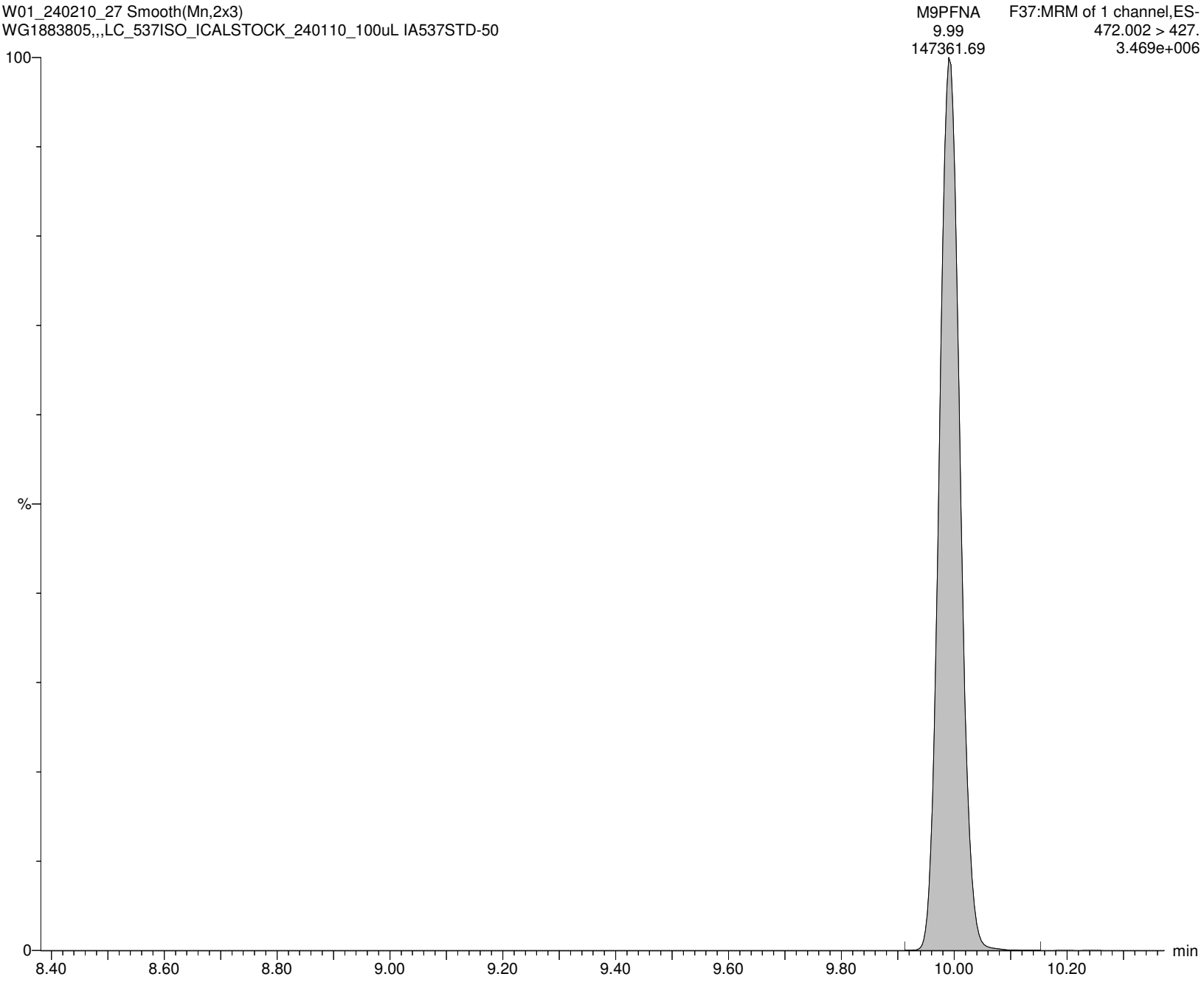

all concentration units in (ng/mL)

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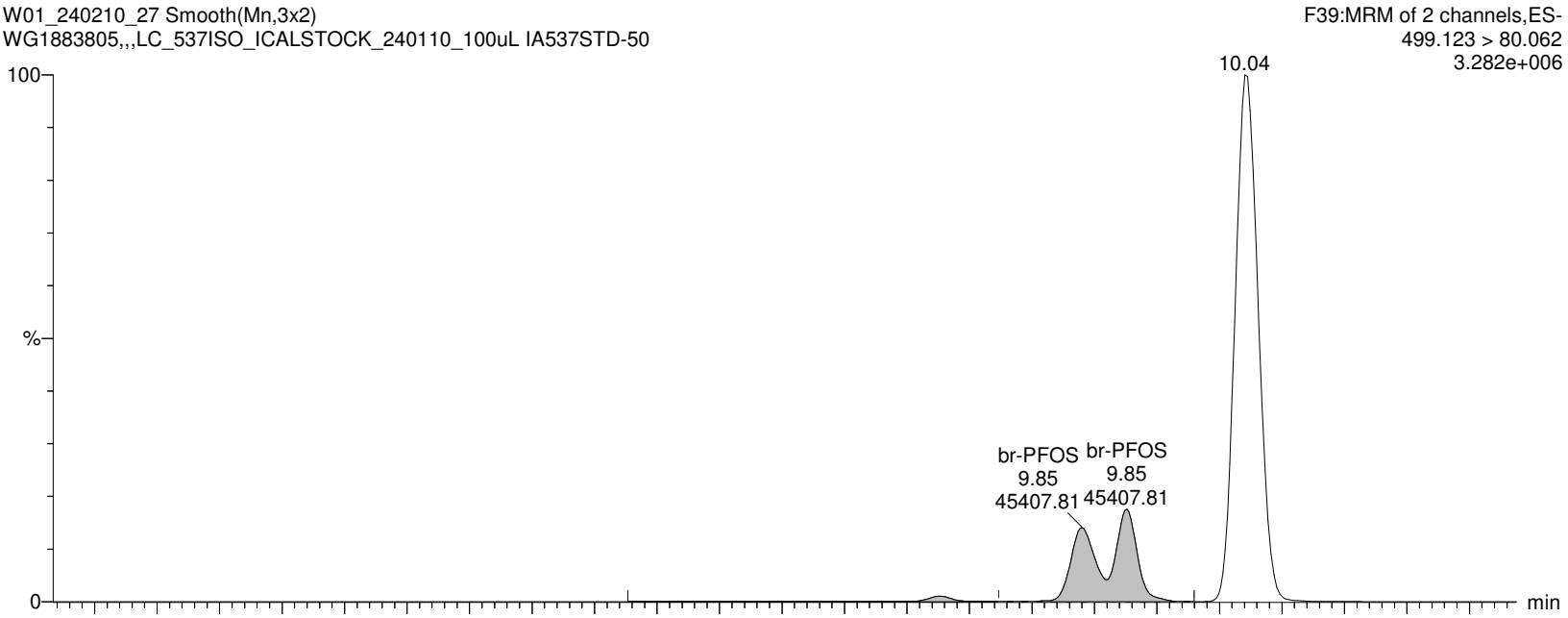

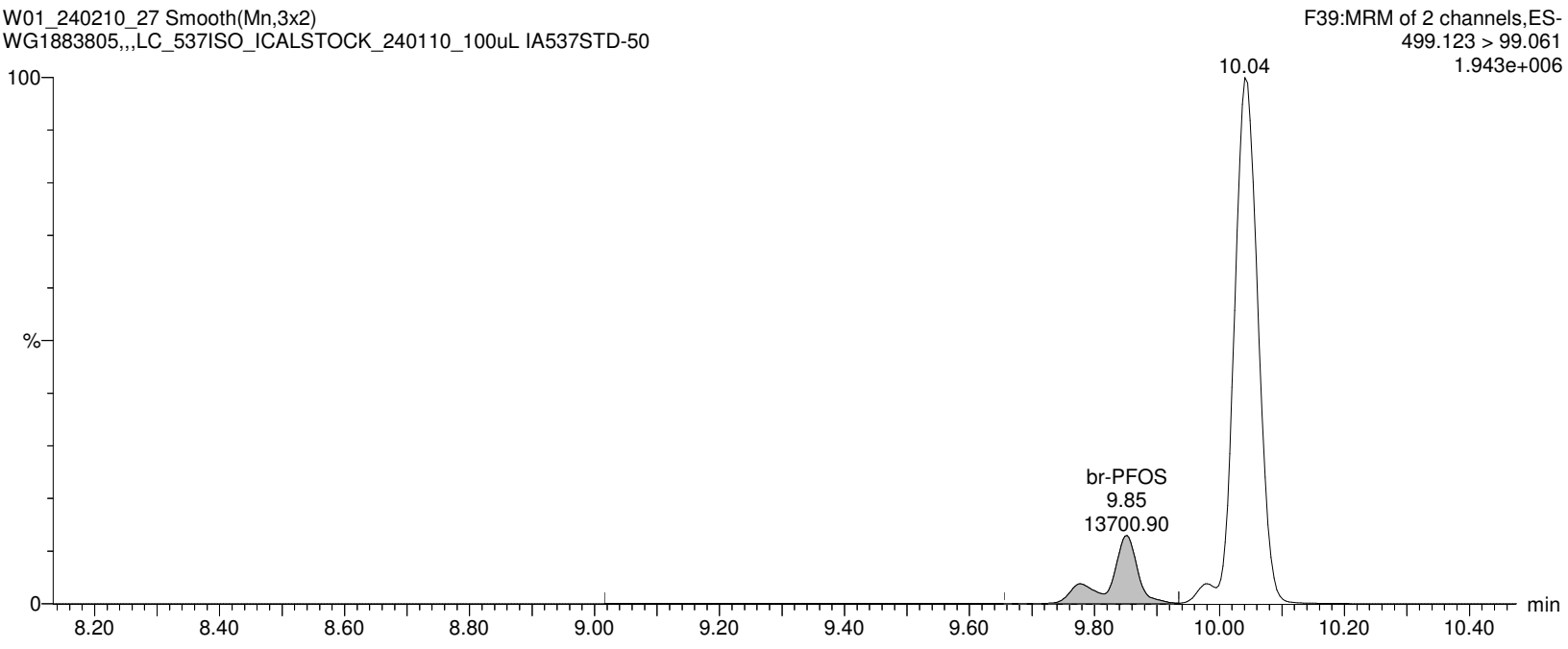

all concentration units in (ng/mL)

Alpha Analytical Inc.
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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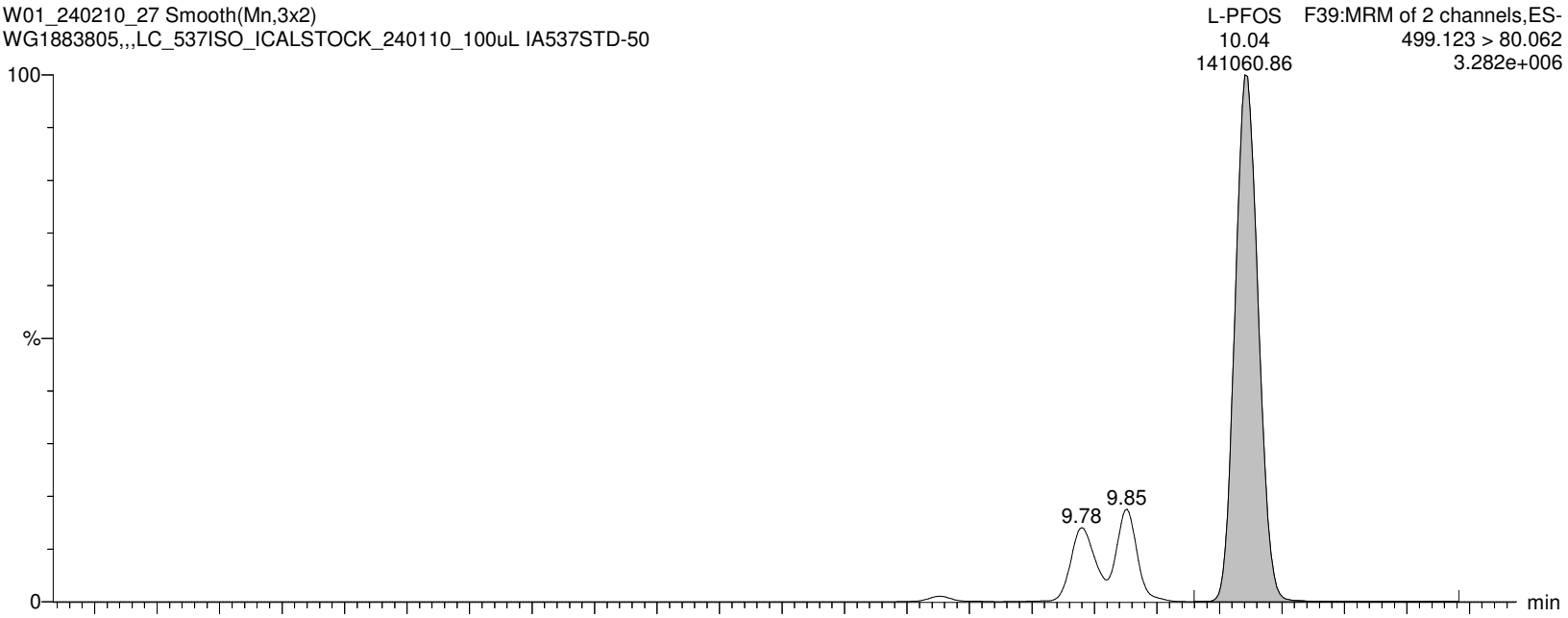

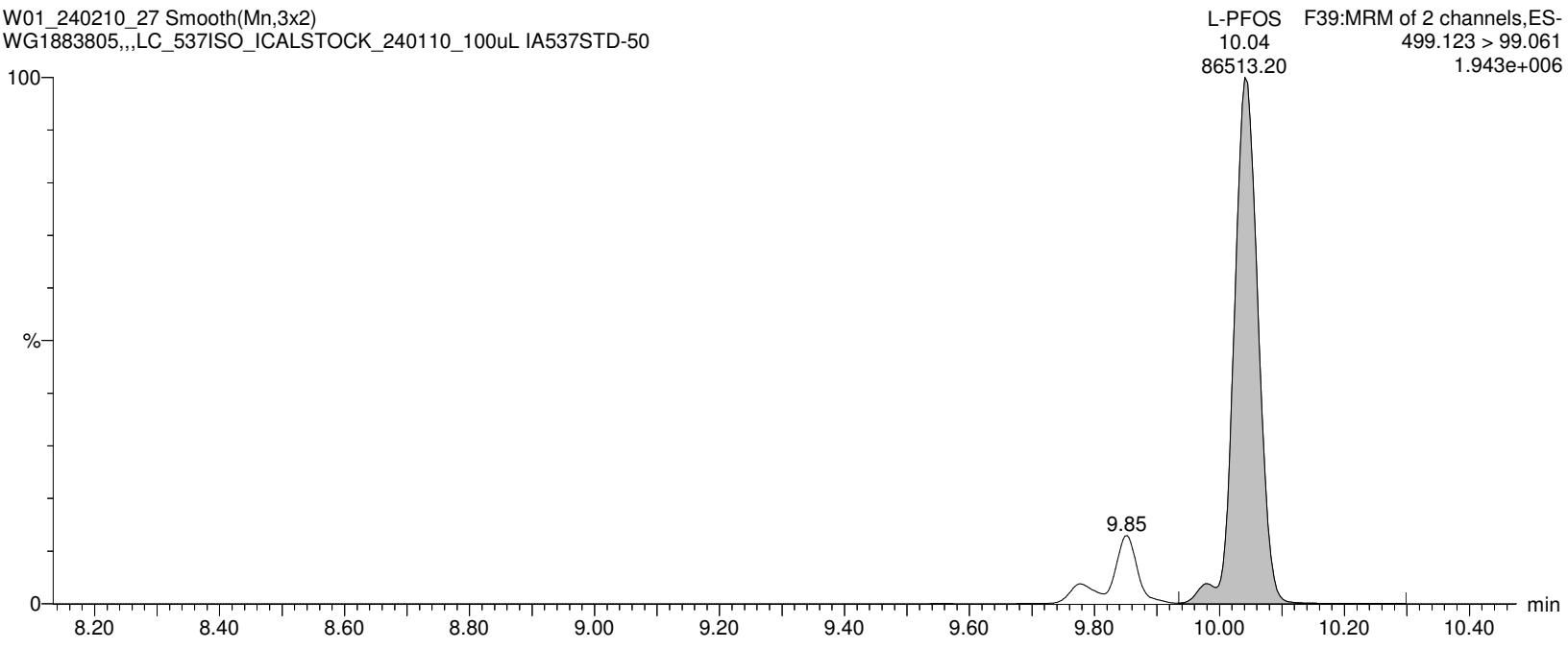

all concentration units in (ng/mL)

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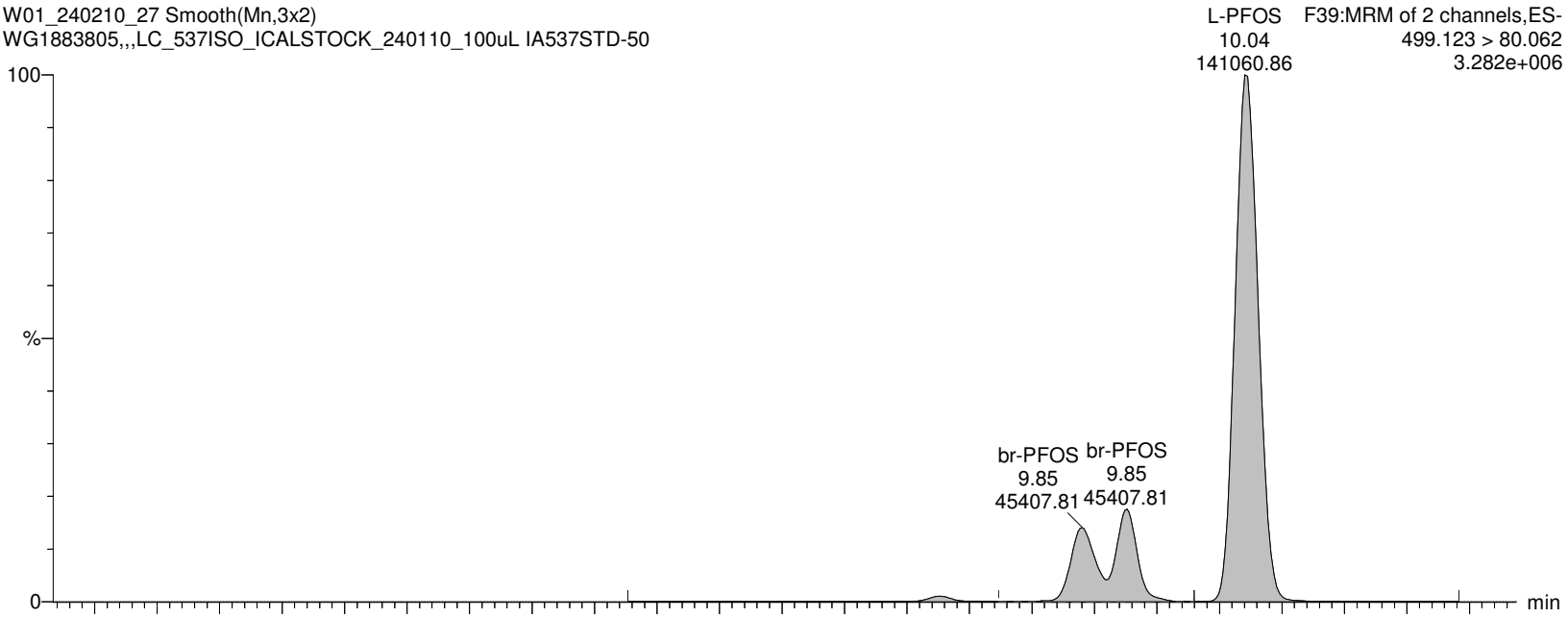

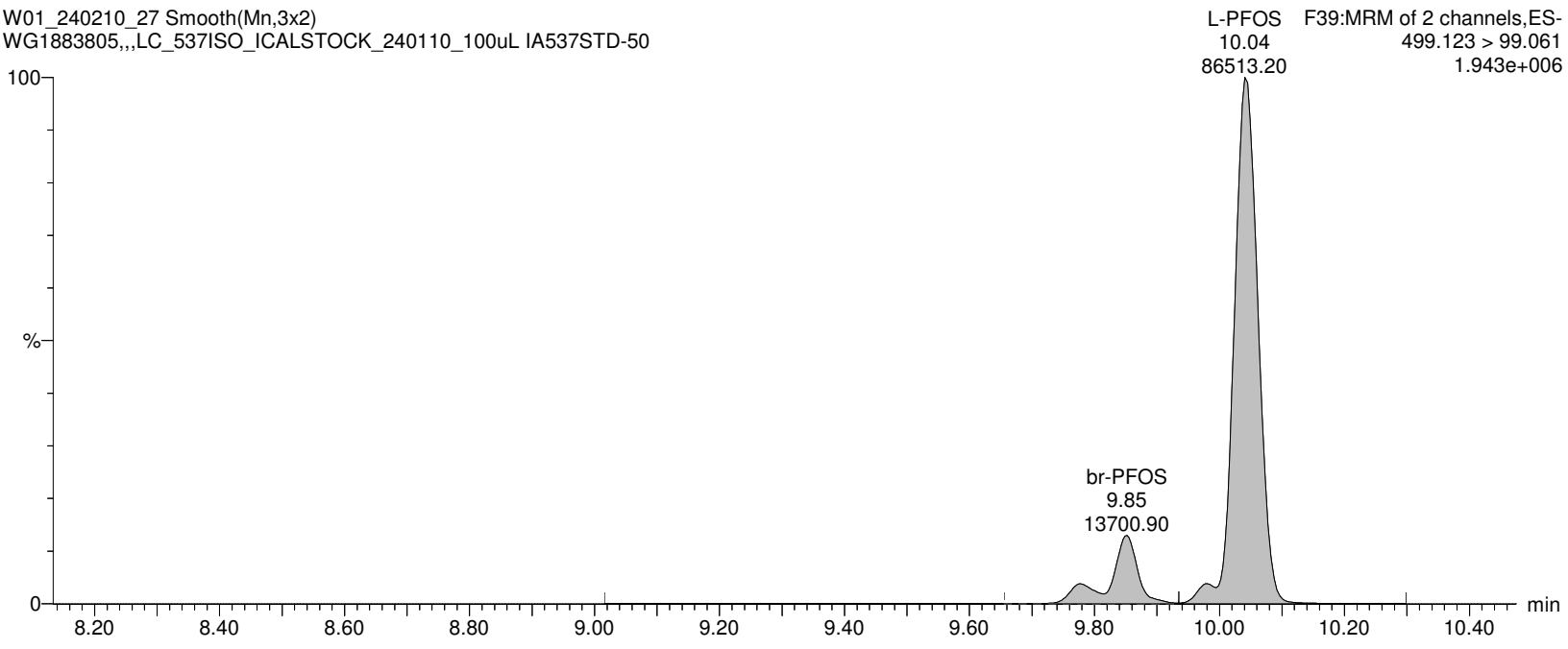

all concentration units in (ng/mL)

Alpha Analytical Inc.
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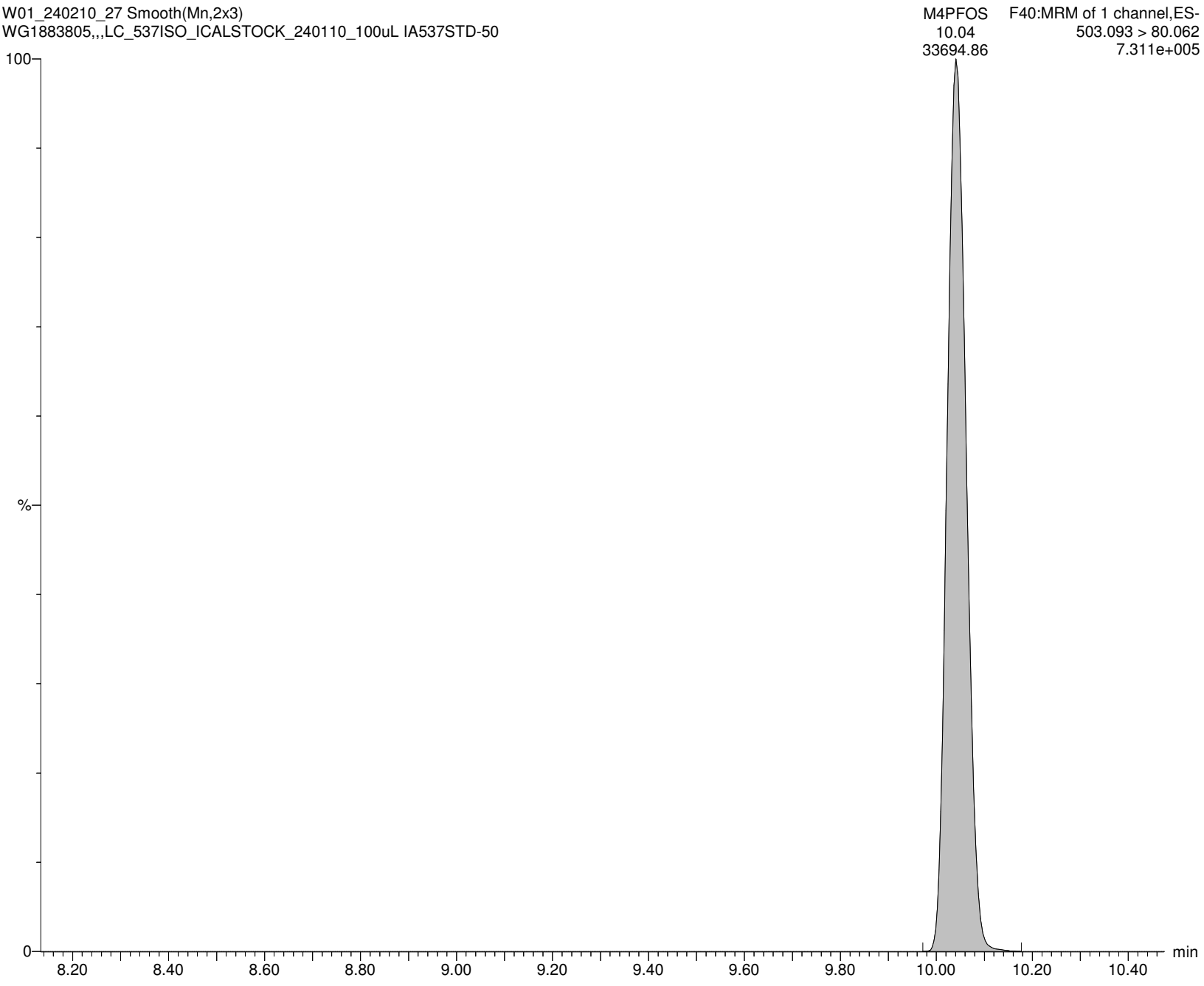

all concentration units in (ng/mL)

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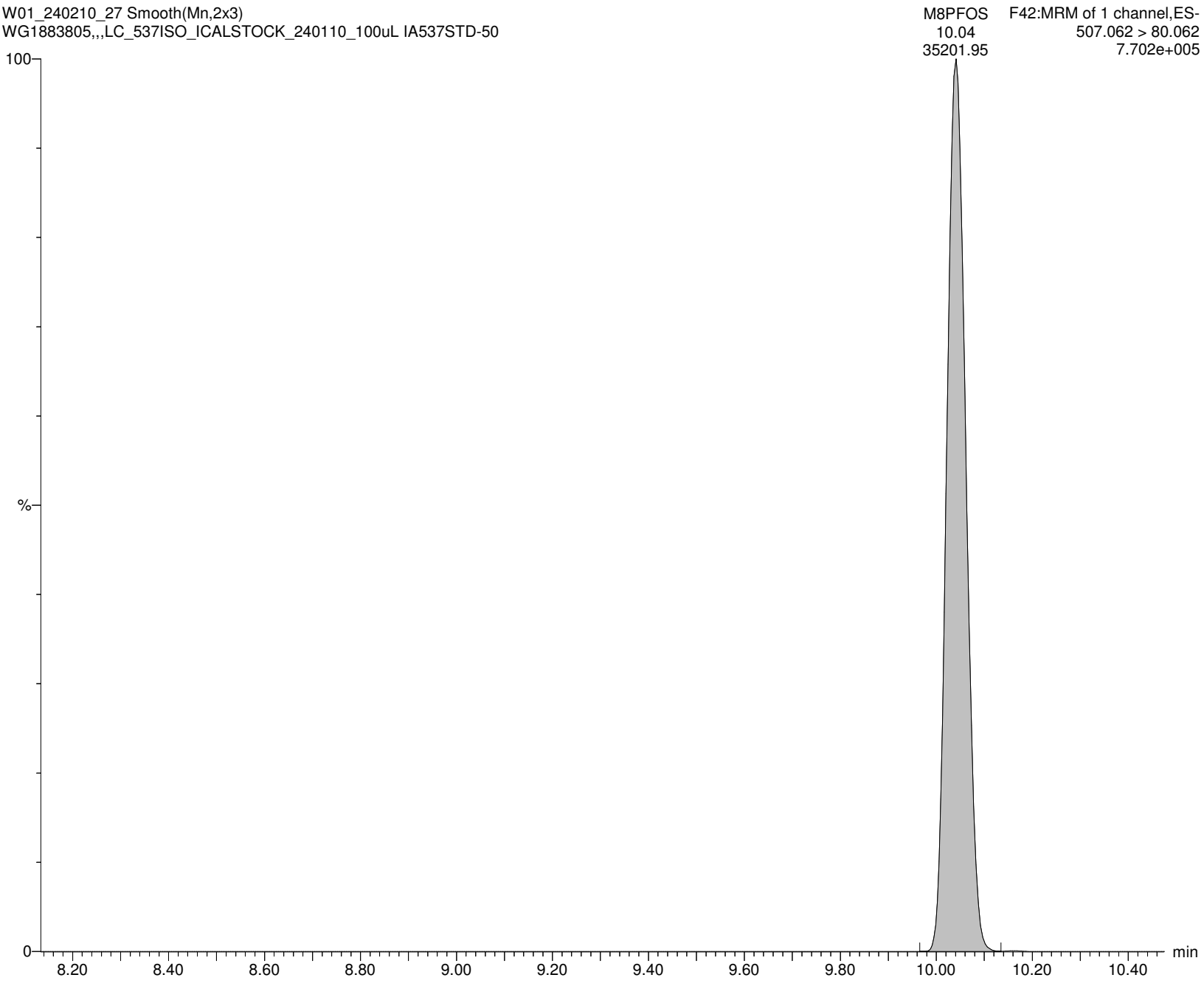

all concentration units in (ng/mL)

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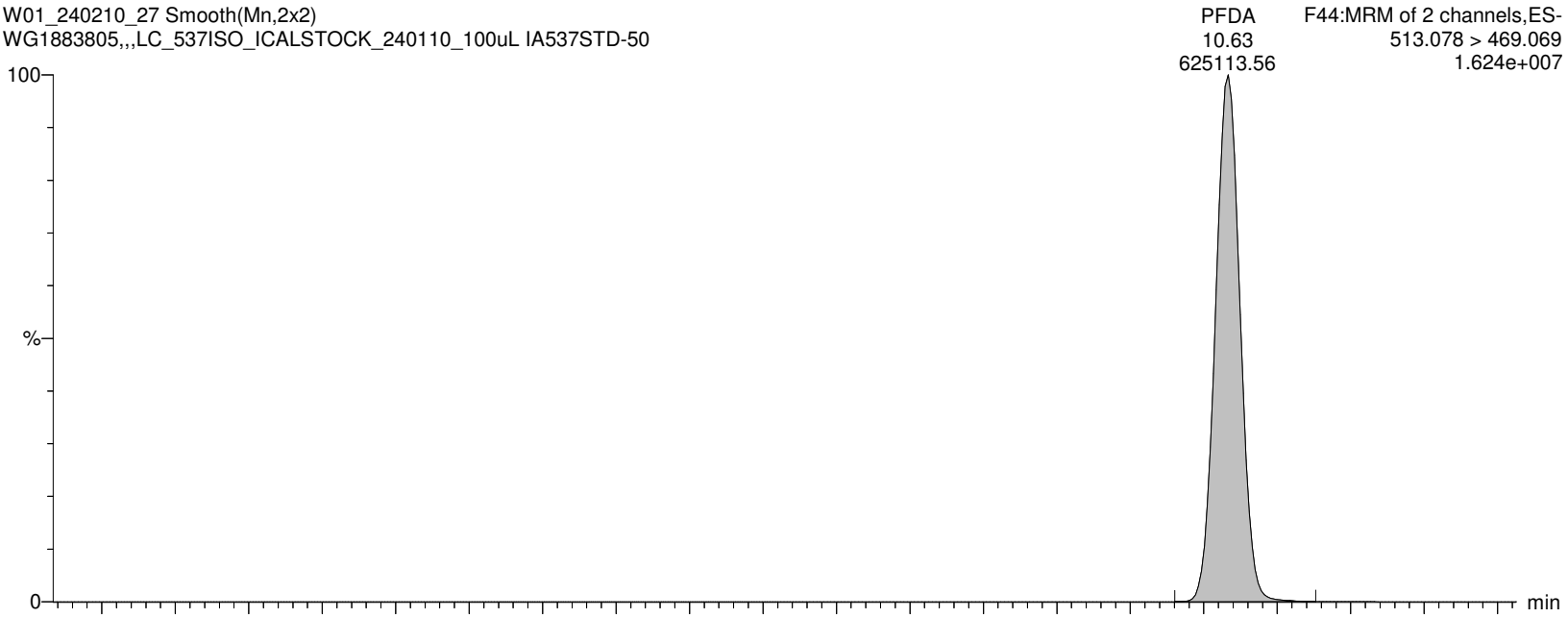

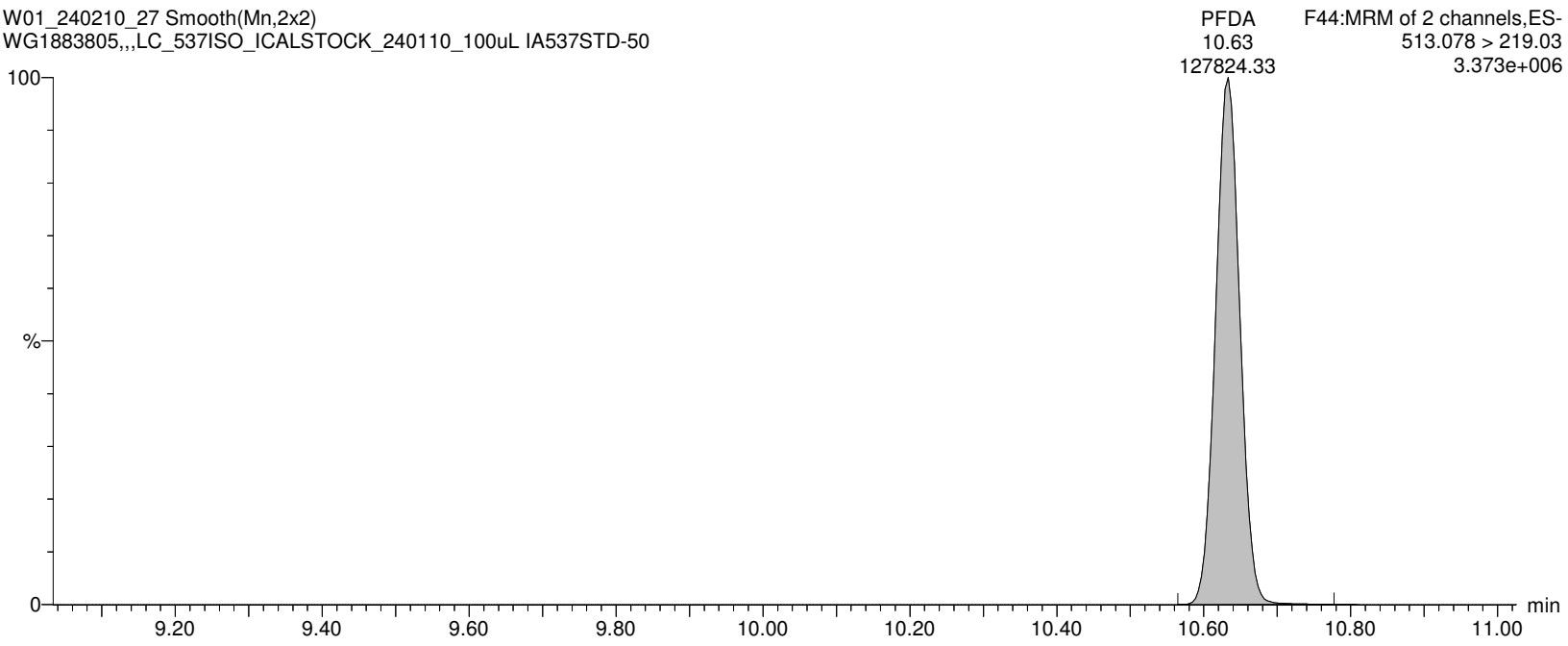

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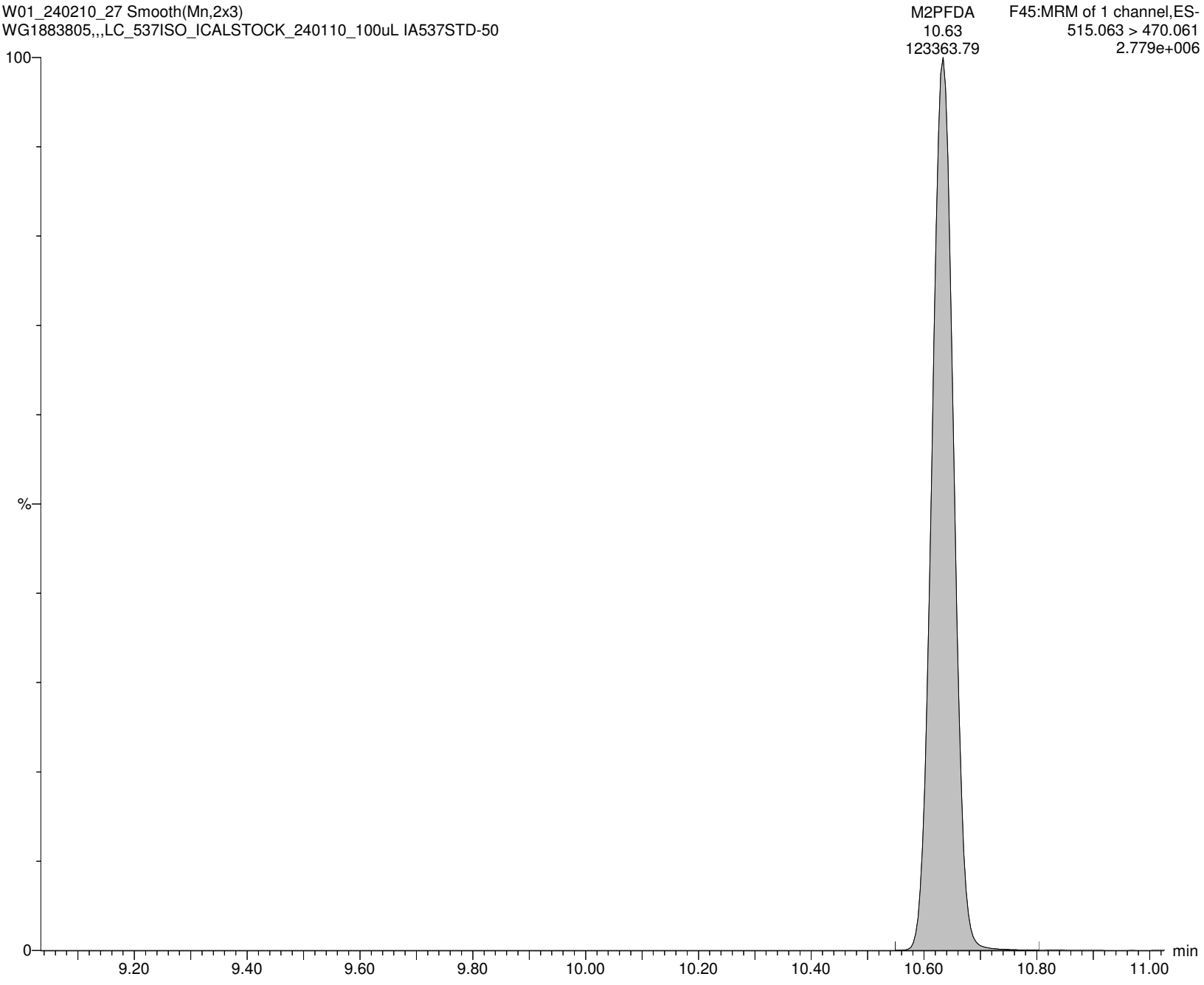
M2PFDA



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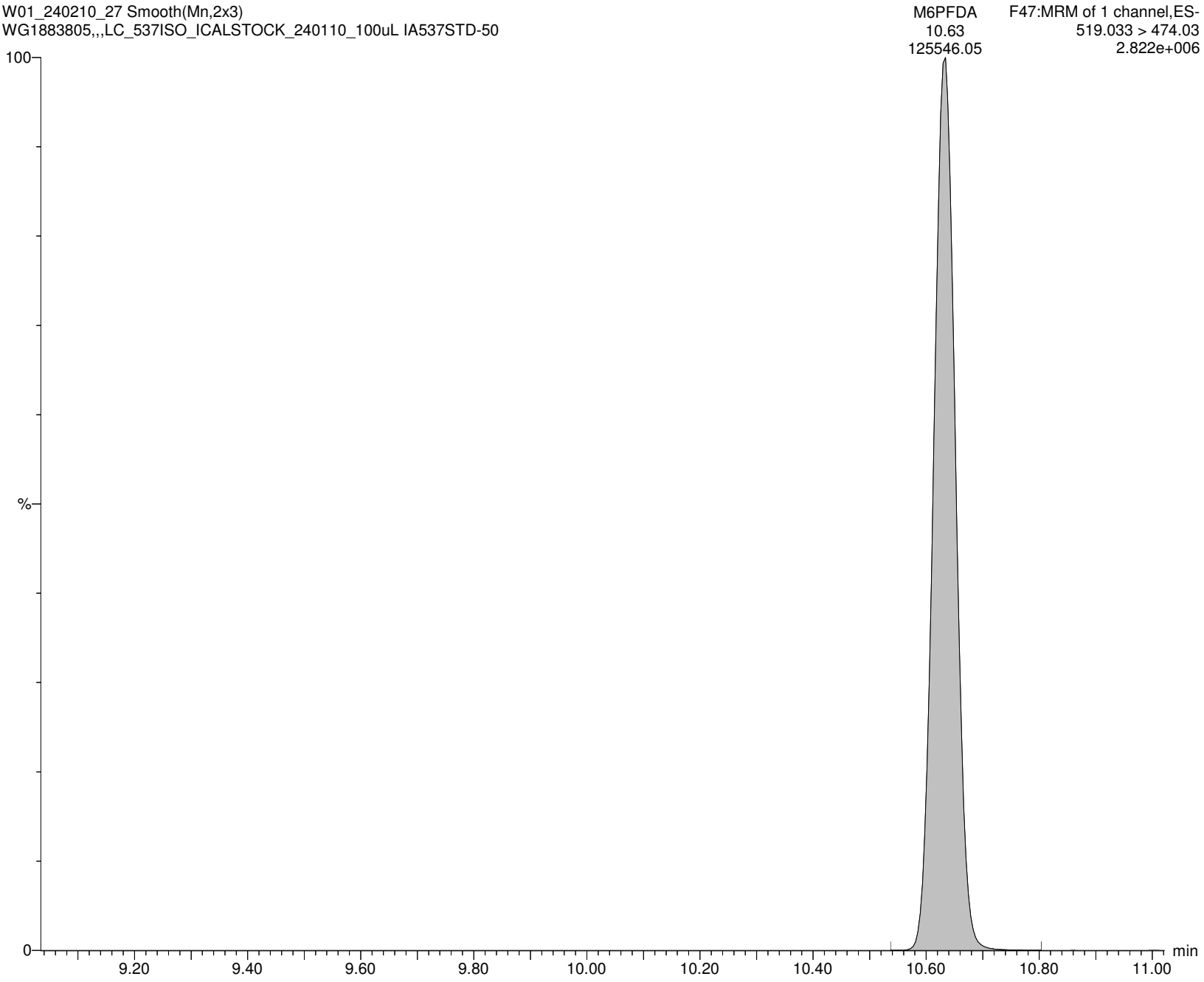

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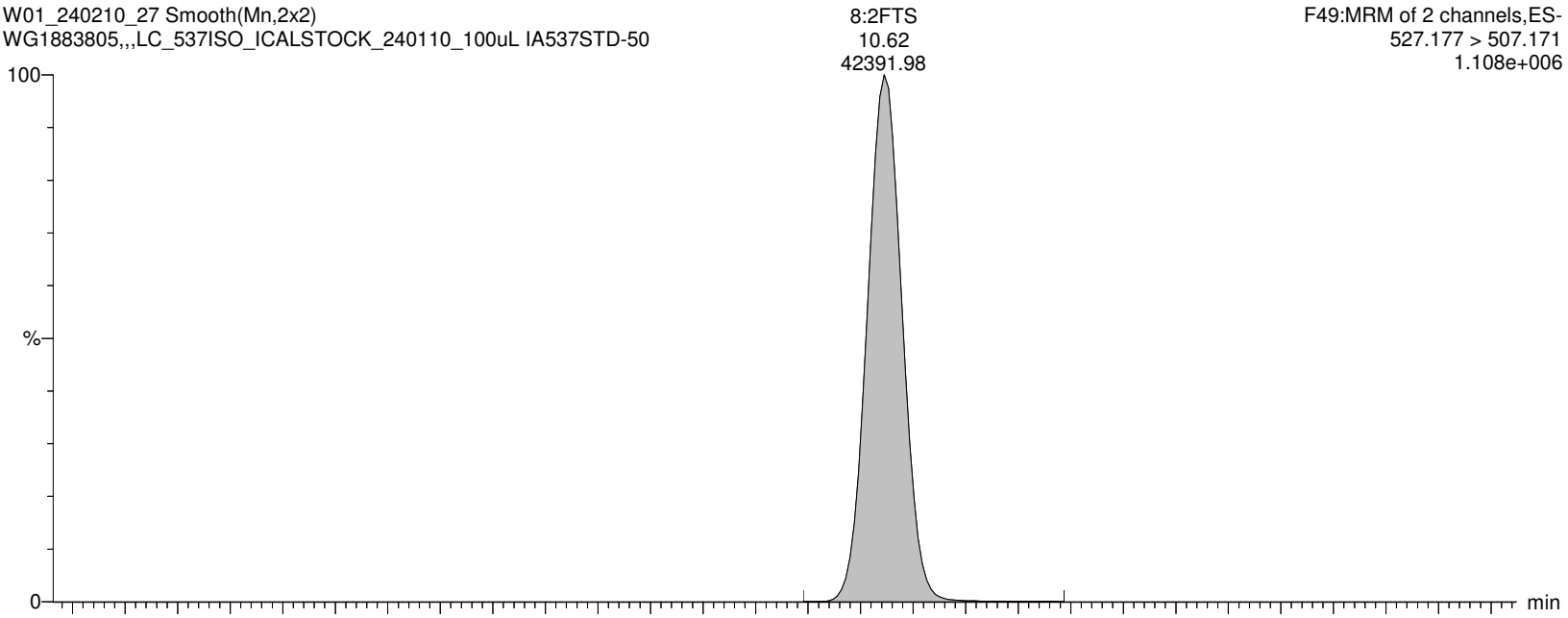
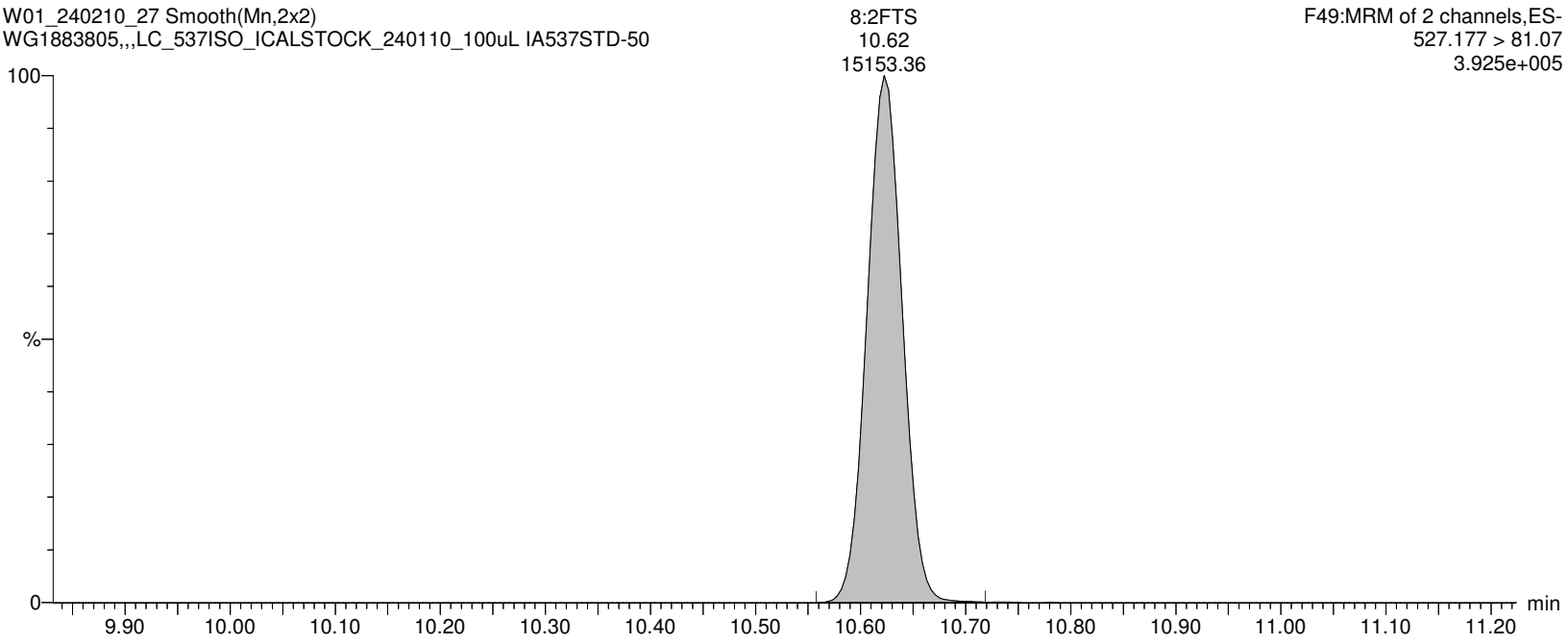
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

Name: W01_240210_27
ID: IA537STD-50
Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
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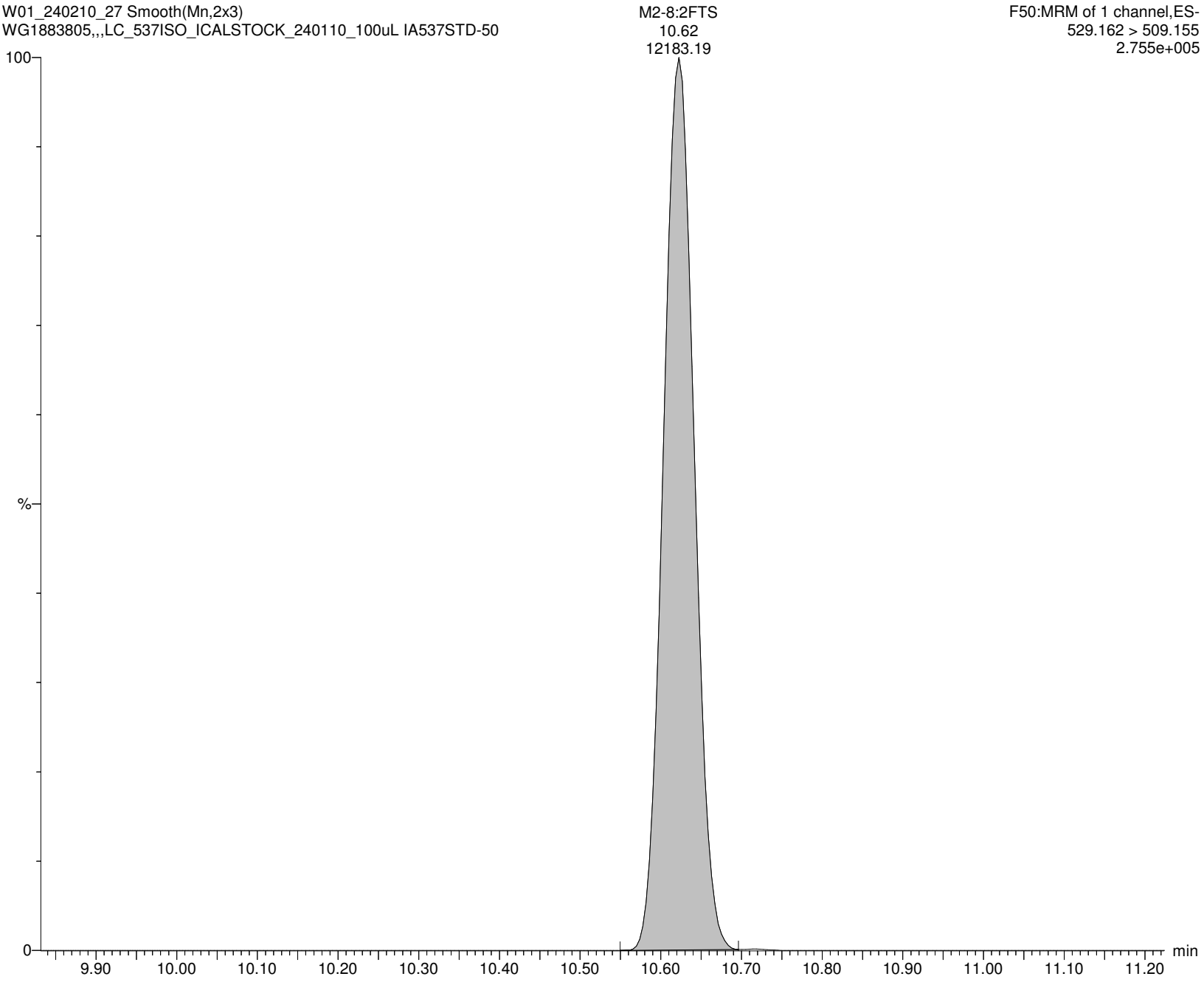
M2-8:2FTS



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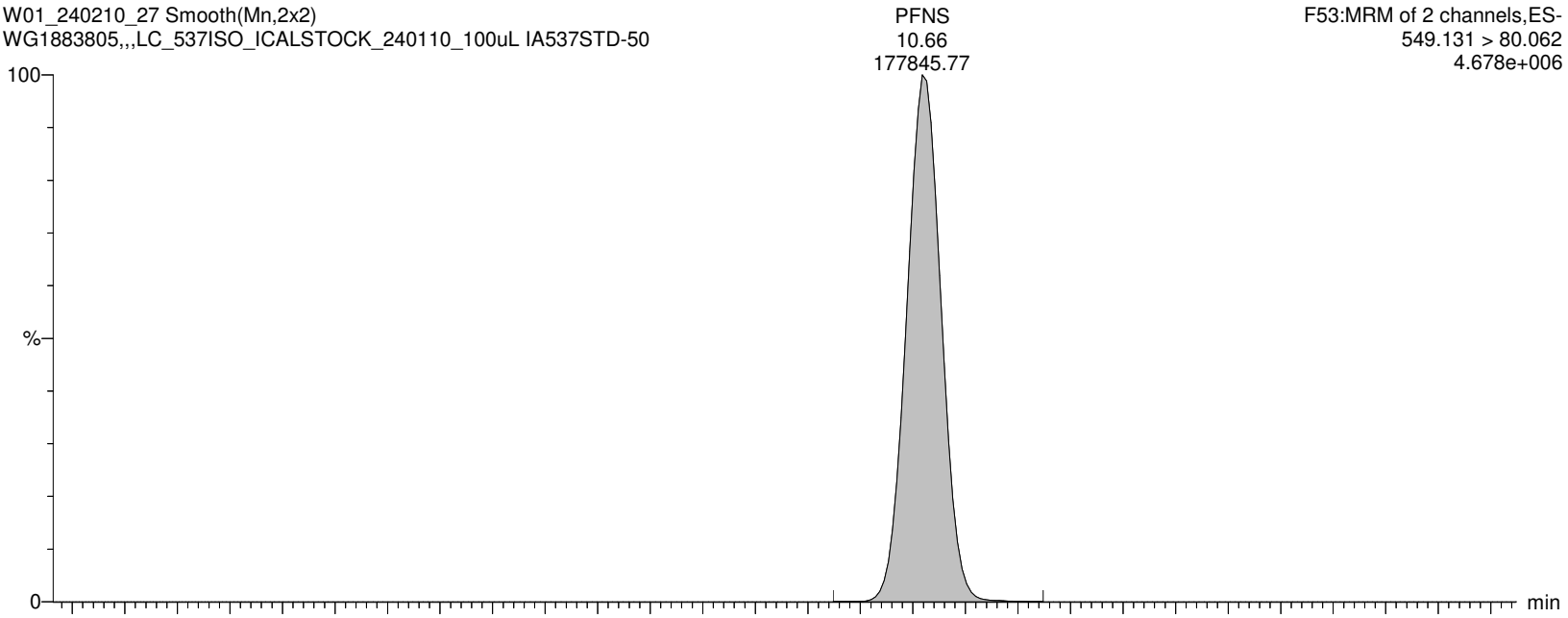

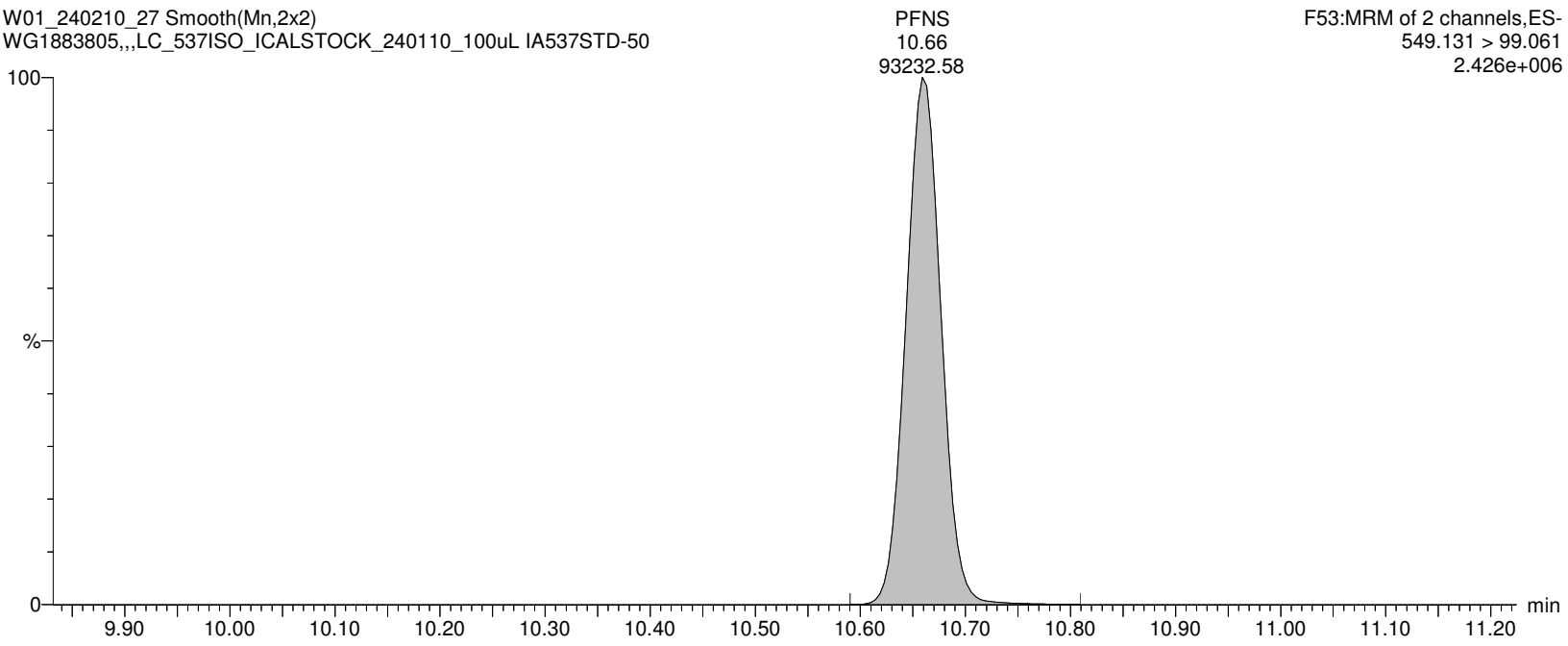

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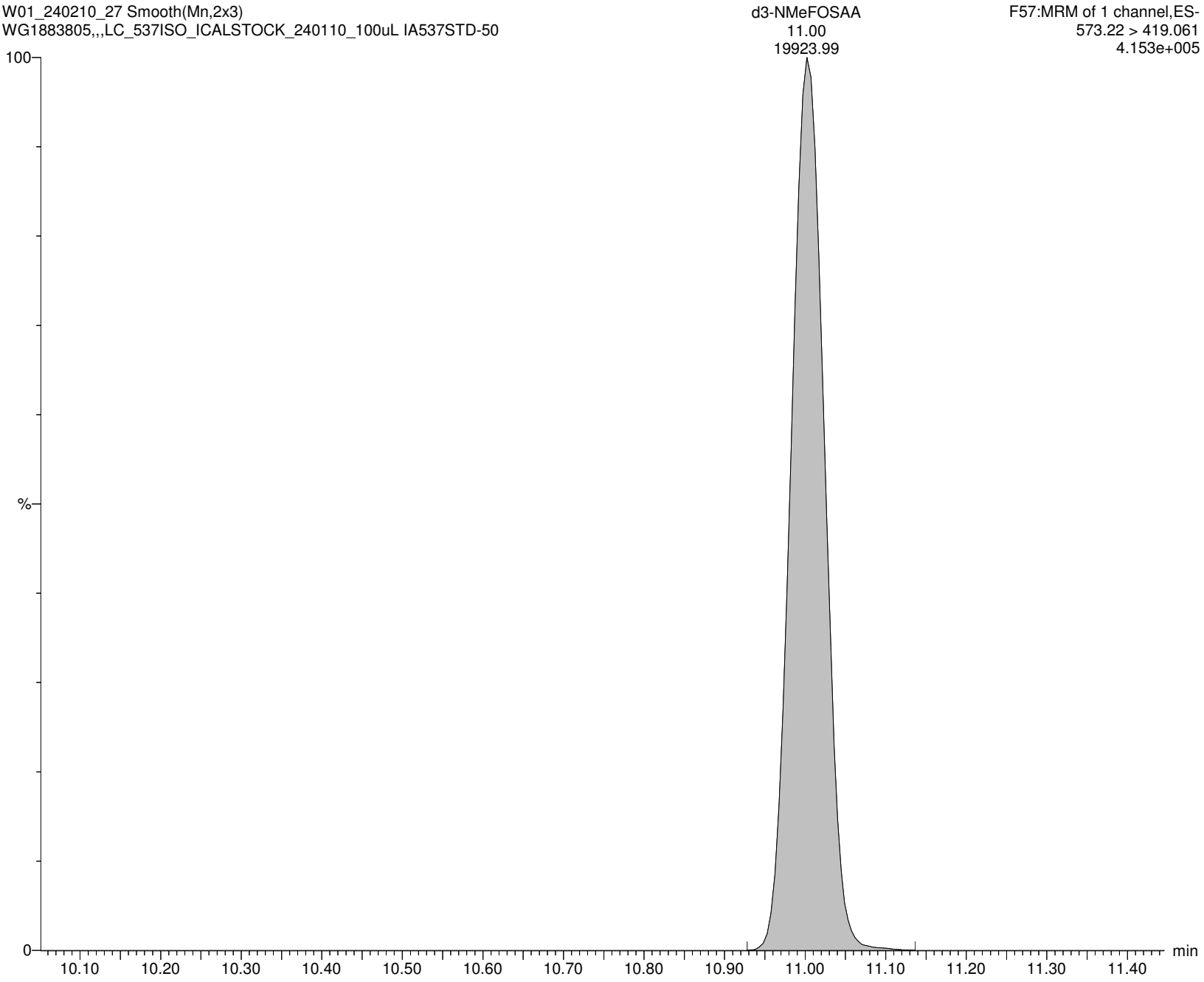
d3-NMeFOSAA



all concentration units in (ng/mL)

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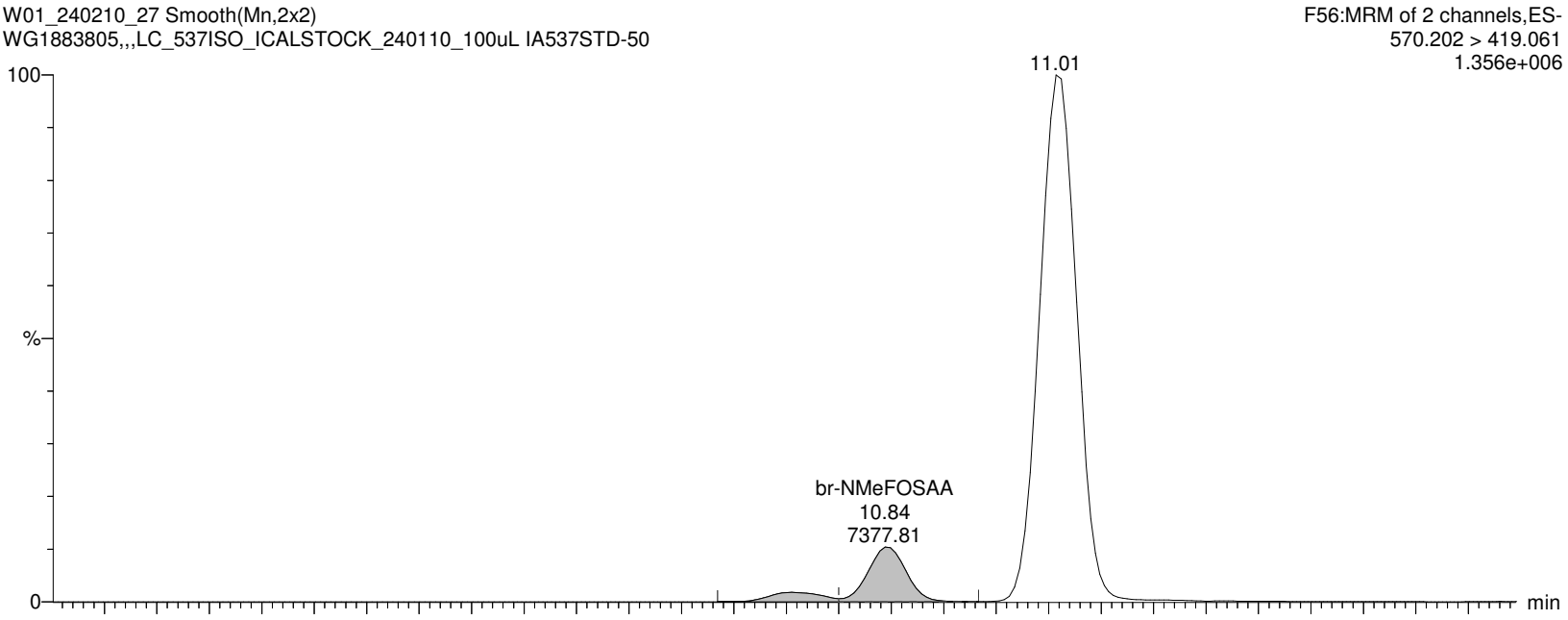
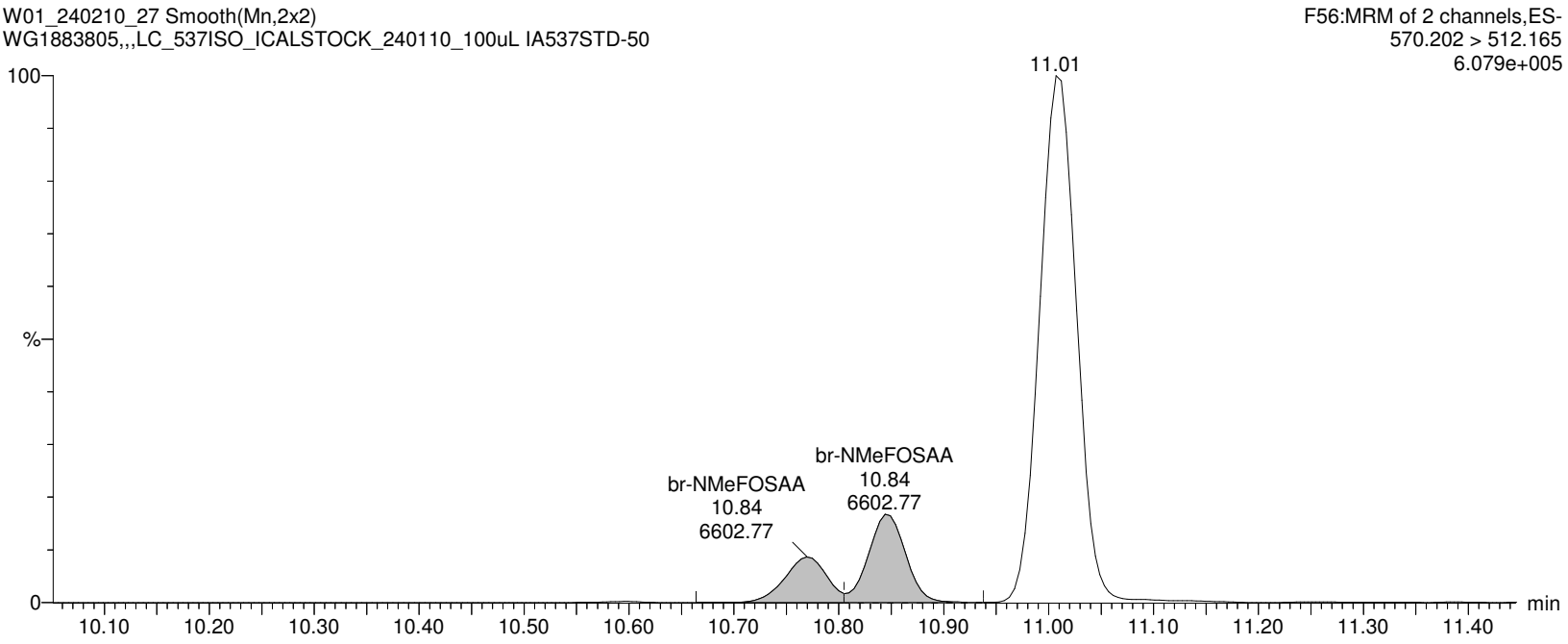
br-NMeFOSAA





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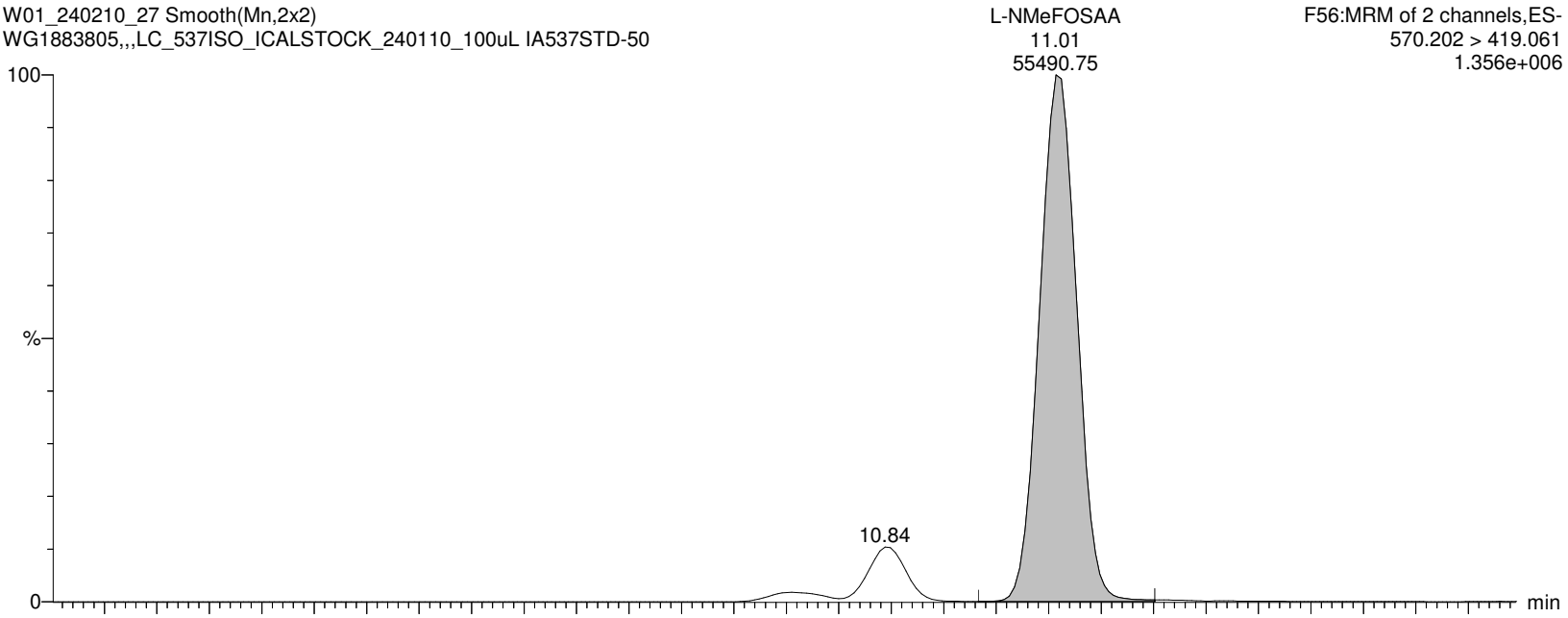
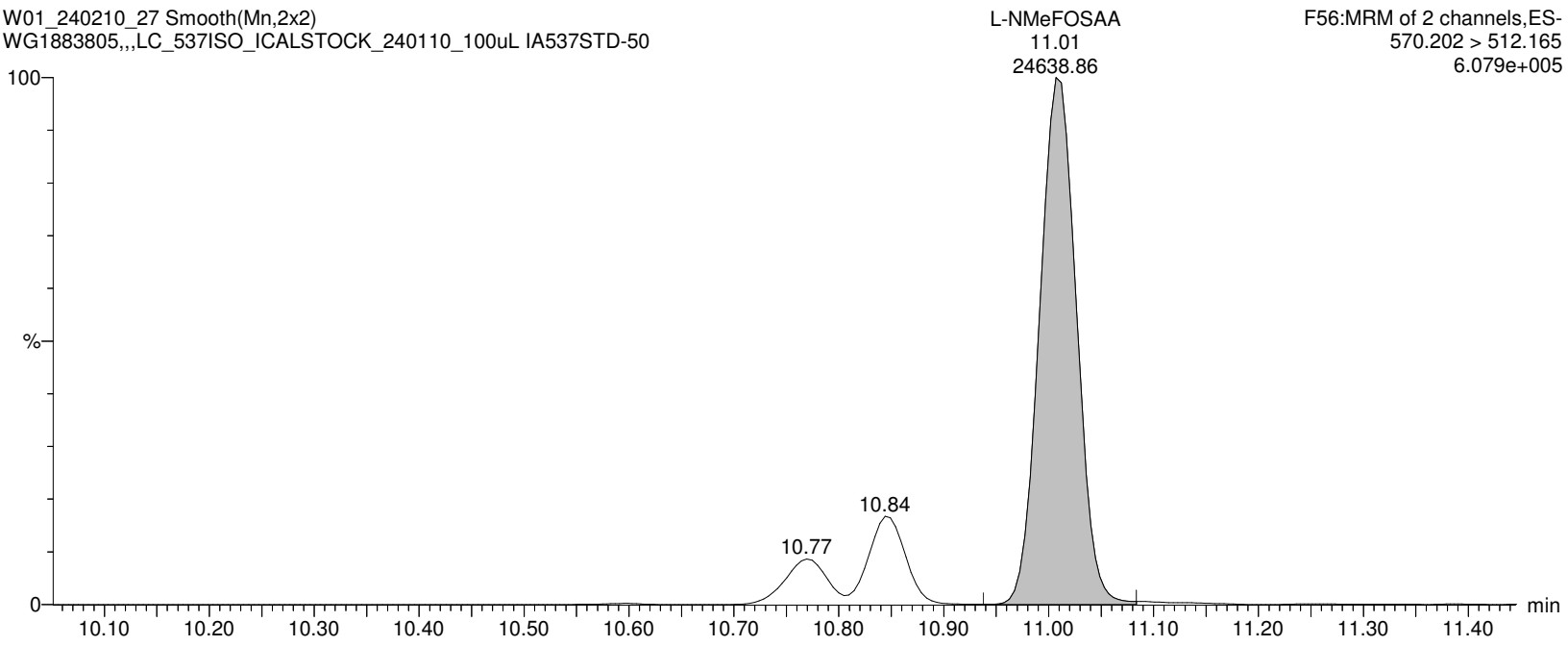
L-NMeFOSAA





all concentration units in (ng/mL)

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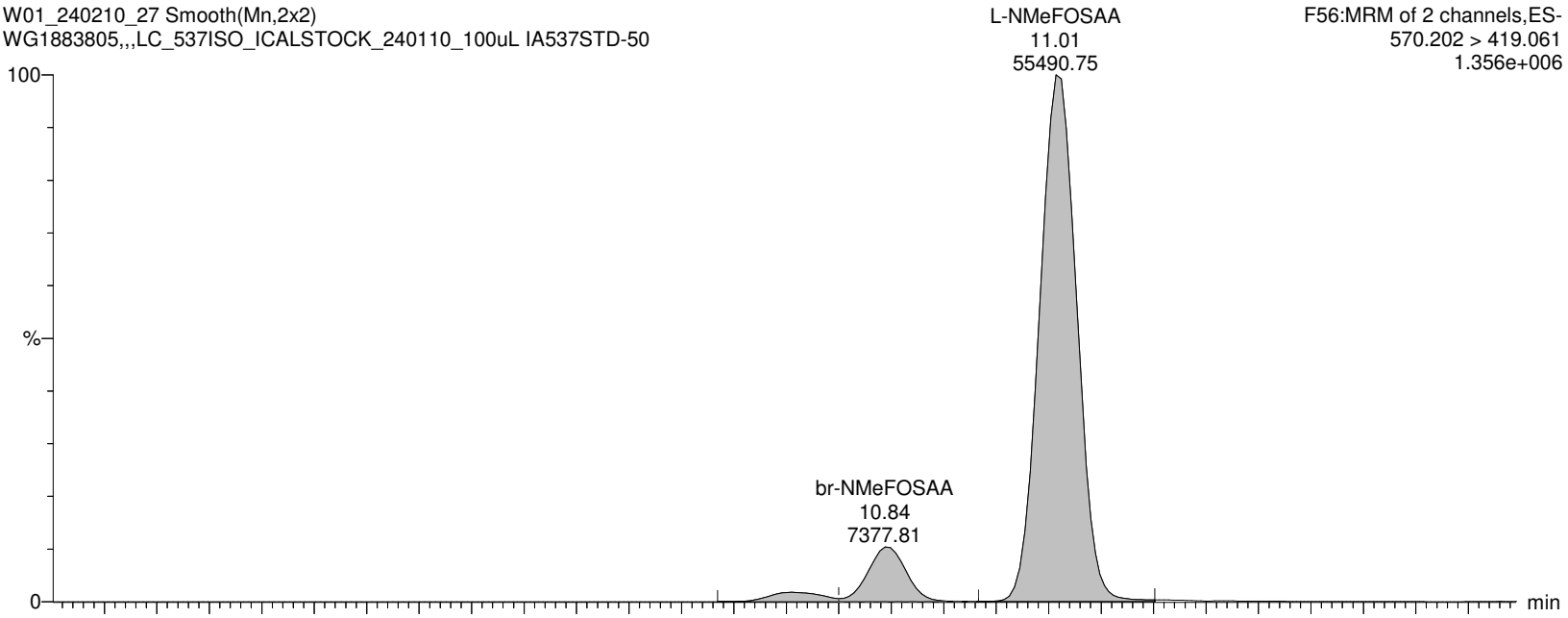

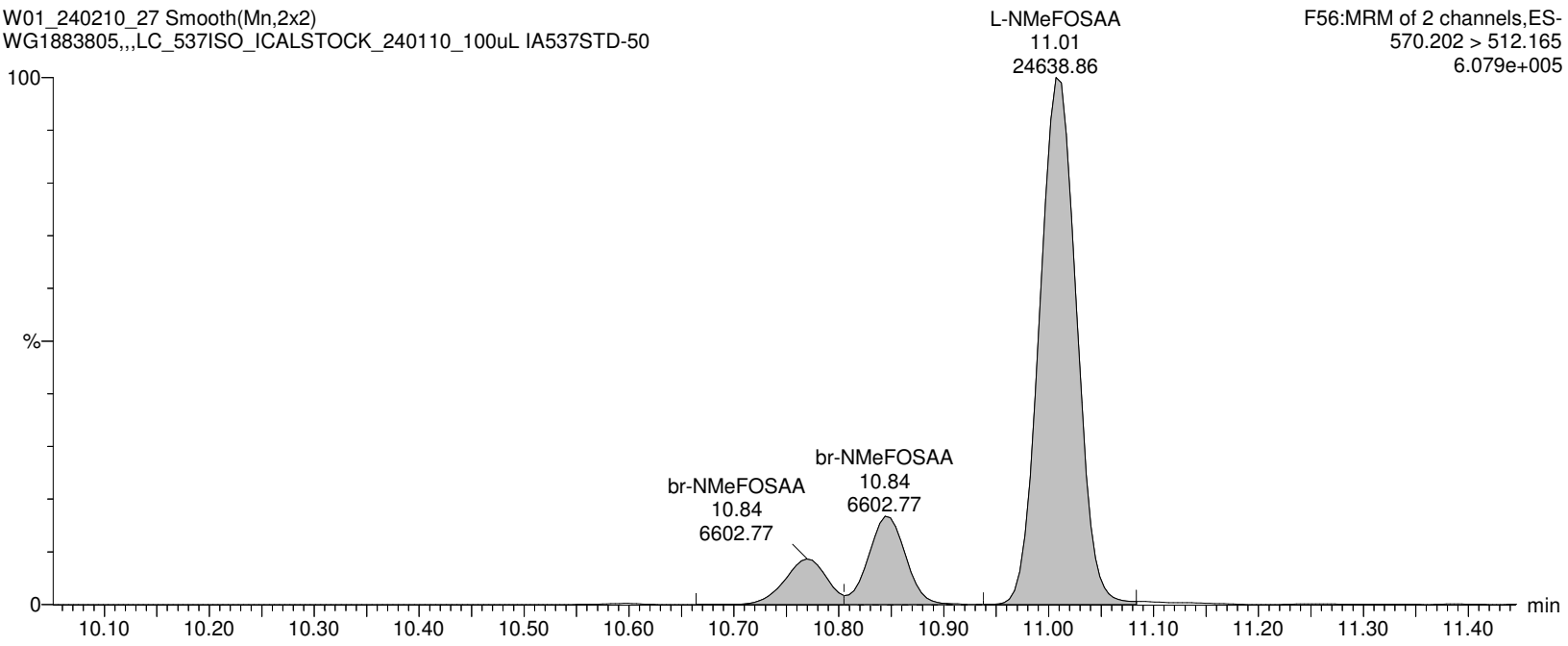

all concentration units in (ng/mL)

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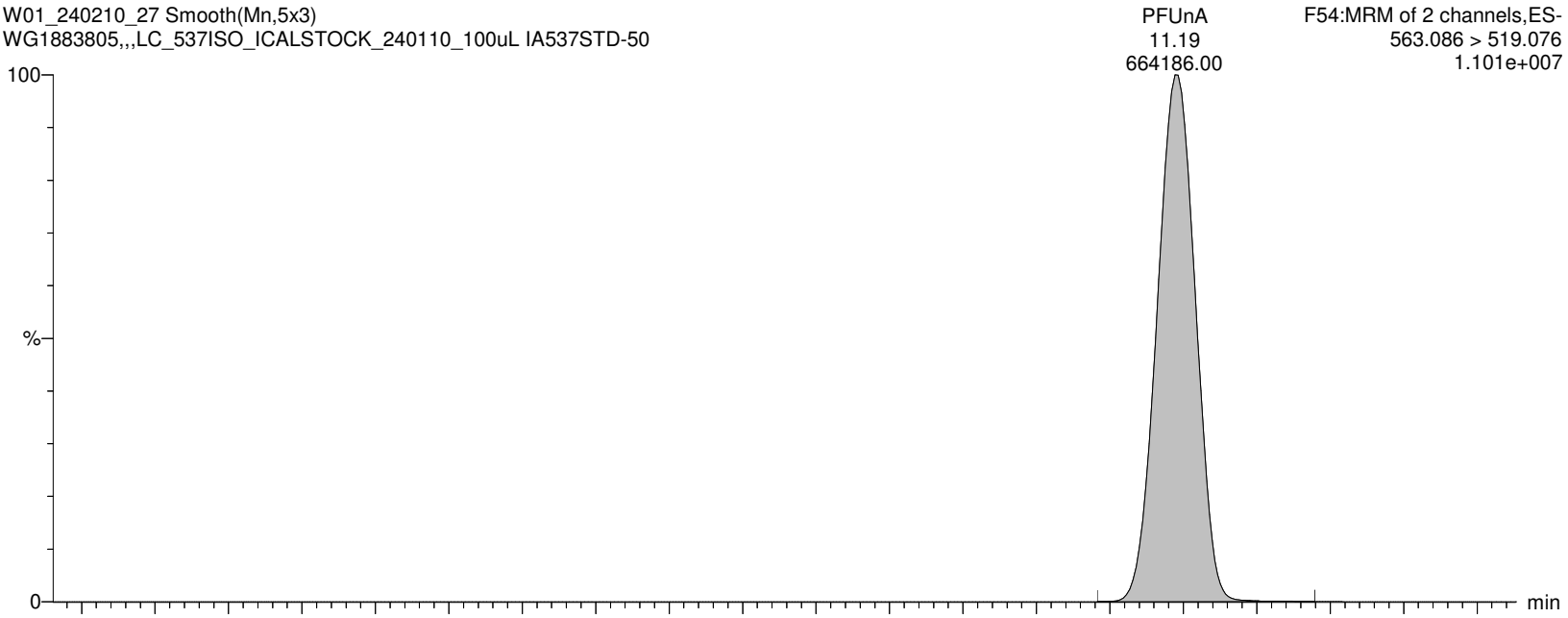
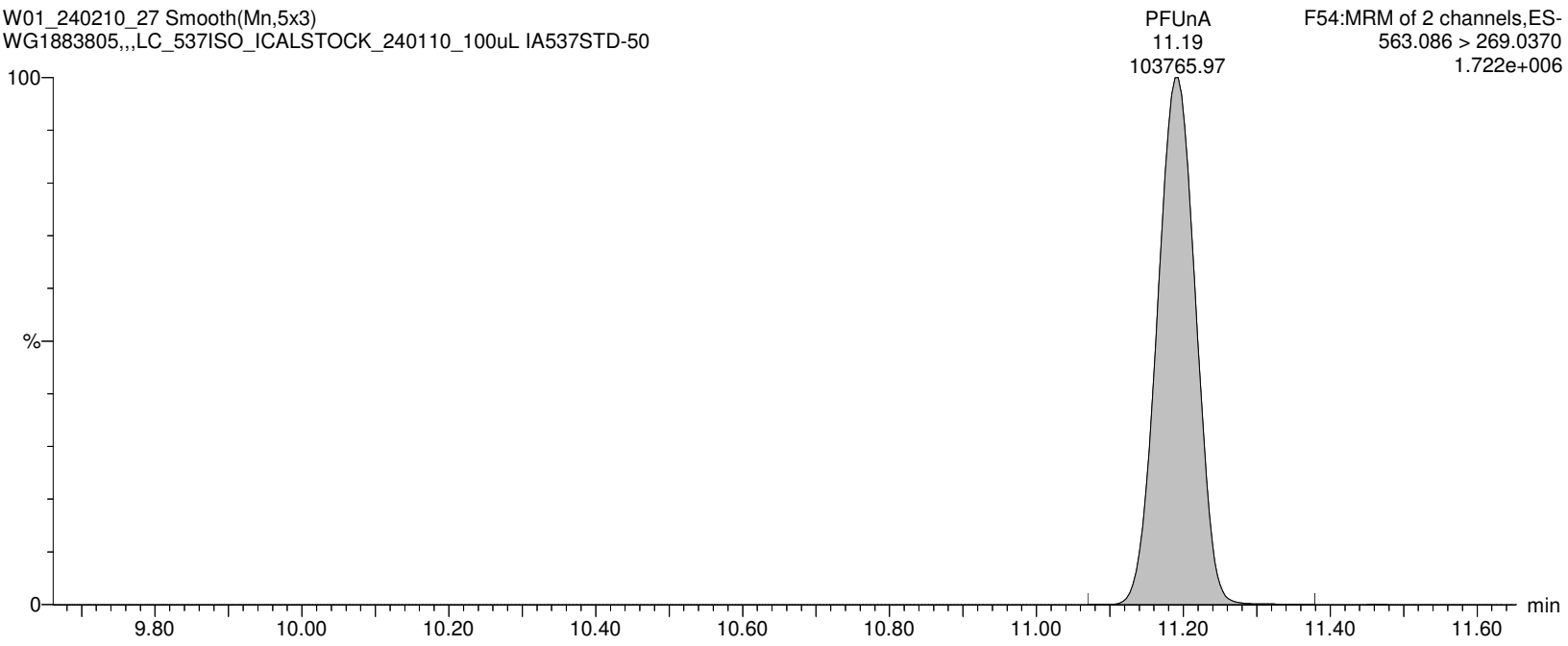
PFUnA





all concentration units in (ng/mL)

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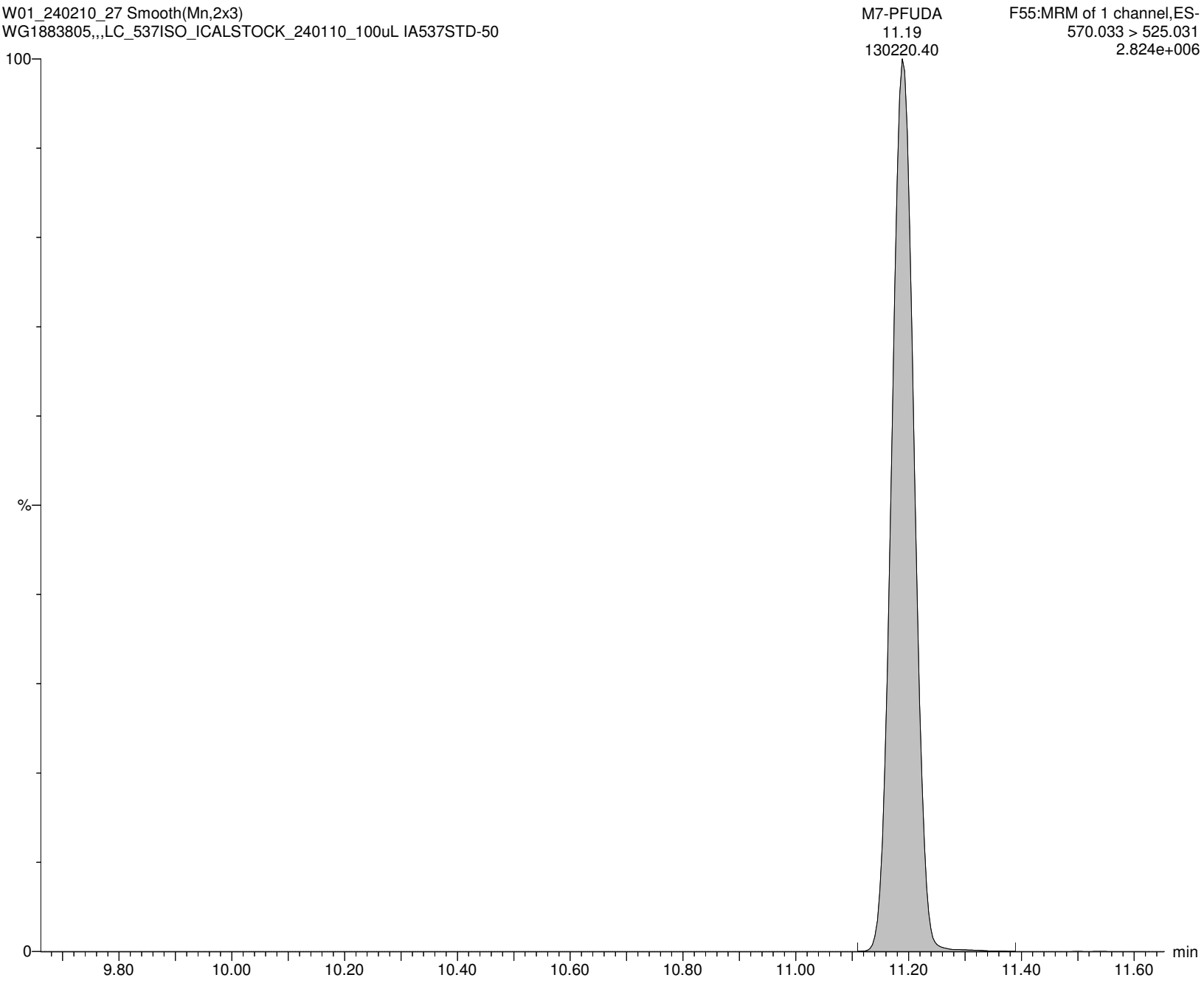
M7-PFUDA



all concentration units in (ng/mL)

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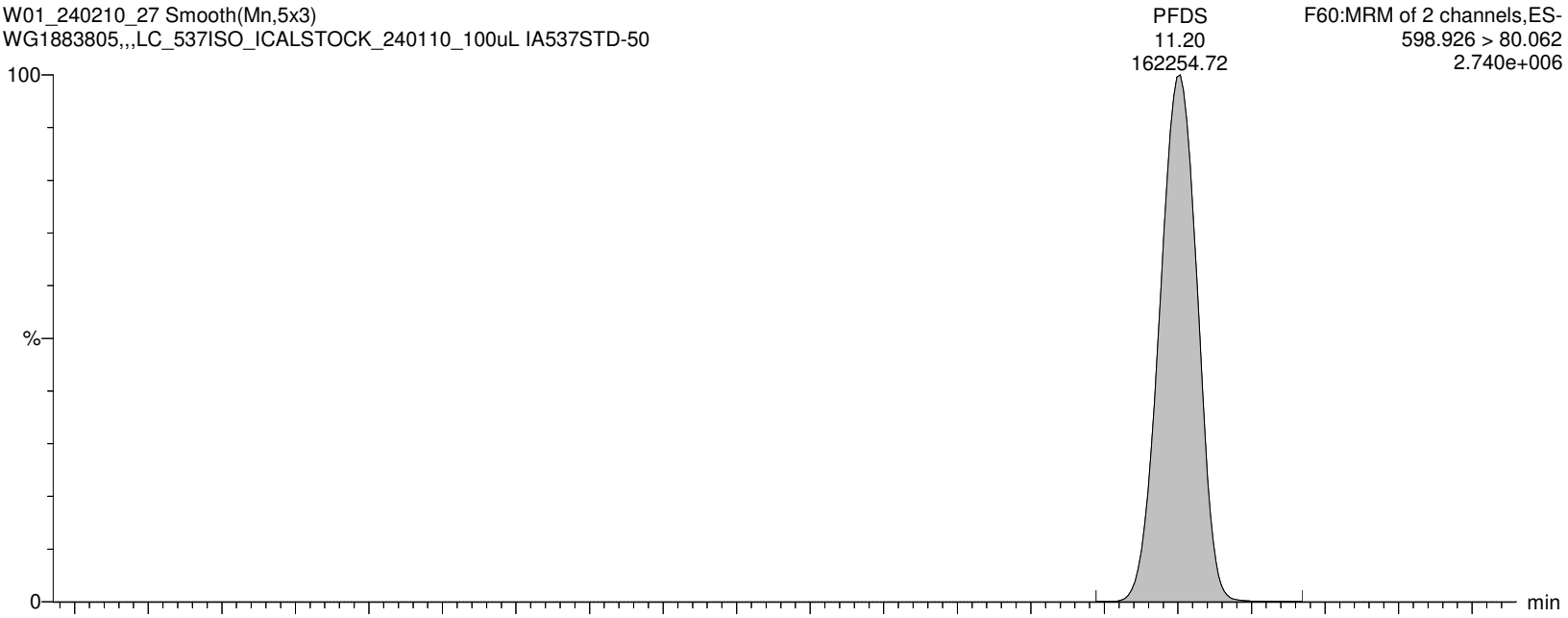

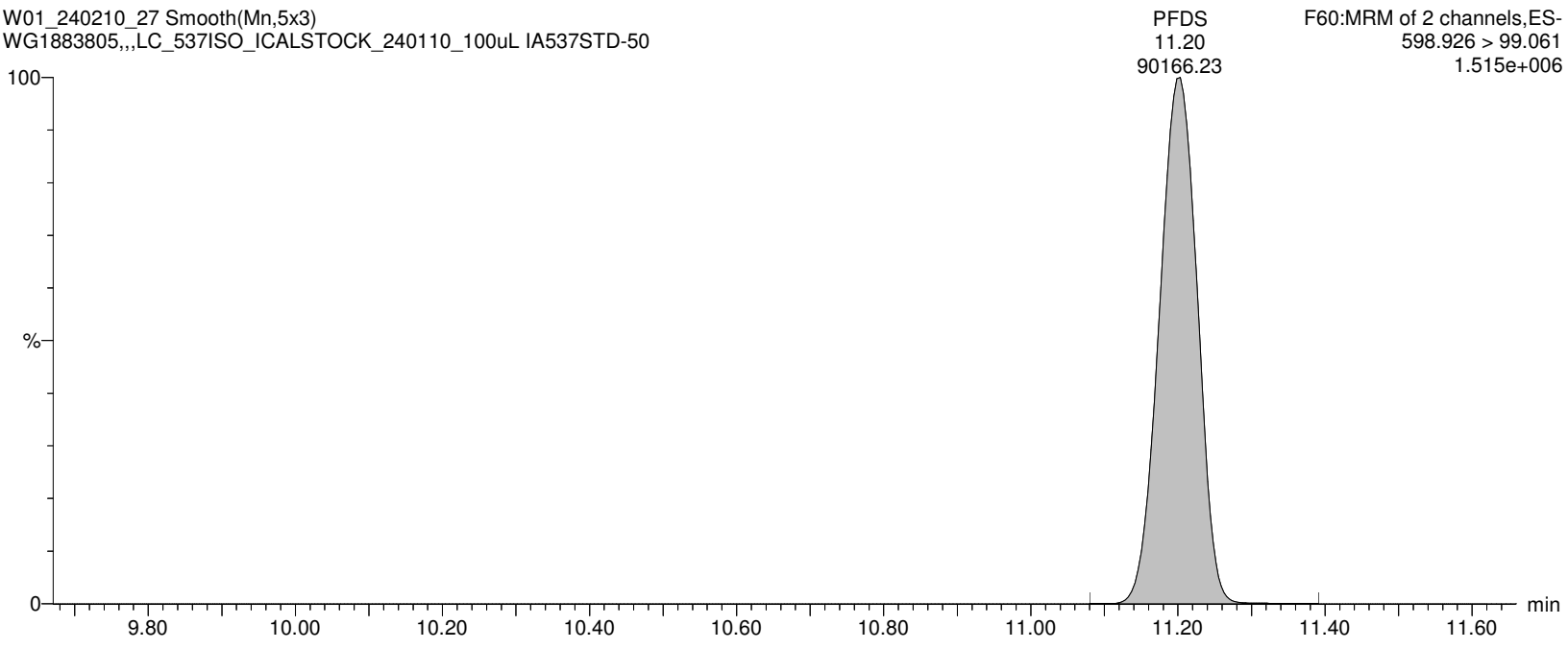

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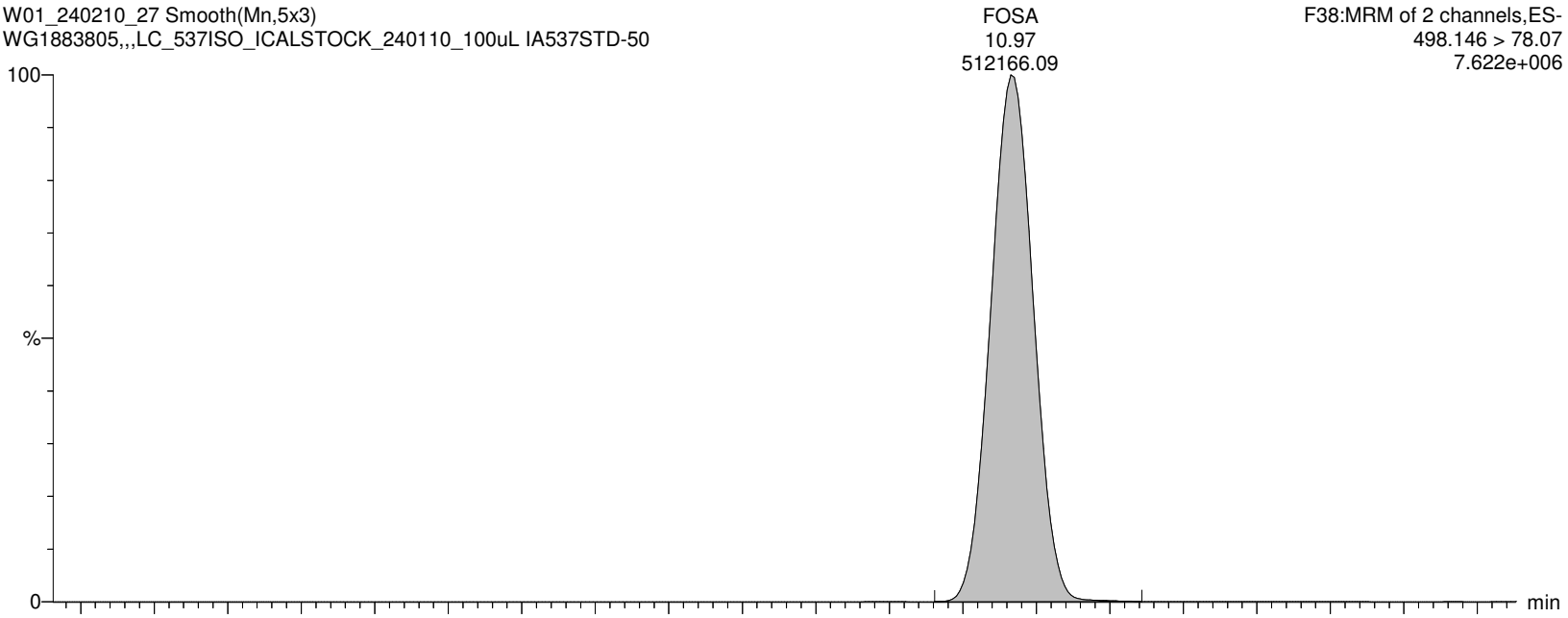

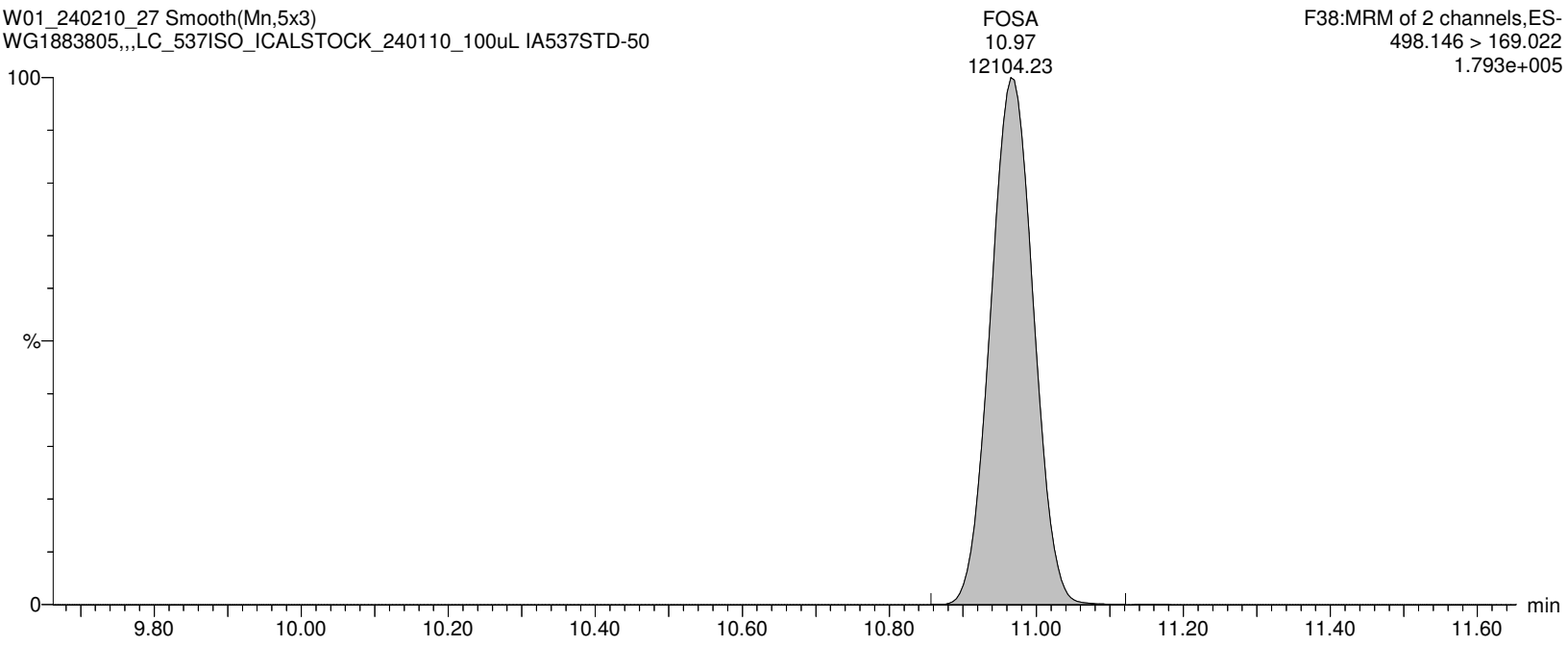

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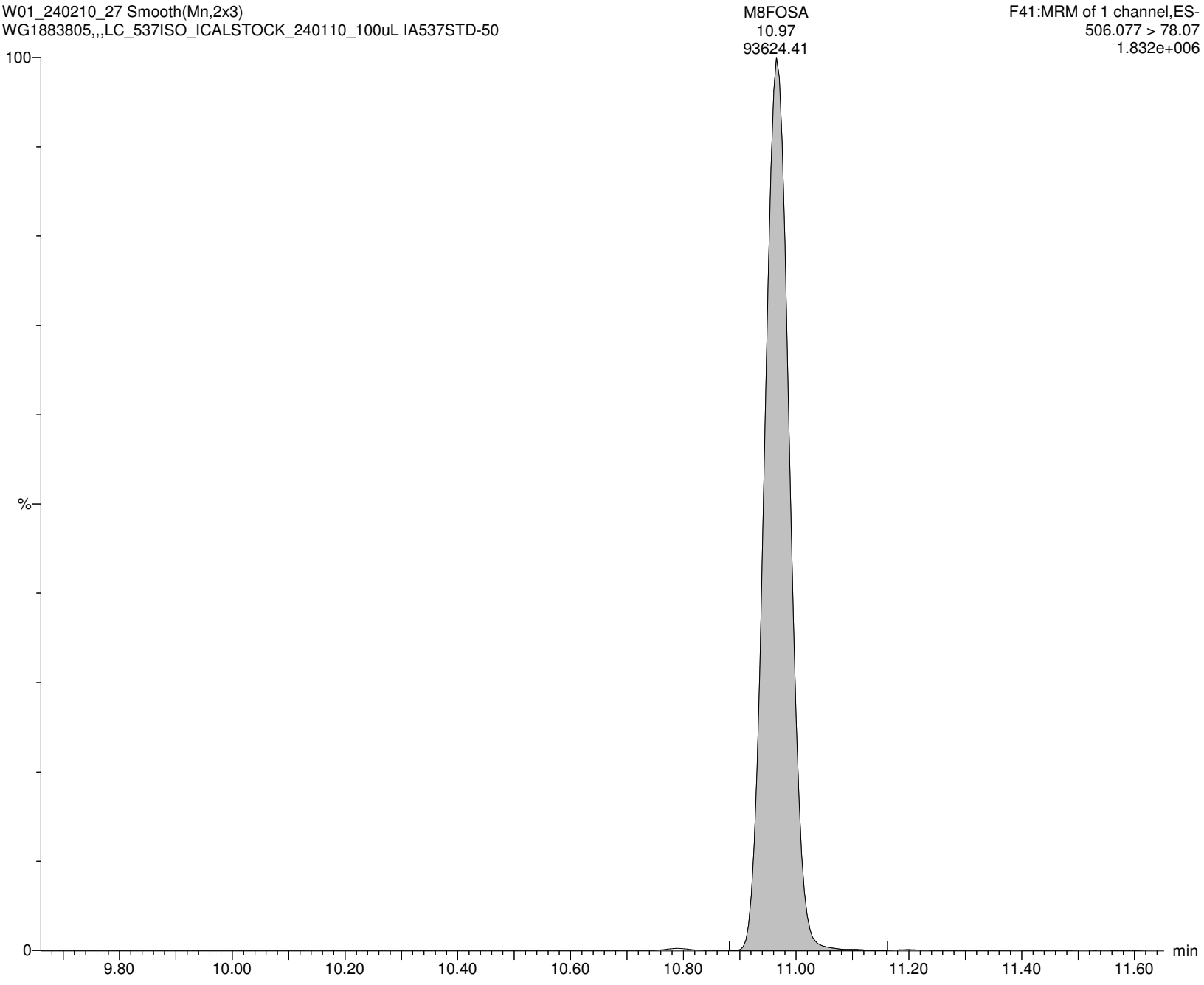
M8FOSA



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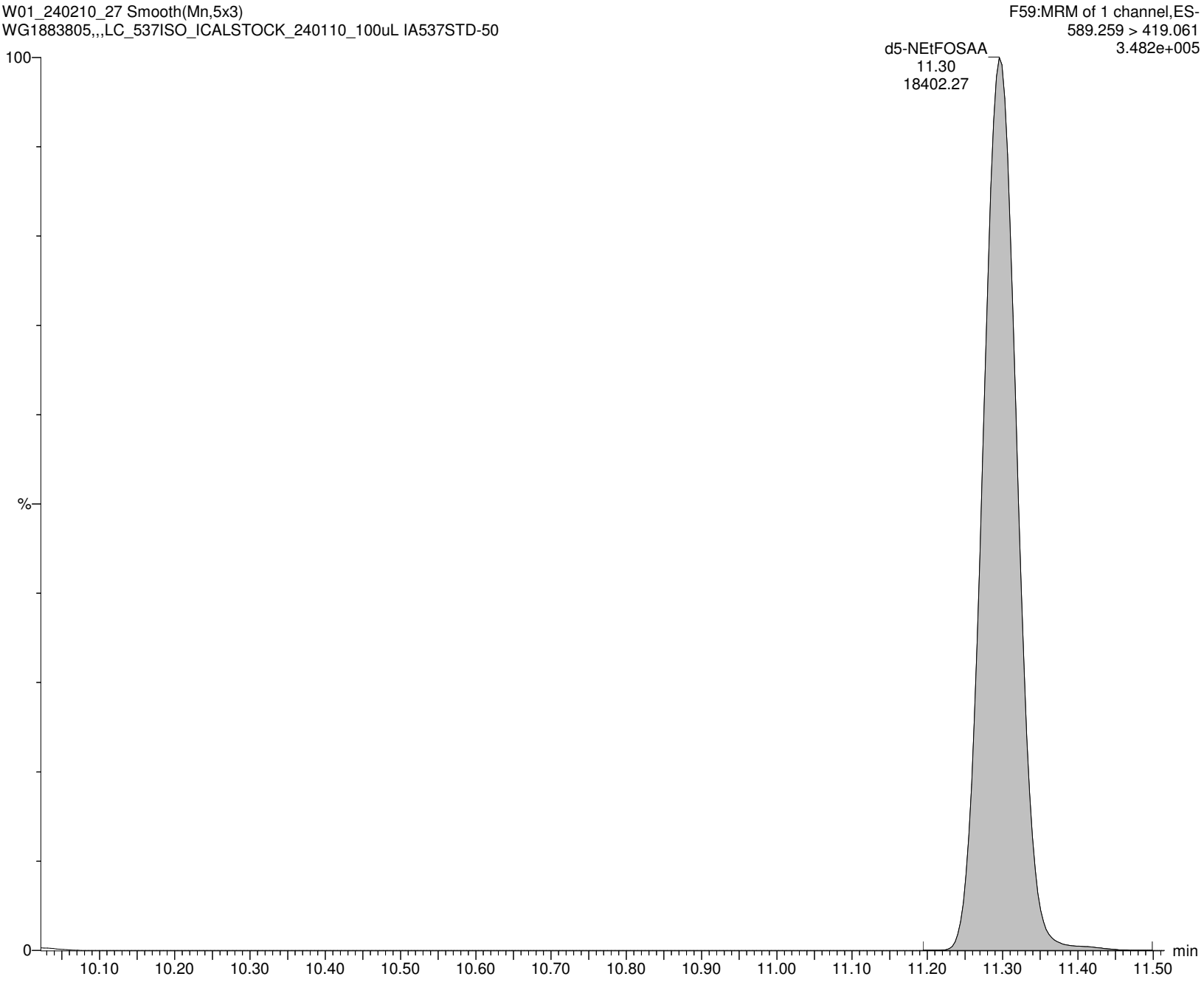

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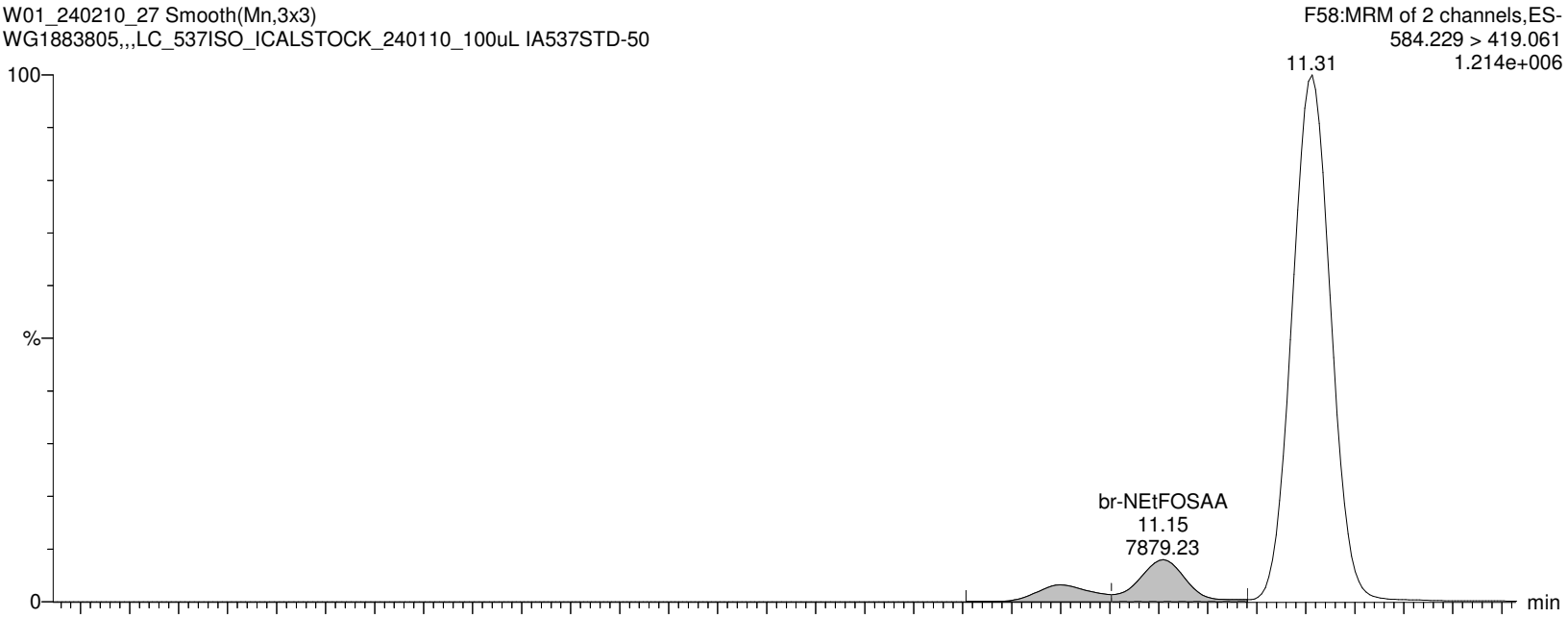
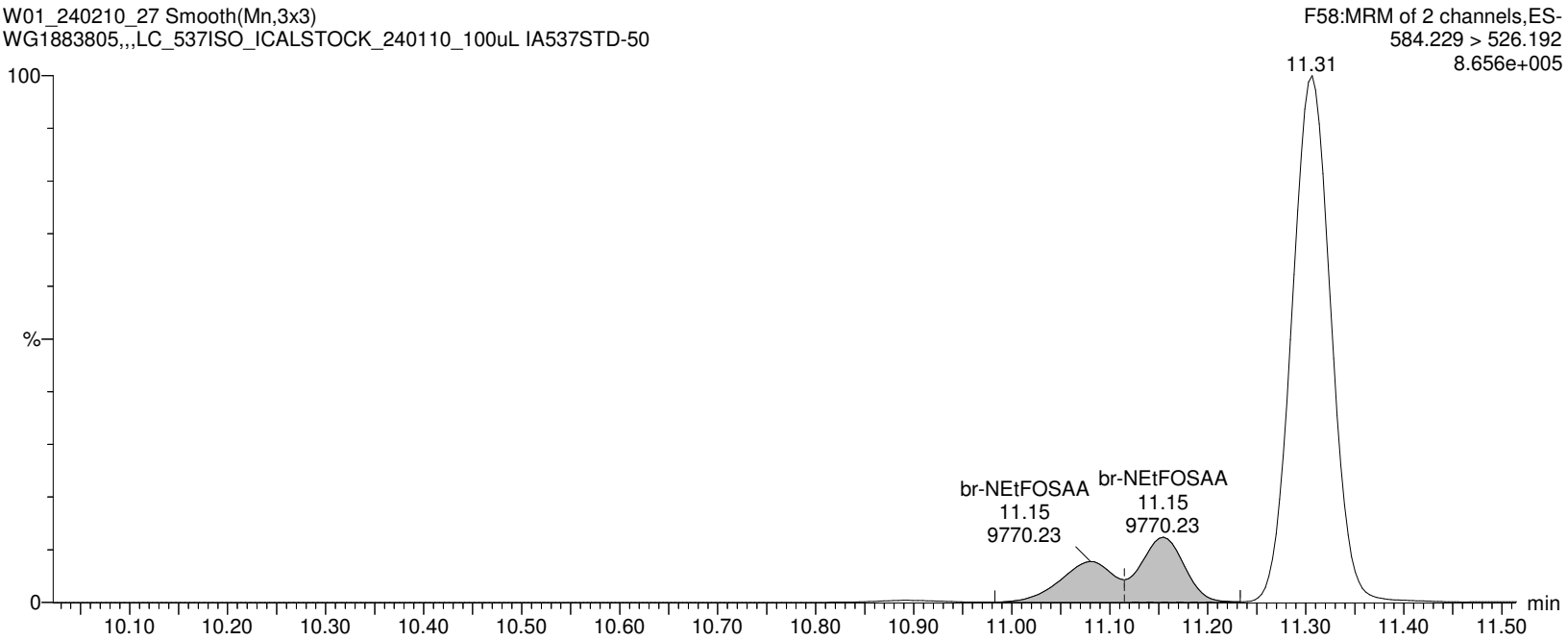
br-NEtFOSAA





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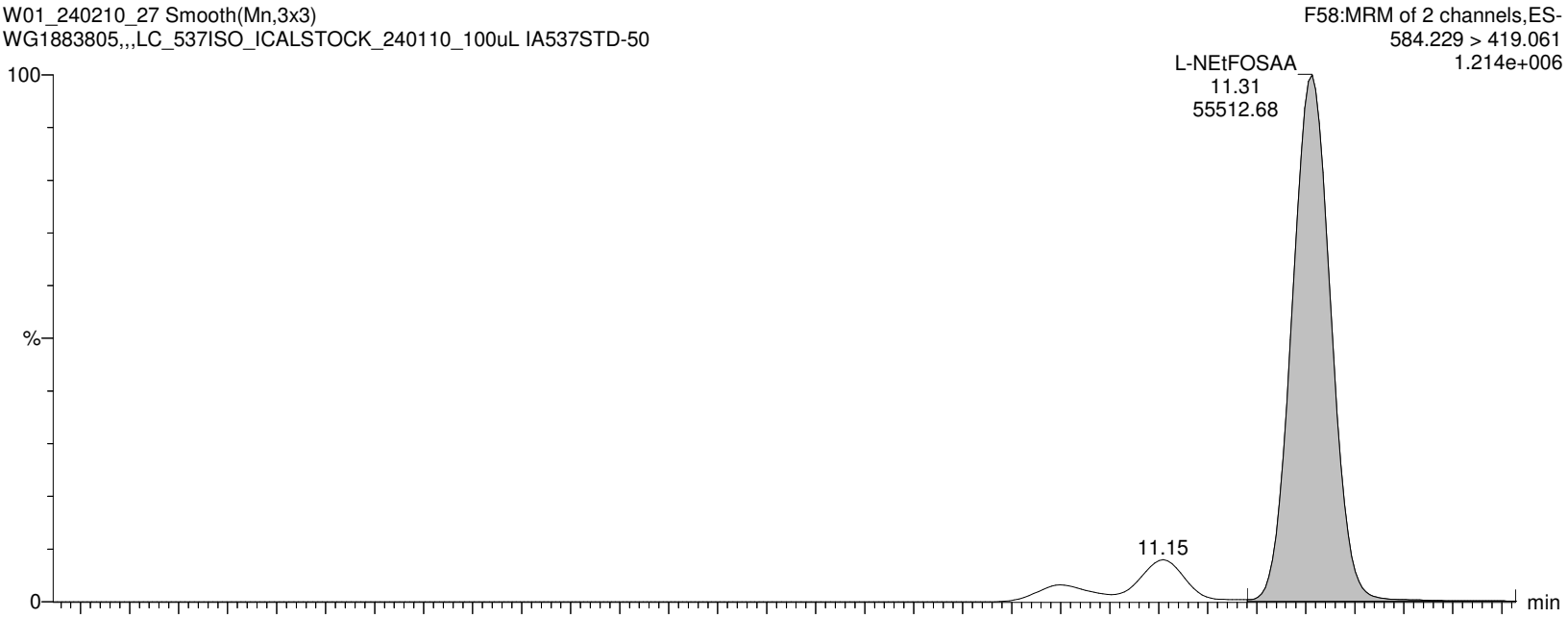

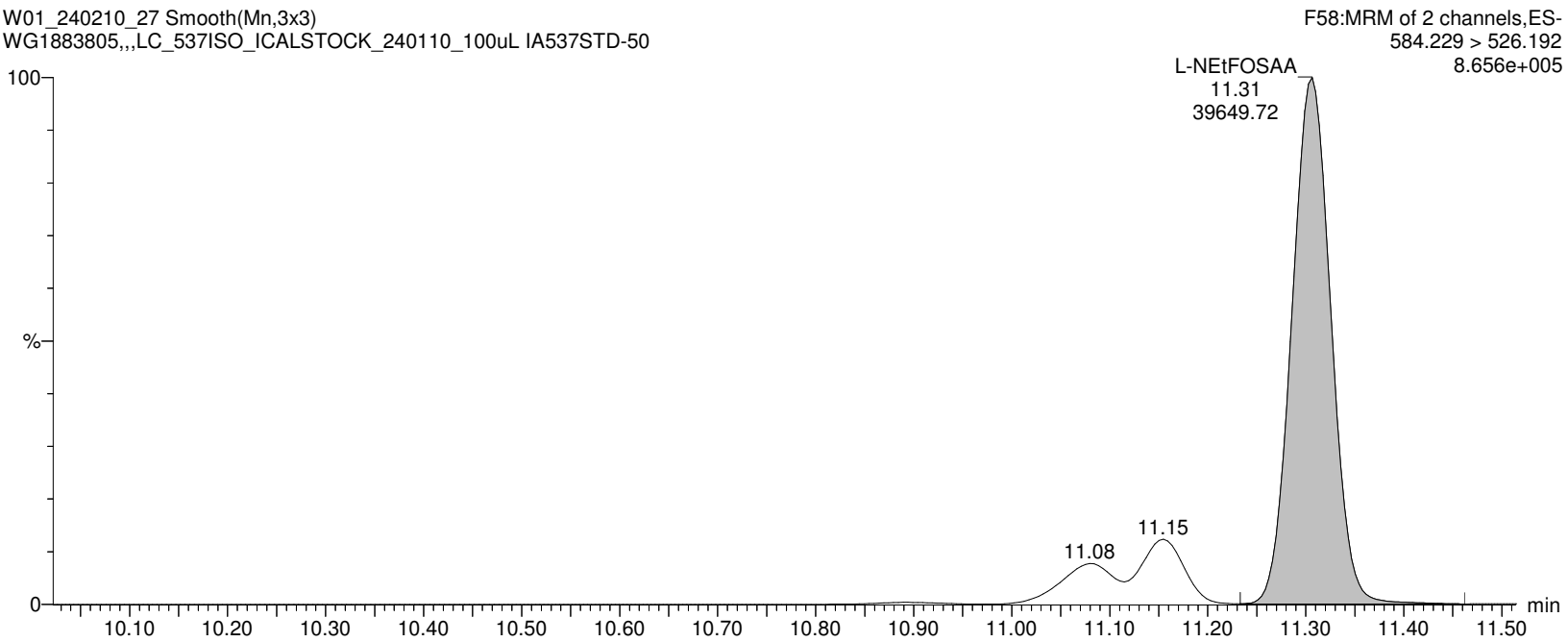

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

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Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
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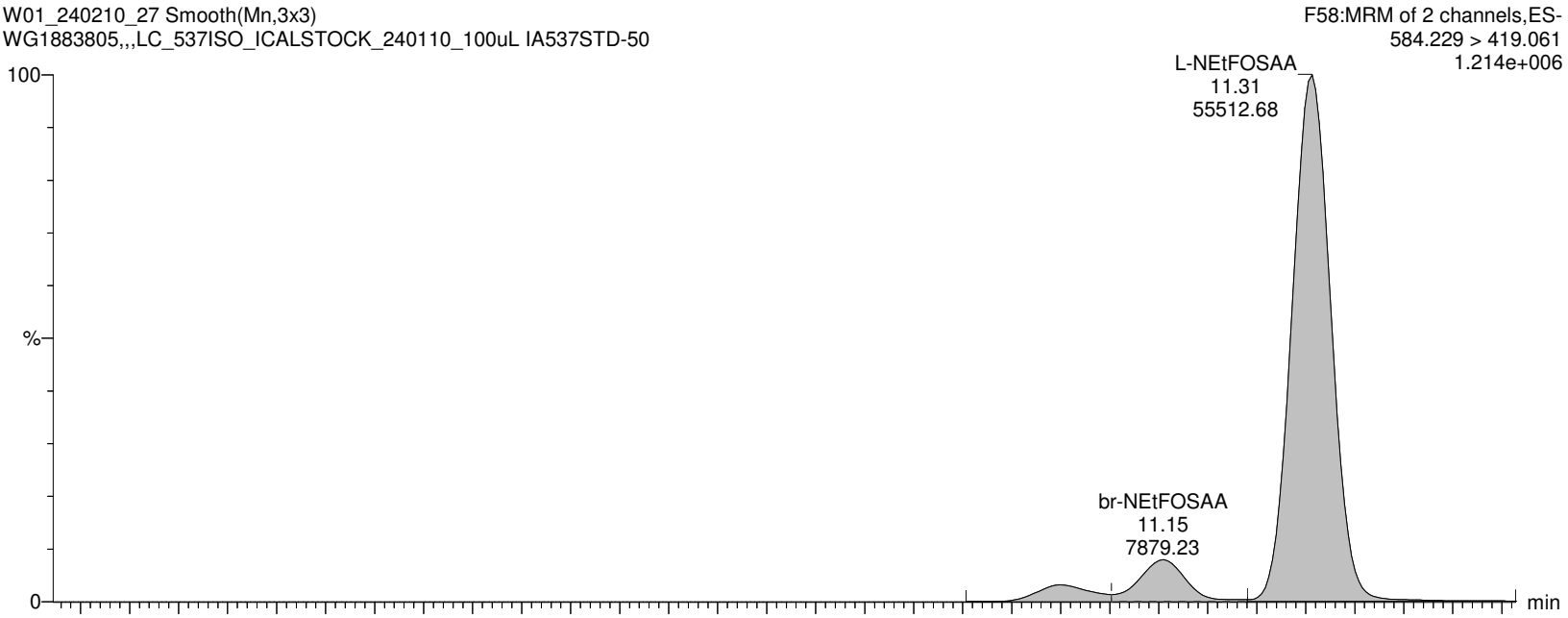

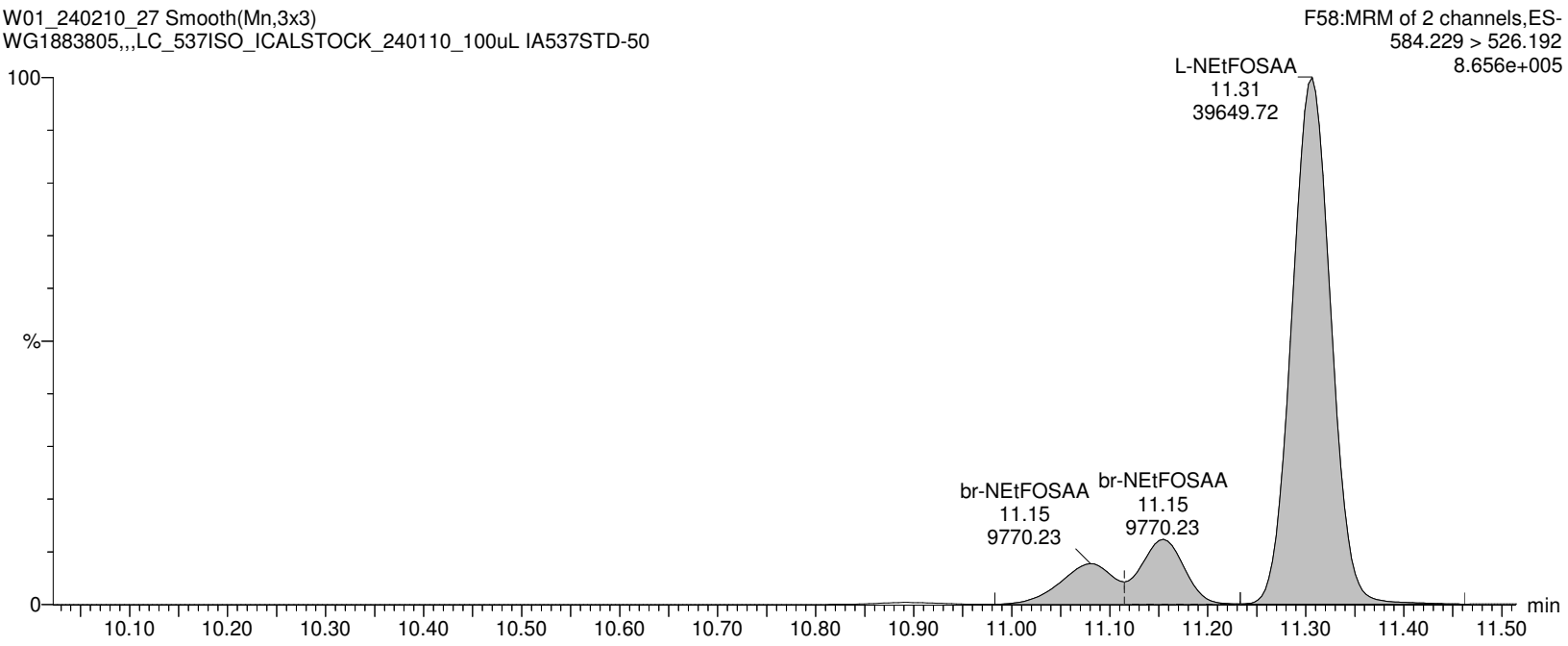

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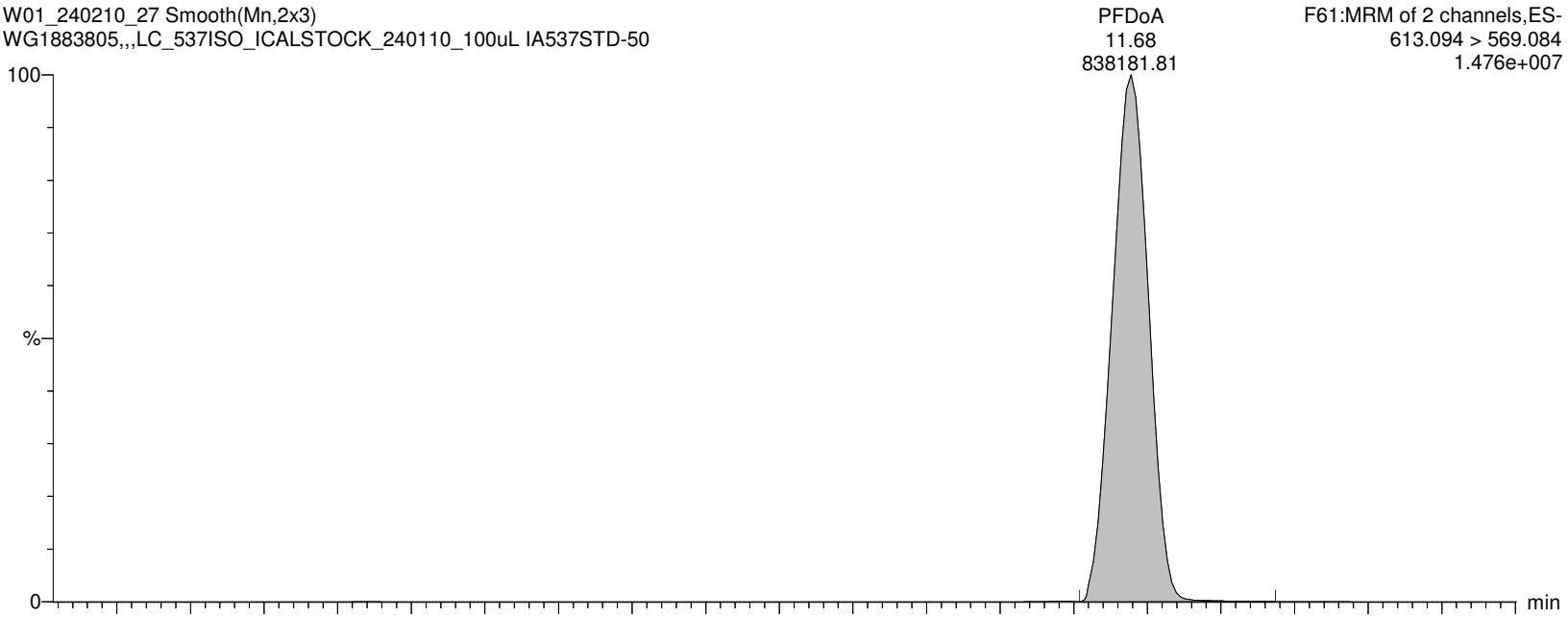

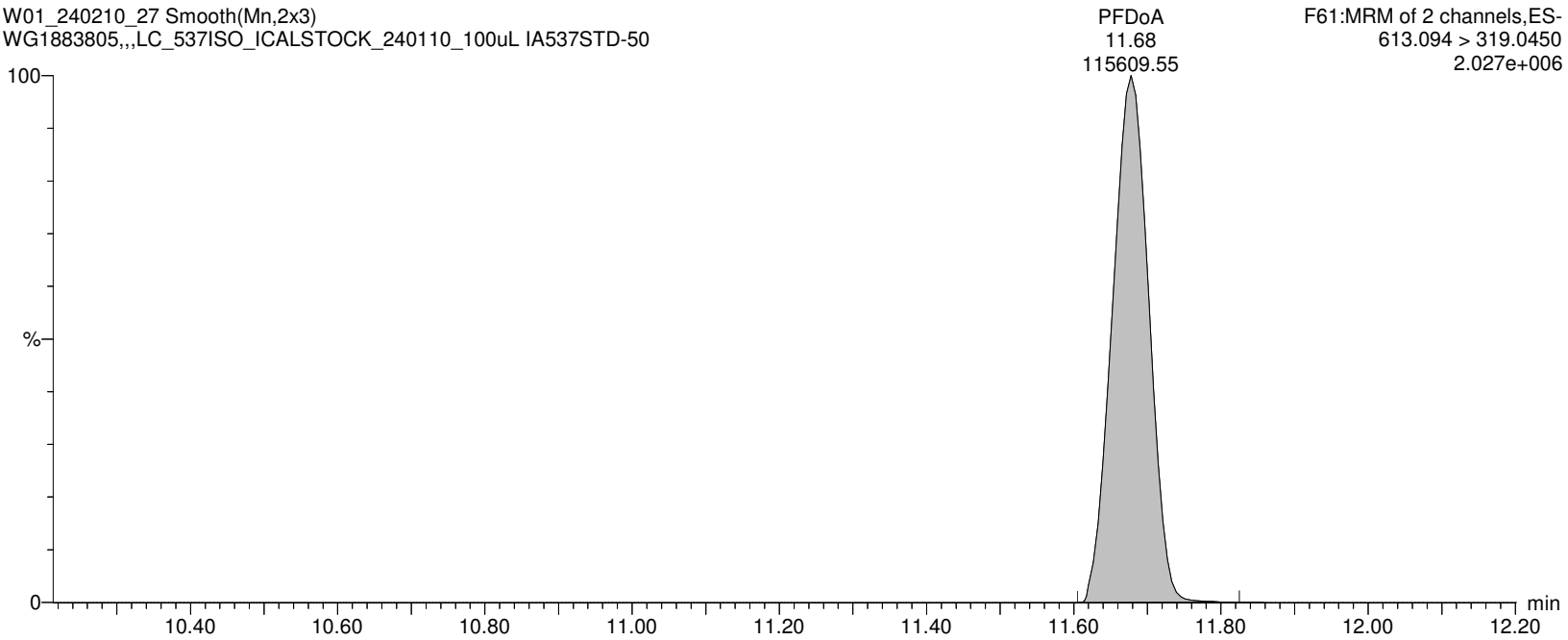

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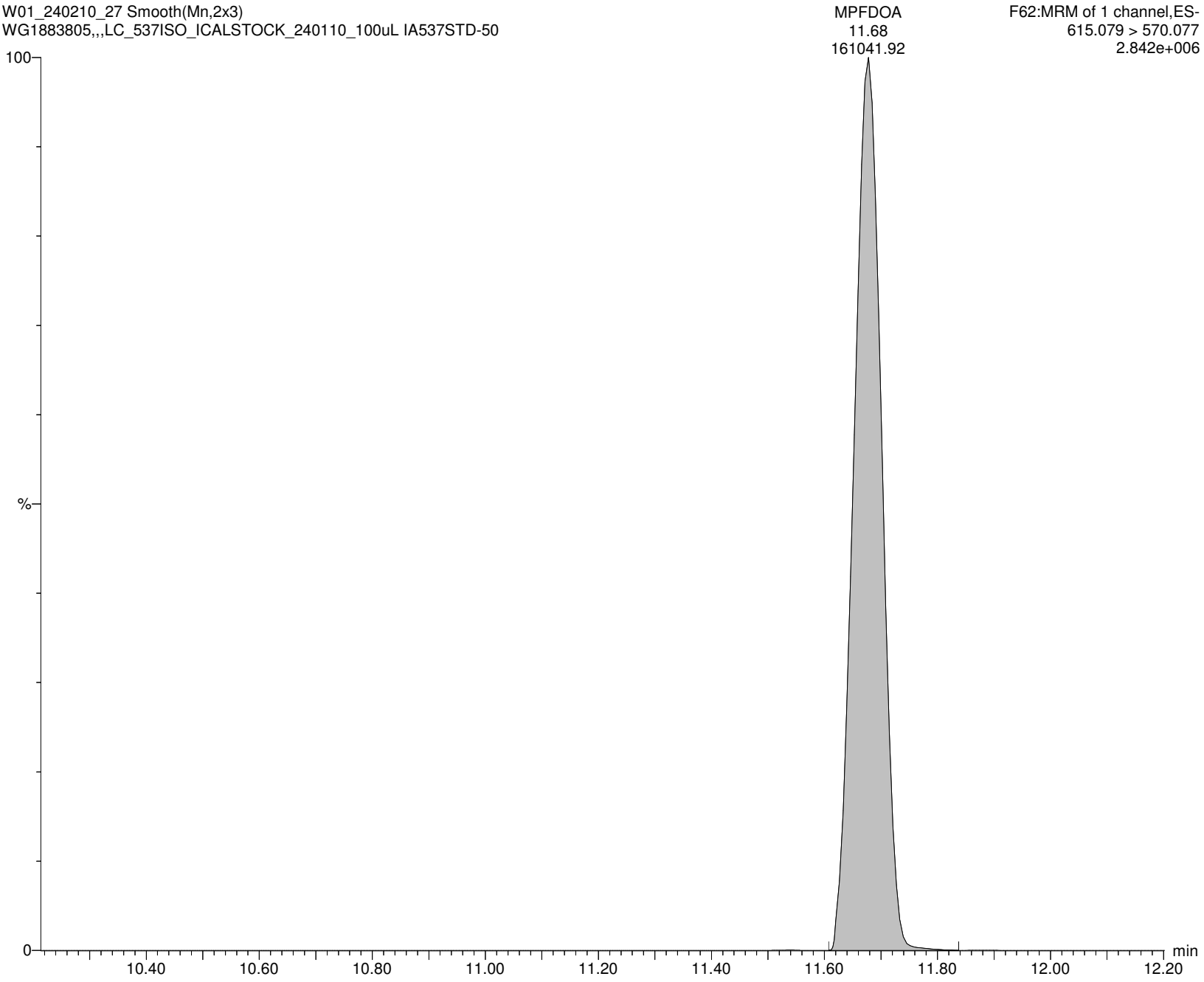

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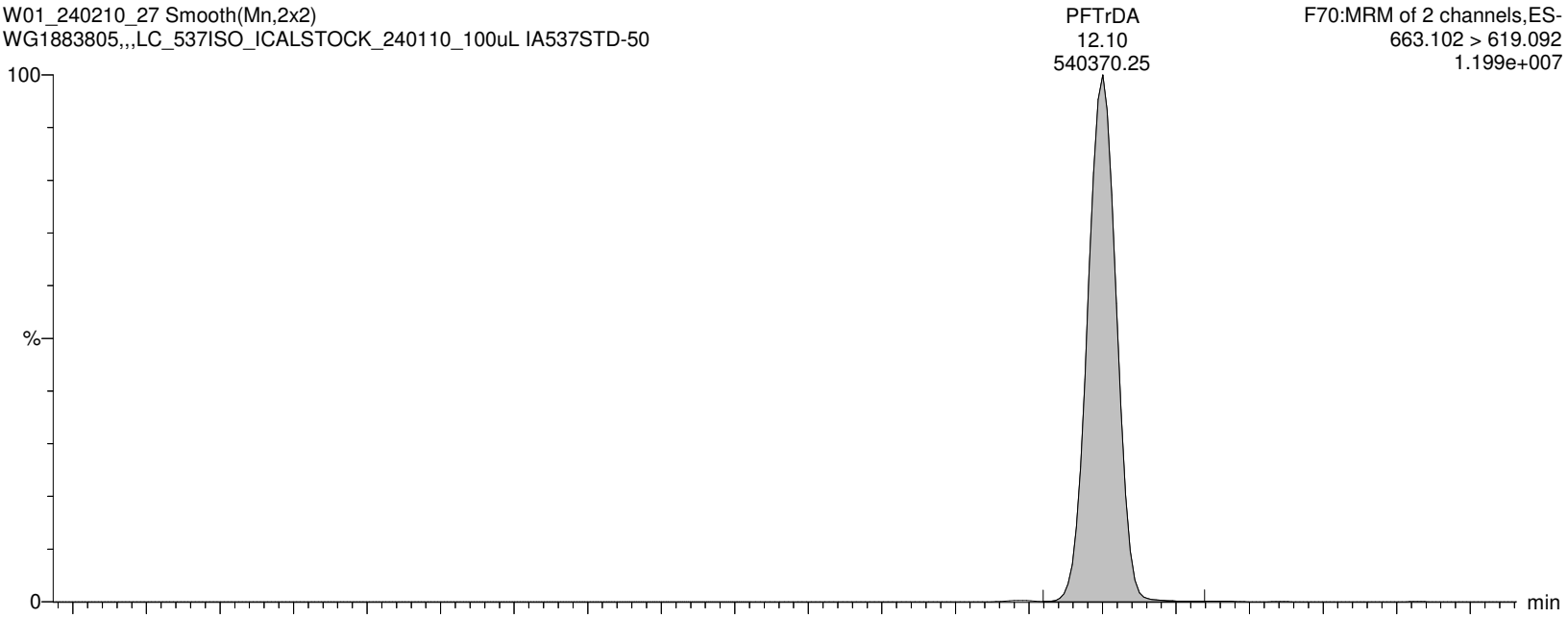

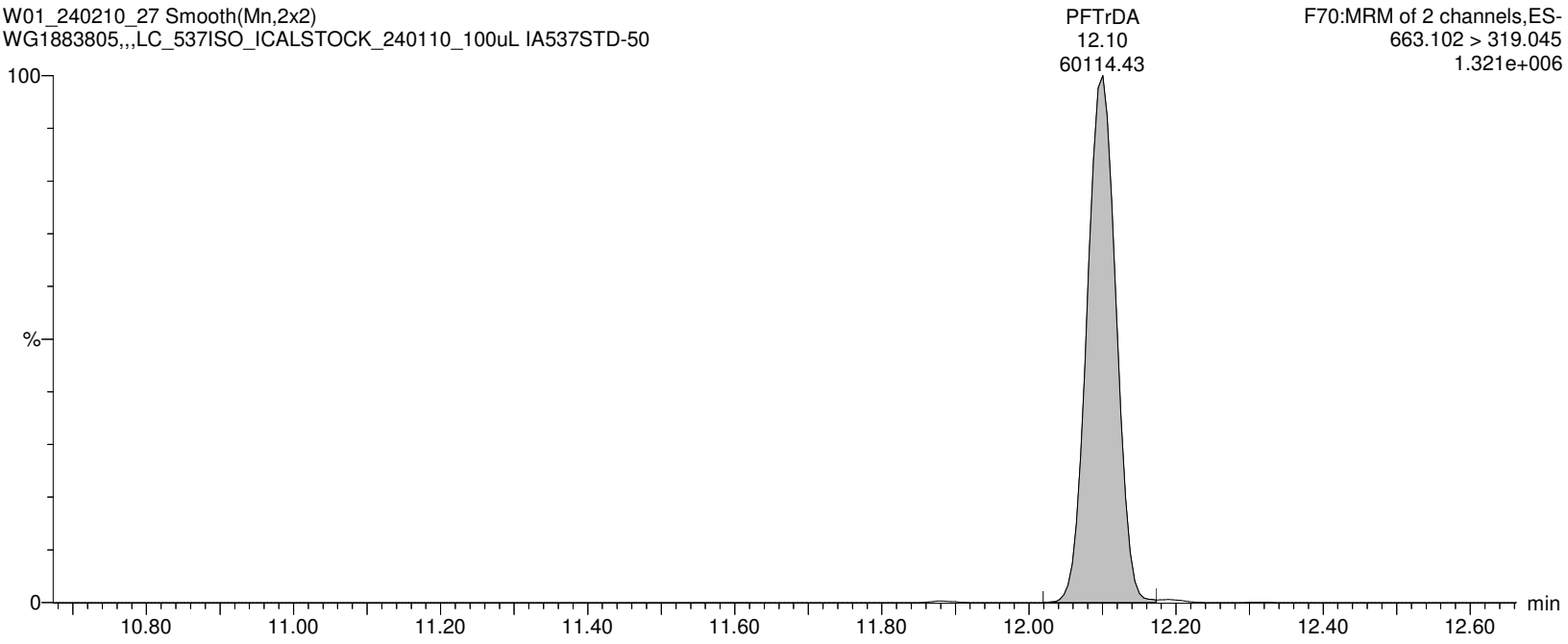

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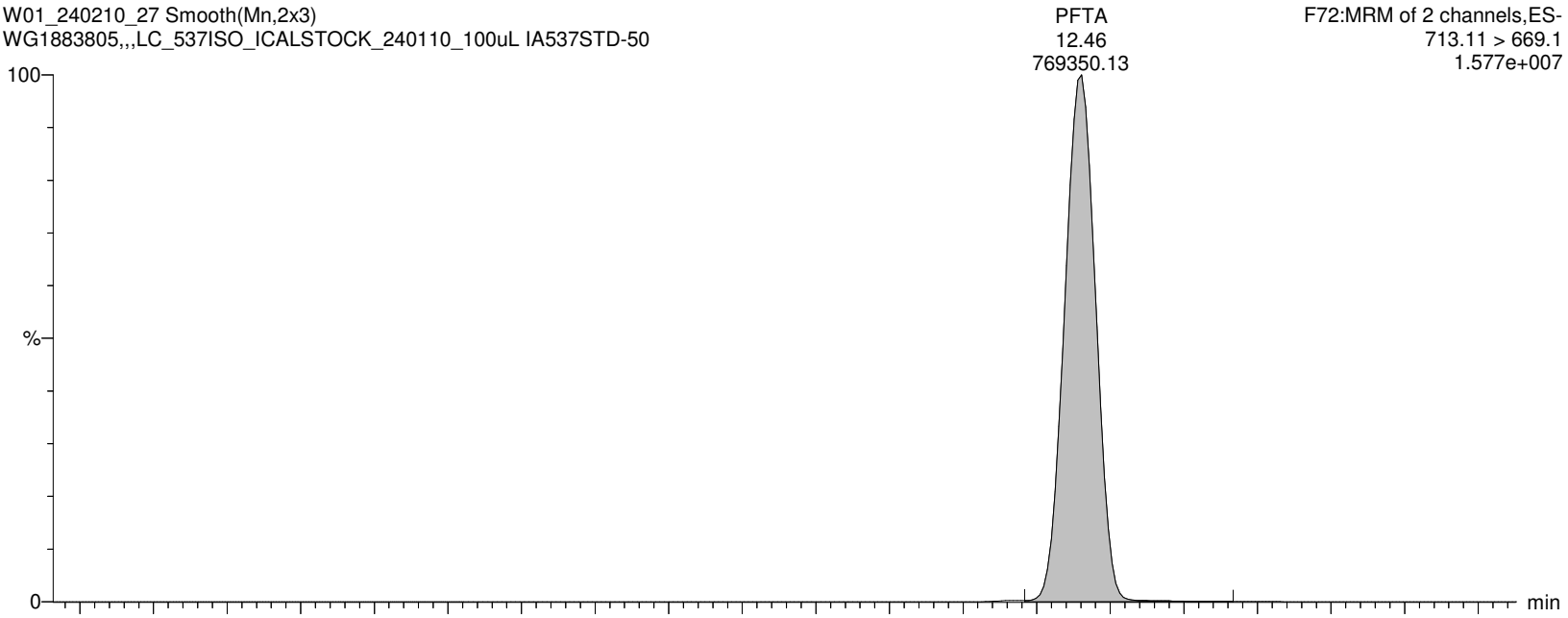

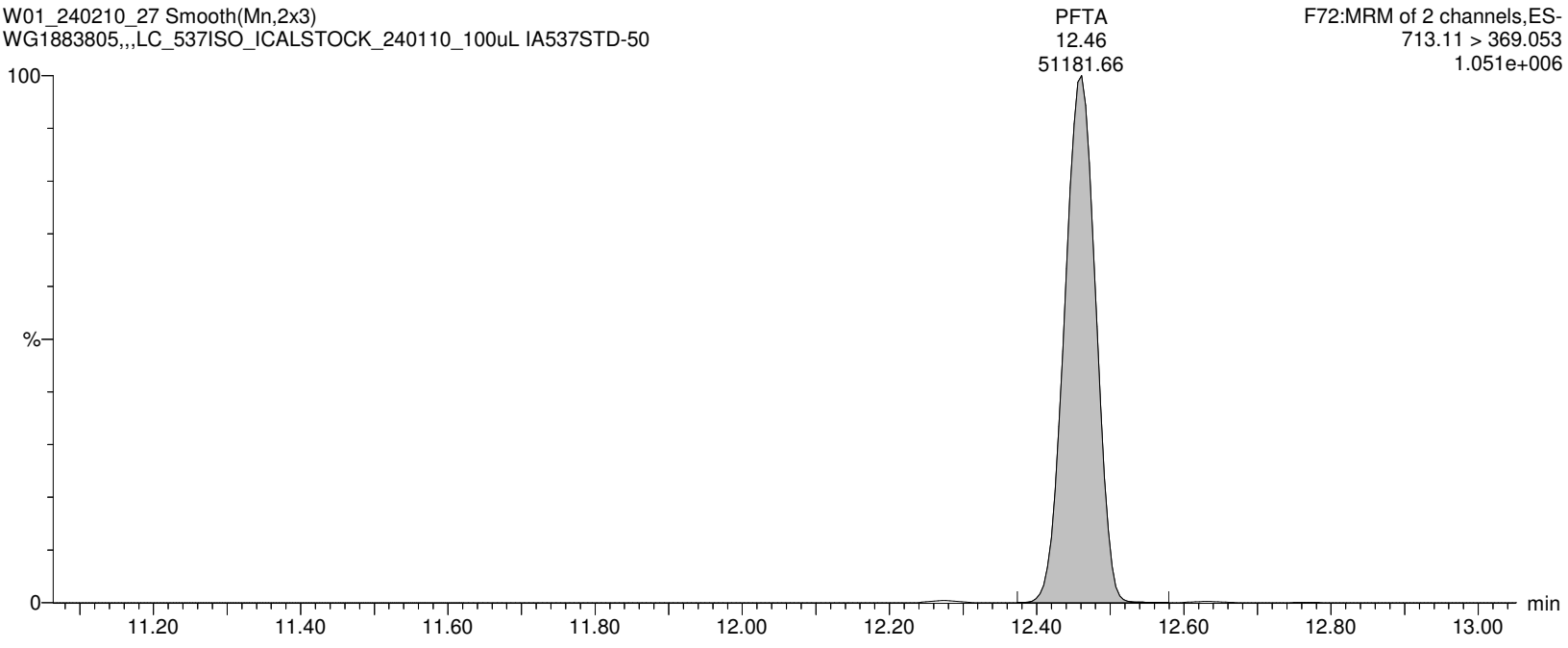

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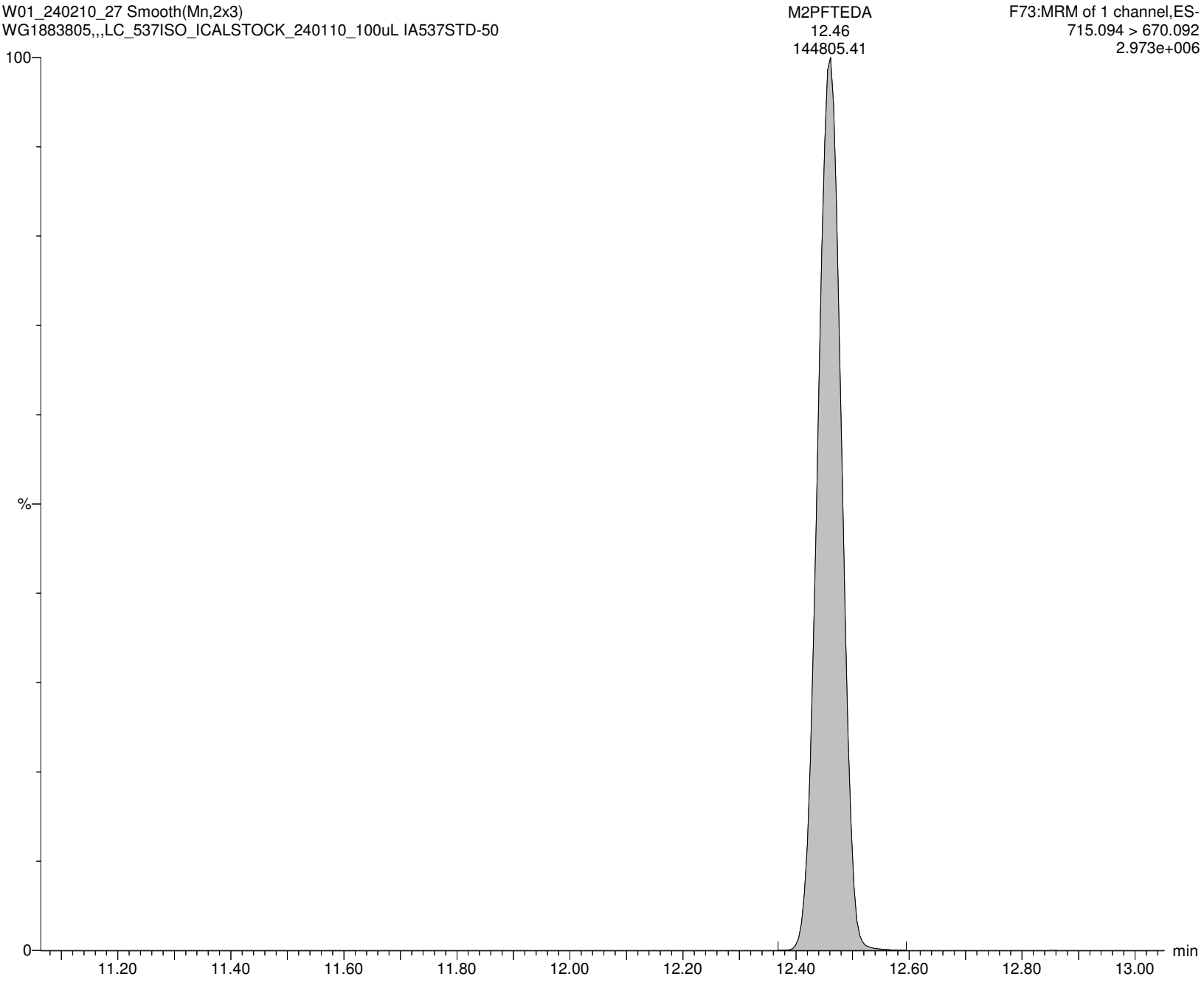

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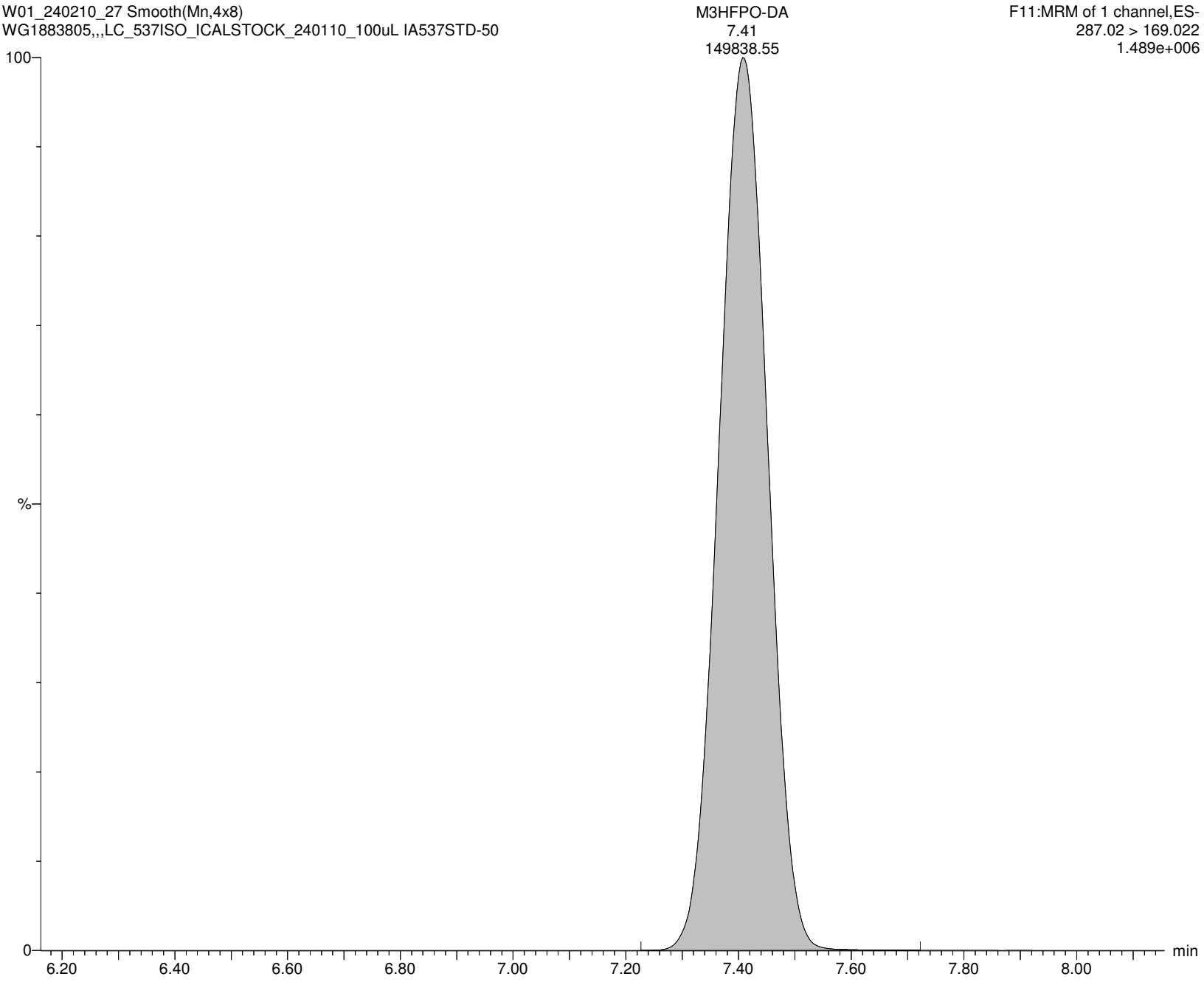

all concentration units in (ng/mL)

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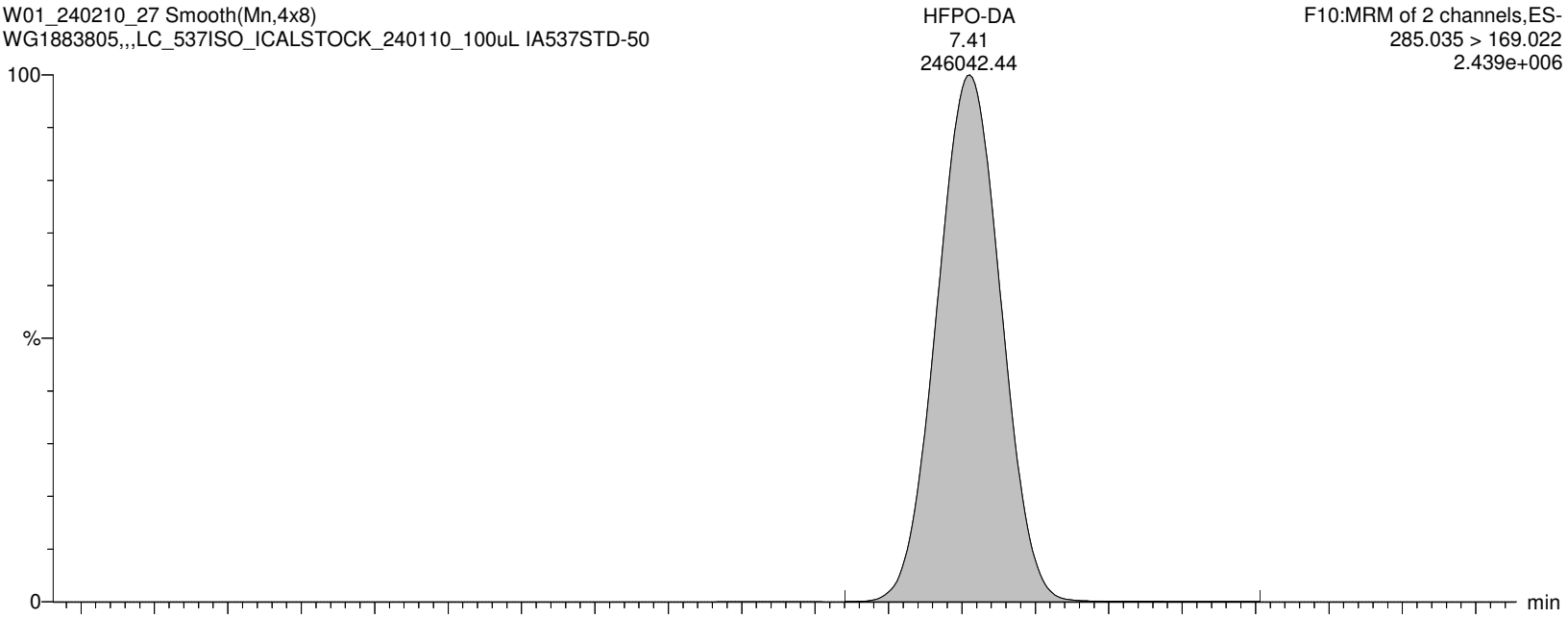
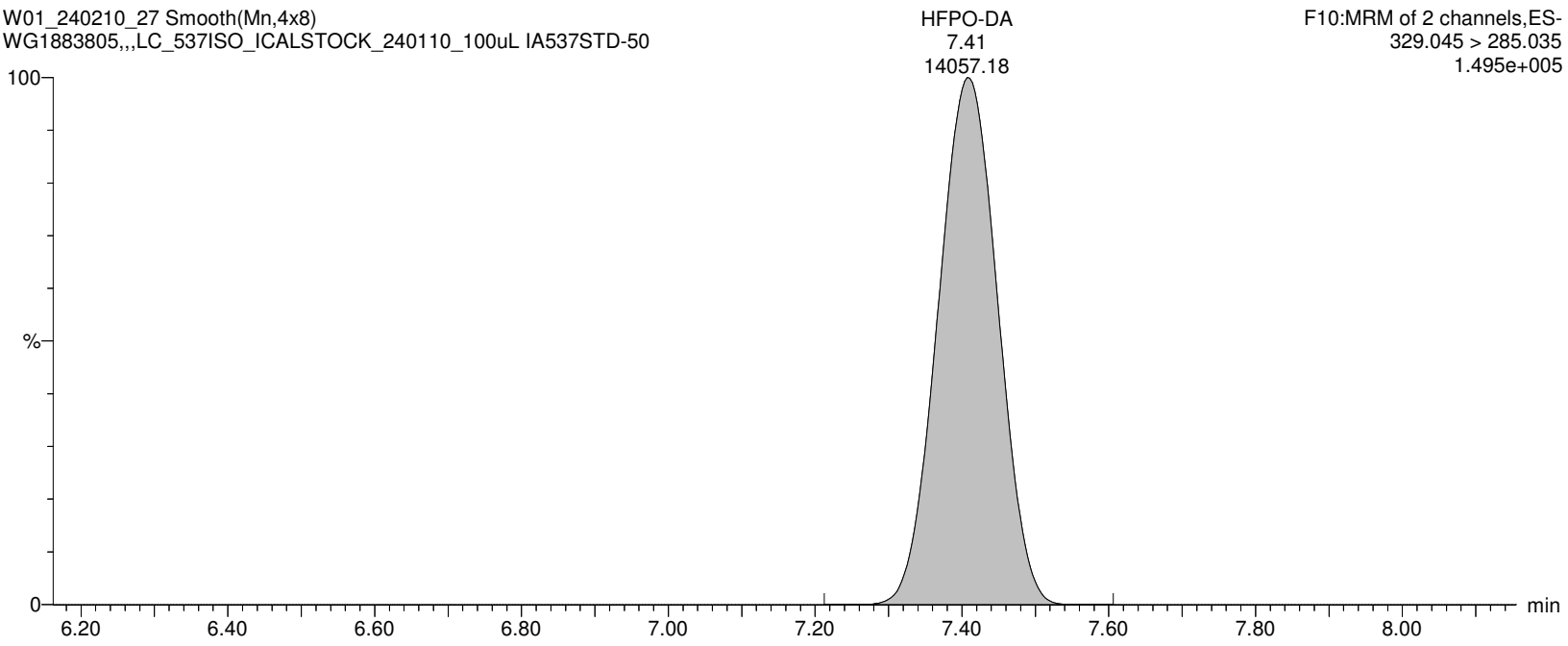
HFPO-DA





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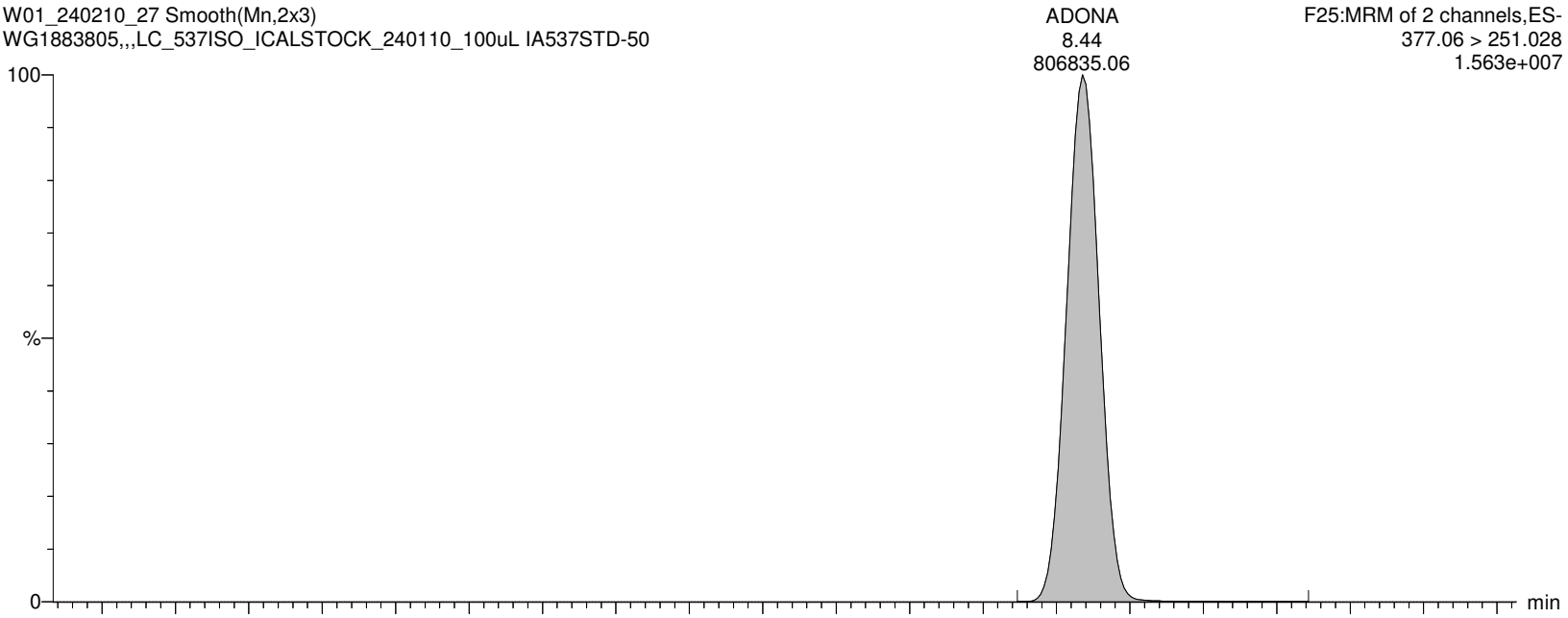

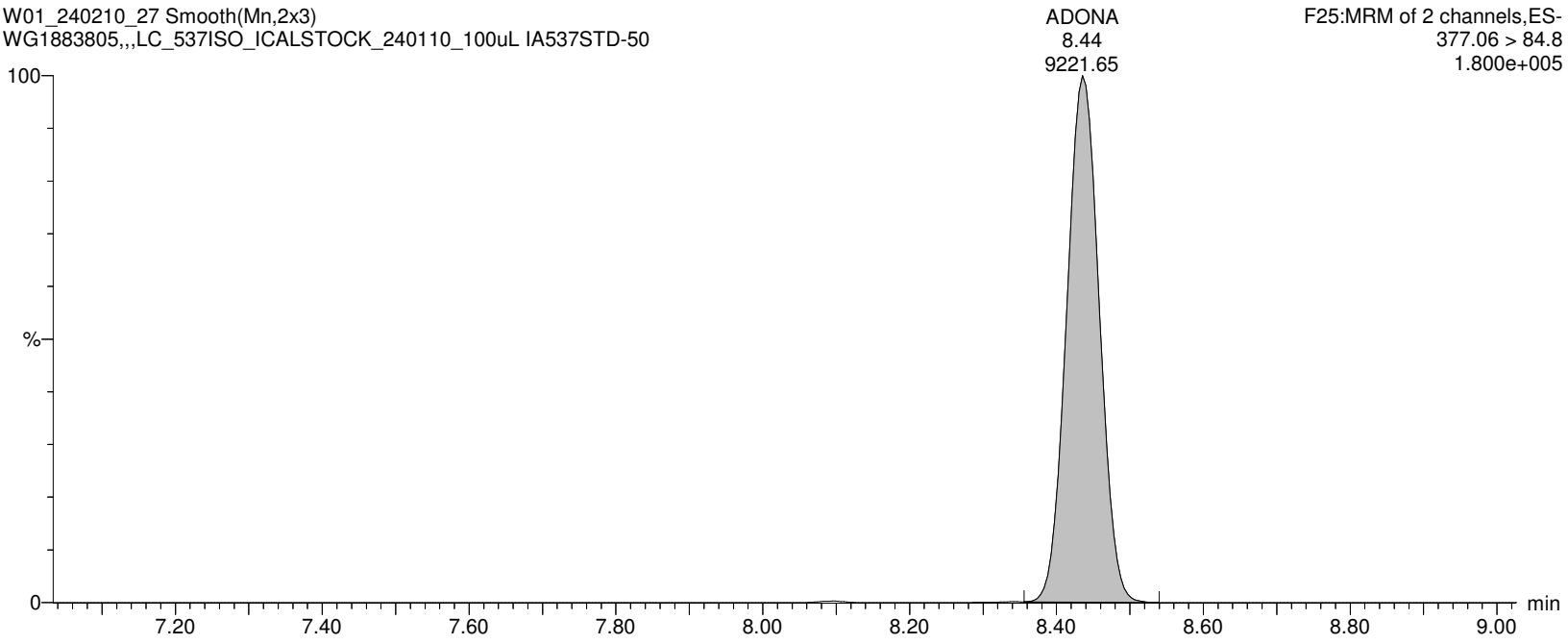

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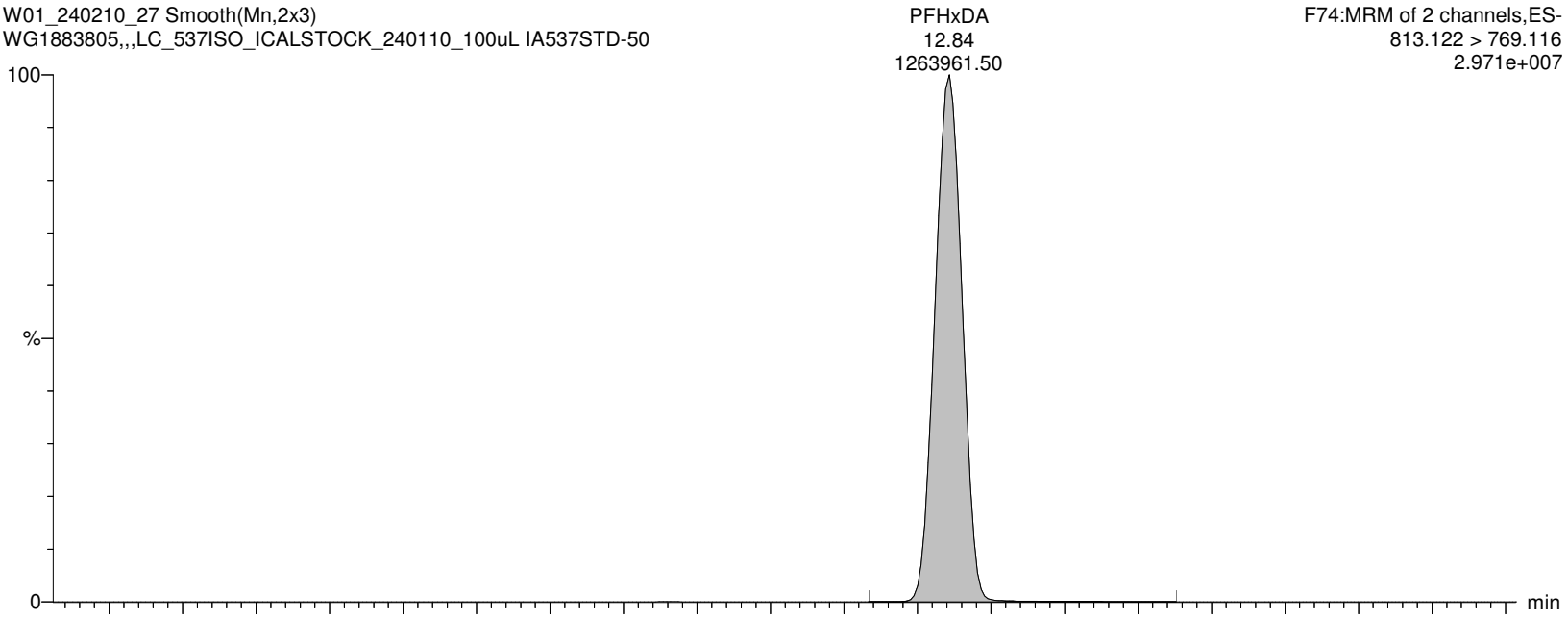

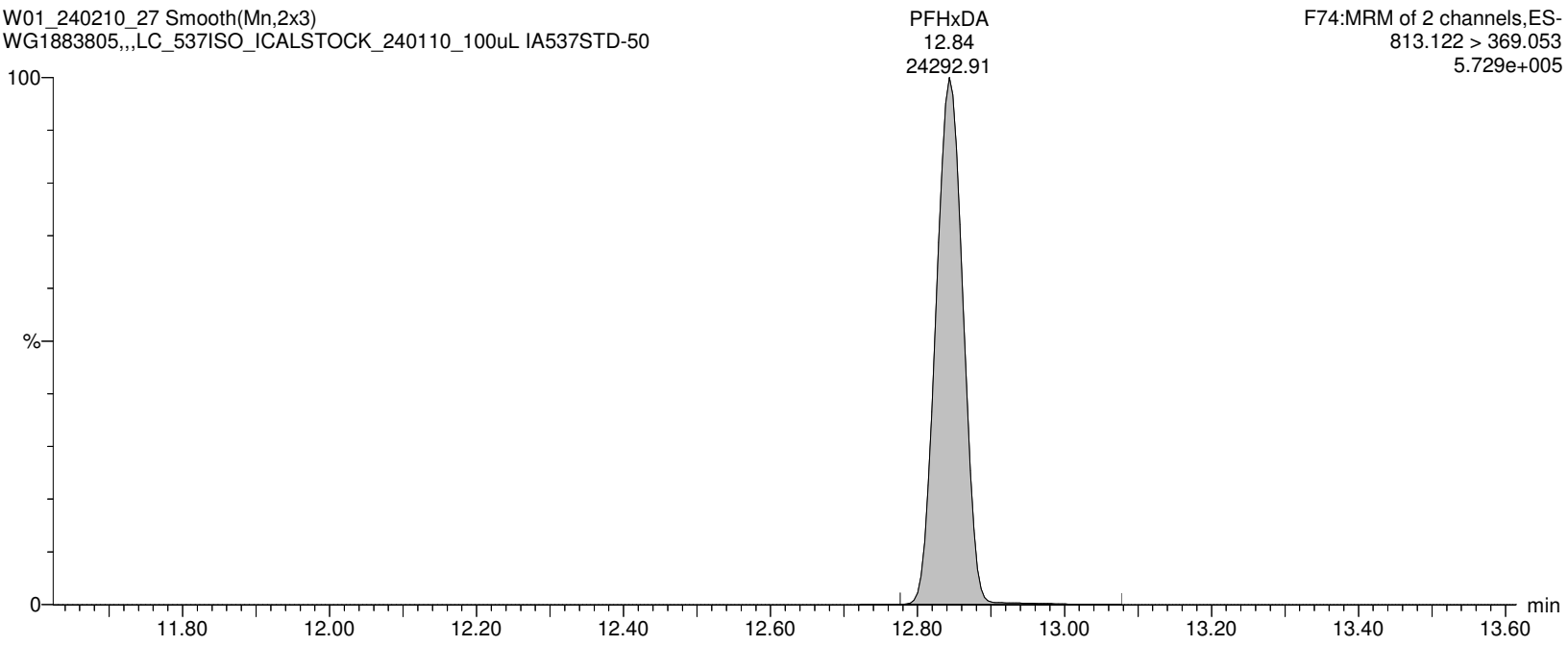

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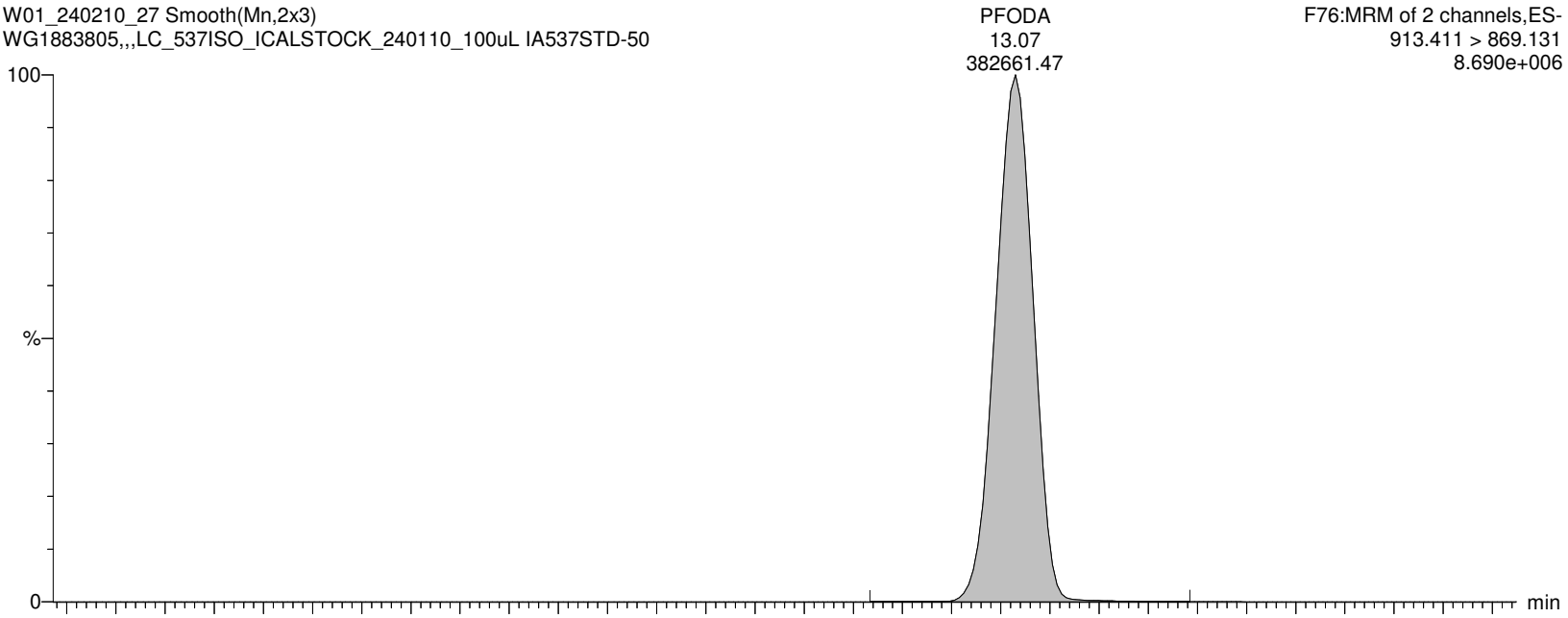

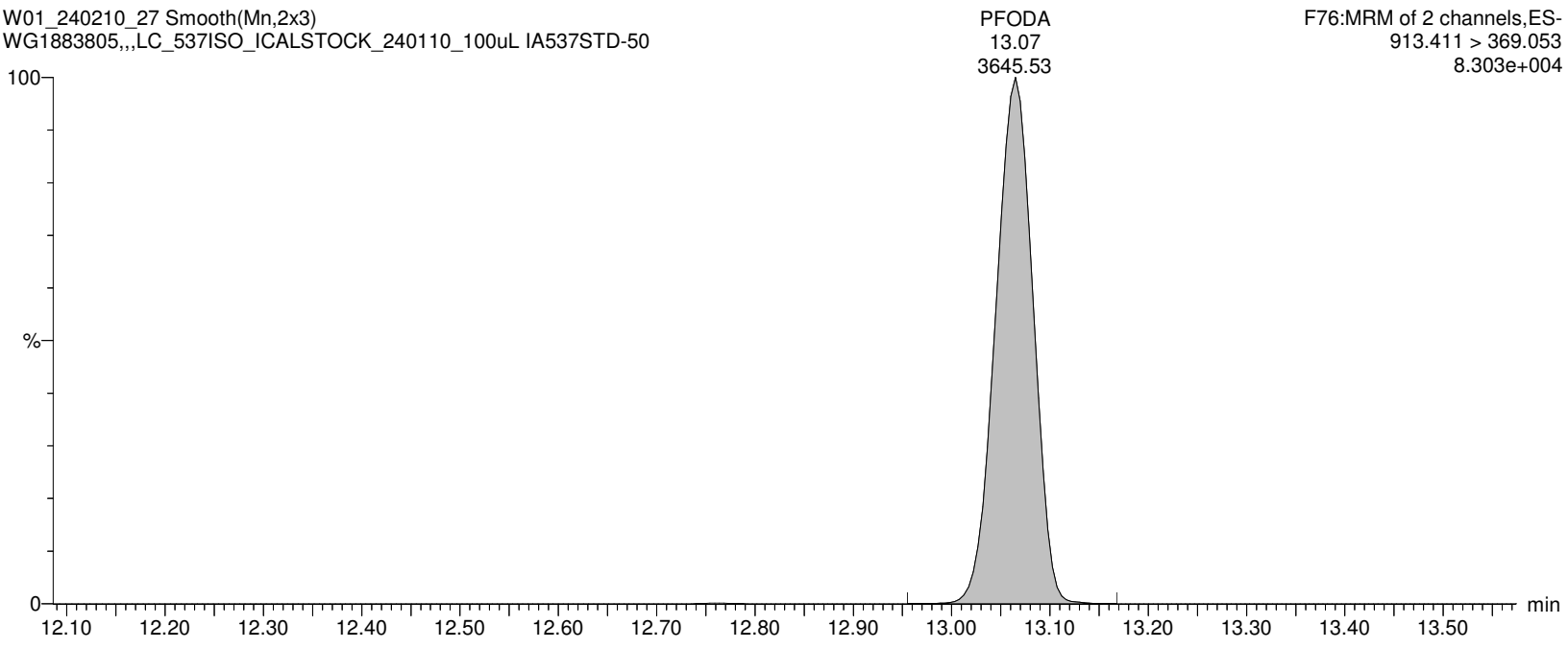

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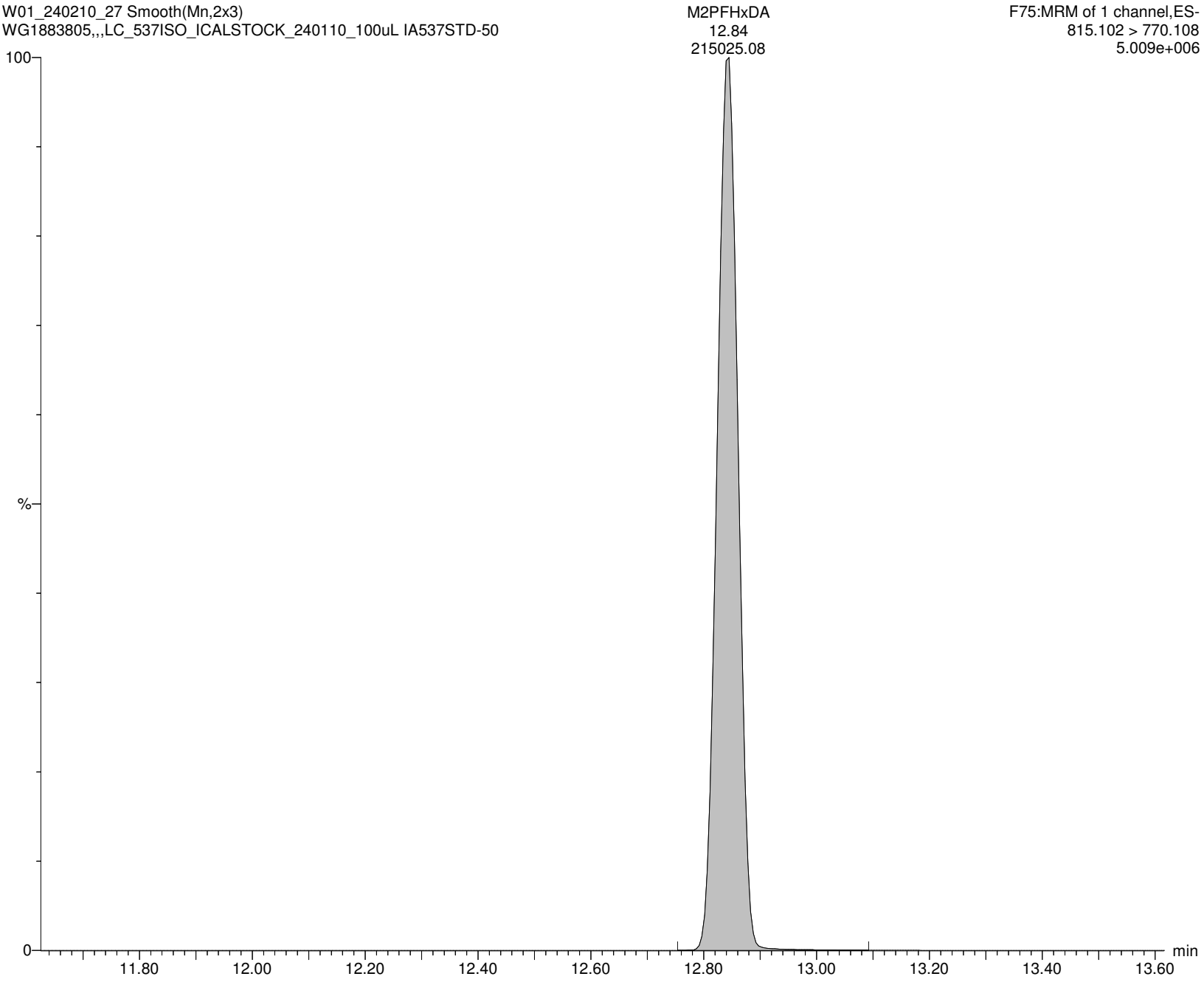

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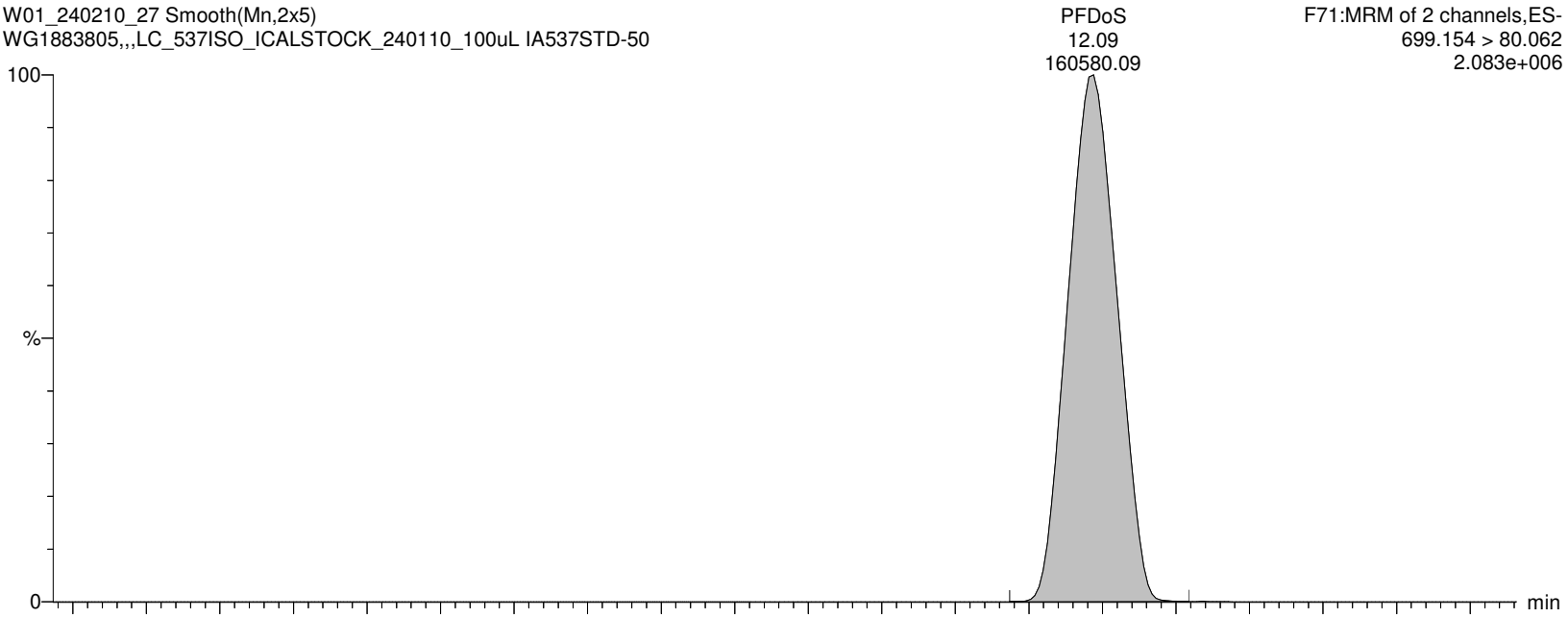

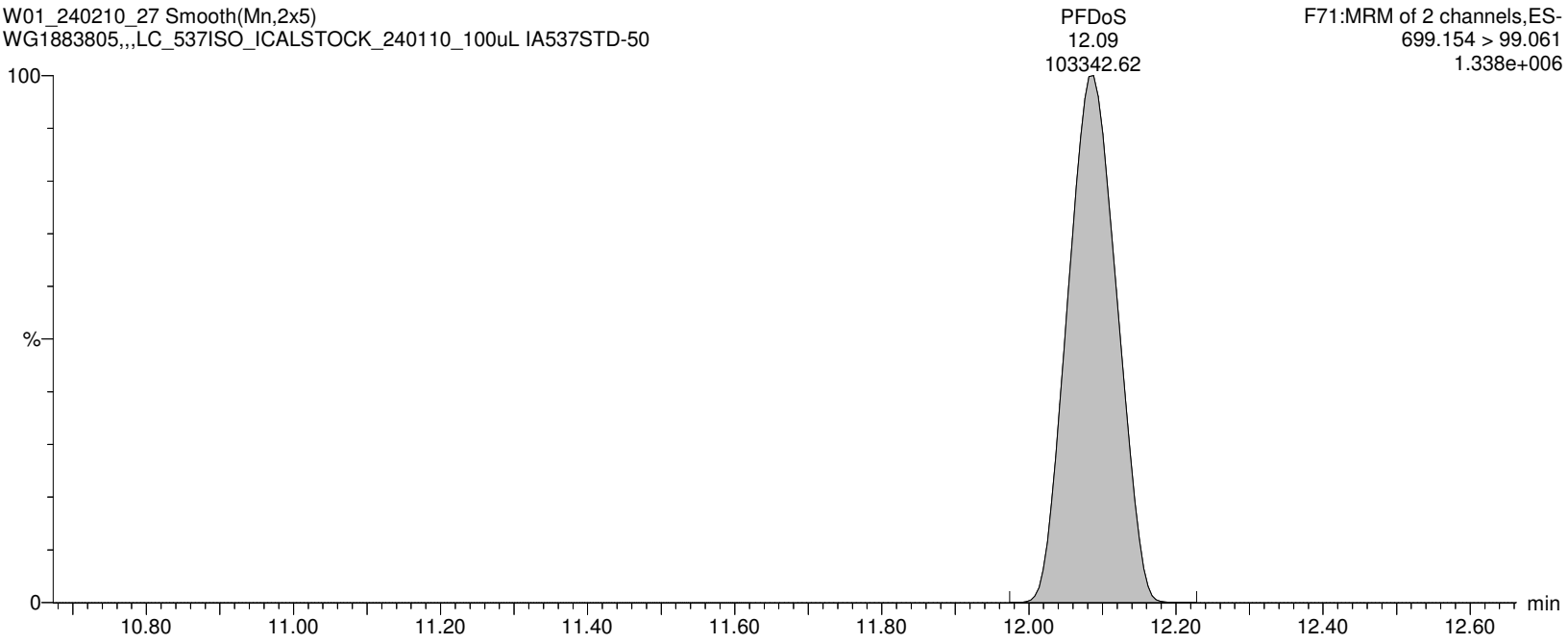

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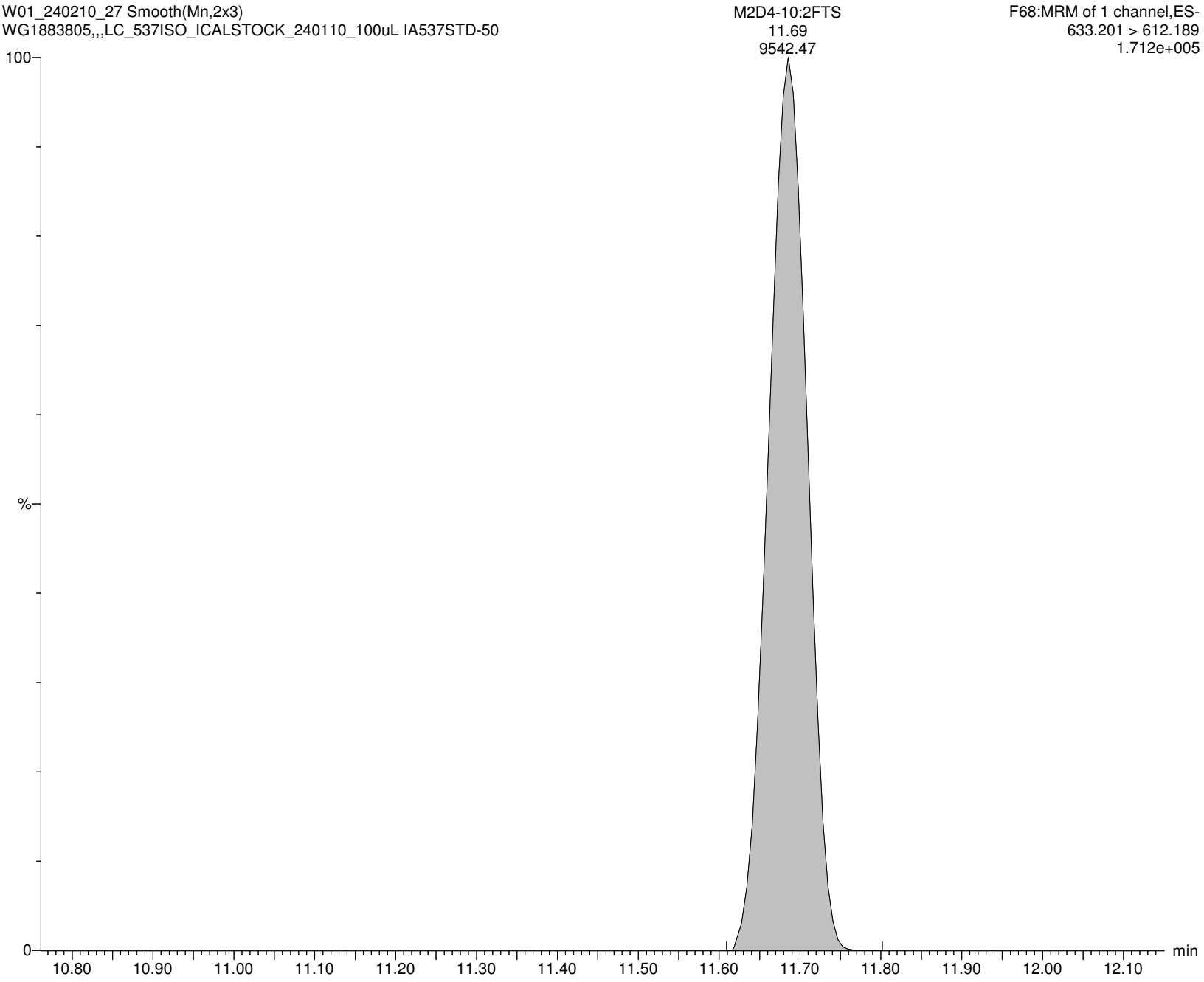

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

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ID: IA537STD-50
Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
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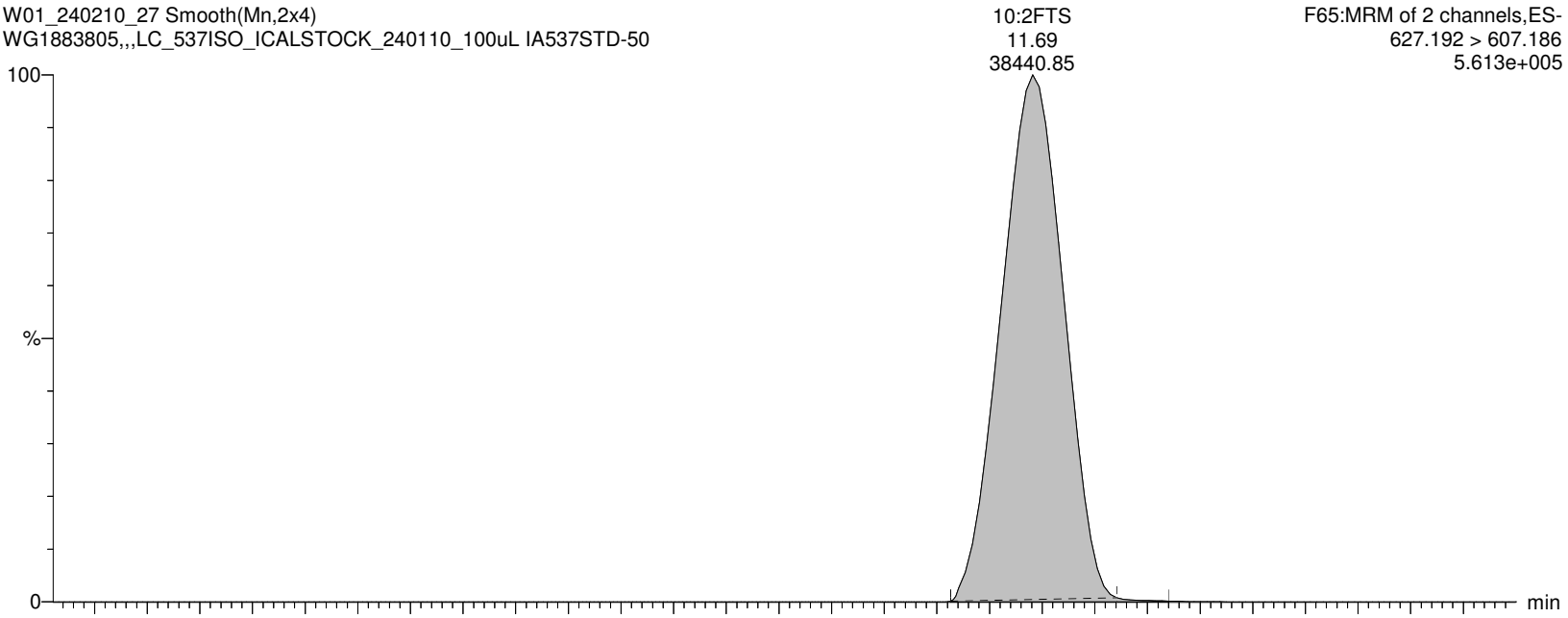
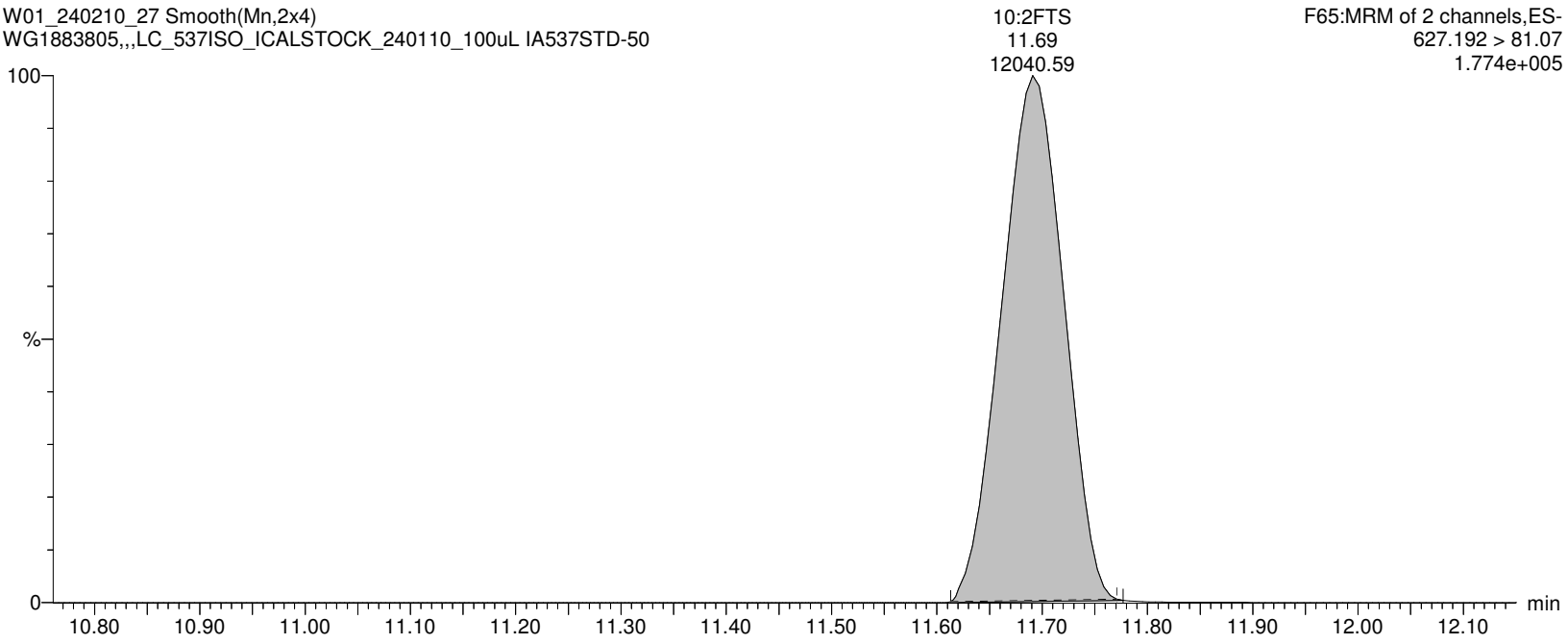
10:2FTS





all concentration units in (ng/mL)

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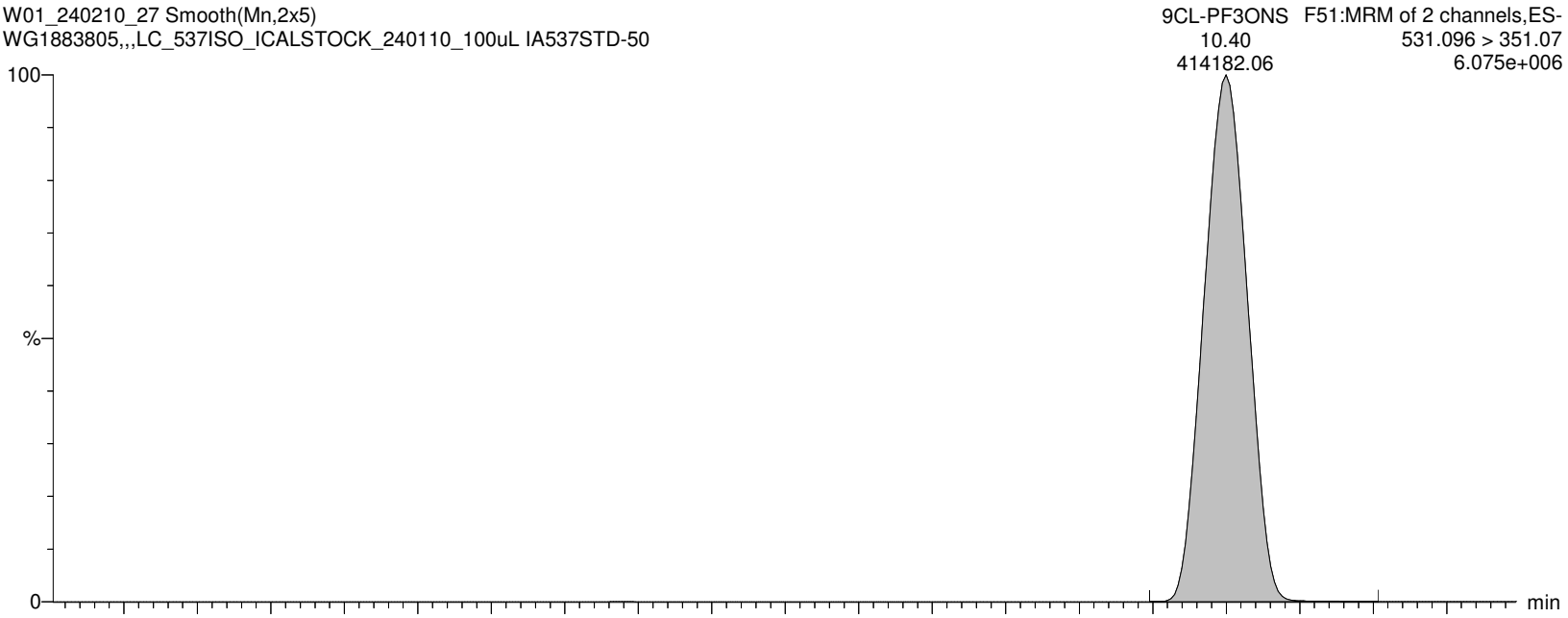
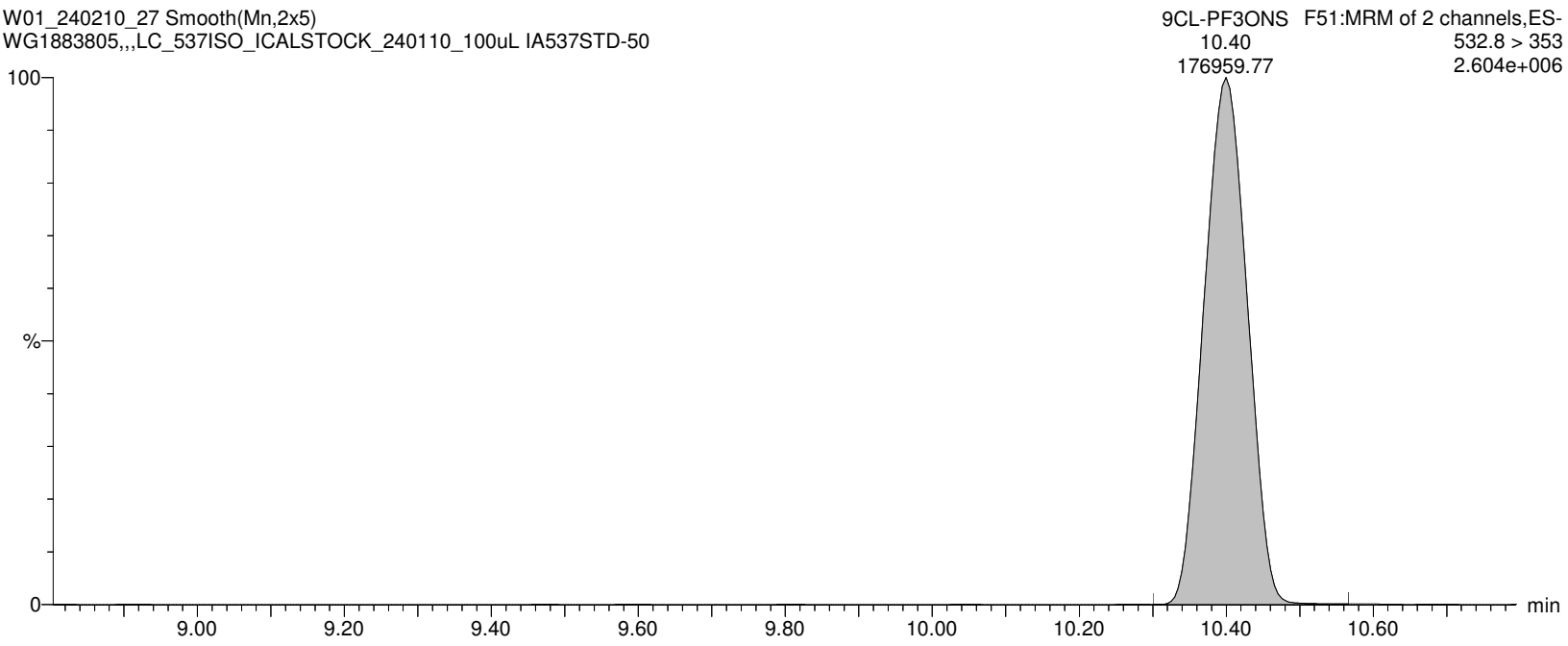
9CL-PF3ONS





all concentration units in (ng/mL)

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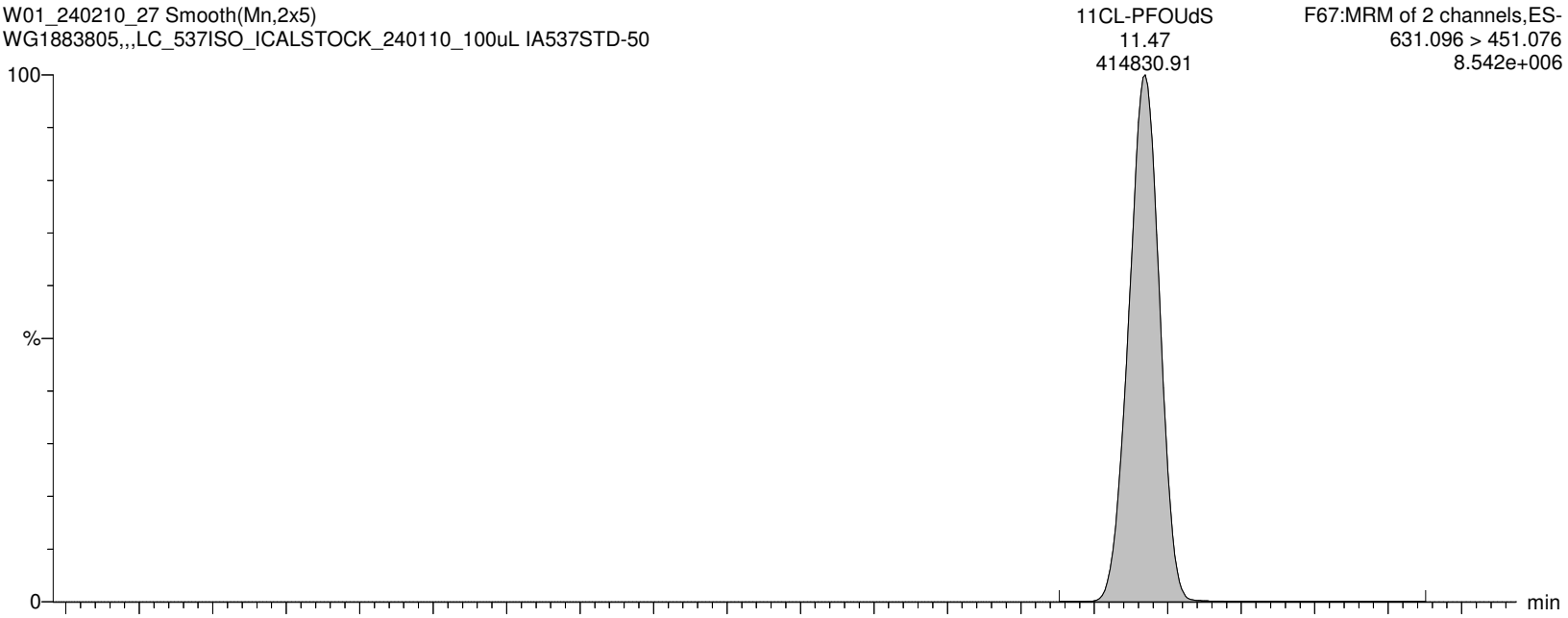
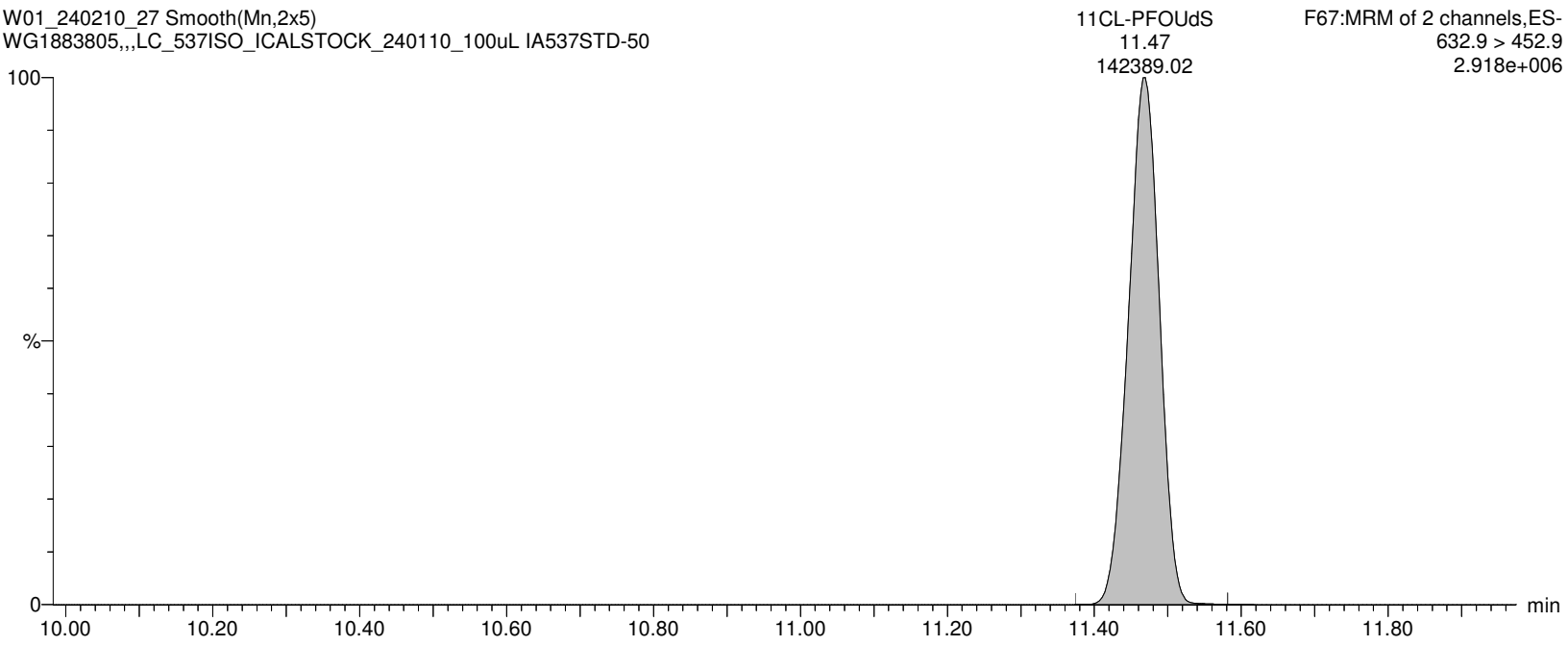
11CL-PFOUdS





all concentration units in (ng/mL)

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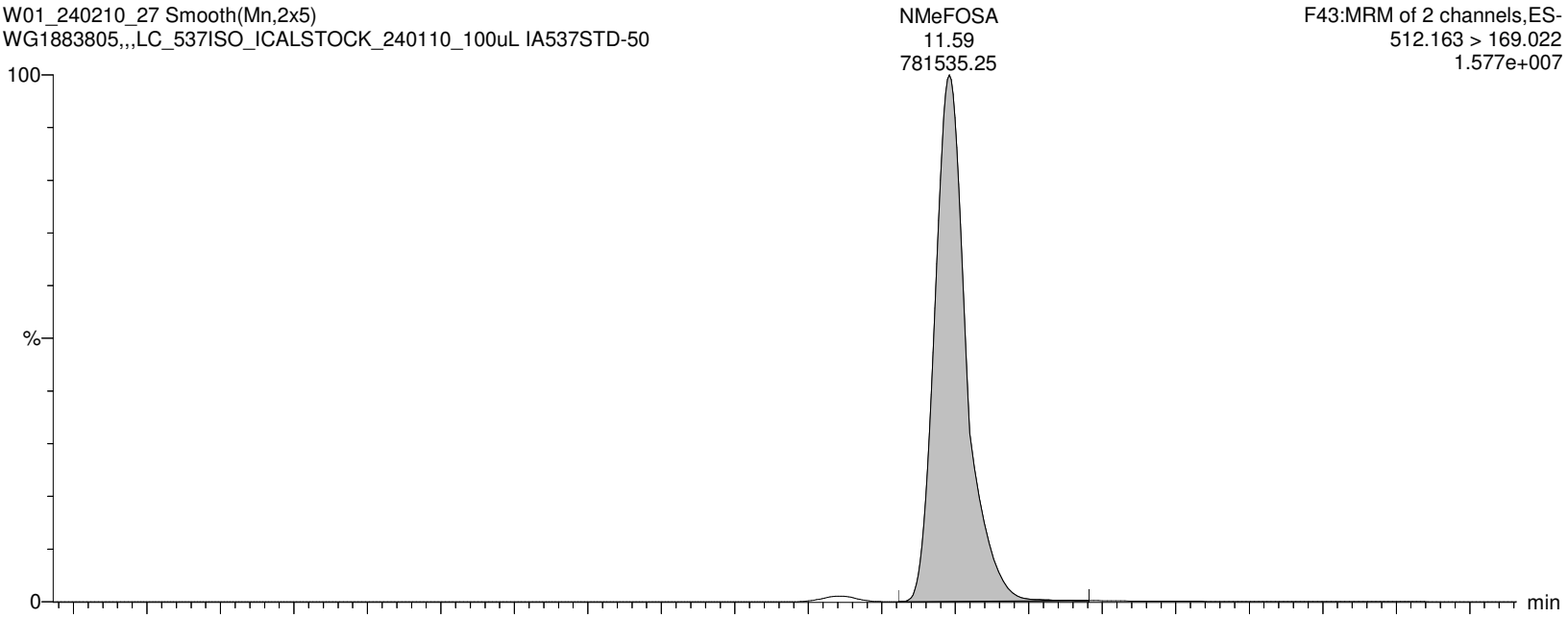
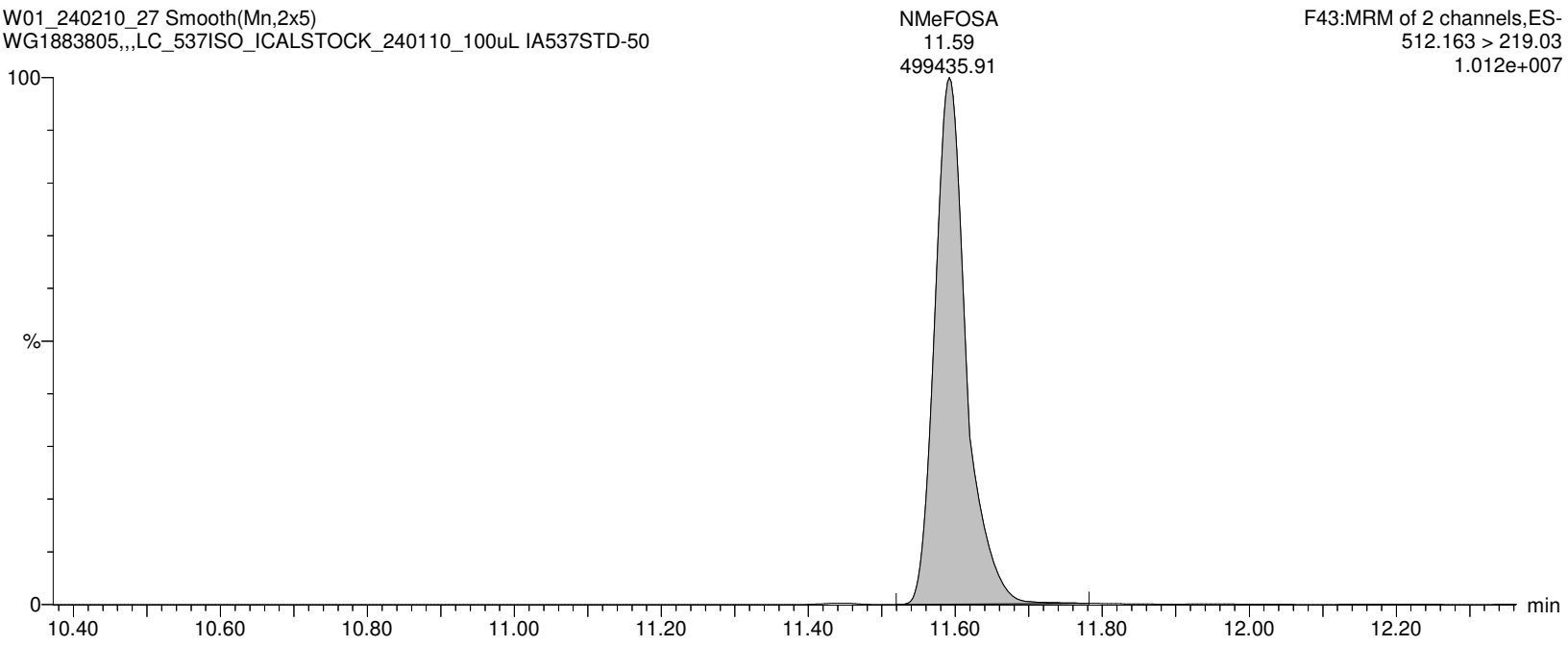
NMeFOSA





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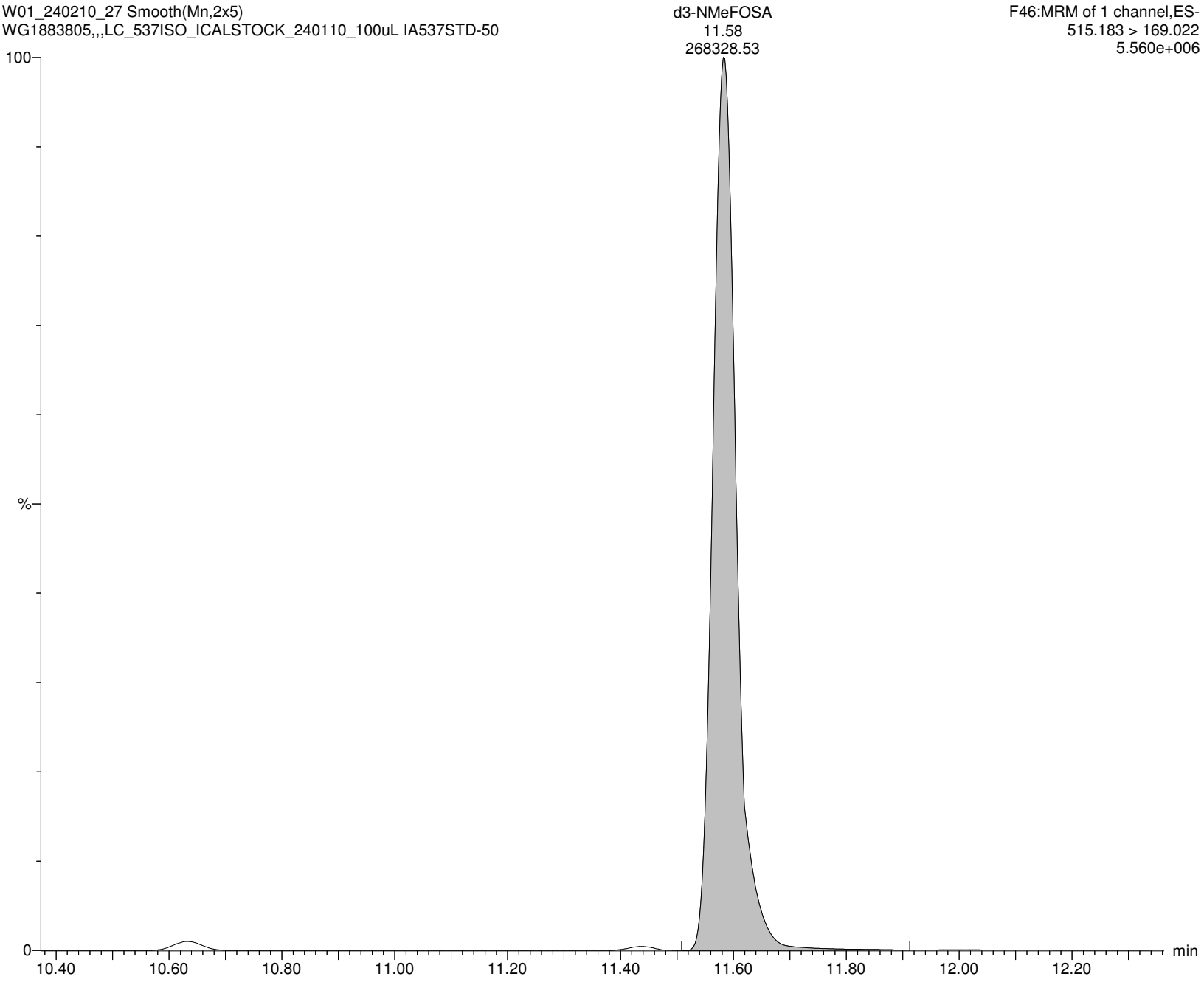

all concentration units in (ng/mL)

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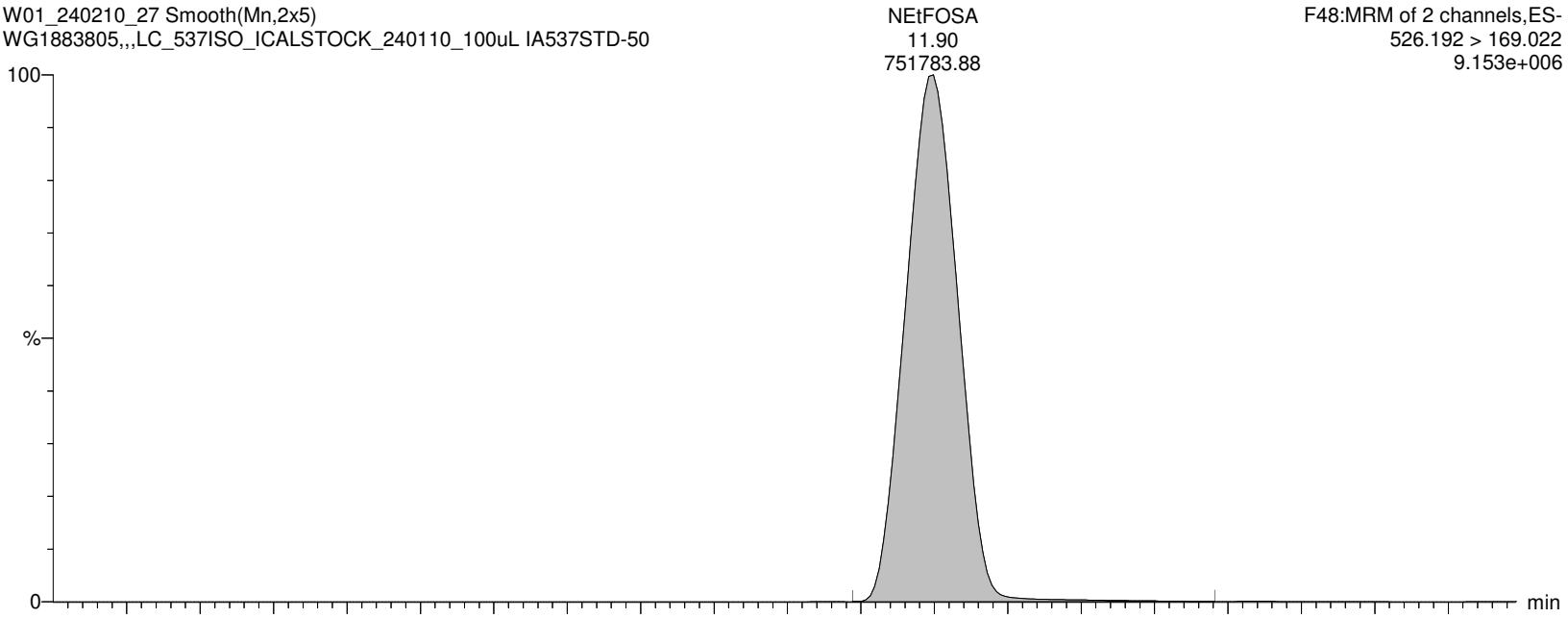

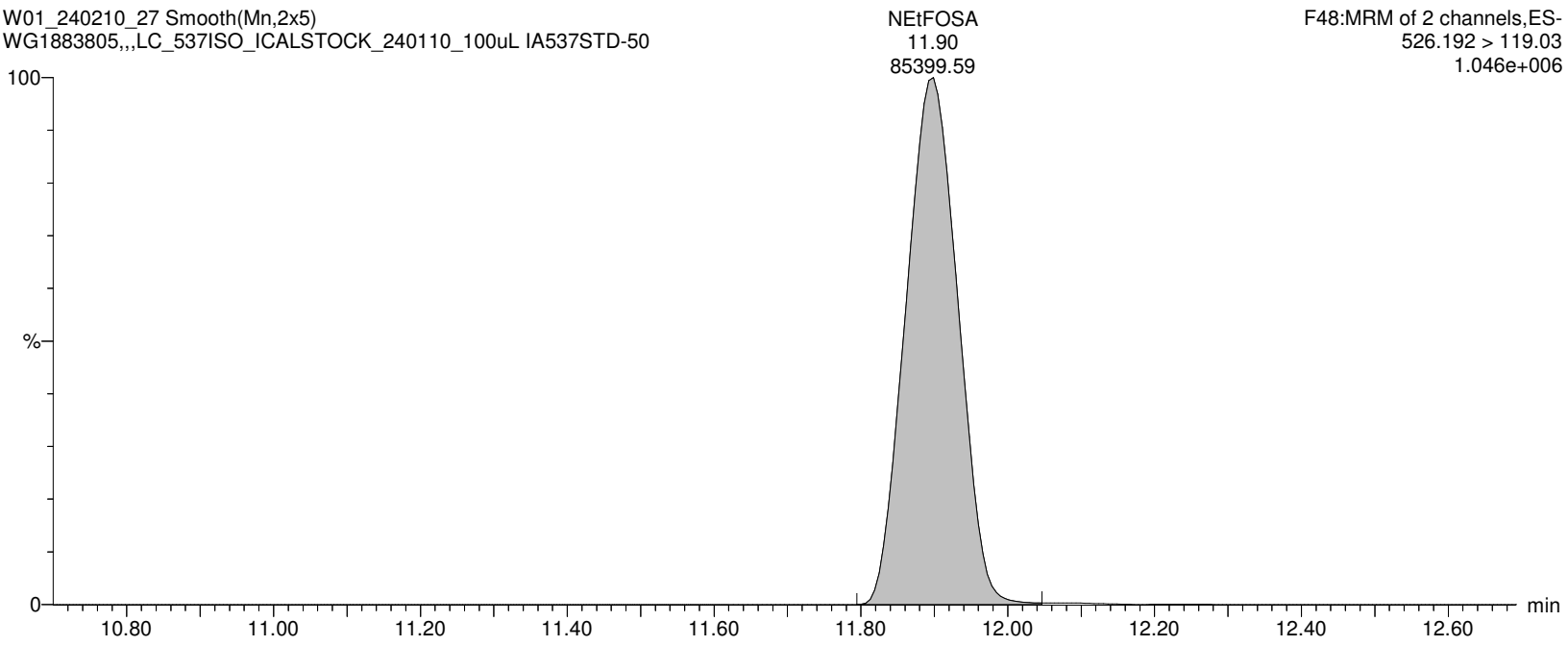

all concentration units in (ng/mL)

Alpha Analytical Inc.
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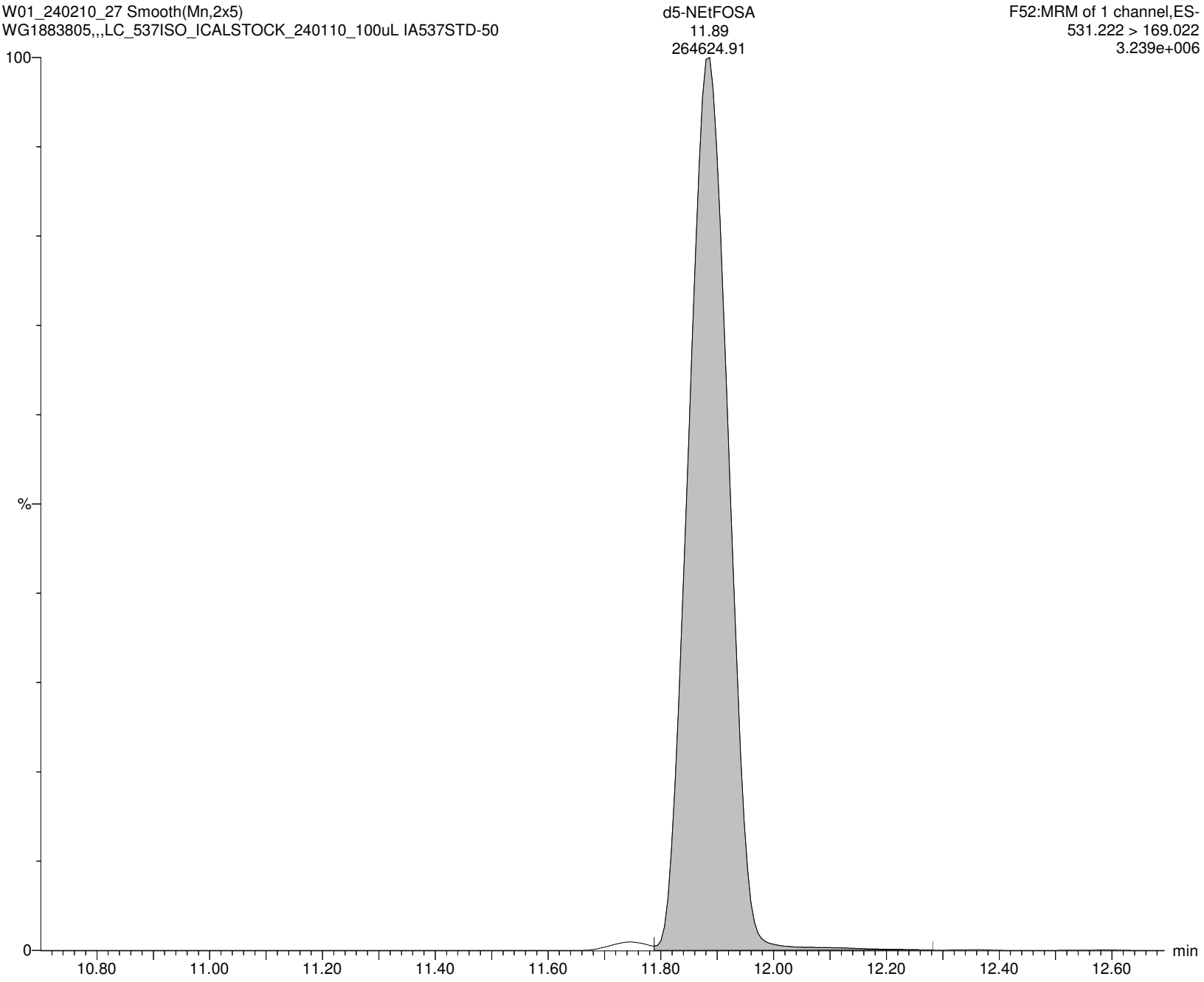

all concentration units in (ng/mL)

Alpha Analytical Inc.
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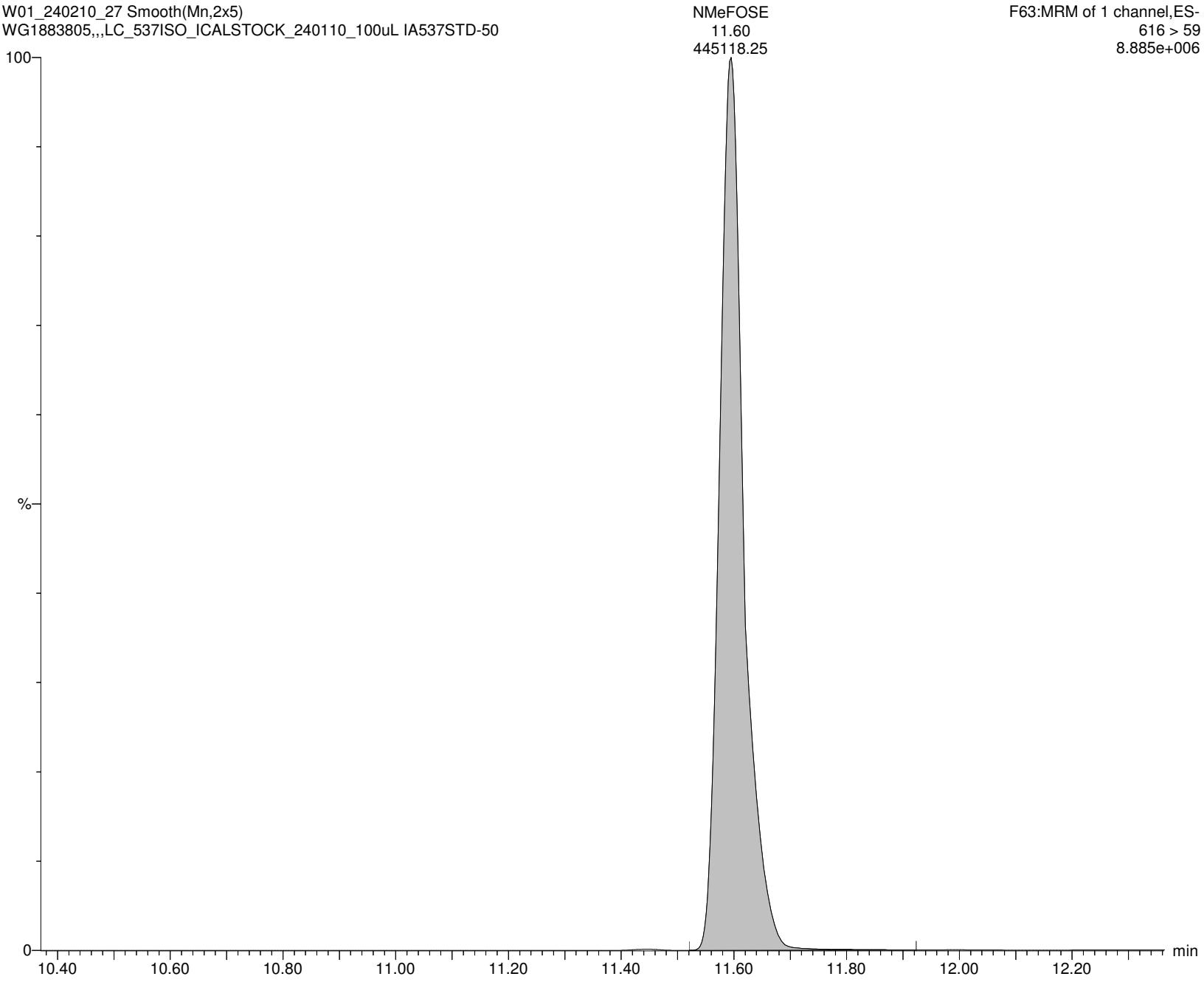
NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
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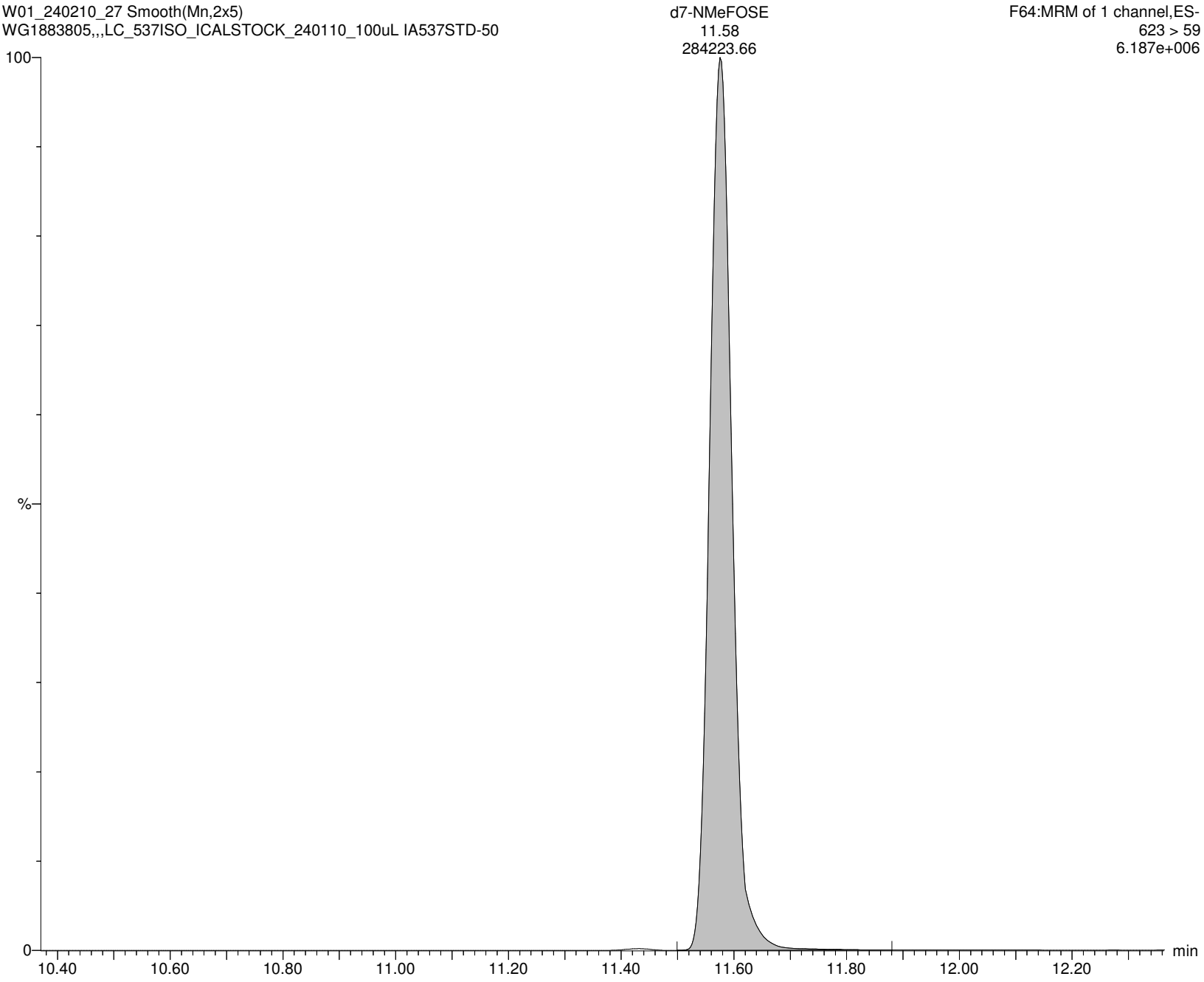
d7-NMeFOSE



all concentration units in (ng/mL)

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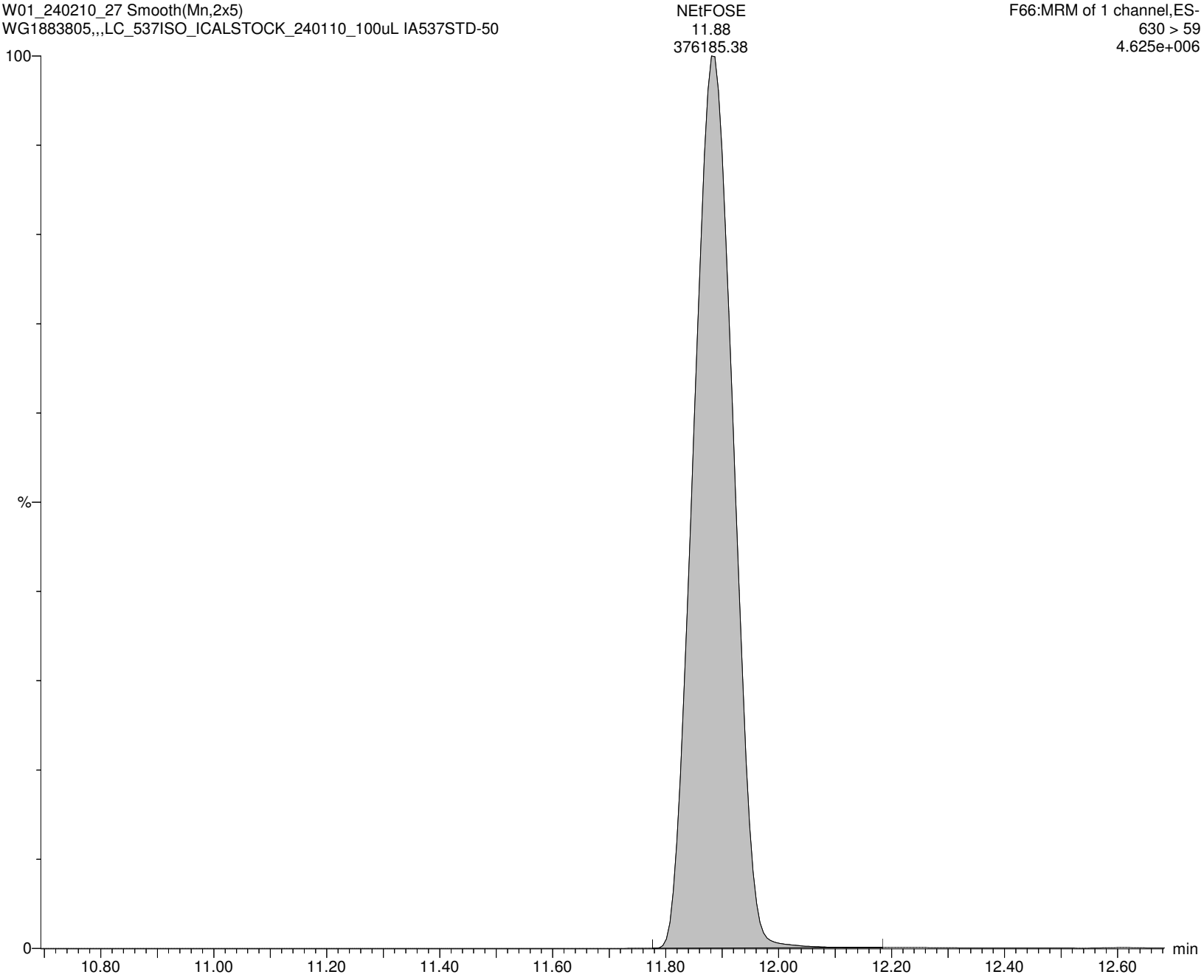

all concentration units in (ng/mL)

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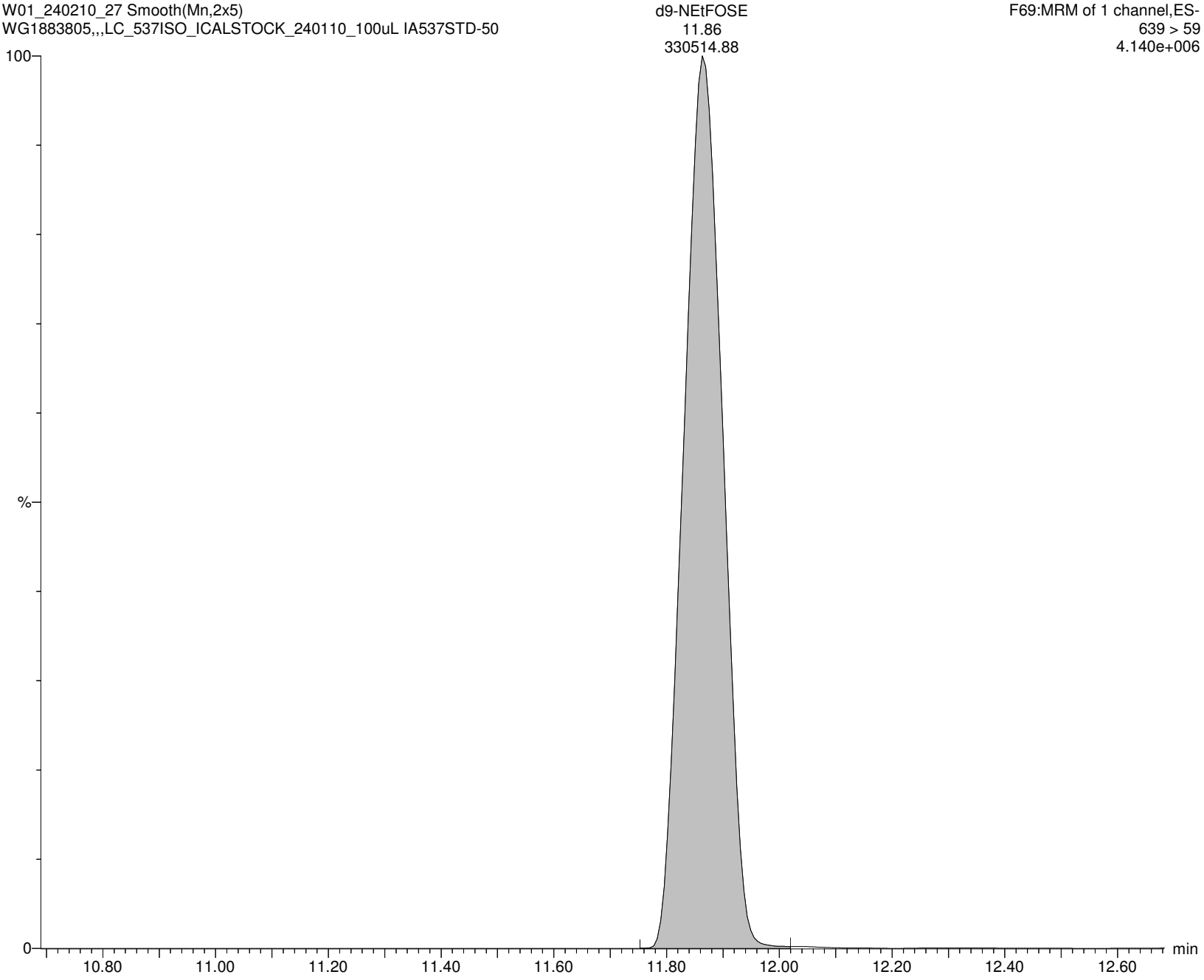

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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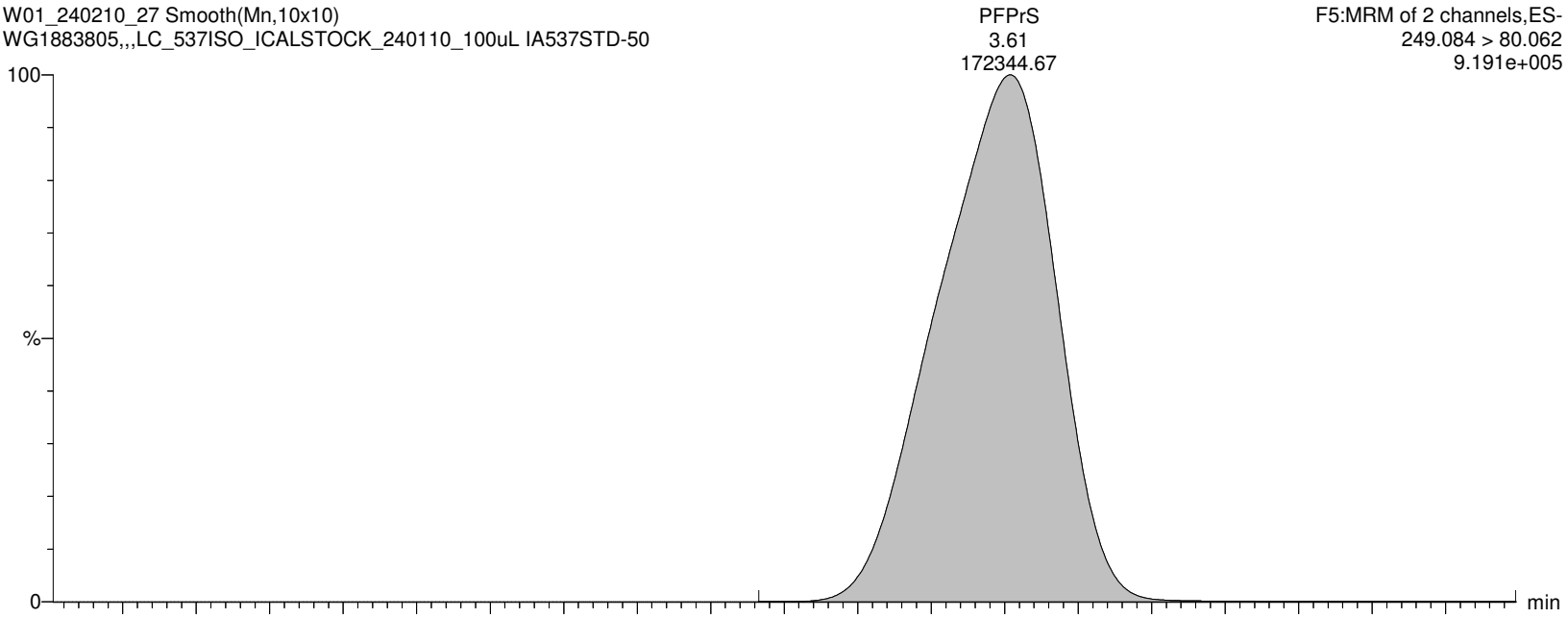
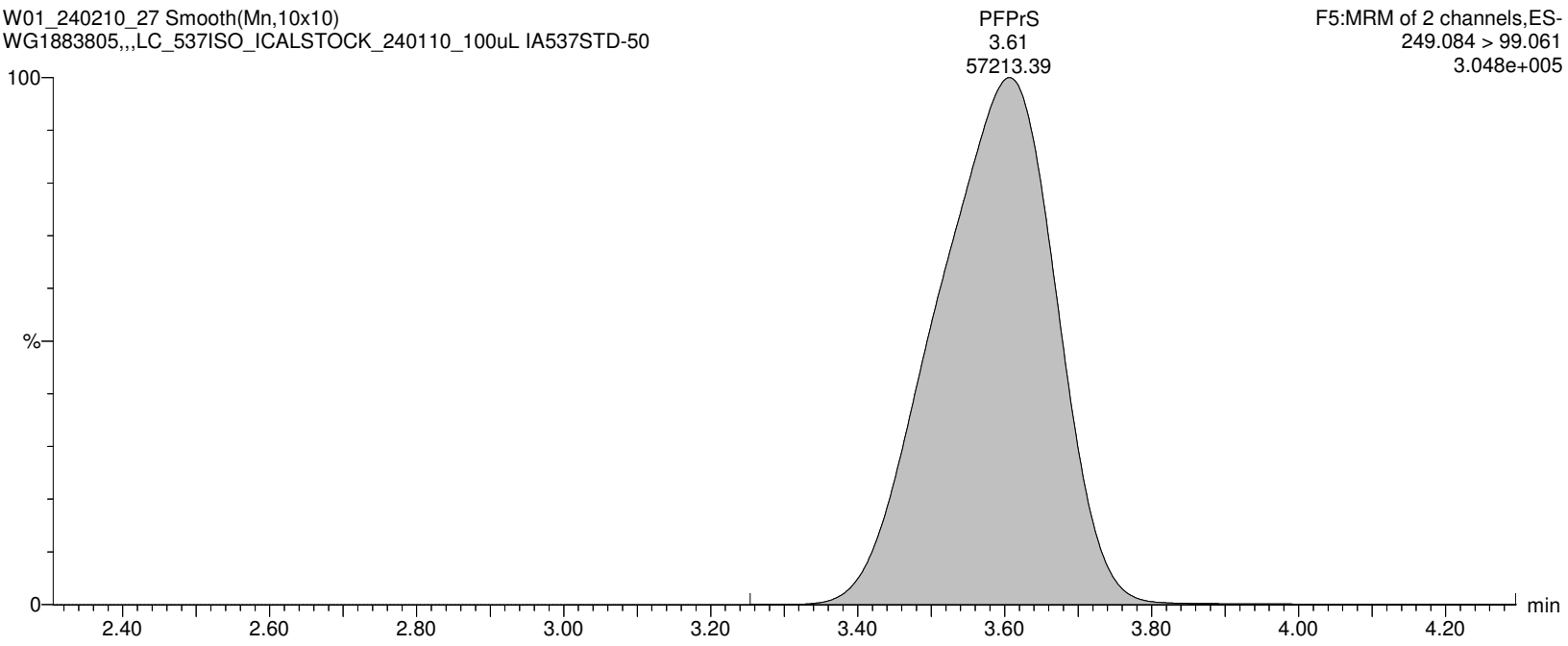
PFPrS





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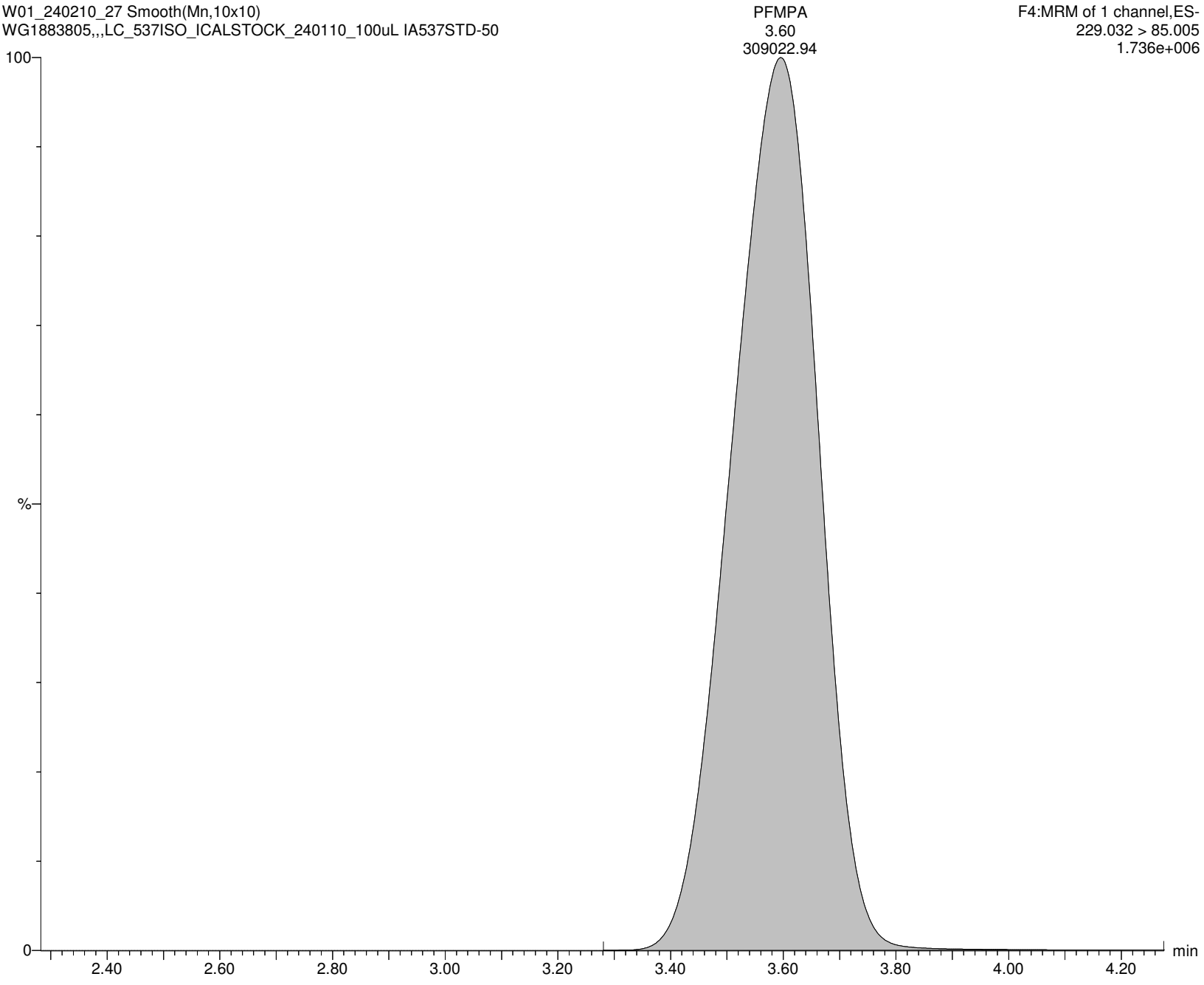
PFMPA



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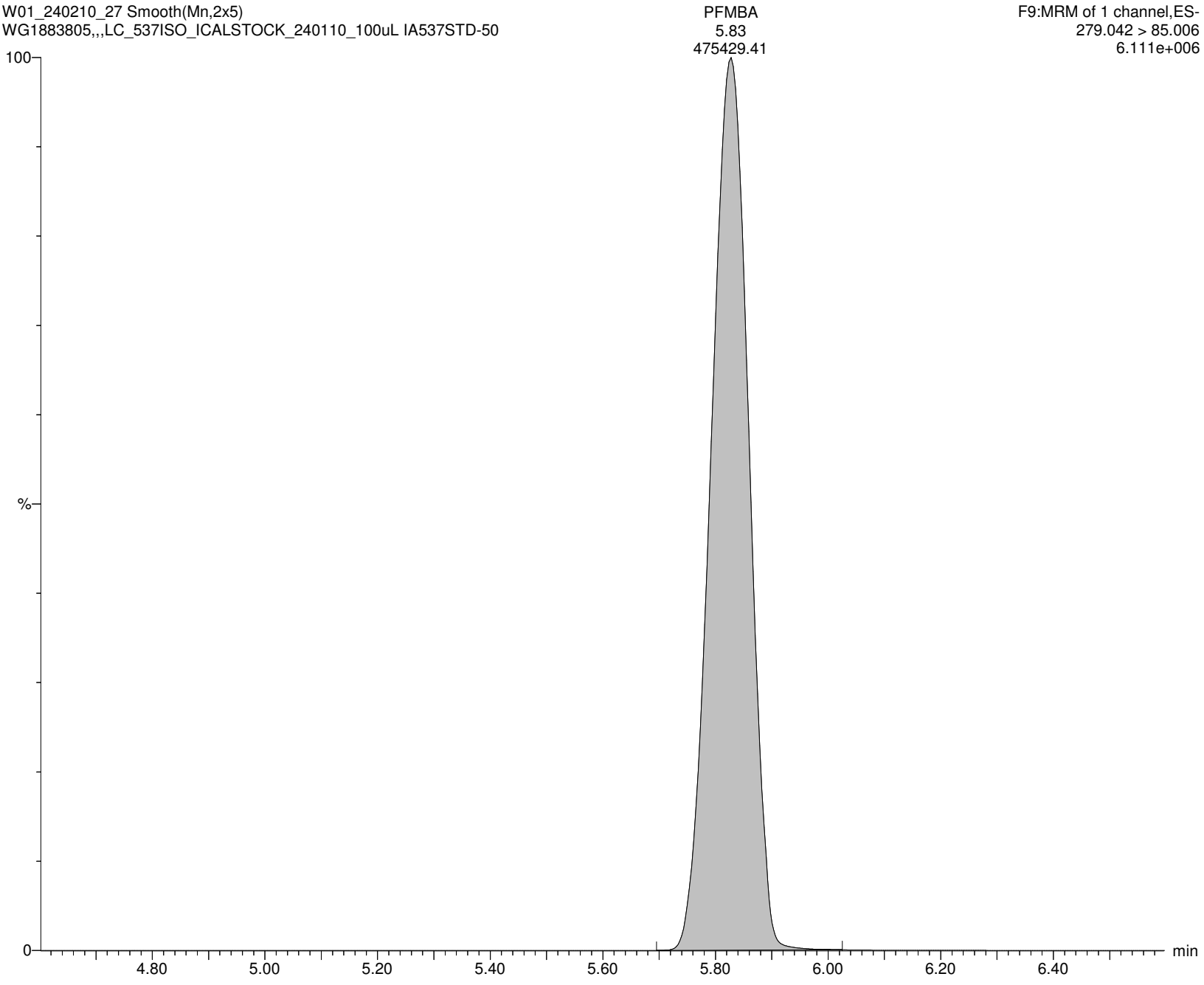

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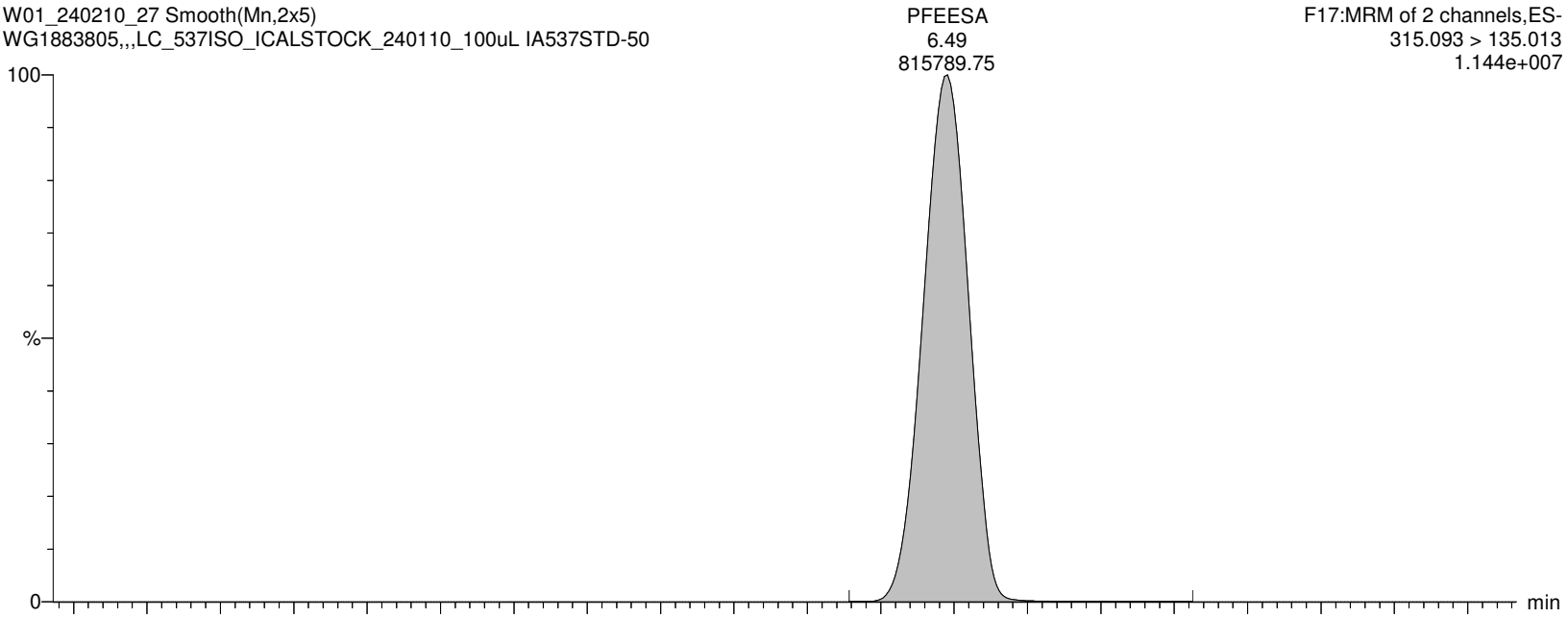

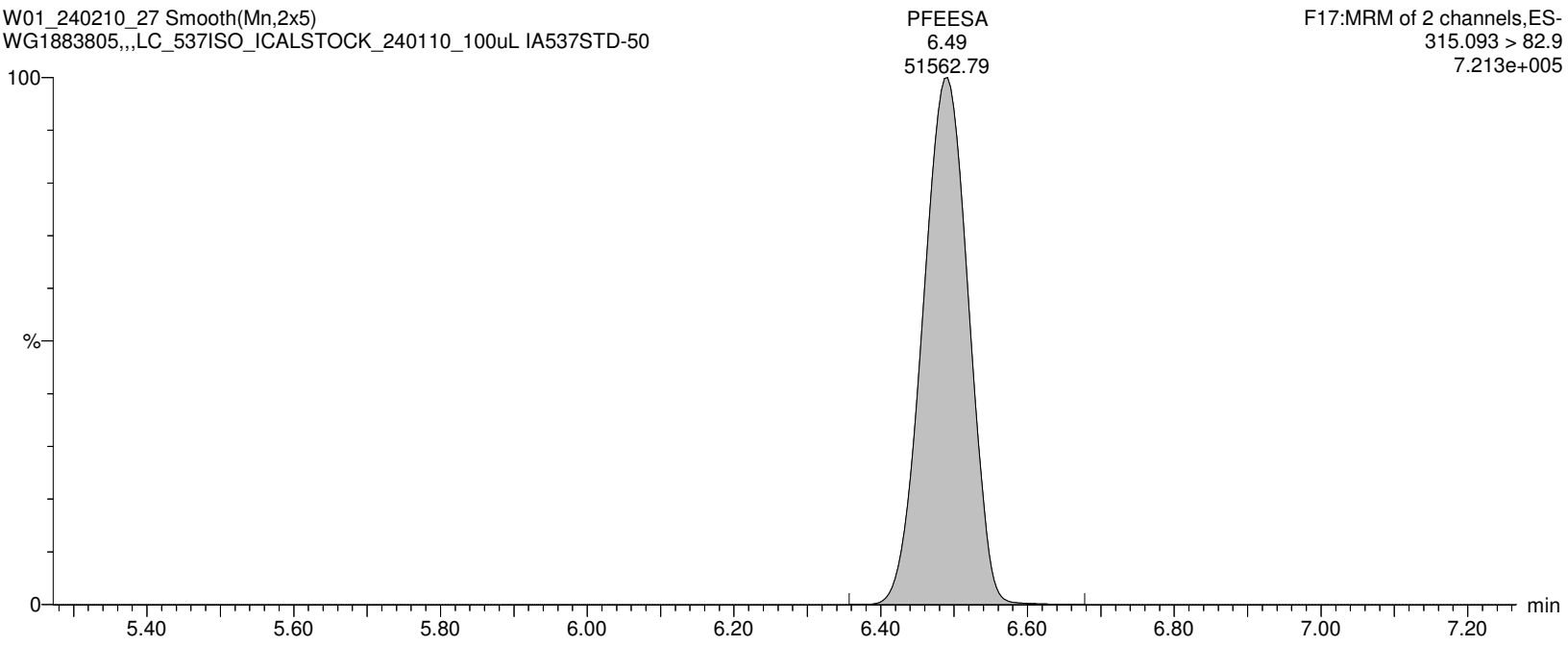

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:21 Eastern Standard Time

Name: W01_240210_27
ID: IA537STD-50
Date: 10-Feb-2024
Time: 17:52:55
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User: LCMS01:SG
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEA0276
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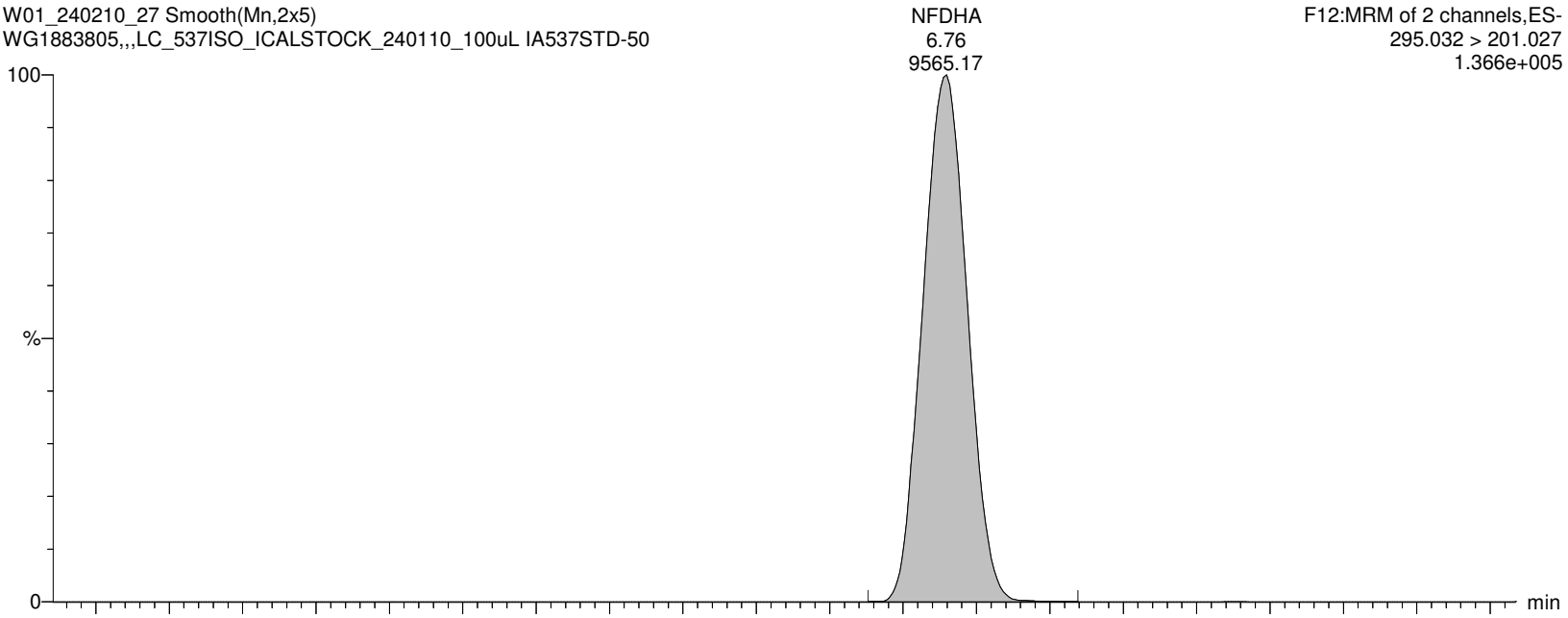

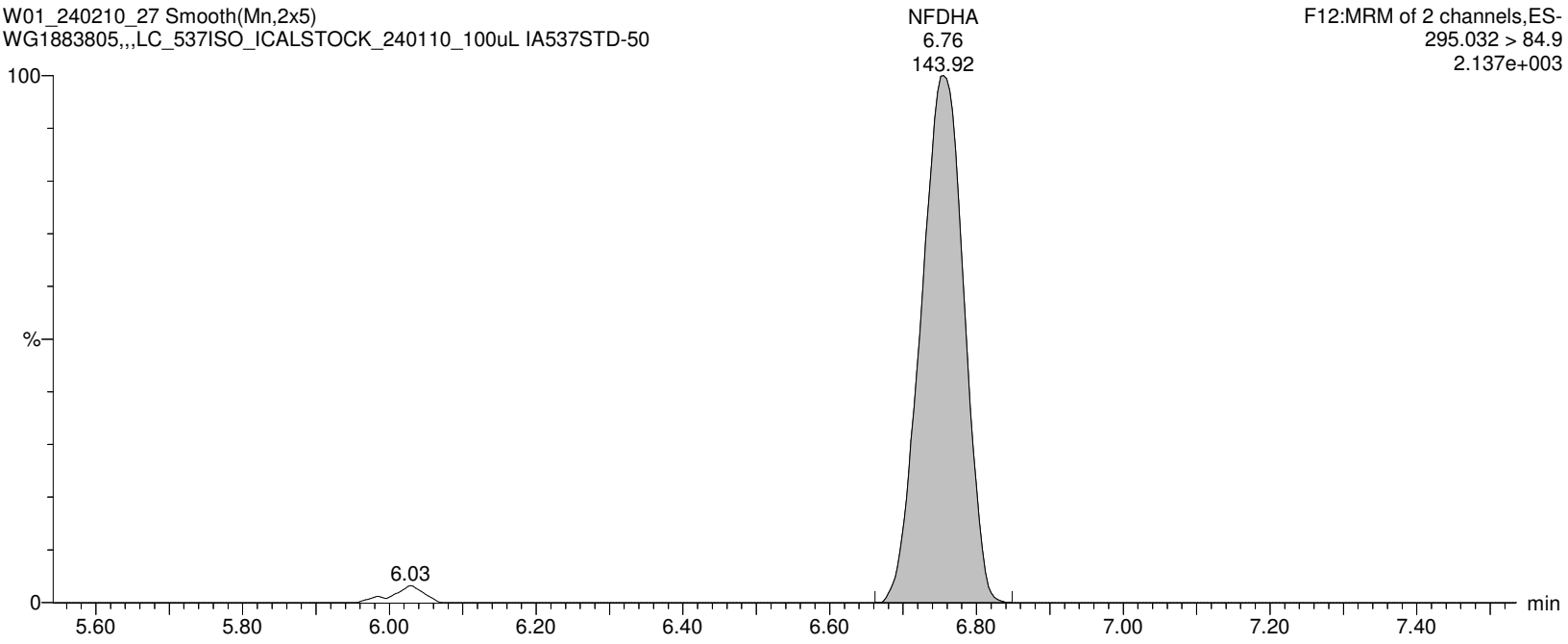

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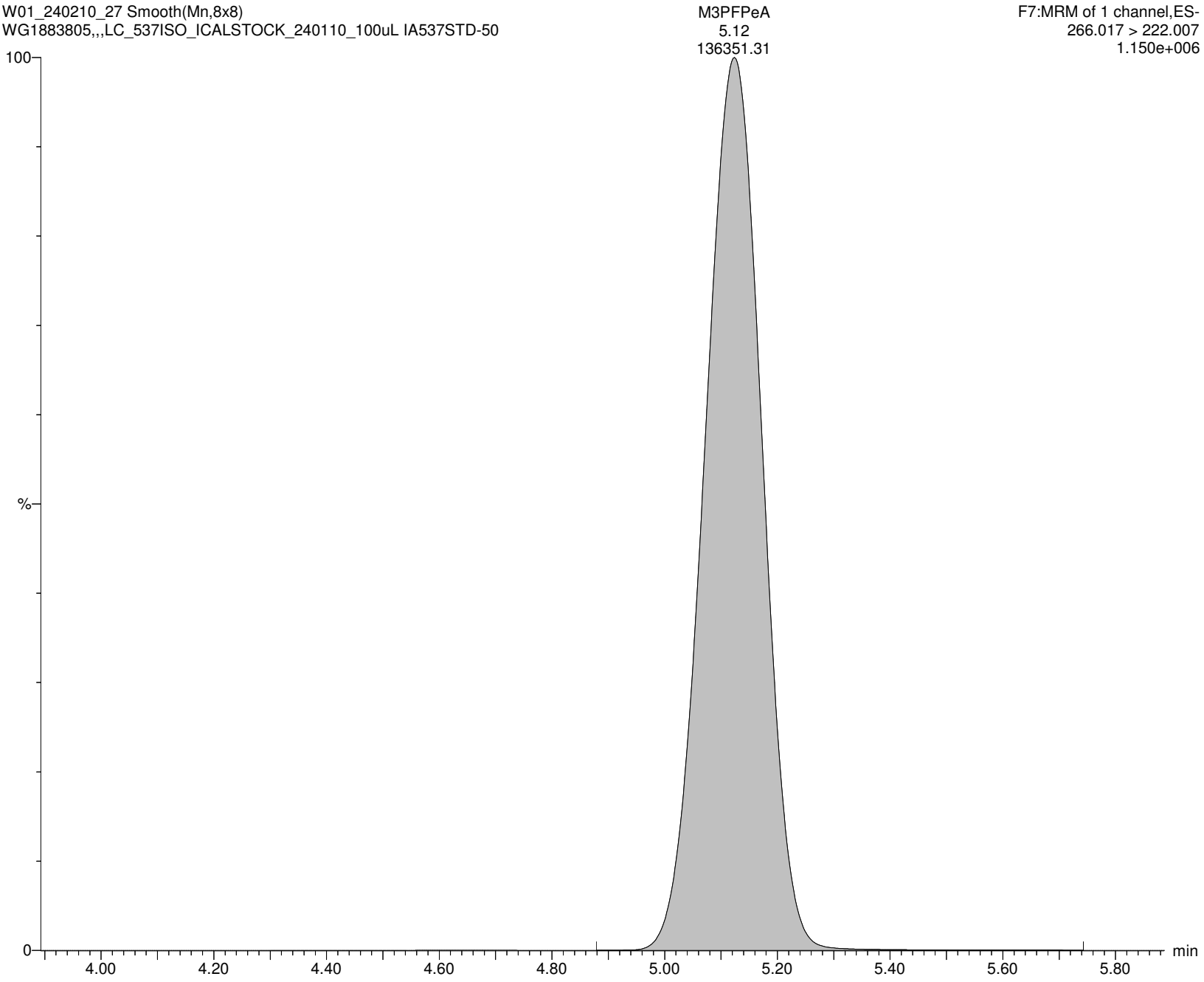

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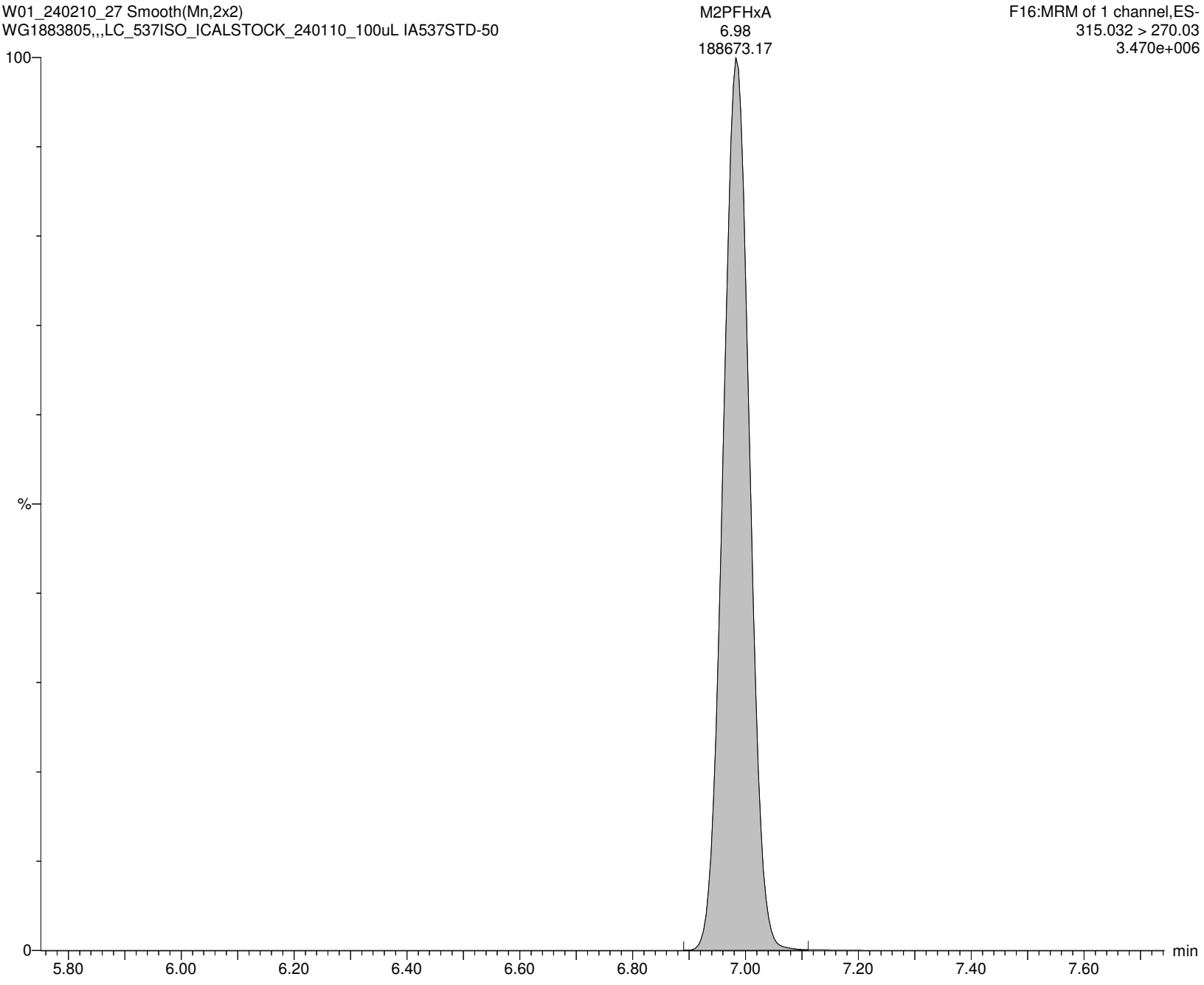

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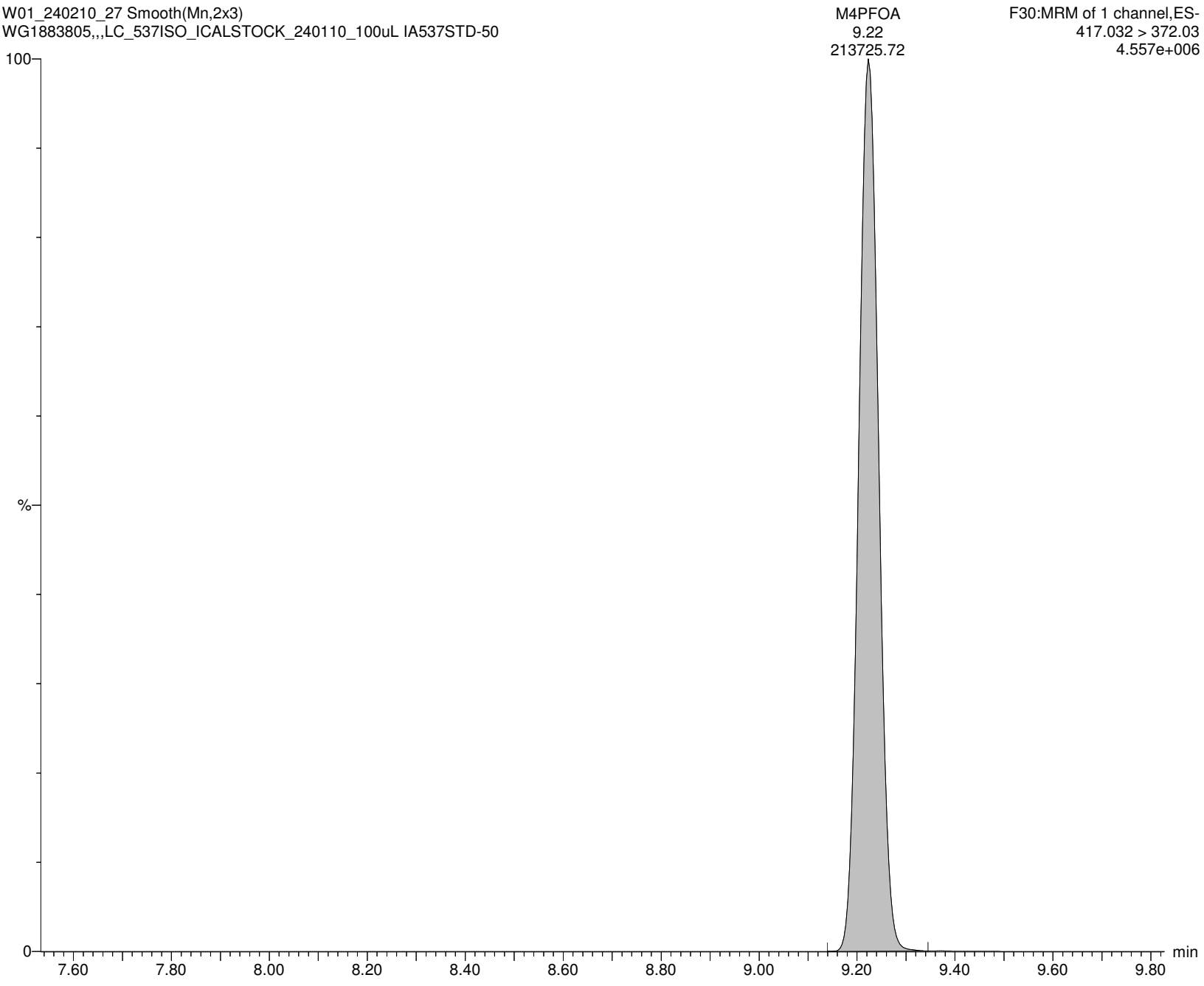

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Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240211_RT.mdb 12 Feb 2024 15:21:47
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ID: IA537STD-100
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	791498		105.491		na	105.5
2	M3PFBA	INT STD	2.23	216.009 > 171.999	74051		9.655		na	96.6
3	MPFBA	INT STD	2.24	217.001 > 171.999	82834		9.831		na	98.3
4	PFPeA	2706-90-3	5.12	263.039 > 219.03	897315		104.658		na	104.7
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	84812		9.640		na	96.4
6	PFBS	375-73-5	5.75	299.092 > 80.062	293480		93.135	1.81	NO	105.0
7	M3PFBS	INT STD	5.75	302.069 > 80.062	28440		9.452		na	101.4
8	4:2FTS	757124-72-4	6.90	327.146 > 307.139	92316		ND	2.04	NO	
9	M2-4:2FTS	INT STD	6.90	329.13 > 309.124	13626		15.367		na	163.8
10	PFHxA	307-24-4	6.98	313.047 > 269.037	1183032		104.637	14.51	NO	104.6
11	M5PFHxA	INT STD	6.98	318.009 > 273.007	119057		10.080		na	100.8
12	PFPeS	2706-91-4	7.29	349.1 > 80.062	282369		97.716	1.50	NO	103.8
13	PFHpA	375-85-9	8.23	363.055 > 319.045	1299014		105.467	4.40	NO	105.5
14	M4PFHpA	INT STD	8.23	367.025 > 322.022	122576		9.754		na	97.5
15	br-PFHxS	355-46-4	8.16	399.107 > 80.062	57969	M5,M7	18.132	1.80	NO	104.8
16	L-PFHxS	355-46-4	8.38	399.107 > 80.062	218936		77.584	1.47	NO	104.7
17	PFHxS	355-46-4		399.107 > 80.062	276905		95.716		na	
18	M3PFHxS	INT STD	8.38	402.084 > 80.062	25713		8.884		na	93.7
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.17	413.063 > 369.053	1440704		104.201	11.58	NO	104.2
21	PFOA	335-67-1		413.063 > 369.053	1440704		104.201		na	
22	M8PFOA	INT STD	9.17	421.002 > 376.	134480		9.848		na	98.5
23	M2PFOA	INT STD	9.17	415.048 > 370.045	134914		9.088		na	90.9
24	6:2FTS	27619-97-2	9.13	427.161 > 407.155	84510		96.298	3.39	NO	101.3
25	M2-6:2FTS	INT STD	9.13	429.146 > 409.14	14261		13.999		na	147.2
26	PFHpS	375-92-8	9.27	449.115 > 80.062	306051		105.953	1.56	NO	111.2
27	PFNA	375-95-1	9.95	463.071 > 419.061	1435370		103.803	6.95	NO	103.8
28	M9PFNA	INT STD	9.95	472.002 > 427.	137234		9.674		na	96.7
29	br-PFOS	1763-23-1	9.81	499.123 > 80.062	91049	M5,M7	20.594	3.32	NO	105.1
30	L-PFOS	1763-23-1	10.00	499.123 > 80.062	256788		76.143	1.58	NO	104.0
31	PFOS	1763-23-1		499.123 > 80.062	347837		96.737		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	31680		8.554		na	89.1
33	M8PFOS	INT STD	10.00	507.062 > 80.062	31216		9.236		na	96.3
34	PFDA	335-76-2	10.60	513.078 > 469.069	1119600		105.258	4.90	NO	105.3
35	M2PFDA	INT STD	10.60	515.063 > 470.061	115040		8.575		na	85.7
36	M6PFDA	INT STD	10.60	519.033 > 474.03	109287		9.529		na	95.3
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	76125		96.012	2.79	NO	100.0
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	13487		12.521		na	130.4
39	PFNS	68259-12-1	10.63	549.131 > 80.062	317556		100.241	2.01	NO	104.2

all concentration units in (ng/mL)

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ID: IA537STD-100
Name: W01_240210_28
Date: 10-Feb-2024
Time: 18:09:26
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_200uL
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	21642		12.285		na	122.9
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	15137	M5,M7	22.976	1.17	NO	95.7
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	111713		73.545	2.29	NO	96.8
43	NMeFOSAA	2355-31-9		570.202 > 419.061	126849		96.521		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	1178736		101.076	6.42	NO	101.1
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	117644		9.414		na	94.1
46	PFDS	335-77-3	11.17	598.926 > 80.062	279390		98.044	1.75	NO	101.6
47	FOSA	754-91-6	10.94	498.146 > 78.07	969787		101.295	37.17	NO	101.3
48	M8FOSA	INT STD	10.94	506.077 > 78.07	90446		10.724		na	107.2
49	d5-NEtFOSAA	INT STD	11.27	589.259 > 419.061	18875		11.368		na	113.7
50	br-NEtFOSAA	2991-50-6	11.13	584.229 > 419.061	14886	M5,M7	22.209	0.77	NO	98.7
51	L-NEtFOSAA	2991-50-6	11.28	584.229 > 419.061	109250		77.482	1.40	NO	100.0
52	NEtFOSAA	2991-50-6		584.229 > 419.061	124135		99.691		na	
53	PFDoA	307-55-1	11.66	613.094 > 569.084	1458225		101.569	7.35	NO	101.6
54	MPFDOA	INT STD	11.66	615.079 > 570.077	142443		10.156		na	101.6
55	PFTrDA	72629-94-8	12.09	663.102 > 619.092	927299		97.214	9.34	NO	97.2
56	PFTA	376-06-7	12.45	713.11 > 669.1	1395106		100.887	15.52	NO	100.9
57	M2PFTEDA	INT STD	12.45	715.094 > 670.092	130875		10.347		na	103.5
58	M3HFPO-DA	INT STD	7.40	287.02 > 169.022	120767		157.575		na	78.8
59	HFPO-DA	13252-13-6	7.40	285.035 > 169.022	424807		1042.619	11.82	YES	104.3
60	ADONA	958445-44-8	8.40	377.06 > 251.028	1490581		99.136	90.17	NO	104.9
61	PFHxDA		12.84	813.122 > 769.116	2236173		105.814	51.89	NO	105.8
62	PFODA		13.06	913.411 > 869.131	732095		93.121	101.84	NO	93.1
63	M2PFHxDA		12.84	815.102 > 770.108	193276		9.865		na	98.7
64	PFDoS		12.07	699.154 > 80.062	275821		99.645	1.50	NO	102.9
65	M2D4-10:2FTS		11.67	633.201 > 612.189	8084		17.433		na	88.9
66	10:2FTS		11.67	627.192 > 607.186	65985	M4,M7	104.495	3.15	NO	108.2
67	9CL-PF3ONS		10.36	531.096 > 351.07	771658		98.632	2.38	NO	105.7
68	11CL-PFOUdS		11.44	631.096 > 451.076	731791		97.351	2.92	NO	103.2
69	NMeFOSA		11.57	512.163 > 169.022	1303163		527.421	1.56	NO	105.5
70	d3-NMeFOSA		11.56	515.183 > 169.022	238589		100.252		na	100.3
71	NEtFOSA		11.88	526.192 > 169.022	1333932		528.929	8.62	NO	105.8
72	d5-NEtFOSA		11.87	531.222 > 169.022	242516		101.048		na	101.0
73	NMeFOSE		11.57	616 > 59	719150		241.753		na	96.7
74	d7-NMeFOSE		11.55	623 > 59	265769		101.747		na	101.7
75	NEtFOSE		11.86	630 > 59	671790		246.931		na	98.8
76	d9-NEtFOSE		11.85	639 > 59	313009		110.064		na	110.1
77	PFPrS		3.60	249.084 > 80.062	328732		95.071	3.06	NO	103.3
78	PFMPA		3.59	229.032 > 85.005	576750		100.506		na	100.5
79	PFMBA		5.82	279.042 > 85.006	886081		105.816		na	105.8
80	PFEESA		6.49	315.093 > 135.013	1522440		93.154	16.25	NO	104.7
81	NFDHA		6.76	295.032 > 201.027	15969		97.106	81.75	NO	97.1
82	M3PFPeA		5.12	266.017 > 222.007	133877		10.574		na	105.7

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.98	315.032 > 270.03	184154		11.182		na	111.8
84	M4PFOA		9.17	417.032 > 372.03	203612		10.738		na	107.4

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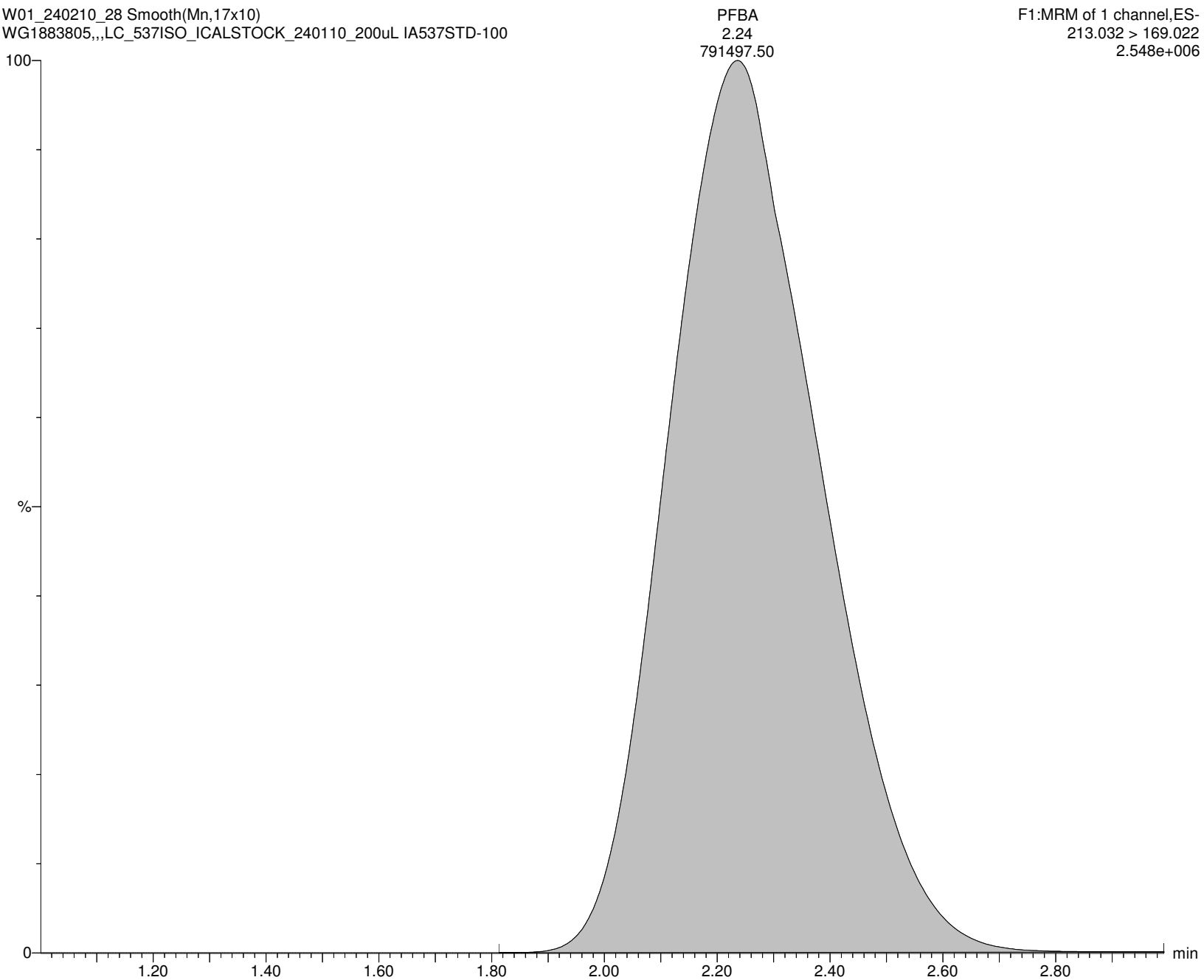
PFBA



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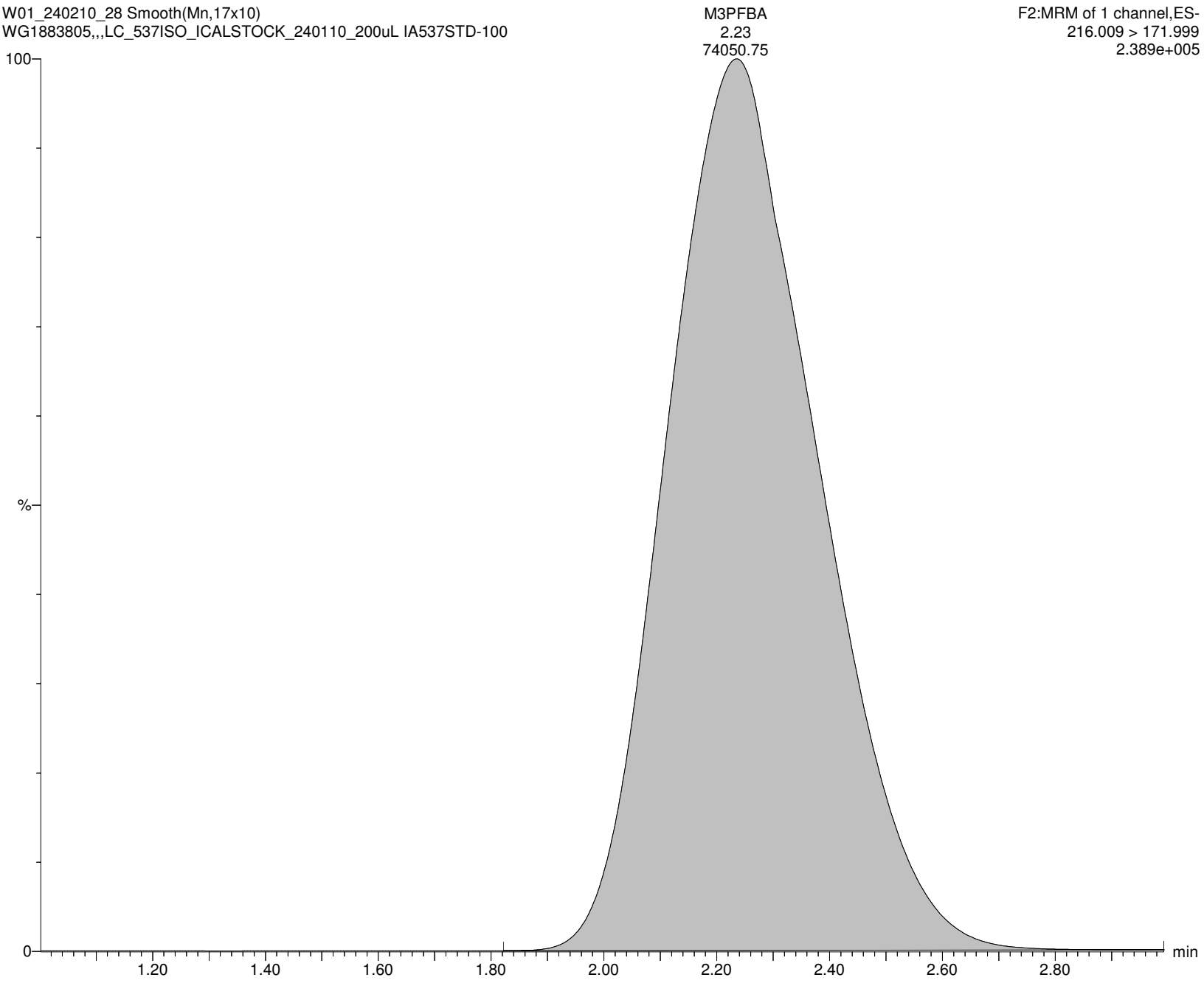
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

Name: W01_240210_28
ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
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User: LCMS01:SG
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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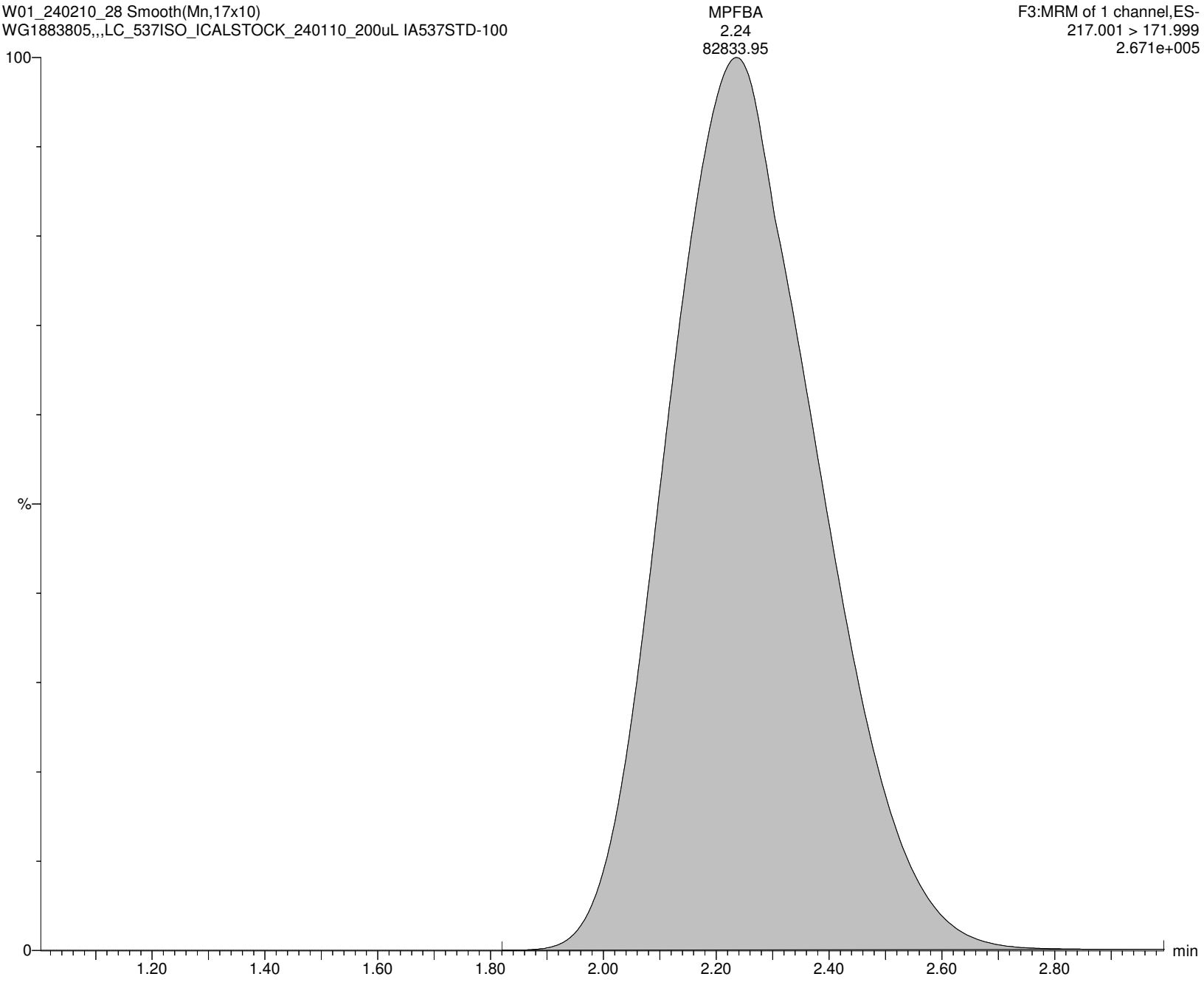

all concentration units in (ng/mL)

Alpha Analytical Inc.
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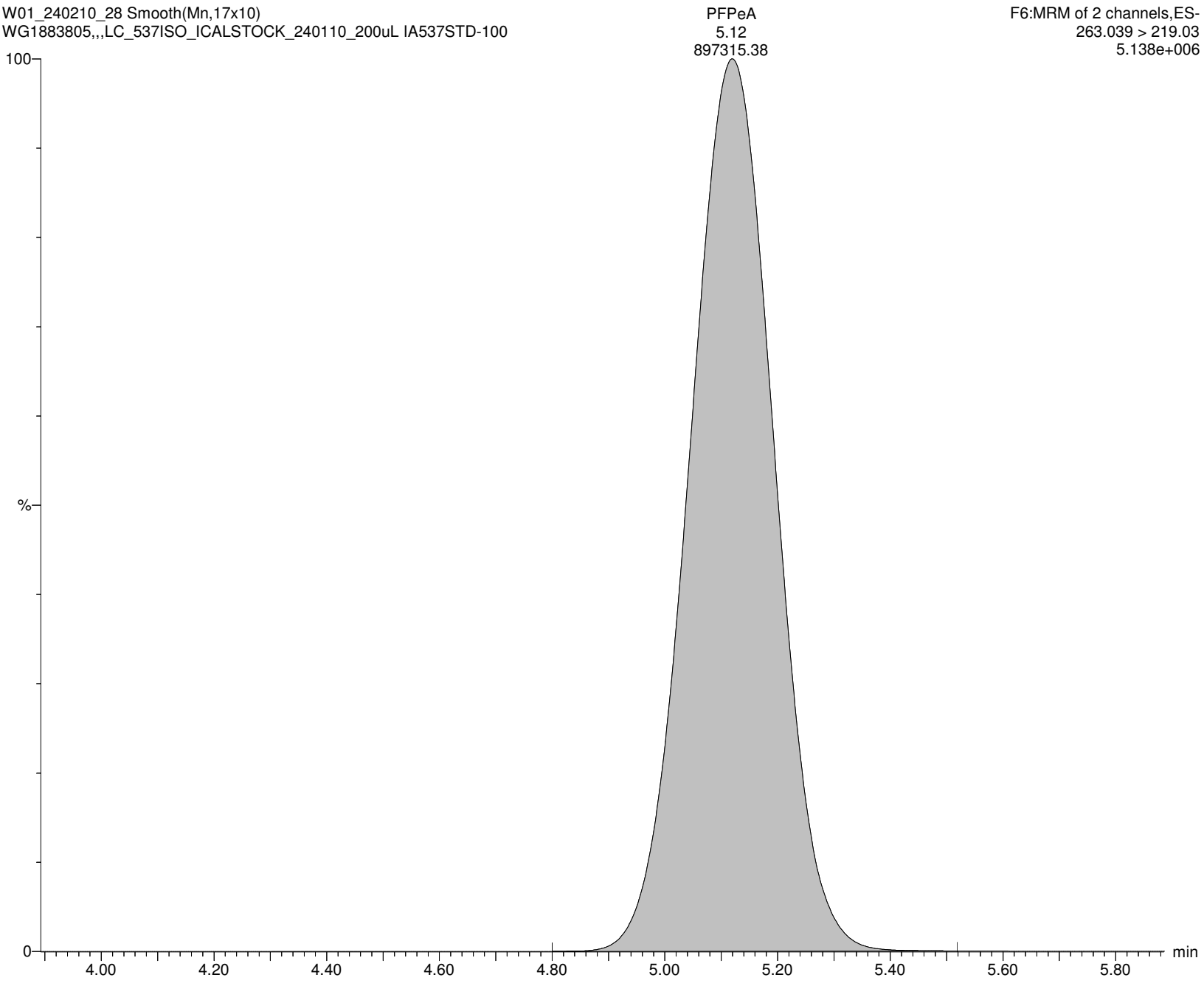

all concentration units in (ng/mL)

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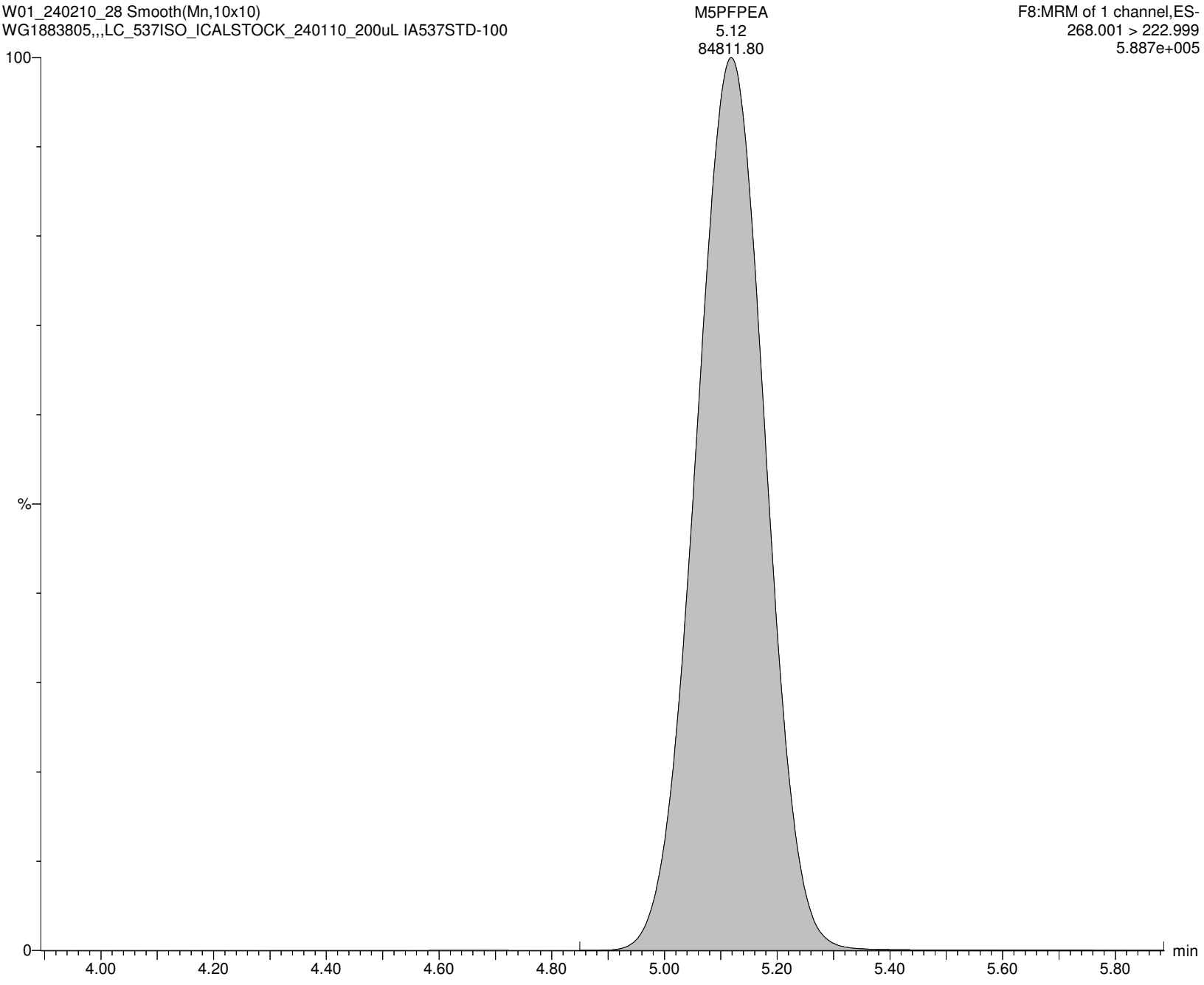

all concentration units in (ng/mL)

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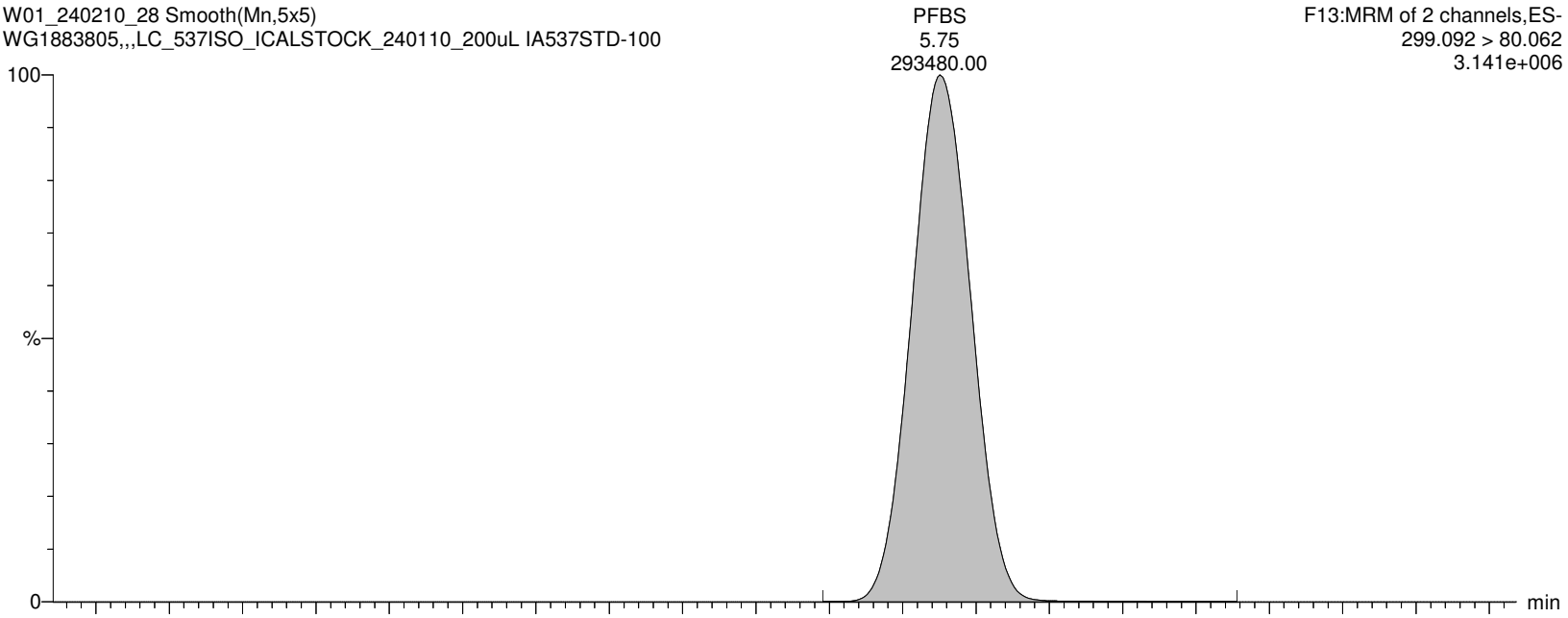

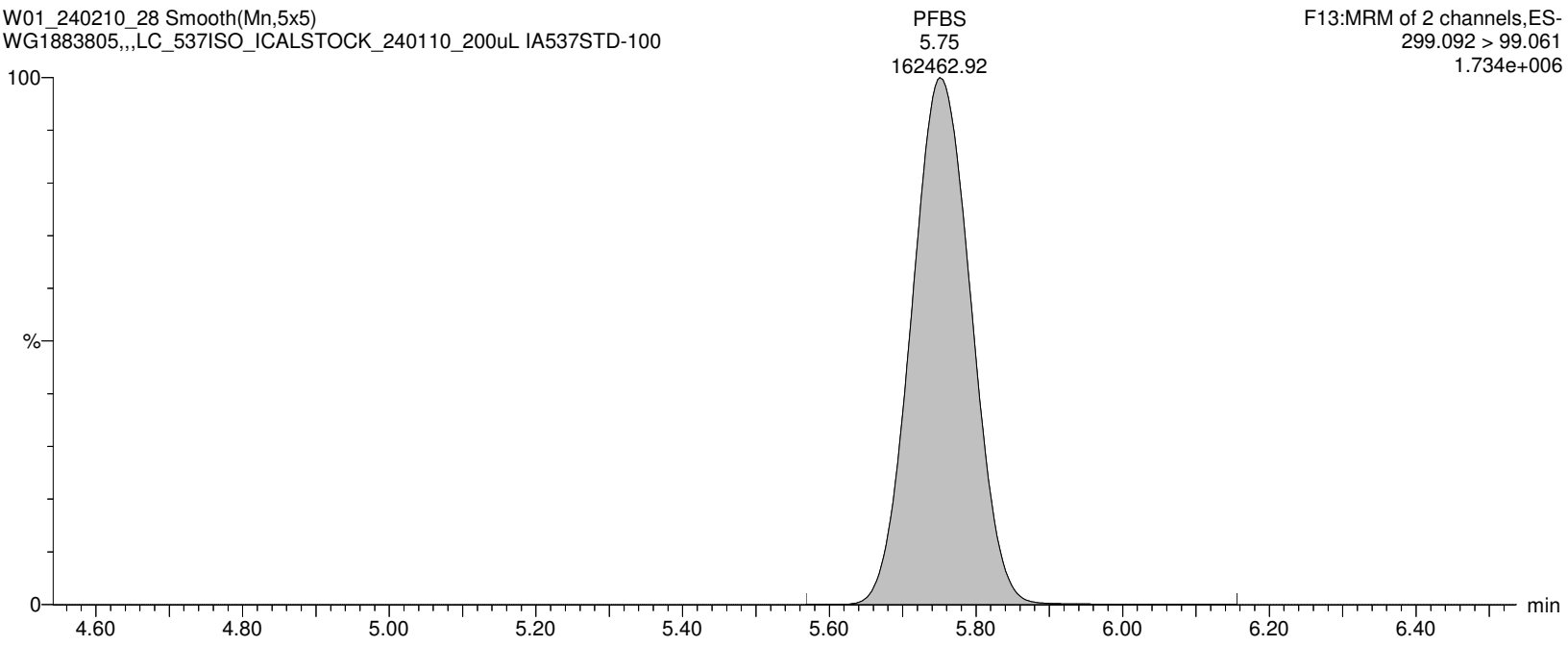

all concentration units in (ng/mL)

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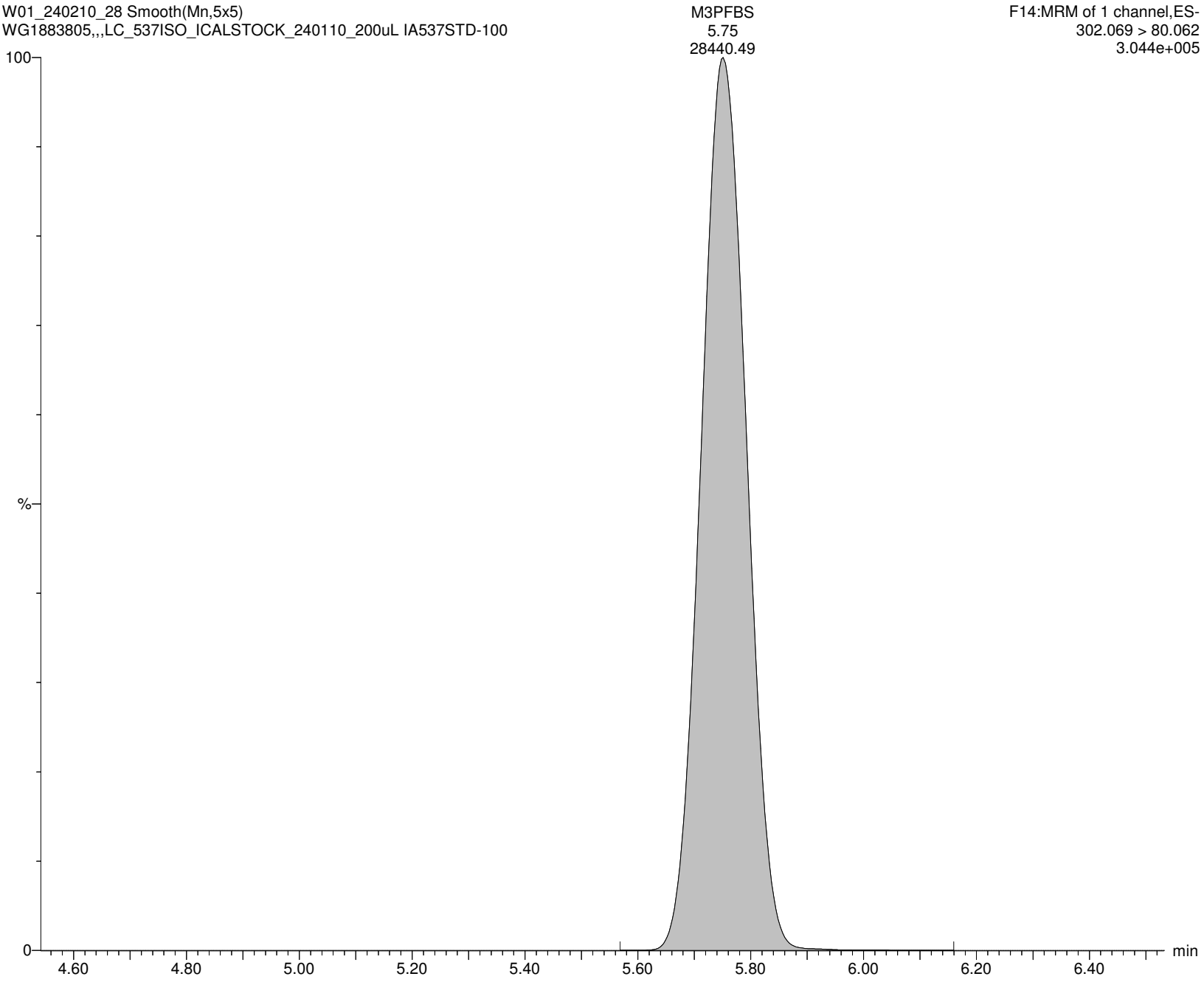

all concentration units in (ng/mL)

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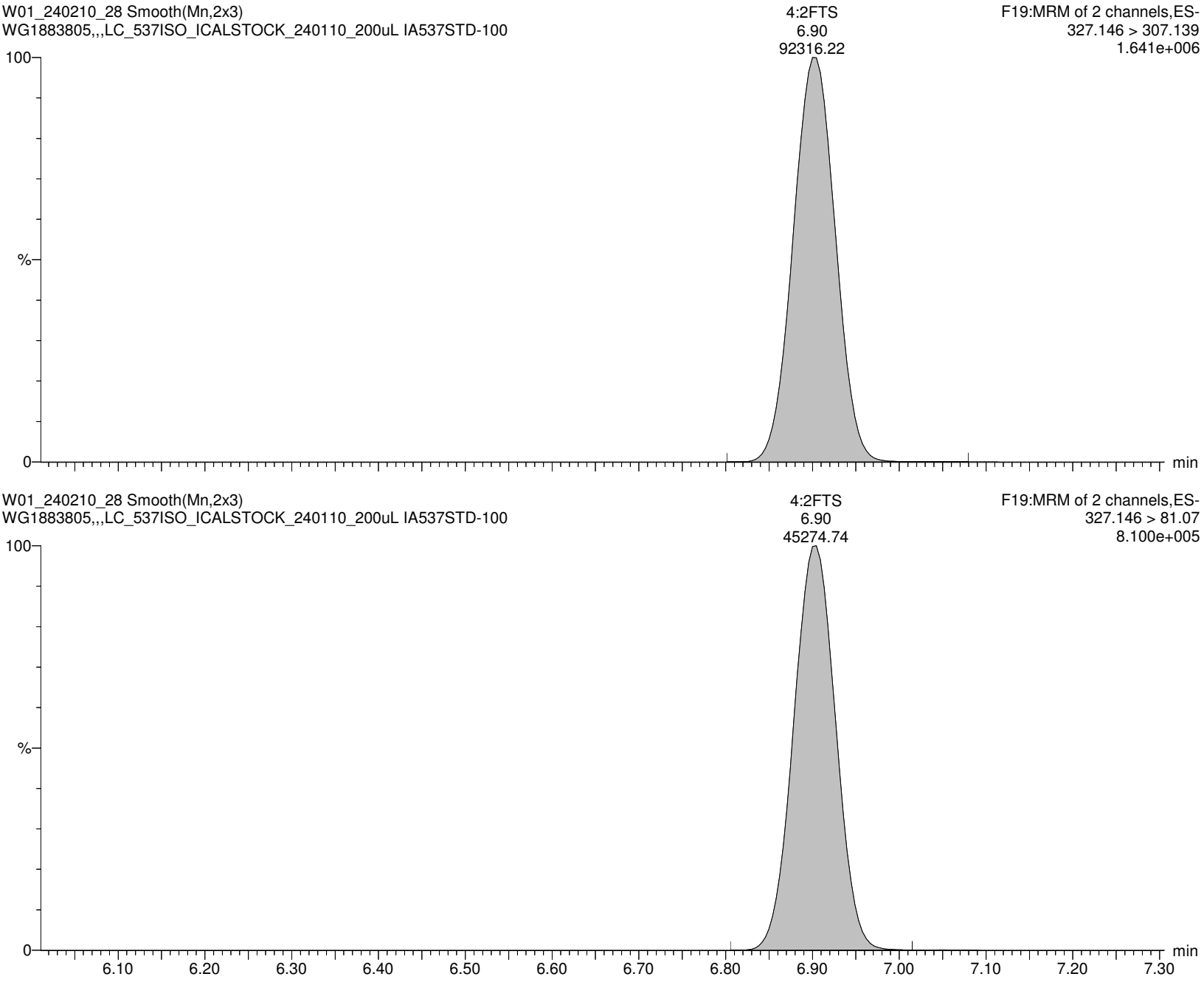

all concentration units in (ng/mL)

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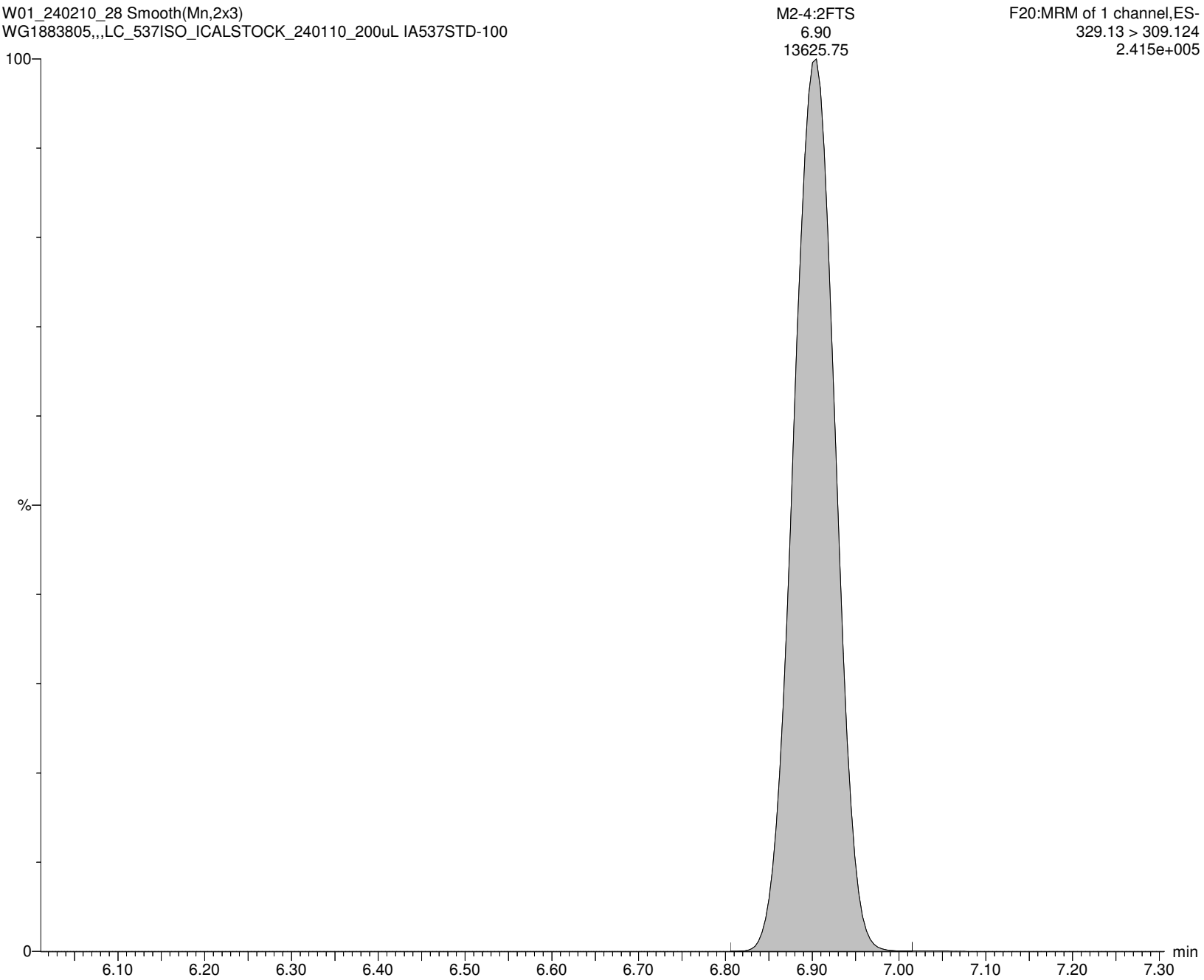

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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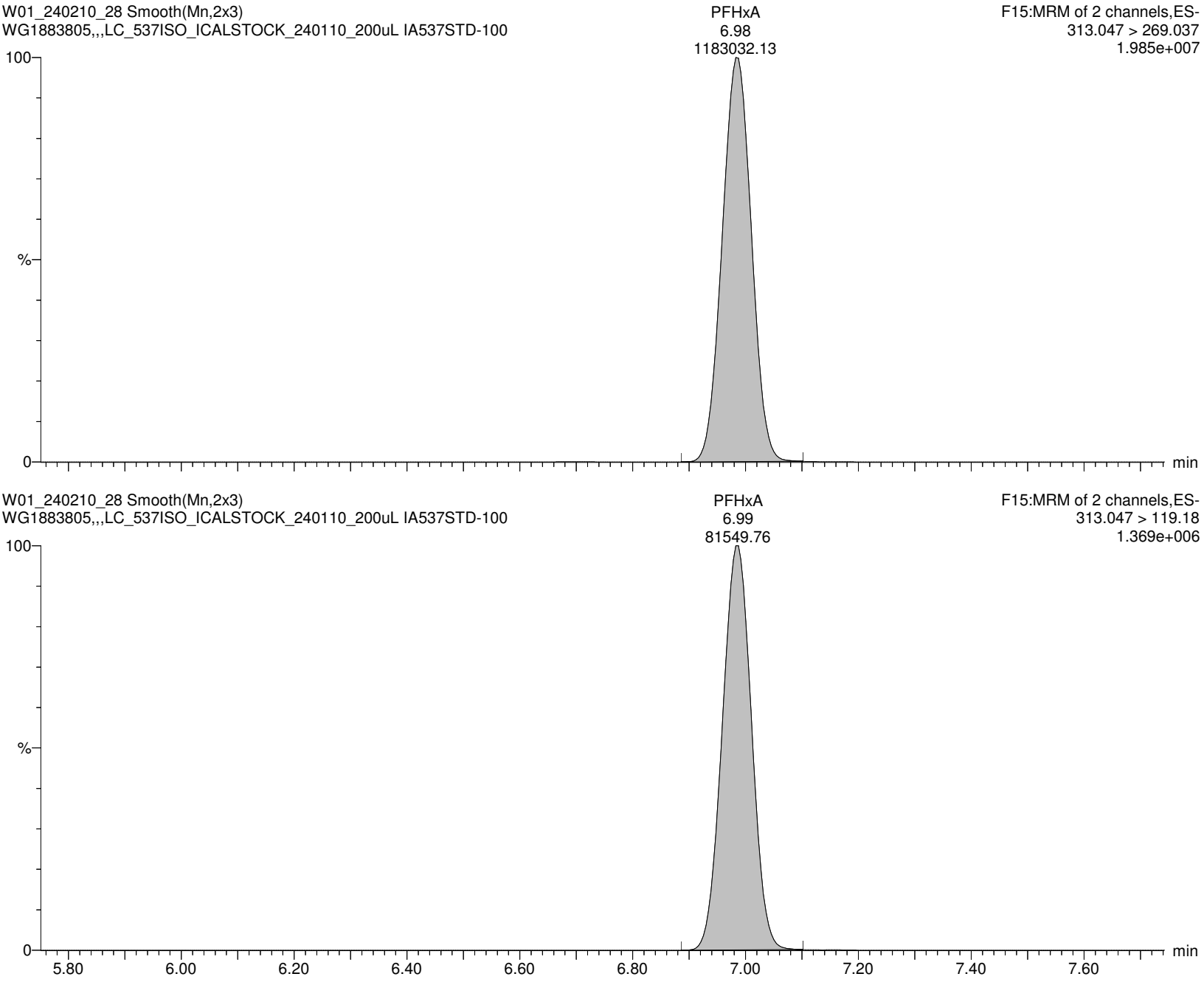

all concentration units in (ng/mL)

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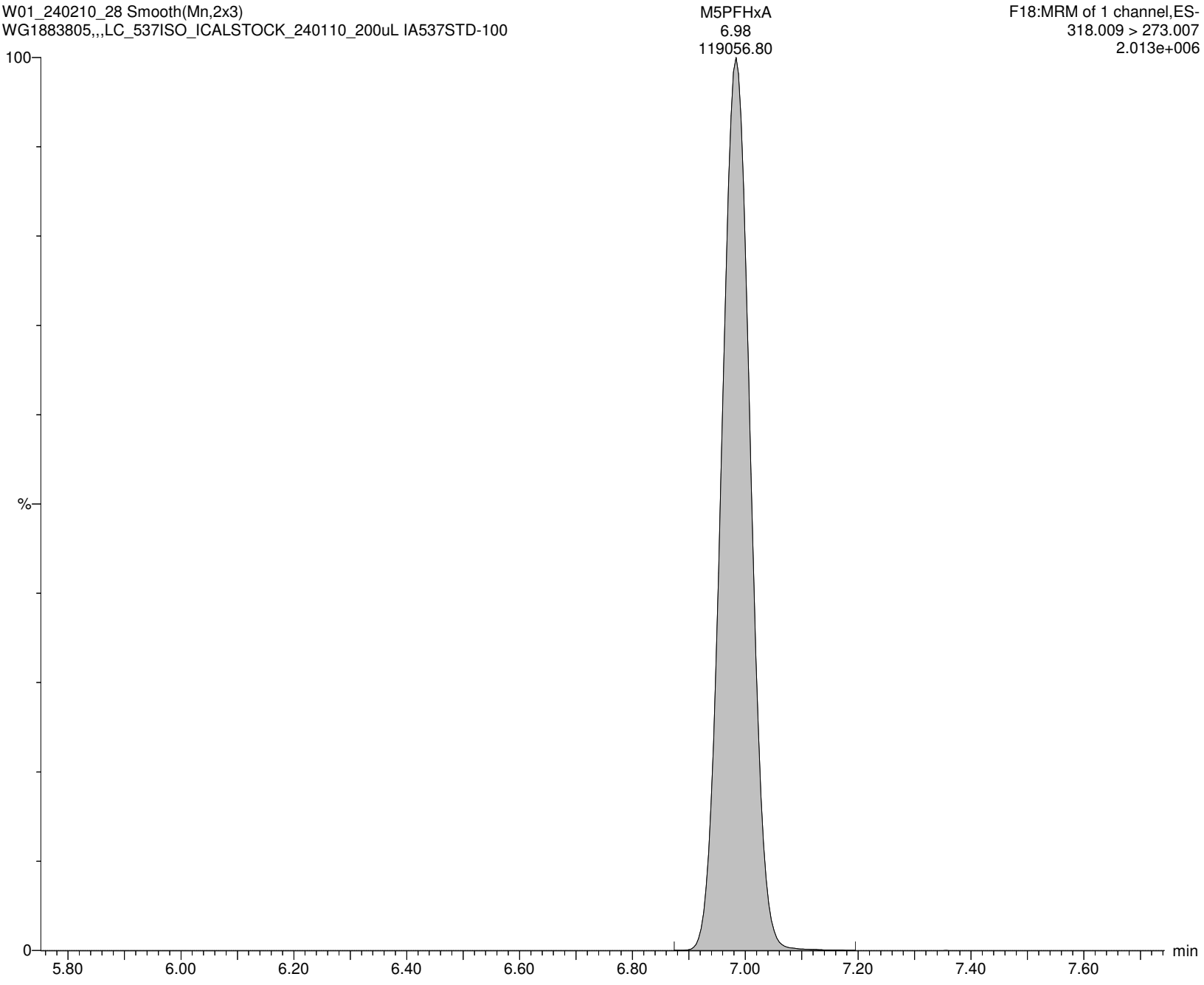

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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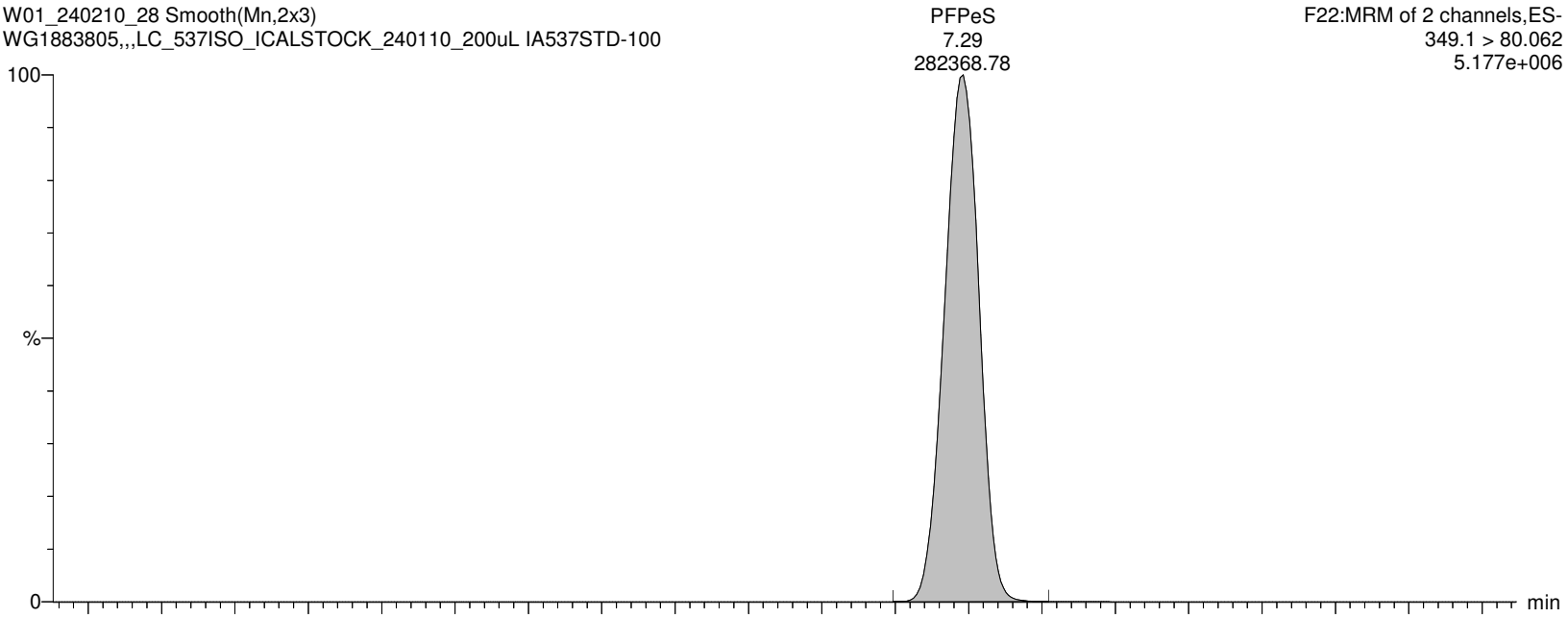

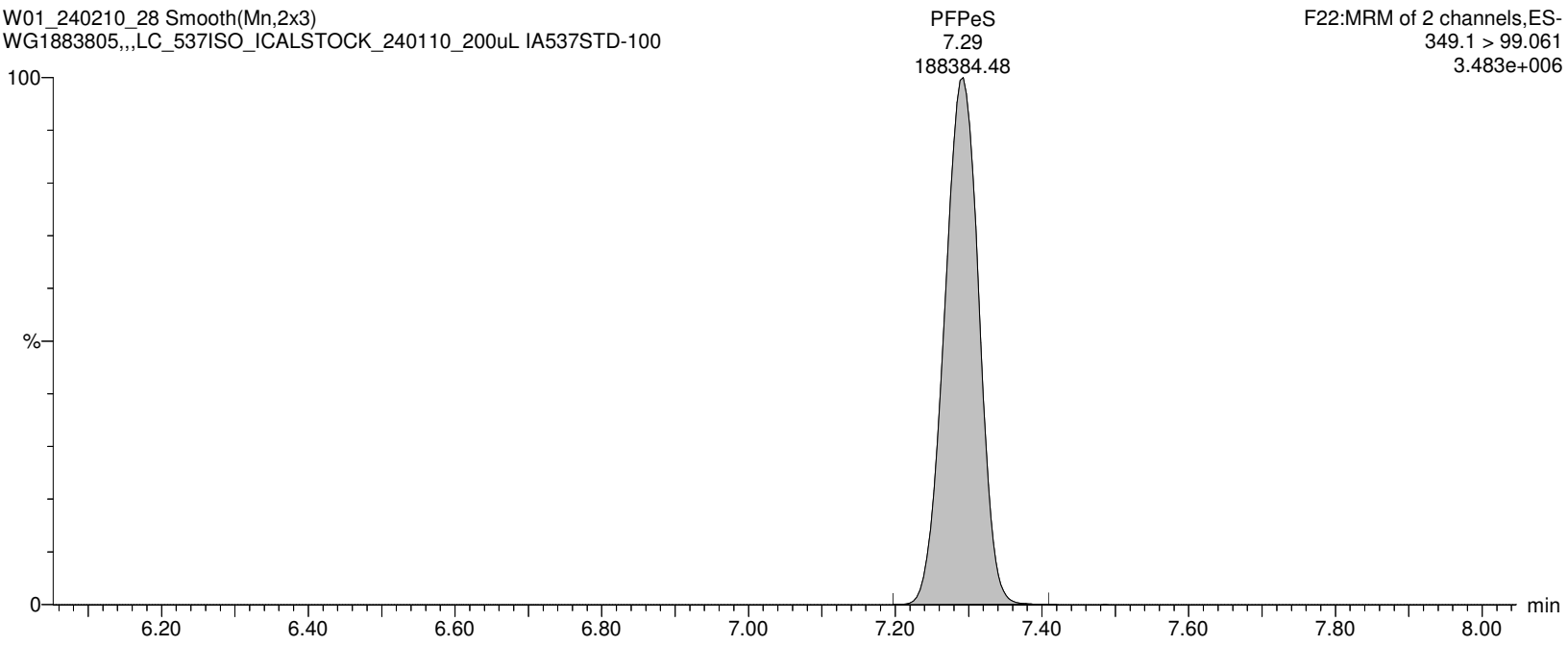

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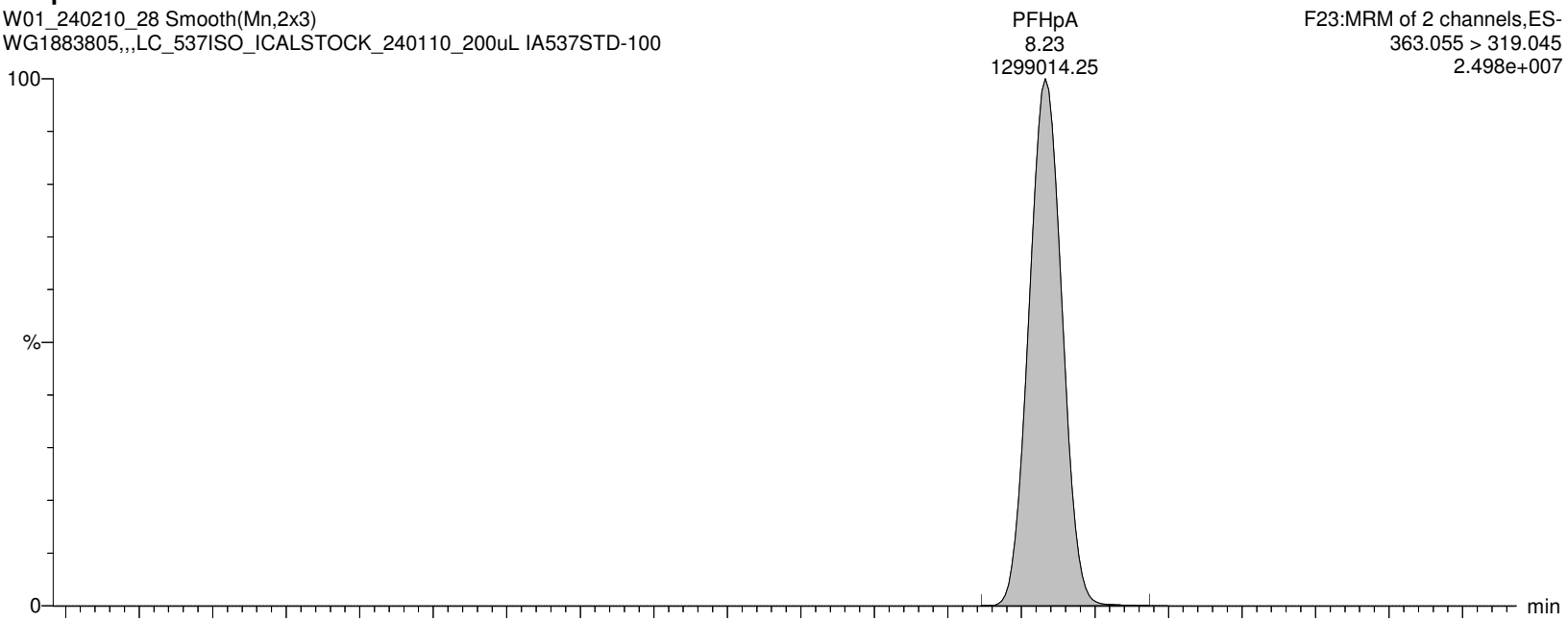

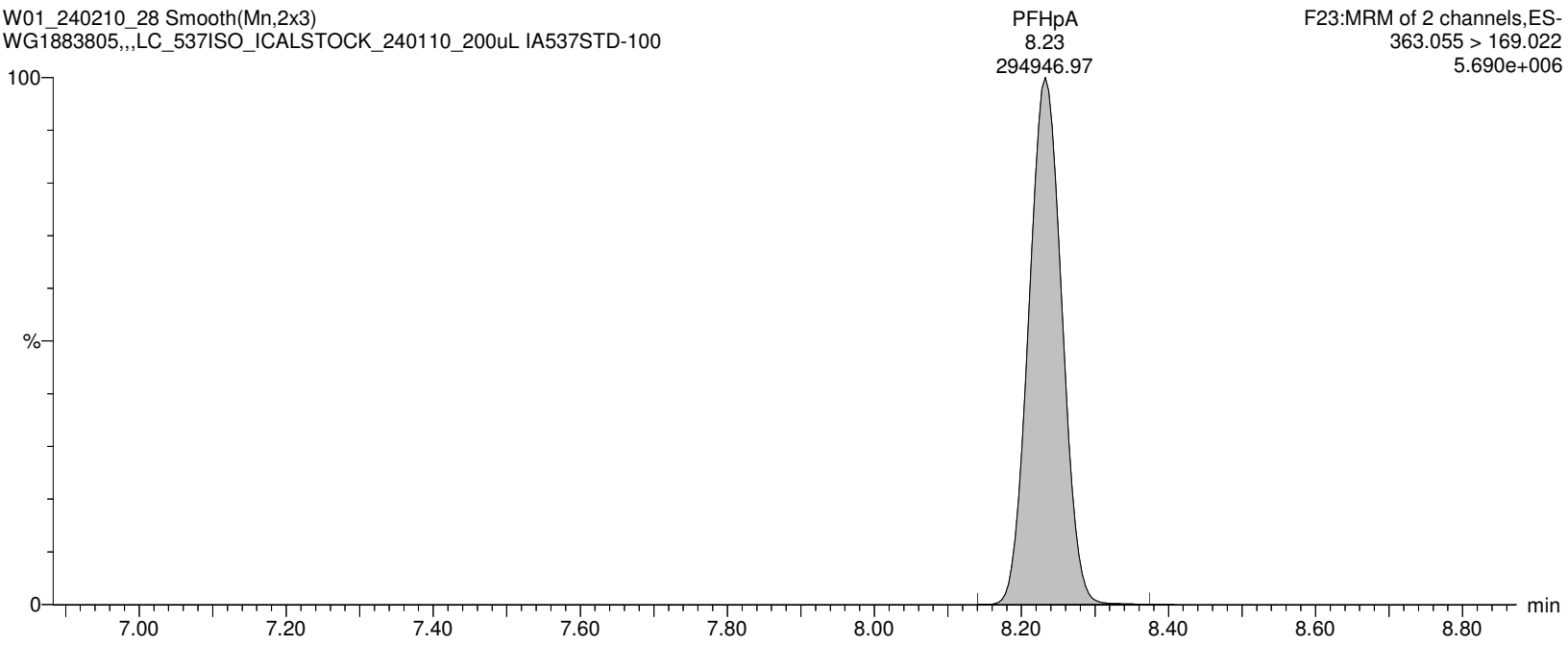

all concentration units in (ng/mL)

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Vial: 1:B,8
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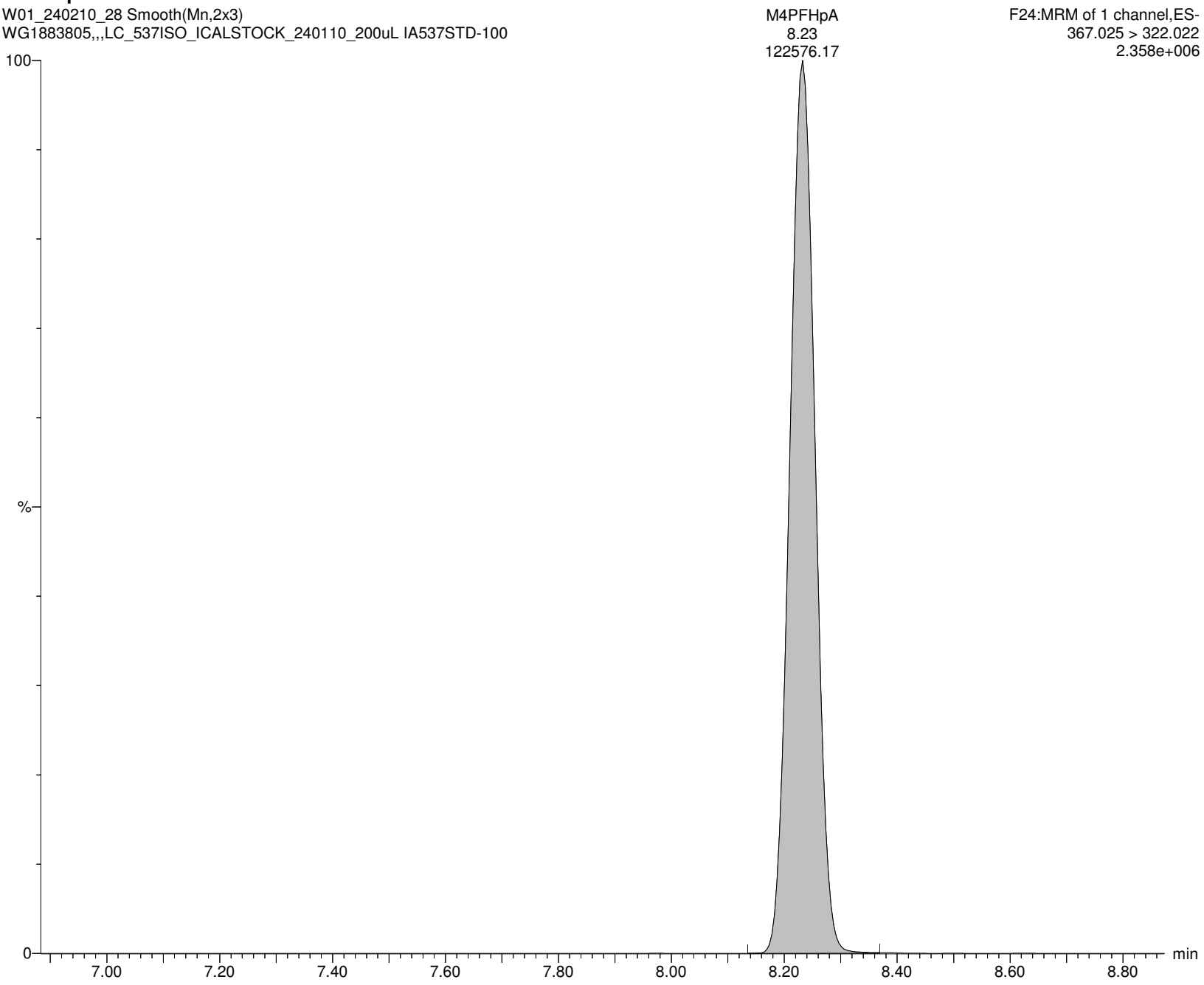

all concentration units in (ng/mL)

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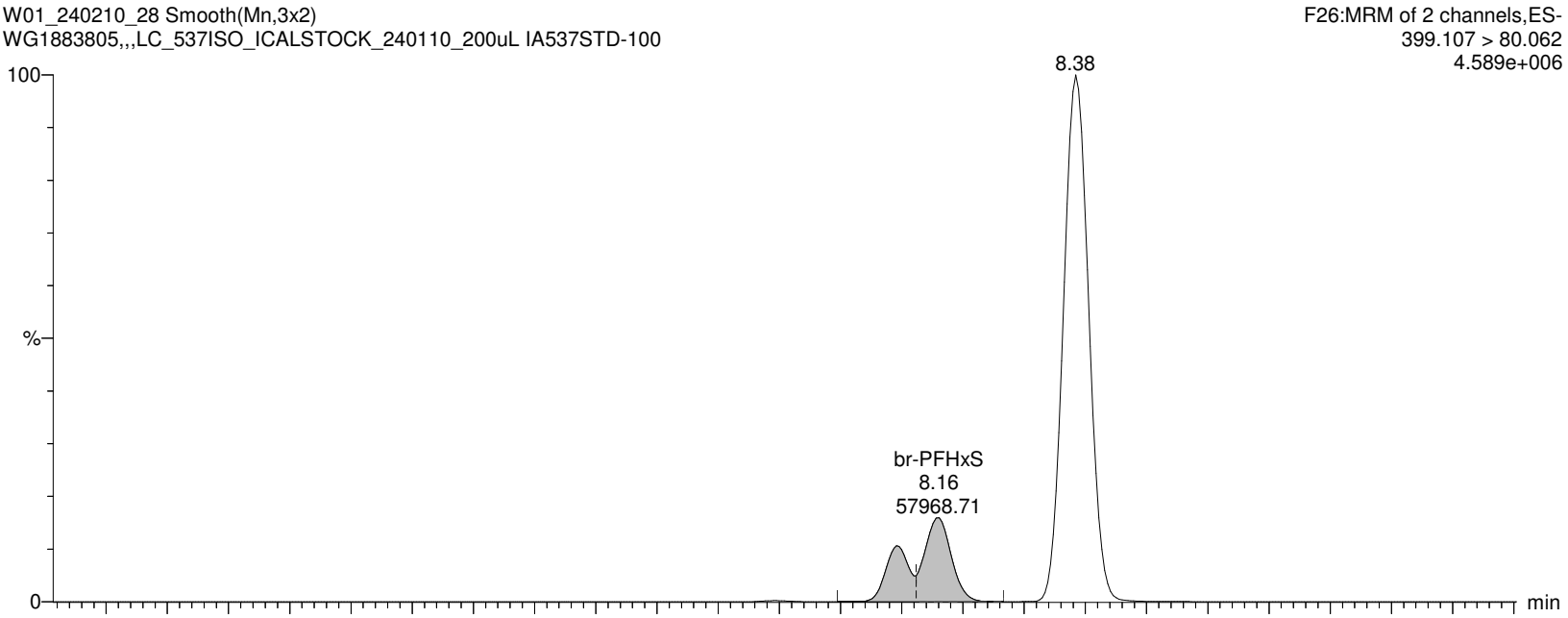

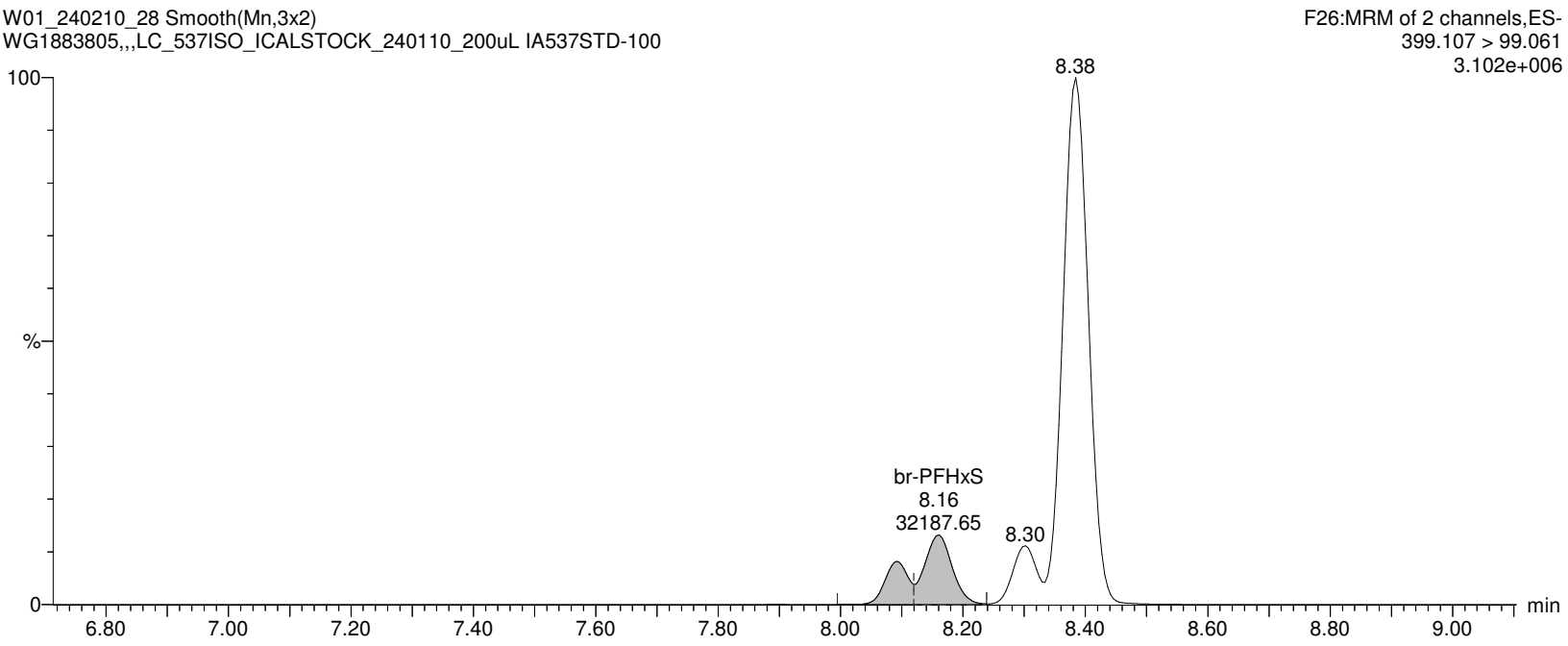

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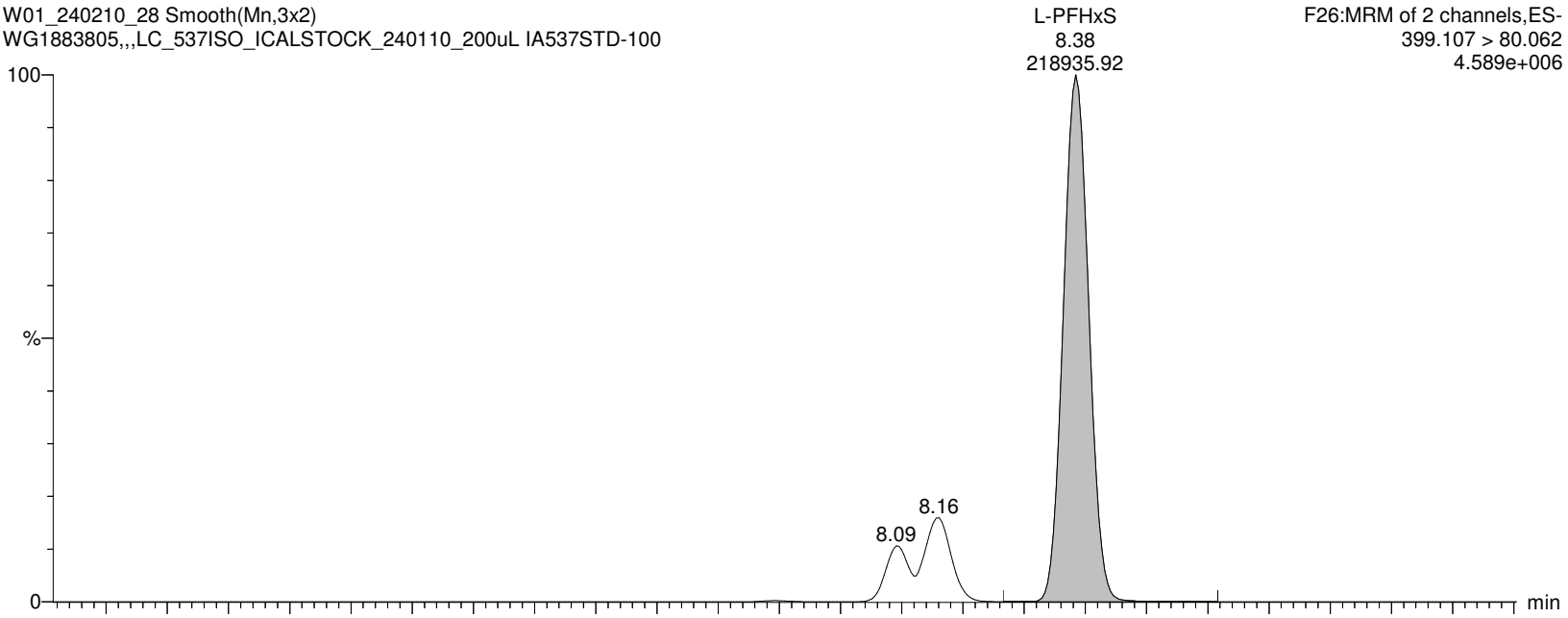
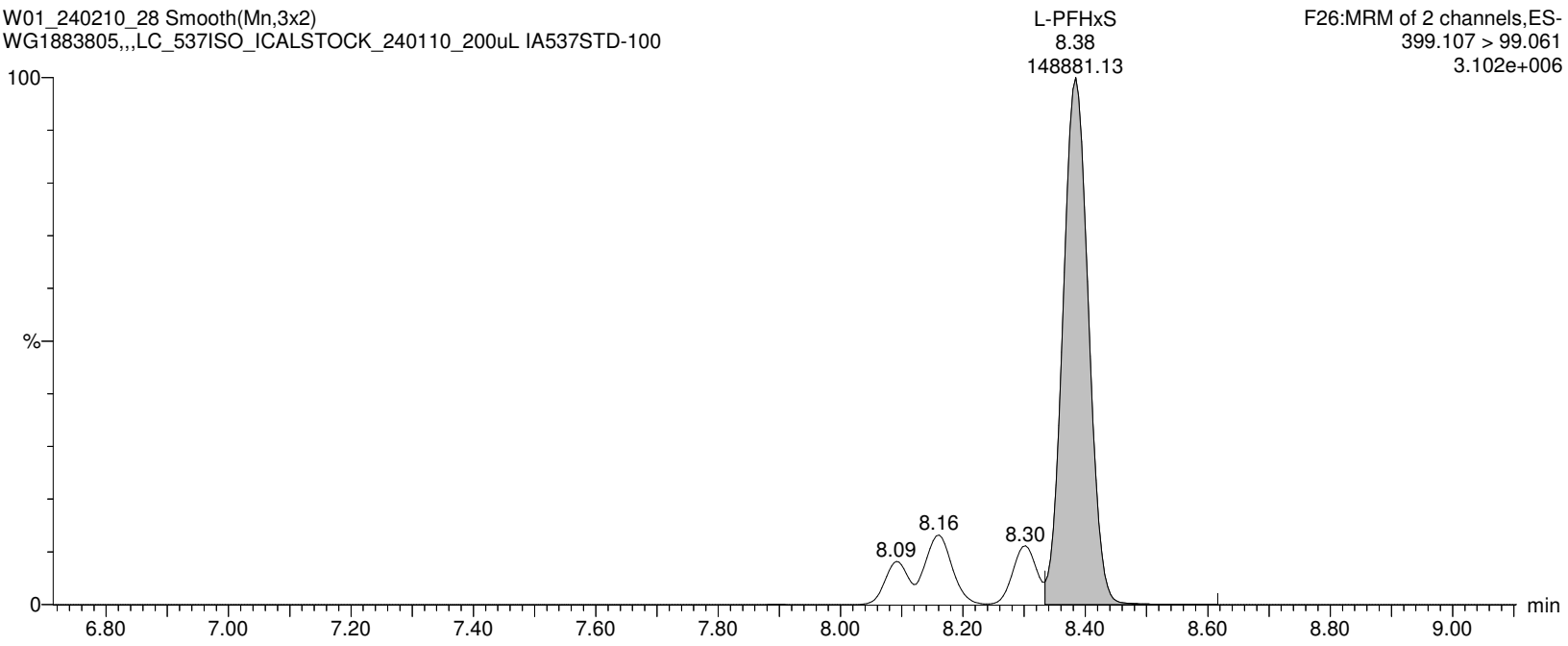
L-PFHxS





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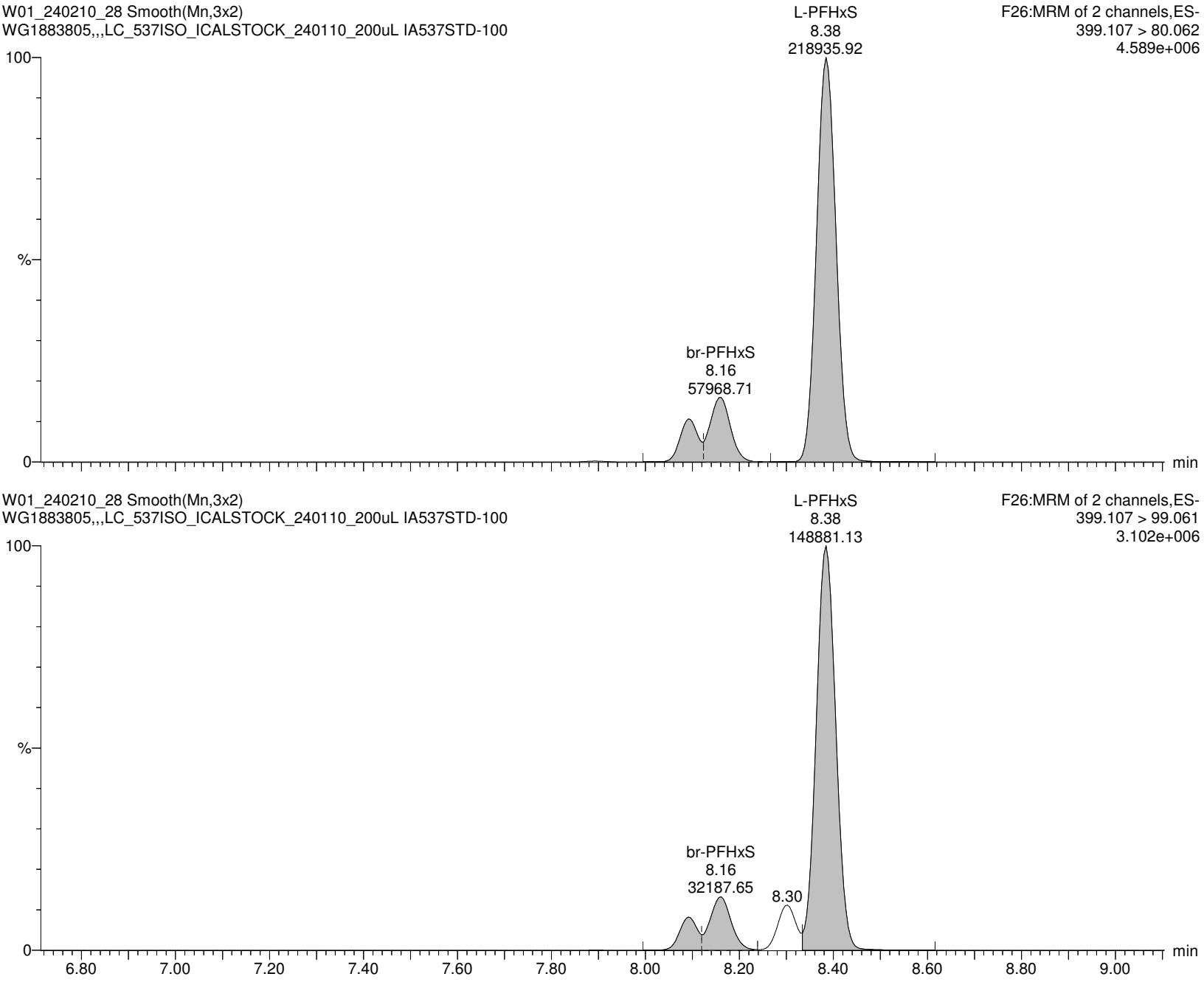
PFHxS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

Name: W01_240210_28
ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
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User: LCMS01:SG
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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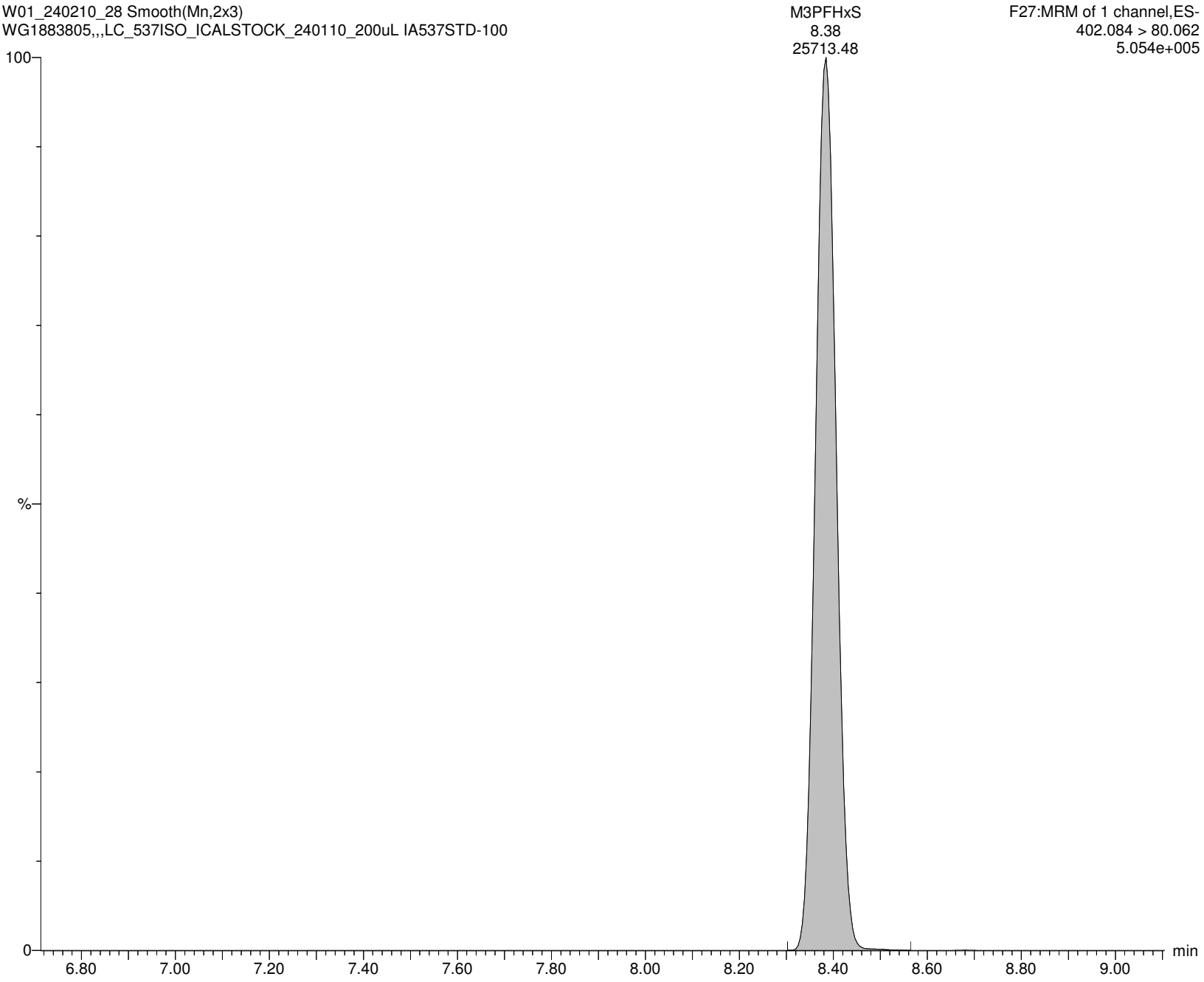

all concentration units in (ng/mL)

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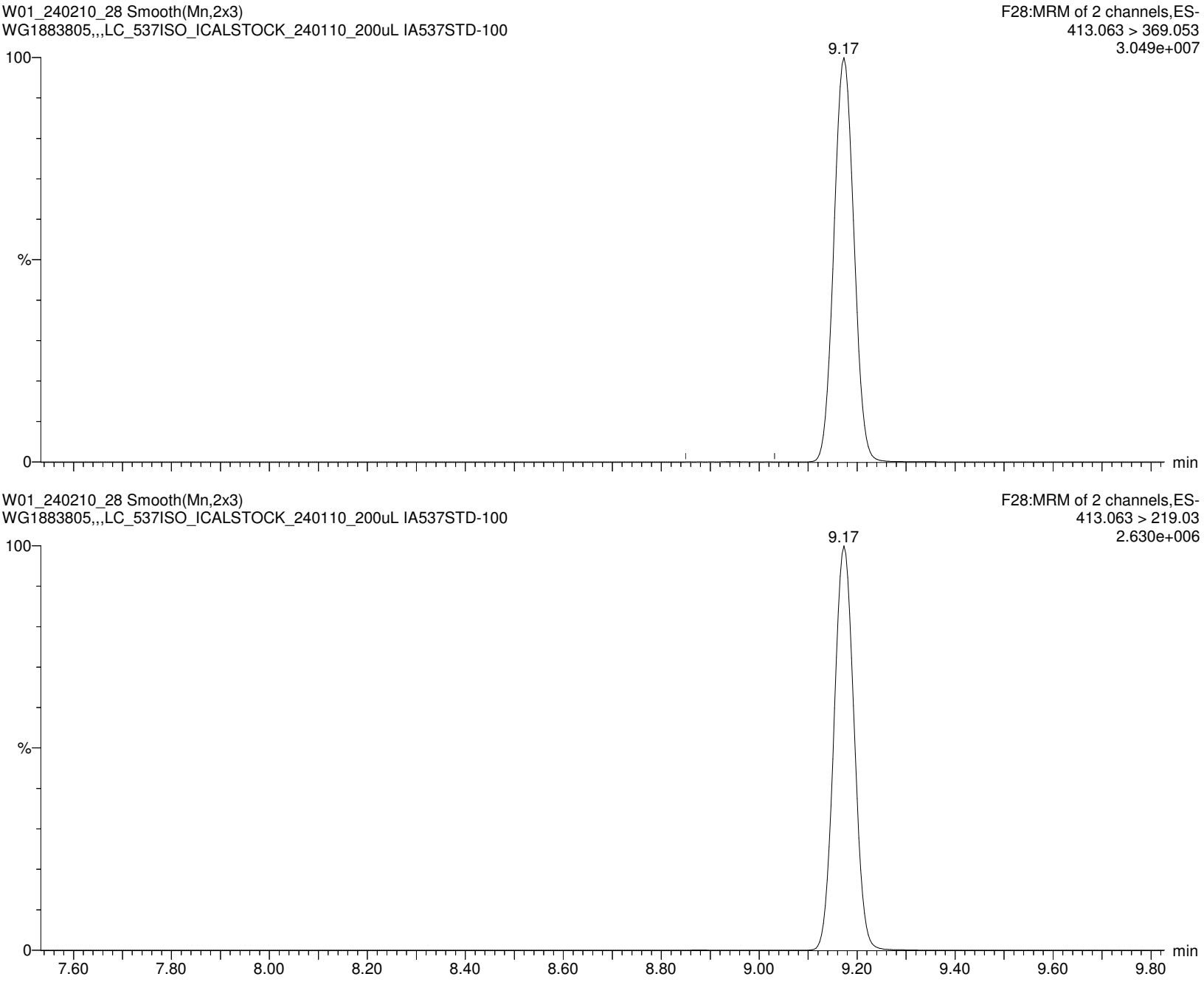

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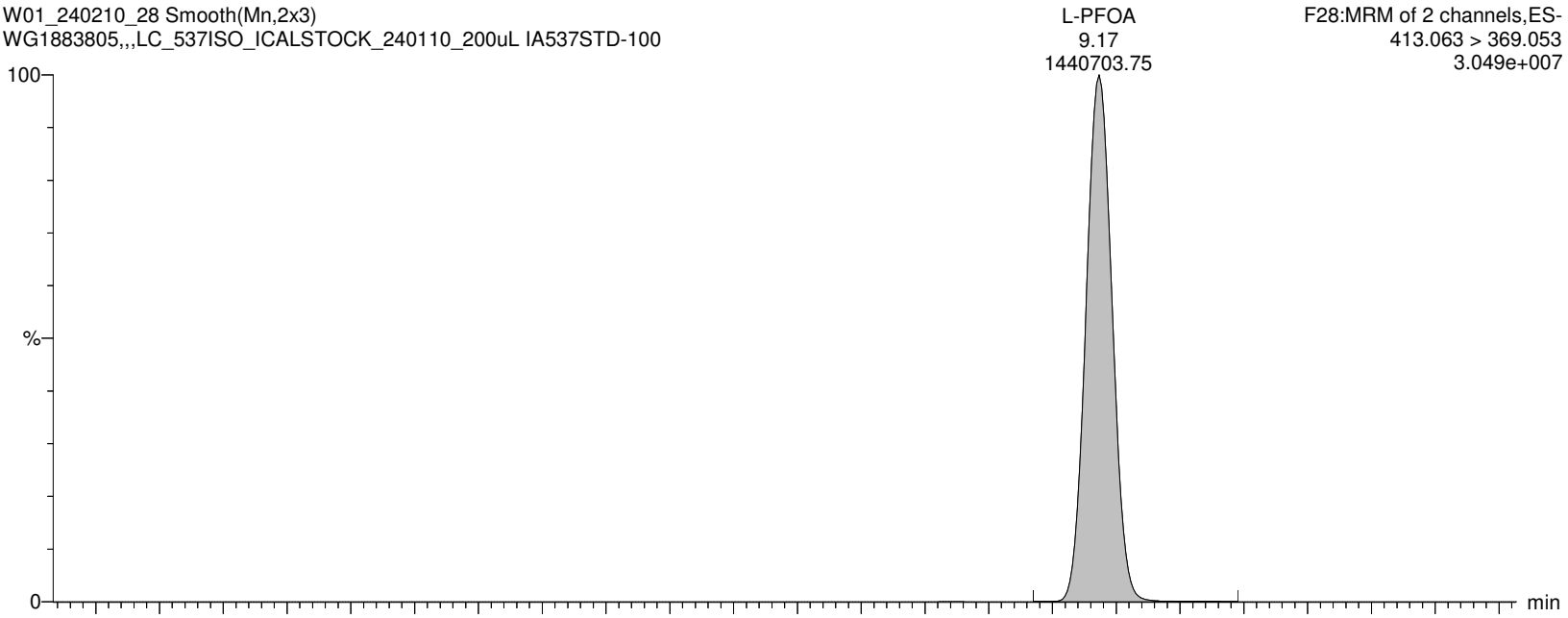

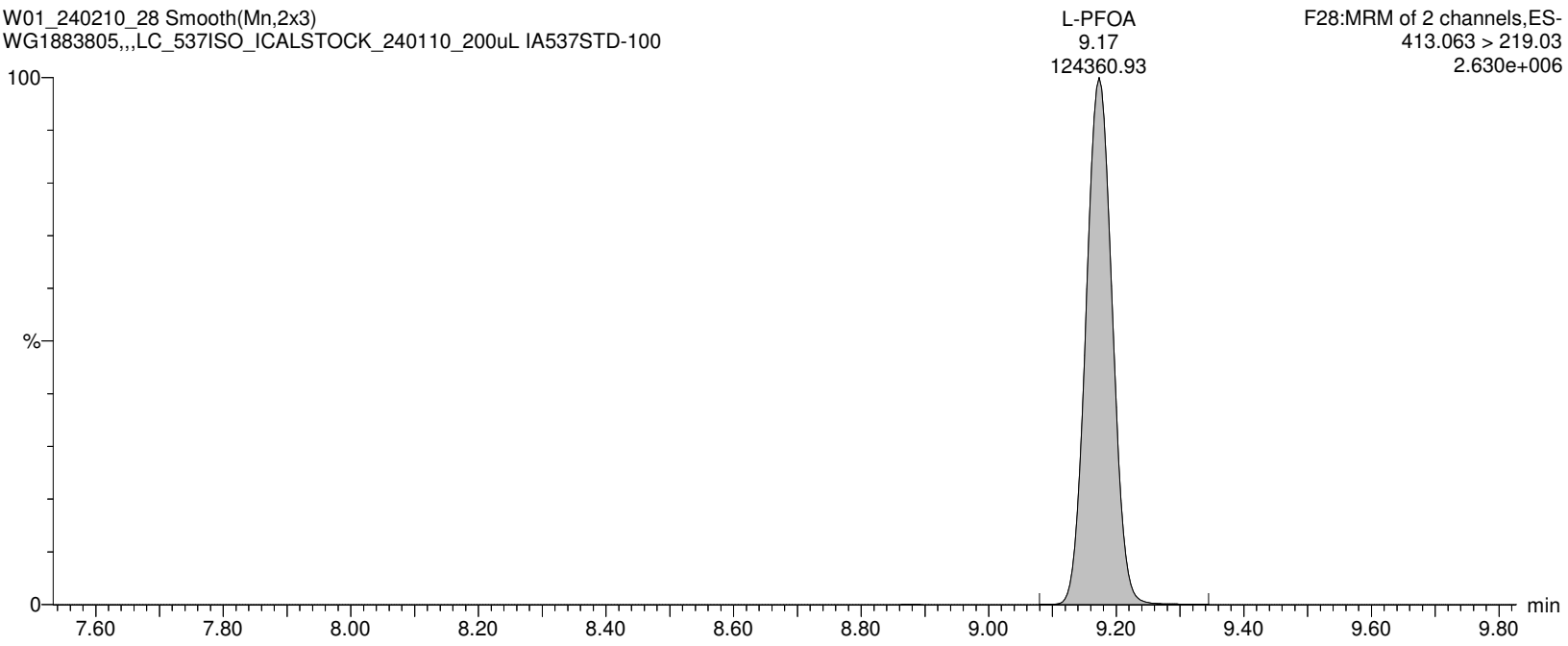

all concentration units in (ng/mL)

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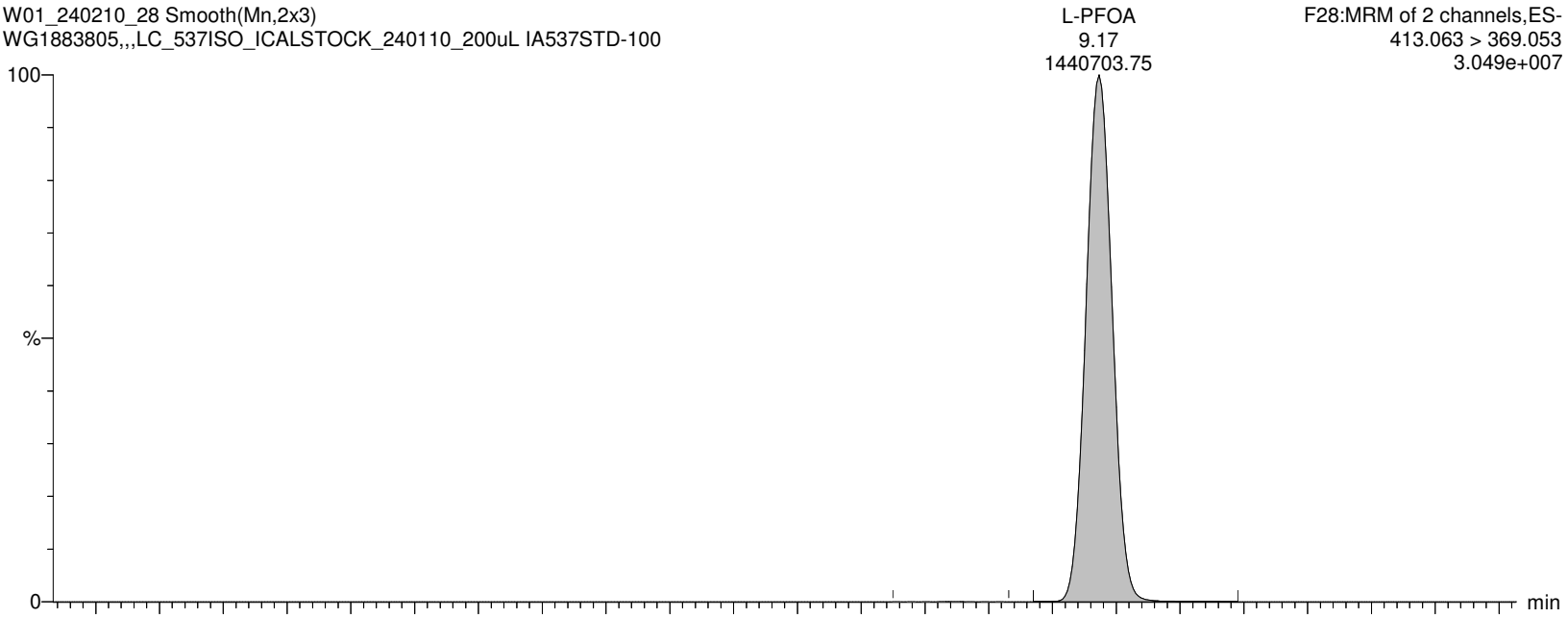

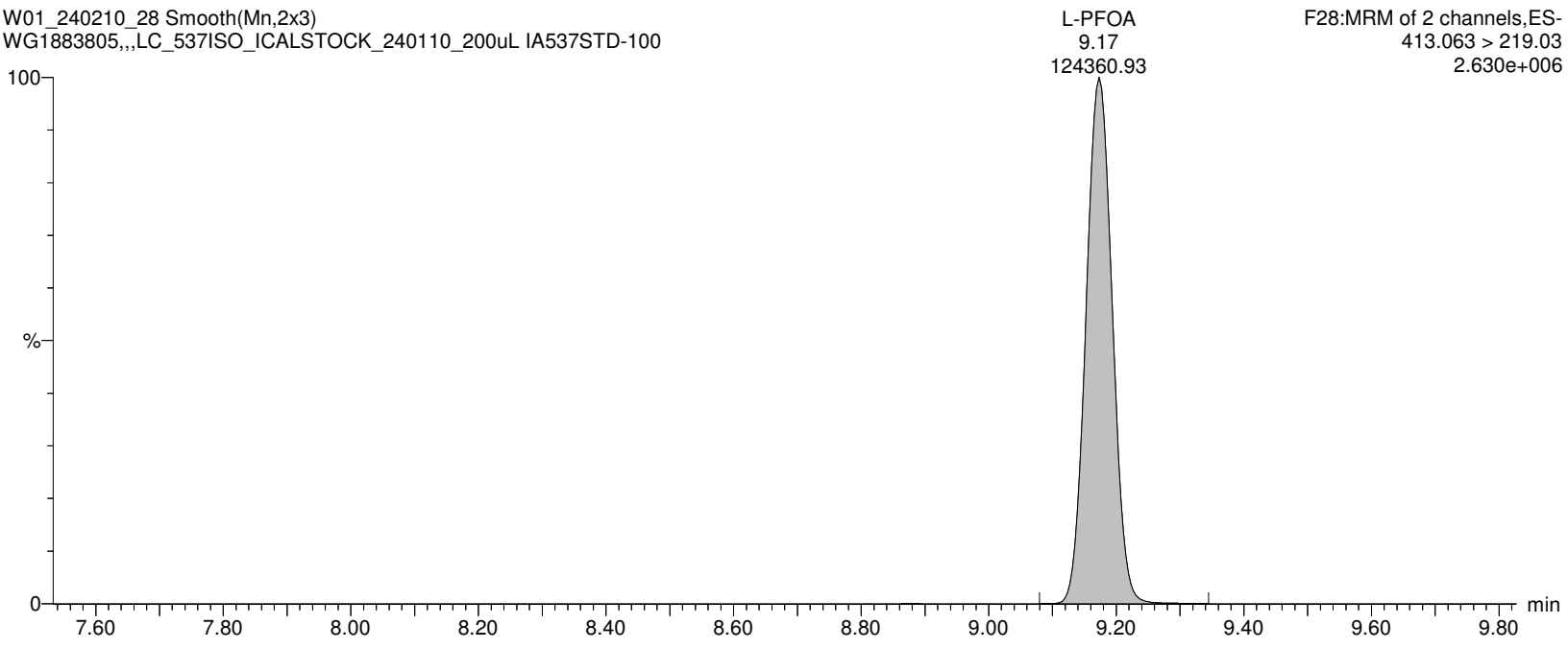

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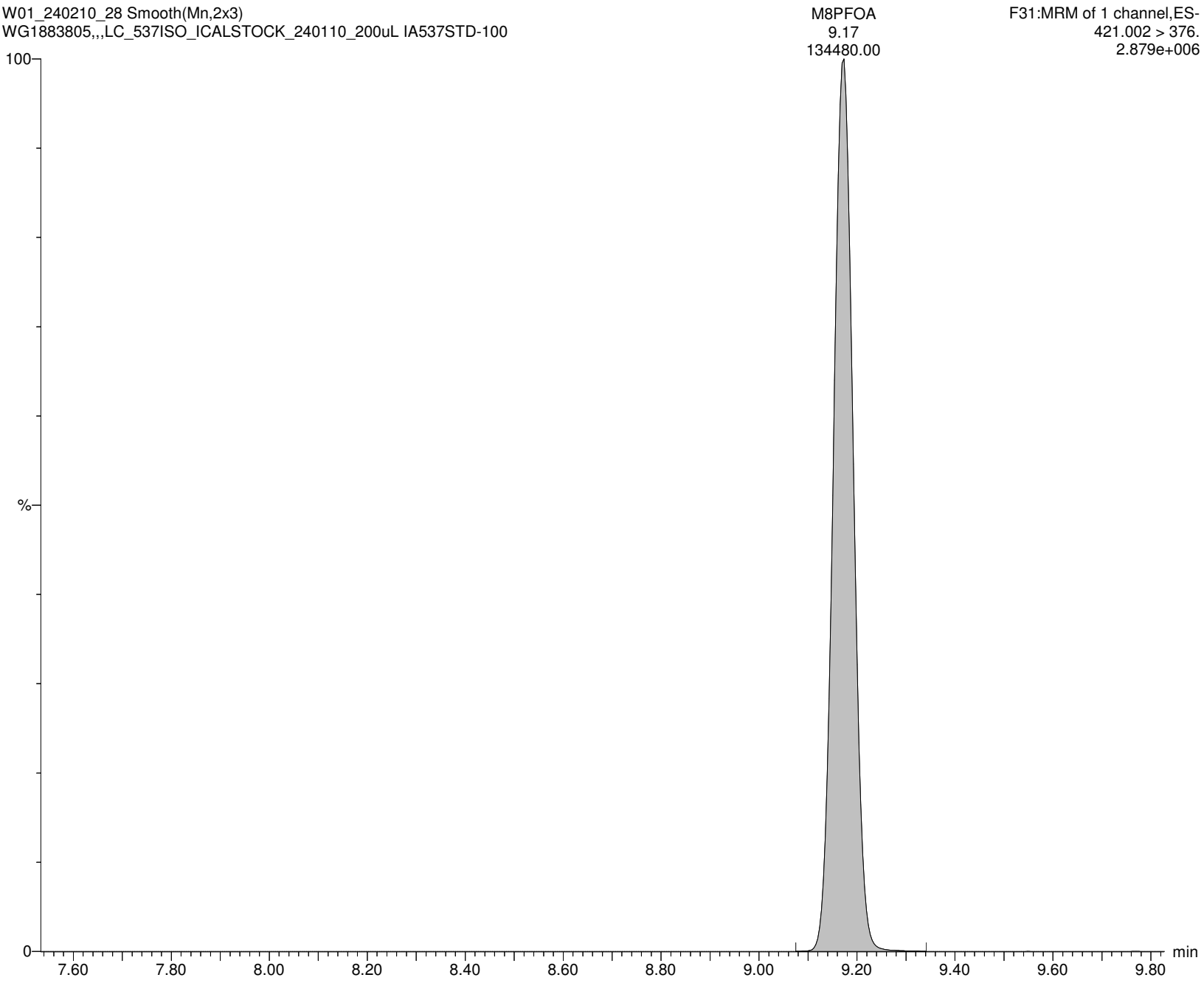

all concentration units in (ng/mL)

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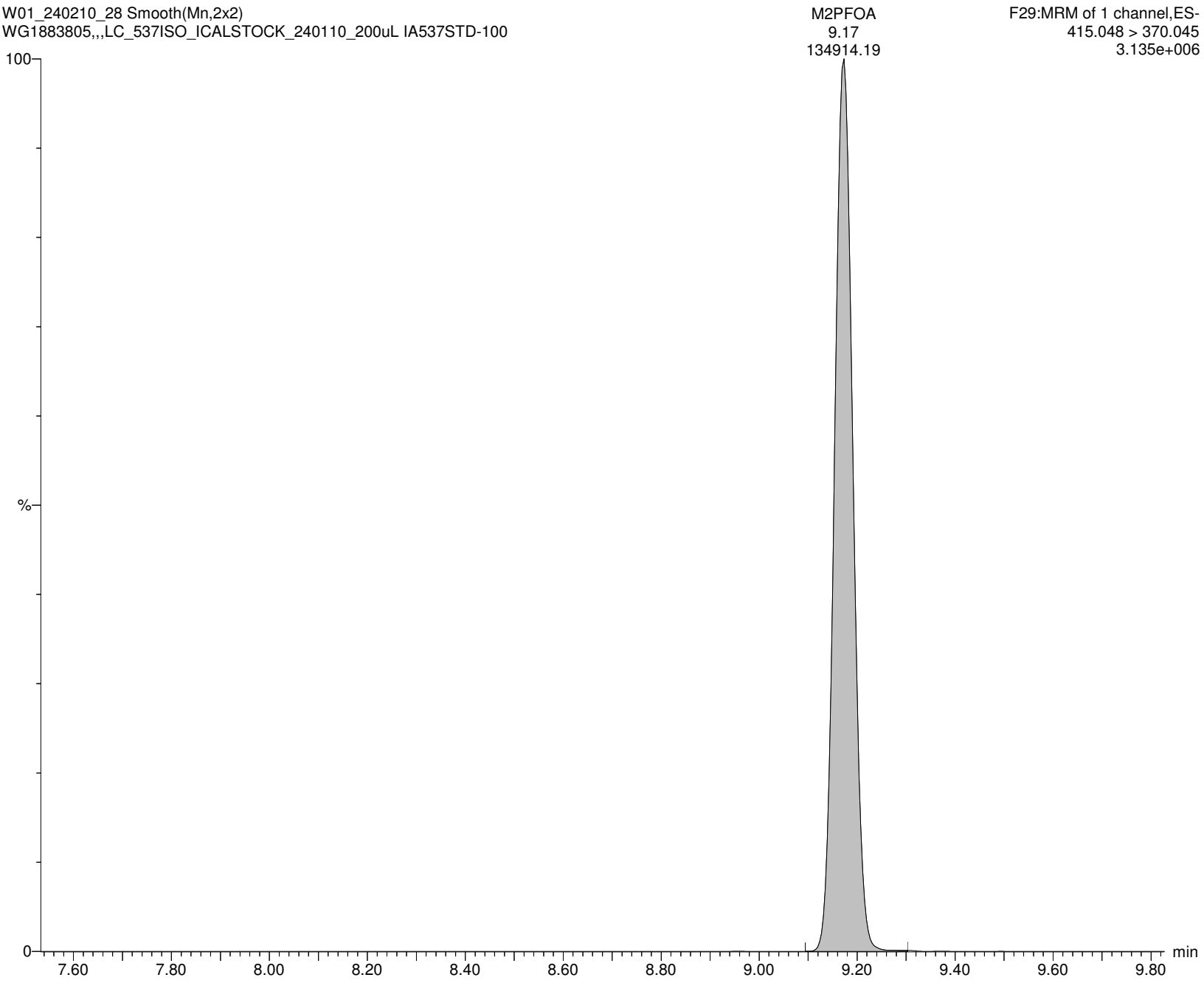

all concentration units in (ng/mL)

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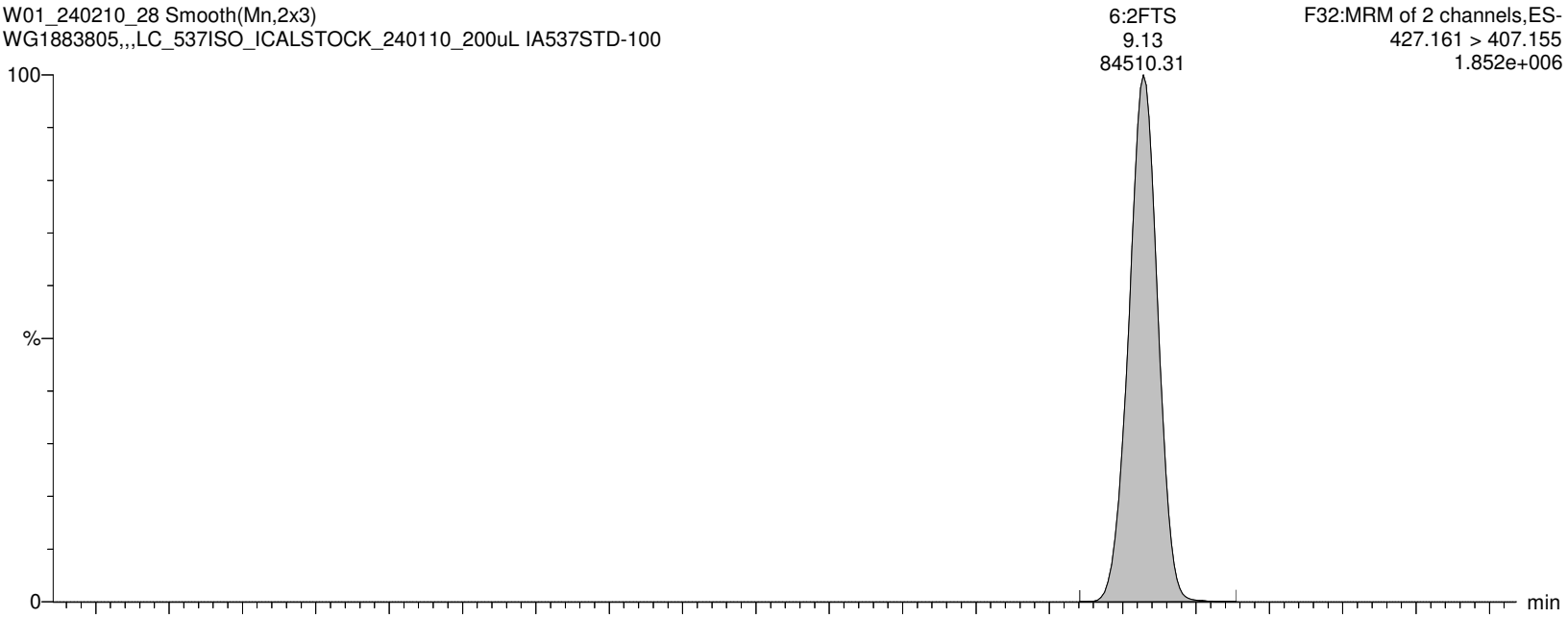

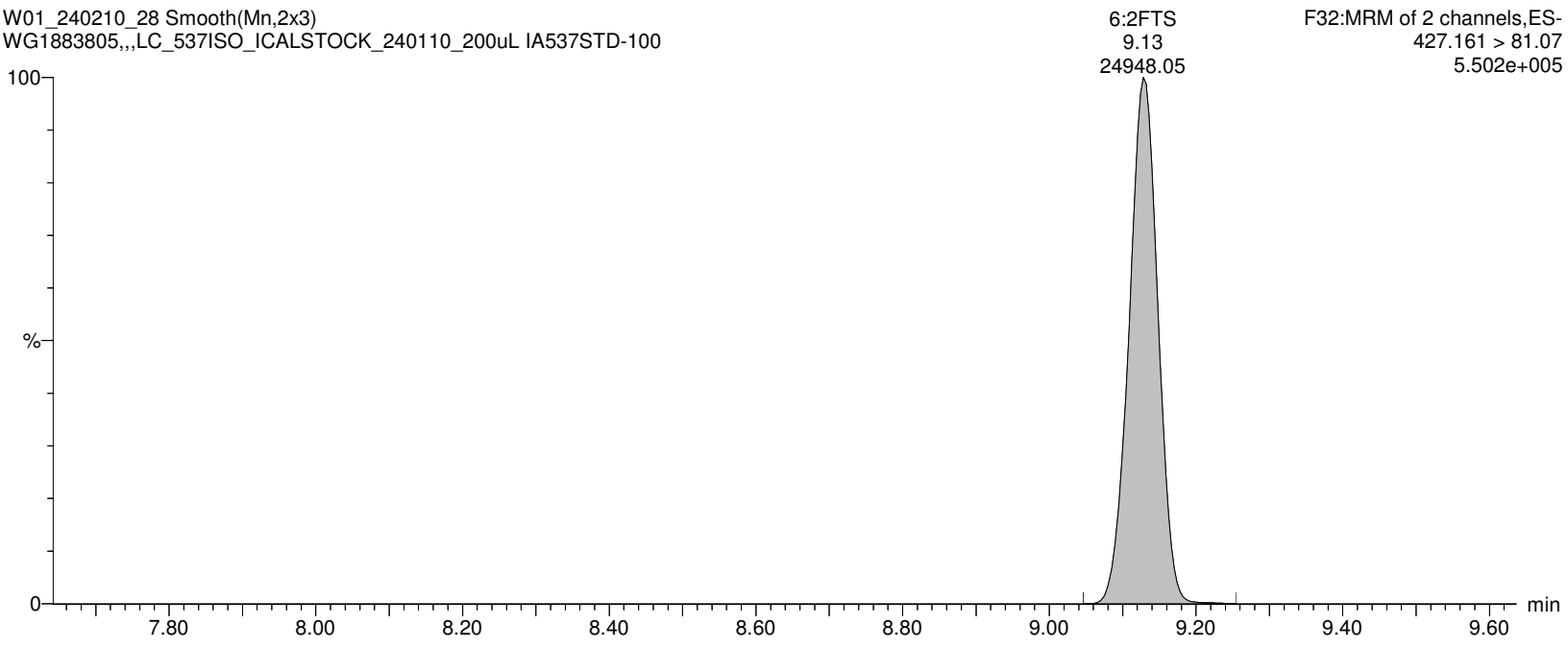

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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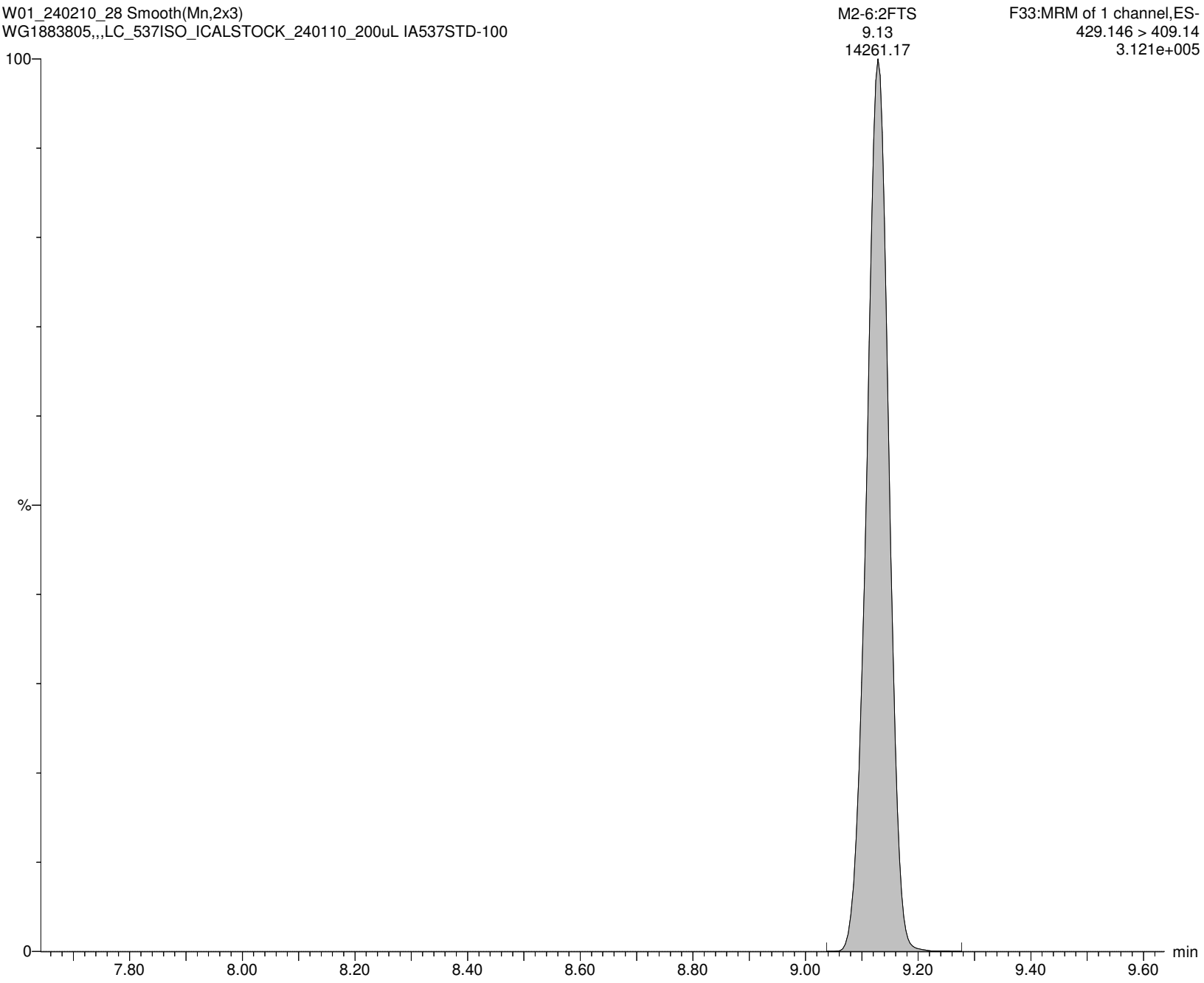

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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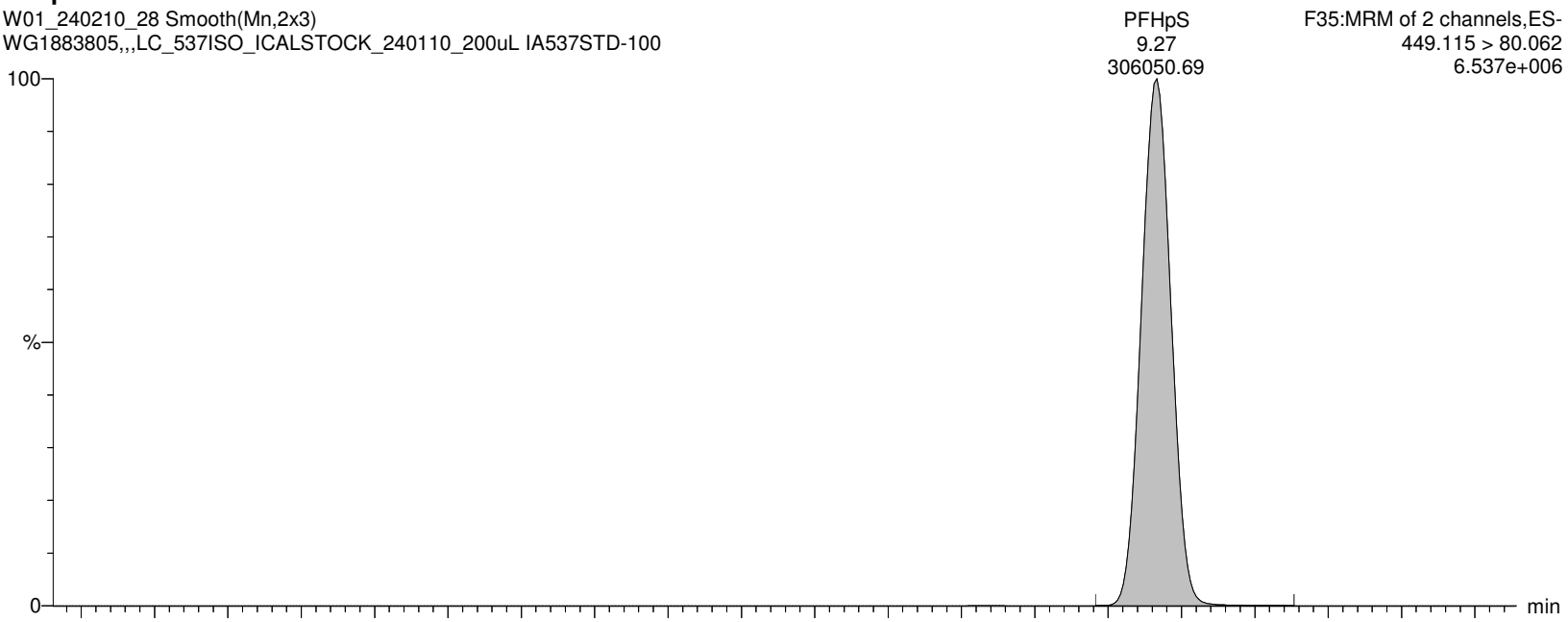

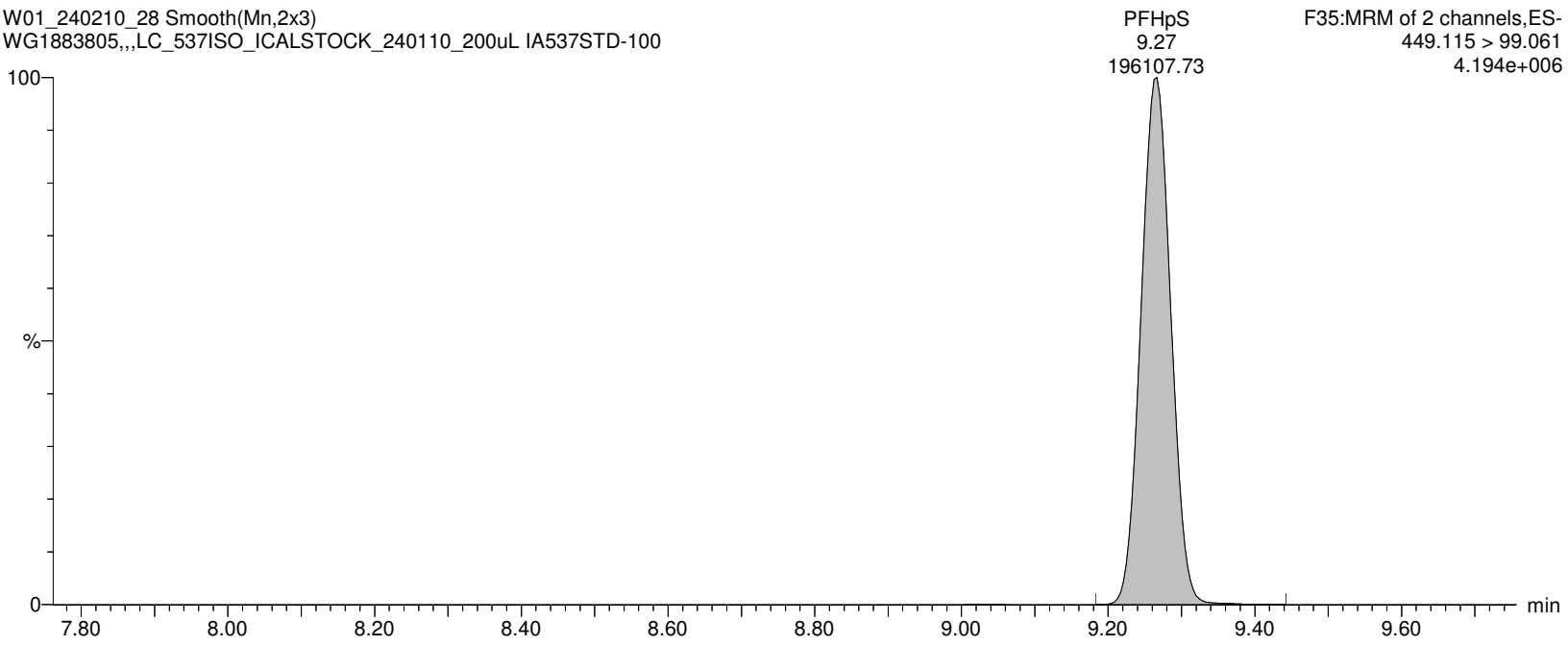

all concentration units in (ng/mL)

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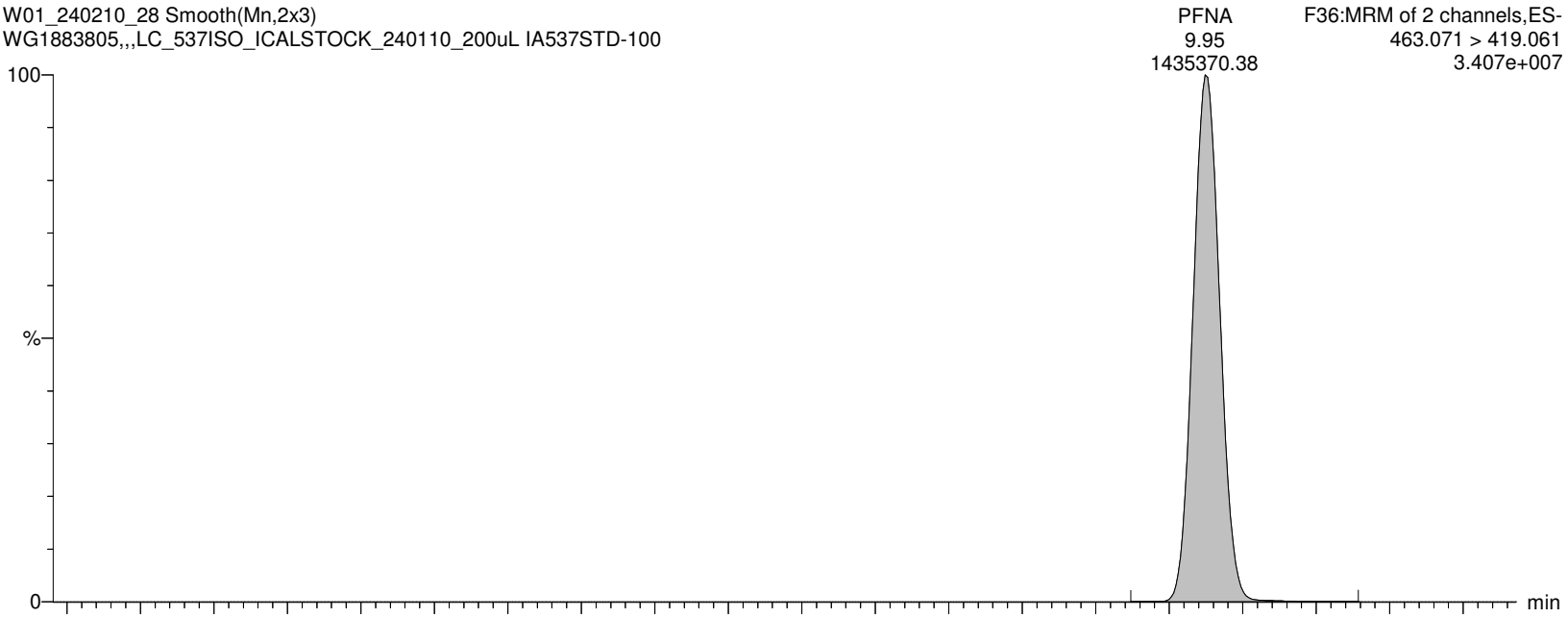

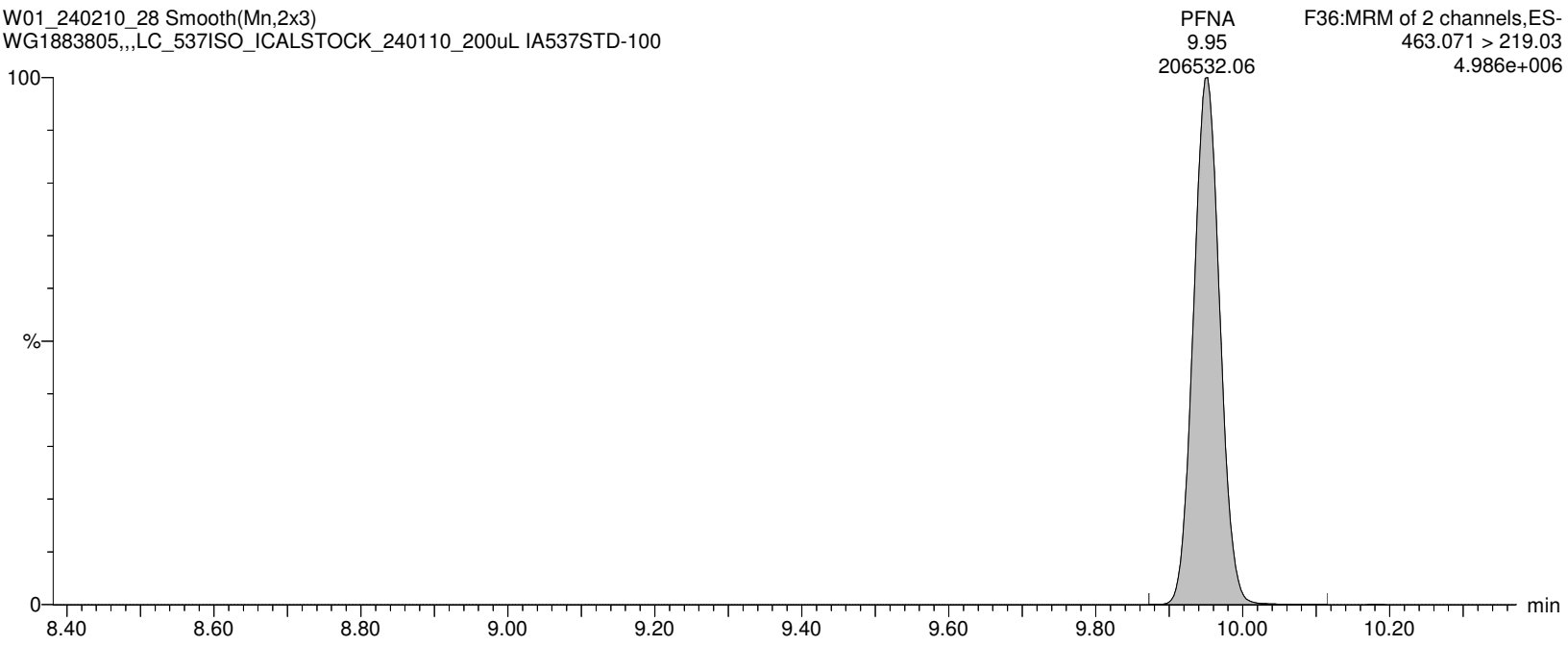

all concentration units in (ng/mL)

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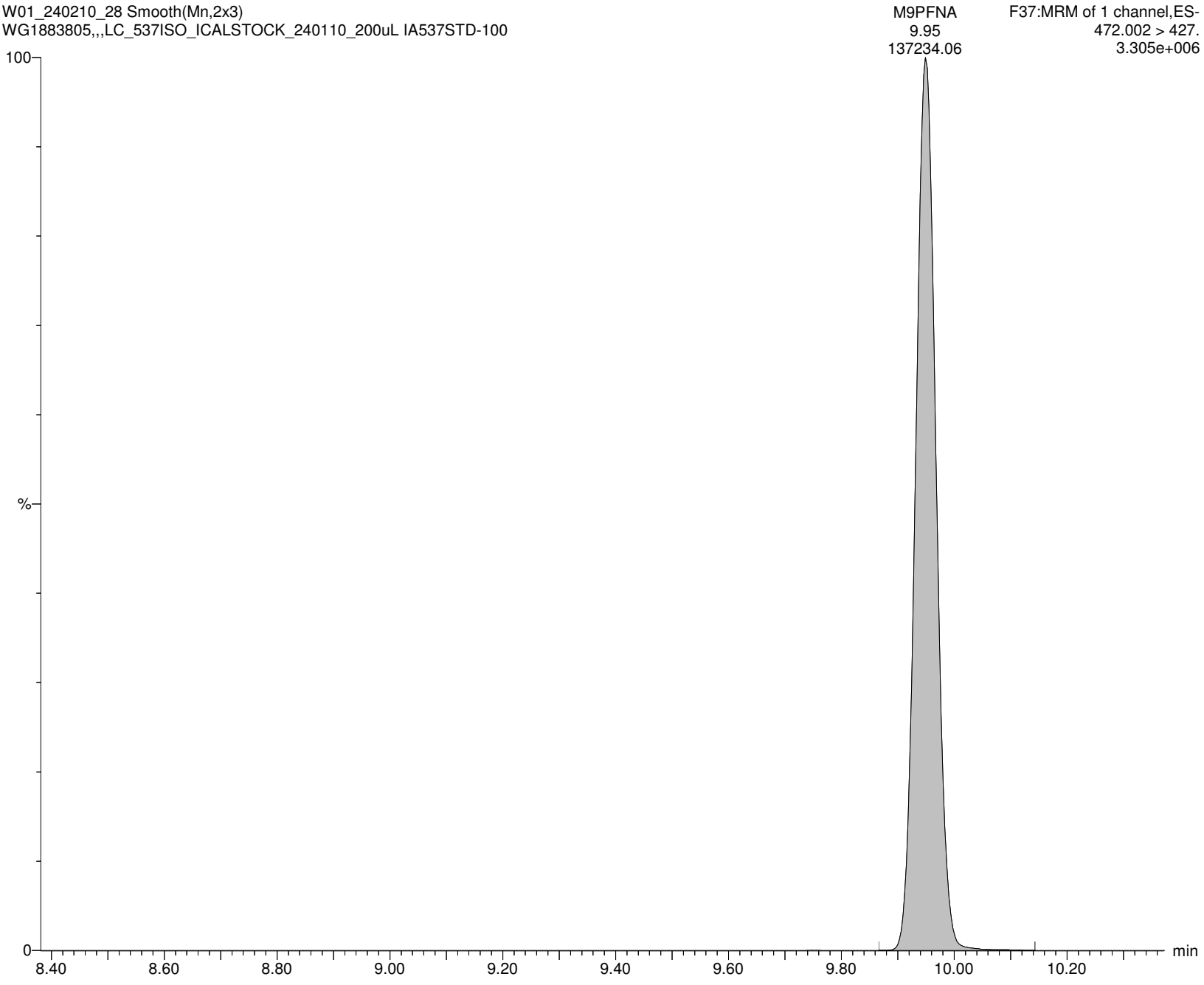

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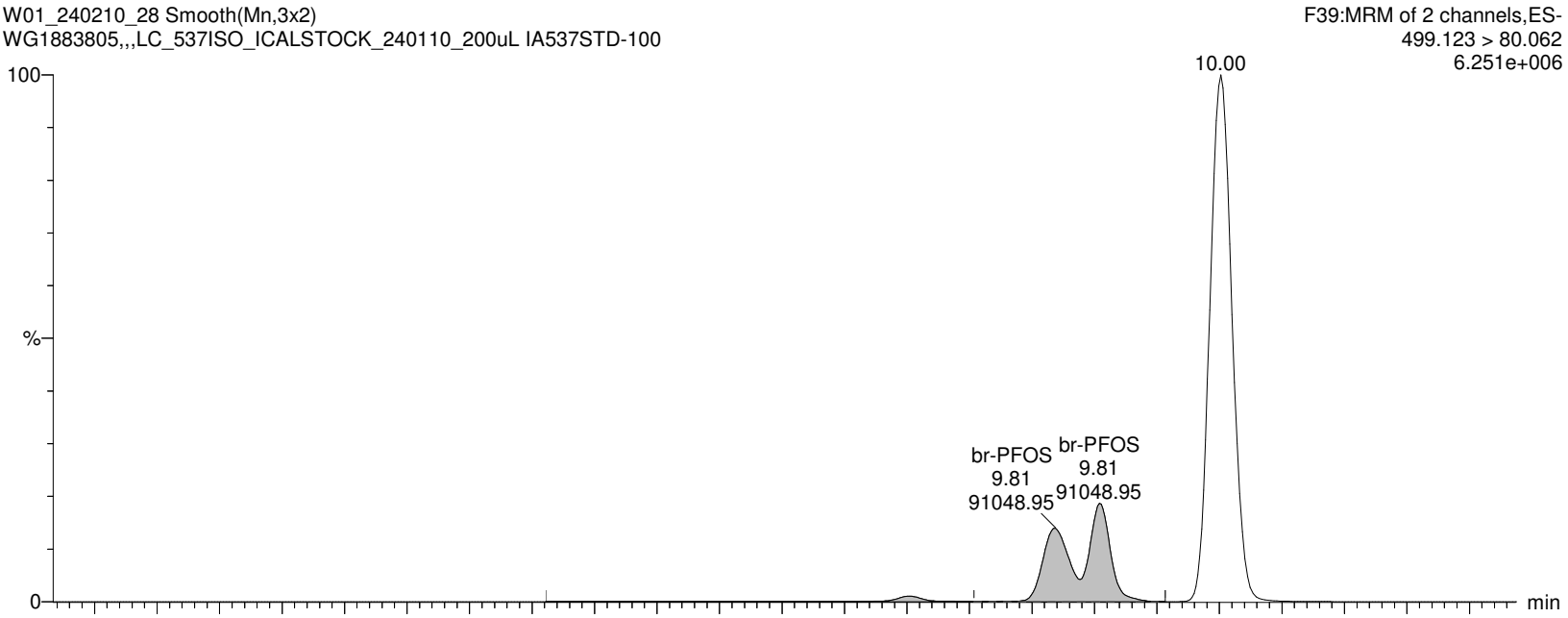
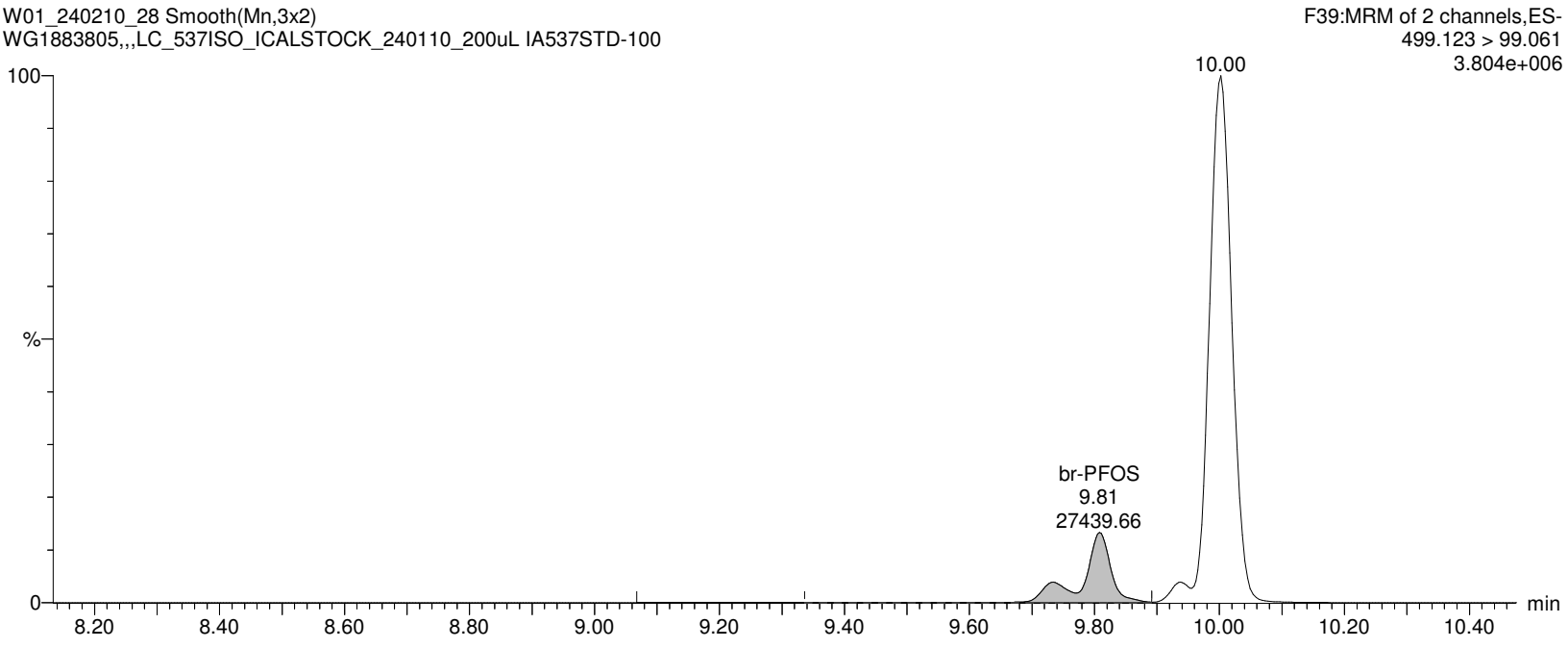
br-PFOS





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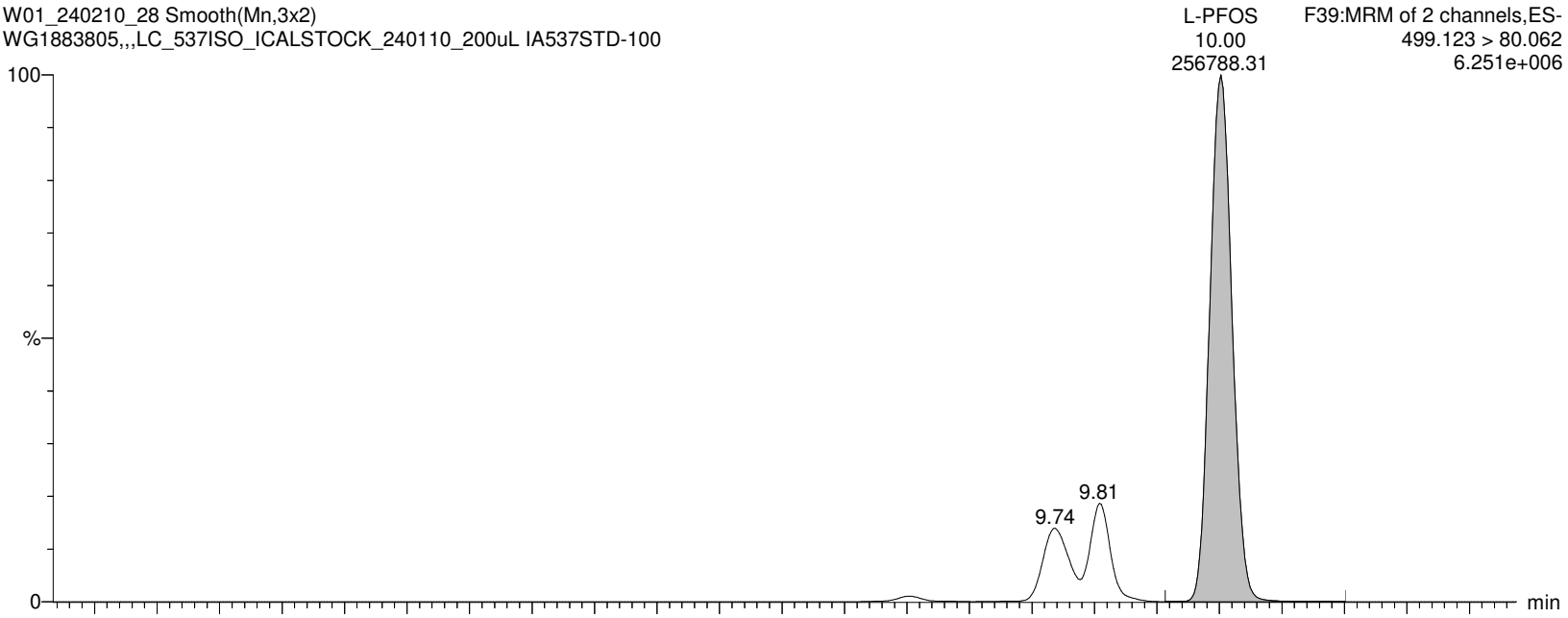
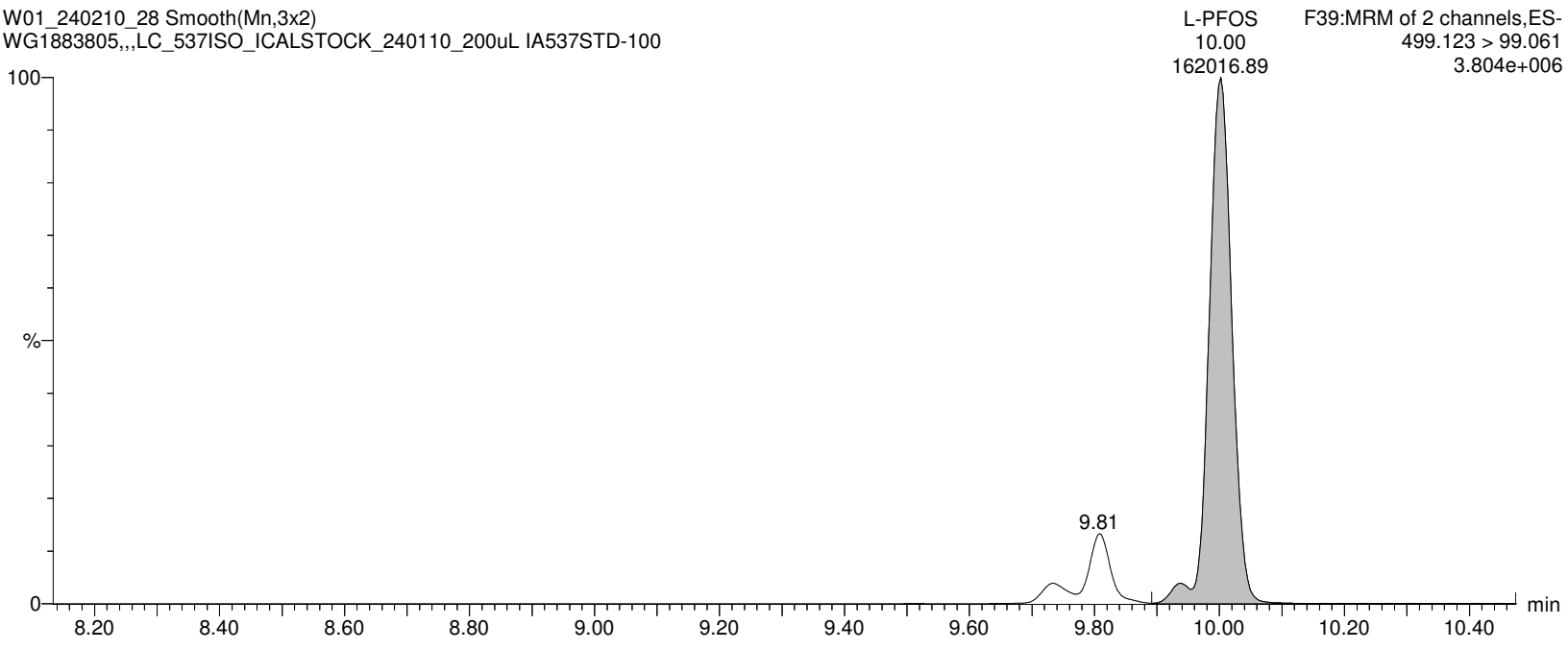
L-PFOS





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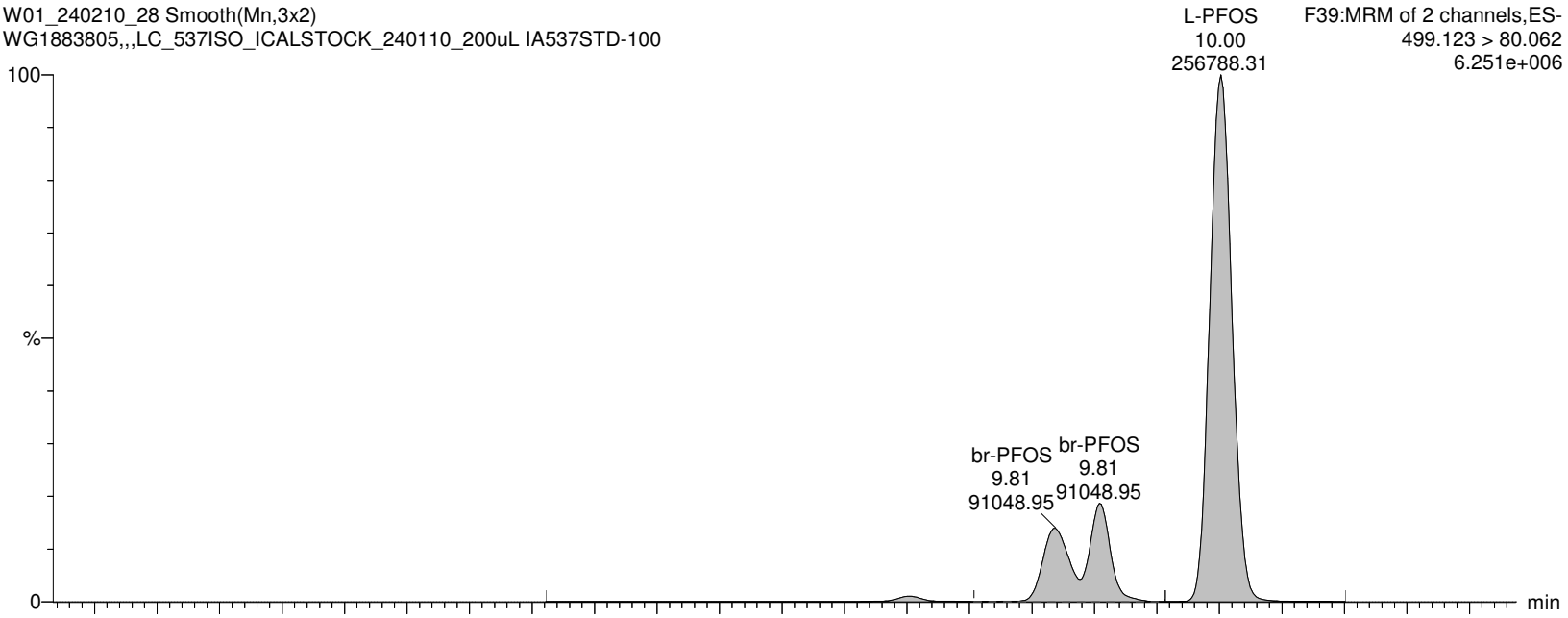

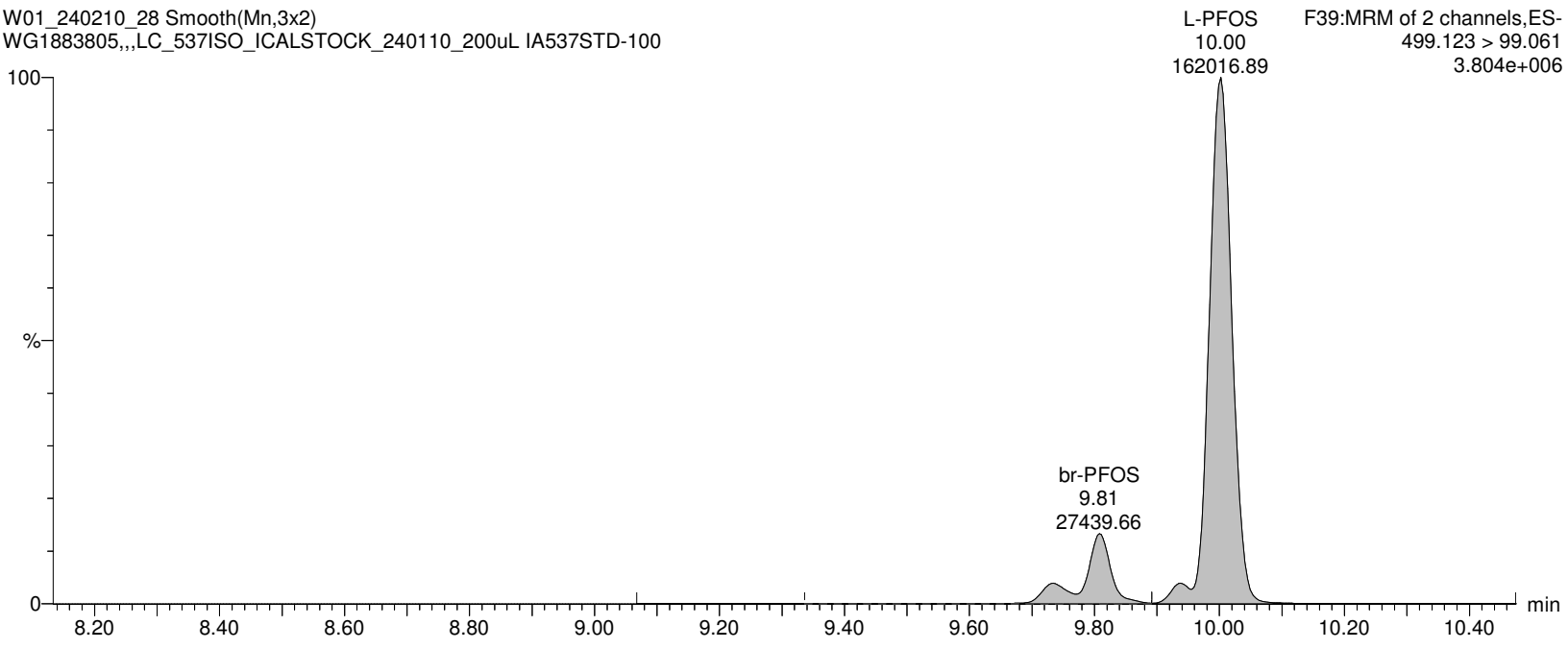

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

Name: W01_240210_28
ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_200uL
User: LCMS01:SG
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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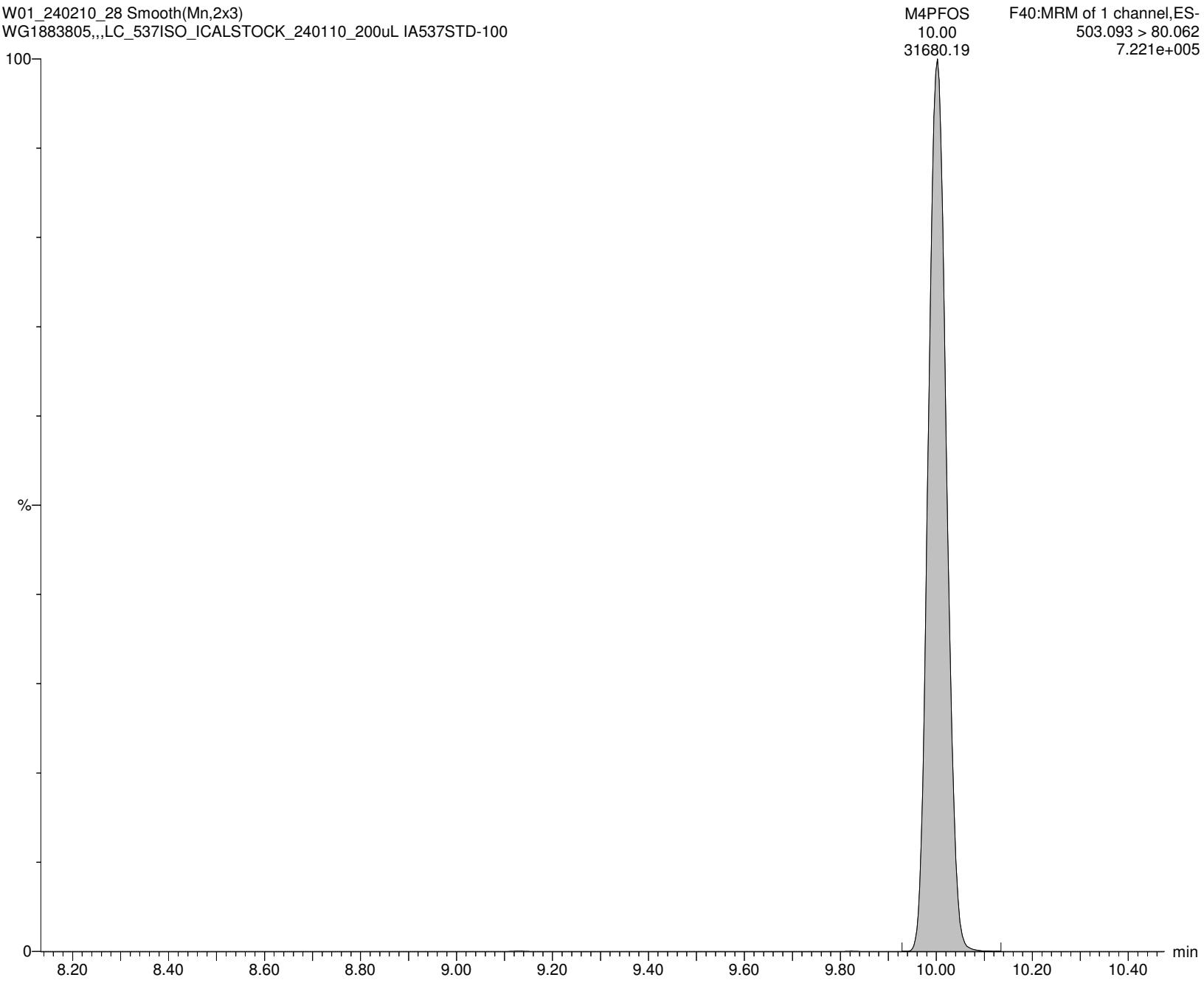

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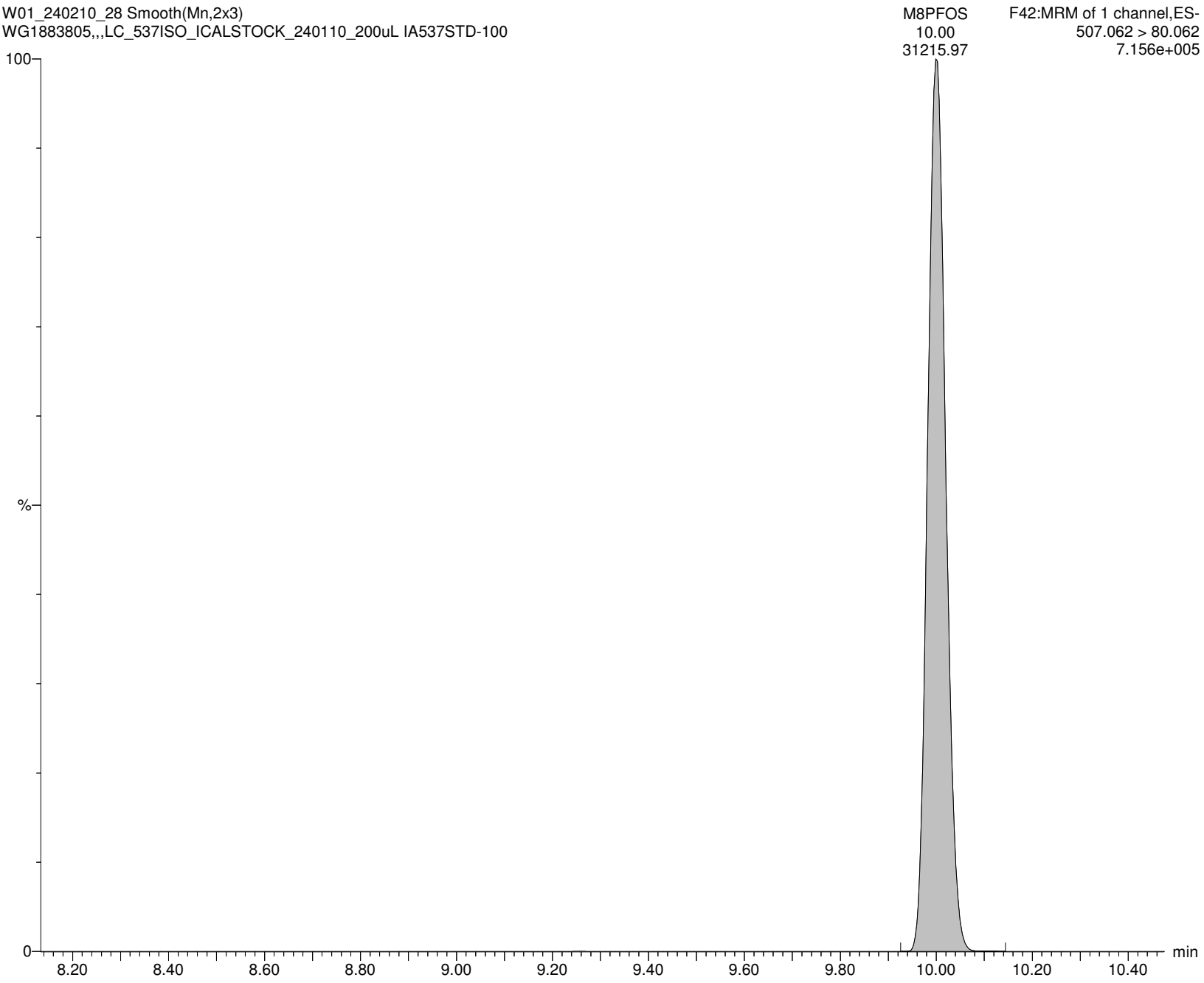

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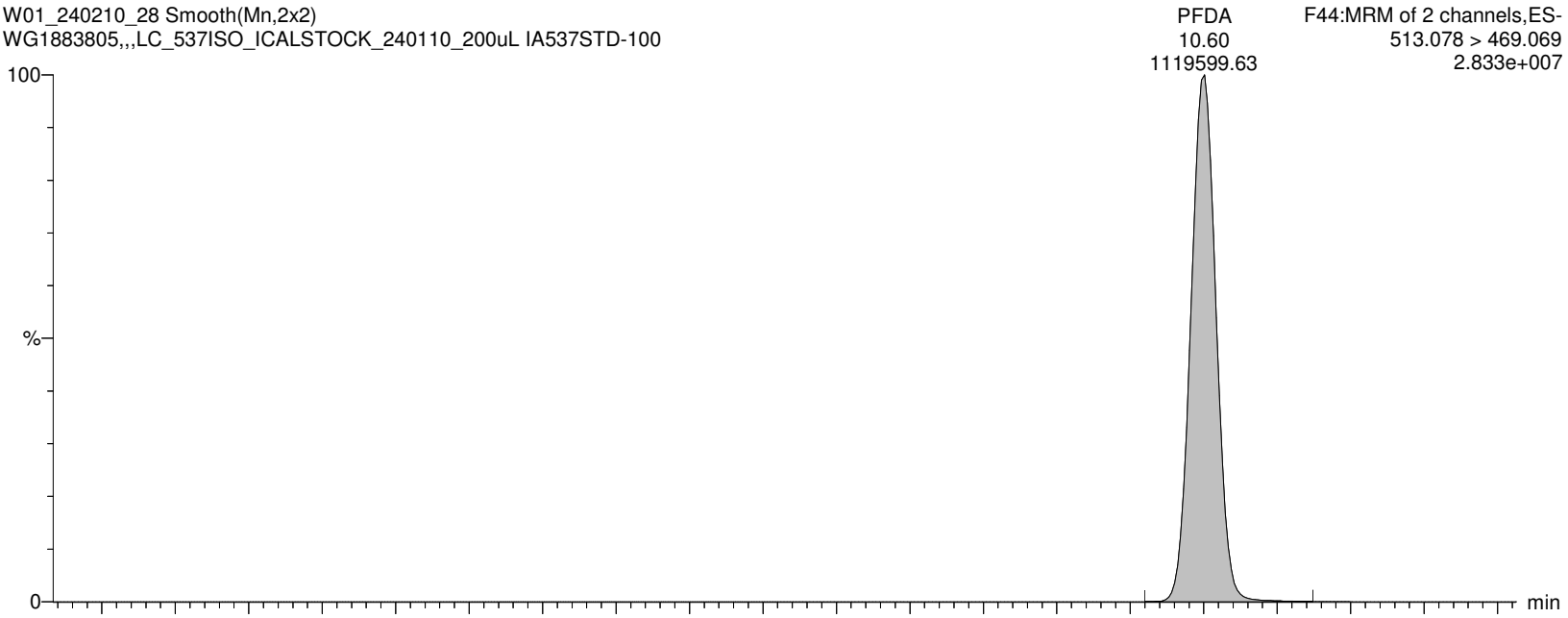

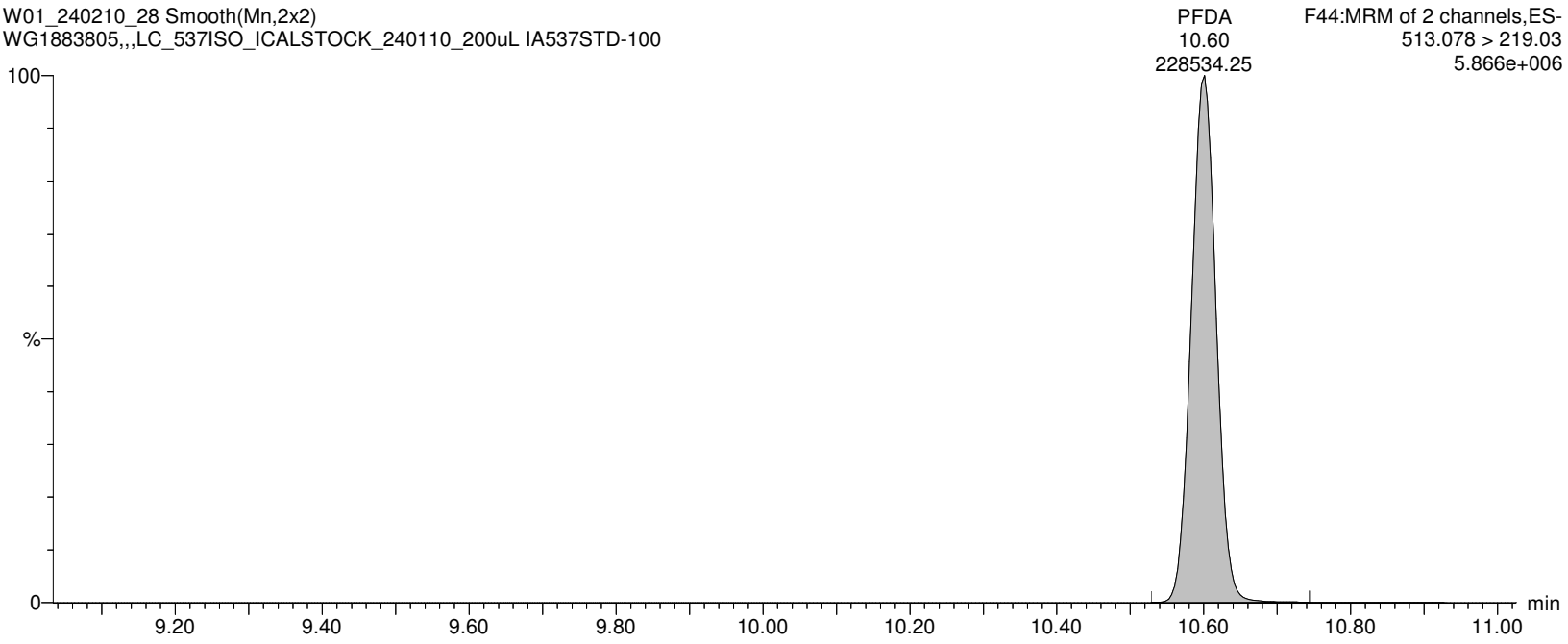

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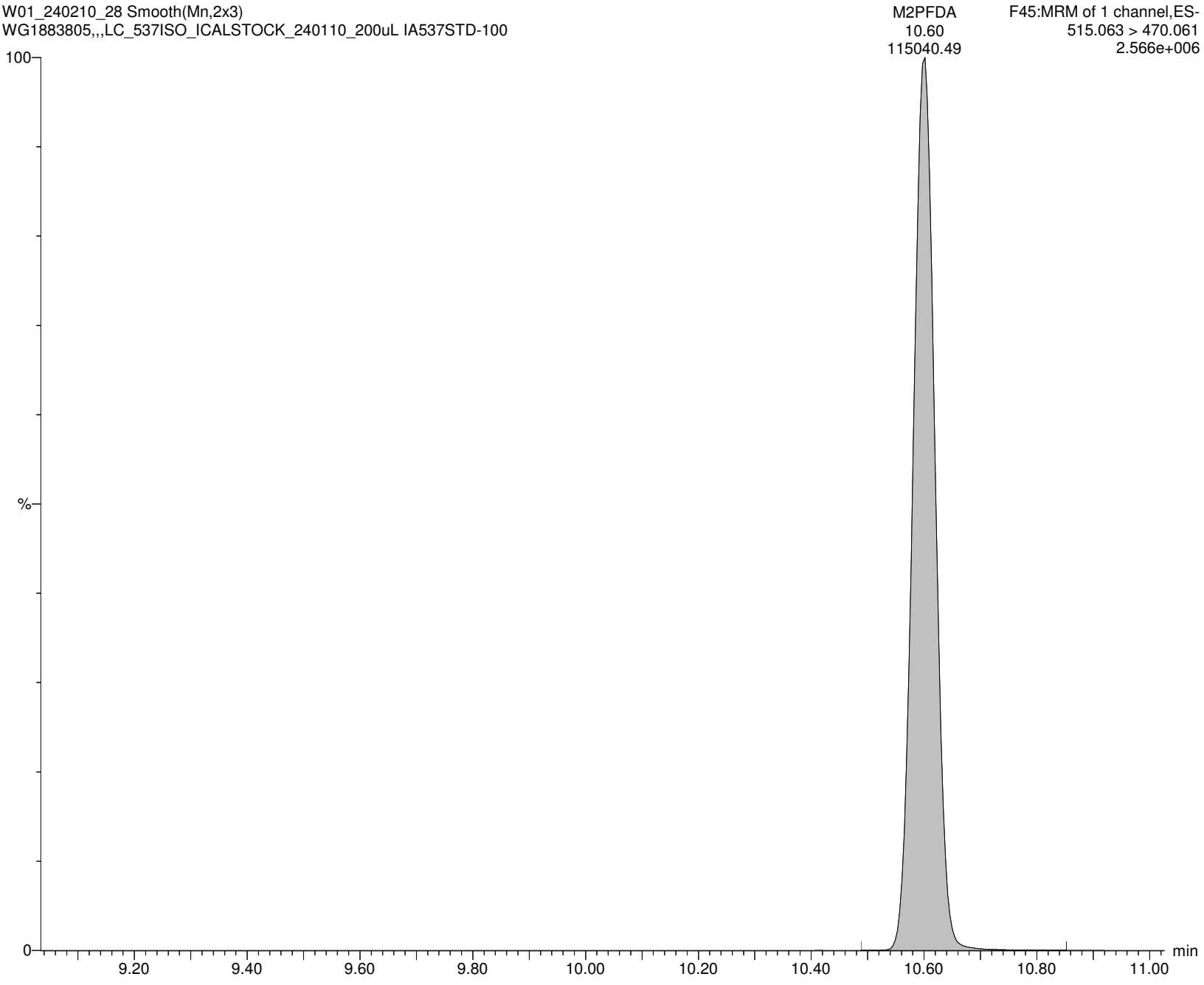

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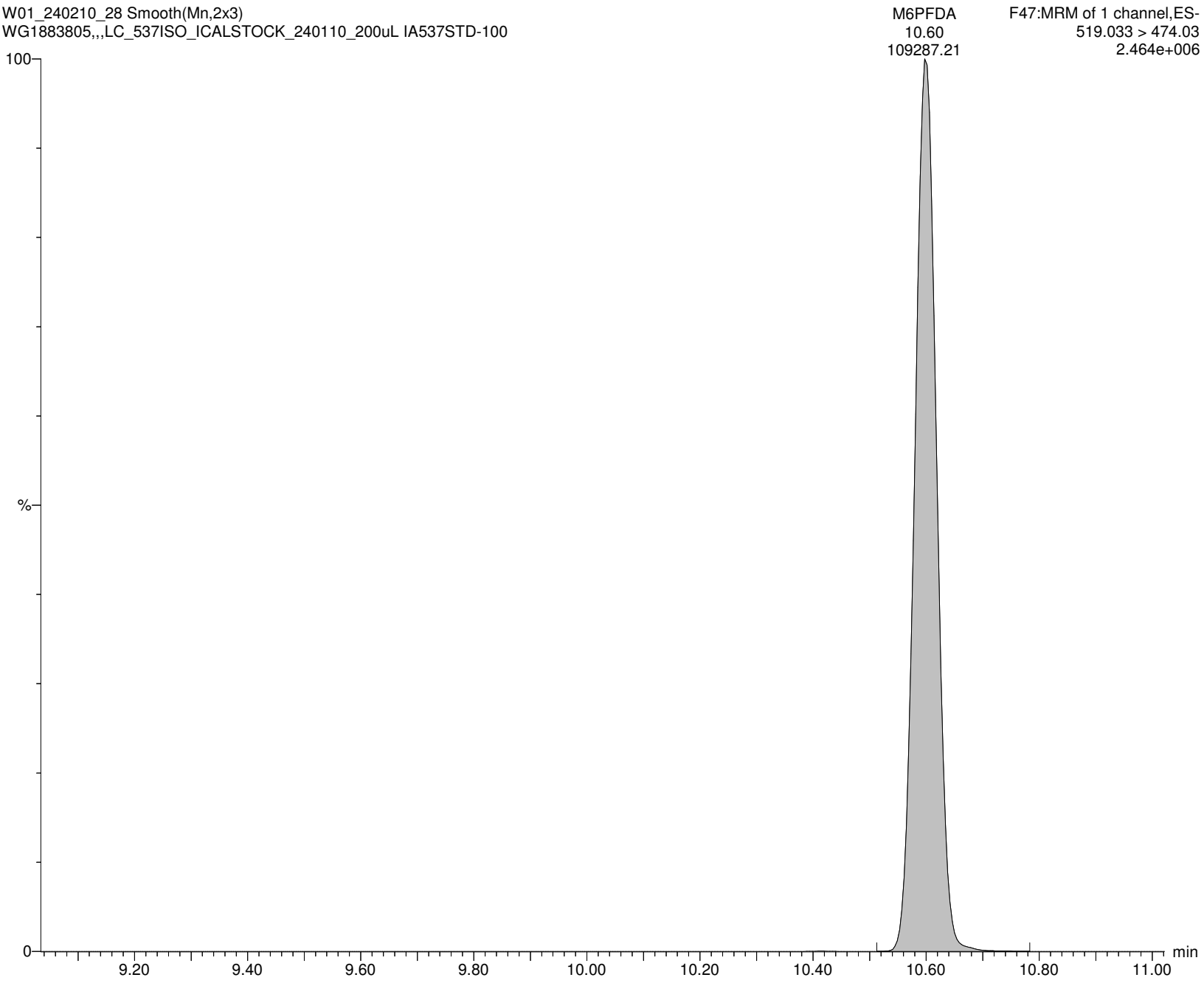

all concentration units in (ng/mL)

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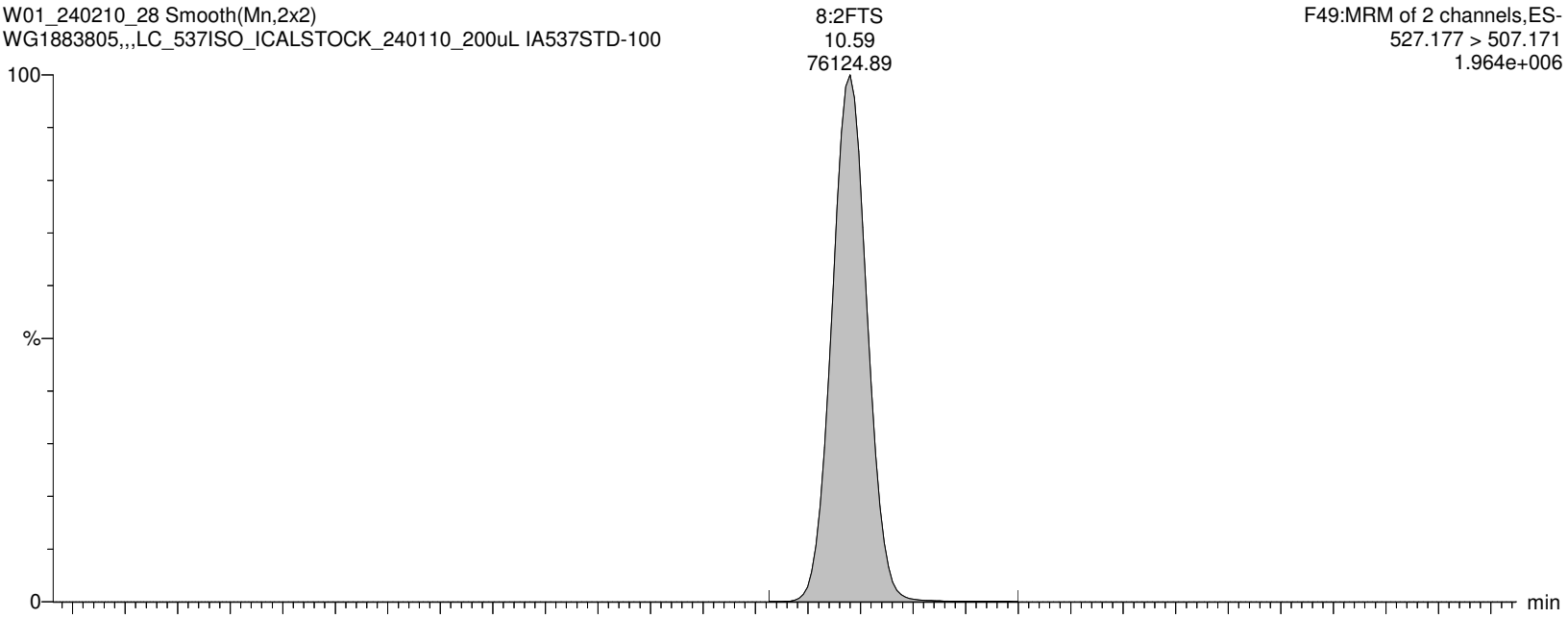

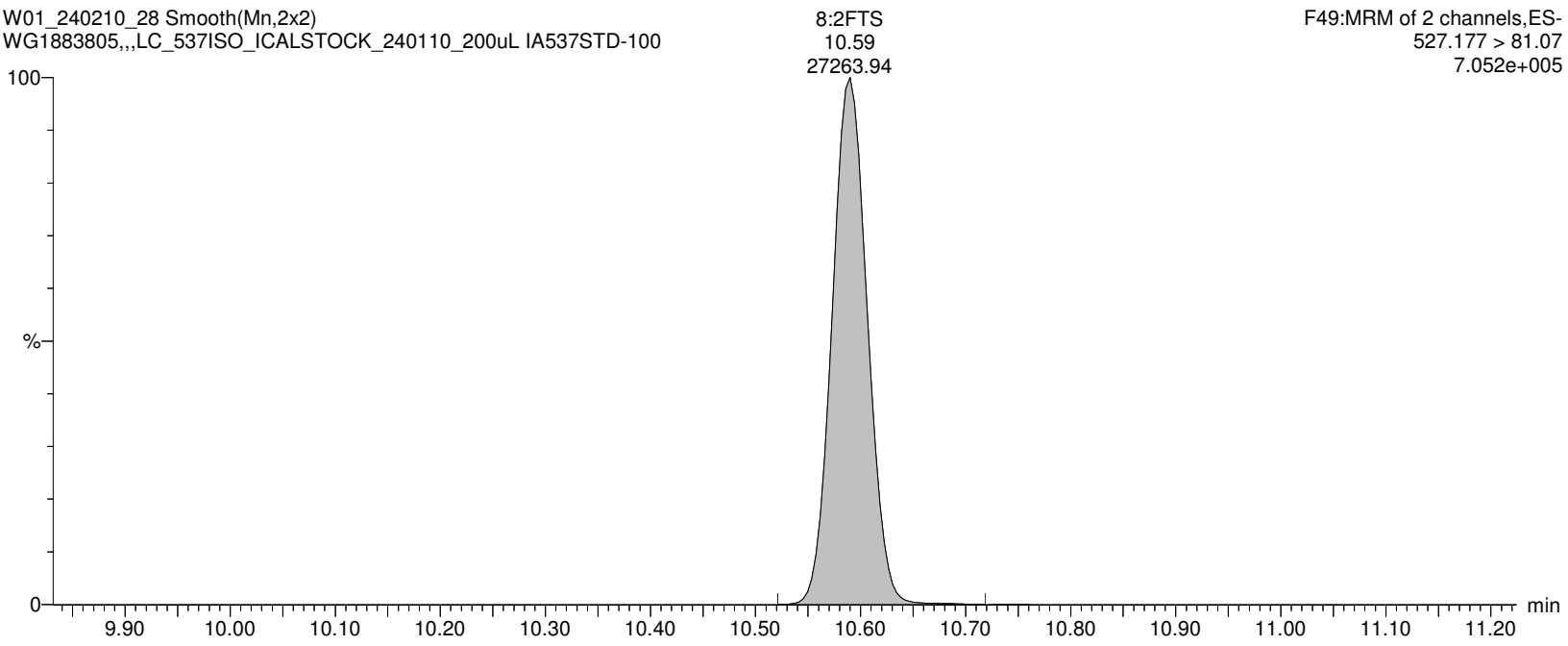

all concentration units in (ng/mL)

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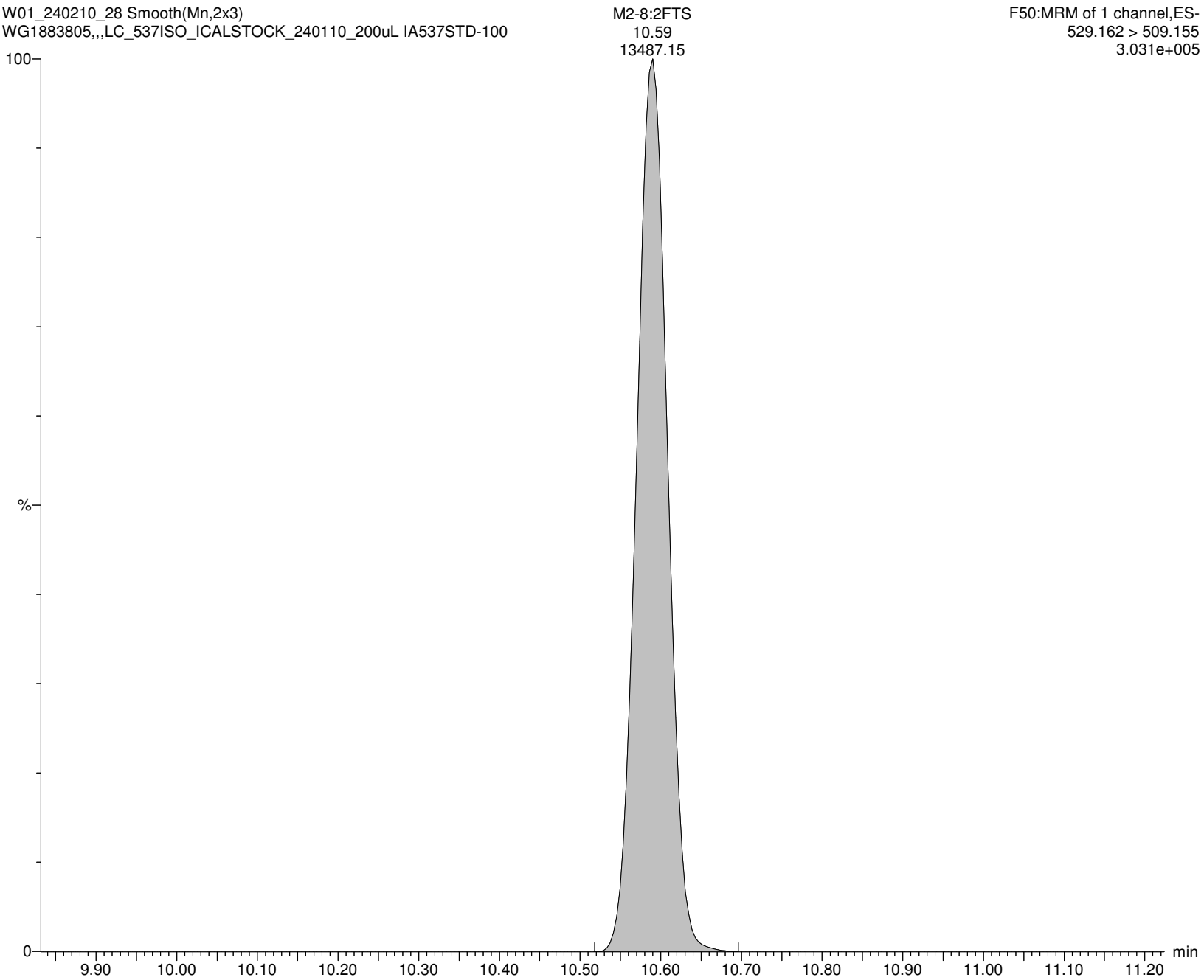

all concentration units in (ng/mL)

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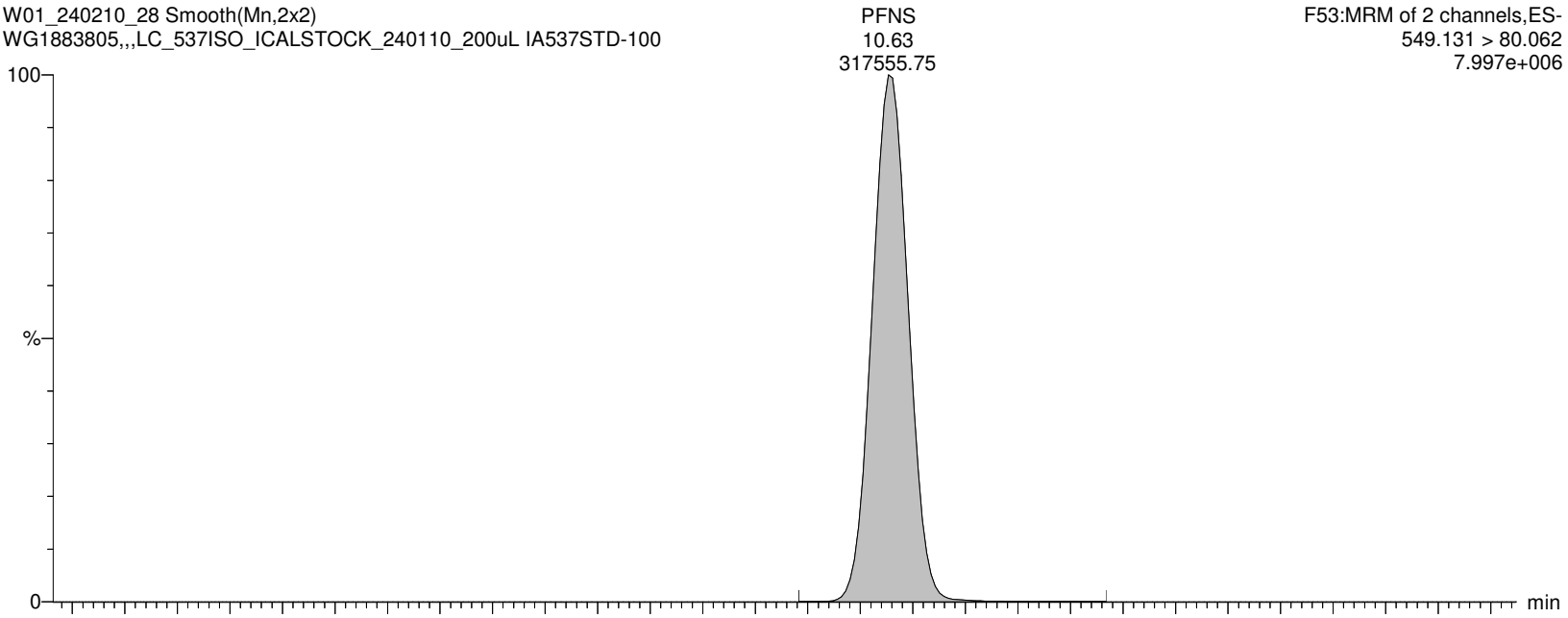

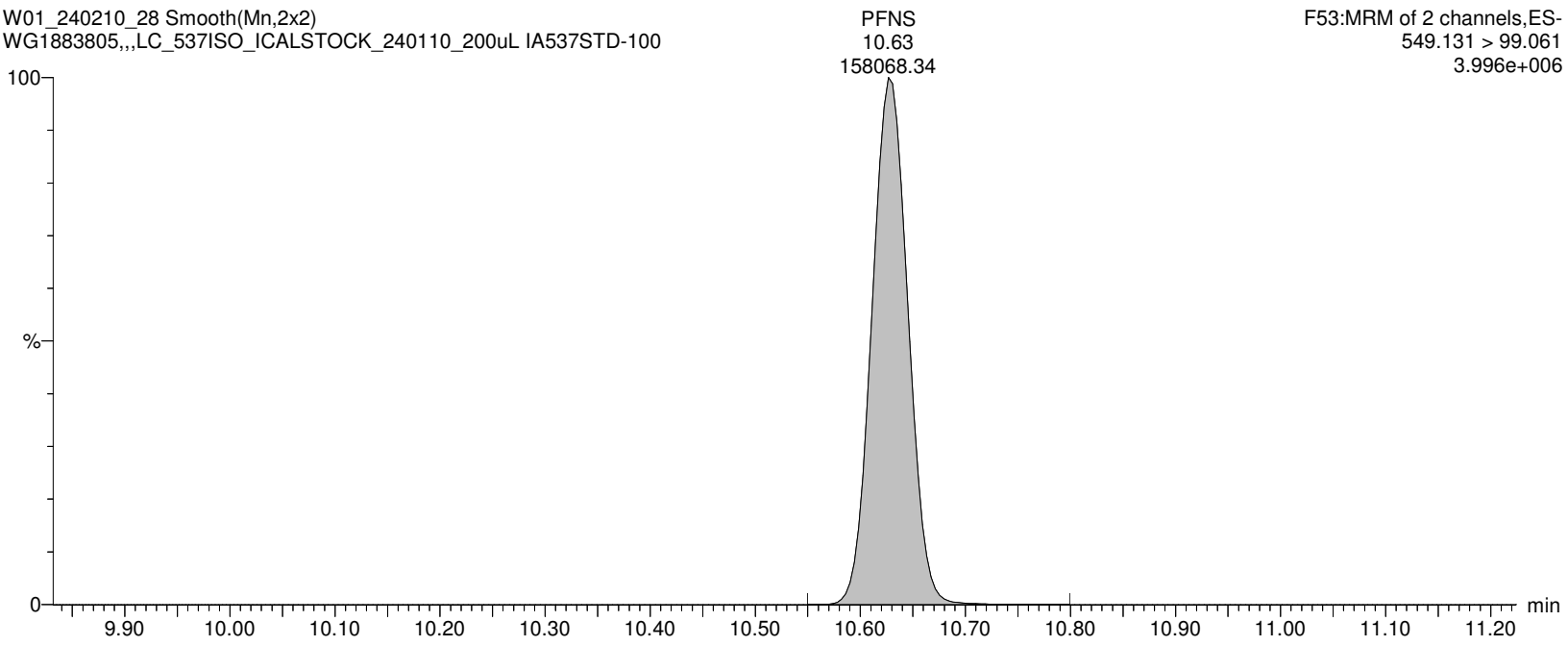

all concentration units in (ng/mL)

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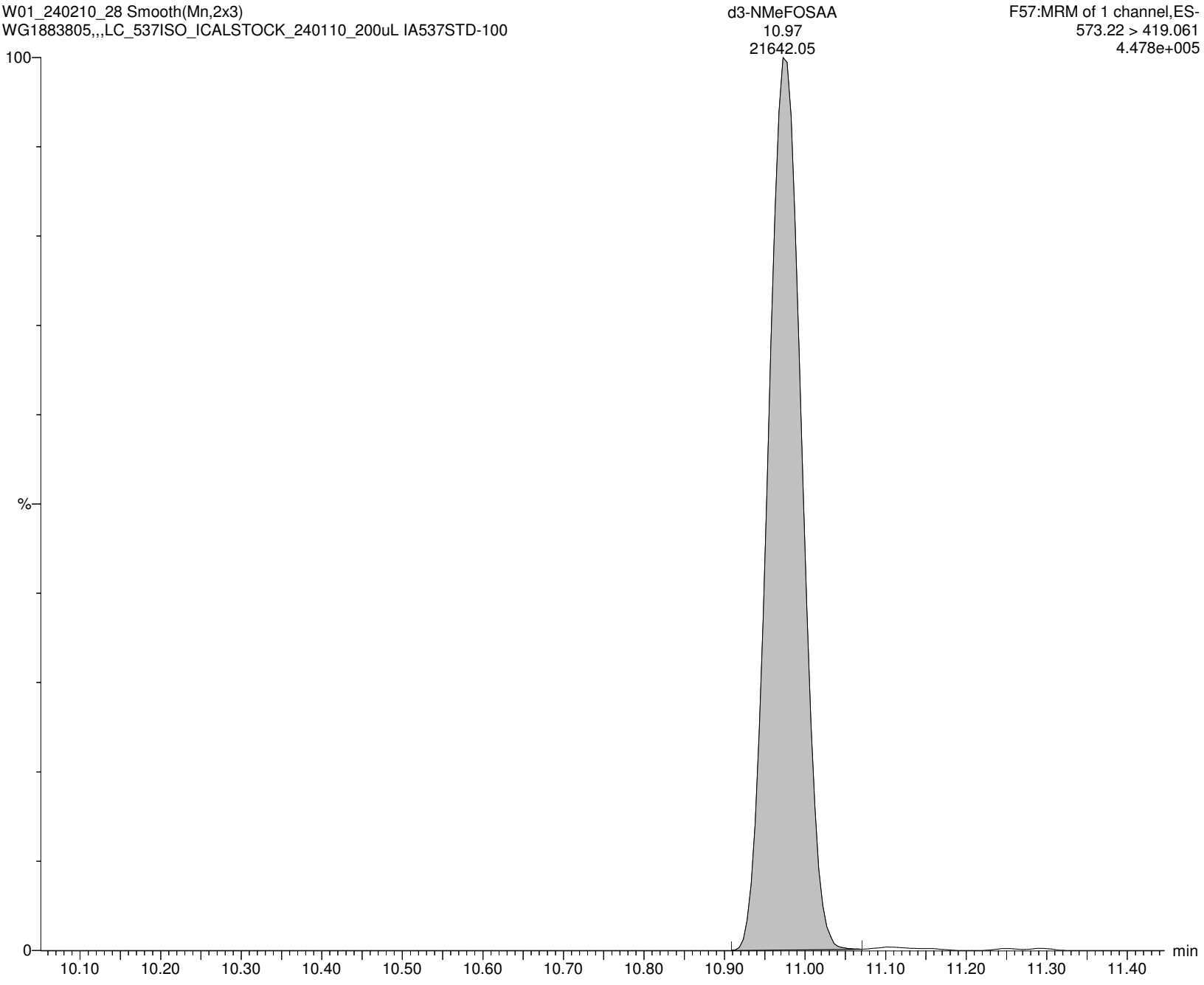
d3-NMeFOSAA



all concentration units in (ng/mL)

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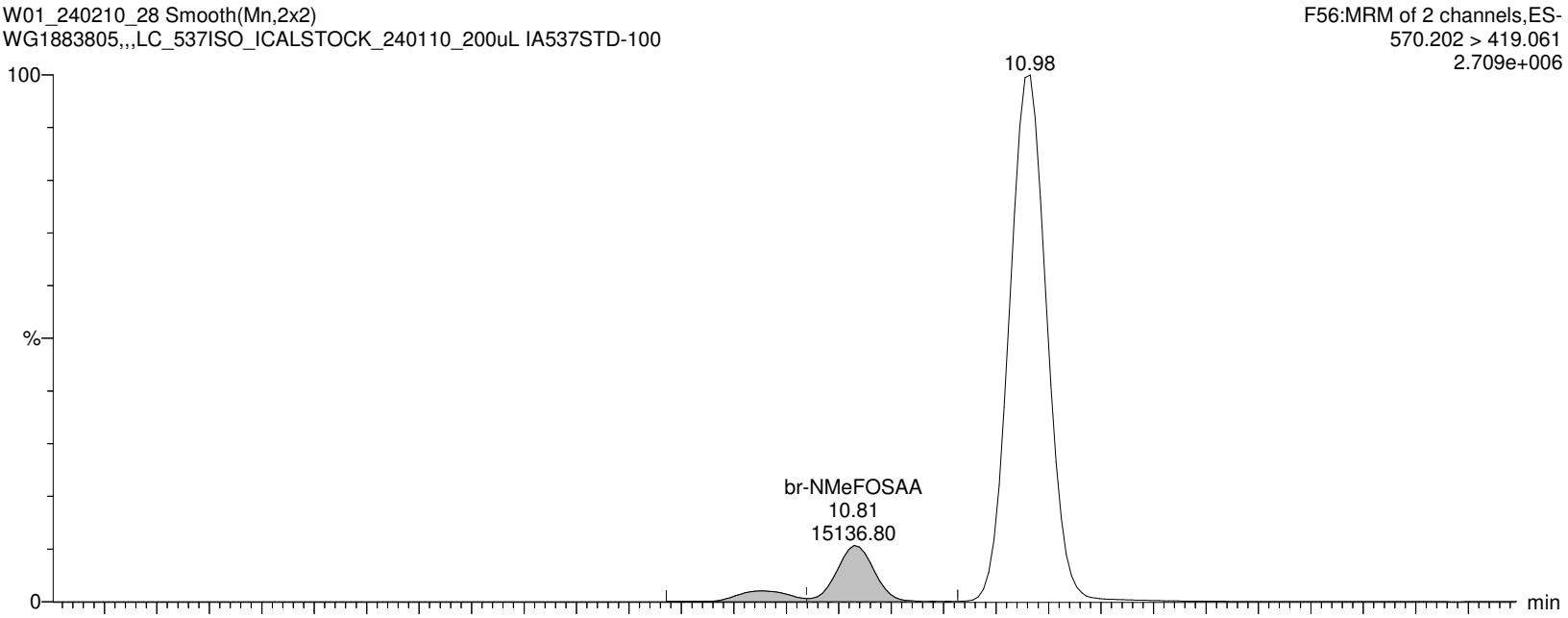

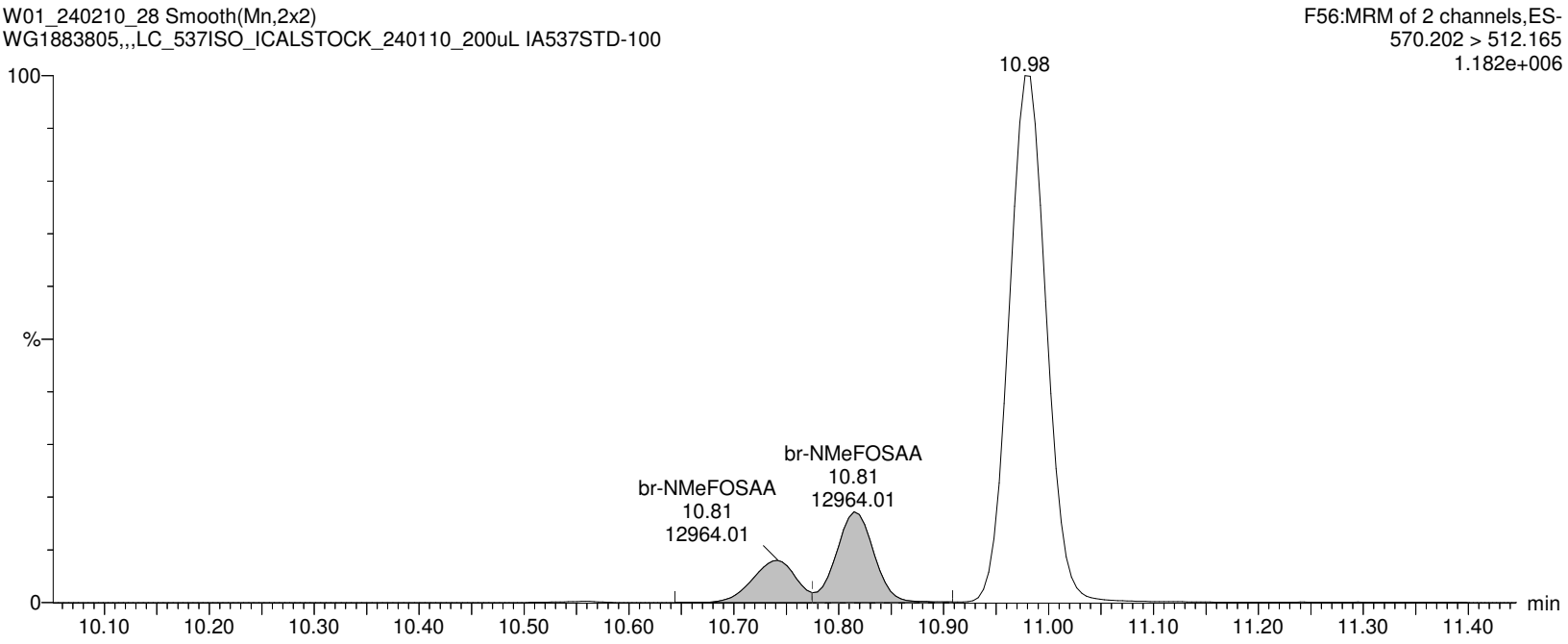

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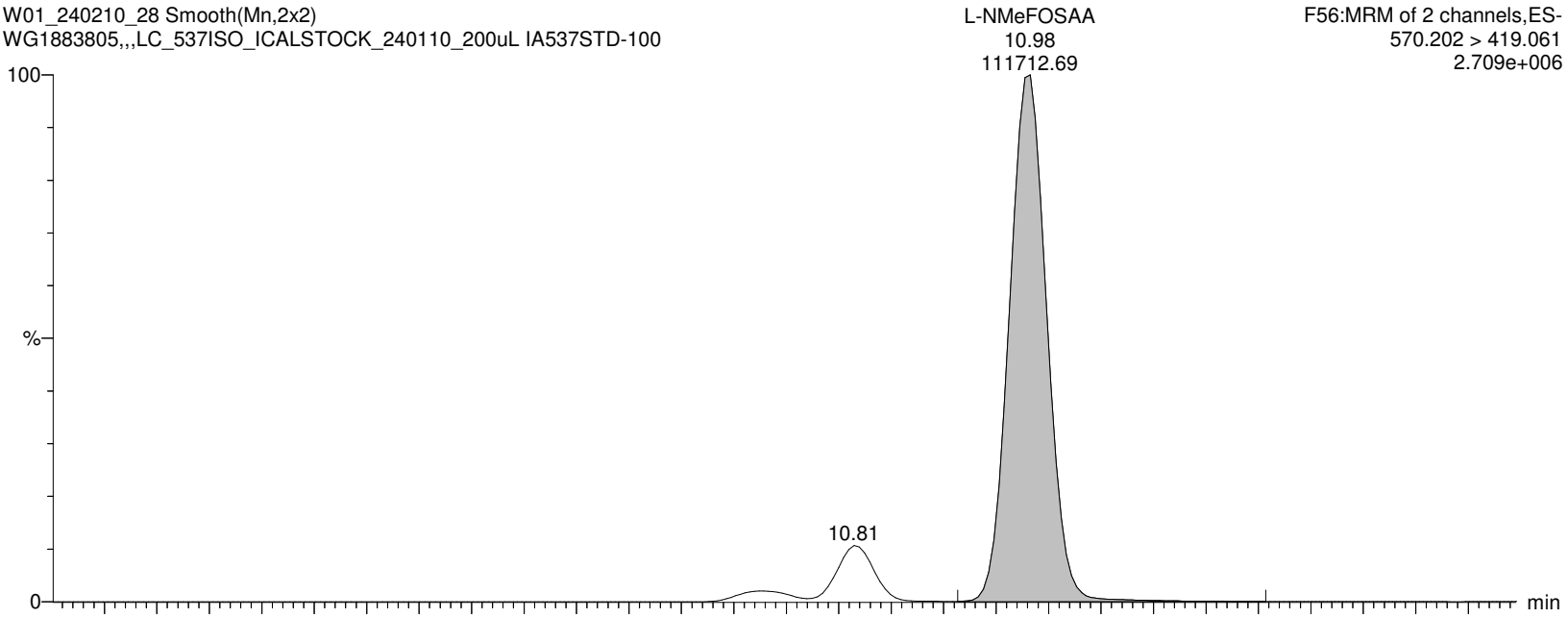

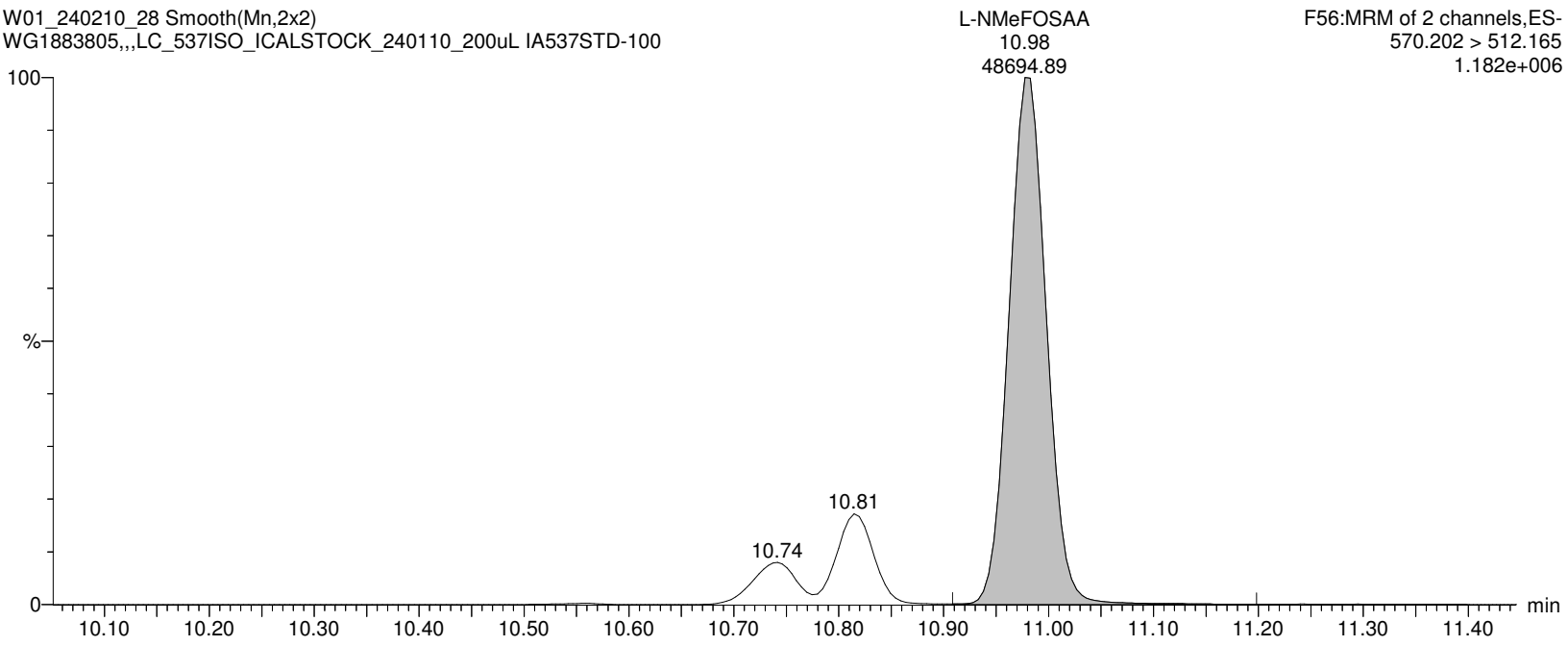

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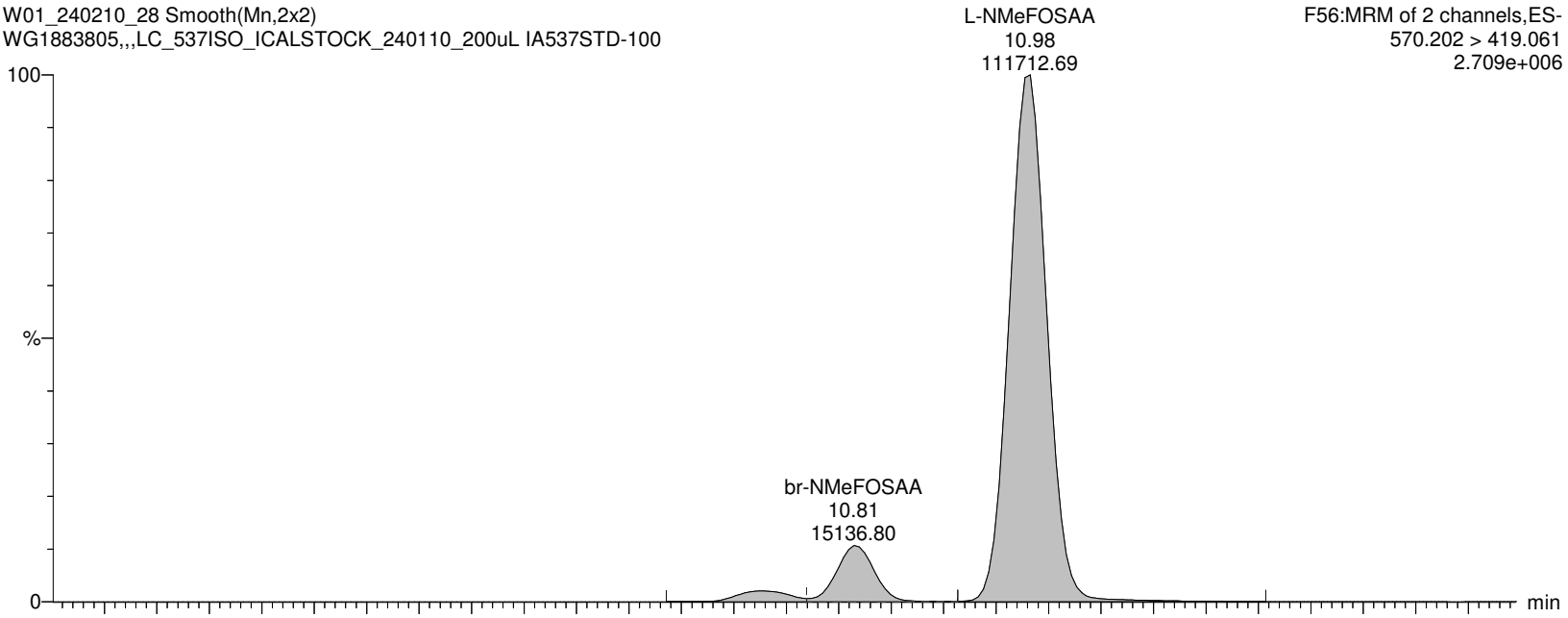

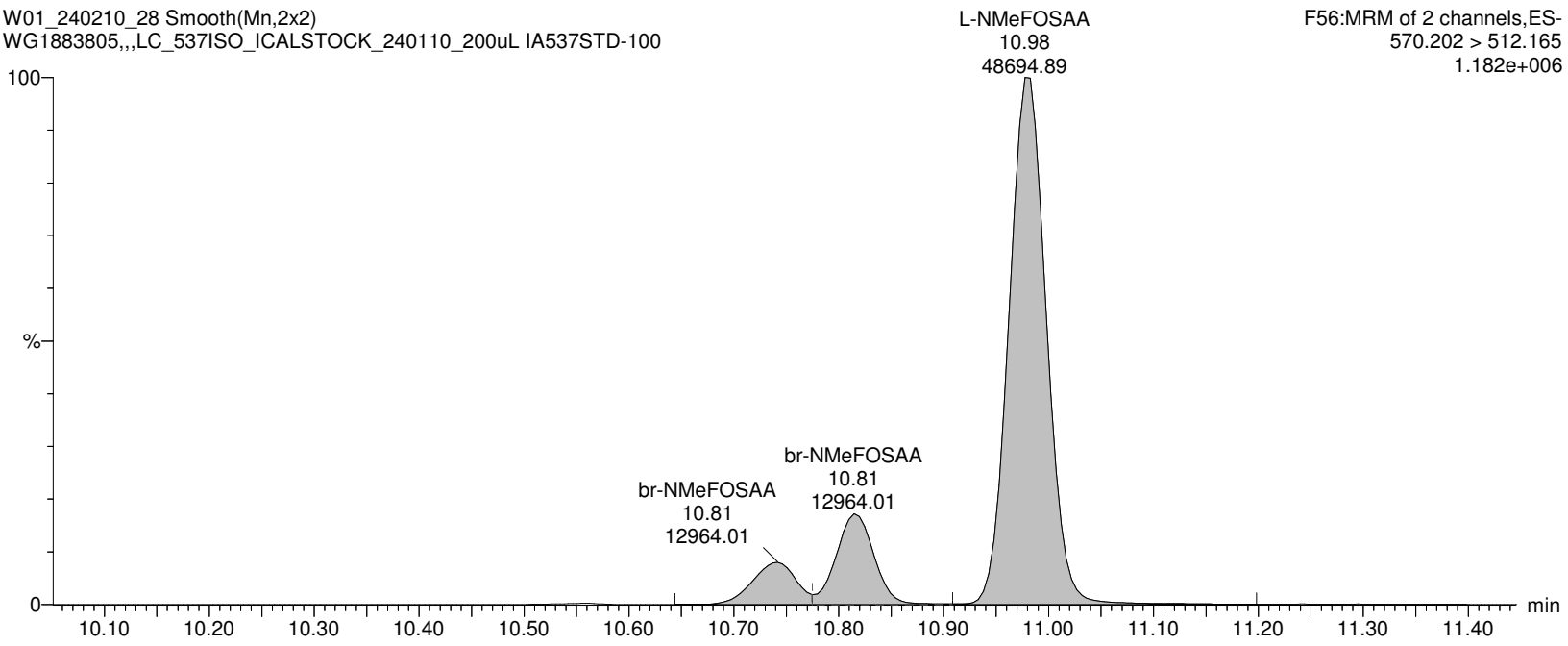

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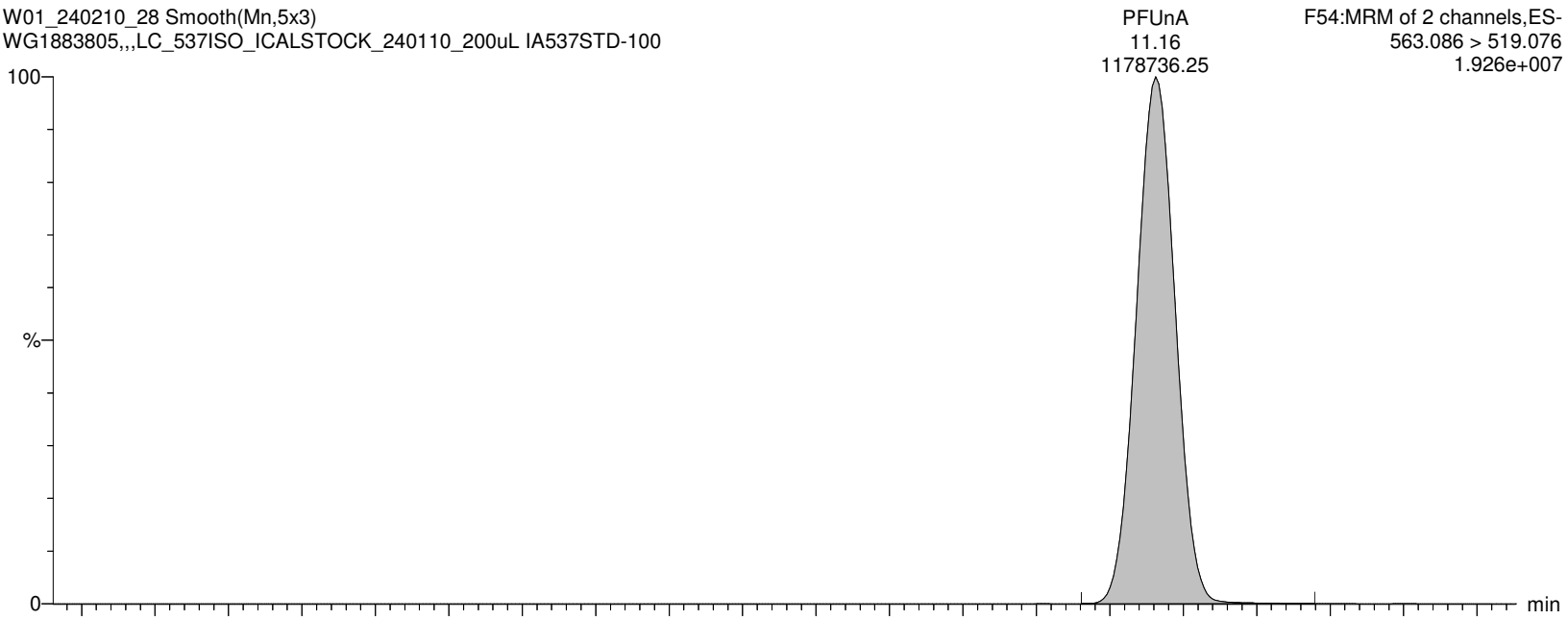
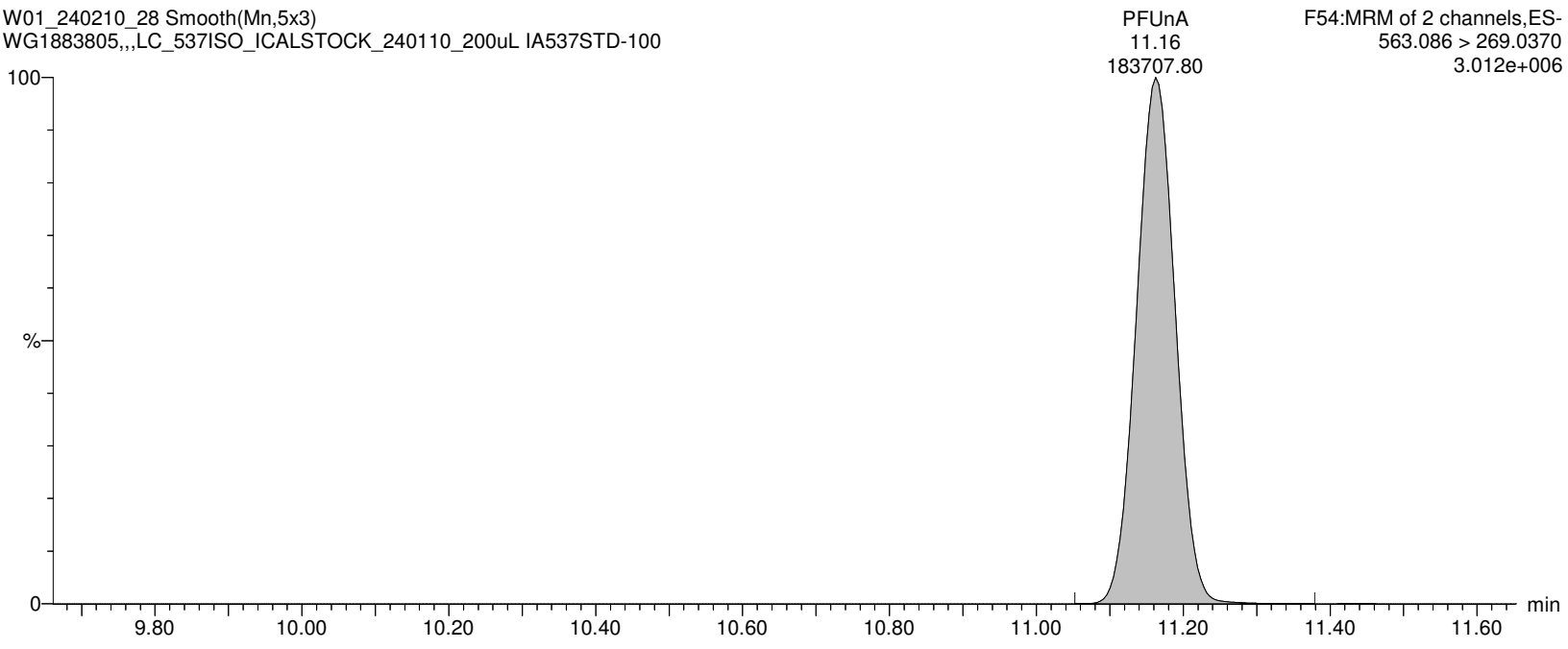
PFUnA





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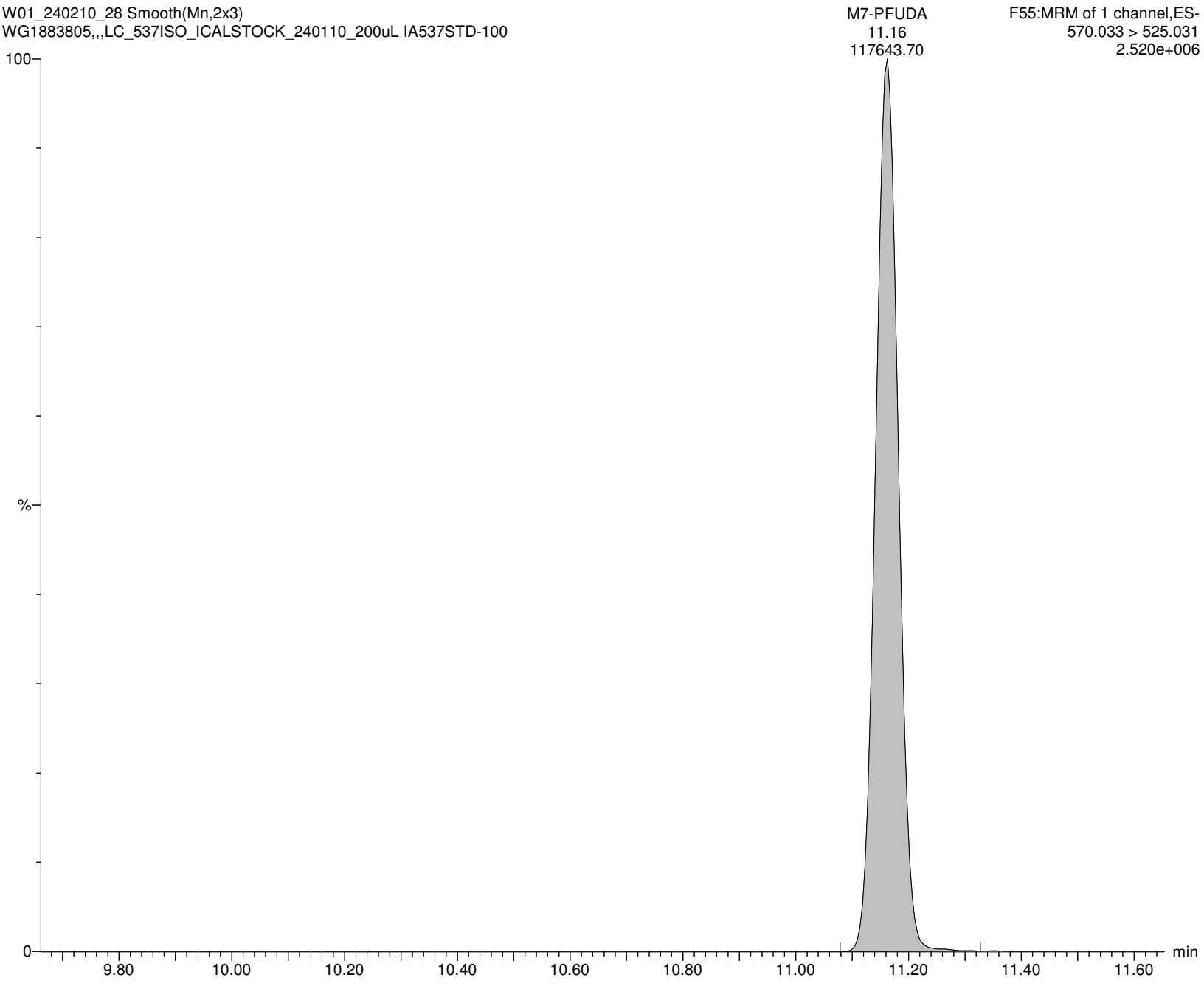
M7-PFUDA



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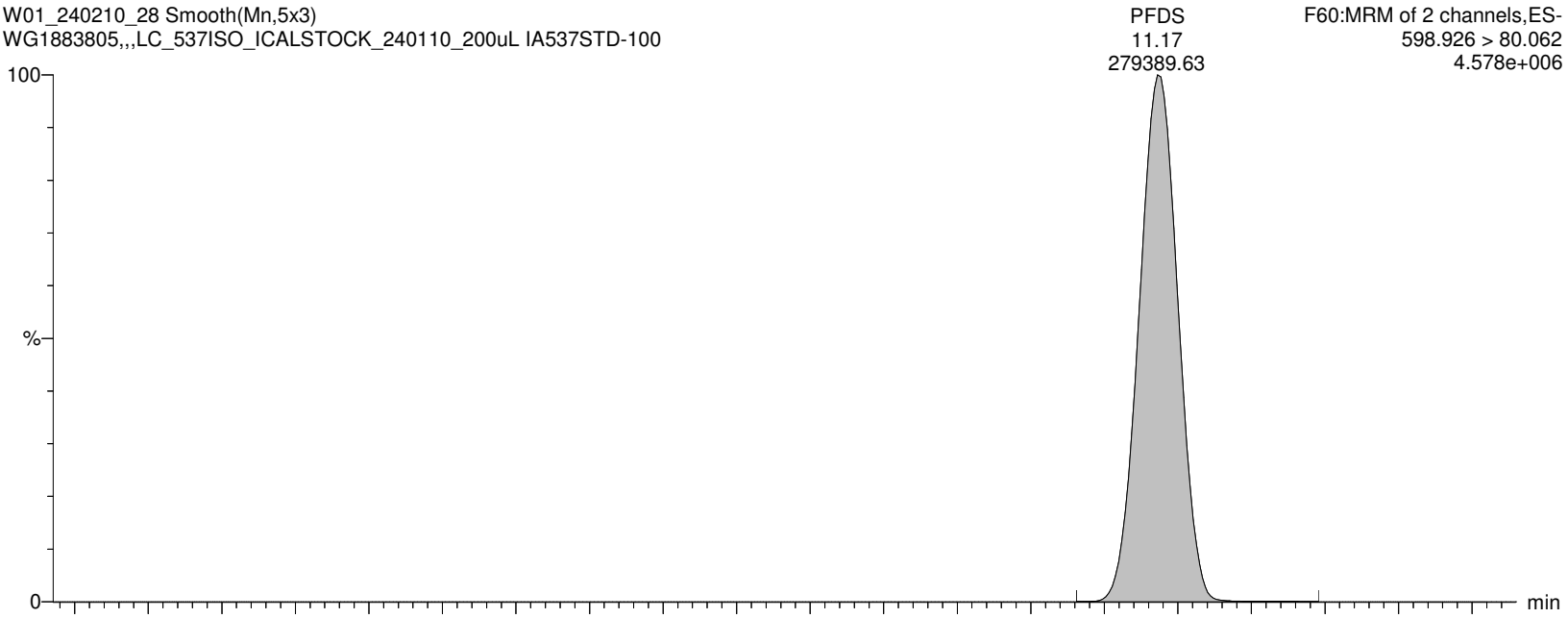
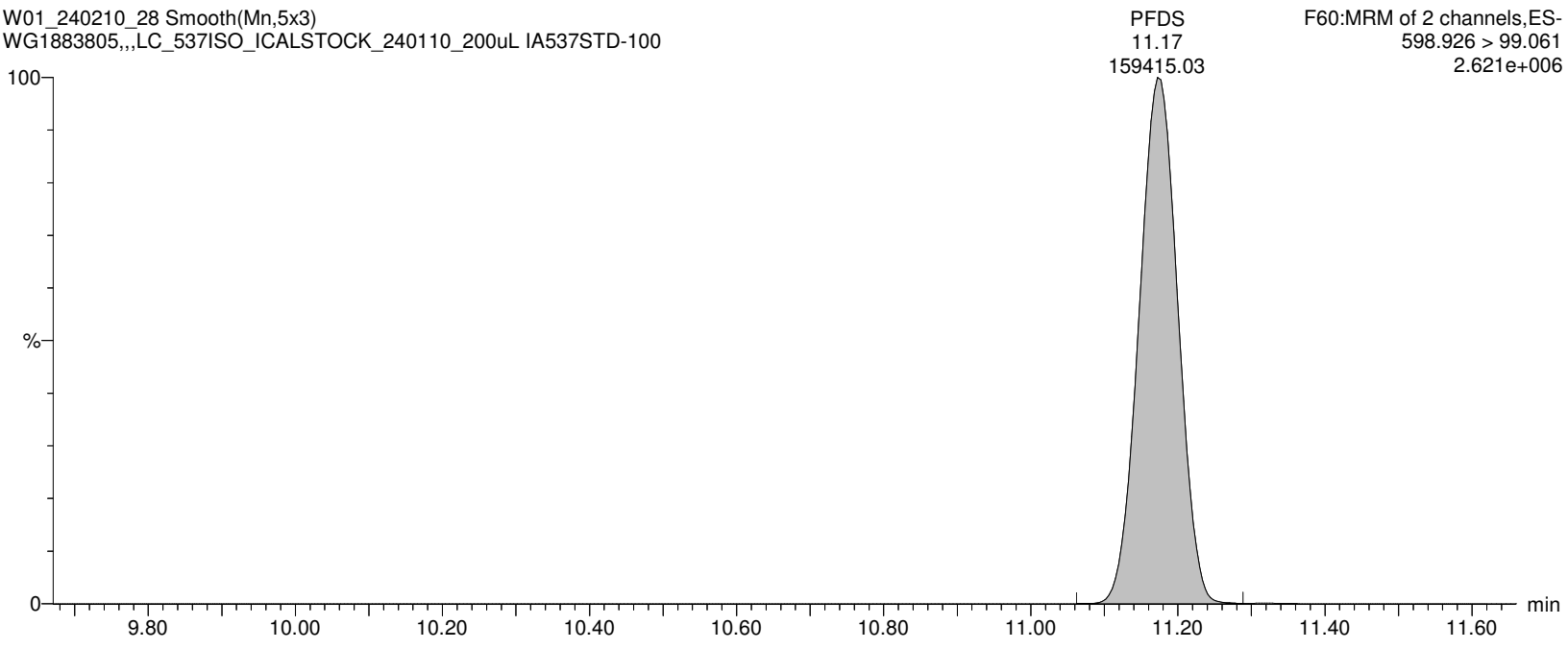
PFDS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

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ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
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Vial: 1:B,8
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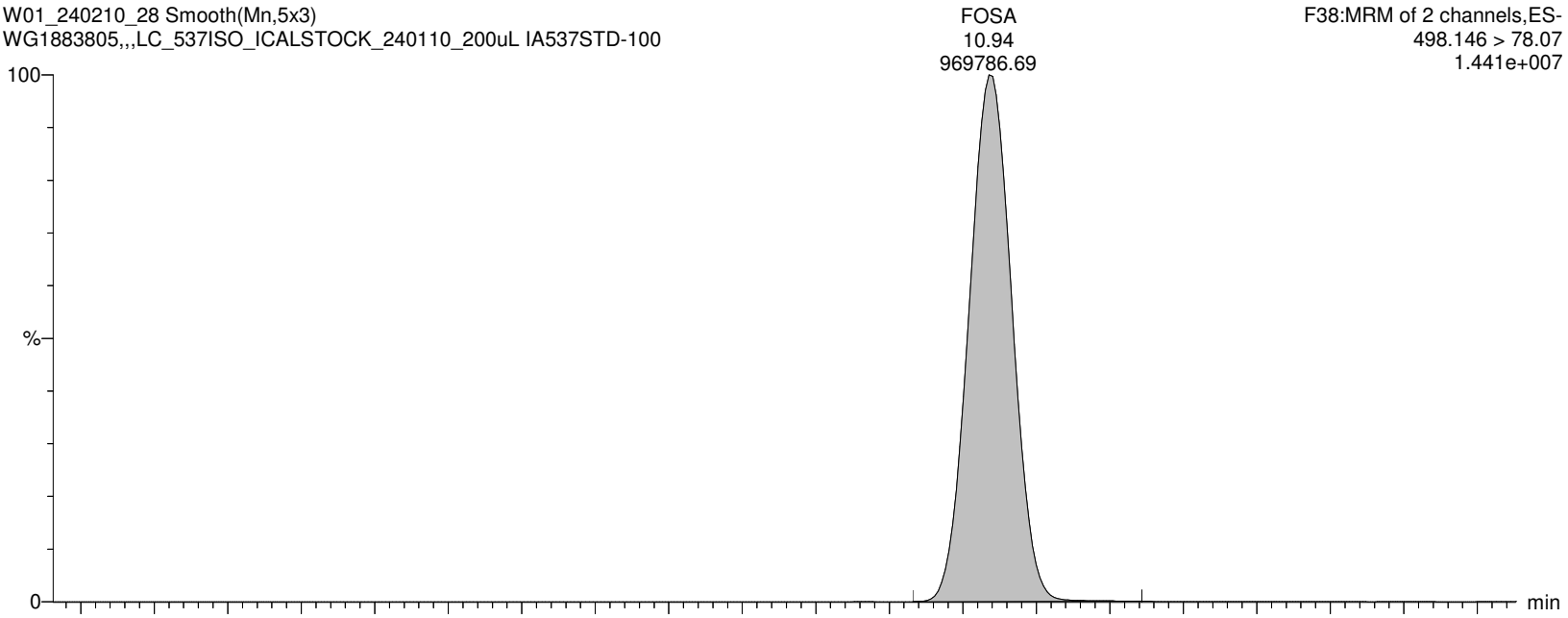

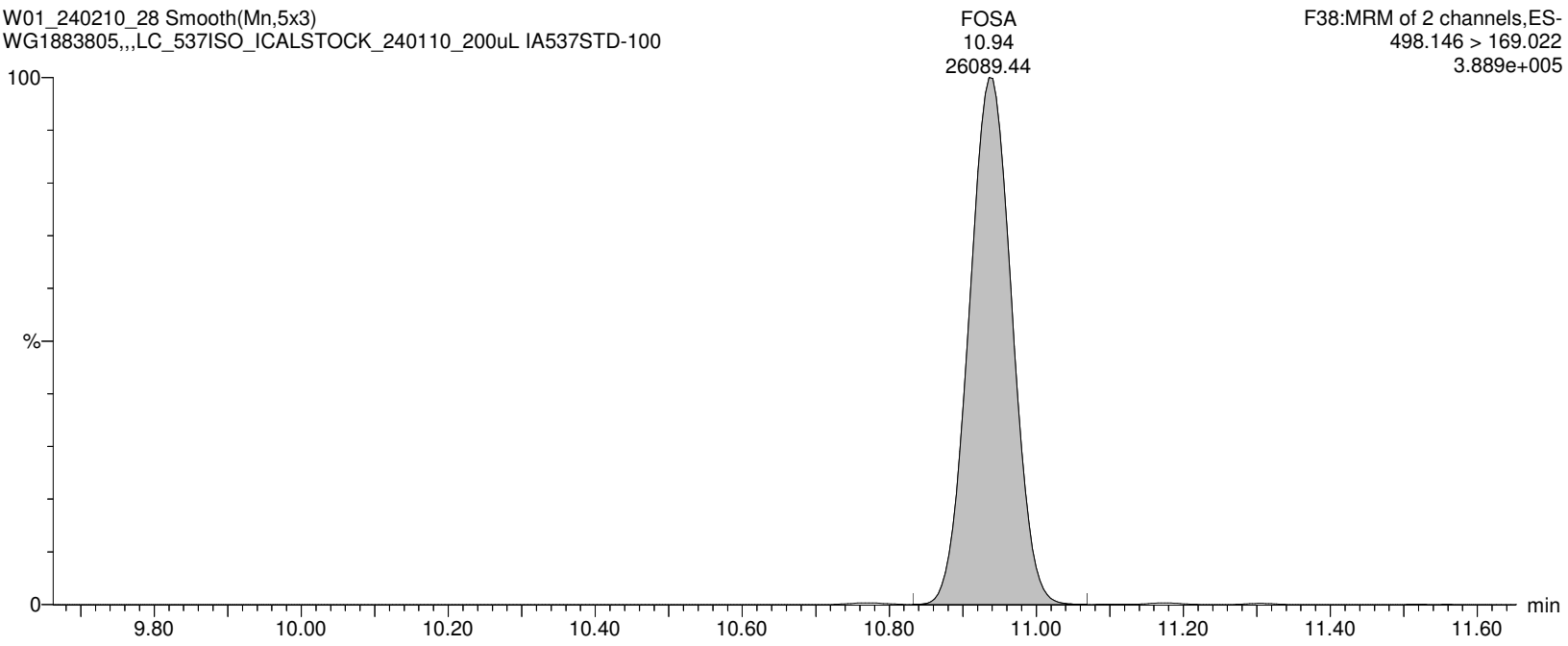

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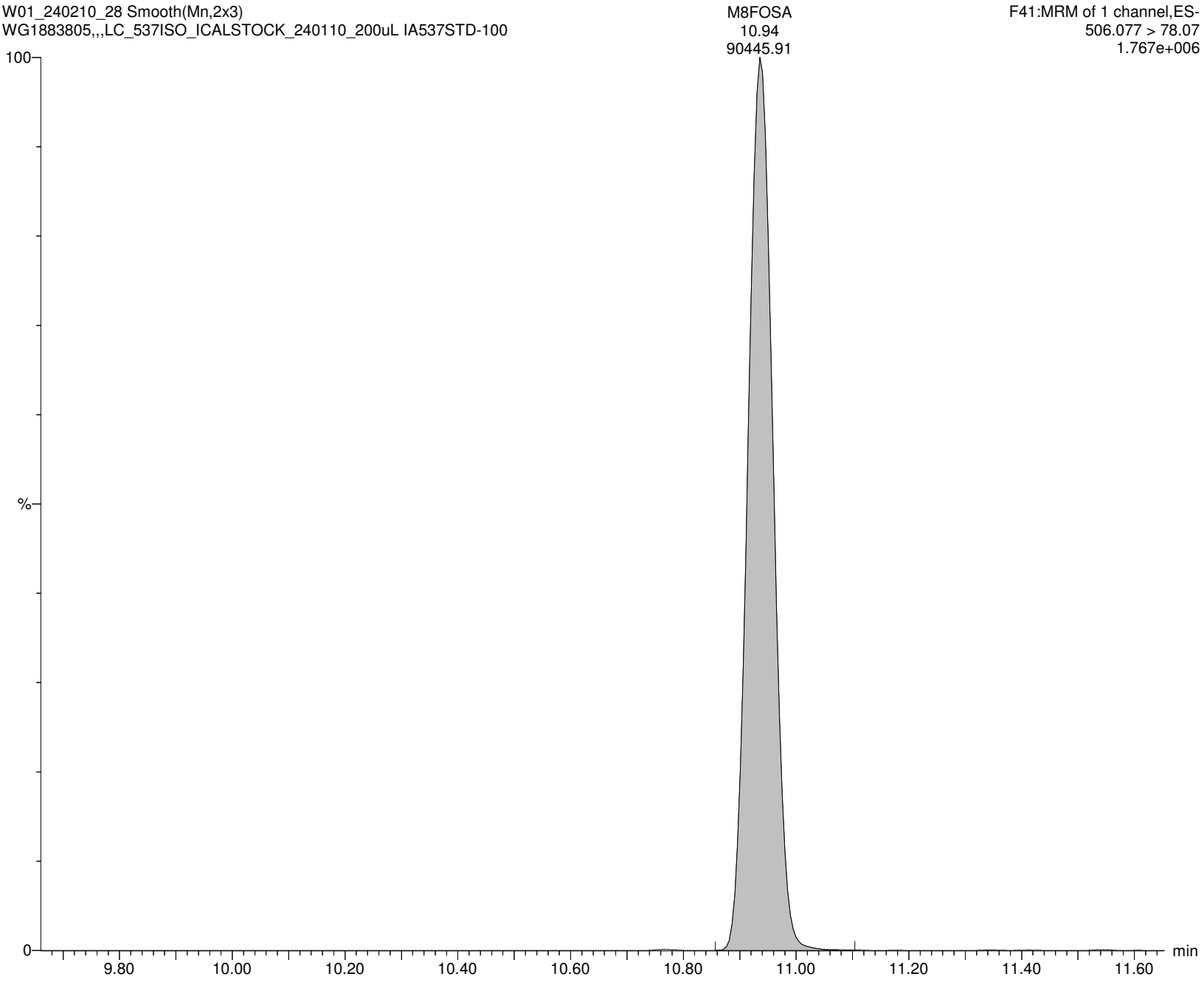

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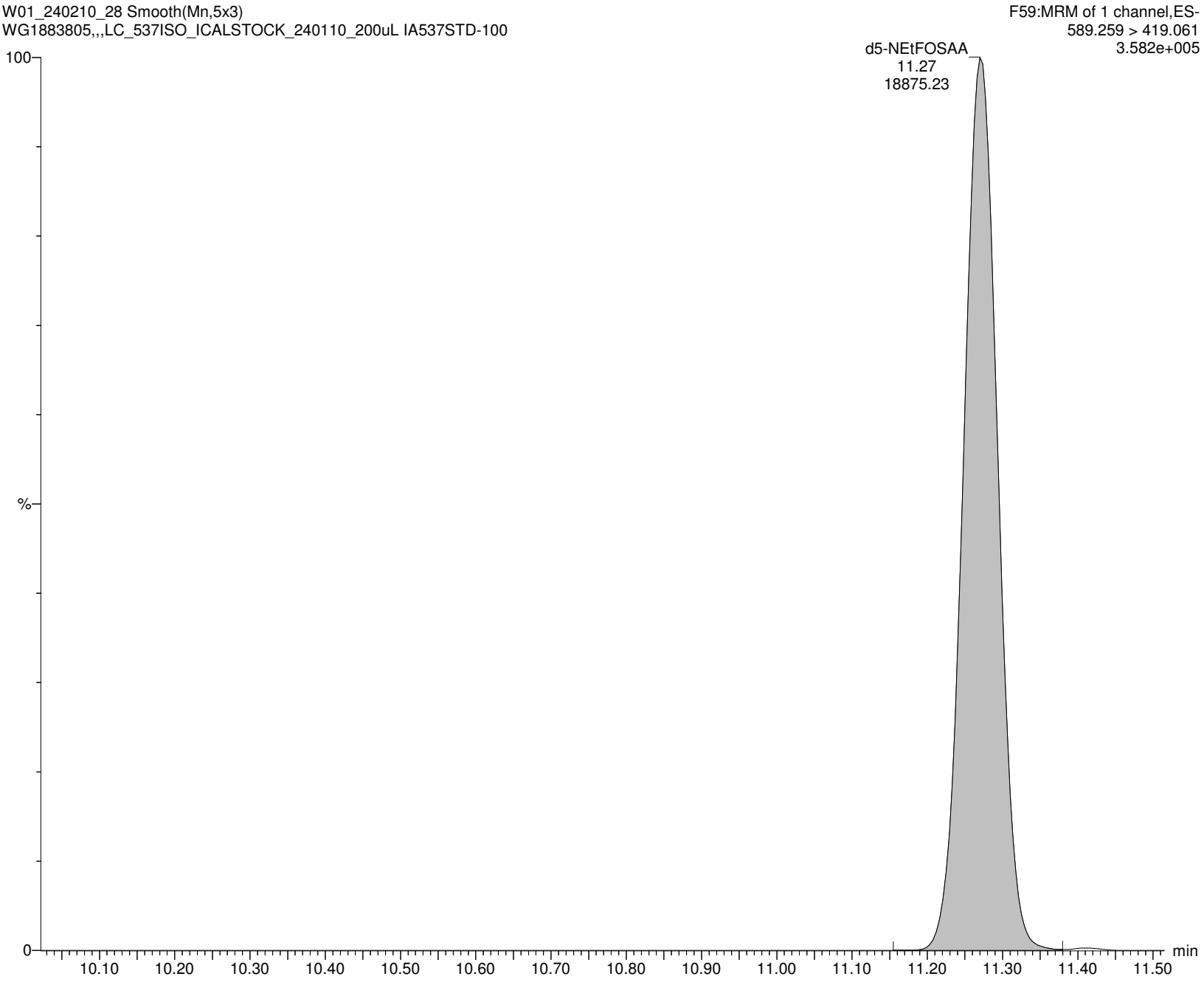

all concentration units in (ng/mL)

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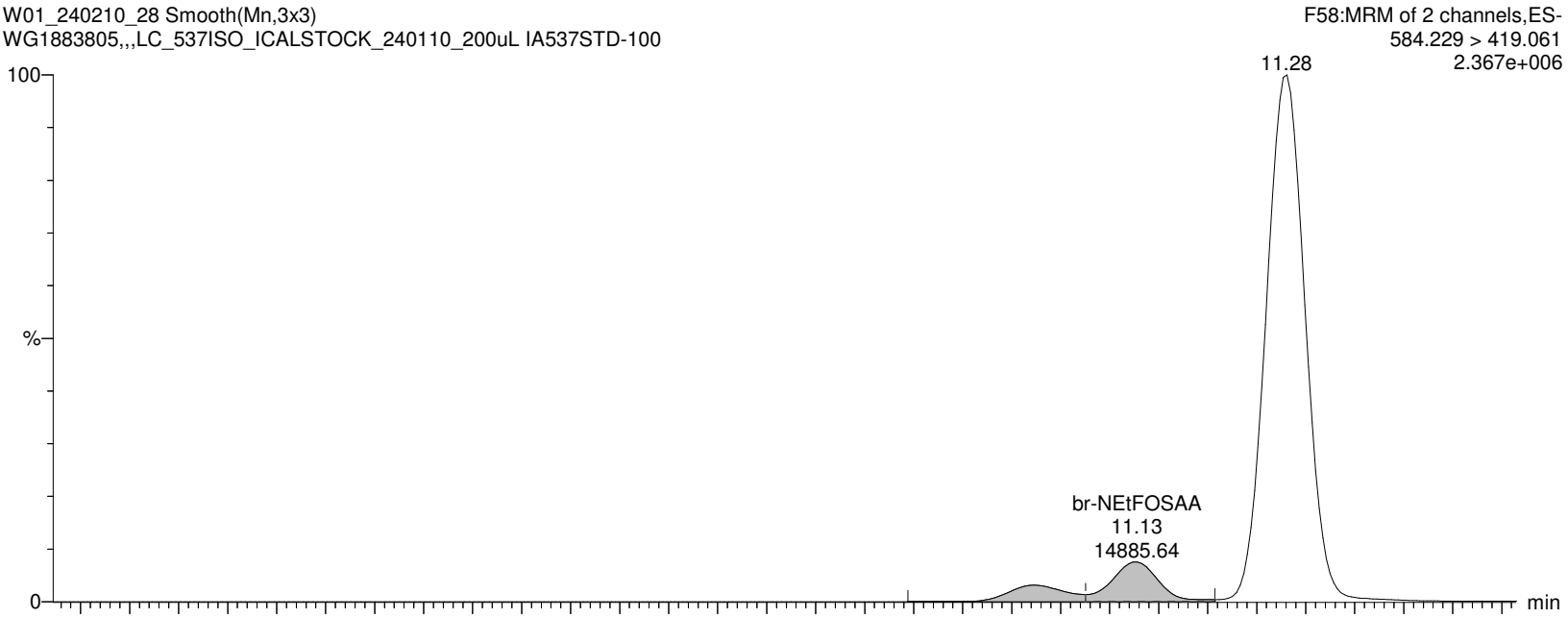

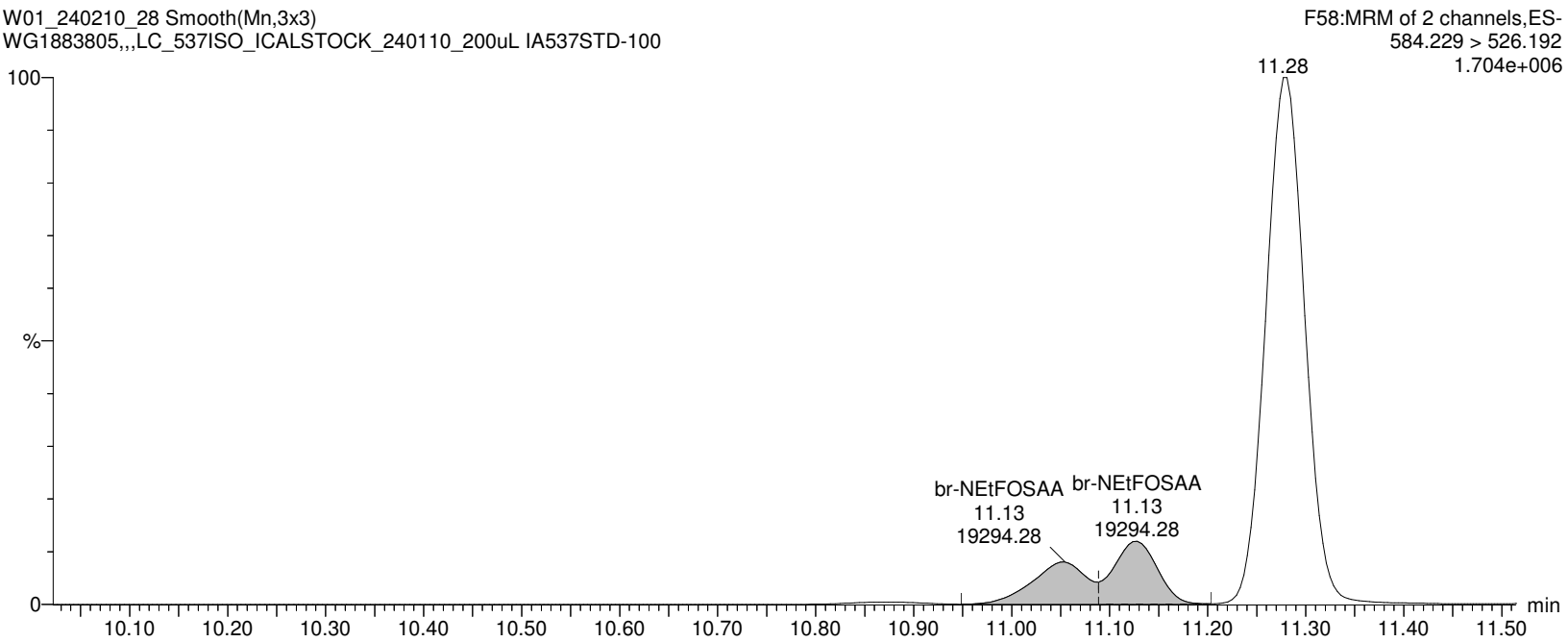

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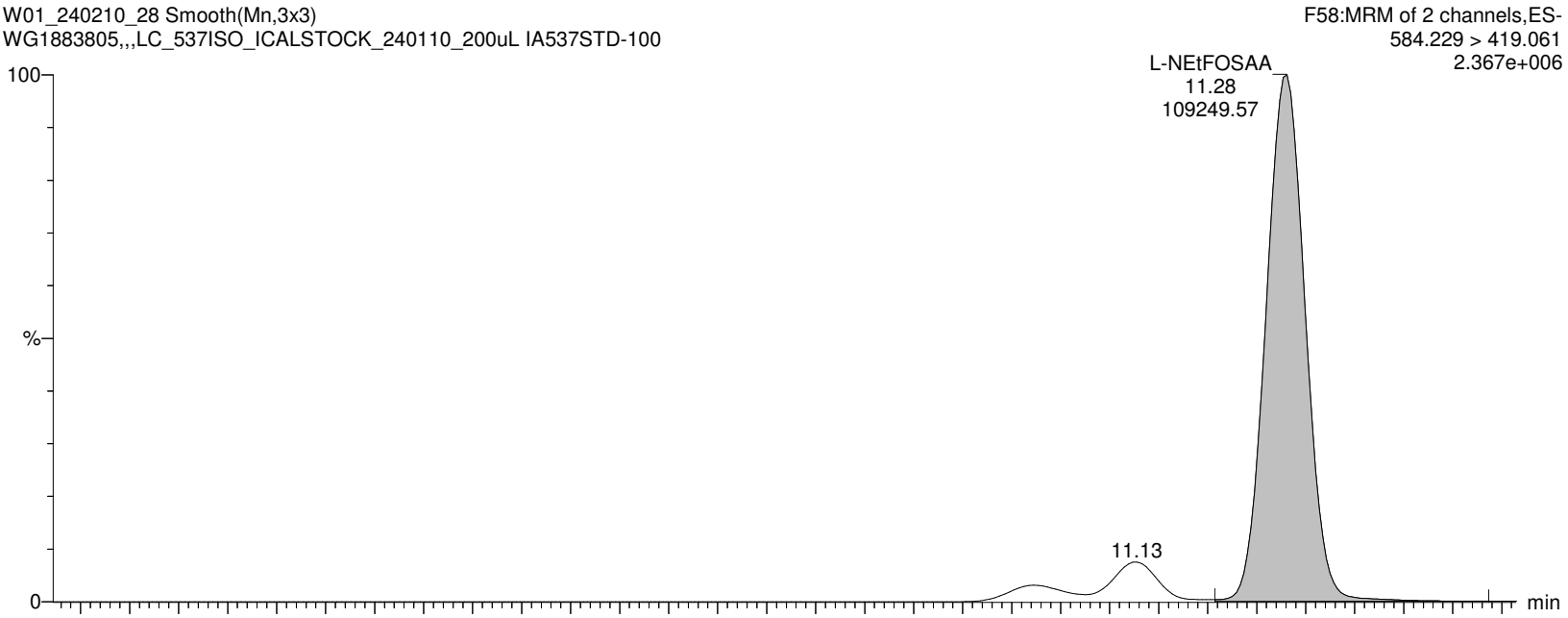
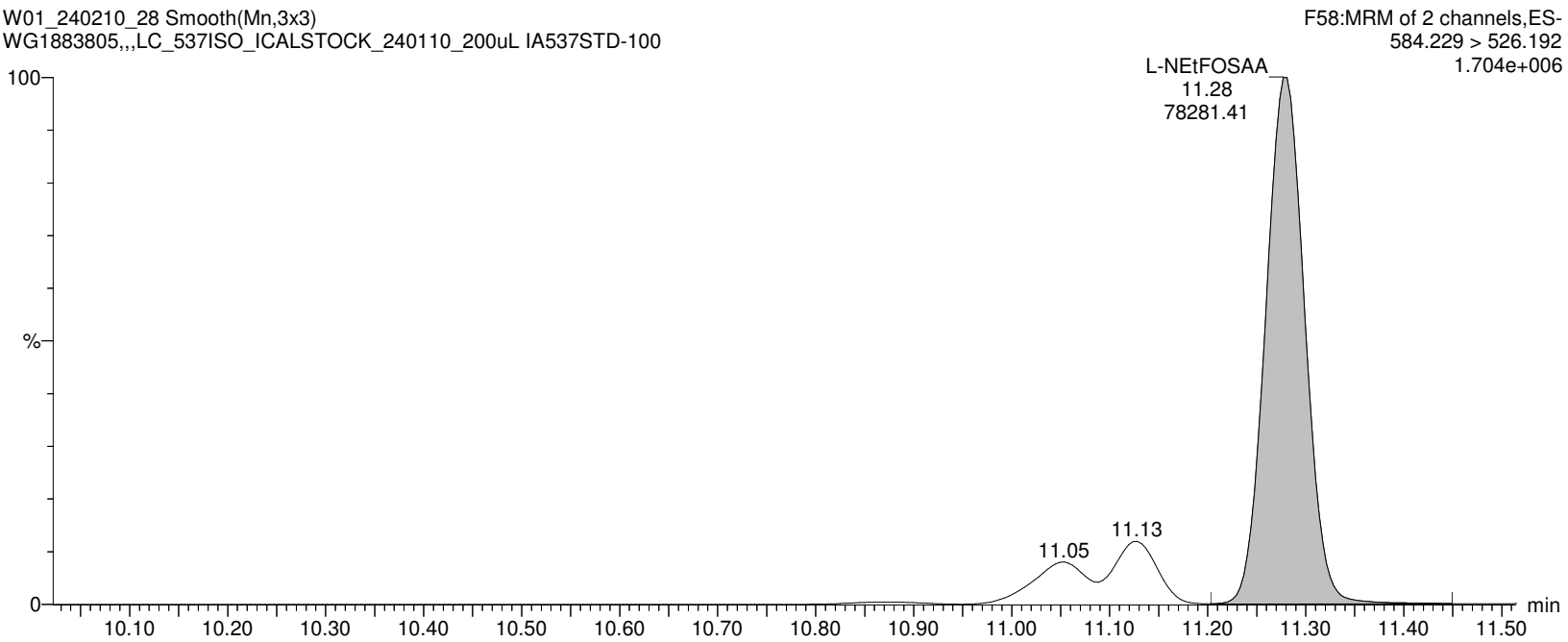
L-NEtFOSAA





all concentration units in (ng/mL)

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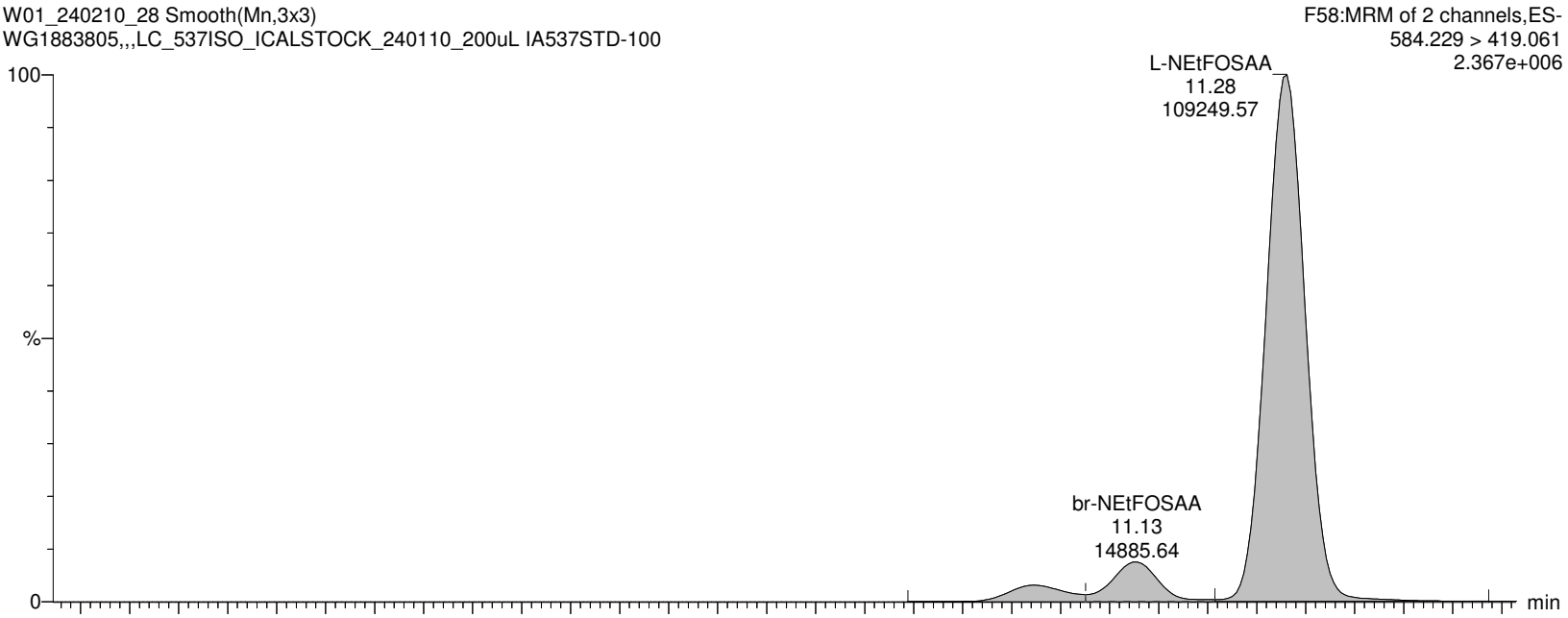

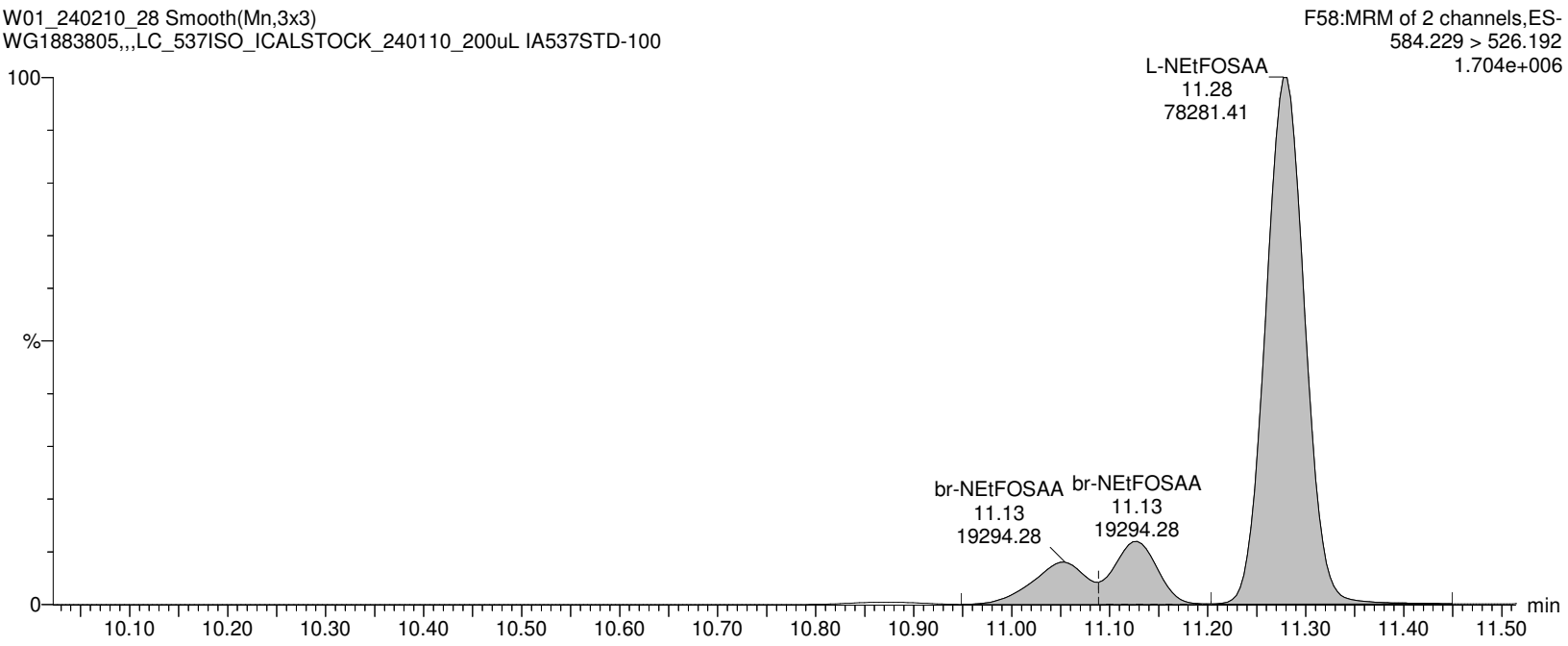

all concentration units in (ng/mL)

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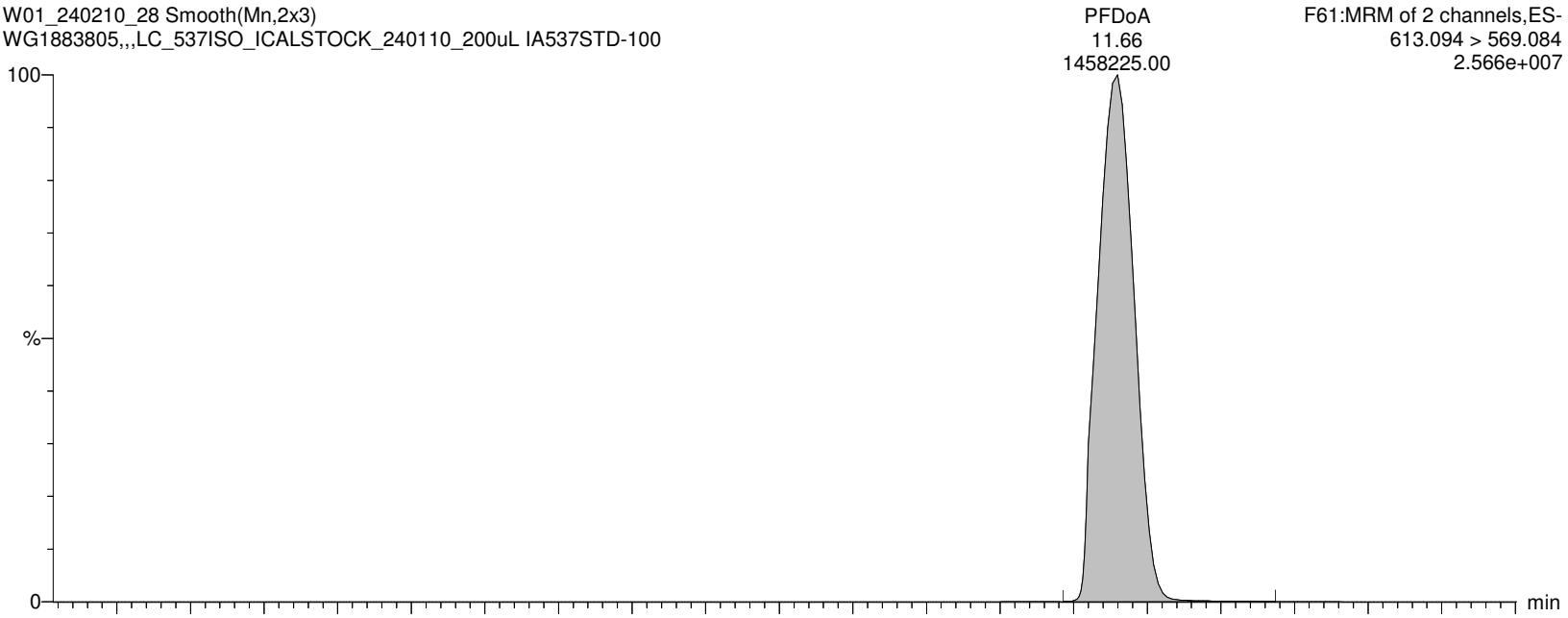

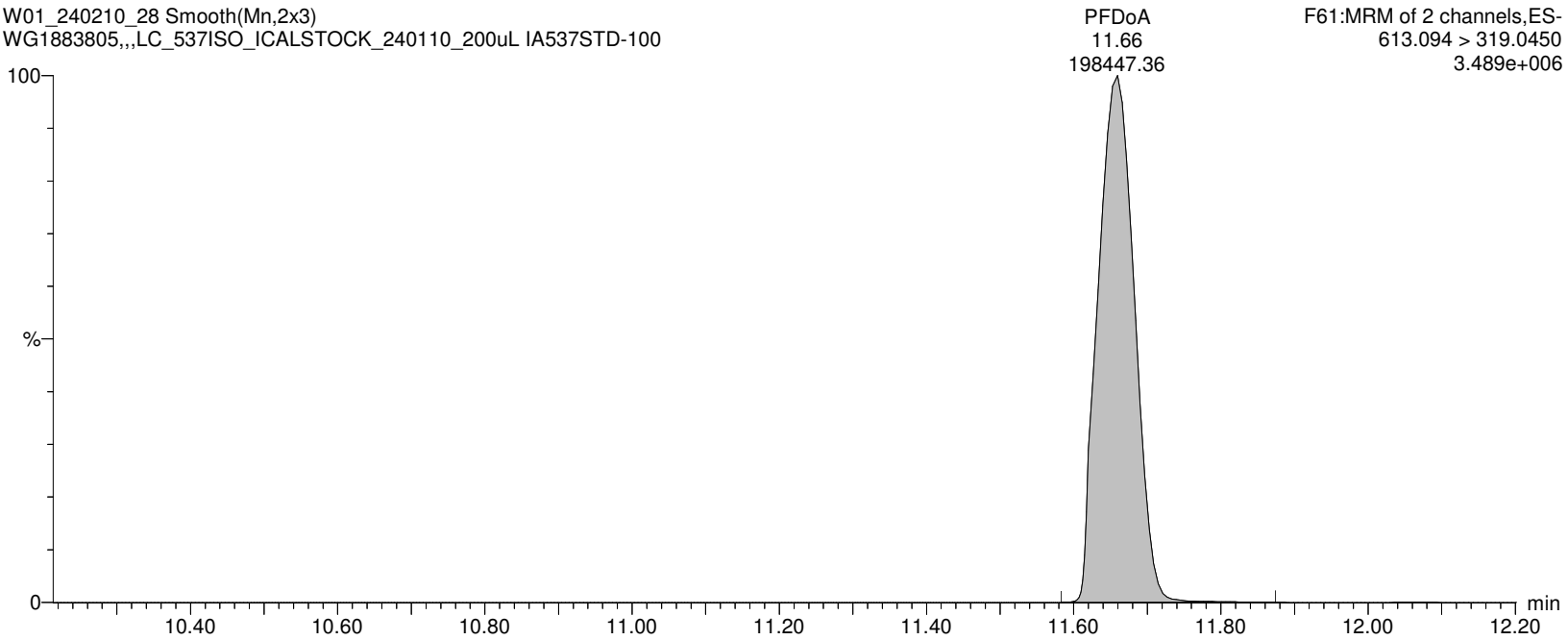

all concentration units in (ng/mL)

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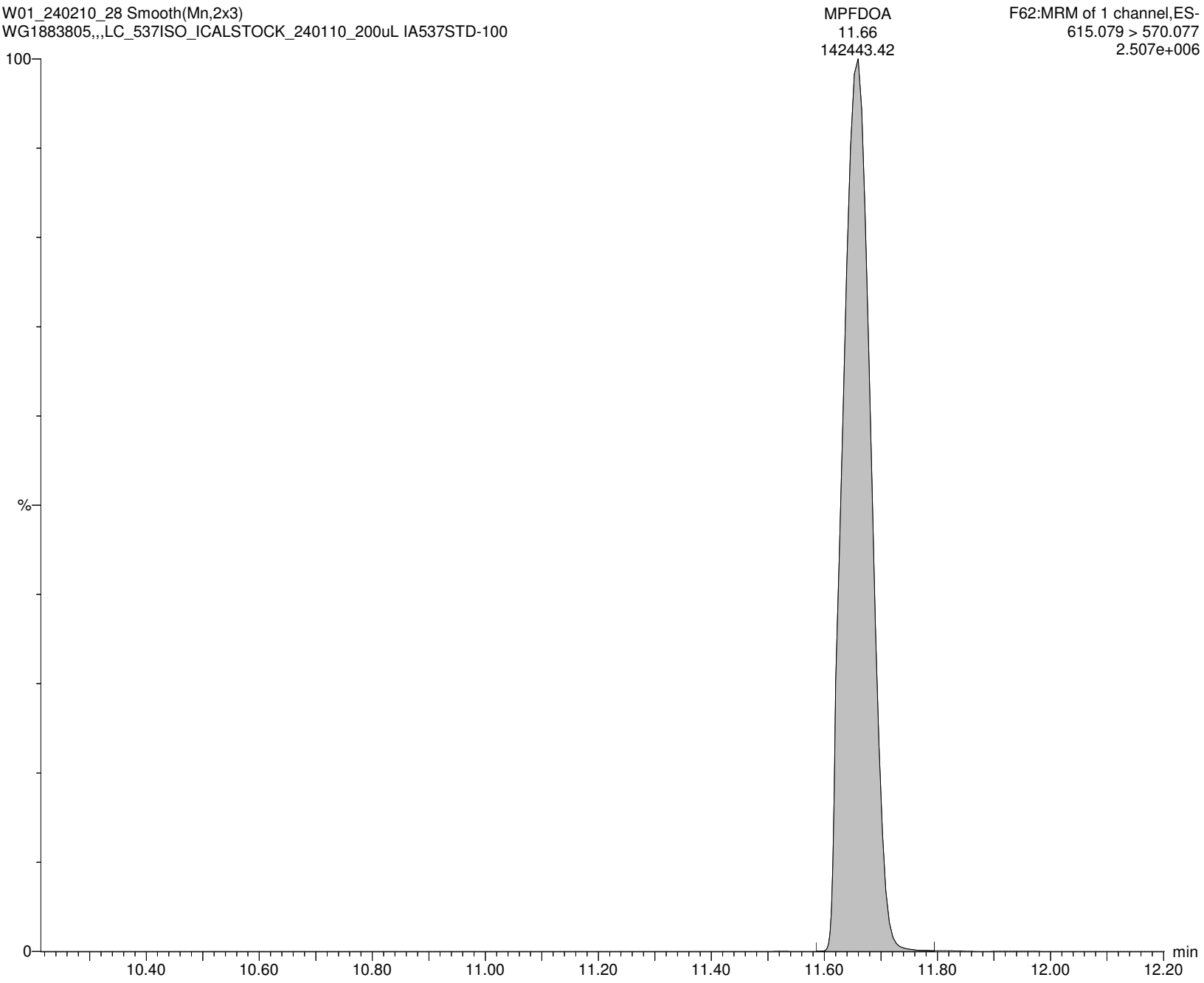

all concentration units in (ng/mL)

Alpha Analytical Inc.
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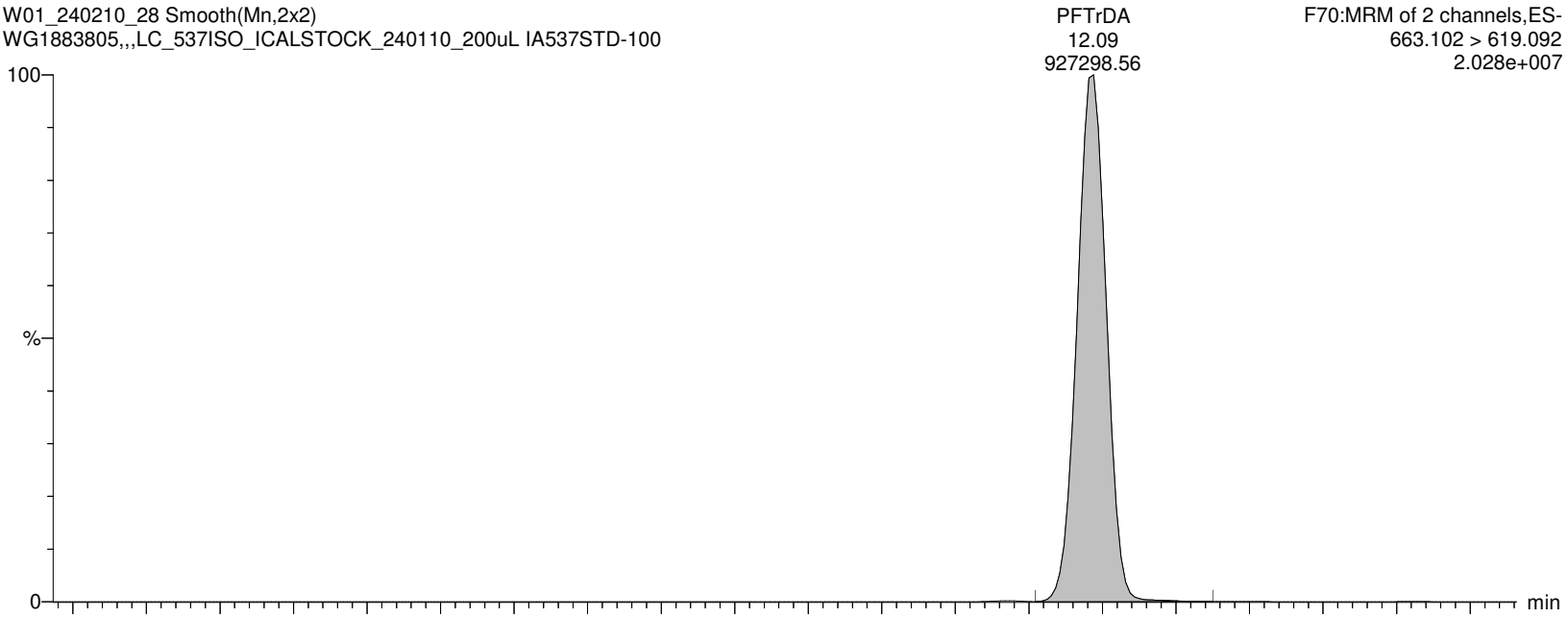

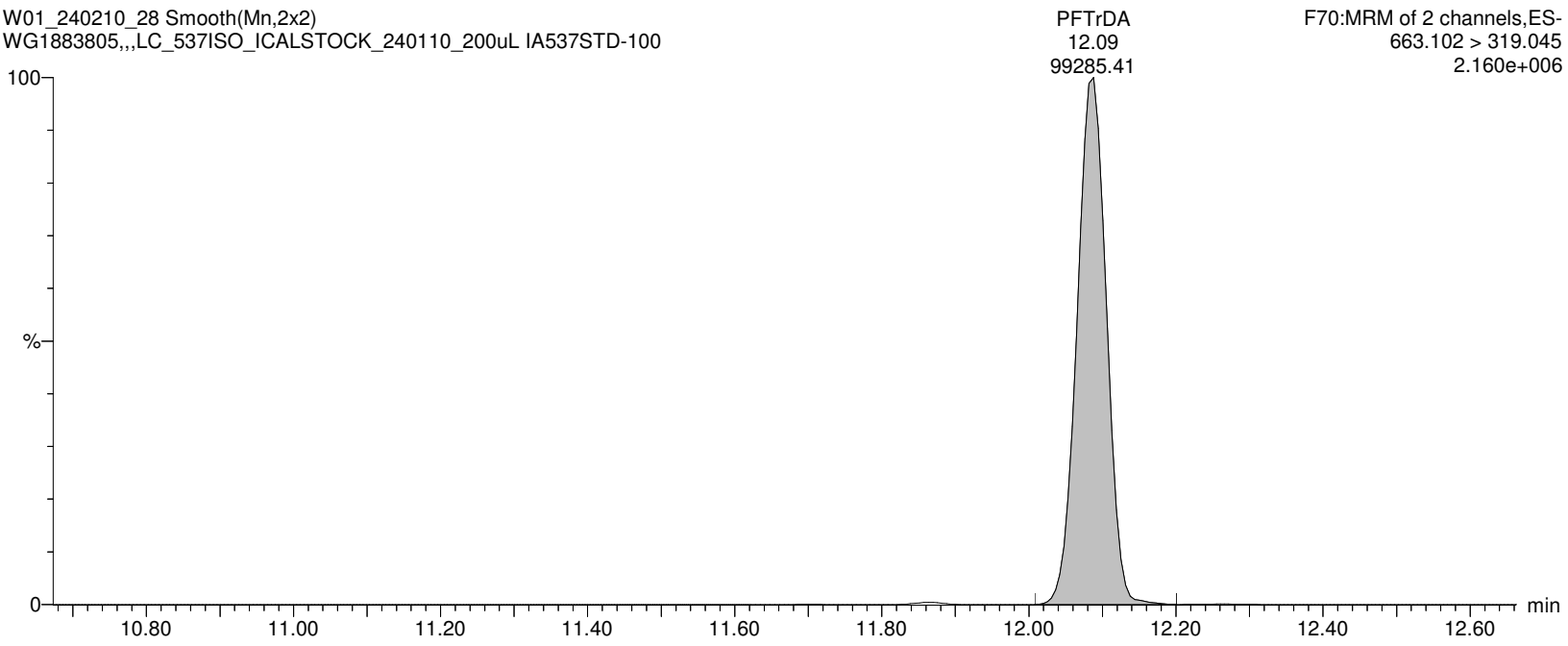

all concentration units in (ng/mL)

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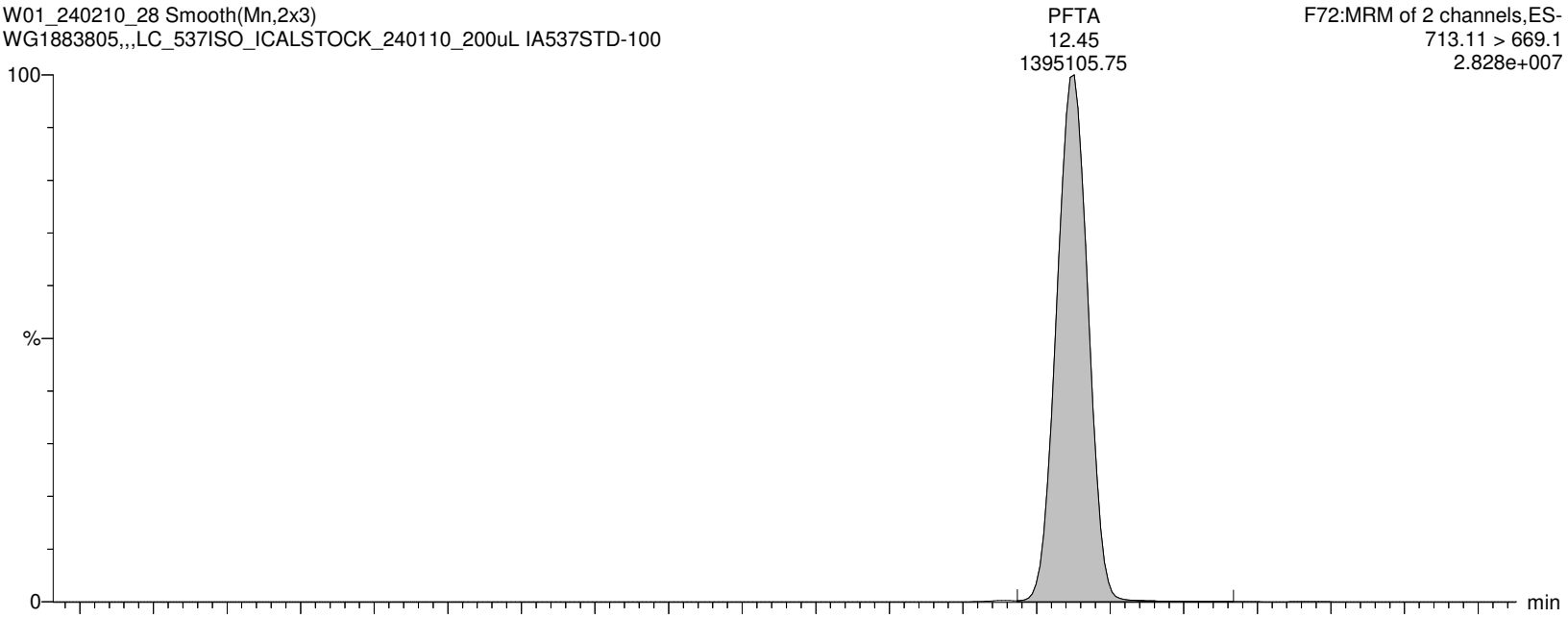

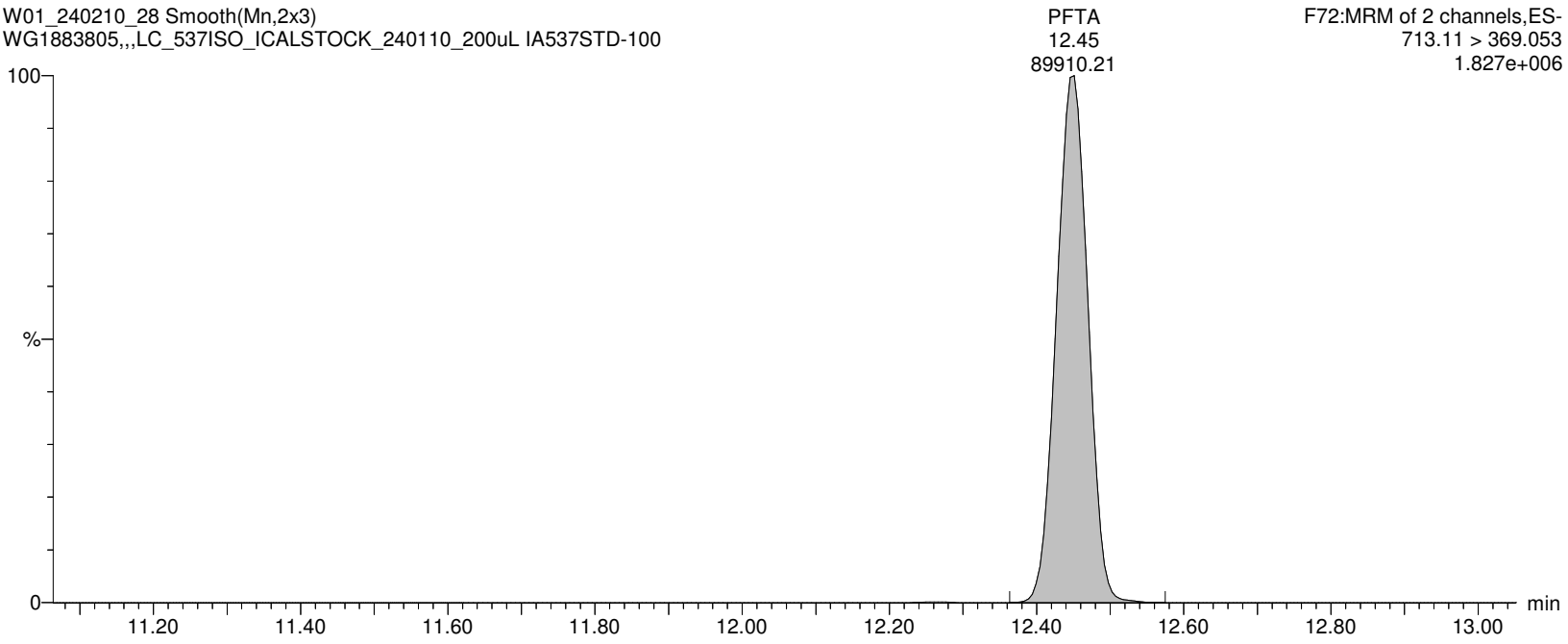

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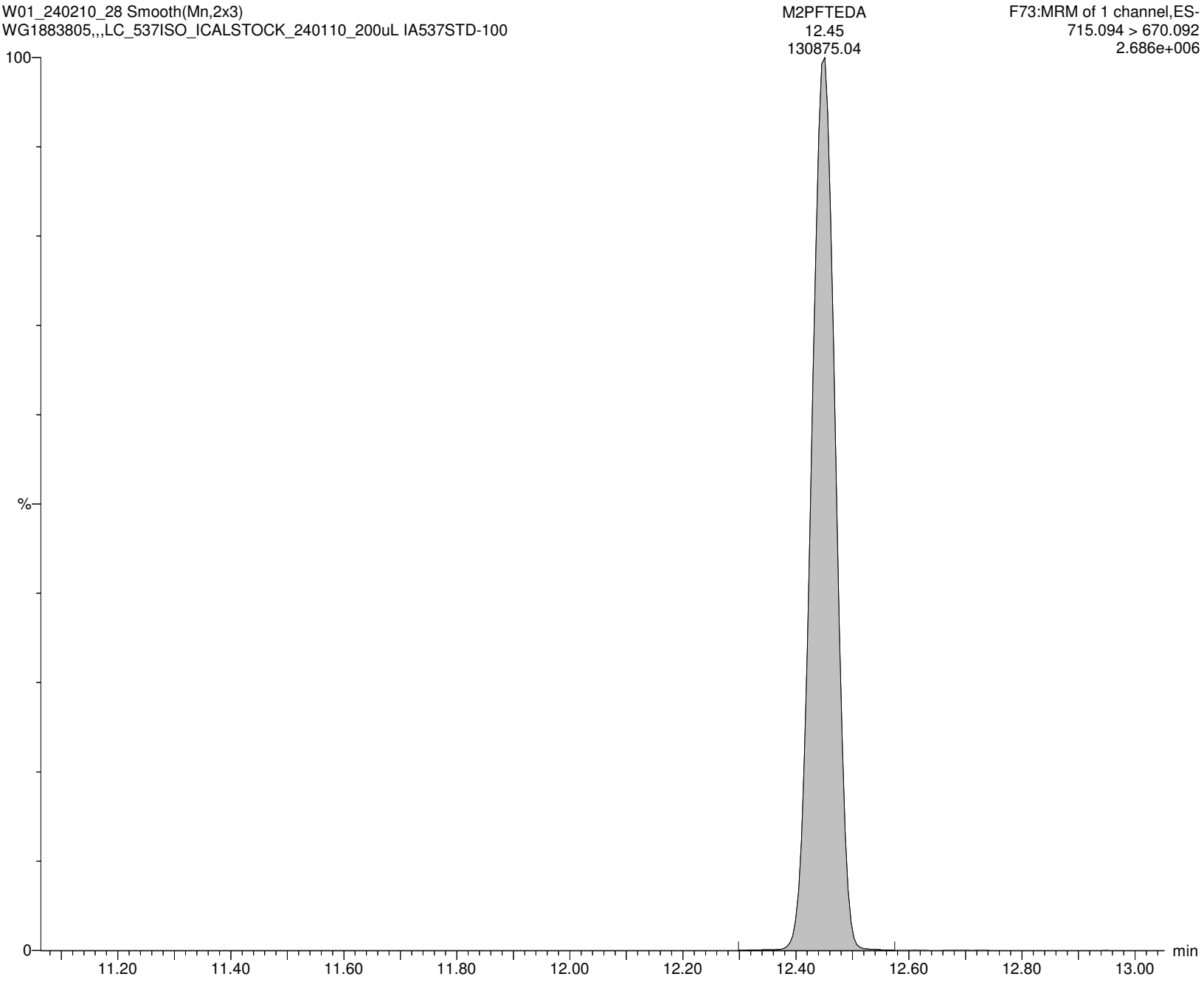

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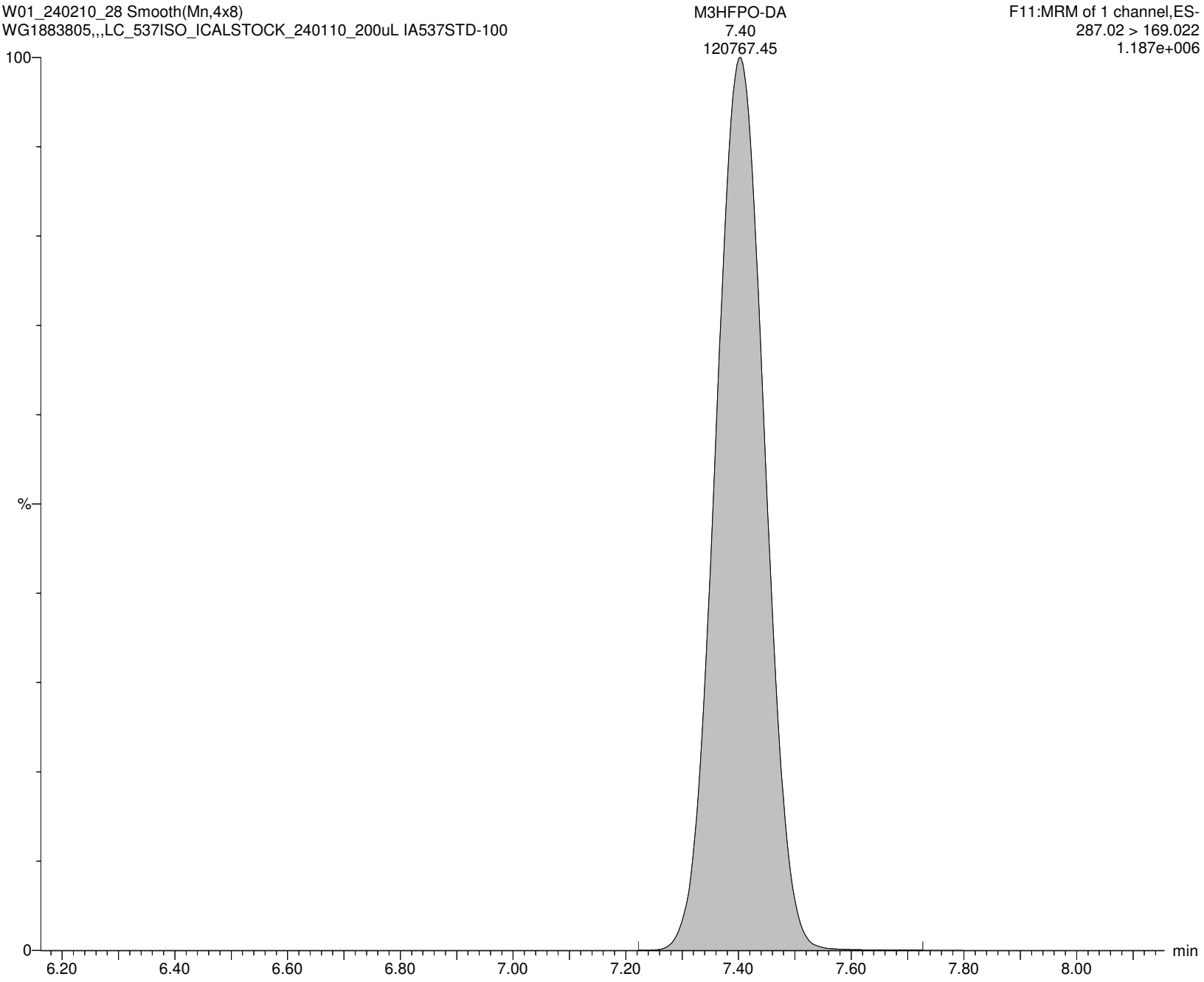

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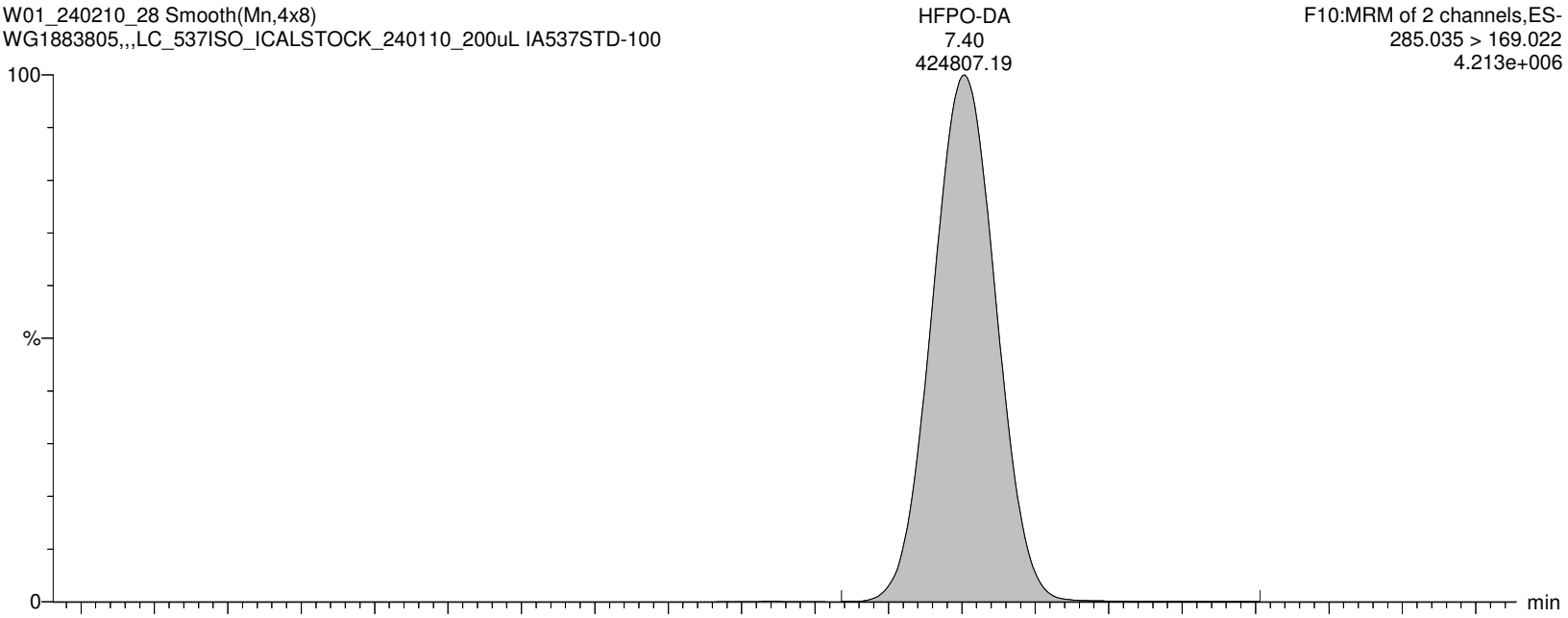
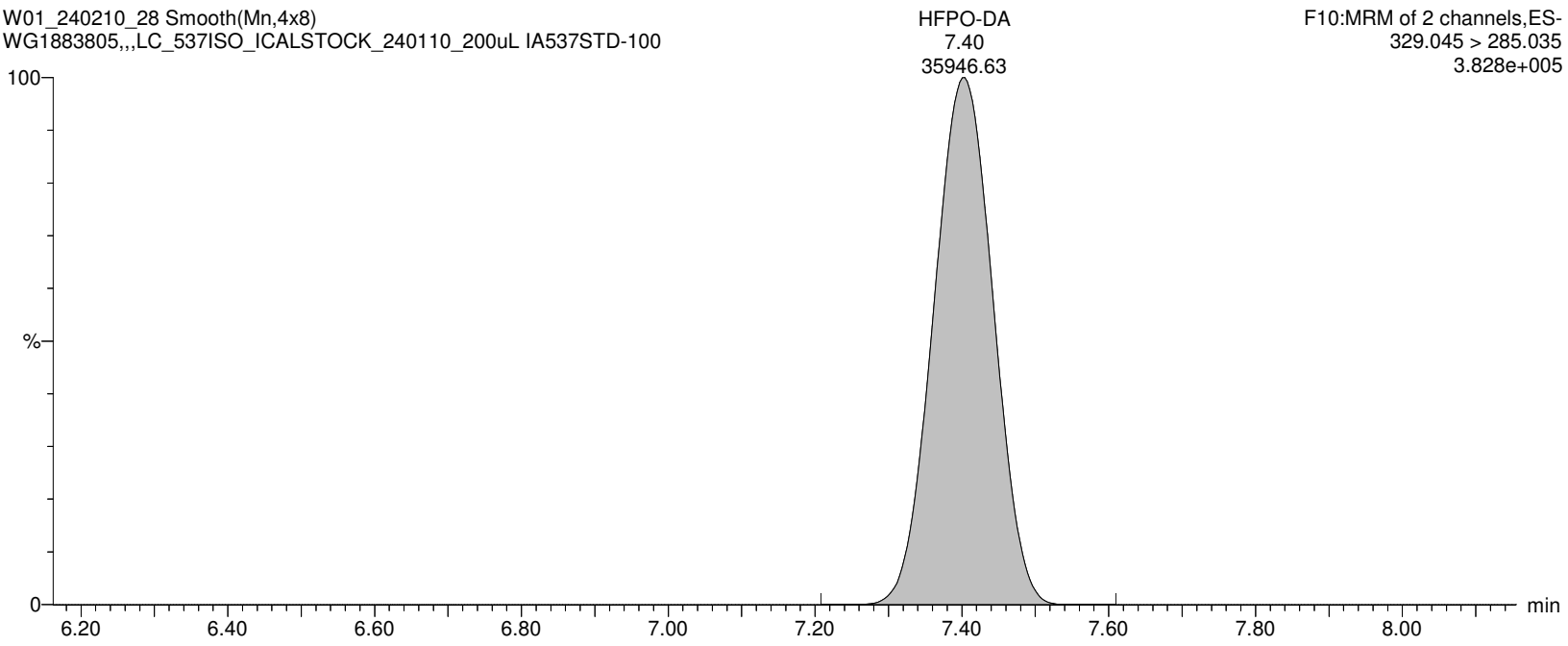
HFPO-DA





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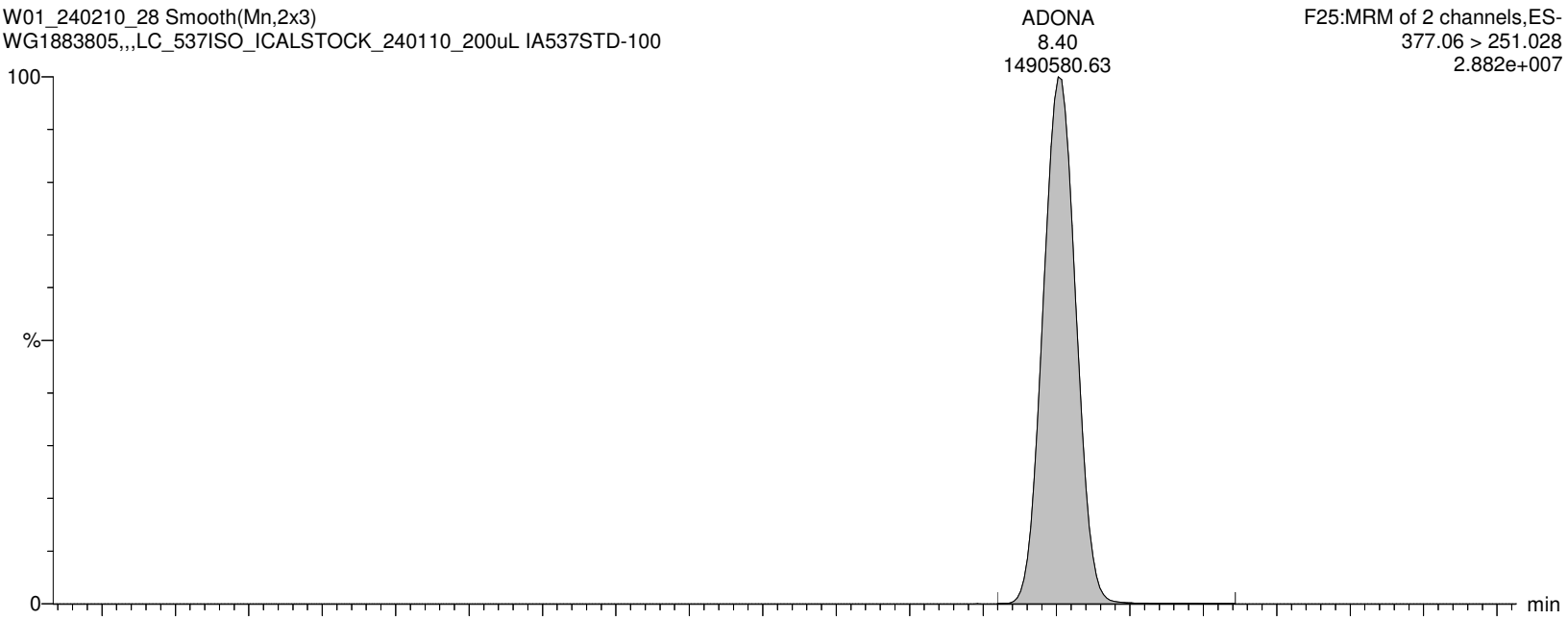
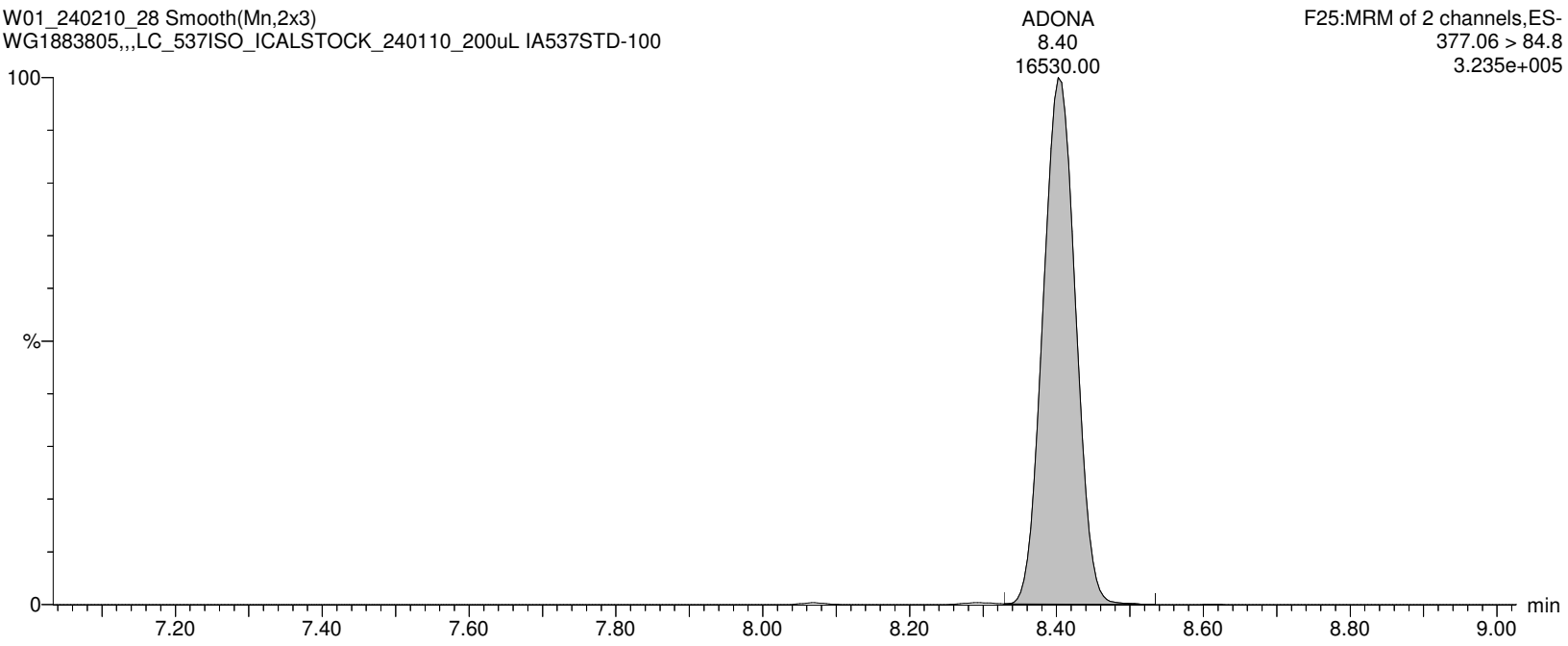
ADONA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

Name: W01_240210_28
ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
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User: LCMS01:SG
Vial: 1:B,8
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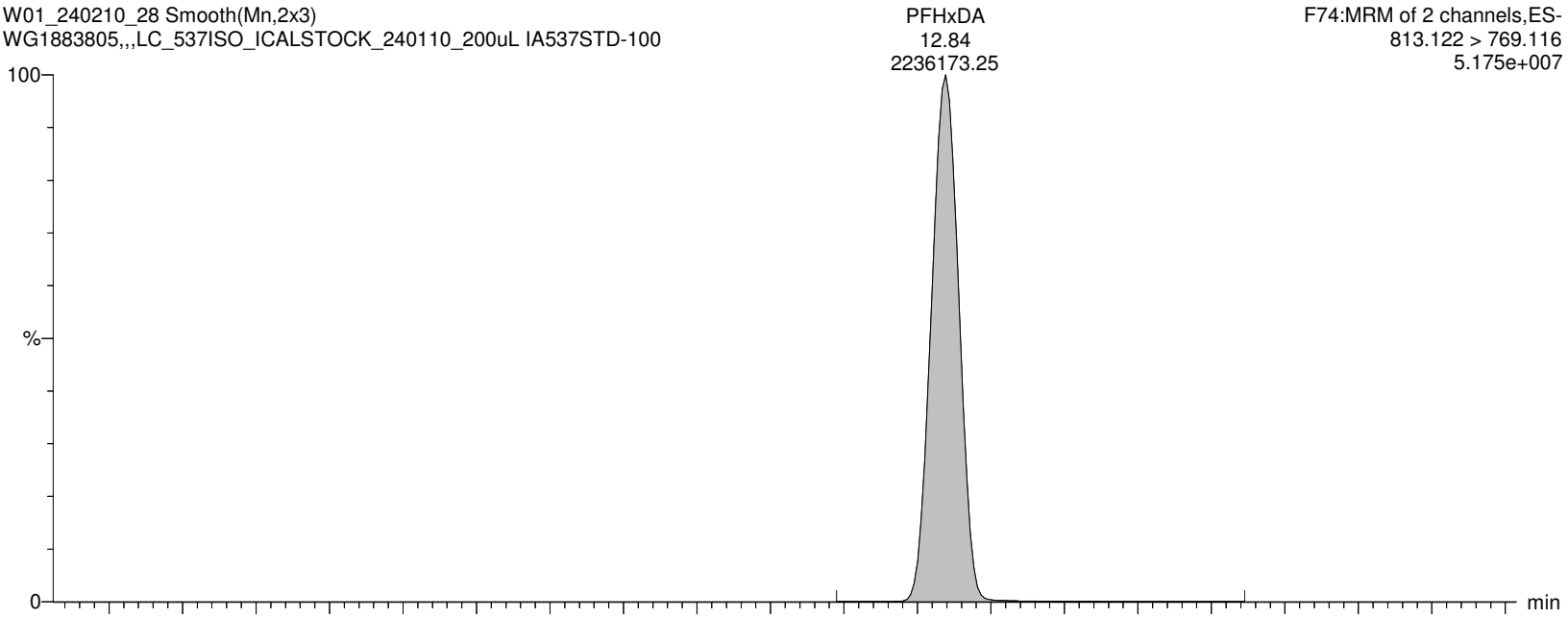

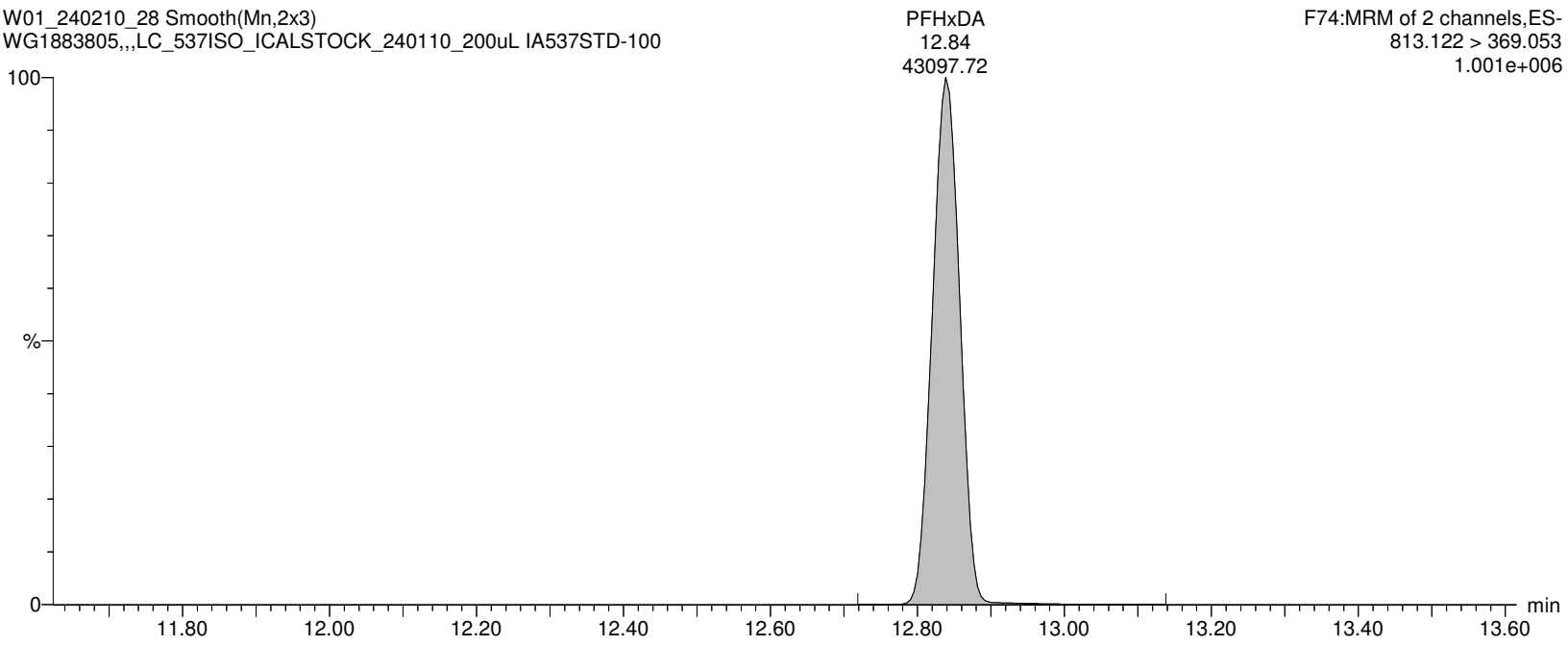

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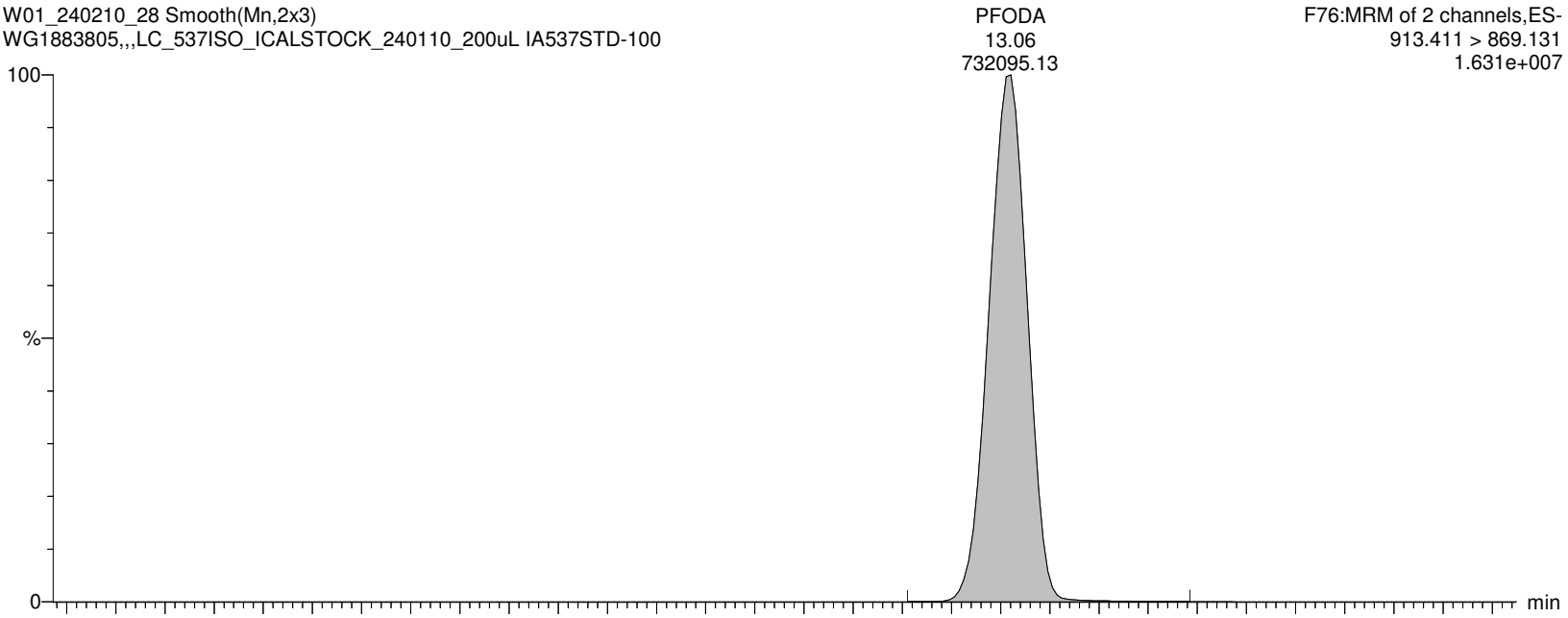

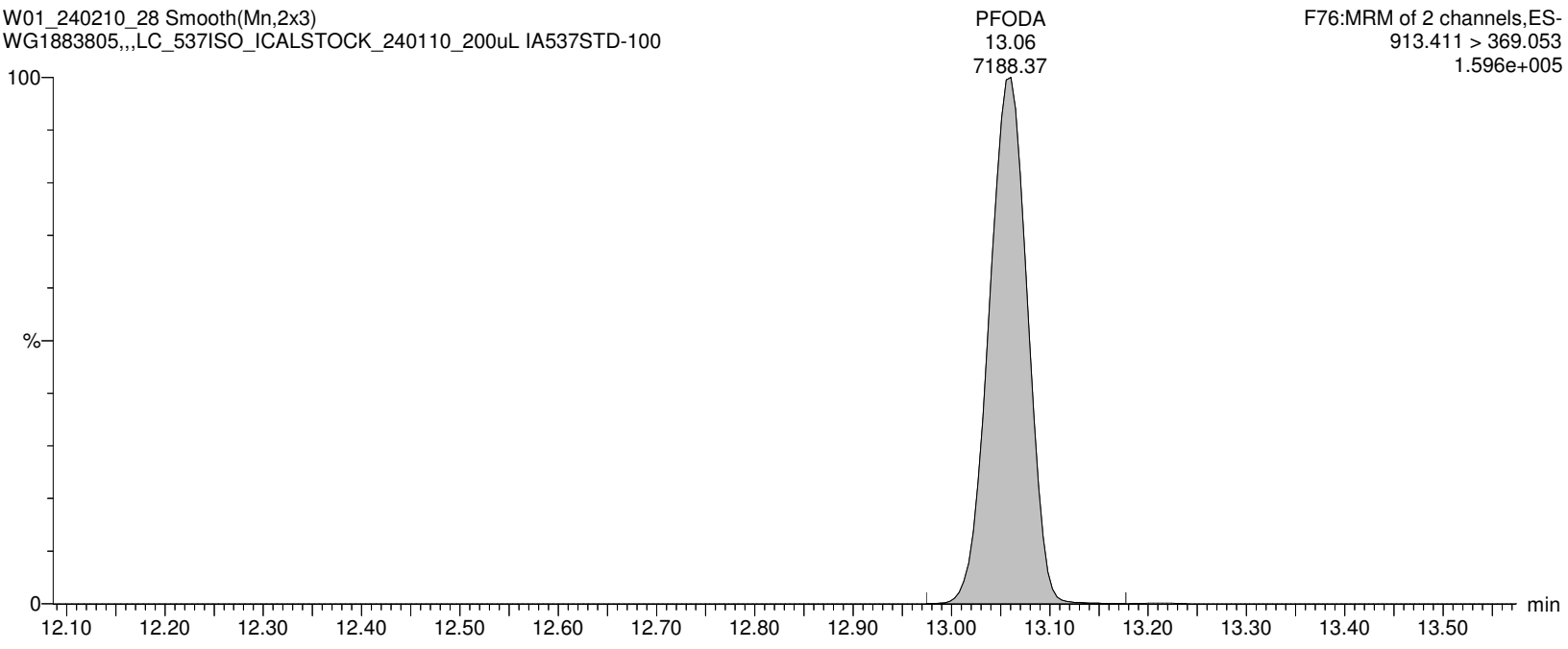

all concentration units in (ng/mL)

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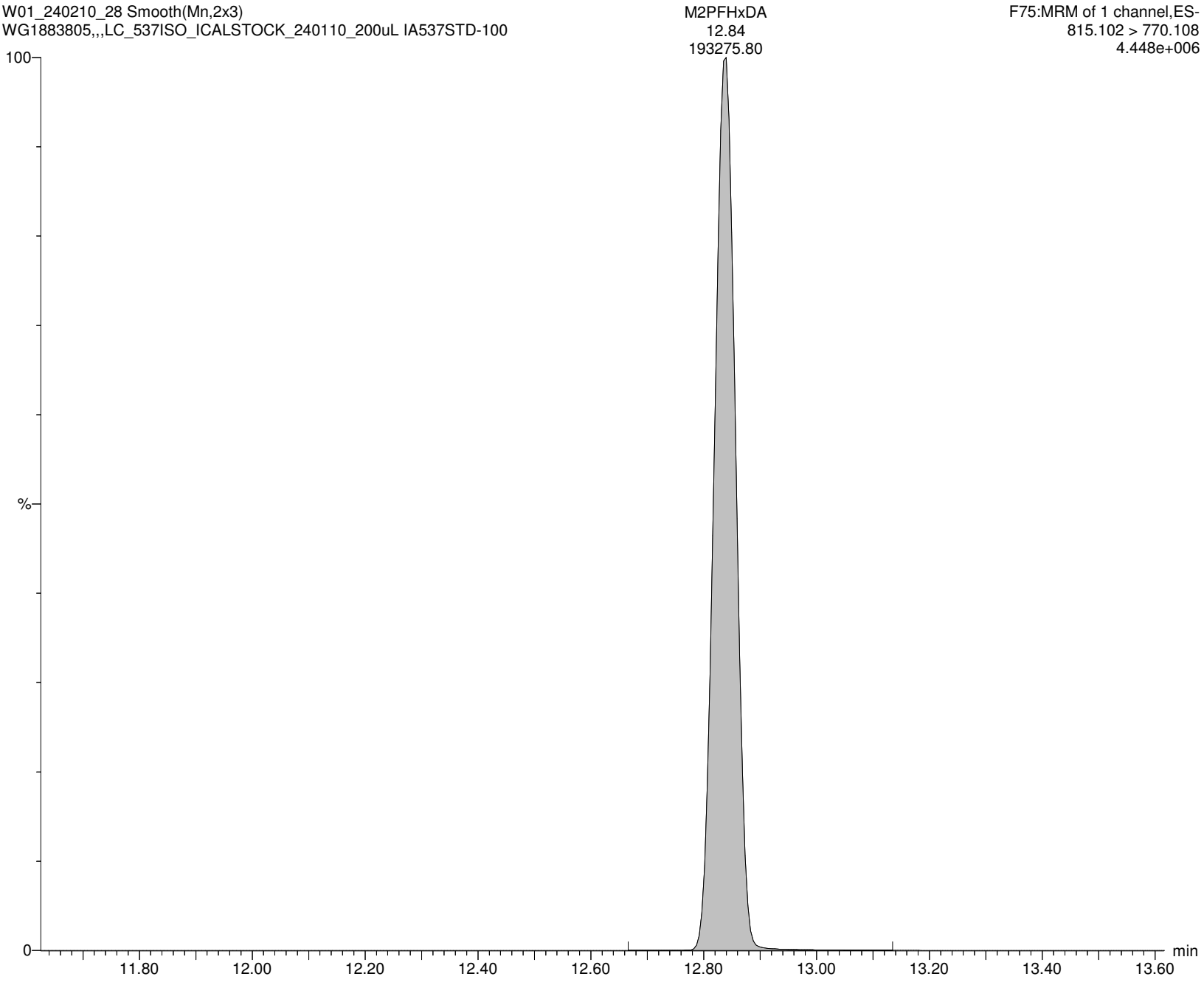

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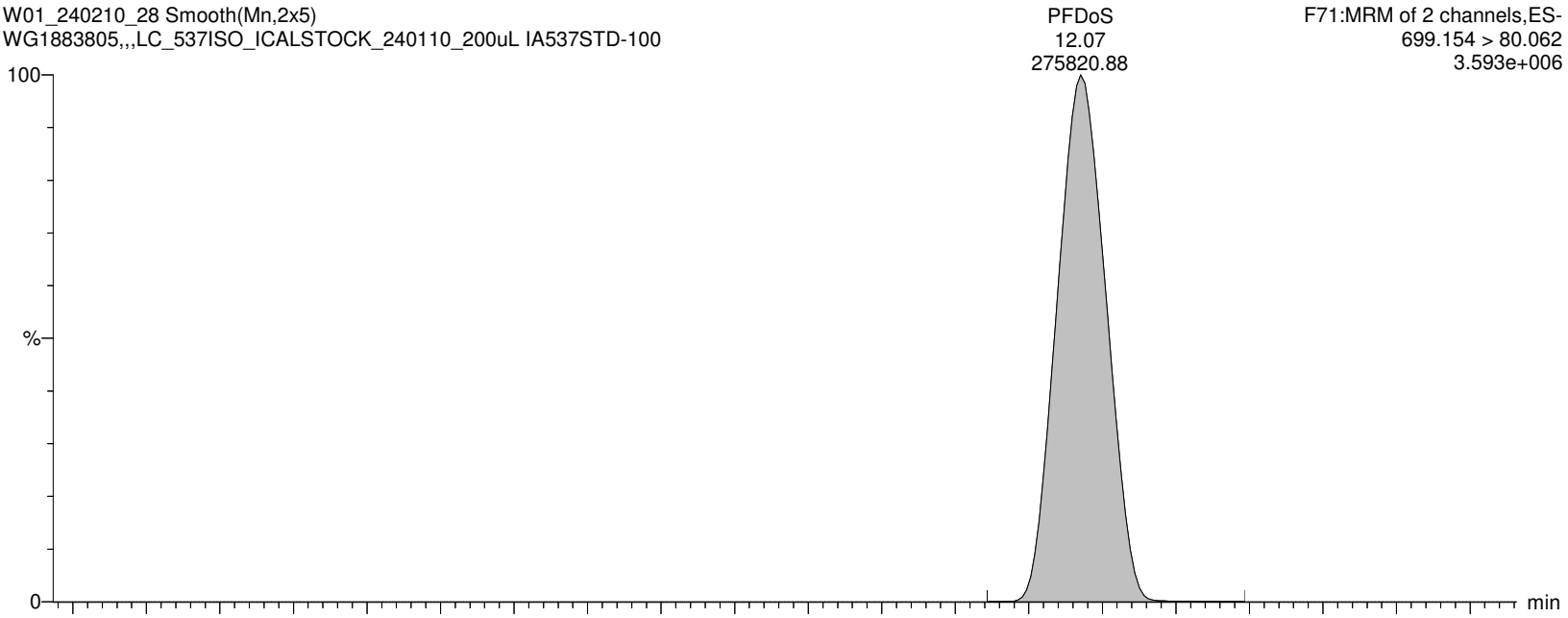

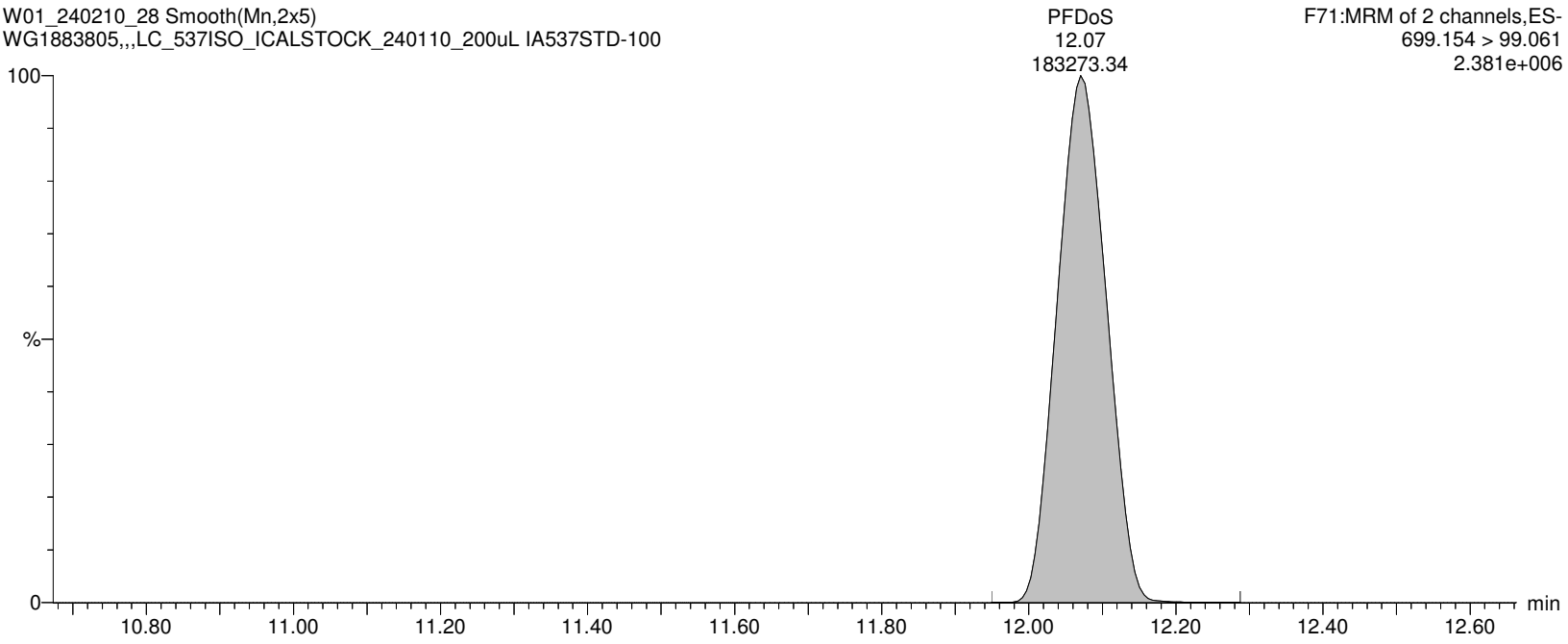

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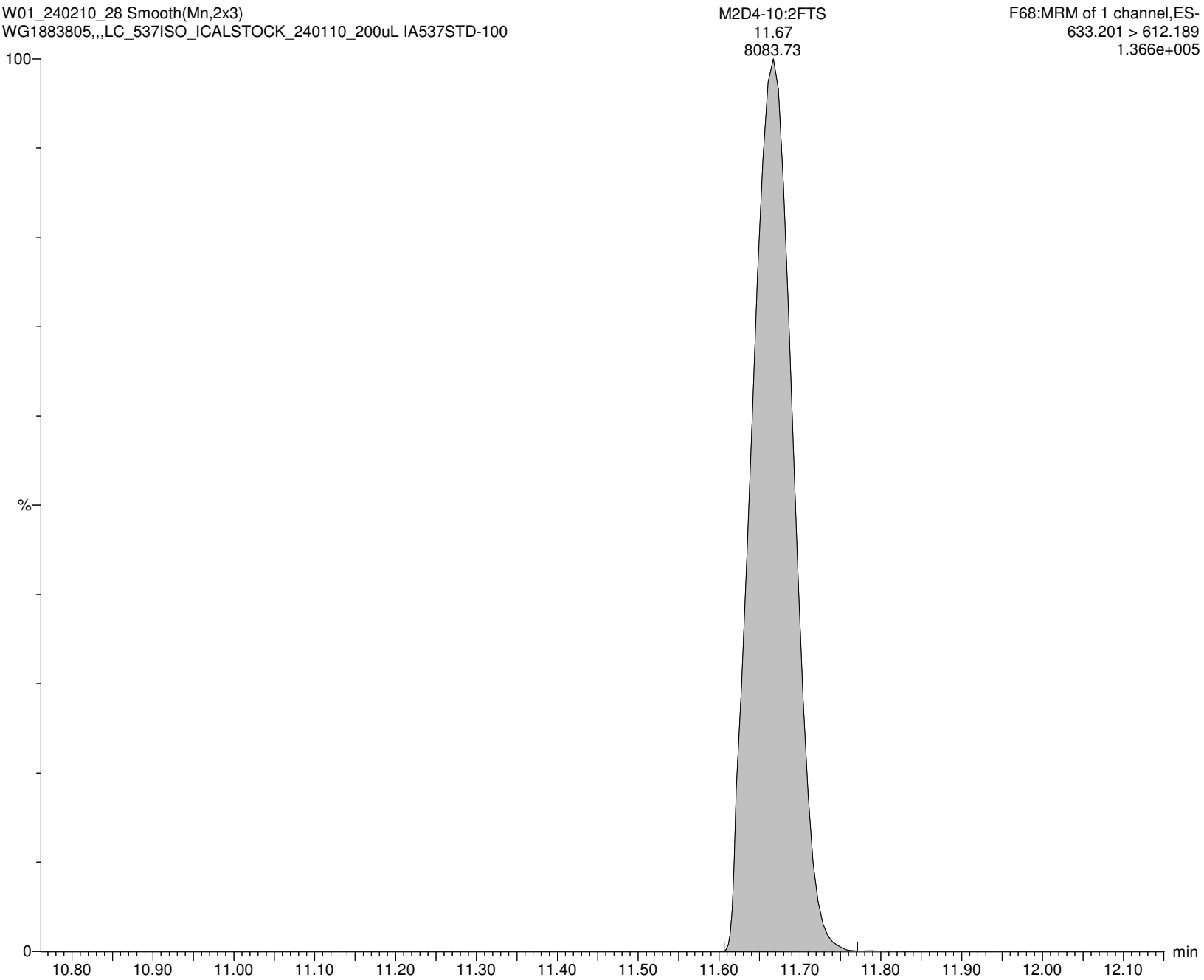

all concentration units in (ng/mL)

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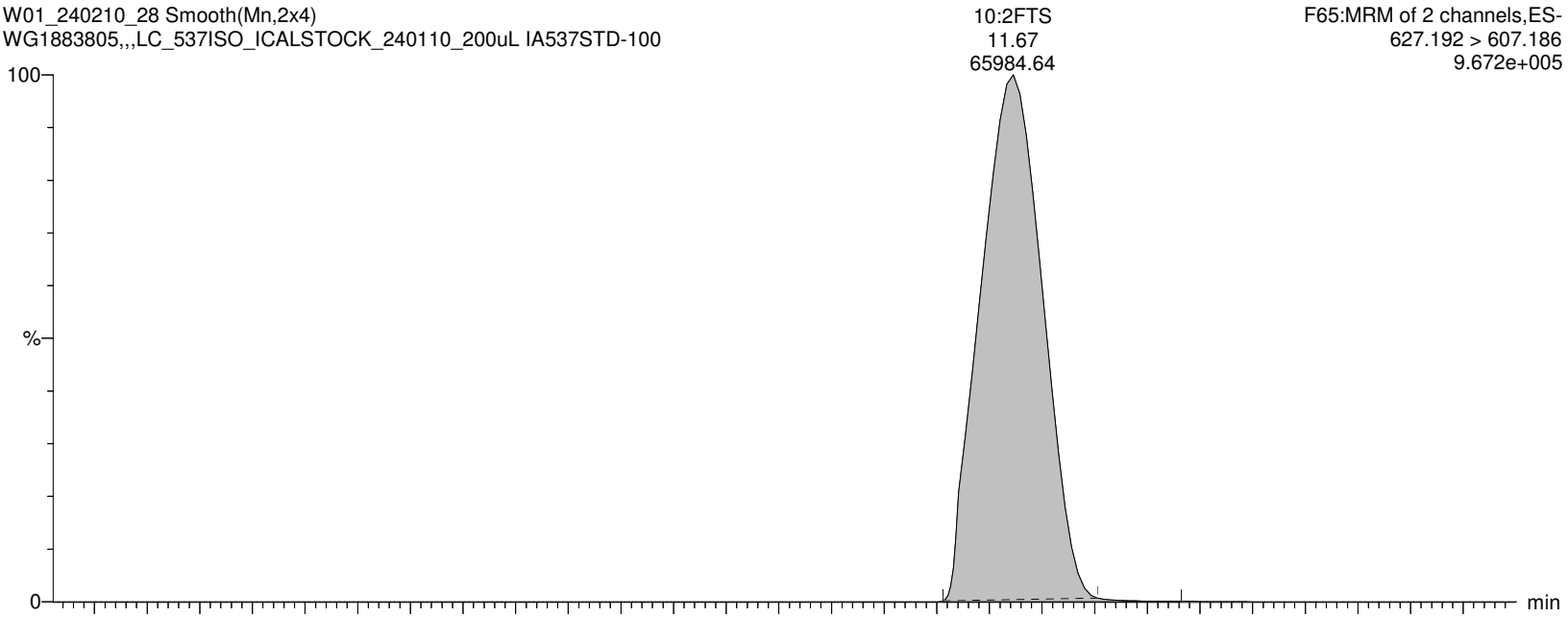

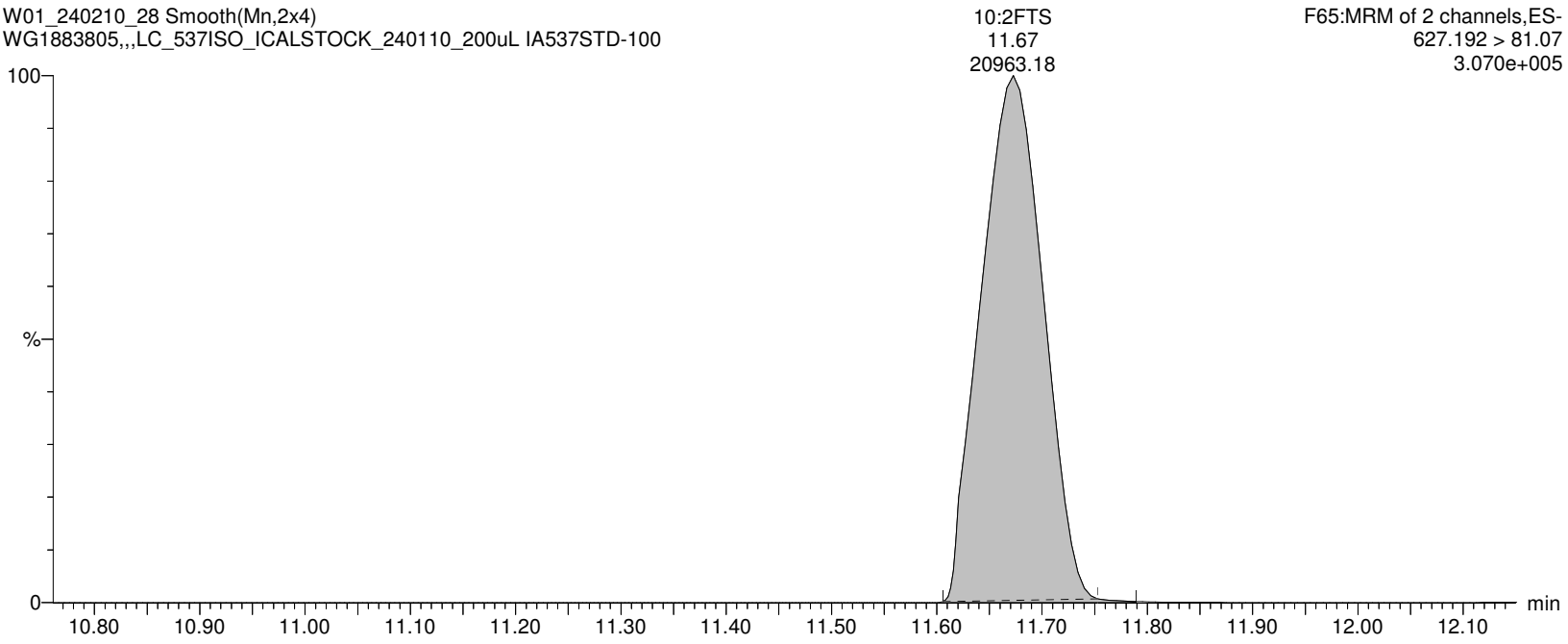

all concentration units in (ng/mL)

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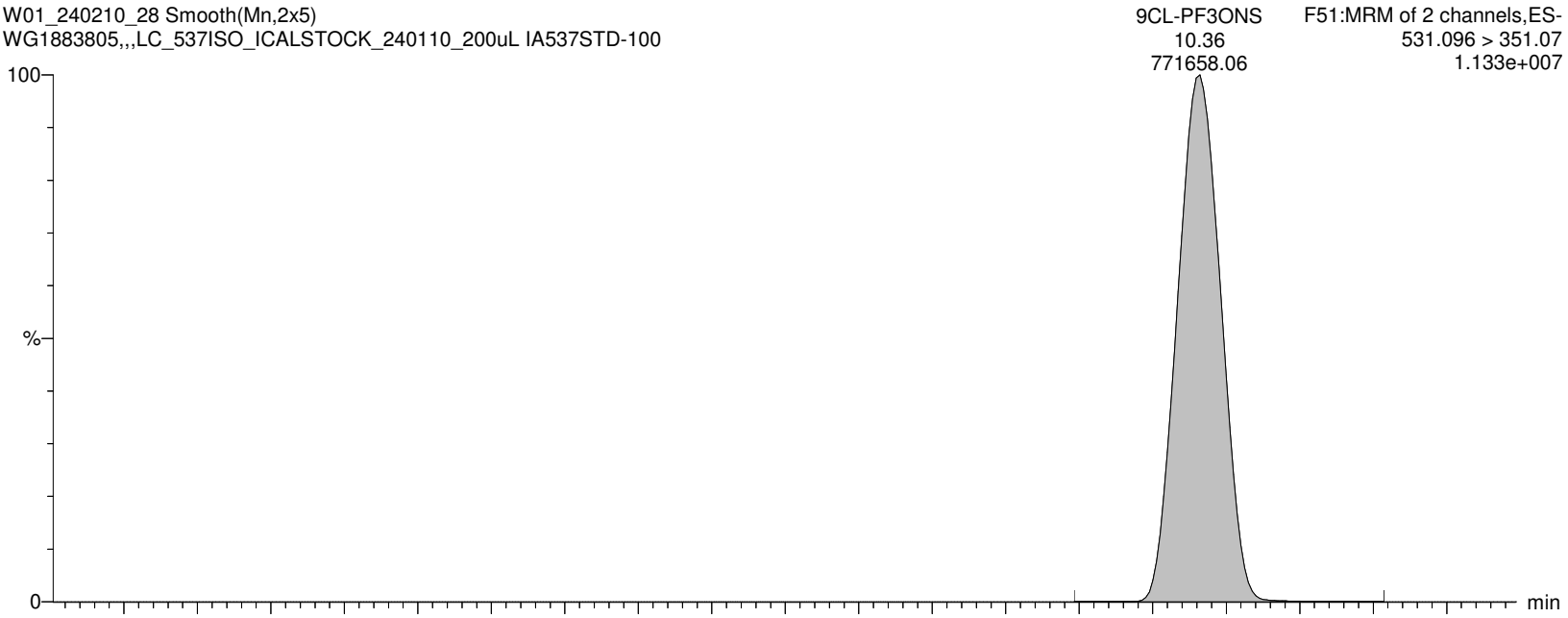
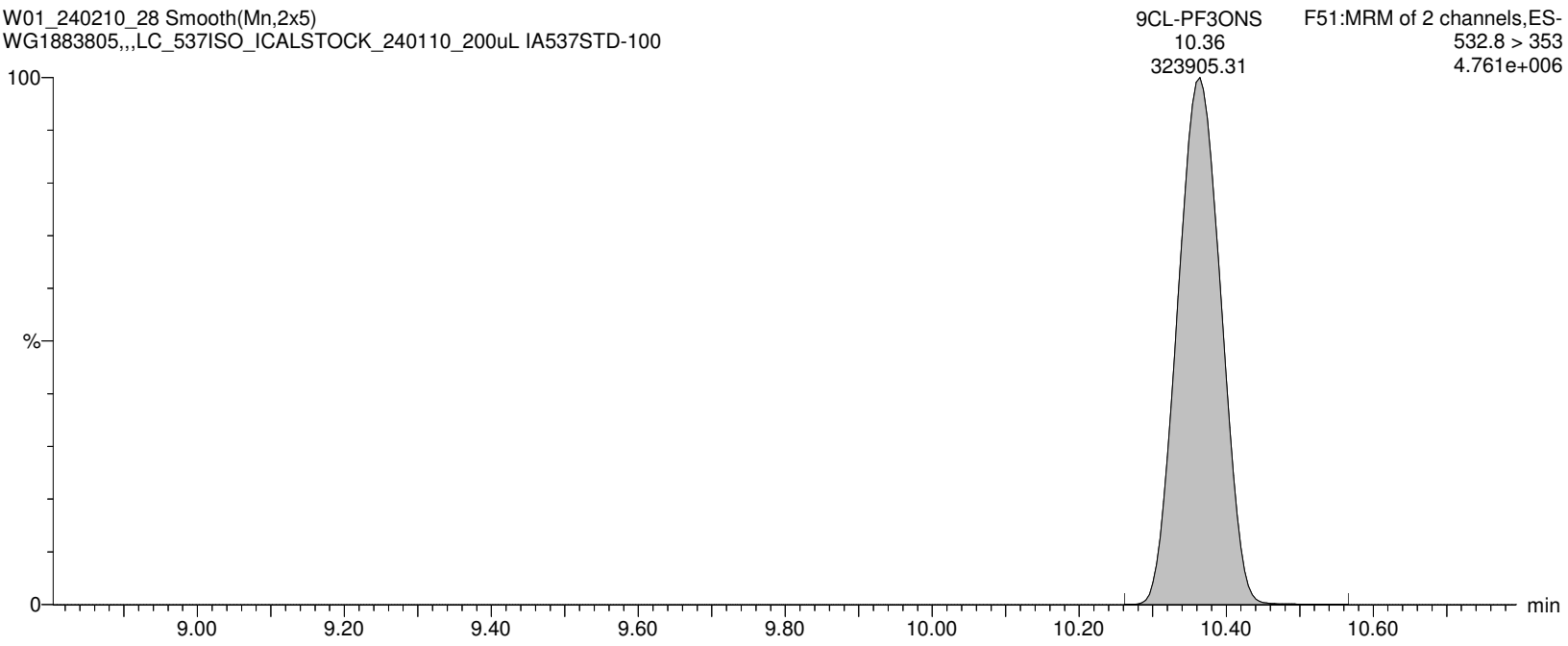
9CL-PF3ONS





all concentration units in (ng/mL)

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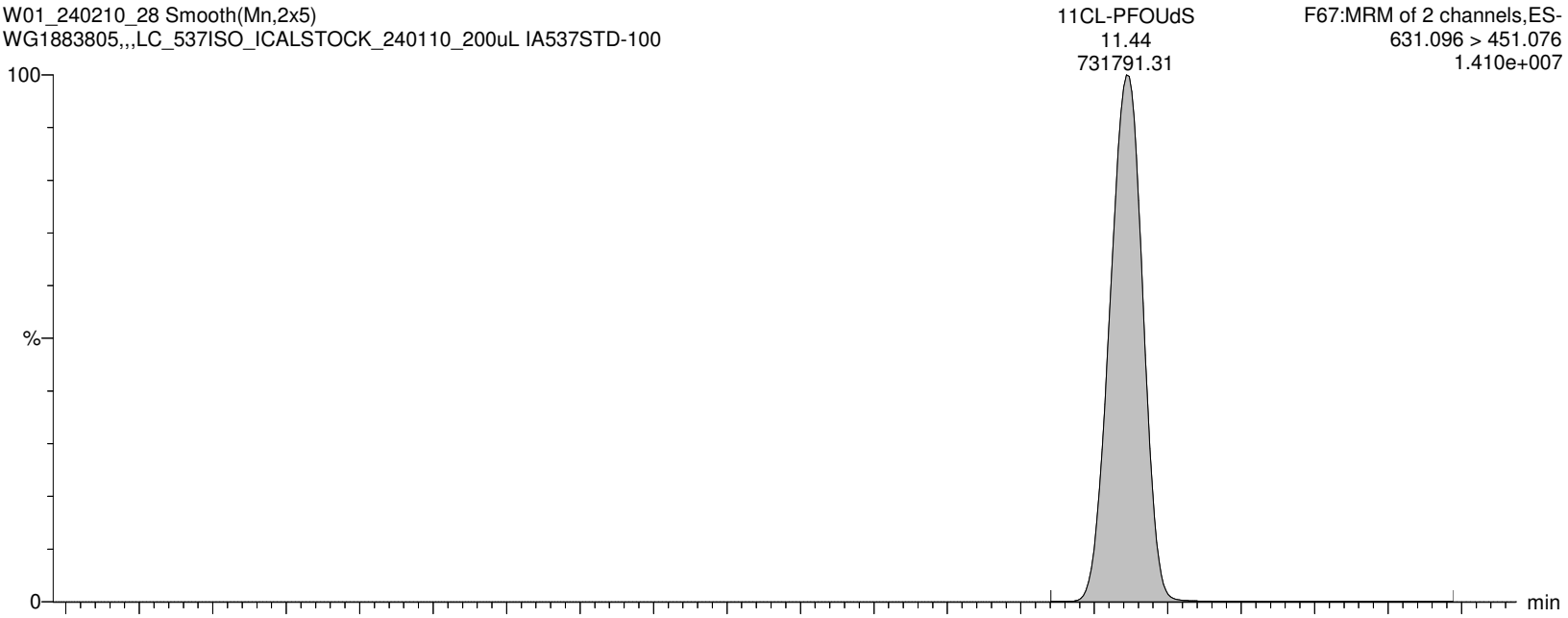

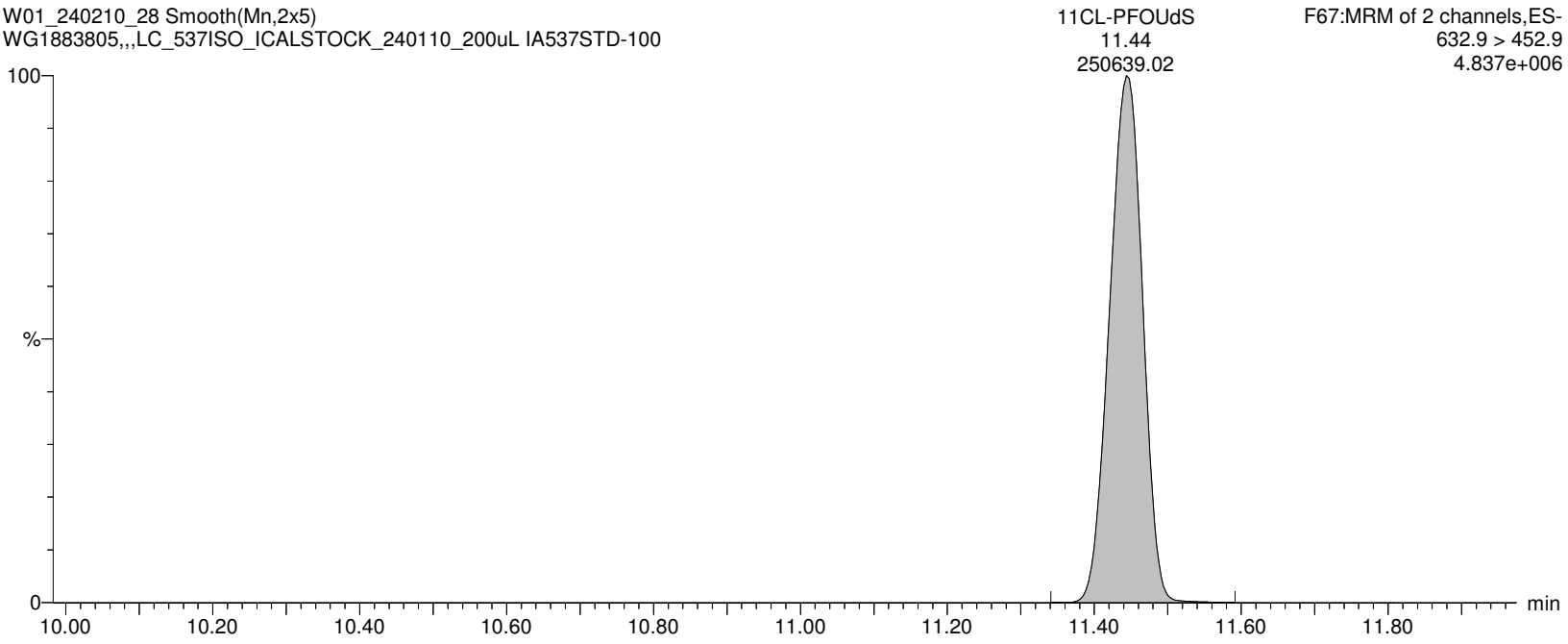

all concentration units in (ng/mL)

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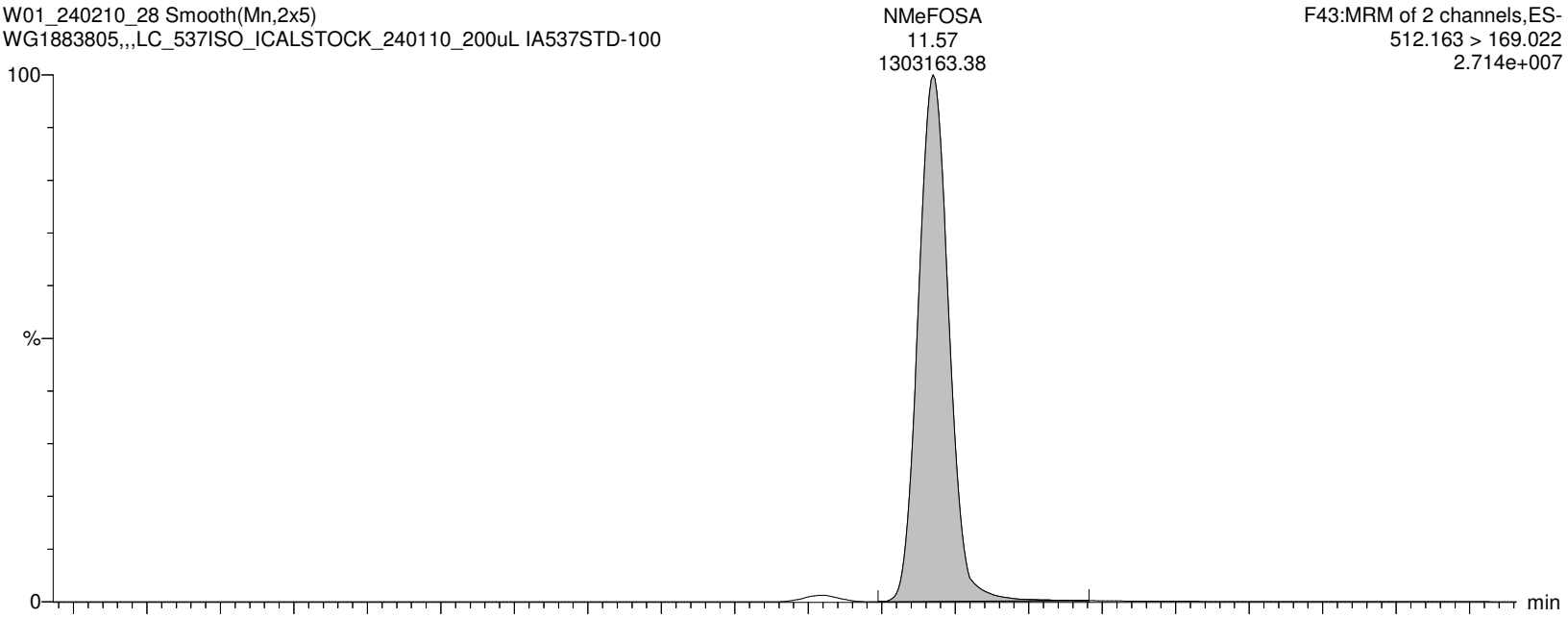

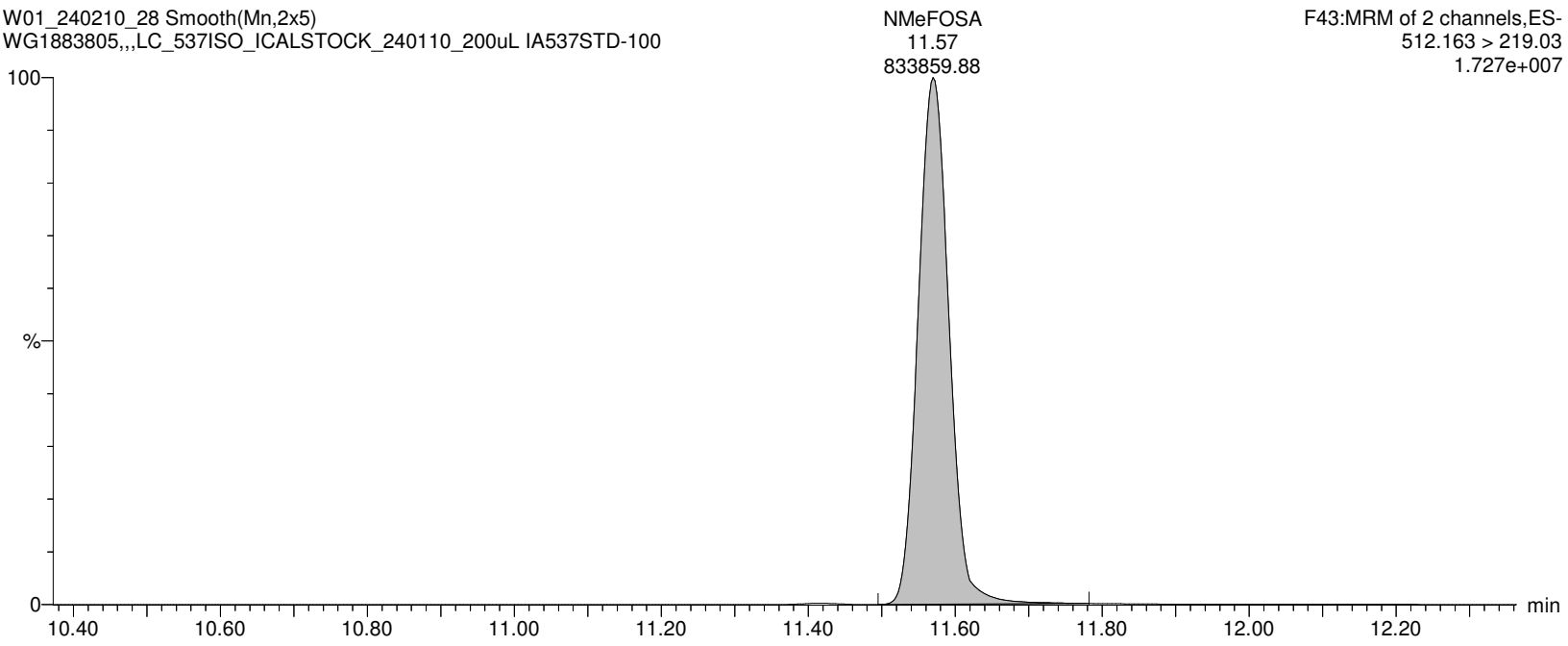

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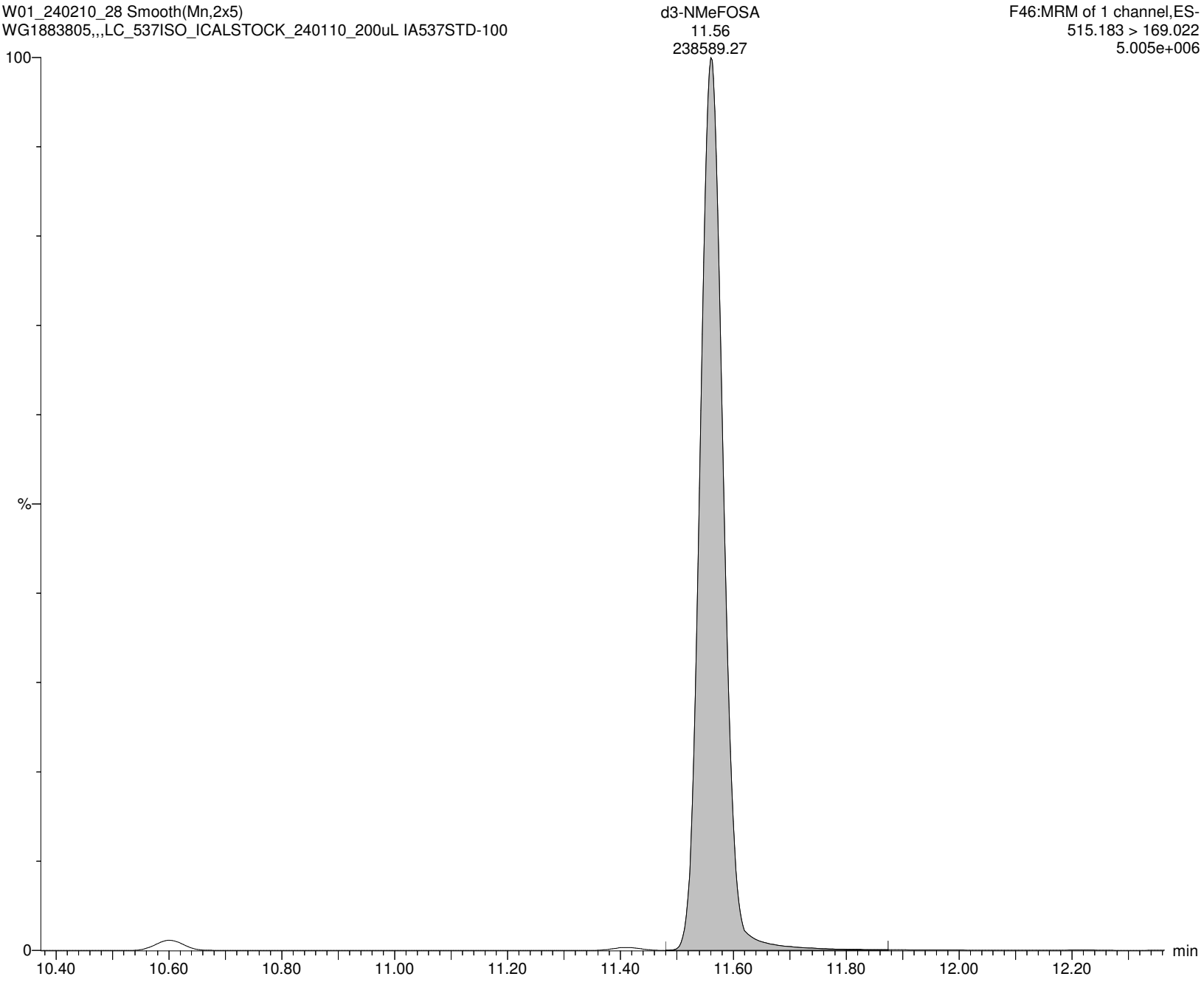

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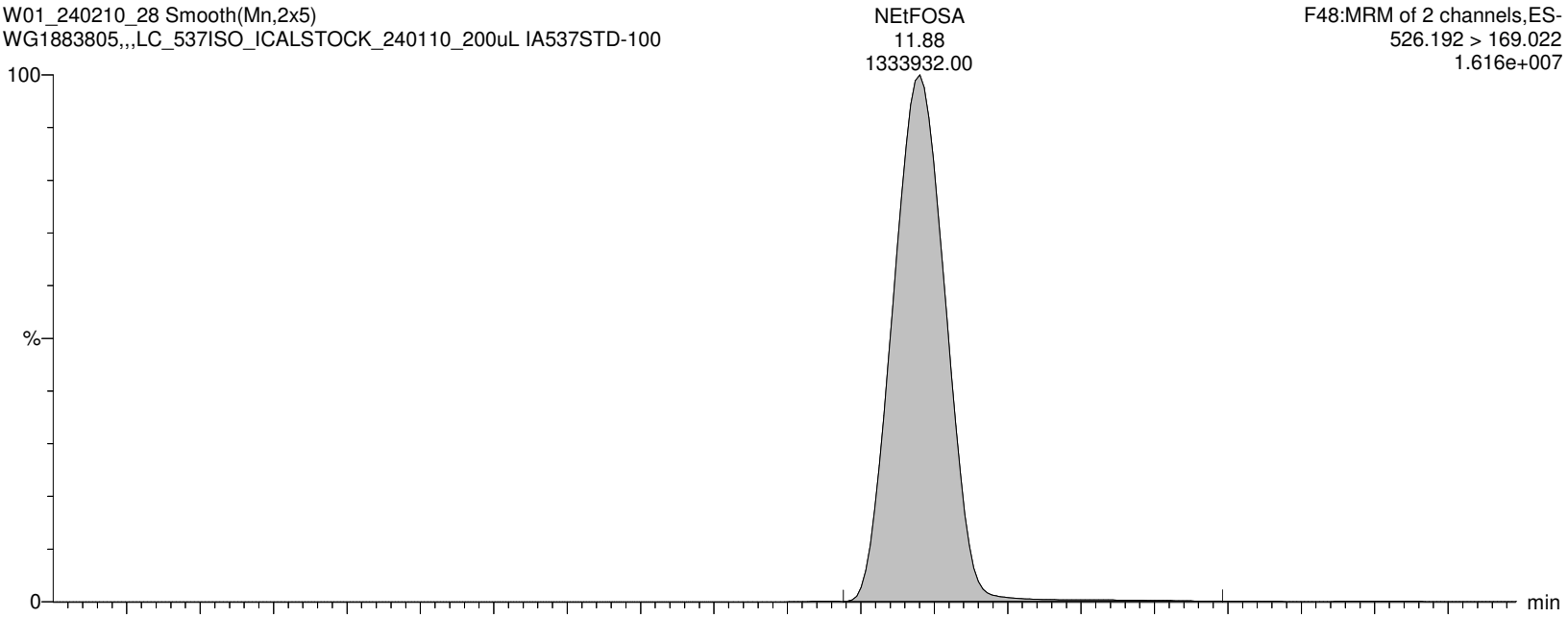

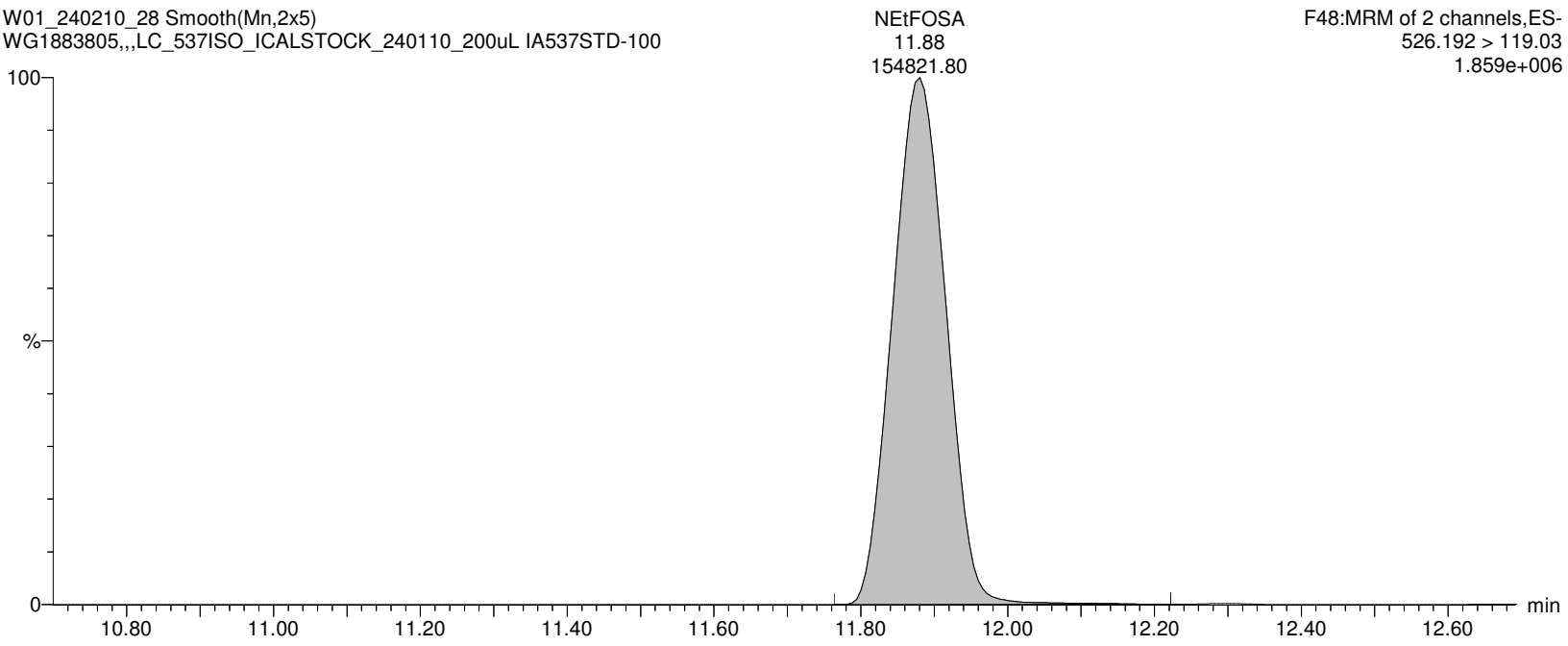

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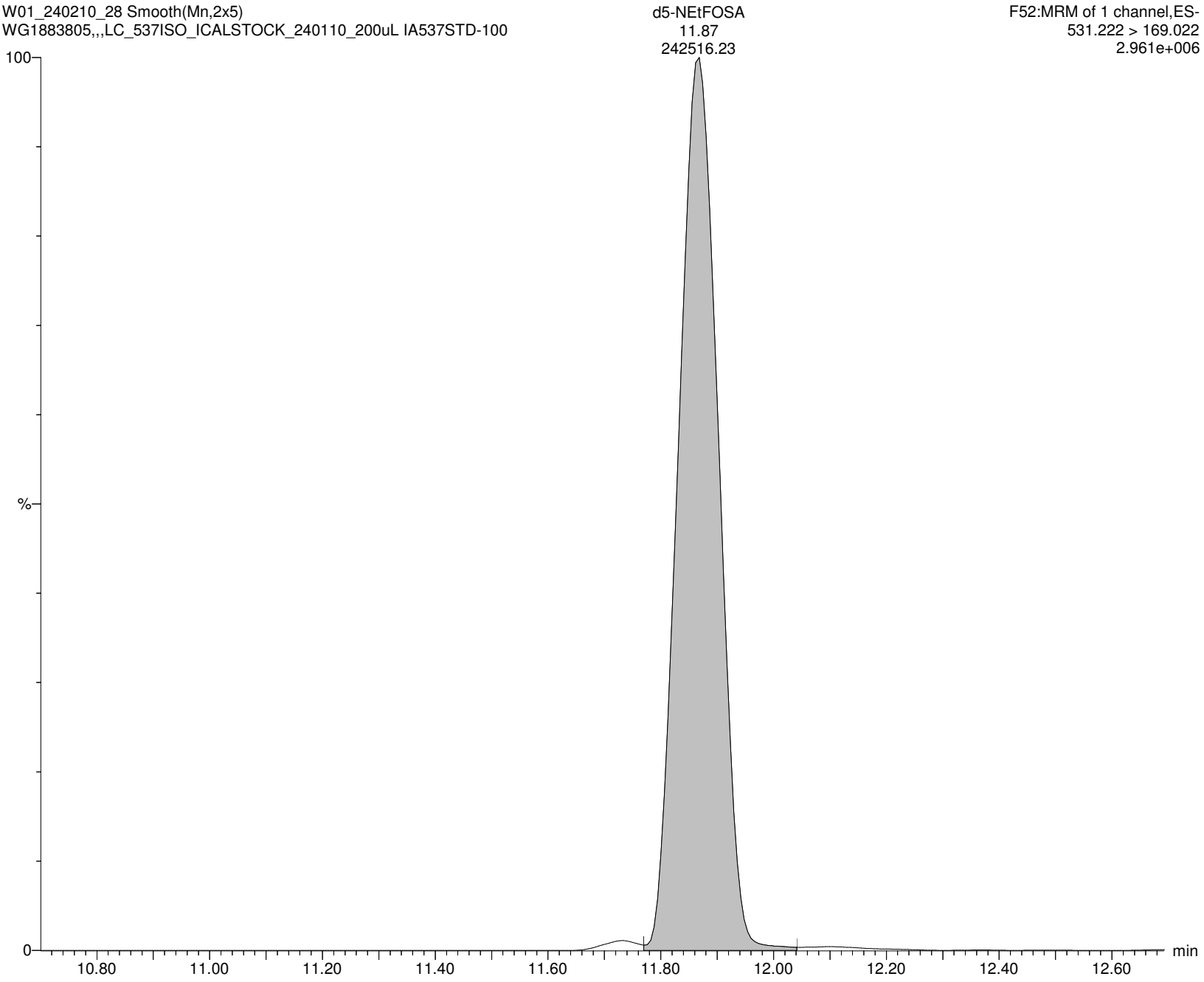
d5-NEtFOSA



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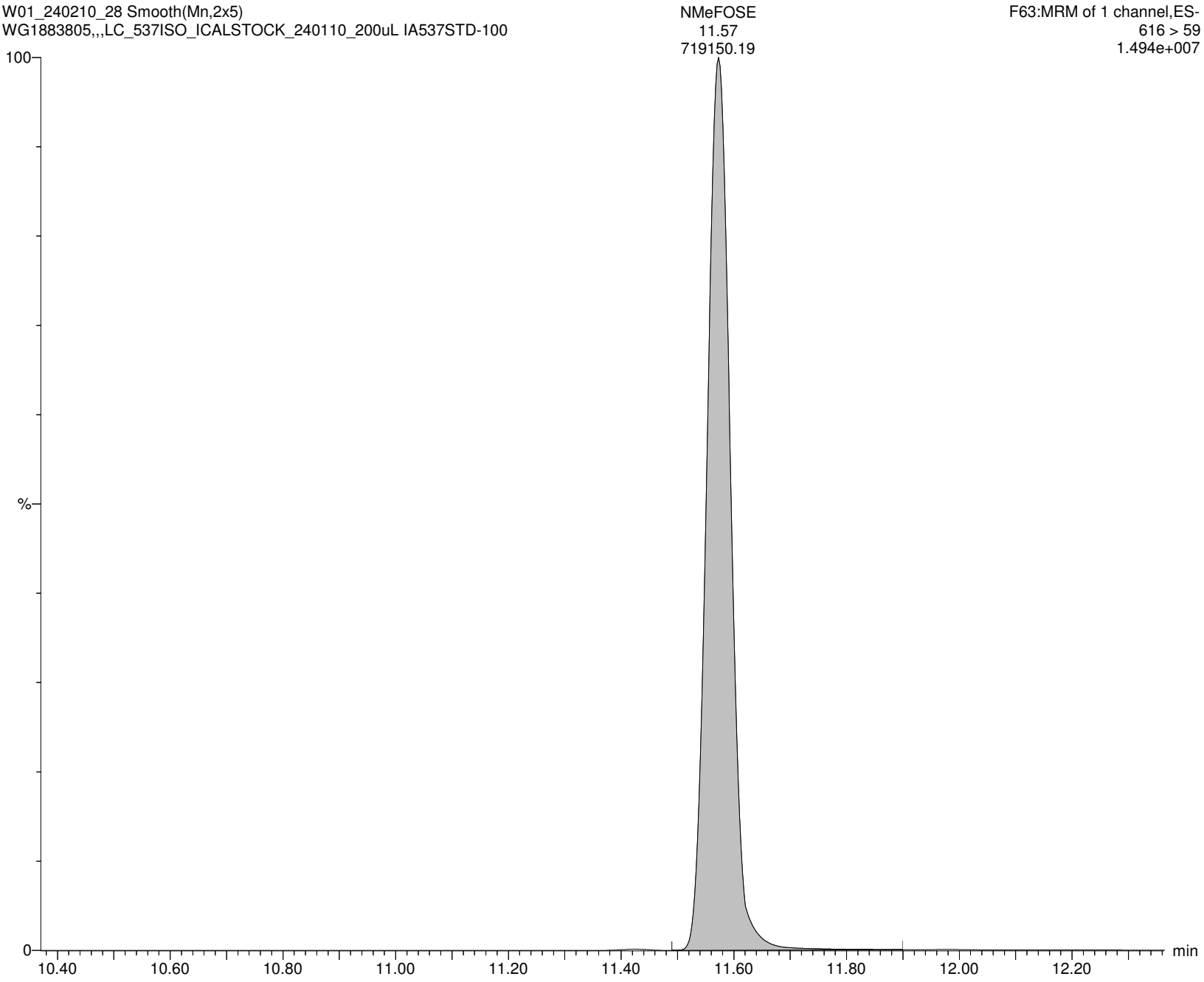
NMeFOSE



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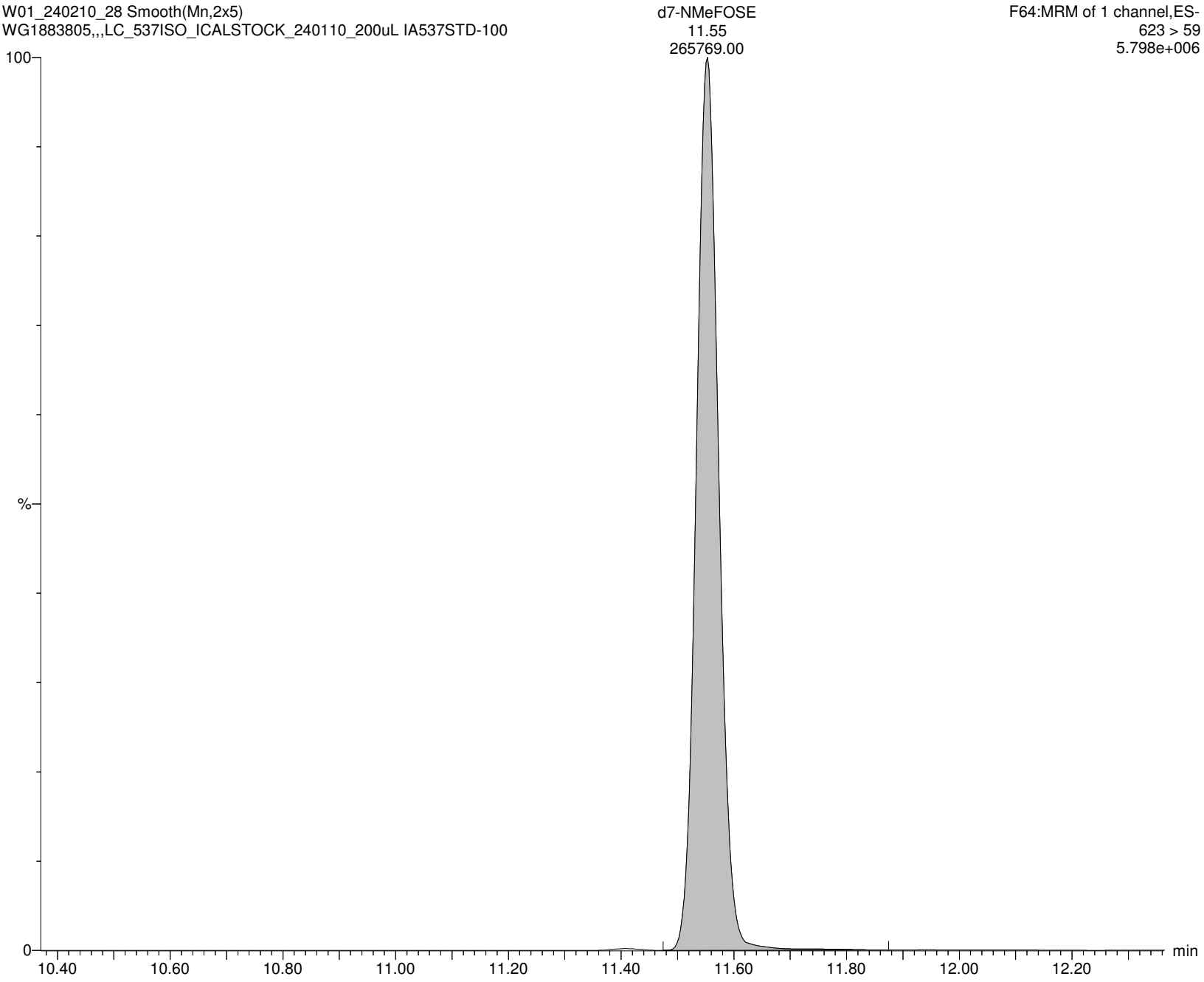
d7-NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:24 Eastern Standard Time

Name: W01_240210_28
ID: IA537STD-100
Date: 10-Feb-2024
Time: 18:09:26
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_200uL
User: LCMS01:SG
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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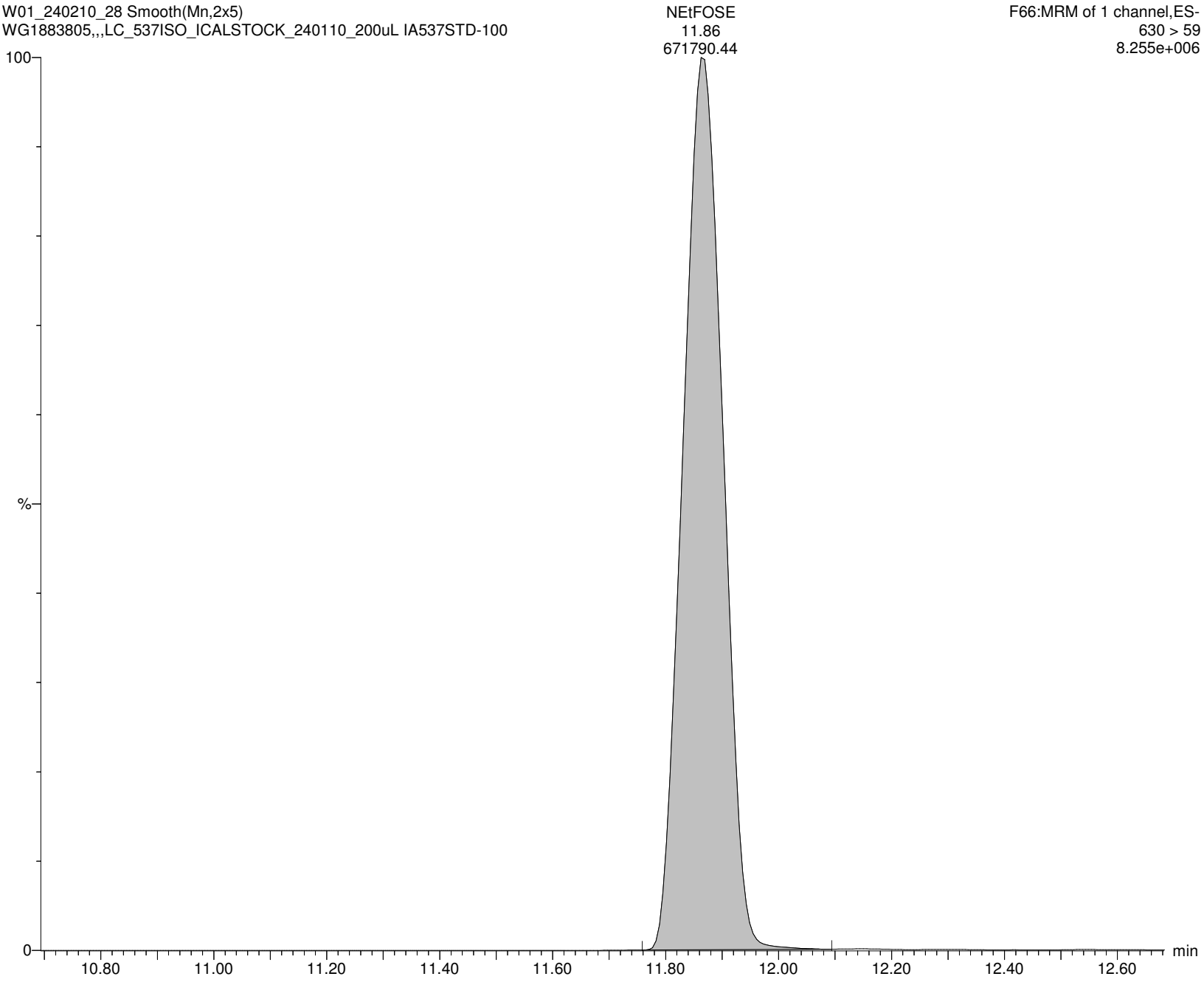
NEtFOSE



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Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEA0276
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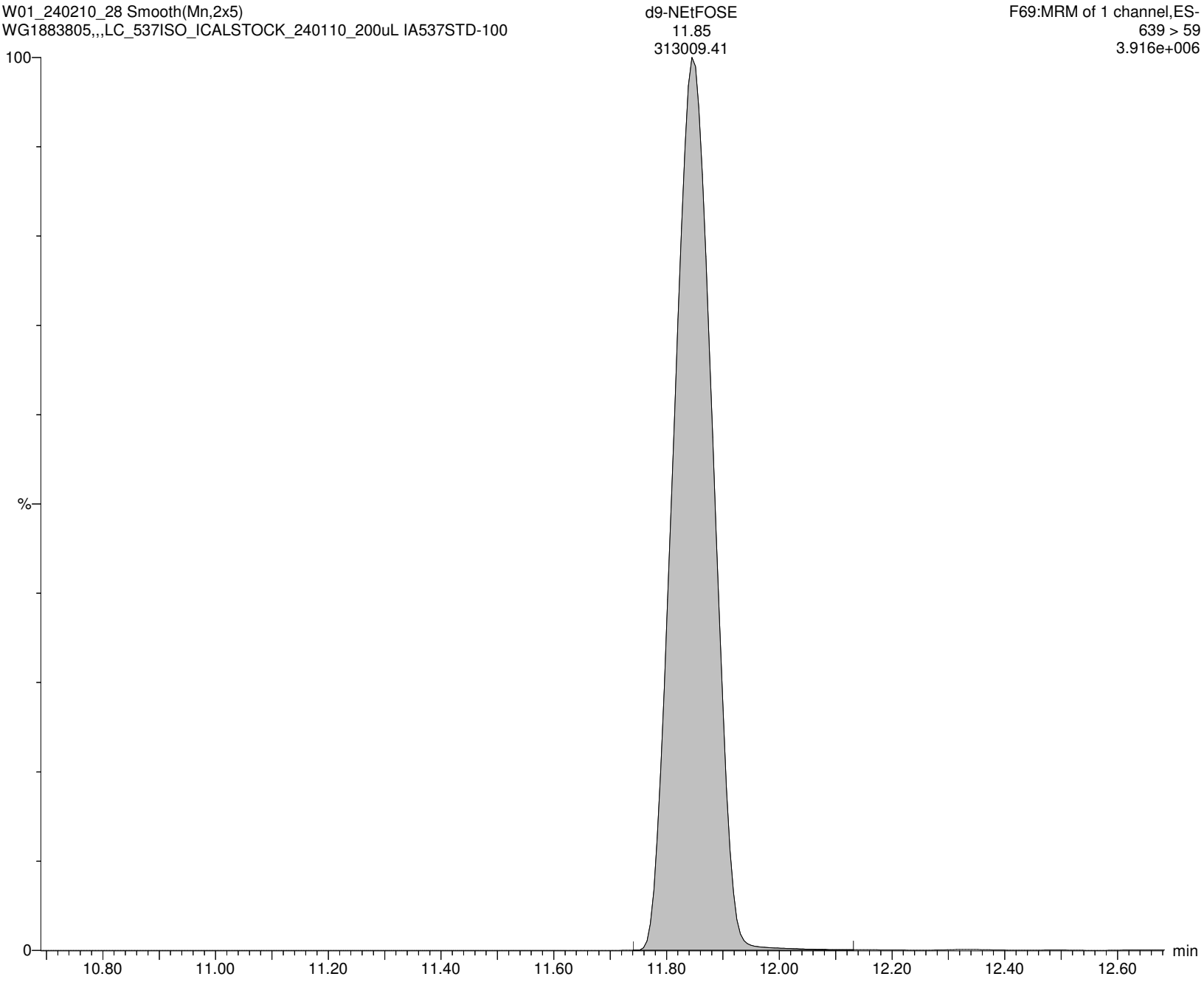
d9-NEtFOSE



all concentration units in (ng/mL)

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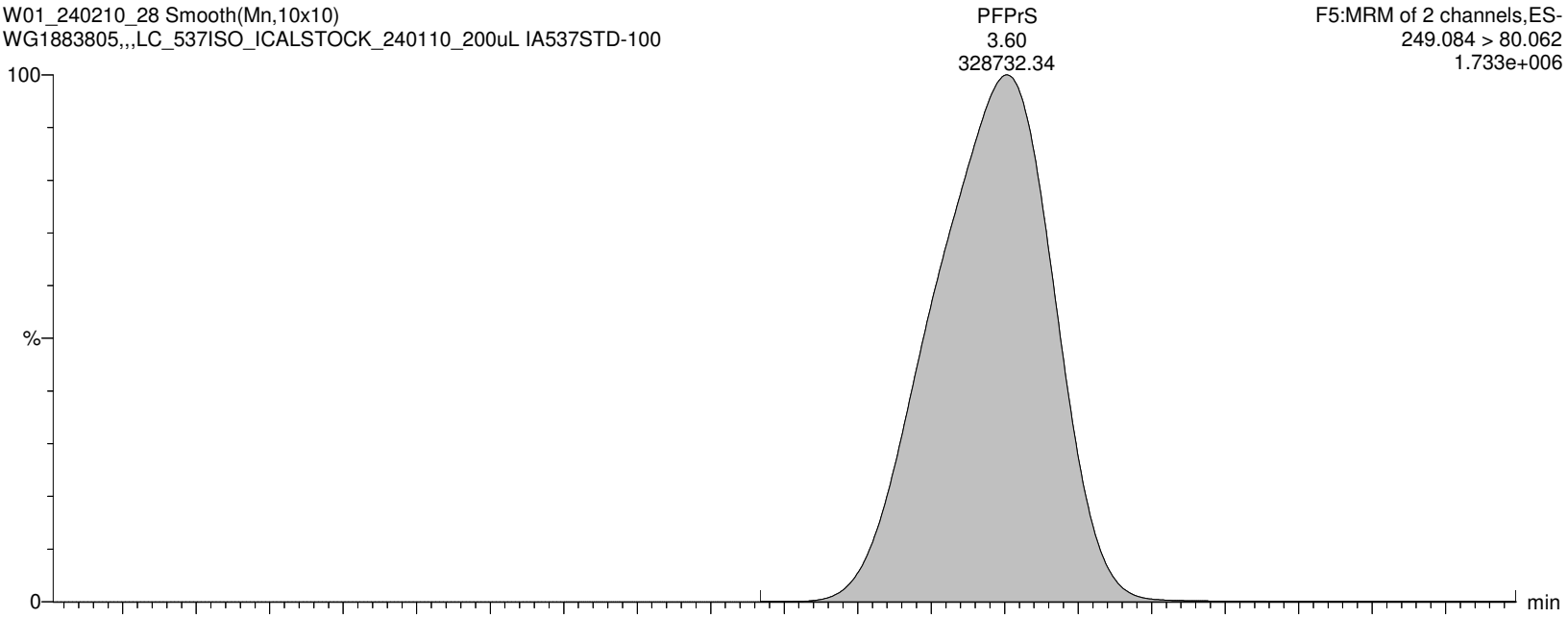
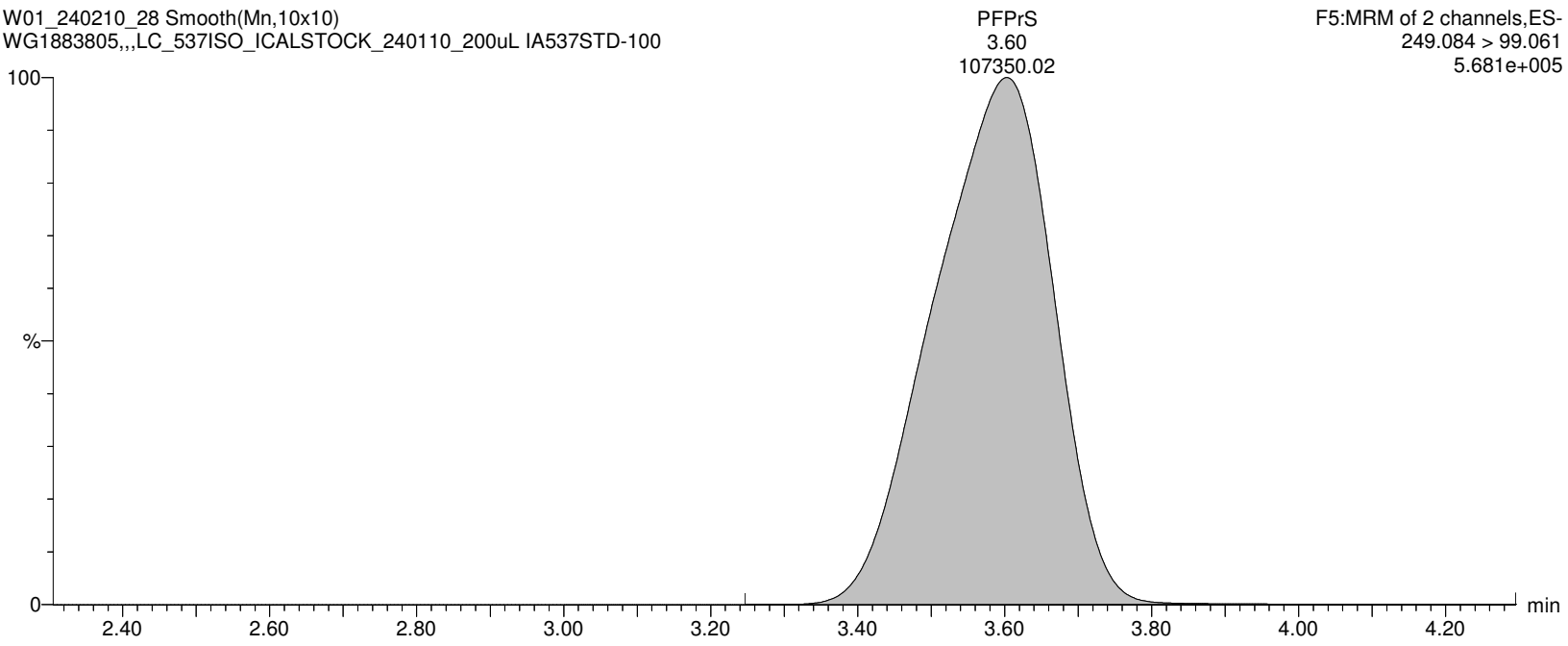
PFPrS





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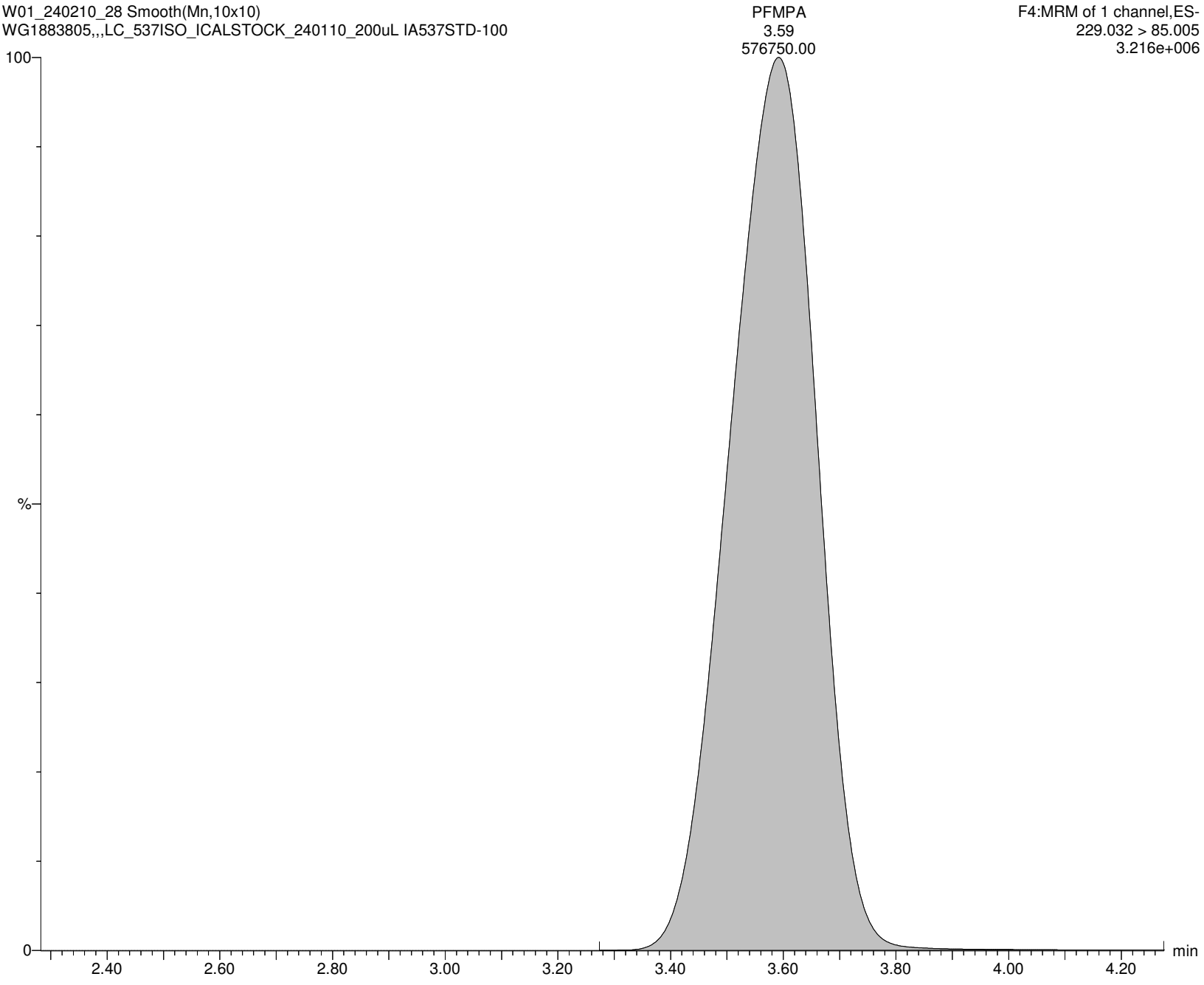
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

PFMPA



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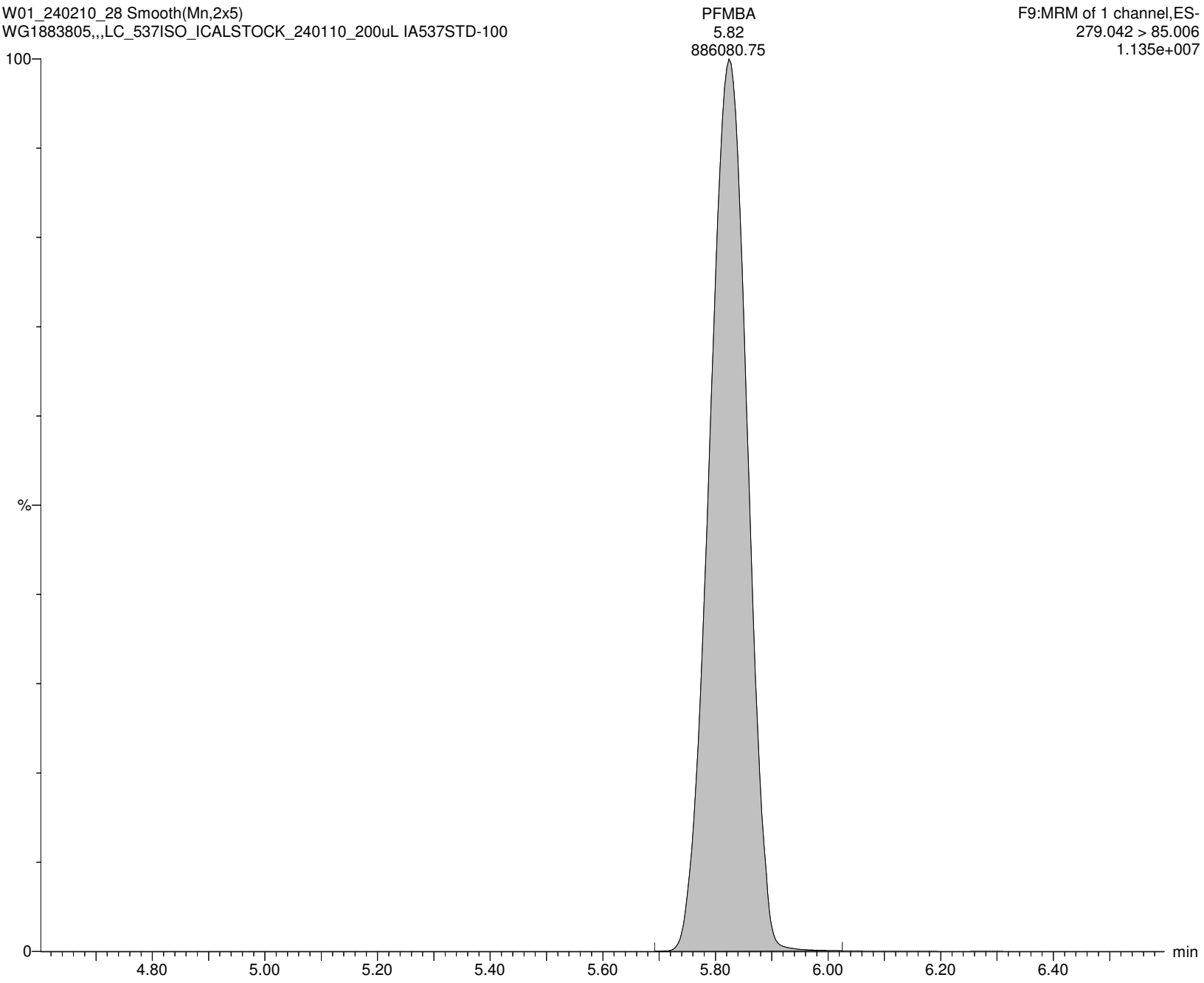
PFMBA



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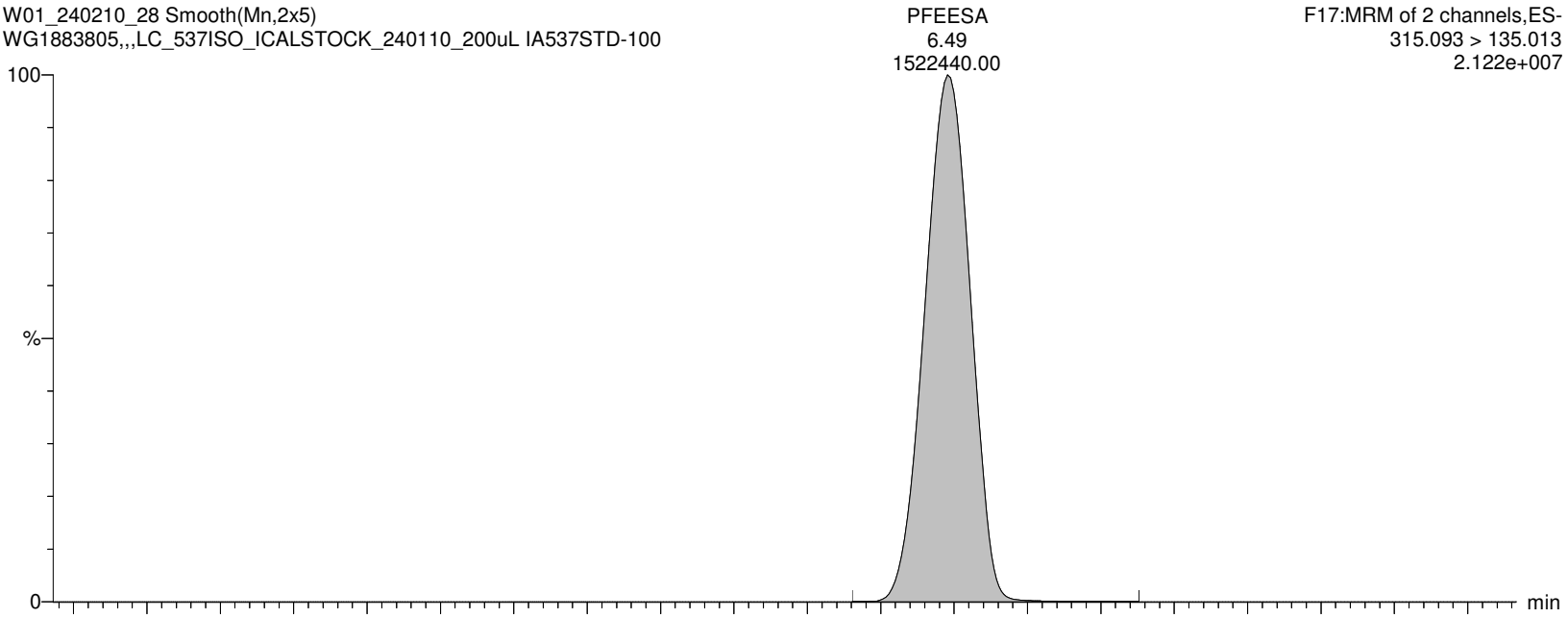

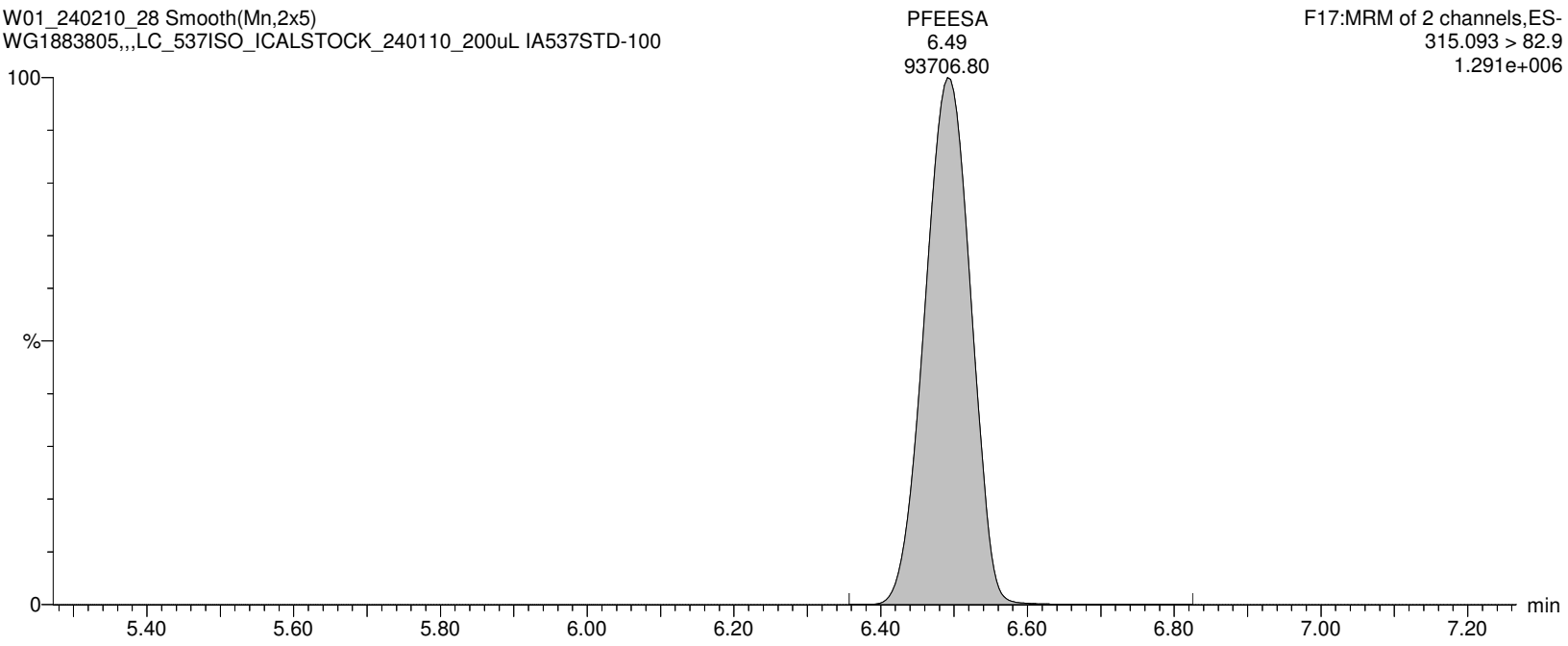

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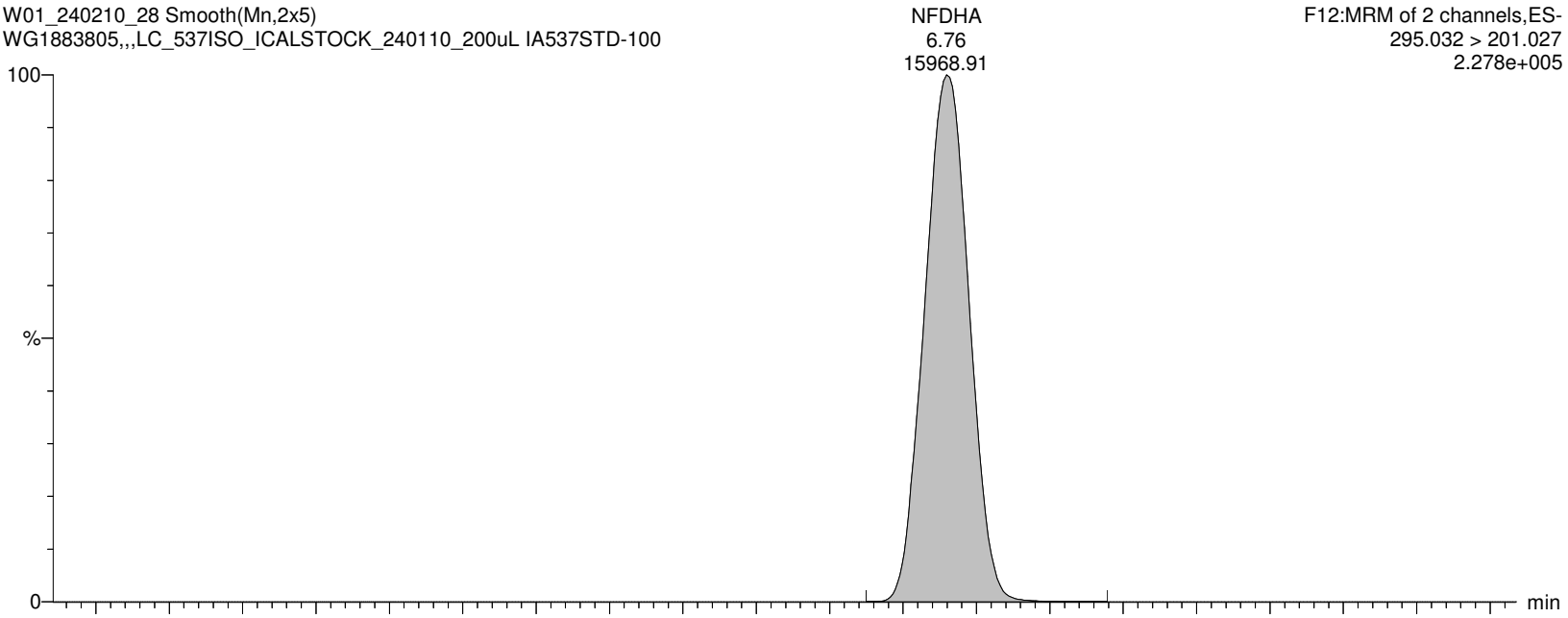

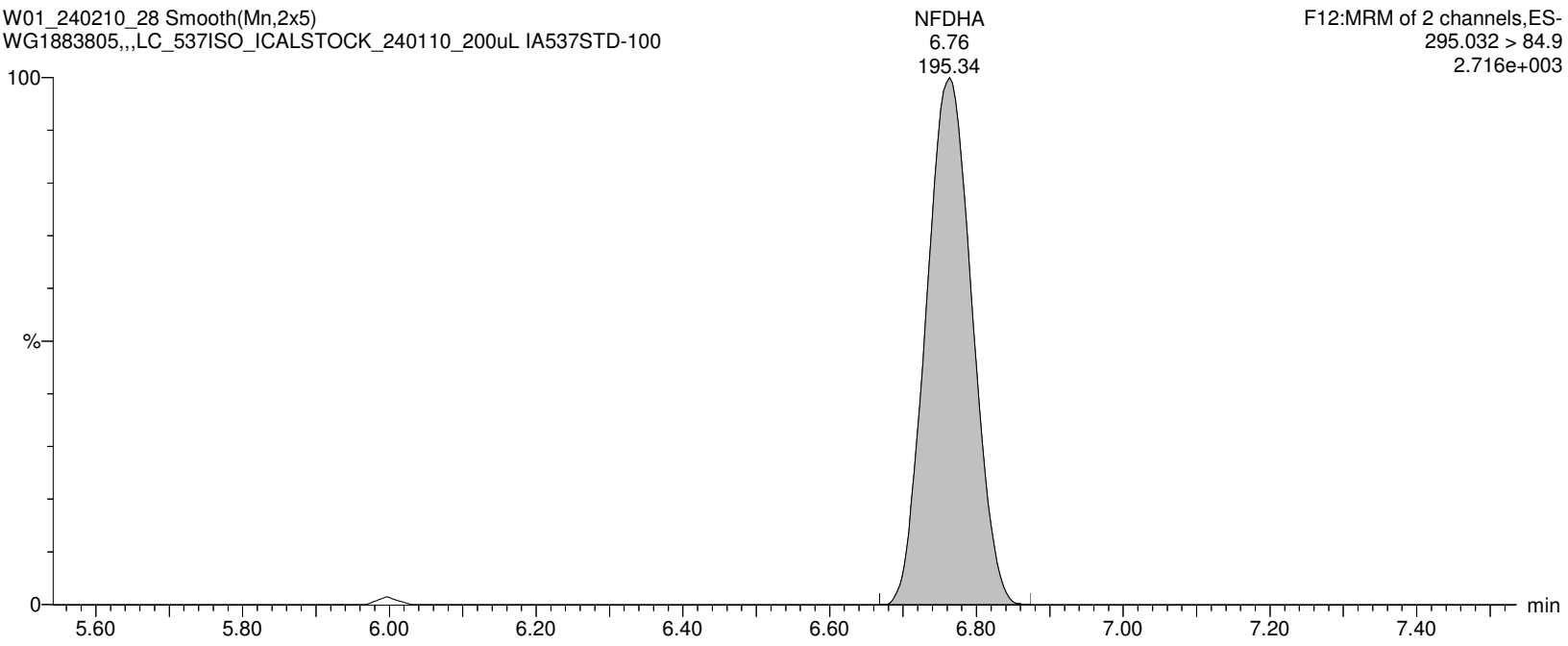

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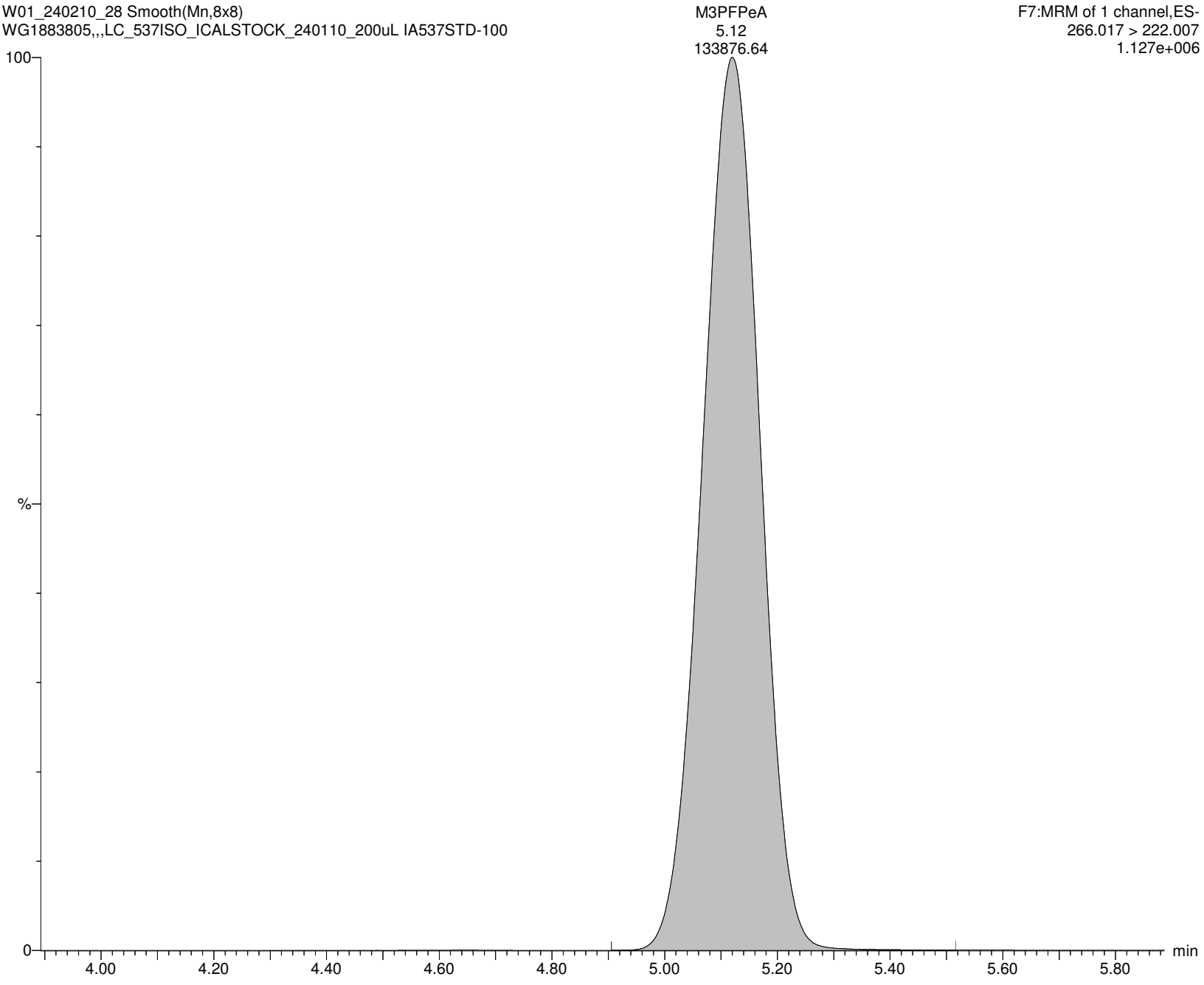

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Vial: 1:B,8
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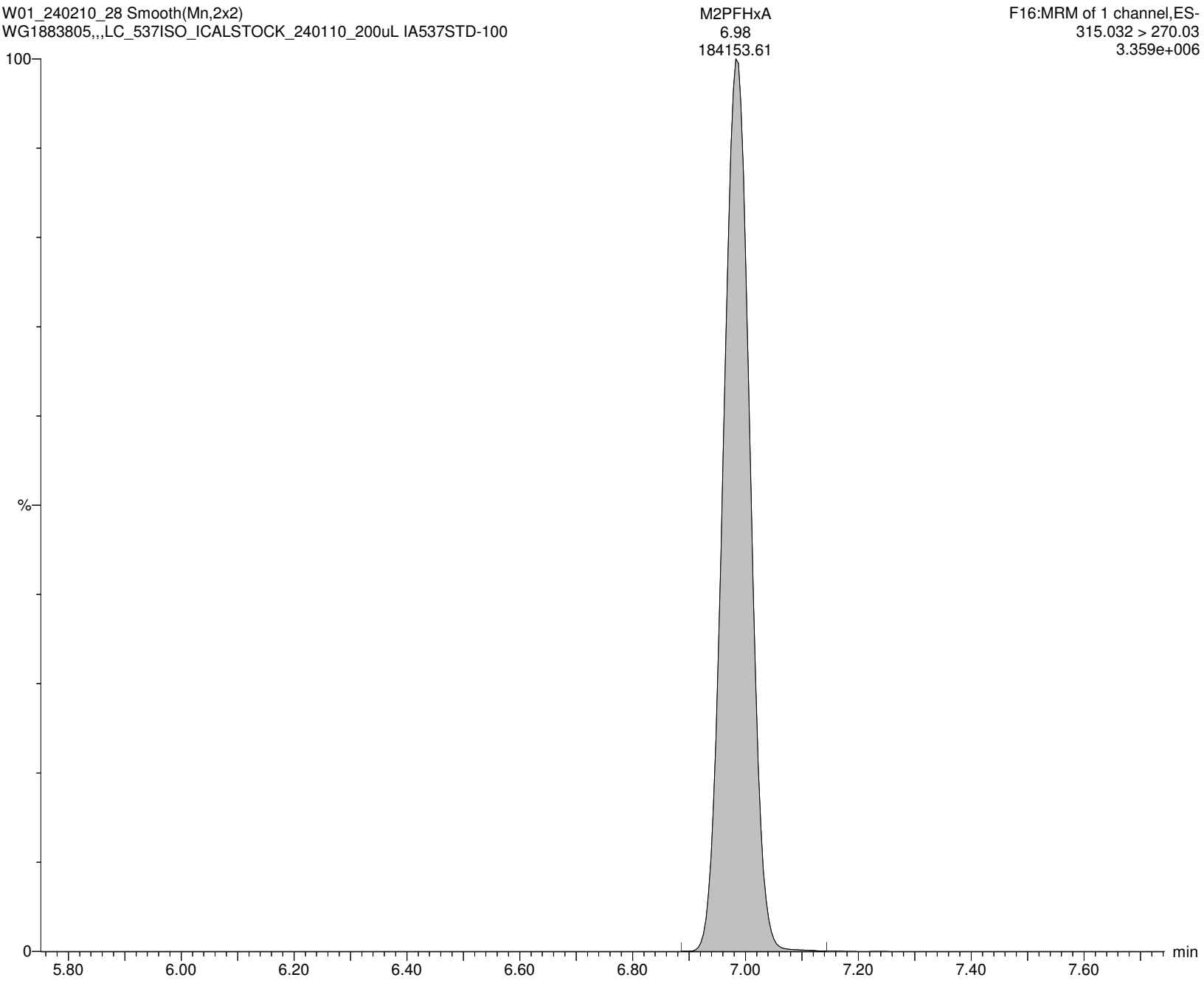

all concentration units in (ng/mL)

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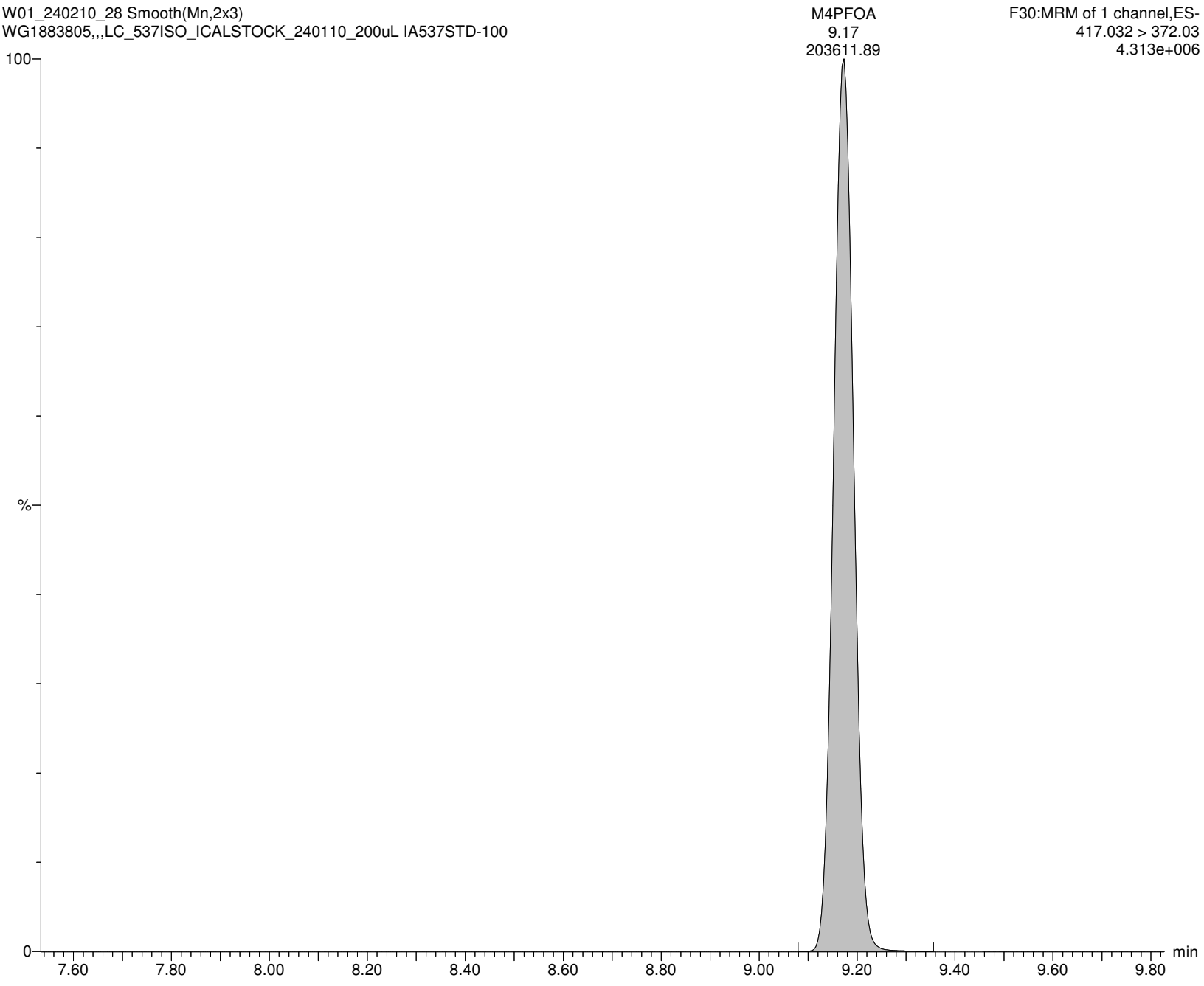

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Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240211_RT.mdb 12 Feb 2024 15:21:47
Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: IA537STD-250
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Date: 10-Feb-2024
Time: 18:26:00
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_250uL
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	1950020		240.596		na	96.2
2	M3PFBA	INT STD	2.23	216.009 > 171.999	79147		10.320		na	103.2
3	MPFBA	INT STD	2.23	217.001 > 171.999	89480		9.936		na	99.4
4	PFPeA	2706-90-3	5.11	263.039 > 219.03	2105057		241.159		na	96.5
5	M5PFPEA	INT STD	5.11	268.001 > 222.999	86347		9.183		na	91.8
6	PFBS	375-73-5	5.74	299.092 > 80.062	663820		213.408	1.81	NO	96.2
7	M3PFBS	INT STD	5.74	302.069 > 80.062	28074		10.000		na	107.3
8	4:2FTS	757124-72-4	6.87	327.146 > 307.139	229294		ND	2.05	NO	
9	M2-4:2FTS	INT STD	6.87	329.13 > 309.124	22166		26.796		na	285.7
10	PFHxA	307-24-4	6.95	313.047 > 269.037	2651186		241.888	14.61	NO	96.8
11	M5PFHxA	INT STD	6.95	318.009 > 273.007	115417		9.877		na	98.8
12	PFPeS	2706-91-4	7.25	349.1 > 80.062	617975		233.822	1.55	NO	99.4
13	PFHpA	375-85-9	8.17	363.055 > 319.045	2856889		239.577	4.46	NO	95.8
14	M4PFHpA	INT STD	8.17	367.025 > 322.022	118674		9.545		na	95.5
15	br-PFHxS	355-46-4	8.10	399.107 > 80.062	150519	M5,M7	43.017	1.83	NO	99.5
16	L-PFHxS	355-46-4	8.32	399.107 > 80.062	454142		183.765	1.46	NO	99.2
17	PFHxS	355-46-4		399.107 > 80.062	604660		226.782		na	
18	M3PFHxS	INT STD	8.33	402.084 > 80.062	24098		8.924		na	94.1
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.12	413.063 > 369.053	3206486		241.904	11.43	NO	96.8
21	PFOA	335-67-1		413.063 > 369.053	3206486		241.904		na	
22	M8PFOA	INT STD	9.12	421.002 > 376.	128926		9.543		na	95.4
23	M2PFOA	INT STD	9.12	415.048 > 370.045	133475		8.991		na	89.9
24	6:2FTS	27619-97-2	9.07	427.161 > 407.155	195371		ND	3.41	NO	
25	M2-6:2FTS	INT STD	9.07	429.146 > 409.14	21151		22.254		na	234.0
26	PFHpS	375-92-8	9.21	449.115 > 80.062	637270		232.697	1.57	NO	97.7
27	PFNA	375-95-1	9.90	463.071 > 419.061	3118642		240.775	7.05	NO	96.3
28	M9PFNA	INT STD	9.89	472.002 > 427.	128547		9.159		na	91.6
29	br-PFOS	1763-23-1	9.76	499.123 > 80.062	232520	M5,M7	48.730	3.33	NO	99.4
30	L-PFOS	1763-23-1	9.95	499.123 > 80.062	549437		181.848	1.58	NO	99.4
31	PFOS	1763-23-1		499.123 > 80.062	781957		230.578		na	
32	M4PFOS	INT STD	9.95	503.093 > 80.062	29557		7.981		na	83.1
33	M8PFOS	INT STD	9.95	507.062 > 80.062	29596		9.386		na	97.9
34	PFDA	335-76-2	10.55	513.078 > 469.069	2344505		241.671	4.94	NO	96.7
35	M2PFDA	INT STD	10.55	515.063 > 470.061	104424		7.783		na	77.8
36	M6PFDA	INT STD	10.55	519.033 > 474.03	99676		9.574		na	95.7
37	8:2FTS	39108-34-4	10.54	527.177 > 507.171	165091		ND	2.85	NO	
38	M2-8:2FTS	INT STD	10.54	529.162 > 509.155	19016		18.922		na	197.1
39	PFNS	68259-12-1	10.58	549.131 > 80.062	618043		238.874	1.93	NO	99.3

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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.94	573.22 > 419.061	20152		12.602		na	126.0
41	br-NMeFOSAA	2355-31-9	10.77	570.202 > 419.061	38932	M5,M7	60.281	1.12	NO	100.5
42	L-NMeFOSAA	2355-31-9	10.94	570.202 > 419.061	278317		190.266	2.35	NO	100.1
43	NMeFOSAA	2355-31-9		570.202 > 419.061	317249		250.547		na	
44	PFUnA	2058-94-8	11.13	563.086 > 519.076	2352319		249.452	6.27	NO	99.8
45	M7-PFUDA	INT STD	11.13	570.033 > 525.031	102418		9.029		na	90.3
46	PFDS	335-77-3	11.14	598.926 > 80.062	551971		240.452	1.77	NO	99.7
47	FOSA	754-91-6	10.90	498.146 > 78.07	2205519		249.328	38.22	NO	99.7
48	M8FOSA	INT STD	10.90	506.077 > 78.07	89637		11.709		na	117.1
49	d5-NEtFOSAA	INT STD	11.24	589.259 > 419.061	21699		14.398		na	144.0
50	br-NEtFOSAA	2991-50-6	11.09	584.229 > 419.061	38916	M5,M7	56.269	0.78	NO	100.0
51	L-NEtFOSAA	2991-50-6	11.25	584.229 > 419.061	276147		193.747	1.39	NO	100.0
52	NEtFOSAA	2991-50-6		584.229 > 419.061	315063		250.017		na	
53	PFDoA	307-55-1	11.62	613.094 > 569.084	3016914		249.272	7.19	NO	99.7
54	MPFDOA	INT STD	11.62	615.079 > 570.077	135333		10.630		na	106.3
55	PFTrDA	72629-94-8	12.06	663.102 > 619.092	1836066		251.963	8.85	NO	100.8
56	PFTA	376-06-7	12.44	713.11 > 669.1	2719680		249.885	15.31	NO	100.0
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	111928		9.749		na	97.5
58	M3HFPO-DA	INT STD	7.36	287.02 > 169.022	97400		128.456		na	64.2
59	HFPO-DA	13252-13-6	7.36	285.035 > 169.022	701866		2492.930	5.37	YES	99.7
60	ADONA	958445-44-8	8.35	377.06 > 251.028	3249911		225.457	85.92	NO	95.4
61	PFHxDA		12.83	813.122 > 769.116	4444389		237.452	52.99	NO	95.0
62	PFODA		13.05	913.411 > 869.131	1635632		186.292	101.94	NO	74.5
63	M2PFHxDA		12.83	815.102 > 770.108	171179		9.626		na	96.3
64	PFDoS		12.05	699.154 > 80.062	523205		240.250	1.52	NO	99.3
65	M2D4-10:2FTS		11.63	633.201 > 612.189	7346		16.981		na	86.6
66	10:2FTS		11.64	627.192 > 607.186	130737	M4,M7	227.815	3.28	NO	94.3
67	9CL-PF3ONS		10.31	531.096 > 351.07	1614978		231.163	2.35	NO	99.1
68	11CL-PFOUdS		11.41	631.096 > 451.076	1564316		234.431	2.93	NO	99.4
69	NMeFOSA		11.54	512.163 > 169.022	2600531		1160.414	1.57	NO	92.8
70	d3-NMeFOSA		11.53	515.183 > 169.022	216401		100.173		na	100.2
71	NEtFOSA		11.86	526.192 > 169.022	2671328		1168.680	8.76	NO	93.5
72	d5-NEtFOSA		11.84	531.222 > 169.022	219804		100.895		na	100.9
73	NMeFOSE		11.54	616 > 59	1371839		626.823		na	100.3
74	d7-NMeFOSE		11.52	623 > 59	235111		99.160		na	99.2
75	NEtFOSE		11.84	630 > 59	1346839		628.209		na	100.5
76	d9-NEtFOSE		11.82	639 > 59	317240		122.893		na	122.9
77	PFPrS		3.60	249.084 > 80.062	749477		228.745	3.05	NO	99.5
78	PFMPA		3.59	229.032 > 85.005	1328709		249.685		na	99.9
79	PFMBA		5.81	279.042 > 85.006	2002965		234.943		na	94.0
80	PFEESA		6.47	315.093 > 135.013	3518998		221.096	16.13	NO	99.4
81	NFDHA		6.73	295.032 > 201.027	35378		250.492	83.74	NO	100.2
82	M3PFPeA		5.11	266.017 > 222.007	129702		9.585		na	95.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: IA537STD-250
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Date: 10-Feb-2024
Time: 18:26:00
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.95	315.032 > 270.03	170042		10.436		na	104.4
84	M4PFOA		9.12	417.032 > 372.03	188932		10.071		na	100.7

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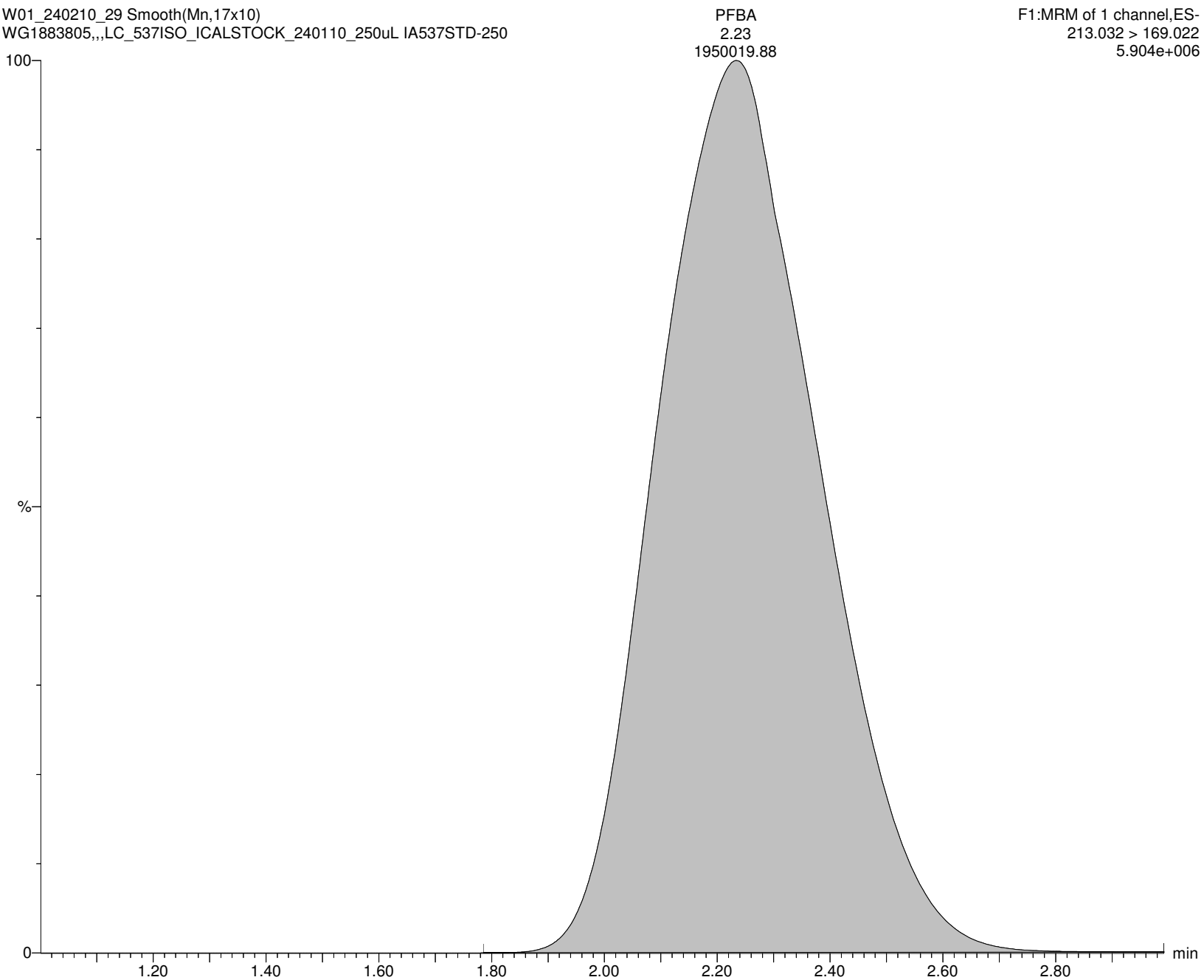

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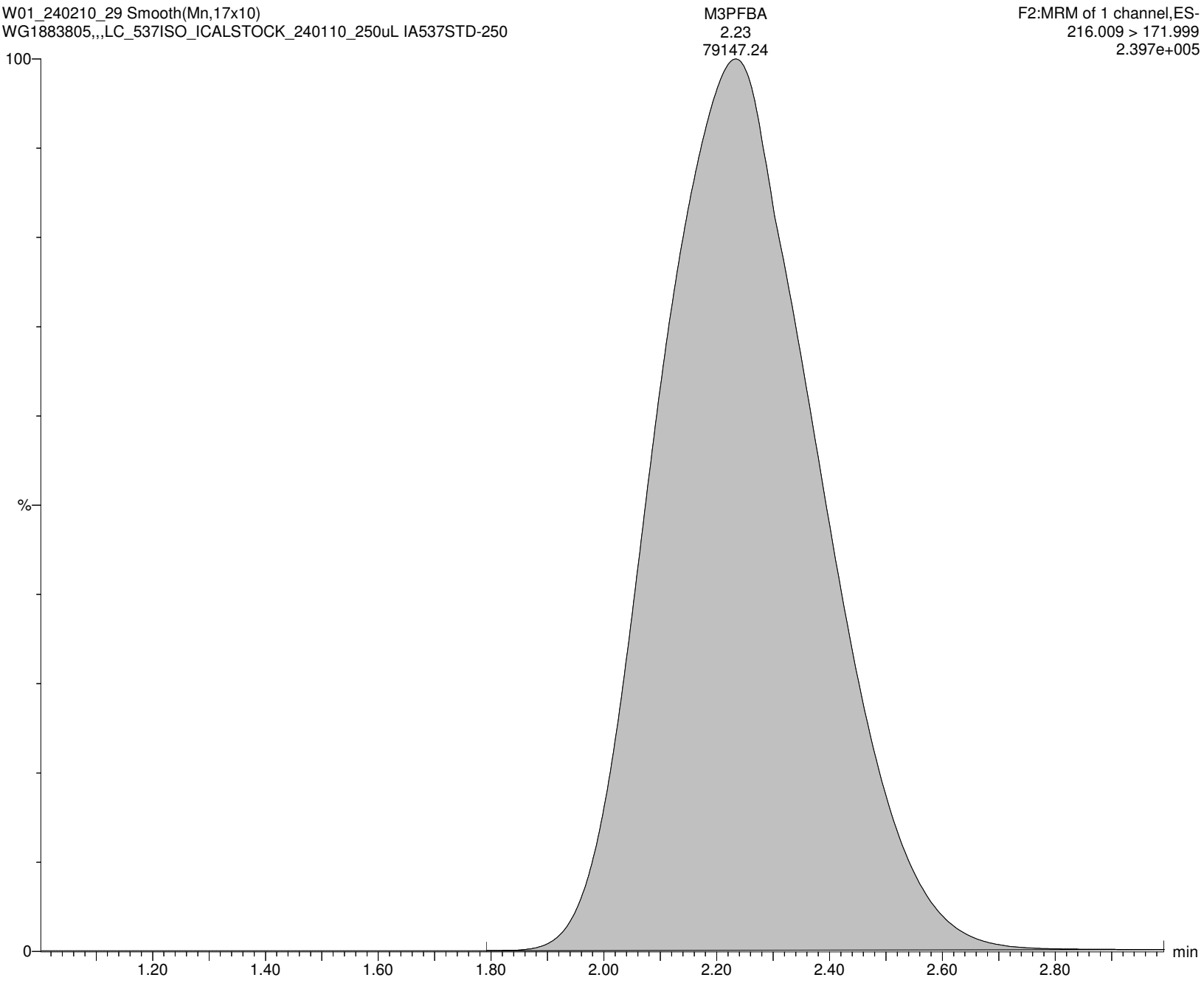

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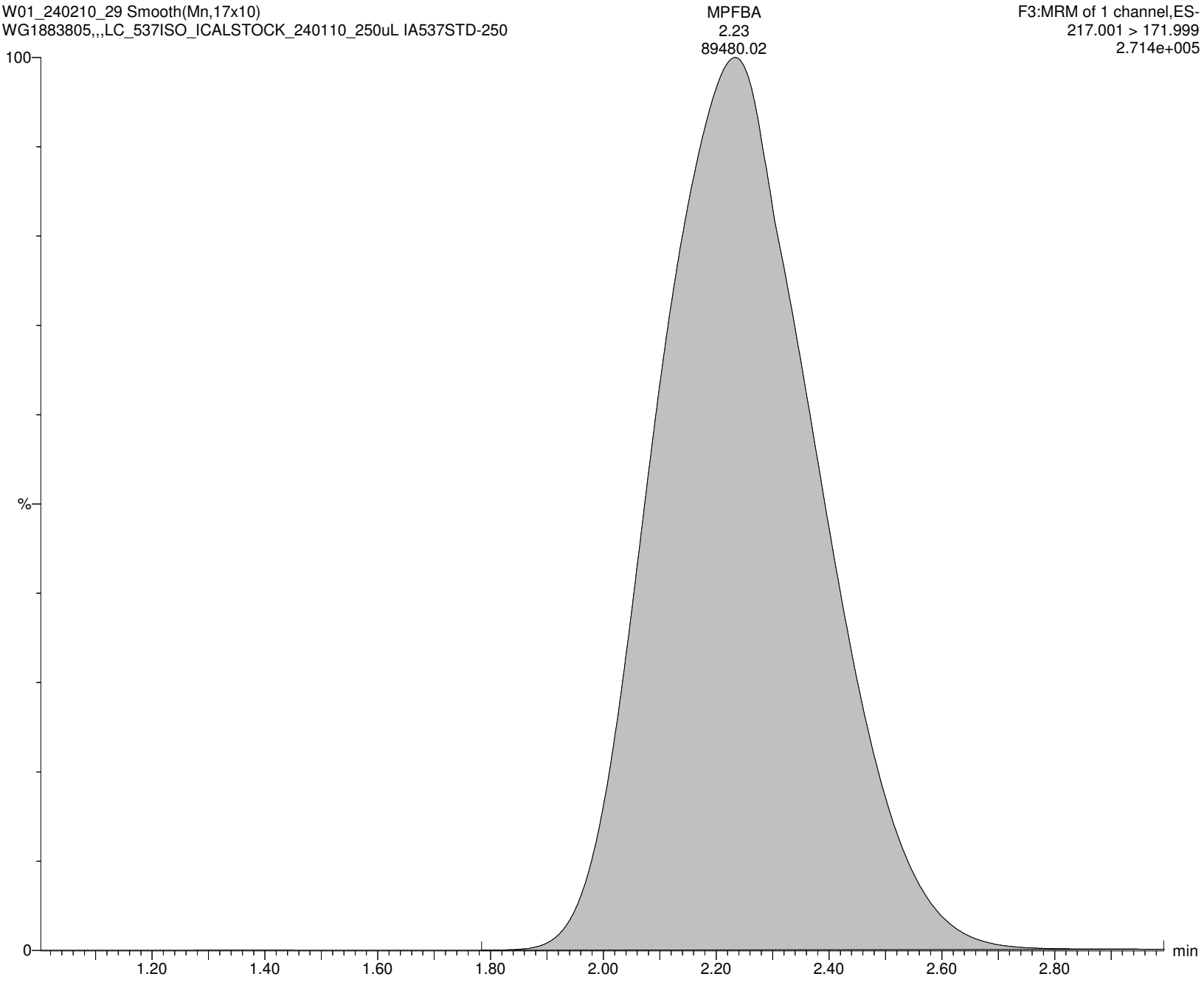

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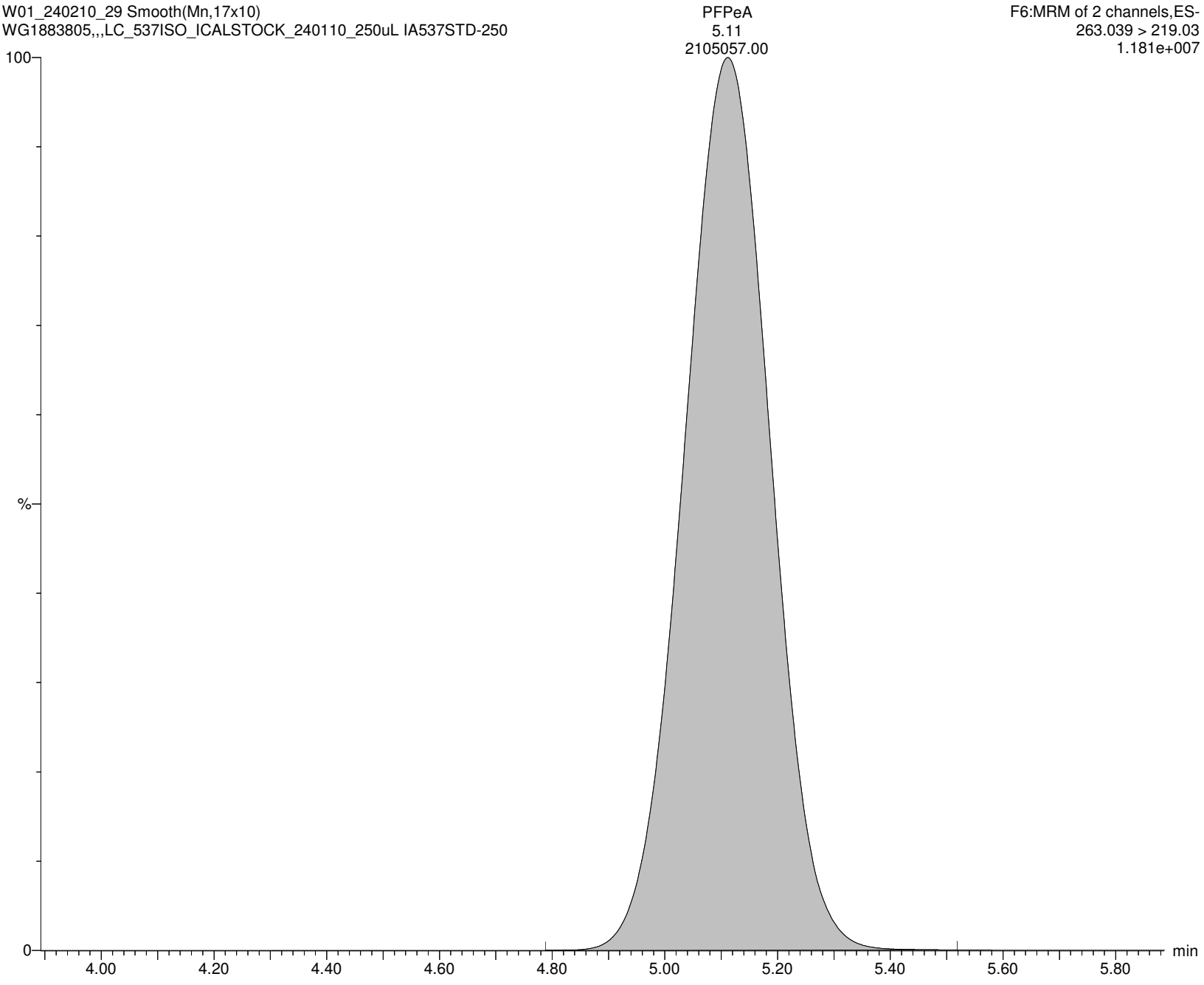

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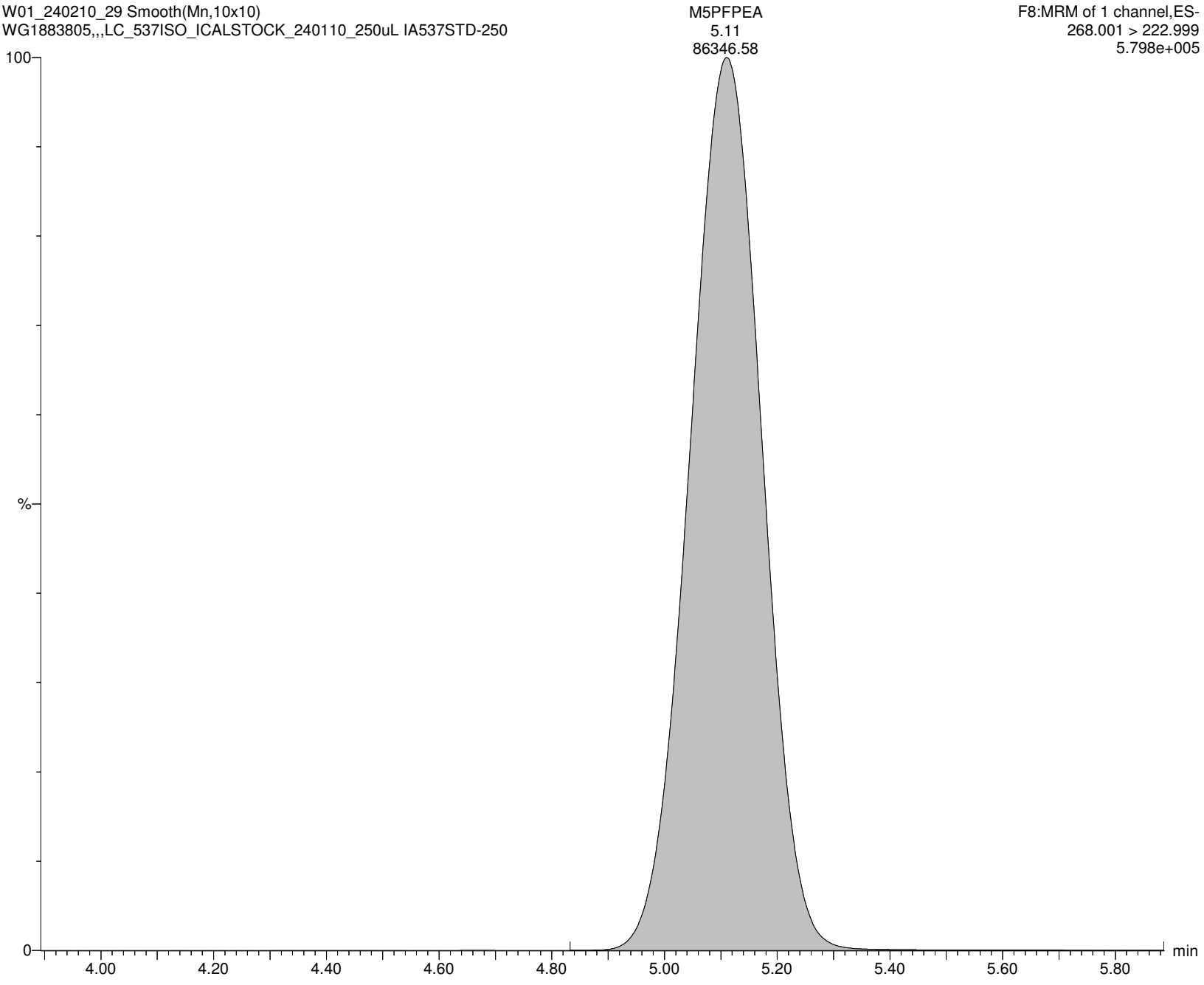

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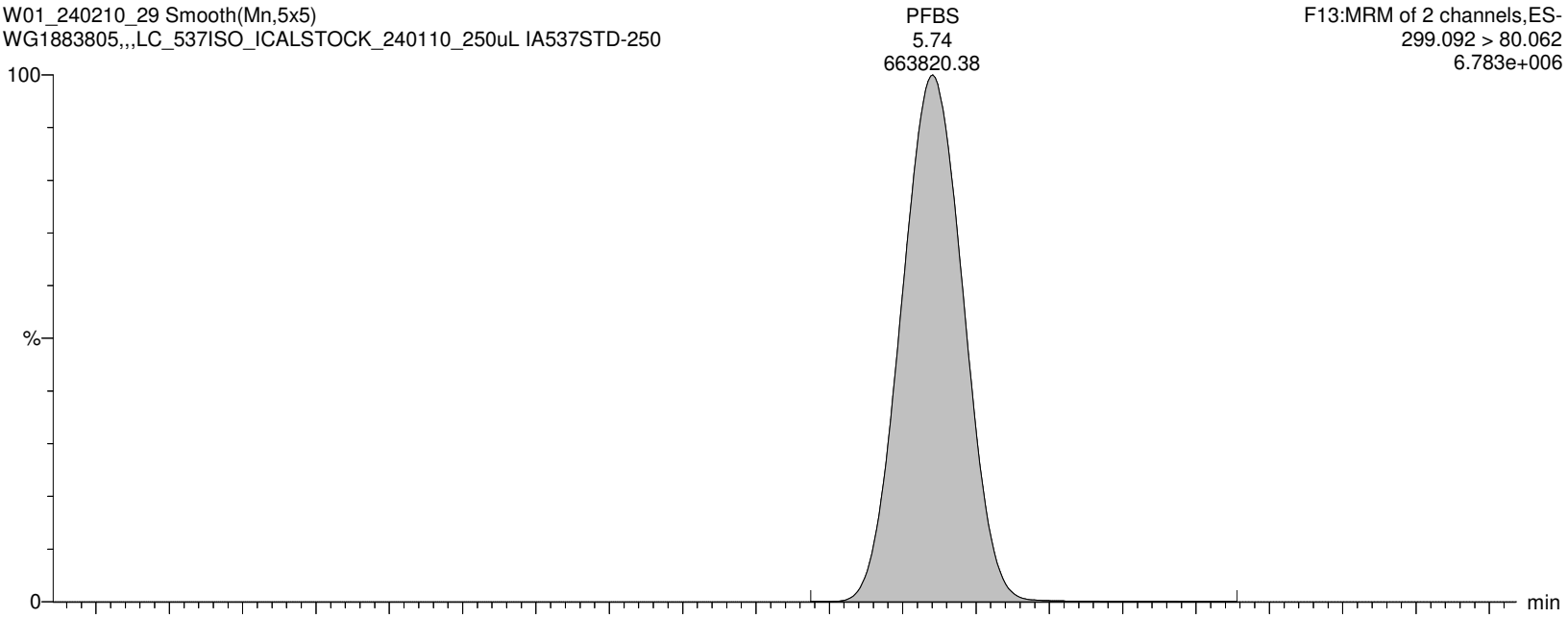

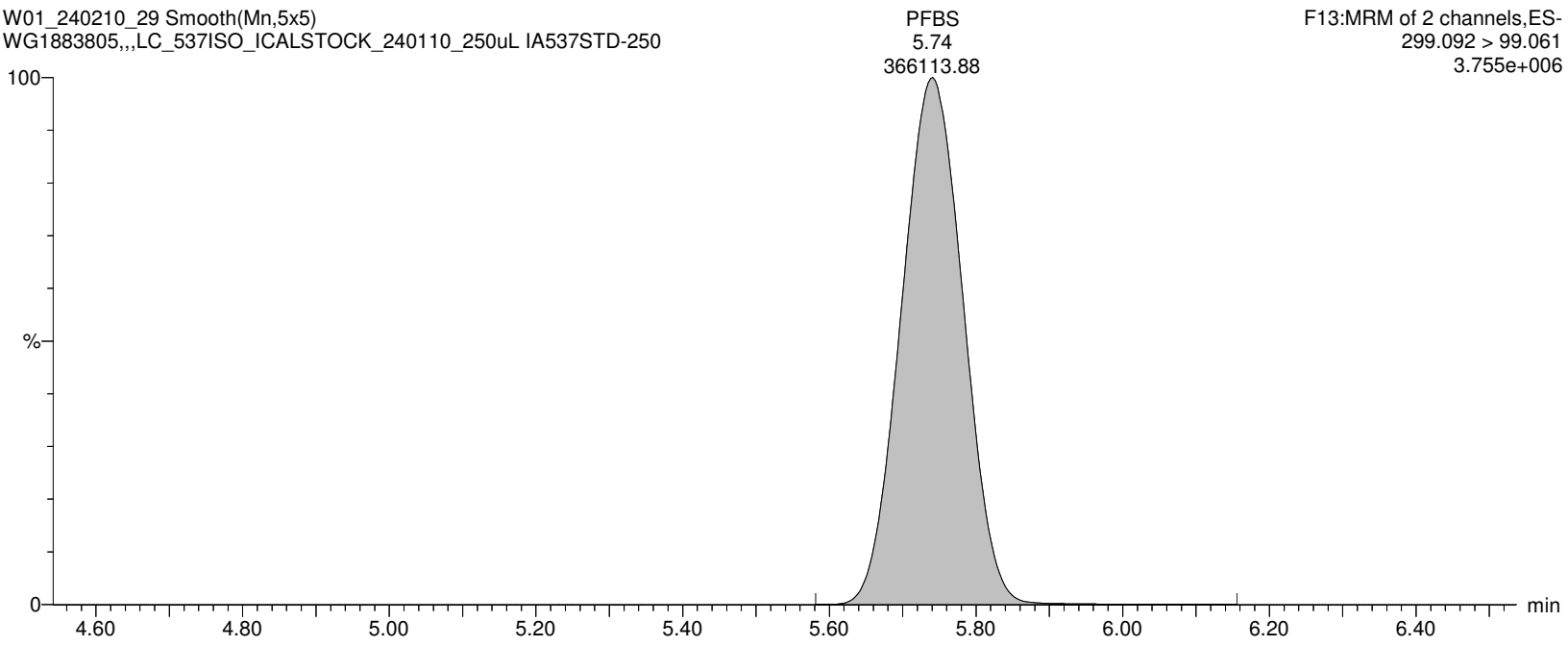

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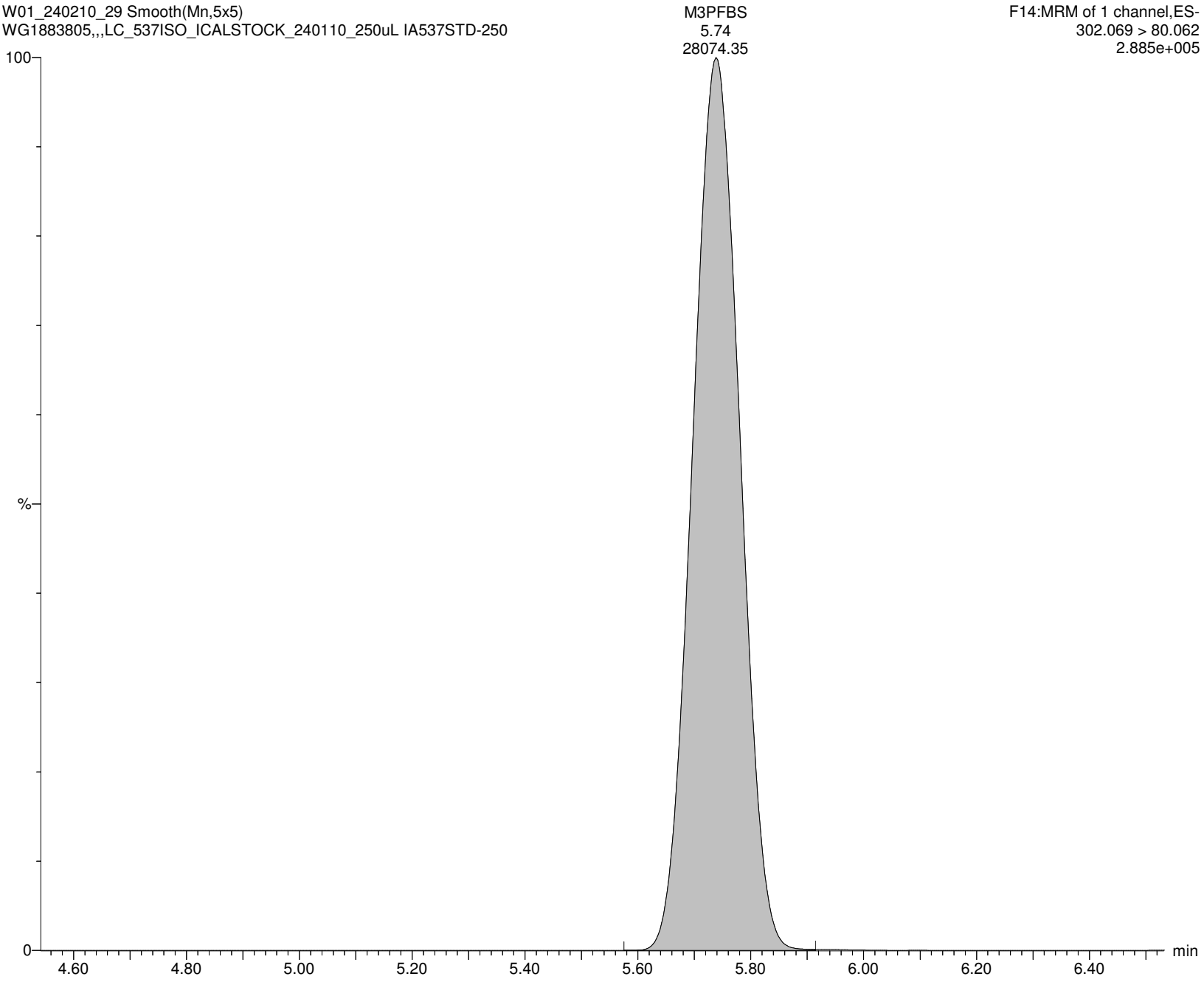
M3PFBS



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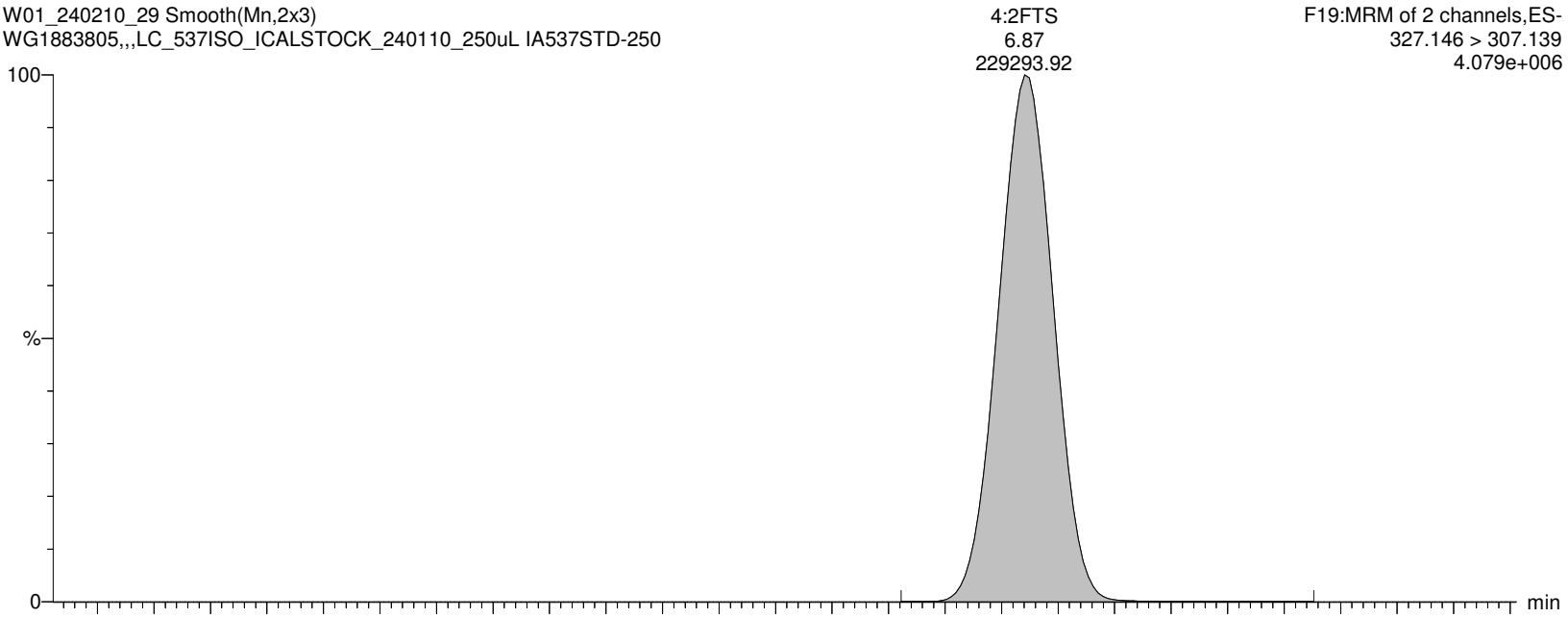

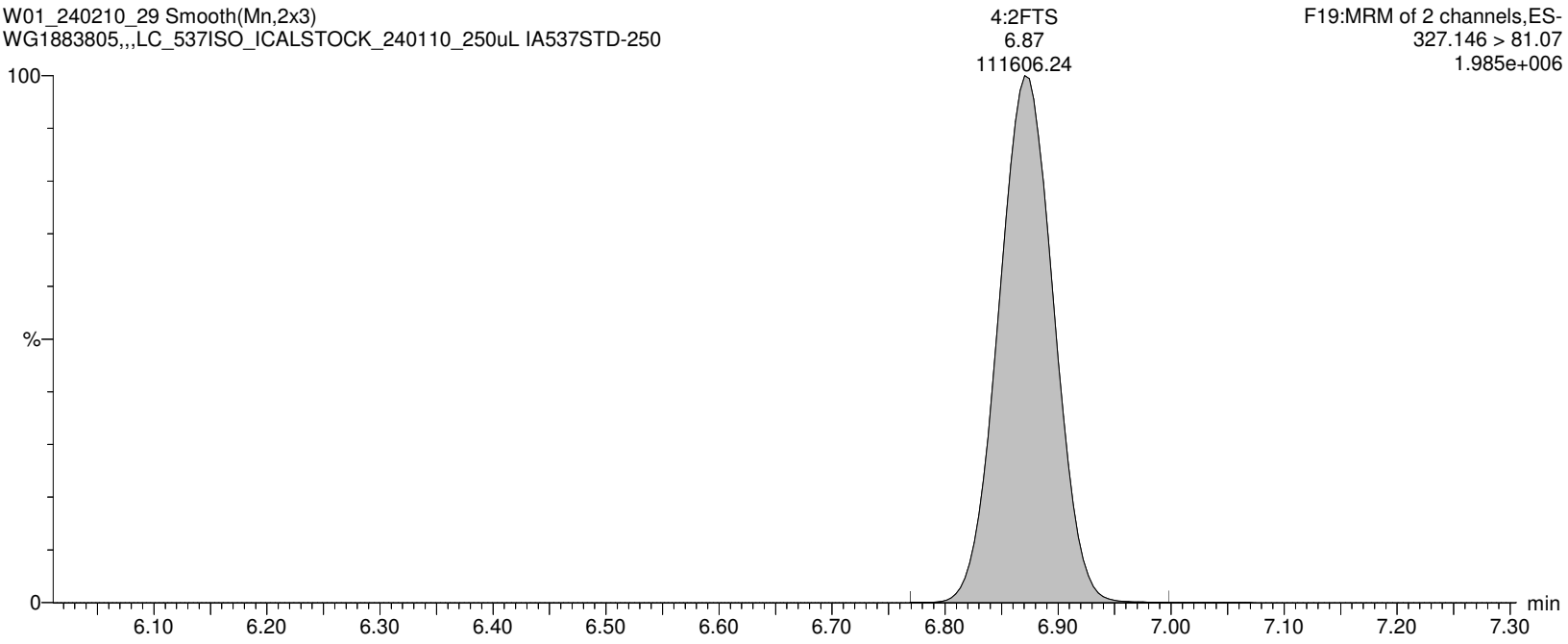

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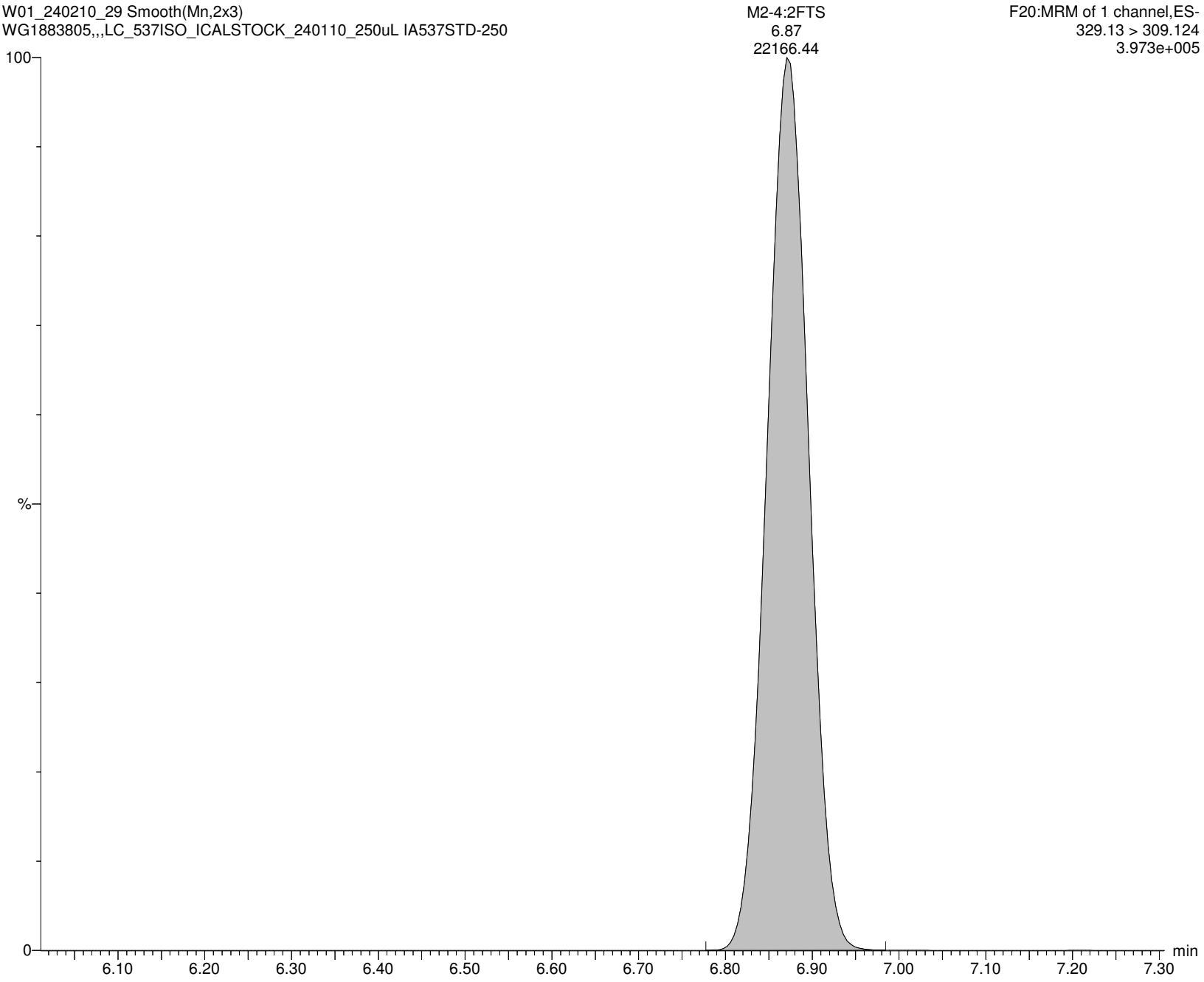

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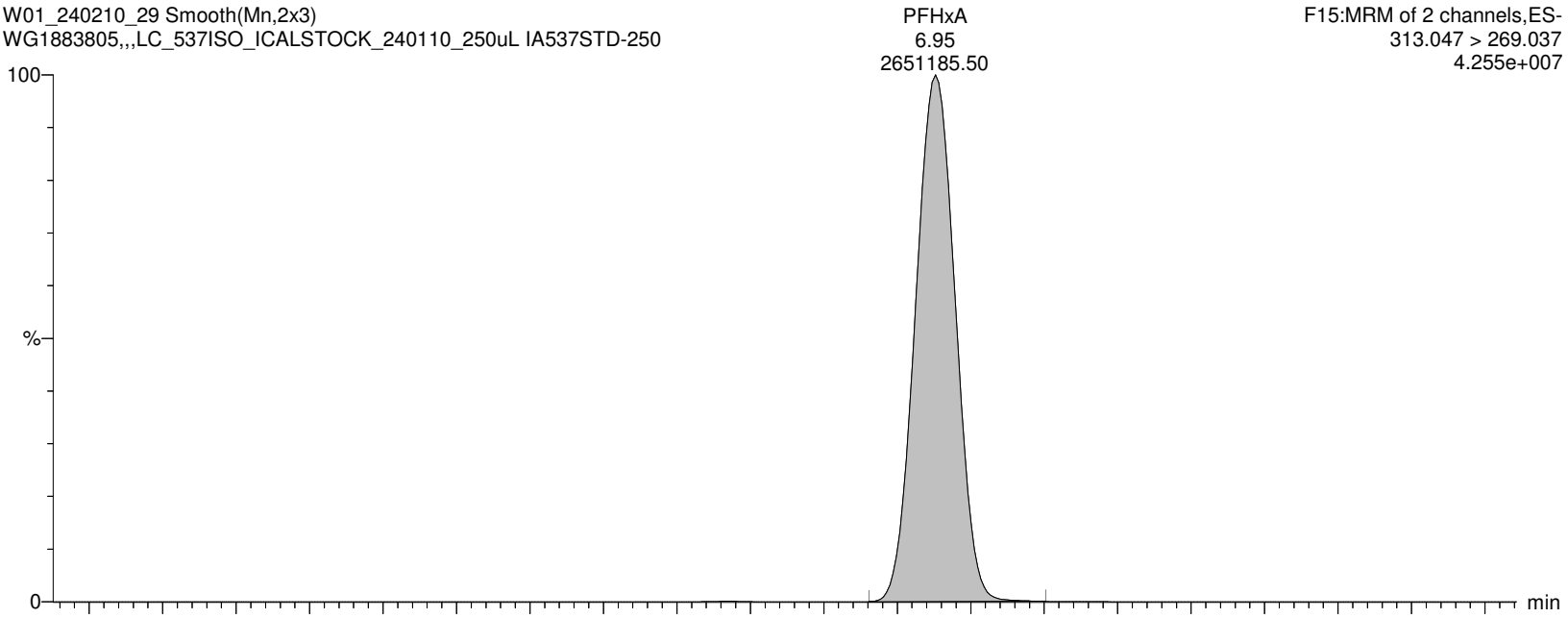

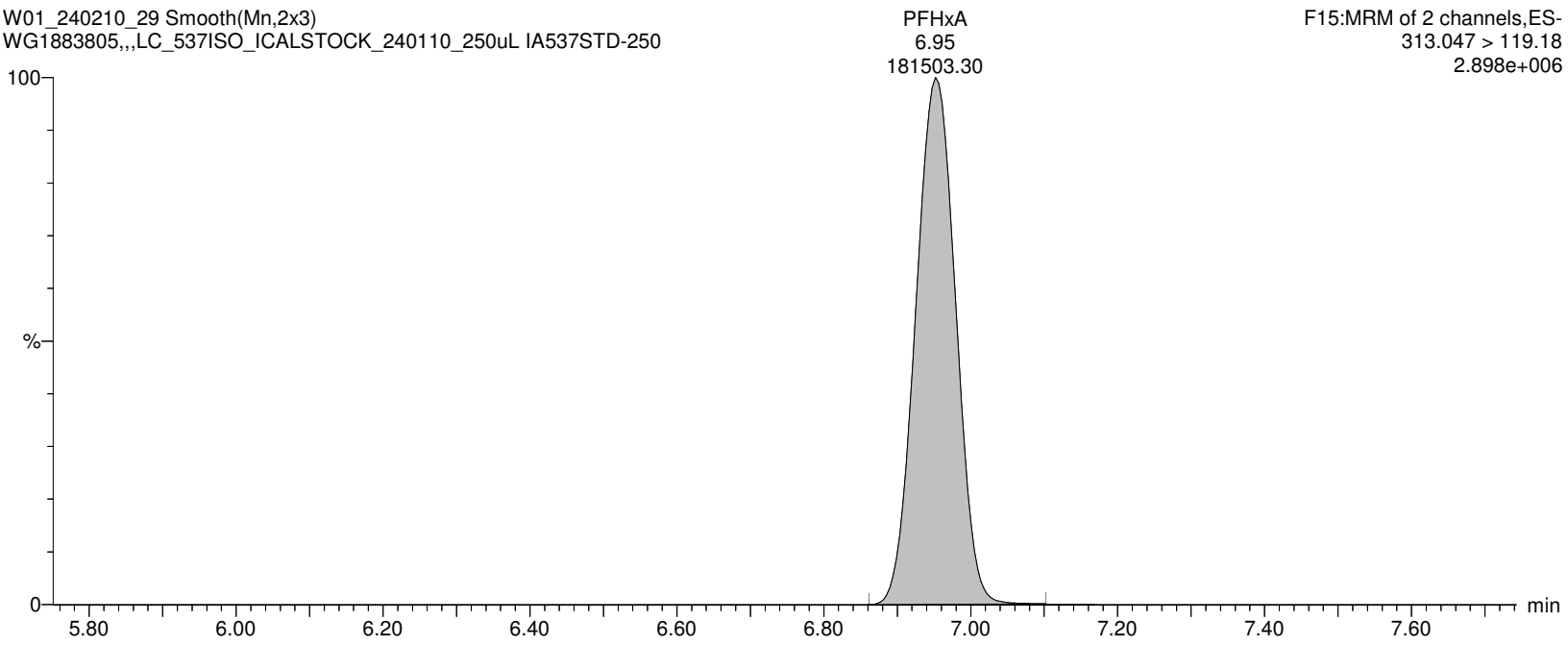

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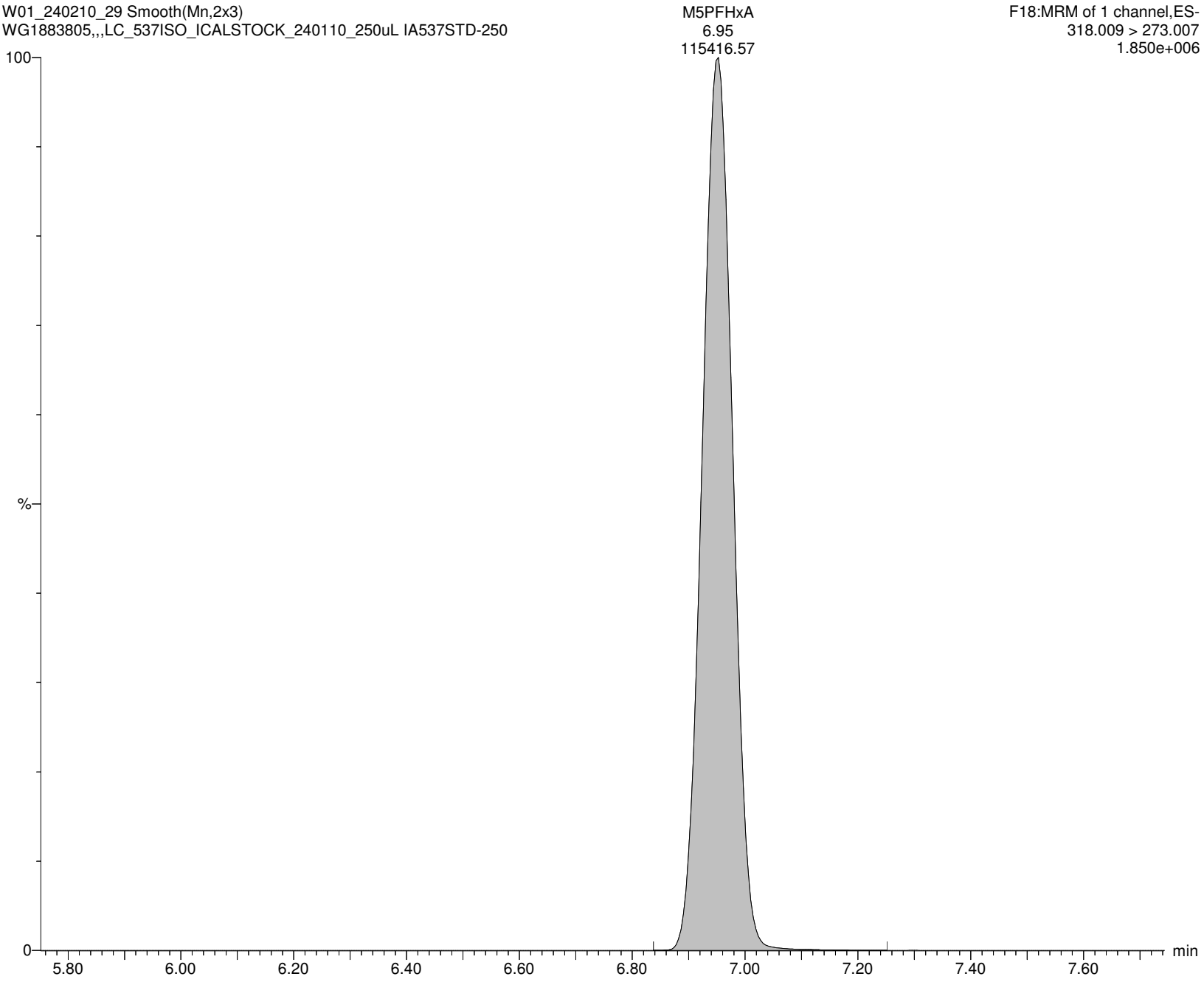

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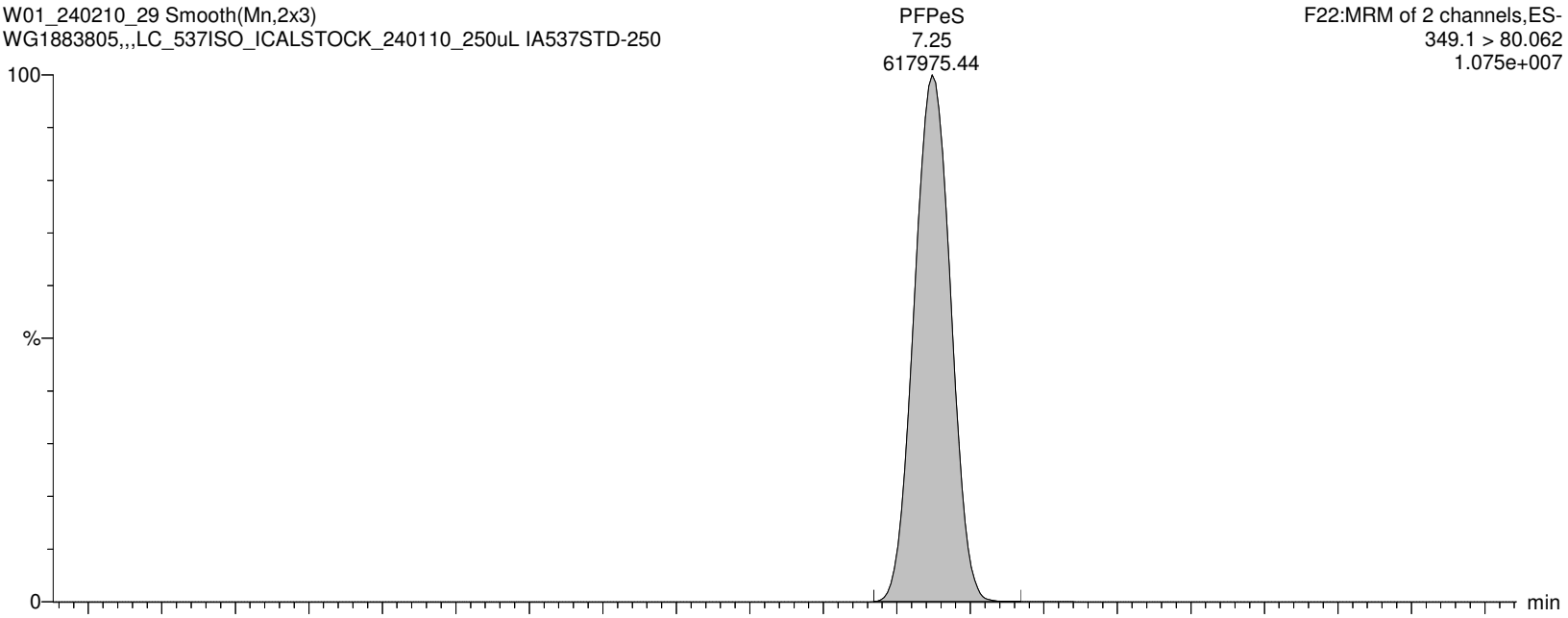

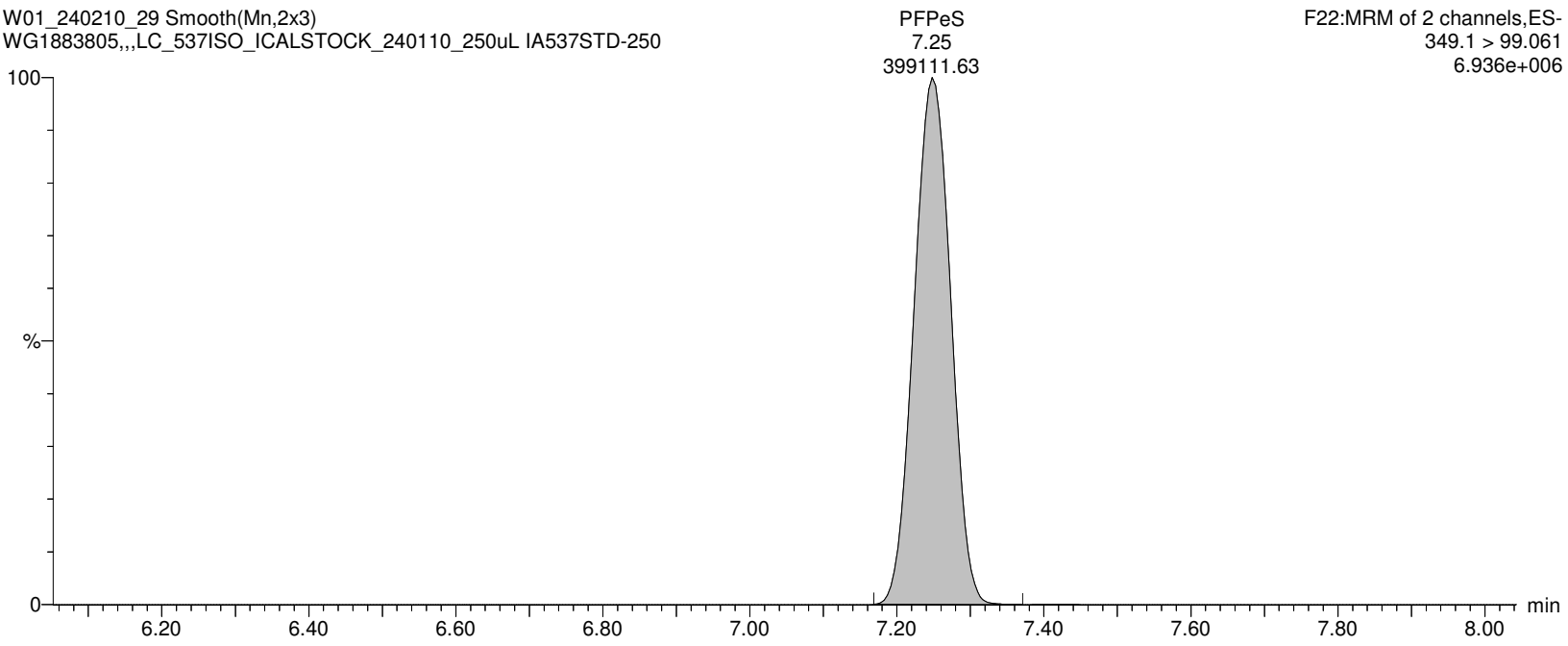

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:26 Eastern Standard Time

Name: W01_240210_29
ID: IA537STD-250
Date: 10-Feb-2024
Time: 18:26:00
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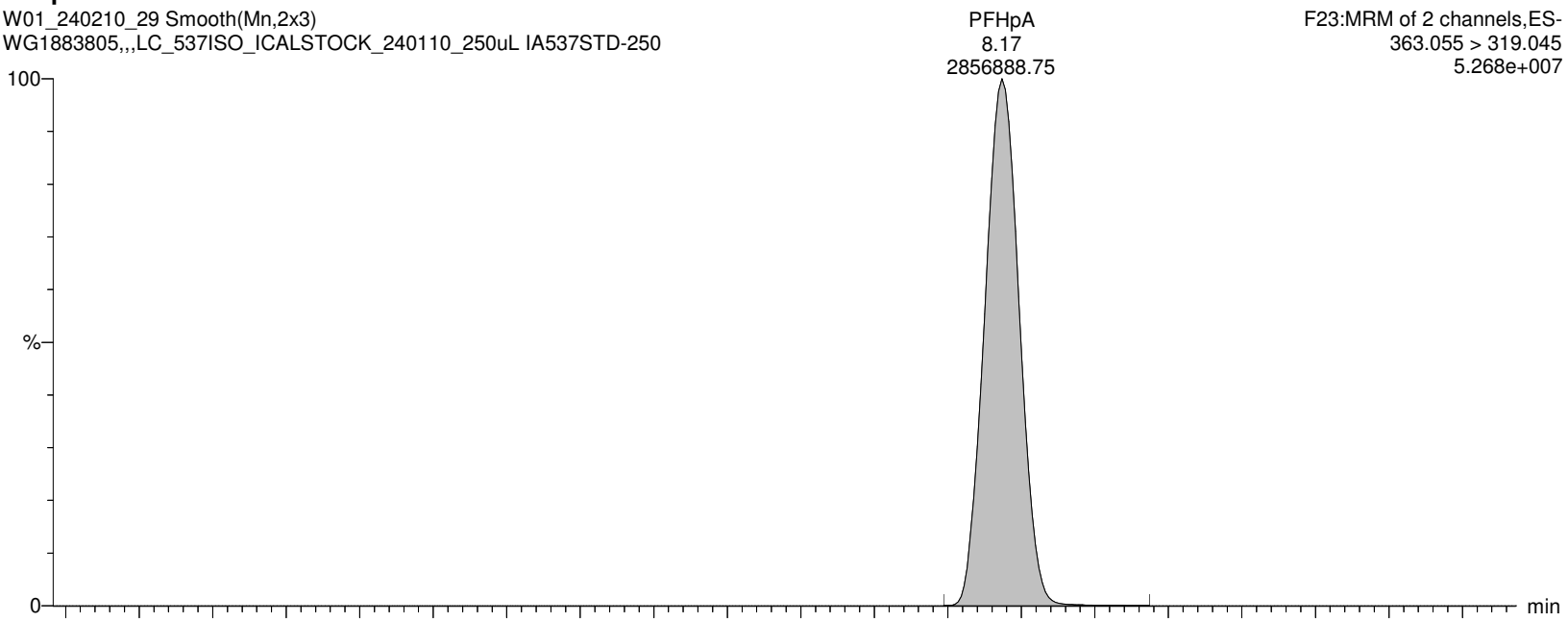

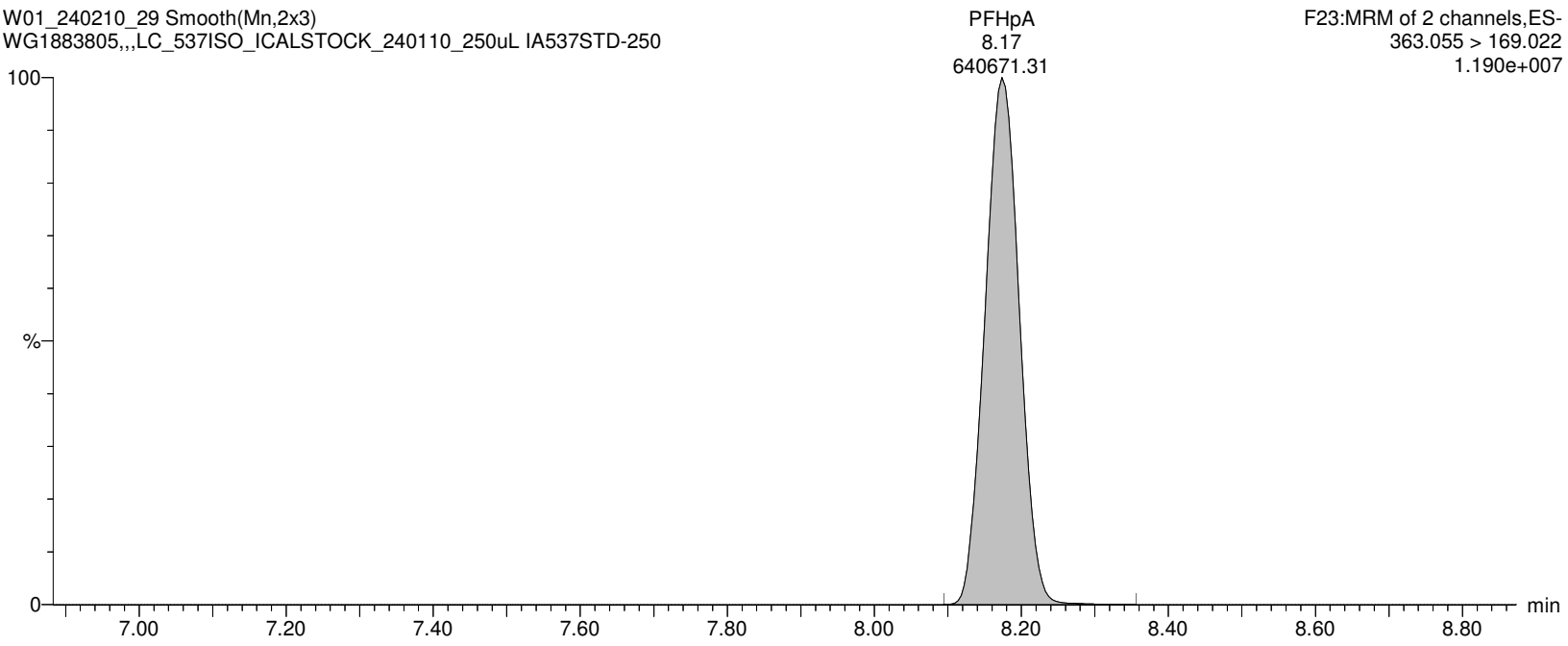

all concentration units in (ng/mL)

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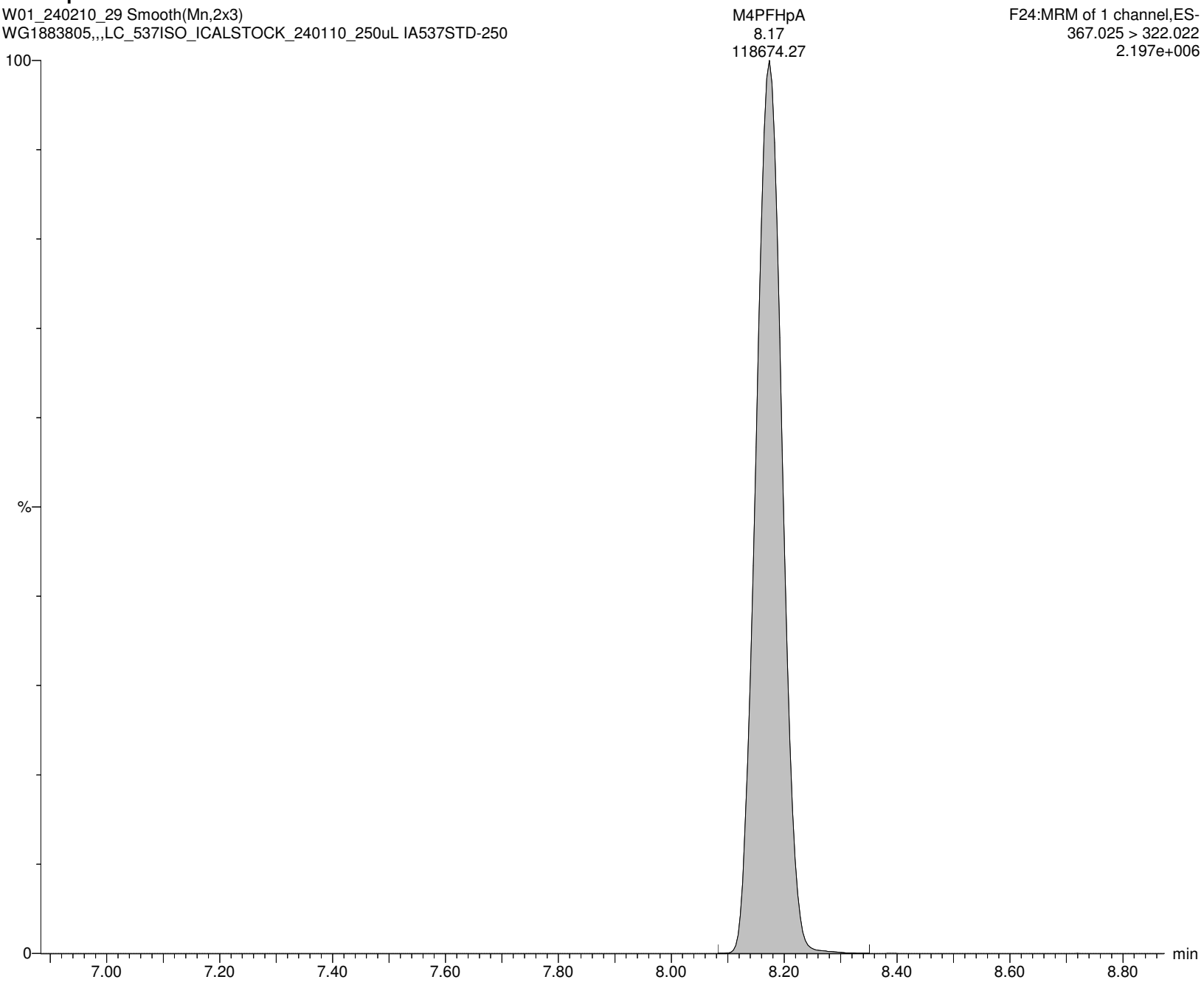

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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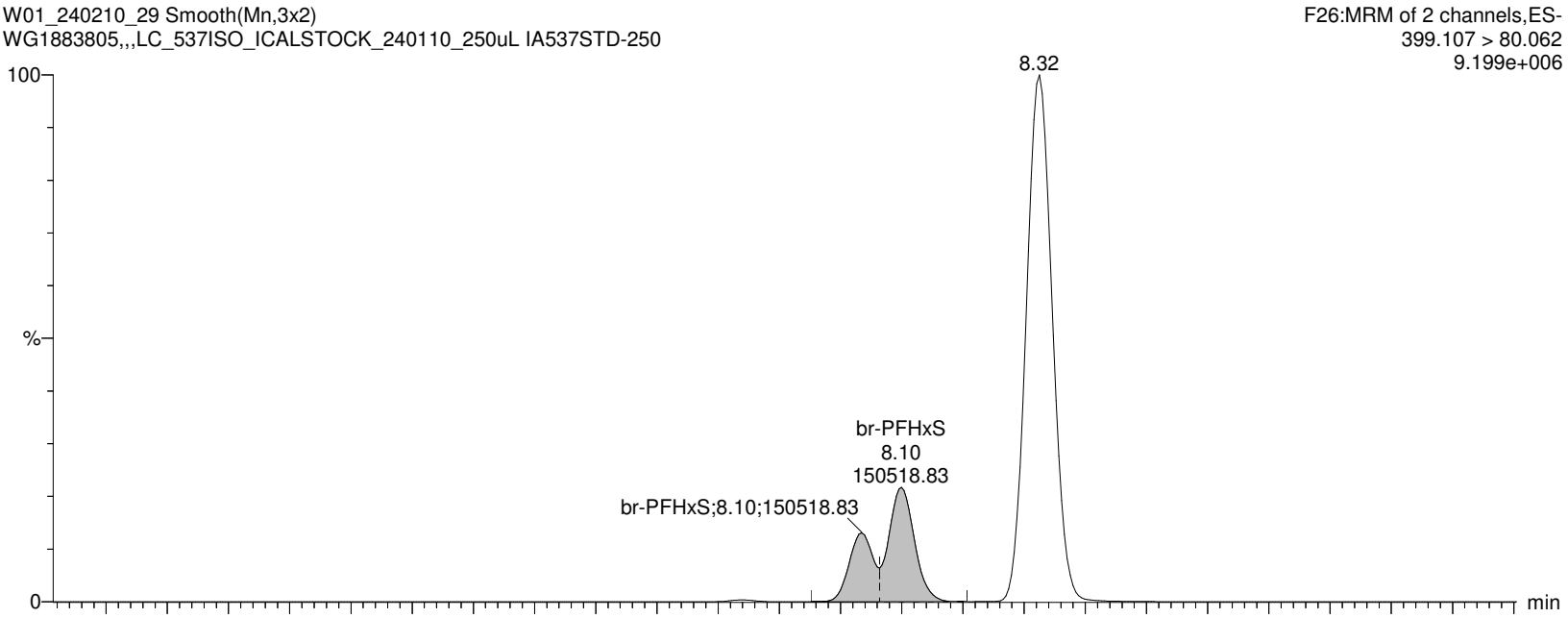

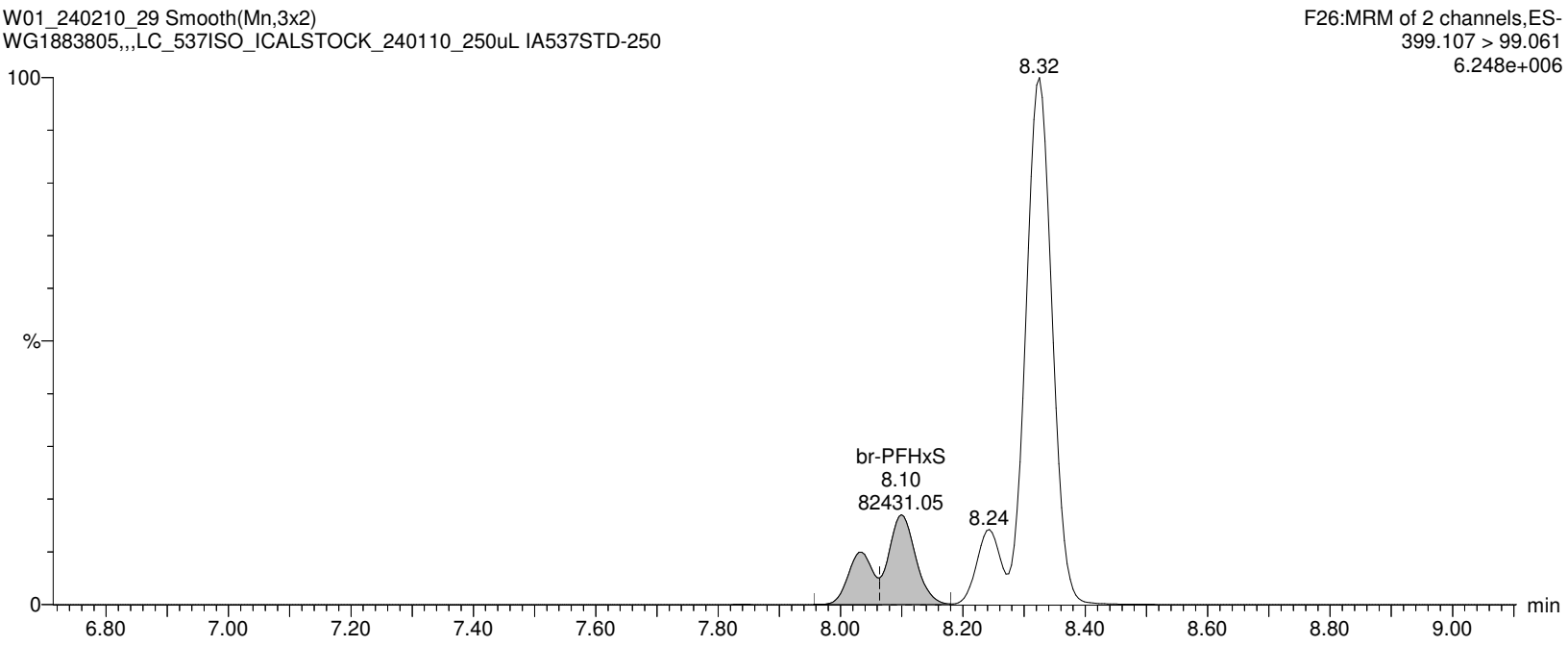

all concentration units in (ng/mL)

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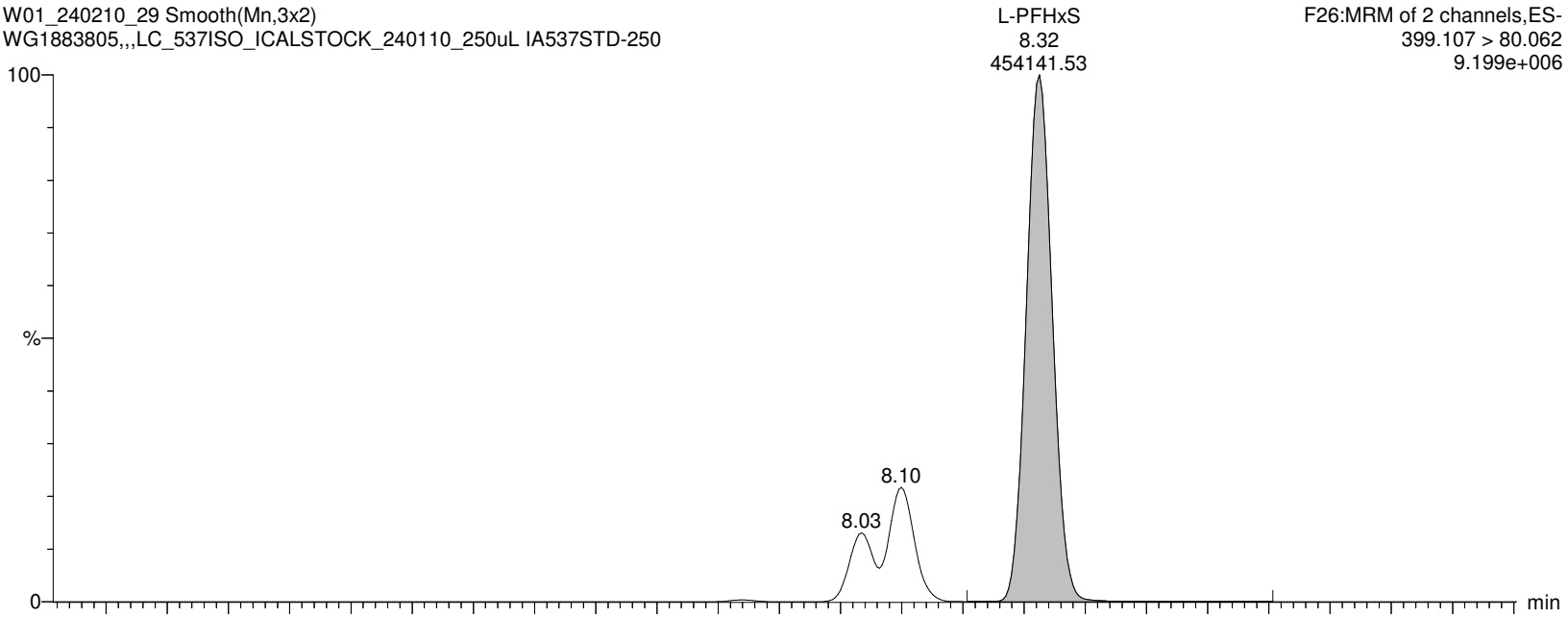

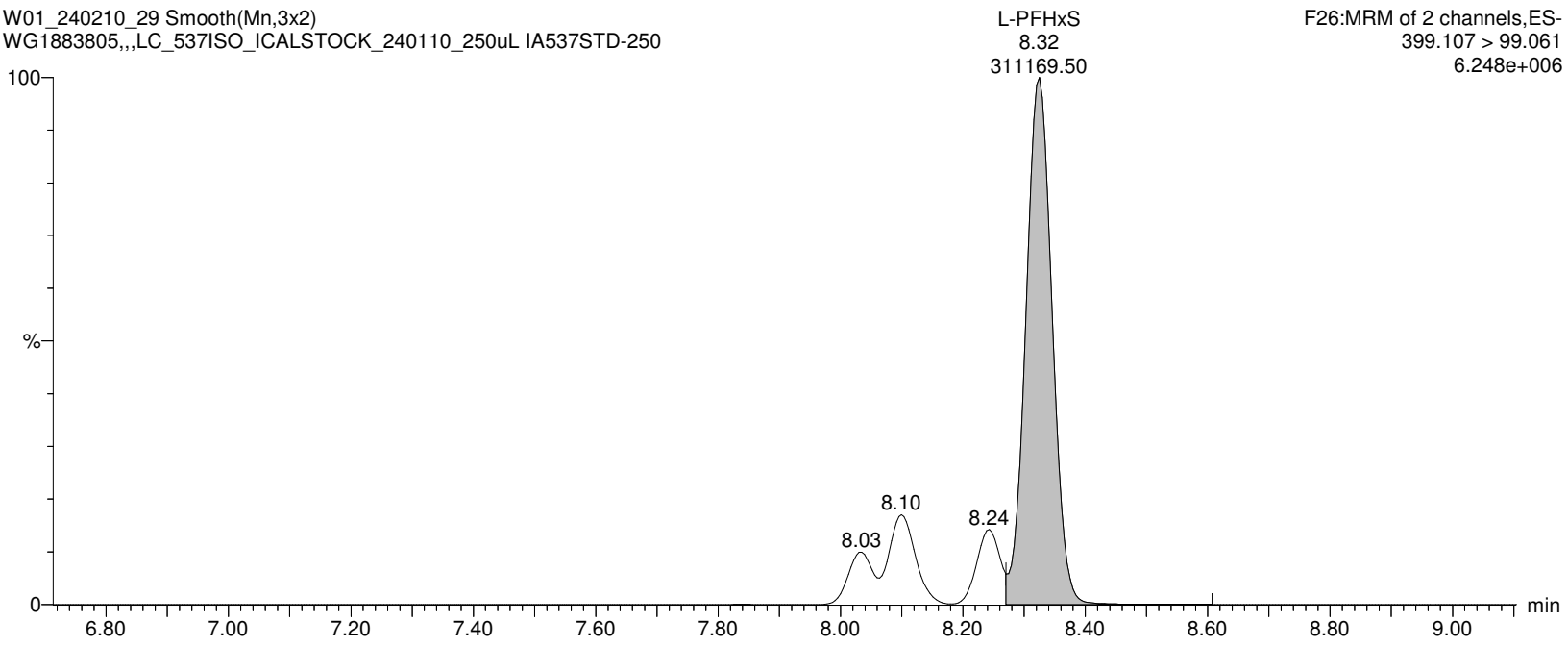

all concentration units in (ng/mL)

Alpha Analytical Inc.
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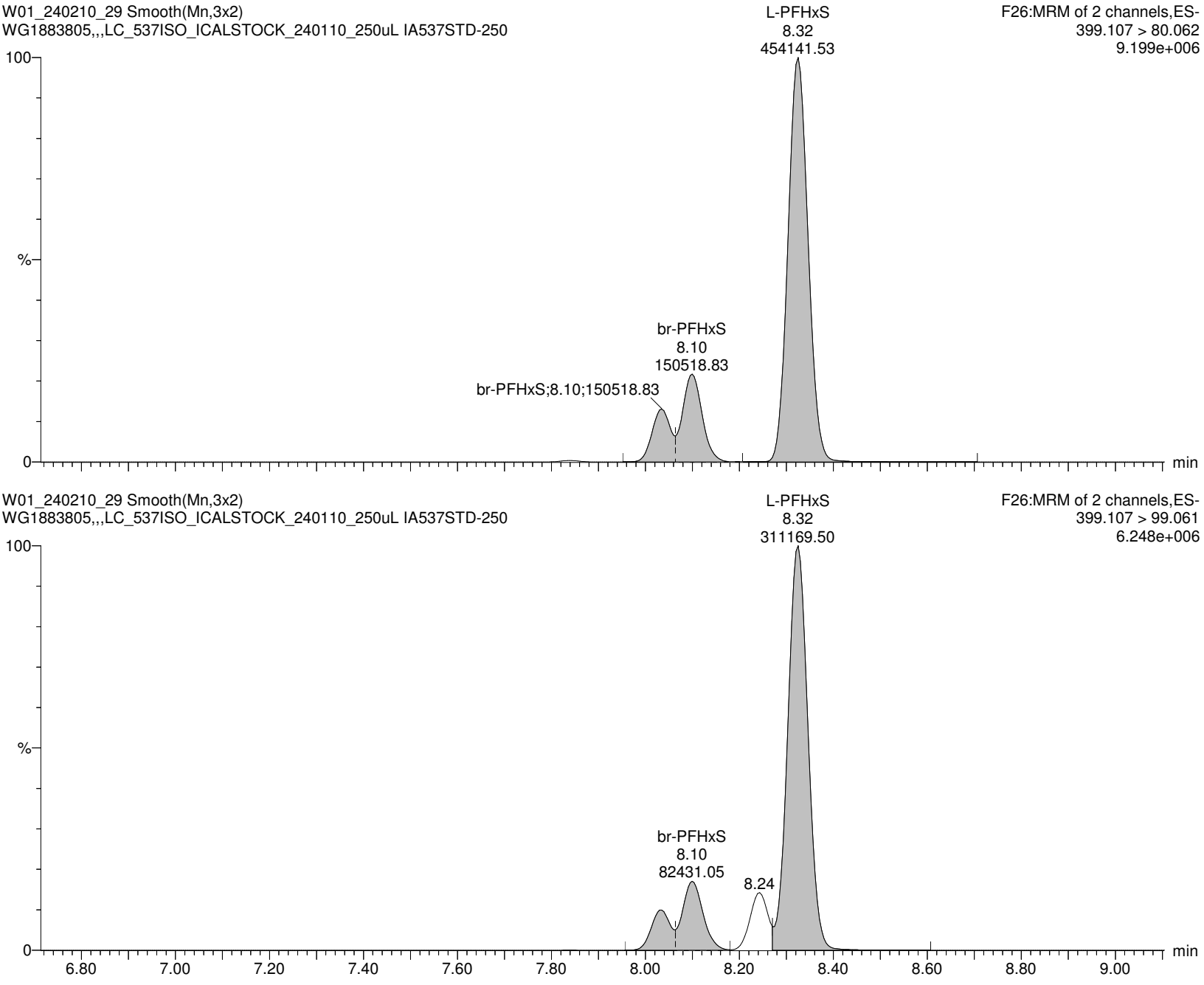

all concentration units in (ng/mL)

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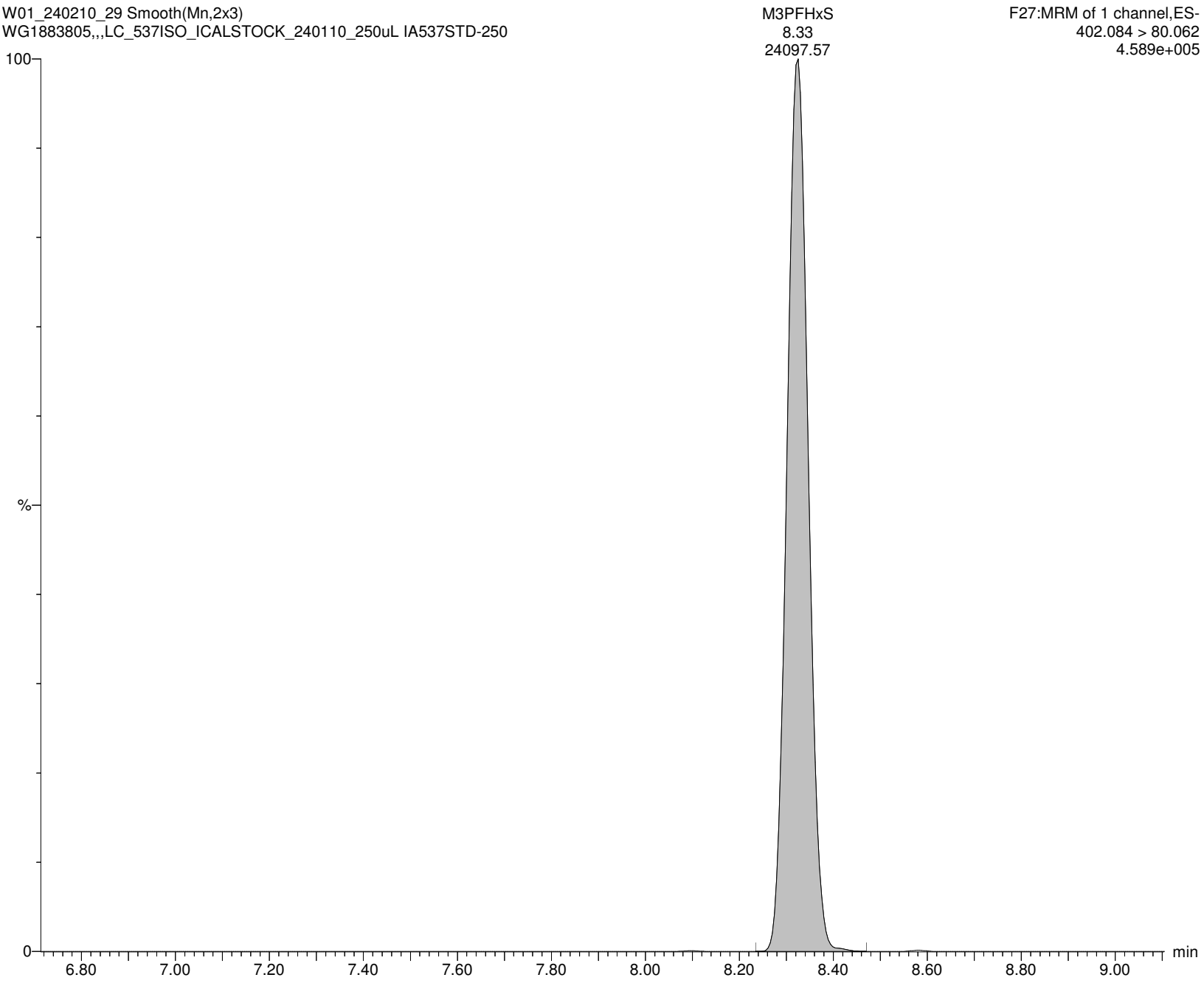

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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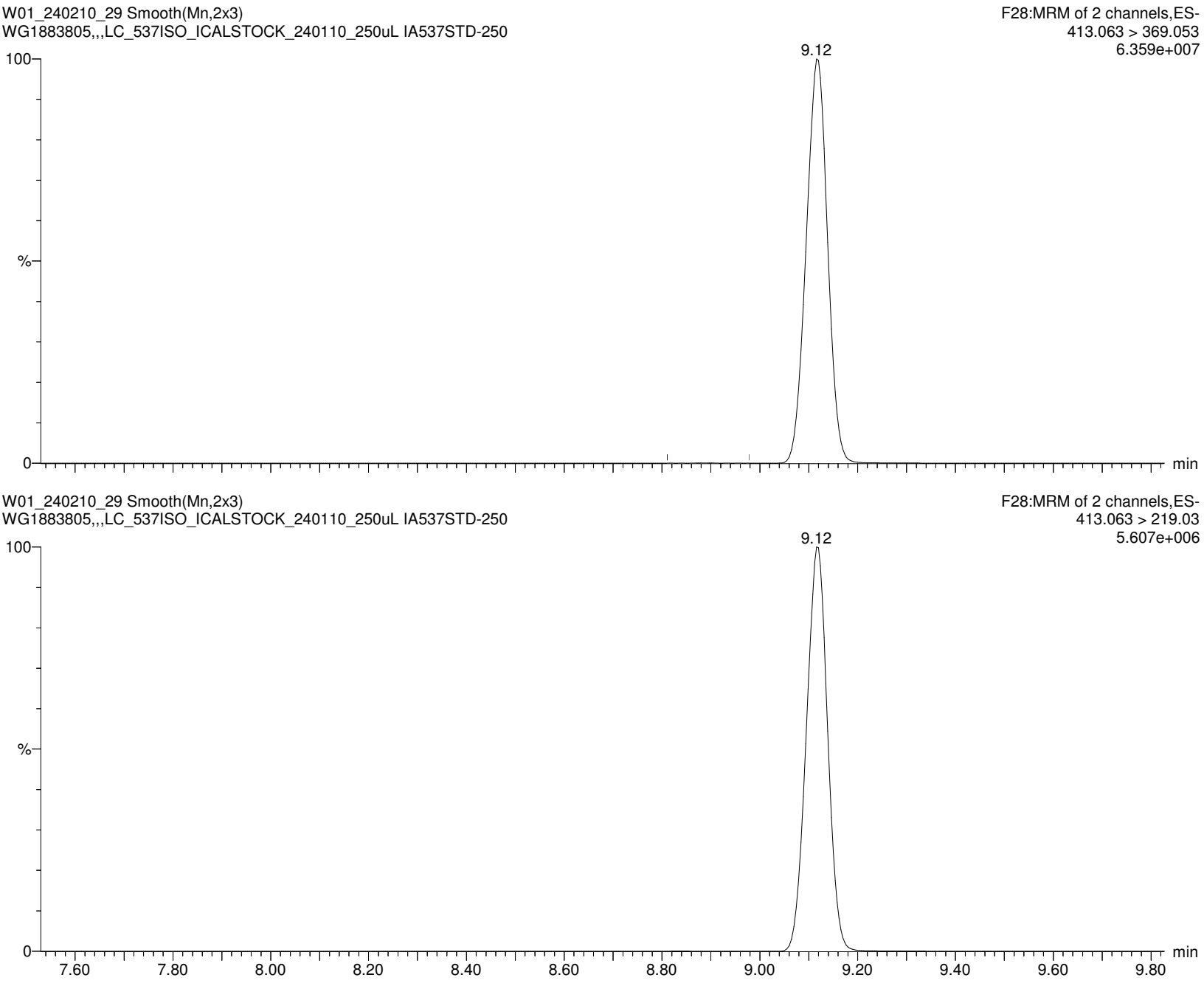

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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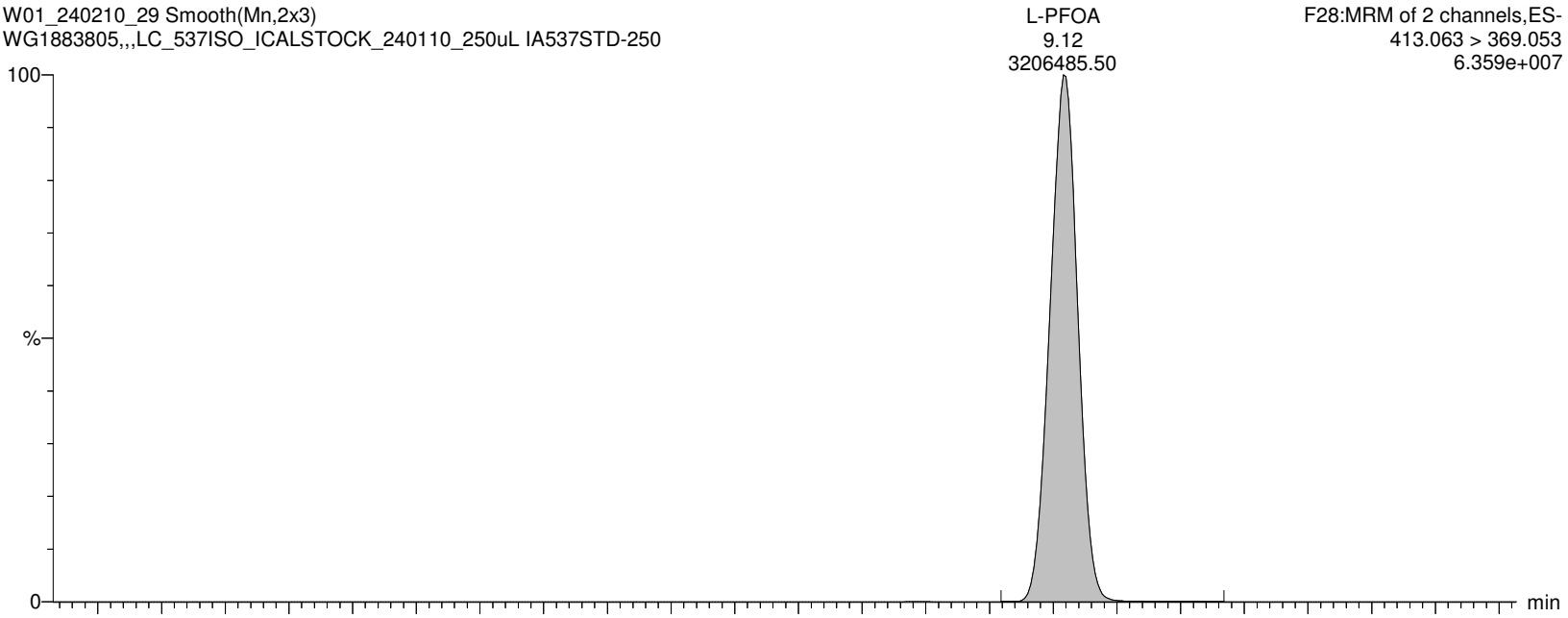

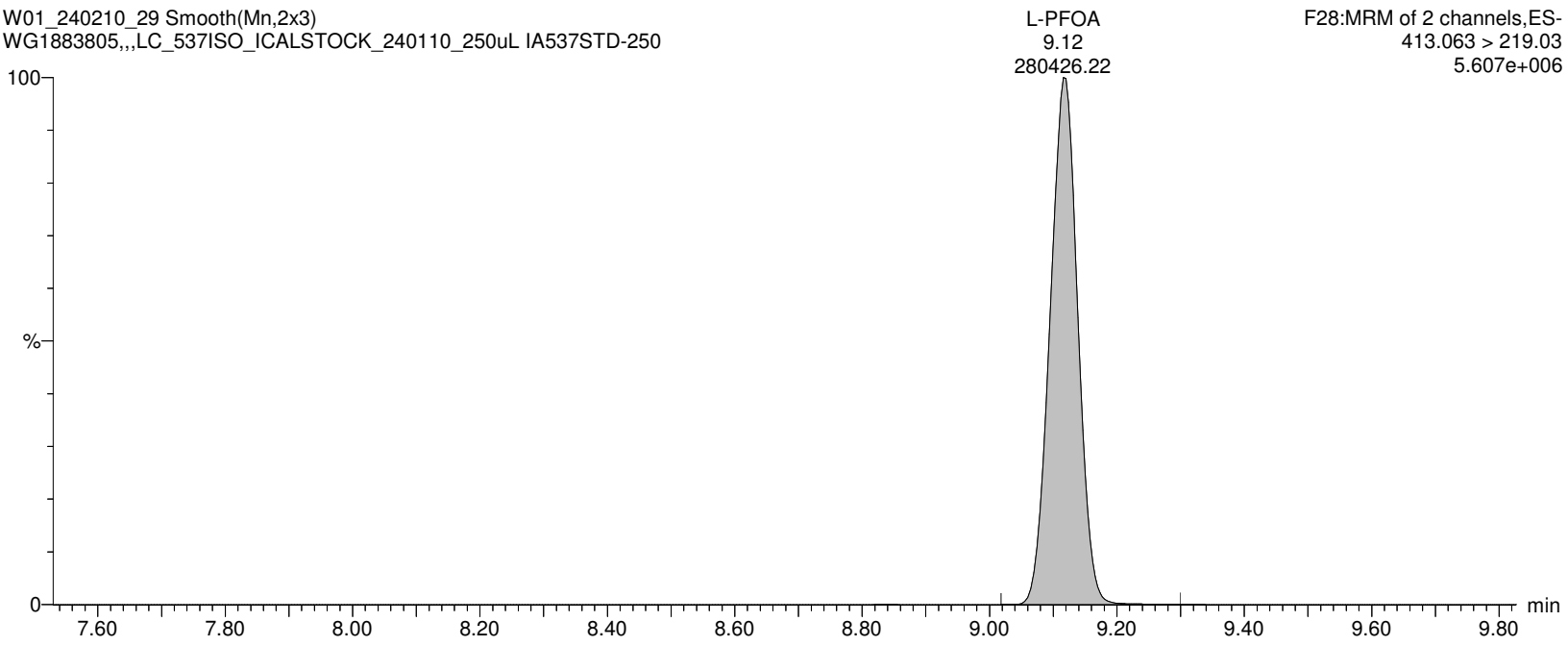

all concentration units in (ng/mL)

Alpha Analytical Inc.
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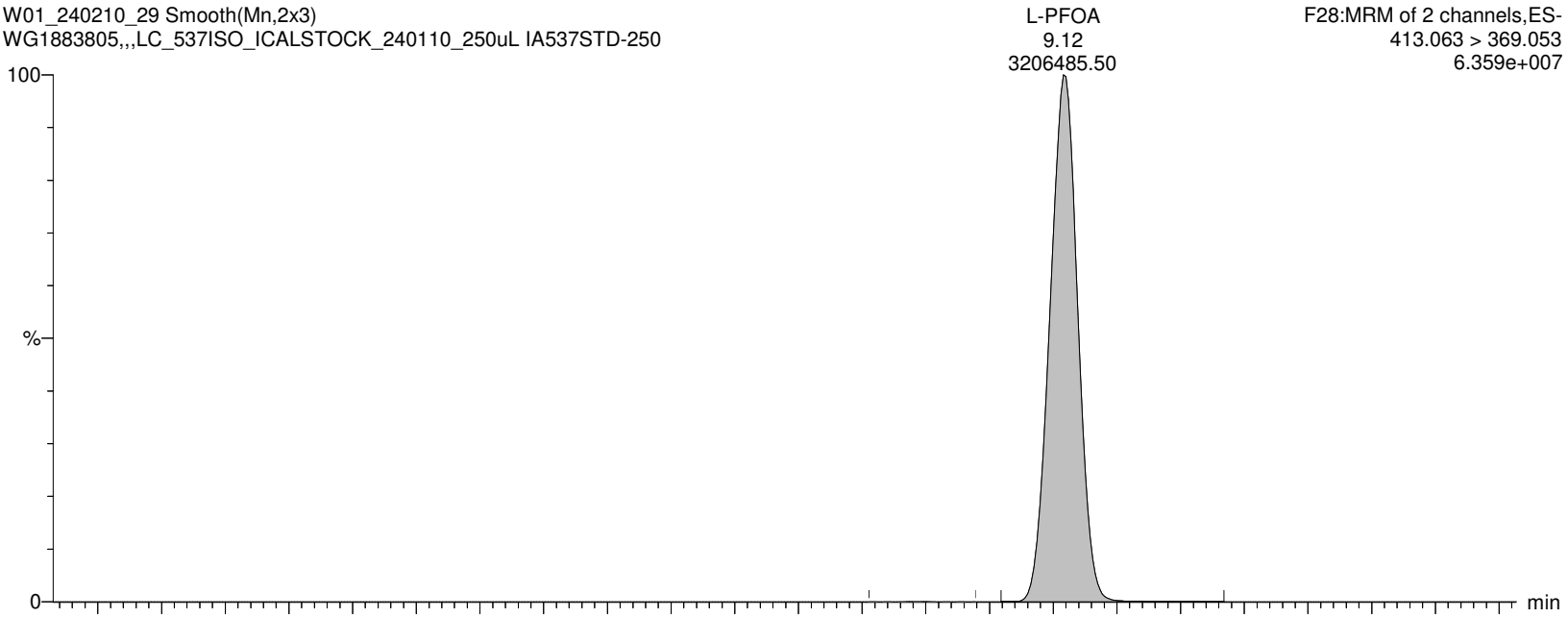

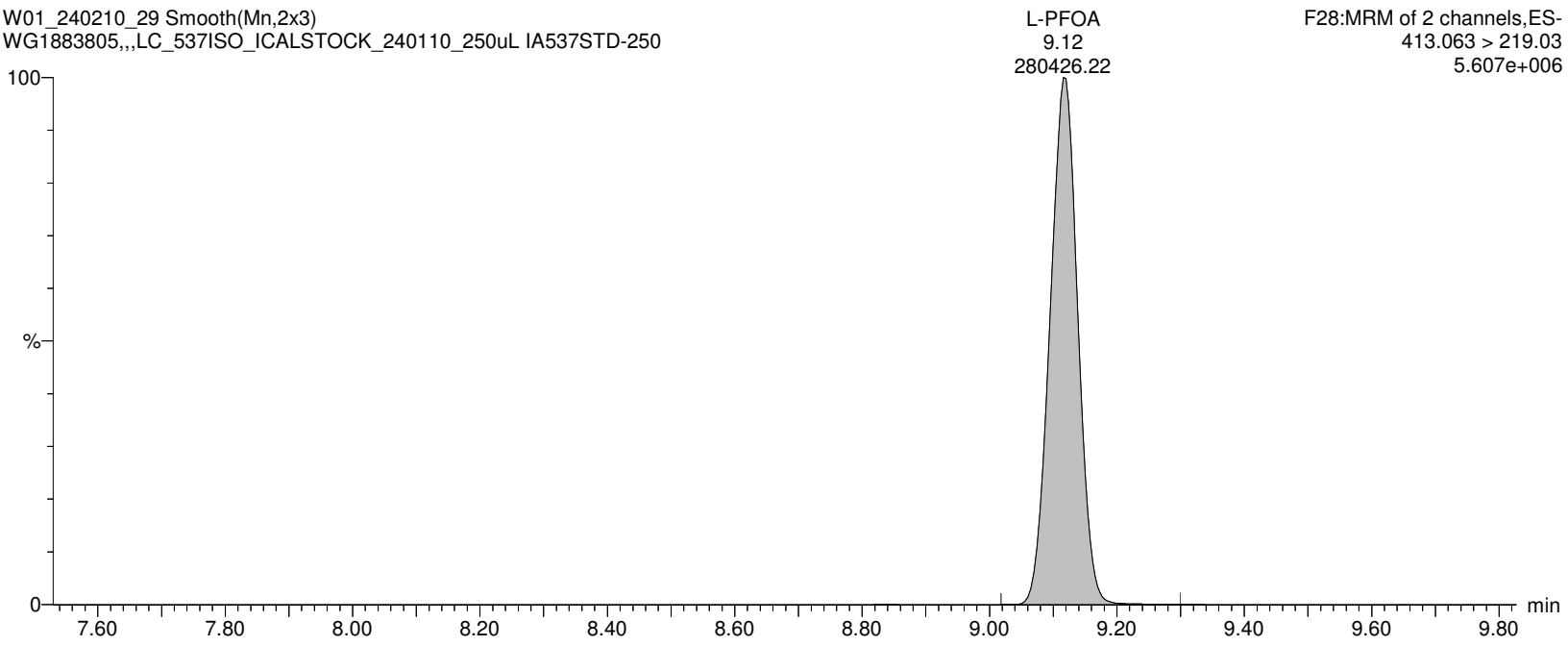

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:C,1
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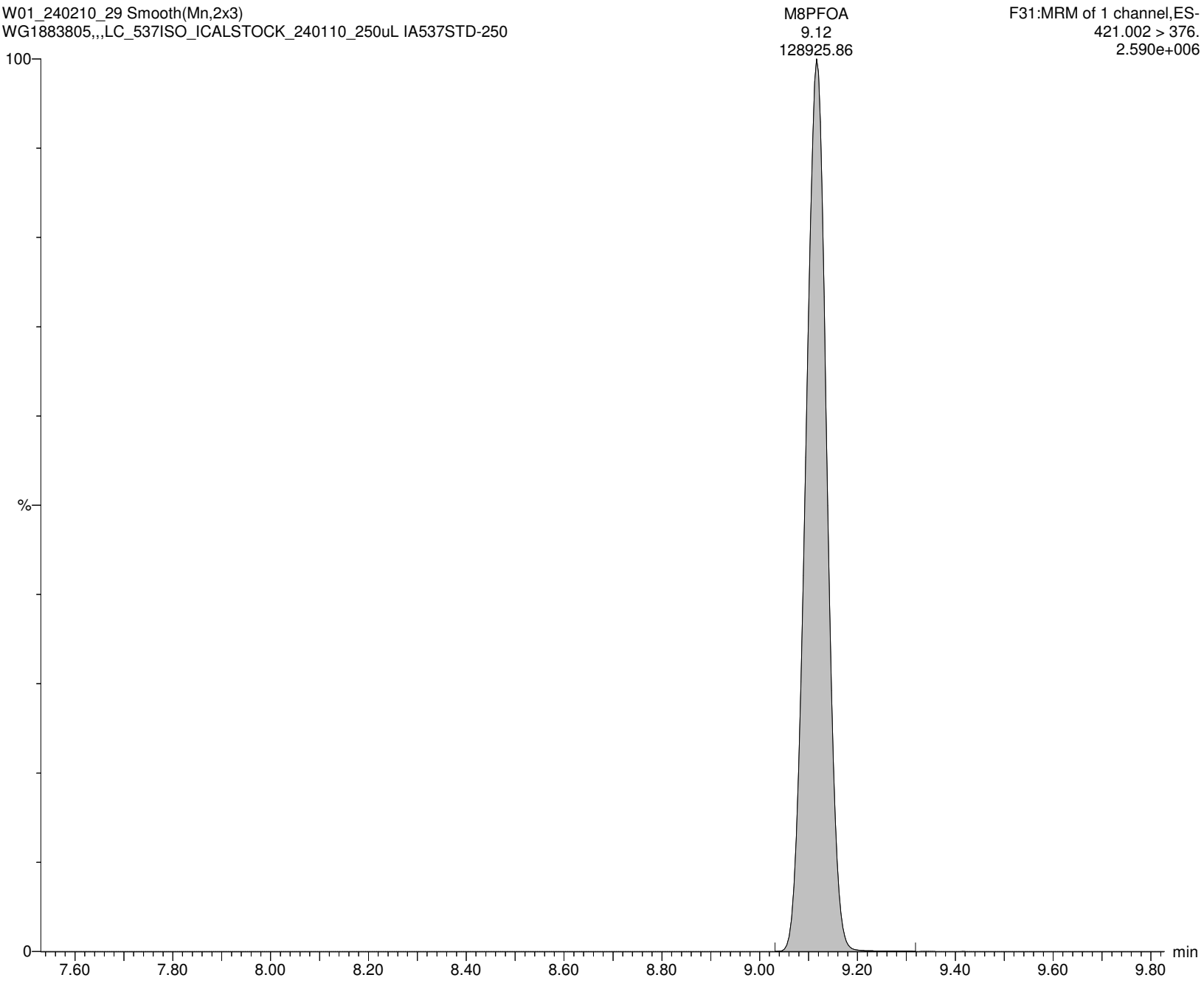

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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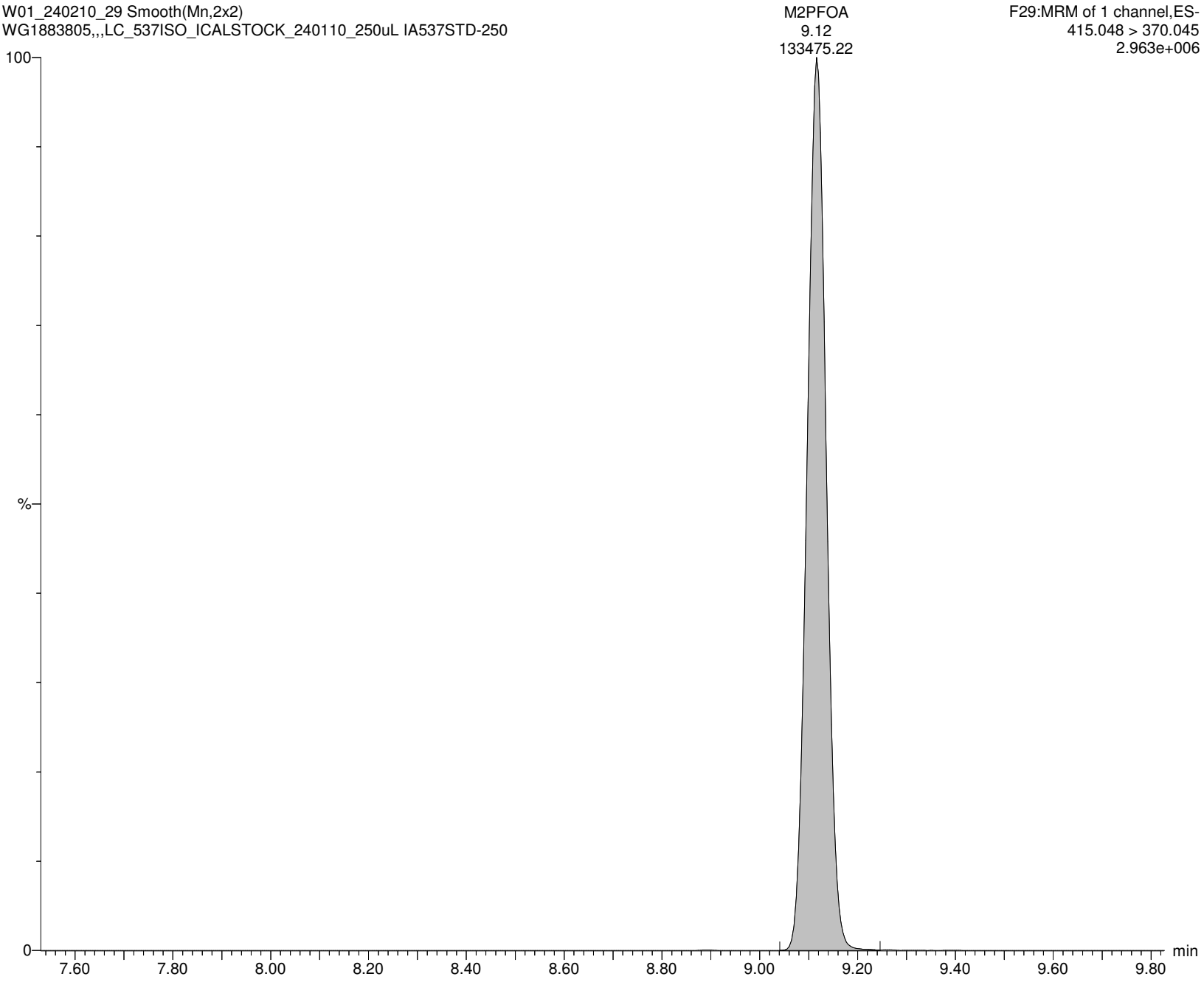

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
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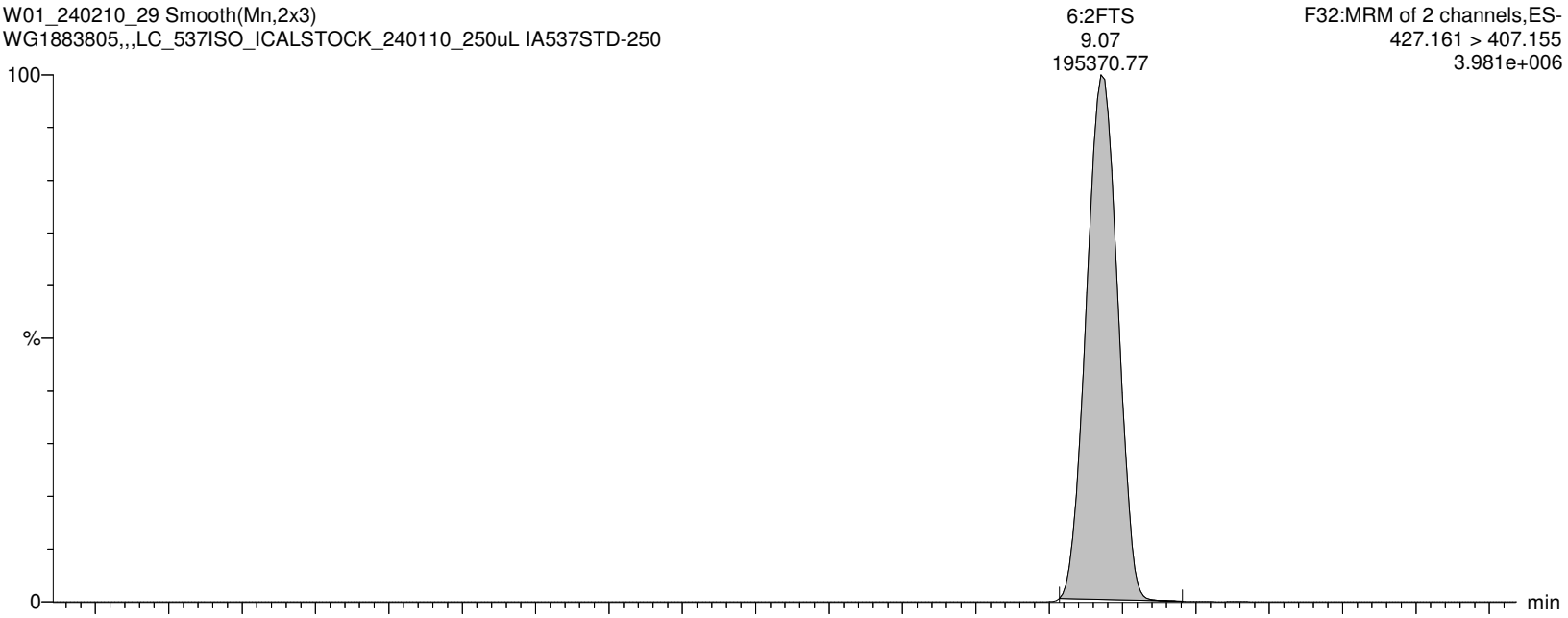

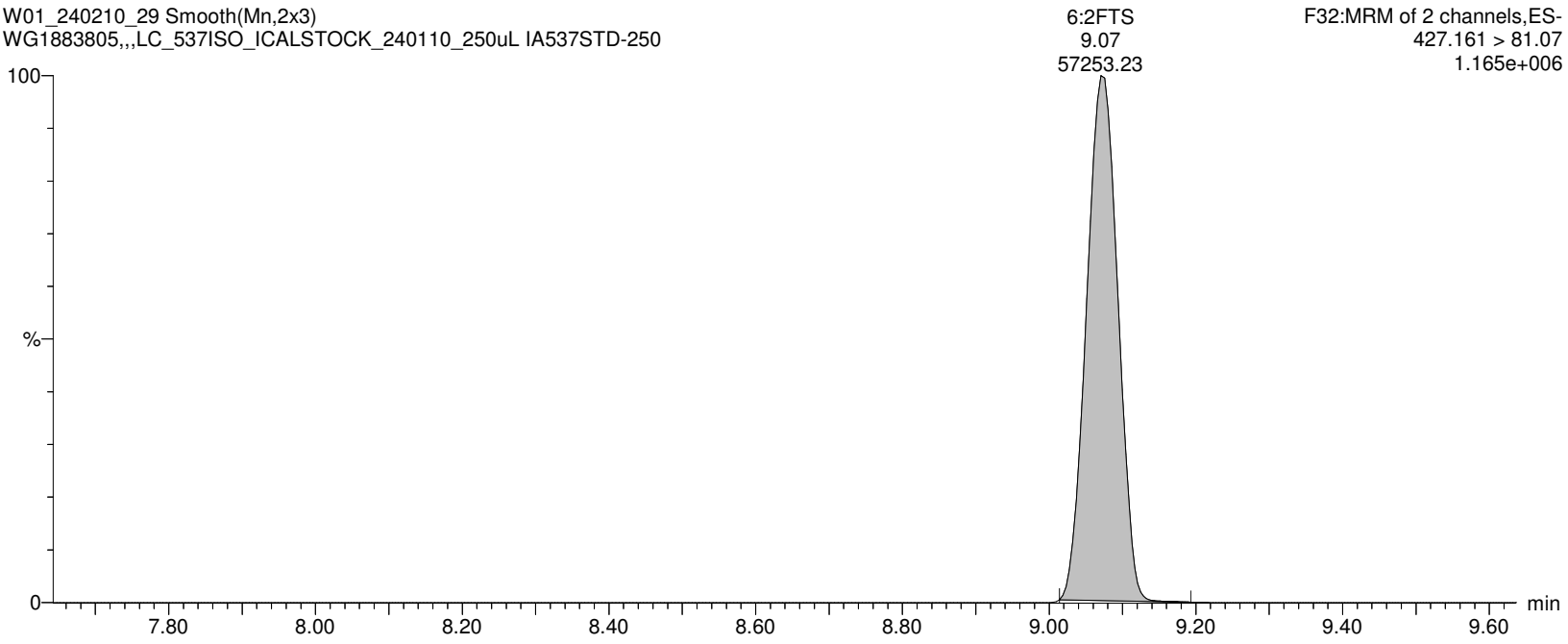

all concentration units in (ng/mL)

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Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
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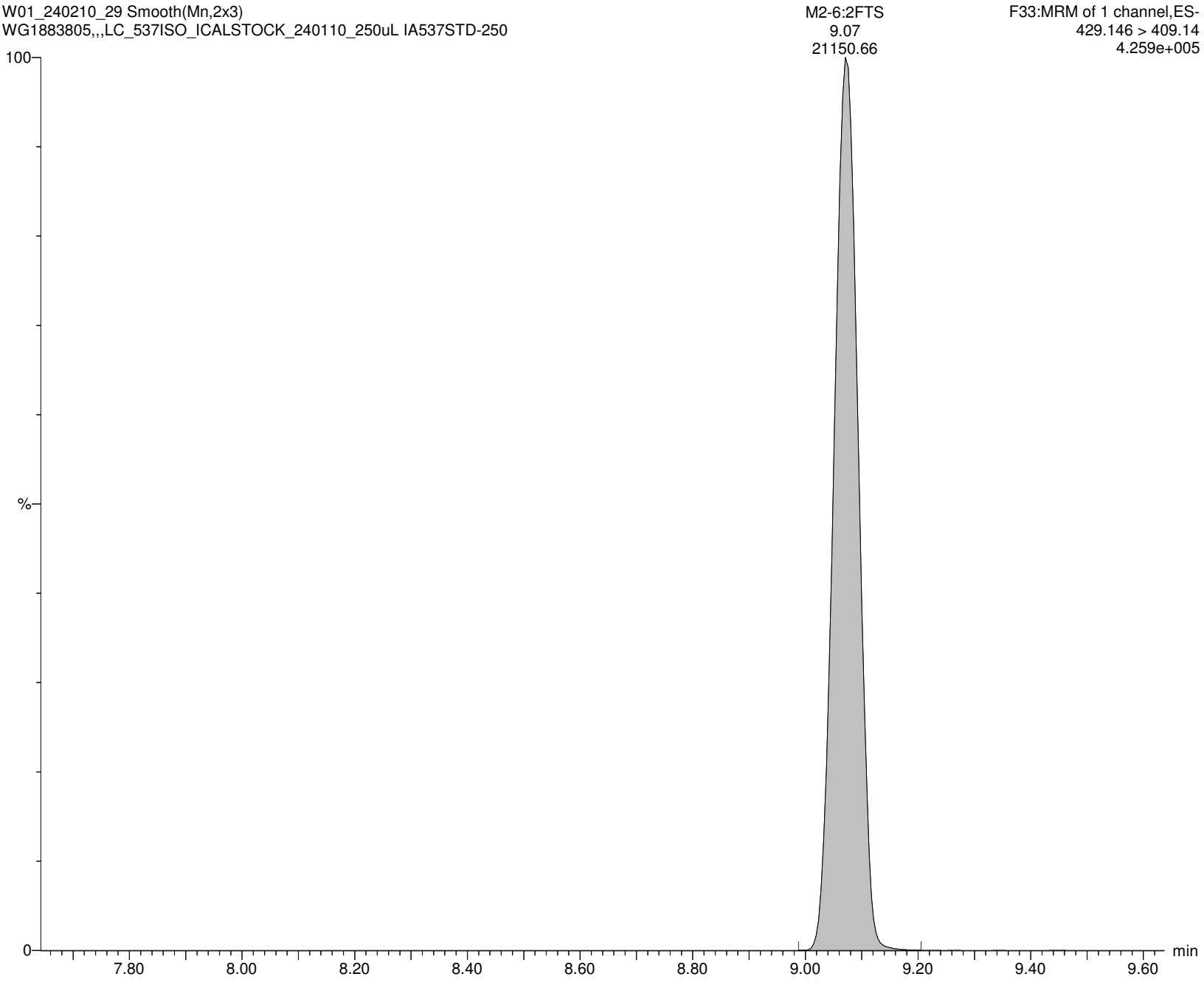

all concentration units in (ng/mL)

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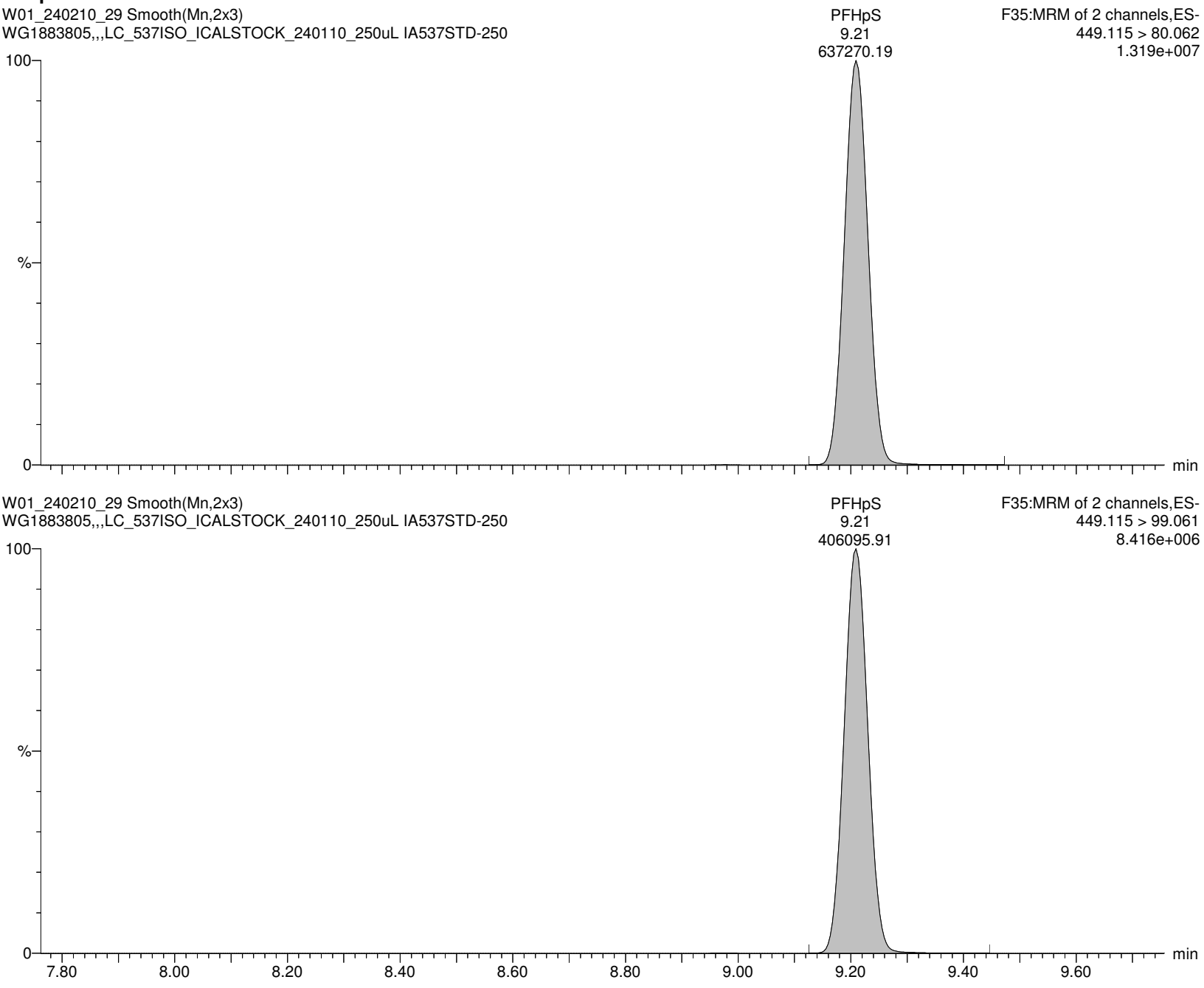
PFHpS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:26 Eastern Standard Time

Name: W01_240210_29
ID: IA537STD-250
Date: 10-Feb-2024
Time: 18:26:00
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User: LCMS01:SG
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
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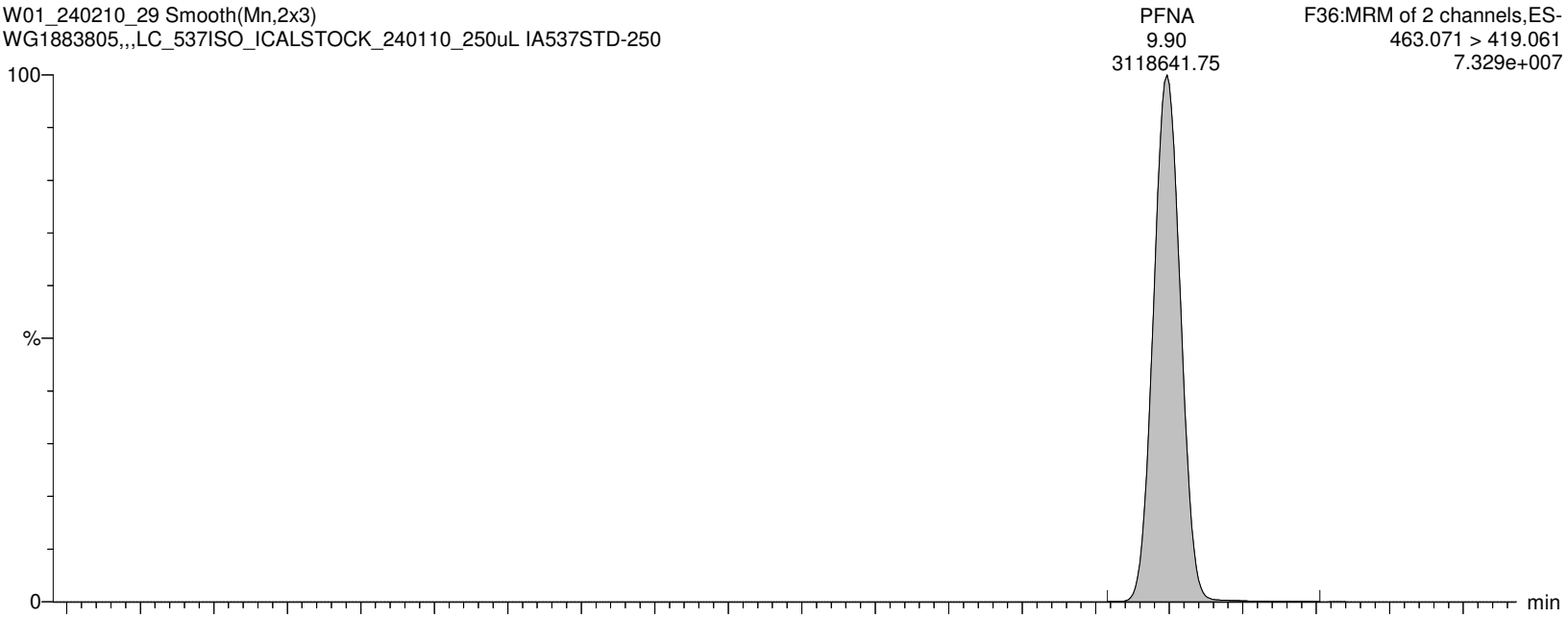

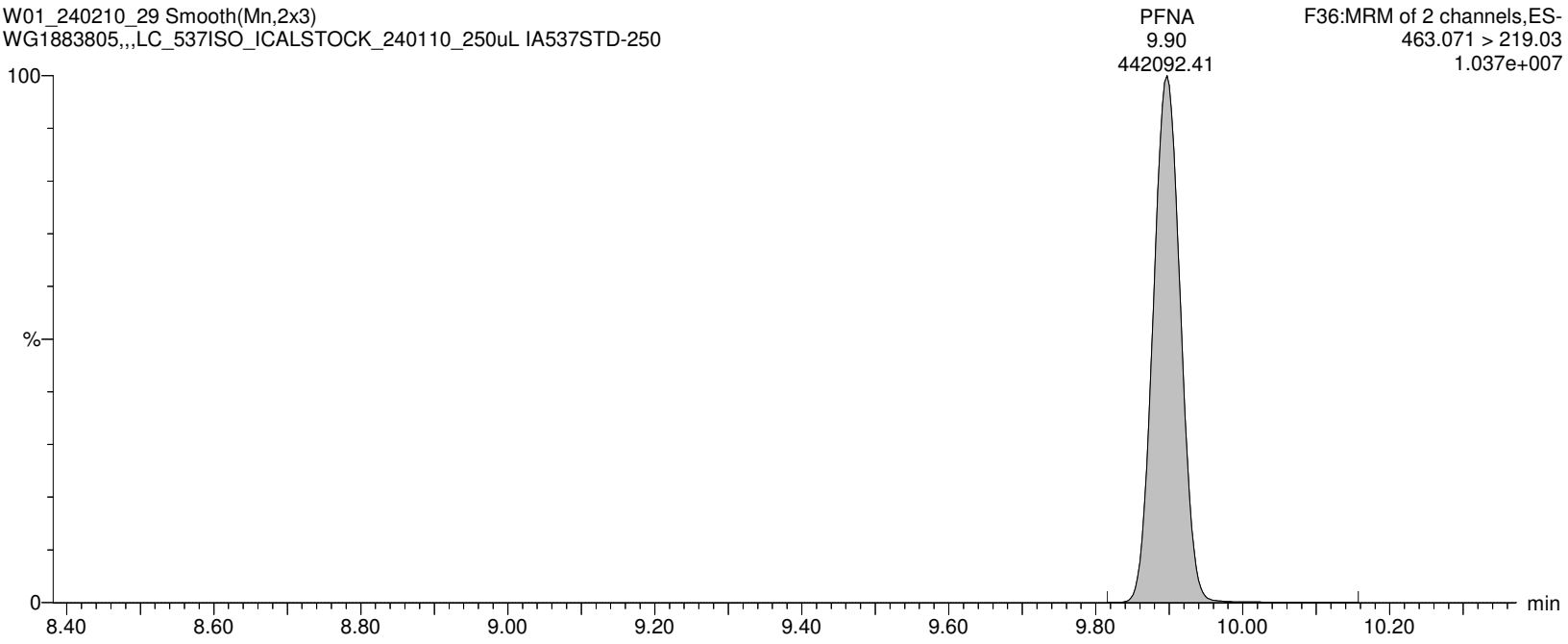

all concentration units in (ng/mL)

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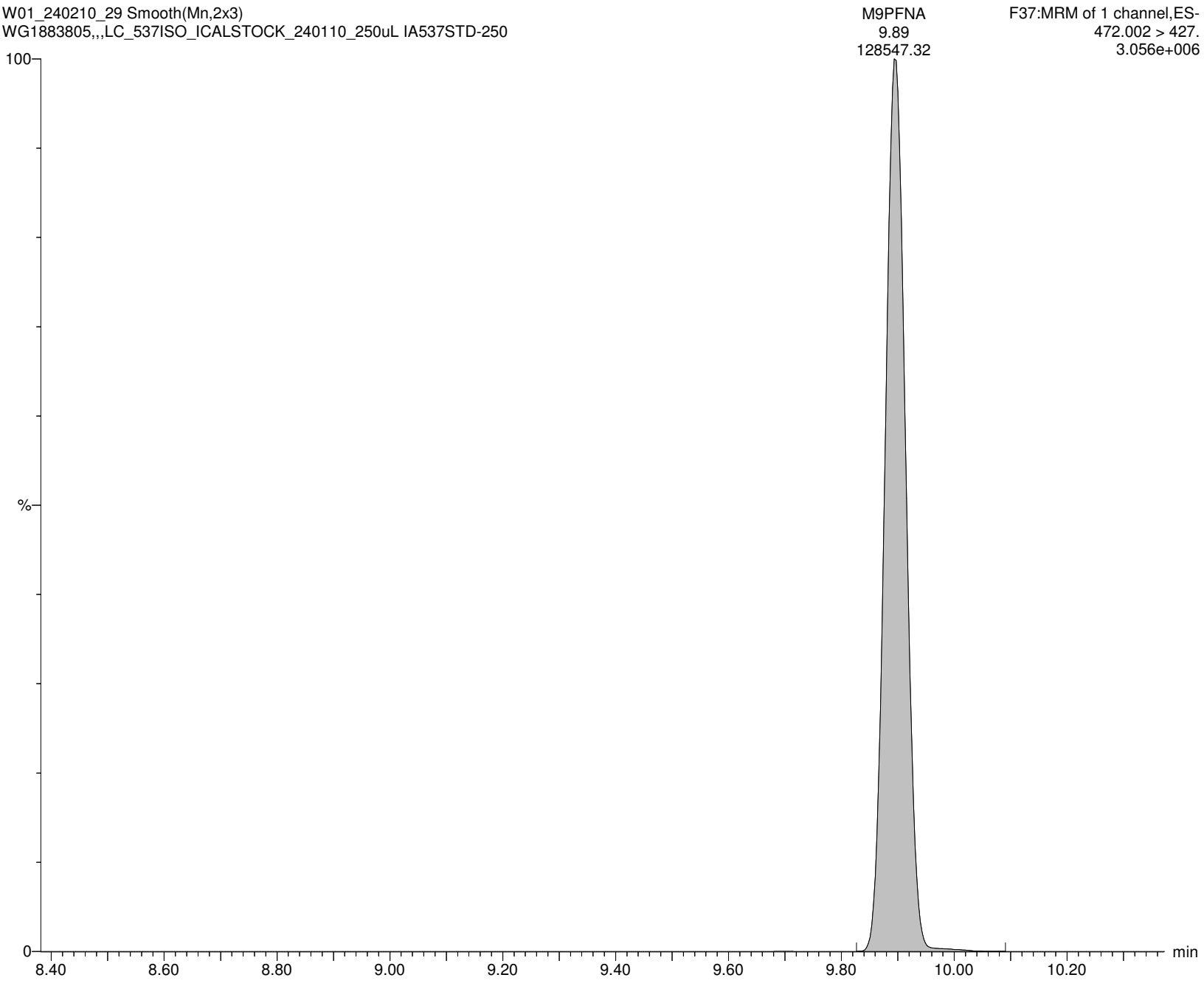

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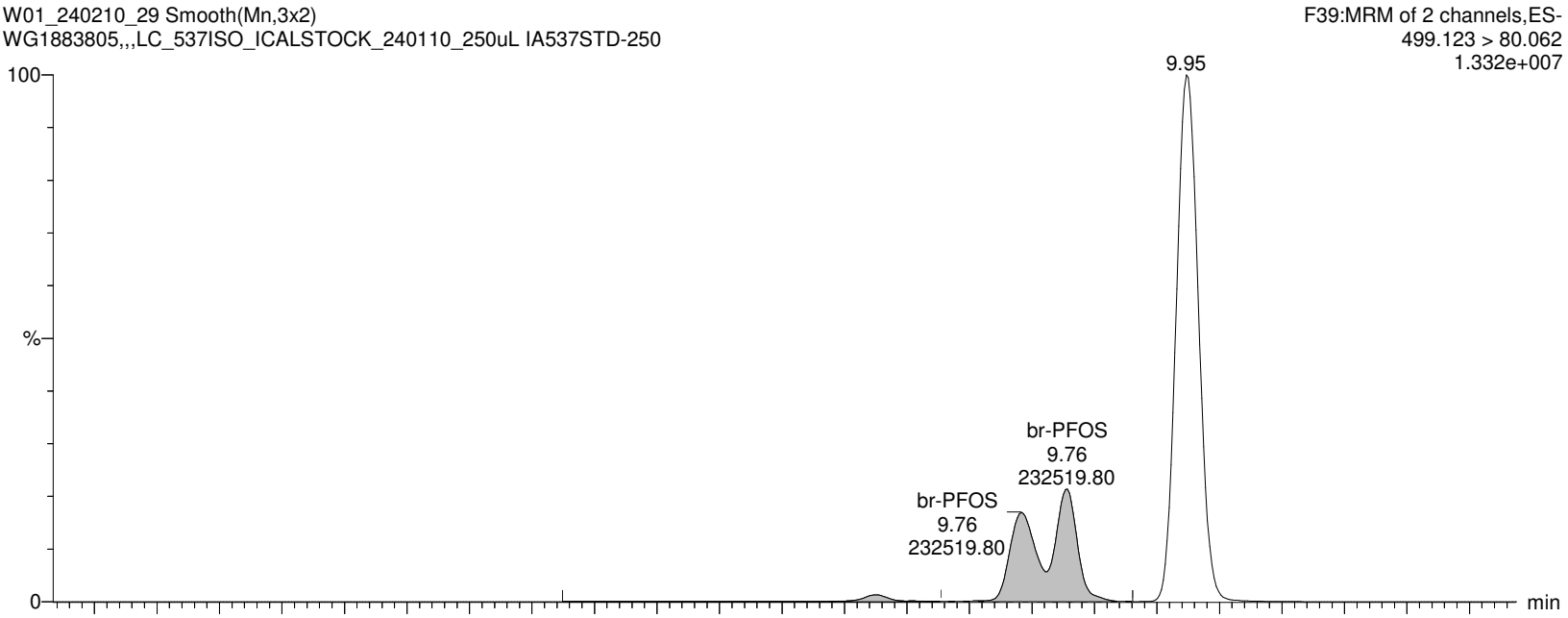

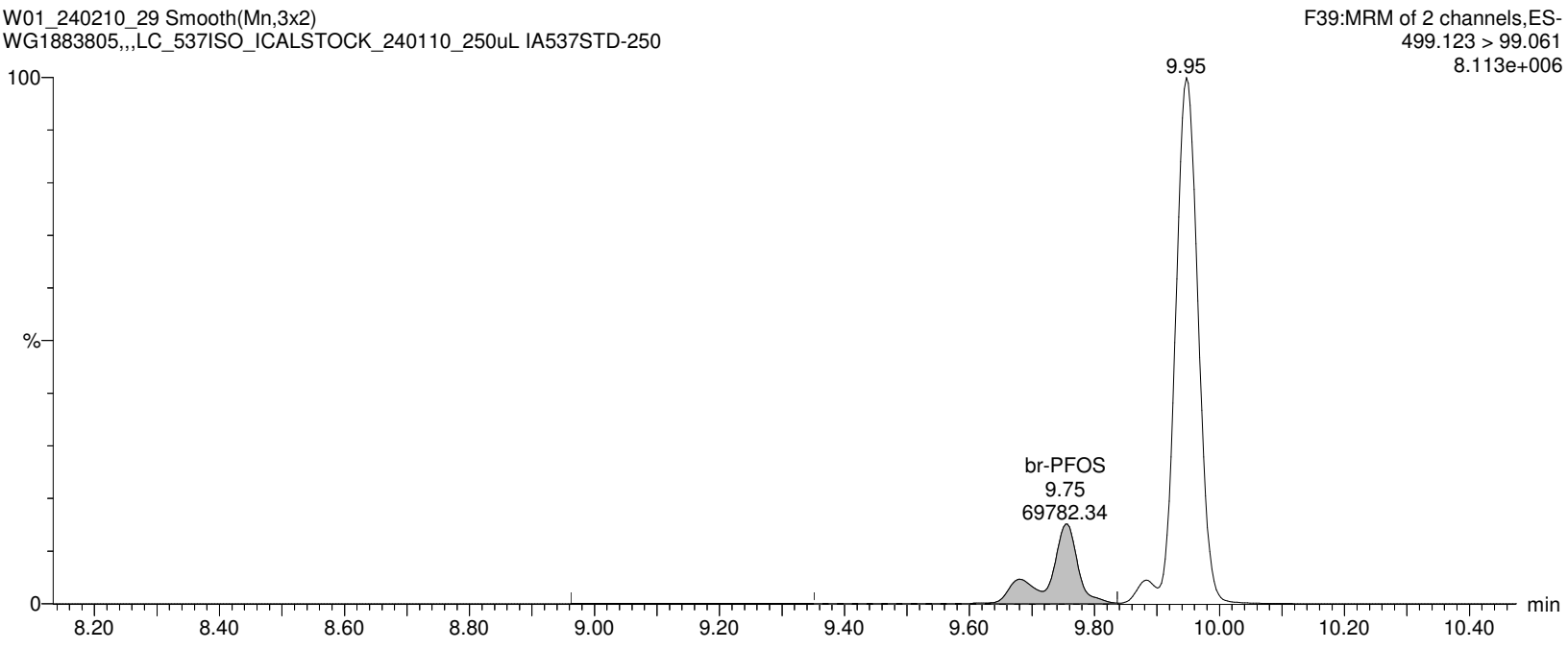

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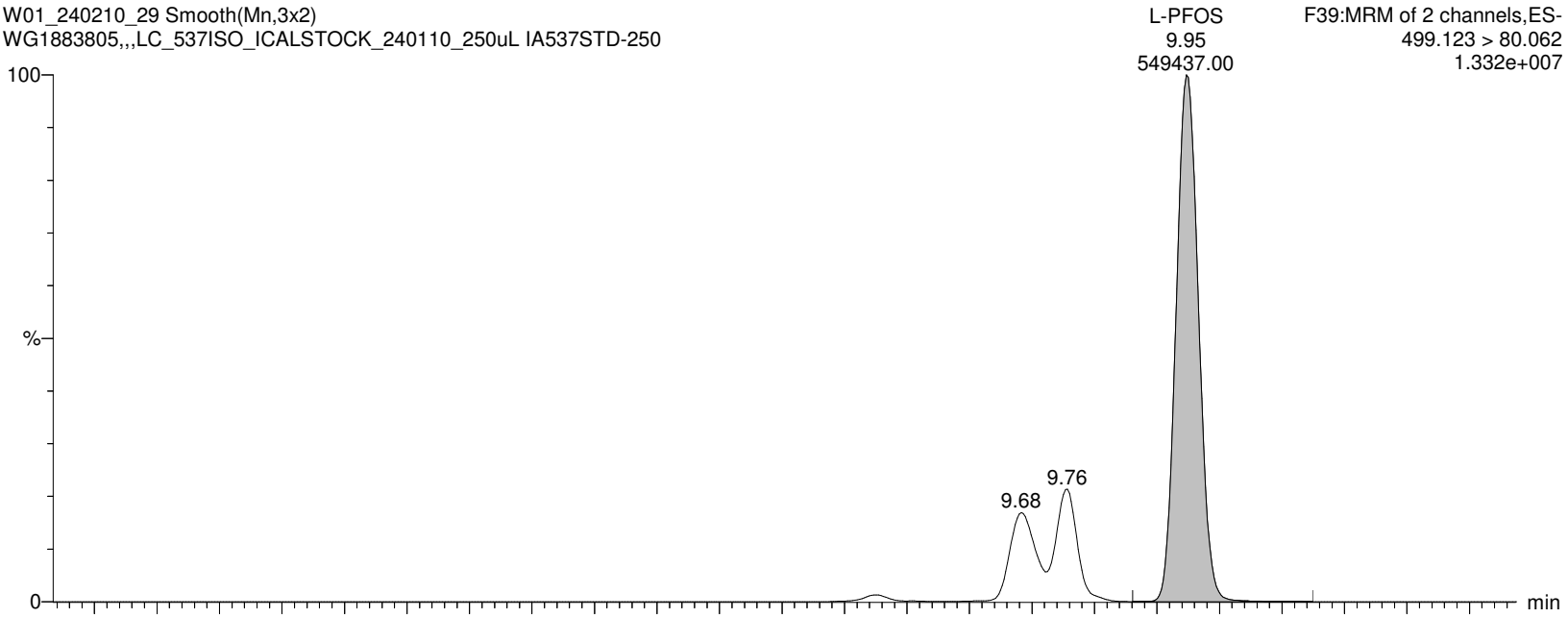

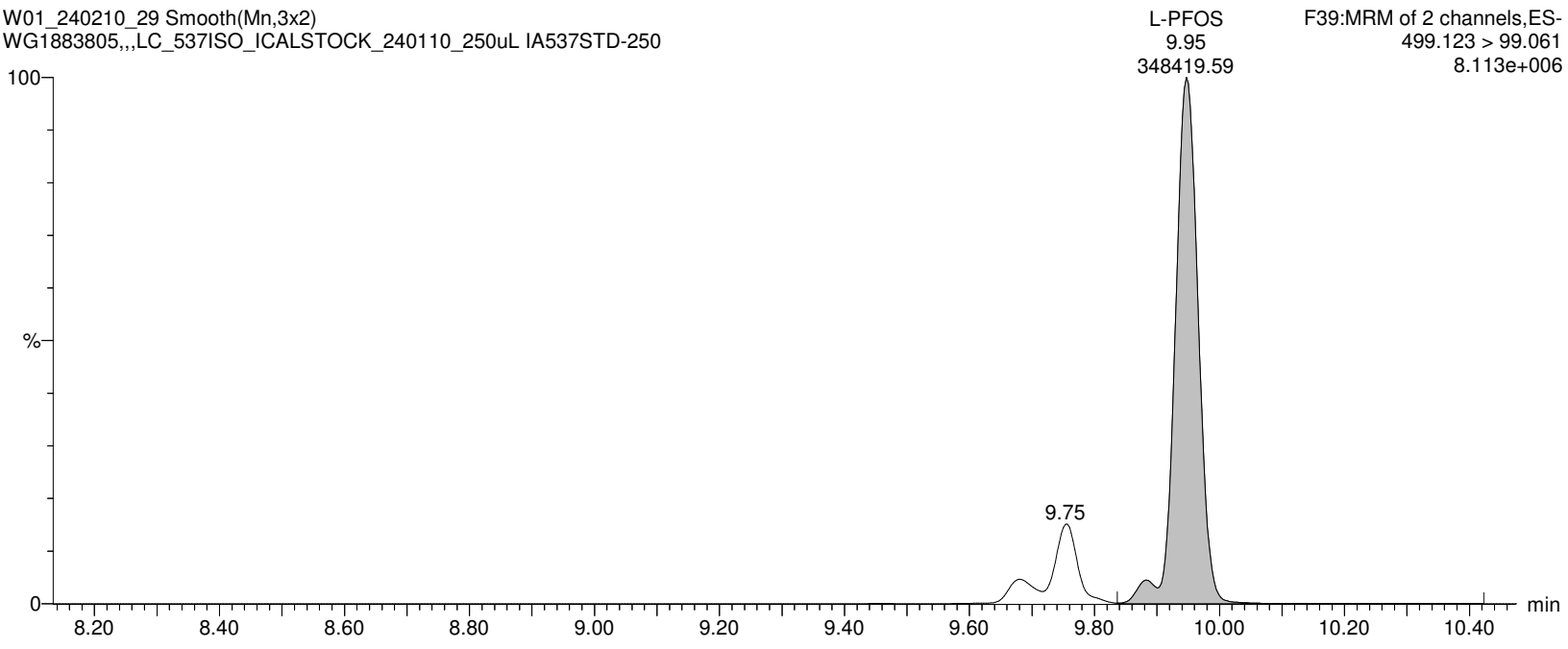

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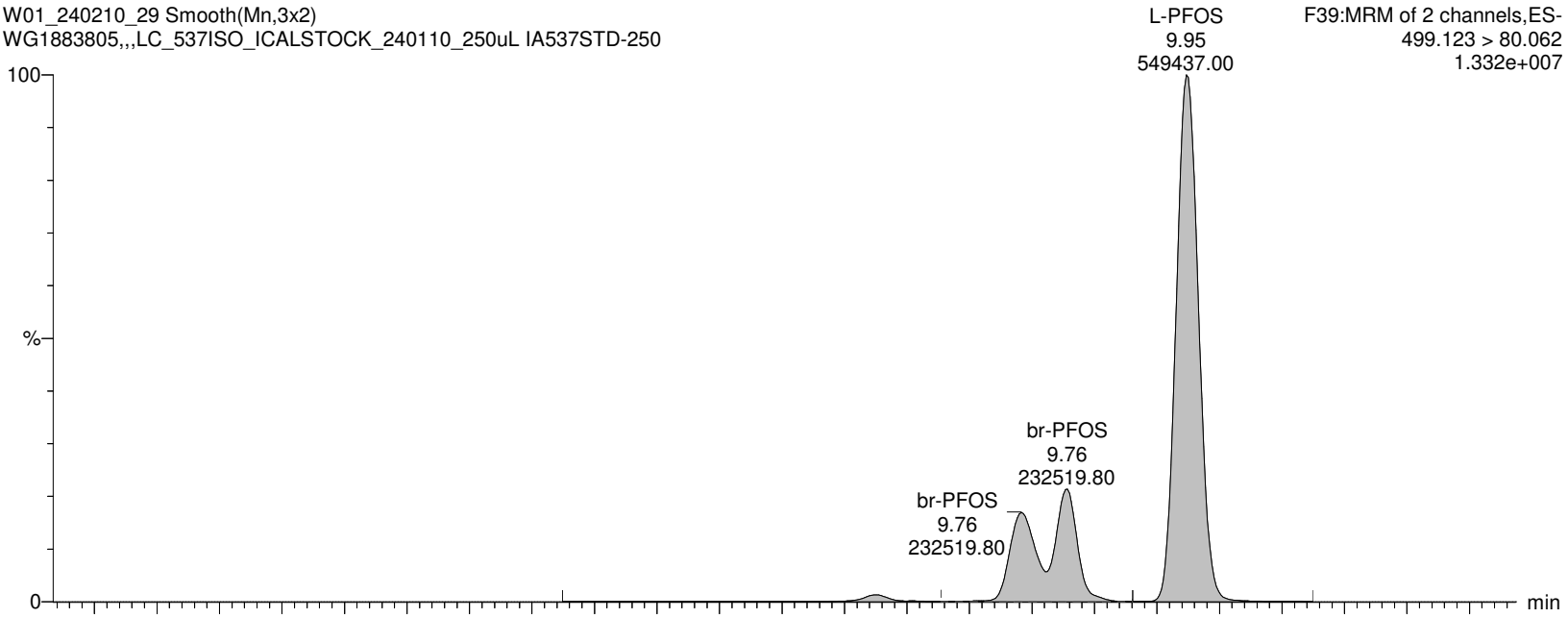

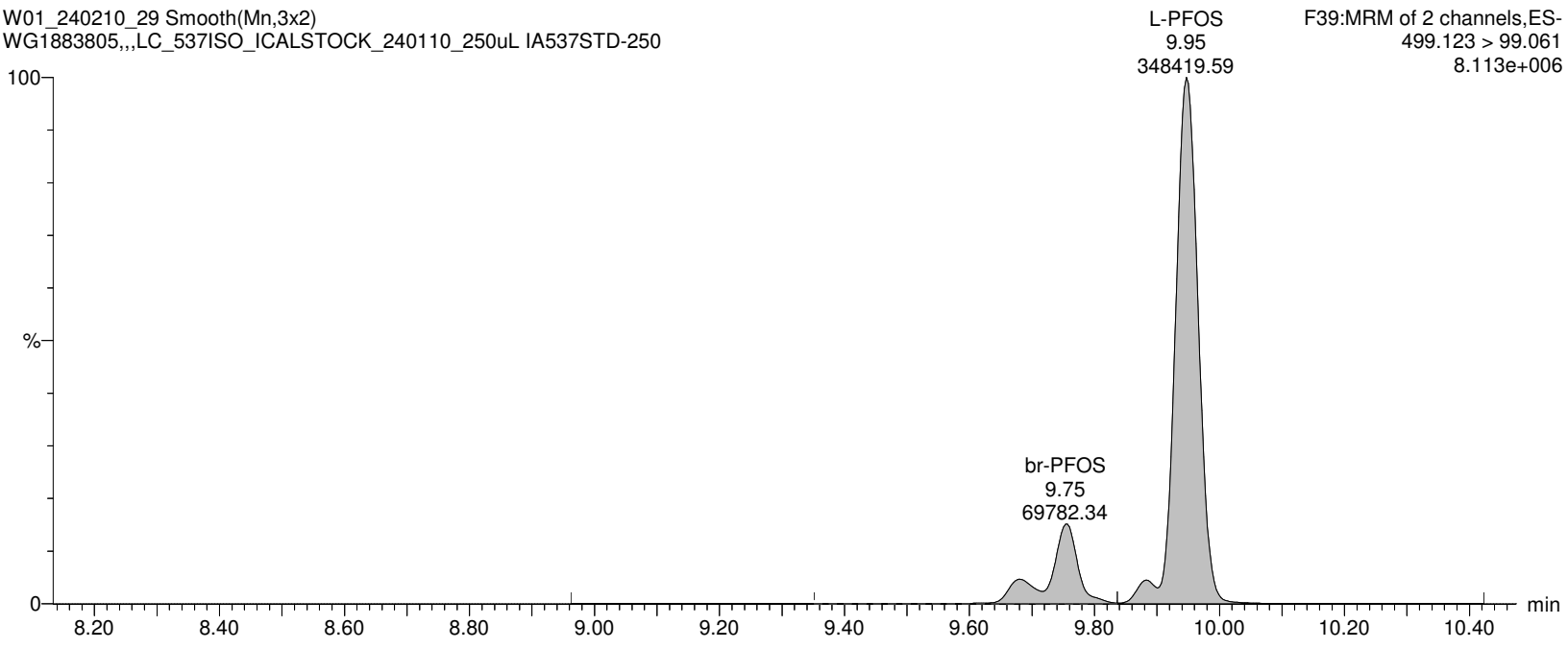

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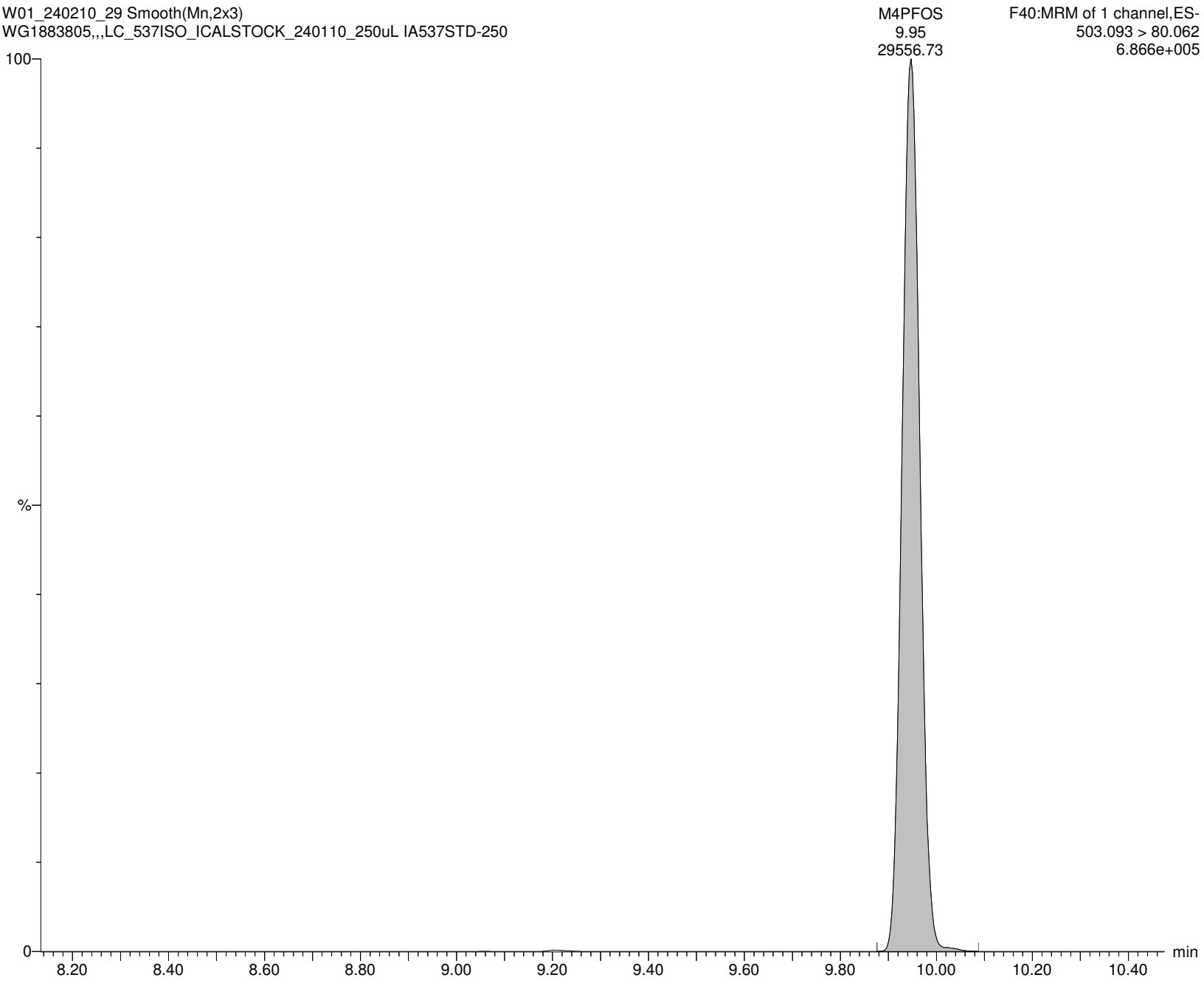

all concentration units in (ng/mL)

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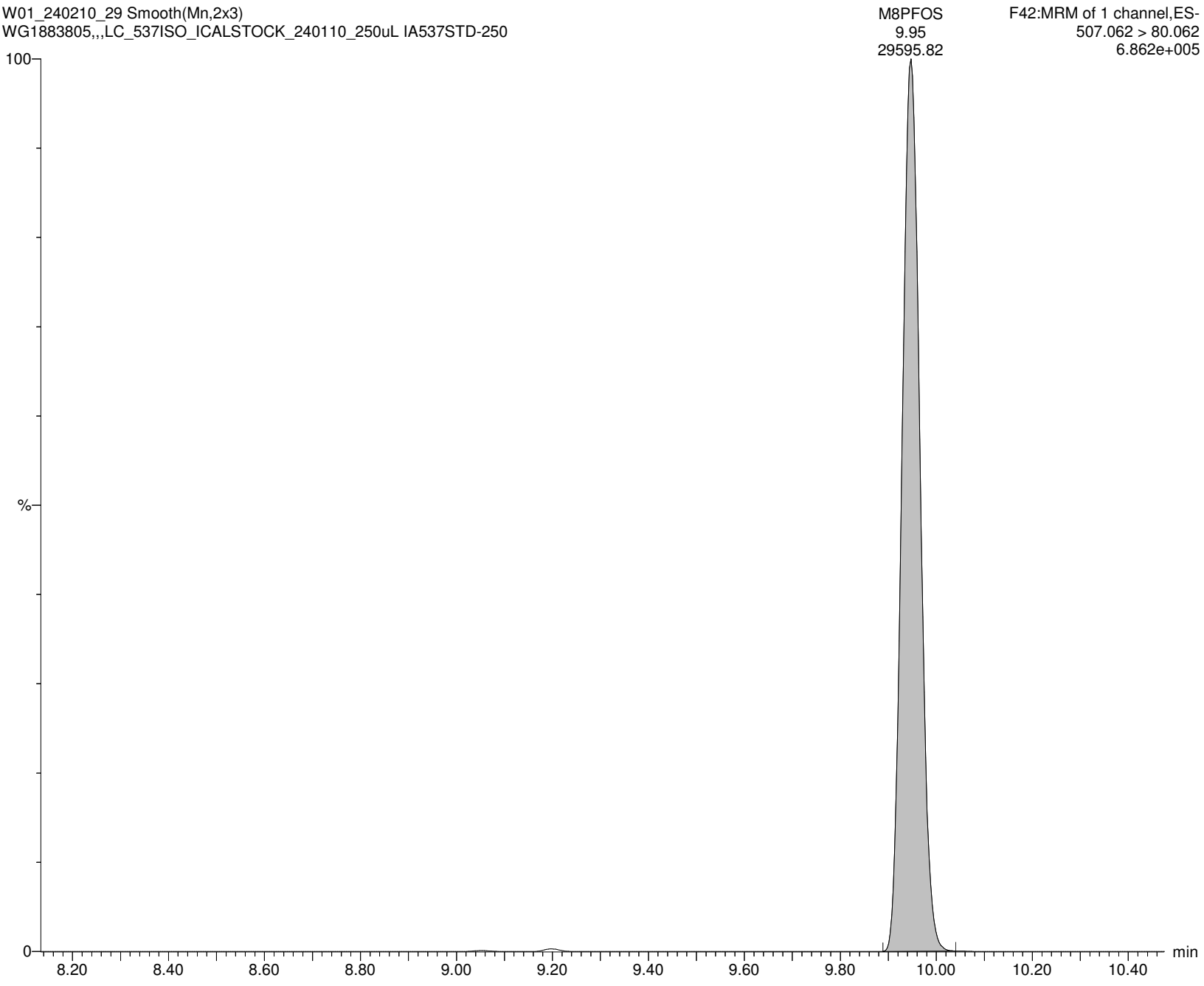

all concentration units in (ng/mL)

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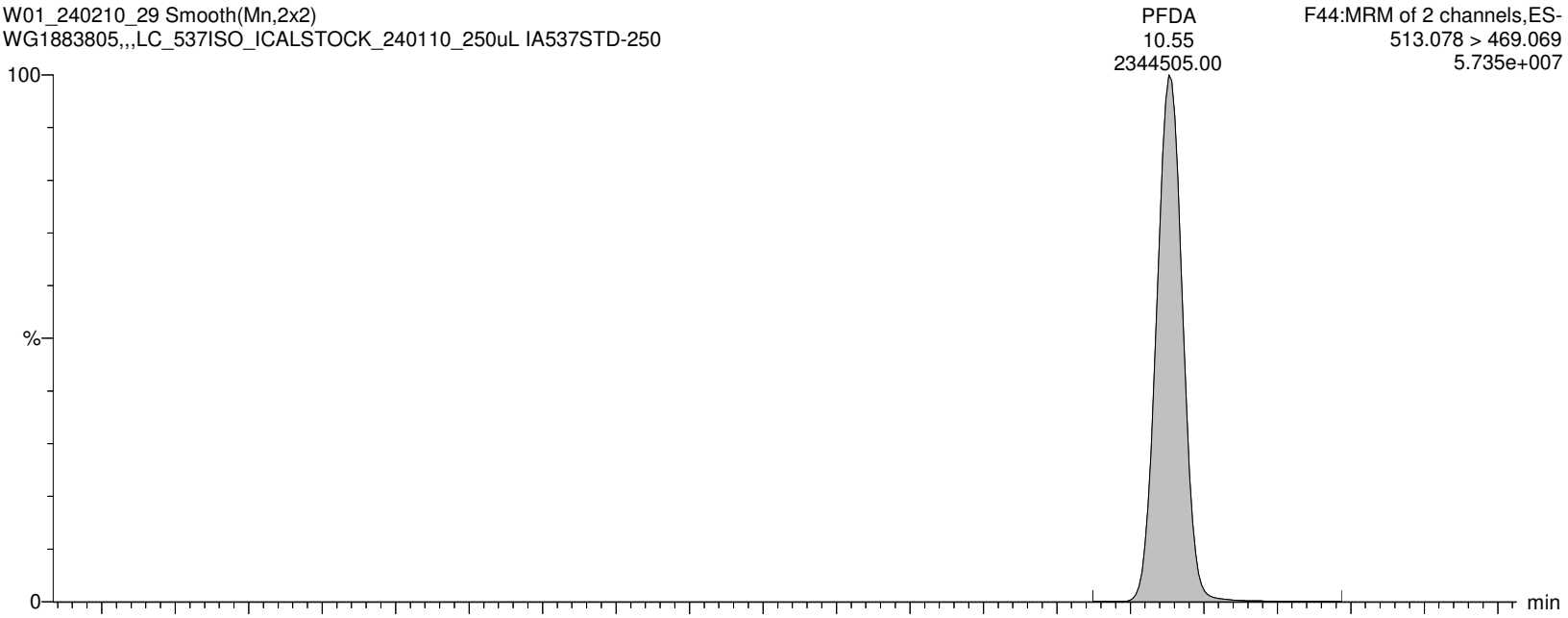

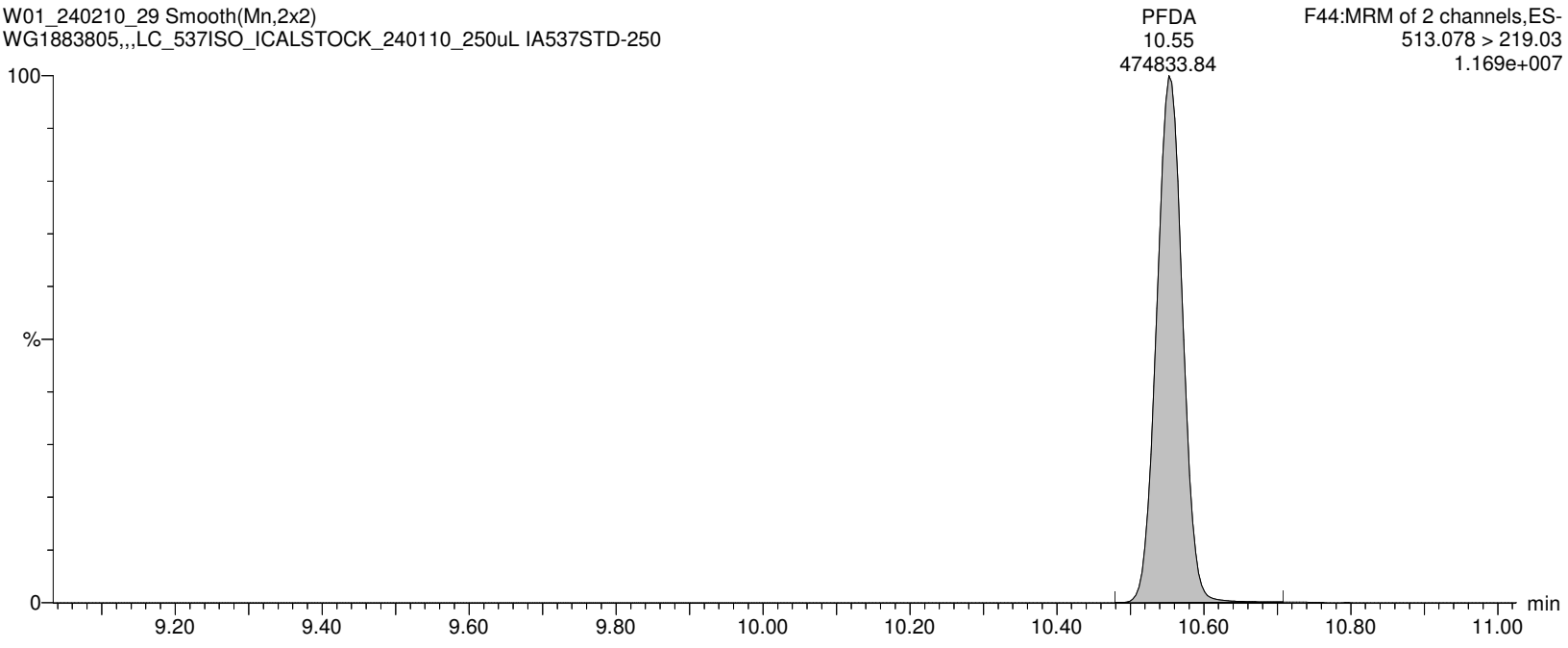

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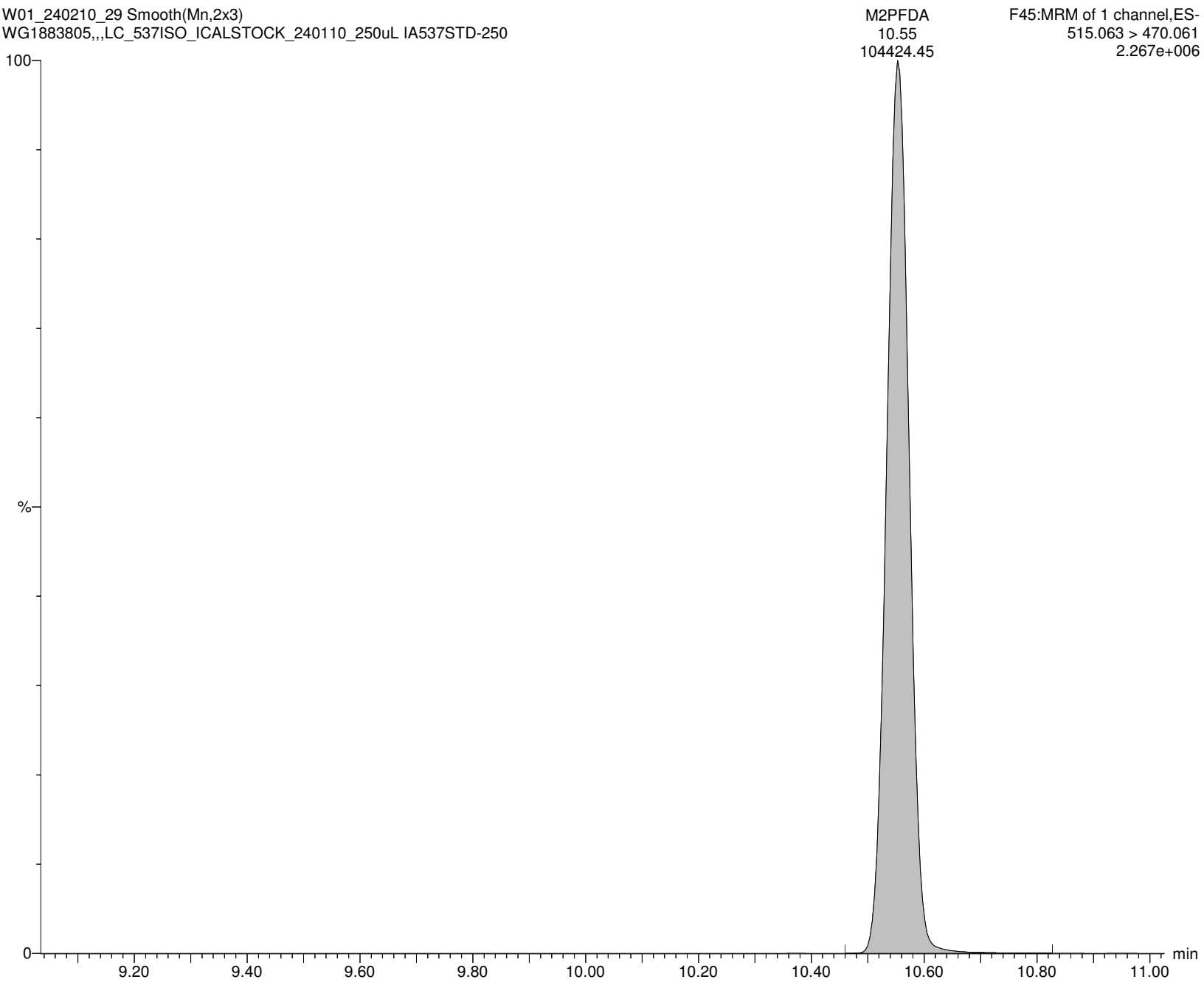

all concentration units in (ng/mL)

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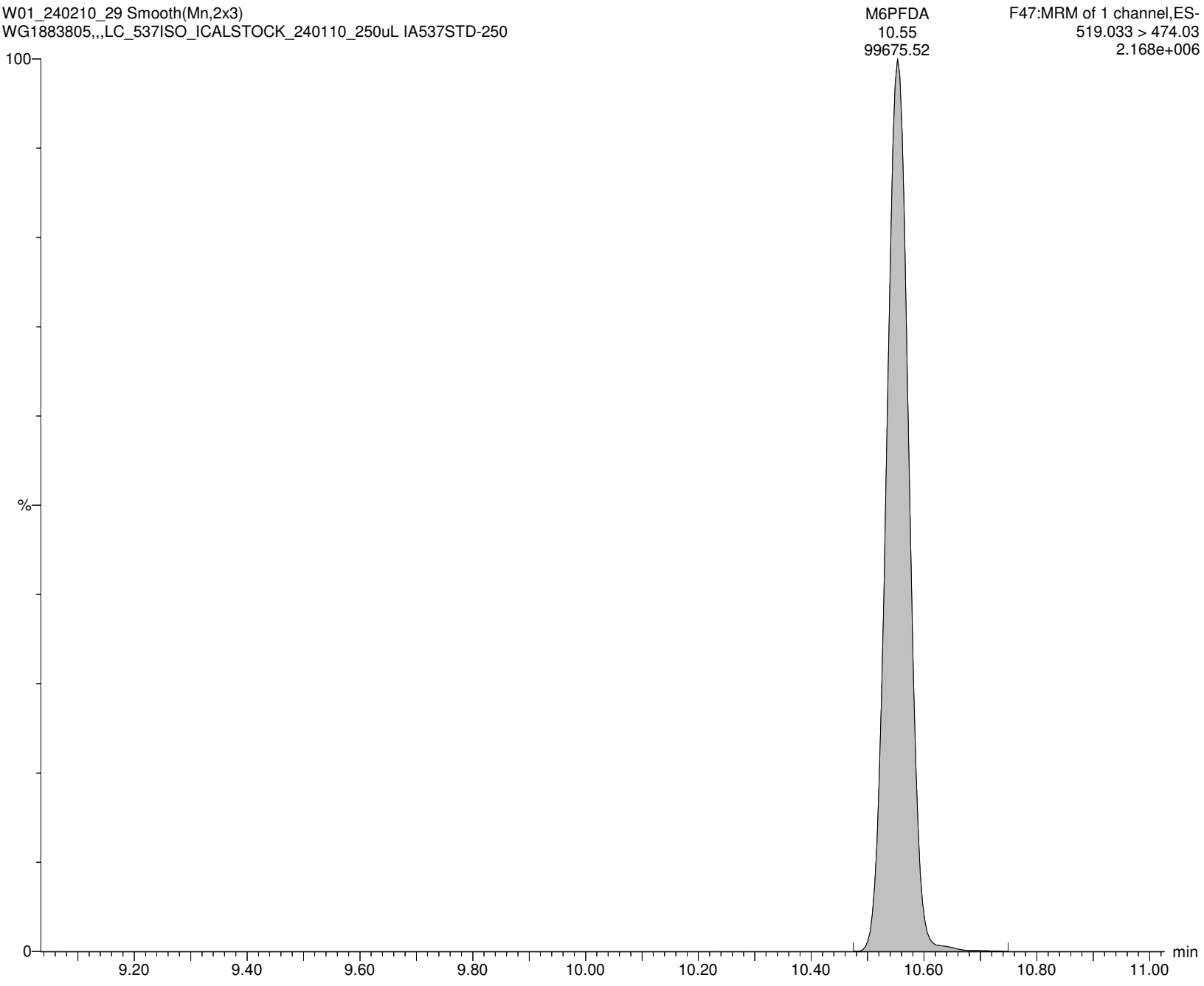

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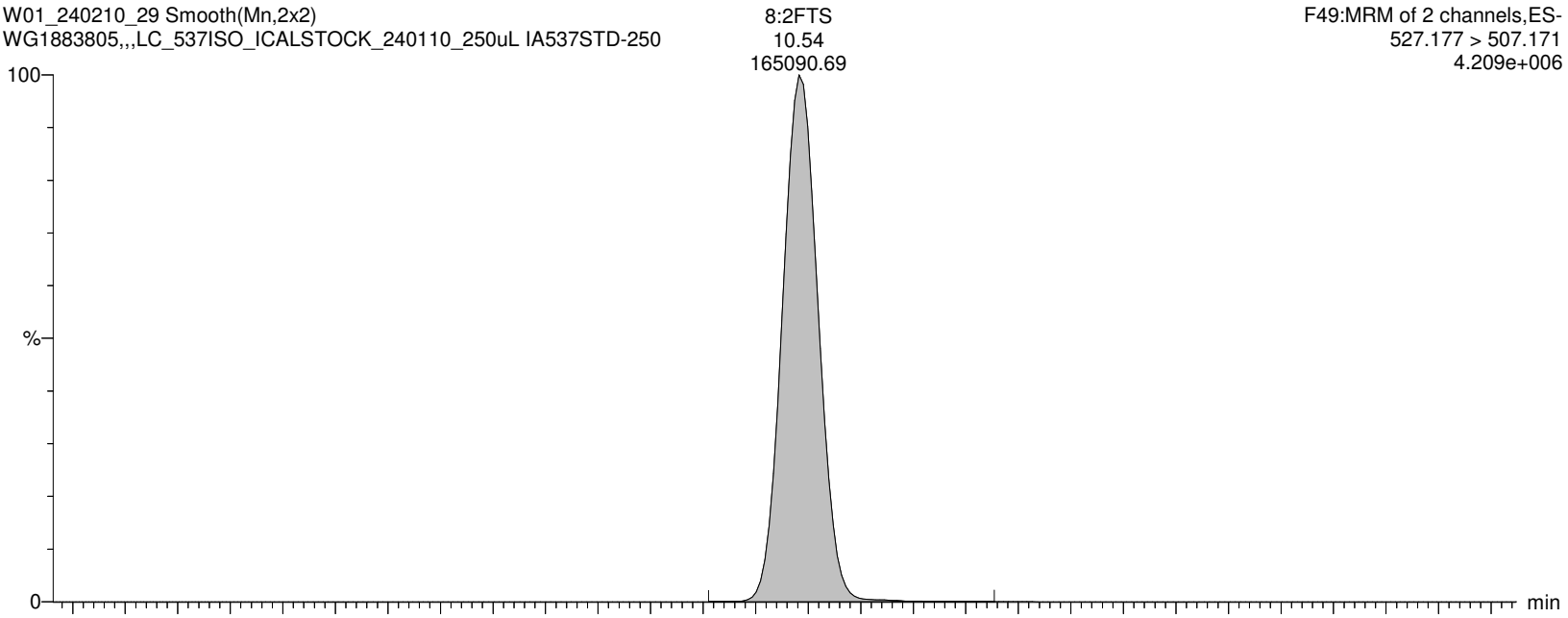

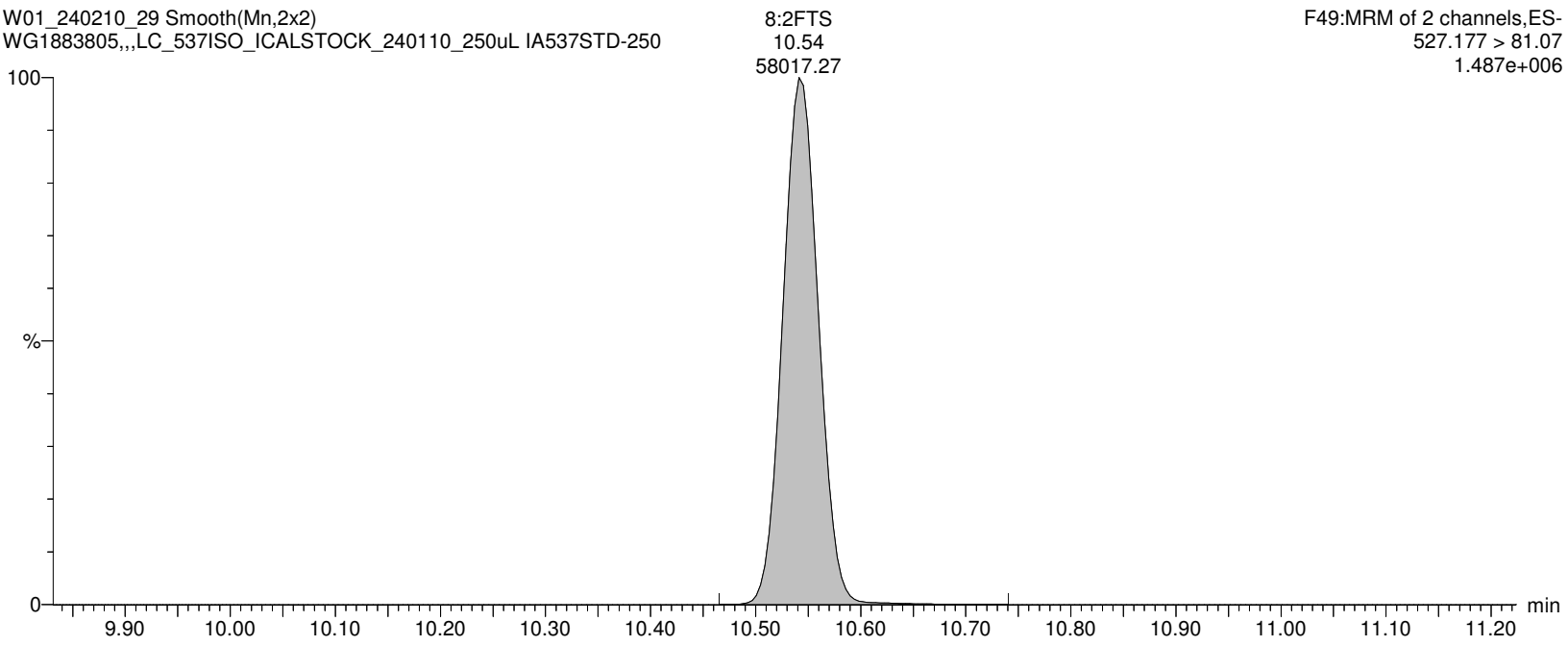

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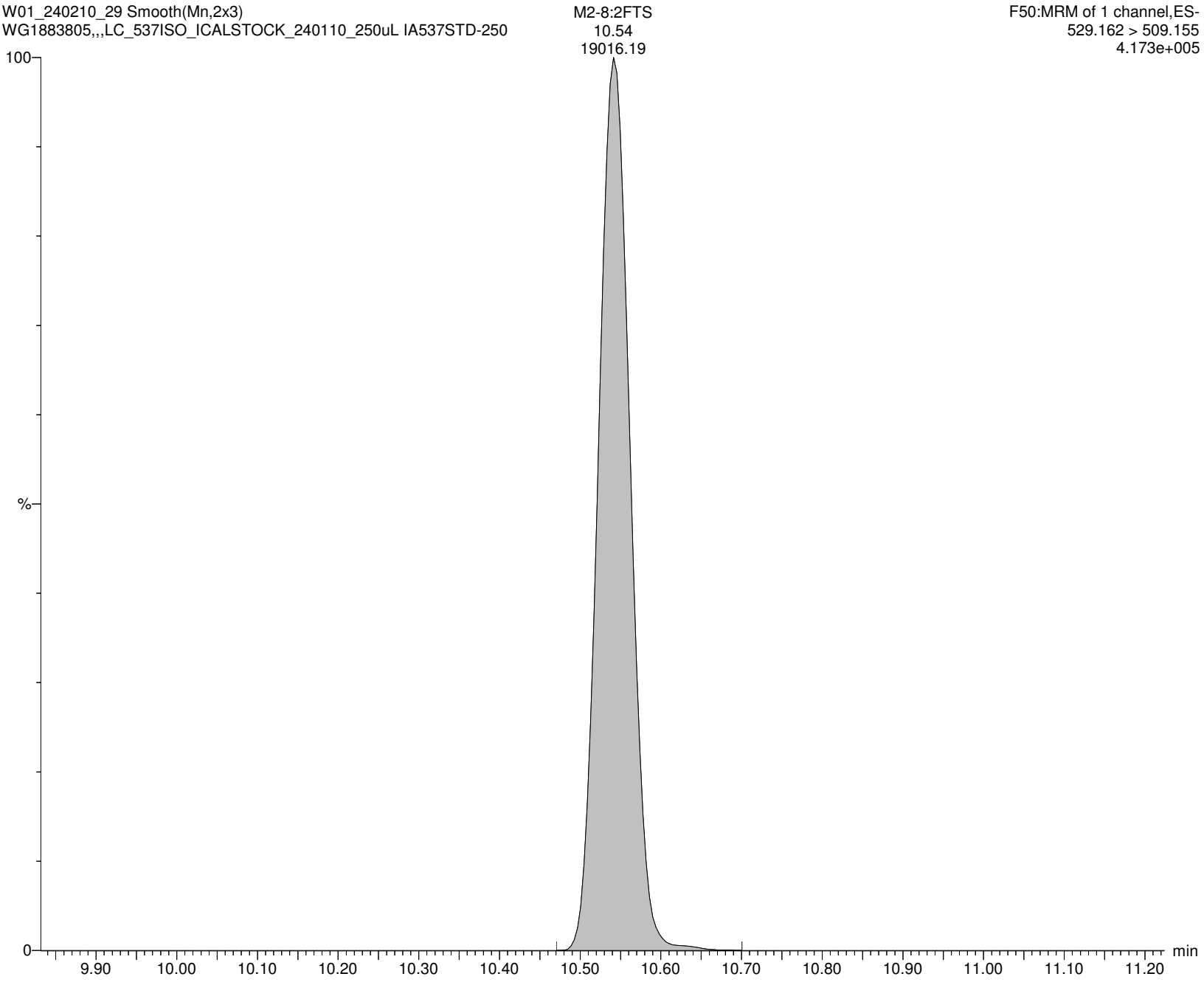

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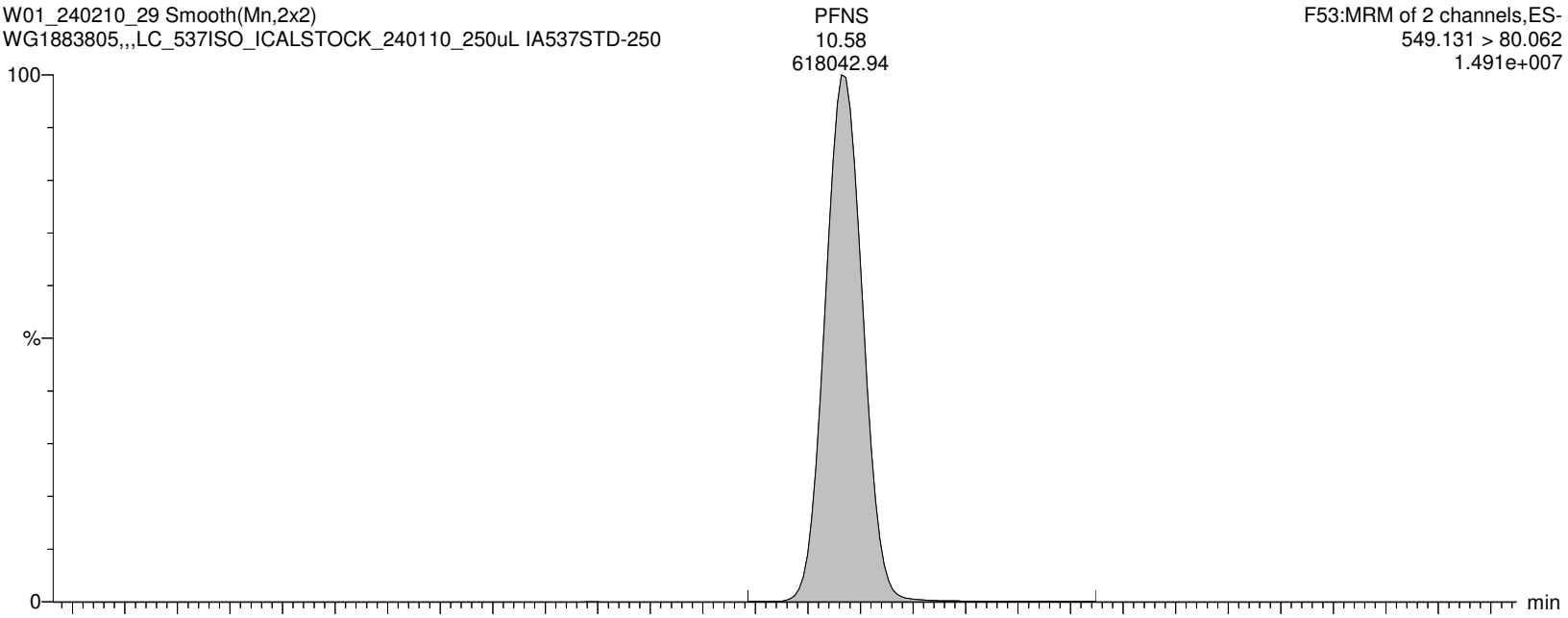

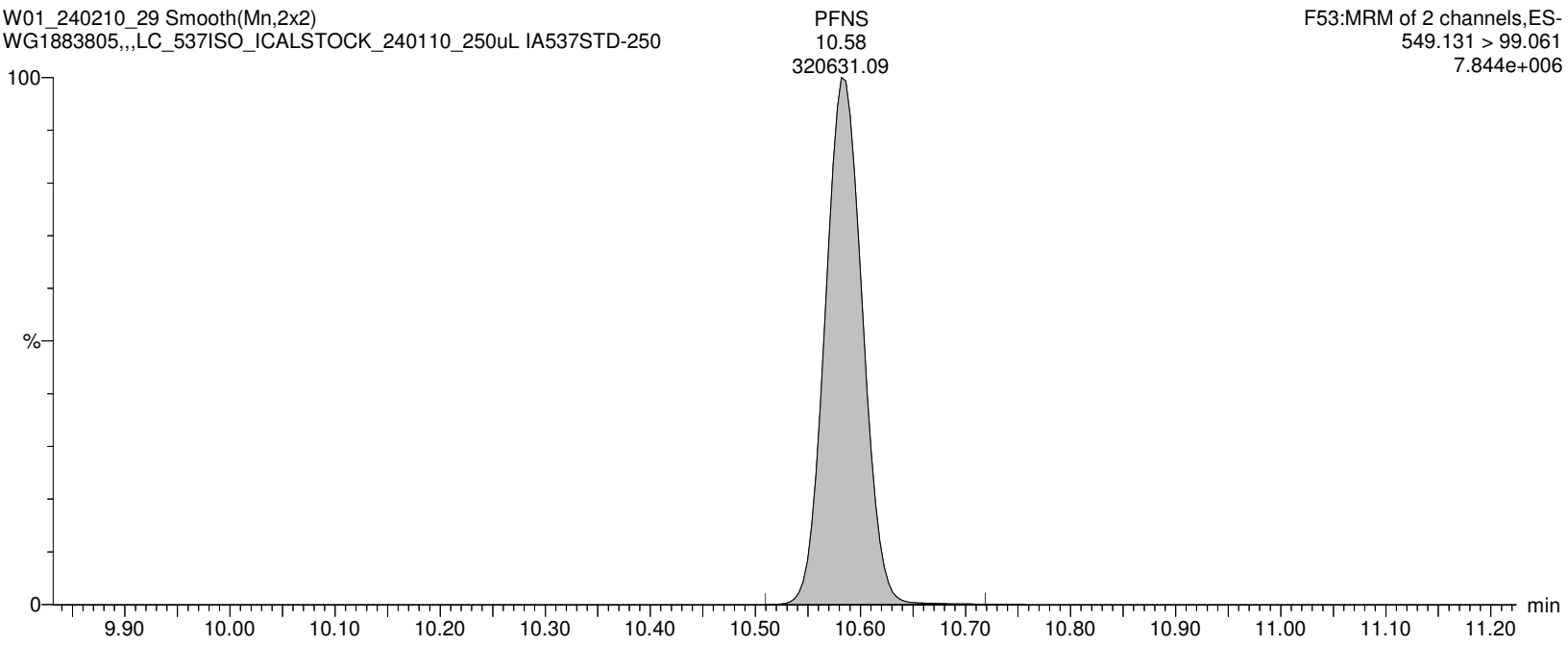

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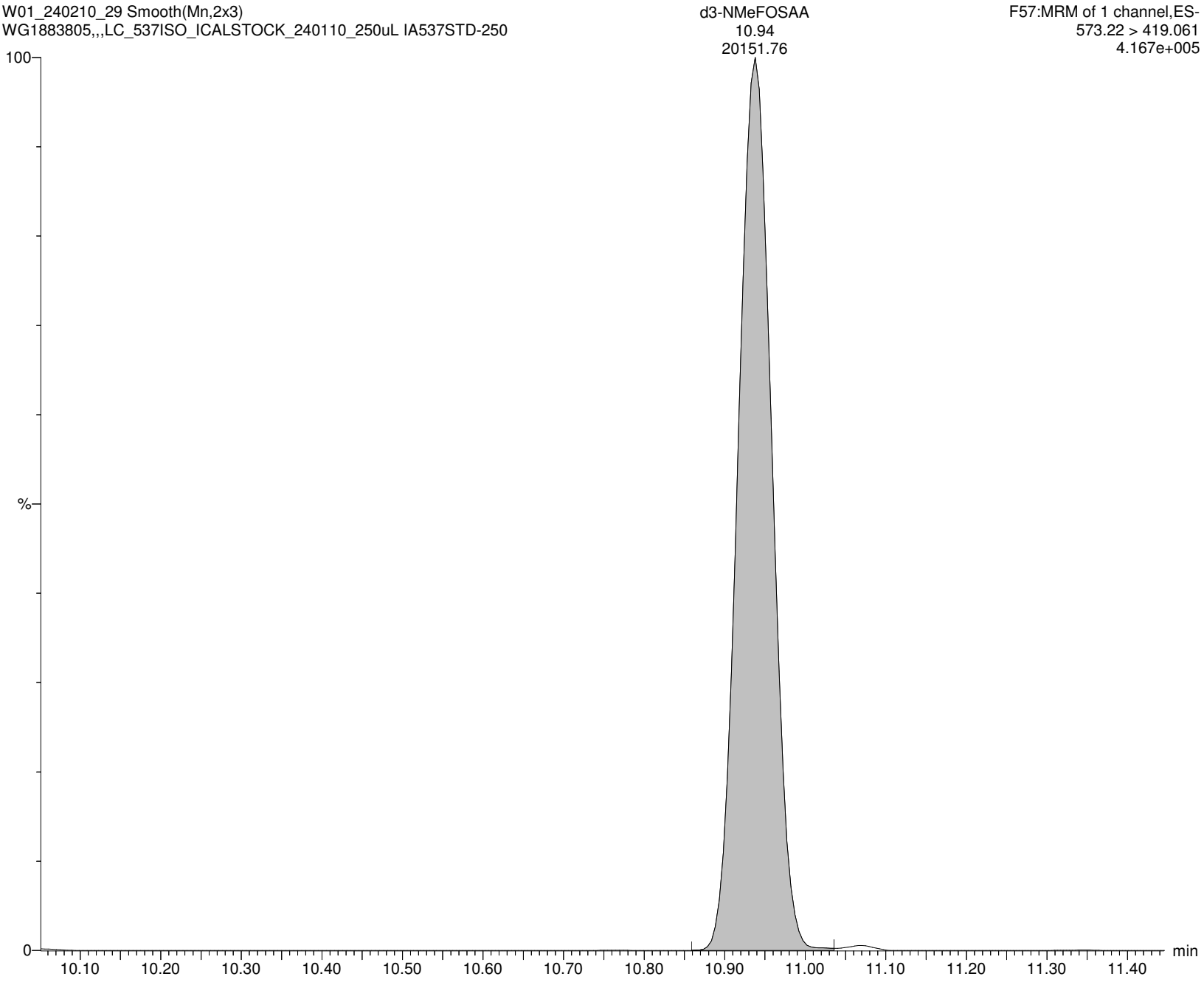

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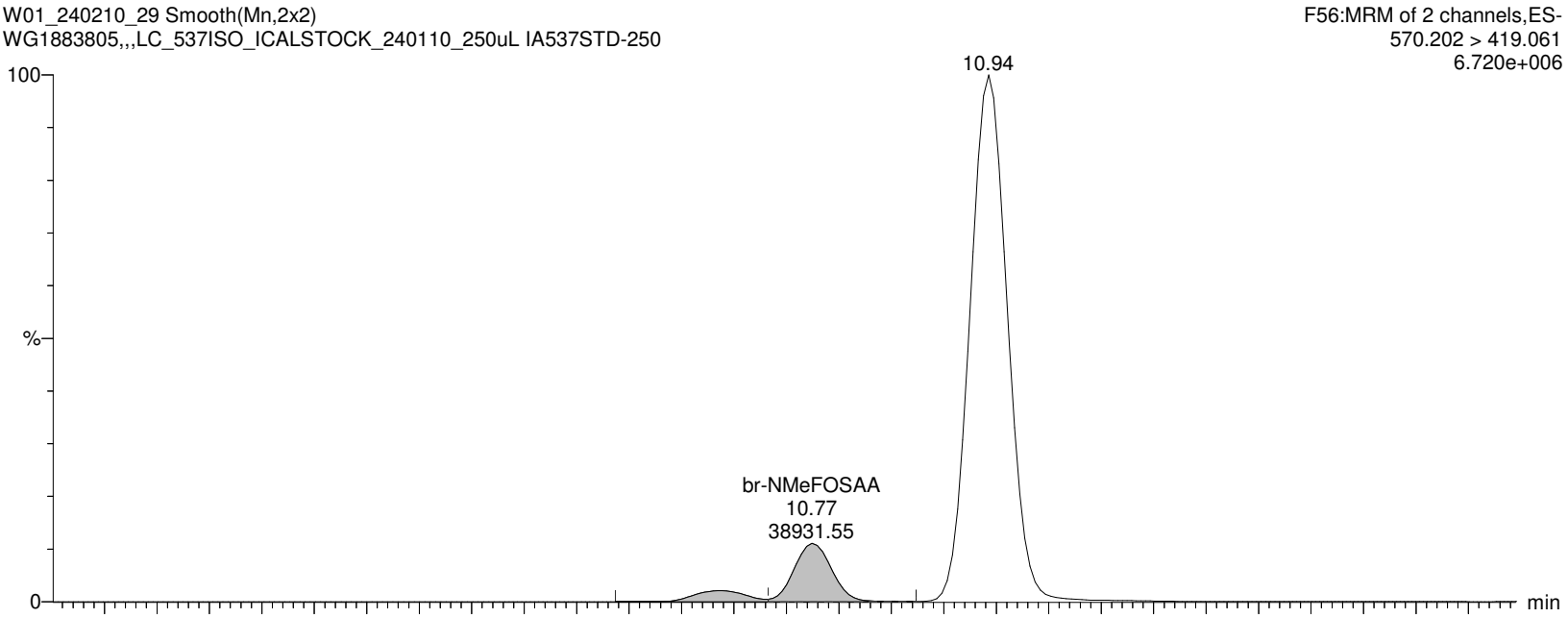
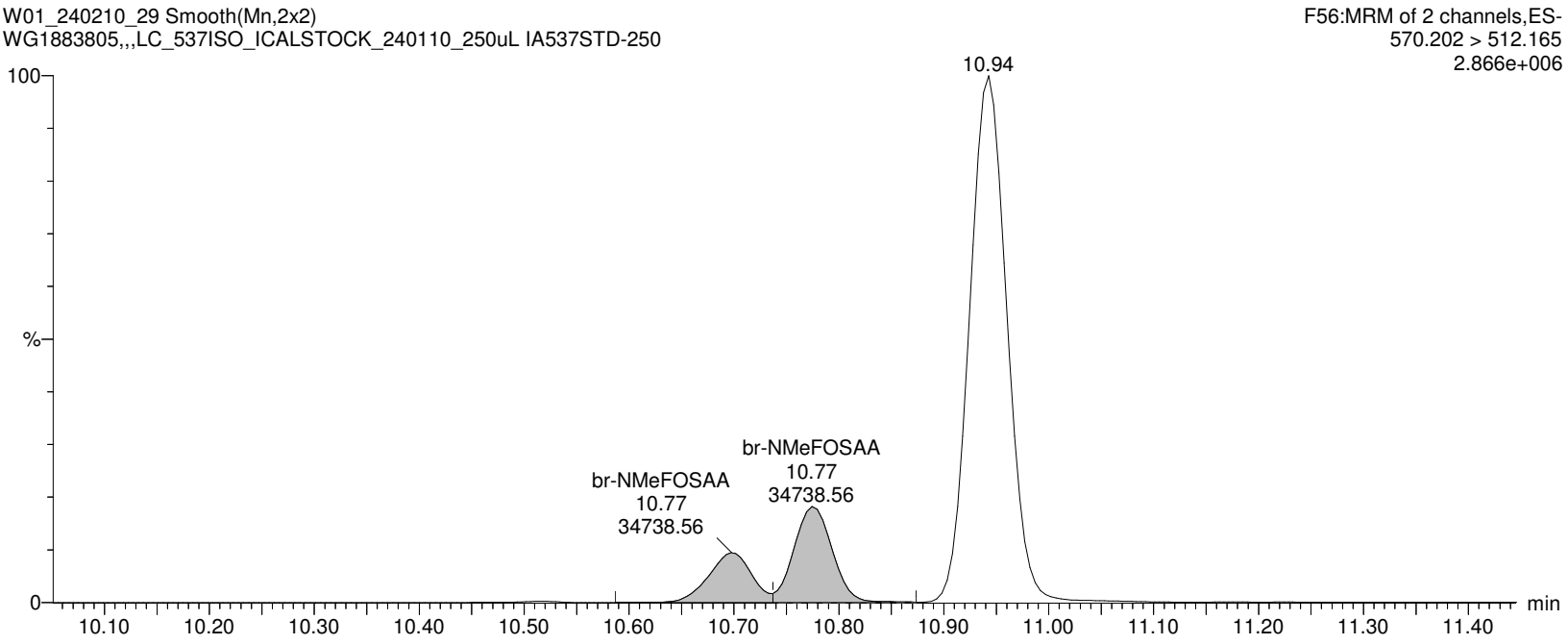
br-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:26 Eastern Standard Time

Name: W01_240210_29
ID: IA537STD-250
Date: 10-Feb-2024
Time: 18:26:00
Description: WG1883805,,,LC_537ISO_ICALSTOCK_240110_250uL
User: LCMS01:SG
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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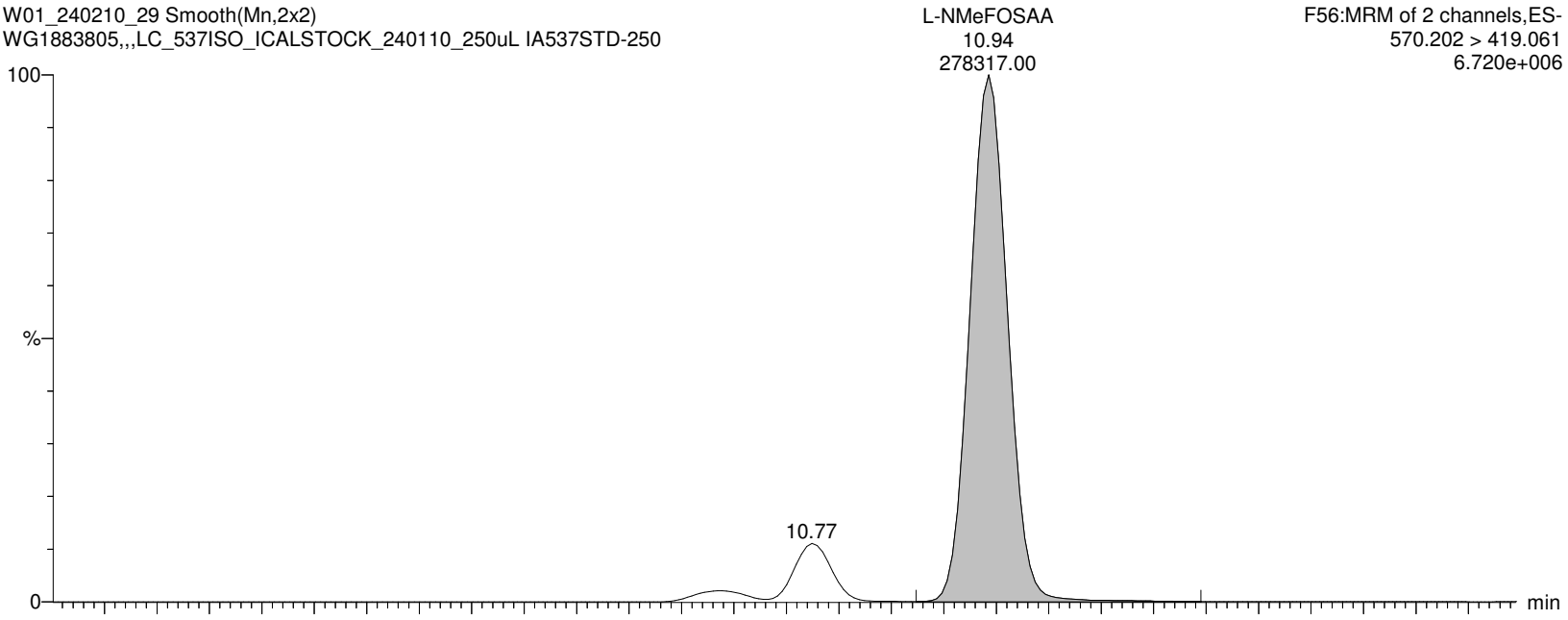

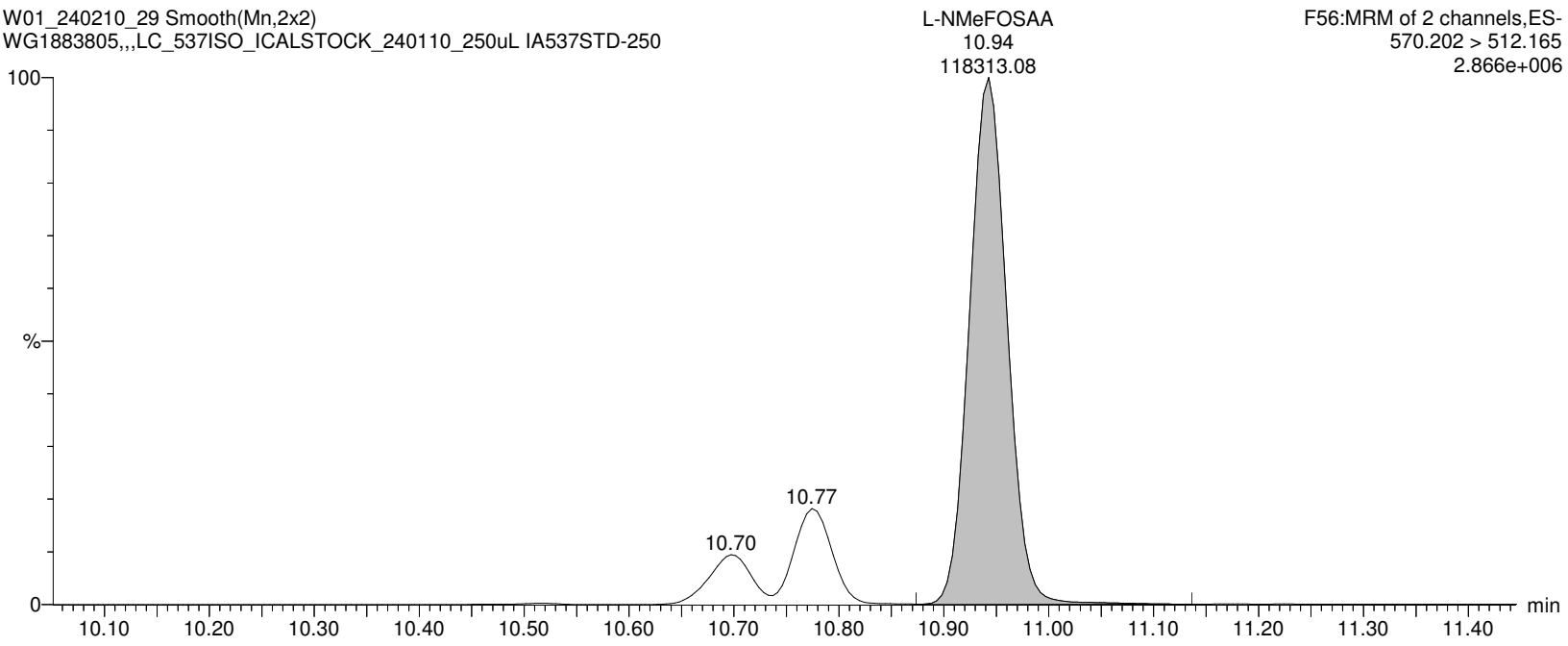

all concentration units in (ng/mL)

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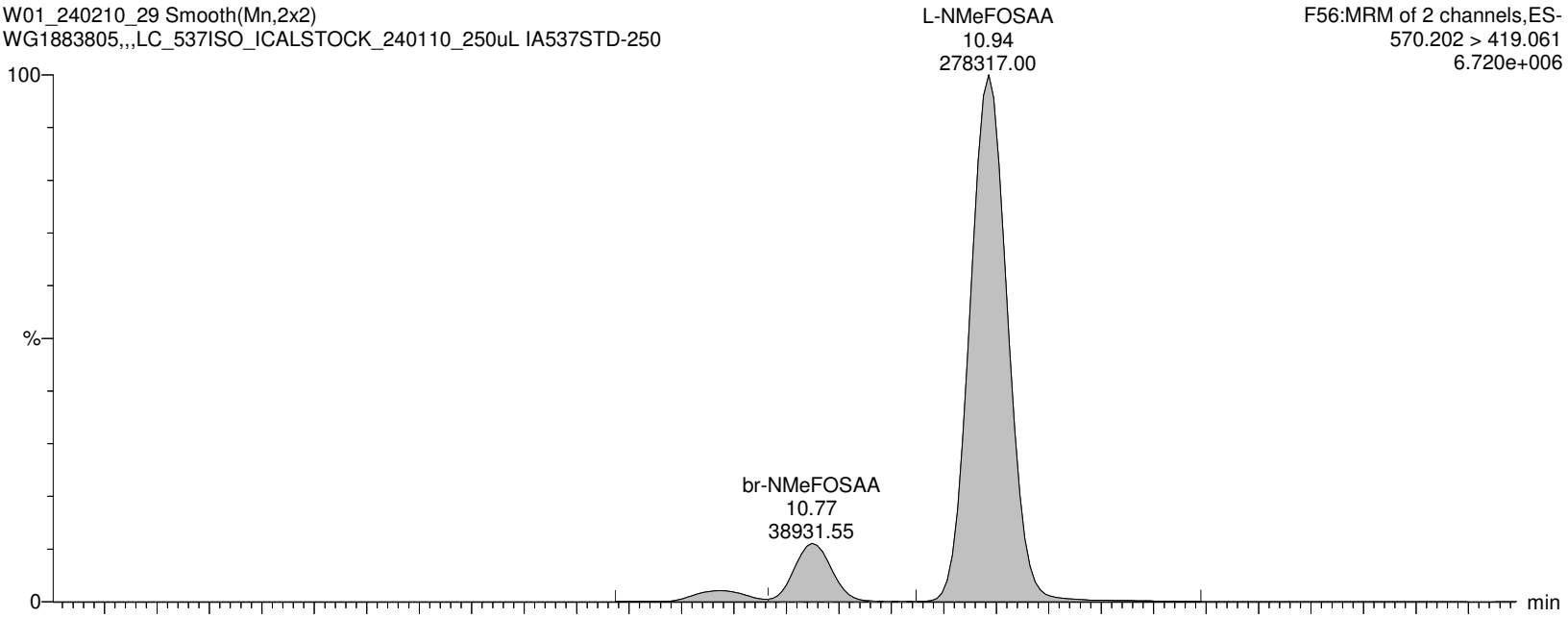

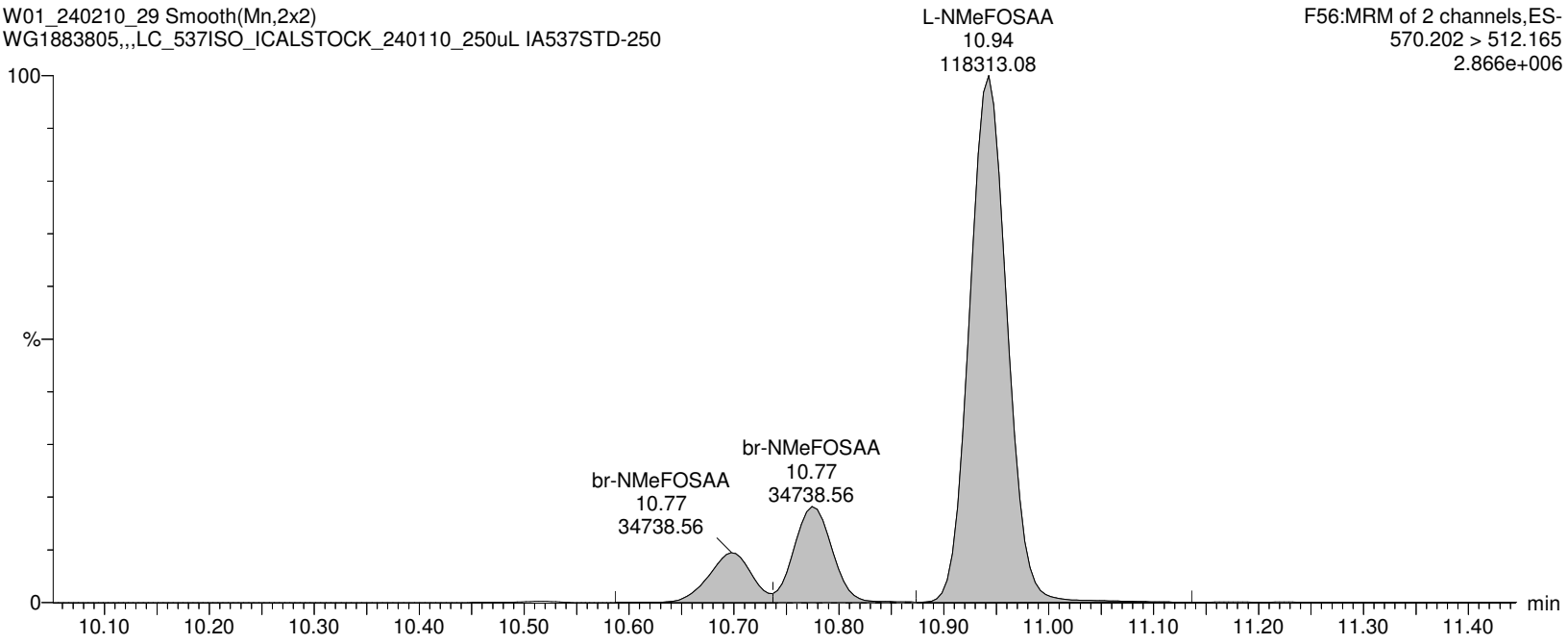

all concentration units in (ng/mL)

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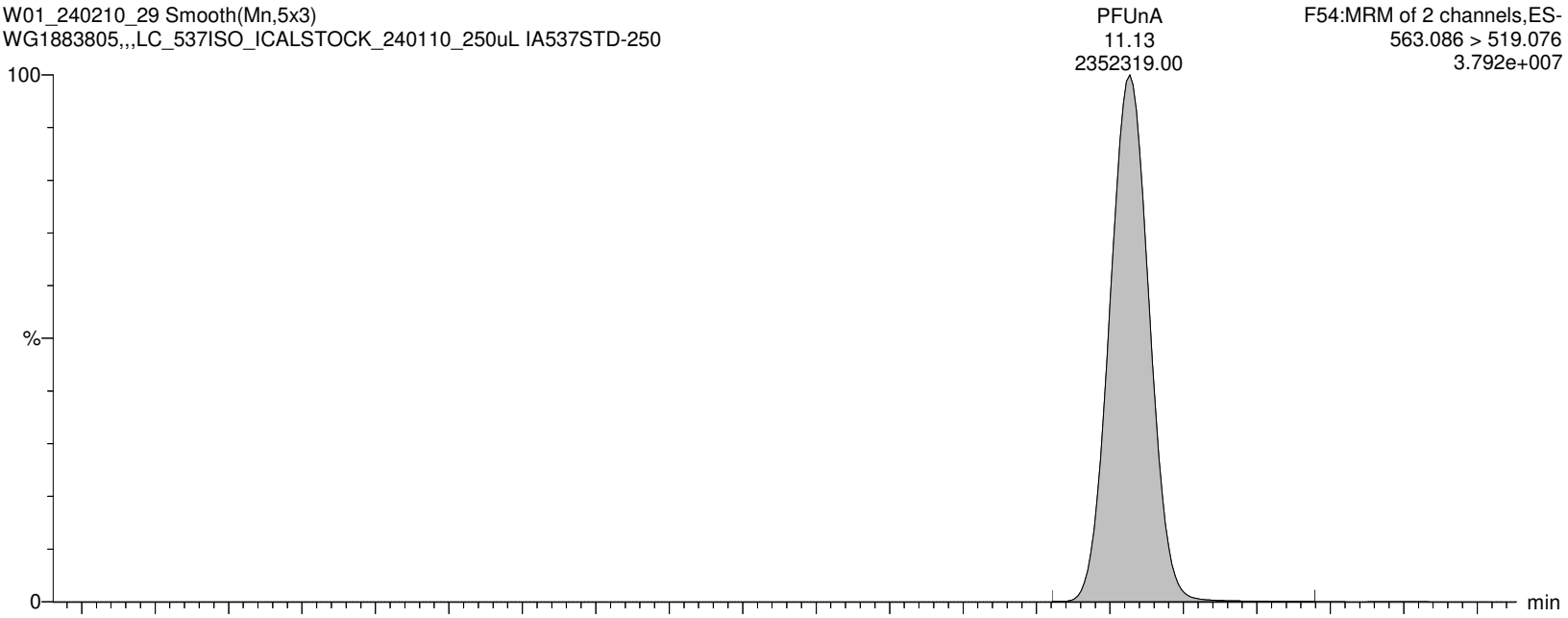

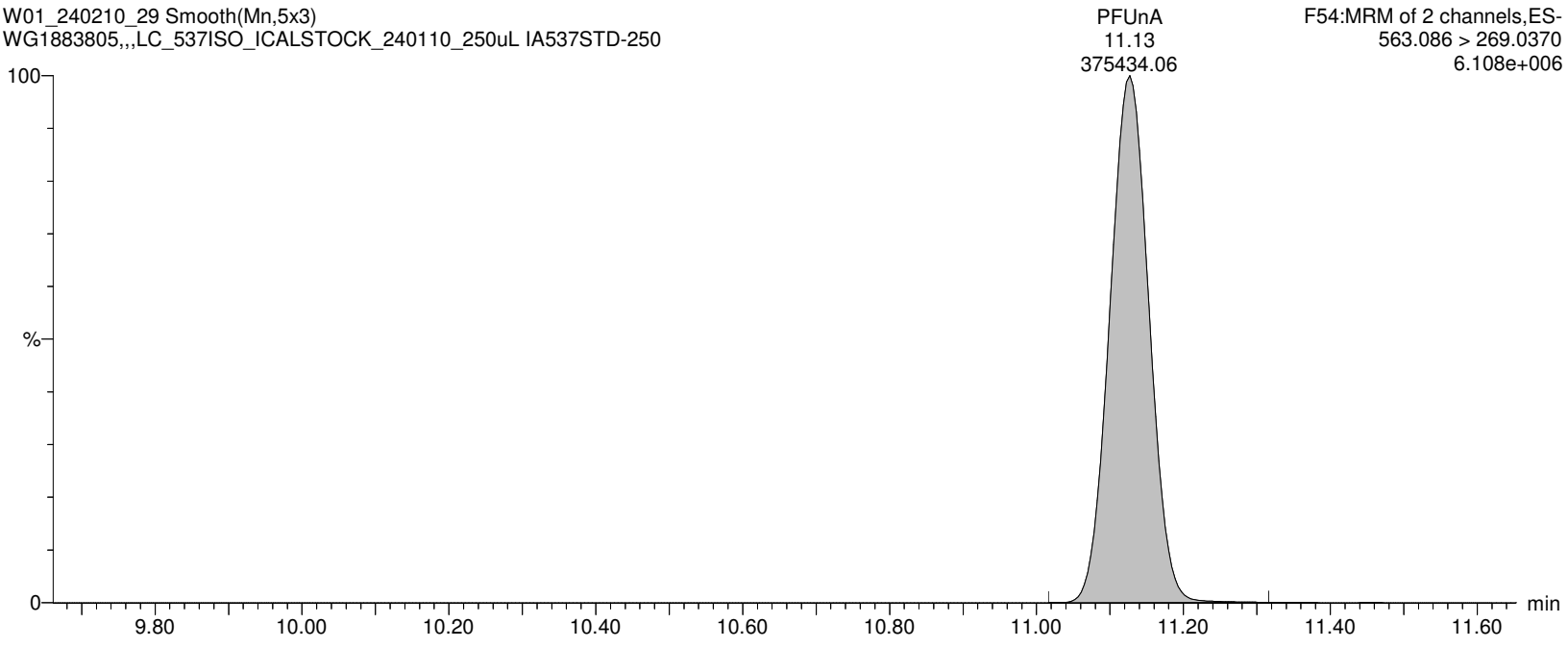

all concentration units in (ng/mL)

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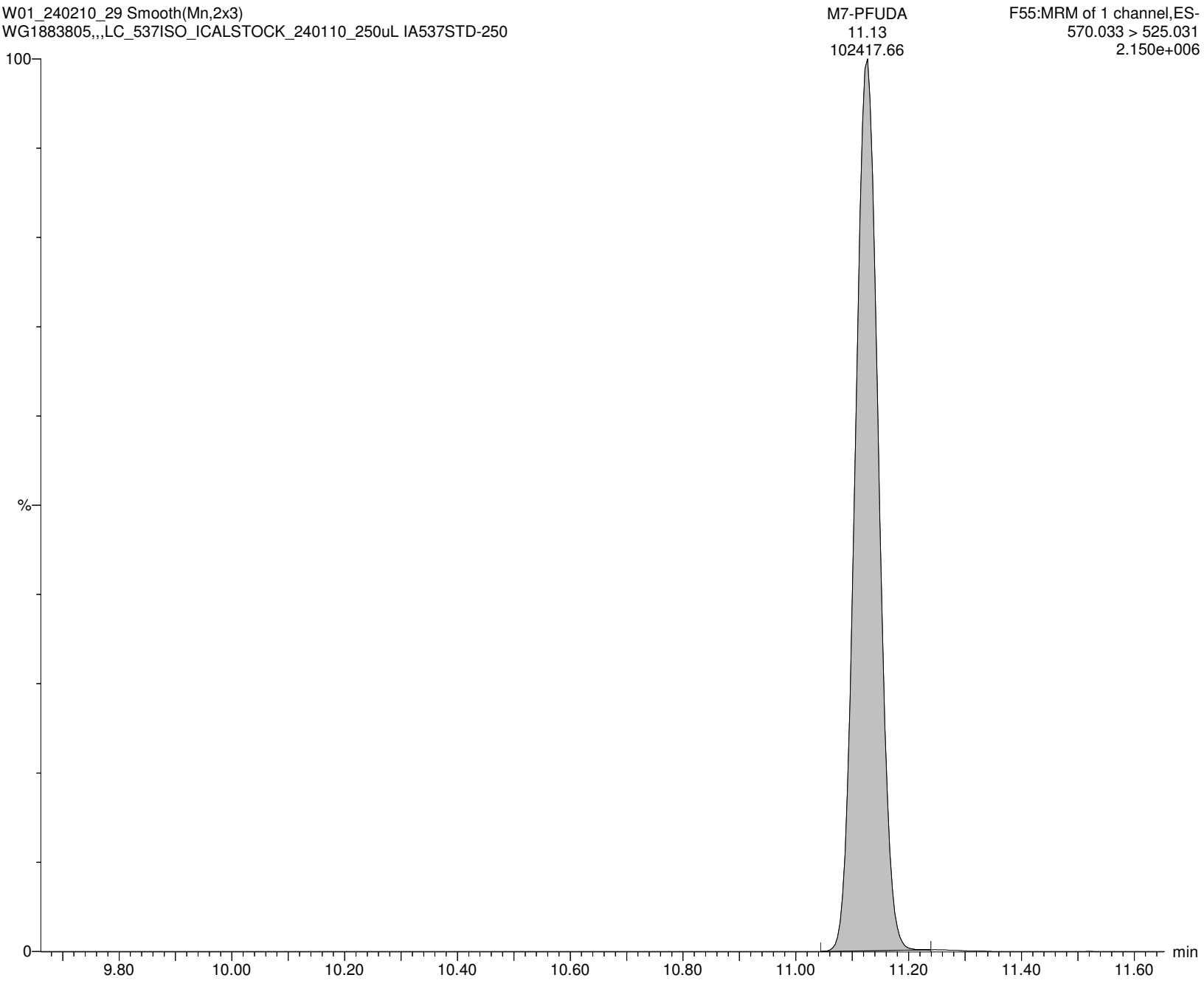

all concentration units in (ng/mL)

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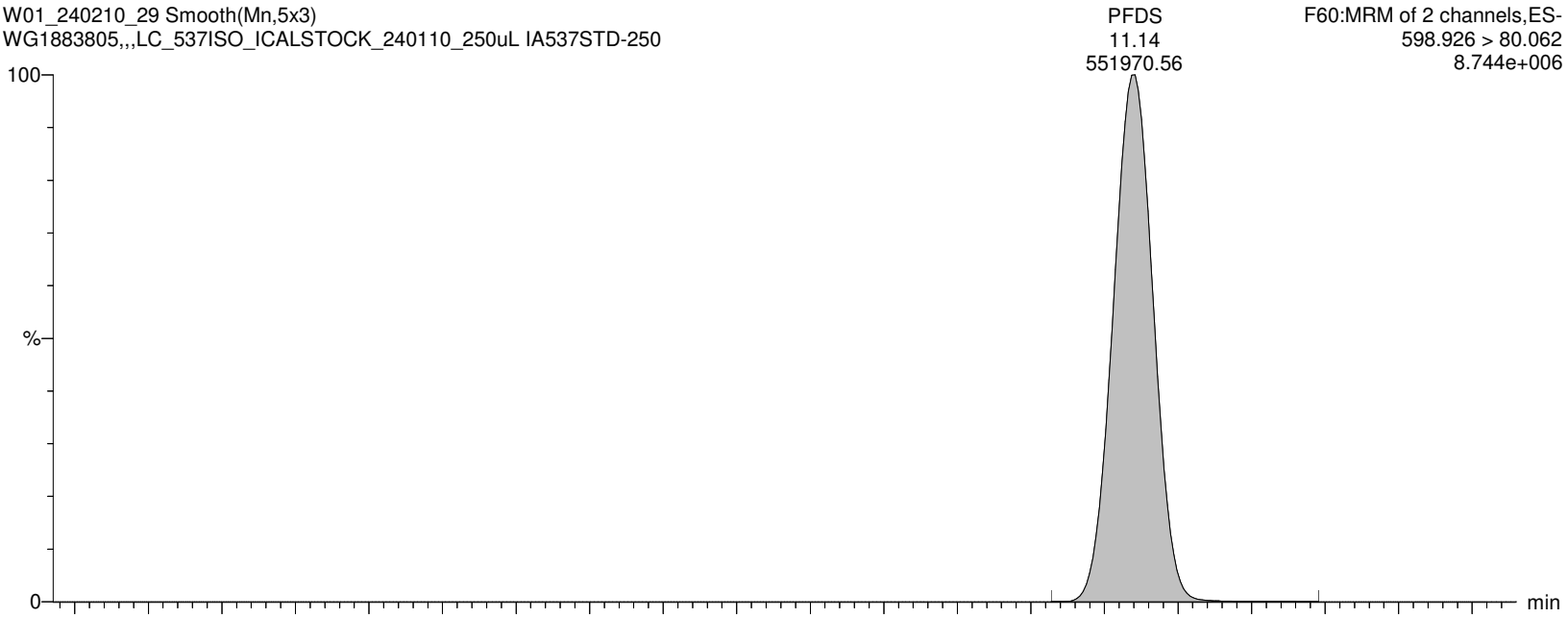

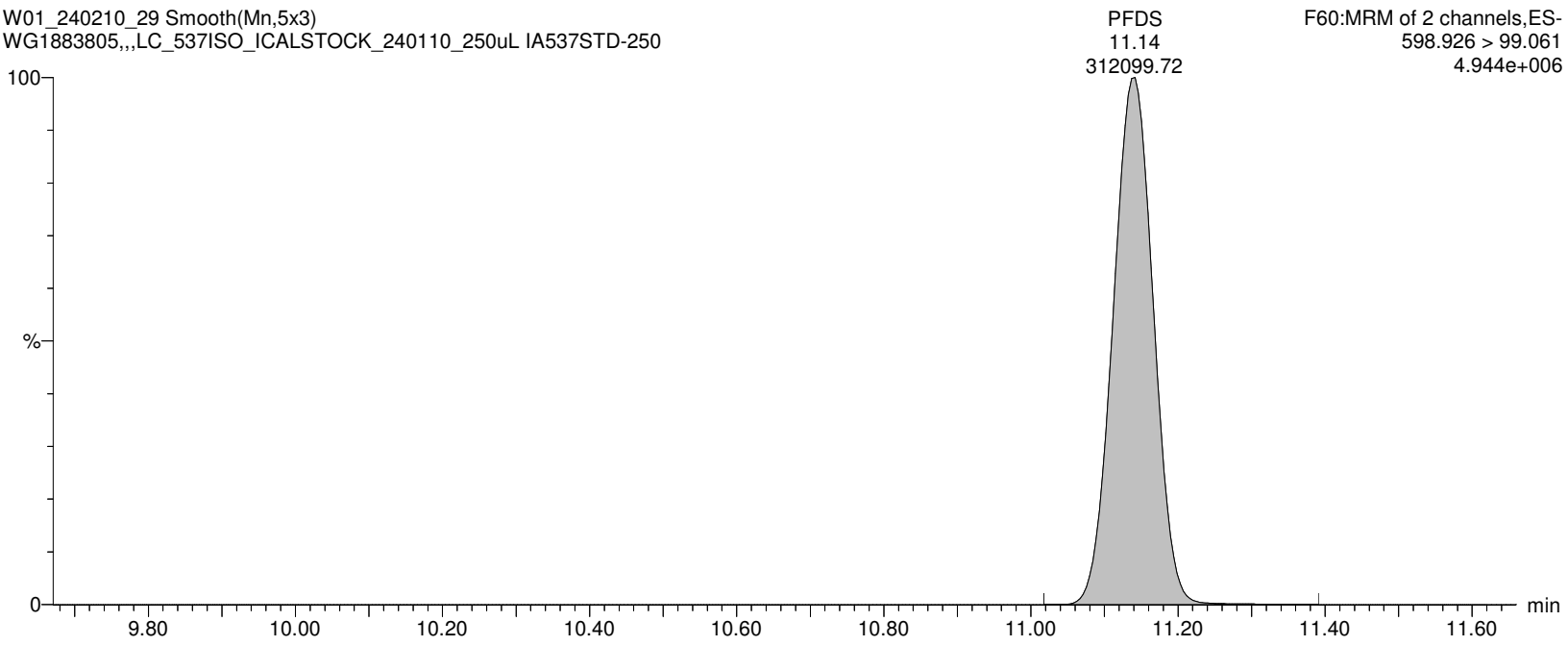

all concentration units in (ng/mL)

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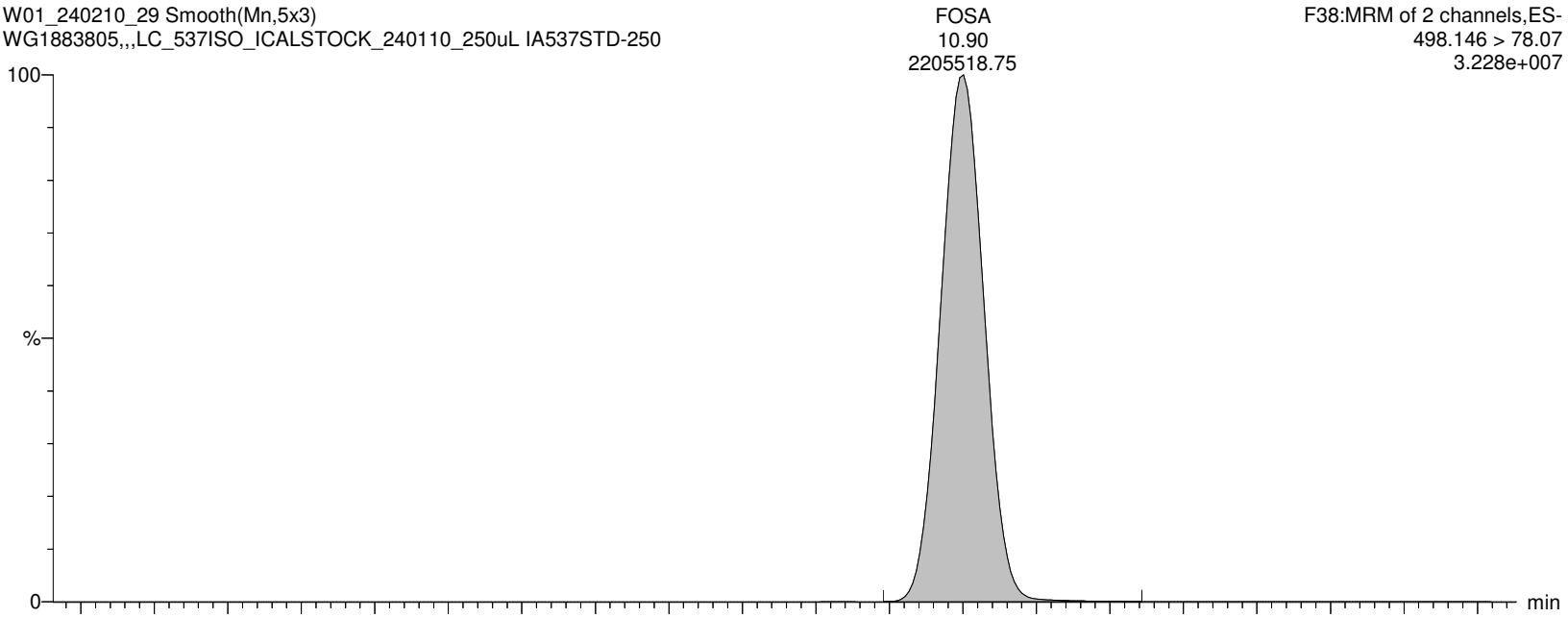

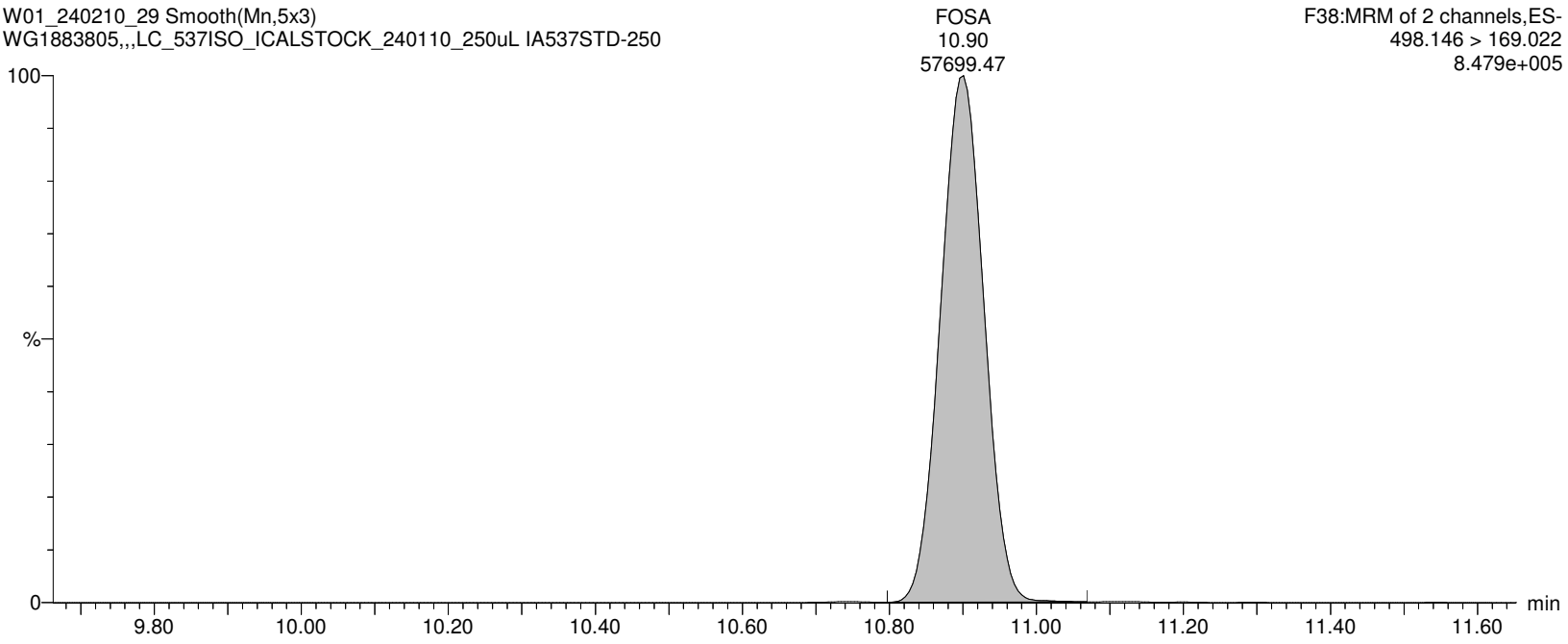

all concentration units in (ng/mL)

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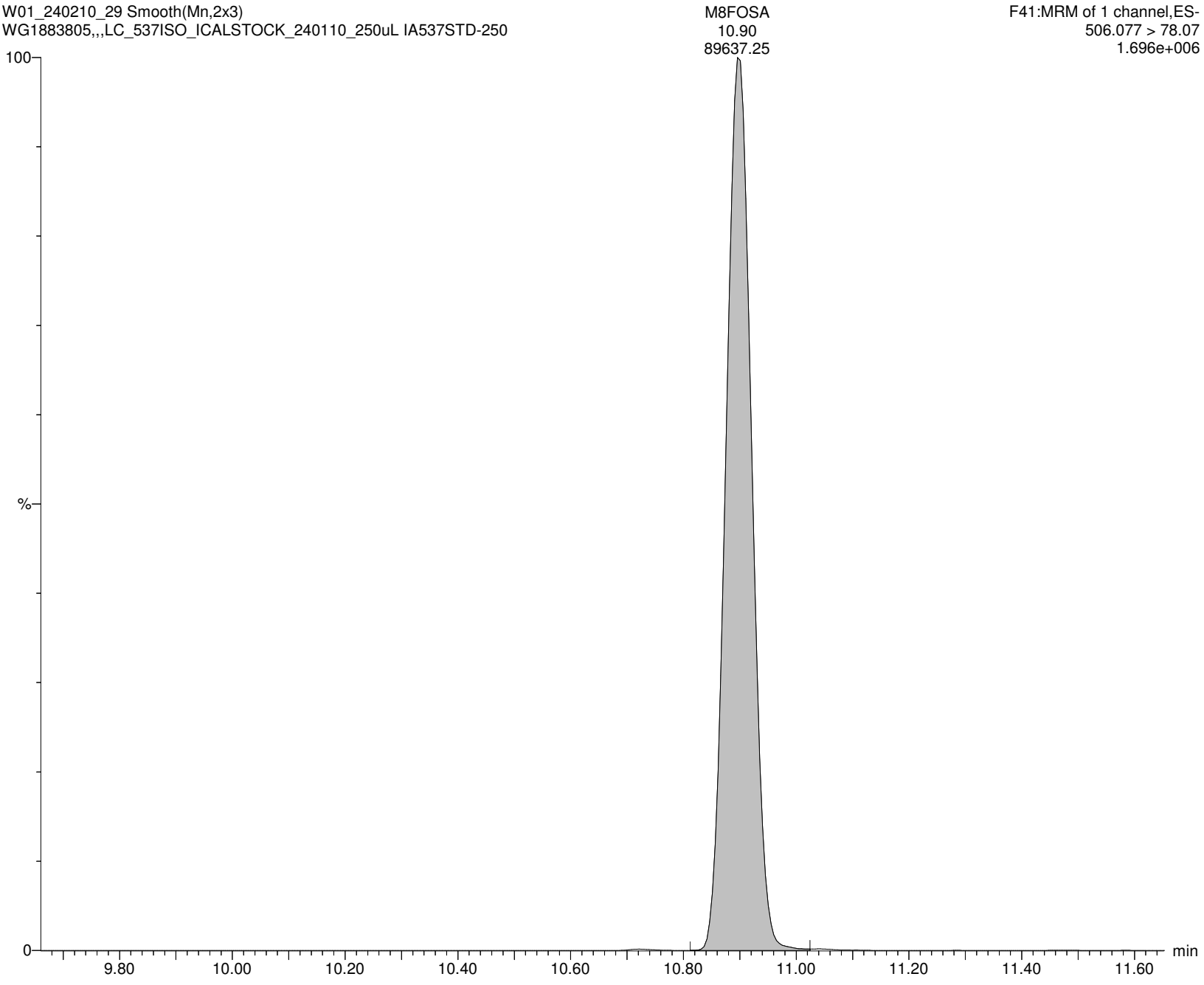

all concentration units in (ng/mL)

Alpha Analytical Inc.
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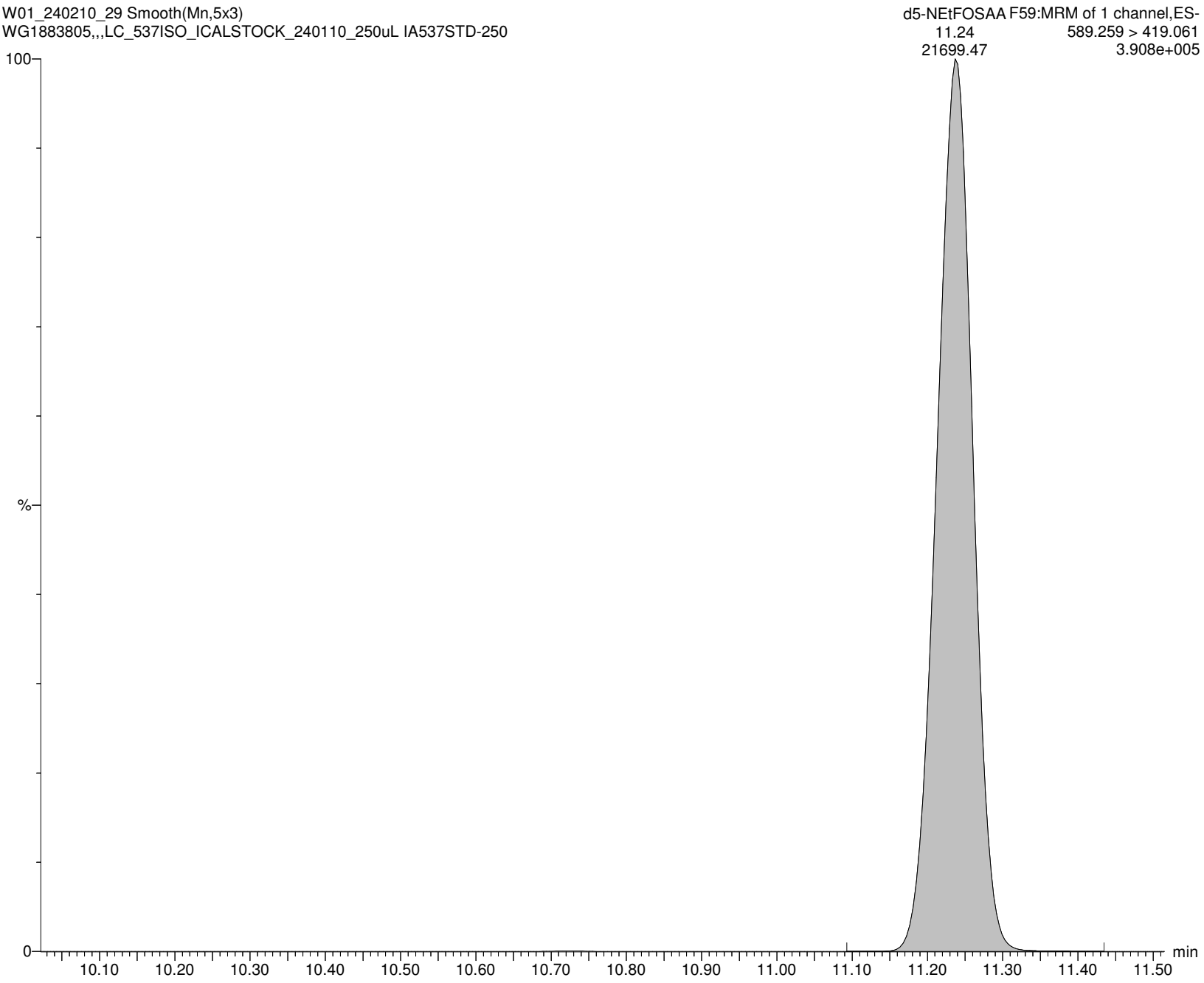
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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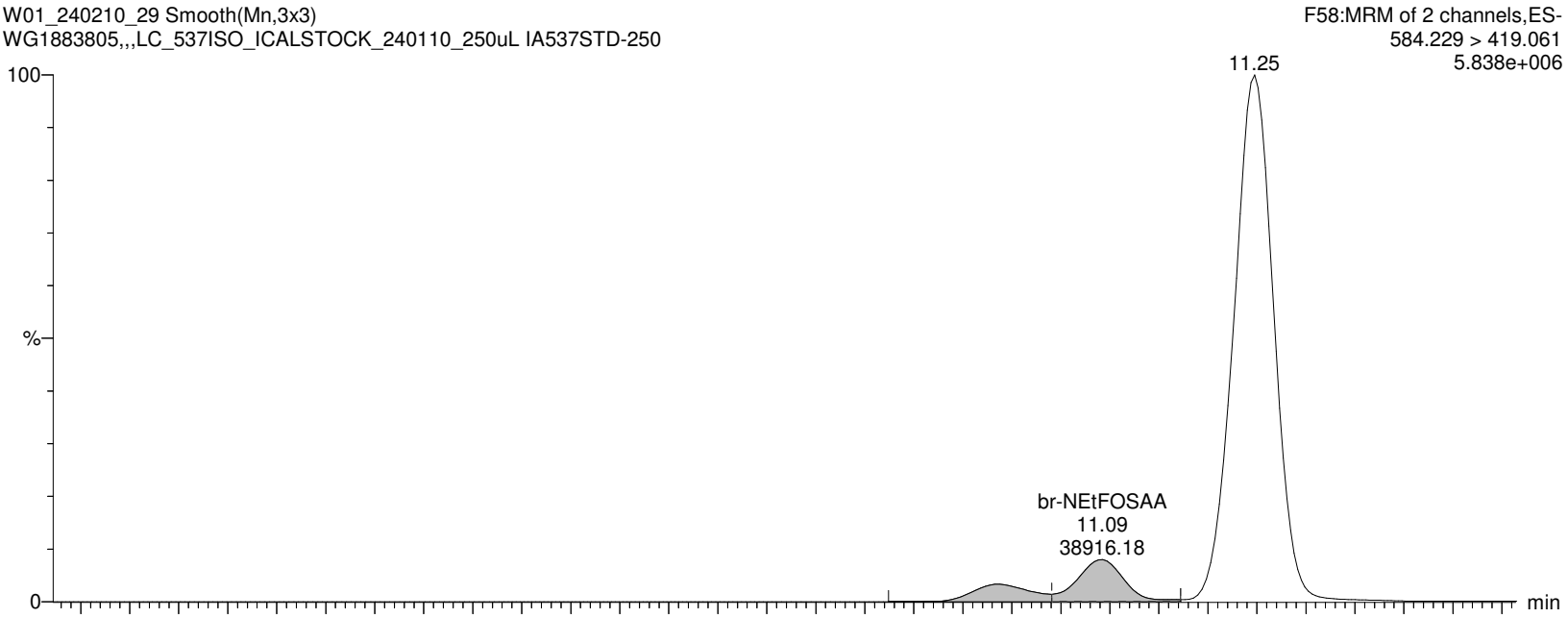

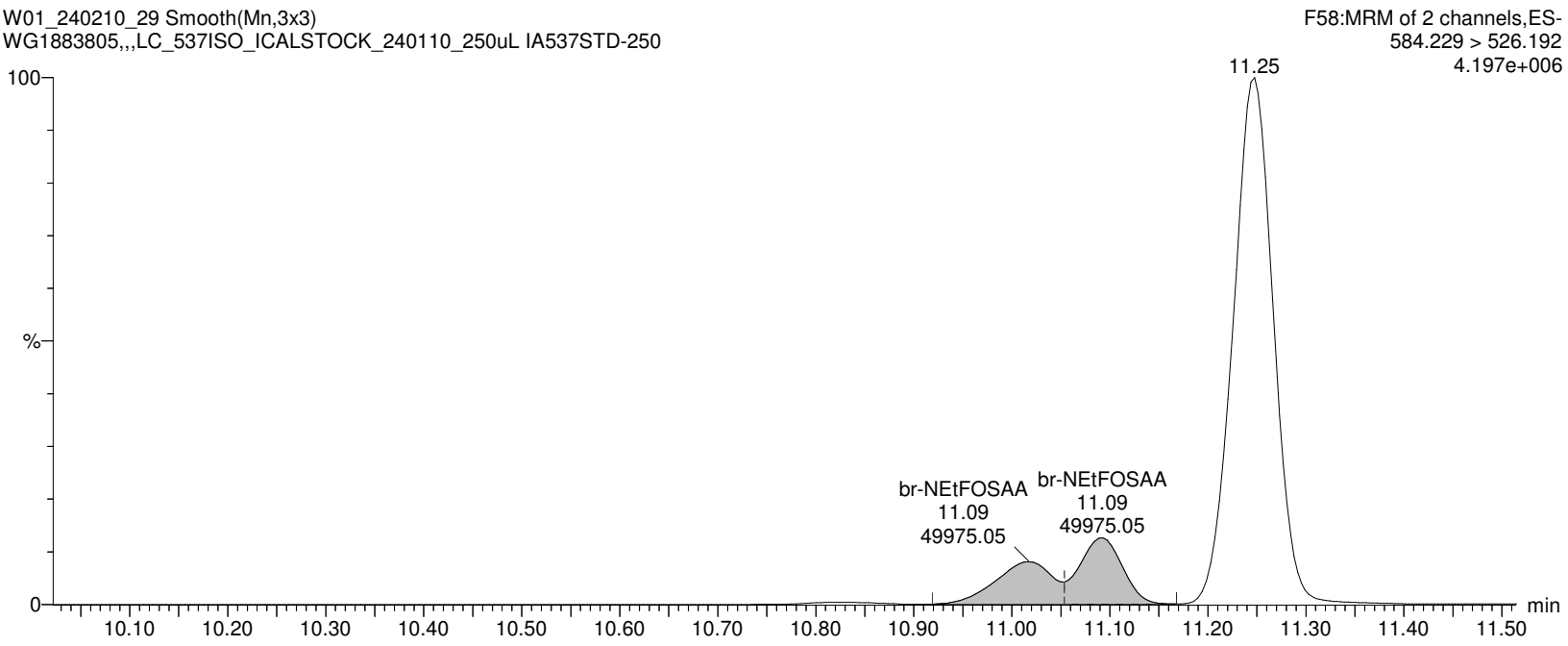

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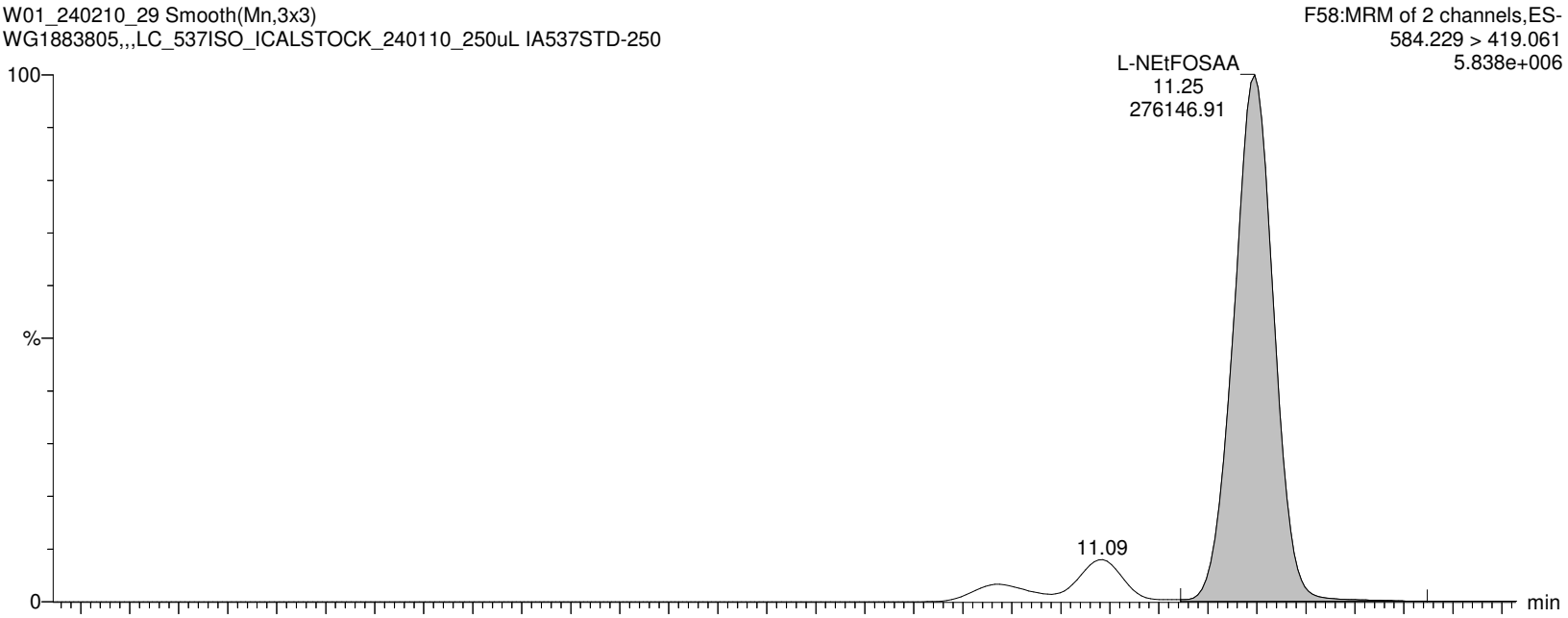
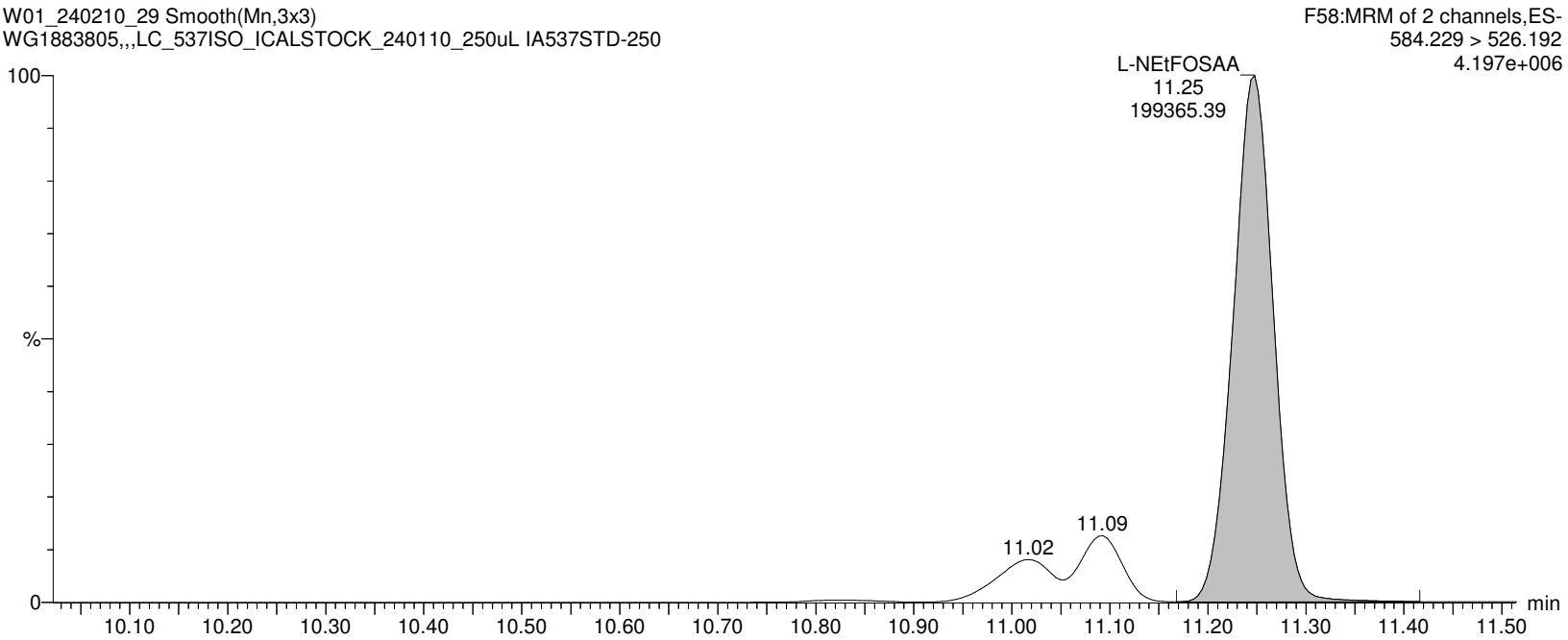
L-NEtFOSAA





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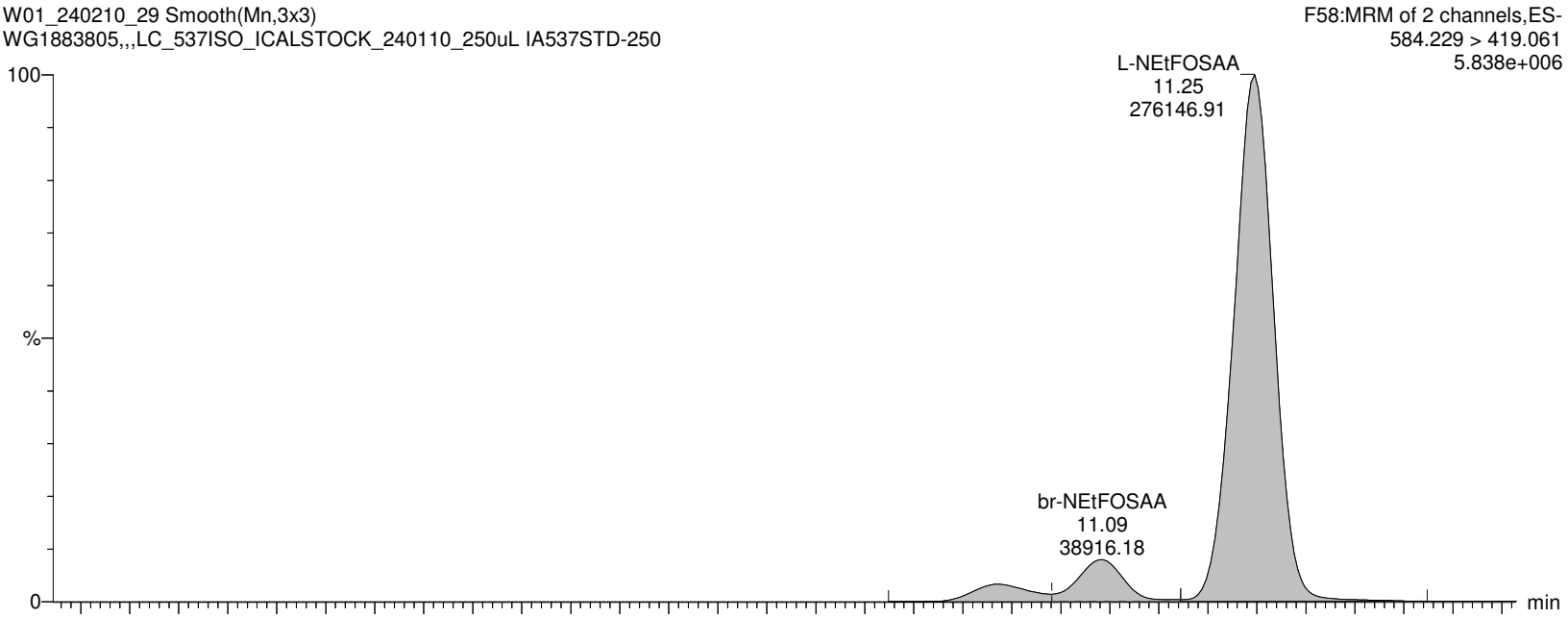

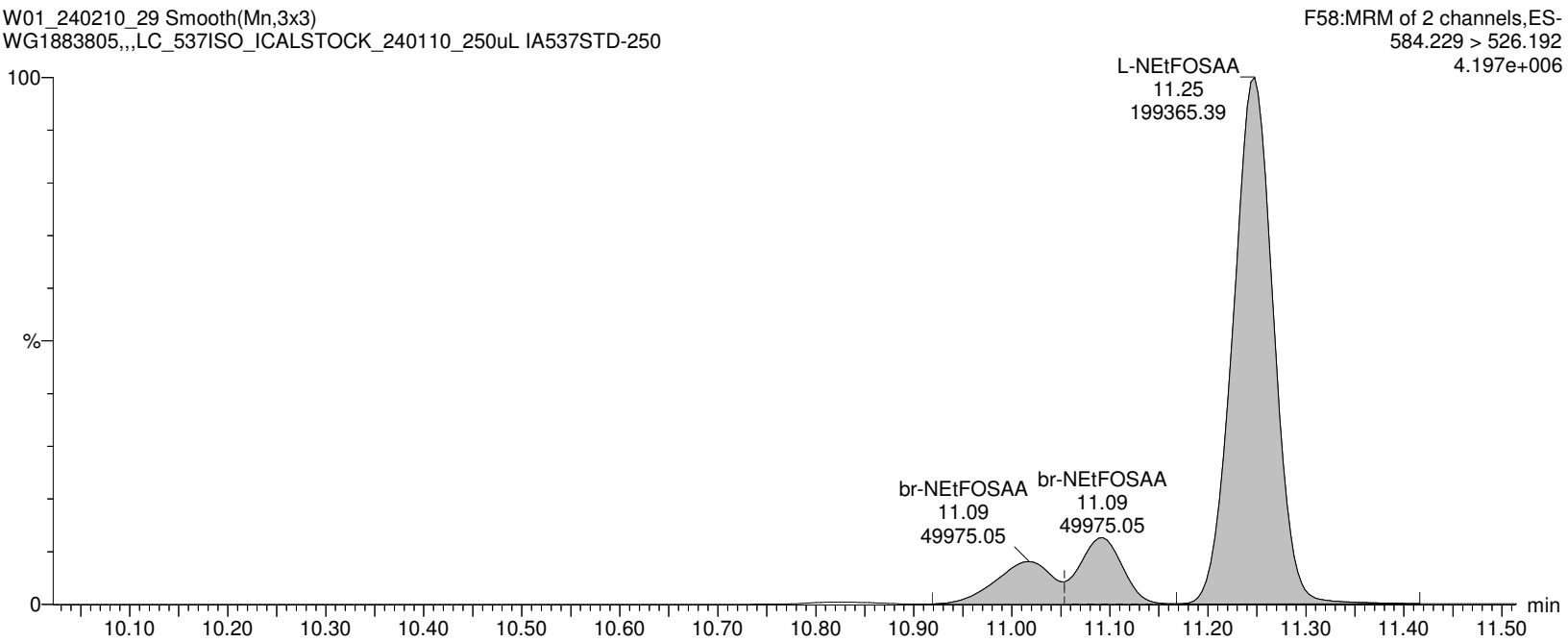

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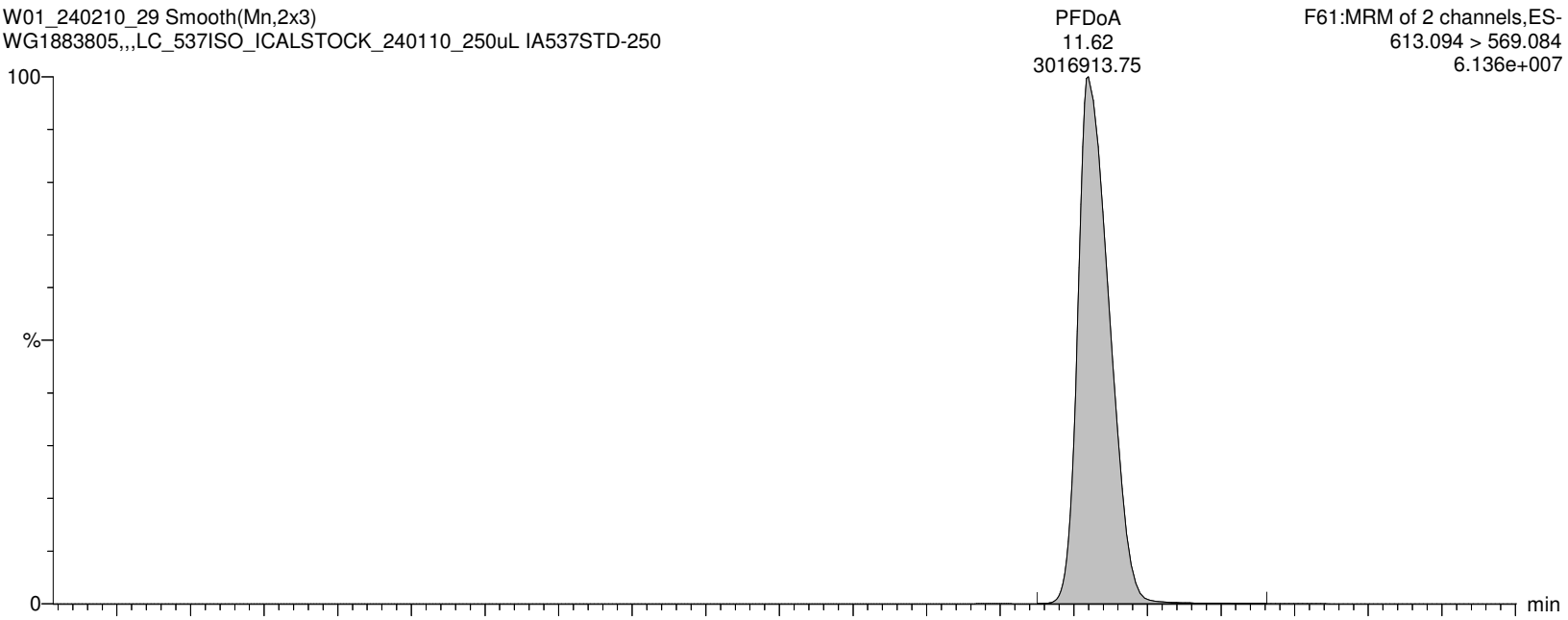

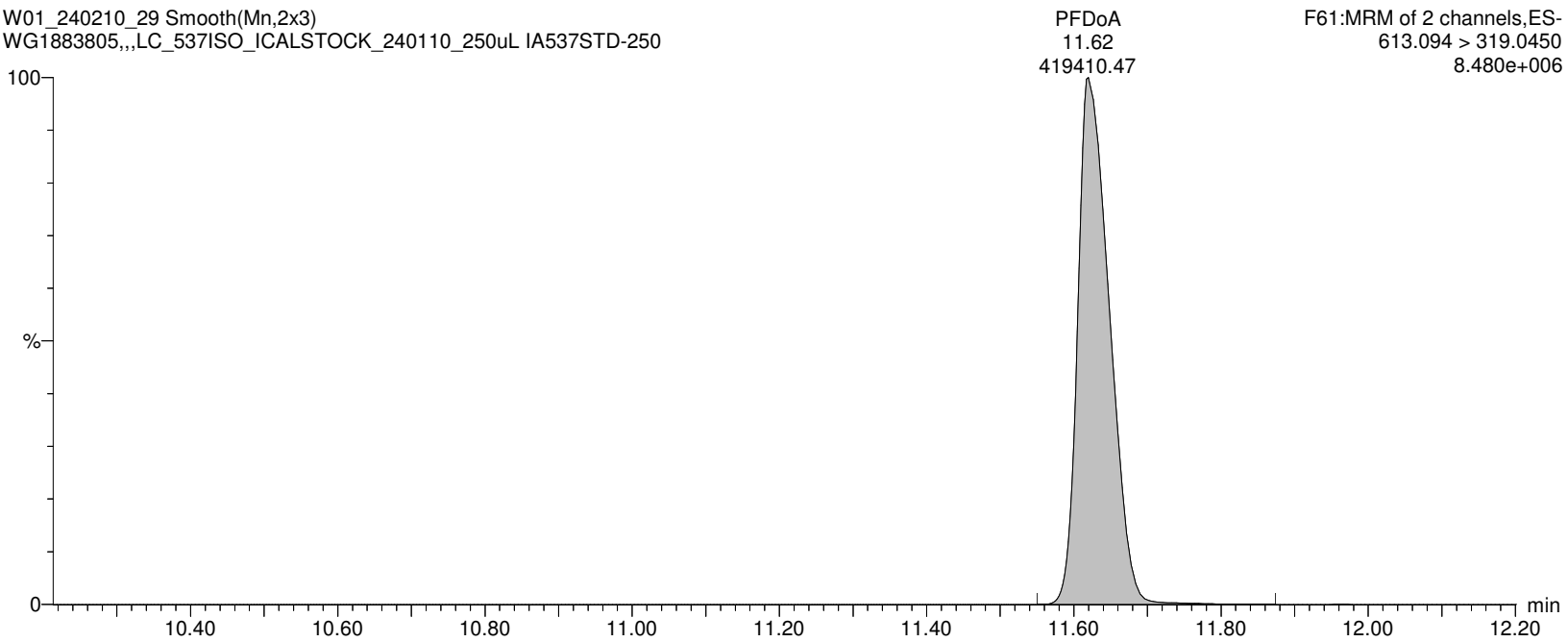

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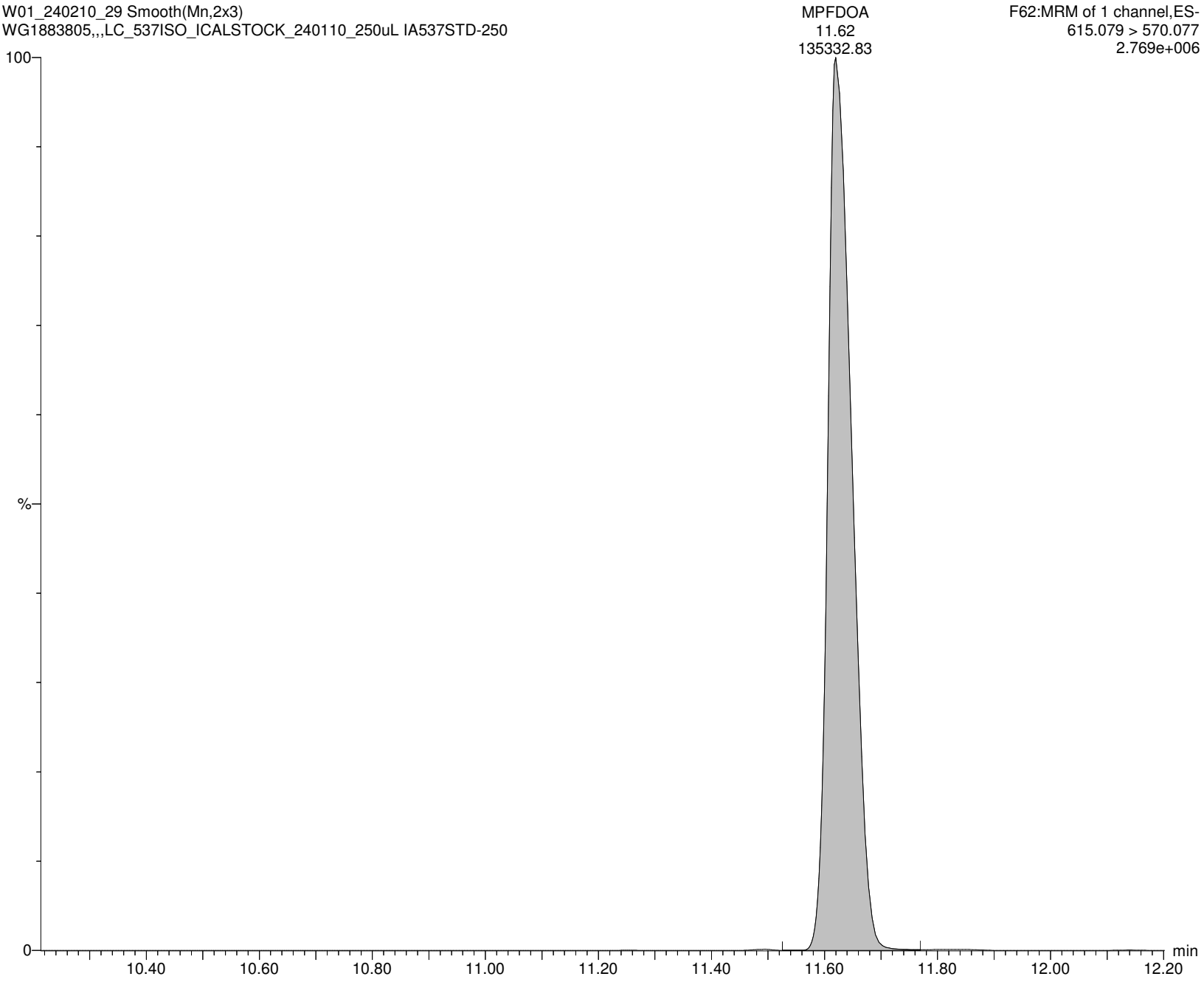

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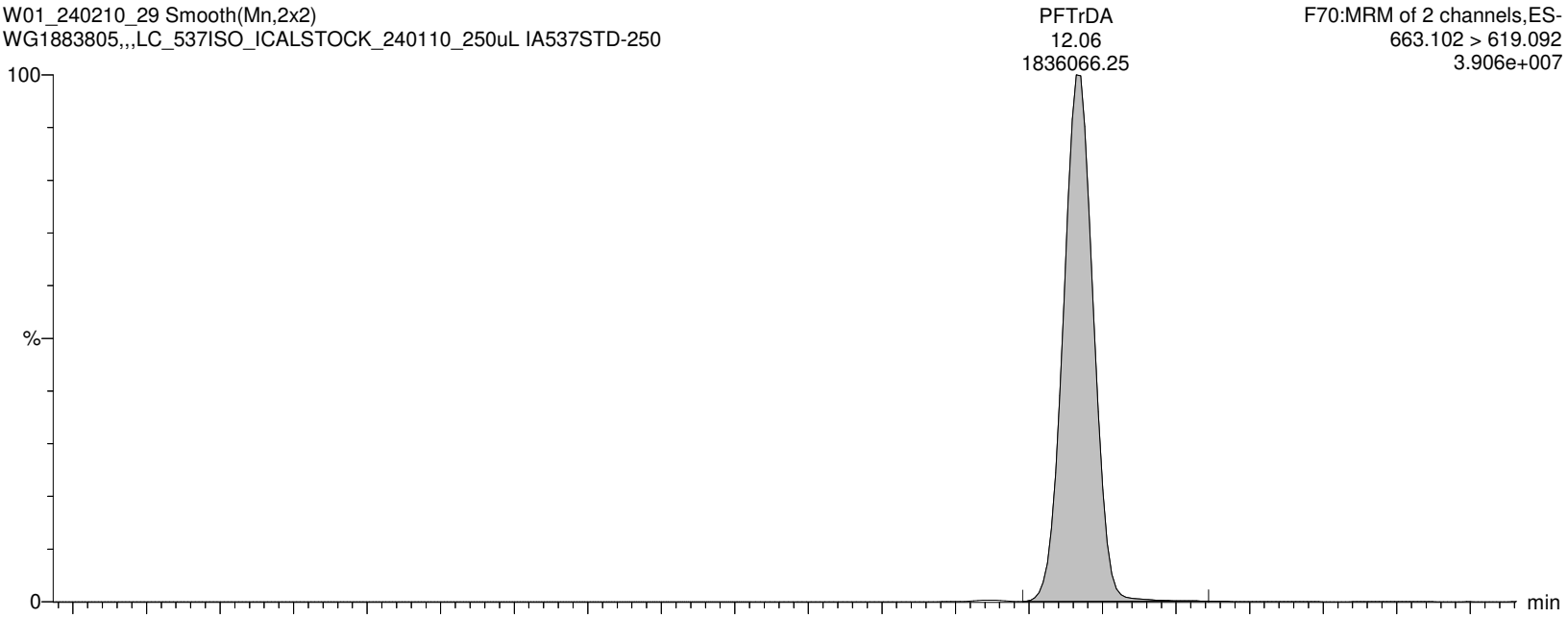

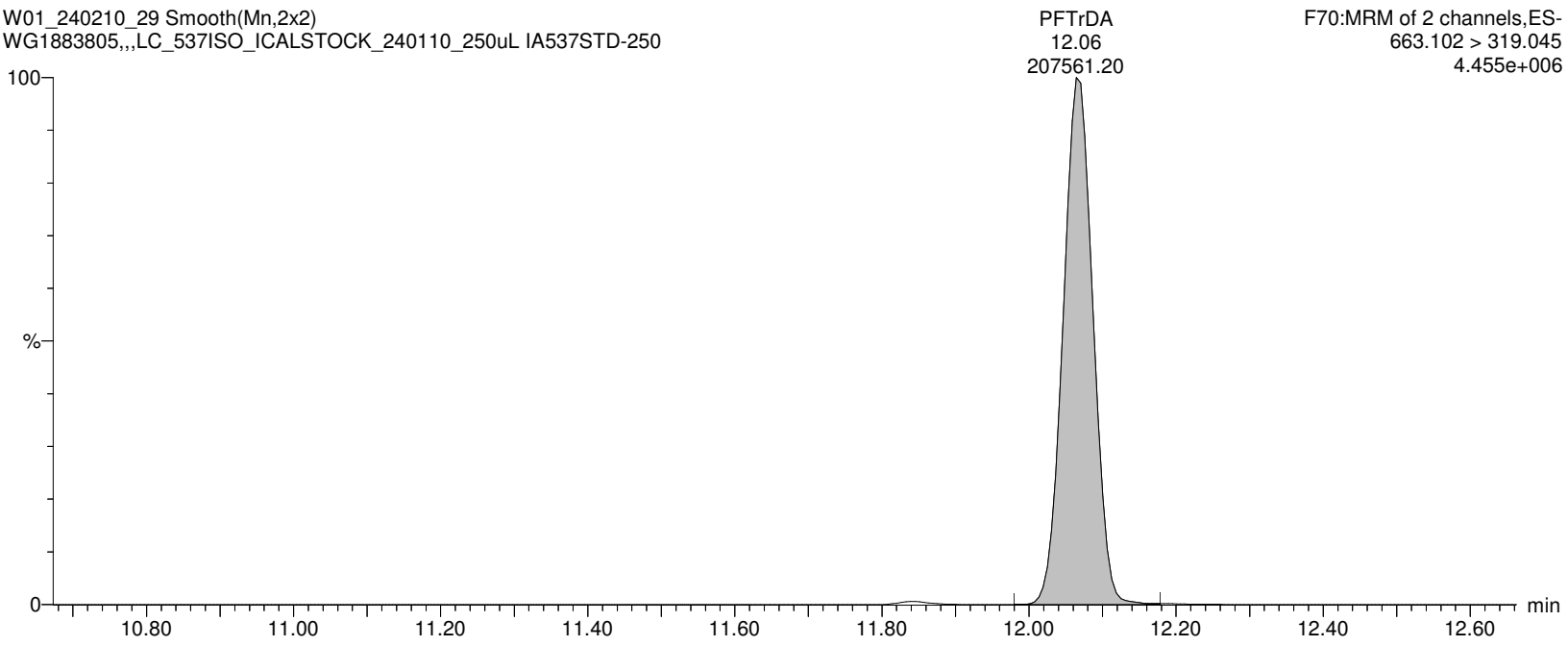

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:26 Eastern Standard Time

Name: W01_240210_29
ID: IA537STD-250
Date: 10-Feb-2024
Time: 18:26:00
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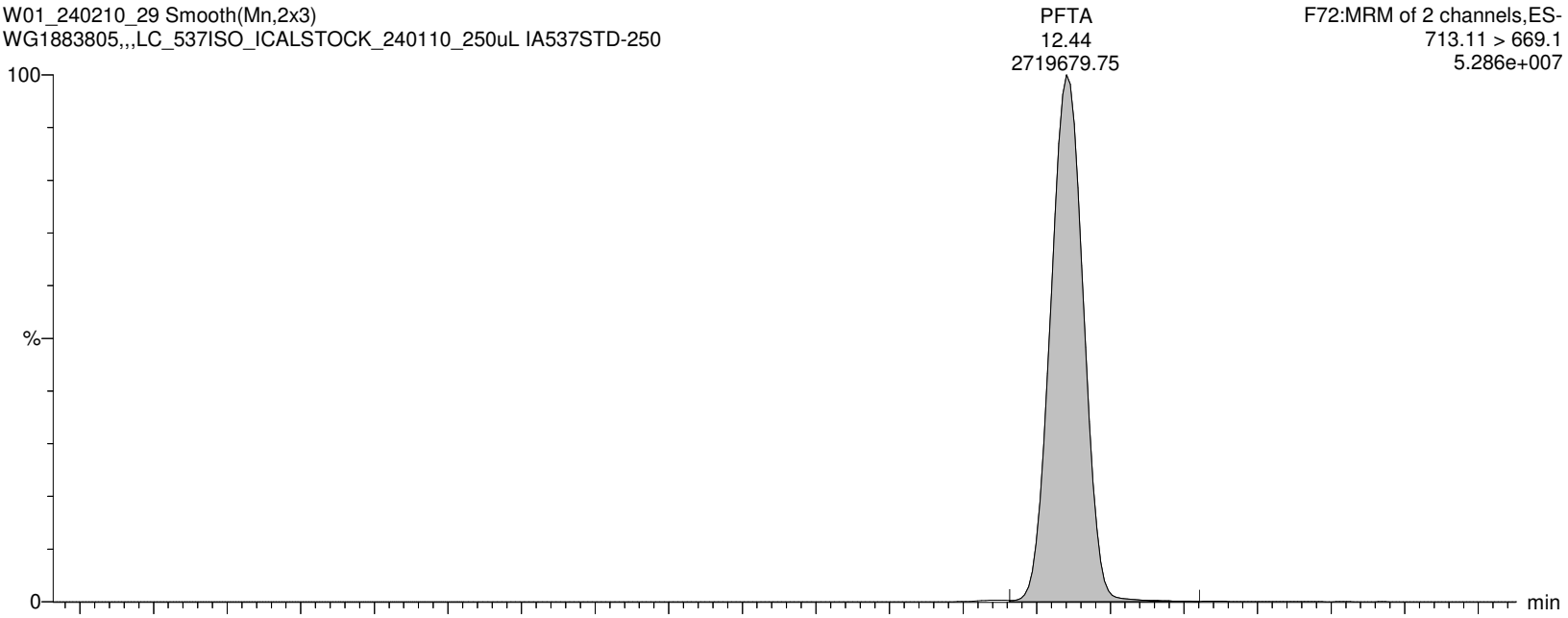

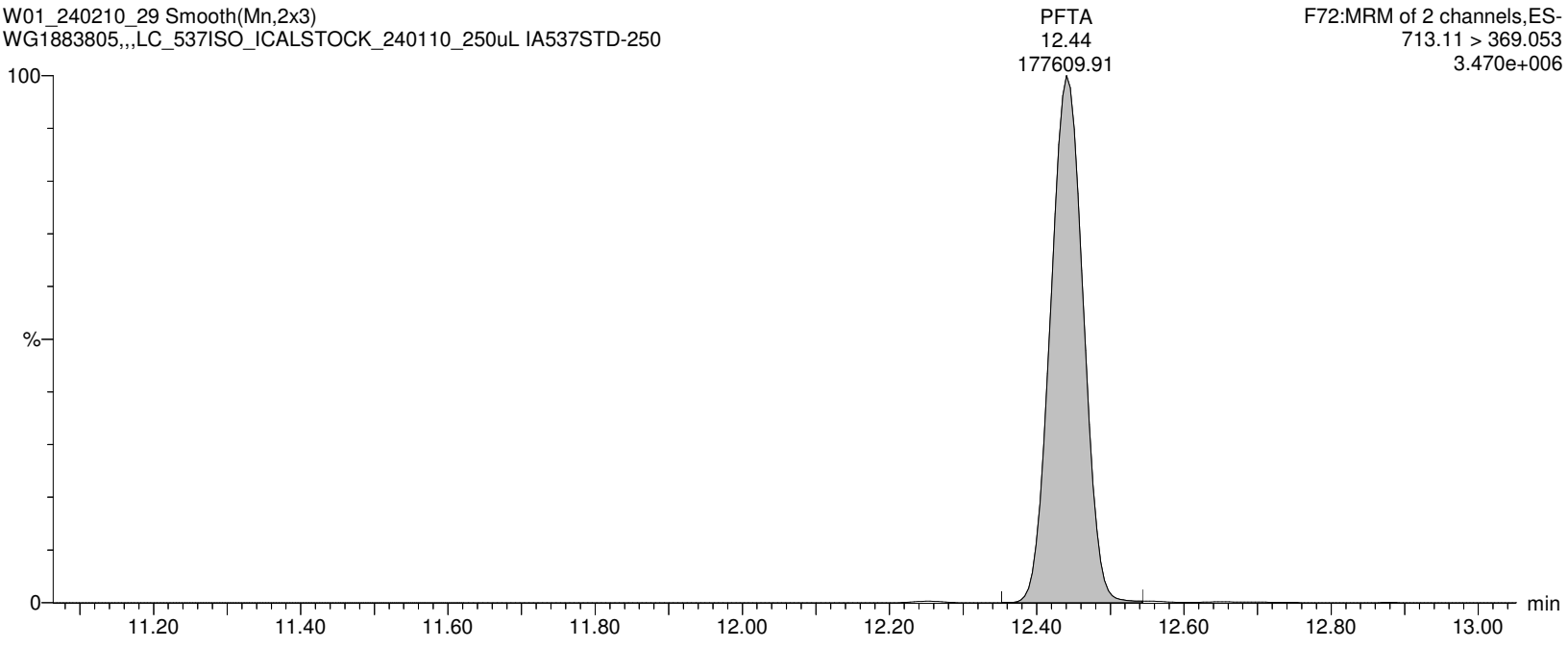

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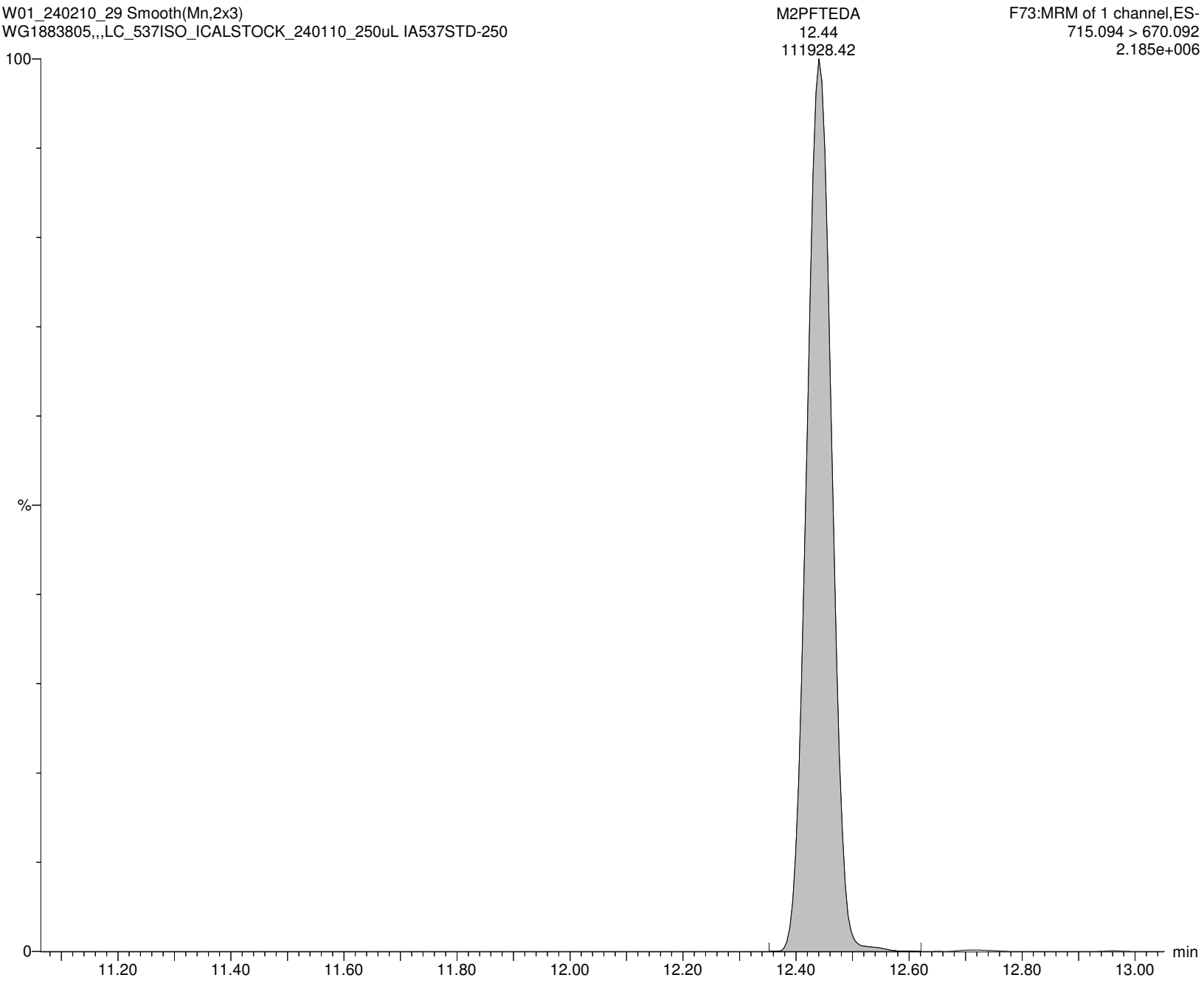

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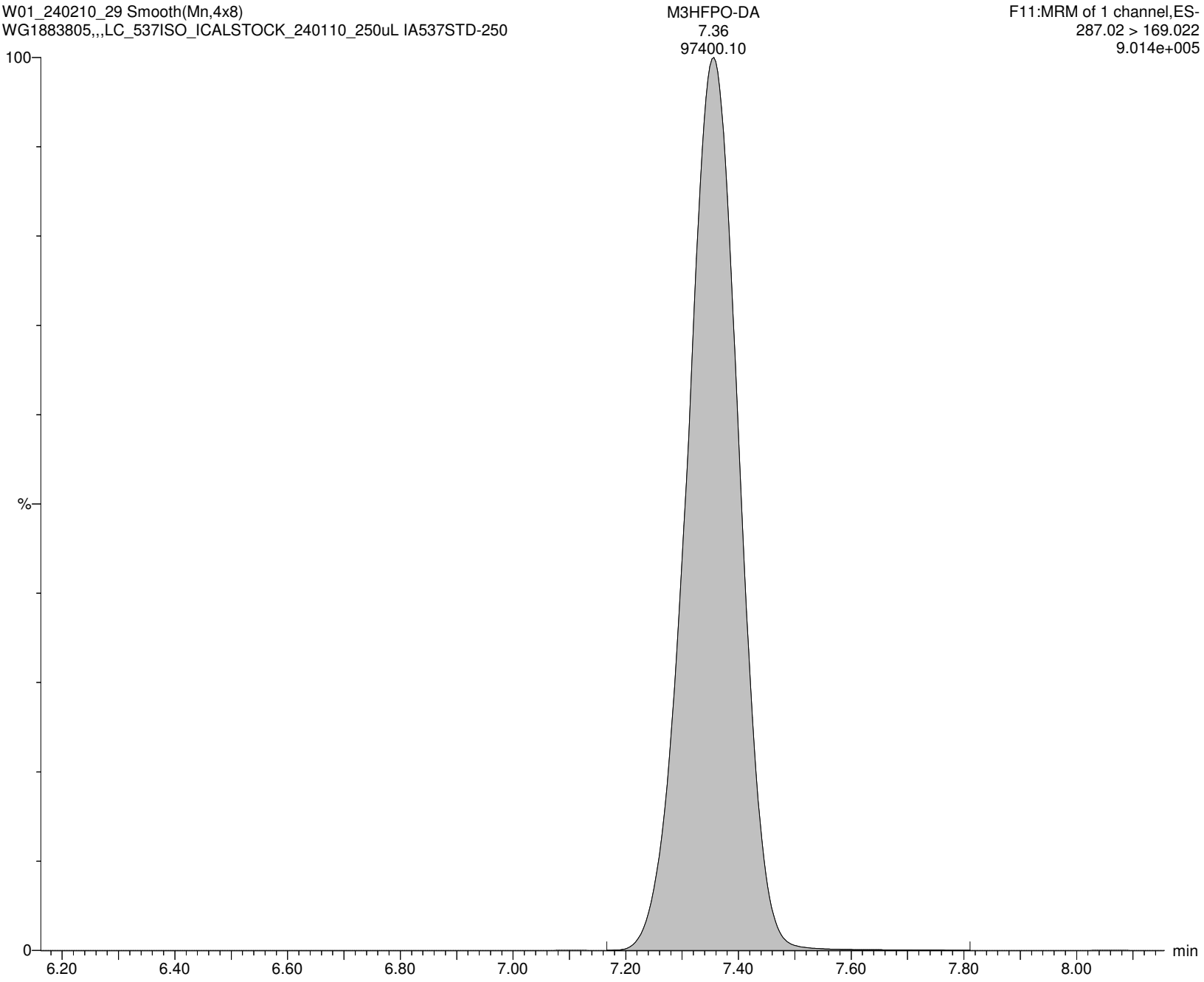

all concentration units in (ng/mL)

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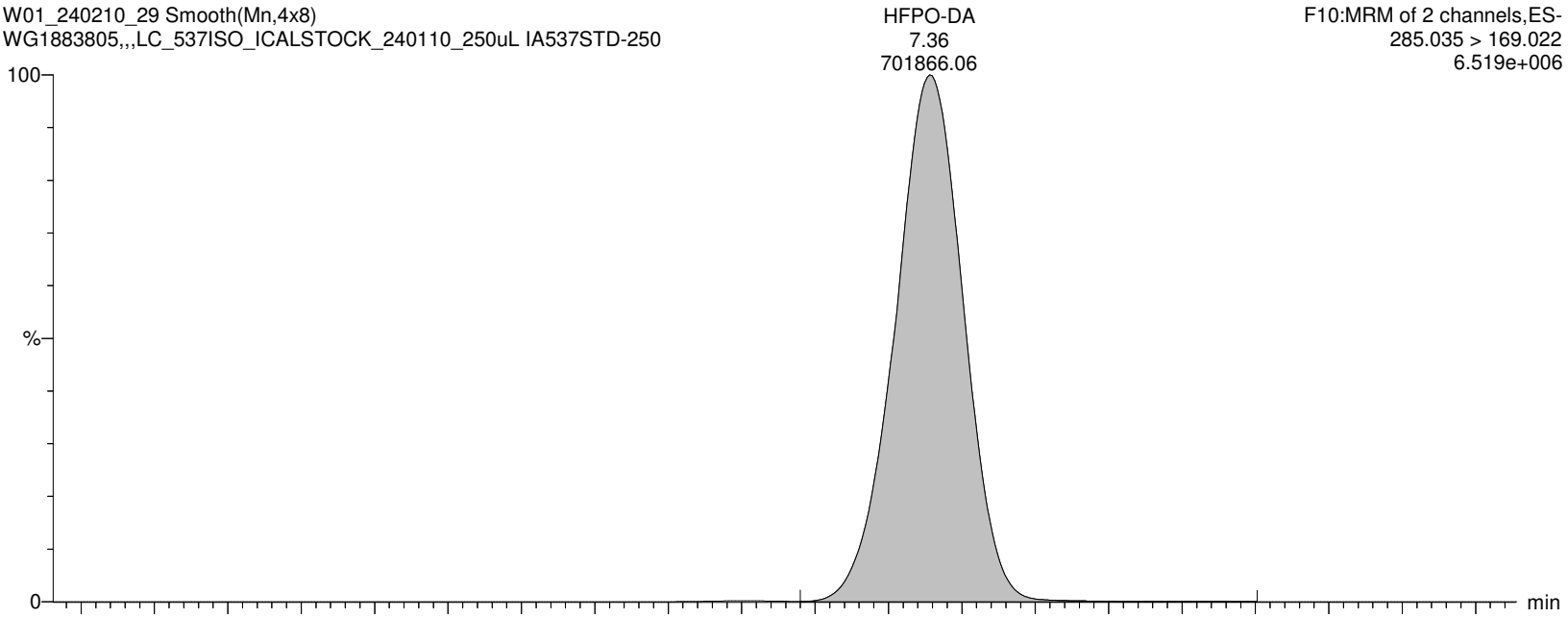
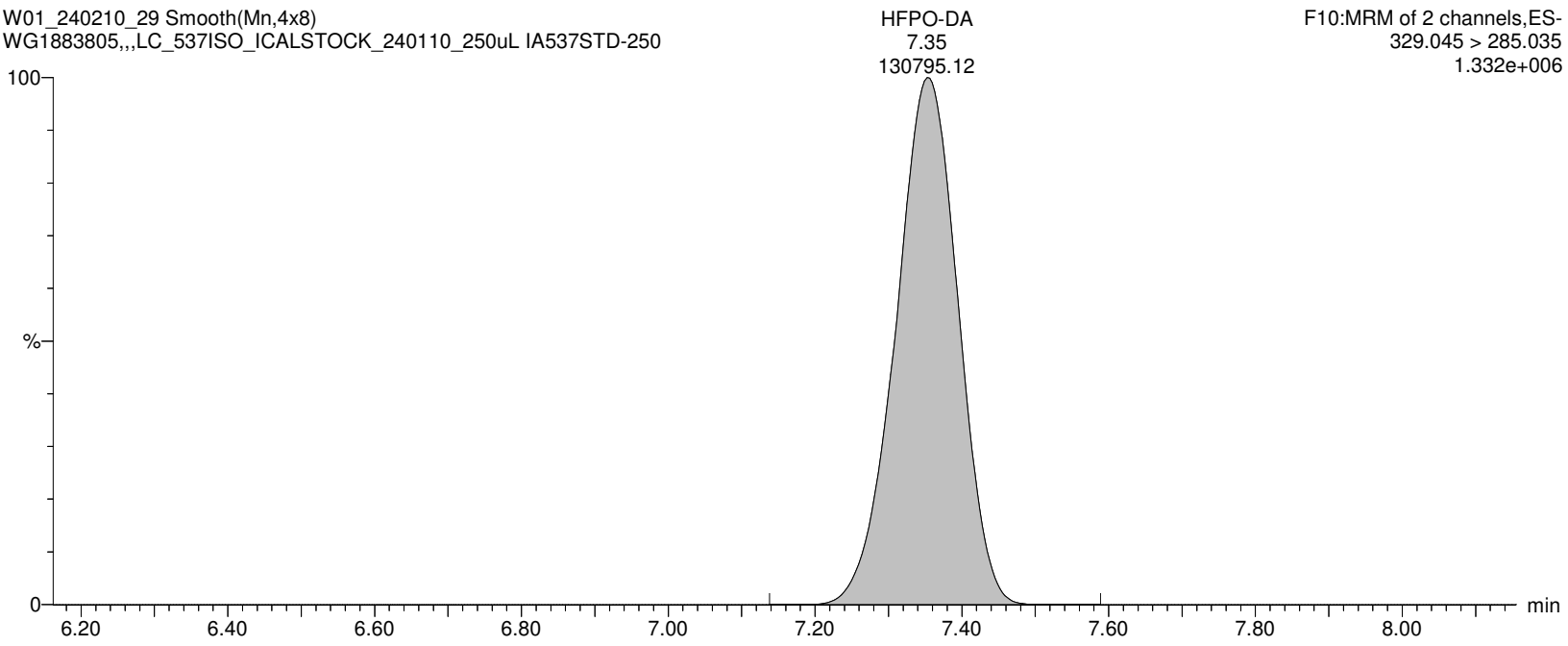
HFPO-DA





all concentration units in (ng/mL)

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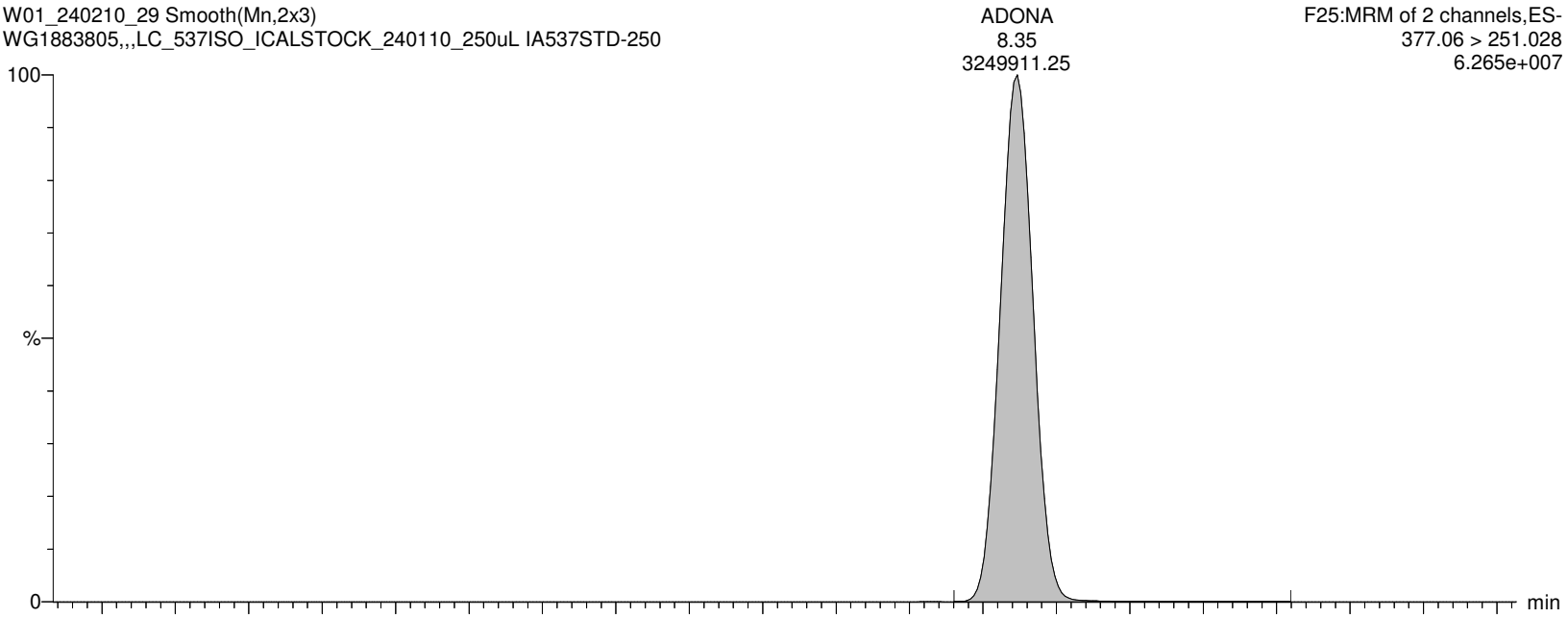

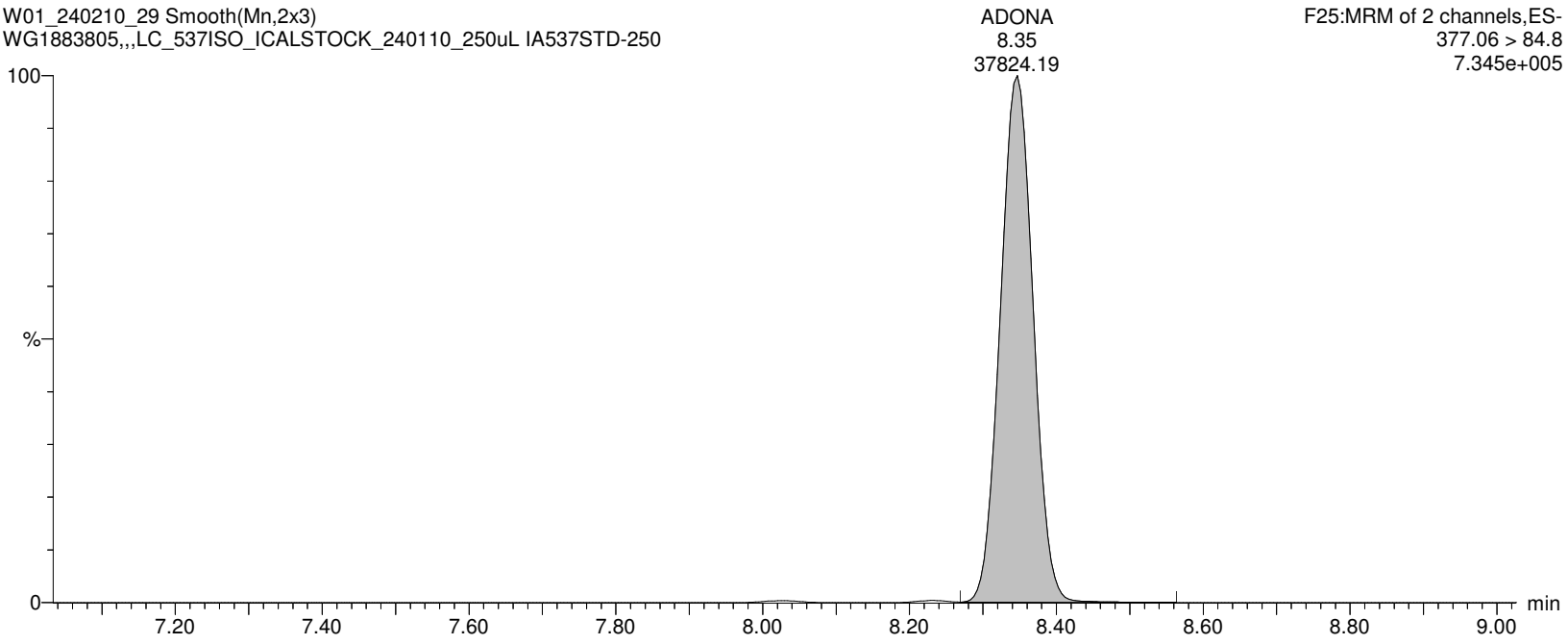

all concentration units in (ng/mL)

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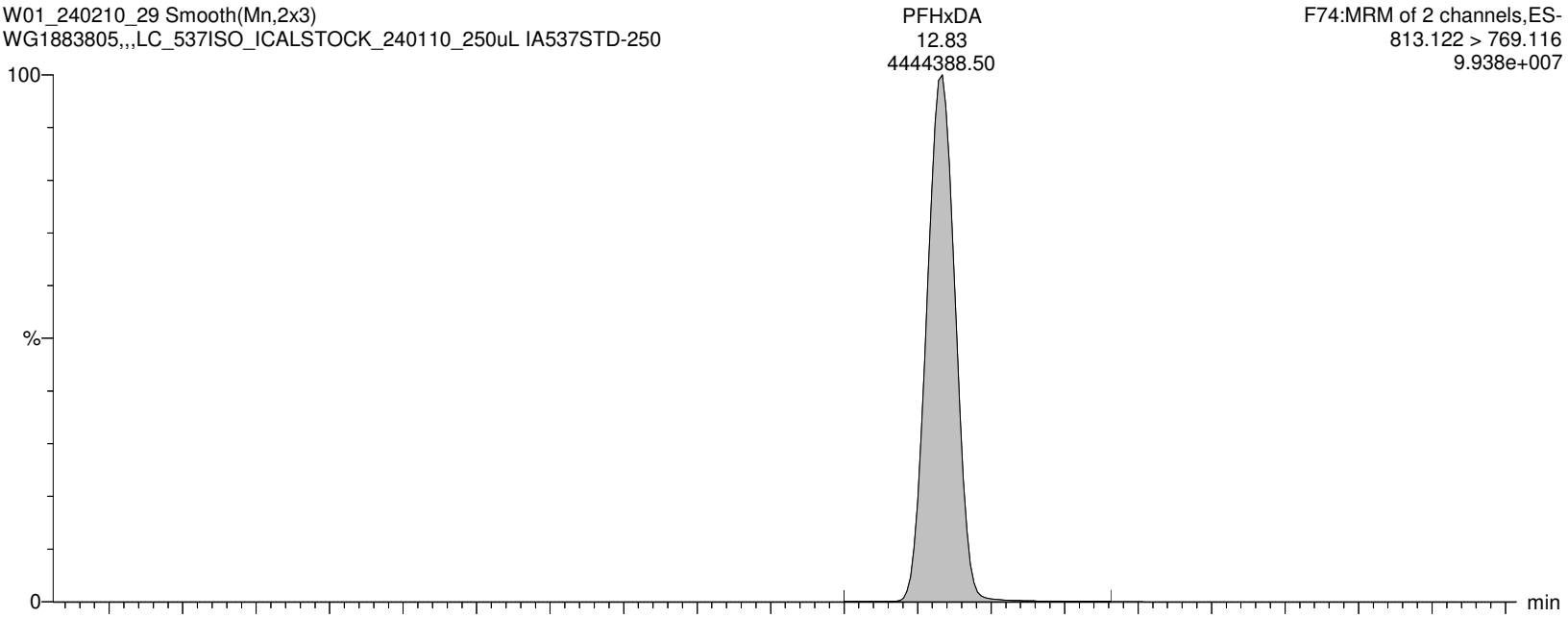

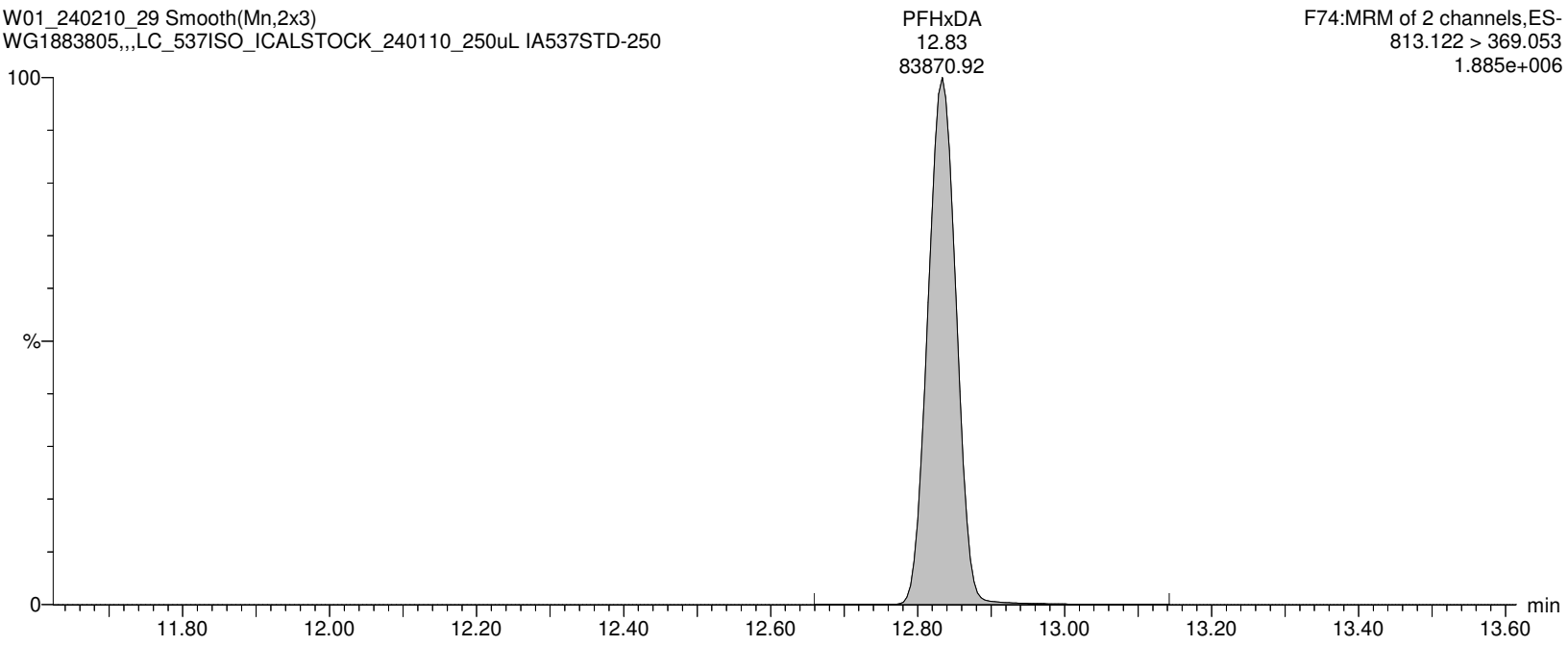

all concentration units in (ng/mL)

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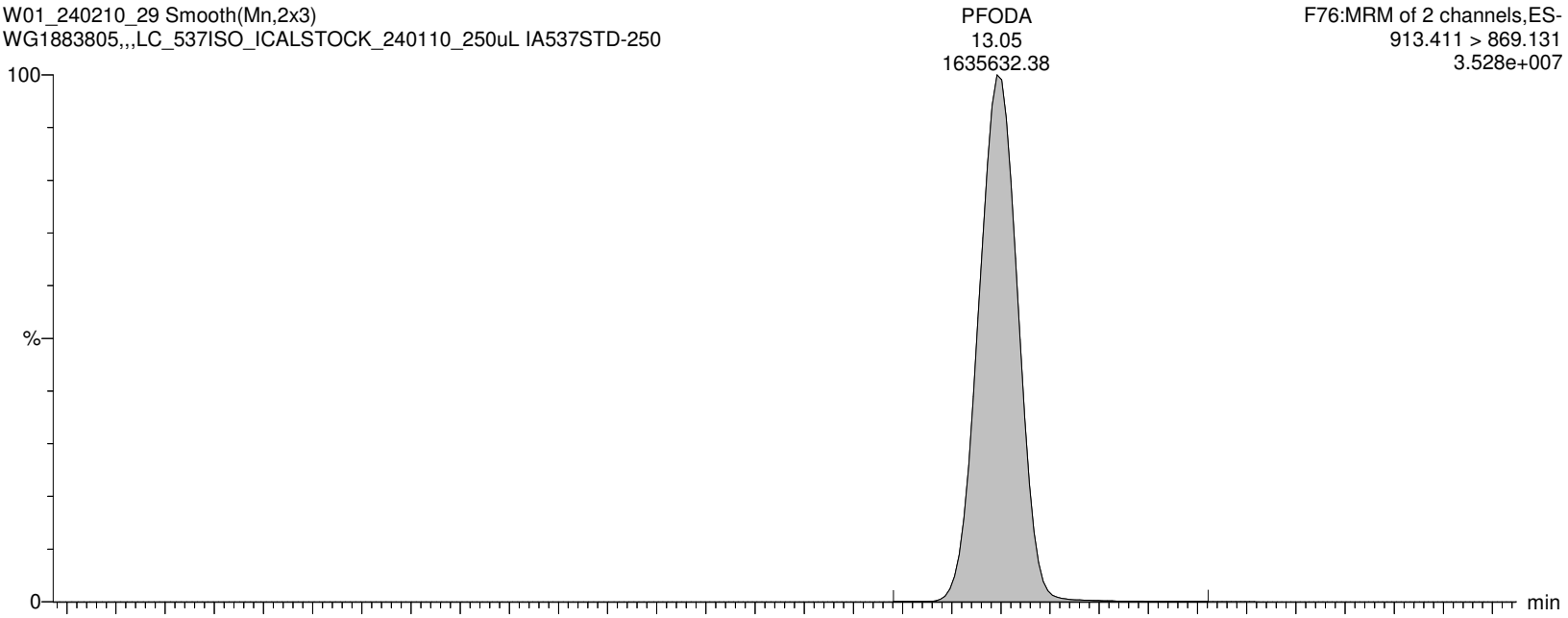

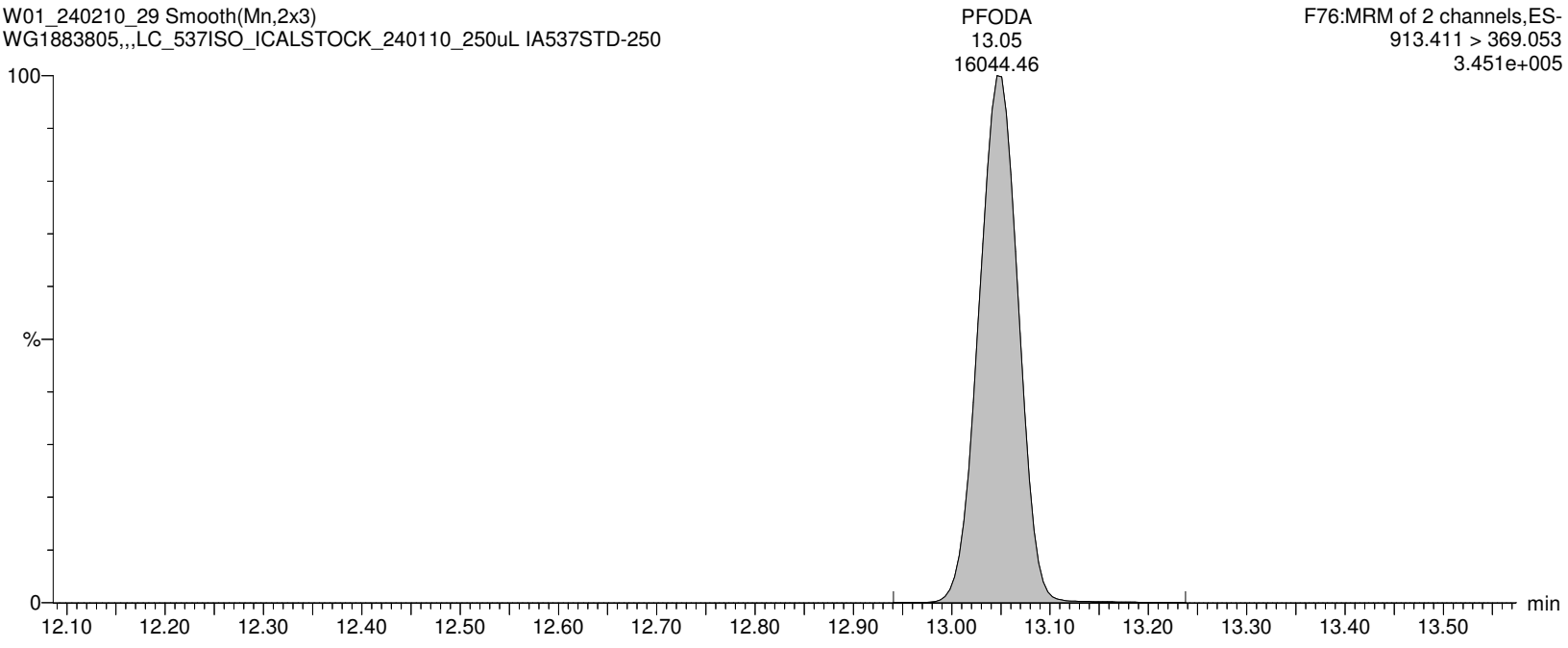

all concentration units in (ng/mL)

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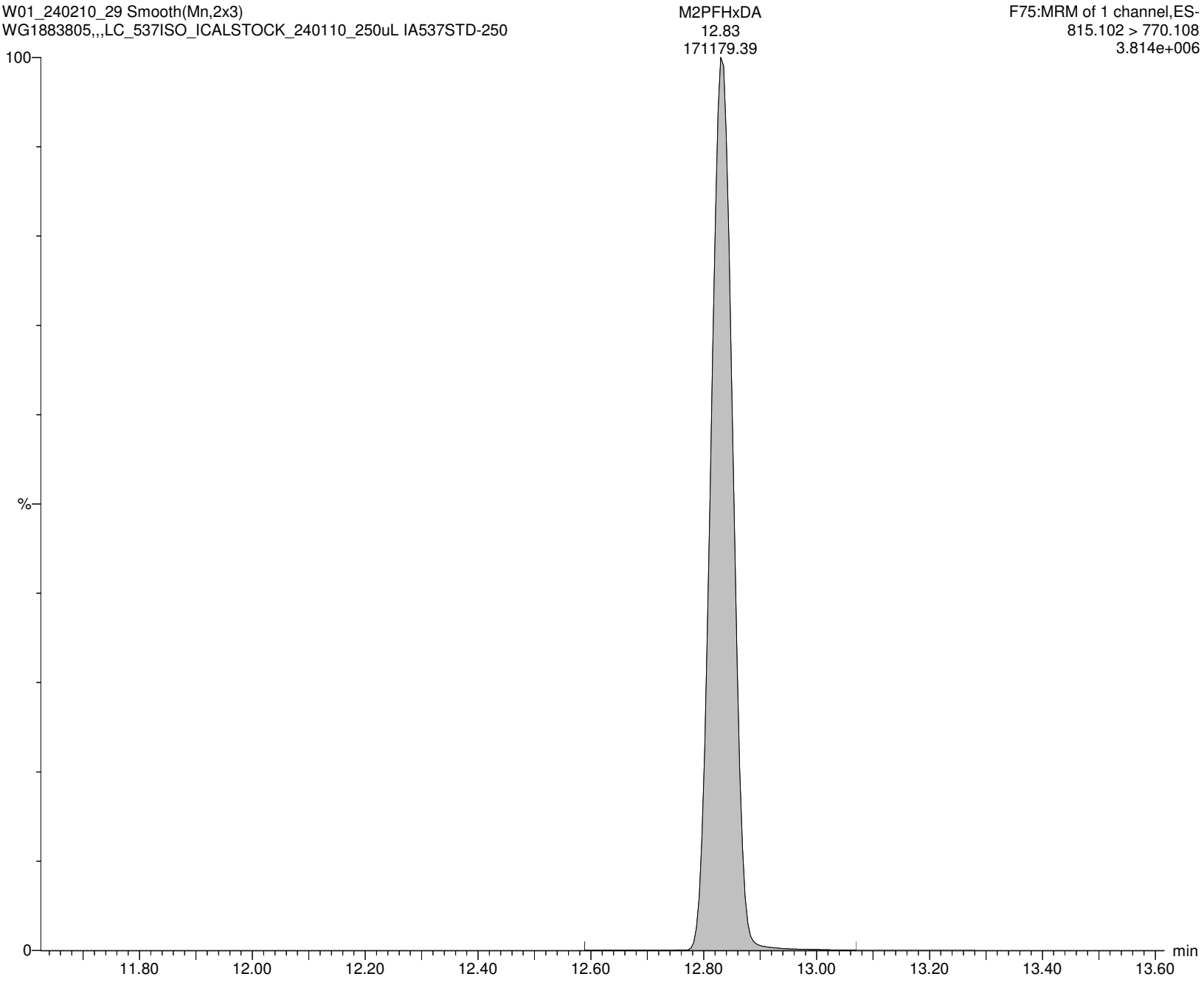

all concentration units in (ng/mL)

Alpha Analytical Inc.
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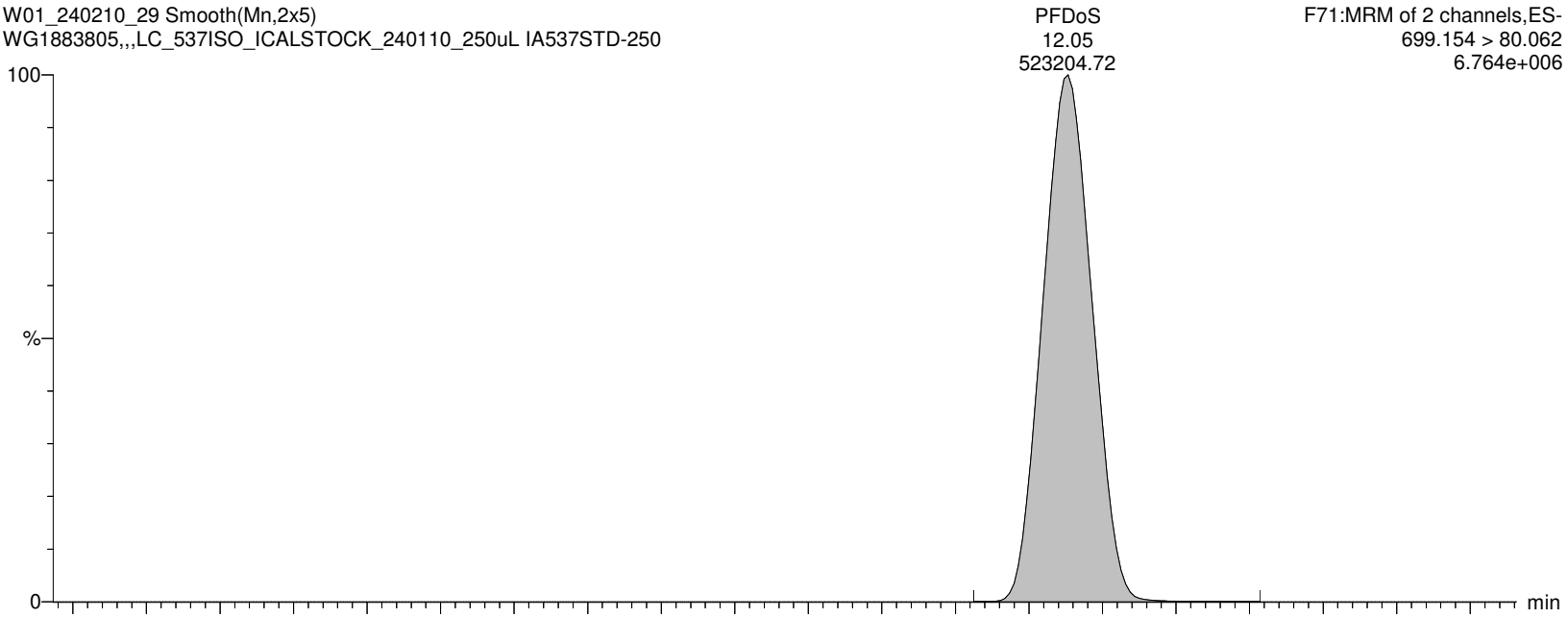

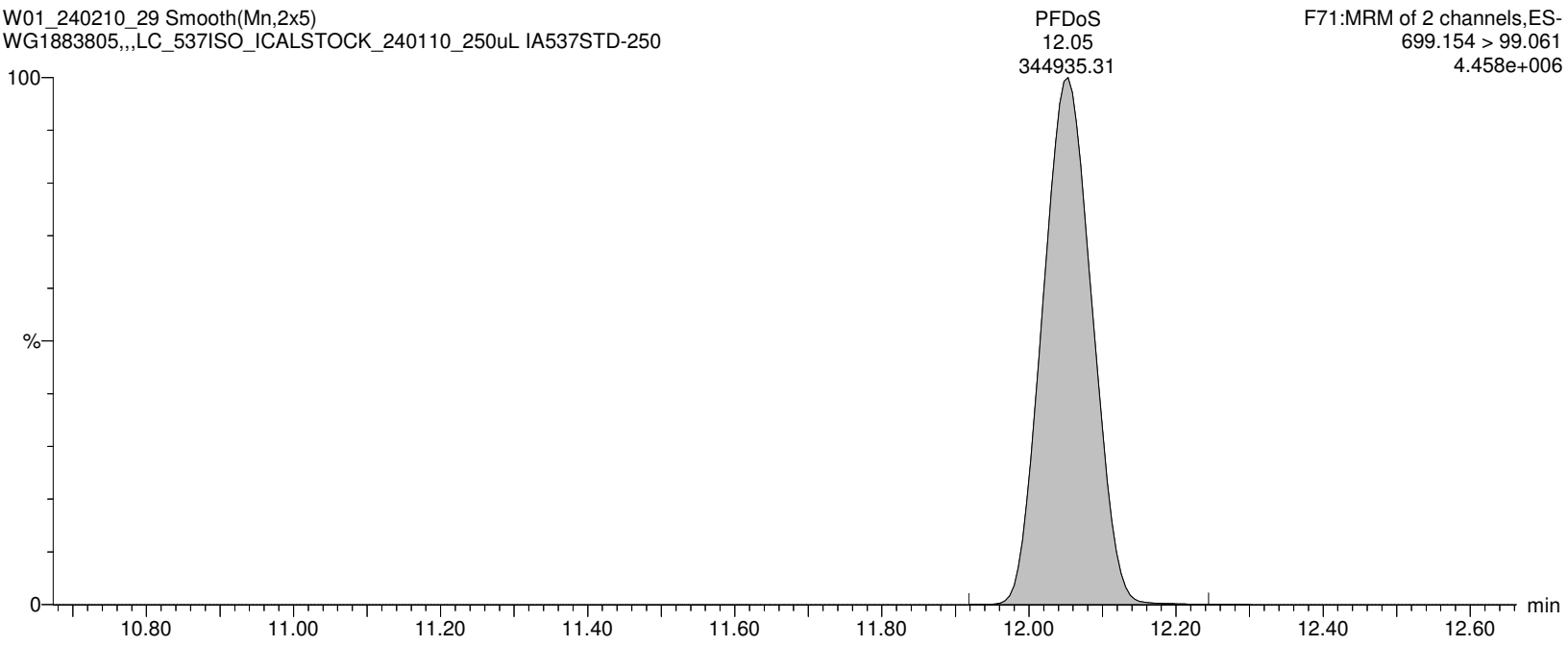

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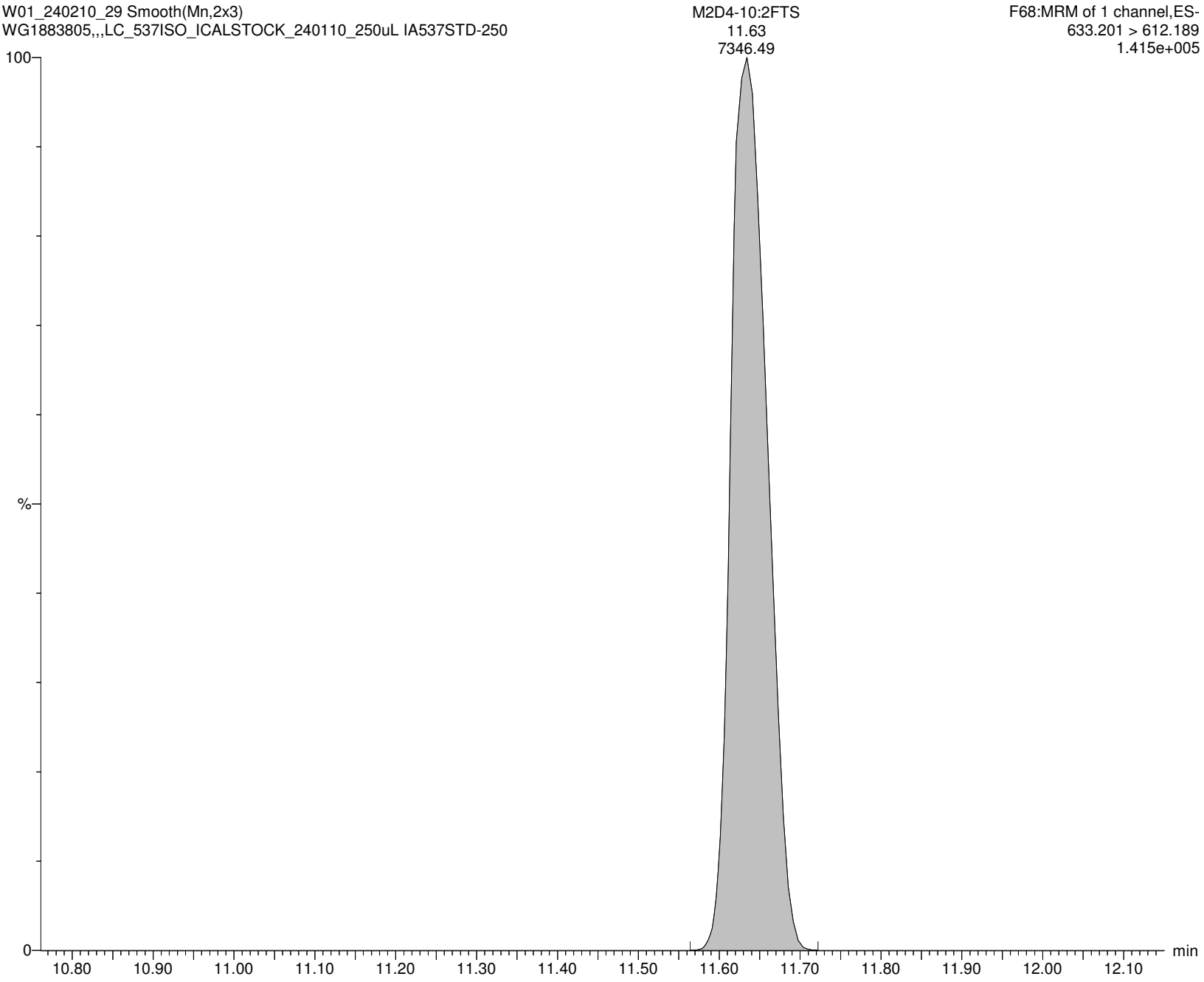

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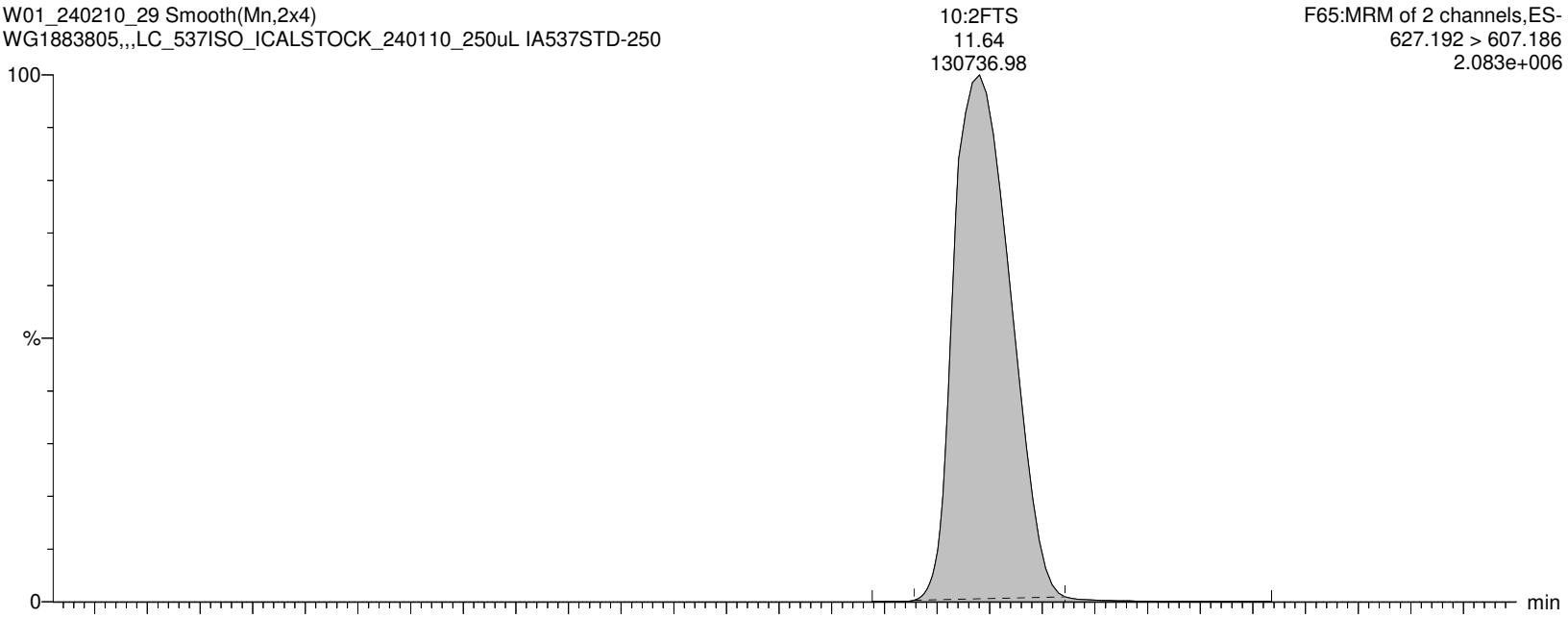
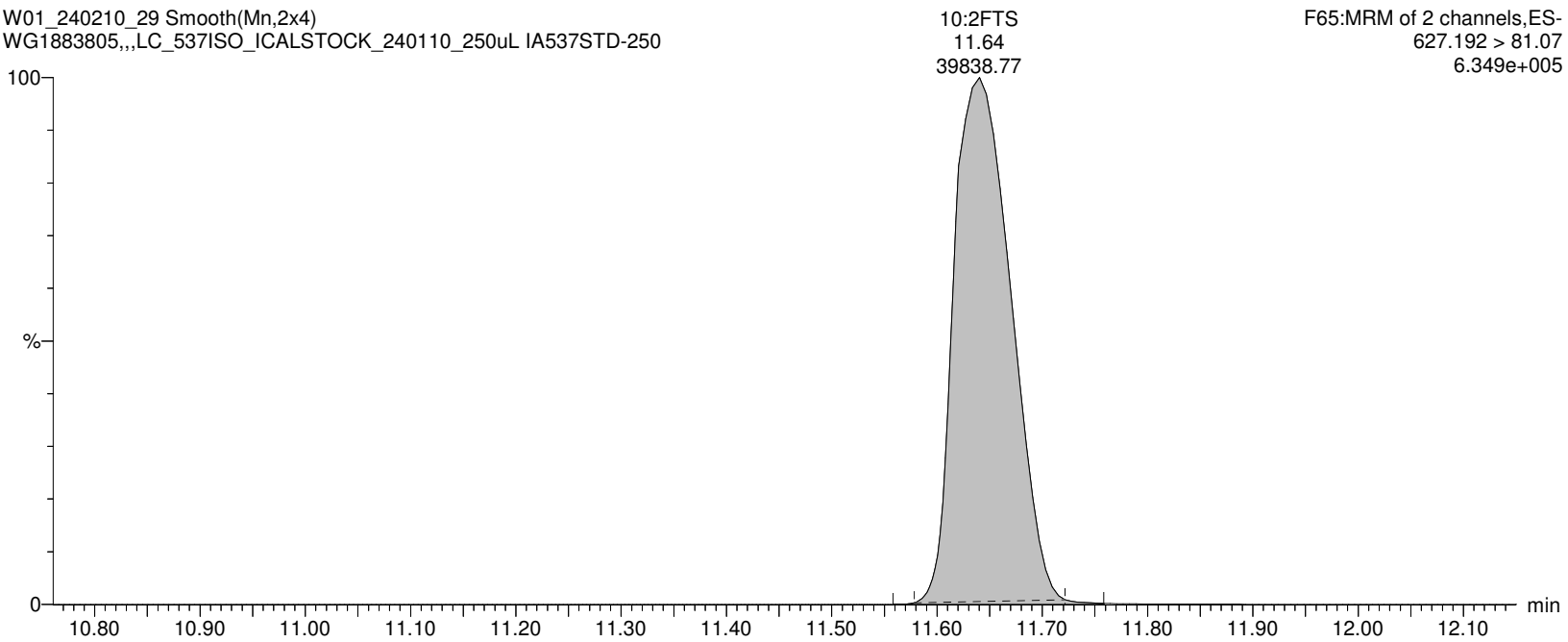
10:2FTS





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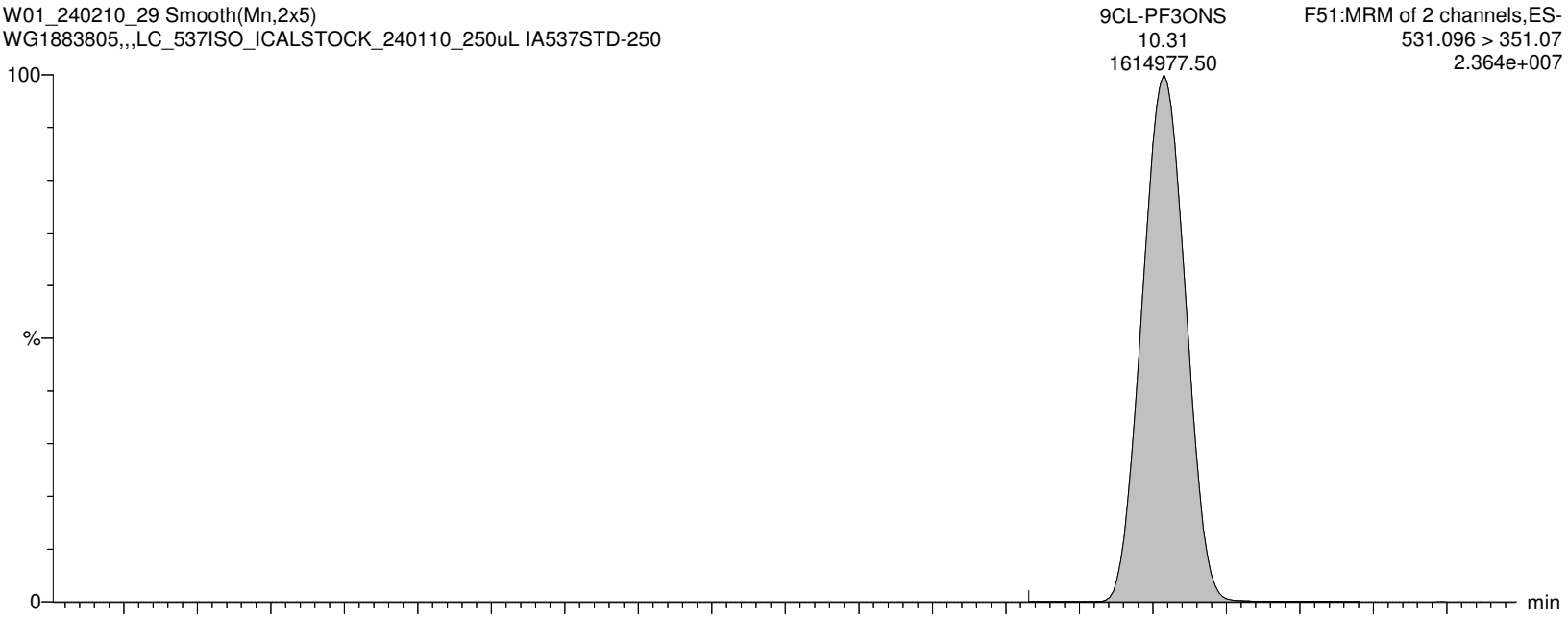
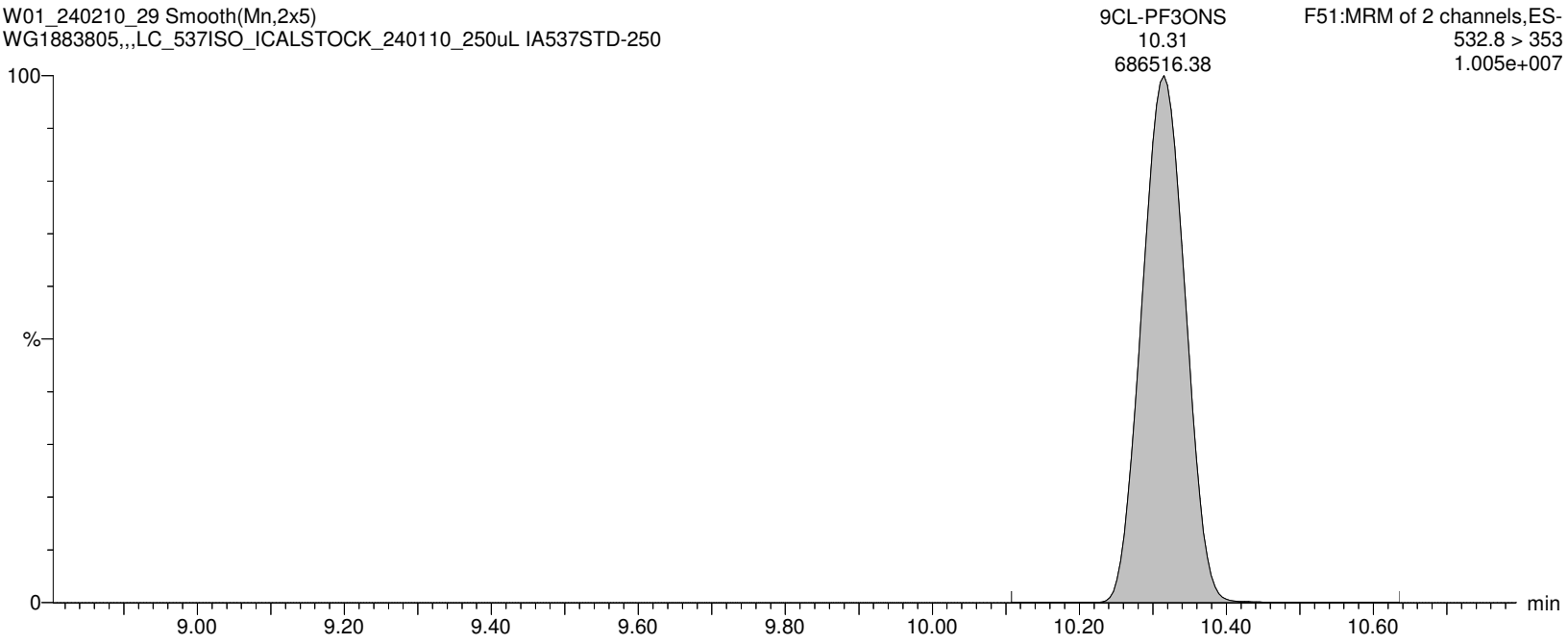
9CL-PF3ONS





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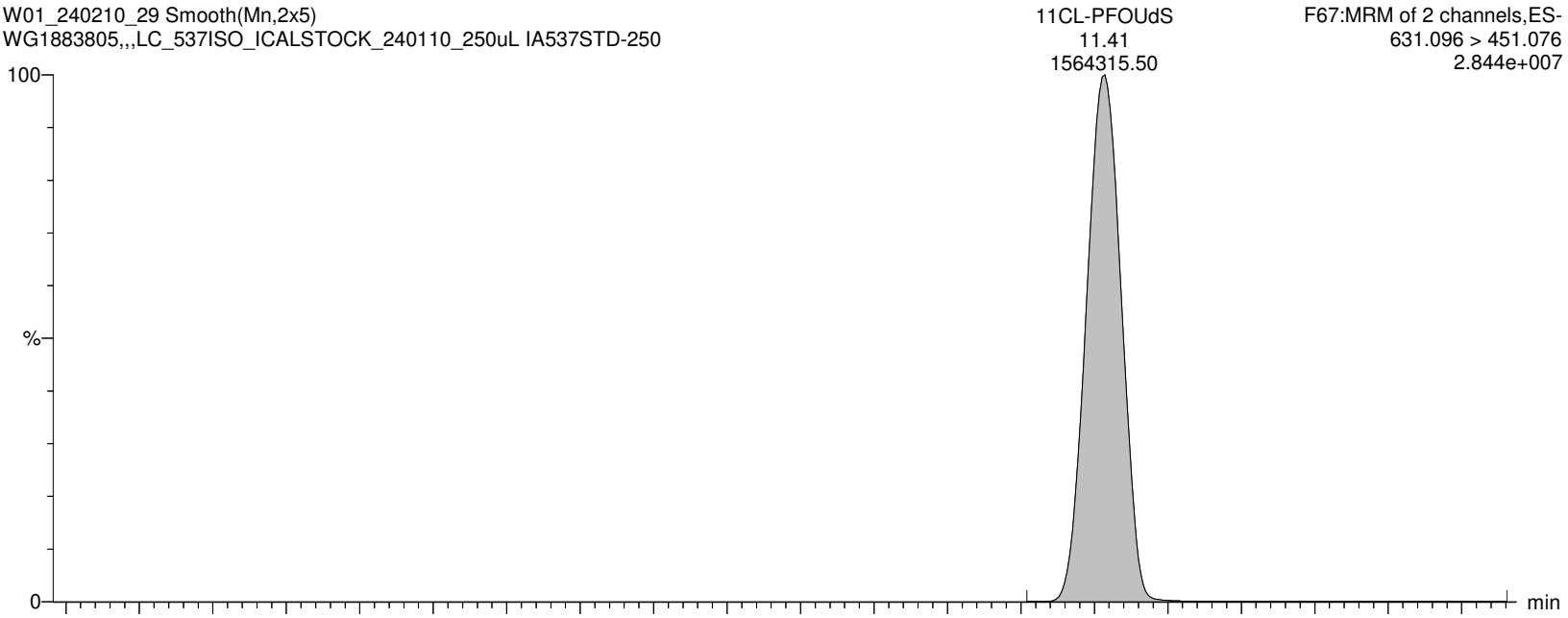
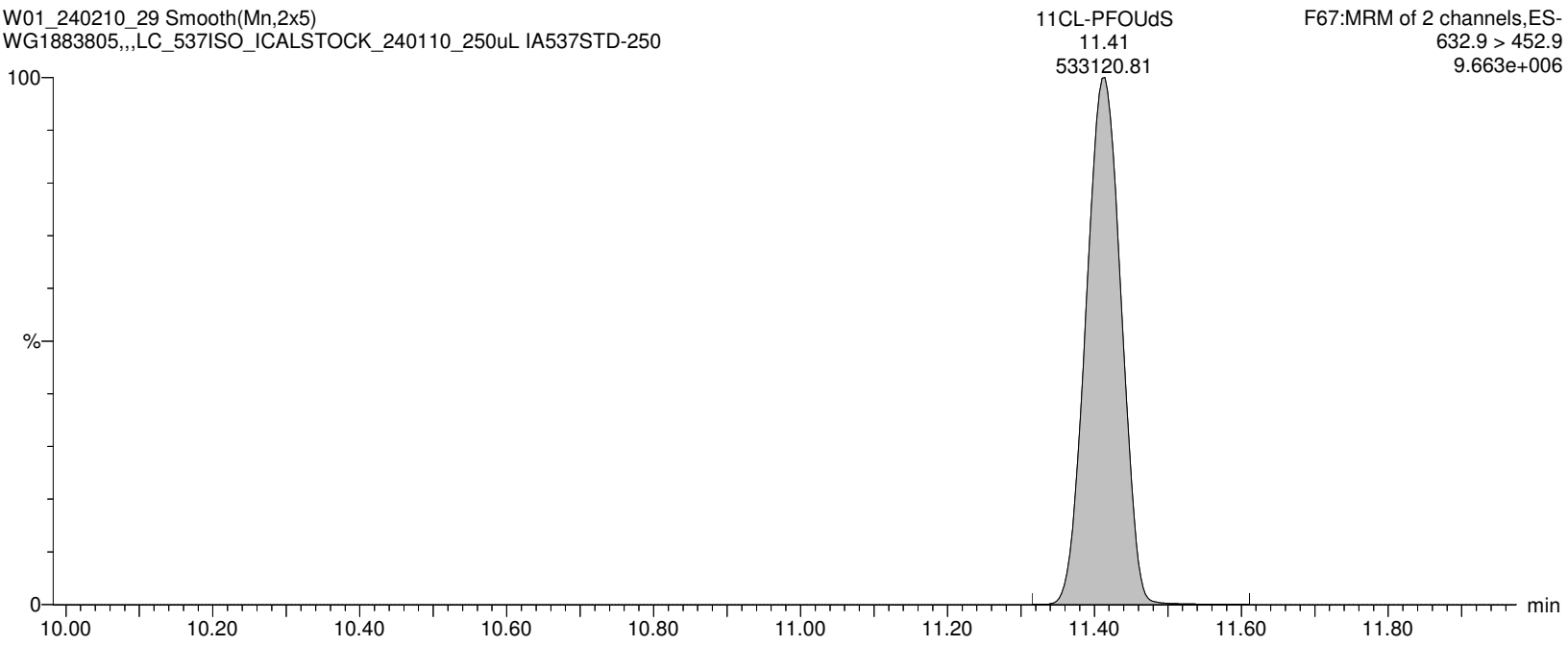
11CL-PFOUdS





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User: LCMS01:SG
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
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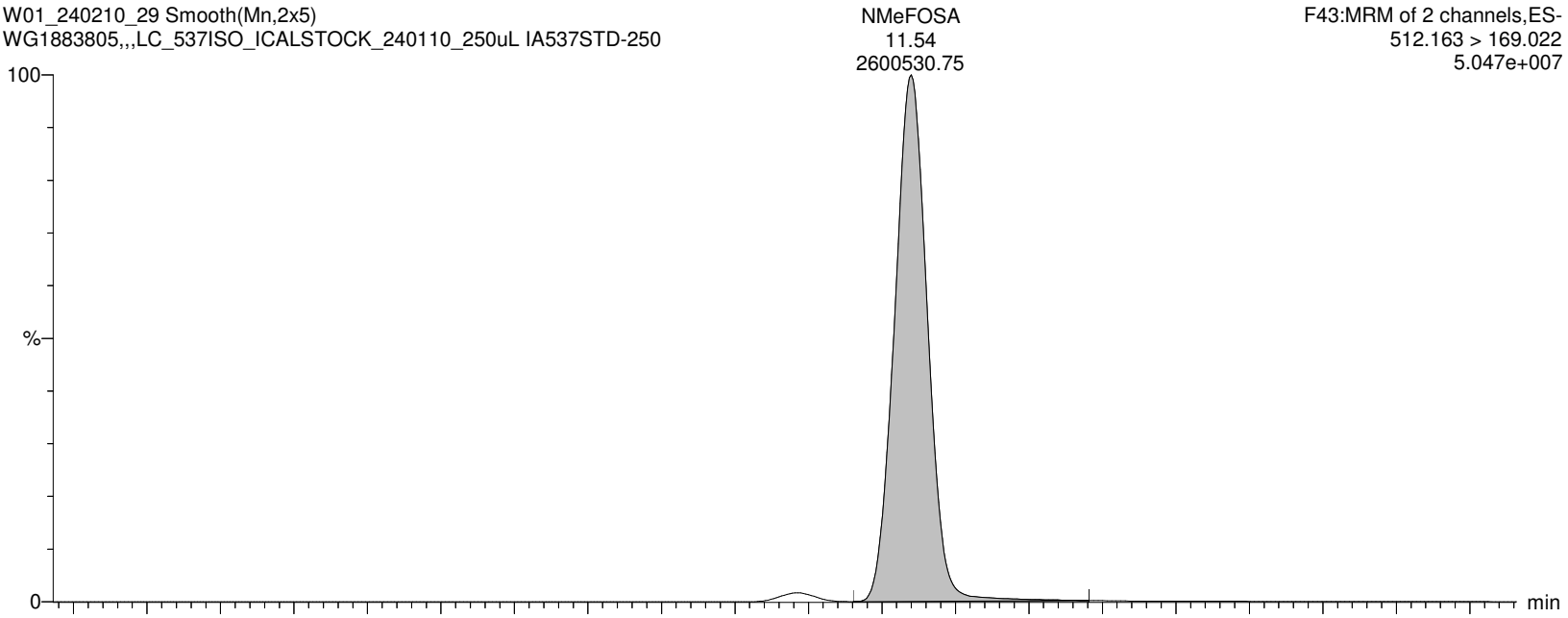

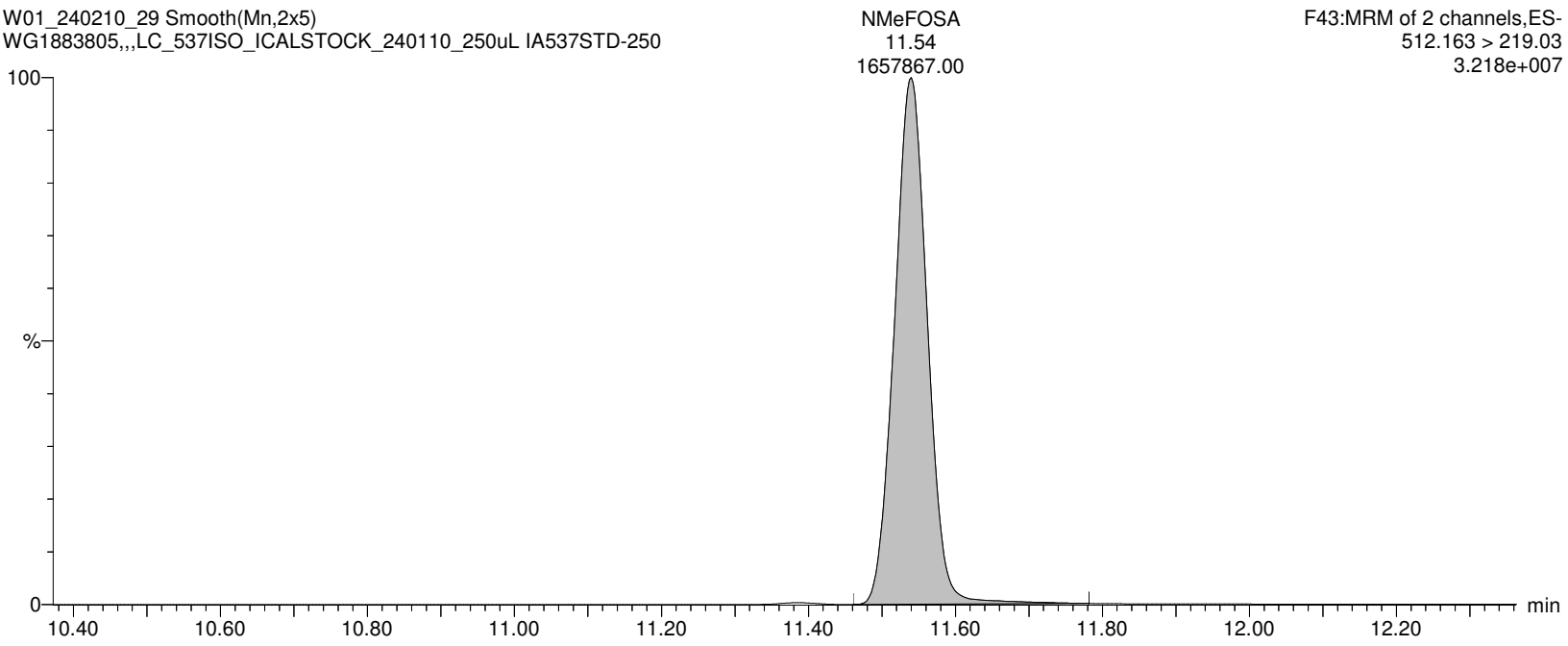

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICAL.qld
Last Altered: Monday, February 12, 2024 15:21:51 Eastern Standard Time
Printed: Tuesday, February 13, 2024 14:41:26 Eastern Standard Time

Name: W01_240210_29
ID: IA537STD-250
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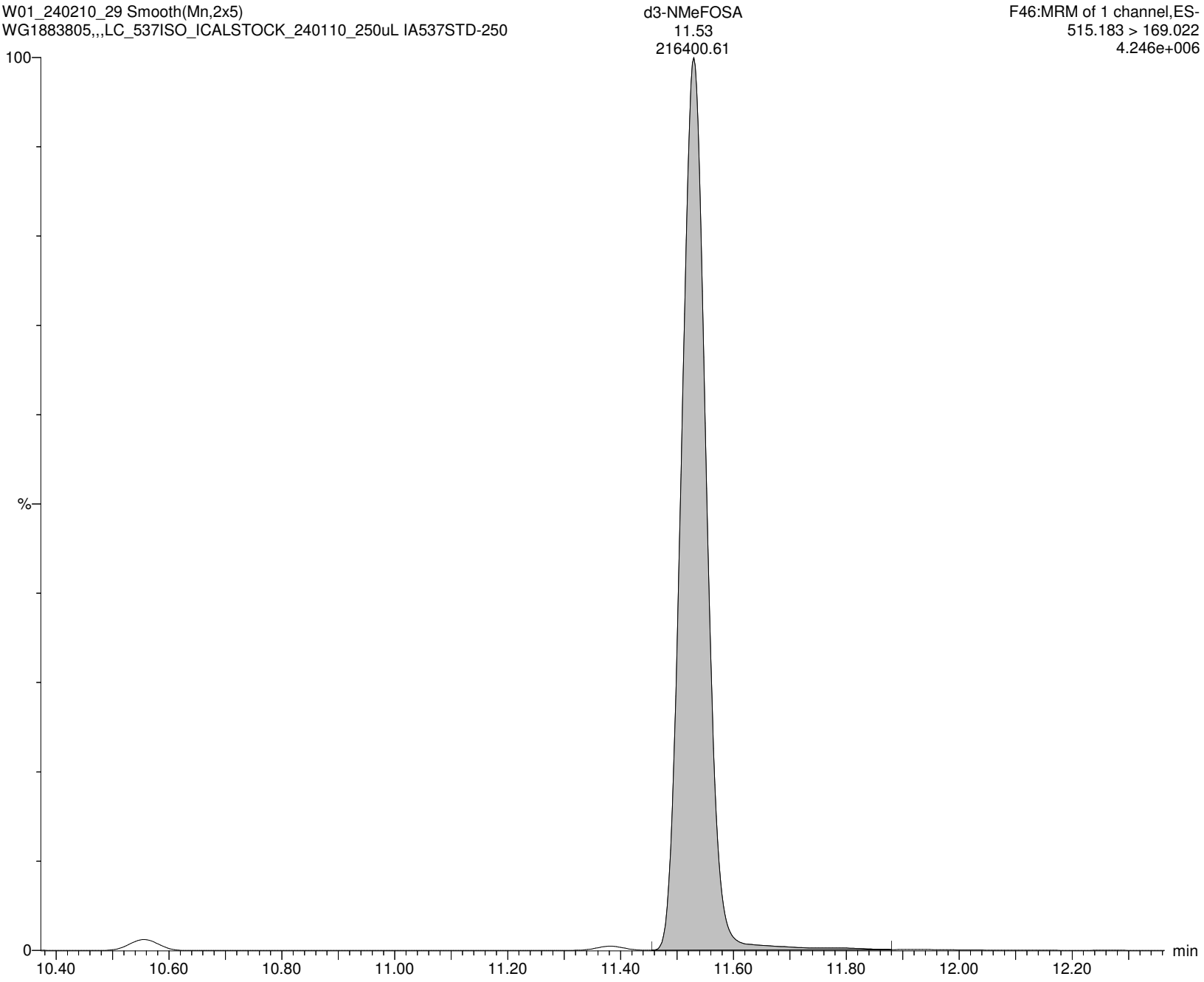

all concentration units in (ng/mL)

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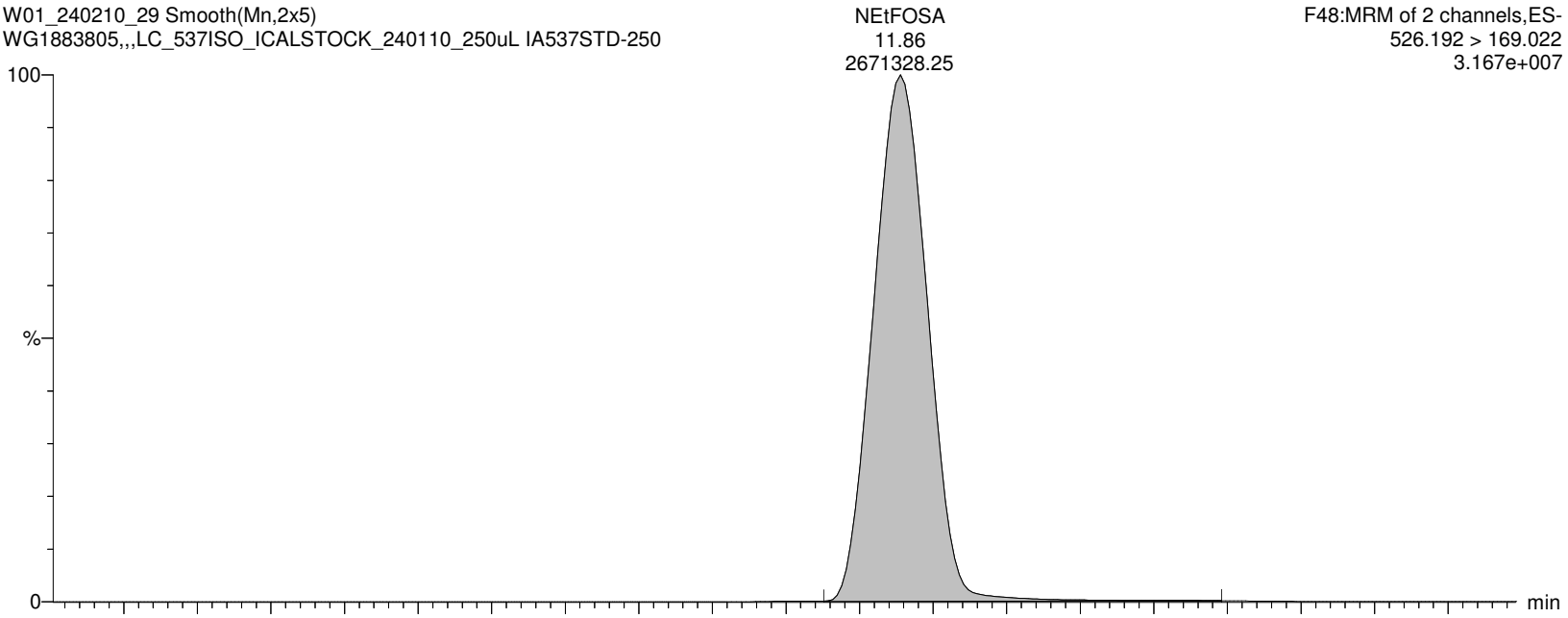

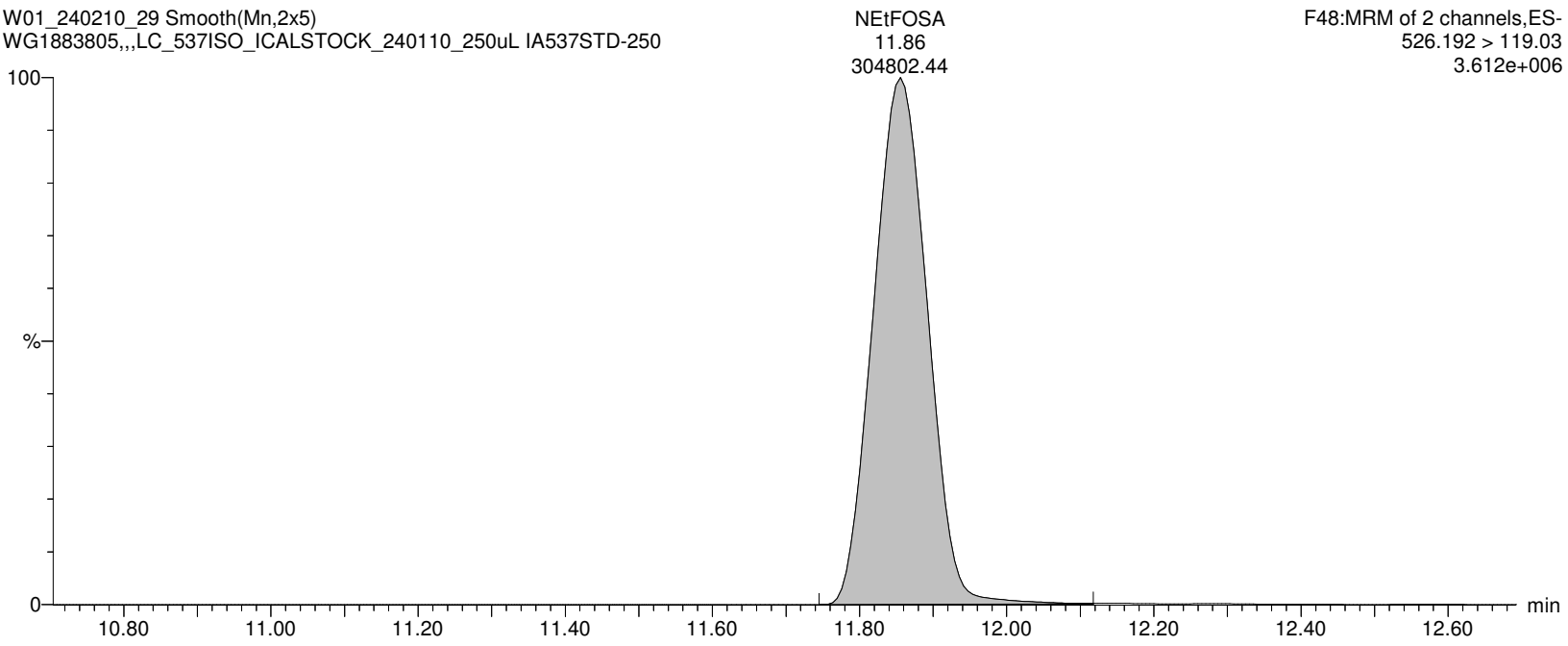

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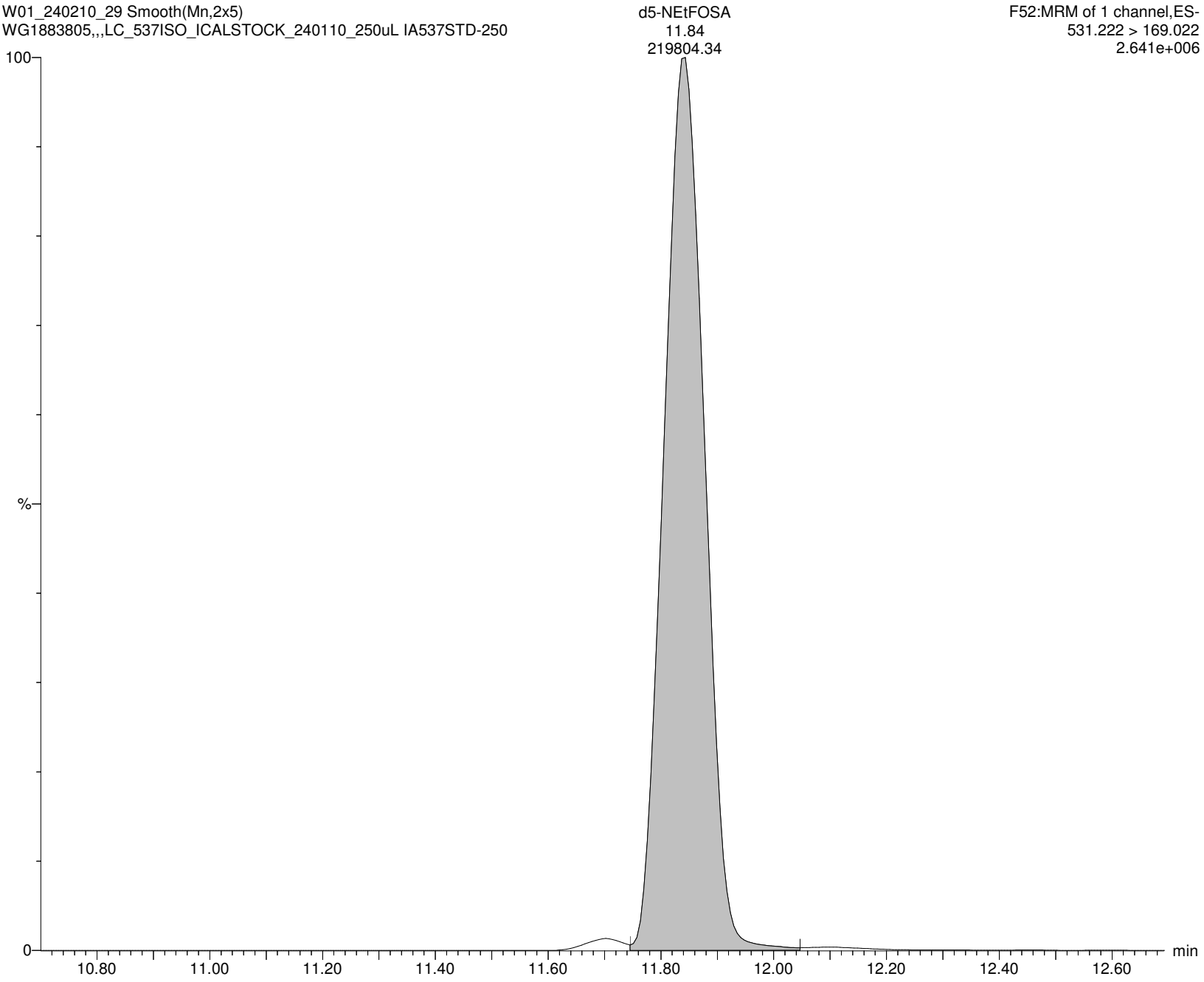
d5-NEtFOSA



all concentration units in (ng/mL)

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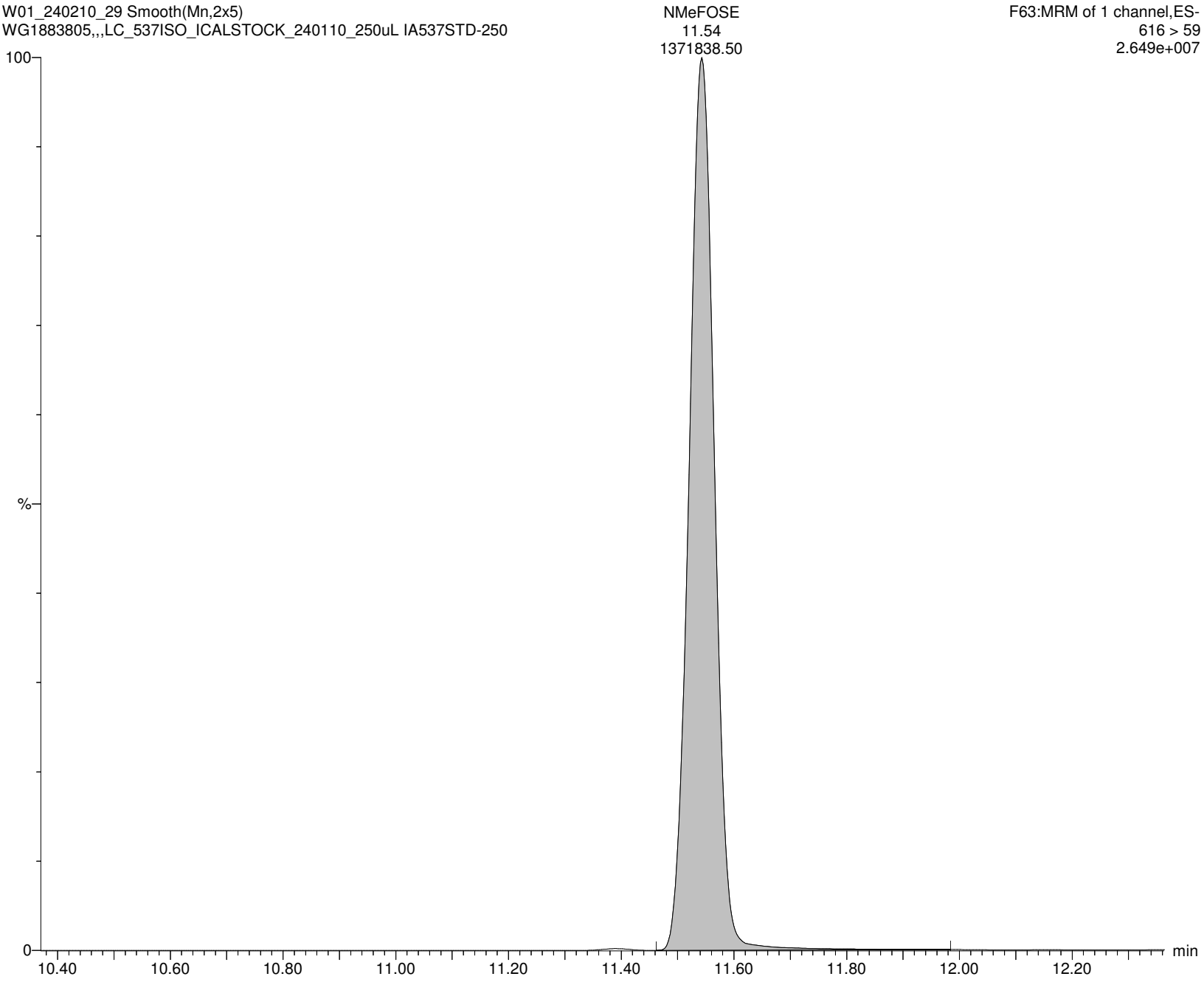
NMeFOSE



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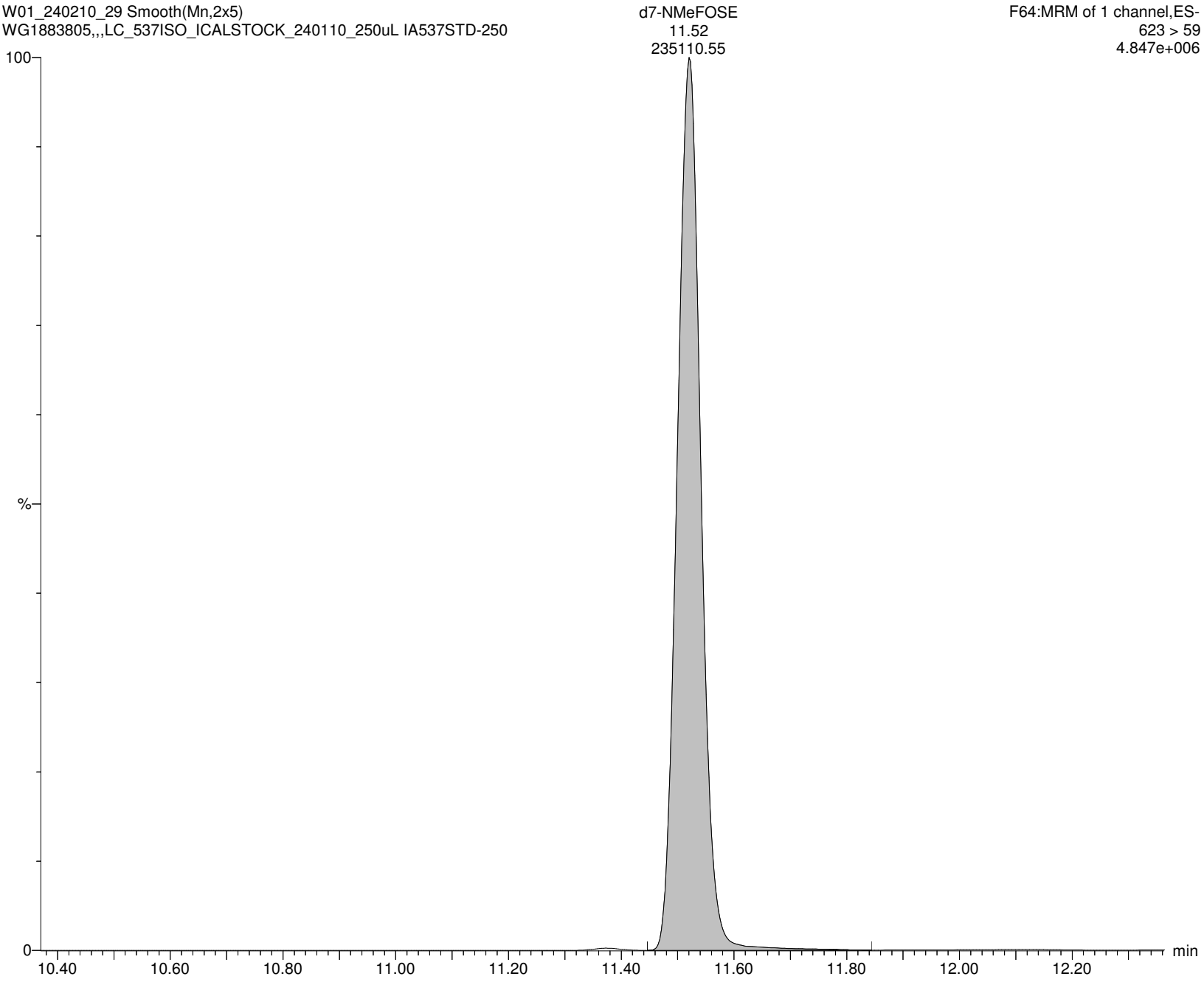
d7-NMeFOSE



all concentration units in (ng/mL)

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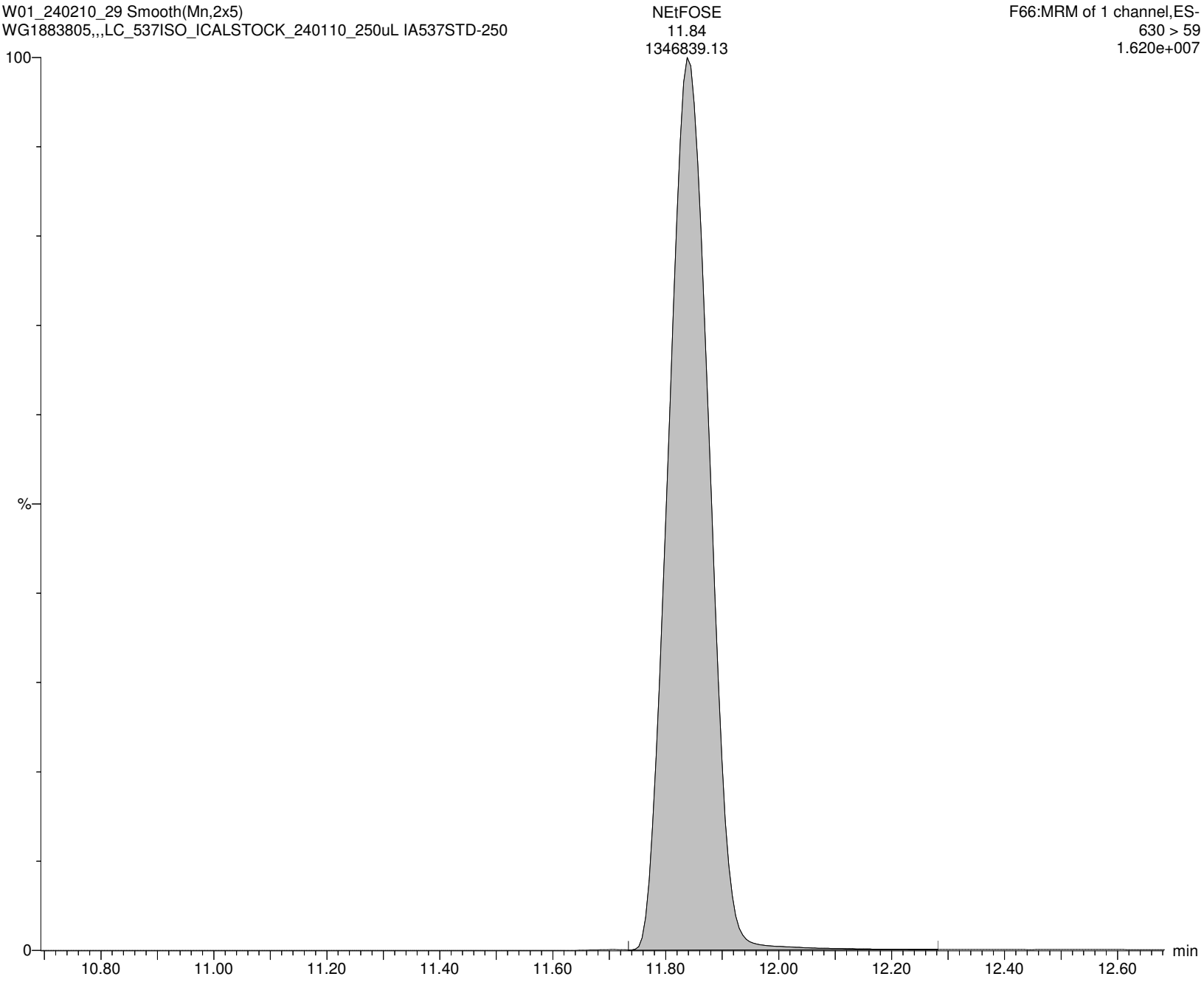
NEtFOSE



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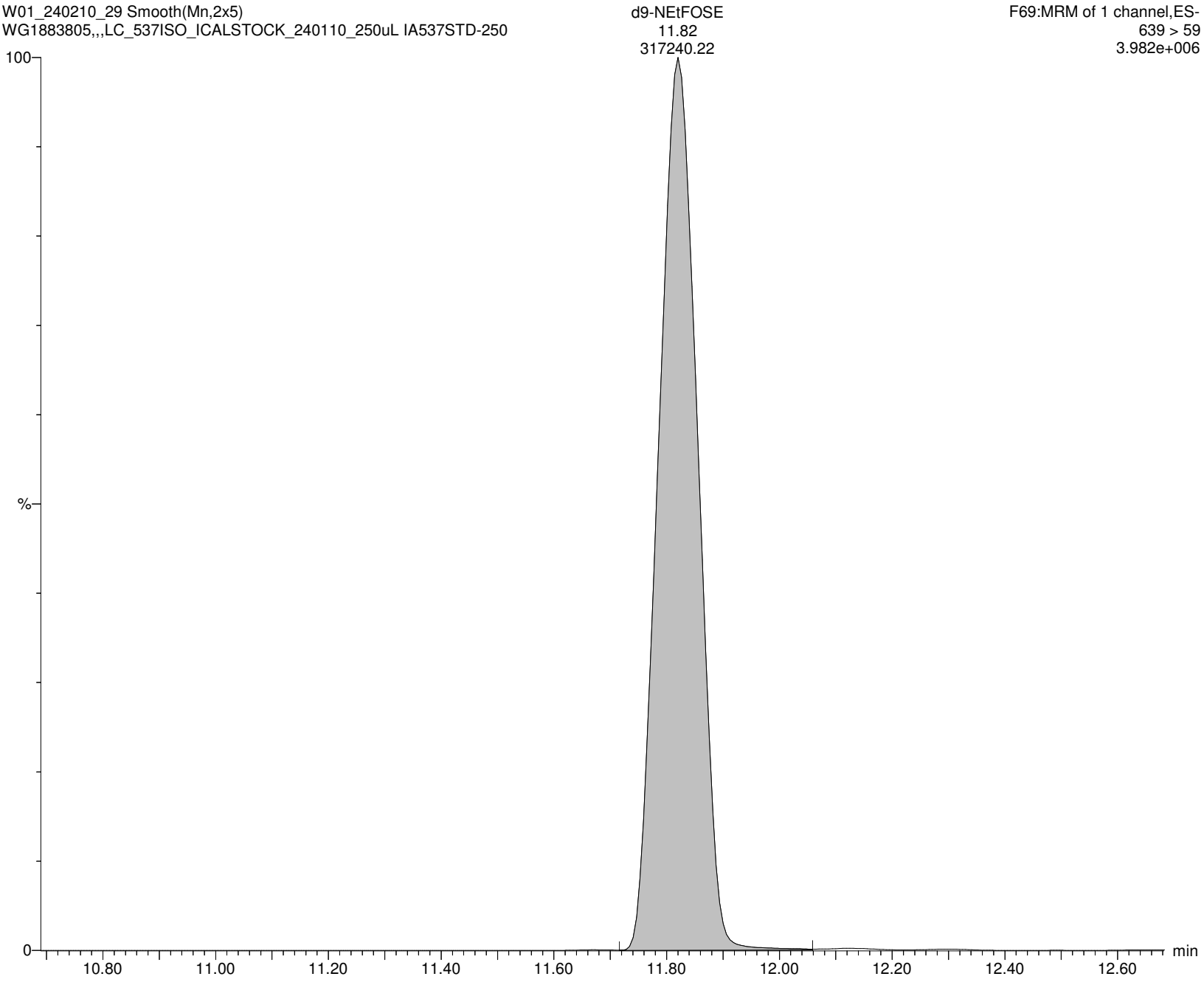
d9-NEtFOSE



all concentration units in (ng/mL)

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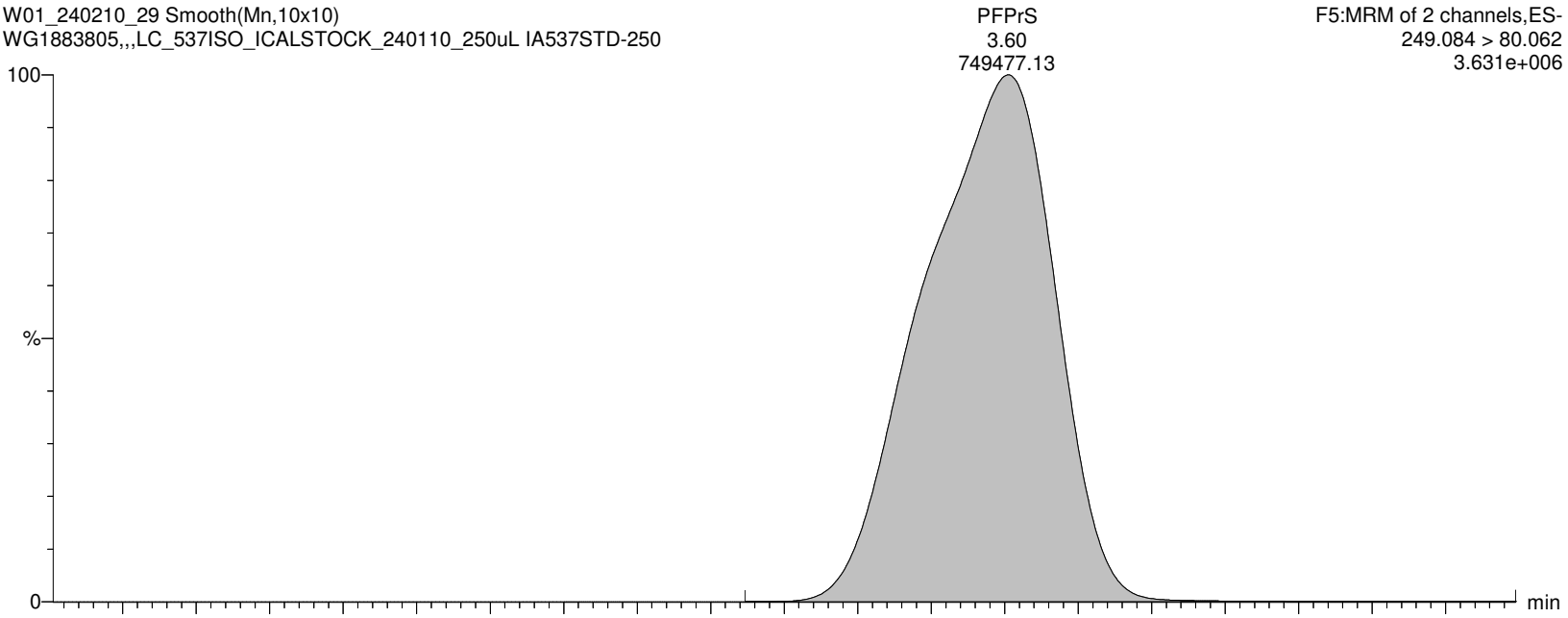

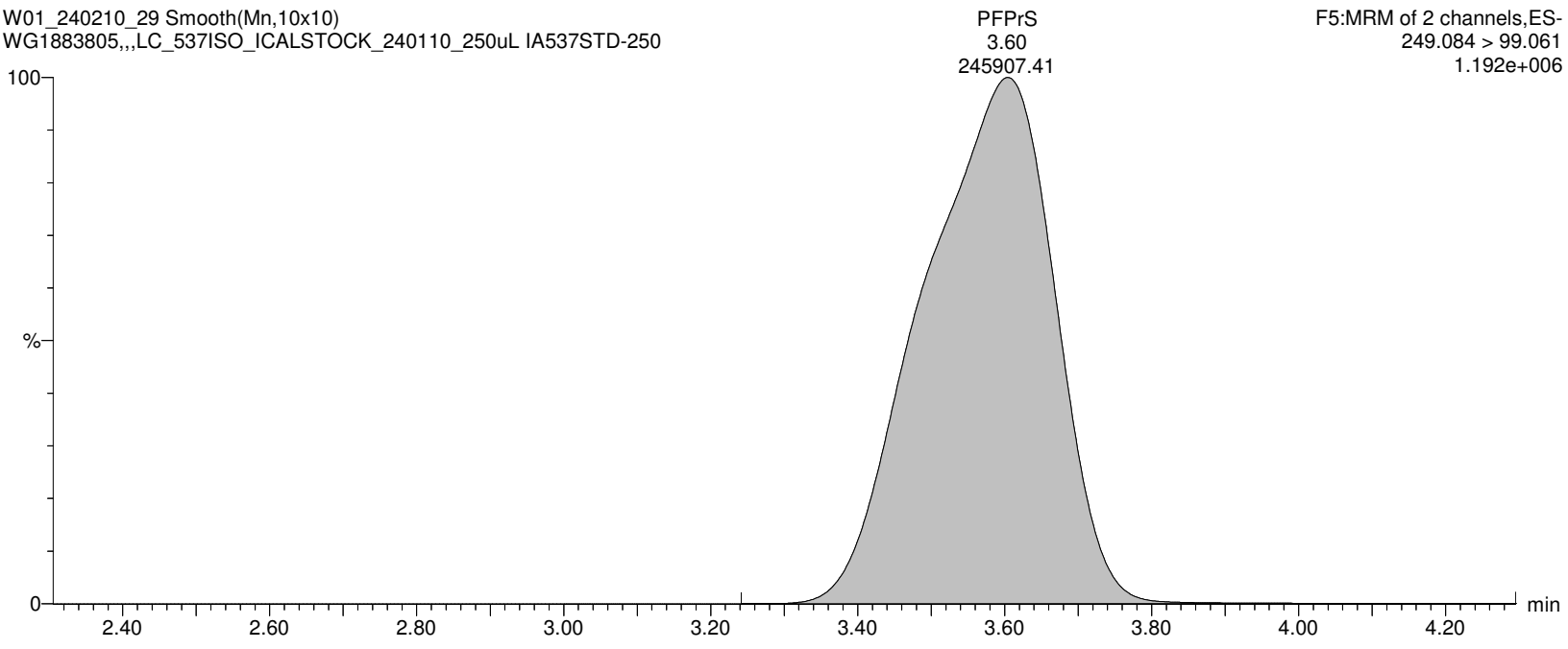

all concentration units in (ng/mL)

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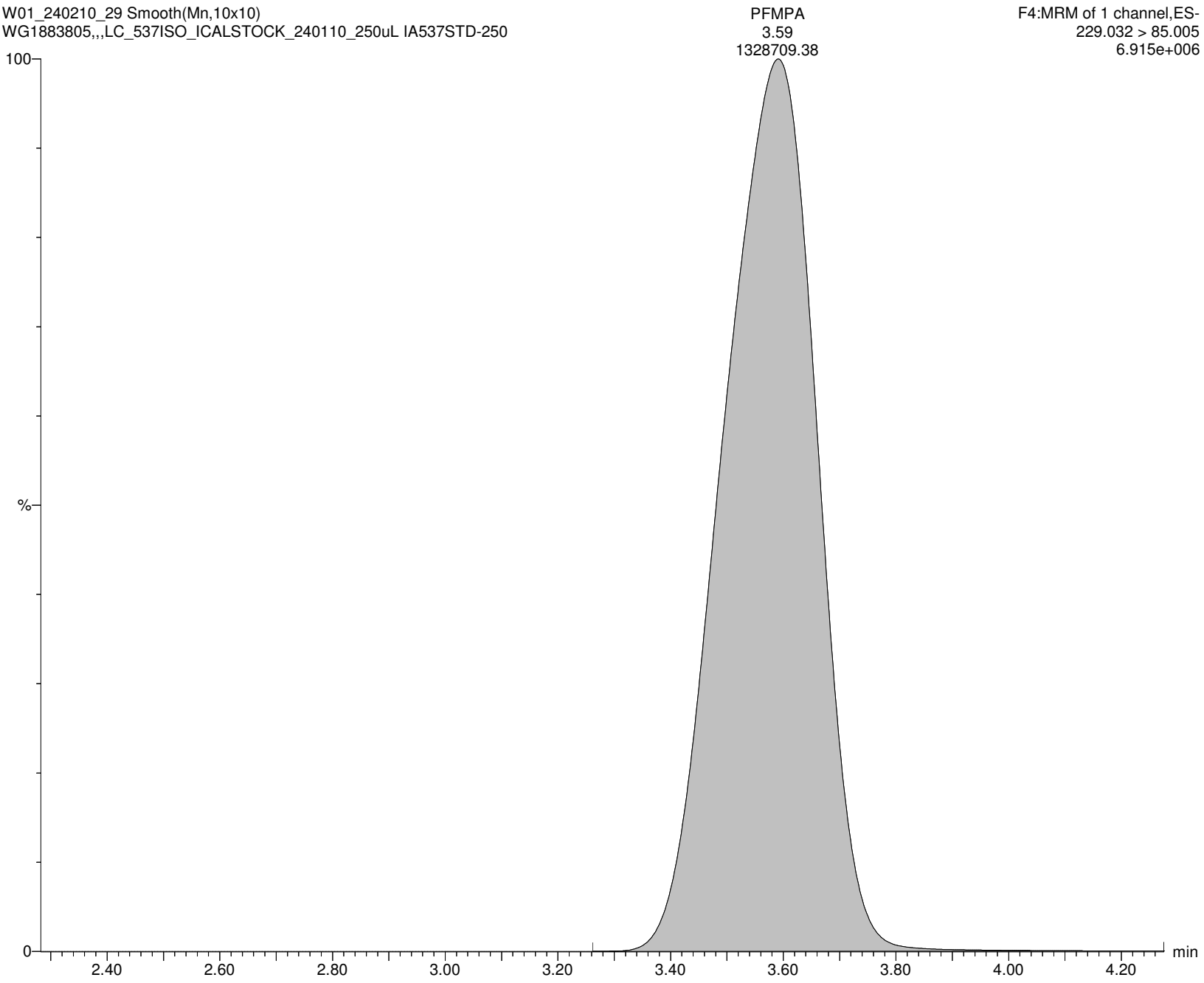

all concentration units in (ng/mL)

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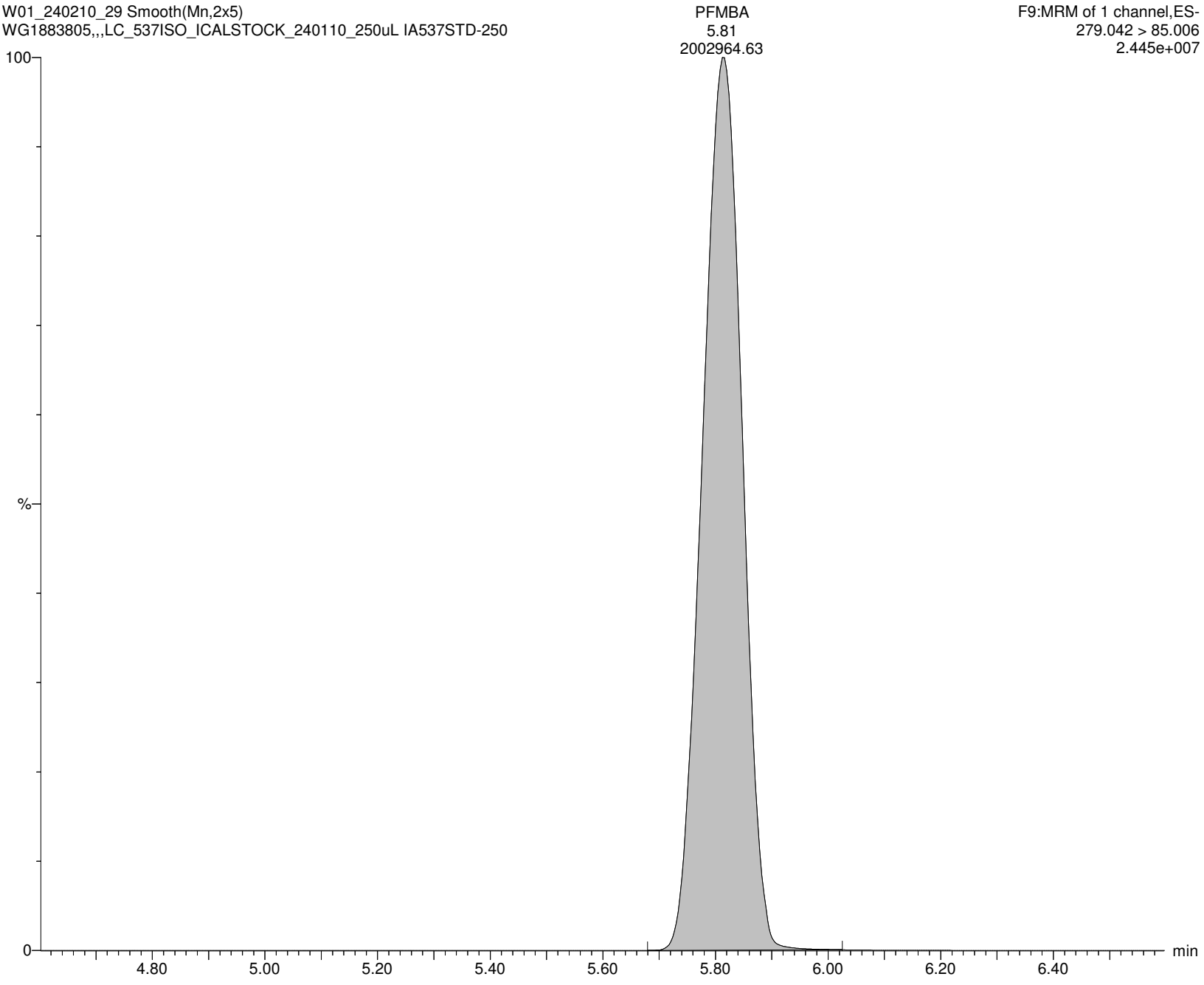

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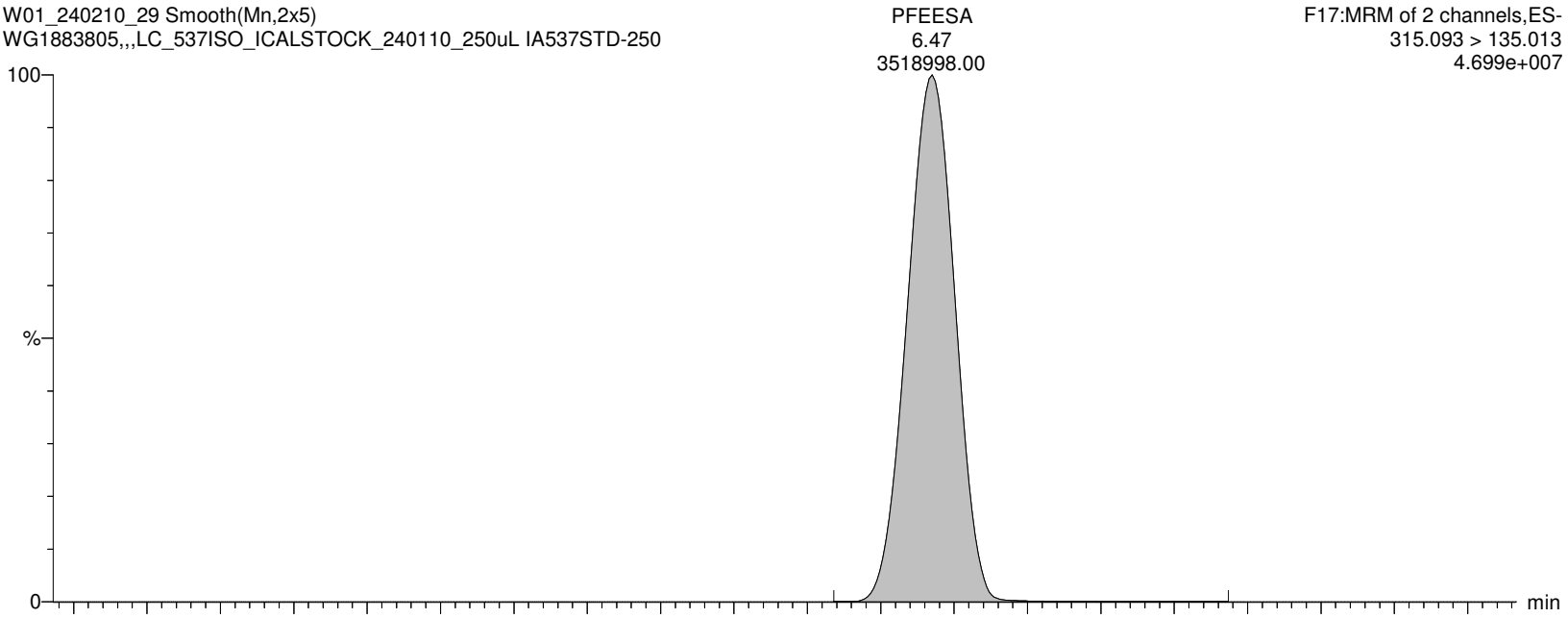

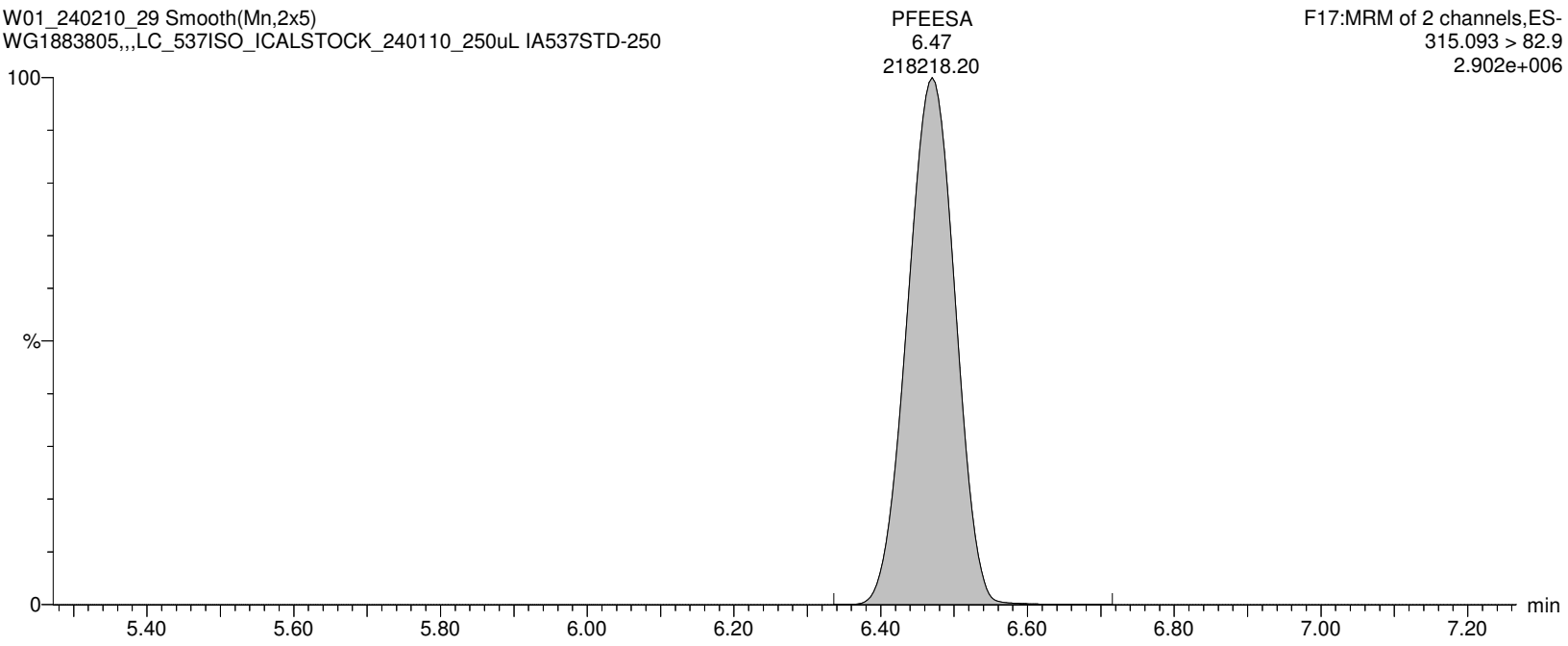

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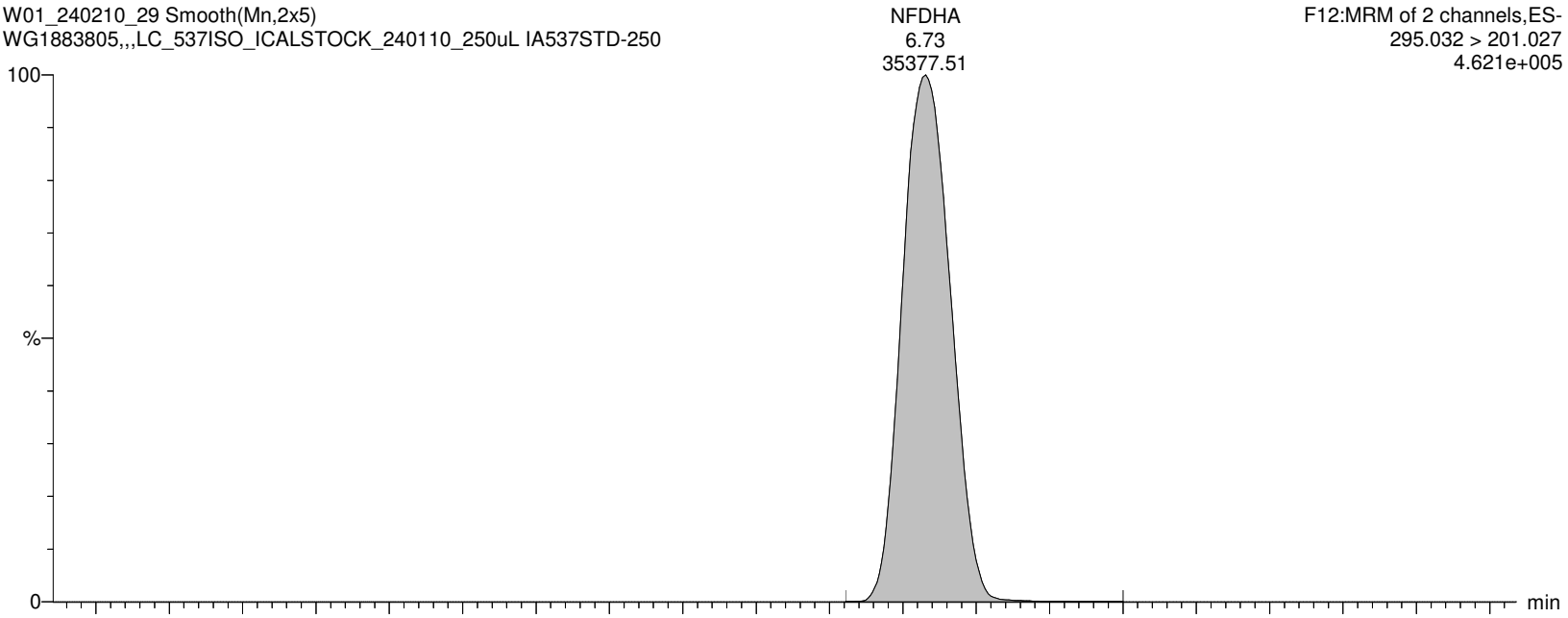

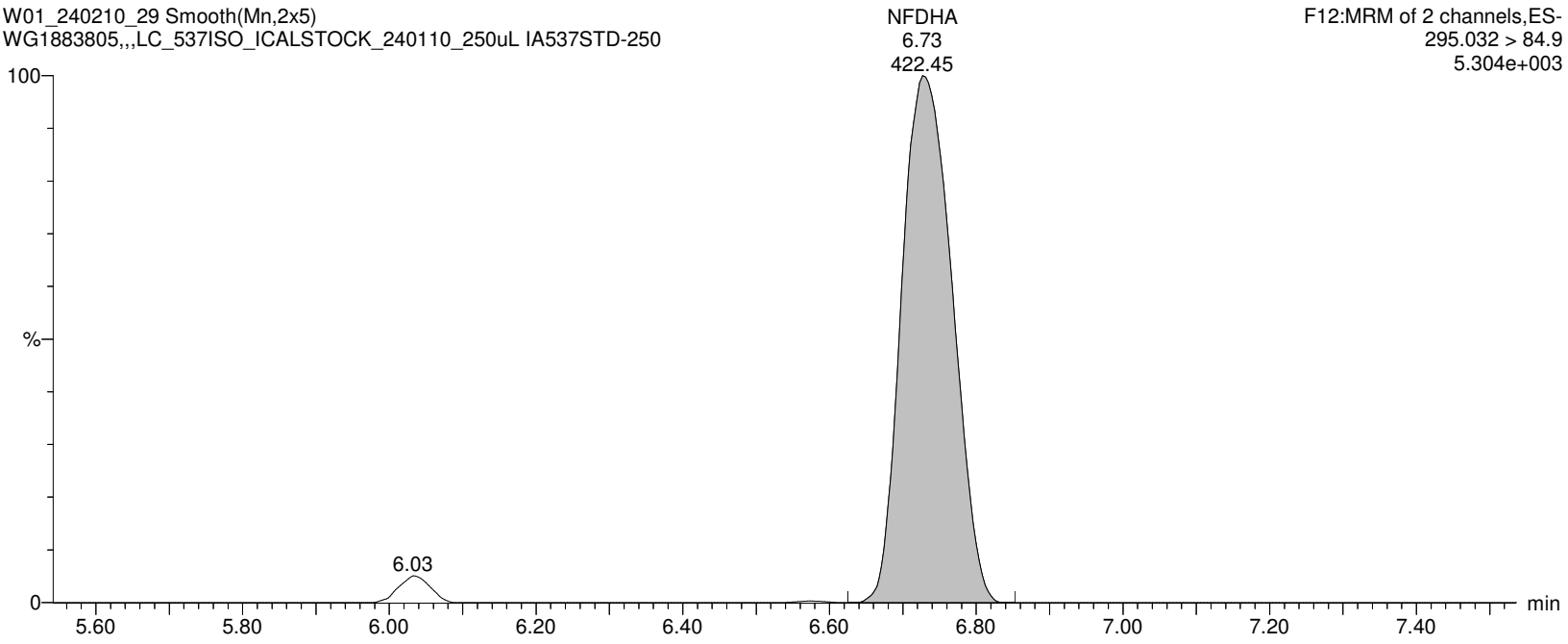

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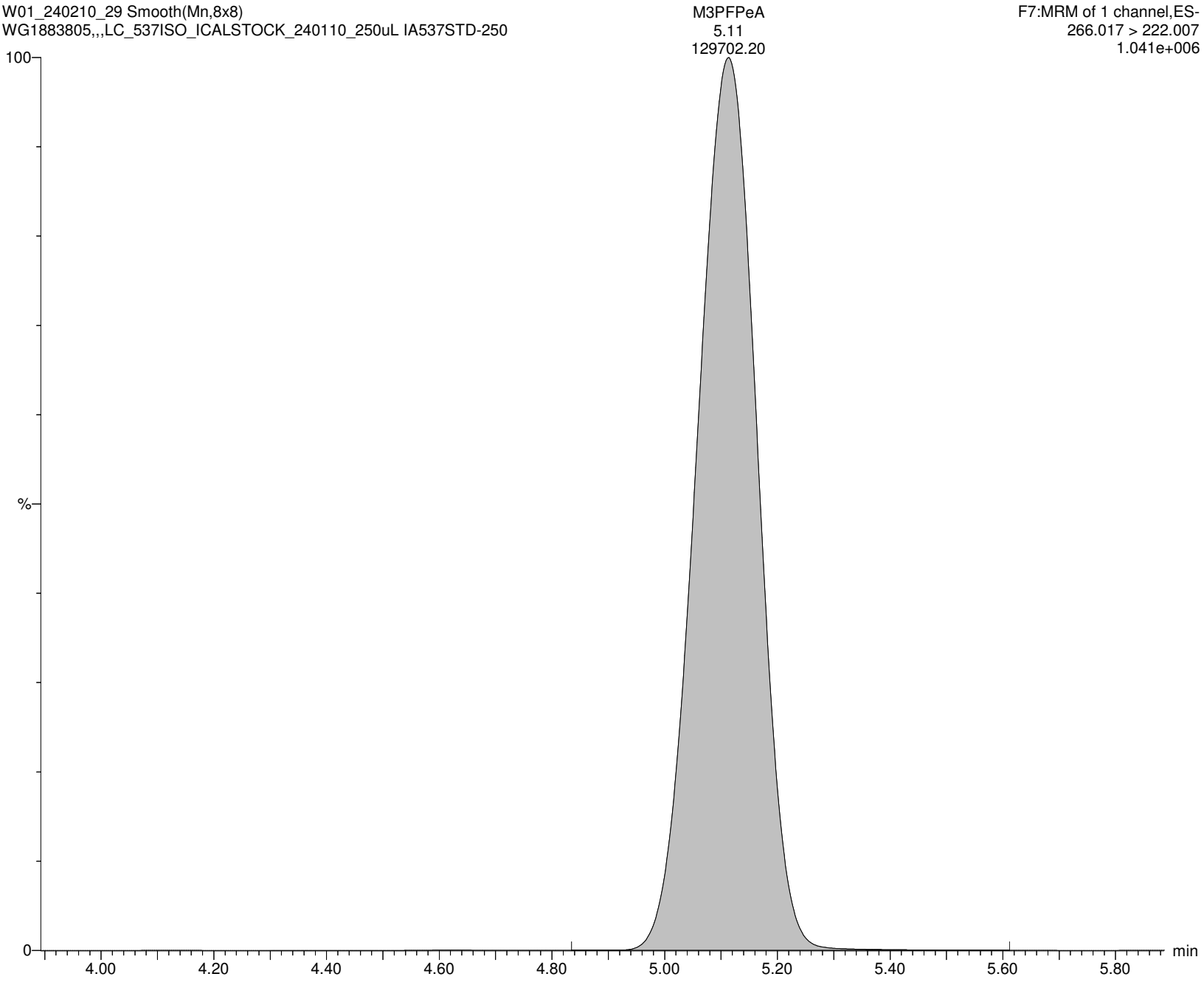

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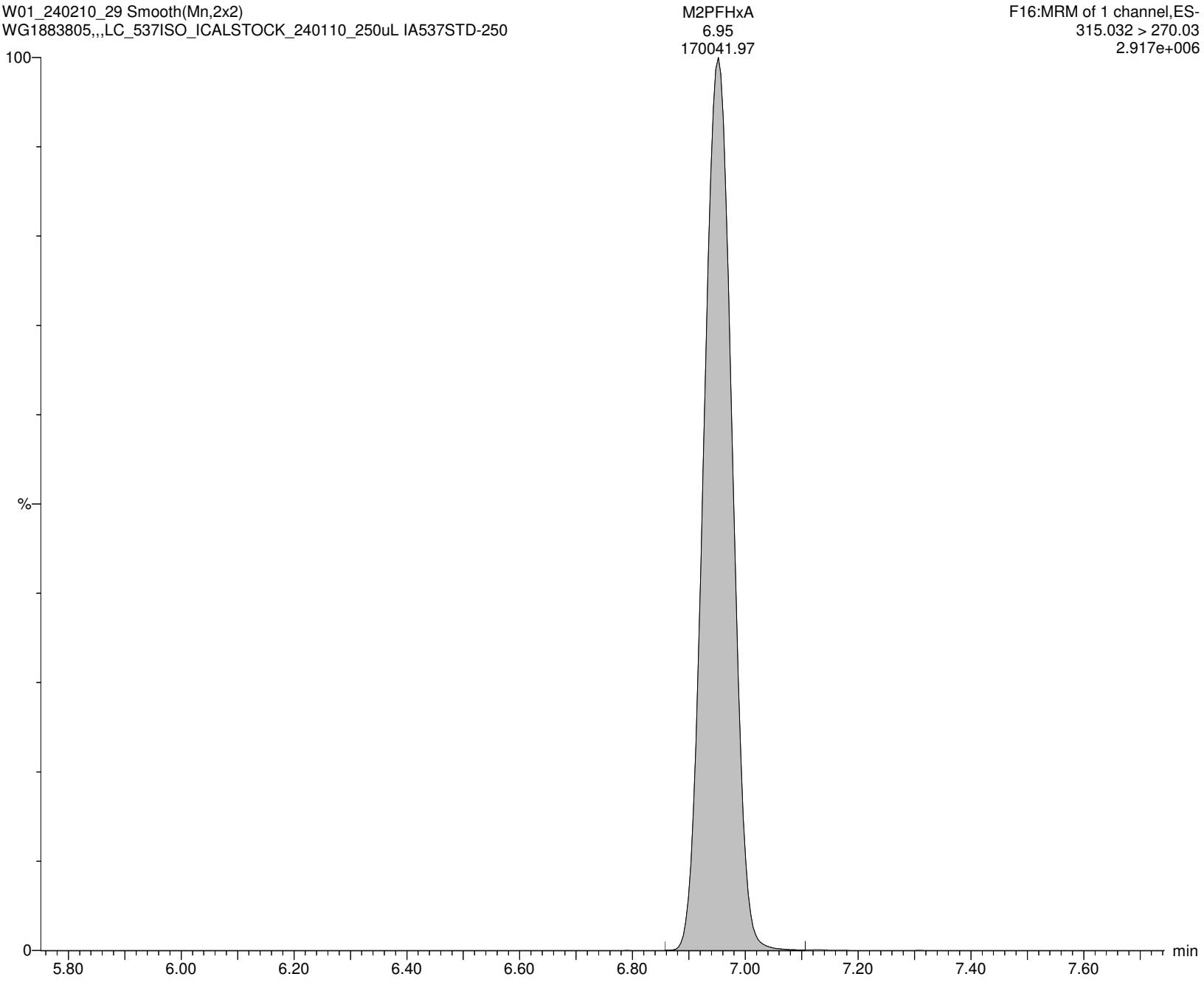

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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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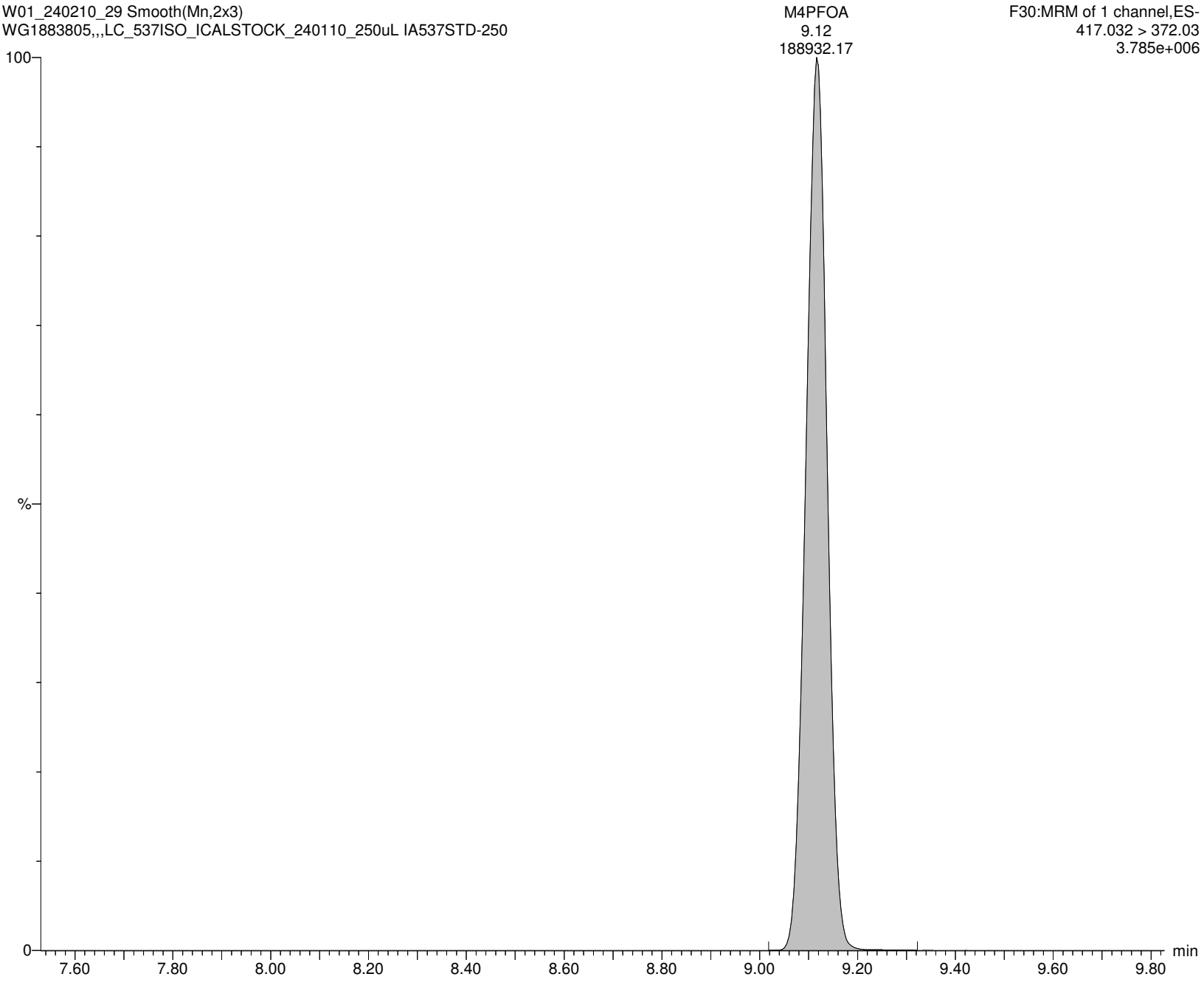

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240210_RT.mdb 11 Feb 2024 12:21:23
Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: CA537STD-10
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Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	69286		9.696		na	97.0
2	M3PFBA	INT STD	2.24	216.009 > 171.999	67537		8.806		na	88.1
3	MPFBA	INT STD	2.24	217.001 > 171.999	78893		10.267		na	102.7
4	PFPeA	2706-90-3	5.11	263.039 > 219.03	81497		9.655		na	96.5
5	M5PFPEA	INT STD	5.10	268.001 > 222.999	83500		10.407		na	104.1
6	PFBS	375-73-5	5.73	299.092 > 80.062	27955		8.565	1.84	NO	96.6
7	M3PFBS	INT STD	5.74	302.069 > 80.062	29458		8.993		na	96.5
8	4:2FTS	757124-72-4	6.86	327.146 > 307.139	8316		9.180	2.14	NO	98.0
9	M2-4:2FTS	INT STD	6.86	329.13 > 309.124	8433		8.737		na	93.1
10	PFHxA	307-24-4	6.94	313.047 > 269.037	114012		9.999	15.38	NO	100.0
11	M5PFHxA	INT STD	6.94	318.009 > 273.007	120075		9.910		na	99.1
12	PFPeS	2706-91-4	7.24	349.1 > 80.062	28429		8.454	1.58	NO	89.8
13	PFHpA	375-85-9	8.18	363.055 > 319.045	128567		9.706	4.58	NO	97.1
14	M4PFHpA	INT STD	8.18	367.025 > 322.022	131827		10.226		na	102.3
15	br-PFHxS	355-46-4	8.11	399.107 > 80.062	4604	M5,M7	1.417	1.83	NO	81.9
16	L-PFHxS	355-46-4	8.33	399.107 > 80.062	22651		6.713	1.47	NO	90.6
17	PFHxS	355-46-4		399.107 > 80.062	27255		8.129		na	
18	M3PFHxS	INT STD	8.33	402.084 > 80.062	29459		9.350		na	98.6
19	br-PFOA	335-67-1		413.063 > 369.053			ND	0.00	NO	
20	L-PFOA	335-67-1	9.13	413.063 > 369.053	144200		9.463	11.52	NO	94.6
21	PFOA	335-67-1		413.063 > 369.053	144200		9.463		na	
22	M8PFOA	INT STD	9.13	421.002 > 376.	148212		10.580		na	105.8
23	M2PFOA	INT STD	9.13	415.048 > 370.045	138400		9.323		na	93.2
24	6:2FTS	27619-97-2	9.08	427.161 > 407.155	7529		9.568	3.63	NO	100.6
25	M2-6:2FTS	INT STD	9.09	429.146 > 409.14	8926		8.049		na	84.6
26	PFHpS	375-92-8	9.22	449.115 > 80.062	30769		9.584	1.54	NO	100.6
27	PFNA	375-95-1	9.91	463.071 > 419.061	147886		9.778	6.71	NO	97.8
28	M9PFNA	INT STD	9.91	472.002 > 427.	150097		10.314		na	103.1
29	br-PFOS	1763-23-1	9.77	499.123 > 80.062	7362	M5,M7	1.652	3.23	NO	84.3
30	L-PFOS	1763-23-1	9.96	499.123 > 80.062	25118		6.466	1.58	NO	88.3
31	PFOS	1763-23-1		499.123 > 80.062	32480		8.118		na	
32	M4PFOS	INT STD	9.96	503.093 > 80.062	34486		9.311		na	97.0
33	M8PFOS	INT STD	9.96	507.062 > 80.062	34696		9.431		na	98.3
34	PFDA	335-76-2	10.56	513.078 > 469.069	119116		9.499	4.71	NO	95.0
35	M2PFDA	INT STD	10.56	515.063 > 470.061	124174		9.255		na	92.6
36	M6PFDA	INT STD	10.57	519.033 > 474.03	128837		10.407		na	104.1
37	8:2FTS	39108-34-4	10.55	527.177 > 507.171	7824		9.686	2.80	NO	100.9
38	M2-8:2FTS	INT STD	10.55	529.162 > 509.155	9577		8.168		na	85.1
39	PFNS	68259-12-1	10.59	549.131 > 80.062	35063		9.127	2.00	NO	94.9

all concentration units in (ng/mL)

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Date: 11-Feb-2024
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Description: WG1883805,,,LC_537ISO_ICV_240210
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.94	573.22 > 419.061	18700		9.834		na	98.3
41	br-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.95	570.202 > 419.061	12356		9.594	2.31	NO	126.2
43	NMeFOSAA	2355-31-9		570.202 > 419.061	12356		9.594		na	
44	PFUnA	2058-94-8	11.14	563.086 > 519.076	137930		9.152	6.85	NO	91.5
45	M7-PFUDA	INT STD	11.14	570.033 > 525.031	145607		10.795		na	108.0
46	PFDS	335-77-3	11.15	598.926 > 80.062	33174		9.579	1.84	NO	99.3
47	FOSA	754-91-6	10.90	498.146 > 78.07	87522		8.673	34.79	NO	86.7
48	M8FOSA	INT STD	10.90	506.077 > 78.07	91459		10.047		na	100.5
49	d5-NEtFOSAA	INT STD	11.24	589.259 > 419.061	17963		10.023		na	100.2
50	br-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	584.229 > 419.061	11453		7.961	1.37	NO	102.7
52	NEtFOSAA	2991-50-6		584.229 > 419.061	11453		7.961		na	
53	PFDoA	307-55-1	11.63	613.094 > 569.084	141561		8.913	6.95	NO	89.1
54	MPFDOA	INT STD	11.63	615.079 > 570.077	147167		9.721		na	97.2
55	PFTrDA	72629-94-8	12.07	663.102 > 619.092	115482		10.711	8.20	NO	107.1
56	PFTA	376-06-7	12.44	713.11 > 669.1	141675		9.327	17.50	NO	93.3
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	137046		10.038		na	100.4
58	M3HFPO-DA	INT STD	7.36	287.02 > 169.022	157356		200.144		na	100.1
59	HFPO-DA	13252-13-6	7.36	285.035 > 169.022	71125		122.818	28.88	NO	122.8
60	ADONA	958445-44-8	8.36	377.06 > 251.028	152943		9.229	87.60	NO	97.7
61	PFHxDA		12.83	813.122 > 769.116	196467		8.104	52.10	NO	81.0
62	PFODA		13.06	913.411 > 869.131	48191		7.041	94.73	NO	70.4
63	M2PFHxDA		12.84	815.102 > 770.108	221708		10.484		na	104.8
64	PFDoS		12.05	699.154 > 80.062	33410		9.794	1.51	NO	101.2
65	M2D4-10:2FTS		11.64	633.201 > 612.189	10524		20.849		na	106.4
66	10:2FTS		11.65	627.192 > 607.186	6078	M4,M7	7.393	3.39	NO	76.5
67	9CL-PF3ONS		10.32	531.096 > 351.07	74086		8.195	2.24	NO	87.8
68	11CL-PFOUdS		11.42	631.096 > 451.076	69997		8.044	2.69	NO	85.3
69	NMeFOSA		11.54	512.163 > 169.022	26897		8.958	1.58	NO	89.6
70	d3-NMeFOSA		11.53	515.183 > 169.022	289939		112.868		na	112.9
71	NEtFOSA		11.86	526.192 > 169.022	27241		9.309	10.06	NO	93.1
72	d5-NEtFOSA		11.84	531.222 > 169.022	281414		108.630		na	108.6
73	NMeFOSE		11.55	616 > 59	35183		8.804		na	88.0
74	d7-NMeFOSE		11.53	623 > 59	324040		114.930		na	114.9
75	NEtFOSE		11.84	630 > 59	35257		11.692		na	116.9
76	d9-NEtFOSE		11.83	639 > 59	305056		99.378		na	99.4
77	PFPrS		3.60	249.084 > 80.062	27384		7.450	3.06	NO	81.0
78	PFMPA		3.59	229.032 > 85.005	57083		9.615		na	96.2
79	PFMBA		5.81	279.042 > 85.006	84297		10.225		na	102.3
80	PFEESA		6.46	315.093 > 135.013	163330		8.954	15.20	NO	100.6
81	NFDHA		6.72	295.032 > 201.027	1895	M7	10.735	644.70	YES	107.3
82	M3PFPeA		5.11	266.017 > 222.007	82455		7.141		na	71.4

all concentration units in (ng/mL)

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Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
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ID: CA537STD-10
Name: W01_240210_32
Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
83	M2PFHxA		6.94	315.032 > 270.03	111516		6.601		na	66.0
84	M4PFOA		9.13	417.032 > 372.03	136541		7.019		na	70.2

all concentration units in (ng/mL)

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ID: CA537STD-10
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Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
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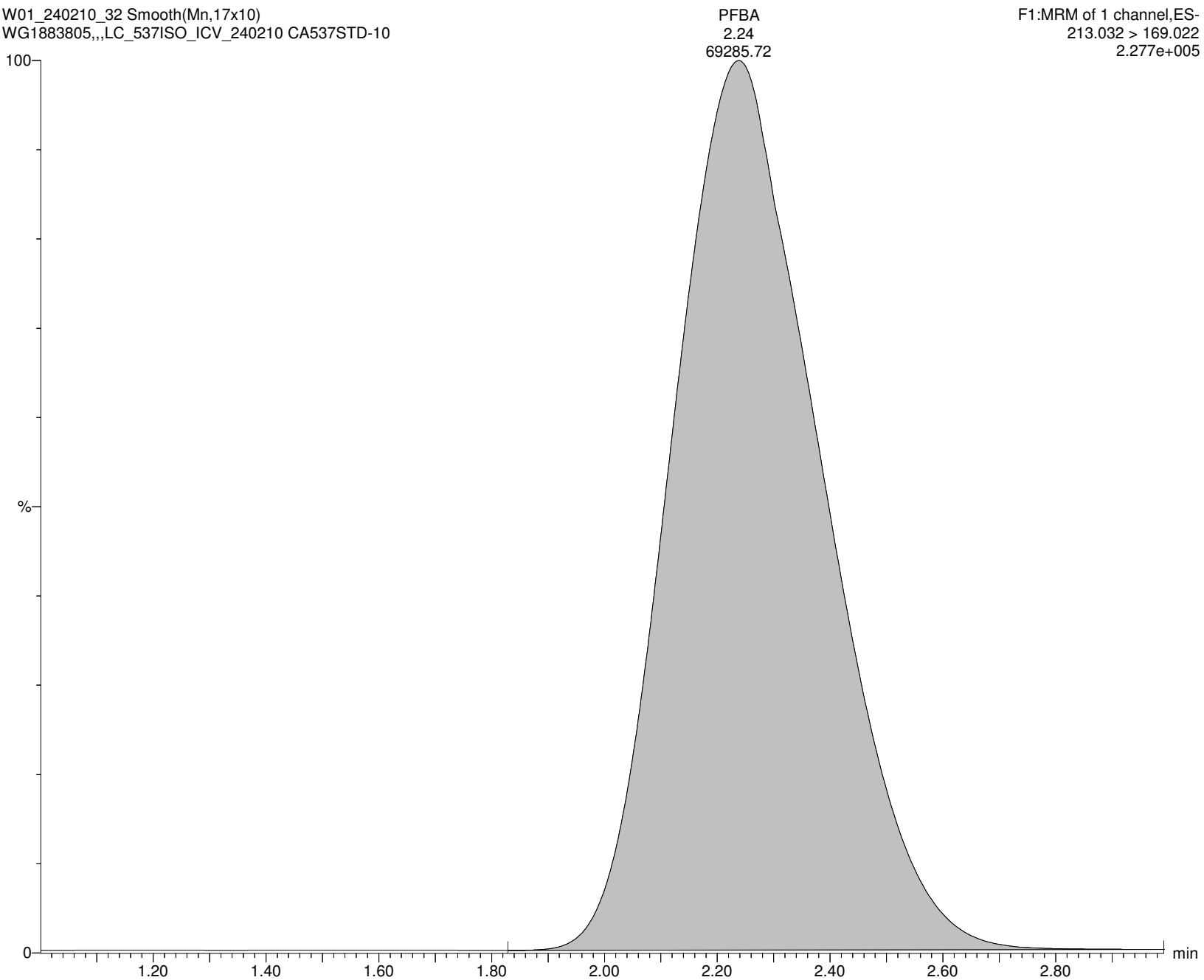

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Instrument: XEVO-TQSmicro#QEA0276
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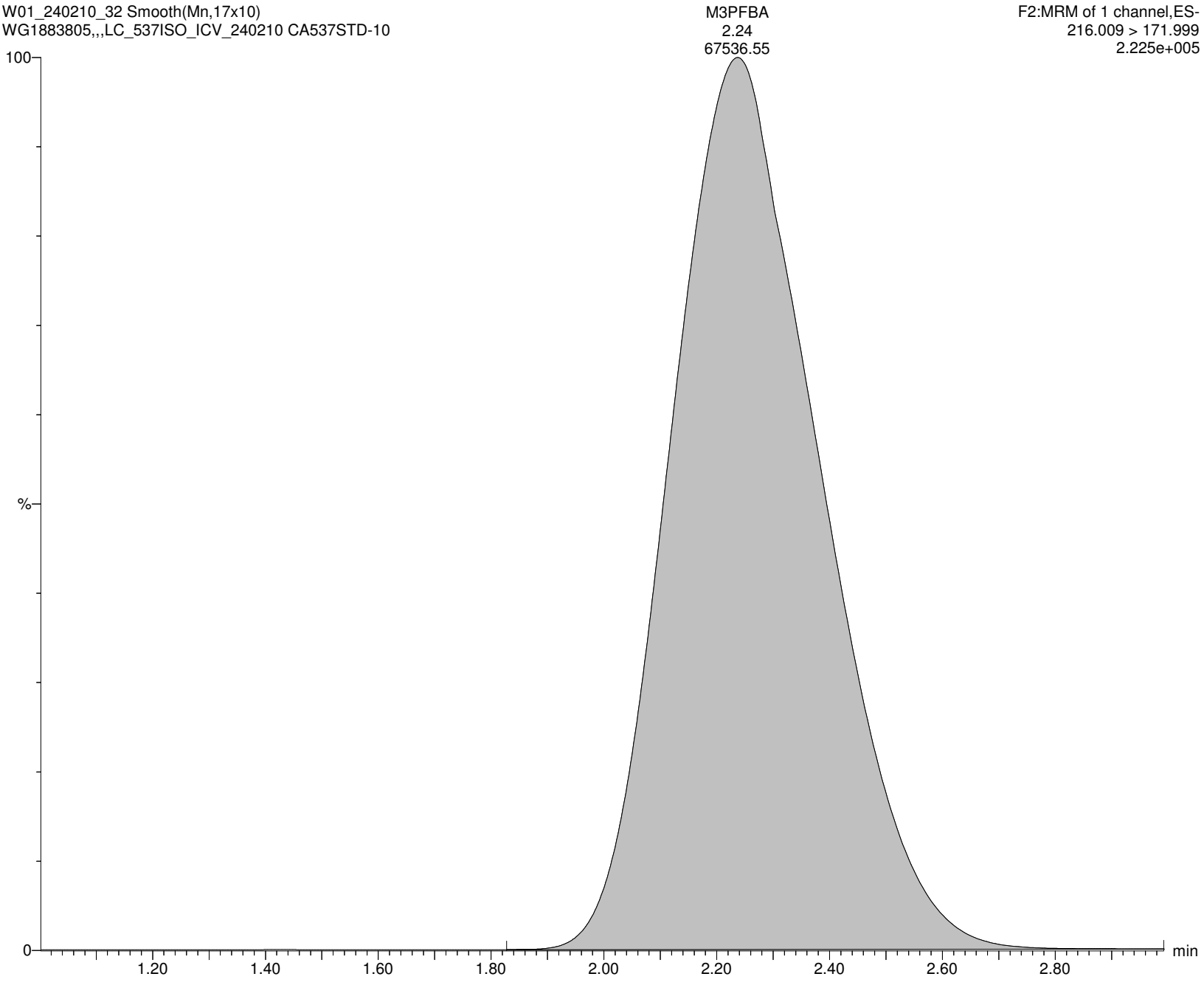

all concentration units in (ng/mL)

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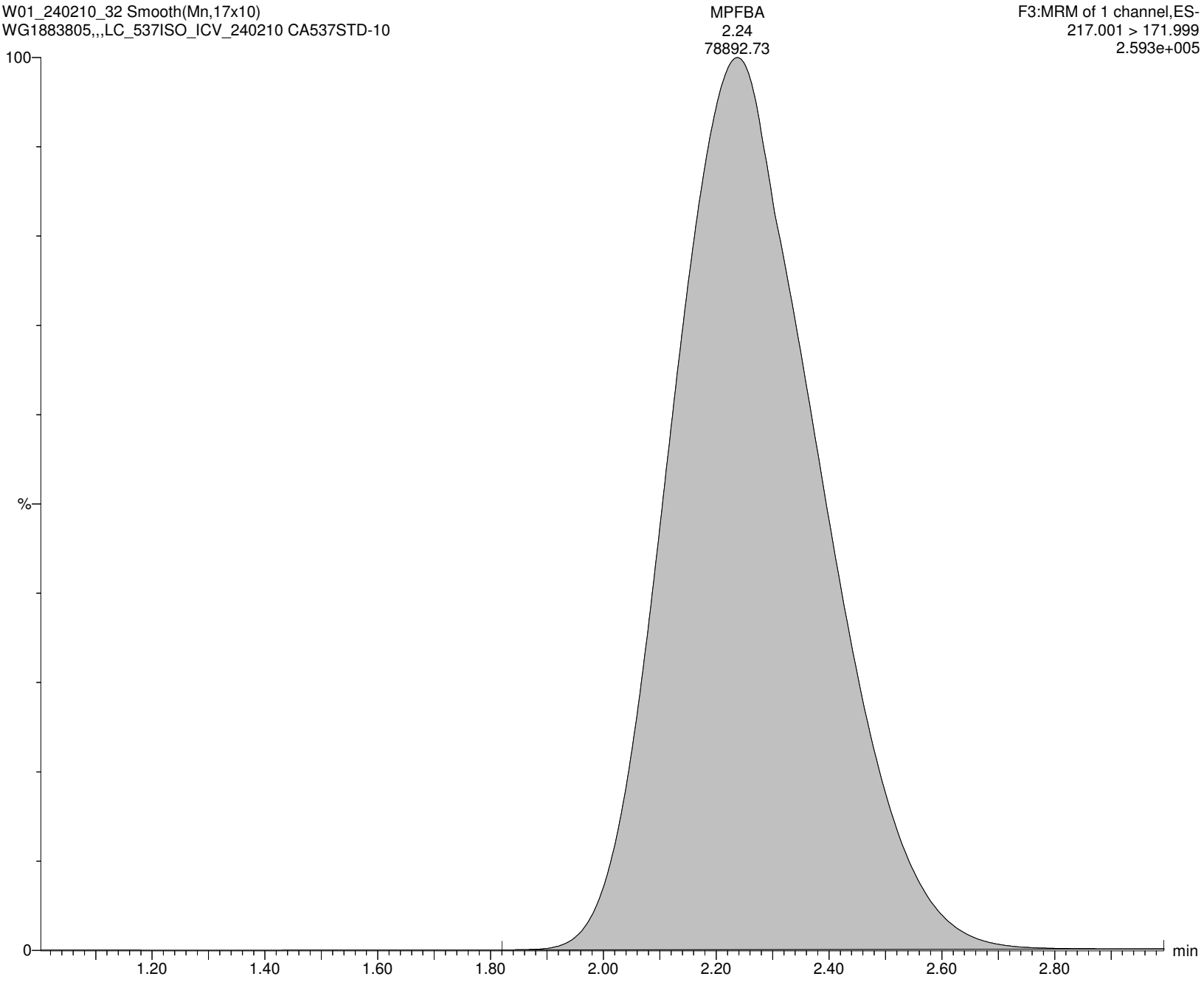

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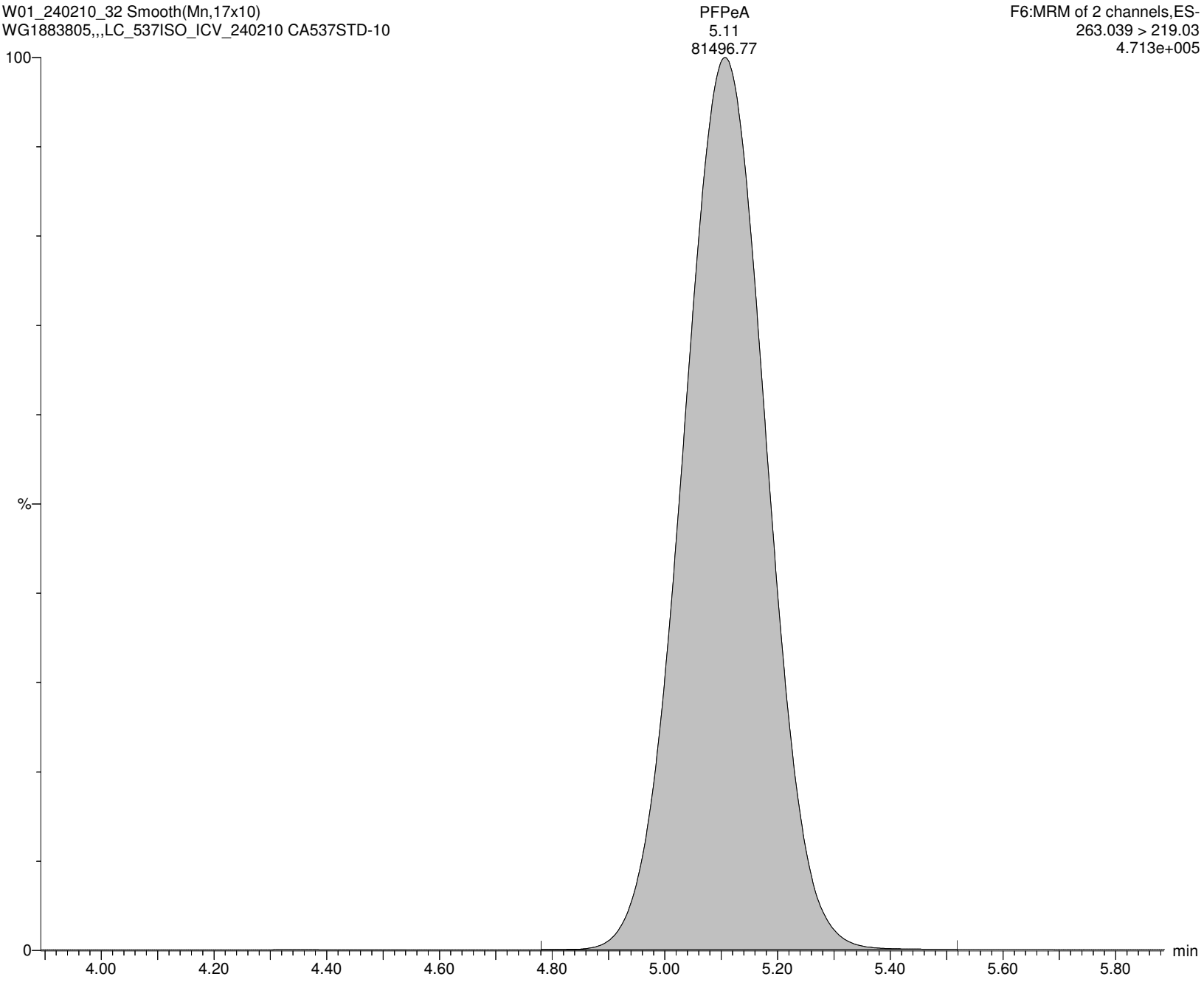

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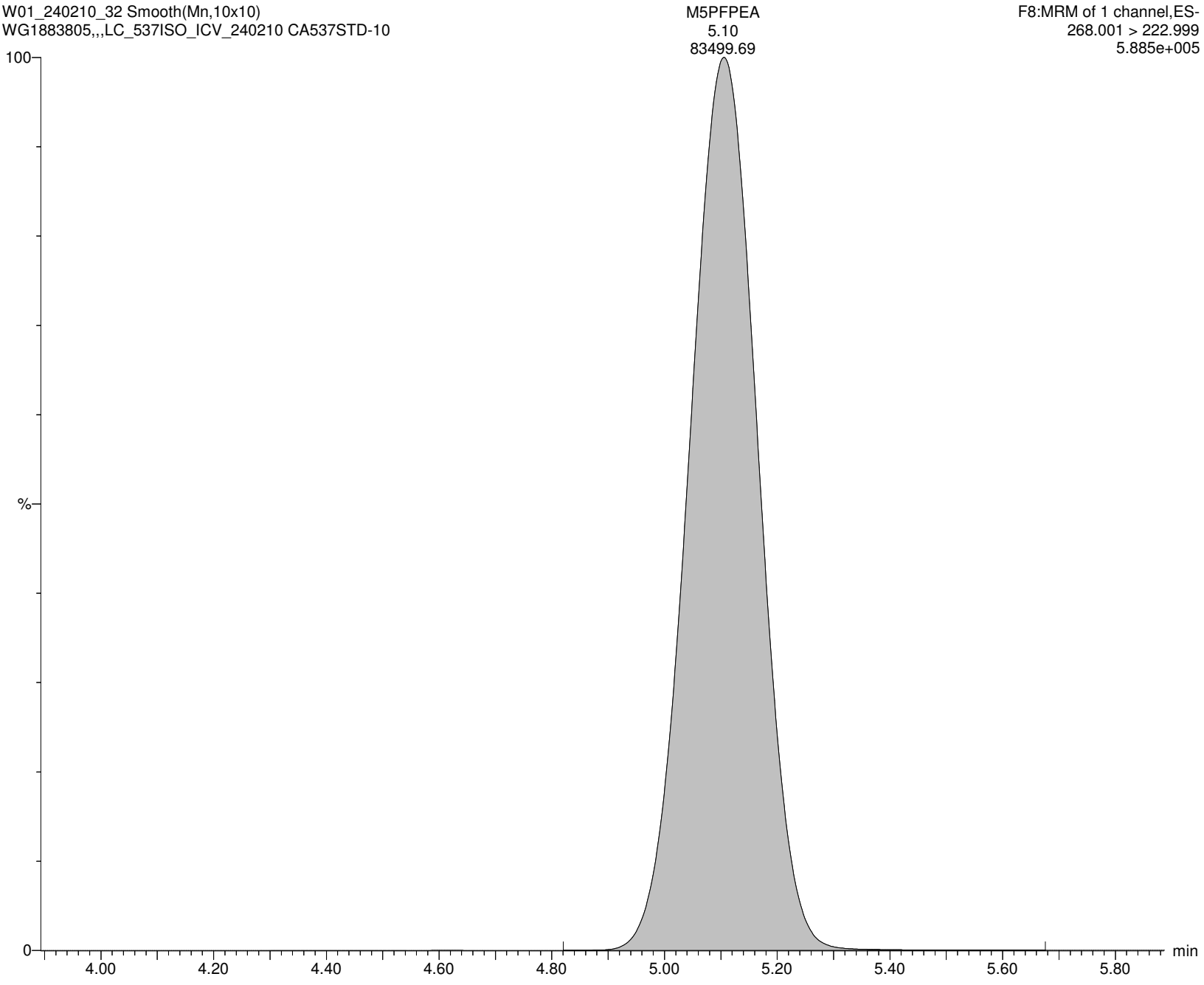

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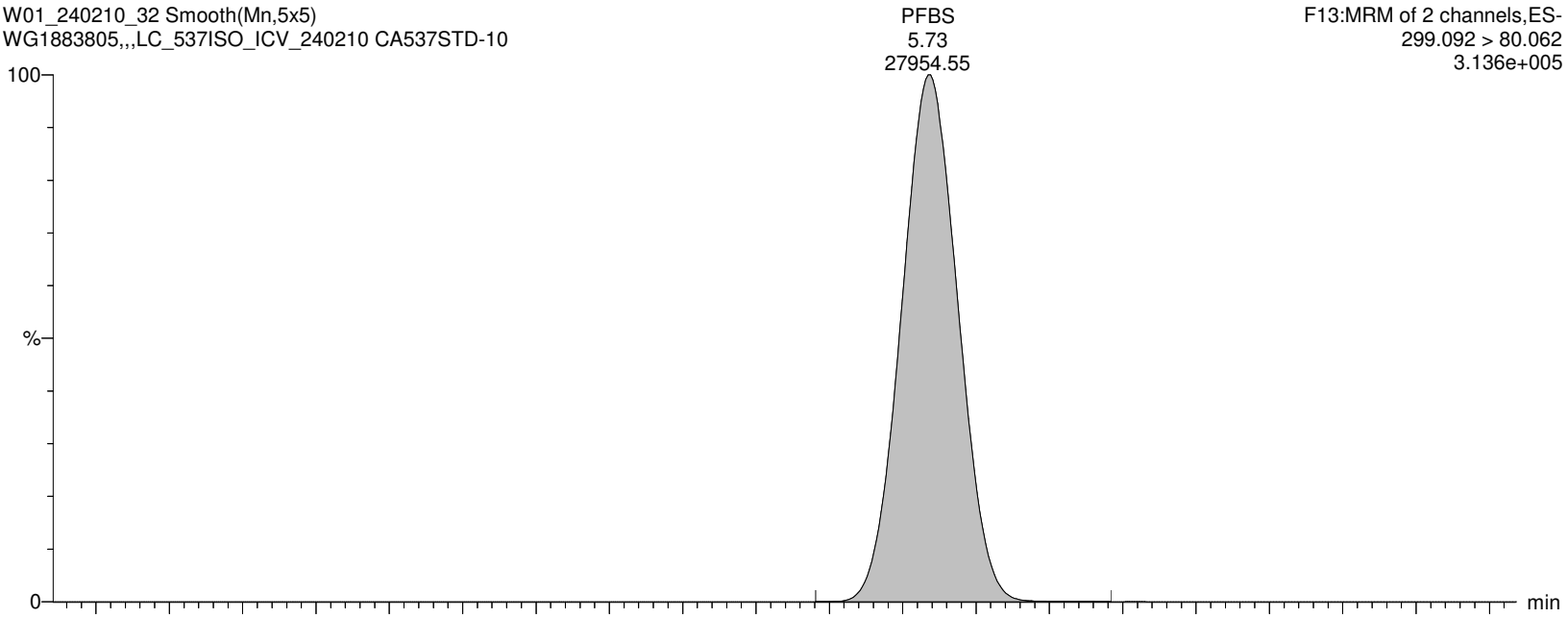
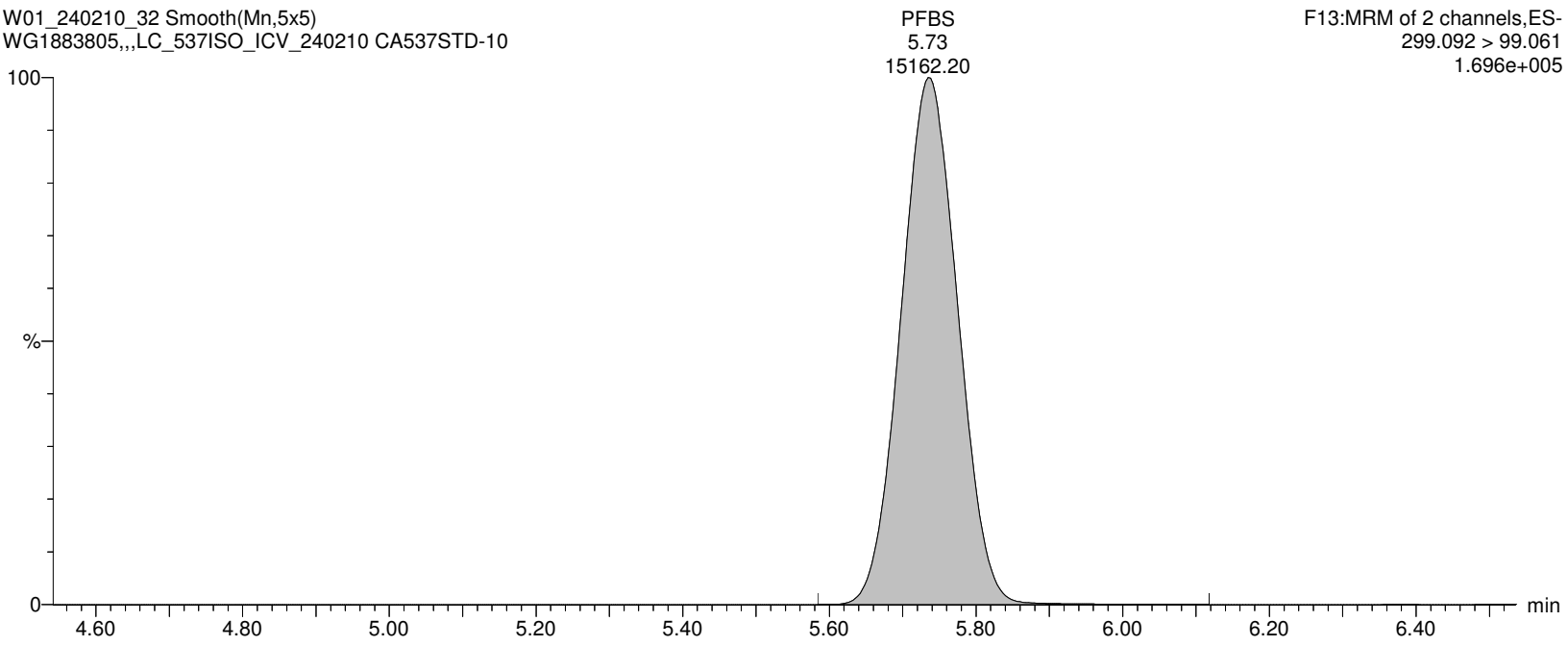
PFBS





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ID: CA537STD-10
Date: 11-Feb-2024
Time: 10:57:05
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User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
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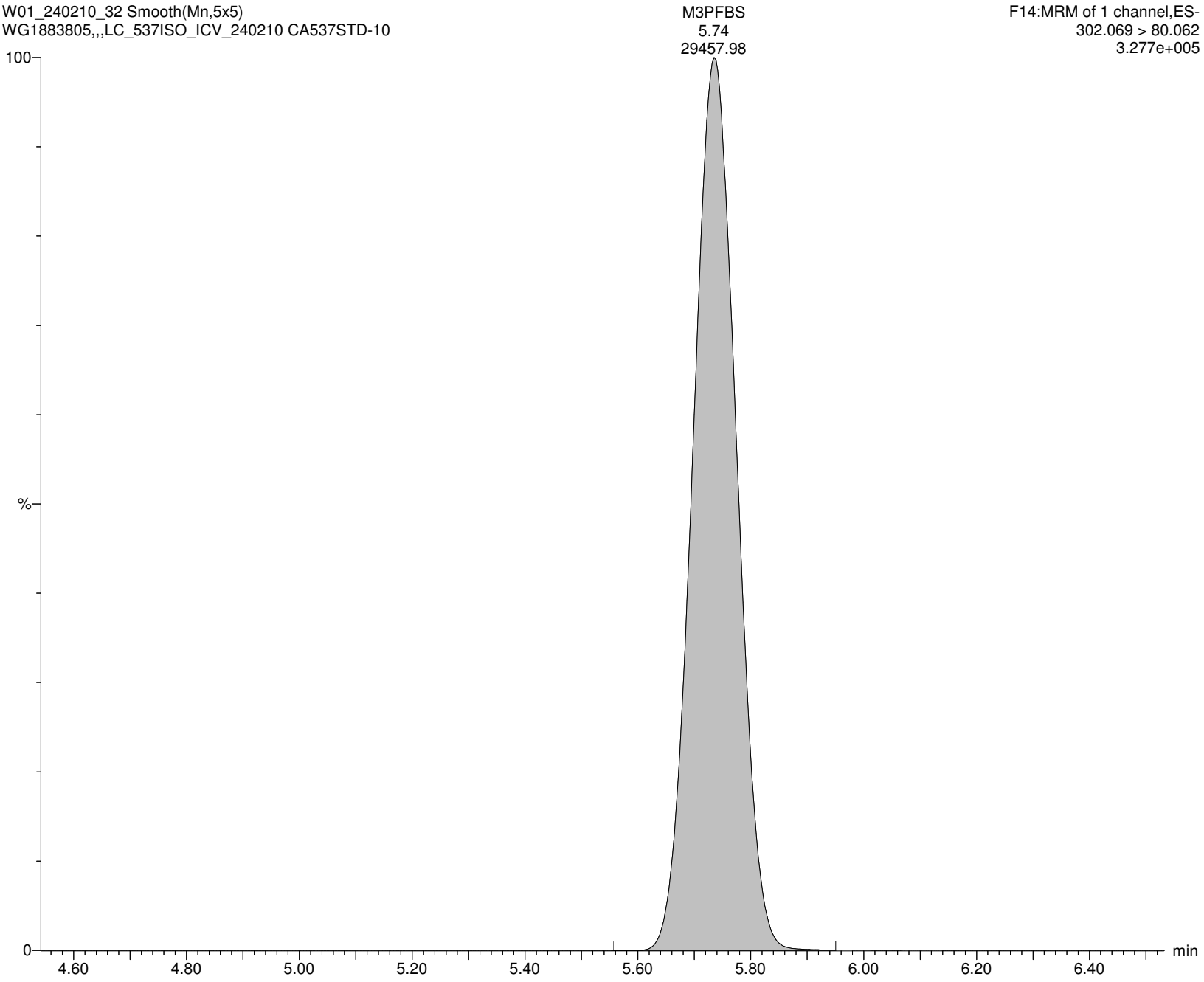

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

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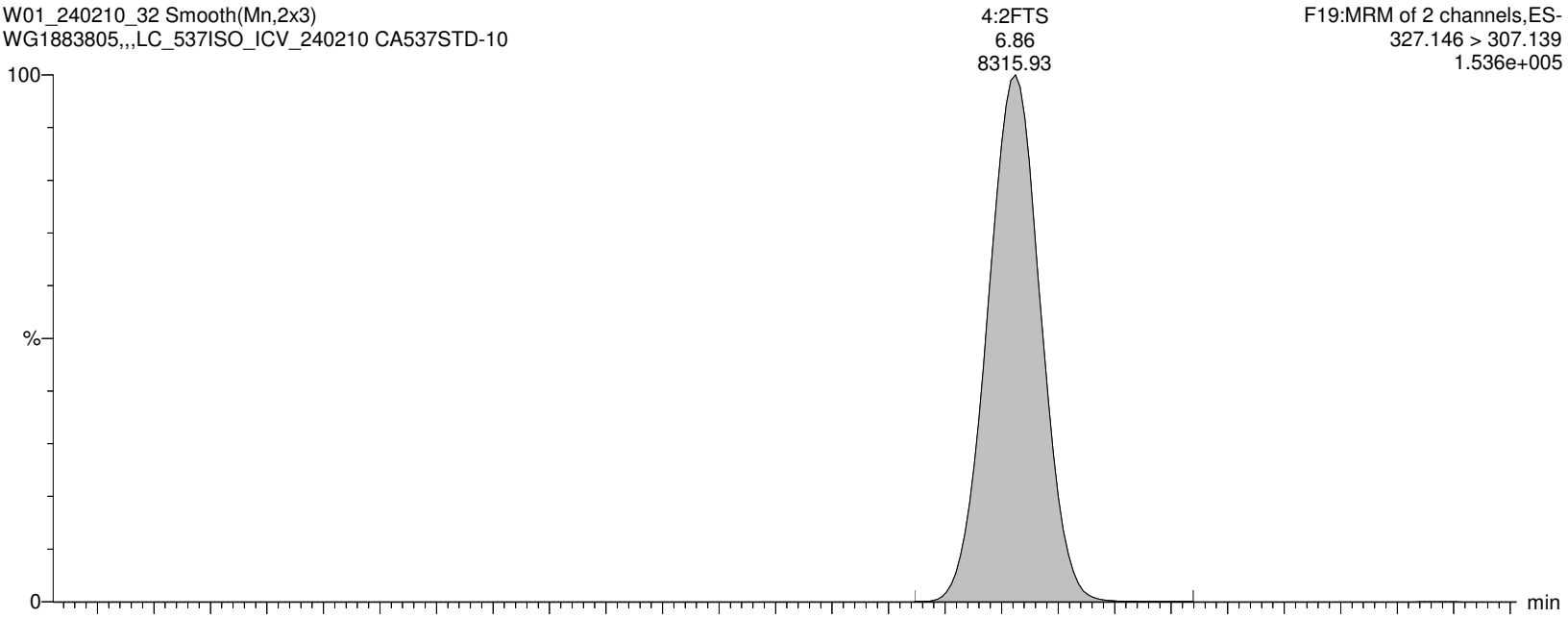

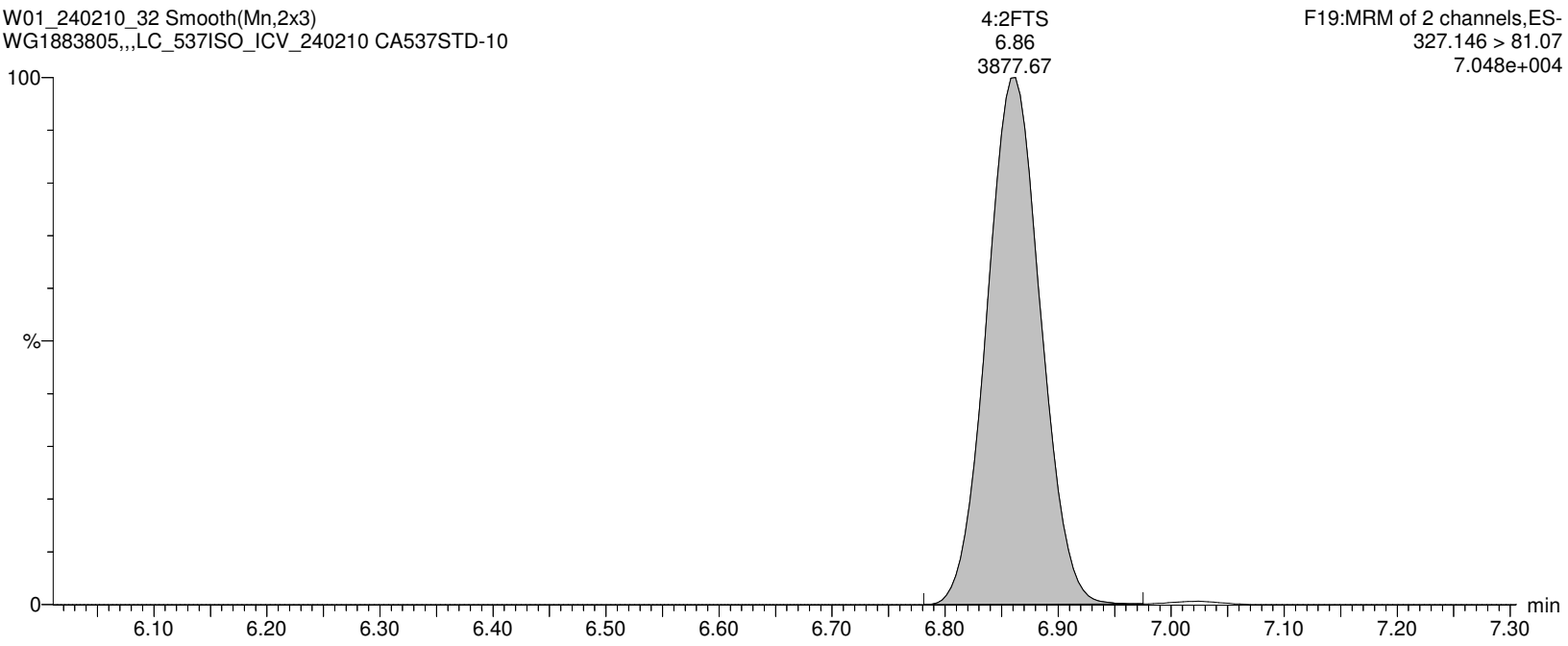

all concentration units in (ng/mL)

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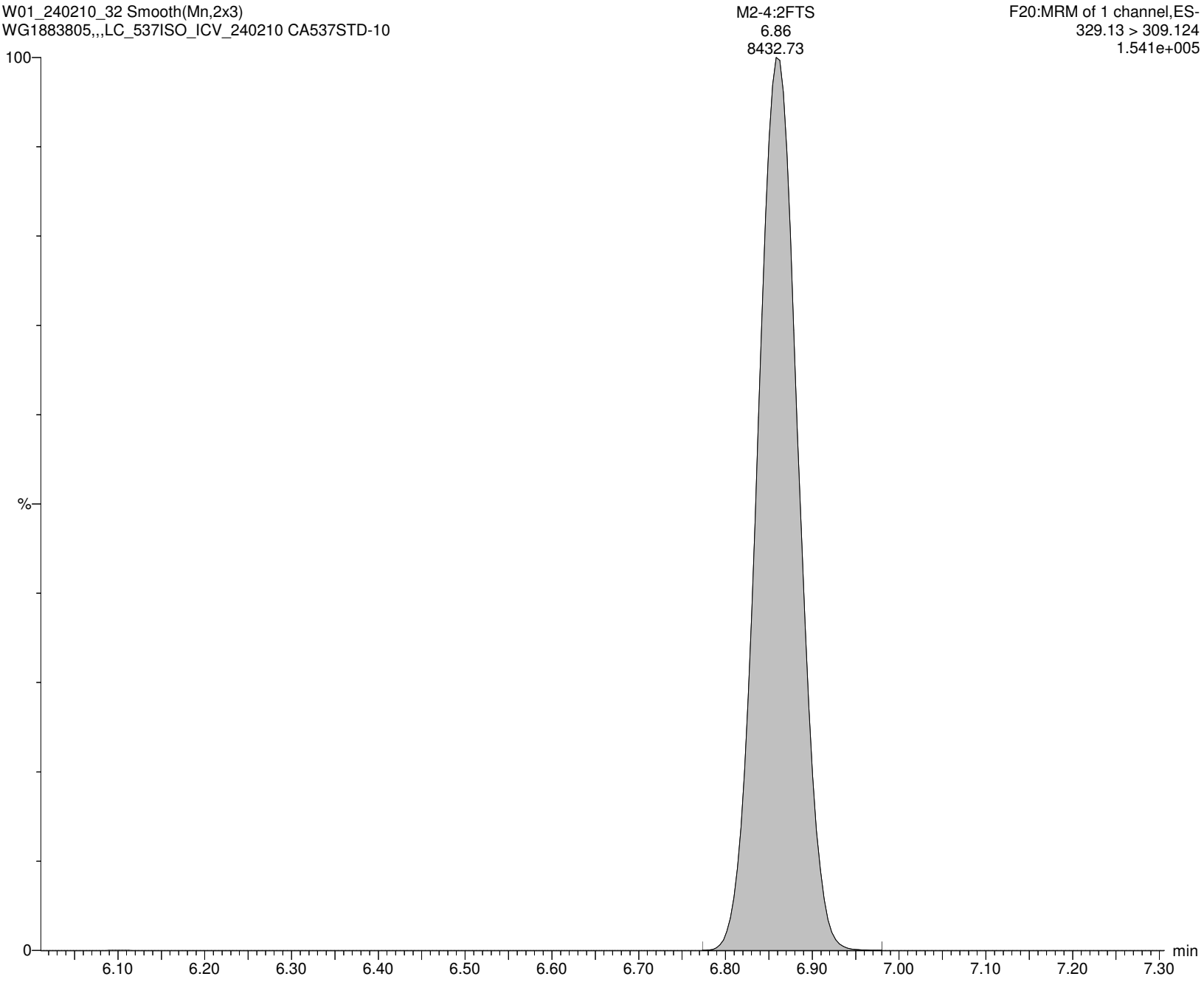

all concentration units in (ng/mL)

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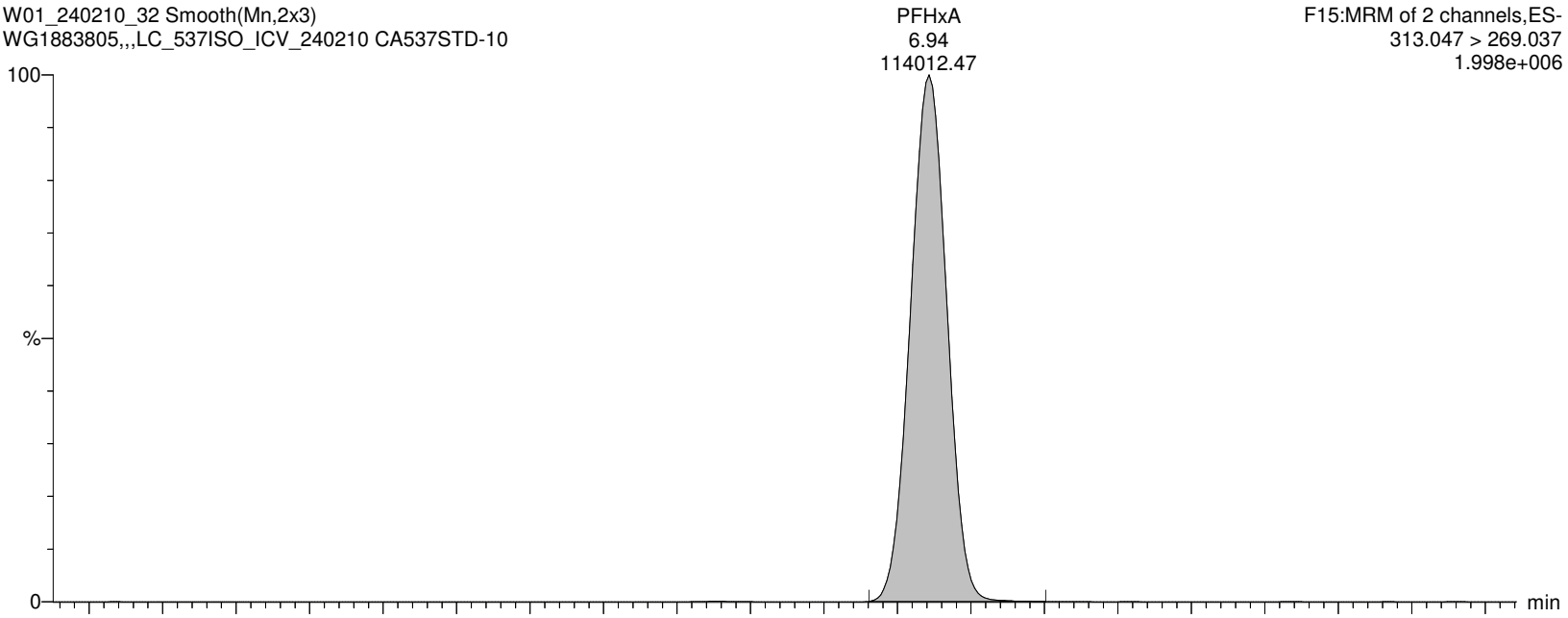

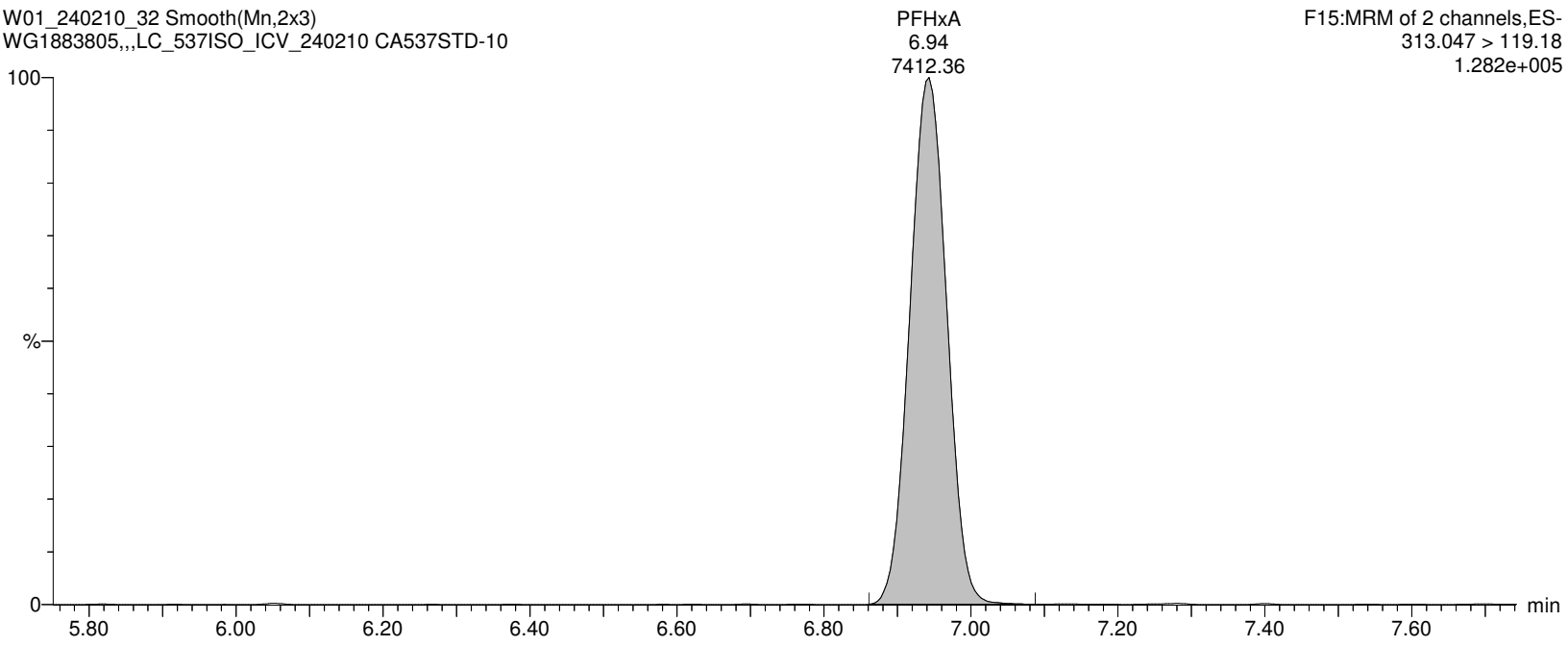

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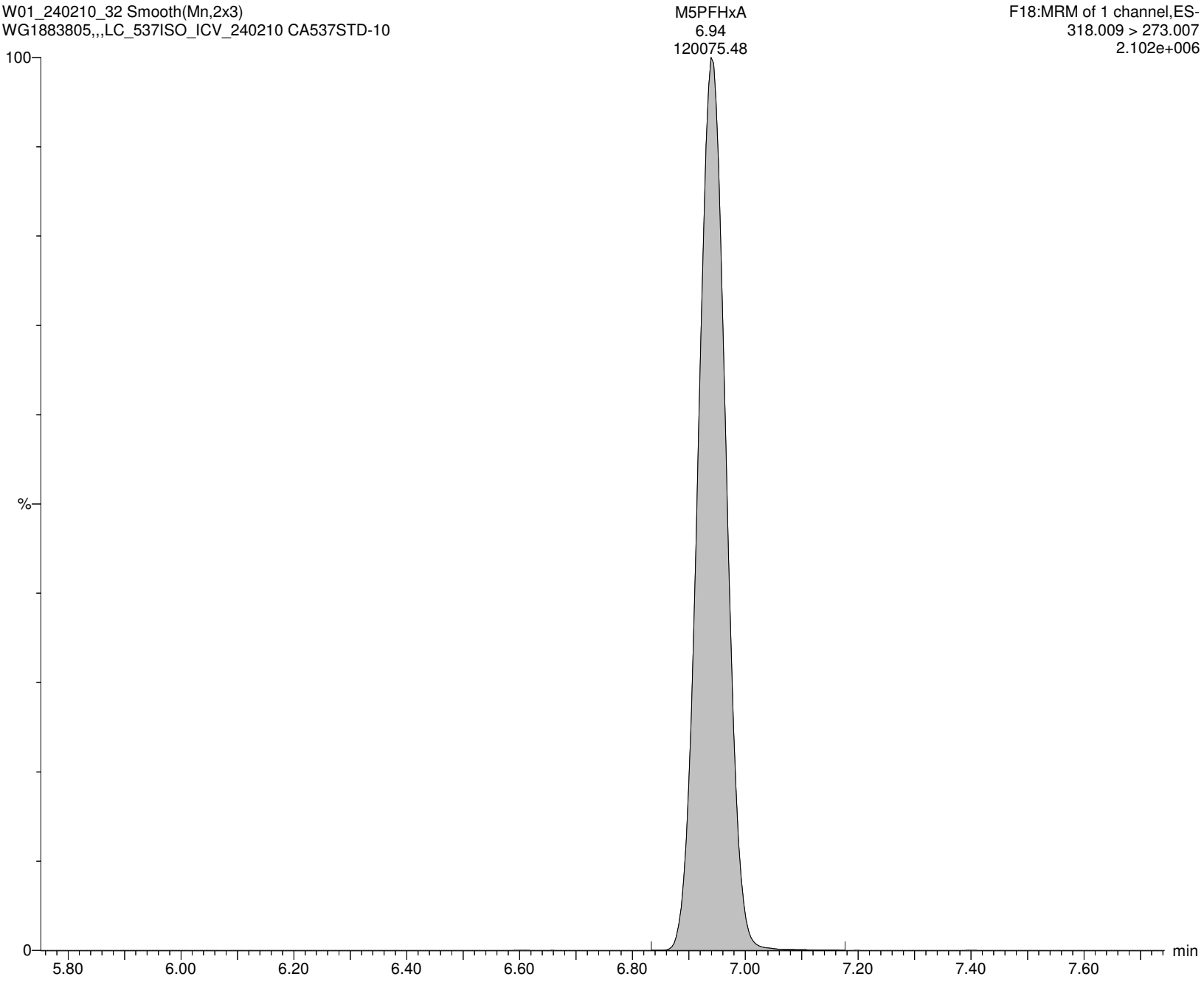

all concentration units in (ng/mL)

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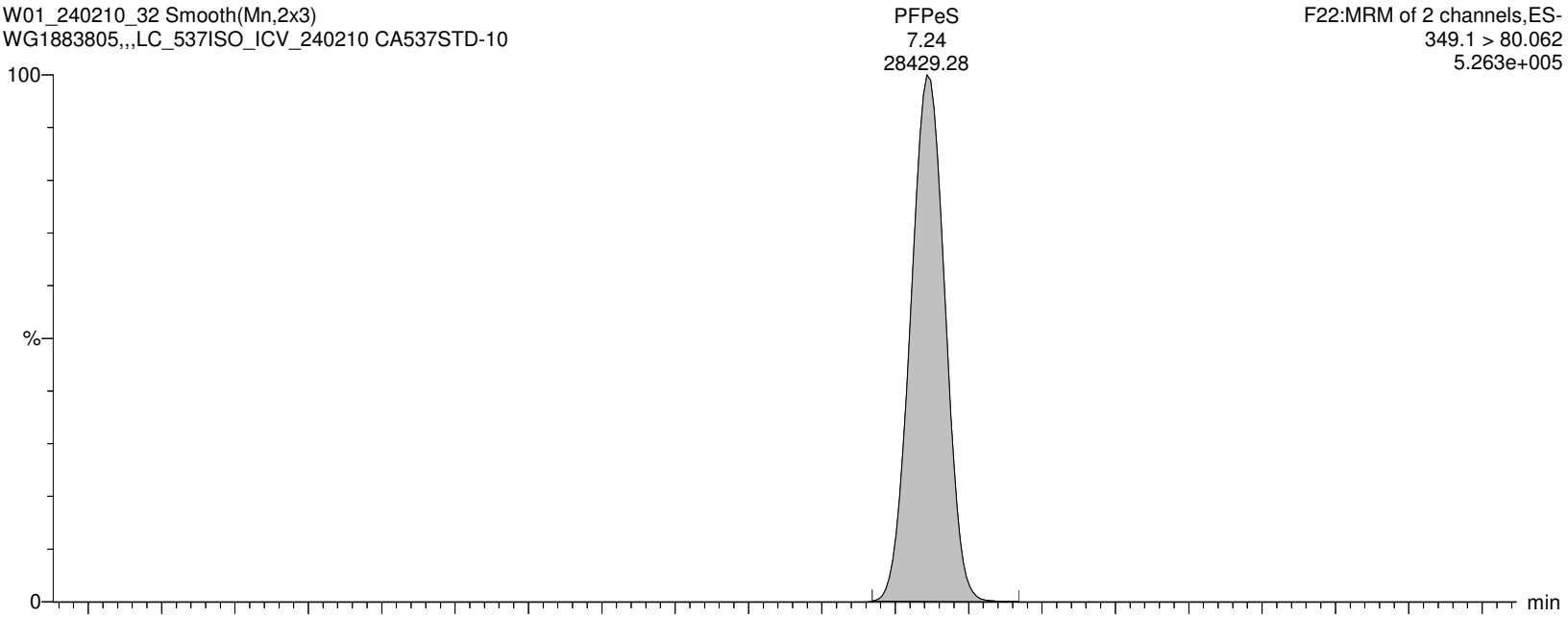

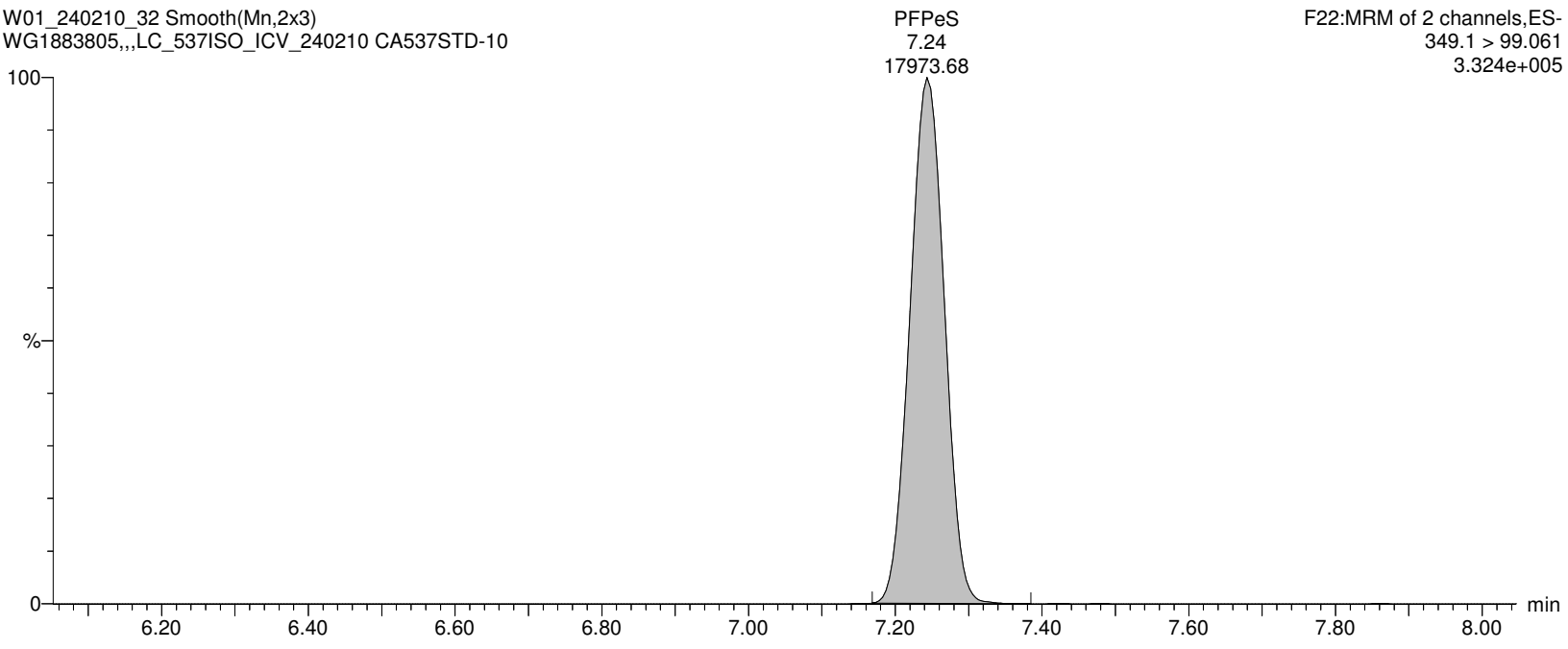

all concentration units in (ng/mL)

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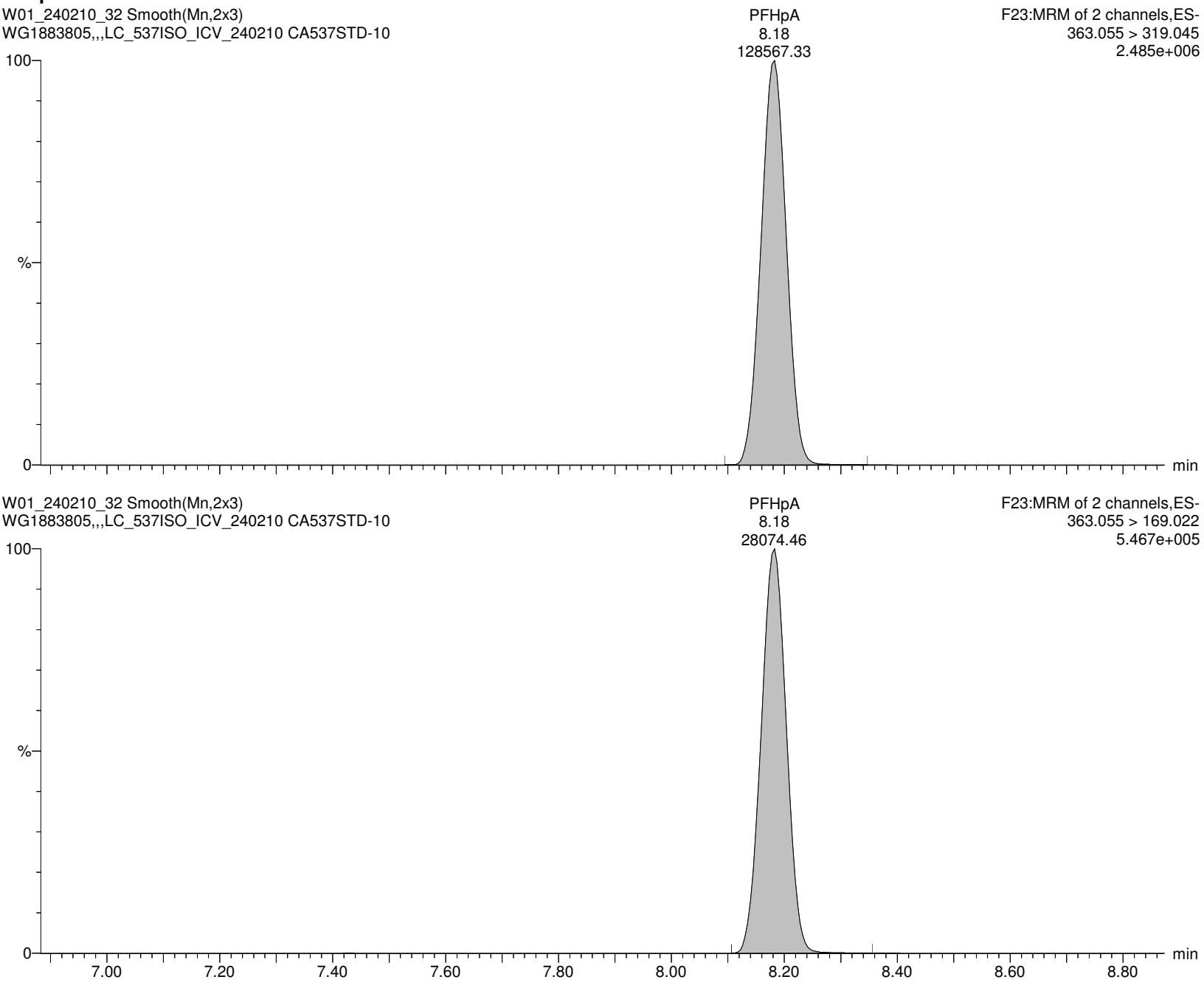

all concentration units in (ng/mL)

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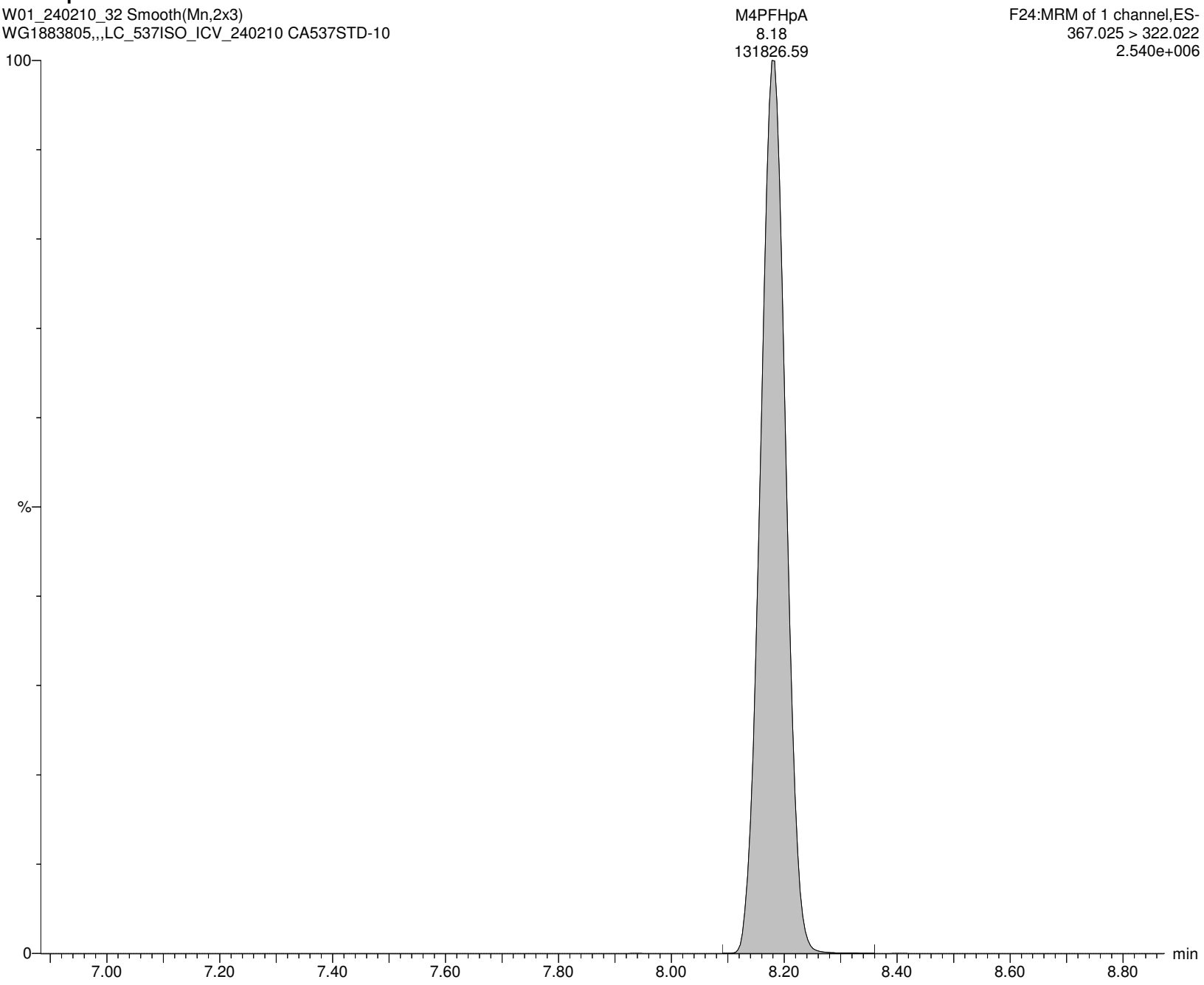

all concentration units in (ng/mL)

Alpha Analytical Inc.
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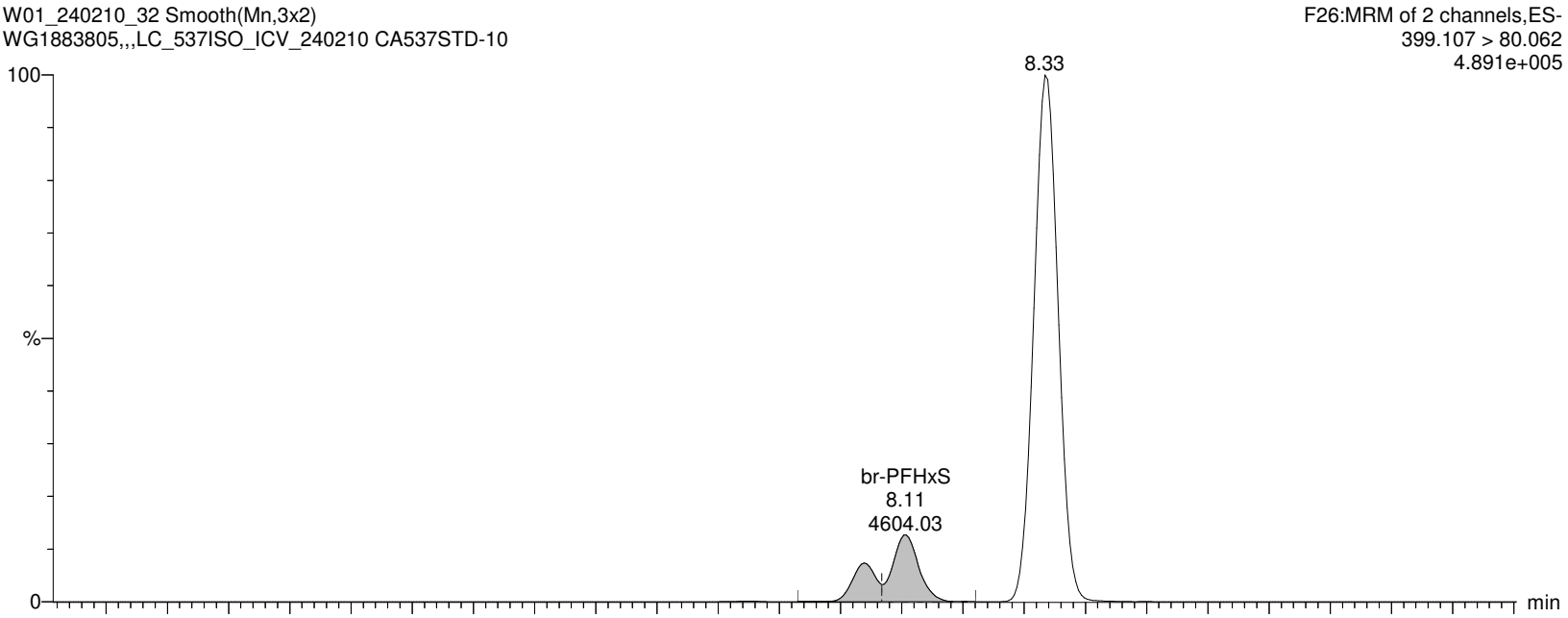

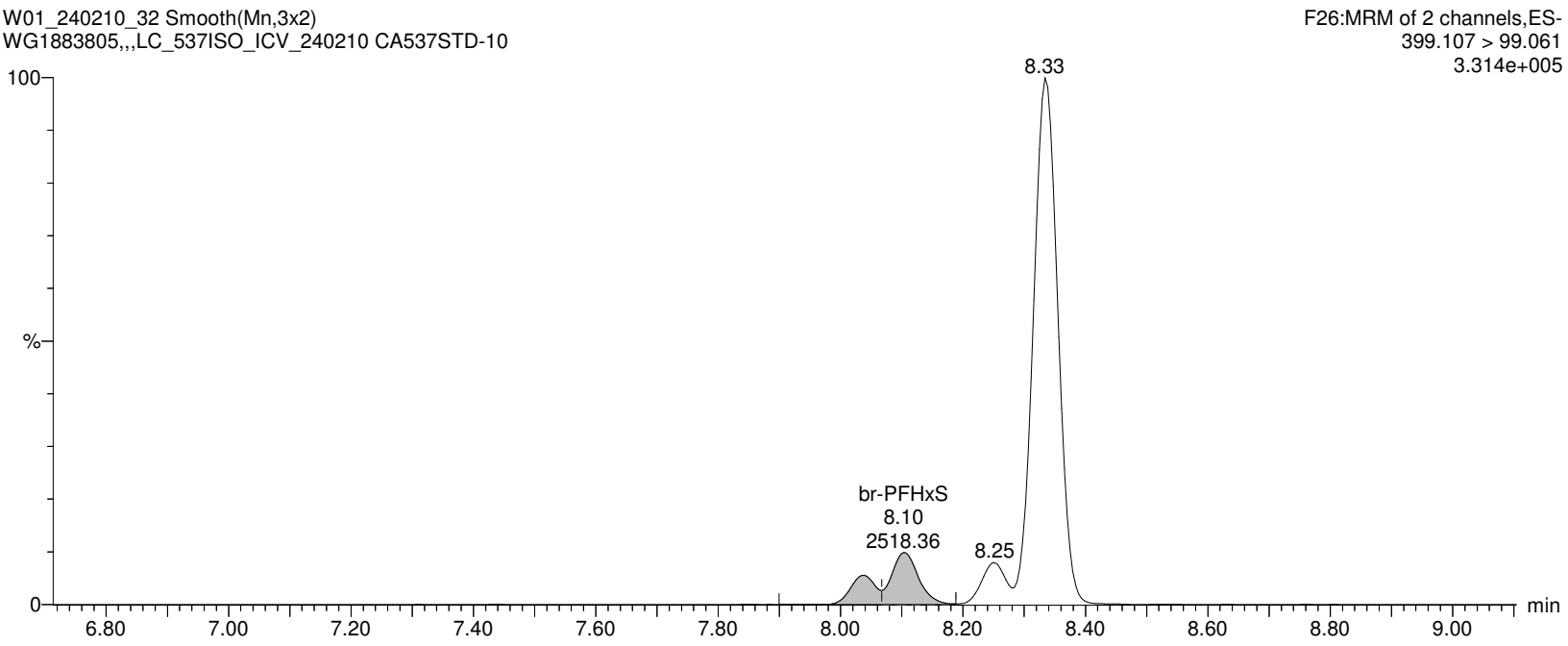

all concentration units in (ng/mL)

Alpha Analytical Inc.
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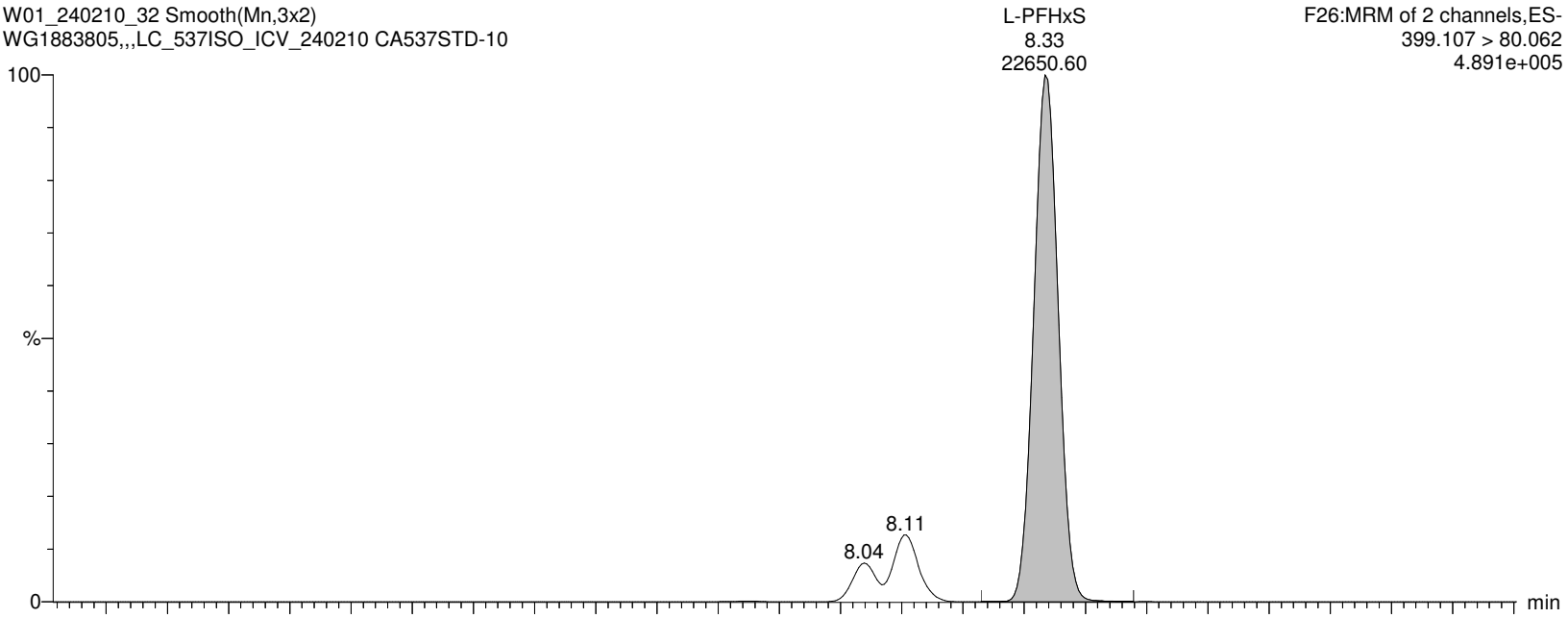

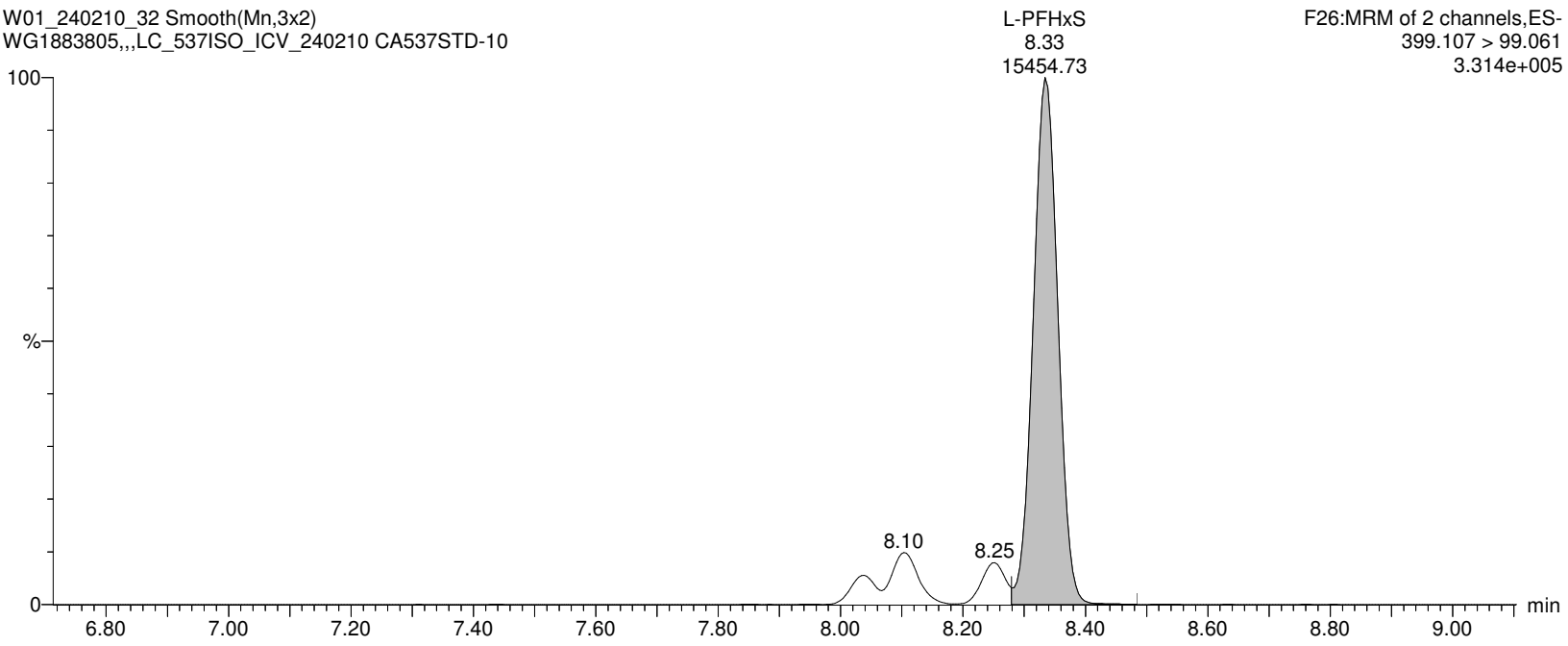

all concentration units in (ng/mL)

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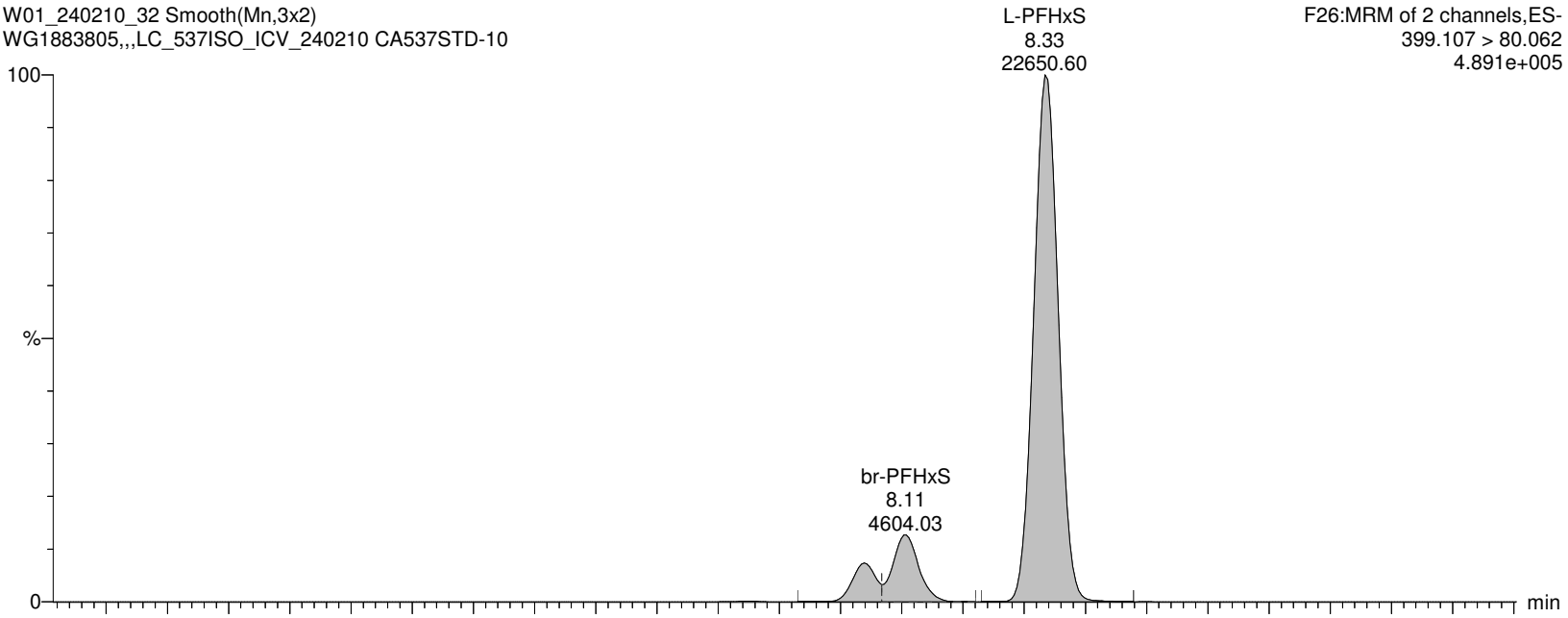

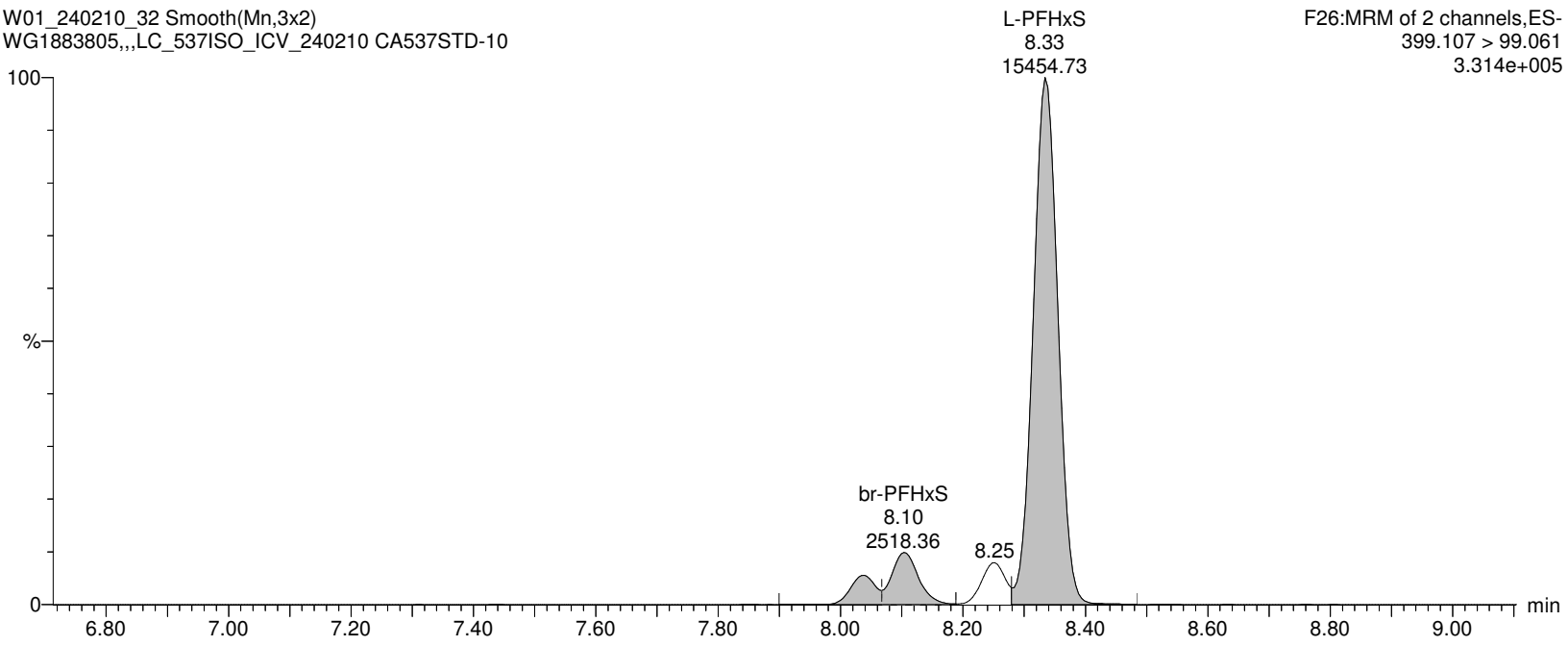

all concentration units in (ng/mL)

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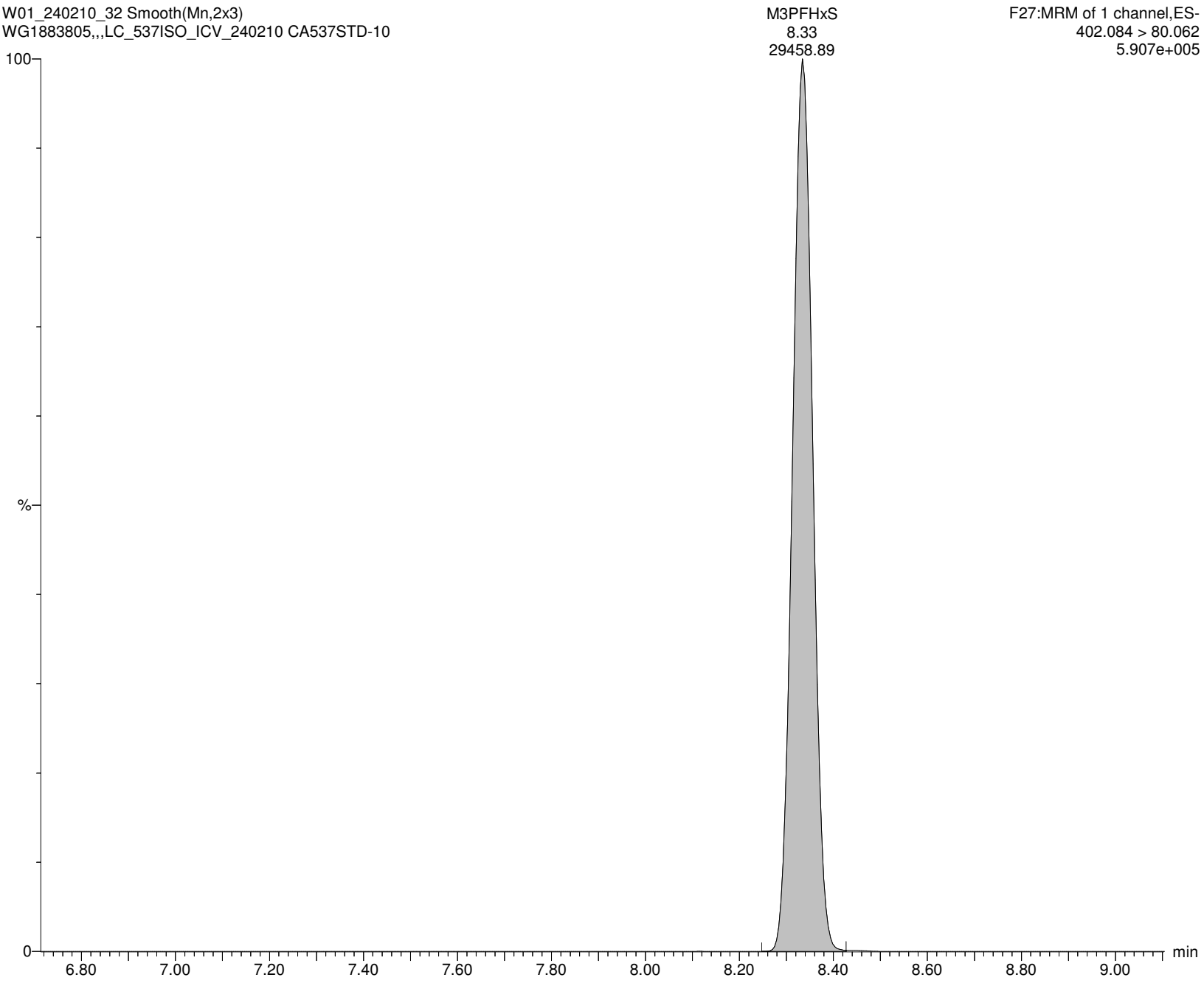

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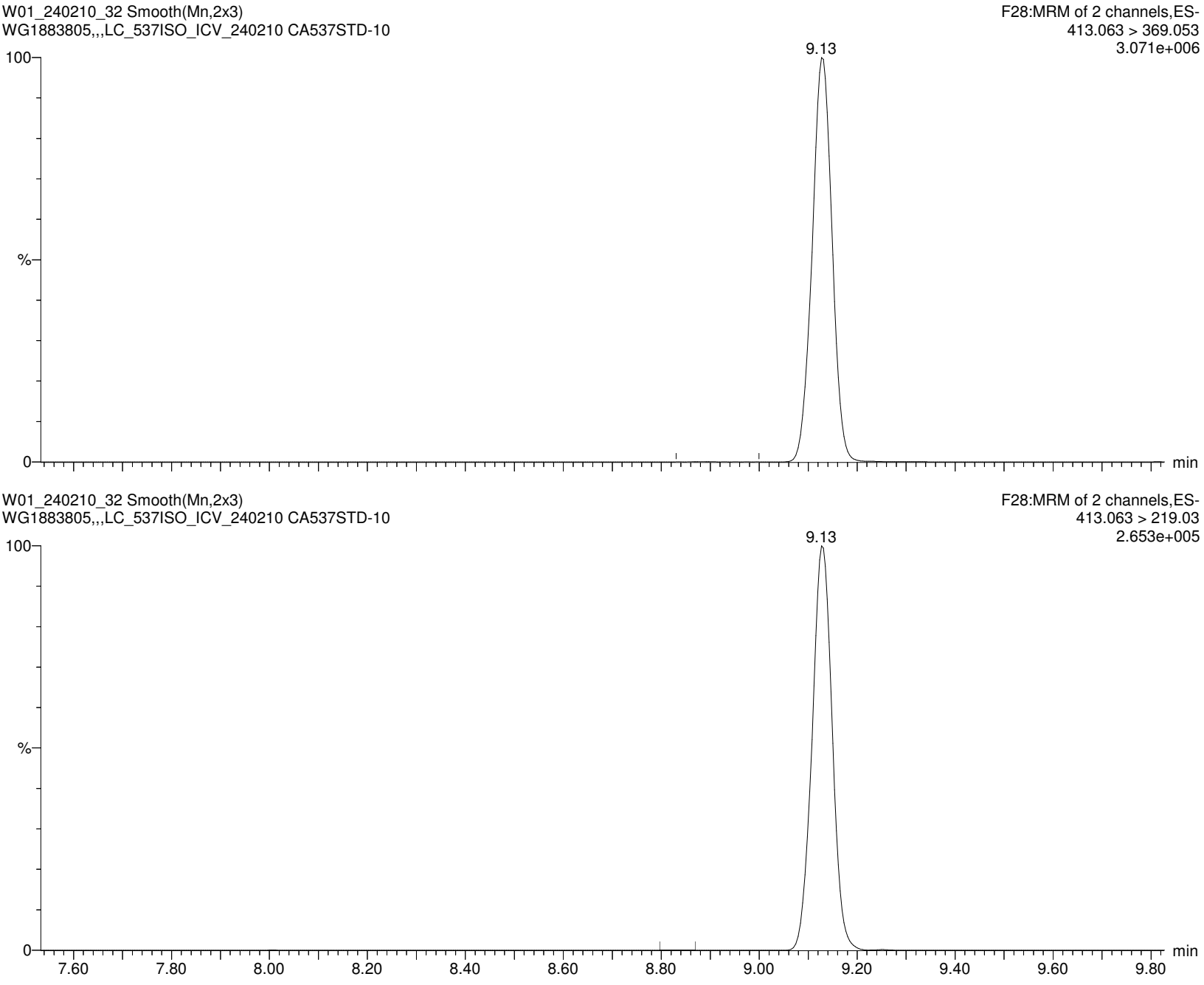

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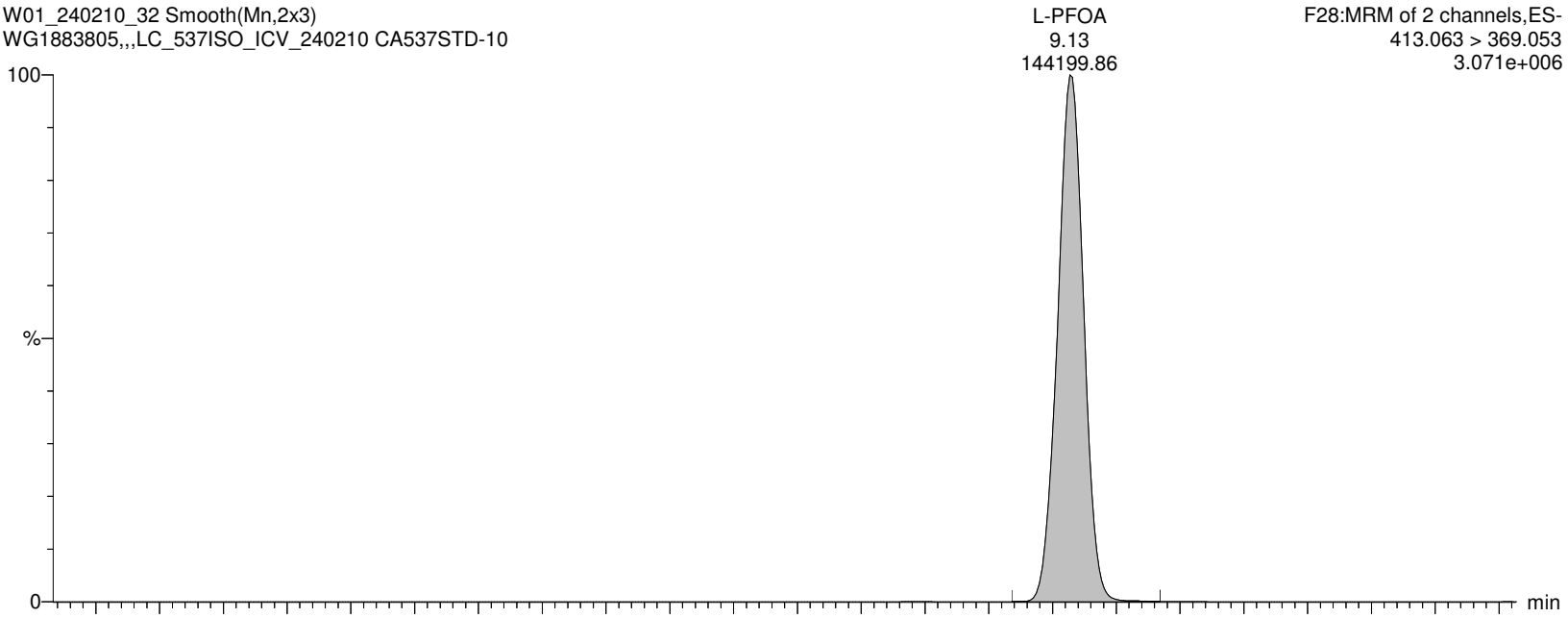
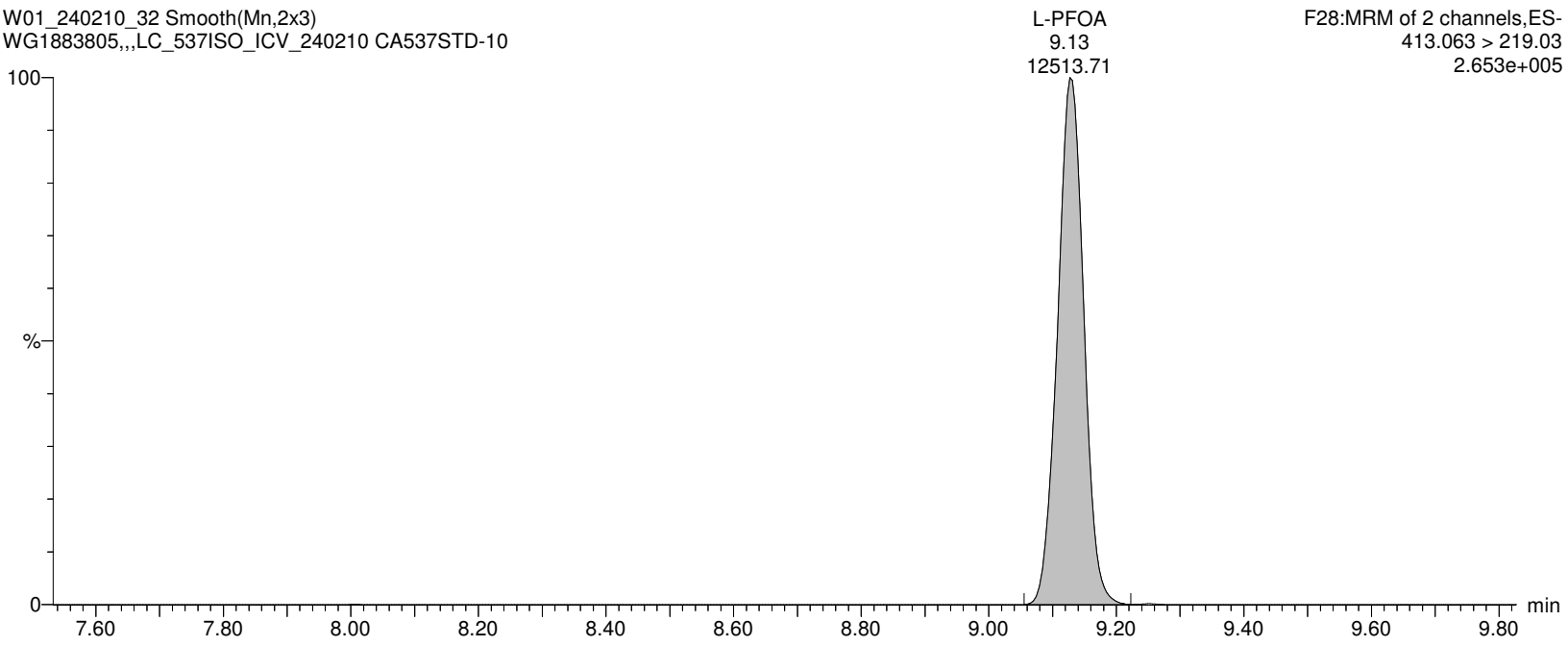
L-PFOA





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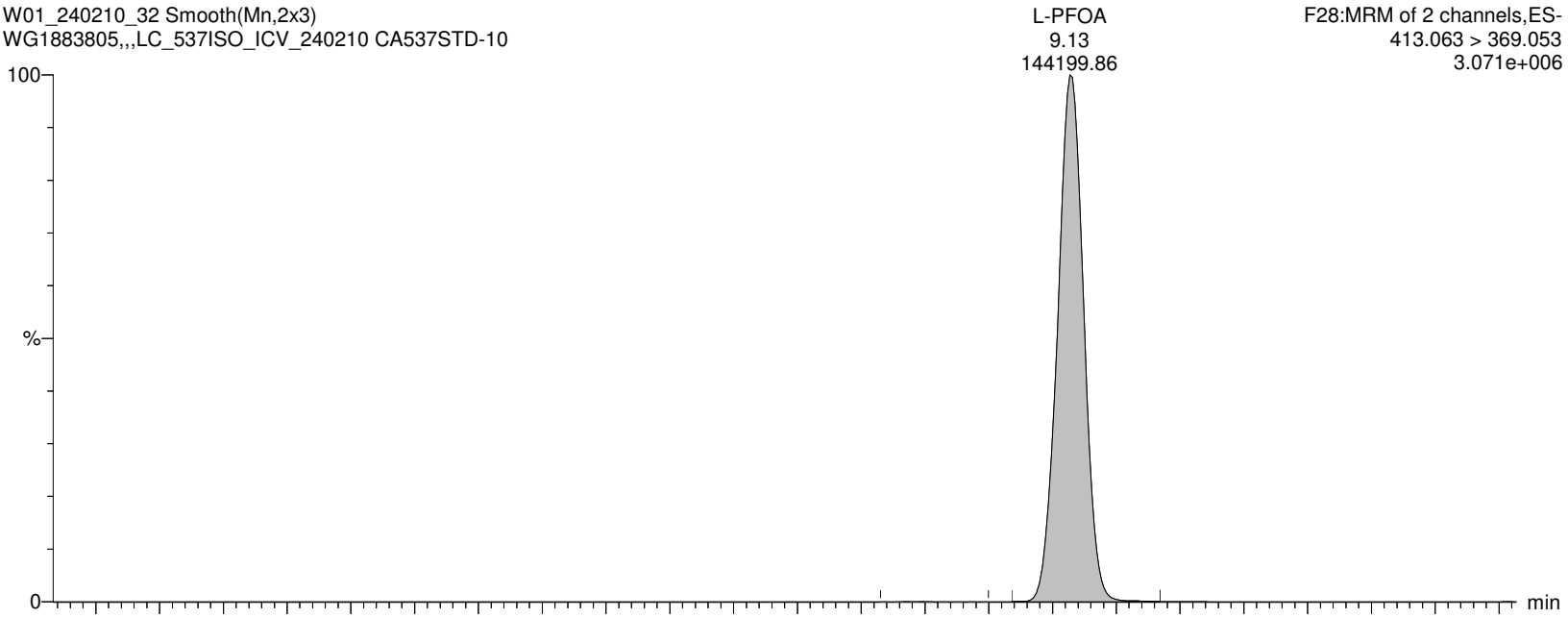

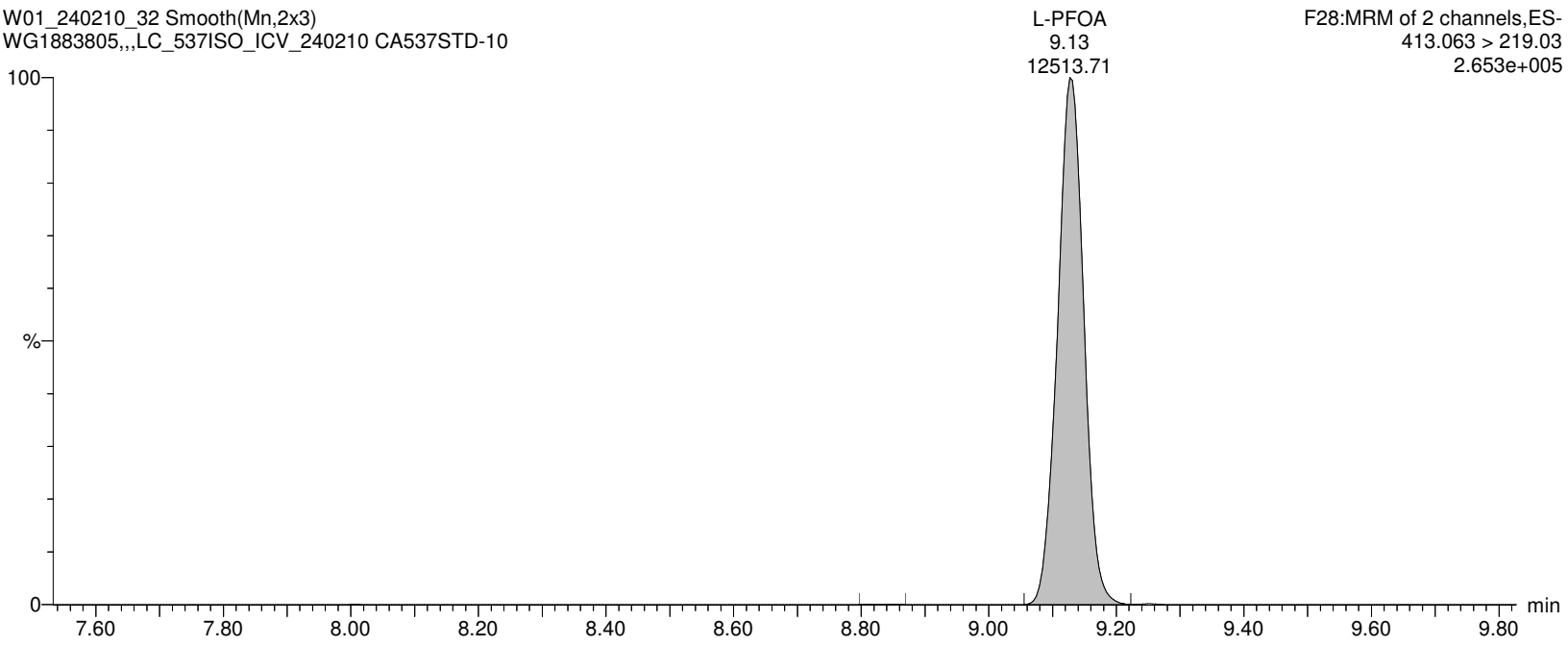

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

Name: W01_240210_32
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Date: 11-Feb-2024
Time: 10:57:05
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User: LCMS01:SG
Vial: 1:C,2
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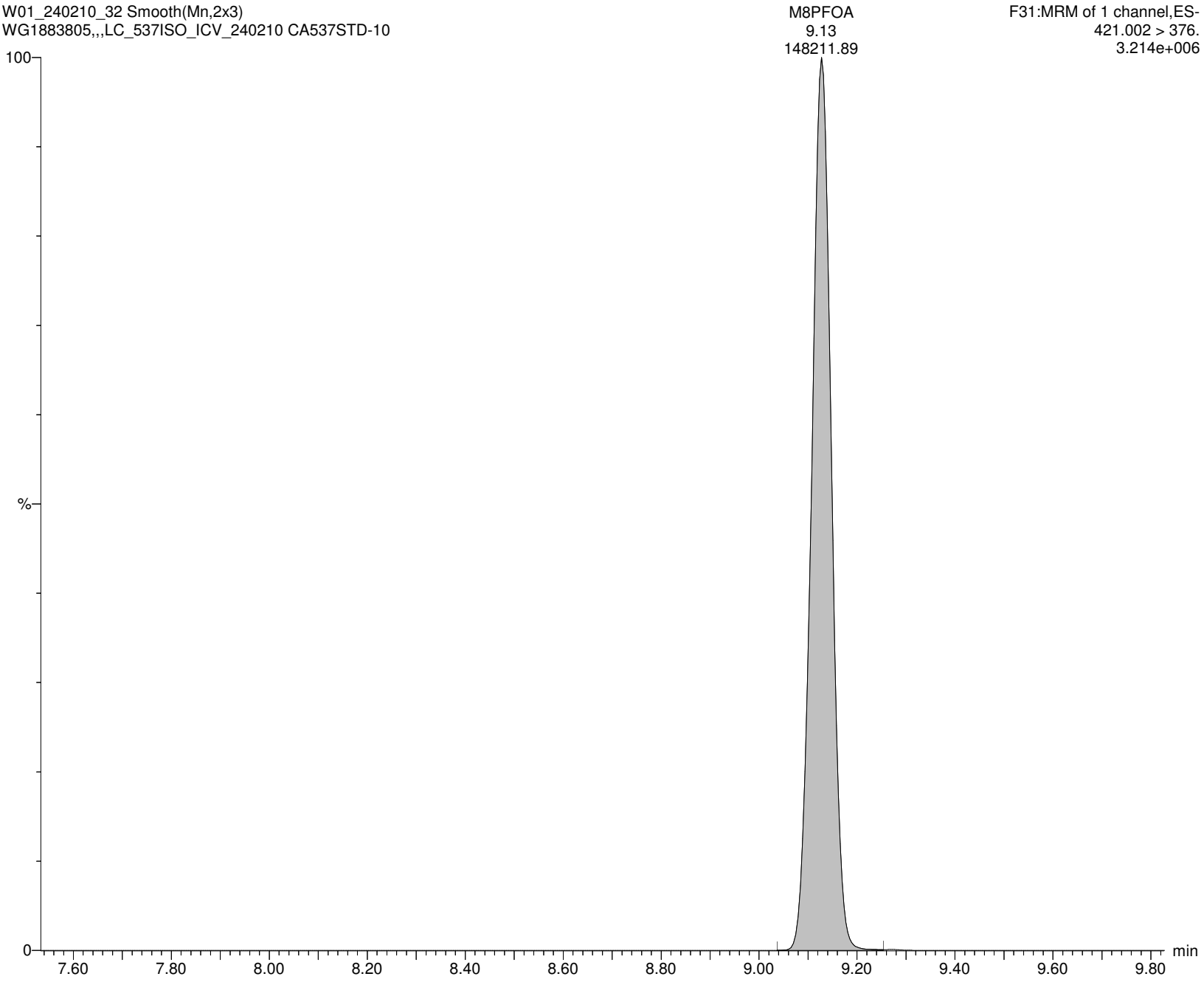

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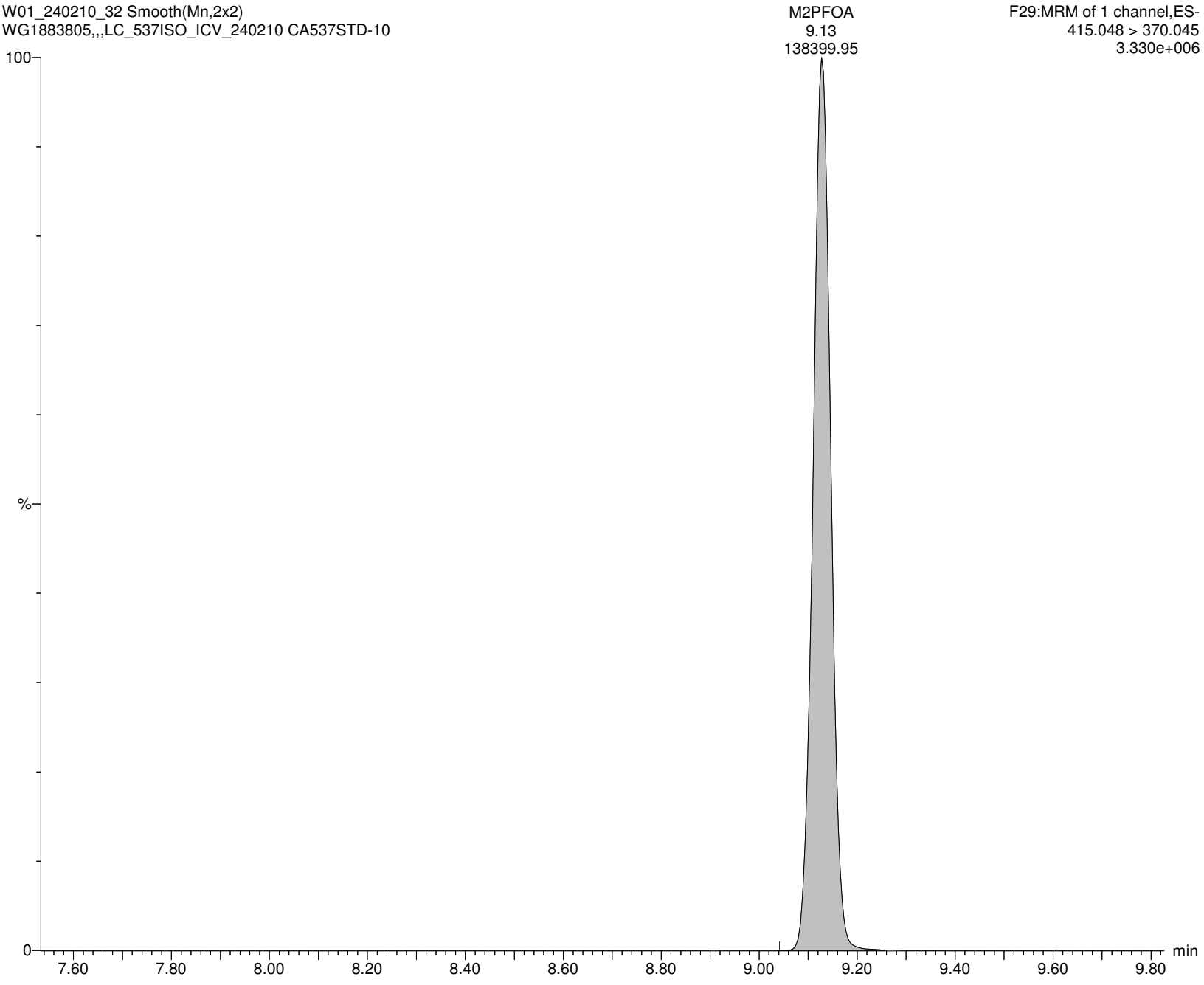

all concentration units in (ng/mL)

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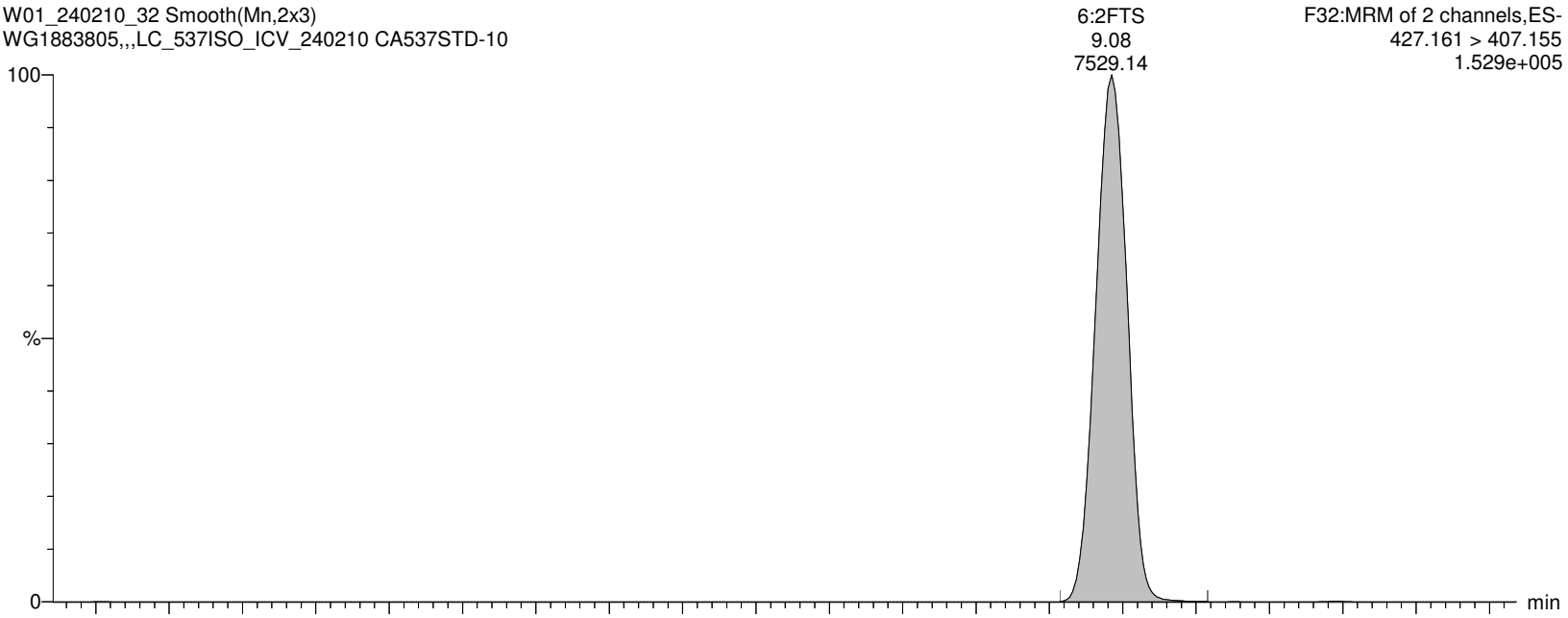
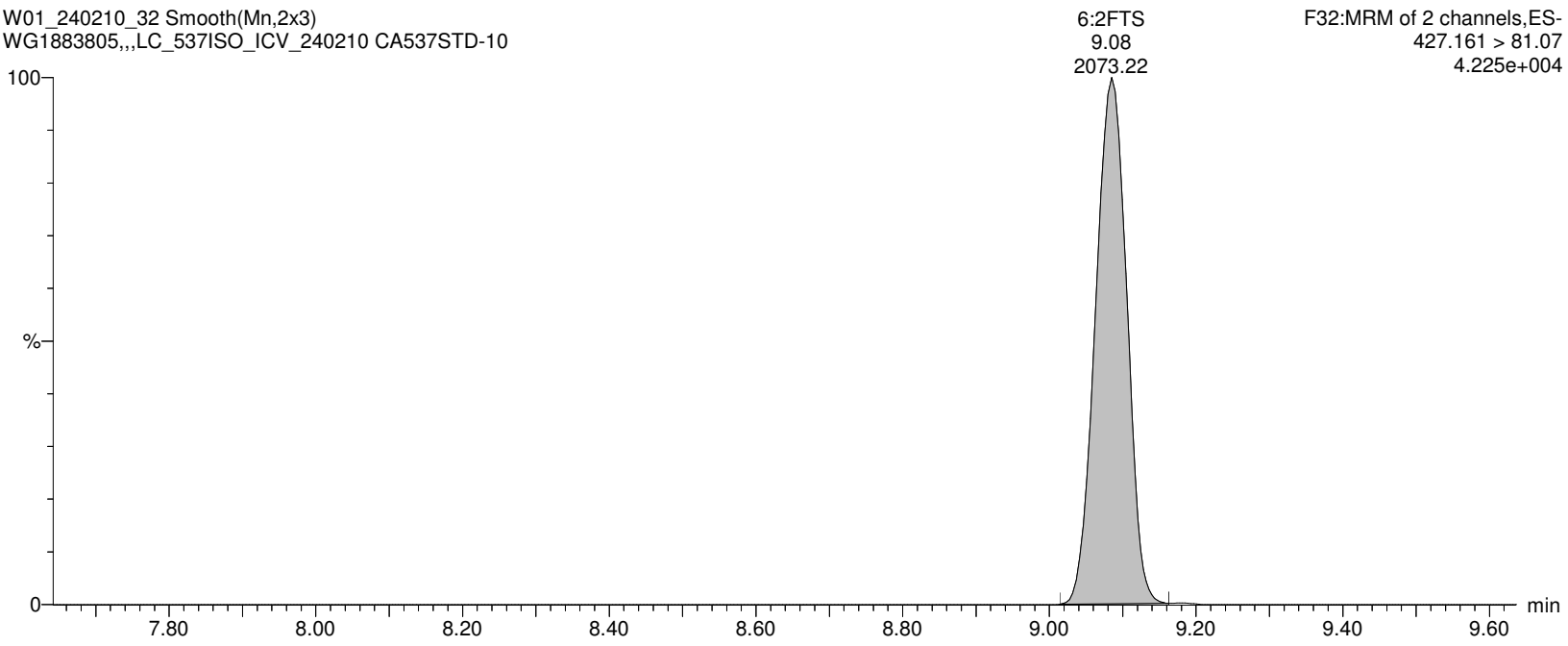
6:2FTS





all concentration units in (ng/mL)

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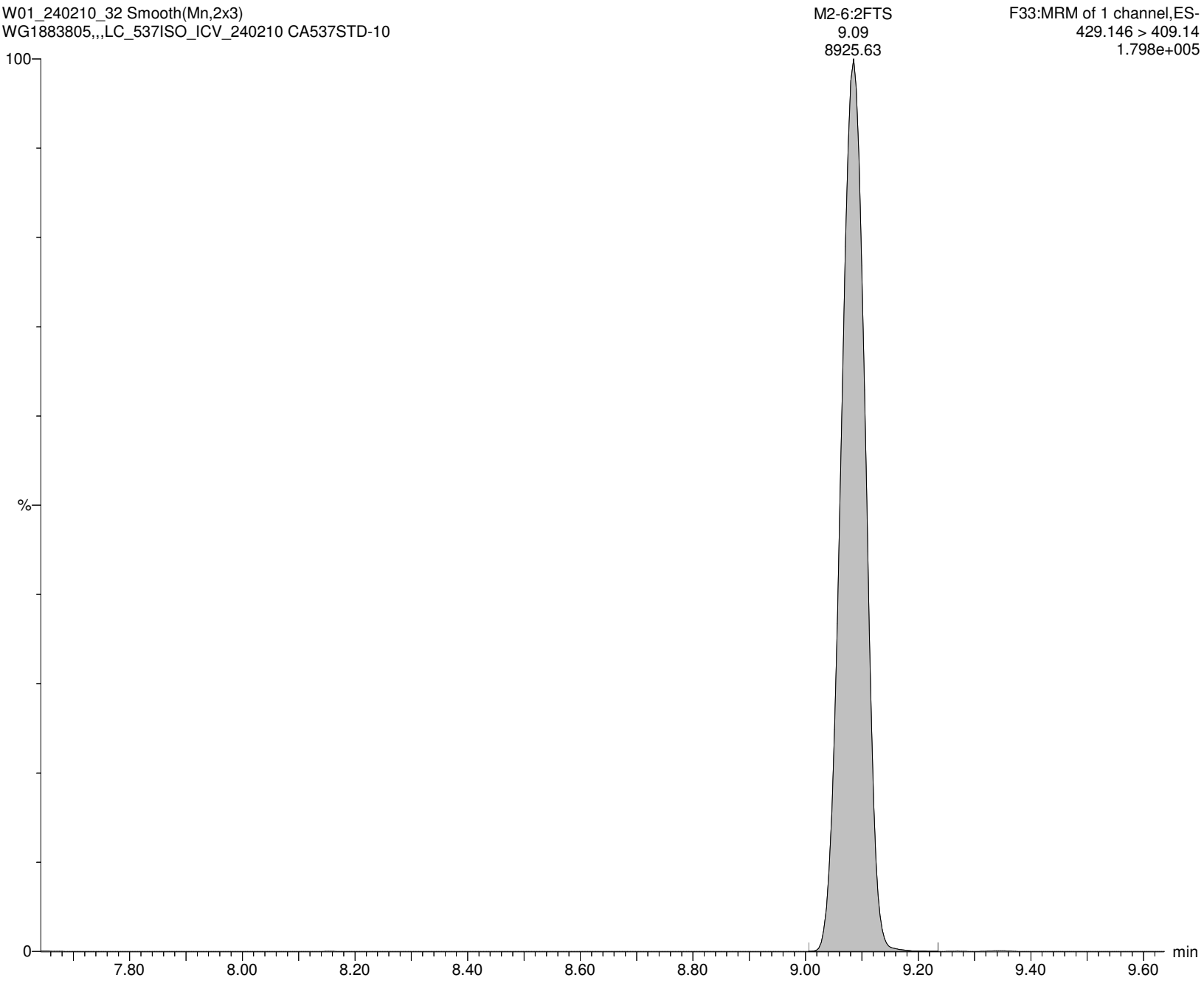

all concentration units in (ng/mL)

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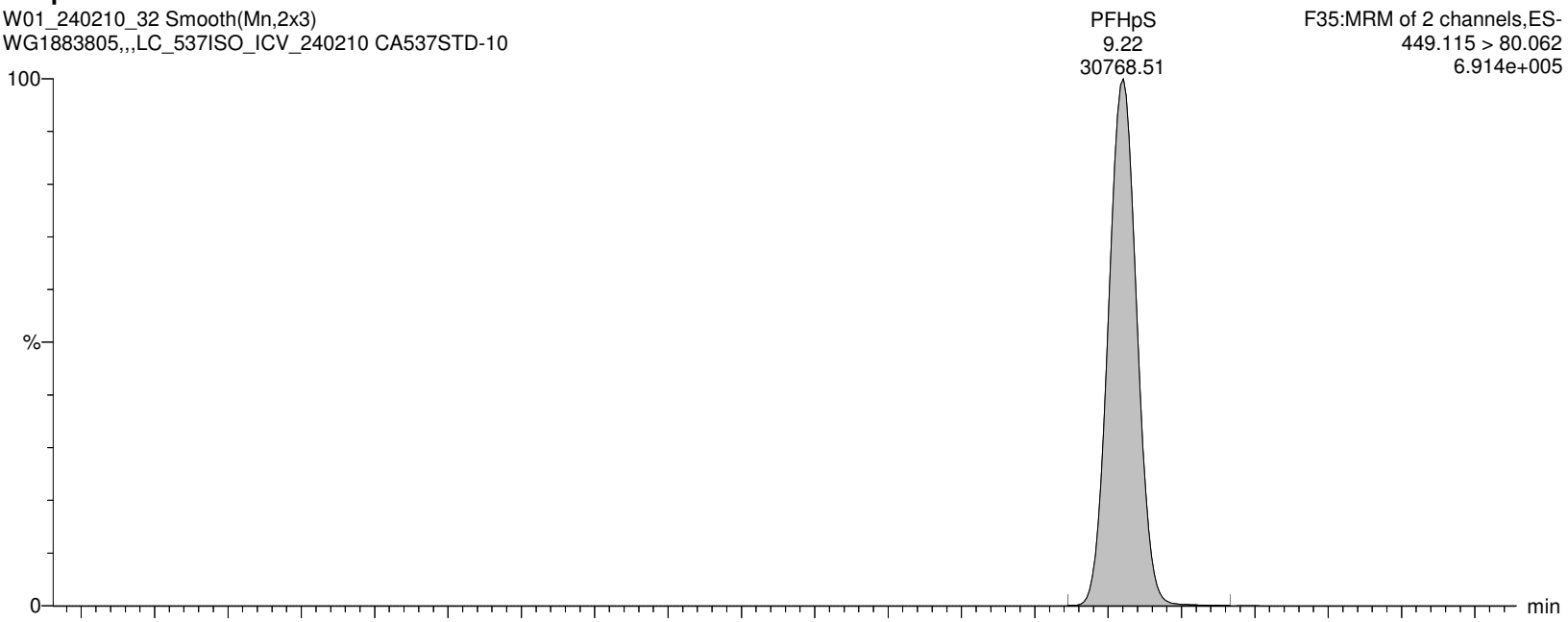

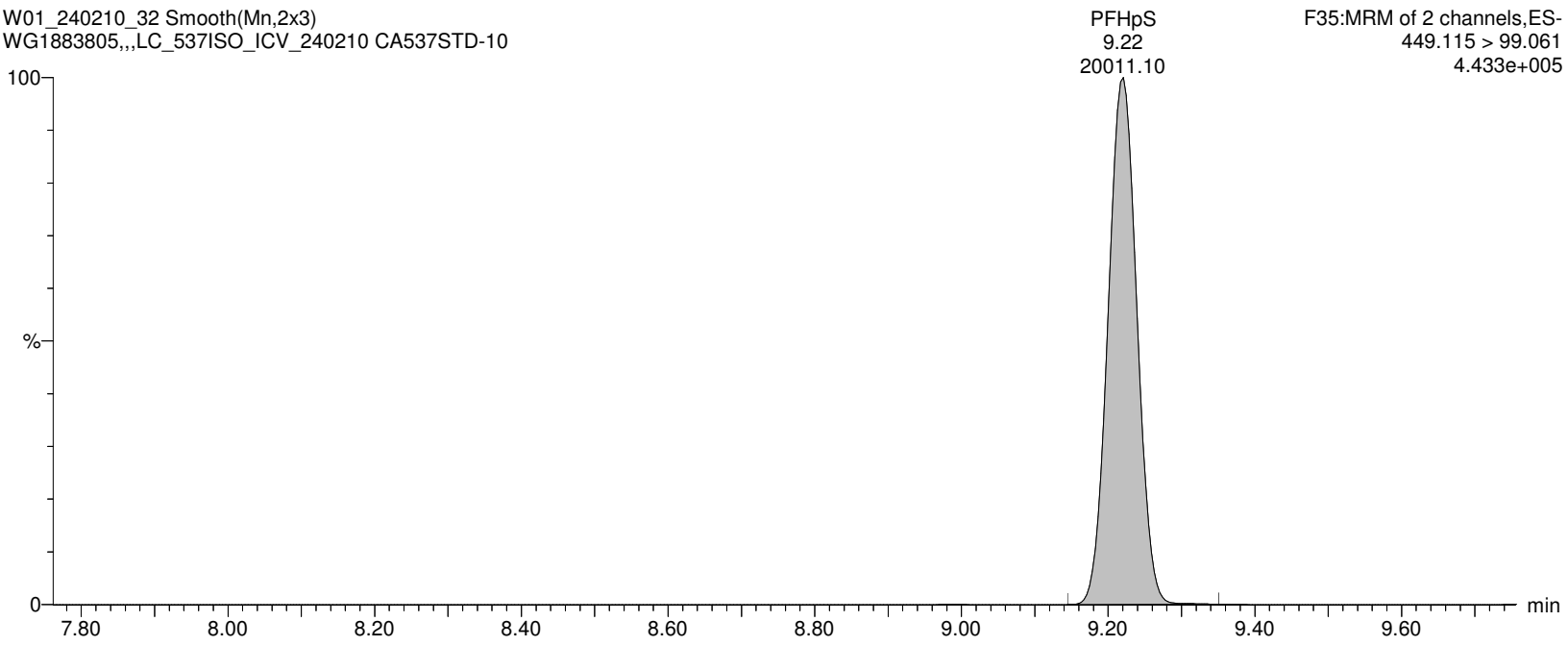

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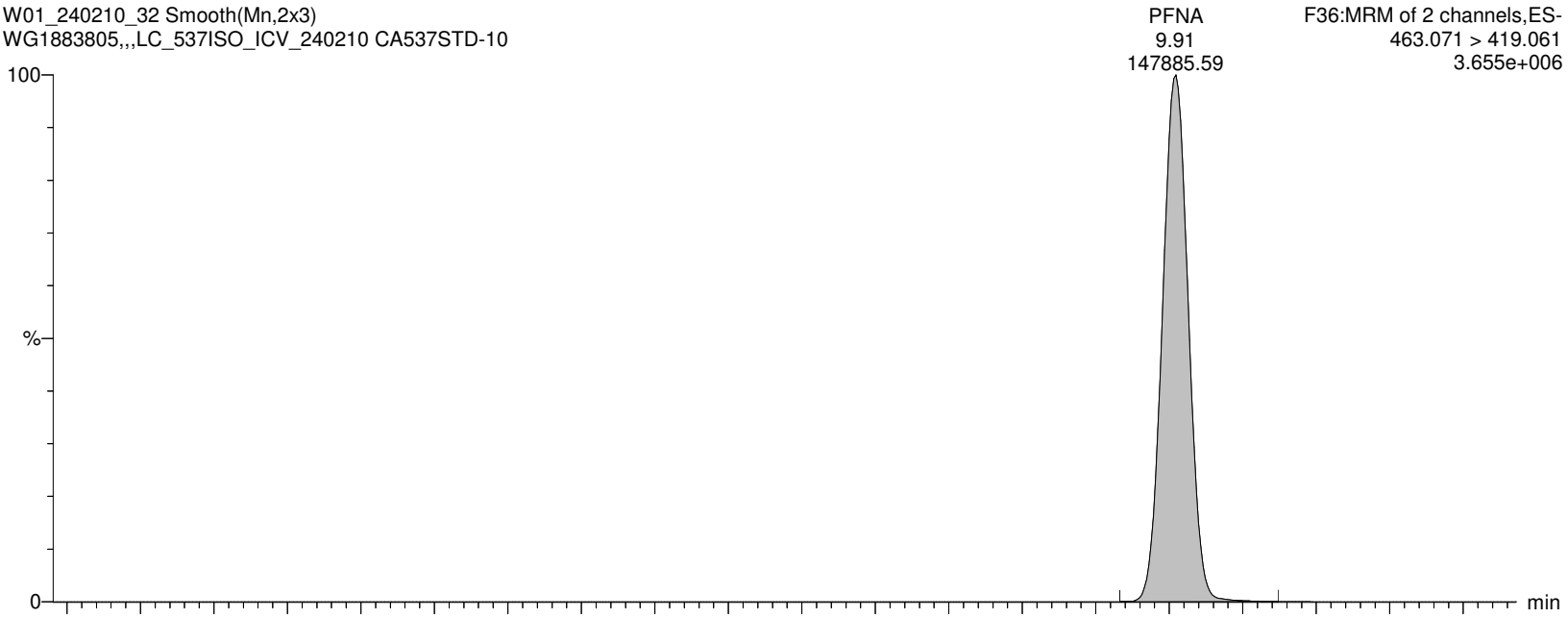

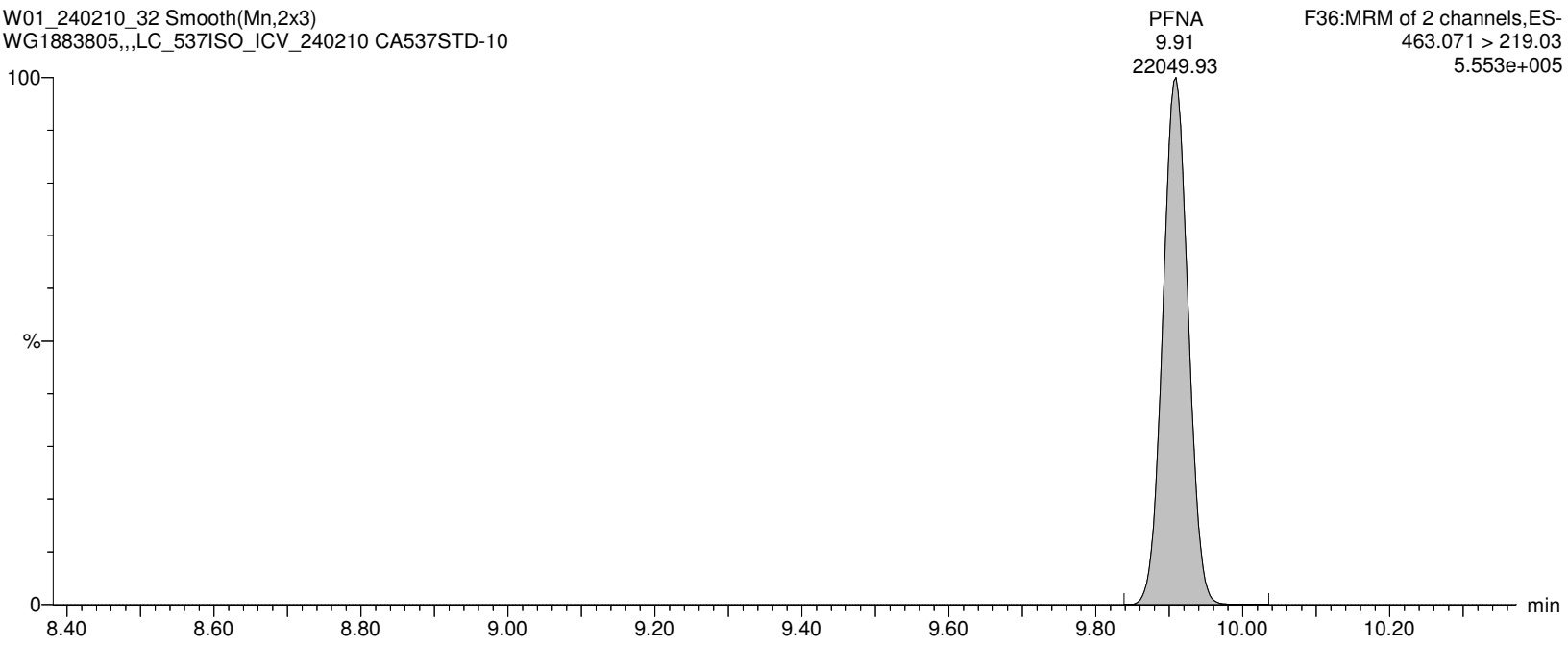

all concentration units in (ng/mL)

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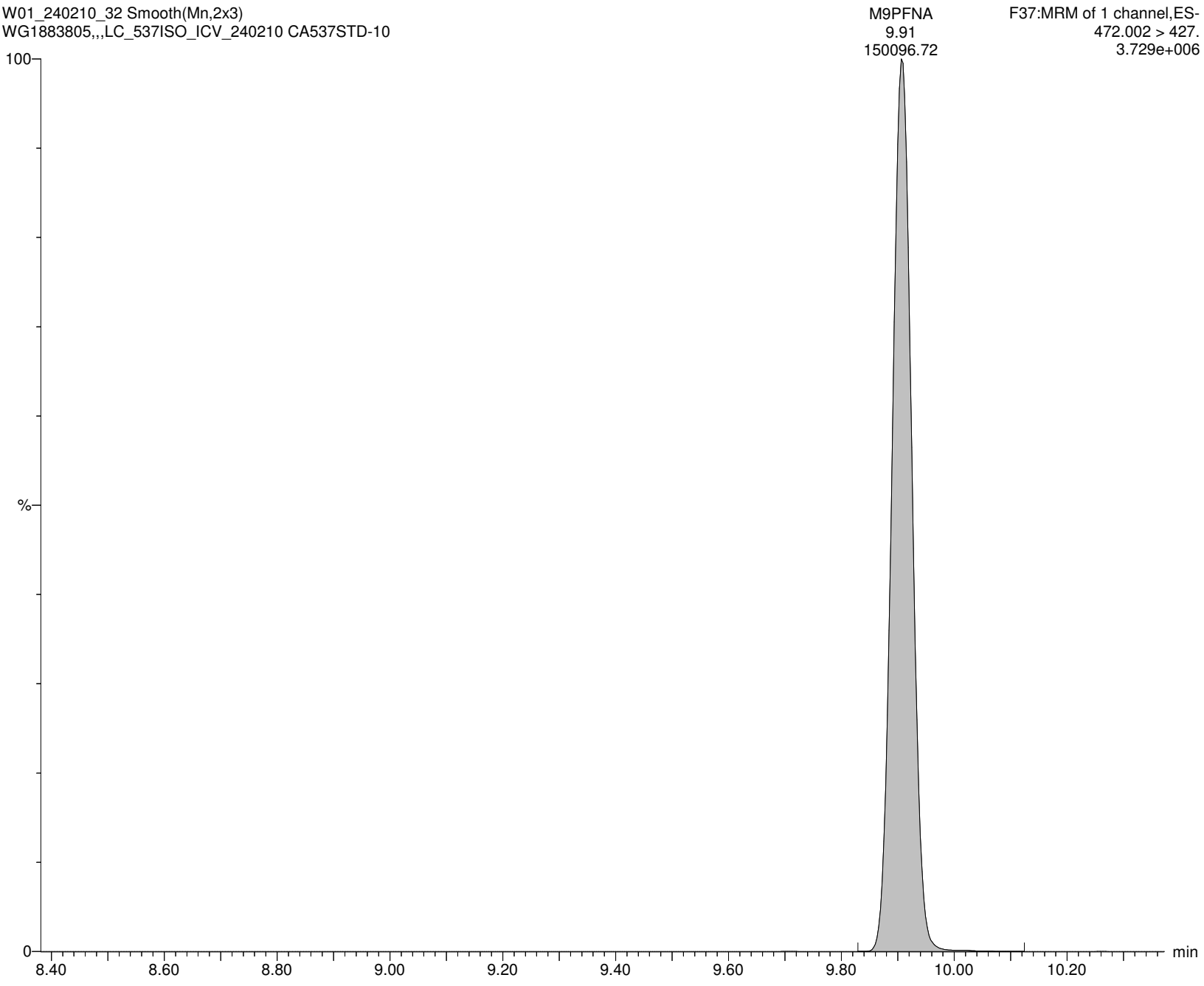

all concentration units in (ng/mL)

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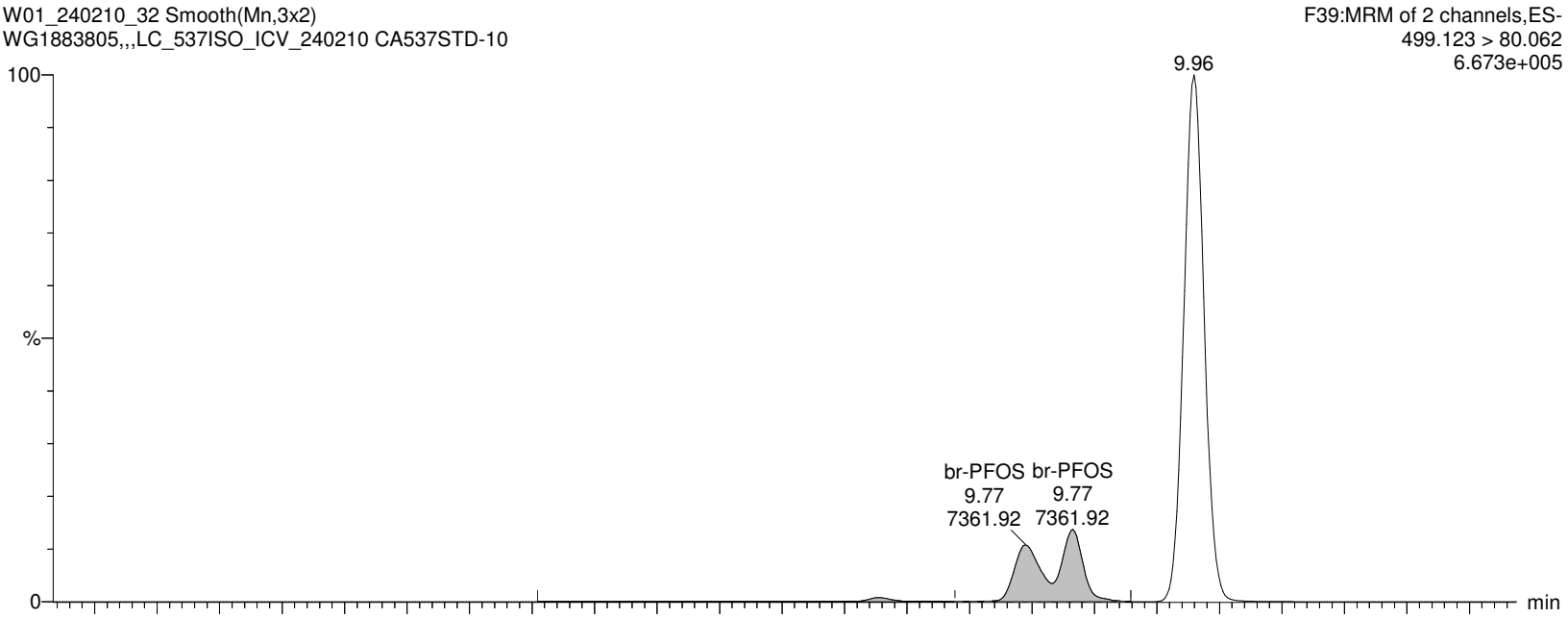

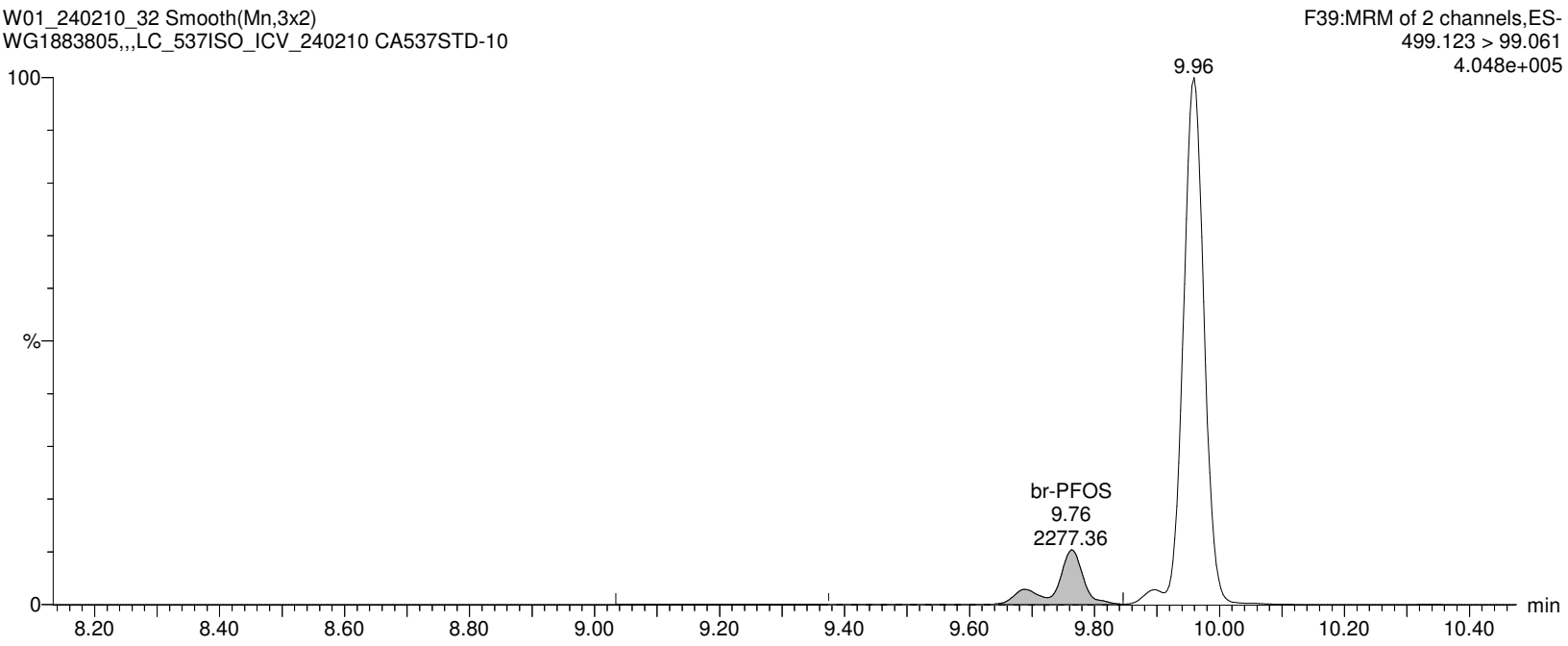

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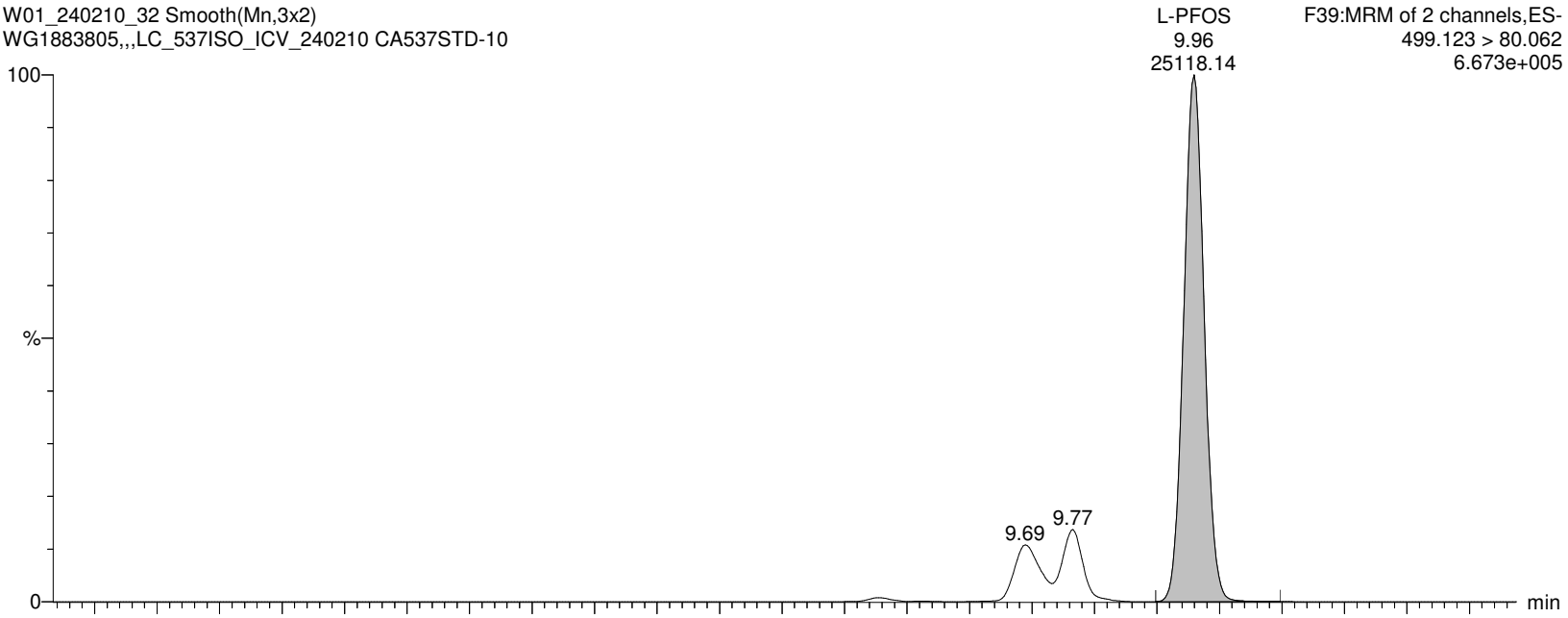

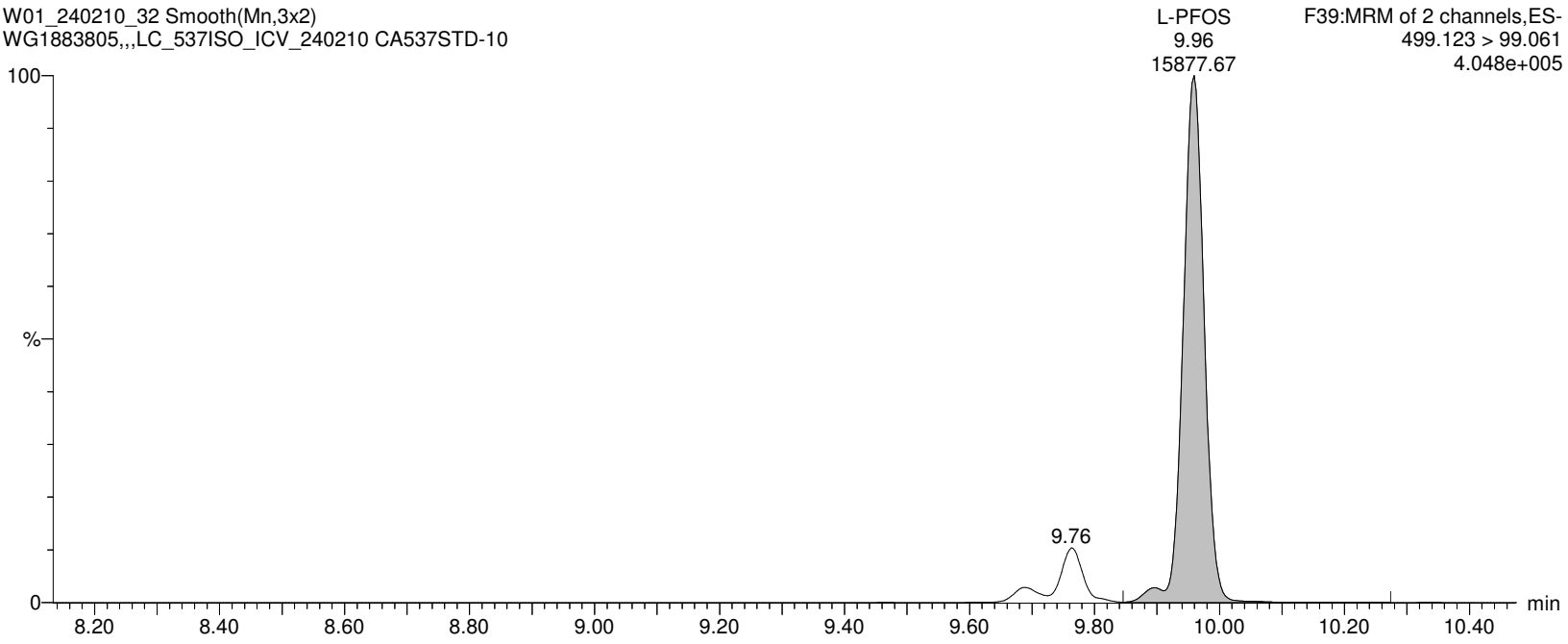

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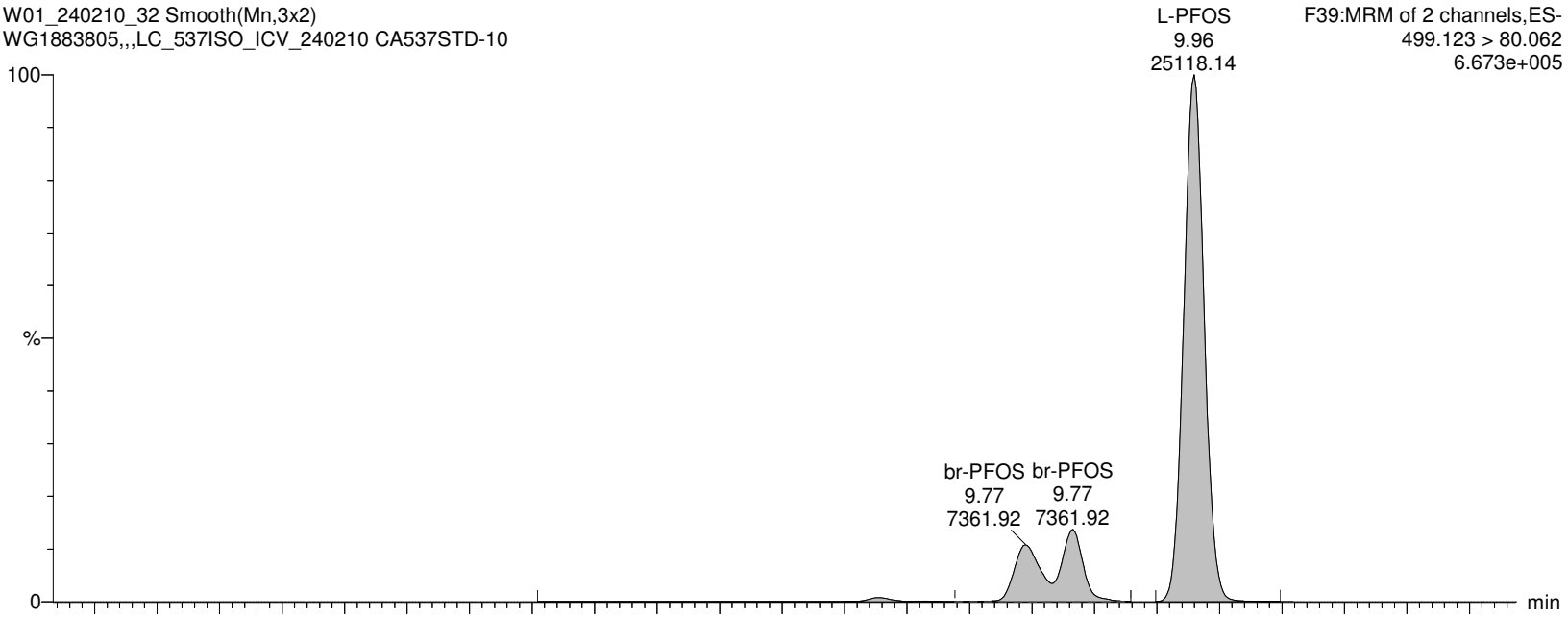

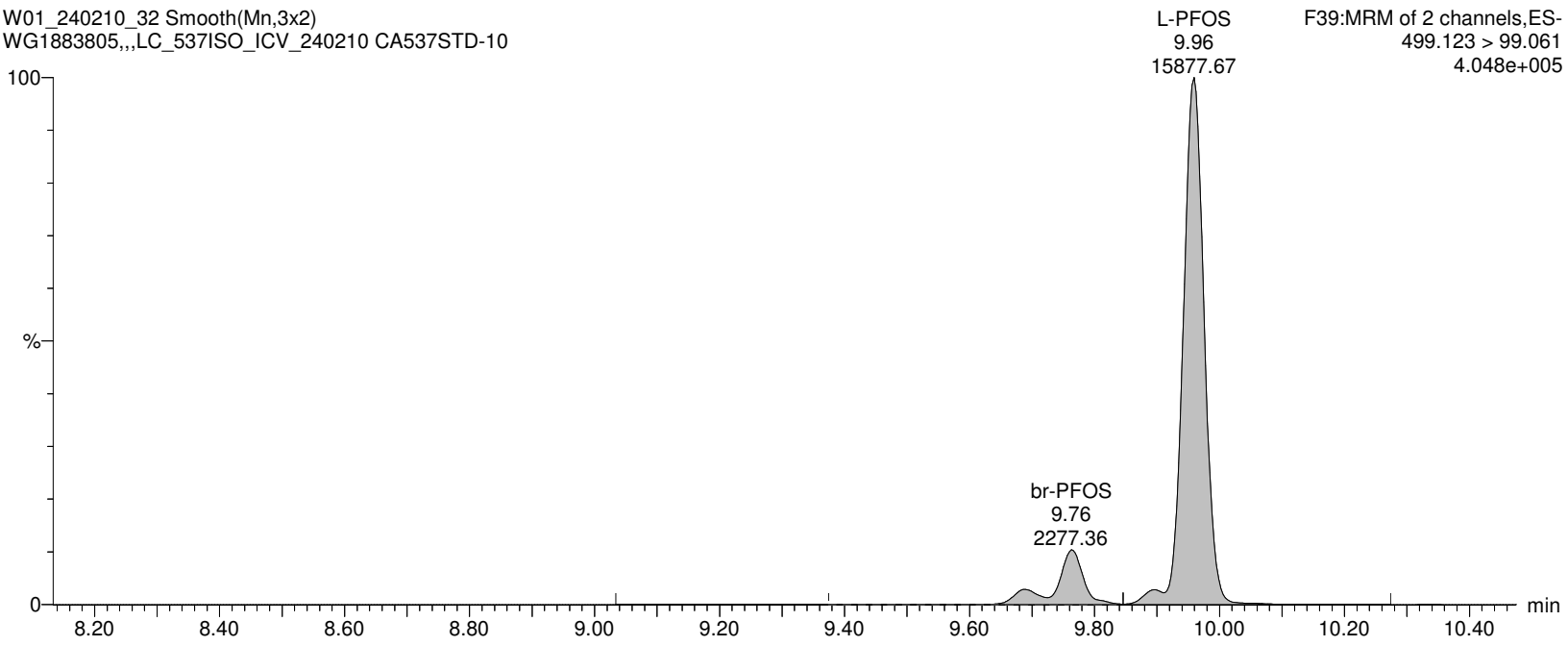

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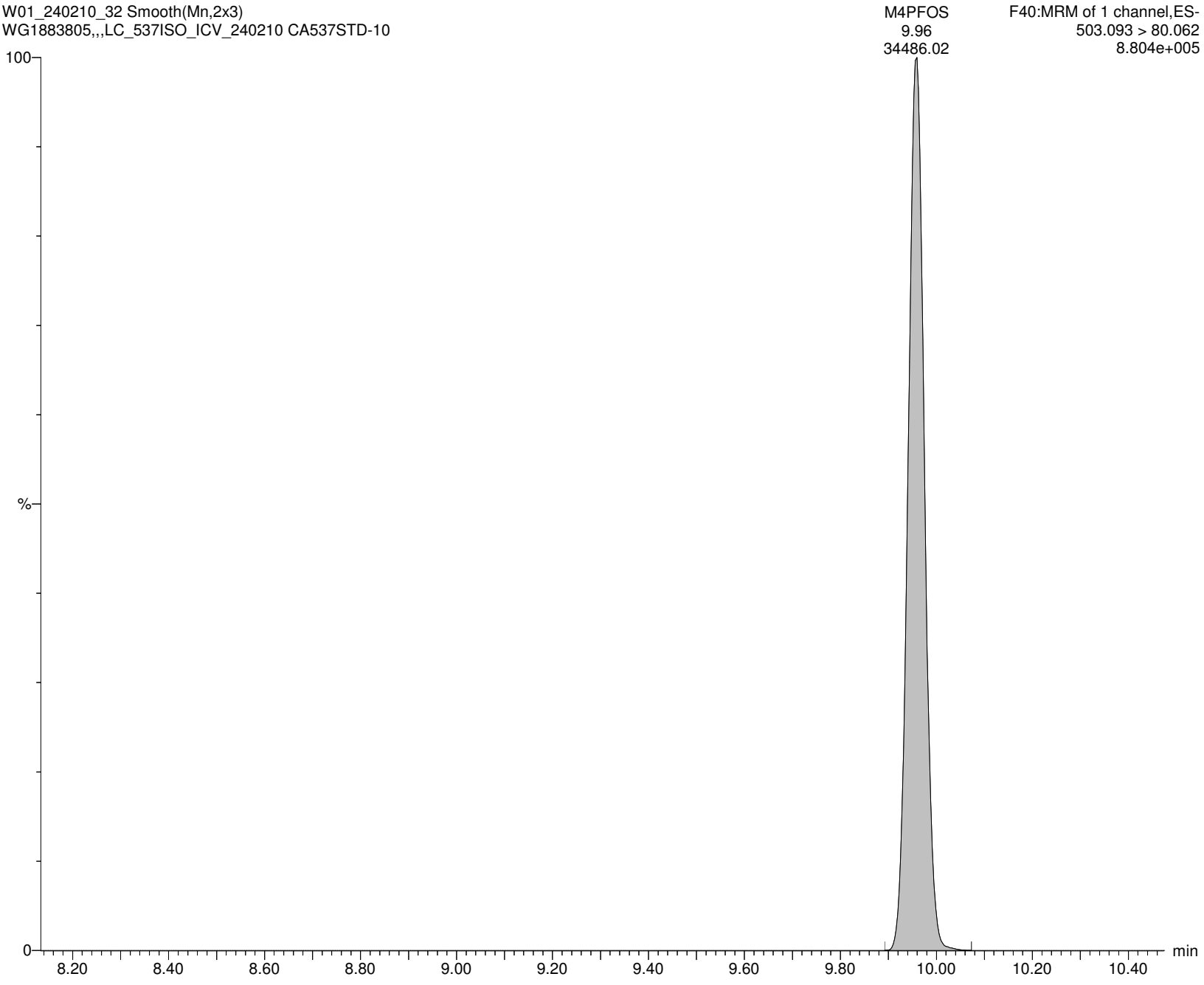
M4PFOS



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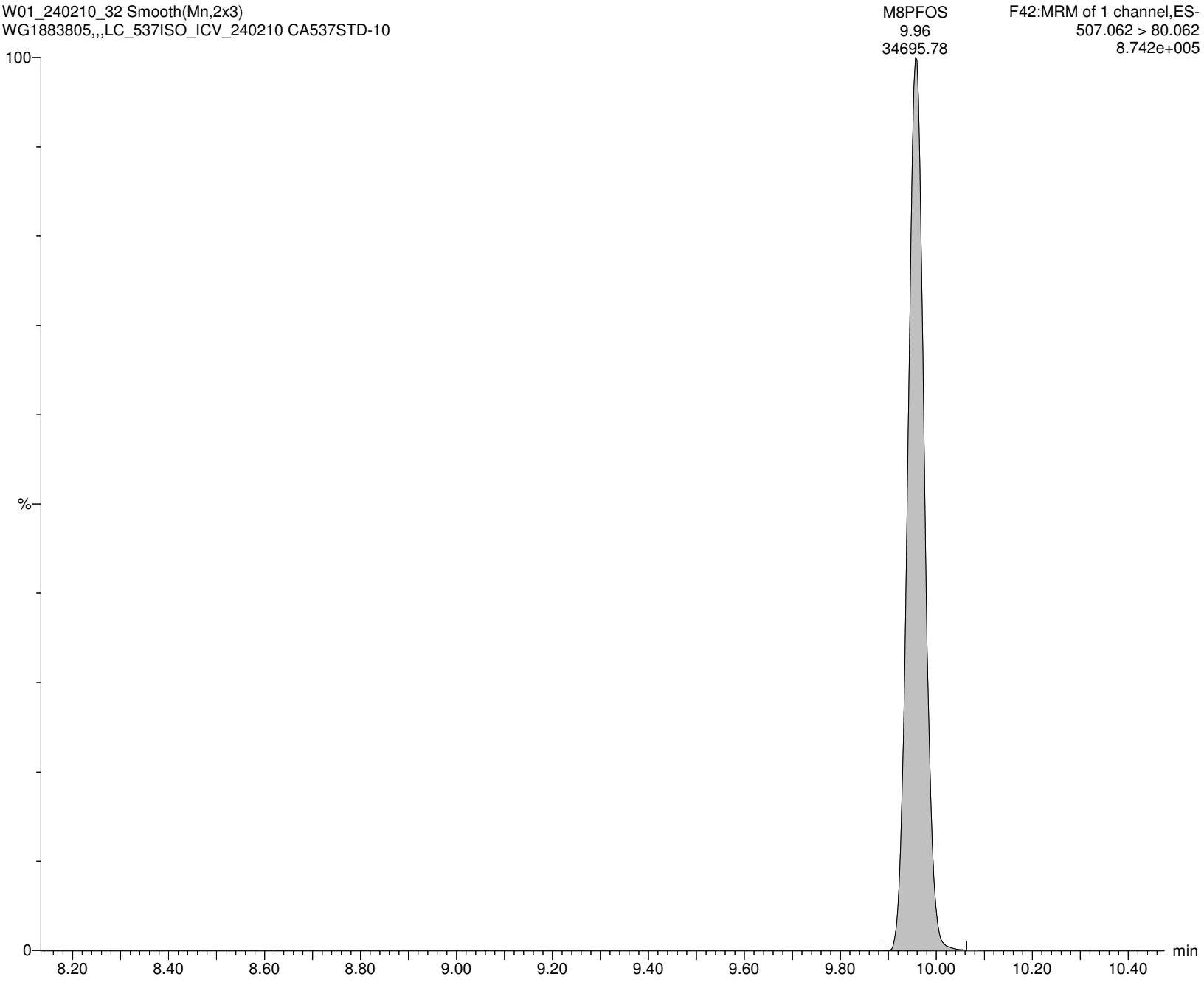
M8PFOS



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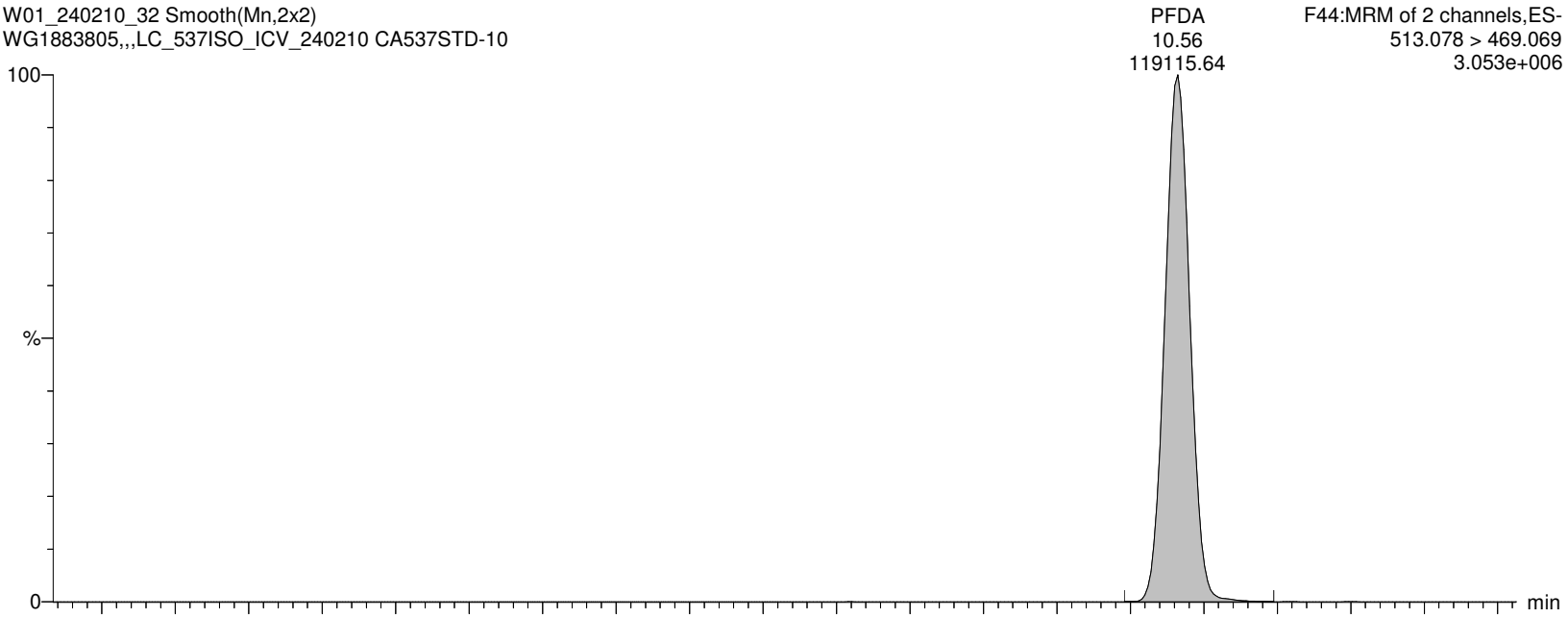
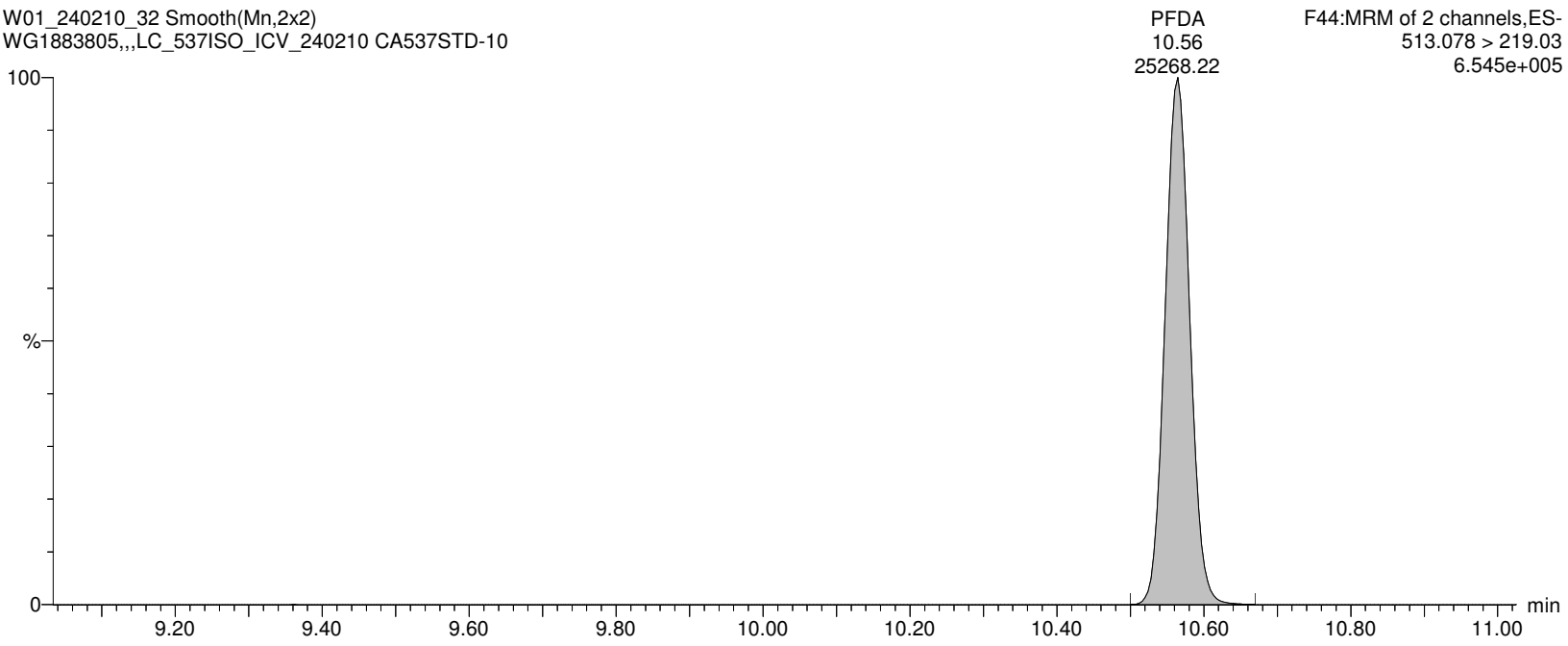
PFDA





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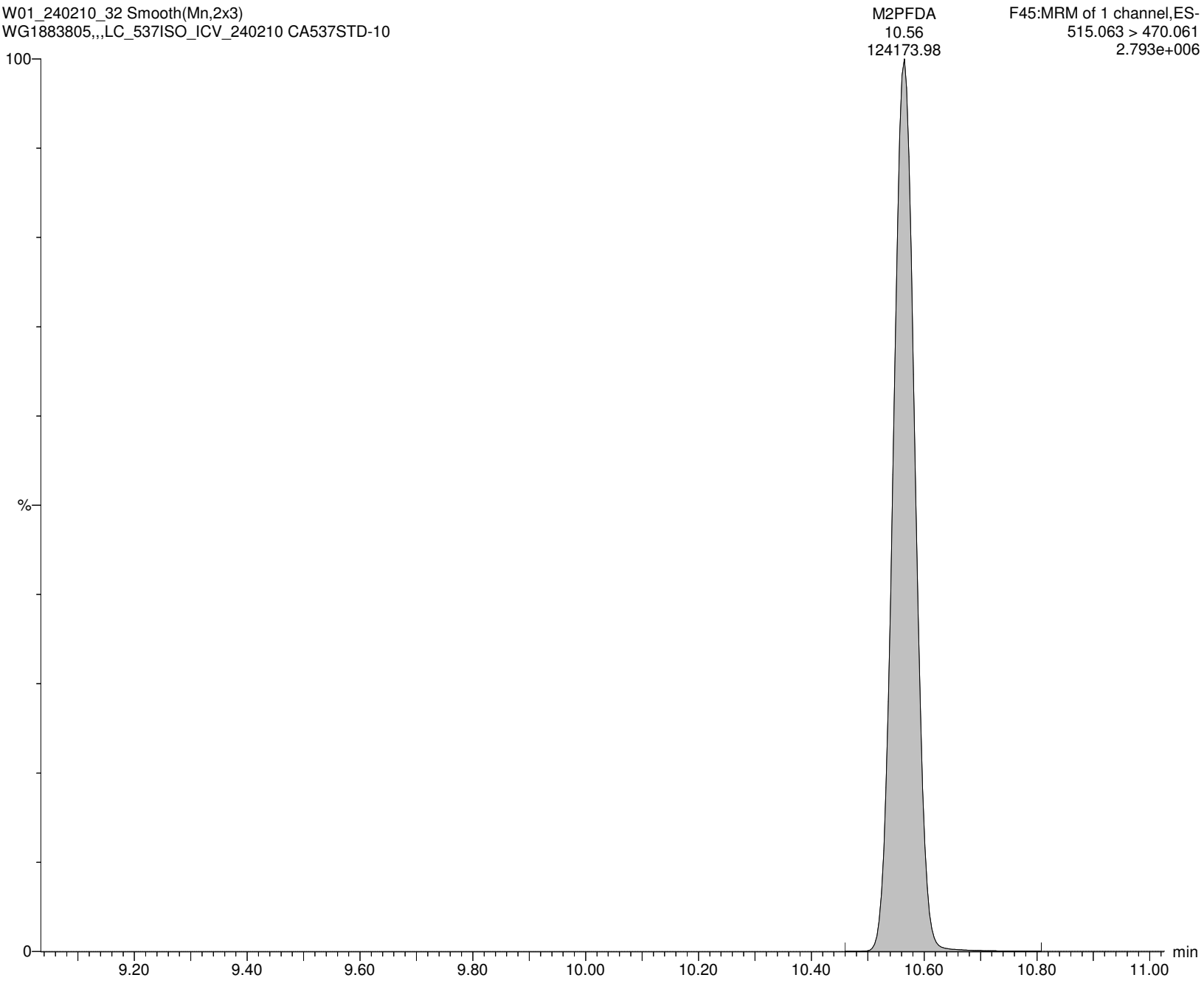

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User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
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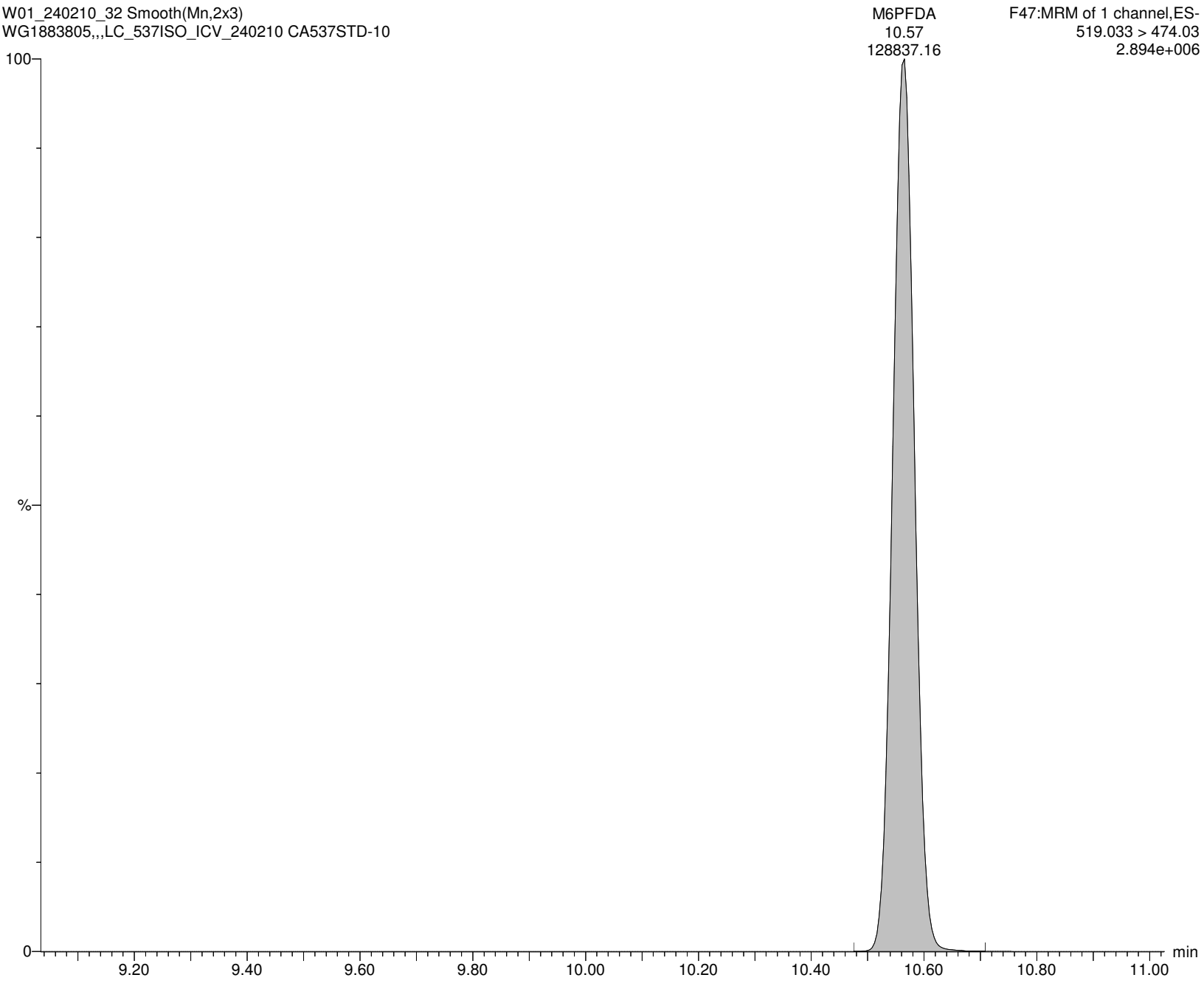

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

Name: W01_240210_32
ID: CA537STD-10
Date: 11-Feb-2024
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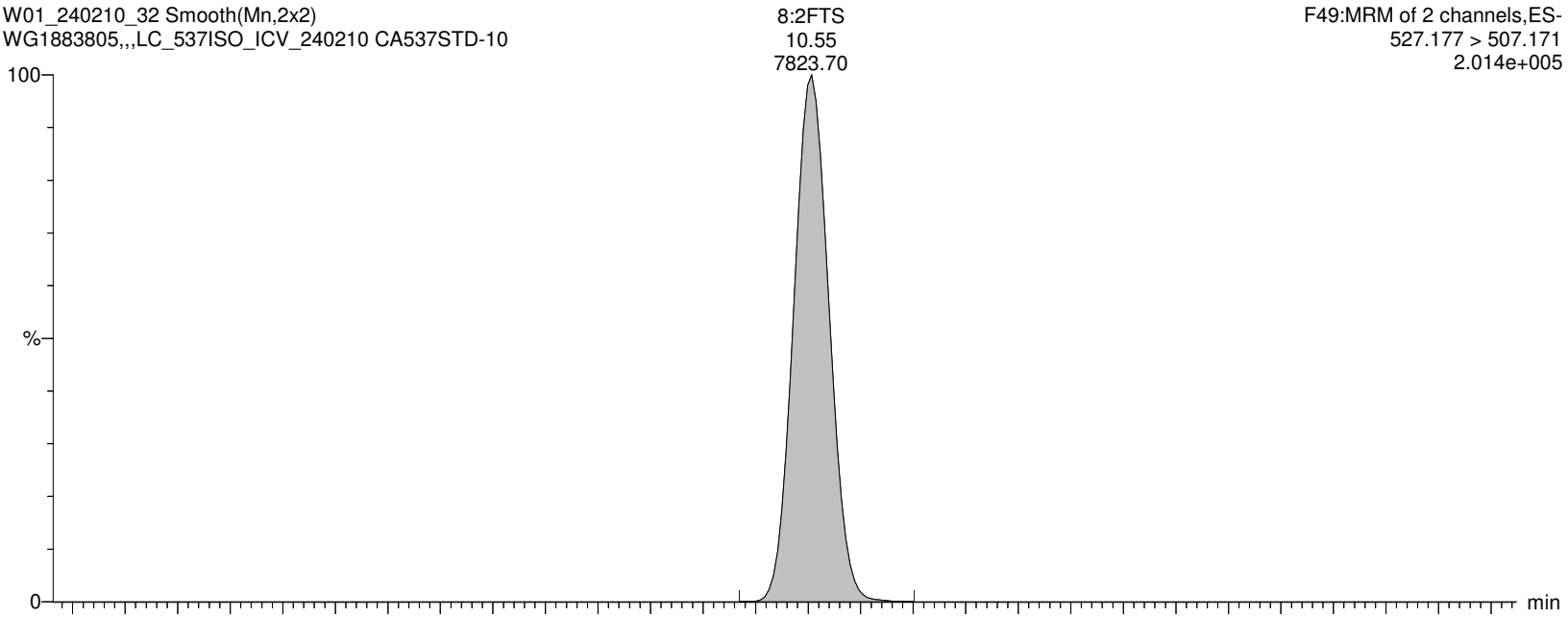

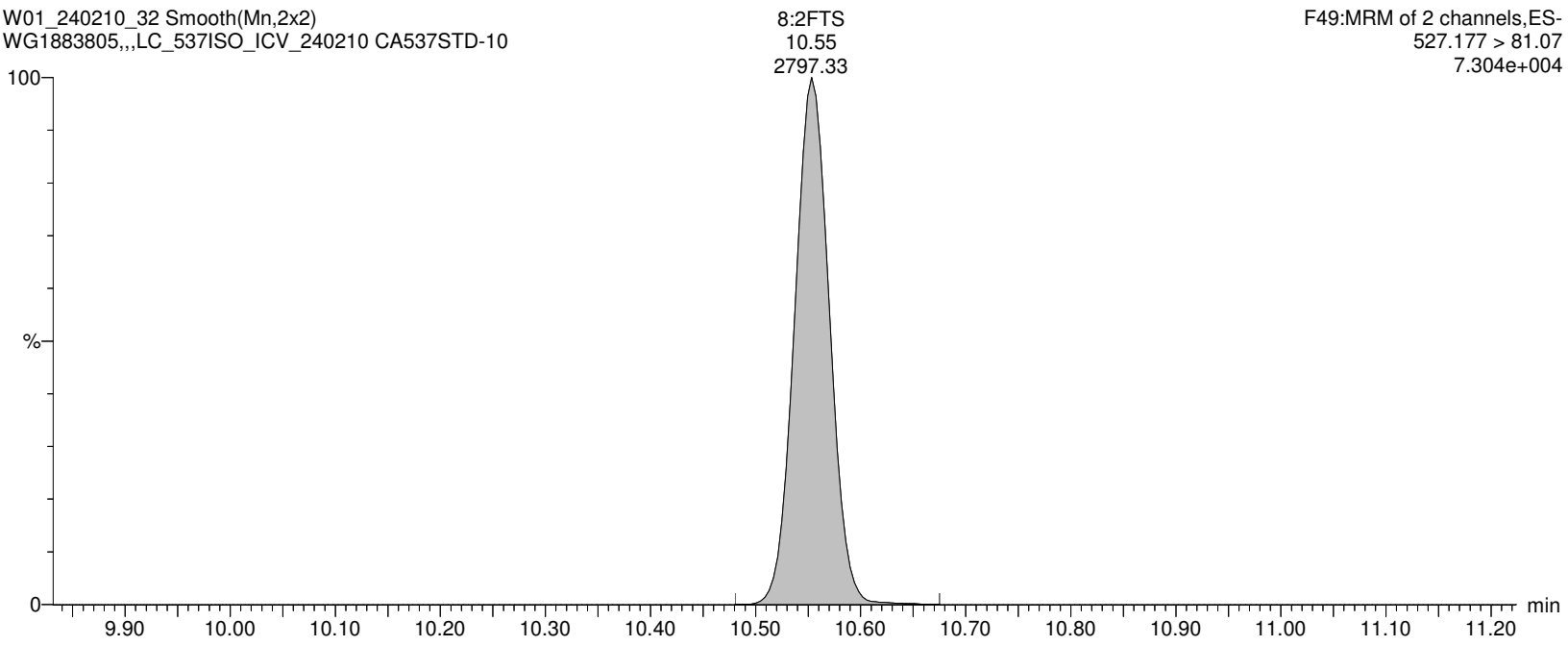

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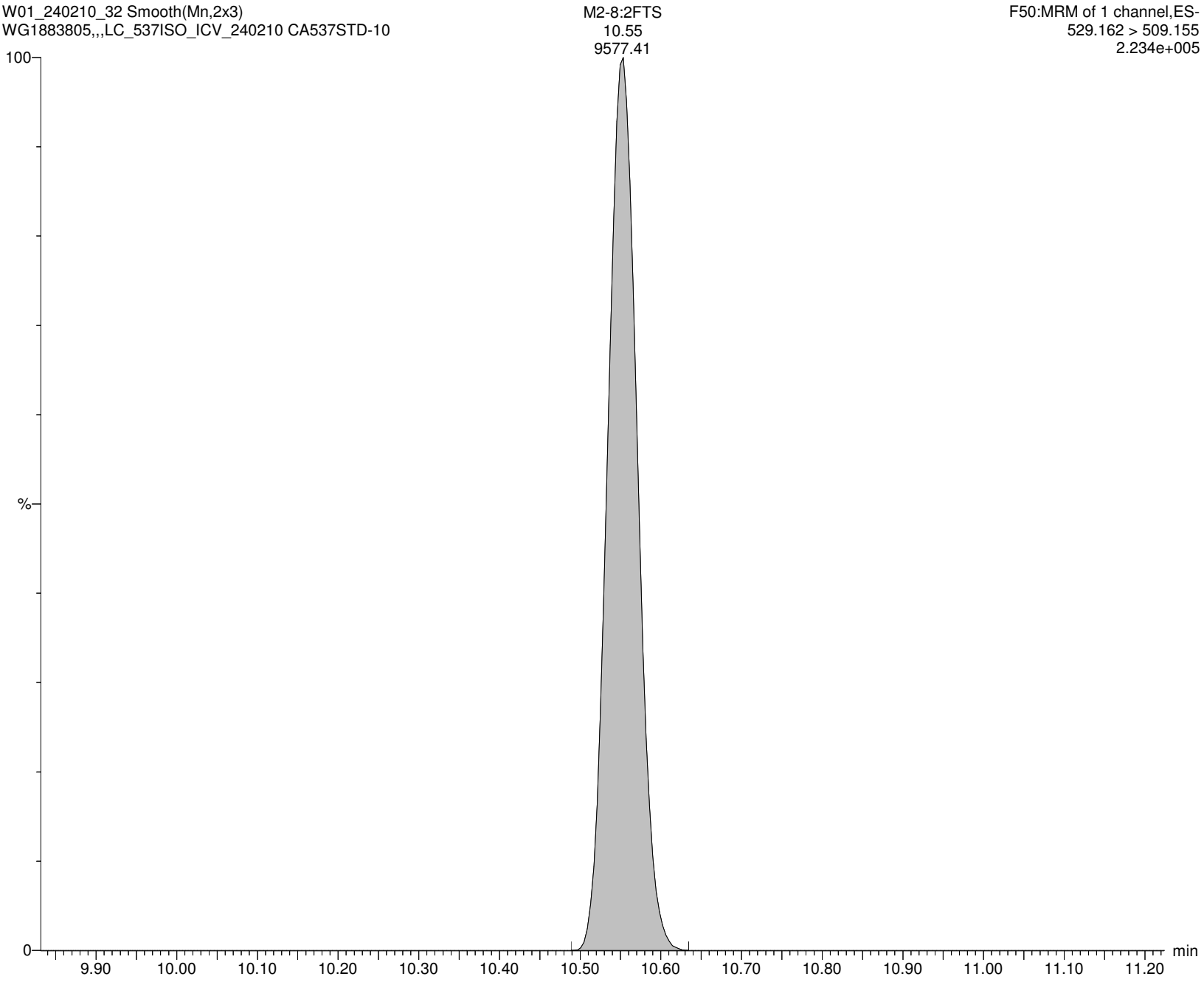

all concentration units in (ng/mL)

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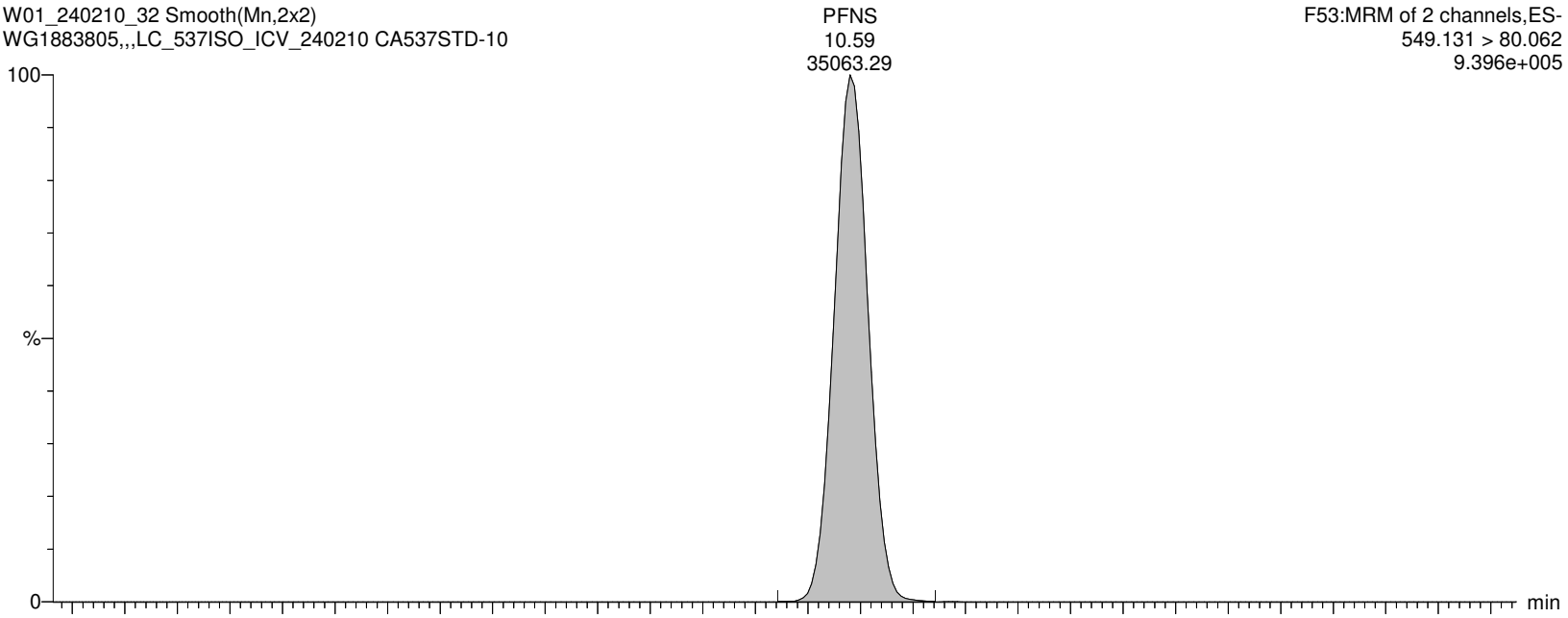

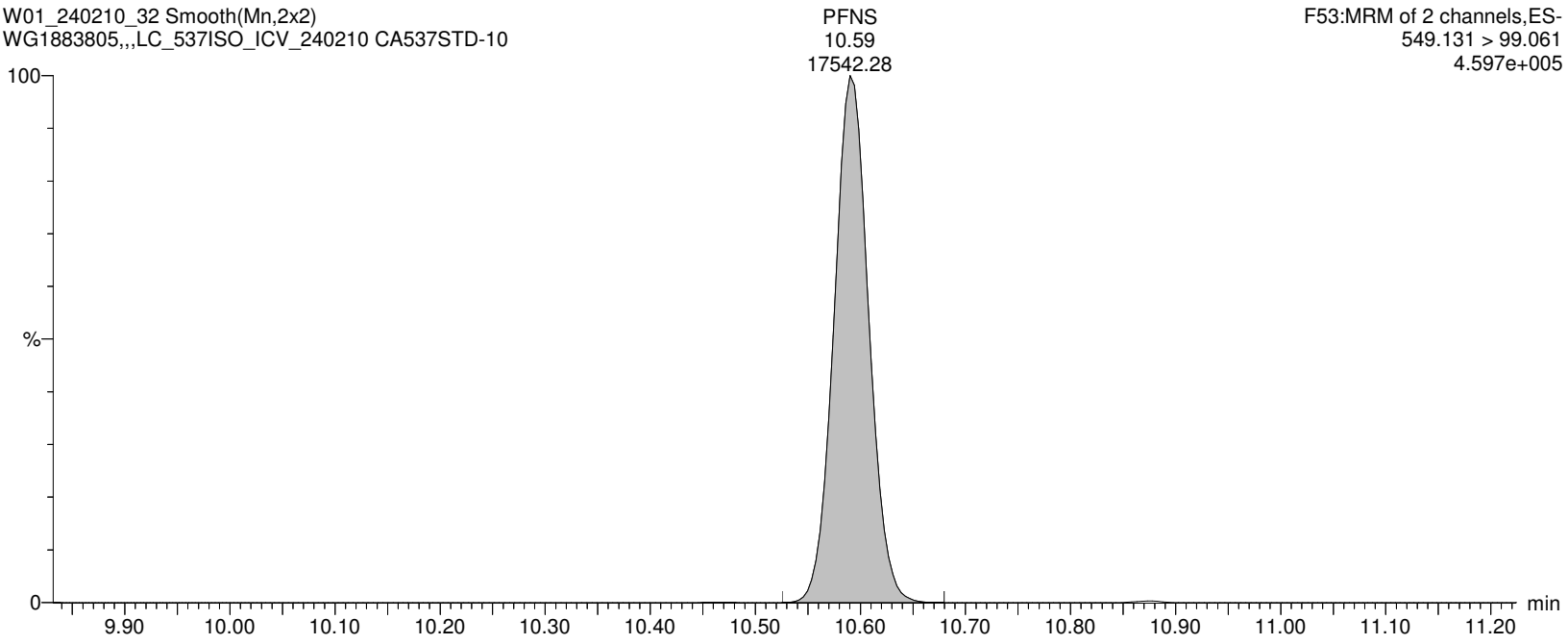

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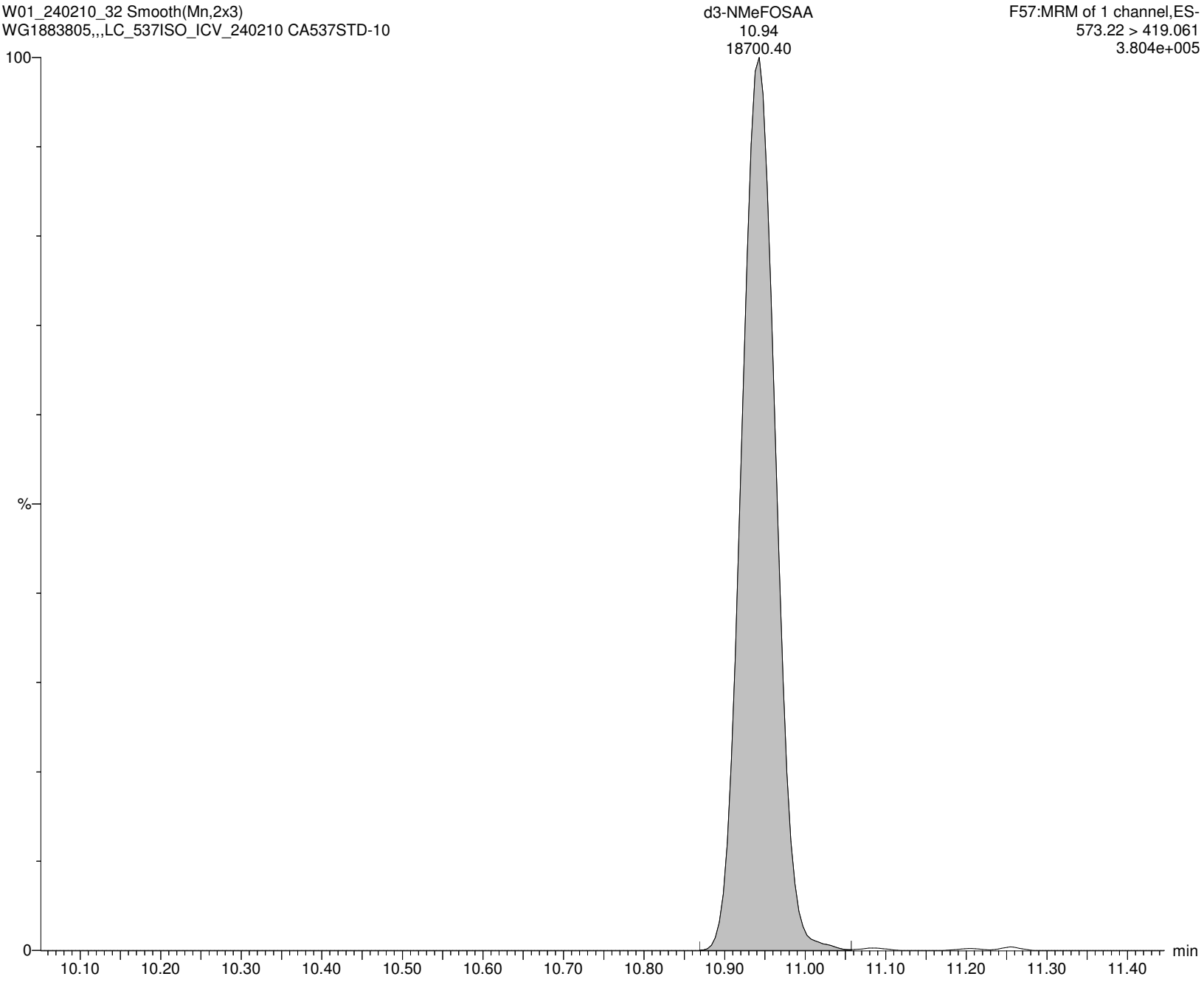
d3-NMeFOSAA



all concentration units in (ng/mL)

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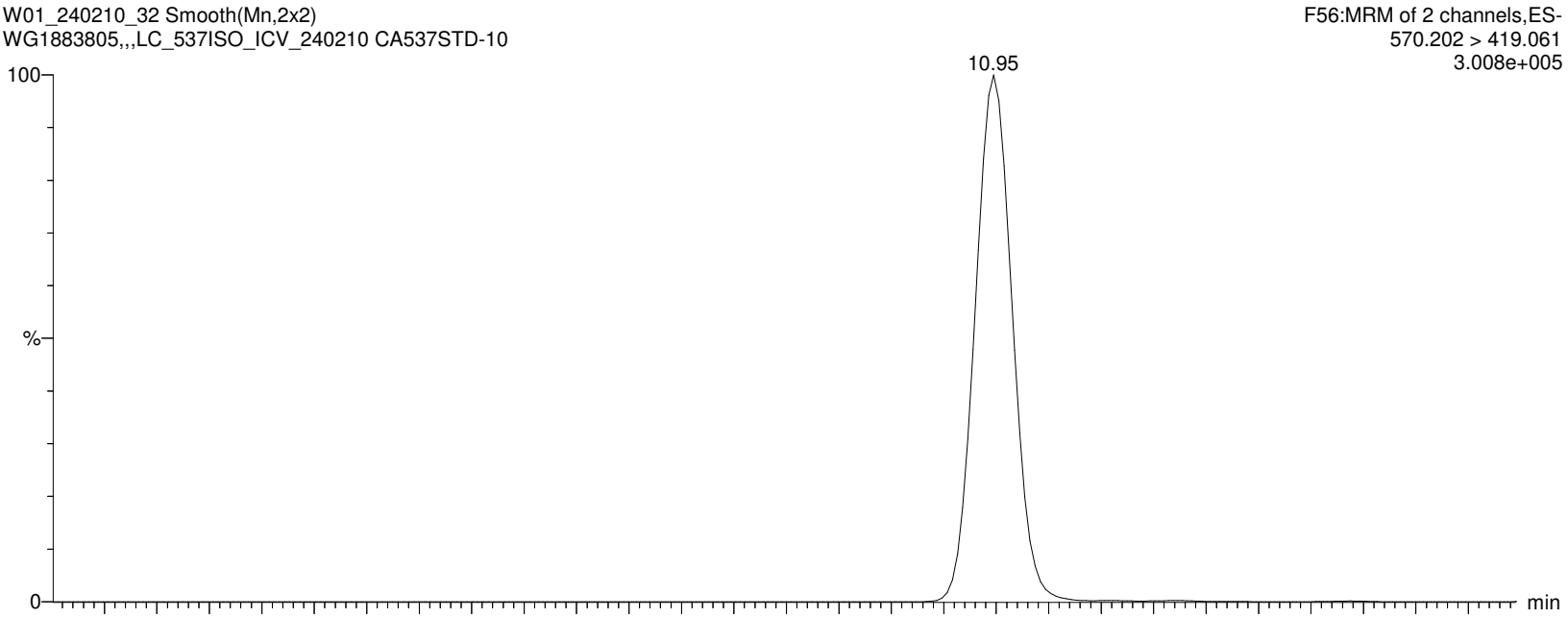

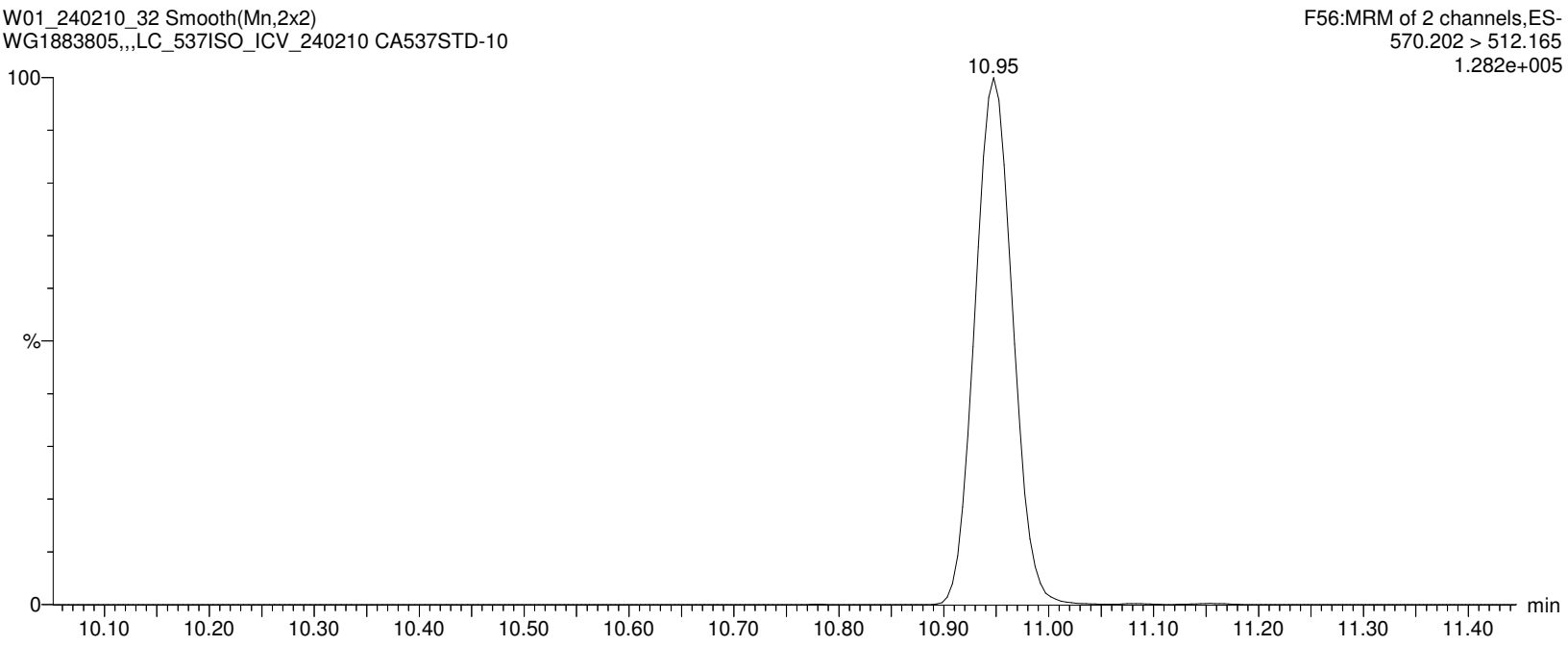

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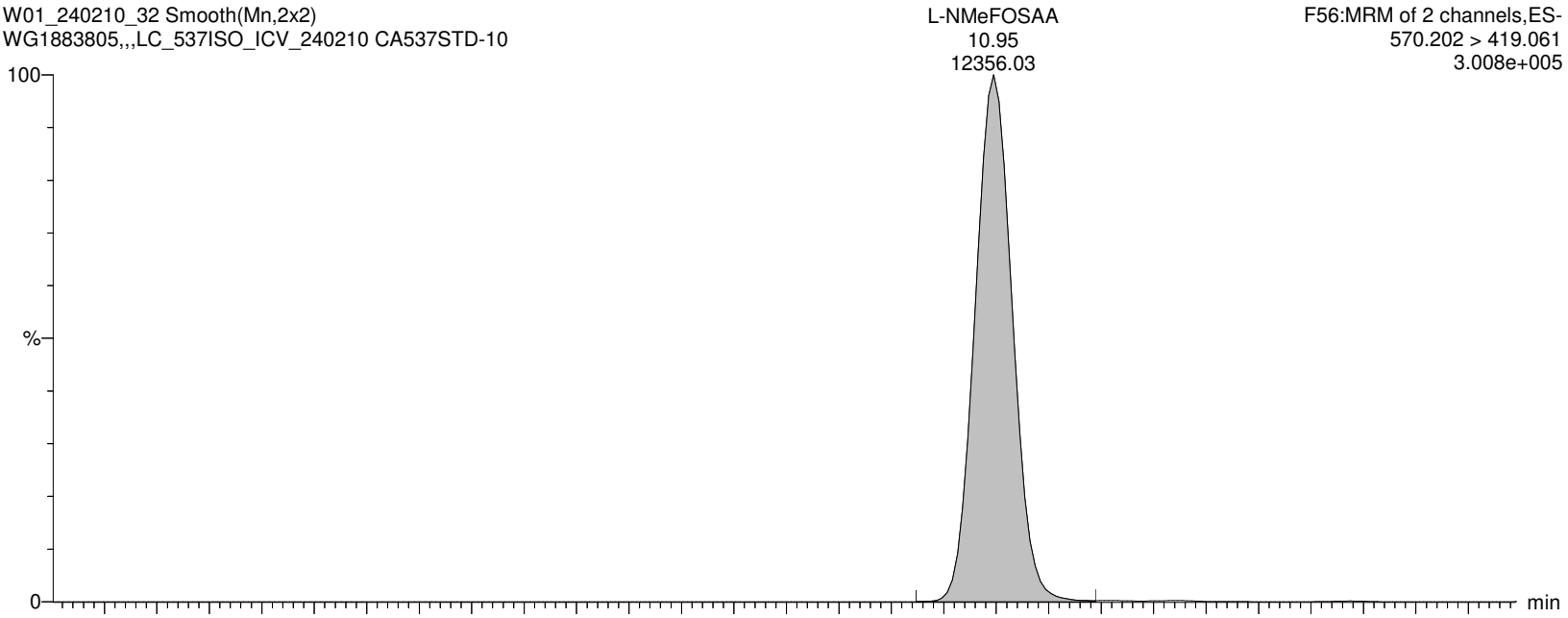

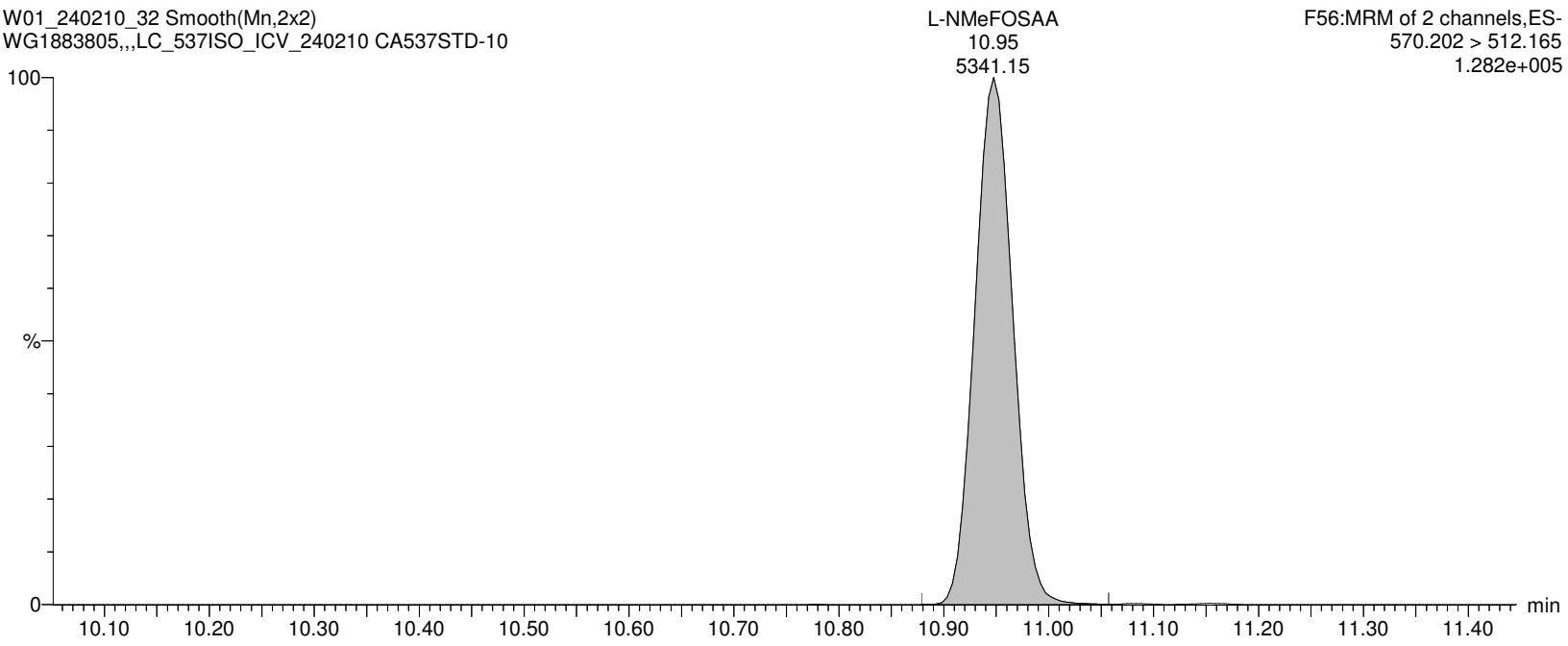

all concentration units in (ng/mL)

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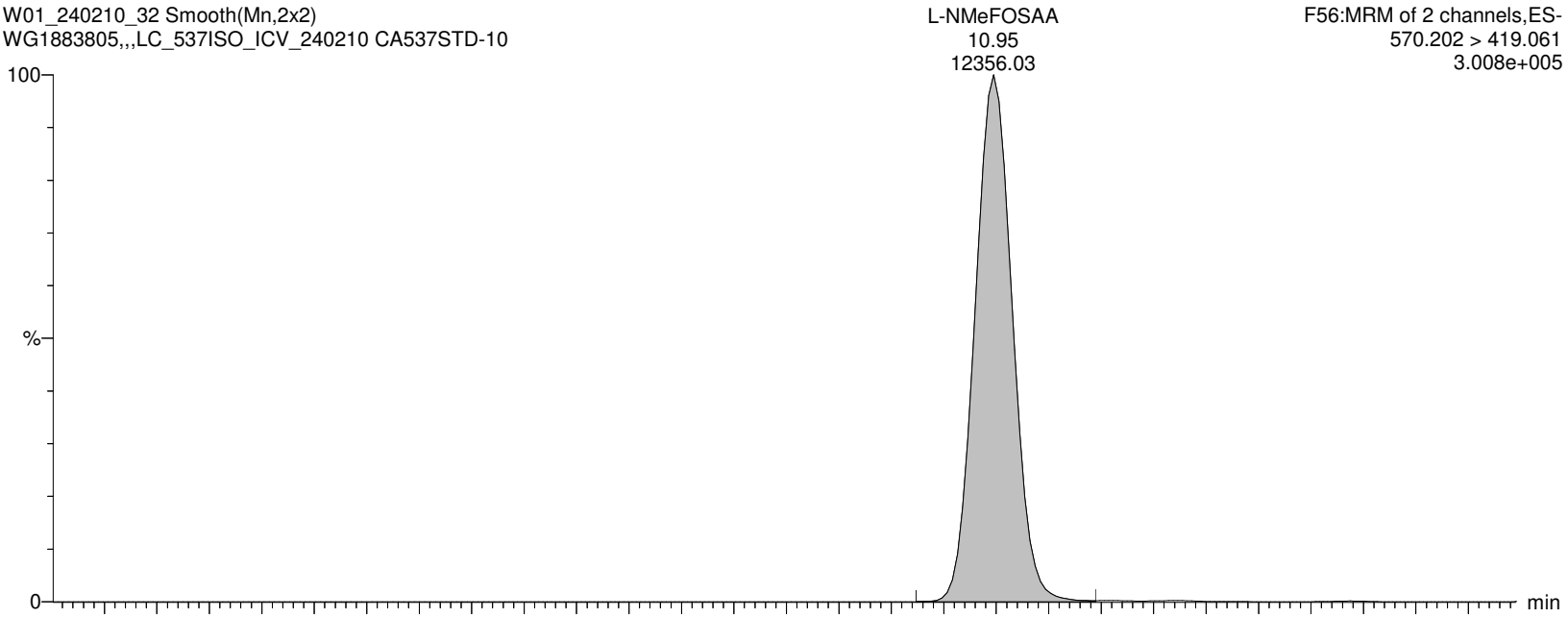

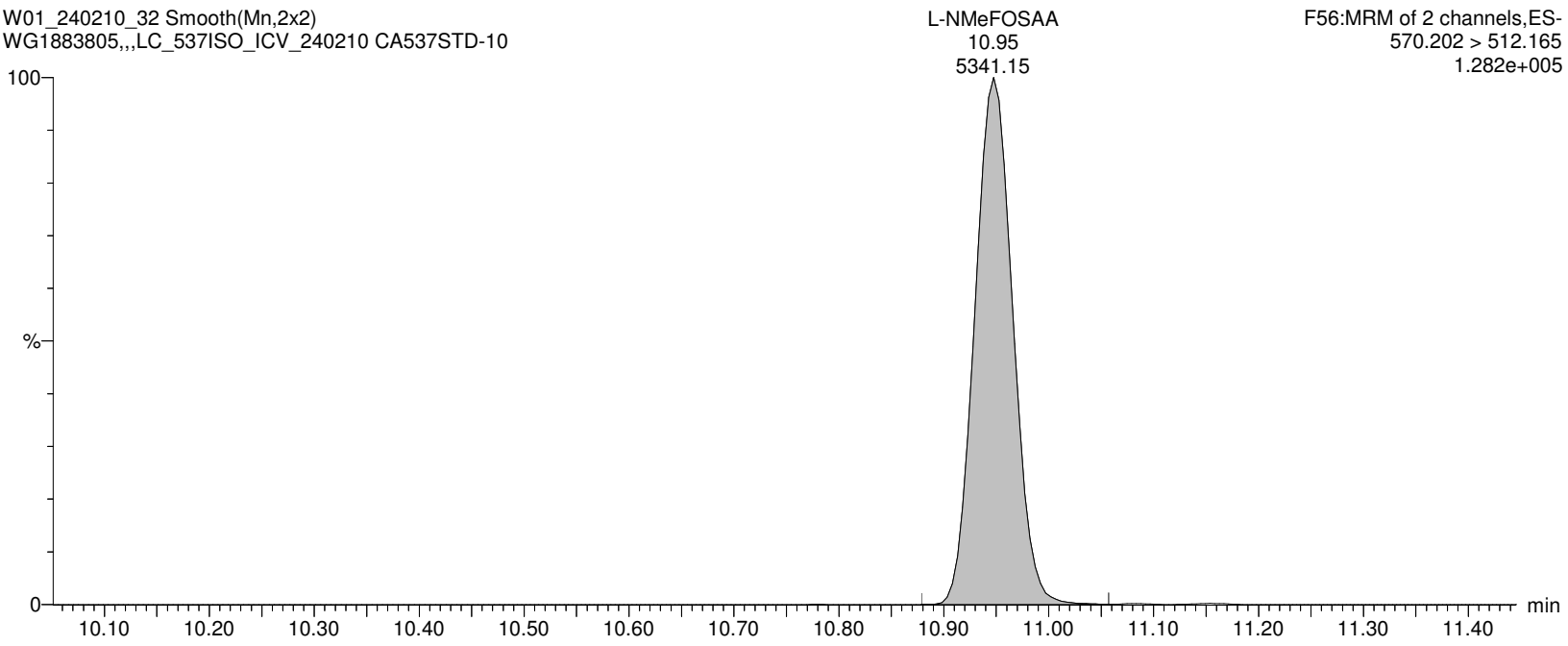

all concentration units in (ng/mL)

Alpha Analytical Inc.
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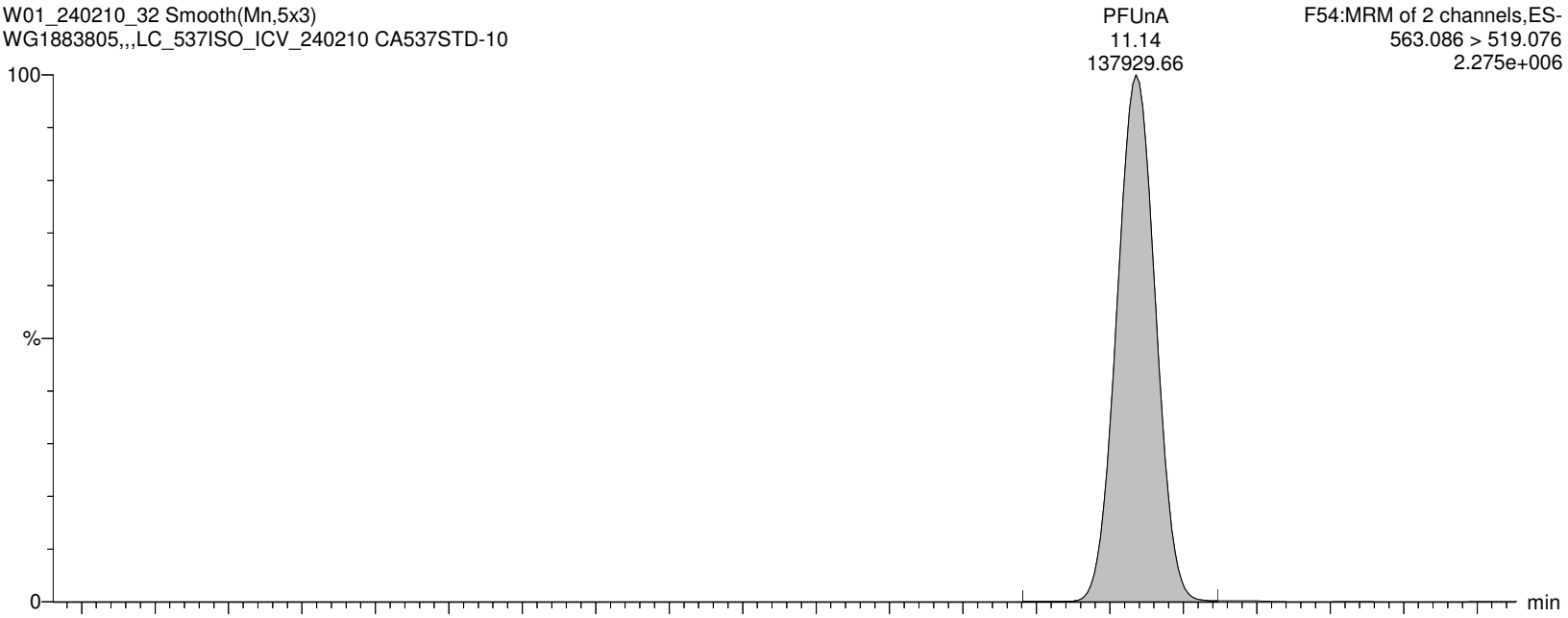

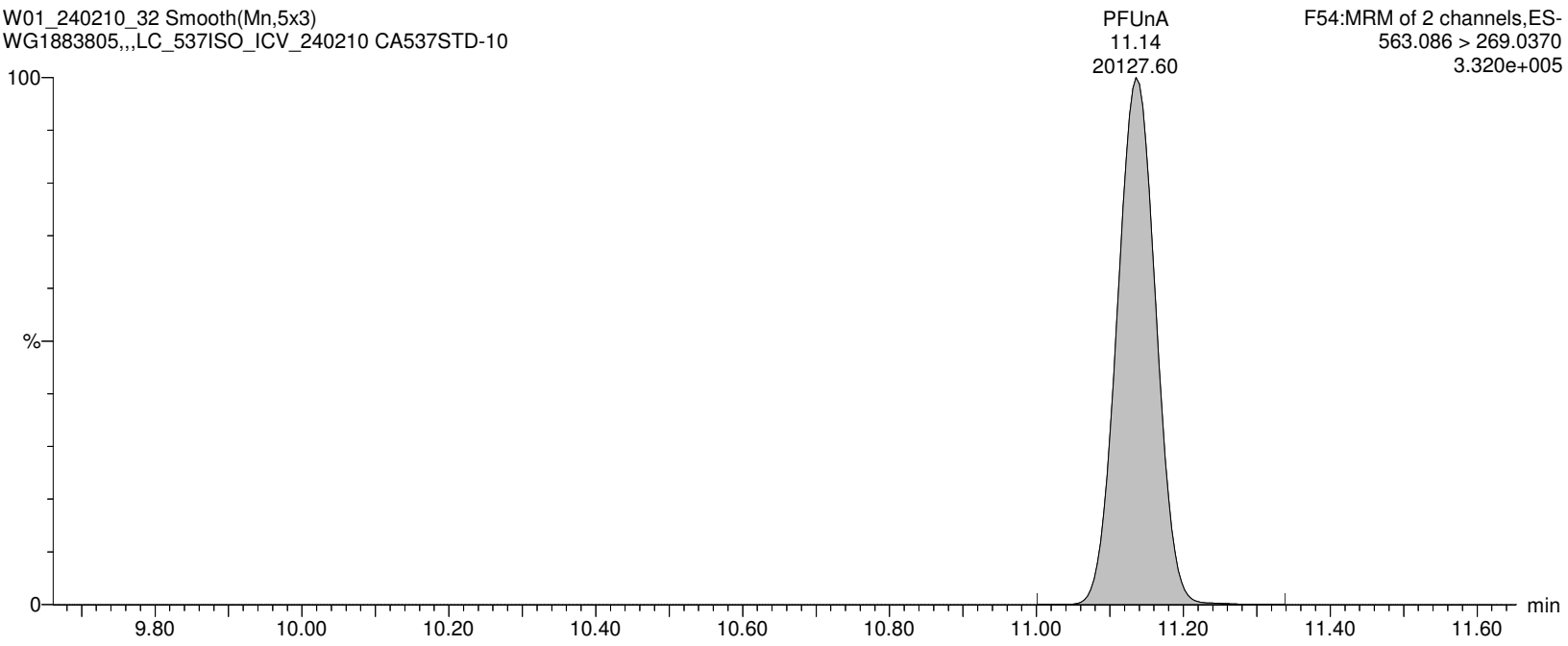

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
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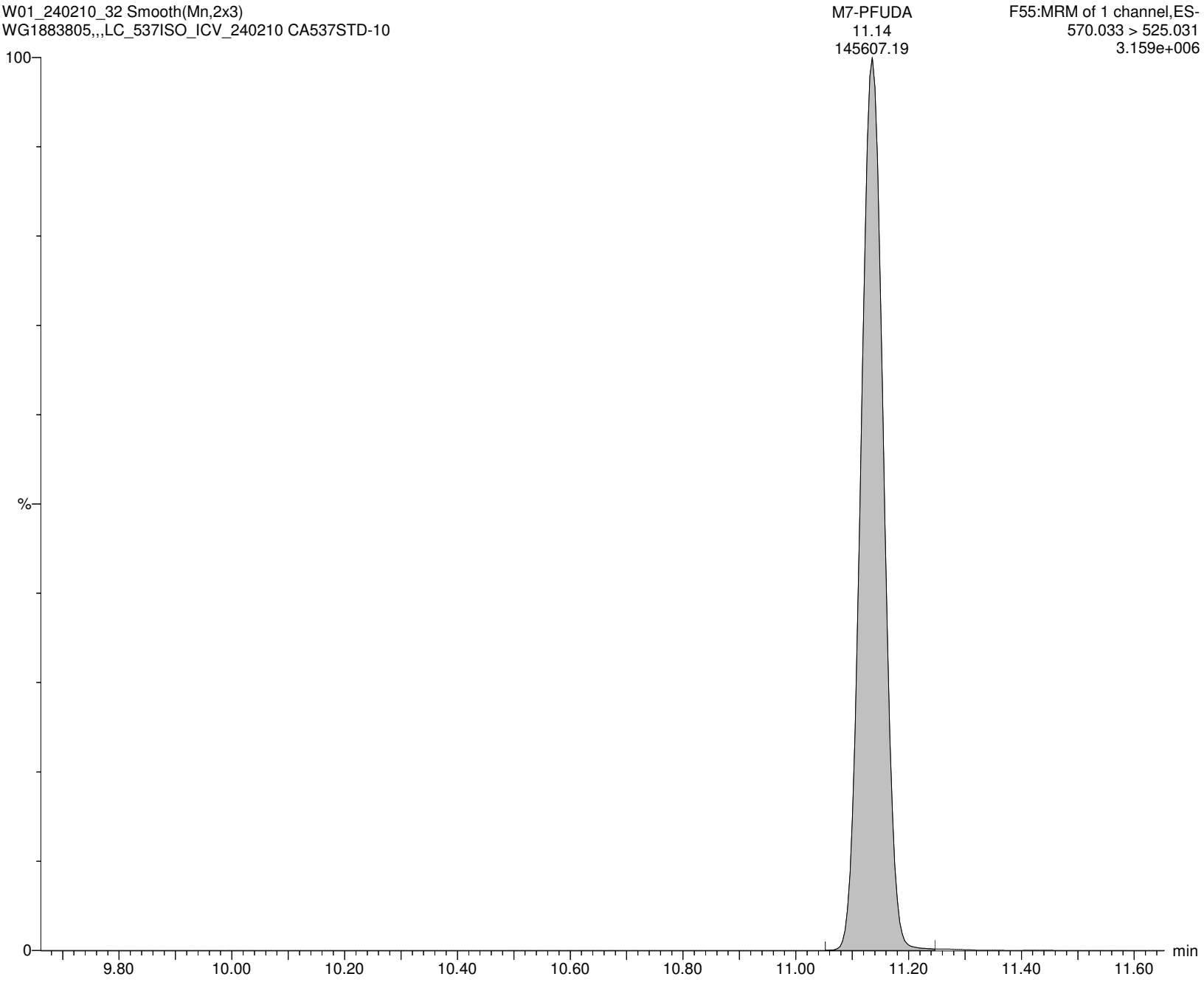

all concentration units in (ng/mL)

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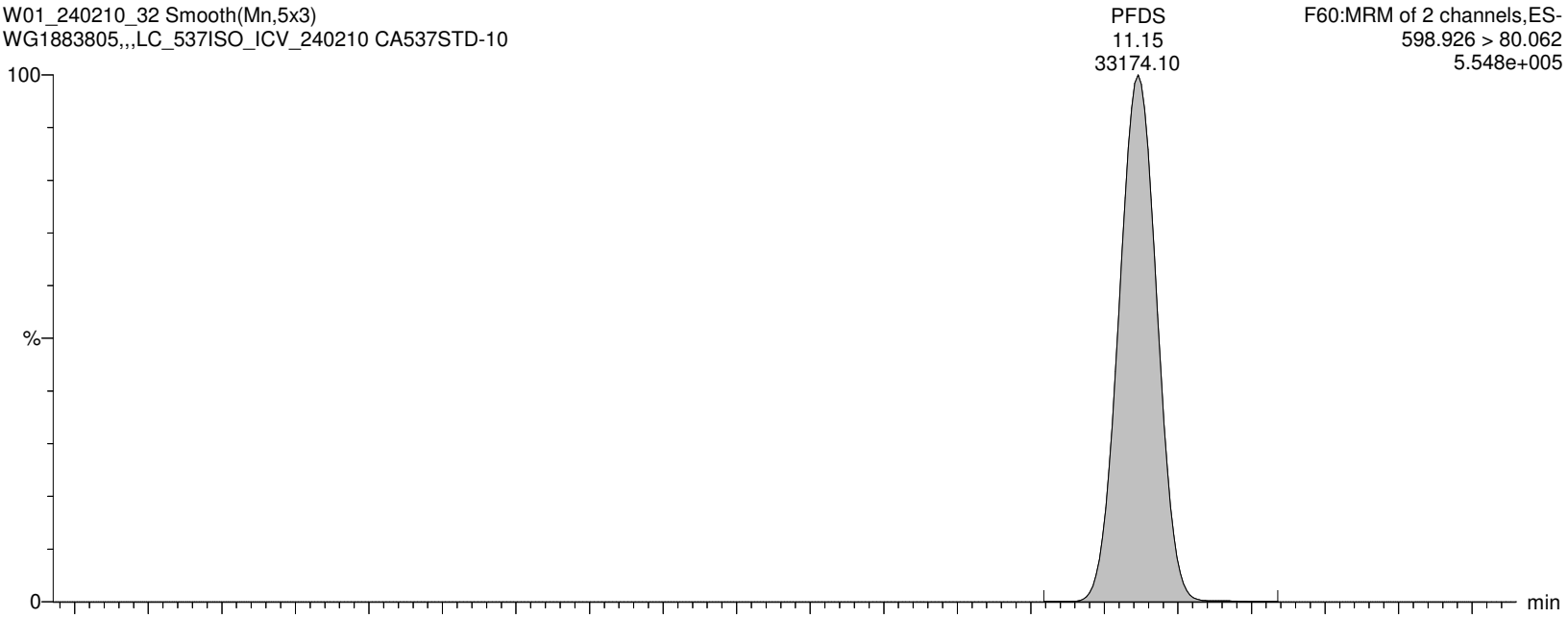

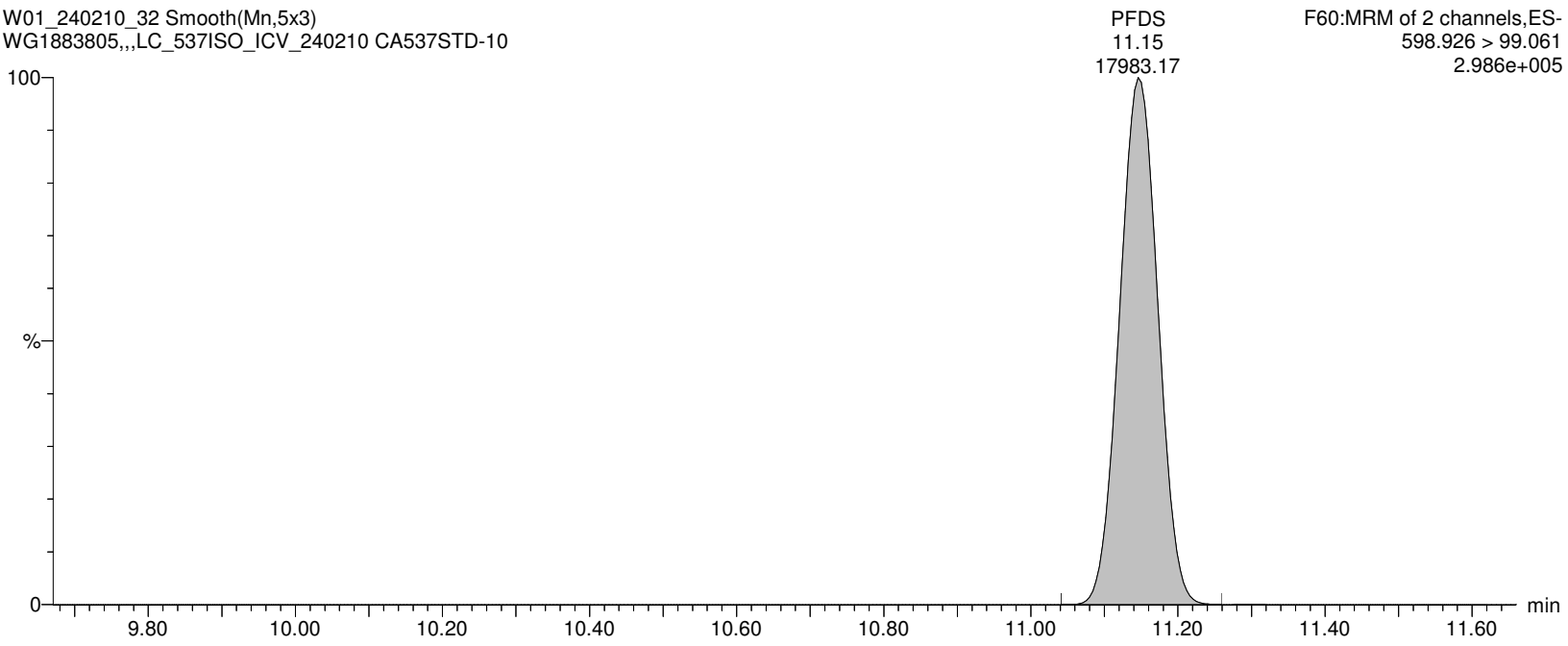

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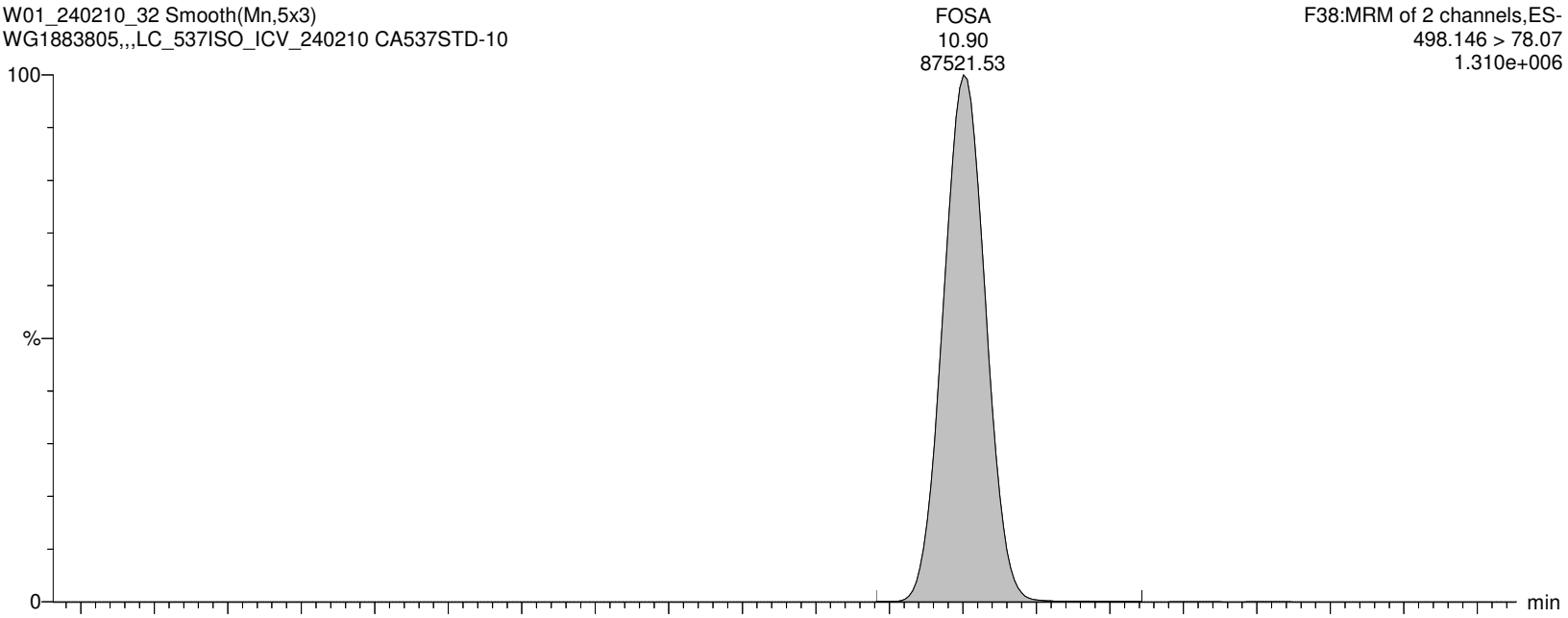

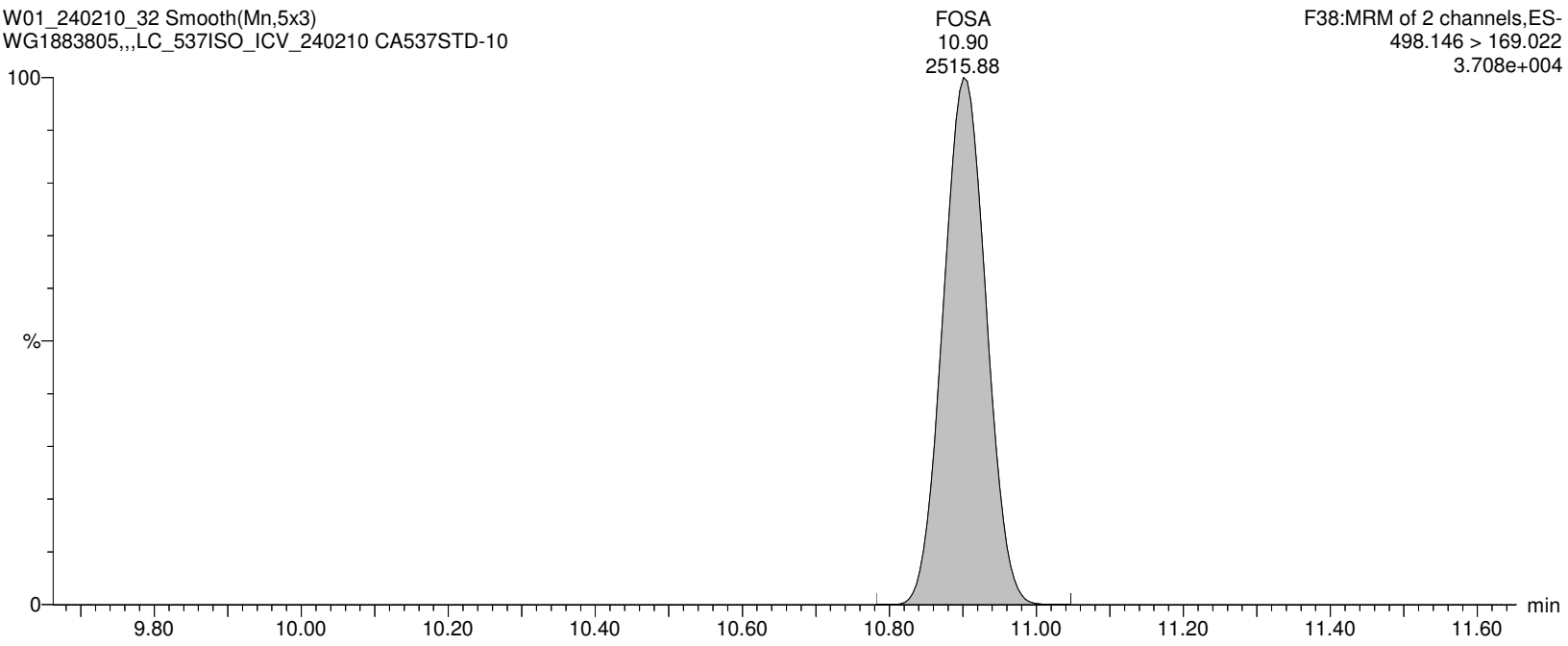

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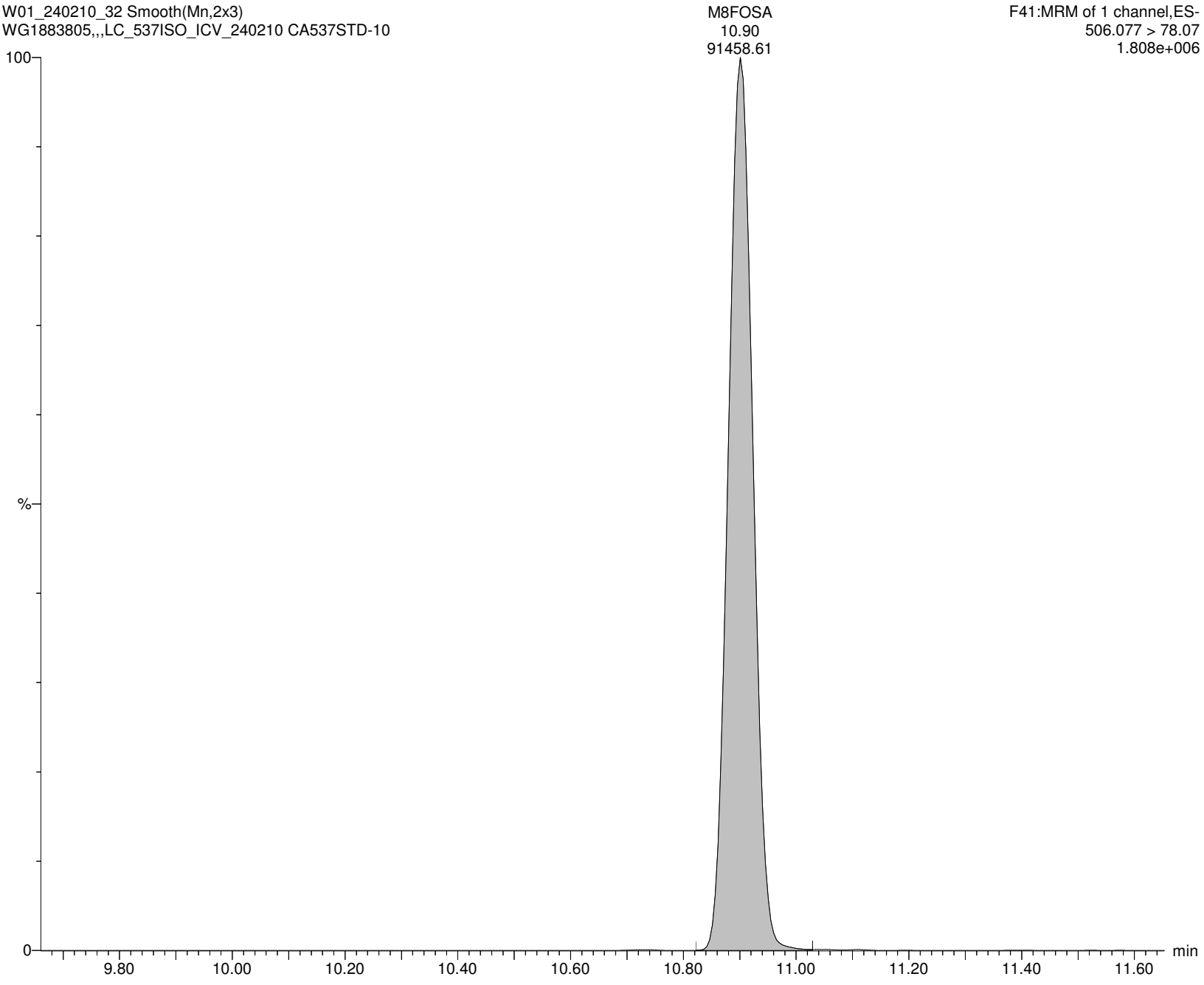

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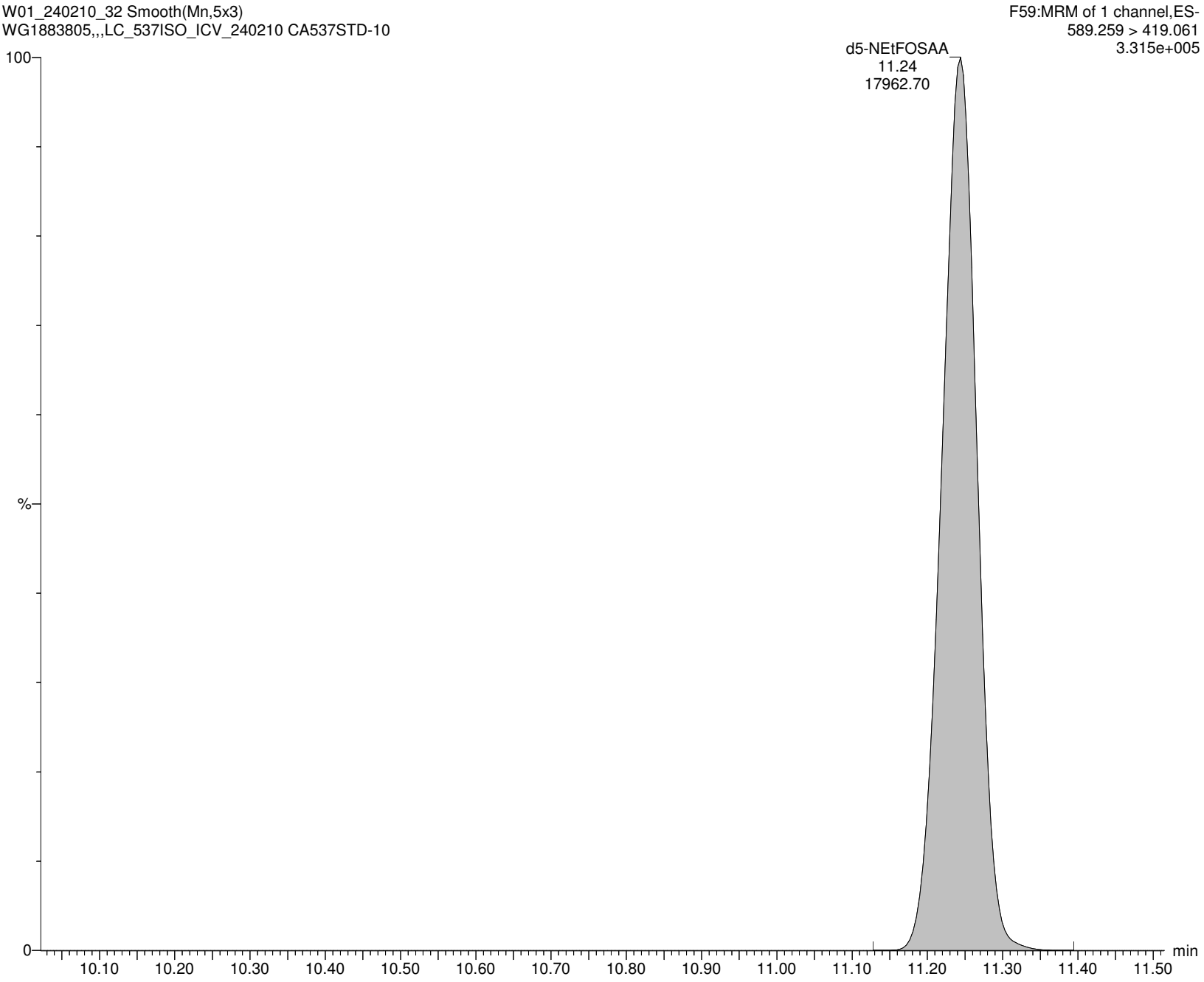

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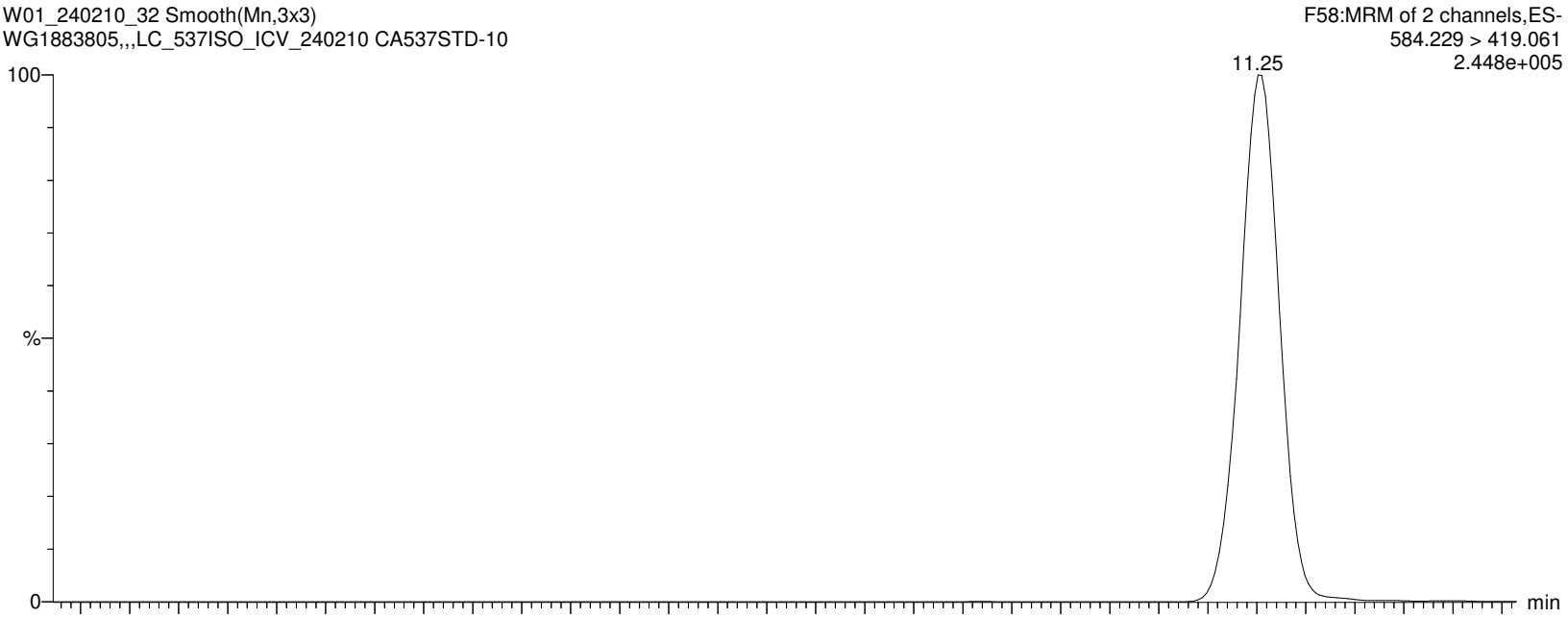

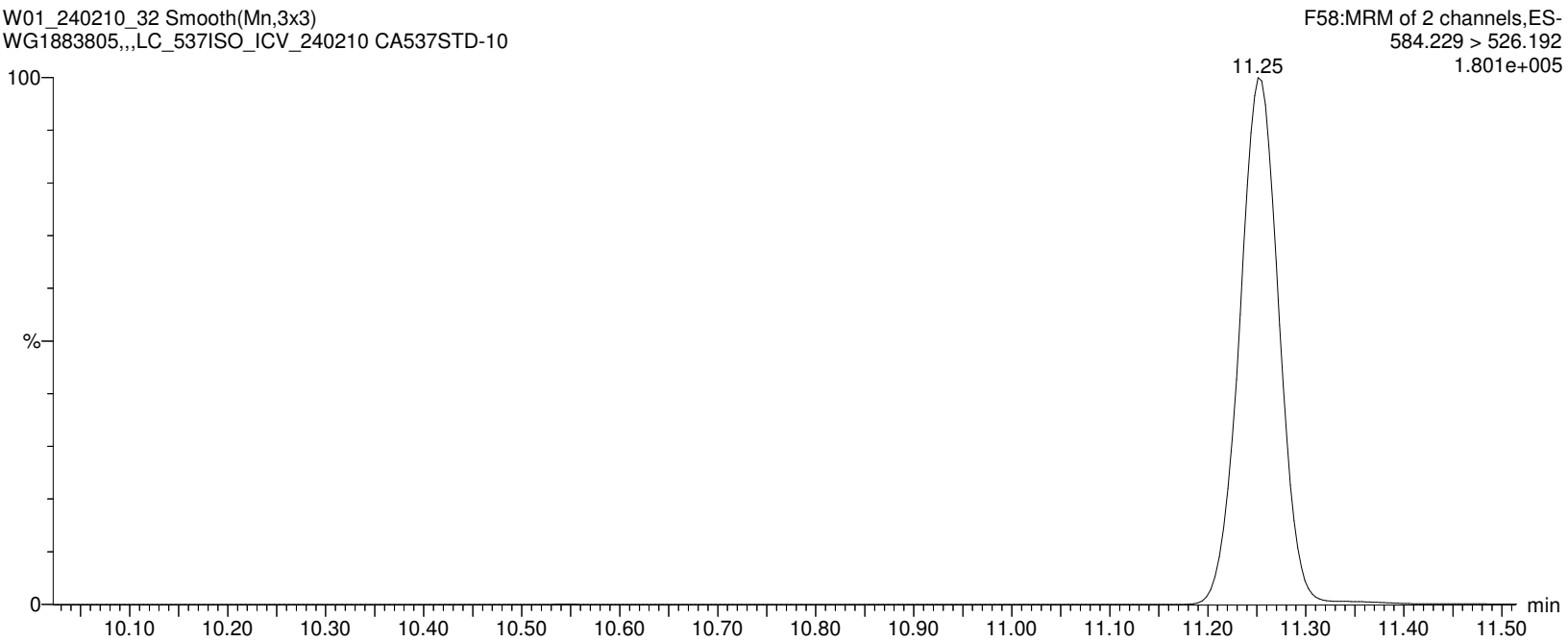

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

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Date: 11-Feb-2024
Time: 10:57:05
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User: LCMS01:SG
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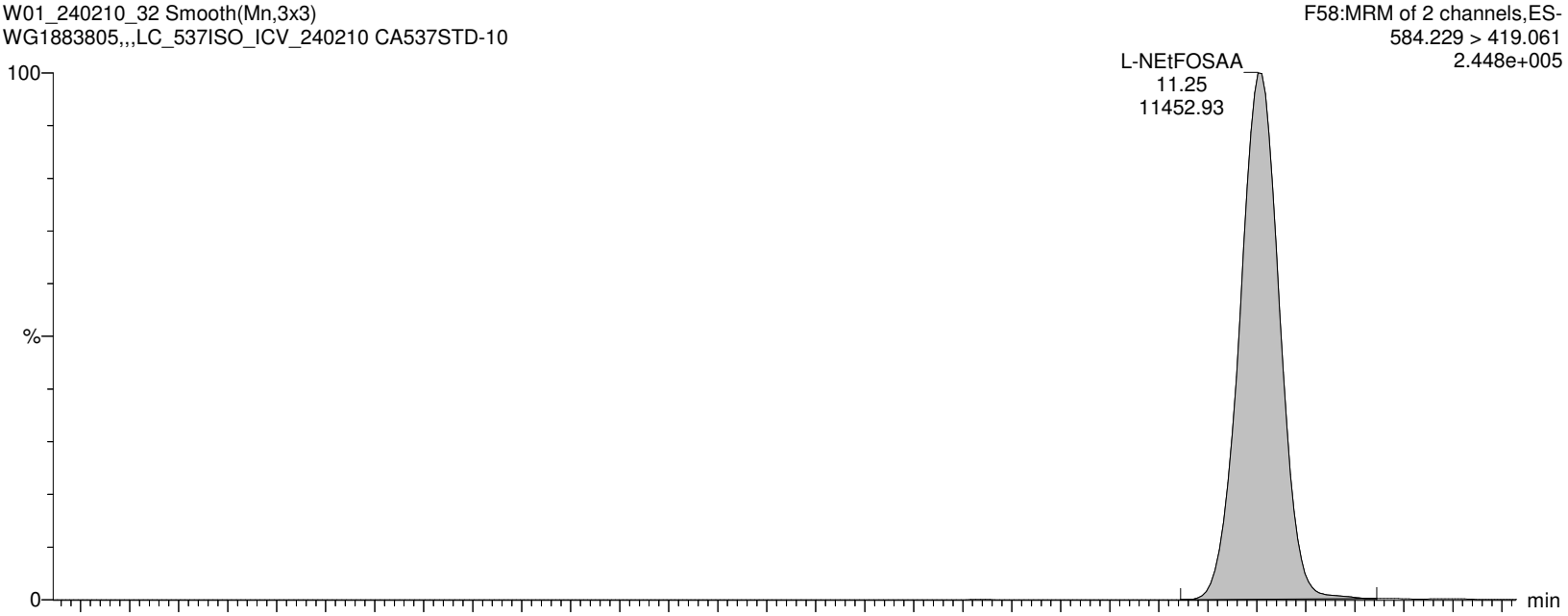

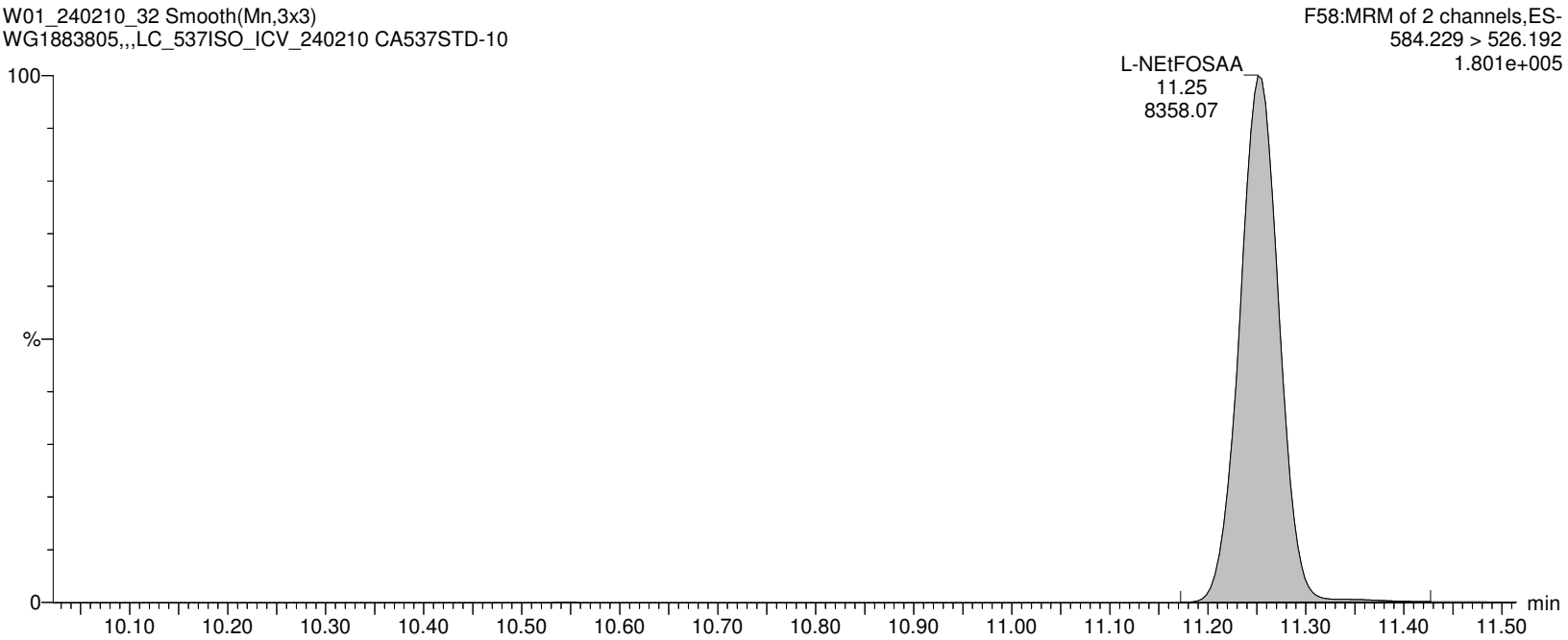

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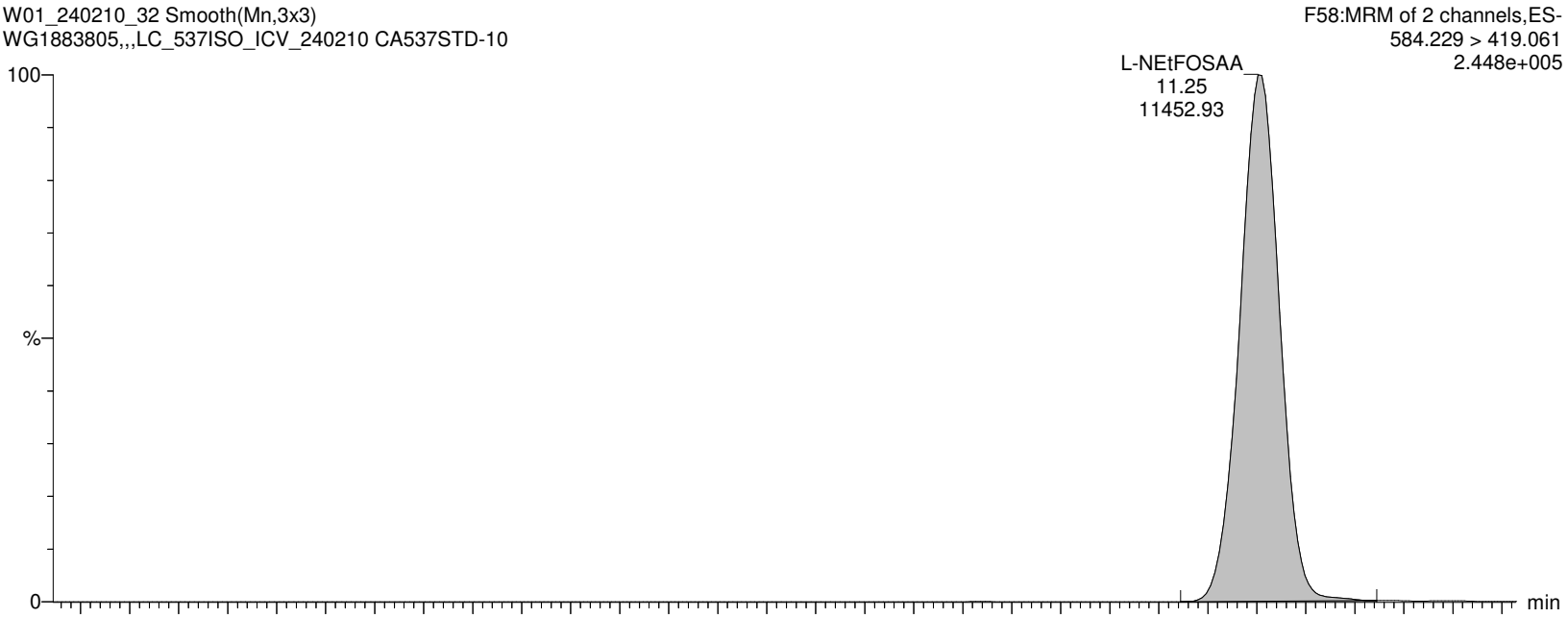

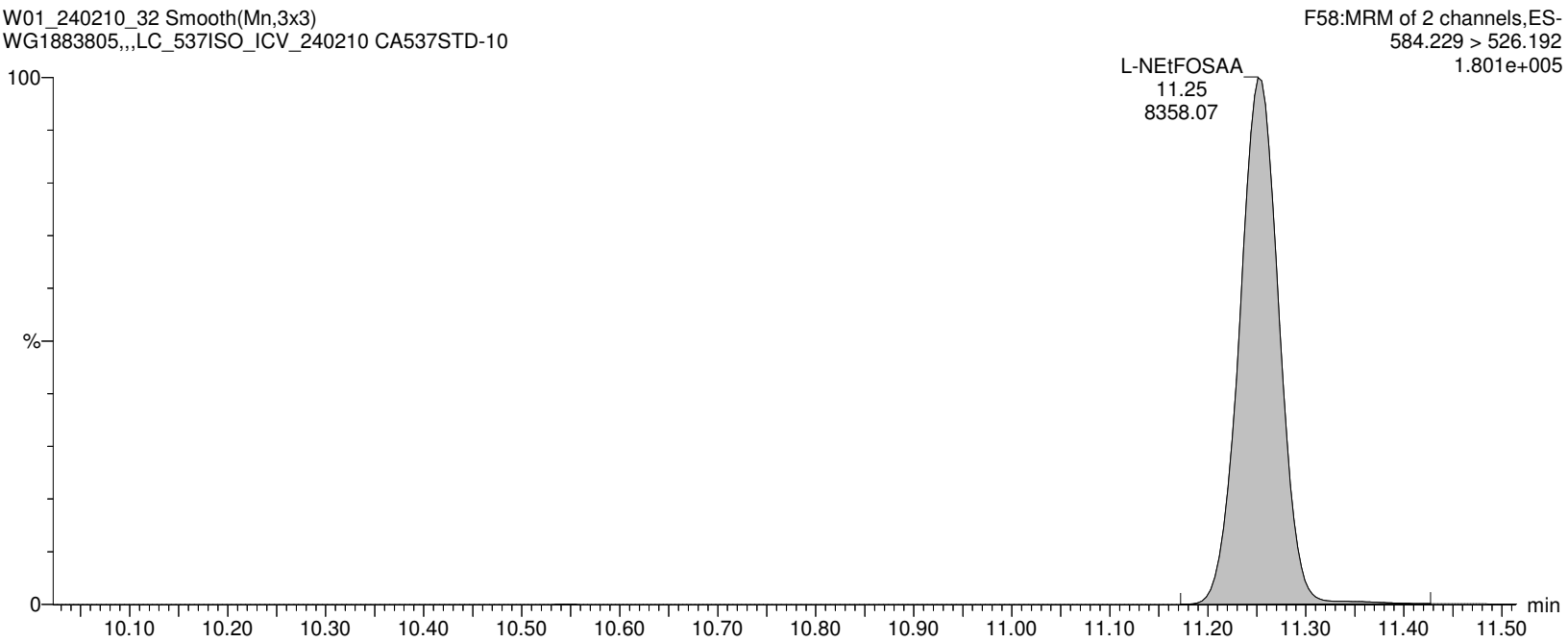

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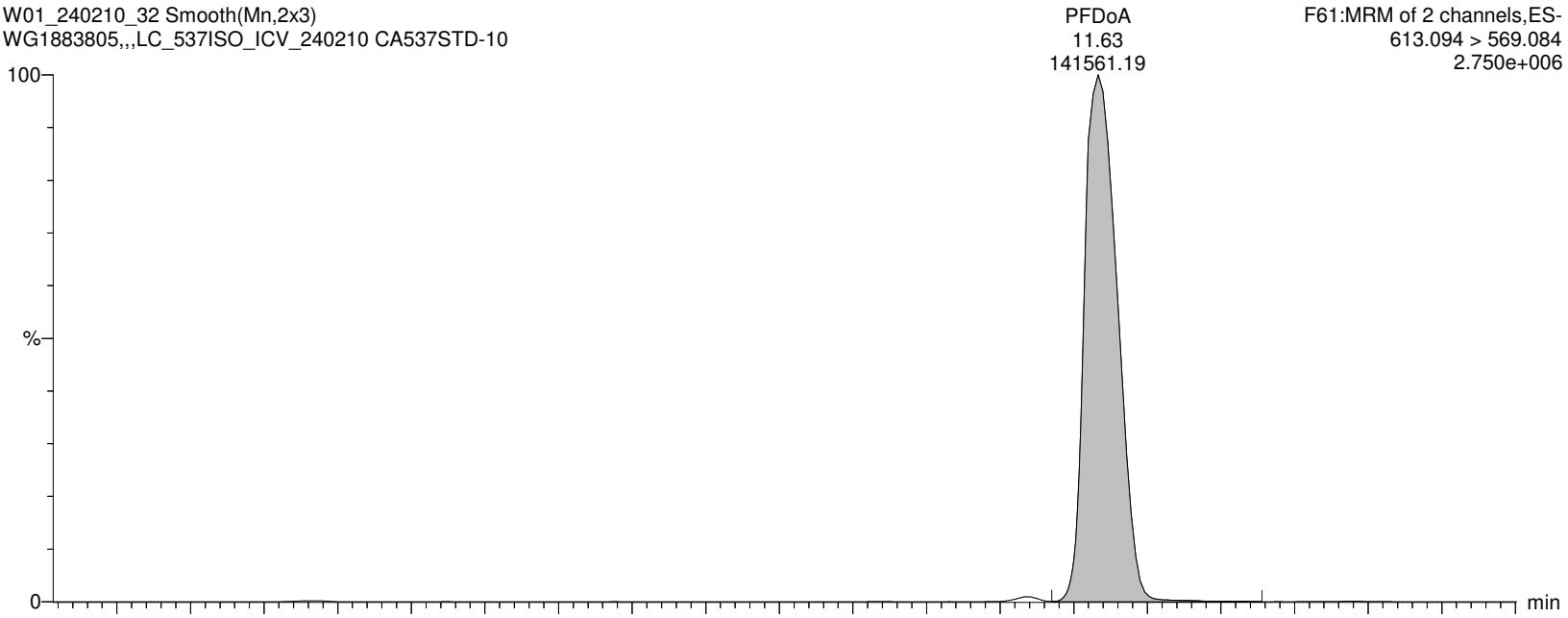

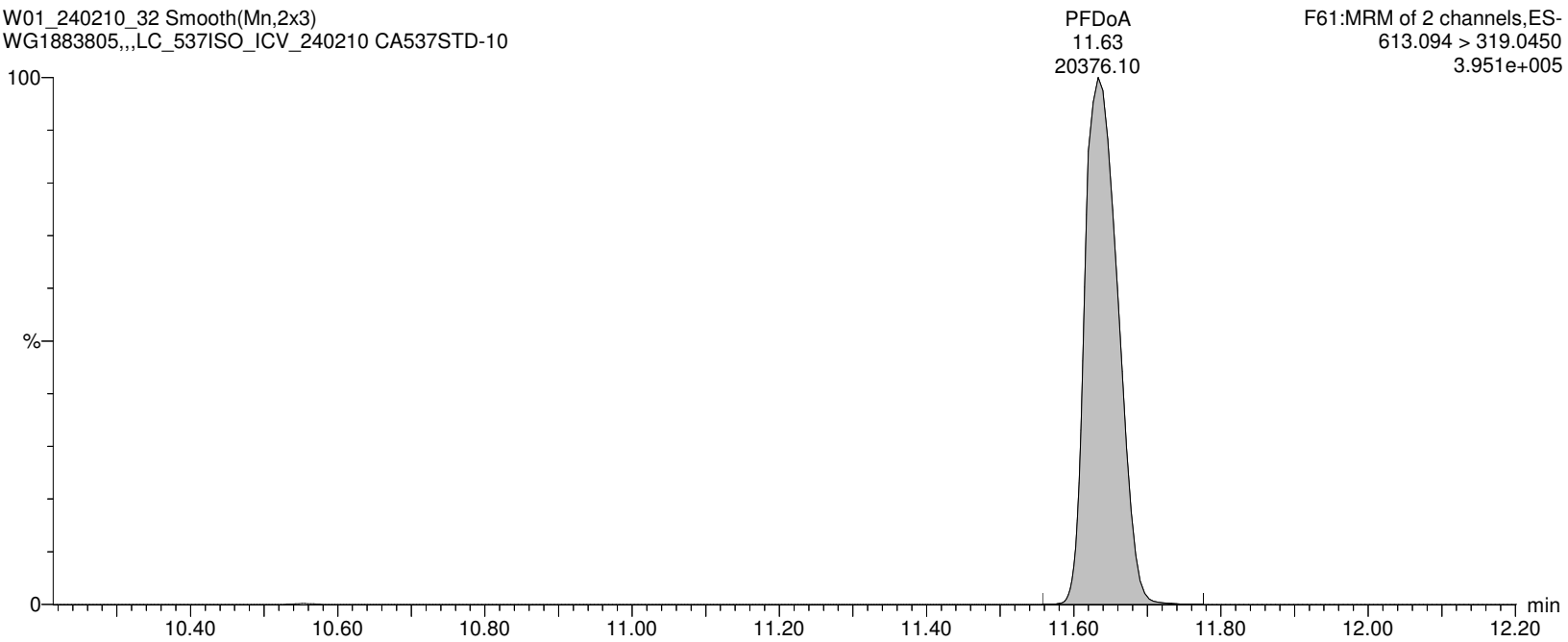

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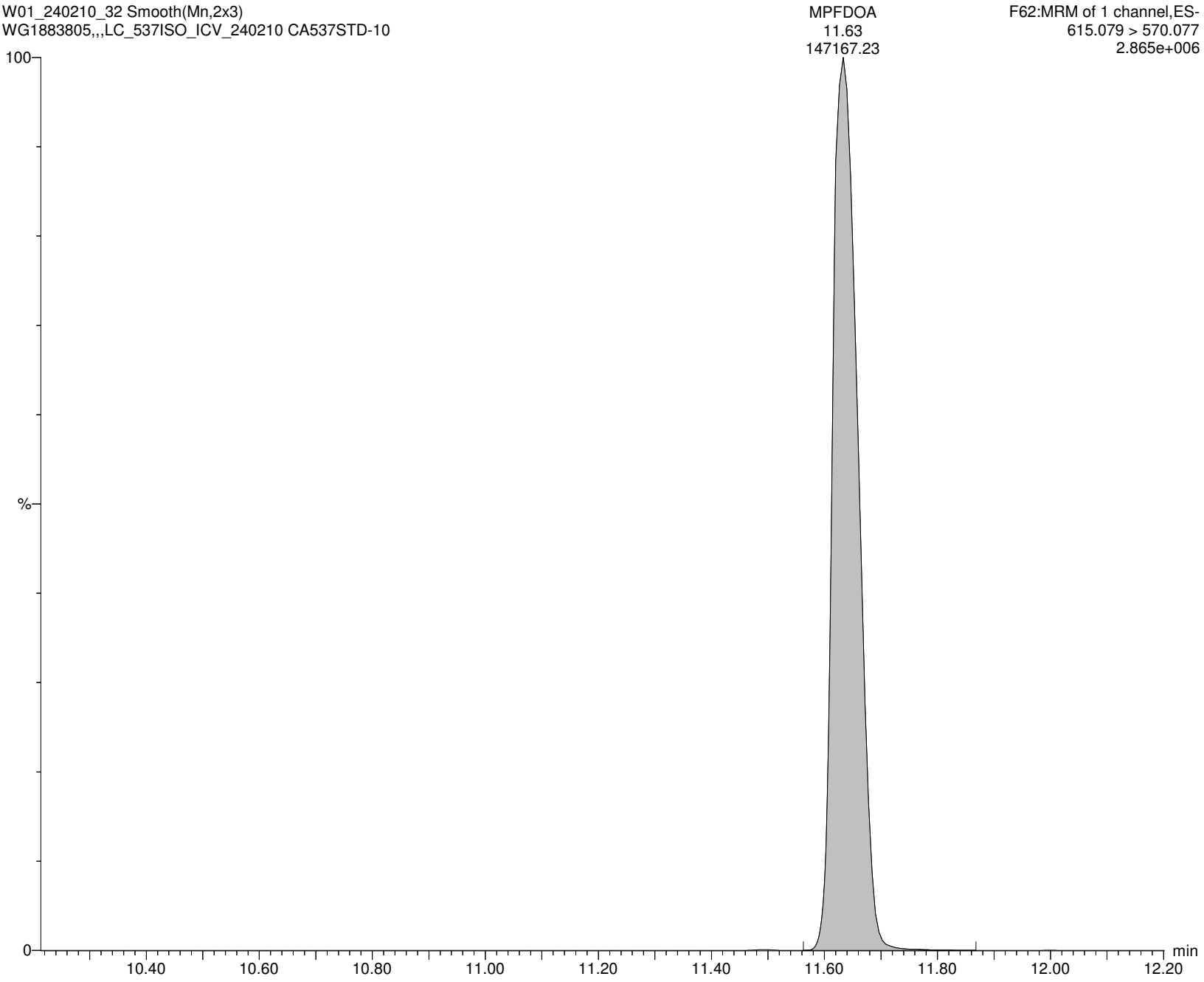

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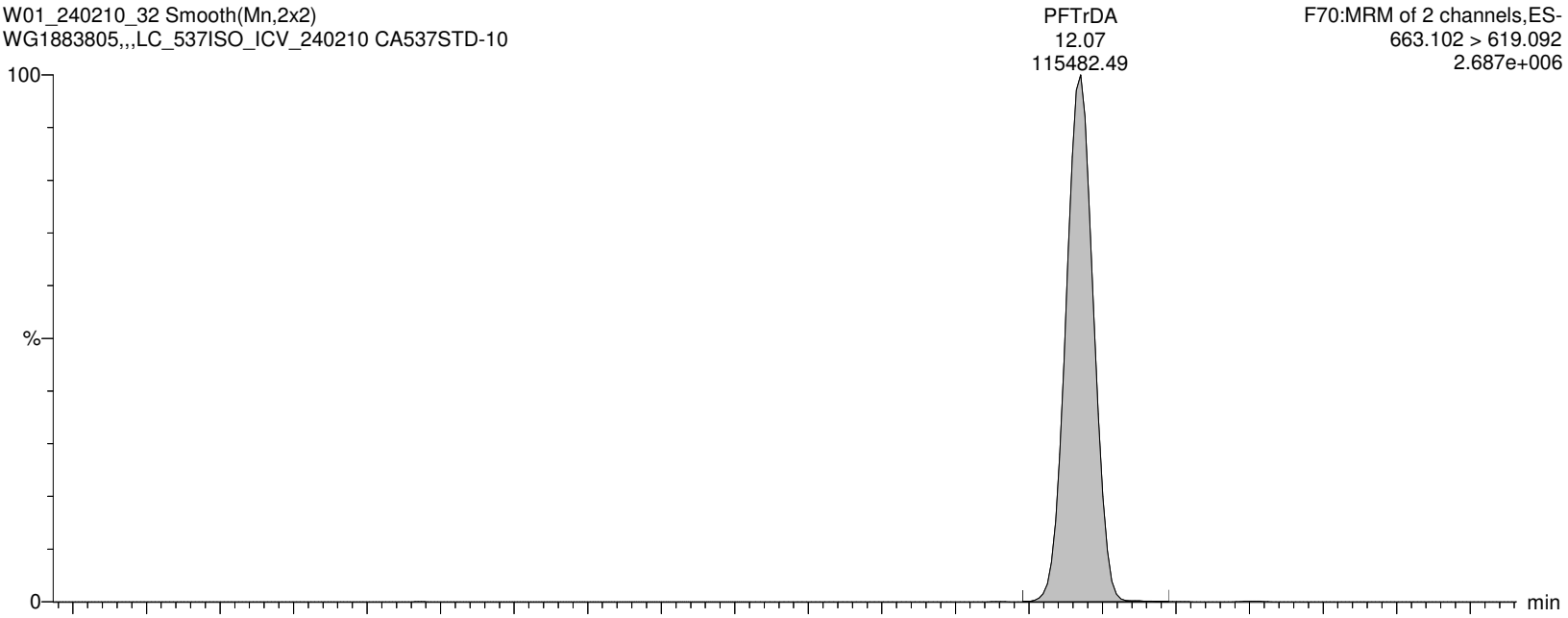

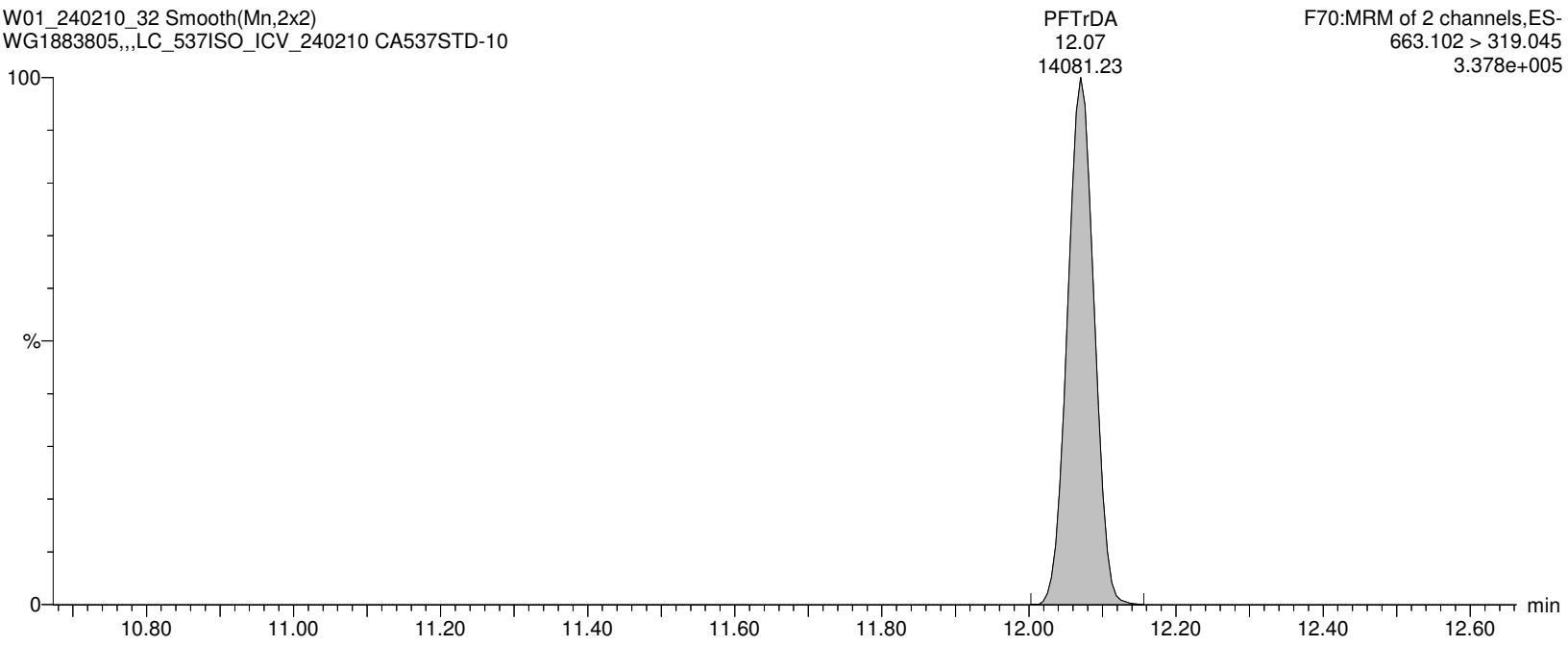

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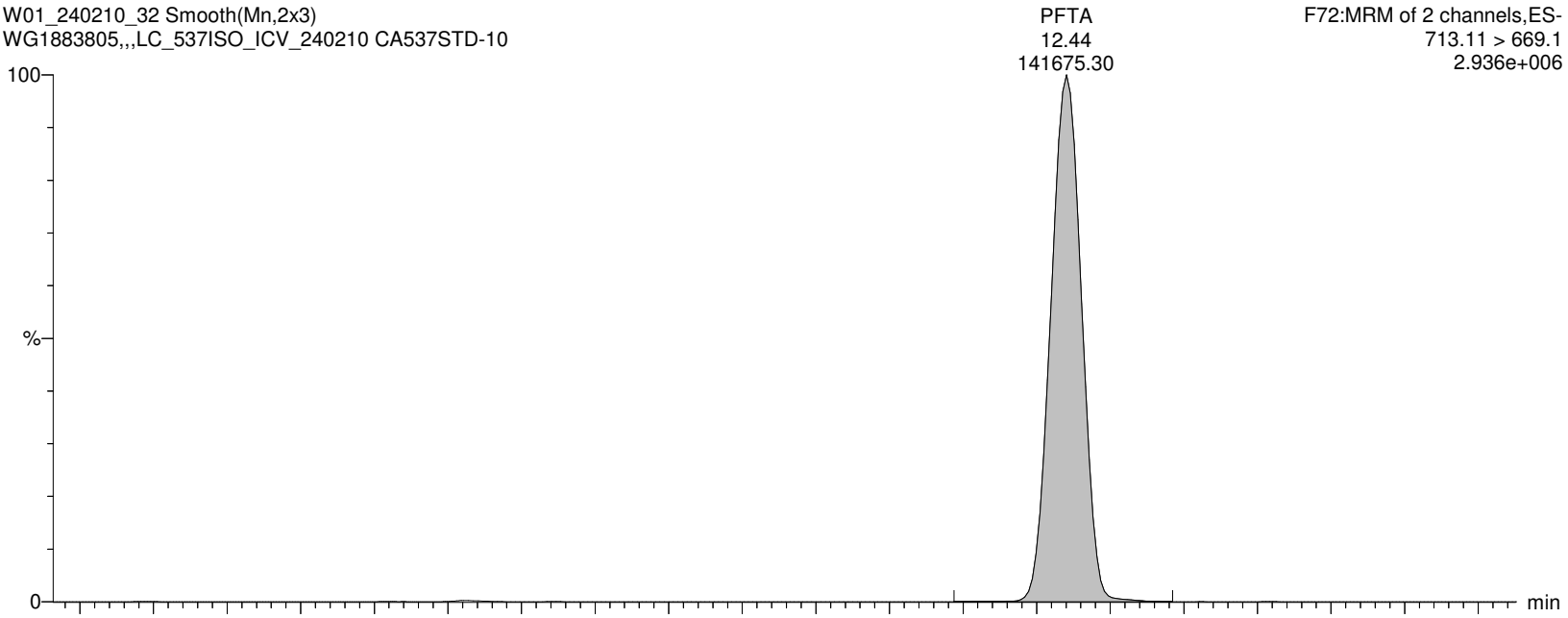

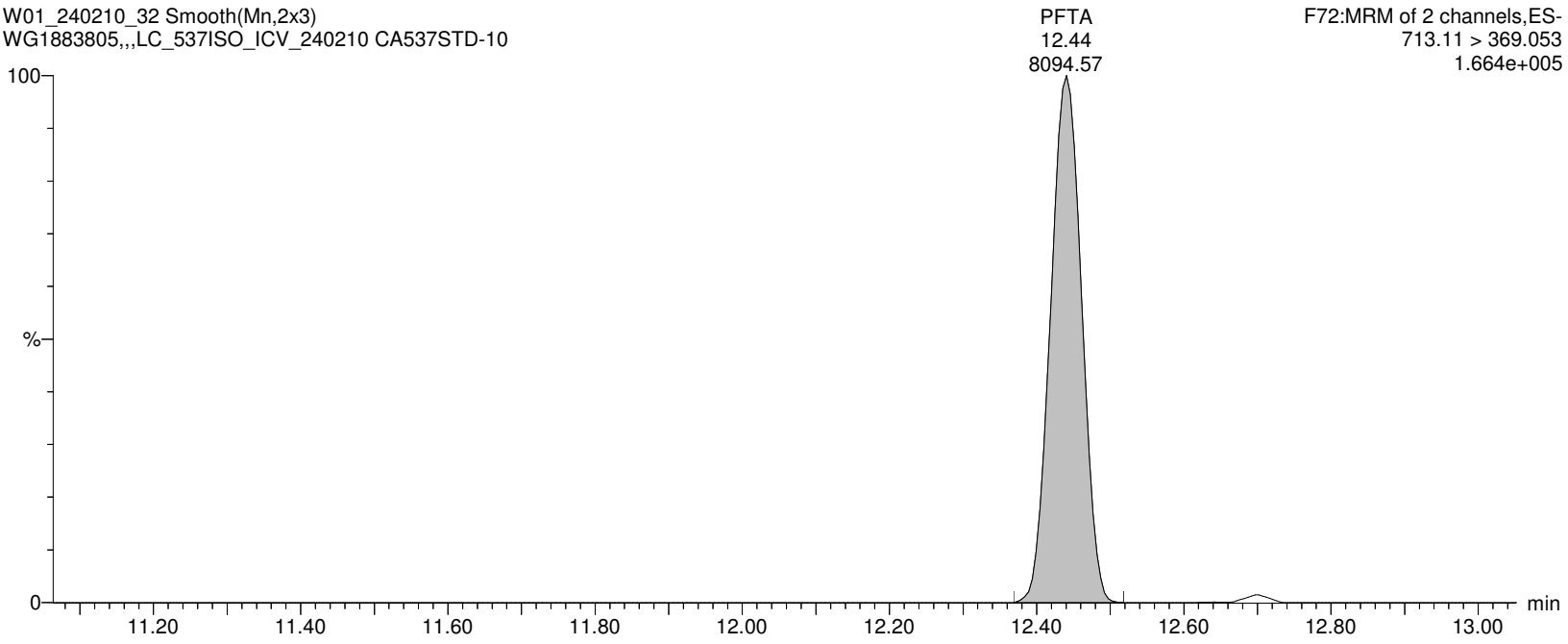

all concentration units in (ng/mL)

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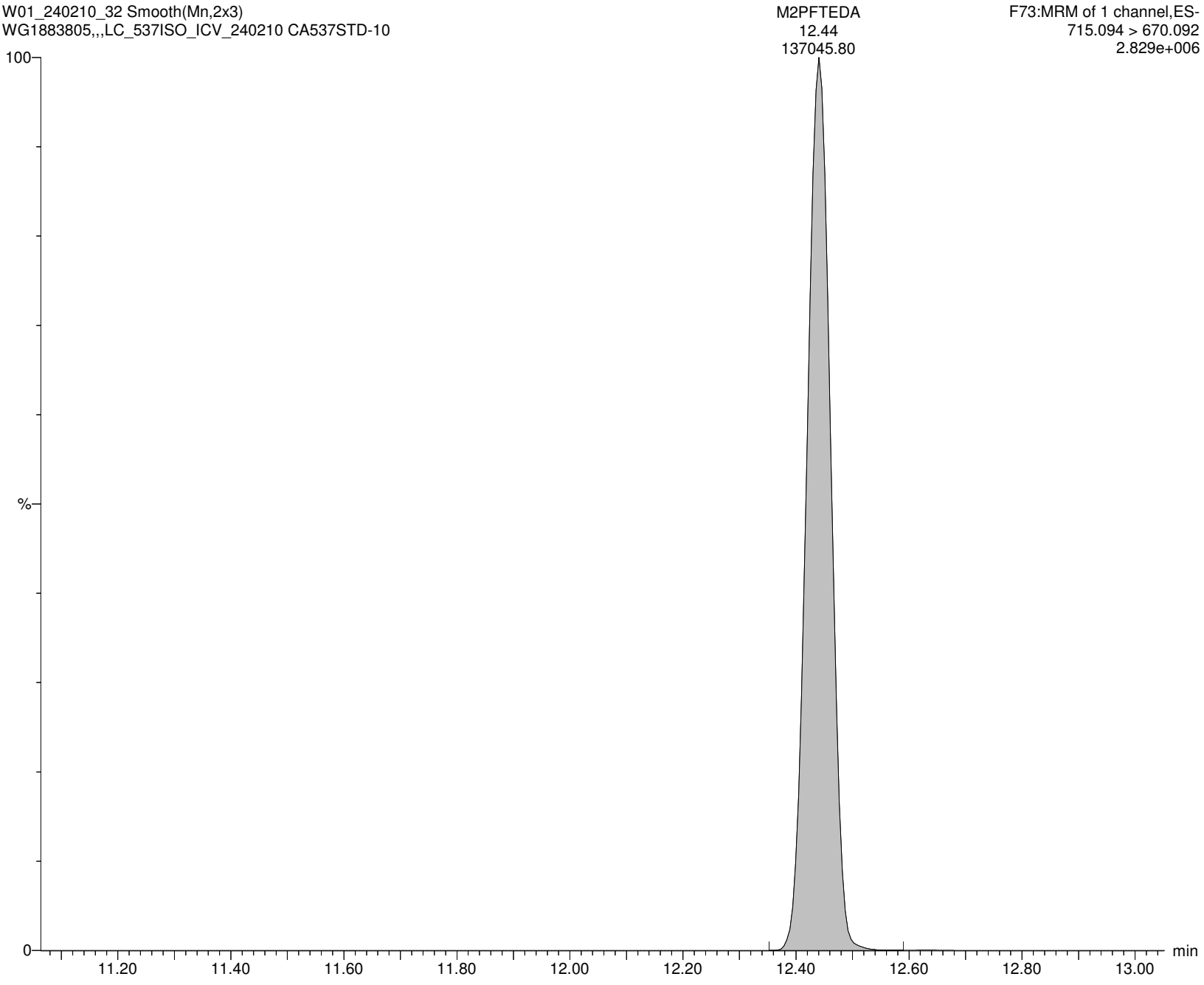

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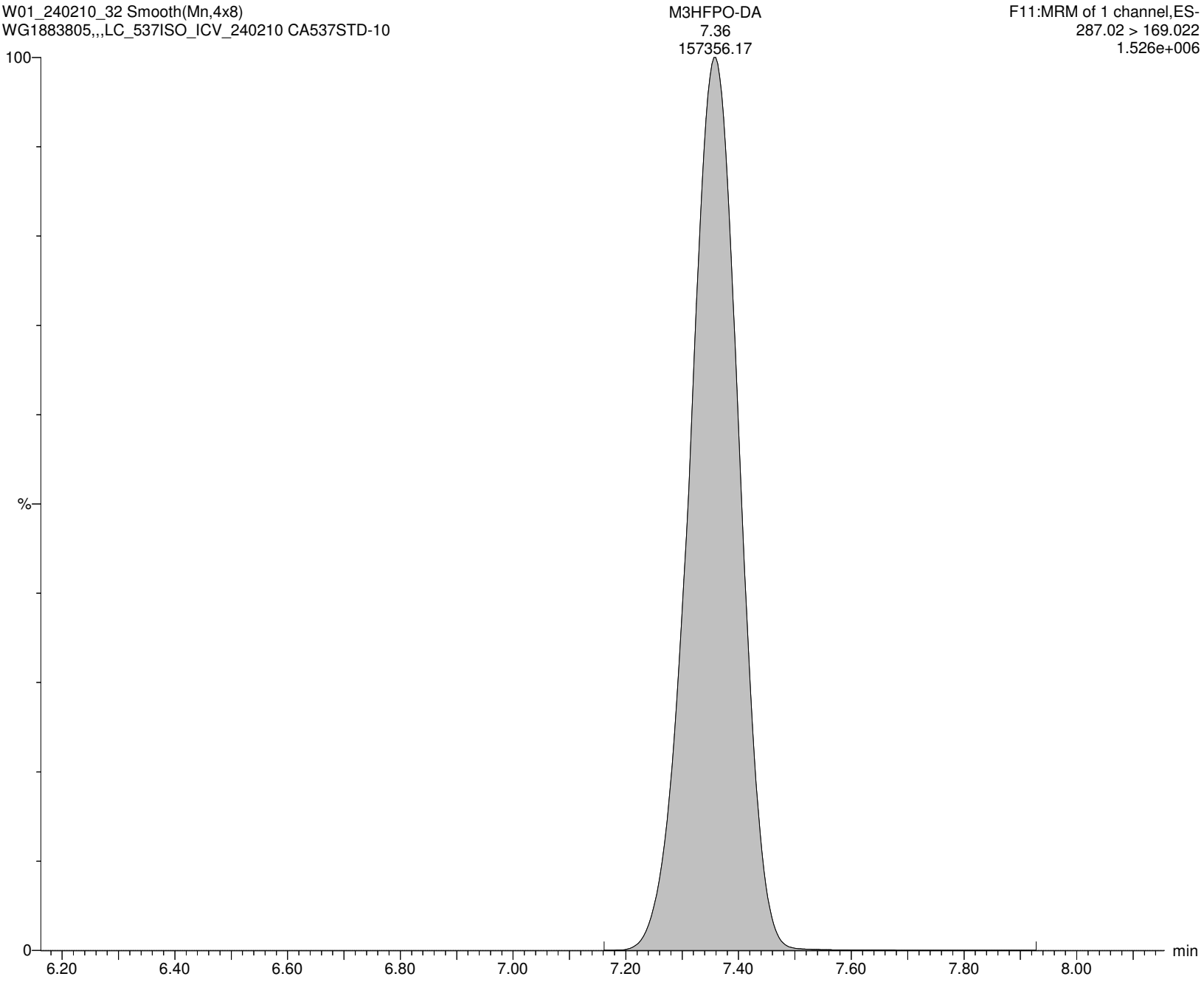

all concentration units in (ng/mL)

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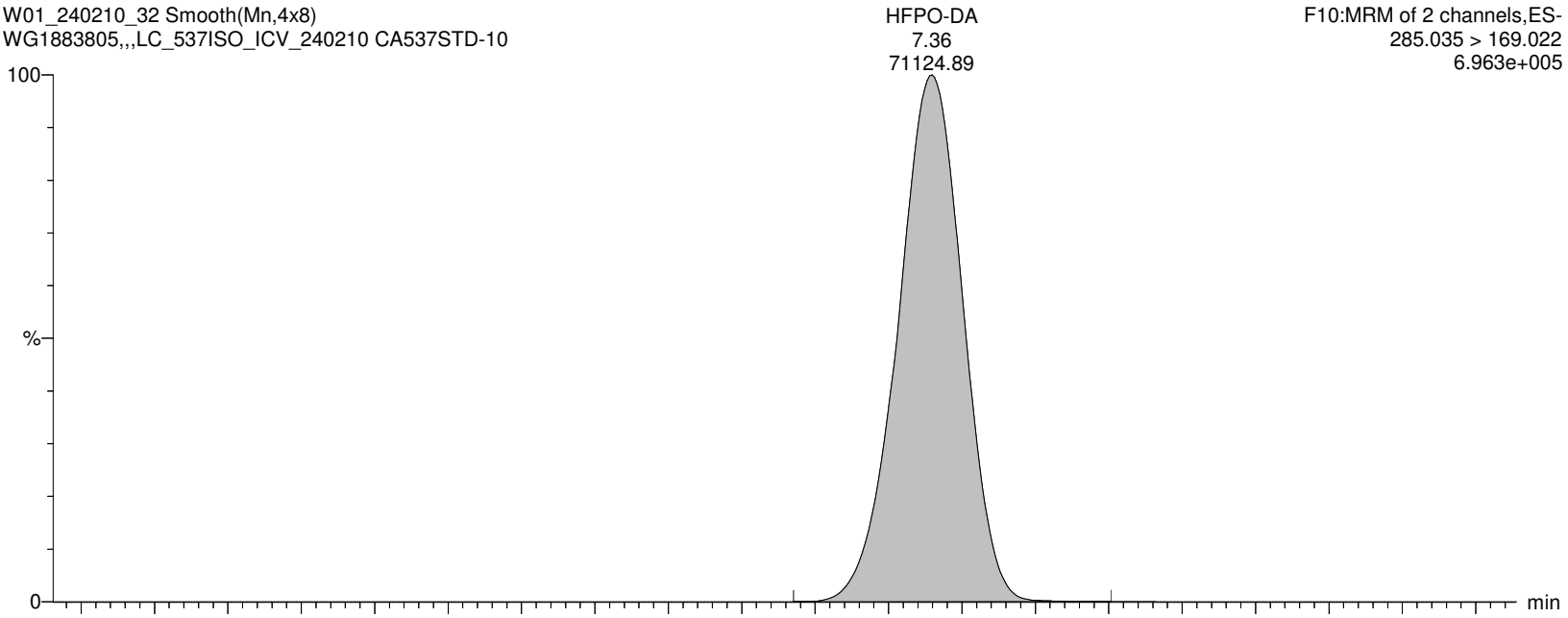

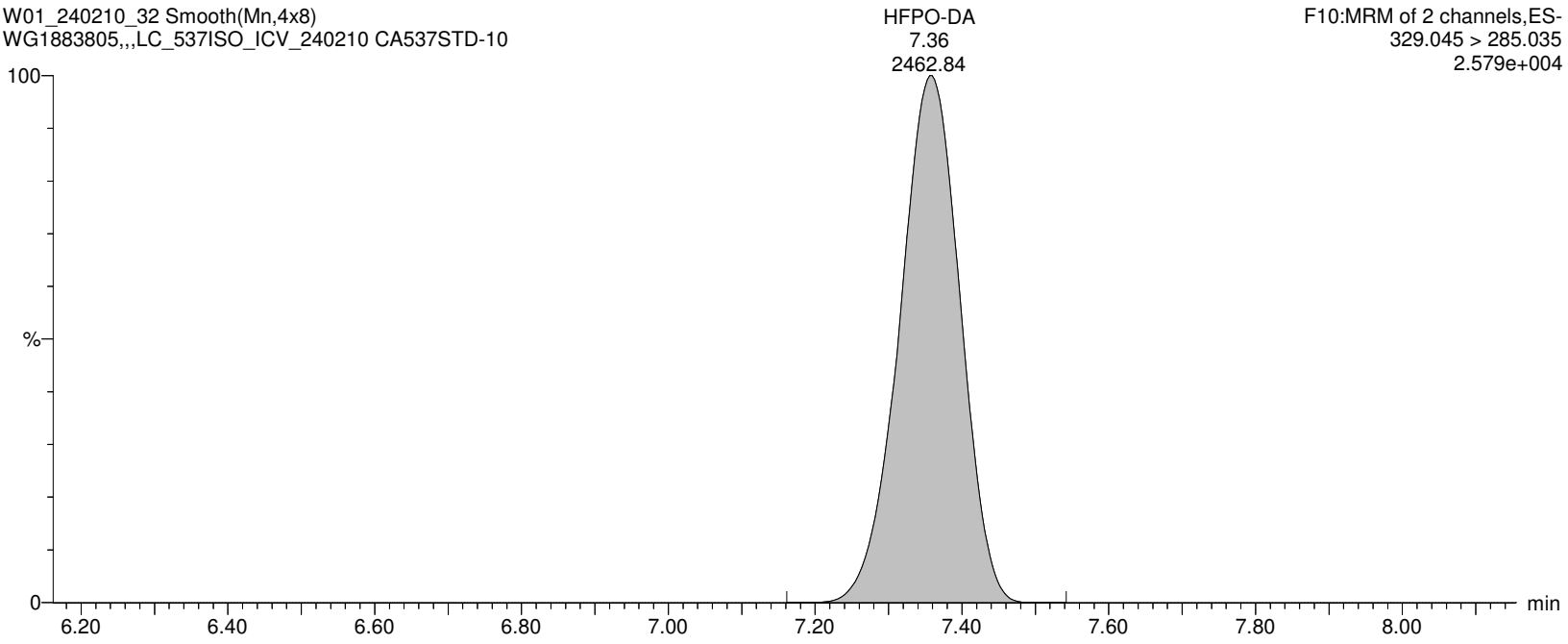

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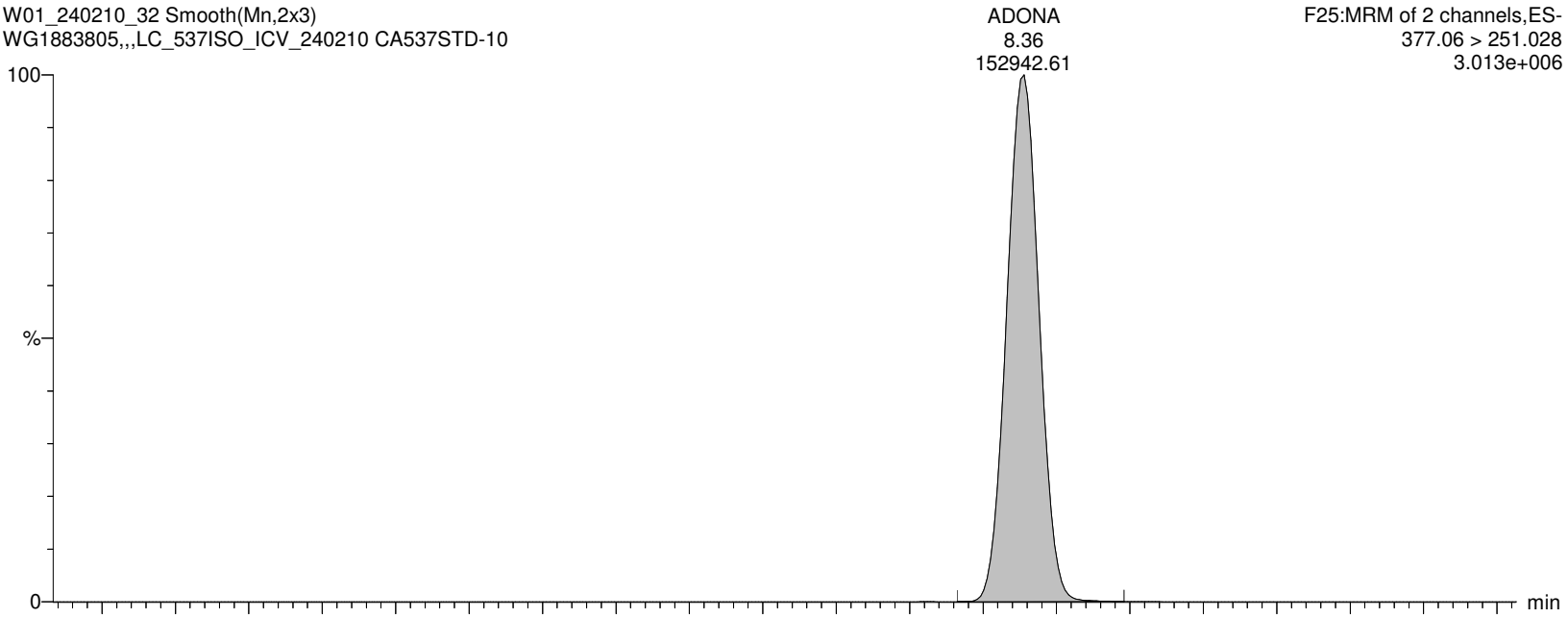

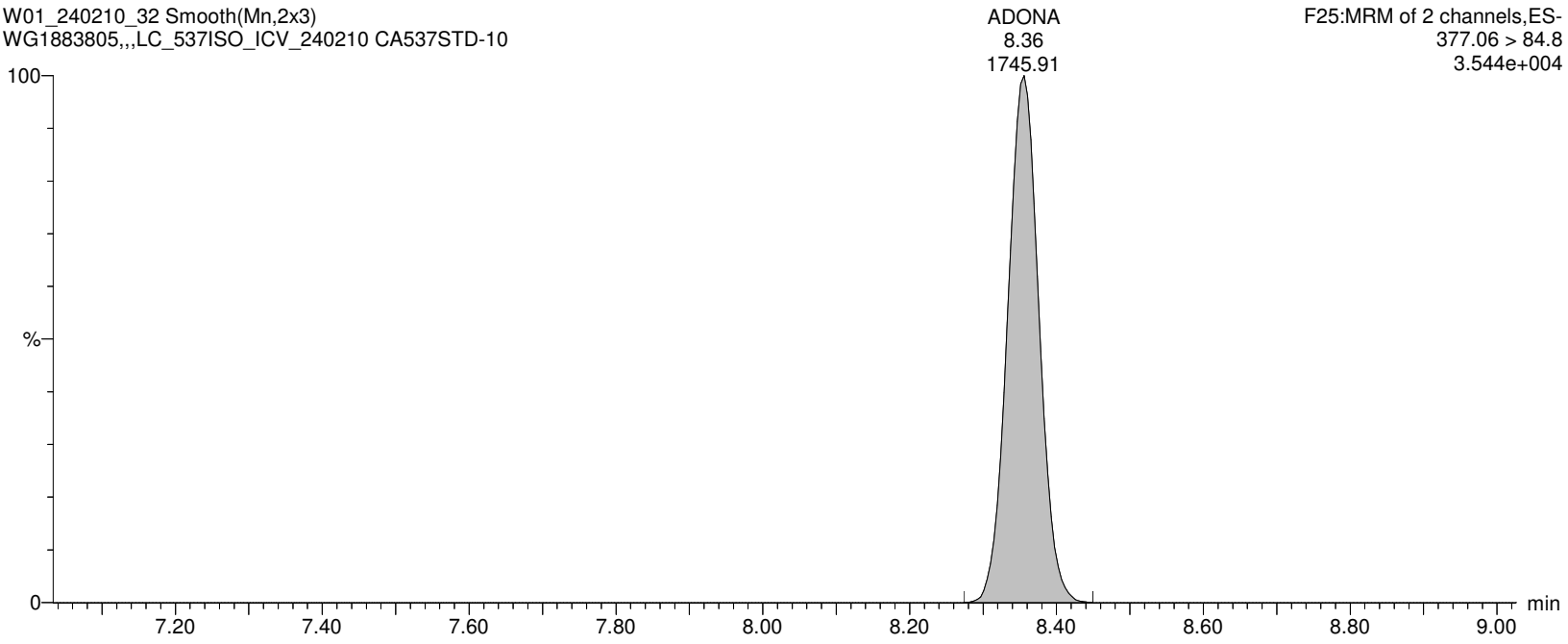

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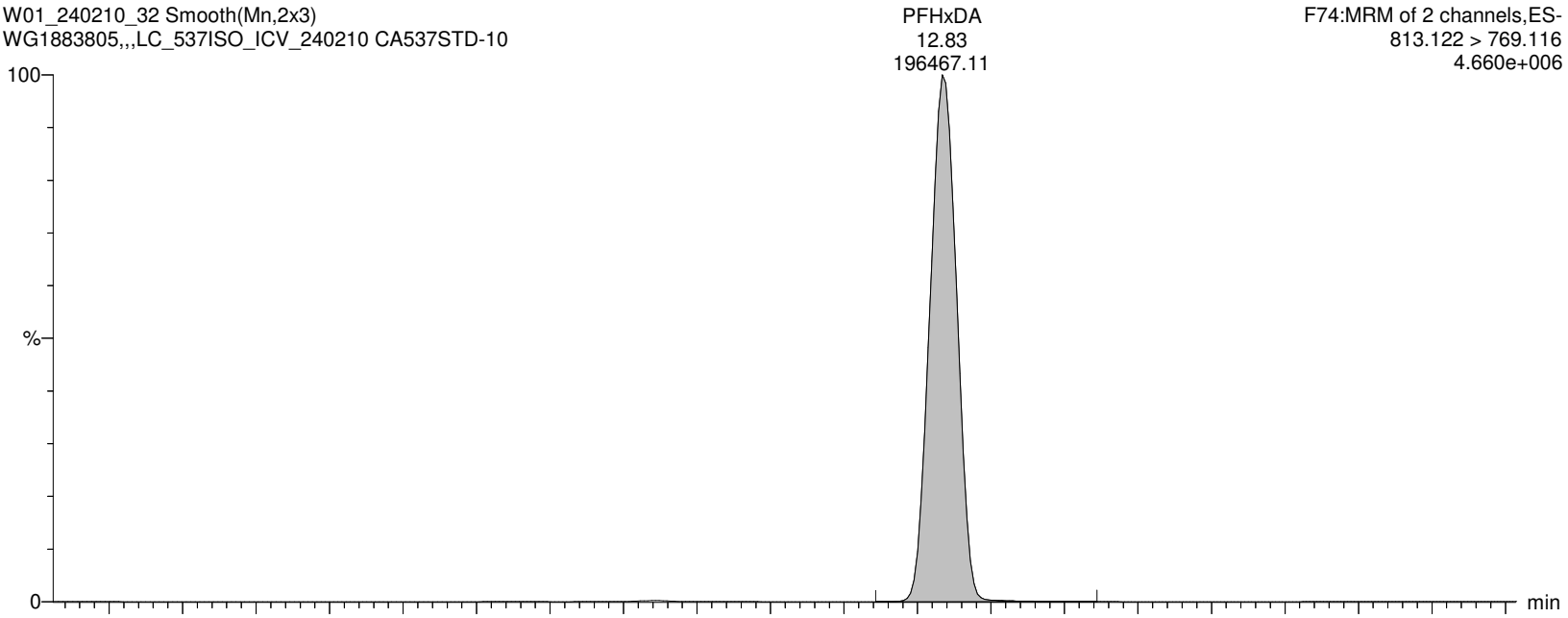

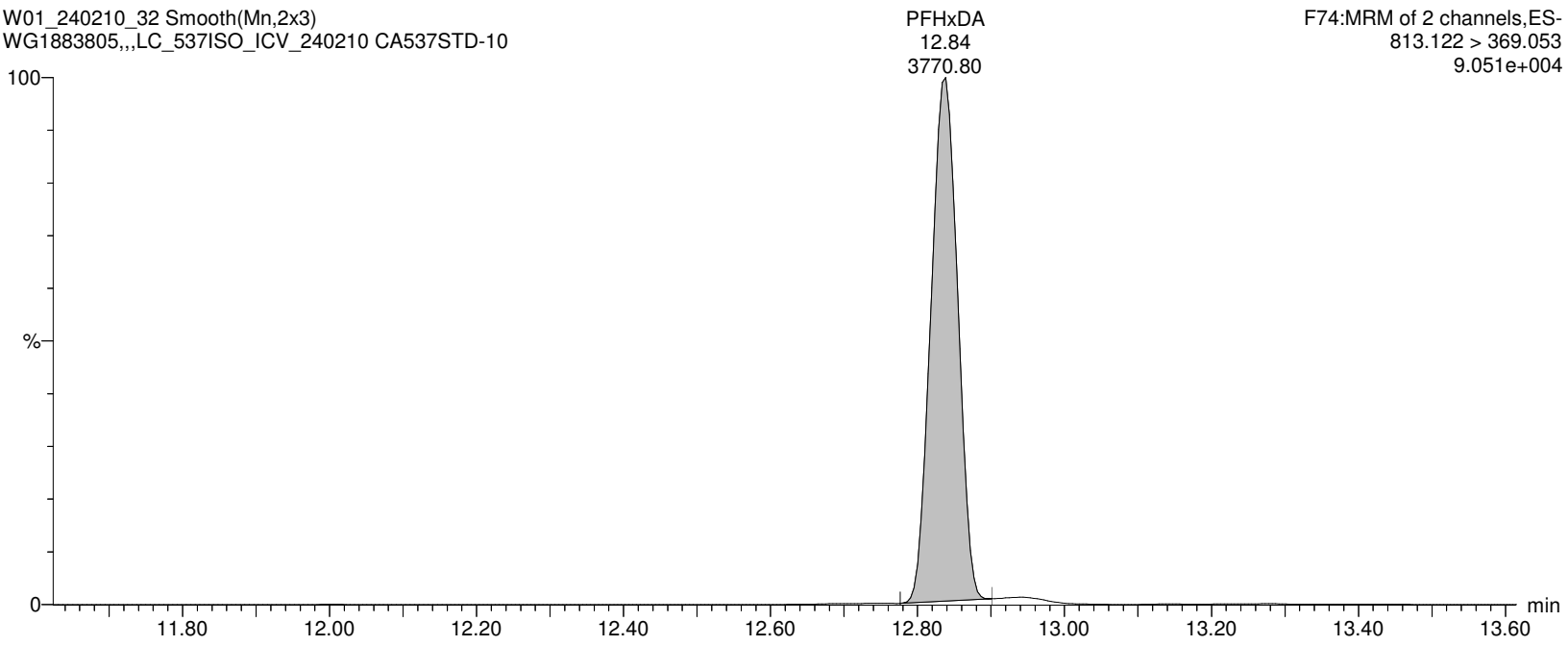

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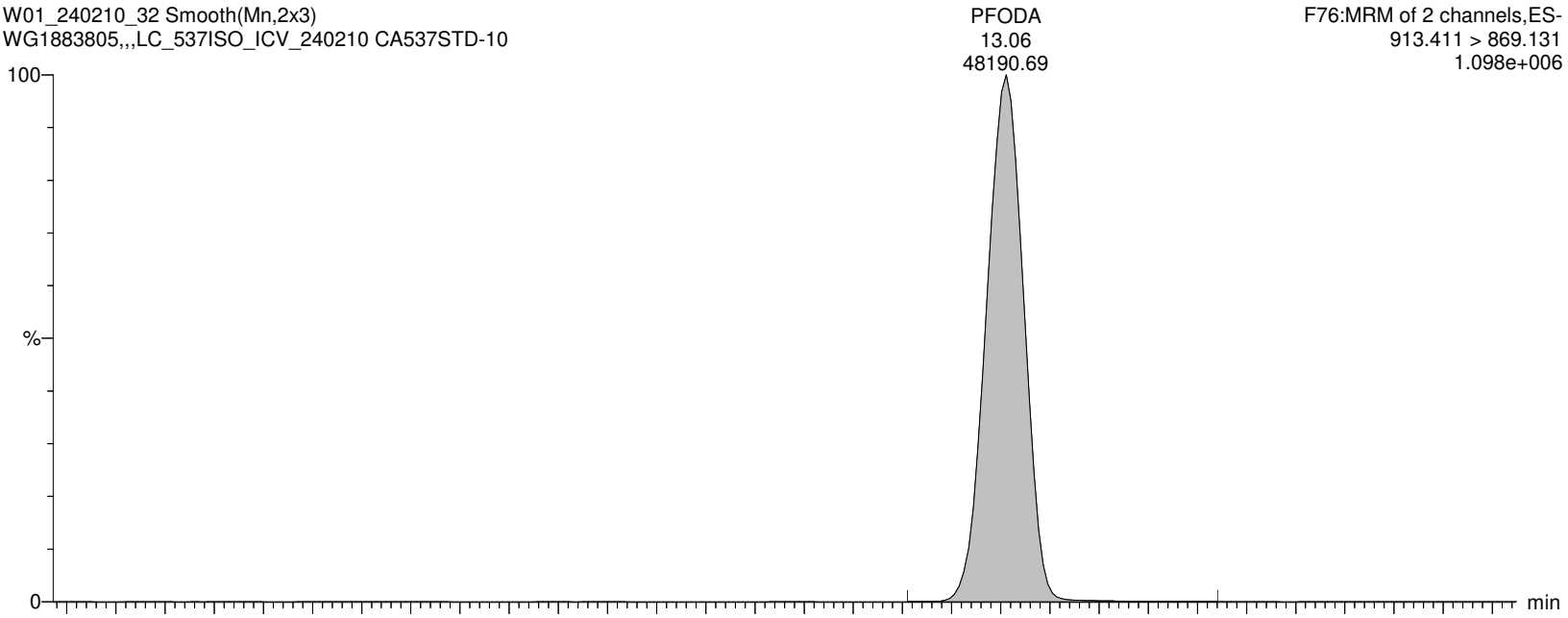

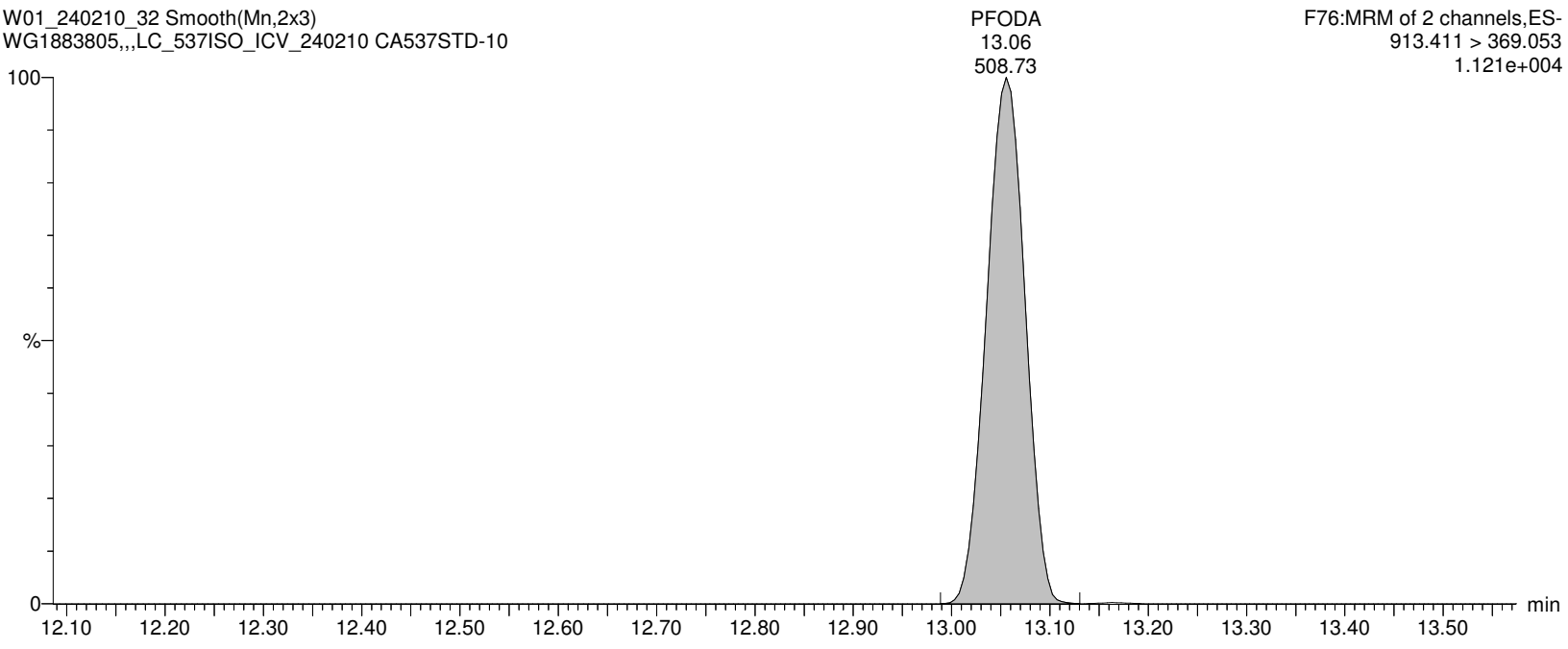

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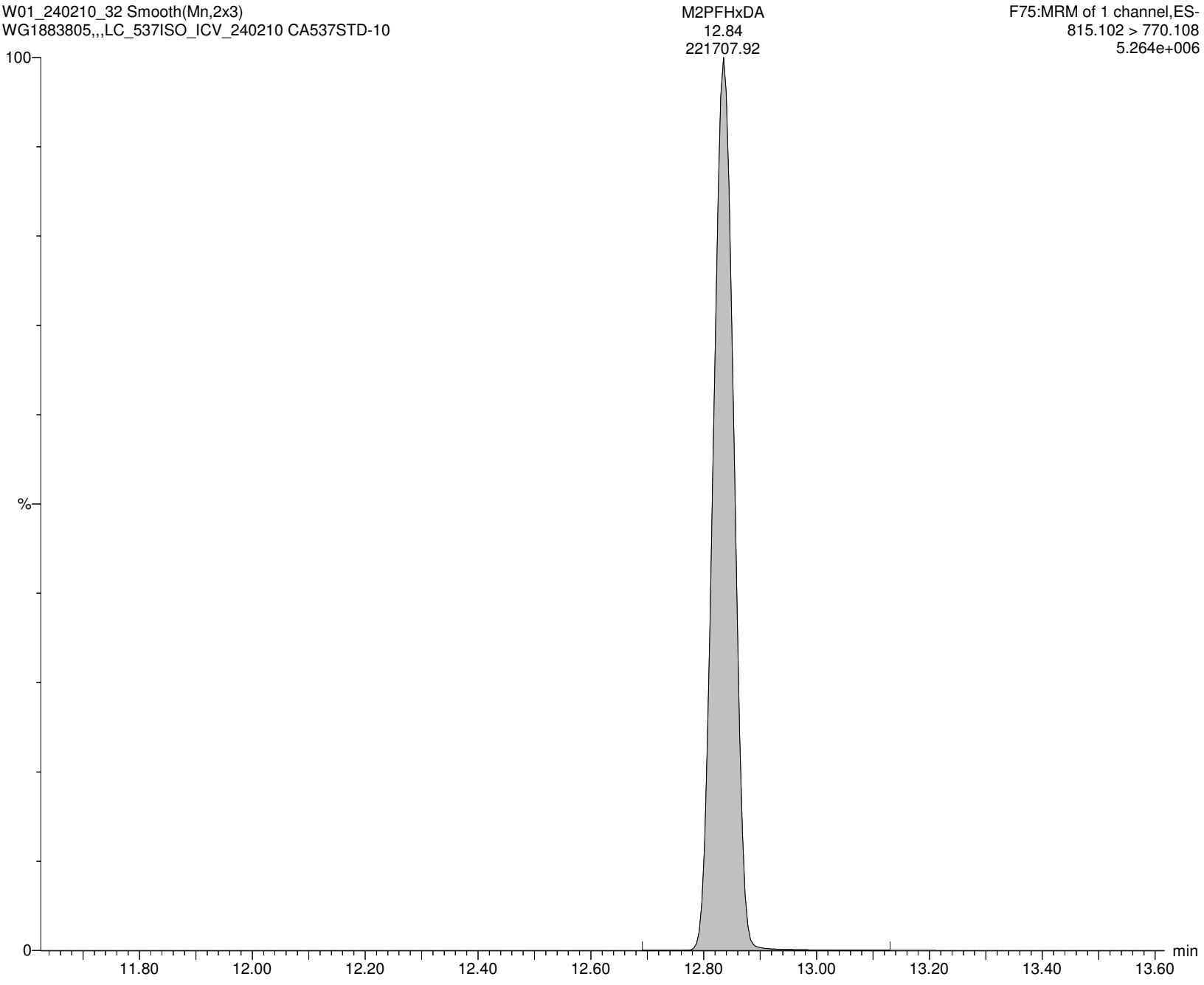

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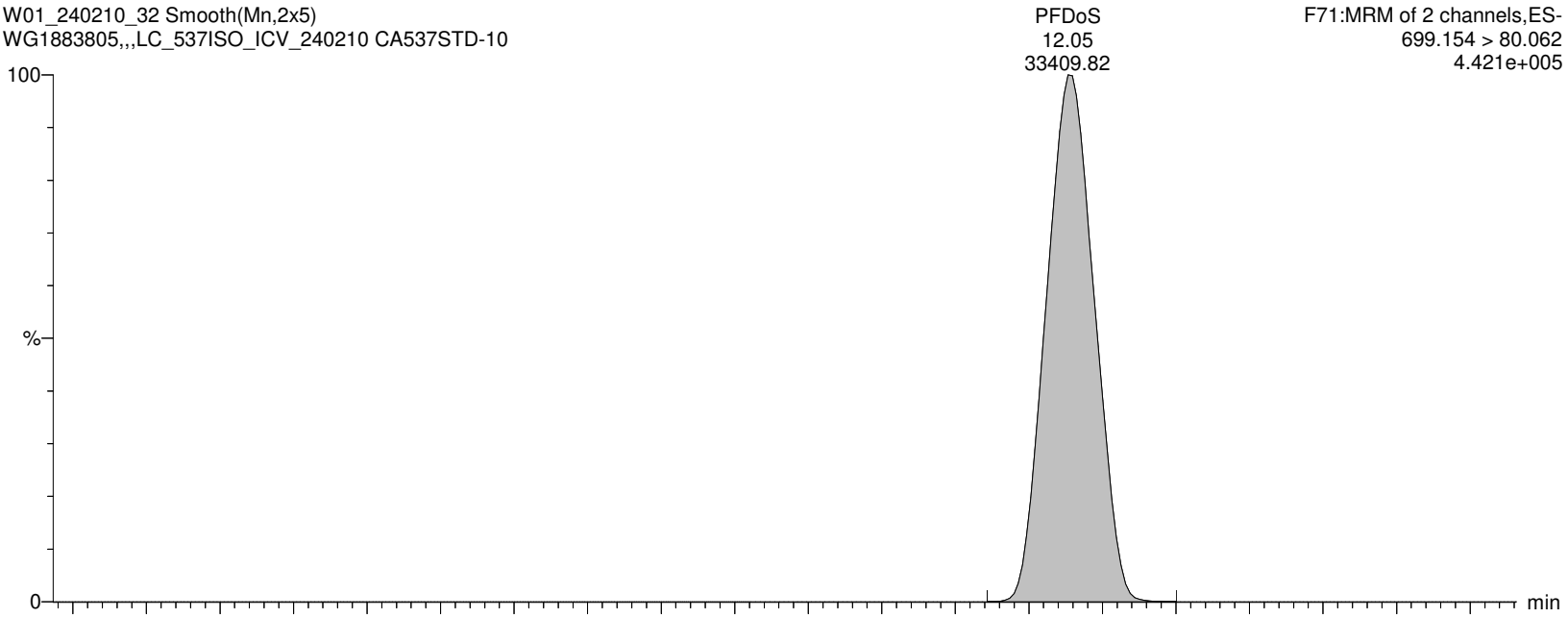

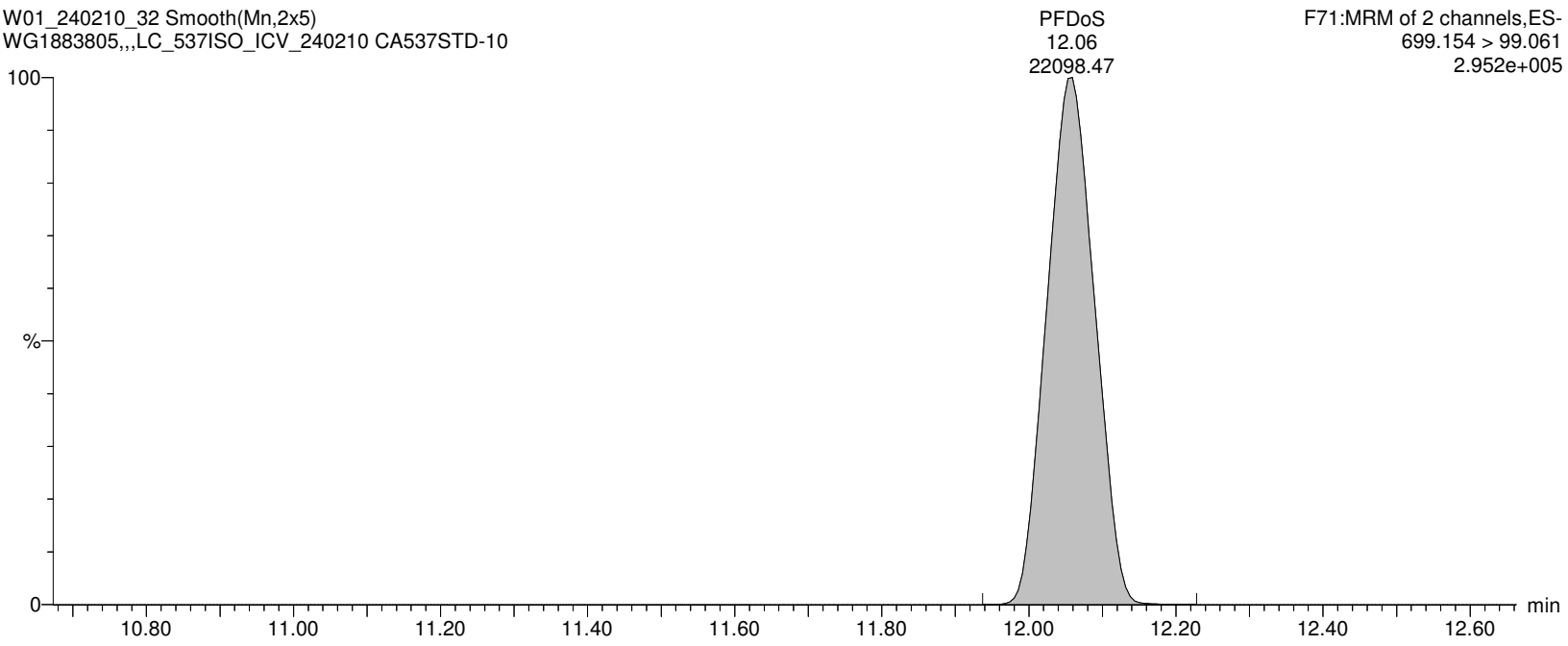

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

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Date: 11-Feb-2024
Time: 10:57:05
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User: LCMS01:SG
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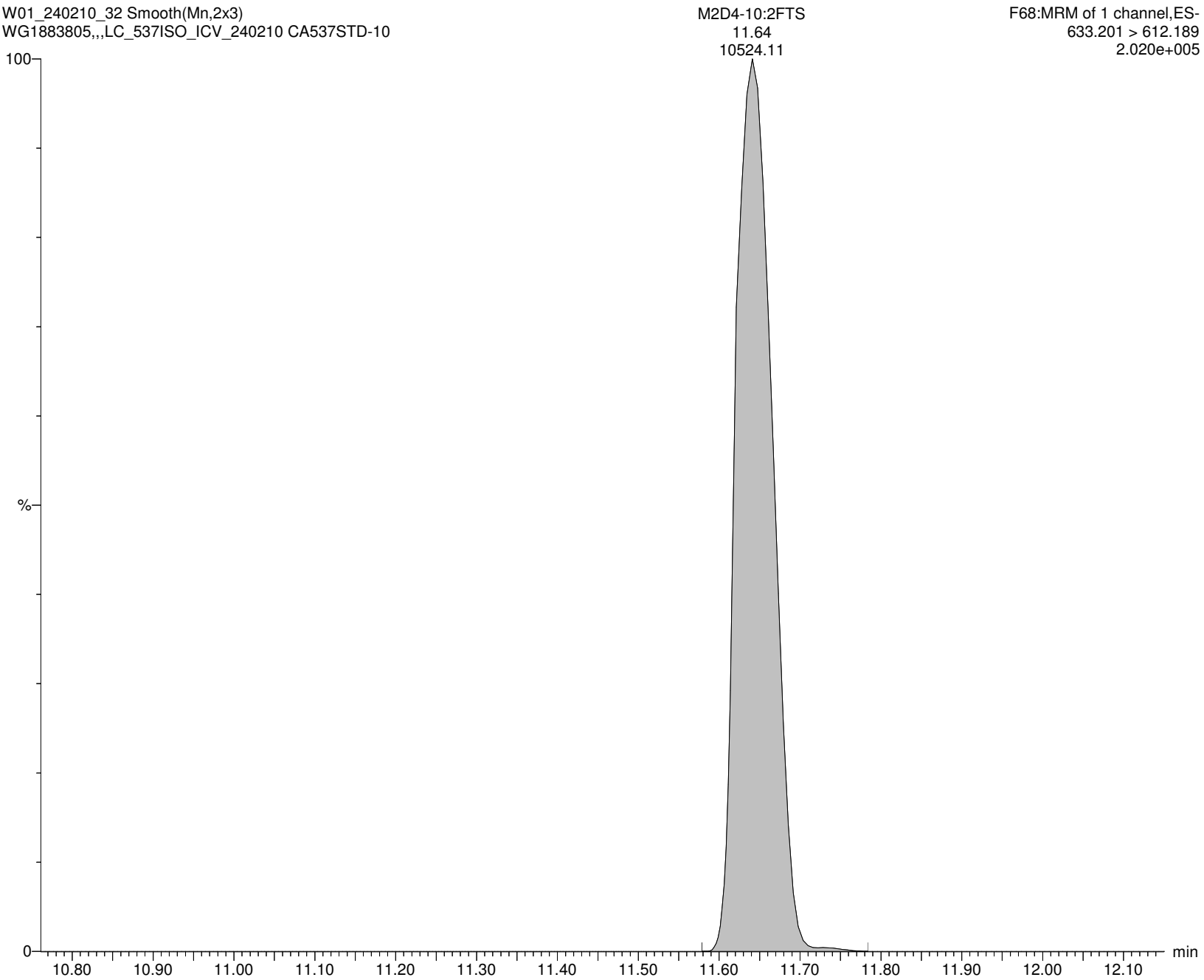

all concentration units in (ng/mL)

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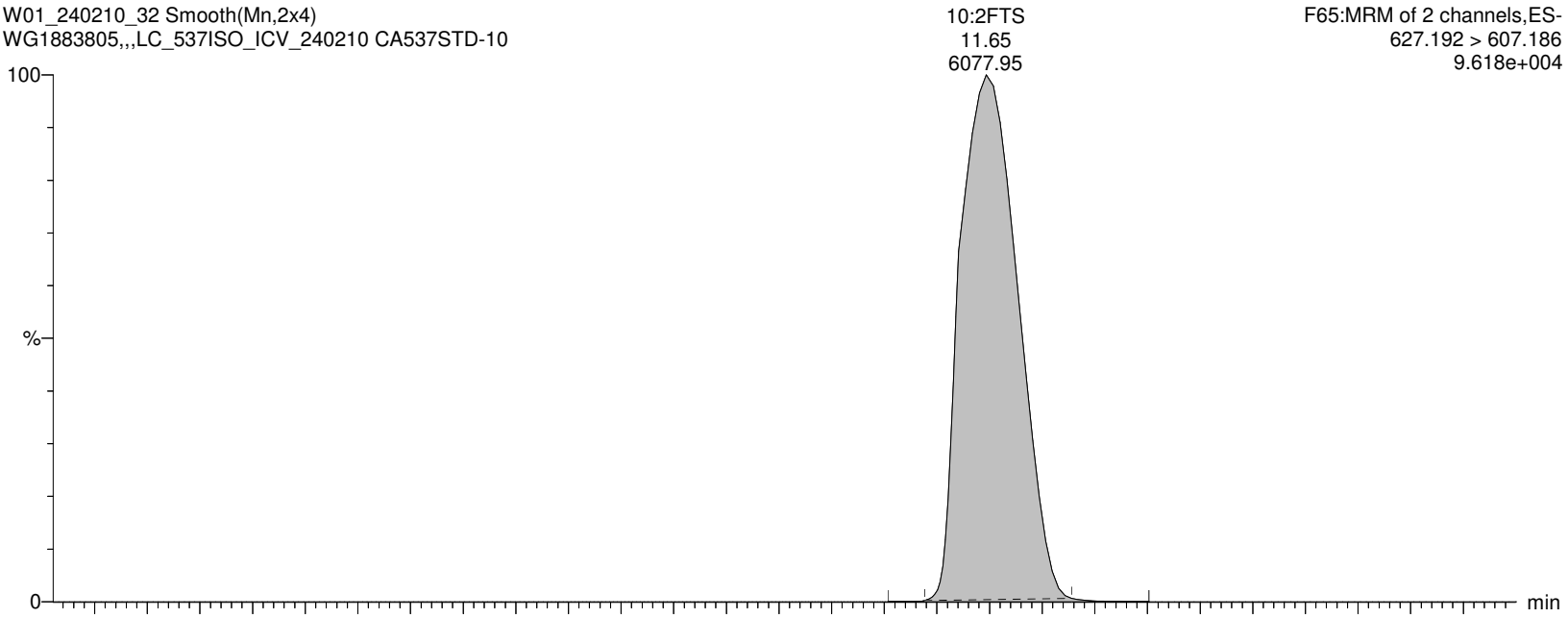

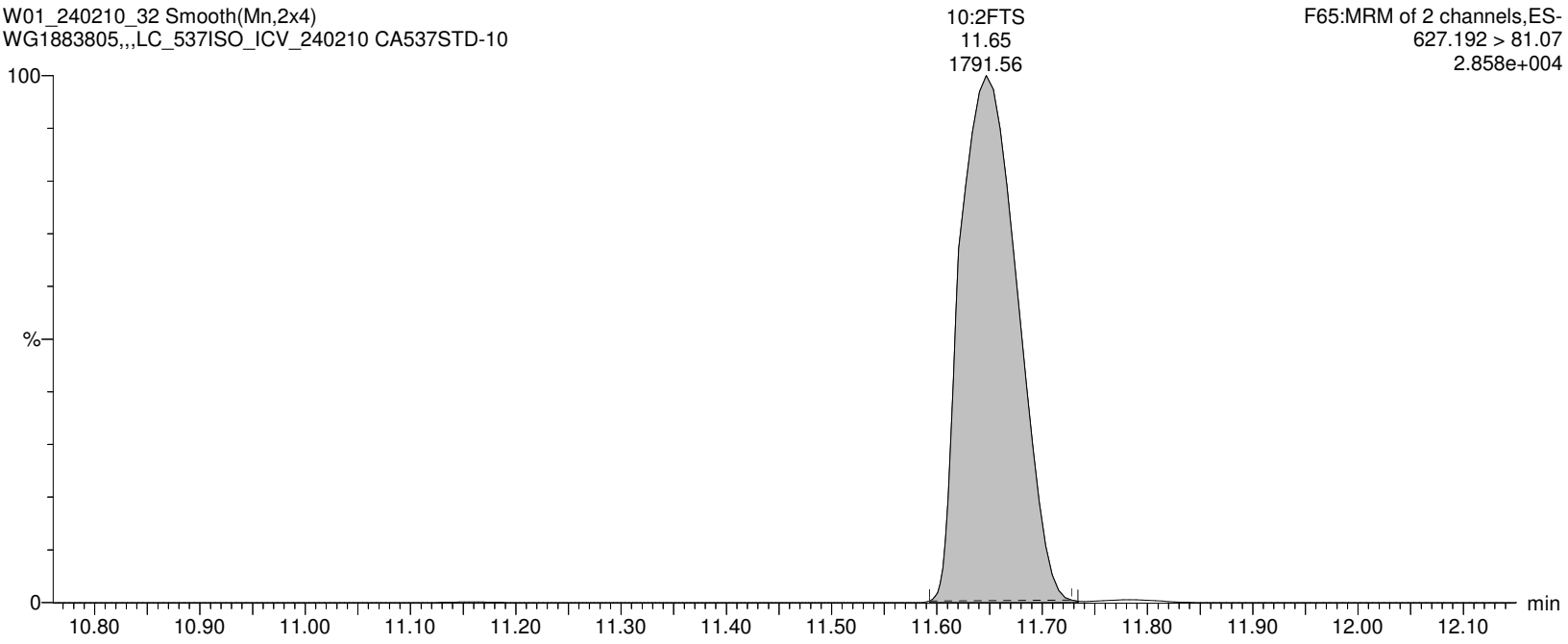

all concentration units in (ng/mL)

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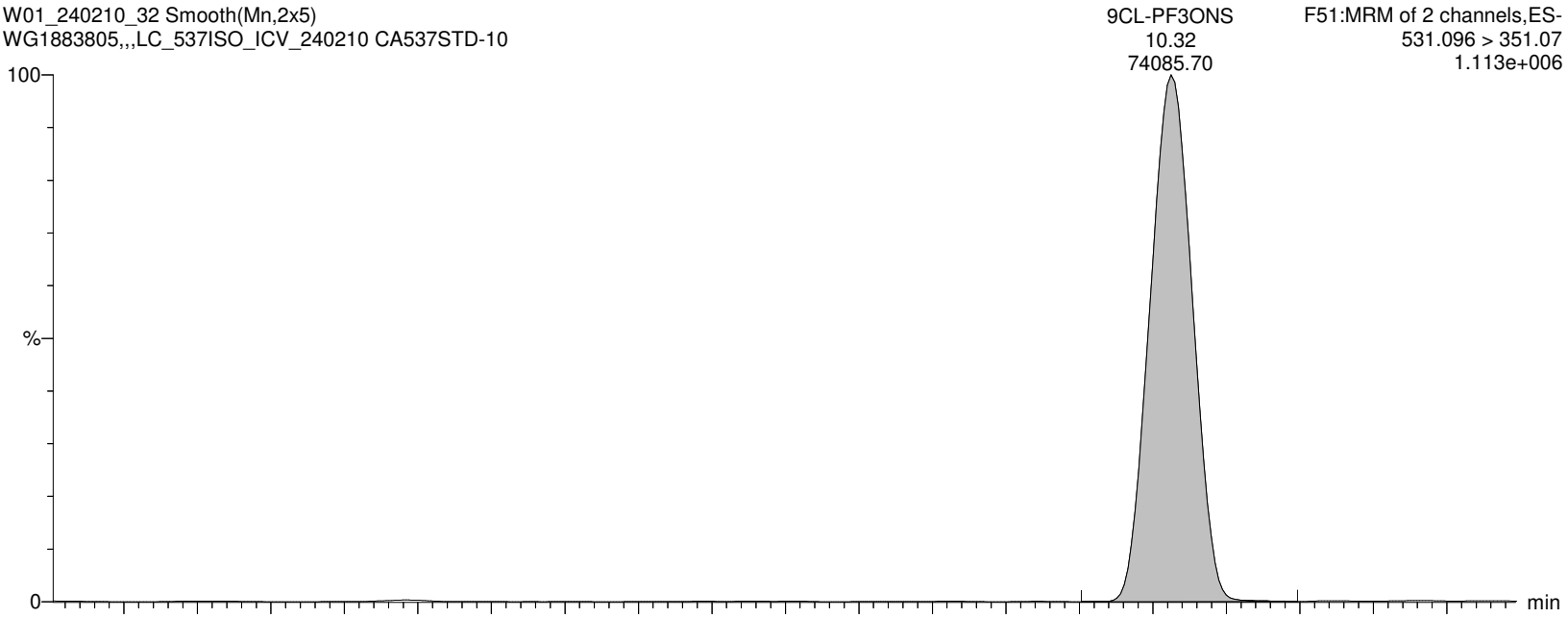
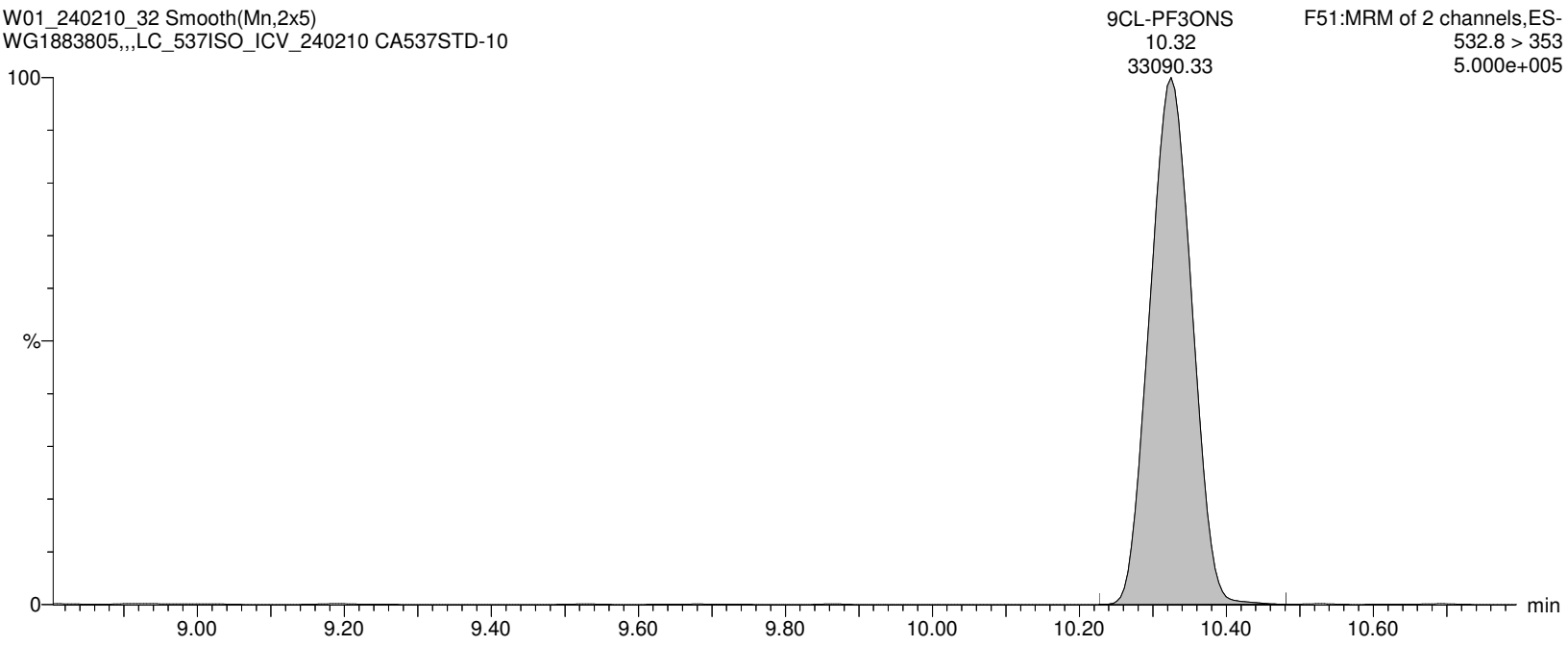
9CL-PF3ONS





all concentration units in (ng/mL)

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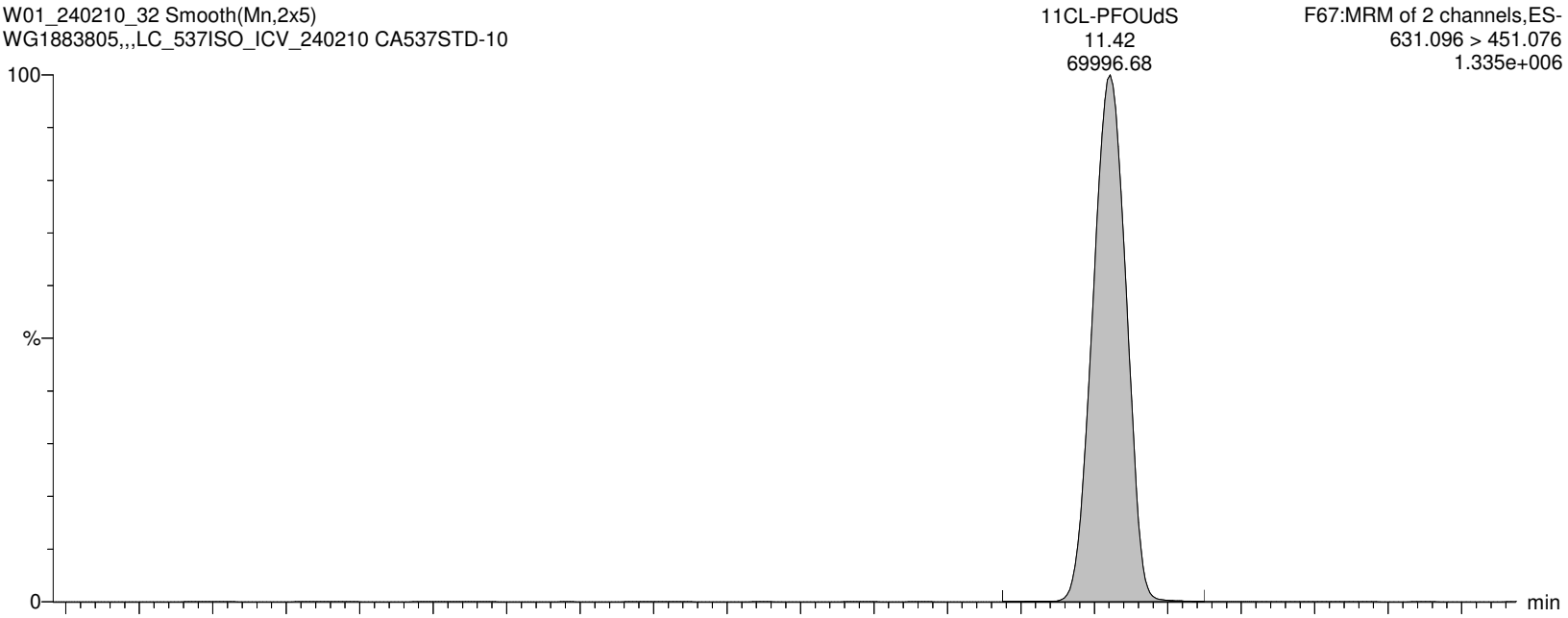
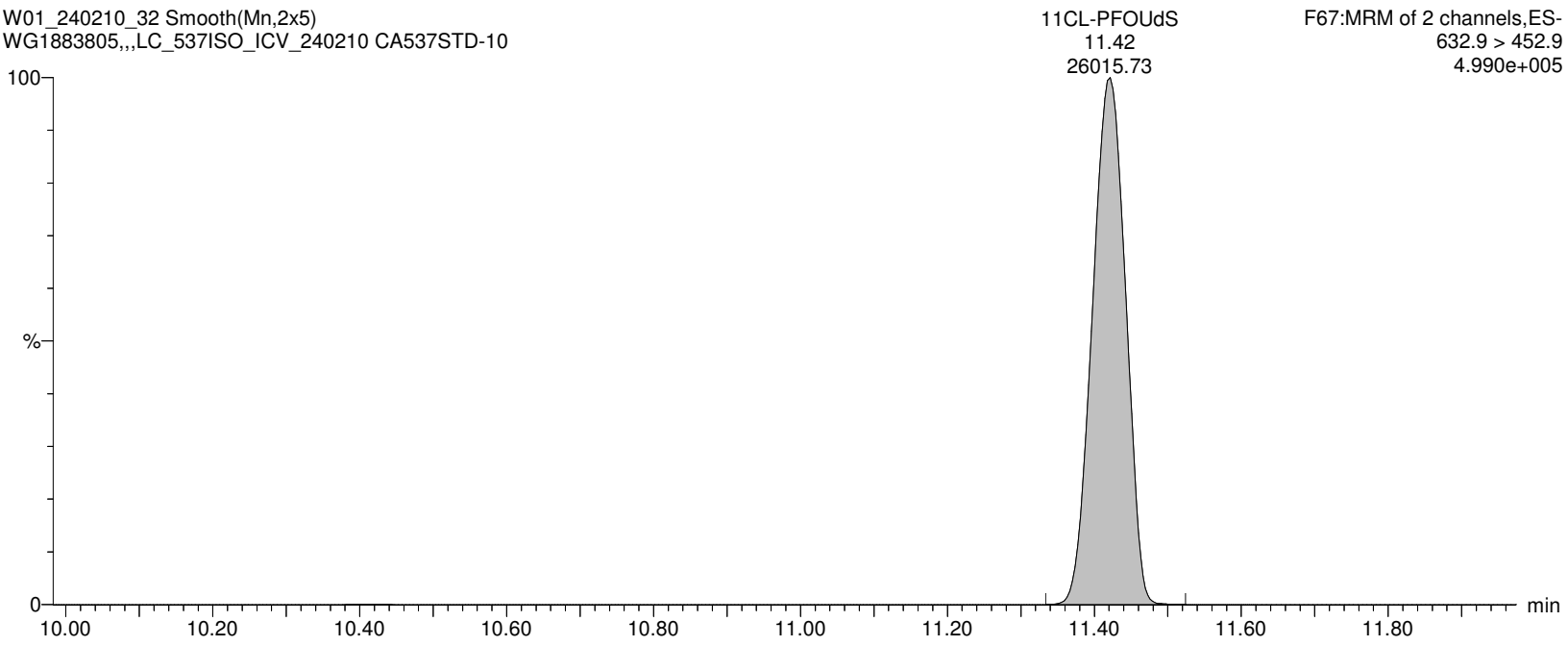
11CL-PFOUdS





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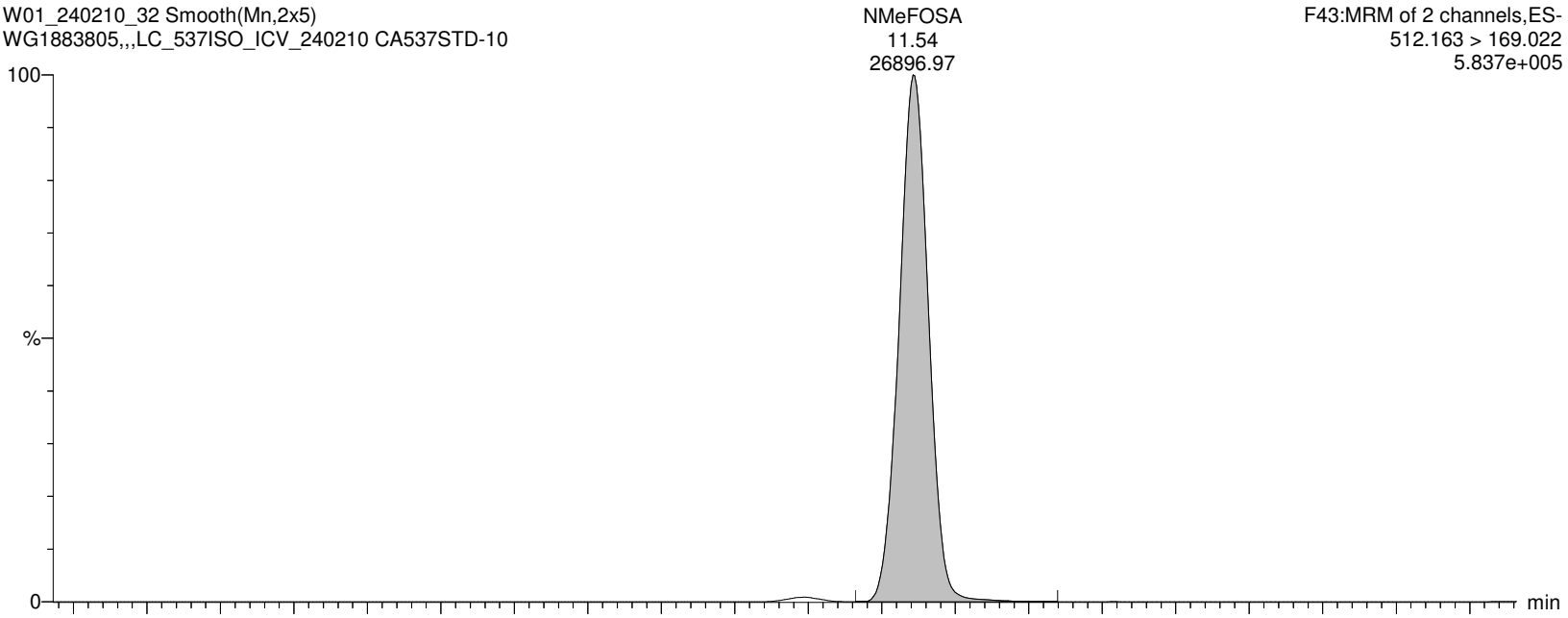

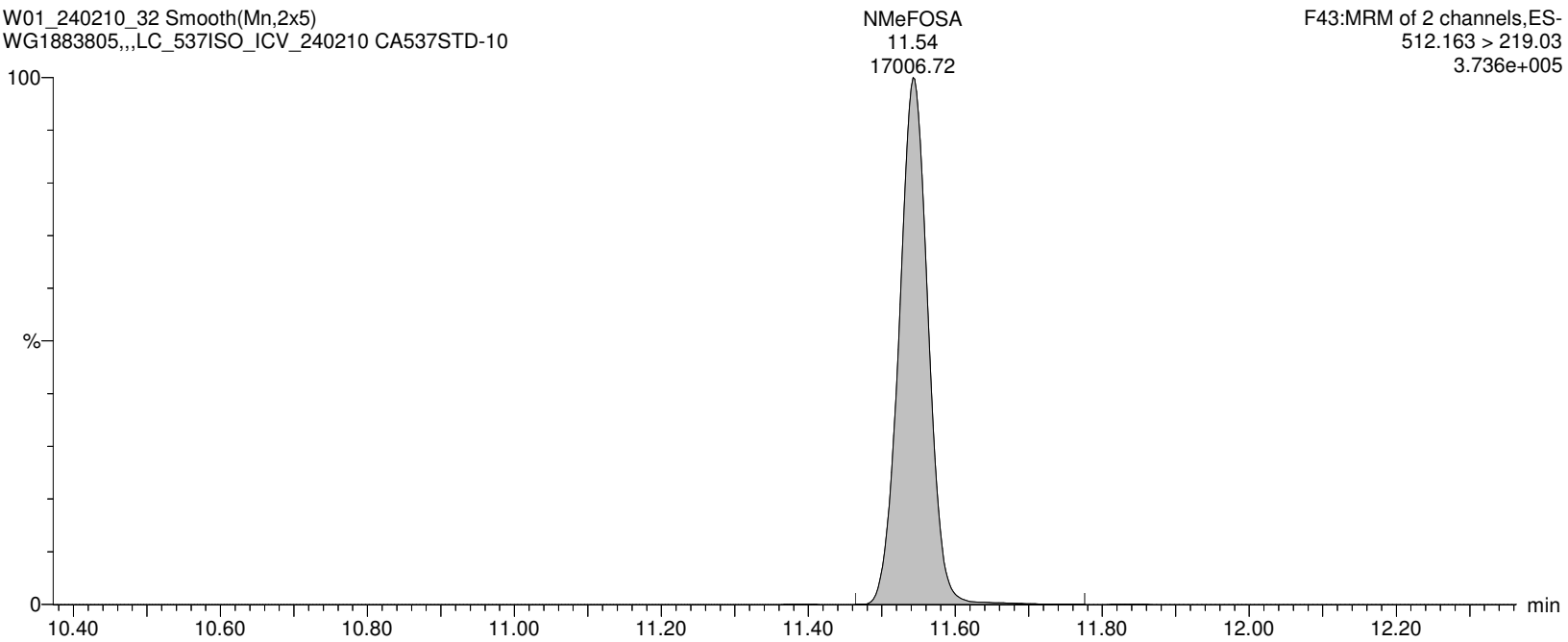

all concentration units in (ng/mL)

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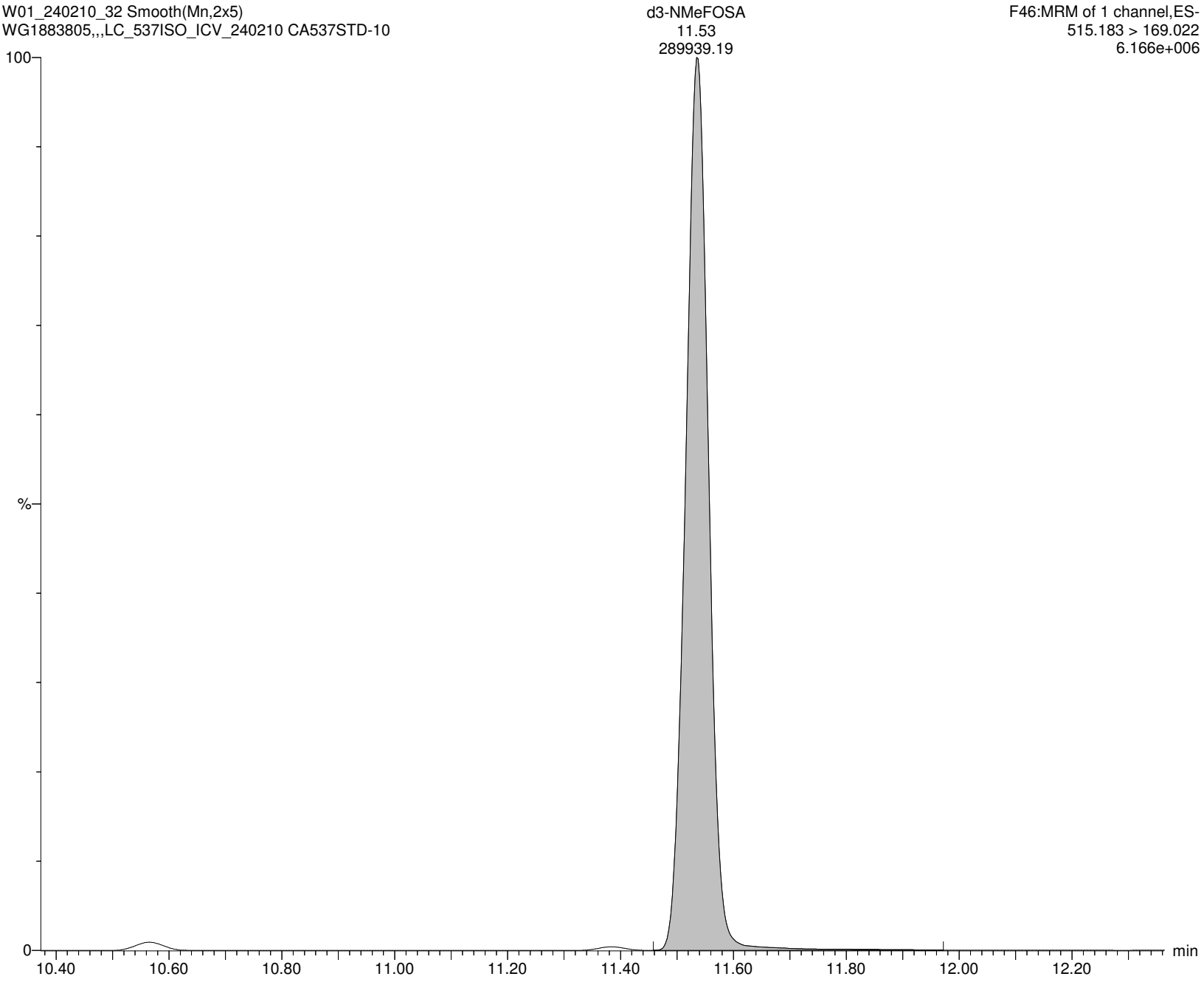
d3-NMeFOSA



all concentration units in (ng/mL)

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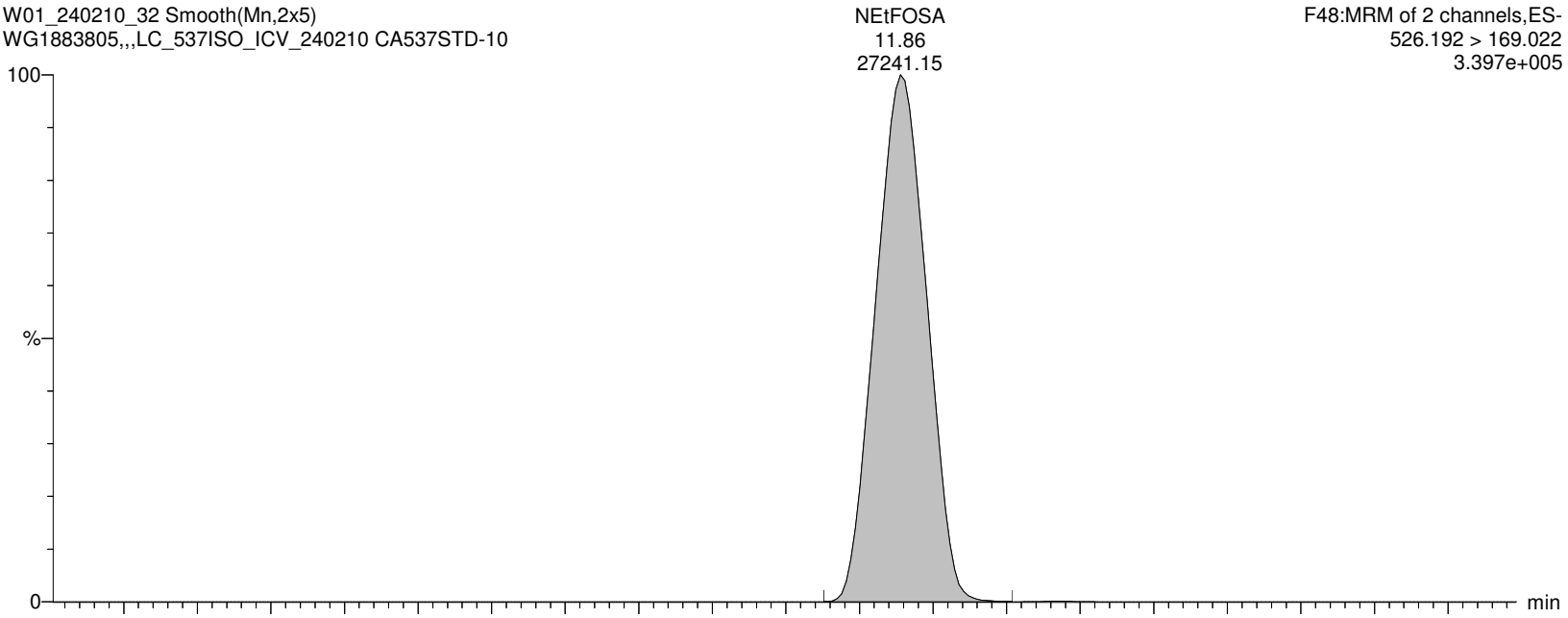

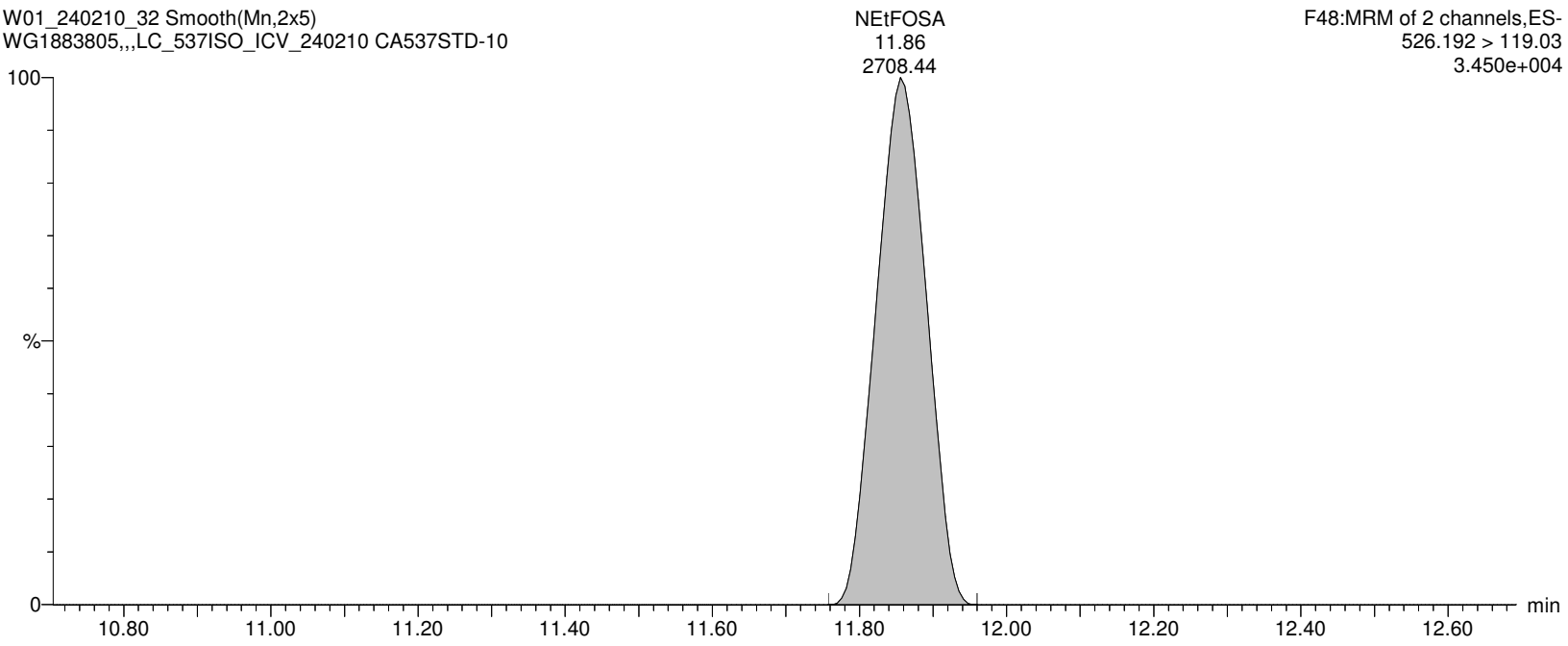

all concentration units in (ng/mL)

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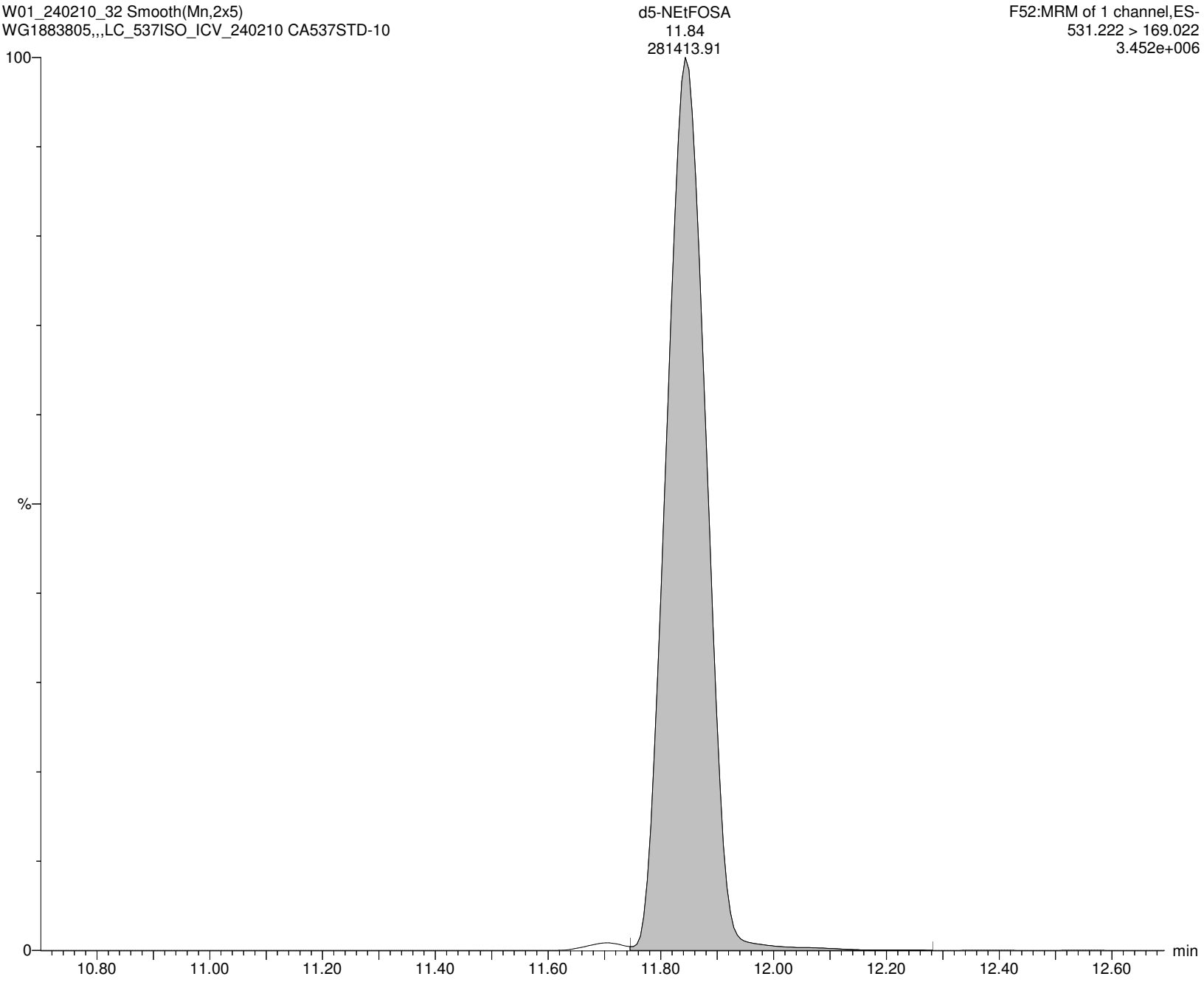

all concentration units in (ng/mL)

Alpha Analytical Inc.
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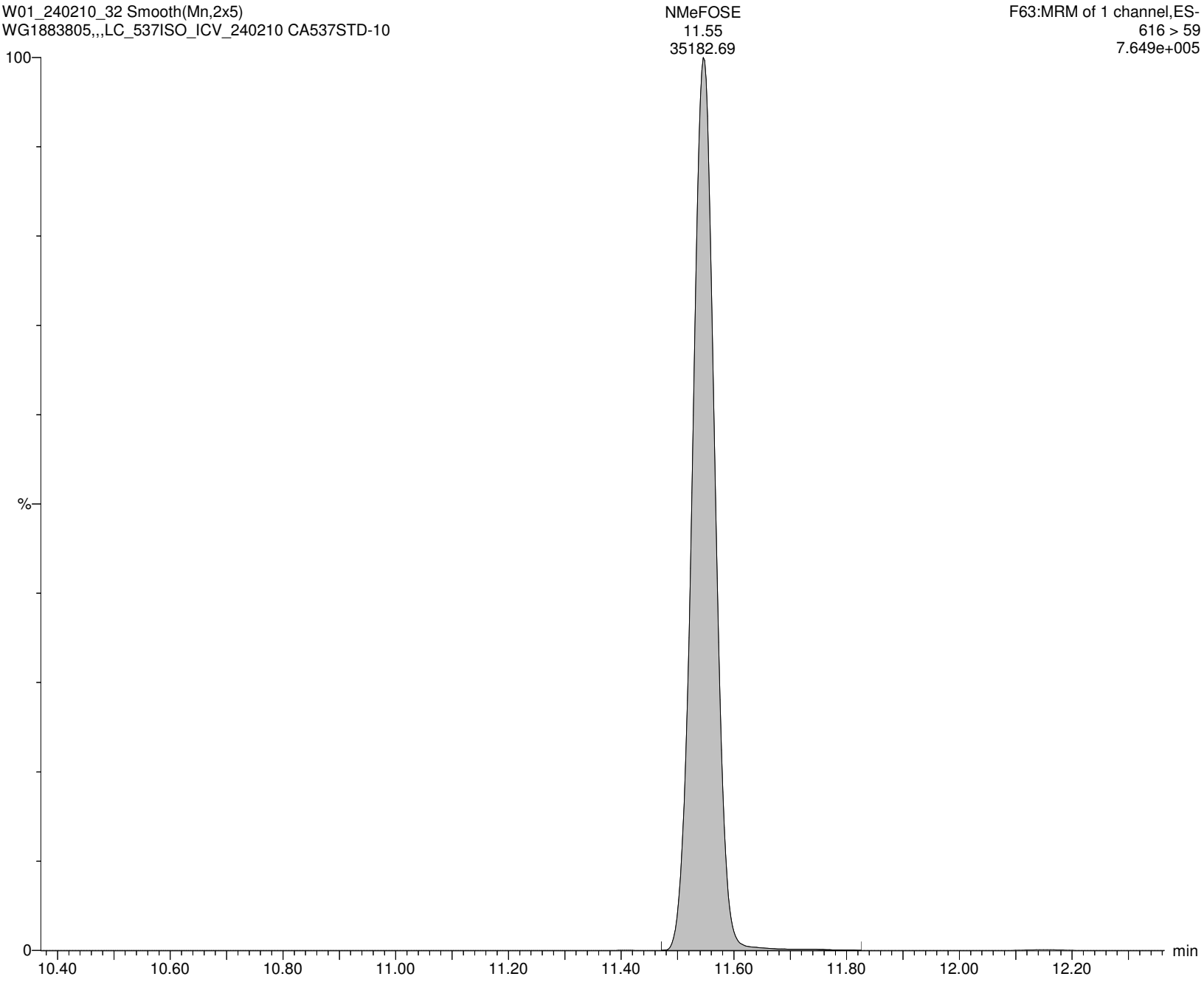

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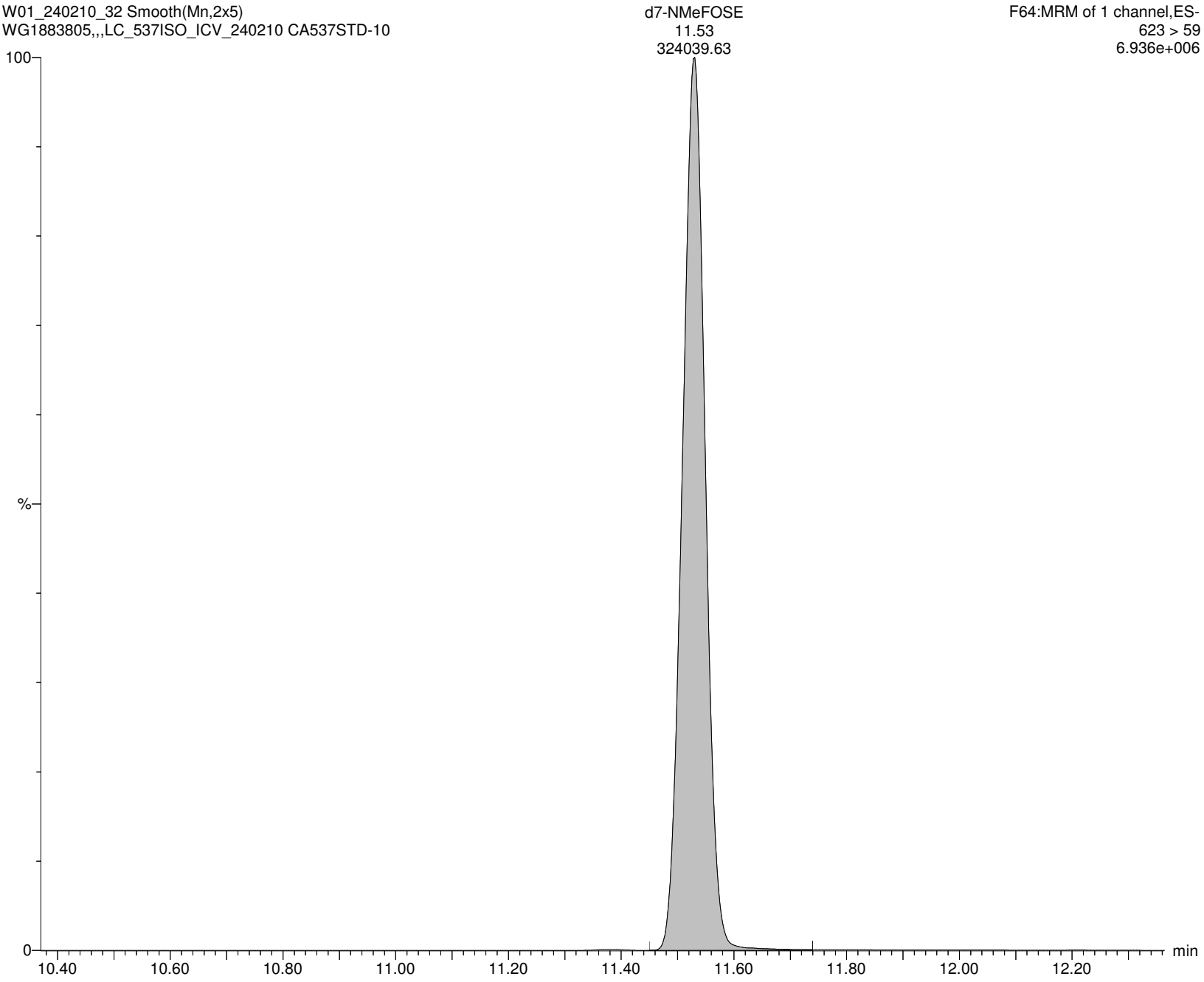

all concentration units in (ng/mL)

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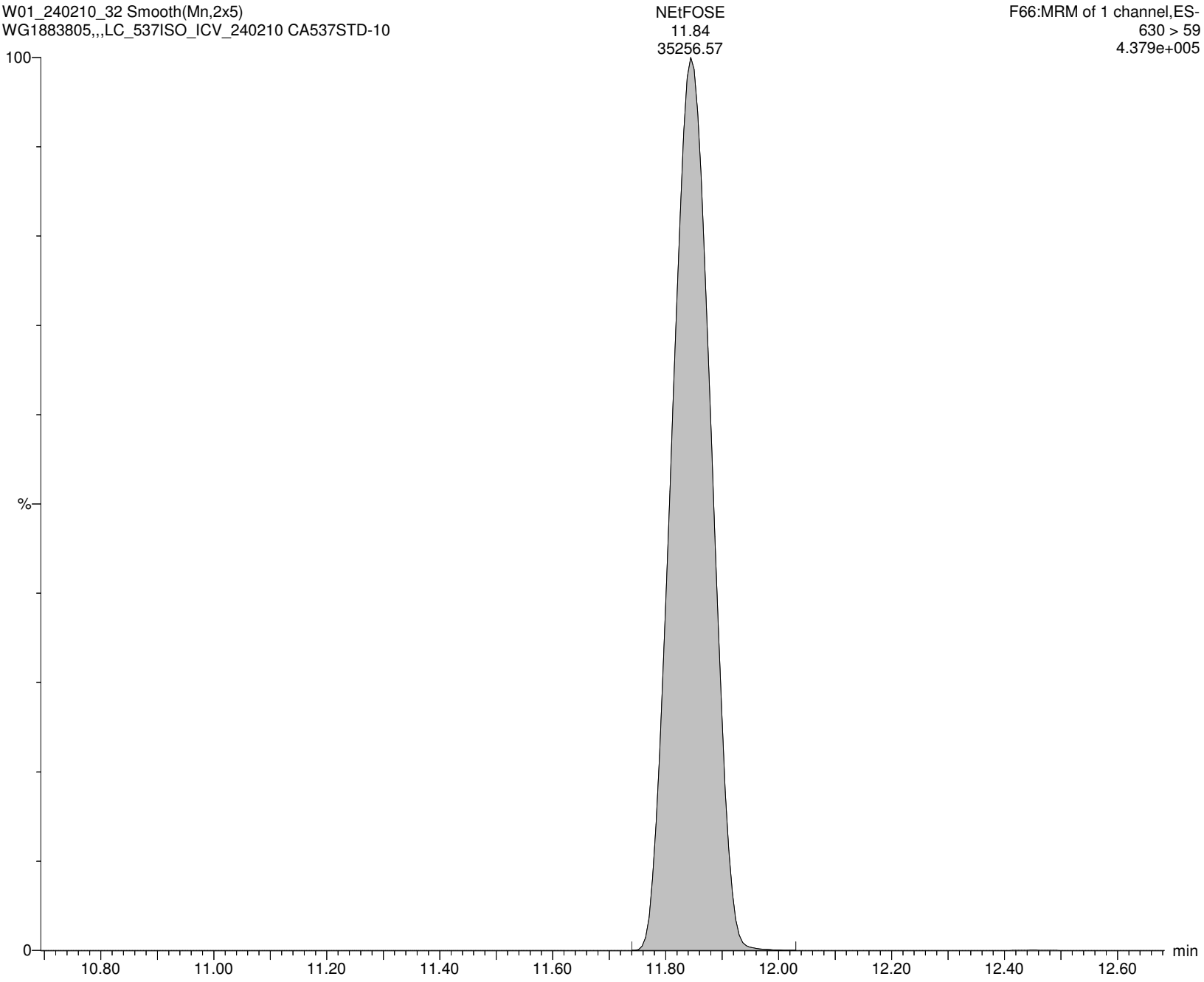

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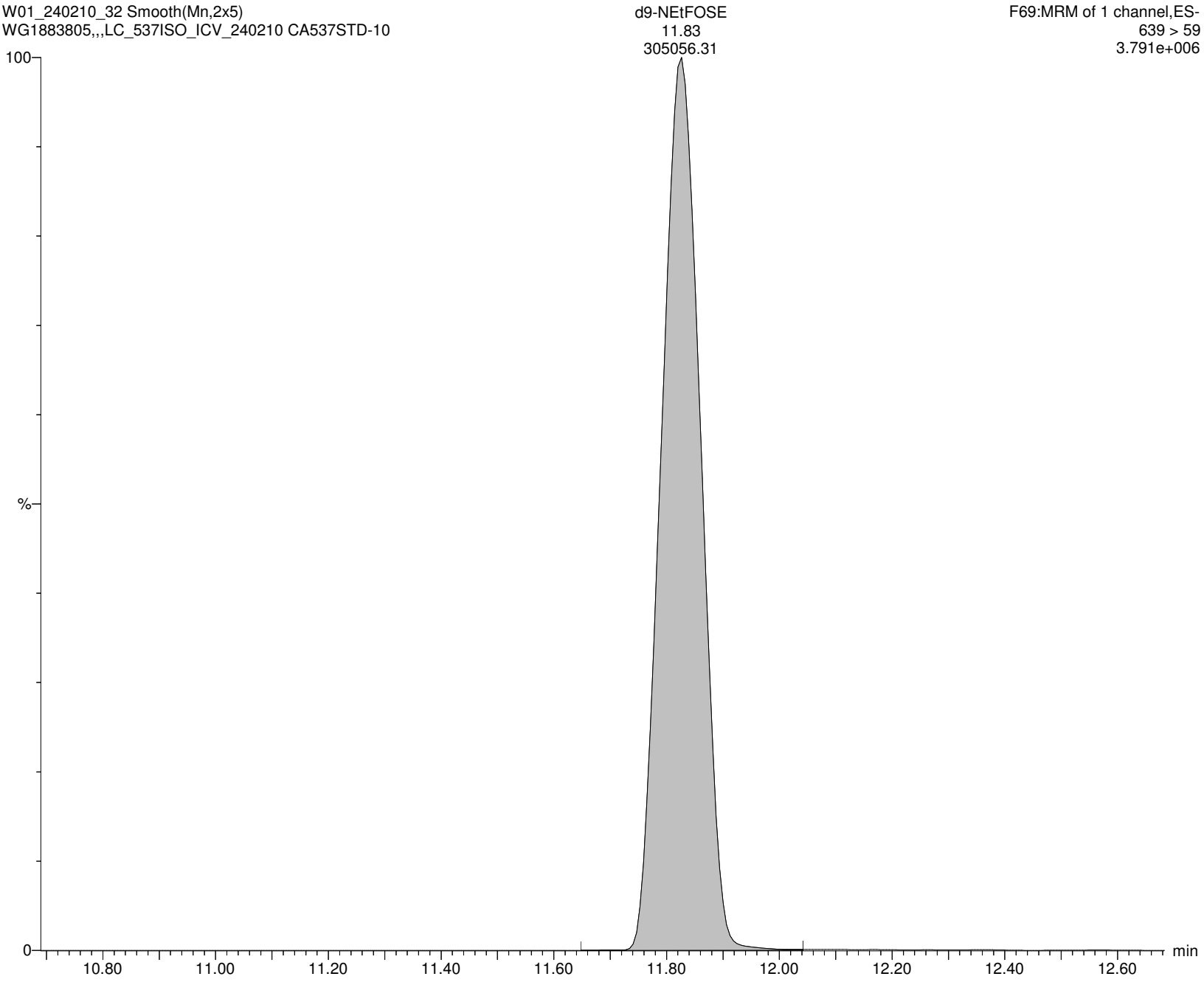

all concentration units in (ng/mL)

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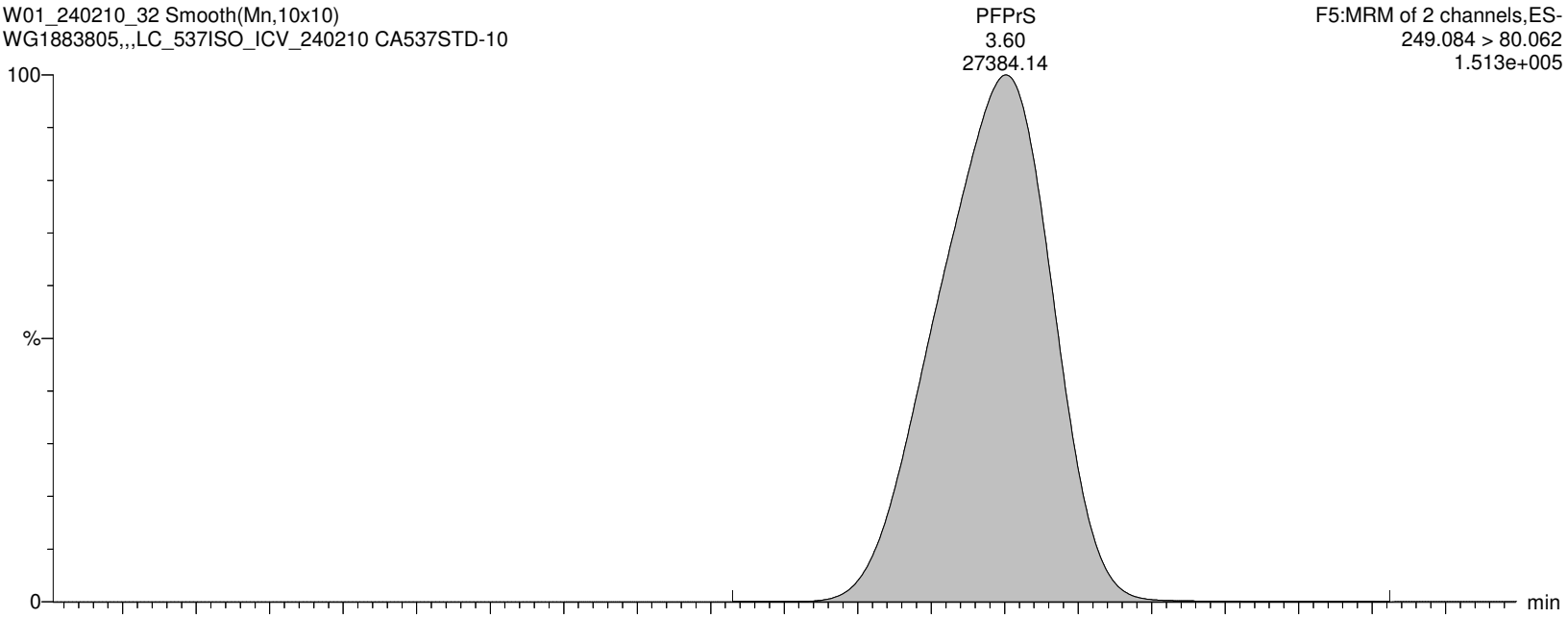

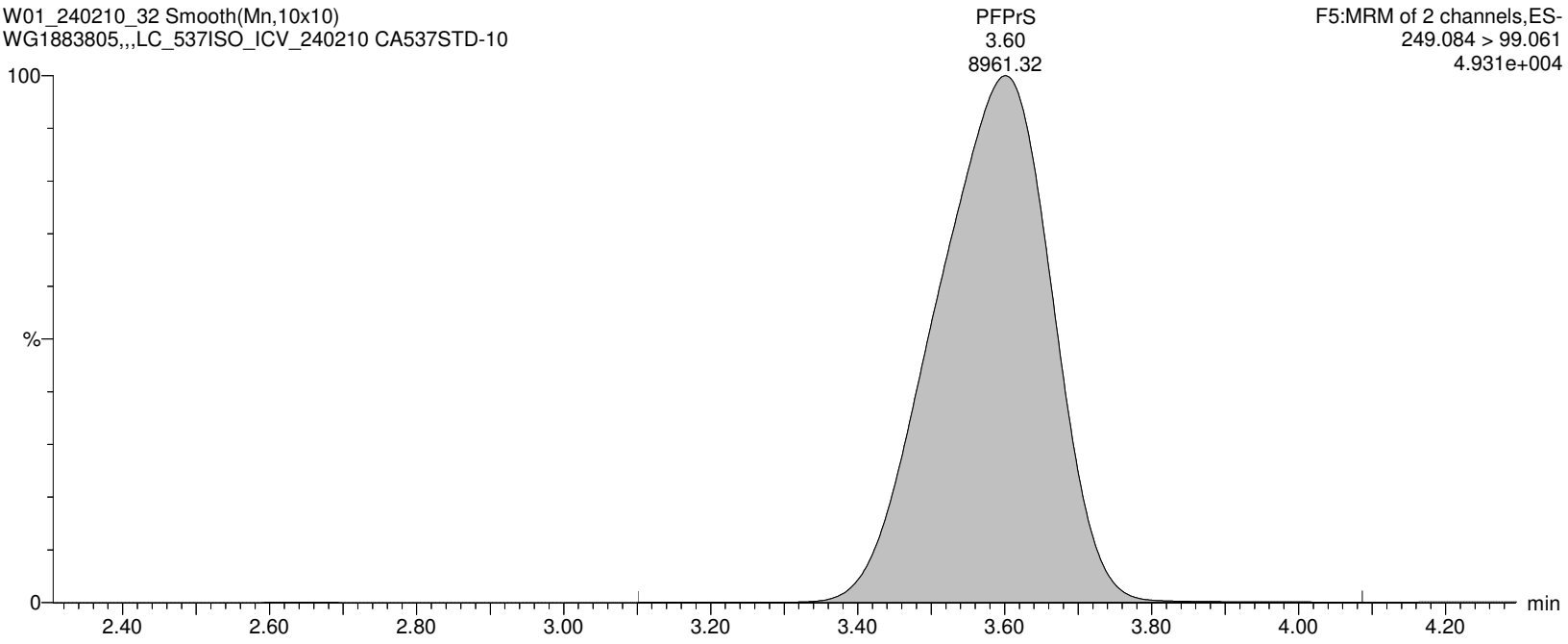

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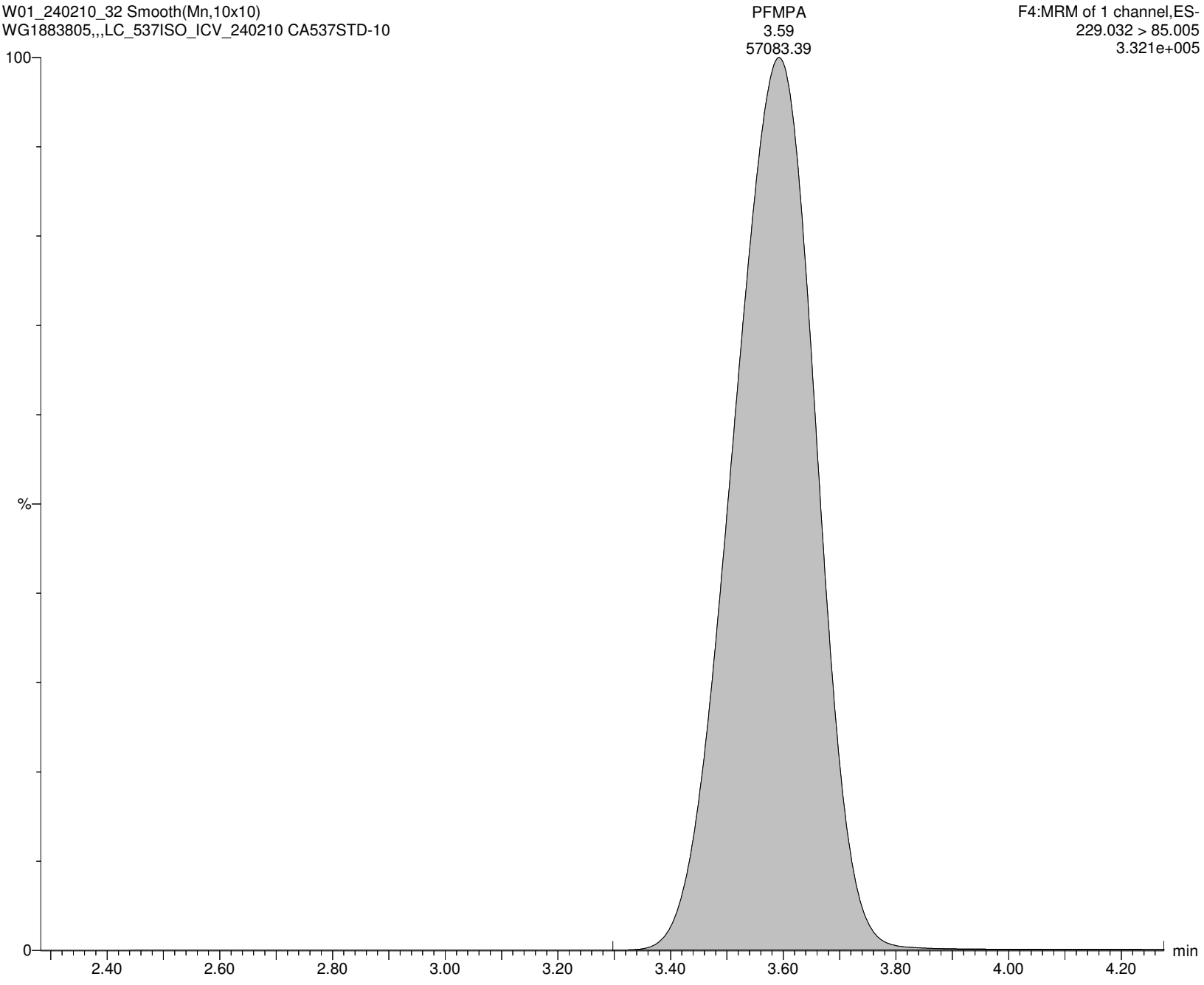
PFMPA



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Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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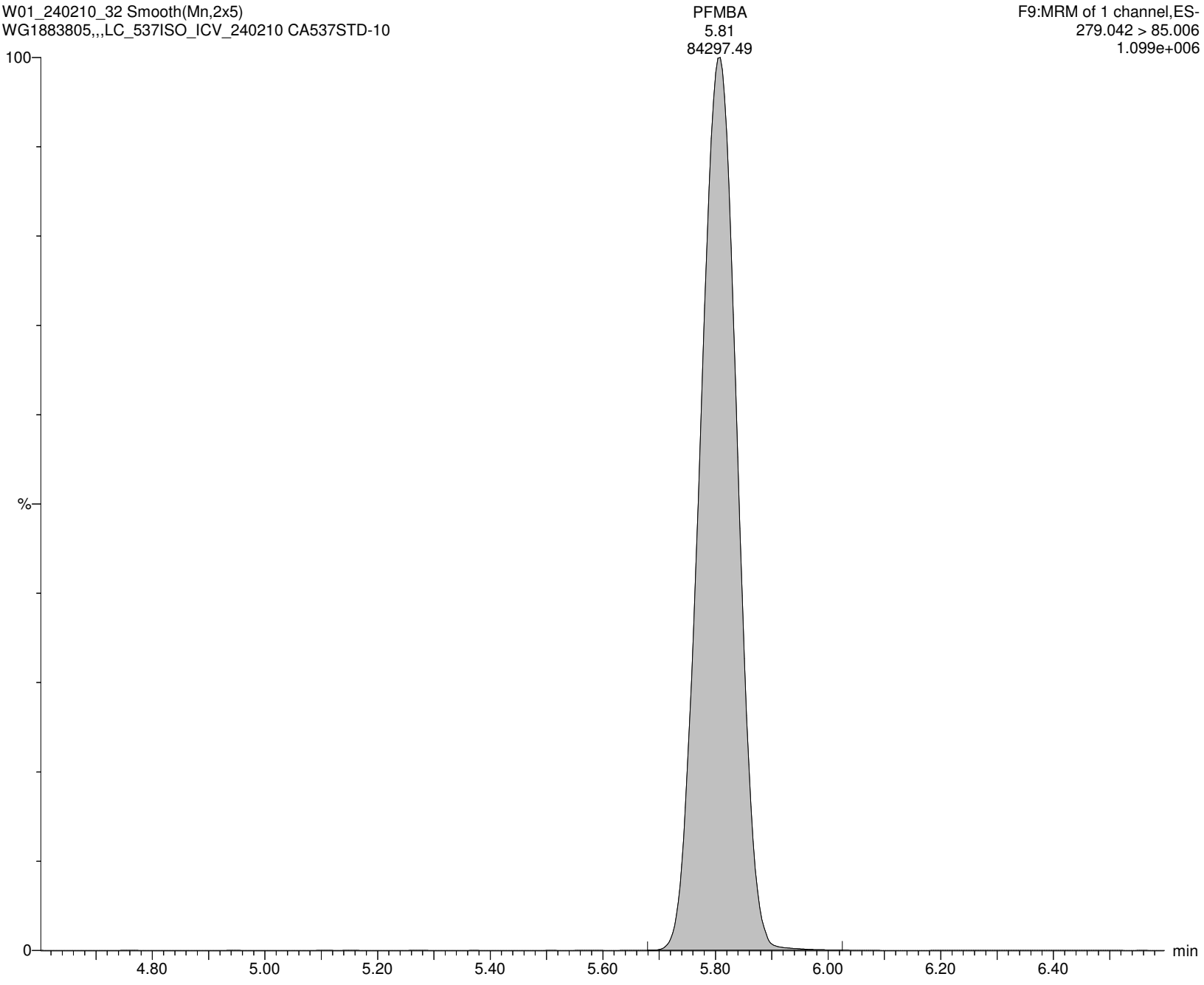

all concentration units in (ng/mL)

Alpha Analytical Inc.
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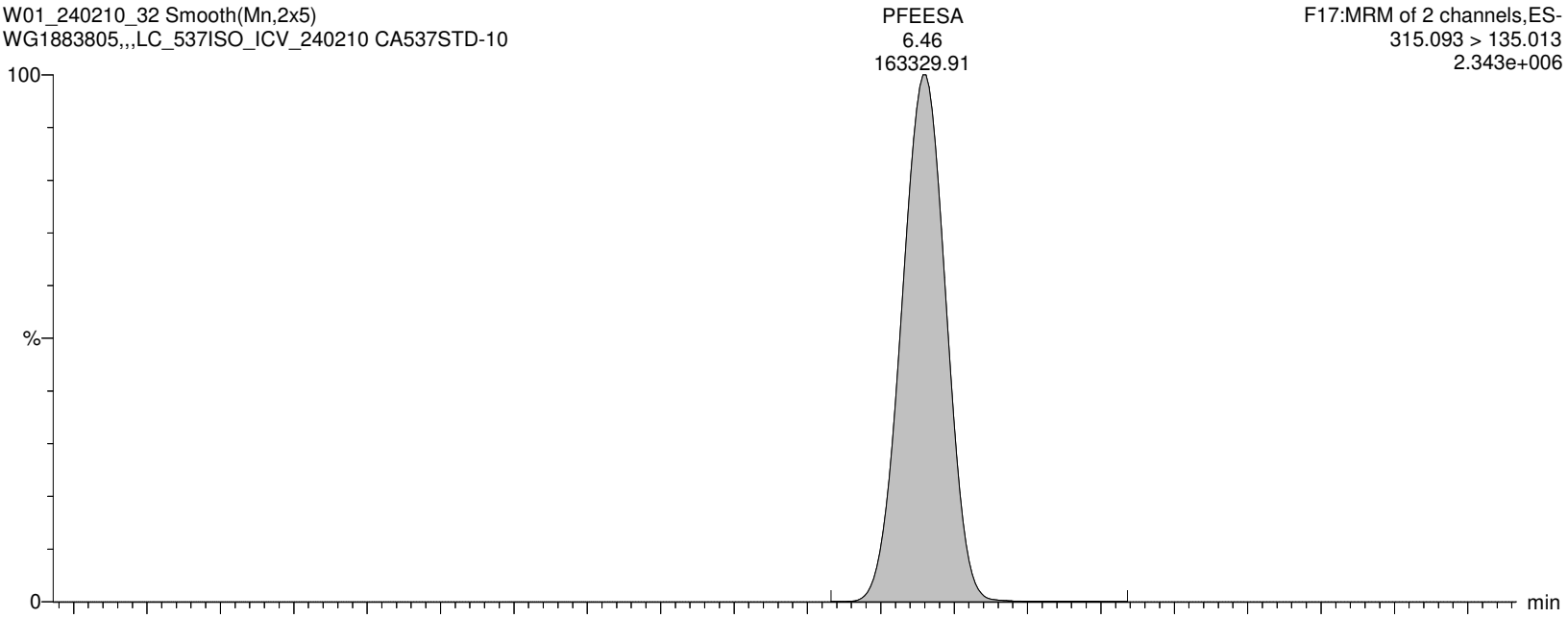
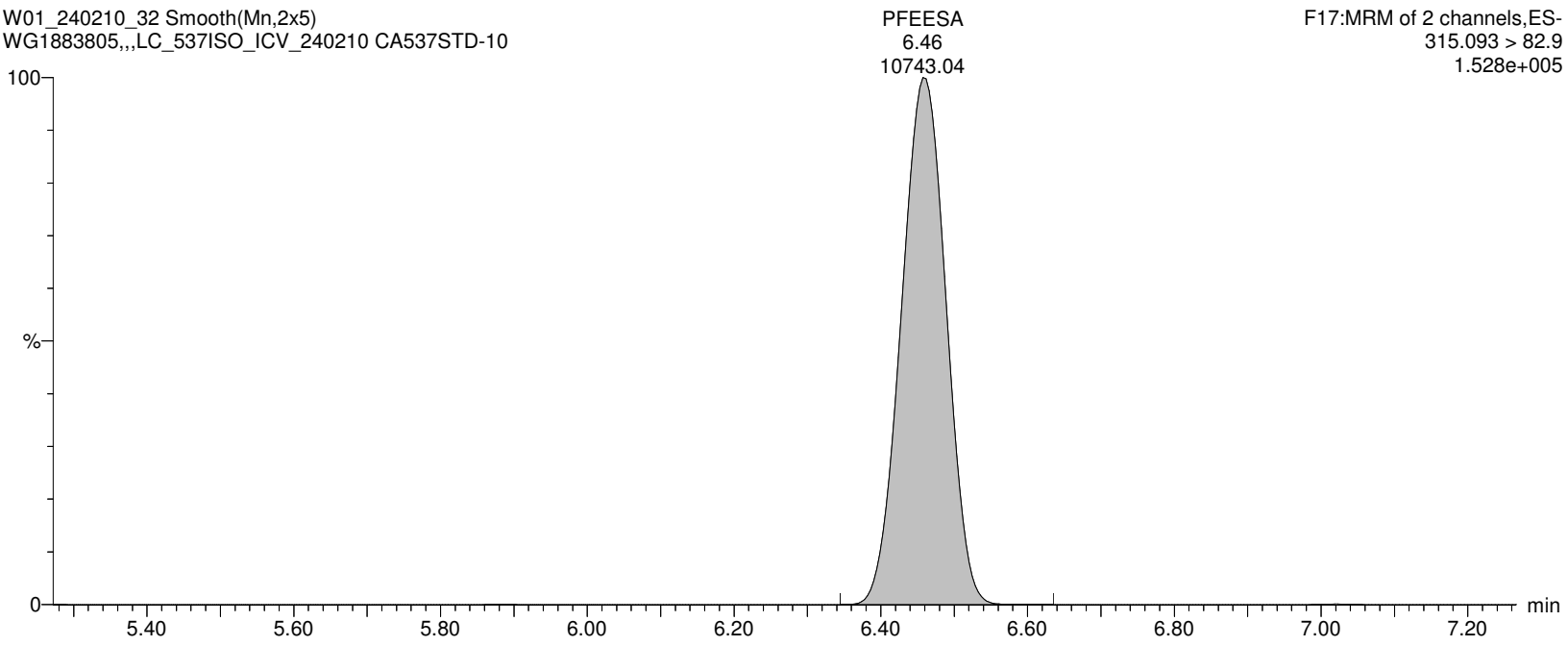
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

Name: W01_240210_32
ID: CA537STD-10
Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

PFEESA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_ICV.qld
Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
Printed: Monday, February 12, 2024 15:37:18 Eastern Standard Time

Name: W01_240210_32
ID: CA537STD-10
Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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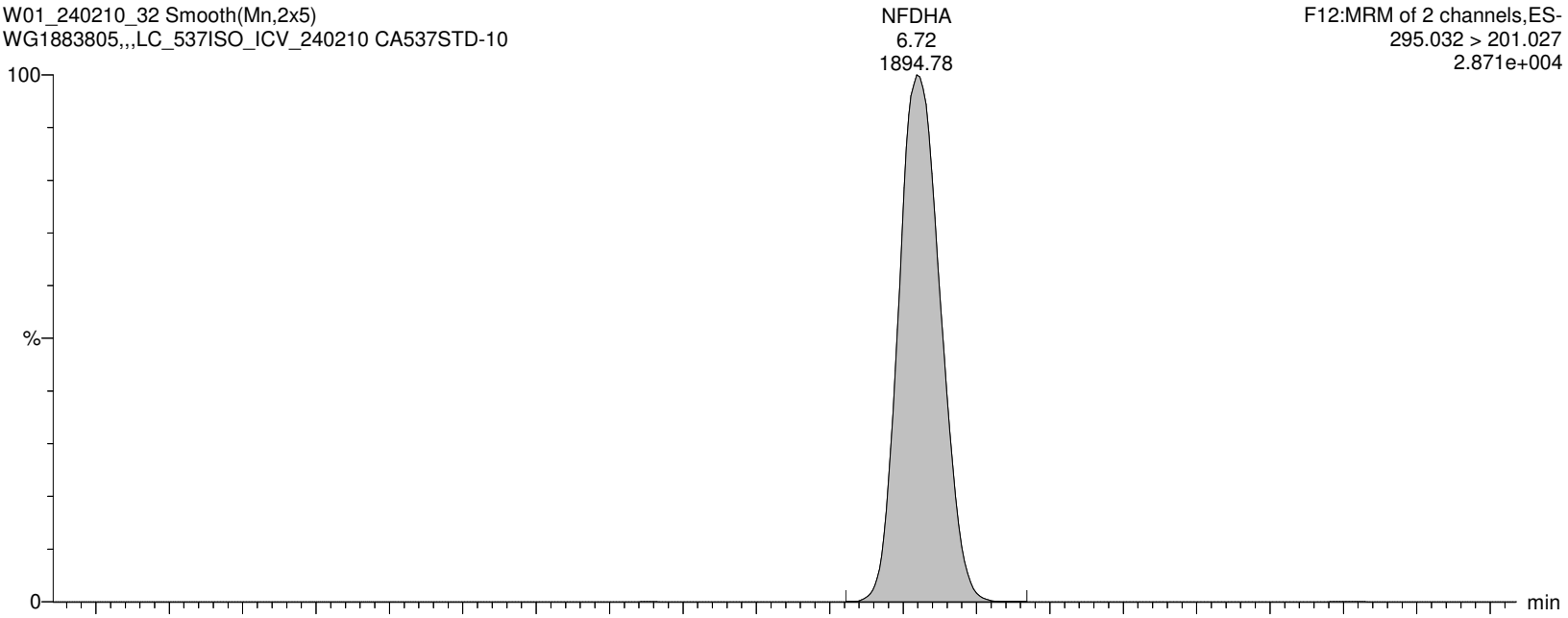
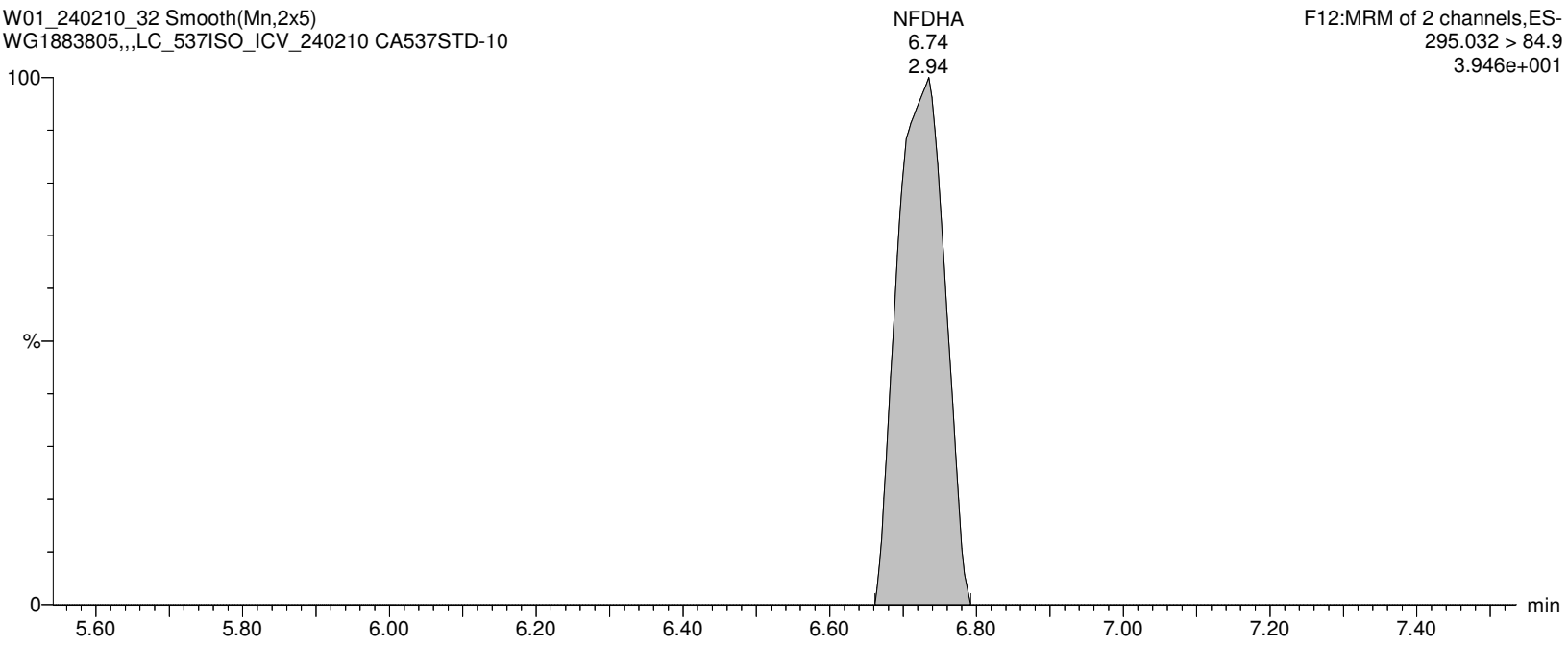
NFDHA





all concentration units in (ng/mL)

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Date: 11-Feb-2024
Time: 10:57:05
Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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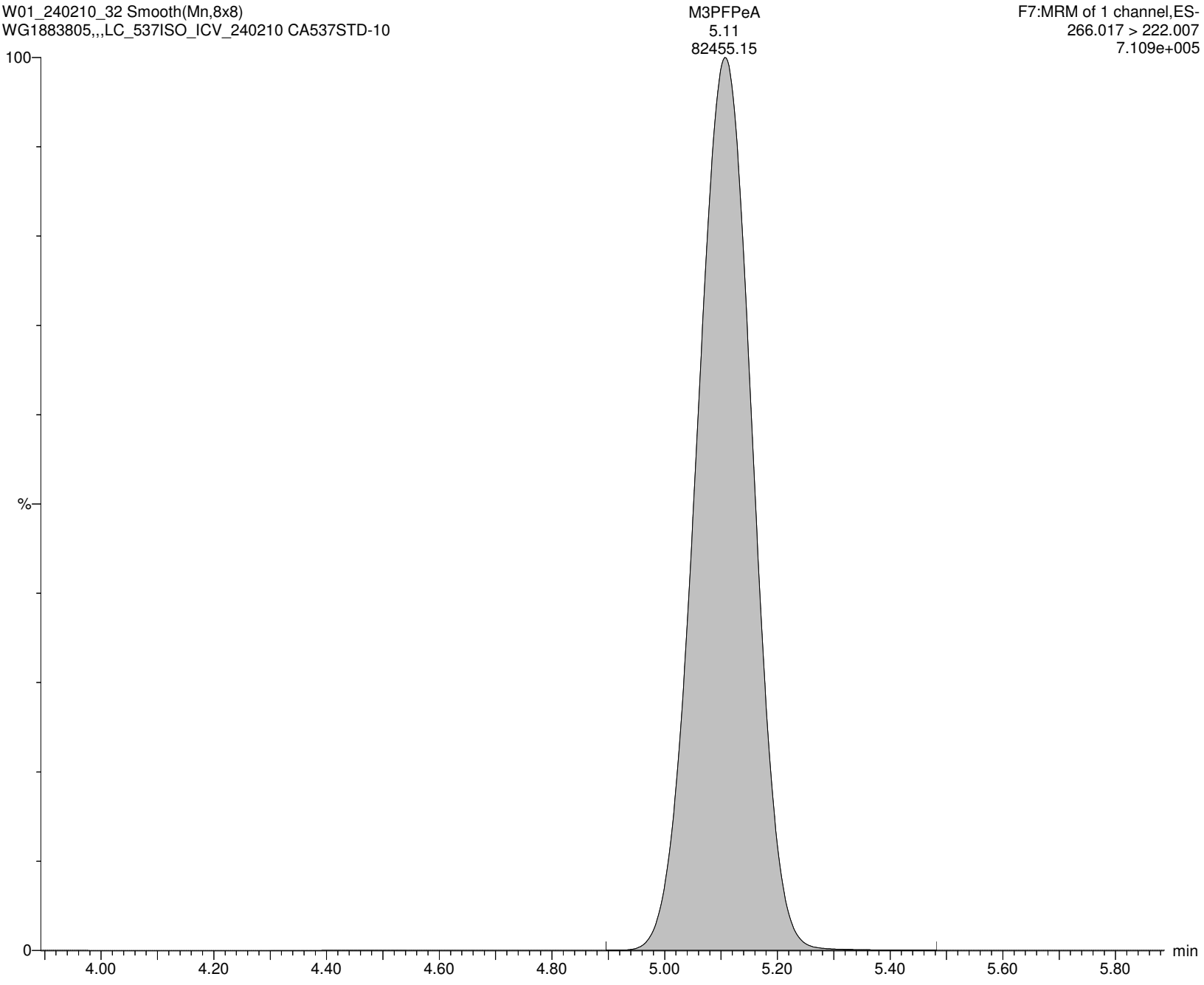

all concentration units in (ng/mL)

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Description: WG1883805,,,LC_537ISO_ICV_240210
User: LCMS01:SG
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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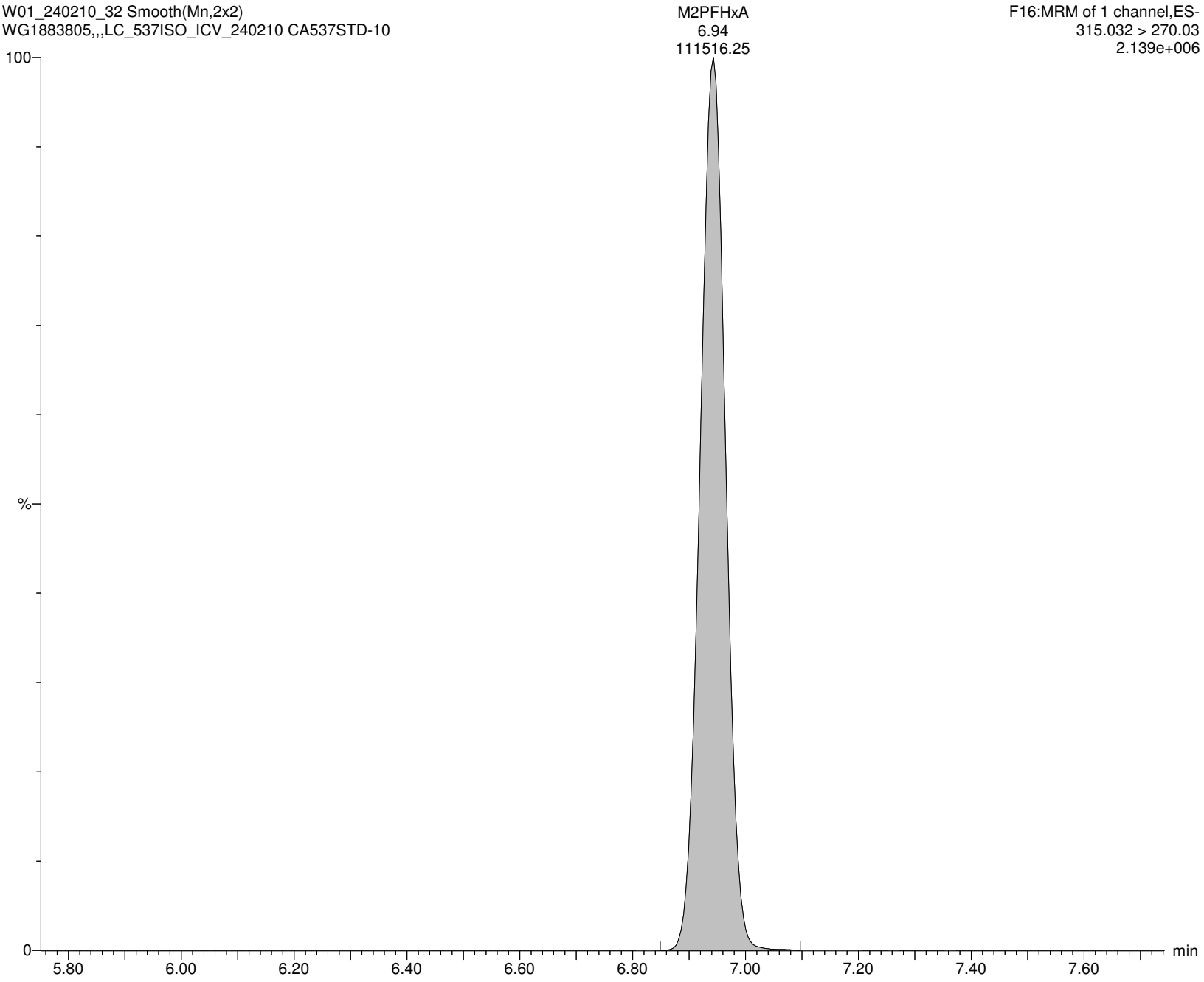

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, February 12, 2024 15:36:14 Eastern Standard Time
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Description: WG1883805,,,LC_537ISO_ICV_240210
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Instrument: XEVO-TQSmicro#QEA0276
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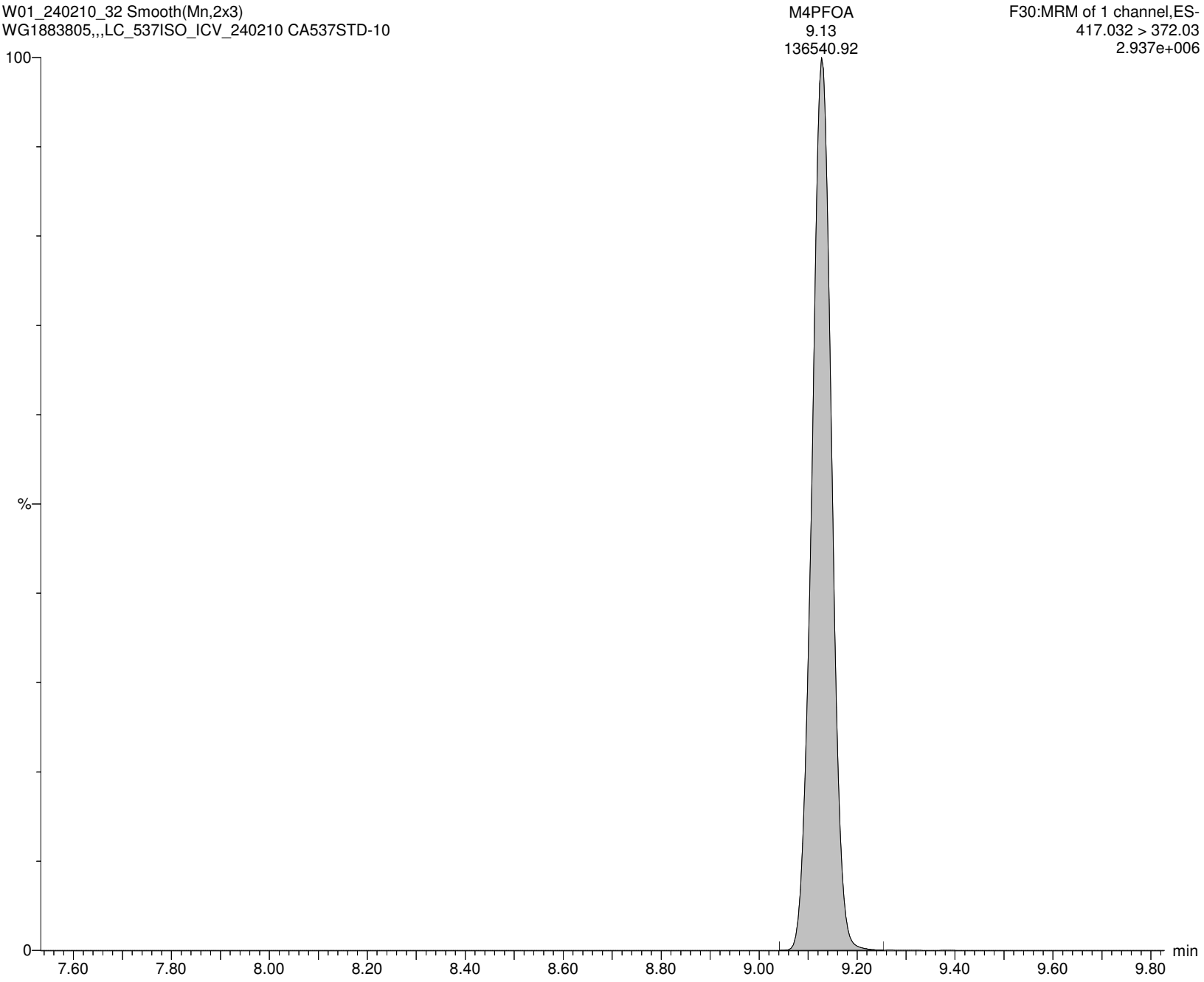

all concentration units in (ng/mL)

	Compound Name	CAS Number	Compound Type	Quantification Trace	Include Quan Trace in Response?
1	PFBA	375-22-4		213.032 > 169.022	YES
2	M3PFBA	INT STD		216.009 > 171.999	YES
3	MPFBA	INT STD		217.001 > 171.999	YES
4	PFPeA	2706-90-3		263.039 > 219.03	YES
5	M5PFPEA	INT STD		268.001 > 222.999	YES
6	PFBS	375-73-5		299.092 > 80.062	YES
7	M3PFBS	INT STD		302.069 > 80.062	YES
8	4:2FTS	757124-72-4		327.146 > 307.139	YES
9	M2-4:2FTS	INT STD		329.13 > 309.124	YES
10	PFHxA	307-24-4		313.047 > 269.037	YES
11	M5PFHxA	INT STD		318.009 > 273.007	YES
12	PFPeS	2706-91-4		349.1 > 80.062	YES
13	PFHpA	375-85-9		363.055 > 319.045	YES
14	M4PFHpA	INT STD		367.025 > 322.022	YES
15	br-PFHxS	355-46-4		399.107 > 80.062	YES
16	L-PFHxS	355-46-4		399.107 > 80.062	YES
17	PFHxS	355-46-4		399.107 > 80.062	YES
18	M3PFHxS	INT STD		402.084 > 80.062	YES
19	br-PFOA	335-67-1		413.063 > 369.053	YES
20	L-PFOA	335-67-1		413.063 > 369.053	YES
21	PFOA	335-67-1		413.063 > 369.053	YES
22	M8PFOA	INT STD		421.002 > 376.	YES
23	M2PFOA	INT STD		415.048 > 370.045	YES
24	6:2FTS	27619-97-2		427.161 > 407.155	YES
25	M2-6:2FTS	INT STD		429.146 > 409.14	YES
26	PFHpS	375-92-8		449.115 > 80.062	YES
27	PFNA	375-95-1		463.071 > 419.061	YES
28	M9PFNA	INT STD		472.002 > 427.	YES
29	br-PFOS	1763-23-1		499.123 > 80.062	YES
30	L-PFOS	1763-23-1		499.123 > 80.062	YES
31	PFOS	1763-23-1		499.123 > 80.062	YES
32	M4PFOS	INT STD		503.093 > 80.062	YES
33	M8PFOS	INT STD		507.062 > 80.062	YES
34	PFDA	335-76-2		513.078 > 469.069	YES
35	M2PFDA	INT STD		515.063 > 470.061	YES
36	M6PFDA	INT STD		519.033 > 474.03	YES
37	8:2FTS	39108-34-4		527.177 > 507.171	YES
38	M2-8:2FTS	INT STD		529.162 > 509.155	YES
39	PFNS	68259-12-1		549.131 > 80.062	YES
40	d3-NMeFOSAA	INT STD		573.22 > 419.061	YES
41	br-NMeFOSAA	2355-31-9		570.202 > 419.061	YES
42	L-NMeFOSAA	2355-31-9		570.202 > 419.061	YES
43	NMeFOSAA	2355-31-9		570.202 > 419.061	YES
44	PFUnA	2058-94-8		563.086 > 519.076	YES
45	M7-PFUDA	INT STD		570.033 > 525.031	YES
46	PFDS	335-77-3		598.926 > 80.062	YES
47	FOSA	754-91-6		498.146 > 78.07	YES
48	M8FOSA	INT STD		506.077 > 78.07	YES
49	d5-NEtFOSAA	INT STD		589.259 > 419.061	YES
50	br-NEtFOSAA	2991-50-6		584.229 > 419.061	YES
51	L-NEtFOSAA	2991-50-6		584.229 > 419.061	YES
52	NEtFOSAA	2991-50-6		584.229 > 419.061	YES
53	PFDoA	307-55-1		613.094 > 569.084	YES
54	MPFDOA	INT STD		615.079 > 570.077	YES

	Calculate Ion Ratio Tolerance As	Target Ion Ratio Method	1:Ion Trace	1:Ion Ratio	1:Ion Ratio Win (%) ±
1	Ratio	Quan/Target		0.0000	50
2	Ratio	Quan/Target		0.0000	50
3	Ratio	Quan/Target		0.0000	50
4	Ratio	Quan/Target		0.0000	0
5	Ratio	Quan/Target		0.0000	50
6	Ratio	Quan/Target	299.092 > 99.061	1.8070	50
7	Ratio	Quan/Target		0.0000	50
8	Ratio	Quan/Target	327.146 > 81.07	2.1140	50
9	Ratio	Quan/Target		0.0000	50
10	Ratio	Quan/Target	313.047 > 119.18	14.1410	50
11	Ratio	Quan/Target		0.0000	50
12	Ratio	Quan/Target	349.1 > 99.061	1.5230	50
13	Ratio	Quan/Target	363.055 > 169.022	4.4490	50
14	Ratio	Quan/Target		0.0000	50
15	Ratio	Quan/Target	399.107 > 99.061	1.9170	50
16	Ratio	Quan/Target	399.107 > 99.061	1.4200	50
17	Ratio	Quan/Target	399.107 > 99.061	0.0000	50
18	Ratio	Quan/Target		0.0000	50
19	Ratio	Quan/Target	413.063 > 219.03	0.0000	50
20	Ratio	Quan/Target	413.063 > 219.03	11.5230	50
21	Ratio	Quan/Target	413.063 > 219.03	0.0000	50
22	Ratio	Quan/Target		0.0000	50
23	Ratio	Quan/Target		0.0000	50
24	Ratio	Quan/Target	427.161 > 81.07	3.5020	50
25	Ratio	Quan/Target		0.0000	50
26	Ratio	Quan/Target	449.115 > 99.061	1.5600	50
27	Ratio	Quan/Target	463.071 > 219.03	6.7860	50
28	Ratio	Quan/Target		0.0000	50
29	Ratio	Quan/Target	499.123 > 99.061	3.2640	50
30	Ratio	Quan/Target	499.123 > 99.061	1.5700	50
31	Ratio	Quan/Target	499.123 > 99.061	0.0000	50
32	Ratio	Quan/Target		0.0000	50
33	Ratio	Quan/Target		0.0000	50
34	Ratio	Quan/Target	513.078 > 219.03	5.0700	50
35	Ratio	Quan/Target		0.0000	50
36	Ratio	Quan/Target		0.0000	50
37	Ratio	Quan/Target	527.177 > 81.07	2.9280	50
38	Ratio	Quan/Target		0.0000	50
39	Ratio	Quan/Target	549.131 > 99.061	2.0430	50
40	Ratio	Quan/Target		0.0000	50
41	Ratio	Quan/Target	570.202 > 512.165	1.0740	50
42	Ratio	Quan/Target	570.202 > 512.165	2.3620	50
43	Ratio	Quan/Target	570.202 > 512.165	0.0000	50
44	Ratio	Quan/Target	563.086 > 269.0...	6.5480	50
45	Ratio	Quan/Target		0.0000	50
46	Ratio	Quan/Target	598.926 > 99.061	1.7740	50
47	Ratio	Quan/Target	498.146 > 169.022	41.0570	50
48	Ratio	Quan/Target		0.0000	50
49	Ratio	Quan/Target		0.0000	50
50	Ratio	Quan/Target	584.229 > 526.192	0.8840	50
51	Ratio	Quan/Target	584.229 > 526.192	1.4120	50
52	Ratio	Quan/Target	584.229 > 526.192	0.0000	50
53	Ratio	Quan/Target	613.094 > 319.0...	7.2210	50
54	Ratio	Quan/Target		0.0000	50

	Compound Name	CAS Number	Compound Type	Quantification Trace	Include Quan Trace in Response?
55	PFTrDA	72629-94-8		663.102 > 619.092	YES
56	PFTA	376-06-7		713.11 > 669.1	YES
57	M2PFTEDA	INT STD		715.094 > 670.092	YES
58	M3HFPO-DA	INT STD		287.02 > 169.022	YES
59	HFPO-DA	13252-13-6		285.035 > 169.022	YES
60	ADONA	958445-44-8		377.06 > 251.028	YES
61	PFHxDA			813.122 > 769.116	YES
62	PFODA			913.411 > 869.131	YES
63	M2PFHxDA			815.102 > 770.108	YES
64	PFDoS			699.154 > 80.062	YES
65	M2D4-10:2FTS			633.201 > 612.189	YES
66	10:2FTS			627.192 > 607.186	YES
67	9CL-PF3ONS			531.096 > 351.07	YES
68	11CL-PFOUdS			631.096 > 451.076	YES
69	NMeFOSA			512.163 > 169.022	YES
70	d3-NMeFOSA			515.183 > 169.022	YES
71	NEtFOSA			526.192 > 169.022	YES
72	d5-NEtFOSA			531.222 > 169.022	YES
73	NMeFOSE			616 > 59	YES
74	d7-NMeFOSE			623 > 59	YES
75	NEtFOSE			630 > 59	YES
76	d9-NEtFOSE			639 > 59	YES
77	PFPrS			249.084 > 80.062	YES
78	PFMPA			229.032 > 85.005	YES
79	PFMBA			279.042 > 85.006	YES
80	PFEESA			315.093 > 135.013	YES
81	NFDHA			295.032 > 201.027	YES
82	M3PFPeA			266.017 > 222.007	YES
83	M2PFHxA			315.032 > 270.03	YES
84	M4PFOA			417.032 > 372.03	YES
85	M2D4-6:2FTS			433.17 > 412.158	YES
86	M2D4-4:2FTS			333.155 > 312.142	YES

	Calculate Ion Ratio Tolerance As	Target Ion Ratio Method	1:Ion Trace	1:Ion Ratio	1:Ion Ratio Win (%) ±
55	Ratio	Quan/Target	663.102 > 319.045	9.2980	50
56	Ratio	Quan/Target	713.11 > 369.053	15.4500	50
57	Ratio	Quan/Target		0.0000	50
58	Ratio	Quan/Target		0.0000	50
59	Ratio	Quan/Target	329.045 > 285.035	30.3740	50
60	Ratio	Quan/Target	377.06 > 84.8	86.9880	50
61	Ratio	Quan/Target	813.122 > 369.053	53.4950	50
62	Ratio	Quan/Target	913.411 > 369.053	99.5380	50
63	Ratio	Quan/Target		0.0000	50
64	Ratio	Quan/Target	699.154 > 99.061	1.5300	50
65	Ratio	Quan/Target		0.0000	50
66	Ratio	Quan/Target	627.192 > 81.07	2.9930	50
67	Ratio	Quan/Target	532.8 > 353	2.3550	50
68	Ratio	Quan/Target	632.9 > 452.9	2.9990	50
69	Ratio	Quan/Target	512.163 > 219.03	1.5710	50
70	Ratio	Quan/Target		0.0000	50
71	Ratio	Quan/Target	526.192 > 119.03	8.6950	50
72	Ratio	Quan/Target		0.0000	50
73	Ratio	Quan/Target		0.0000	50
74	Ratio	Quan/Target		0.0000	50
75	Ratio	Quan/Target		0.0000	50
76	Ratio	Quan/Target		0.0000	50
77	Ratio	Quan/Target	249.084 > 99.061	3.0670	50
78	Ratio	Quan/Target		0.0000	50
79	Ratio	Quan/Target		0.0000	50
80	Ratio	Quan/Target	315.093 > 82.9	15.9480	50
81	Ratio	Quan/Target	295.032 > 84.9	119.4930	50
82	Ratio	Quan/Target		0.0000	50
83	Ratio	Quan/Target		0.0000	50
84	Ratio	Quan/Target		0.0000	50
85	Ratio	Quan/Target		0.0000	50
86	Ratio	Quan/Target		0.0000	50

537 PFC ISO ICAL

Standard Description: **537 ICAL STOCK** Standard Stock Dilution 2-20 ug/mL

Standard Laboratory ID Number: **LC_537ISO_ICALSTOCK_240110**

Assigned Lab ID	Chemical Name	Stock Concentration(ug/mL)	Vendor/Part Number/location	Stock Volume (uL)	Final Volume (mL)	Solvent	Standard Concentration (ng/mL)
LCMS231013BX/BY	30 compound PAR	1.0	**Wellington/PFAC30PAR/537G**	2000	4.0	MeOH	500
537_240110_SS	Secondary Stock	2.0	**Semi05**	1000.0	4.0	MeOH	500
LCMS231110G	533 Native add ons	2.0	**Wellington/PFAC-MXG/537G**	1000.0	4.0	MeOH	500
Solution Prepared By:	AC		Date Prepared:	January 10, 2024		Expiration Date:	July 10, 2024
Solvent Lot	N/A		Refrigerator / Freezer No:	537G Fridge			

537 ISO ICV

Standard Description: **537 ISO** **ICV**

Standard Laboratory ID Number: **537ISO_ICV_240210**

Assigned Lab ID	Chemical Name	Stock Concentration(ug/mL)	Vendor/Part Number/location	Stock Volume (uL)	Final Volume (mL)	Solvent	Standard Concentration (ng/mL)
LCMS220714E	24 Compound Mix	2.0	**Wellington PFAC24PAR**	250	50.0	80:20 MeOH:DI	10.000
LCMS220823W	PFDoS	48.4	Wellington L-PFDoS	10	50.0	80:20 MeOH:DI	9.680
LCMS220321AS	HFPO-DA	50.0	Wellington HFPO-DA	100	50.0	80:20 MeOH:DI	100.000
LCMS200310A	11ClPF3OUdS	47.1	Wellington 11Cl-PF3OUdS	10	50.0	80:20 MeOH:DI	9.420
LCMS200715L	9Cl-PF3ONS	46.6	Wellington 9Cl-PF3ONS	10	50.0	80:20 MeOH:DI	9.320
LCMS230721AX	NMeFOSA	50.0	Wellington NMeFOSA	10	50.0	80:20 MeOH:DI	10.000
LCMS230711W	NEtFOSA	50.0	Wellington NEtFOSA	10	50.0	80:20 MeOH:DI	10.000
LCMS2311100	NMEeFOSe	50.0	Wellington NMeFOSE	10	50.0	80:20 MeOH:DI	10.000
LCMS22051213	NEtFOSE	50.0	Wellington NEtFOSE	10	50.0	80:20 MeOH:DI	10.000
LCMS200310G	ADONA	50.0	Wellimgton Nadona	10	50.0	80:20 MeOH:DI	10.000
LCMS201230N	PFHxDA	50.0	Wellington PFHxDA	10	50.0	80:20 MeOH:DI	10.000
LCMS2210113J	PFODA	50.0	Wellington PFODA	10	50.0	80:20 MeOH:DI	10.000
LCMS240207C	10:2FTS	48.2	Wellington 10:2 FTS	10	50.0	80:20 MeOH:DI	9.640
LCMS2108607P	PFEESA	50.0	Wellington PFEESA	10	50.0	MeOH	10.000
LCMS210607M	PFMPA	50.0	Wellington PFOPeA	10	50.0	MeOH	10.000
LCMS210607N	PFMBA	50.0	Wellington PF5OHxA	10	50.0	MeOH	10.000
LCMS210607O	NFDHA	50.0	Wellington 3,6-OPFHpA	10	50.0	MeOH	10.000
LCMS210817A	PFPrS	50.0	Wellington L-PFPrS	10	50.0	MeOH	10.000
Solution Prepared By:	SG		Date Prepared:	February 10, 2024		Expiration Date:	February 9, 2025
Solvent Lot	LCMS 80 MeOH EB038-US : H2O : Lab Type II RO EC020124H		Refrigerator / Freezer No:	SEMI05 Fridge			

Analyst SAMUEL GELETU Date: 2/10/2024

Secondary Review: _____ Date: _____

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
Last Altered: Sunday, February 11, 2024 12:43:07 Eastern Standard Time
Printed: Sunday, February 11, 2024 12:43:21 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\MethDB\537ISO_Q_240210_RT.mdb 11 Feb 2024 12:21:23
Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 11 Feb 2024 11:29:30

ID: TECHSTD
Name: W01_240210_34
Date: 11-Feb-2024
Time: 11:32:51
Description: WG1883805,537_TECHSTD230404
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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MS Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	M3PFBA	INT STD	2.25	216.009 > 171.999	77334		10.084		na	100.8
2	br-PFOA	335-67-1	8.92	413.063 > 369.053	100717	M5,M7	6.256	1.87	NO	
3	L-PFOA	335-67-1	9.14	413.063 > 369.053	665564		41.340	11.64	NO	
4	PFOA	335-67-1		413.063 > 369.053	766281		47.595		na	
5	M8PFOA	INT STD	9.14	421.002 > 376.	156595		10.360		na	103.6
6	M2PFOA	INT STD	9.14	415.048 > 370.045	149341		10.060		na	100.6
7	M4PFOS	INT STD	9.96	503.093 > 80.062	38465		10.386		na	108.2
8	M2PFDA	INT STD	10.57	515.063 > 470.061	149974		11.178		na	111.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
Last Altered: Sunday, February 11, 2024 12:43:07 Eastern Standard Time
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Calibration: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\CurveDB\240211_ISO_ICAL.cdb 11 Feb 2024 11:29:30

Name: W01_240210_34
ID: TECHSTD
Date: 11-Feb-2024
Time: 11:32:51
Description: WG1883805,537_TECHSTD230404
User: LCMS01:SG
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
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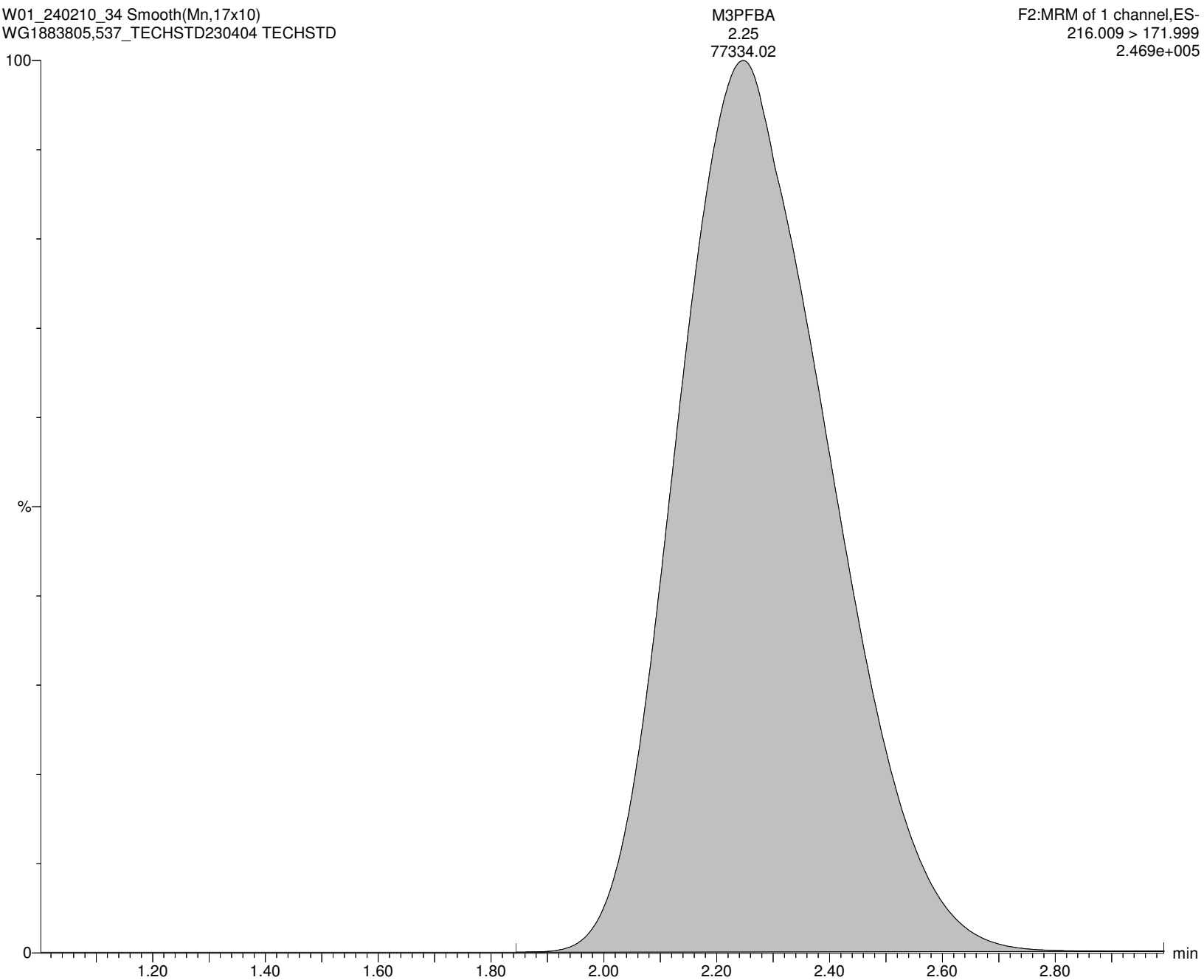
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
Last Altered: Sunday, February 11, 2024 12:43:07 Eastern Standard Time
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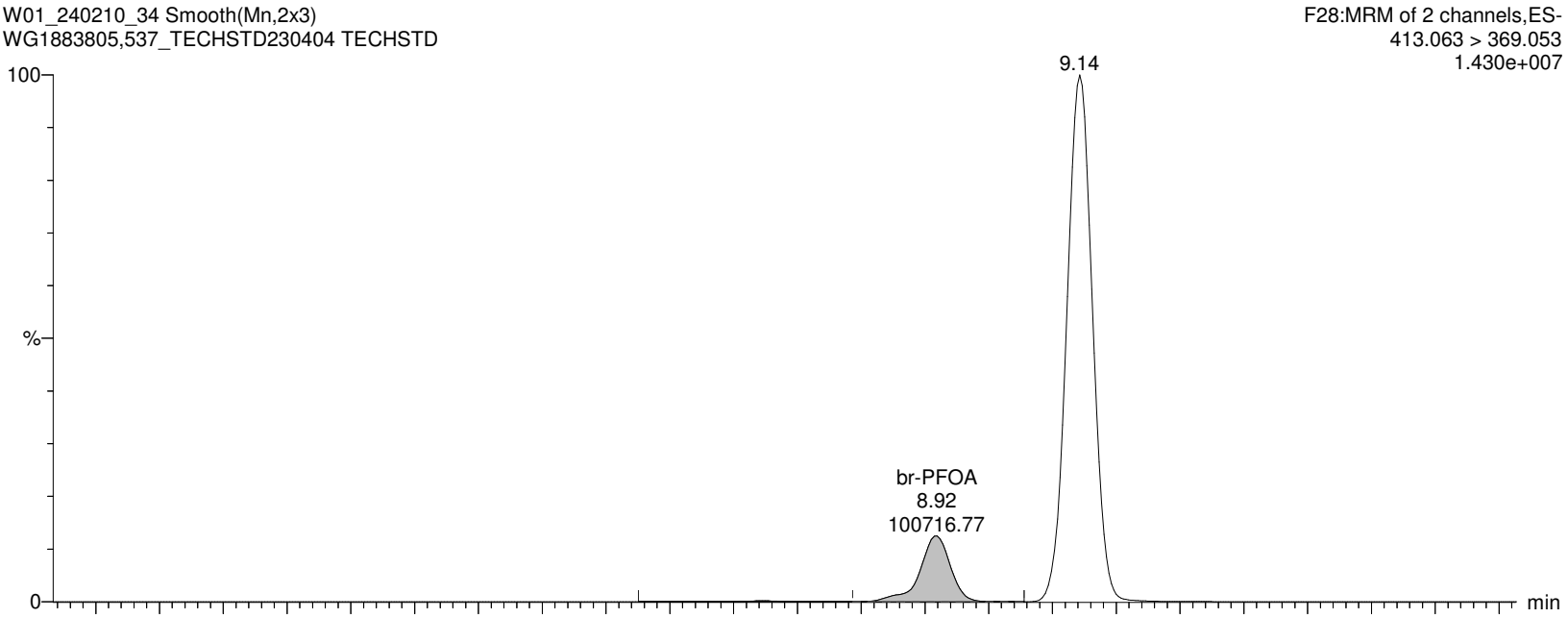
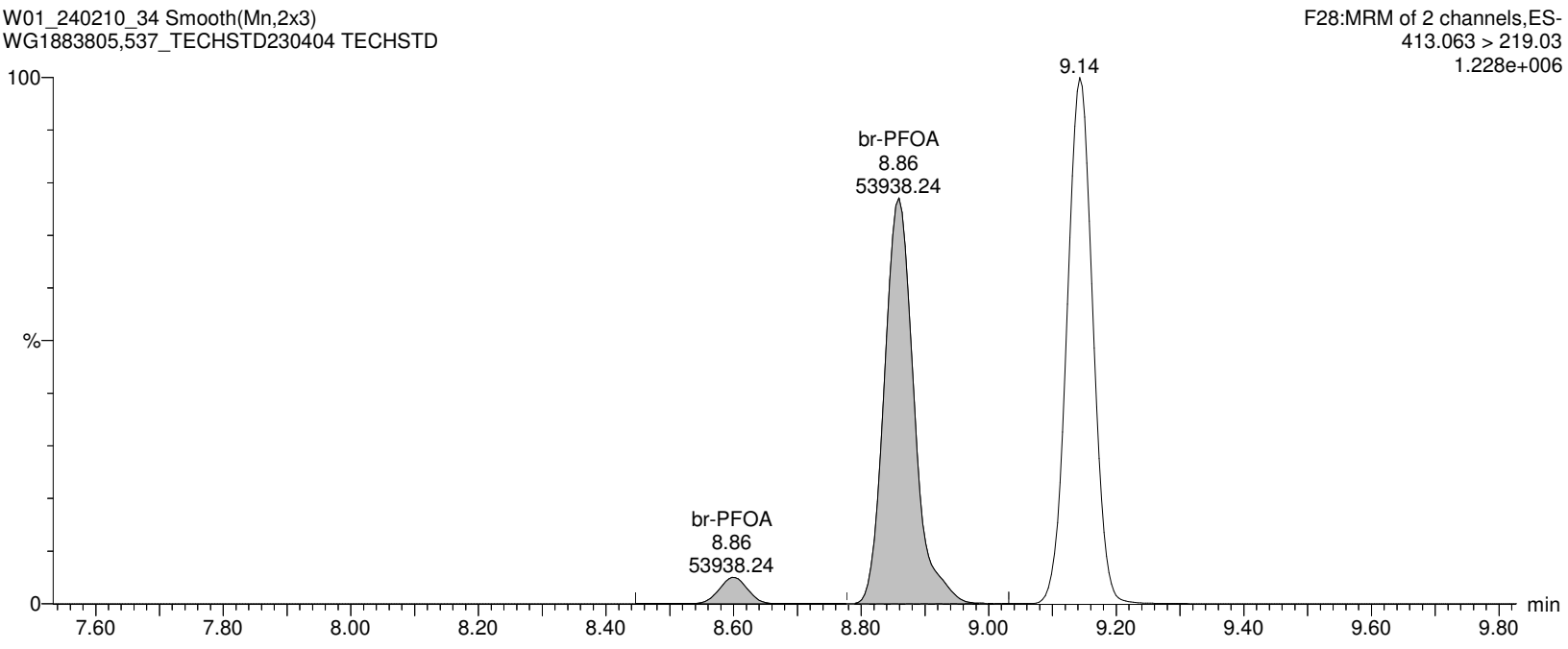
br-PFOA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
Last Altered: Sunday, February 11, 2024 12:43:07 Eastern Standard Time
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Name: W01_240210_34
ID: TECHSTD
Date: 11-Feb-2024
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Description: WG1883805,537_TECHSTD230404
User: LCMS01:SG
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\ACQUDB\240208X_TUNE.IPR
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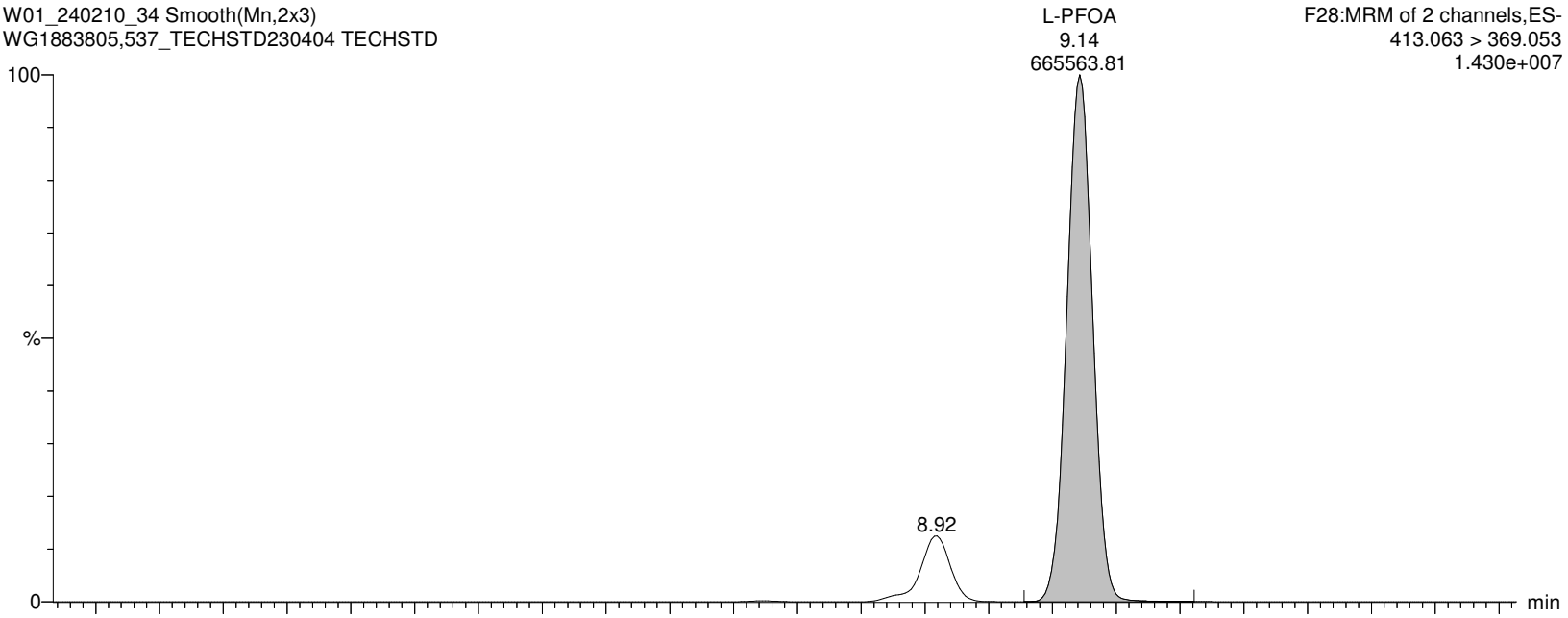
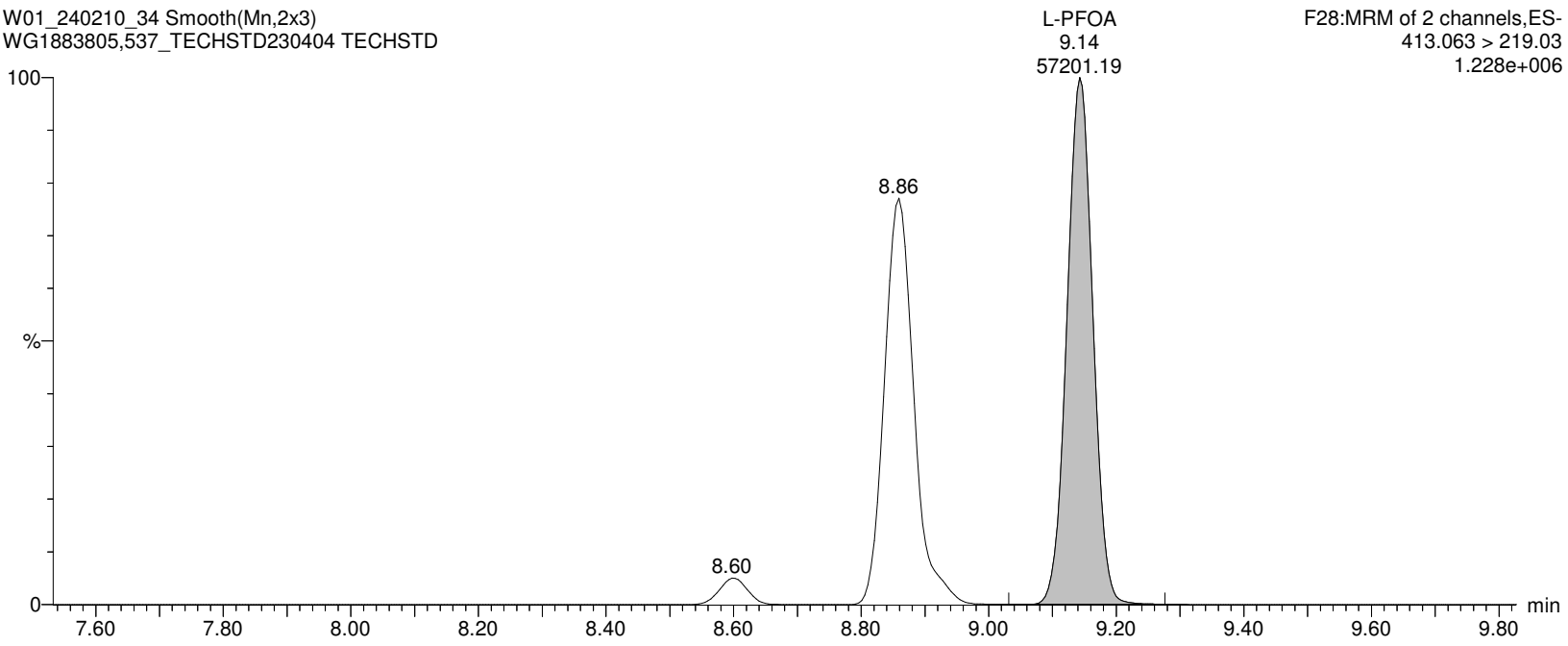
L-PFOA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
Last Altered: Sunday, February 11, 2024 12:43:07 Eastern Standard Time
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User: LCMS01:SG
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Instrument: XEVO-TQSmicro#QEA0276
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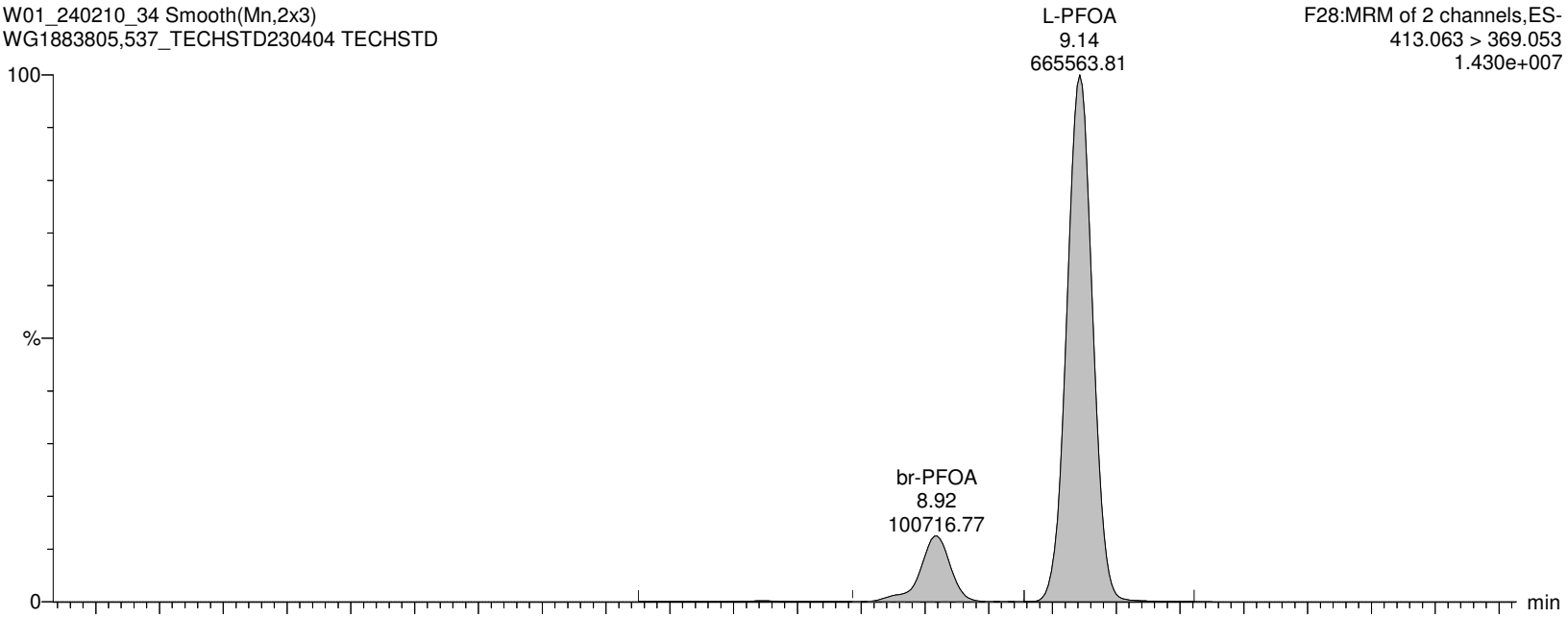
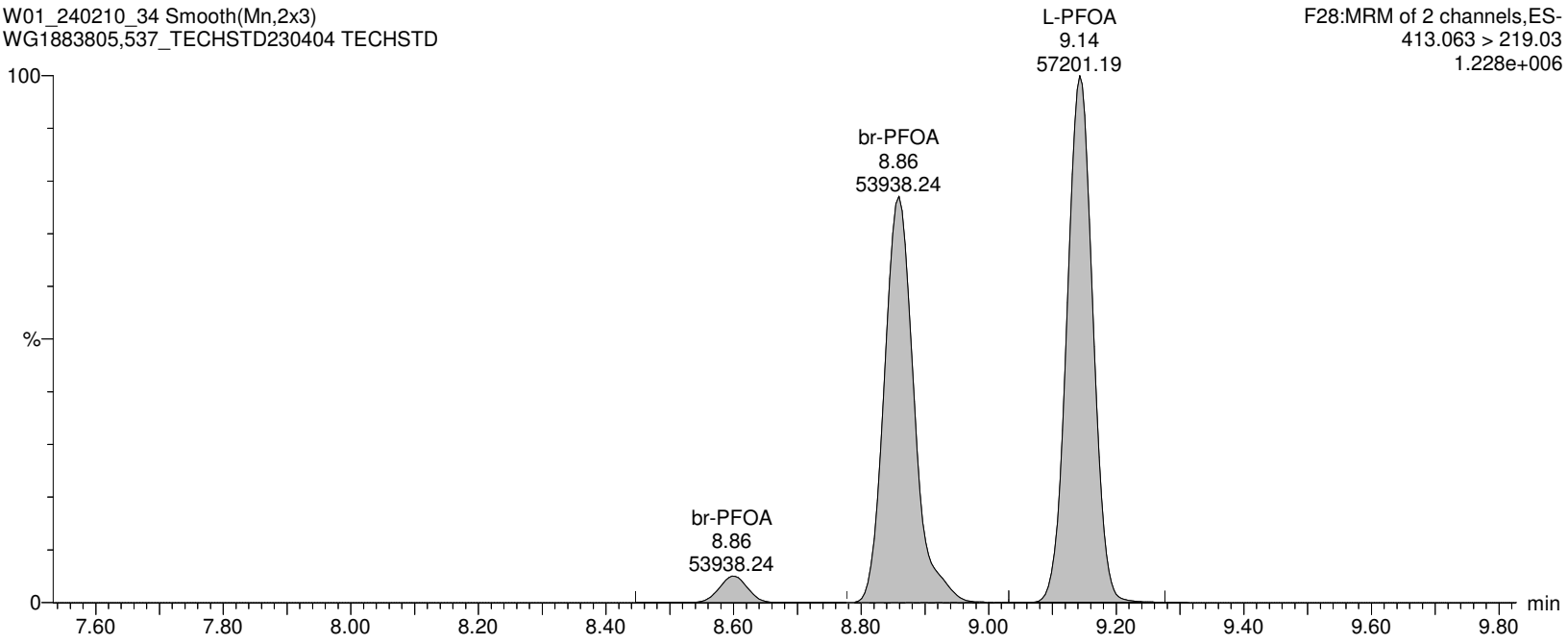
PFOA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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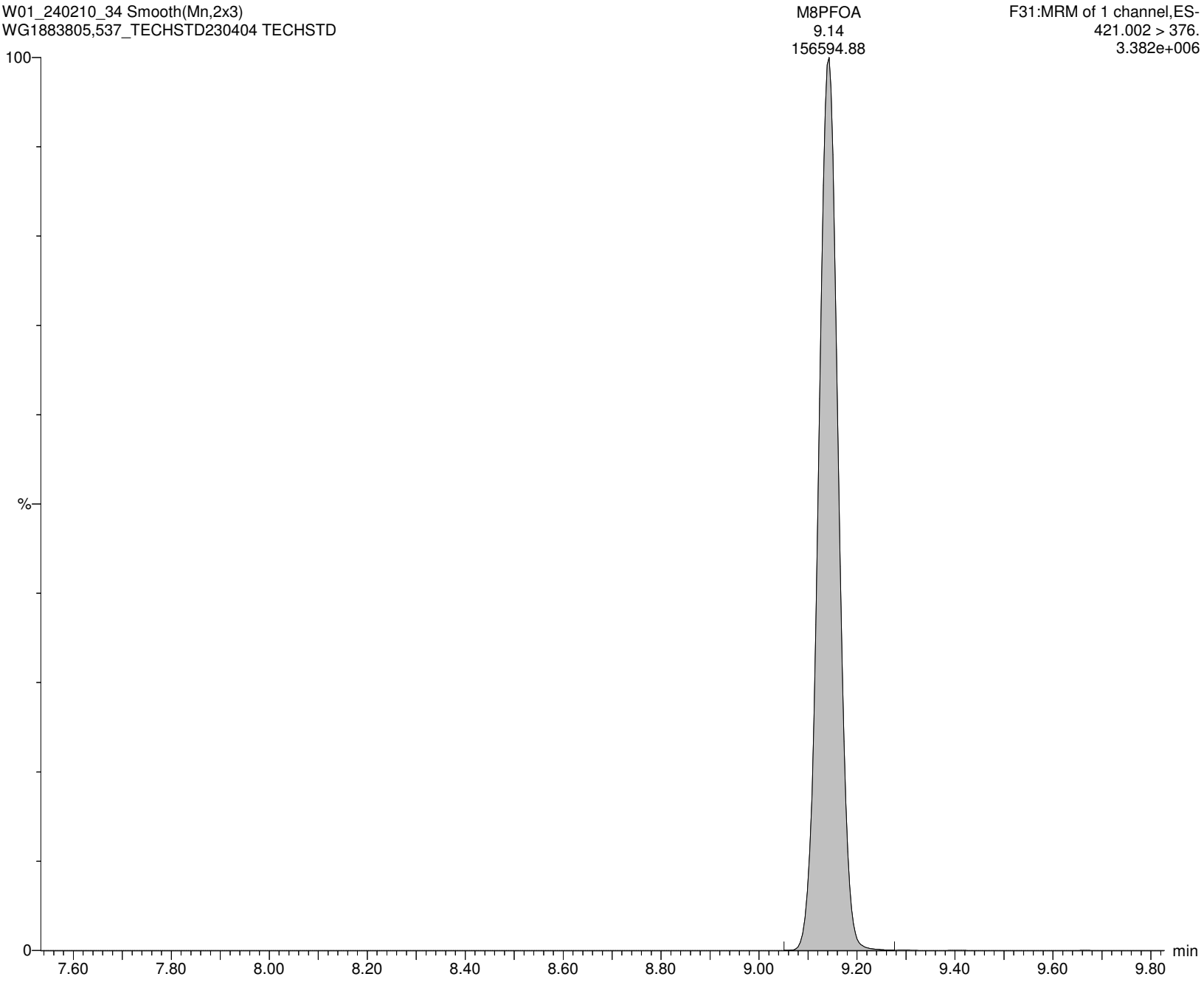
M8PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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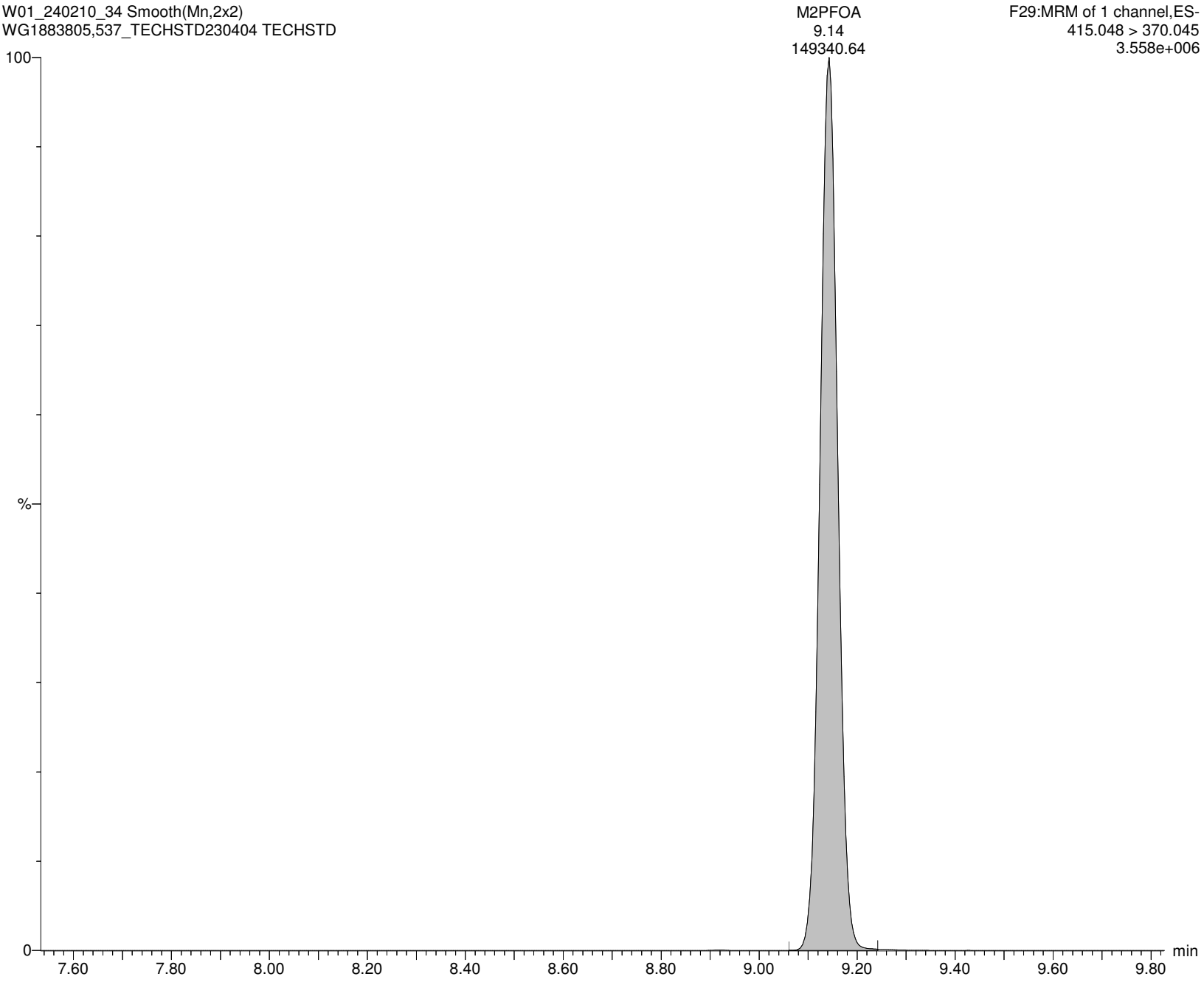
M2PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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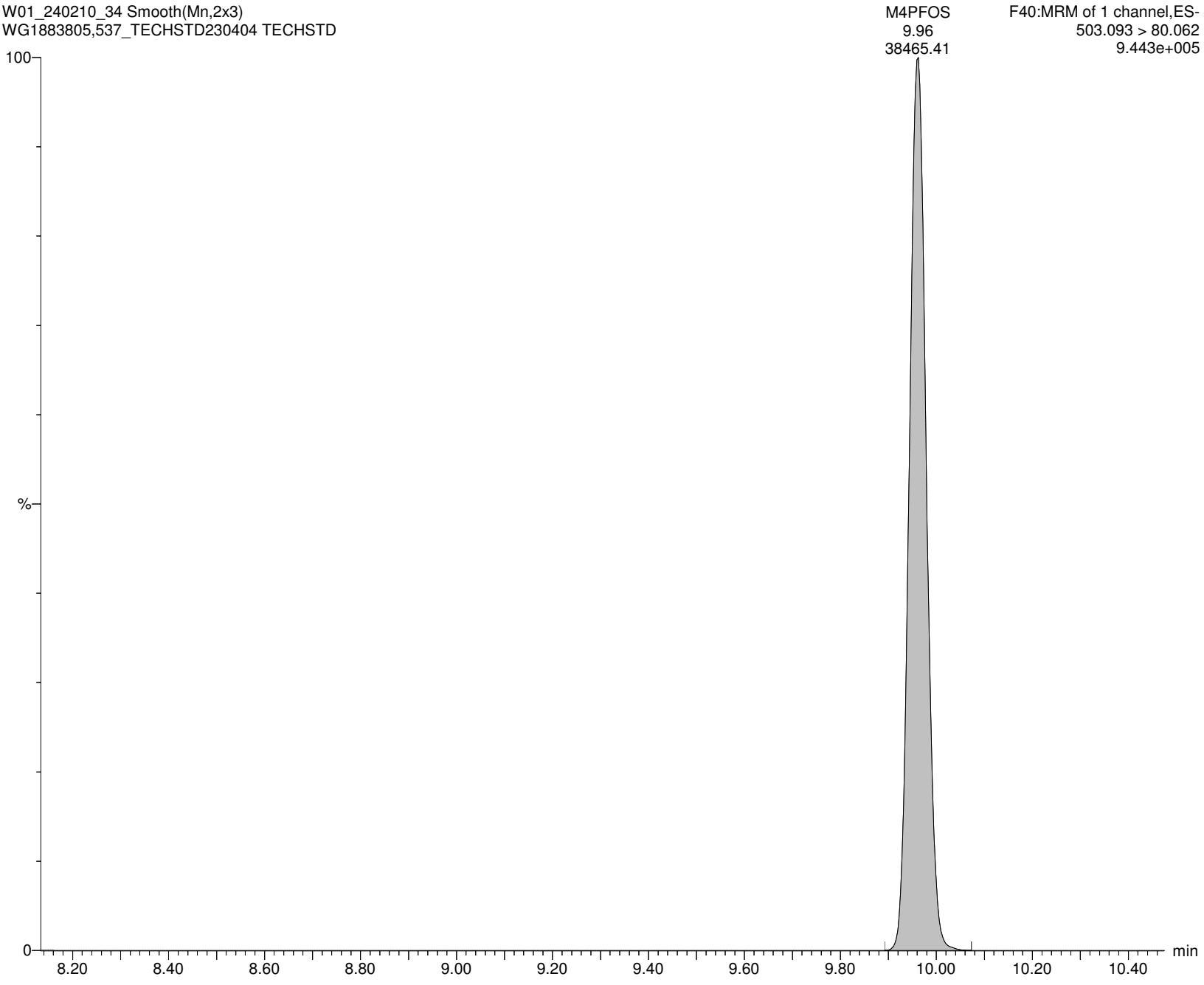
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240210_537ISO_ICAL.PRO\Data\WG1883805_TECH_STD.qld
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Instrument: XEVO-TQSmicro#QEA0276
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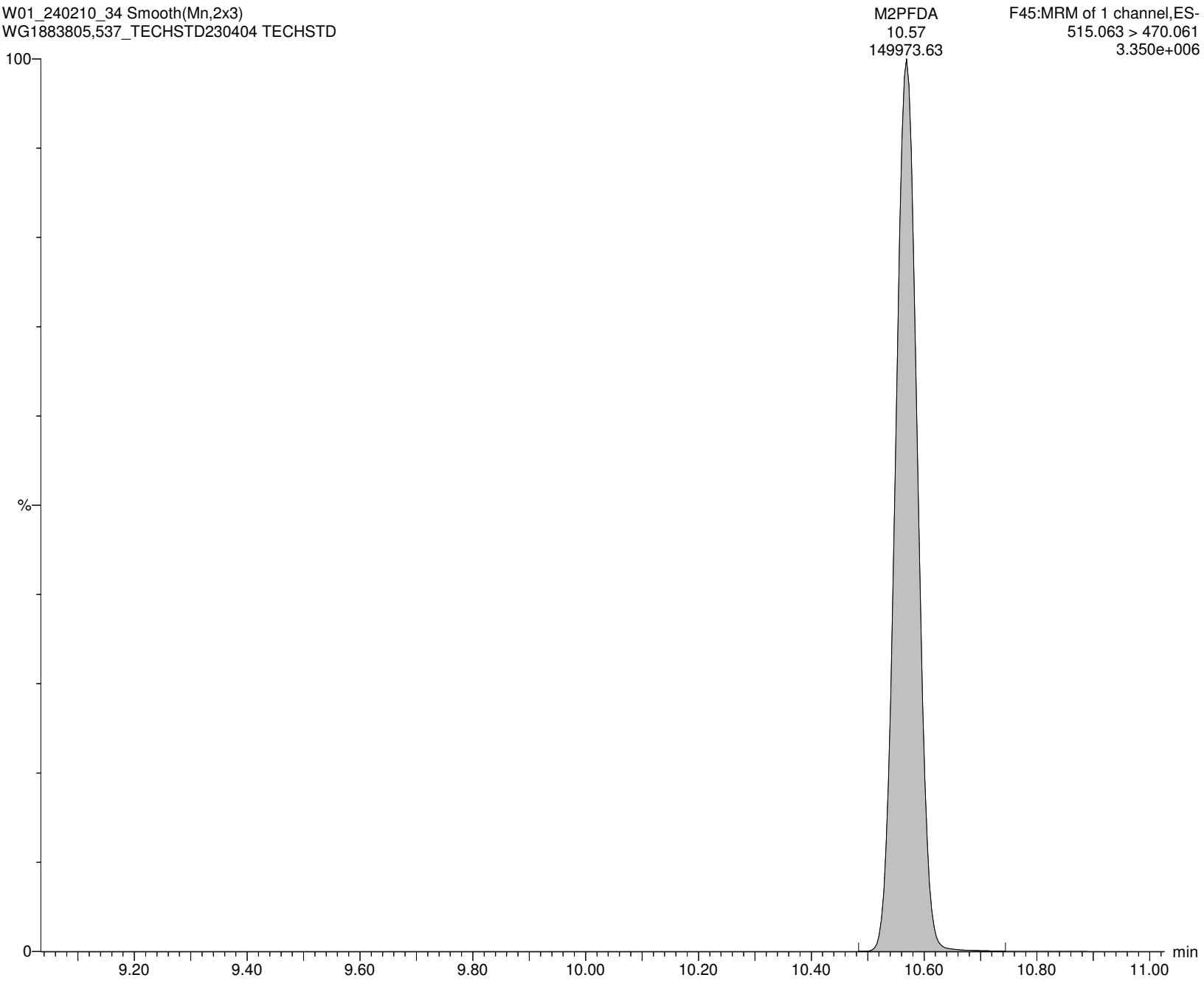

all concentration units in (ng/mL)

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331		
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000		
Instrument ID	: LCMS01	**Calibration Date**	: 03/08/24 06:05		
Lab File ID	: W01_240308_05	**Init. Calib. Date(s)**	: 02/10/24	02/10/24	
Sample No	: WG1893700-1	**Init. Calib. Times**	: 16:13	18:26	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.491	0.500	98.2	50-150
Perfluoropentanoic Acid (PFPeA)	0.465	0.500	93	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.449	0.440	101.1	50-150
Perfluorohexanoic Acid (PFHxA)	0.500	0.500	99.9	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.400	0.470	85.4	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.372	0.470	79	50-150
Perfluoroheptanoic Acid (PFHpA)	0.504	0.500	100.7	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.071	0.086	81.9	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.324	0.370	87.5	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.395	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.494	0.500	98.7	50-150
Perfluorooctanoic Acid (PFOA)	0.494	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.472	0.480	99.2	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.488	0.480	102.3	50-150
Perfluorononanoic Acid (PFNA)	0.462	0.500	92.4	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.101	0.098	103	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.334	0.365	91.3	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.435	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.529	0.500	105.9	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.435	0.480	90.6	50-150
Perfluorononanesulfonic Acid (PFNS)	0.448	0.480	93.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.555	0.500	-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	0.099	0.120	82.4	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	0.456	0.380	120.1	50-150
Perfluoroundecanoic Acid (PFUnA)	0.453	0.500	90.7	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.480	0.480	99.5	50-150
Perfluorooctanesulfonamide (FOSA)	0.497	0.500	99.4	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.385	0.500	-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)	0.031	0.113	27.7*	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	0.354	0.388	91.4	50-150
Perfluorododecanoic Acid (PFDoA)	0.454	0.500	90.8	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.620	0.500	124	50-150
Perfluorotetradecanoic Acid (PFTA)	0.470	0.500	94	50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	3.804	5.000	76.1	50-150
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	0.452	0.473	95.6	50-150
Perfluorohexadecanoic Acid (PFHxDA)	0.531	0.500	106.2	50-150
Perfluorooctadecanoic Acid (PFODA)	0.518	0.500	103.5	50-150
Perfluorododecane Sulfonic Acid (PFDoDS)	0.346	0.484	71.5	50-150
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	0.483	0.483	100	50-150
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	0.398	0.467	85.2	50-150
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	0.403	0.472	85.5	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.091	10.000	100.9	50-150

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331	
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000	
Instrument ID	: LCMS01	**Calibration Date**	: 03/08/24 06:05	
Lab File ID	: W01_240308_05	**Init. Calib. Date(s)**	: 02/10/24	02/10/24
Sample No	: WG1893700-1	**Init. Calib. Times**	: 16:13	18:26
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.537	10.000	105.4	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.216	9.320	98.9	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	9.368	9.380	99.9	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.766	10.000	107.7	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.982	10.000	99.8	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.409	9.480	109.8	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.433	10.000	104.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	9.345	9.510	98.3	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	10.796	10.000	108	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.473	9.590	98.8	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	10.116	10.000	101.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	8.681	9.600	90.4	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.138	10.000	91.4	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.953	10.000	109.5	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.039	10.000	100.4	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	10.386	10.000	103.9	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.213	10.000	92.1	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.154	10.000	91.5	50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	320.339	200.000	160.2*	50-150
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	12.186	10.000	121.9	50-150
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	24.661	19.600	125.8	50-150
M4PFOS	6.839		71.2	
M2PFDA	6.661		66.6	
M2PFOA	6.554		65.5	
M3PFBA	7.300		73	

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331		
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000		
Instrument ID	: LCMS01	**Calibration Date**	: 03/08/24 08:55		
Lab File ID	: W01_240308_15	**Init. Calib. Date(s)**	: 02/10/24	02/10/24	
Sample No	: WG1893700-2	**Init. Calib. Times**	: 16:13	18:26	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	10.017	10.000	100.2	70-130
Perfluoropentanoic Acid (PFPeA)	9.633	10.000	96.3	70-130
Perfluorobutanesulfonic Acid (PFBS)	9.039	8.870	101.9	70-130
Perfluorohexanoic Acid (PFHxA)	10.343	10.000	103.4	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	8.733	9.350	93.2	70-130
Perfluoropentanesulfonic Acid (PFPeS)	8.755	9.400	93	70-130
Perfluoroheptanoic Acid (PFHpA)	10.253	10.000	102.5	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.592	1.720	92.1	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	6.712	7.400	90.6	70-130
Perfluorohexanesulfonic Acid (PFHxS)	8.305	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)			-	70-130
Perfluorooctanoic Acid-Linear (L-PFOA)	9.676	10.000	96.8	70-130
Perfluorooctanoic Acid (PFOA)	9.676	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	9.548	9.500	100.4	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	10.650	9.500	111.8	70-130
Perfluorononanoic Acid (PFNA)	10.269	10.000	102.7	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	1.952	1.960	99.6	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	6.948	7.300	94.9	70-130
Perfluorooctanesulfonic Acid (PFOS)	8.900	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	10.030	10.000	100.3	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	10.340	9.600	107.7	70-130
Perfluorononanesulfonic Acid (PFNS)	9.331	9.600	97	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	9.487	10.000	-	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	2.075	2.400	86.5	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	7.412	7.600	97.5	70-130
Perfluoroundecanoic Acid (PFUnA)	9.473	10.000	94.7	70-130
Perfluorodecanesulfonic Acid (PFDS)	9.918	9.650	102.8	70-130
Perfluorooctanesulfonamide (FOSA)	9.438	10.000	94.4	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	8.686	10.000	-	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)	1.689	2.250	75.1	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	6.996	7.750	90.3	70-130
Perfluorododecanoic Acid (PFDoA)	9.608	10.000	96.1	70-130
Perfluorotridecanoic Acid (PFTrDA)	11.827	10.000	118.3	70-130
Perfluorotetradecanoic Acid (PFTA)	9.794	10.000	97.9	70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	81.133	100.000	81.1	70-130
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	9.261	9.450	98	70-130
Perfluorohexadecanoic Acid (PFHxDA)	9.691	10.000	96.9	70-130
Perfluorooctadecanoic Acid (PFODA)	8.545	10.000	85.4	70-130
Perfluorododecane Sulfonic Acid (PFDoDS)	10.004	9.680	103.3	70-130
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	9.071	9.660	93.9	70-130
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	8.785	9.330	94.2	70-130
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	8.564	9.430	90.8	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.374	10.000	93.7	50-150

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411331	
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000	
Instrument ID	: LCMS01	**Calibration Date**	: 03/08/24 08:55	
Lab File ID	: W01_240308_15	**Init. Calib. Date(s)**	: 02/10/24	02/10/24
Sample No	: WG1893700-2	**Init. Calib. Times**	: 16:13	18:26
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.086	10.000	100.9	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.081	9.320	97.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	9.035	9.380	96.3	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.054	10.000	100.5	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.127	10.000	91.3	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	9.827	9.480	103.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.756	10.000	97.6	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	8.927	9.510	93.9	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.639	10.000	96.4	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.005	9.590	93.9	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.516	10.000	95.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	8.134	9.600	84.7	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	10.248	10.000	102.5	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.048	10.000	100.5	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9.786	10.000	97.9	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.605	10.000	96	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	8.980	10.000	89.8	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.148	10.000	91.5	50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	292.398	200.000	146.2	50-150
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	12.583	10.000	125.8	50-150
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	21.288	19.600	108.6	50-150
M4PFOS	6.580		68.5	
M2PFDA	6.258		62.6	
M2PFOA	6.302		63	
M3PFBA	7.055		70.6	

* Value outside of QC limits.

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: WG1893700-1,537ILOW
Name: W01_240308_05
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.25	213.032 > 169.022	2858		0.491		na	98.2
2	M3PFBA	INT STD	2.25	216.009 > 171.999	55988		7.300		na	73.0
3	MPFBA	INT STD	2.25	217.001 > 171.999	64285		10.091		na	100.9
4	PFPeA	2706-90-3	5.14	263.039 > 219.03	3296		0.465		na	93.0
5	M5PFPEA	INT STD	5.14	268.001 > 222.999	70087		10.537		na	105.4
6	PFBS	375-73-5	5.79	299.092 > 80.062	1102		0.449	2.29	NO	101.1
7	M3PFBS	INT STD	5.79	302.069 > 80.062	22171		9.216		na	98.9
8	4:2FTS	757124-72-4	6.94	327.146 > 307.139	298		0.400	1.43	NO	85.4
9	M2-4:2FTS	INT STD	6.94	329.13 > 309.124	6641		9.368		na	99.9
10	PFHxA	307-24-4	7.02	313.047 > 269.037	4350		0.500	14.50	NO	99.9
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	91704		10.766		na	107.7
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	1024		0.372	1.53	NO	79.0
13	PFHpA	375-85-9	8.26	363.055 > 319.045	4578		0.504	4.39	NO	100.7
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	90466		9.982		na	99.8
15	br-PFHxS	355-46-4	8.18	399.107 > 80.062	186	M5,M7	0.071	2.37	NO	81.9
16	L-PFHxS	355-46-4	8.41	399.107 > 80.062	898	M7	0.324	1.57	NO	87.5
17	PFHxS	355-46-4		399.107 > 80.062	1084		0.395		na	
18	M3PFHxS	INT STD	8.40	402.084 > 80.062	24086		10.409		na	109.8
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.17	413.063 > 369.053	5213		0.494	8.58	NO	98.7
21	PFOA	335-67-1		413.063 > 369.053	5213		0.494		na	
22	M8PFOA	INT STD	9.17	421.002 > 376.	102745		10.433		na	104.3
23	M2PFOA	INT STD	9.17	415.048 > 370.045	97295		6.554		na	65.5
24	6:2FTS	27619-97-2	9.13	427.161 > 407.155	327		0.472	4.95	NO	99.2
25	M2-6:2FTS	INT STD	9.13	429.146 > 409.14	7611		9.345		na	98.3
26	PFHpS	375-92-8	9.26	449.115 > 80.062	1155		0.488	1.63	NO	102.3
27	PFNA	375-95-1	9.95	463.071 > 419.061	5142		0.462	5.80	NO	92.4
28	M9PFNA	INT STD	9.95	472.002 > 427.	110453		10.796		na	108.0
29	br-PFOS	1763-23-1	9.81	499.123 > 80.062	329	M5,M7	0.101	4.86	NO	103.0
30	L-PFOS	1763-23-1	10.00	499.123 > 80.062	961	M7	0.334	1.70	NO	91.3
31	PFOS	1763-23-1		499.123 > 80.062	1290		0.435		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	25328		6.839		na	71.2
33	M8PFOS	INT STD	10.00	507.062 > 80.062	25596		9.473		na	98.8
34	PFDA	335-76-2	10.60	513.078 > 469.069	4643		0.529	4.09	NO	105.9
35	M2PFDA	INT STD	10.60	515.063 > 470.061	89364		6.661		na	66.6
36	M6PFDA	INT STD	10.60	519.033 > 474.03	90132		10.116		na	101.2
37	8:2FTS	39108-34-4	10.59	527.177 > 507.171	283		0.435	2.40	NO	90.6
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	7476		8.681		na	90.4
39	PFNS	68259-12-1	10.62	549.131 > 80.062	1281		0.448	4.11	YES	93.2

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

ID: WG1893700-1,537ILOW
Name: W01_240308_05
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	12504		9.138		na	91.4
41	br-NMeFOSAA	2355-31-9	10.81	570.202 > 419.061	36	M5,M7	0.099	1.04	NO	82.4
42	L-NMeFOSAA	2355-31-9	10.97	570.202 > 419.061	392		0.456	1.87	NO	120.1
43	NMeFOSAA	2355-31-9		570.202 > 419.061	428		0.555		na	
44	PFUnA	2058-94-8	11.15	563.086 > 519.076	5010		0.453	5.38	NO	90.7
45	M7-PFUDA	INT STD	11.15	570.033 > 525.031	106317		10.953		na	109.5
46	PFDS	335-77-3	11.17	598.926 > 80.062	1238		0.480	3.08	YES	99.5
47	FOSA	754-91-6	10.92	498.146 > 78.07	3621	M7	0.497	105.89	YES	99.4
48	M8FOSA	INT STD	10.92	506.077 > 78.07	65769		10.039		na	100.4
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	13396		10.386		na	103.9
50	br-NEtFOSAA	2991-50-6	11.12	584.229 > 419.061	16	M5,M7	0.031	0.30	YES	27.7
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	383	M7	0.354	1.23	NO	91.4
52	NEtFOSAA	2991-50-6		584.229 > 419.061	398		0.385		na	
53	PFDoA	307-55-1	11.64	613.094 > 569.084	4948		0.454	7.11	NO	90.8
54	MPFDOA	INT STD	11.64	615.079 > 570.077	100374		9.213		na	92.1
55	PFTrDA	72629-94-8	12.06	663.102 > 619.092	4520		0.620	13.03	NO	124.0
56	PFTA	376-06-7	12.44	713.11 > 669.1	4709		0.470	20.42	NO	94.0
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	89949		9.154		na	91.5
58	M3HFPO-DA	INT STD	7.44	287.02 > 169.022	177054		320.339		na	160.2
59	HFPO-DA	13252-13-6	7.44	285.035 > 169.022	2506	M7	3.804	92.05	YES	76.1
60	ADONA	958445-44-8	8.42	377.06 > 251.028	5191	M7	0.452	83.64	NO	95.6
61	PFHxDA		12.83	813.122 > 769.116	10763	M7	0.531	36.29	NO	106.2
62	PFODA		13.06	913.411 > 869.131	2891		0.518	187.15	YES	103.5
63	M2PFHxDA		12.83	815.102 > 770.108	185453		12.186		na	121.9
64	PFDoS		12.05	699.154 > 80.062	880		0.346	1.29	NO	71.5
65	M2D4-10:2FTS		11.65	633.201 > 612.189	9143		24.661		na	125.8
66	10:2FTS		11.65	627.192 > 607.186	345	M7	0.483	3.54	NO	100.0
67	9CL-PF3ONS		10.36	531.096 > 351.07	2661		0.398	2.30	NO	85.2
68	11CL-PFOUdS		11.43	631.096 > 451.076	2598		0.403	2.94	NO	85.5

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

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Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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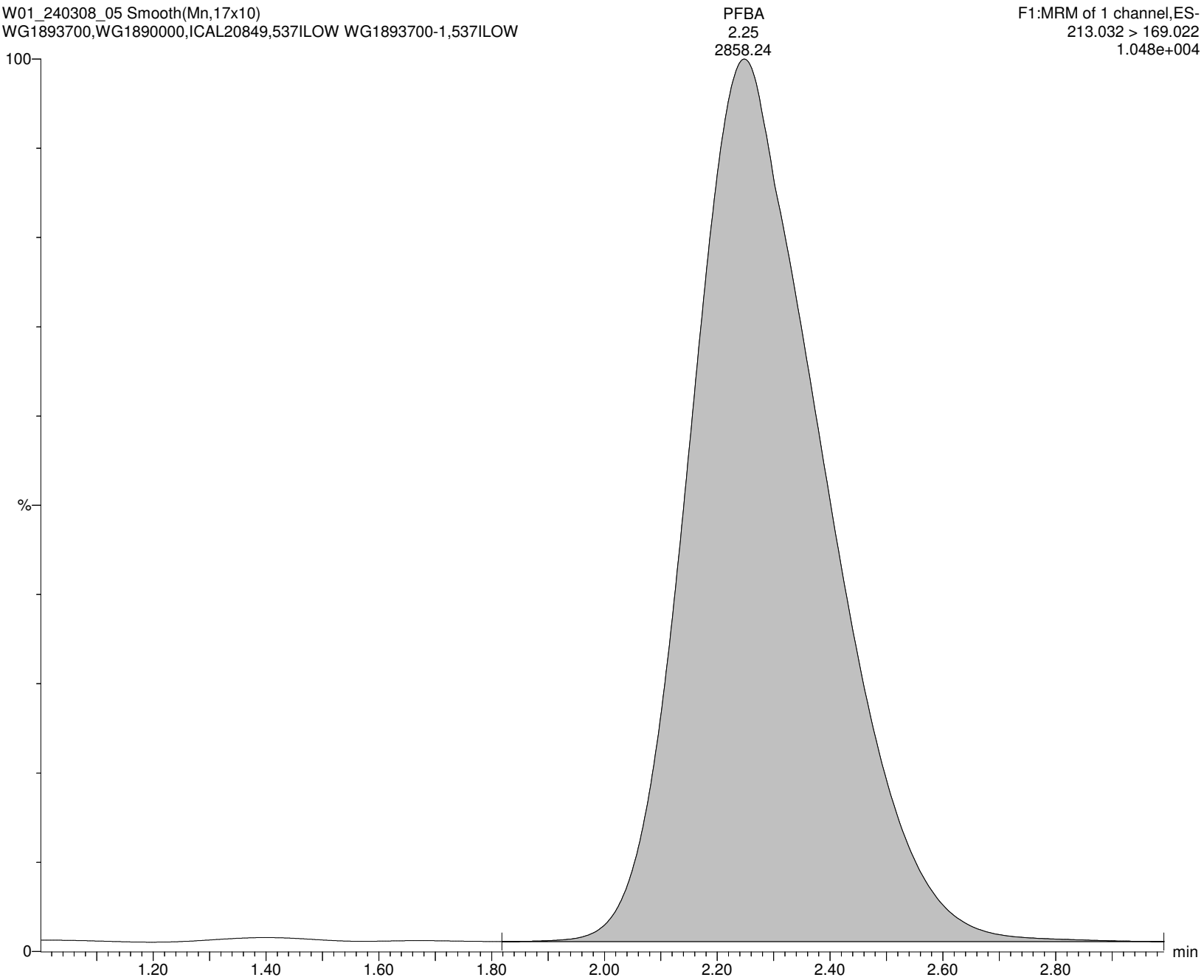
PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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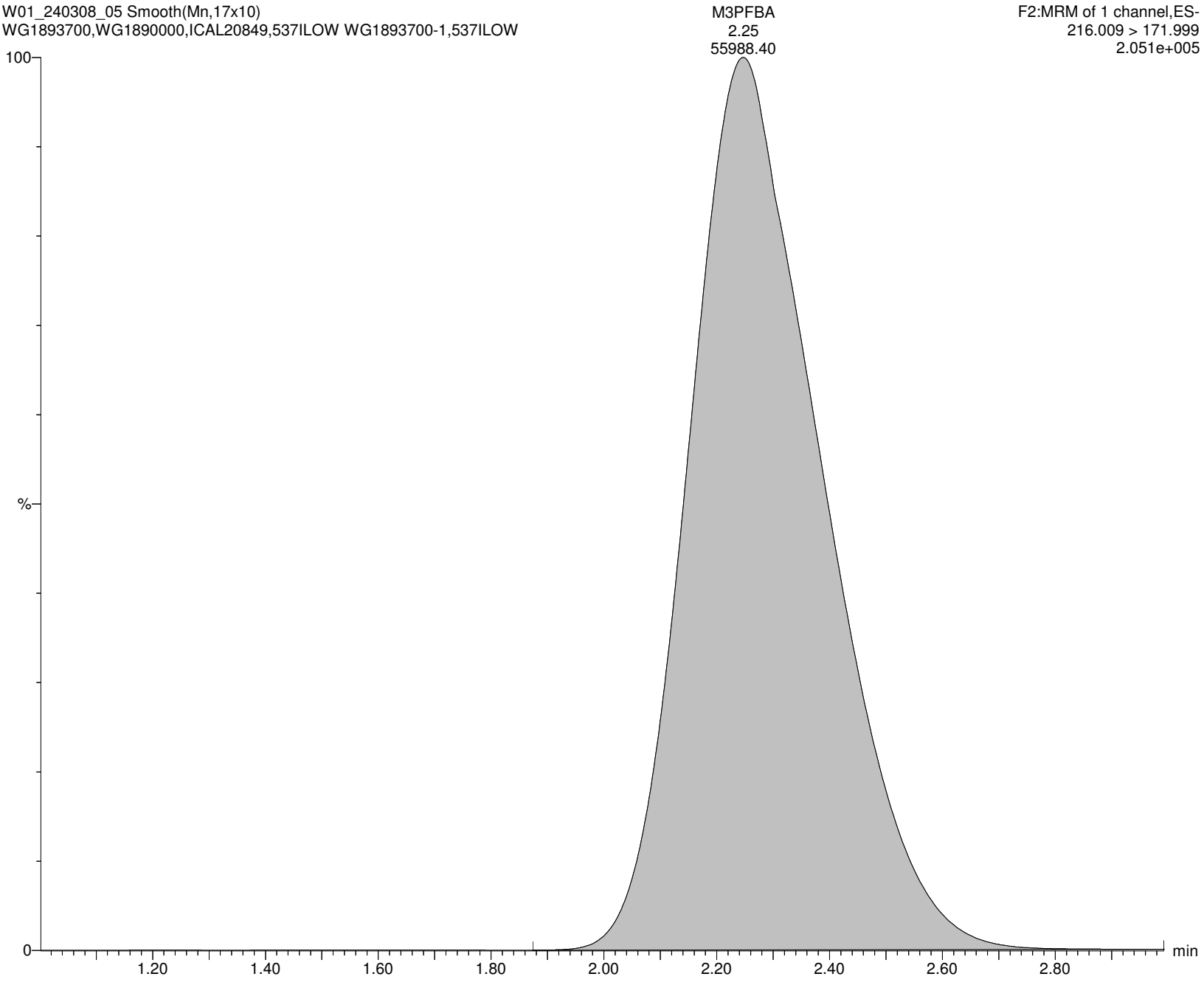
Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
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Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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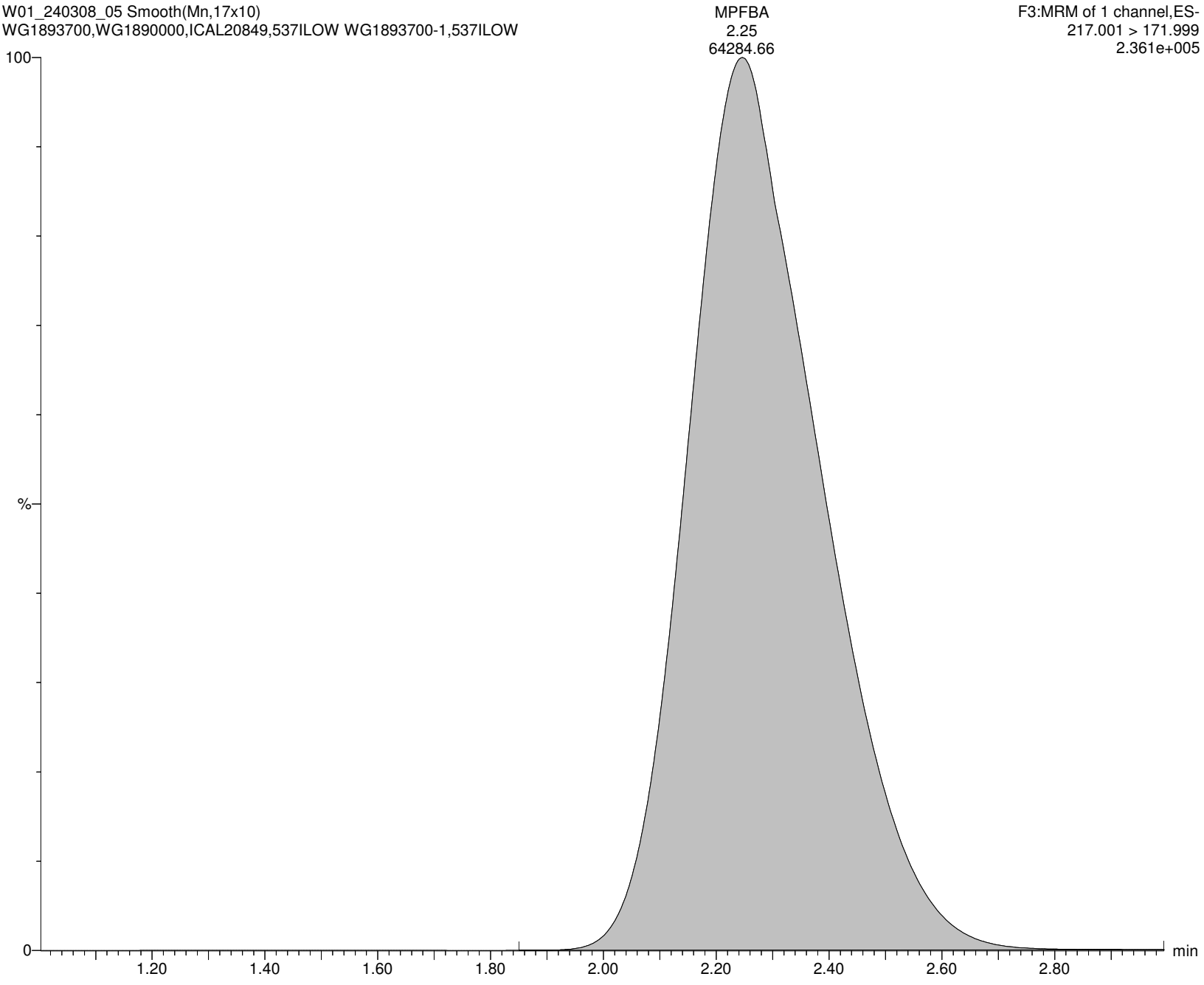
MPFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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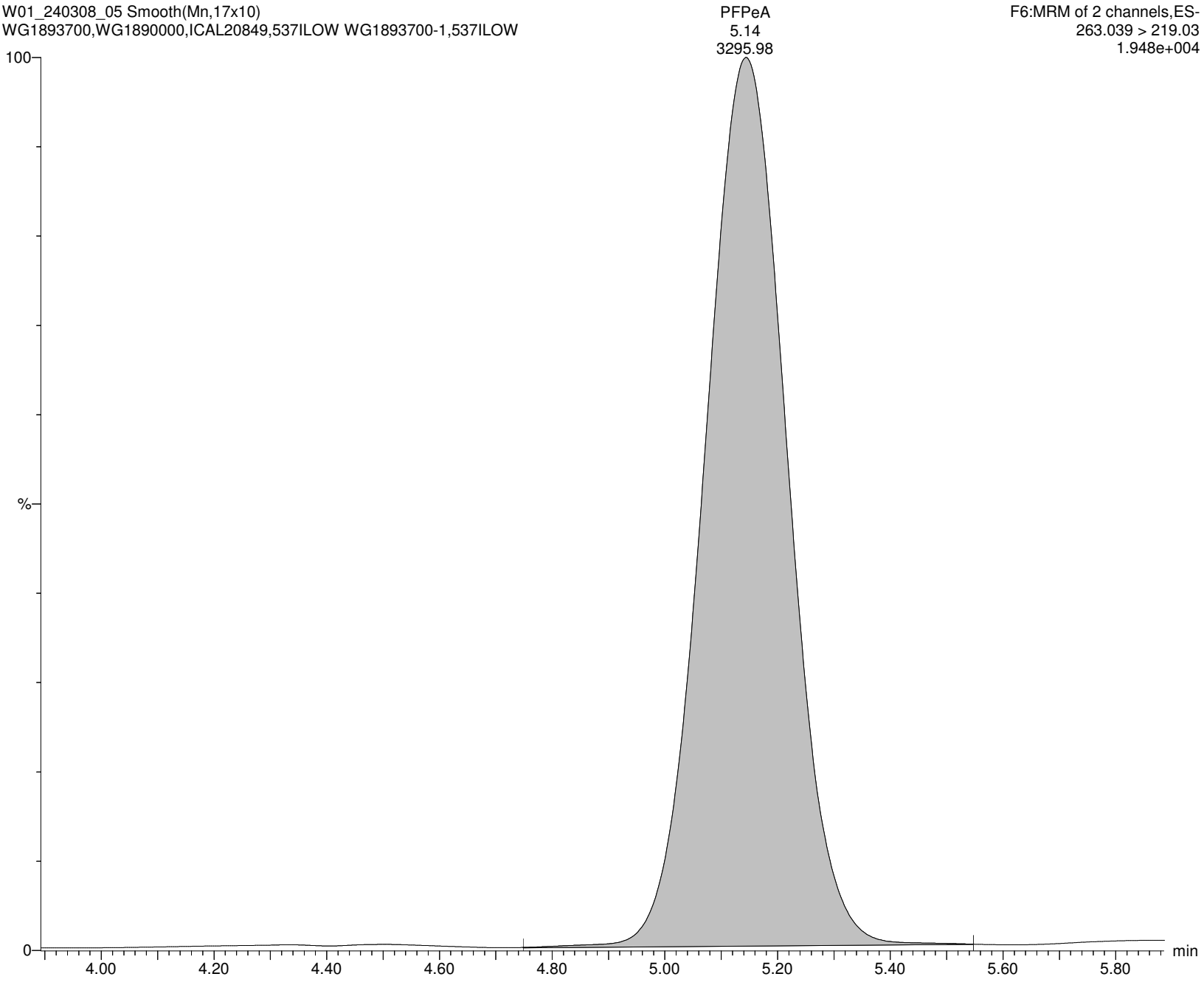

all concentration units in (ng/mL)

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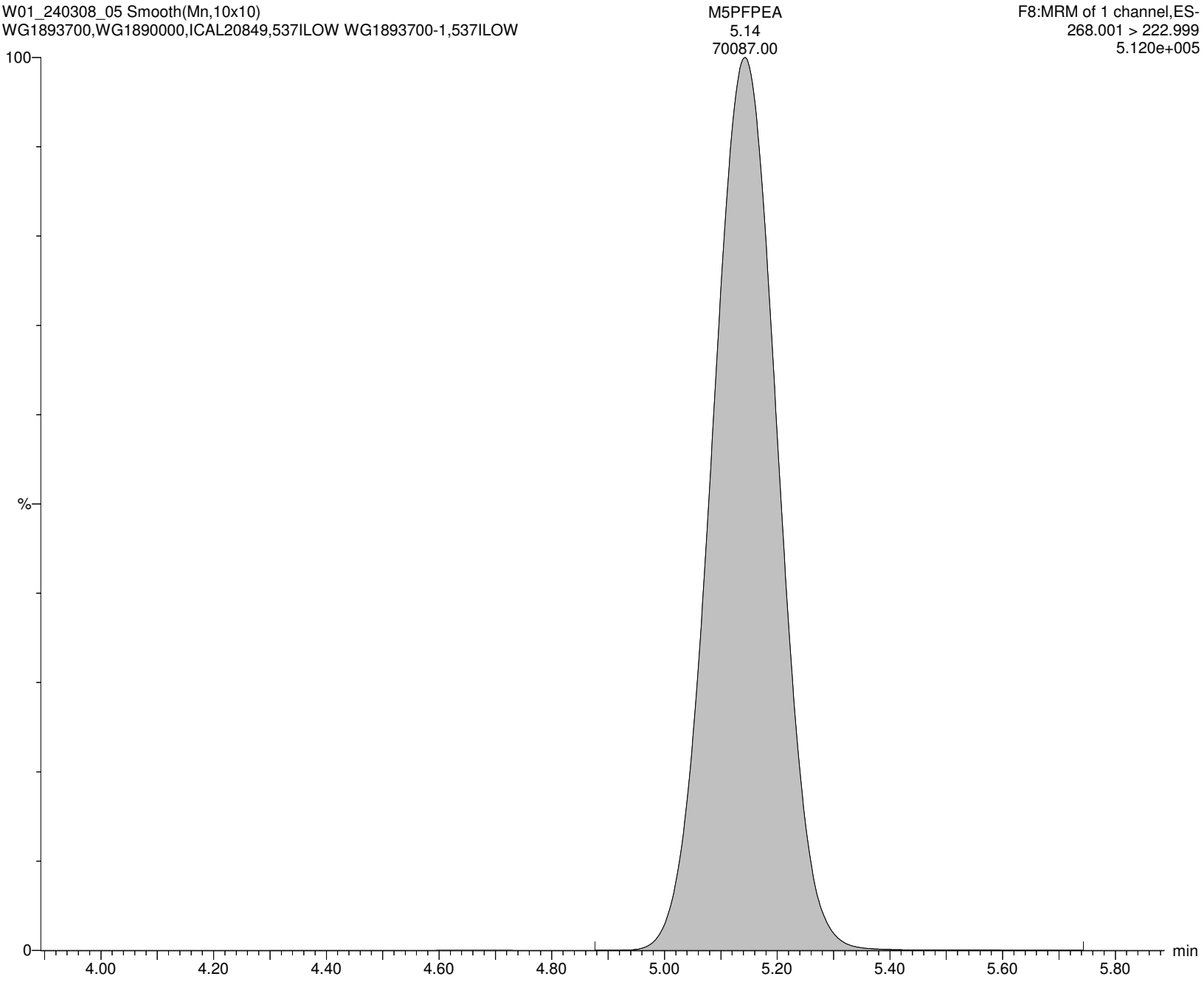

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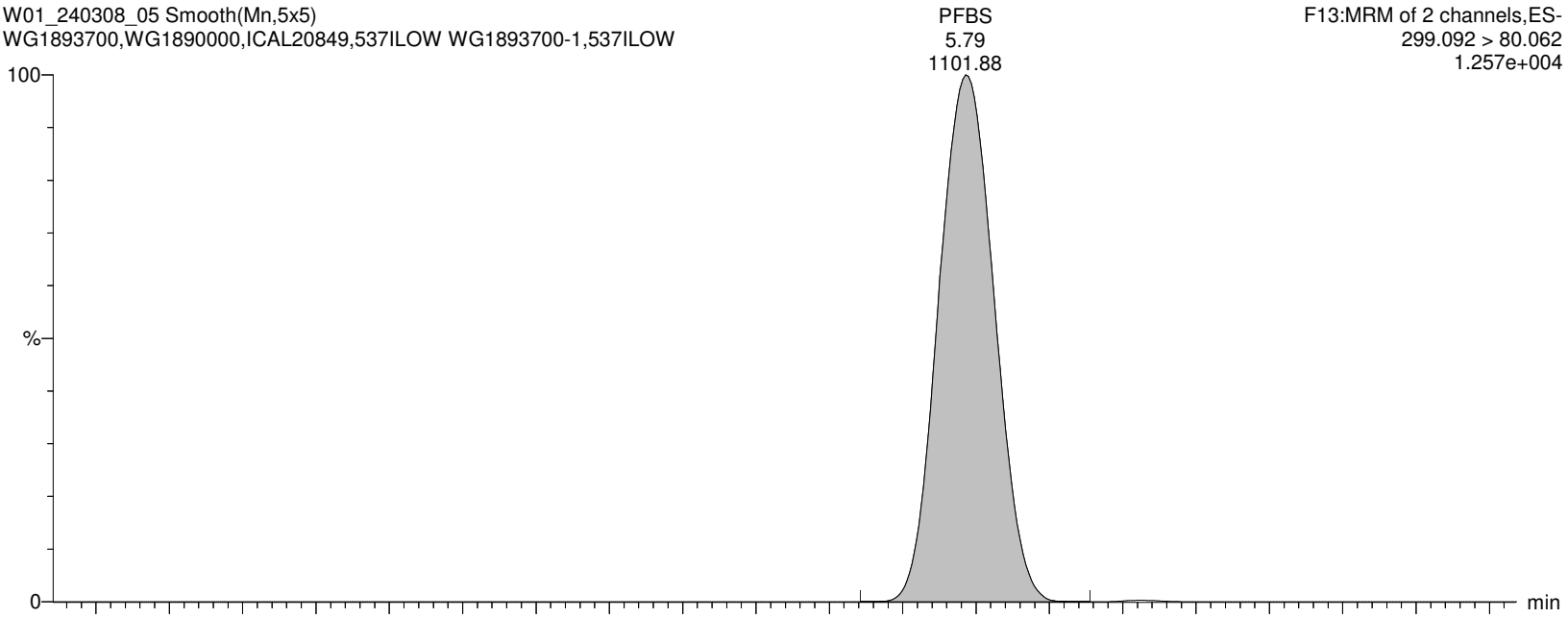

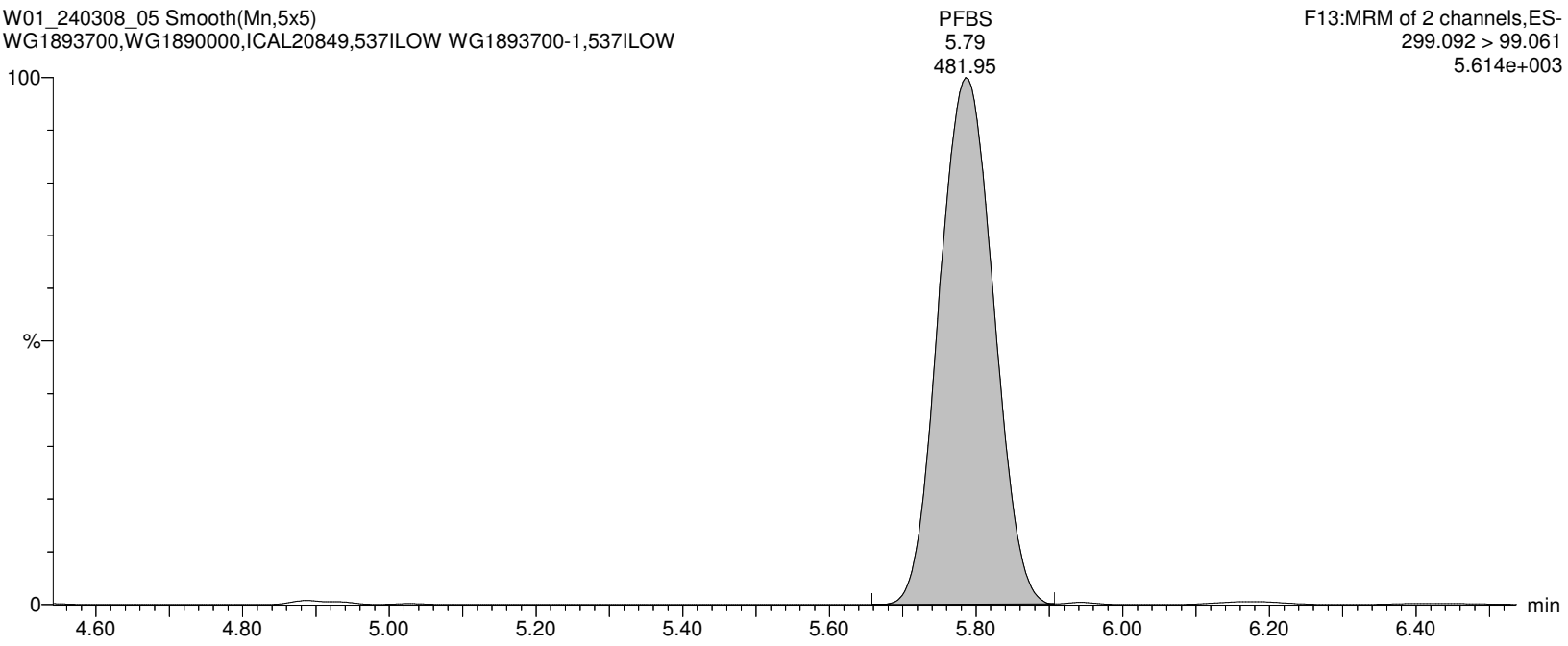

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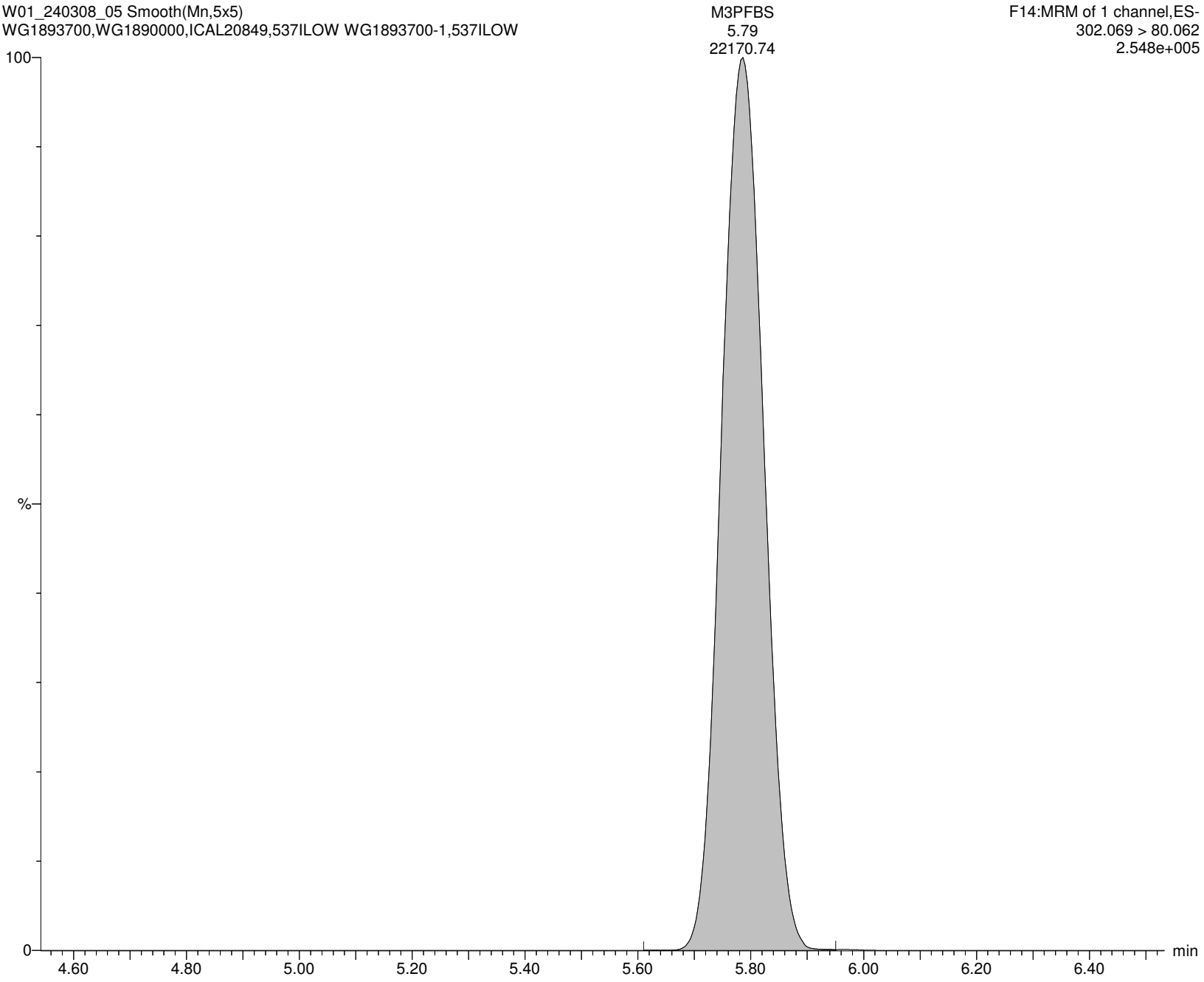

all concentration units in (ng/mL)

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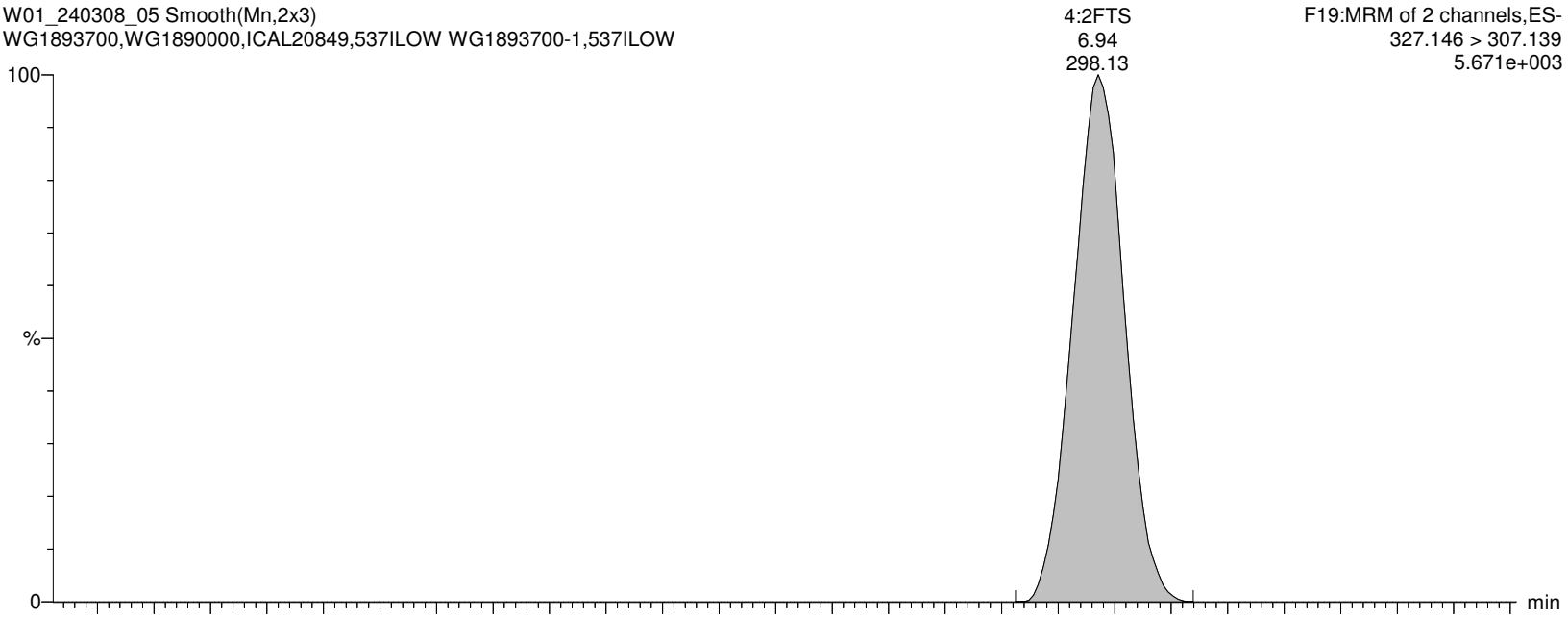

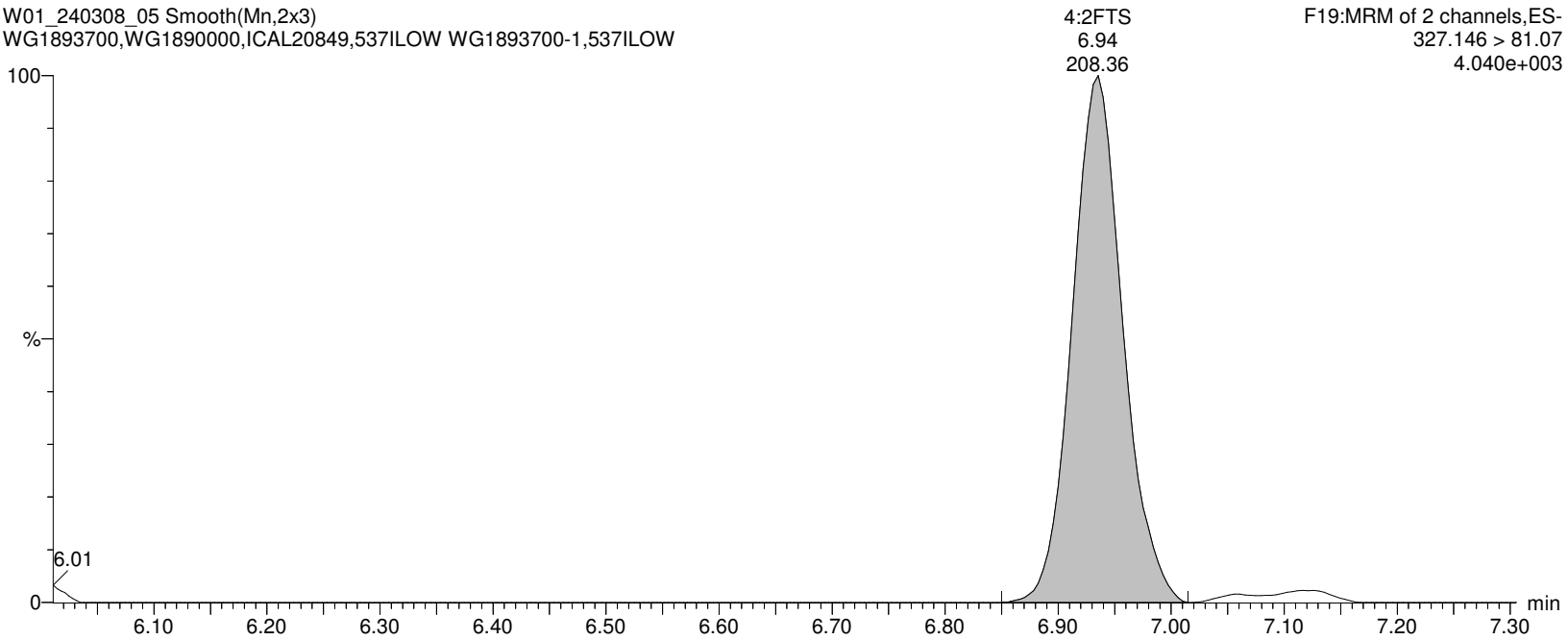

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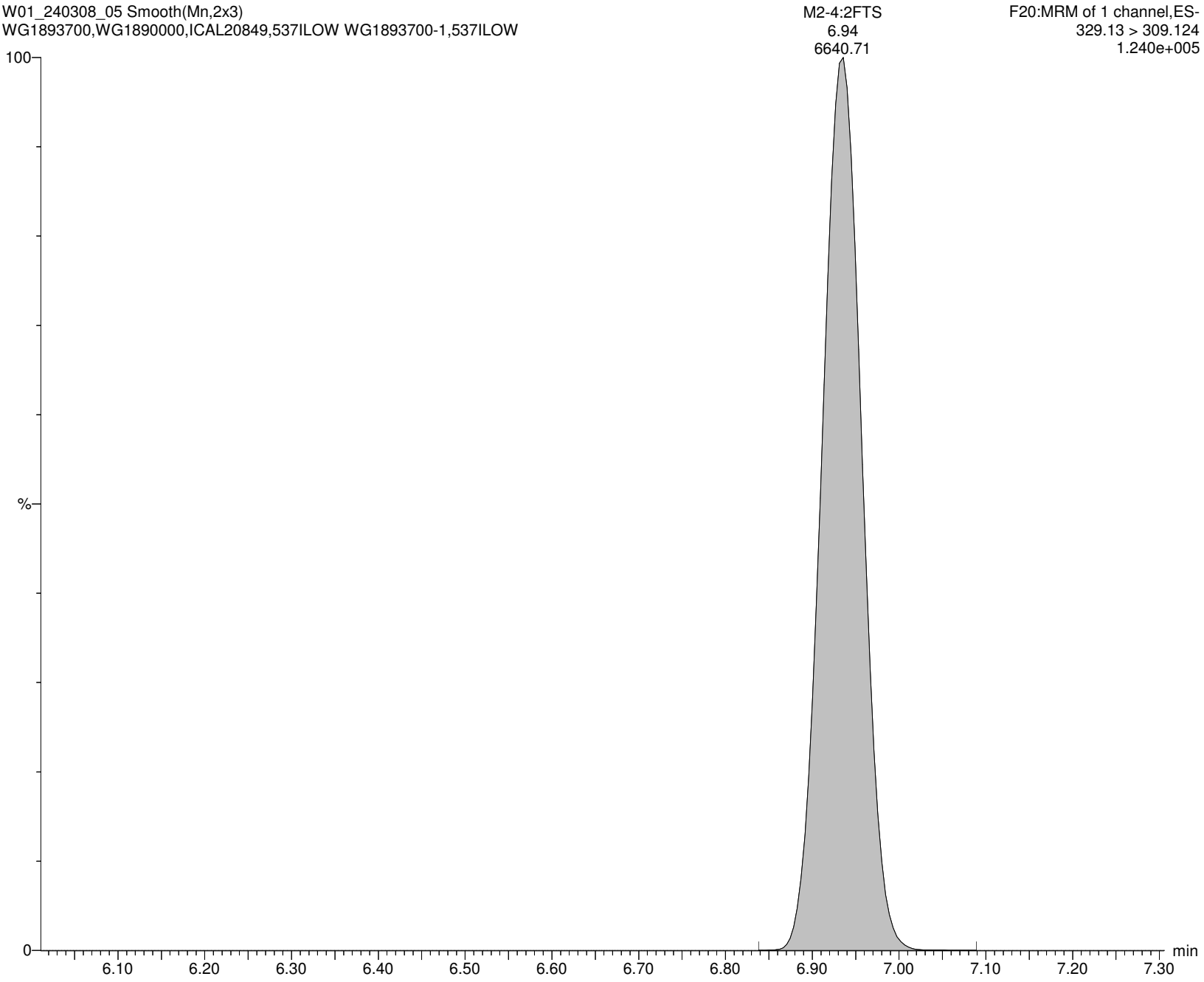

all concentration units in (ng/mL)

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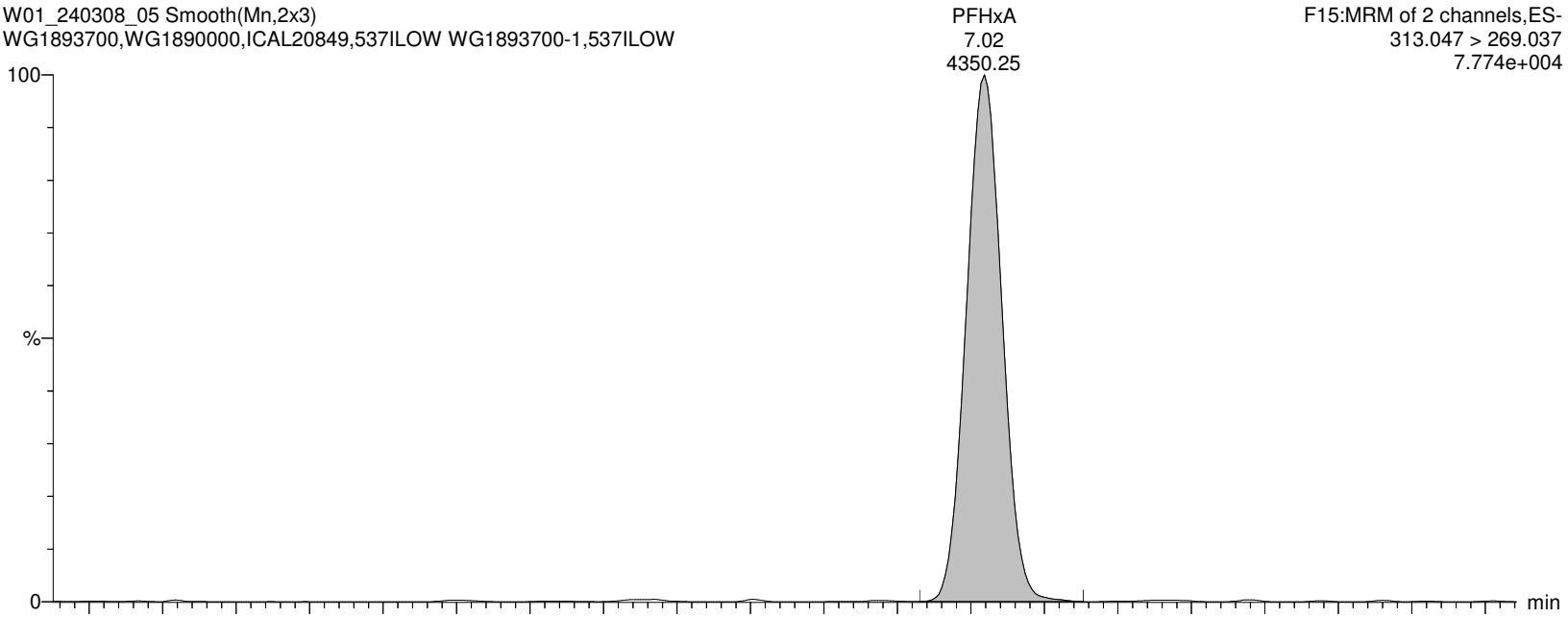

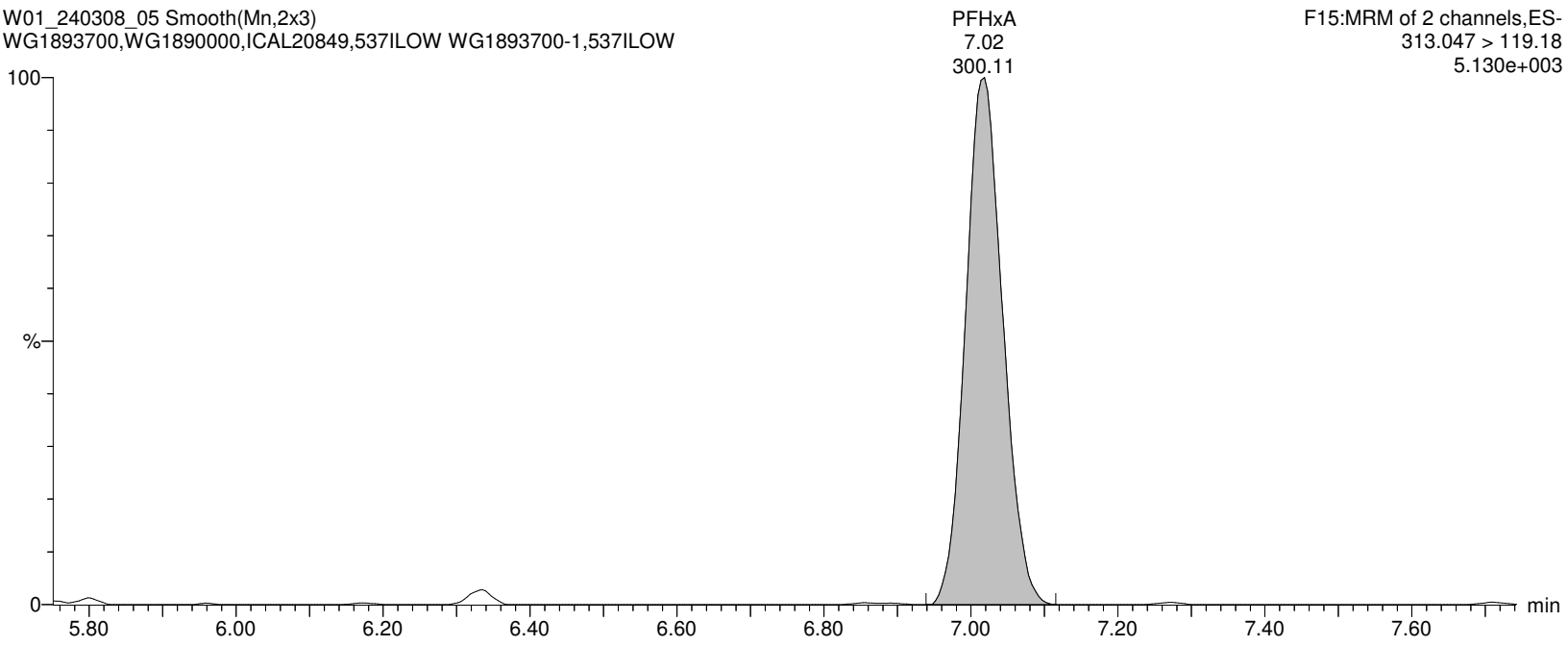

all concentration units in (ng/mL)

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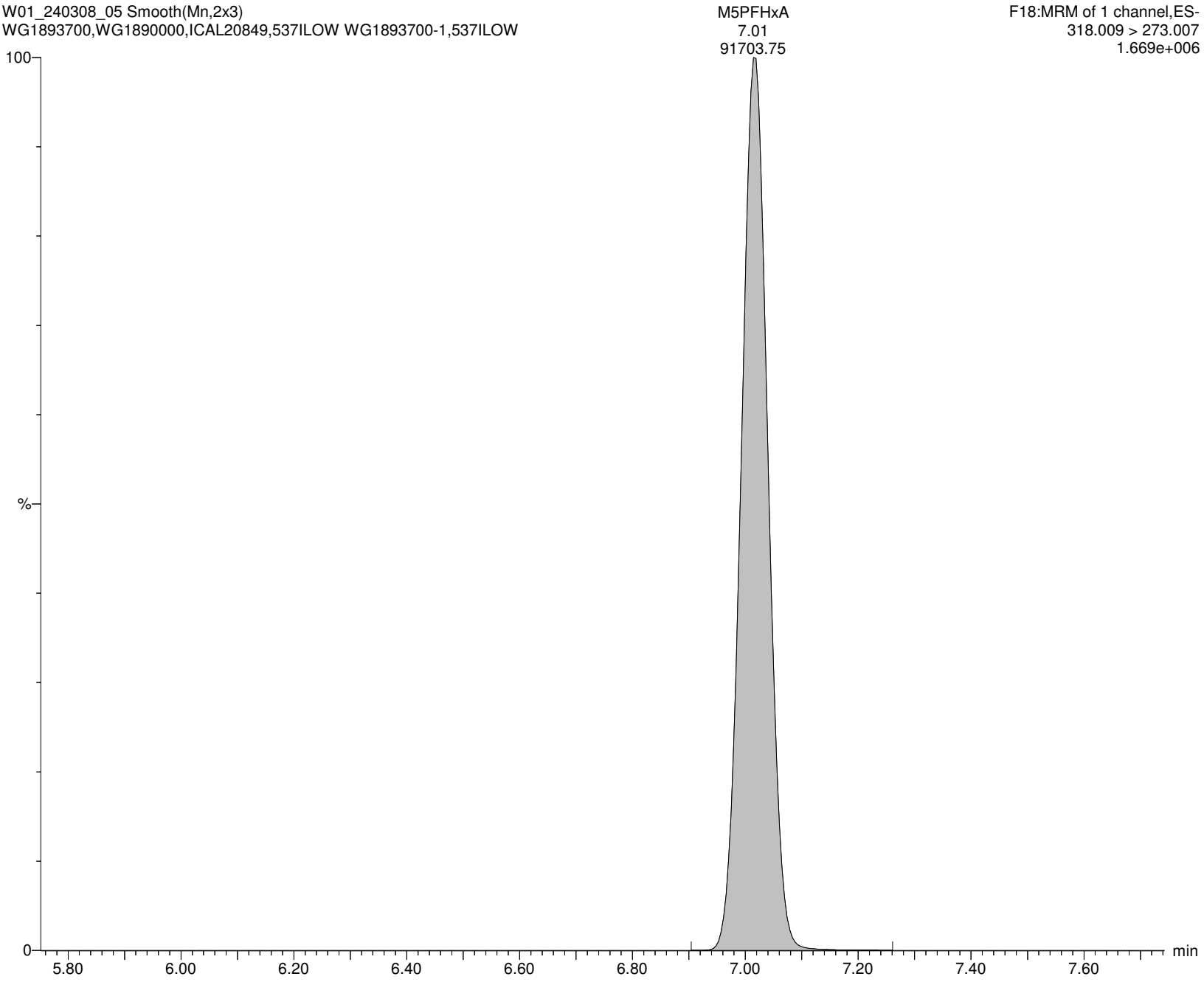

all concentration units in (ng/mL)

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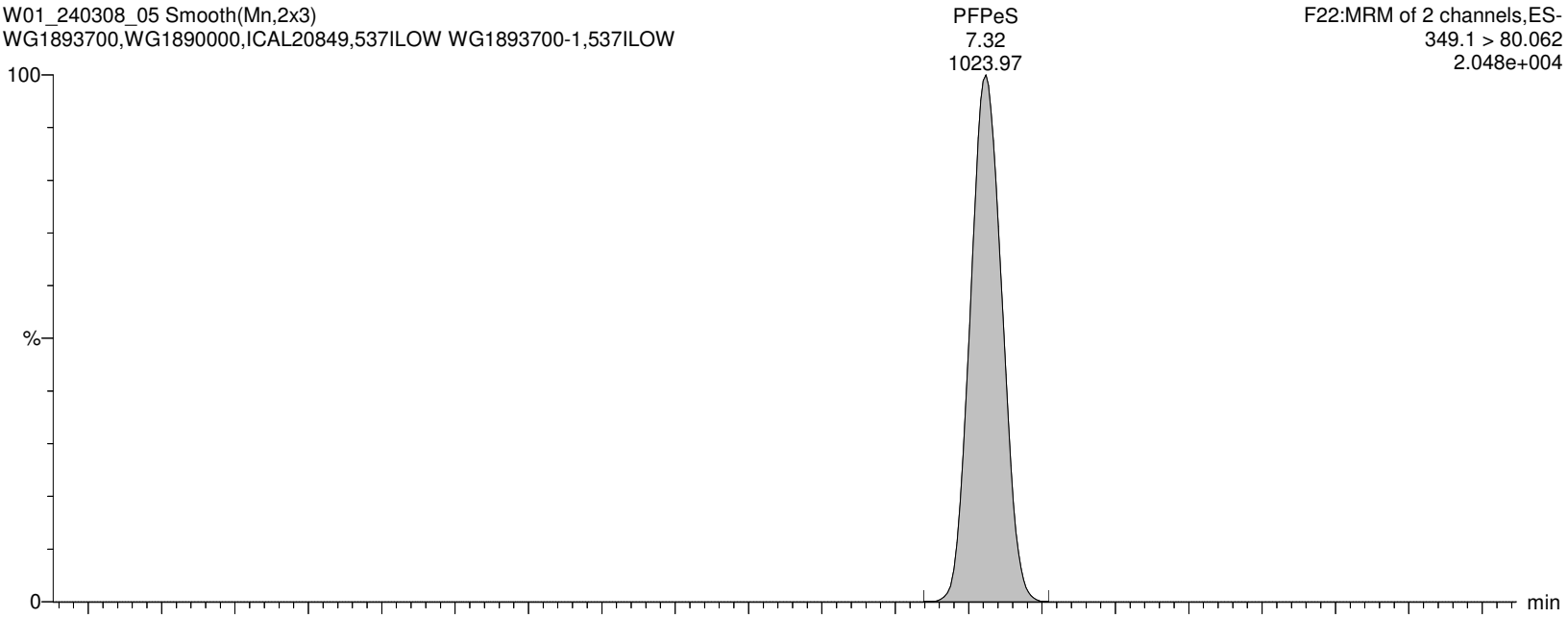

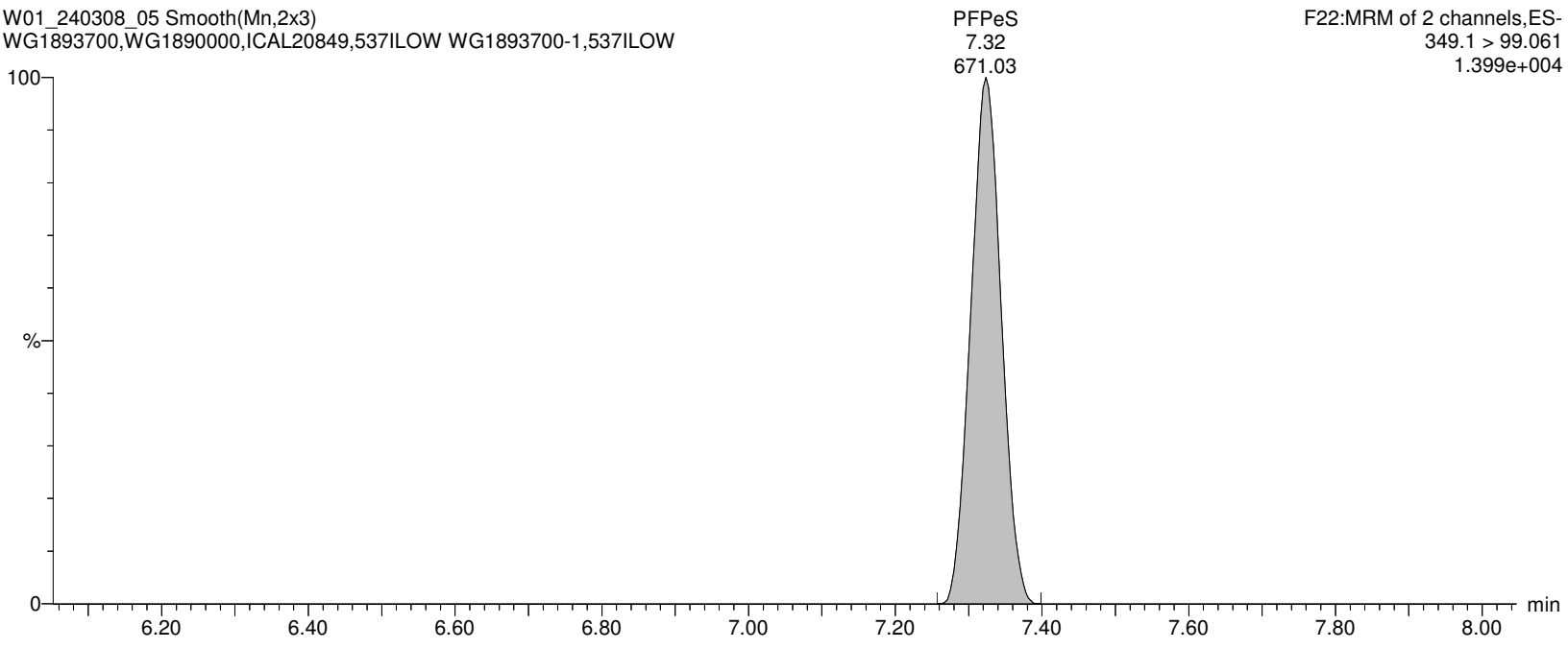

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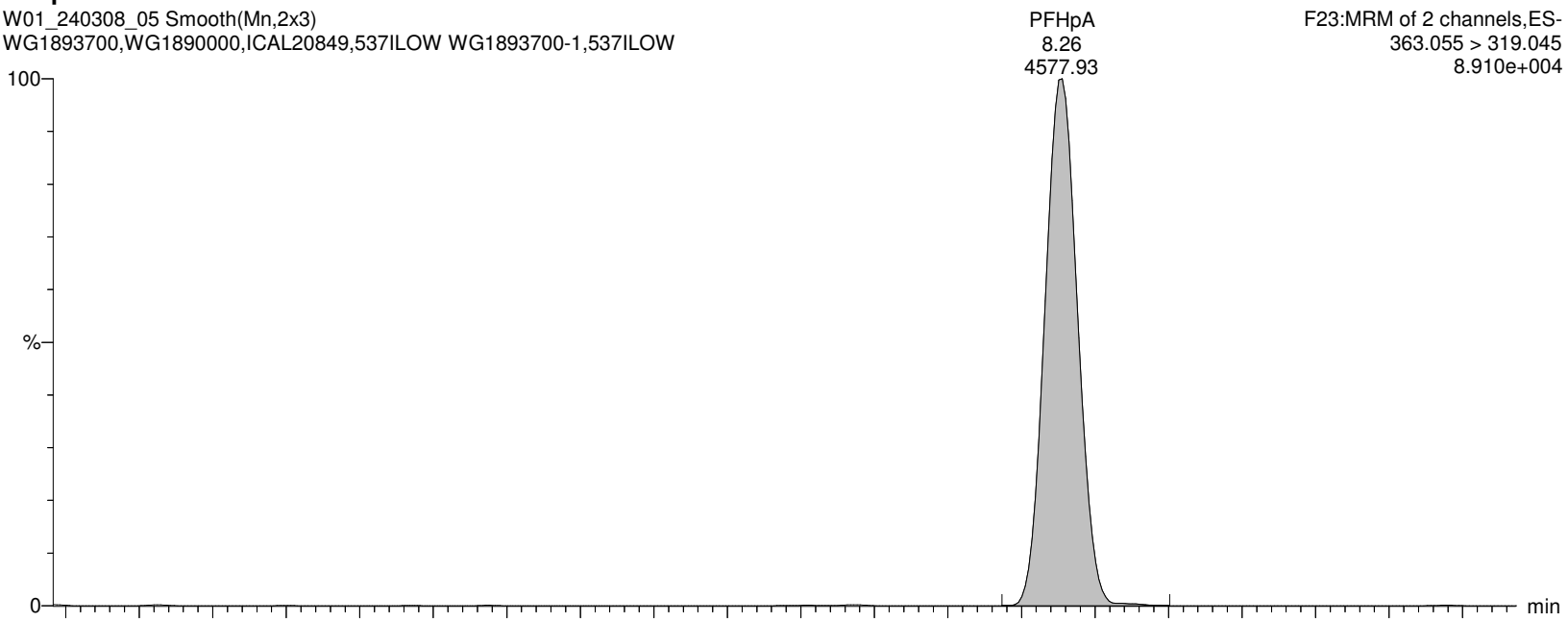

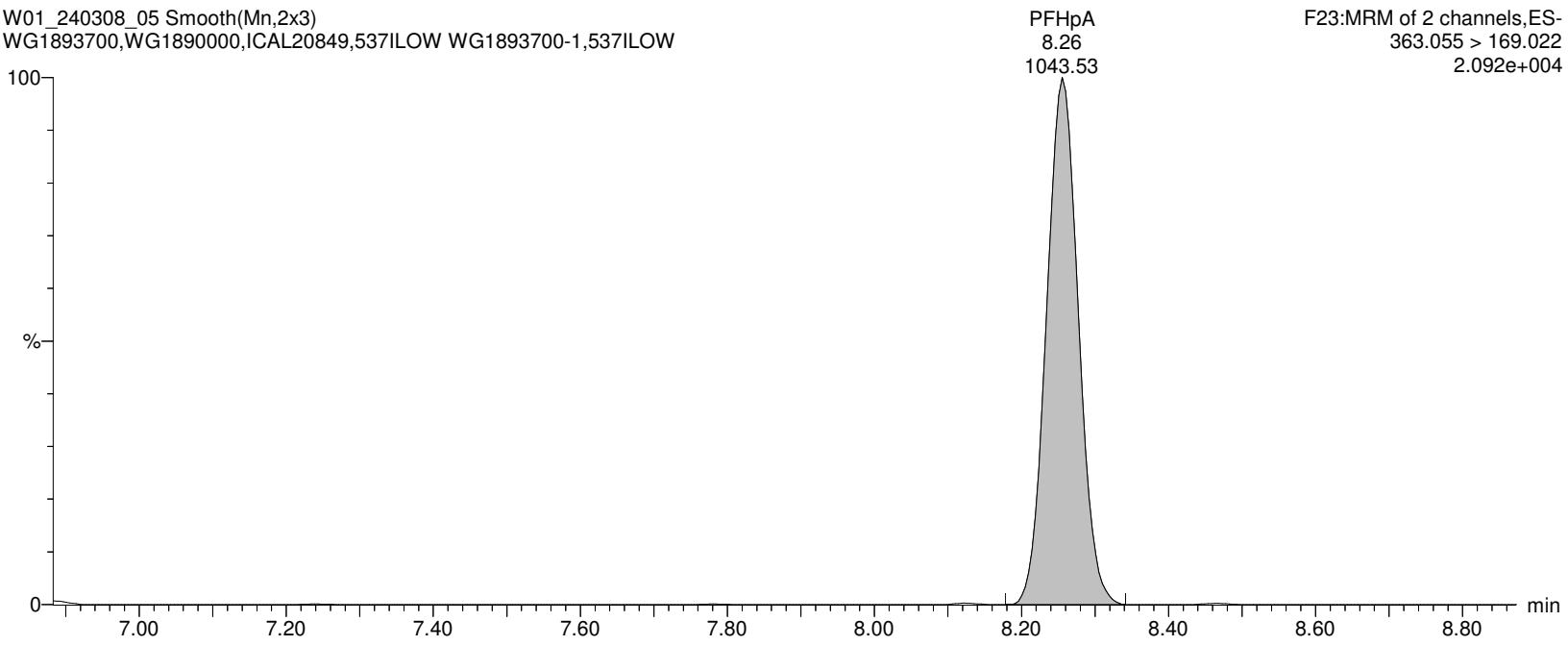

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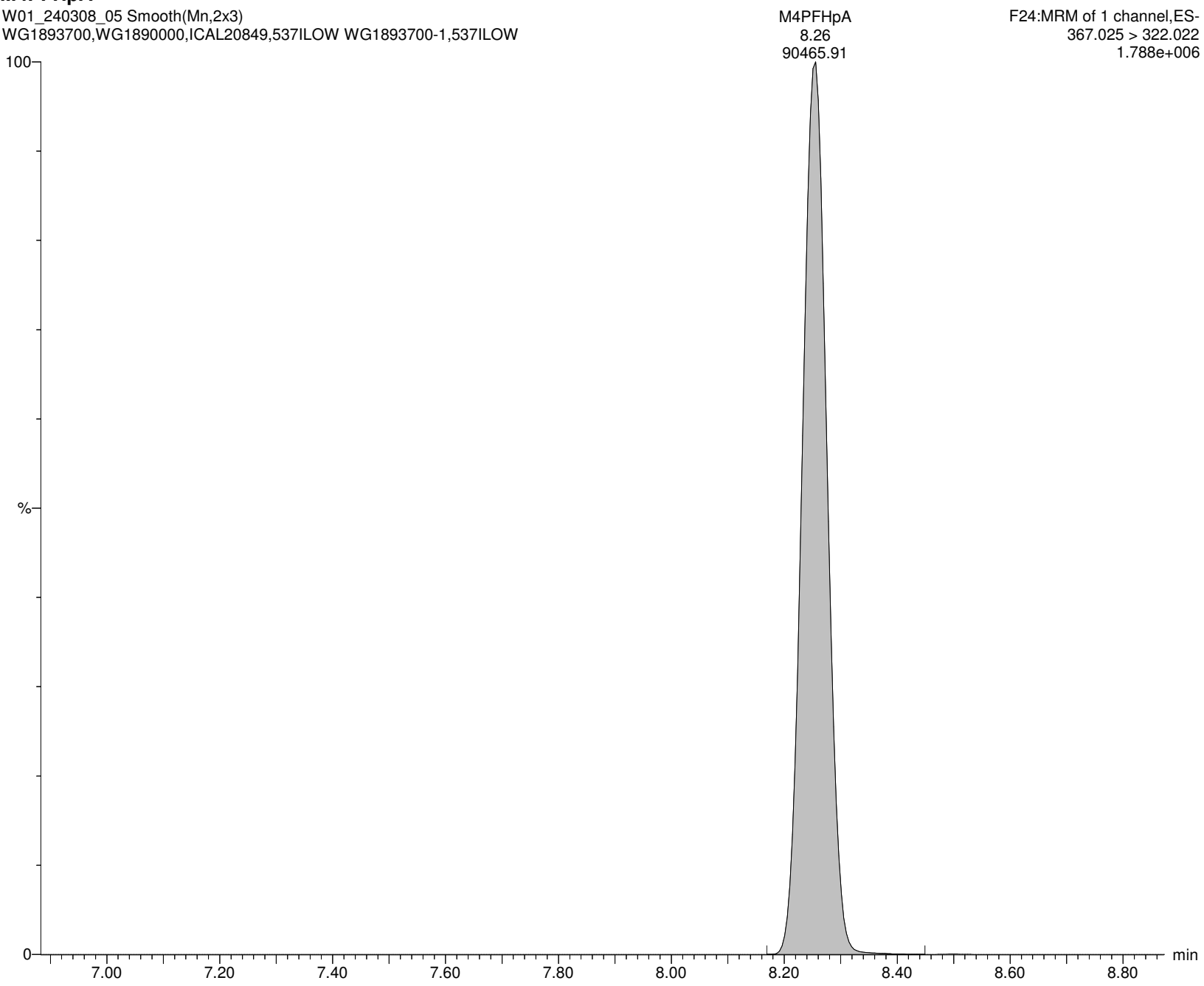

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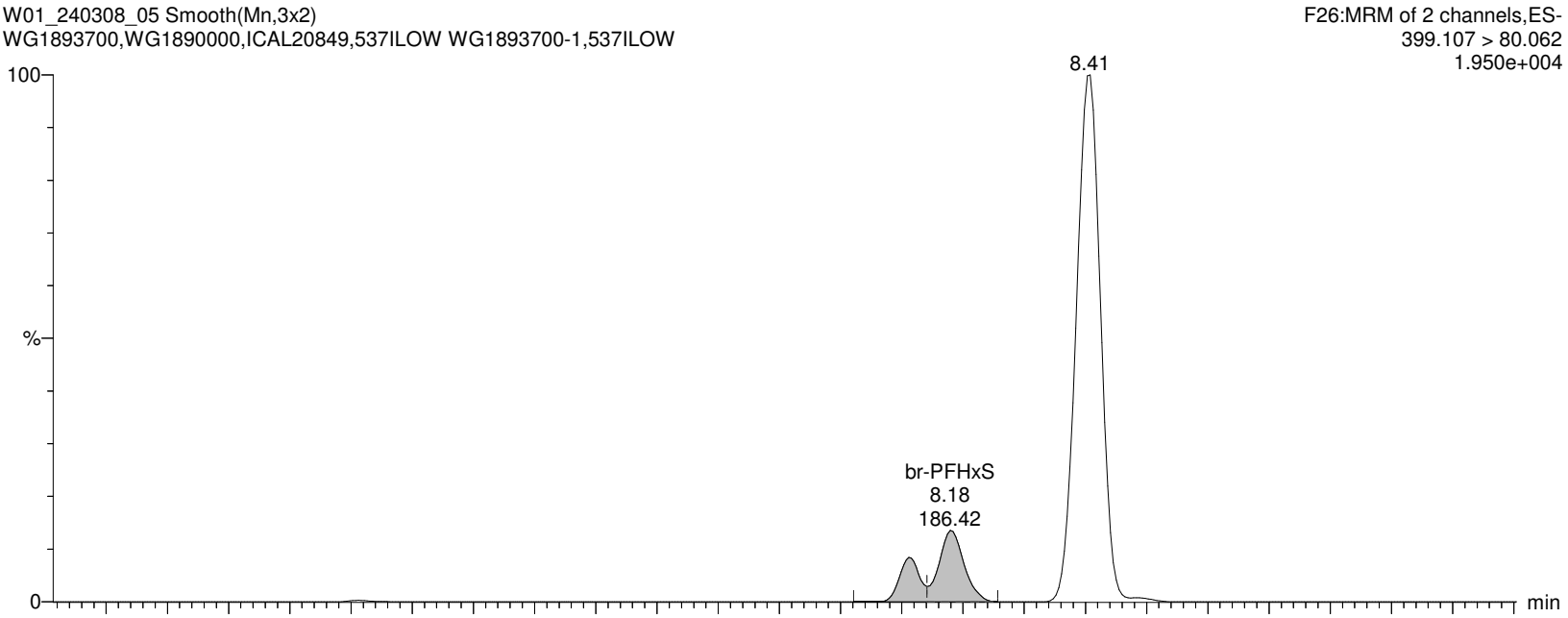

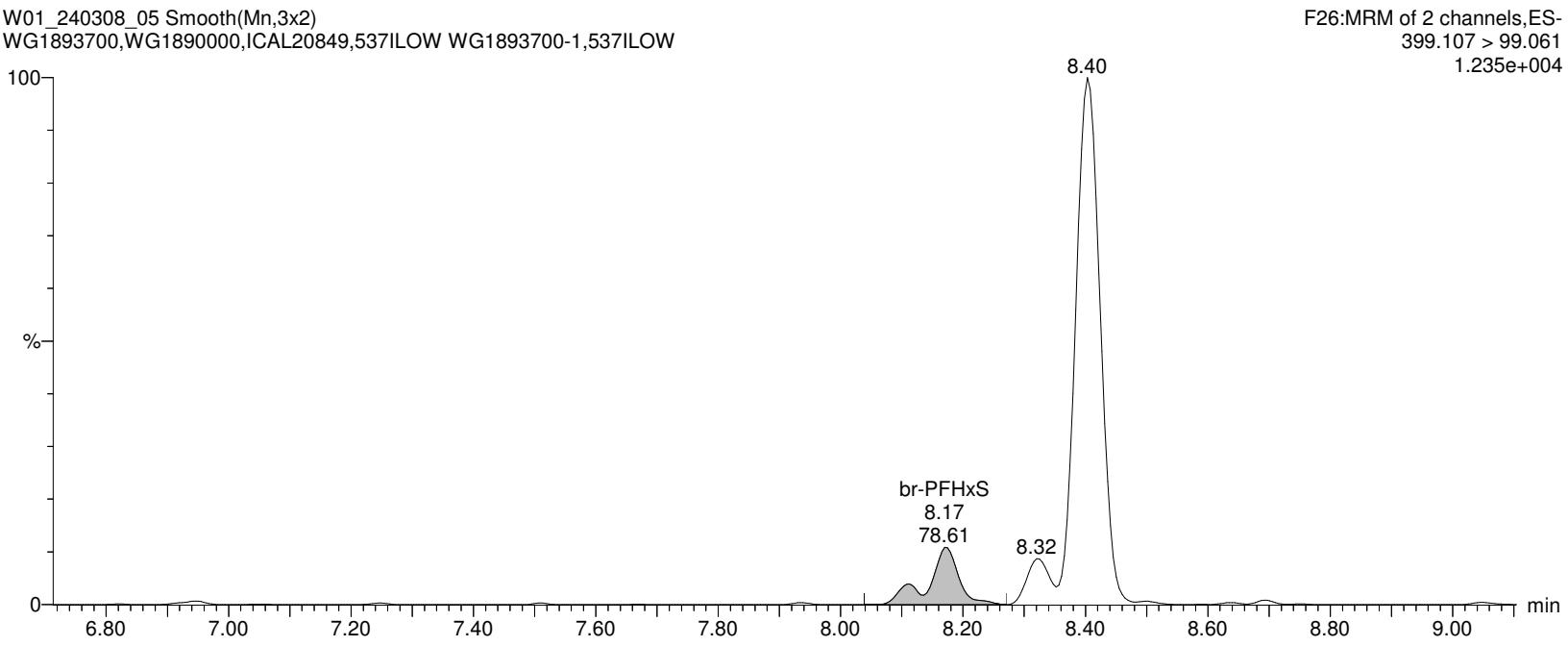

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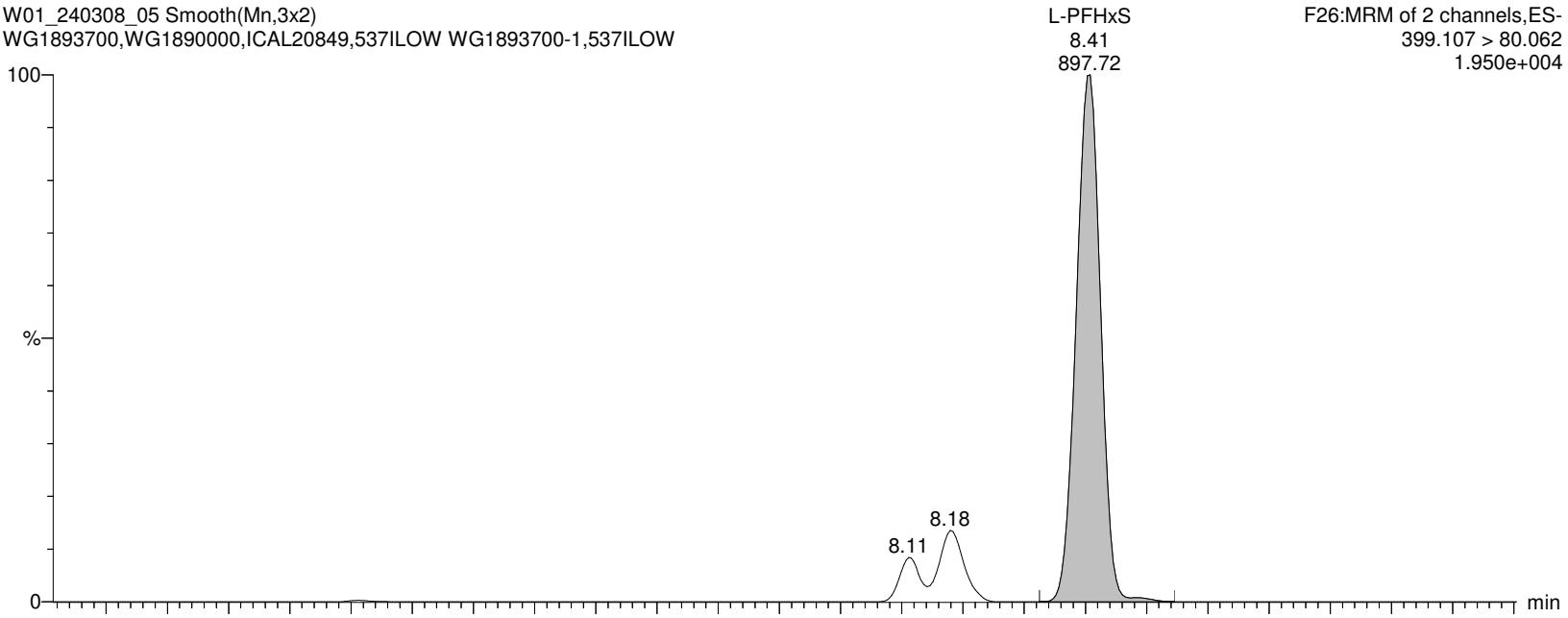
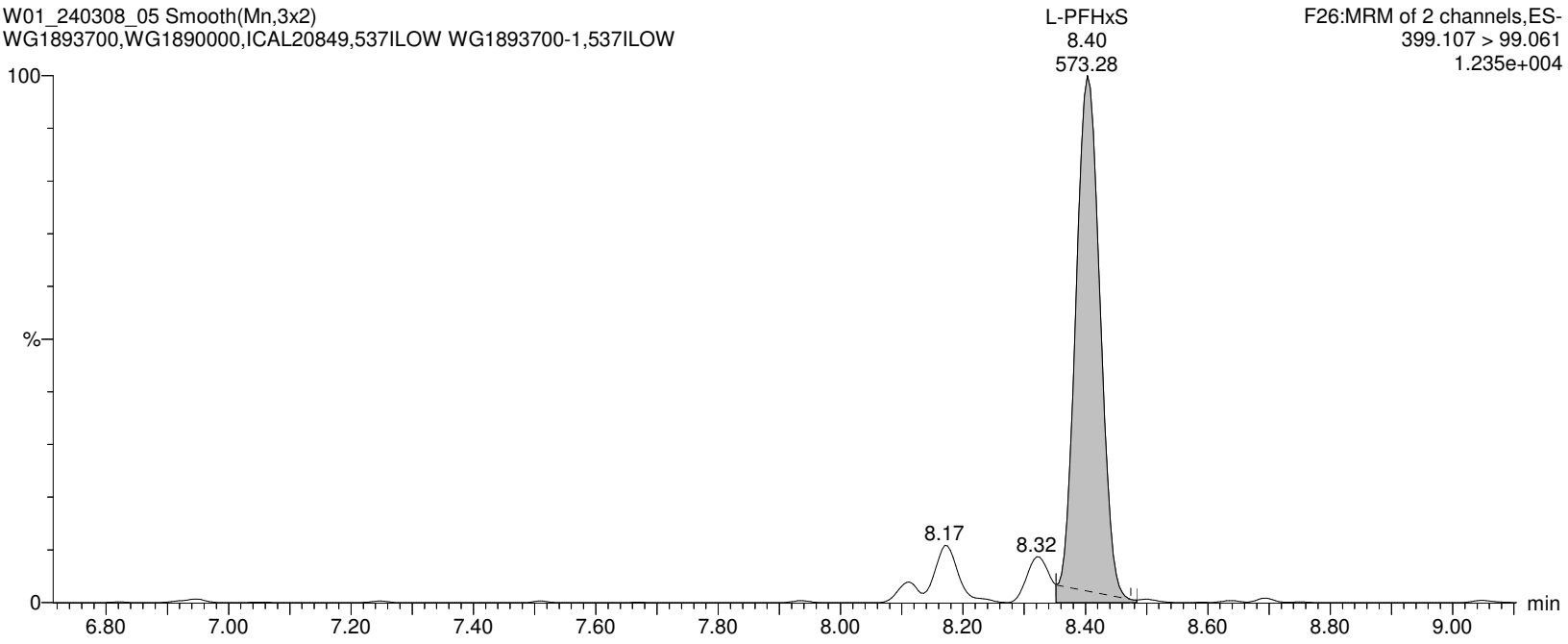
L-PFHxS





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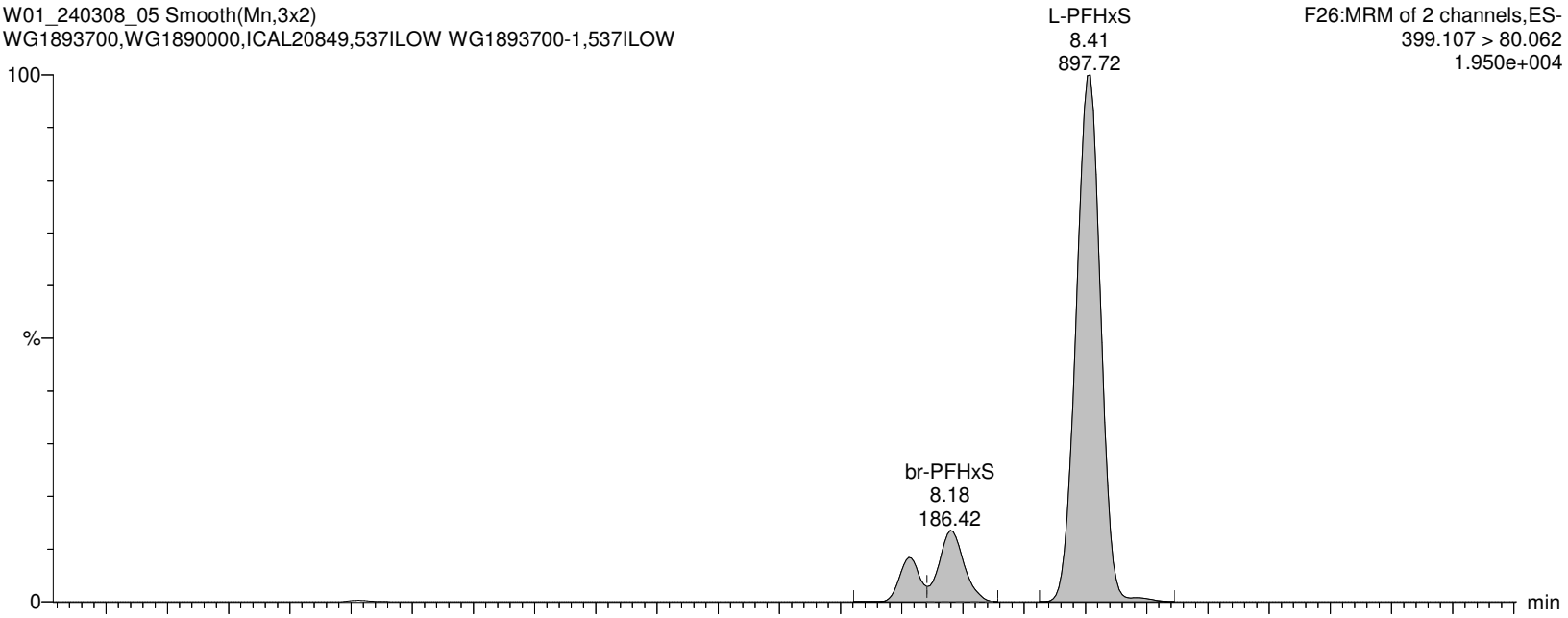

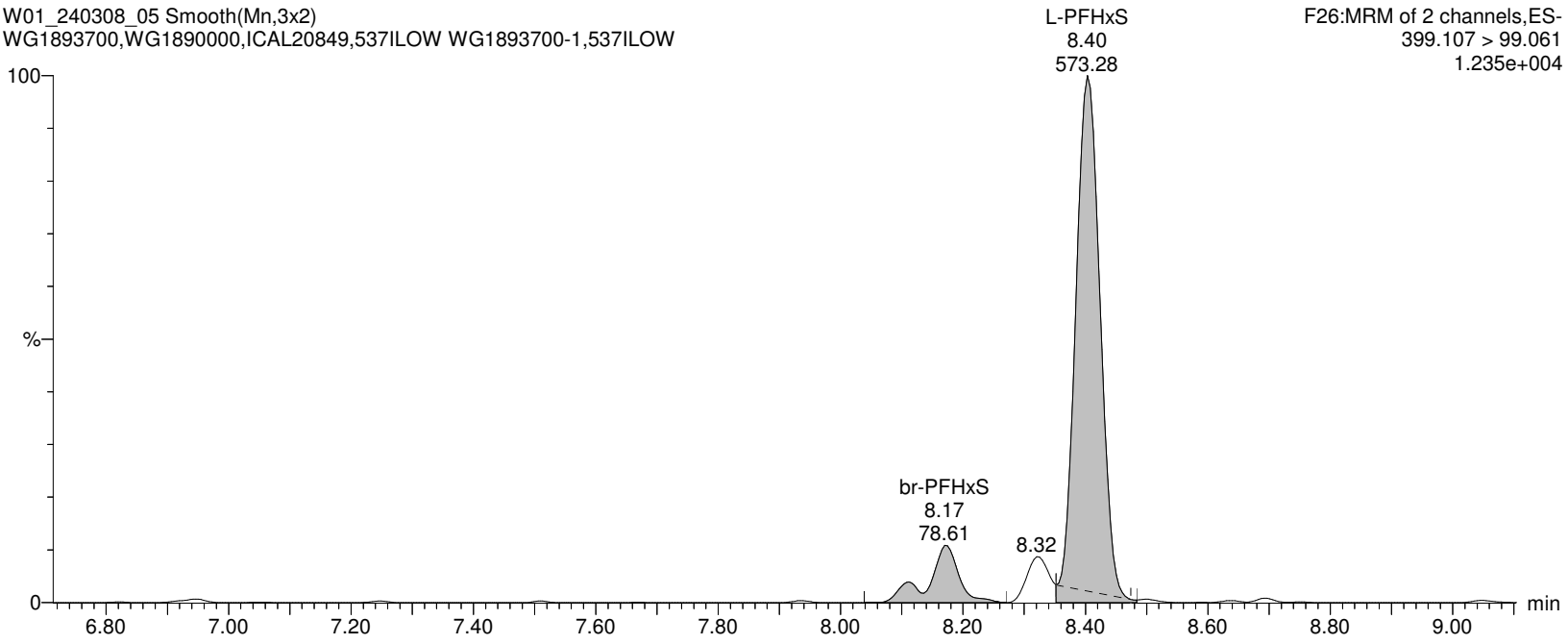

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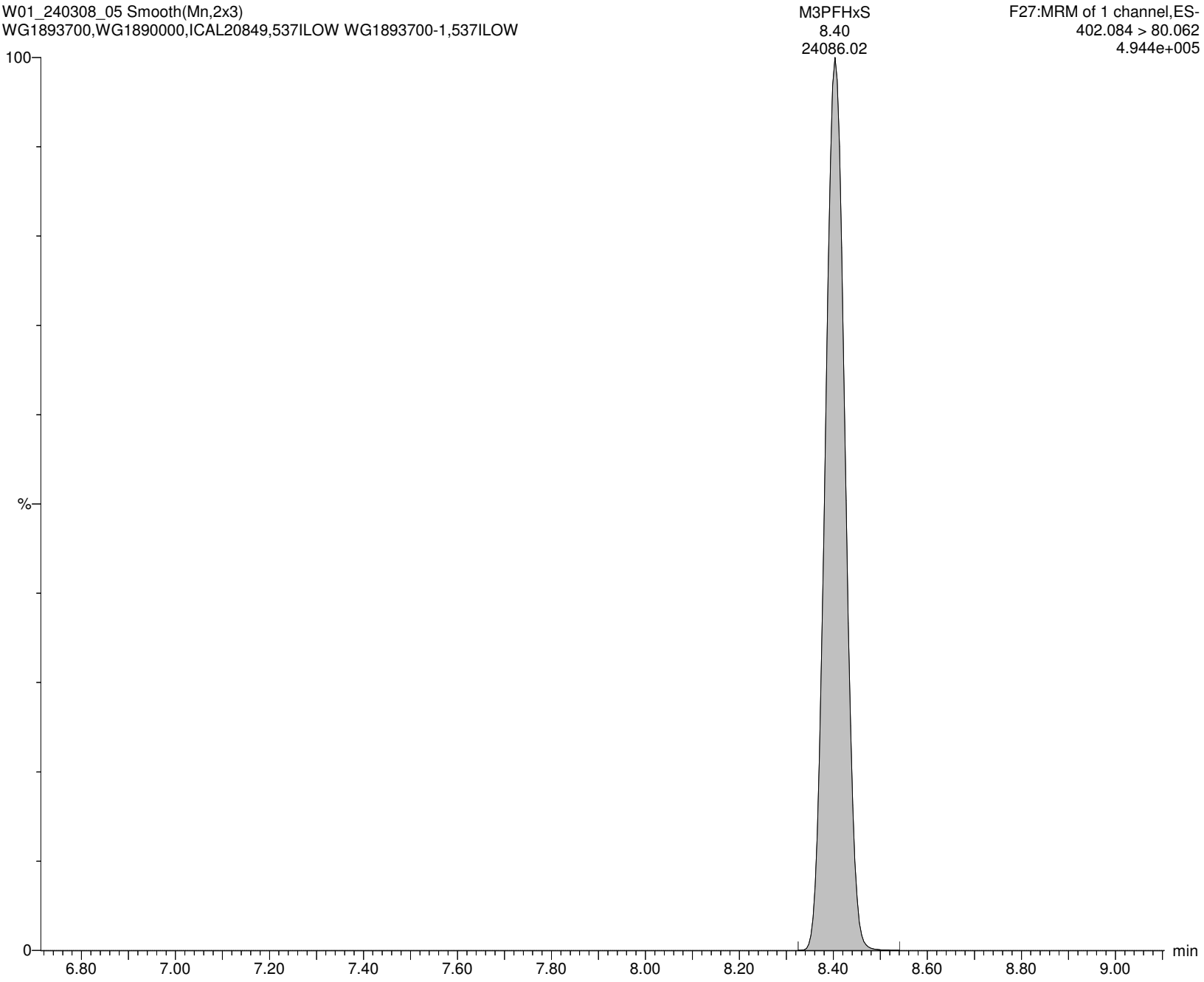

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
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Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
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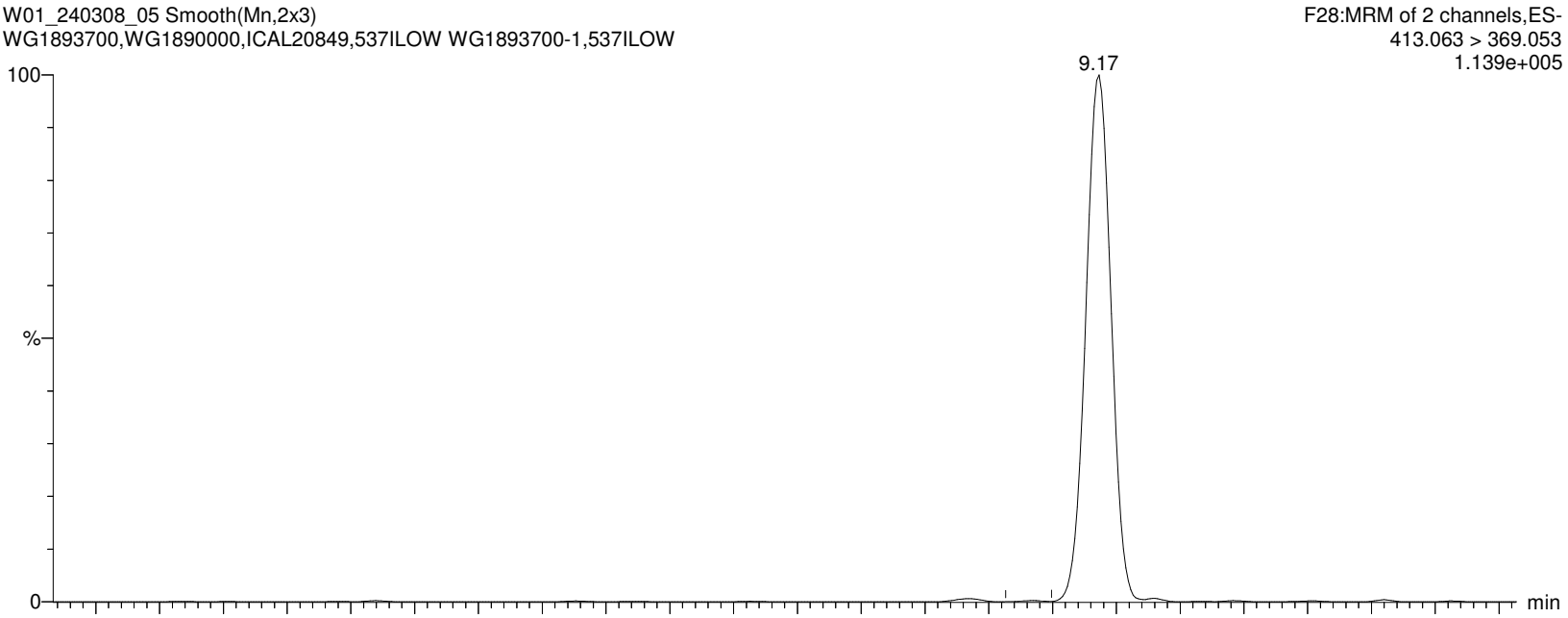

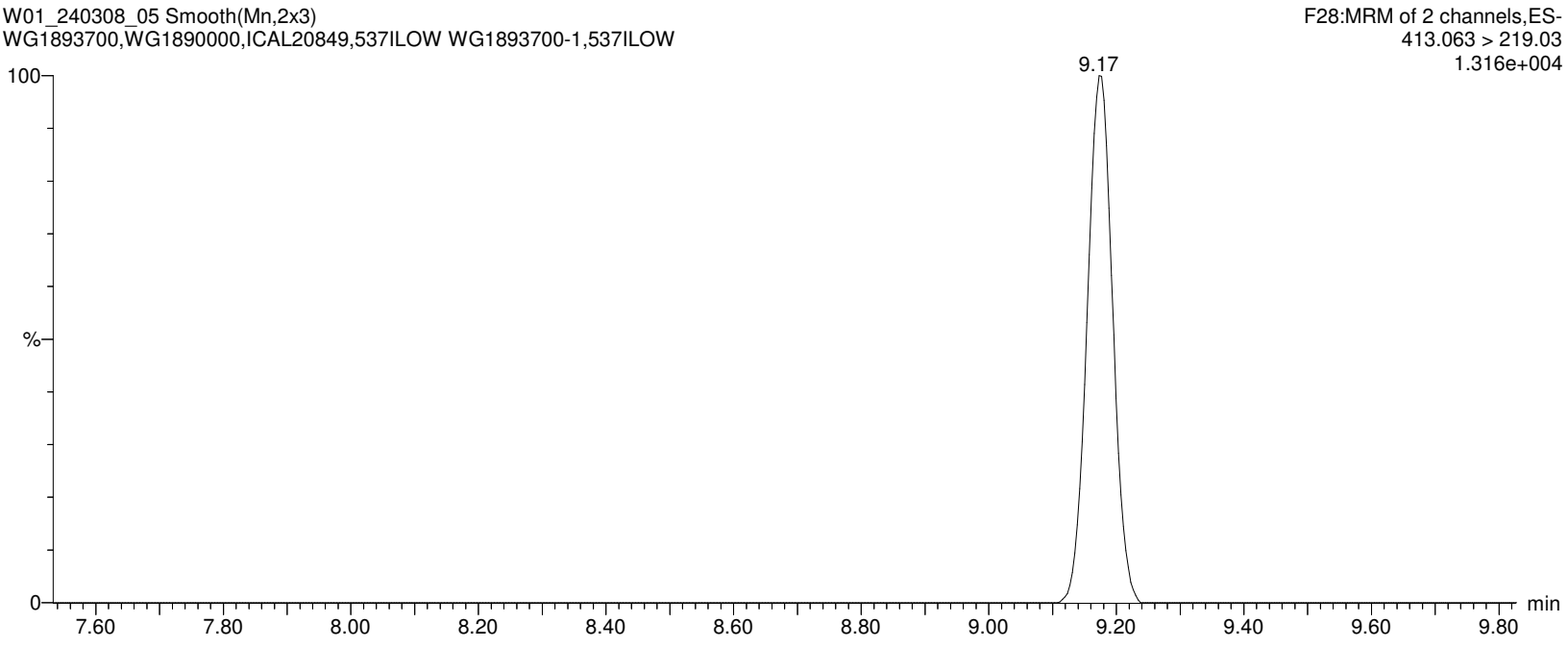

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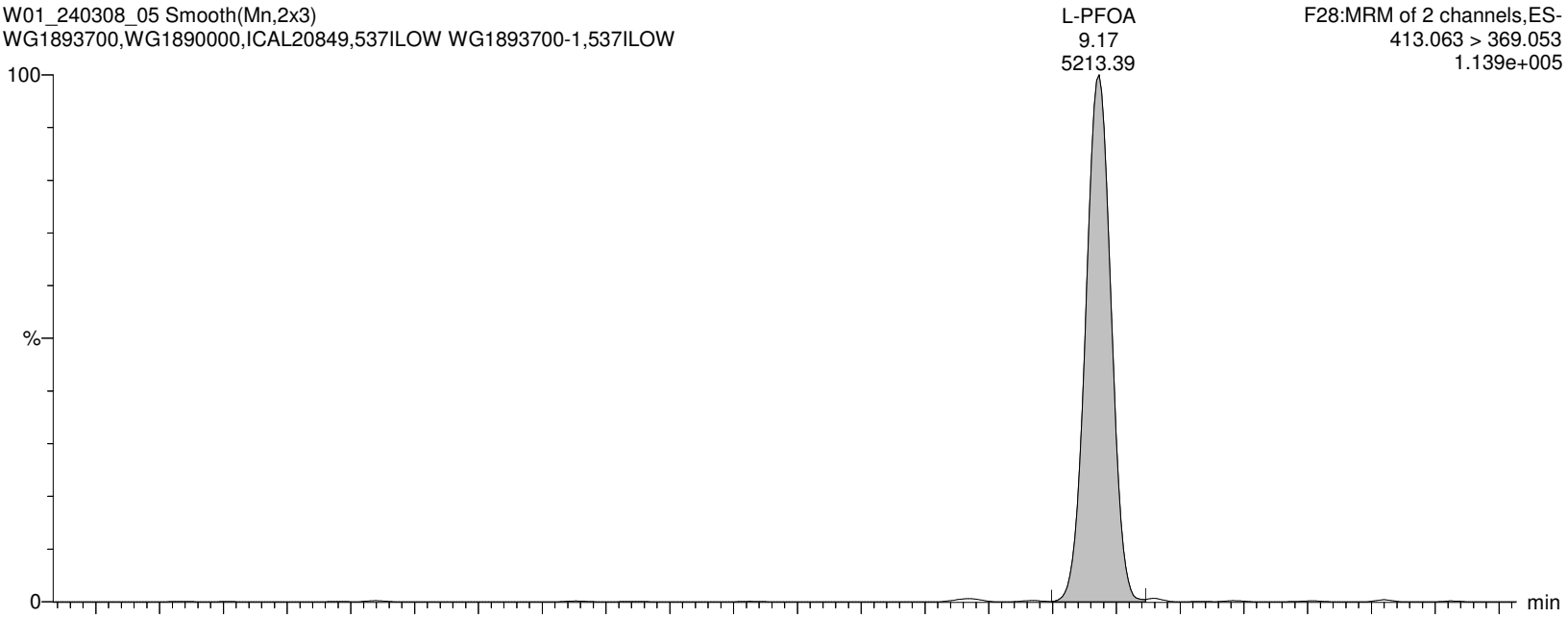

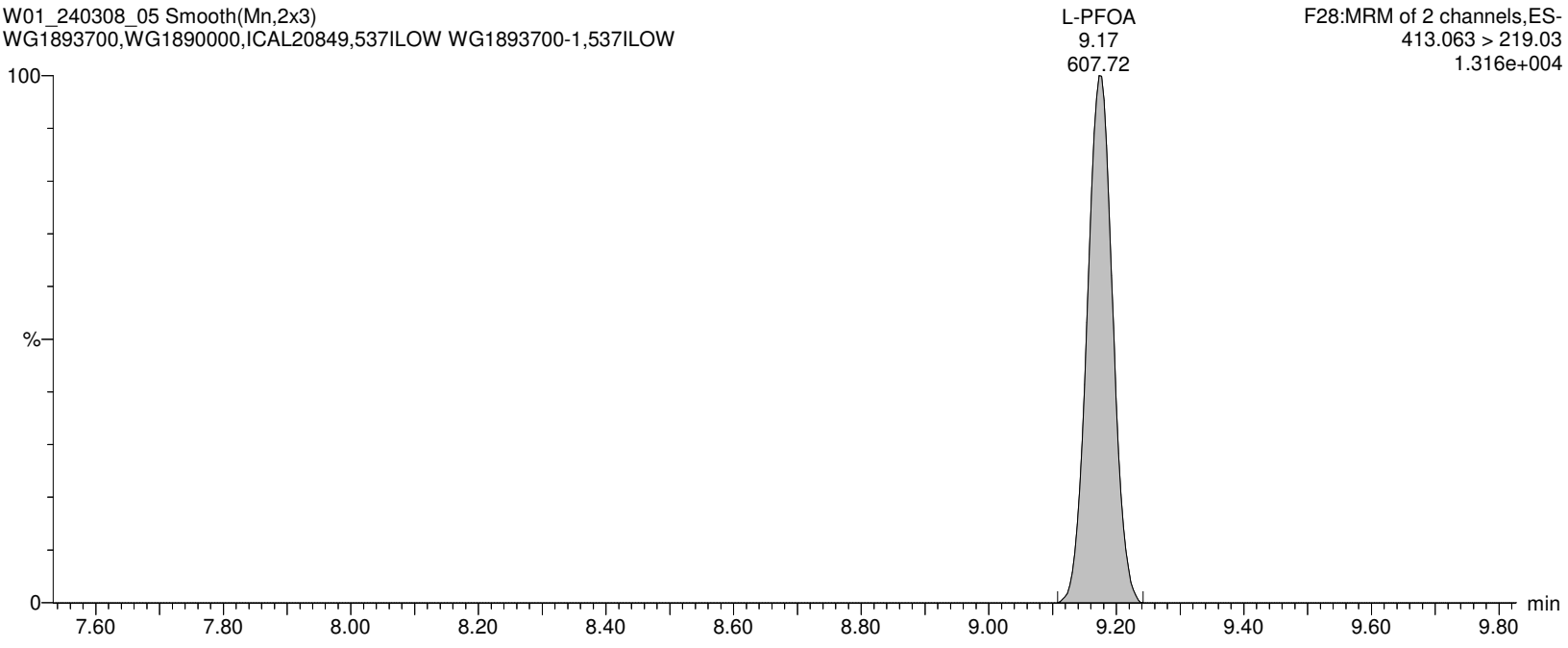

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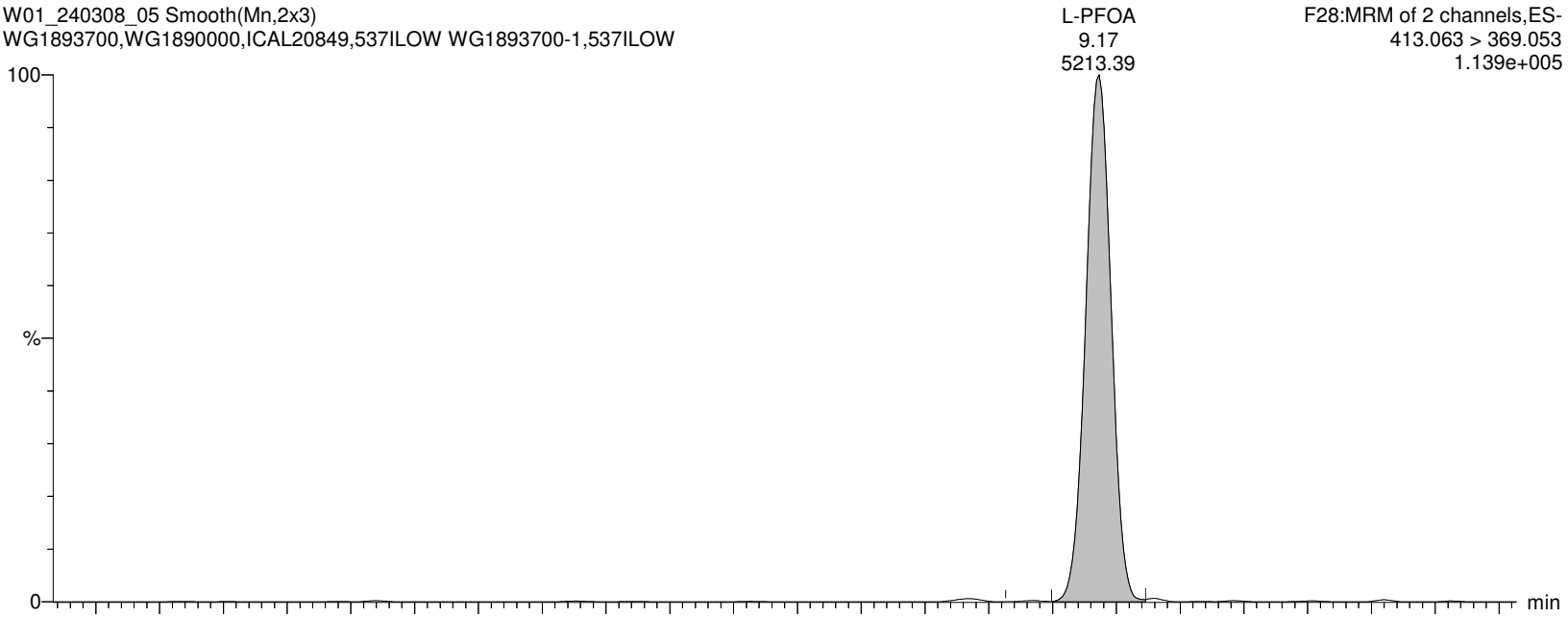

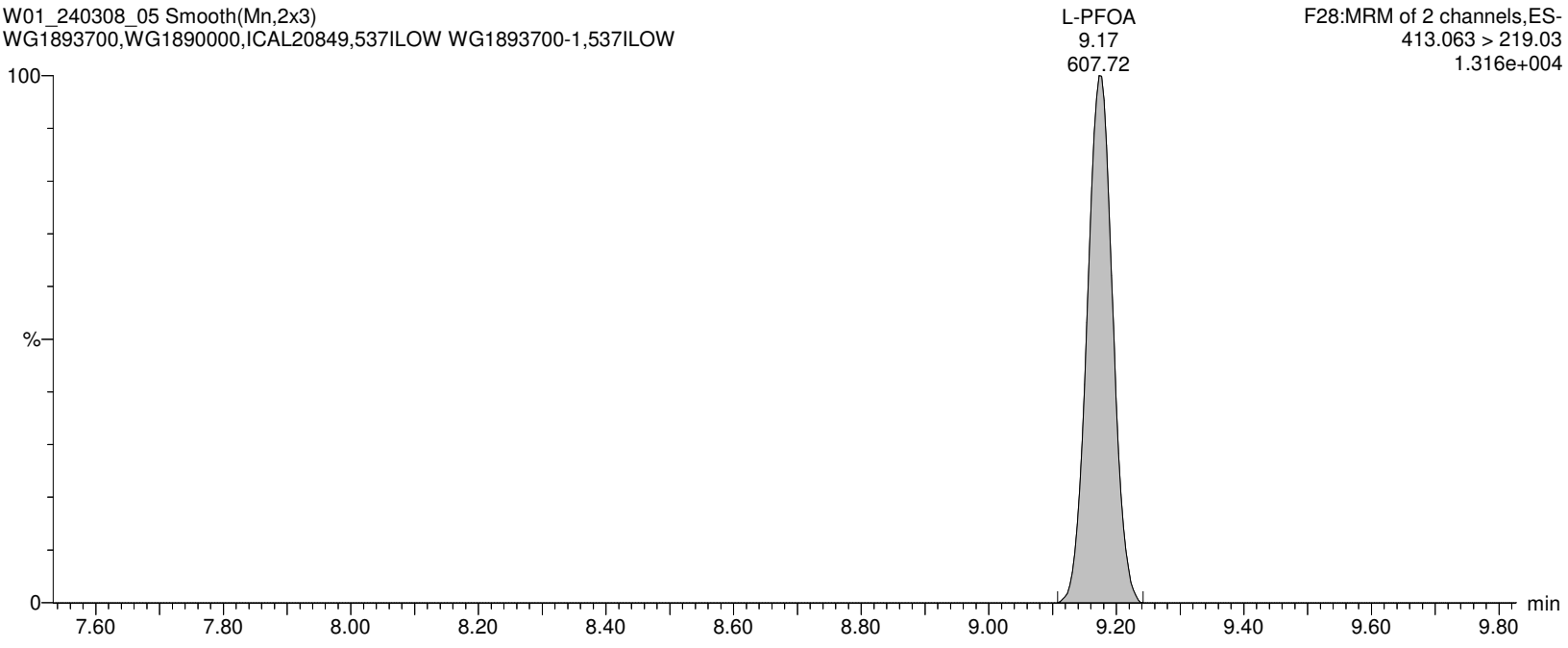

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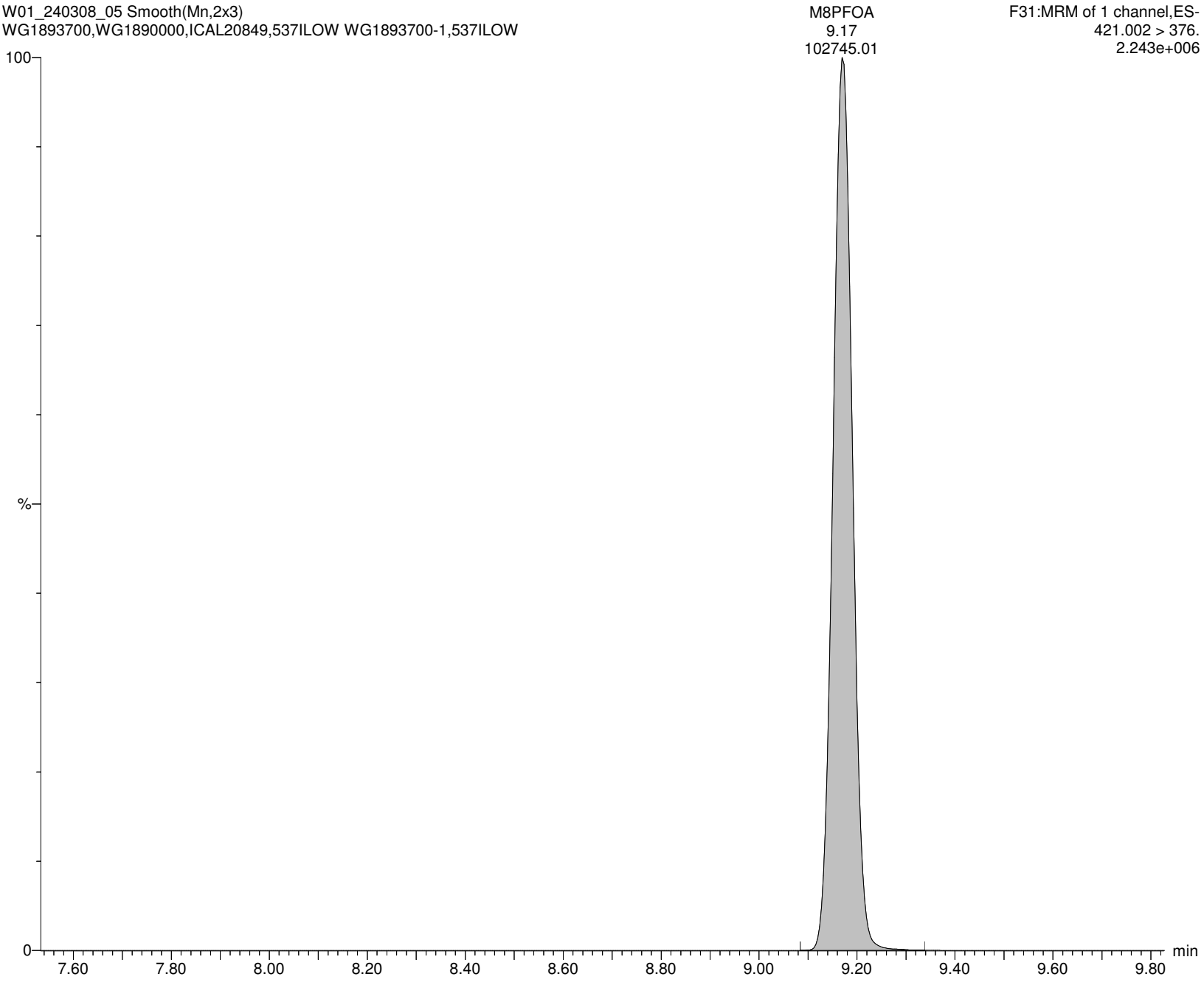

all concentration units in (ng/mL)

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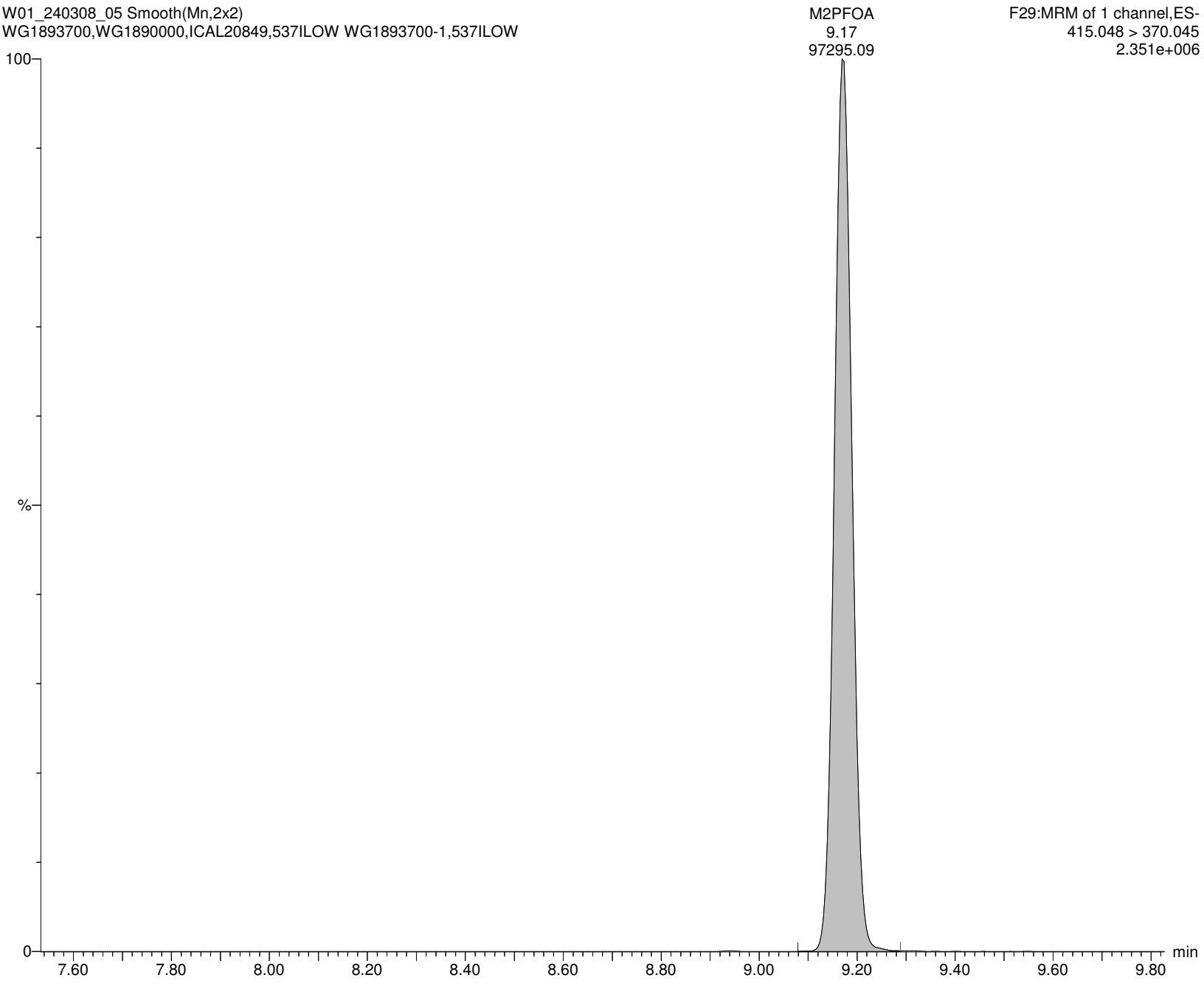

all concentration units in (ng/mL)

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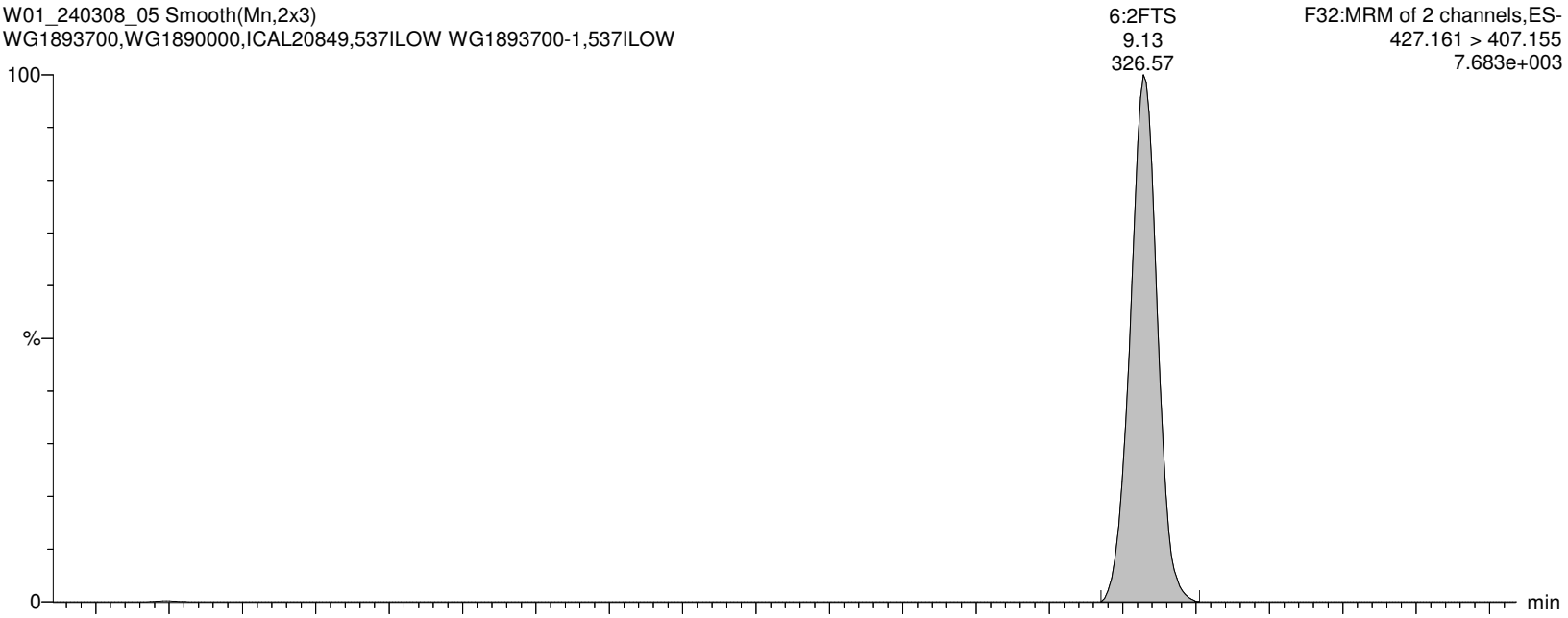

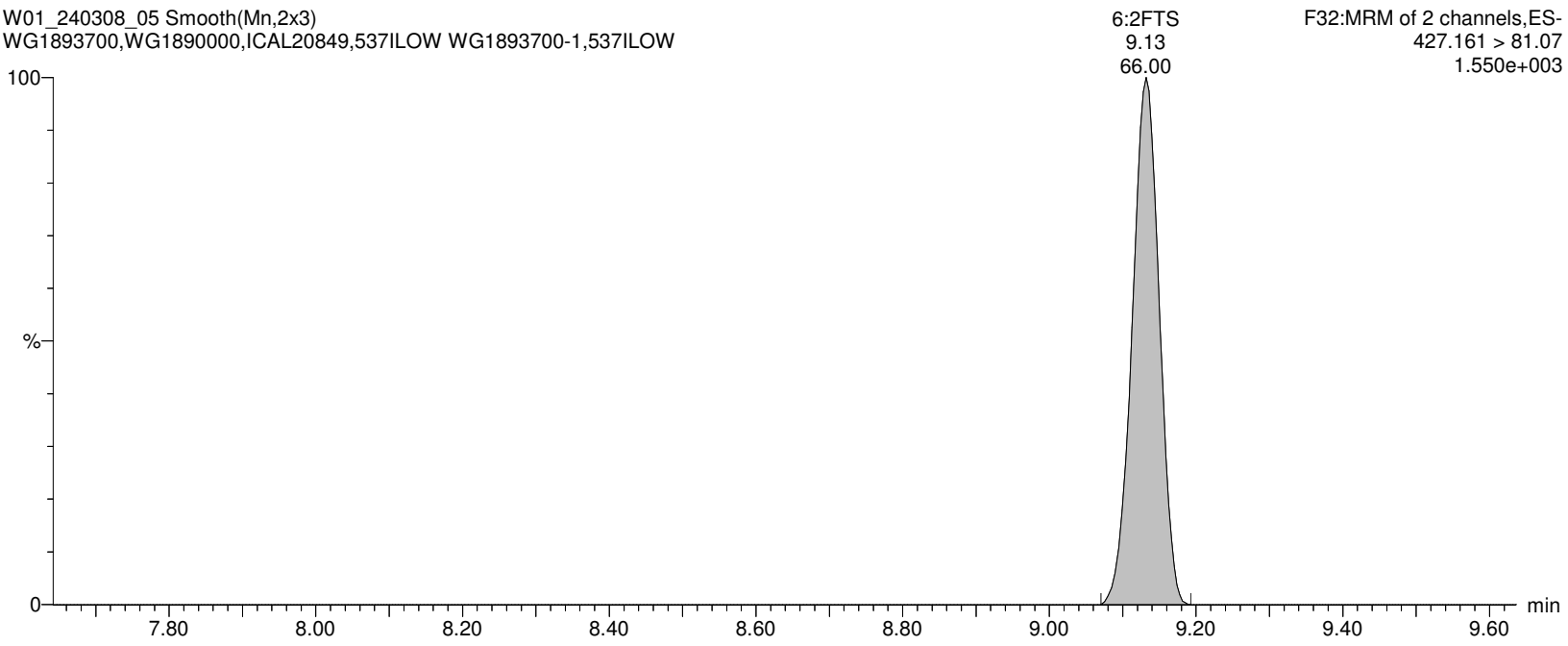

all concentration units in (ng/mL)

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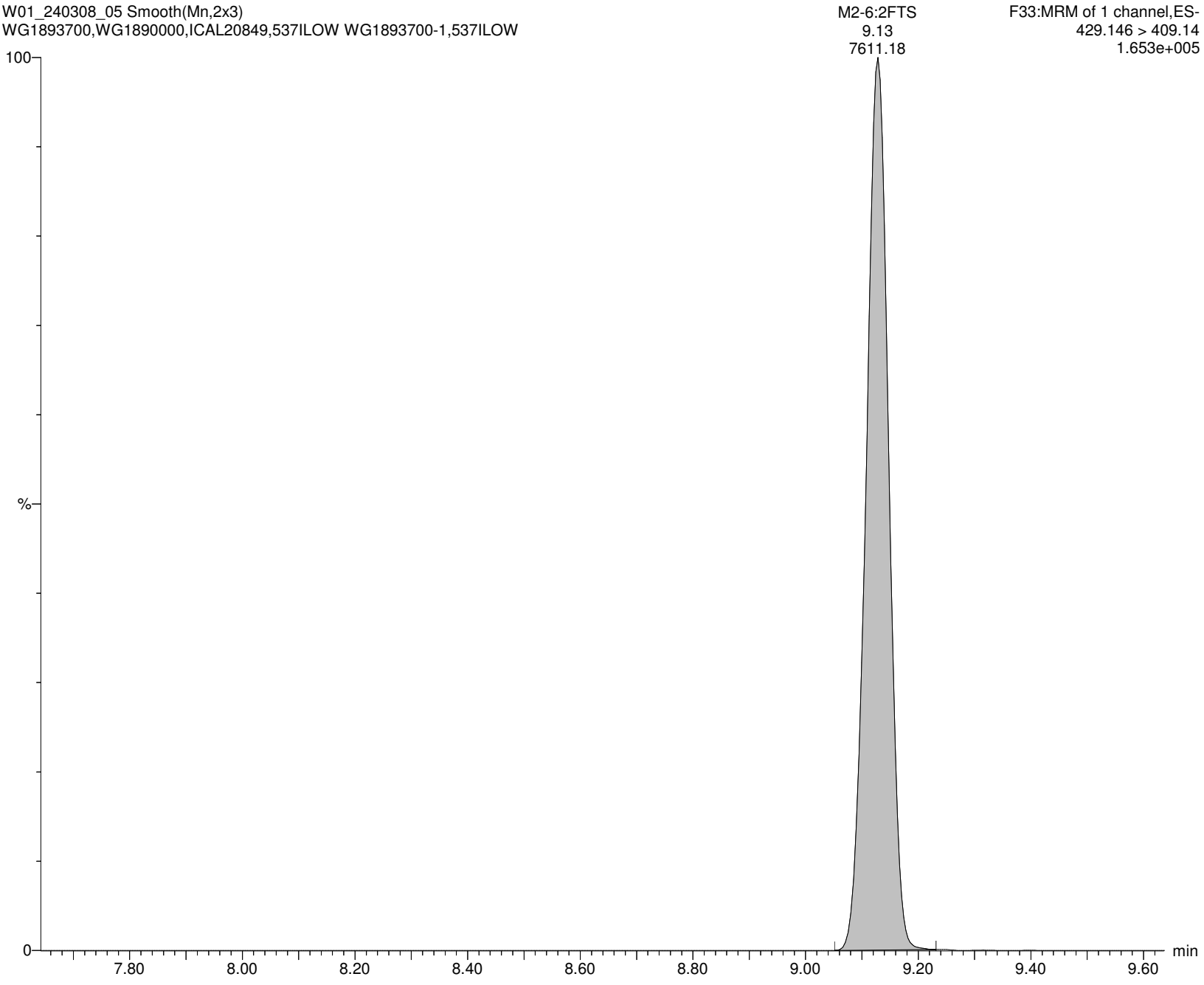

all concentration units in (ng/mL)

Alpha Analytical Inc.
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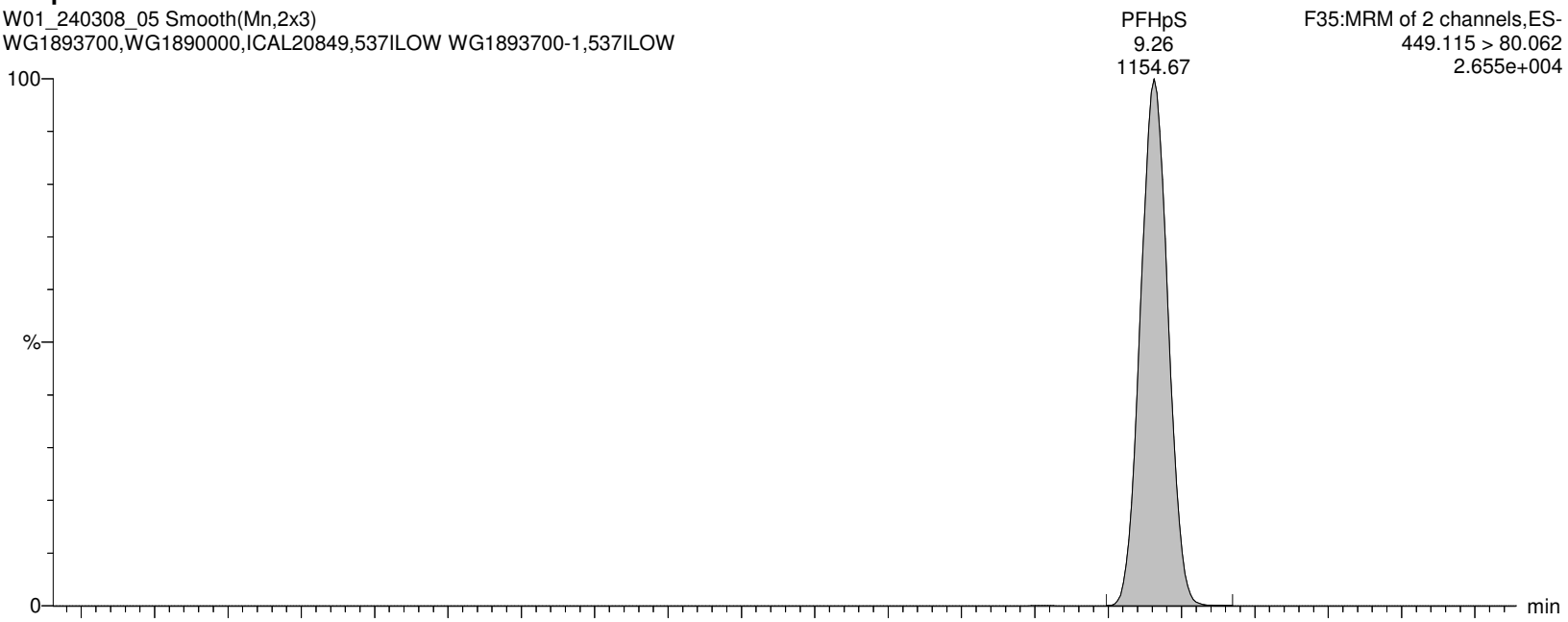

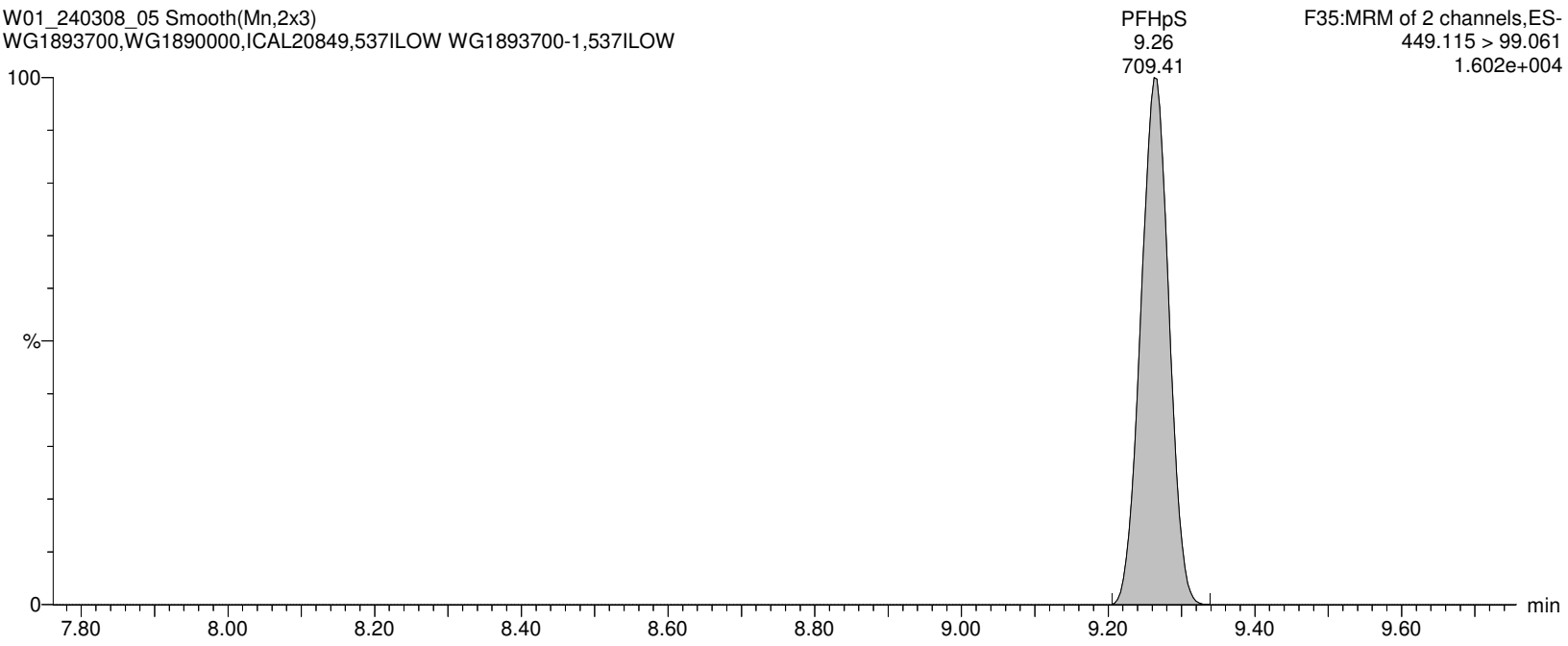

all concentration units in (ng/mL)

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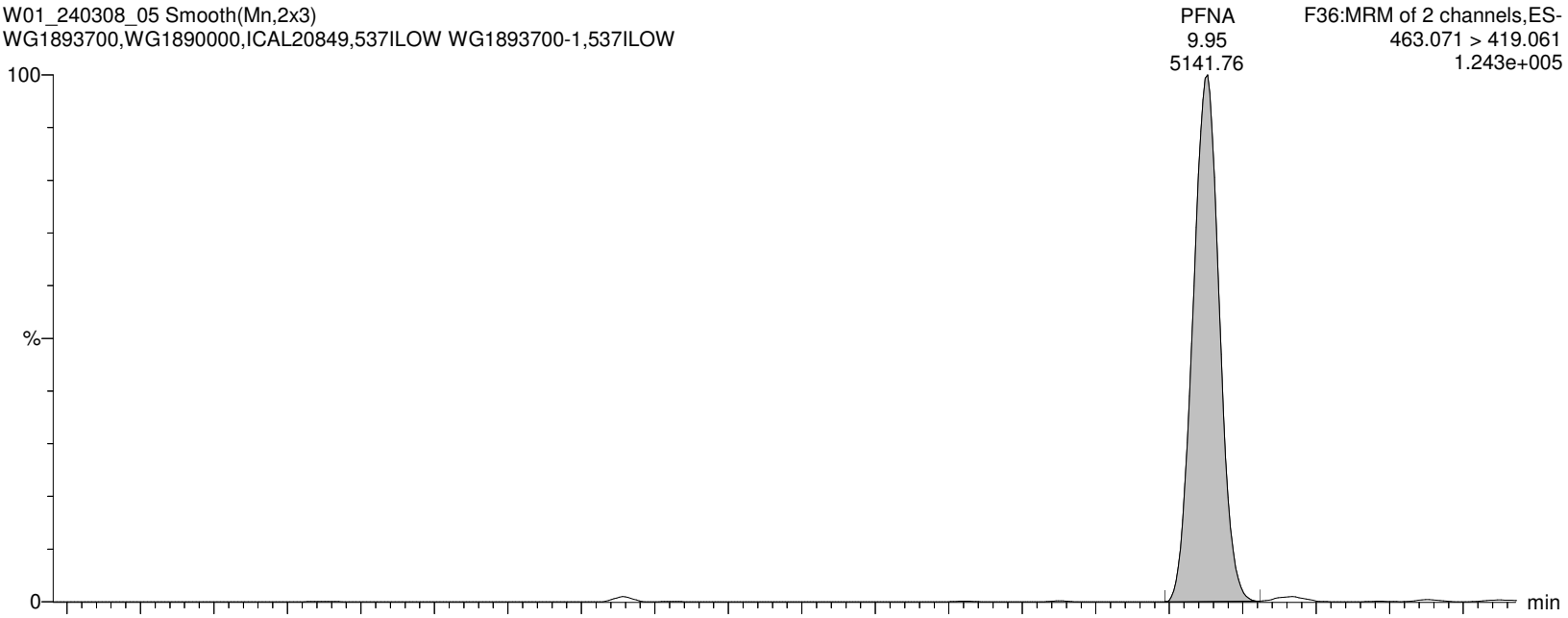

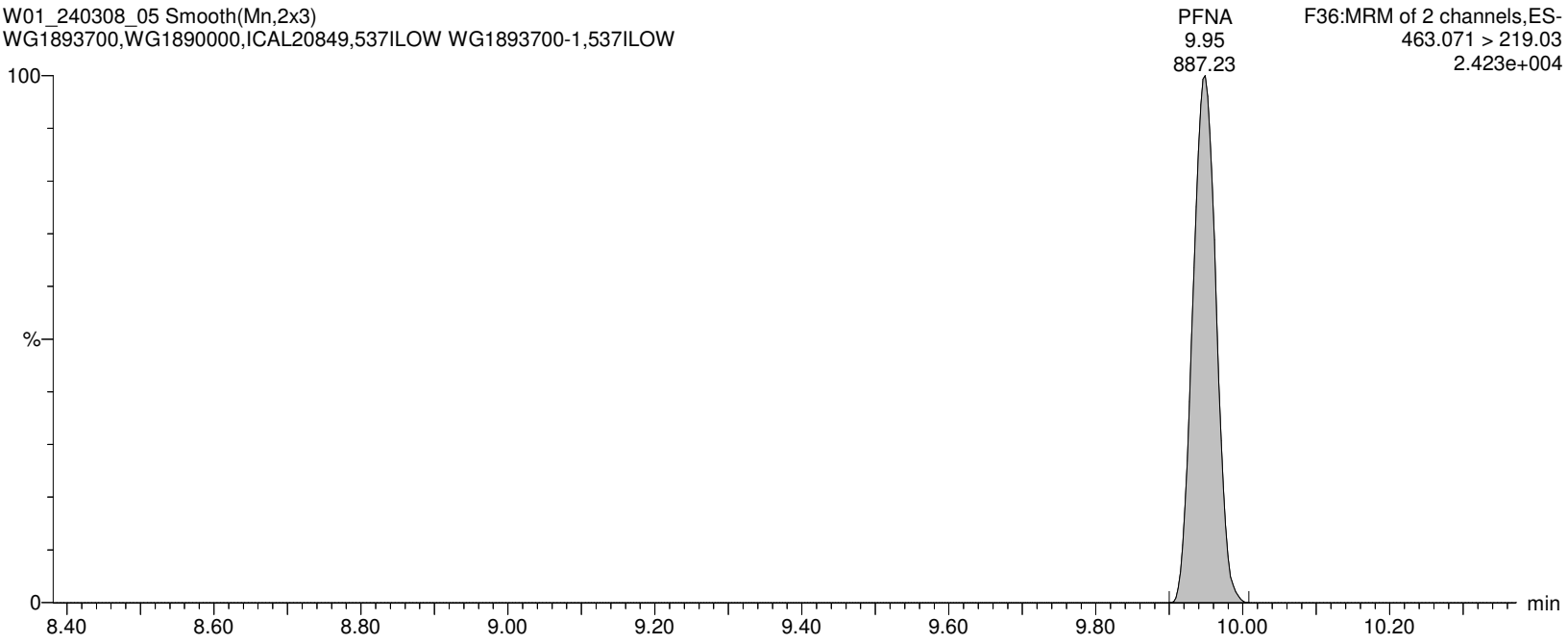

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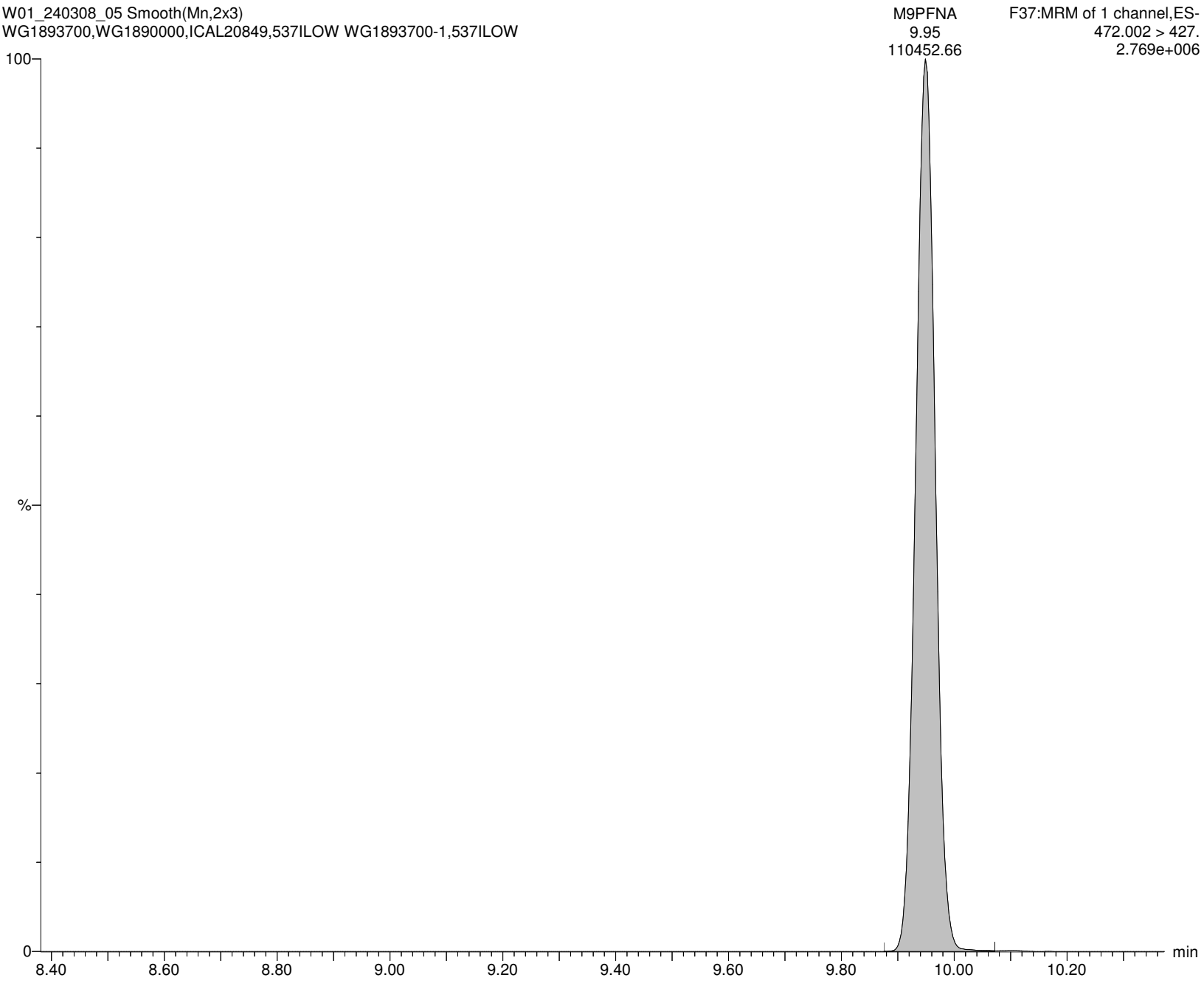

all concentration units in (ng/mL)

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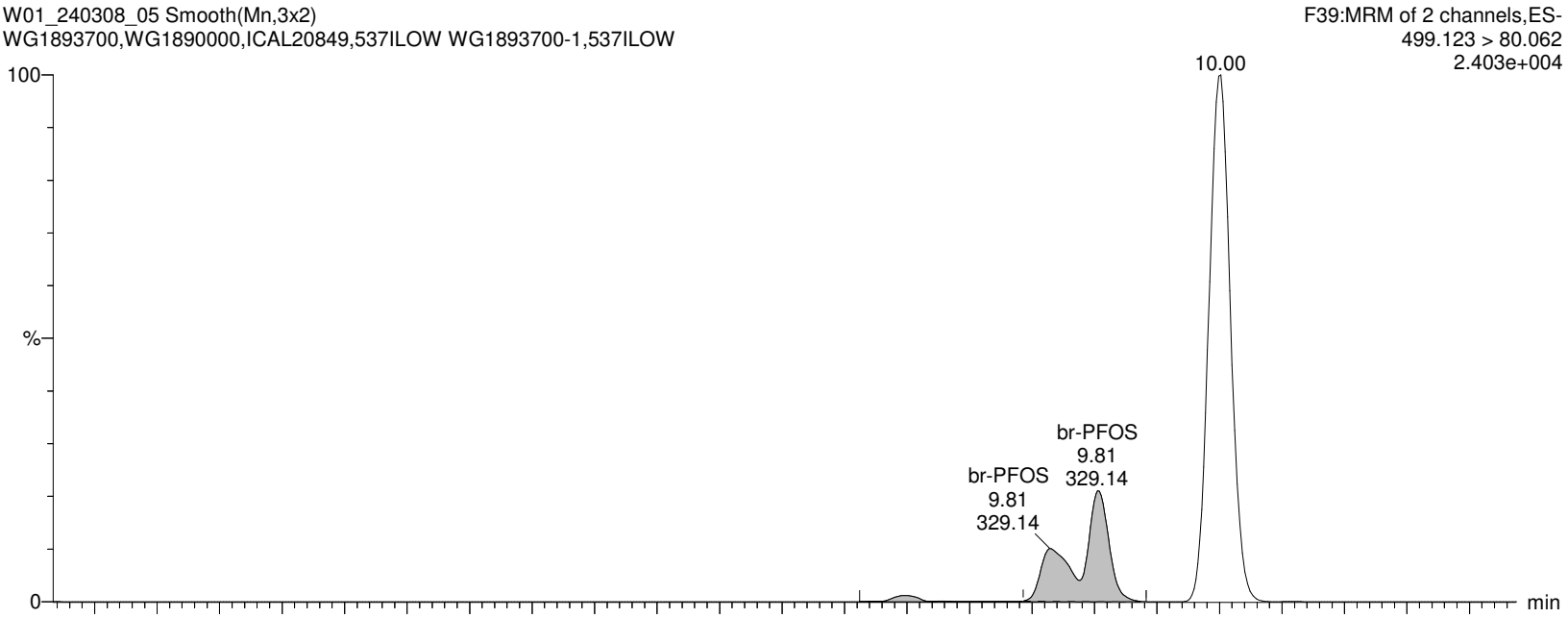

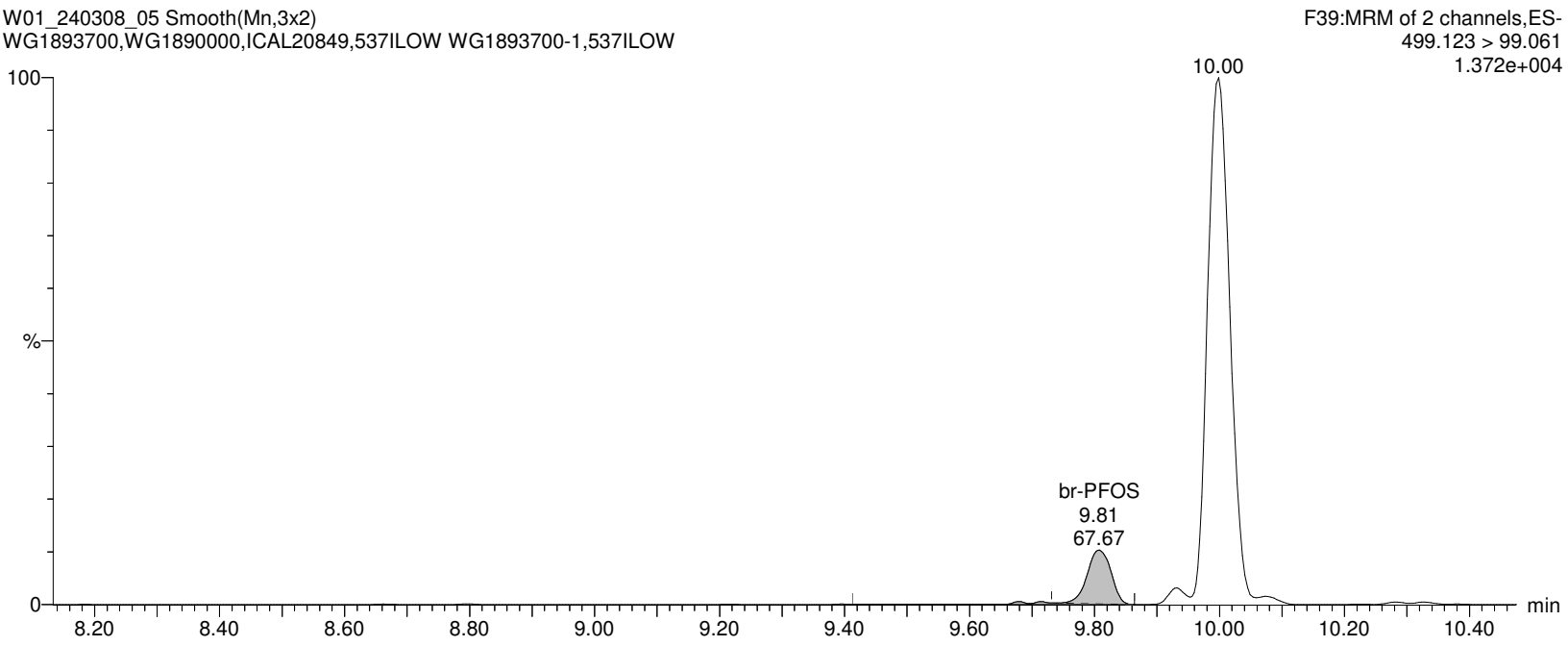

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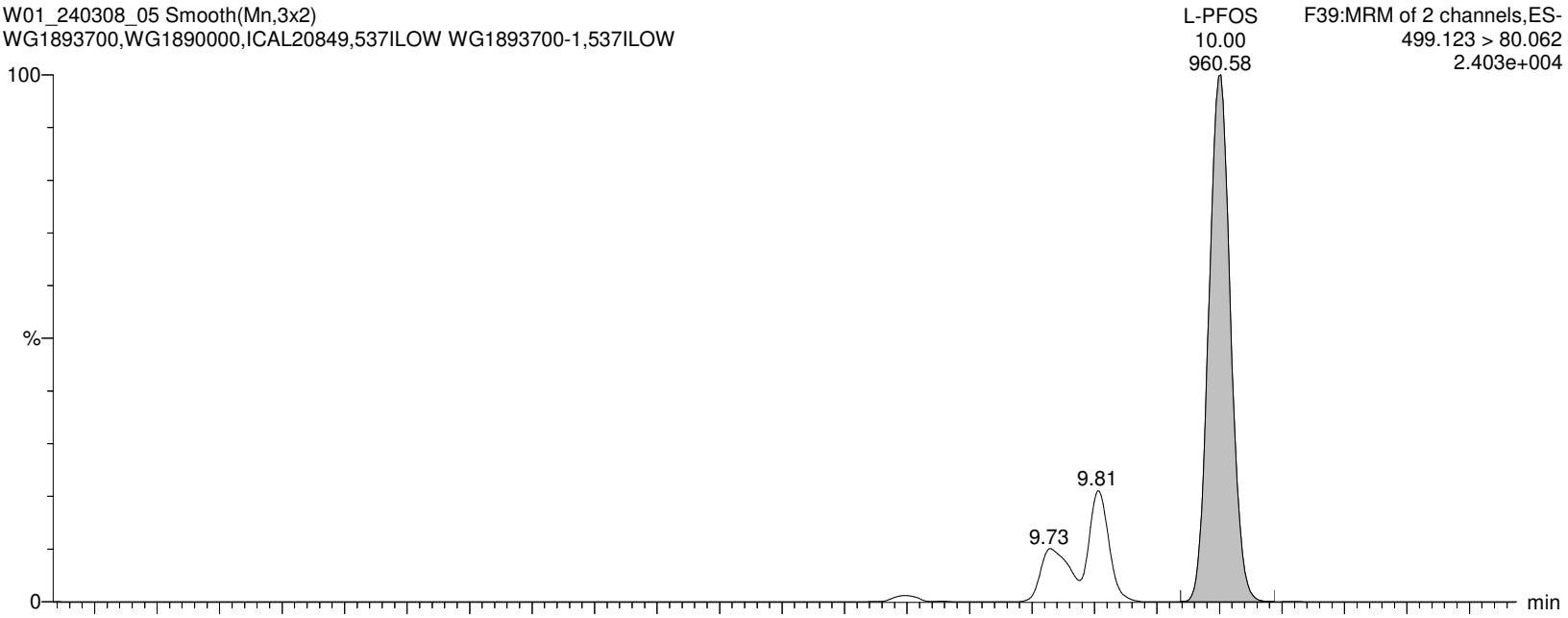
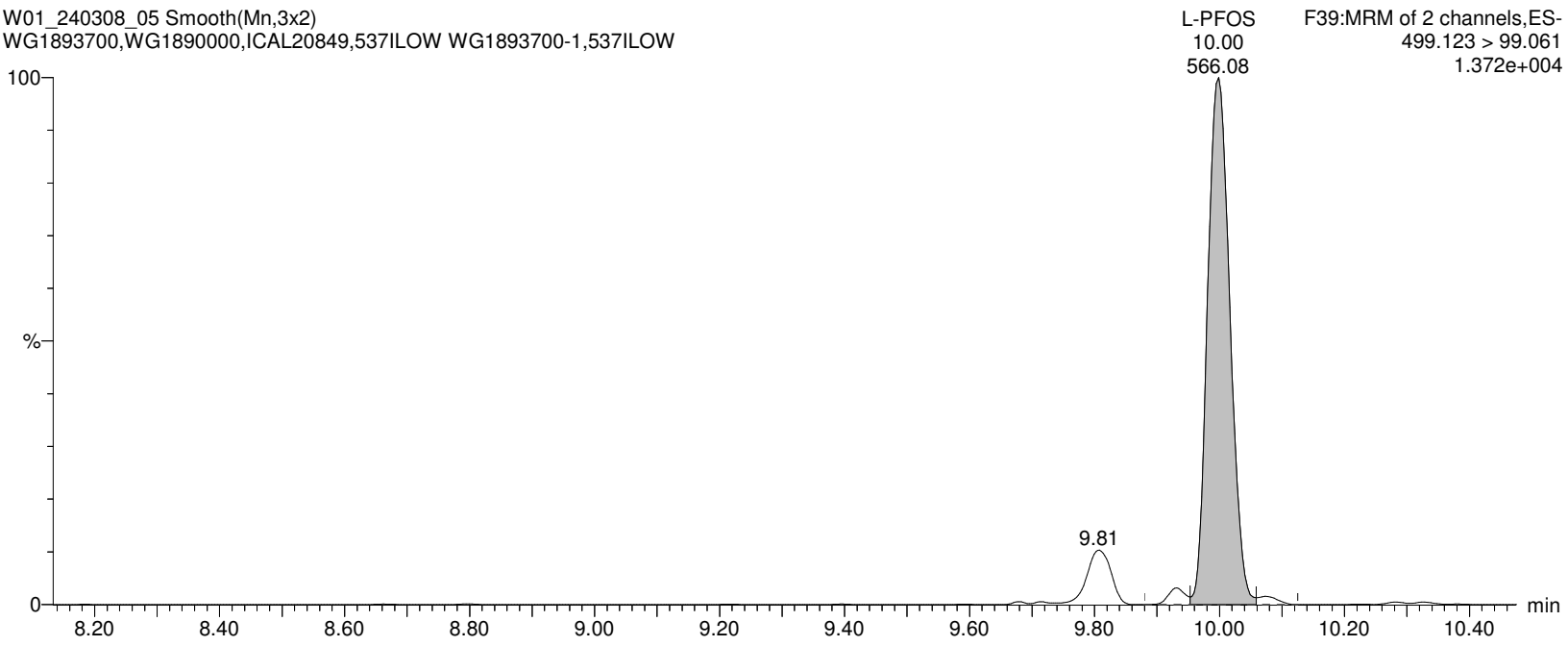
L-PFOS





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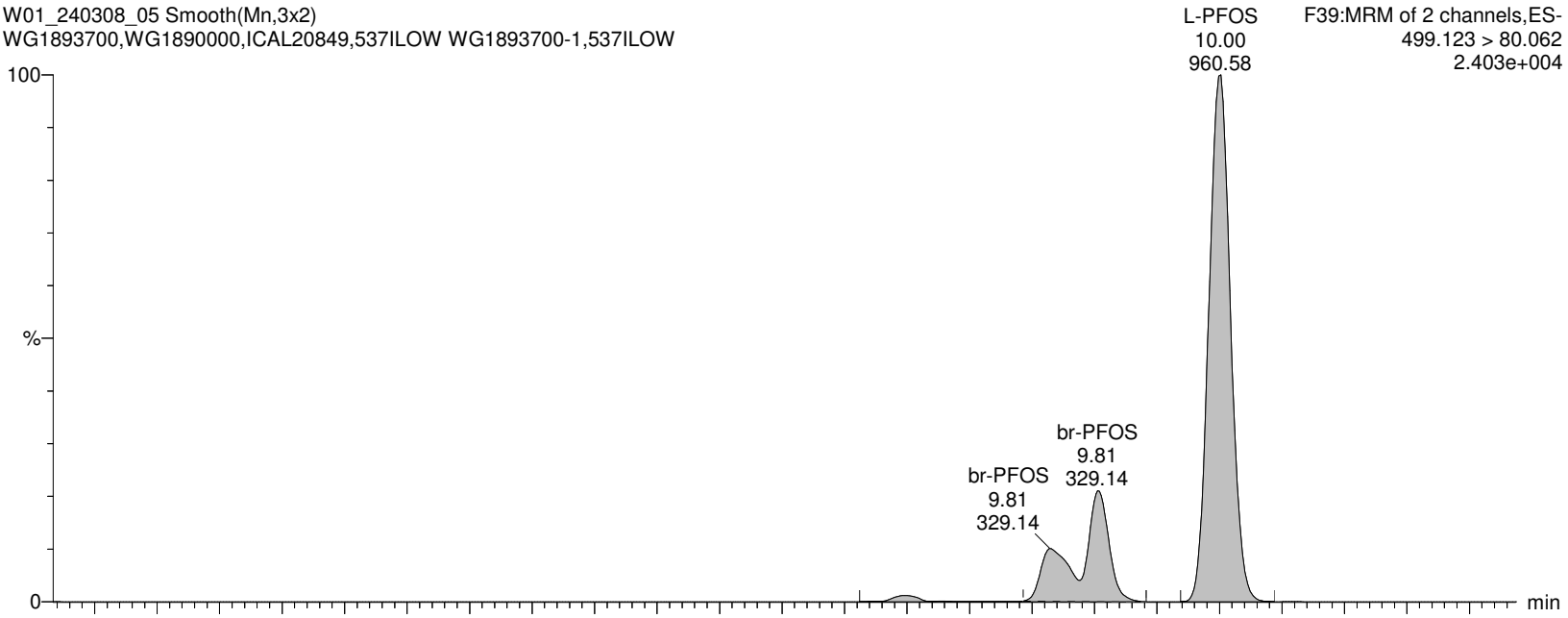
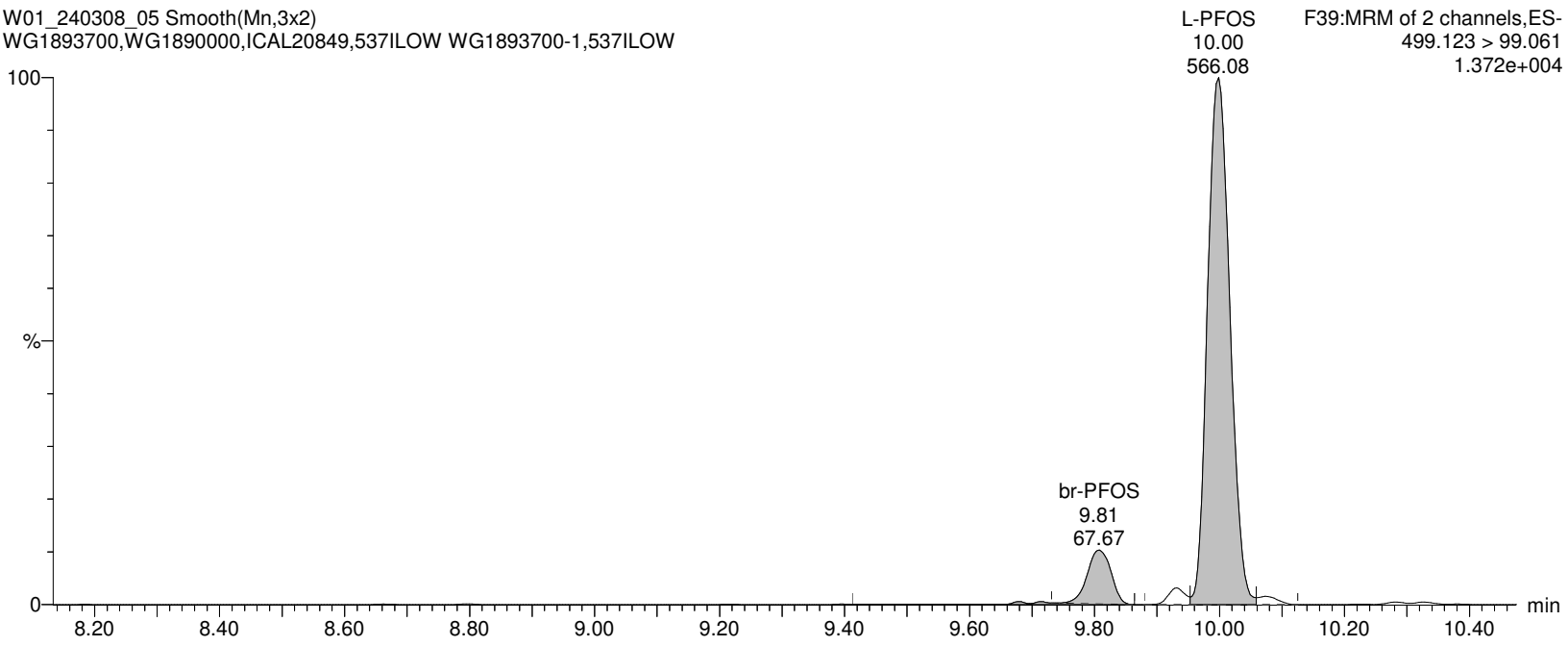
PFOS





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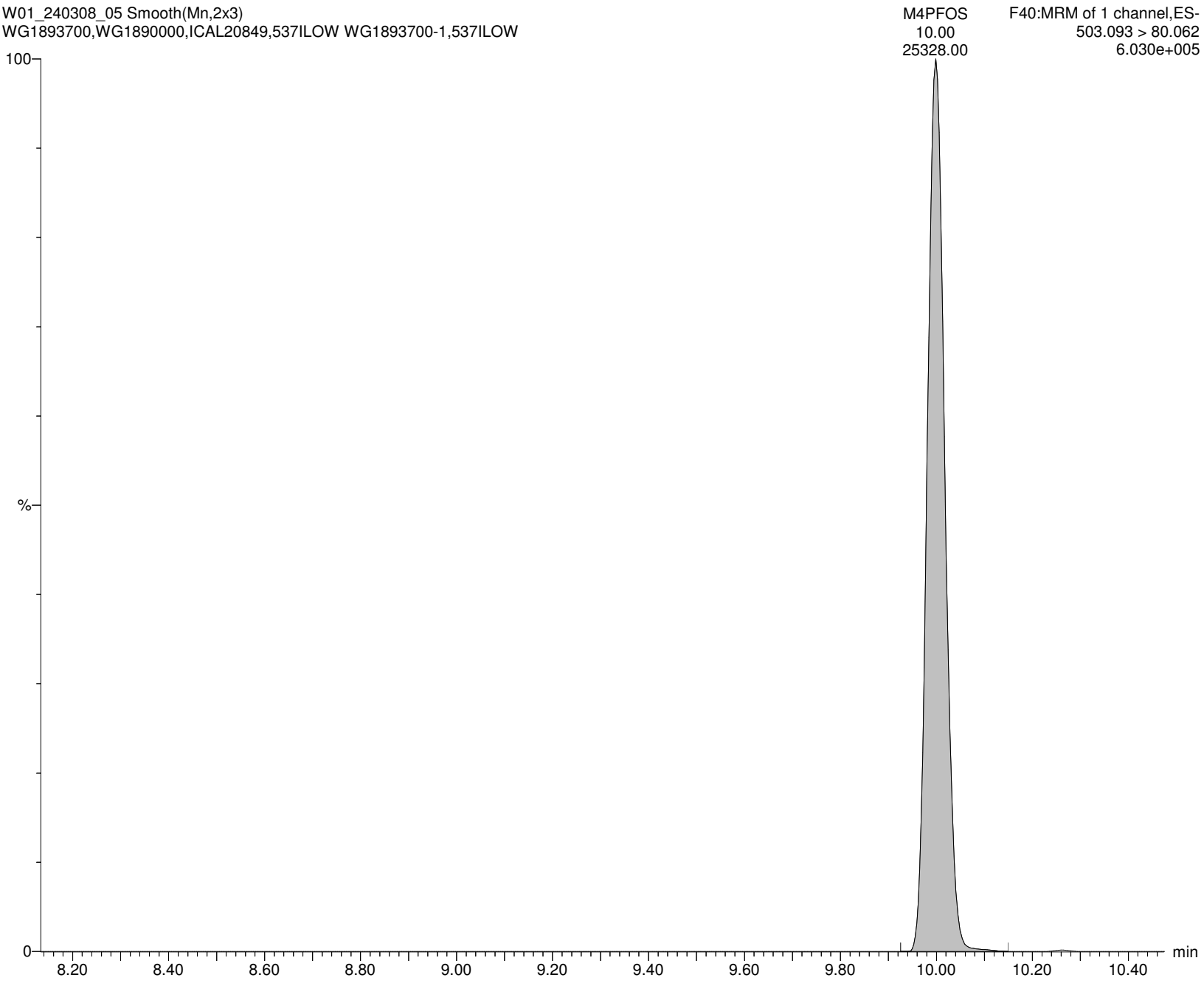
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-1.qld
Last Altered: Friday, March 08, 2024 06:25:04 Eastern Standard Time
Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

Name: W01_240308_05
ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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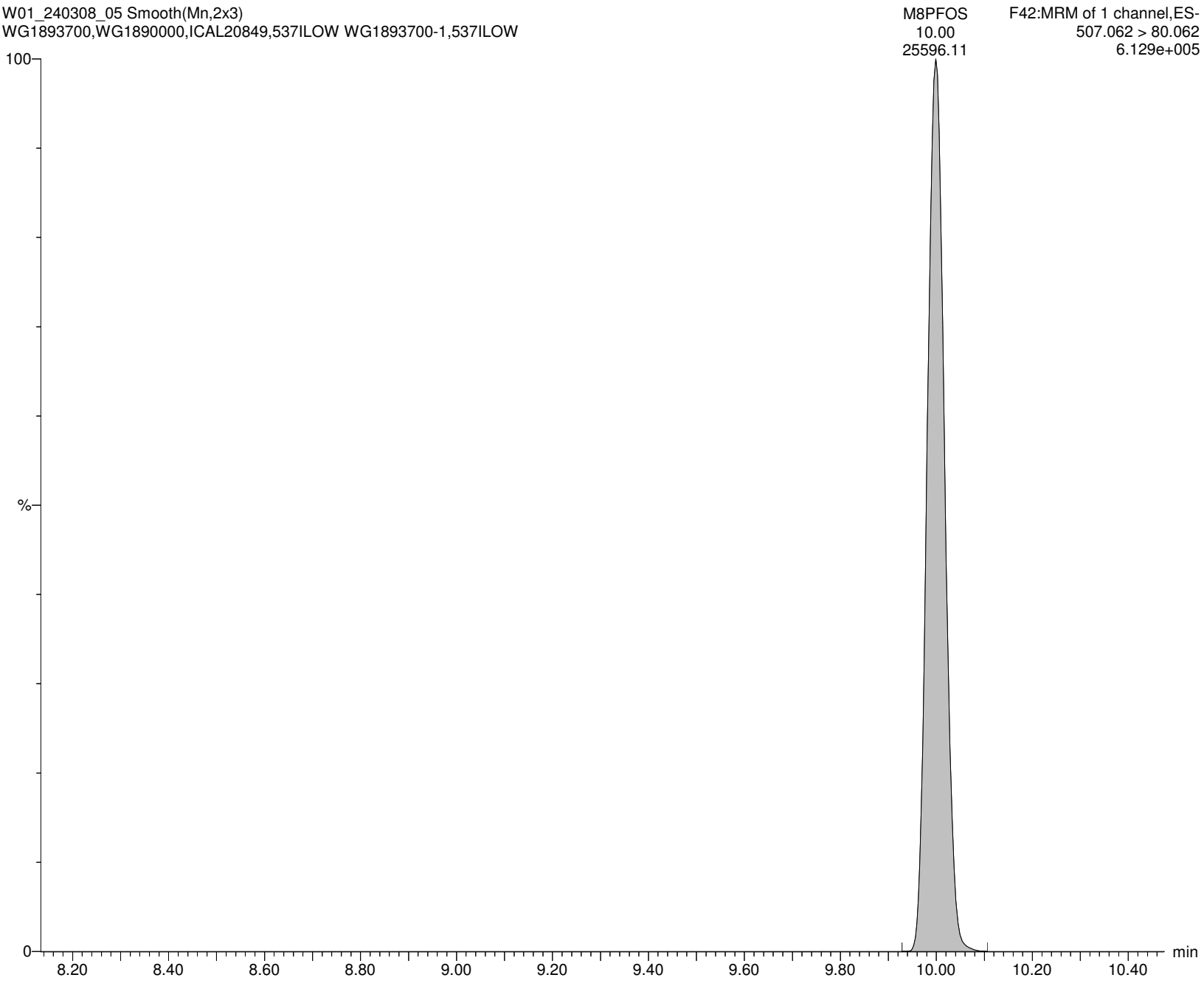

all concentration units in (ng/mL)

Alpha Analytical Inc.
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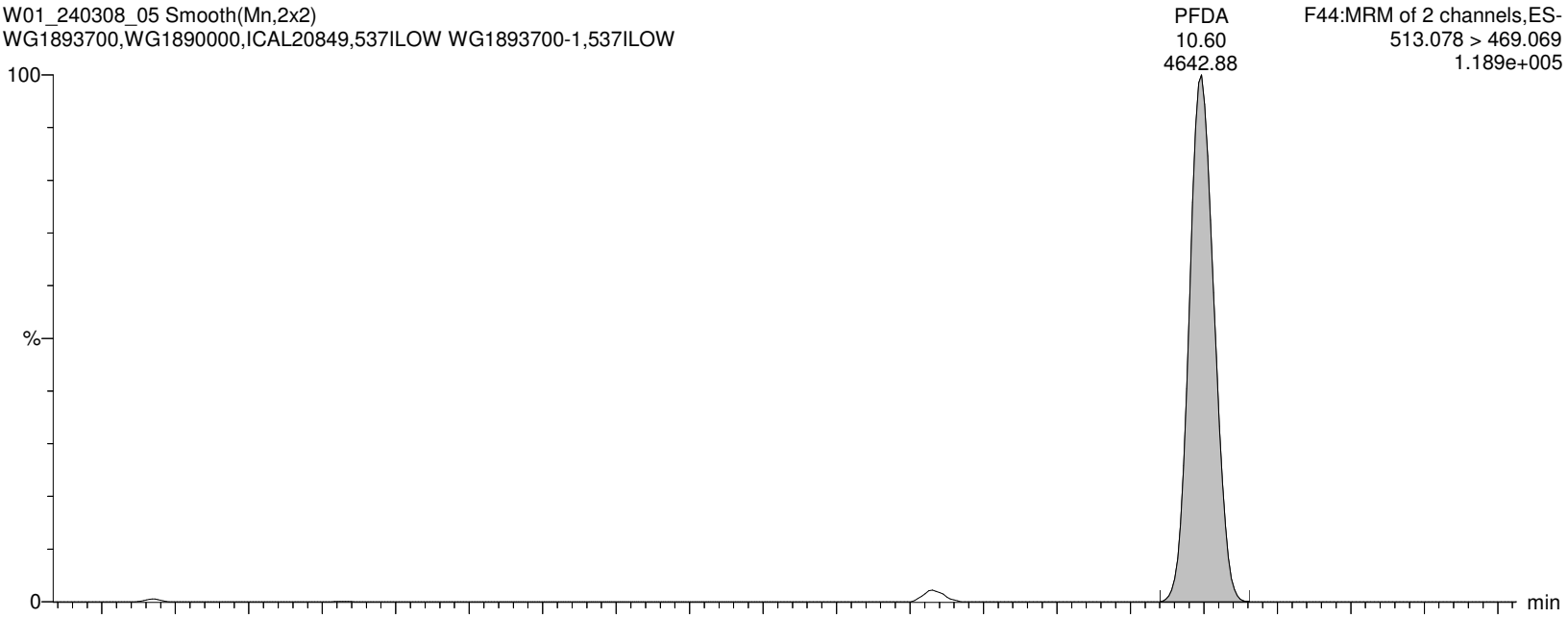

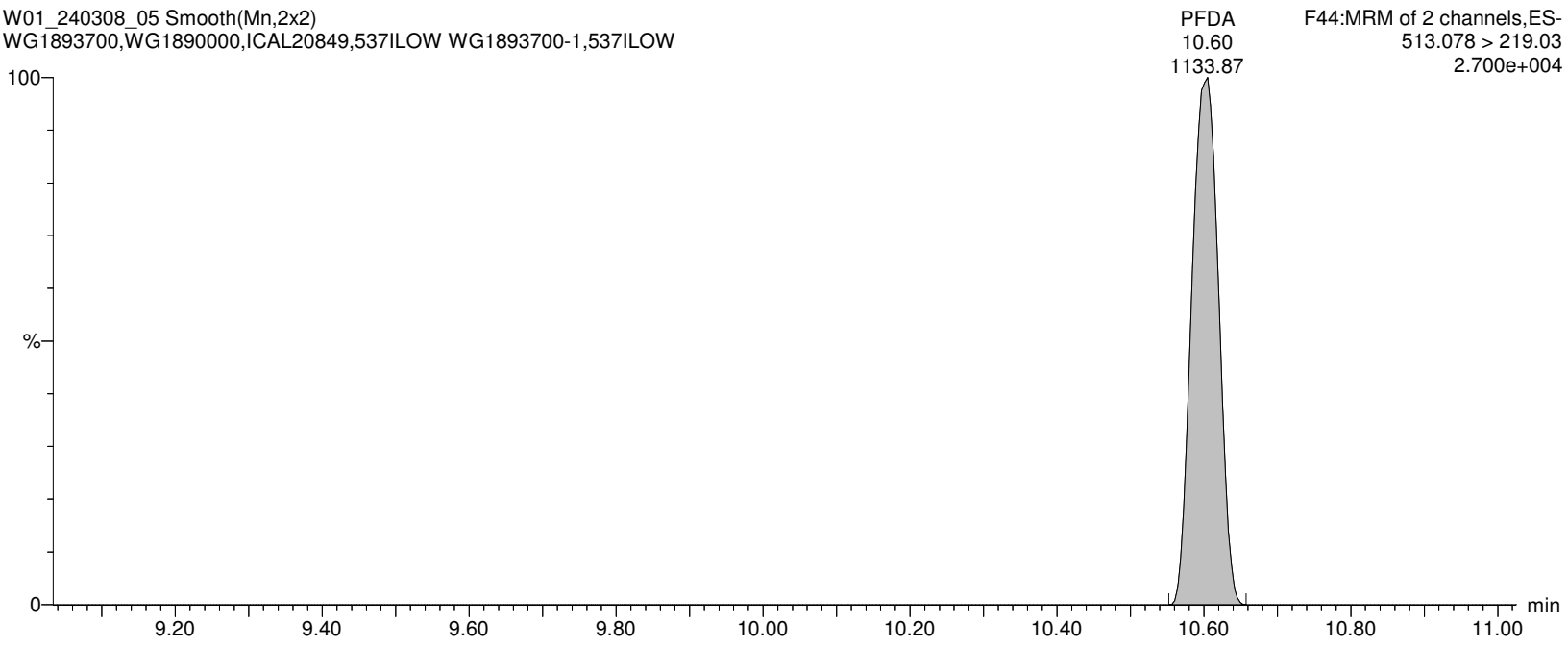

all concentration units in (ng/mL)

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Vial: 1:A,2
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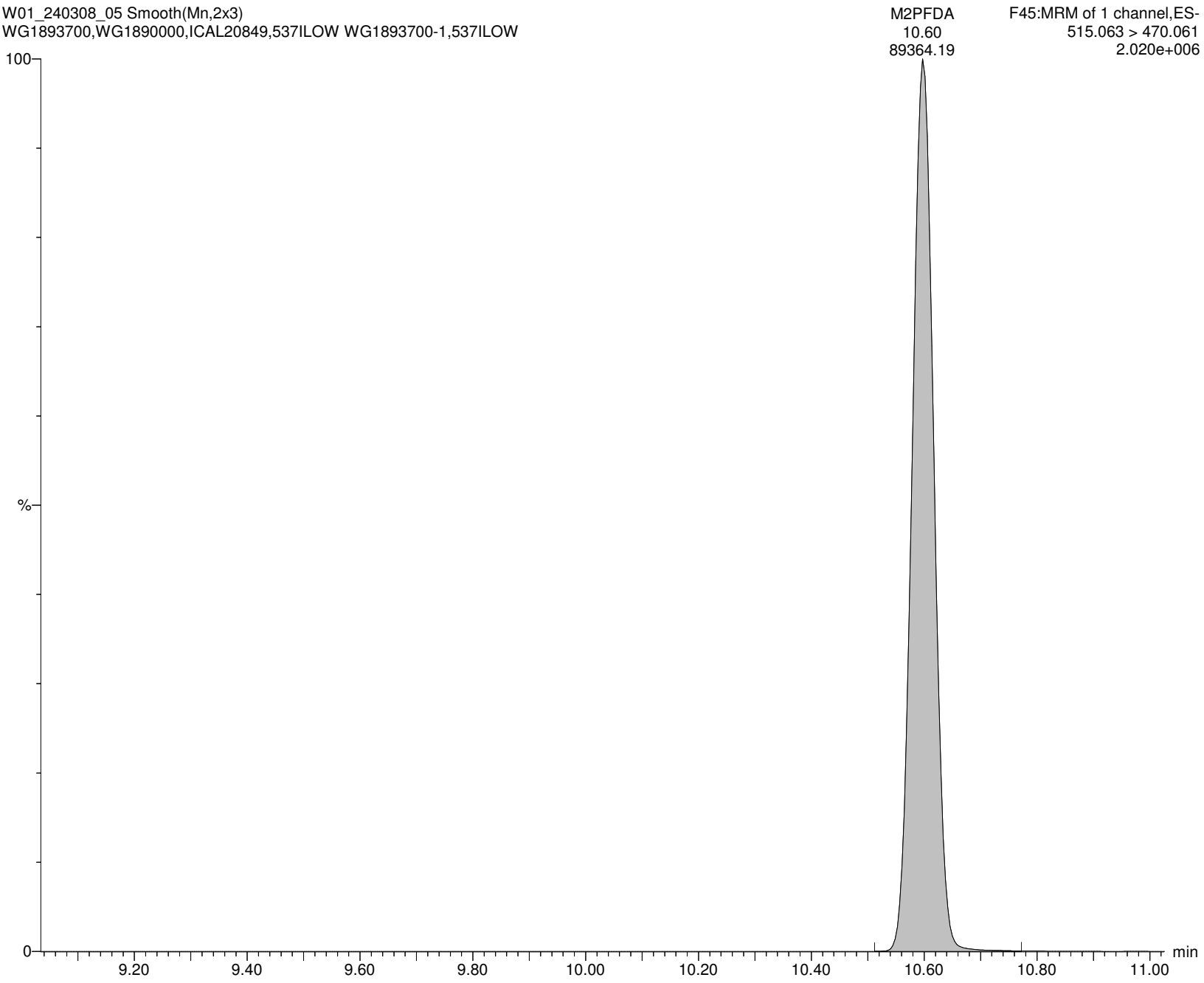
M2PFDA



all concentration units in (ng/mL)

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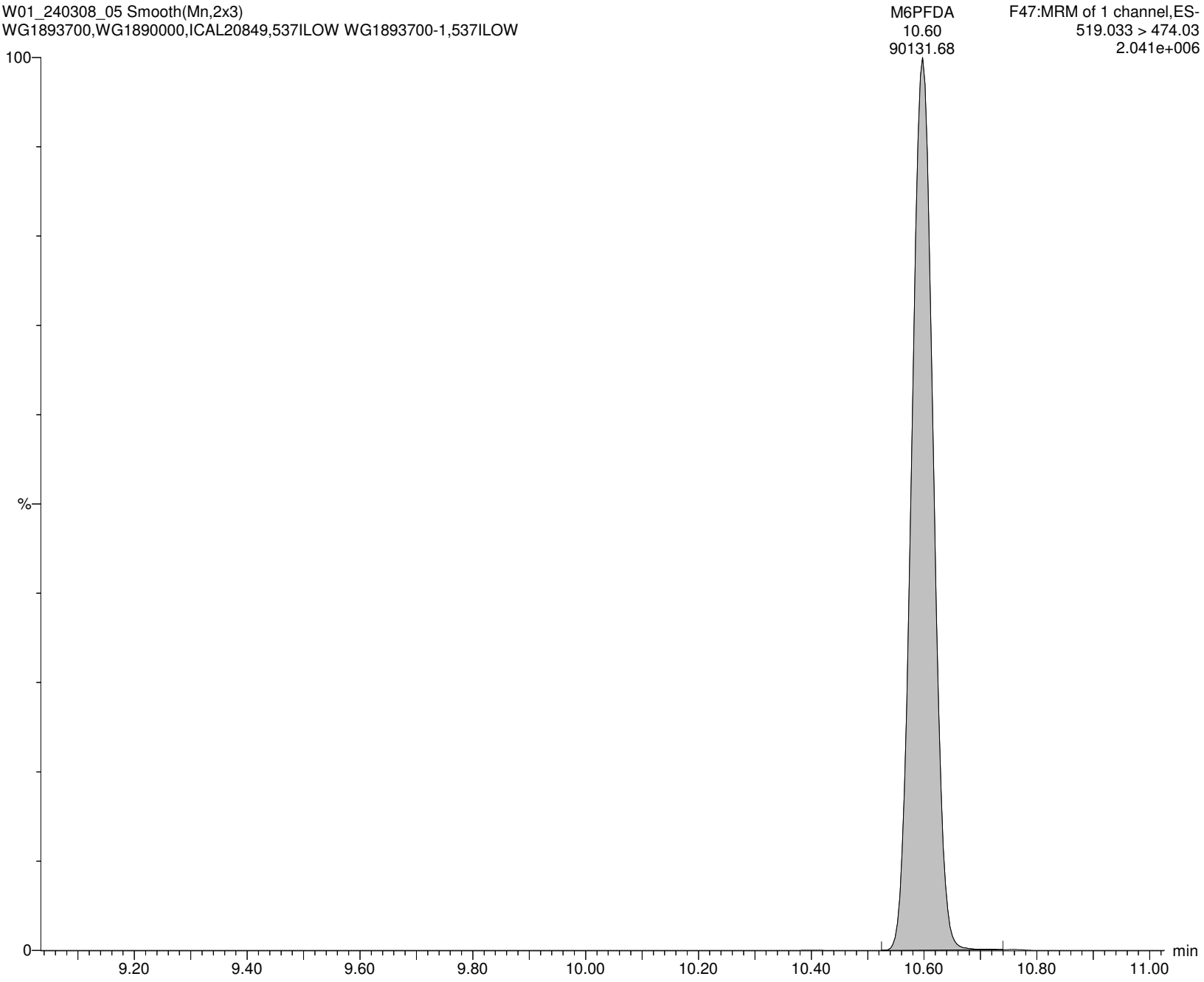

all concentration units in (ng/mL)

Alpha Analytical Inc.
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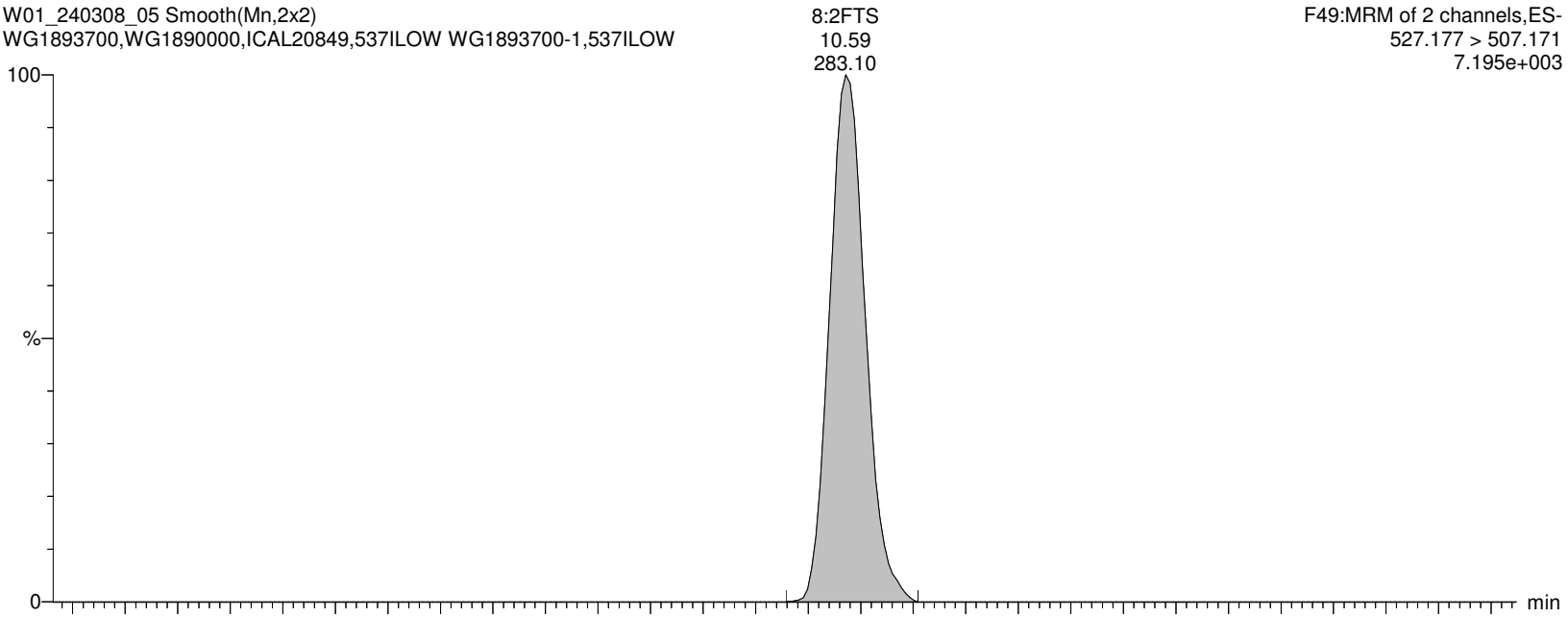
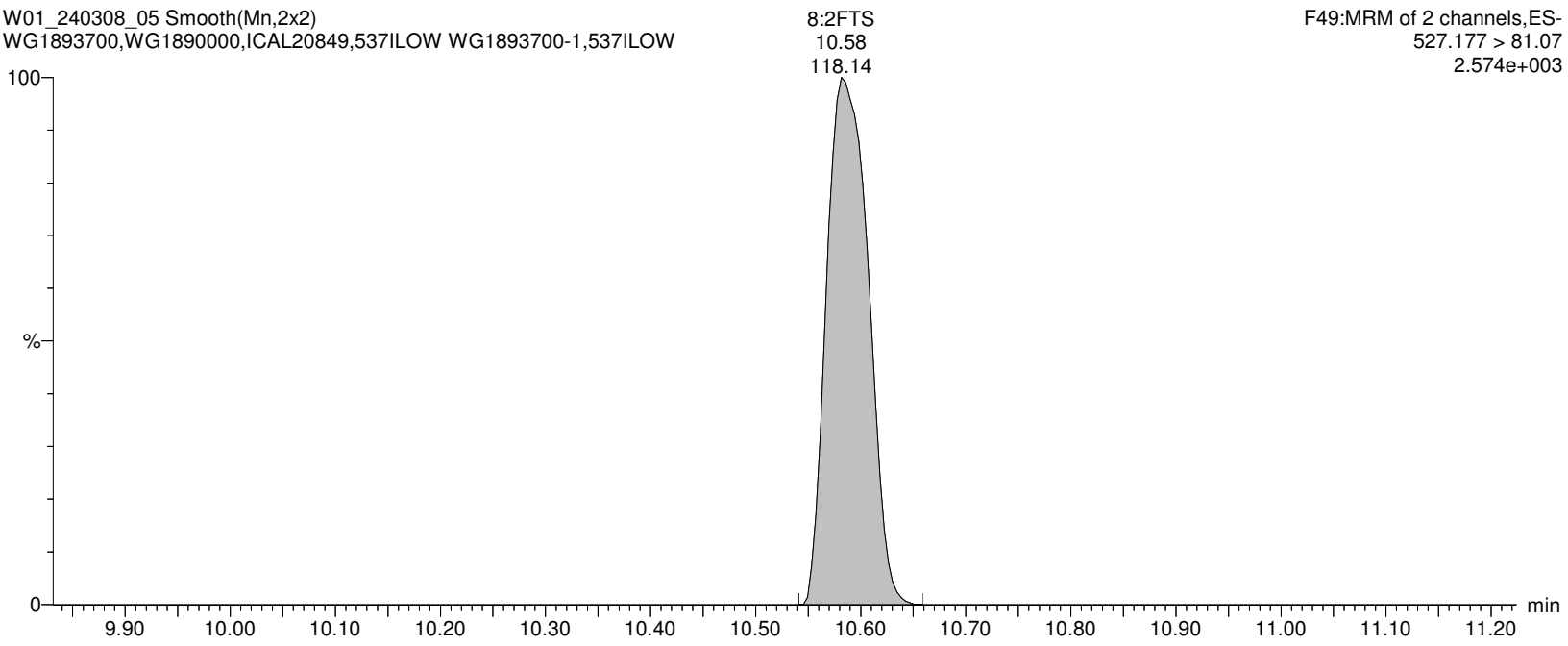
8:2FTS





all concentration units in (ng/mL)

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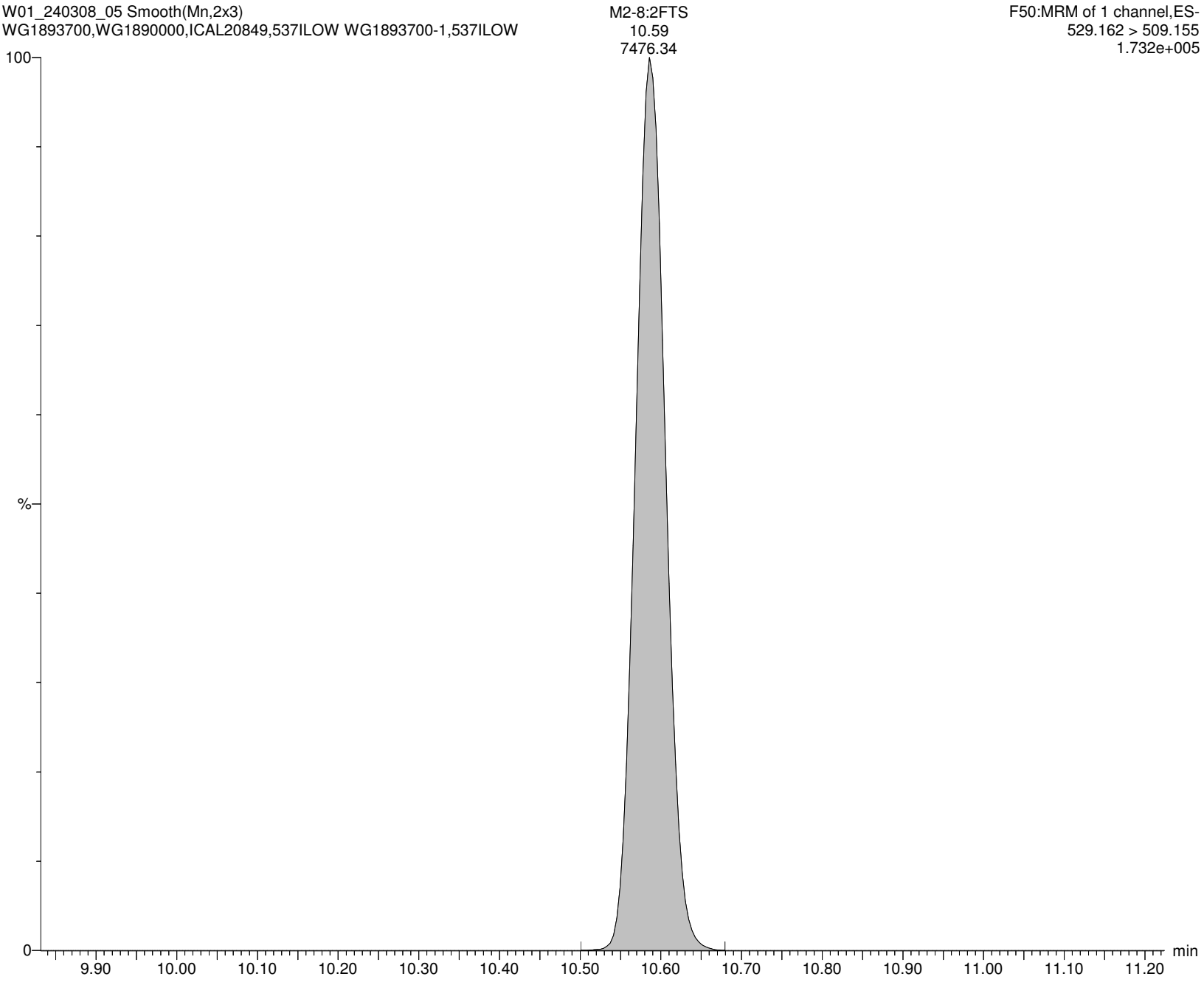

all concentration units in (ng/mL)

Alpha Analytical Inc.
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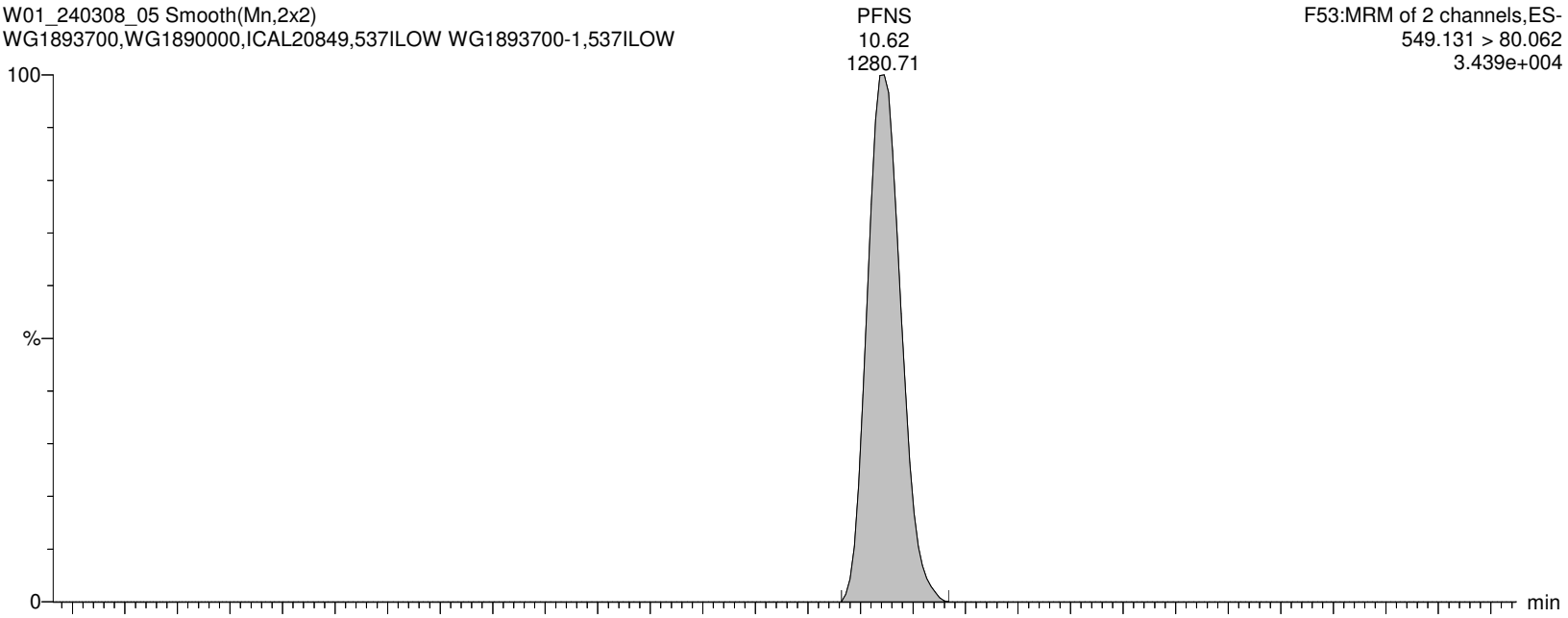

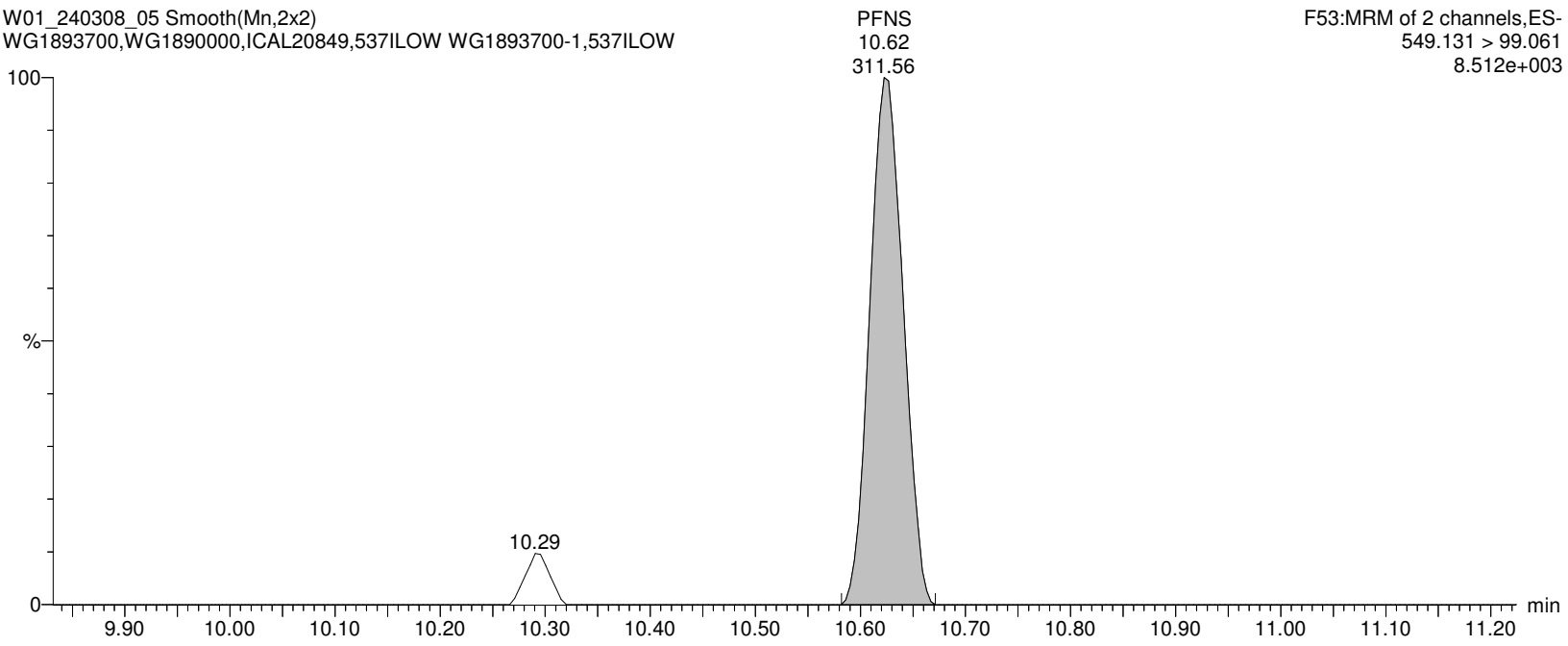

all concentration units in (ng/mL)

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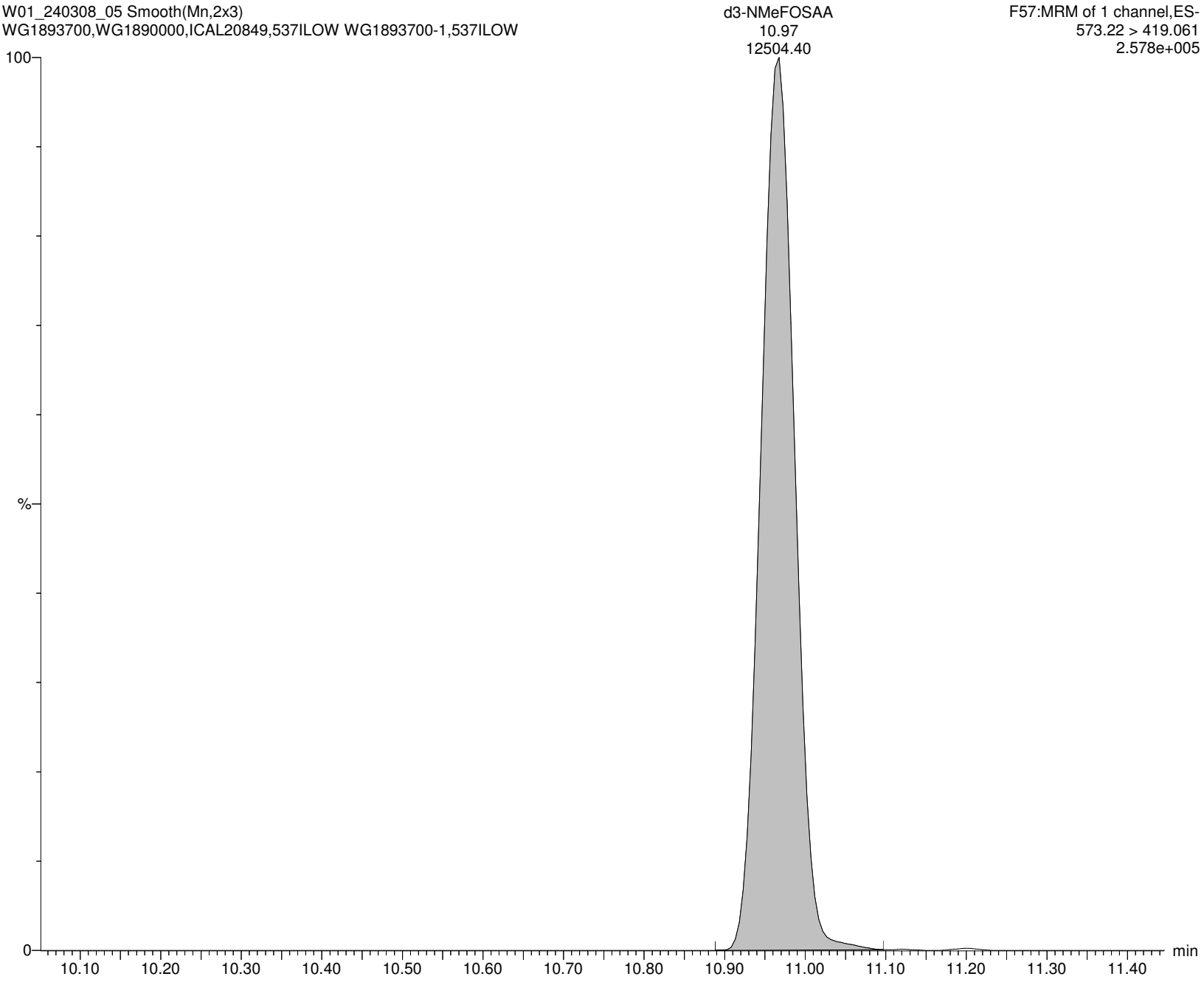
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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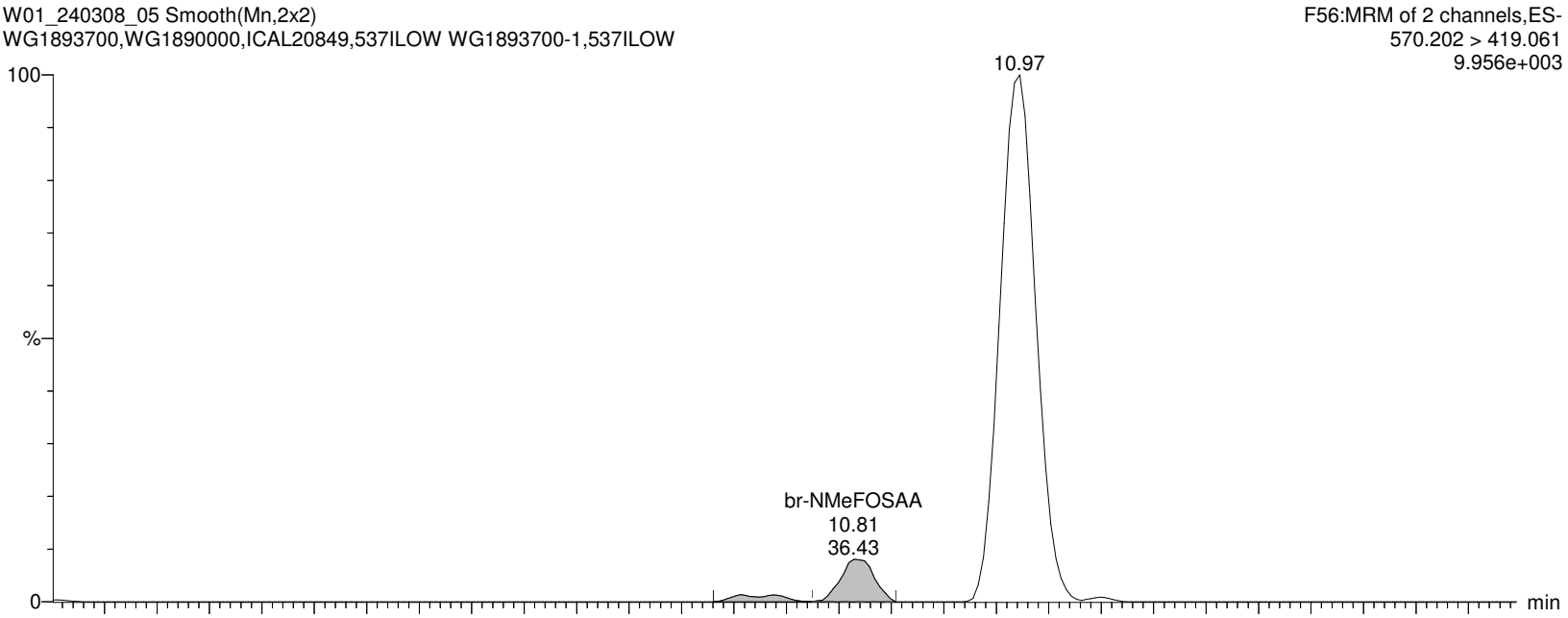

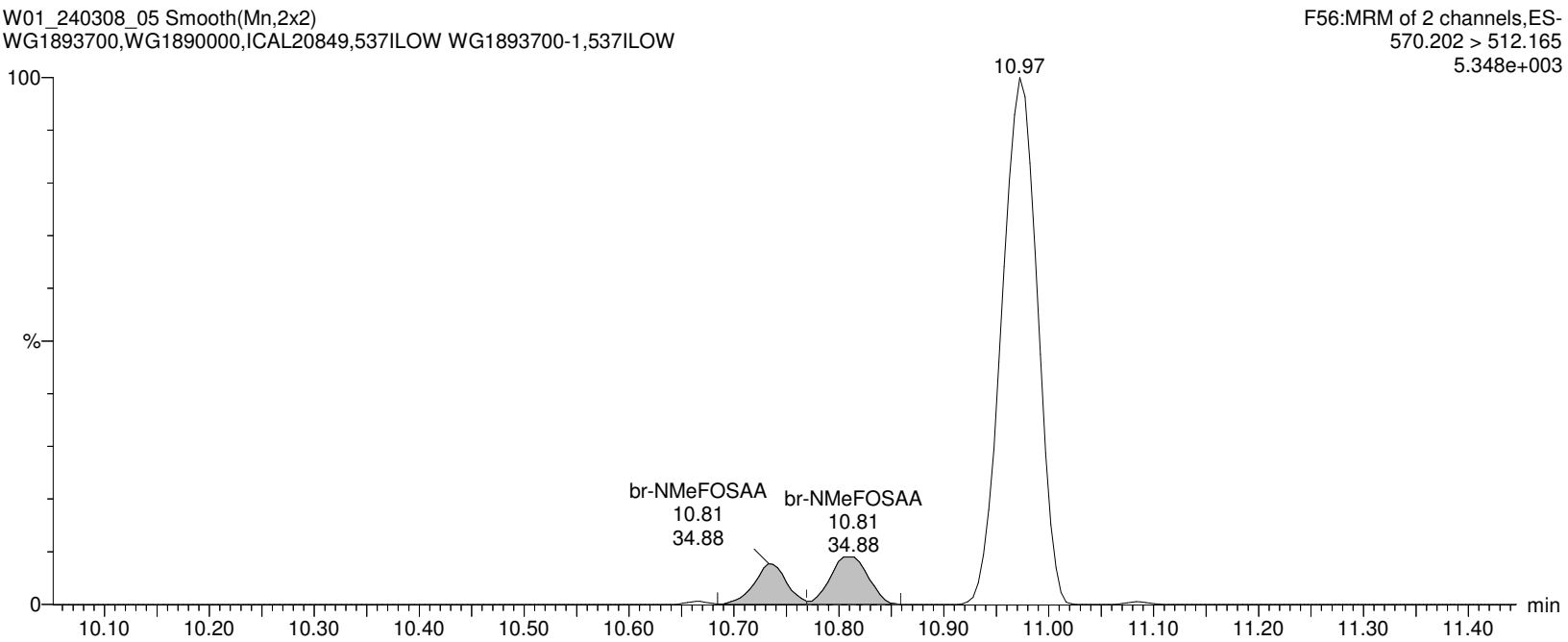

all concentration units in (ng/mL)

Alpha Analytical Inc.
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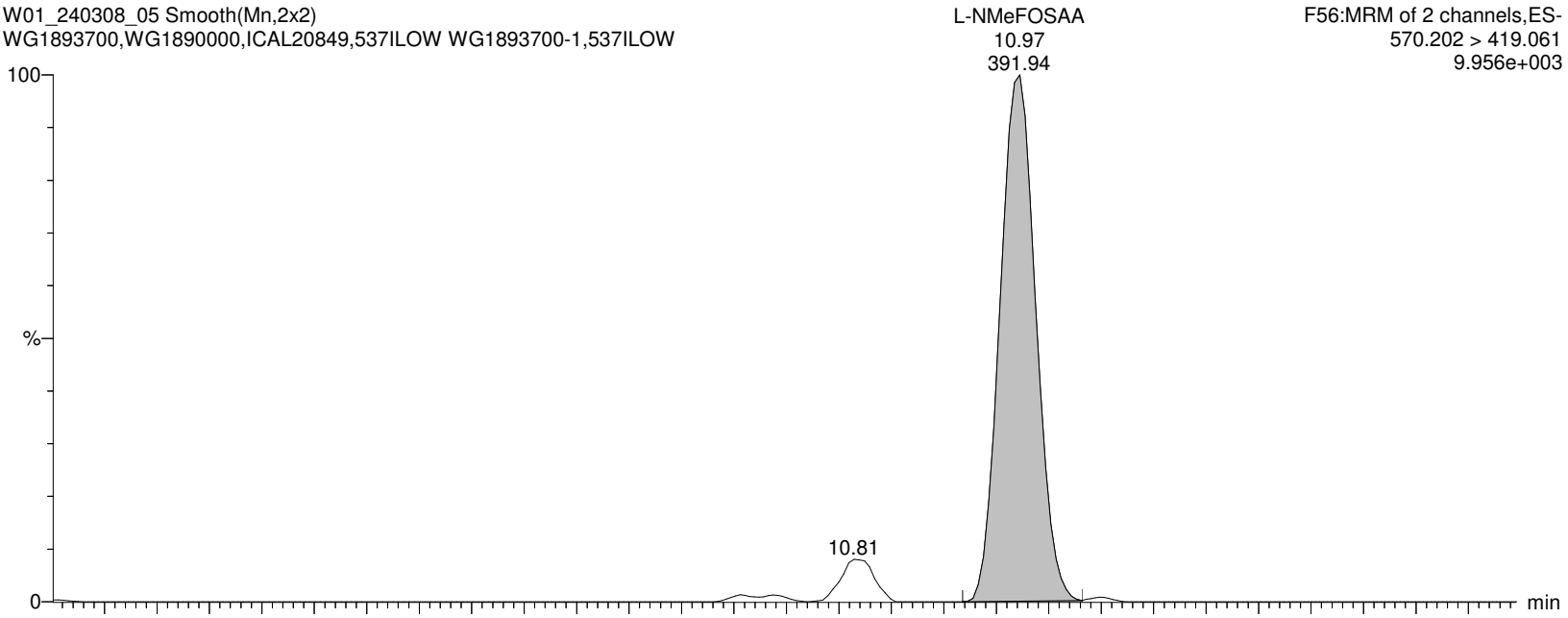

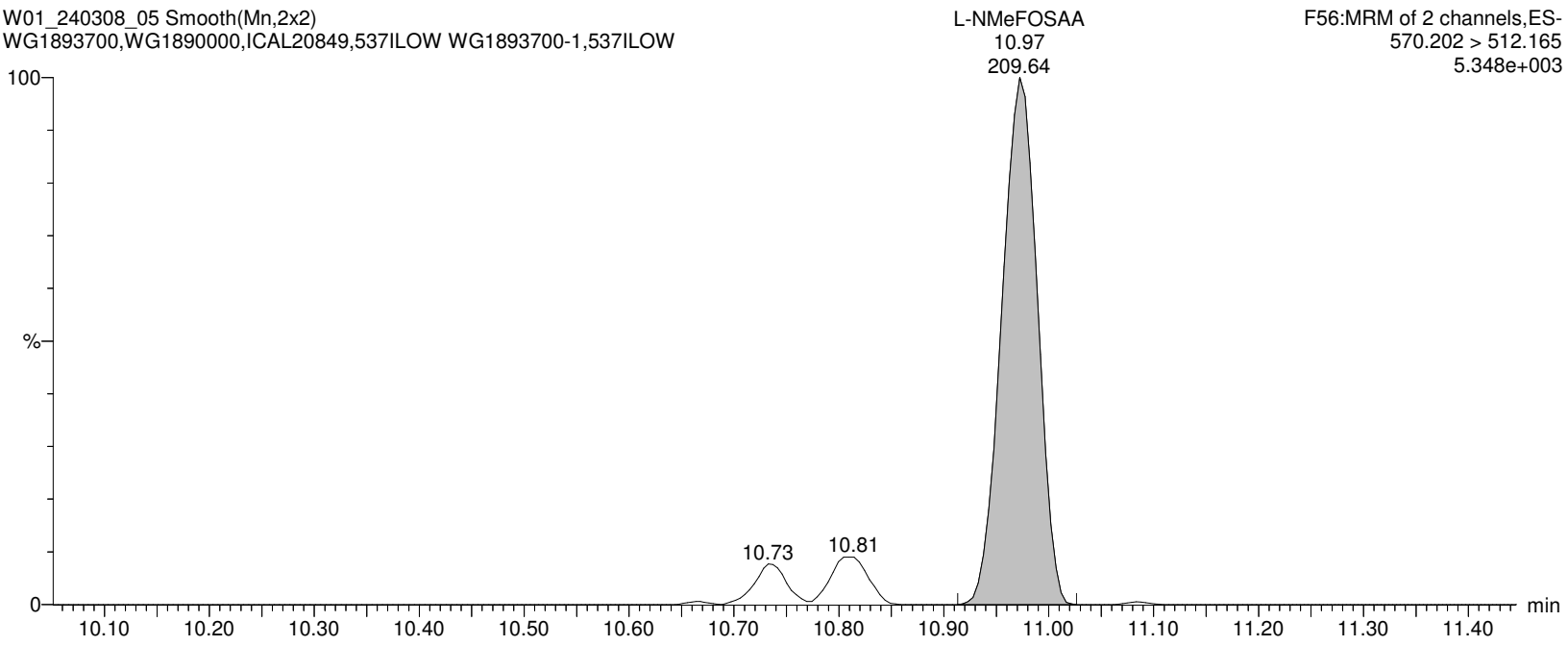

all concentration units in (ng/mL)

Alpha Analytical Inc.
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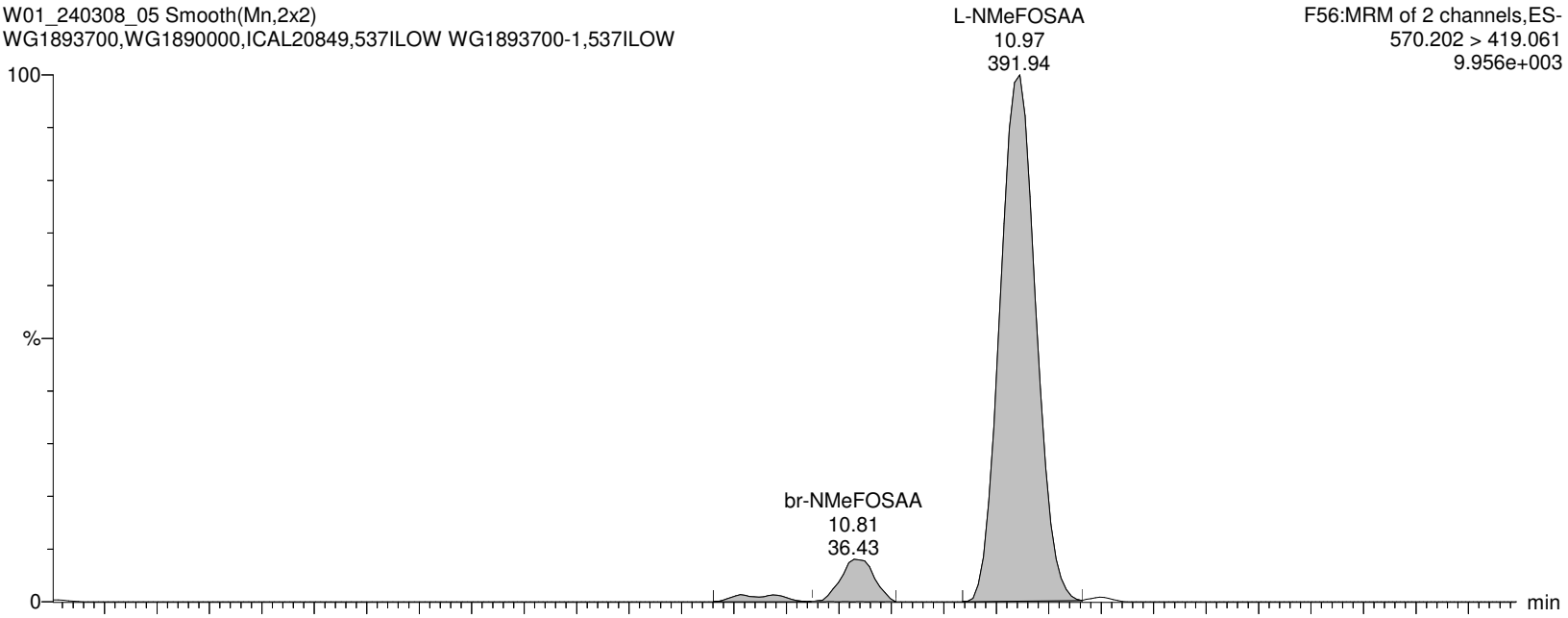

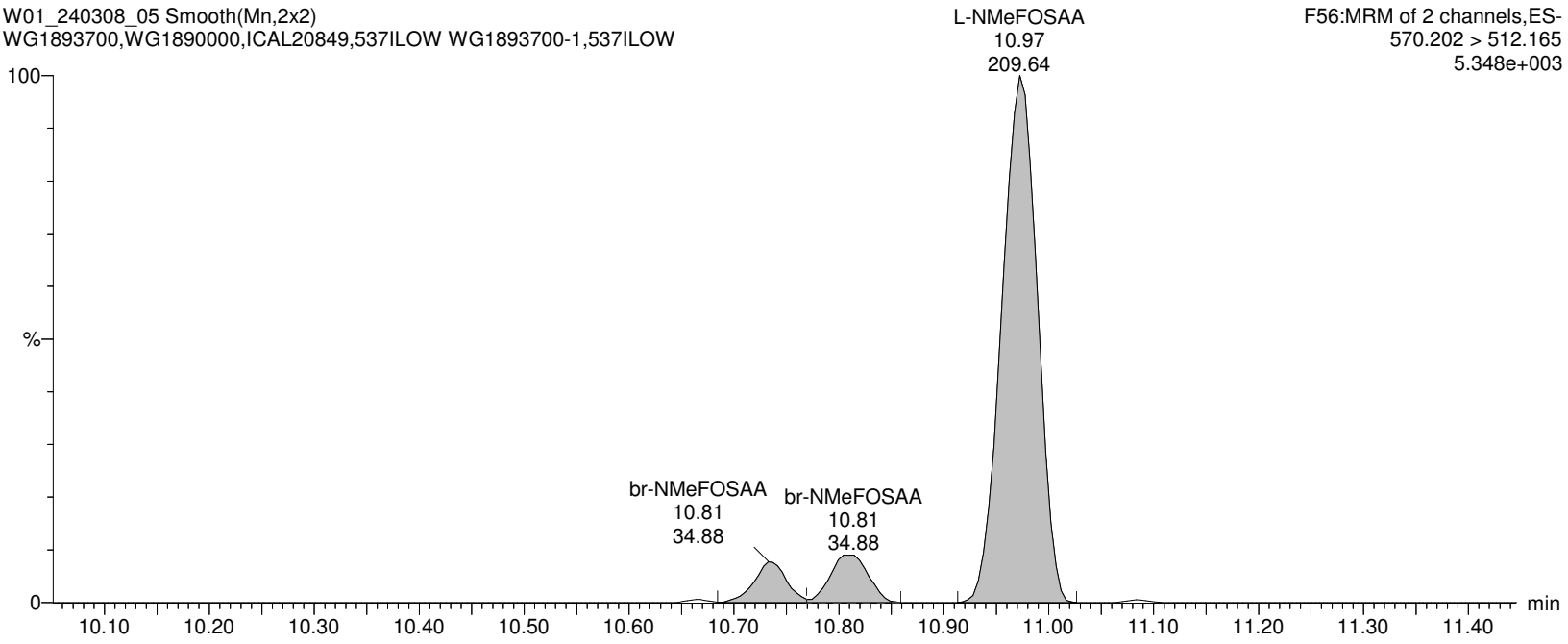

all concentration units in (ng/mL)

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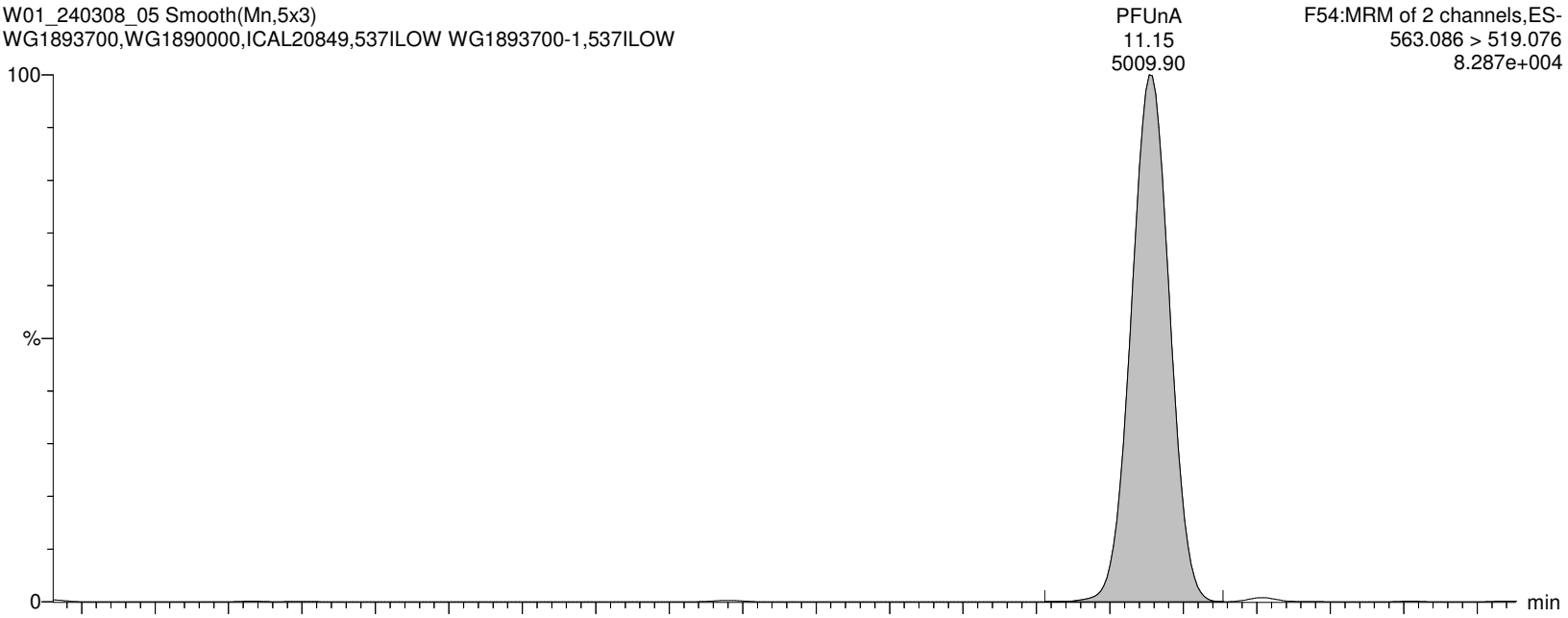

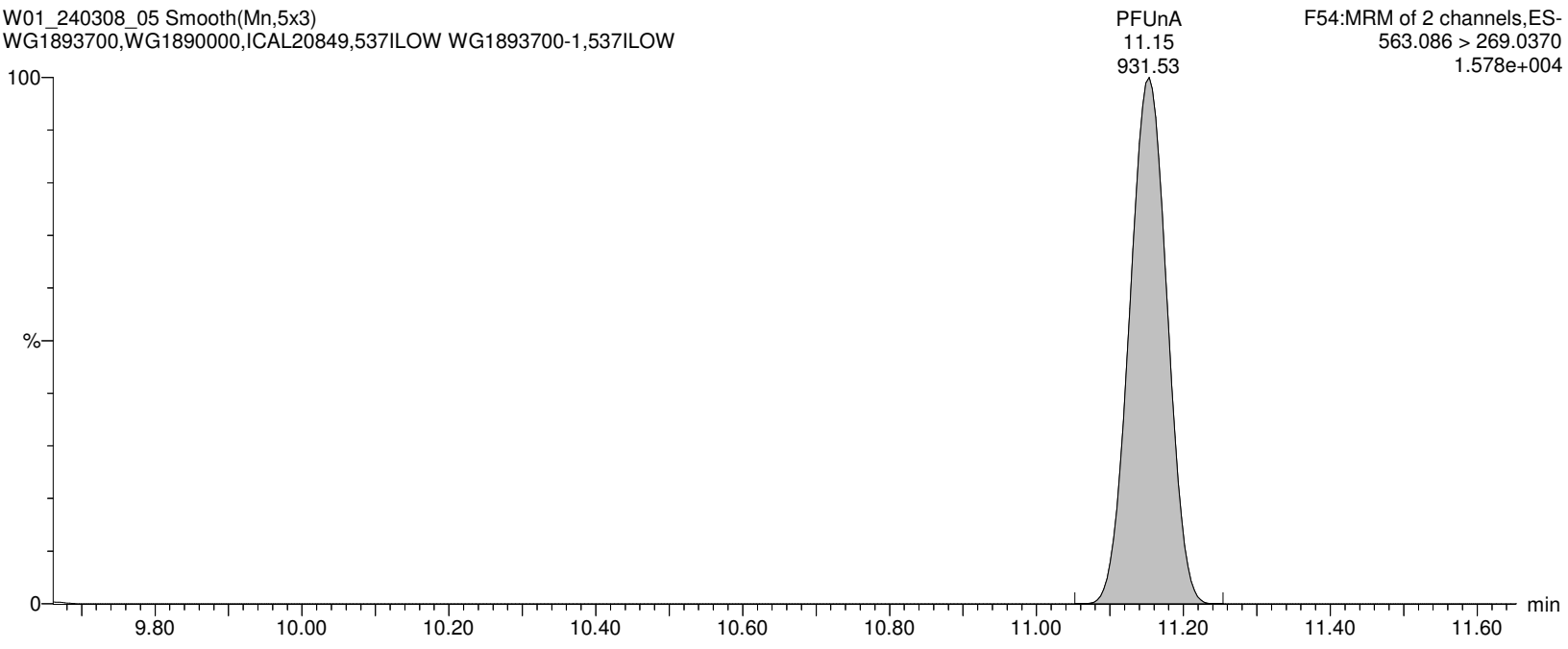

all concentration units in (ng/mL)

Alpha Analytical Inc.
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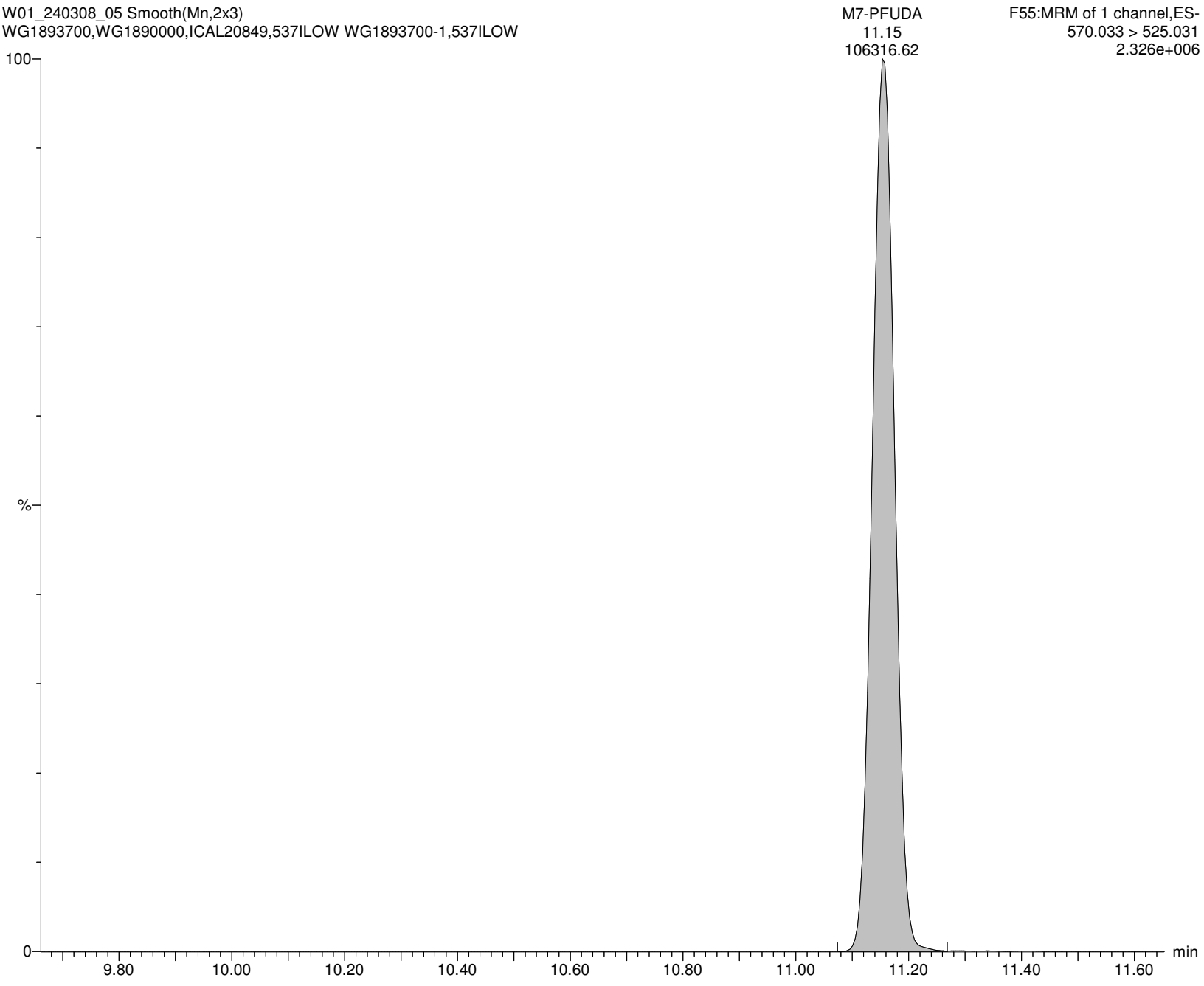

all concentration units in (ng/mL)

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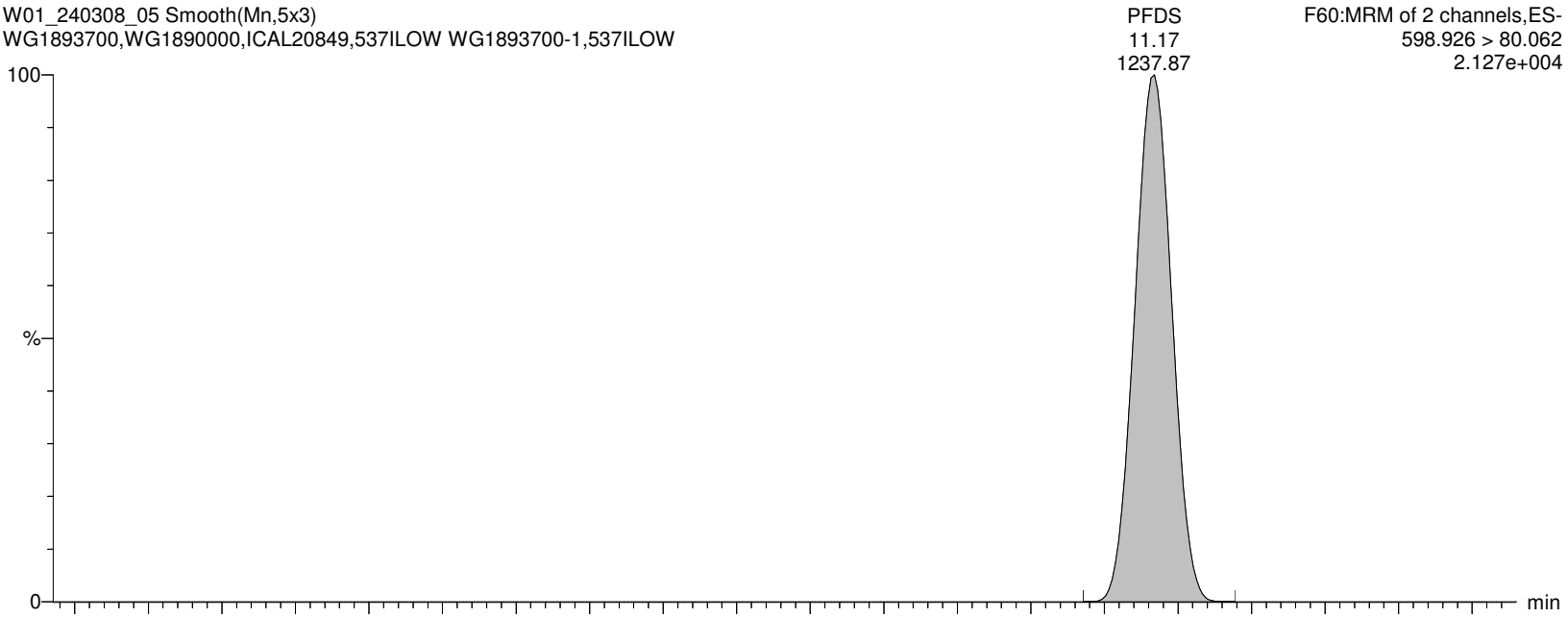

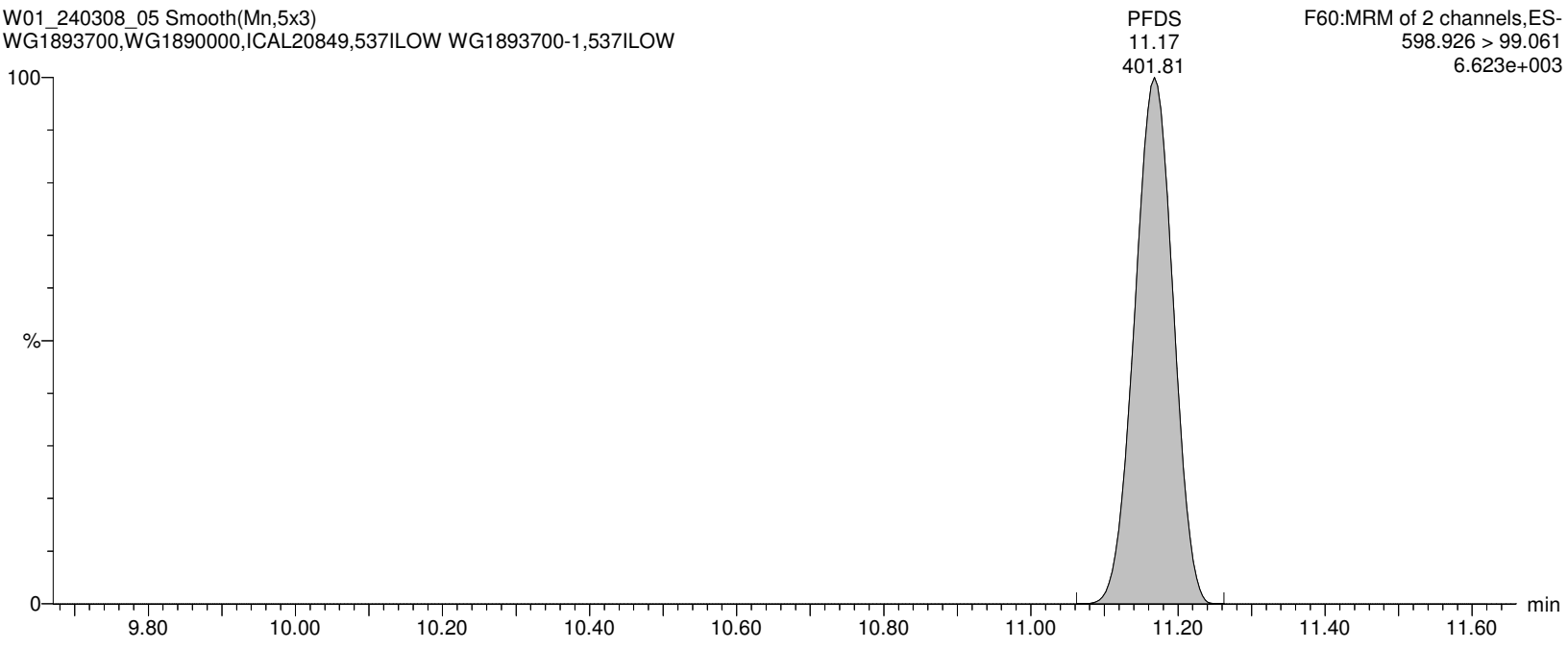

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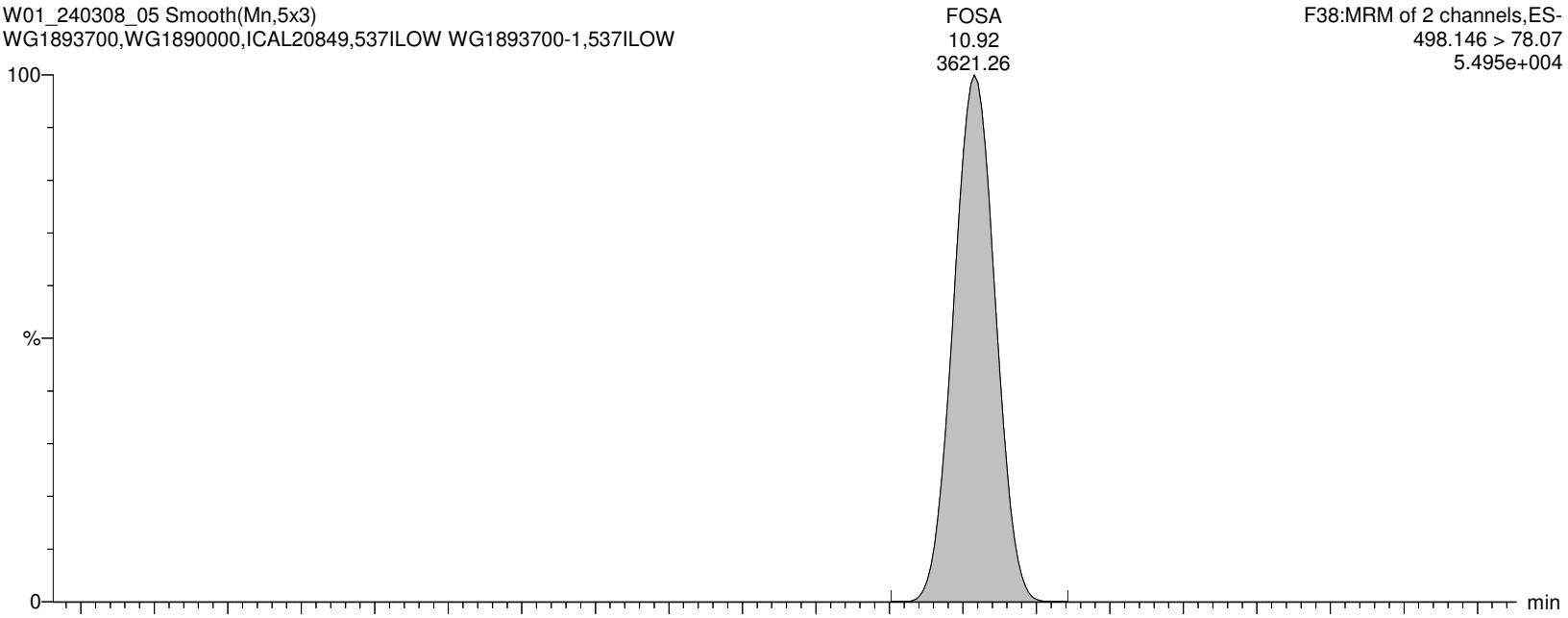

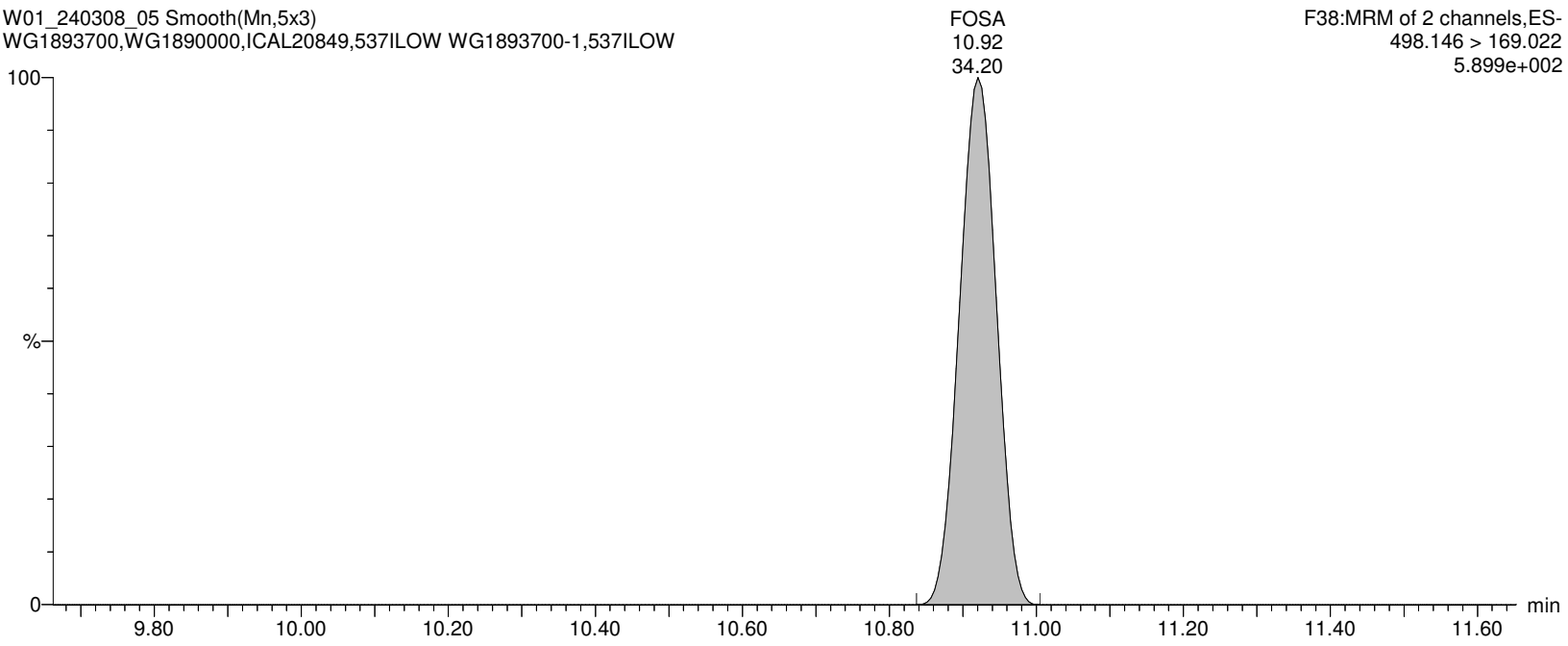

all concentration units in (ng/mL)

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ID: WG1893700-1,537ILOW
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Time: 06:05:40
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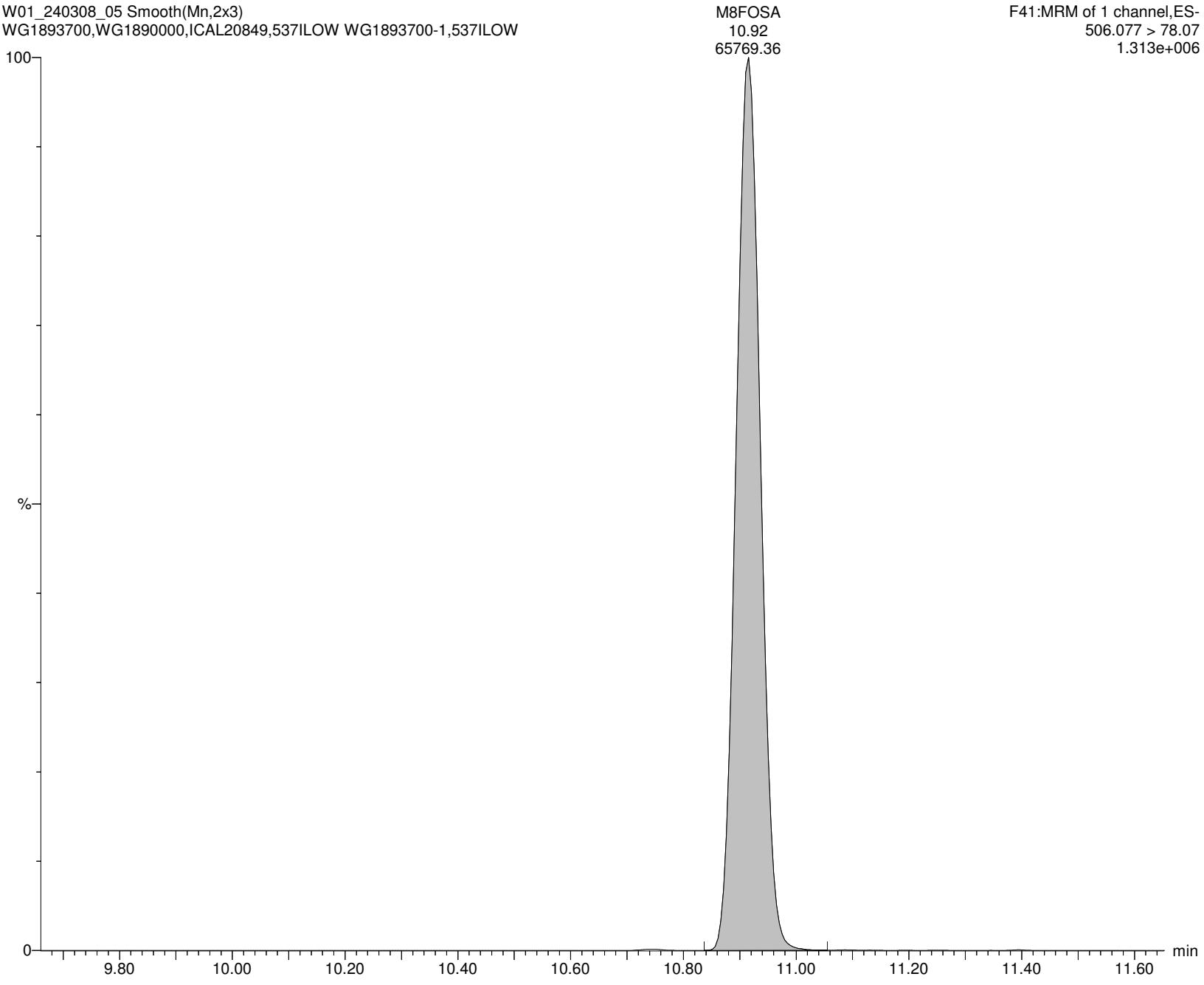

all concentration units in (ng/mL)

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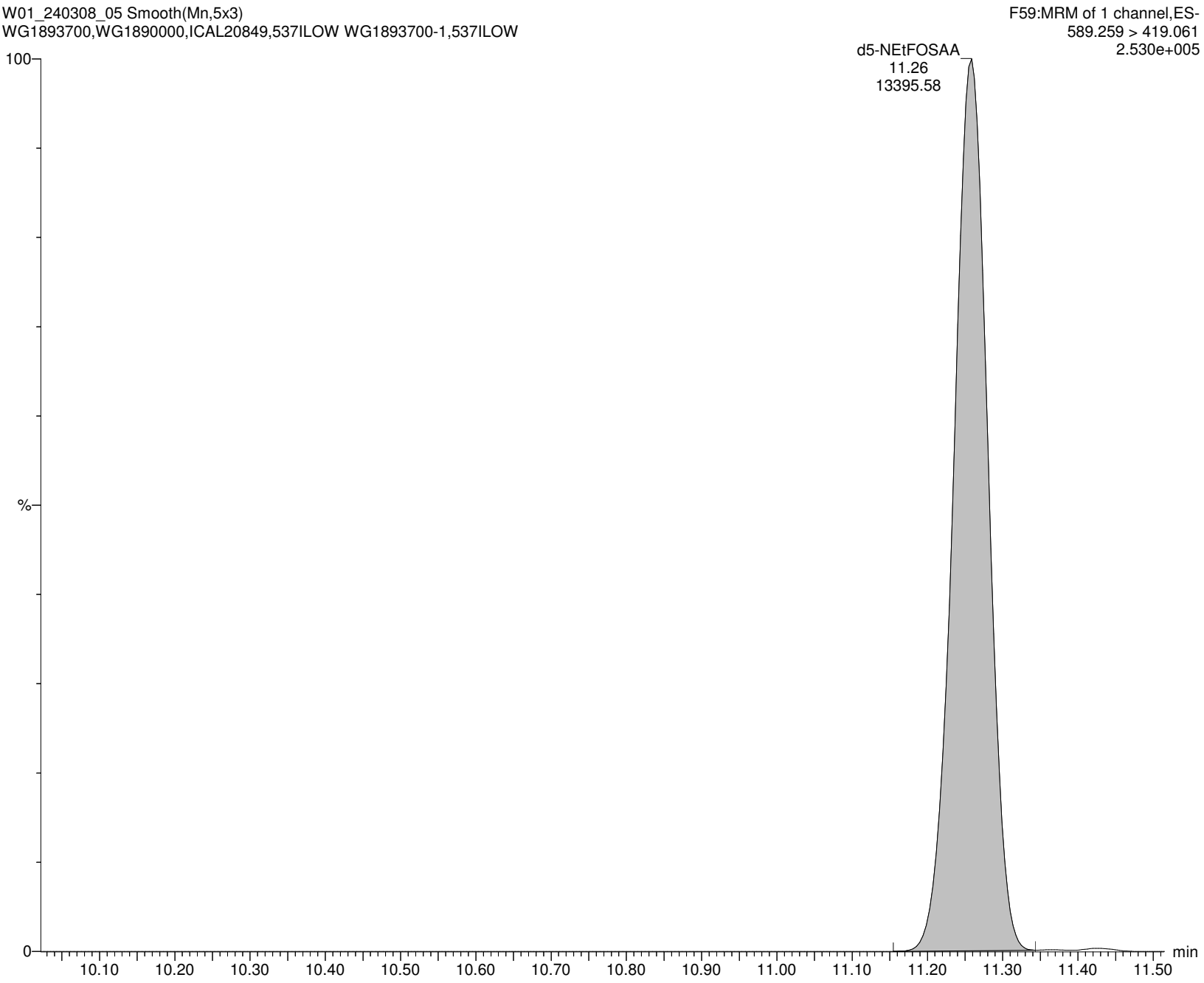

all concentration units in (ng/mL)

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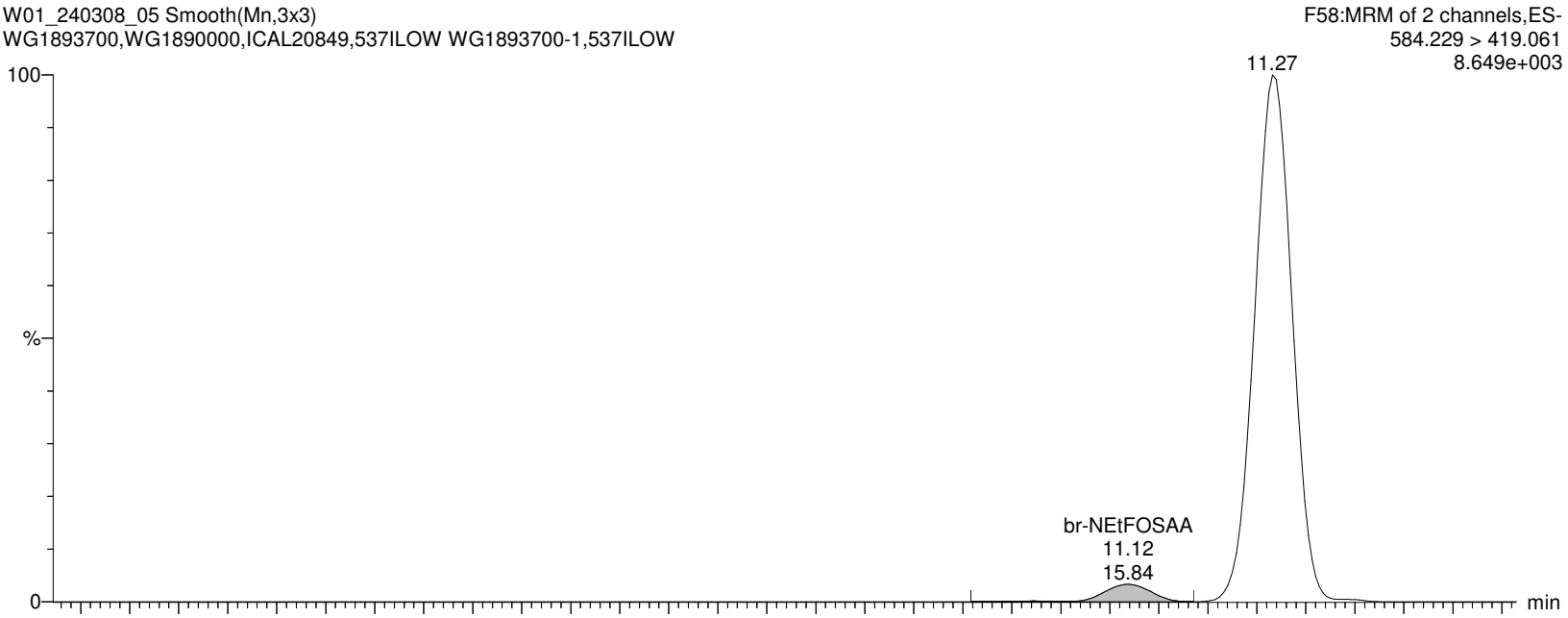

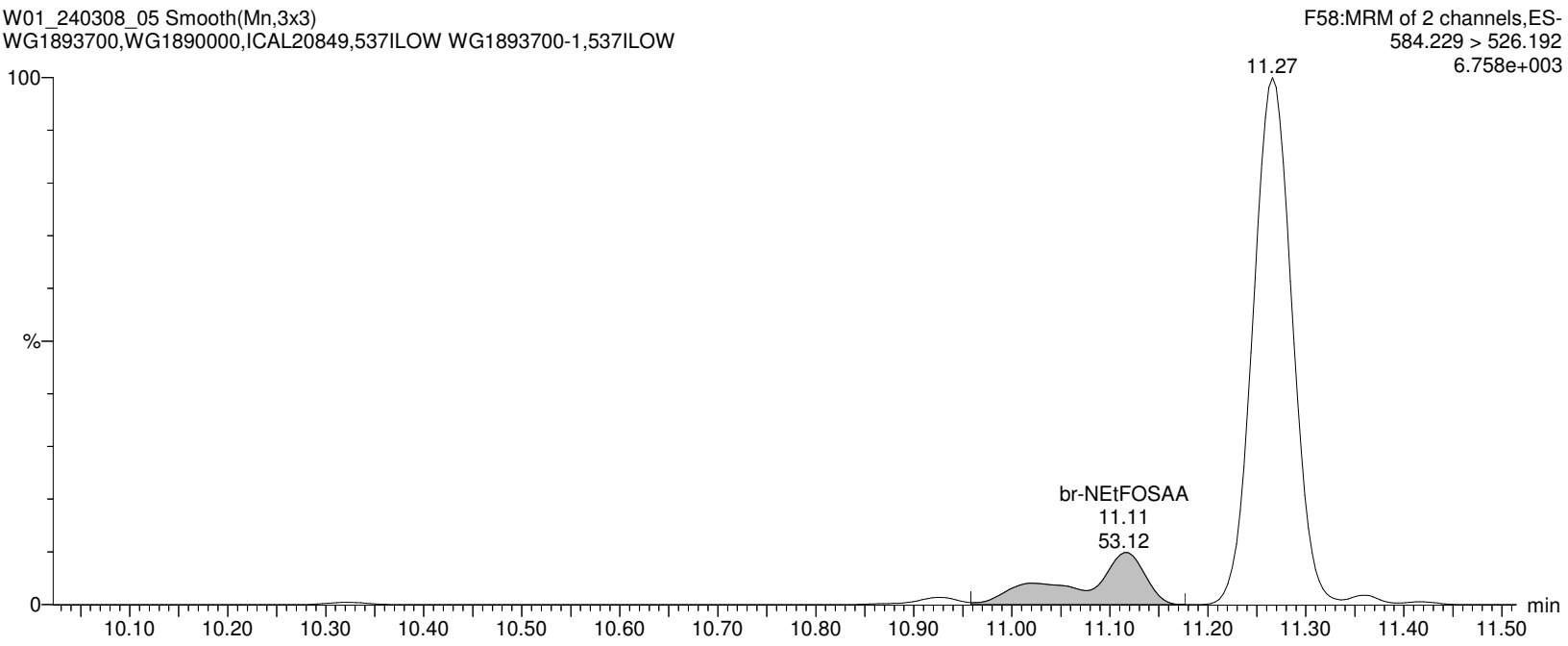

all concentration units in (ng/mL)

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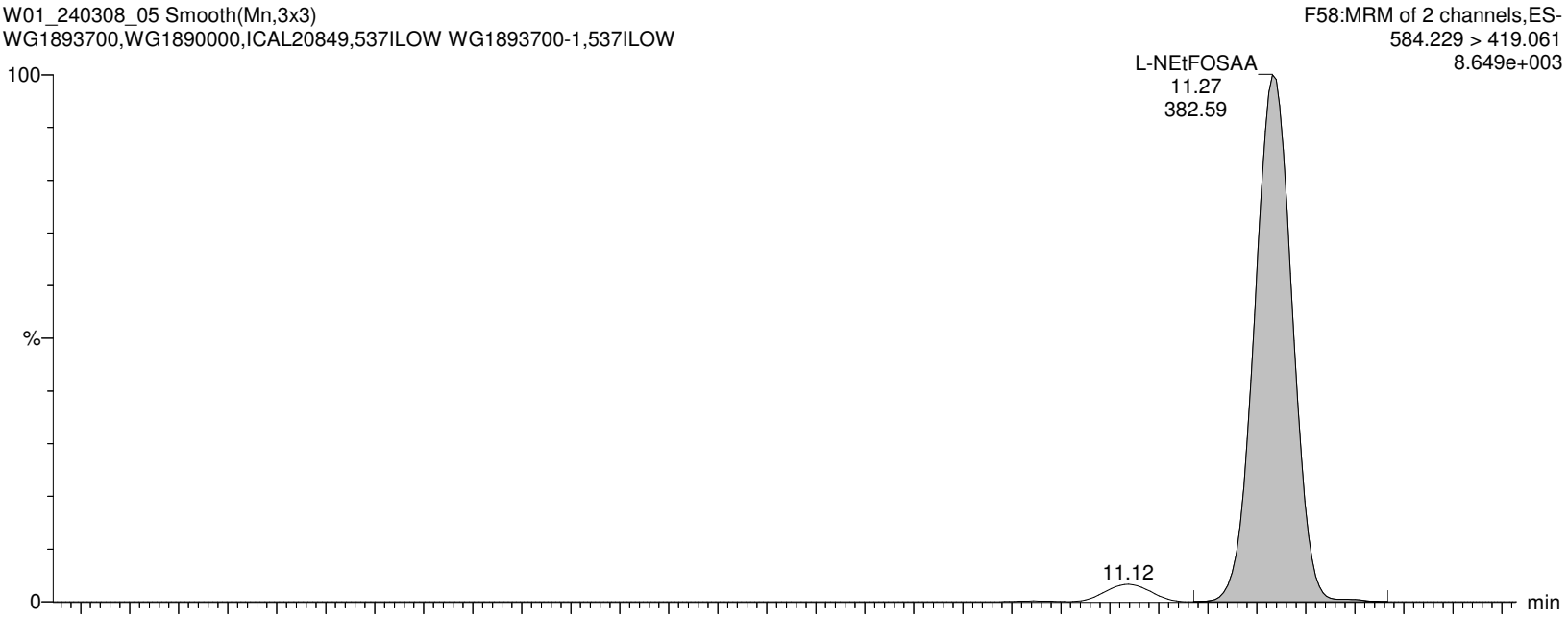

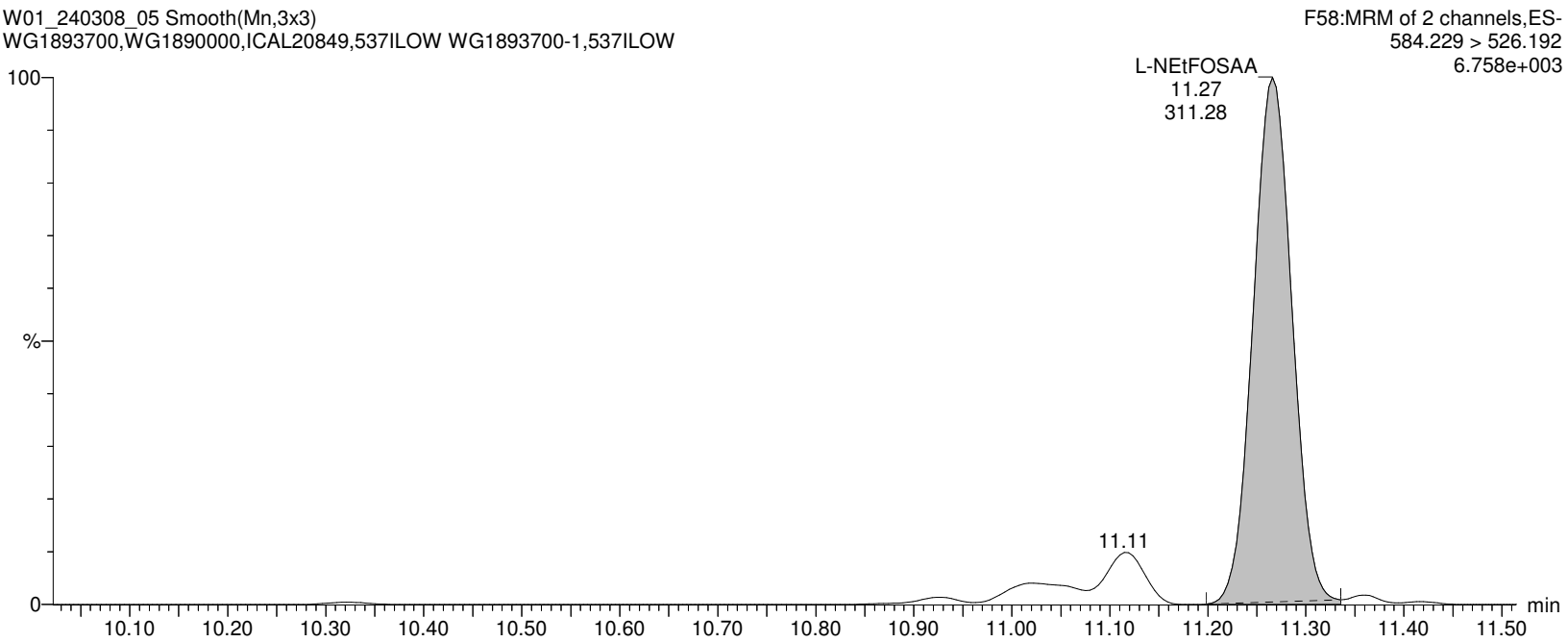

all concentration units in (ng/mL)

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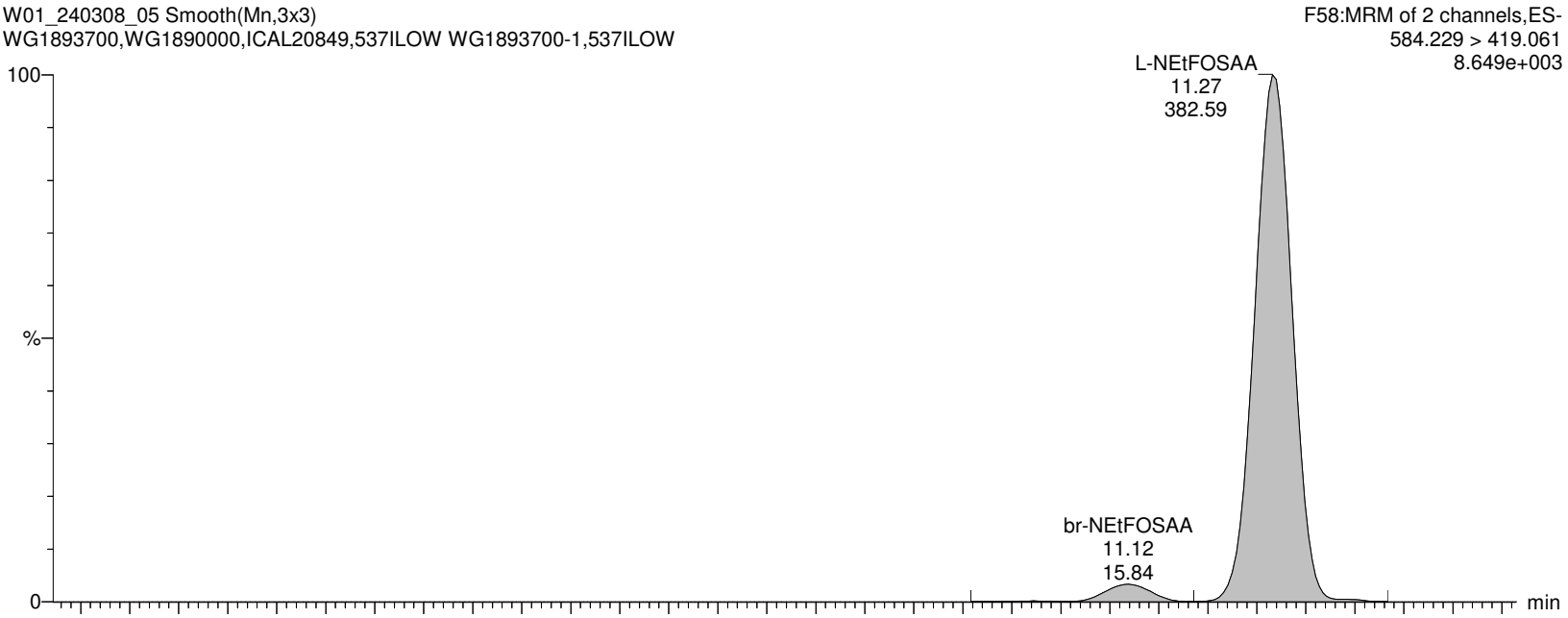

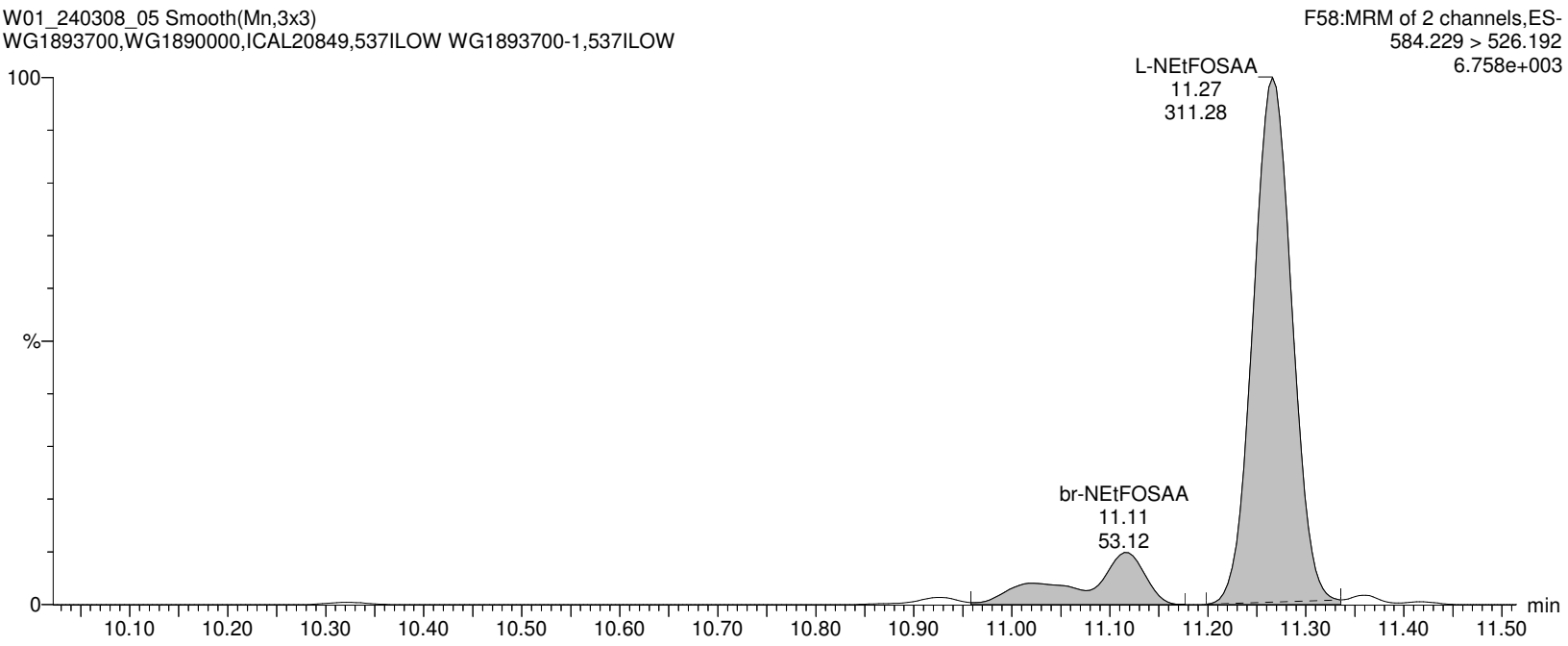

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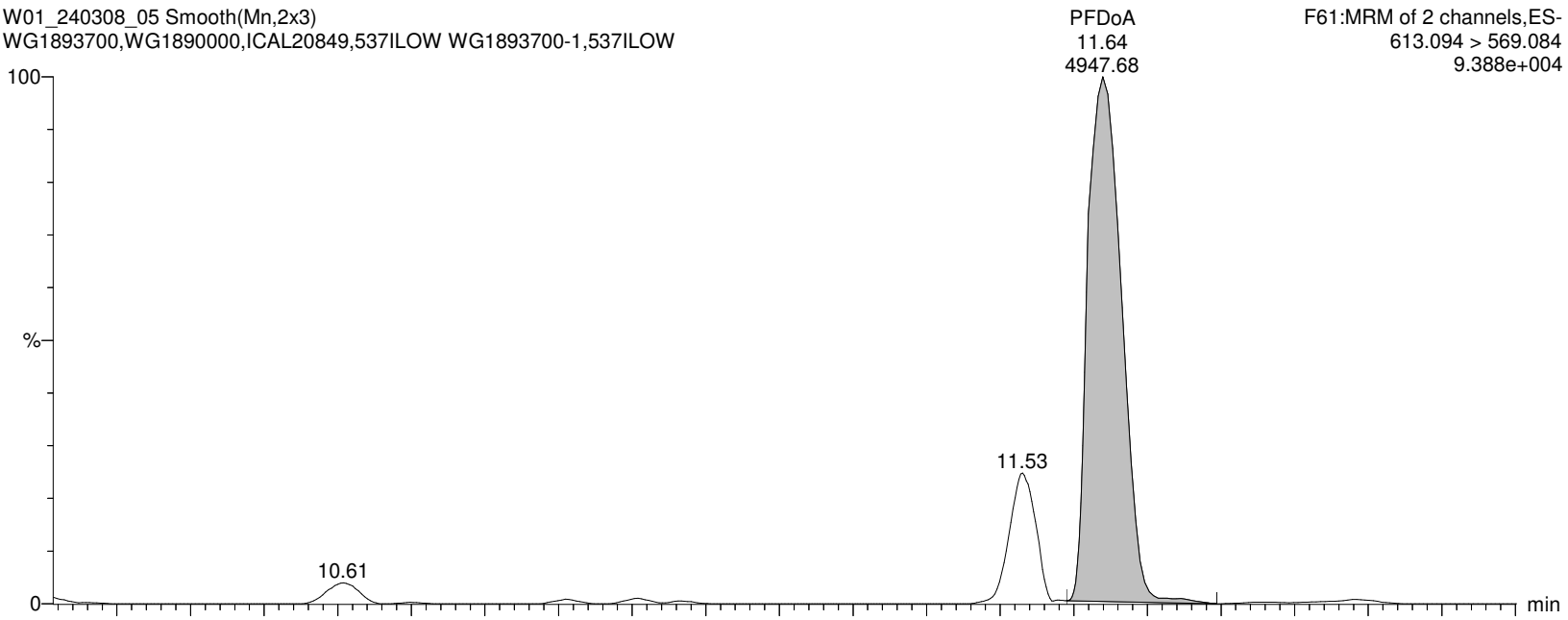

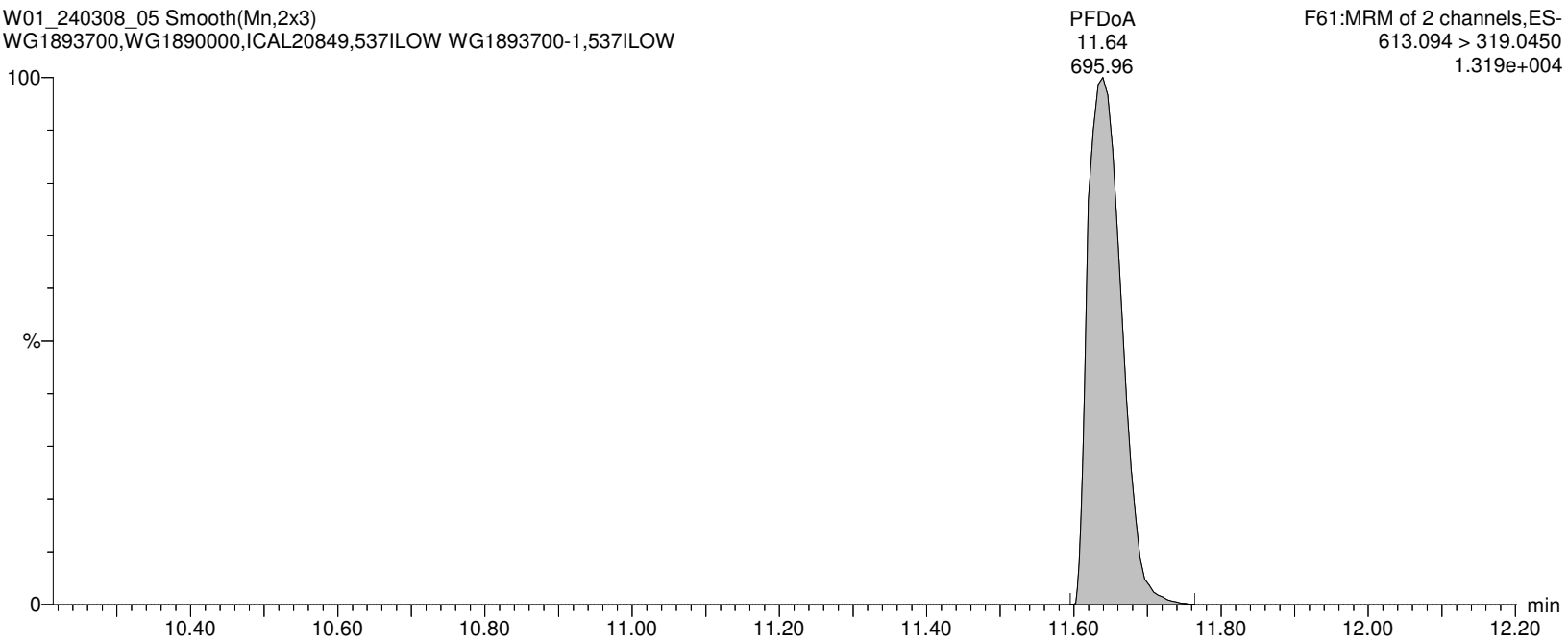

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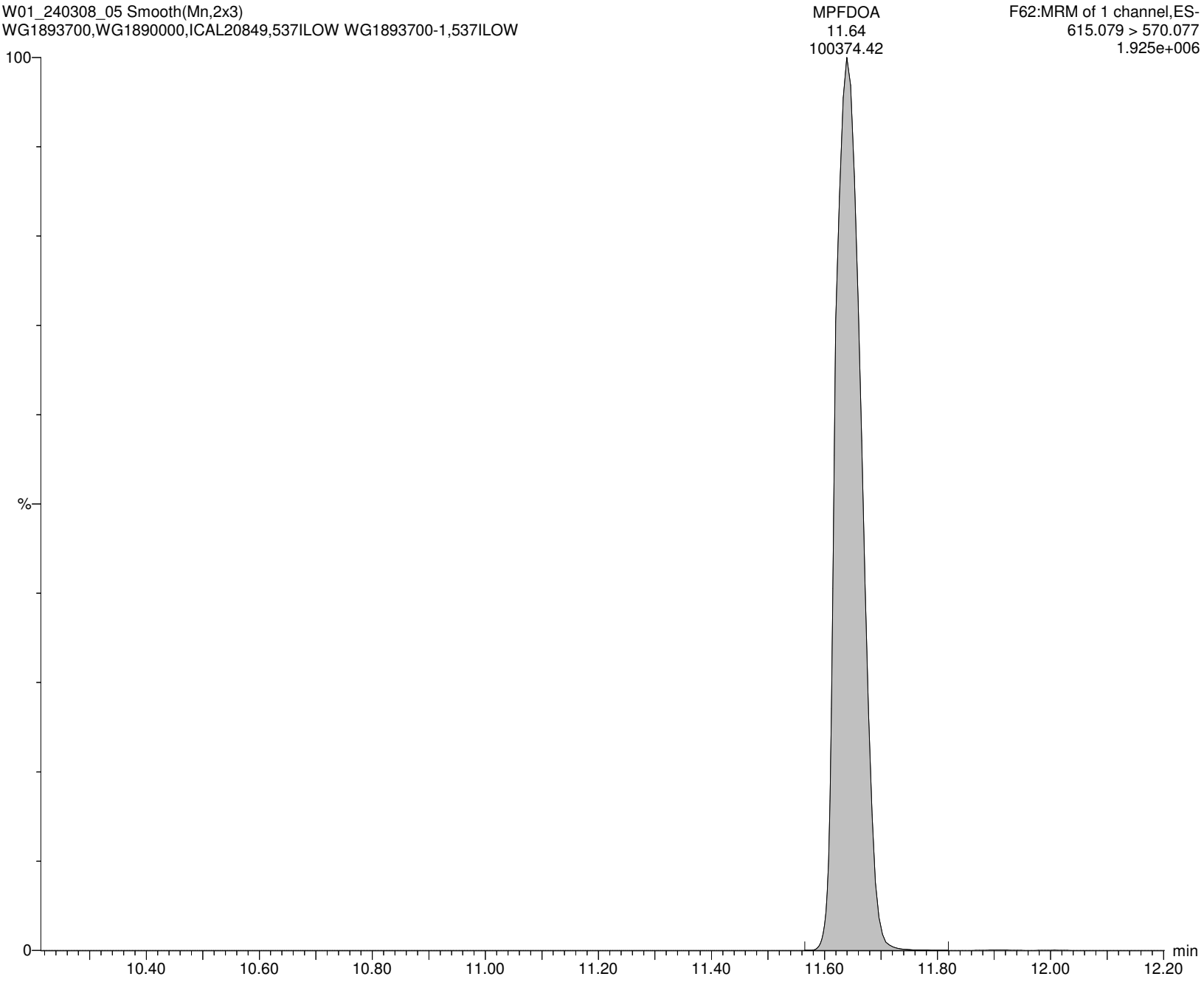

all concentration units in (ng/mL)

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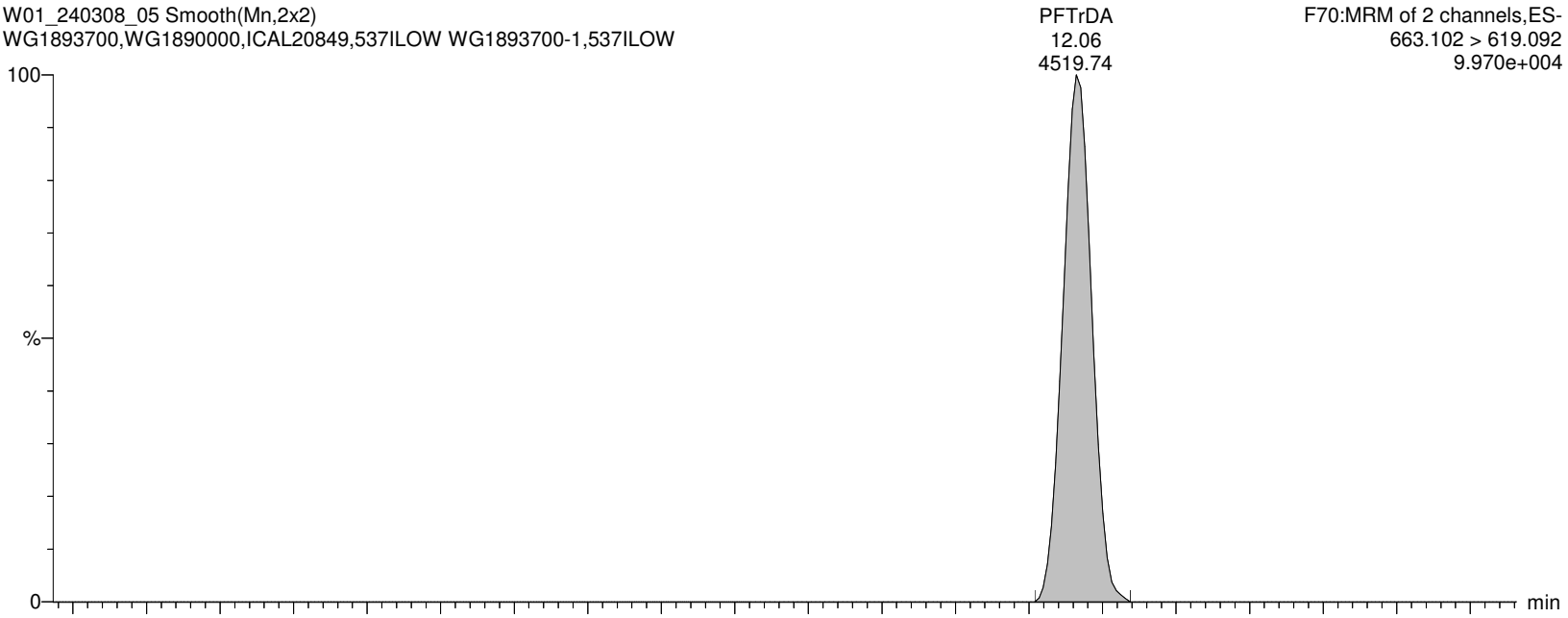

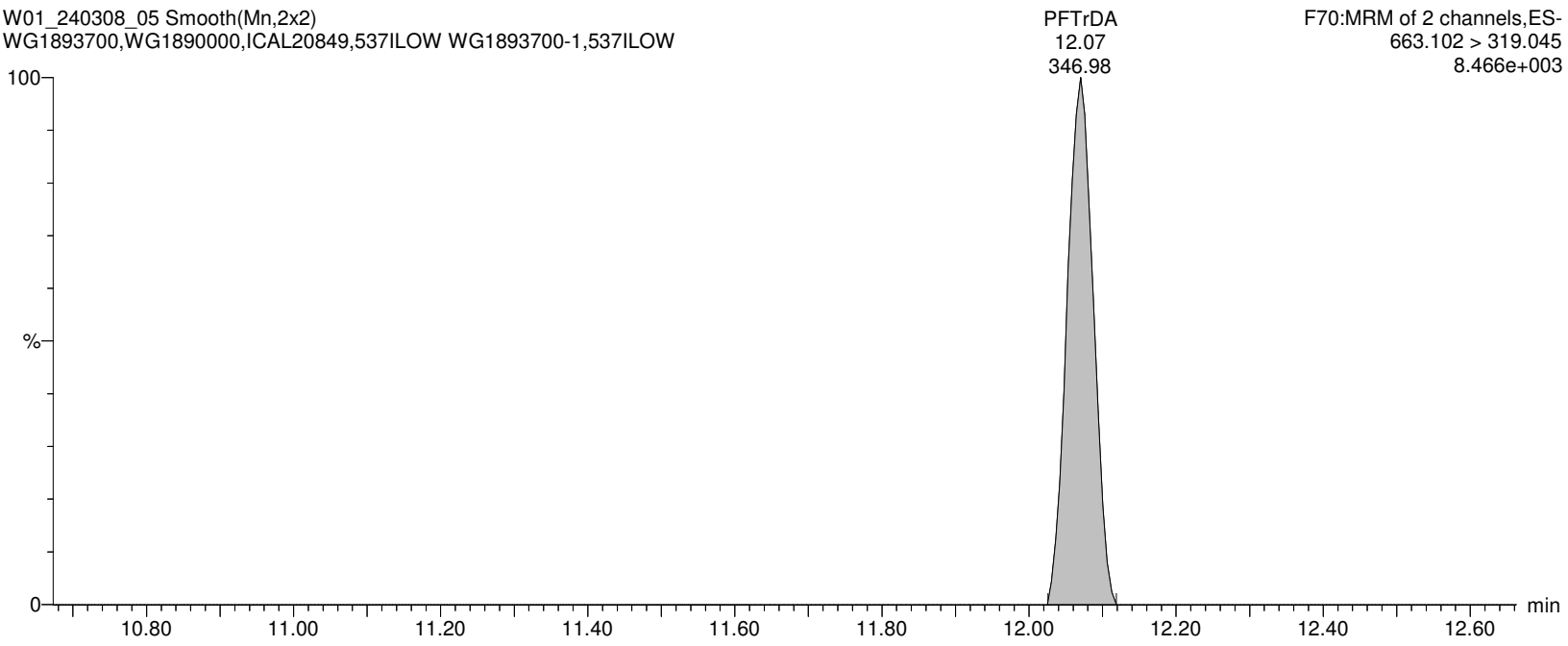

all concentration units in (ng/mL)

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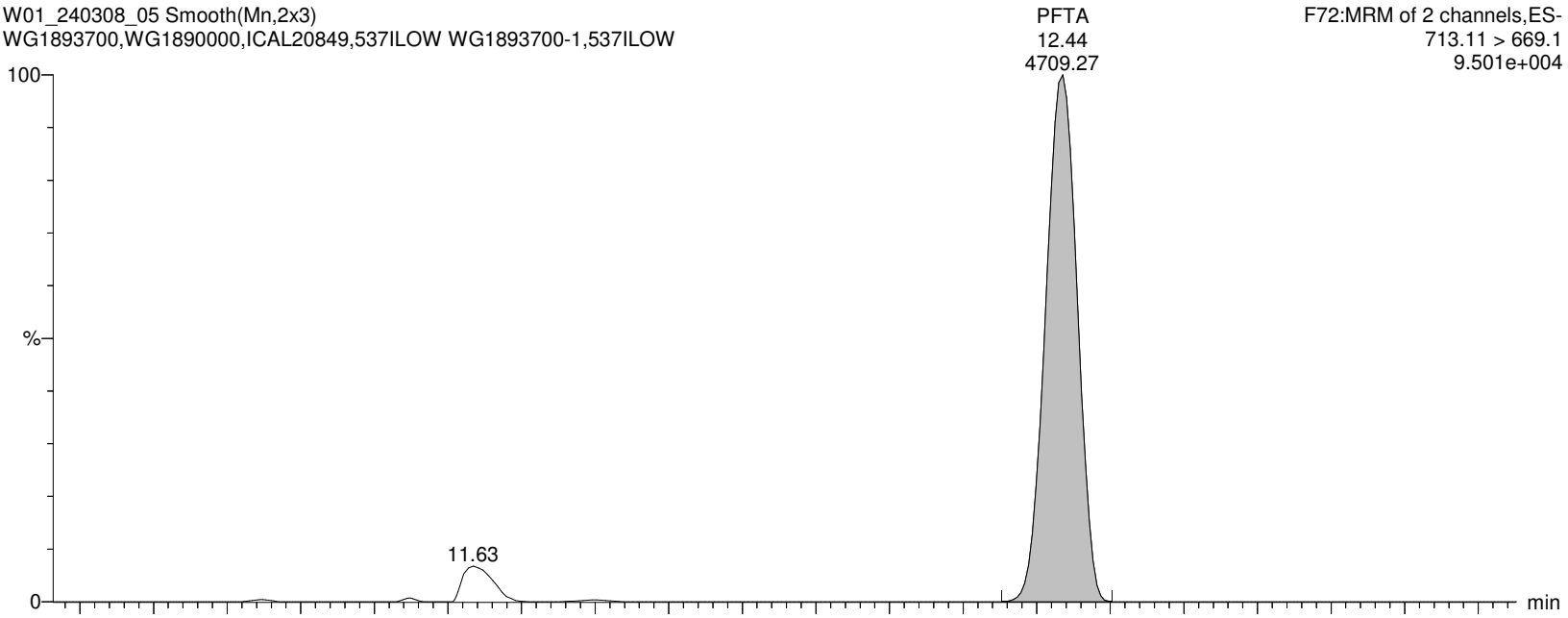

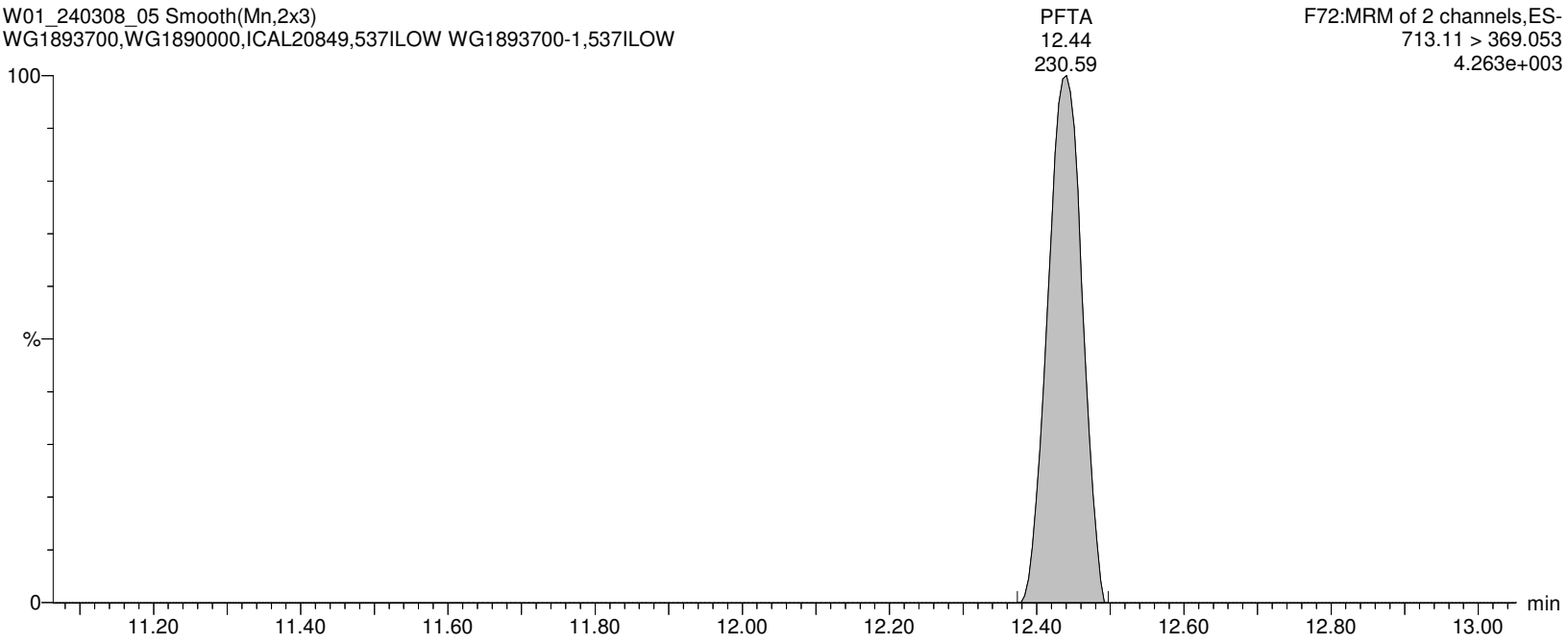

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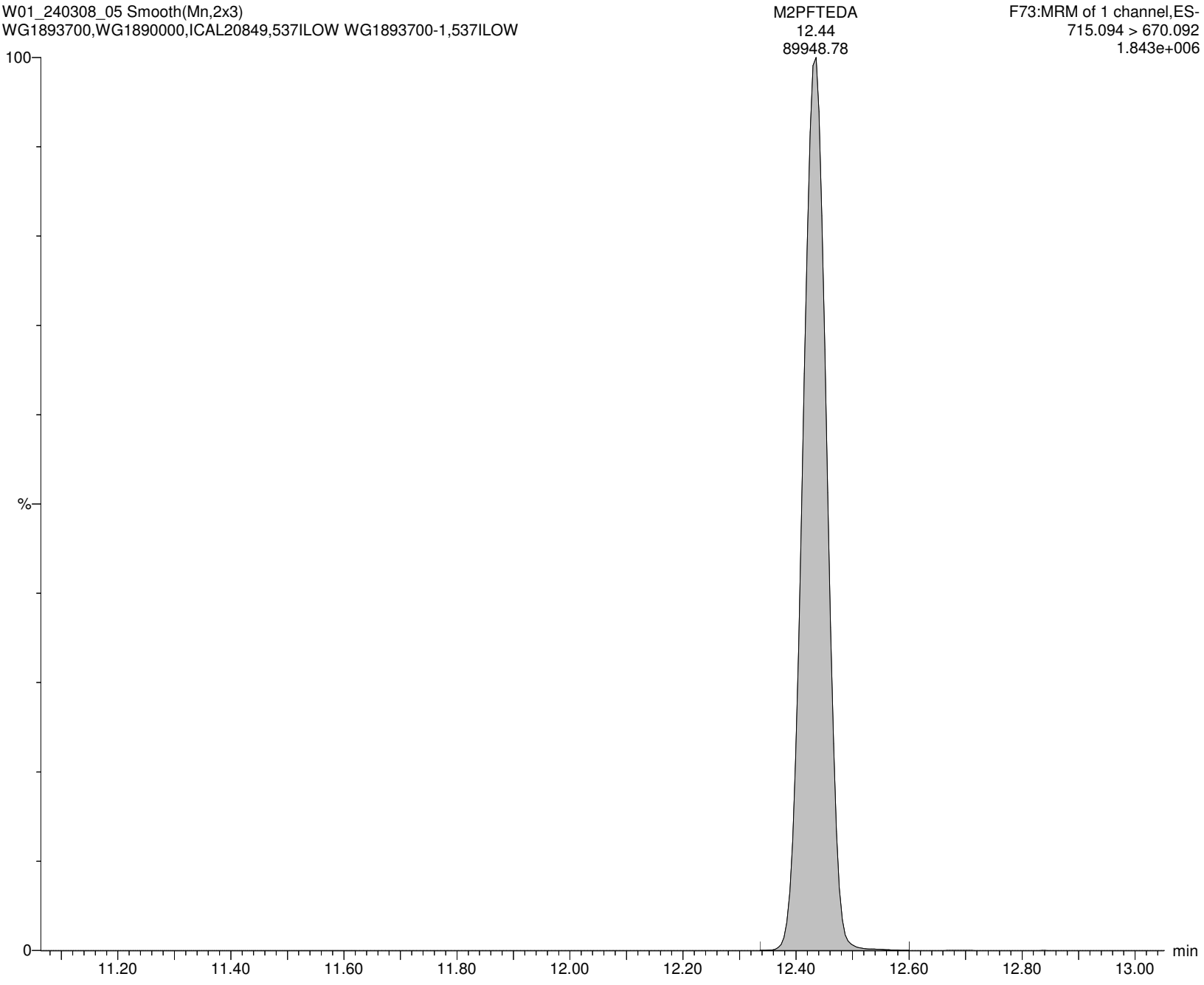

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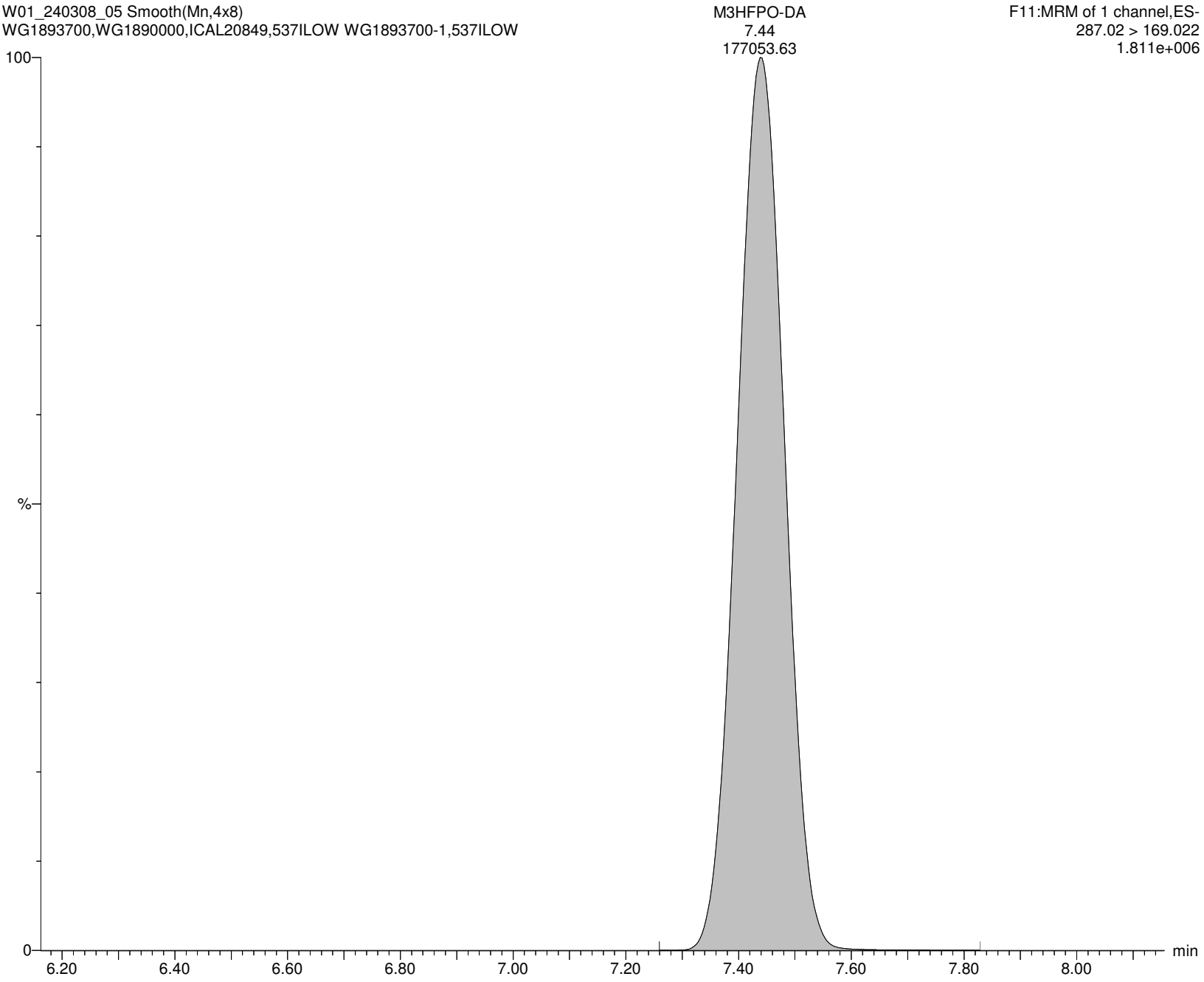

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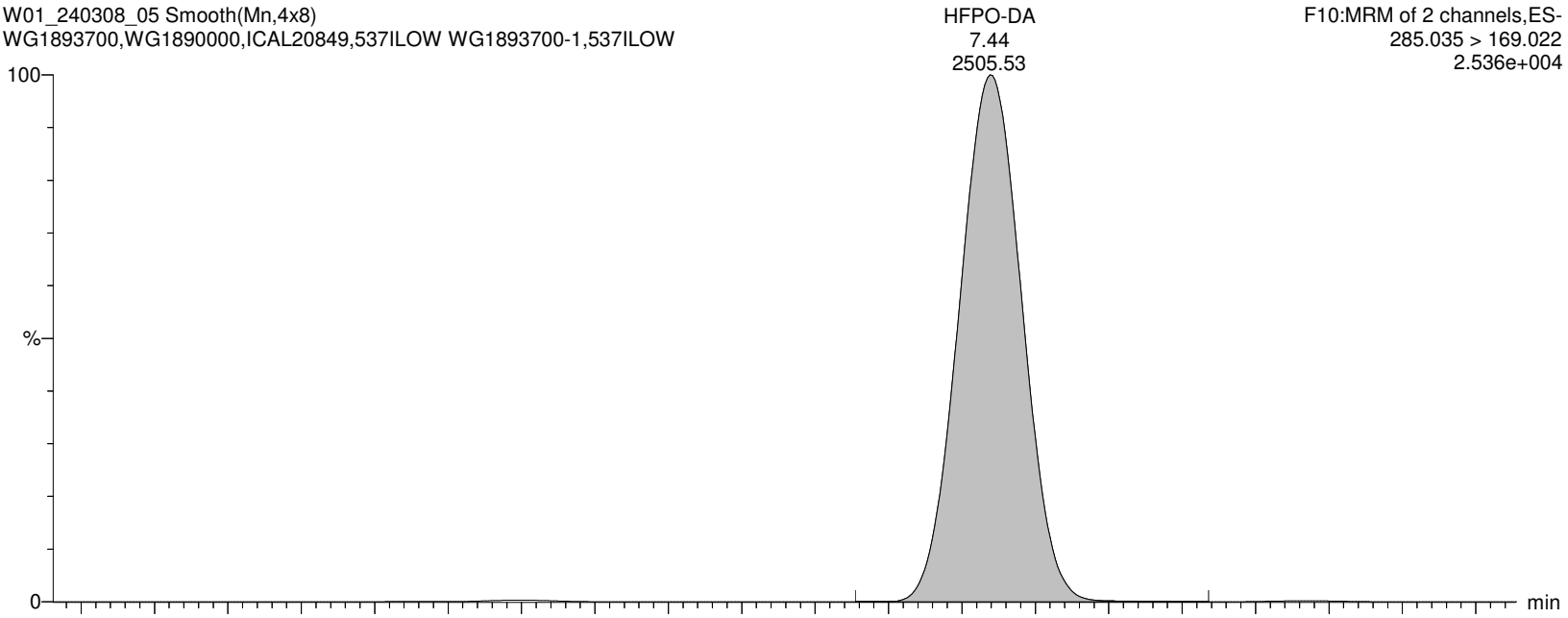

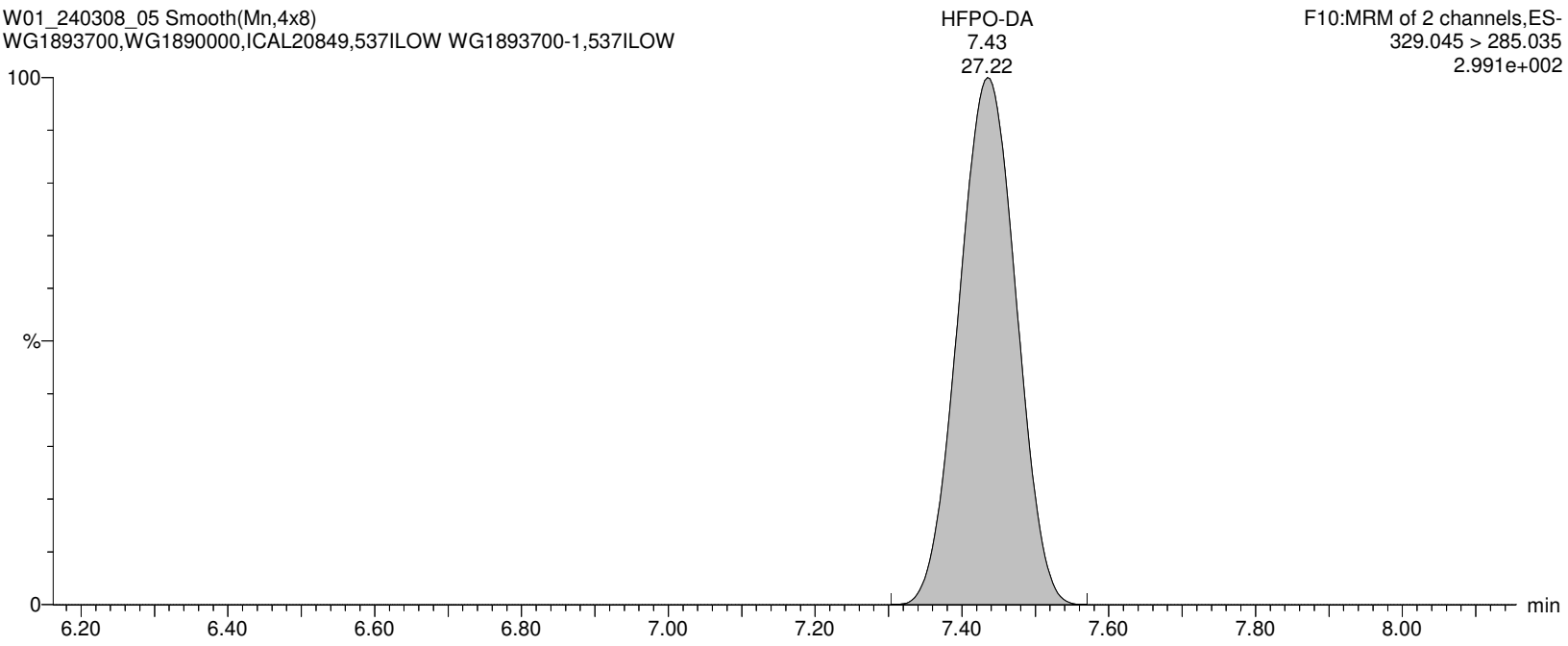

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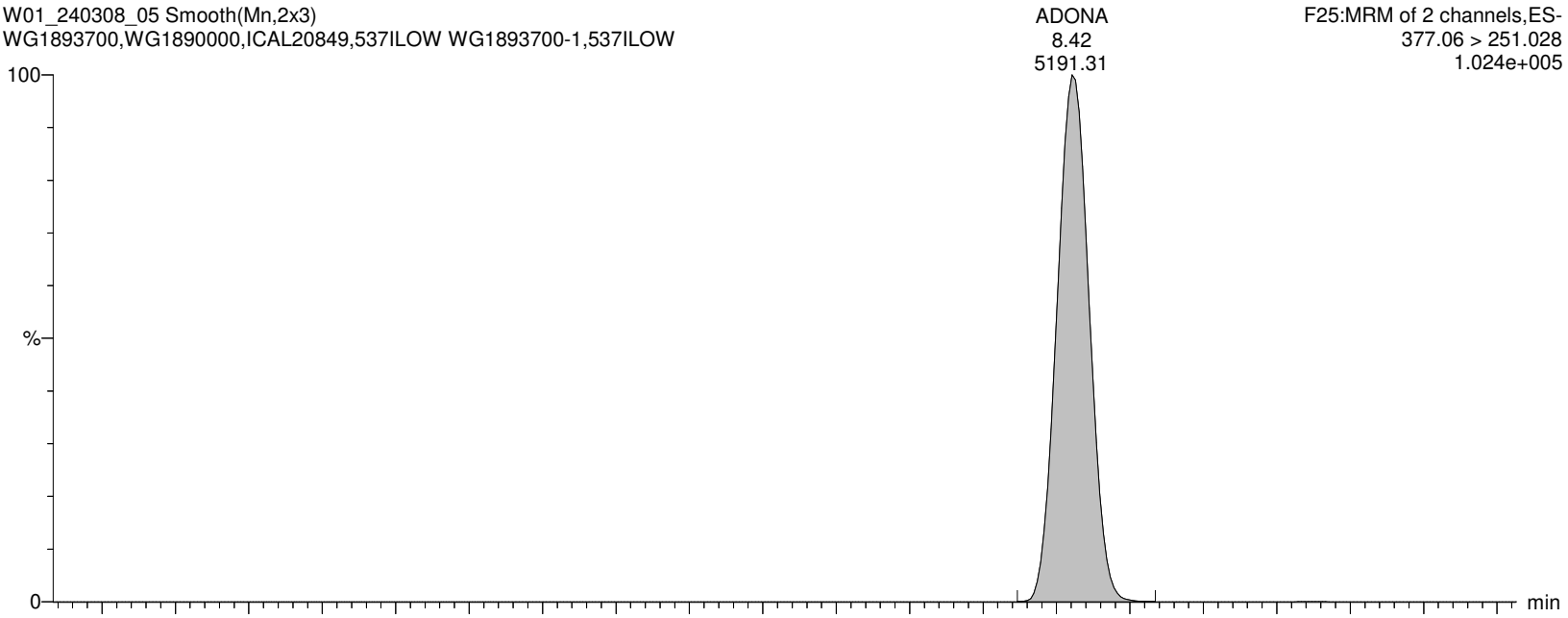

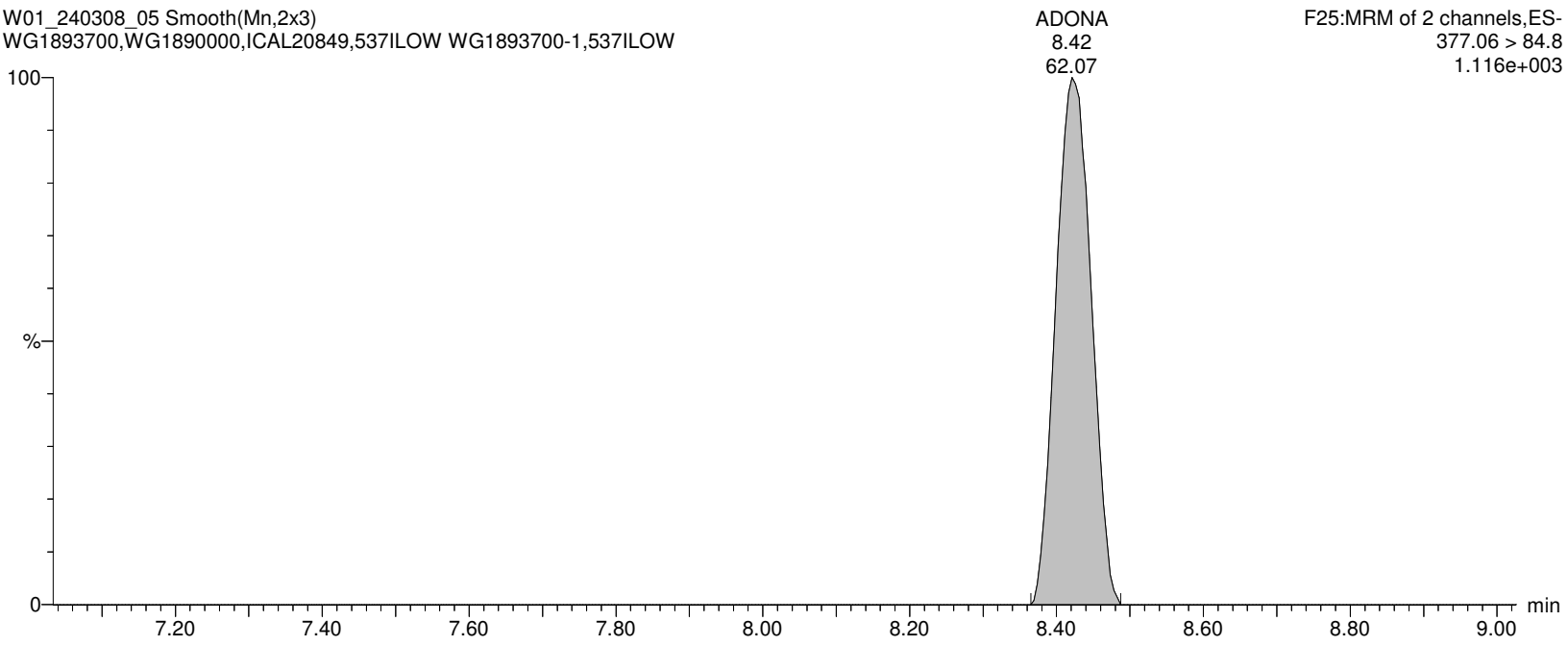

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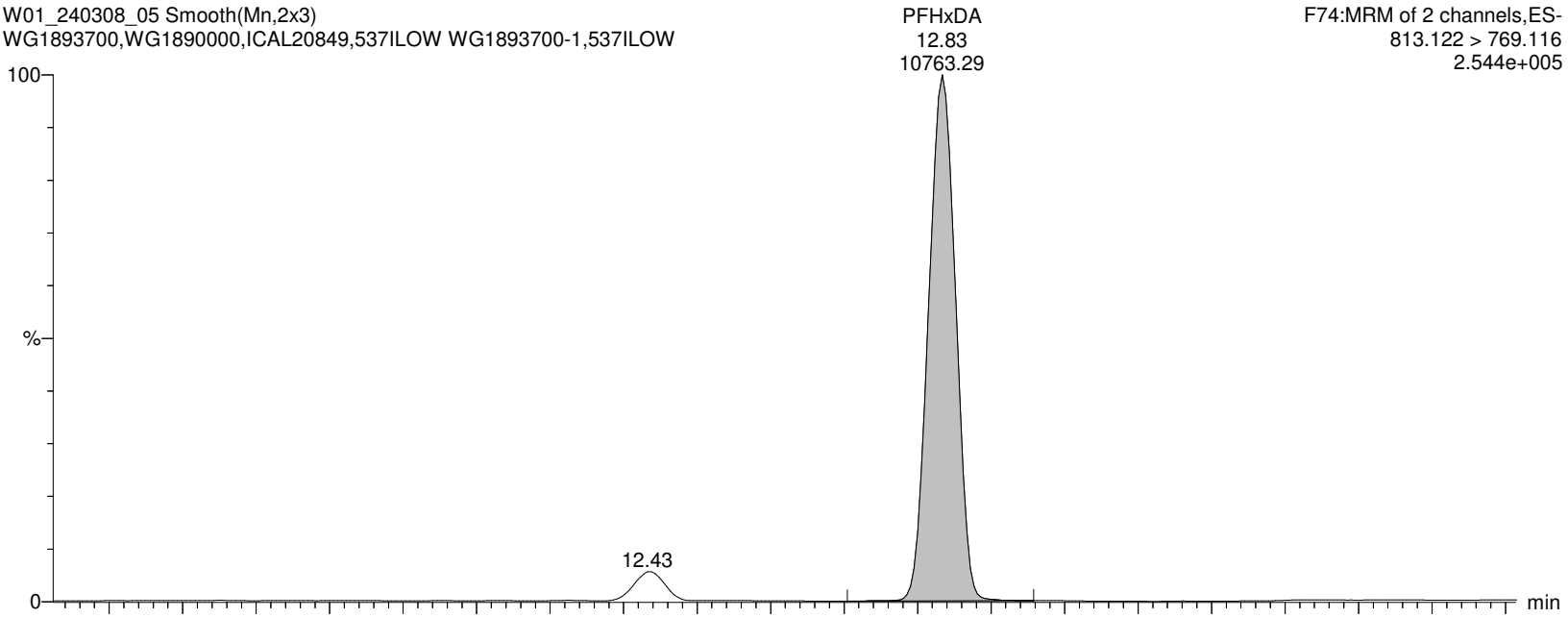
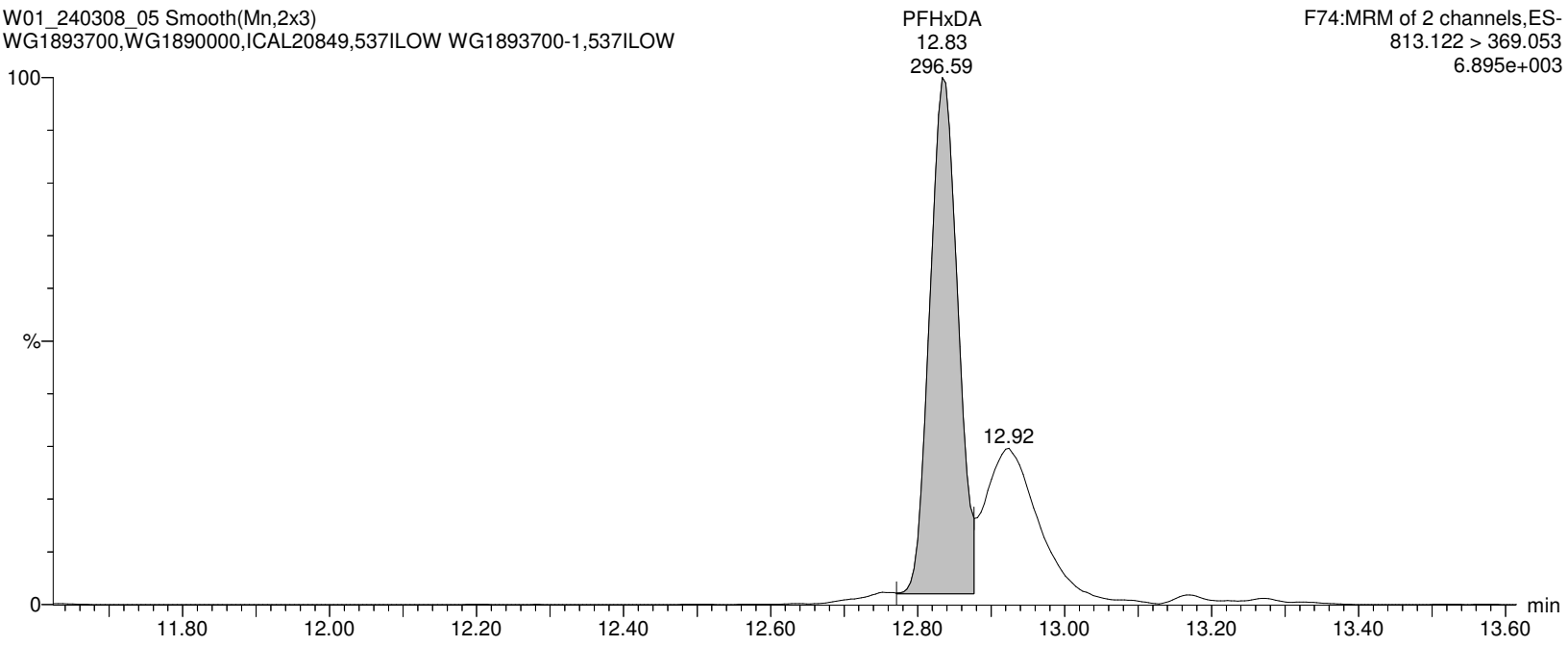
PFHxDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 06:25:20 Eastern Standard Time

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ID: WG1893700-1,537ILOW
Date: 08-Mar-2024
Time: 06:05:40
Description: WG1893700,WG1890000,ICAL20849,537ILOW
User: LCMS01:AC
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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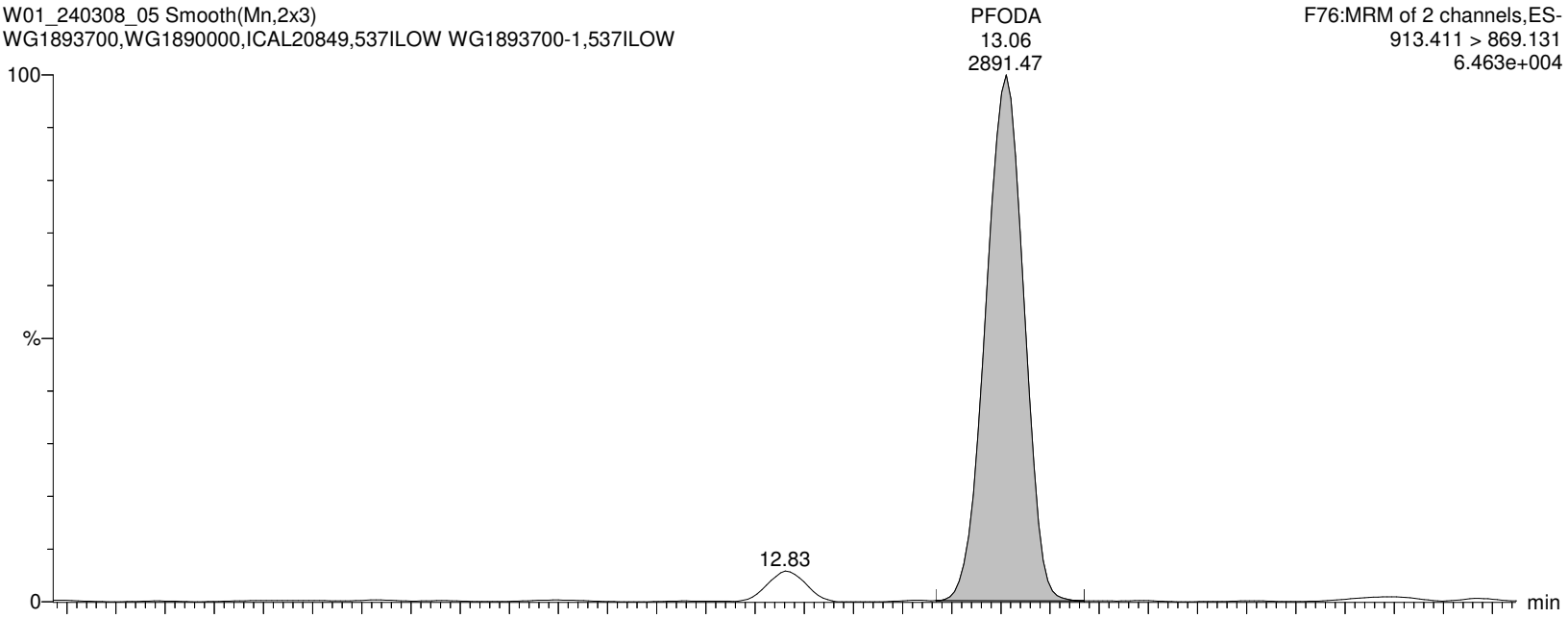

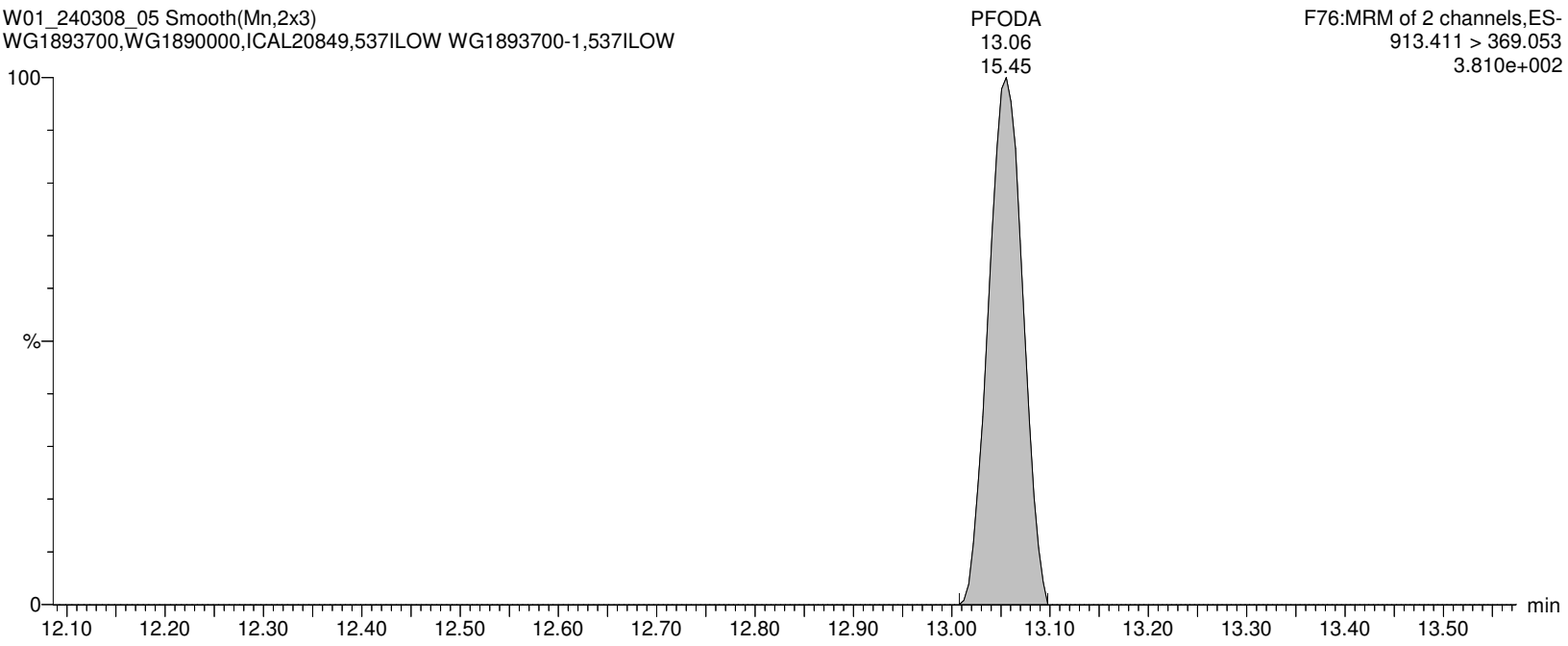

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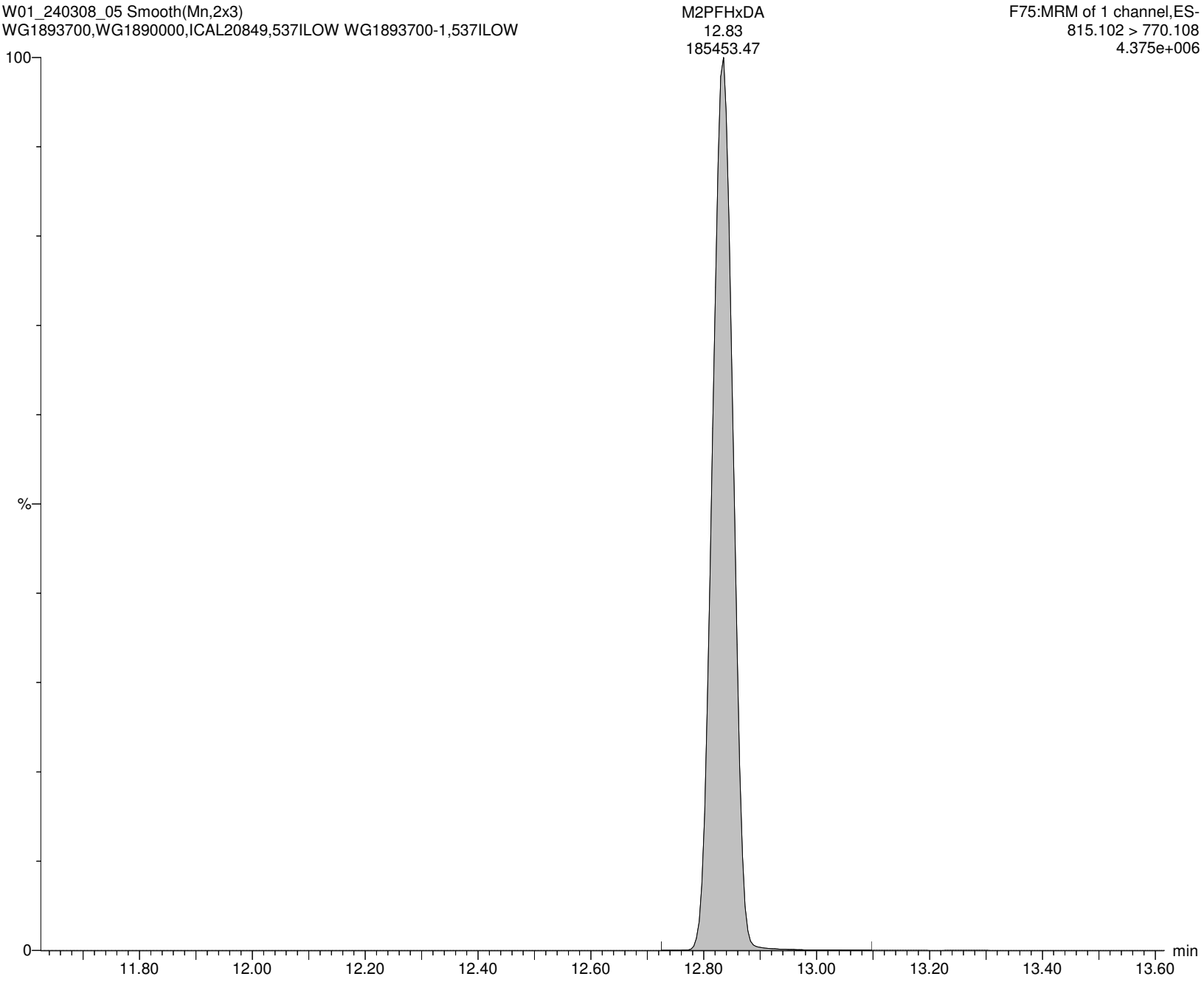

all concentration units in (ng/mL)

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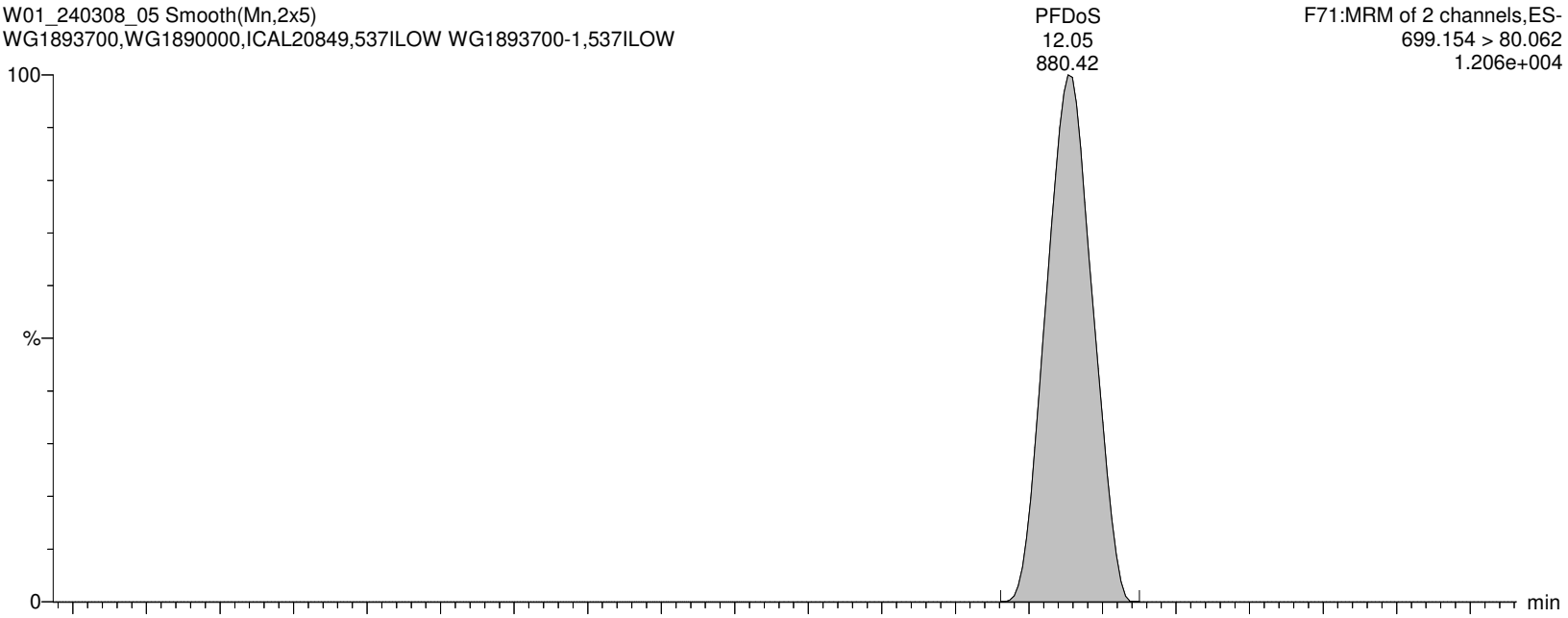
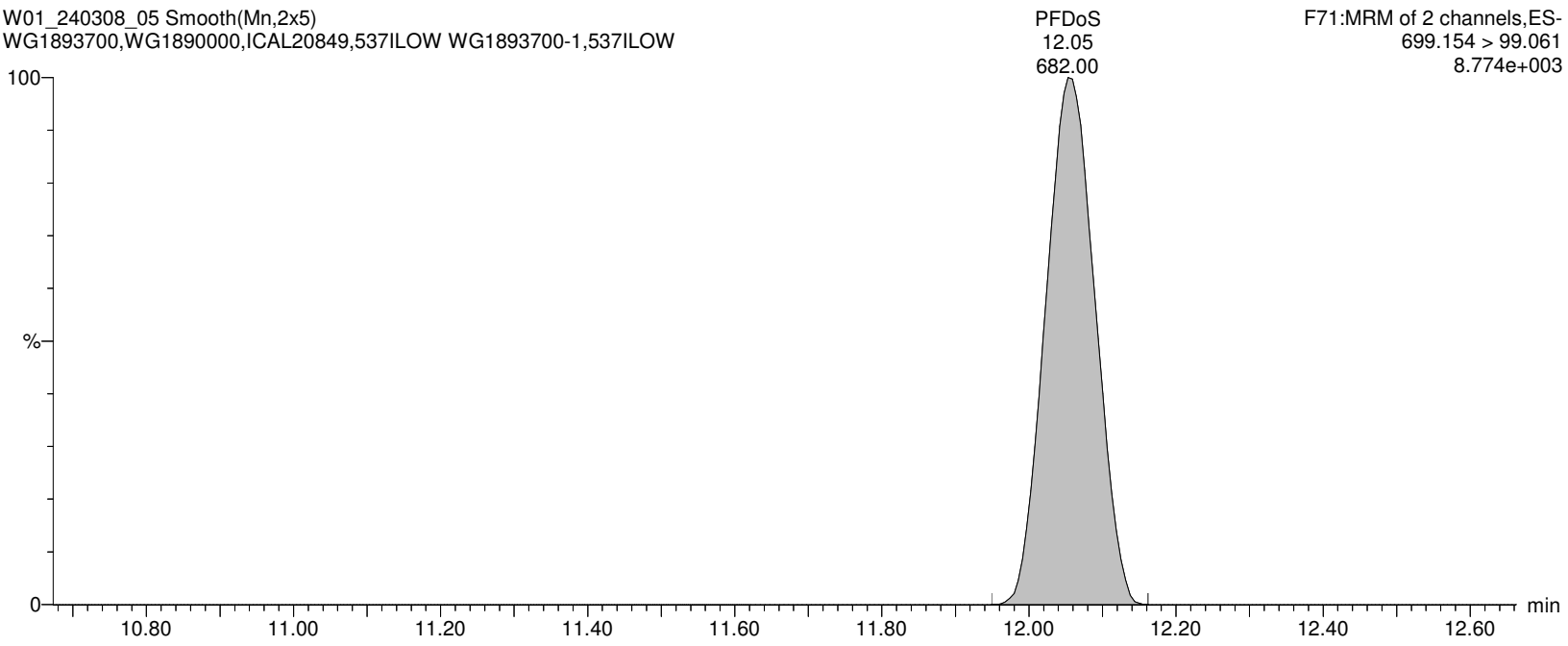
PFDoS





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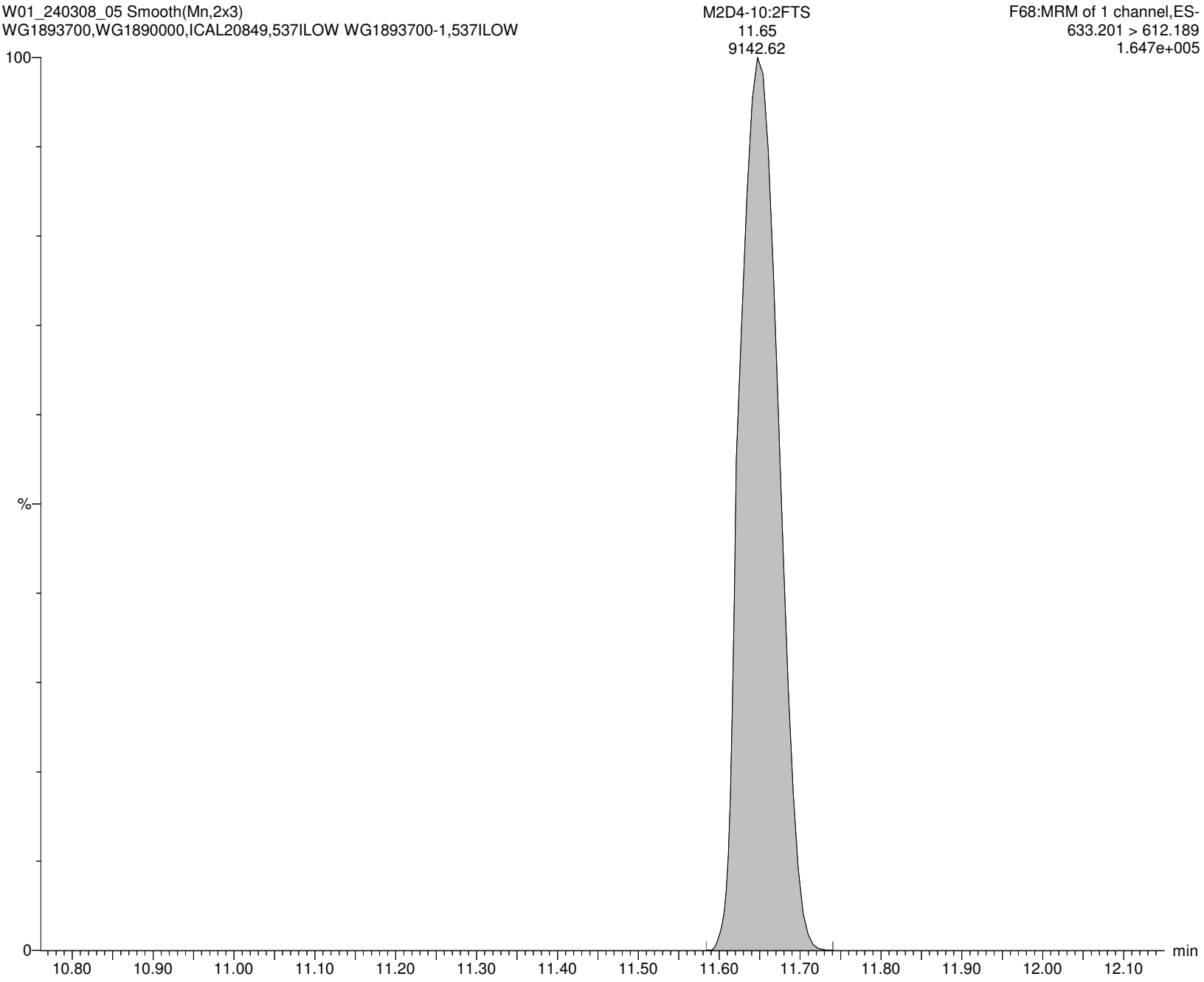
M2D4-10:2FTS



all concentration units in (ng/mL)

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Vial: 1:A,2
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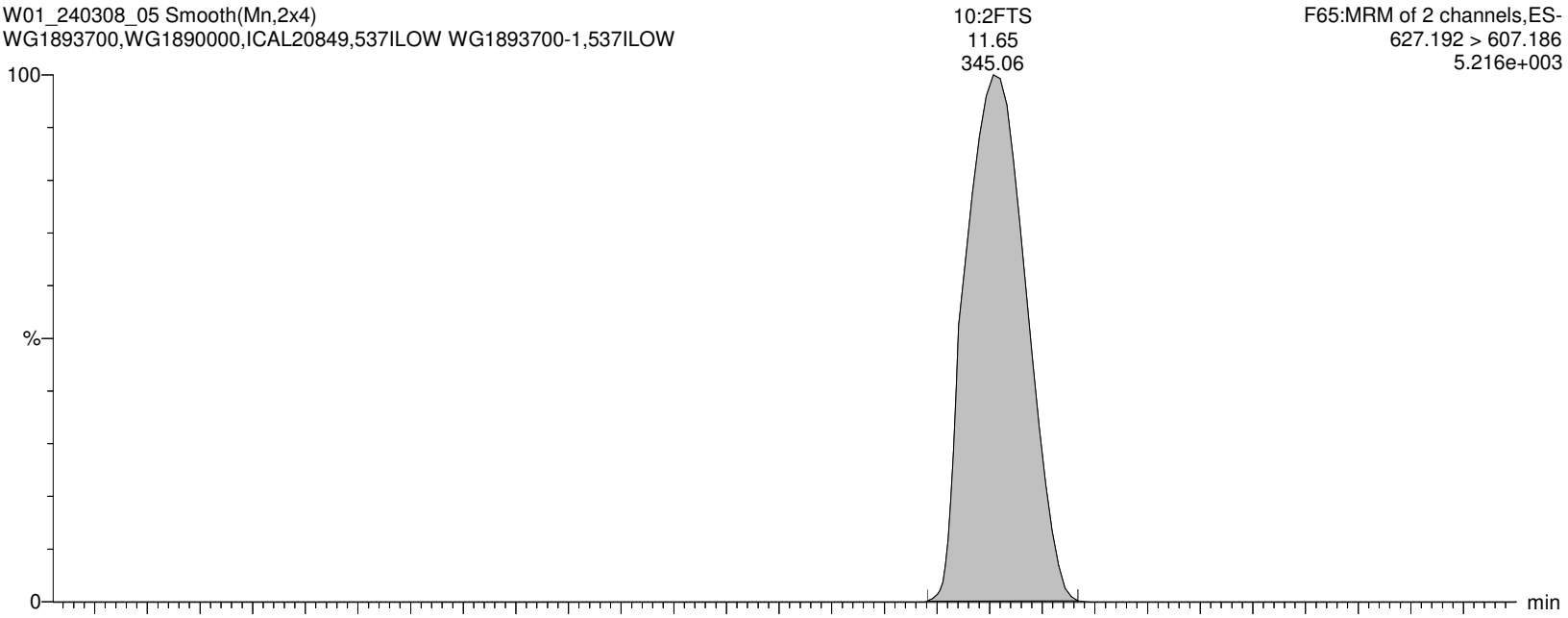
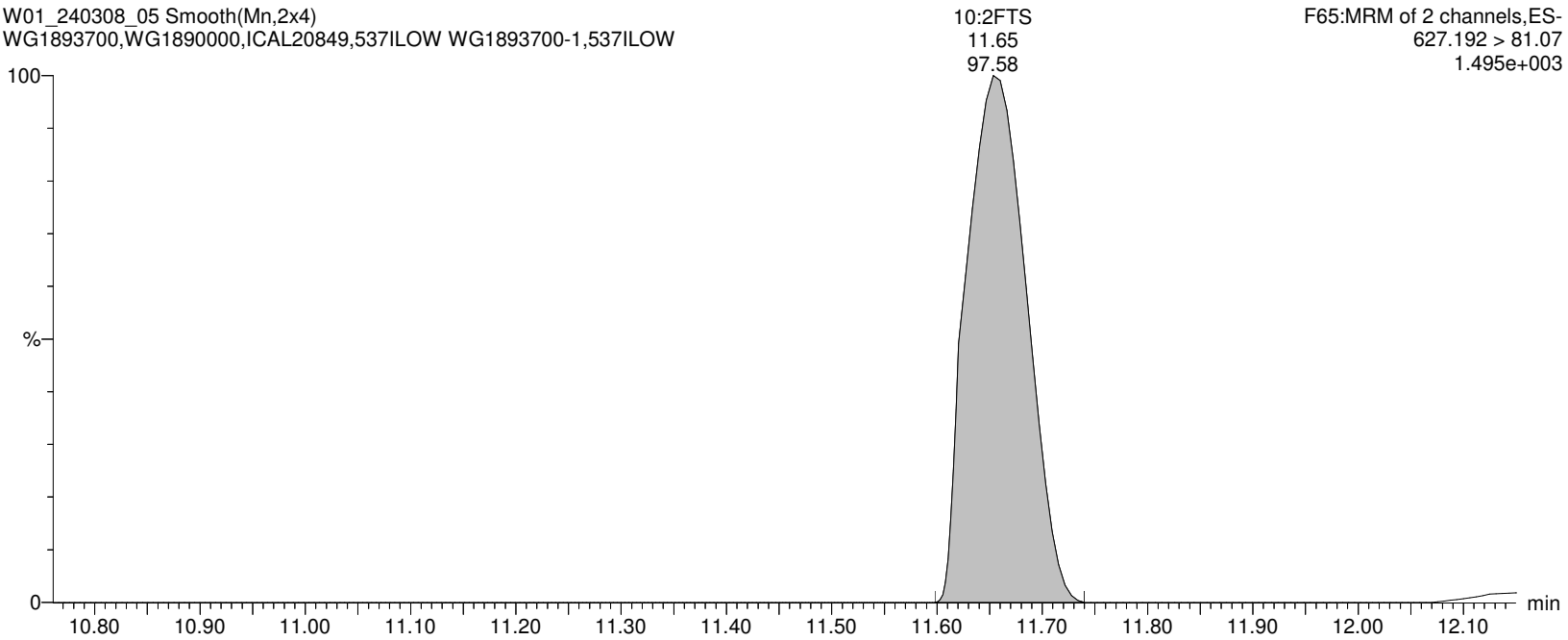
10:2FTS





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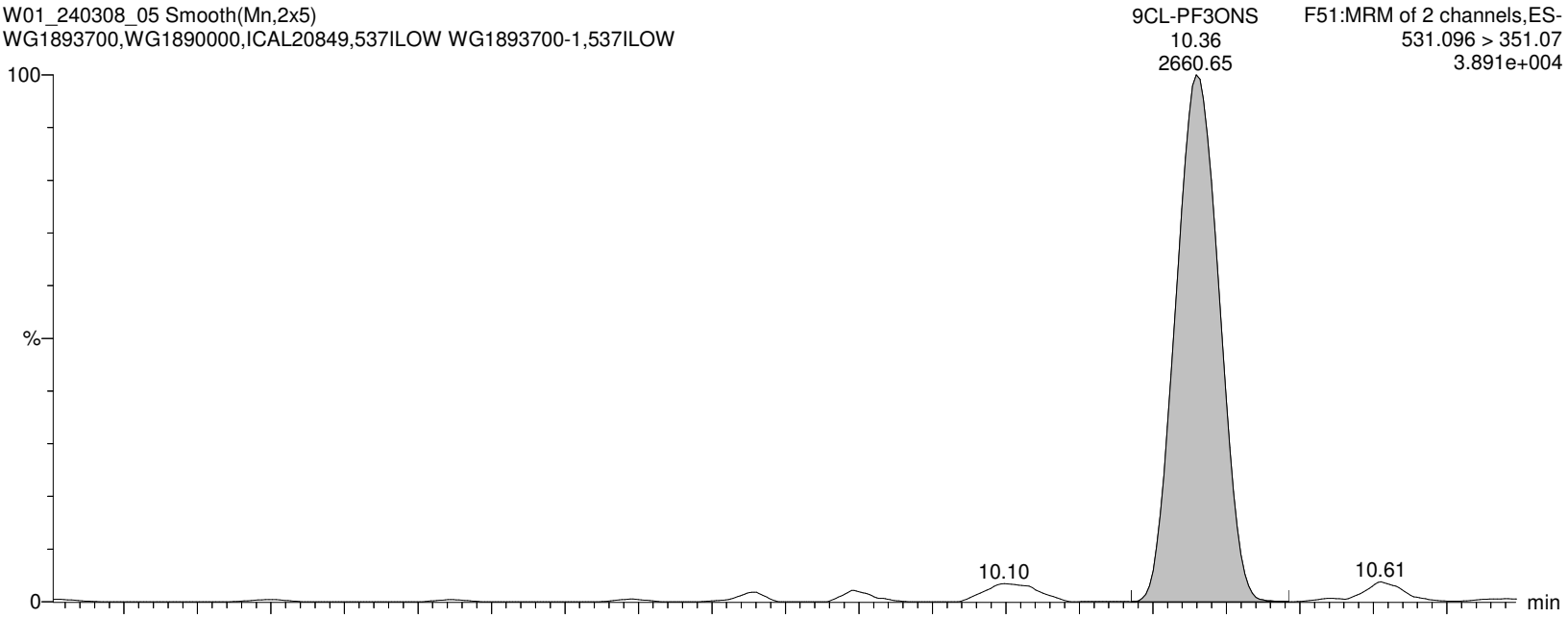
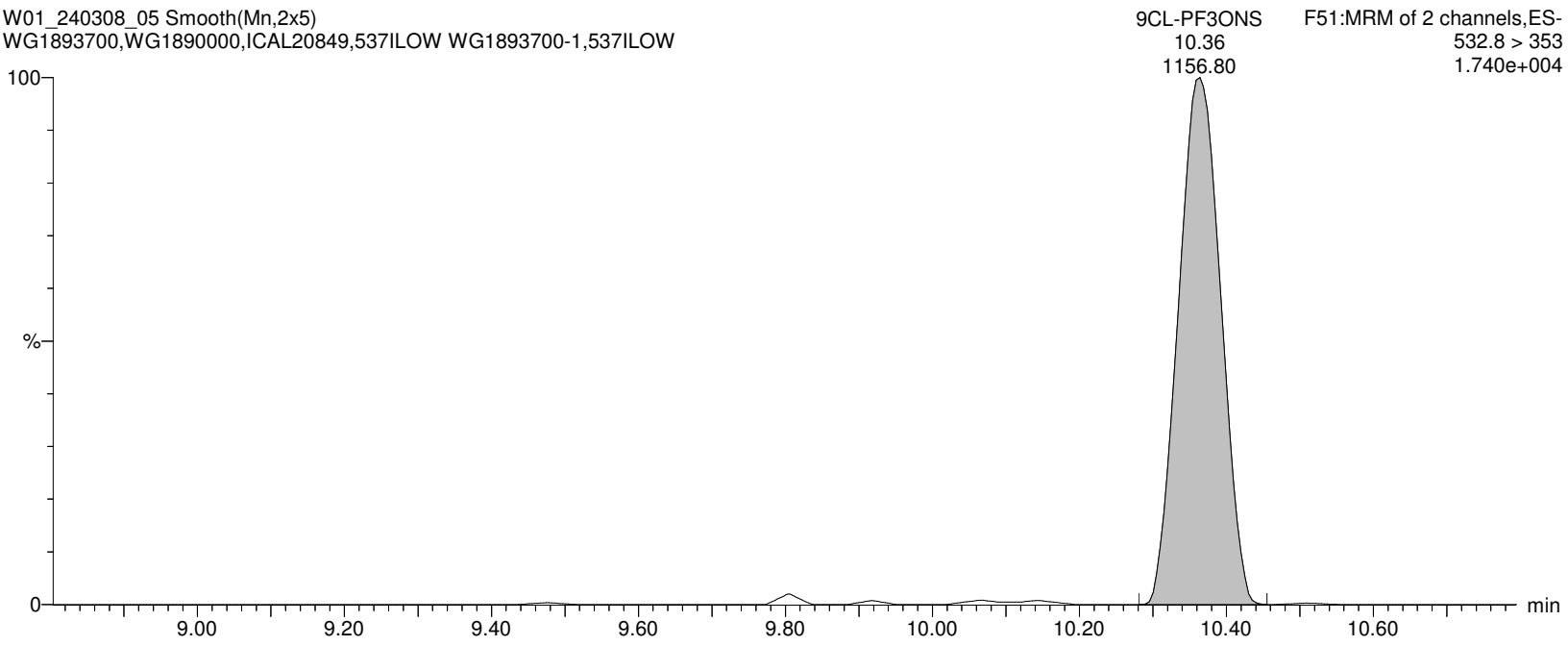
9CL-PF3ONS





all concentration units in (ng/mL)

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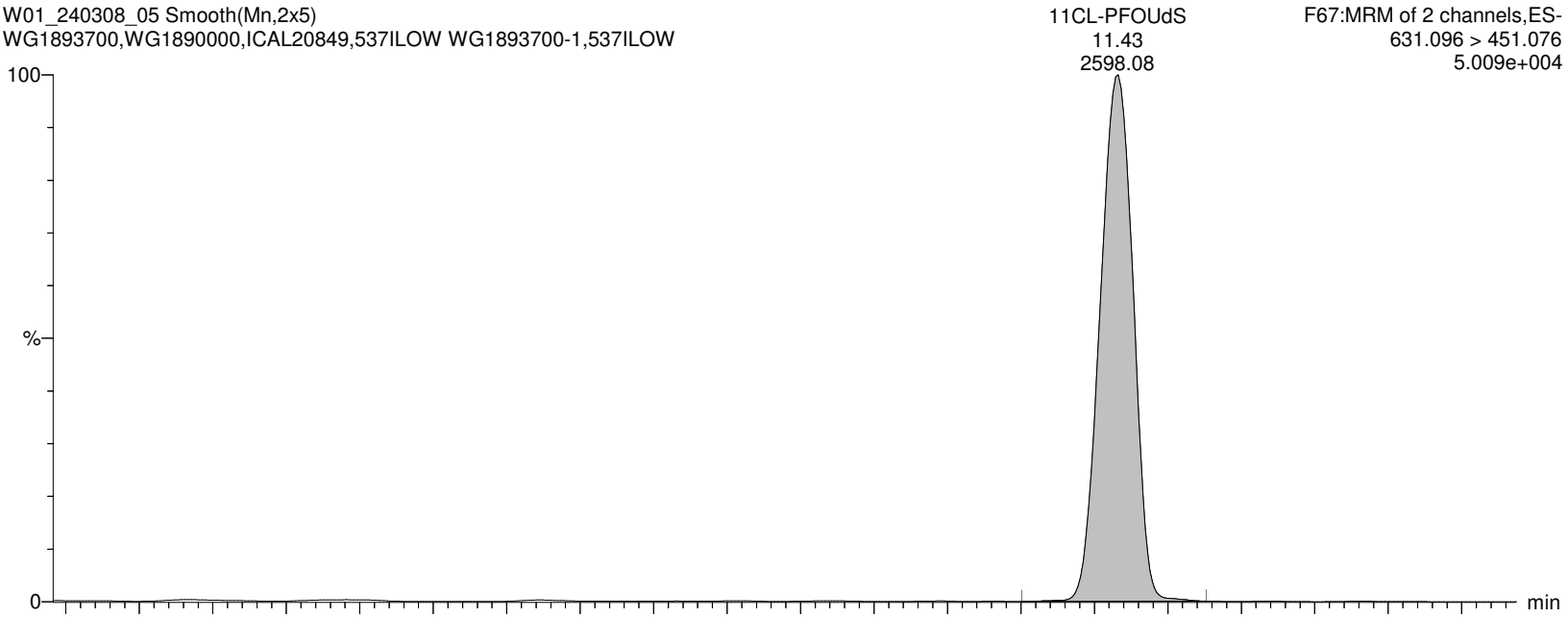
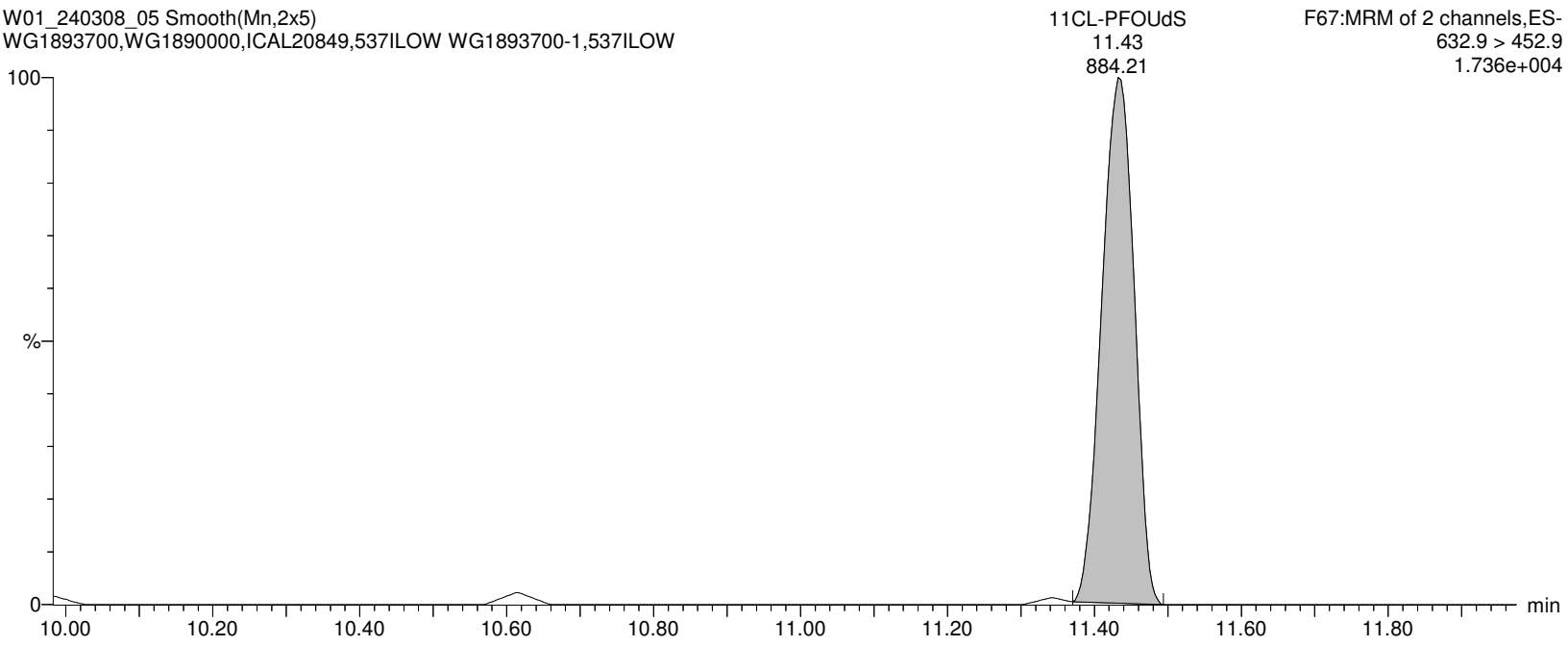
11CL-PFOUdS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
Printed: Friday, March 08, 2024 14:42:06 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

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Name: W01_240308_15
Date: 08-Mar-2024
Time: 08:55:30
Description: WG1893700,WG1890000,ICAL20849,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	52362		10.017		na	100.2
2	M3PFBA	INT STD	2.24	216.009 > 171.999	54109		7.055		na	70.6
3	MPFBA	INT STD	2.24	217.001 > 171.999	57712		9.374		na	93.7
4	PFPeA	2706-90-3	5.15	263.039 > 219.03	63140		9.633		na	96.3
5	M5PFPEA	INT STD	5.15	268.001 > 222.999	64840		10.086		na	100.9
6	PFBS	375-73-5	5.79	299.092 > 80.062	21049		9.039	1.79	NO	101.9
7	M3PFBS	INT STD	5.79	302.069 > 80.062	21018		9.081		na	97.4
8	4:2FTS	757124-72-4	6.93	327.146 > 307.139	5795		8.733	1.78	NO	93.2
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	6163		9.035		na	96.3
10	PFHxA	307-24-4	7.01	313.047 > 269.037	80875		10.343	13.85	NO	103.4
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	82340		10.054		na	100.5
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	21866		8.755	1.60	NO	93.0
13	PFHpA	375-85-9	8.27	363.055 > 319.045	81935		10.253	4.17	NO	102.5
14	M4PFHpA	INT STD	8.27	367.025 > 322.022	79532		9.127		na	91.3
15	br-PFHxS	355-46-4	8.19	399.107 > 80.062	3849	M5,M7	1.592	1.93	NO	92.1
16	L-PFHxS	355-46-4	8.43	399.107 > 80.062	16821		6.712	1.50	NO	90.6
17	PFHxS	355-46-4		399.107 > 80.062	20670		8.305		na	
18	M3PFHxS	INT STD	8.43	402.084 > 80.062	21879		9.827		na	103.7
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.22	413.063 > 369.053	91892		9.676	9.24	NO	96.8
21	PFOA	335-67-1		413.063 > 369.053	91892		9.676		na	
22	M8PFOA	INT STD	9.22	421.002 > 376.	92372		9.756		na	97.6
23	M2PFOA	INT STD	9.22	415.048 > 370.045	93550		6.302		na	63.0
24	6:2FTS	27619-97-2	9.17	427.161 > 407.155	5889		9.548	3.08	NO	100.4
25	M2-6:2FTS	INT STD	9.17	429.146 > 409.14	6995		8.927		na	93.9
26	PFHpS	375-92-8	9.30	449.115 > 80.062	23071		10.650	1.64	NO	111.8
27	PFNA	375-95-1	9.97	463.071 > 419.061	98114		10.269	5.34	NO	102.7
28	M9PFNA	INT STD	9.97	472.002 > 427.	94819		9.639		na	96.4
29	br-PFOS	1763-23-1	9.83	499.123 > 80.062	5880	M5,M7	1.952	3.83	NO	99.6
30	L-PFOS	1763-23-1	10.02	499.123 > 80.062	18207	M7	6.948	1.72	NO	94.9
31	PFOS	1763-23-1		499.123 > 80.062	24087		8.900		na	
32	M4PFOS	INT STD	10.02	503.093 > 80.062	24369		6.580		na	68.5
33	M8PFOS	INT STD	10.02	507.062 > 80.062	23411		9.005		na	93.9
34	PFDA	335-76-2	10.61	513.078 > 469.069	77756		10.030	3.91	NO	100.3
35	M2PFDA	INT STD	10.61	515.063 > 470.061	83961		6.258		na	62.6
36	M6PFDA	INT STD	10.61	519.033 > 474.03	79652		9.516		na	95.2
37	8:2FTS	39108-34-4	10.60	527.177 > 507.171	5864		10.340	2.57	NO	107.7
38	M2-8:2FTS	INT STD	10.60	529.162 > 509.155	6740		8.134		na	84.7
39	PFNS	68259-12-1	10.64	549.131 > 80.062	24182		9.331	2.13	NO	97.0

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.98	573.22 > 419.061	13176		10.248		na	102.5
41	br-NMeFOSAA	2355-31-9	10.82	570.202 > 419.061	808	M5,M7	2.075	1.03	NO	86.5
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	6721		7.412	2.15	NO	97.5
43	NMeFOSAA	2355-31-9		570.202 > 419.061	7529		9.487		na	
44	PFUnA	2058-94-8	11.17	563.086 > 519.076	89832		9.473	6.10	NO	94.7
45	M7-PFUDA	INT STD	11.17	570.033 > 525.031	91635		10.048		na	100.5
46	PFDS	335-77-3	11.18	598.926 > 80.062	23169		9.918	1.96	NO	102.8
47	FOSA	754-91-6	10.93	498.146 > 78.07	62701		9.438	42.67	NO	94.4
48	M8FOSA	INT STD	10.93	506.077 > 78.07	60233		9.786		na	97.9
49	d5-NEtFOSAA	INT STD	11.27	589.259 > 419.061	11639		9.605		na	96.0
50	br-NEtFOSAA	2991-50-6	11.12	584.229 > 419.061	741	M5,M7	1.689	0.66	NO	75.1
51	L-NEtFOSAA	2991-50-6	11.28	584.229 > 419.061	6528		6.996	1.31	NO	90.3
52	NEtFOSAA	2991-50-6		584.229 > 419.061	7269		8.686		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	95258		9.608	8.14	NO	96.1
54	MPFDOA	INT STD	11.65	615.079 > 570.077	91920		8.980		na	89.8
55	PFTrDA	72629-94-8	12.08	663.102 > 619.092	79050		11.827	8.13	NO	118.3
56	PFTA	376-06-7	12.44	713.11 > 669.1	91659		9.794	12.89	NO	97.9
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	84453		9.148		na	91.5
58	M3HFPO-DA	INT STD	7.43	287.02 > 169.022	155389		292.398		na	146.2
59	HFPO-DA	13252-13-6	7.43	285.035 > 169.022	46572		81.133	38.90	NO	81.1
60	ADONA	958445-44-8	8.44	377.06 > 251.028	95643		9.261	57.17	NO	98.0
61	PFHxDA		12.84	813.122 > 769.116	190652	M7	9.691	40.60	NO	96.9
62	PFODA		13.06	913.411 > 869.131	47721		8.545	68.55	NO	85.4
63	M2PFHxDA		12.84	815.102 > 770.108	179923		12.583		na	125.8
64	PFDoS		12.06	699.154 > 80.062	23020		10.004	1.61	NO	103.3
65	M2D4-10:2FTS		11.66	633.201 > 612.189	7593		21.288		na	108.6
66	10:2FTS		11.67	627.192 > 607.186	5380	M4,M7	9.071	2.87	NO	93.9
67	9CL-PF3ONS		10.38	531.096 > 351.07	53574		8.785	2.31	NO	94.2
68	11CL-PFOUdS		11.44	631.096 > 451.076	50273		8.564	2.85	NO	90.8

all concentration units in (ng/mL)

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Date: 08-Mar-2024
Time: 08:55:30
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User: LCMS01:AC
Vial: 1:A,3
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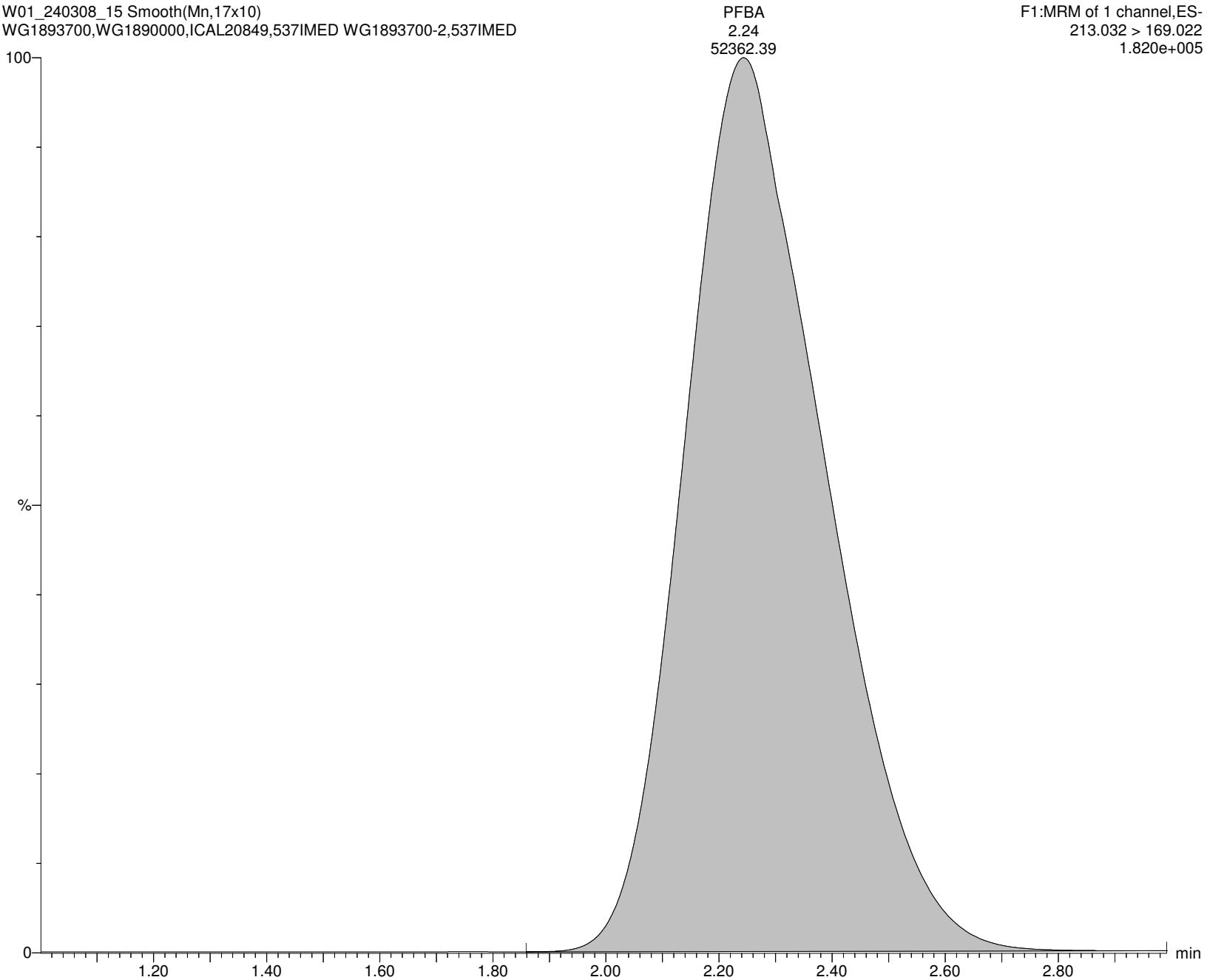

all concentration units in (ng/mL)

Alpha Analytical Inc.
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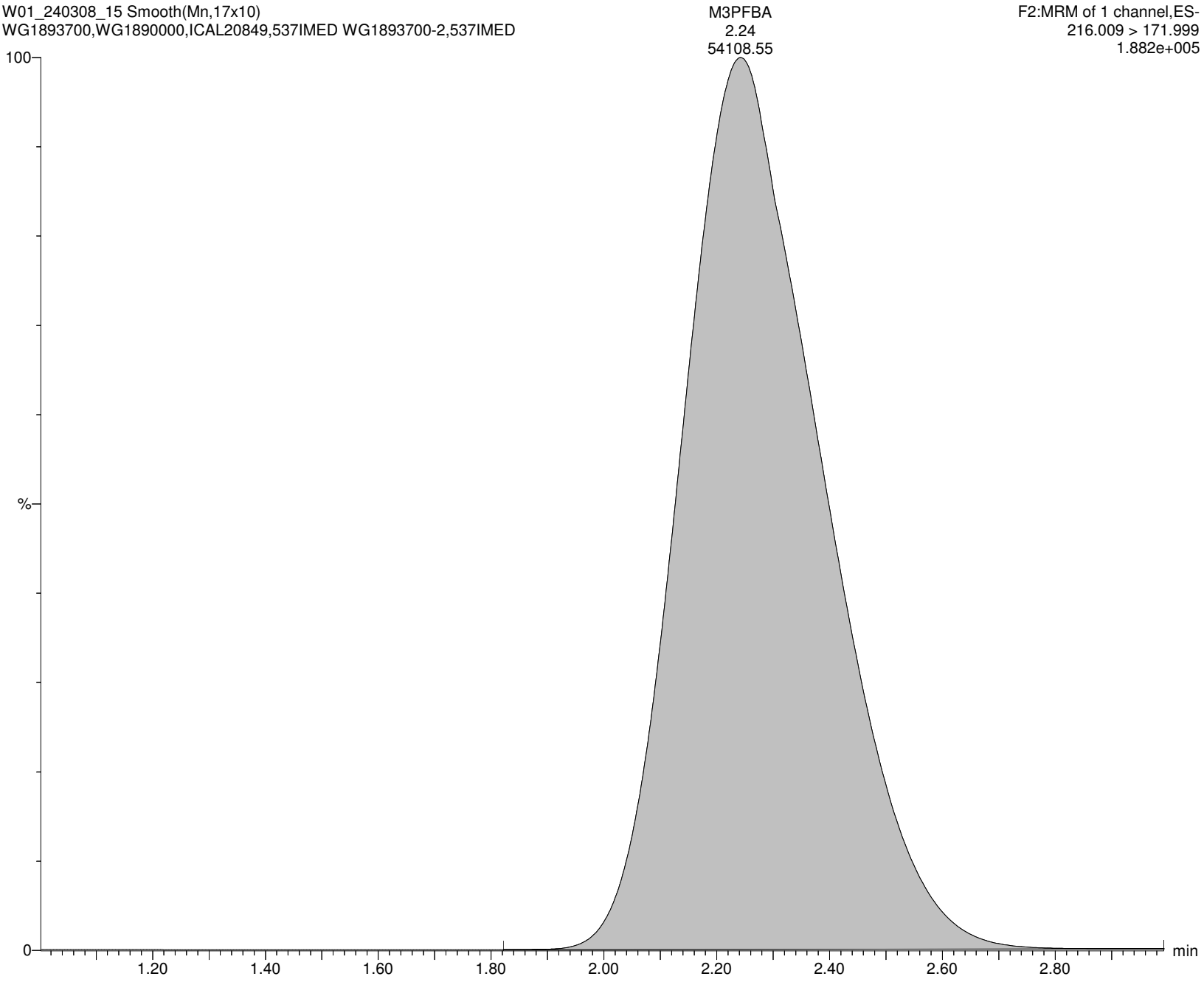

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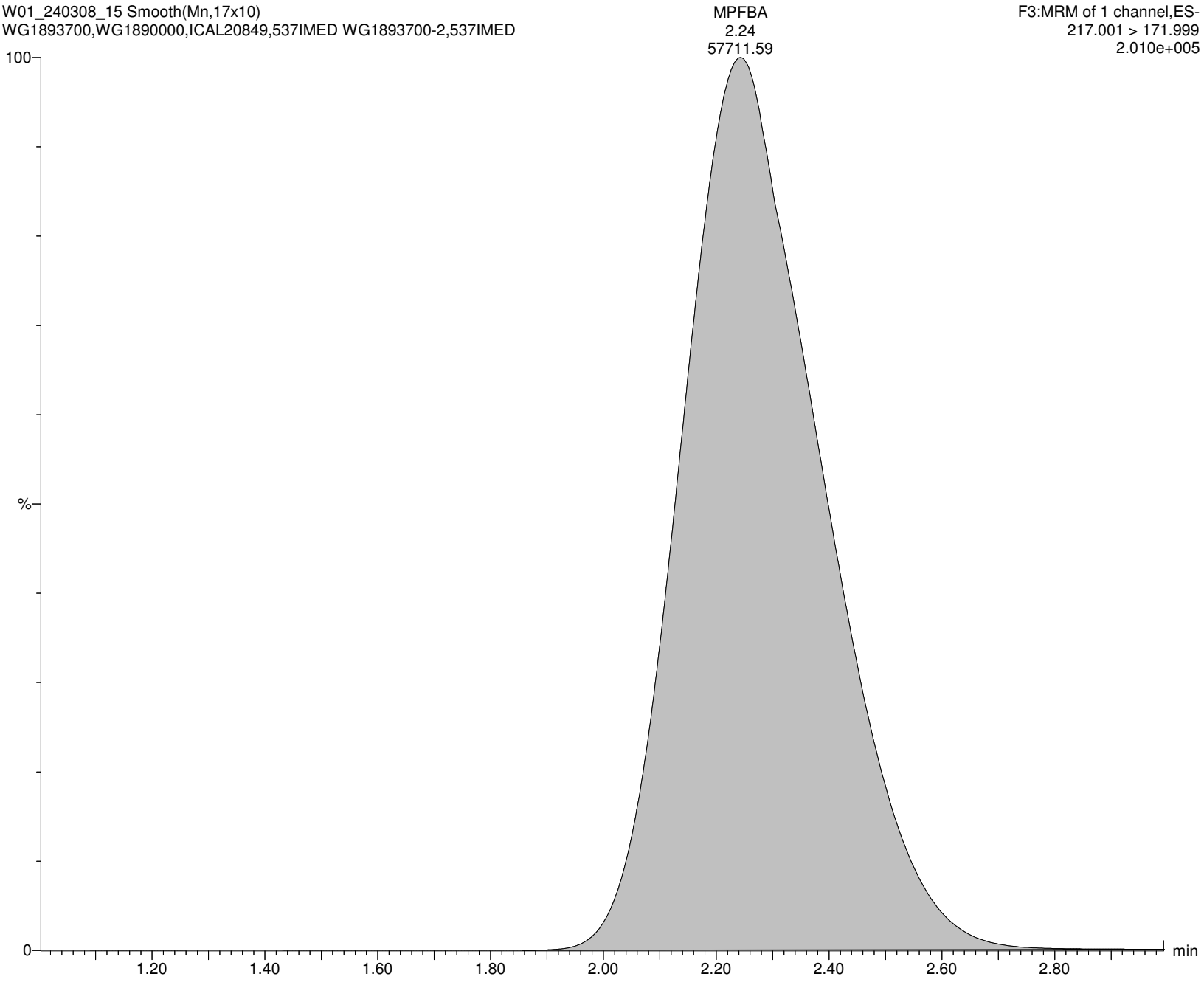

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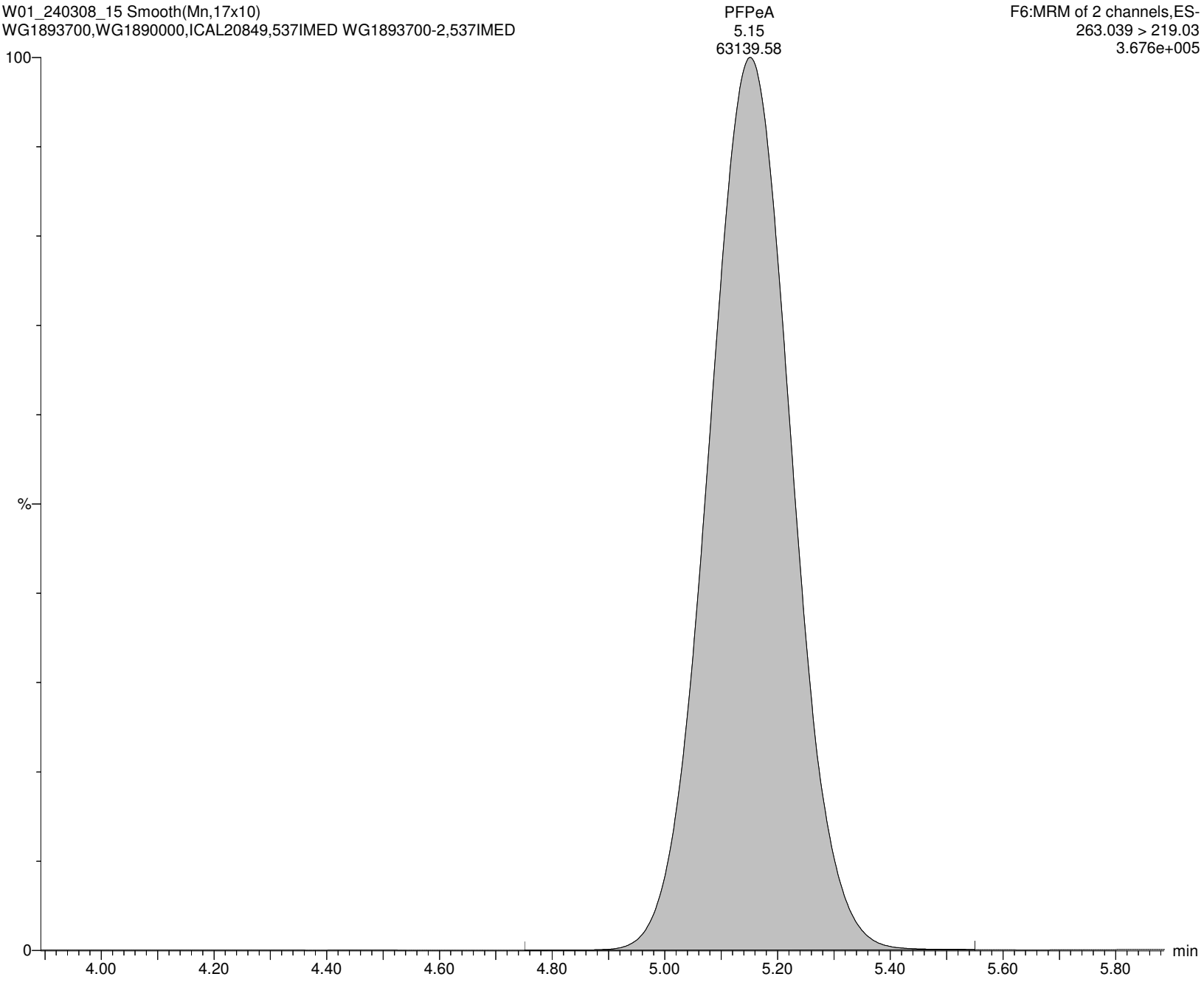

all concentration units in (ng/mL)

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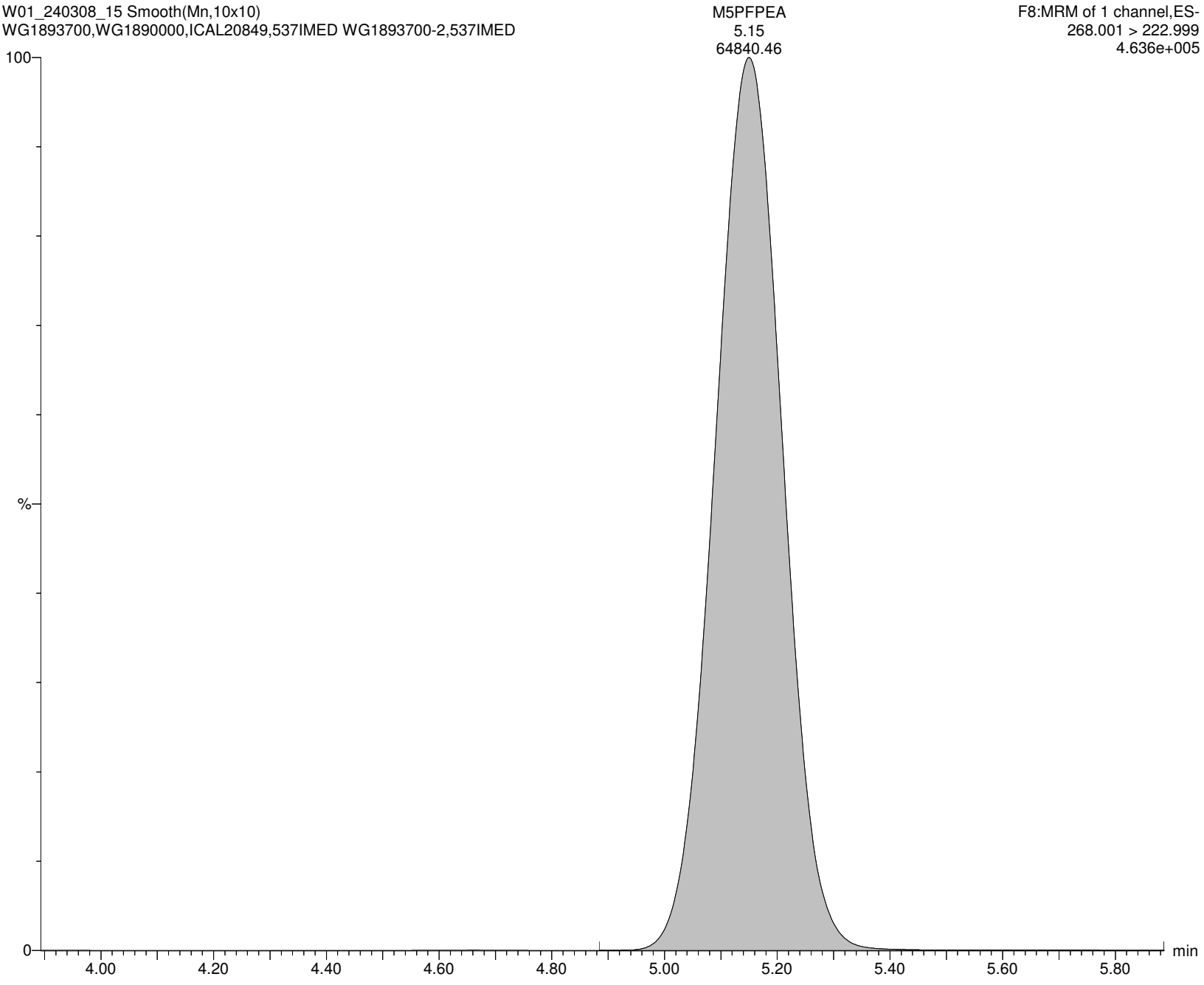

all concentration units in (ng/mL)

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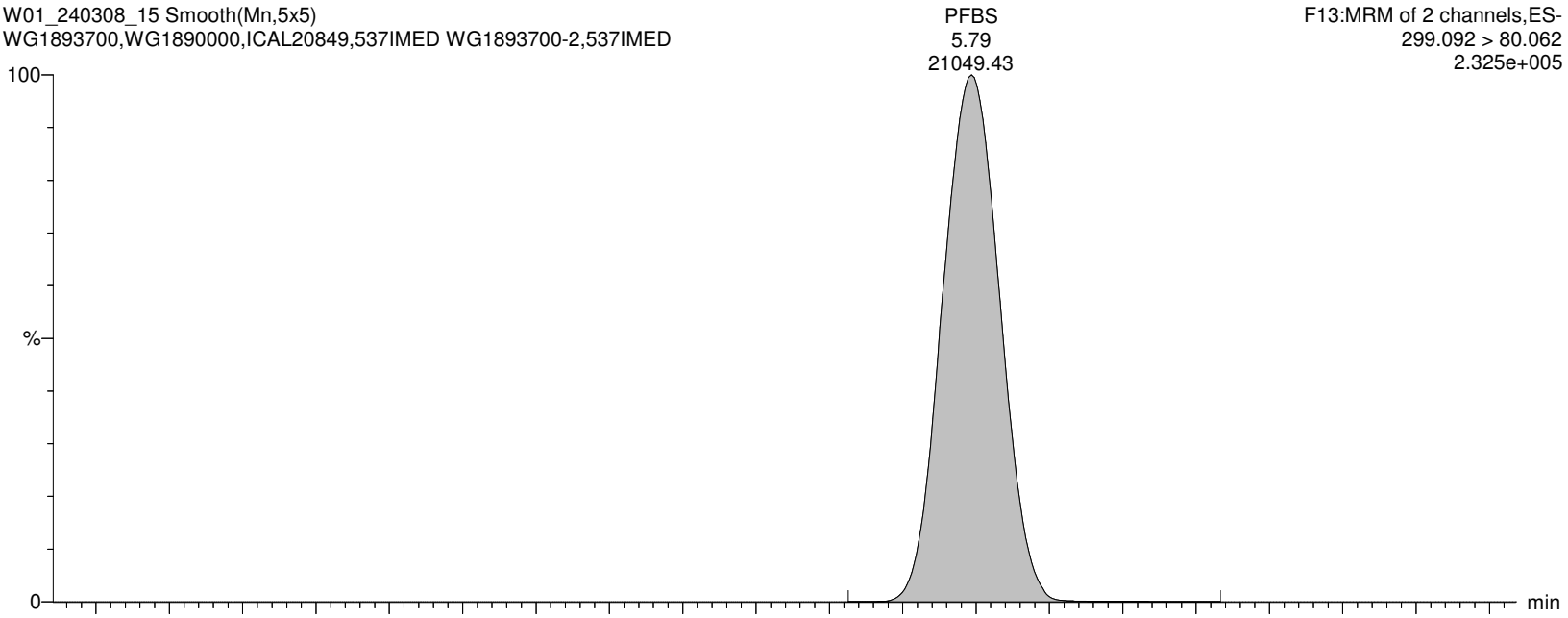

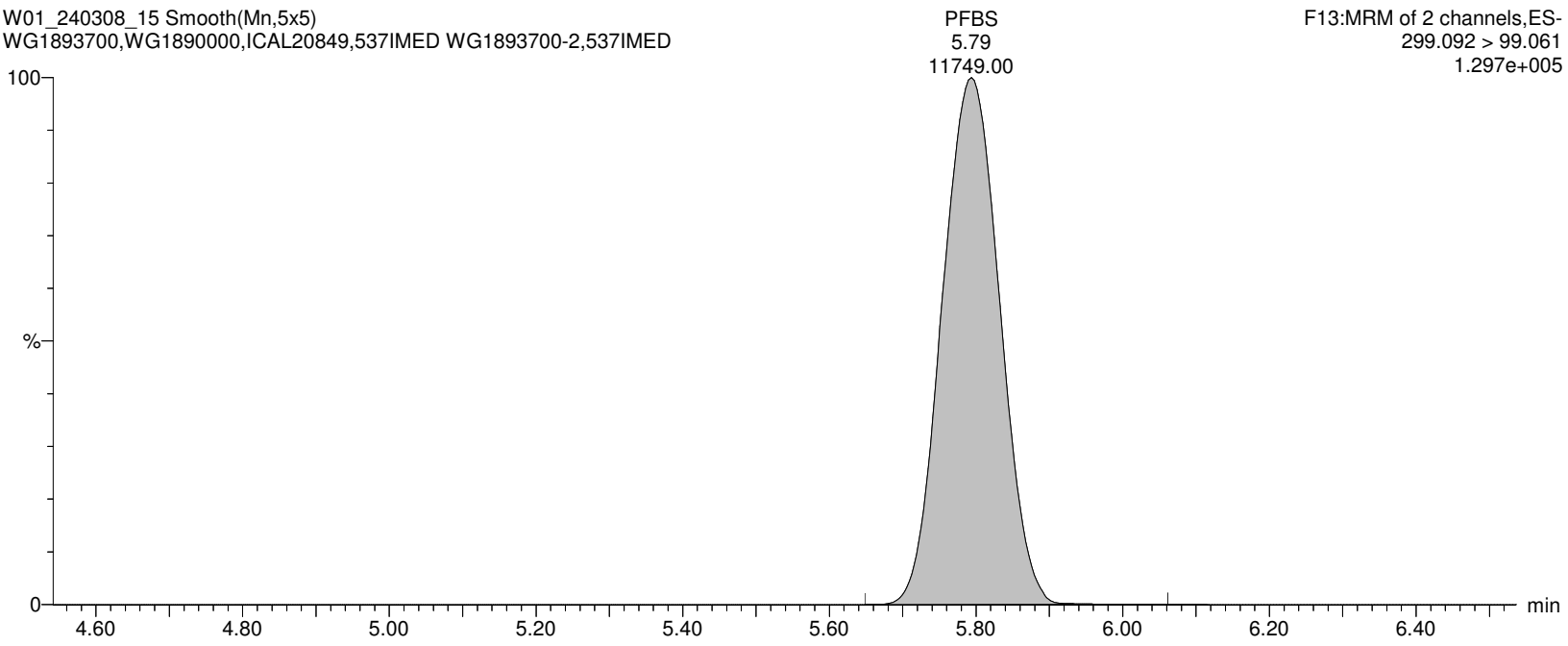

all concentration units in (ng/mL)

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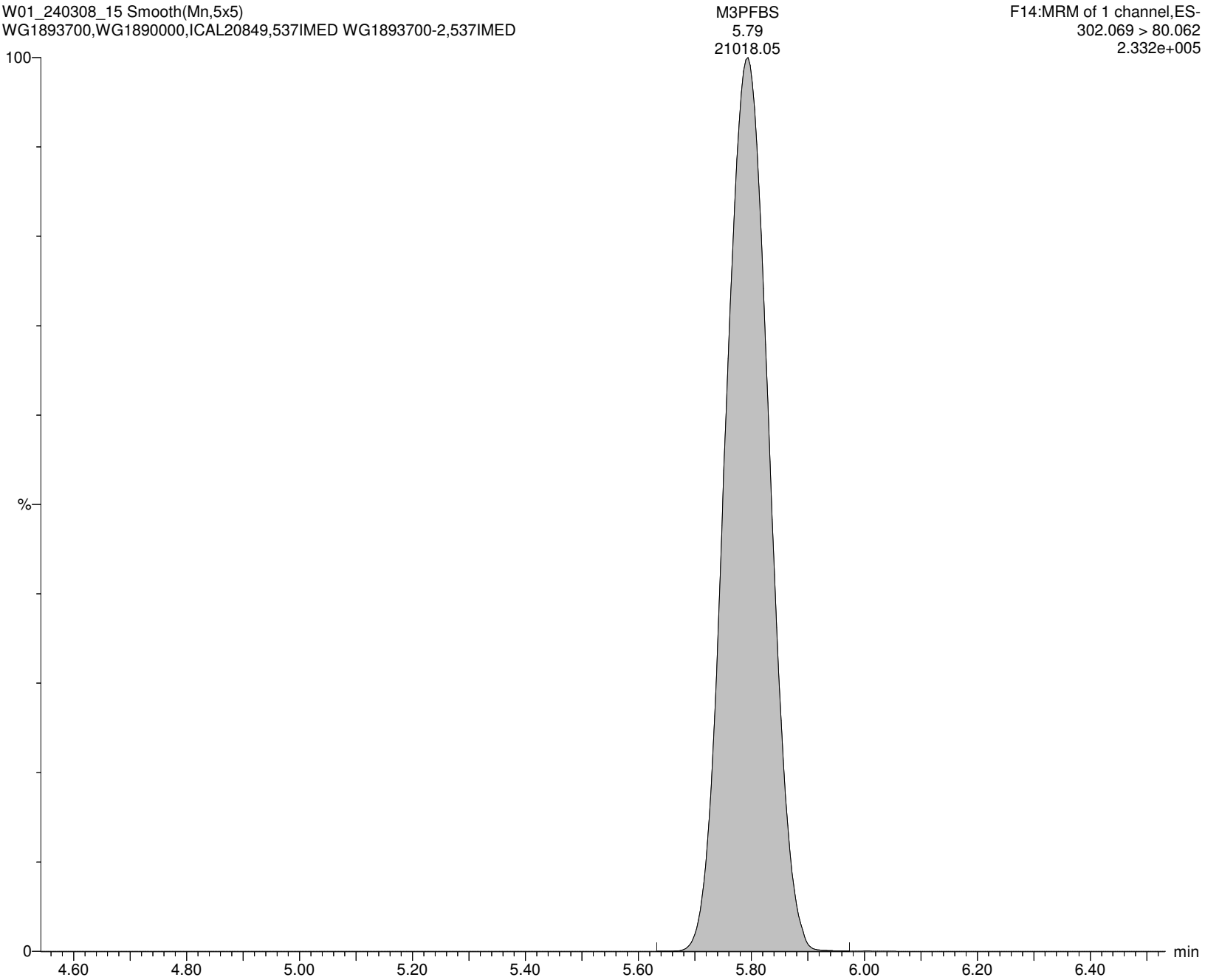

all concentration units in (ng/mL)

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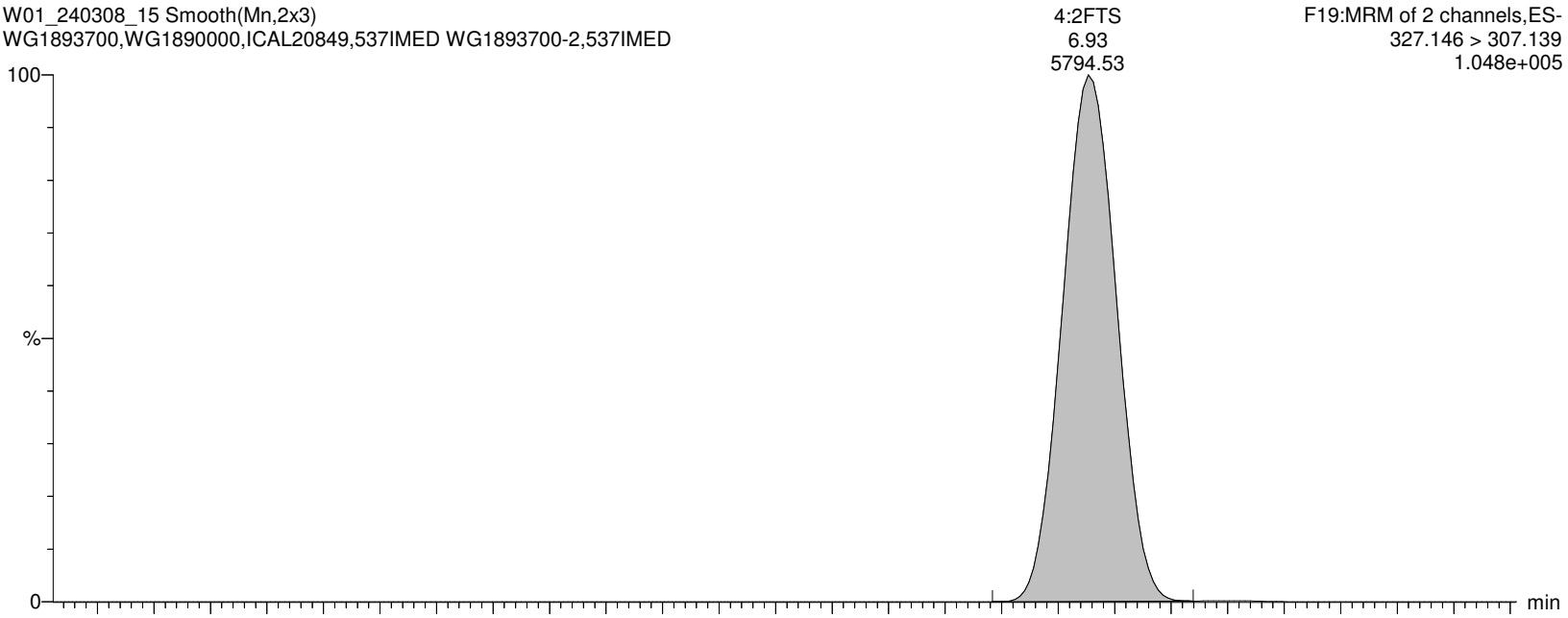

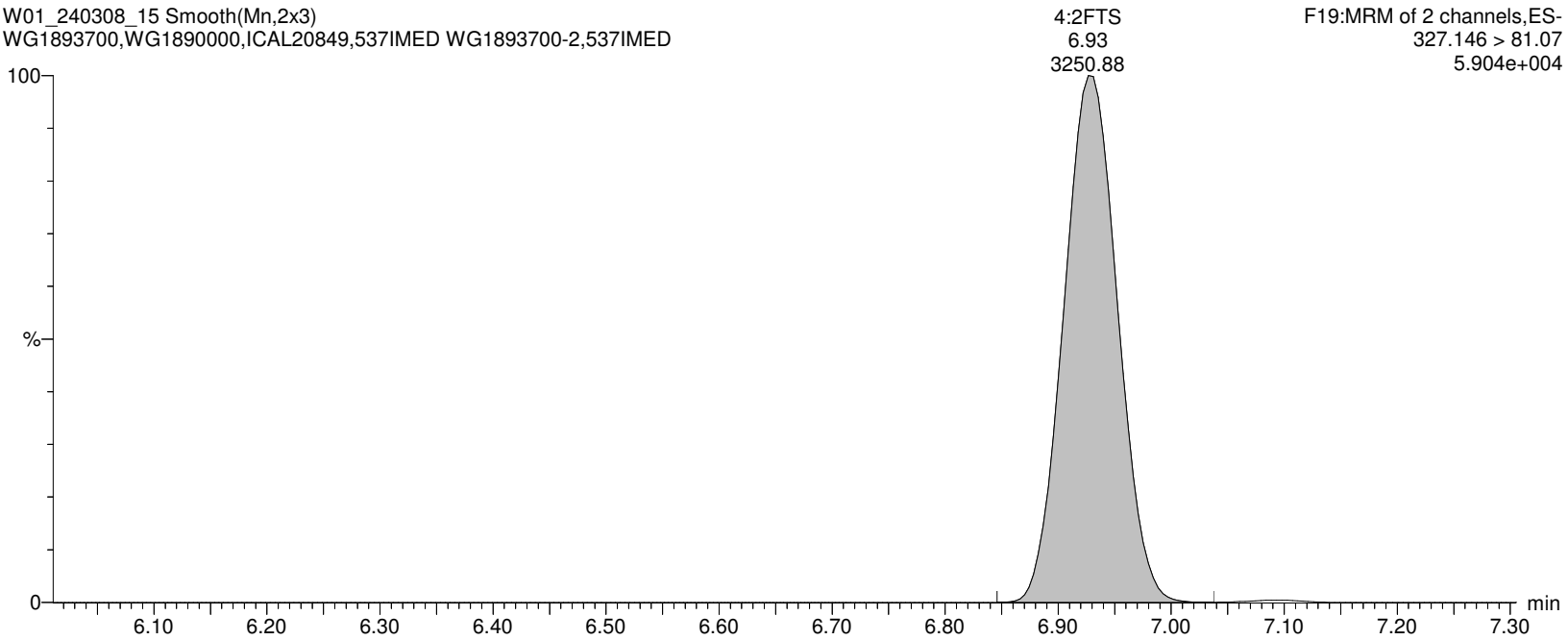

all concentration units in (ng/mL)

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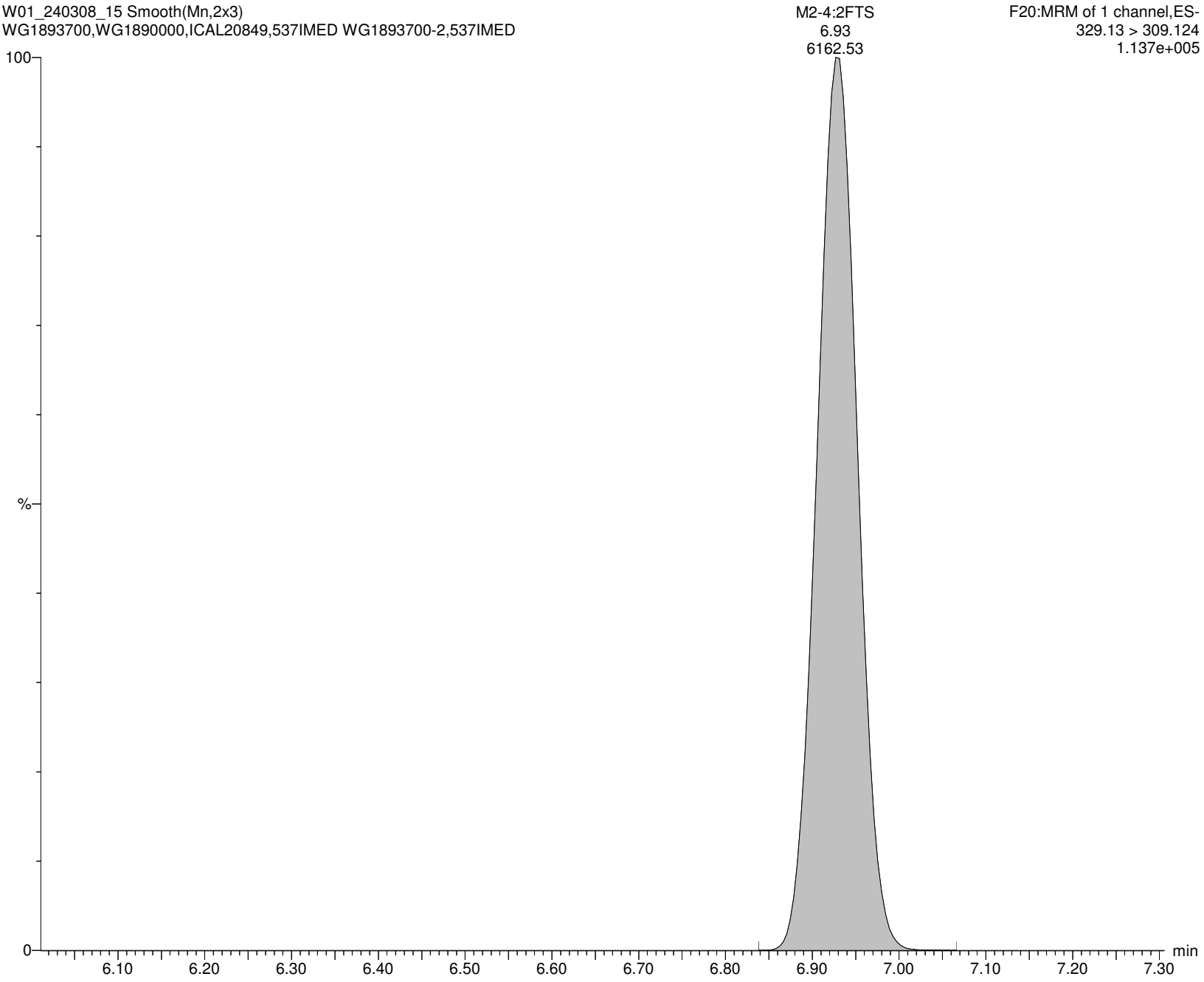

all concentration units in (ng/mL)

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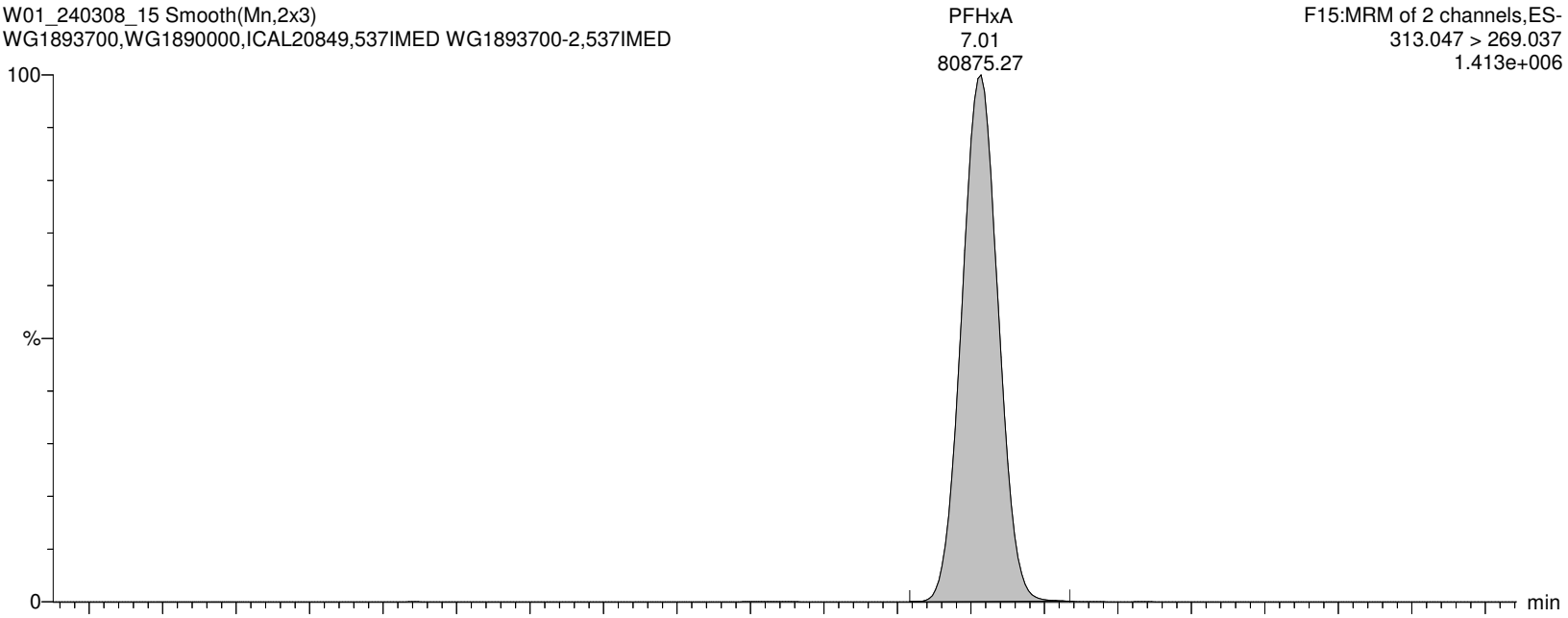

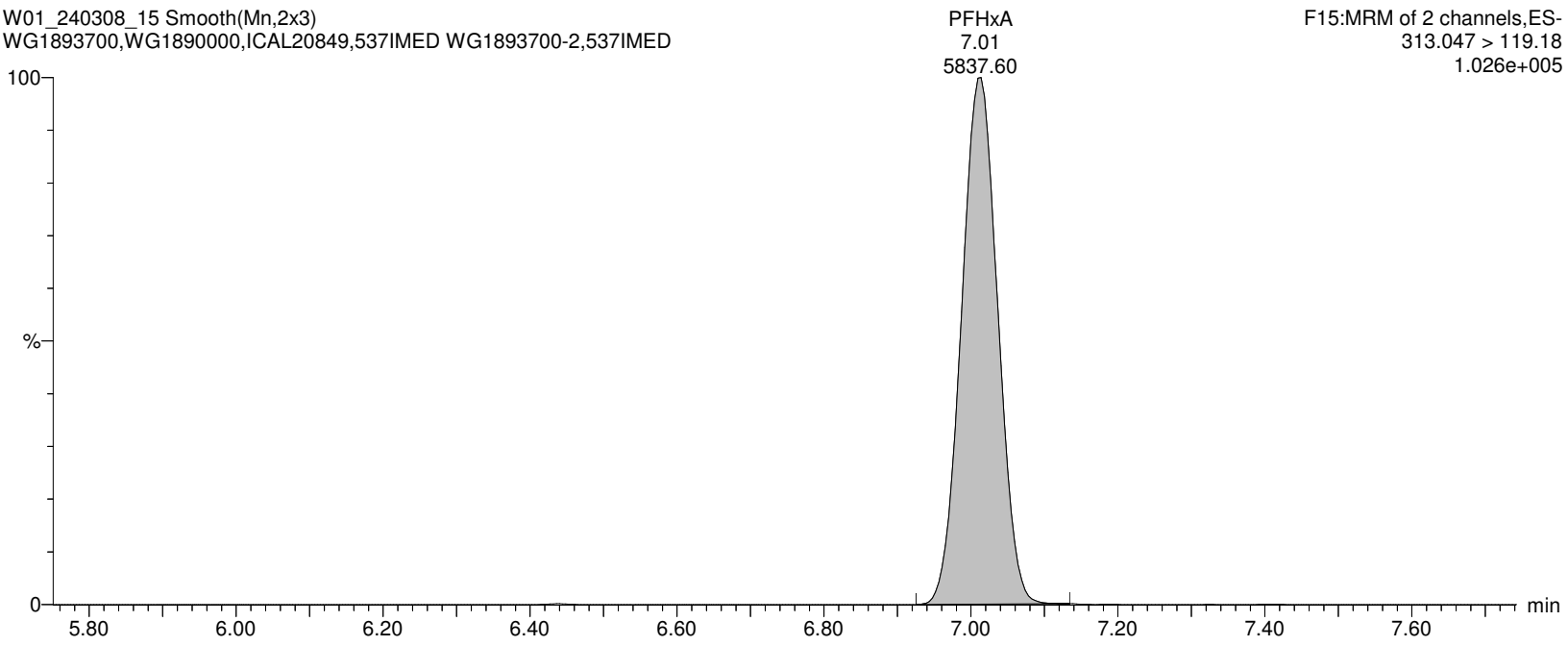

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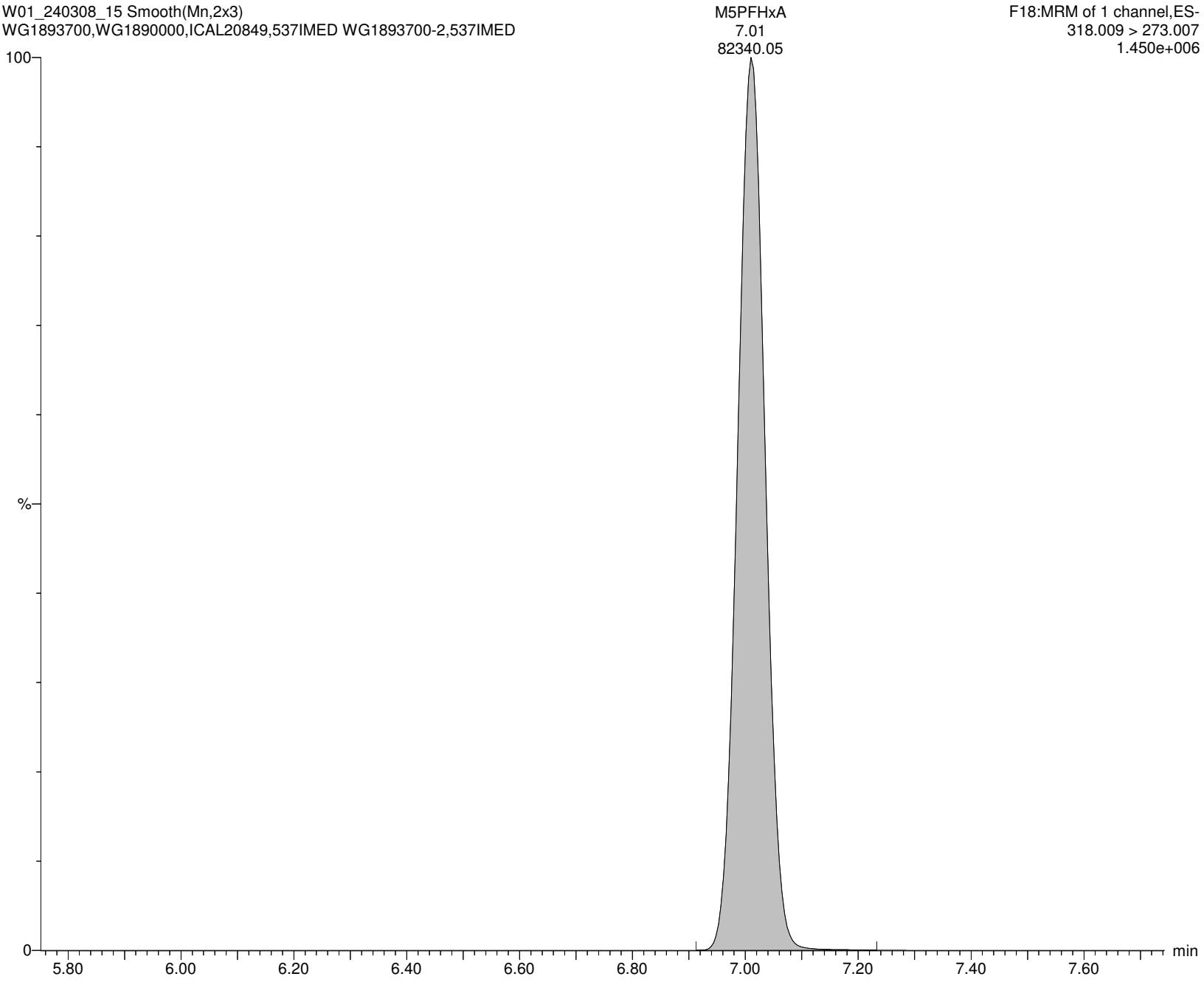

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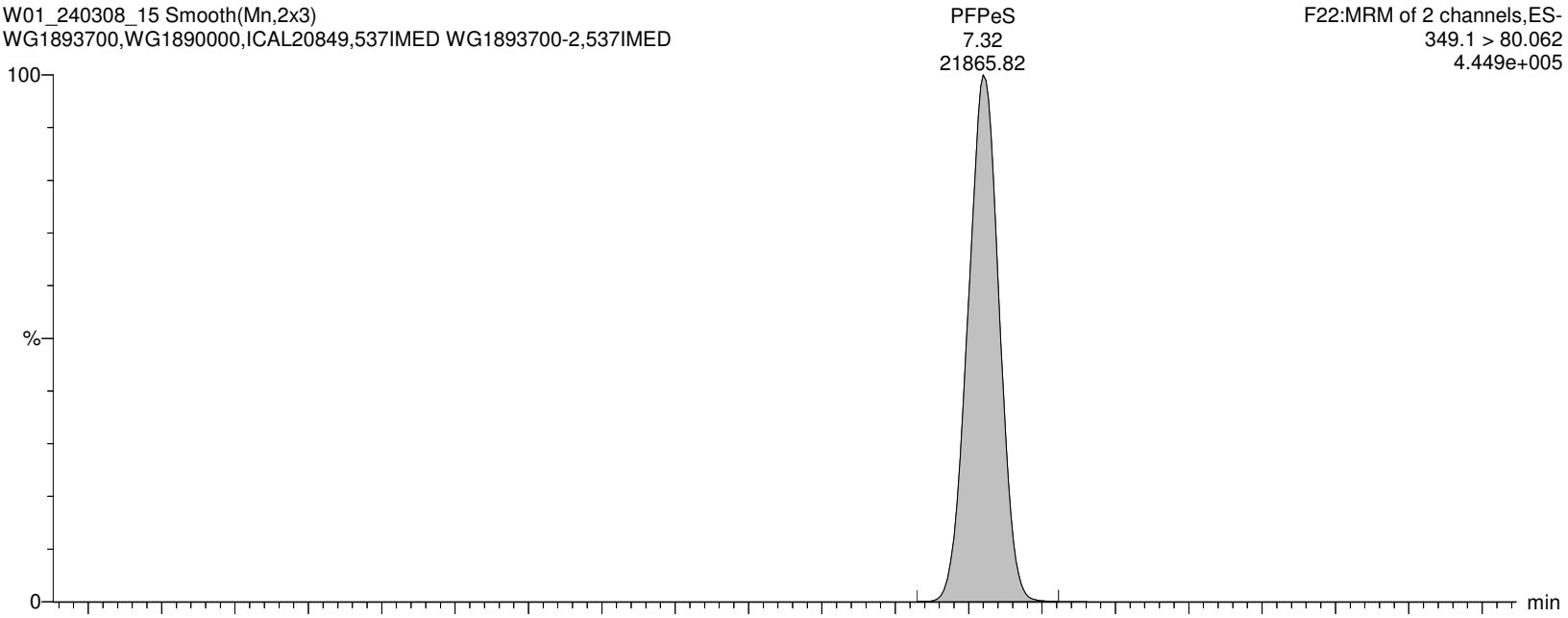

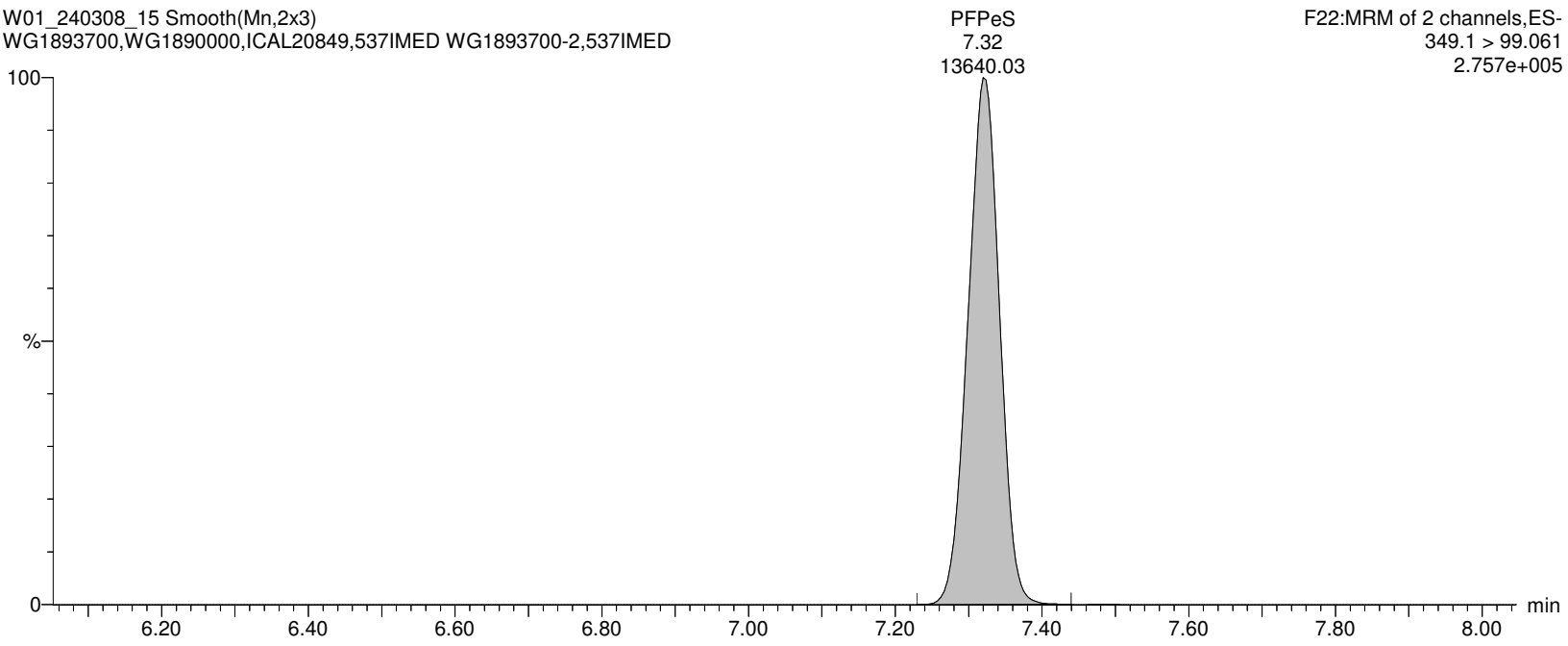

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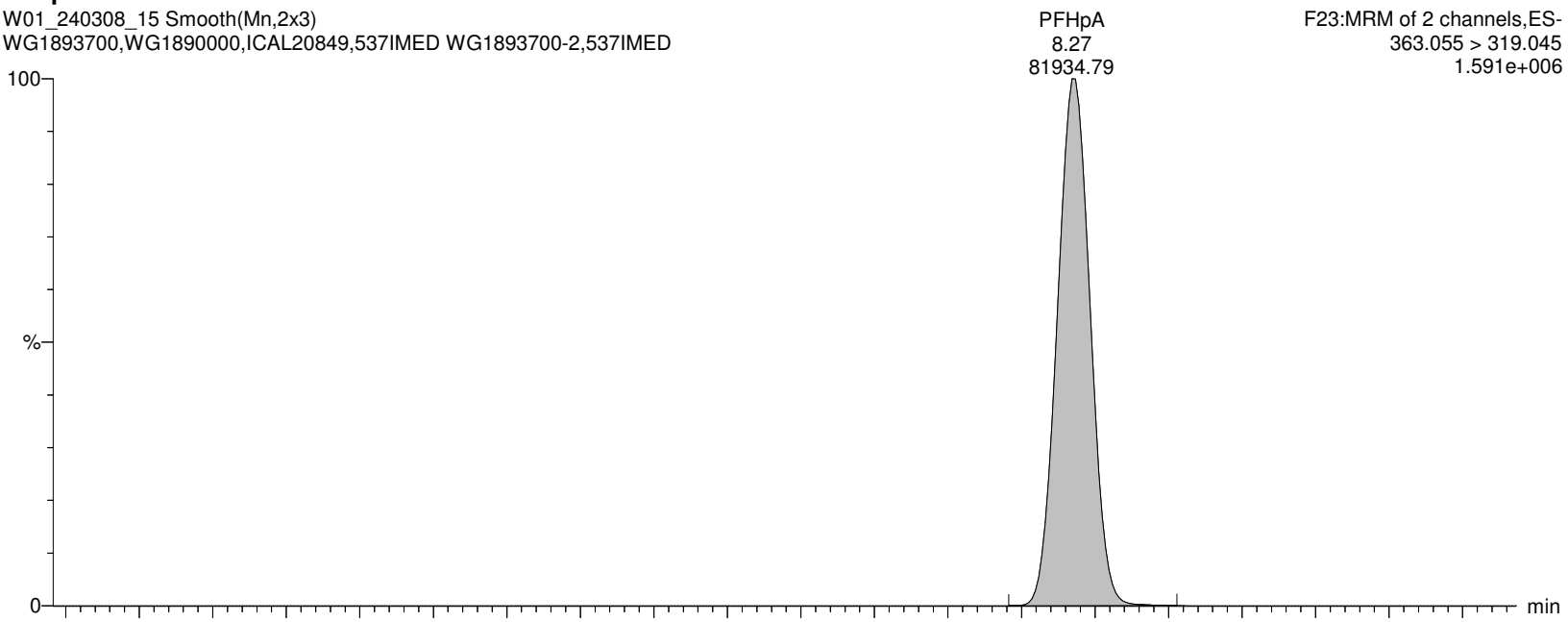

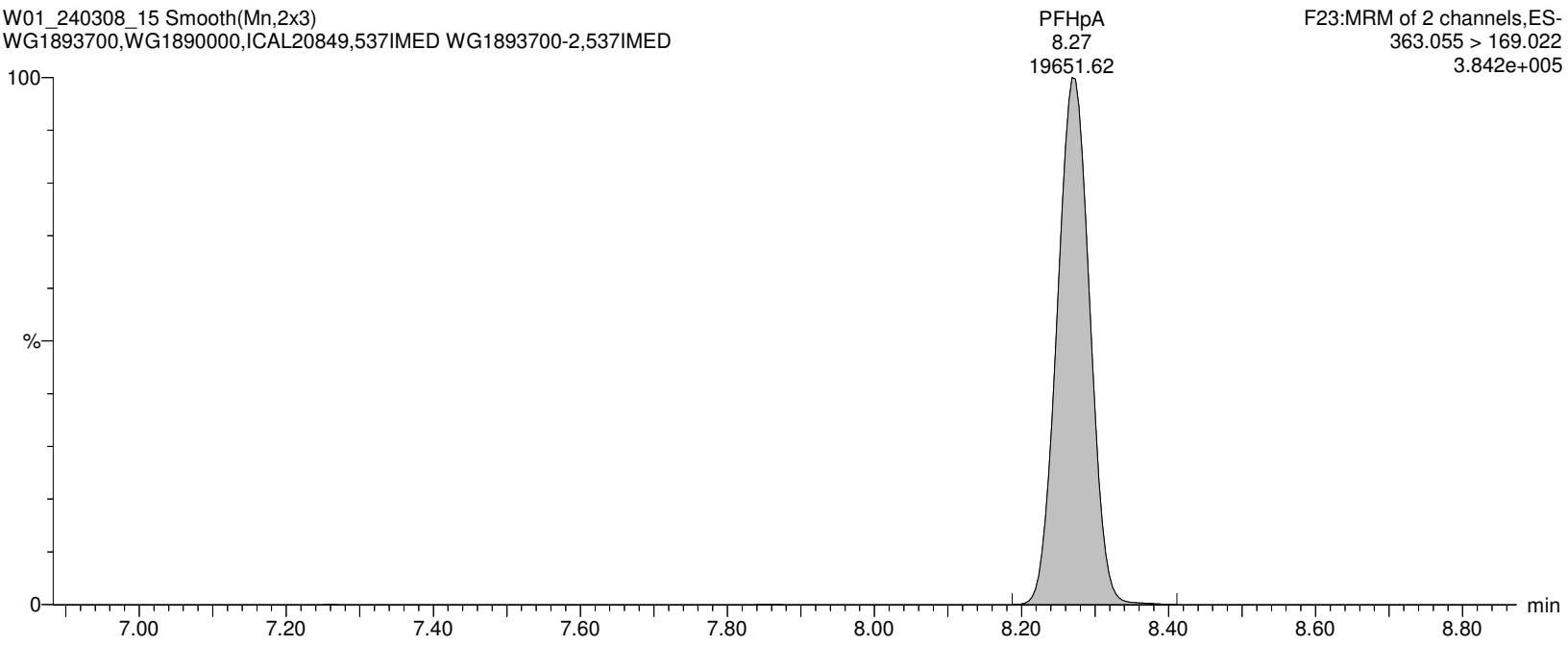

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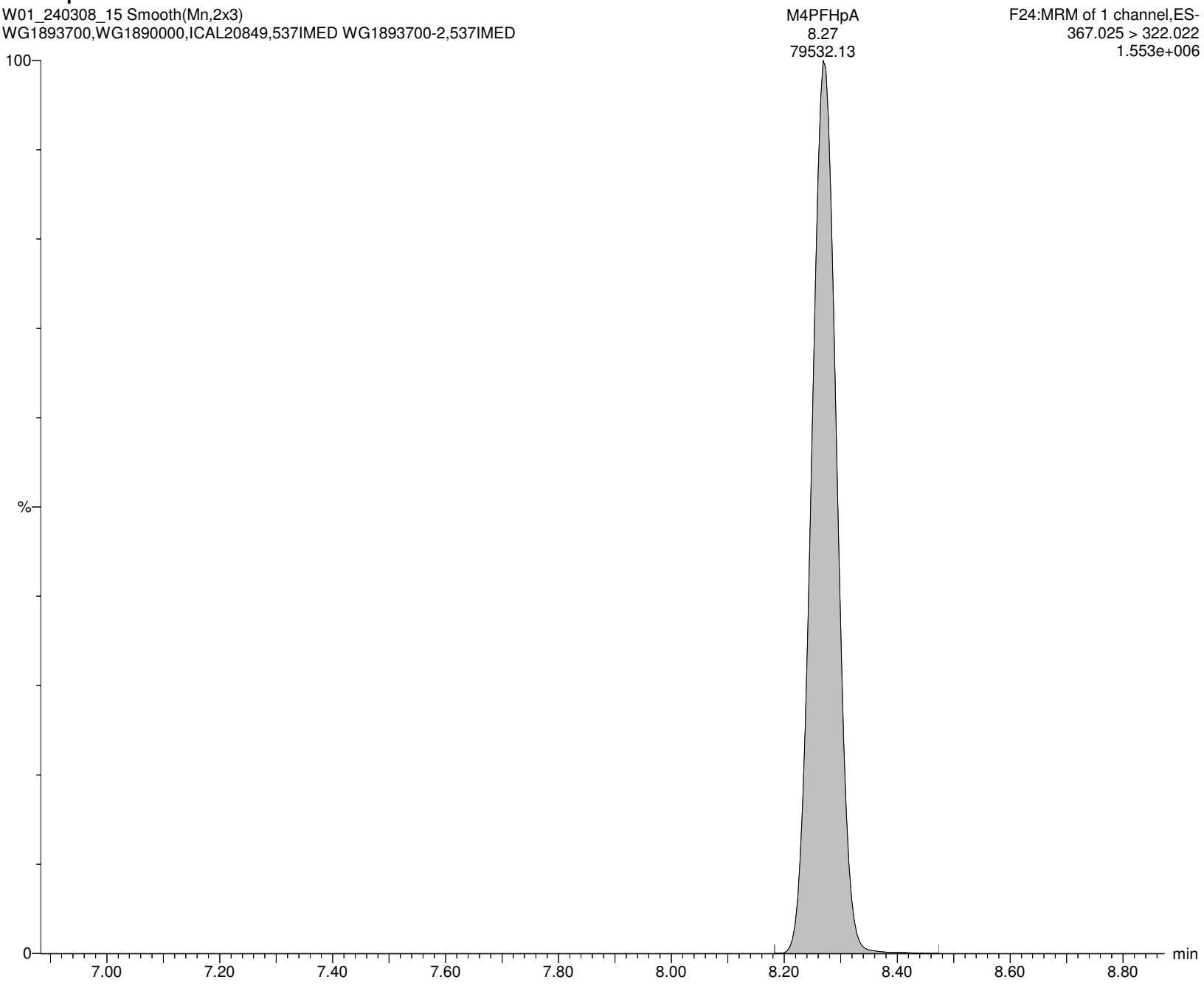

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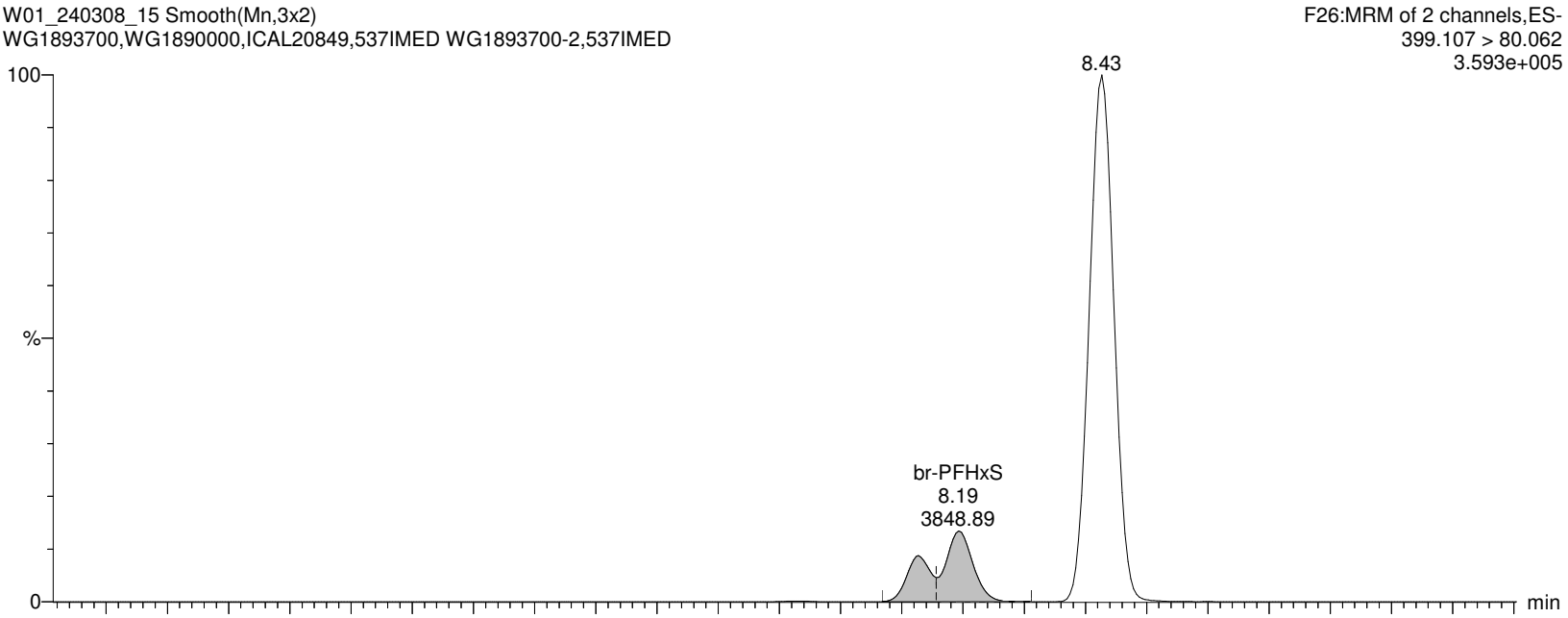

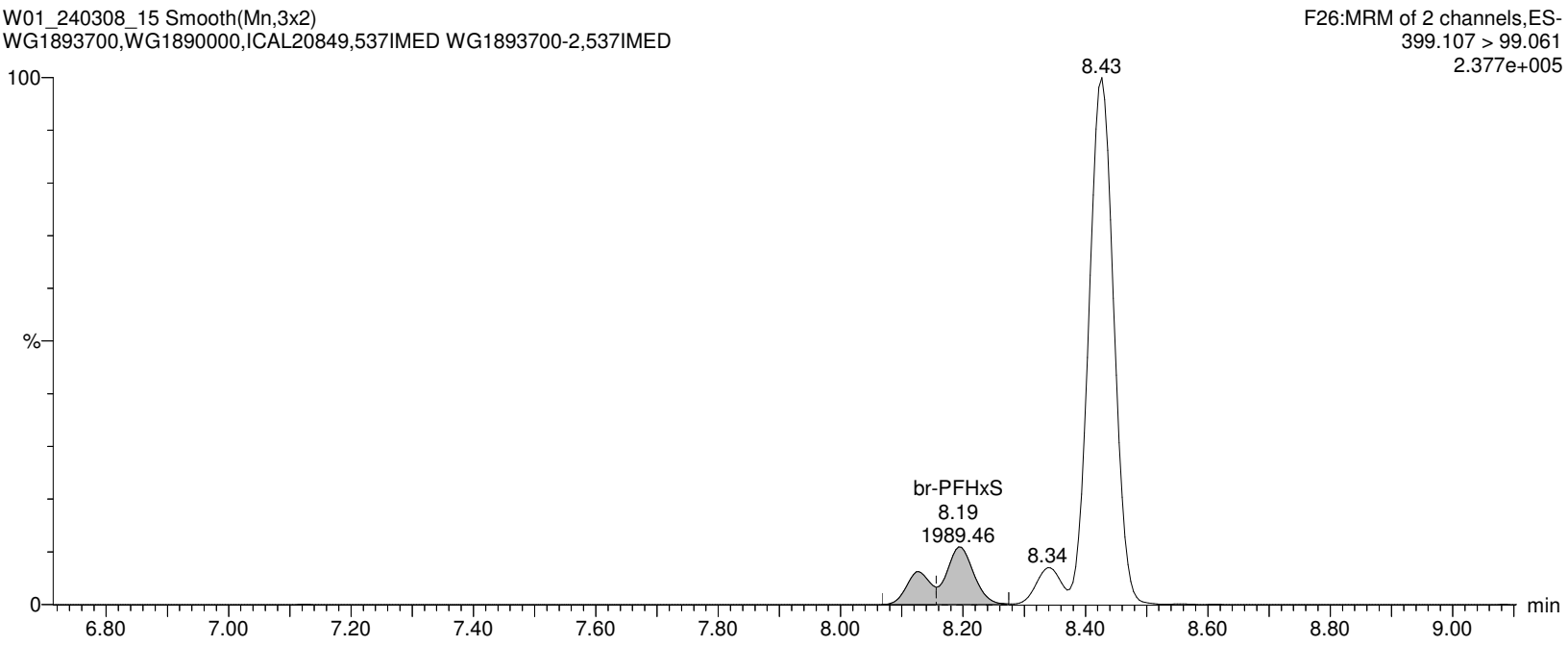

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Vial: 1:A,3
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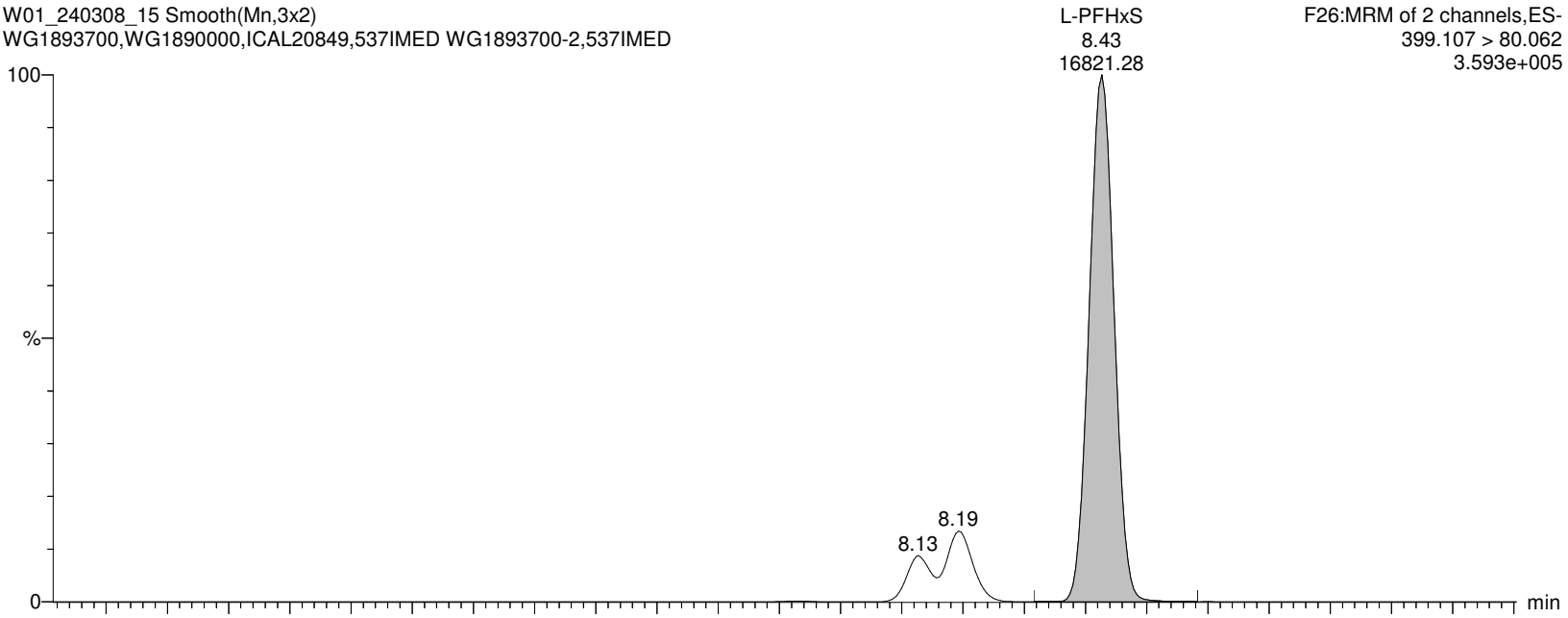

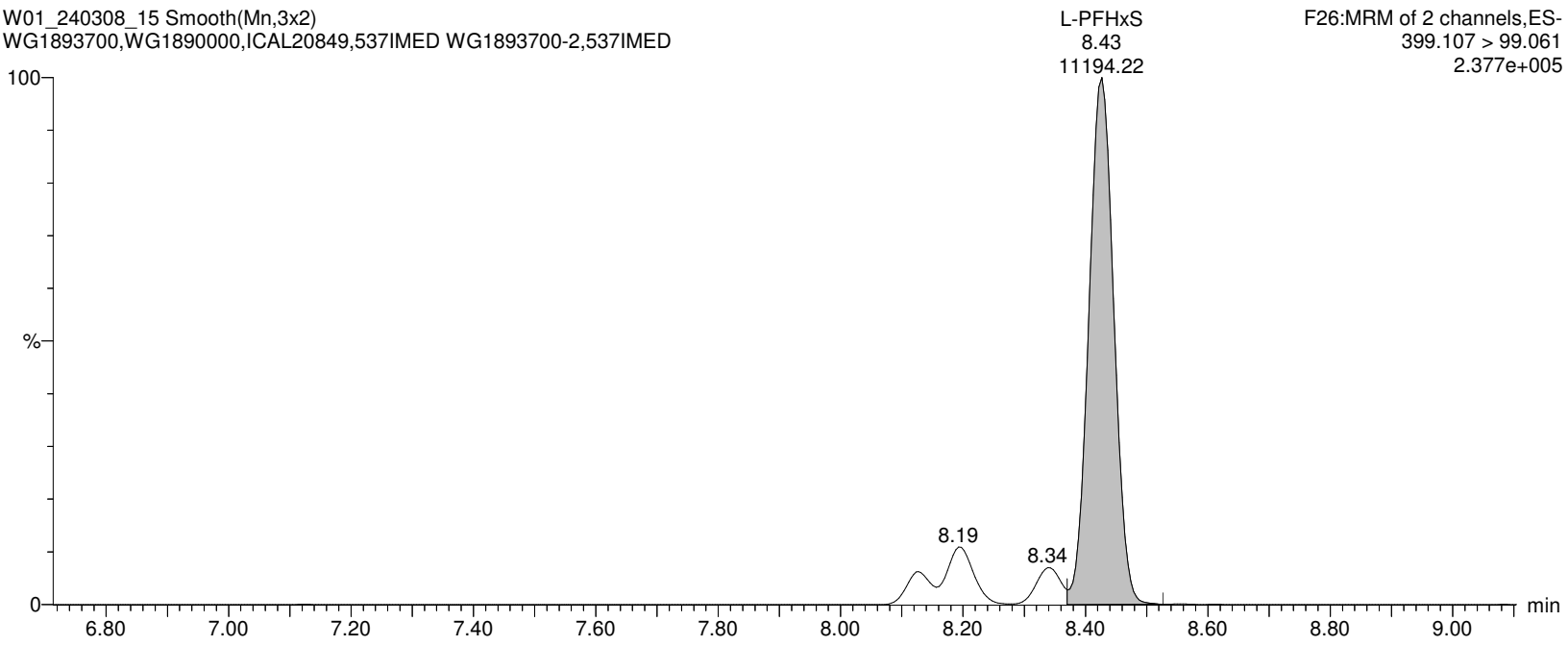

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
Printed: Friday, March 08, 2024 14:42:06 Eastern Standard Time

Name: W01_240308_15
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Date: 08-Mar-2024
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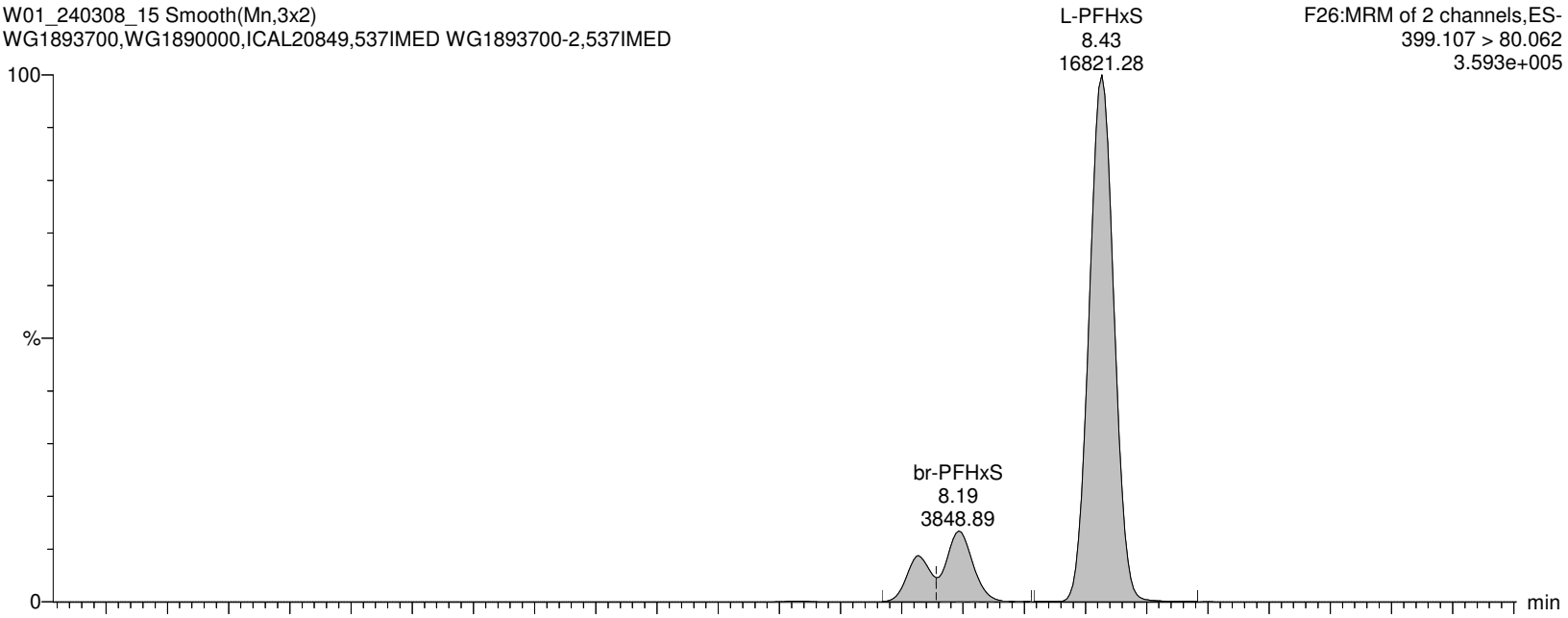

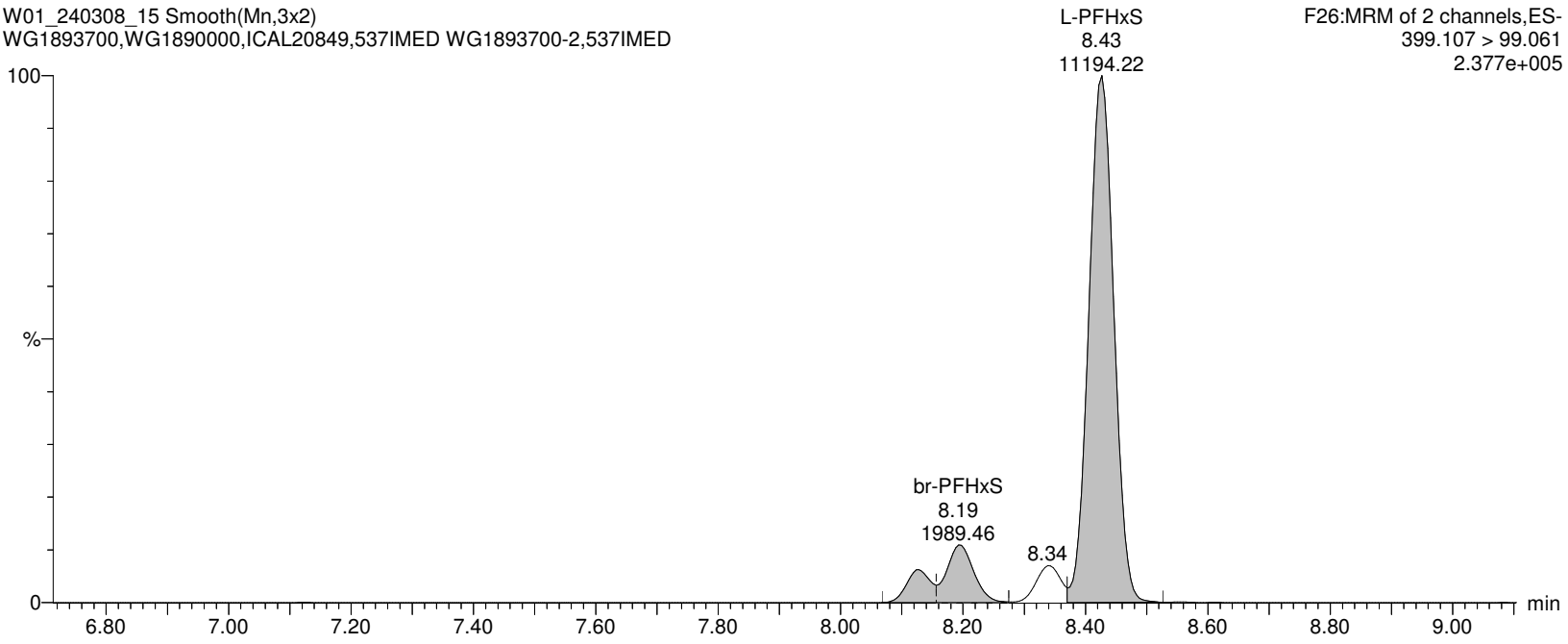

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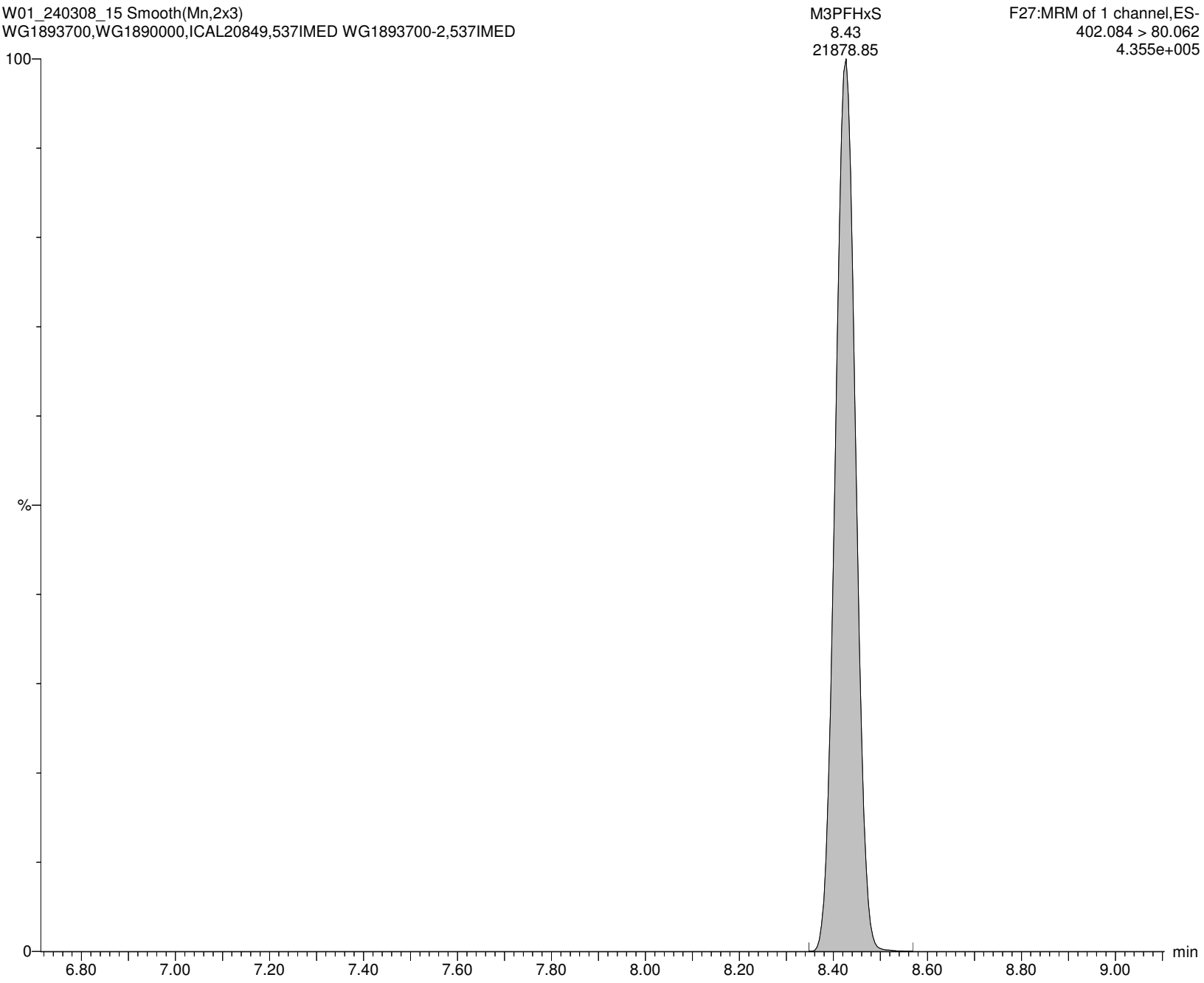

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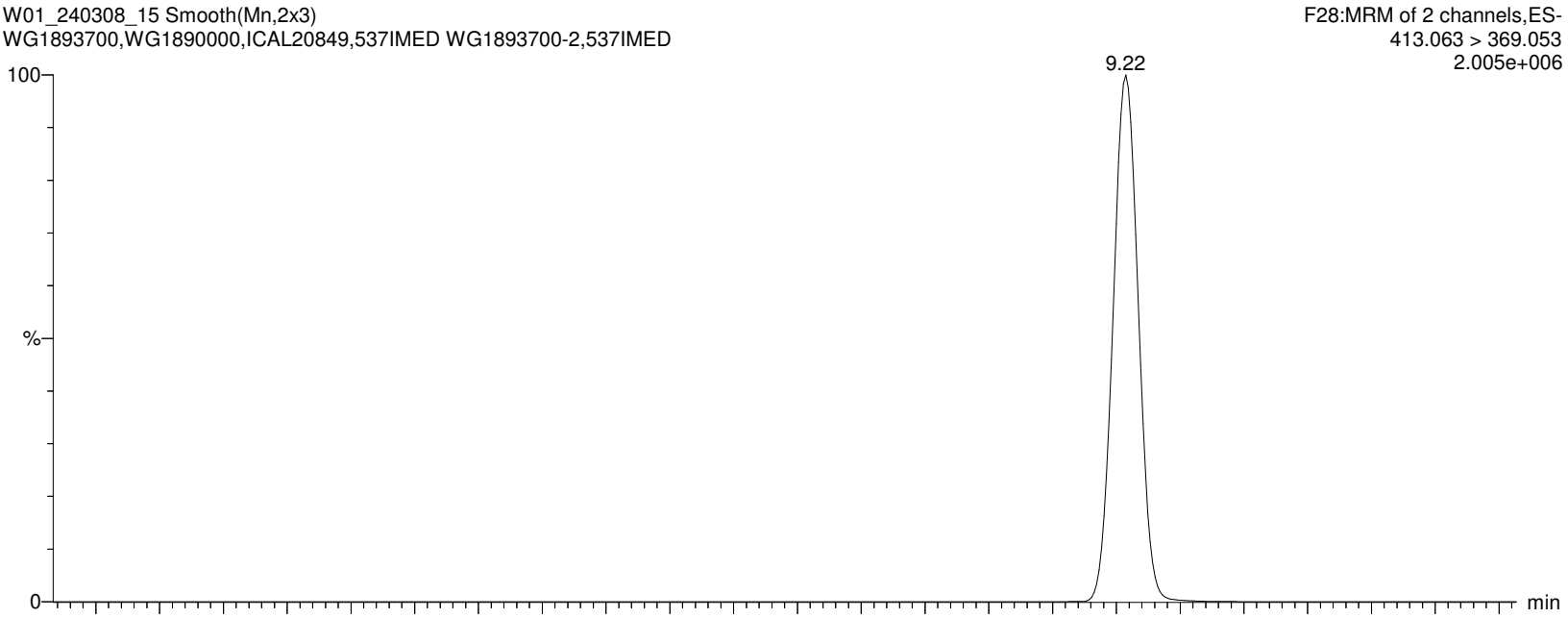

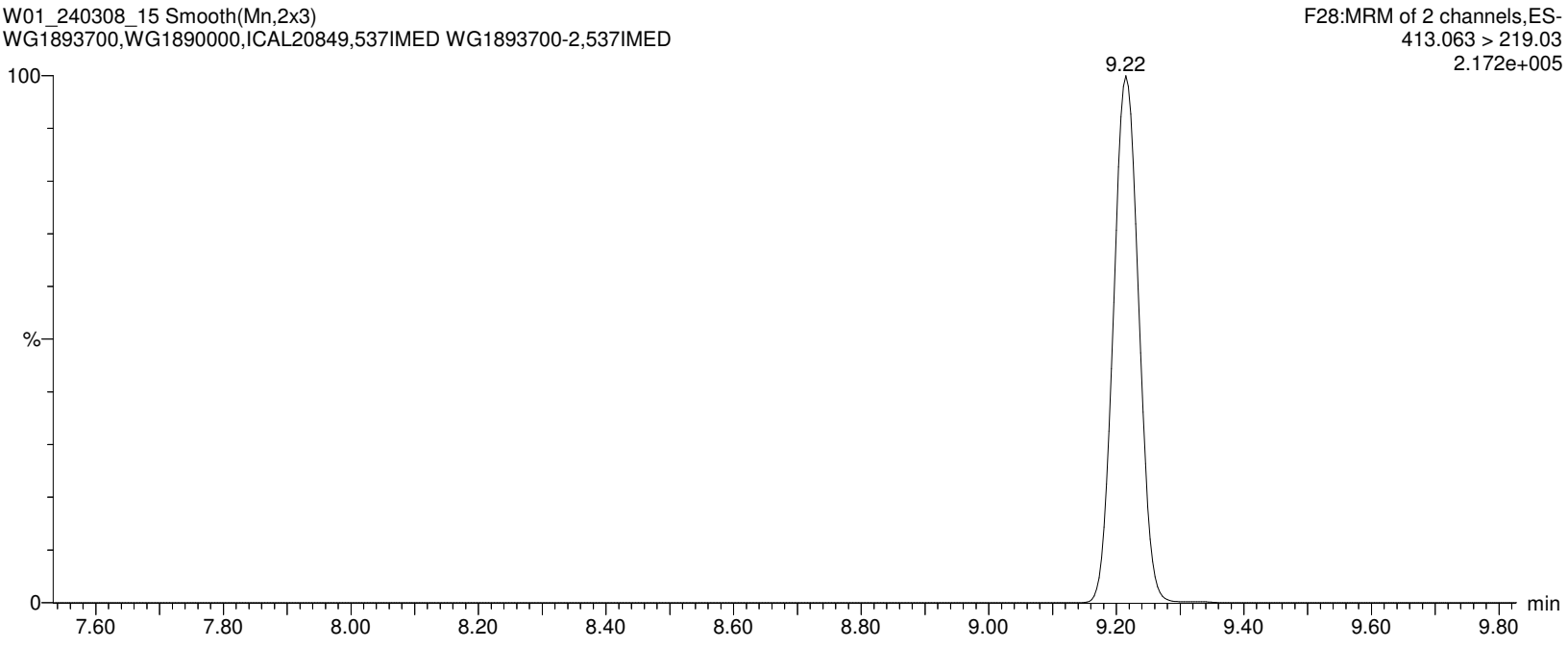

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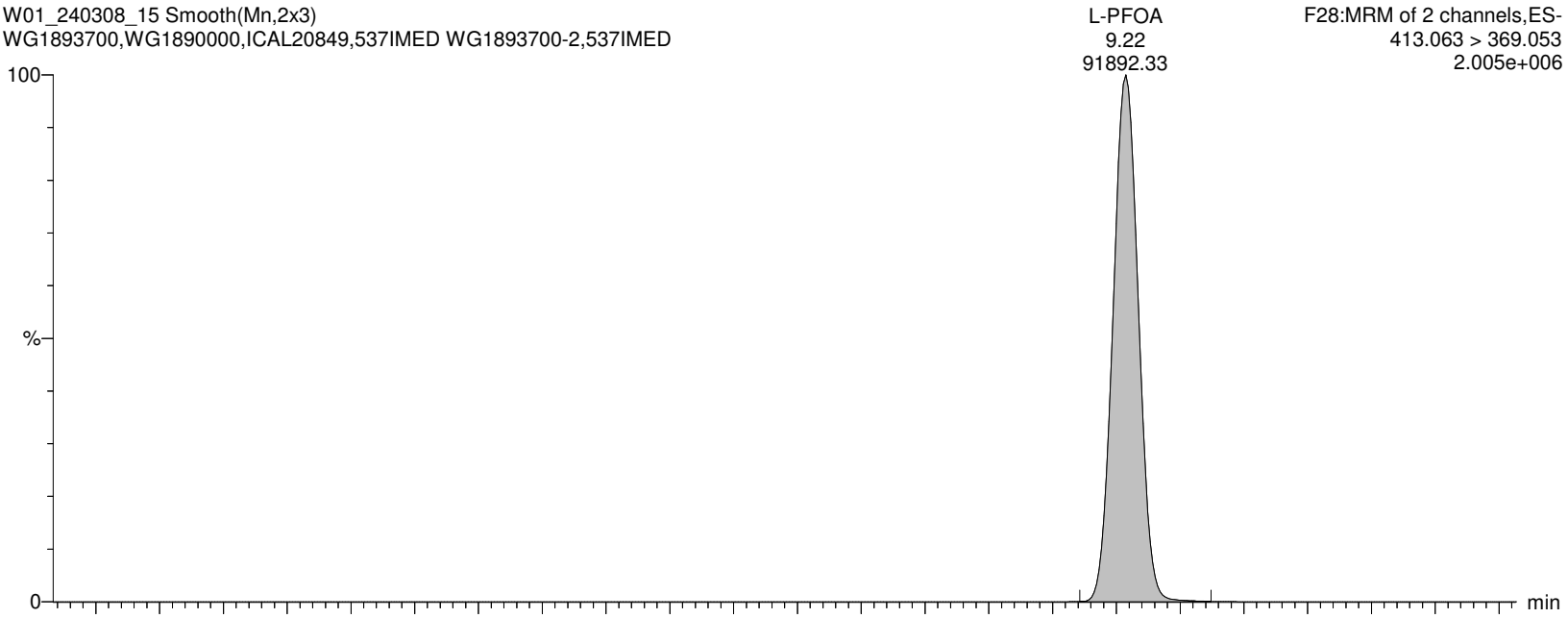

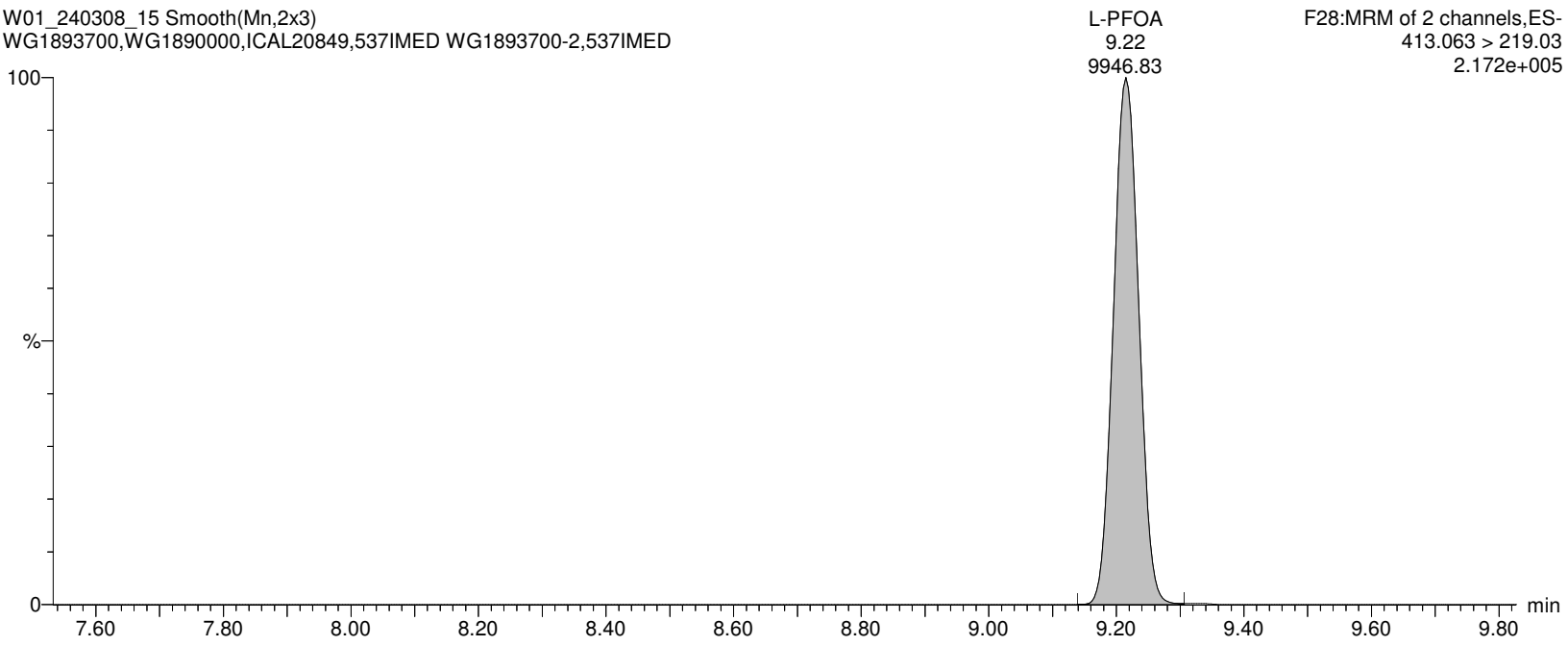

all concentration units in (ng/mL)

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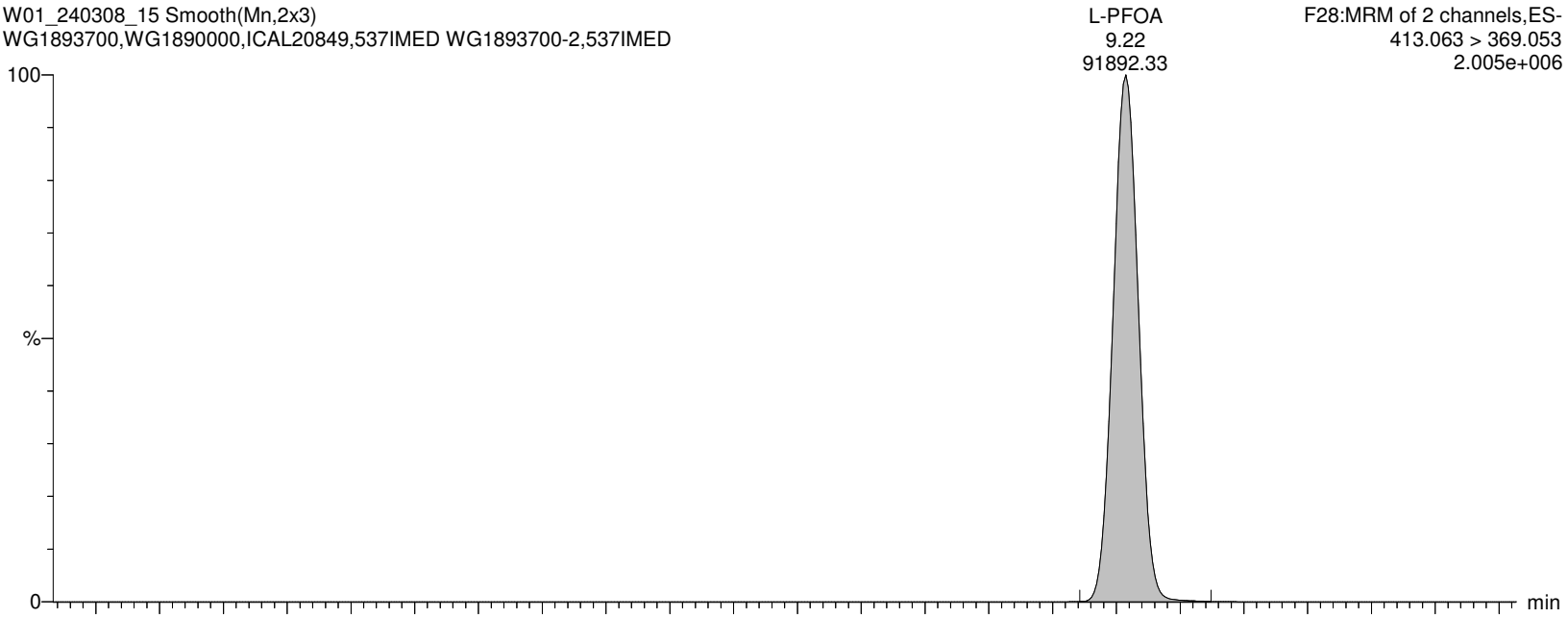

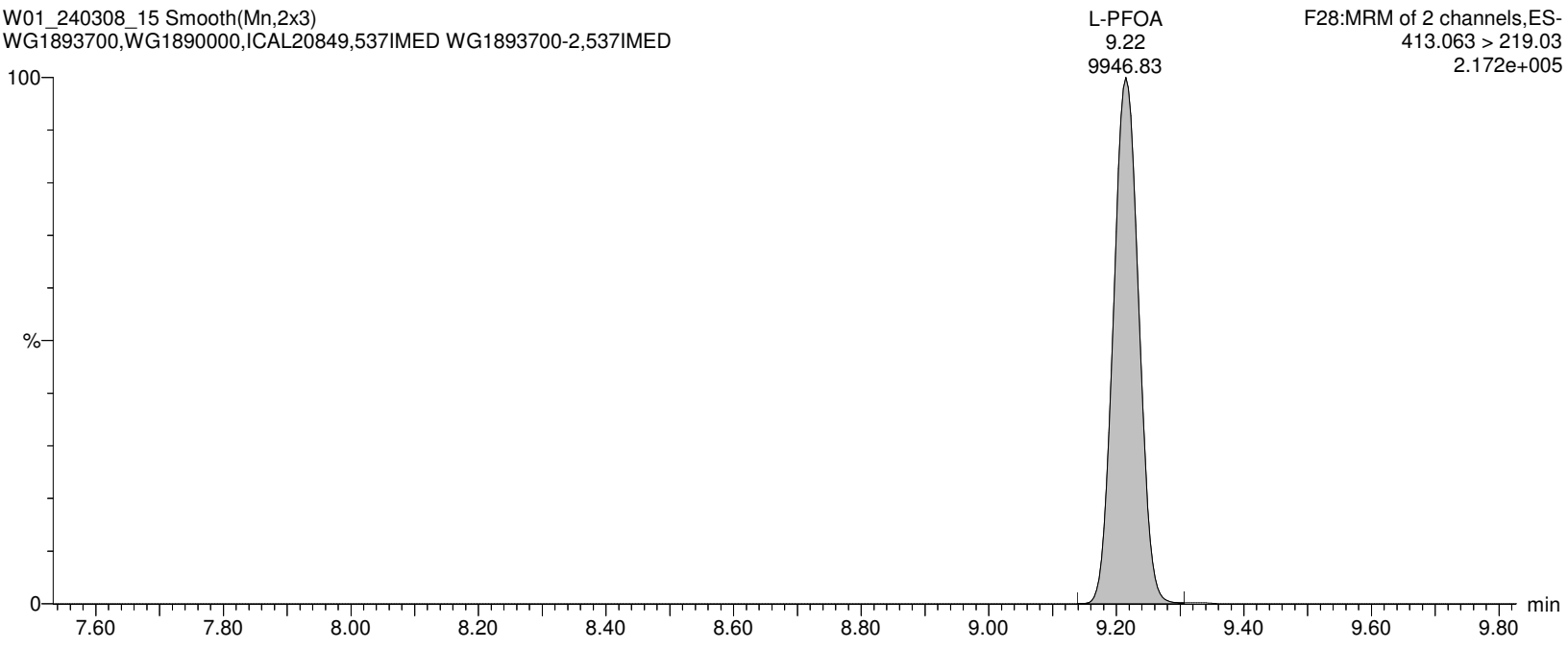

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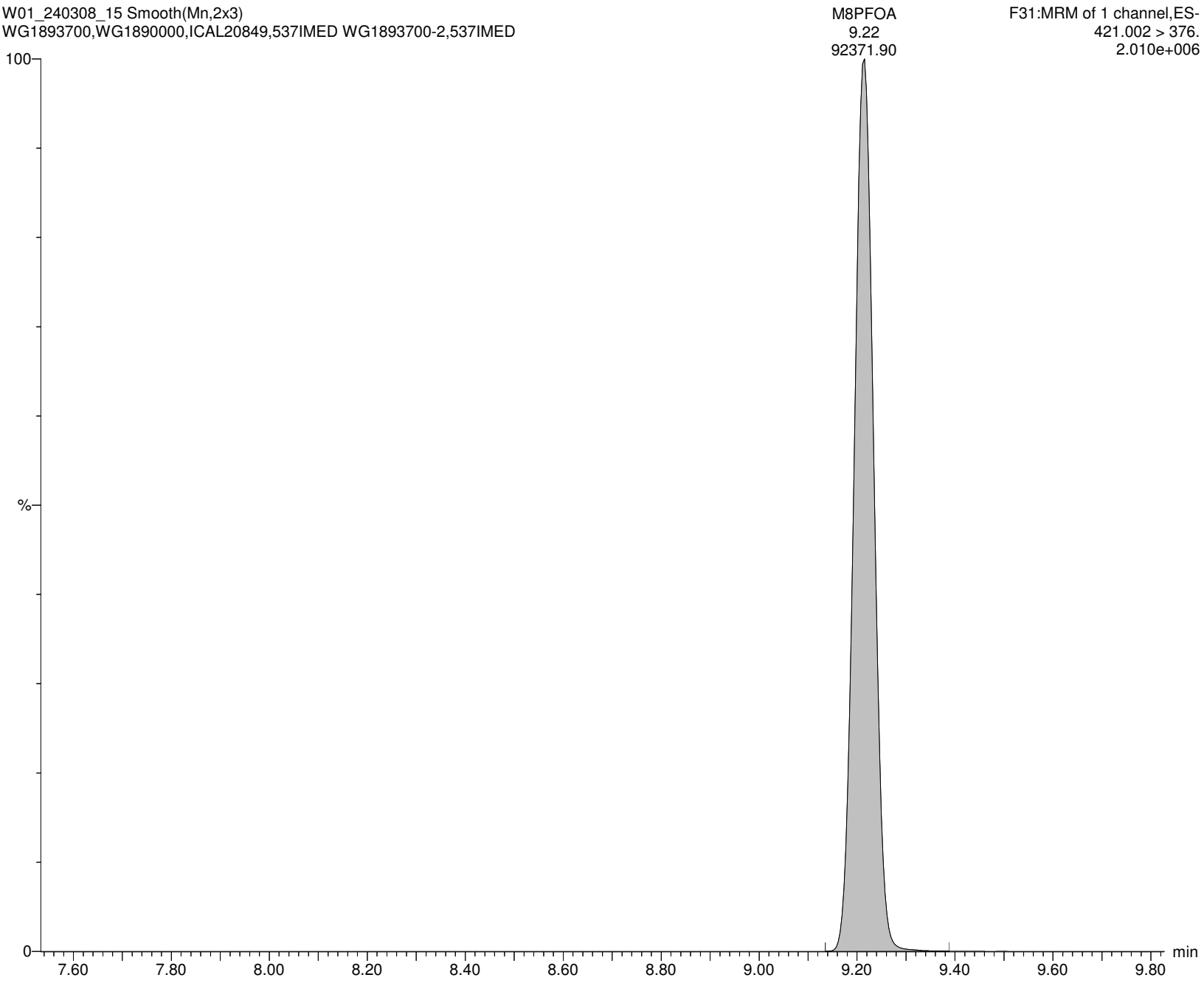

all concentration units in (ng/mL)

Alpha Analytical Inc.
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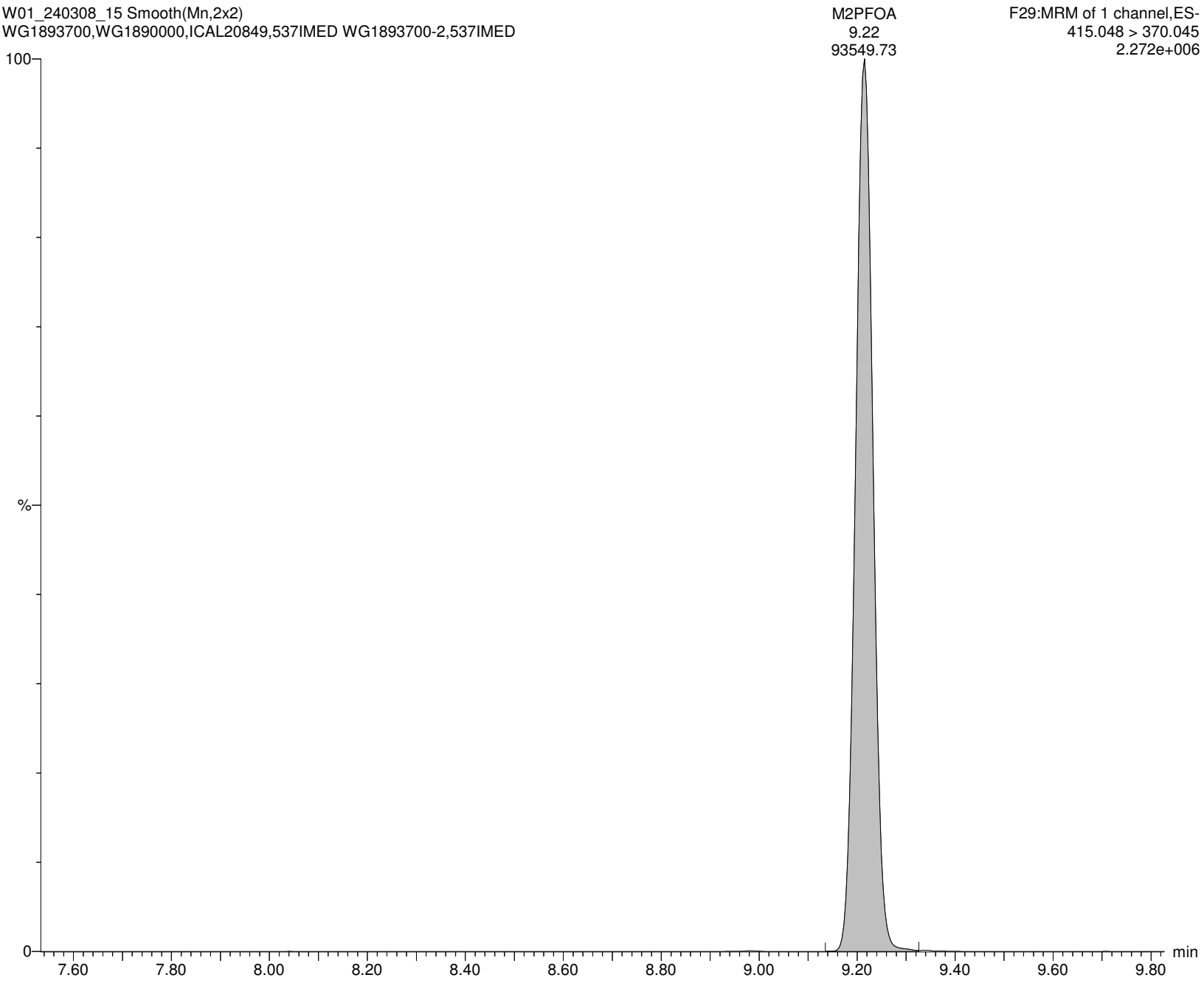

all concentration units in (ng/mL)

Alpha Analytical Inc.
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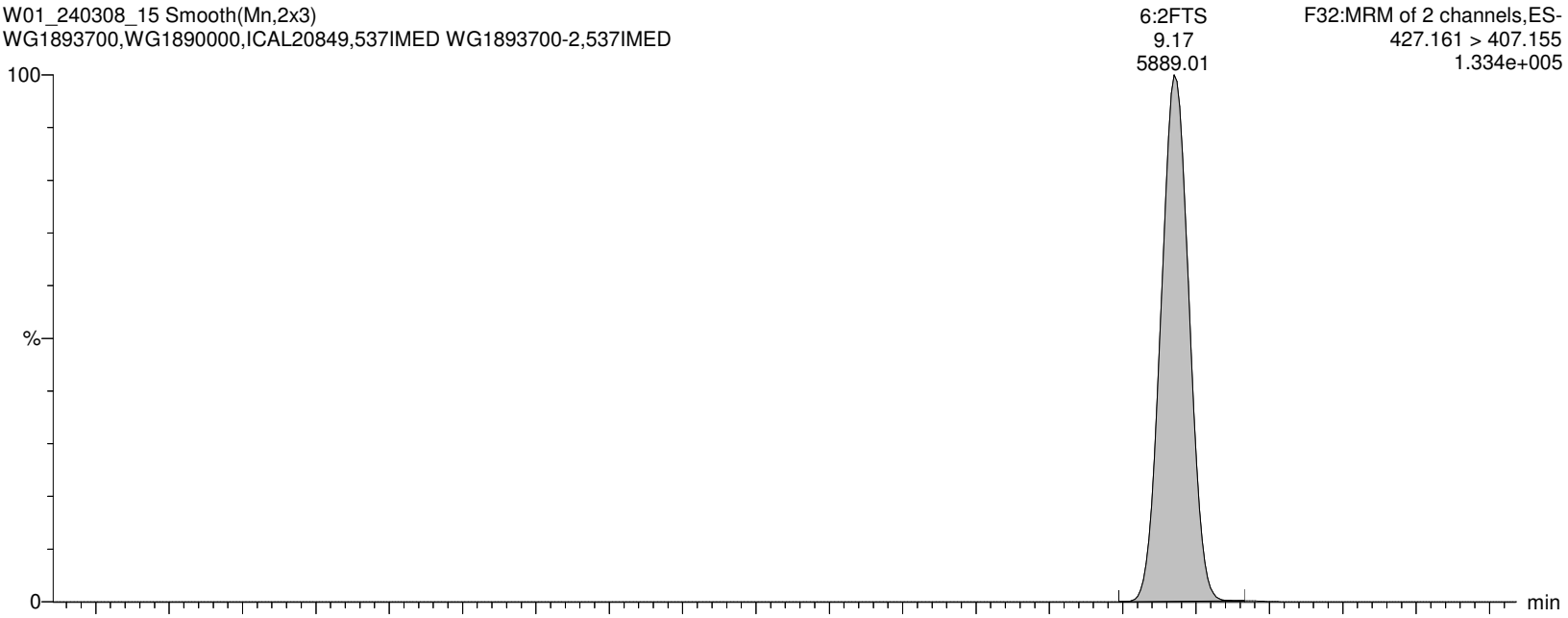

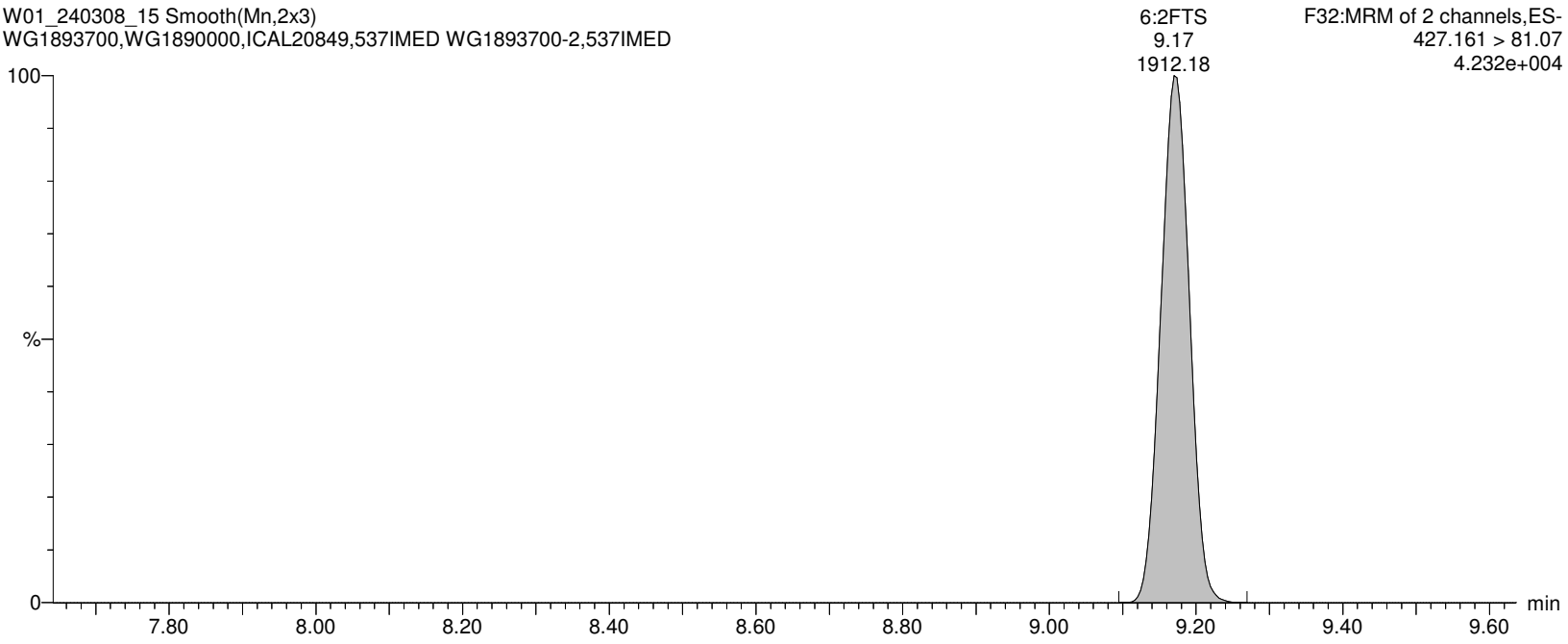

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
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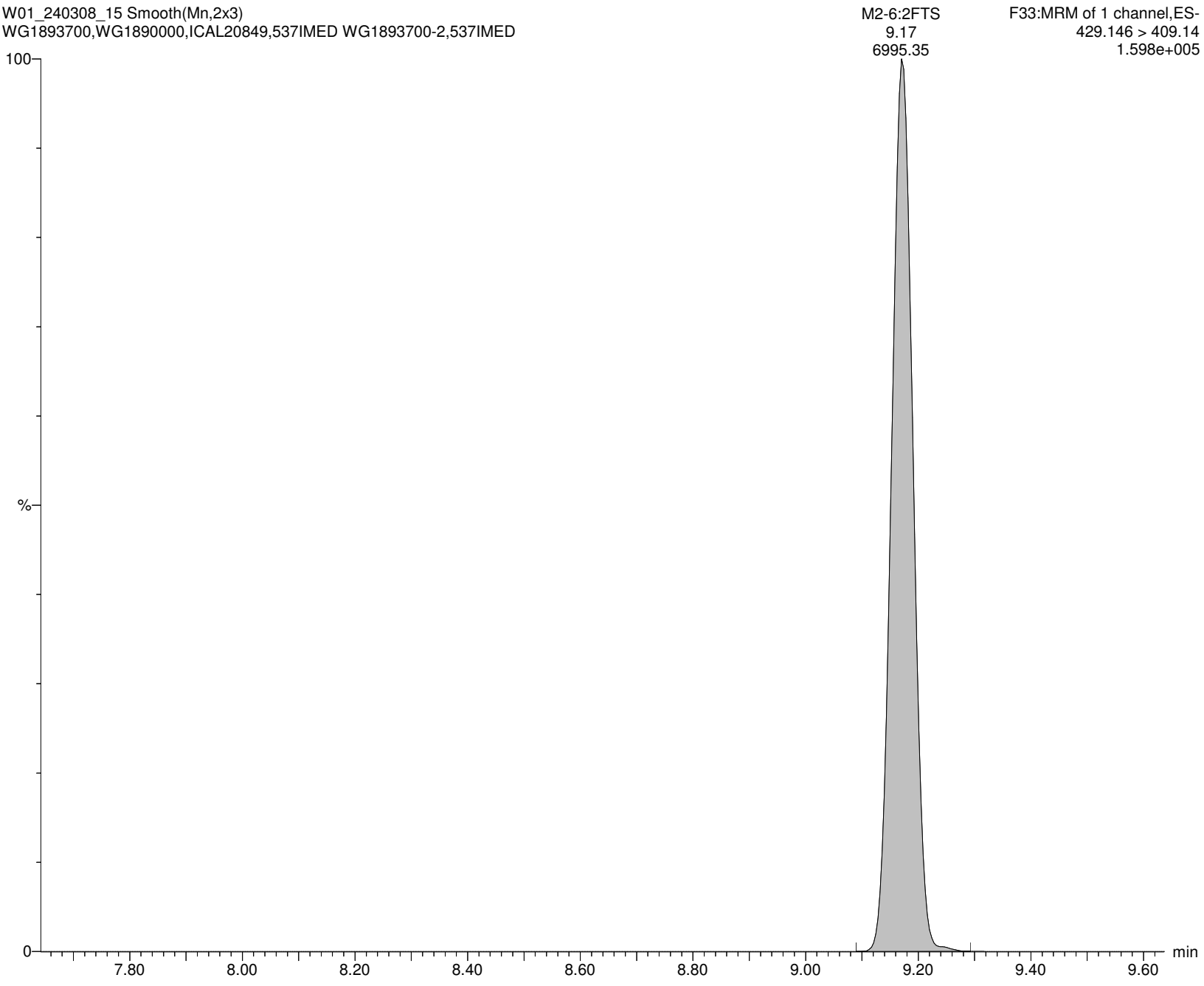

all concentration units in (ng/mL)

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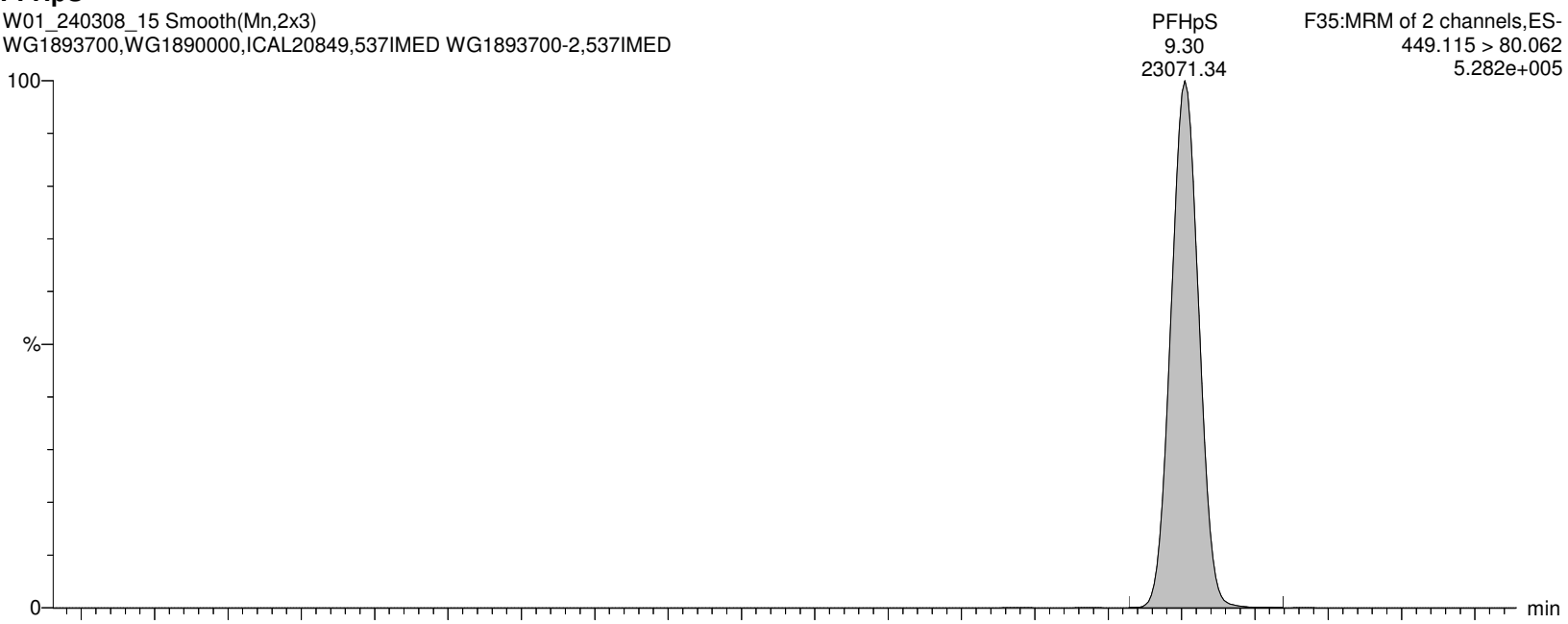

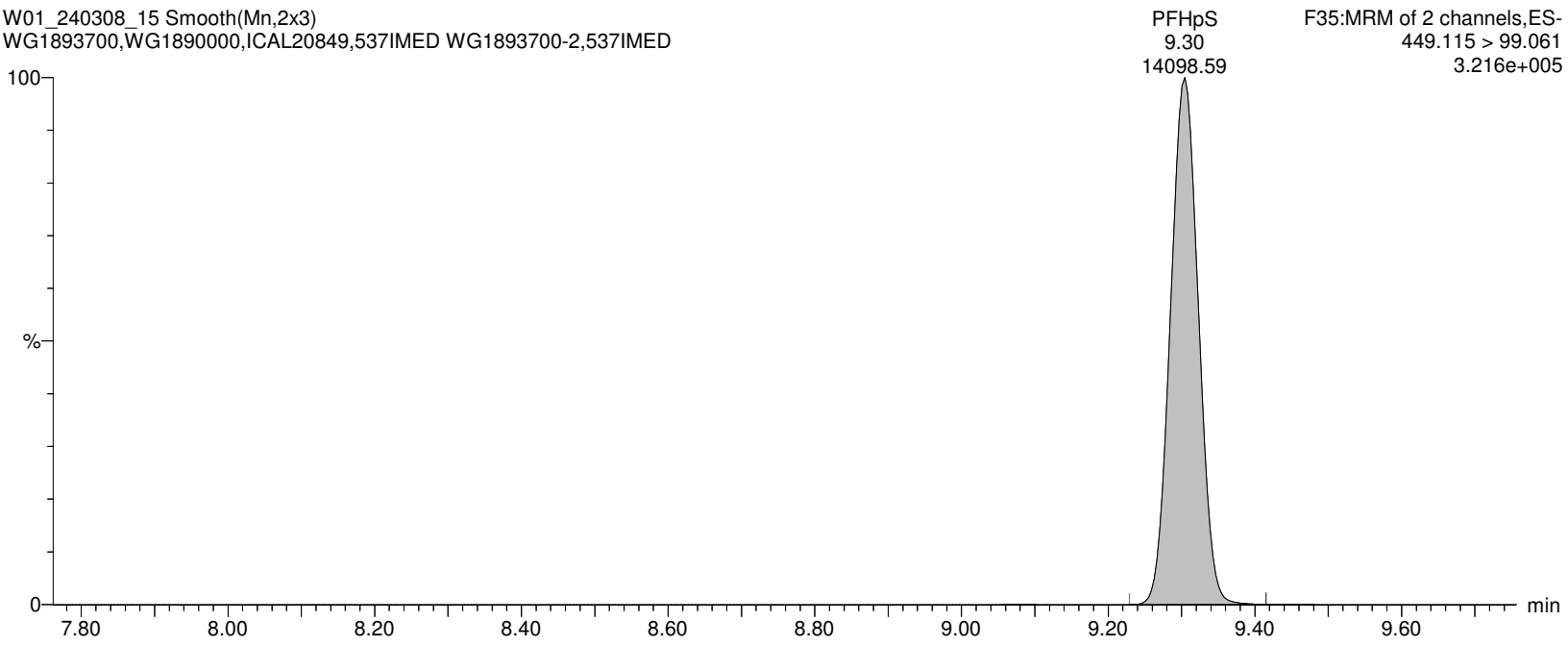

all concentration units in (ng/mL)

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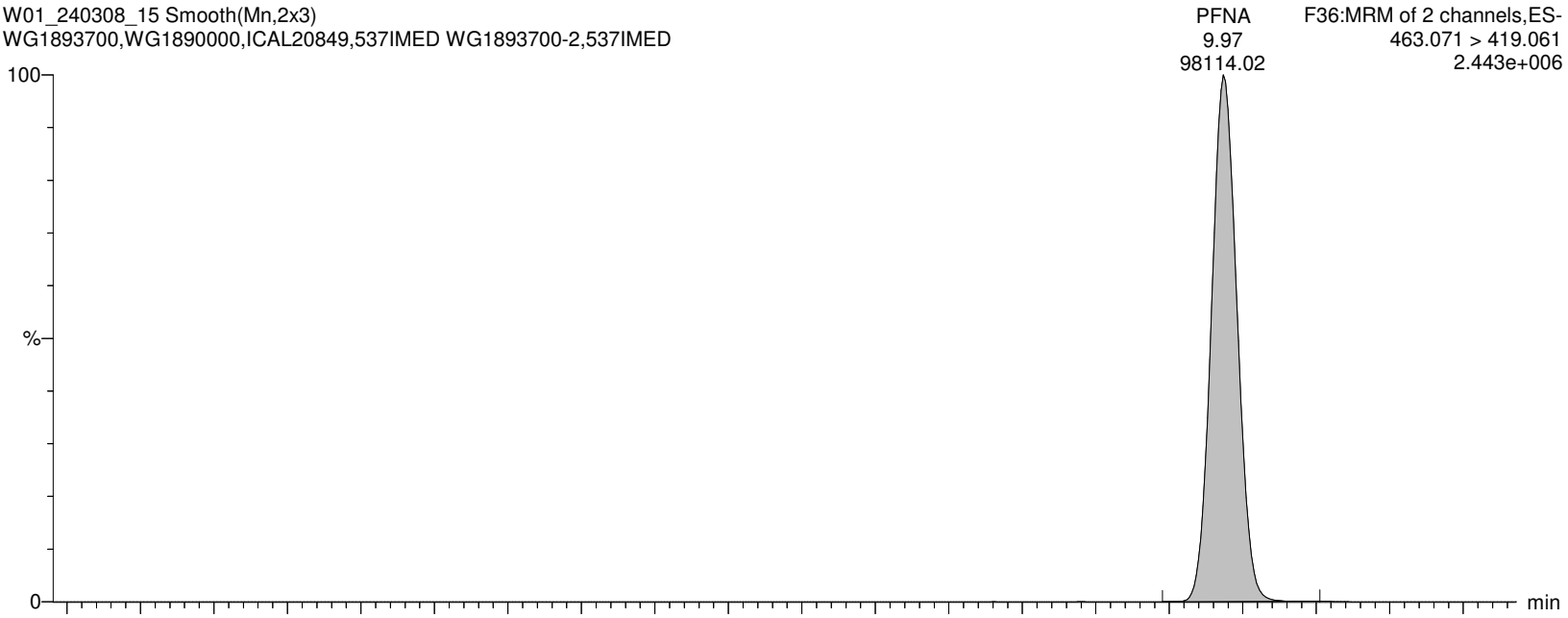

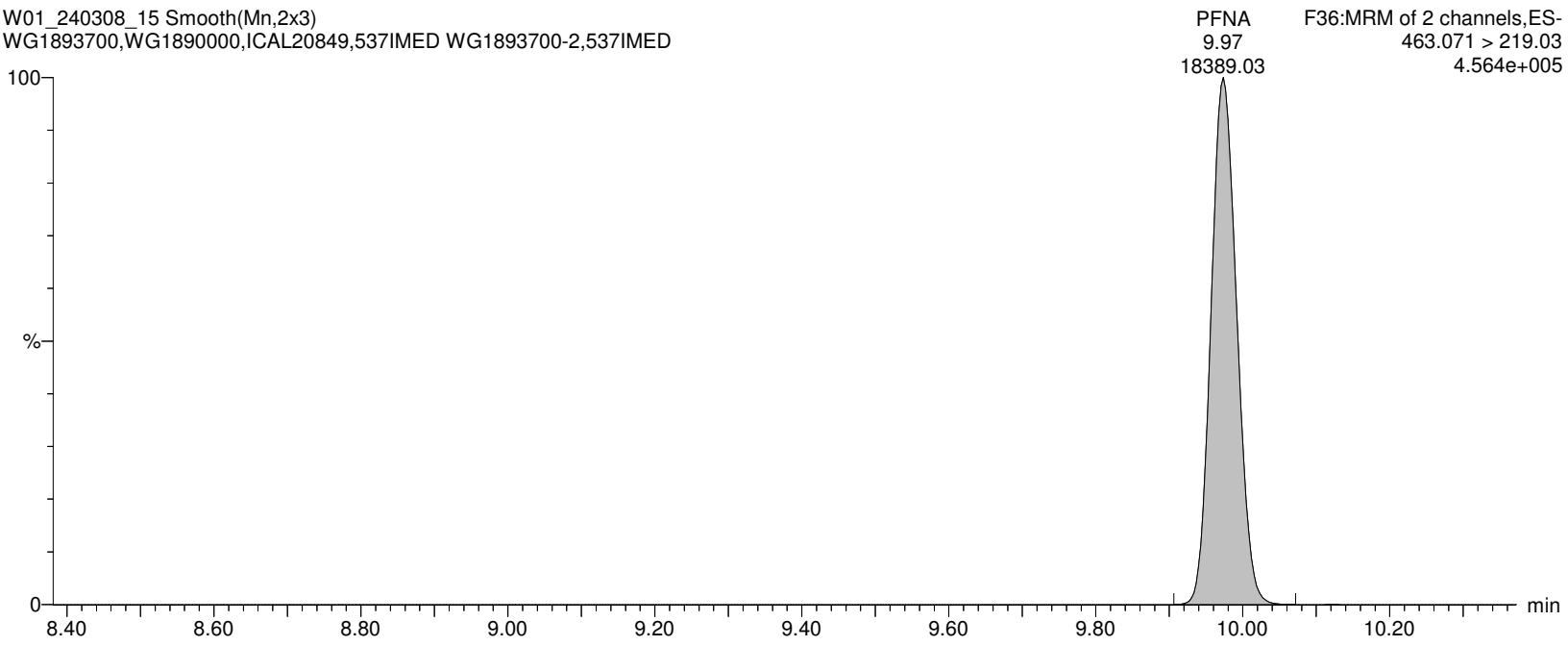

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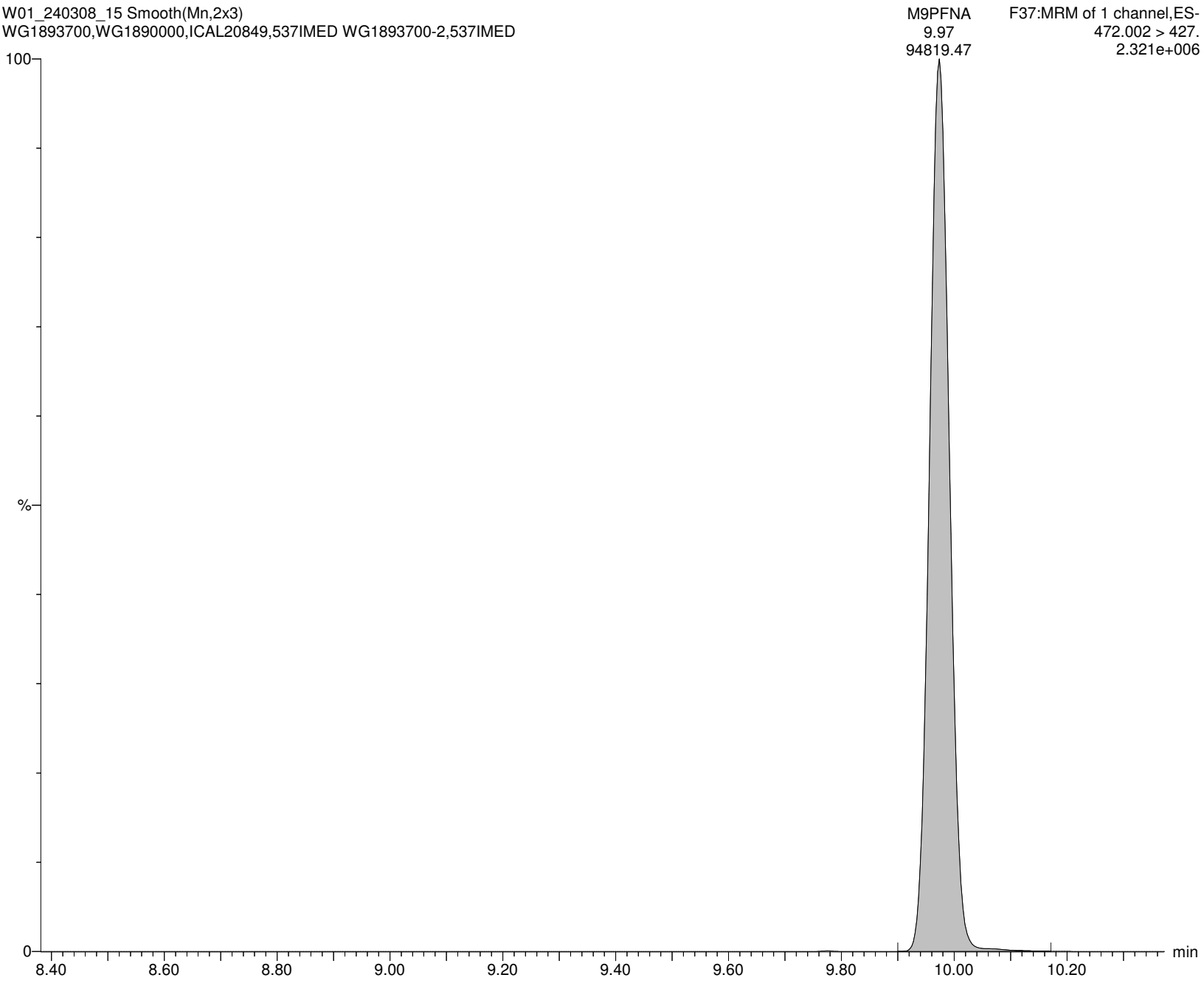

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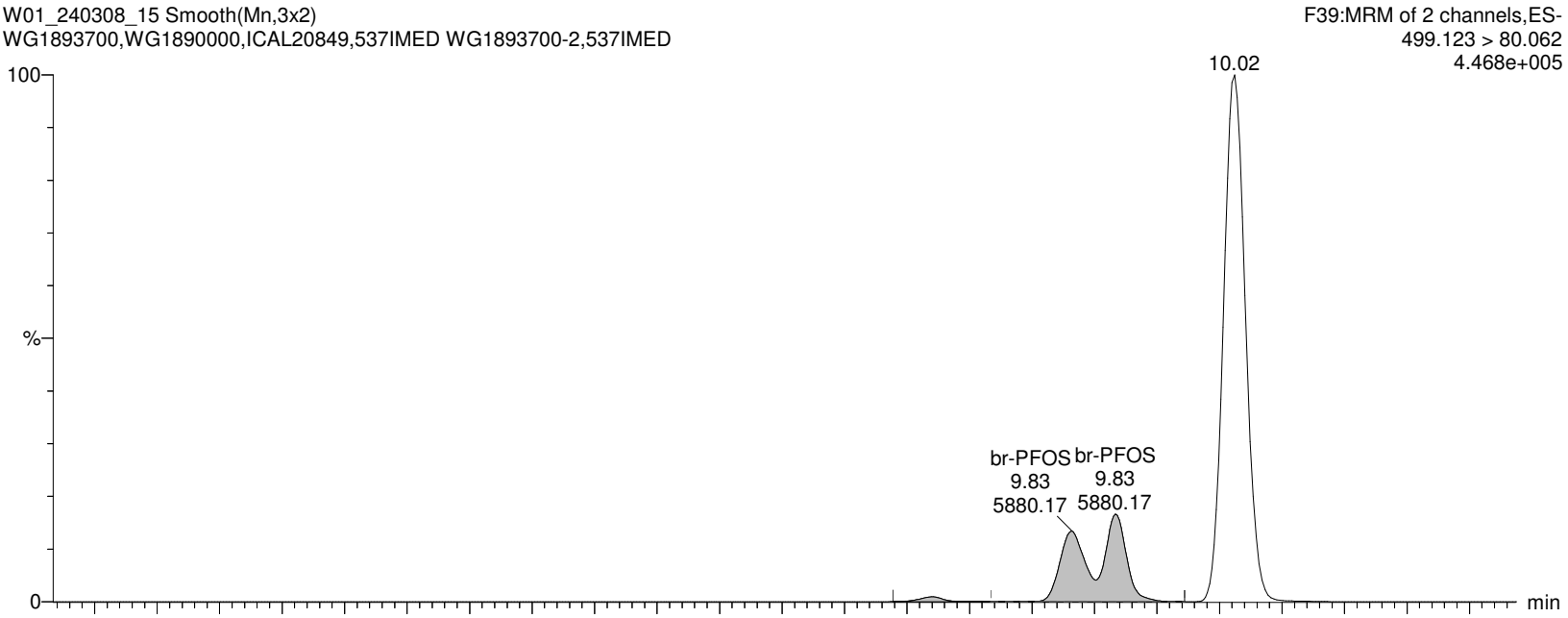

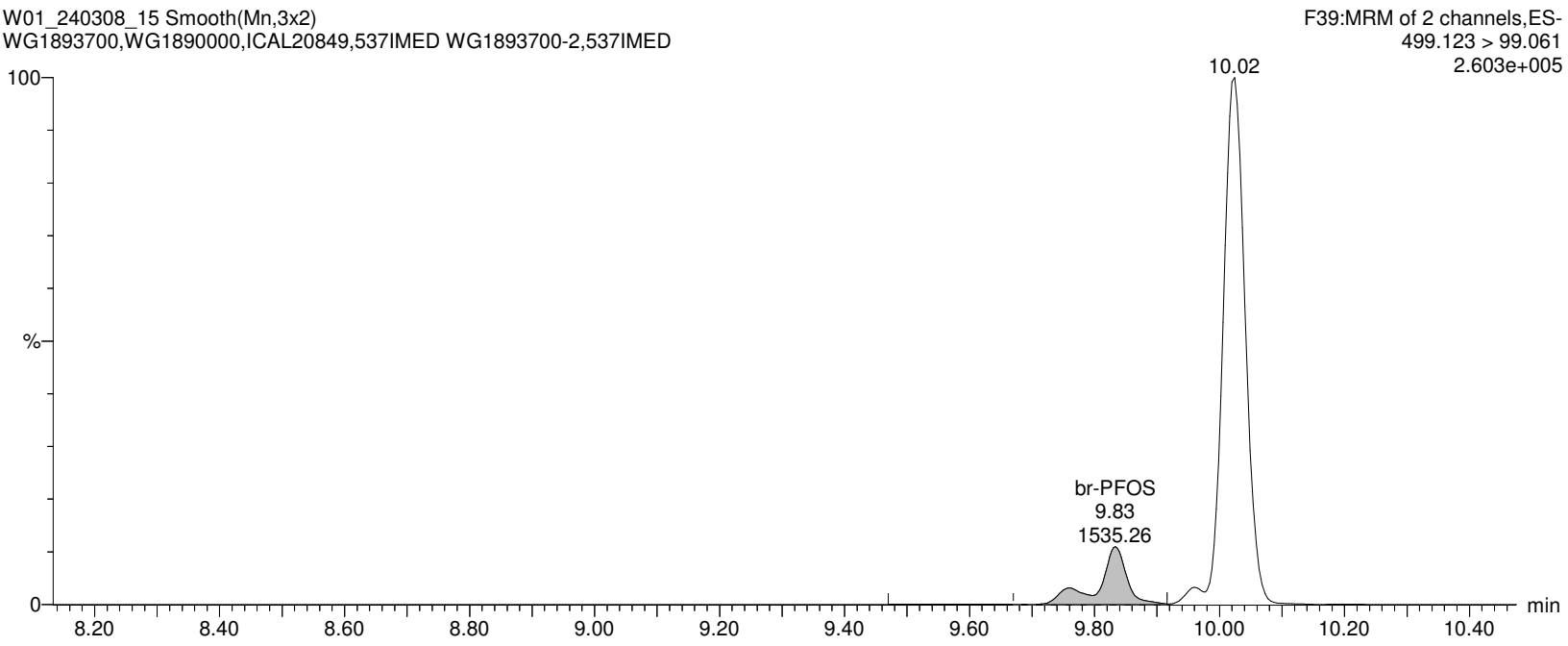

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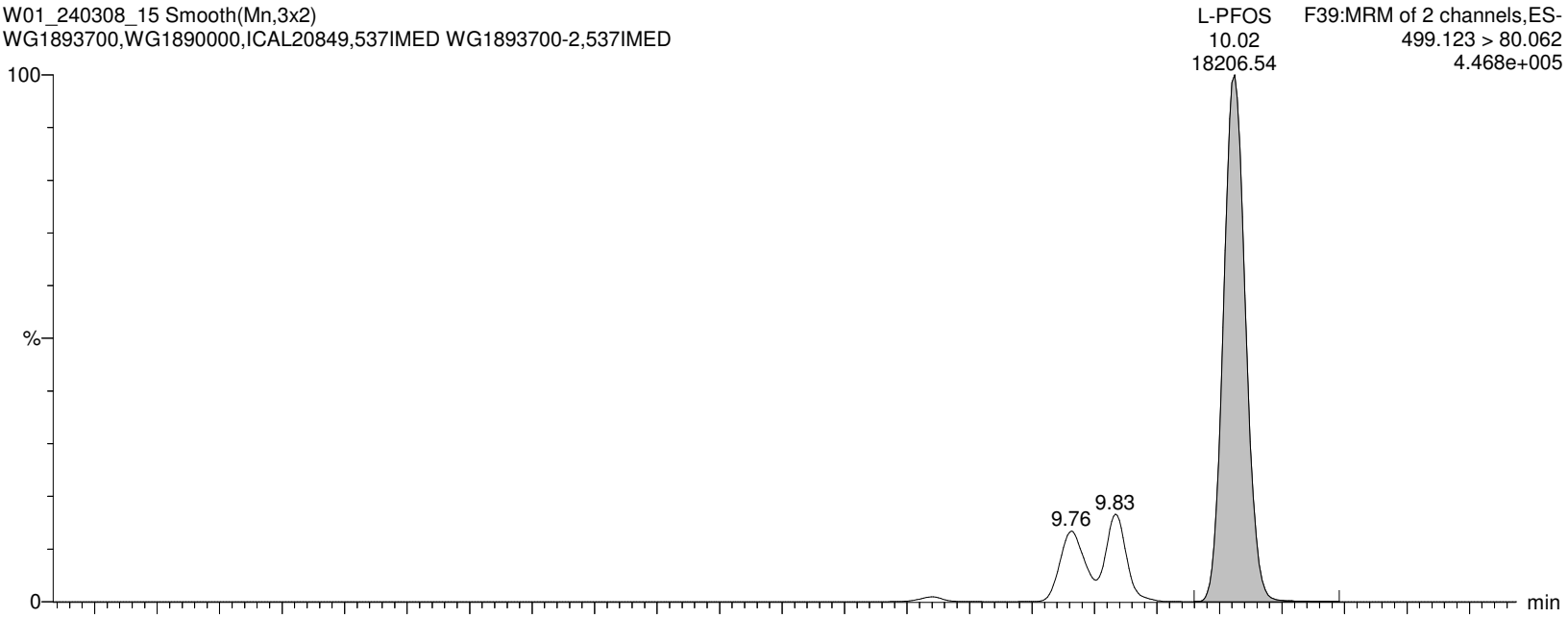
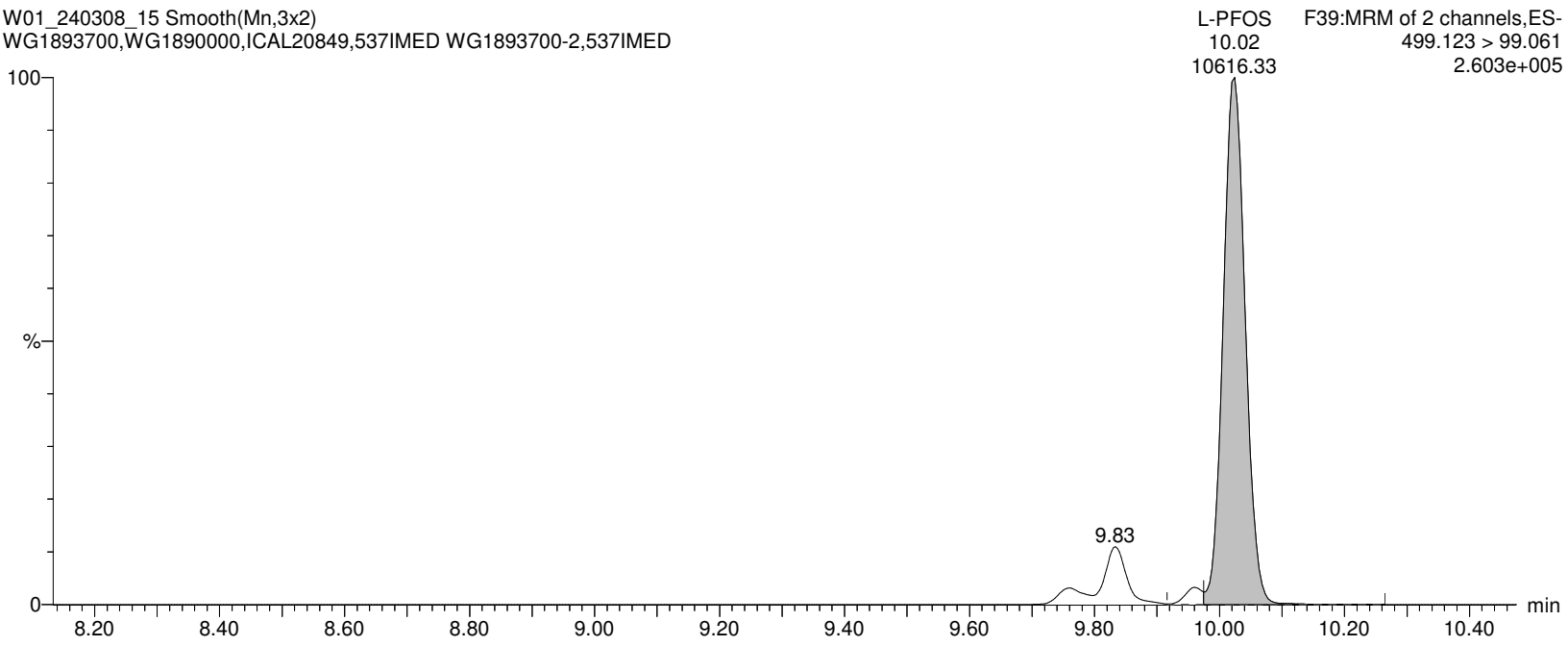
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
Printed: Friday, March 08, 2024 14:42:06 Eastern Standard Time

Name: W01_240308_15
ID: WG1893700-2,537IMED
Date: 08-Mar-2024
Time: 08:55:30
Description: WG1893700,WG1890000,ICAL20849,537IMED
User: LCMS01:AC
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
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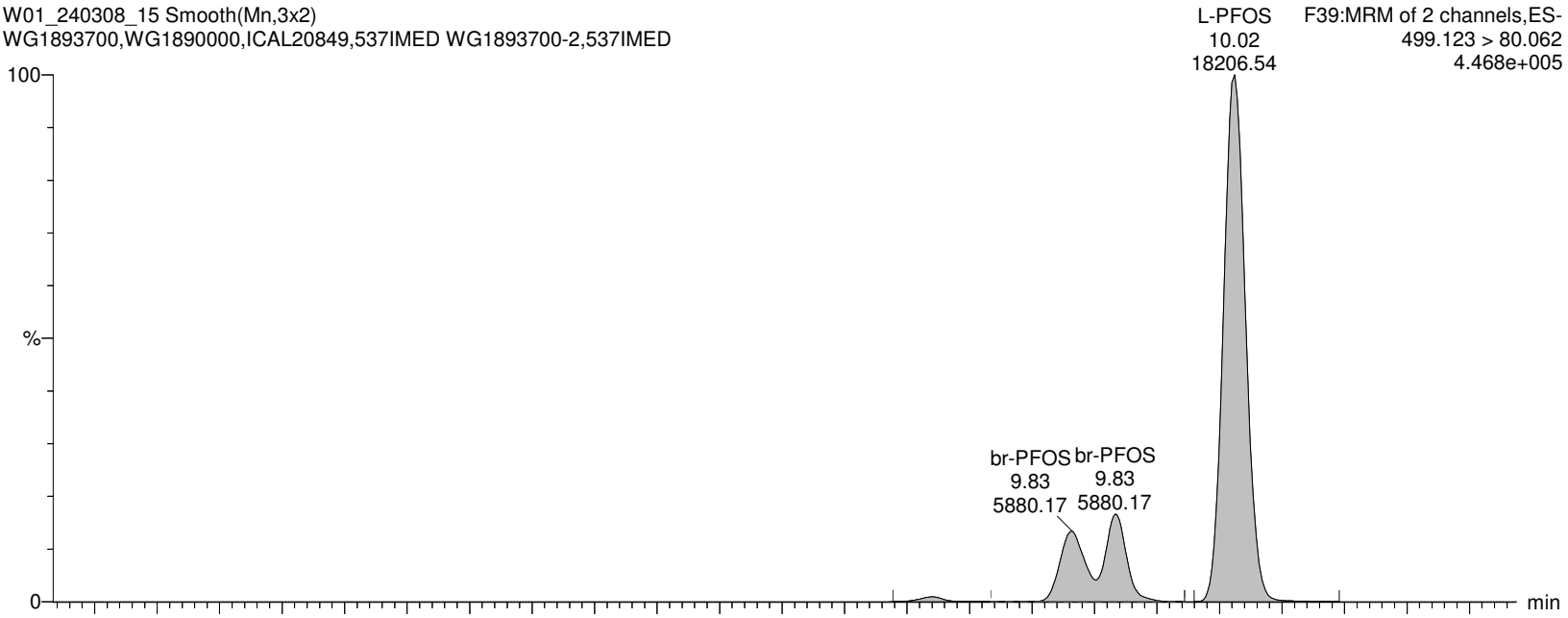

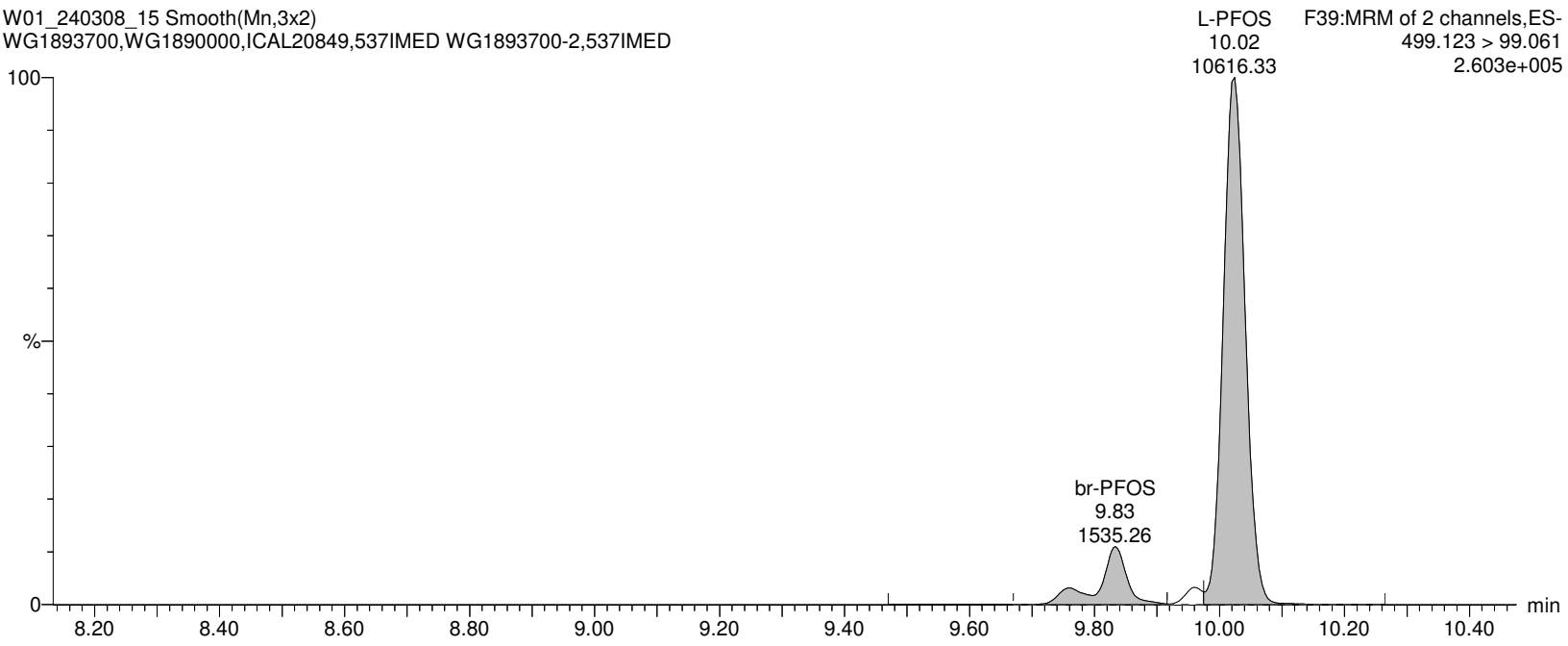

all concentration units in (ng/mL)

Alpha Analytical Inc.
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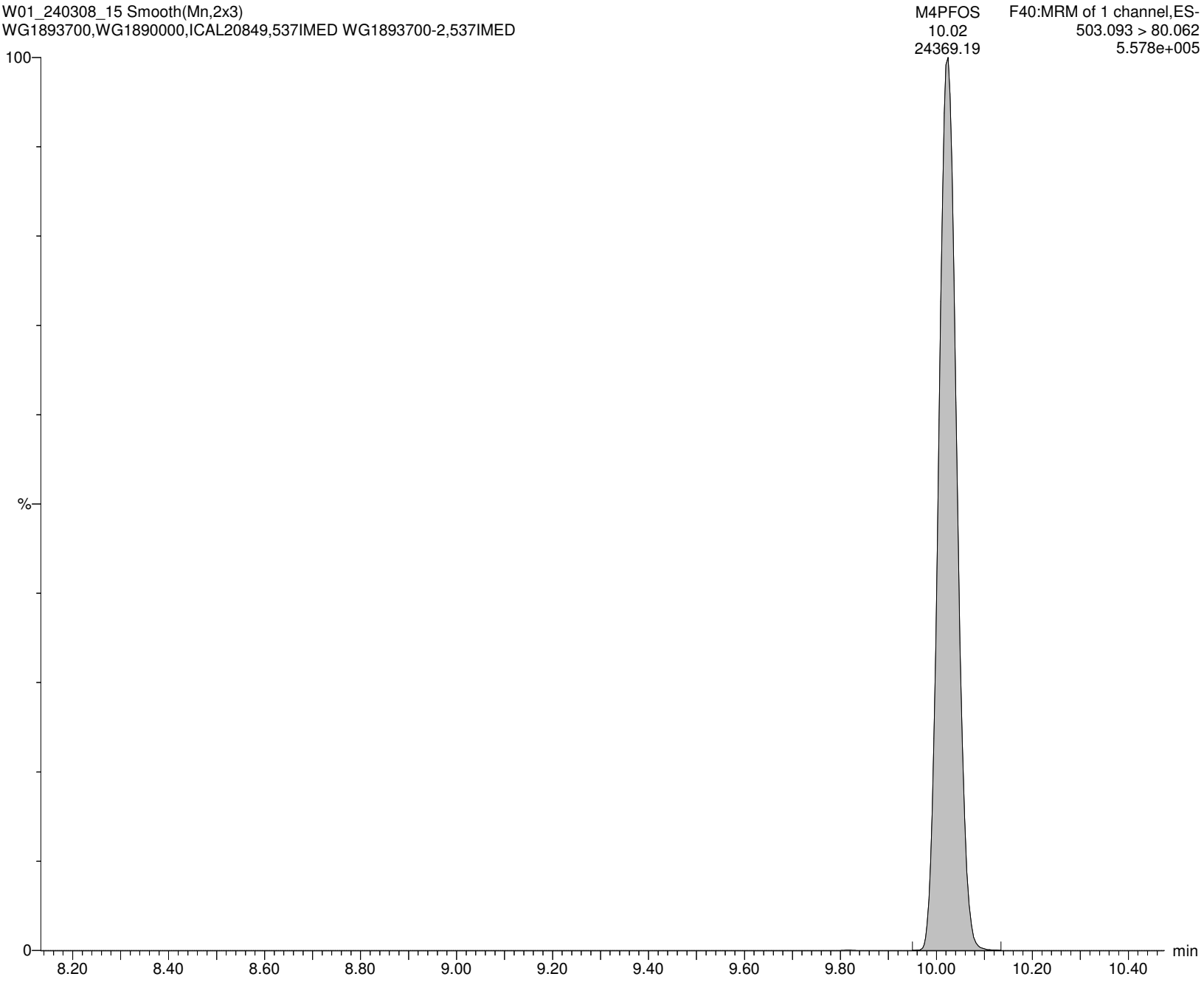

all concentration units in (ng/mL)

Alpha Analytical Inc.
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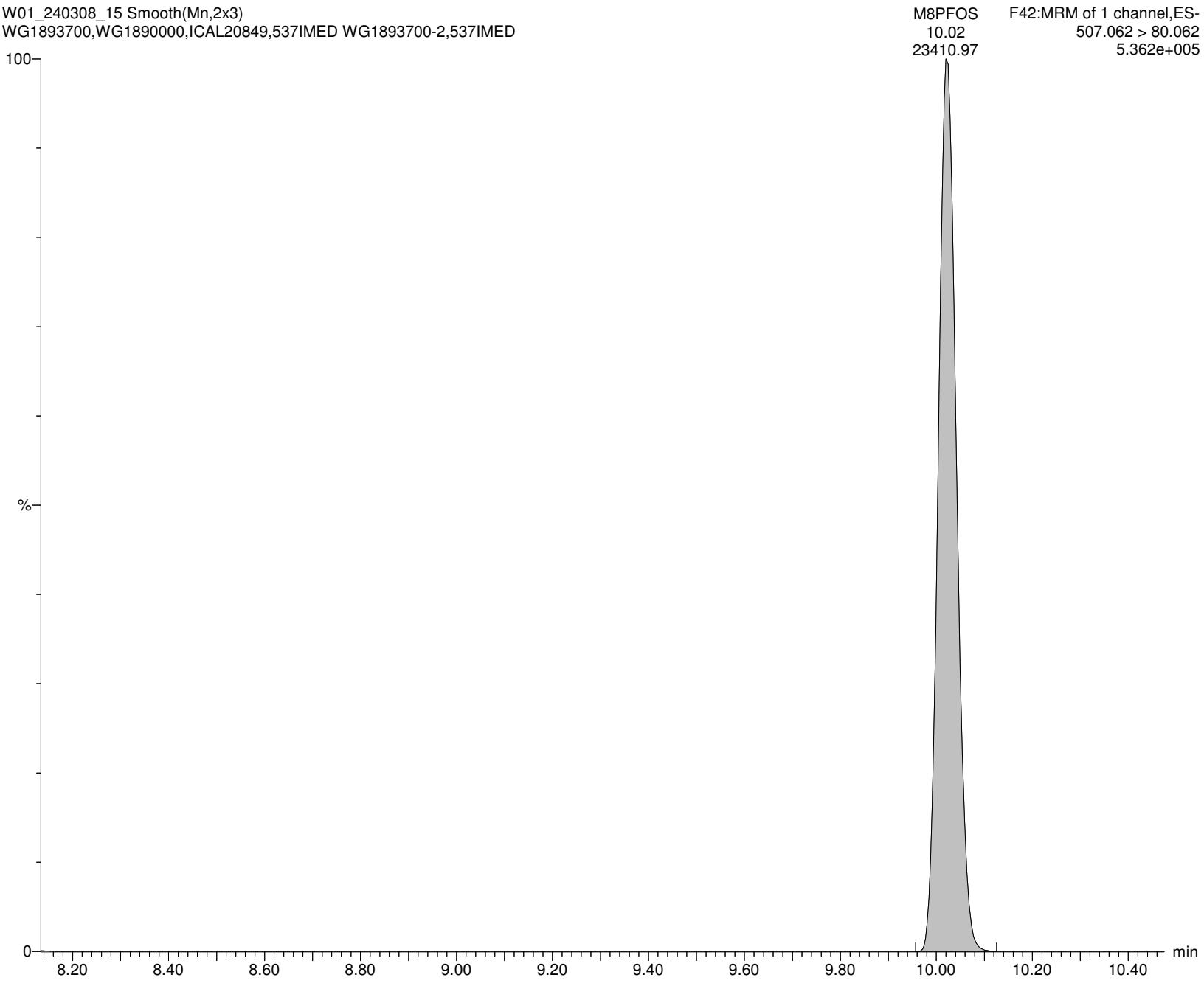

all concentration units in (ng/mL)

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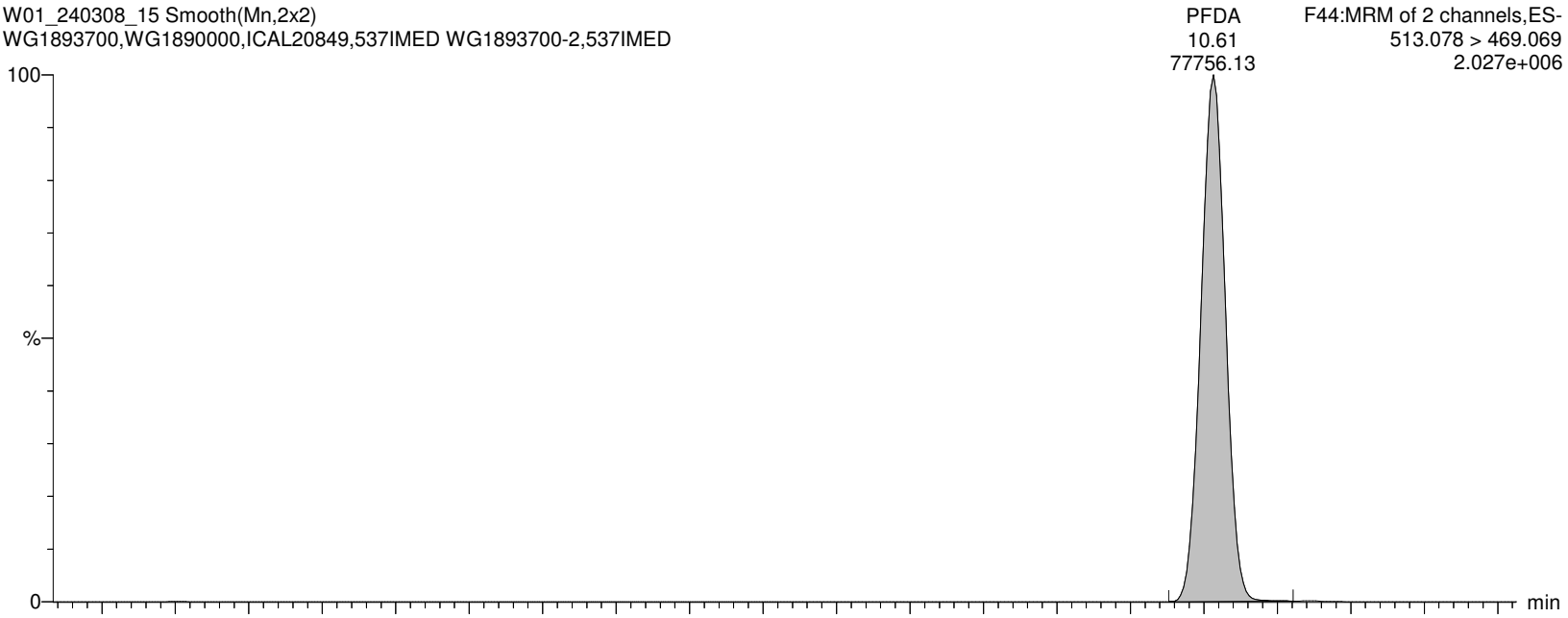
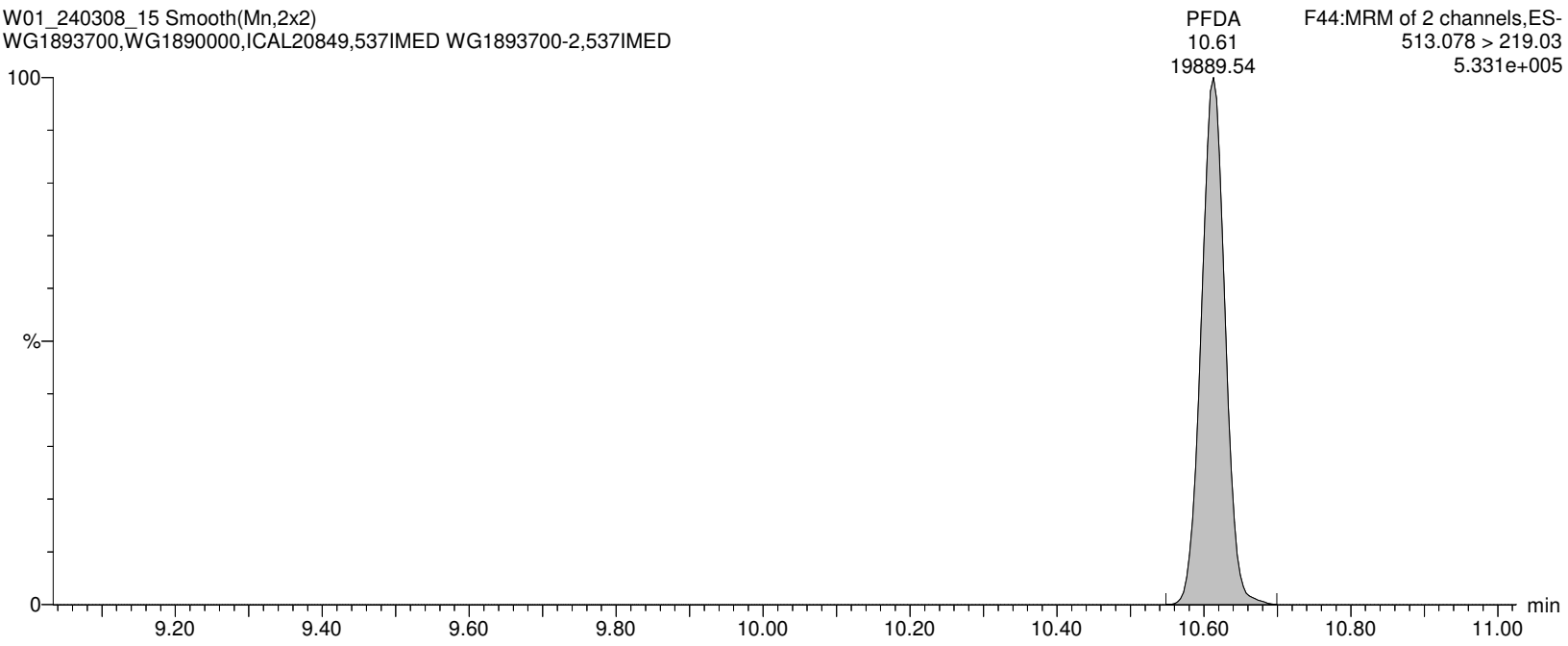
PFDA





all concentration units in (ng/mL)

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Vial: 1:A,3
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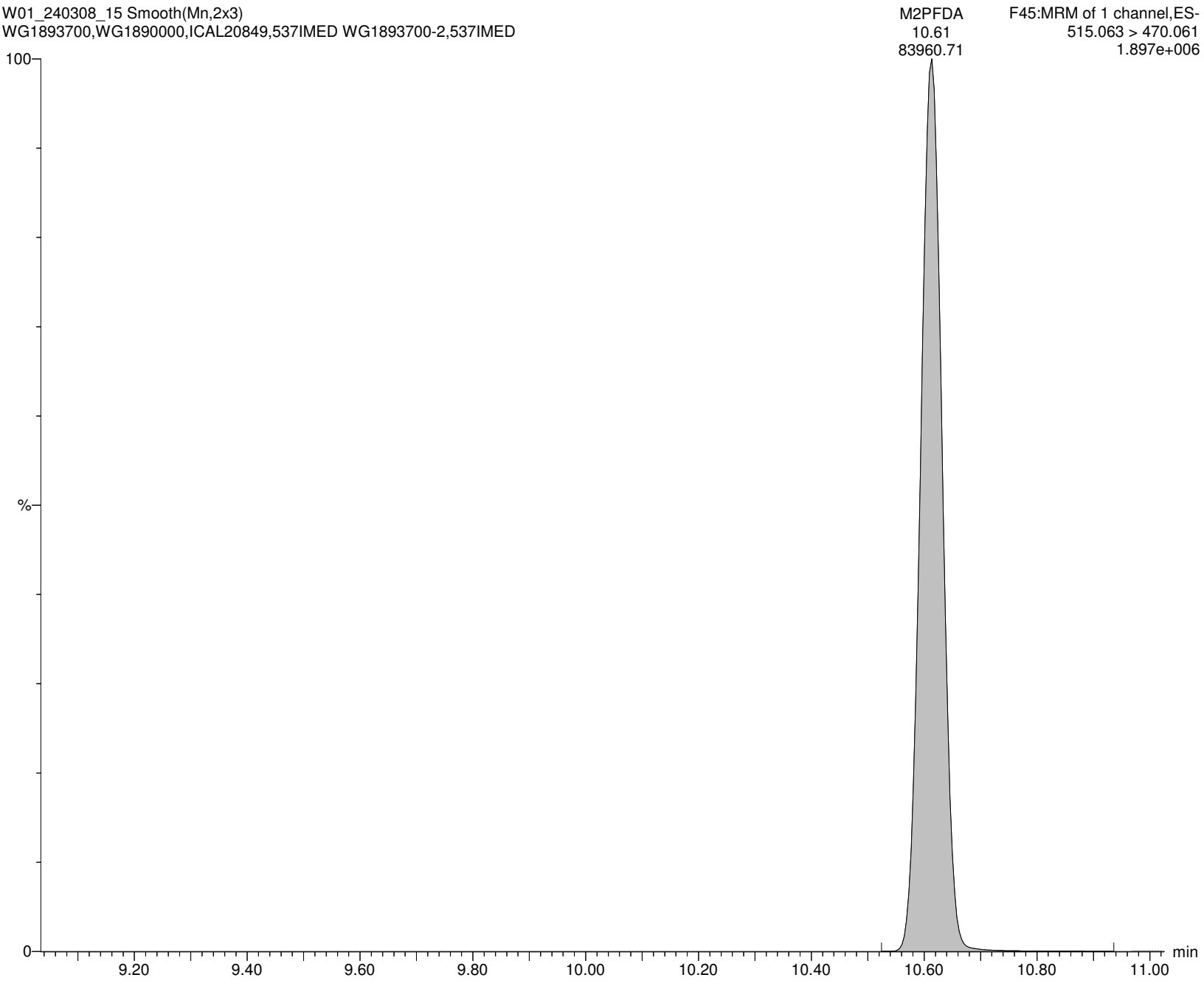
M2PFDA



all concentration units in (ng/mL)

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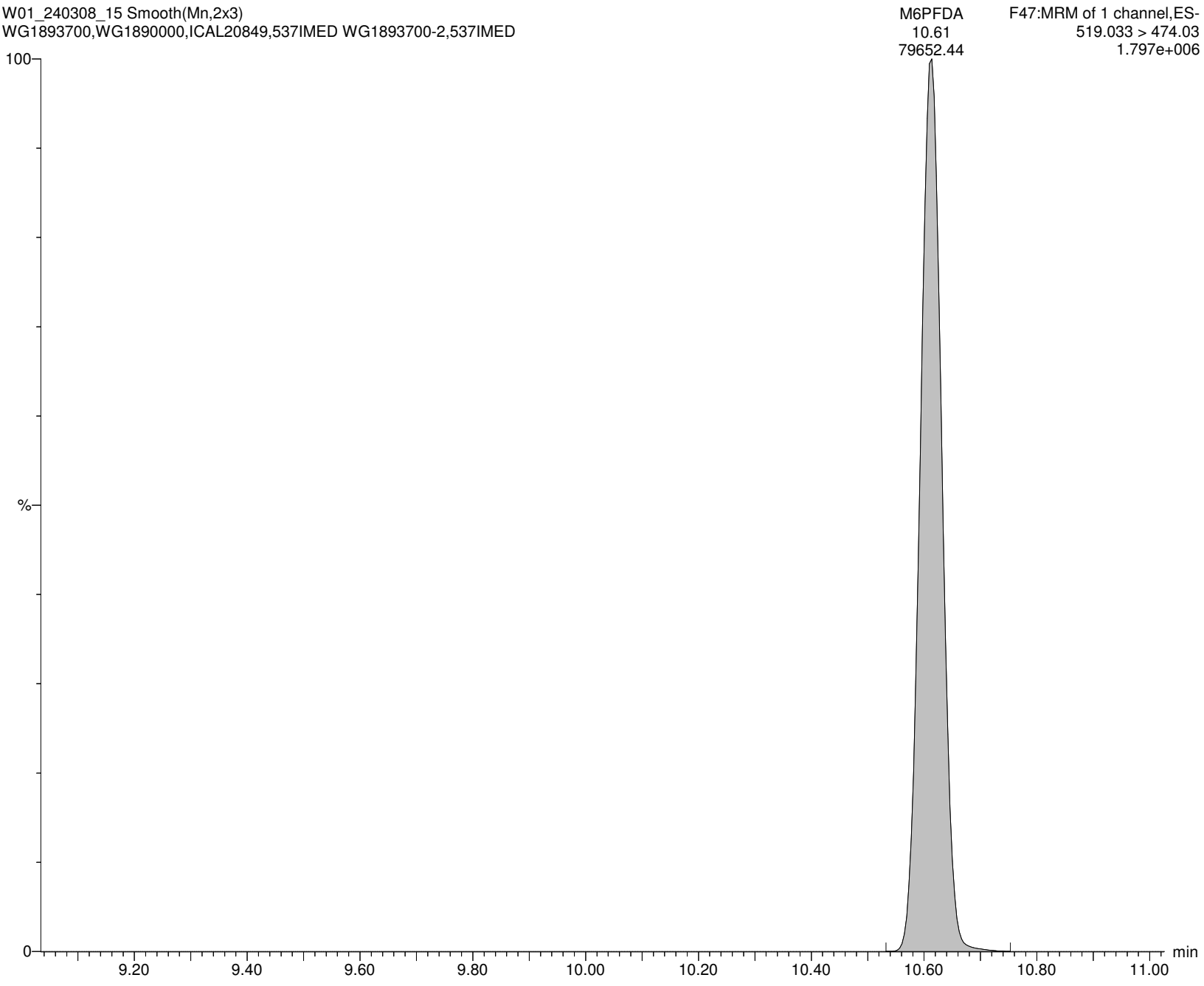
M6PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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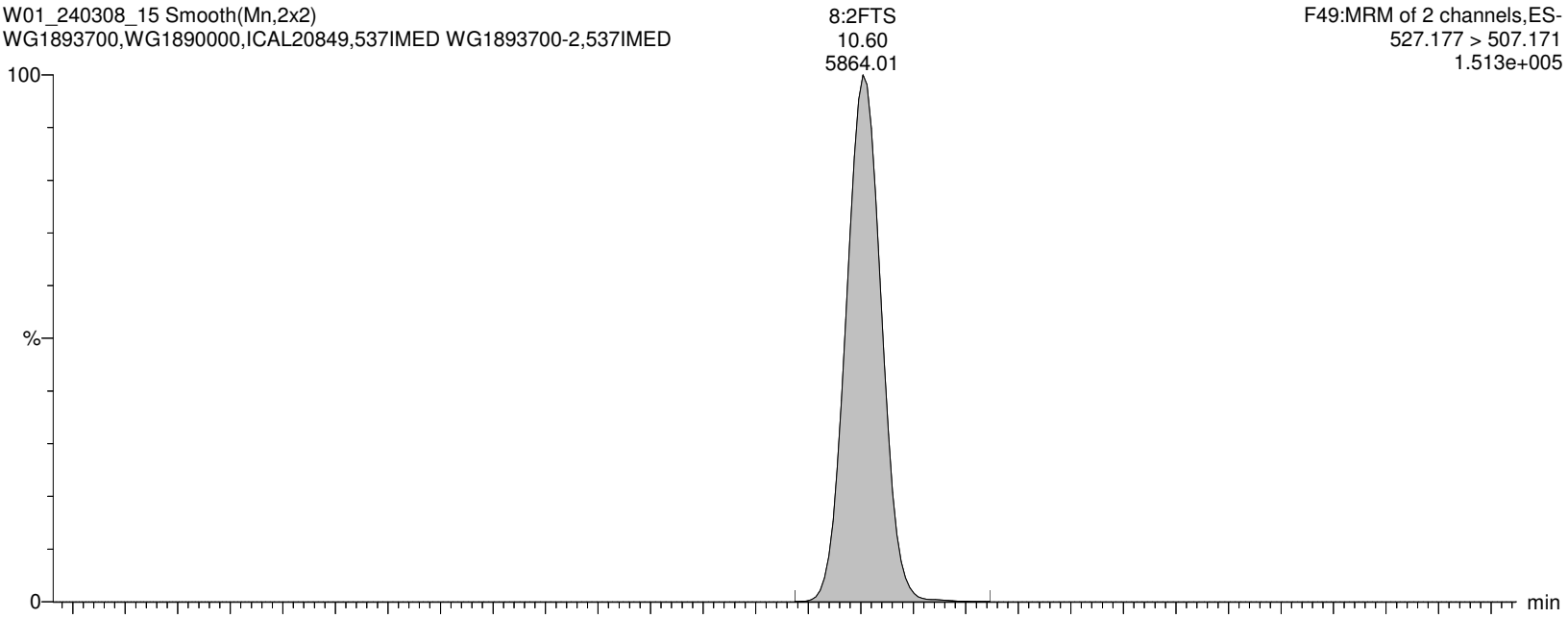
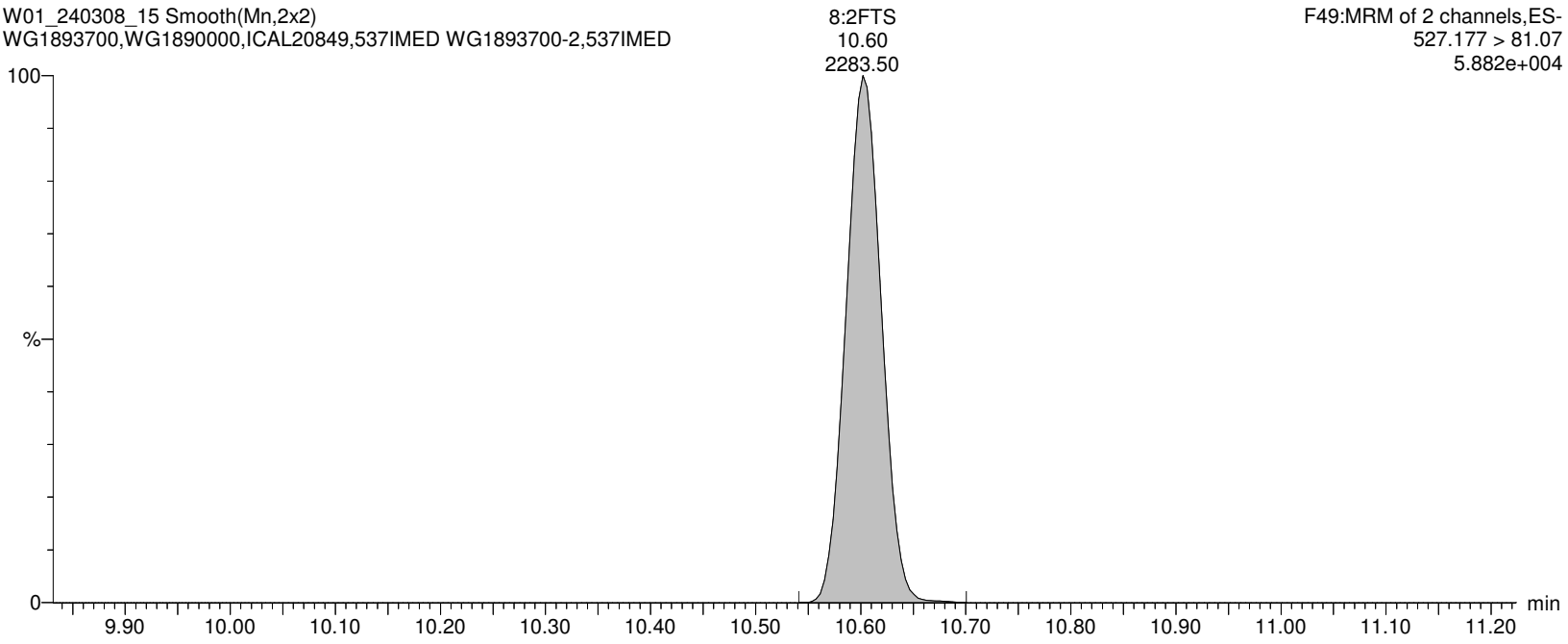
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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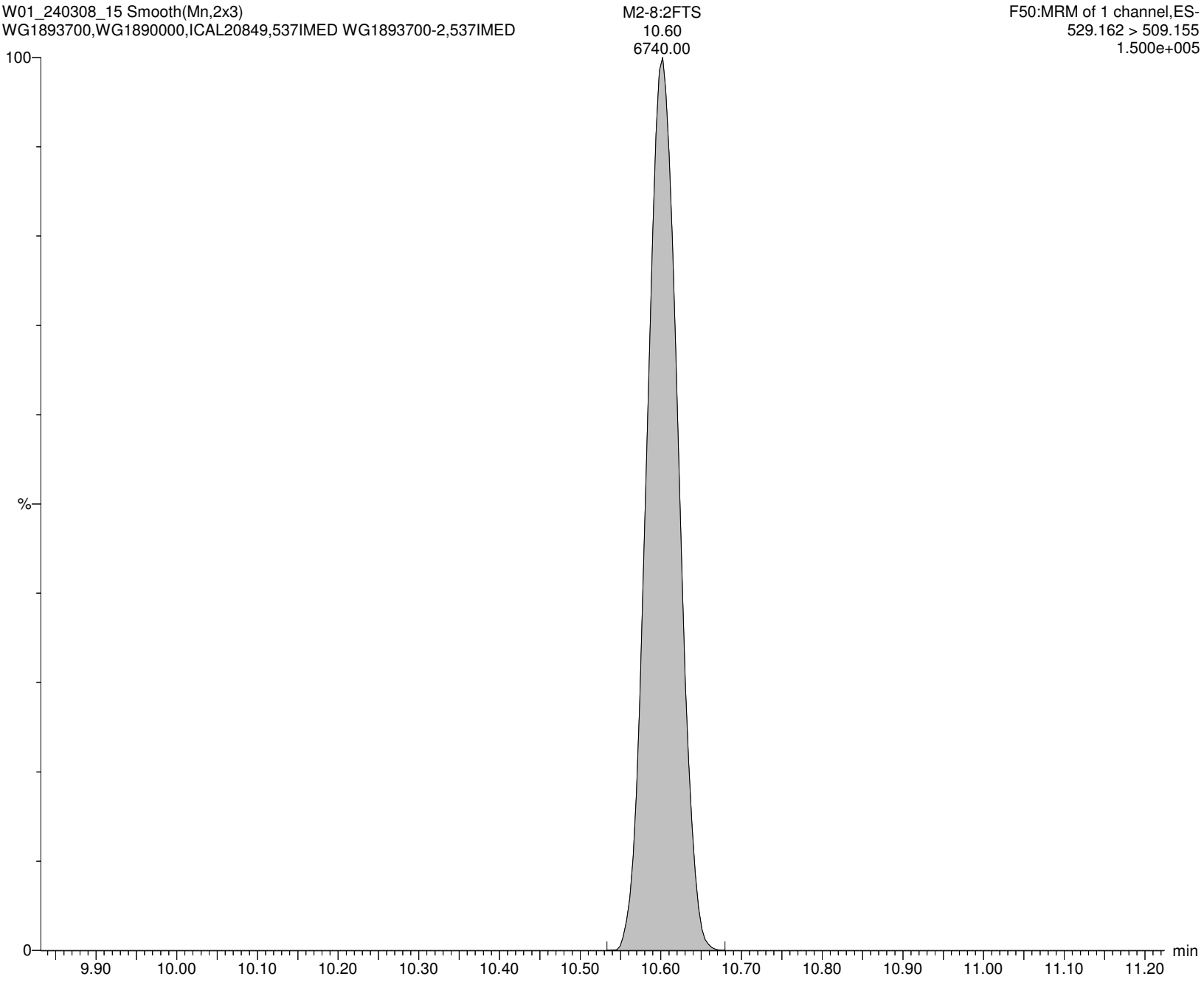

all concentration units in (ng/mL)

Alpha Analytical Inc.
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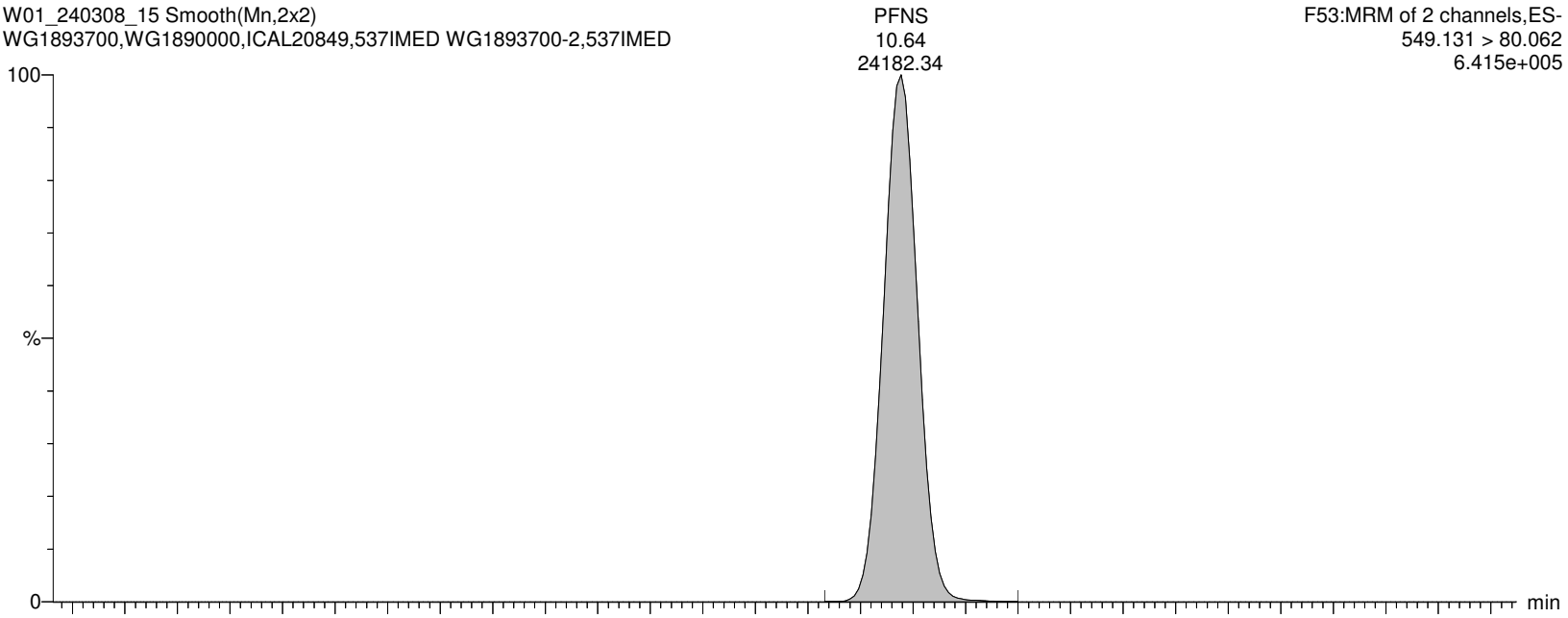
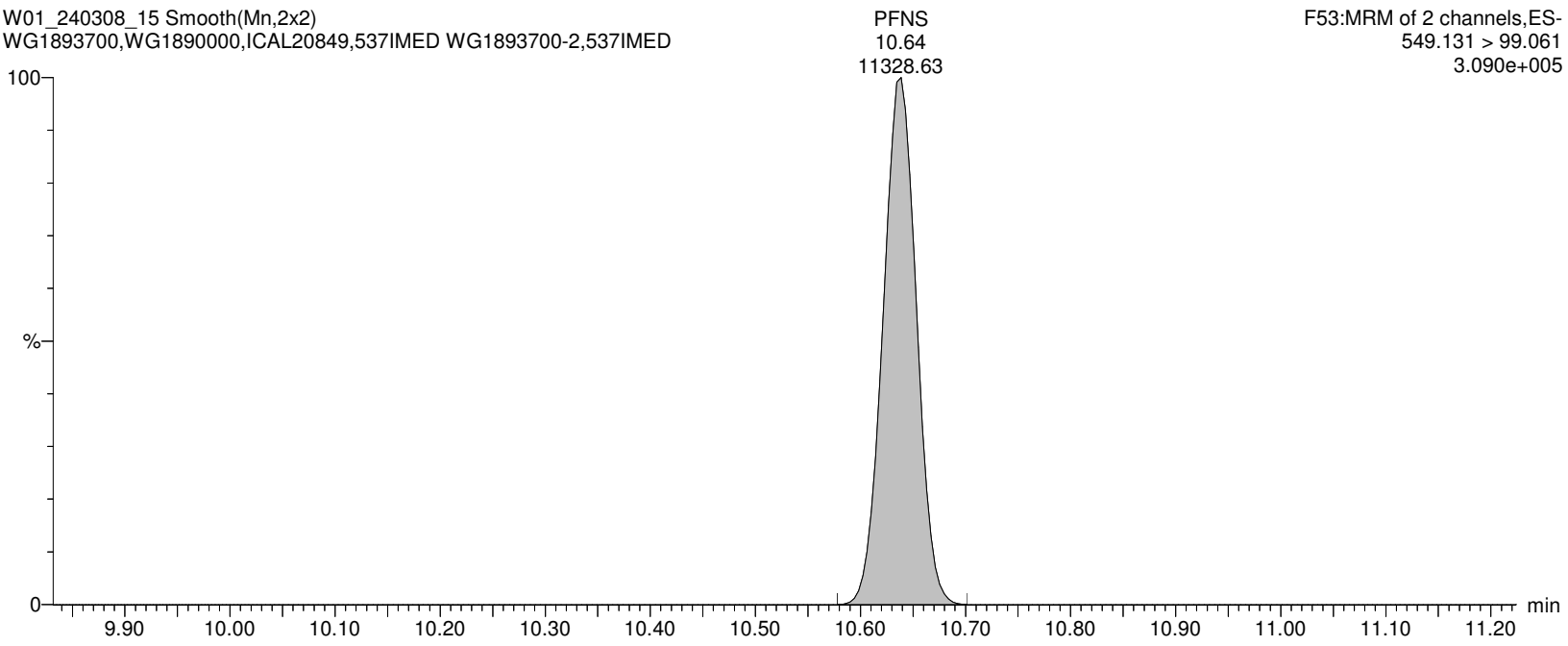
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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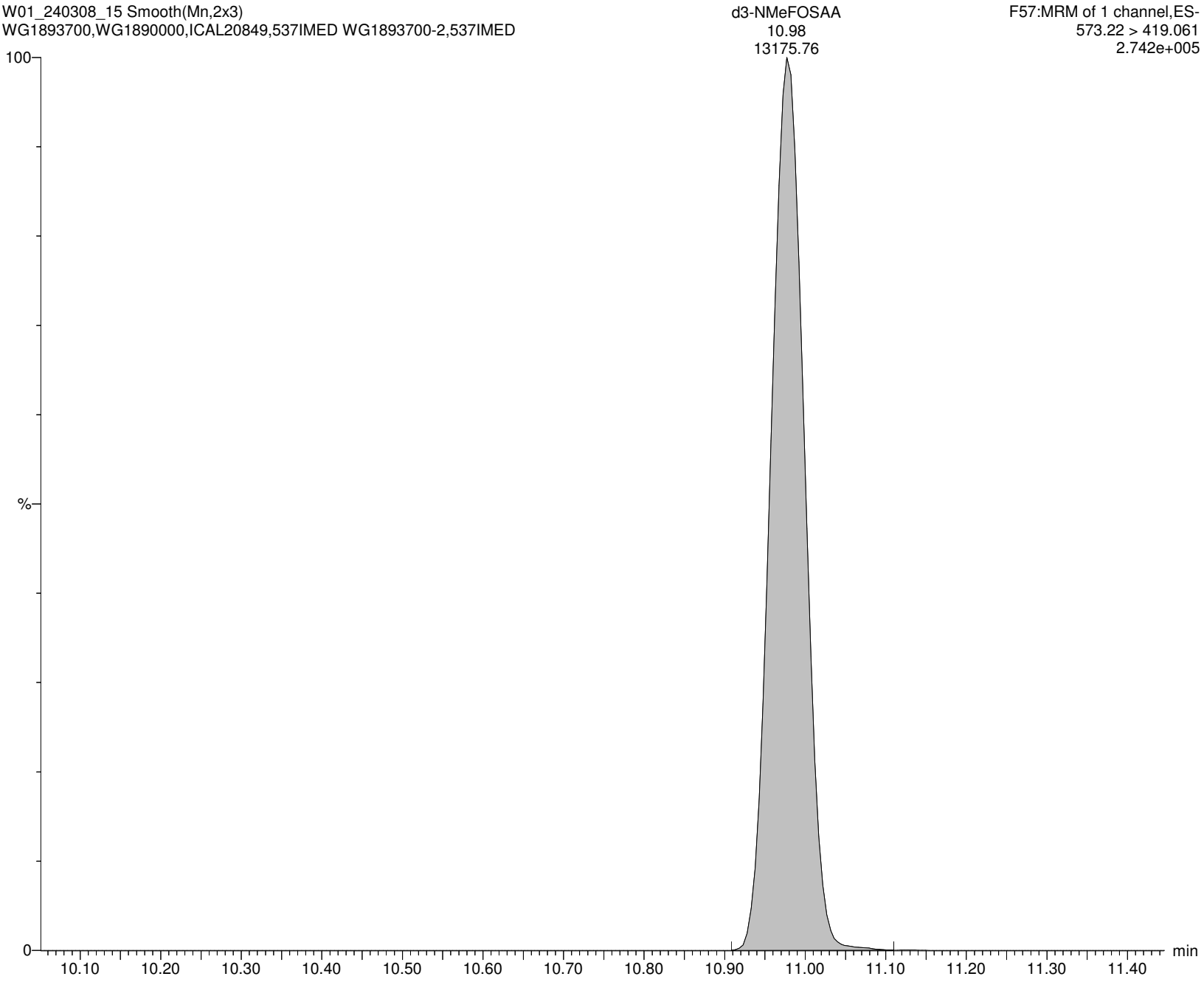
d3-NMeFOSAA



all concentration units in (ng/mL)

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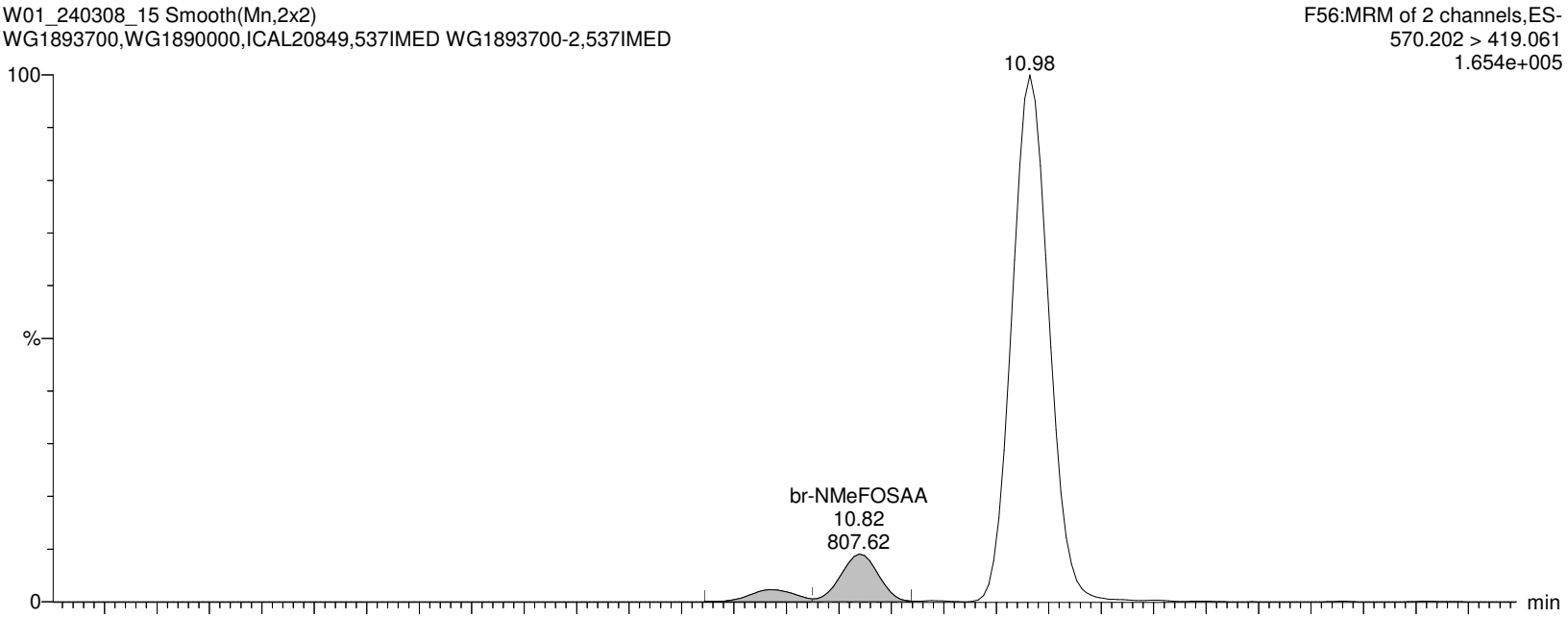

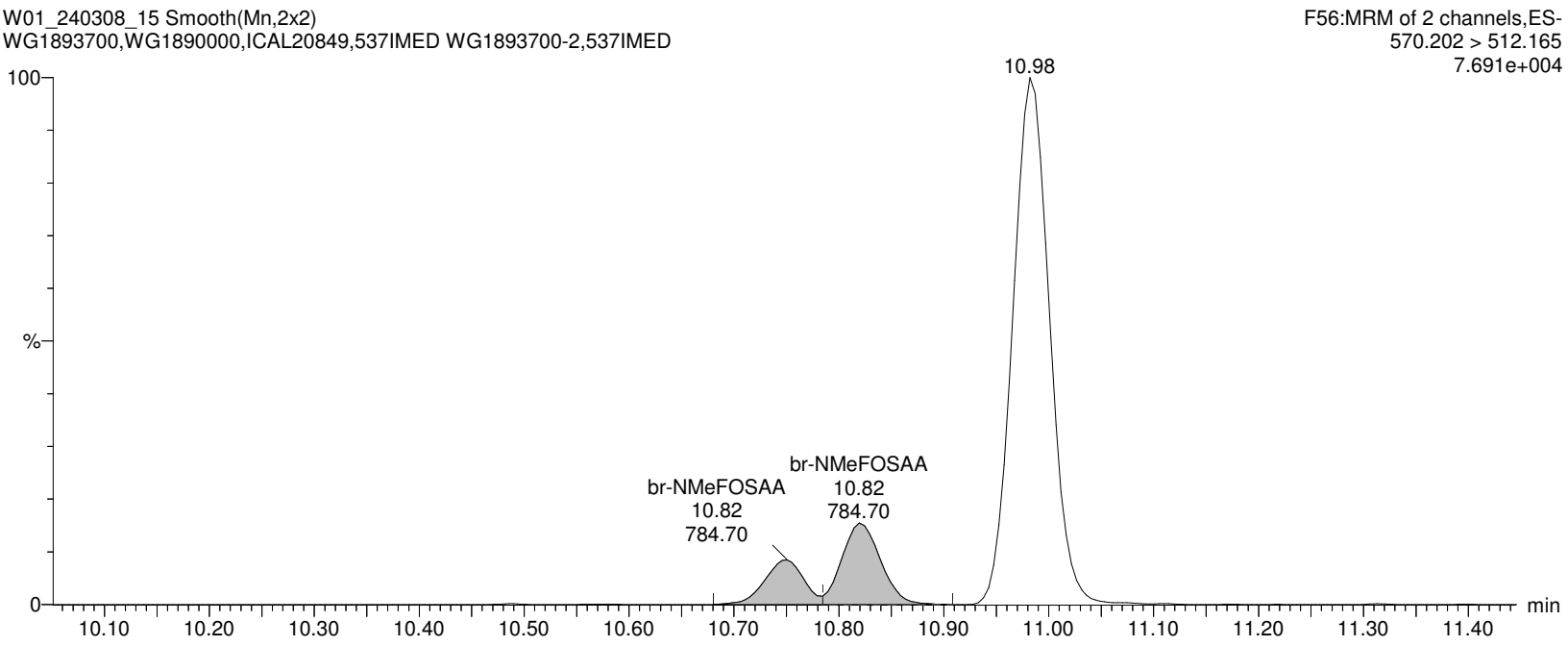

all concentration units in (ng/mL)

Alpha Analytical Inc.
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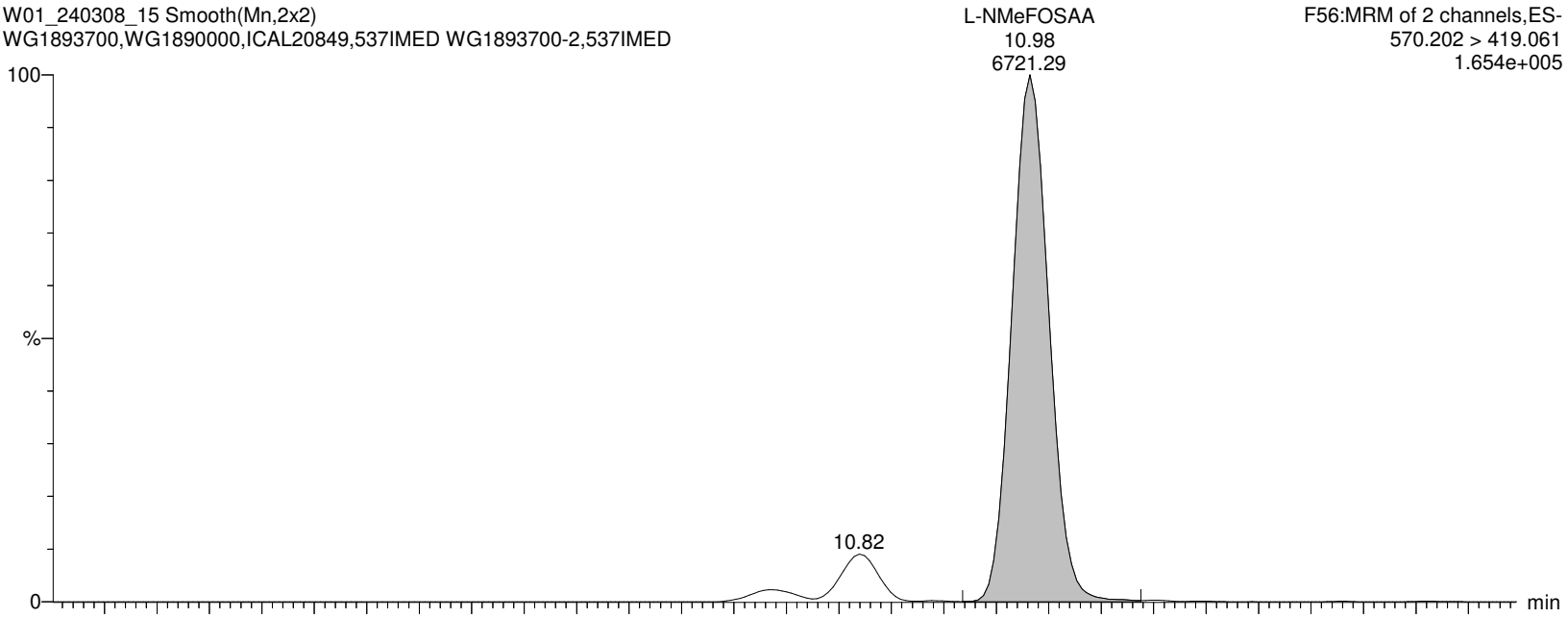

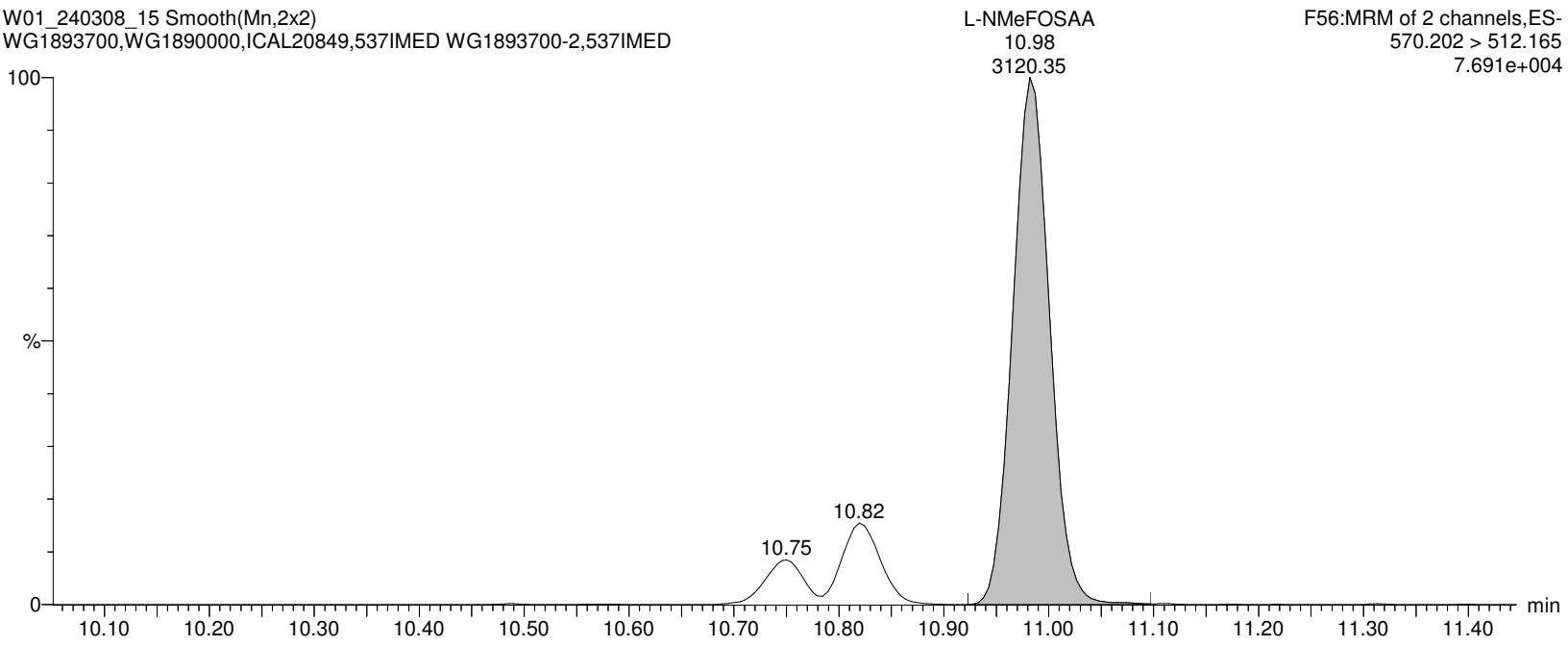

all concentration units in (ng/mL)

Alpha Analytical Inc.
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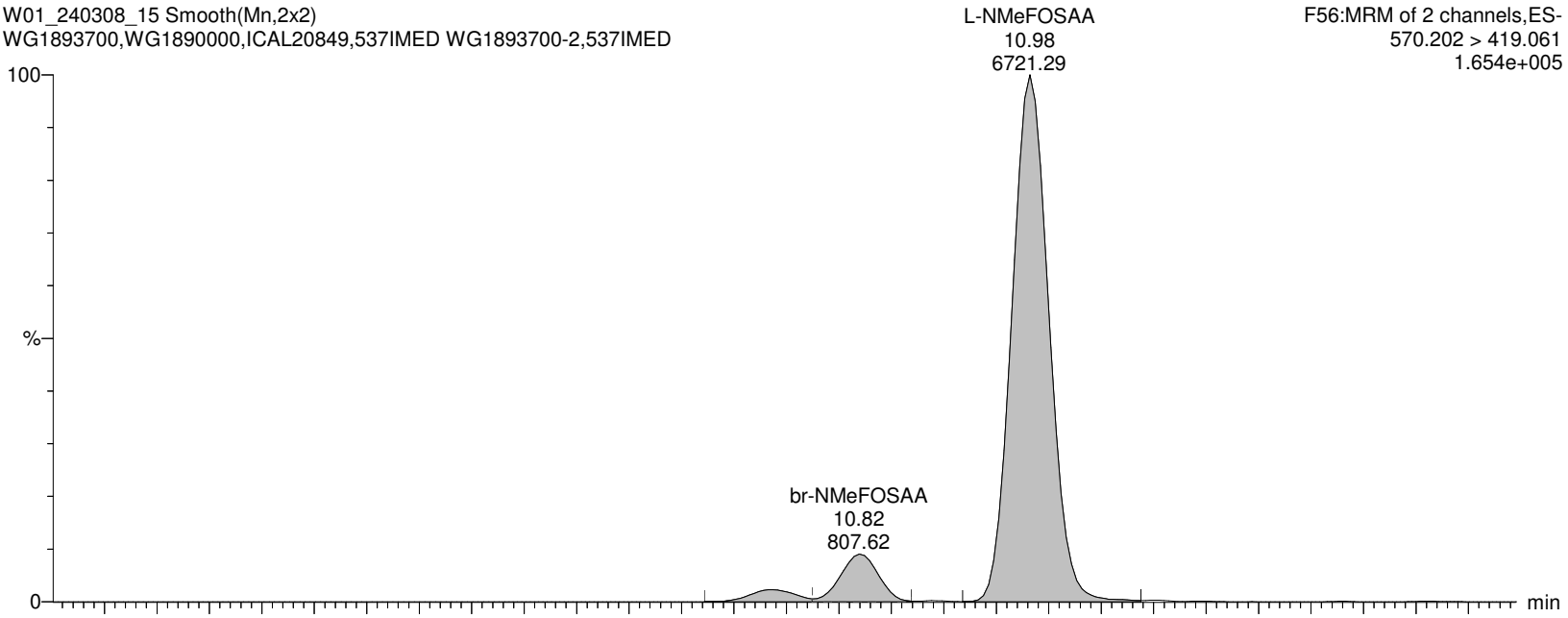

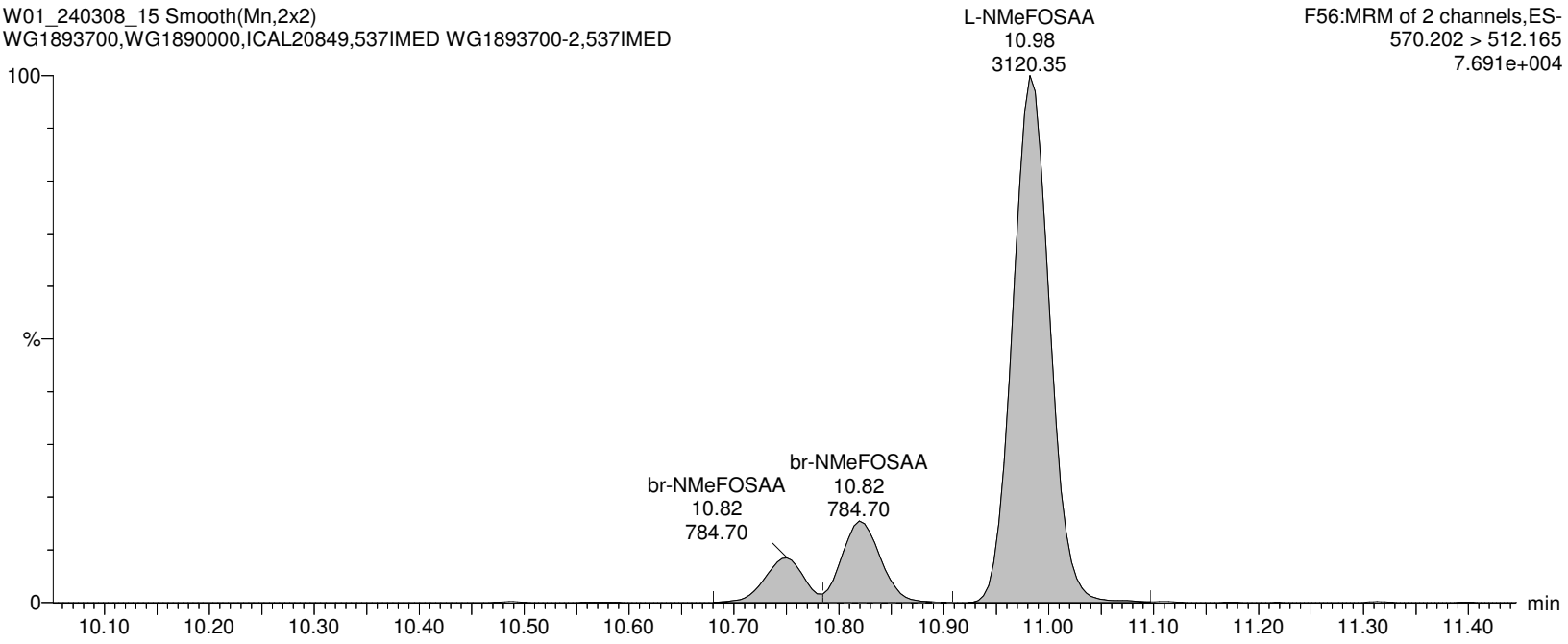

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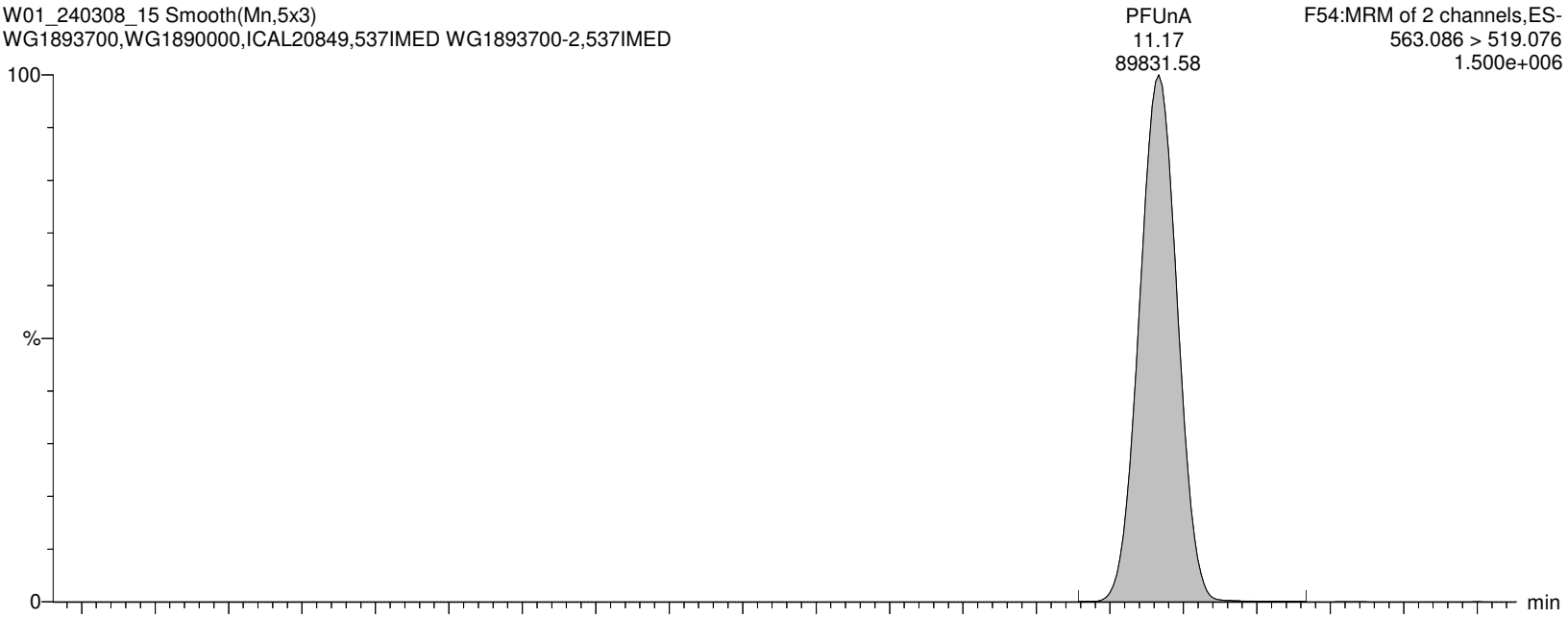

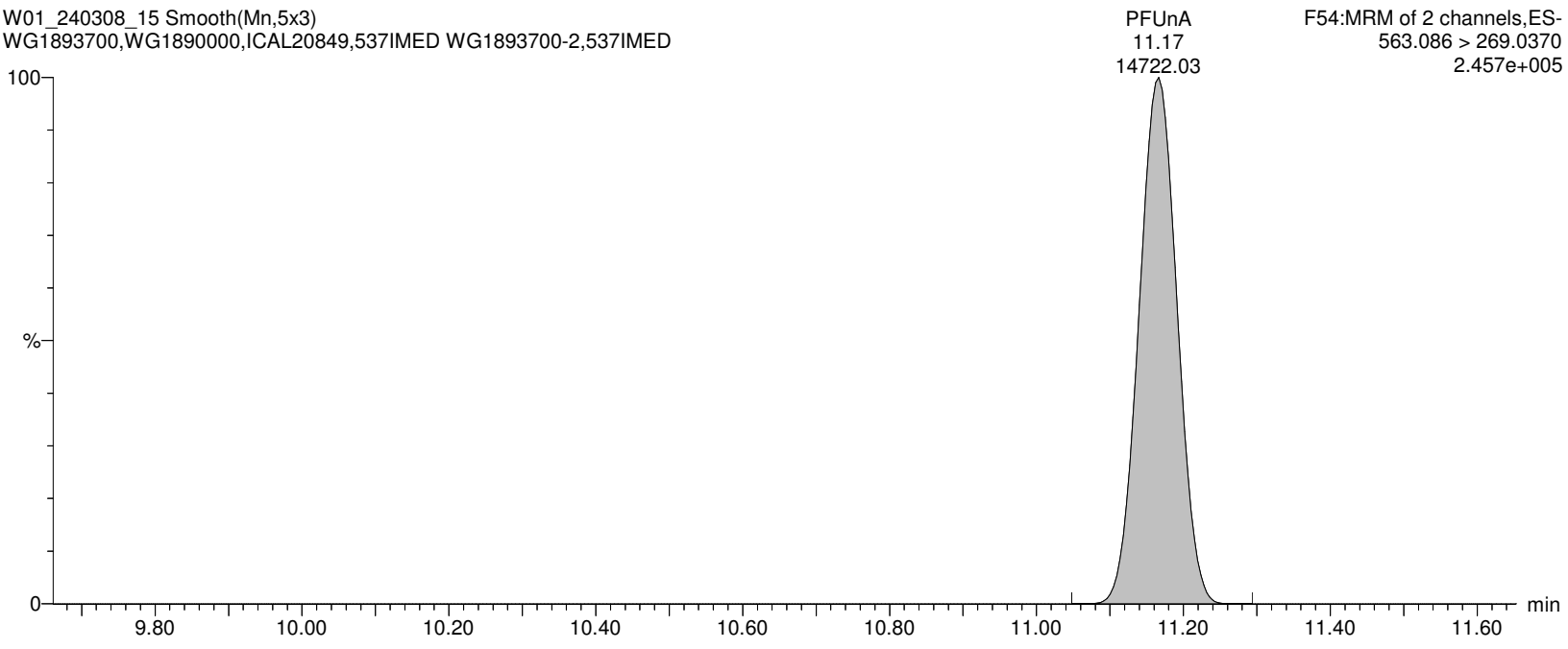

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Date: 08-Mar-2024
Time: 08:55:30
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Vial: 1:A,3
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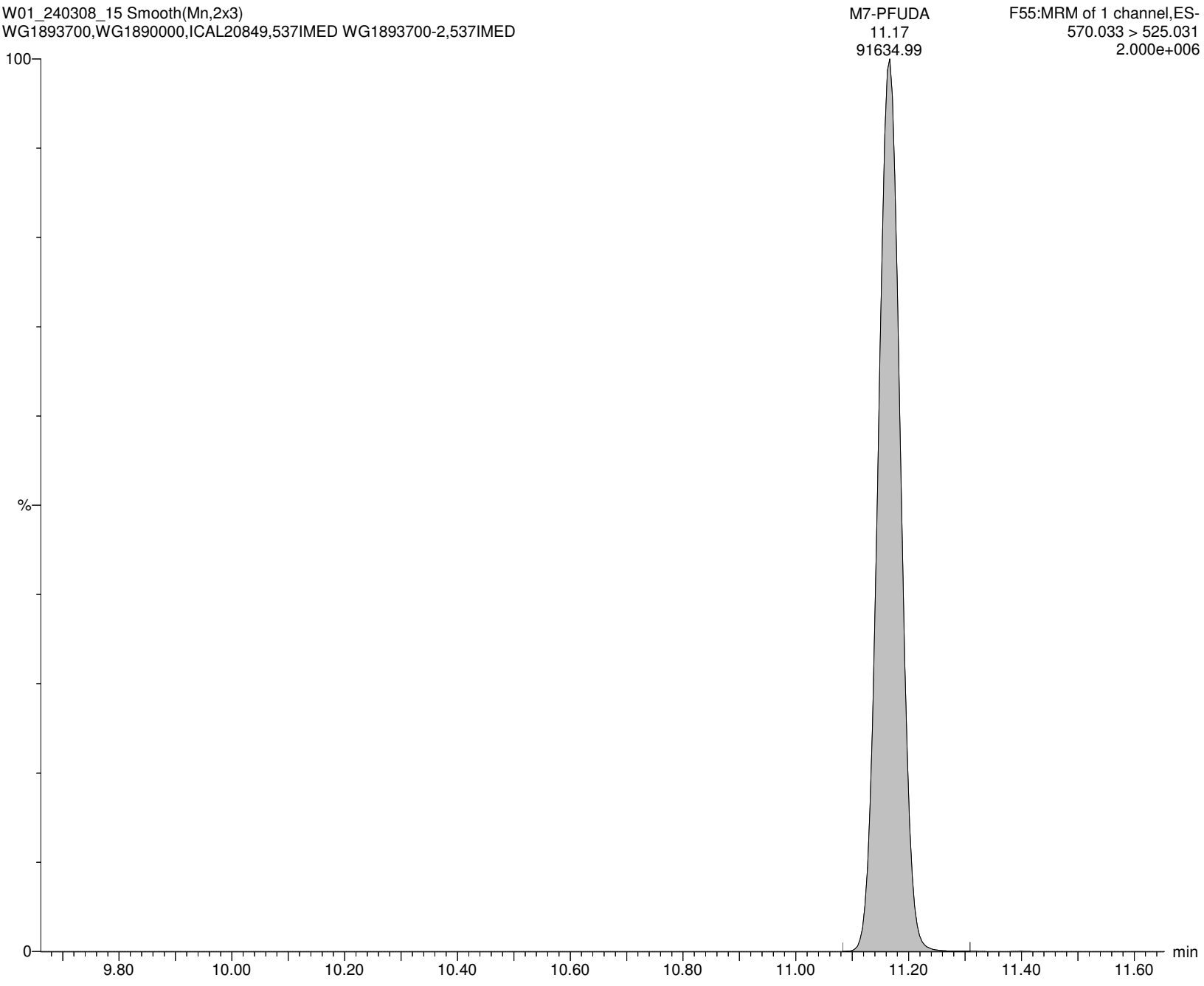

all concentration units in (ng/mL)

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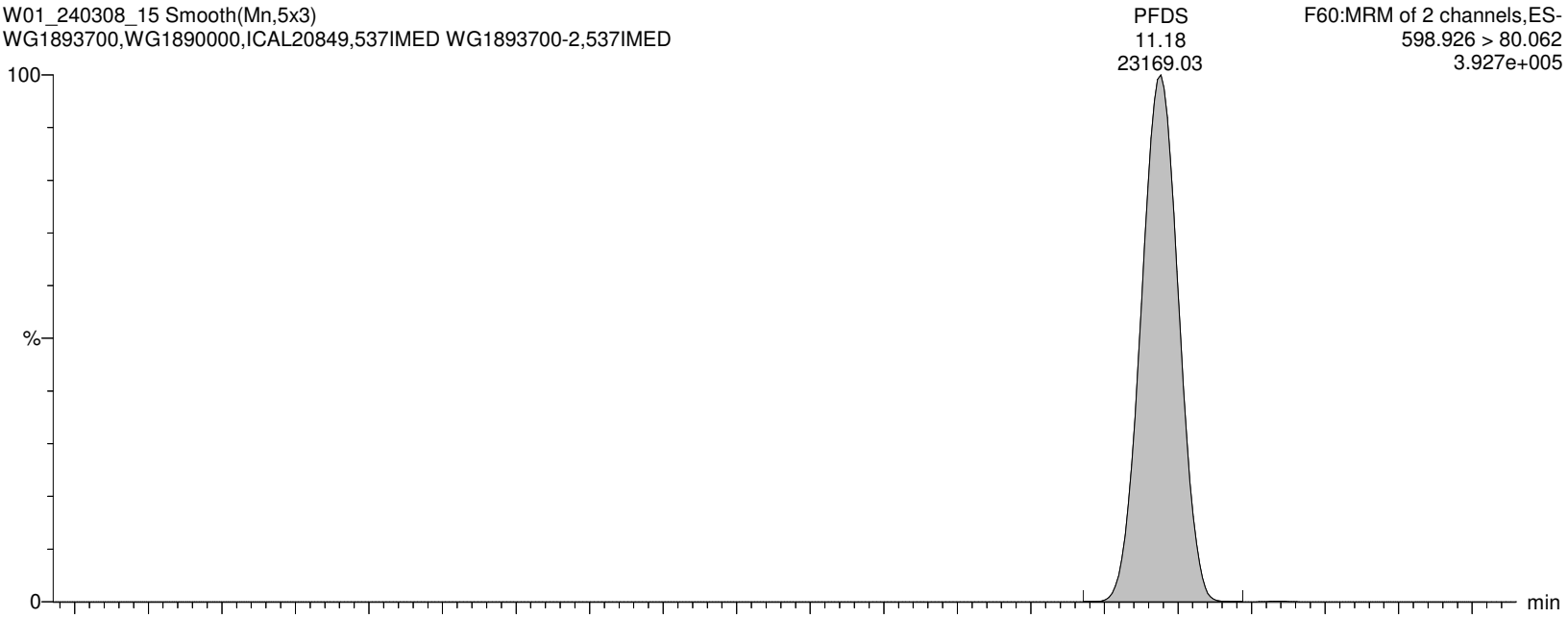

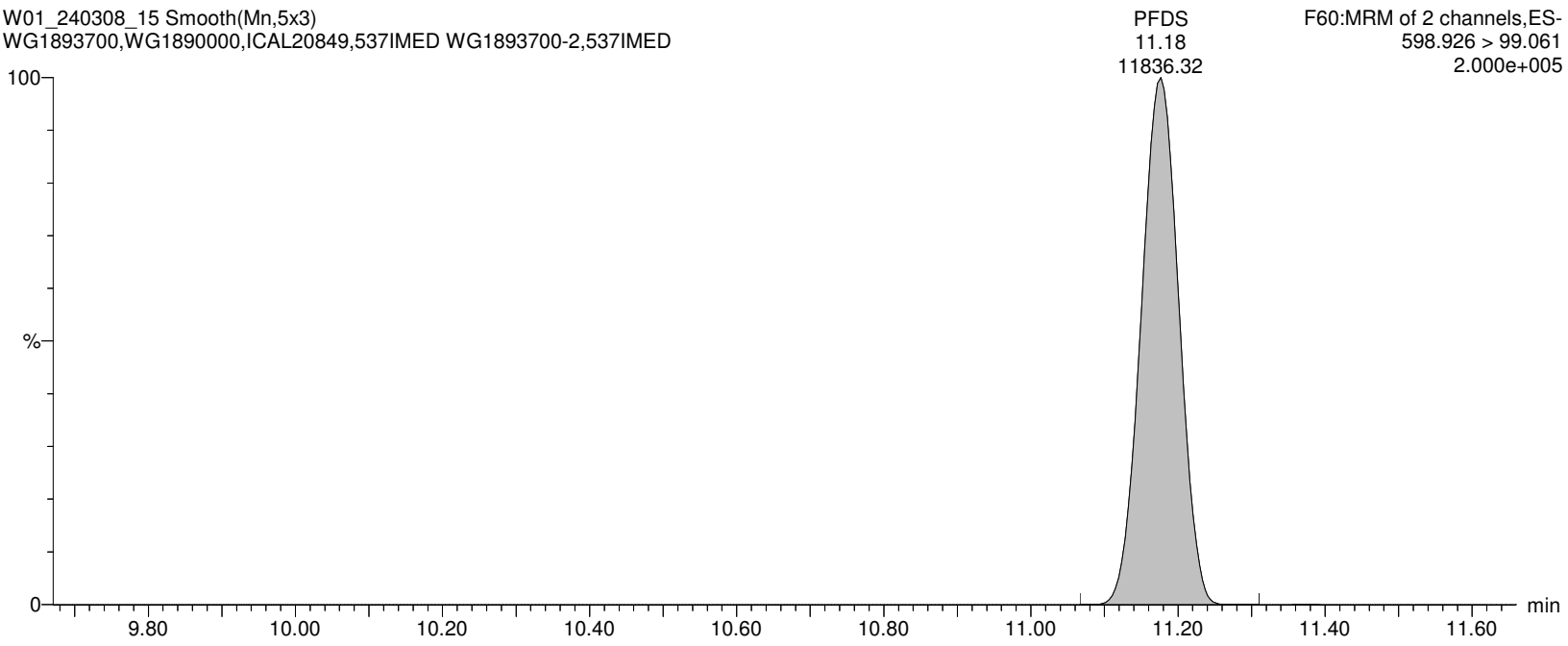

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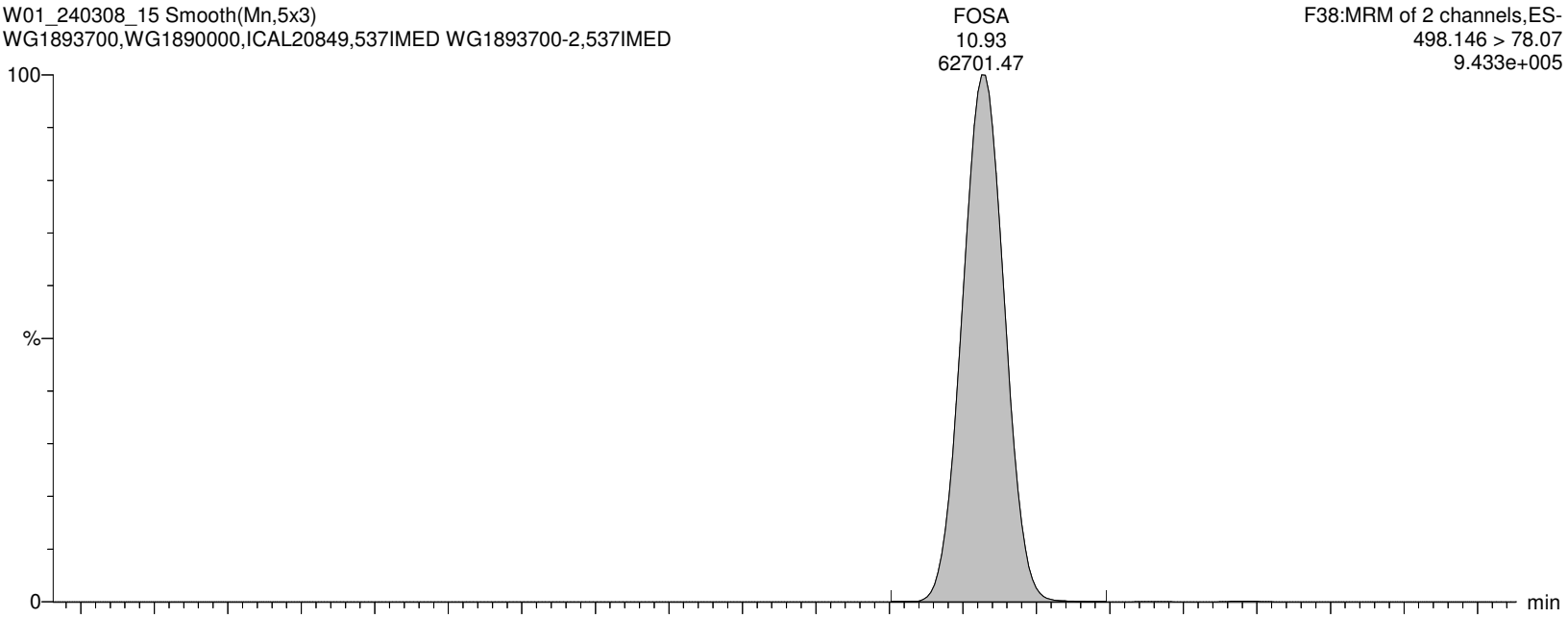

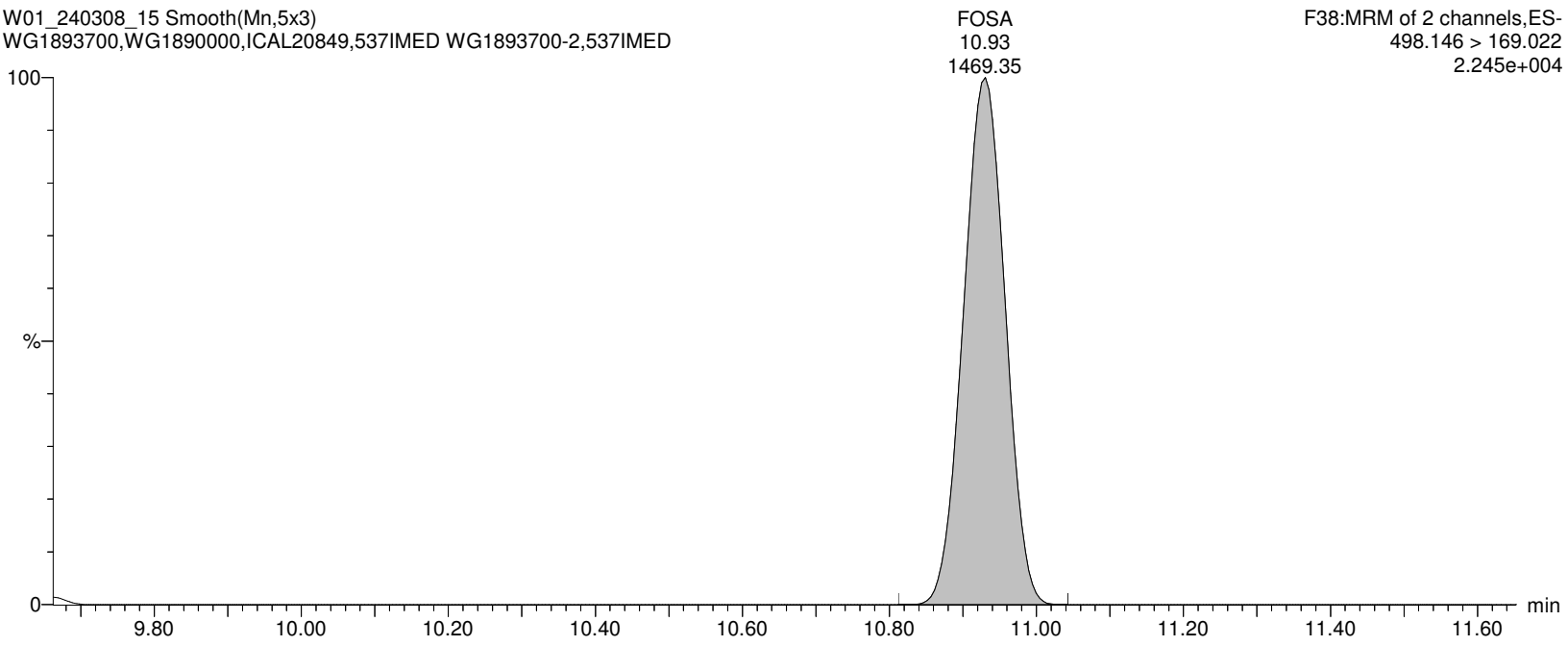

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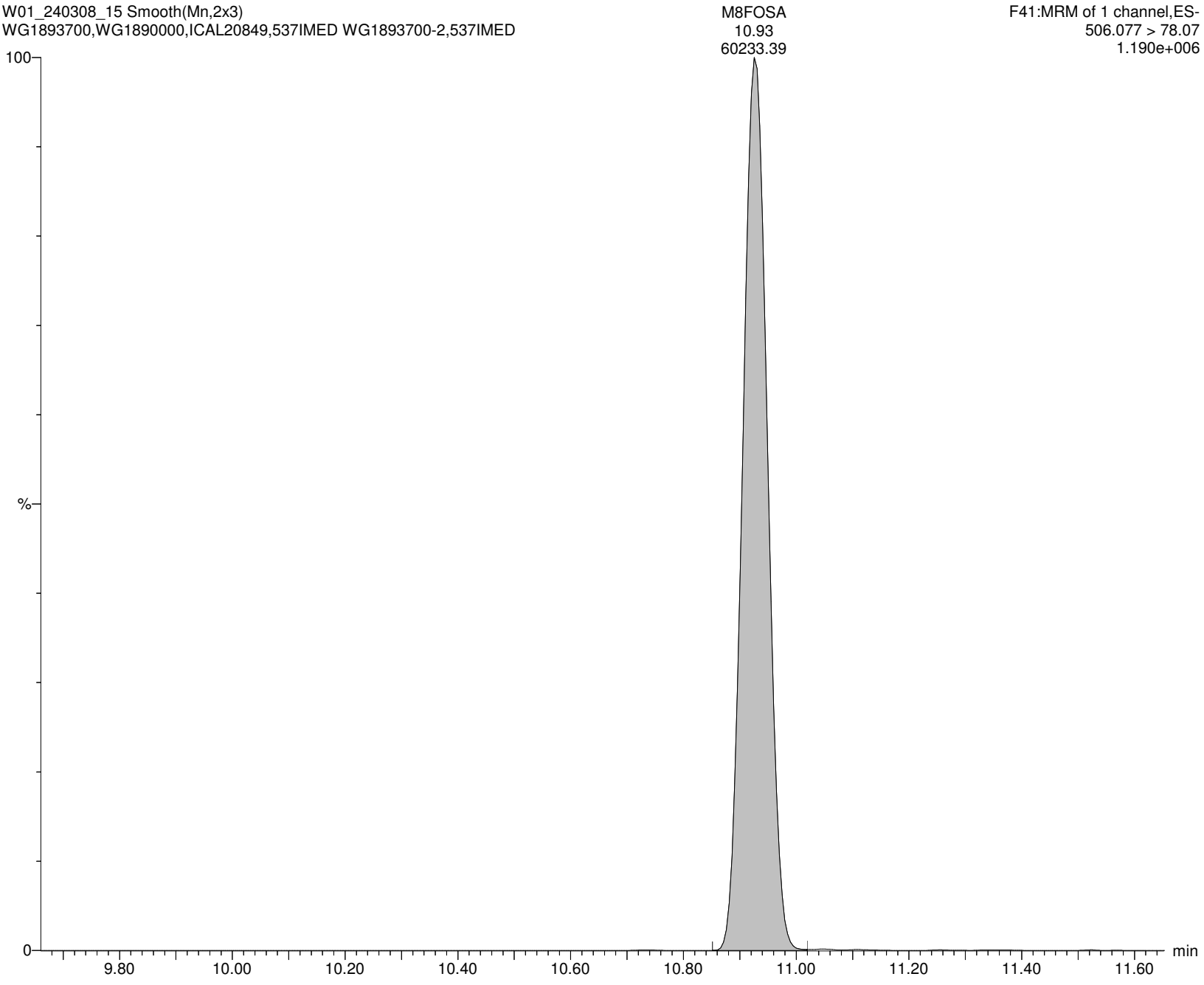

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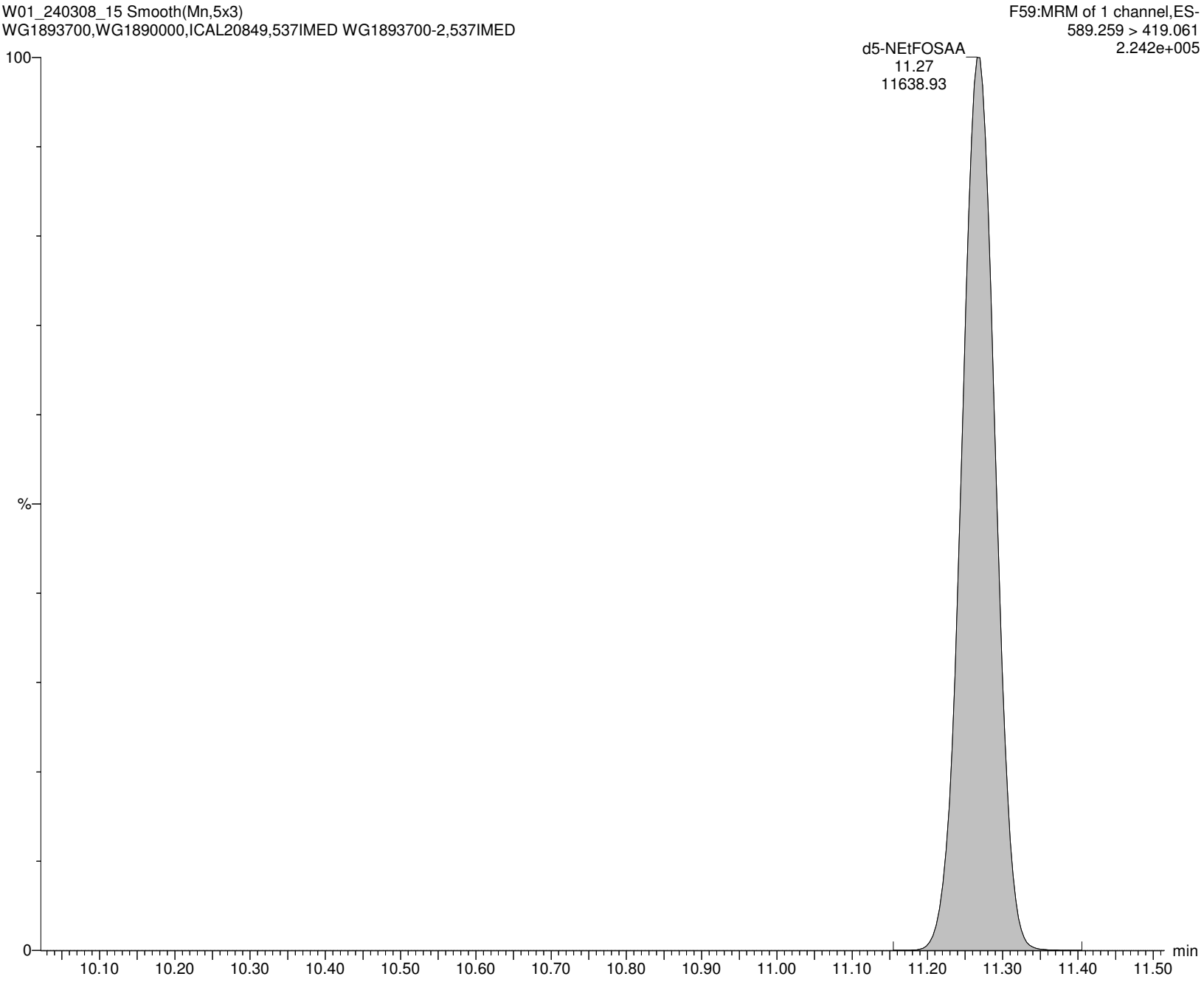

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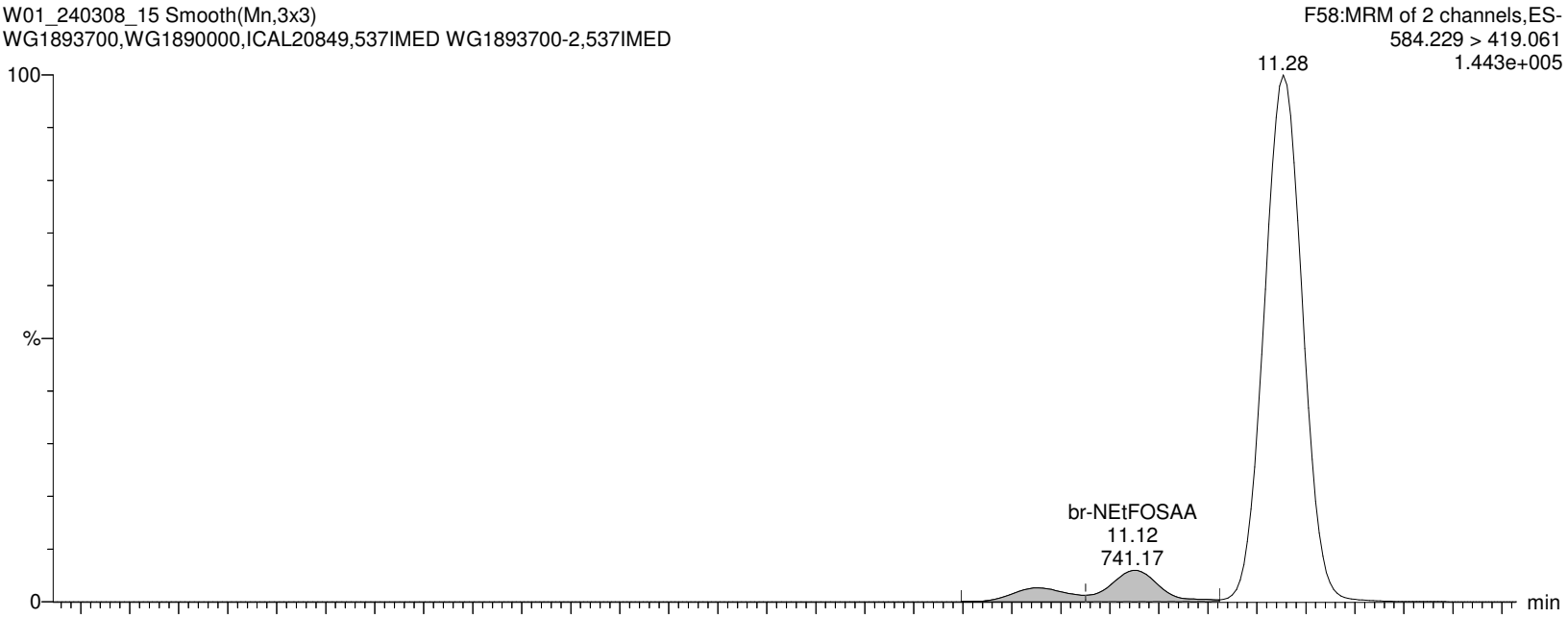

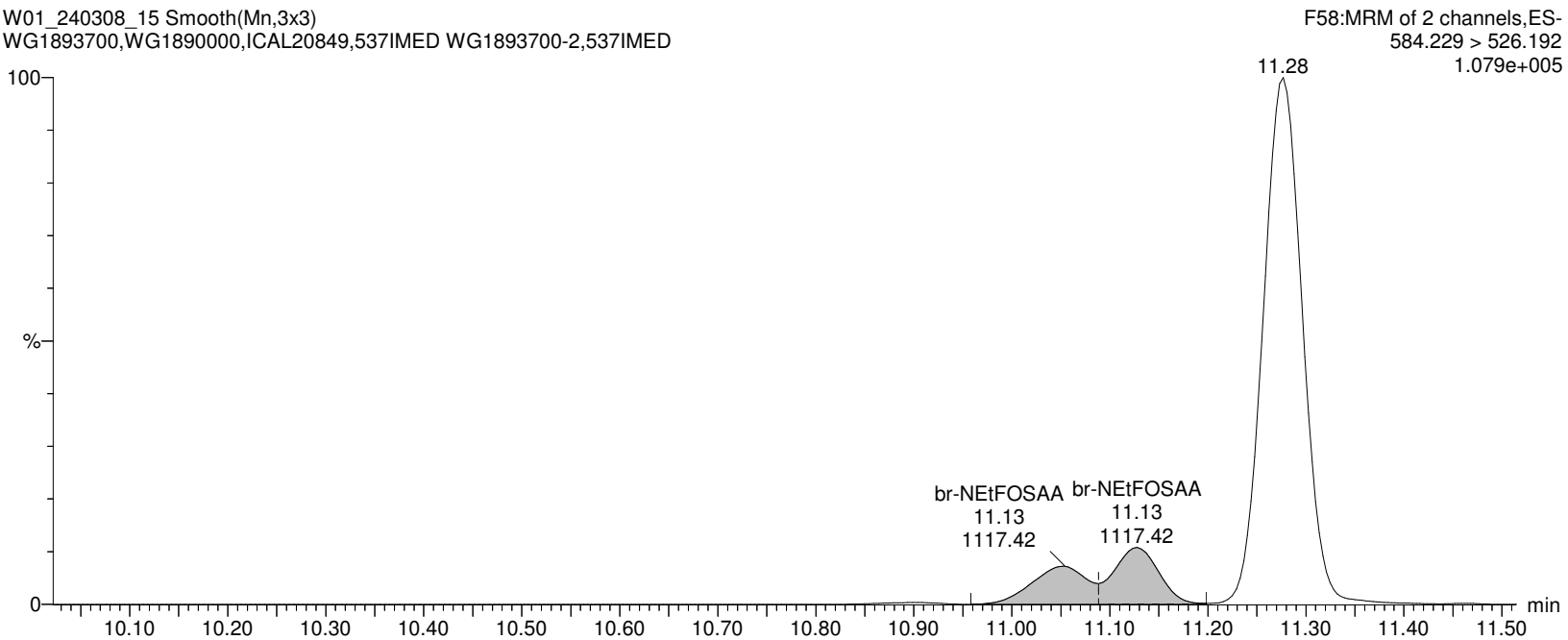

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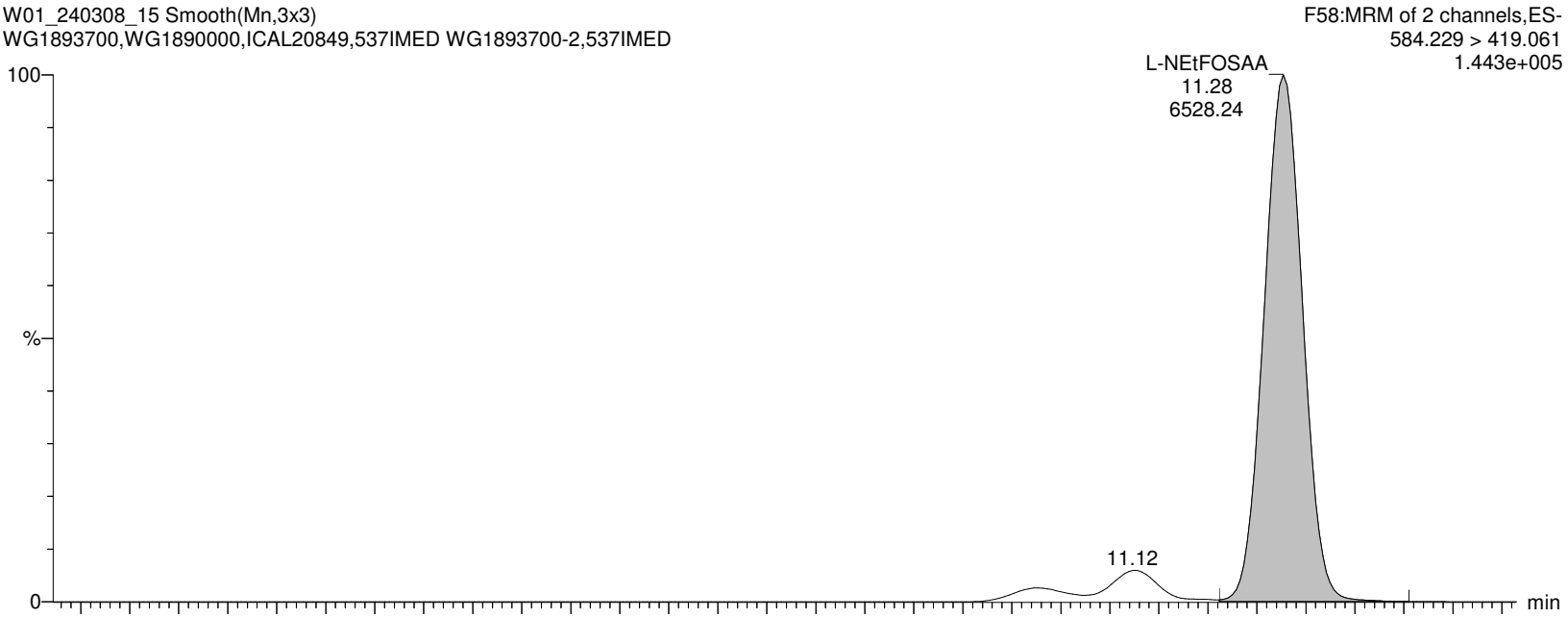

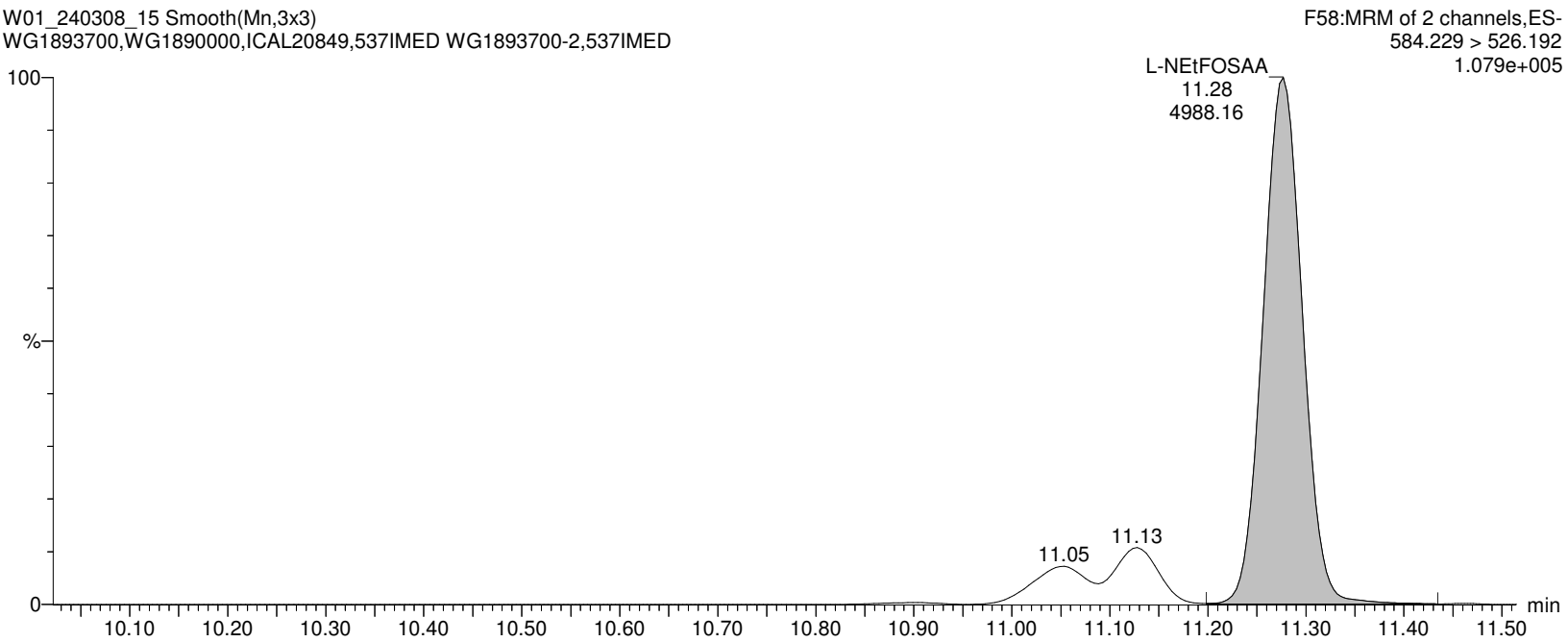

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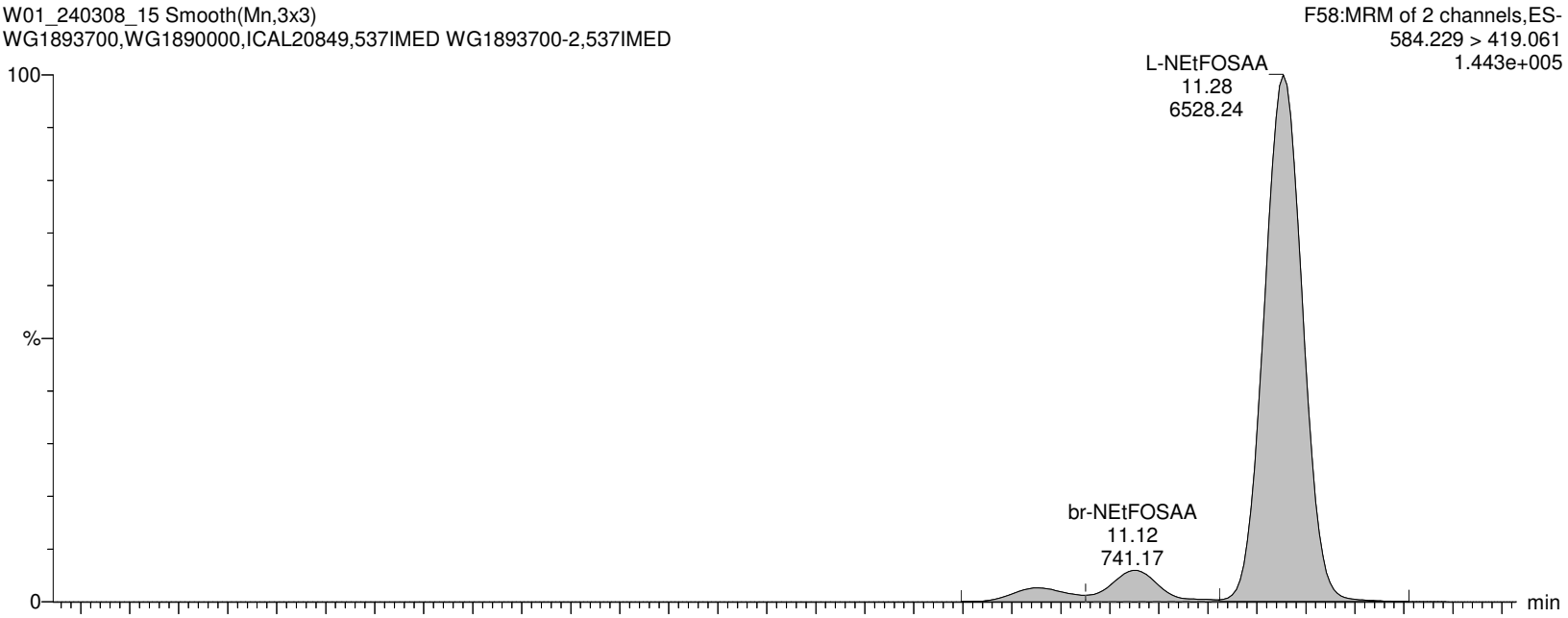

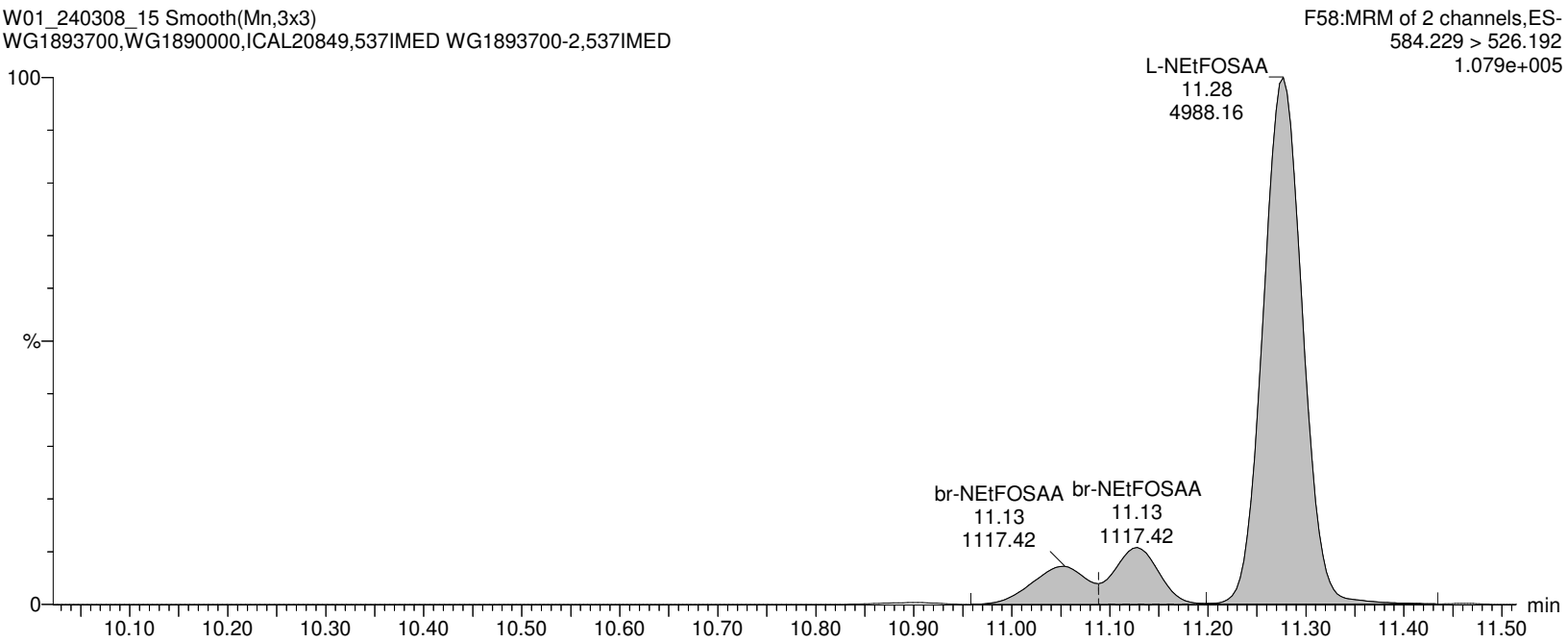

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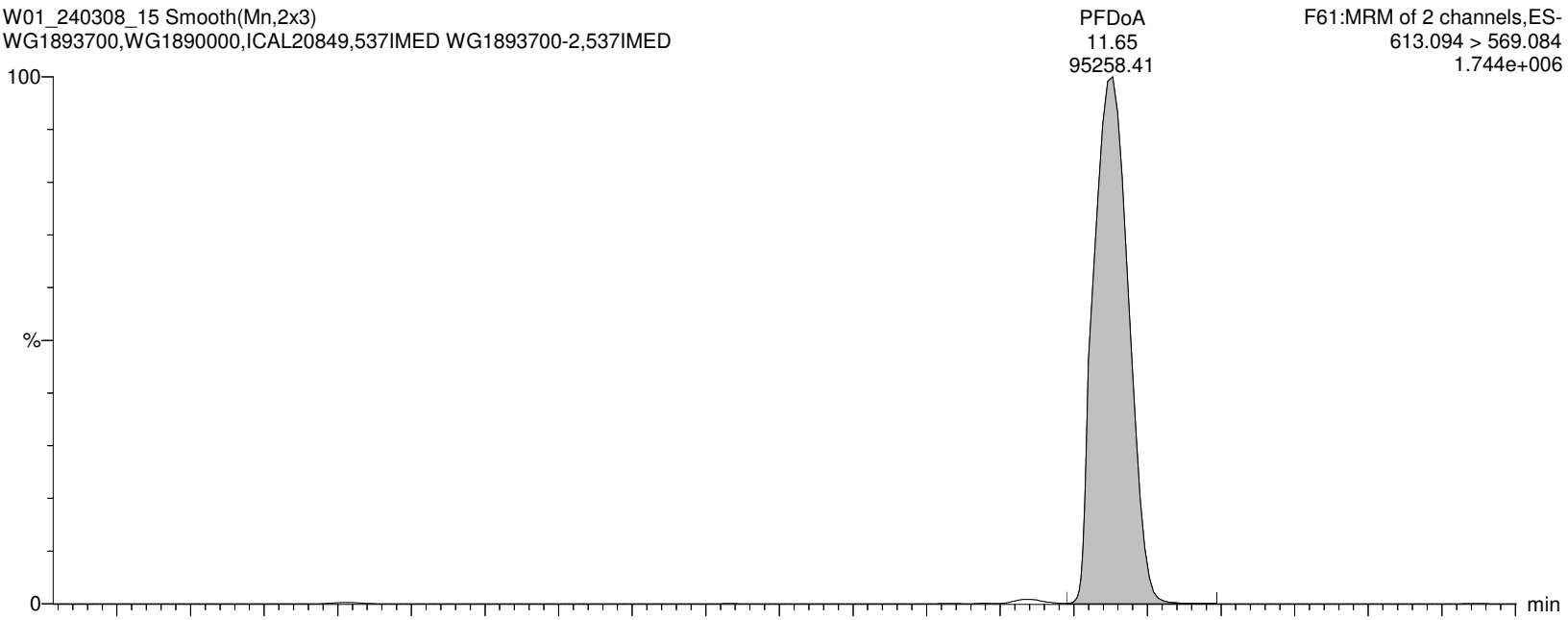

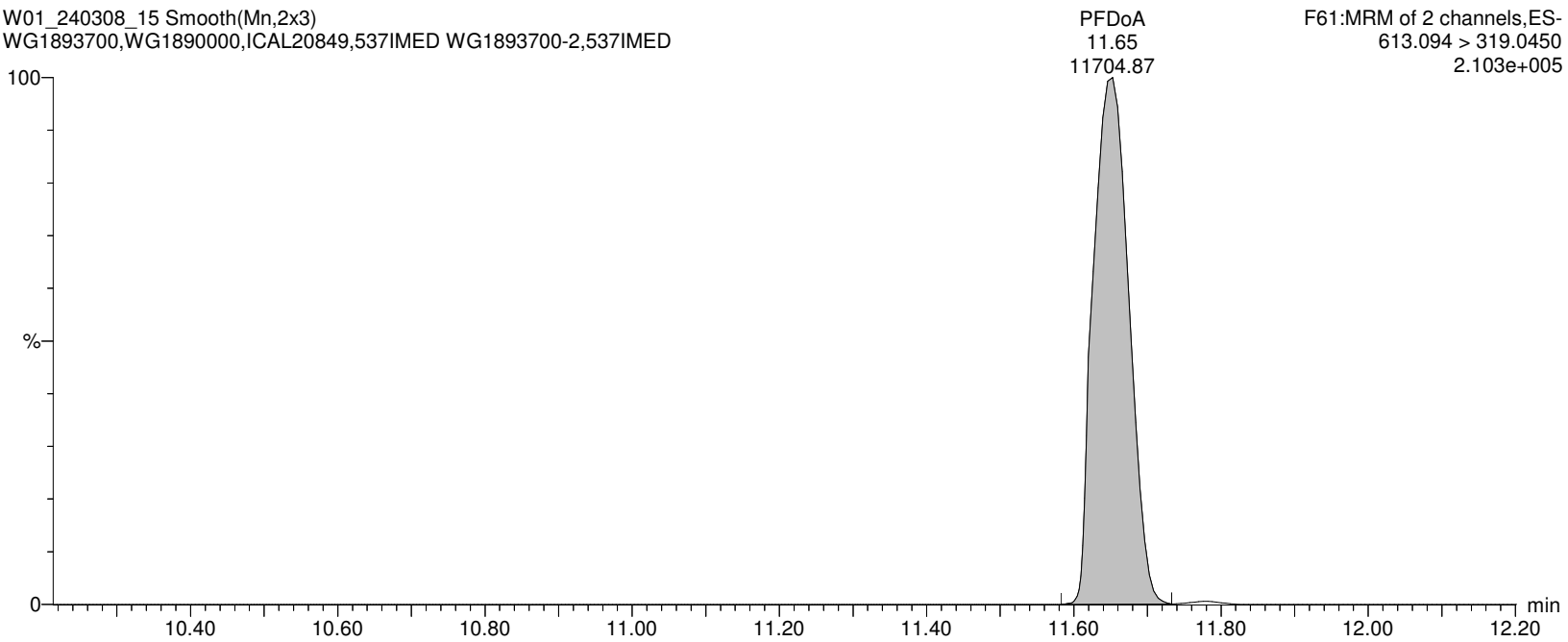

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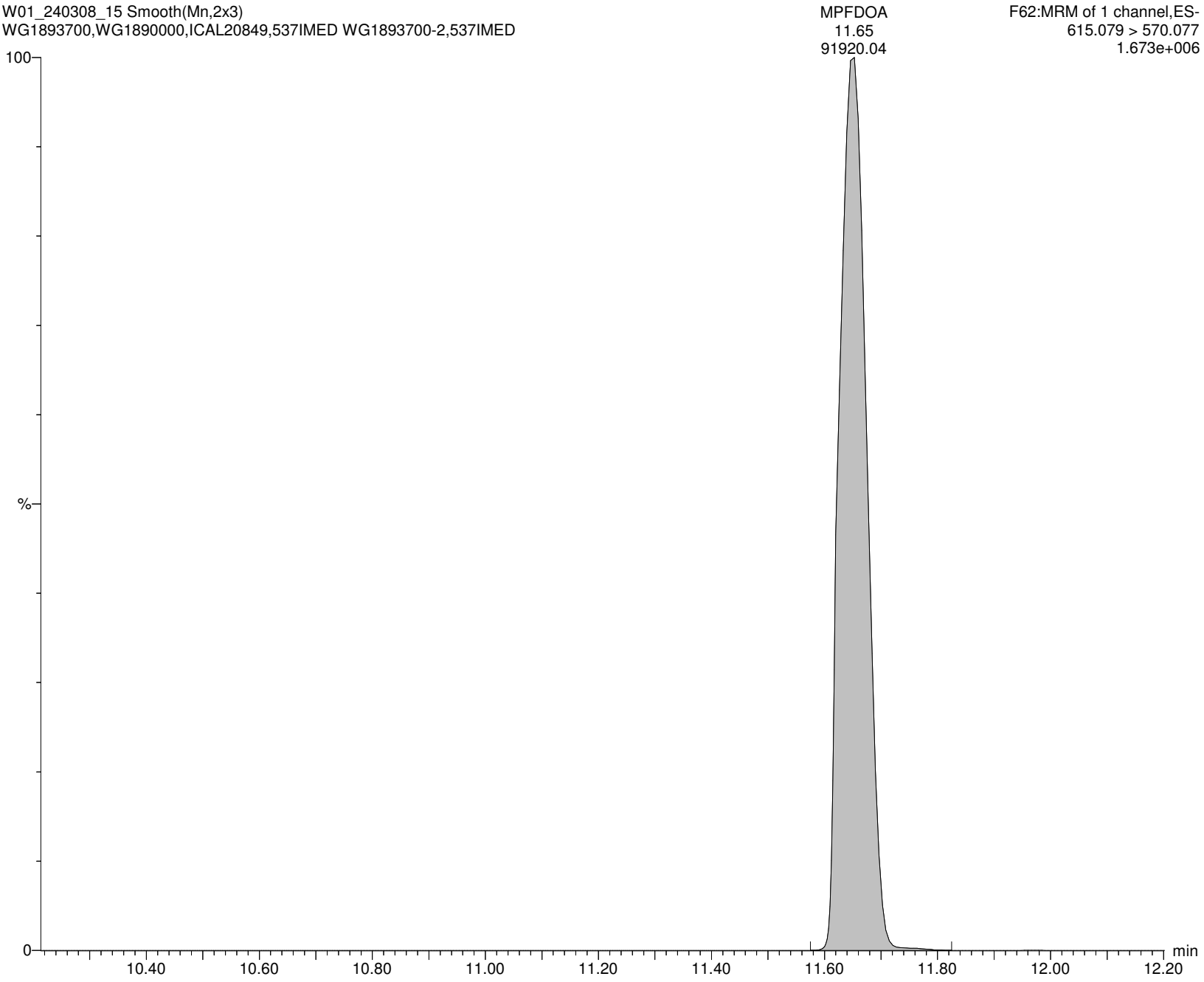

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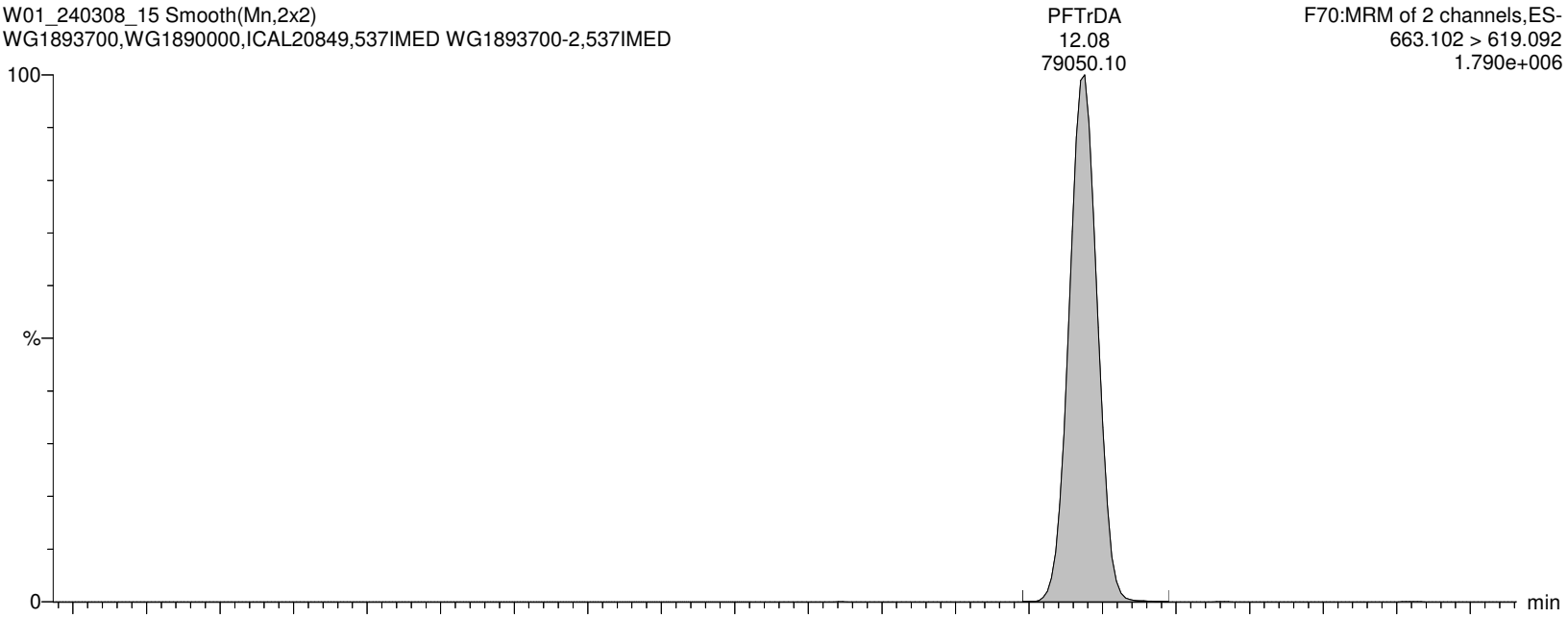

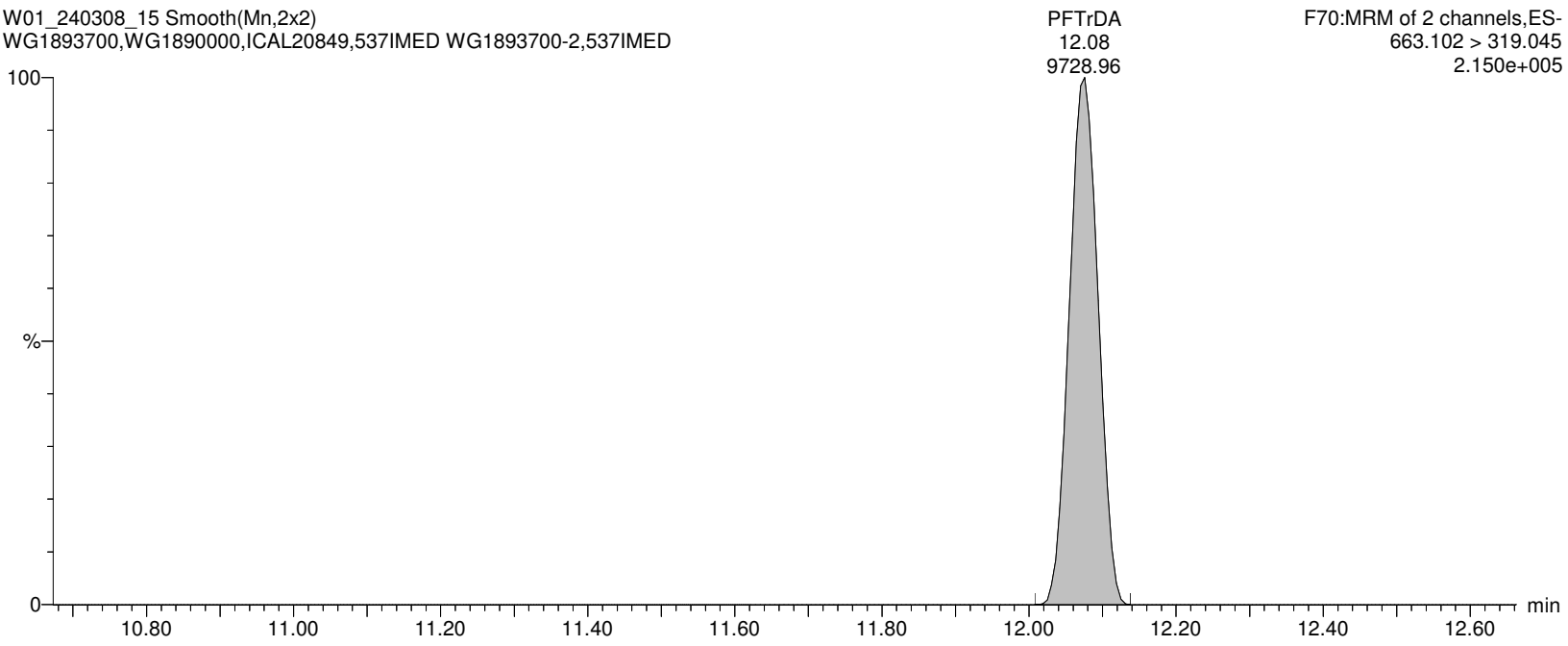

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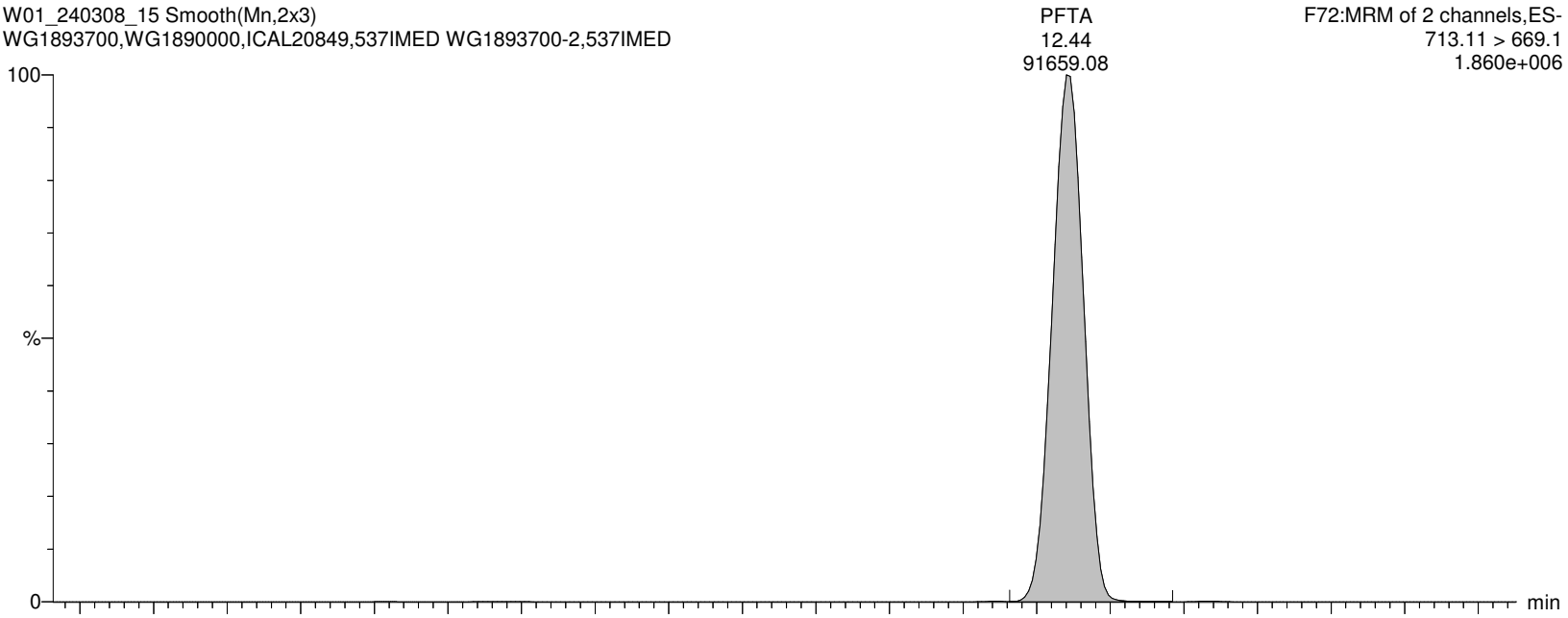

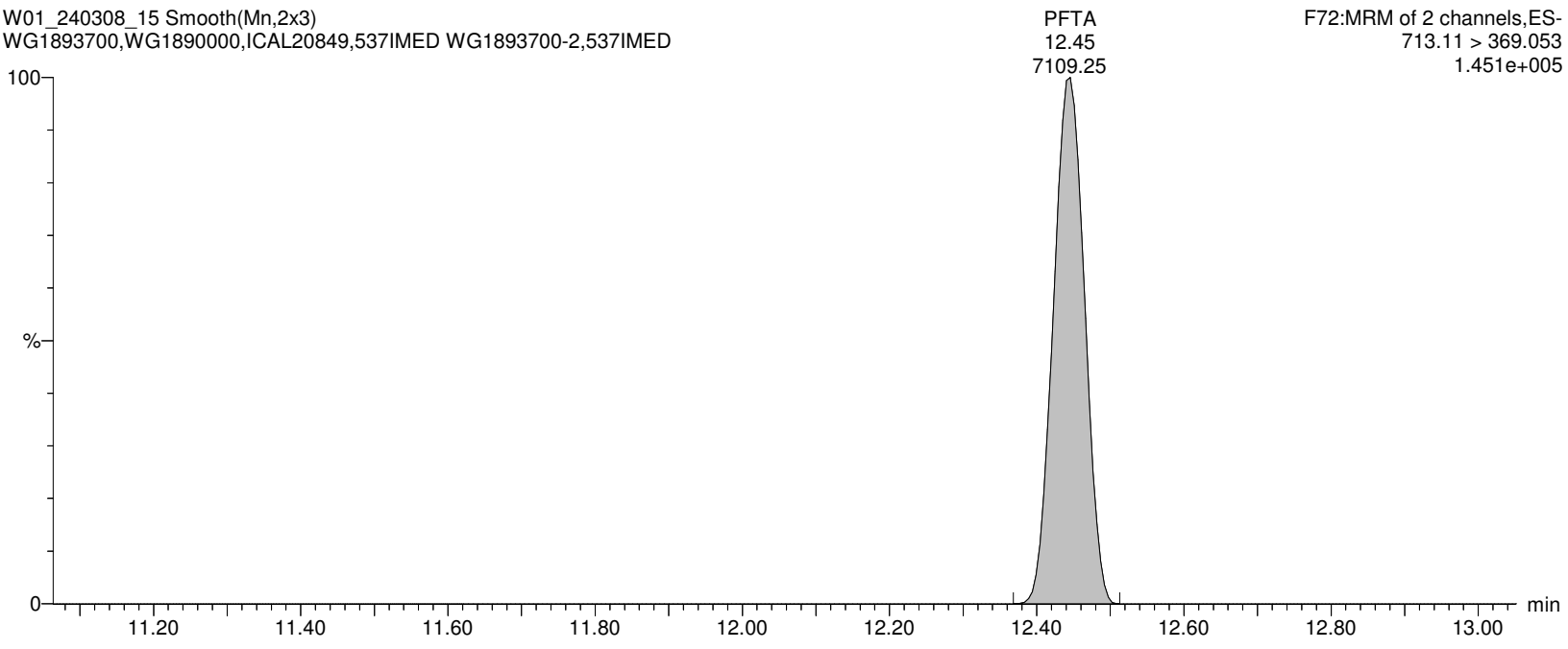

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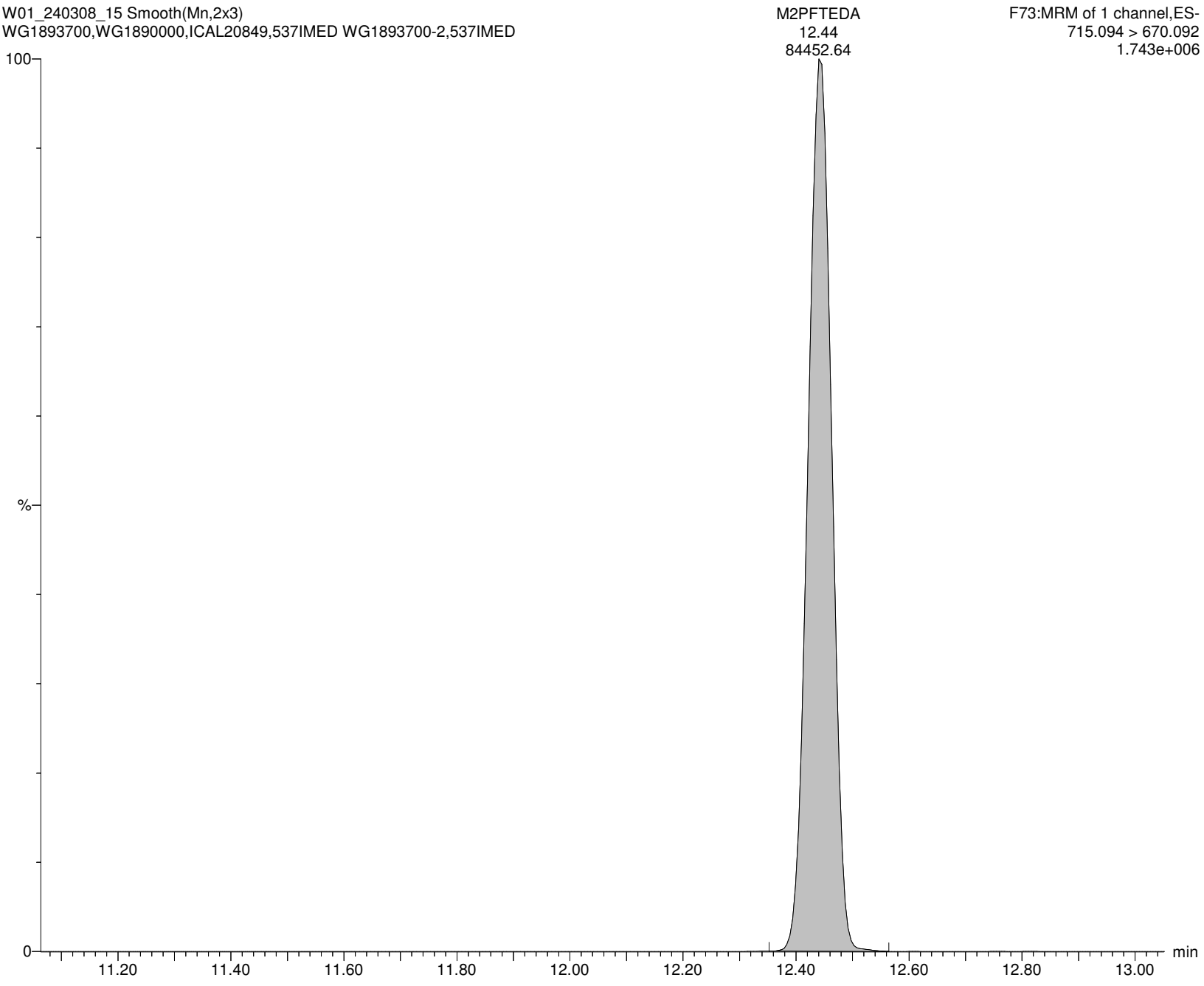

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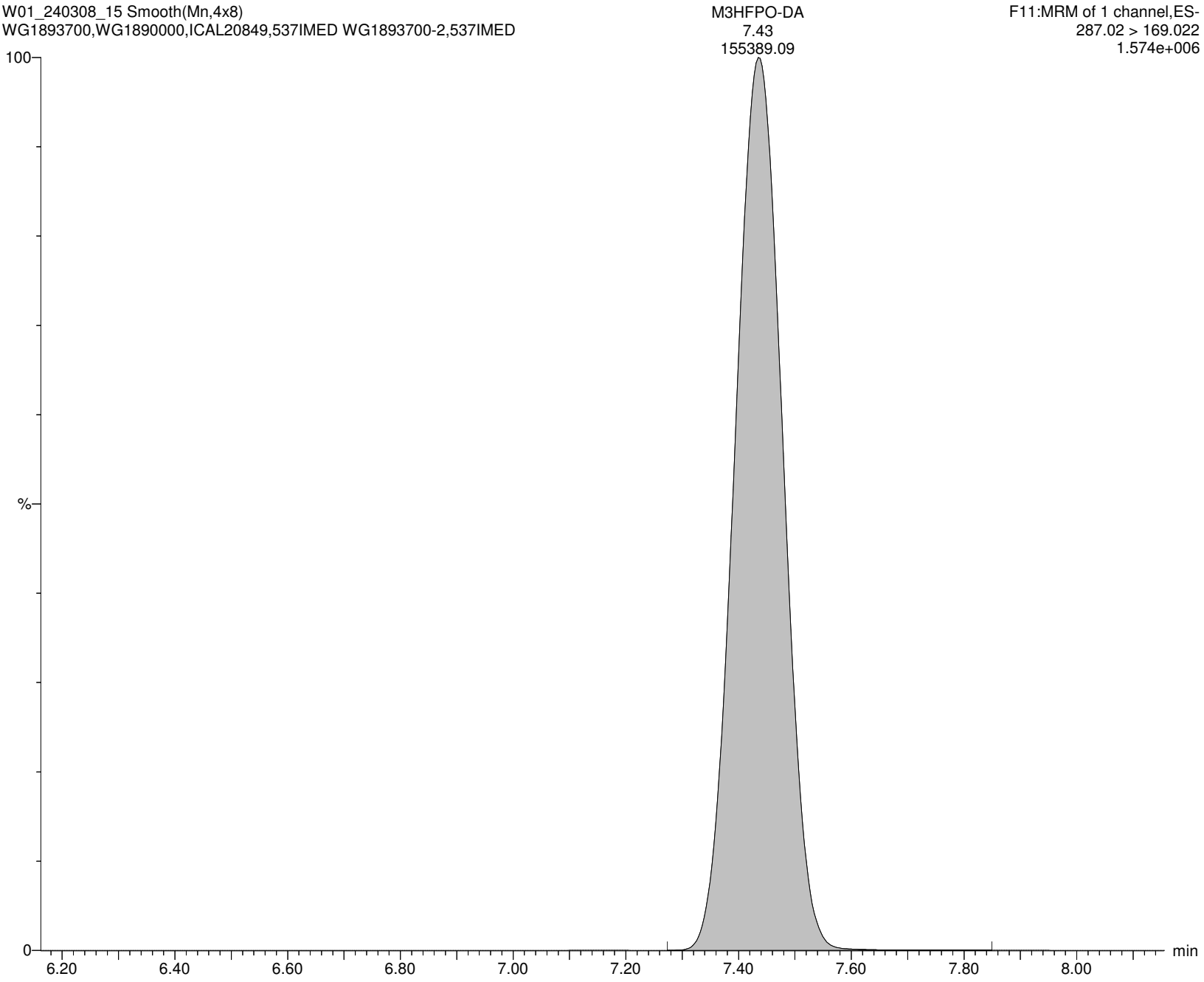

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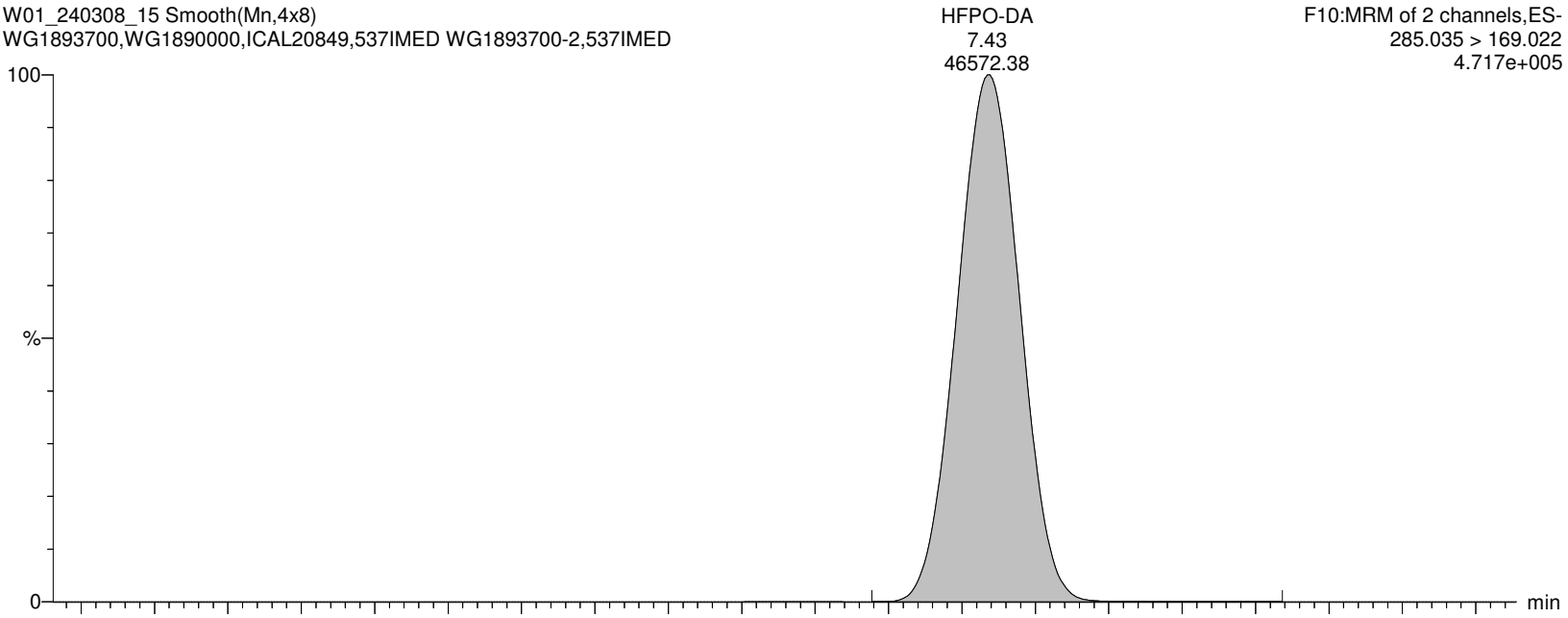
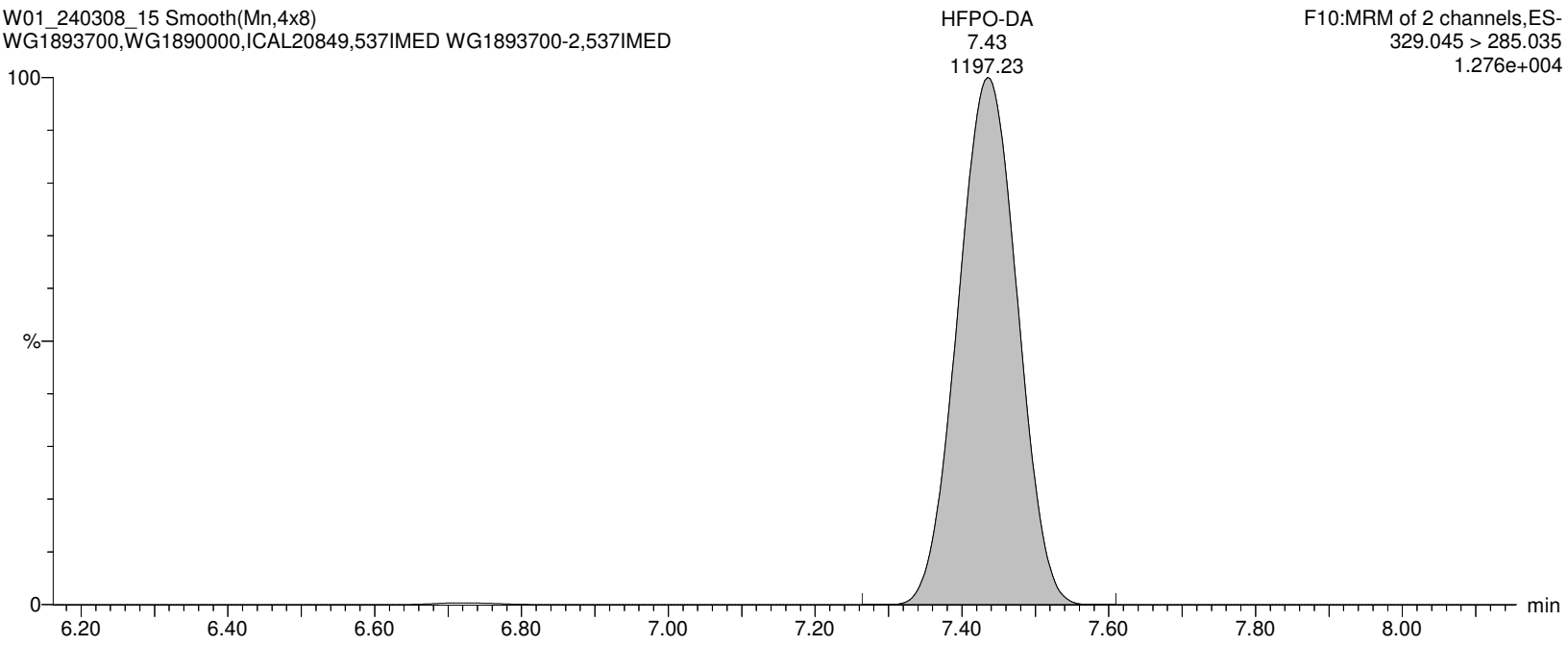
HFPO-DA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
Printed: Friday, March 08, 2024 14:42:06 Eastern Standard Time

Name: W01_240308_15
ID: WG1893700-2,537IMED
Date: 08-Mar-2024
Time: 08:55:30
Description: WG1893700,WG1890000,ICAL20849,537IMED
User: LCMS01:AC
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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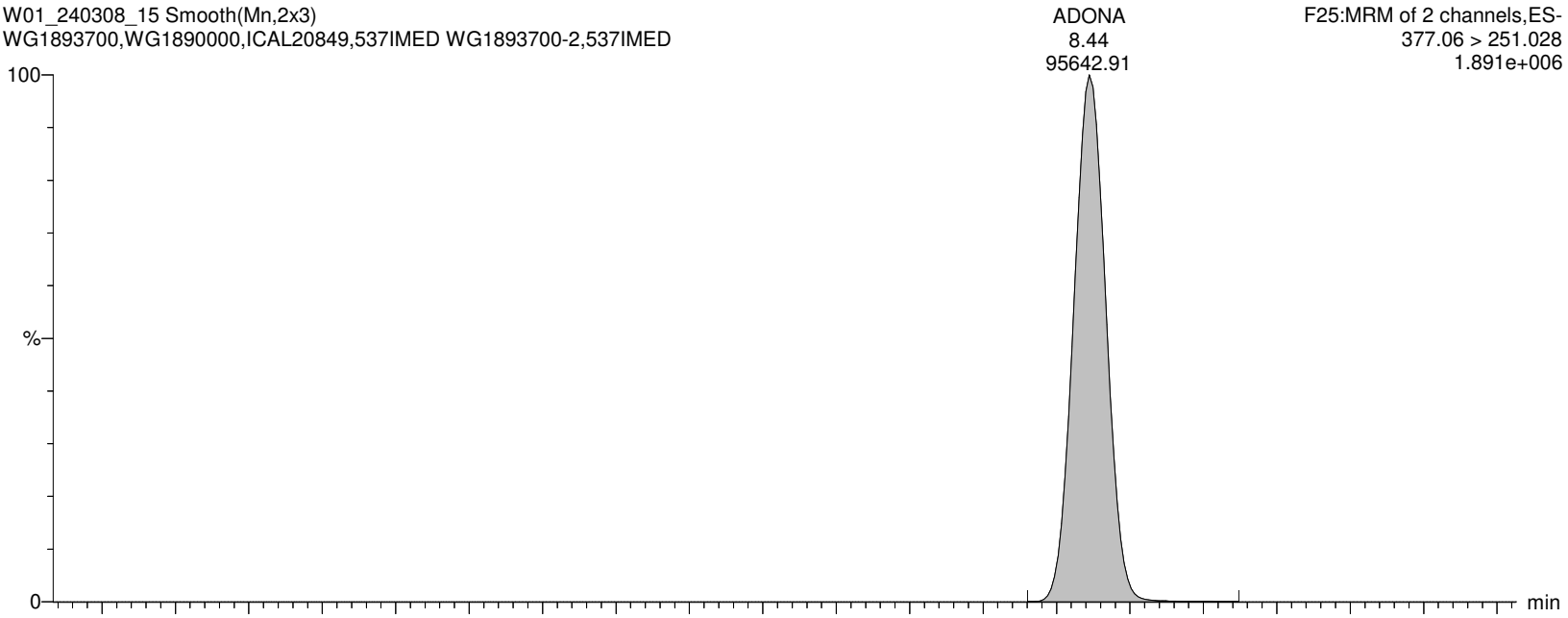
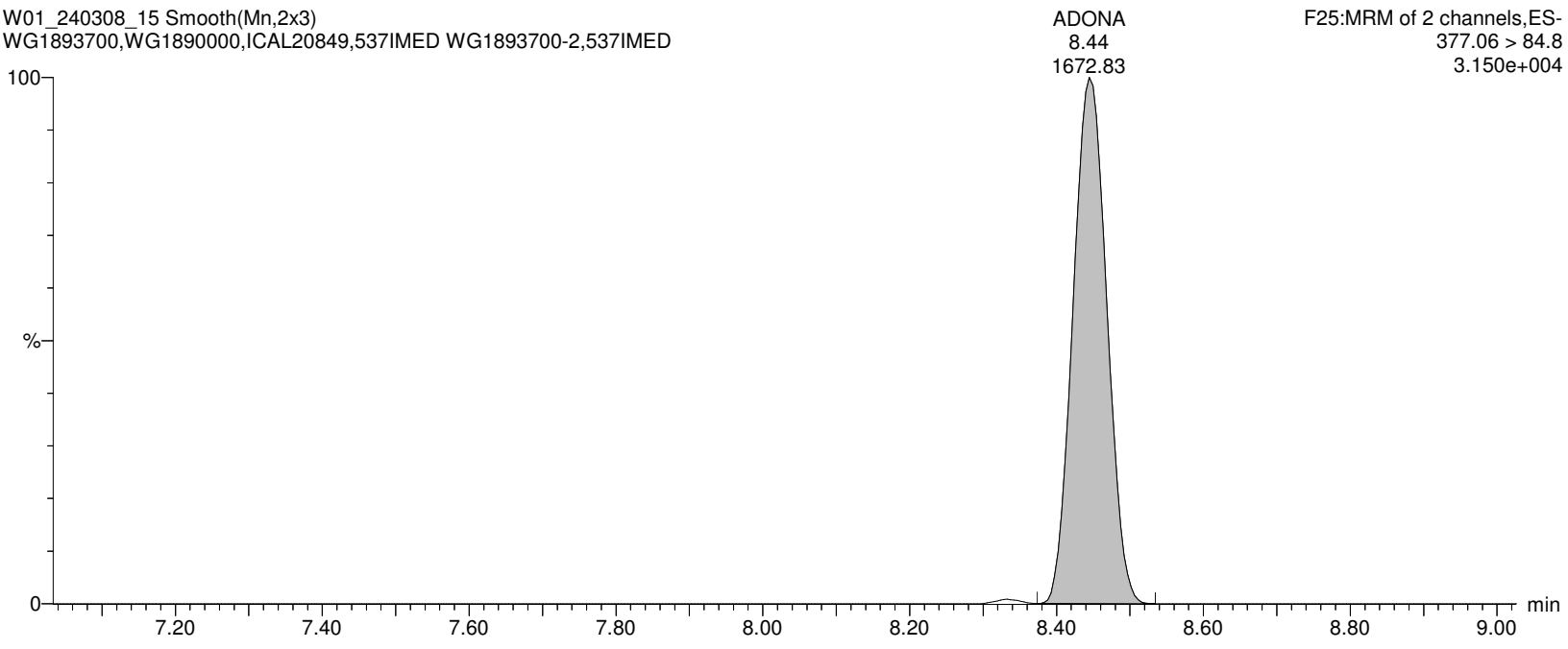
ADONA





all concentration units in (ng/mL)

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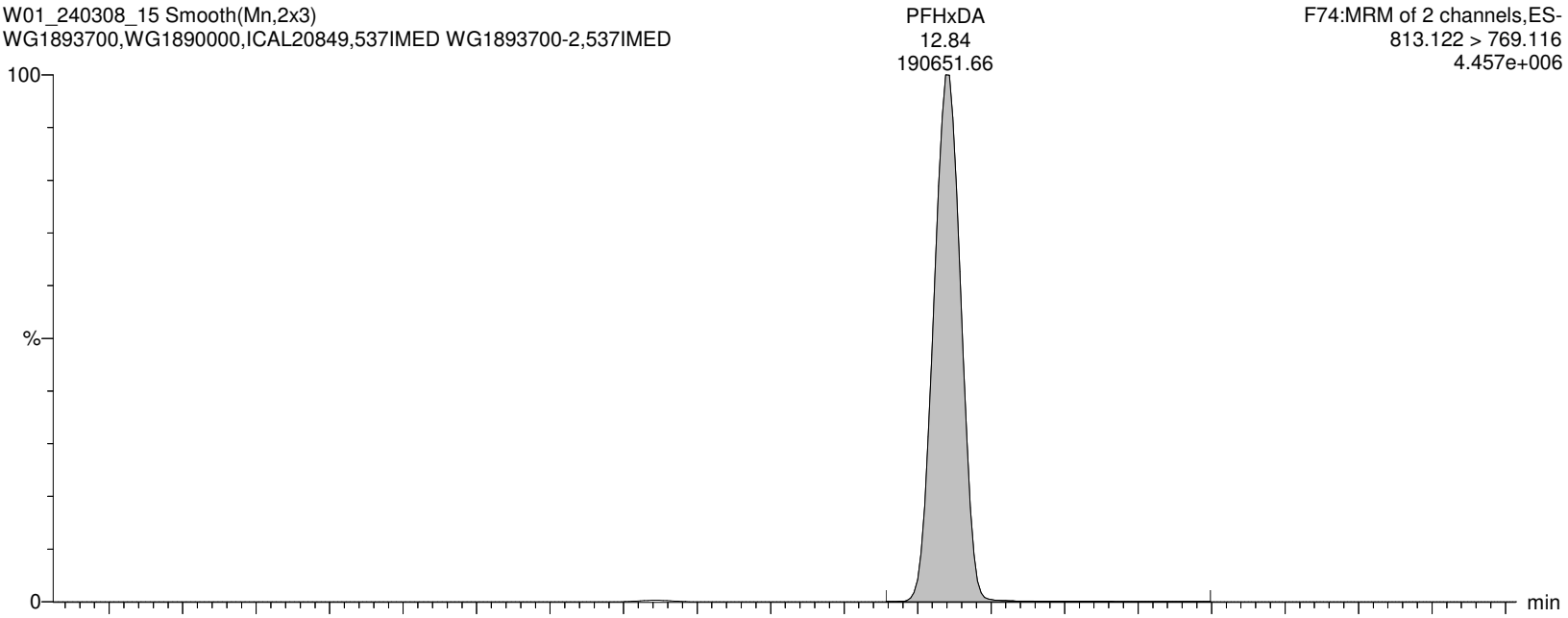

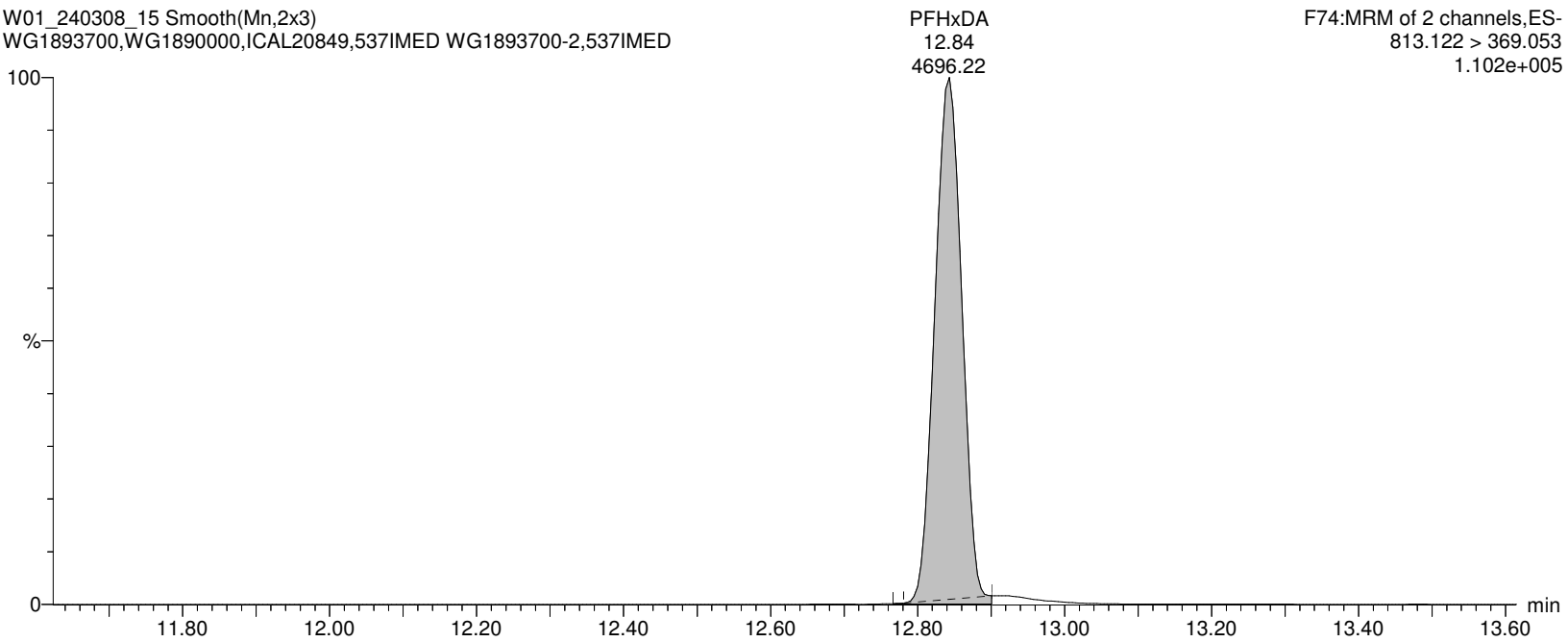

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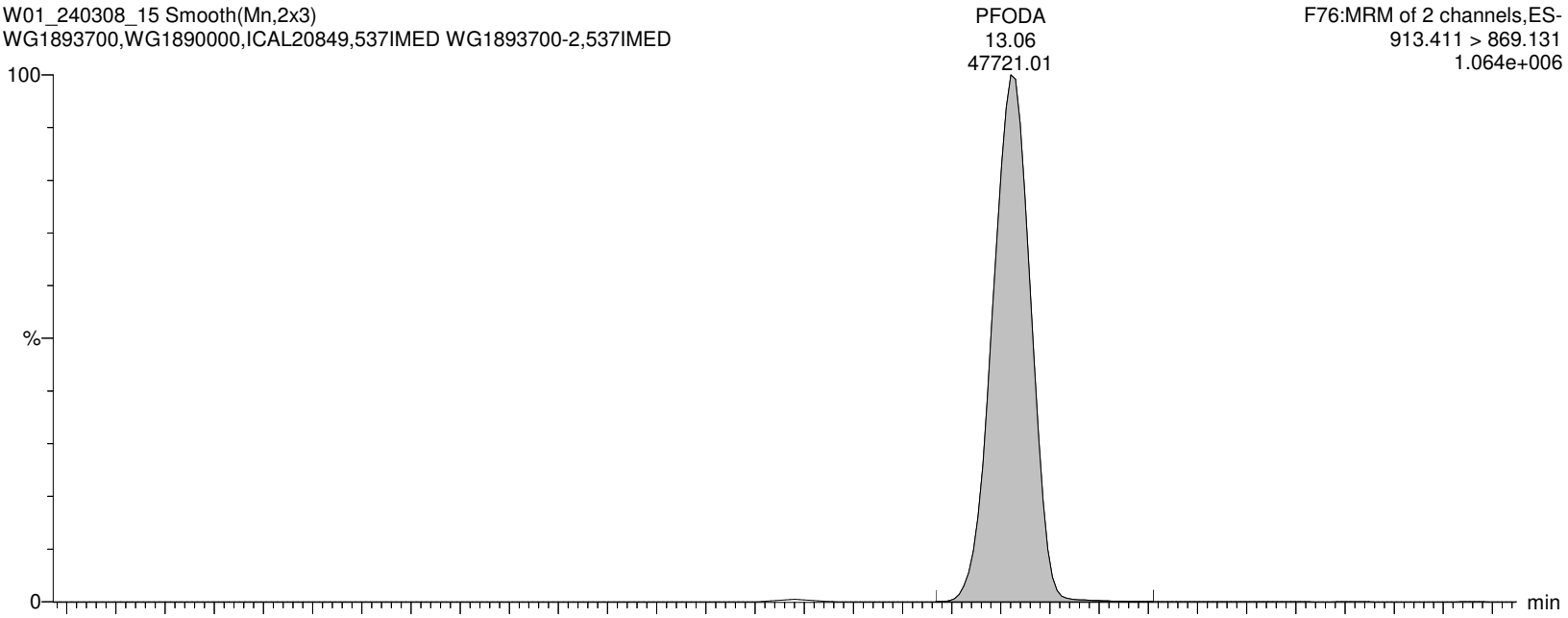

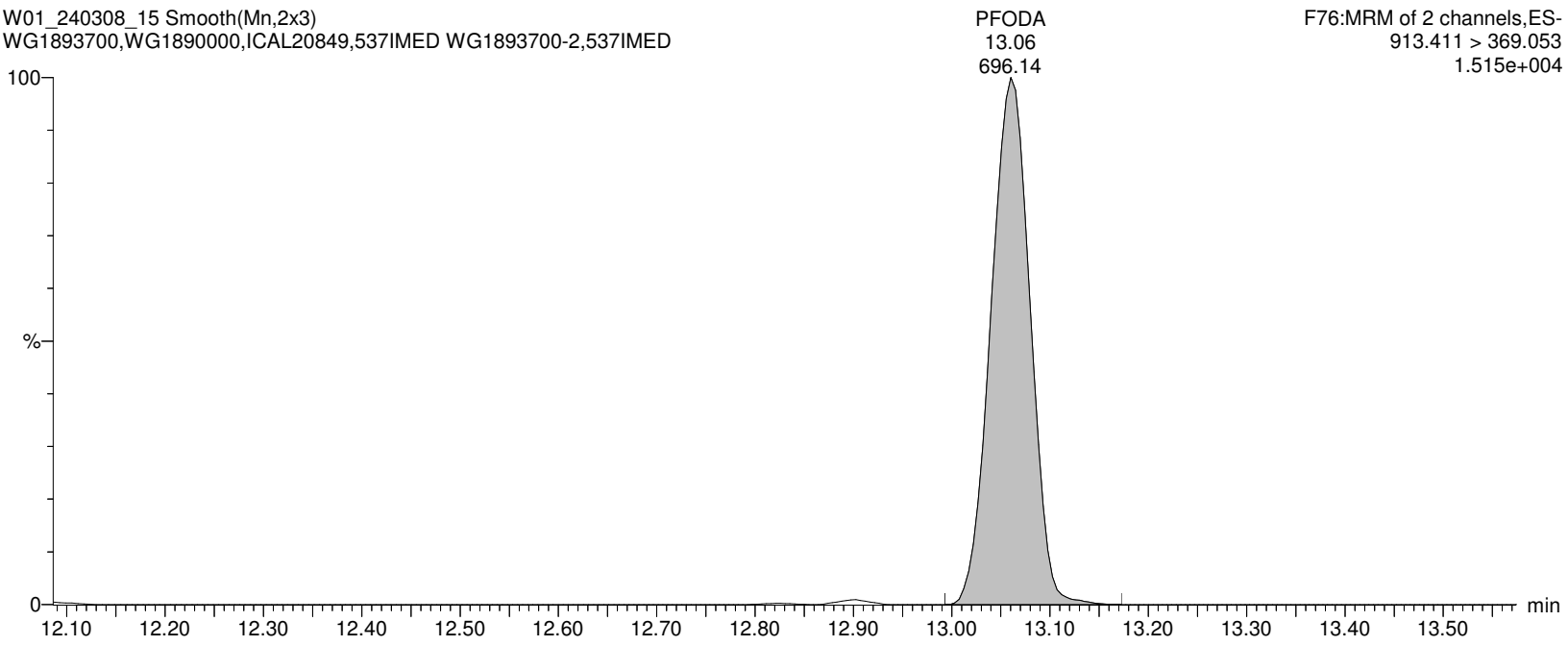

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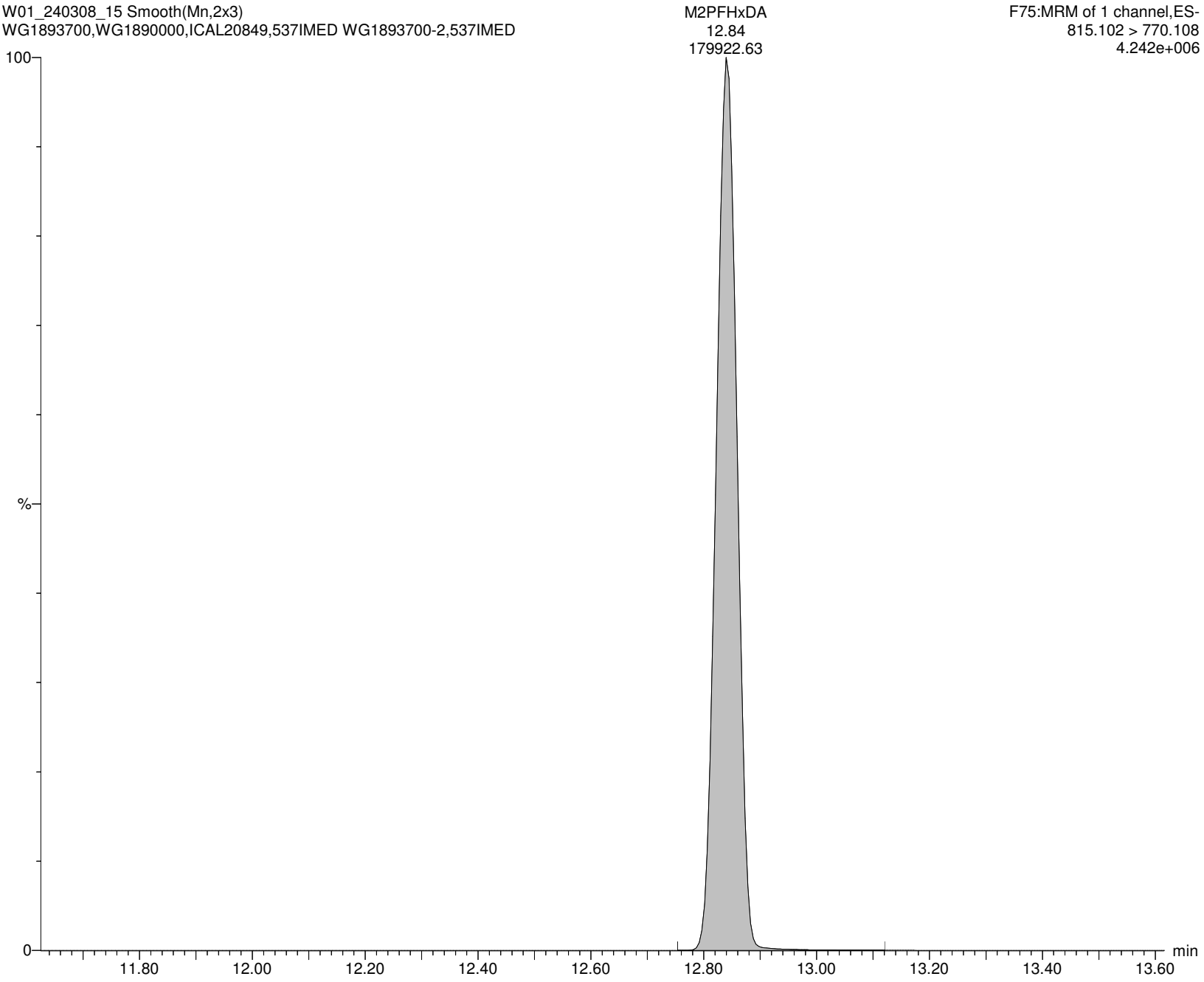
M2PFHxDA



all concentration units in (ng/mL)

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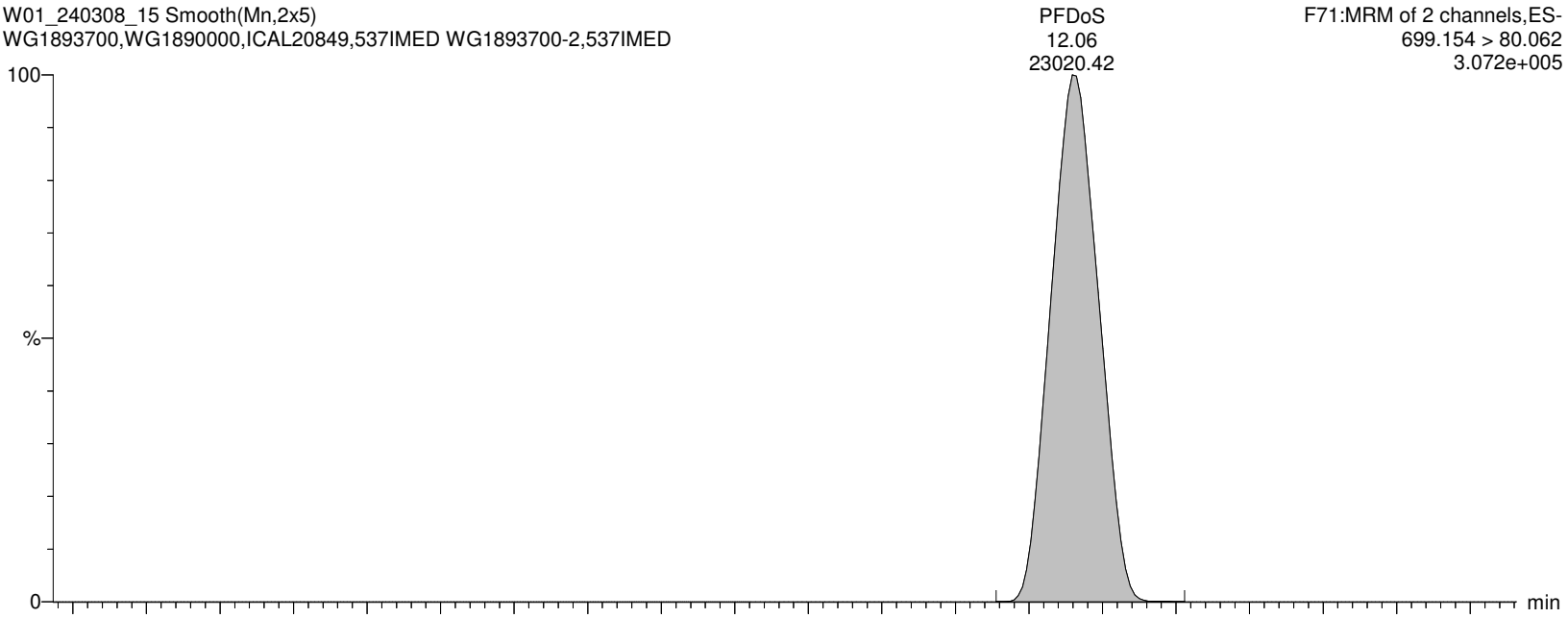
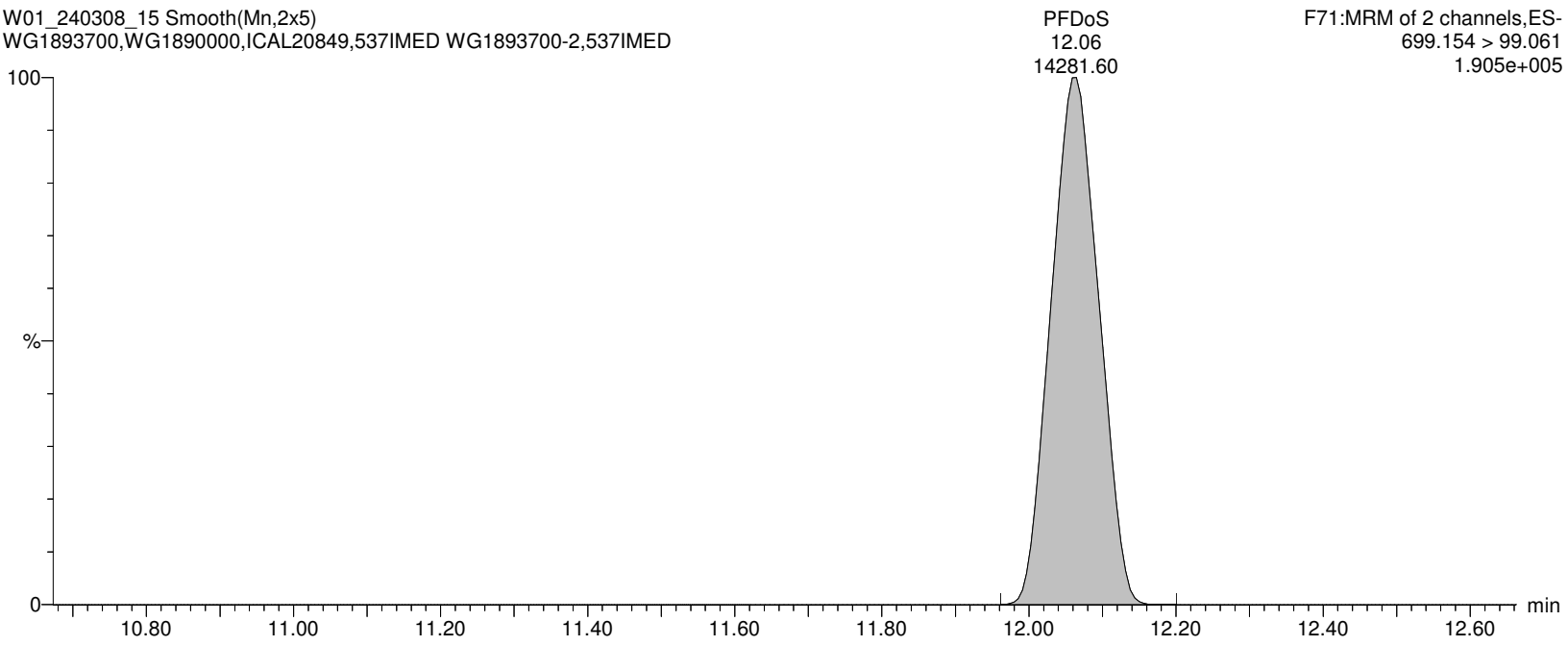
PFDoS





all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

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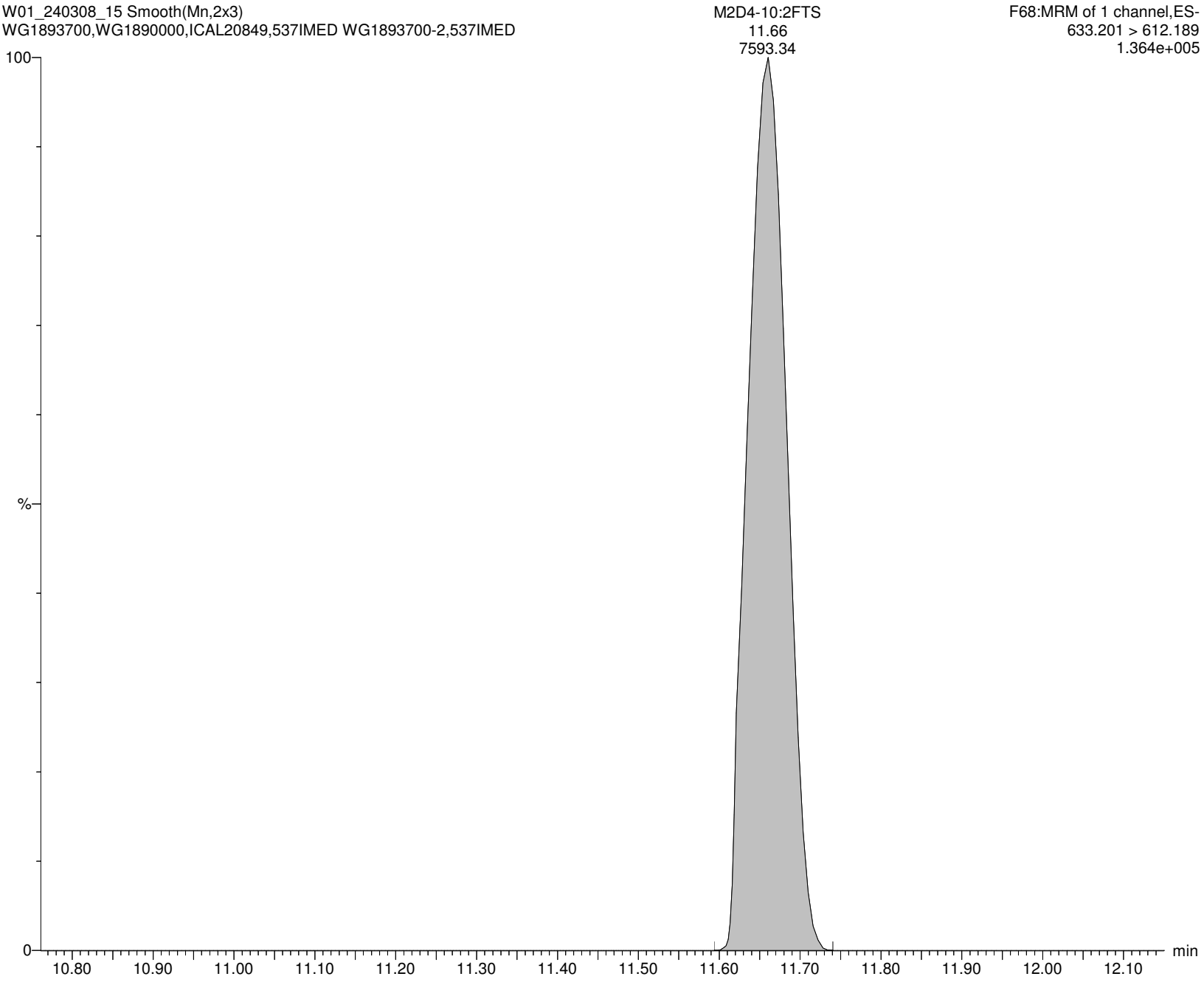

all concentration units in (ng/mL)

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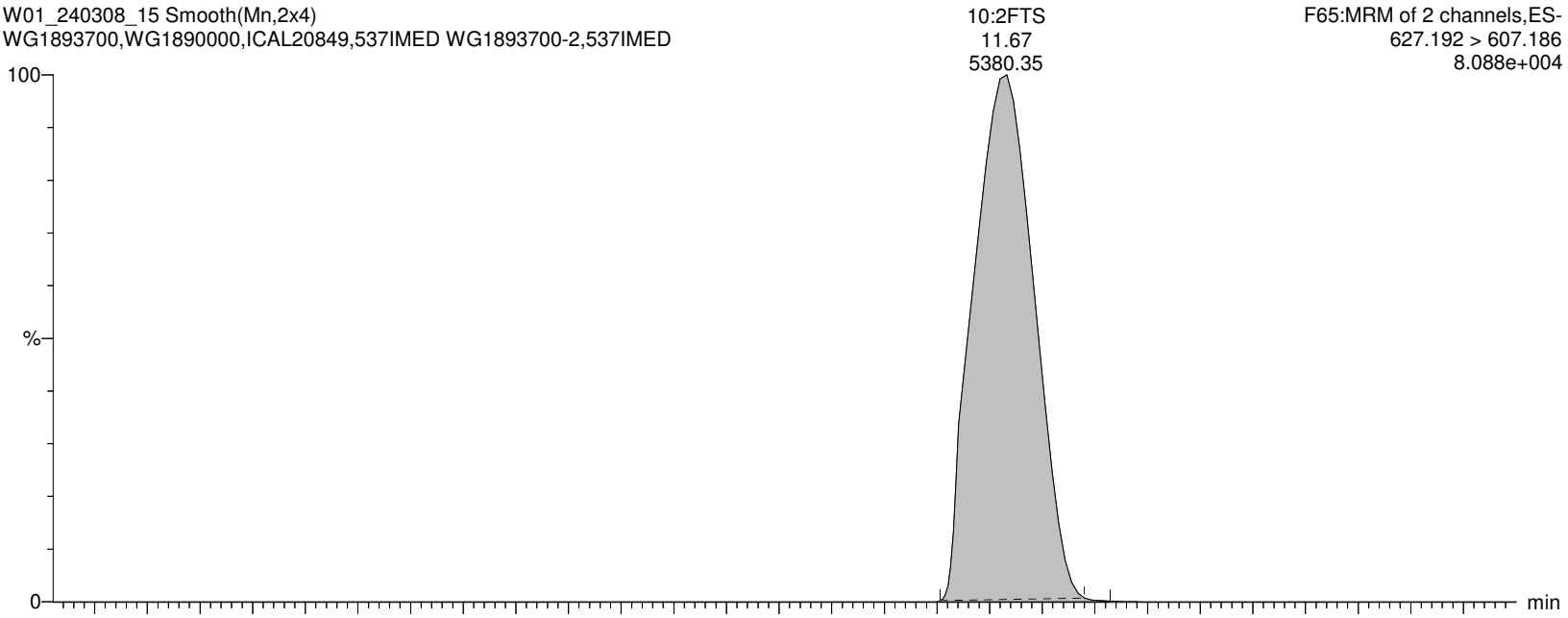
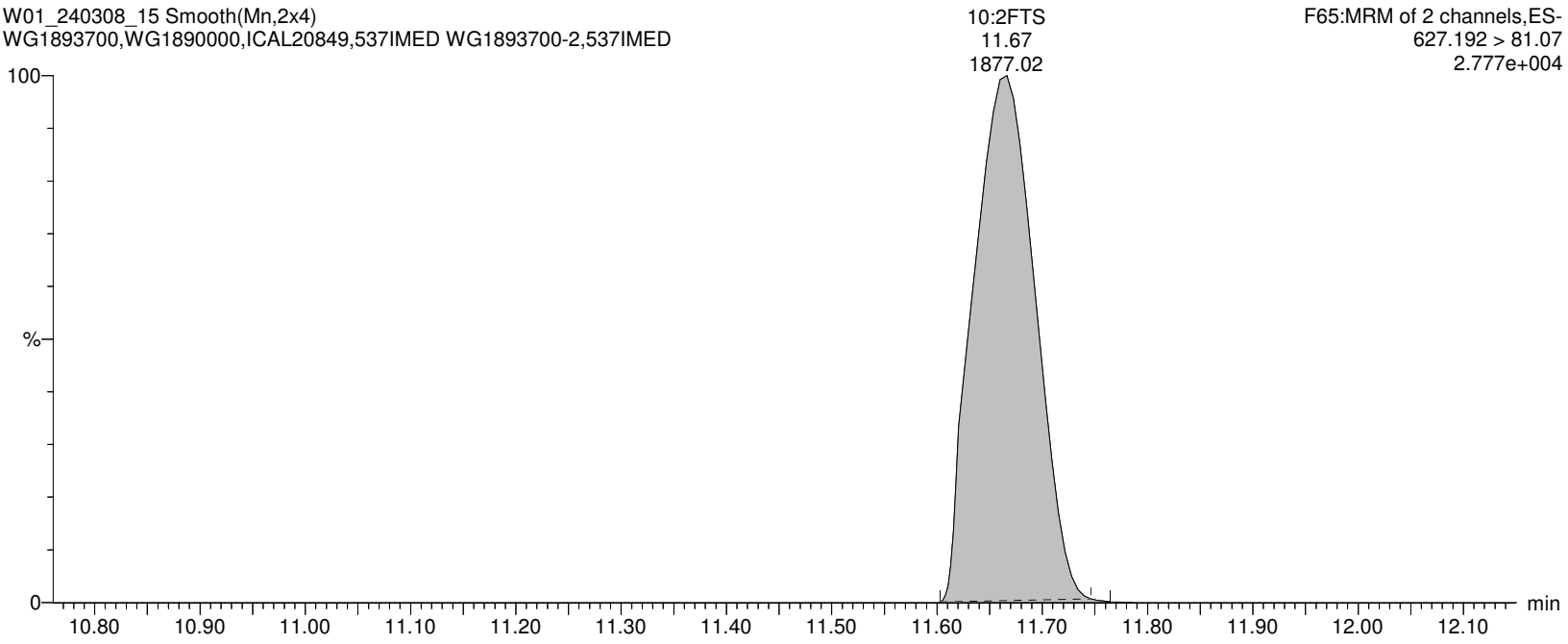
10:2FTS





all concentration units in (ng/mL)

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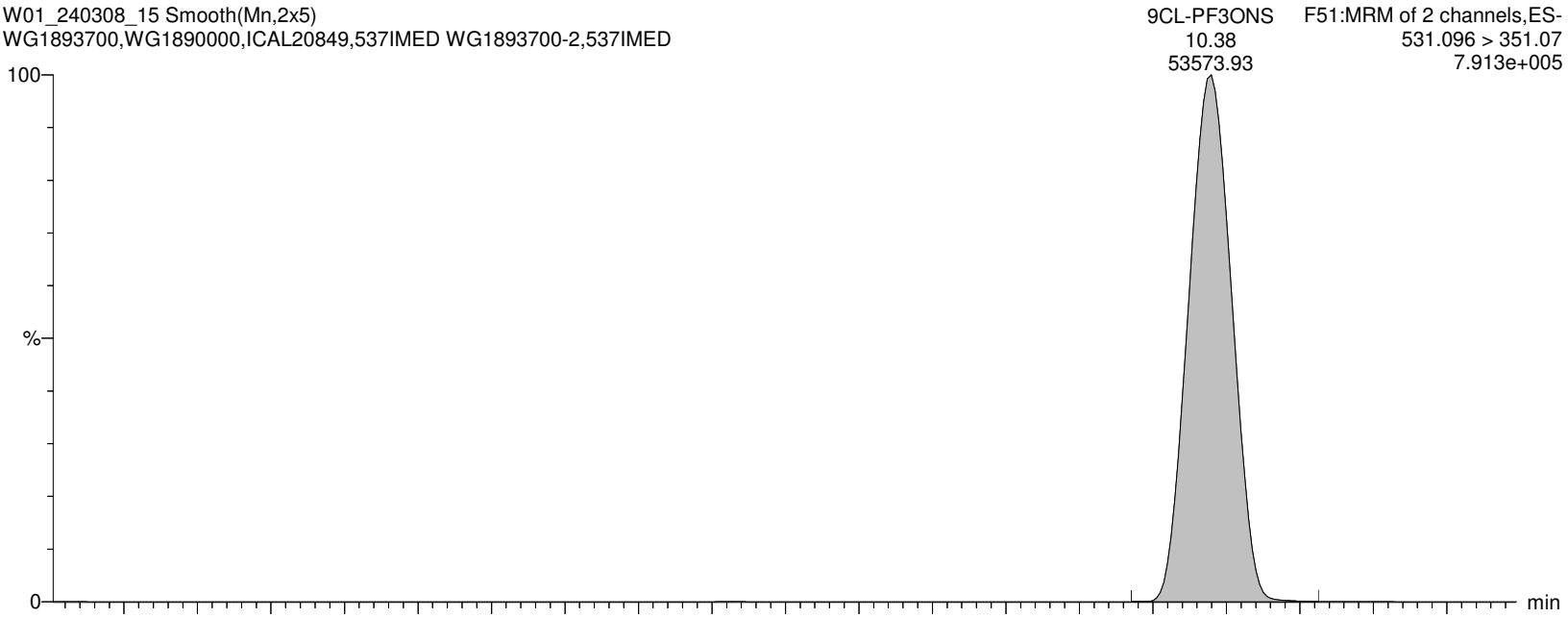
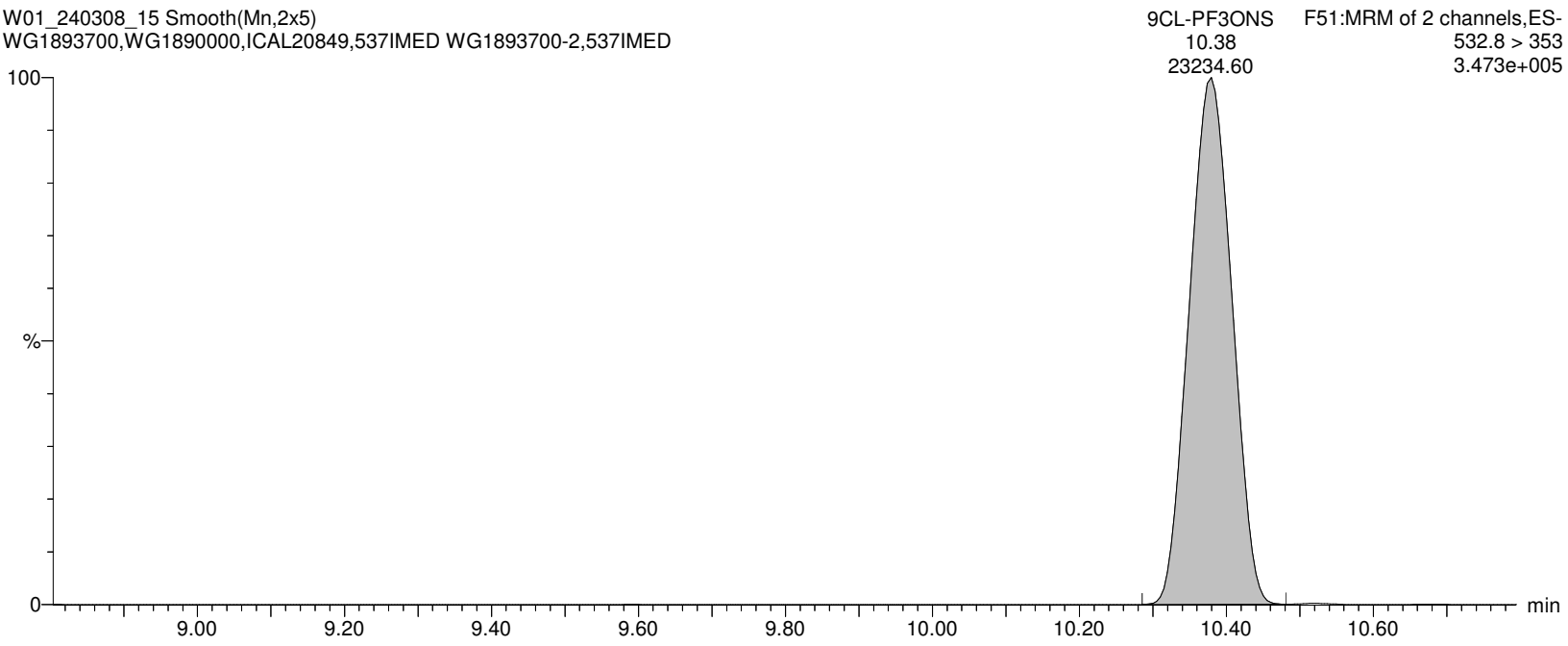
9CL-PF3ONS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 14:41:53 Eastern Standard Time
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Date: 08-Mar-2024
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User: LCMS01:AC
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
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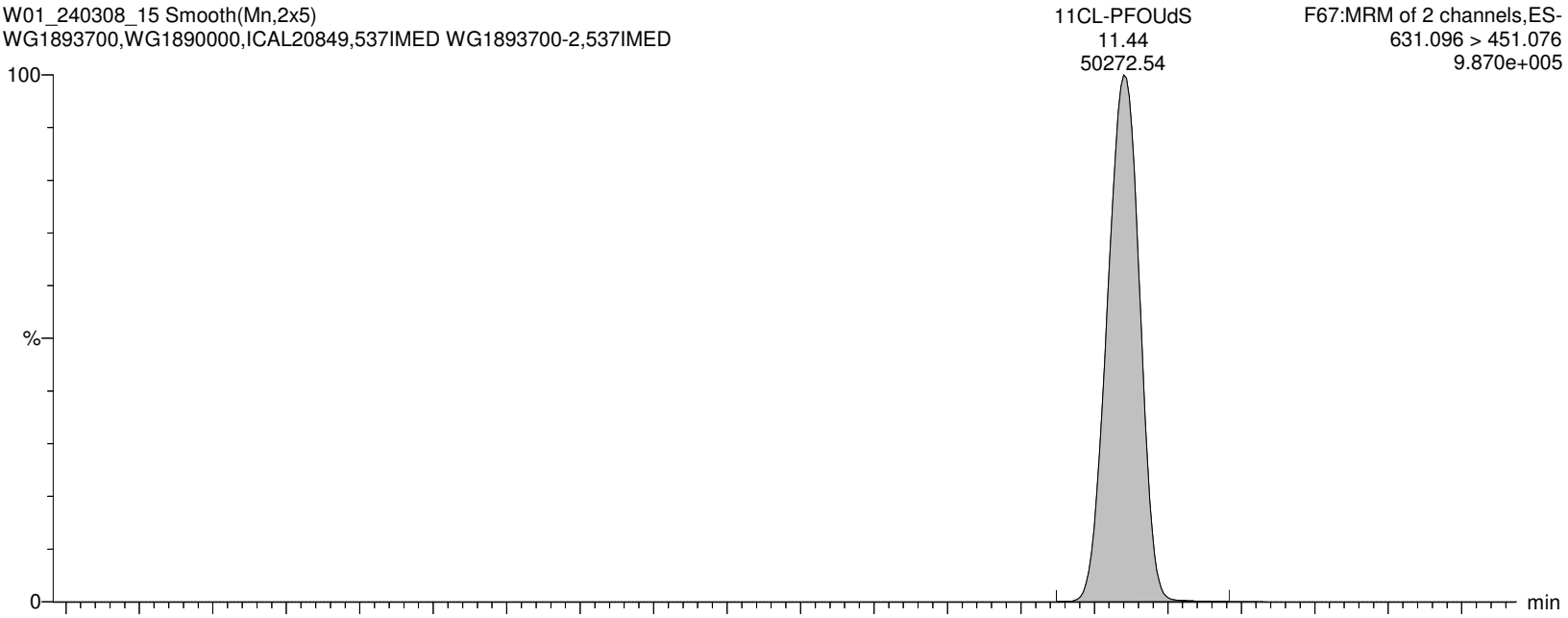
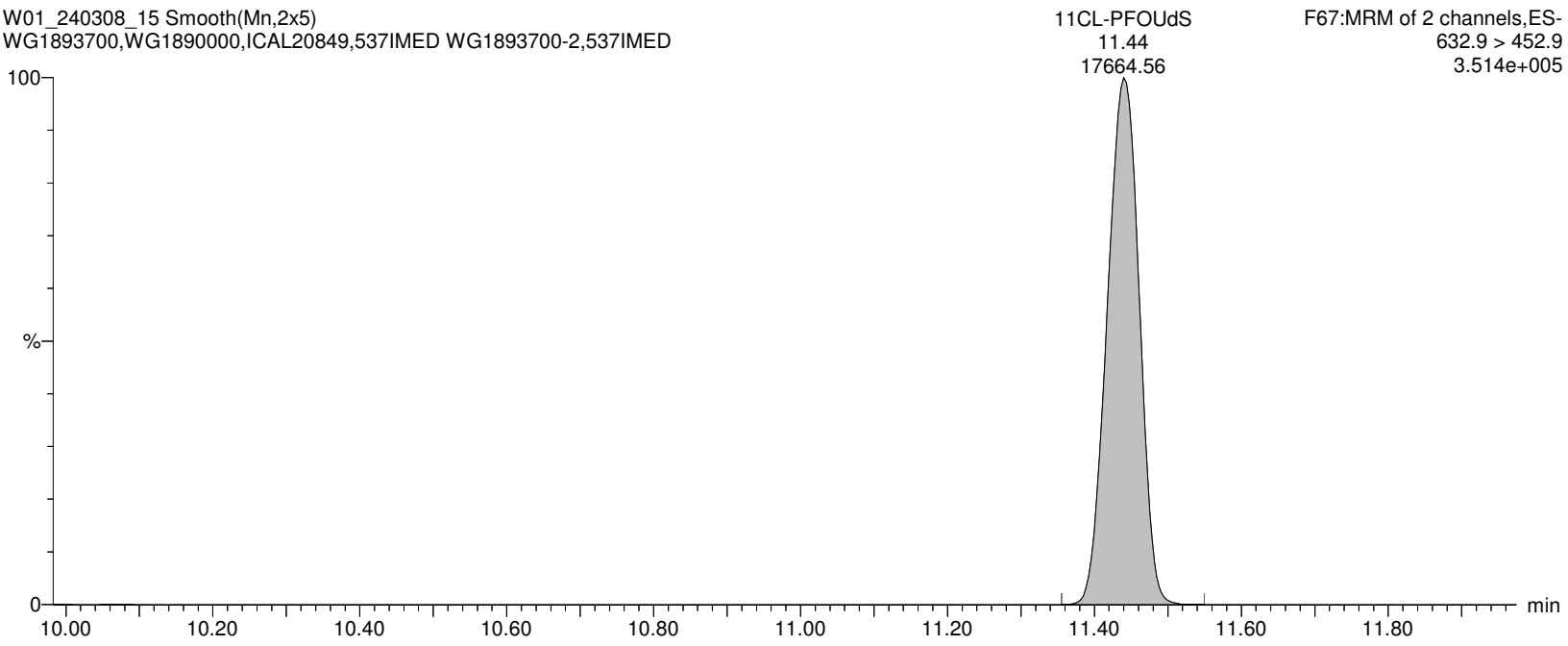
11CL-PFOUdS





all concentration units in (ng/mL)

Semivolatiles Raw QC Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:33 Eastern Standard Time

Method: C:\MassLynx\Data\2024\240308_537ISO.PRO\MethDB\537ISO_Q_240211_RT5.mdb 05 Mar 2024 06:12:37
Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

ID: WG1893322-1
Name: W01_240308_06
Date: 08-Mar-2024
Time: 06:26:32
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		213.032 > 169.022			ND		na	
2	M3PFBA	INT STD	2.26	216.009 > 171.999	46725		6.092		na	60.9
3	MPFBA	INT STD	2.26	217.001 > 171.999	55643		10.466		na	104.7
4	PFPeA	2706-90-3		263.039 > 219.03			ND		na	
5	M5PFPEA	INT STD	5.17	268.001 > 222.999	66457		11.972		na	119.7
6	PFBS	375-73-5		299.092 > 80.062			ND		YES	
7	M3PFBS	INT STD	5.81	302.069 > 80.062	20310		10.091		na	108.3
8	4:2FTS	757124-72-4		327.146 > 307.139			ND		YES	
9	M2-4:2FTS	INT STD	6.94	329.13 > 309.124	6309		10.638		na	113.4
10	PFHxA	307-24-4		313.047 > 269.037			ND		YES	
11	M5PFHxA	INT STD	7.03	318.009 > 273.007	84929		11.175		na	111.8
12	PFPeS	2706-91-4		349.1 > 80.062			ND		YES	
13	PFHpA	375-85-9		363.055 > 319.045			ND		YES	
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	80911		10.006		na	100.1
15	br-PFHxS	355-46-4		399.107 > 80.062			ND		YES	
16	L-PFHxS	355-46-4		399.107 > 80.062			ND		YES	
17	PFHxS	355-46-4		399.107 > 80.062	0		ND		na	
18	M3PFHxS	INT STD	8.41	402.084 > 80.062	21118		10.908		na	115.1
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1		413.063 > 369.053			ND		YES	
21	PFOA	335-67-1		413.063 > 369.053	0		ND		na	
22	M8PFOA	INT STD	9.18	421.002 > 376.	93830		10.679		na	106.8
23	M2PFOA	INT STD	9.18	415.048 > 370.045	86808		5.847		na	58.5
24	6:2FTS	27619-97-2		427.161 > 407.155			ND		YES	
25	M2-6:2FTS	INT STD	9.14	429.146 > 409.14	7217		10.591		na	111.4
26	PFHpS	375-92-8		449.115 > 80.062			ND		YES	
27	PFNA	375-95-1		463.071 > 419.061			ND		YES	
28	M9PFNA	INT STD	9.96	472.002 > 427.	96988		10.626		na	106.3
29	br-PFOS	1763-23-1		499.123 > 80.062			ND		YES	
30	L-PFOS	1763-23-1		499.123 > 80.062			ND		YES	
31	PFOS	1763-23-1		499.123 > 80.062	0		ND		na	
32	M4PFOS	INT STD	10.00	503.093 > 80.062	21191		5.722		na	59.6
33	M8PFOS	INT STD	10.00	507.062 > 80.062	21965		9.716		na	101.3
34	PFDA	335-76-2		513.078 > 469.069			ND		YES	
35	M2PFDA	INT STD	10.60	515.063 > 470.061	79622		5.935		na	59.3
36	M6PFDA	INT STD	10.60	519.033 > 474.03	82253		10.362		na	103.6
37	8:2FTS	39108-34-4		527.177 > 507.171			ND		YES	
38	M2-8:2FTS	INT STD	10.59	529.162 > 509.155	8055		11.178		na	116.4
39	PFNS	68259-12-1		549.131 > 80.062			ND		YES	

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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	12291		10.080		na	100.8
41	br-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
42	L-NMeFOSAA	2355-31-9		570.202 > 419.061			ND		YES	
43	NMeFOSAA	2355-31-9		570.202 > 419.061	0		ND		na	
44	PFUnA	2058-94-8		563.086 > 519.076			ND		YES	
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	94457		10.921		na	109.2
46	PFDS	335-77-3		598.926 > 80.062			ND		YES	
47	FOSA	754-91-6		498.146 > 78.07			ND		YES	
48	M8FOSA	INT STD	10.92	506.077 > 78.07	36860		6.315		na	63.1
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	11744		10.219		na	102.2
50	br-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
51	L-NEtFOSAA	2991-50-6		584.229 > 419.061			ND		YES	
52	NEtFOSAA	2991-50-6		584.229 > 419.061	0		ND		na	
53	PFDoA	307-55-1		613.094 > 569.084			ND		YES	
54	MPFDOA	INT STD	11.64	615.079 > 570.077	94389		9.724		na	97.2
55	PFTrDA	72629-94-8		663.102 > 619.092			ND		YES	
56	PFTA	376-06-7		713.11 > 669.1			ND		YES	
57	M2PFTEDA	INT STD	12.43	715.094 > 670.092	84496		9.652		na	96.5

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:33 Eastern Standard Time

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ID: WG1893322-1
Date: 08-Mar-2024
Time: 06:26:32
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
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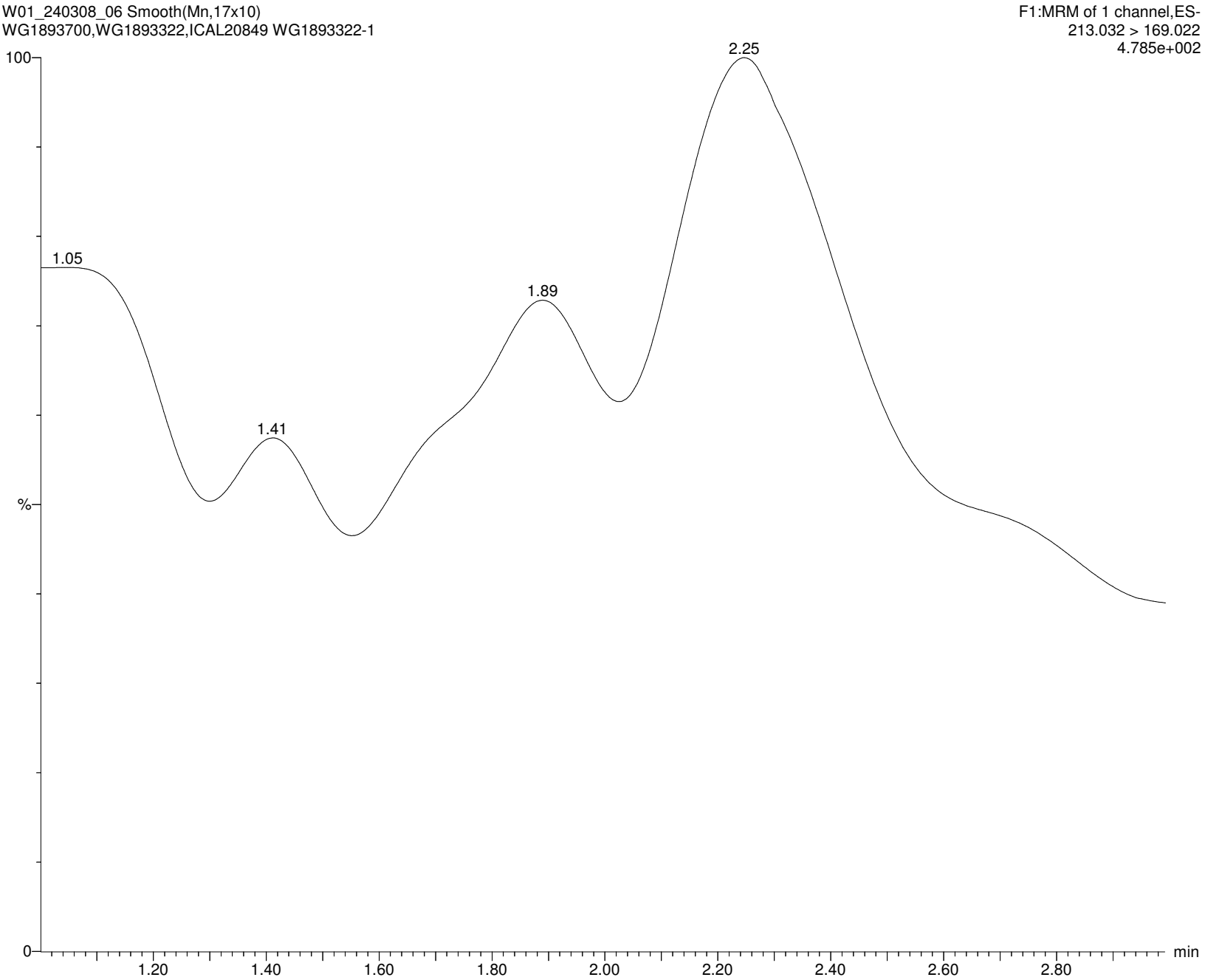

all concentration units in (ng/mL)

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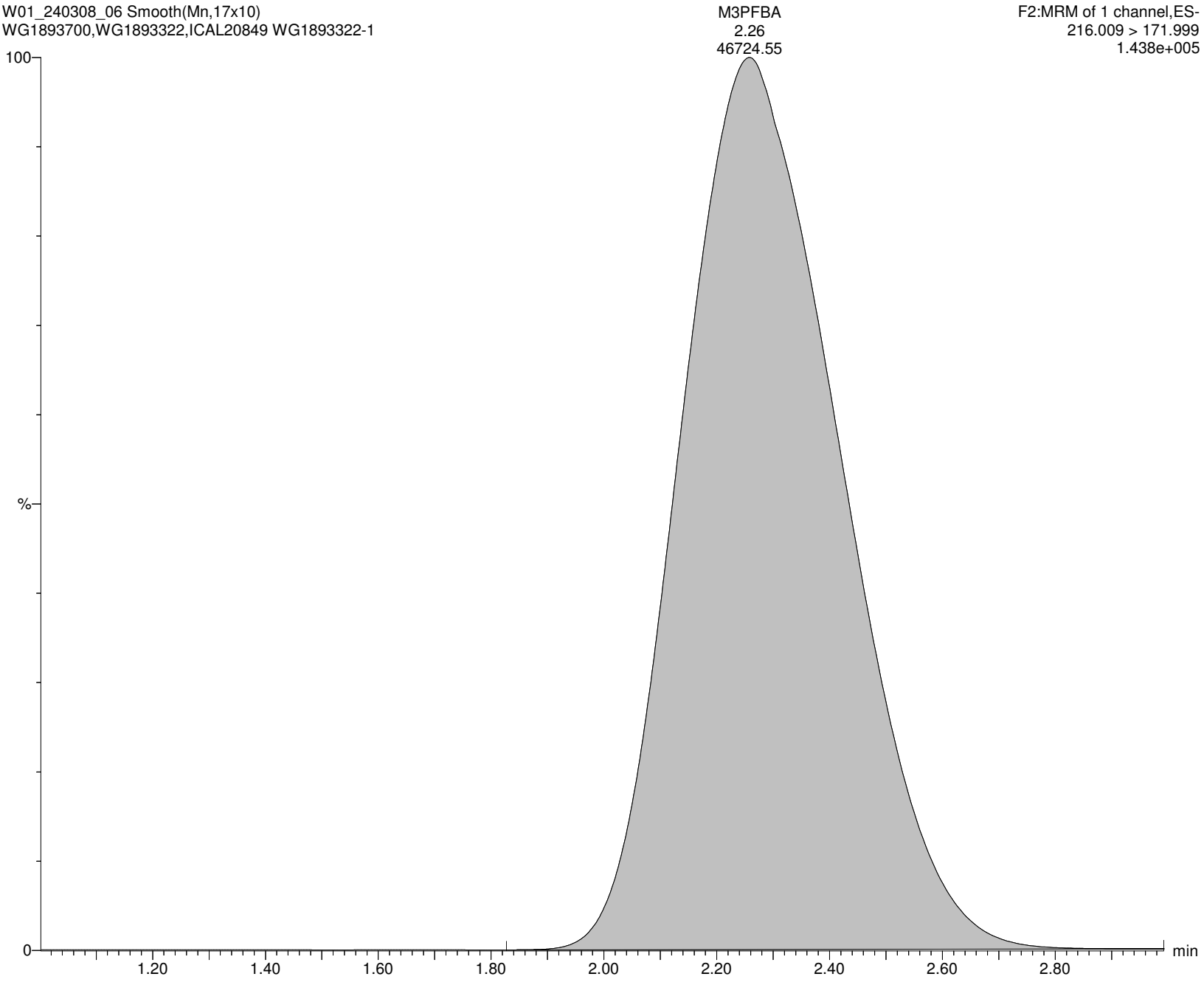

all concentration units in (ng/mL)

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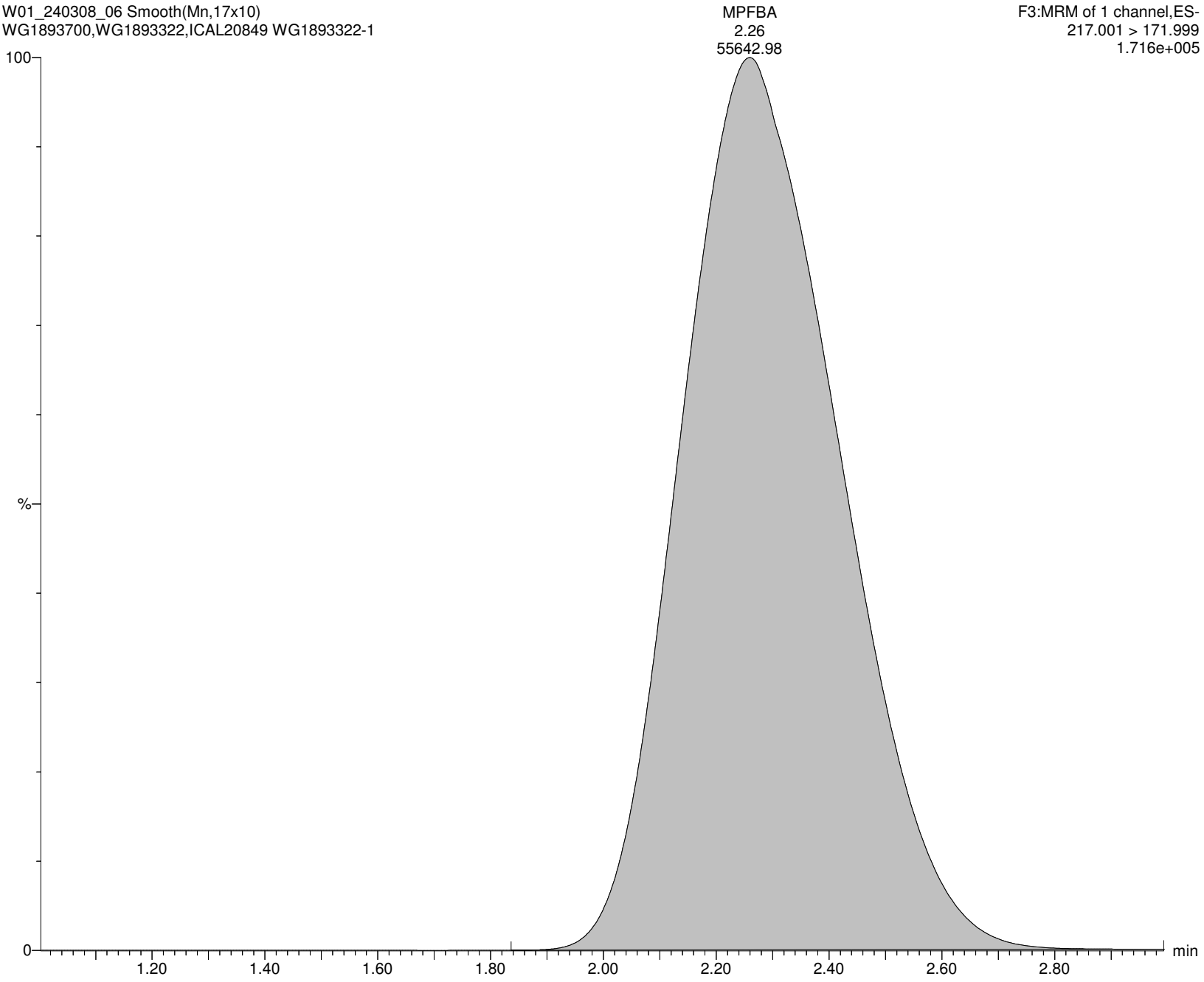

all concentration units in (ng/mL)

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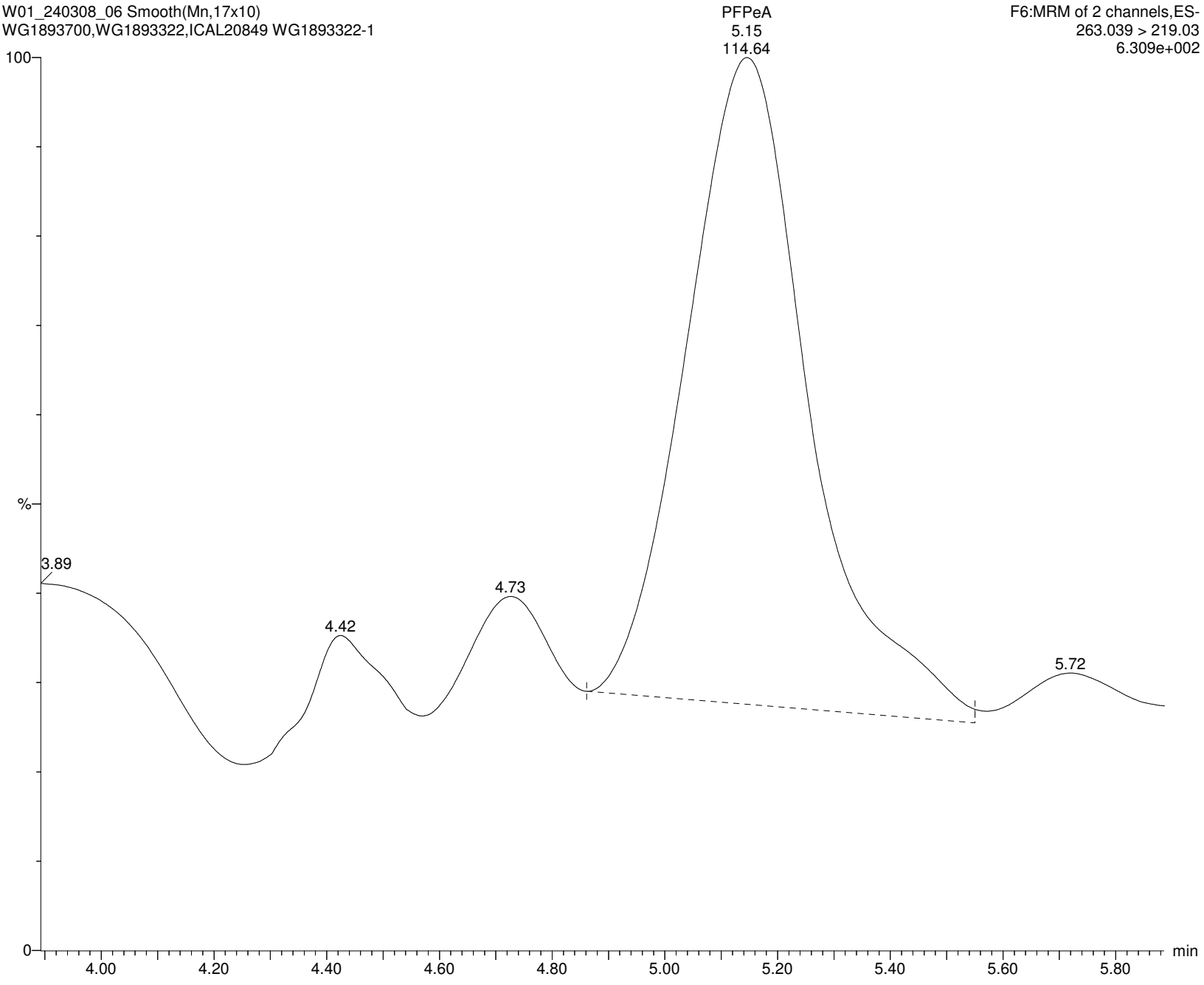

all concentration units in (ng/mL)

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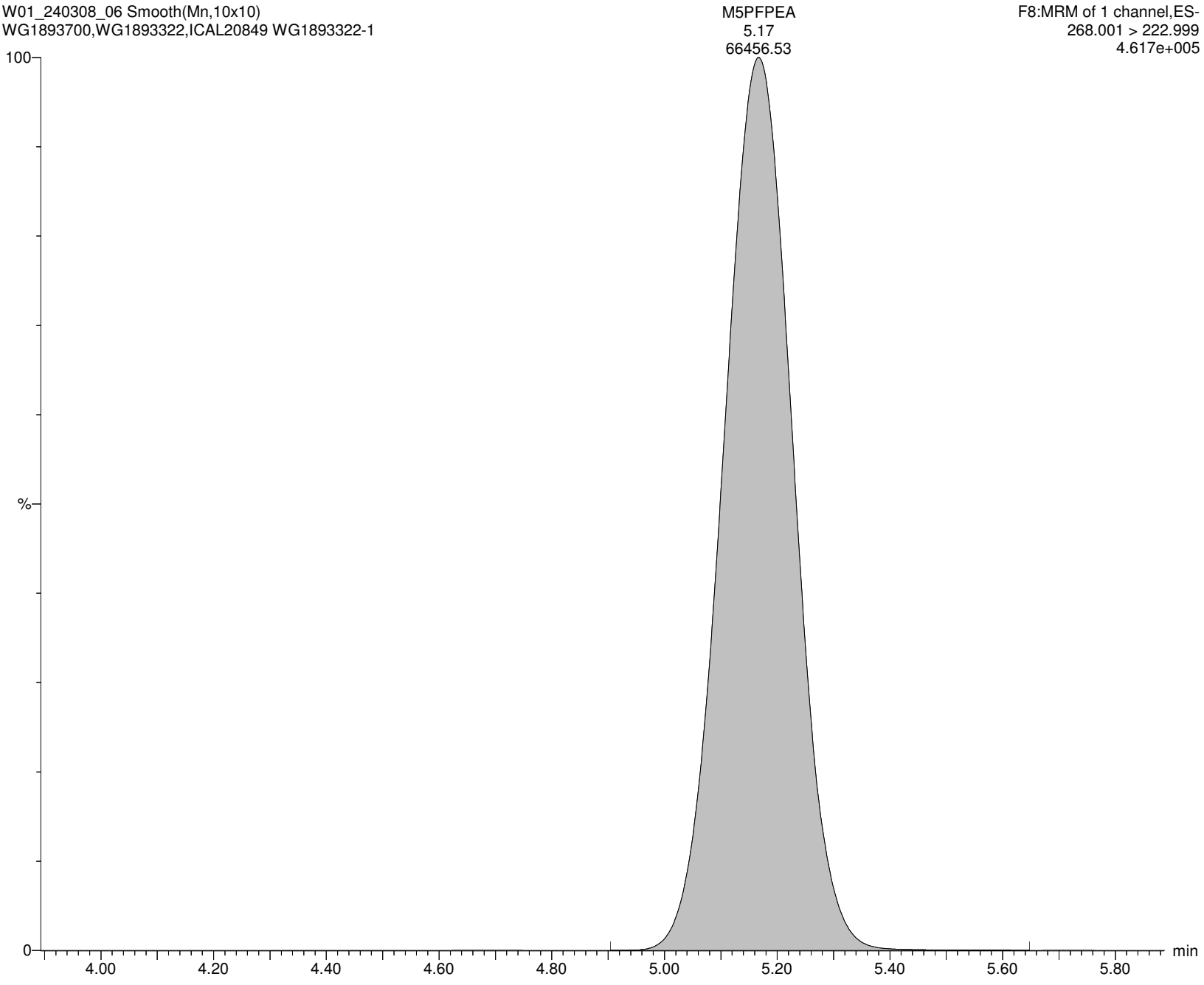

all concentration units in (ng/mL)

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Vial: 1:B,1
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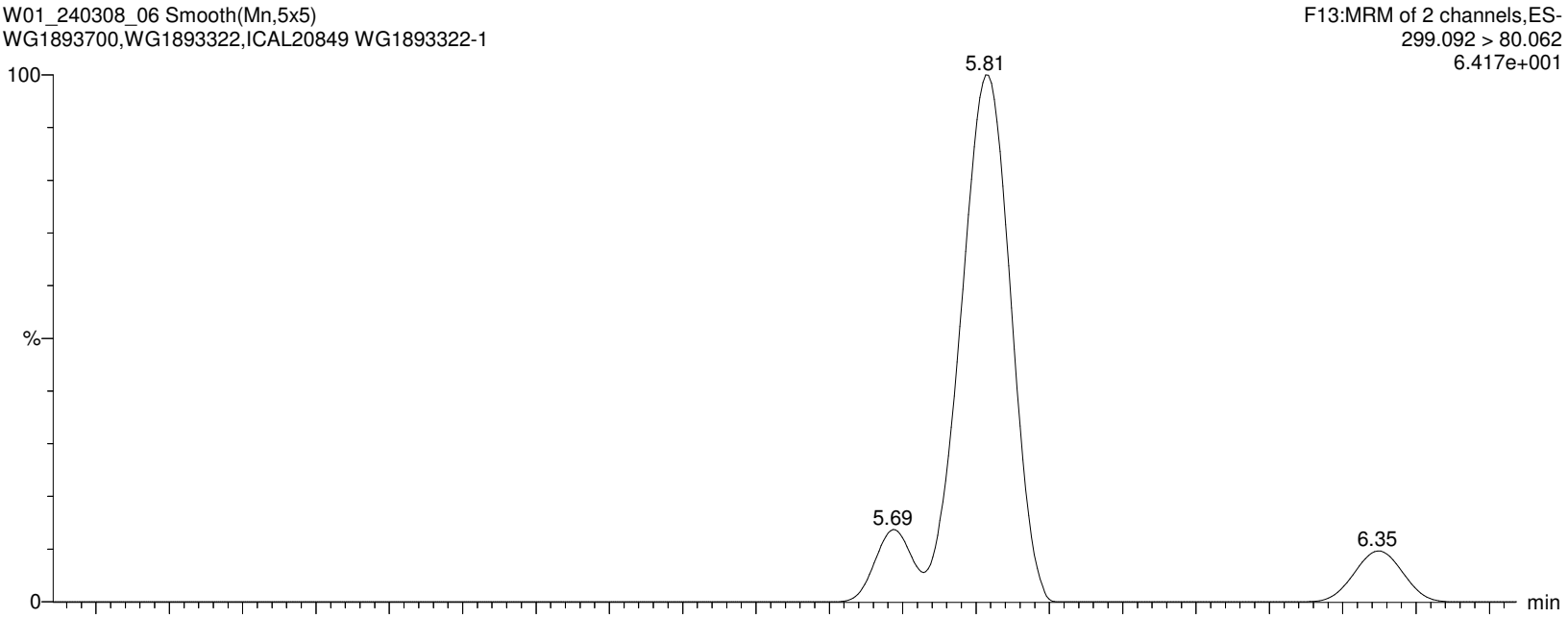

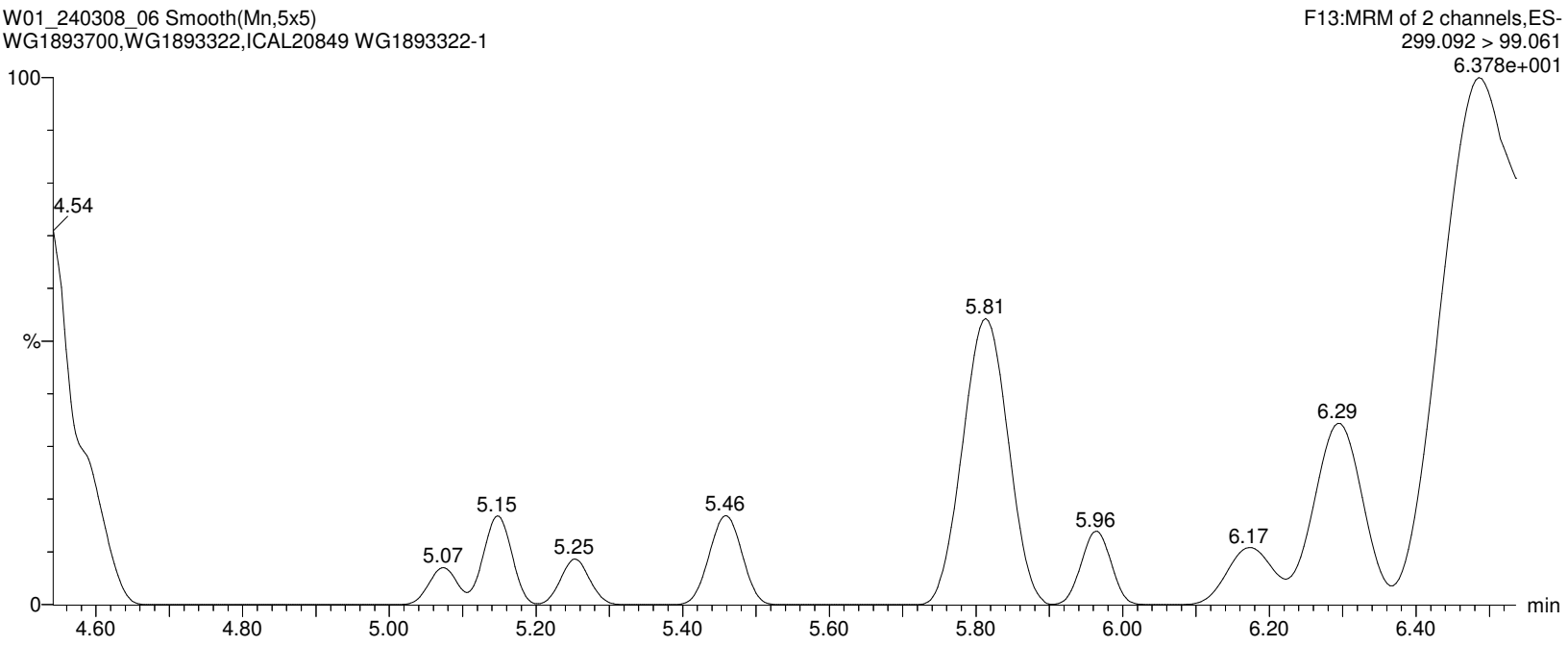

all concentration units in (ng/mL)

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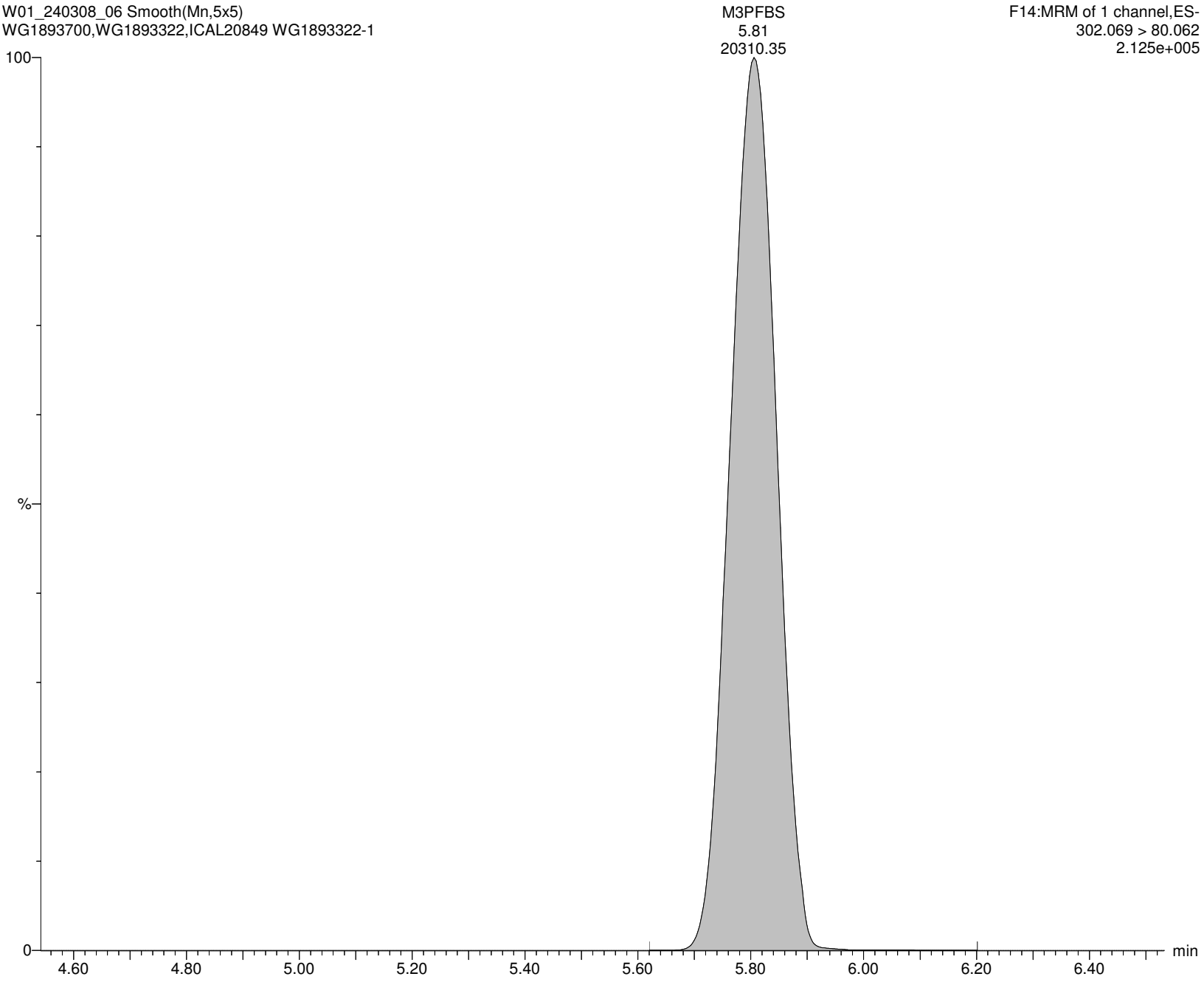

all concentration units in (ng/mL)

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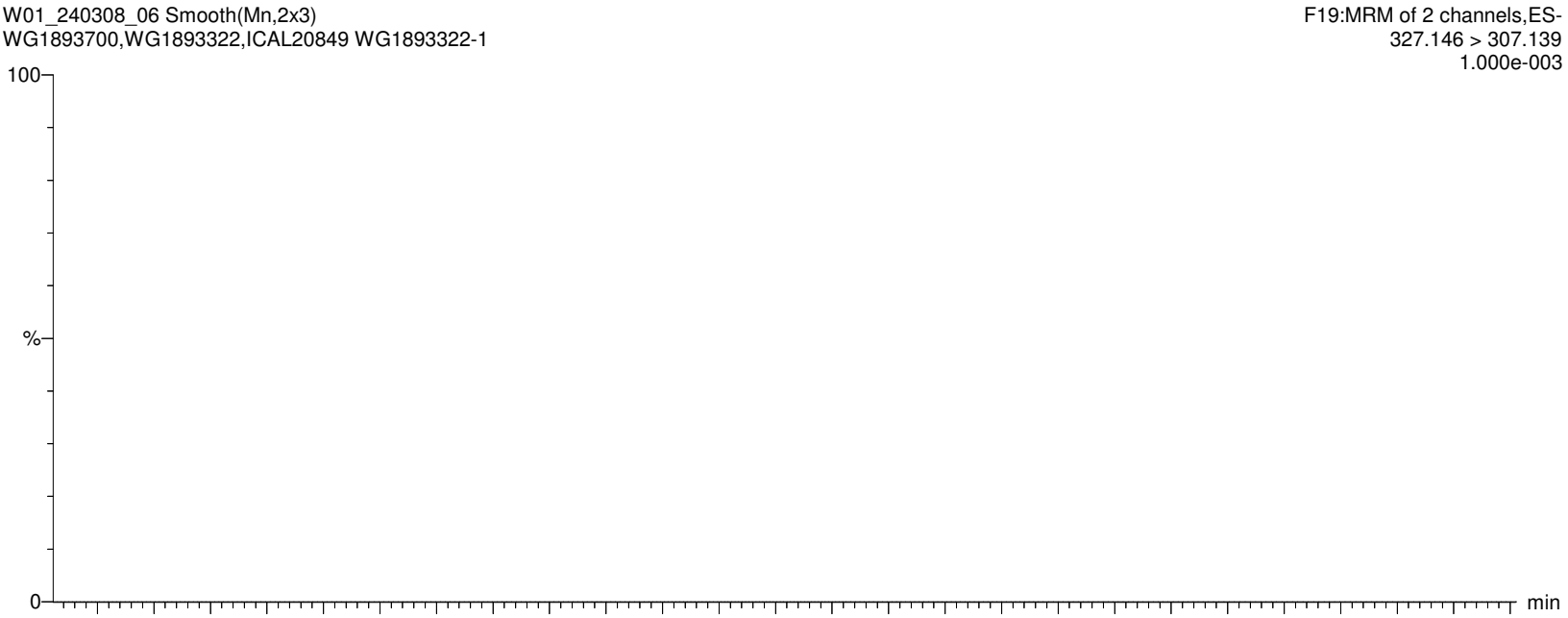
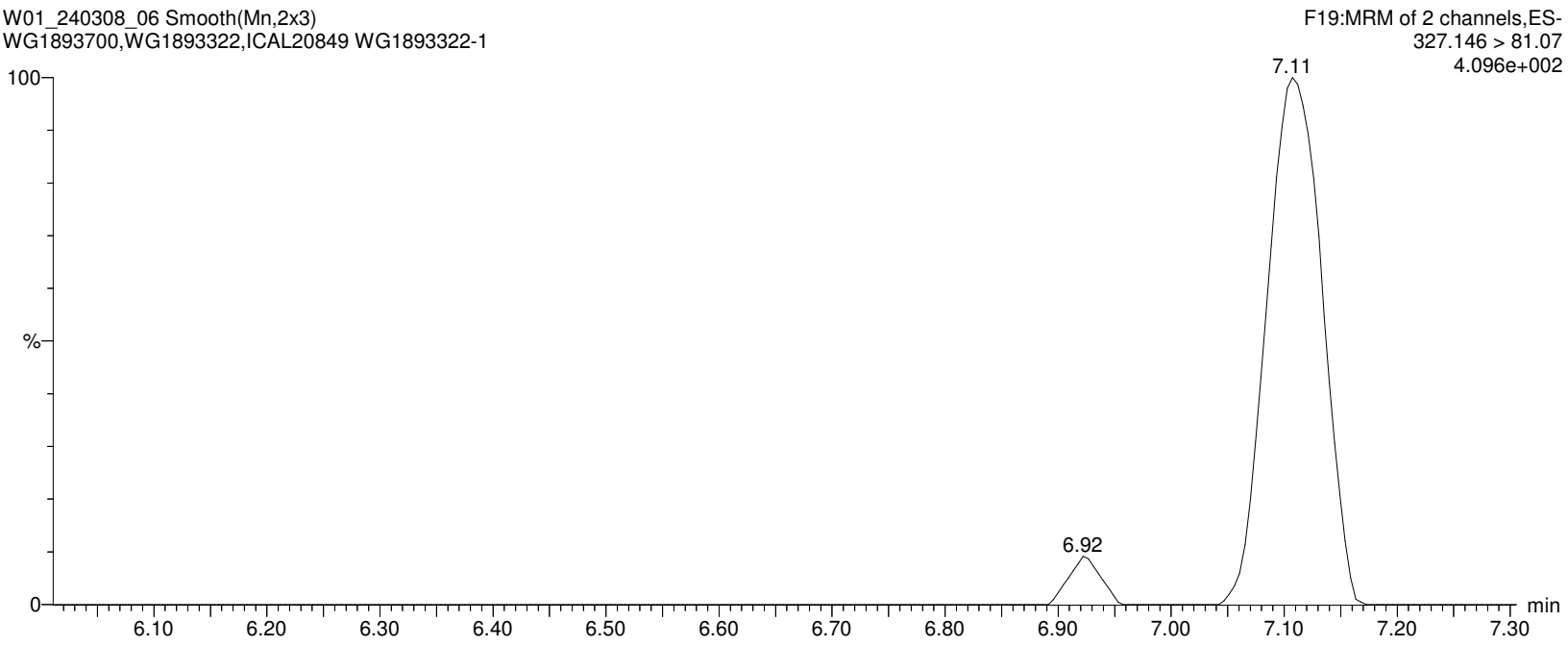
4:2FTS





all concentration units in (ng/mL)

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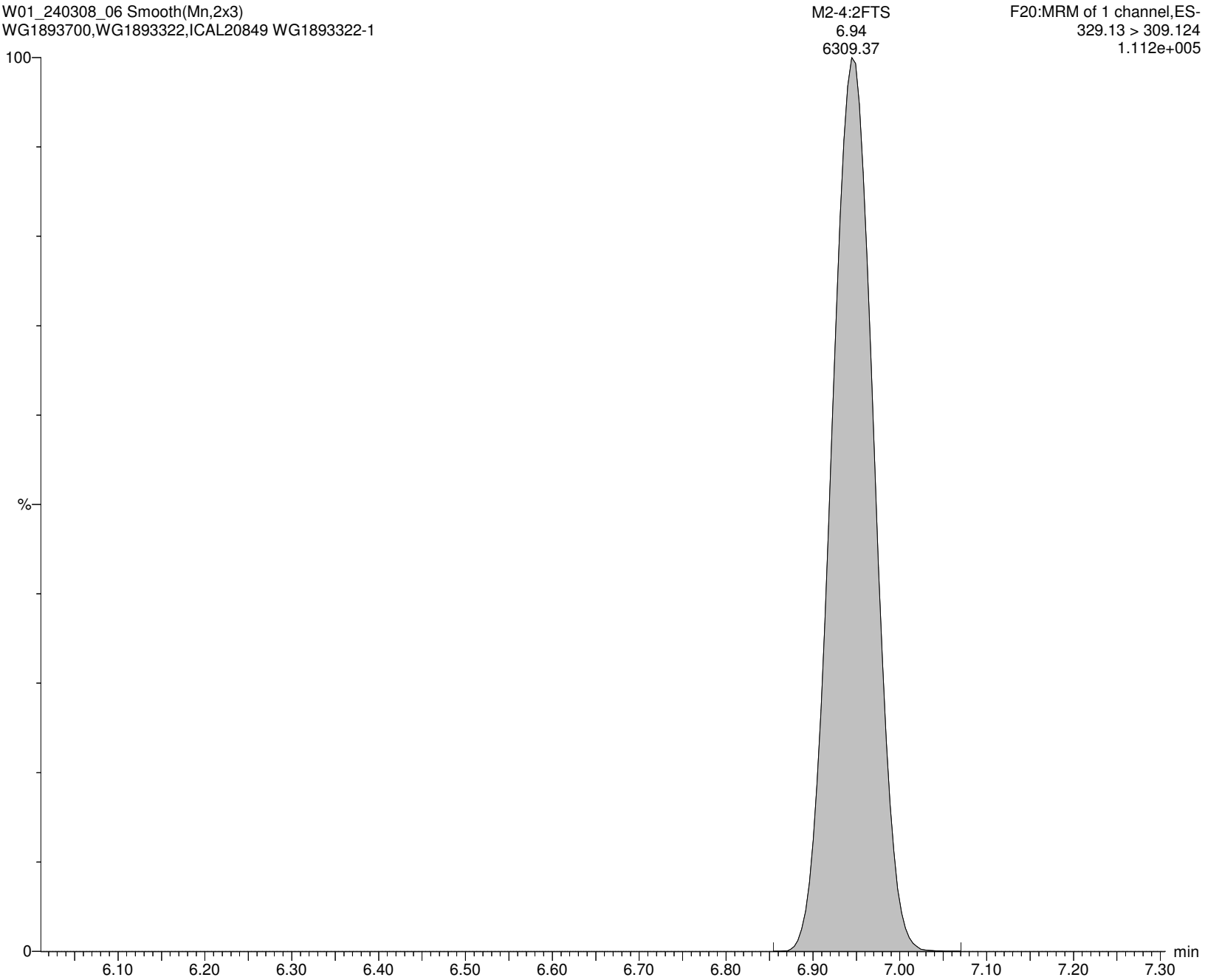

all concentration units in (ng/mL)

Alpha Analytical Inc.
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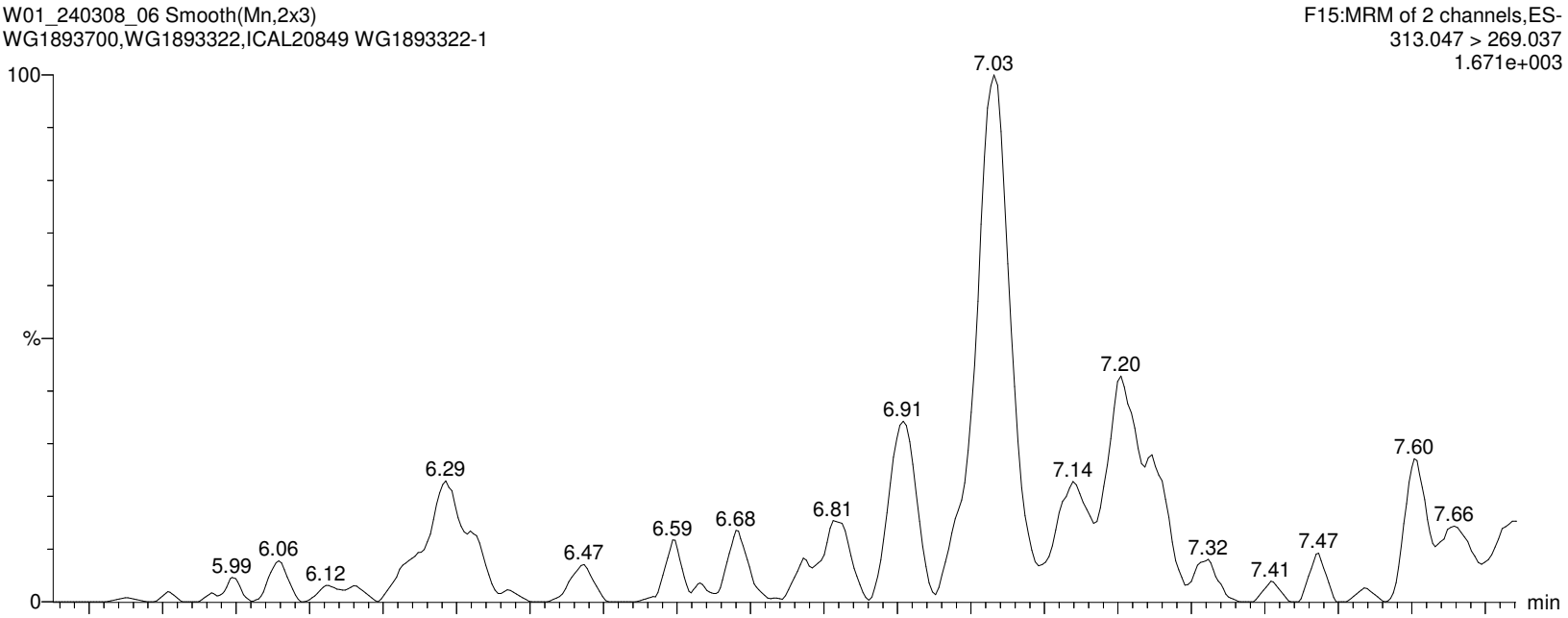

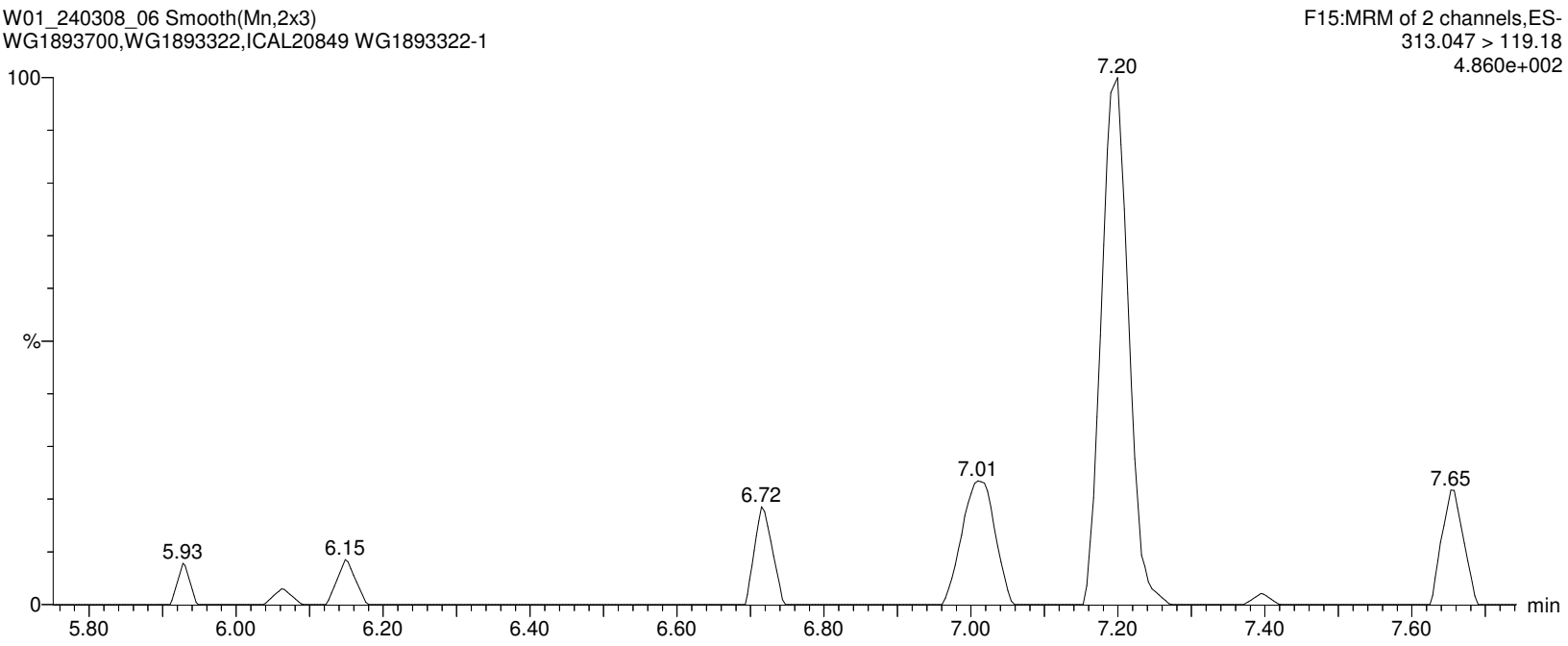

all concentration units in (ng/mL)

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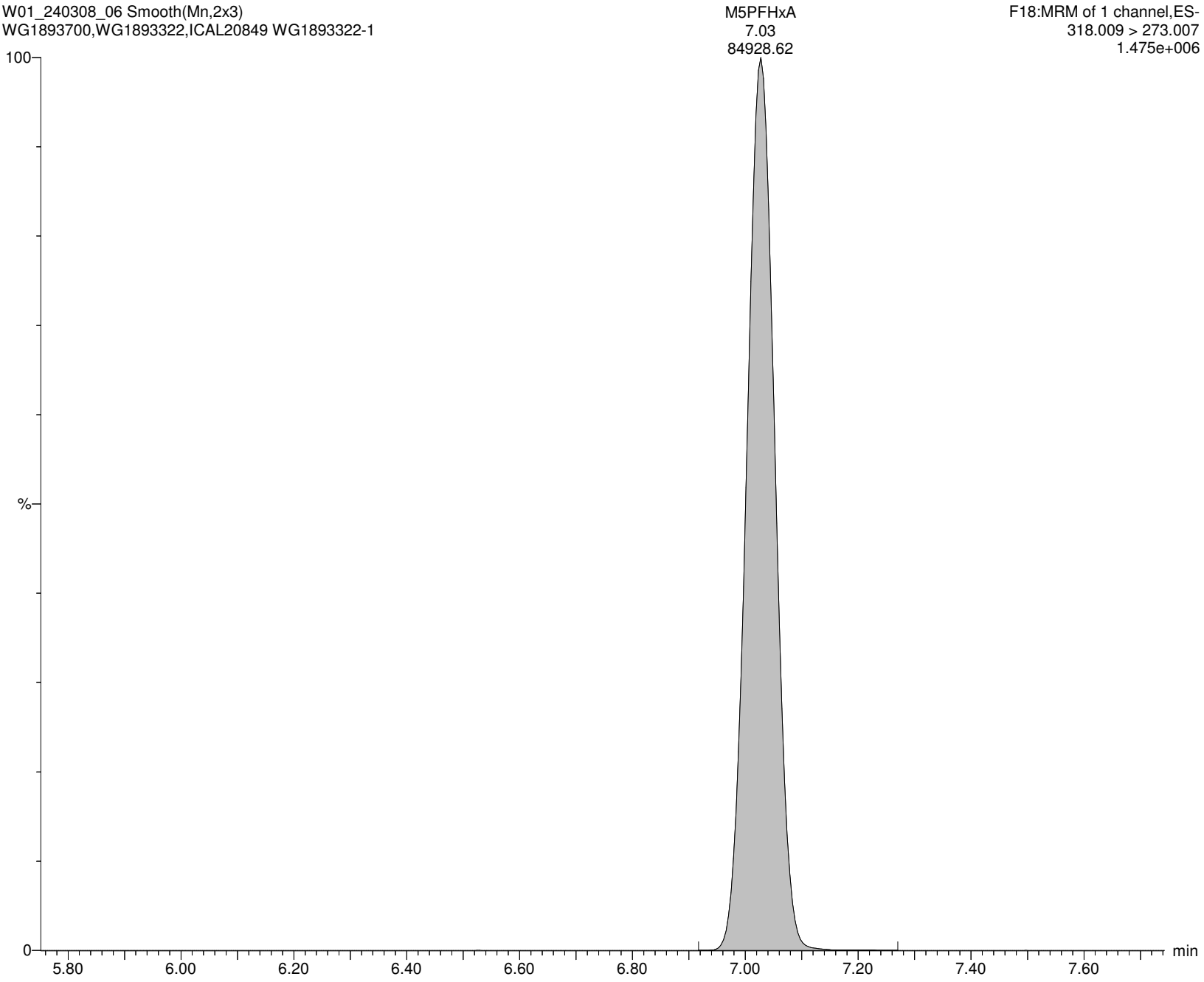
M5PFHxA



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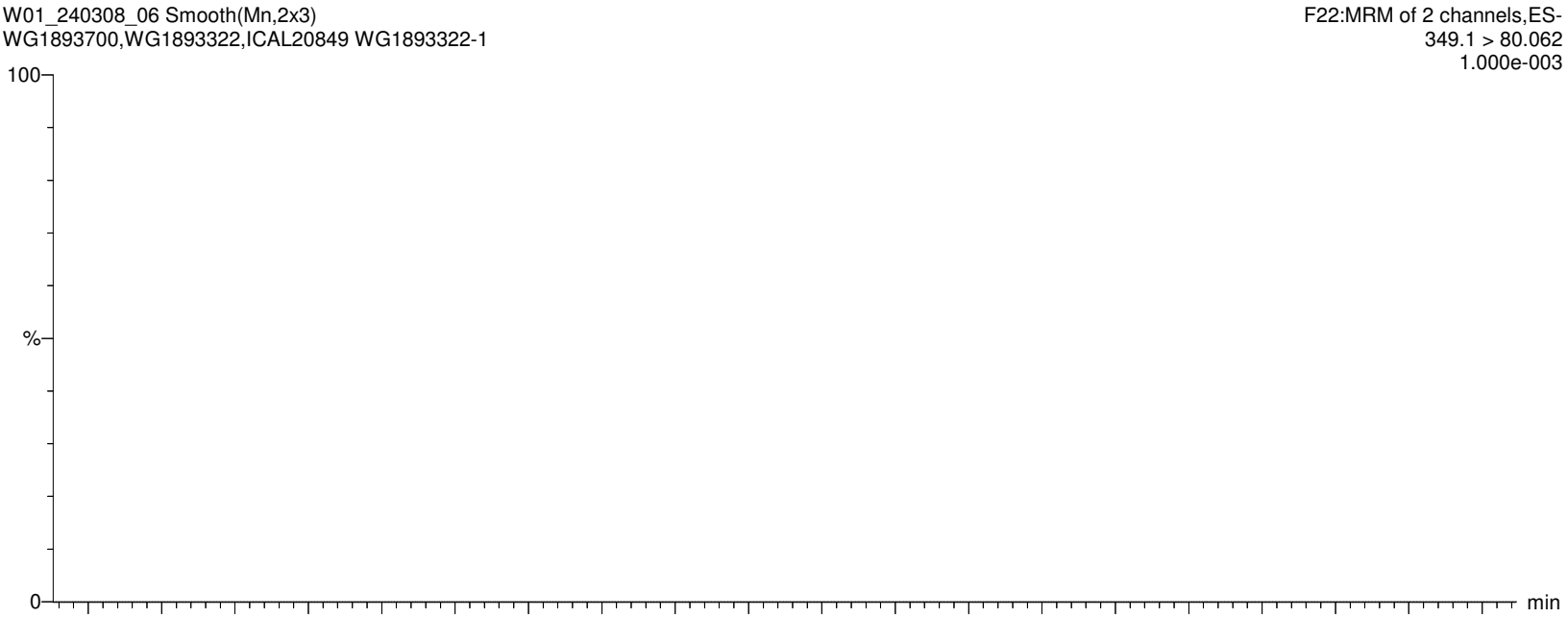
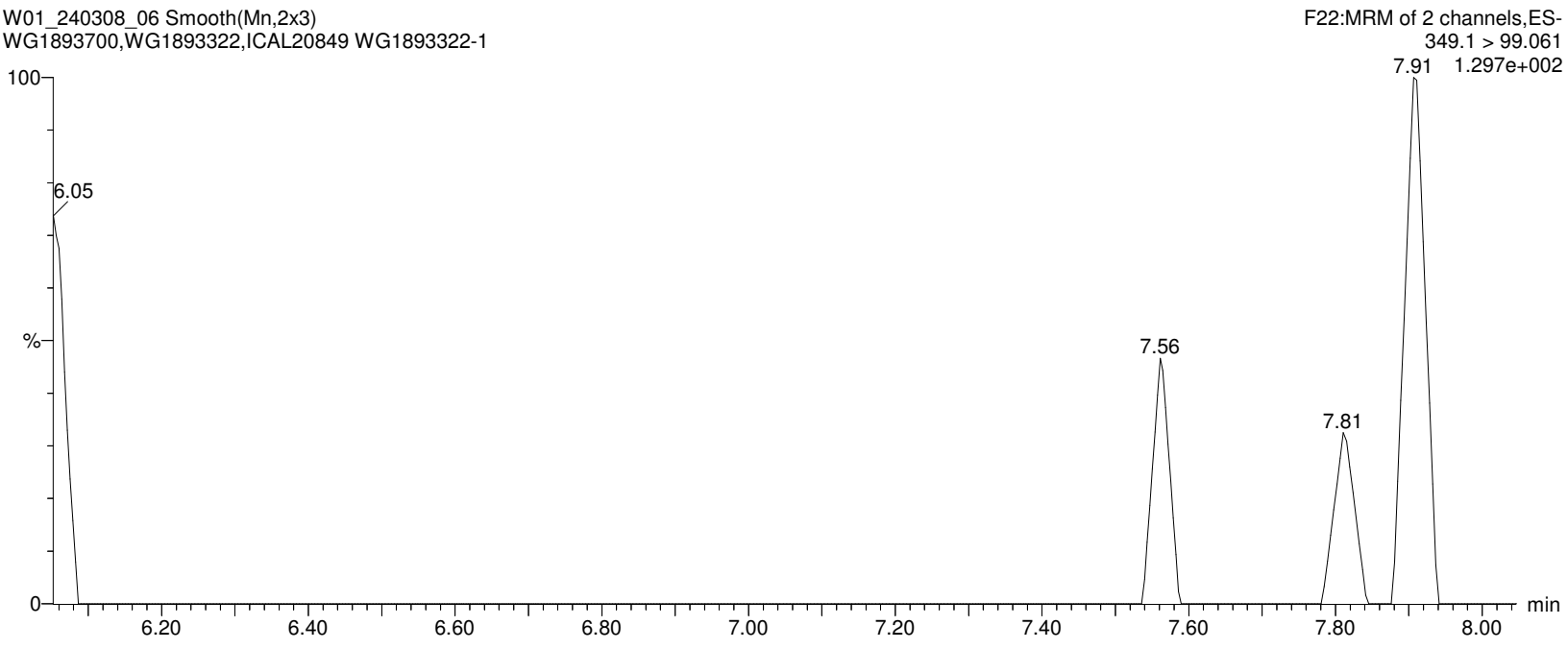
PFPeS





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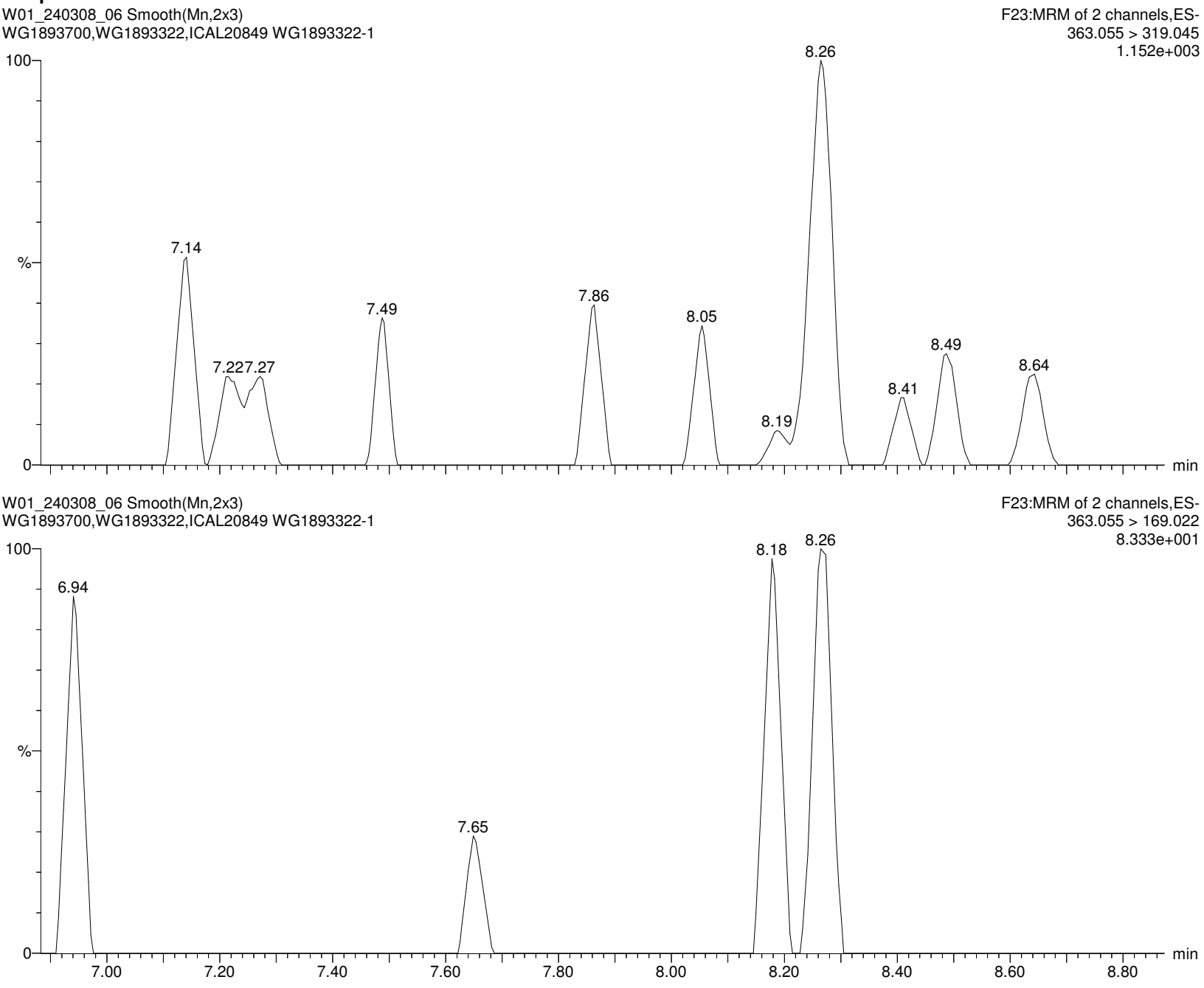

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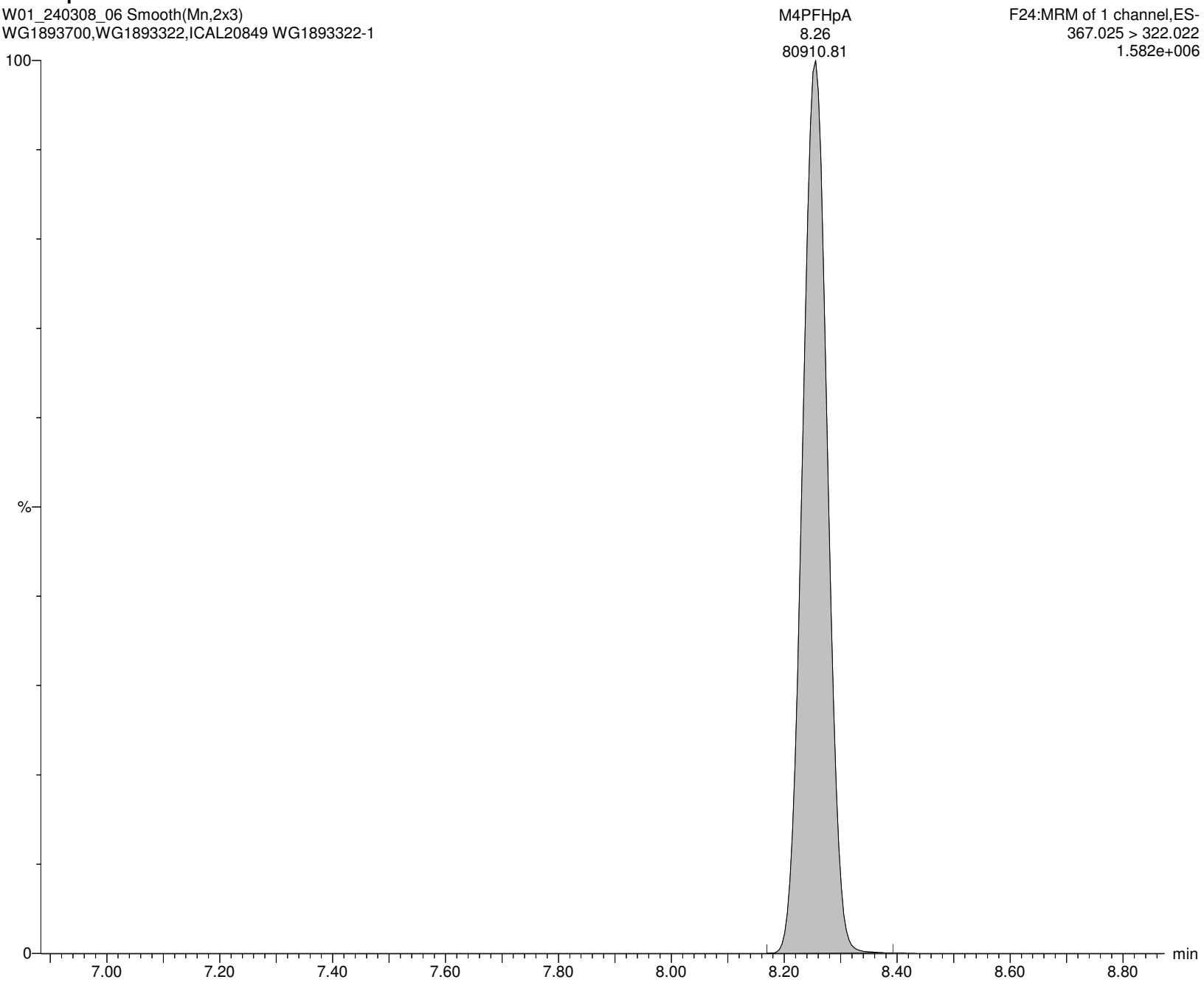

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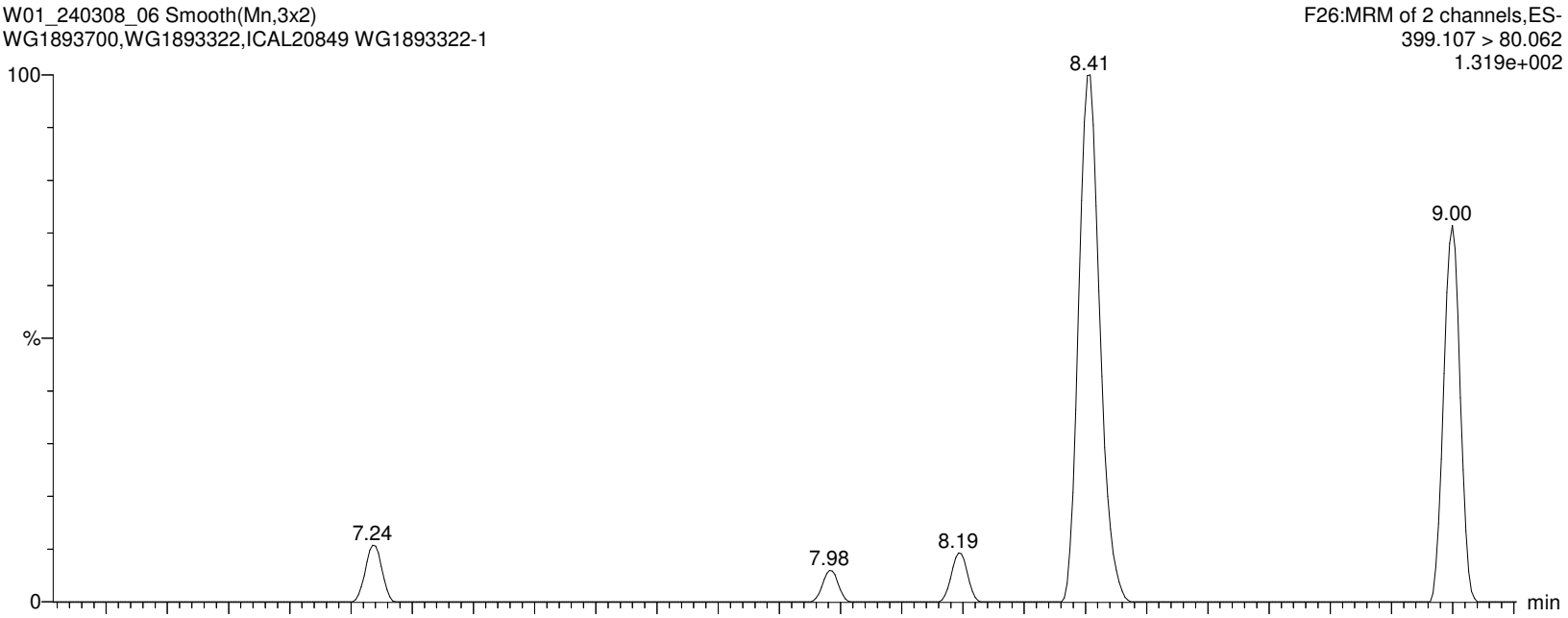

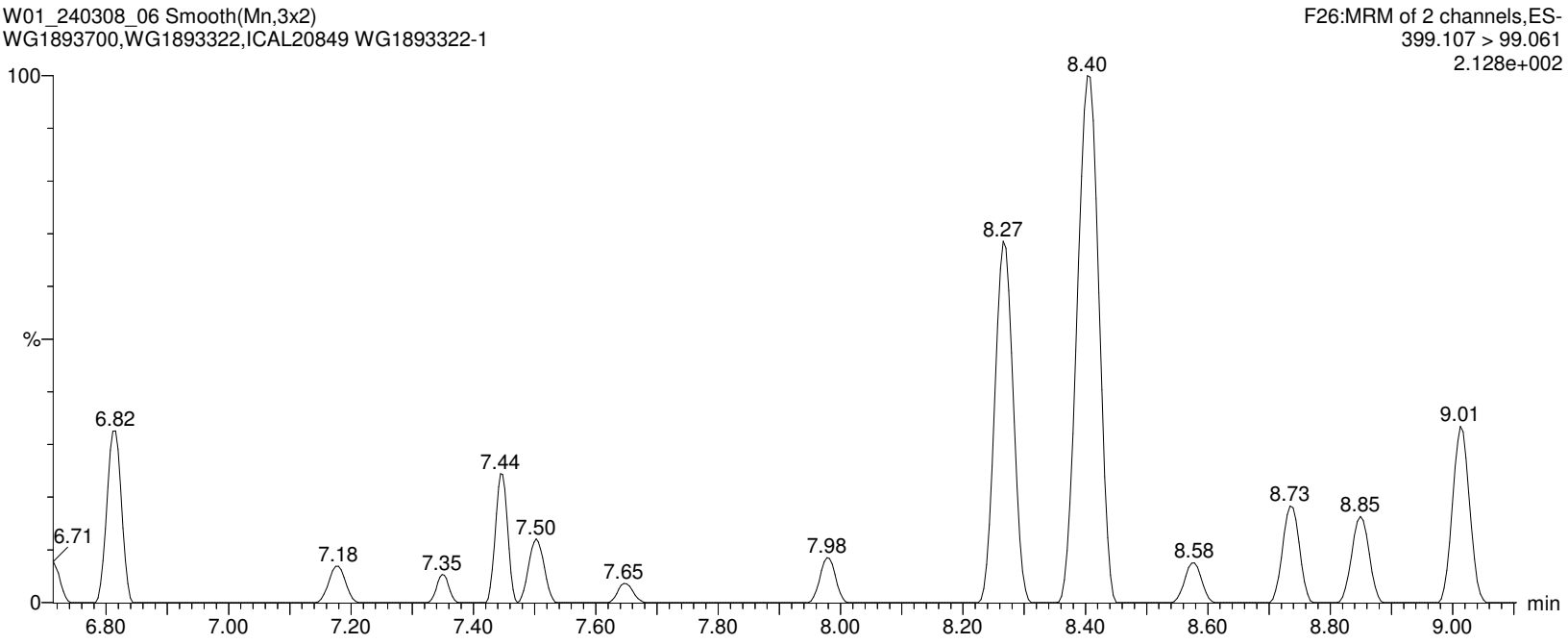

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Date: 08-Mar-2024
Time: 06:26:32
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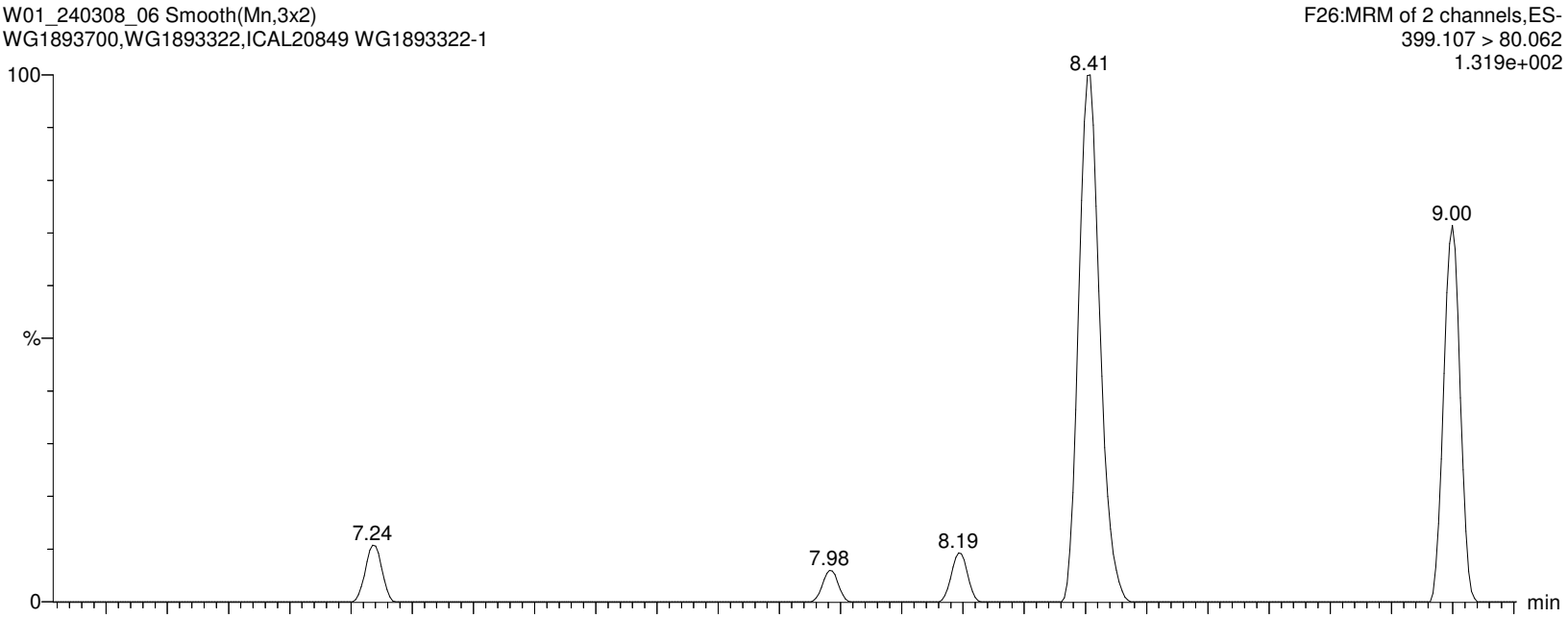

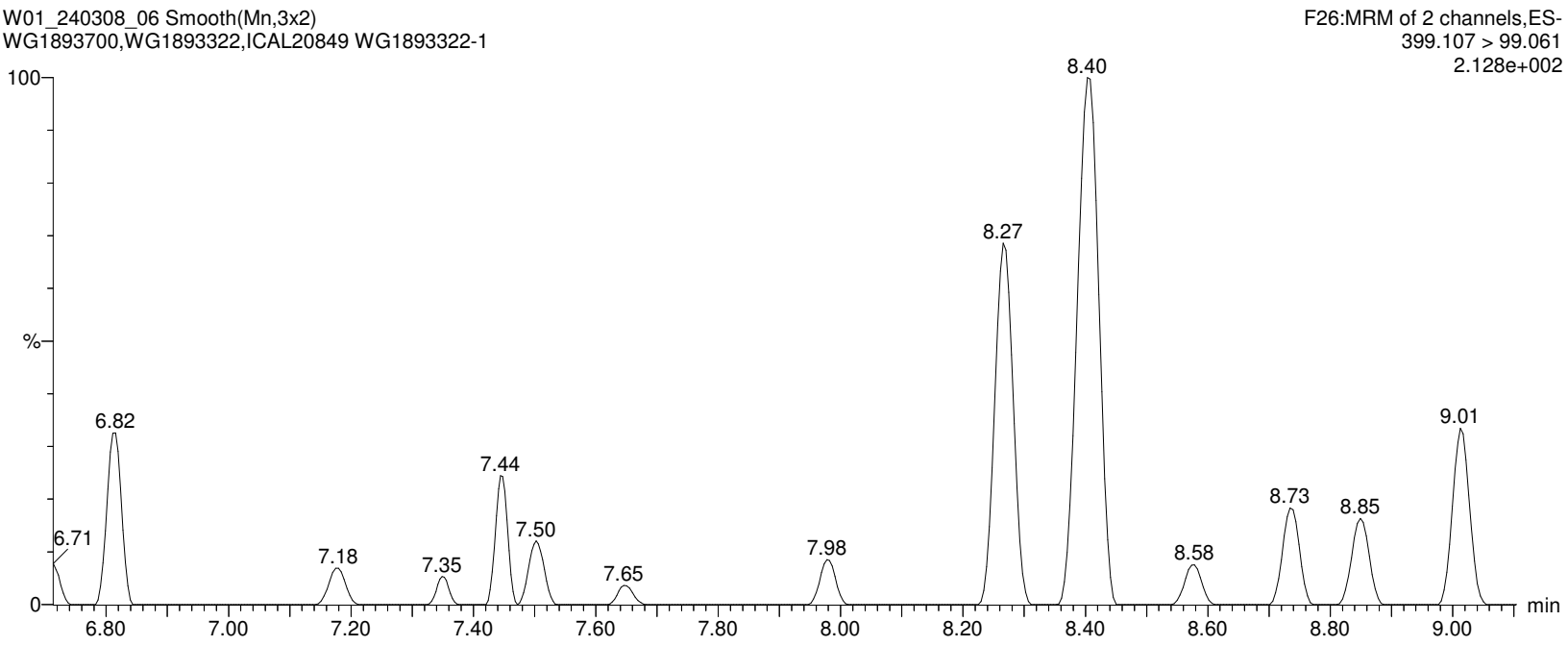

all concentration units in (ng/mL)

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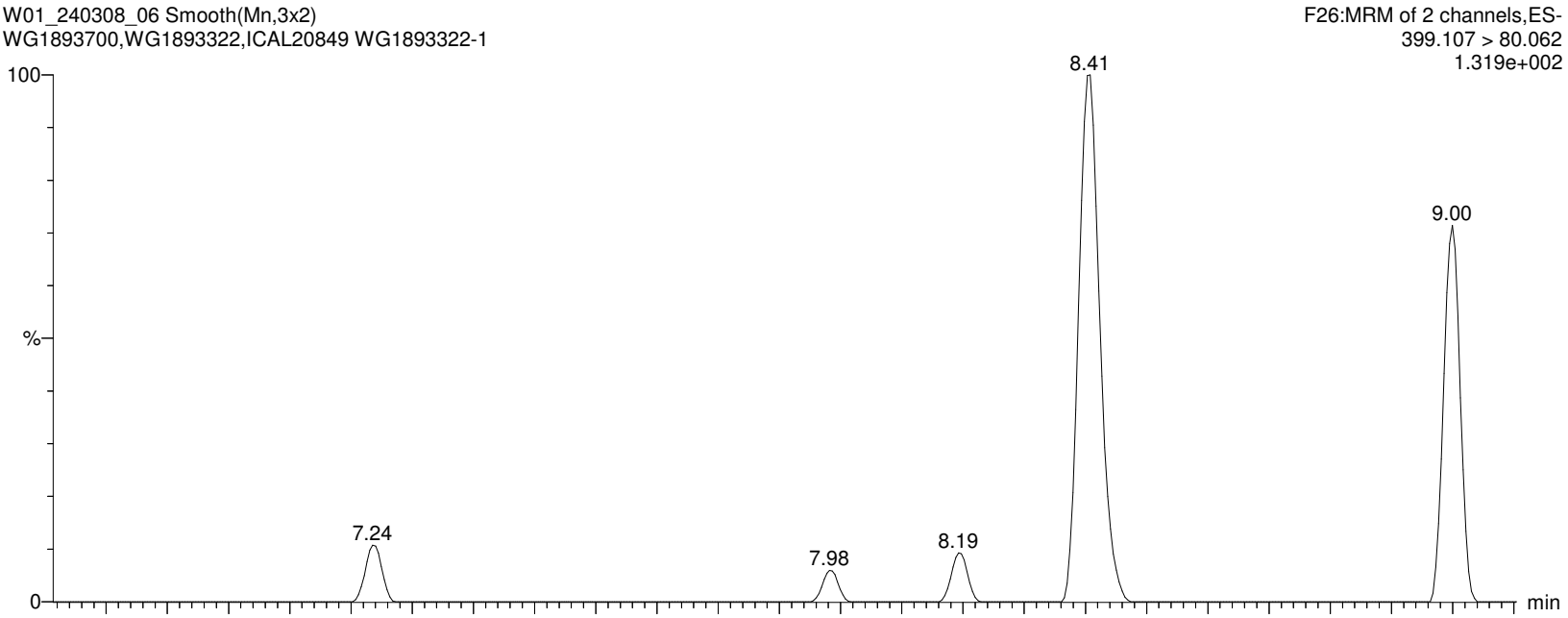

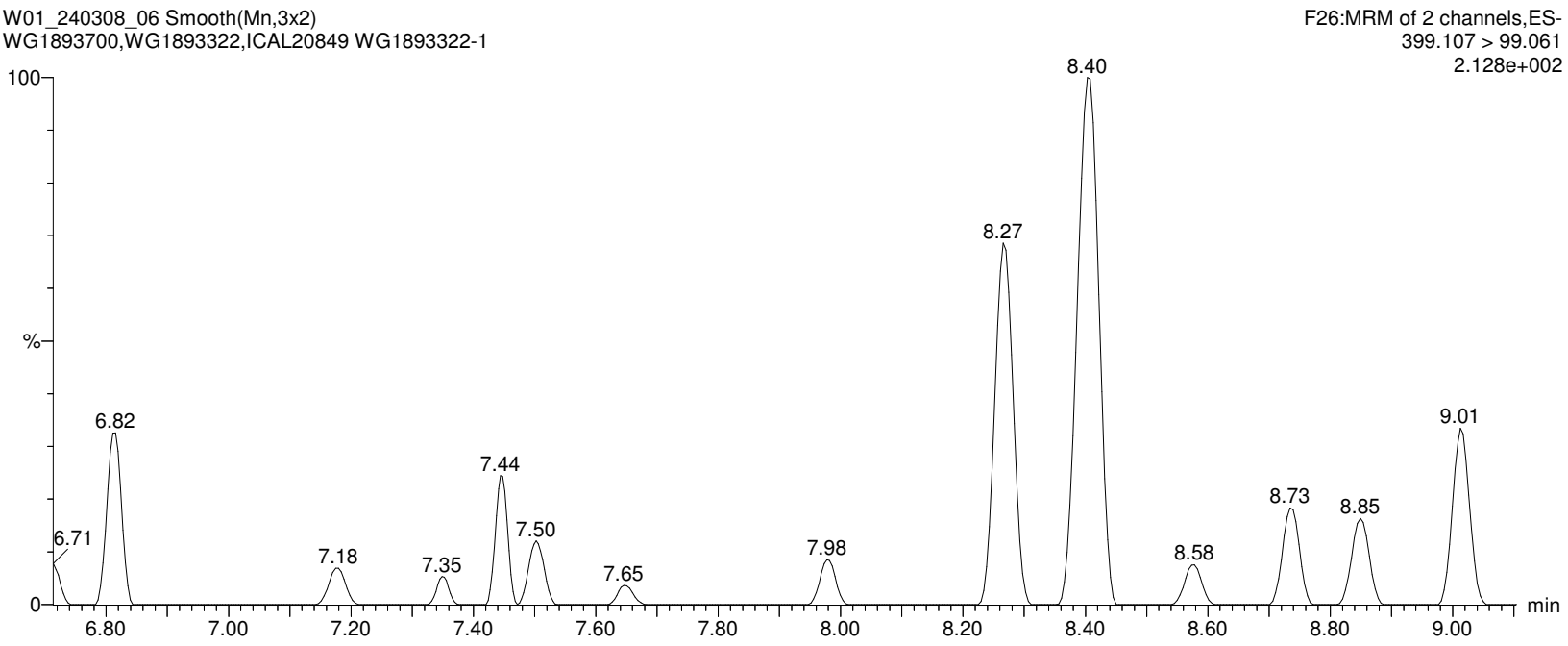

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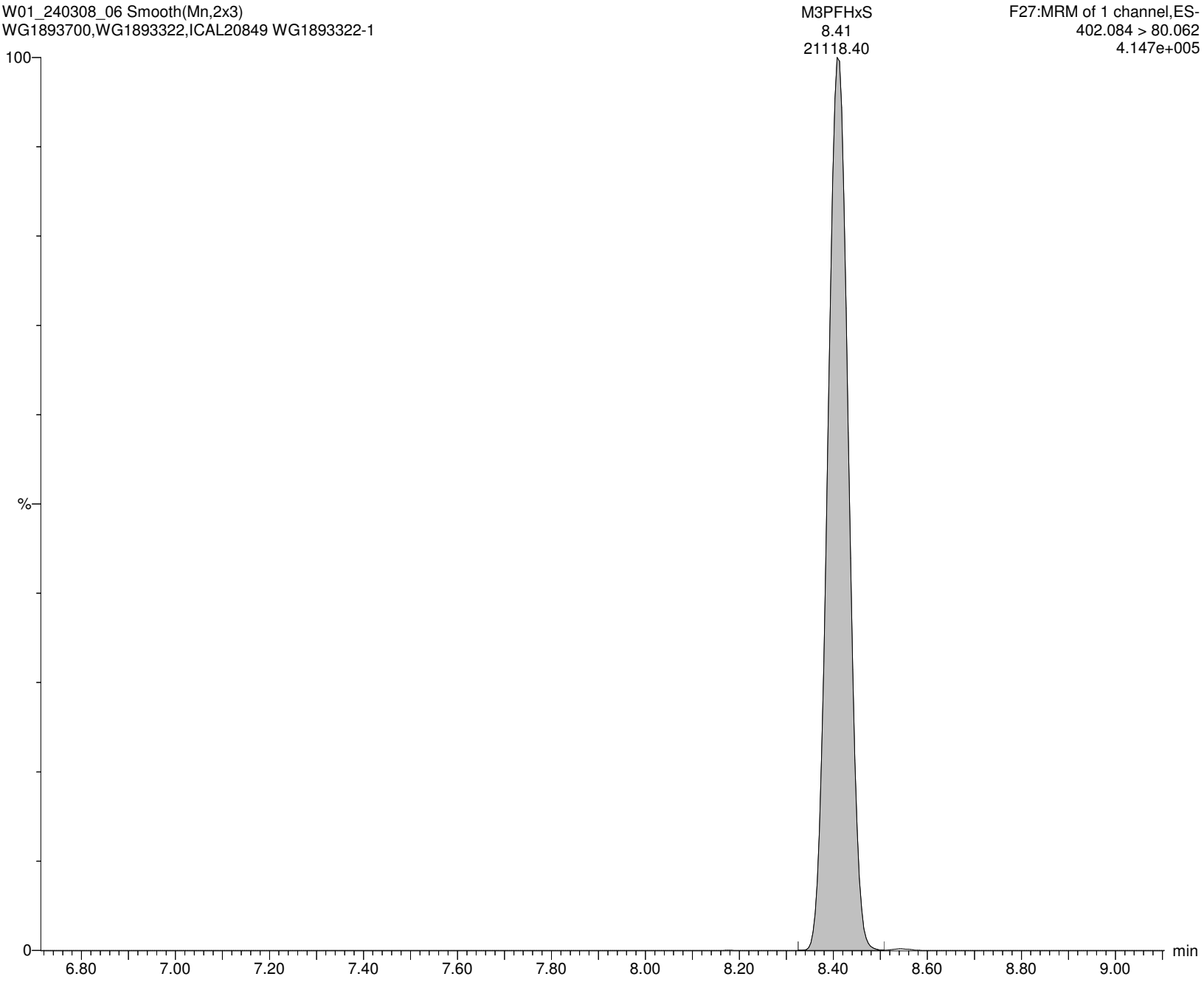

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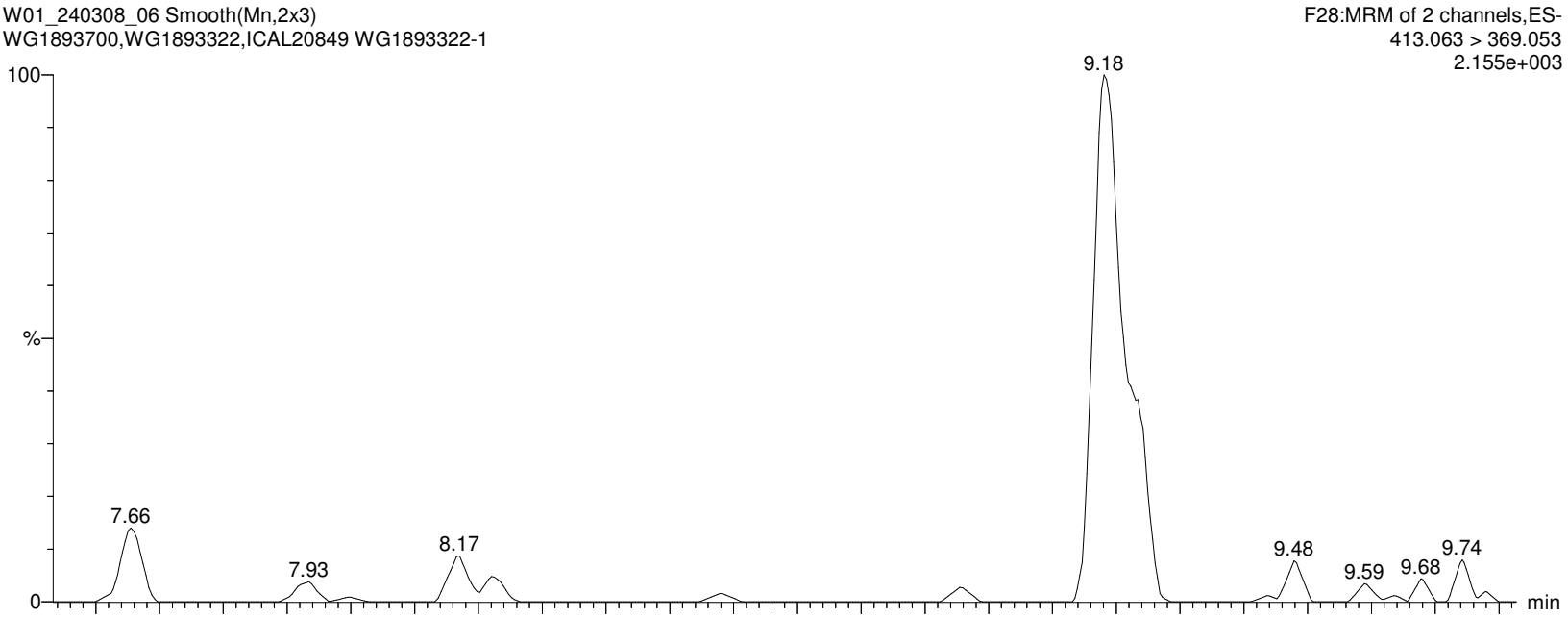

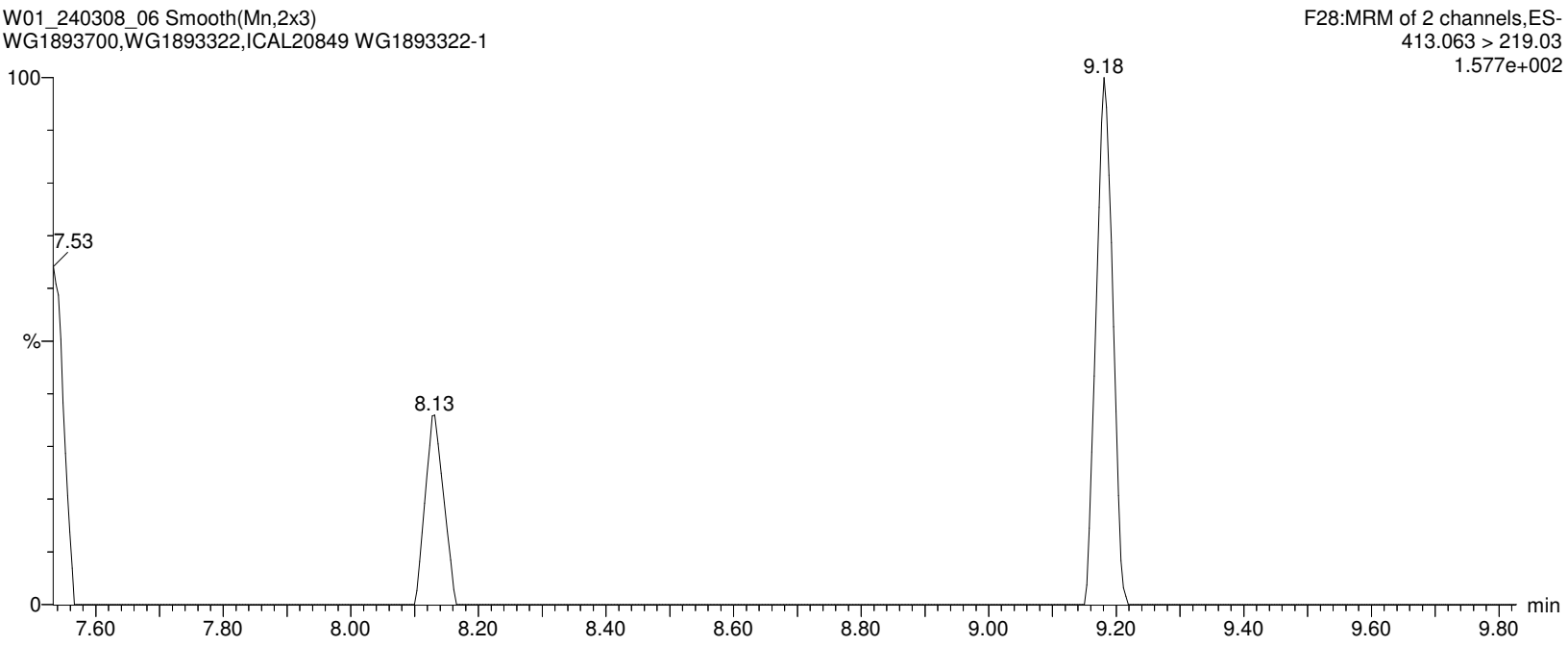

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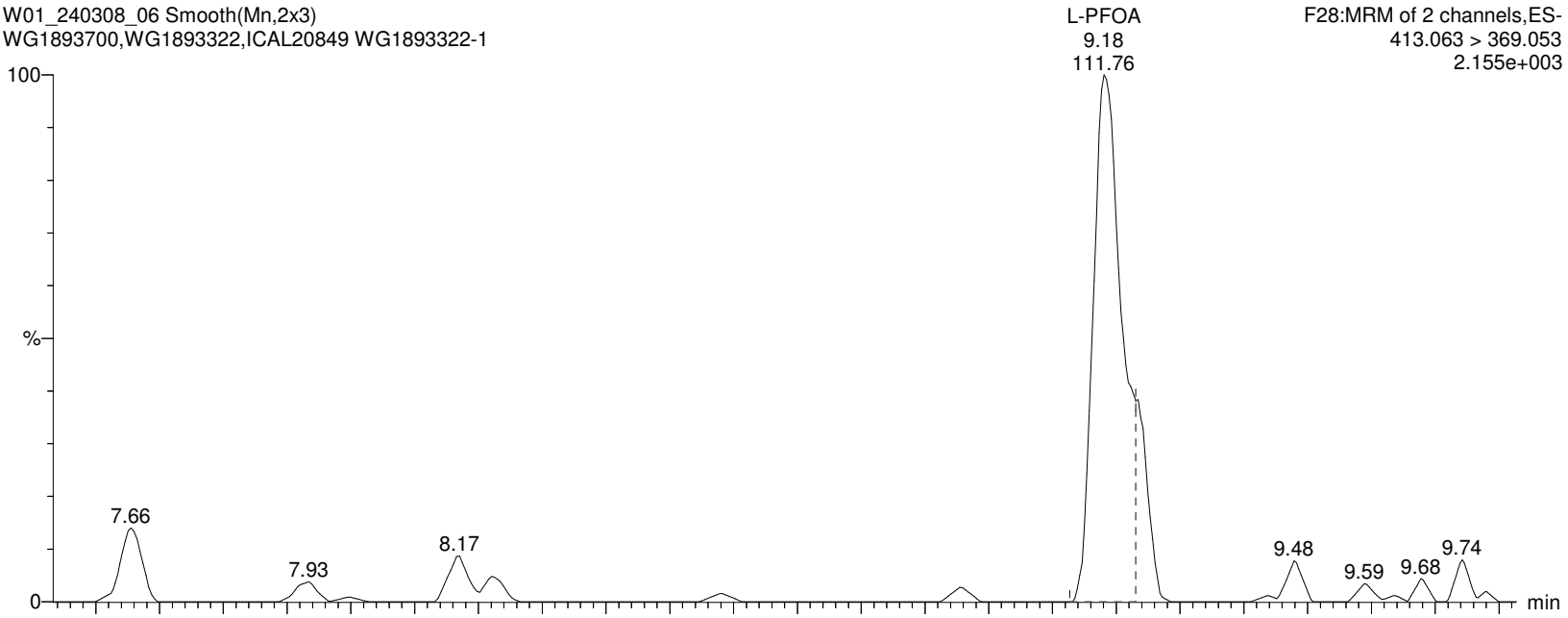

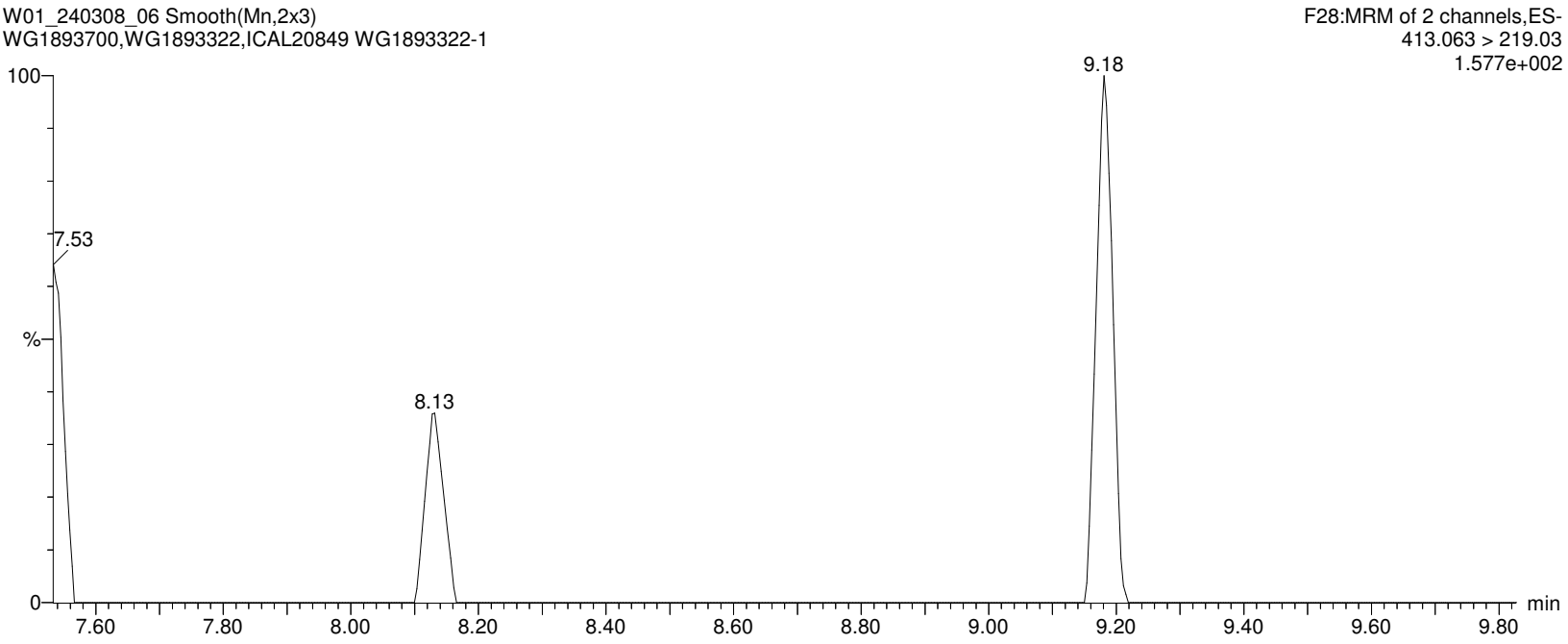

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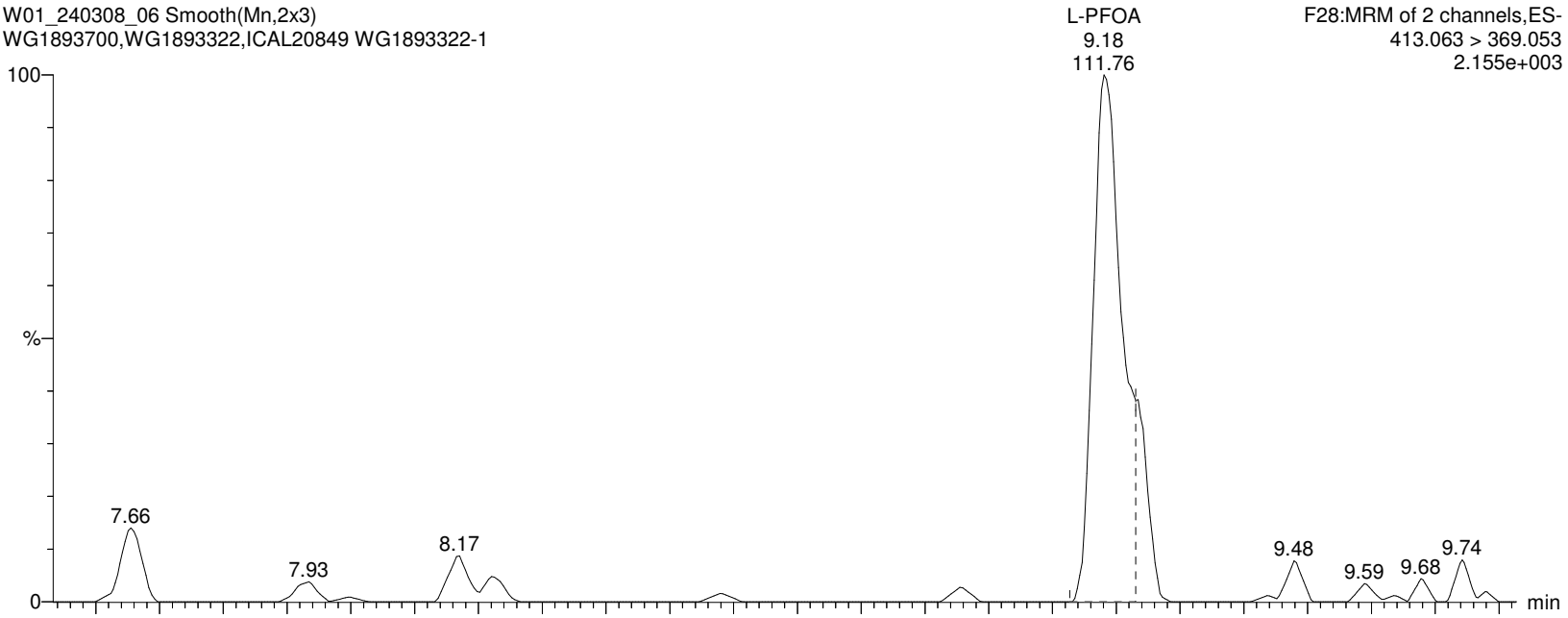

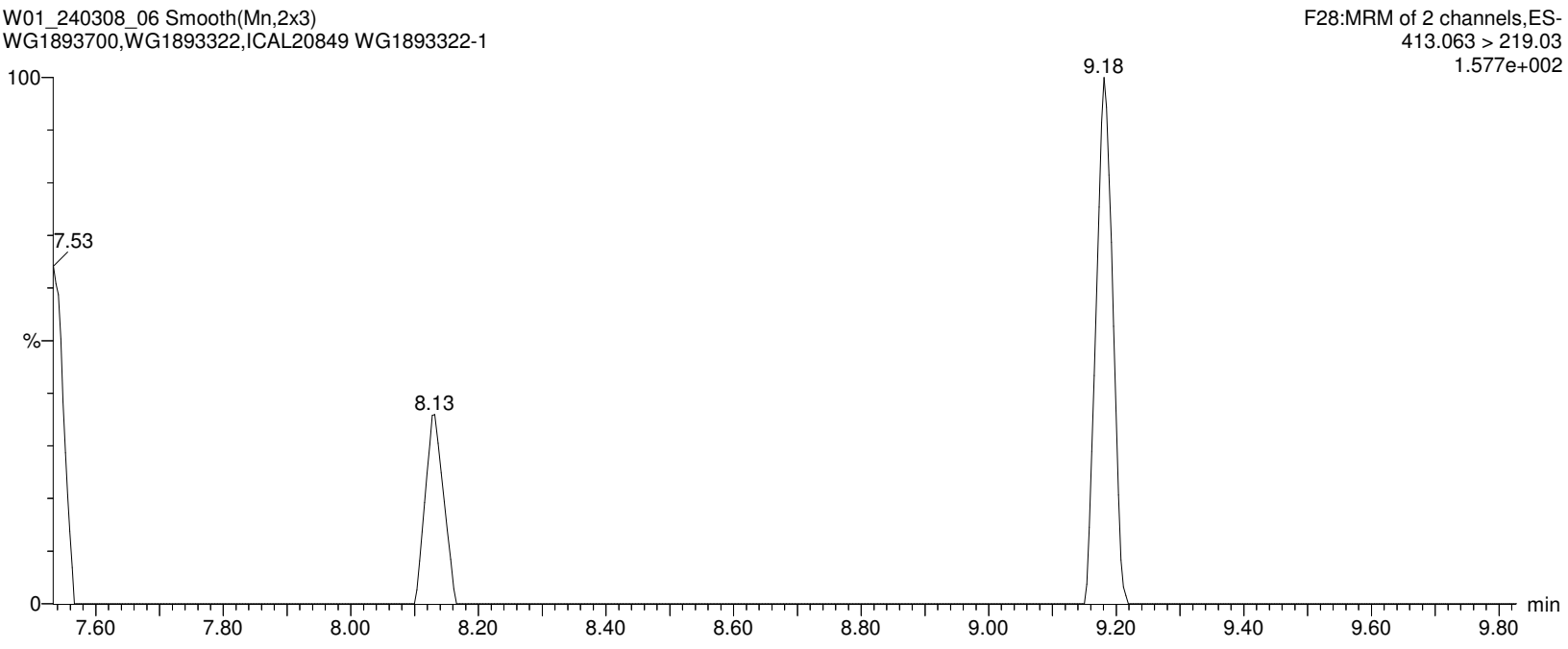

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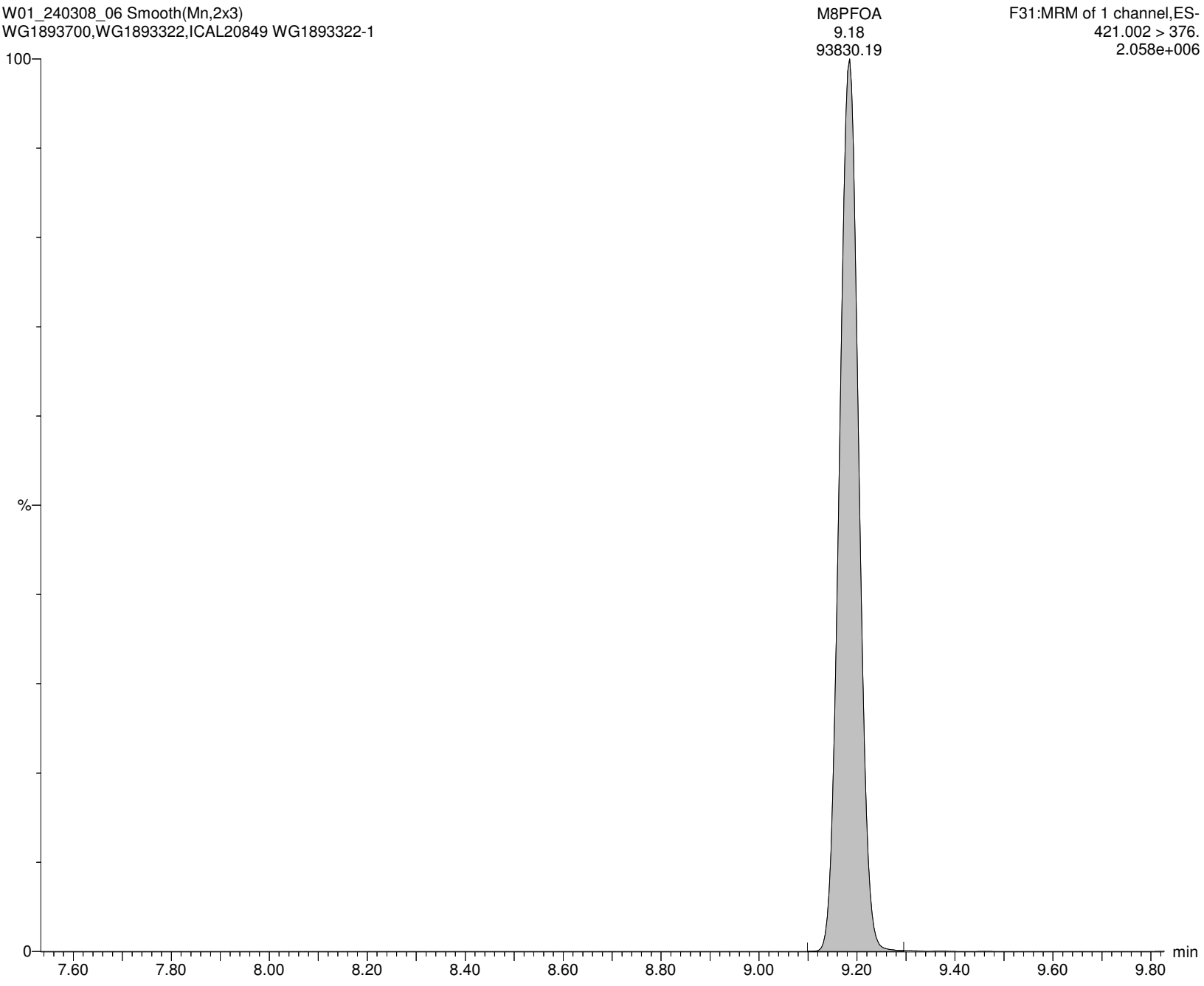

all concentration units in (ng/mL)

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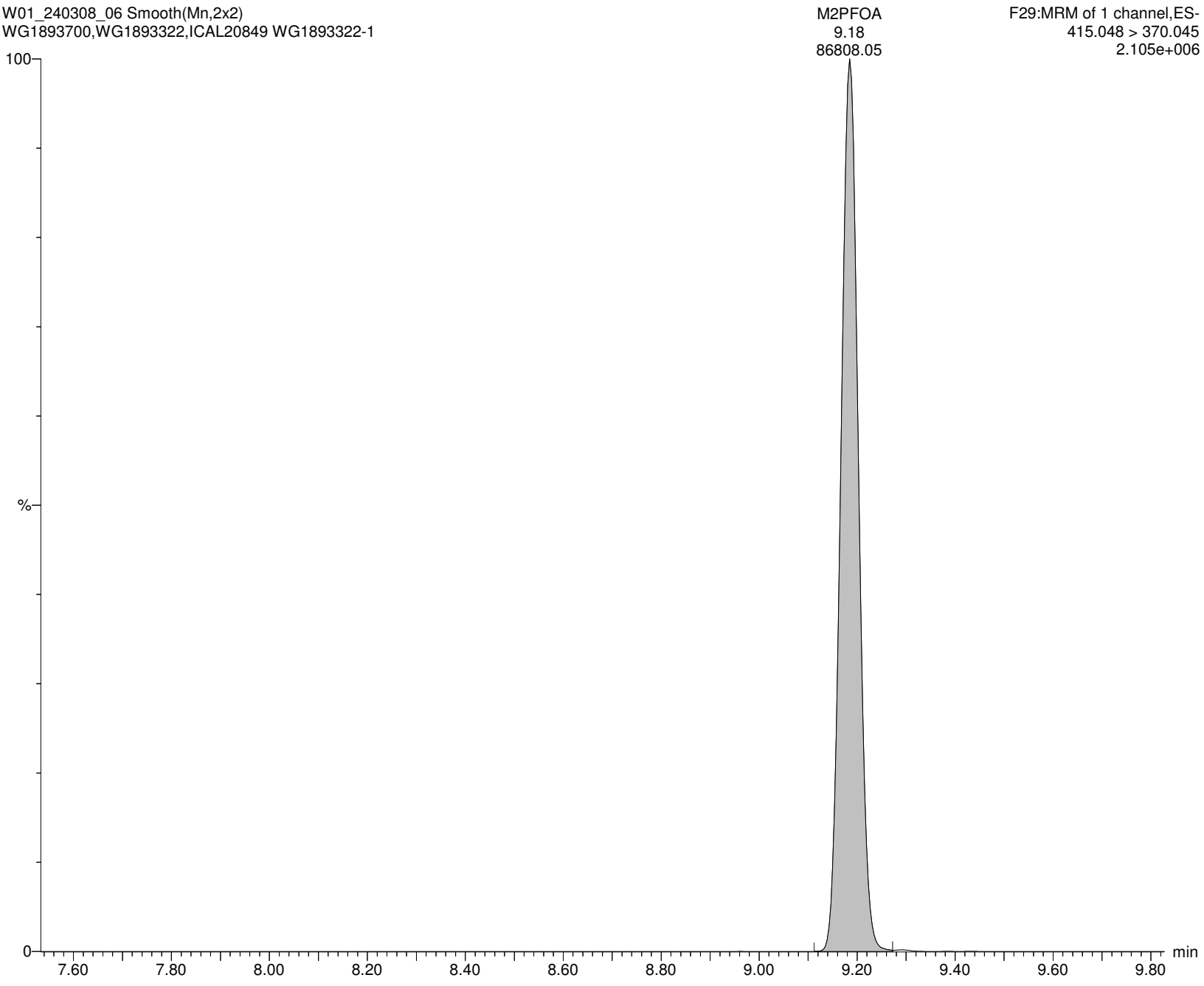

all concentration units in (ng/mL)

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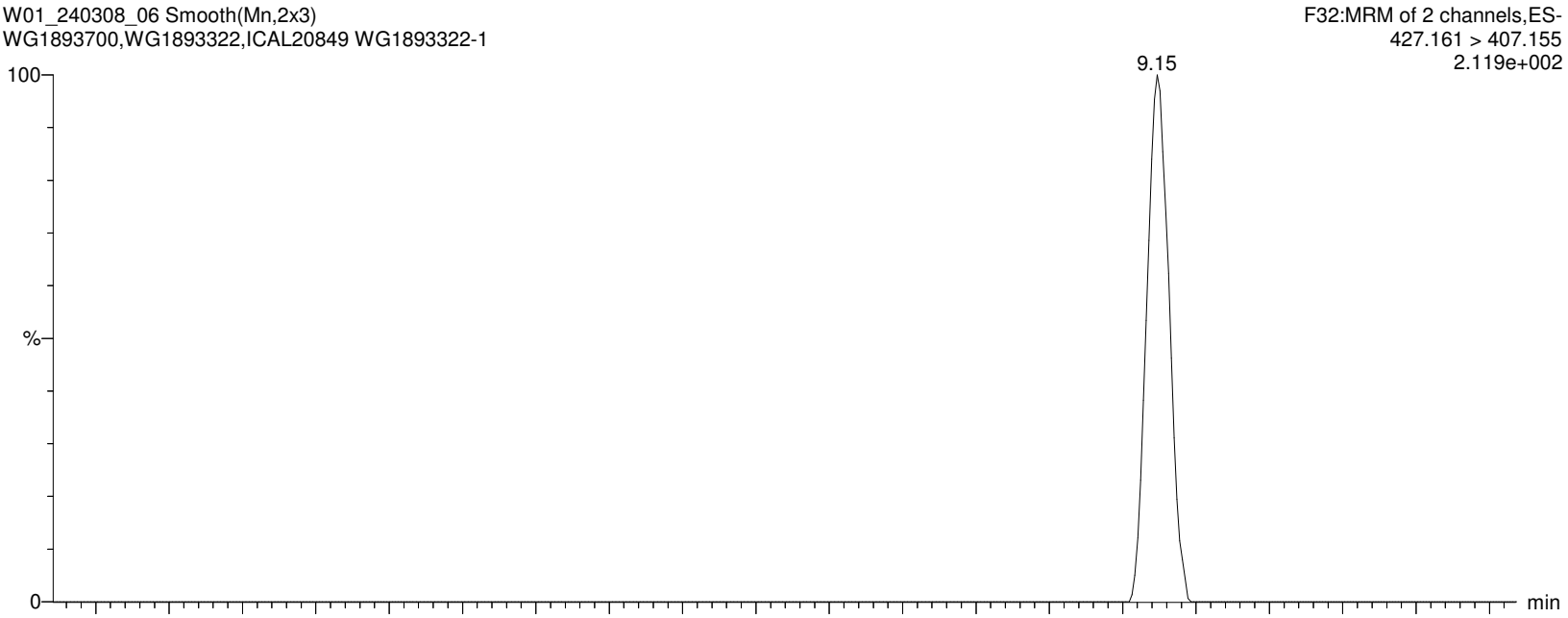

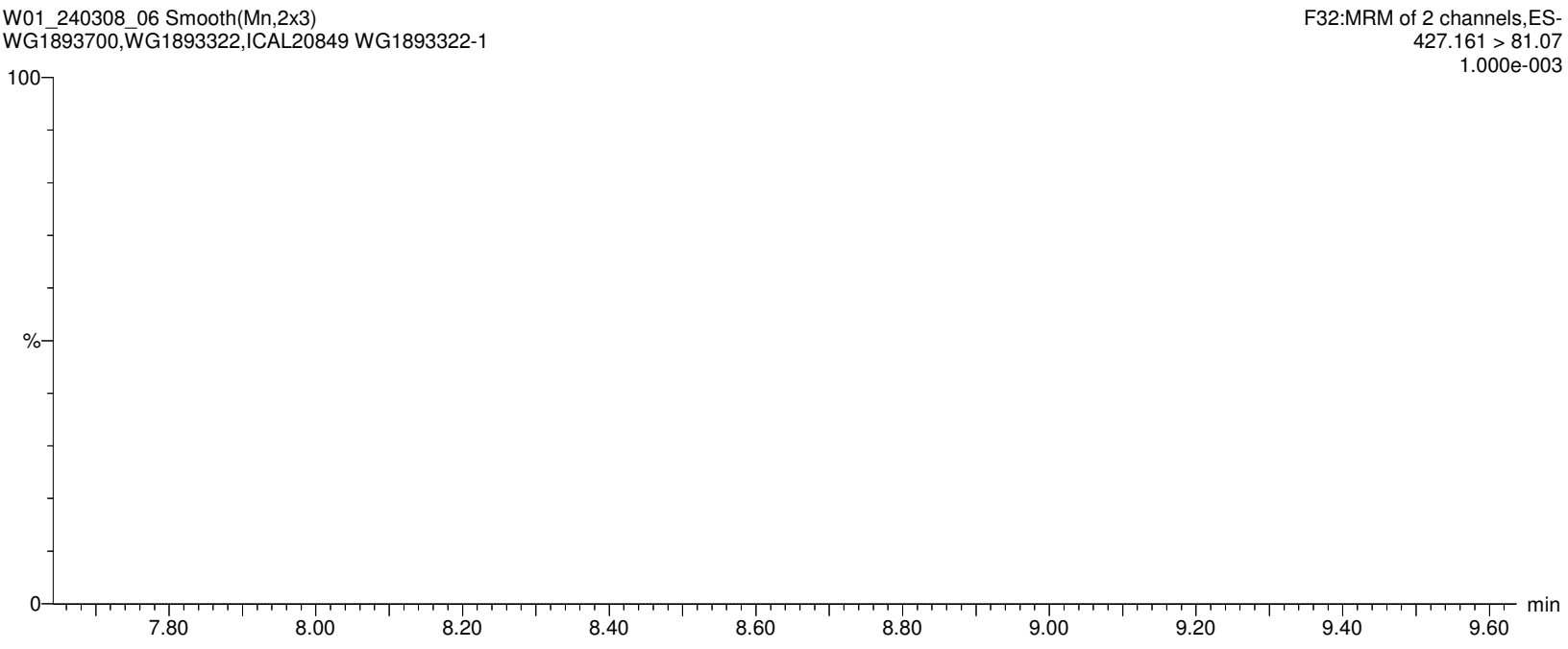

all concentration units in (ng/mL)

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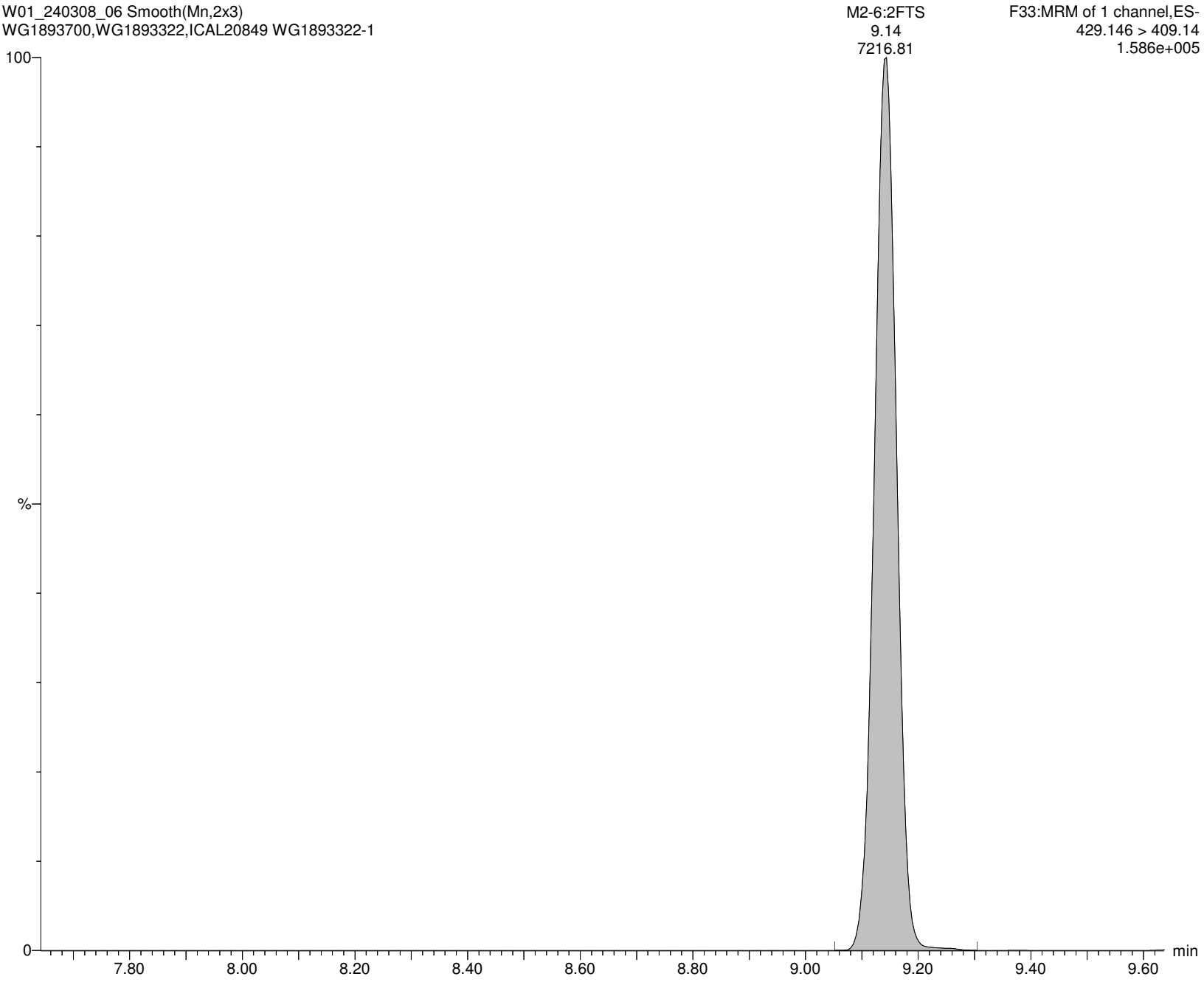

all concentration units in (ng/mL)

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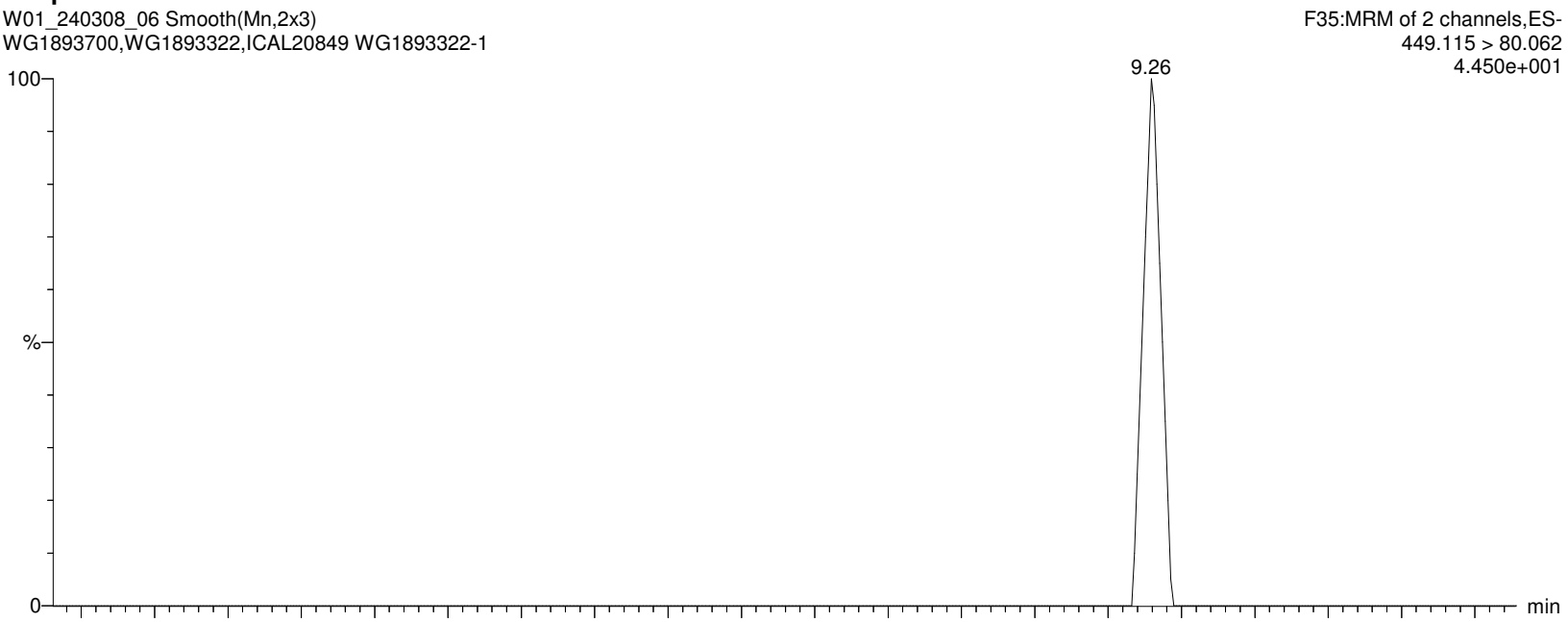

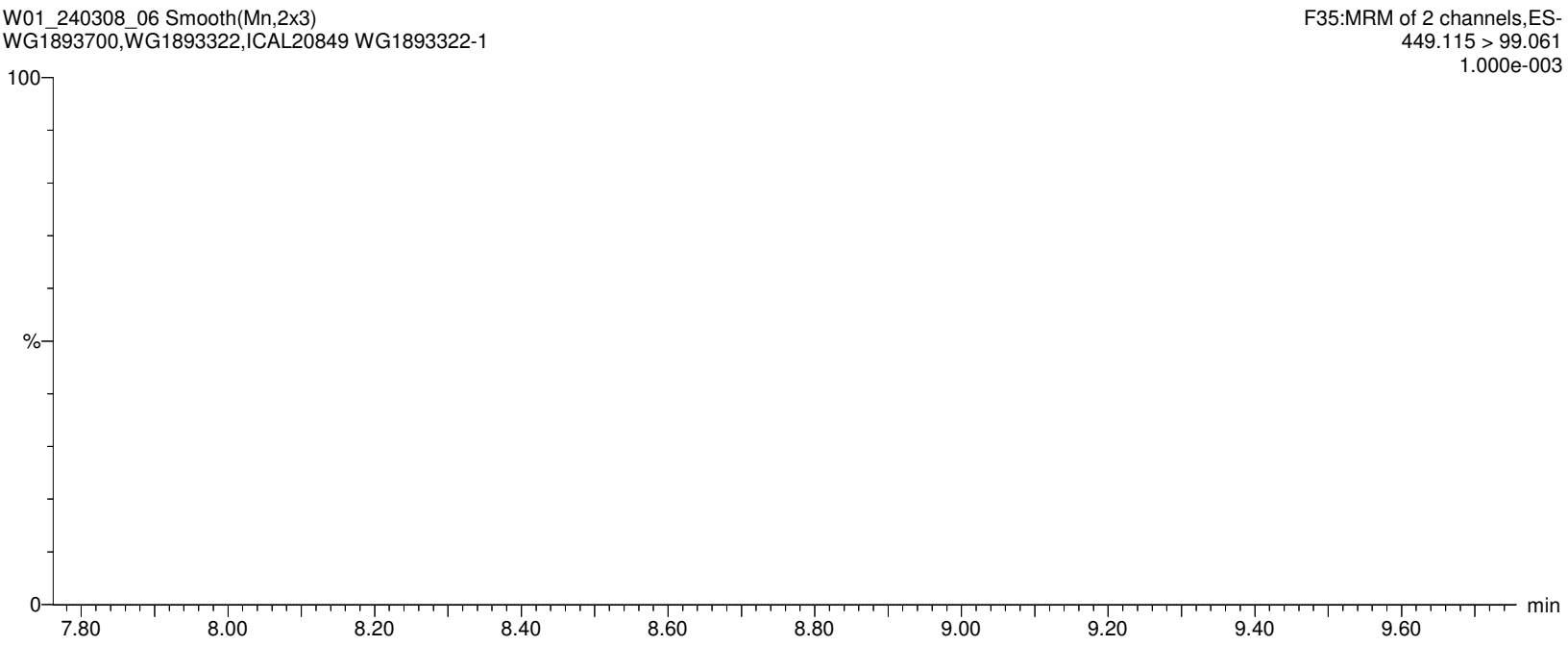

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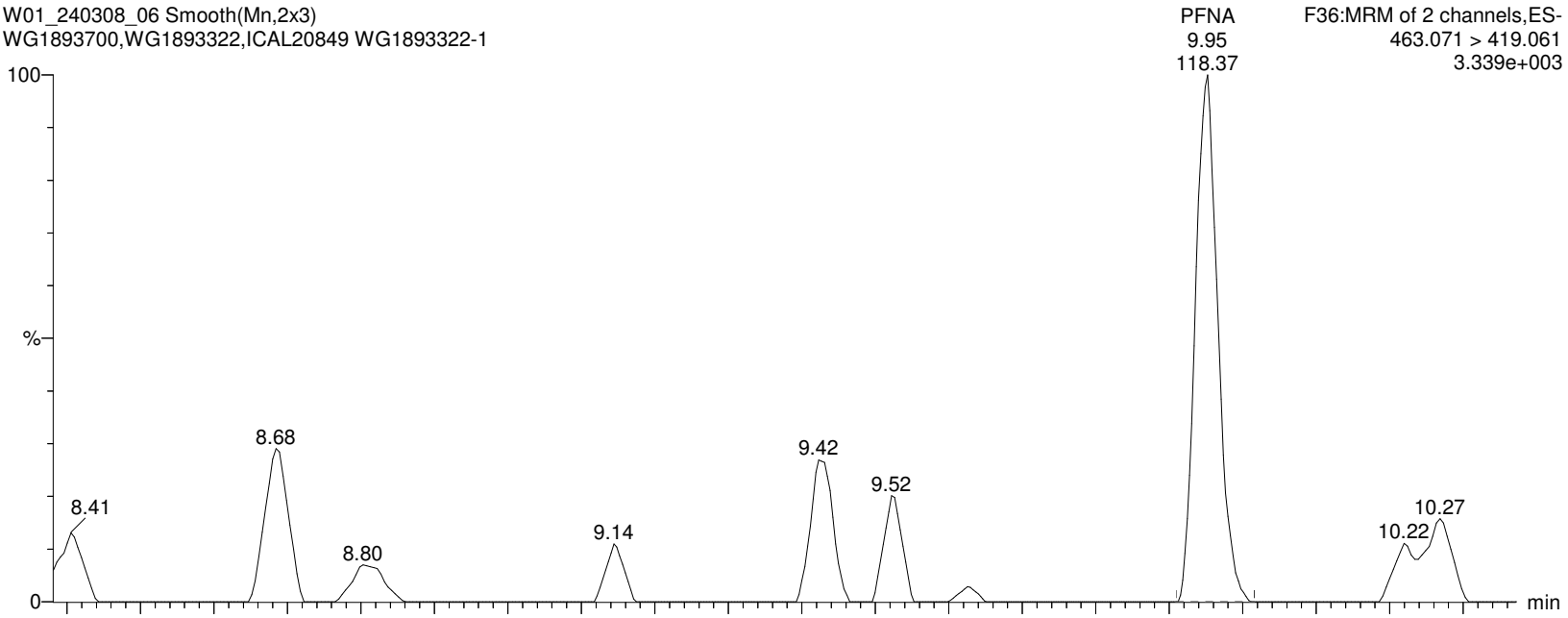

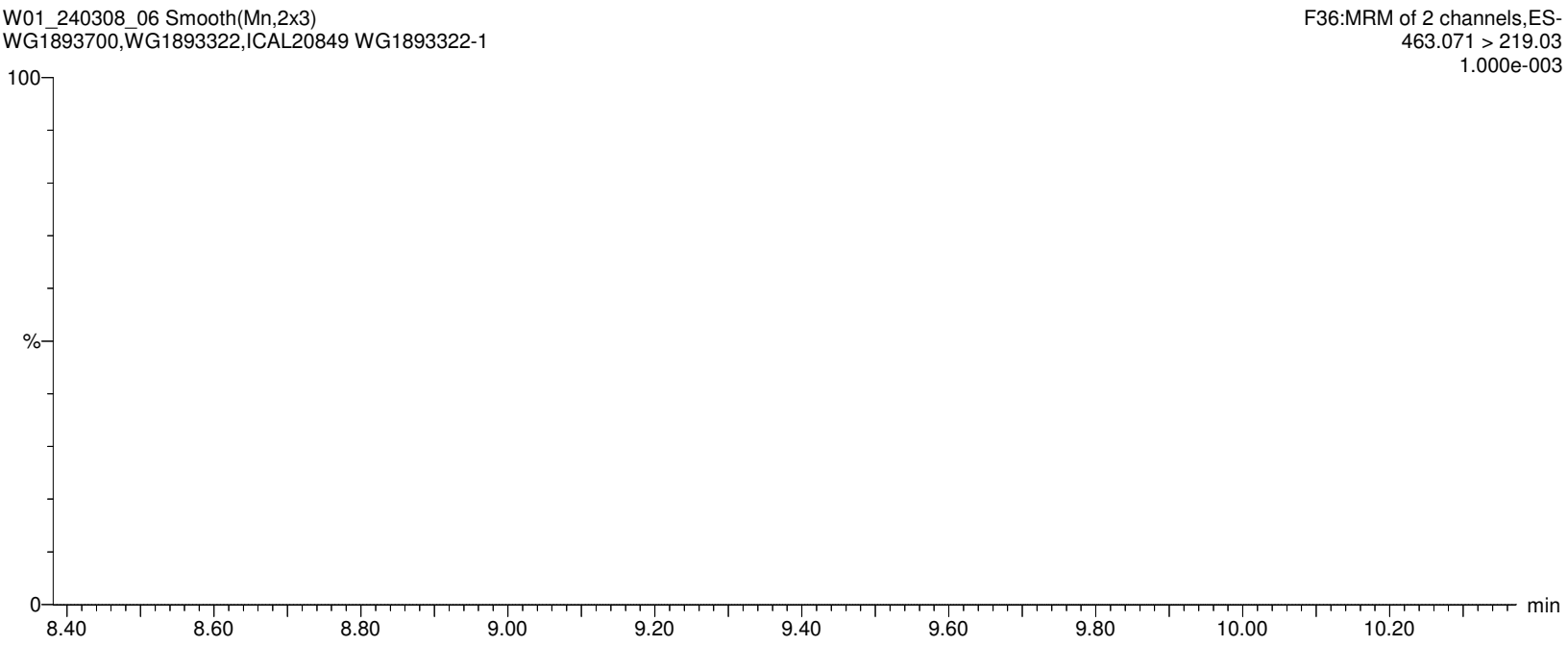

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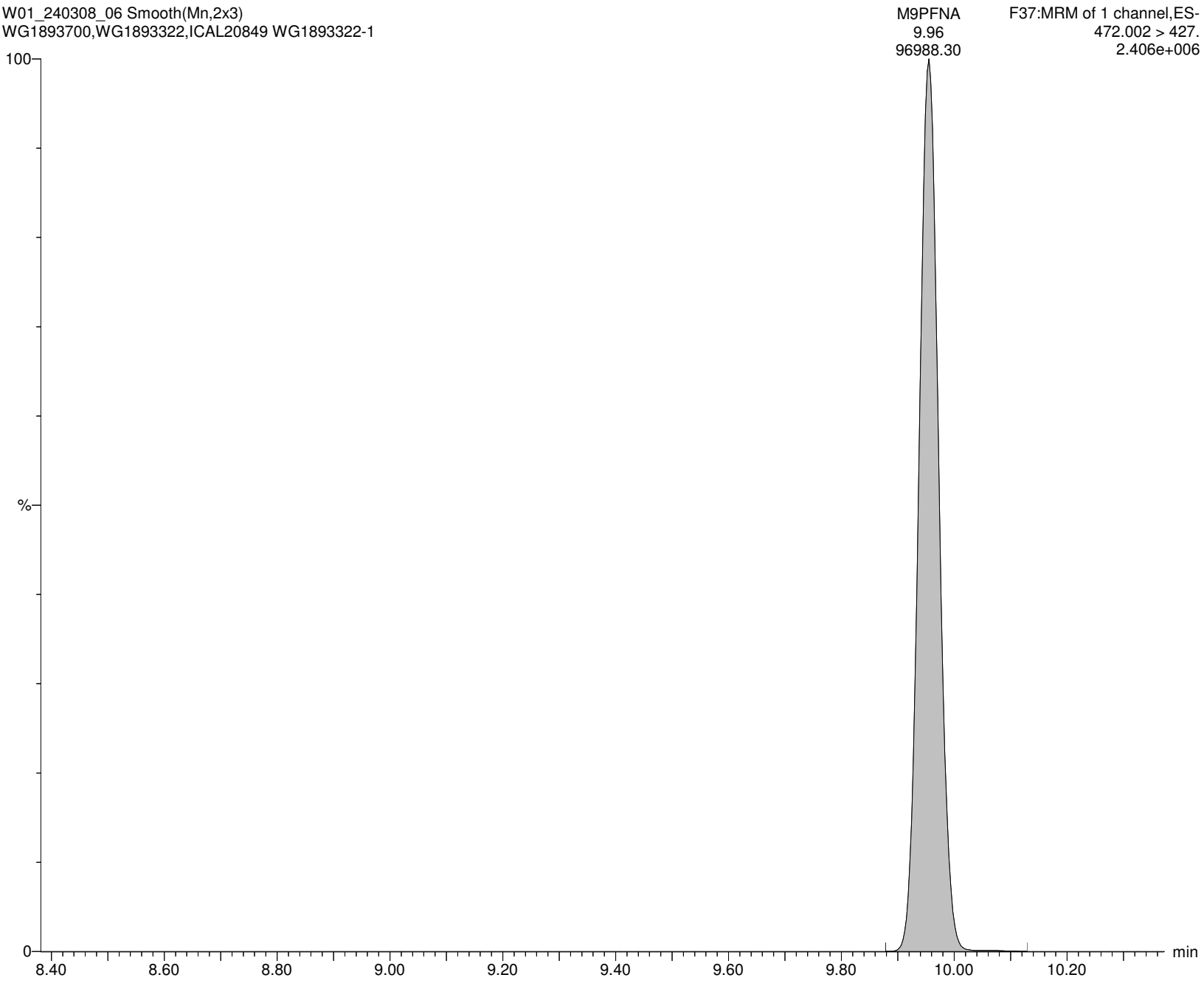

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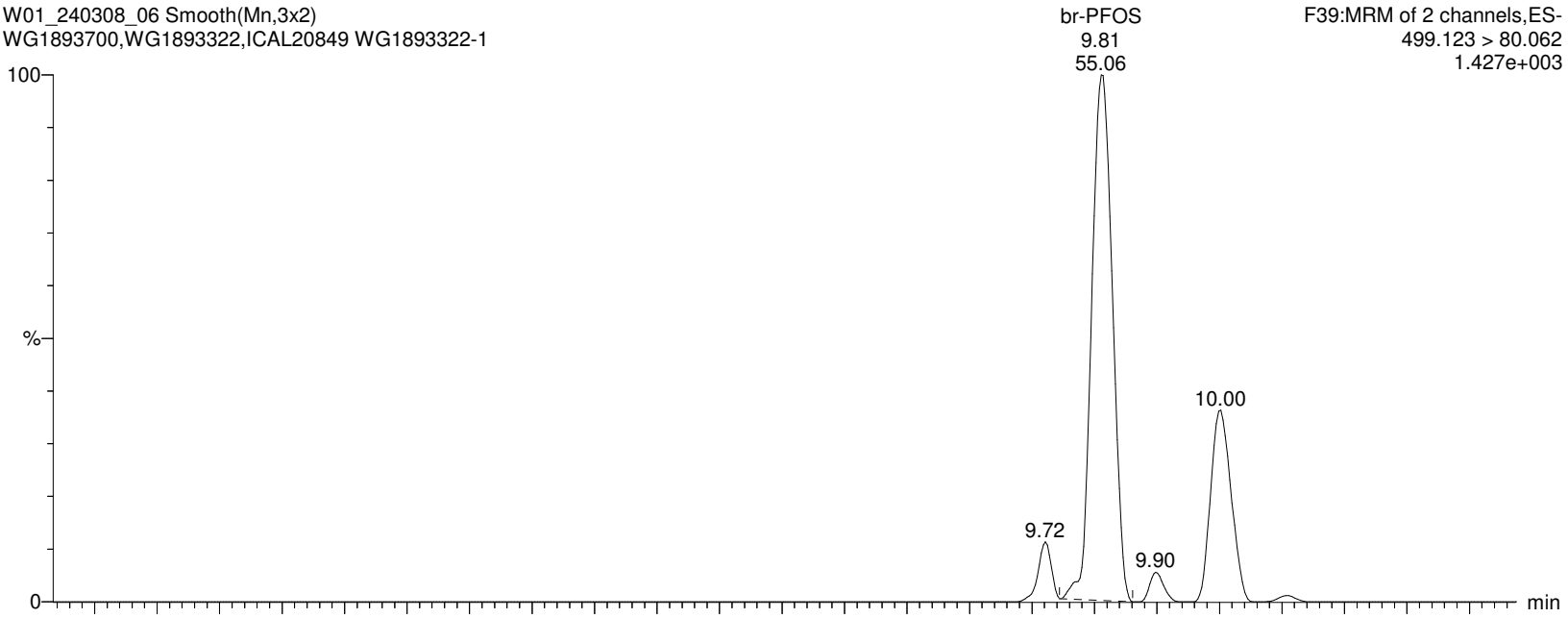

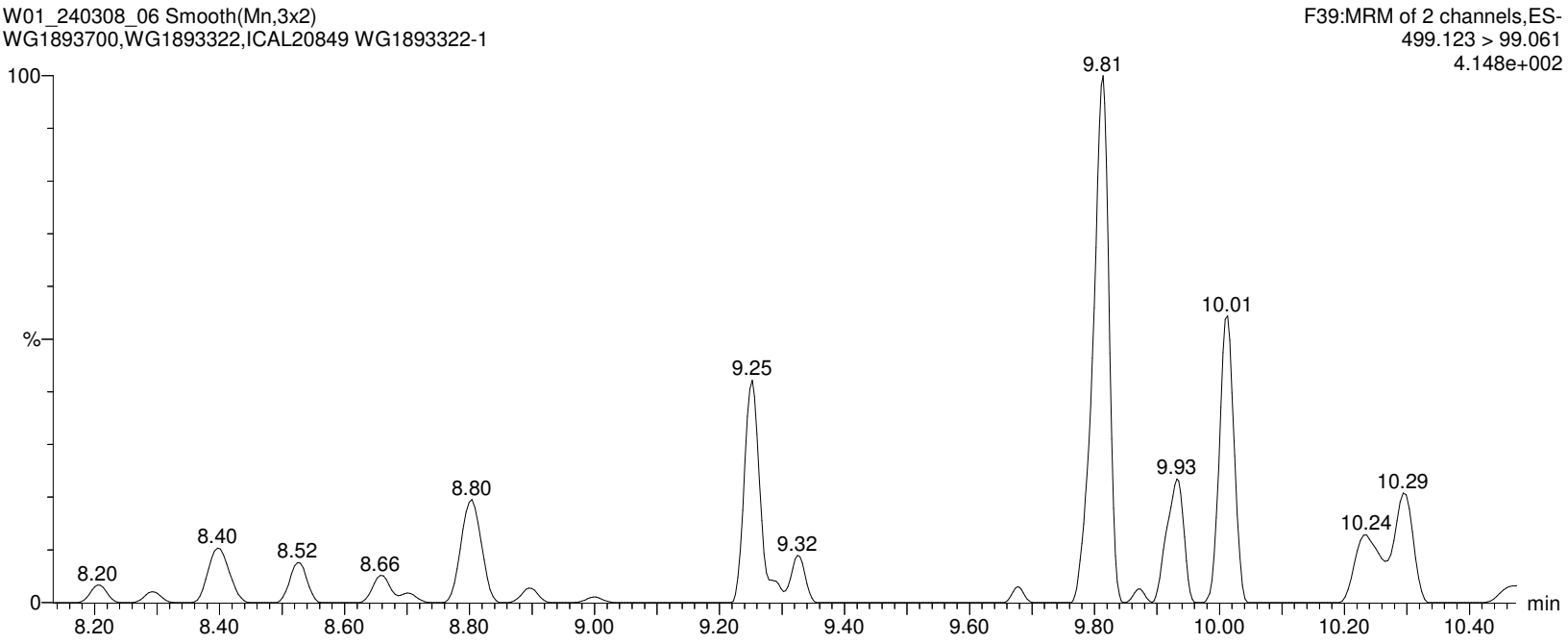

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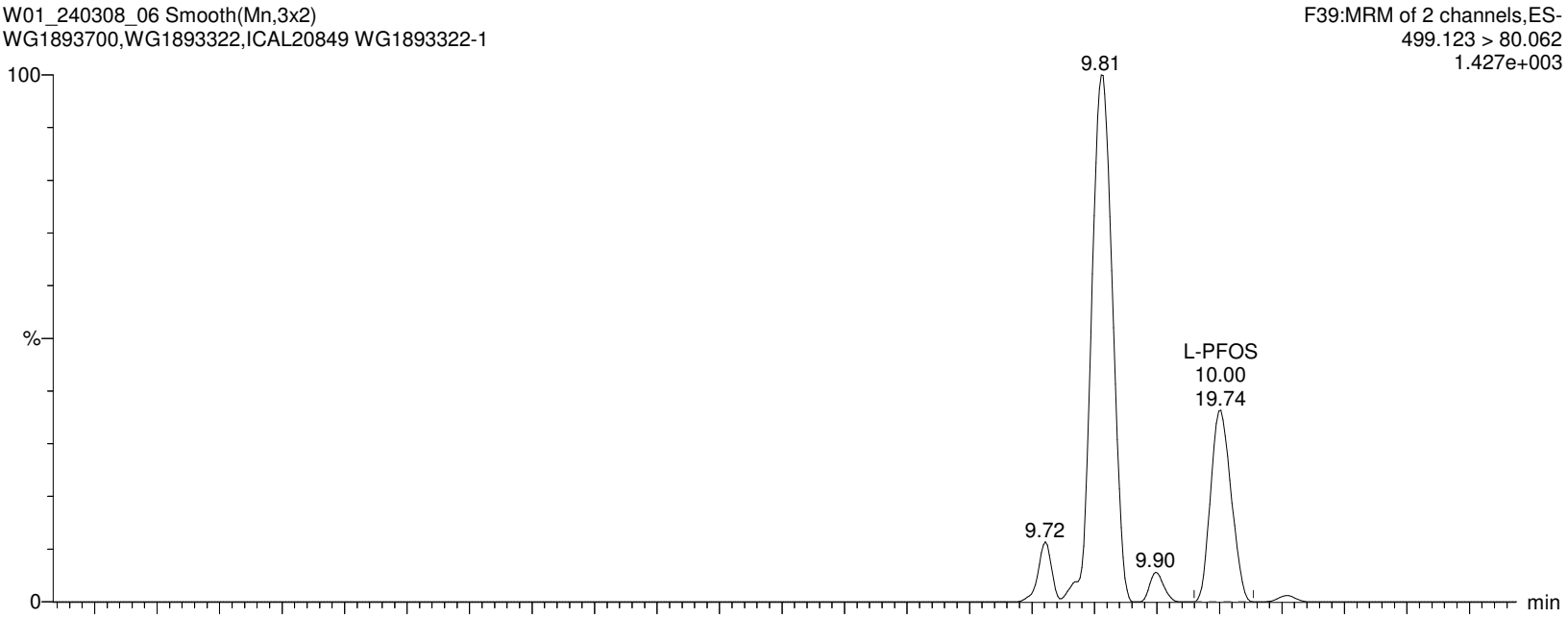
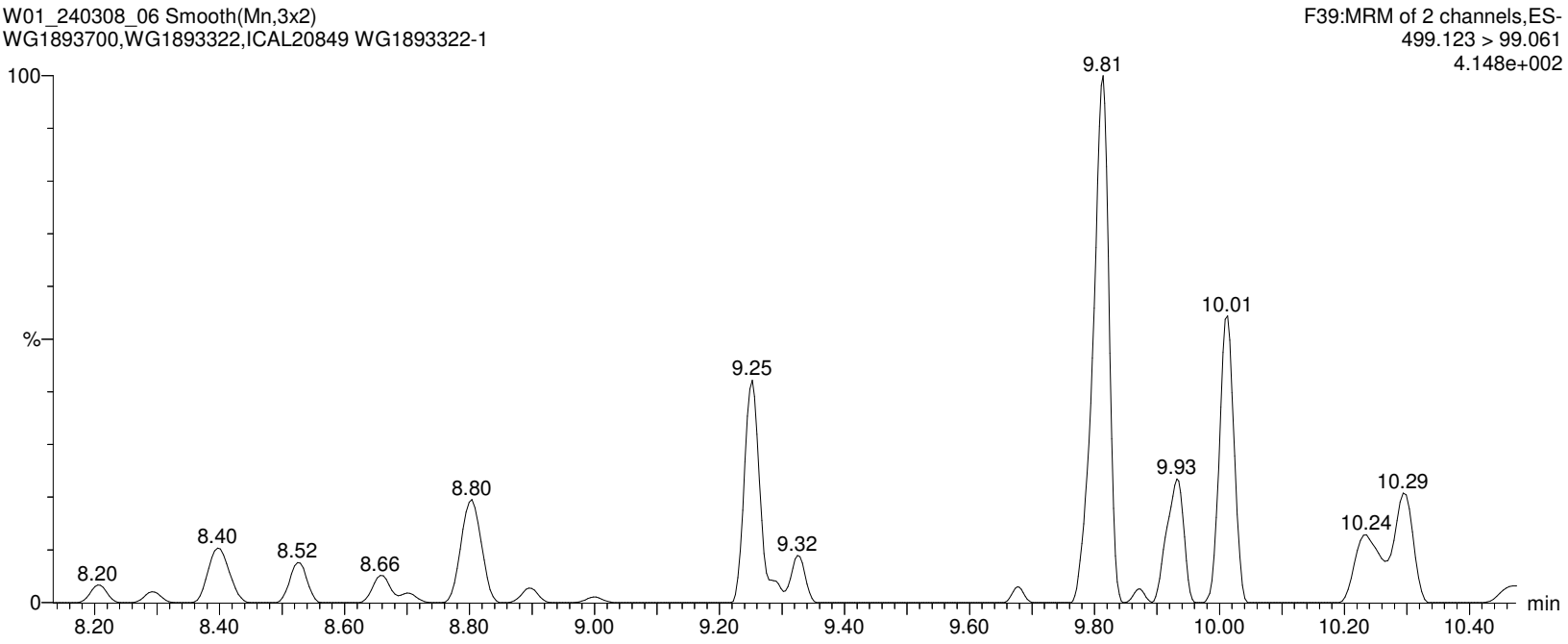
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:33 Eastern Standard Time

Name: W01_240308_06
ID: WG1893322-1
Date: 08-Mar-2024
Time: 06:26:32
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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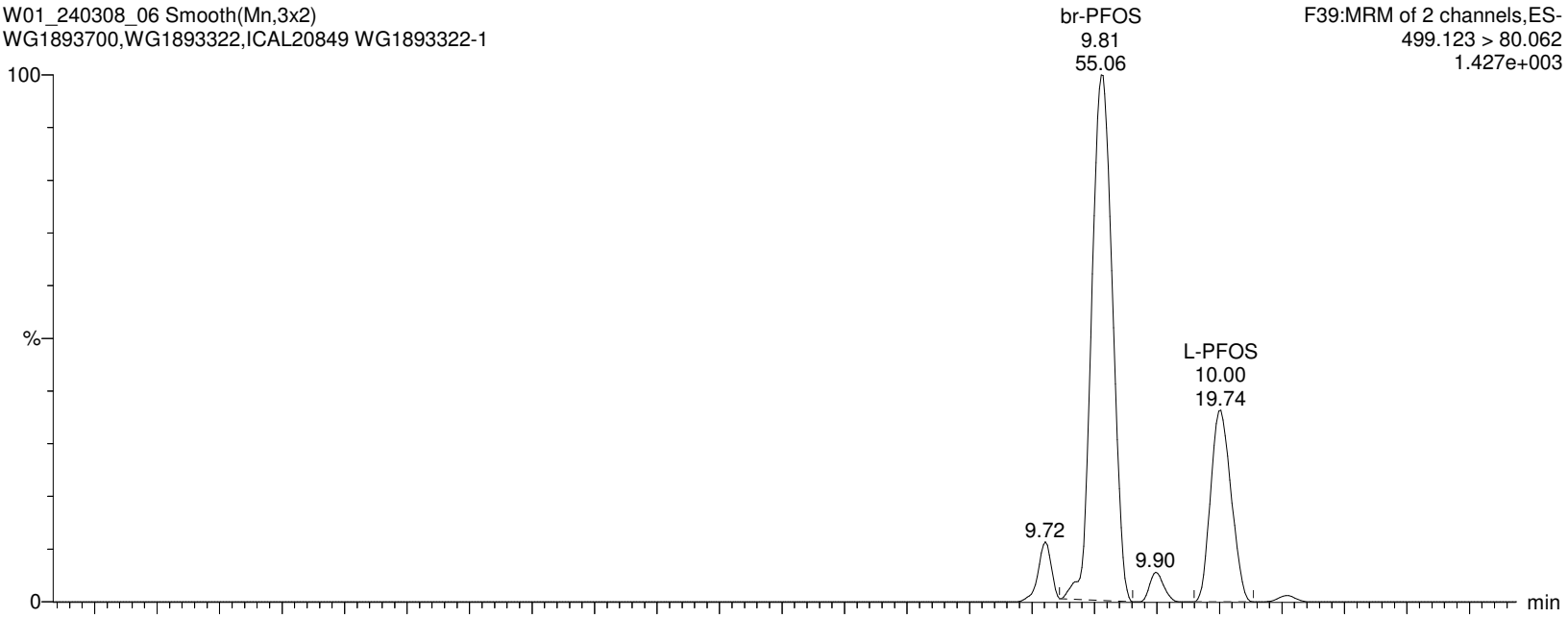

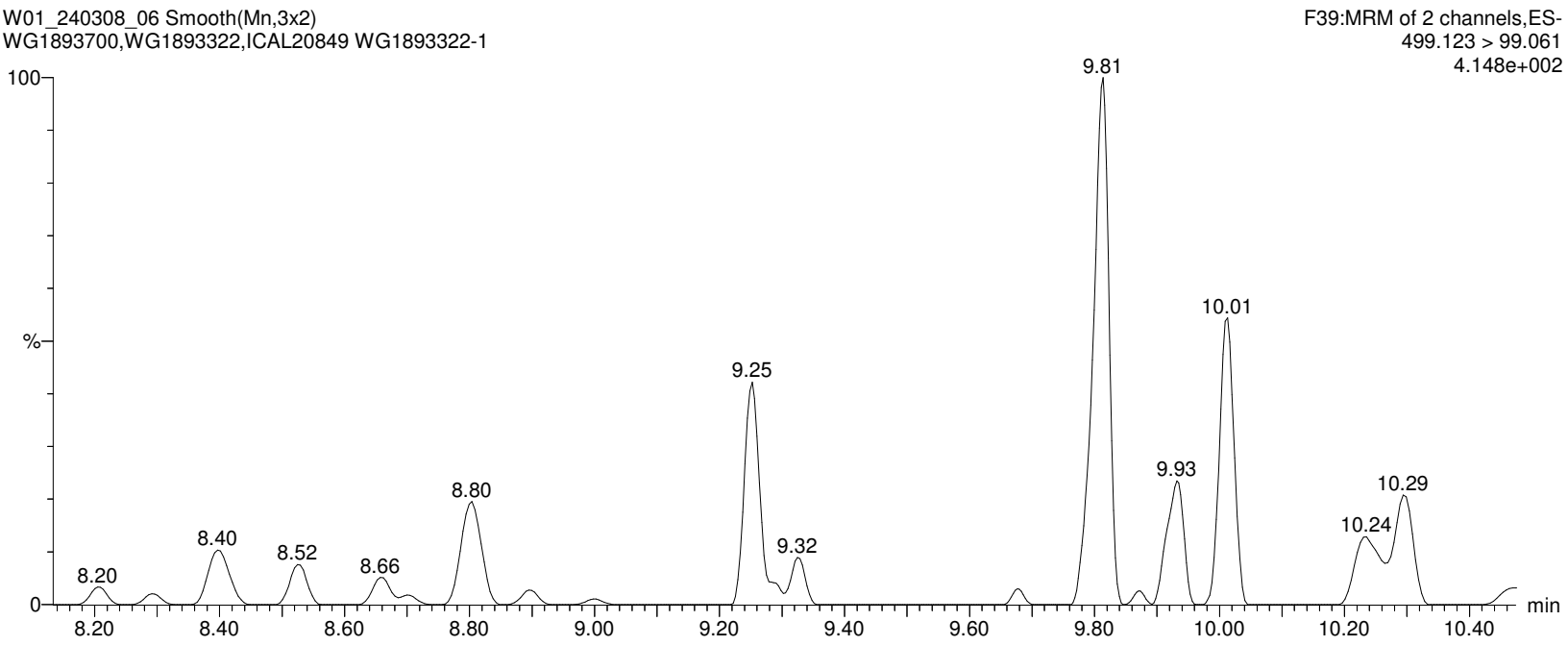

all concentration units in (ng/mL)

Alpha Analytical Inc.
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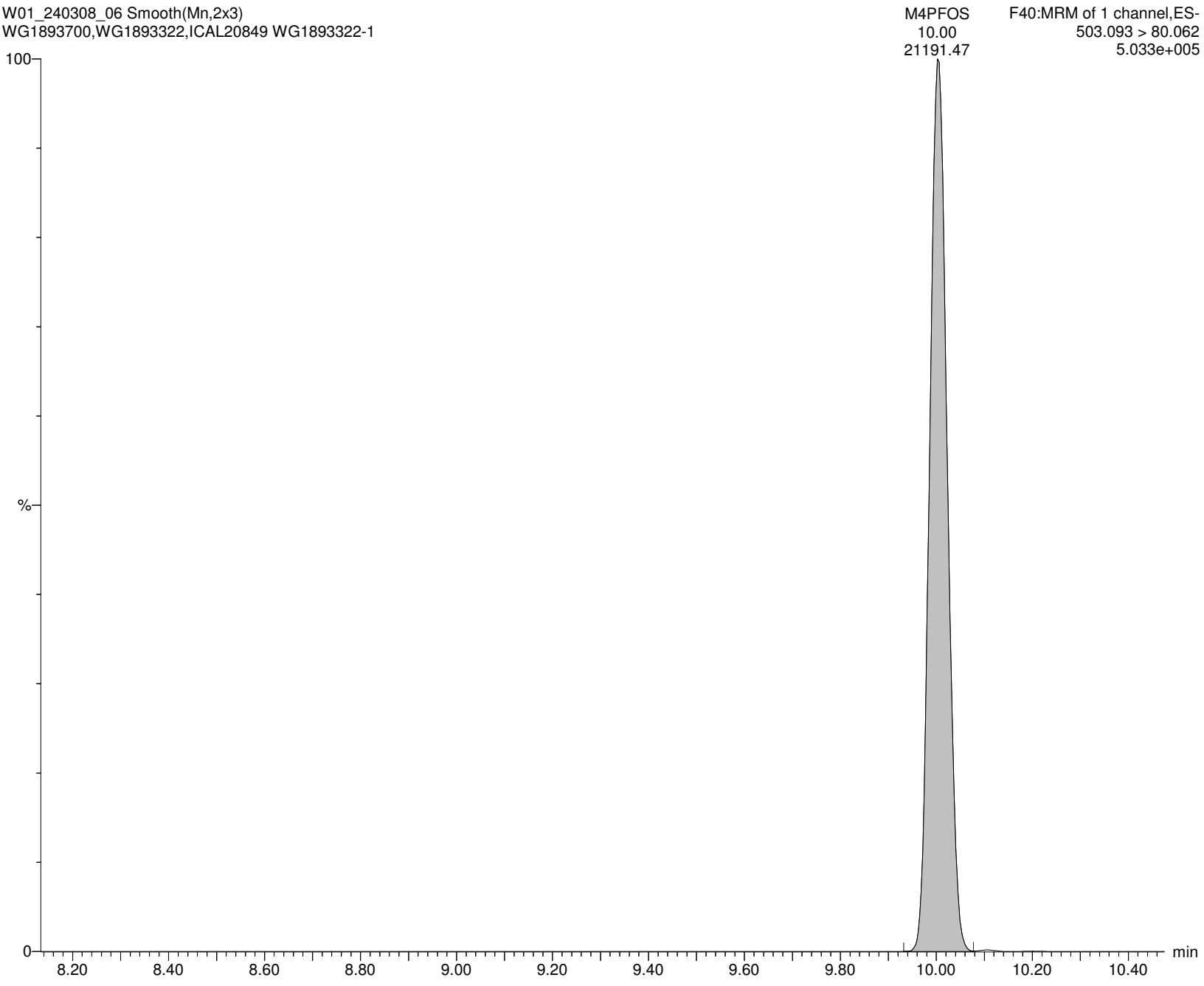
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,1
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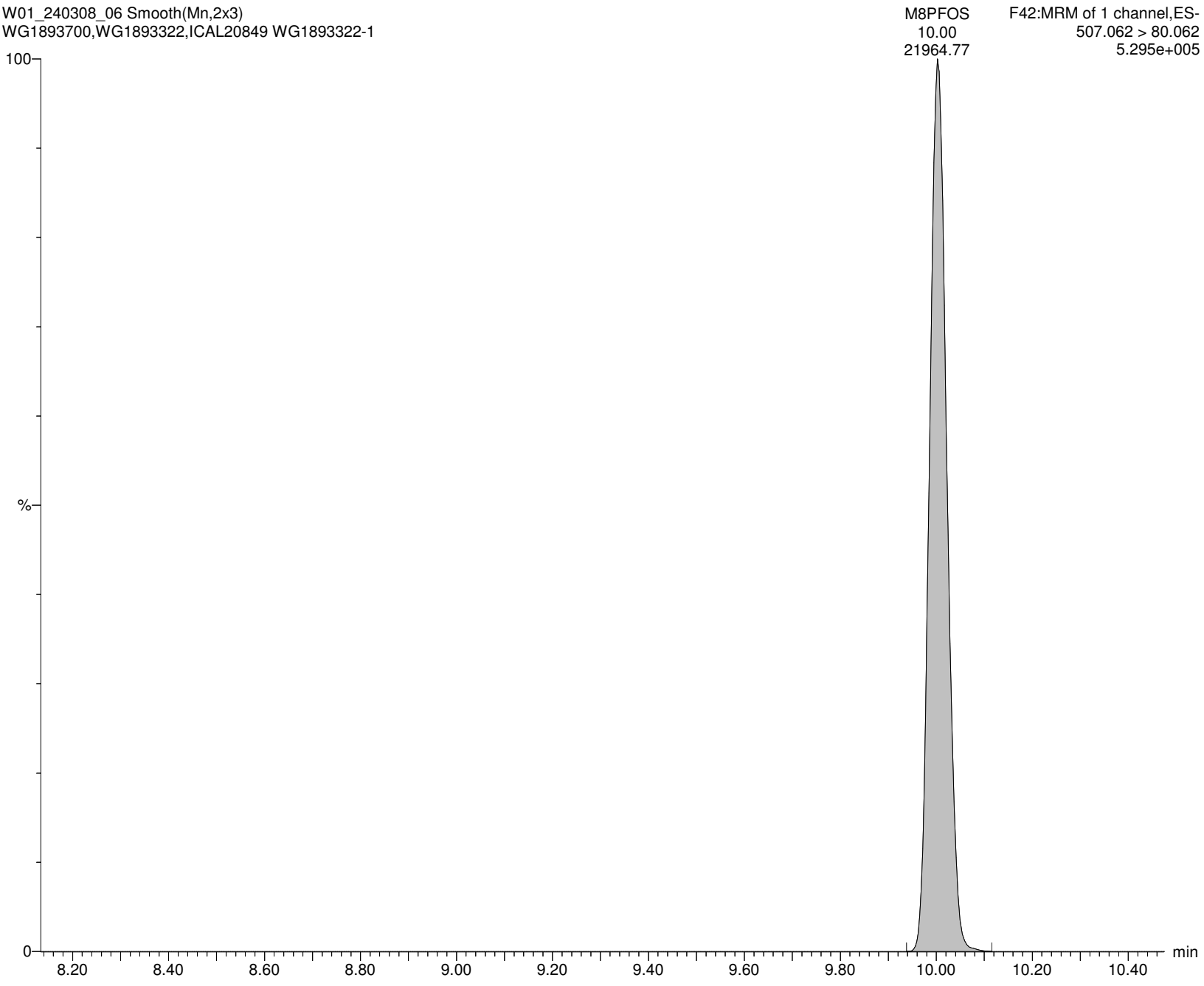
M8PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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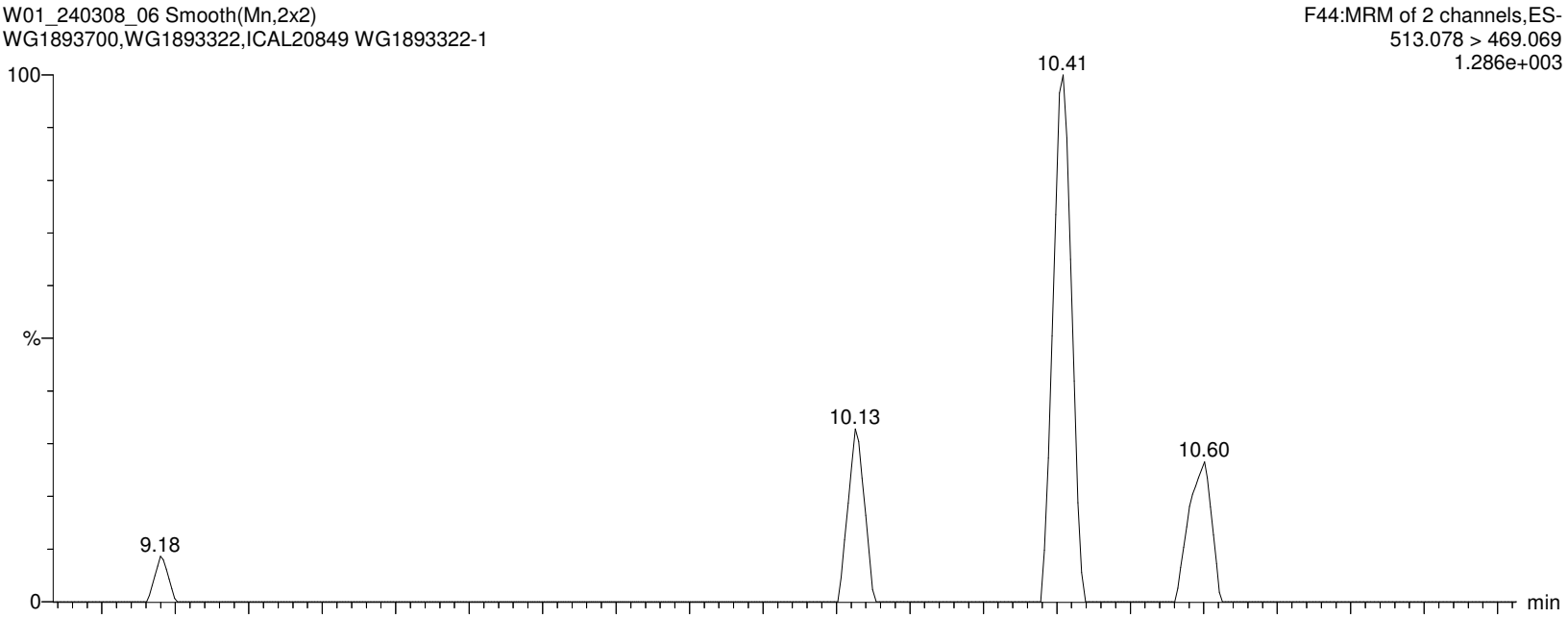
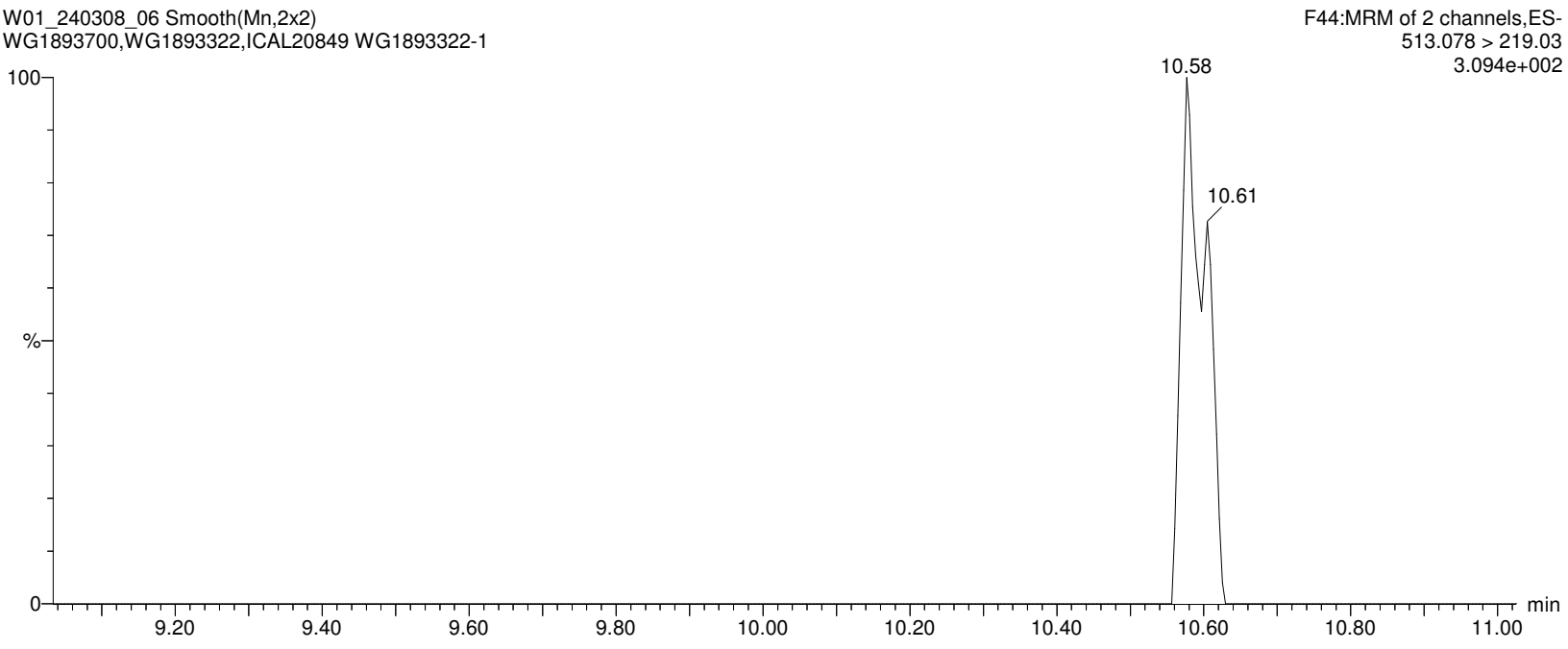
PFDA





all concentration units in (ng/mL)

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Vial: 1:B,1
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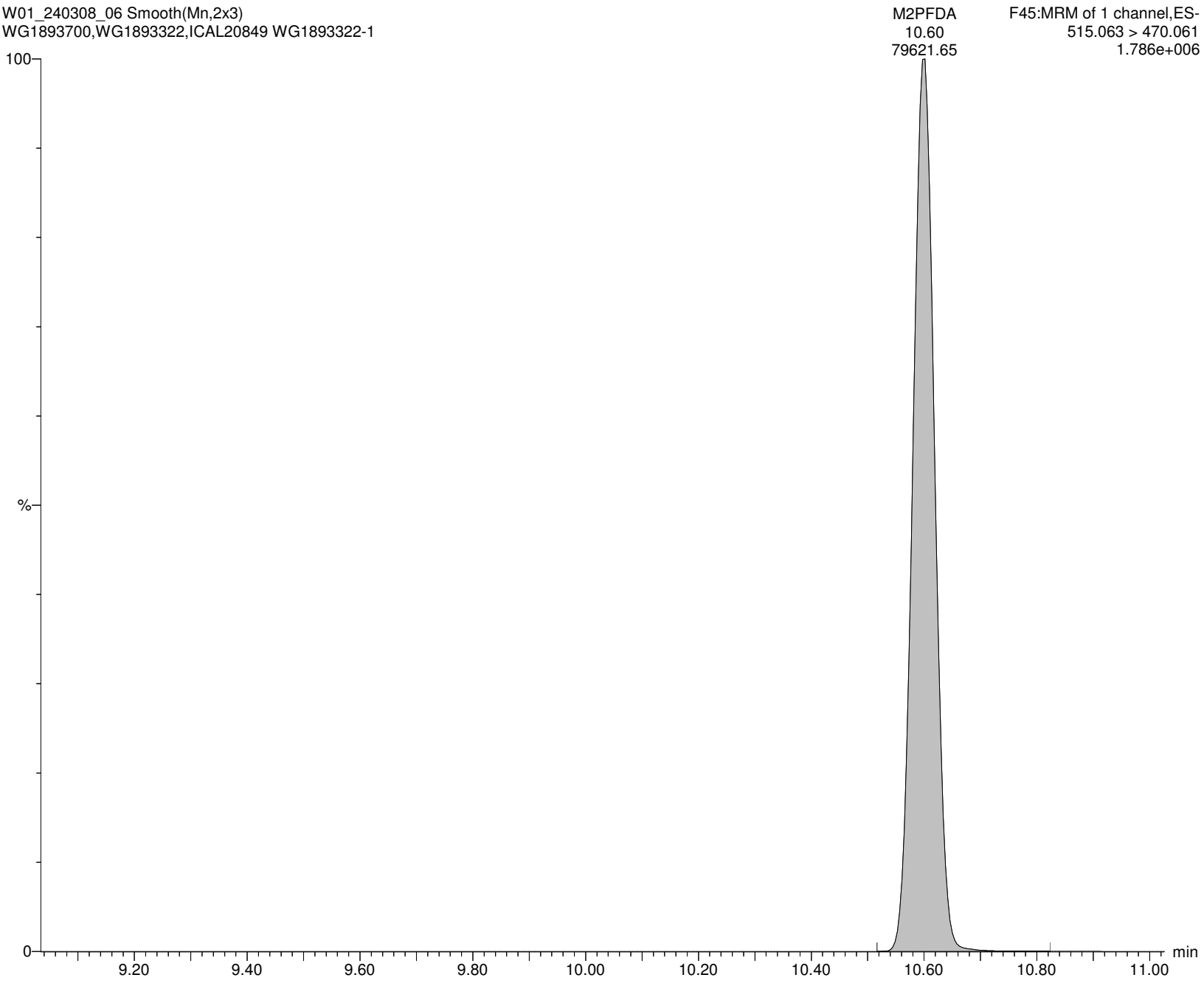
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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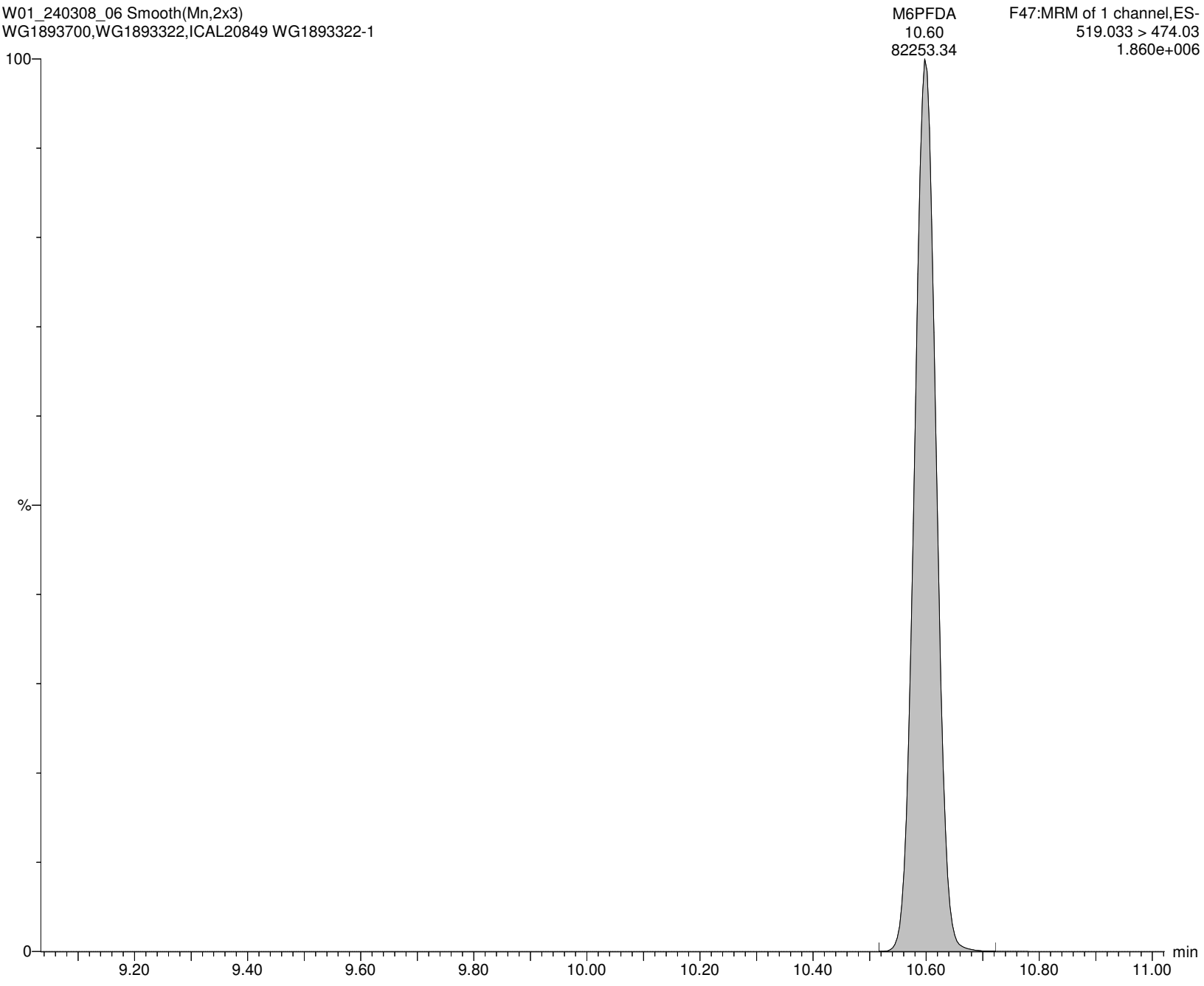
M6PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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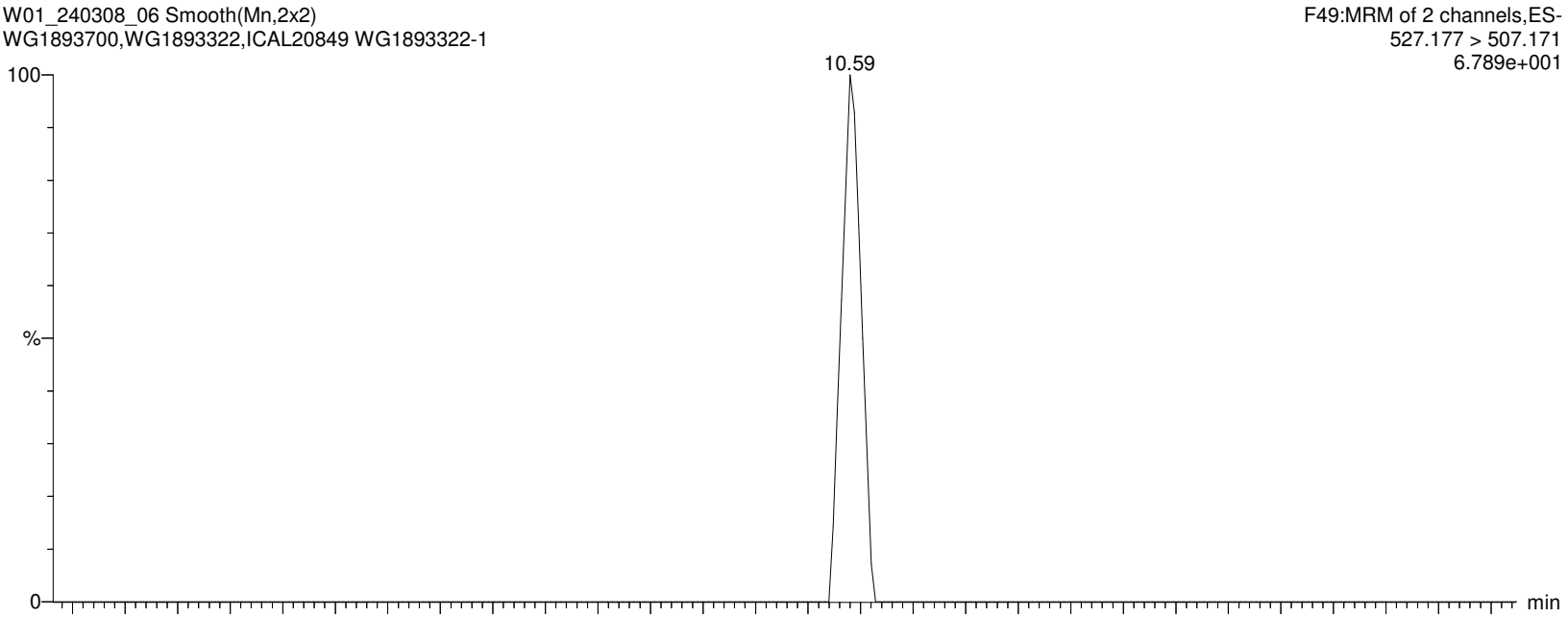
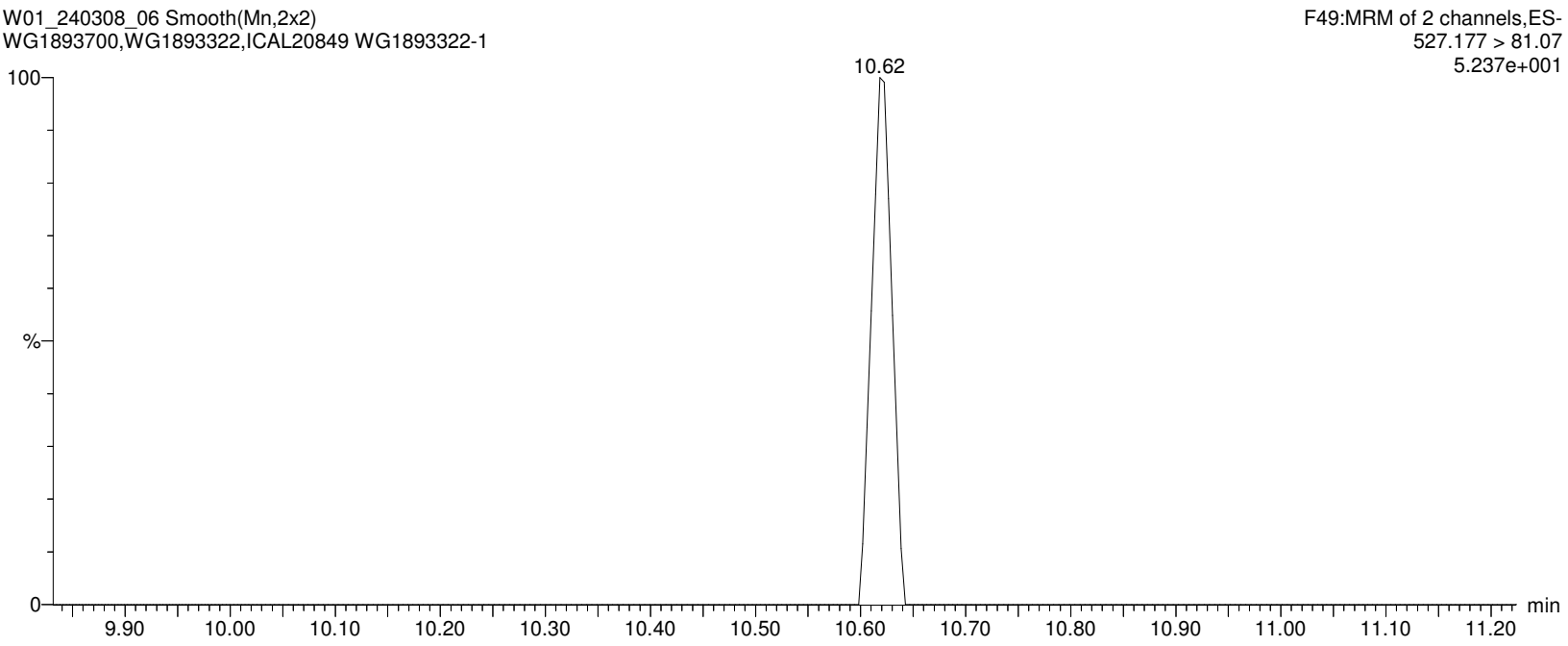
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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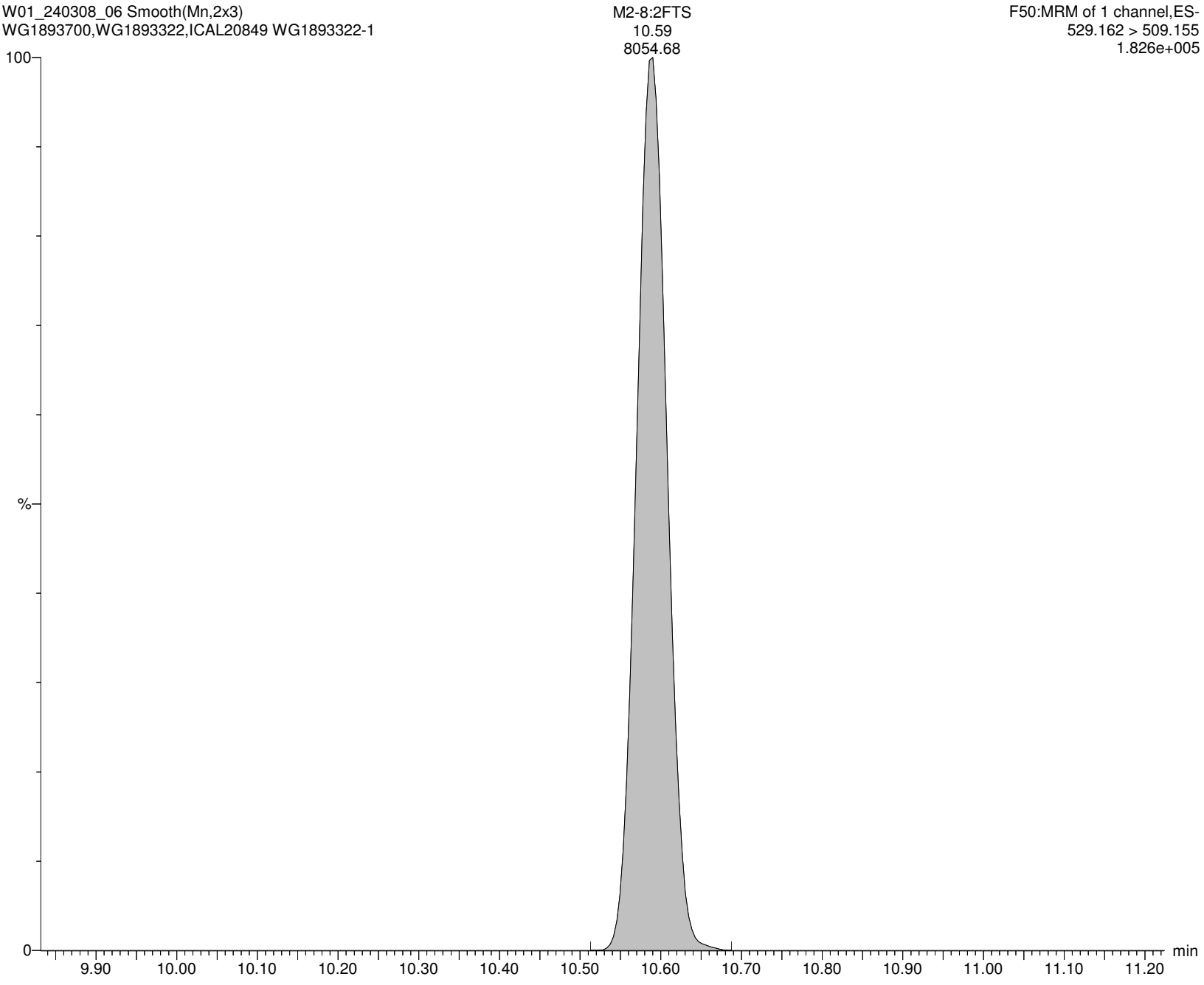

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Vial: 1:B,1
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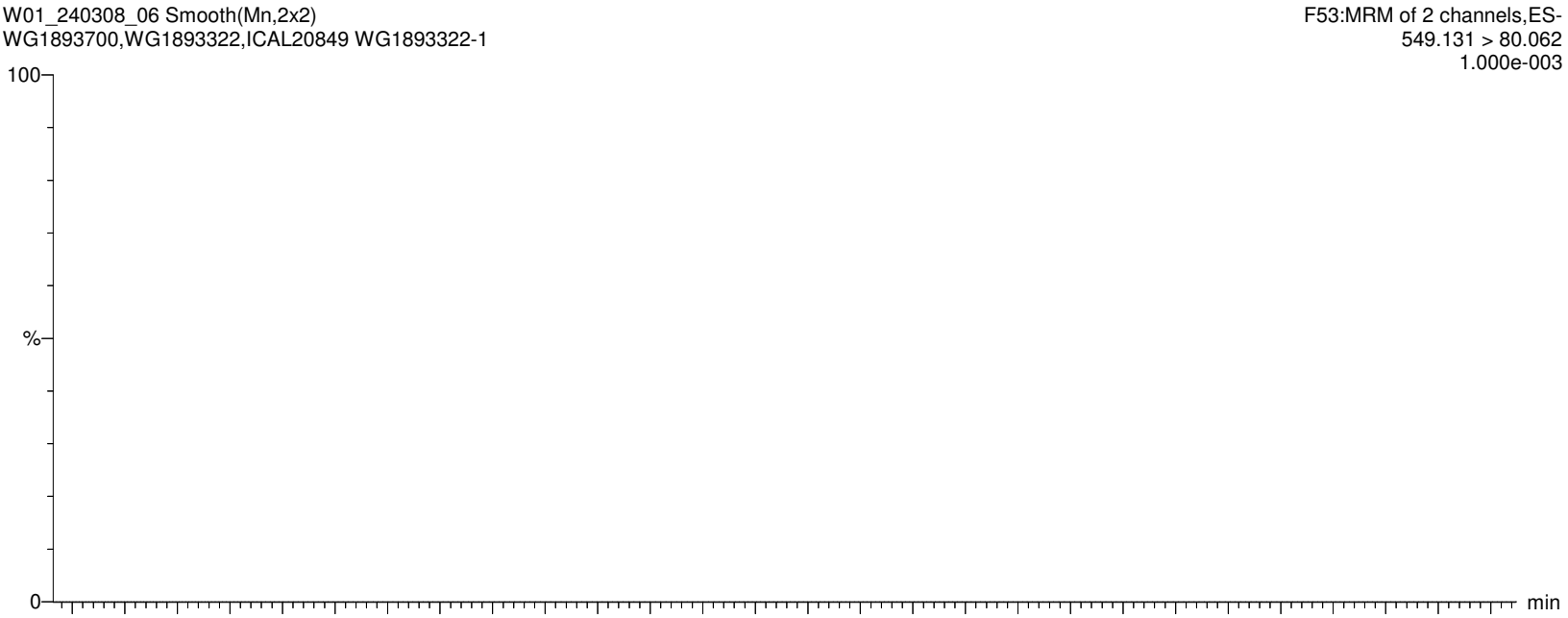
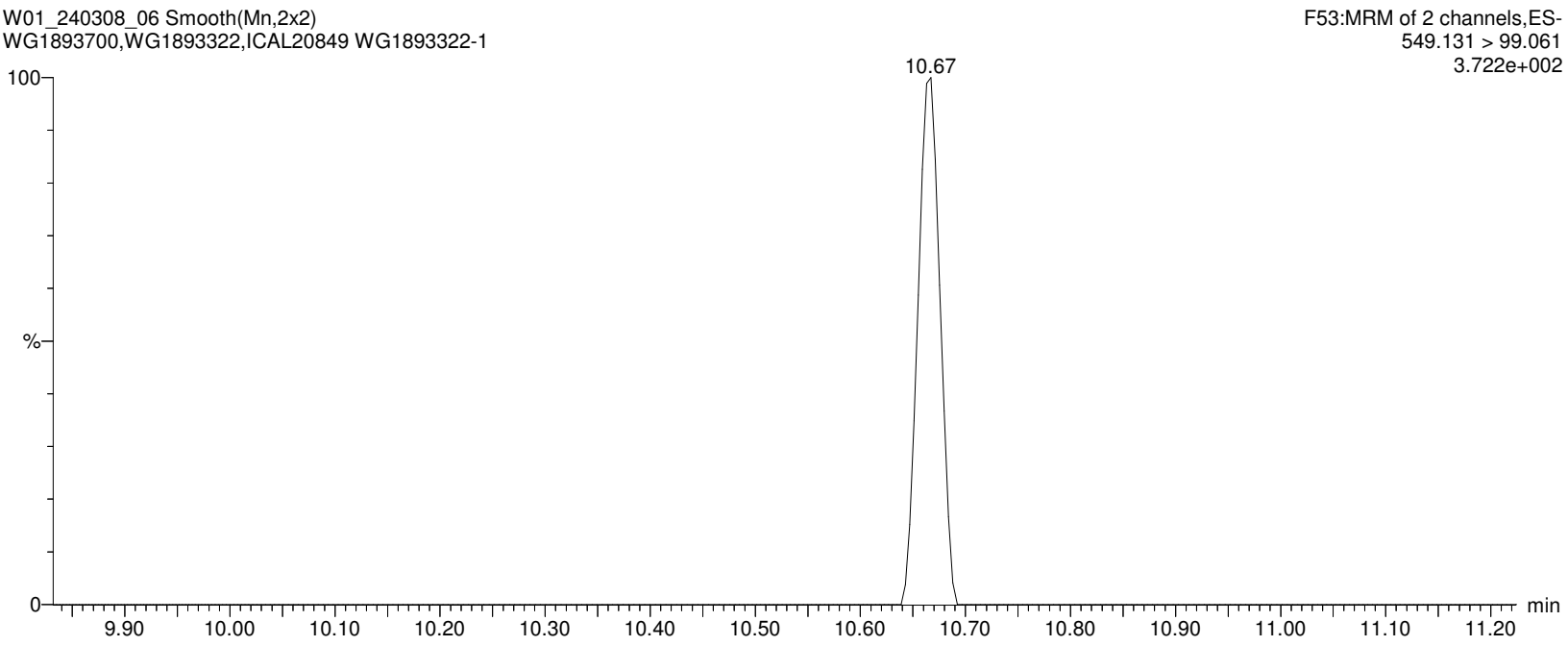
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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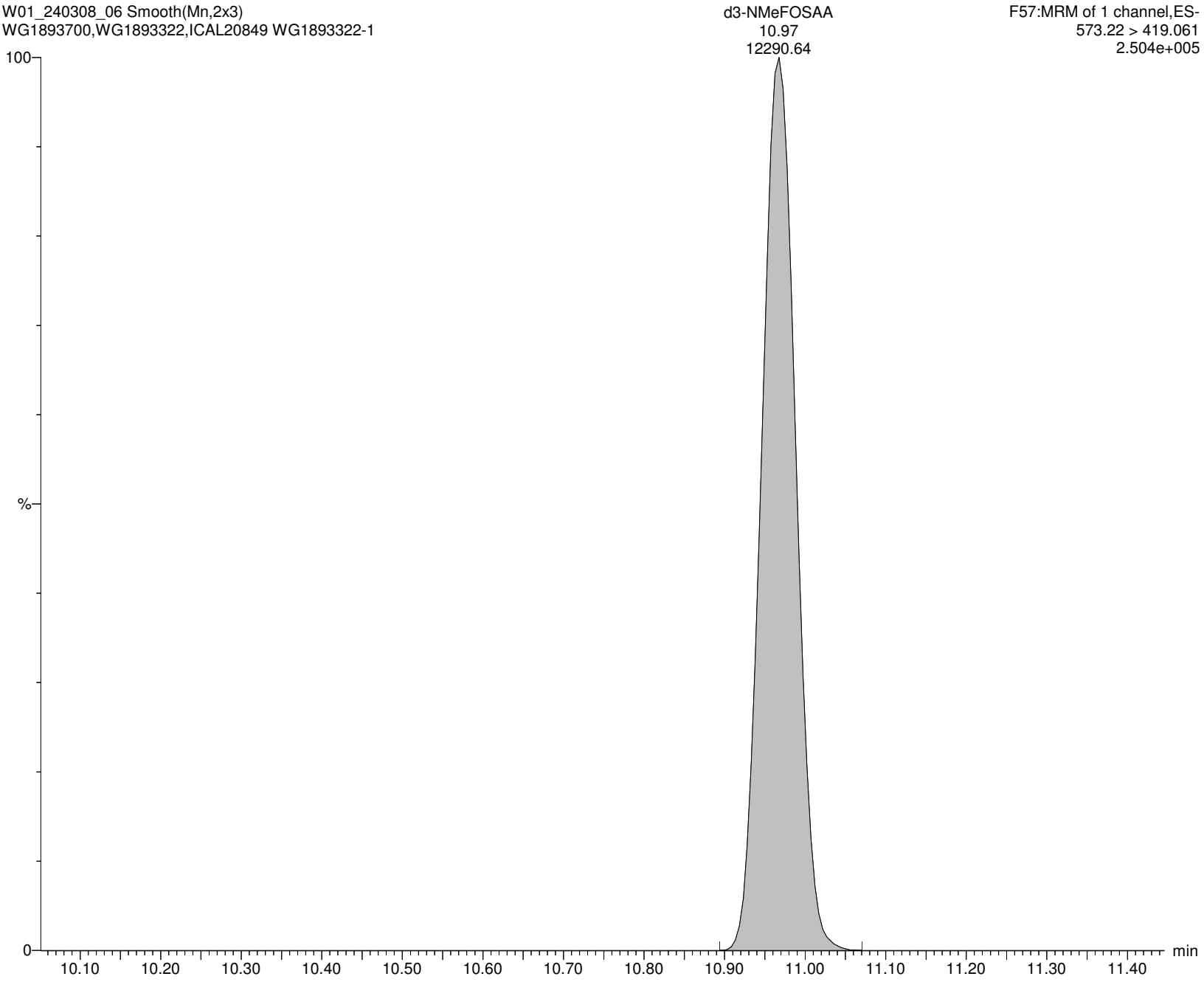
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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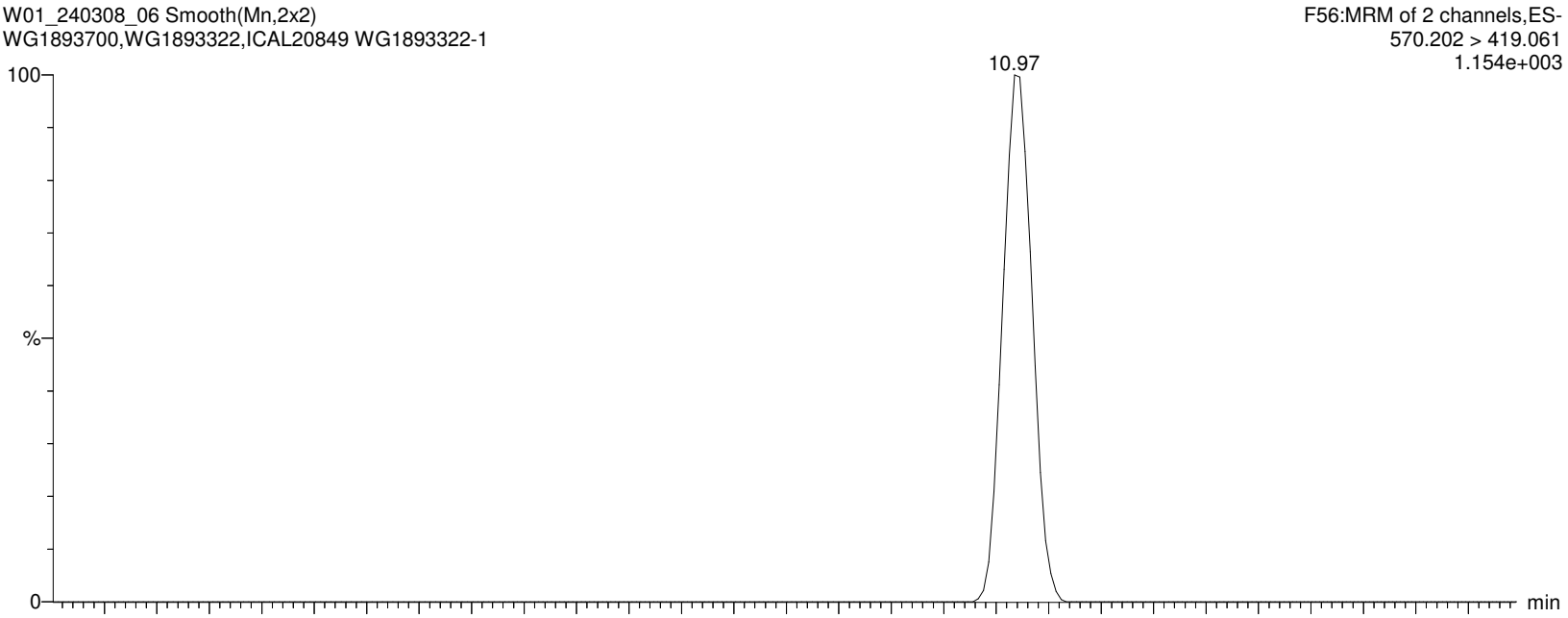
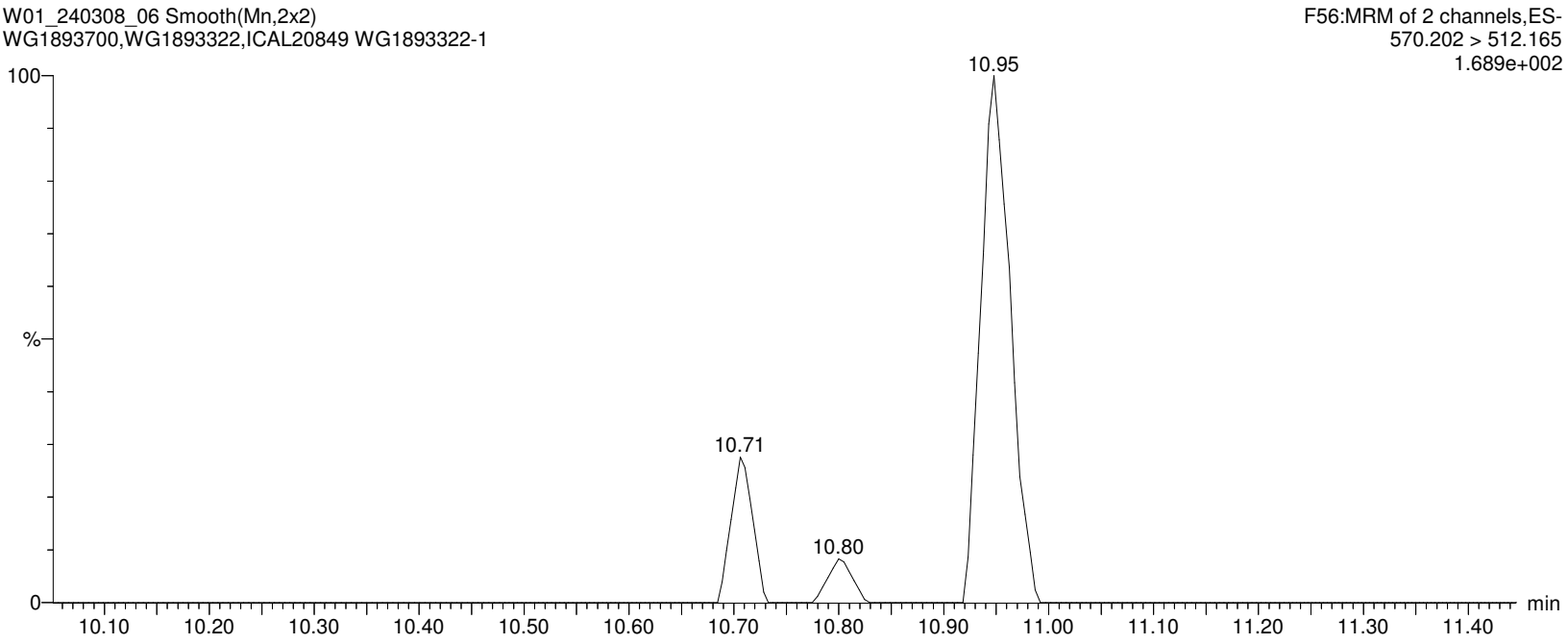
br-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,1
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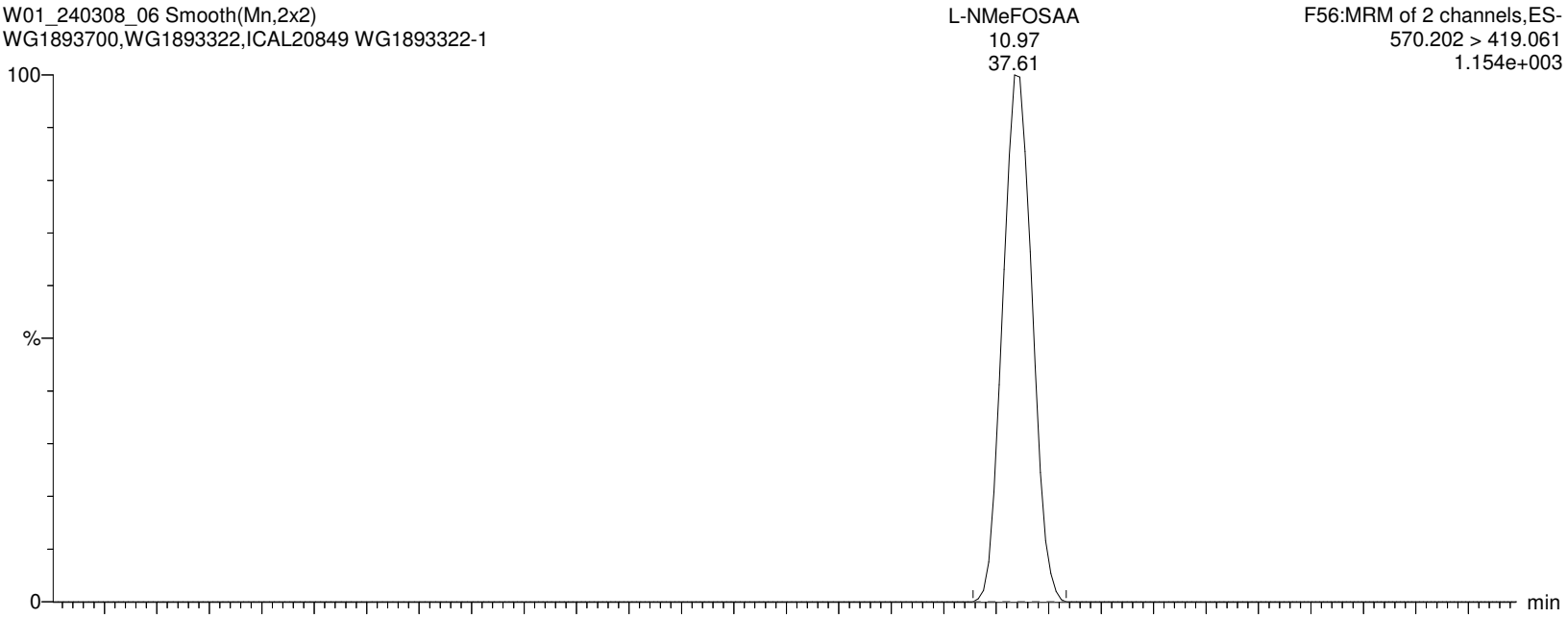

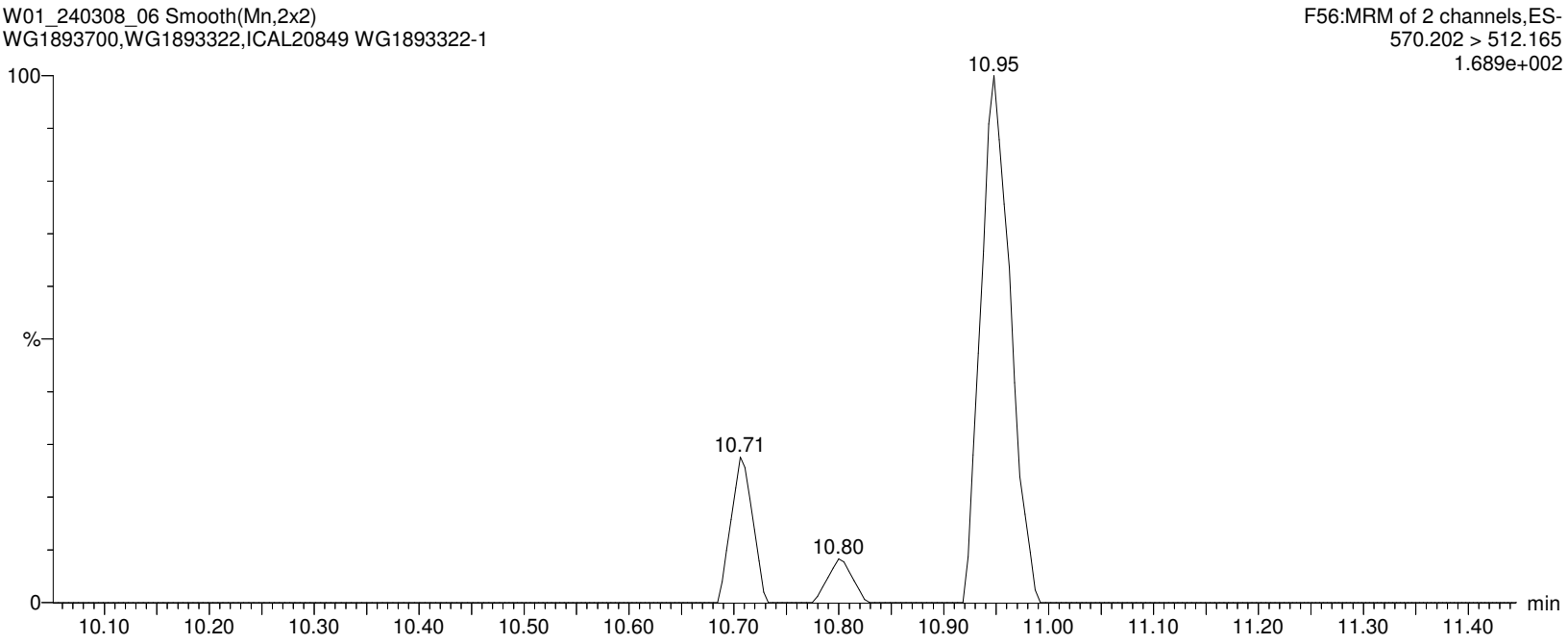

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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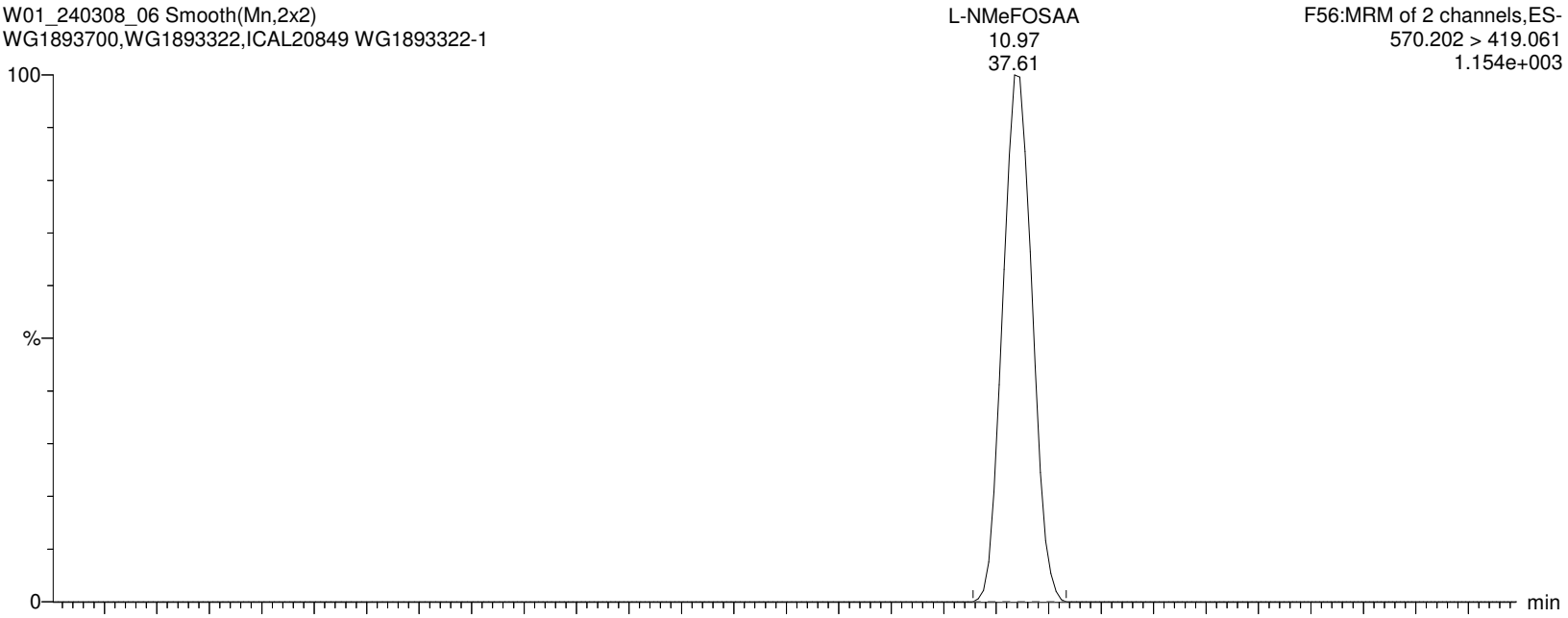

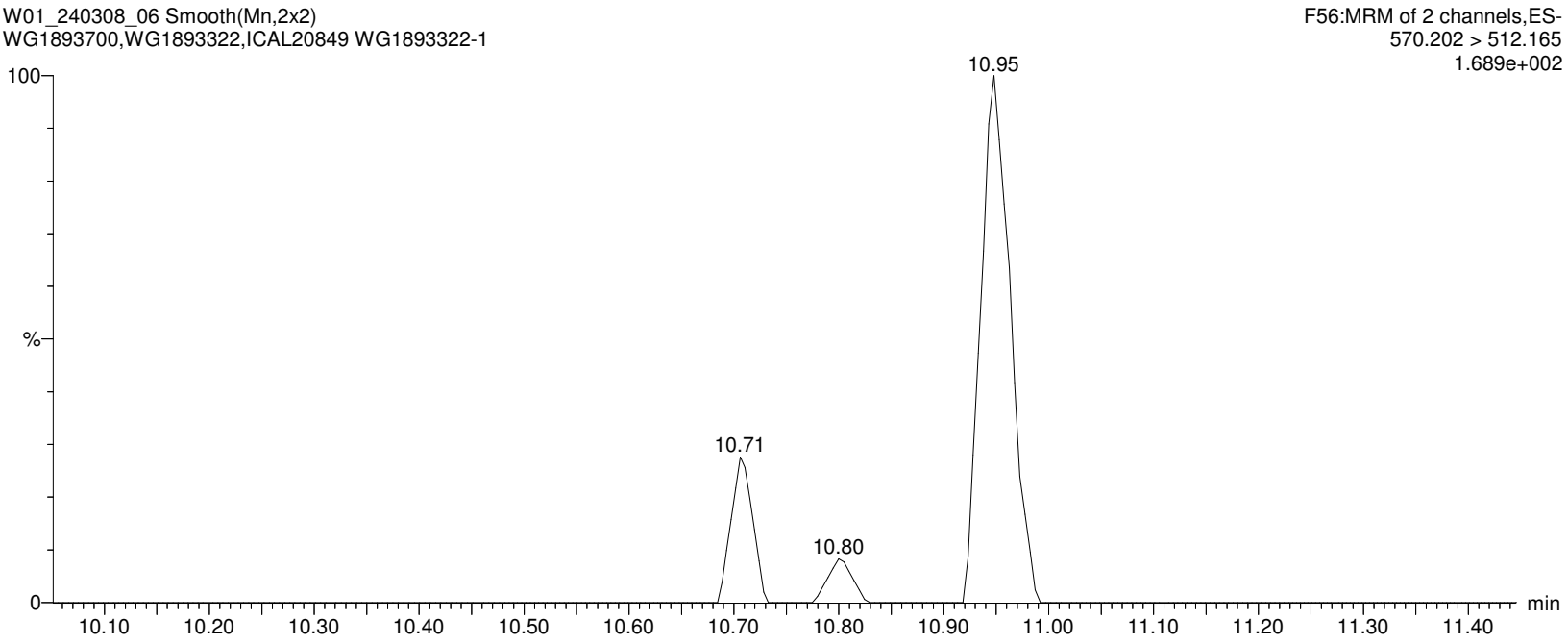

all concentration units in (ng/mL)

Alpha Analytical Inc.
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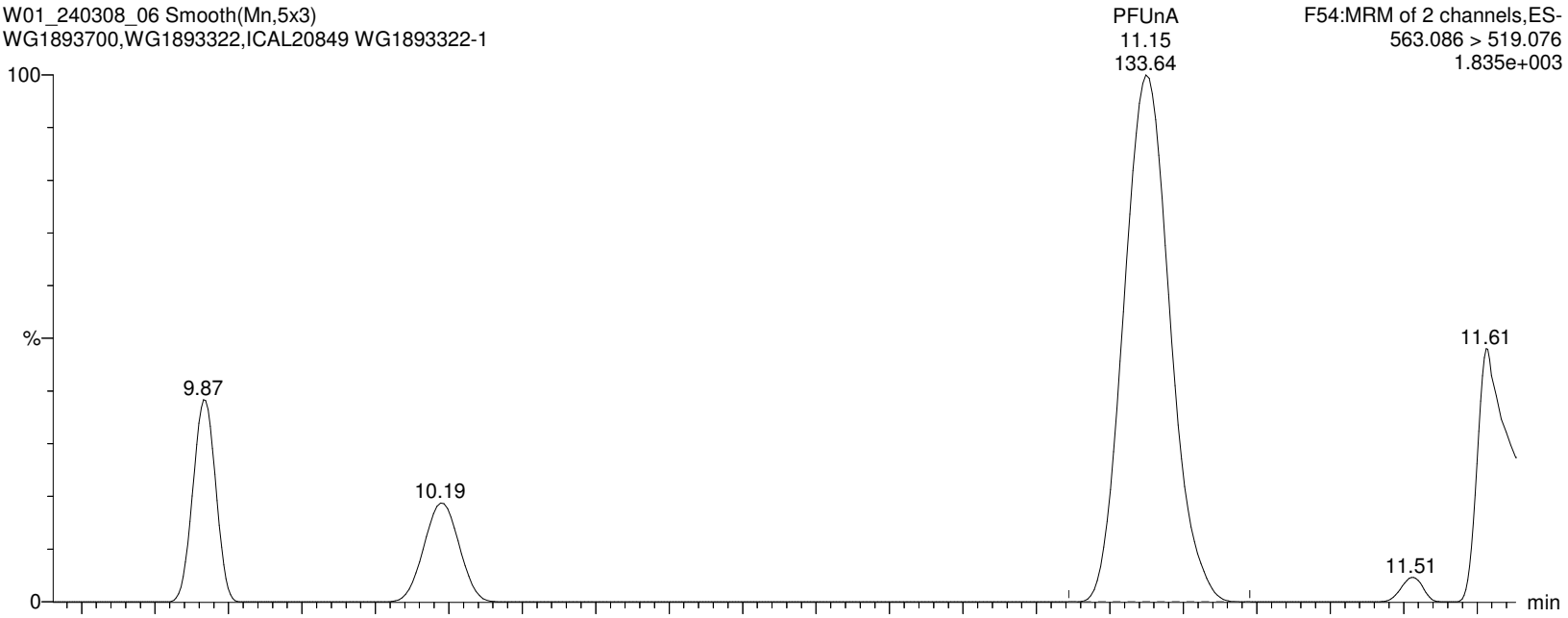

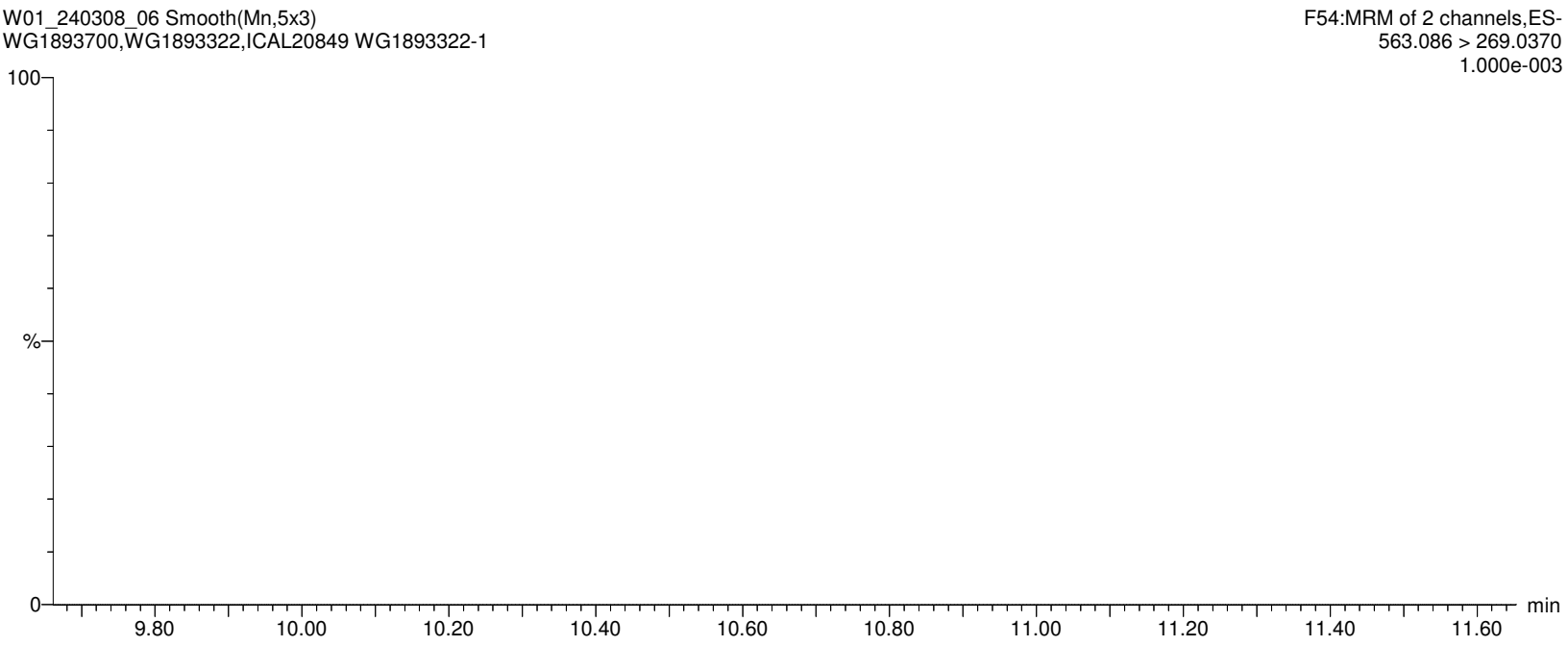

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AC
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
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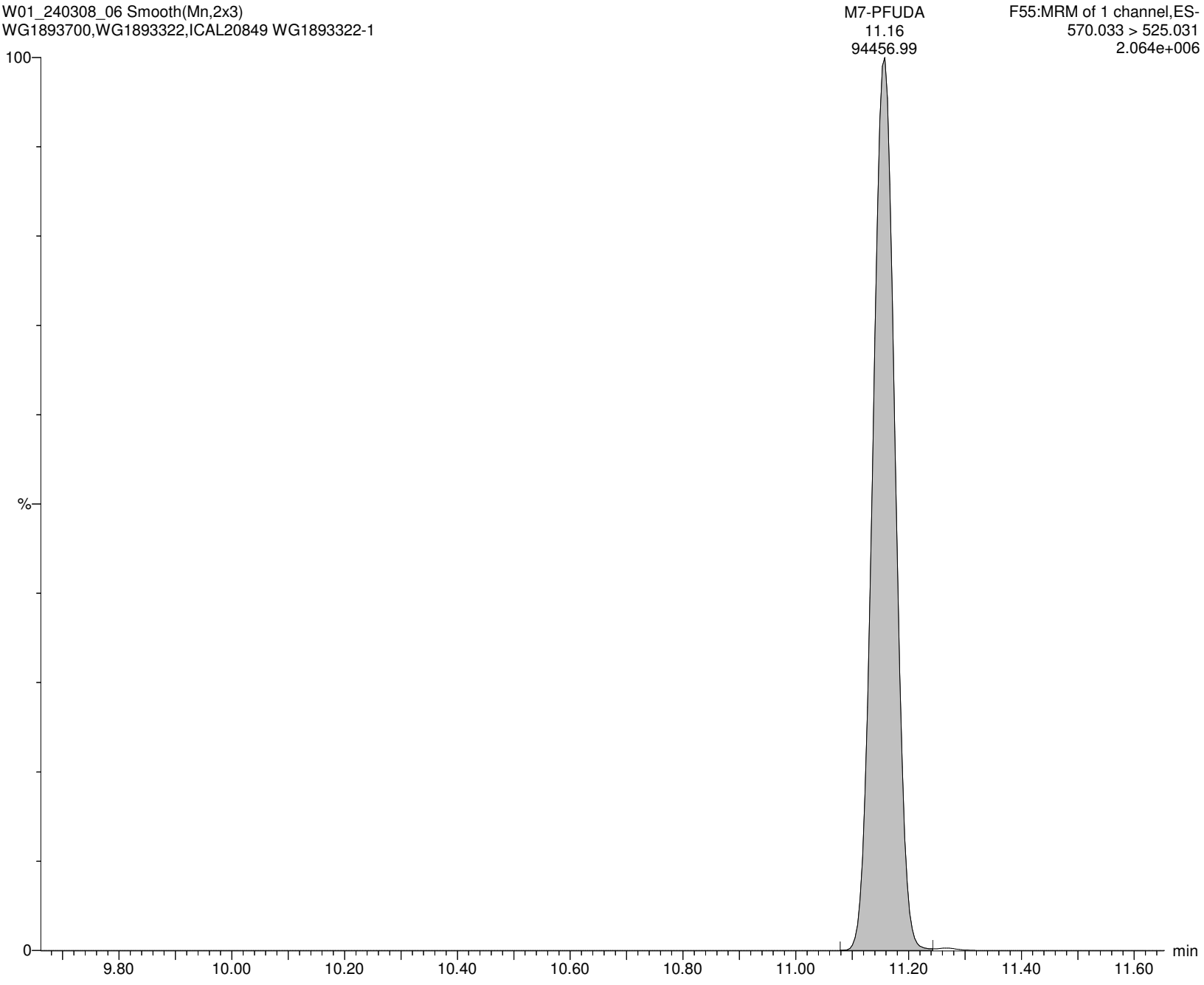
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:33 Eastern Standard Time

Name: W01_240308_06
ID: WG1893322-1
Date: 08-Mar-2024
Time: 06:26:32
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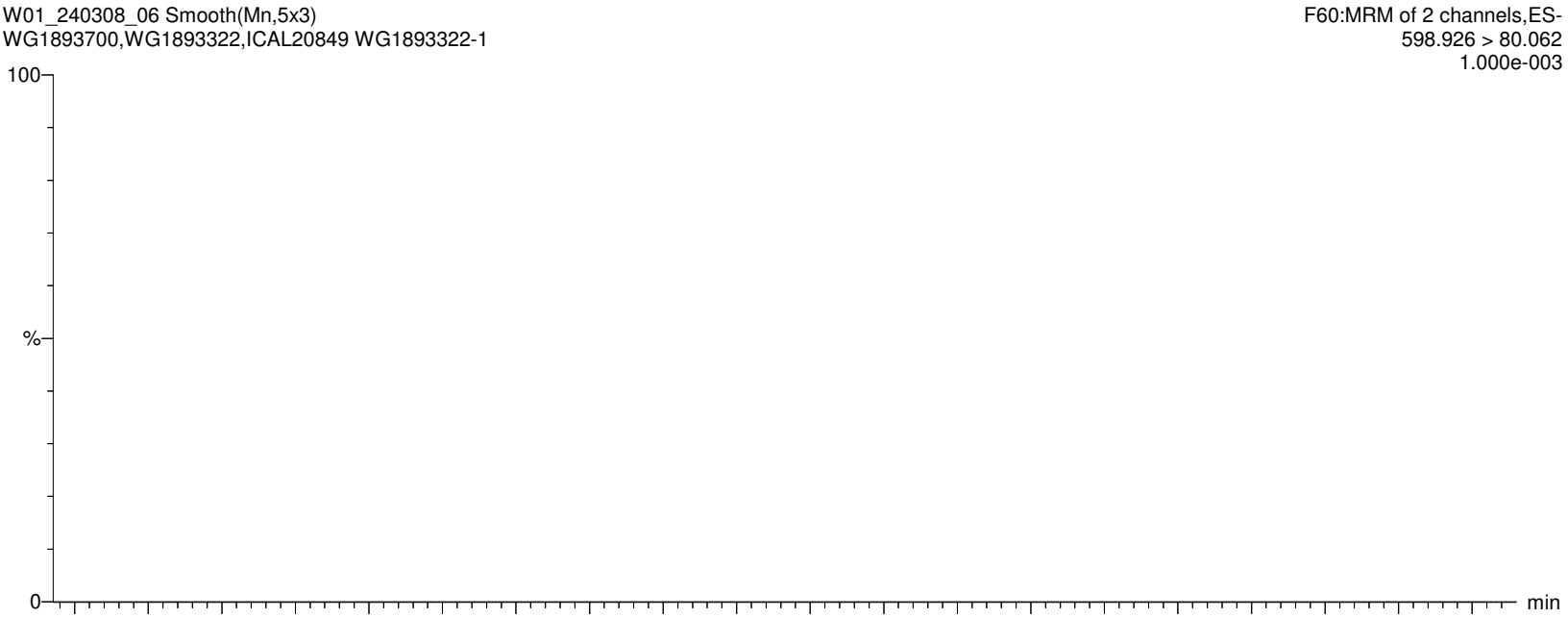

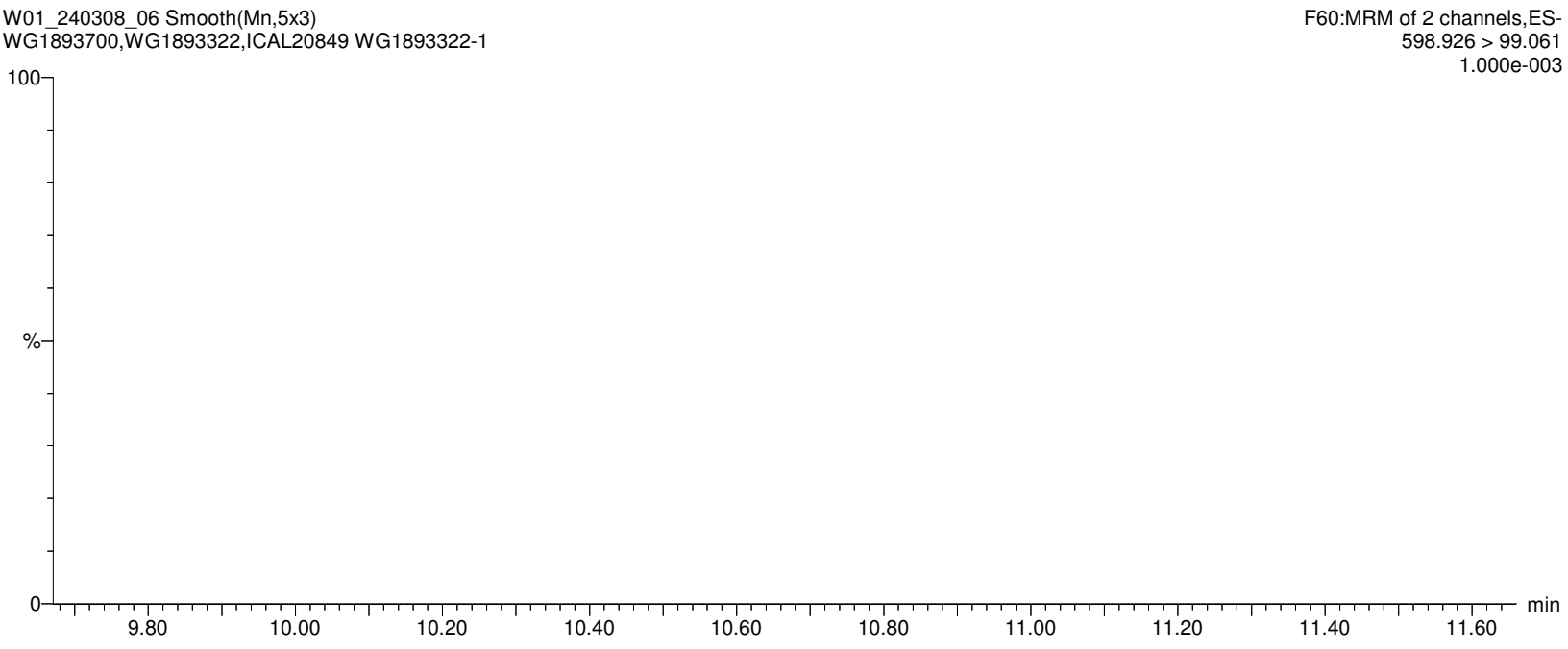

all concentration units in (ng/mL)

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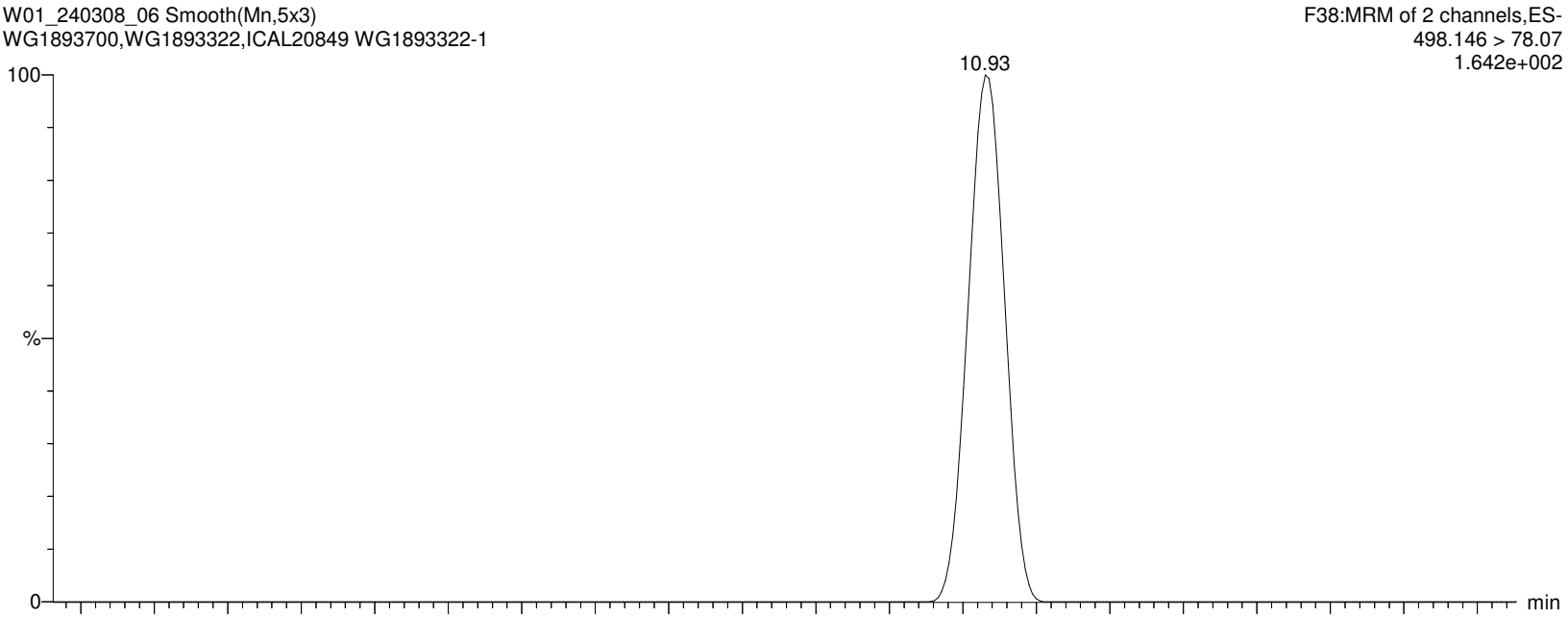

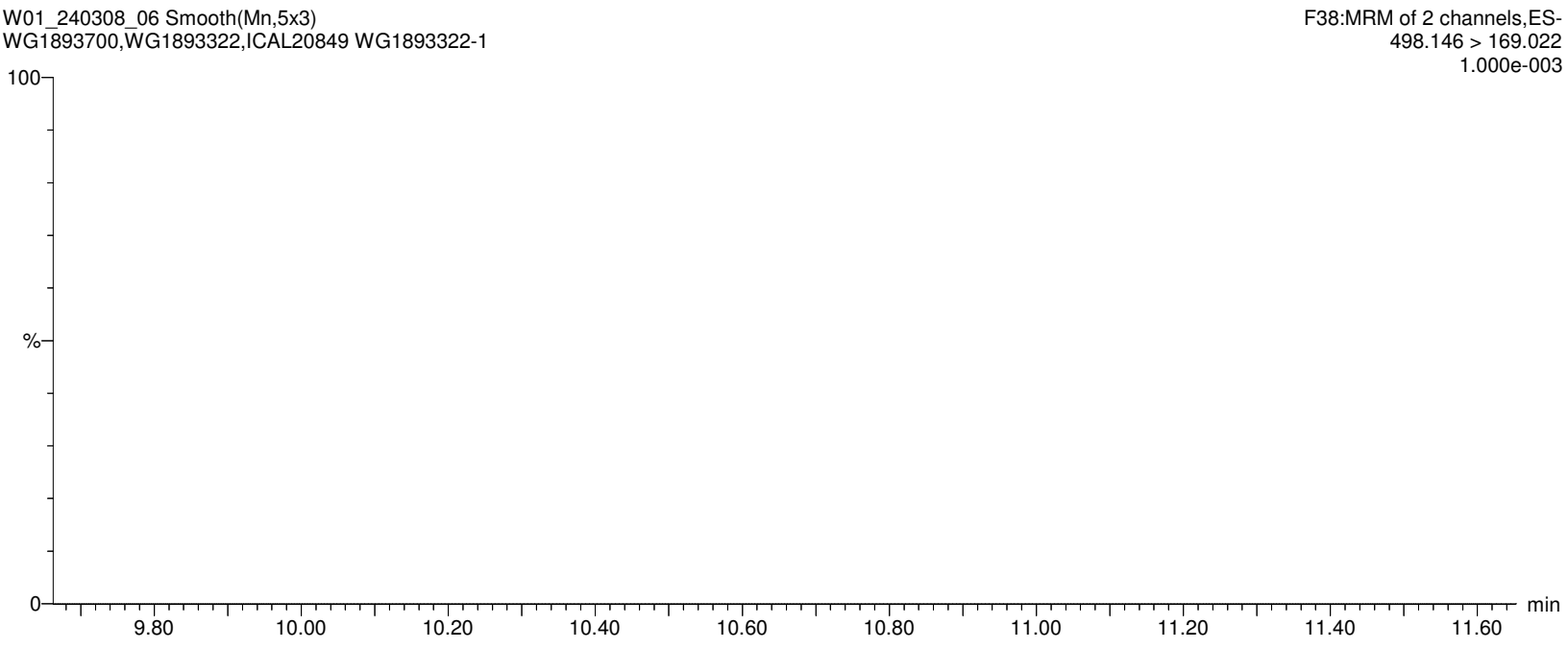

all concentration units in (ng/mL)

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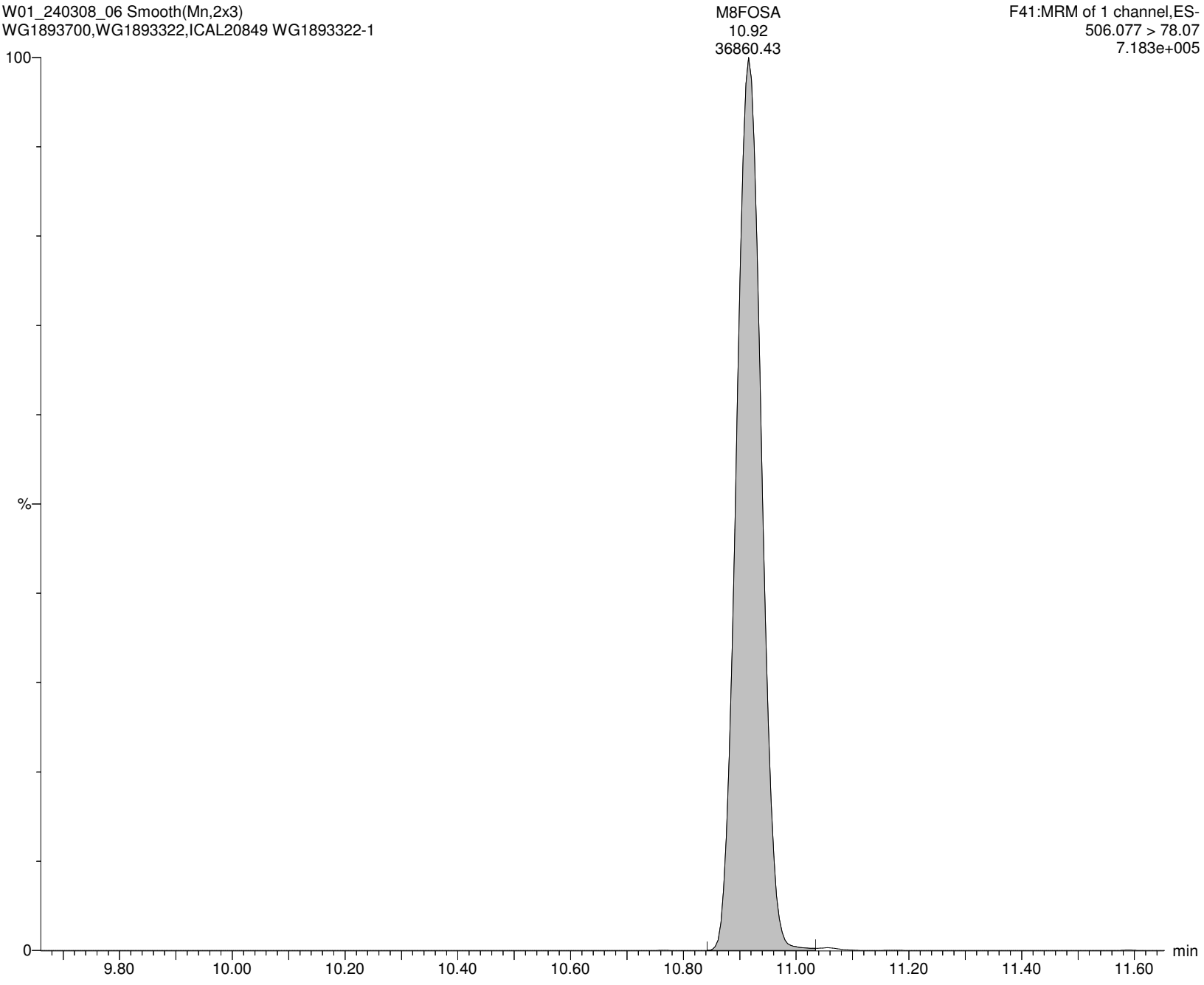

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Vial: 1:B,1
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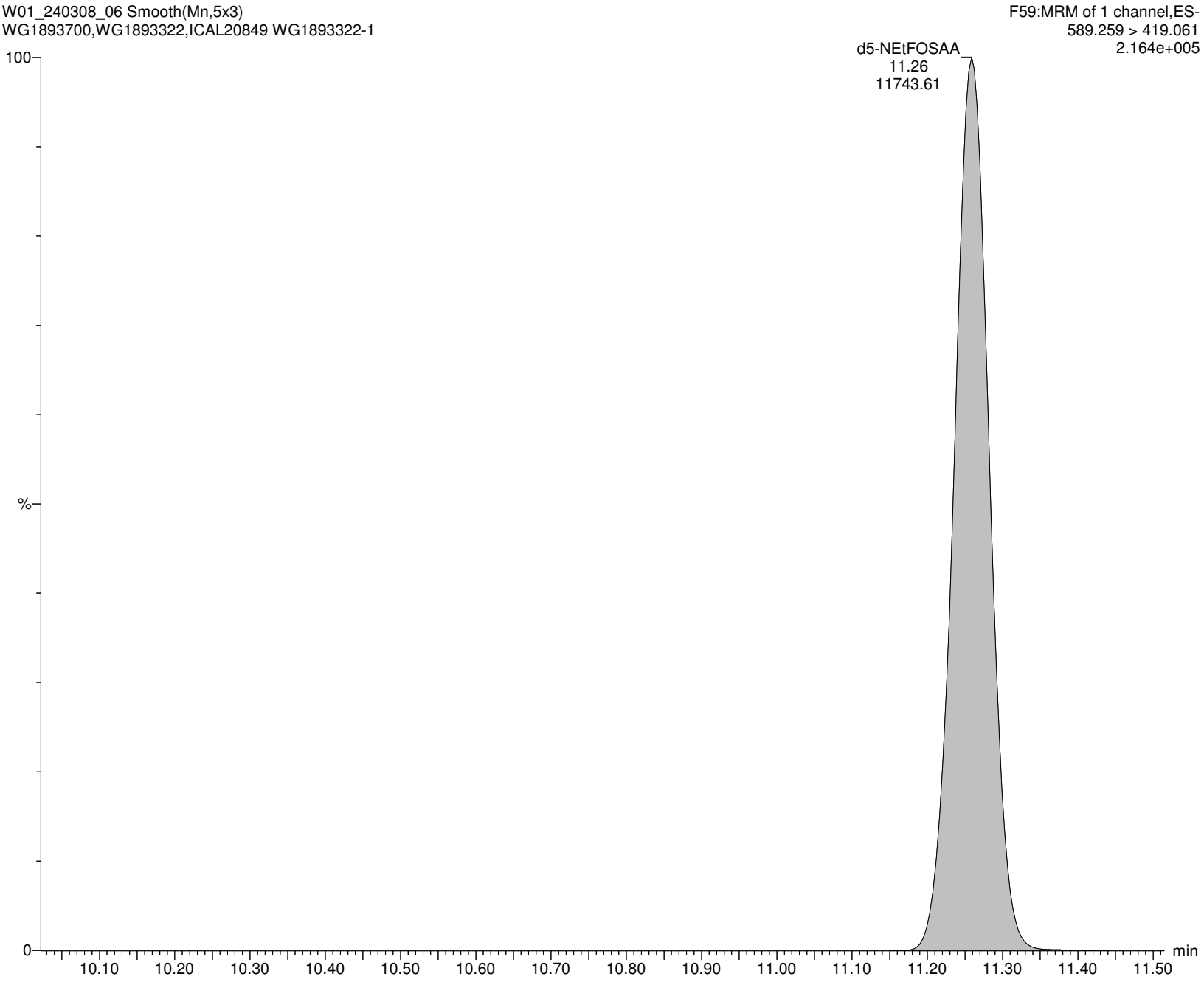
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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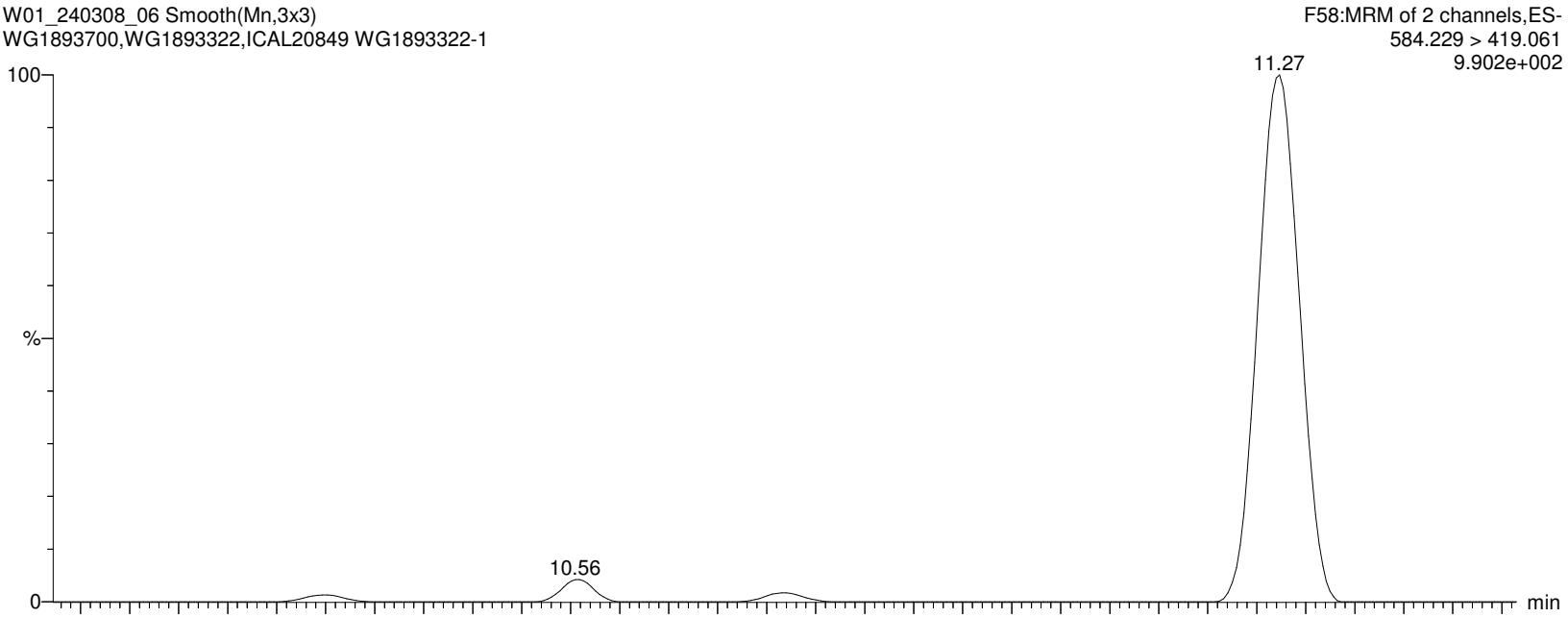

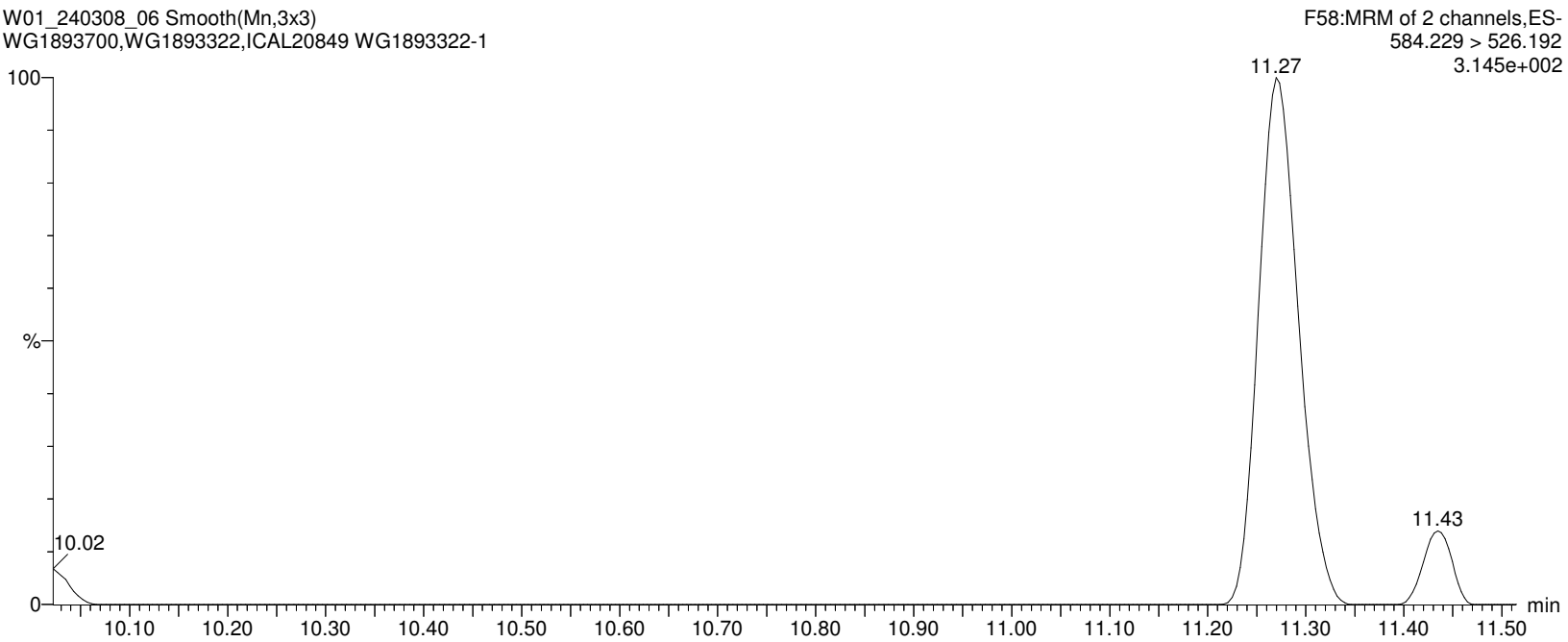

all concentration units in (ng/mL)

Alpha Analytical Inc.
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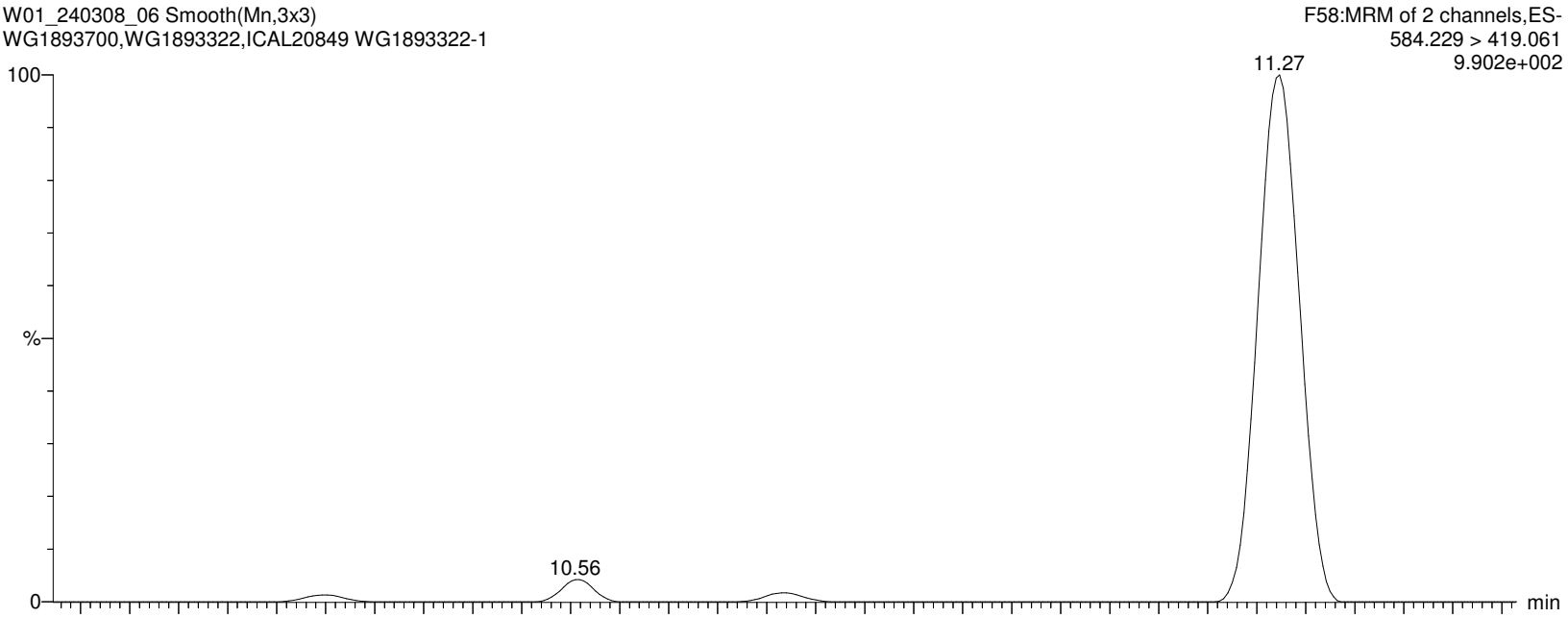

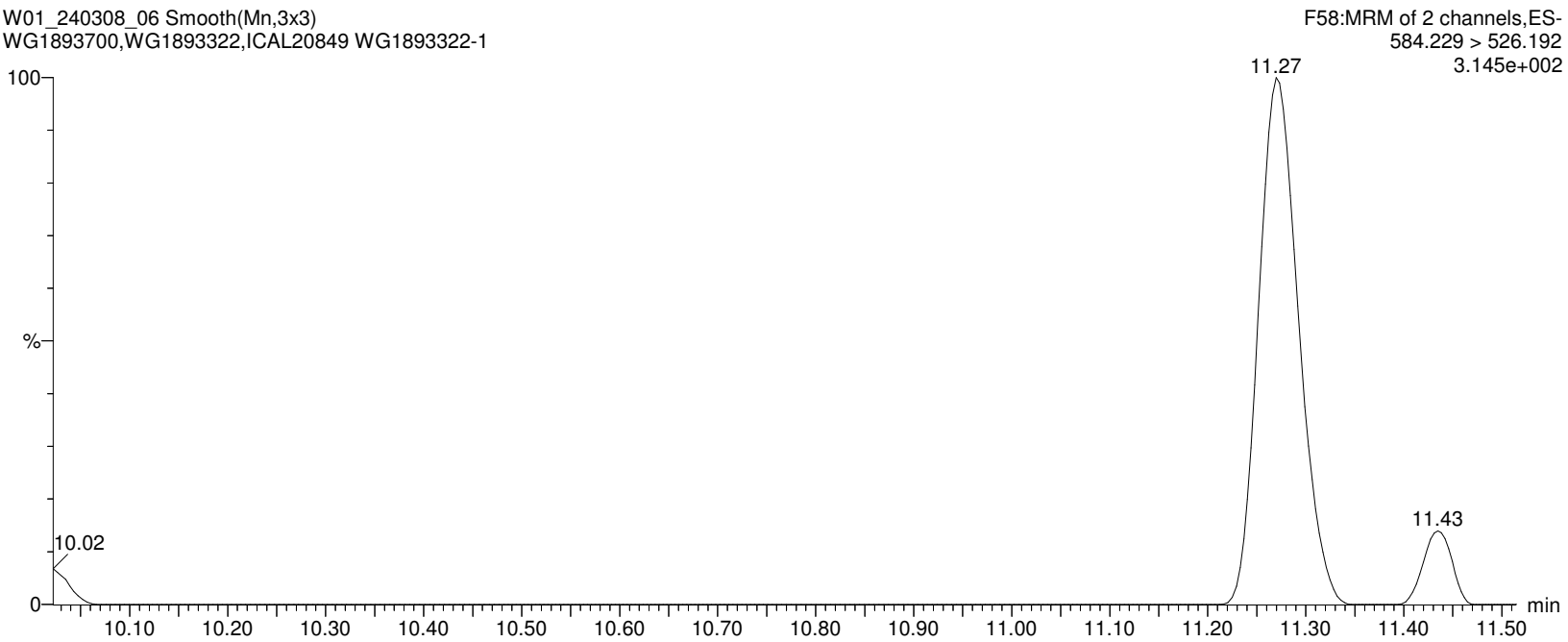

all concentration units in (ng/mL)

Alpha Analytical Inc.
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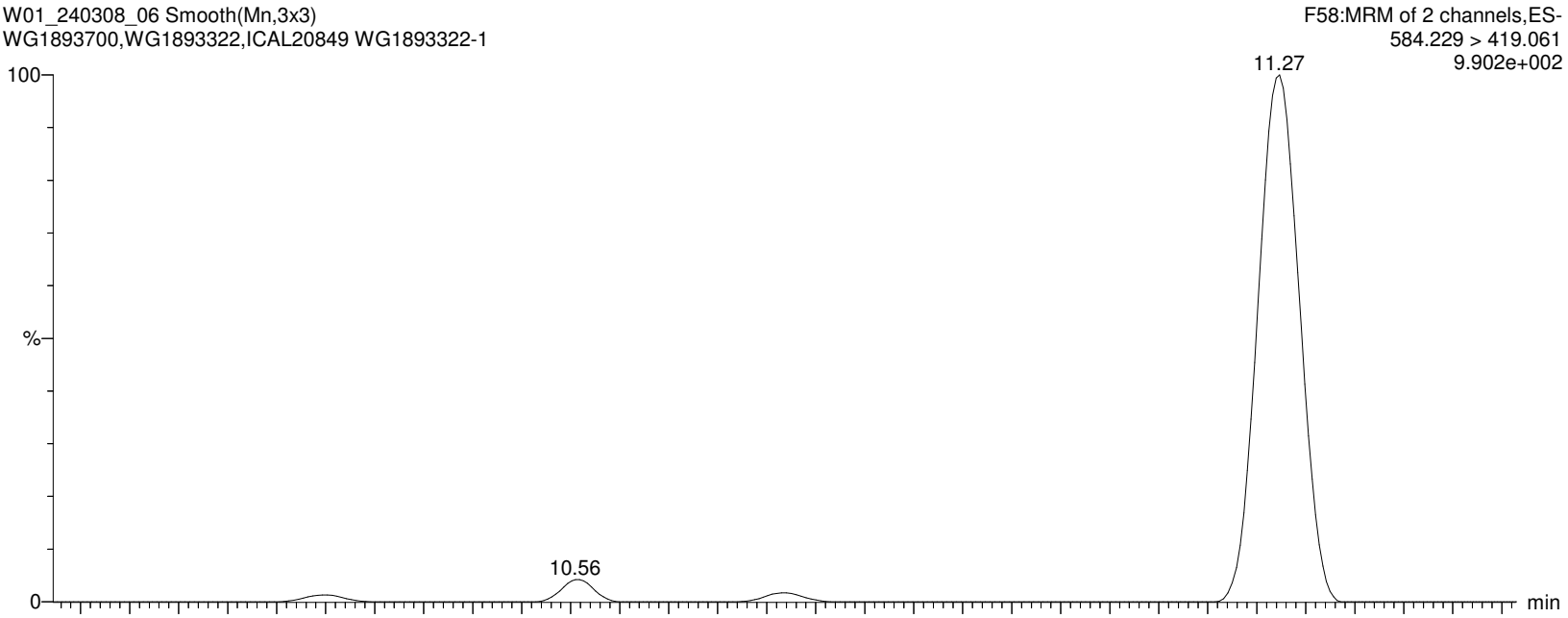

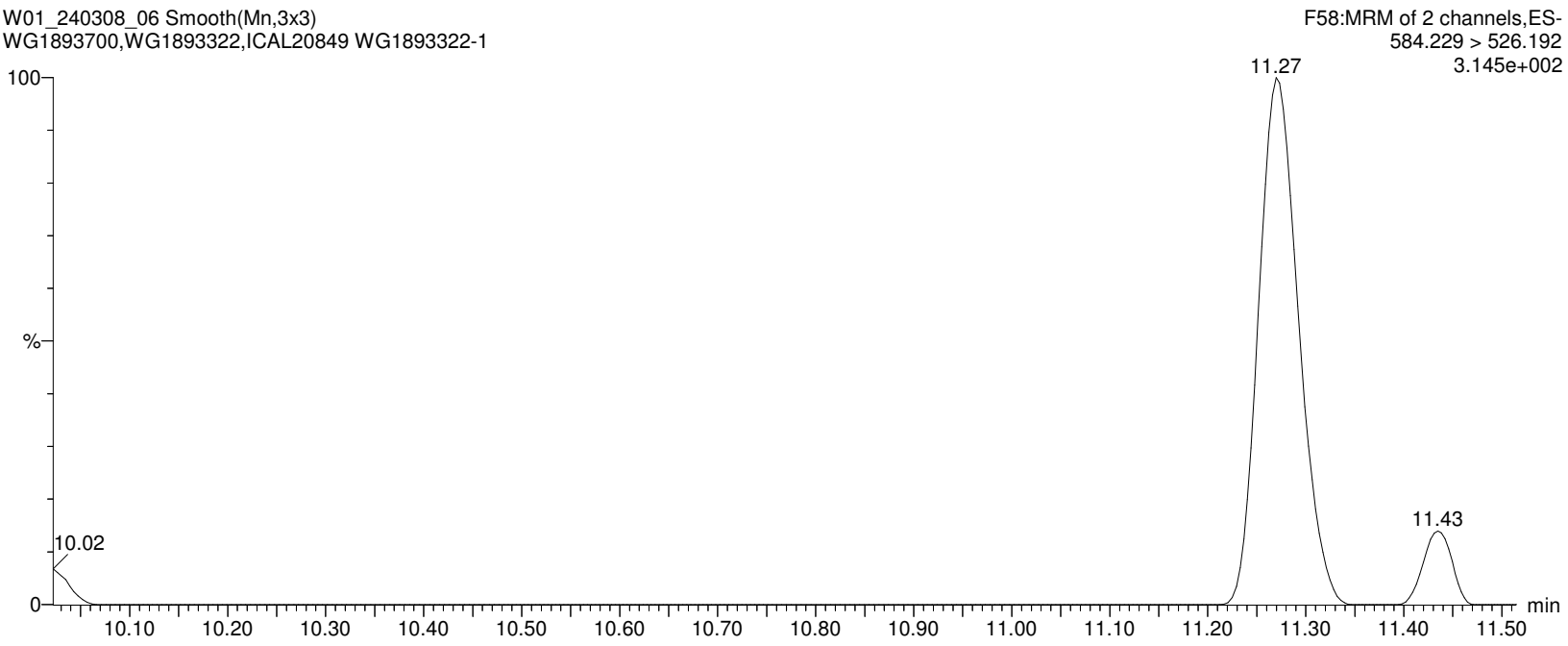

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Vial: 1:B,1
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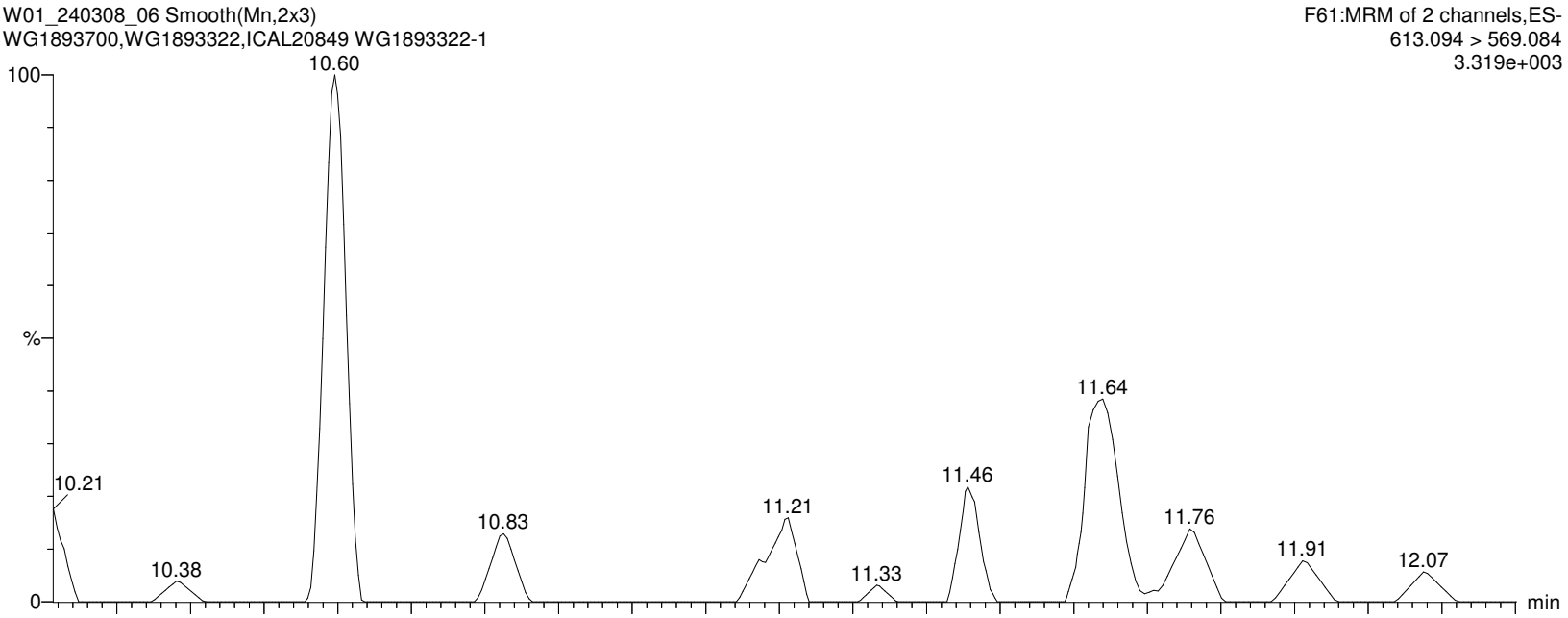

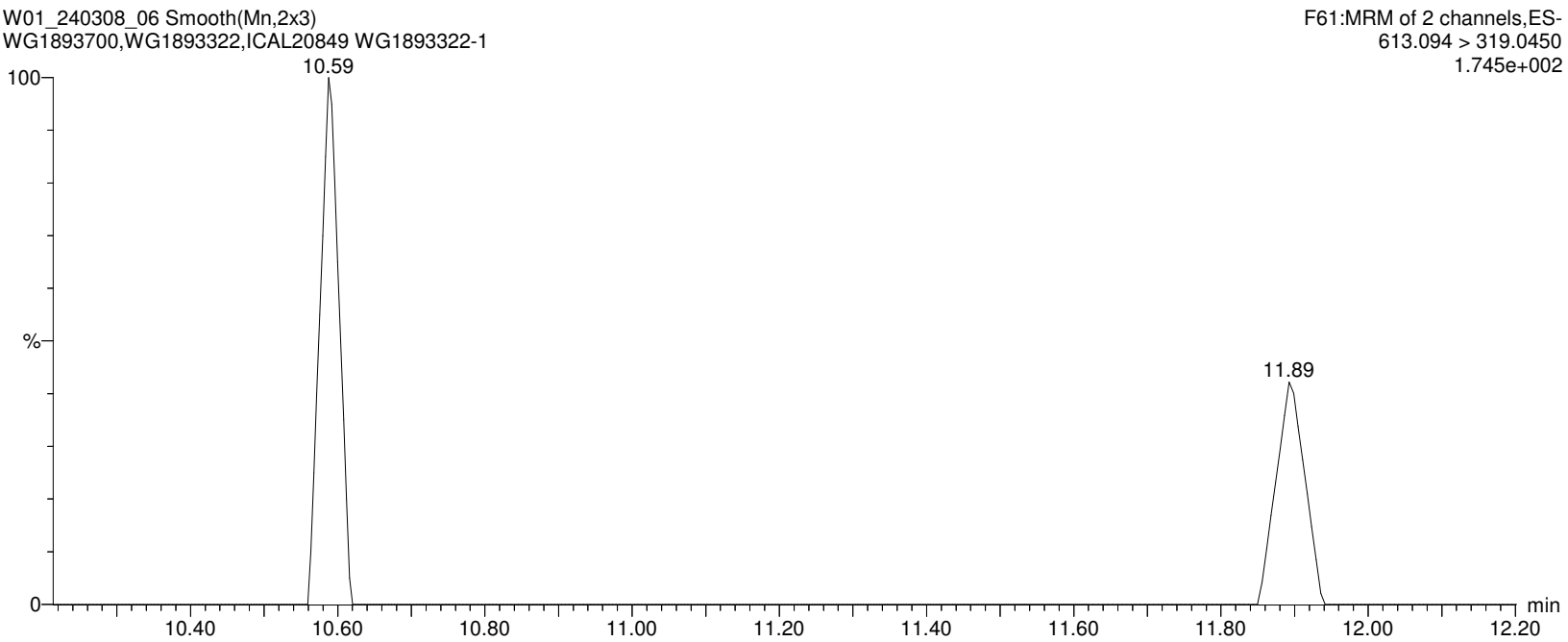

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,1
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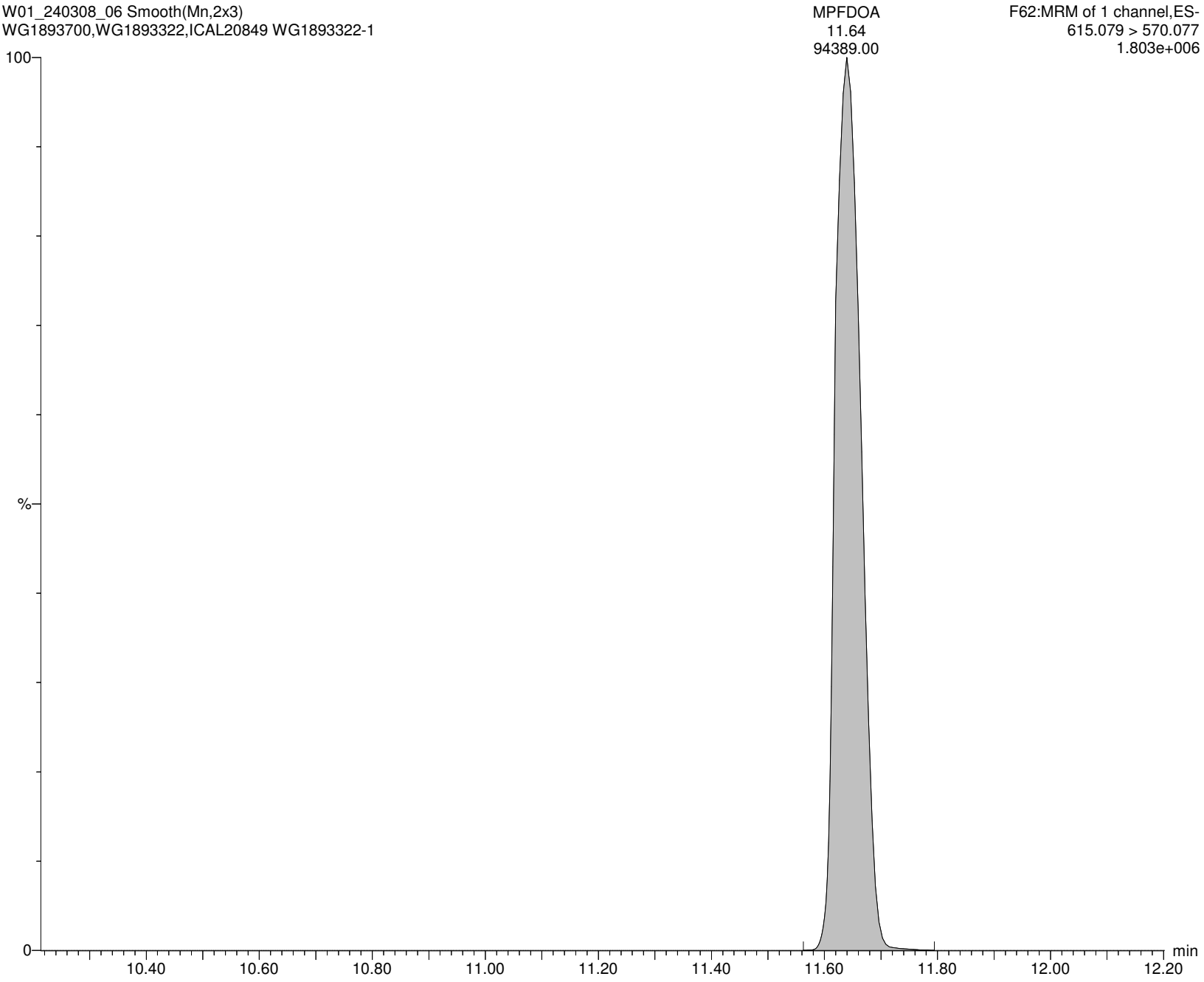

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 08-Mar-2024
Time: 06:26:32
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User: LCMS01:AC
Vial: 1:B,1
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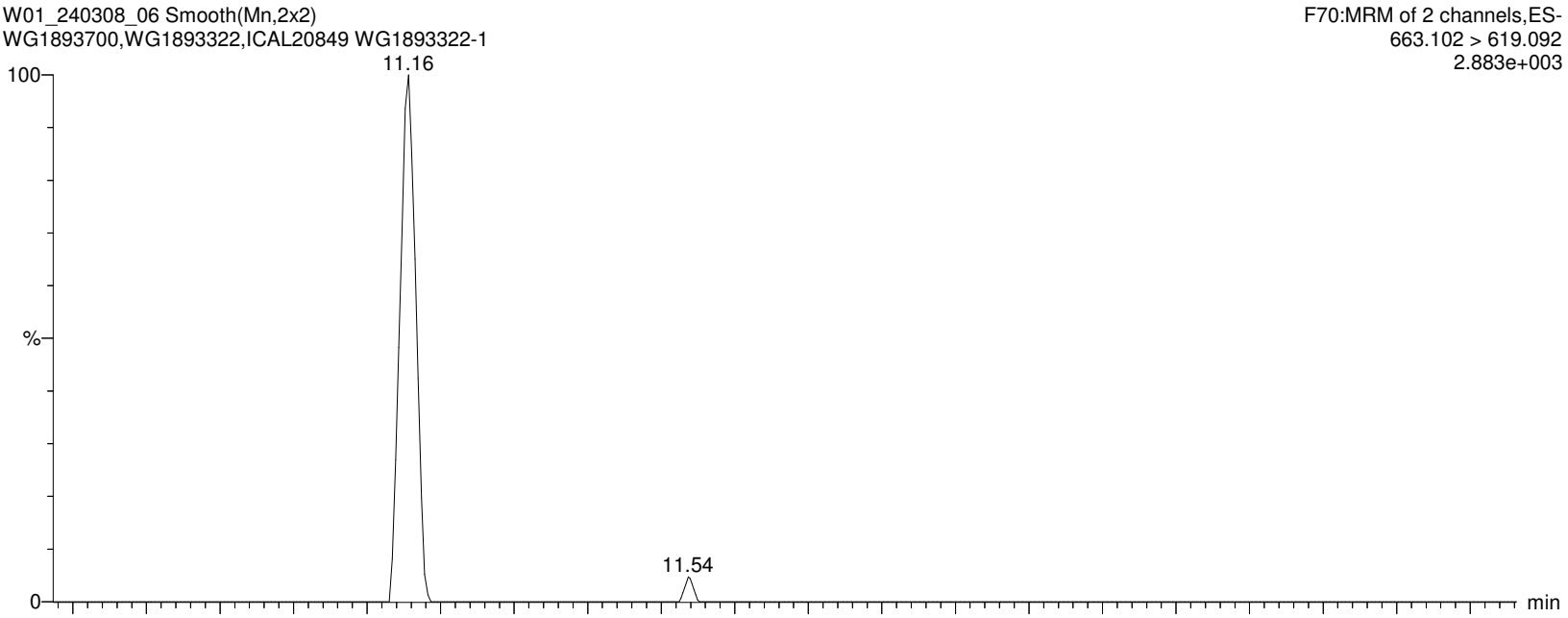

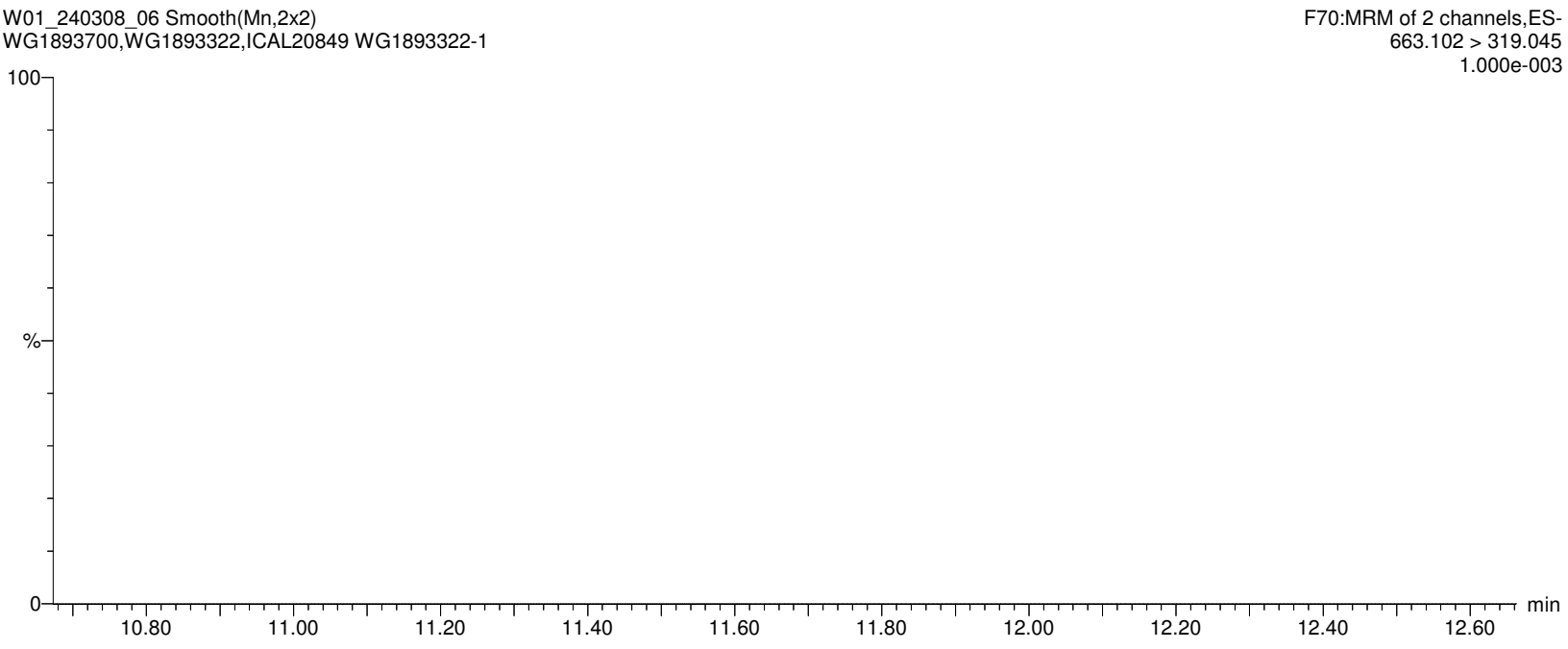

all concentration units in (ng/mL)

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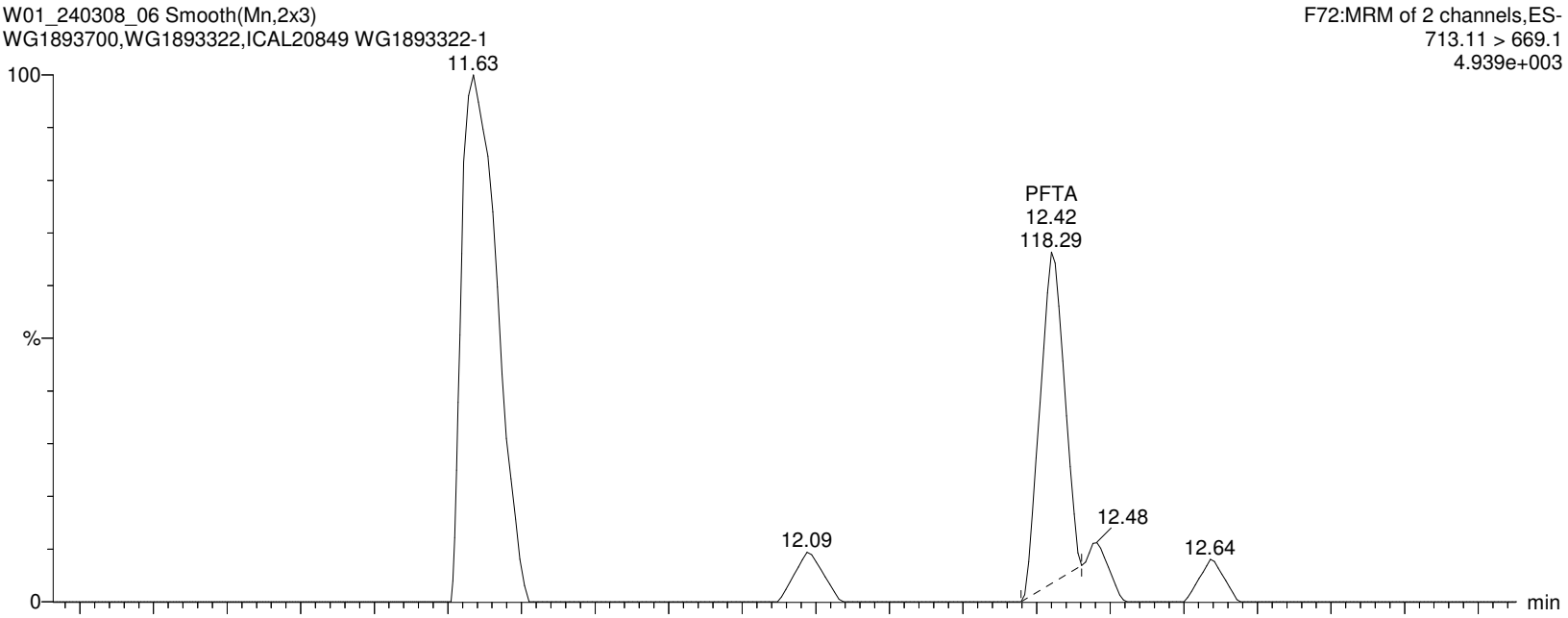

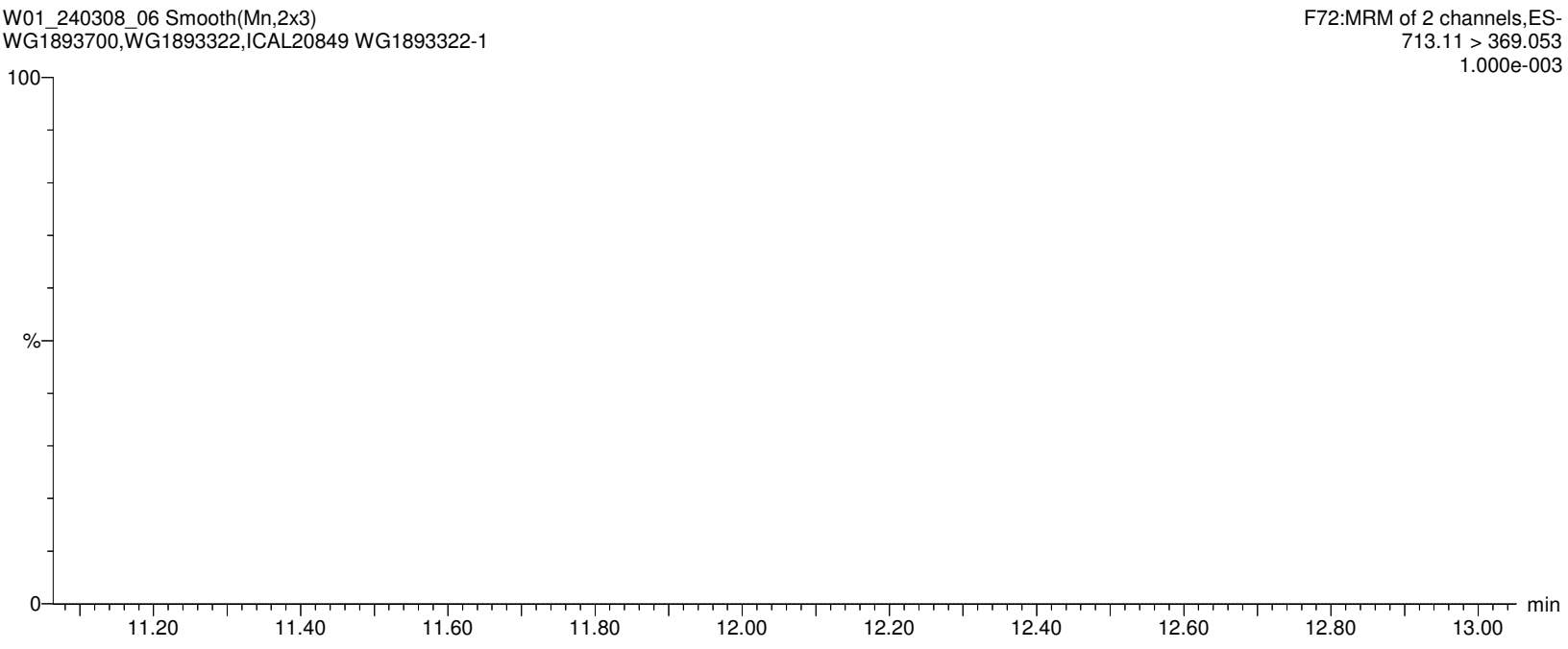

all concentration units in (ng/mL)

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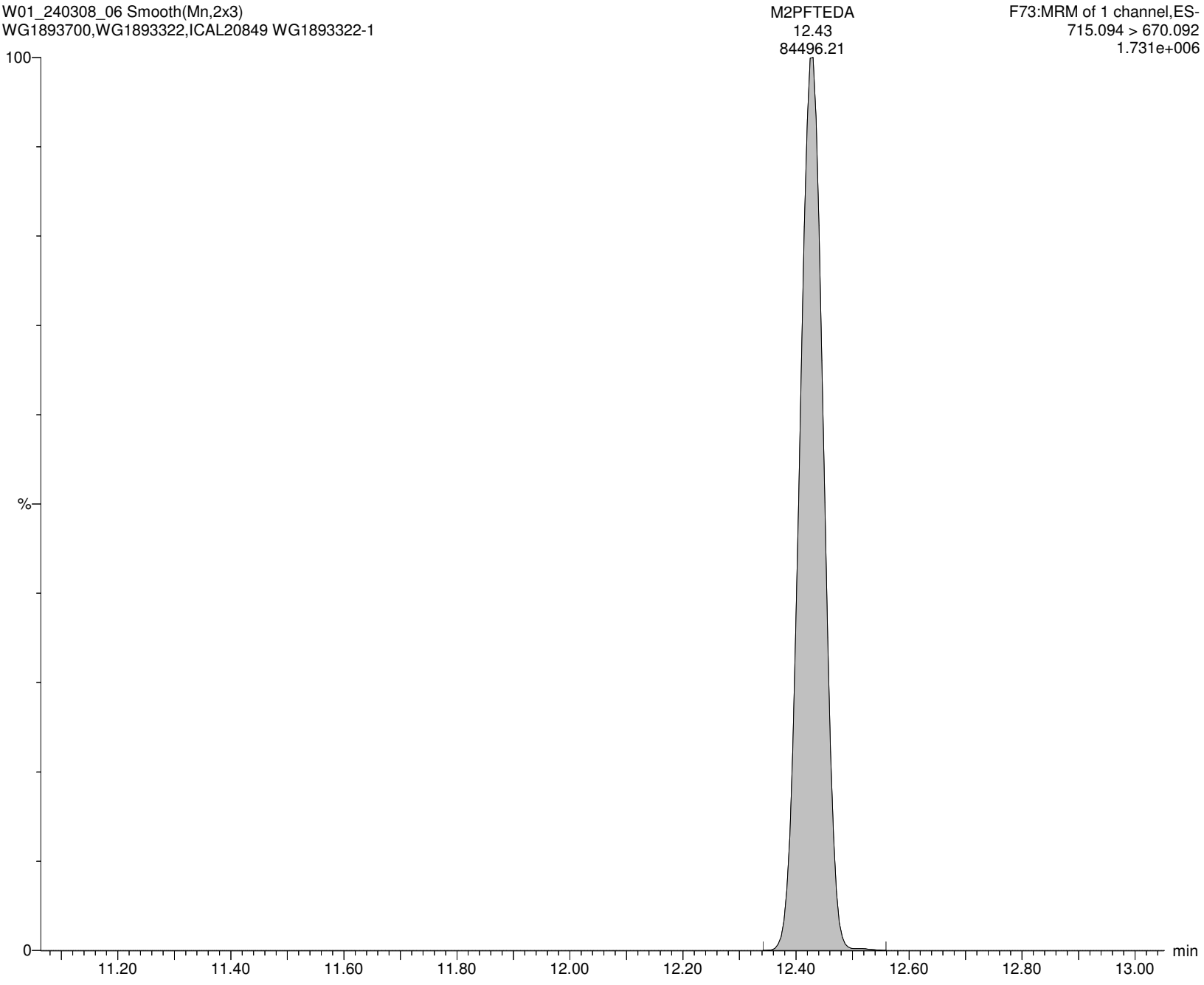

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 15:07:35 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2024\240308_537ISO.PRO\CurveDB\240211_ISO_ICAL.cdb 12 Feb 2024 13:36:43

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Date: 08-Mar-2024
Time: 06:43:04
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	213.032 > 169.022	46792		9.334		na	93.3
2	M3PFBA	INT STD	2.24	216.009 > 171.999	46478		6.060		na	60.6
3	MPFBA	INT STD	2.24	217.001 > 171.999	55347		10.466		na	104.7
4	PFPeA	2706-90-3	5.15	263.039 > 219.03	56536		8.986		na	89.9
5	M5PFPEA	INT STD	5.15	268.001 > 222.999	62235		11.271		na	112.7
6	PFBS	375-73-5	5.79	299.092 > 80.062	18392		8.558	1.85	NO	96.5
7	M3PFBS	INT STD	5.78	302.069 > 80.062	19397		9.514		na	102.1
8	4:2FTS	757124-72-4	6.93	327.146 > 307.139	5840		8.733	1.76	NO	93.2
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	6211		10.338		na	110.2
10	PFHxA	307-24-4	7.01	313.047 > 269.037	72629		9.726	13.54	NO	97.3
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	78639		10.759		na	107.6
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	18575		8.164	1.62	NO	86.8
13	PFHpA	375-85-9	8.25	363.055 > 319.045	71184		9.245	4.29	NO	92.5
14	M4PFHpA	INT STD	8.25	367.025 > 322.022	76625		9.852		na	98.5
15	br-PFHxS	355-46-4	8.17	399.107 > 80.062	3241	M5,M7	1.473	1.86	NO	85.2
16	L-PFHxS	355-46-4	8.40	399.107 > 80.062	14542		6.369	1.53	NO	85.9
17	PFHxS	355-46-4		399.107 > 80.062	17783		7.842		na	
18	M3PFHxS	INT STD	8.40	402.084 > 80.062	19931		10.163		na	107.2
19	br-PFOA	335-67-1		413.063 > 369.053			ND		YES	
20	L-PFOA	335-67-1	9.17	413.063 > 369.053	83583		8.929	9.11	NO	89.3
21	PFOA	335-67-1		413.063 > 369.053	83583		8.929		na	
22	M8PFOA	INT STD	9.17	421.002 > 376.	91048		10.774		na	107.7
23	M2PFOA	INT STD	9.17	415.048 > 370.045	83493		5.624		na	56.2
24	6:2FTS	27619-97-2	9.12	427.161 > 407.155	6134		8.985	3.08	NO	94.5
25	M2-6:2FTS	INT STD	9.12	429.146 > 409.14	7728		11.196		na	117.7
26	PFHpS	375-92-8	9.25	449.115 > 80.062	19594		9.526	1.62	NO	100.0
27	PFNA	375-95-1	9.93	463.071 > 419.061	85988		9.494	5.41	NO	94.9
28	M9PFNA	INT STD	9.93	472.002 > 427.	89891		10.239		na	102.4
29	br-PFOS	1763-23-1	9.79	499.123 > 80.062	5028	M5,M7	1.760	3.79	NO	89.8
30	L-PFOS	1763-23-1	9.98	499.123 > 80.062	15445	M7	6.206	1.72	NO	84.8
31	PFOS	1763-23-1		499.123 > 80.062	20473		7.966		na	
32	M4PFOS	INT STD	9.98	503.093 > 80.062	21466		5.796		na	60.4
33	M8PFOS	INT STD	9.98	507.062 > 80.062	22228		9.706		na	101.2
34	PFDA	335-76-2	10.58	513.078 > 469.069	67432		8.980	3.74	NO	89.8
35	M2PFDA	INT STD	10.58	515.063 > 470.061	75013		5.591		na	55.9
36	M6PFDA	INT STD	10.58	519.033 > 474.03	77155		10.317		na	103.2
37	8:2FTS	39108-34-4	10.57	527.177 > 507.171	6154		9.034	2.62	NO	94.1
38	M2-8:2FTS	INT STD	10.57	529.162 > 509.155	8058		11.040		na	115.0
39	PFNS	68259-12-1	10.61	549.131 > 80.062	20004		8.120	2.19	NO	84.4

all concentration units in (ng/mL)

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ID: WG1893322-2
Name: W01_240308_07
Date: 08-Mar-2024
Time: 06:43:04
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.22 > 419.061	13179		11.473		na	114.7
41	br-NMeFOSAA	2355-31-9	10.79	570.202 > 419.061	761	M5,M7	1.955	1.04	NO	81.5
42	L-NMeFOSAA	2355-31-9	10.96	570.202 > 419.061	6164		6.798	2.19	NO	89.4
43	NMeFOSAA	2355-31-9		570.202 > 419.061	6925		8.752		na	
44	PFUnA	2058-94-8	11.14	563.086 > 519.076	80894		8.884	6.40	NO	88.8
45	M7-PFUDA	INT STD	11.14	570.033 > 525.031	87970		10.796		na	108.0
46	PFDS	335-77-3	11.15	598.926 > 80.062	18669		8.405	1.88	NO	87.1
47	FOSA	754-91-6	10.90	498.146 > 78.07	32822		8.313	38.11	NO	83.1
48	M8FOSA	INT STD	10.90	506.077 > 78.07	35778		6.506		na	65.1
49	d5-NEtFOSAA	INT STD	11.25	589.259 > 419.061	11481		10.605		na	106.0
50	br-NEtFOSAA	2991-50-6	11.11	584.229 > 419.061	809	M5,M7	1.870	0.70	NO	83.1
51	L-NEtFOSAA	2991-50-6	11.26	584.229 > 419.061	6156		6.686	1.37	NO	86.3
52	NEtFOSAA	2991-50-6		584.229 > 419.061	6965		8.556		na	
53	PFDoA	307-55-1	11.63	613.094 > 569.084	85189		8.874	7.91	NO	88.7
54	MPFDOA	INT STD	11.63	615.079 > 570.077	88949		9.726		na	97.3
55	PFTrDA	72629-94-8	12.06	663.102 > 619.092	80929		12.522	8.53	NO	125.2
56	PFTA	376-06-7	12.44	713.11 > 669.1	82115		9.066	14.21	NO	90.7
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	81708		9.907		na	99.1

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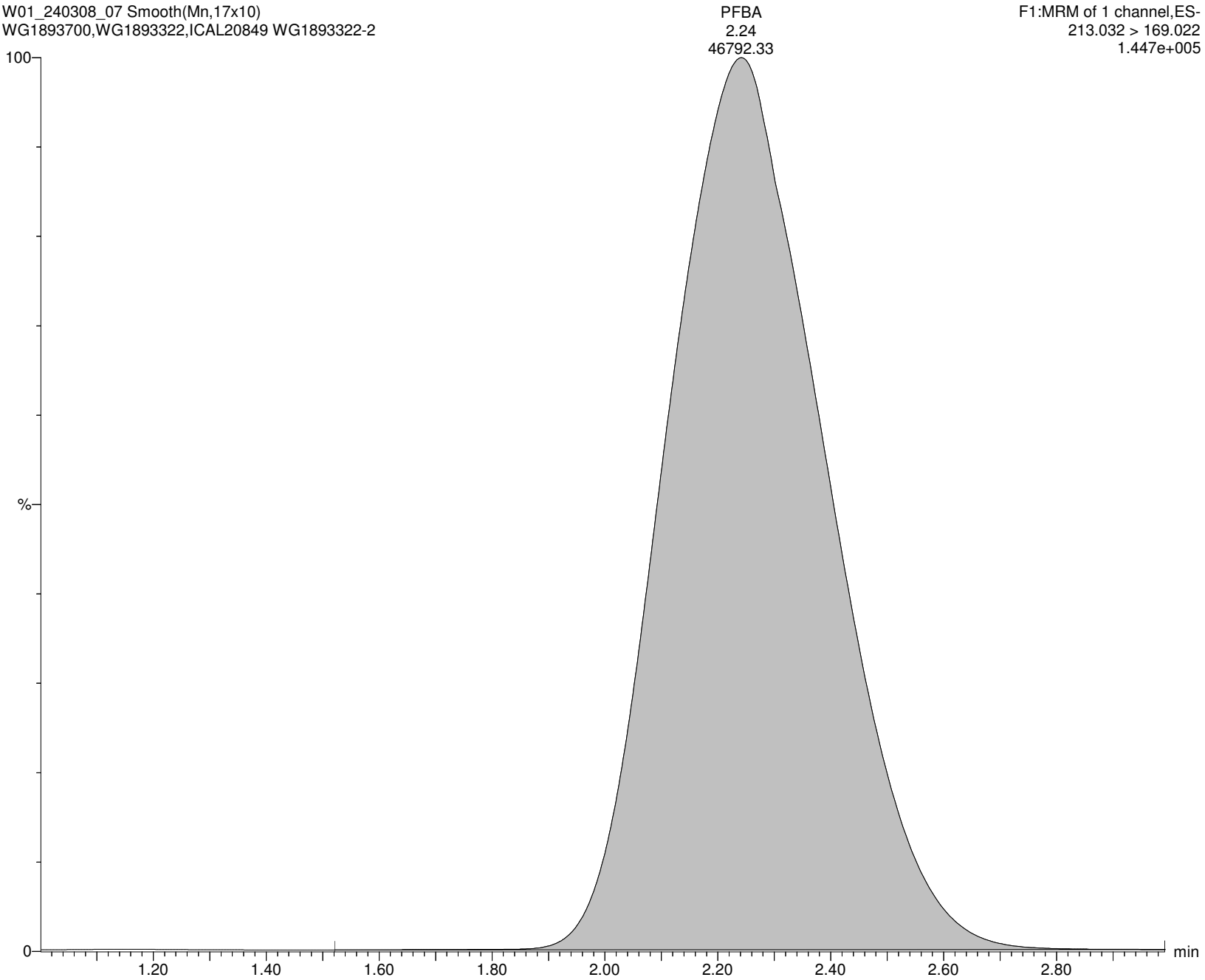

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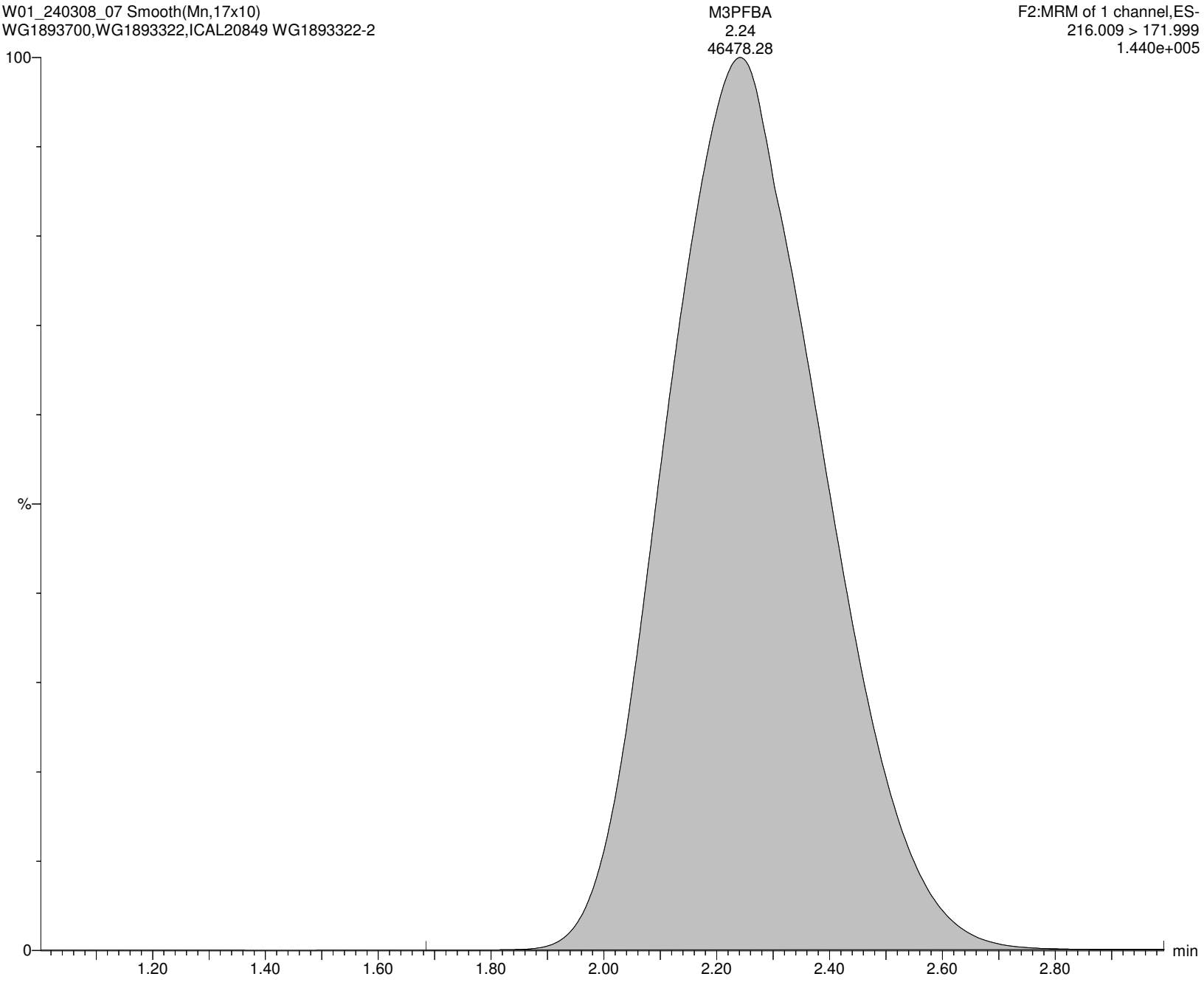

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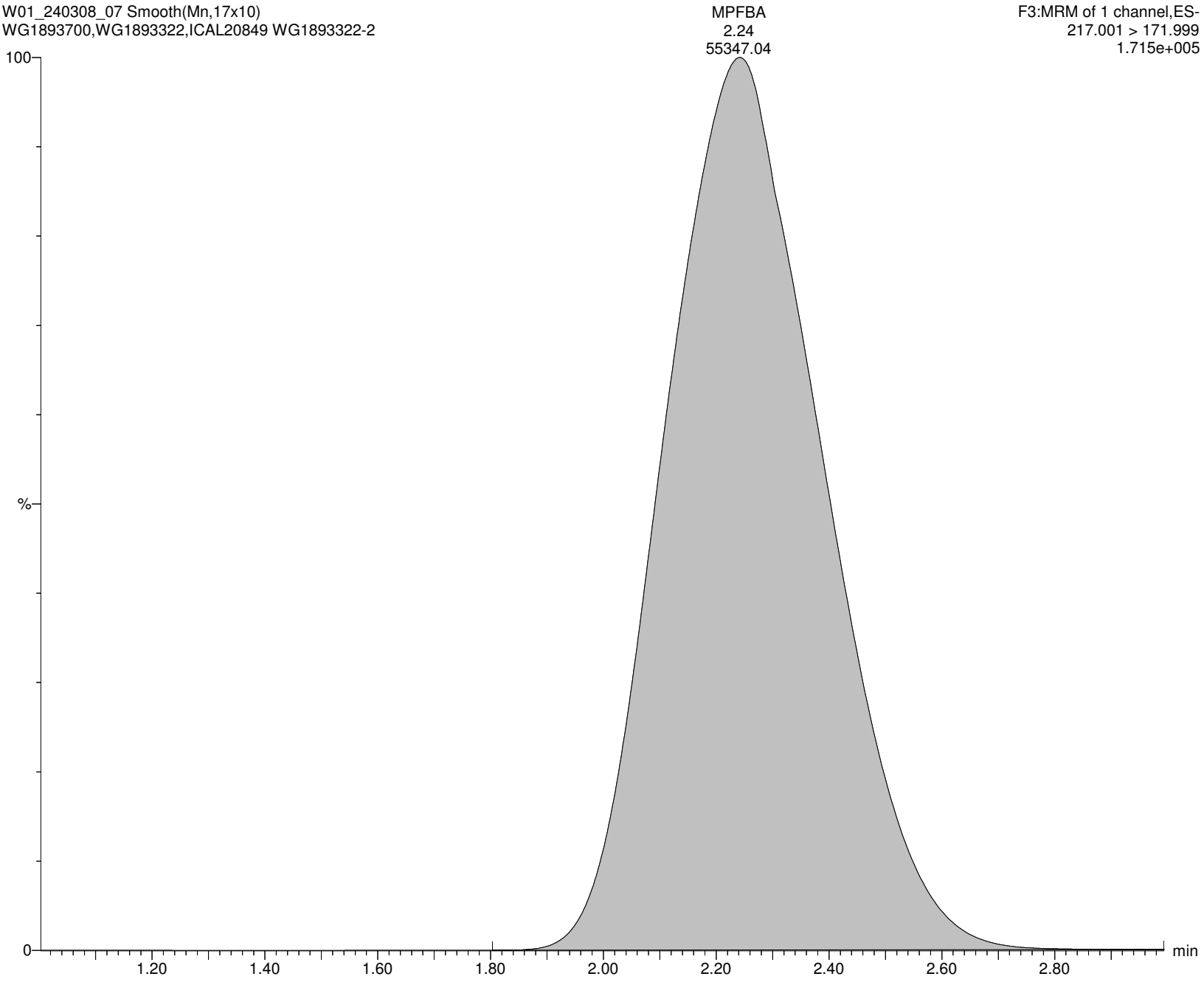

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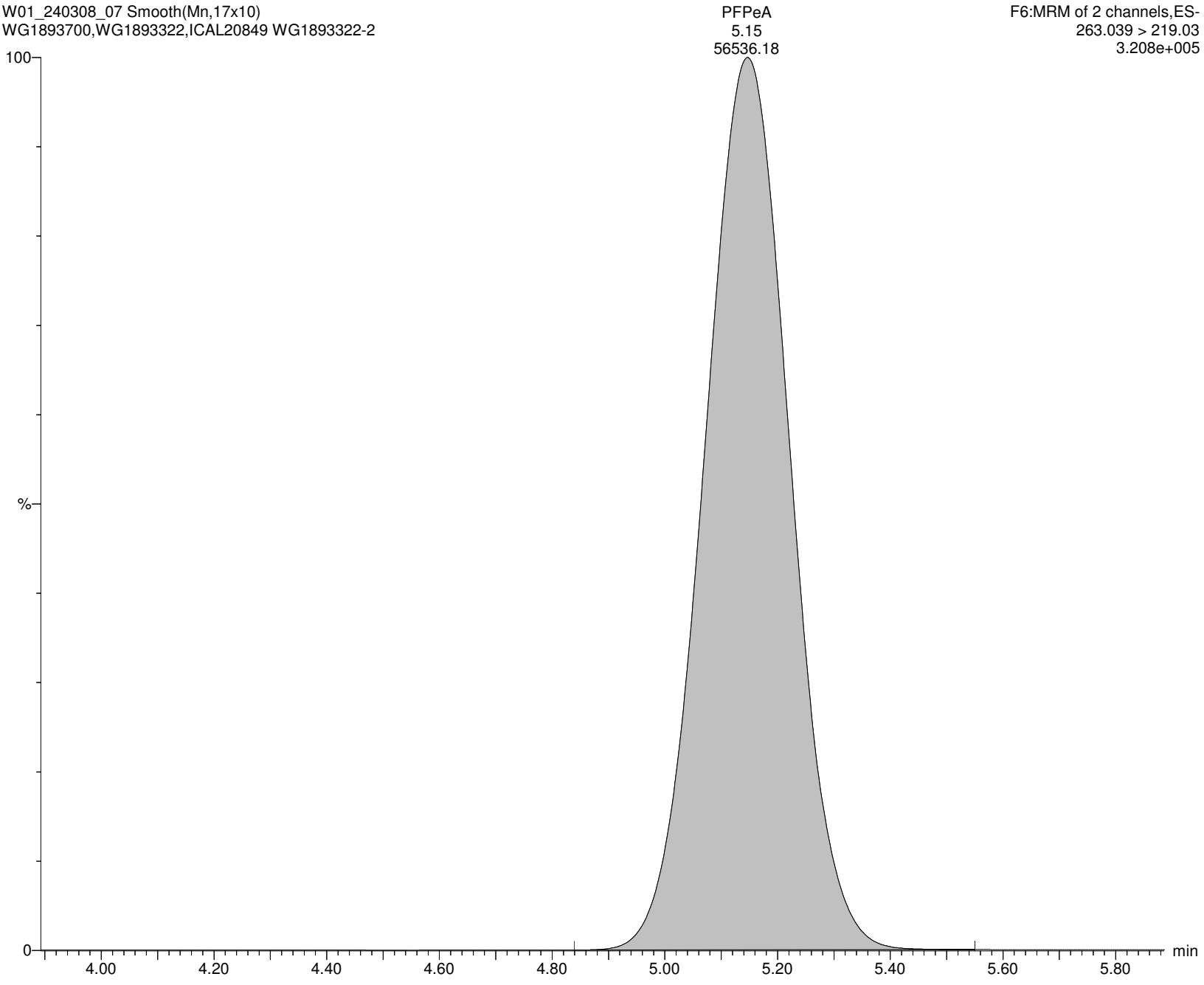

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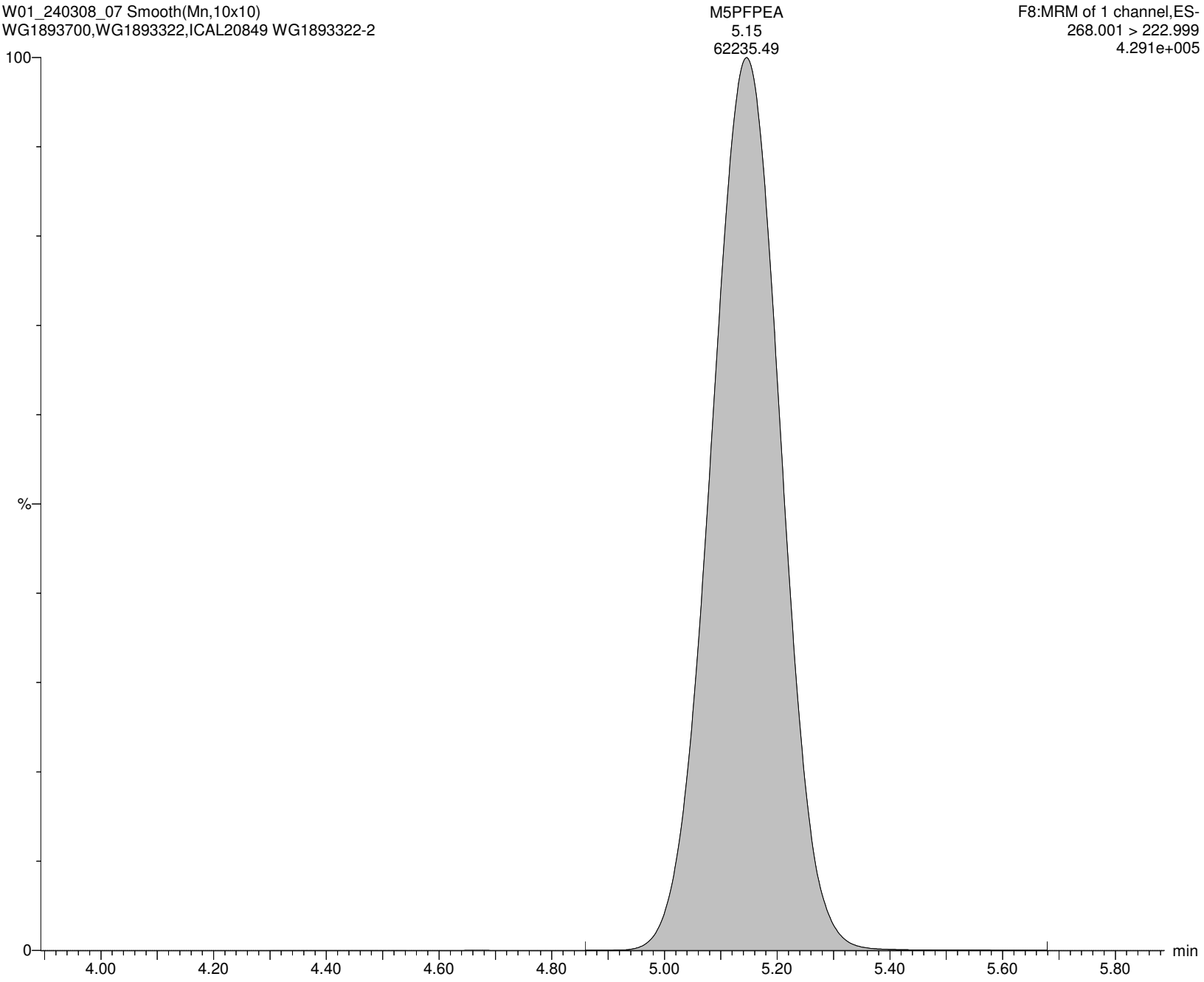

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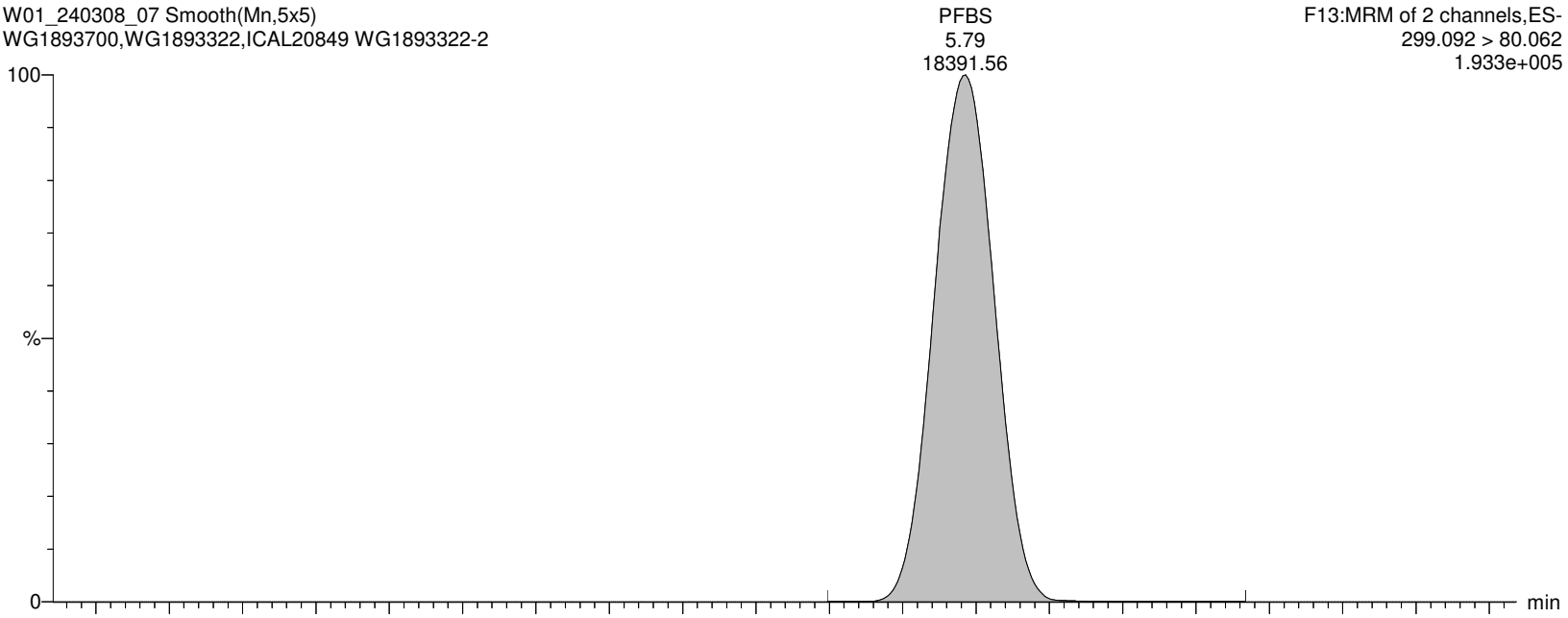

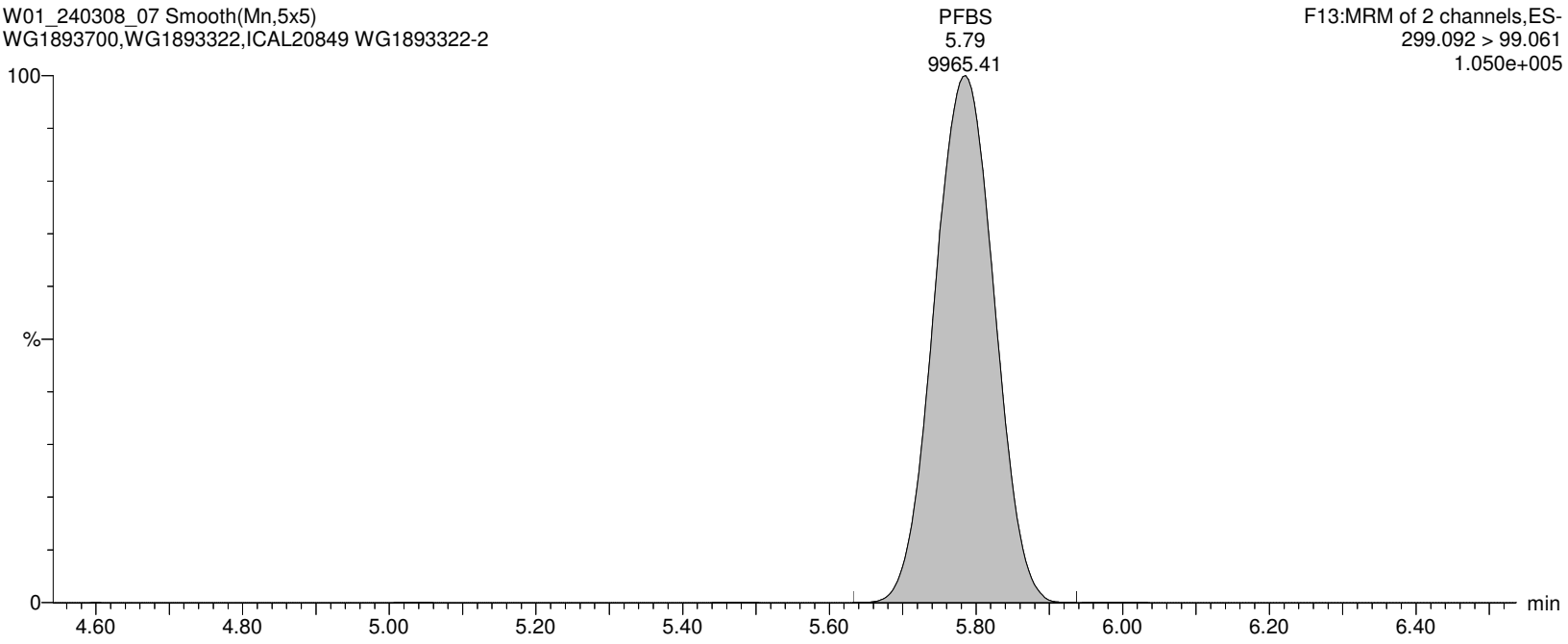

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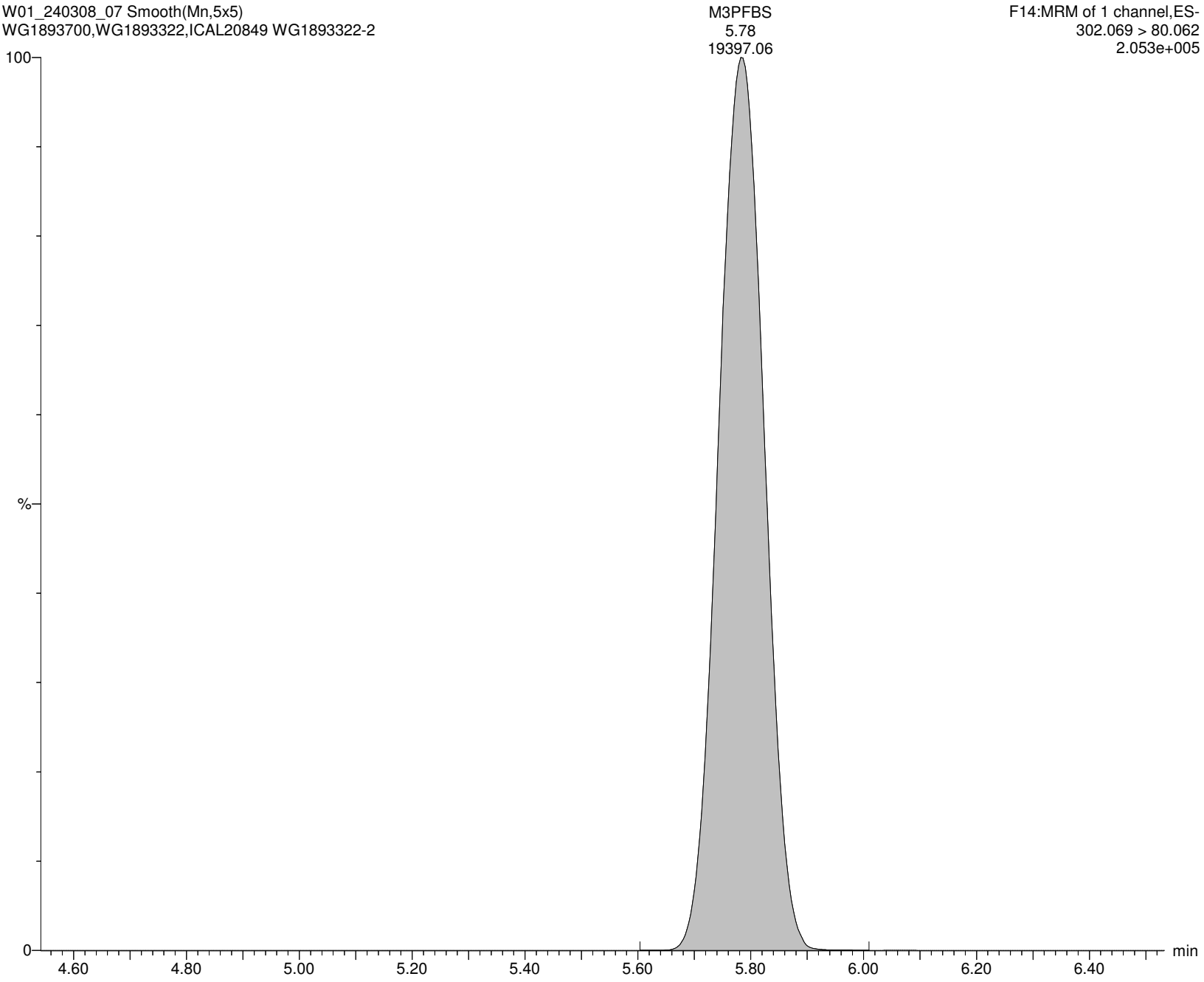

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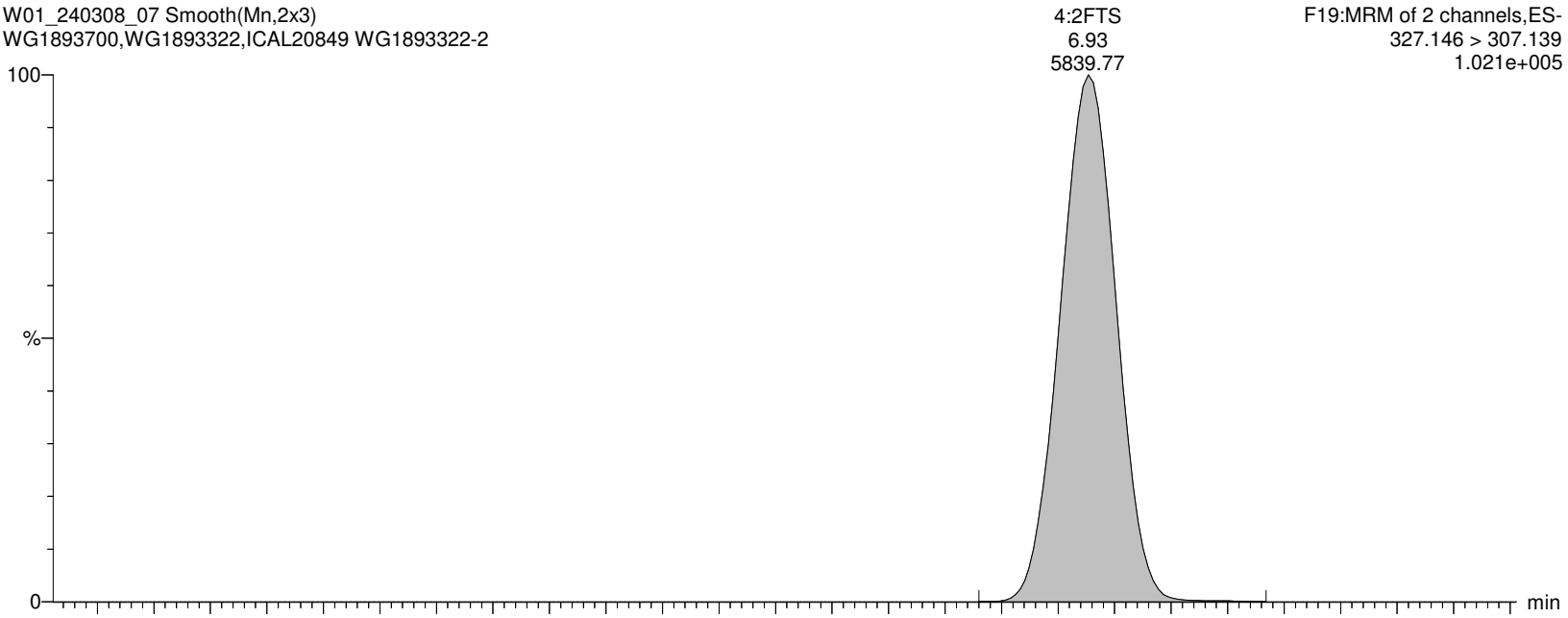

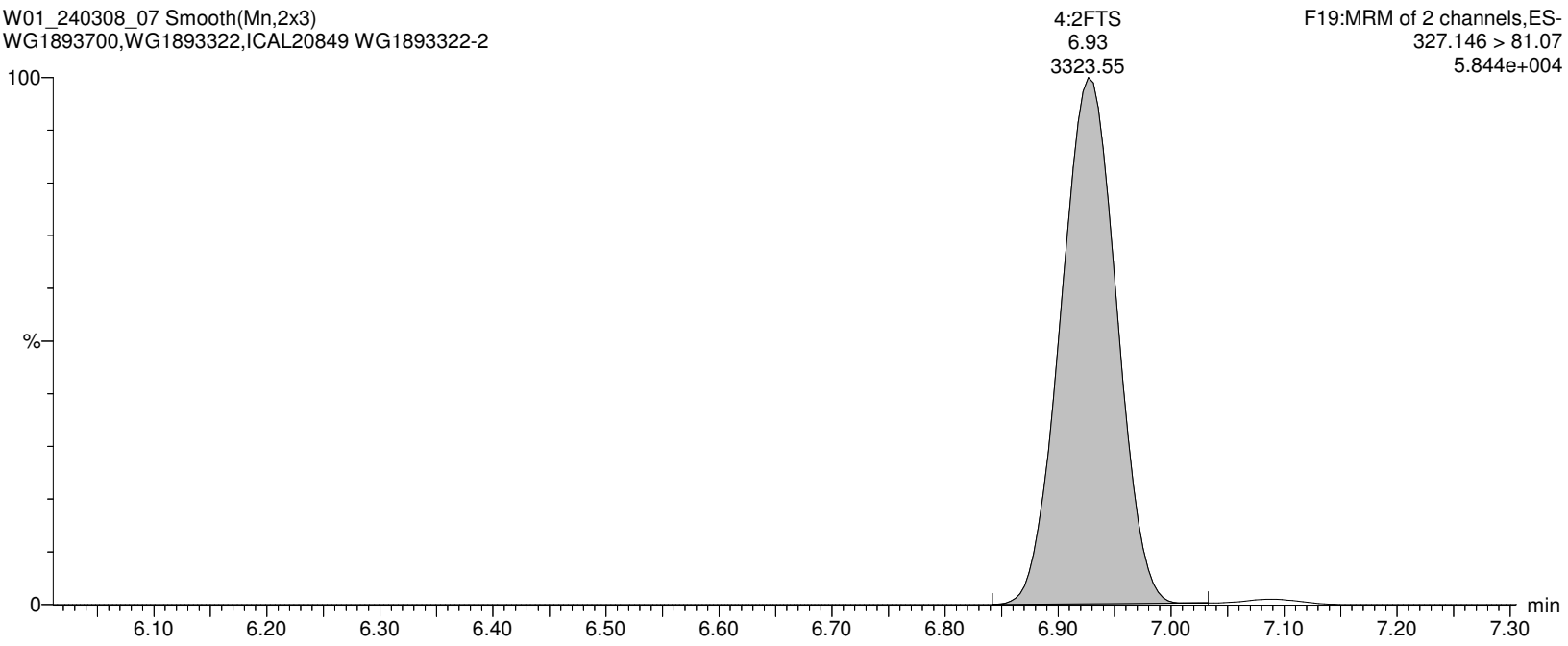

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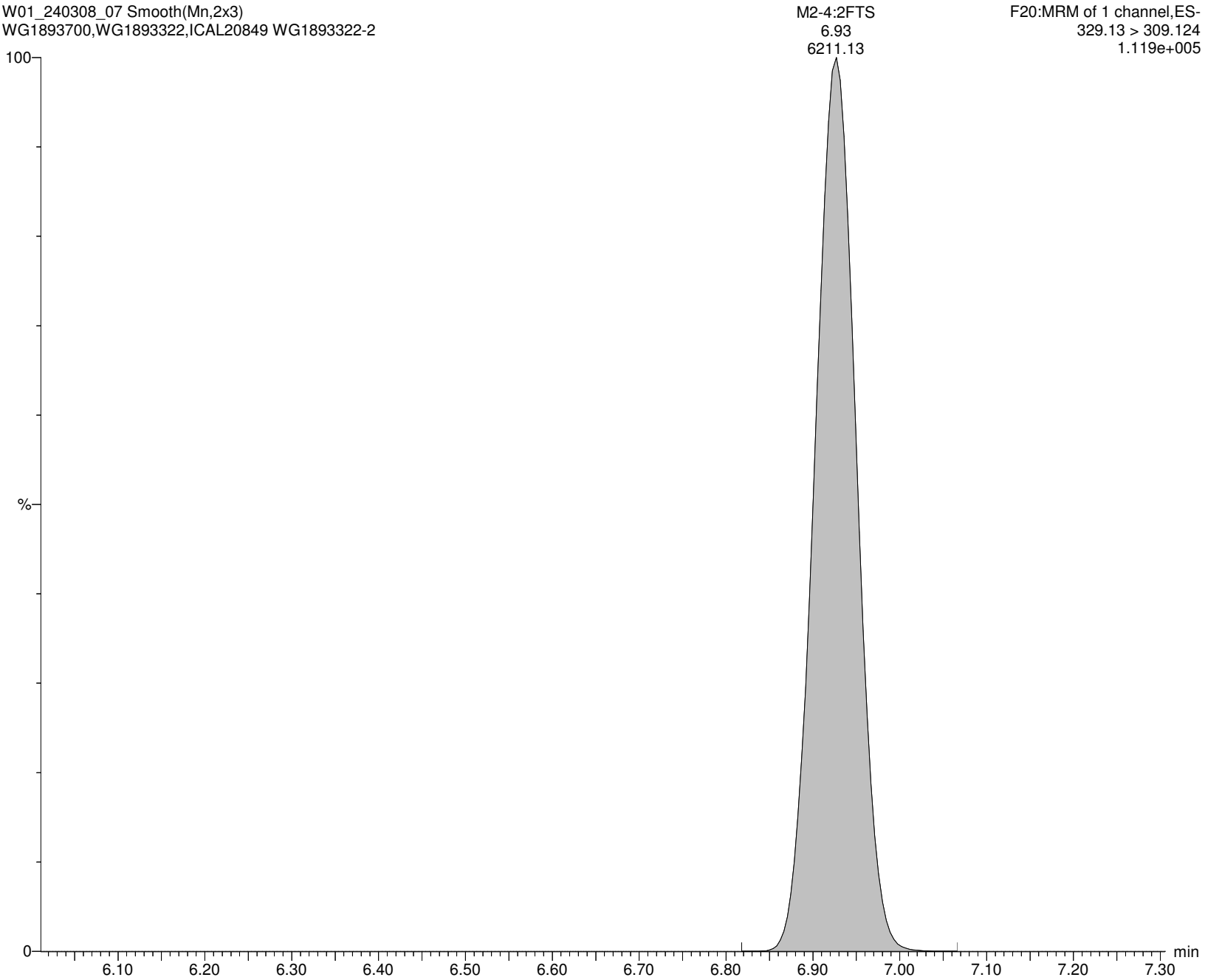

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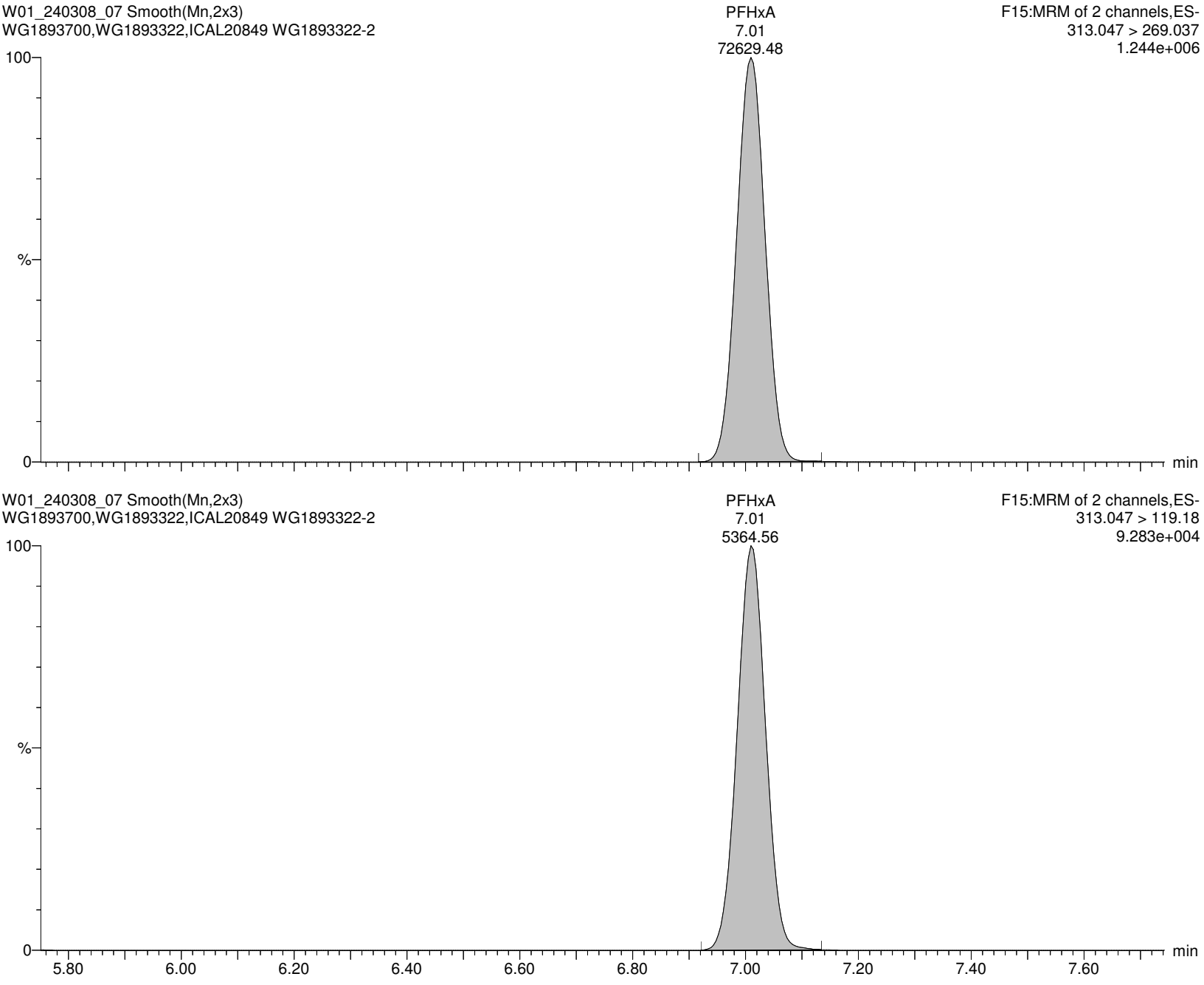

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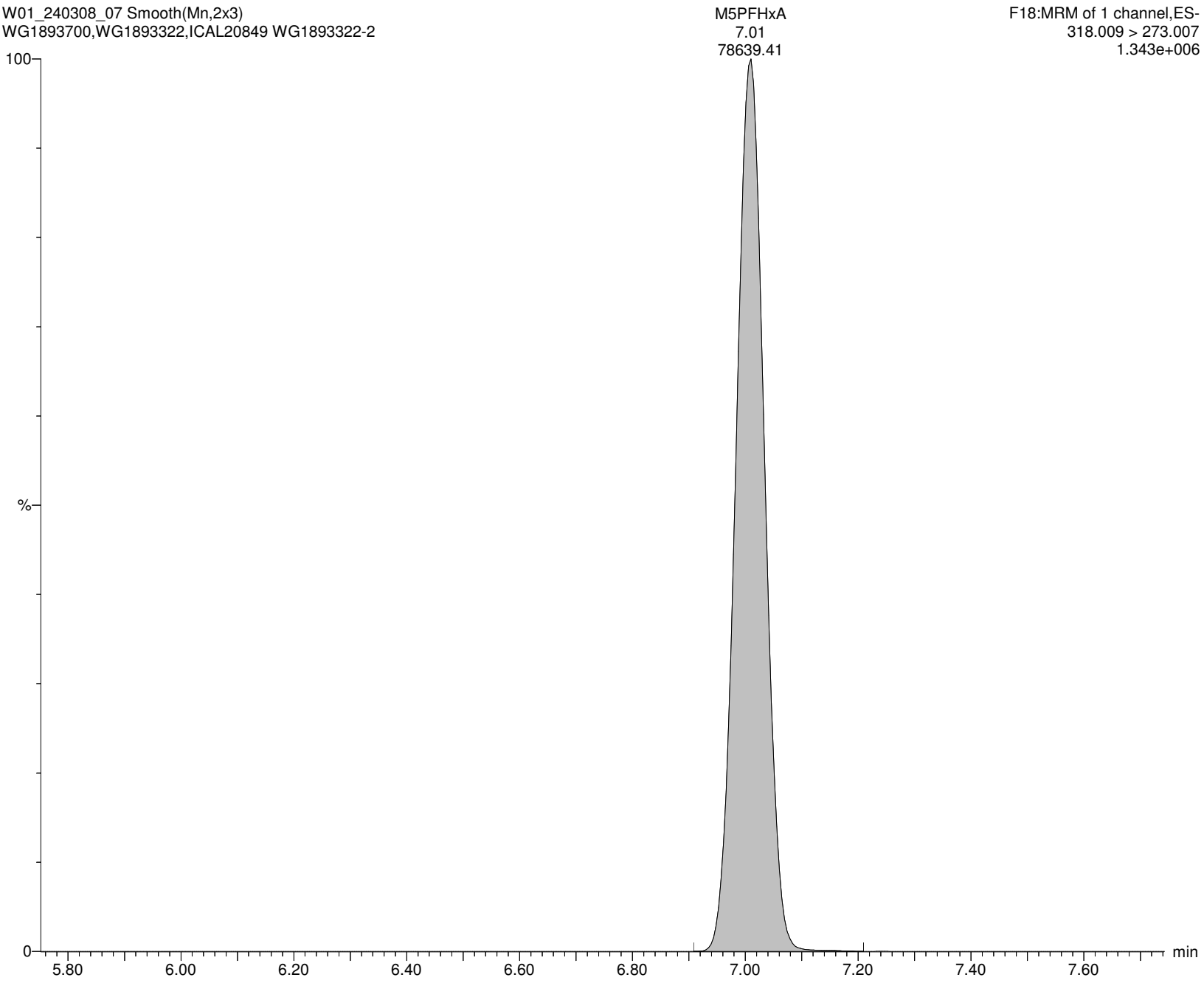

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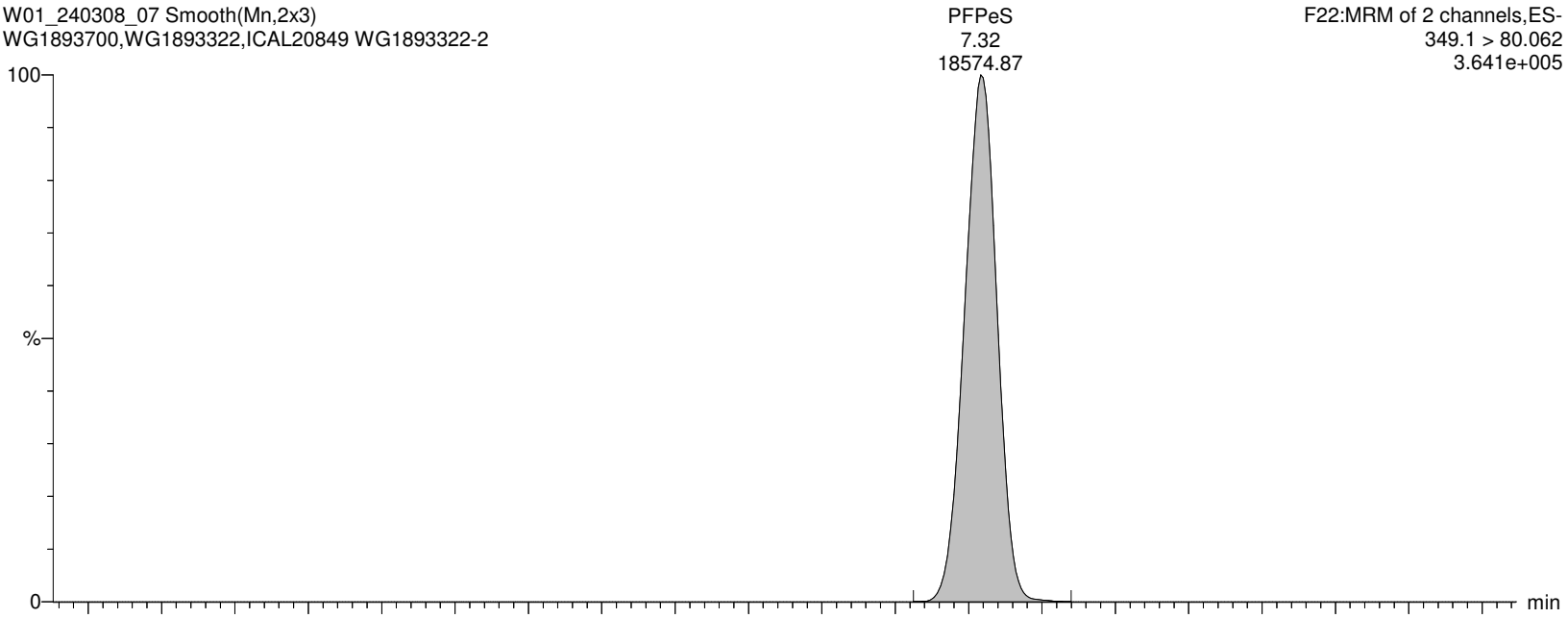
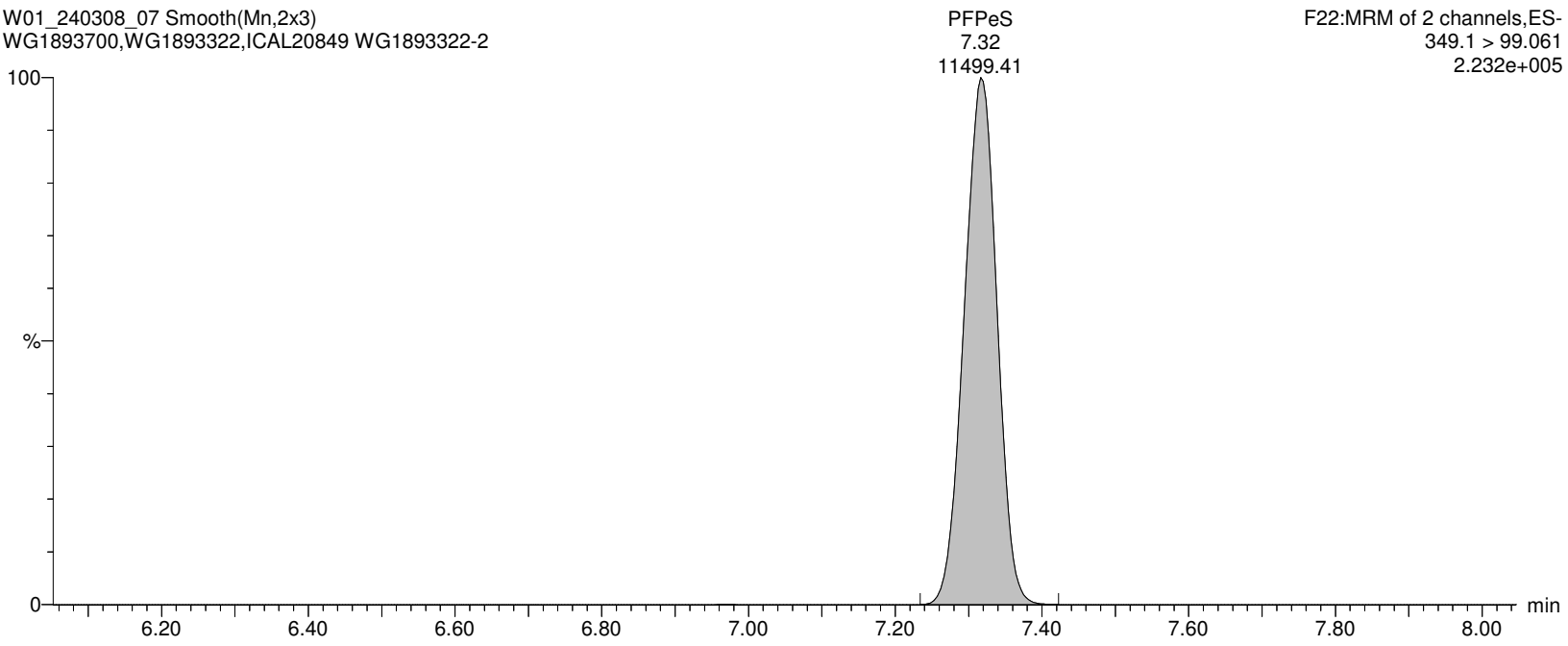
PFPeS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Name: W01_240308_07
ID: WG1893322-2
Date: 08-Mar-2024
Time: 06:43:04
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,2
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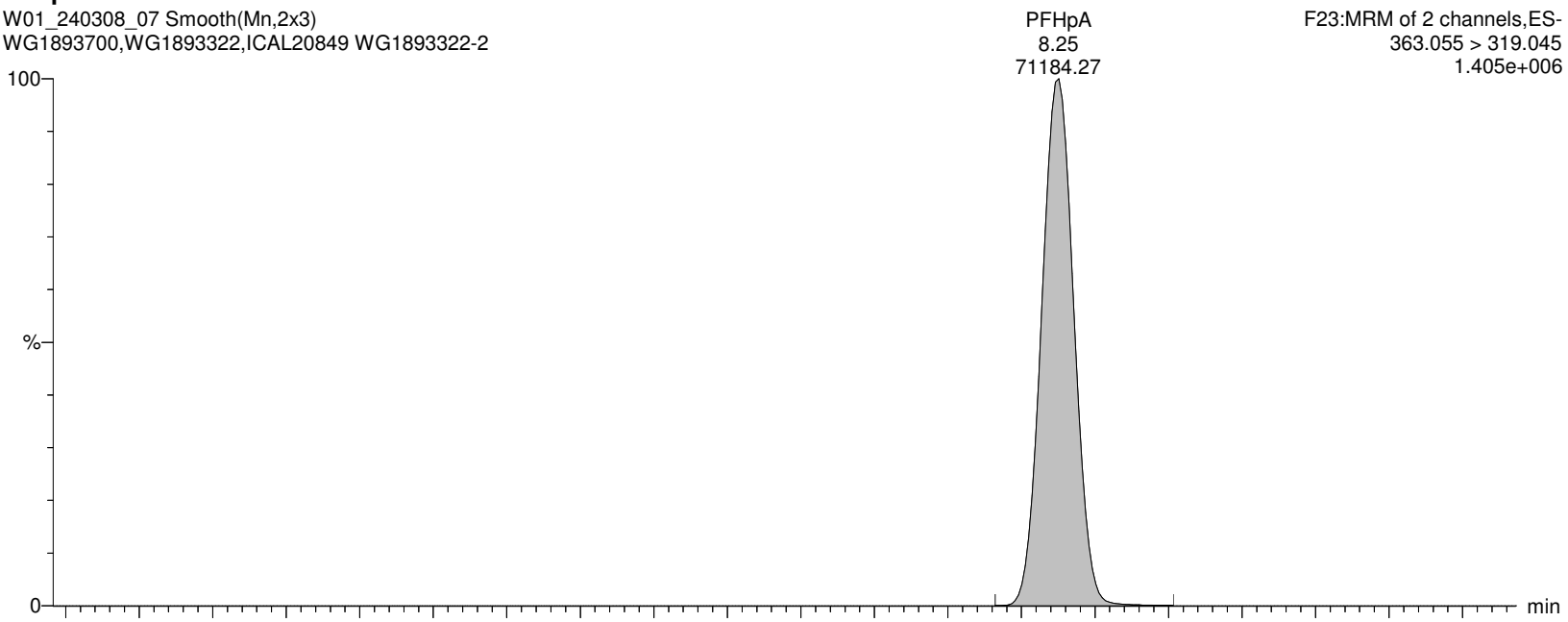

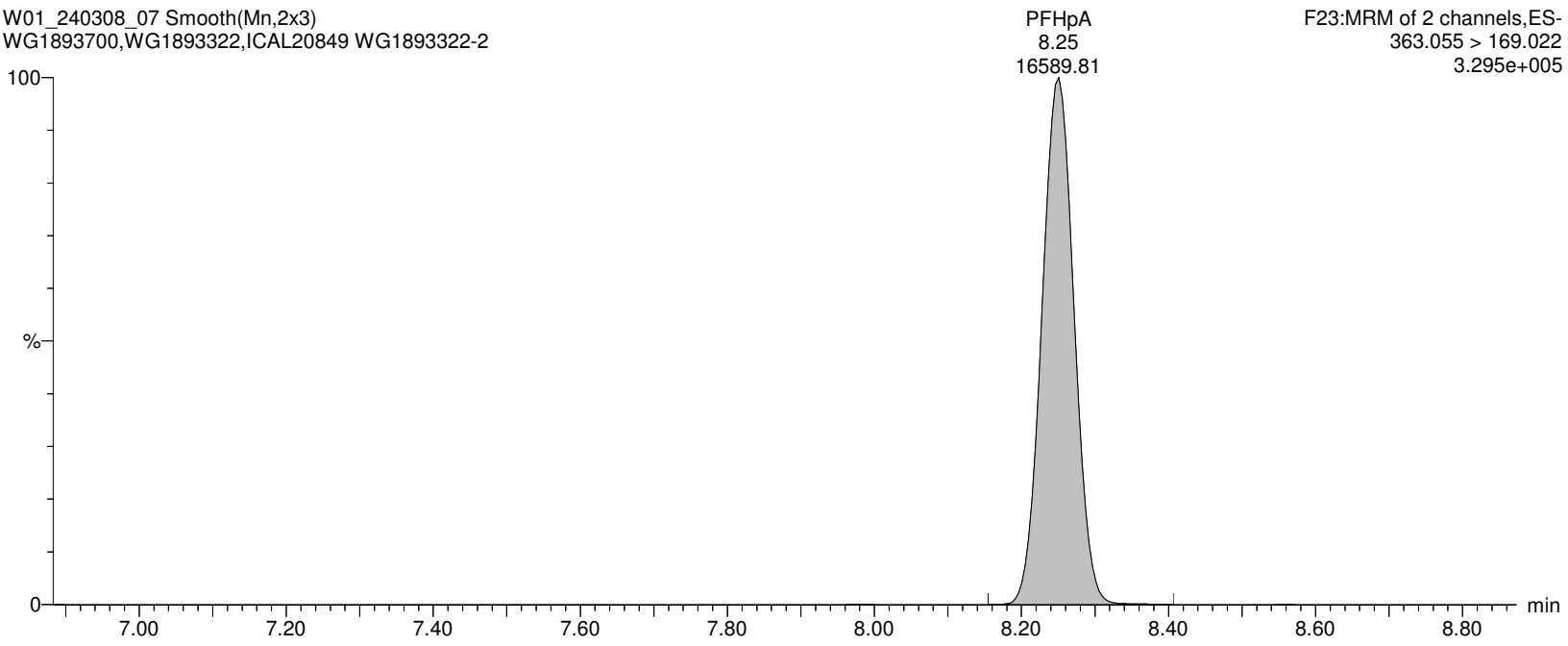

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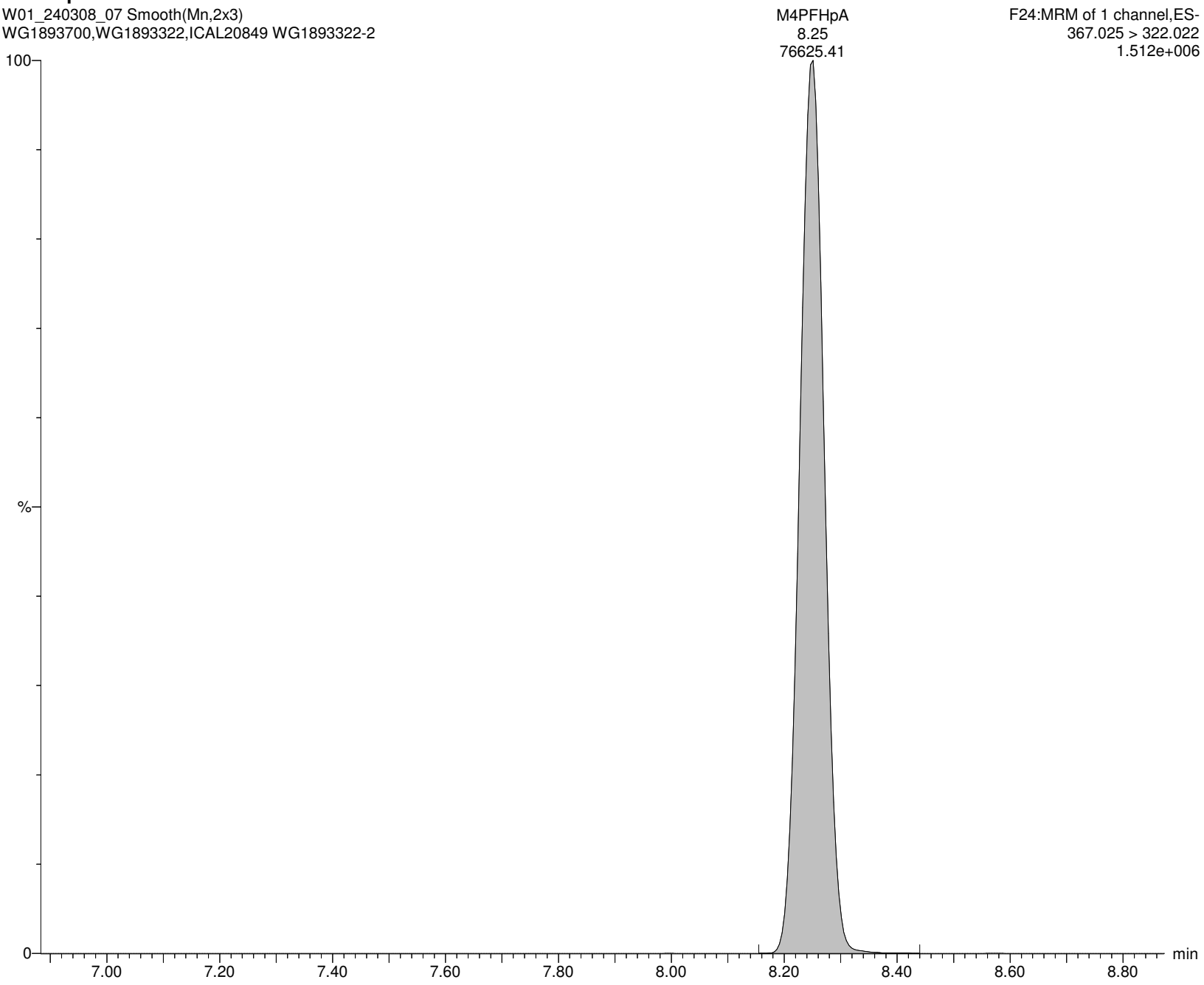

all concentration units in (ng/mL)

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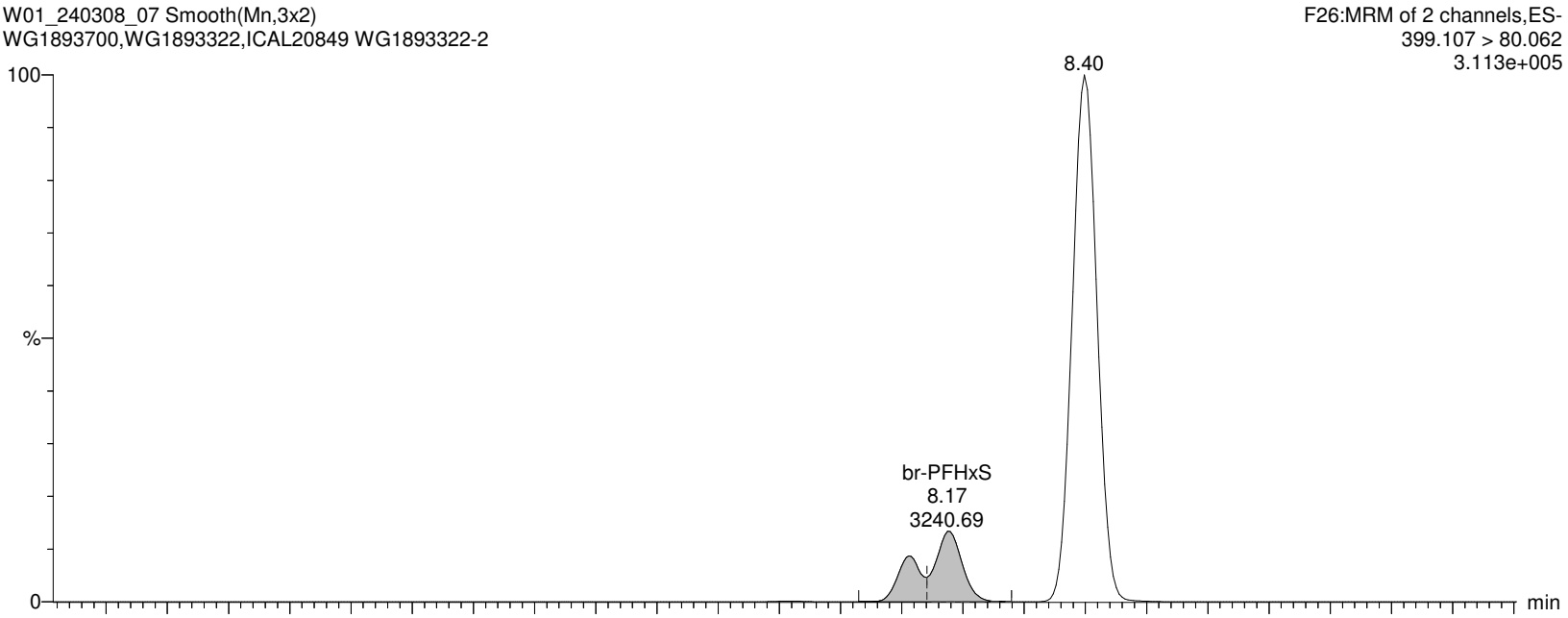

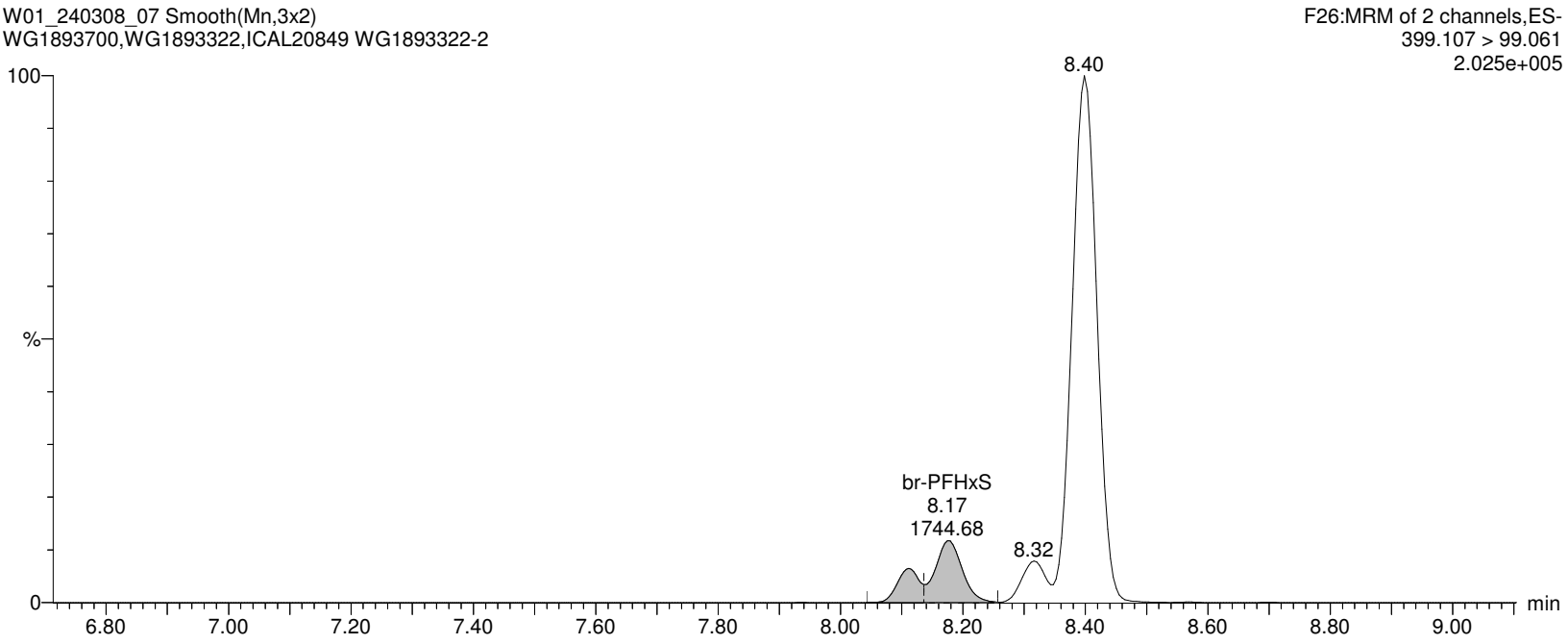

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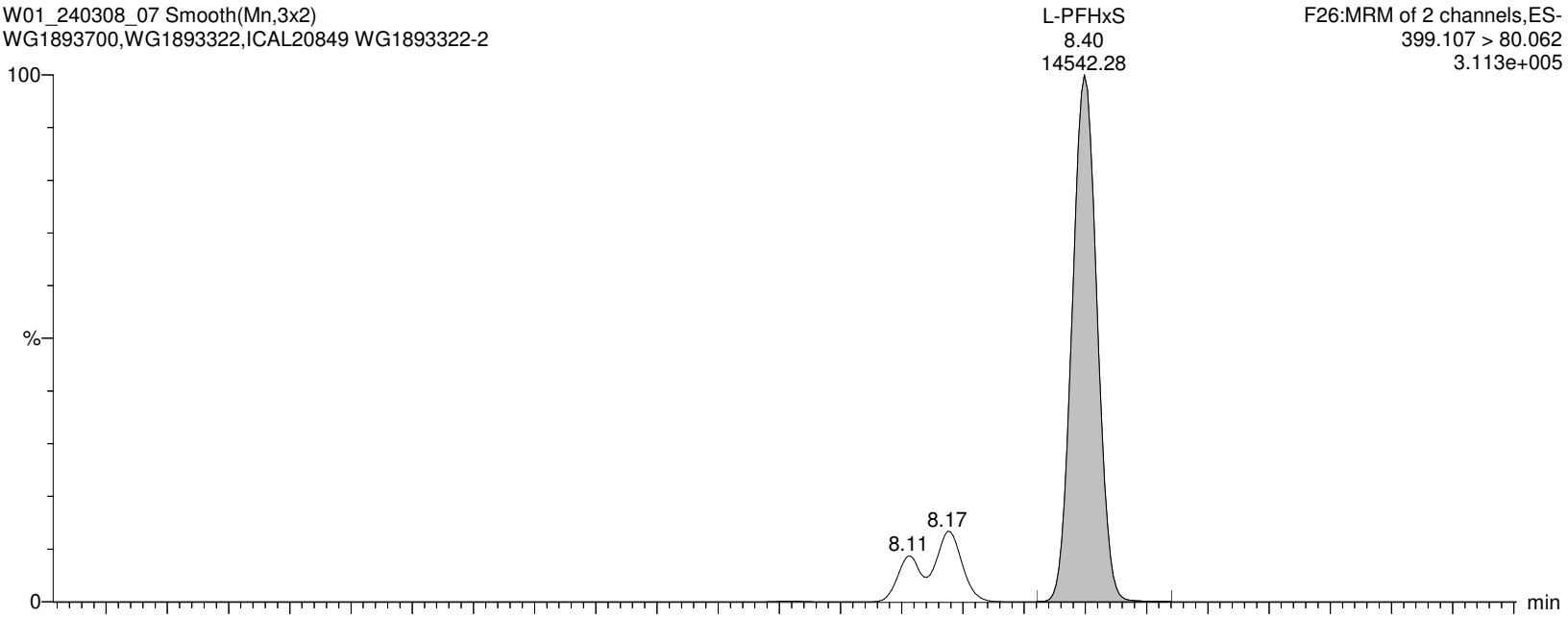

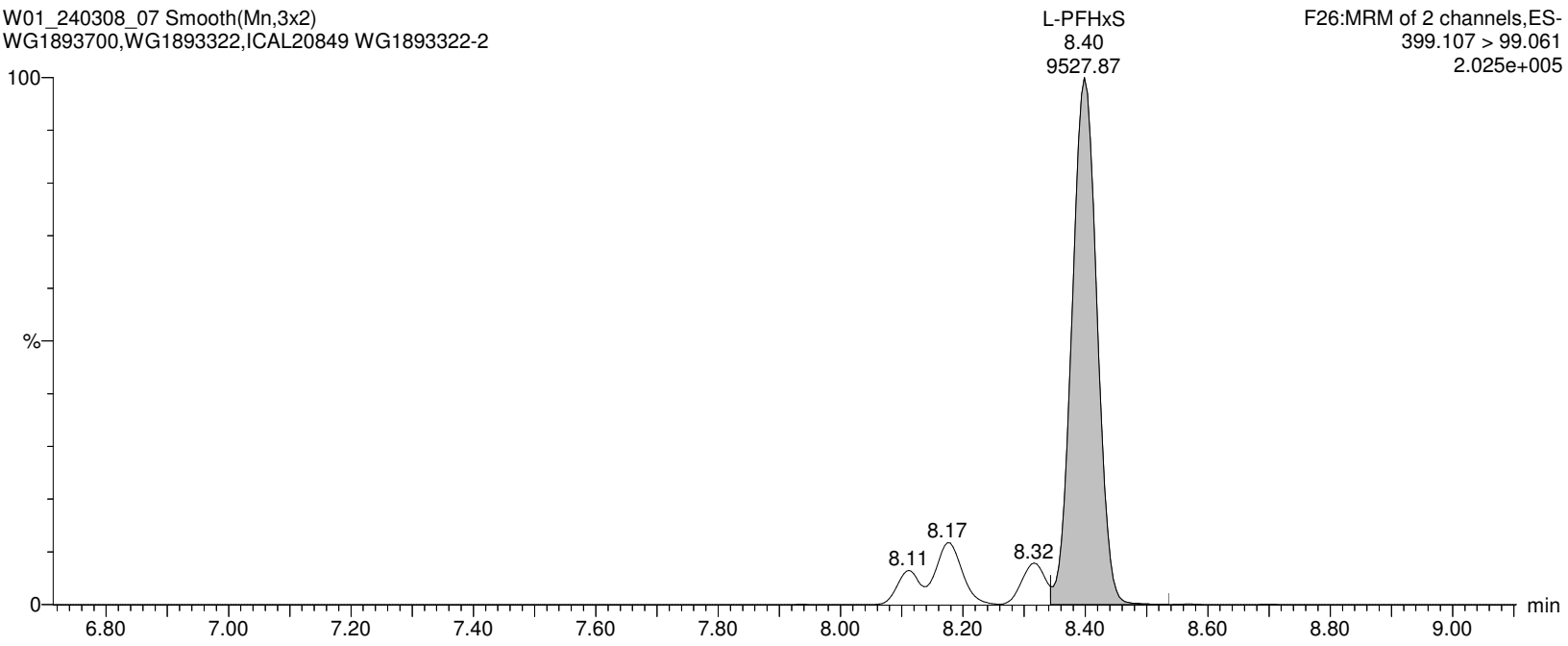

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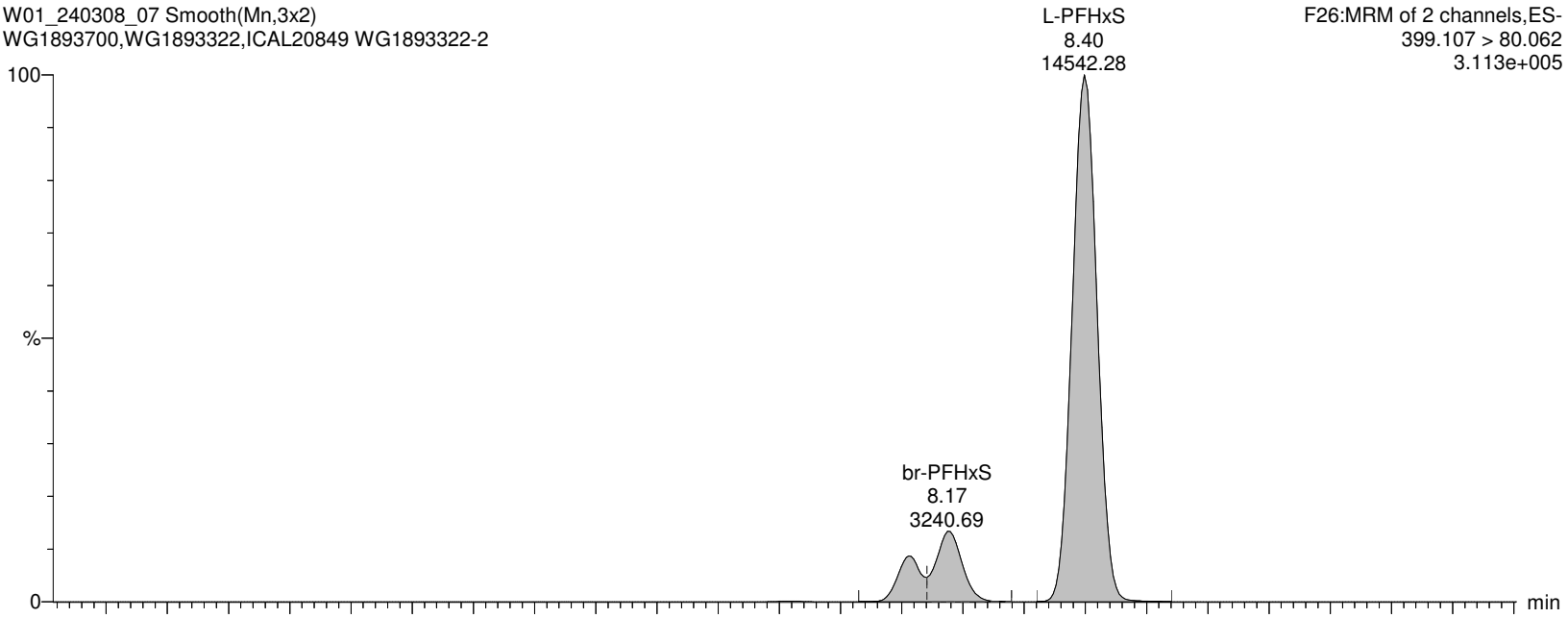

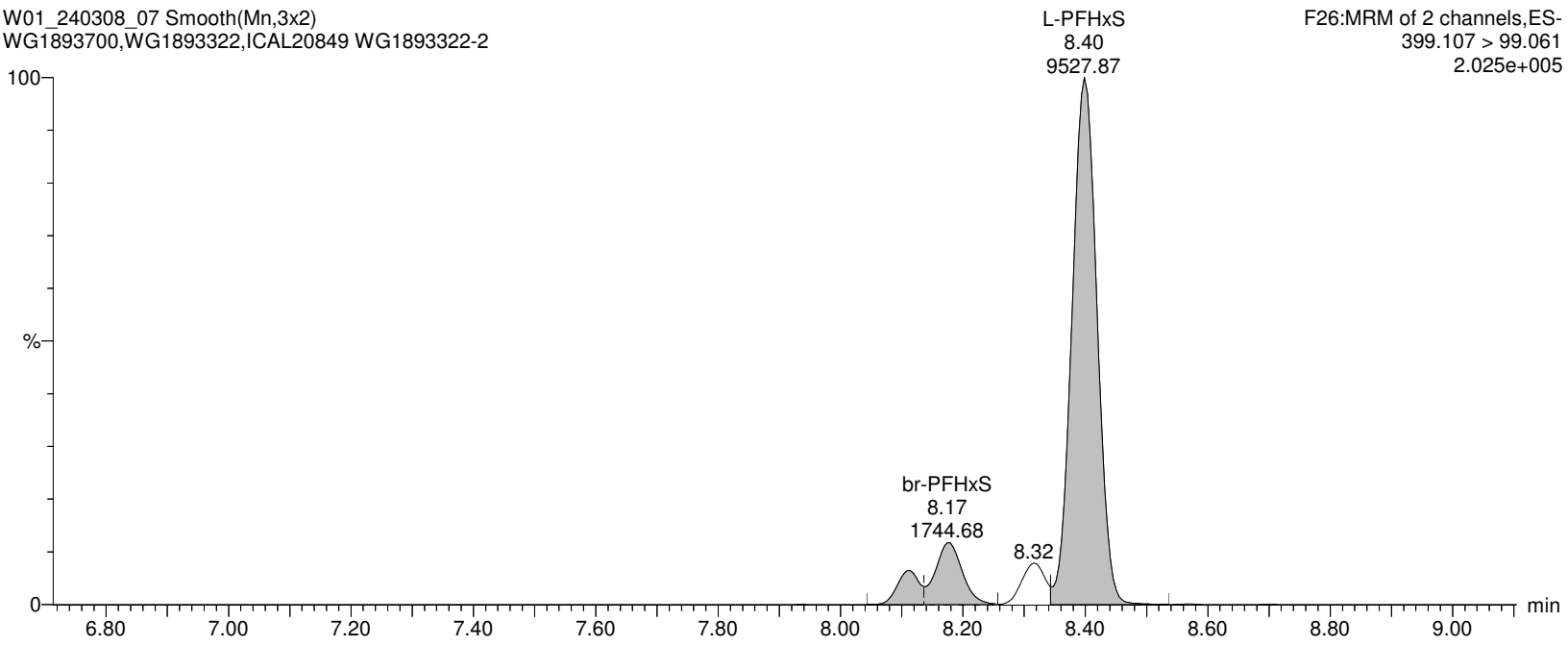

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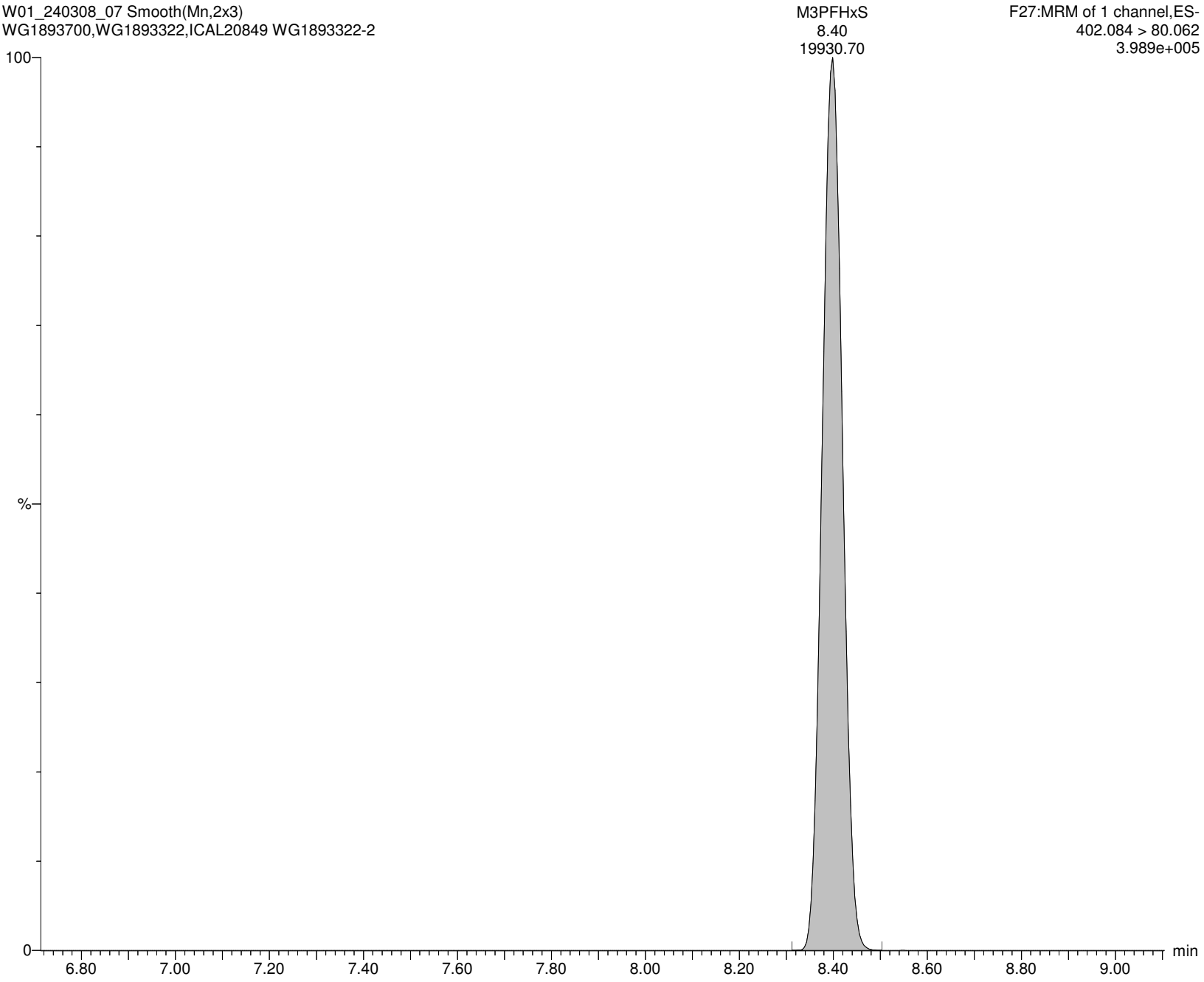

all concentration units in (ng/mL)

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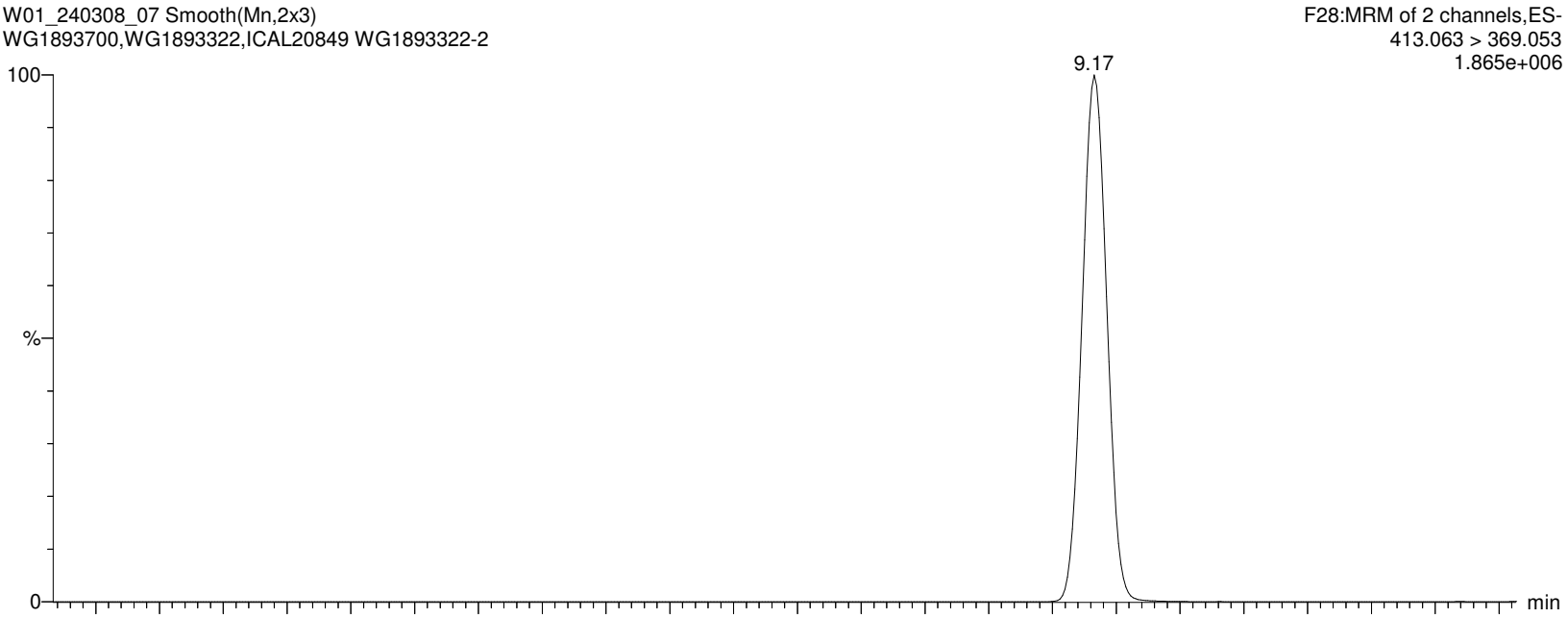

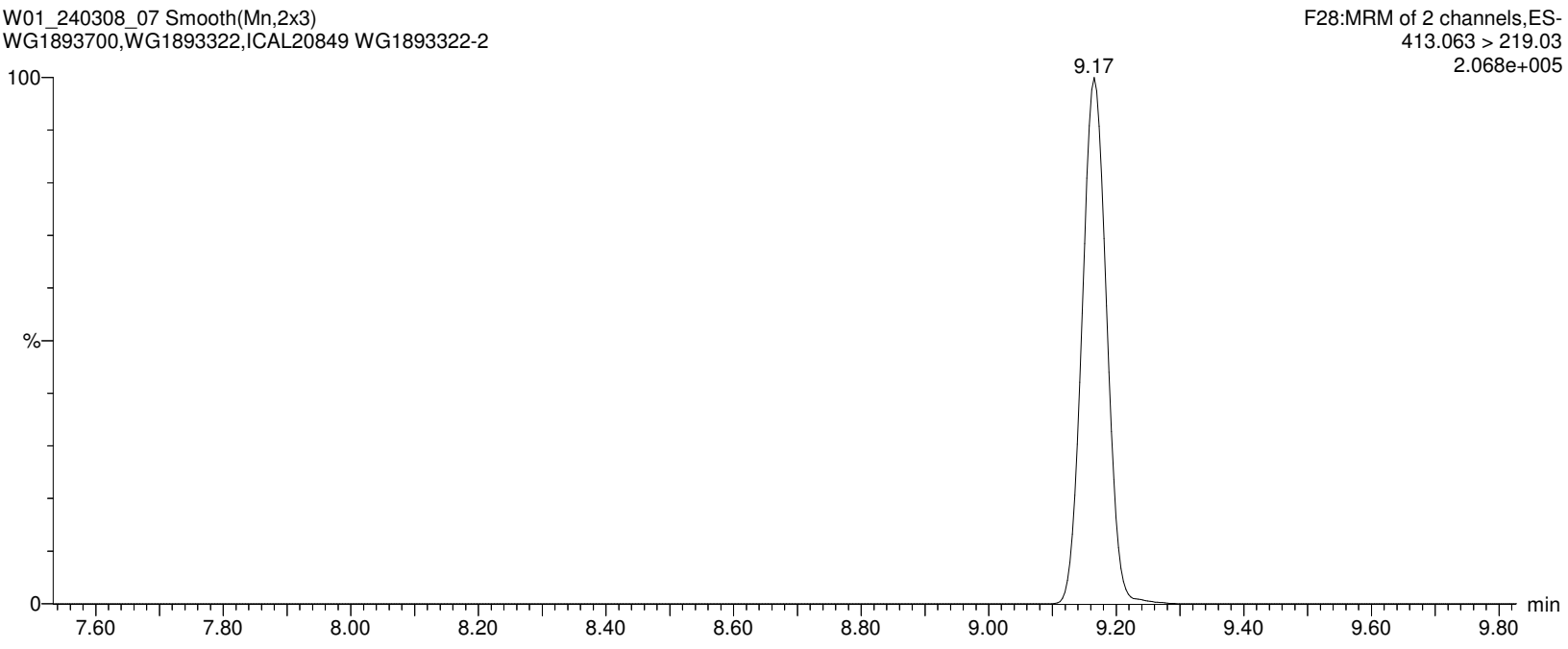

all concentration units in (ng/mL)

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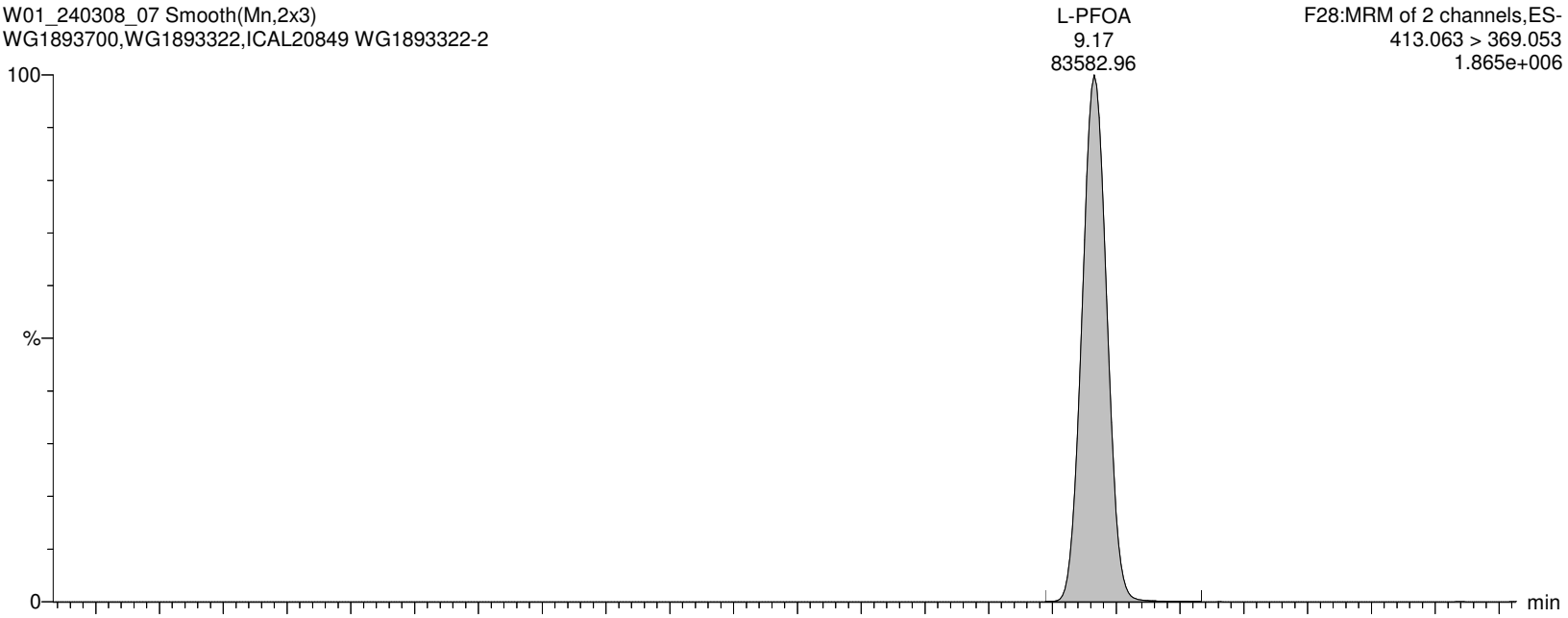

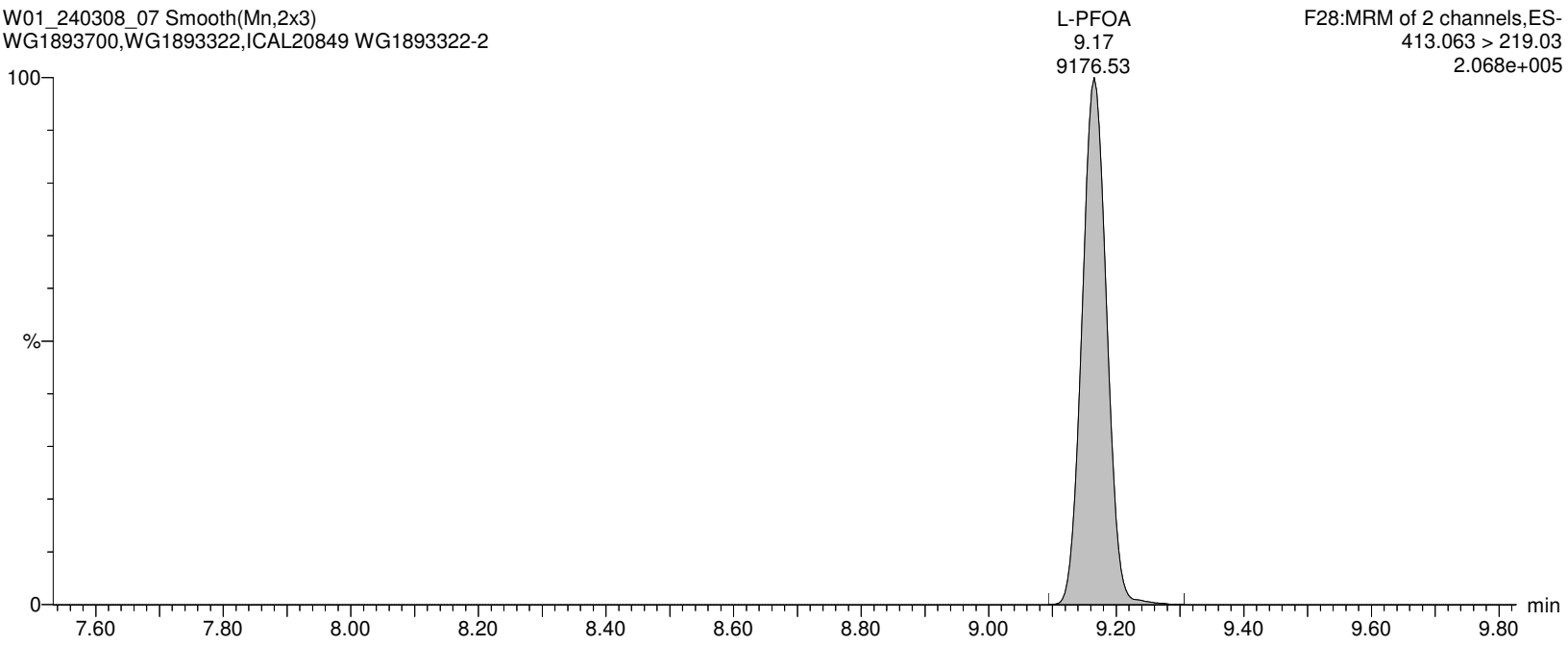

all concentration units in (ng/mL)

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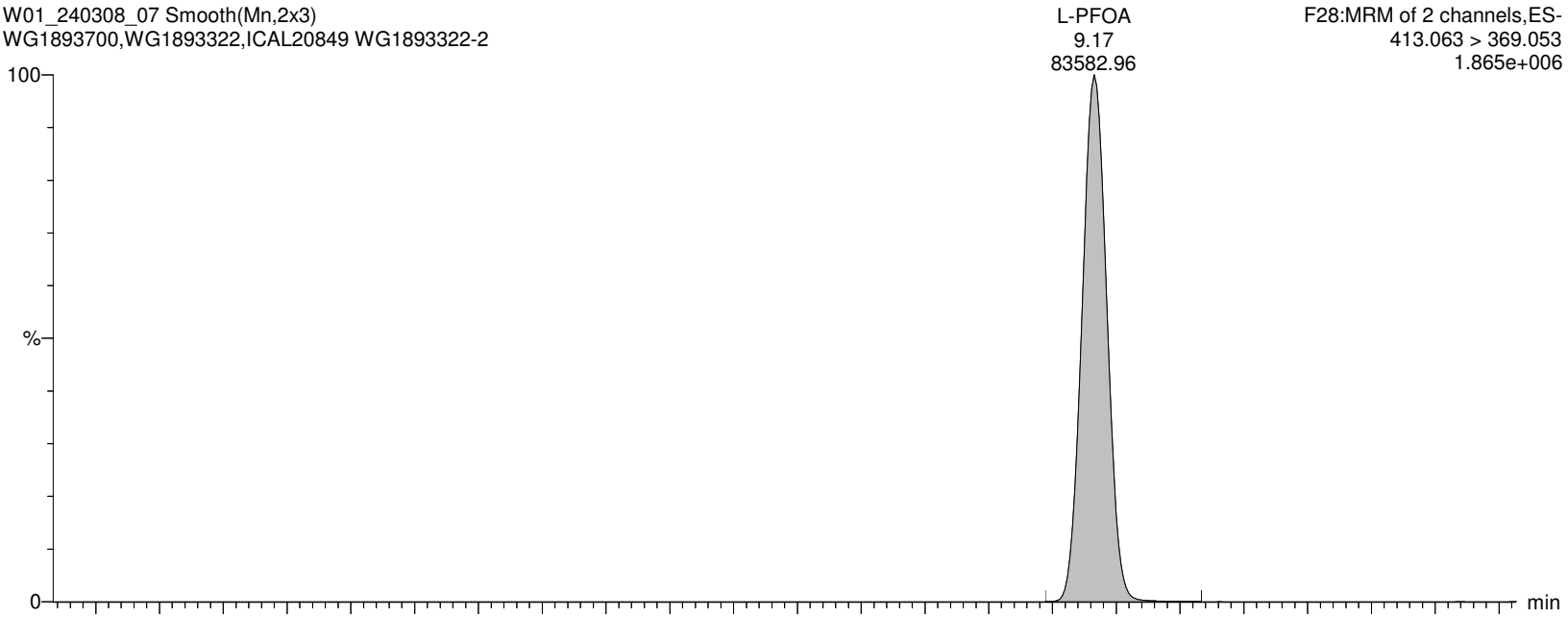

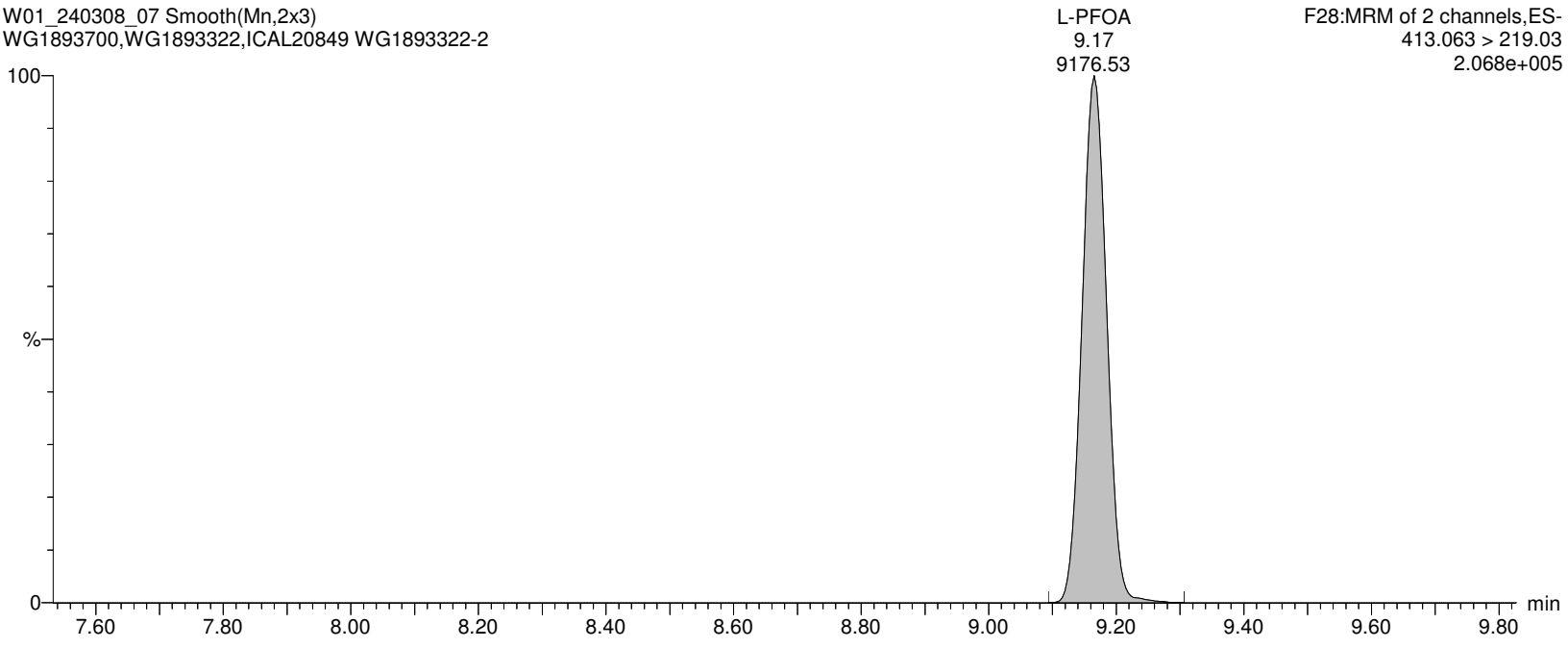

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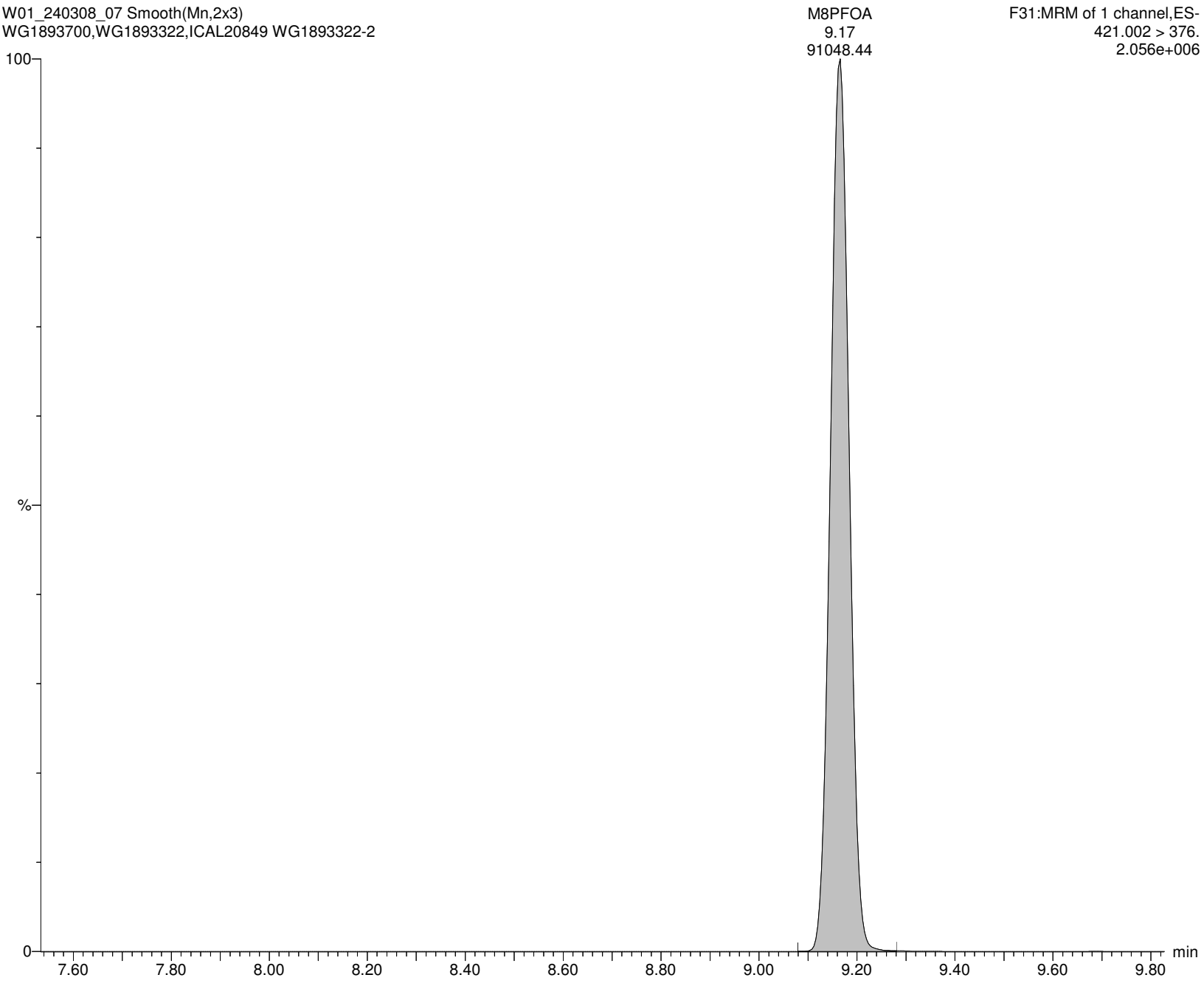

all concentration units in (ng/mL)

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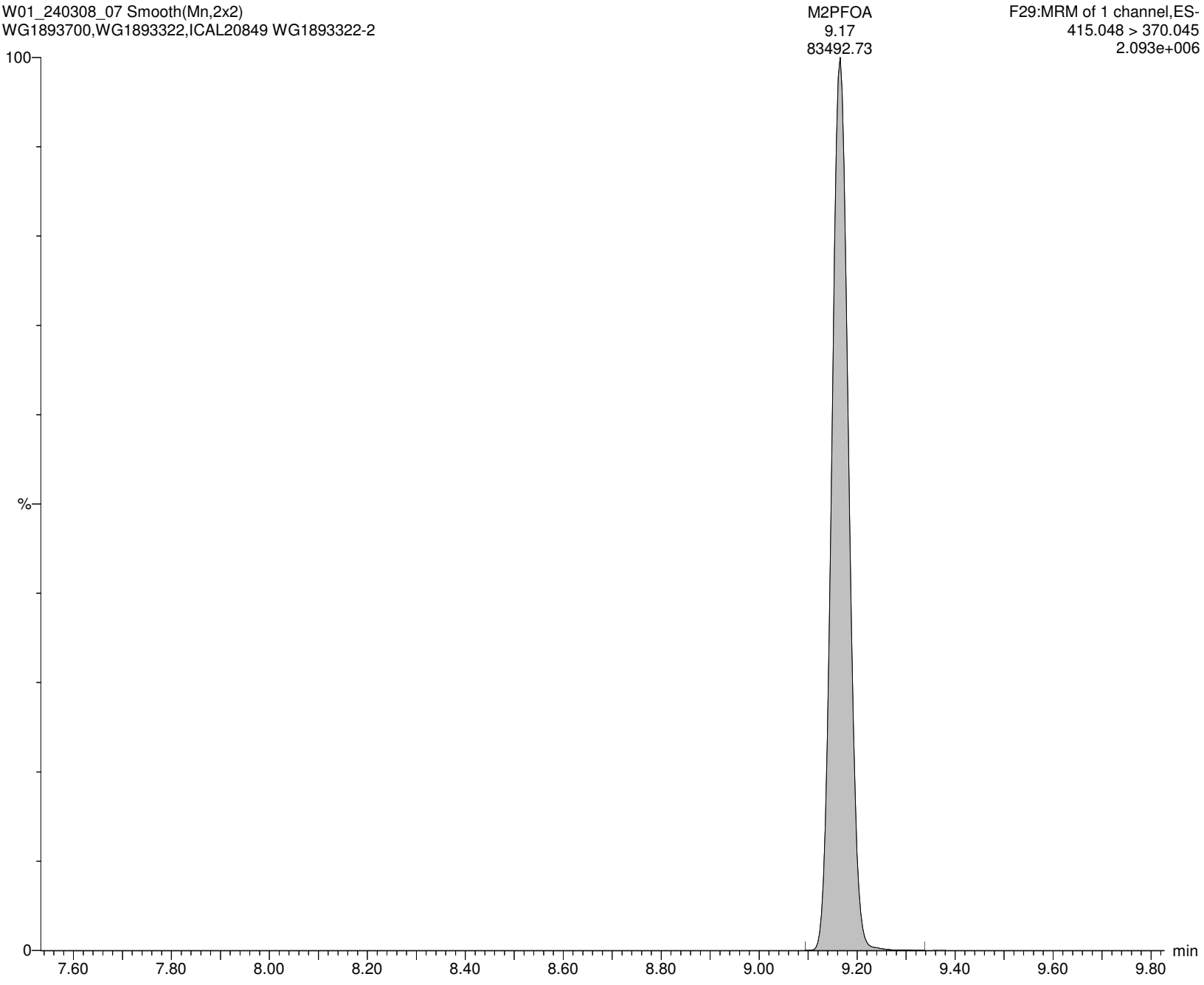

all concentration units in (ng/mL)

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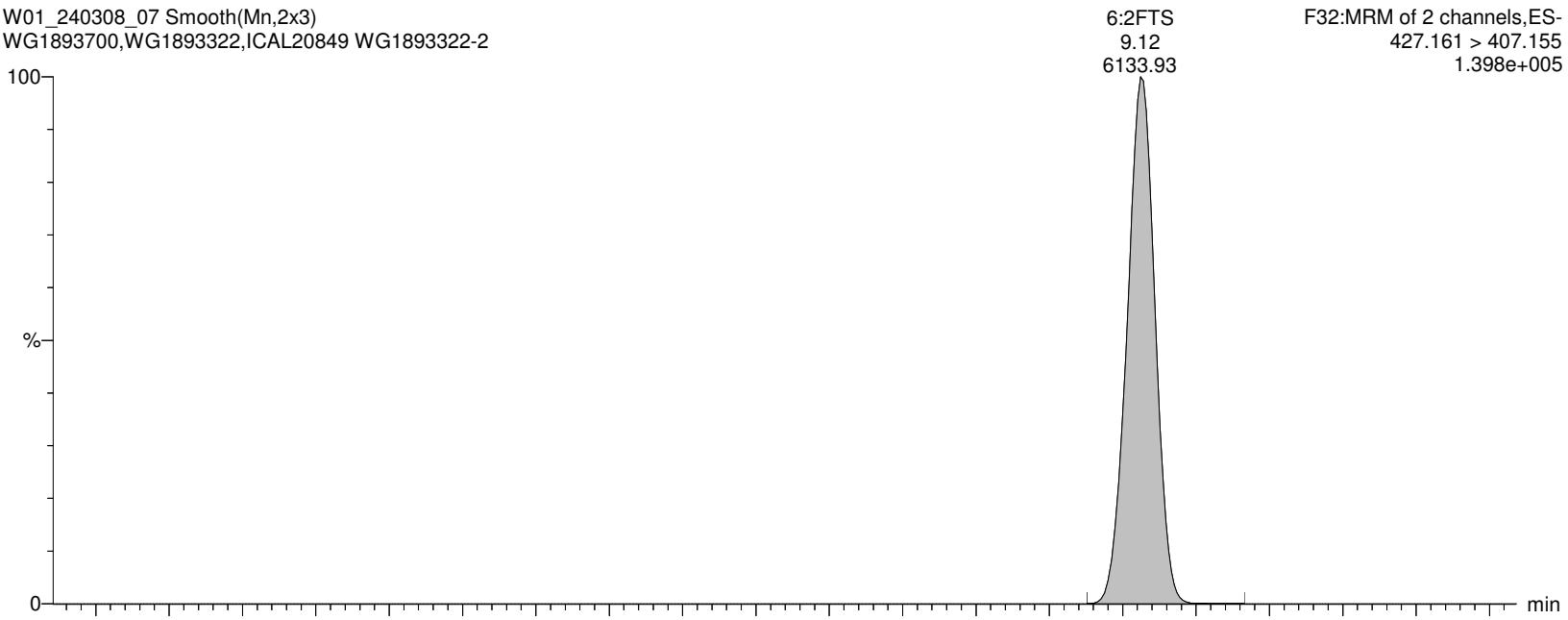

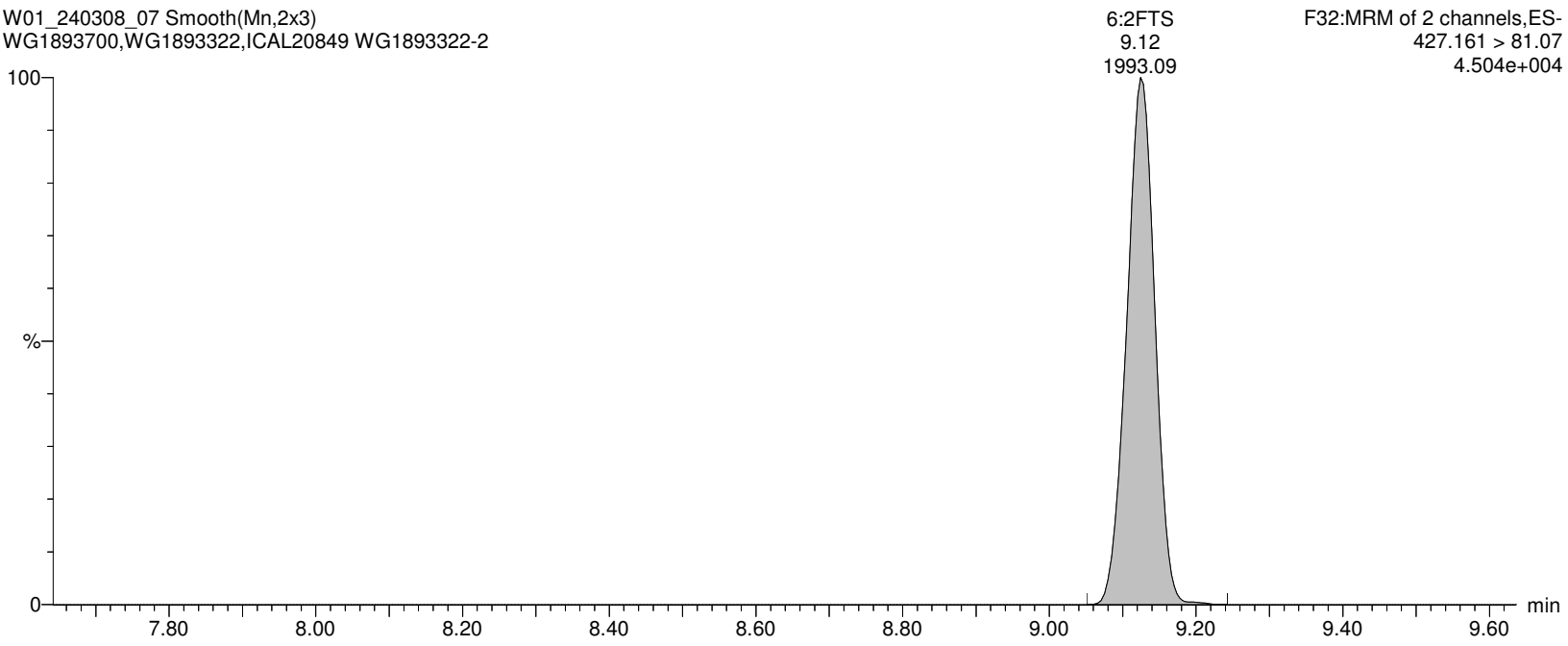

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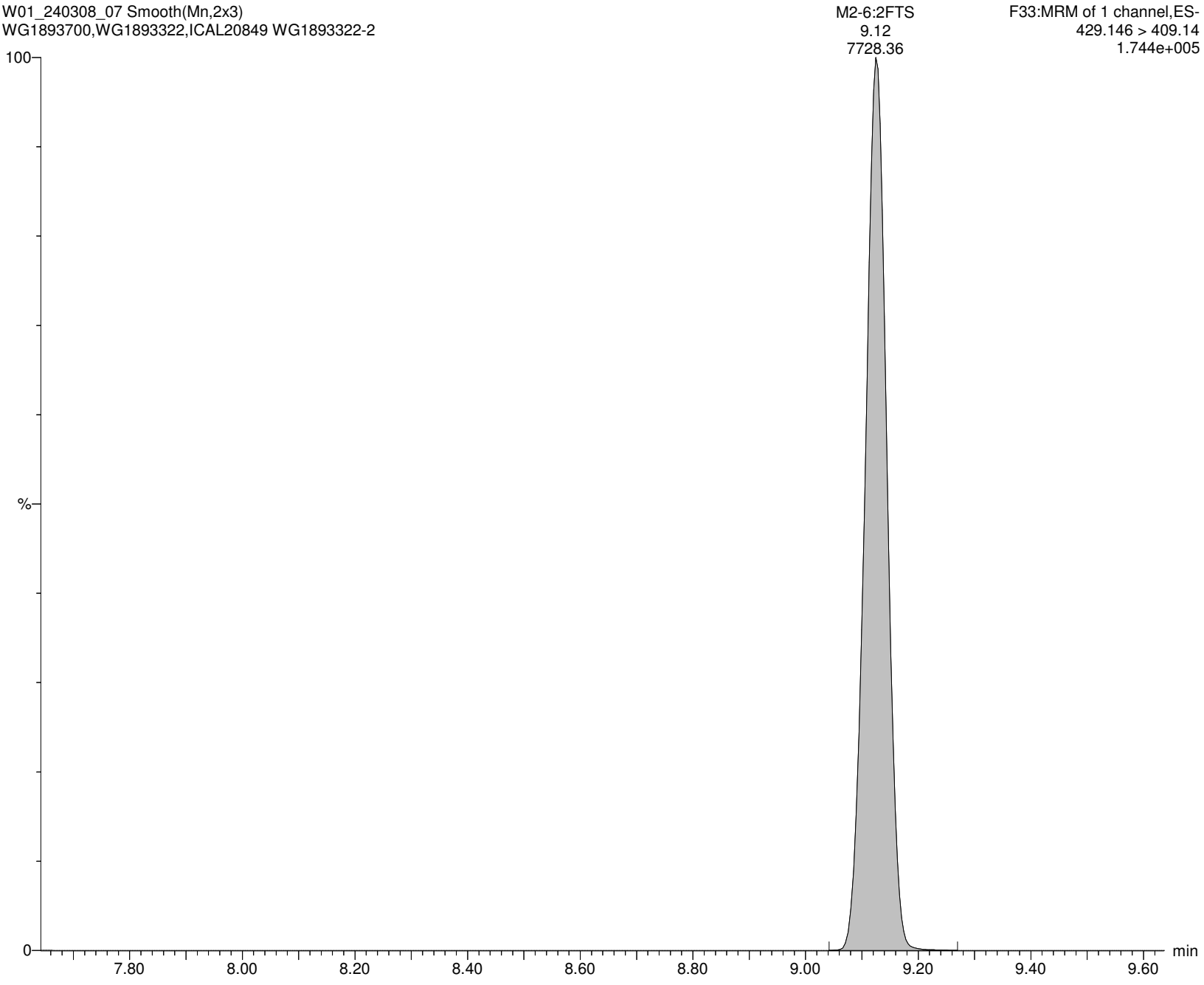

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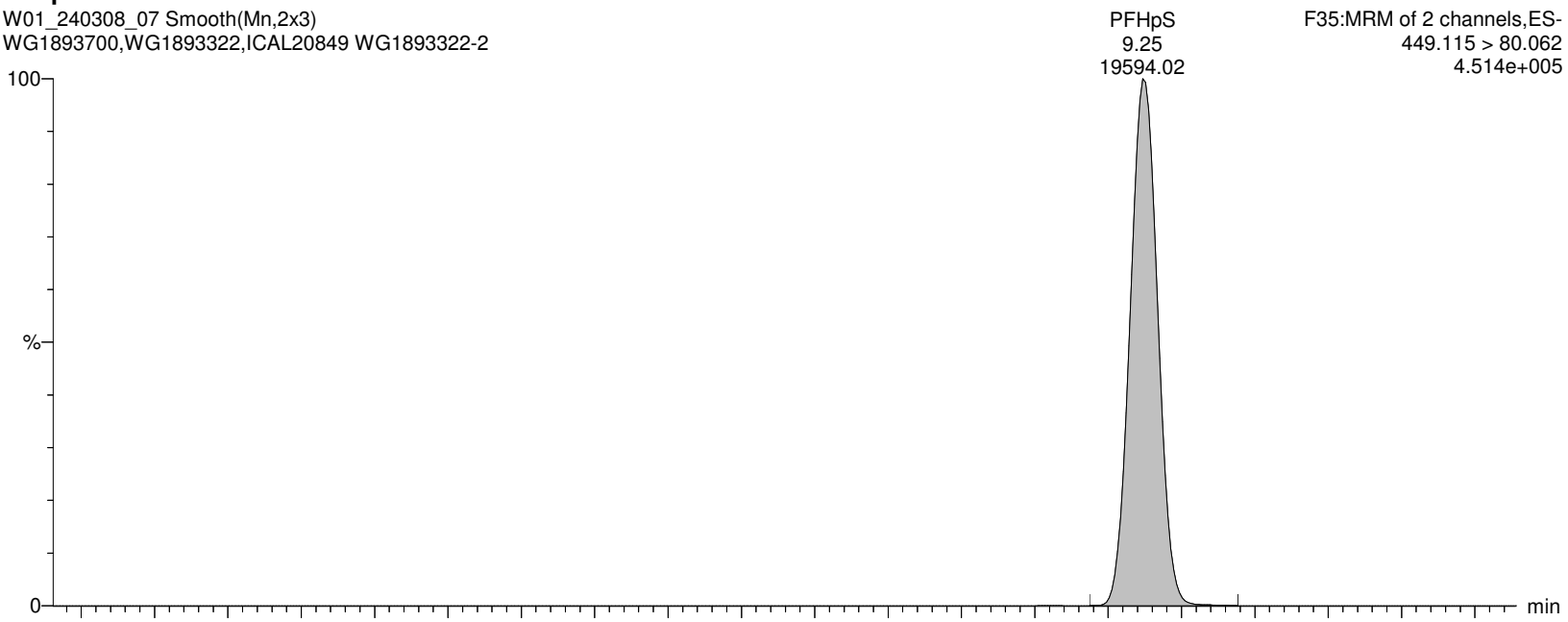

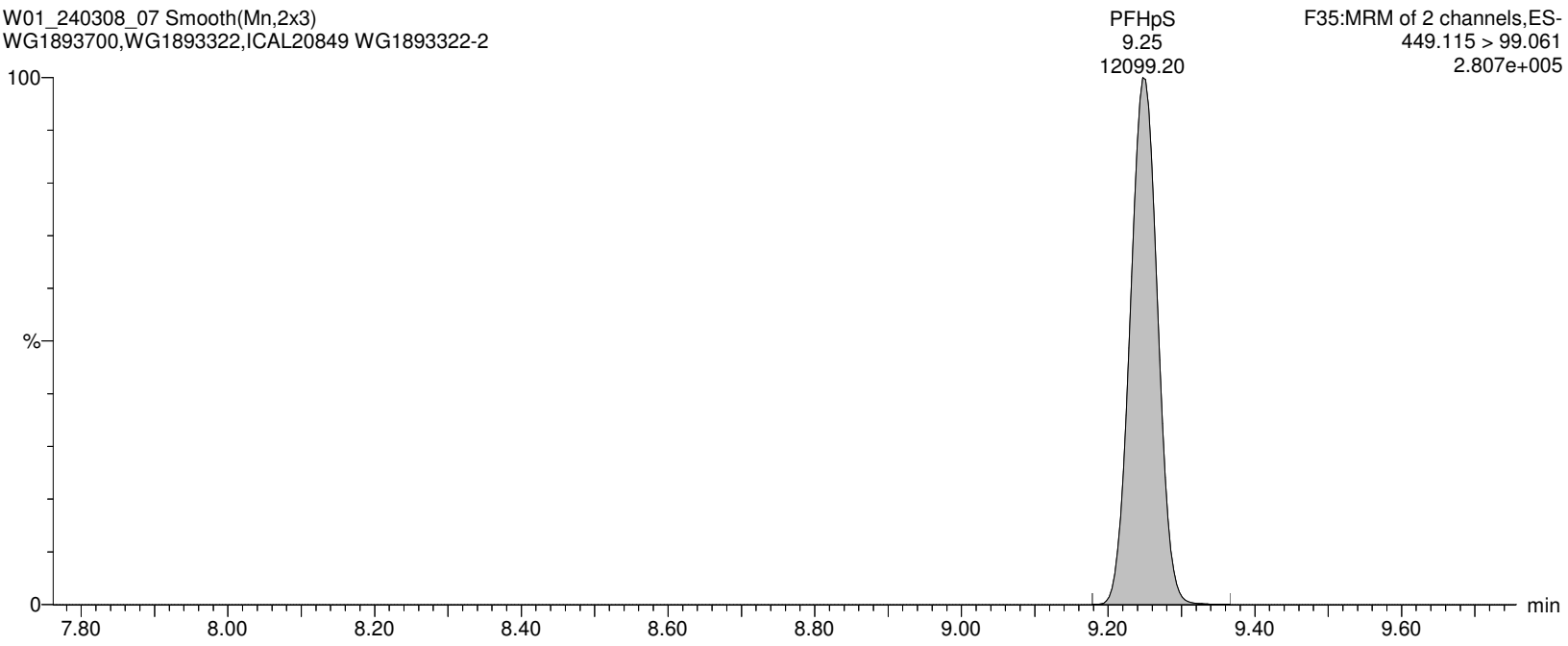

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:35 Eastern Standard Time

Name: W01_240308_07
ID: WG1893322-2
Date: 08-Mar-2024
Time: 06:43:04
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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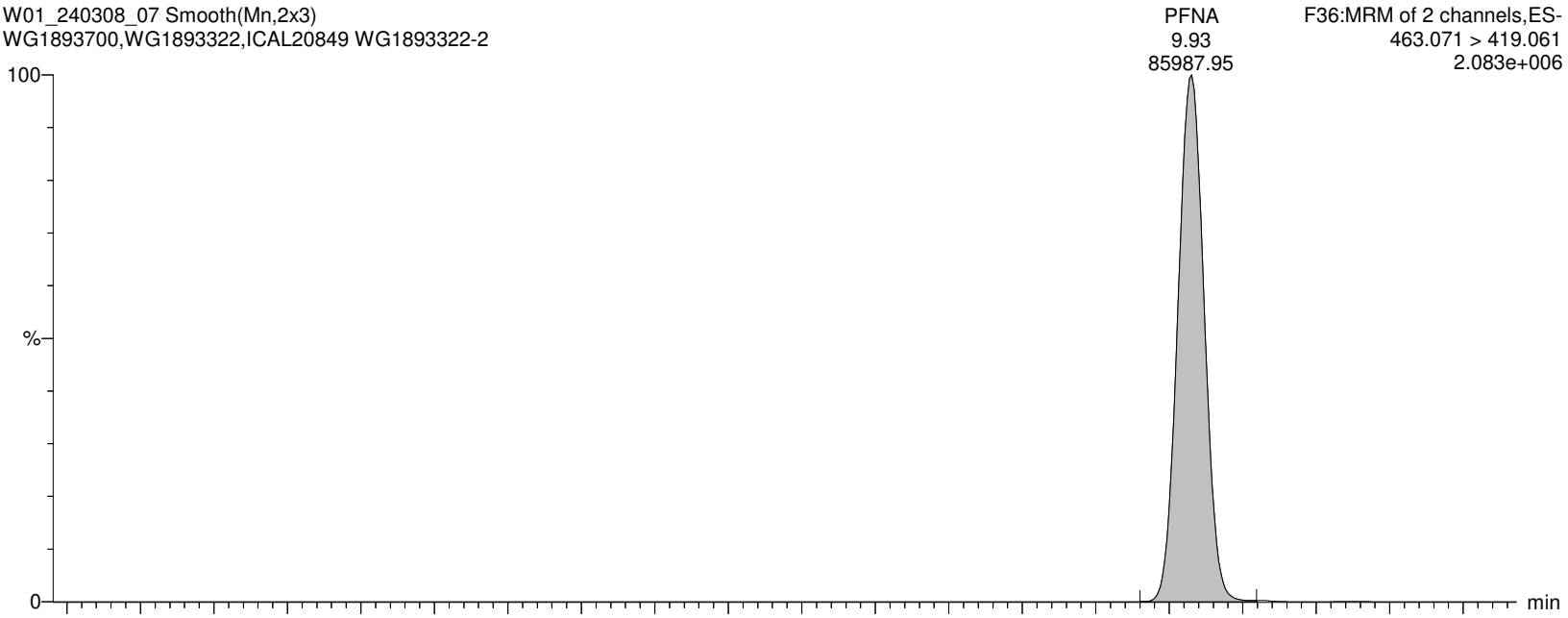

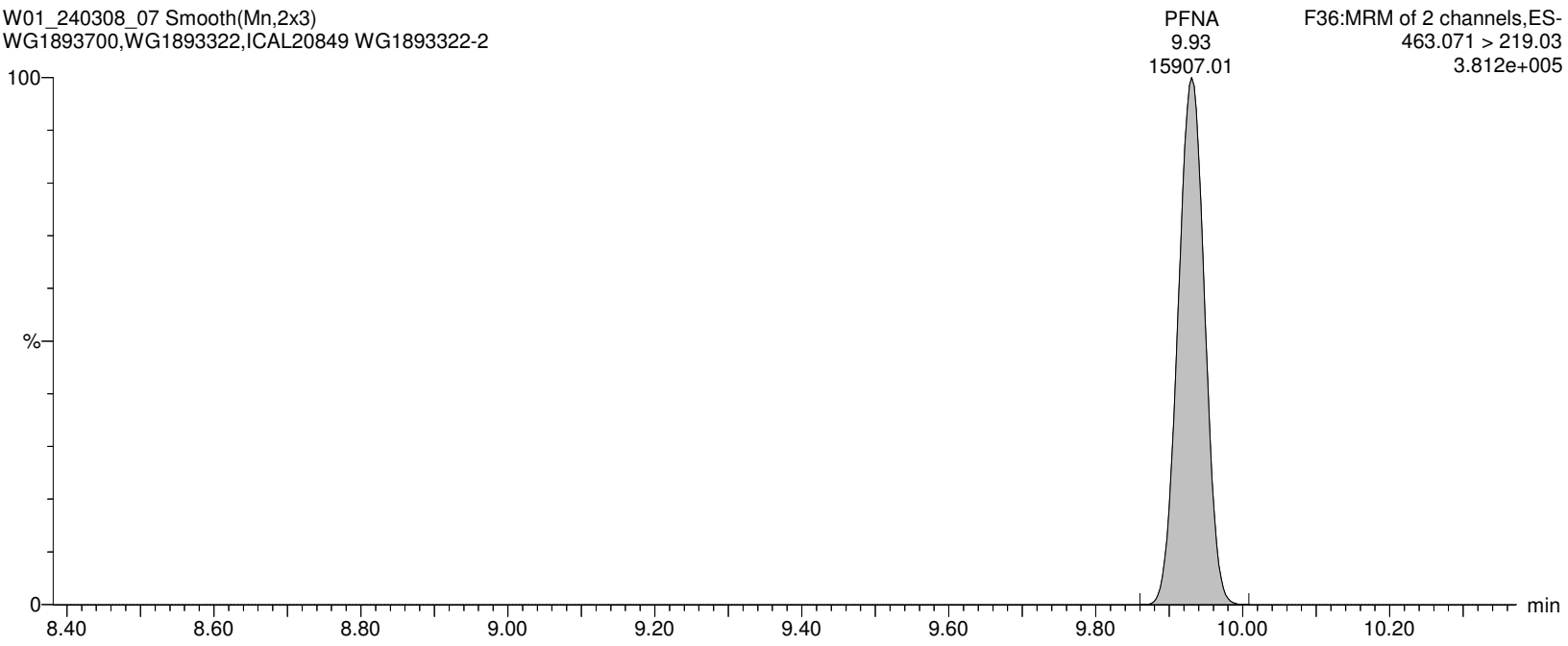

all concentration units in (ng/mL)

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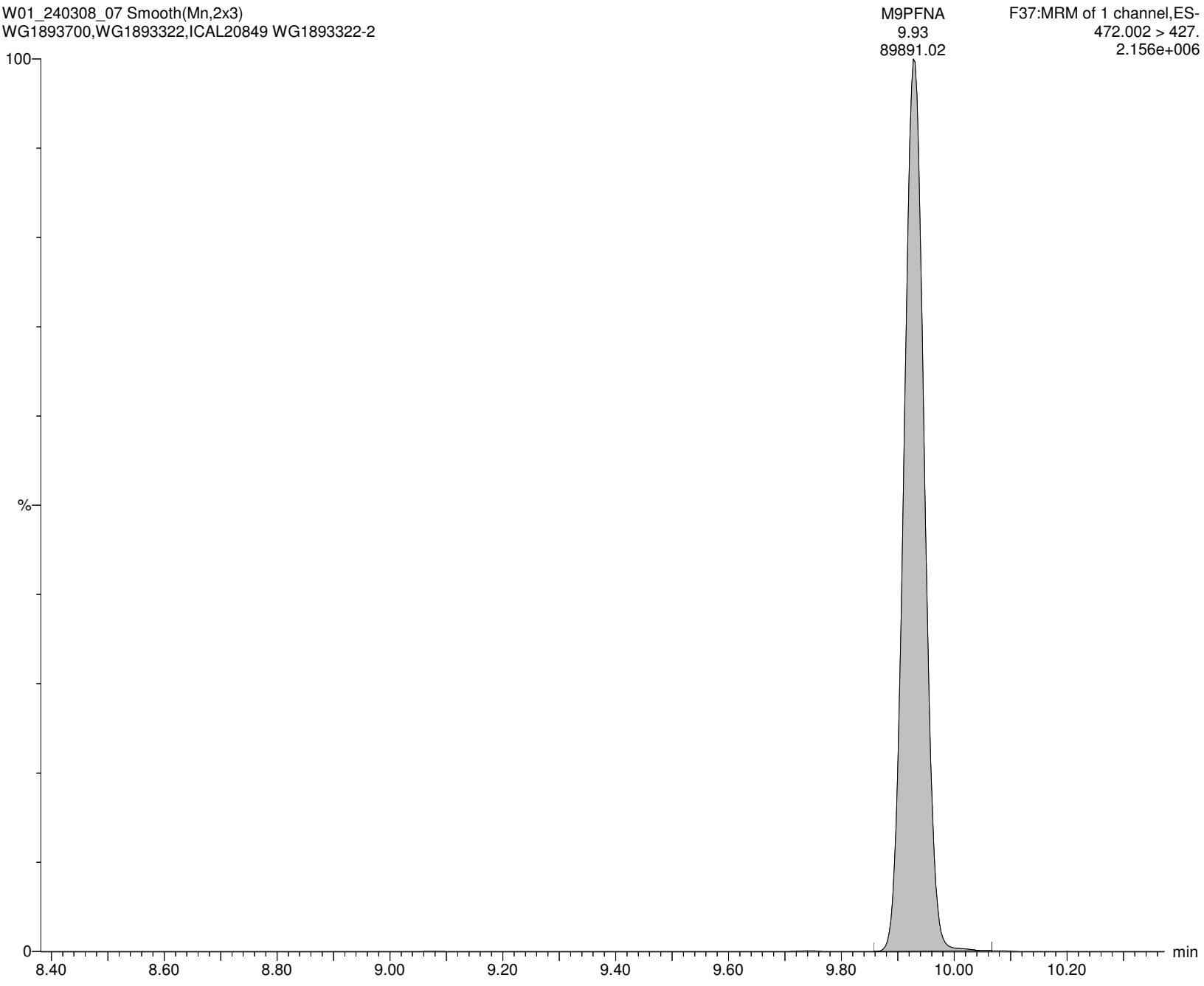

all concentration units in (ng/mL)

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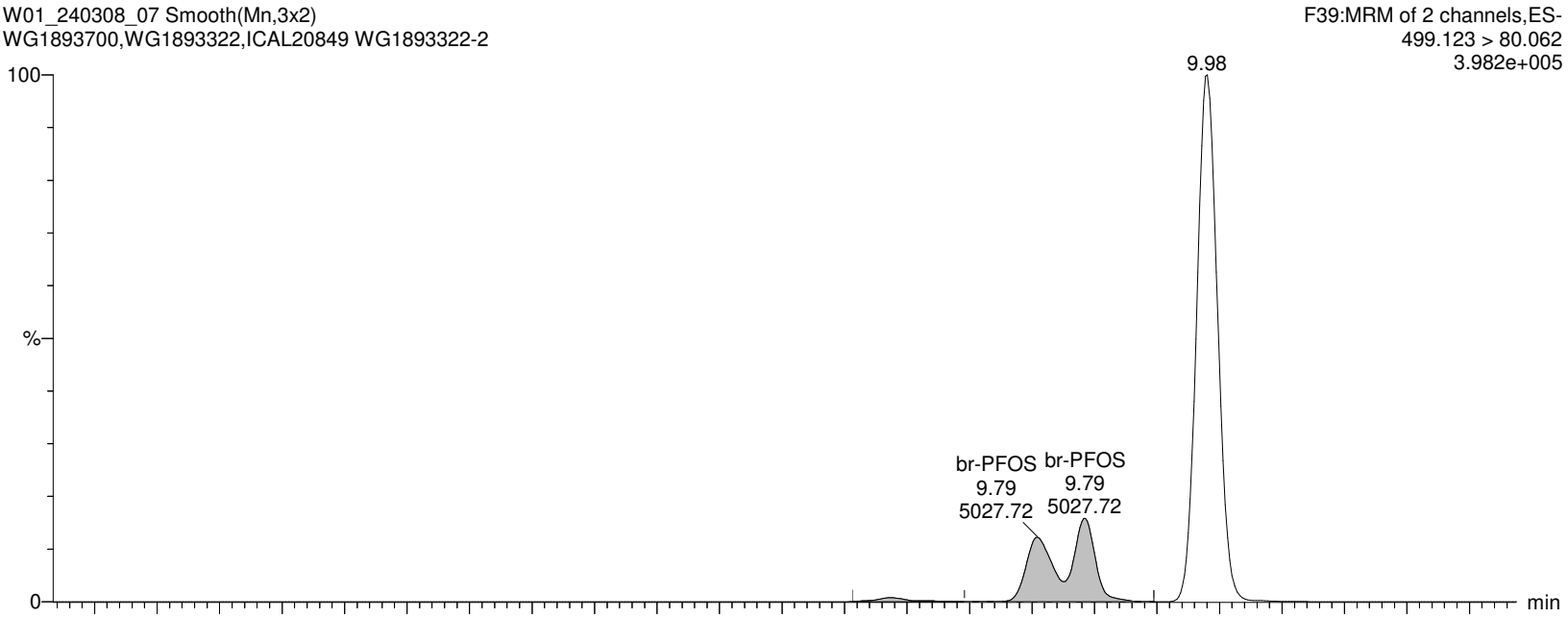

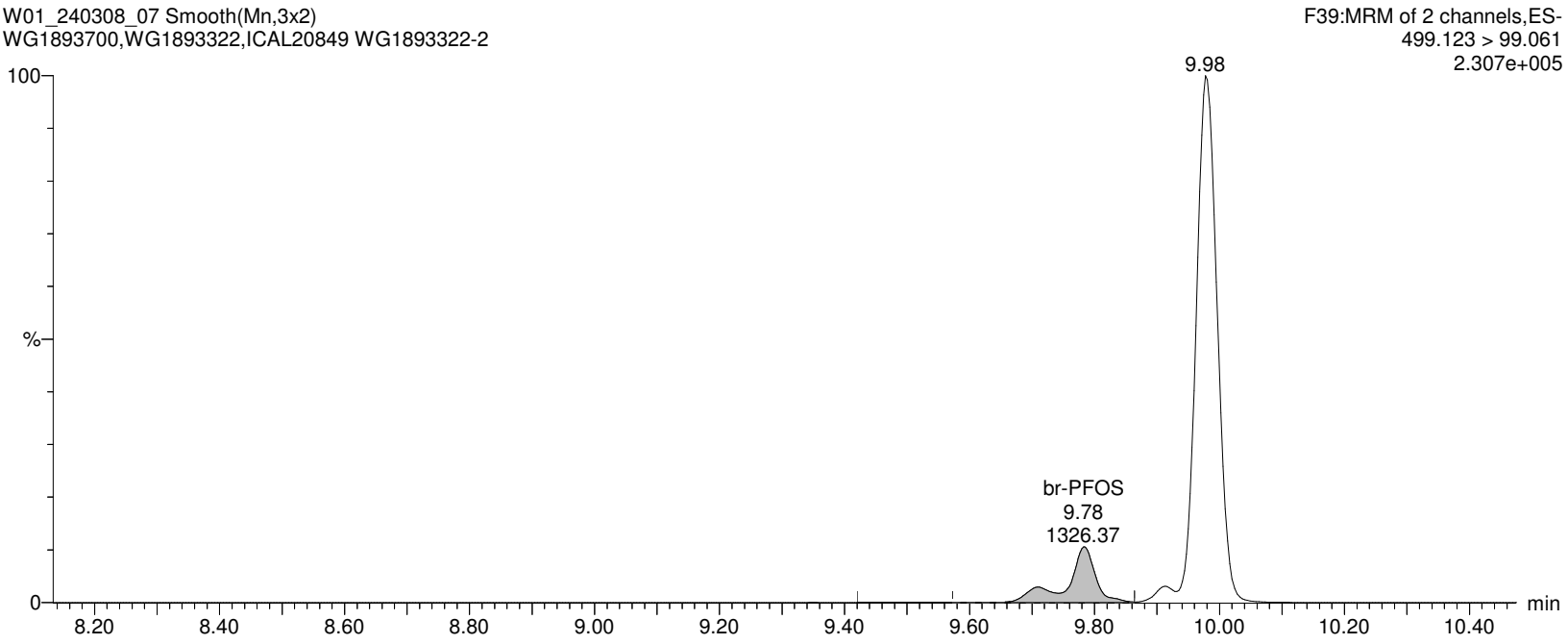

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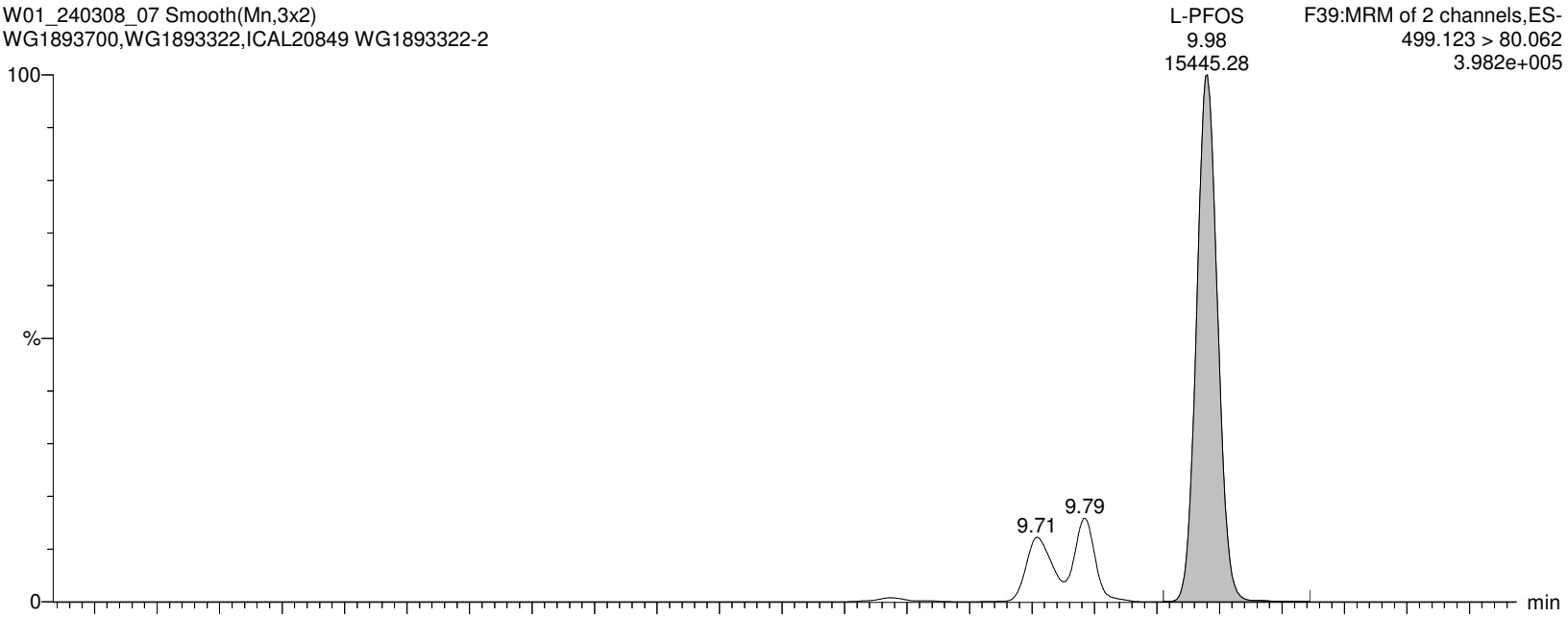

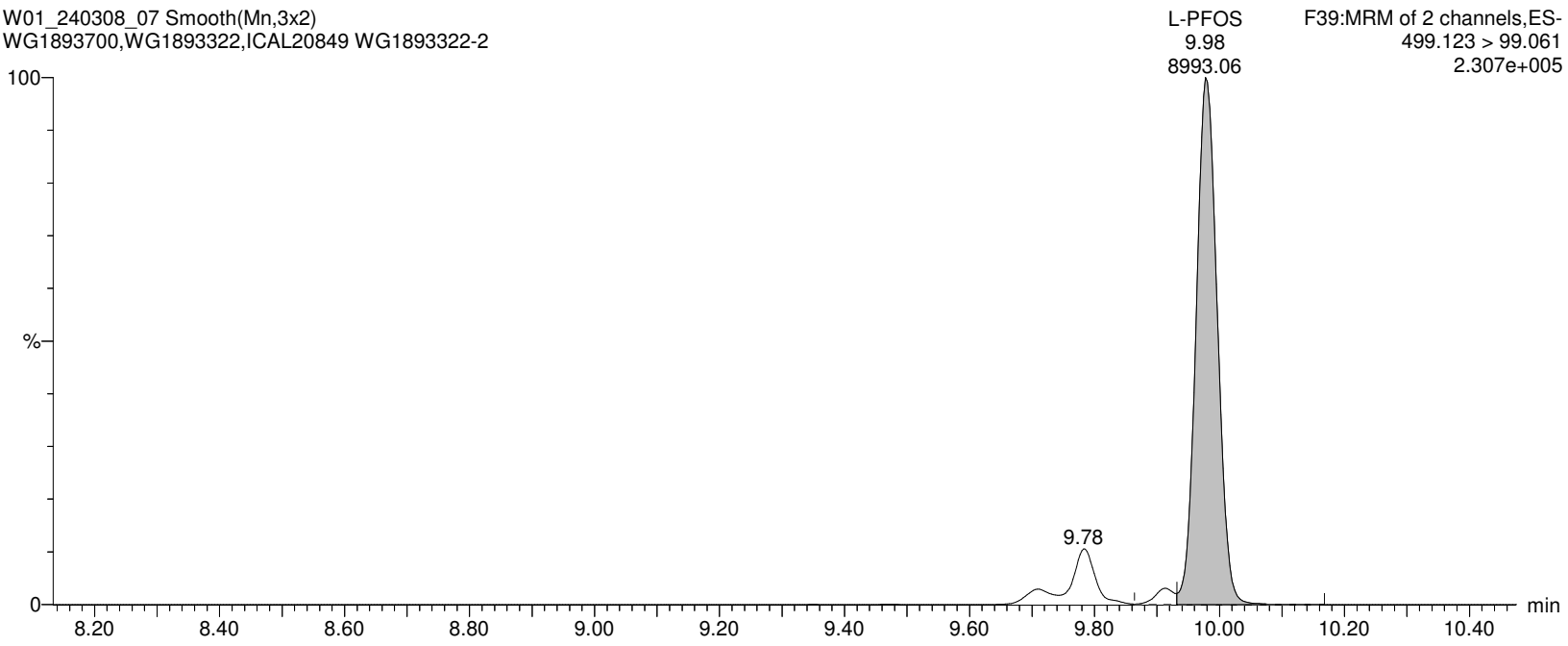

all concentration units in (ng/mL)

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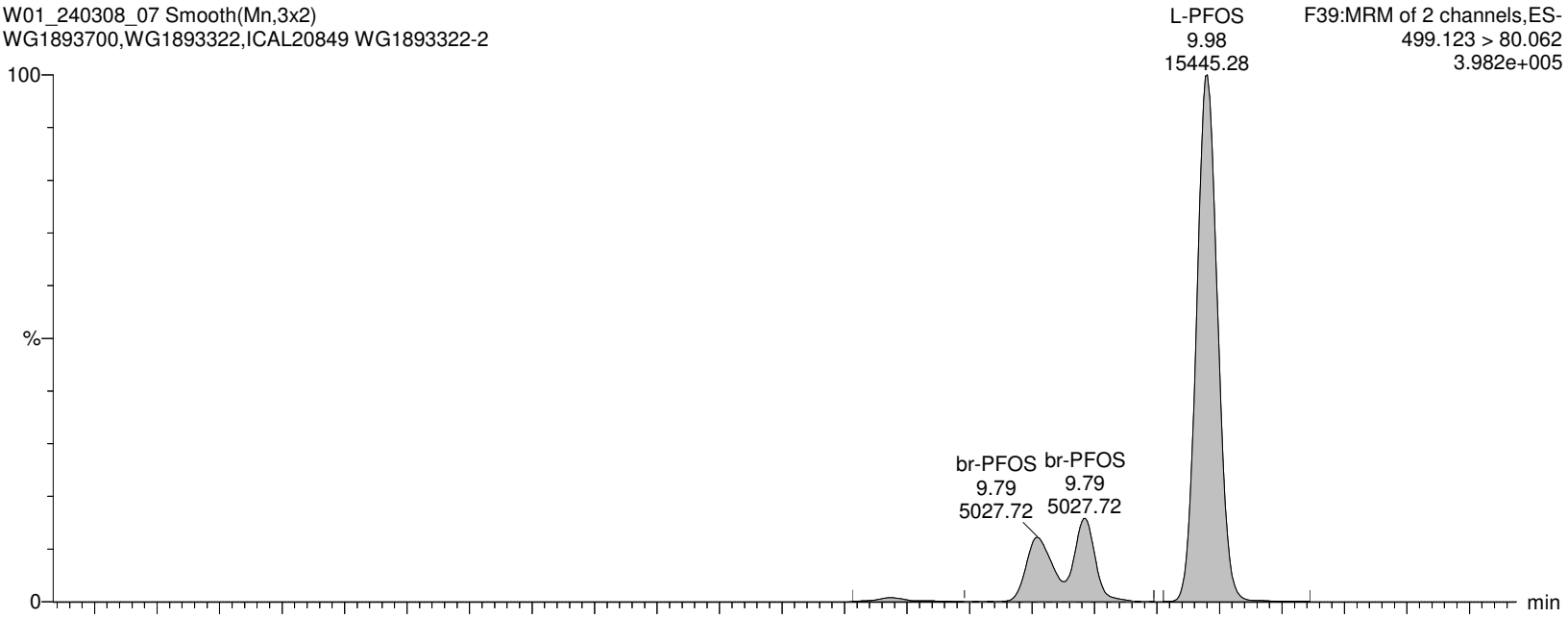

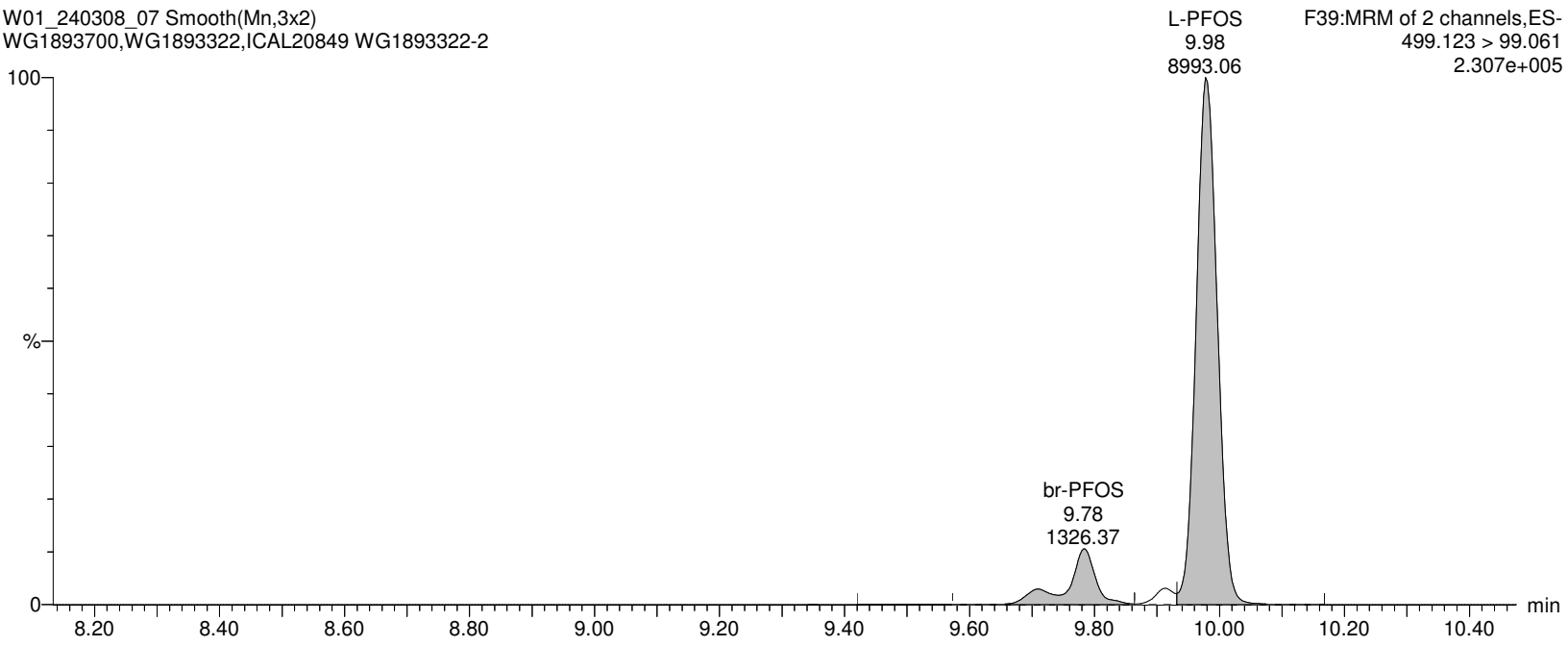

all concentration units in (ng/mL)

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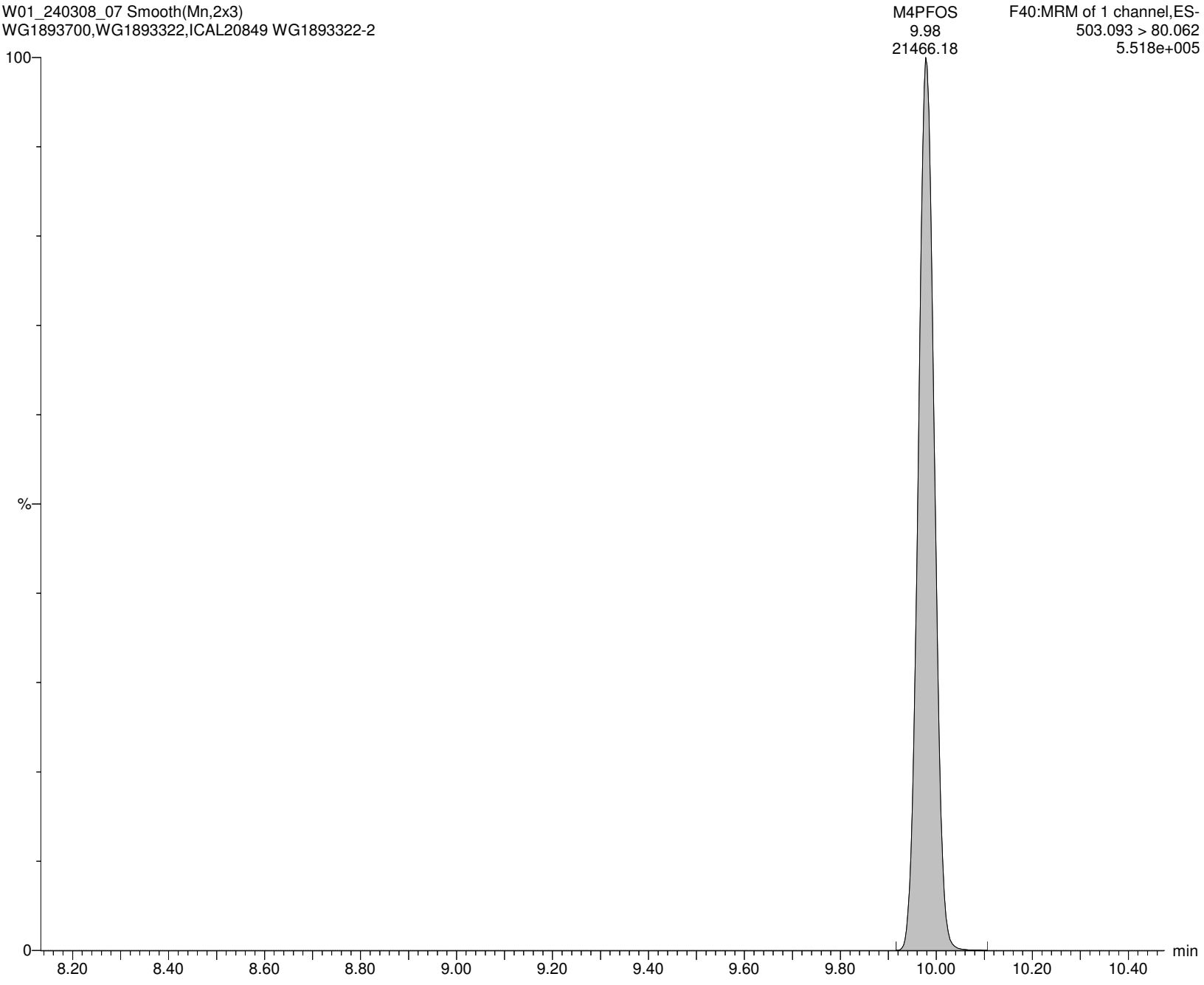

all concentration units in (ng/mL)

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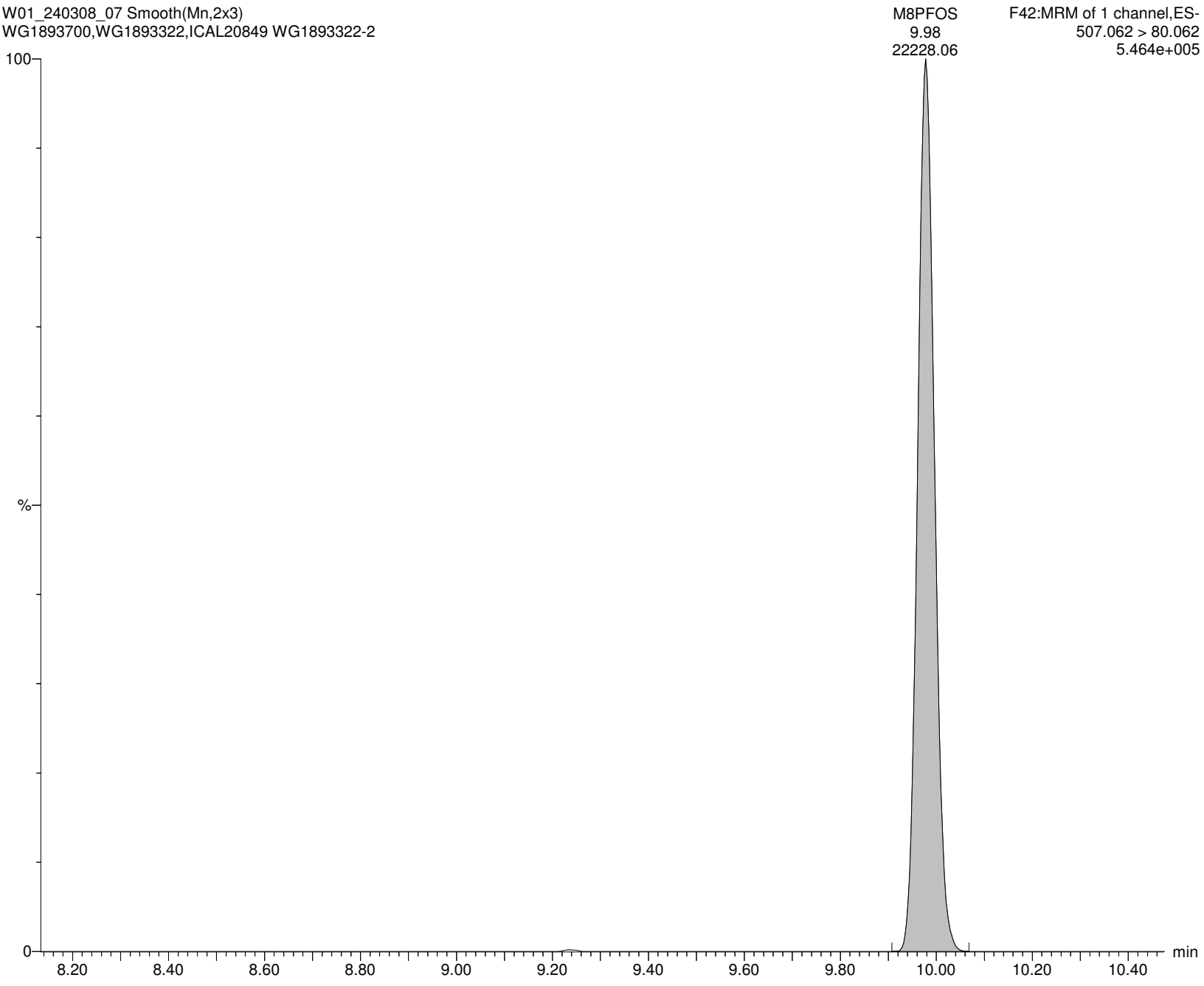

all concentration units in (ng/mL)

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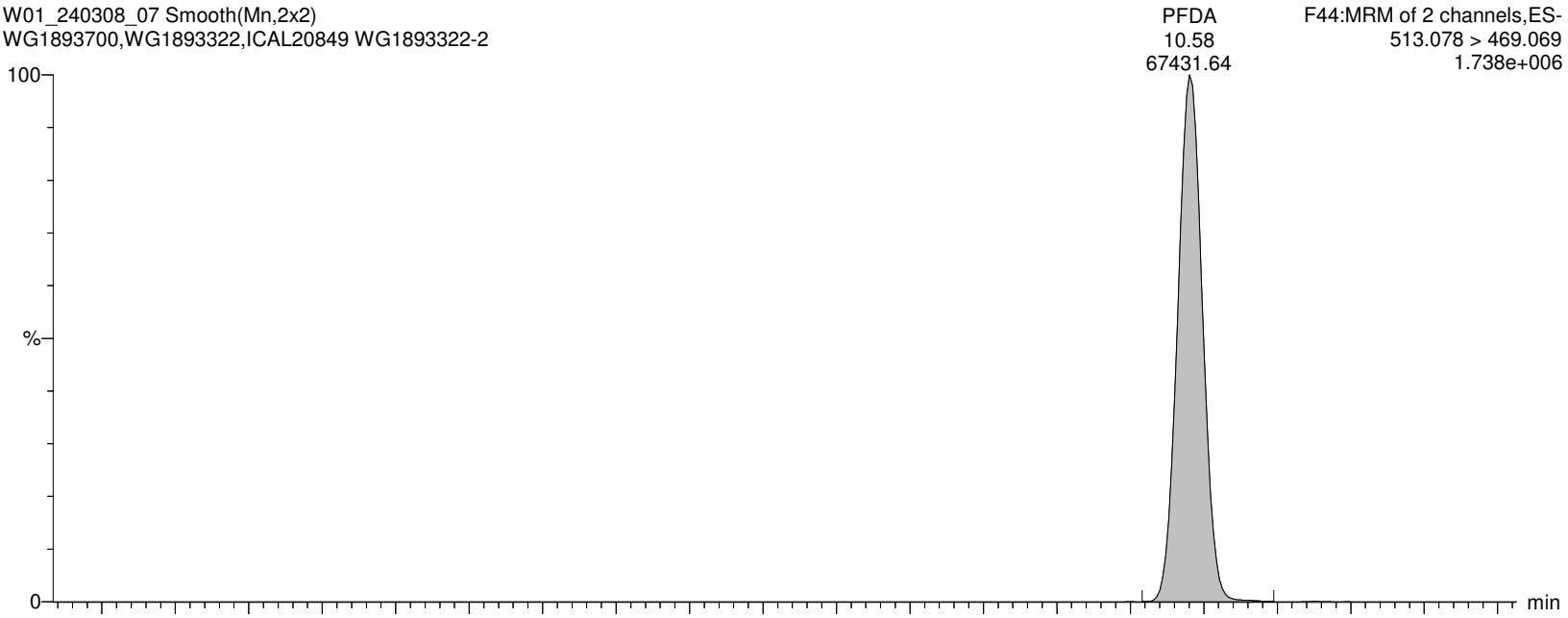

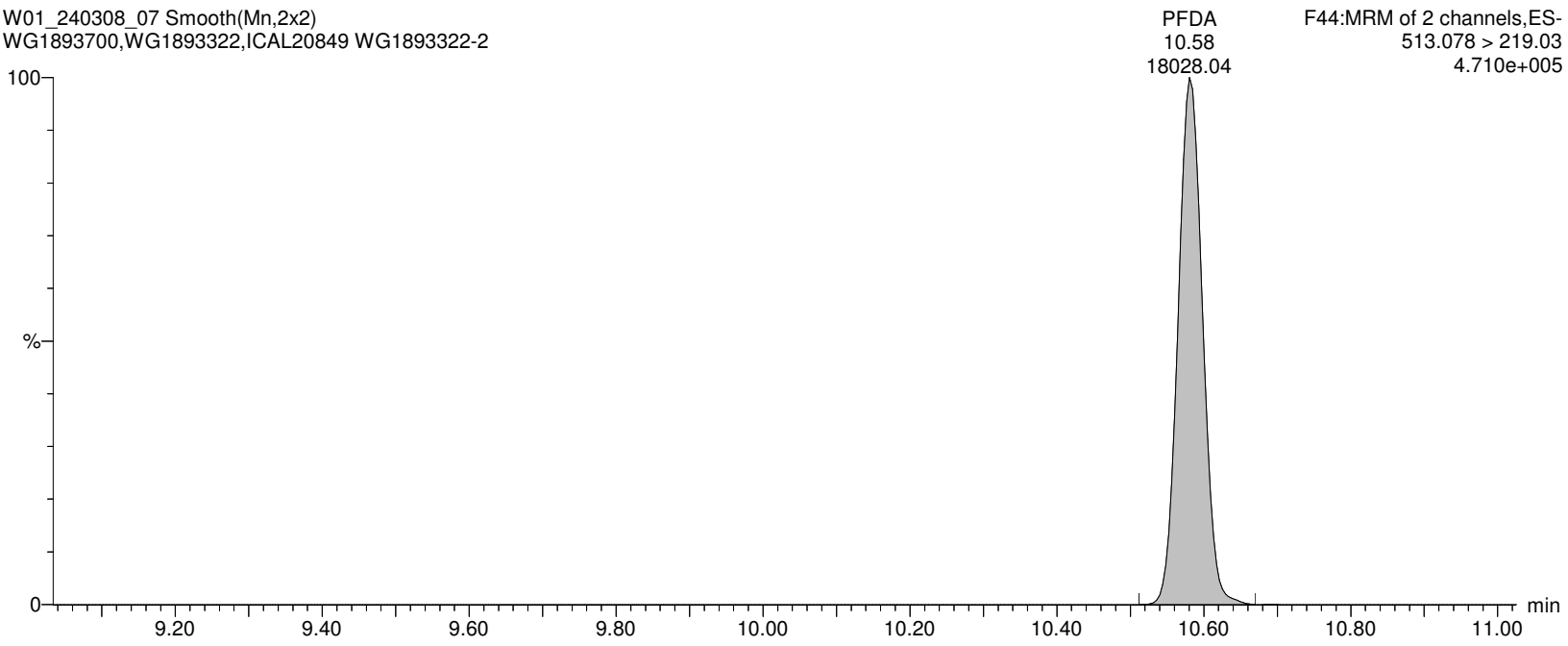

all concentration units in (ng/mL)

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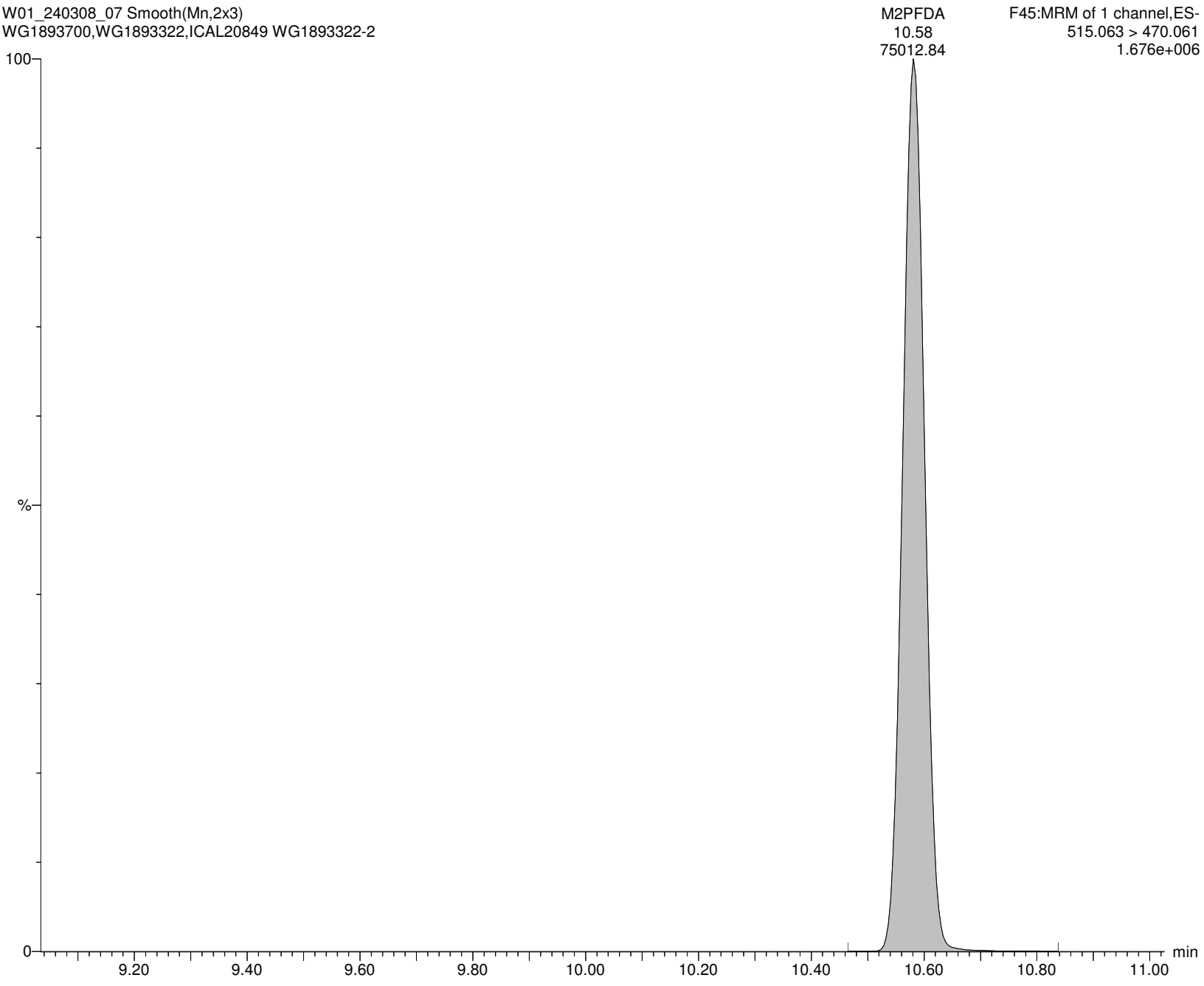

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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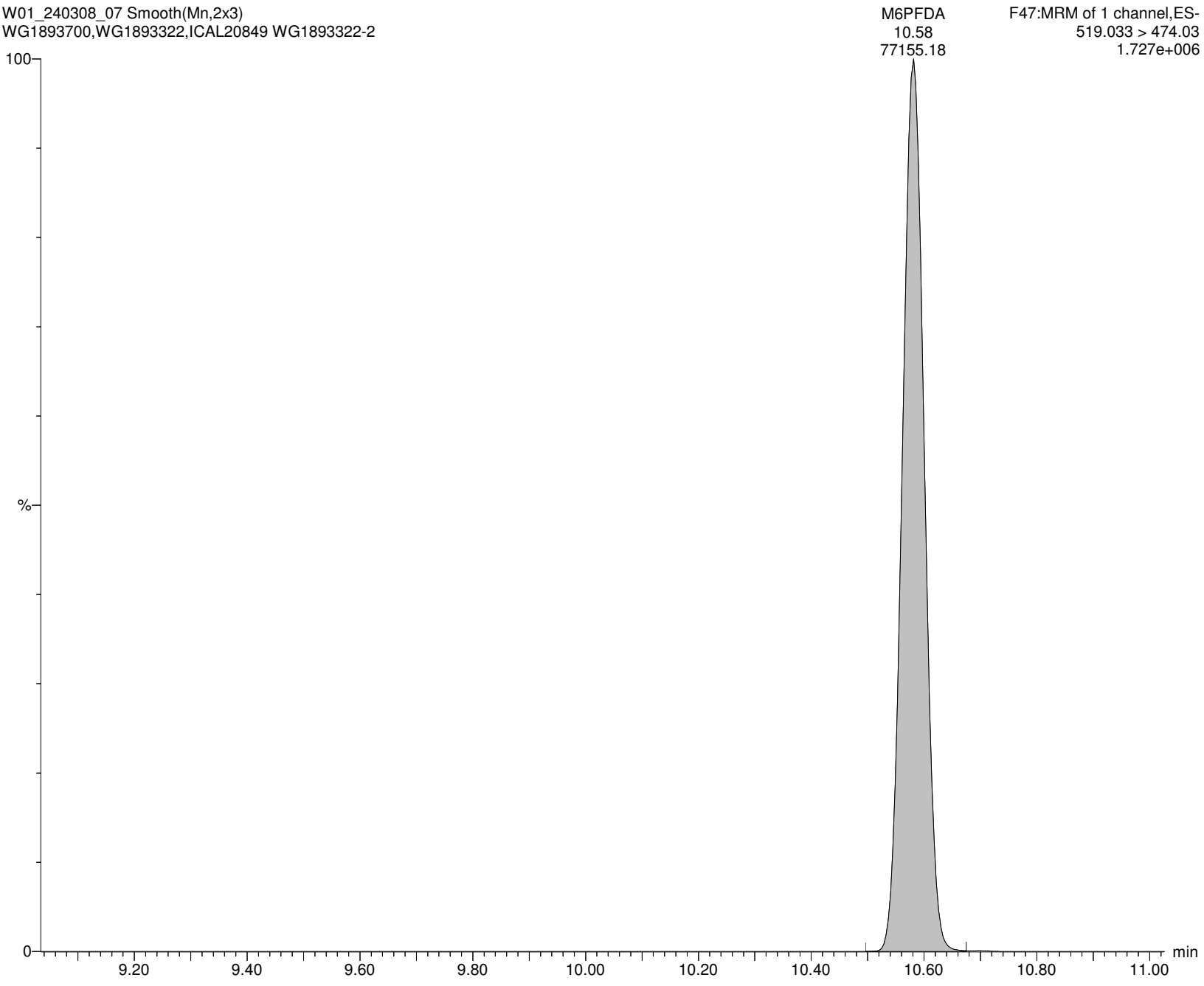

all concentration units in (ng/mL)

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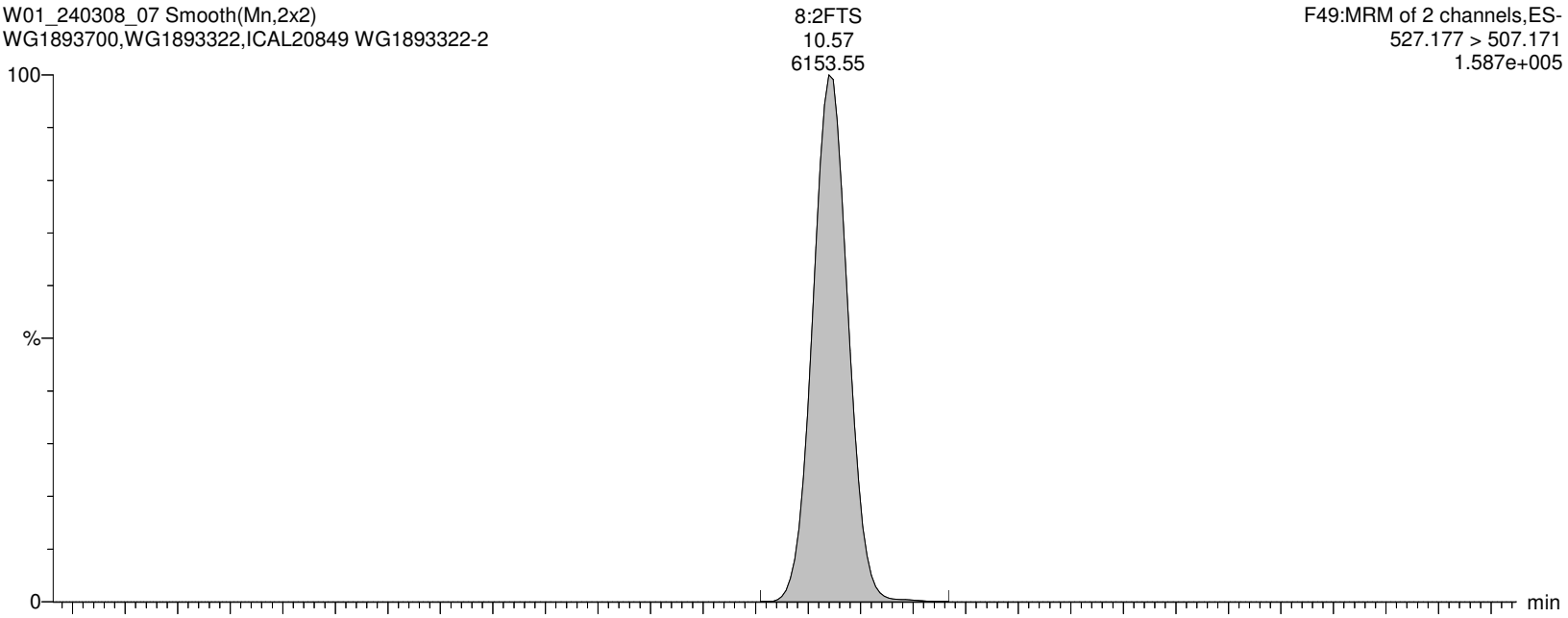

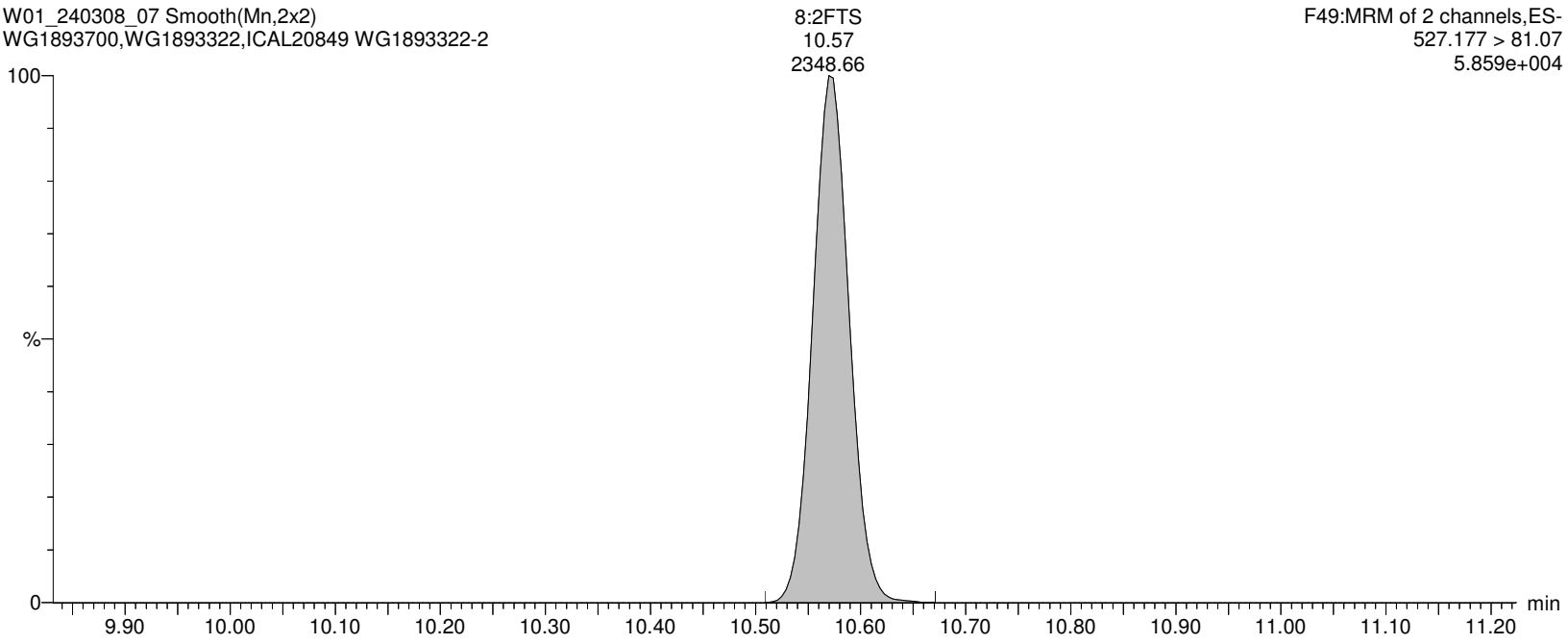

all concentration units in (ng/mL)

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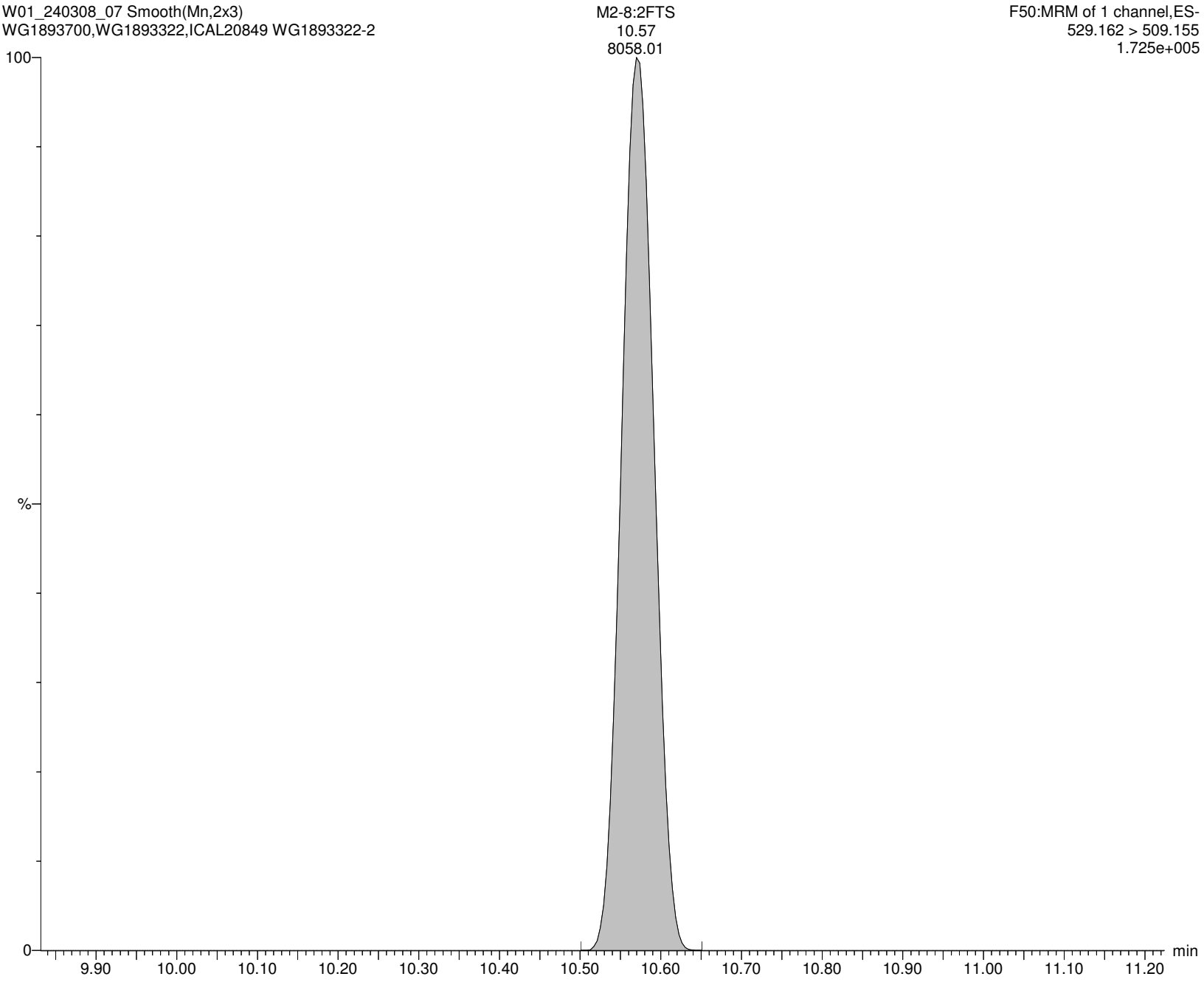

all concentration units in (ng/mL)

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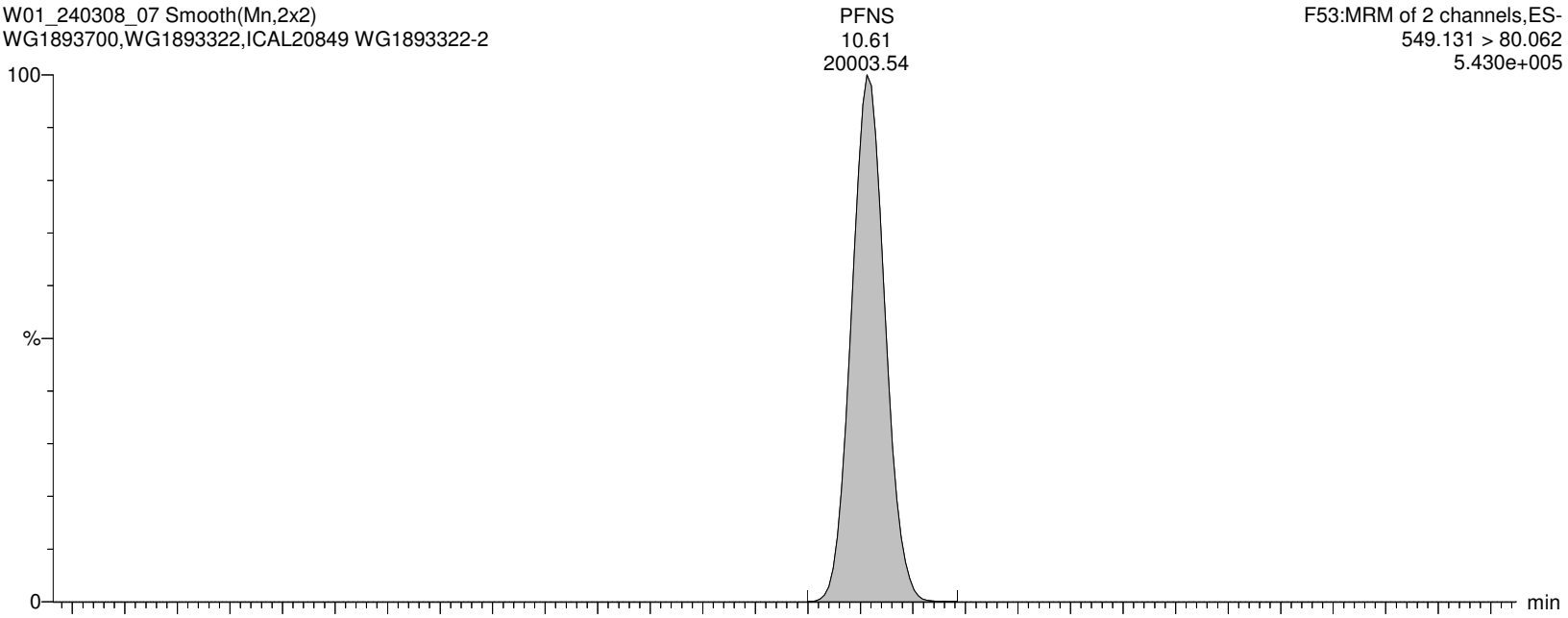
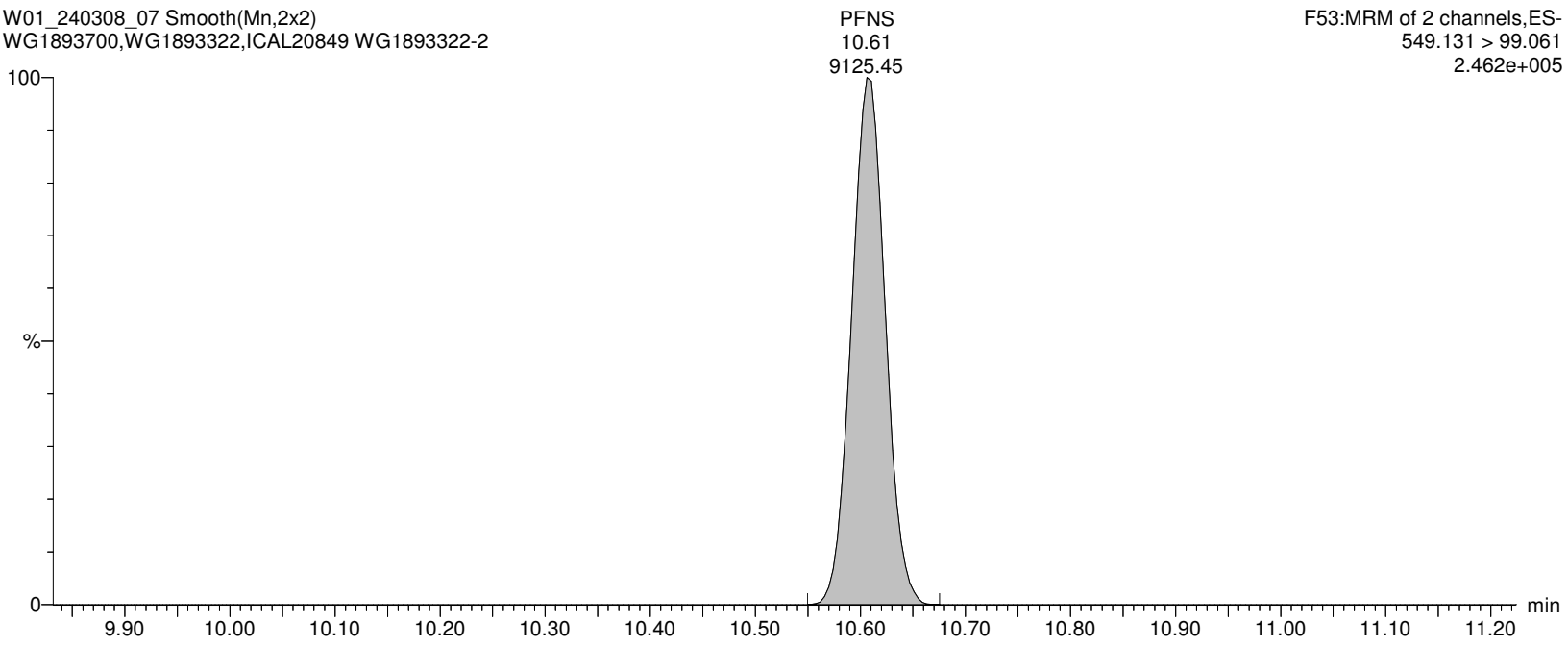
PFNS





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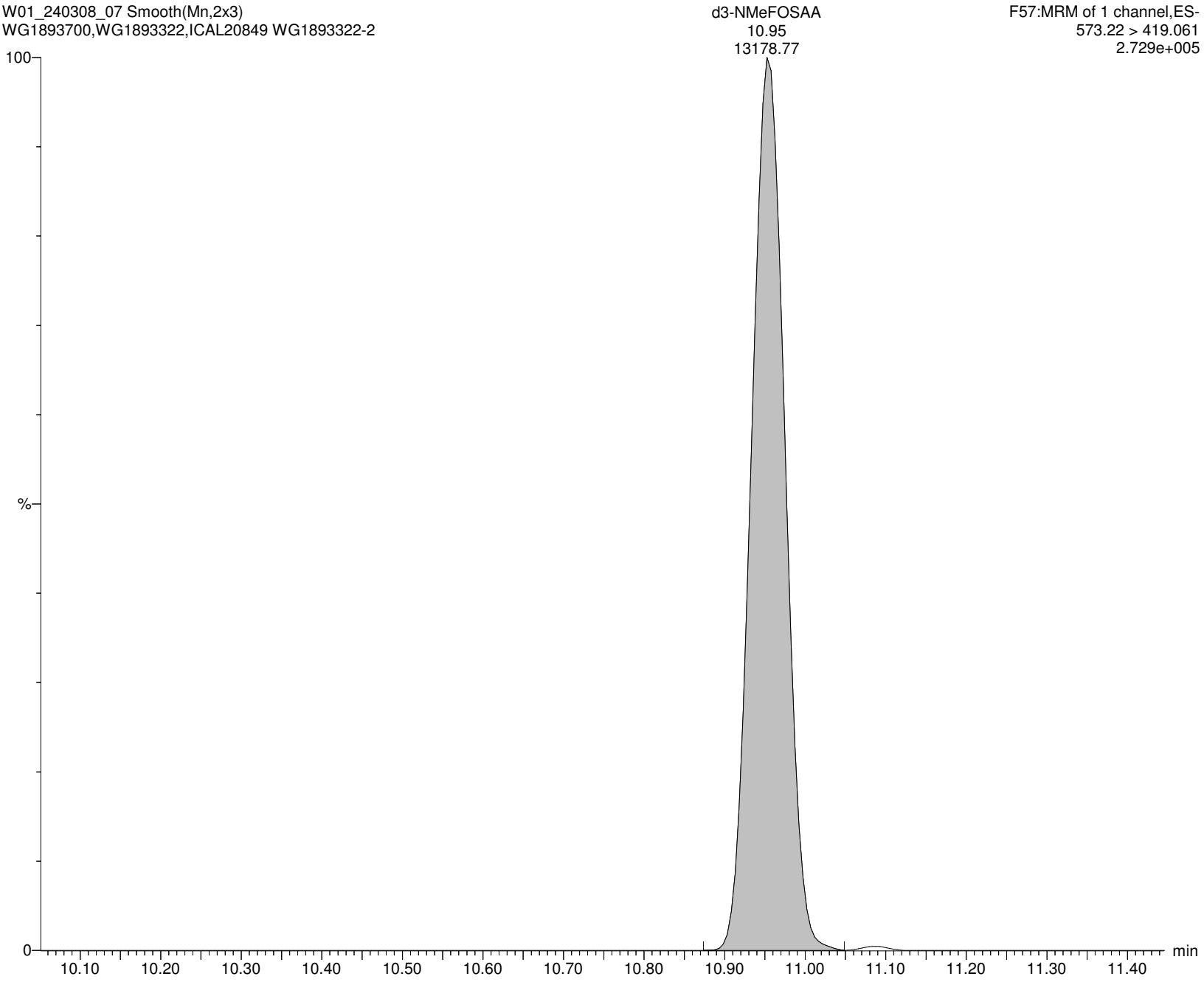

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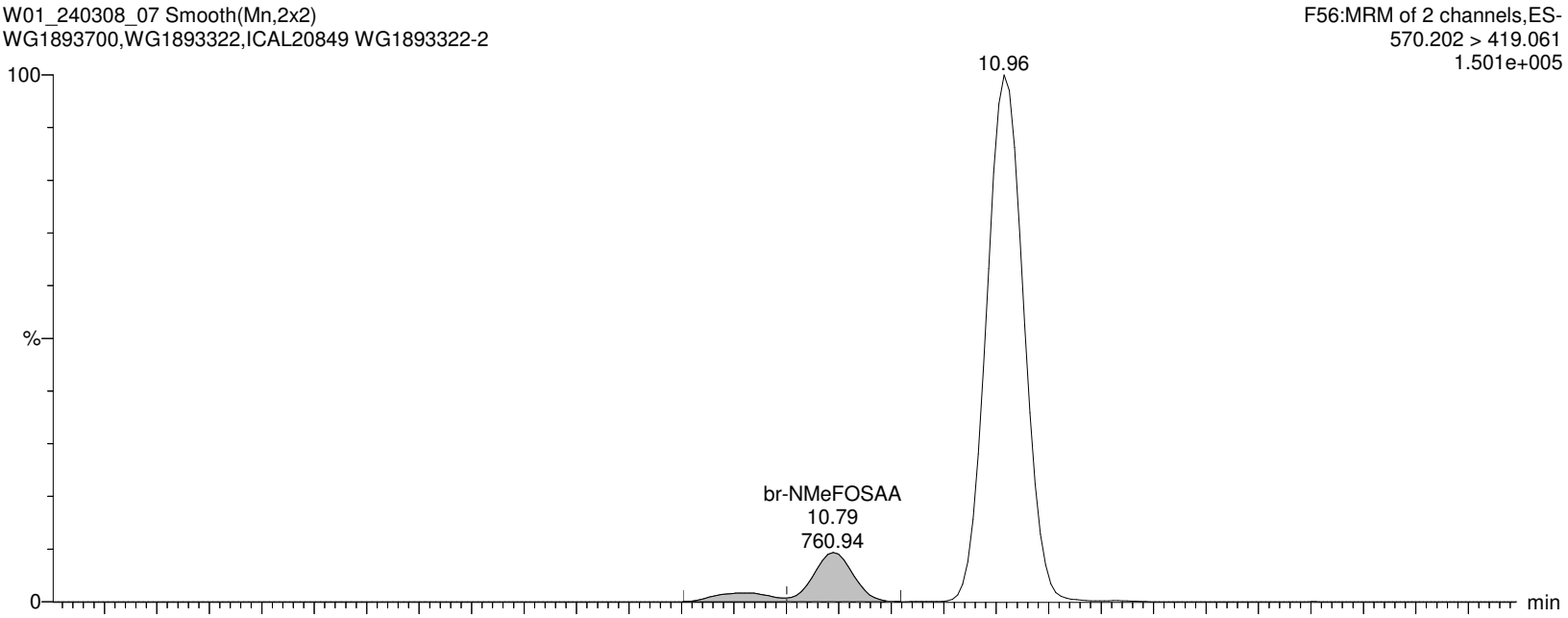

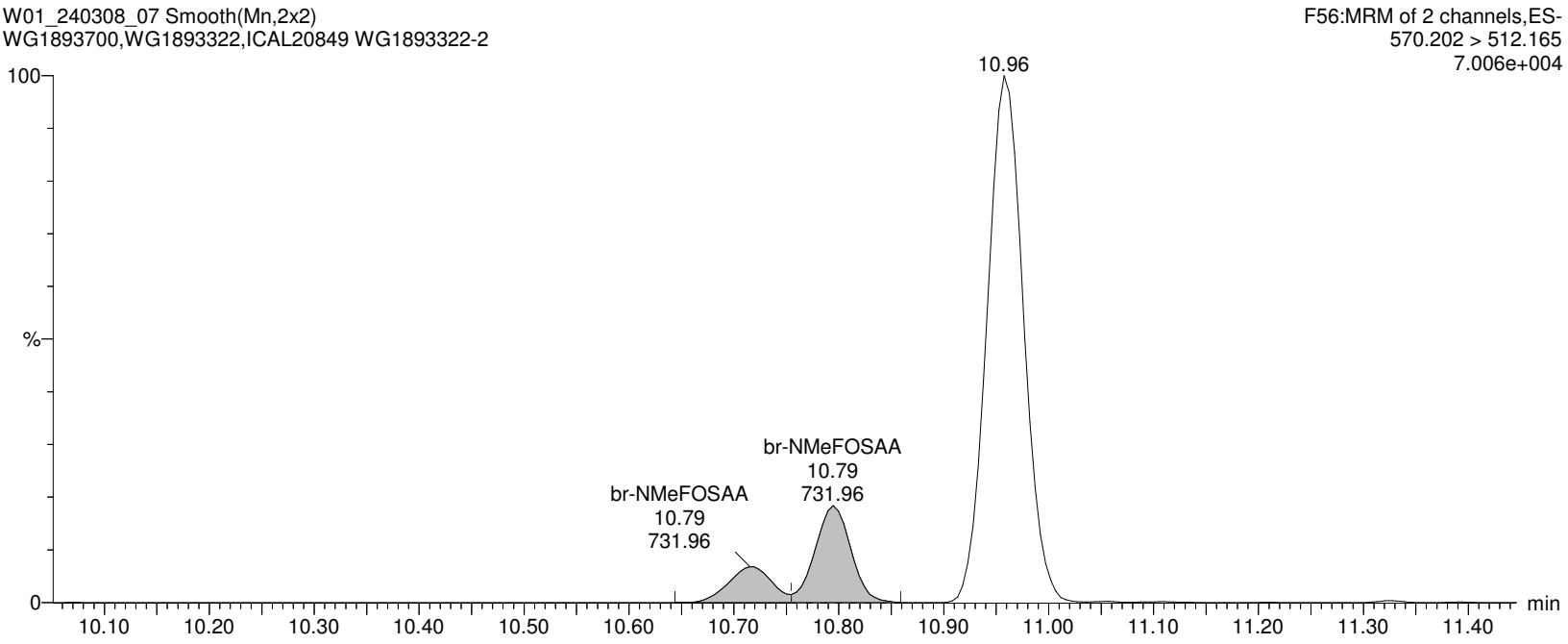

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 15:07:35 Eastern Standard Time

Name: W01_240308_07
ID: WG1893322-2
Date: 08-Mar-2024
Time: 06:43:04
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
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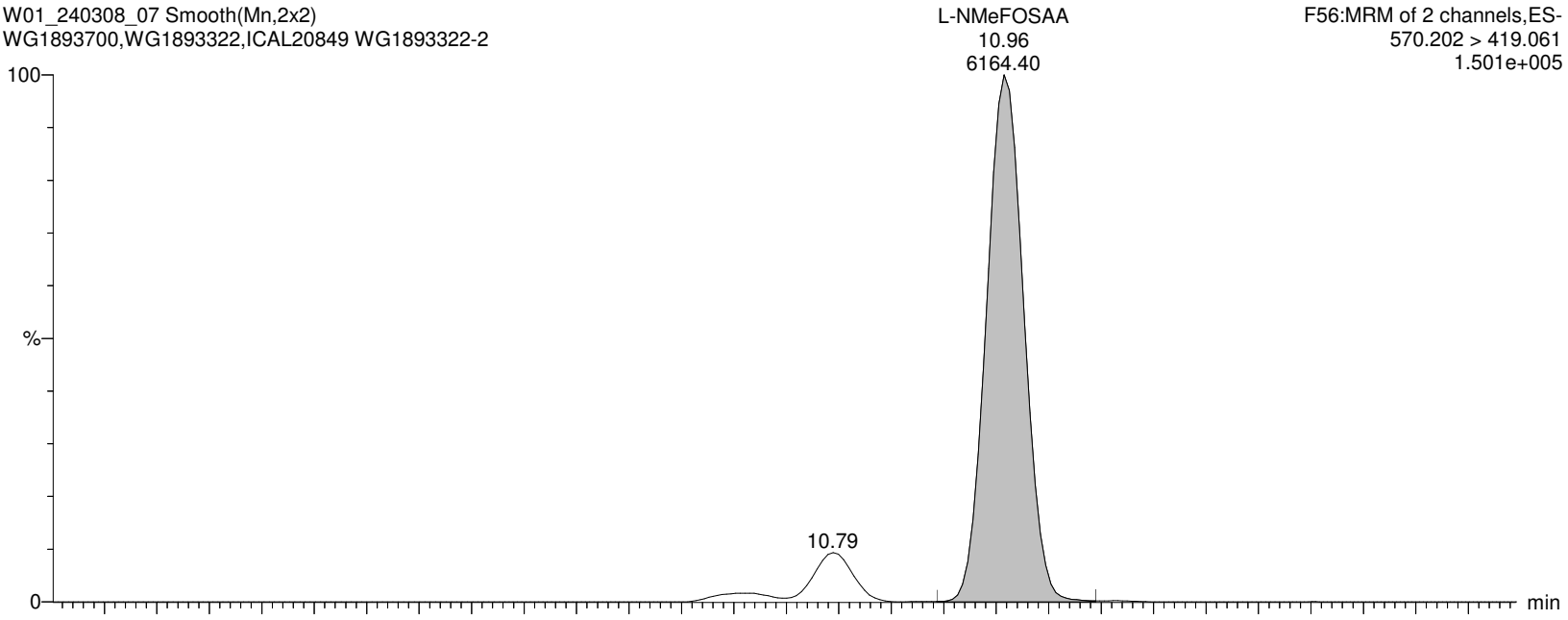

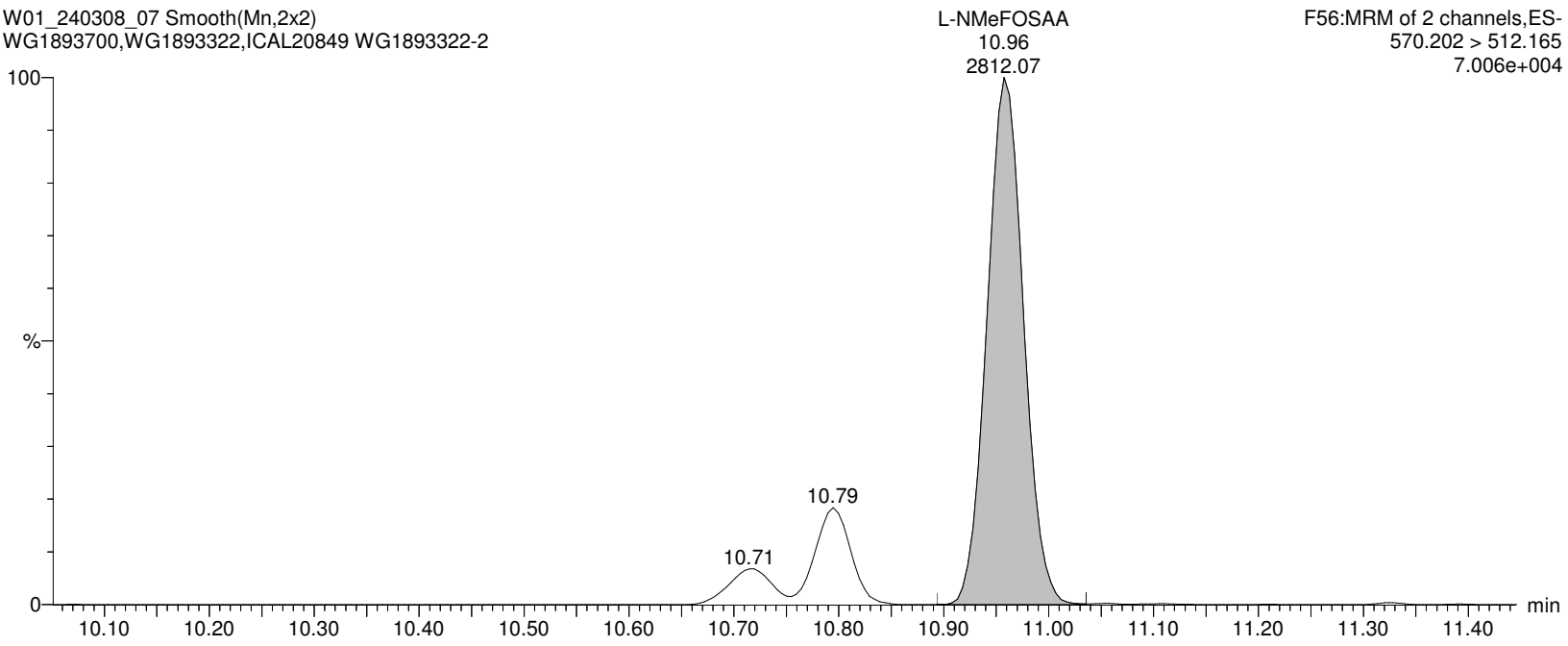

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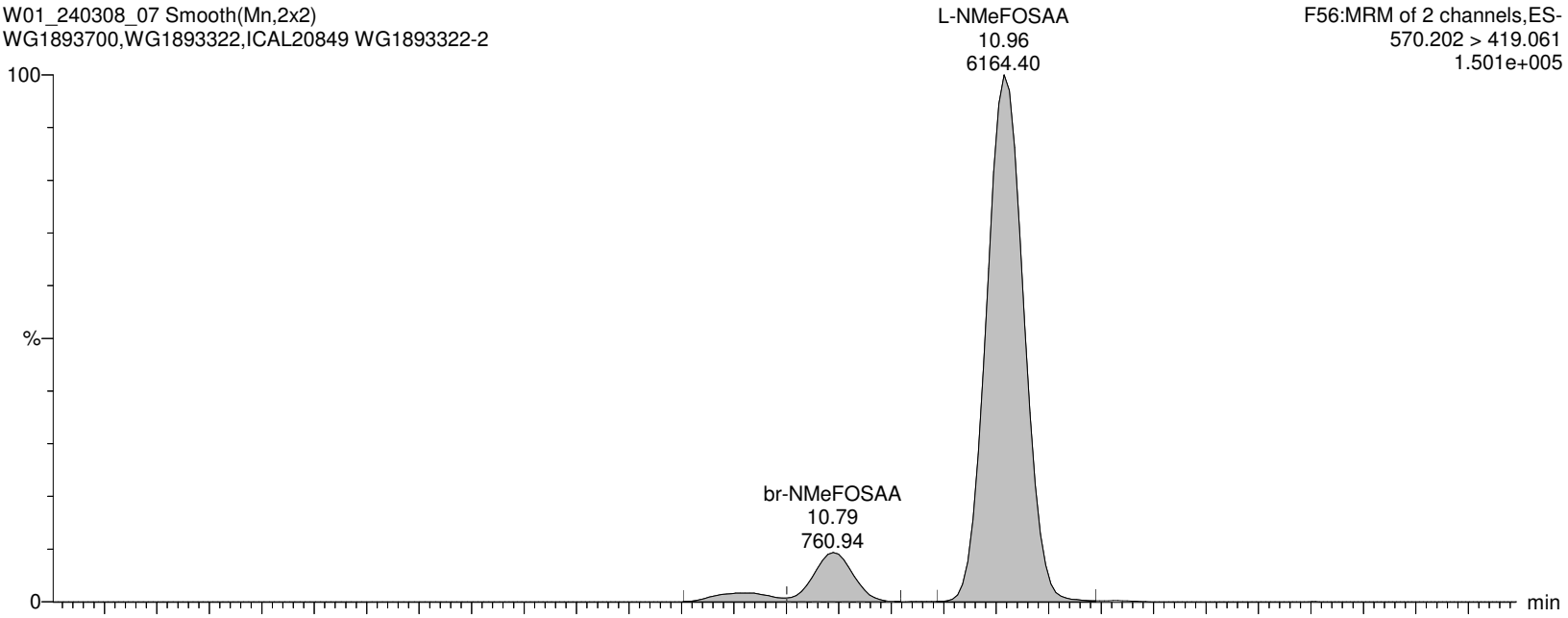

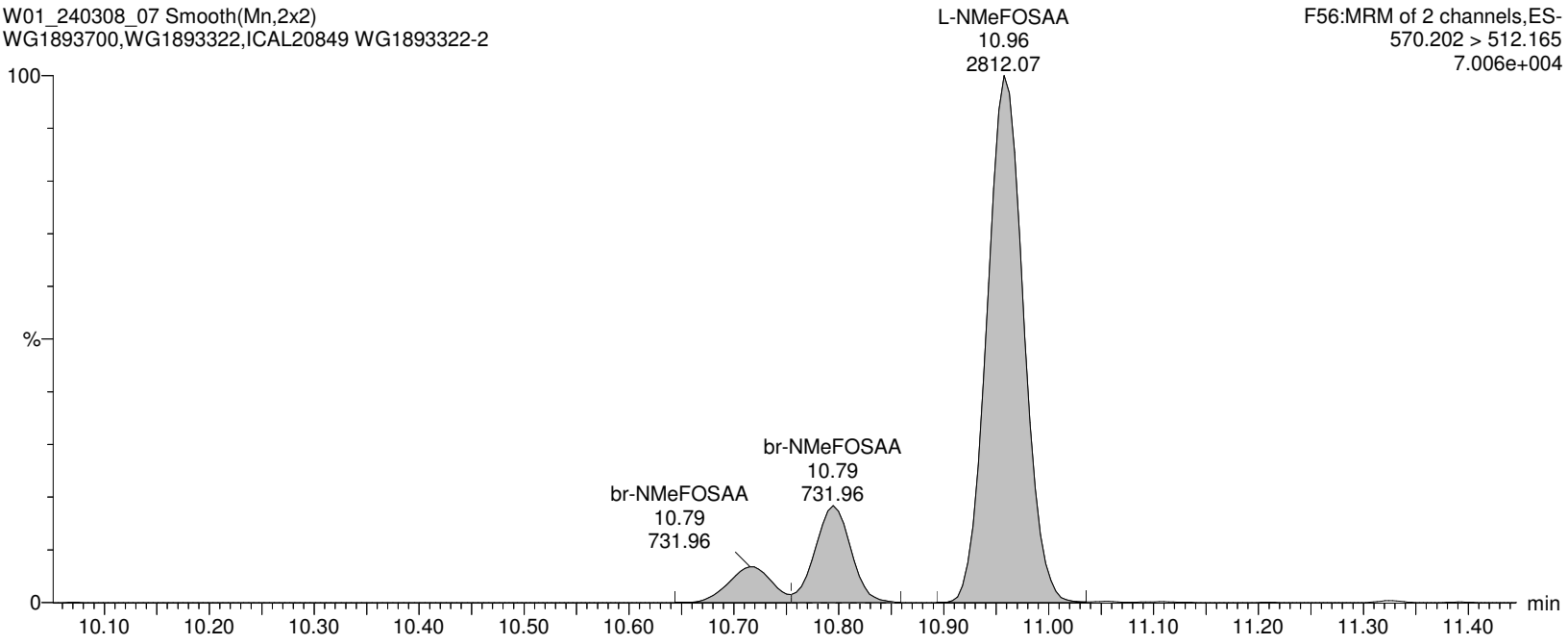

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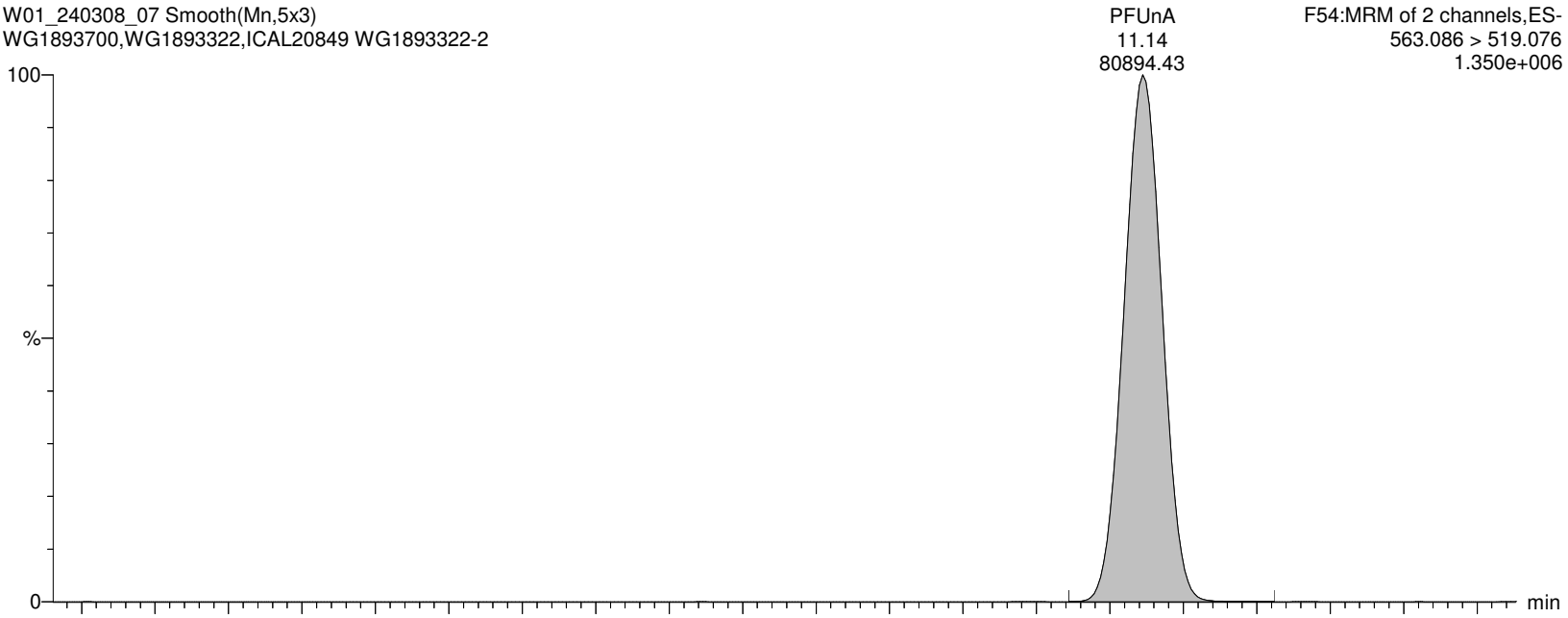

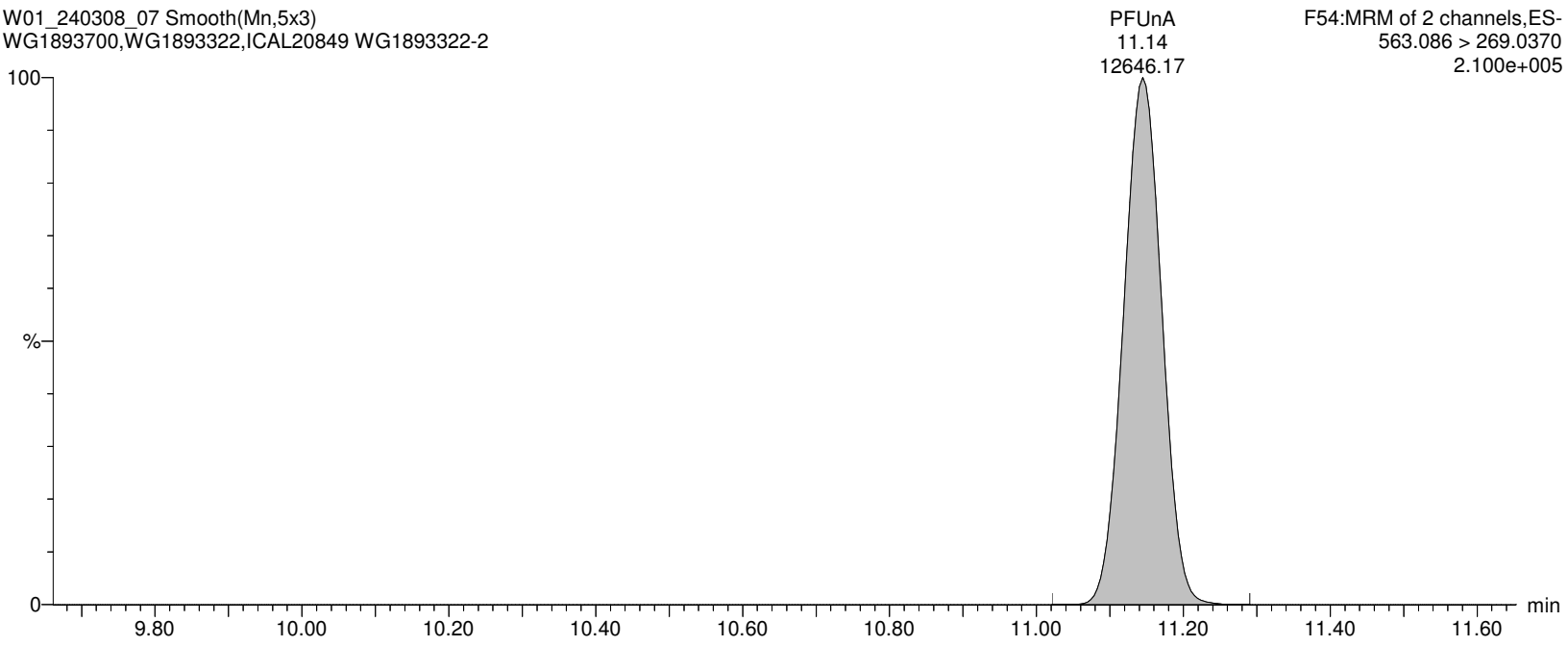

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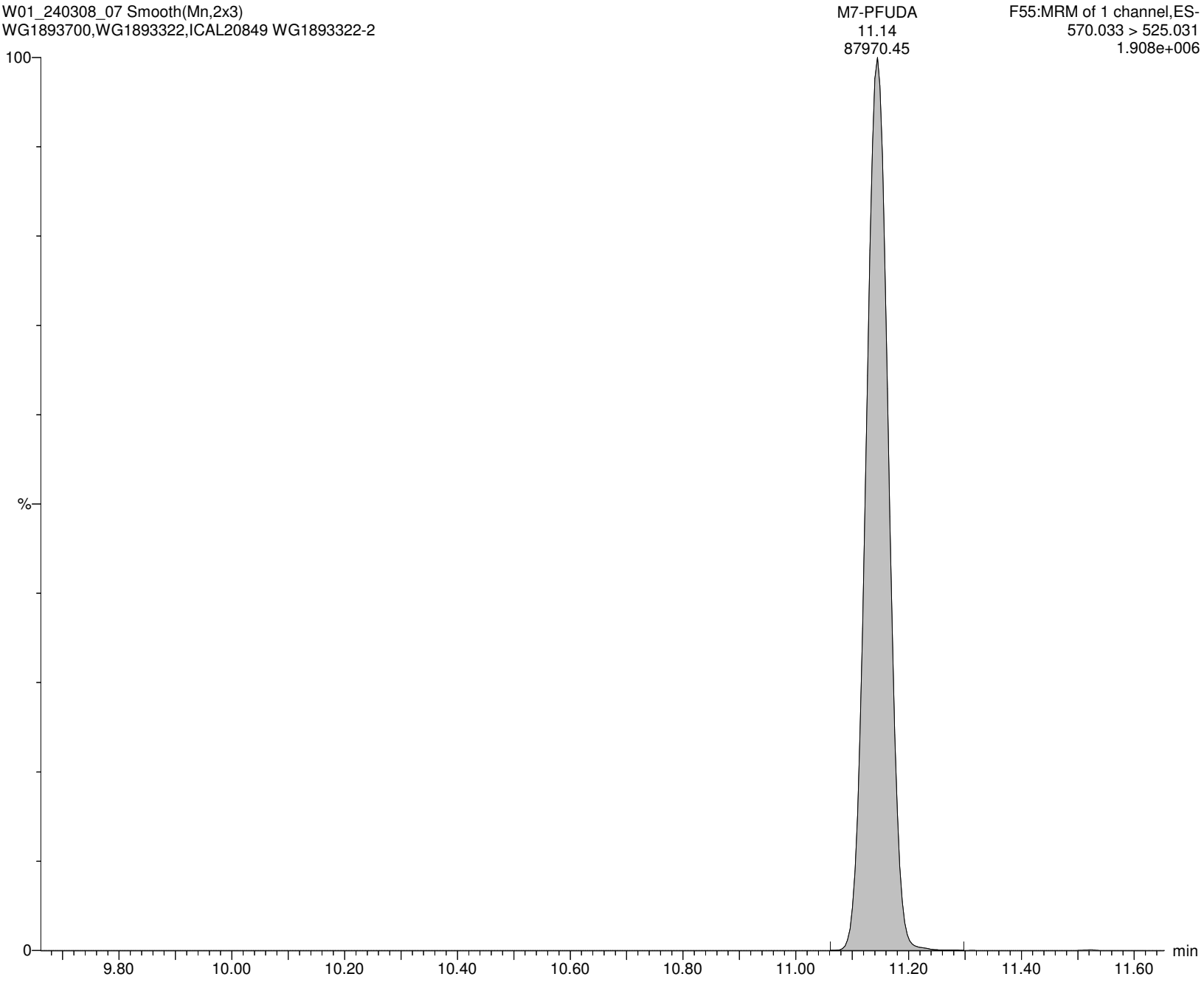

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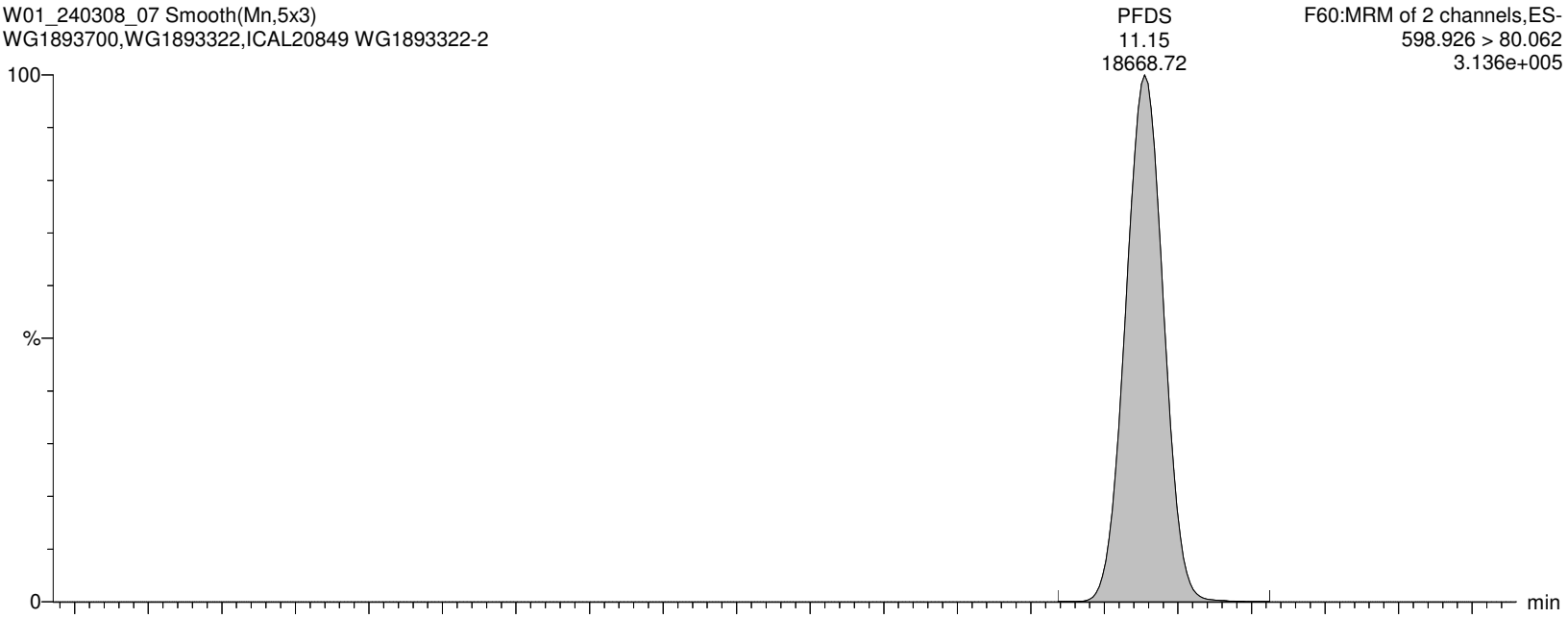

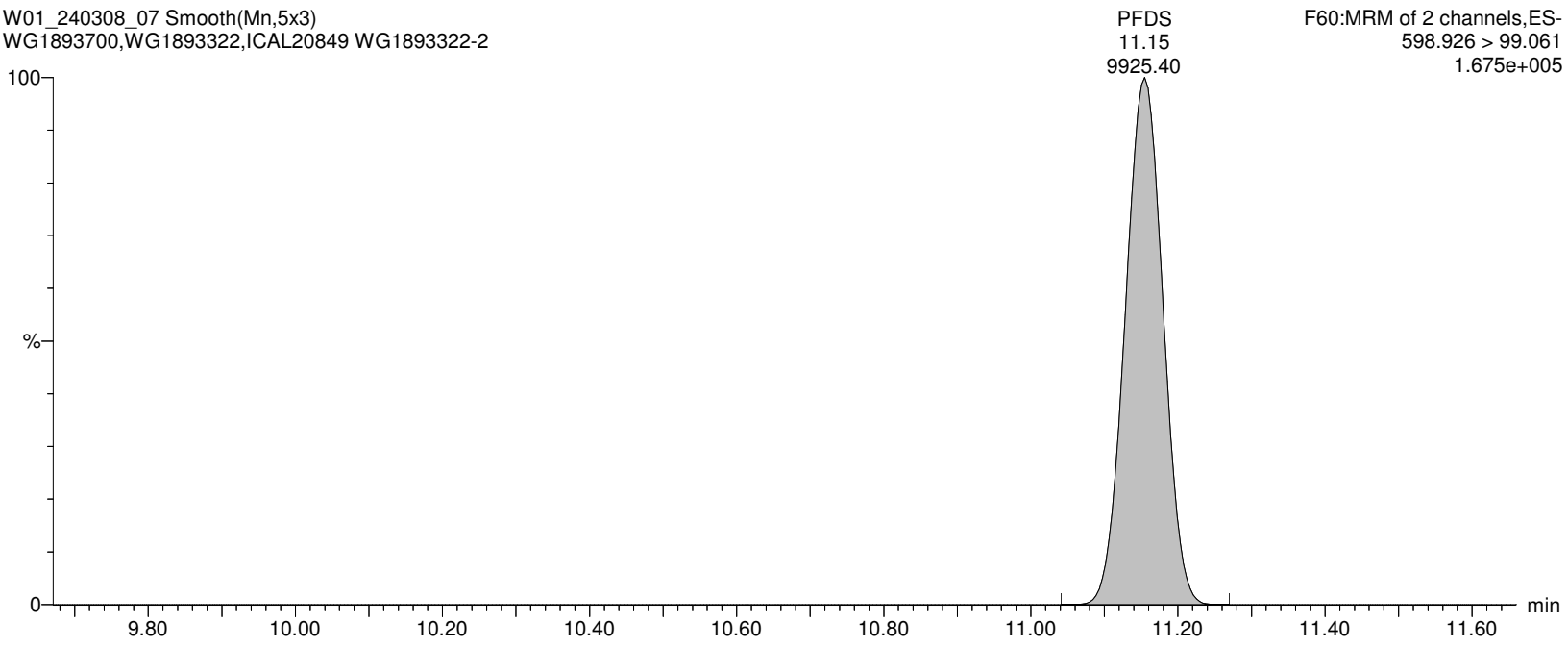

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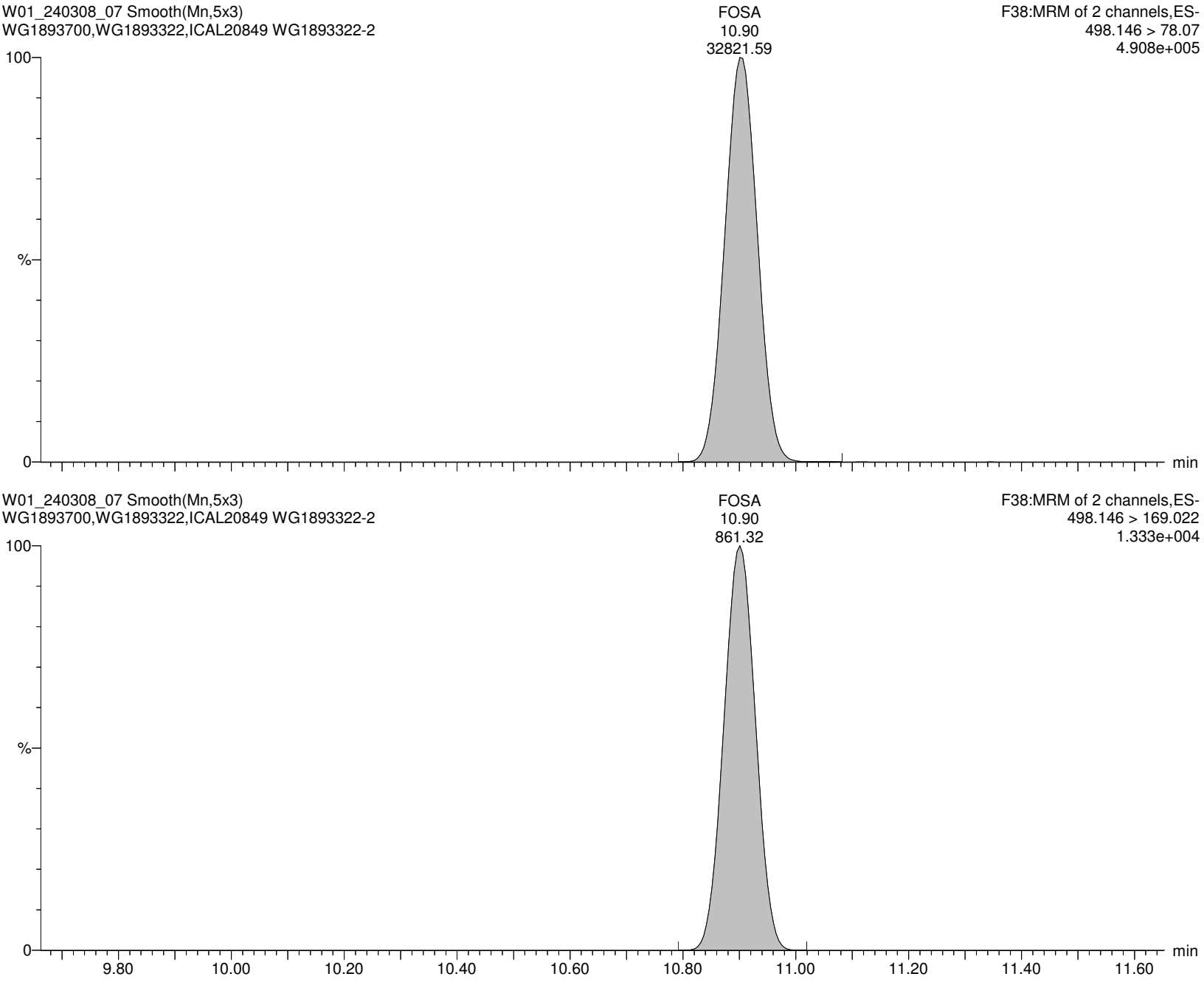

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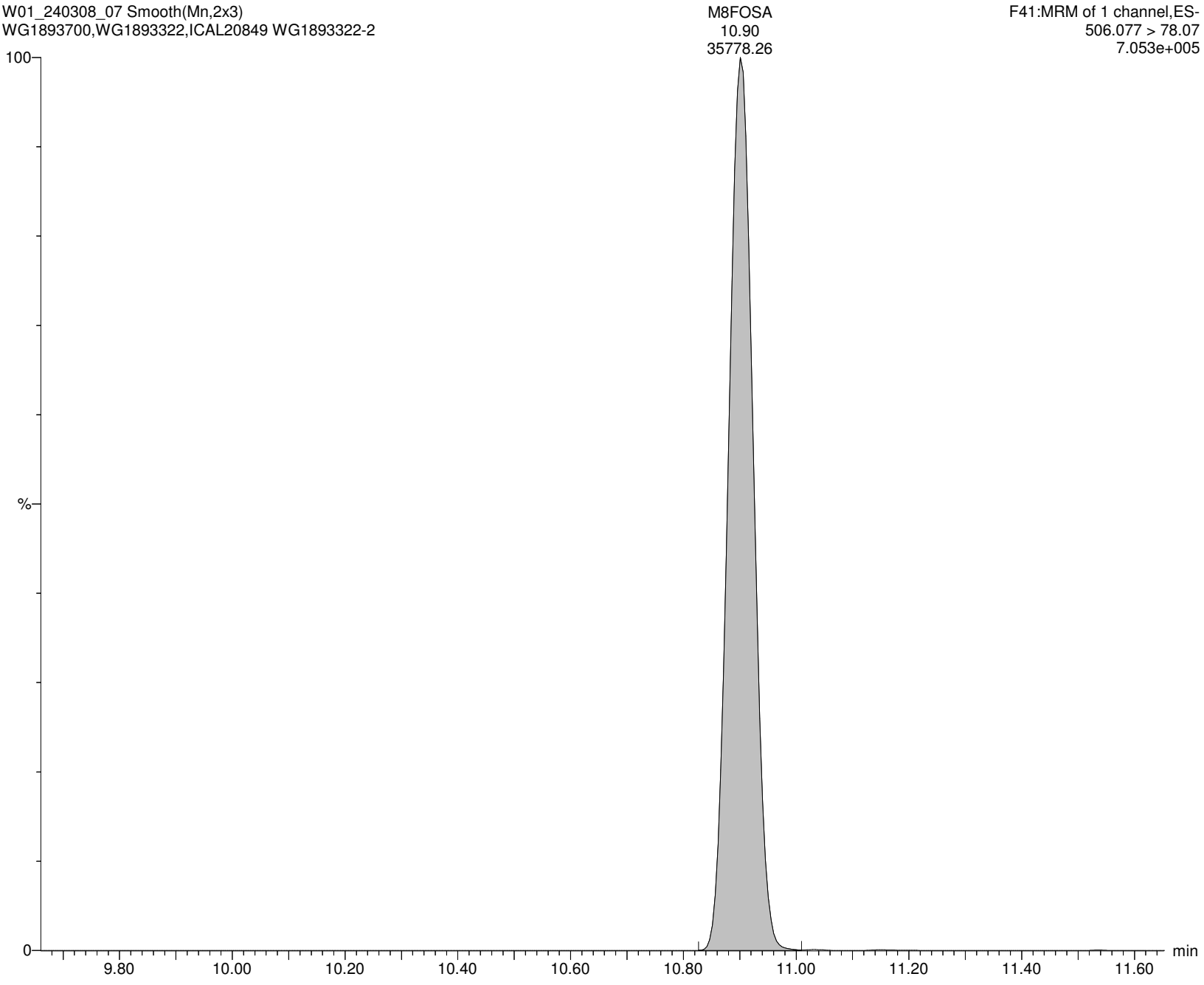

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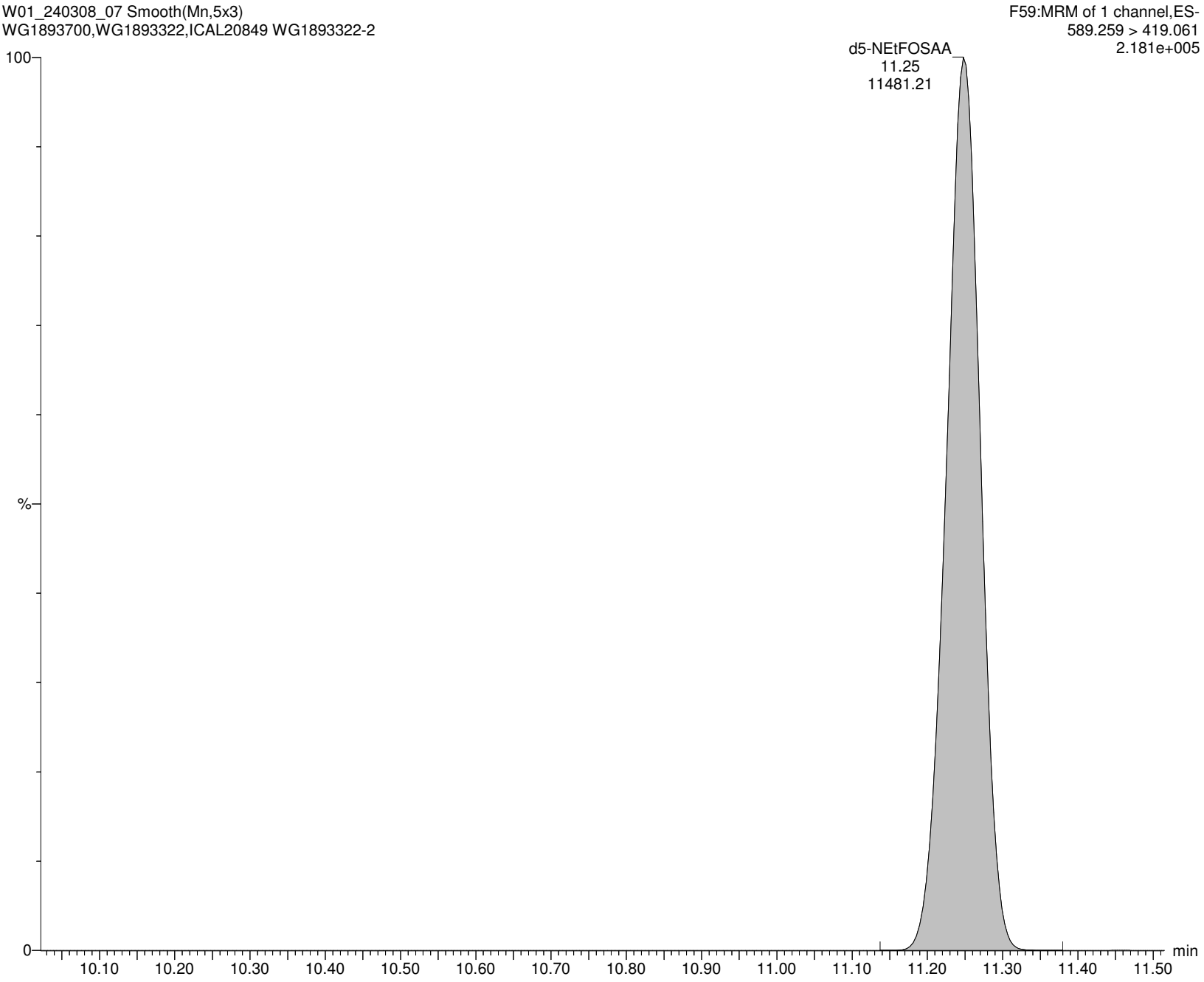

all concentration units in (ng/mL)

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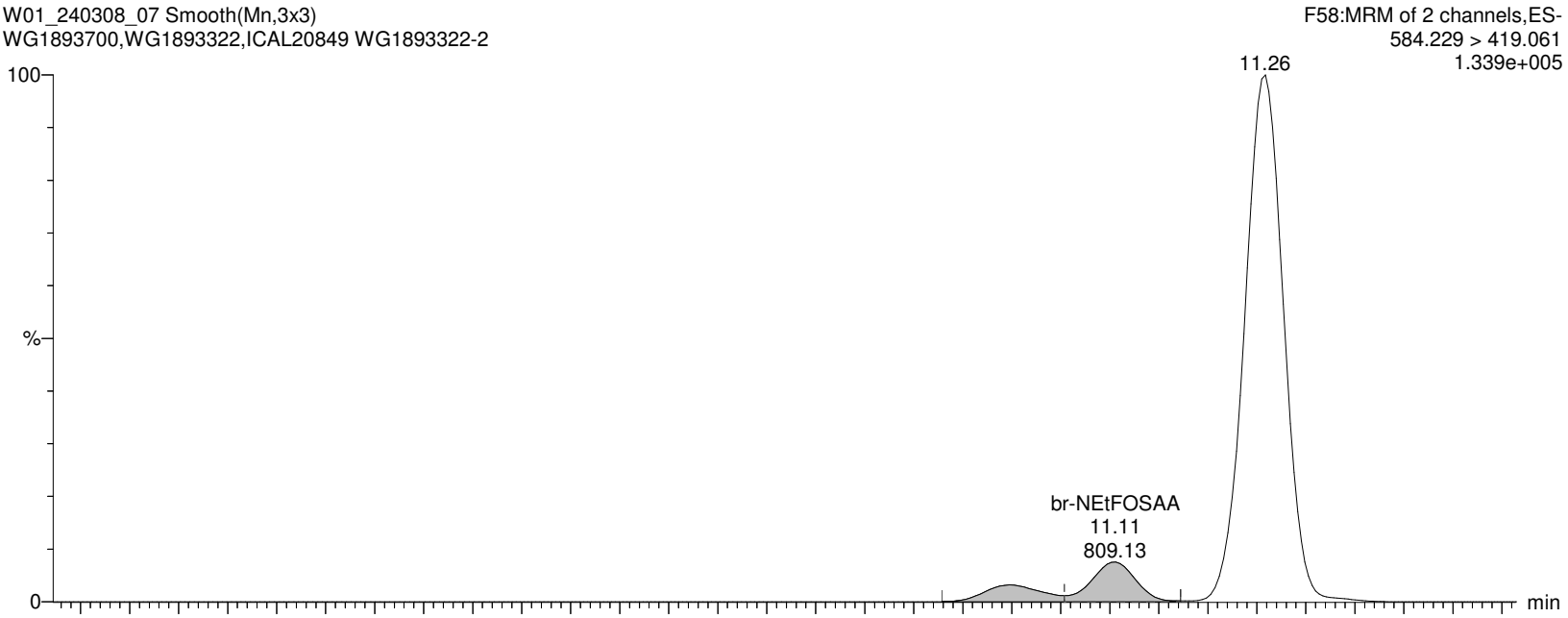

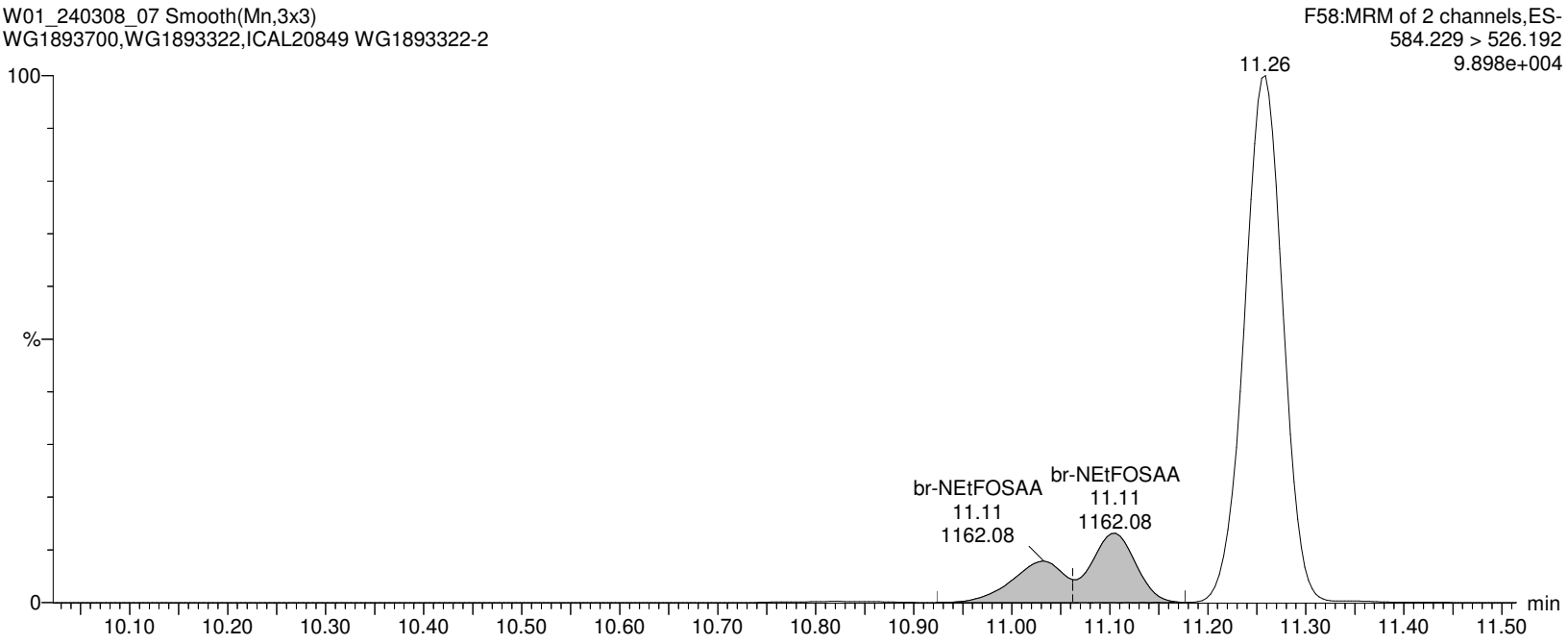

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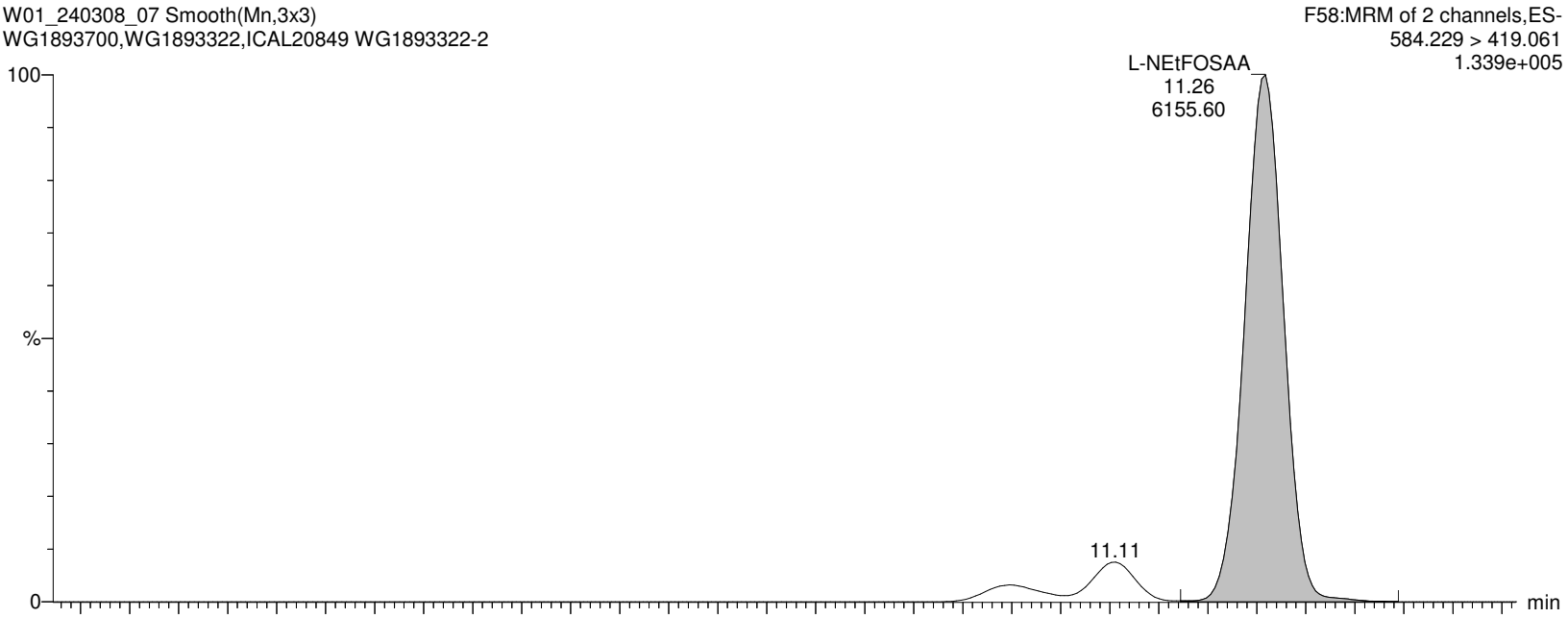

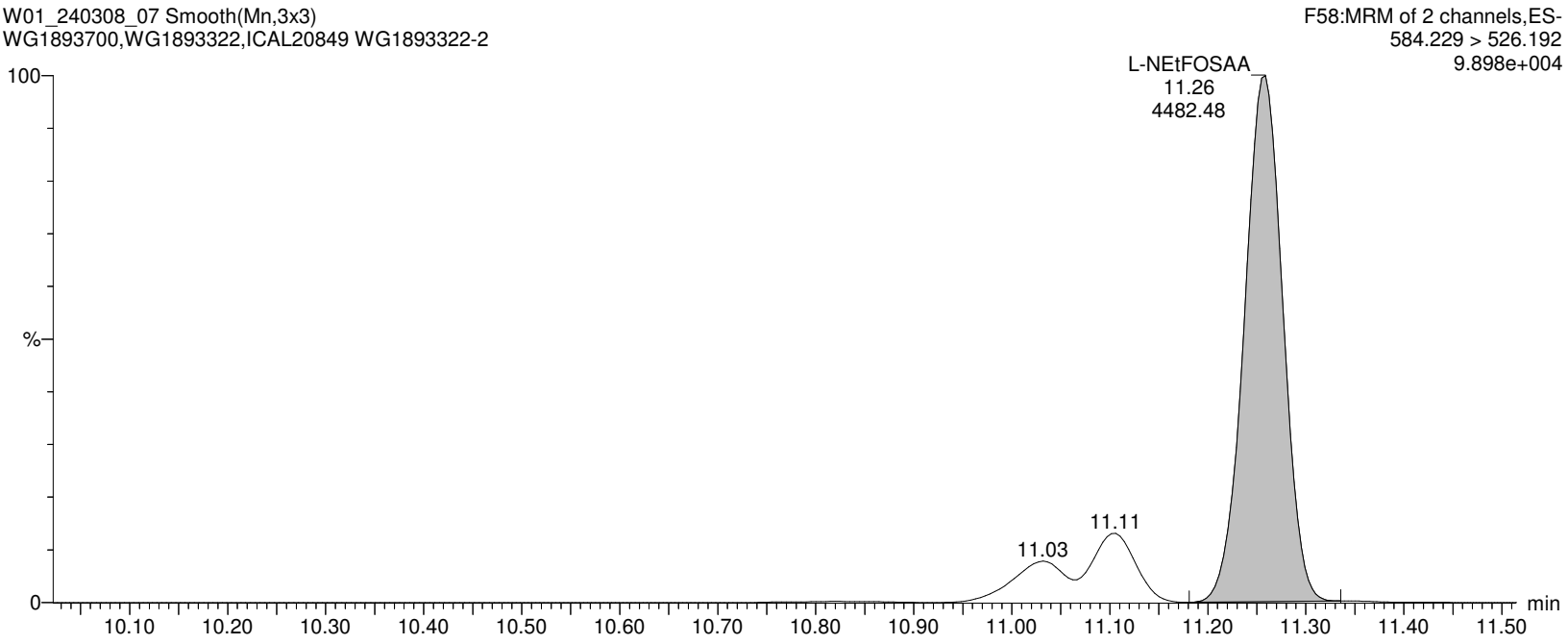

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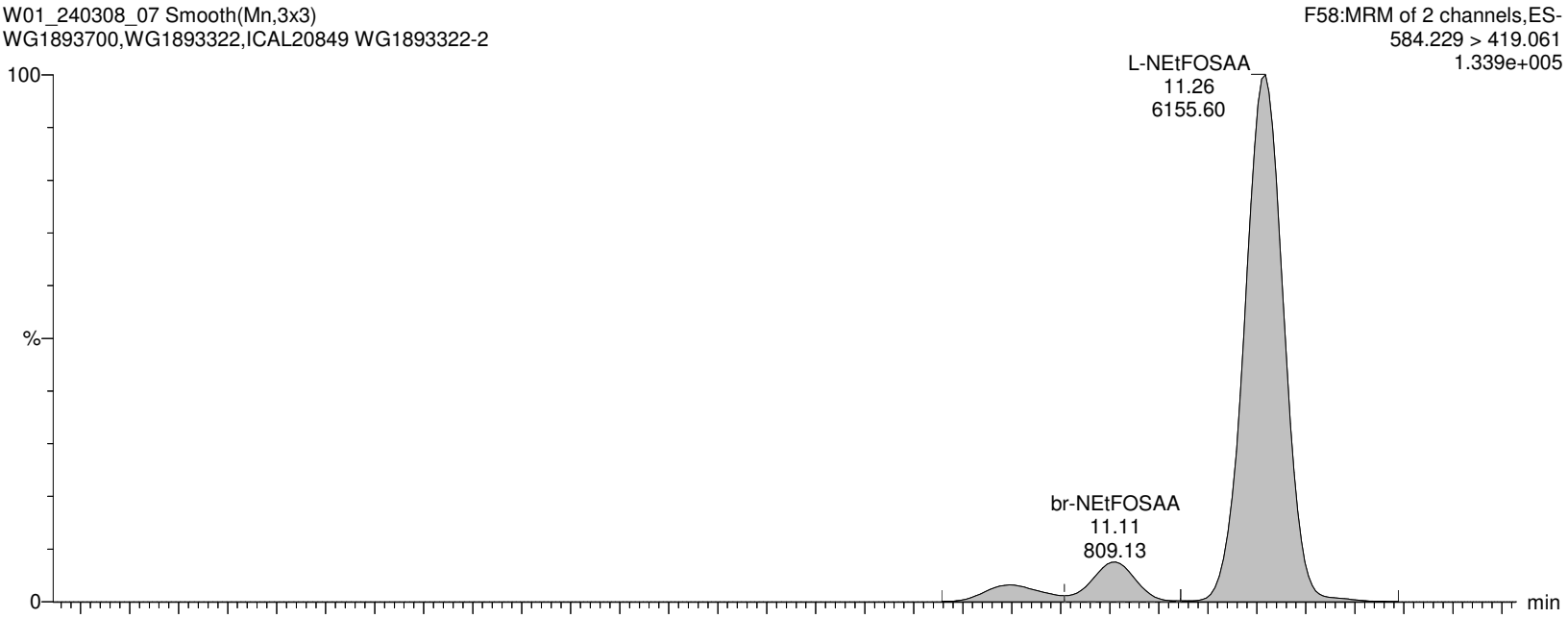

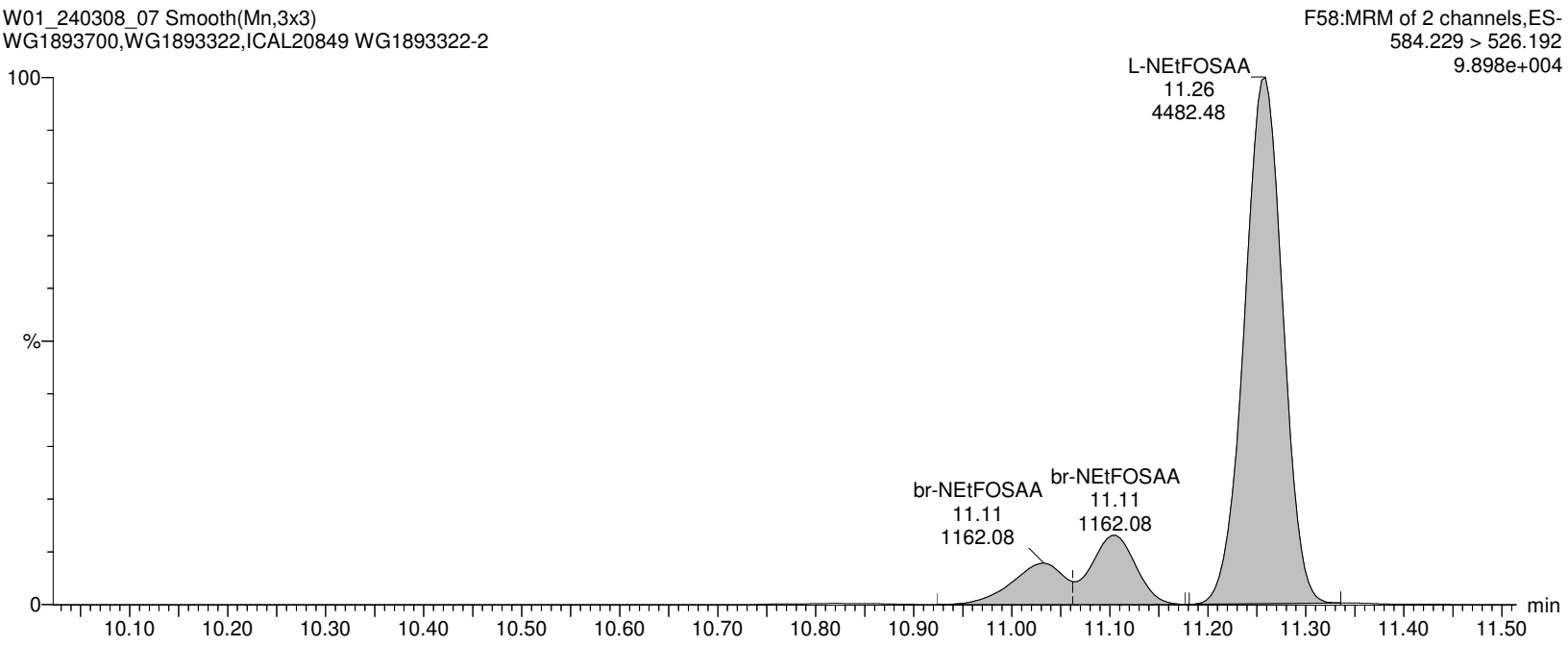

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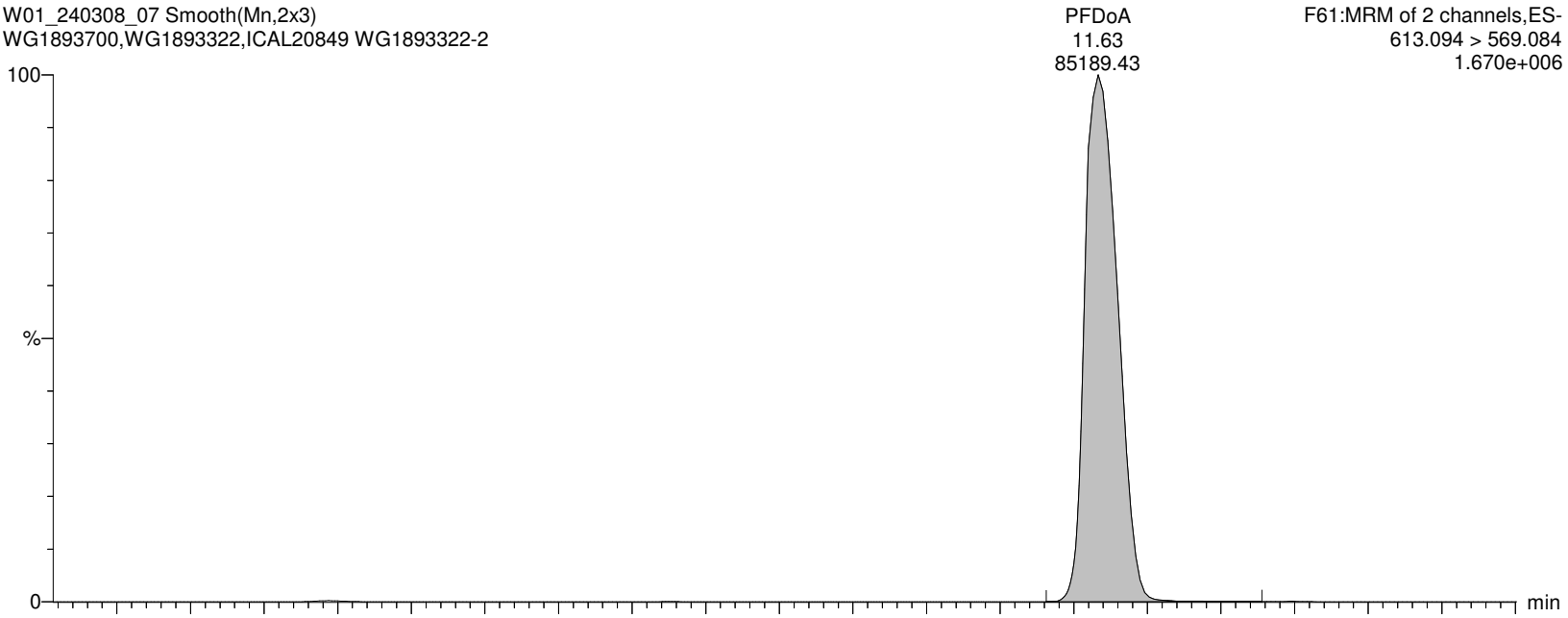

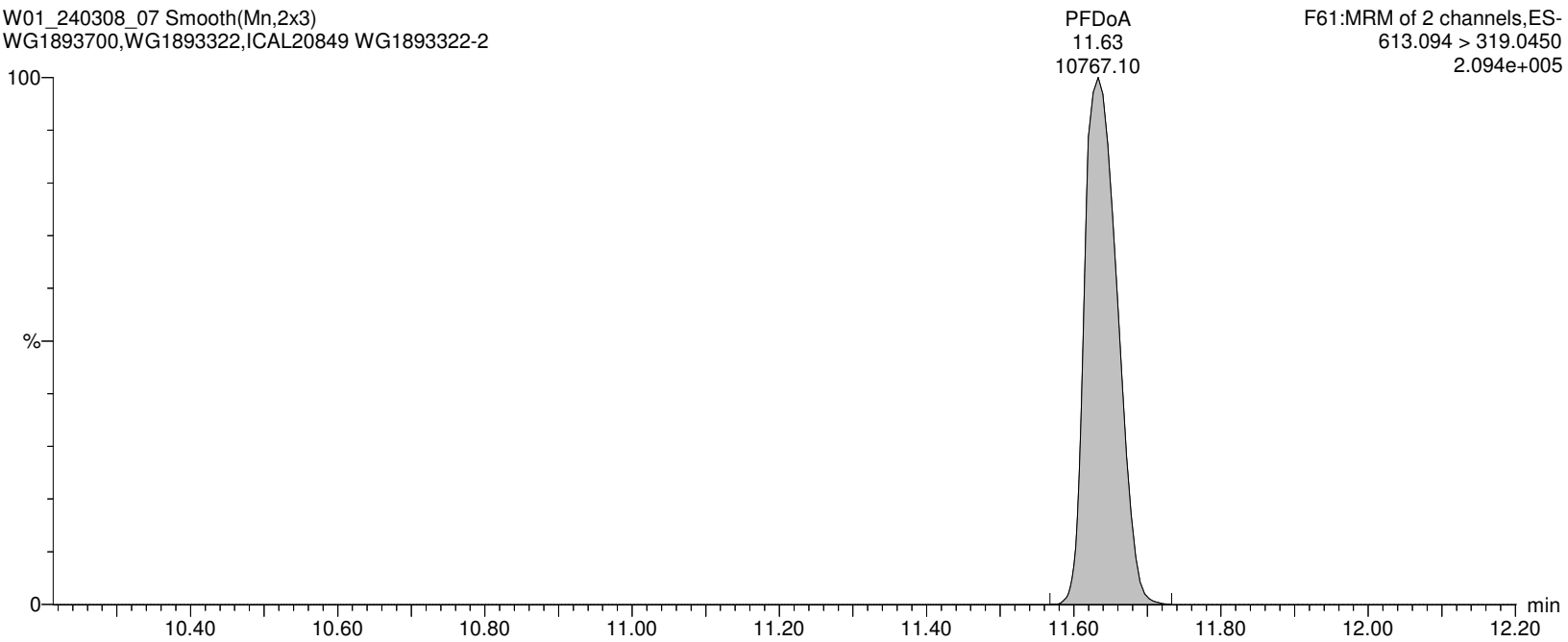

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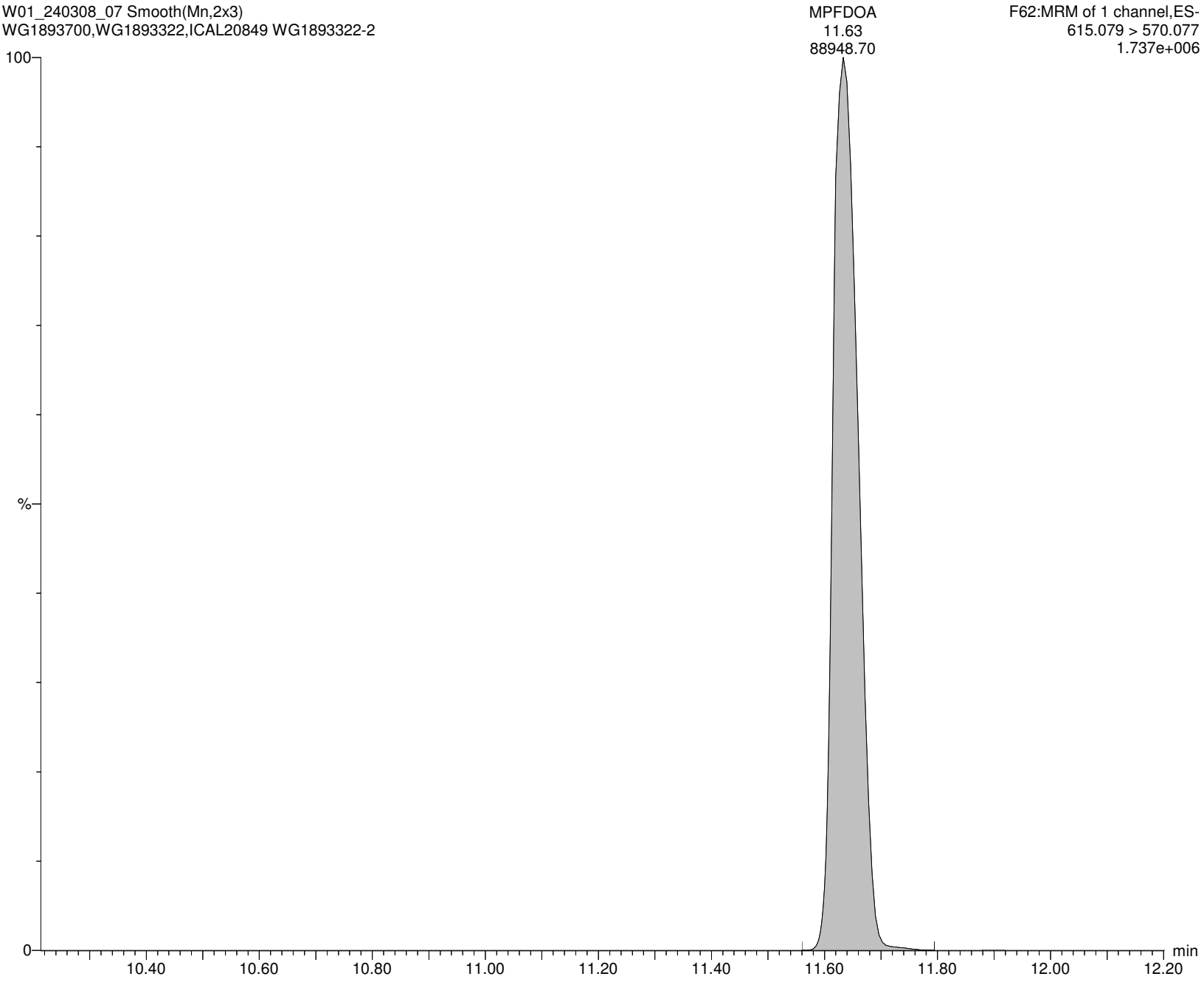

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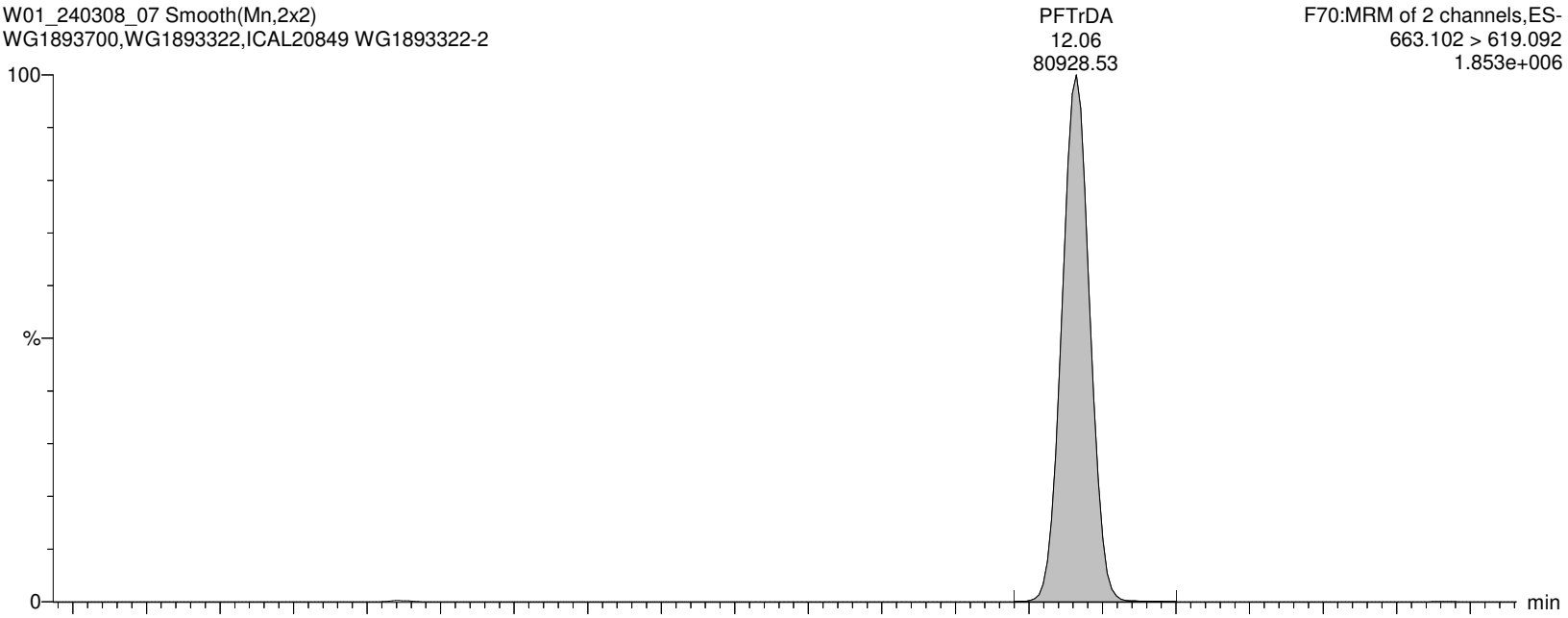

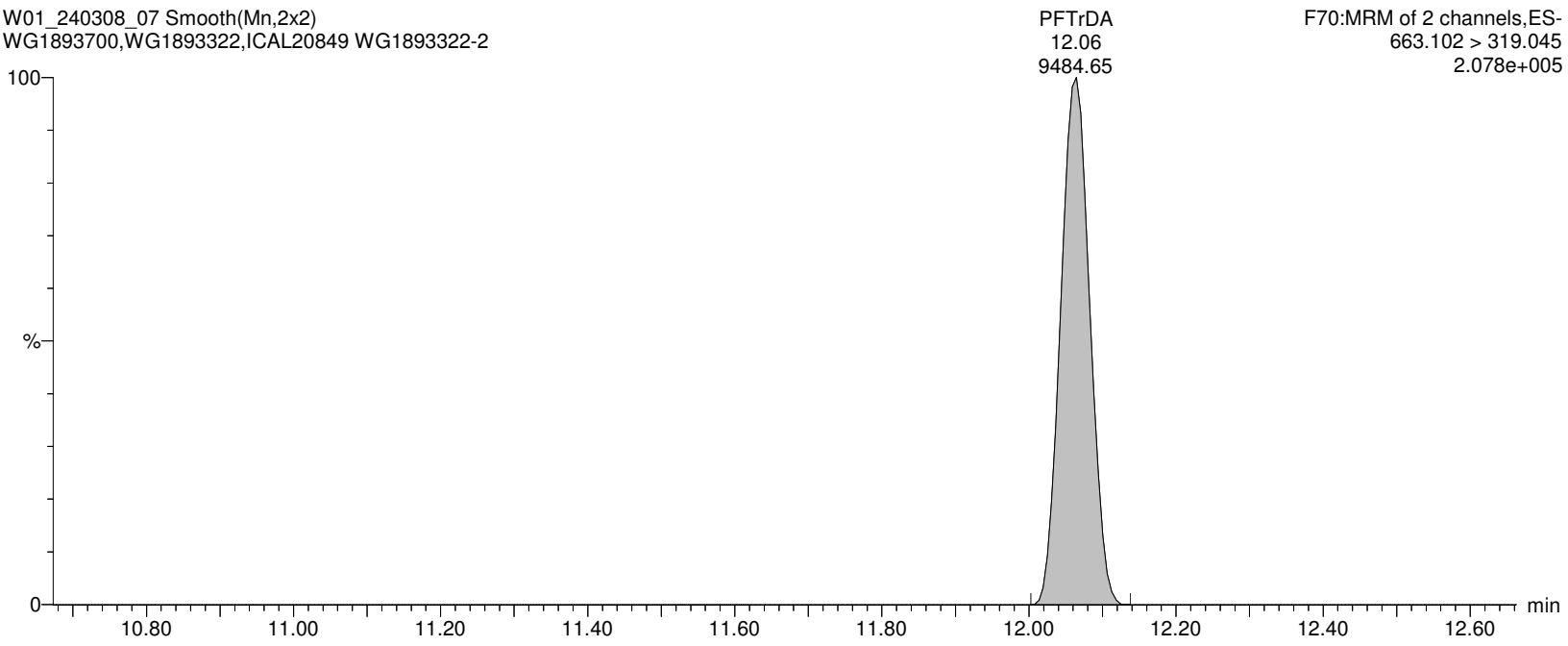

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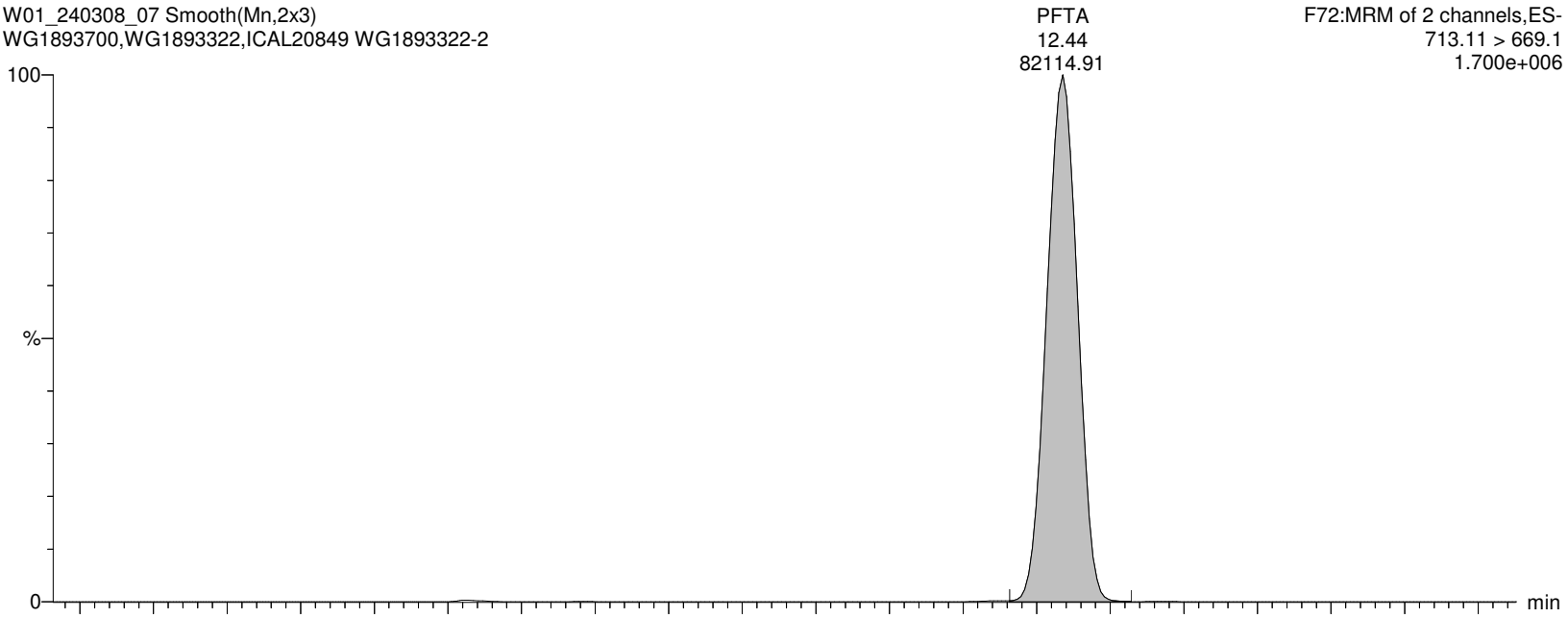
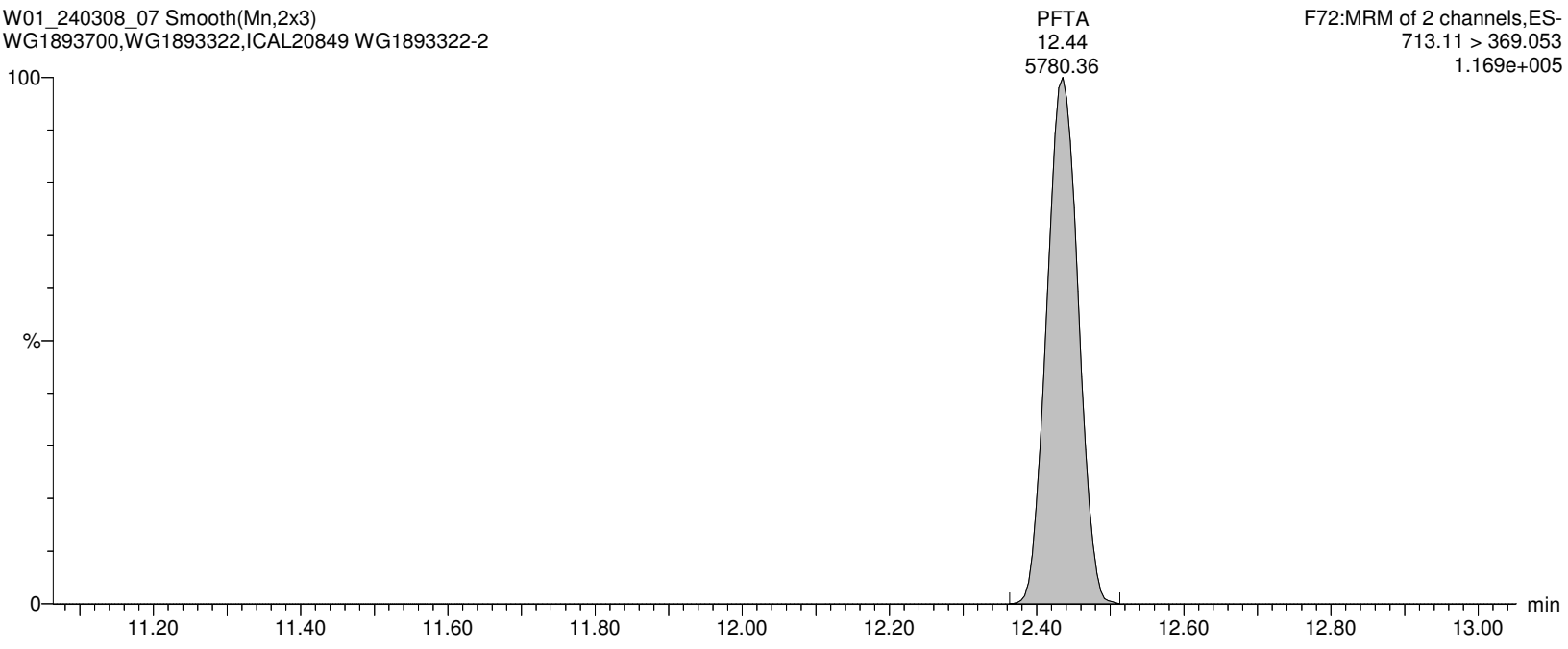
PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:35 Eastern Standard Time

Name: W01_240308_07
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Date: 08-Mar-2024
Time: 06:43:04
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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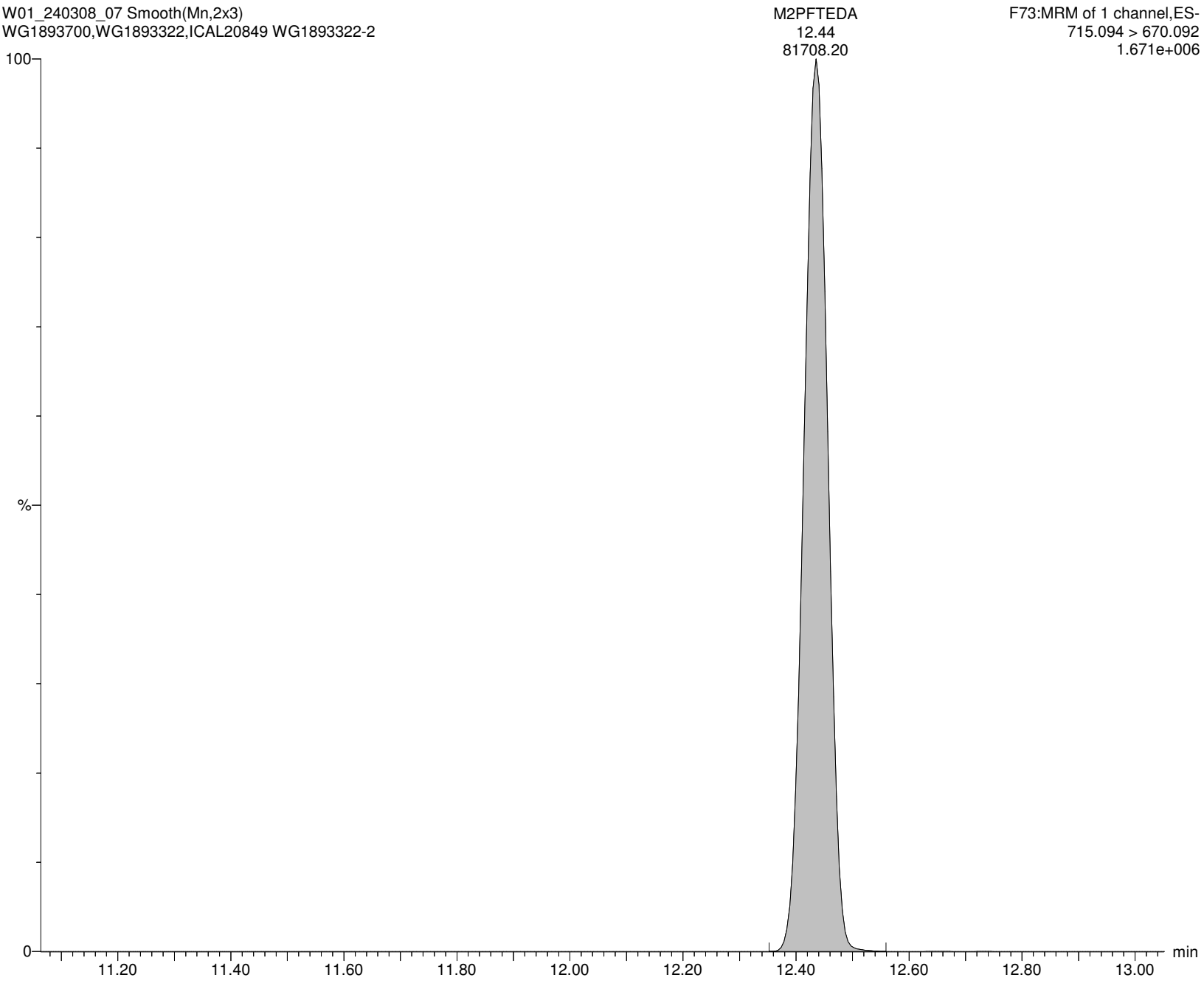

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

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Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	41370		11.812		na	118.1
2	M3PFBA	INT STD	2.23	216.009 > 171.999	35785		4.666		na	46.7
3	MPFBA	INT STD	2.24	217.001 > 171.999	38666		9.497		na	95.0
4	PFPeA	2706-90-3	5.13	263.039 > 219.03	23568		10.868		na	108.7
5	M5PFPEA	INT STD	5.12	268.001 > 222.999	21451		5.046		na	50.5
6	PFBS	375-73-5	5.77	299.092 > 80.062	8485	M4,M7	9.261	1.81	NO	104.4
7	M3PFBS	INT STD	5.77	302.069 > 80.062	8269		7.757		na	83.2
8	4:2FTS	757124-72-4	6.92	327.146 > 307.139	4406		8.171	1.71	NO	87.2
9	M2-4:2FTS	INT STD	6.92	329.13 > 309.124	4994		15.899		na	169.5
10	PFHxA	307-24-4	7.01	313.047 > 269.037	28541		11.763	12.48	NO	117.6
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	25550		7.776		na	77.8
12	PFPeS	2706-91-4	7.31	349.1 > 80.062	8402		7.701	1.59	NO	81.8
13	PFHpA	375-85-9	8.27	363.055 > 319.045	32750		11.578	4.24	NO	115.8
14	M4PFHpA	INT STD	8.27	367.025 > 322.022	28151		8.053		na	80.5
15	br-PFHxS	355-46-4	8.19	399.107 > 80.062	1870	M5,M7	1.769	2.21	NO	102.3
16	L-PFHxS	355-46-4	8.42	399.107 > 80.062	7703		7.039	1.46	NO	95.0
17	PFHxS	355-46-4		399.107 > 80.062	9573		8.808		na	
18	M3PFHxS	INT STD	8.42	402.084 > 80.062	9556		9.320		na	98.3
19	br-PFOA	335-67-1	8.98	413.063 > 369.053	1260	M5	0.318	2.16	NO	3.2
20	L-PFOA	335-67-1	9.21	413.063 > 369.053	60756		15.318	8.35	NO	153.2
21	PFOA	335-67-1		413.063 > 369.053	62016		15.636		na	
22	M8PFOA	INT STD	9.21	421.002 > 376.	38578		10.156		na	101.6
23	M2PFOA	INT STD	9.21	415.048 > 370.045	37529		2.528		na	25.3
24	6:2FTS	27619-97-2	9.16	427.161 > 407.155	6291		9.519	3.06	NO	100.1
25	M2-6:2FTS	INT STD	9.16	429.146 > 409.14	7495		20.771		na	218.4
26	PFHpS	375-92-8	9.30	449.115 > 80.062	9402		8.967	1.53	NO	94.1
27	PFNA	375-95-1	9.97	463.071 > 419.061	45992		10.483	5.37	NO	104.8
28	M9PFNA	INT STD	9.97	472.002 > 427.	43542		11.034		na	110.3
29	br-PFOS	1763-23-1	9.76	499.123 > 80.062	6932	M5,M7	4.686	4.00	NO	239.1
30	L-PFOS	1763-23-1	10.02	499.123 > 80.062	16692	M4,M7	13.202	1.75	NO	180.4
31	PFOS	1763-23-1		499.123 > 80.062	23624		17.889		na	
32	M4PFOS	INT STD	10.02	503.093 > 80.062	11223		3.030		na	31.6
33	M8PFOS	INT STD	10.02	507.062 > 80.062	11331		9.464		na	98.7
34	PFDA	335-76-2	10.61	513.078 > 469.069	41438		10.729	3.90	NO	107.3
35	M2PFDA	INT STD	10.61	515.063 > 470.061	43392		3.234		na	32.3
36	M6PFDA	INT STD	10.61	519.033 > 474.03	39683		9.173		na	91.7
37	8:2FTS	39108-34-4	10.60	527.177 > 507.171	6869		9.182	2.47	NO	95.6
38	M2-8:2FTS	INT STD	10.60	529.162 > 509.155	8854		23.204		na	241.7
39	PFNS	68259-12-1	10.64	549.131 > 80.062	11174		8.904	2.05	NO	92.6

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

ID: WG1893322-3
Name: W01_240308_10
Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AC
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.97	573.22 > 419.061	8996		13.538		na	135.4
41	br-NMeFOSAA	2355-31-9	10.82	570.202 > 419.061	573	M5,M7	2.156	0.87	NO	89.8
42	L-NMeFOSAA	2355-31-9	10.98	570.202 > 419.061	4977		8.037	2.12	NO	105.8
43	NMeFOSAA	2355-31-9		570.202 > 419.061	5550		10.193		na	
44	PFUnA	2058-94-8	11.16	563.086 > 519.076	49898		8.822	6.10	NO	88.2
45	M7-PFUDA	INT STD	11.16	570.033 > 525.031	54637		11.592		na	115.9
46	PFDS	335-77-3	11.17	598.926 > 80.062	10997		9.725	1.85	NO	100.8
47	FOSA	754-91-6	10.93	498.146 > 78.07	10097		8.389	63.00	YES	83.9
48	M8FOSA	INT STD	10.93	506.077 > 78.07	10907		3.429		na	34.3
49	d5-NEtFOSAA	INT STD	11.26	589.259 > 419.061	8859		14.146		na	141.5
50	br-NEtFOSAA	2991-50-6	11.12	584.229 > 419.061	655	M5,M7	1.962	0.71	NO	87.2
51	L-NEtFOSAA	2991-50-6	11.27	584.229 > 419.061	5225		7.360	1.38	NO	95.0
52	NEtFOSAA	2991-50-6		584.229 > 419.061	5880		9.322		na	
53	PFDoA	307-55-1	11.65	613.094 > 569.084	53979		8.844	8.19	NO	88.4
54	MPFDOA	INT STD	11.65	615.079 > 570.077	56556		10.691		na	106.9
55	PFTrDA	72629-94-8	12.07	663.102 > 619.092	51108		12.019	7.38	NO	120.2
56	PFTA	376-06-7	12.44	713.11 > 669.1	57787		9.365	13.58	NO	93.7
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	55671		11.669		na	116.7

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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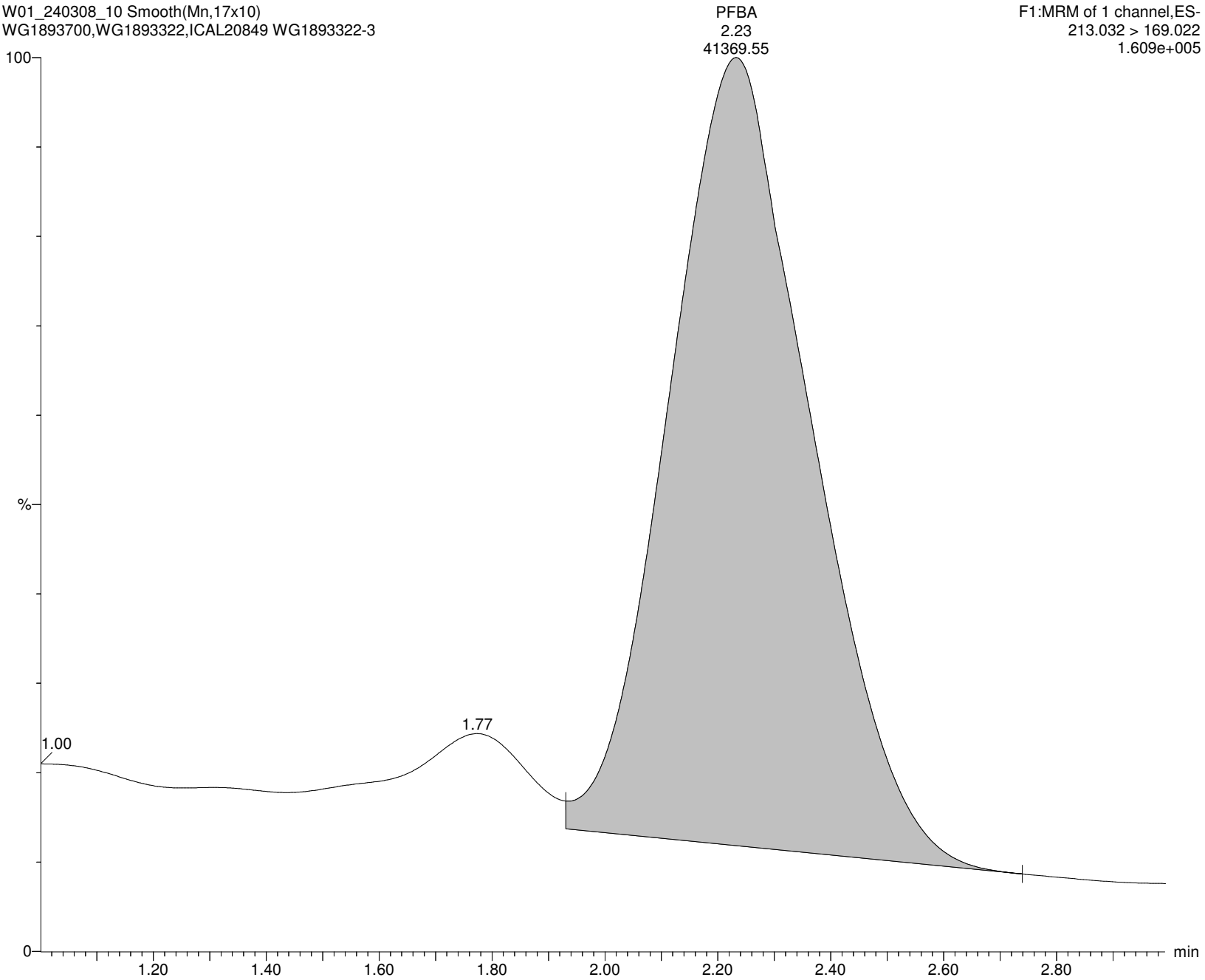

all concentration units in (ng/mL)

Alpha Analytical Inc.
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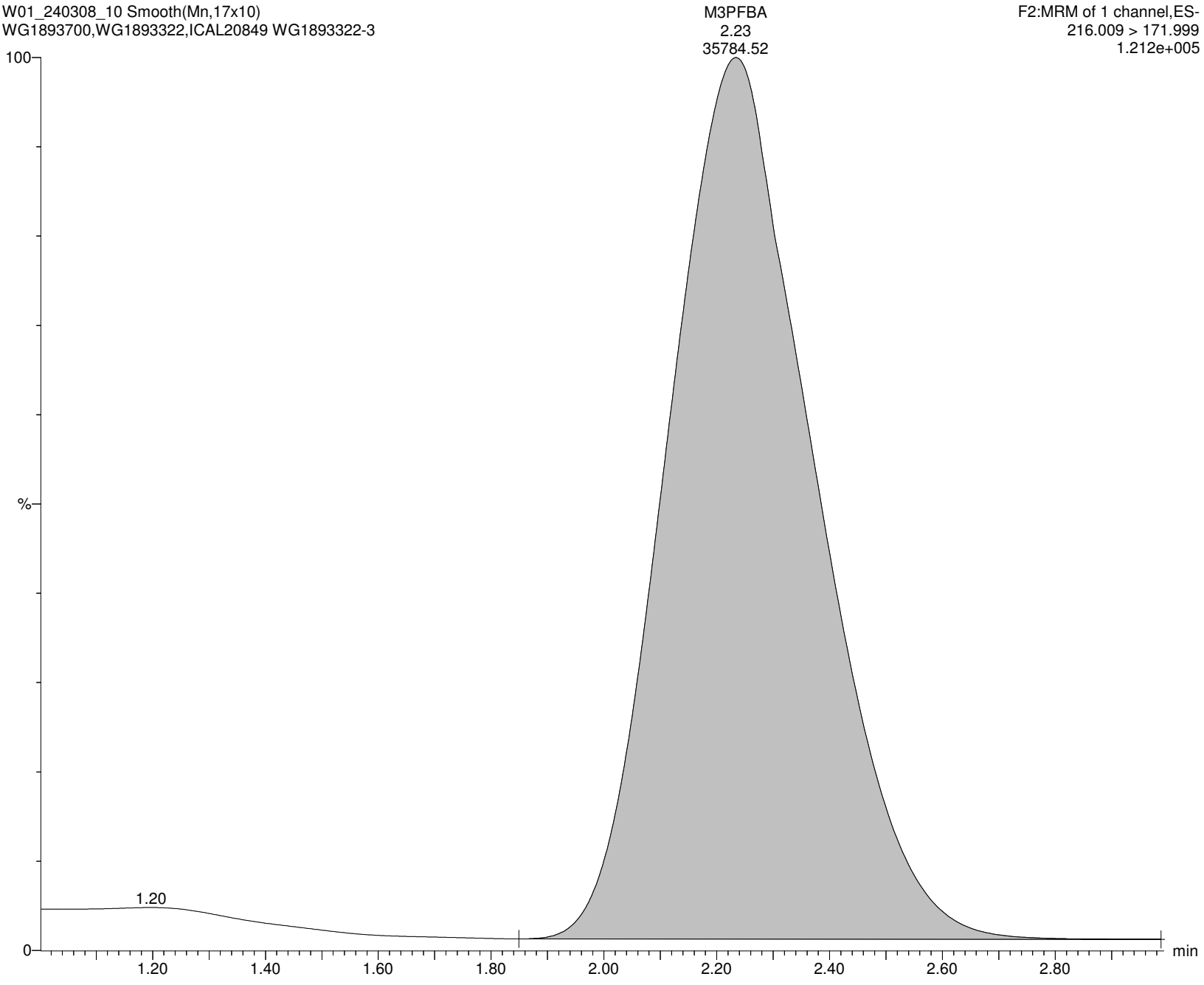

all concentration units in (ng/mL)

Alpha Analytical Inc.
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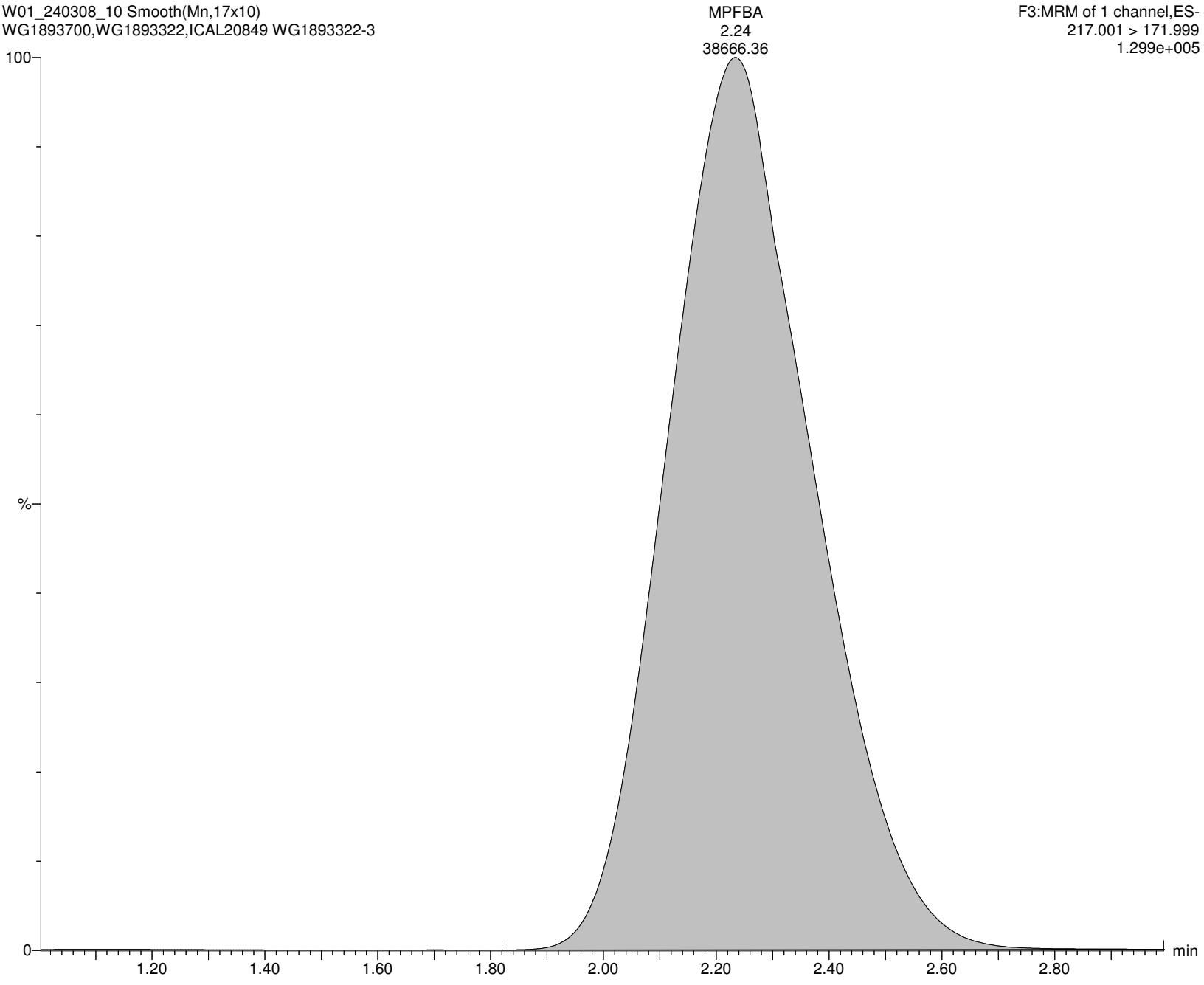

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 07:32:43
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Vial: 1:B,5
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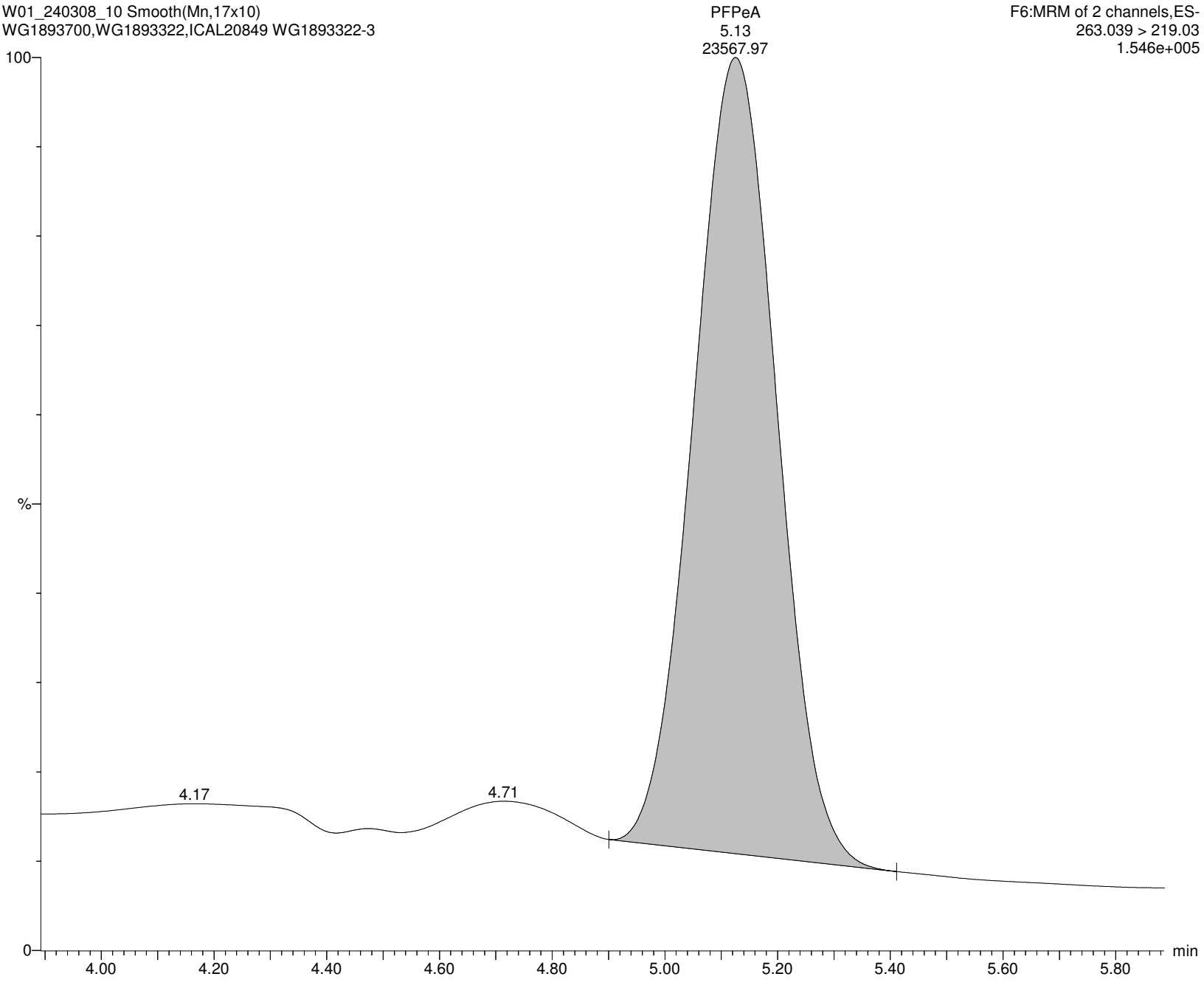
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: W01_240308_10
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Date: 08-Mar-2024
Time: 07:32:43
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User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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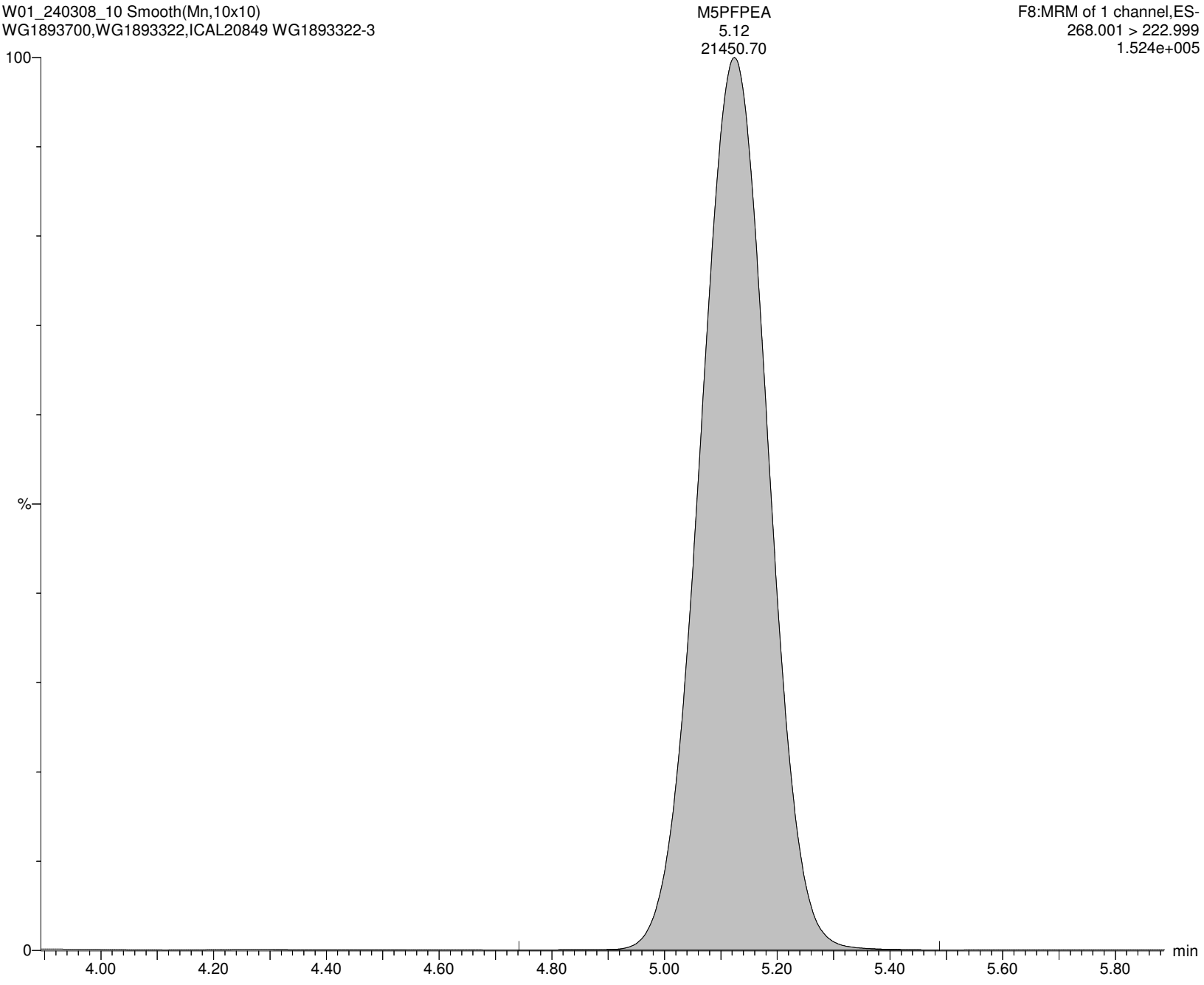

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AC
Vial: 1:B,5
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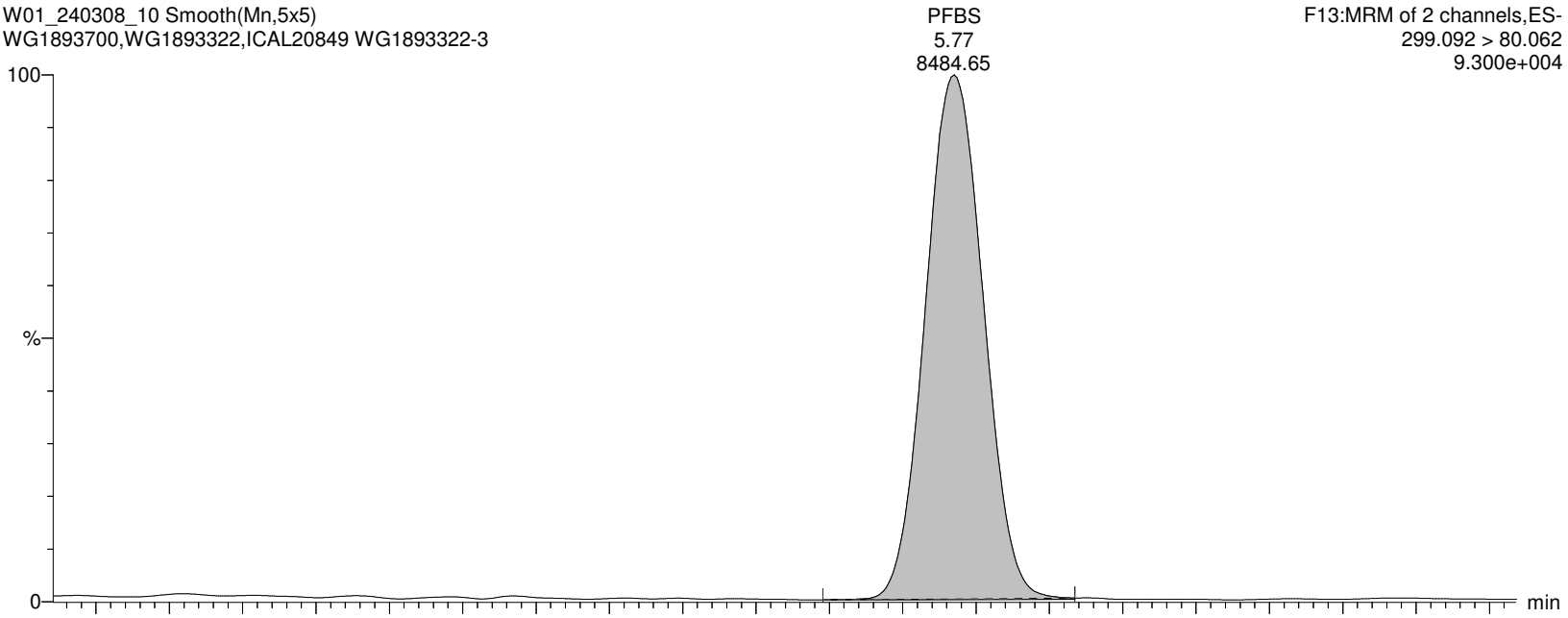

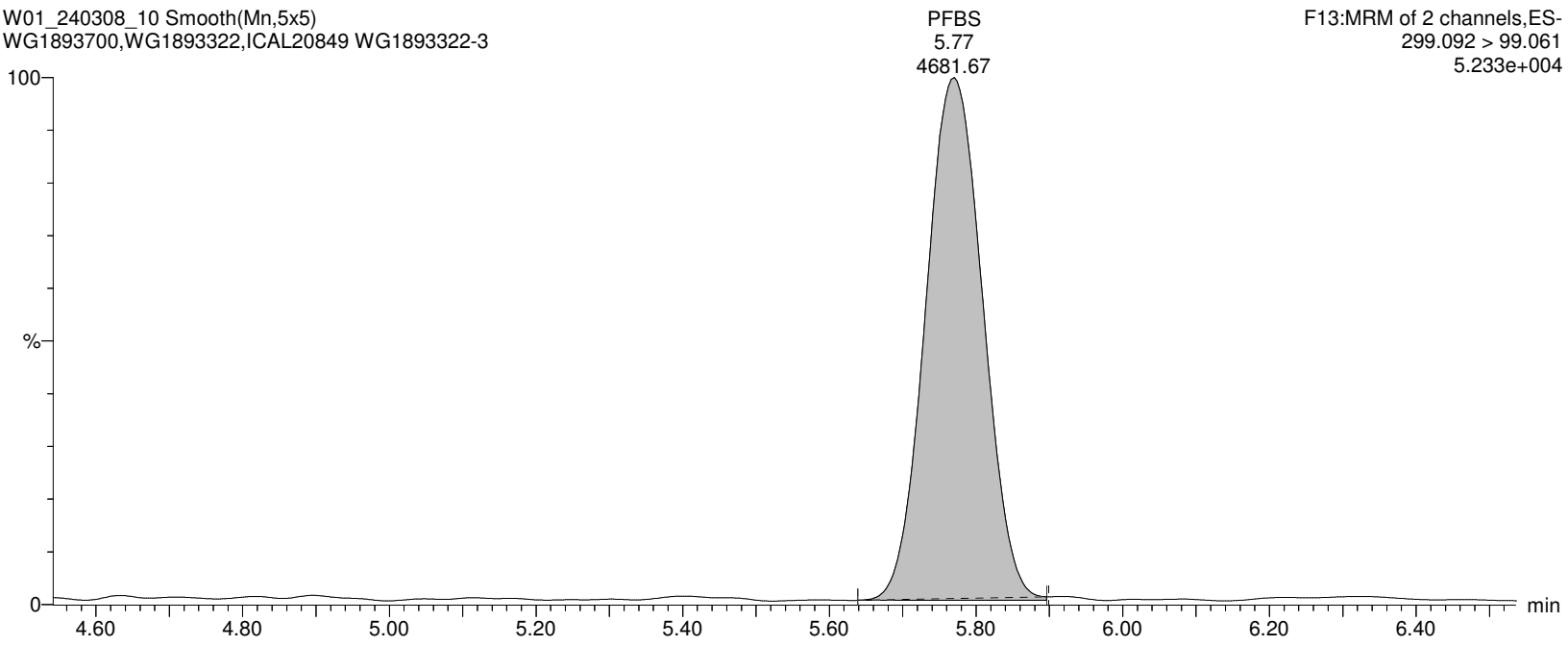

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Description: WG1893700,WG1893322,ICAL20849
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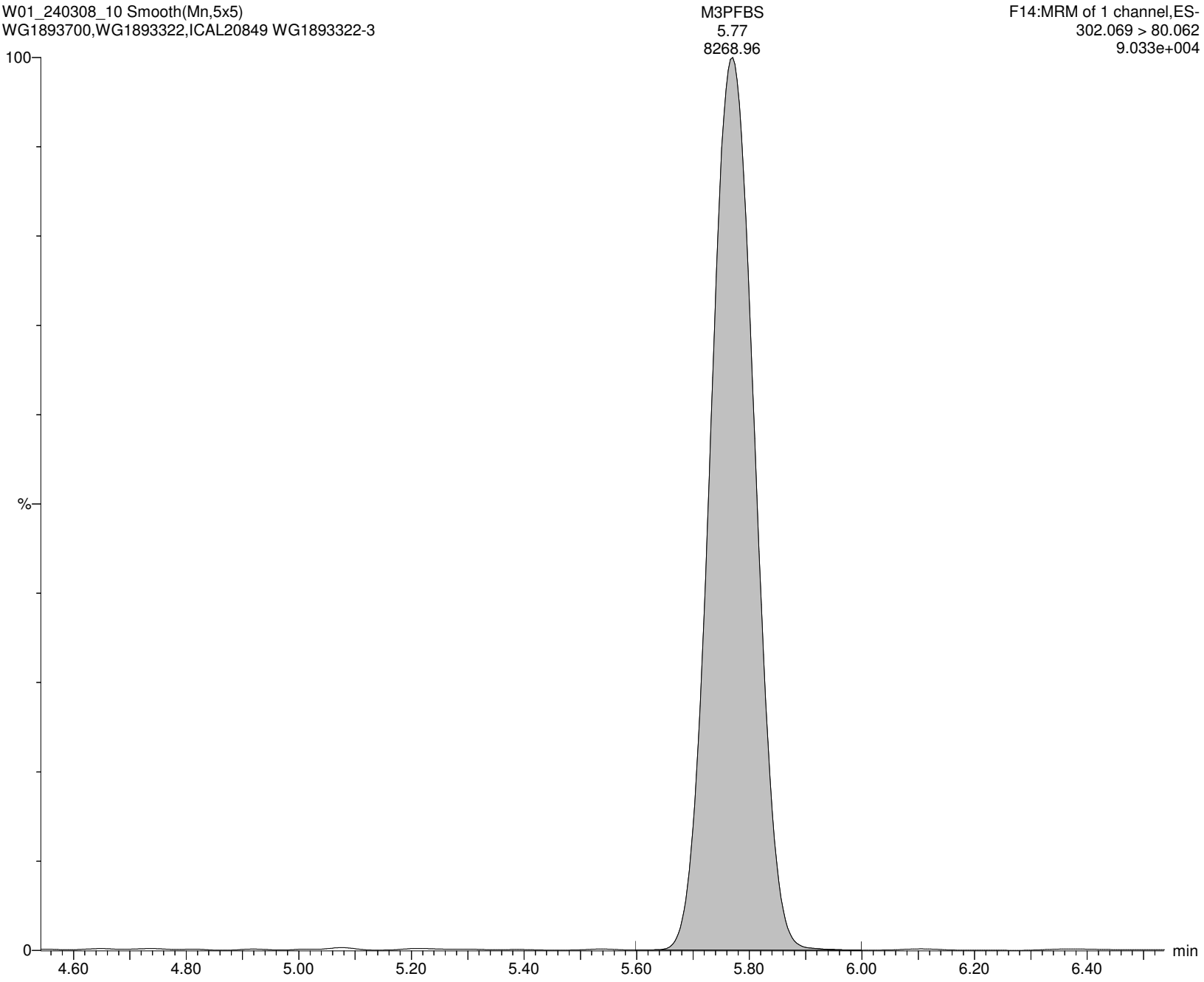

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

Name: W01_240308_10
ID: WG1893322-3
Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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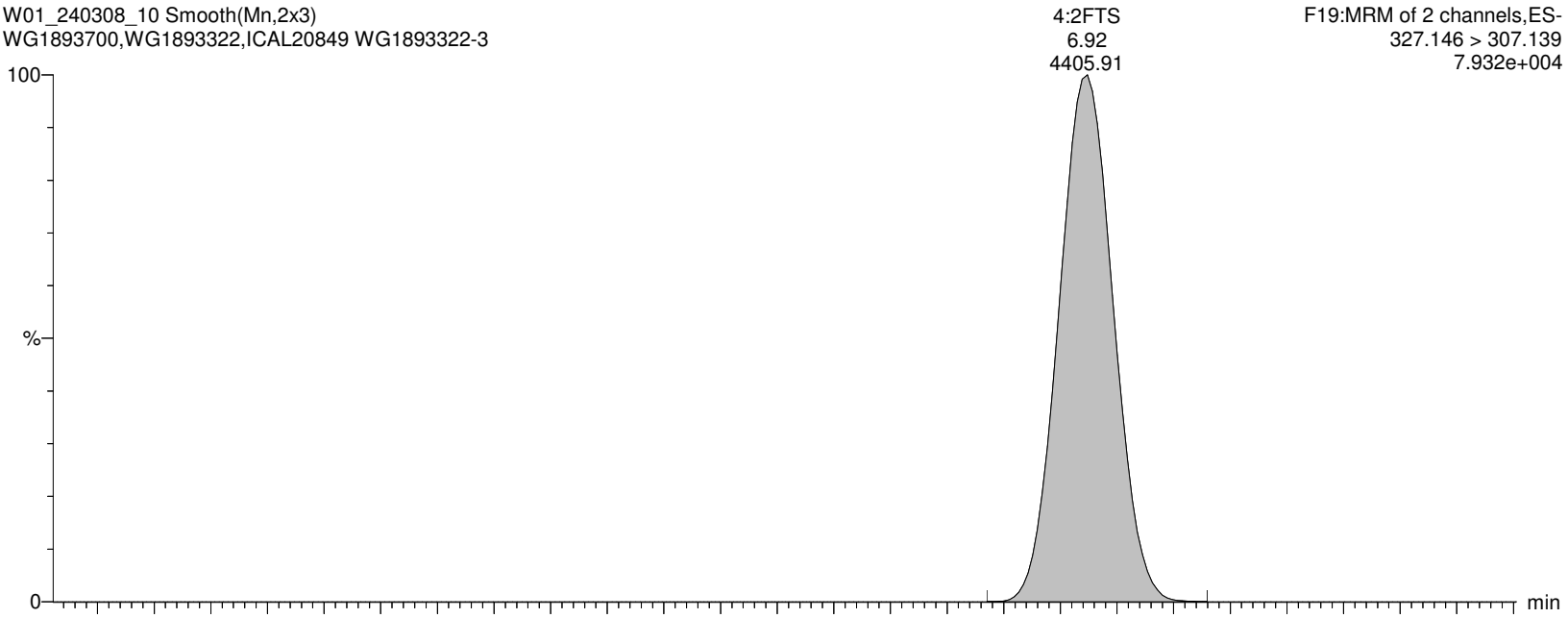

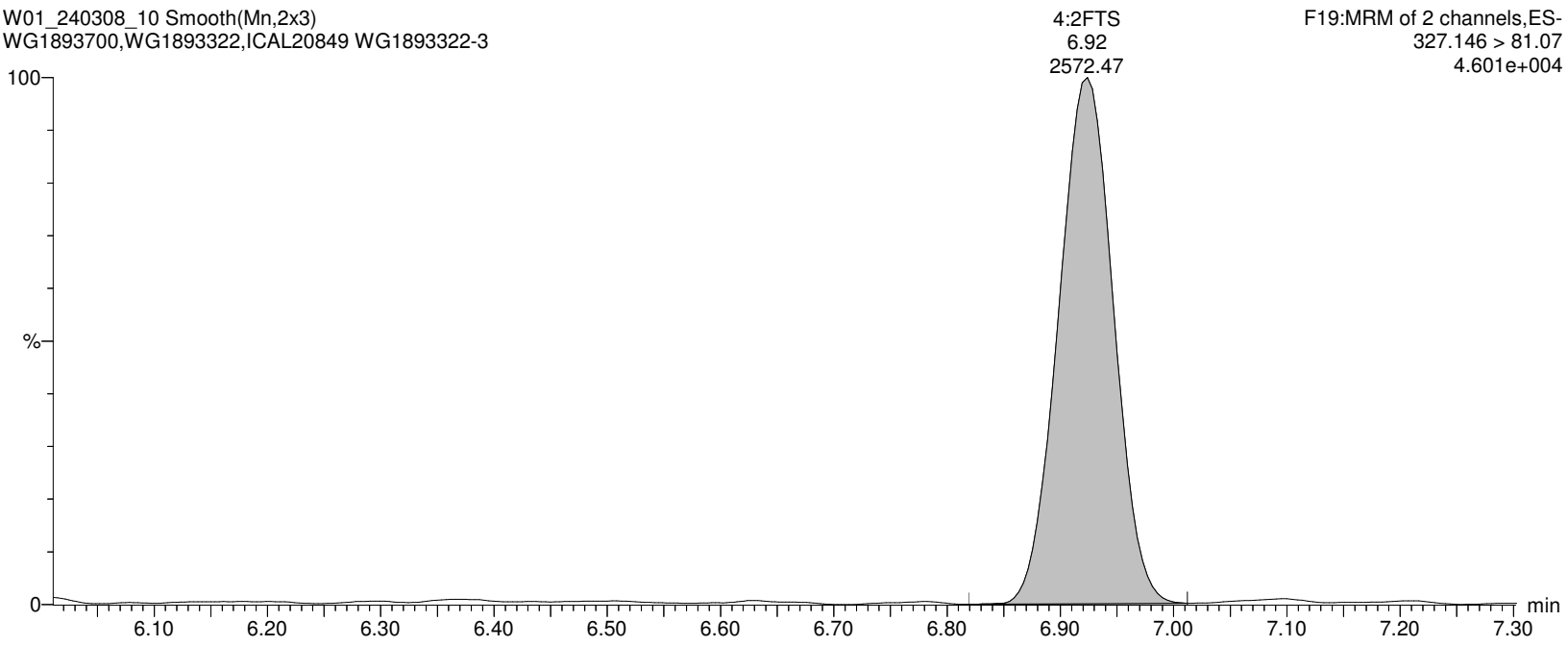

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 08-Mar-2024
Time: 07:32:43
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User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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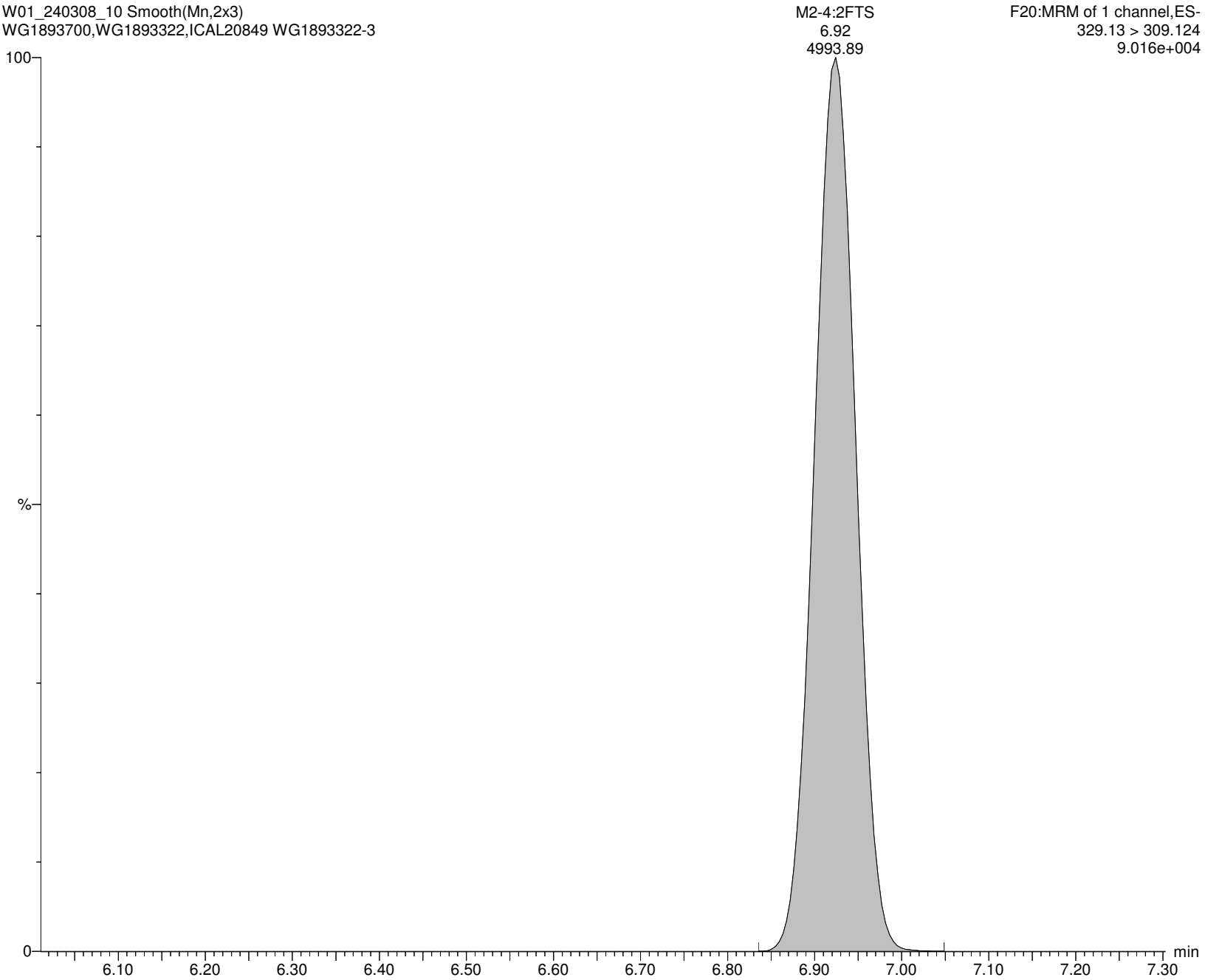

all concentration units in (ng/mL)

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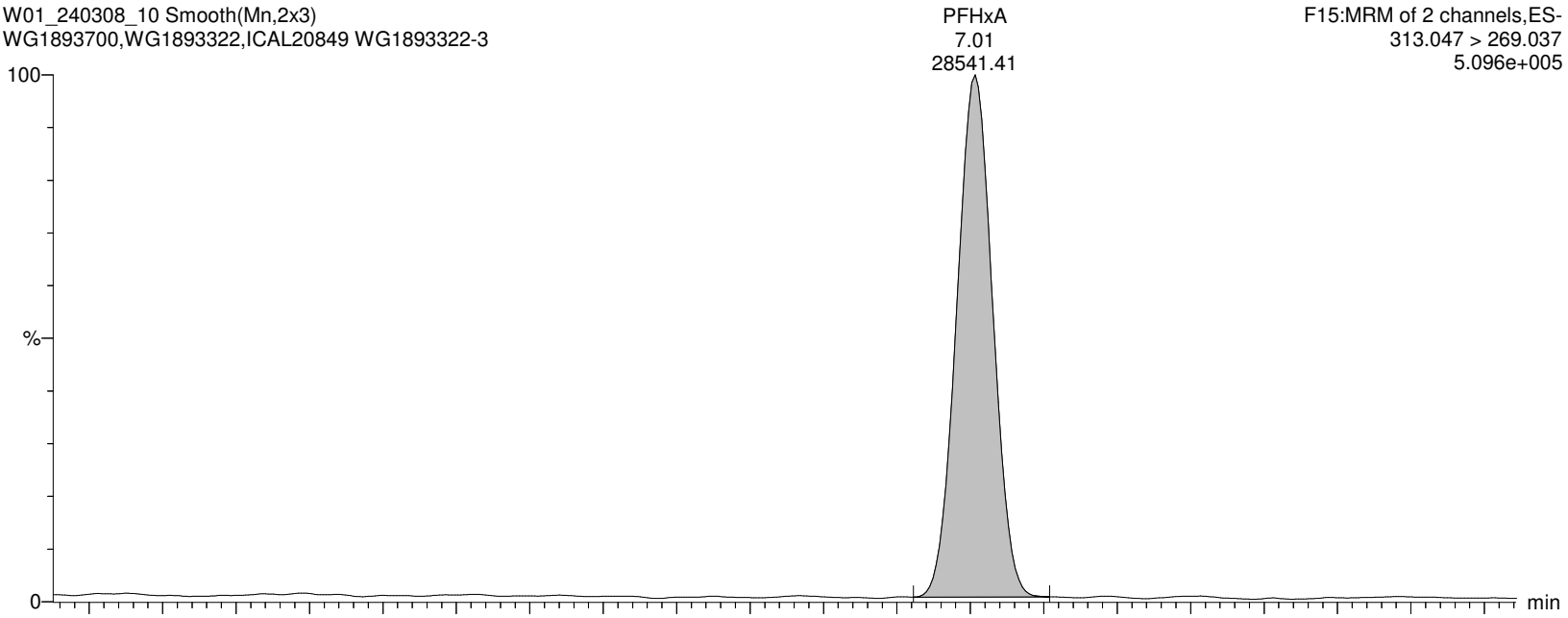

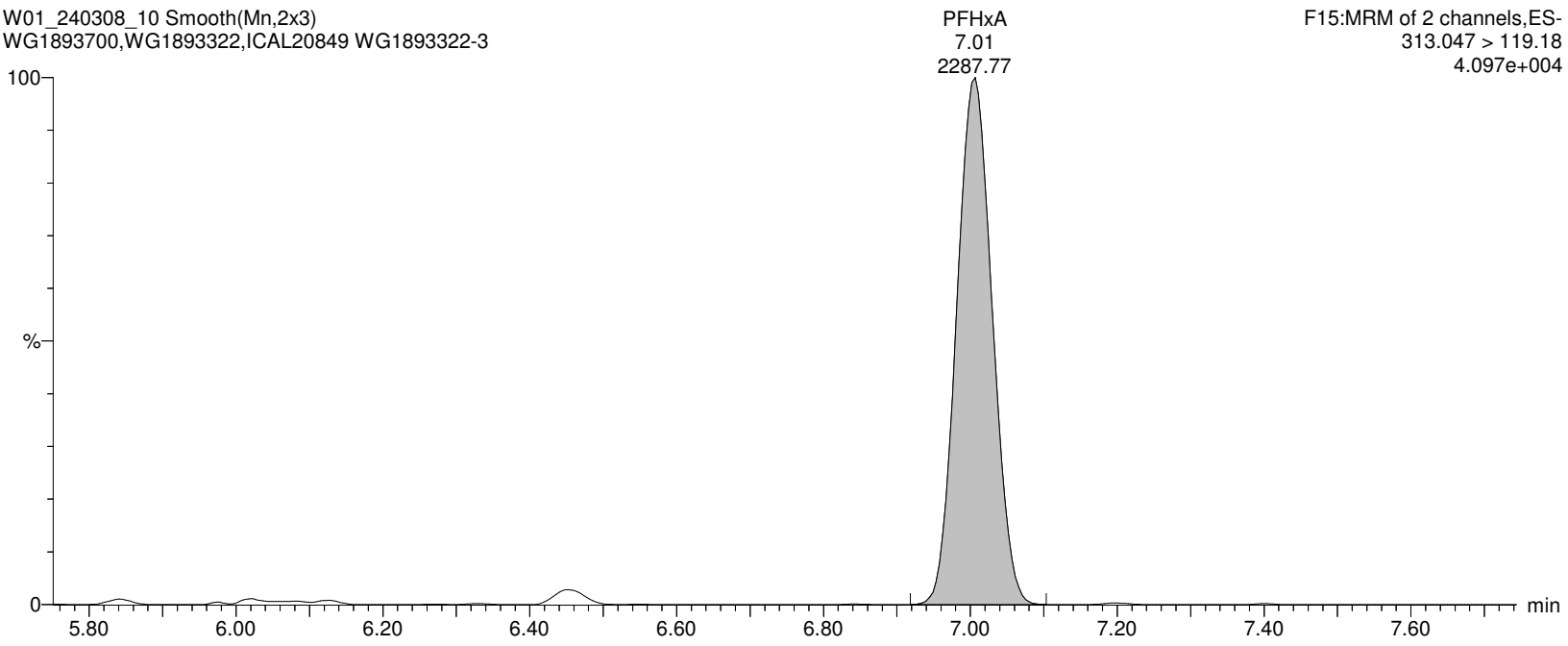

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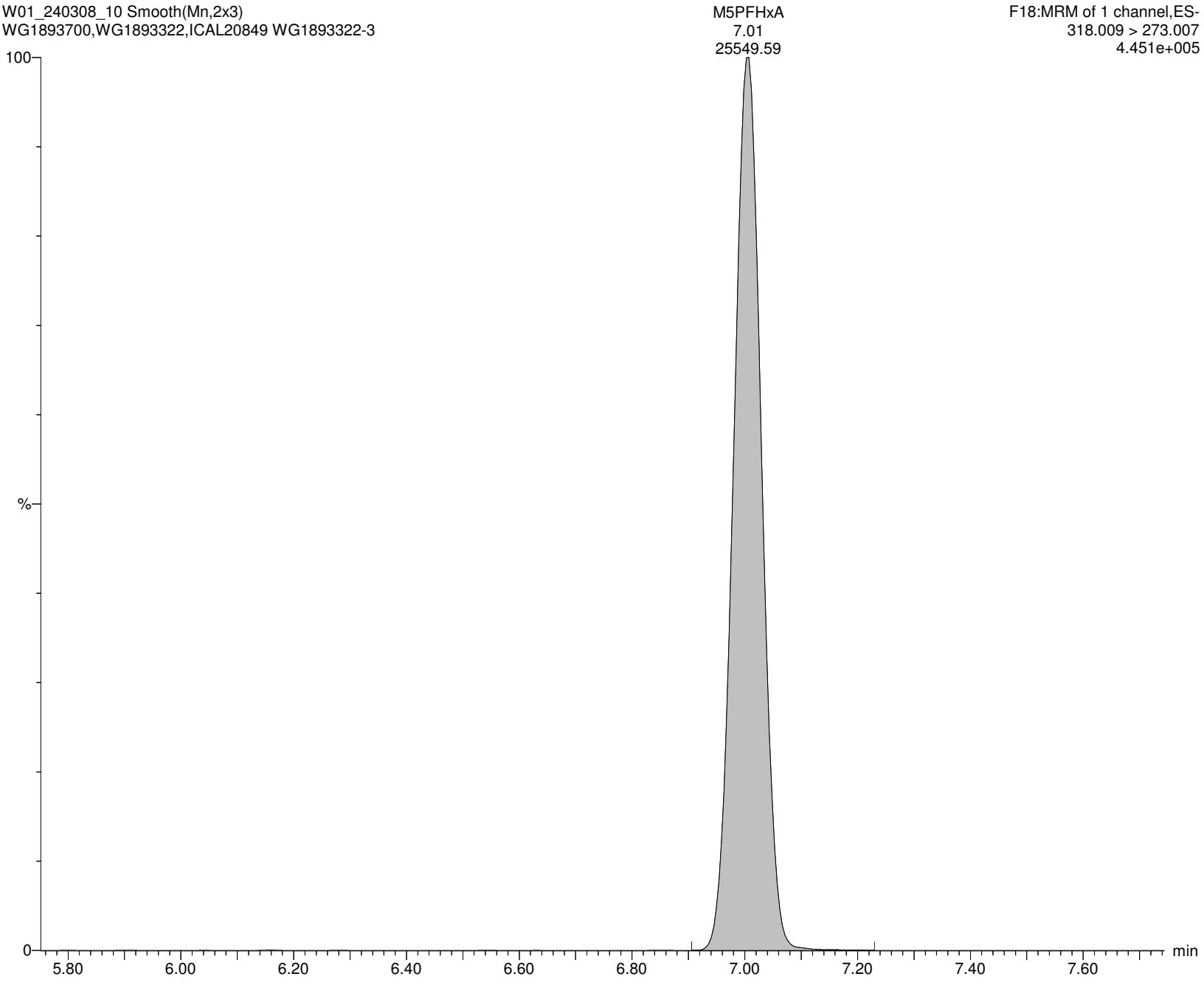

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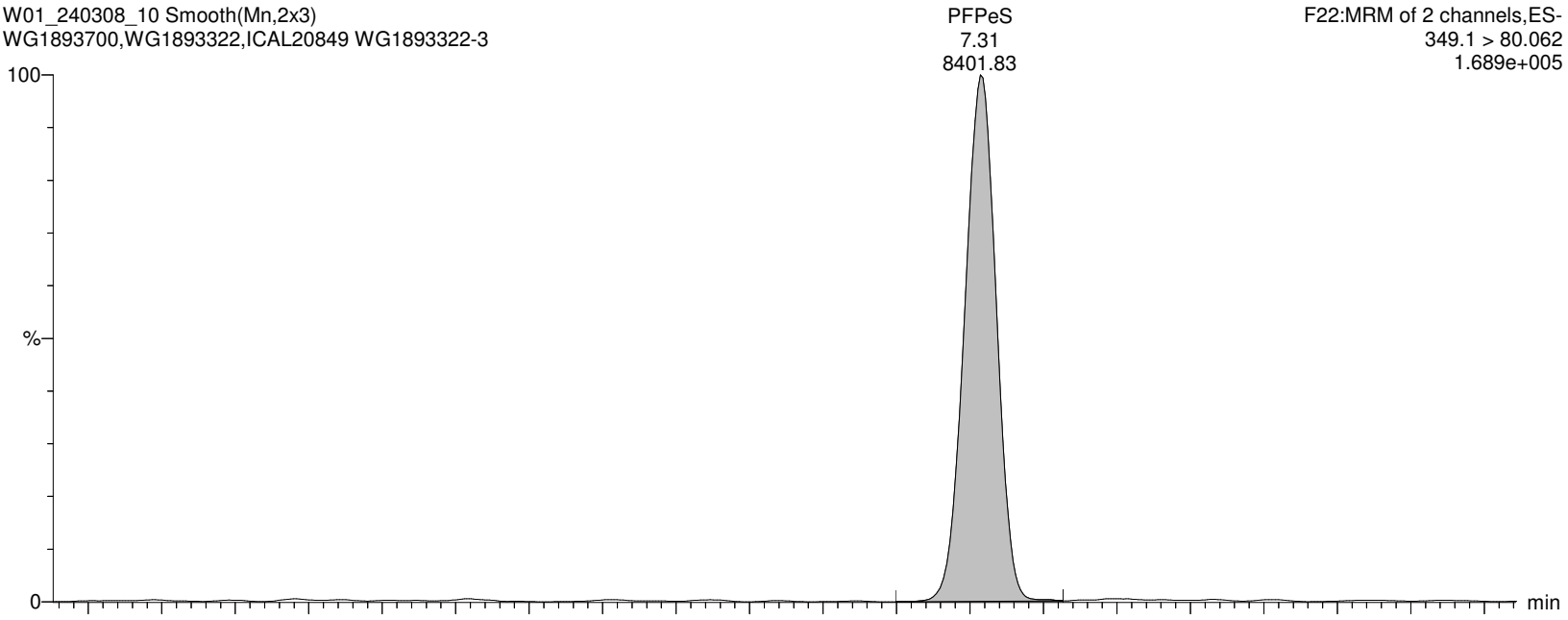

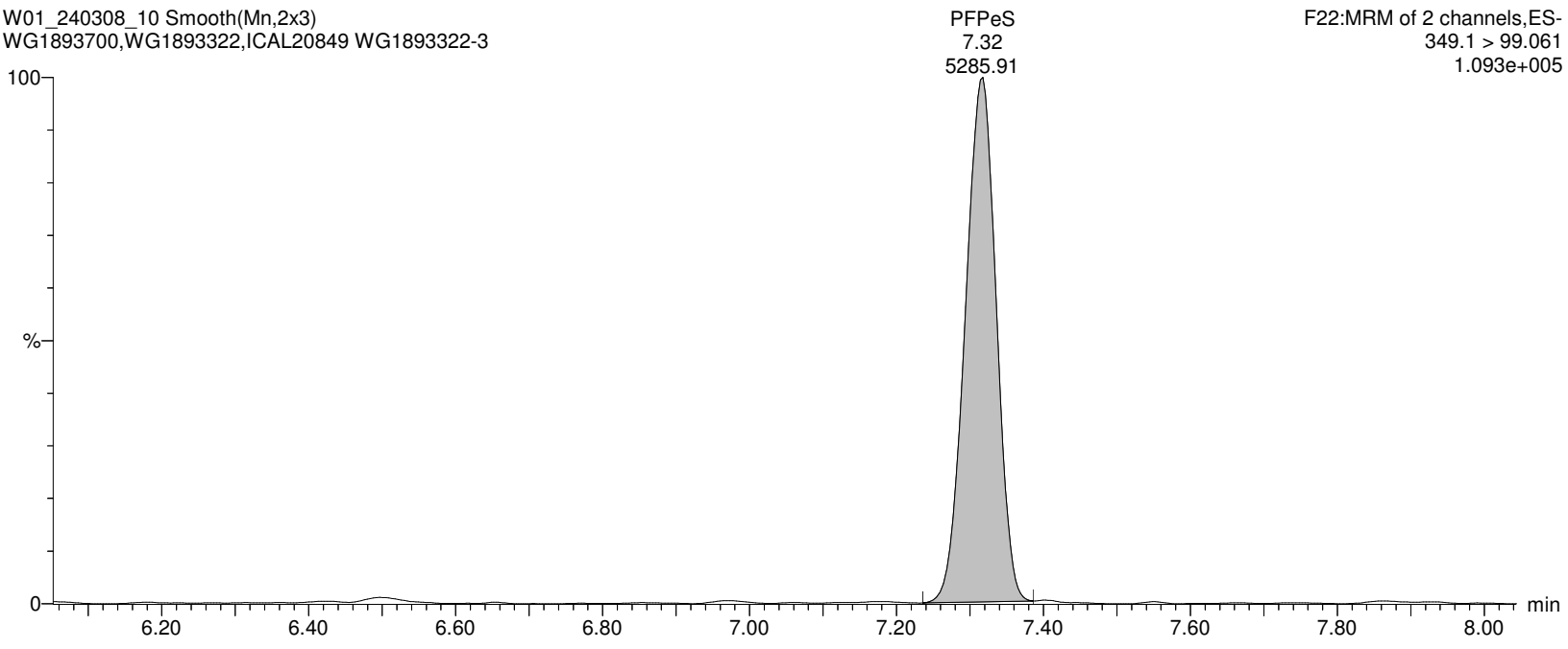

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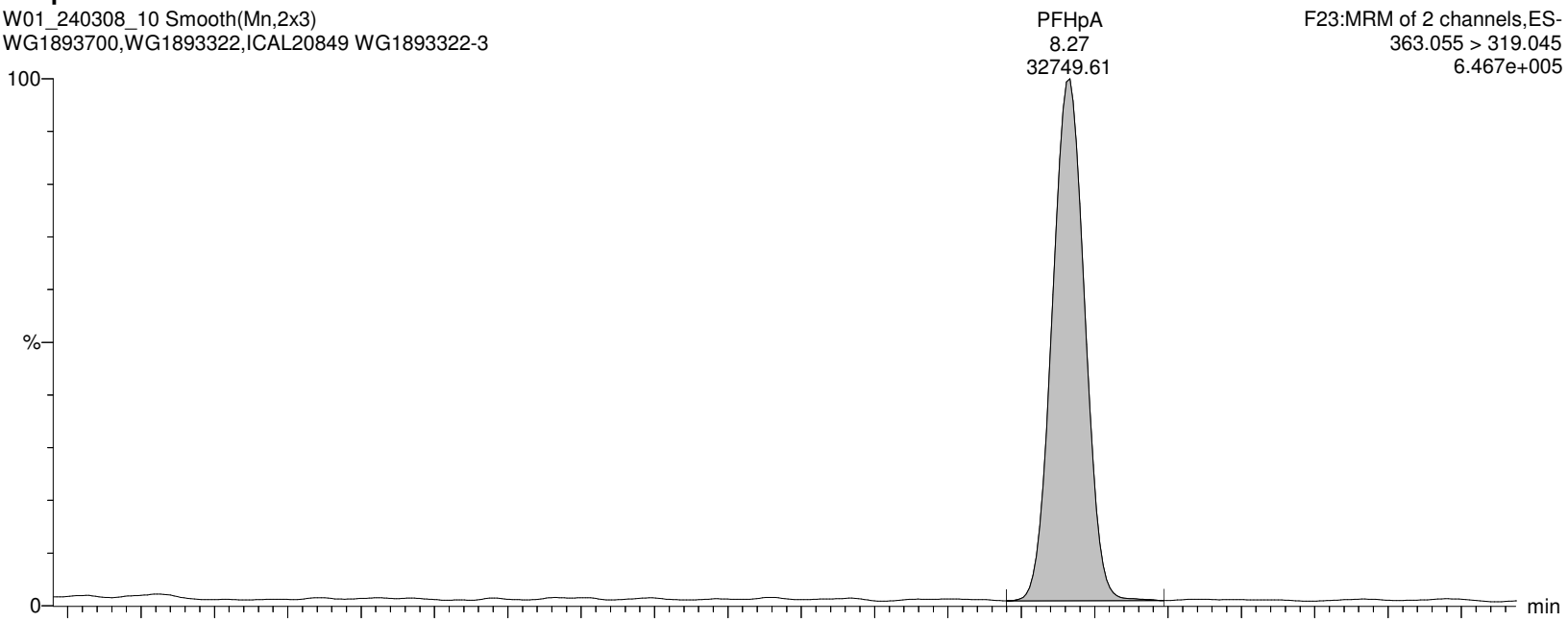

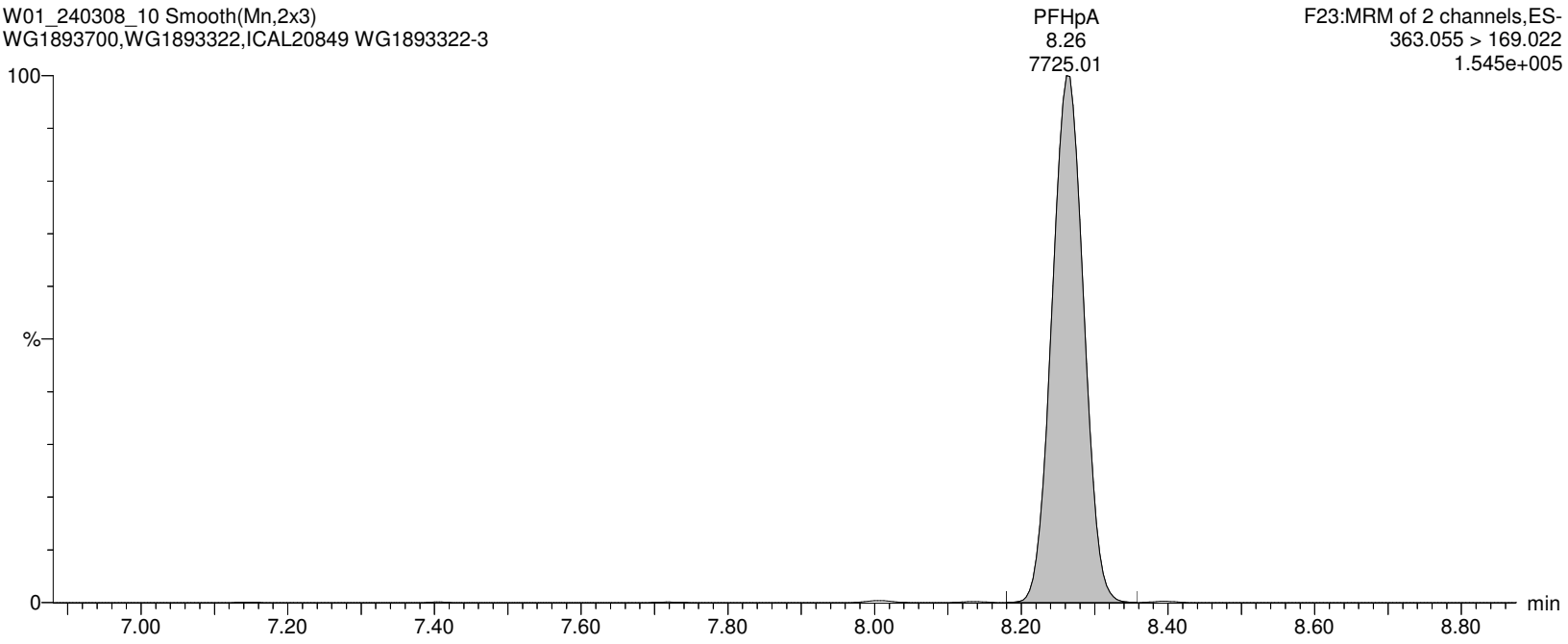

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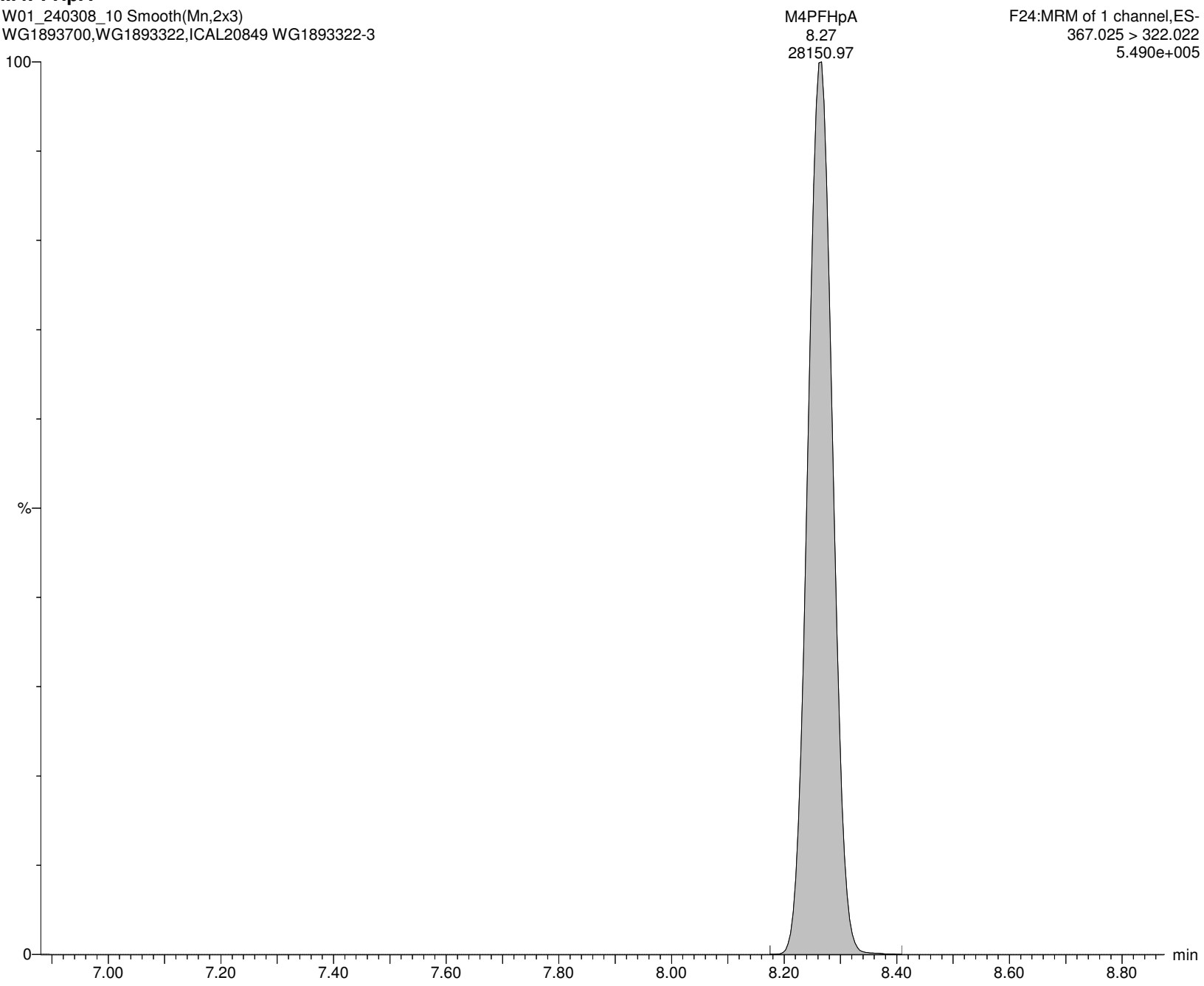

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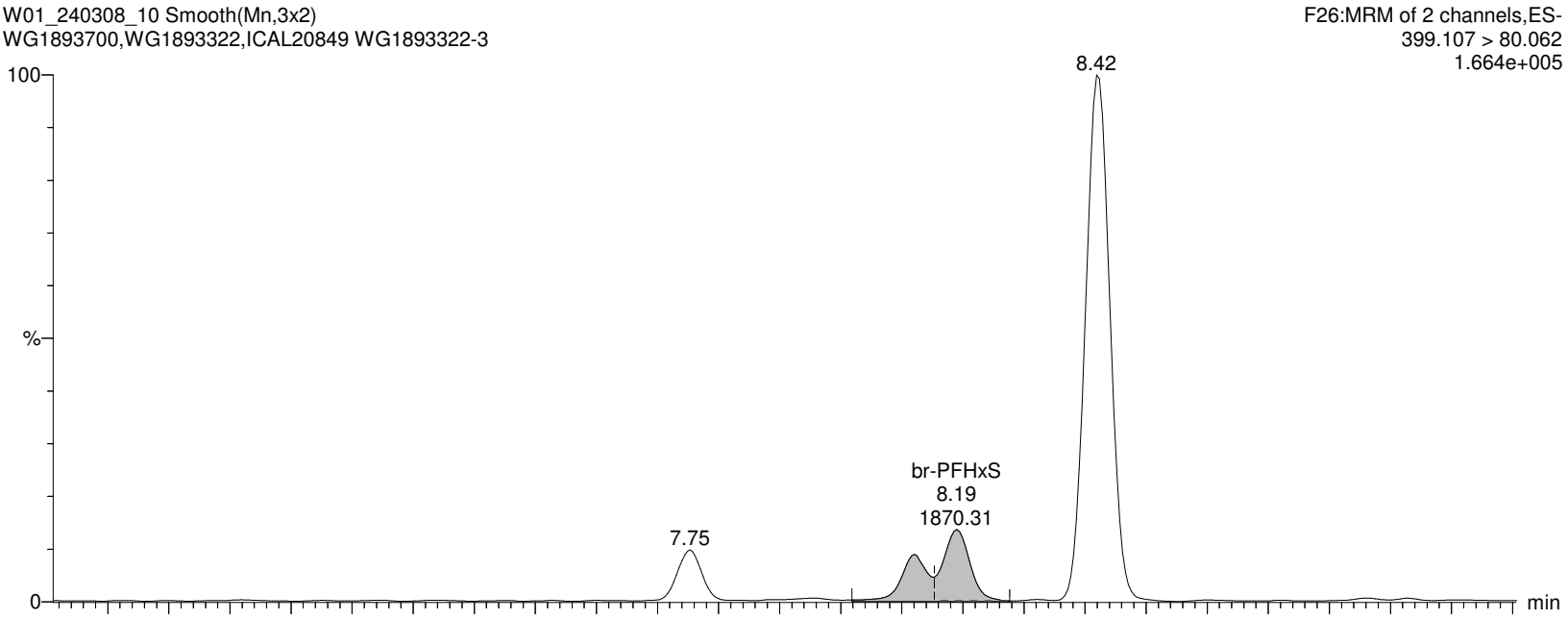

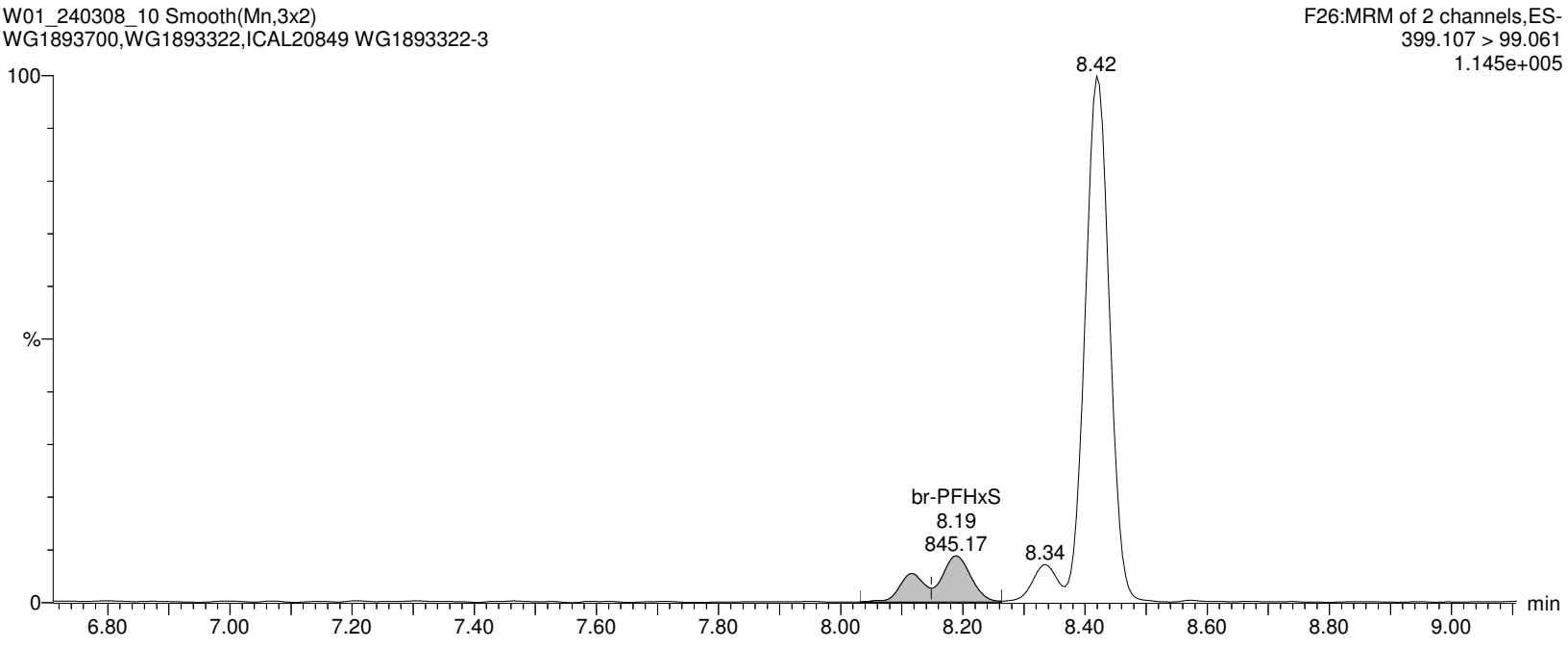

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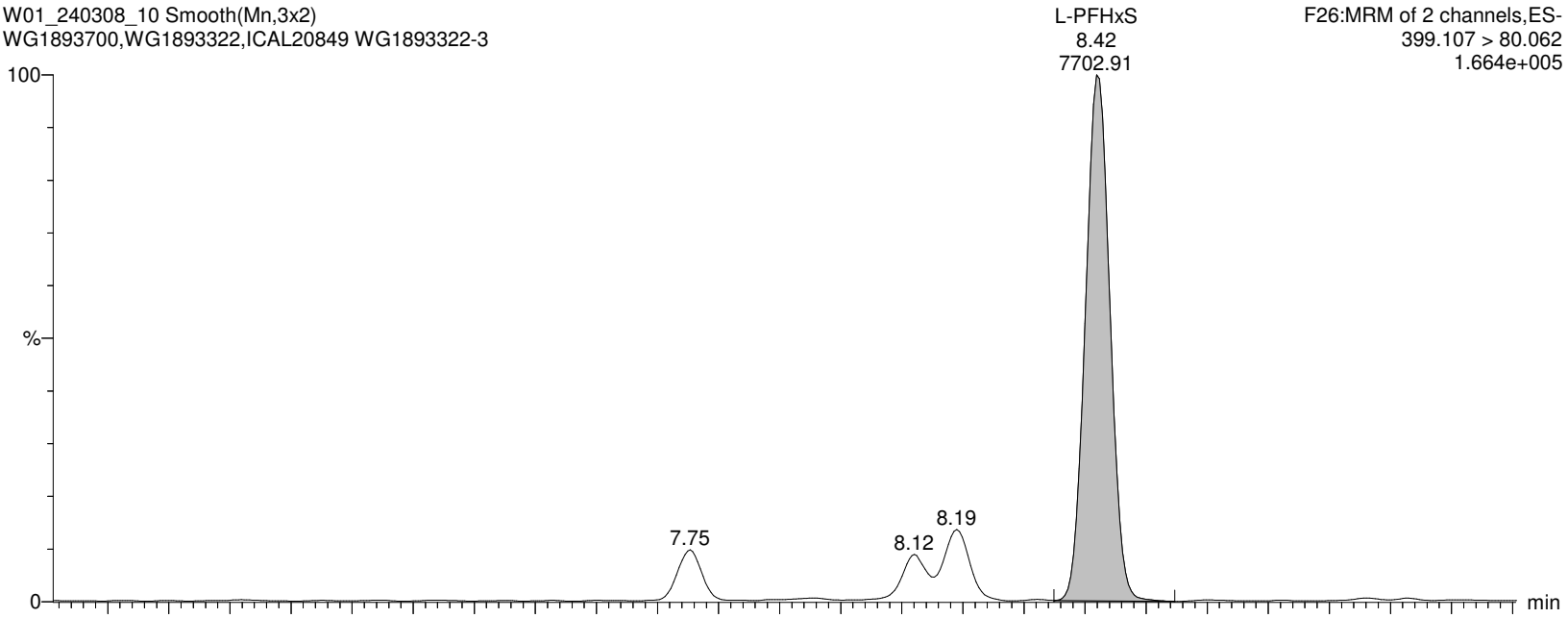

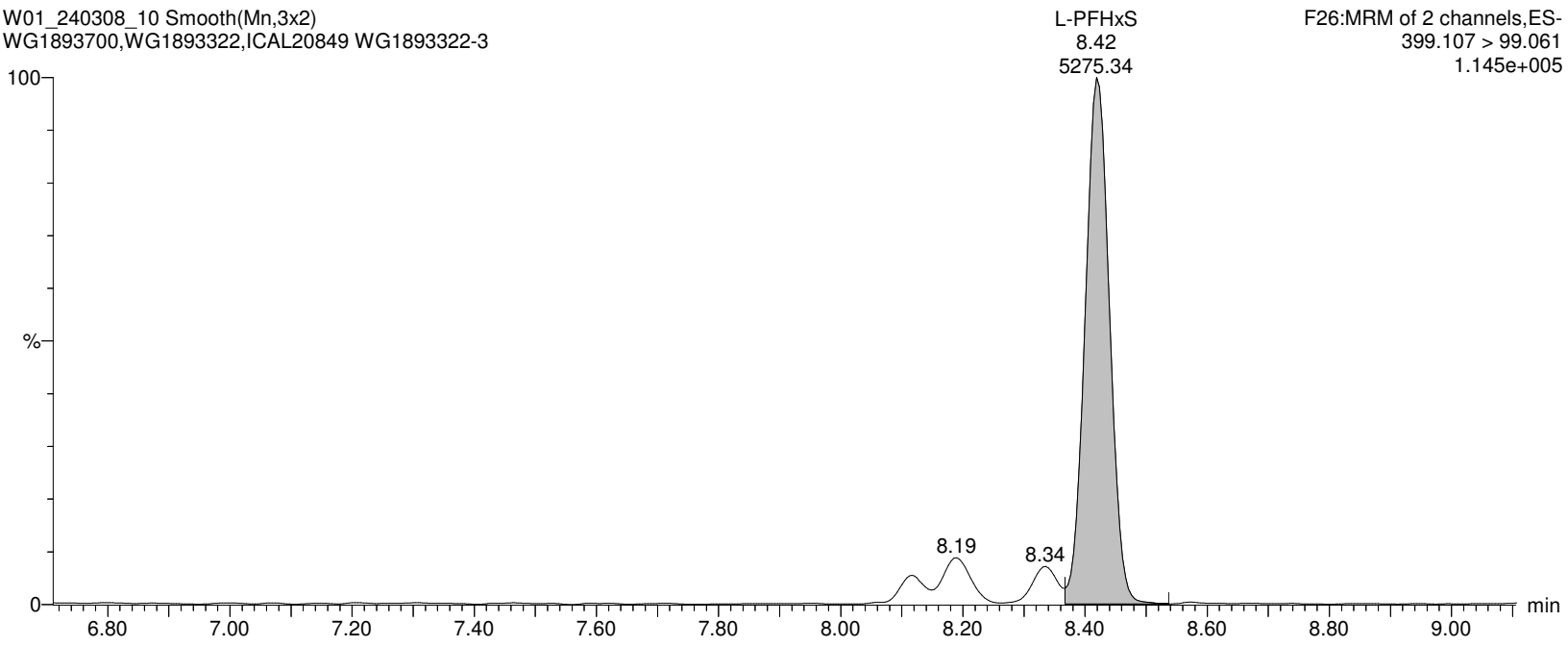

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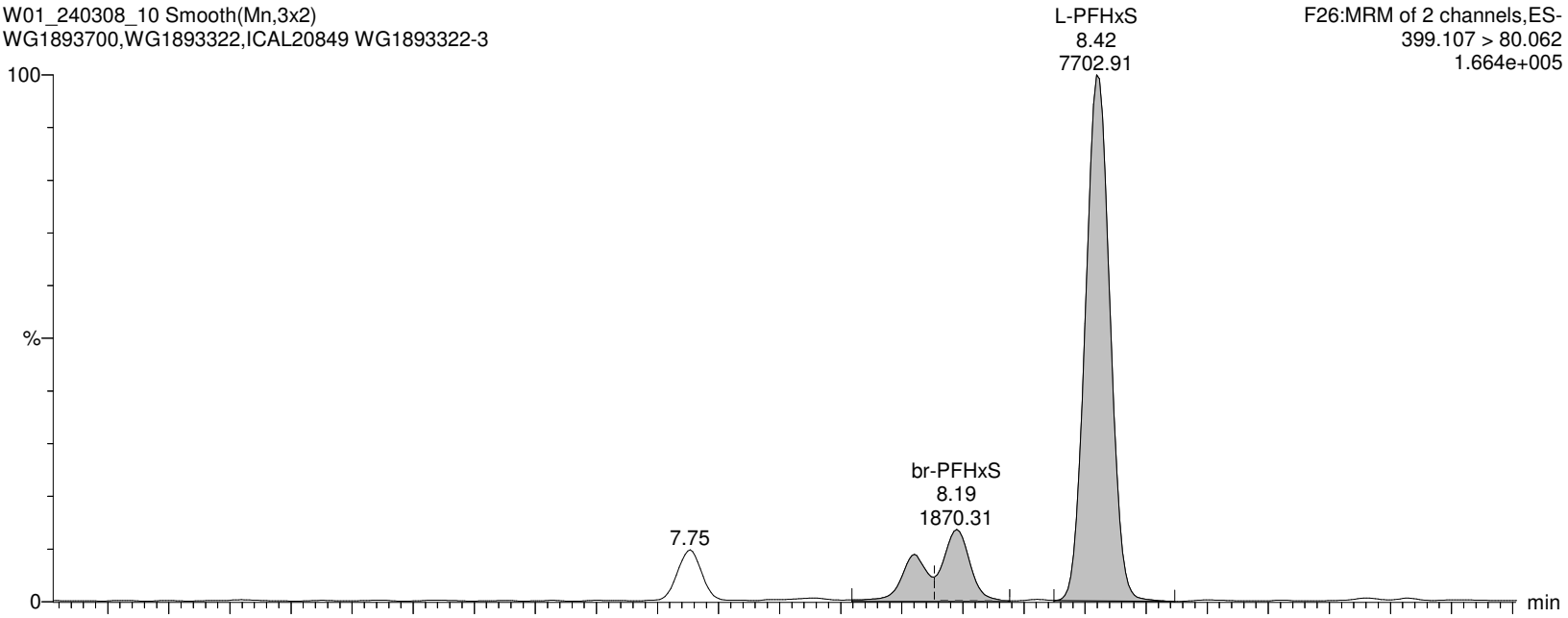

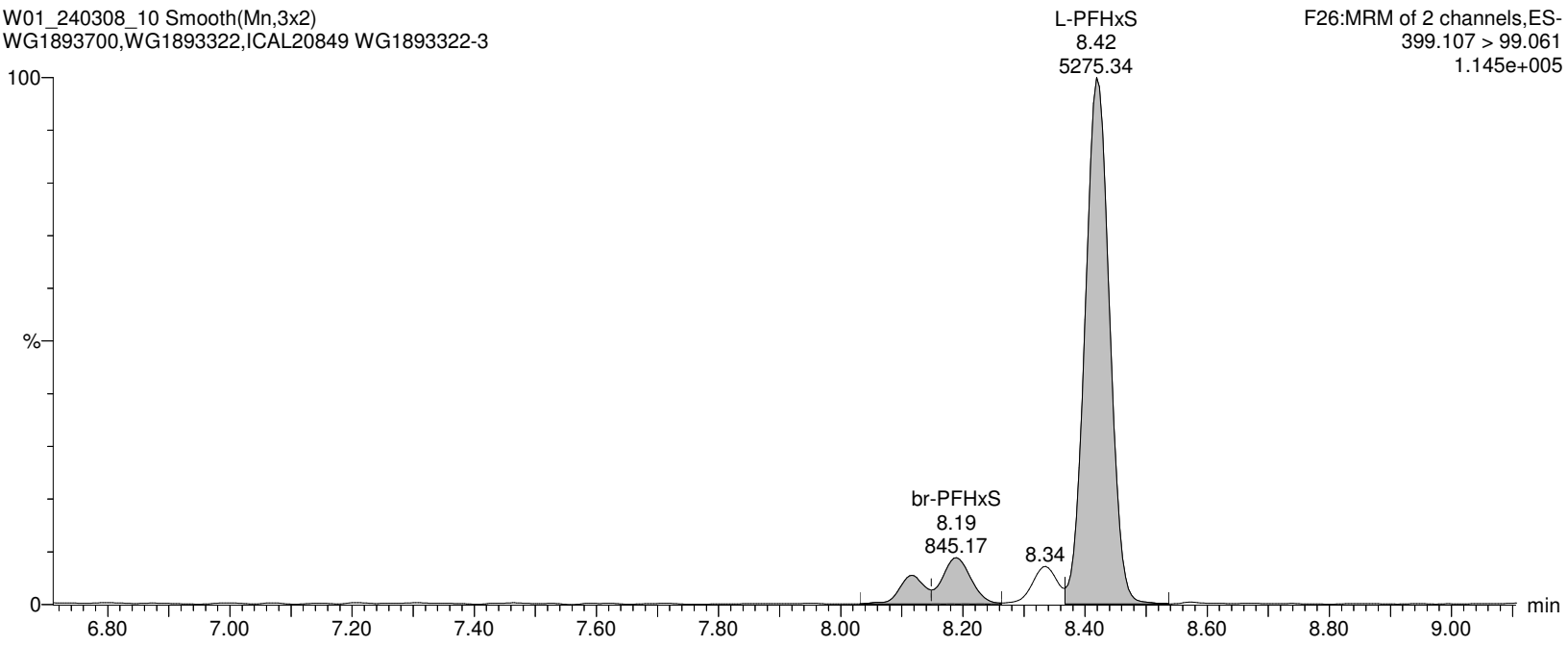

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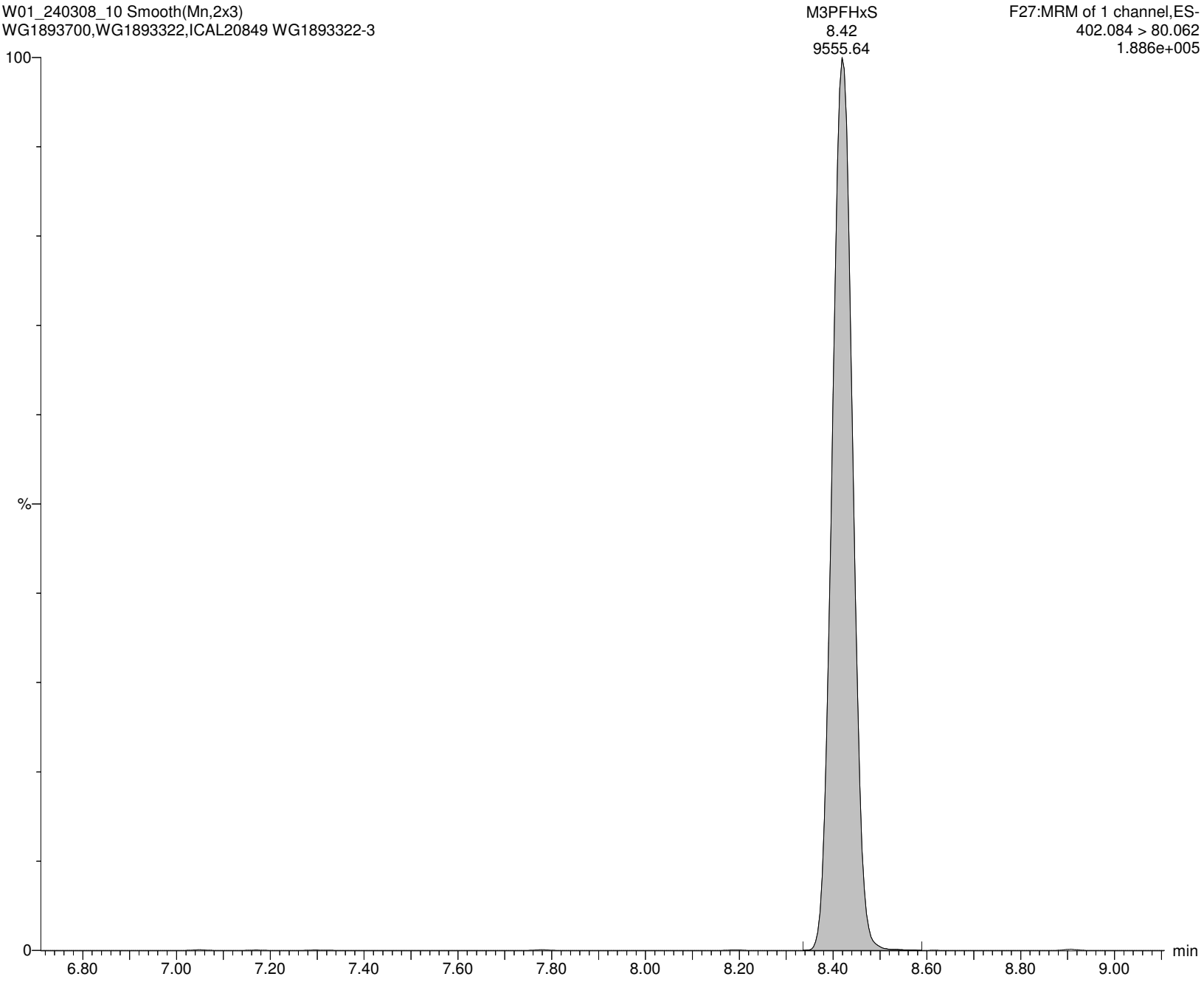

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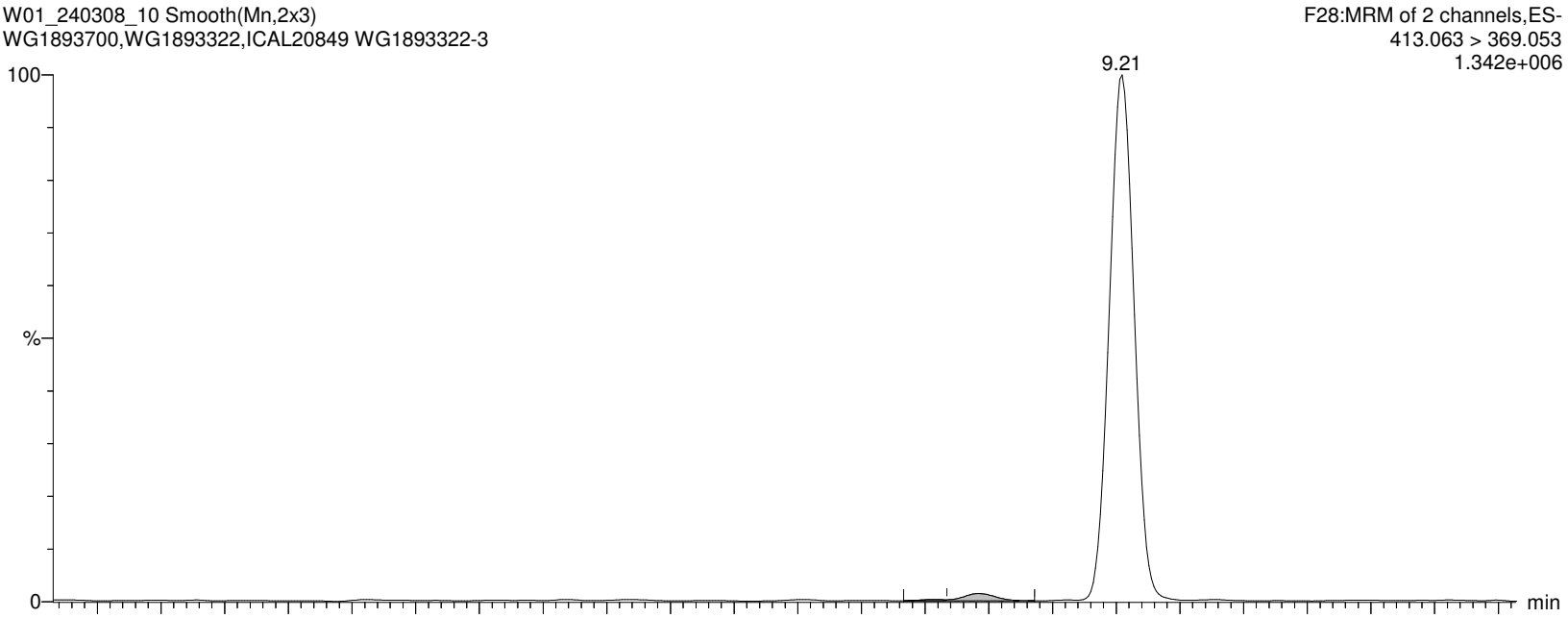

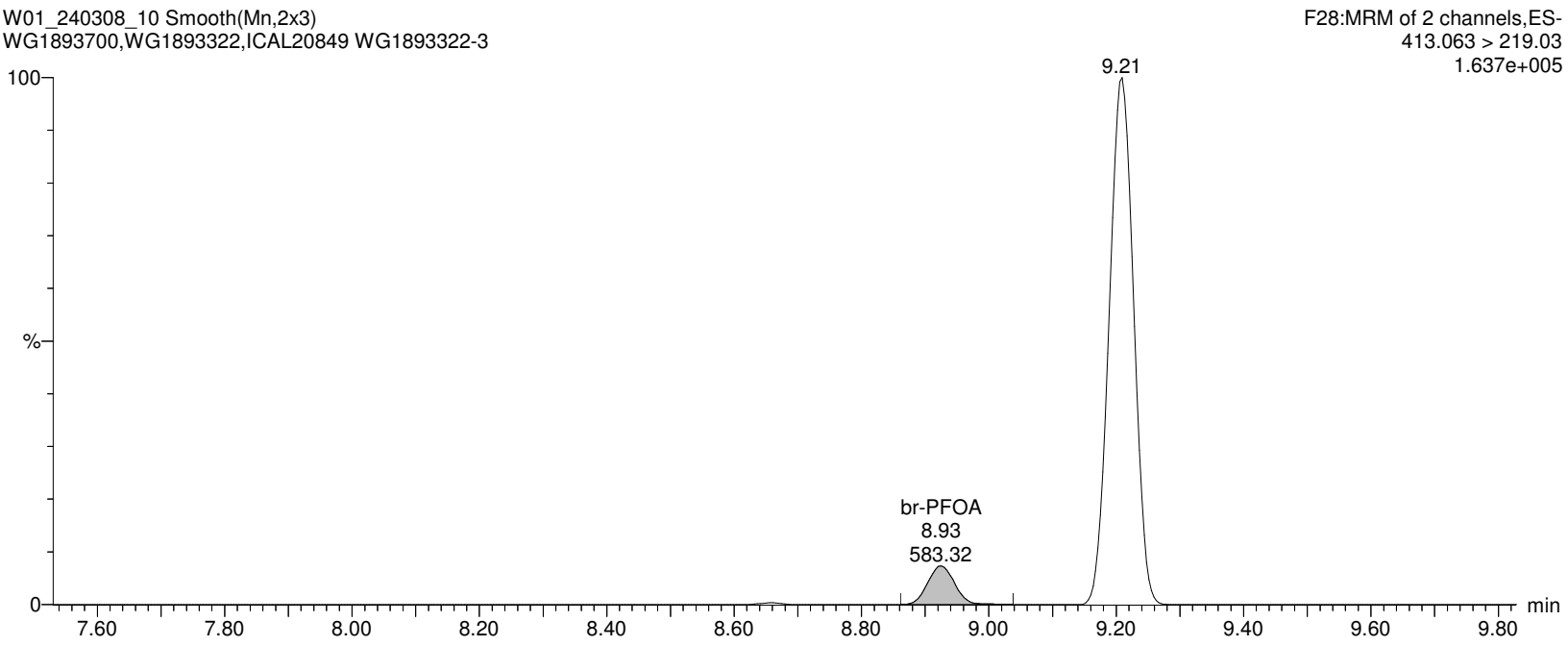

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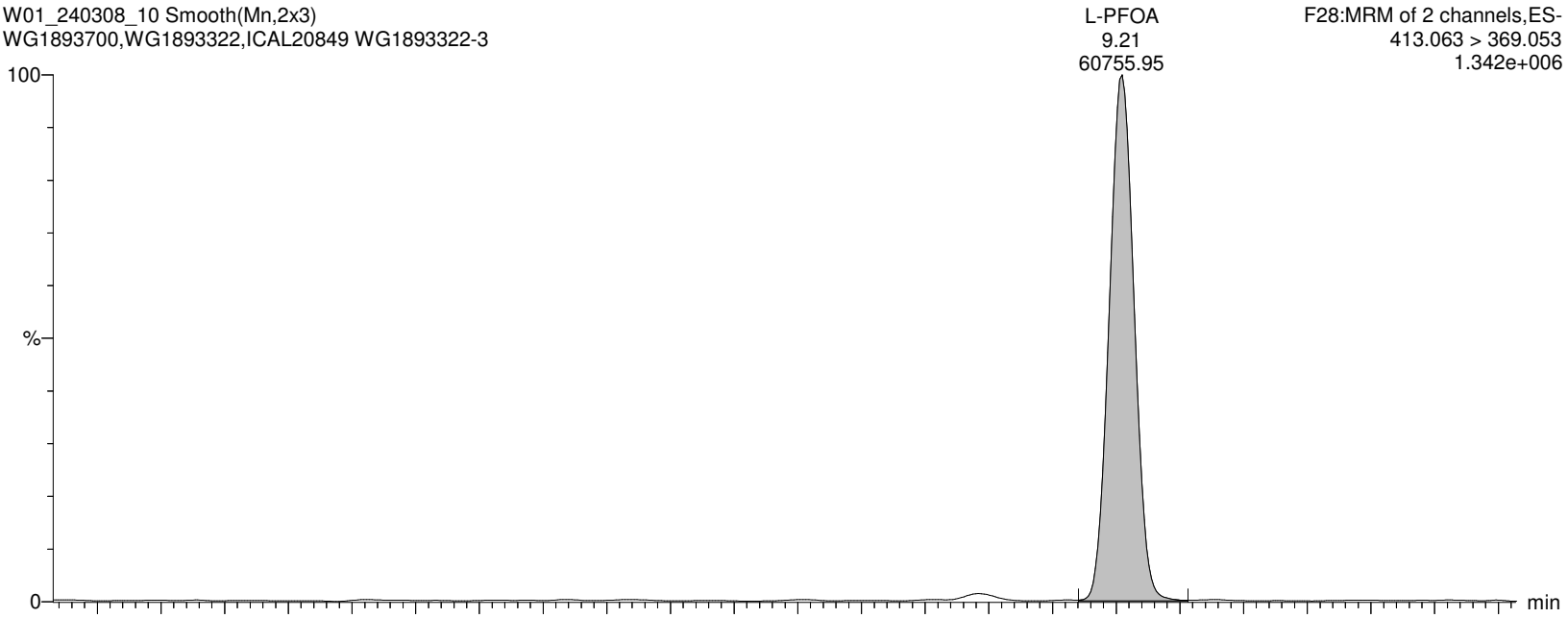

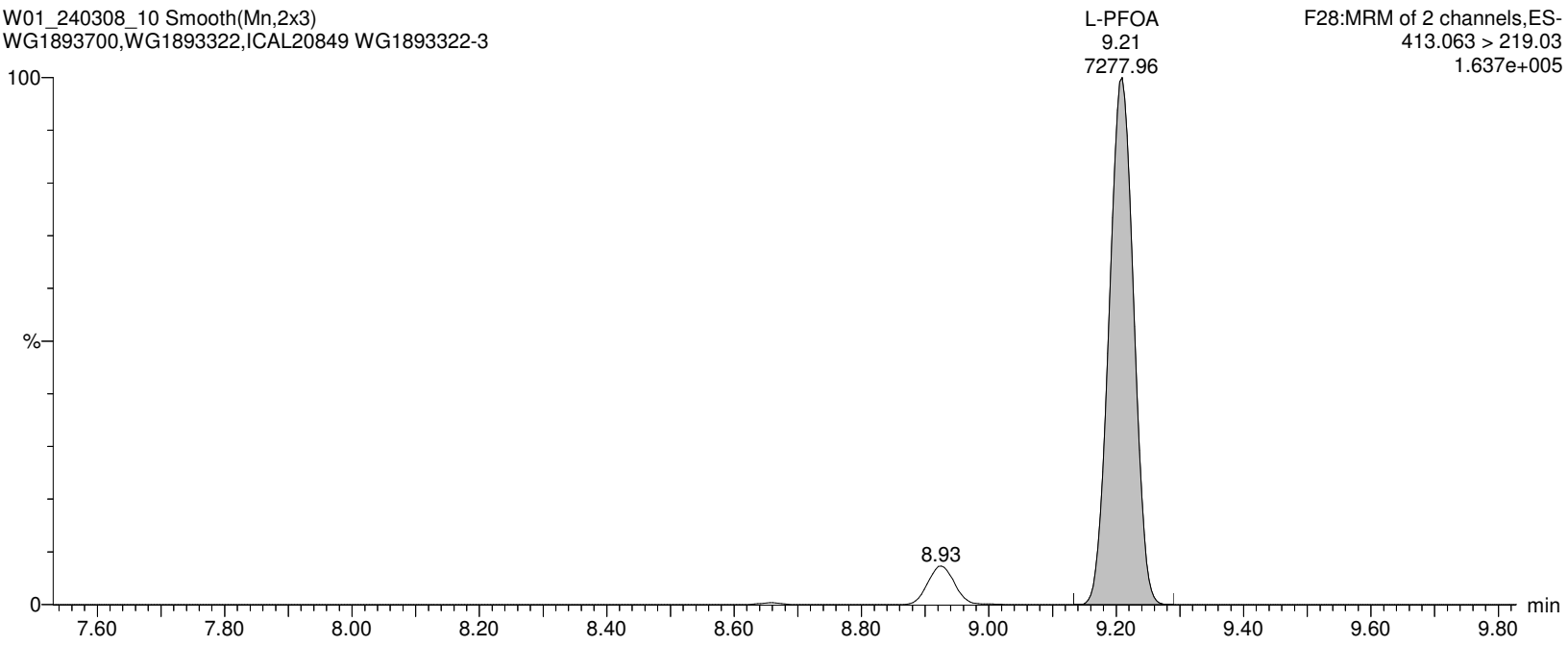

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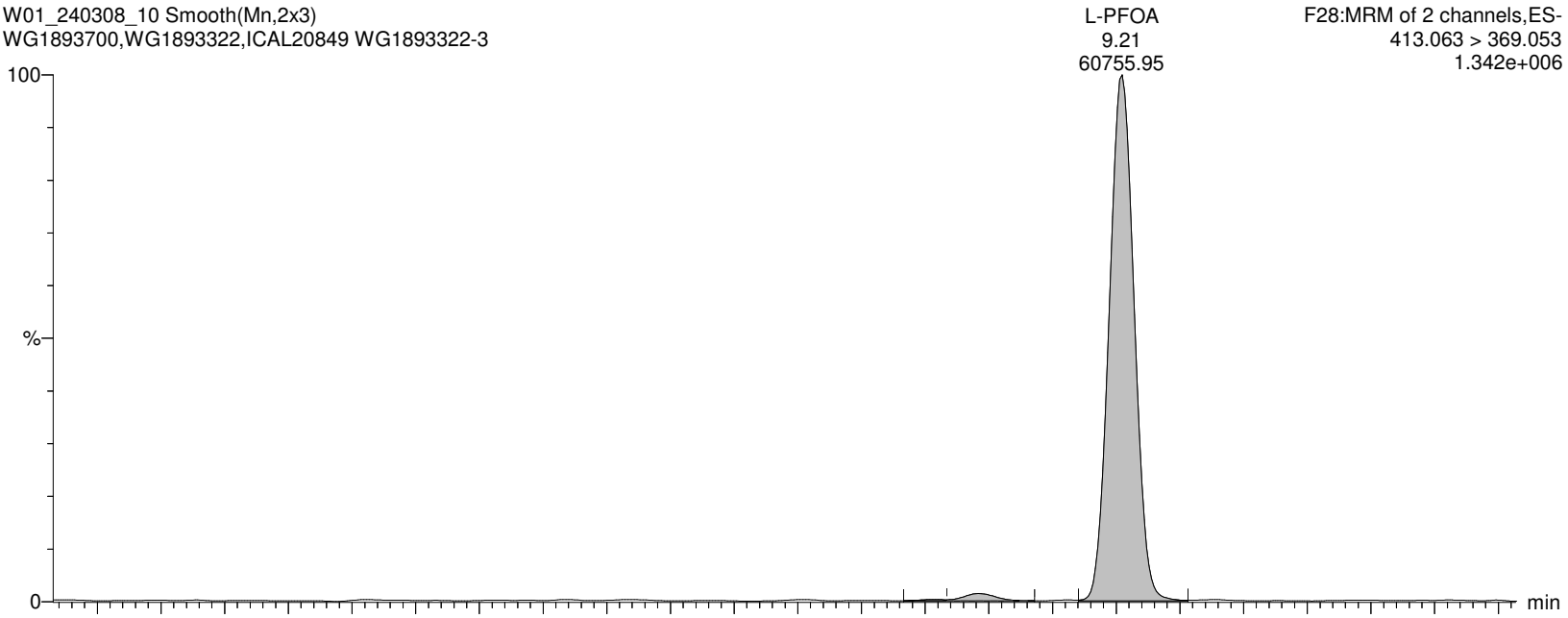

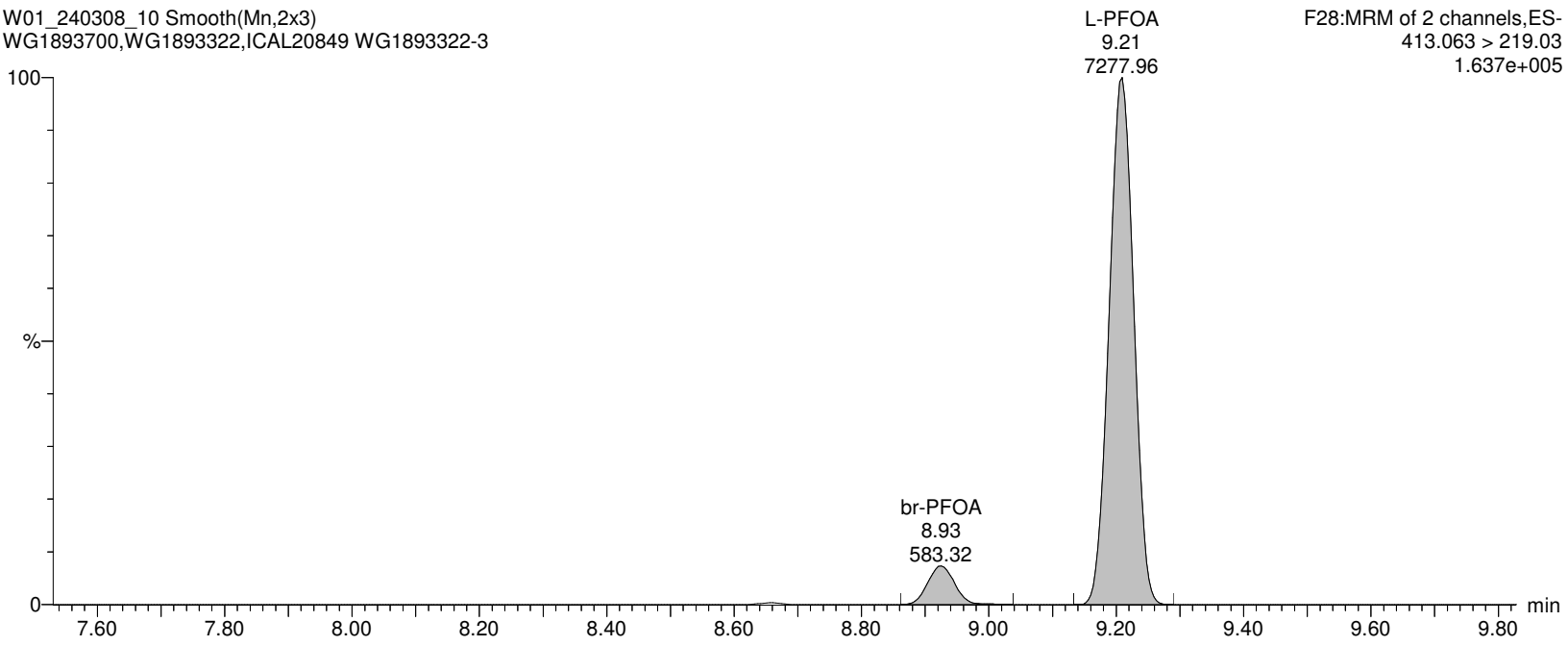

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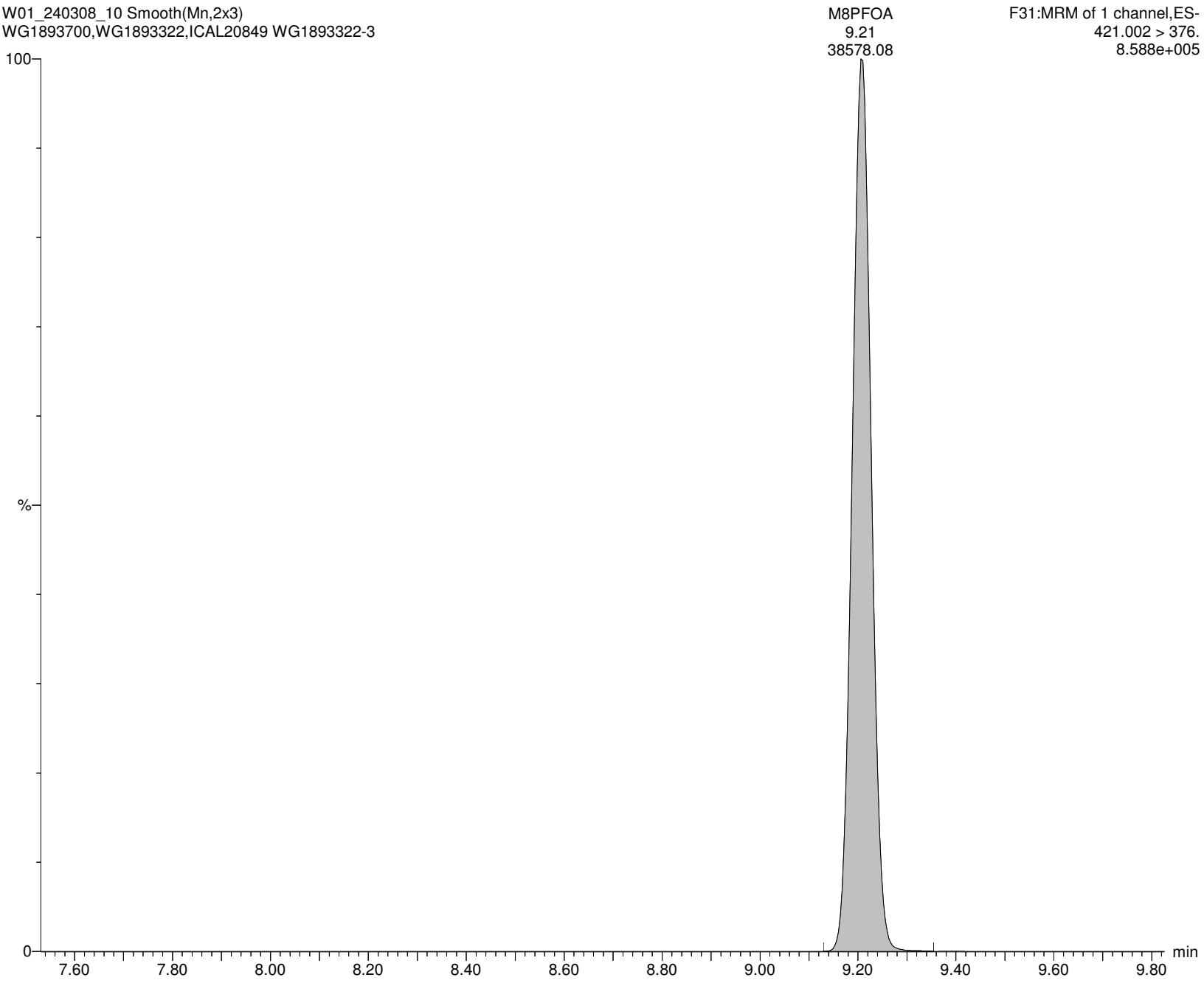

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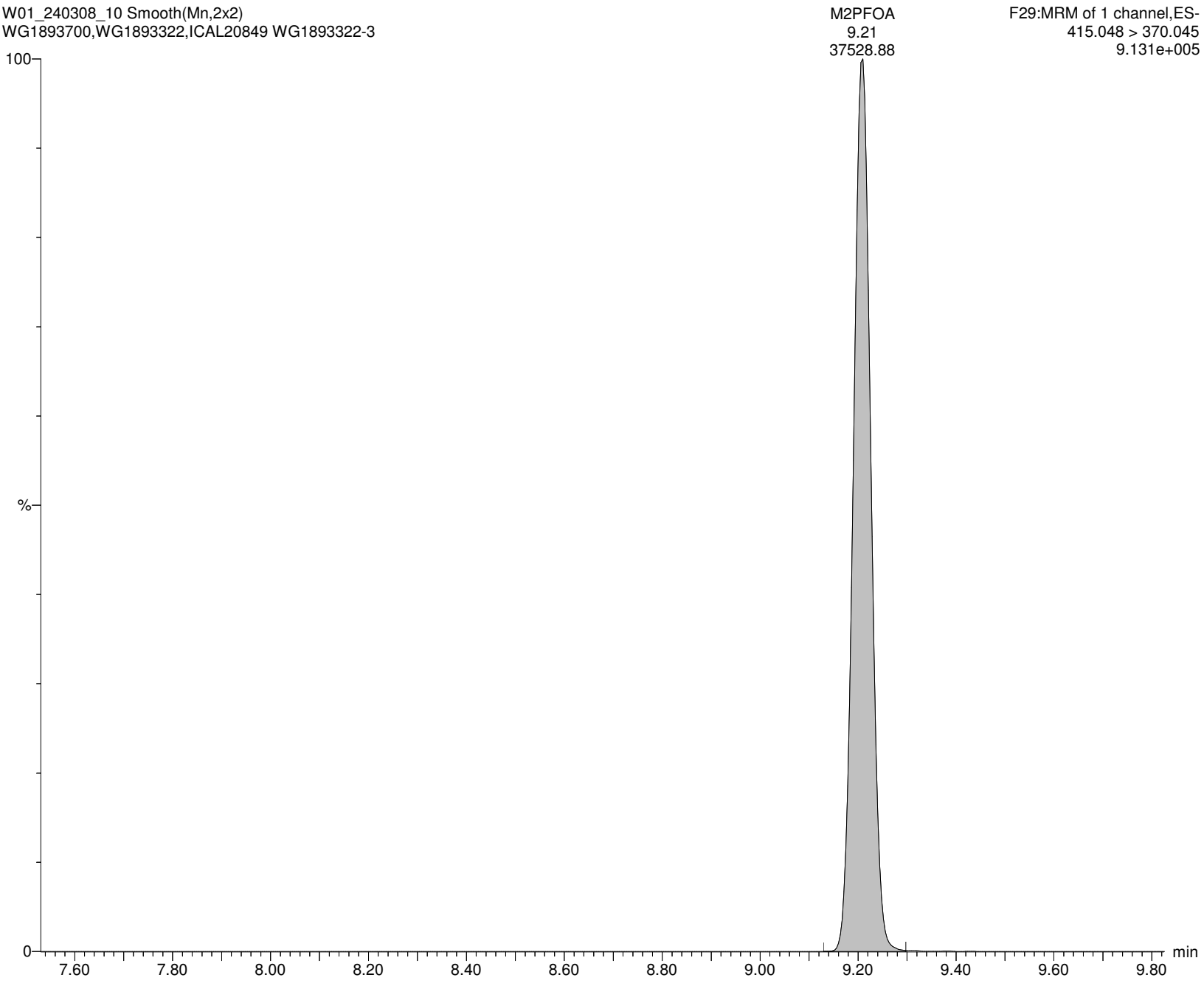

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

Name: W01_240308_10
ID: WG1893322-3
Date: 08-Mar-2024
Time: 07:32:43
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User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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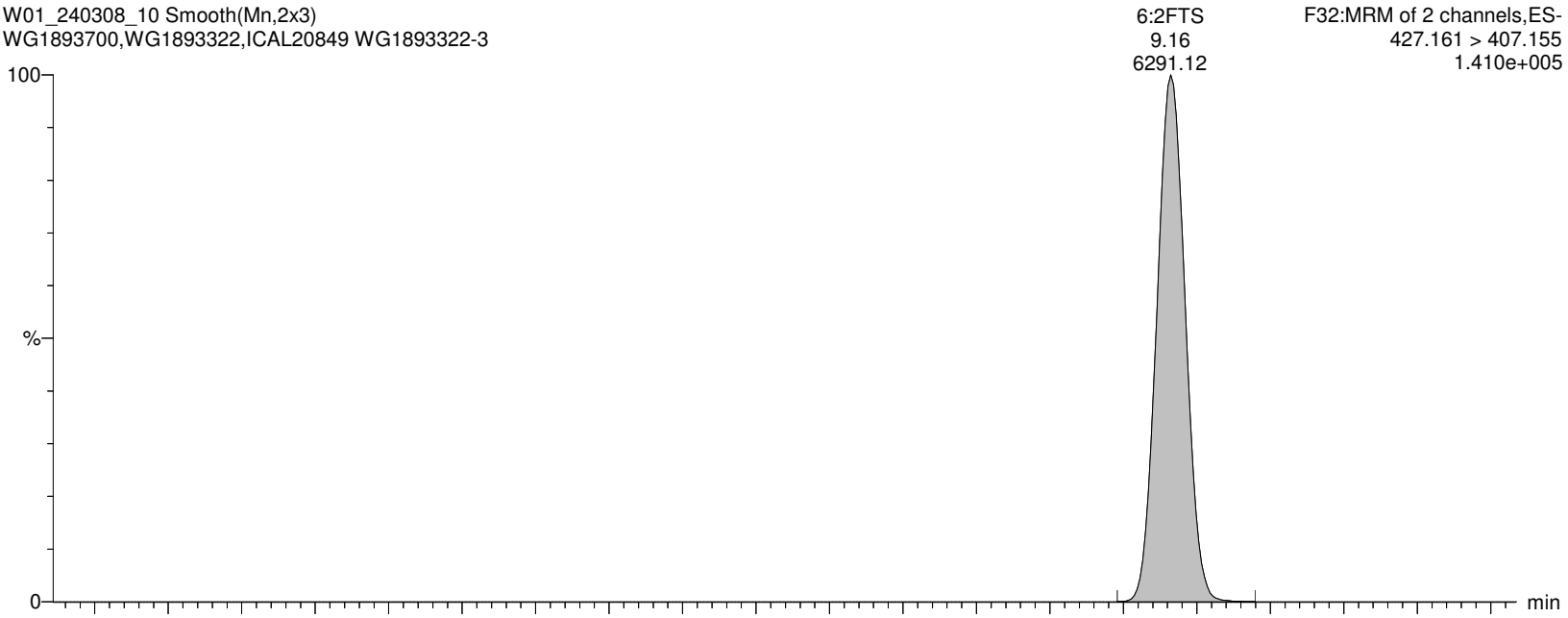

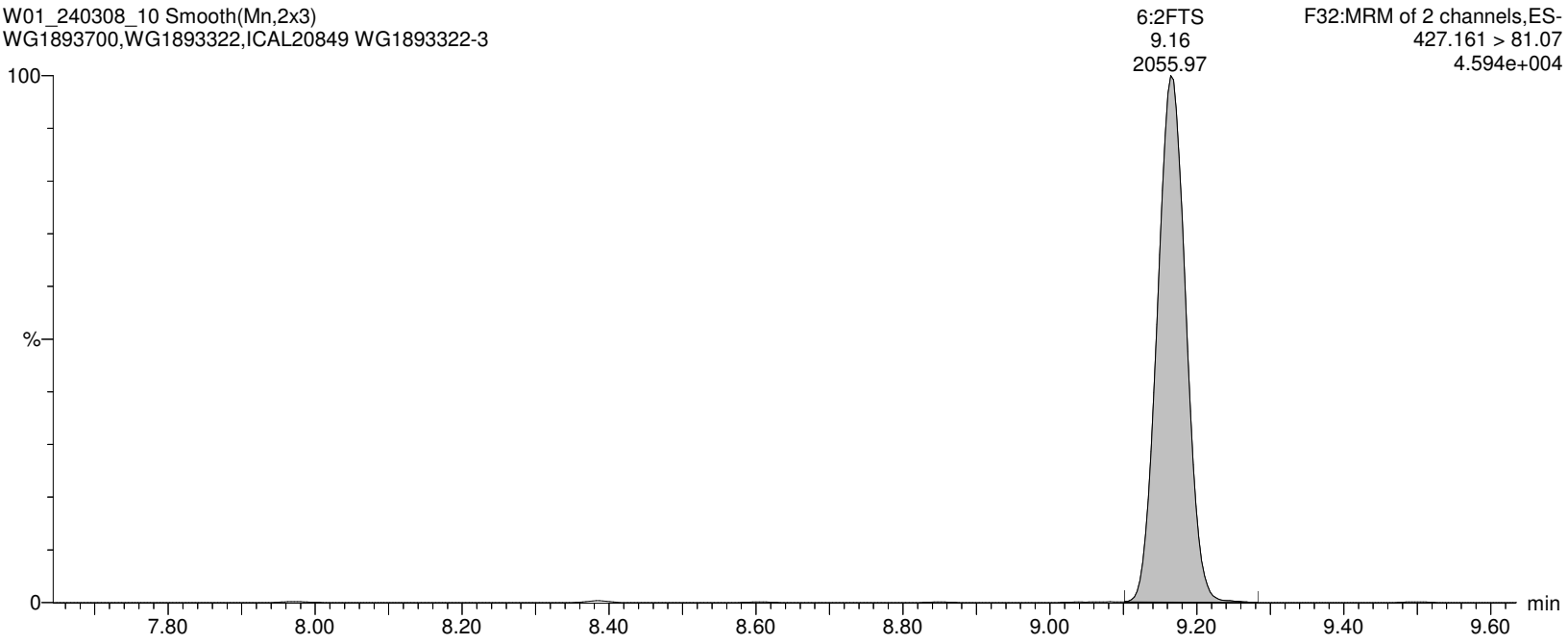

all concentration units in (ng/mL)

Alpha Analytical Inc.
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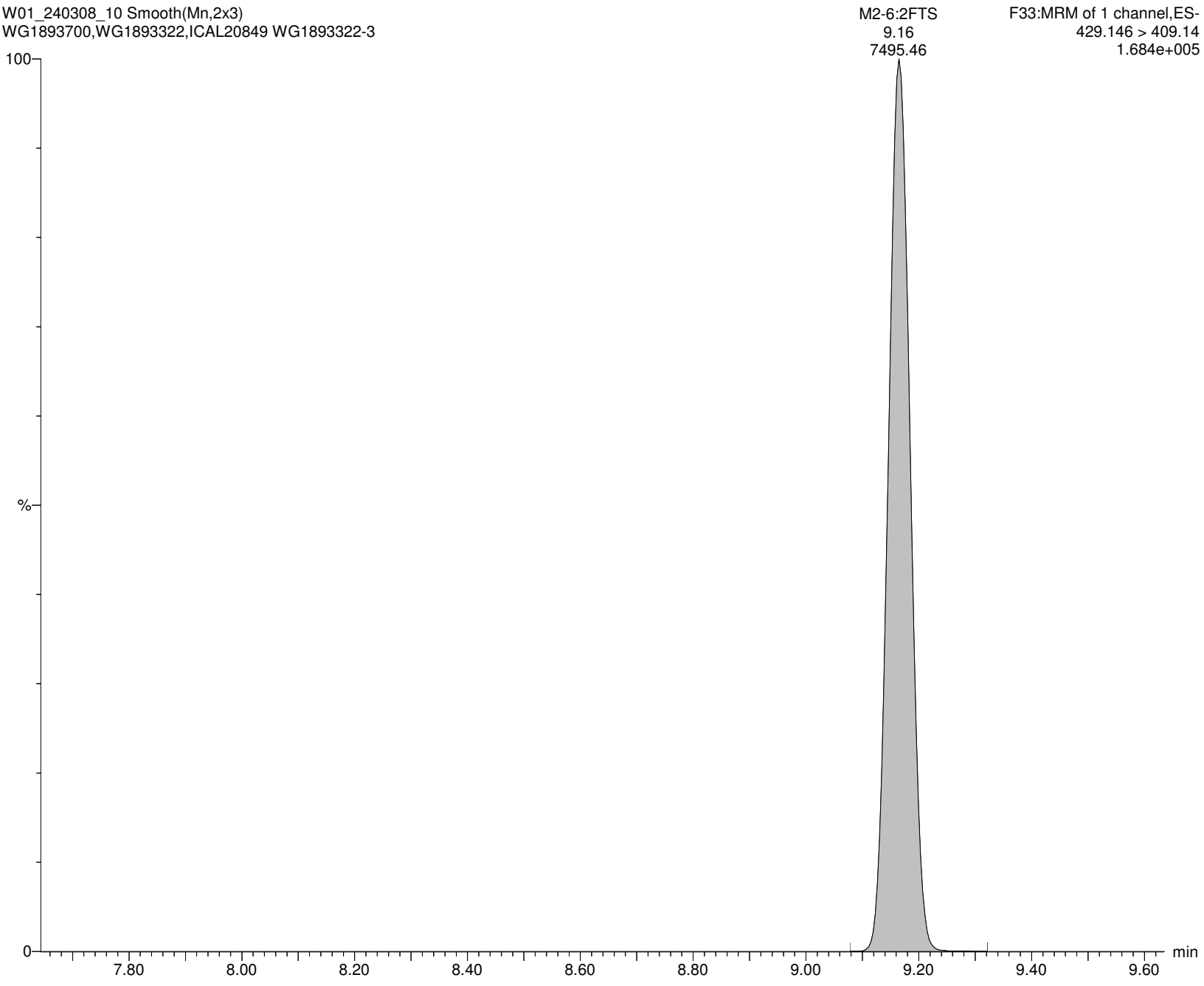

all concentration units in (ng/mL)

Alpha Analytical Inc.
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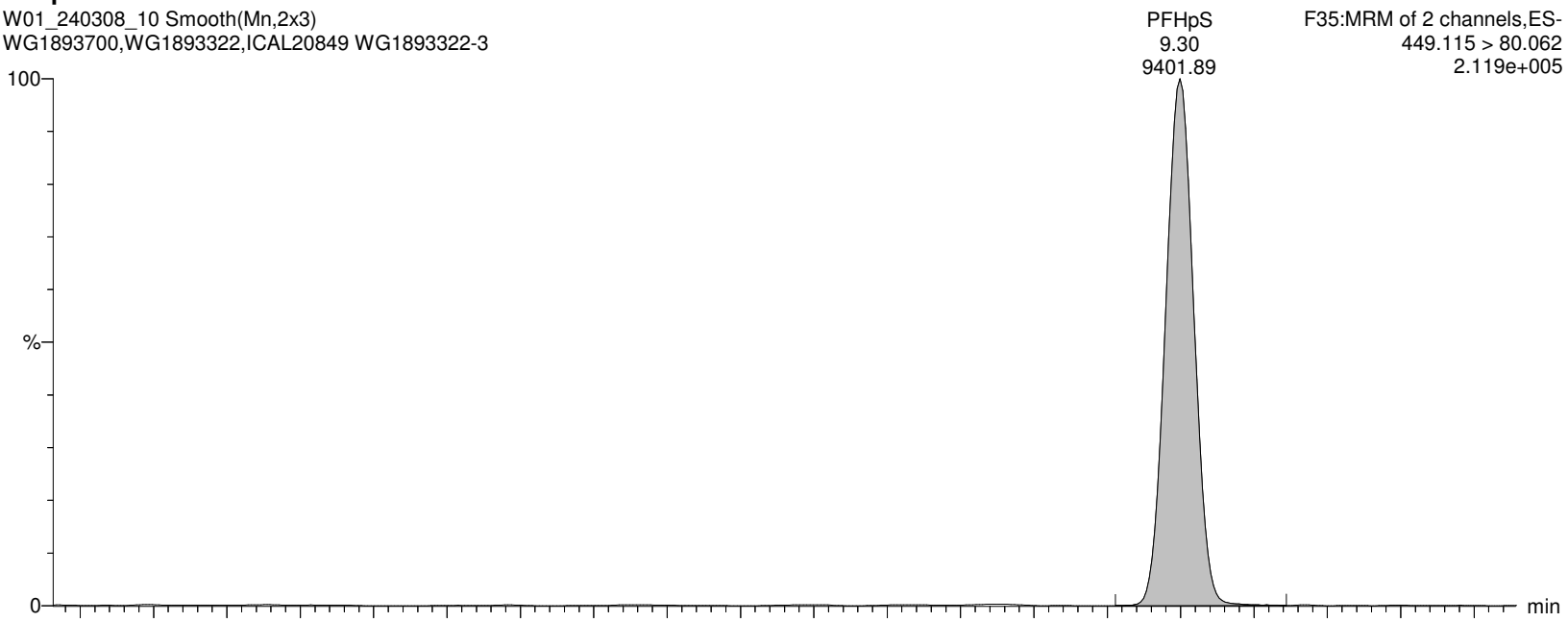

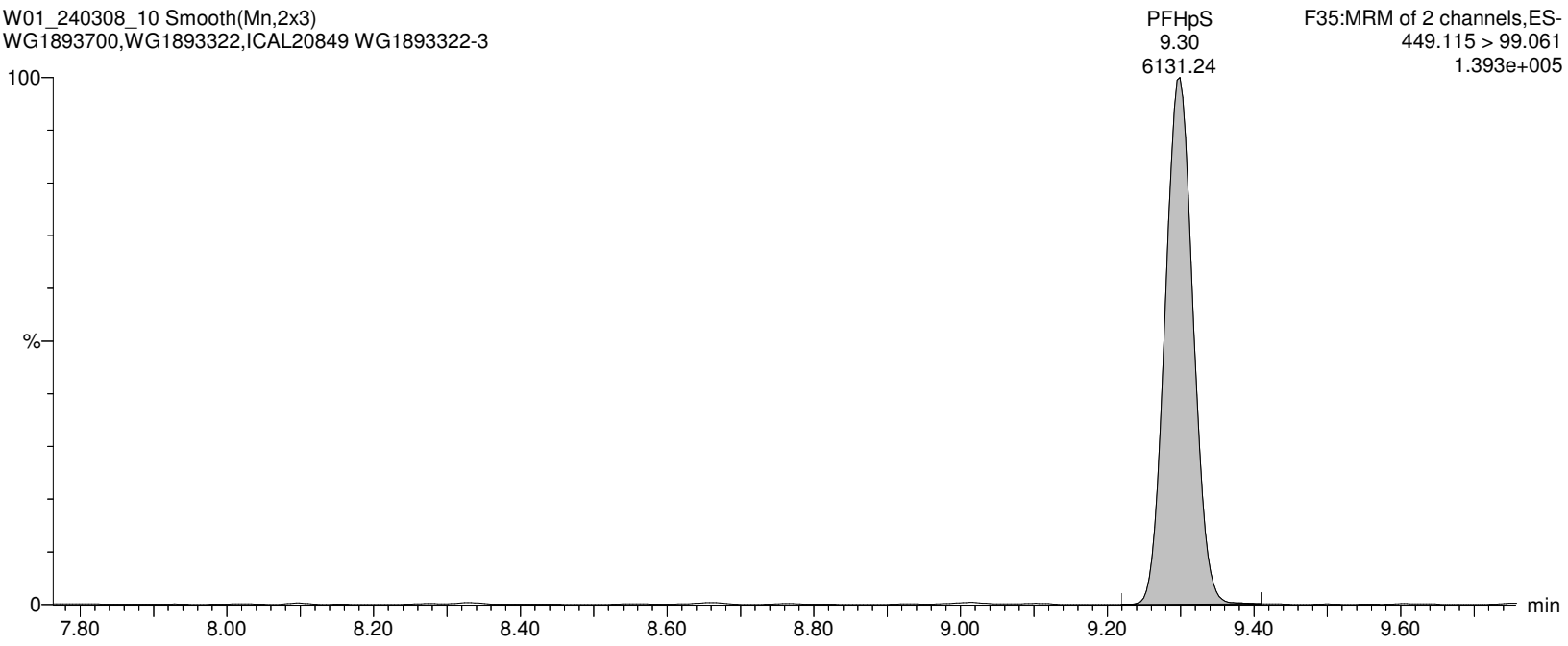

all concentration units in (ng/mL)

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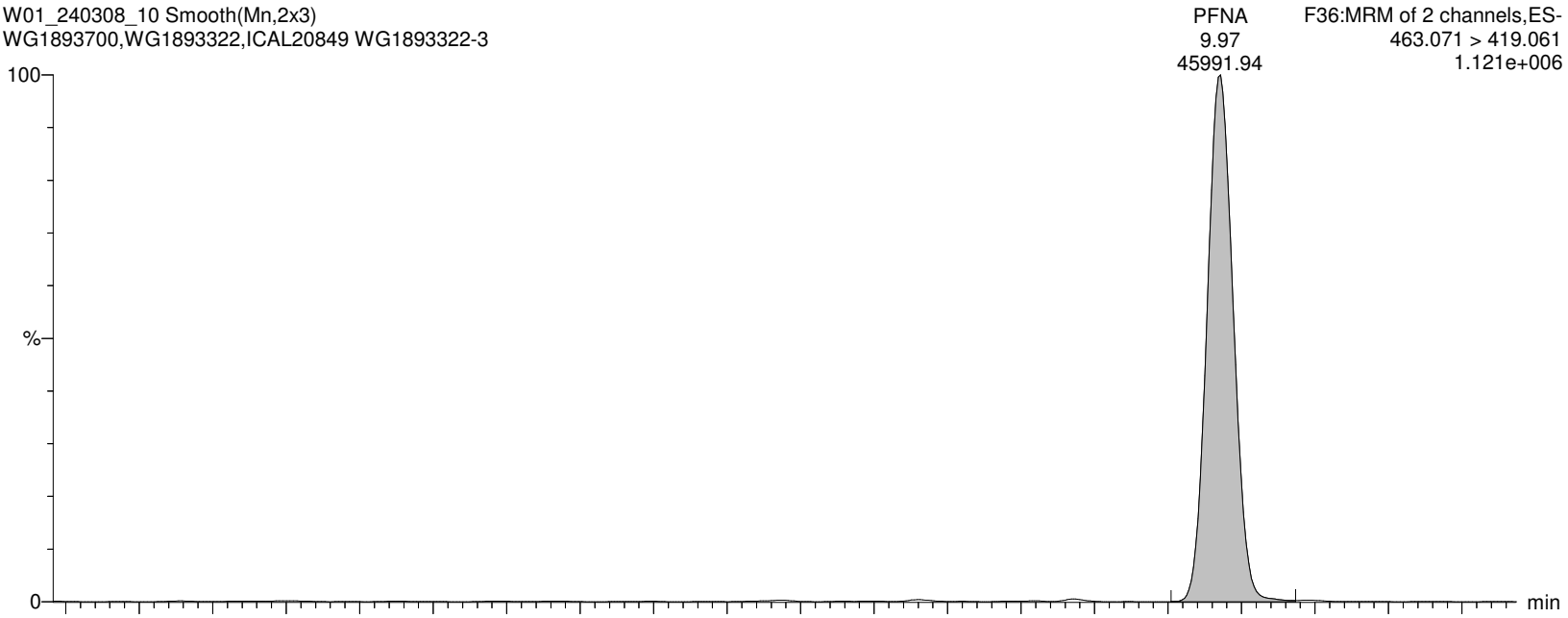

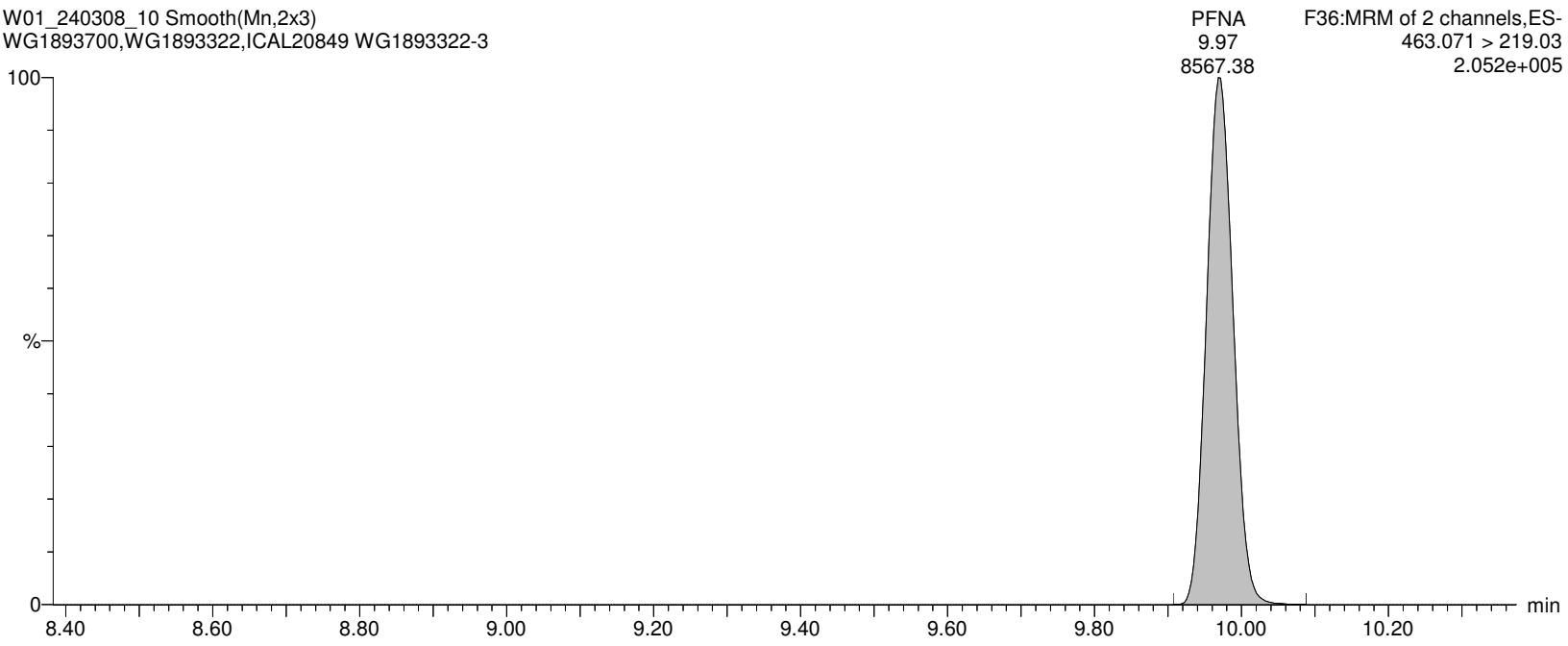

all concentration units in (ng/mL)

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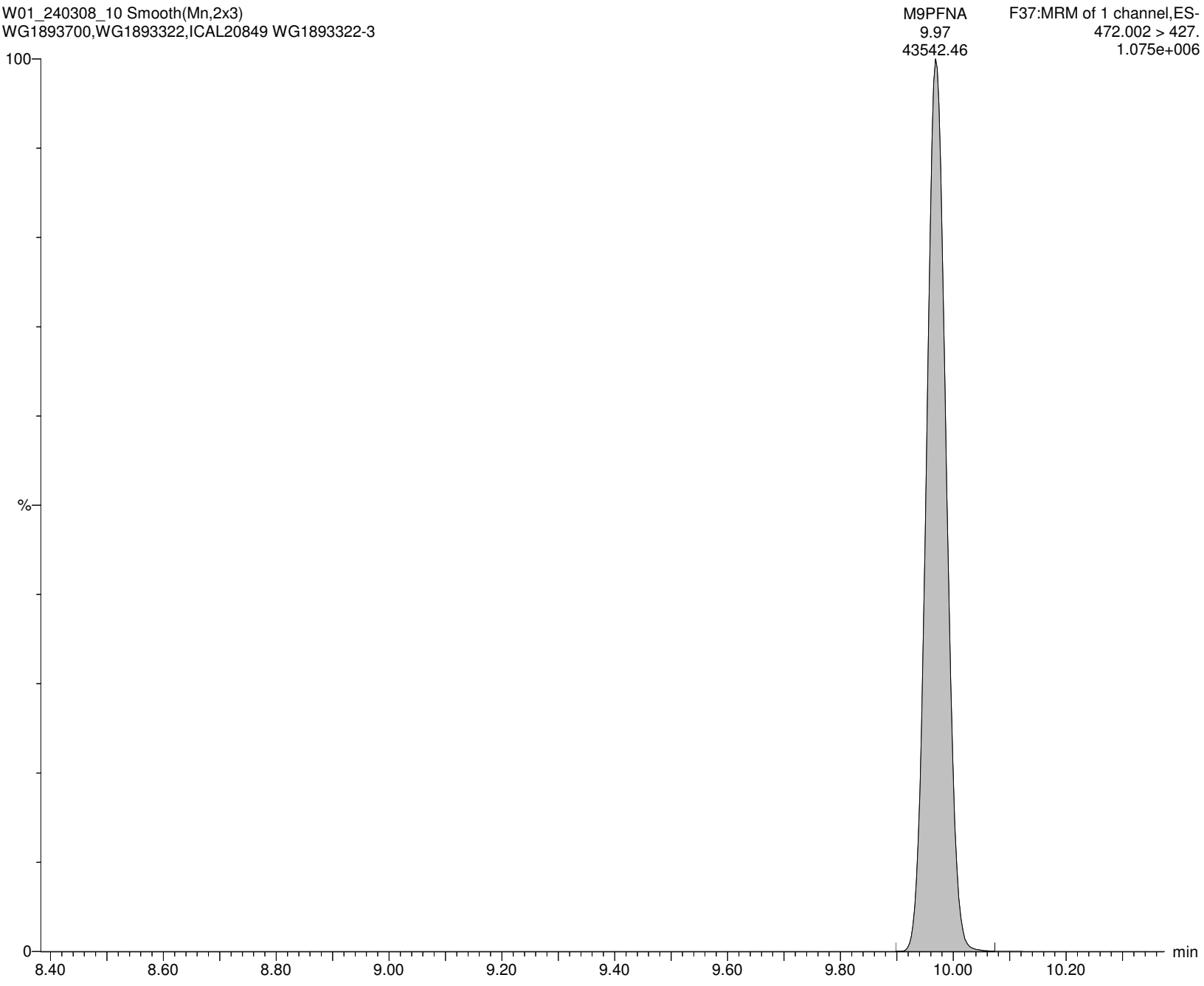

all concentration units in (ng/mL)

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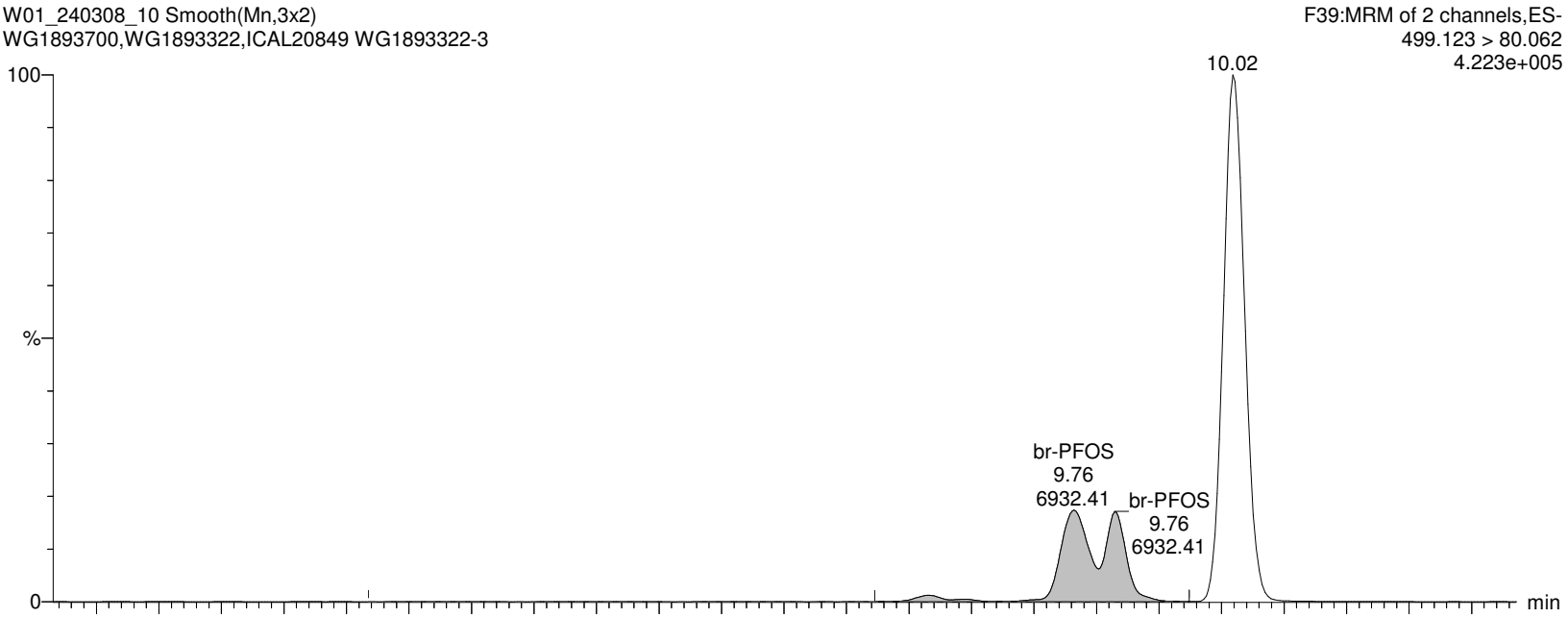

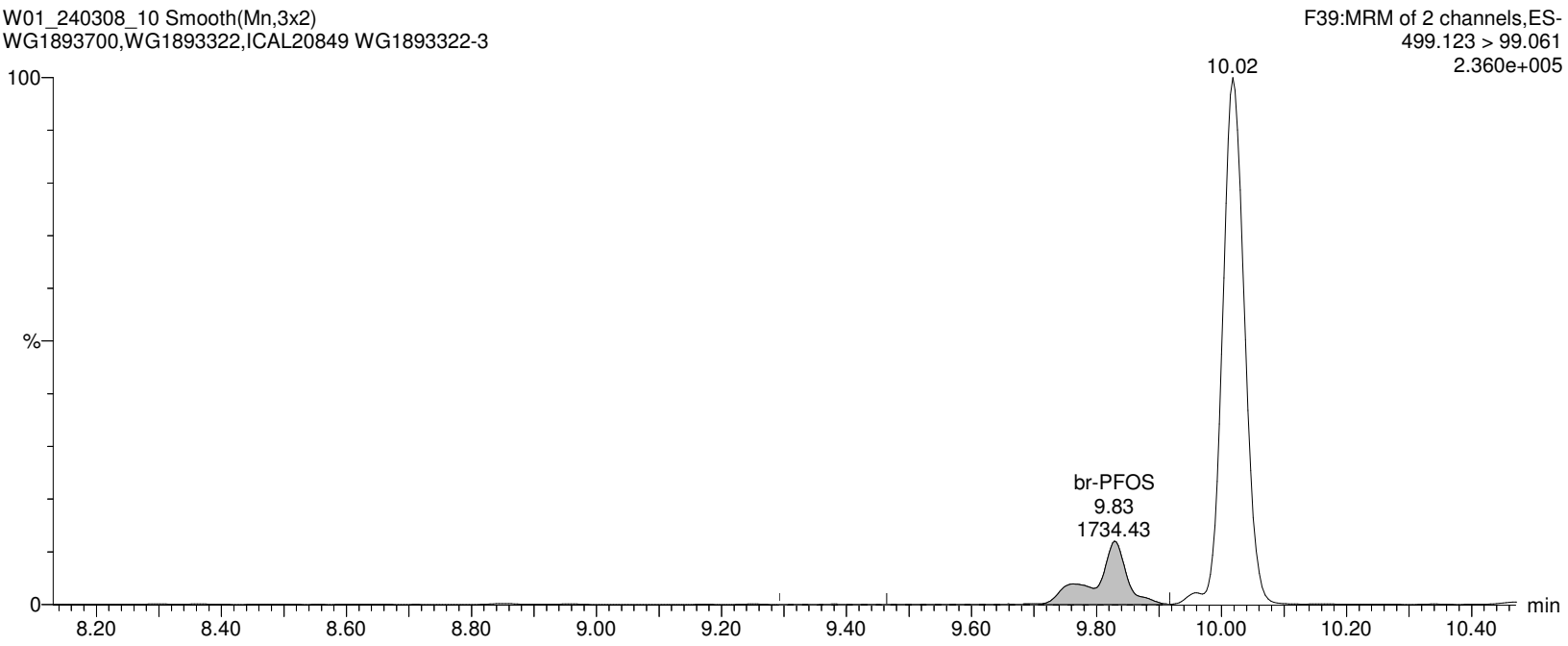

all concentration units in (ng/mL)

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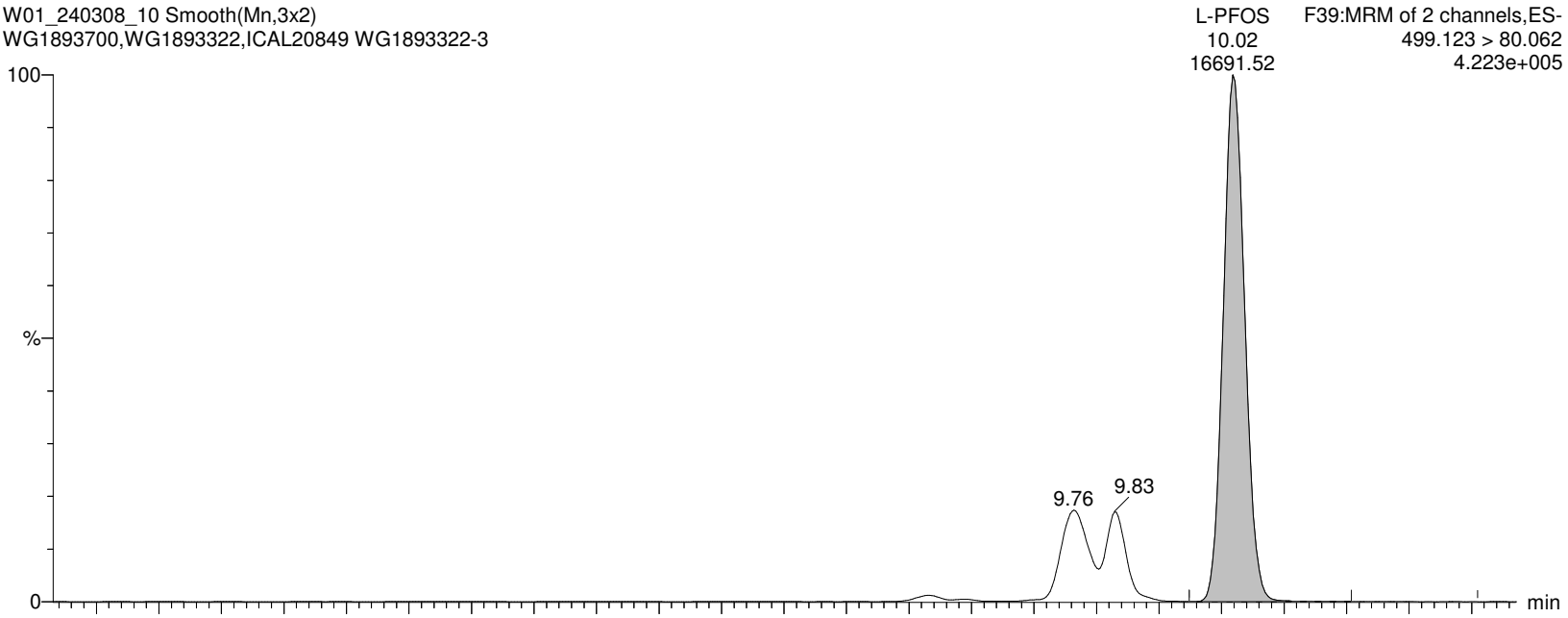

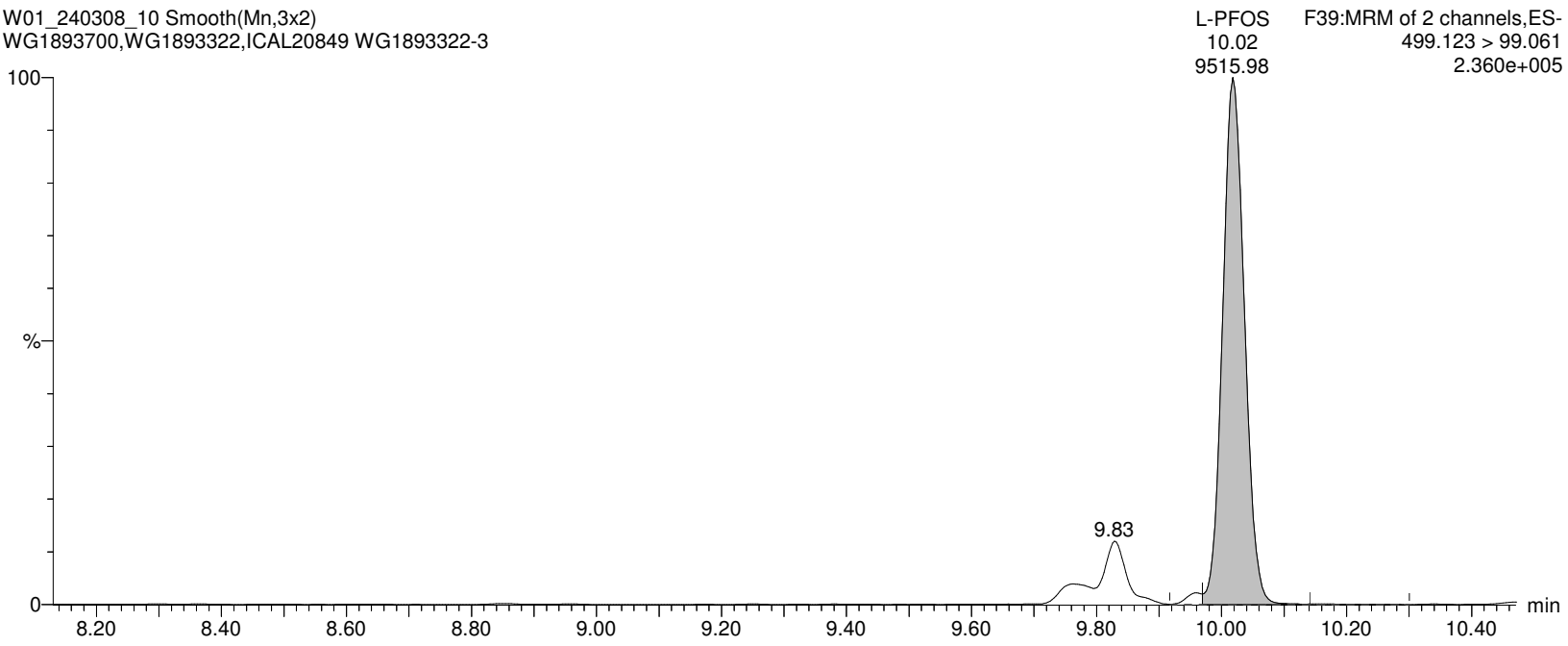

all concentration units in (ng/mL)

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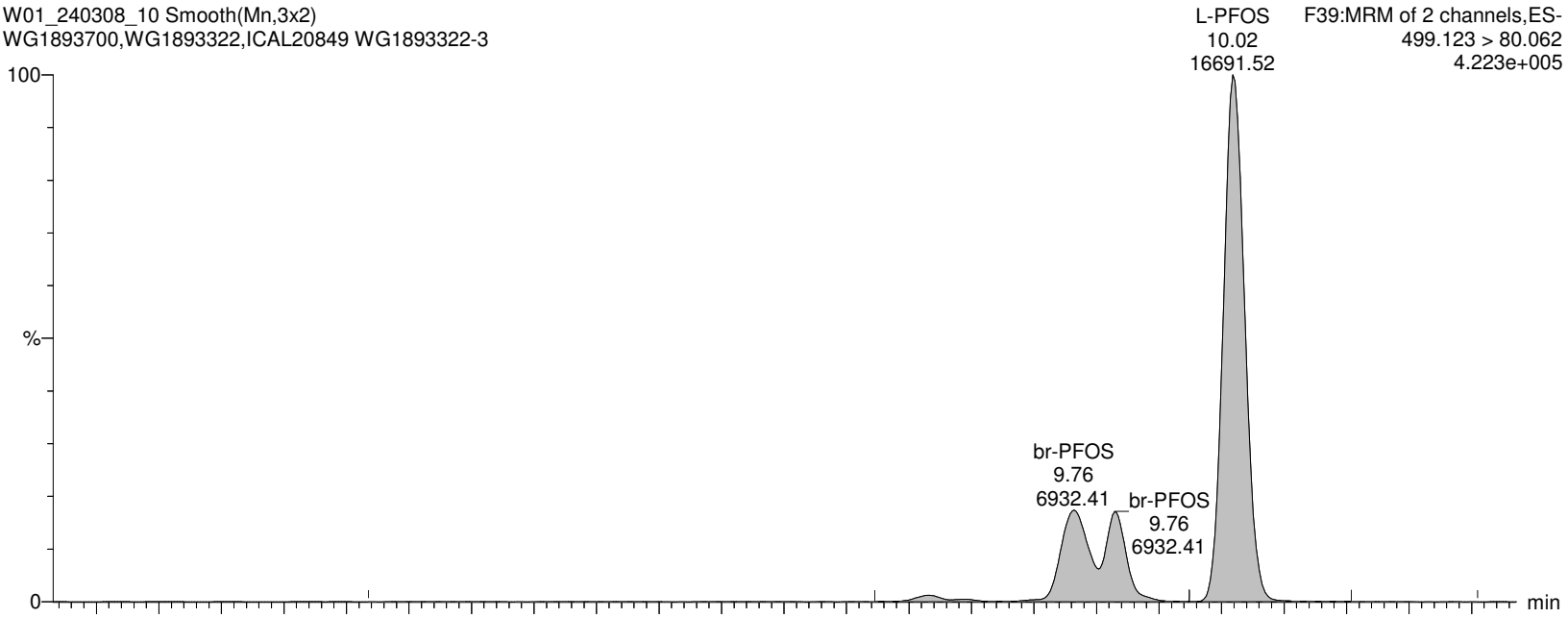
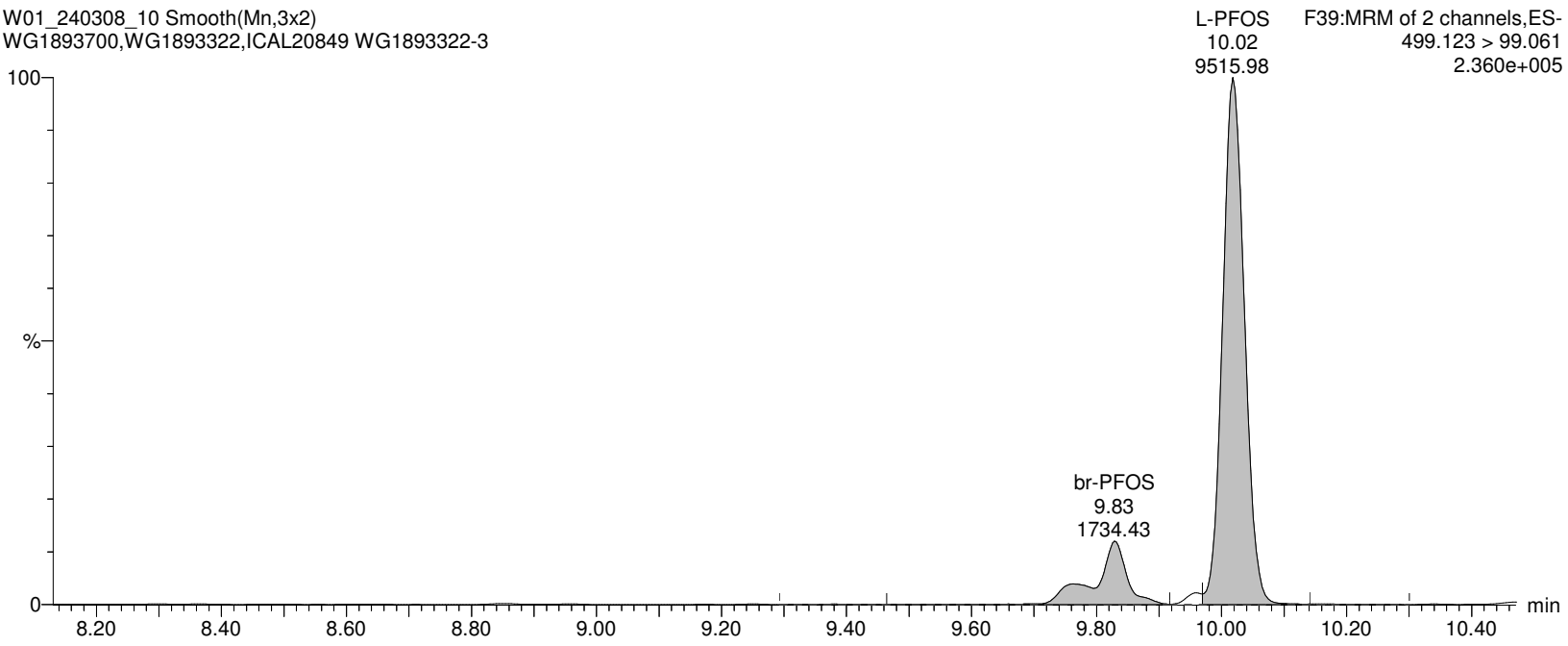
PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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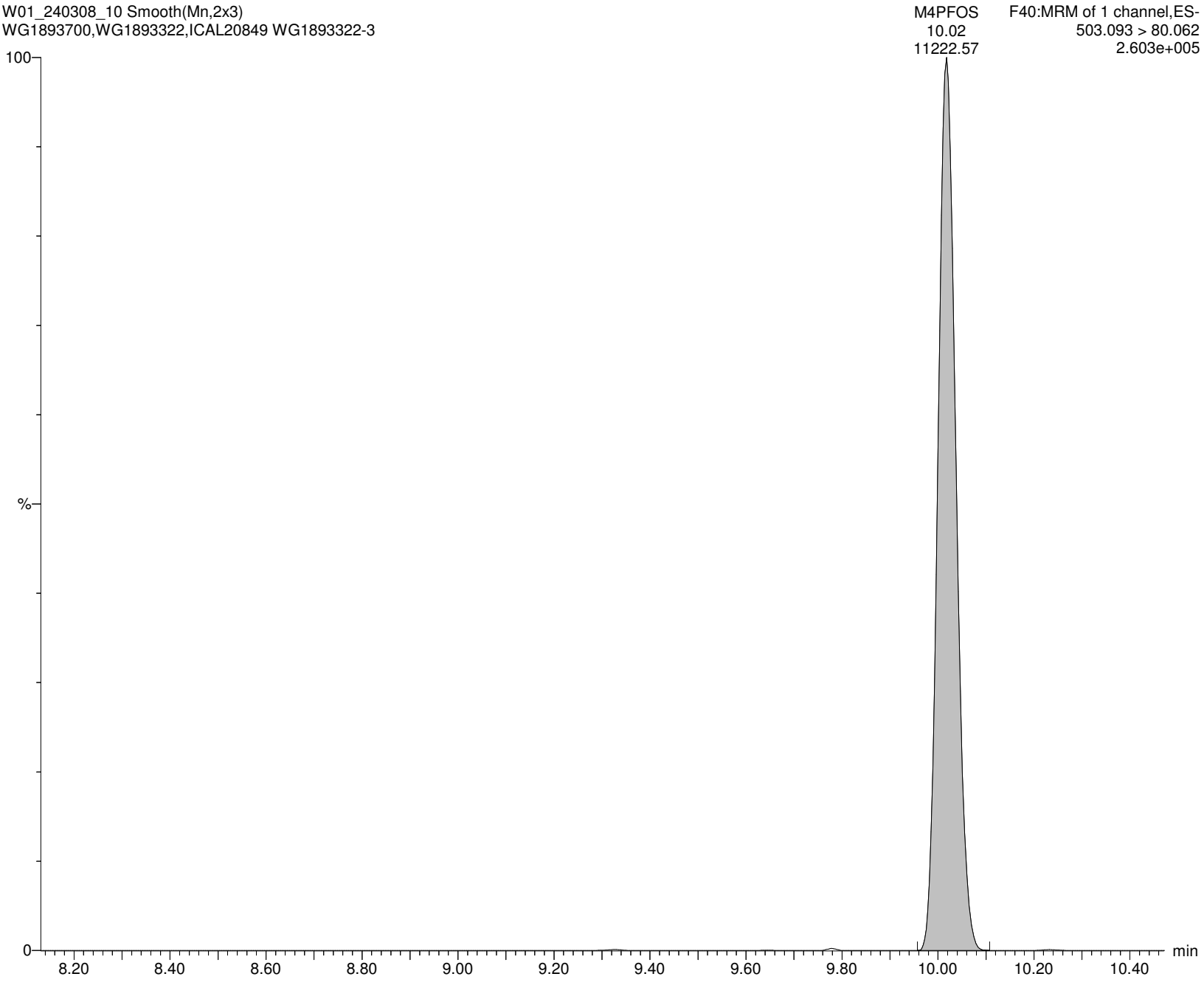

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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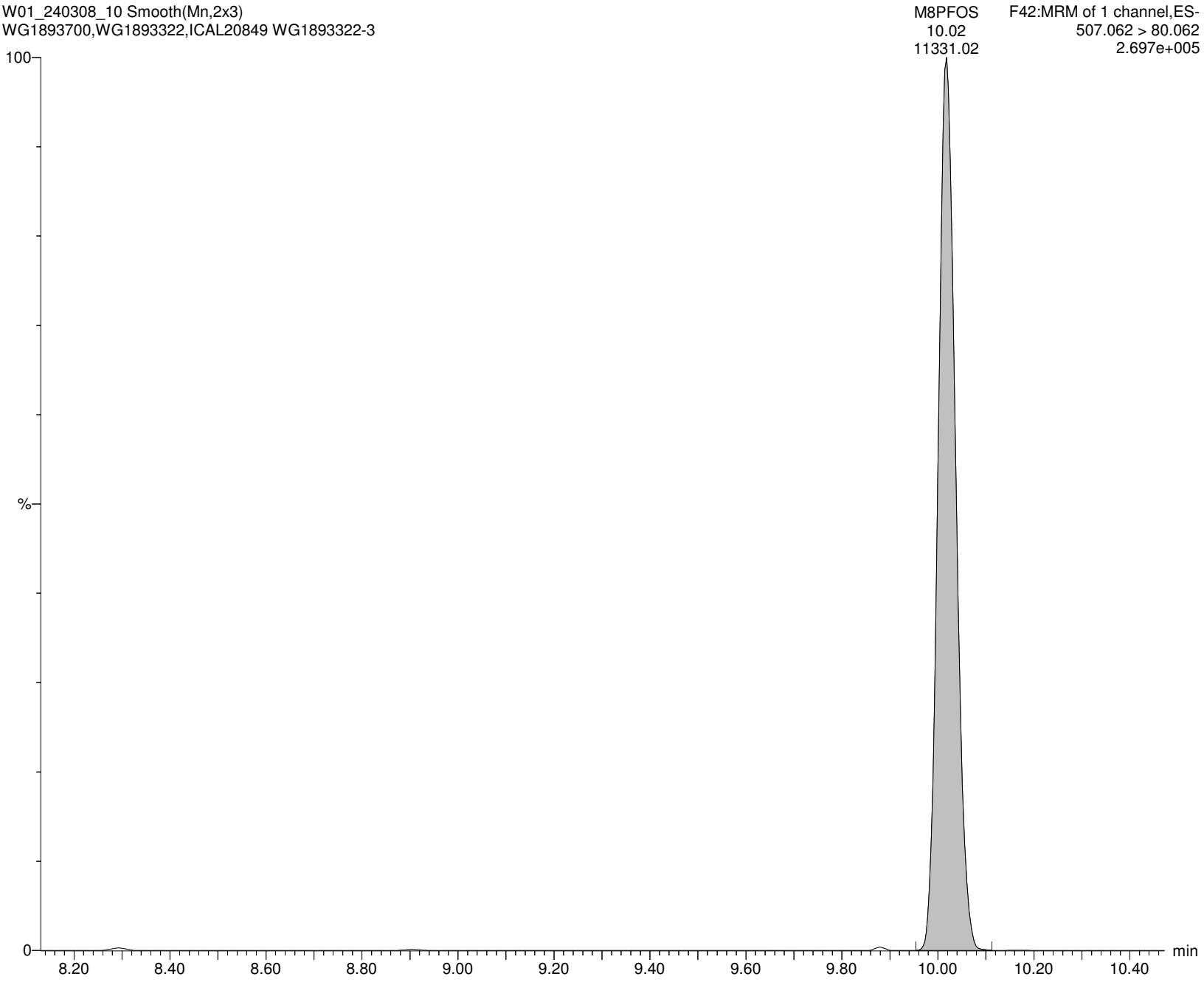

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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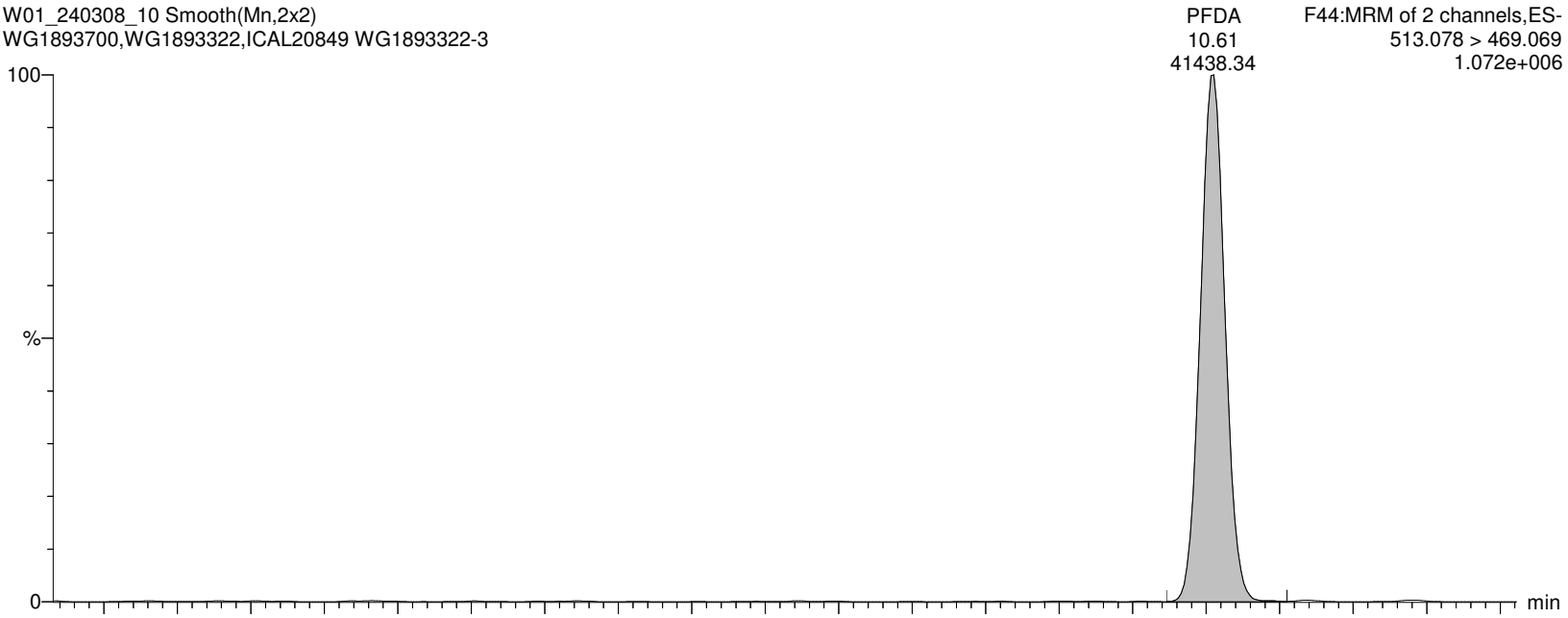

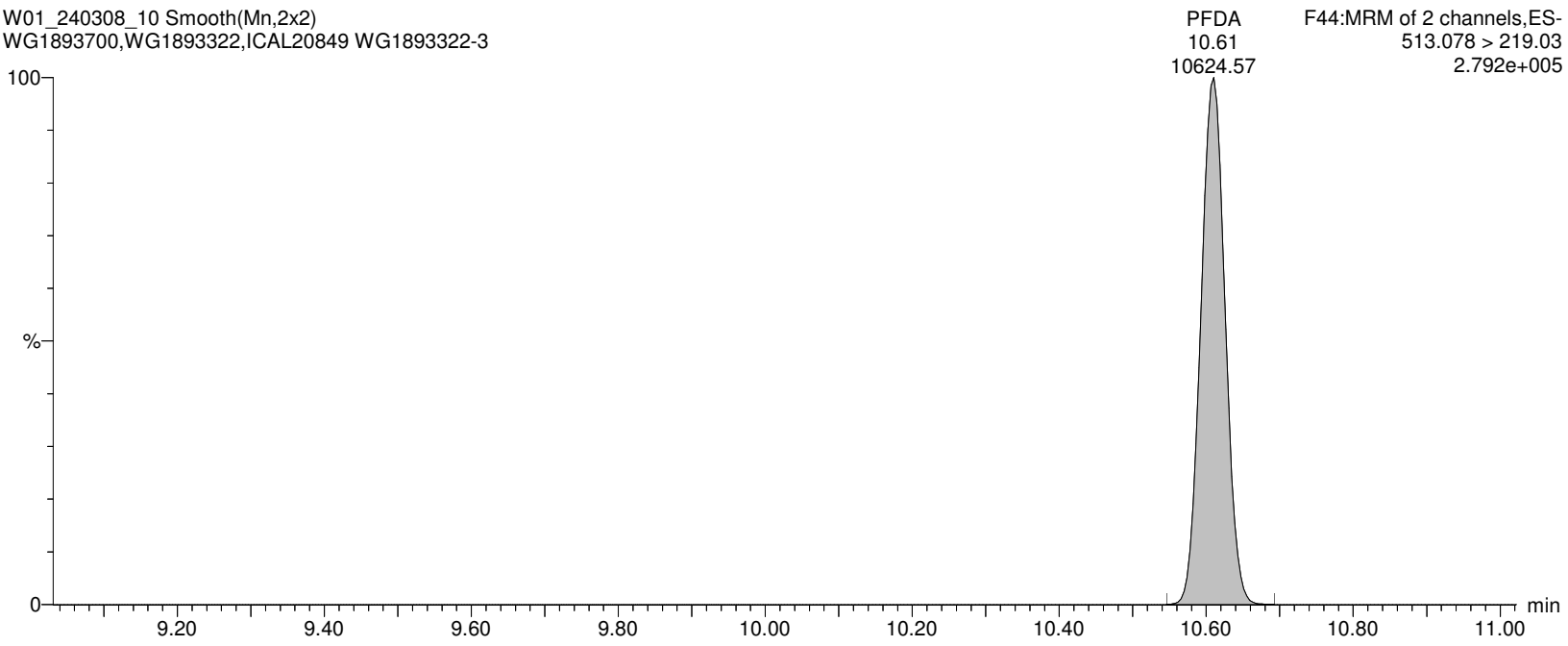

all concentration units in (ng/mL)

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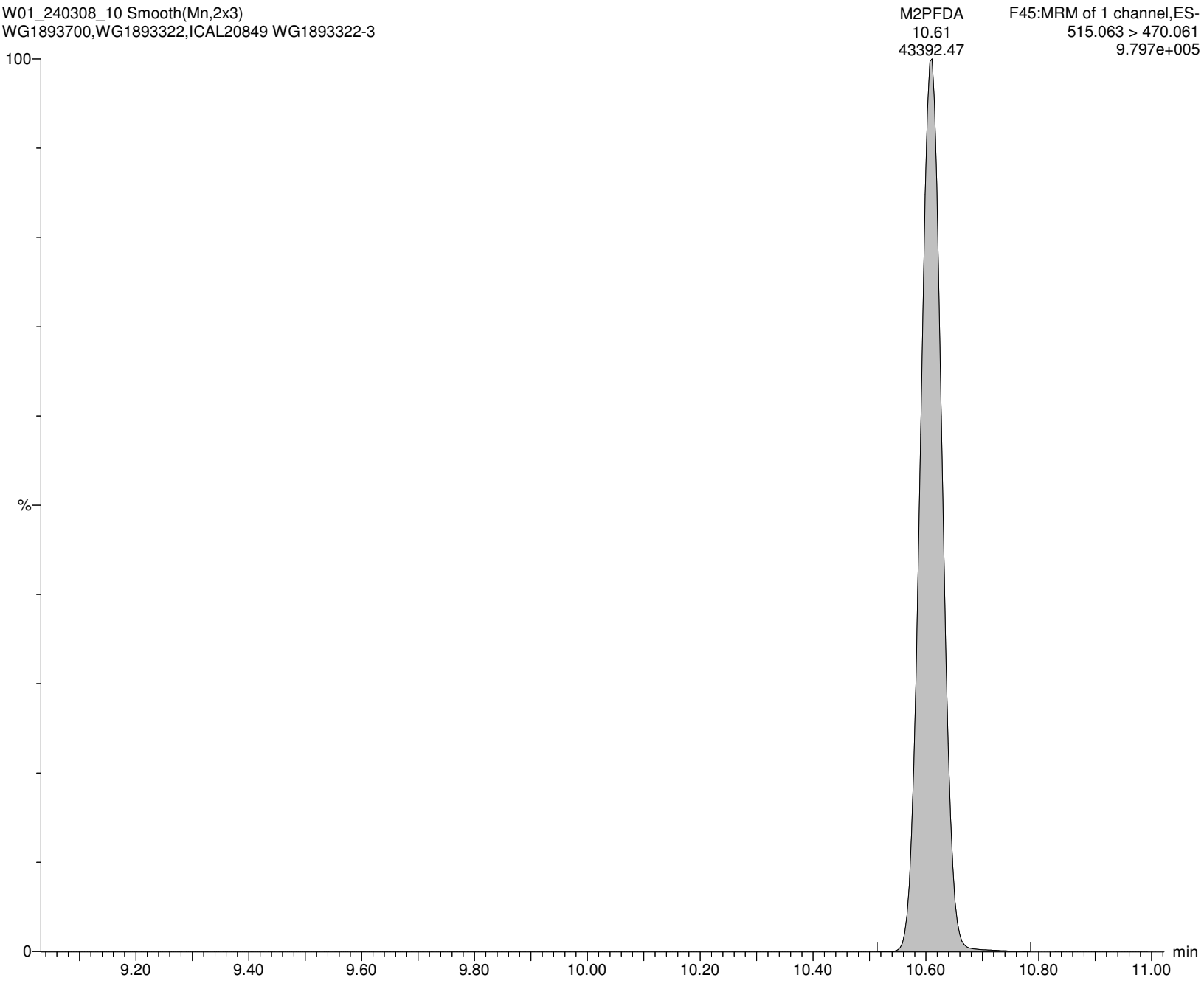
M2PFDA



all concentration units in (ng/mL)

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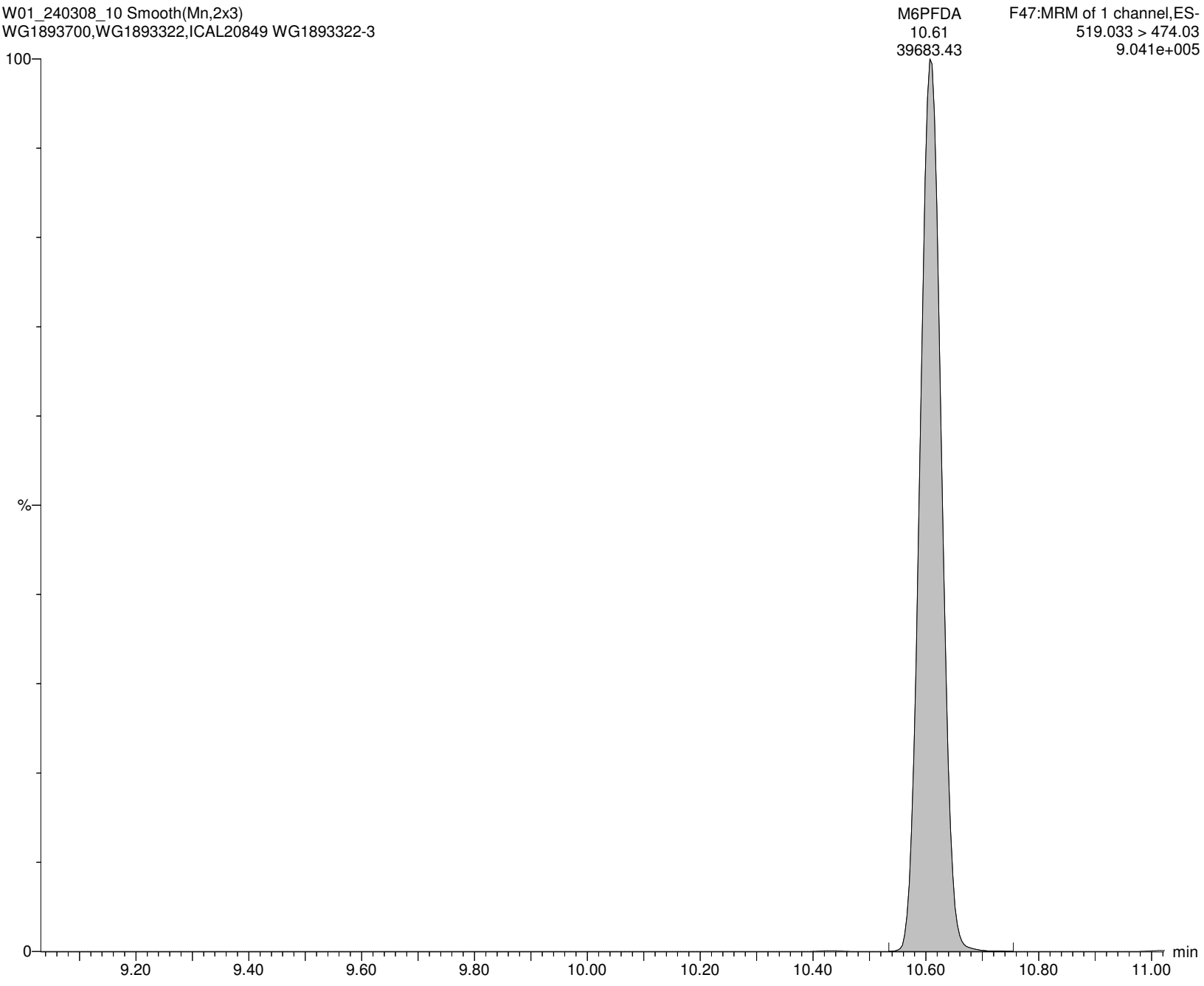

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Alpha Analytical Inc.
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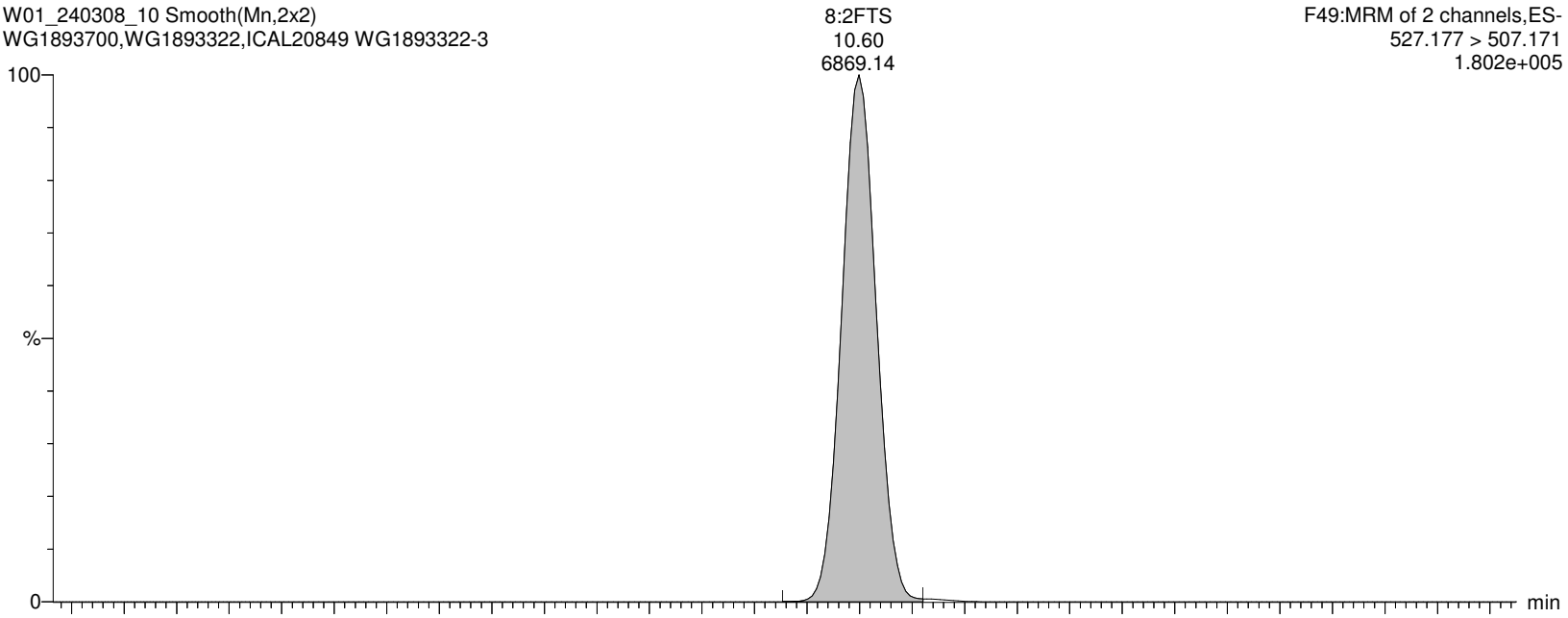
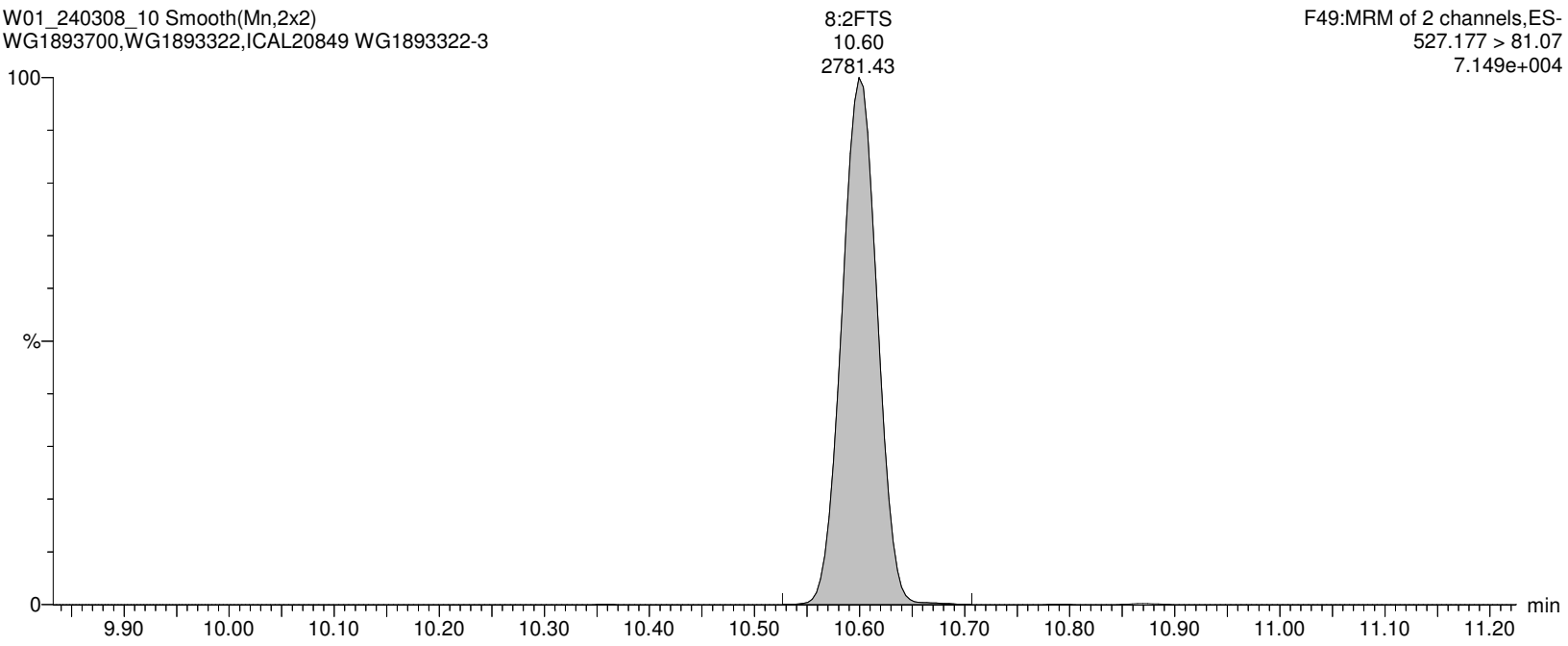
8:2FTS





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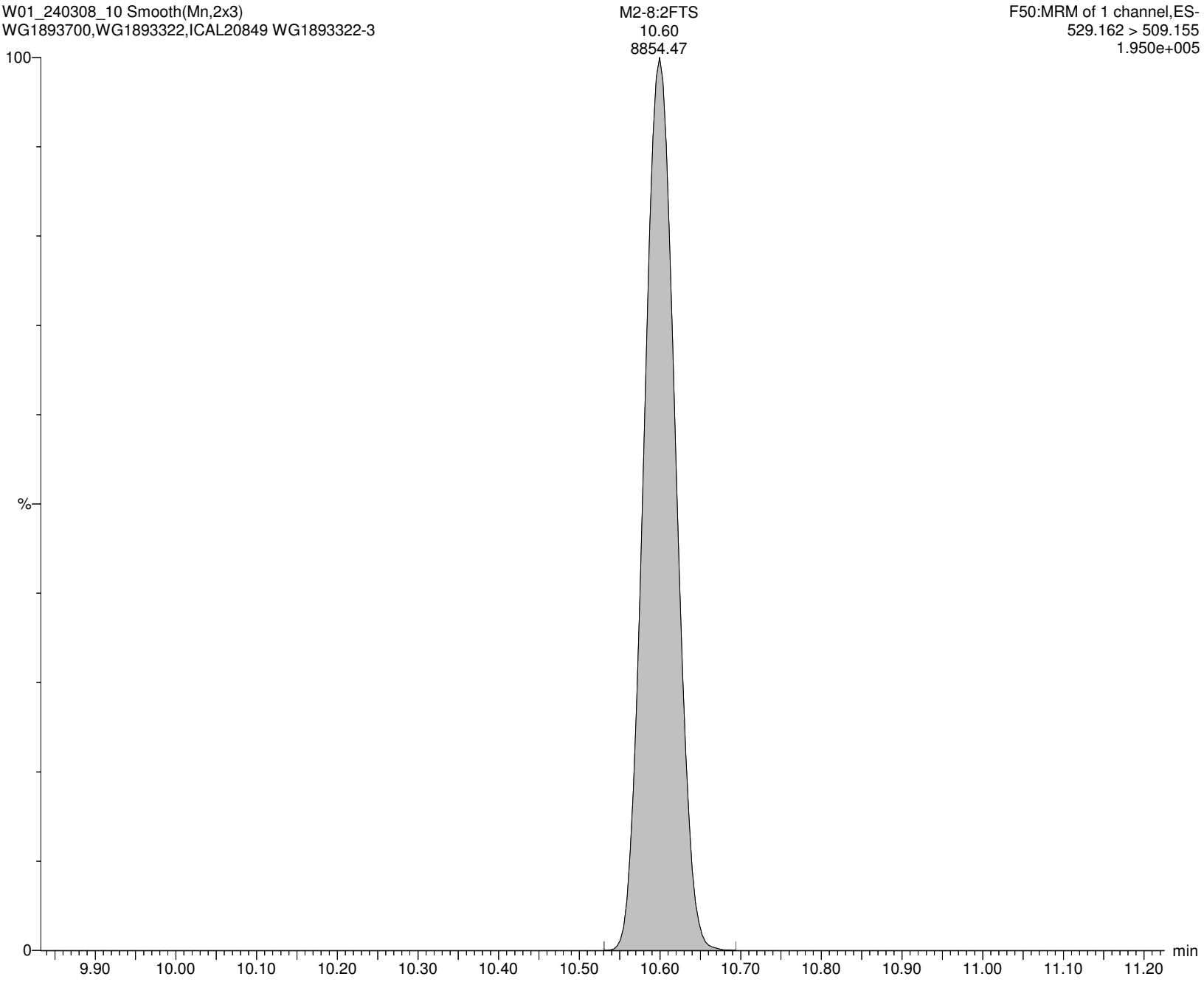

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

Name: W01_240308_10
ID: WG1893322-3
Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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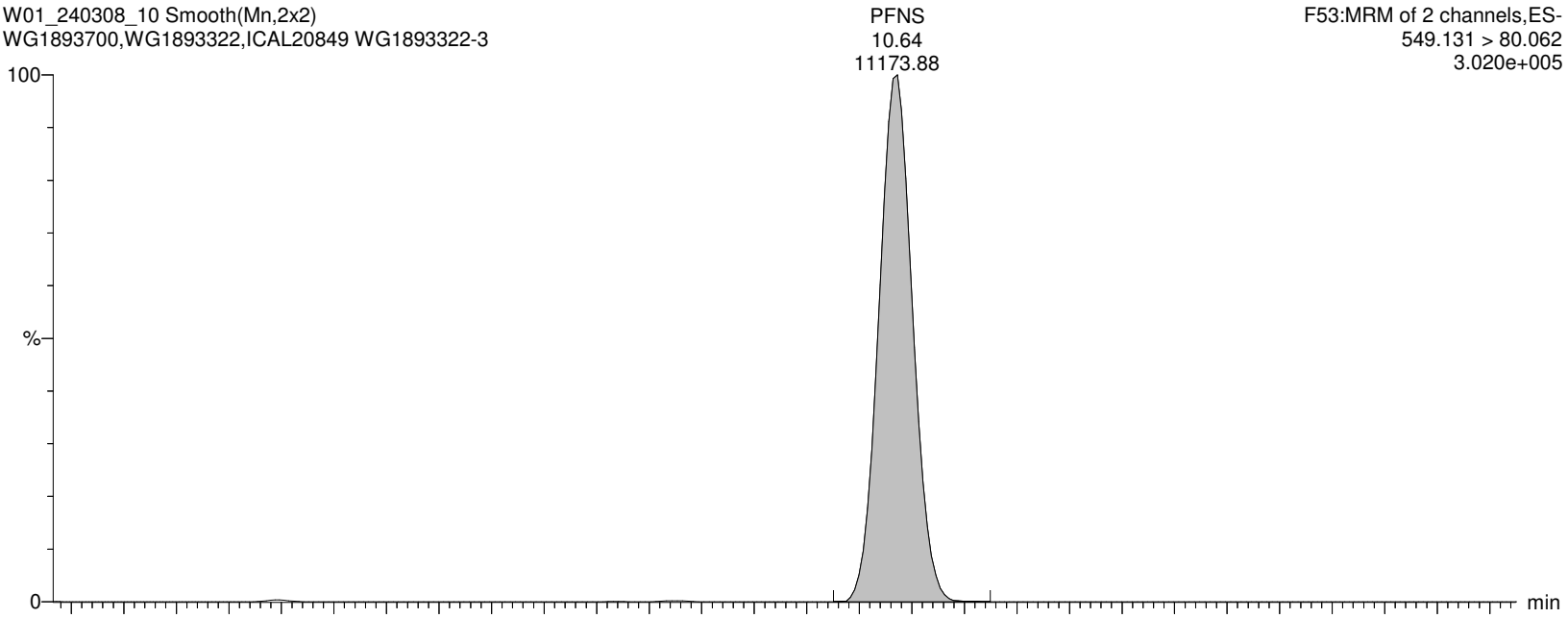

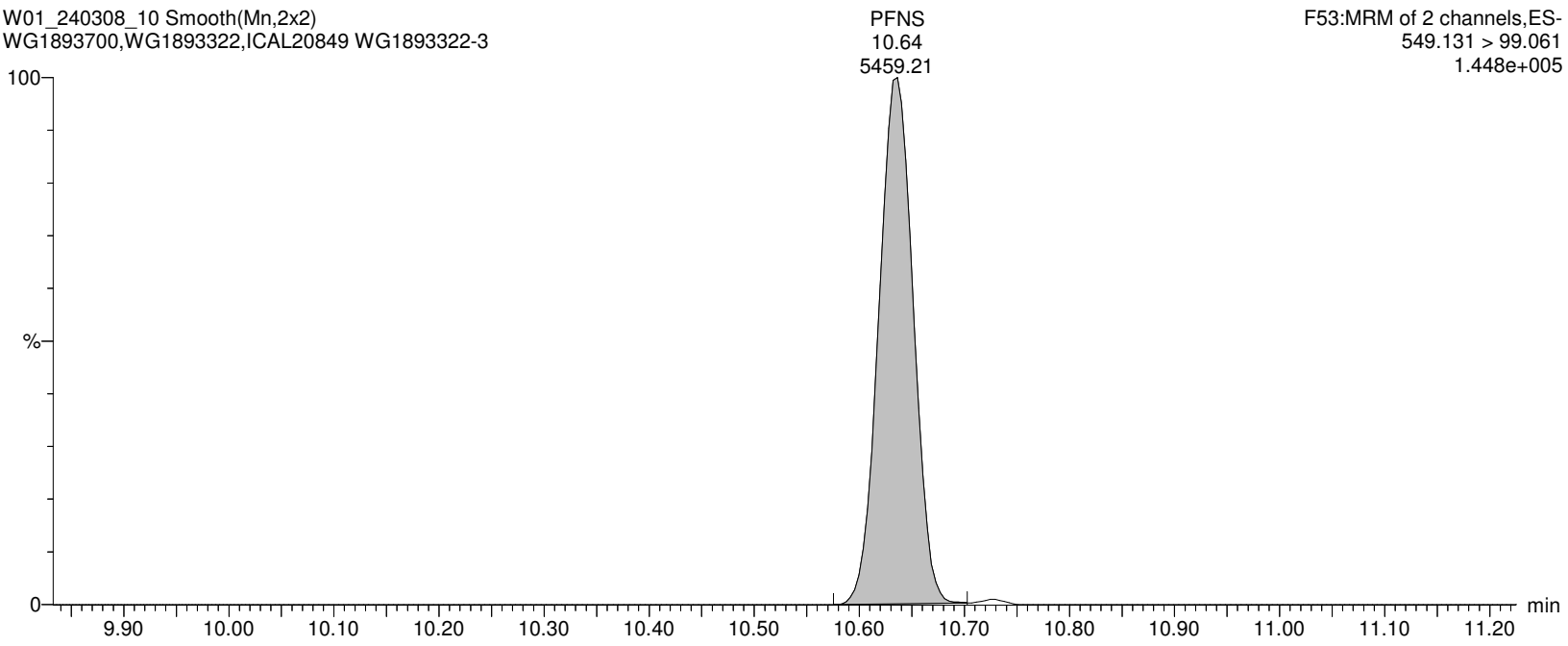

all concentration units in (ng/mL)

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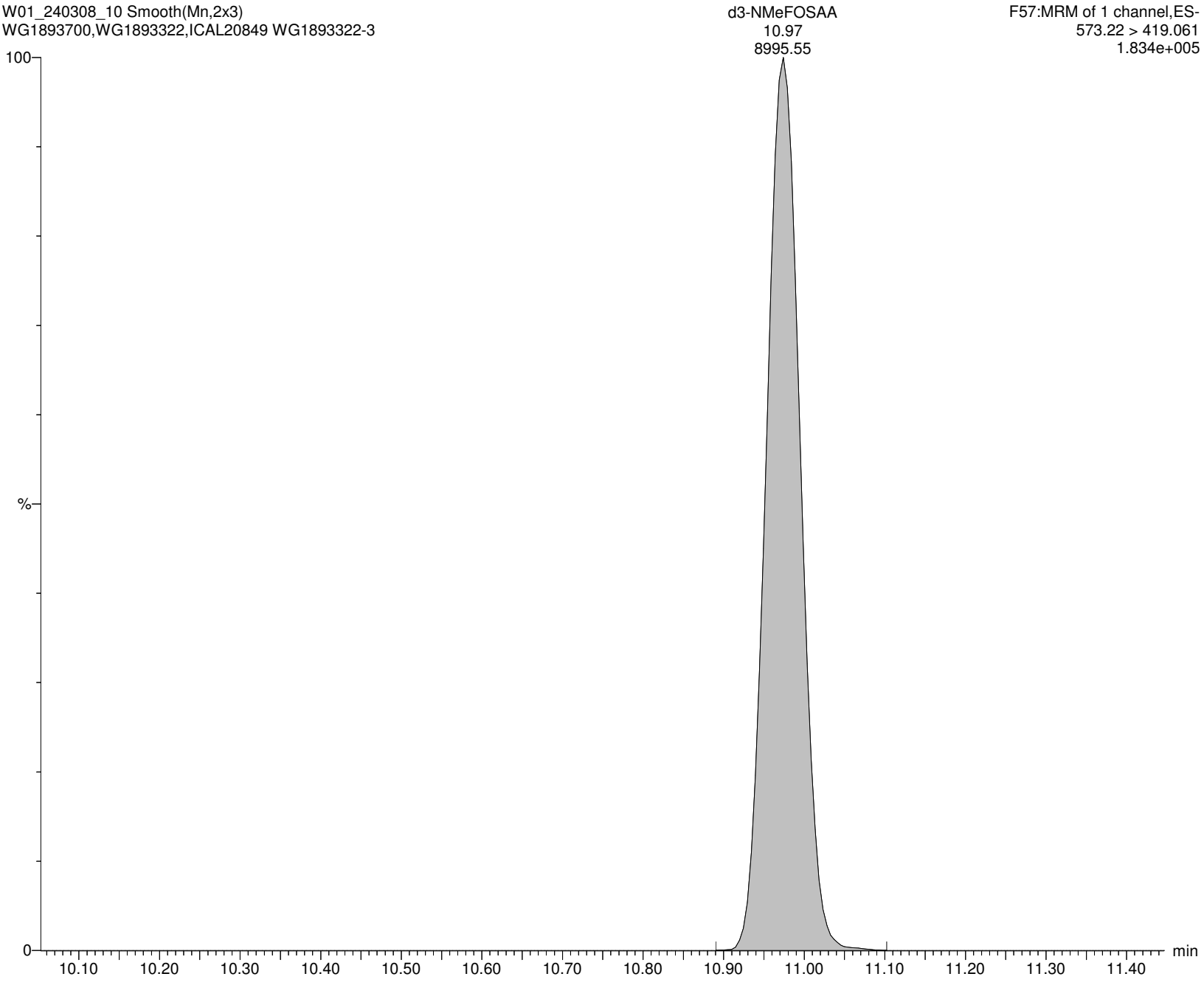
d3-NMeFOSAA



all concentration units in (ng/mL)

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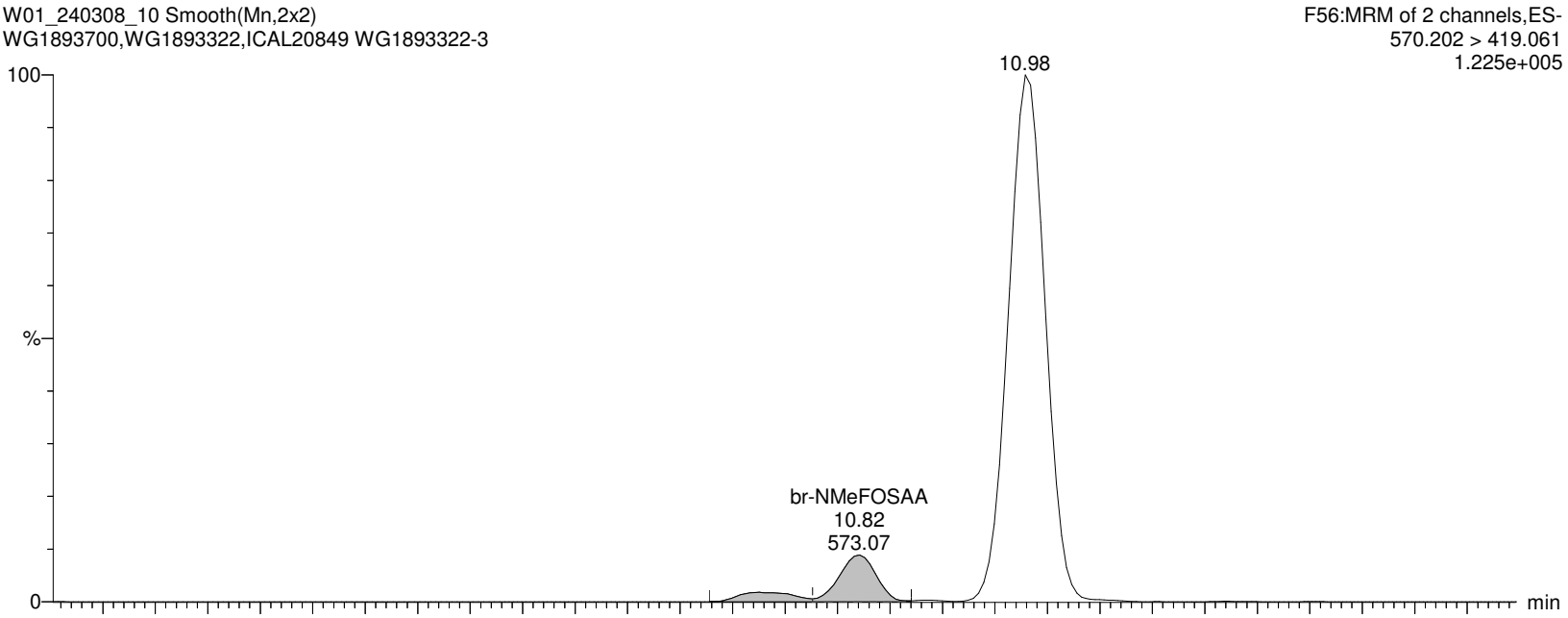
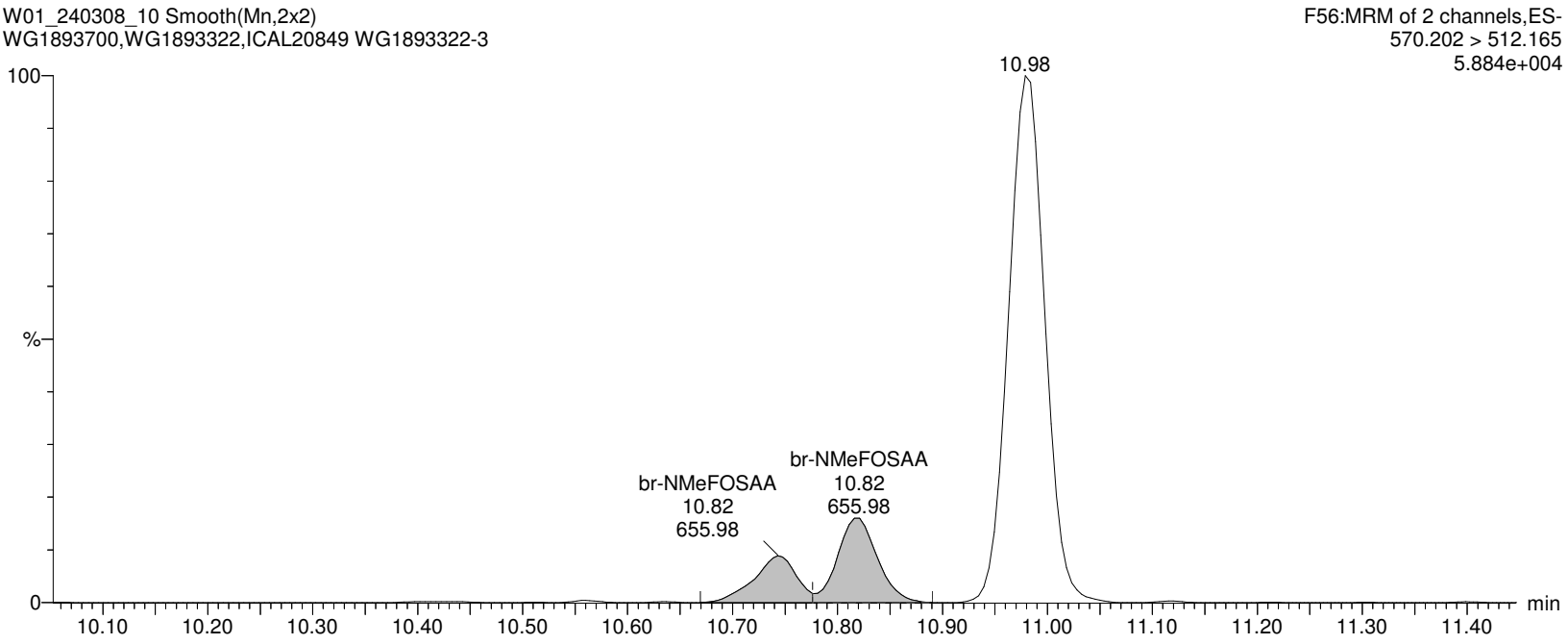
br-NMeFOSAA





all concentration units in (ng/mL)

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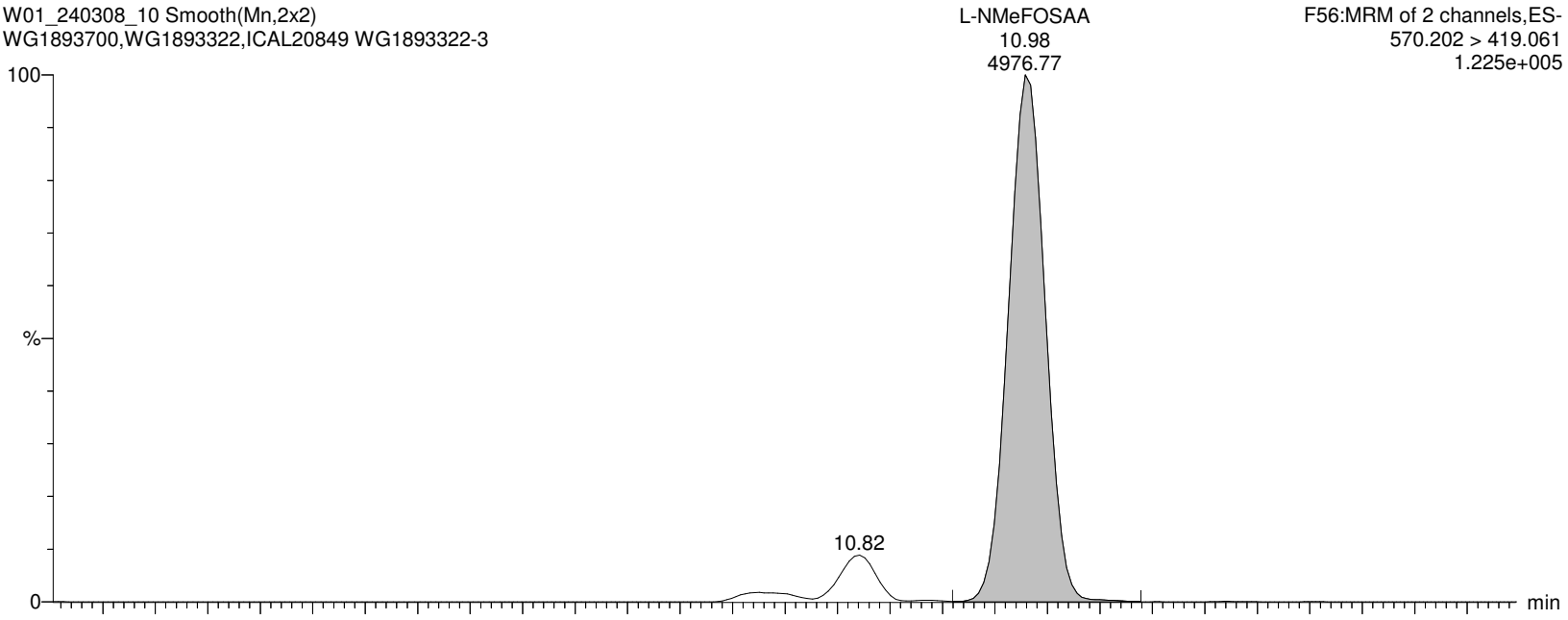

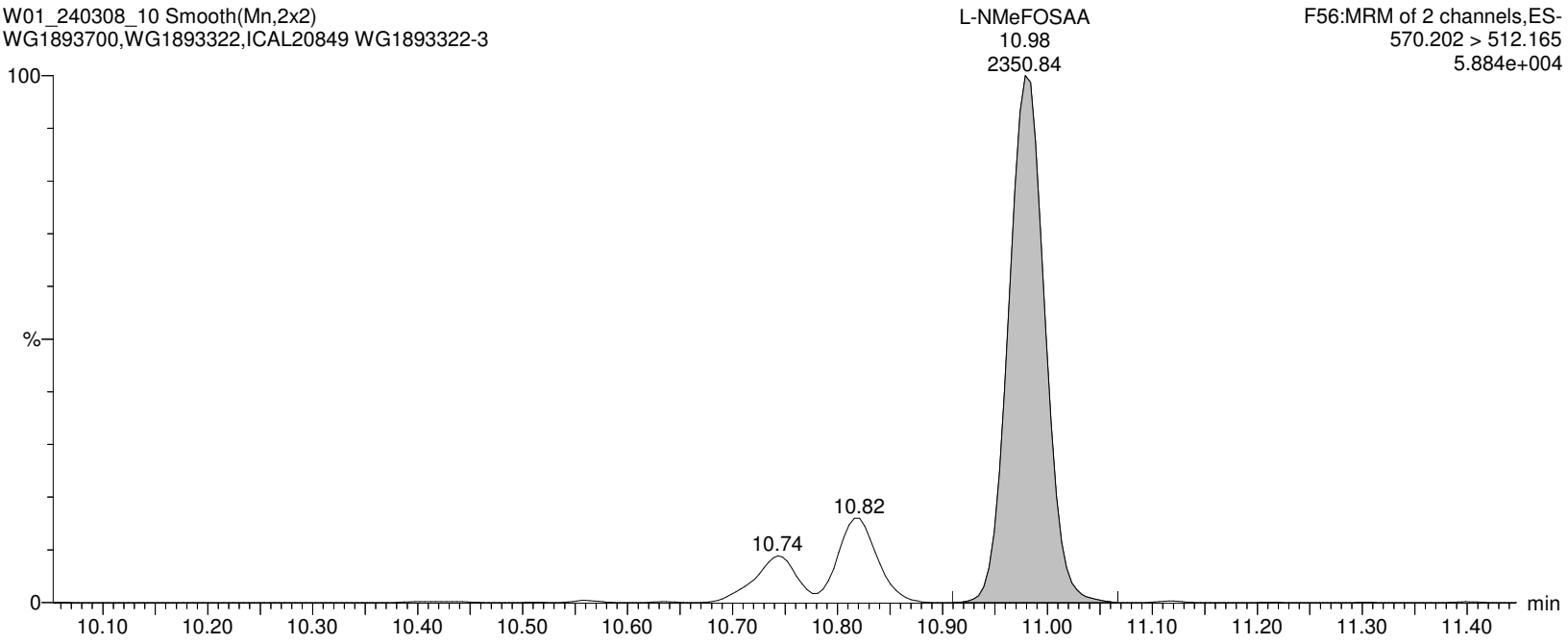

all concentration units in (ng/mL)

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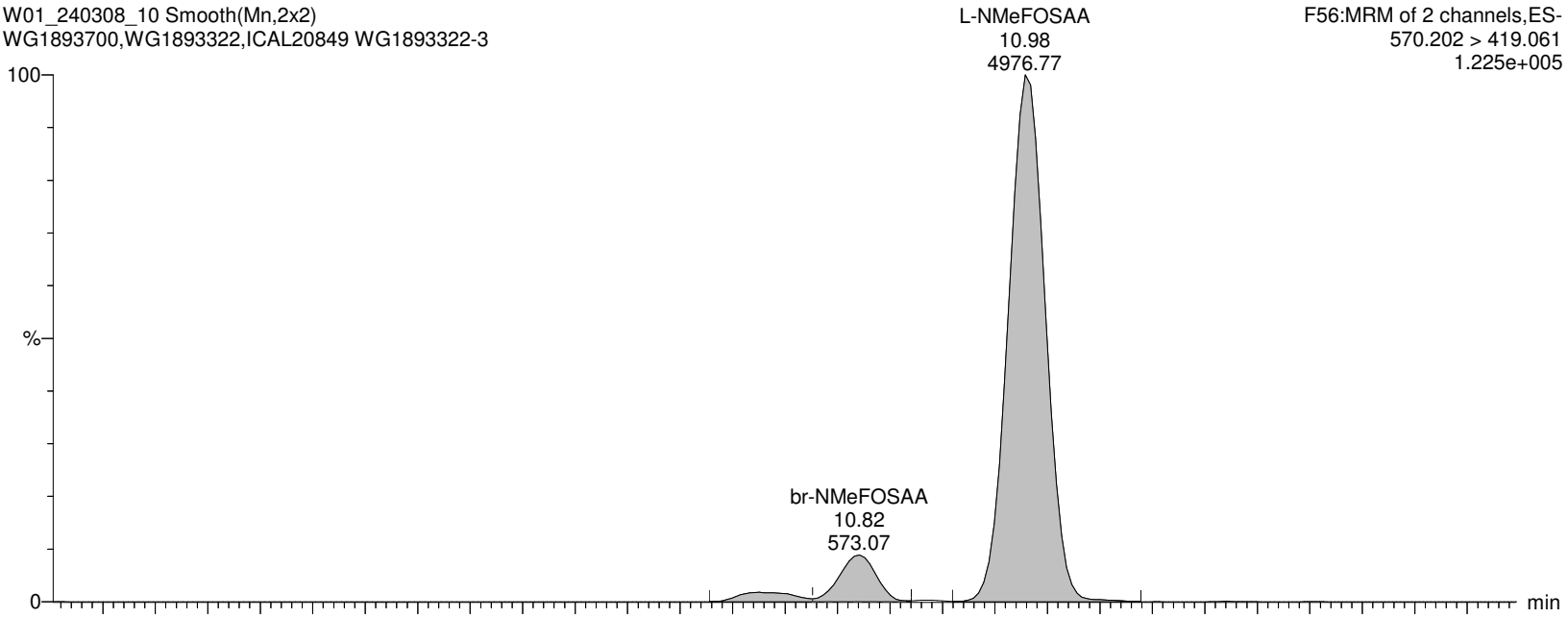

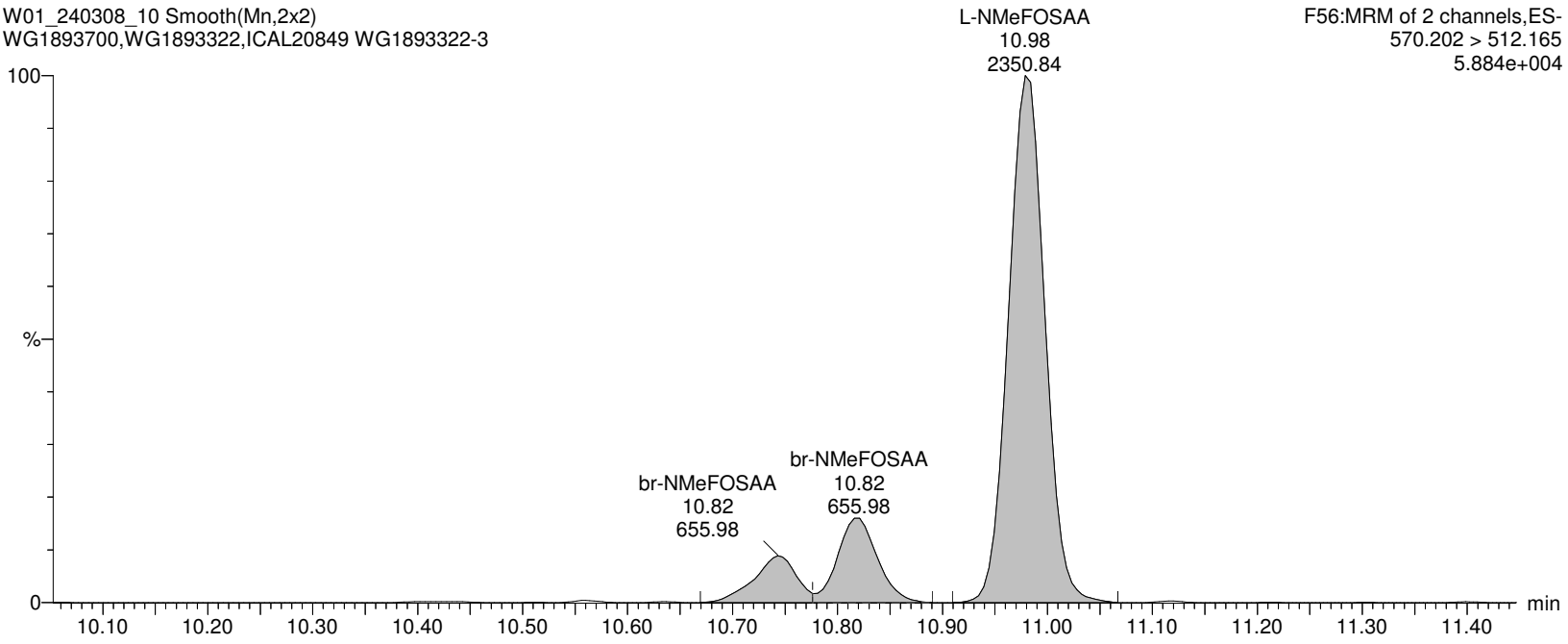

all concentration units in (ng/mL)

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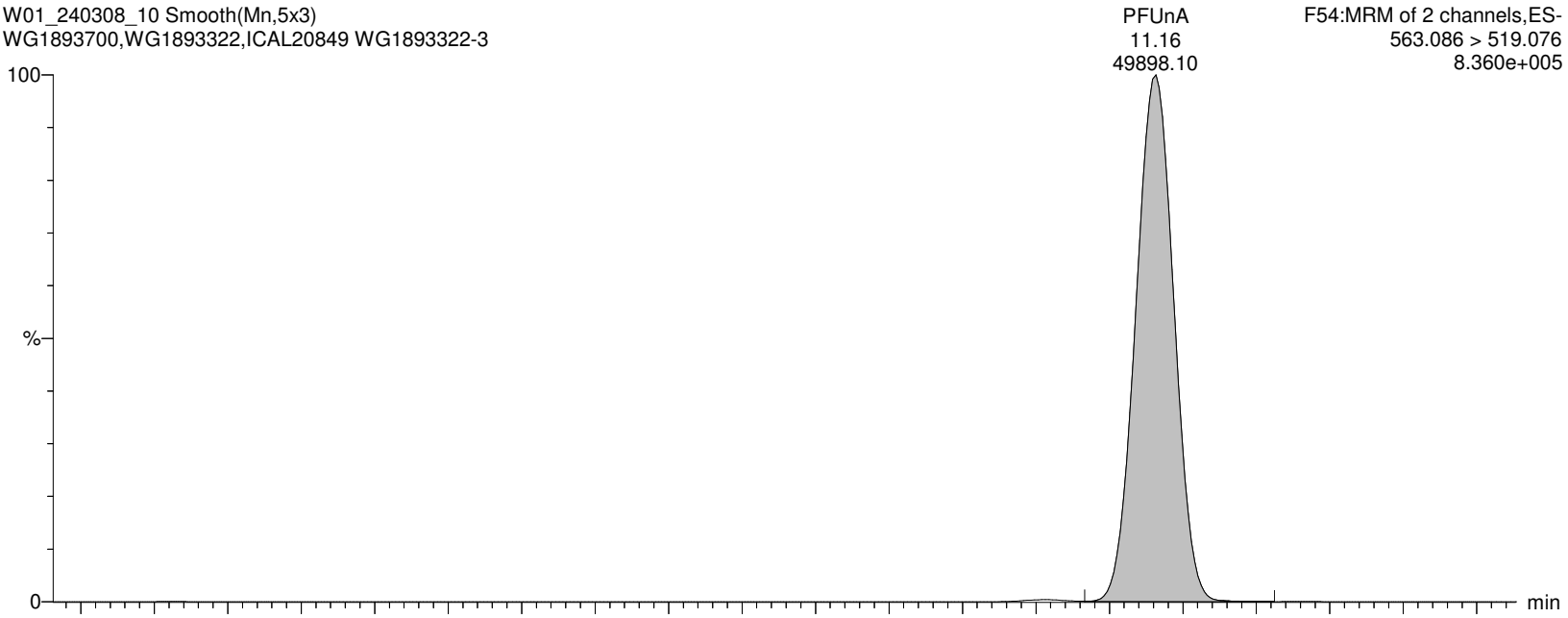
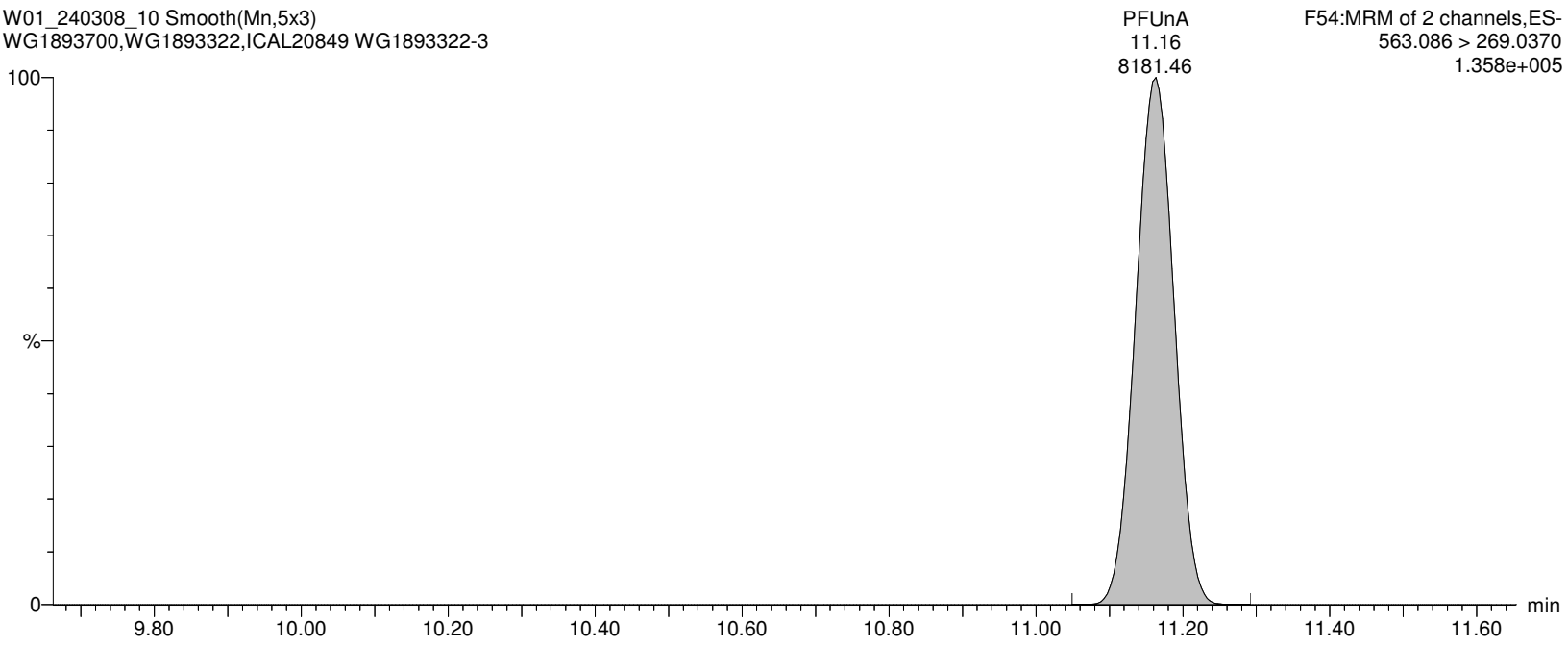
PFUnA





all concentration units in (ng/mL)

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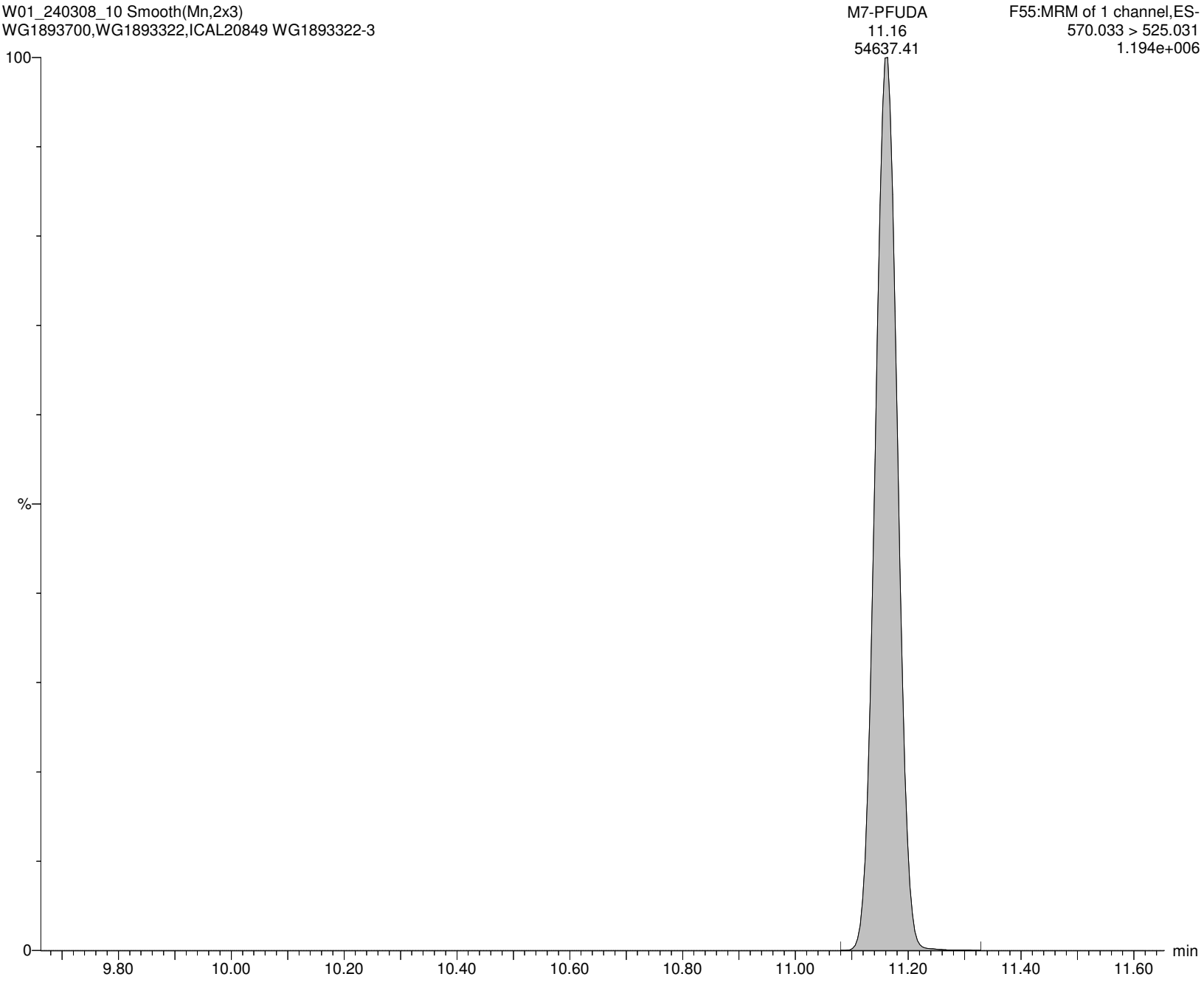
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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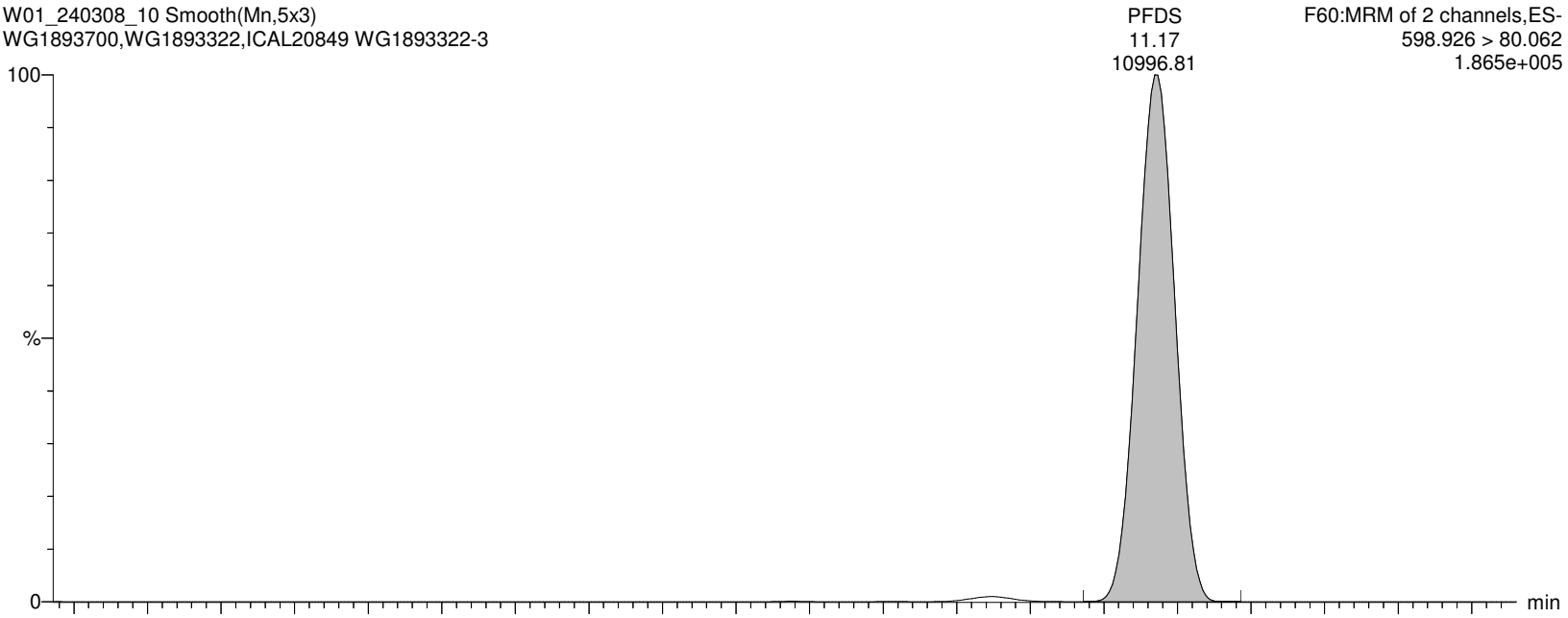

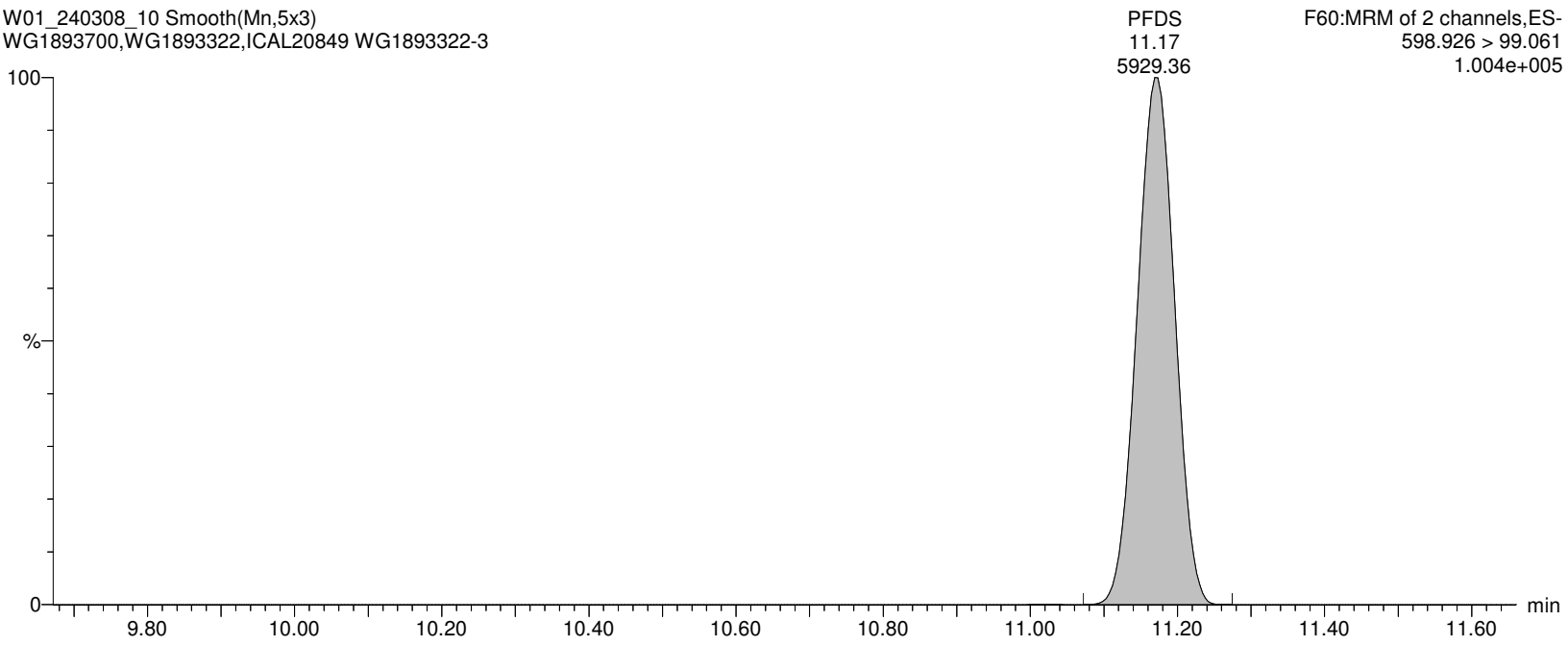

all concentration units in (ng/mL)

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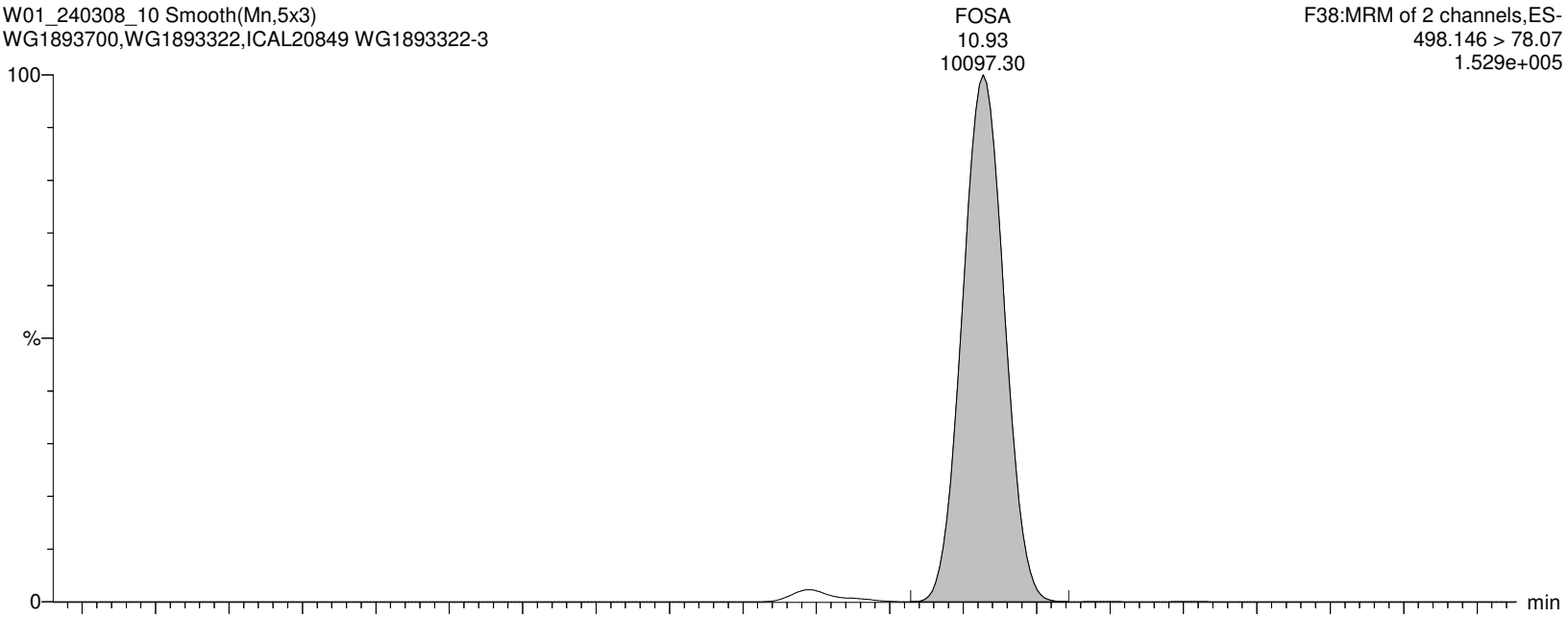

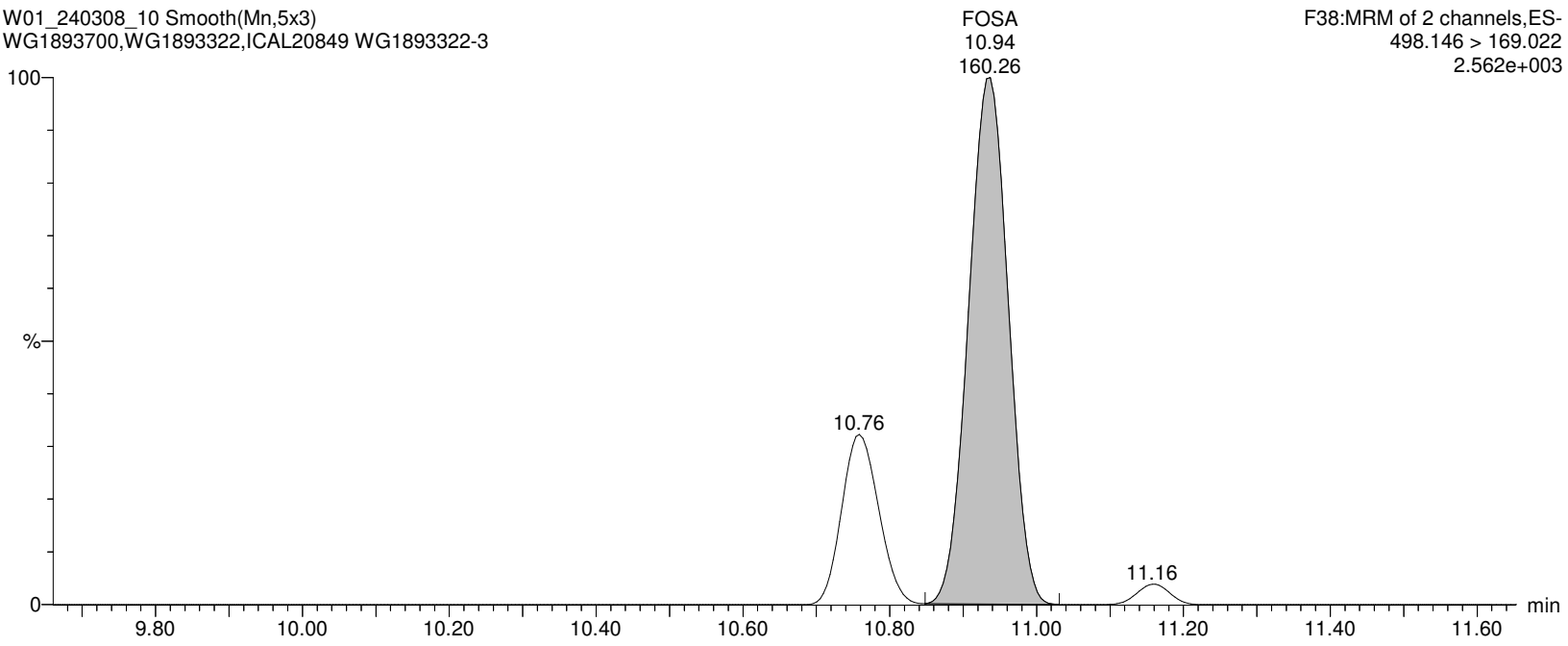

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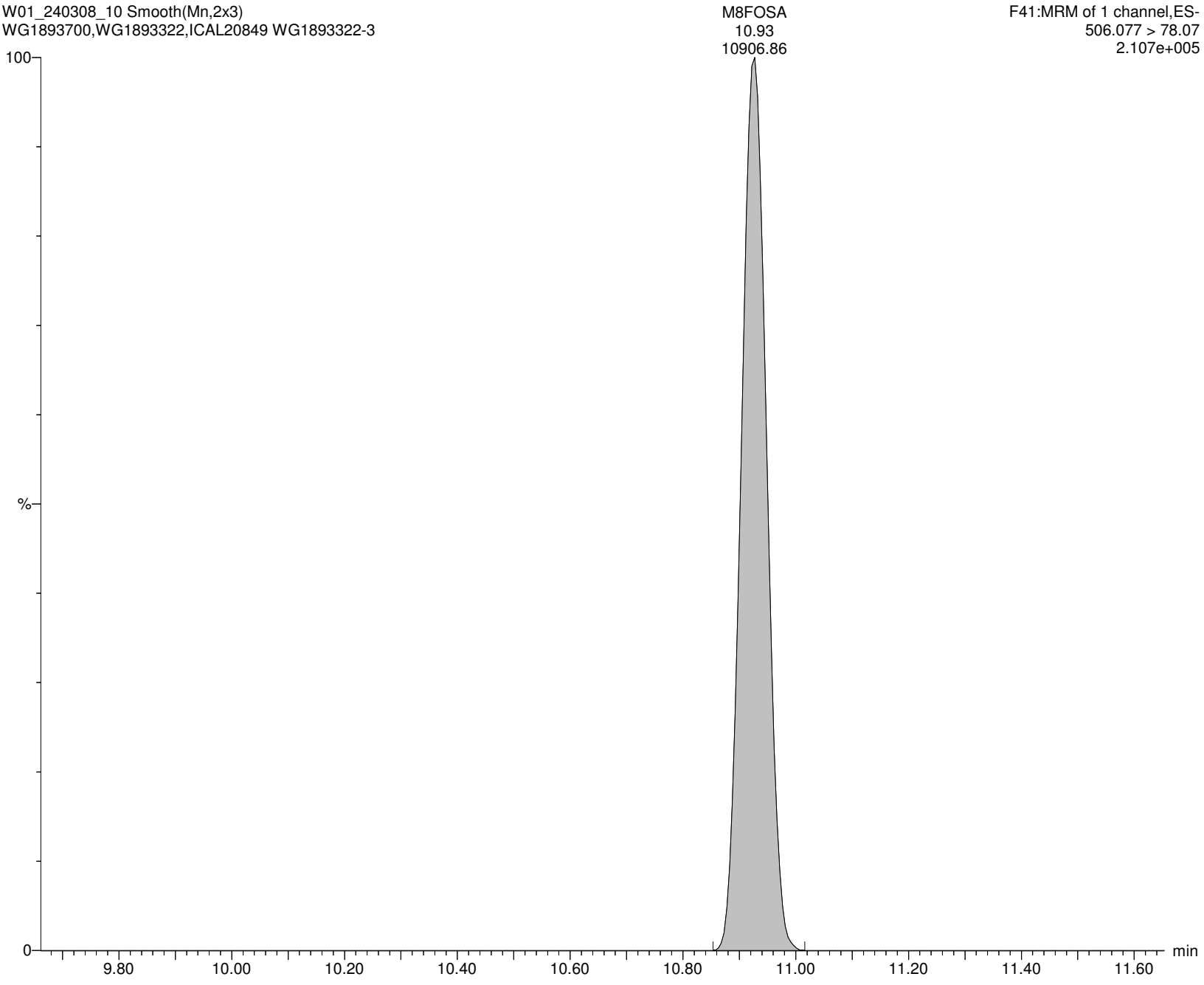

all concentration units in (ng/mL)

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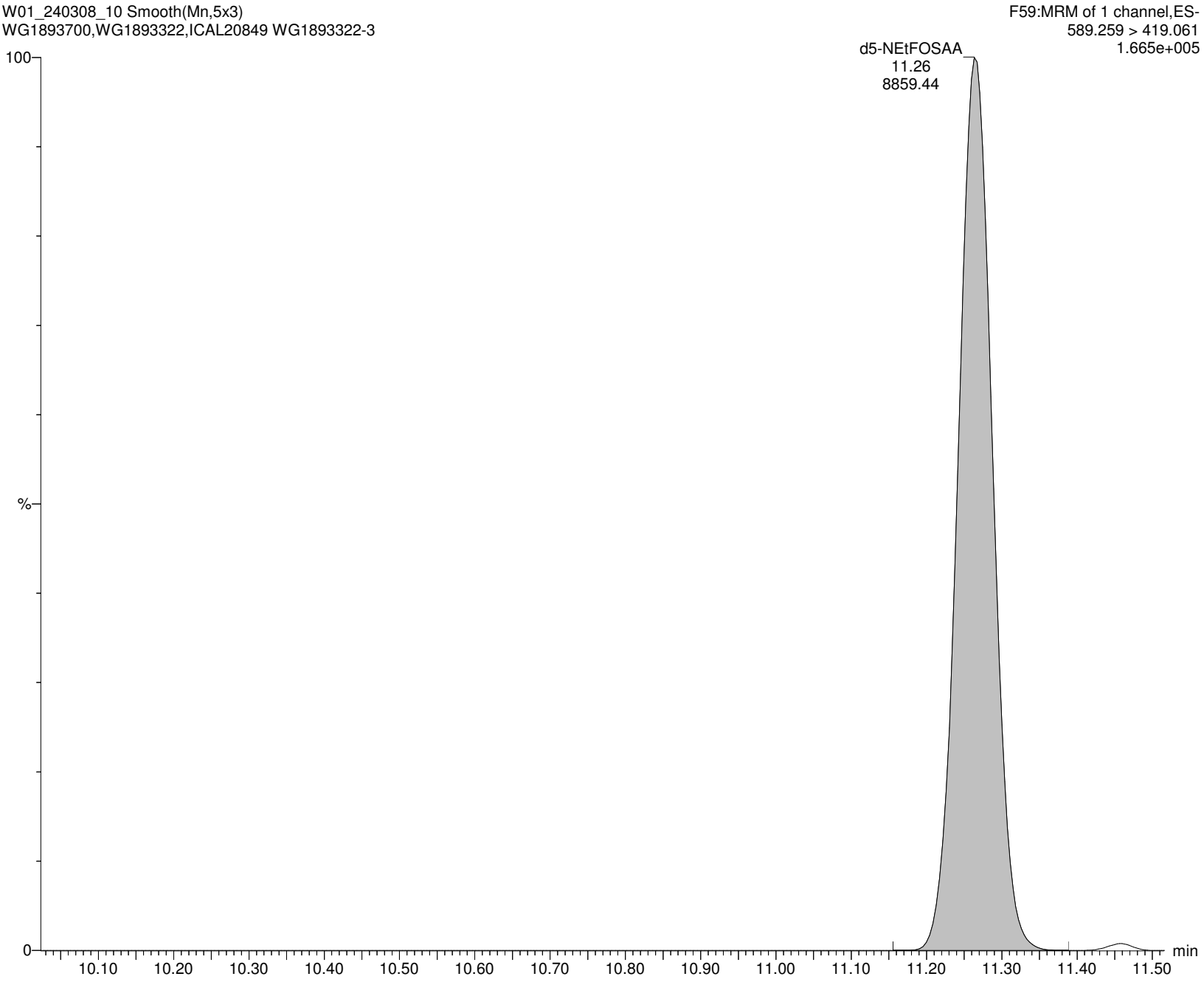
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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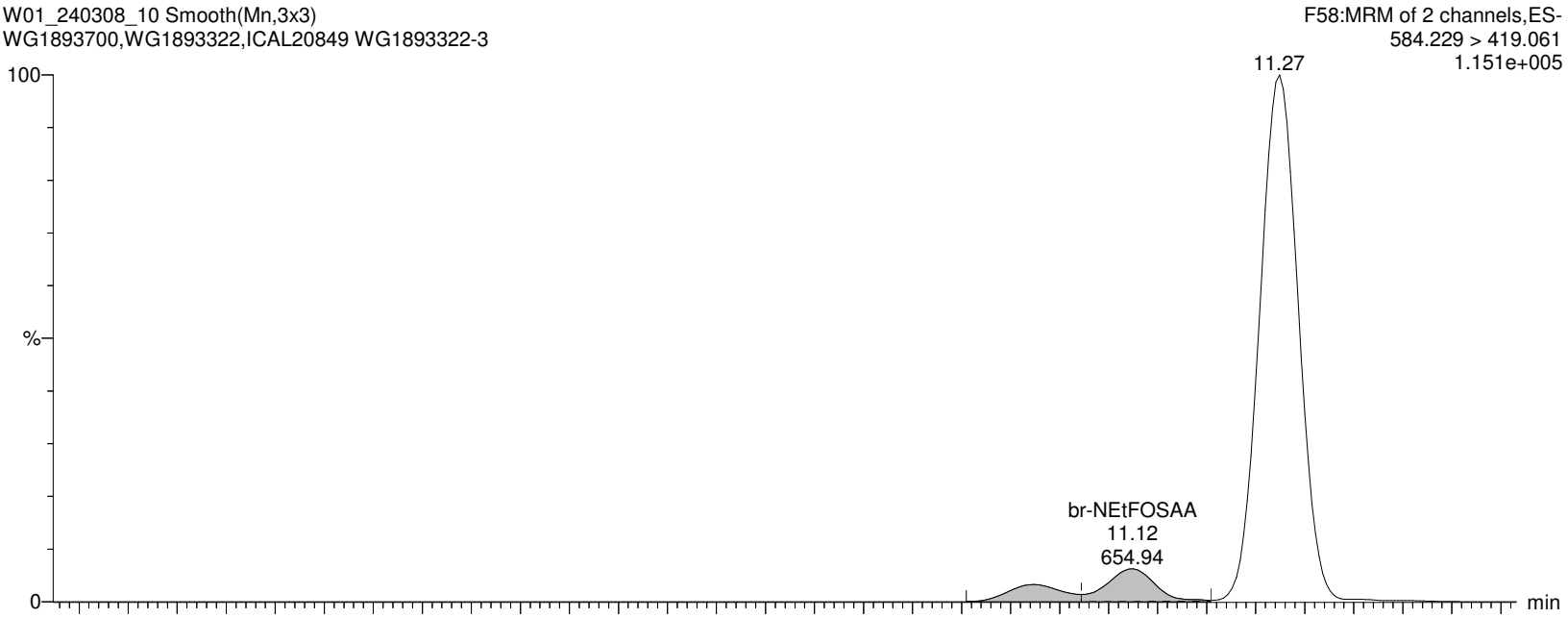

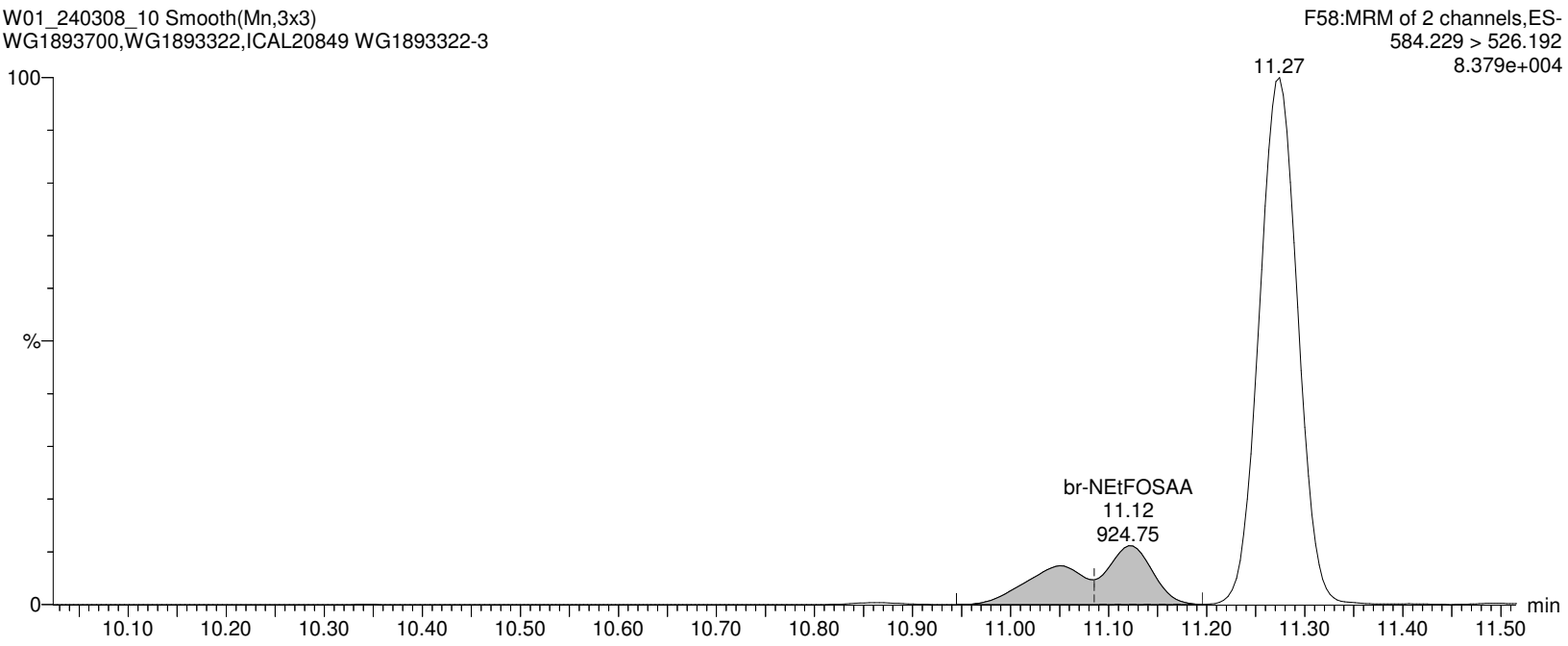

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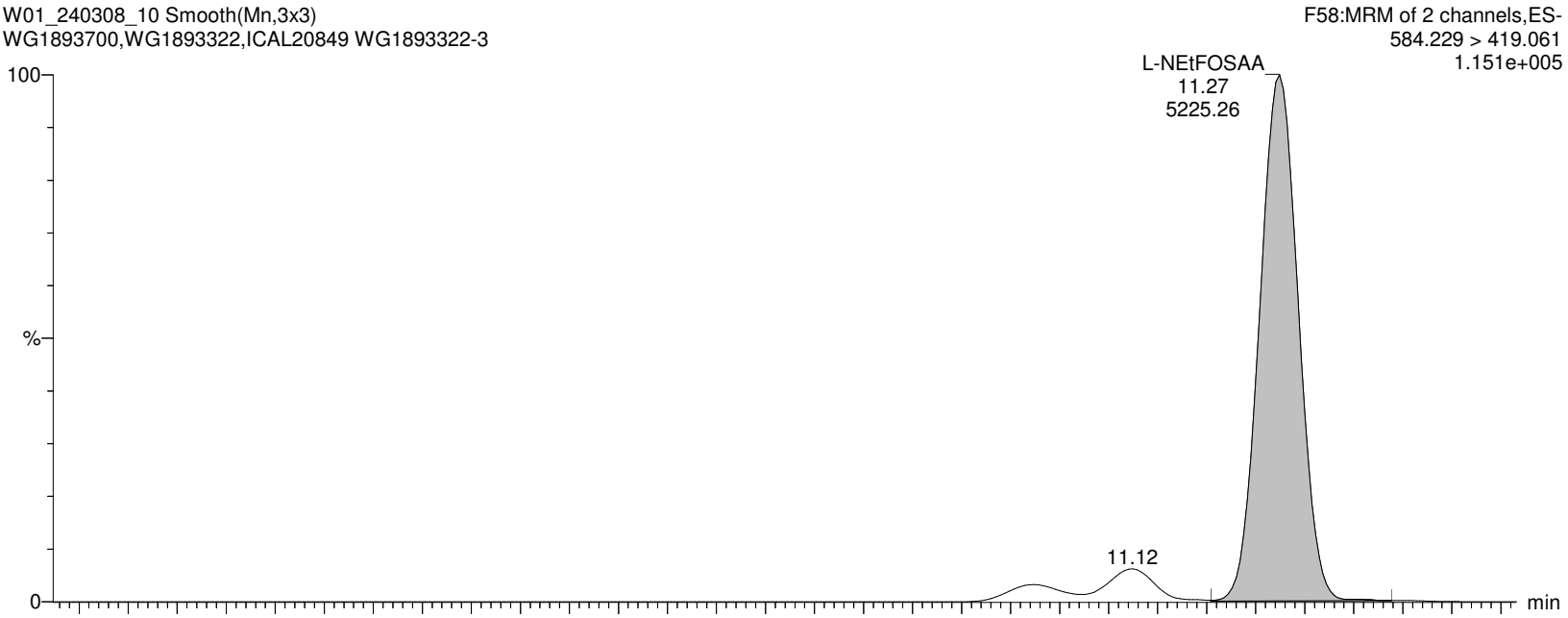
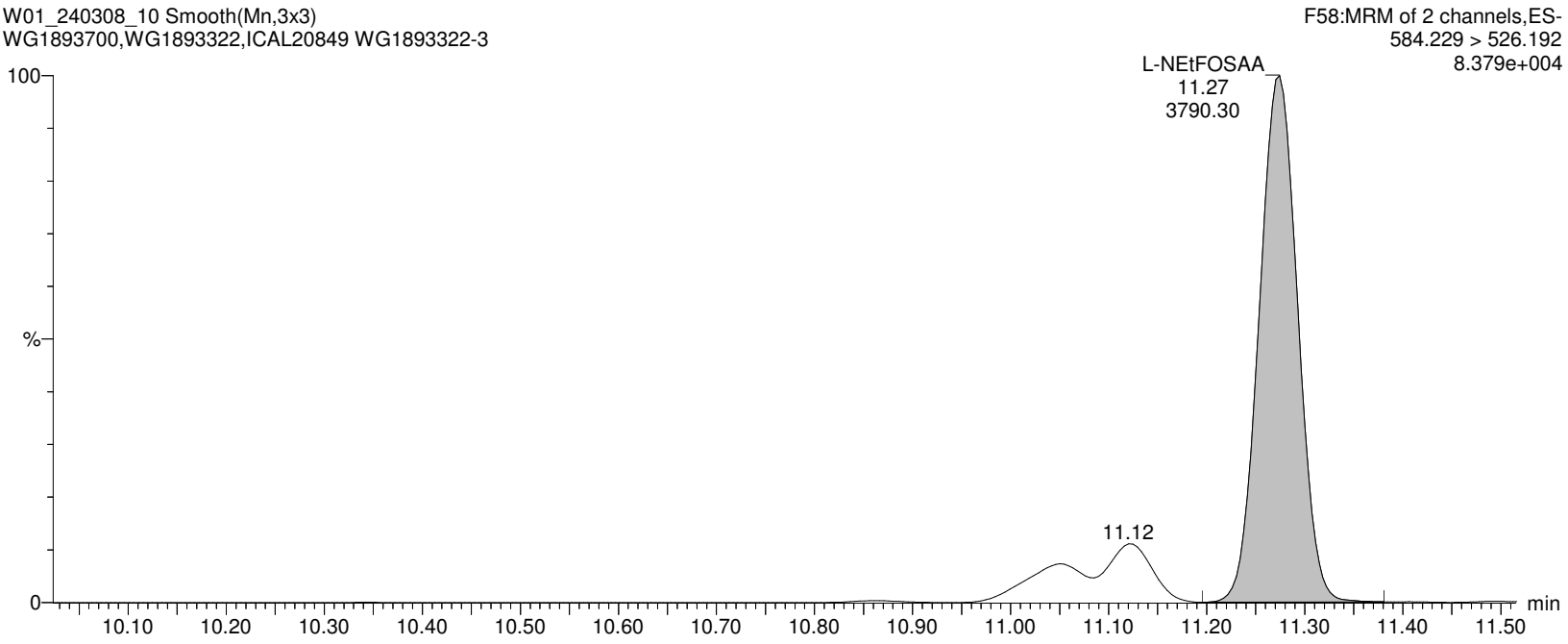
L-NEtFOSAA





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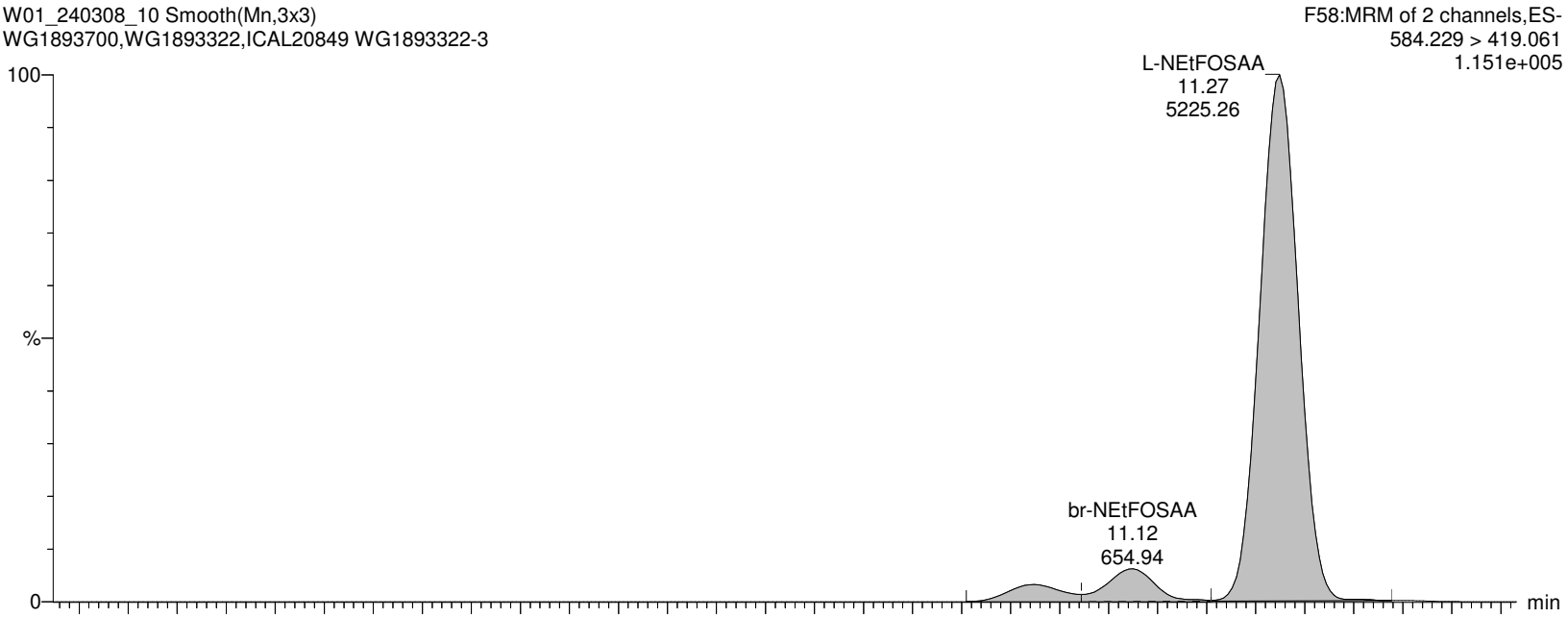

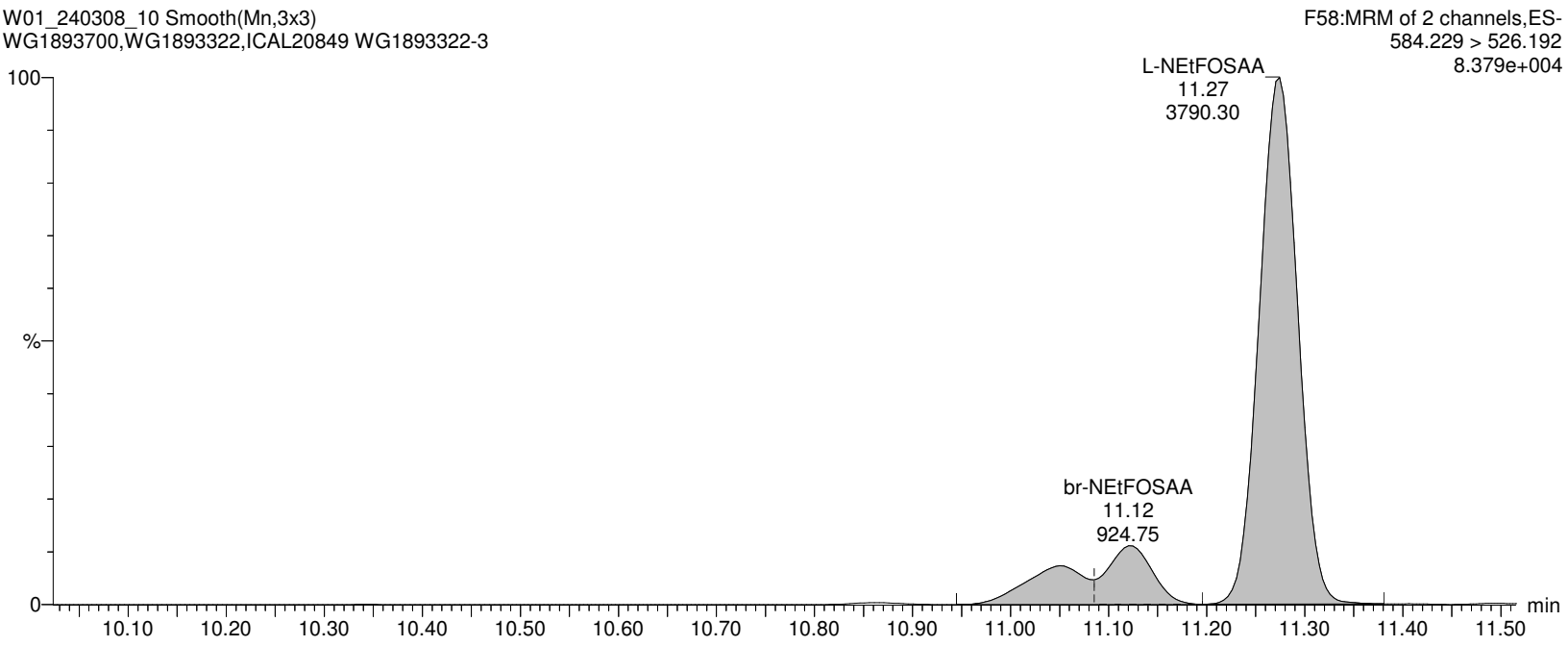

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:40 Eastern Standard Time

Name: W01_240308_10
ID: WG1893322-3
Date: 08-Mar-2024
Time: 07:32:43
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
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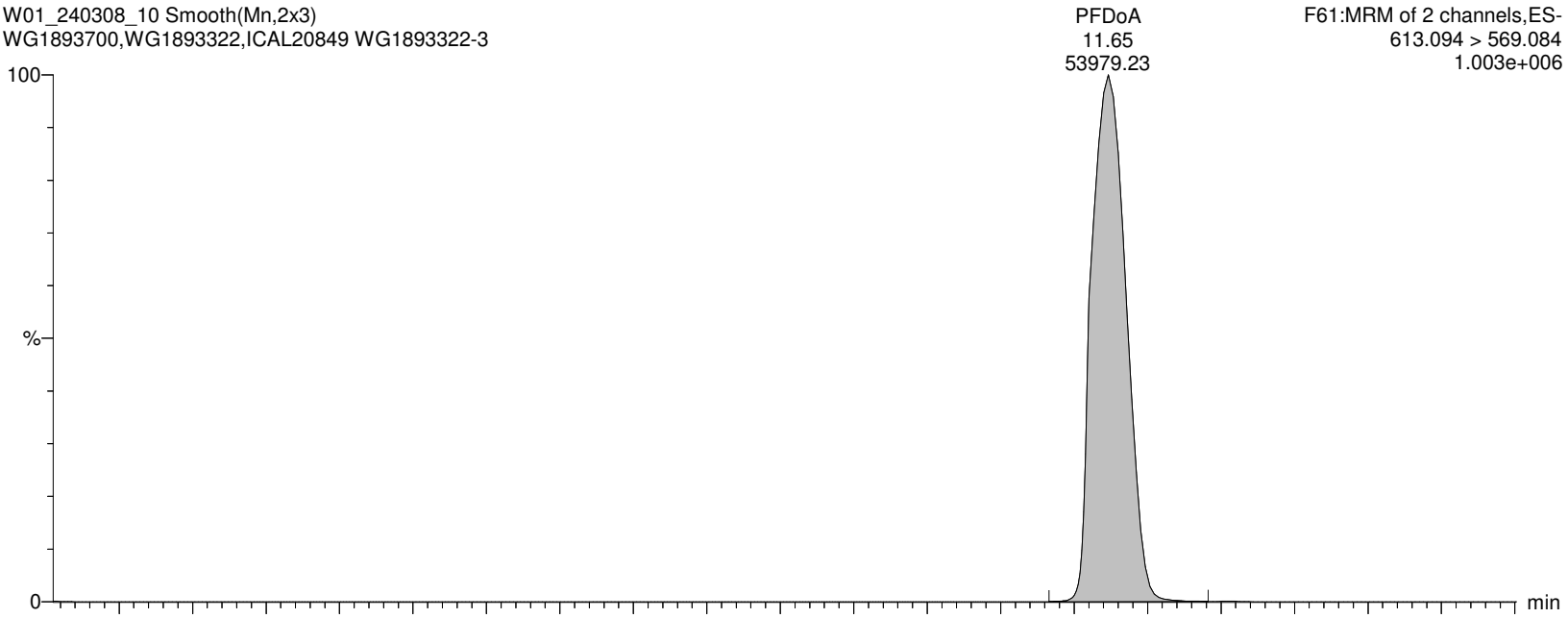

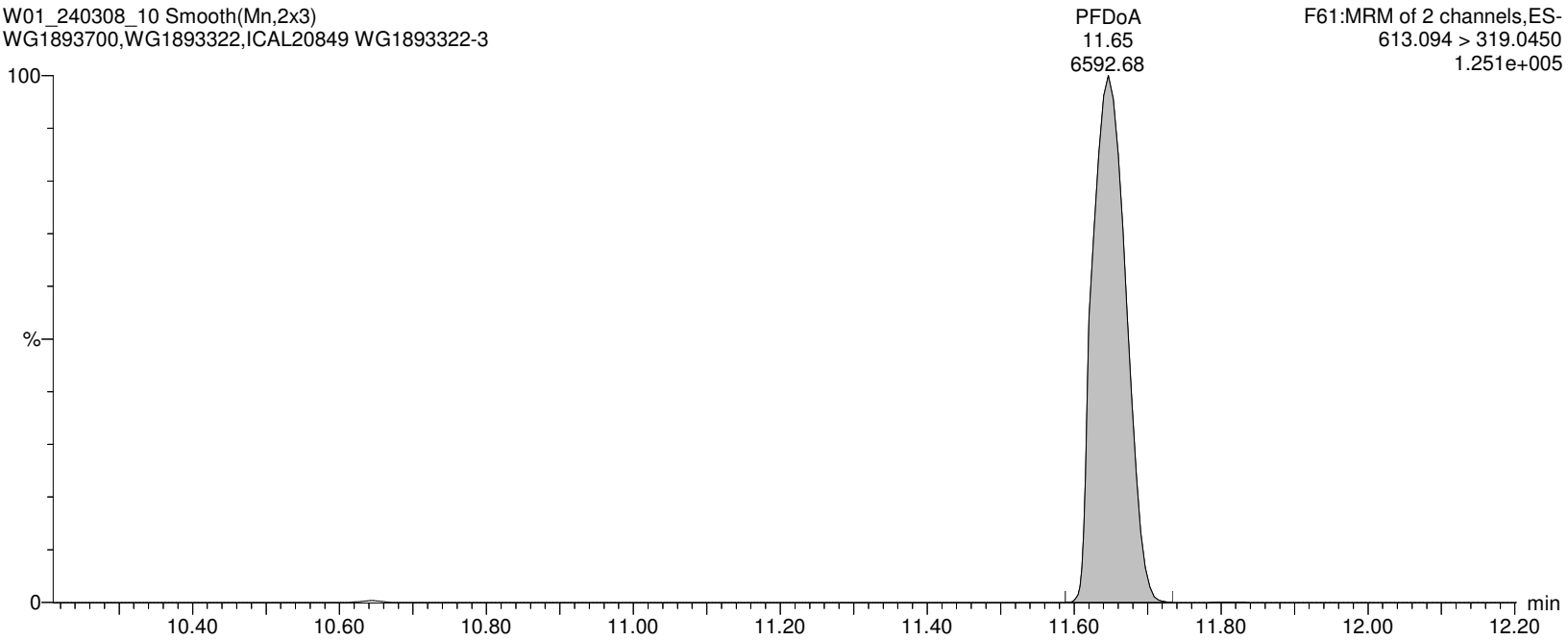

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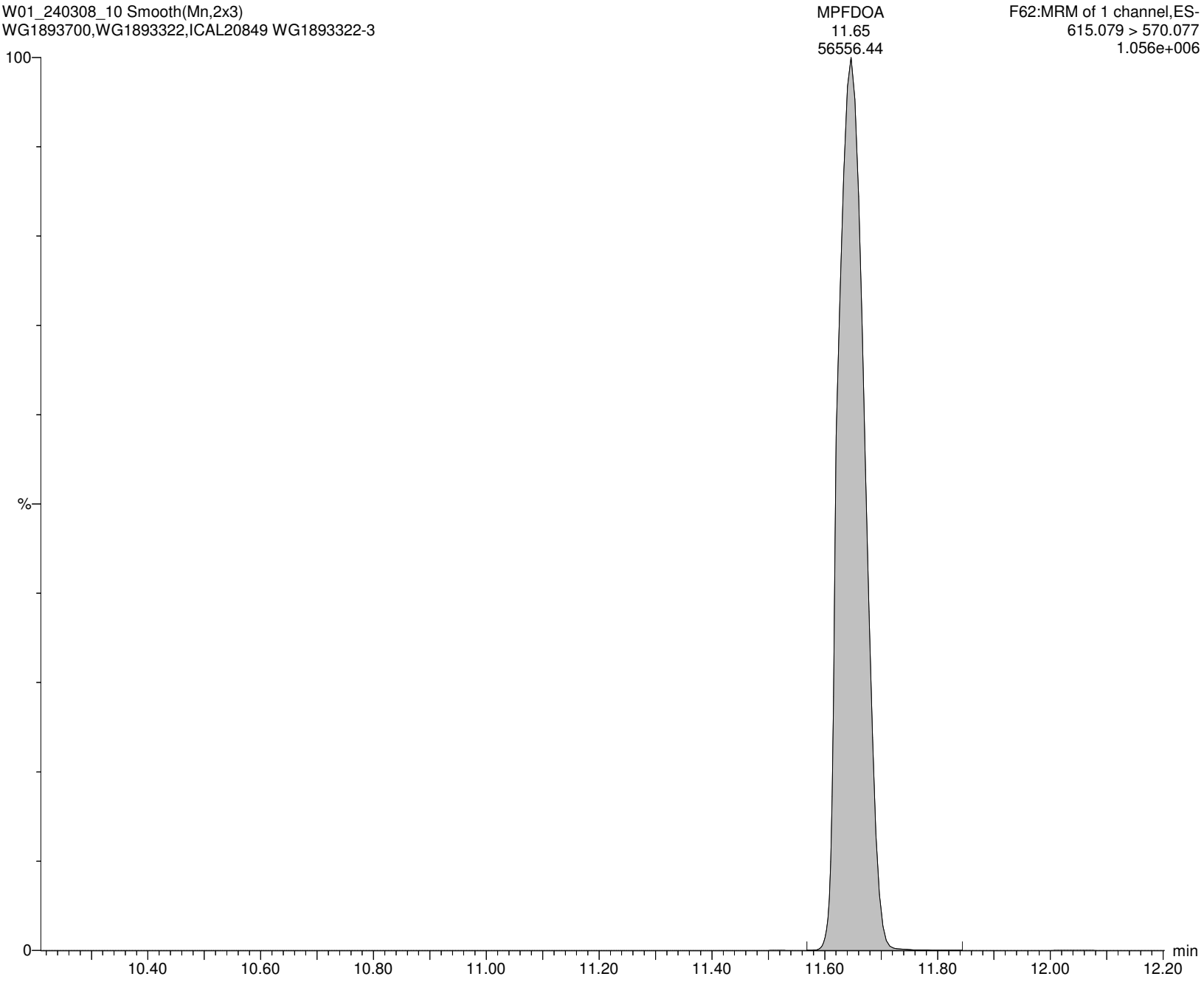

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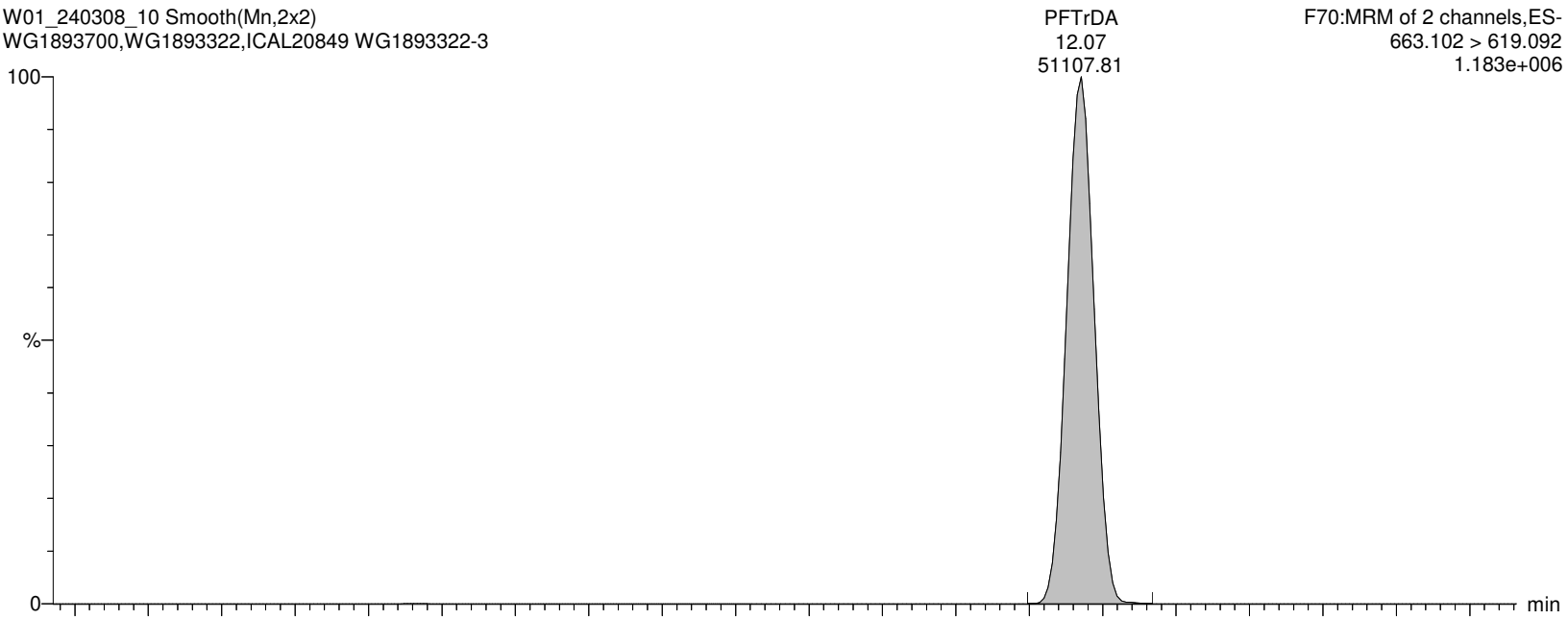

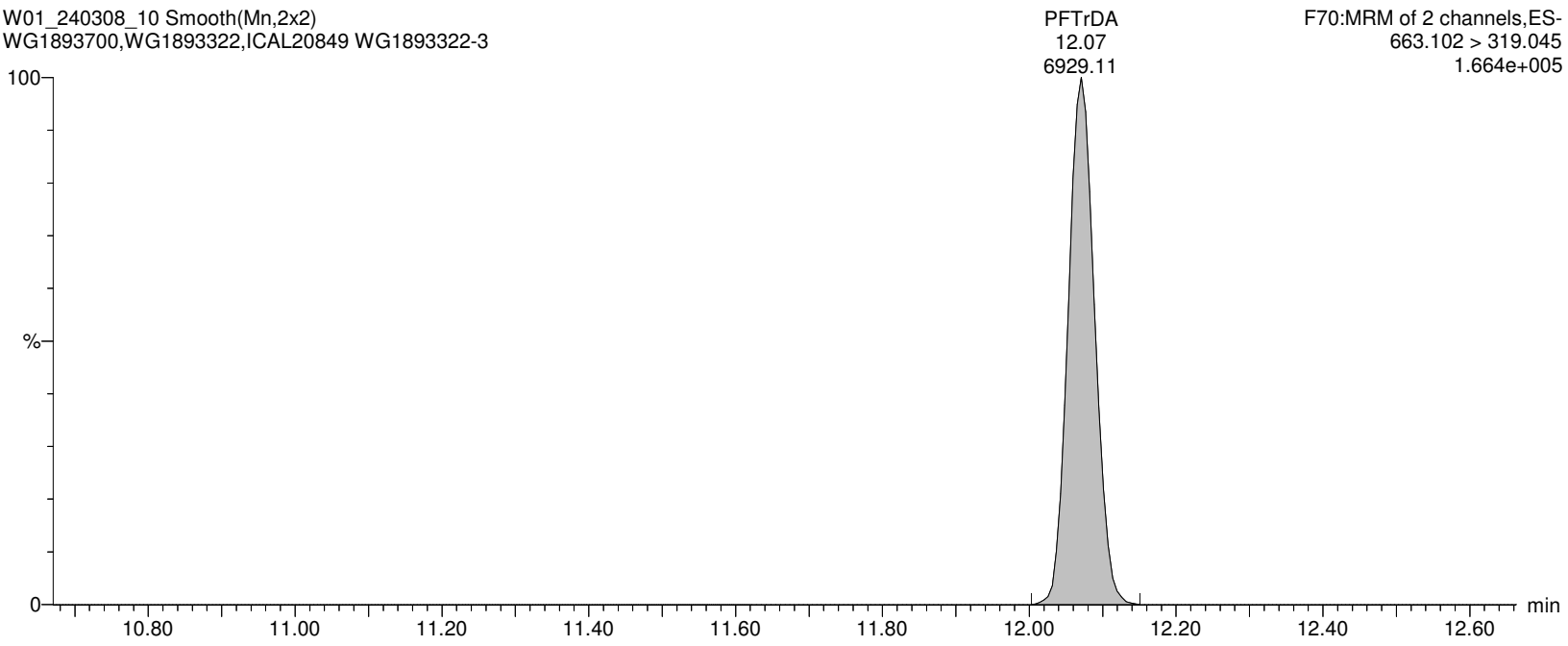

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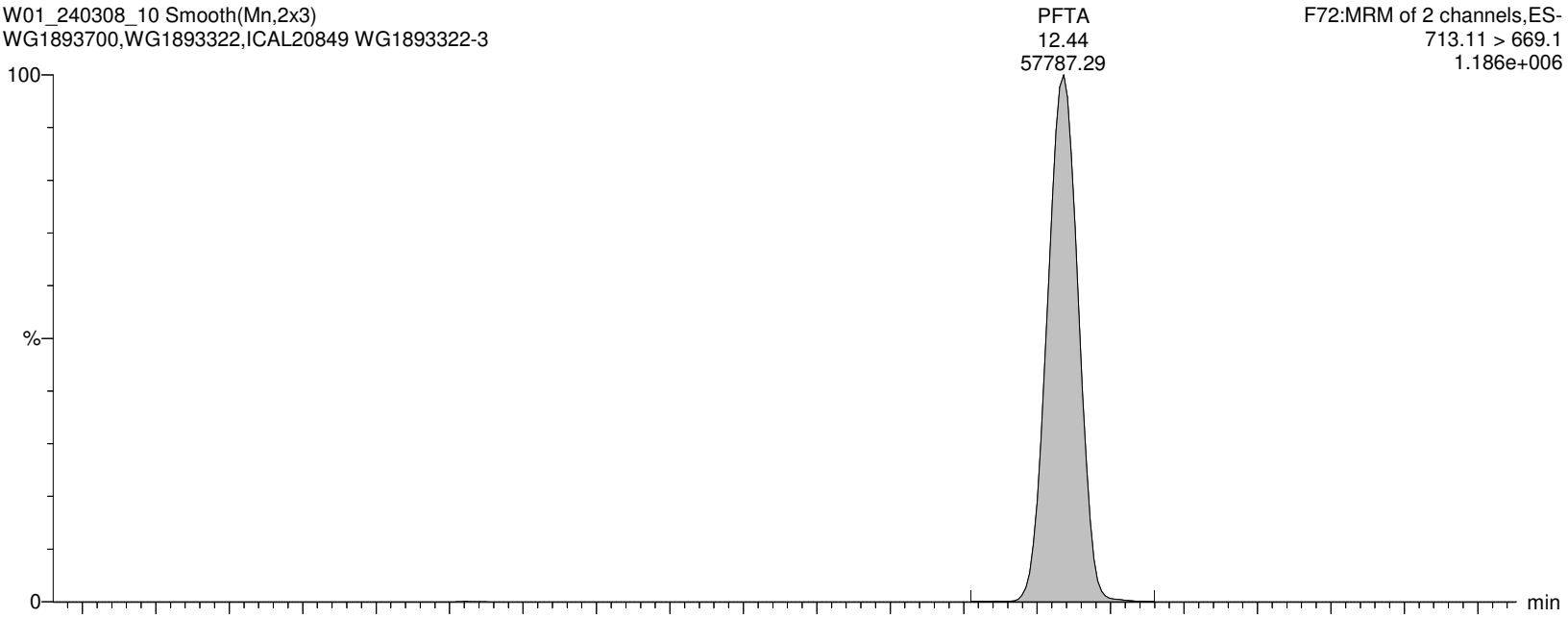

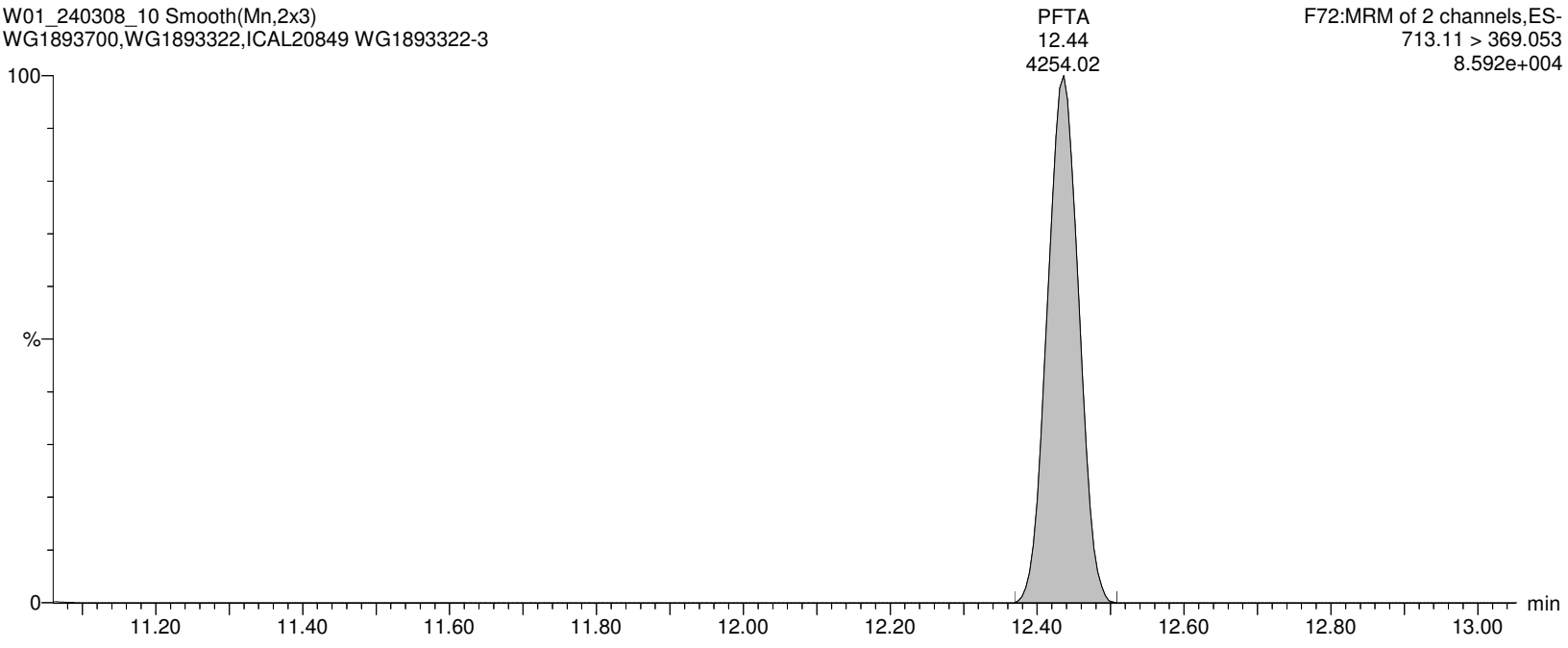

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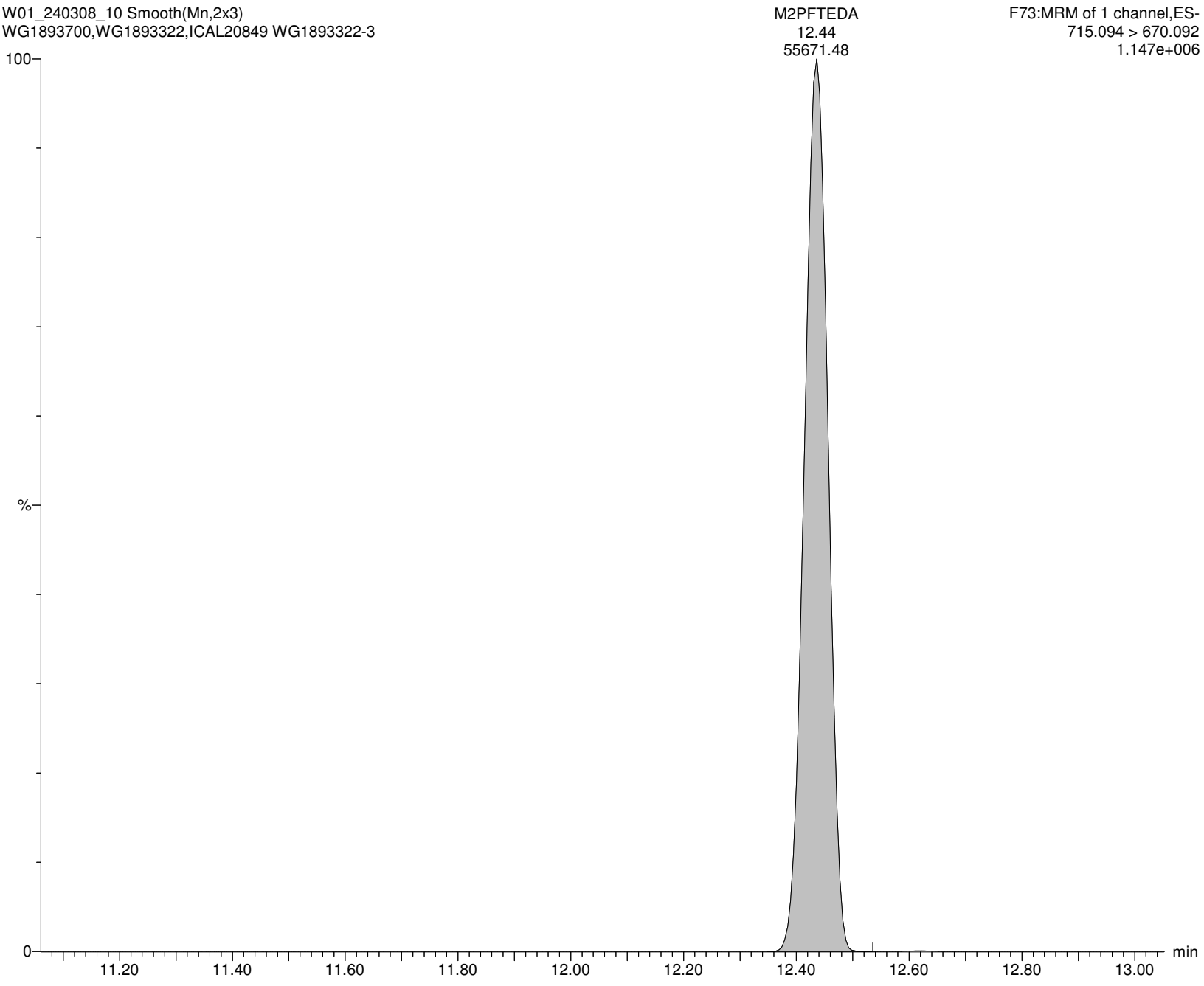

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ID: WG1893322-4
Name: W01_240308_11
Date: 08-Mar-2024
Time: 07:49:17
Description: WG1893700,WG1893322,ICAL20849
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	213.032 > 169.022	40568		11.728		na	117.3
2	M3PFBA	INT STD	2.23	216.009 > 171.999	37106		4.838		na	48.4
3	MPFBA	INT STD	2.23	217.001 > 171.999	38189		9.045		na	90.5
4	PFPeA	2706-90-3	5.13	263.039 > 219.03	24075		10.862		na	108.6
5	M5PFPEA	INT STD	5.13	268.001 > 222.999	21924		4.973		na	49.7
6	PFBS	375-73-5	5.78	299.092 > 80.062	8416		8.910	1.89	NO	100.4
7	M3PFBS	INT STD	5.78	302.069 > 80.062	8525		7.458		na	80.0
8	4:2FTS	757124-72-4	6.93	327.146 > 307.139	4294		8.065	1.63	NO	86.1
9	M2-4:2FTS	INT STD	6.93	329.13 > 309.124	4929		14.634		na	156.0
10	PFHxA	307-24-4	7.01	313.047 > 269.037	28468		11.847	13.11	NO	118.5
11	M5PFHxA	INT STD	7.01	318.009 > 273.007	25304		7.151		na	71.5
12	PFPeS	2706-91-4	7.32	349.1 > 80.062	7936		7.565	1.63	NO	80.4
13	PFHpA	375-85-9	8.26	363.055 > 319.045	32184		11.307	4.37	NO	113.1
14	M4PFHpA	INT STD	8.26	367.025 > 322.022	28327		7.524		na	75.2
15	br-PFHxS	355-46-4	8.19	399.107 > 80.062	1859	M5,M7	1.828	2.33	NO	105.7
16	L-PFHxS	355-46-4	8.41	399.107 > 80.062	7488		7.116	1.52	NO	96.0
17	PFHxS	355-46-4		399.107 > 80.062	9348		8.944		na	
18	M3PFHxS	INT STD	8.41	402.084 > 80.062	9189		8.358		na	88.2
19	br-PFOA	335-67-1	8.97	413.063 > 369.053	1052	M7	0.270	2.31	NO	2.7
20	L-PFOA	335-67-1	9.19	413.063 > 369.053	56911		14.594	8.12	NO	145.9
21	PFOA	335-67-1		413.063 > 369.053	57963		14.864		na	
22	M8PFOA	INT STD	9.19	421.002 > 376.	37930		9.272		na	92.7
23	M2PFOA	INT STD	9.19	415.048 > 370.045	40418		2.723		na	27.2
24	6:2FTS	27619-97-2	9.15	427.161 > 407.155	5998		9.376	2.93	NO	98.6
25	M2-6:2FTS	INT STD	9.15	429.146 > 409.14	7252		18.740		na	197.1
26	PFHpS	375-92-8	9.28	449.115 > 80.062	9658		9.726	1.66	NO	102.1
27	PFNA	375-95-1	9.94	463.071 > 419.061	44659		10.389	5.10	NO	103.9
28	M9PFNA	INT STD	9.94	472.002 > 427.	42664		10.039		na	100.4
29	br-PFOS	1763-23-1	9.73	499.123 > 80.062	6526	M5,M7	4.659	3.93	NO	237.7
30	L-PFOS	1763-23-1	9.99	499.123 > 80.062	15727	M4,M7	13.135	1.74	NO	179.4
31	PFOS	1763-23-1		499.123 > 80.062	22253		17.794		na	
32	M4PFOS	INT STD	9.99	503.093 > 80.062	12034		3.249		na	33.8
33	M8PFOS	INT STD	9.99	507.062 > 80.062	10731		8.358		na	87.2
34	PFDA	335-76-2	10.58	513.078 > 469.069	40107		10.194	3.94	NO	101.9
35	M2PFDA	INT STD	10.58	515.063 > 470.061	45992		3.428		na	34.3
36	M6PFDA	INT STD	10.58	519.033 > 474.03	40424		8.816		na	88.2
37	8:2FTS	39108-34-4	10.58	527.177 > 507.171	6332		9.317	2.37	NO	97.1
38	M2-8:2FTS	INT STD	10.58	529.162 > 509.155	8048		19.668		na	204.9
39	PFNS	68259-12-1	10.61	549.131 > 80.062	10257		8.629	2.08	NO	89.7

all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.22 > 419.061	9066		12.873		na	128.7
41	br-NMeFOSAA	2355-31-9	10.80	570.202 > 419.061	666	M5,M7	2.484	1.16	NO	103.5
42	L-NMeFOSAA	2355-31-9	10.96	570.202 > 419.061	4796		7.685	2.10	NO	101.1
43	NMeFOSAA	2355-31-9		570.202 > 419.061	5461		10.169		na	
44	PFUnA	2058-94-8	11.15	563.086 > 519.076	46186		8.371	6.10	NO	83.7
45	M7-PFUDA	INT STD	11.15	570.033 > 525.031	53291		10.667		na	106.7
46	PFDS	335-77-3	11.16	598.926 > 80.062	9550		8.910	1.65	NO	92.3
47	FOSA	754-91-6	10.91	498.146 > 78.07	12832		7.965	46.94	NO	79.7
48	M8FOSA	INT STD	10.91	506.077 > 78.07	14595		4.329		na	43.3
49	d5-NEtFOSAA	INT STD	11.25	589.259 > 419.061	9488		14.294		na	142.9
50	br-NEtFOSAA	2991-50-6	11.10	584.229 > 419.061	633	M5,M7	1.769	0.65	NO	78.6
51	L-NEtFOSAA	2991-50-6	11.26	584.229 > 419.061	5169		6.794	1.36	NO	87.7
52	NEtFOSAA	2991-50-6		584.229 > 419.061	5802		8.564		na	
53	PFDoA	307-55-1	11.63	613.094 > 569.084	49237		8.578	6.96	NO	85.8
54	MPFDOA	INT STD	11.63	615.079 > 570.077	53176		9.484		na	94.8
55	PFTrDA	72629-94-8	12.06	663.102 > 619.092	49161		11.959	8.60	NO	119.6
56	PFTA	376-06-7	12.44	713.11 > 669.1	55198		9.002	13.33	NO	90.0
57	M2PFTEDA	INT STD	12.44	715.094 > 670.092	55316		10.939		na	109.4

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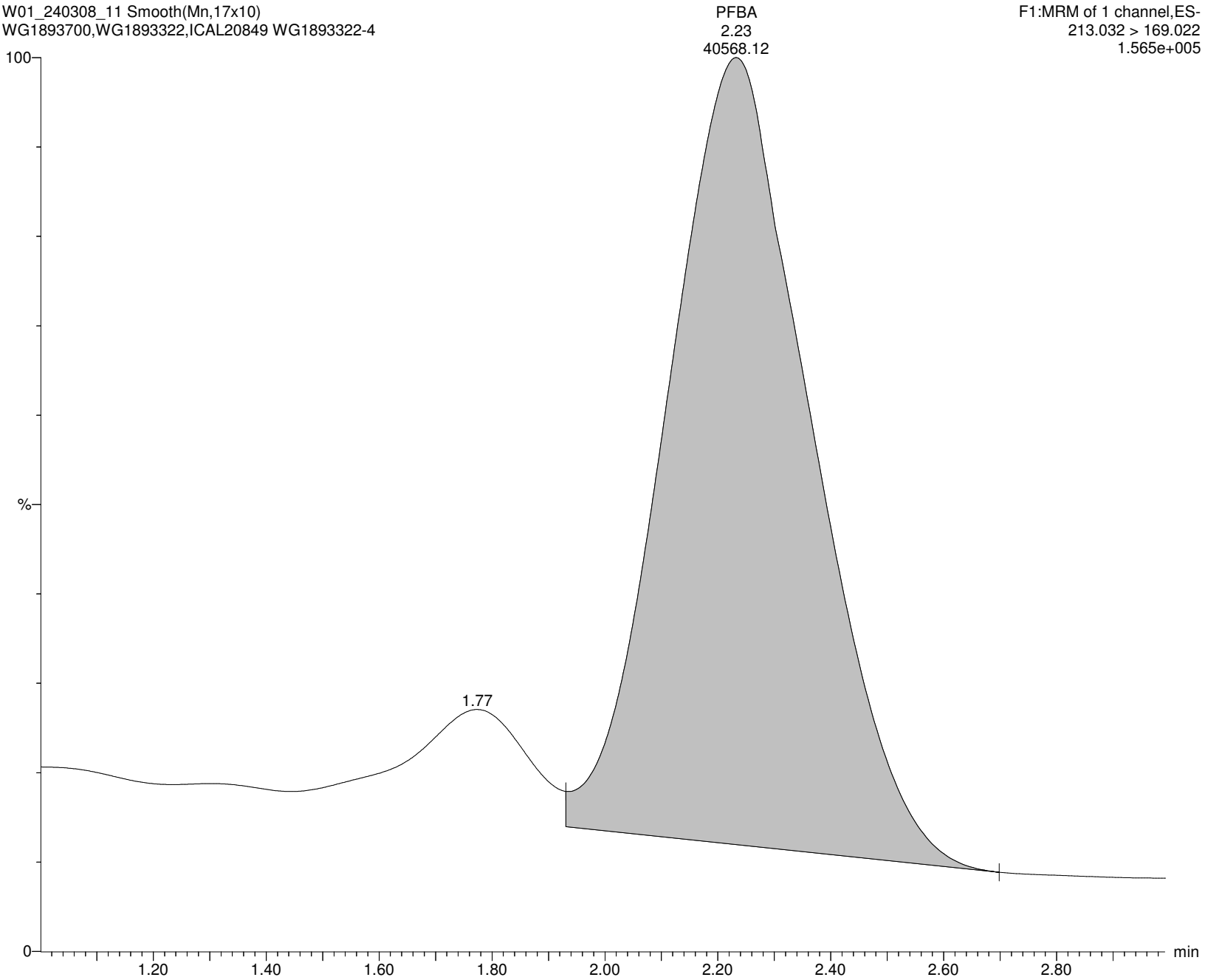

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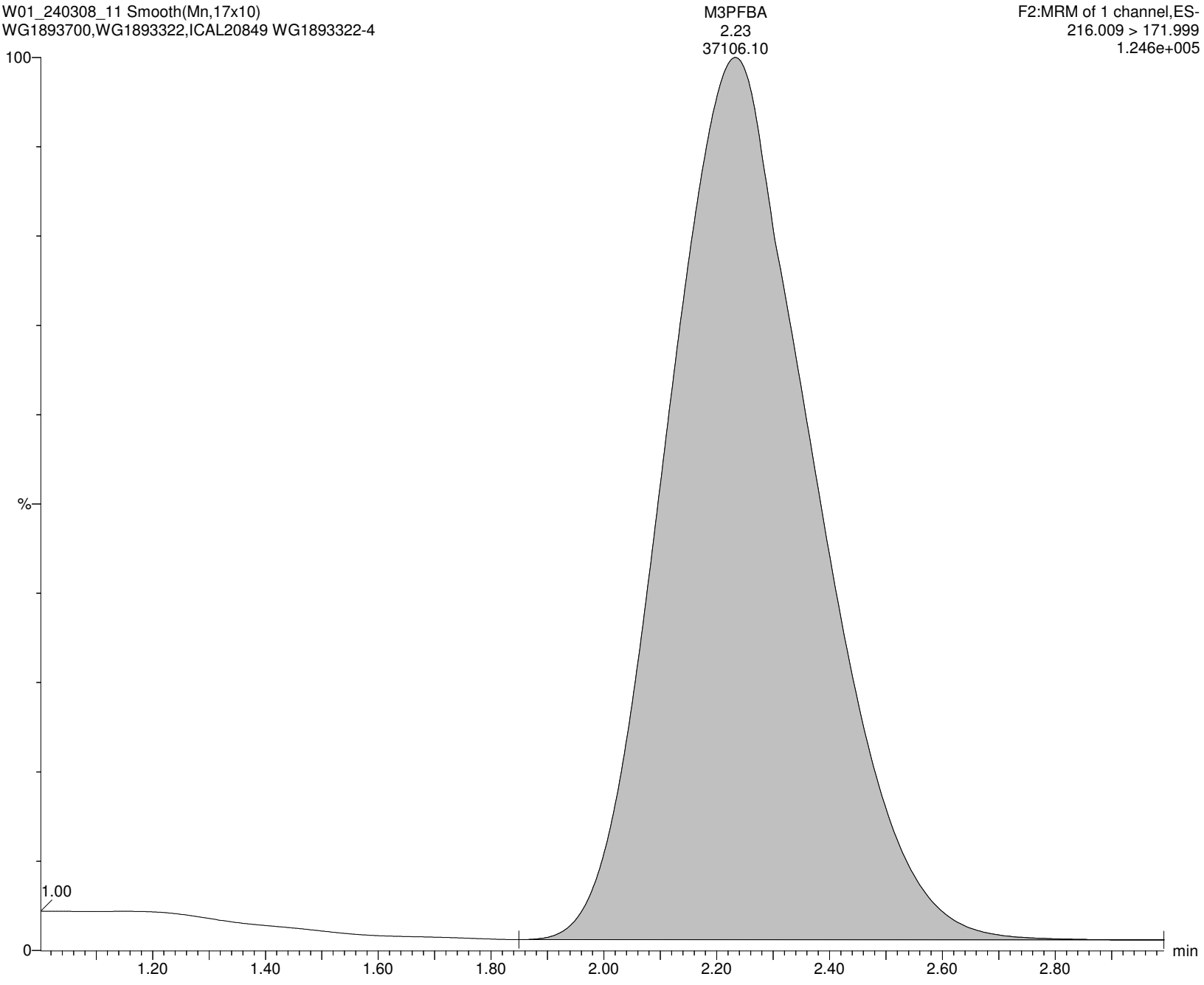

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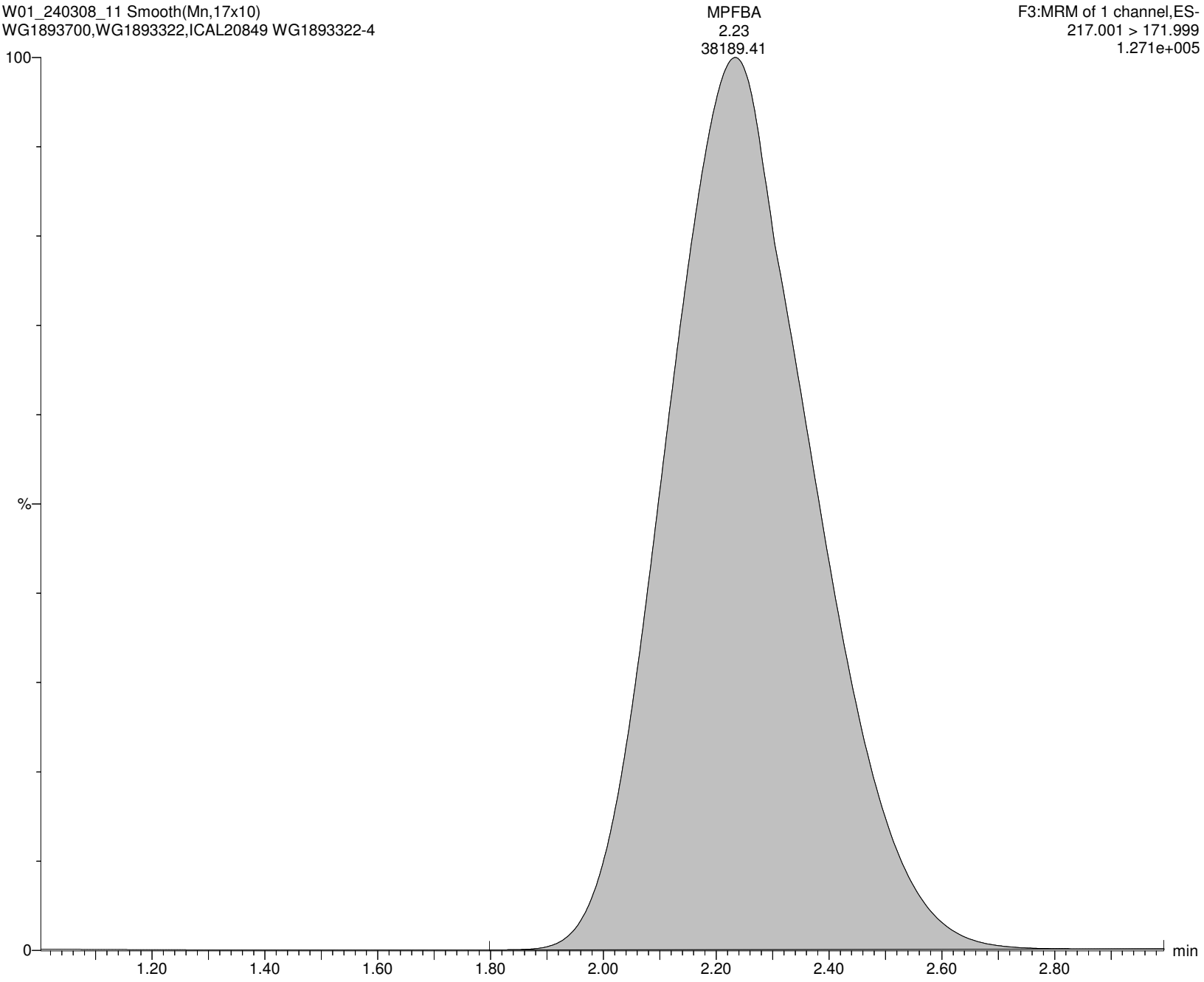

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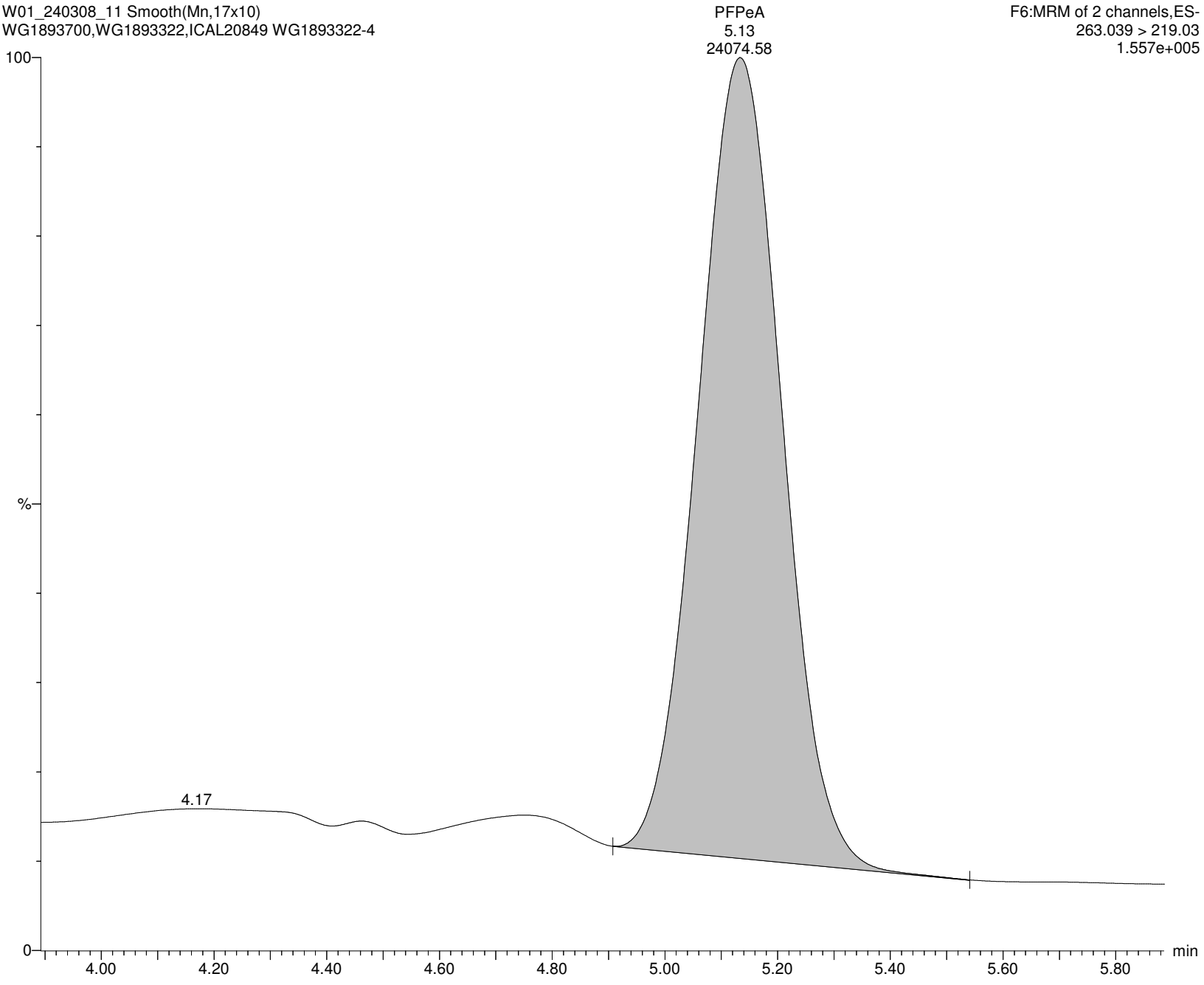
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:41 Eastern Standard Time

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ID: WG1893322-4
Date: 08-Mar-2024
Time: 07:49:17
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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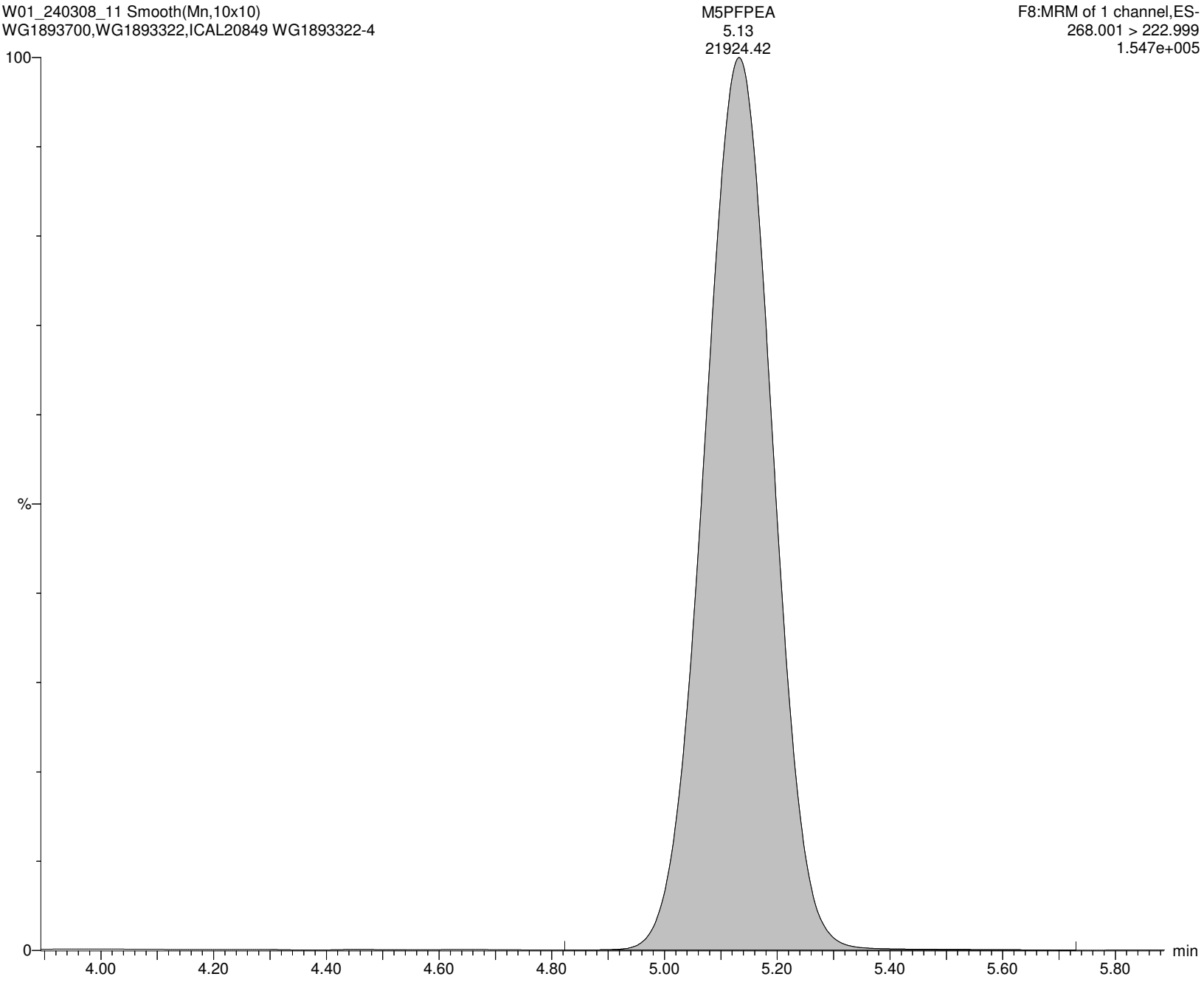

all concentration units in (ng/mL)

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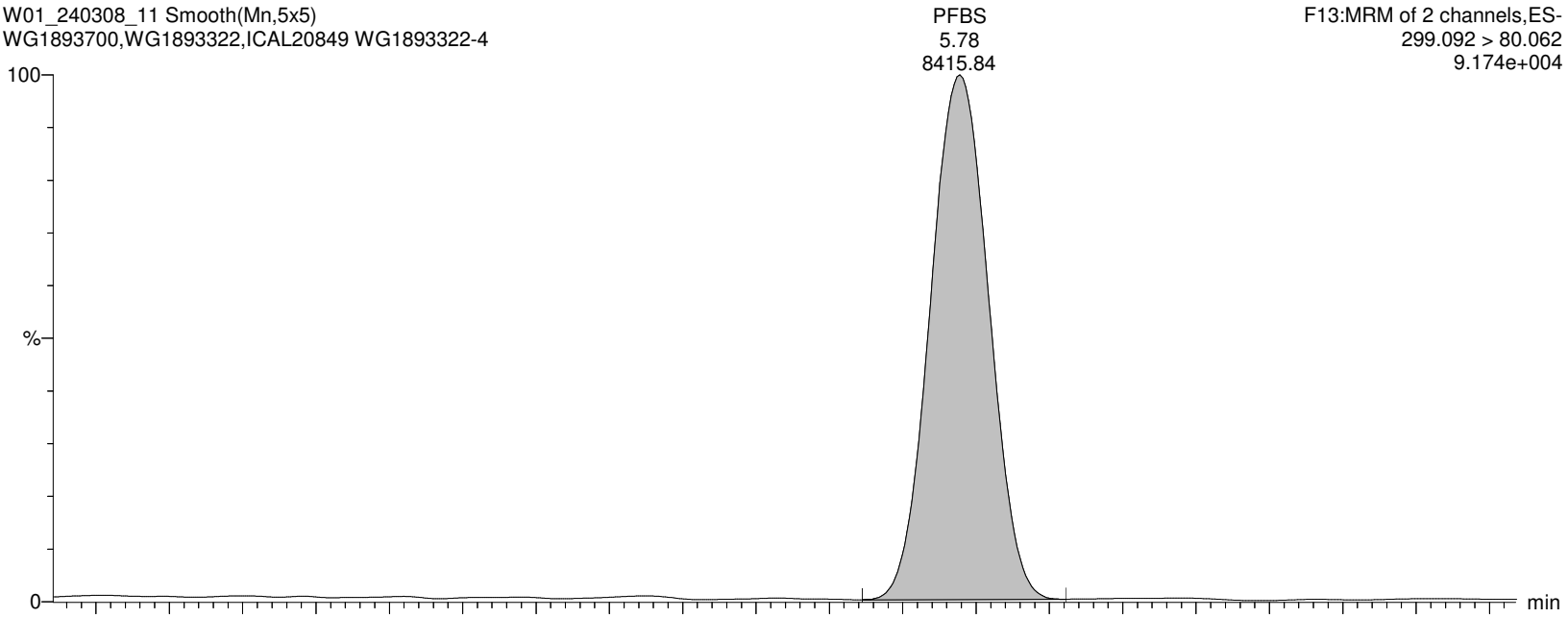

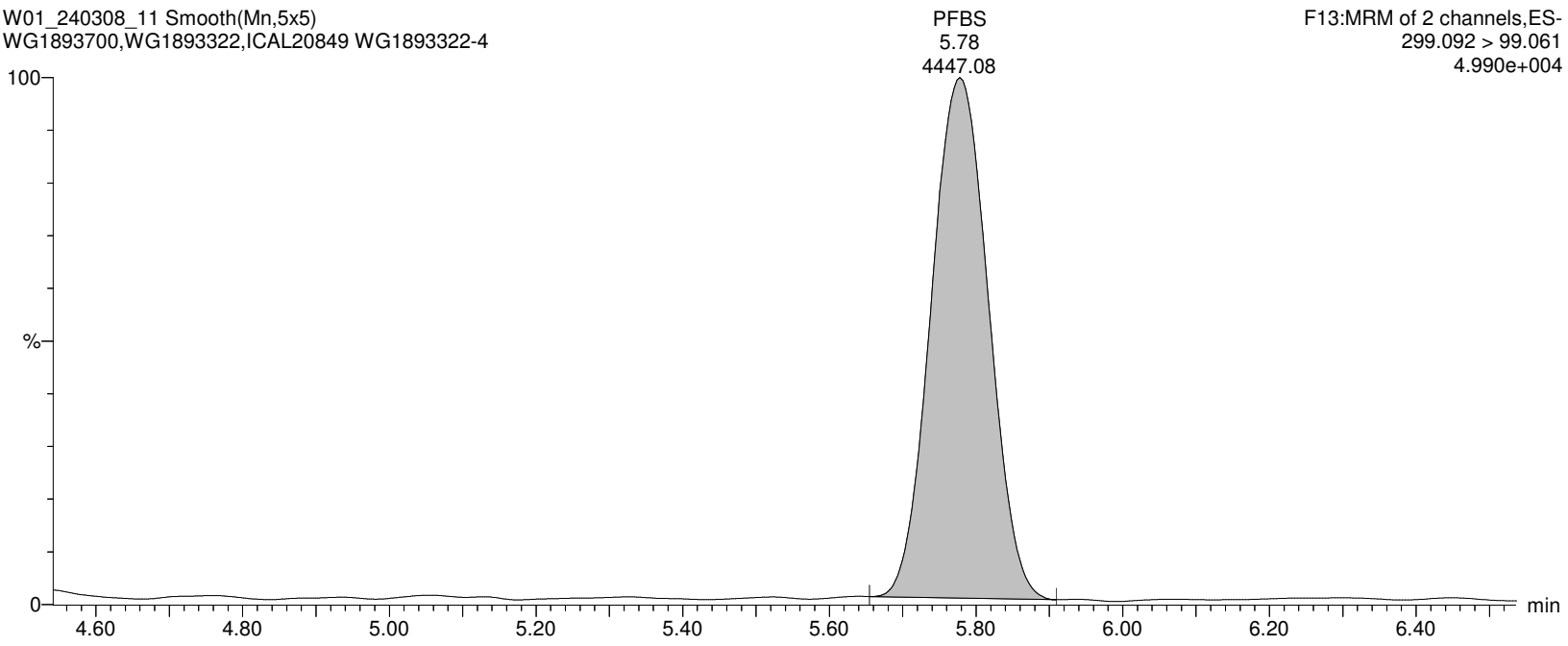

all concentration units in (ng/mL)

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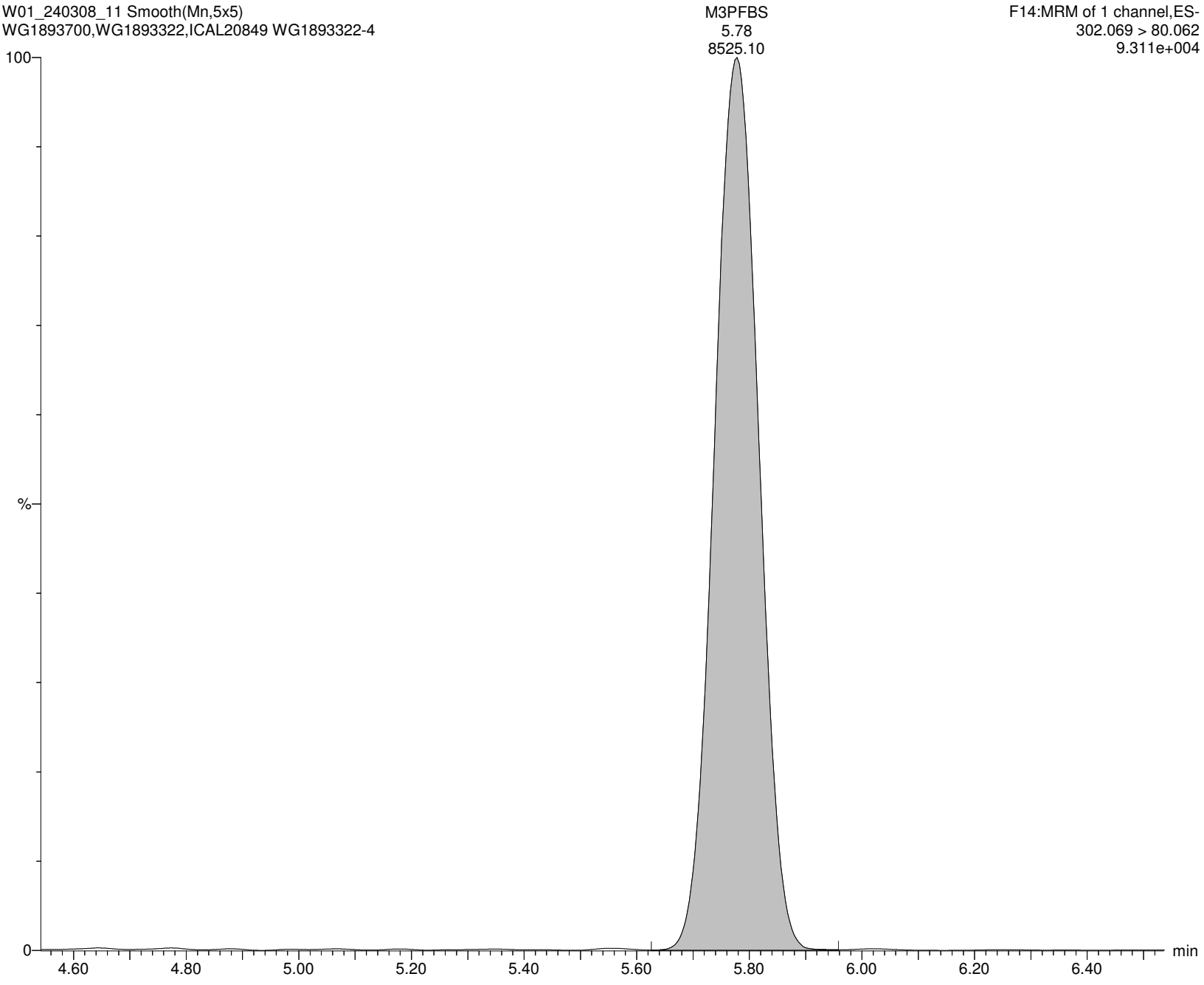

all concentration units in (ng/mL)

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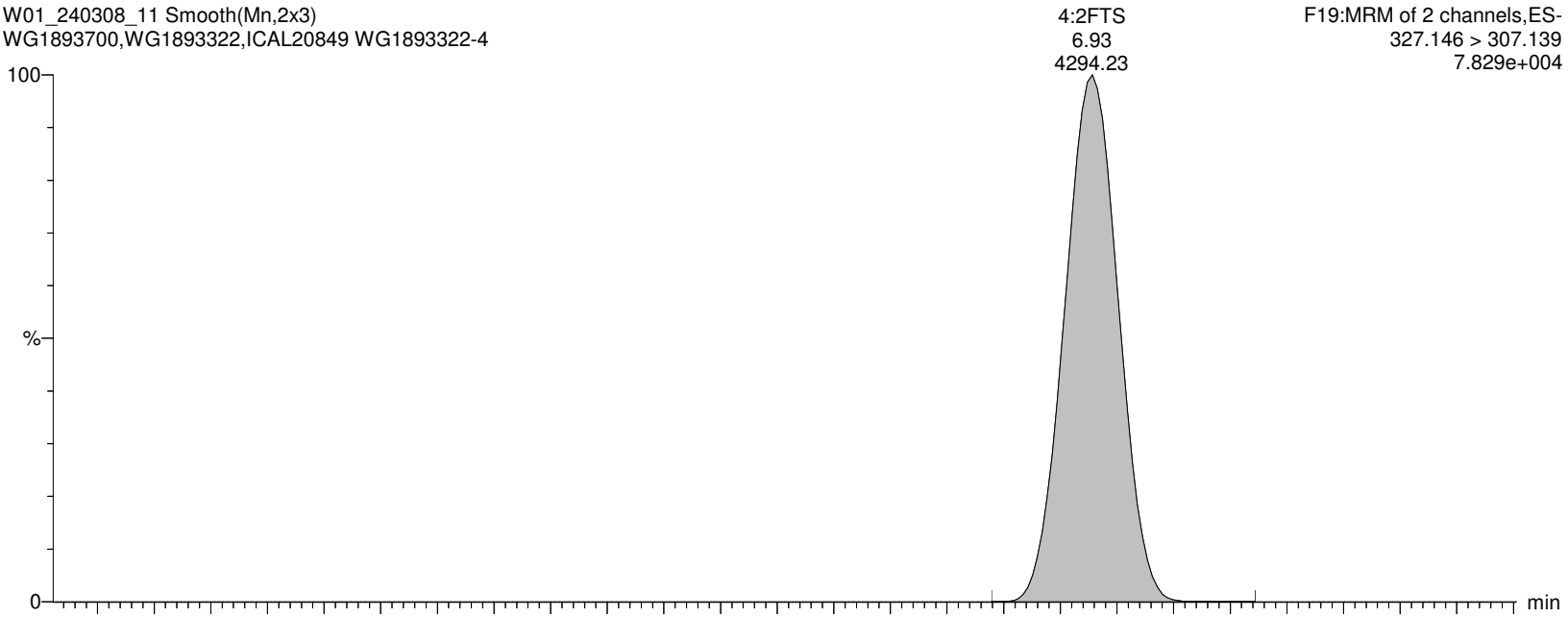
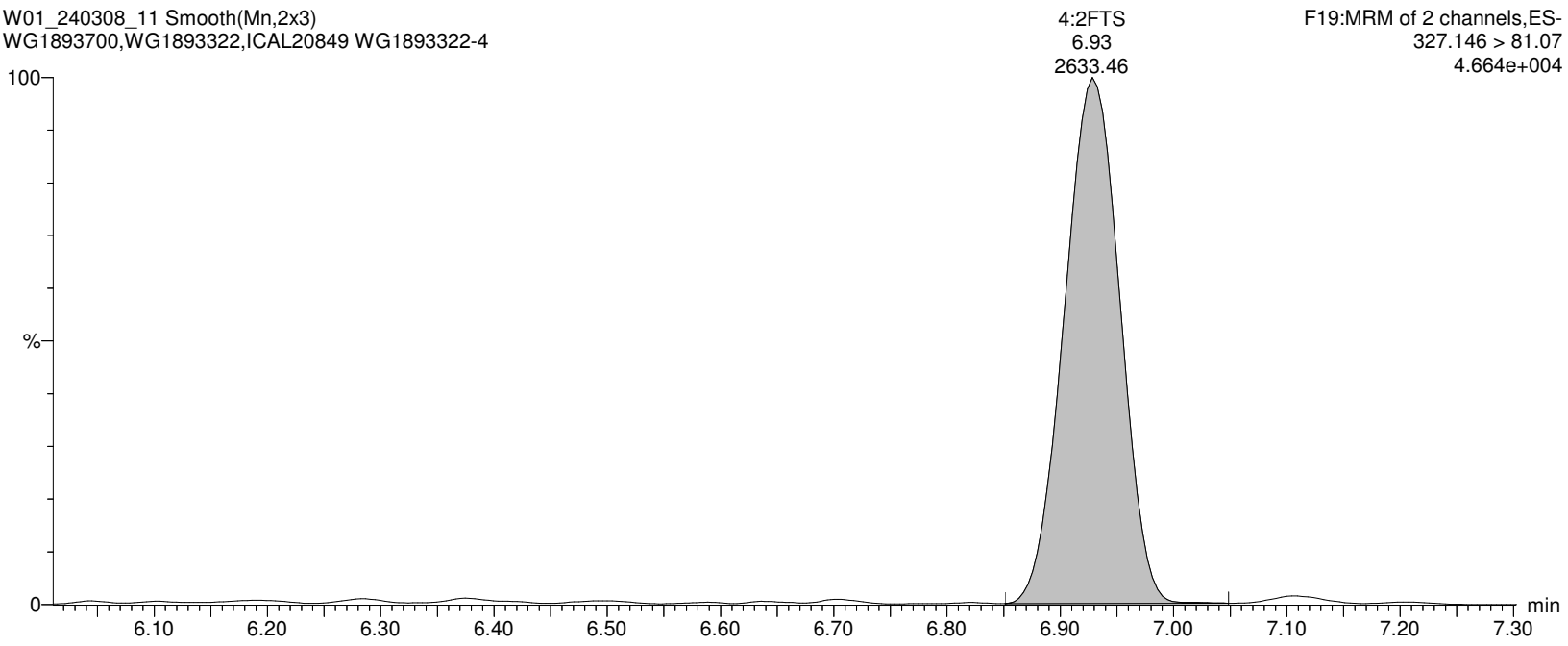
4:2FTS





all concentration units in (ng/mL)

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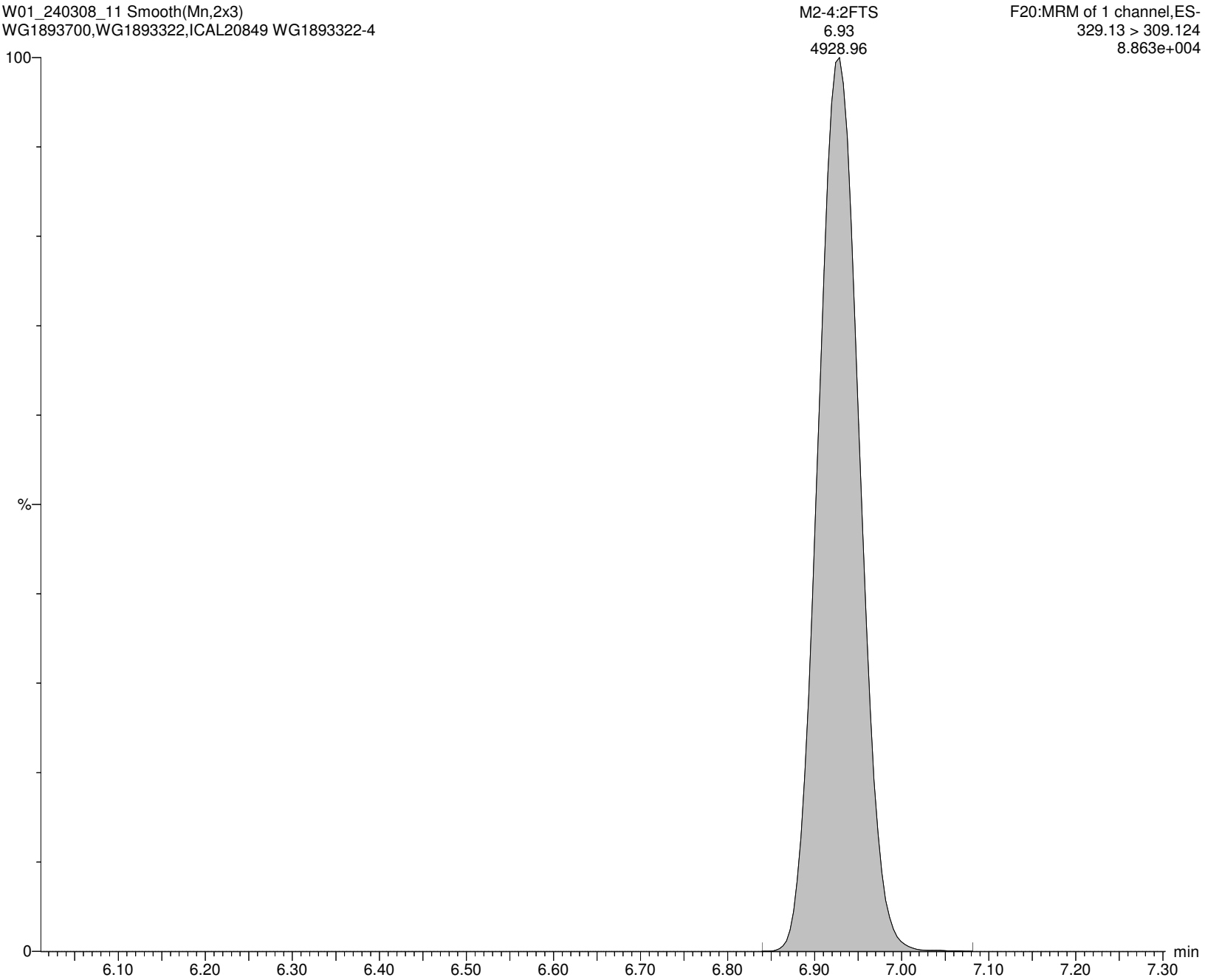
M2-4:2FTS



all concentration units in (ng/mL)

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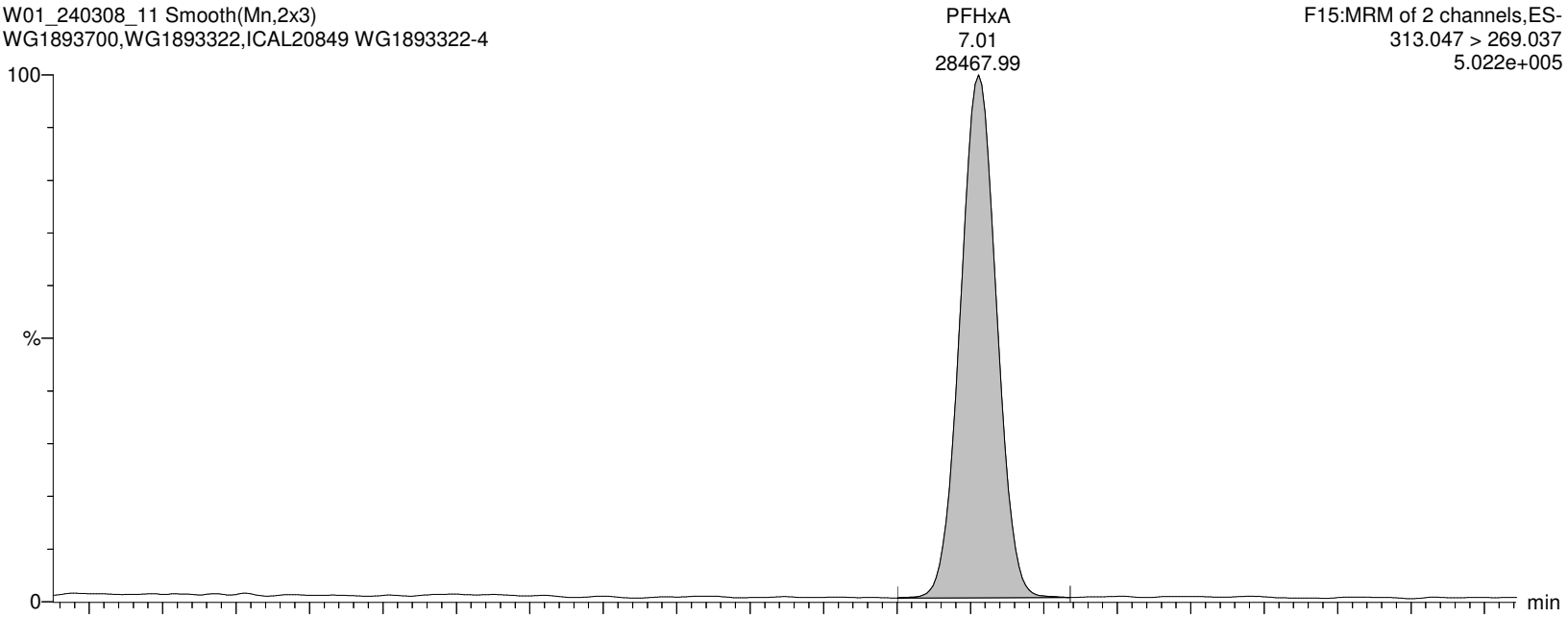

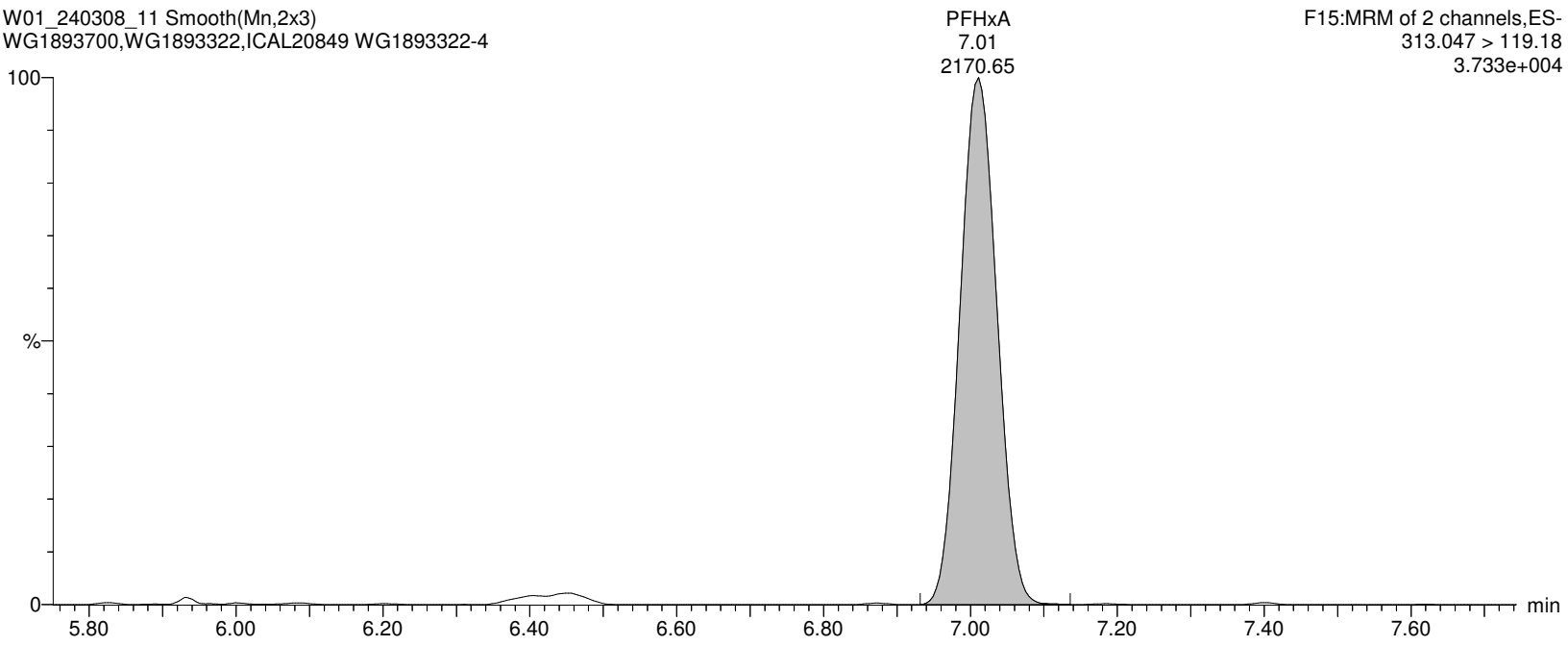

all concentration units in (ng/mL)

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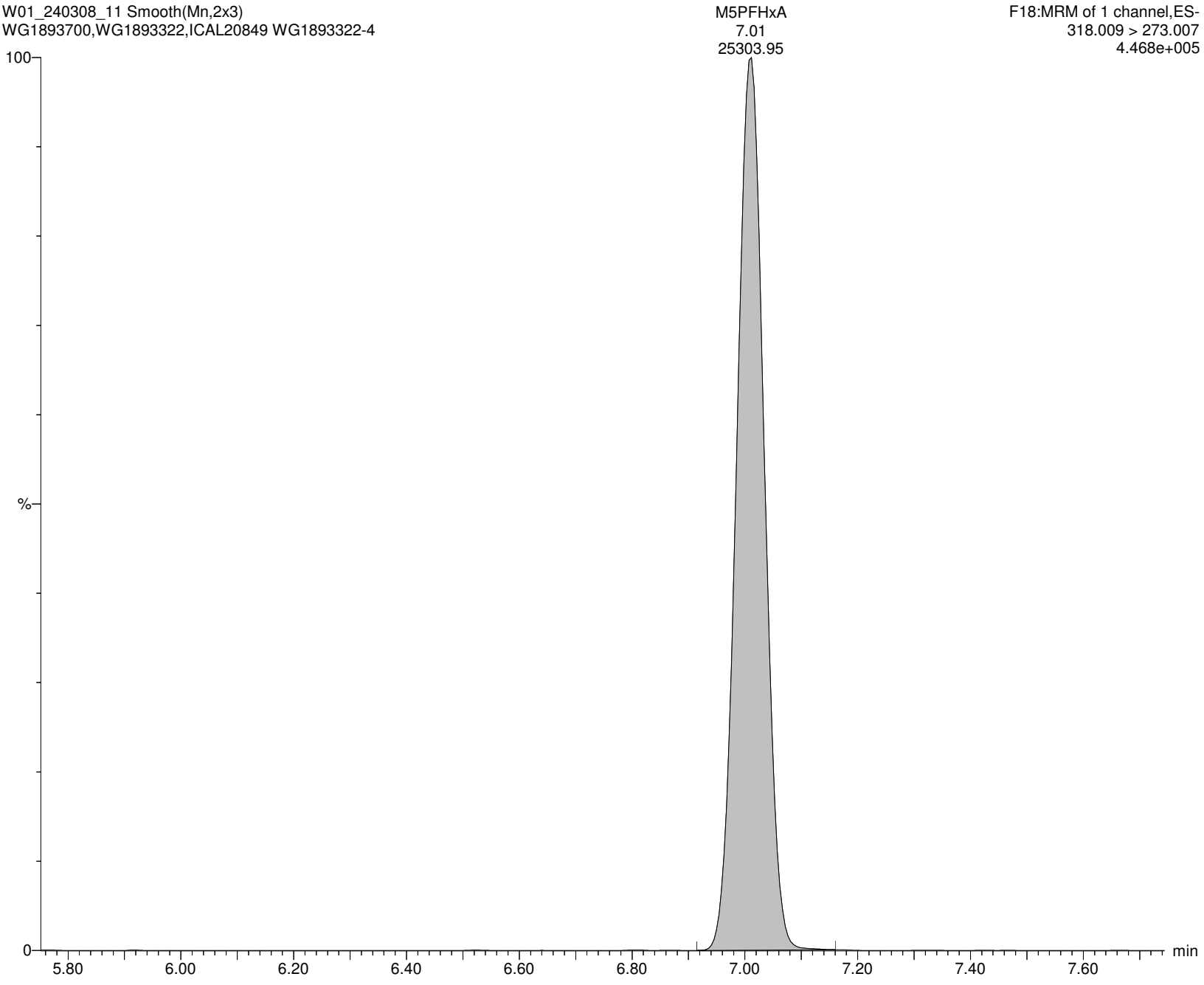

all concentration units in (ng/mL)

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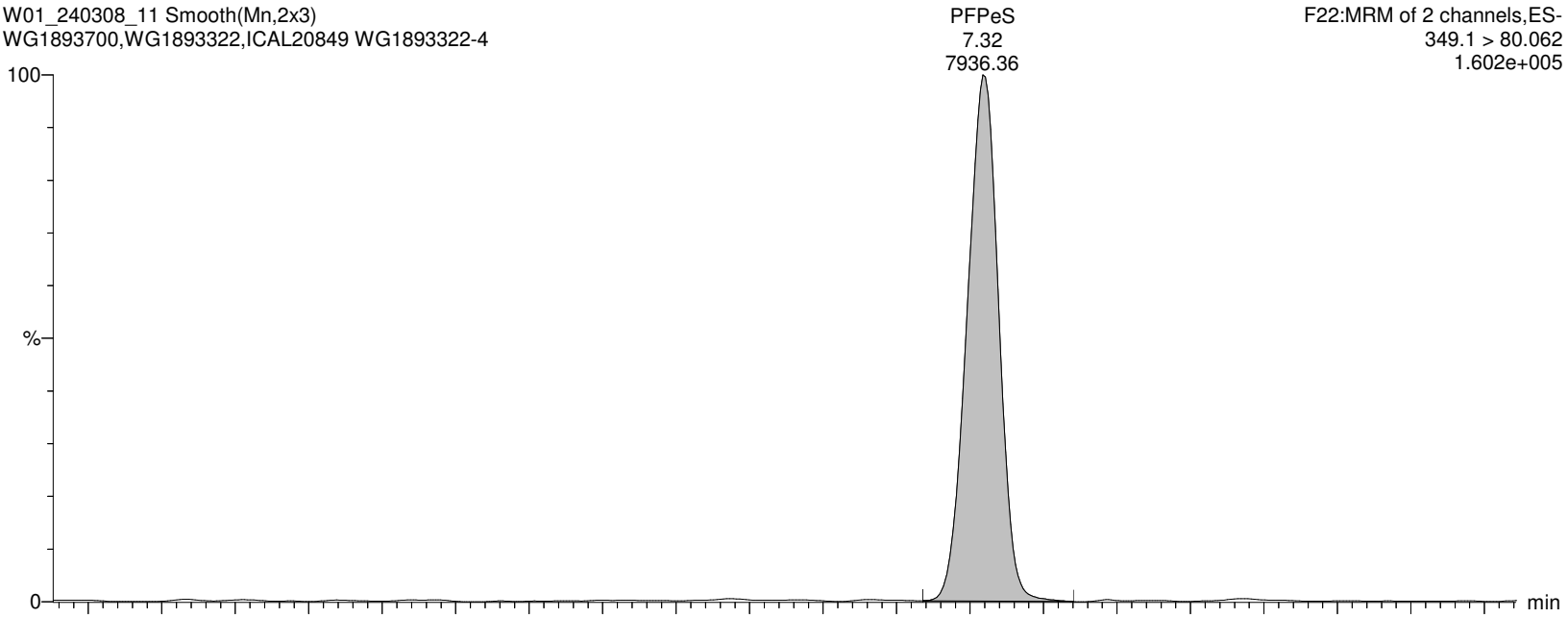

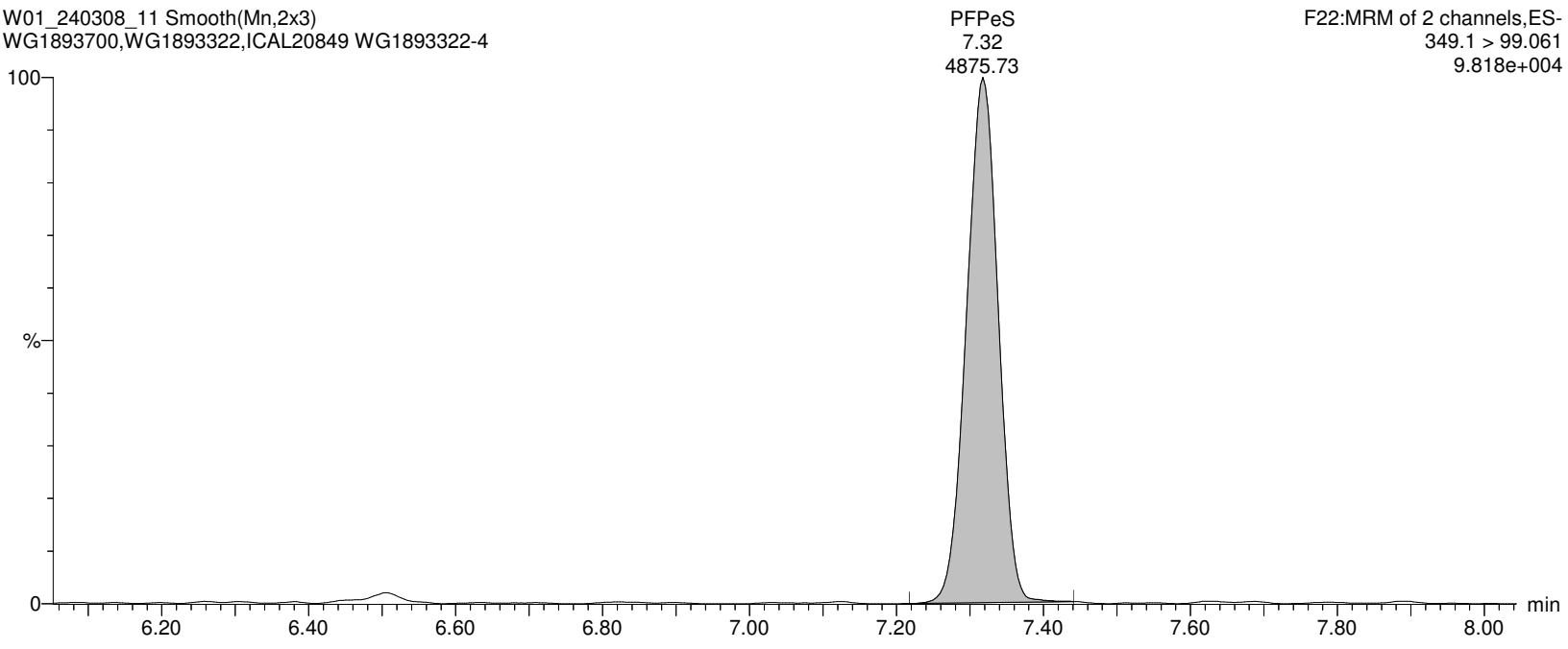

all concentration units in (ng/mL)

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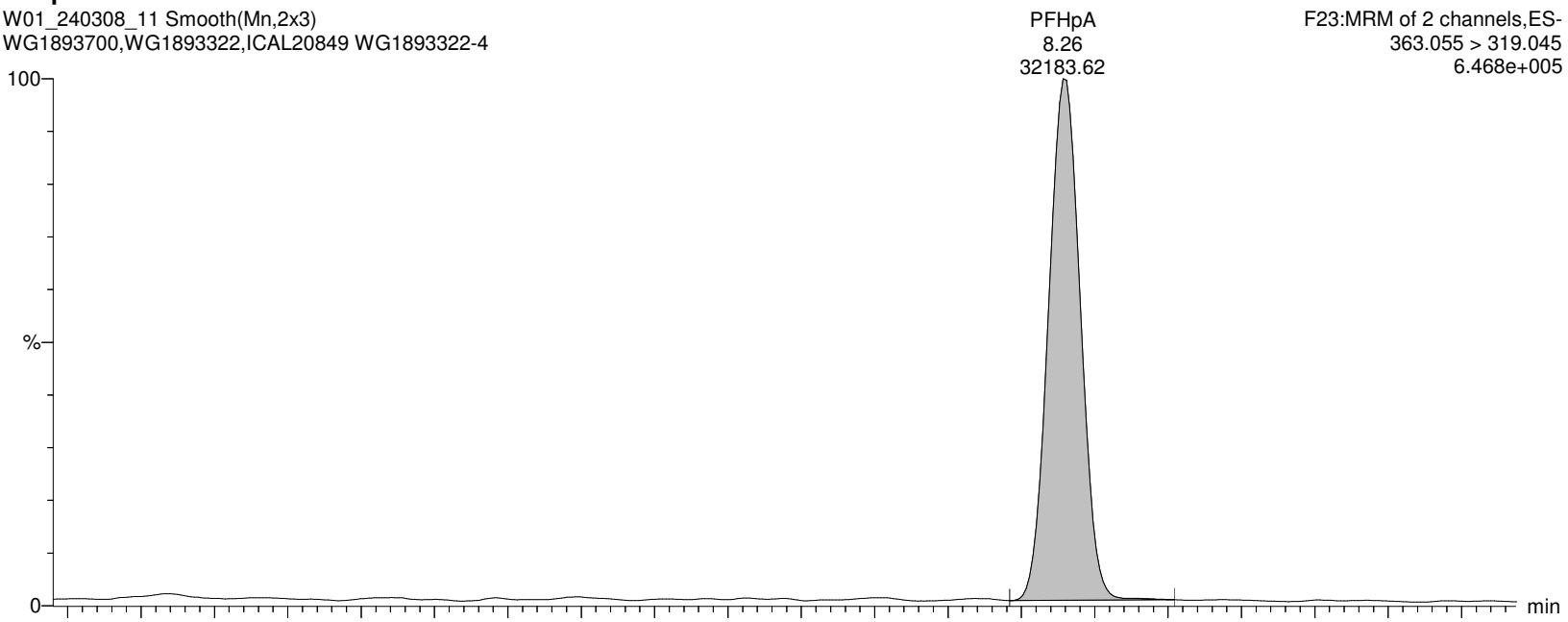

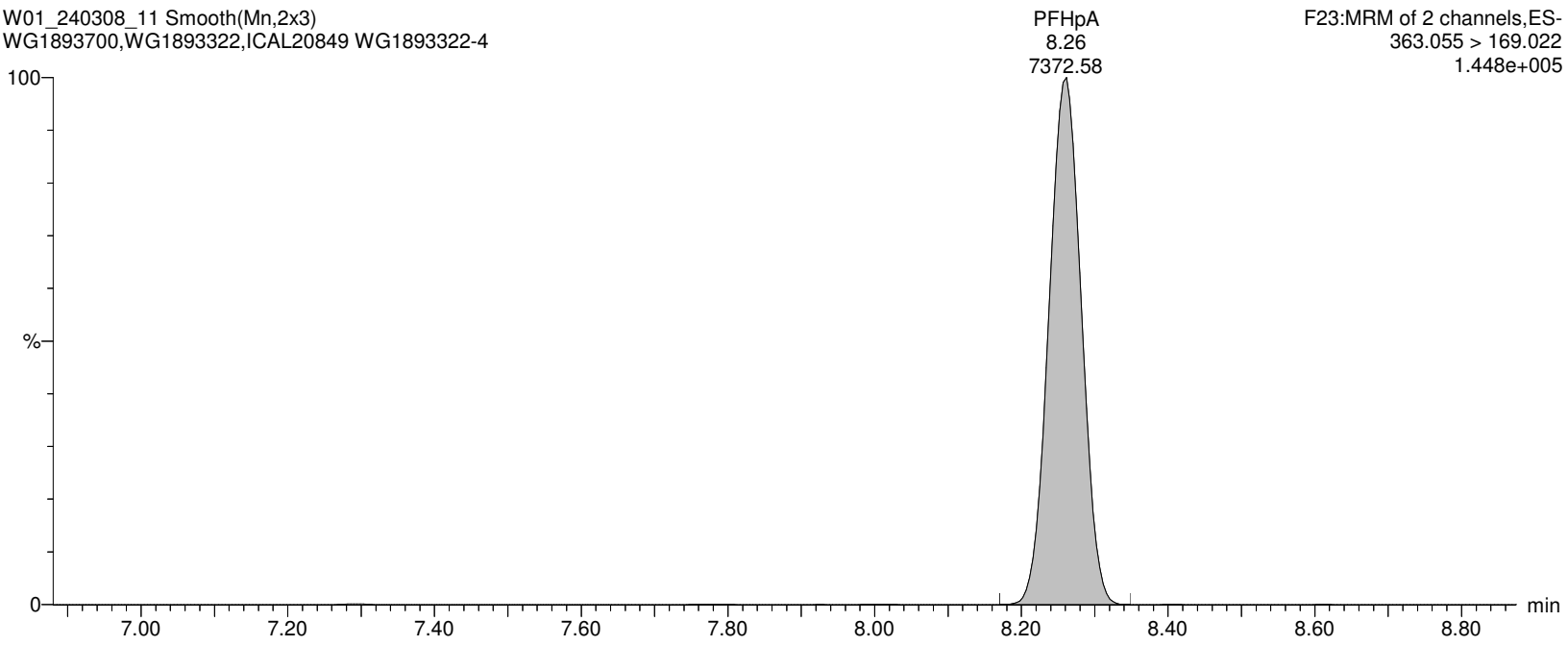

all concentration units in (ng/mL)

Alpha Analytical Inc.
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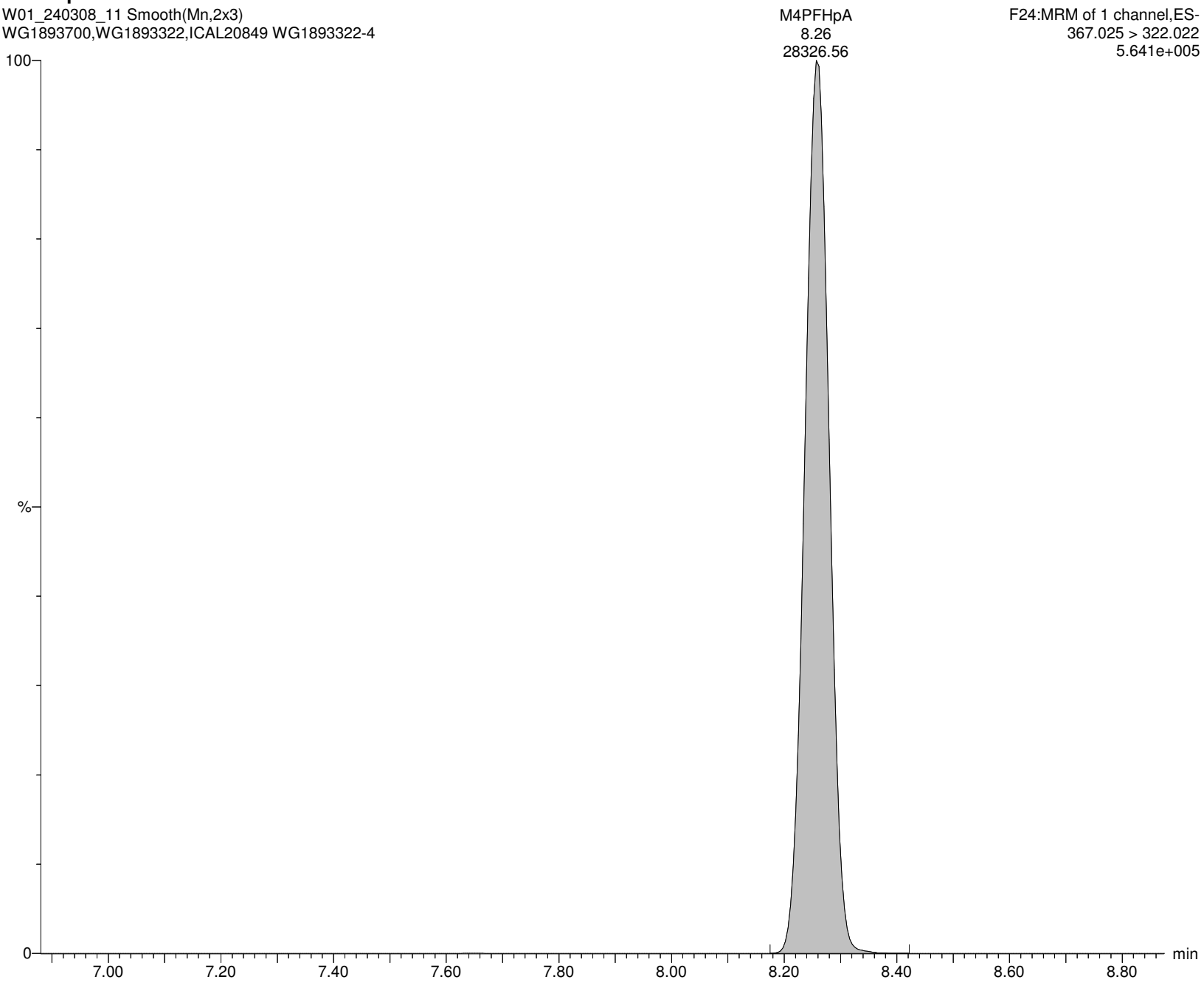

all concentration units in (ng/mL)

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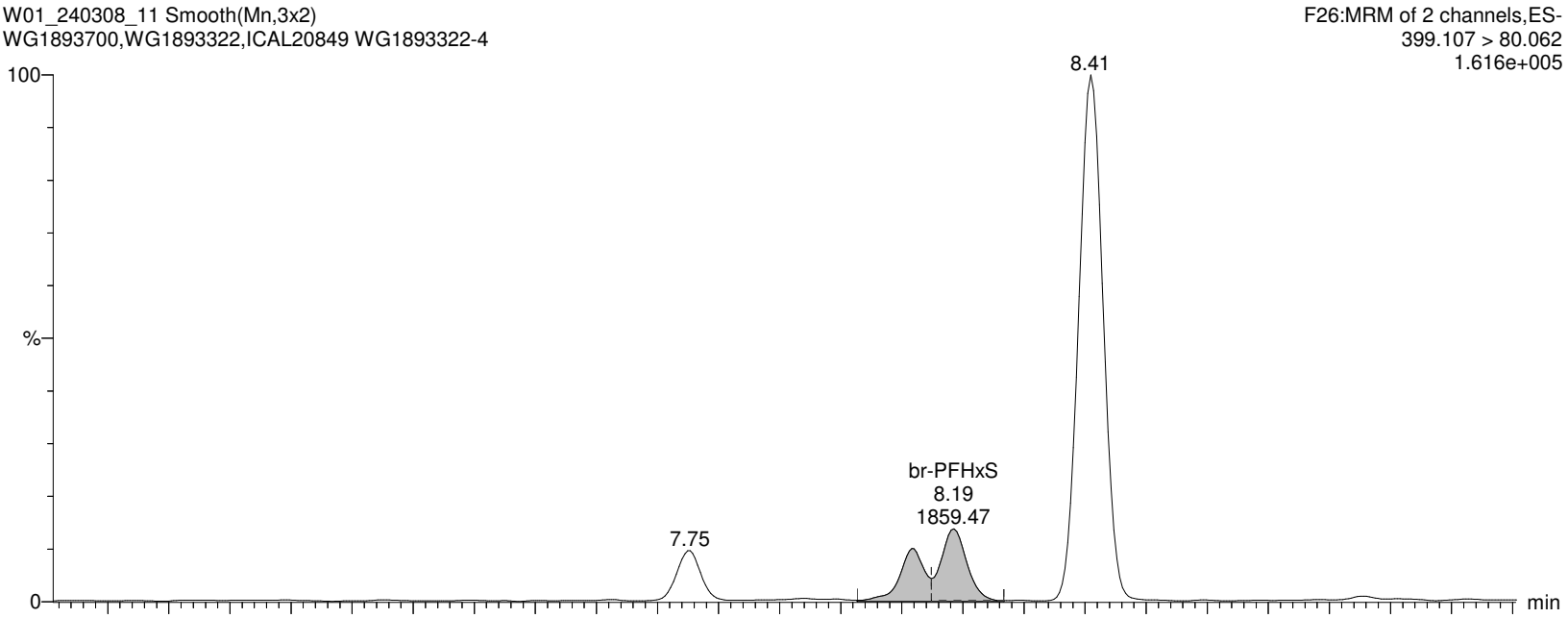

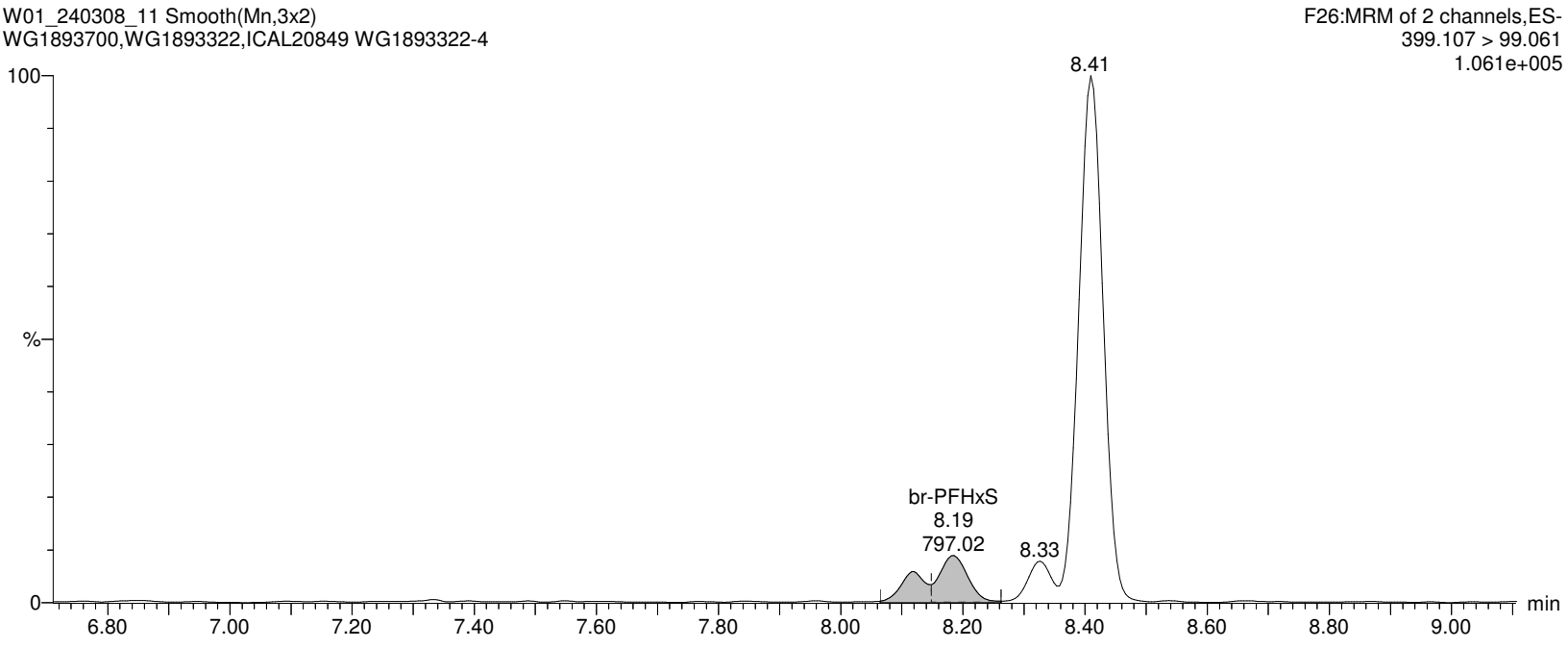

all concentration units in (ng/mL)

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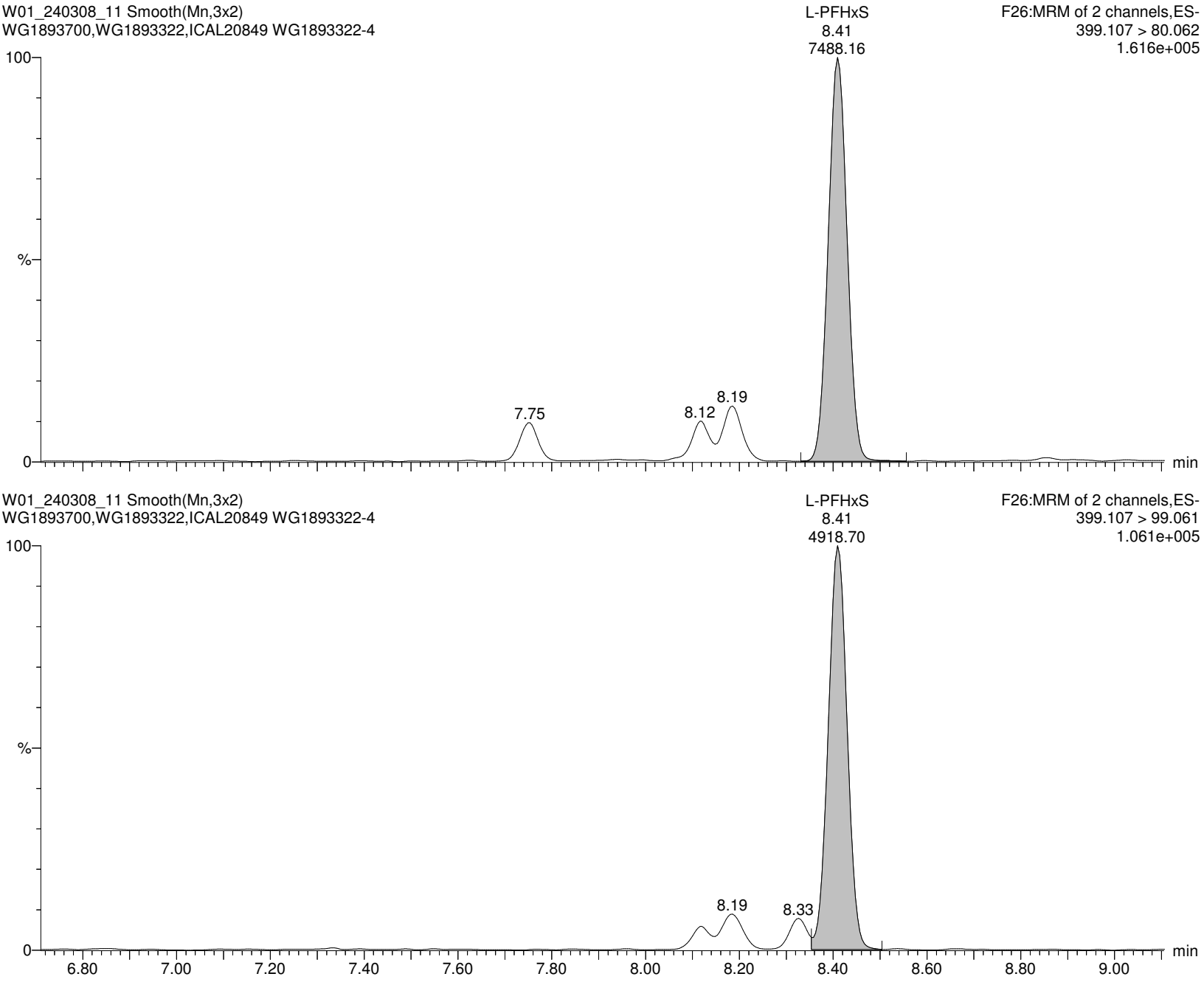
L-PFHxS



all concentration units in (ng/mL)

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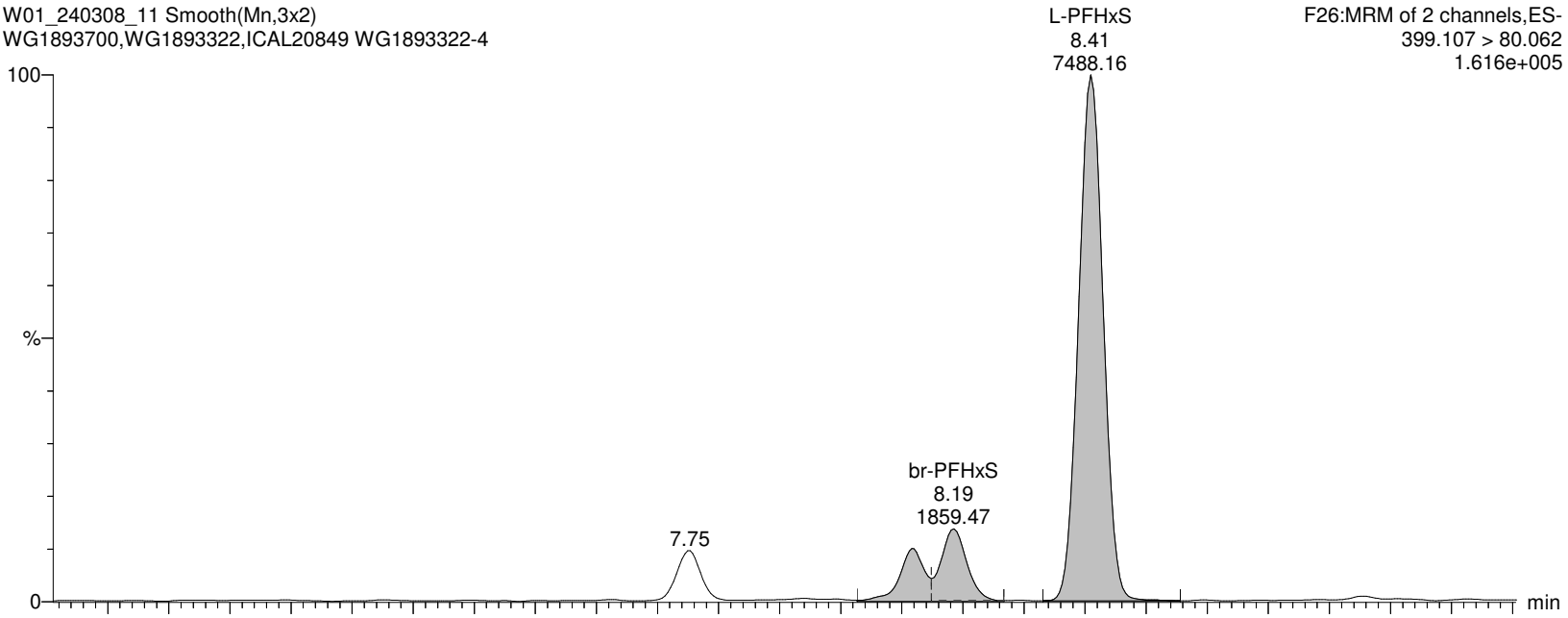

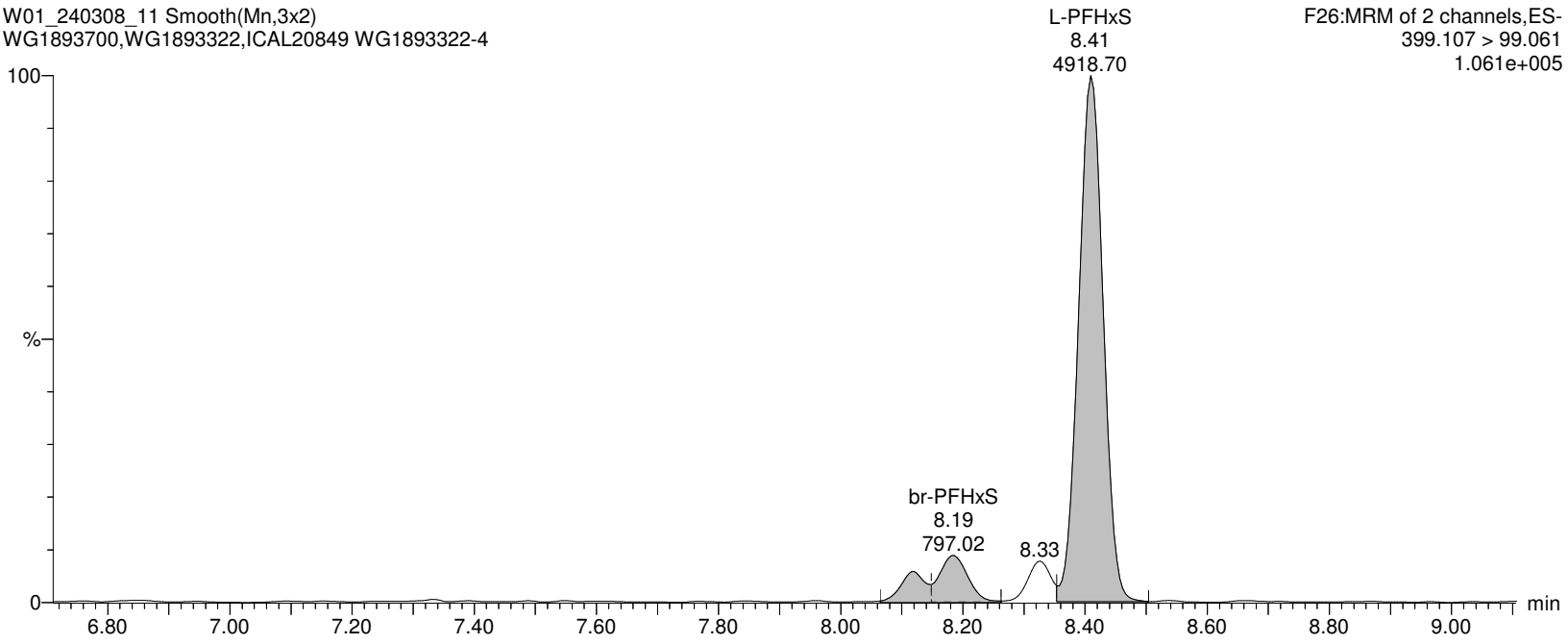

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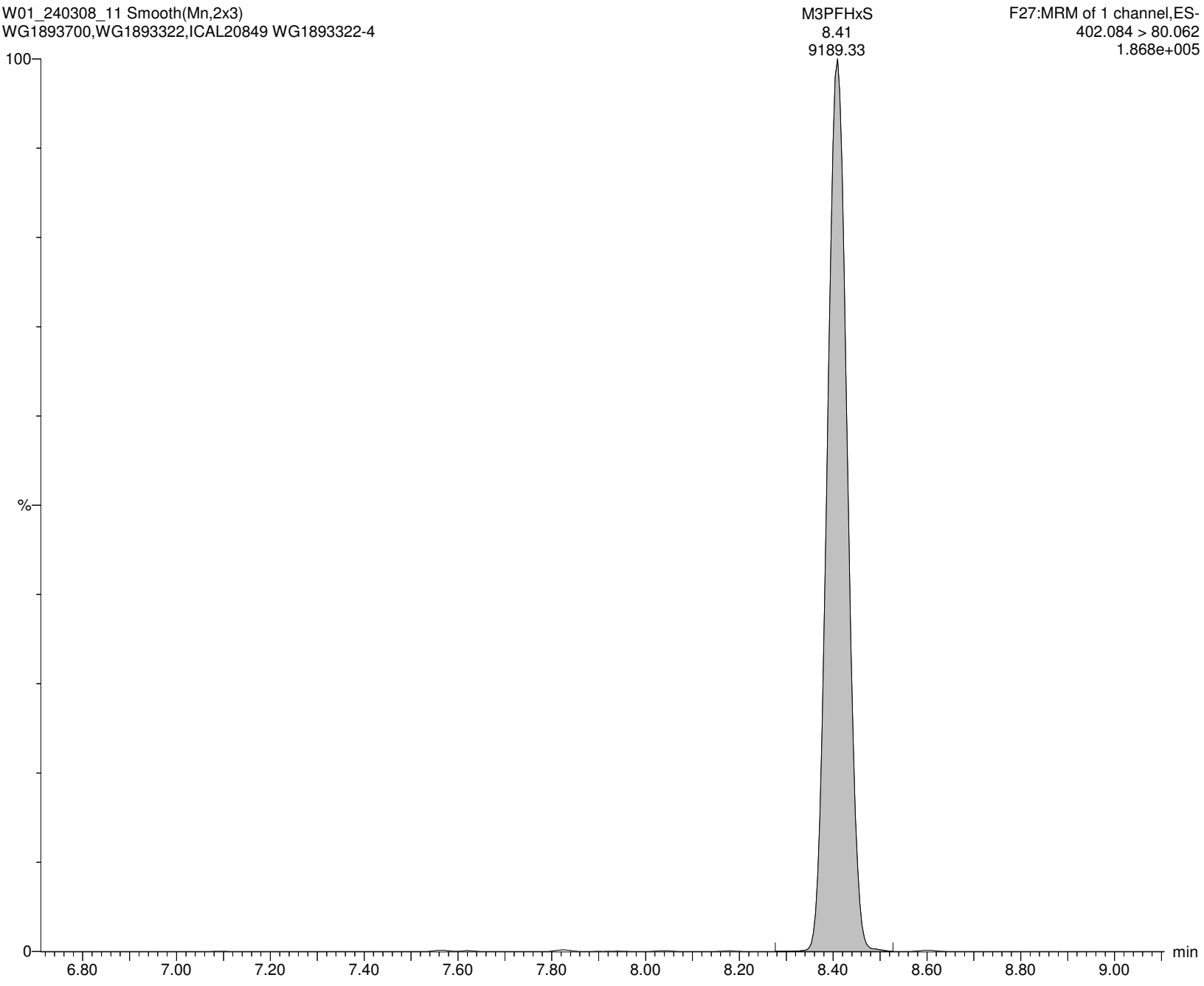

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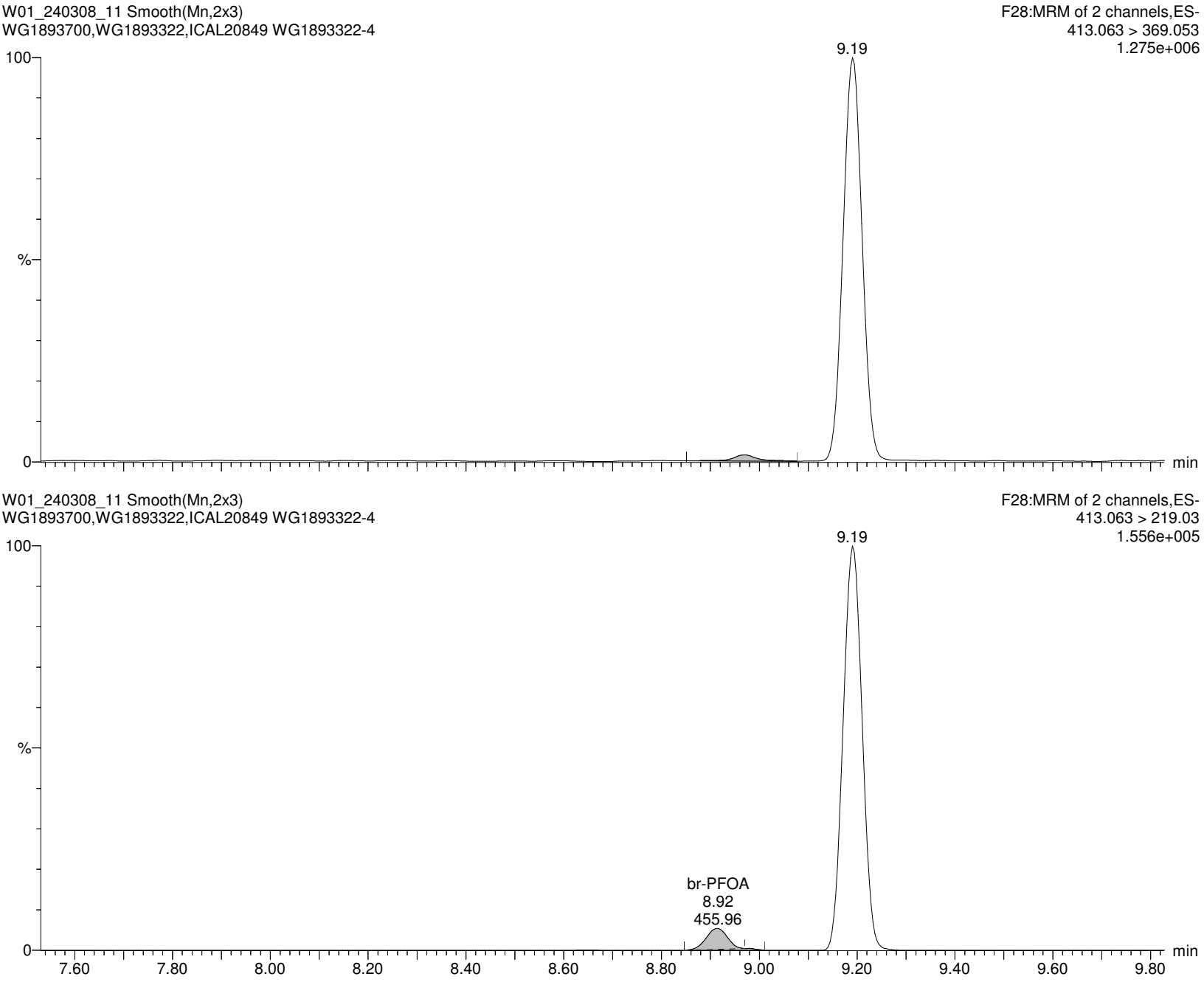

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:41 Eastern Standard Time

Name: W01_240308_11
ID: WG1893322-4
Date: 08-Mar-2024
Time: 07:49:17
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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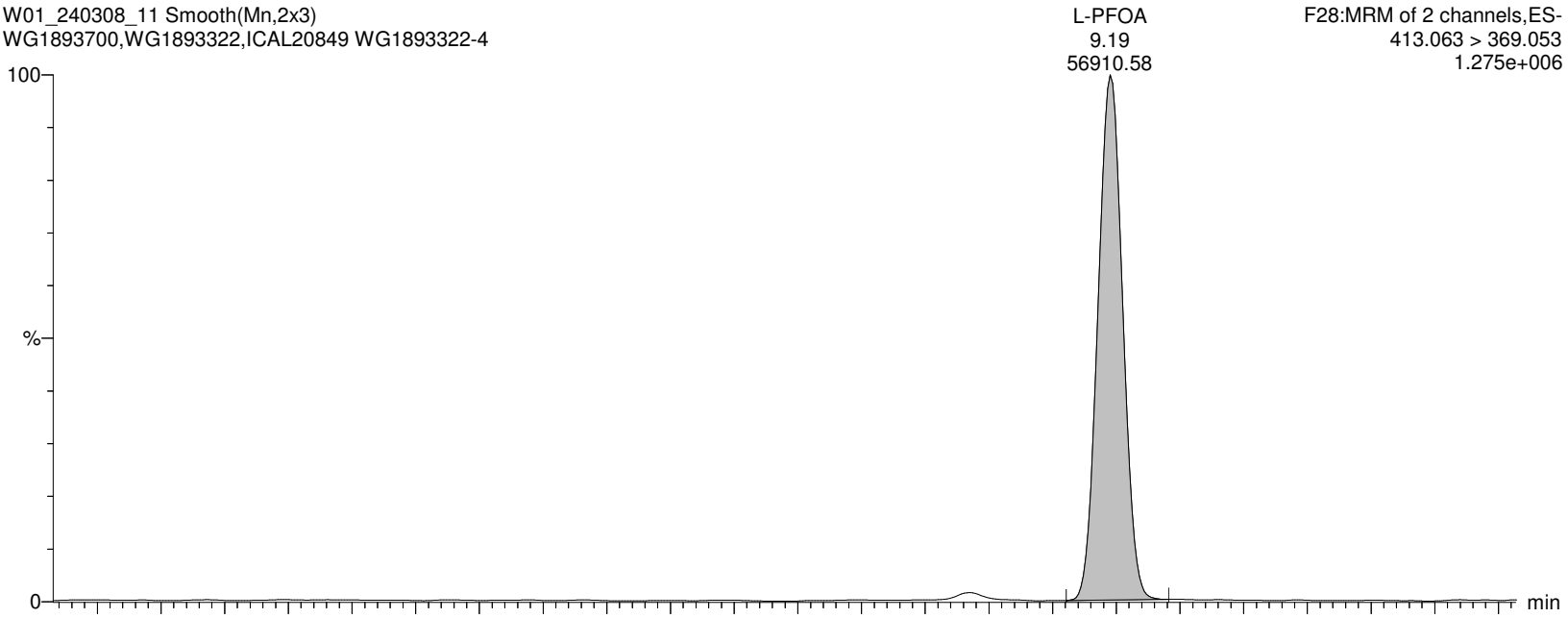

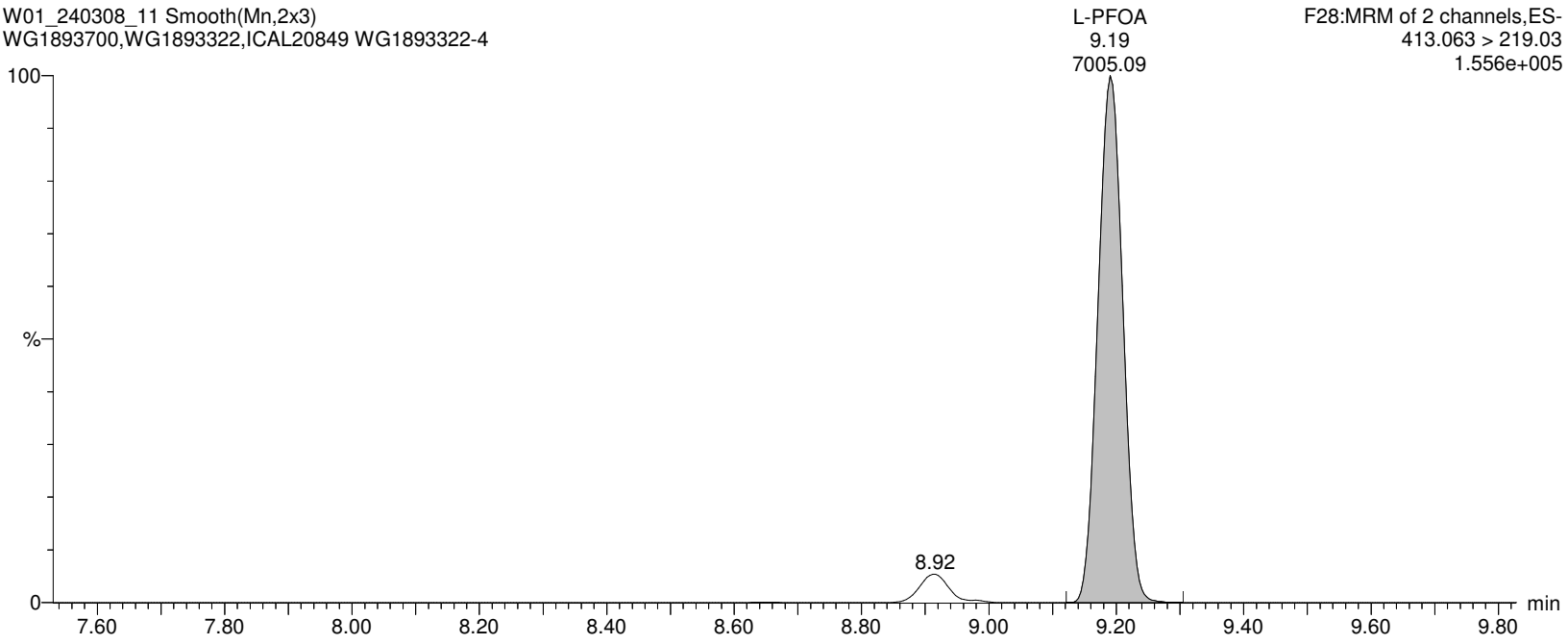

all concentration units in (ng/mL)

Alpha Analytical Inc.
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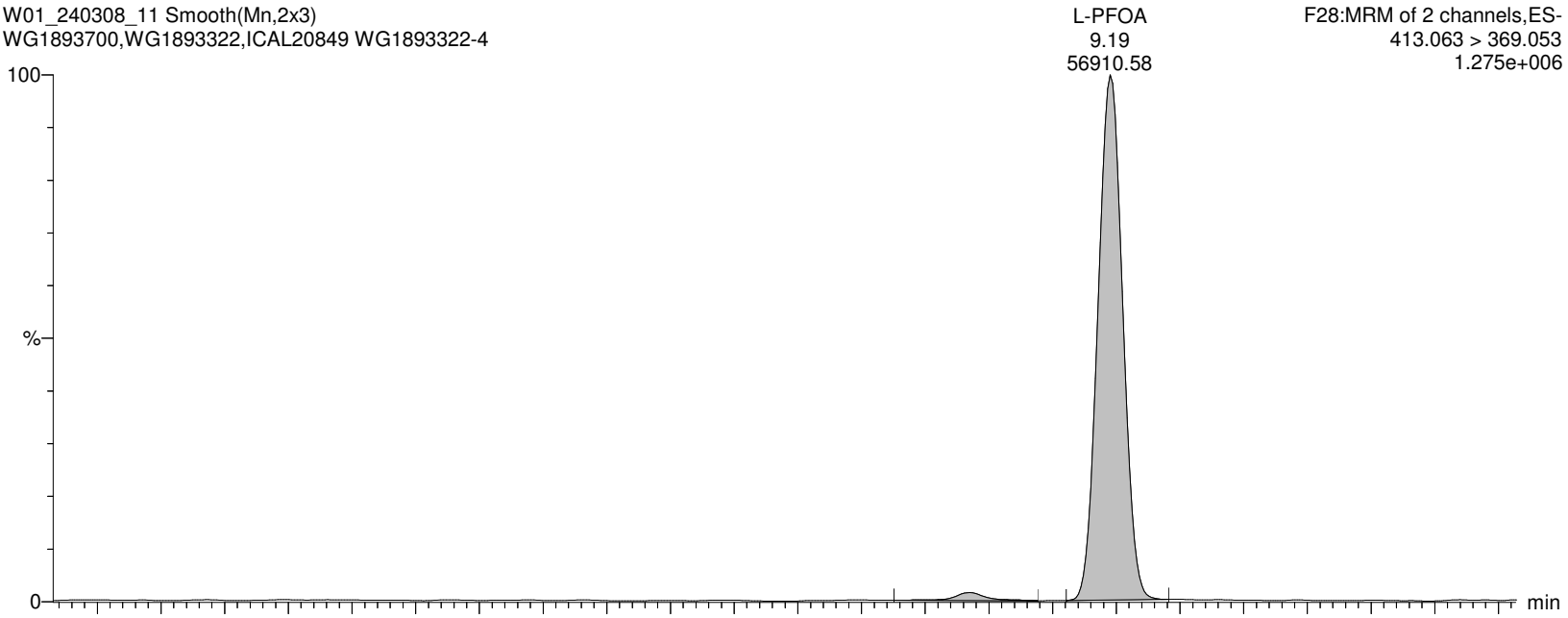

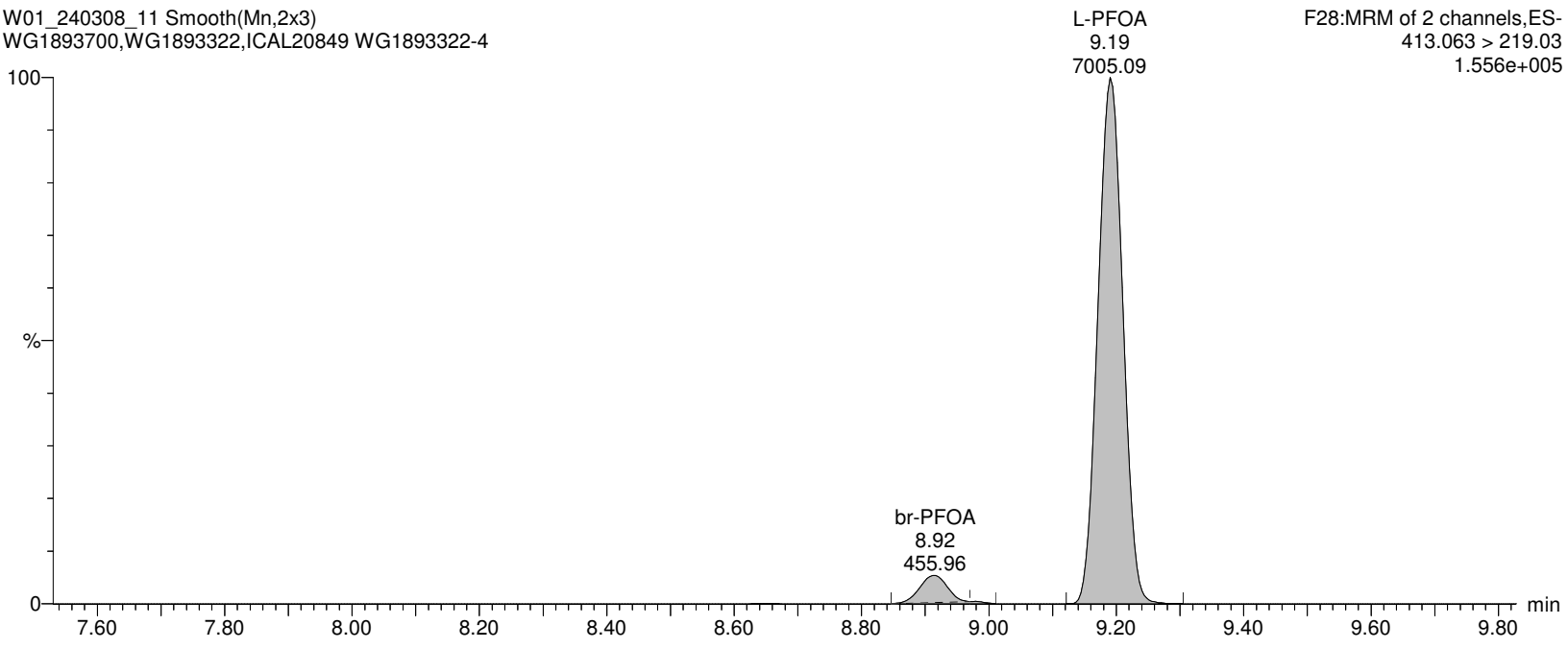

all concentration units in (ng/mL)

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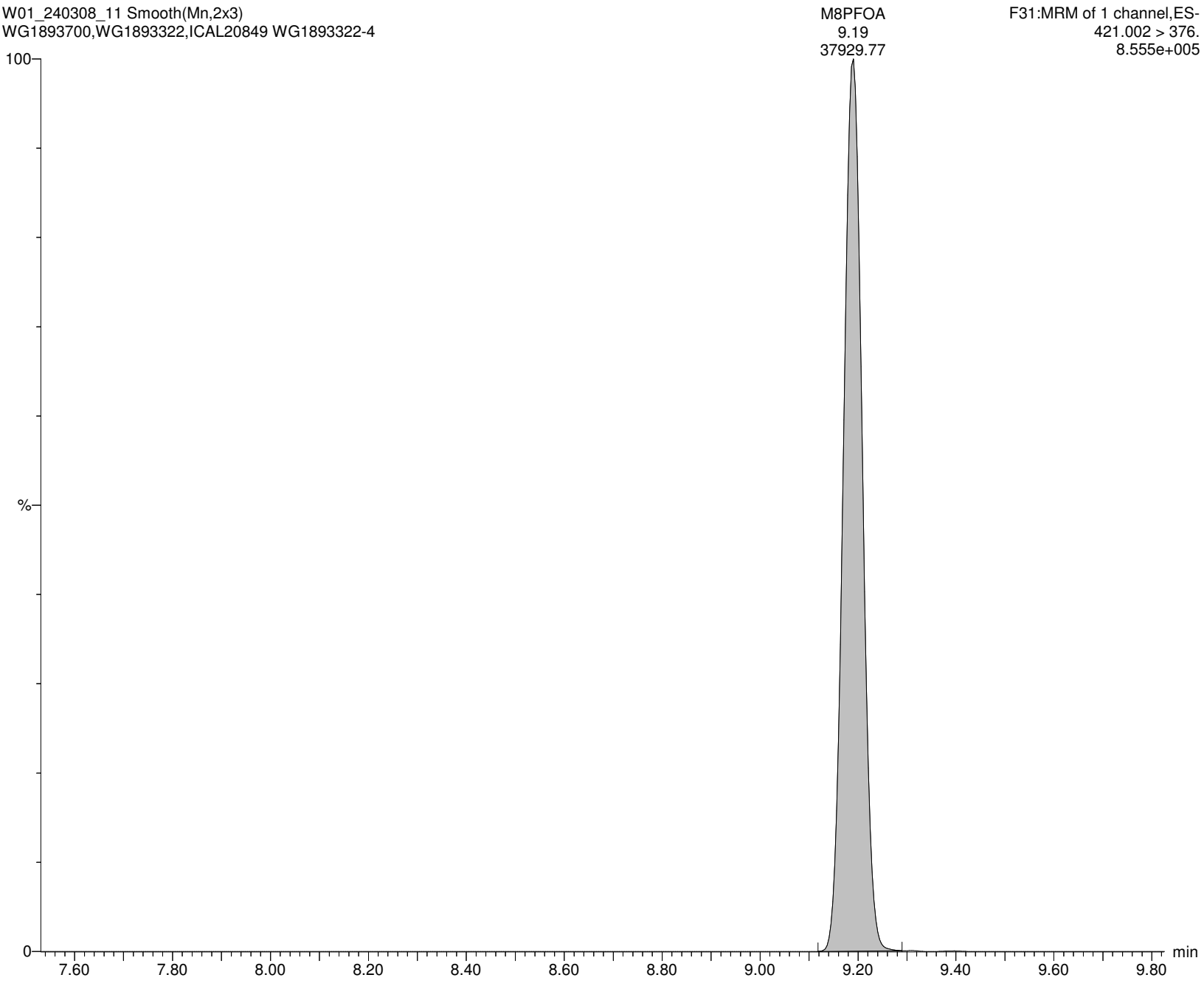

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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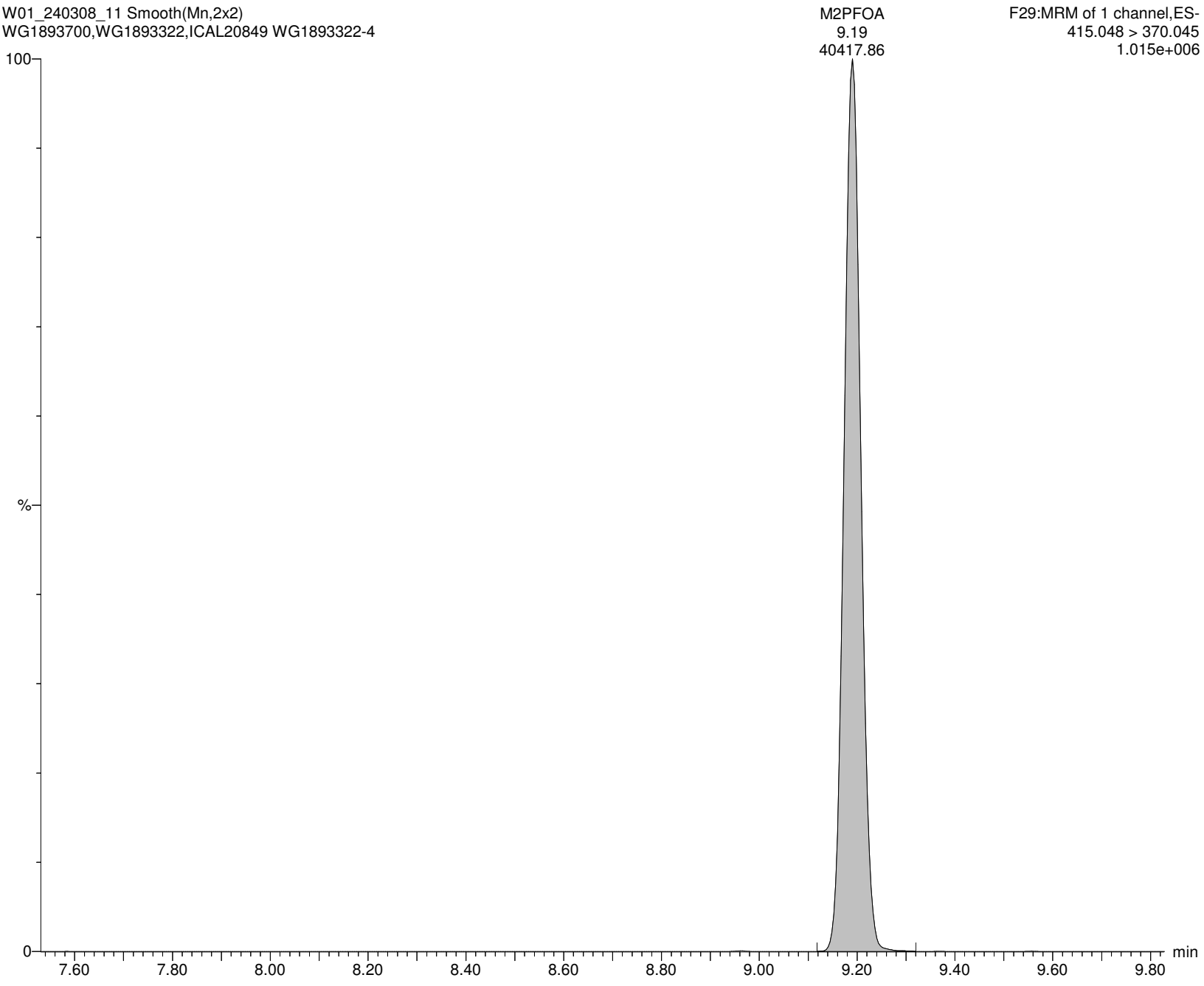

all concentration units in (ng/mL)

Alpha Analytical Inc.
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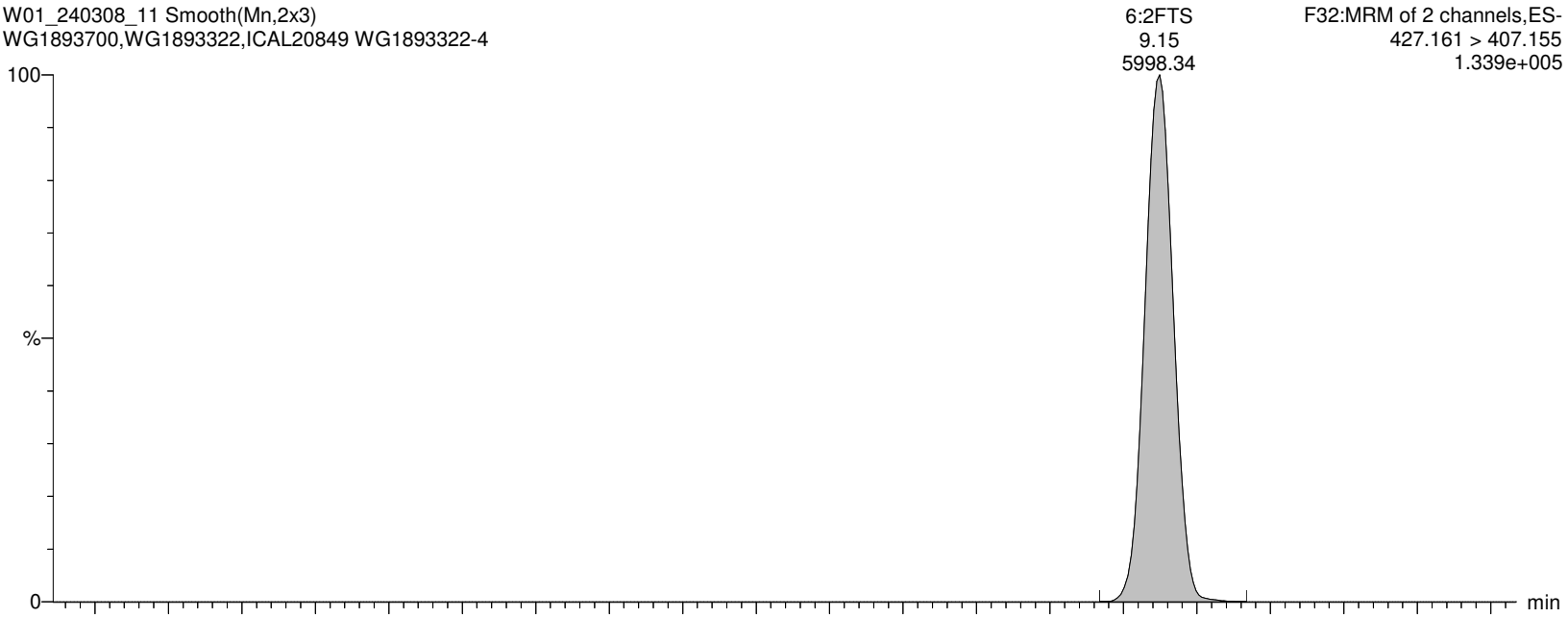
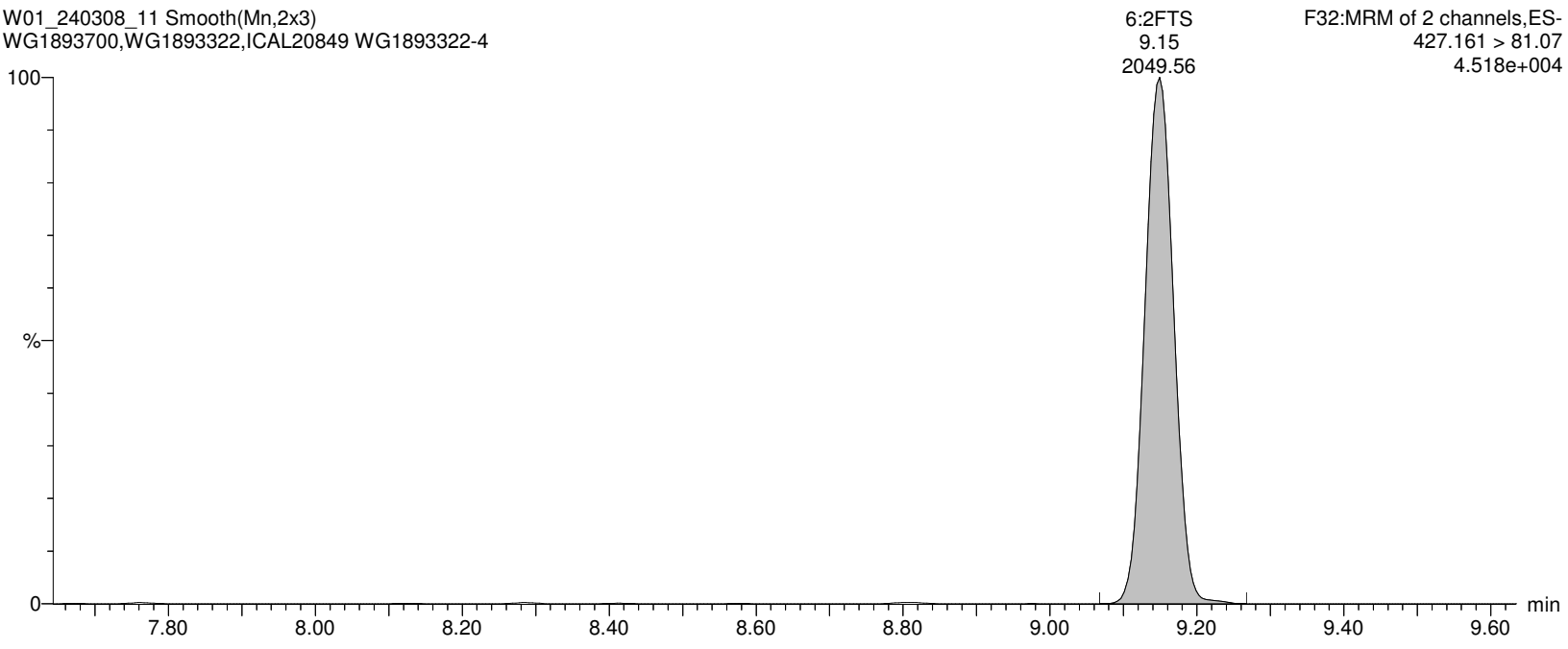
6:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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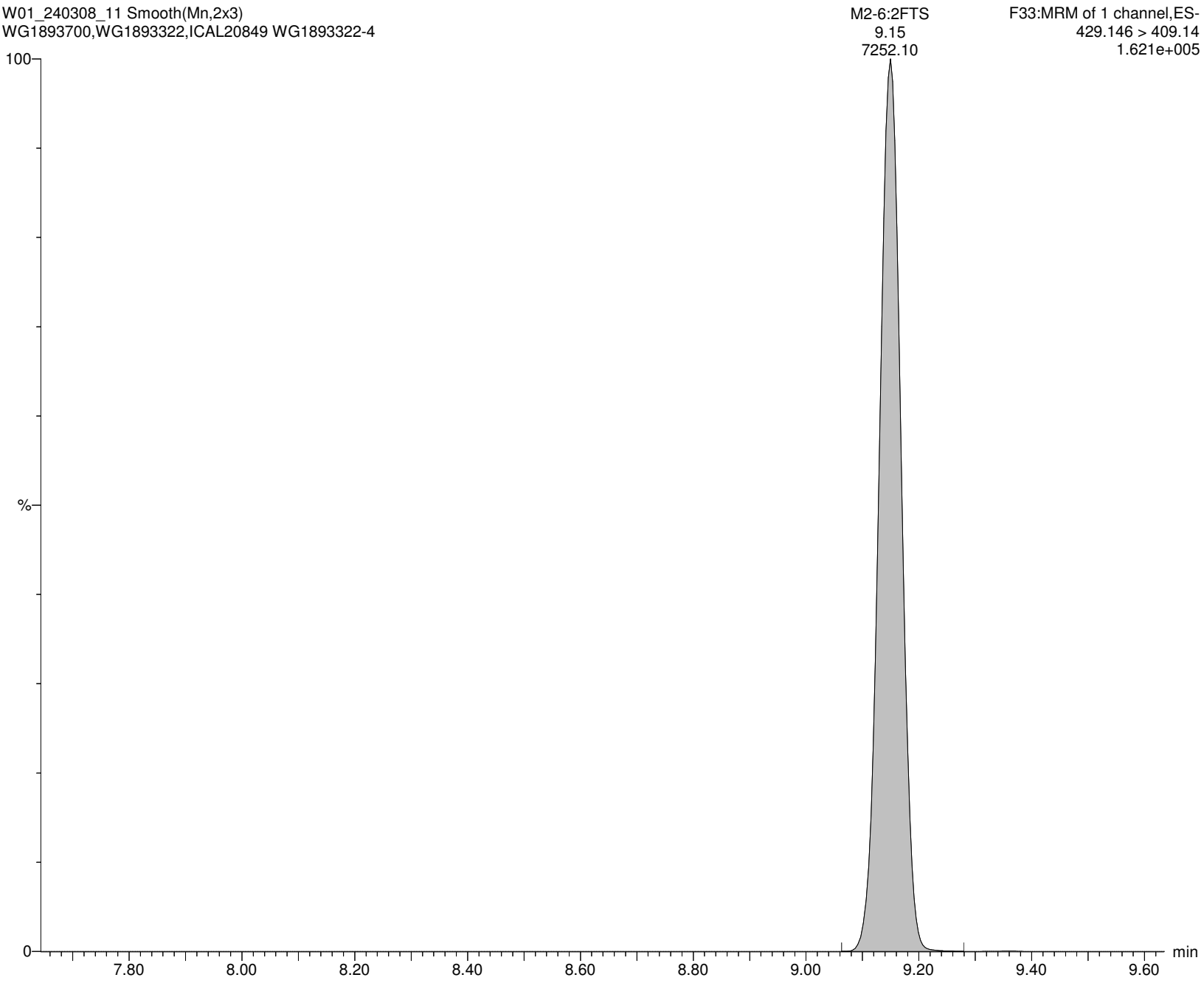
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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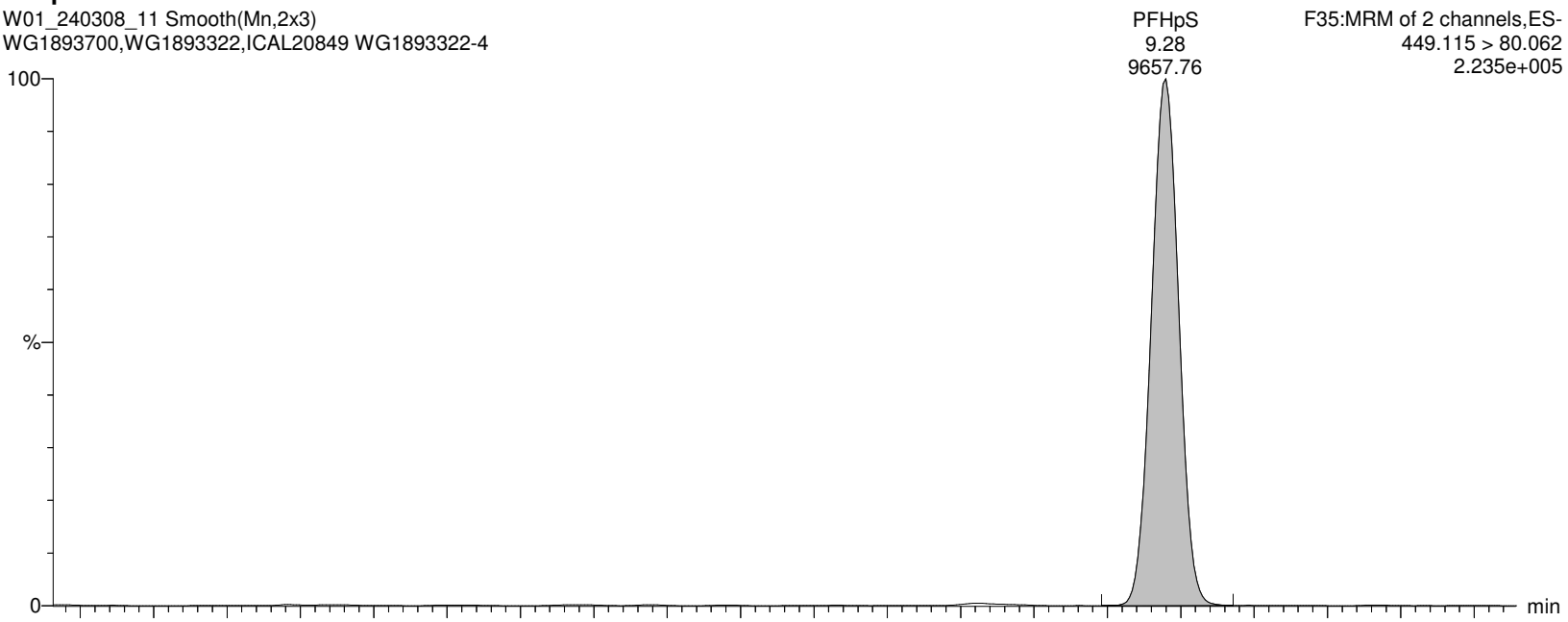

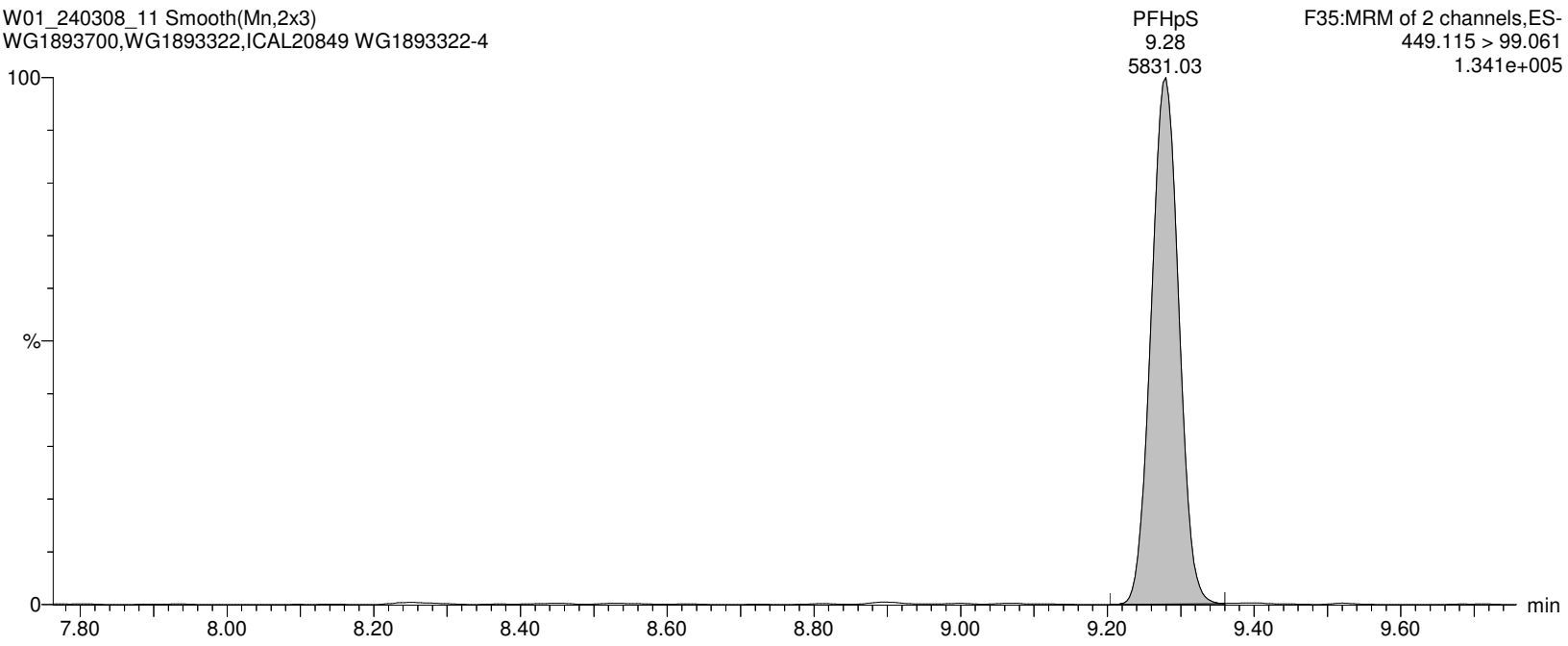

all concentration units in (ng/mL)

Alpha Analytical Inc.
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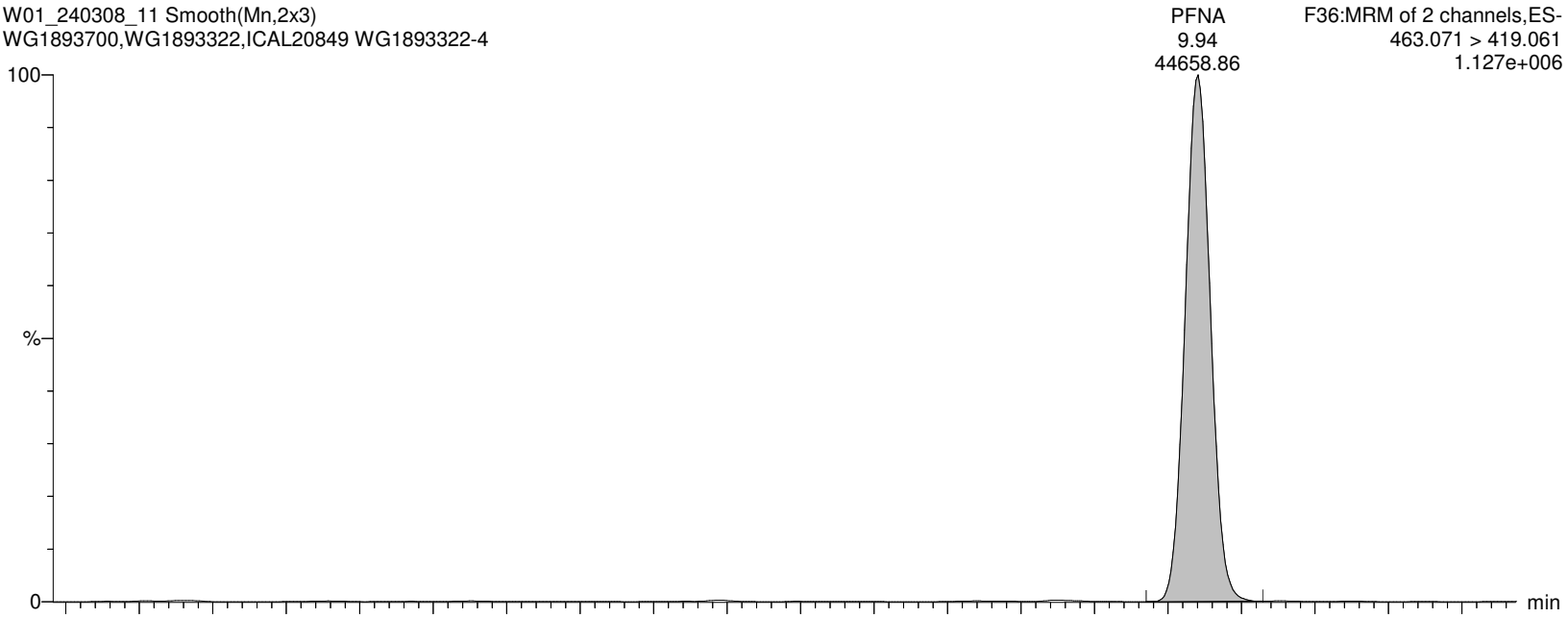

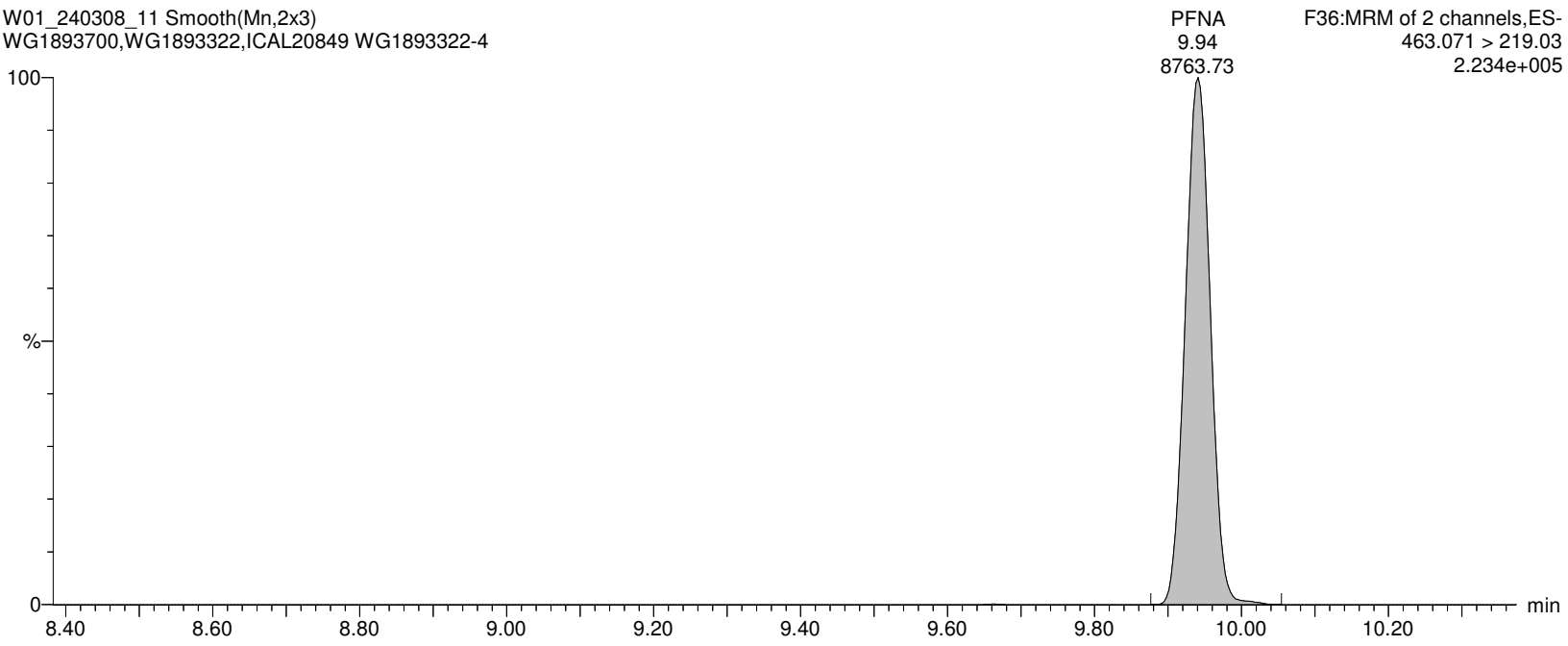

all concentration units in (ng/mL)

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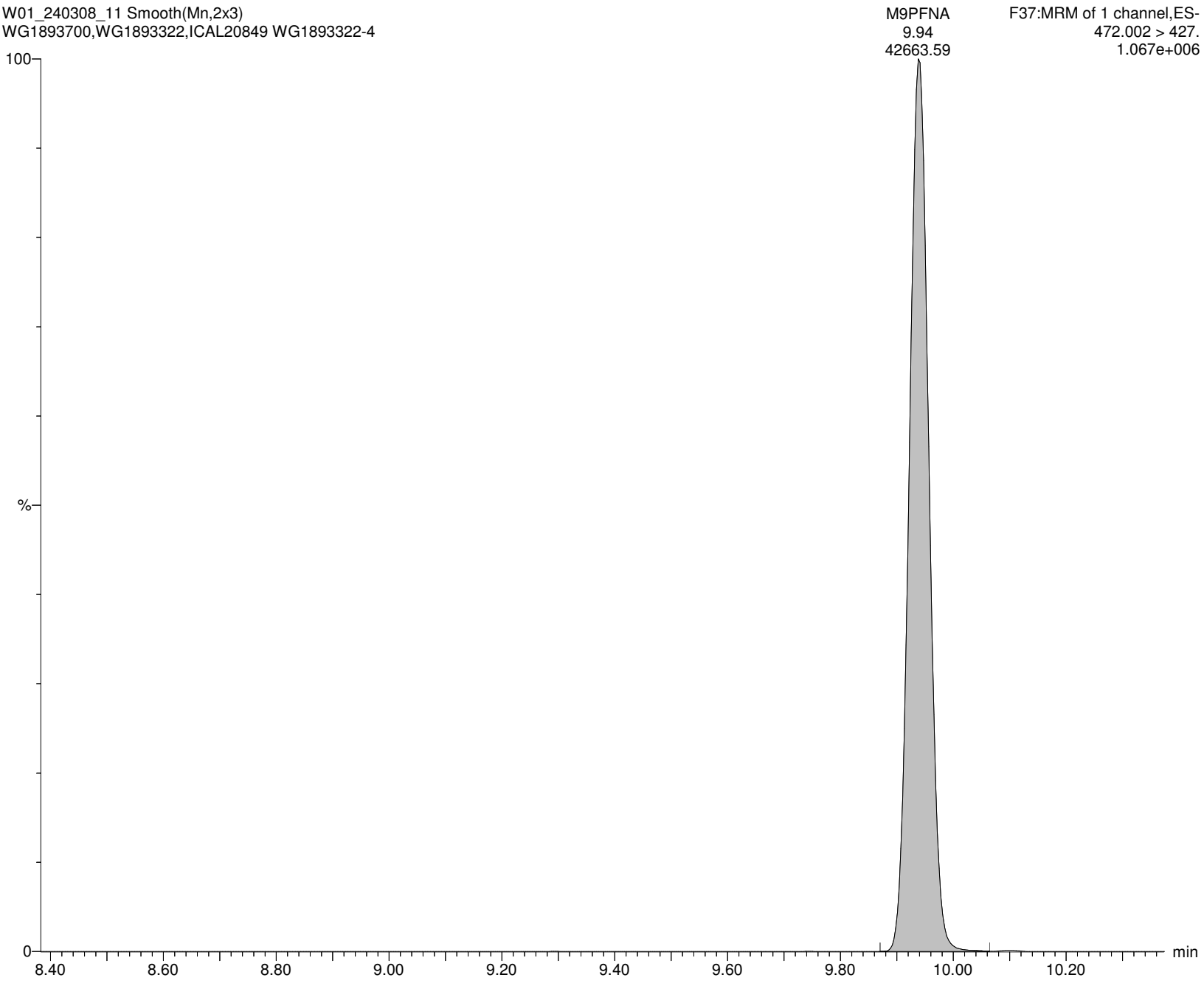

all concentration units in (ng/mL)

Alpha Analytical Inc.
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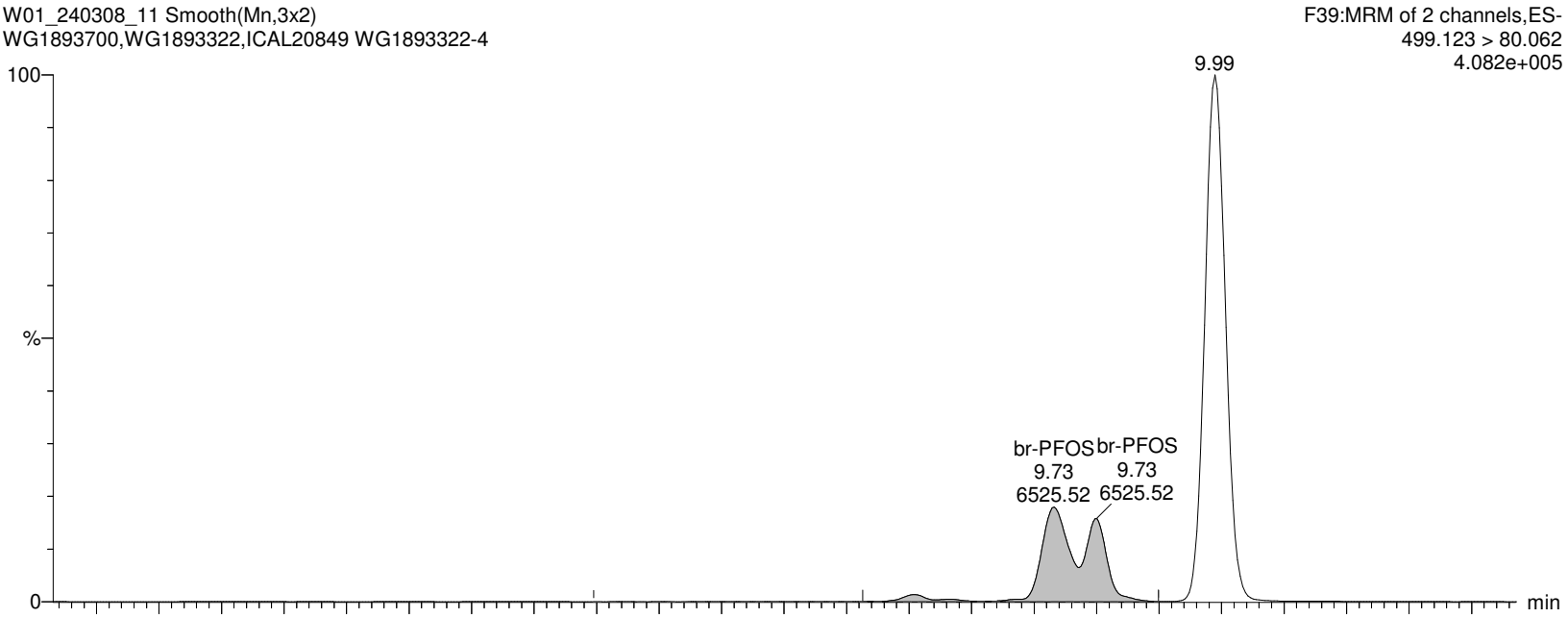

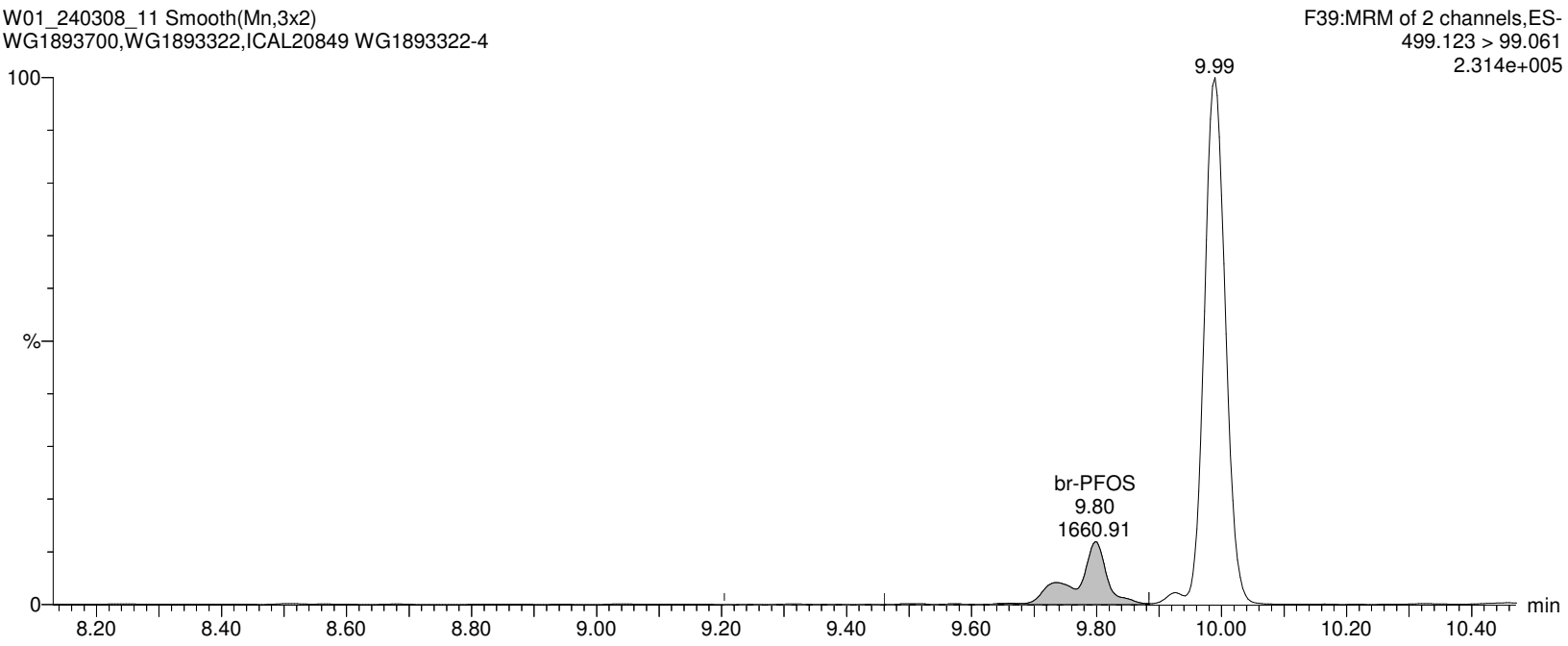

all concentration units in (ng/mL)

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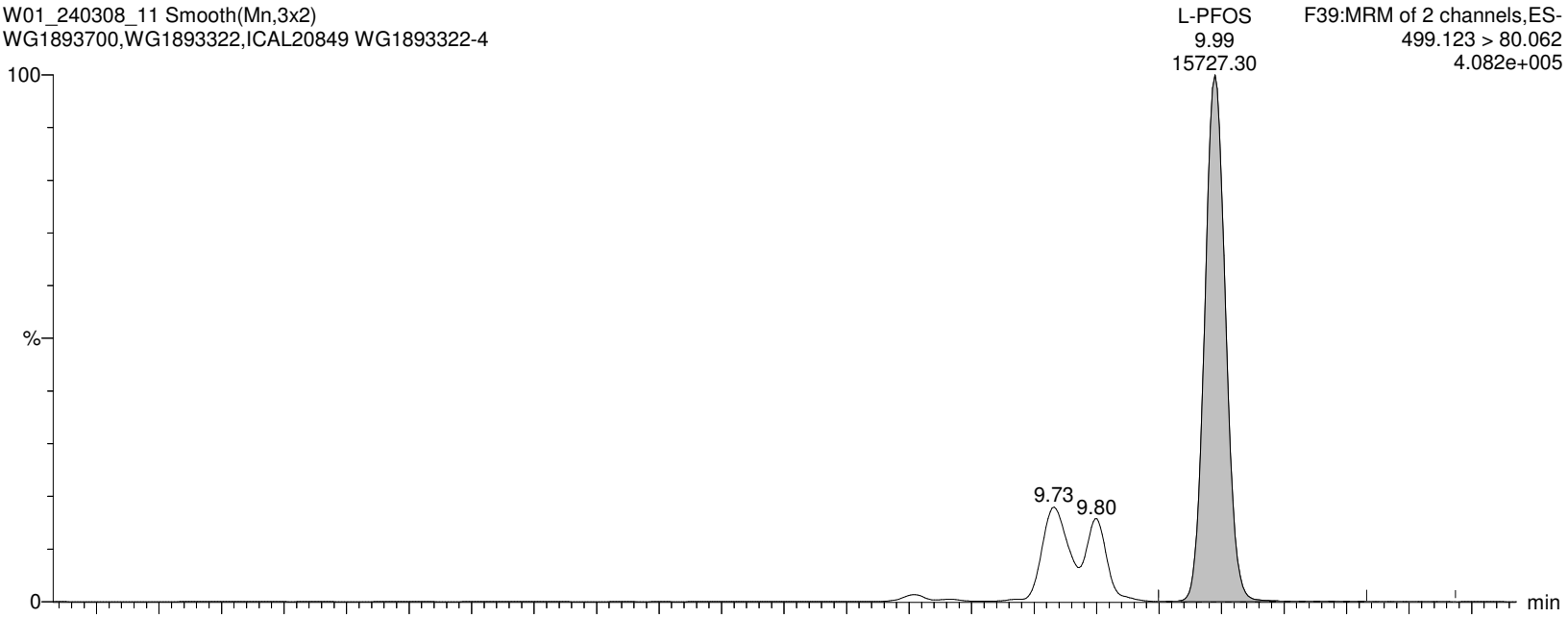
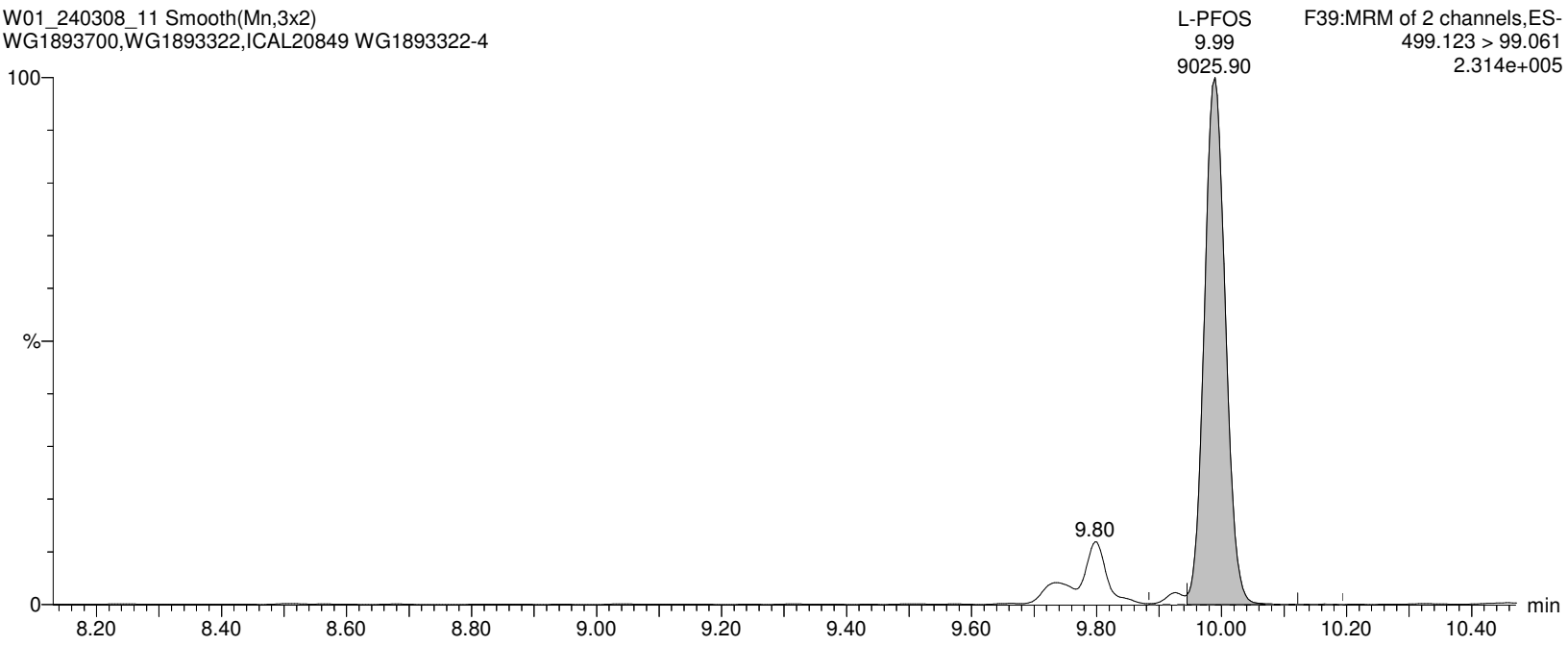
L-PFOS





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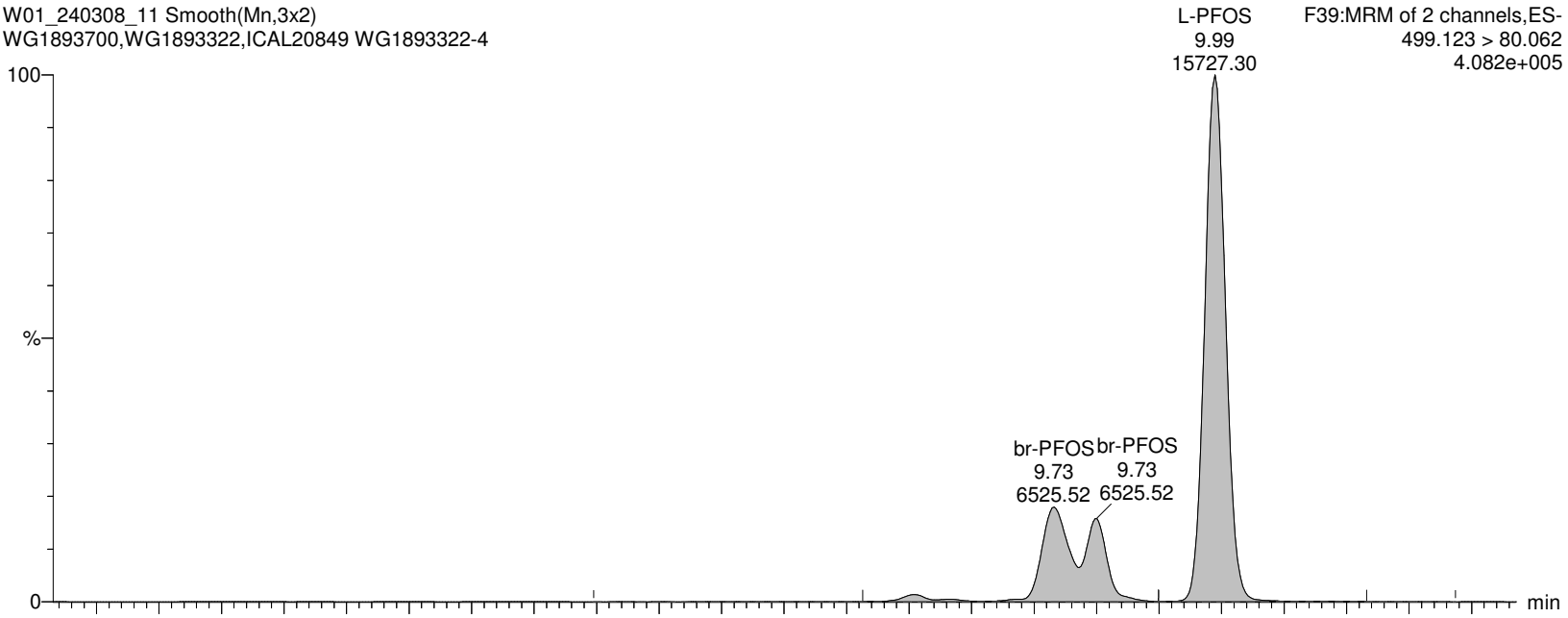

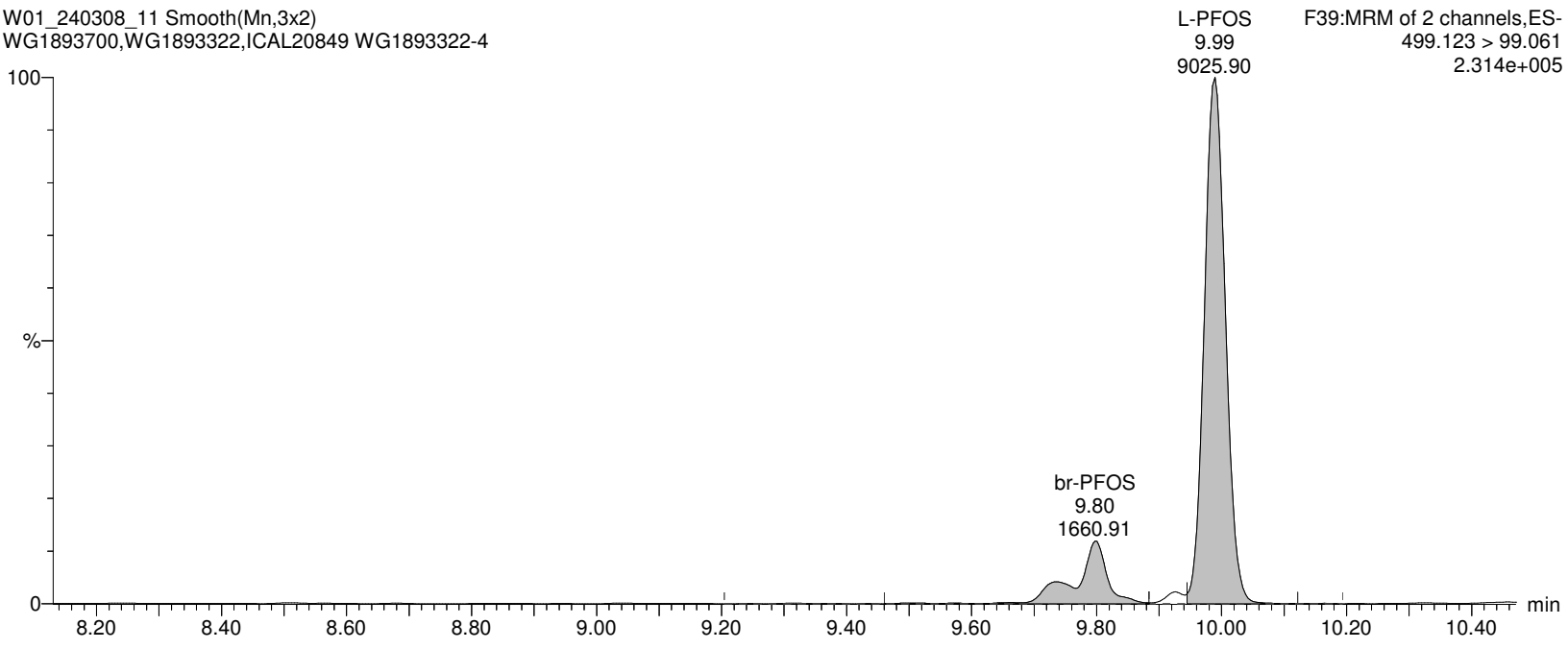

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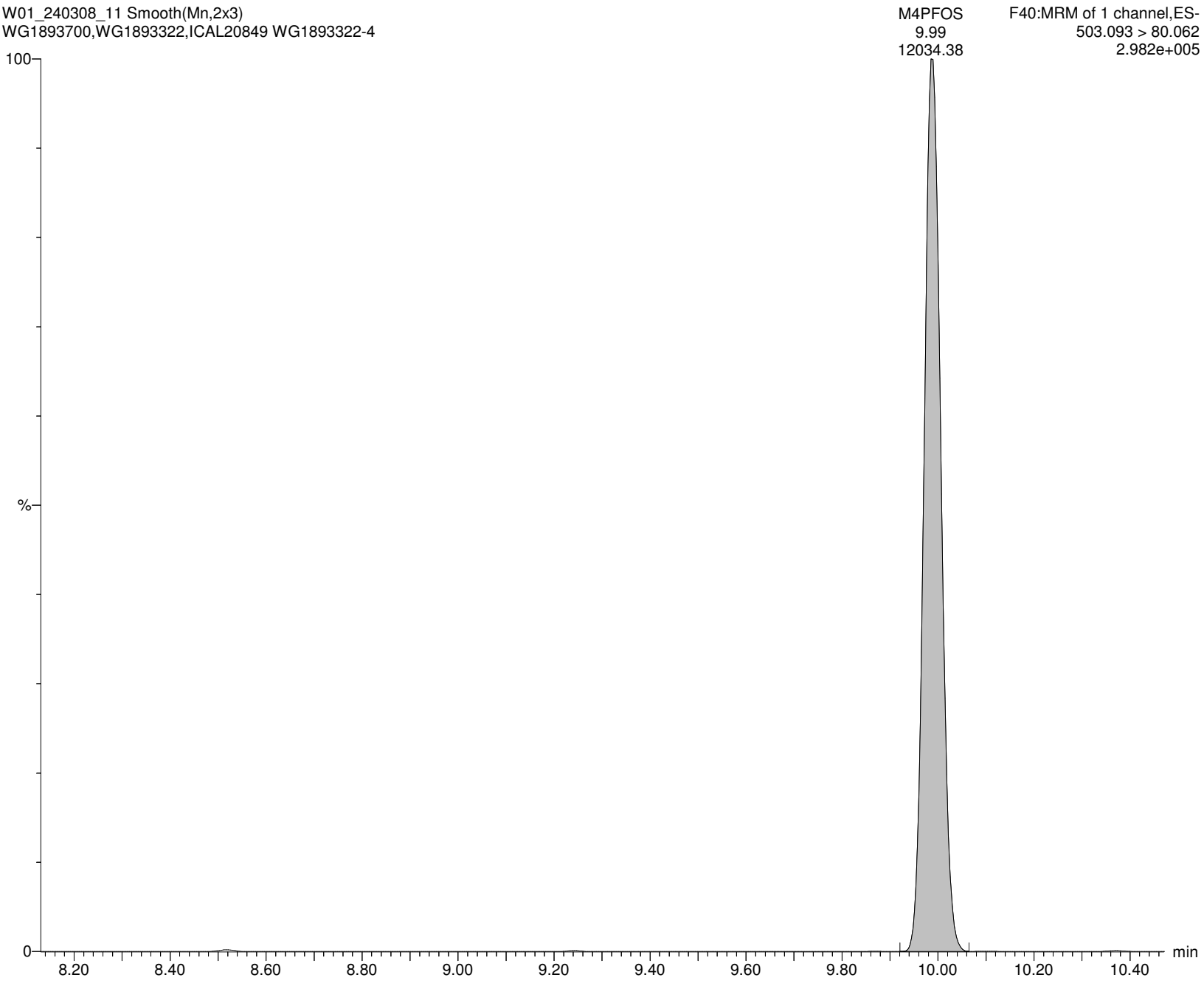

all concentration units in (ng/mL)

Alpha Analytical Inc.
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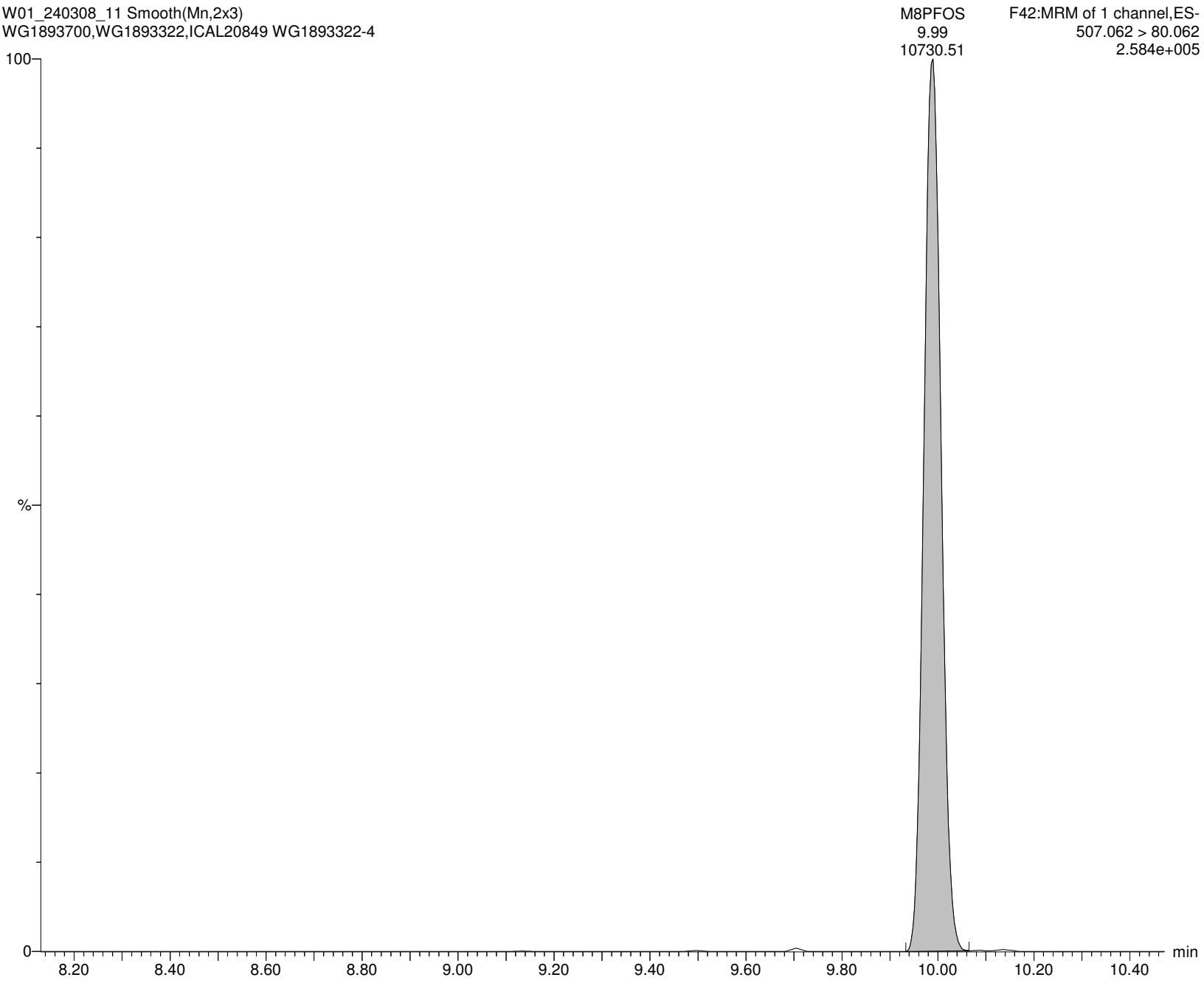

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Alpha Analytical Inc.
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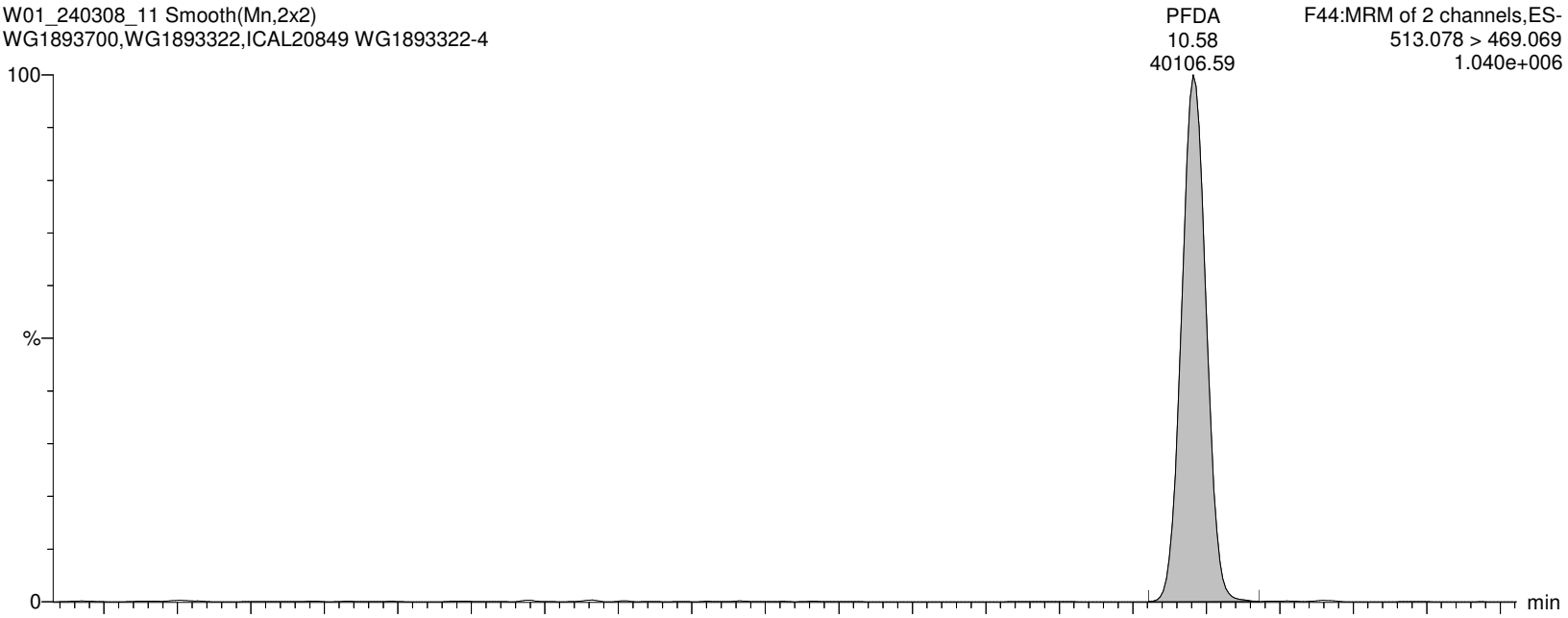

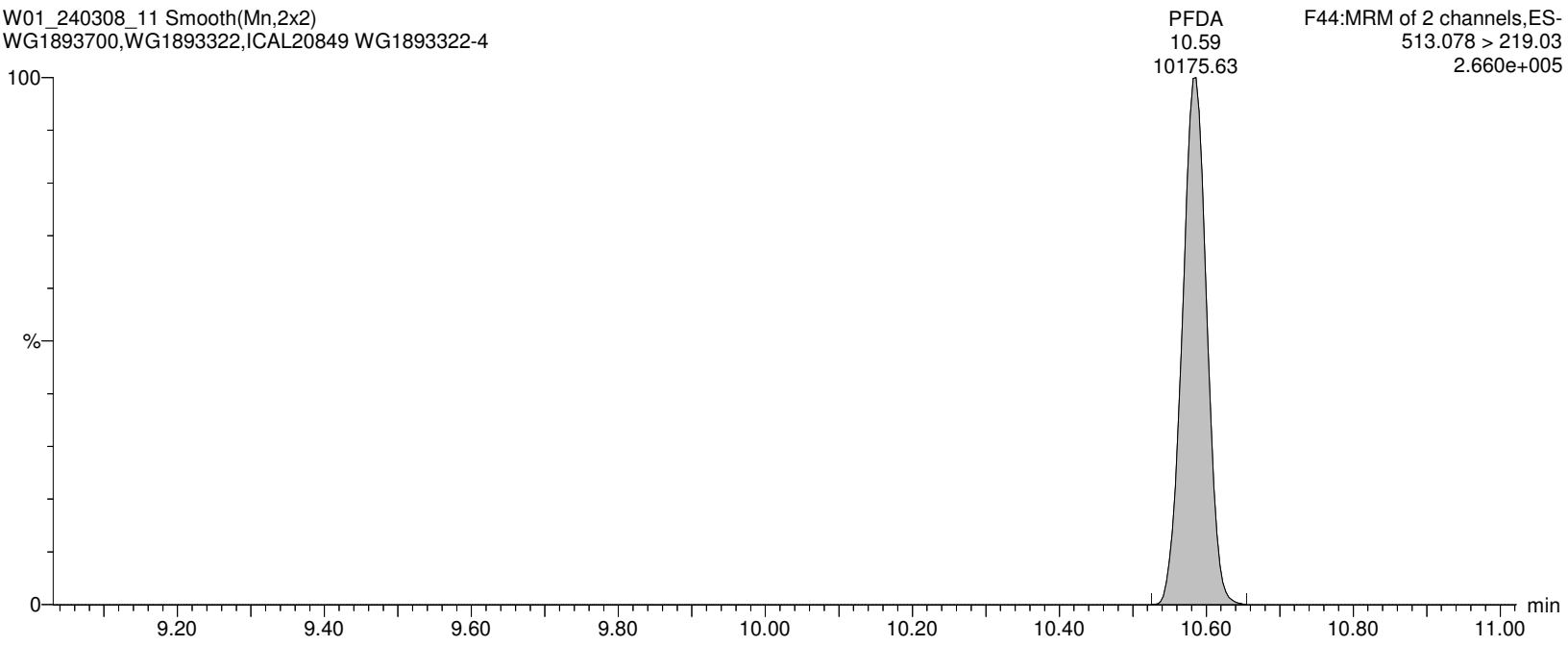

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:41 Eastern Standard Time

Name: W01_240308_11
ID: WG1893322-4
Date: 08-Mar-2024
Time: 07:49:17
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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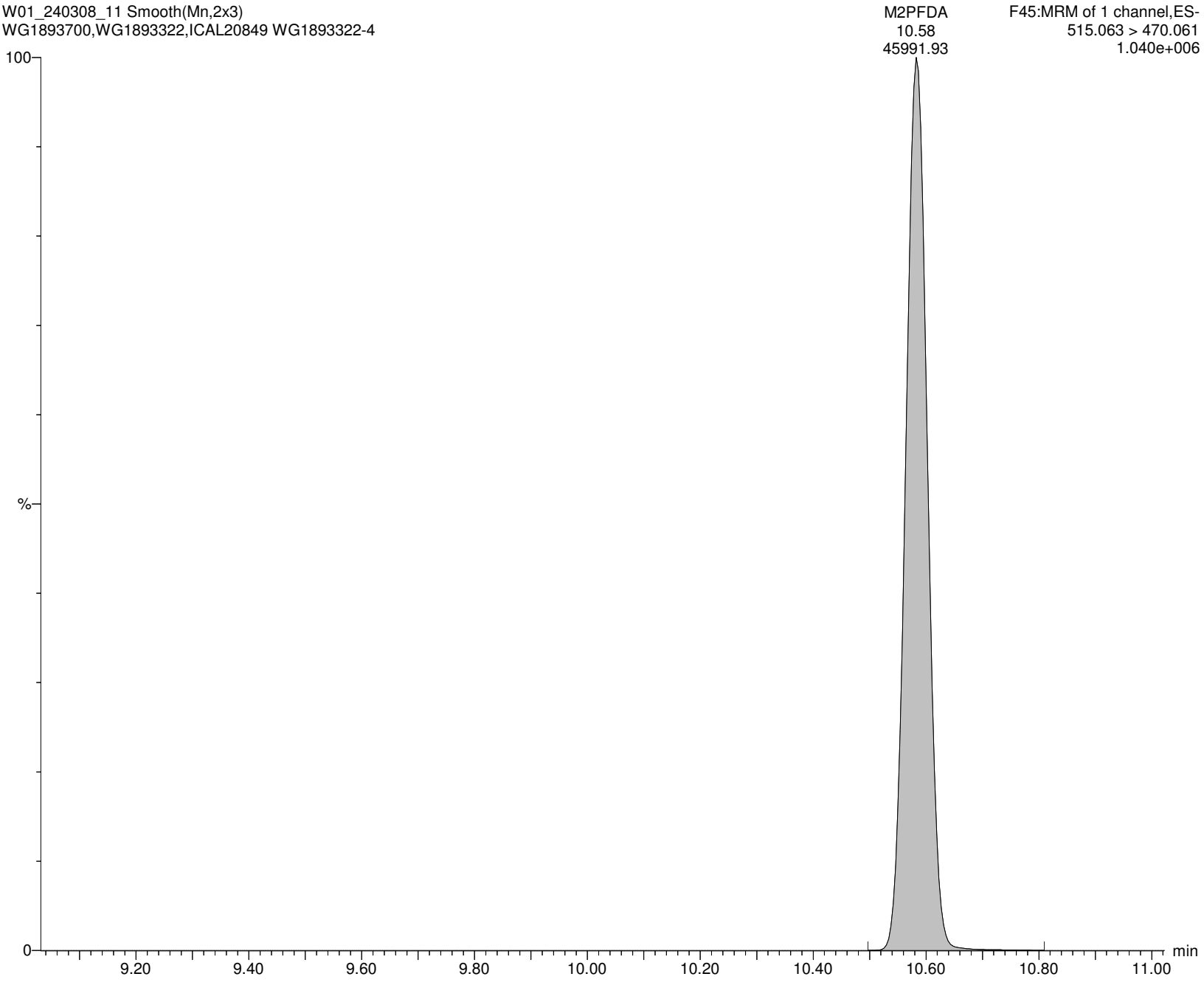

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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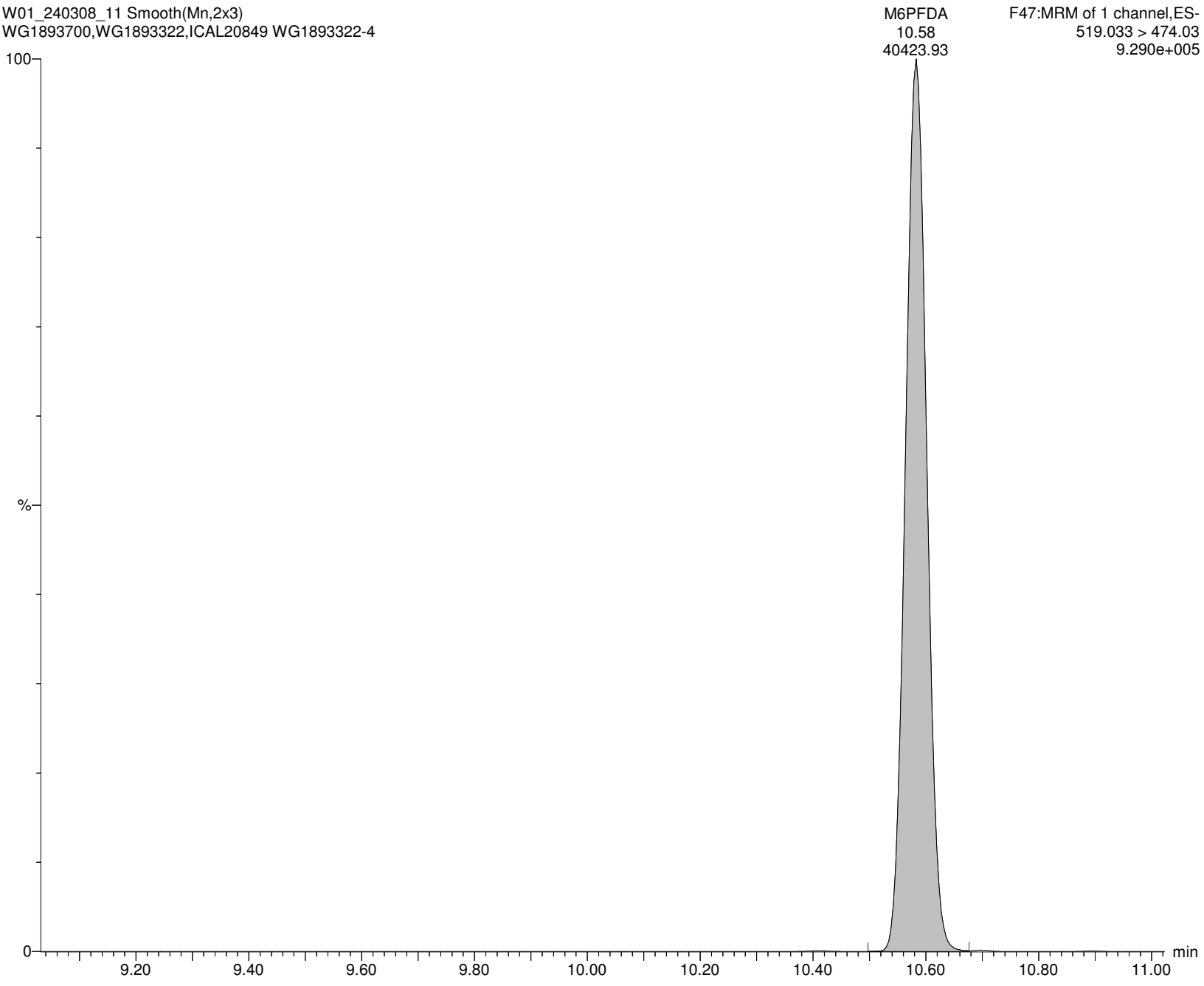
M6PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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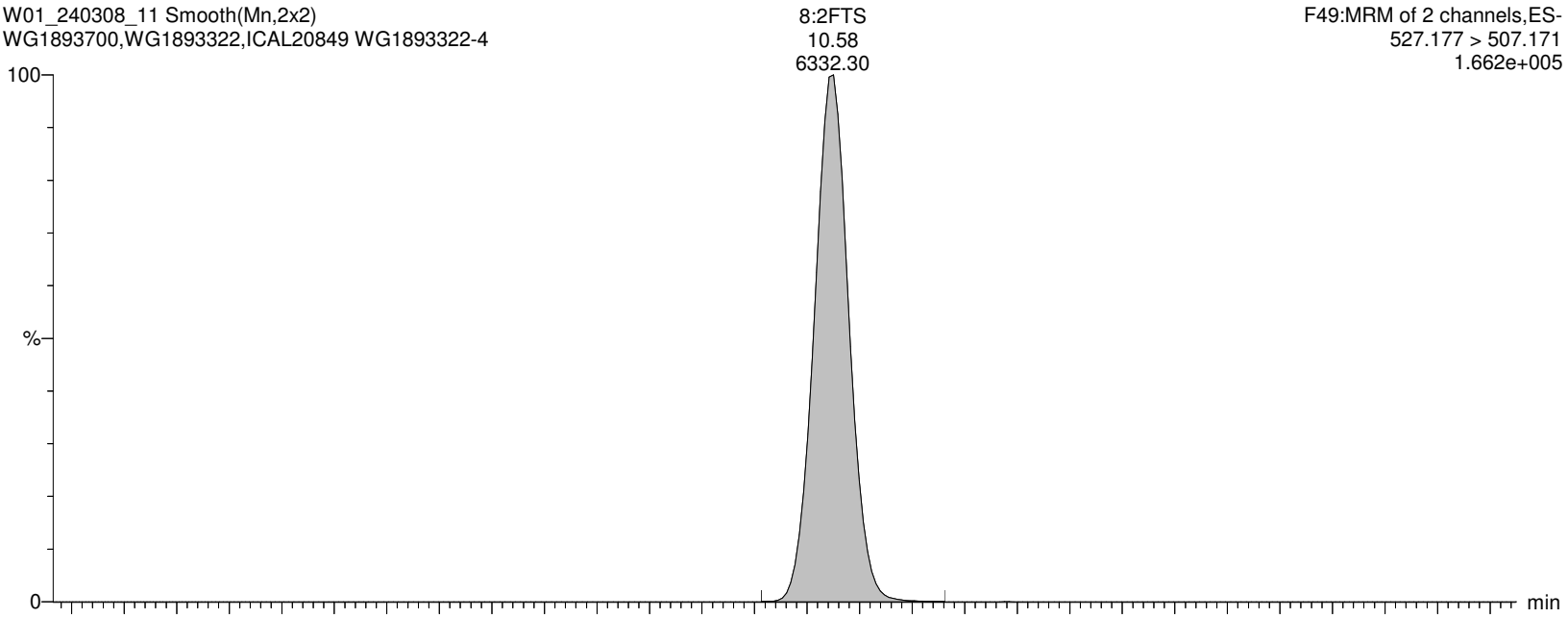
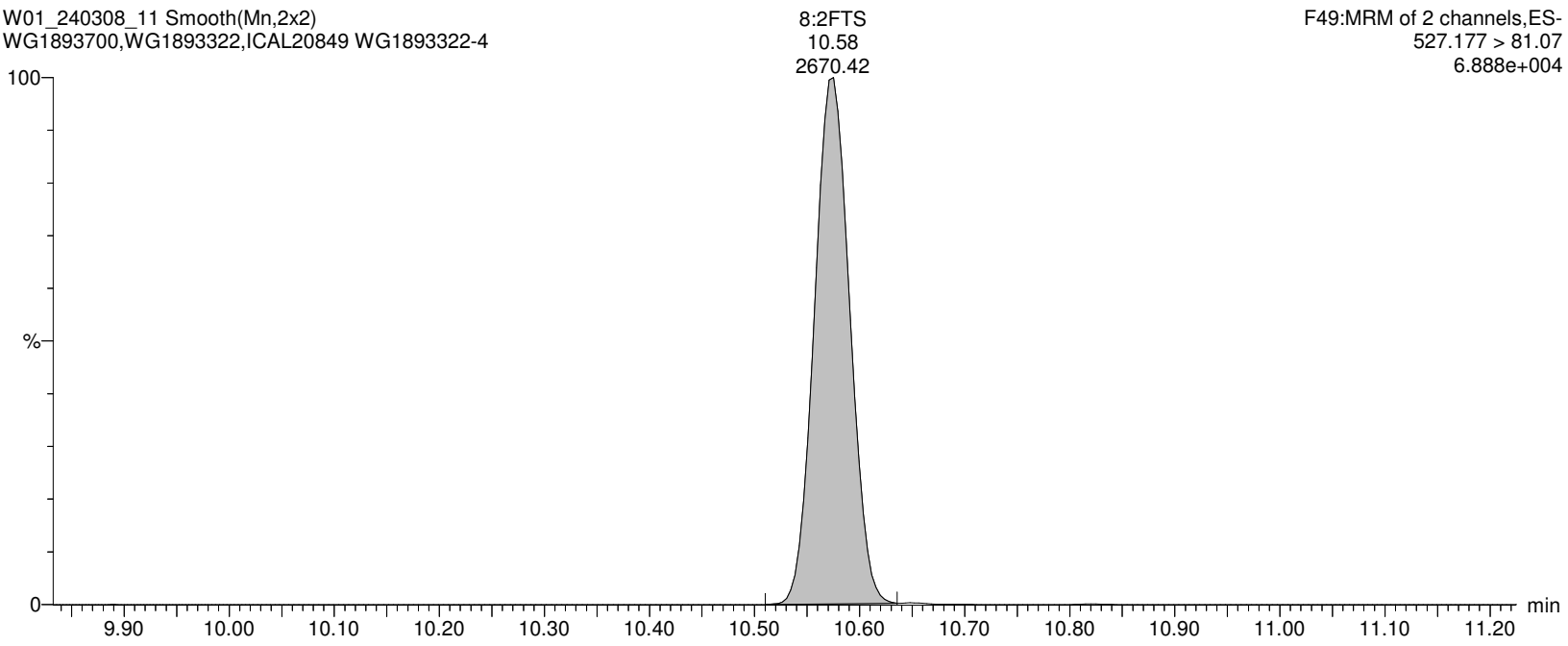
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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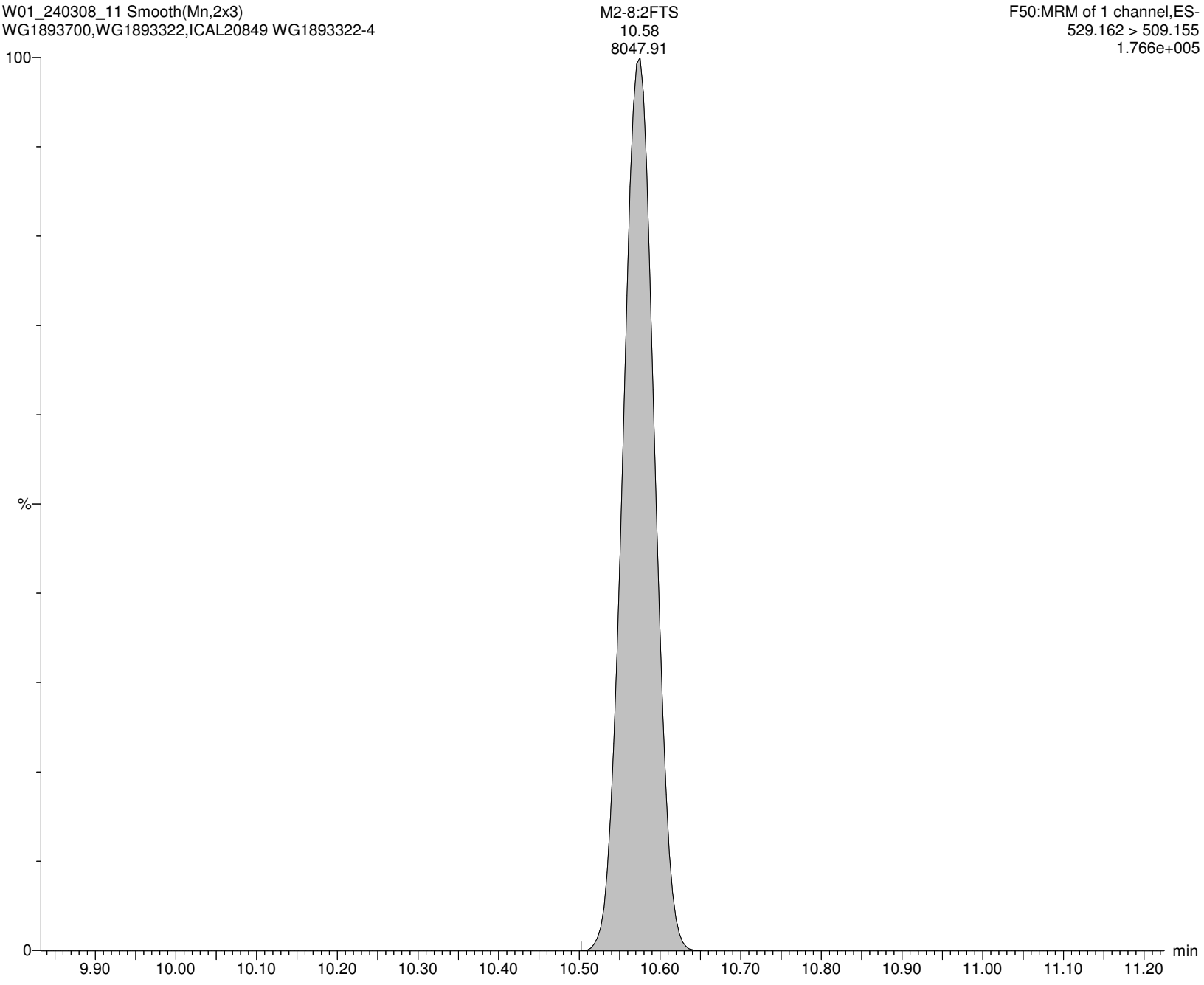
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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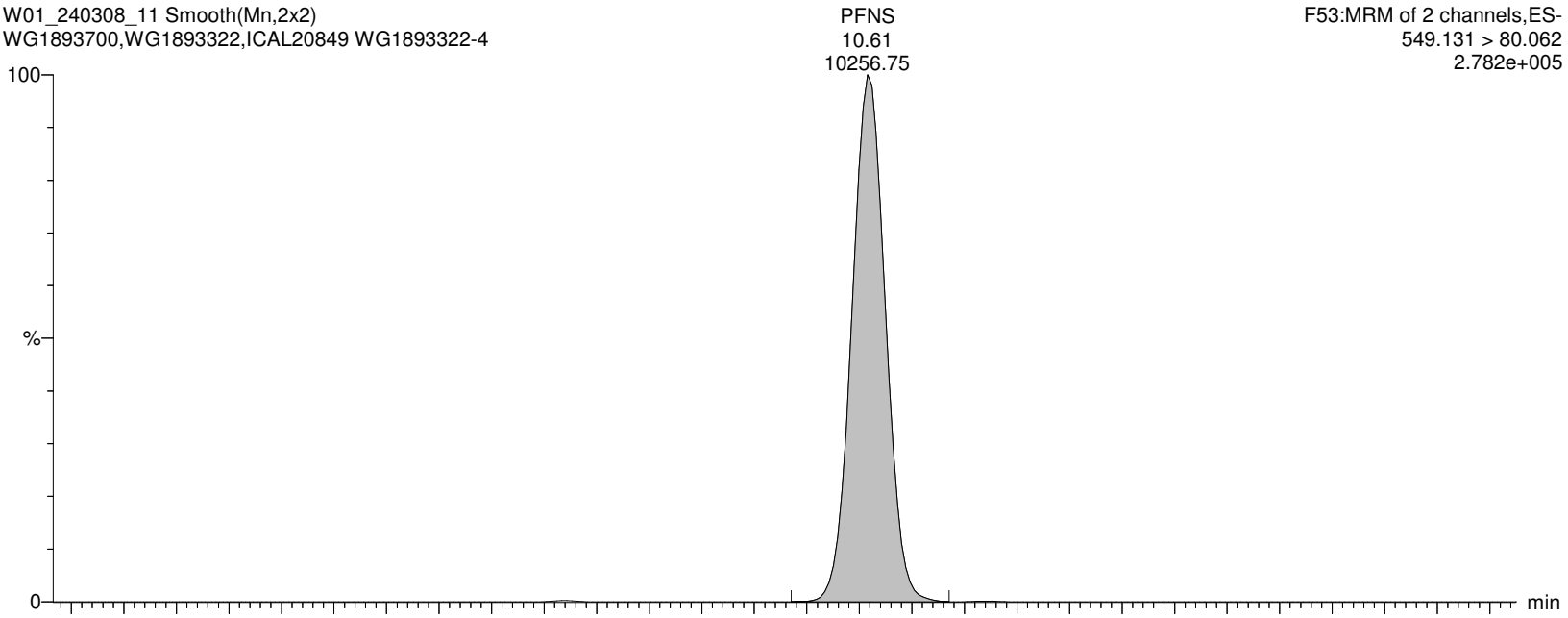

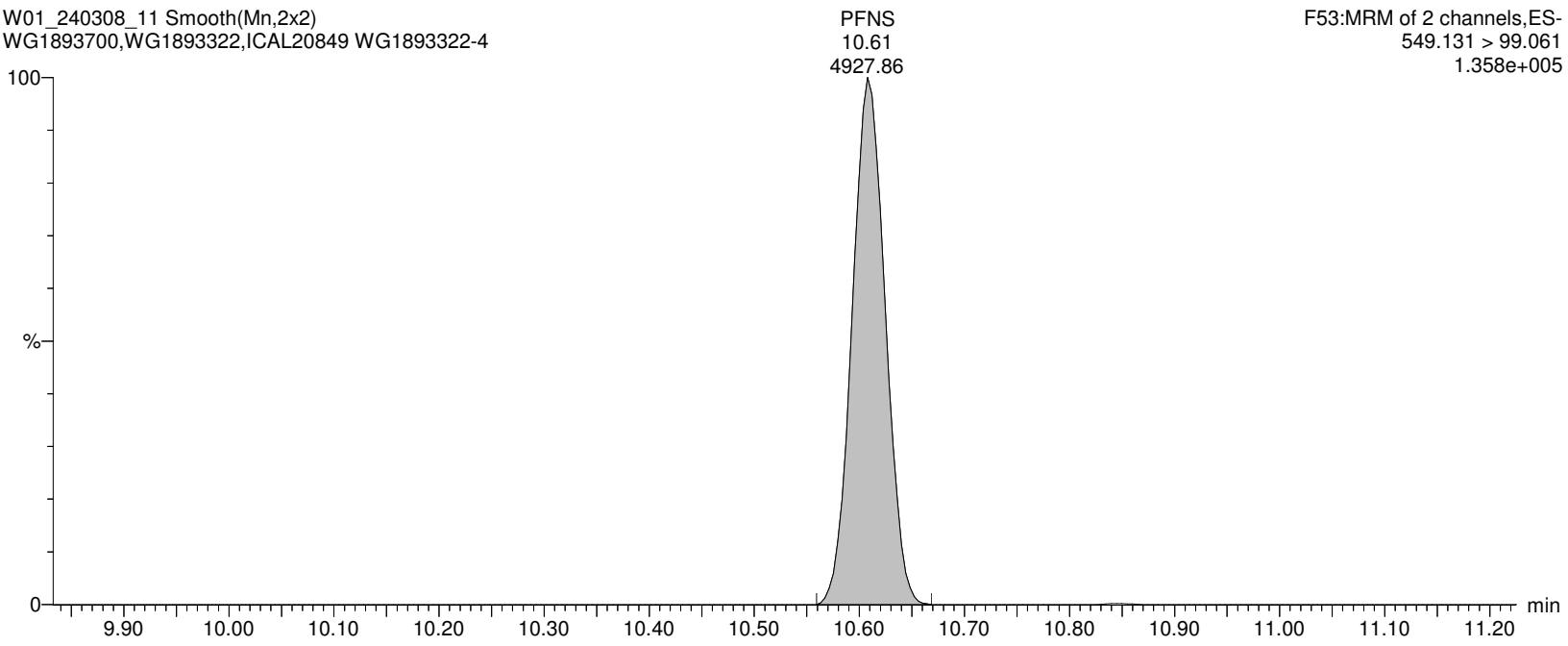

all concentration units in (ng/mL)

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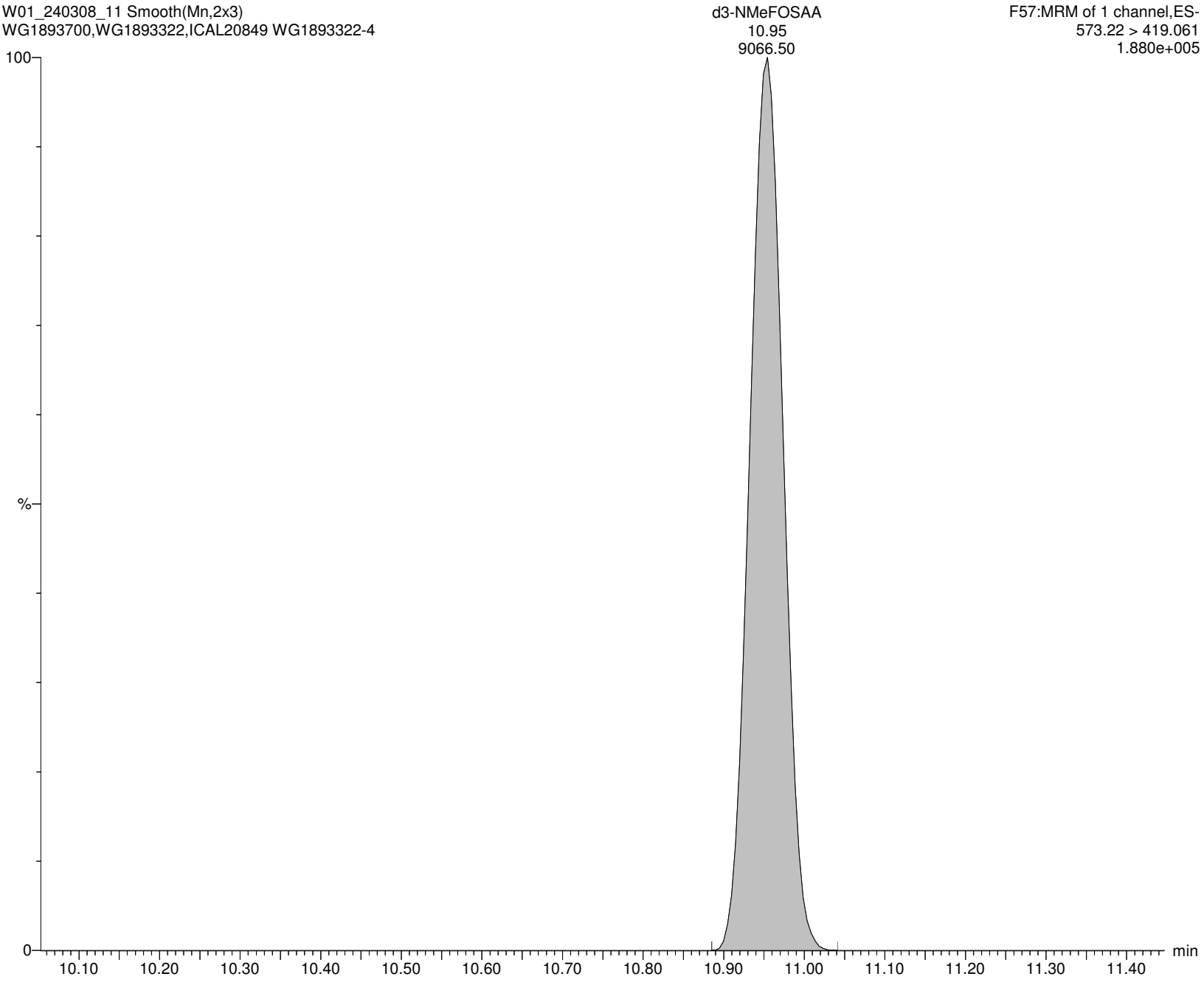
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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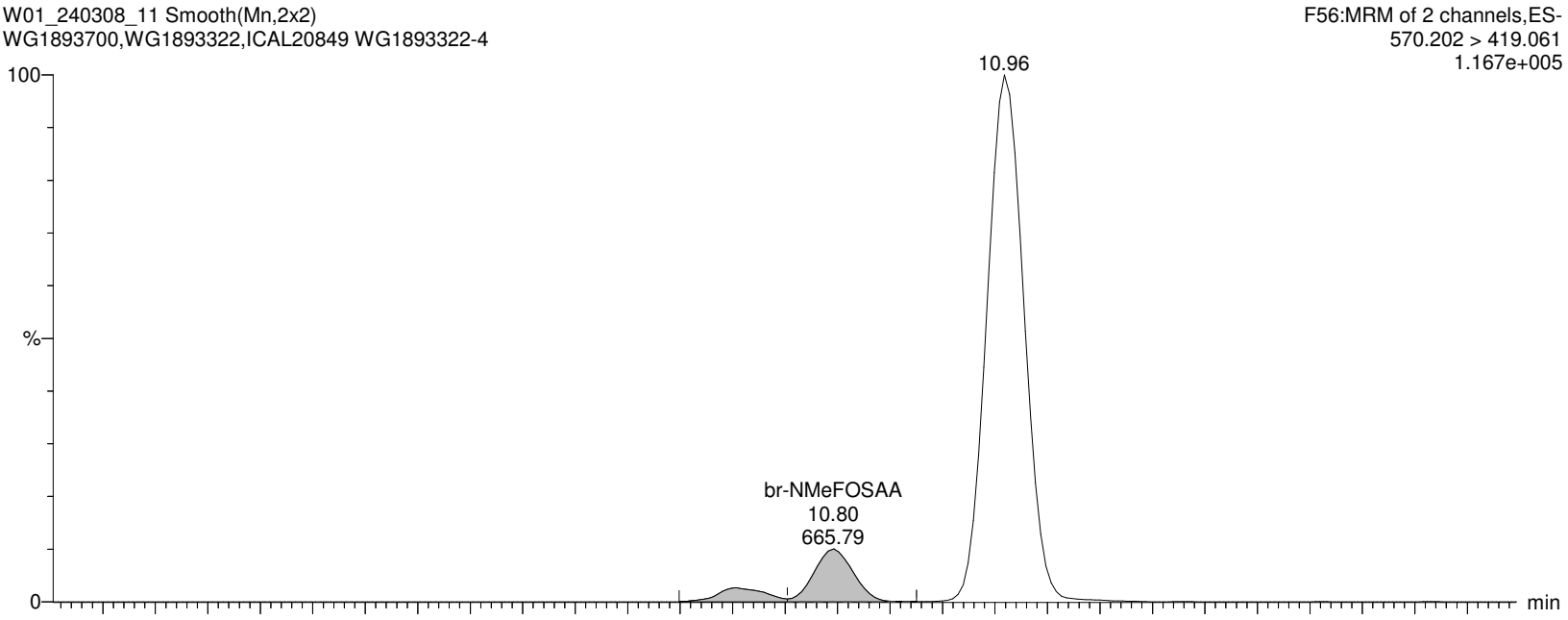

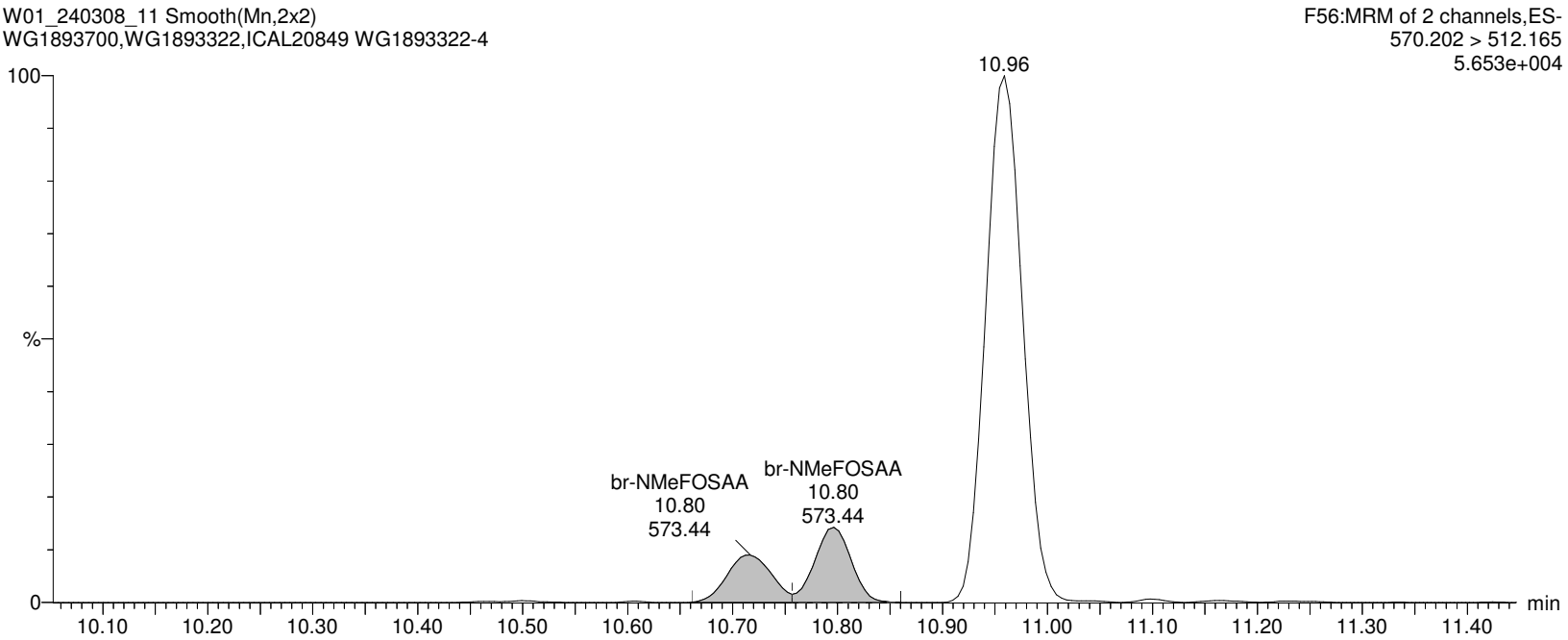

all concentration units in (ng/mL)

Alpha Analytical Inc.
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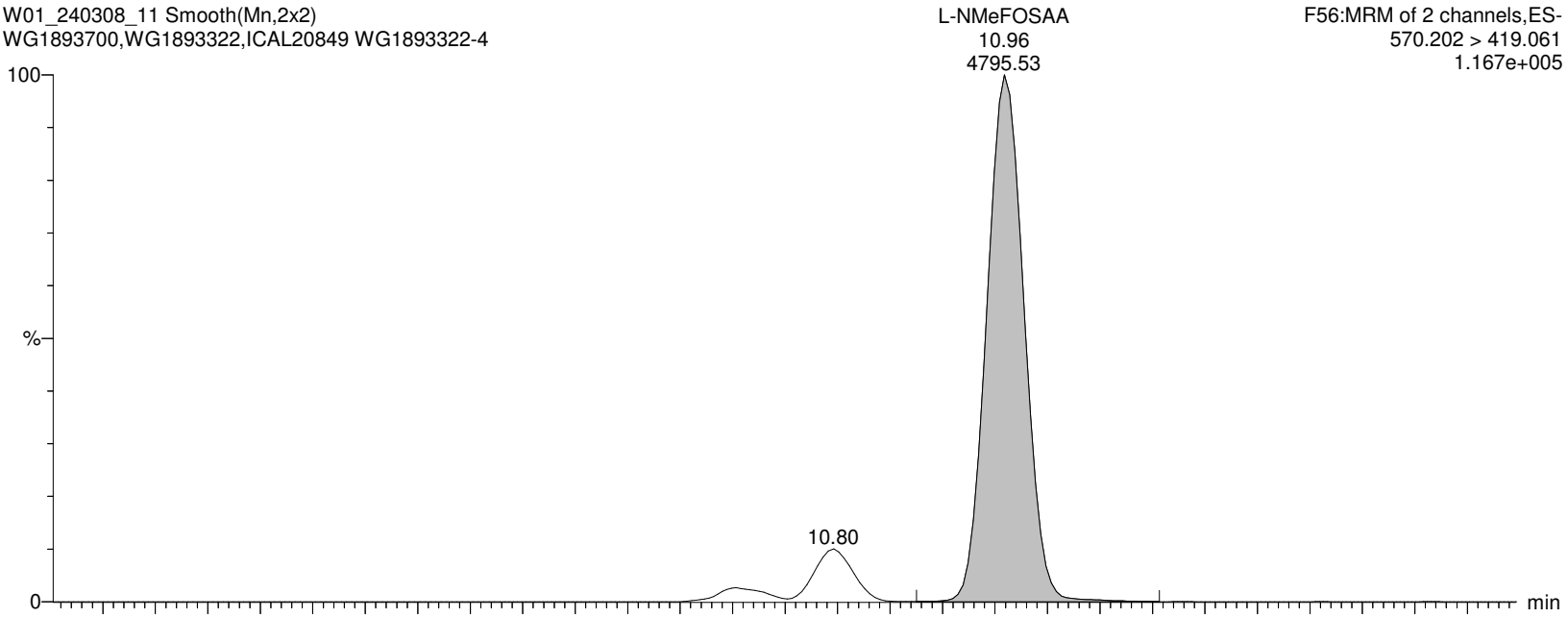

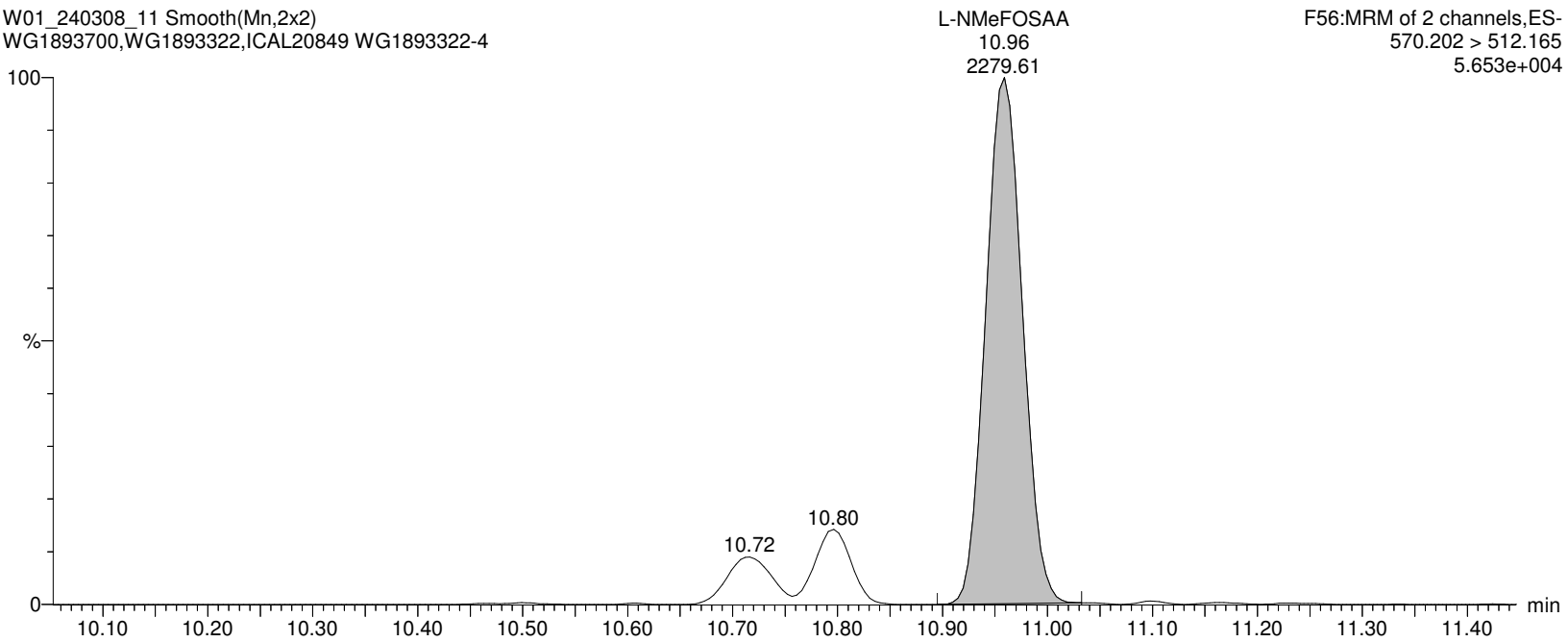

all concentration units in (ng/mL)

Alpha Analytical Inc.
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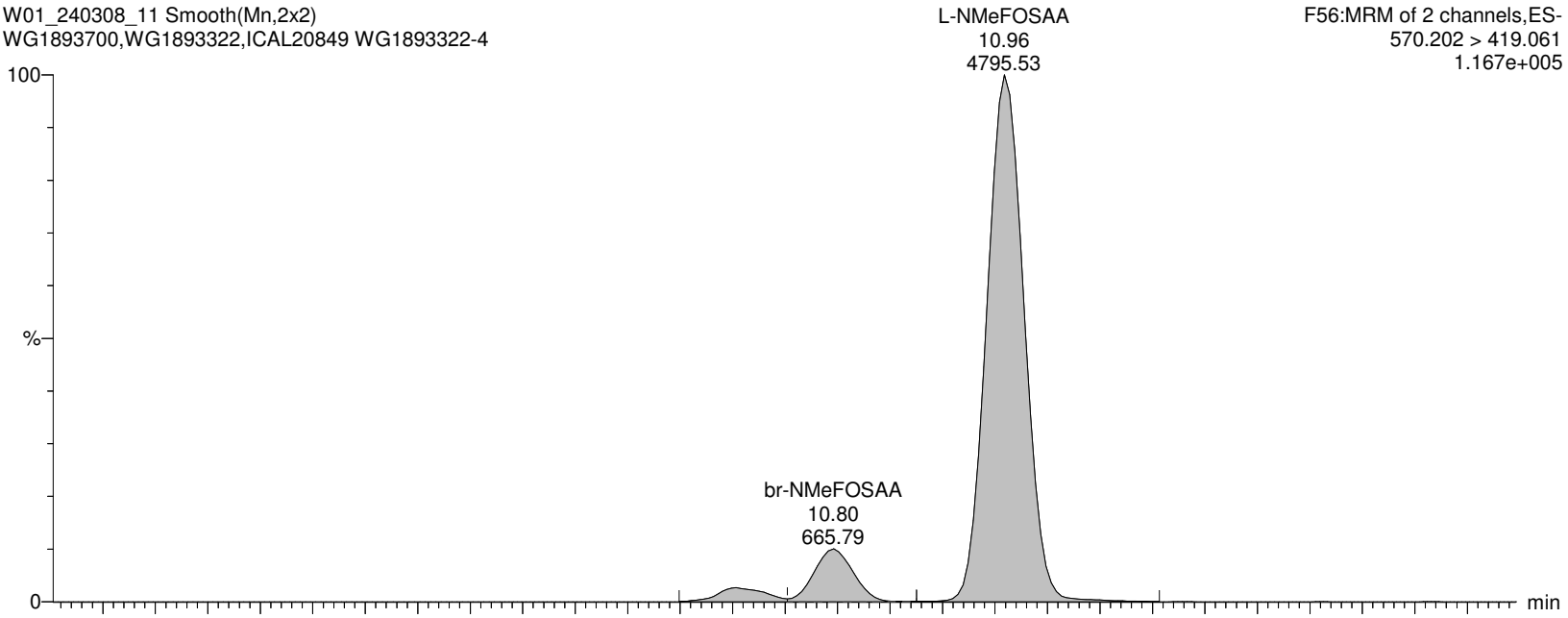

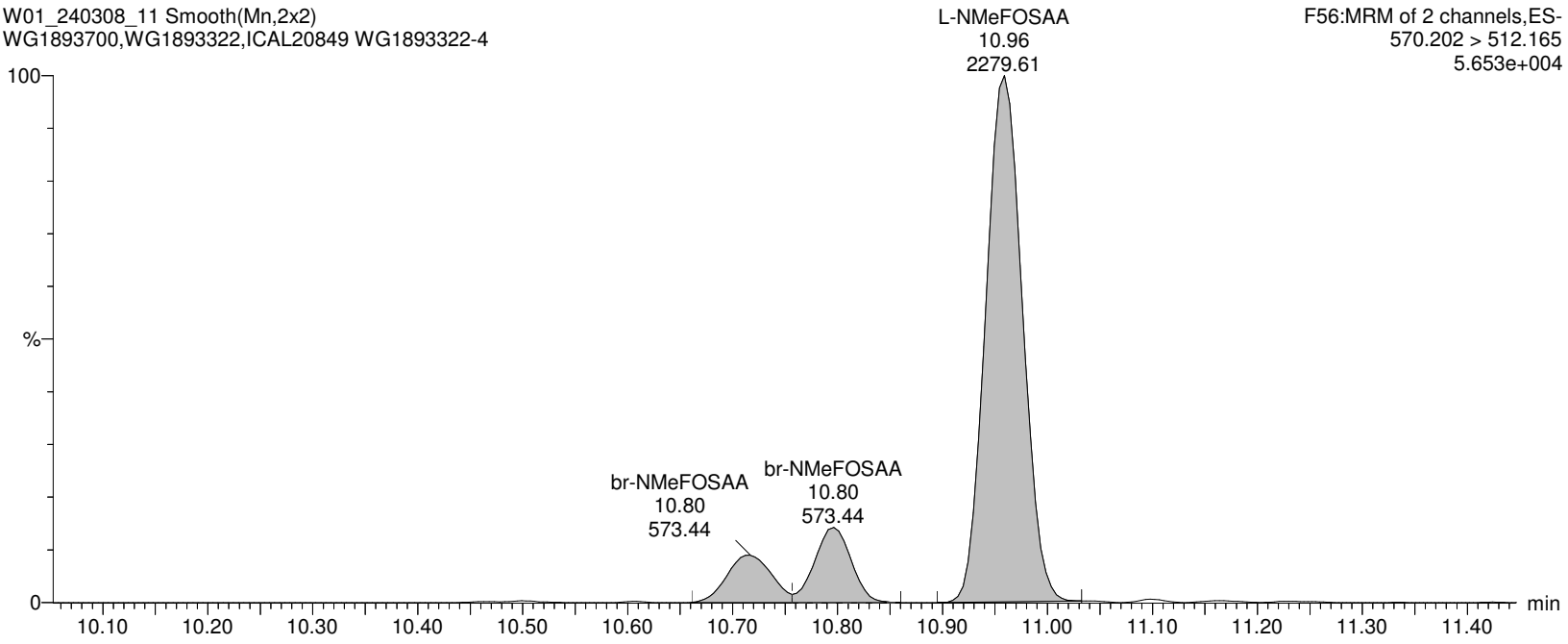

all concentration units in (ng/mL)

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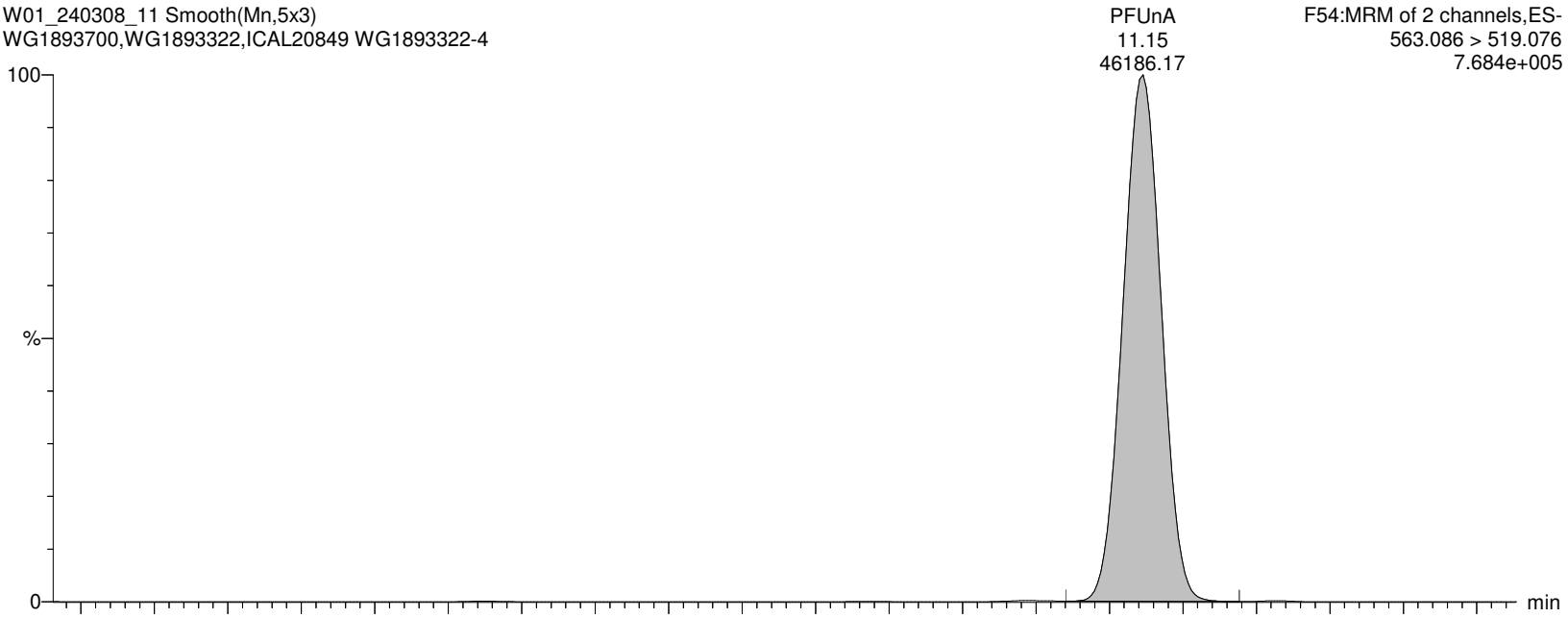

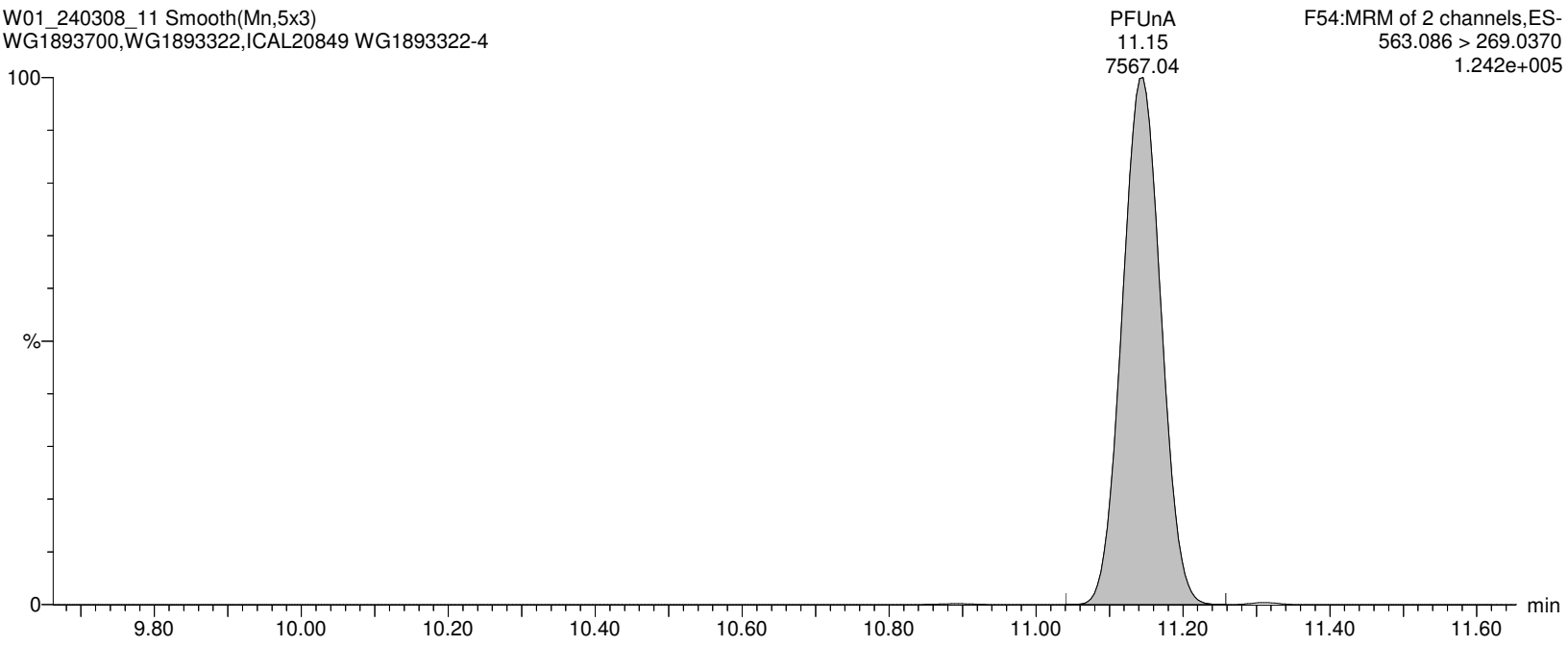

all concentration units in (ng/mL)

Alpha Analytical Inc.
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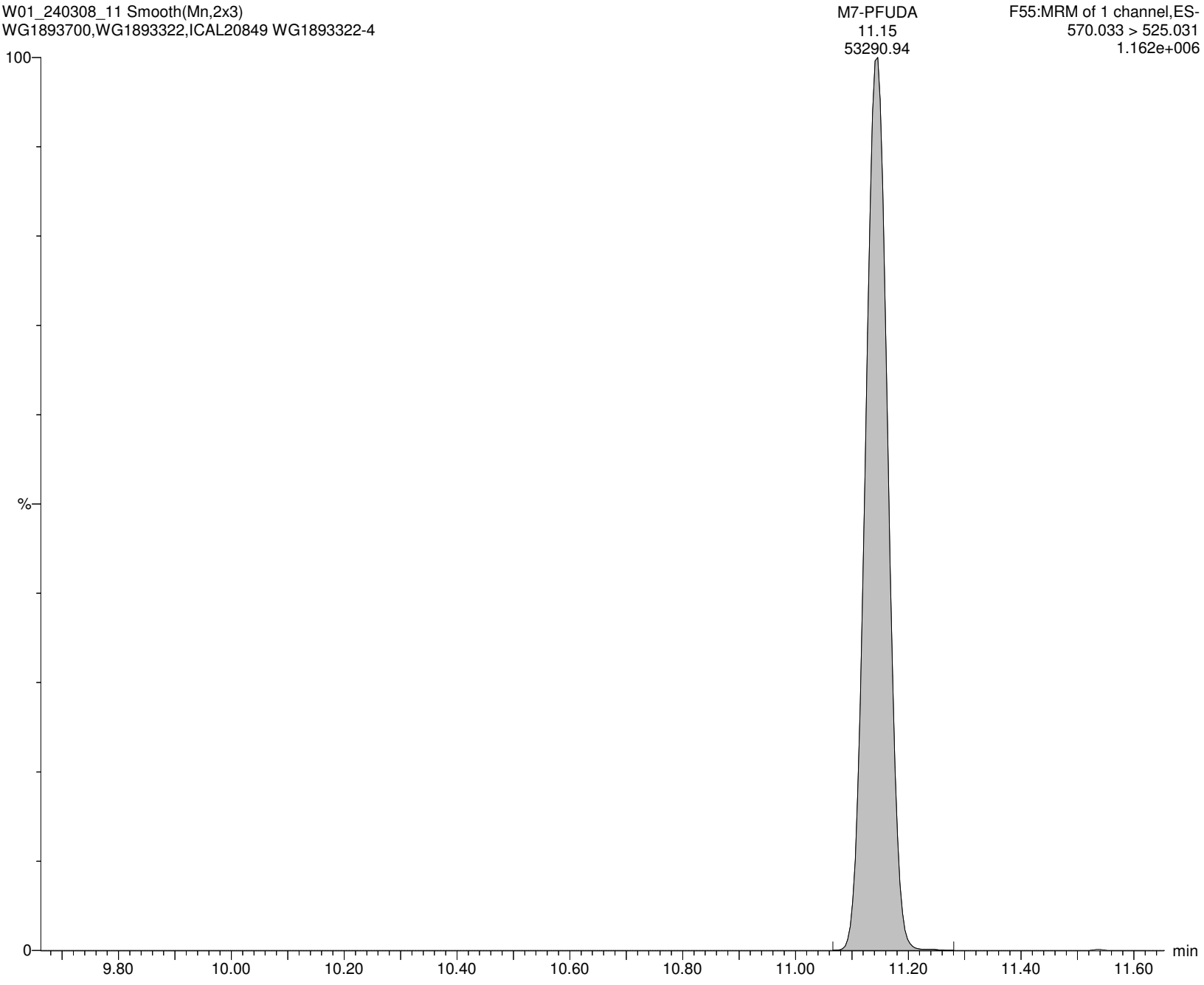
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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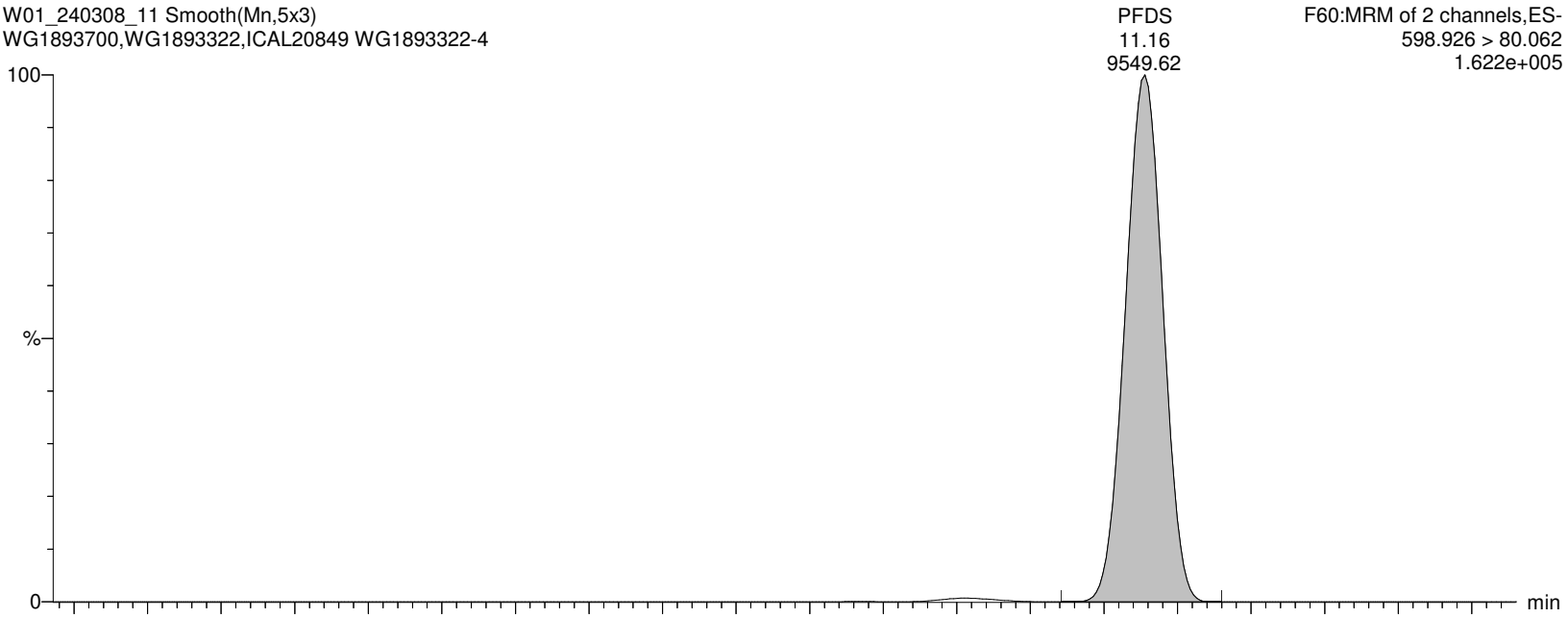

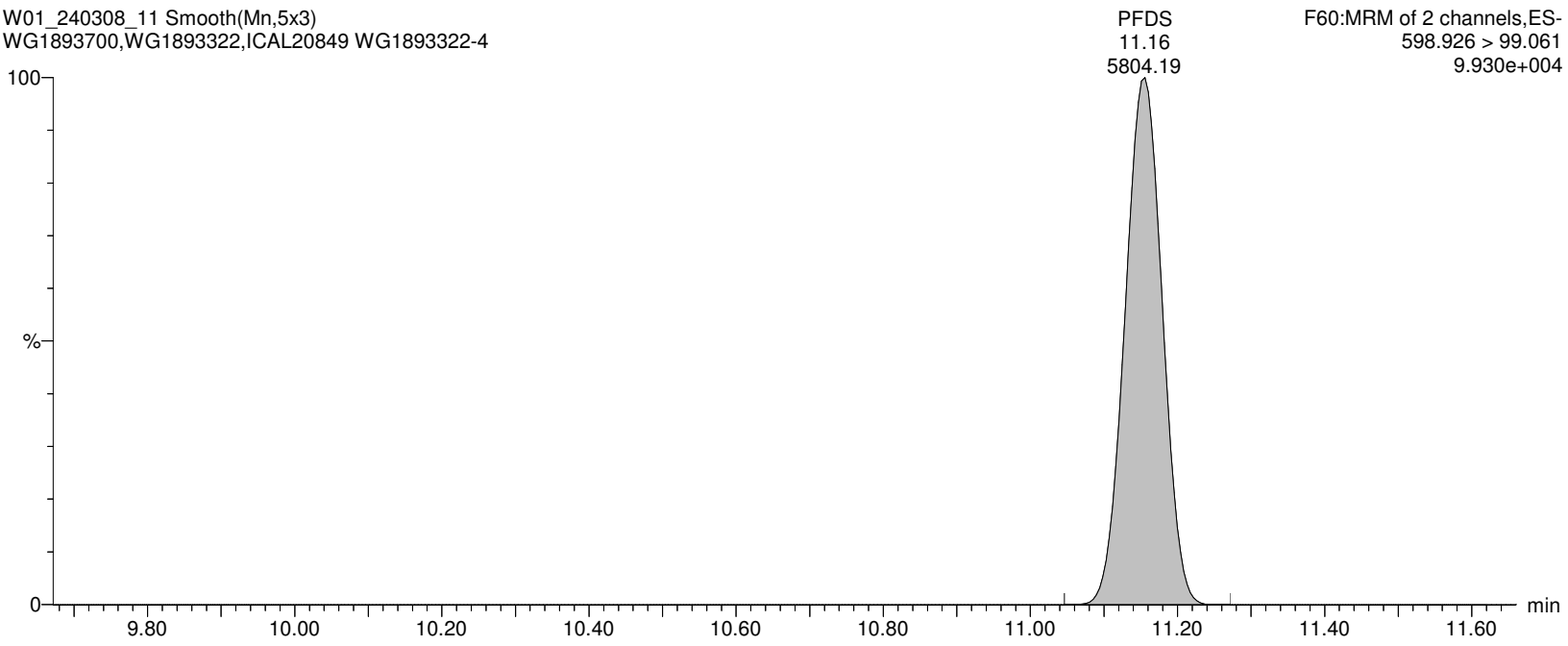

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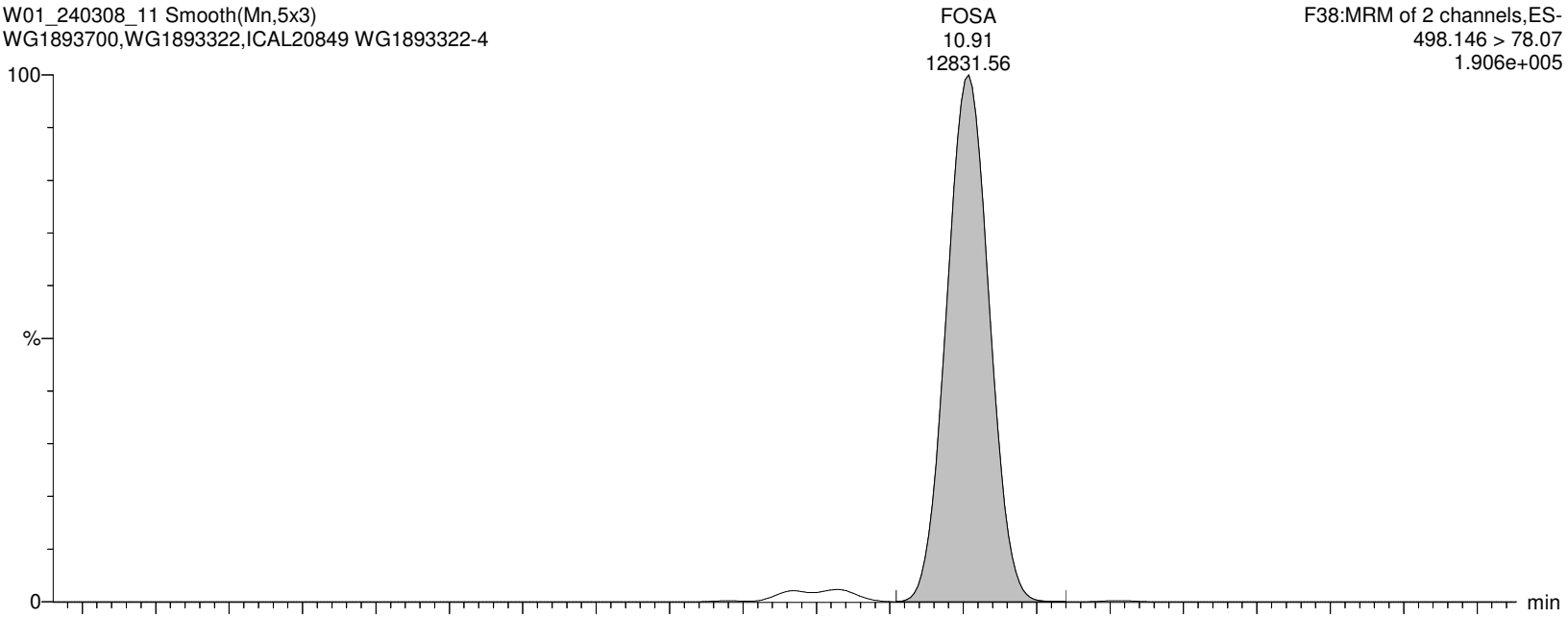

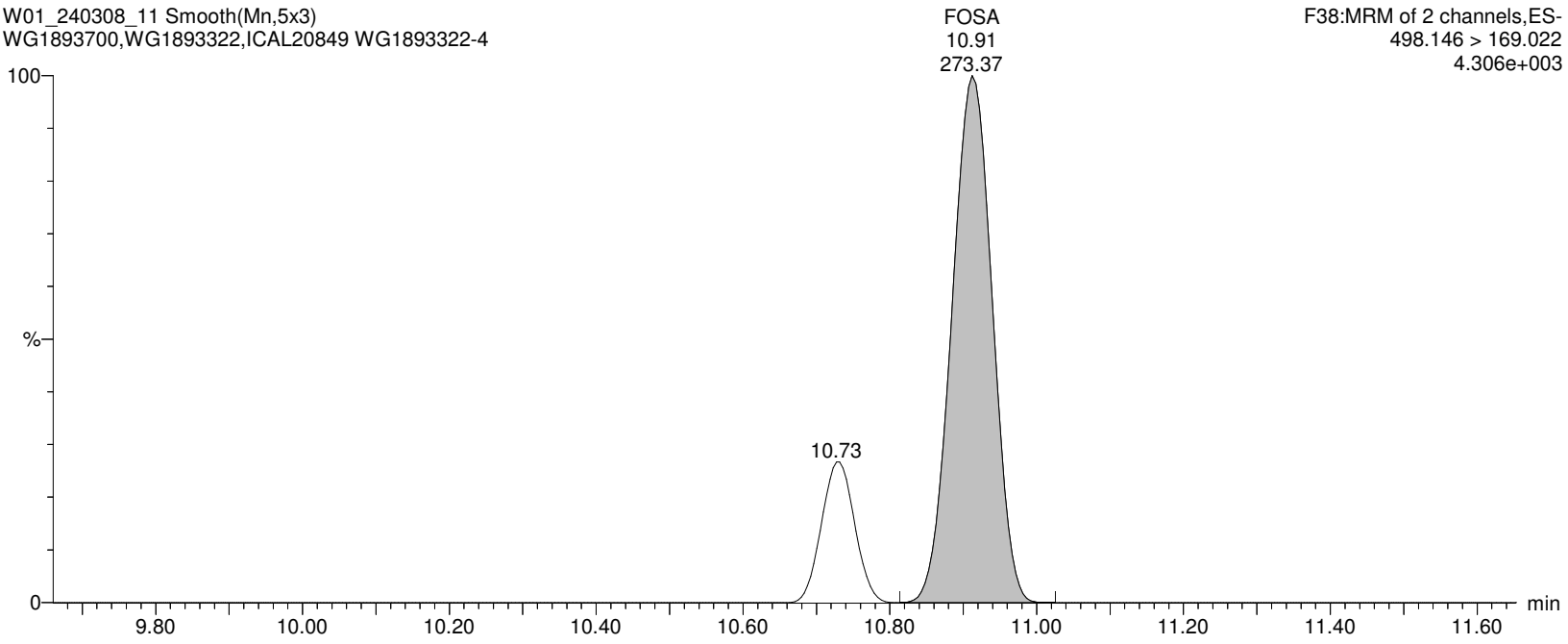

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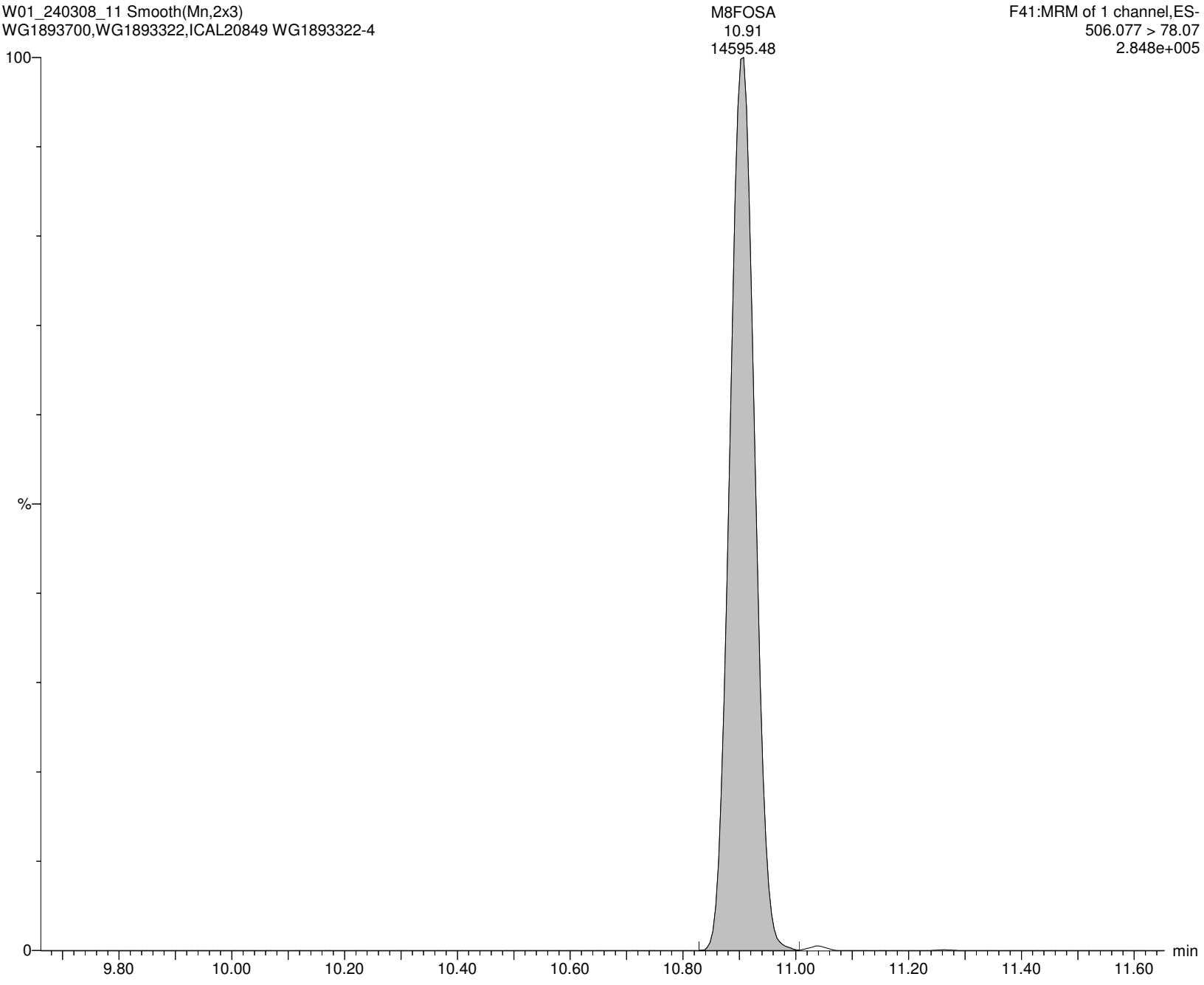

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Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
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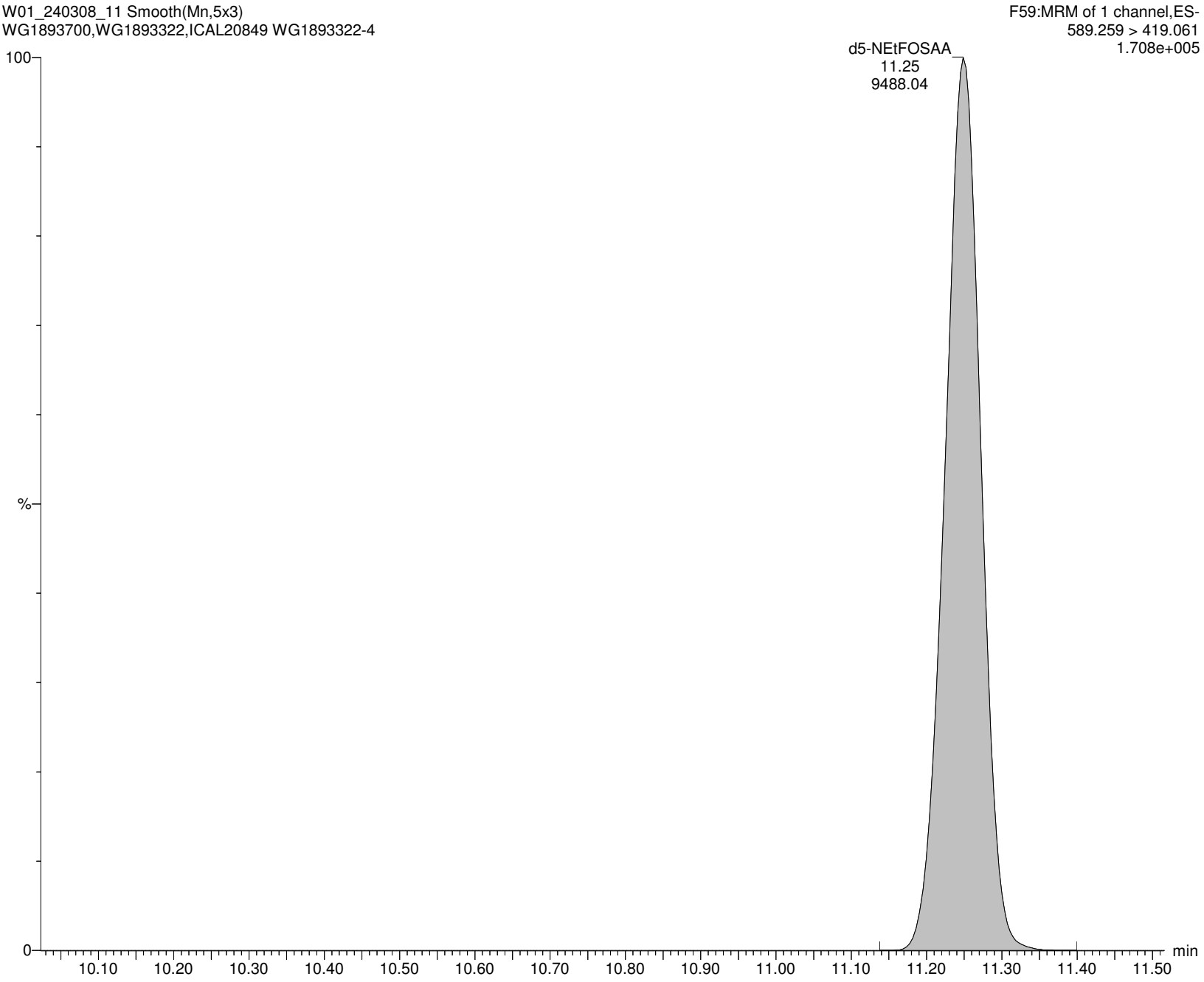
MS Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\537ISO_M_SPAN2_DOD_TOP_240209.EXP

d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
Printed: Friday, March 08, 2024 15:07:41 Eastern Standard Time

Name: W01_240308_11
ID: WG1893322-4
Date: 08-Mar-2024
Time: 07:49:17
Description: WG1893700,WG1893322,ICAL20849
User: LCMS01:AC
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\LCMS_537_ISO_FULL
Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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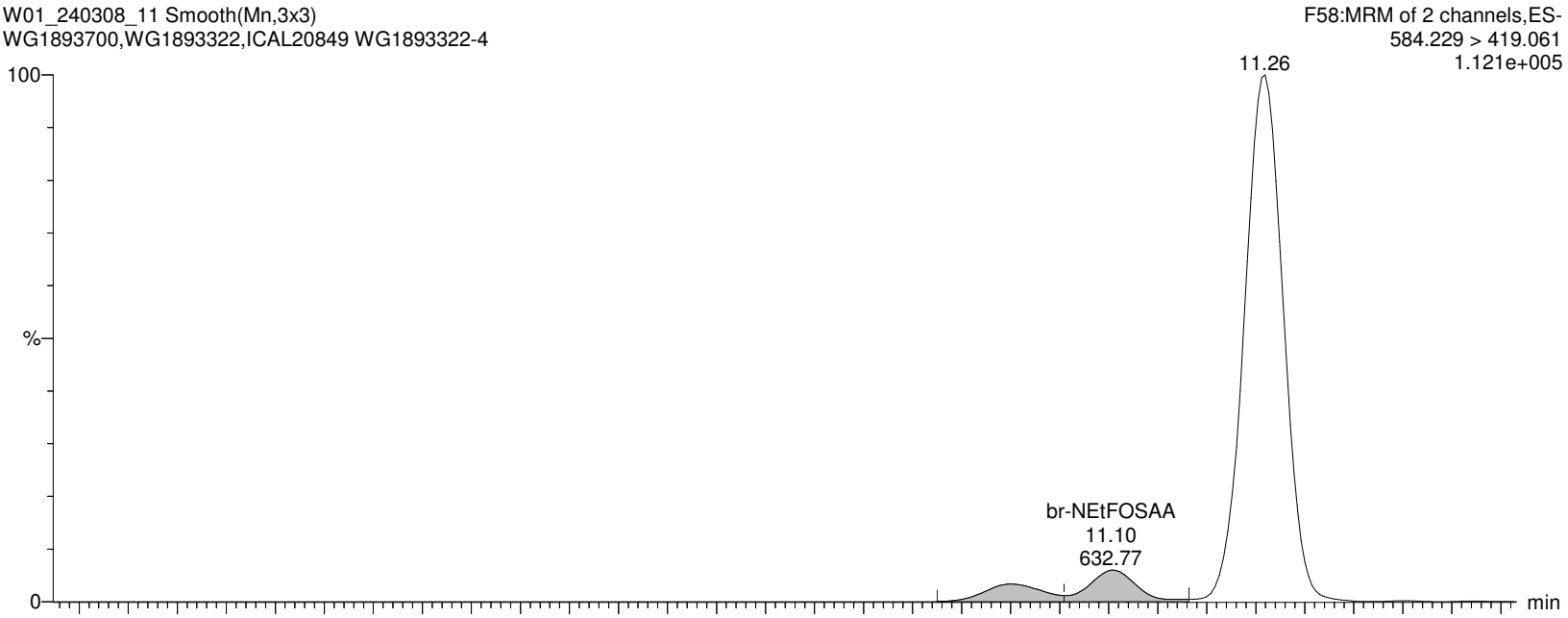
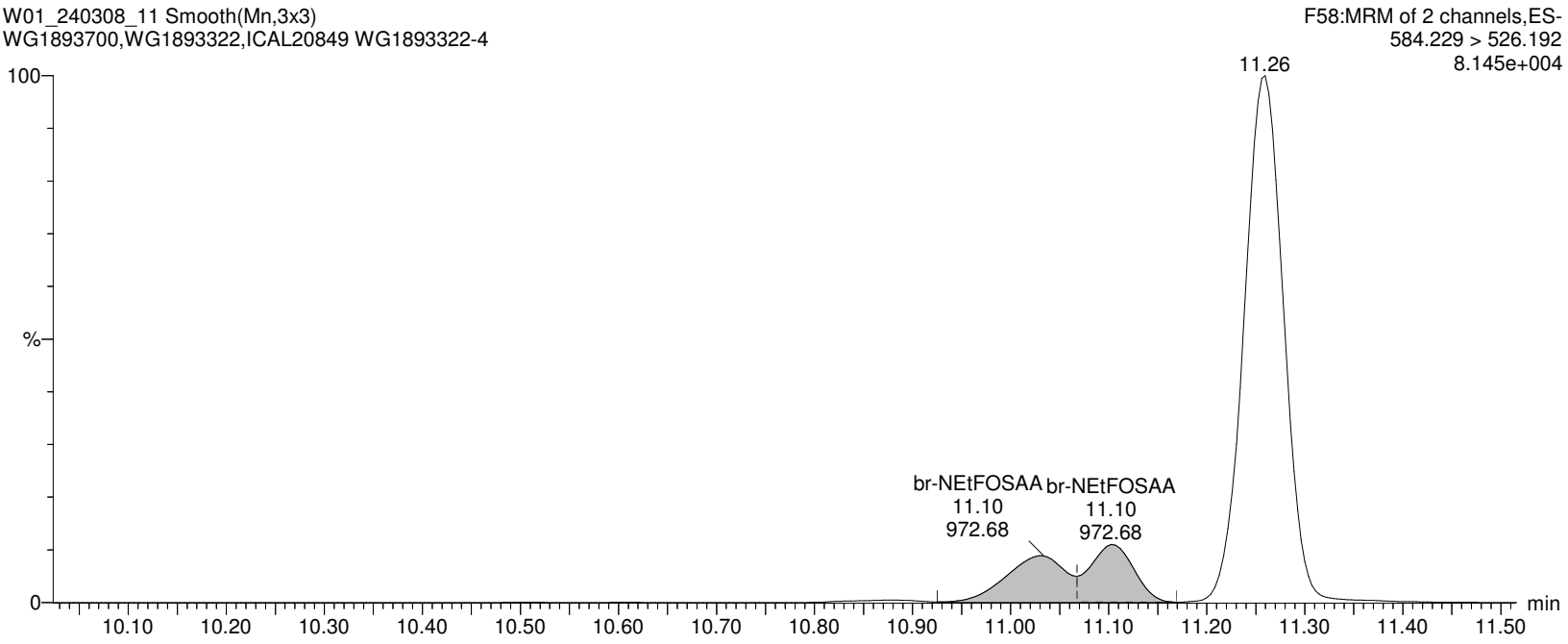
br-NEtFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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Tune Method Name: C:\MassLynx\Data\2024\240308_537ISO.PRO\ACQUDB\240208X_TUNE.IPR
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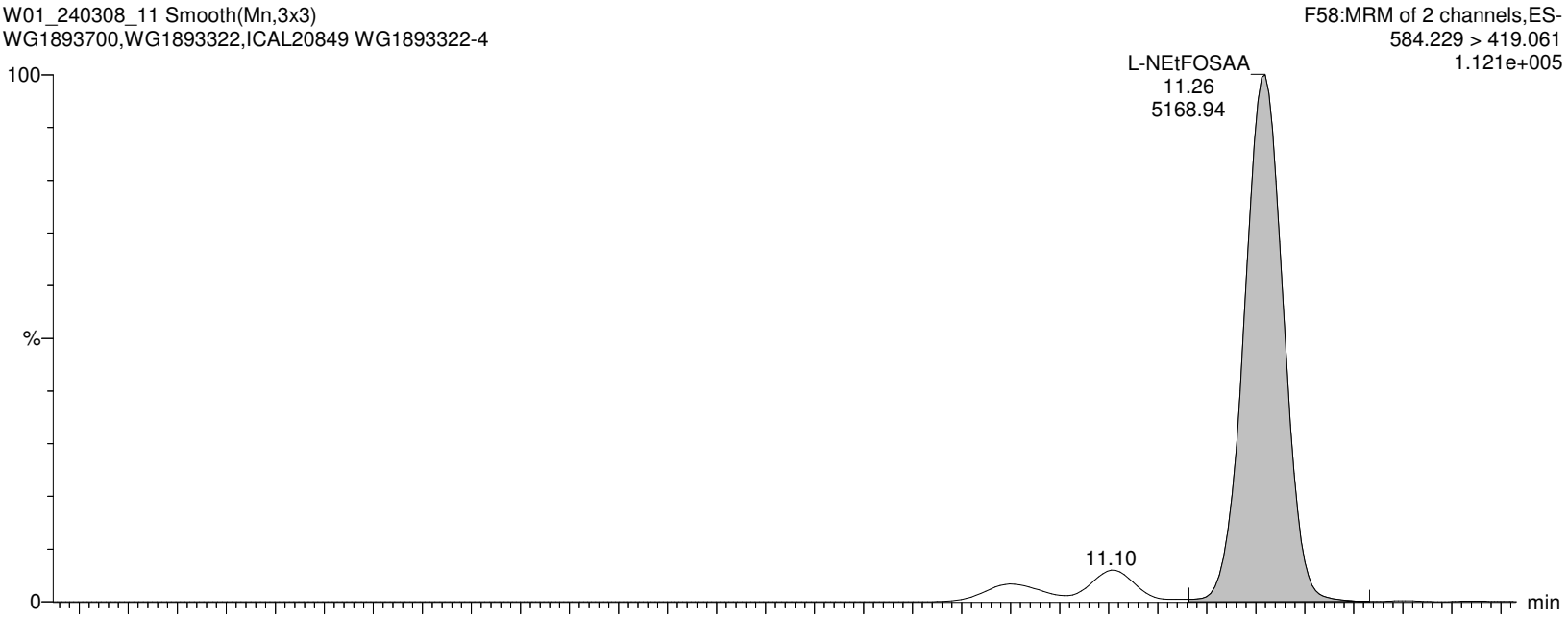
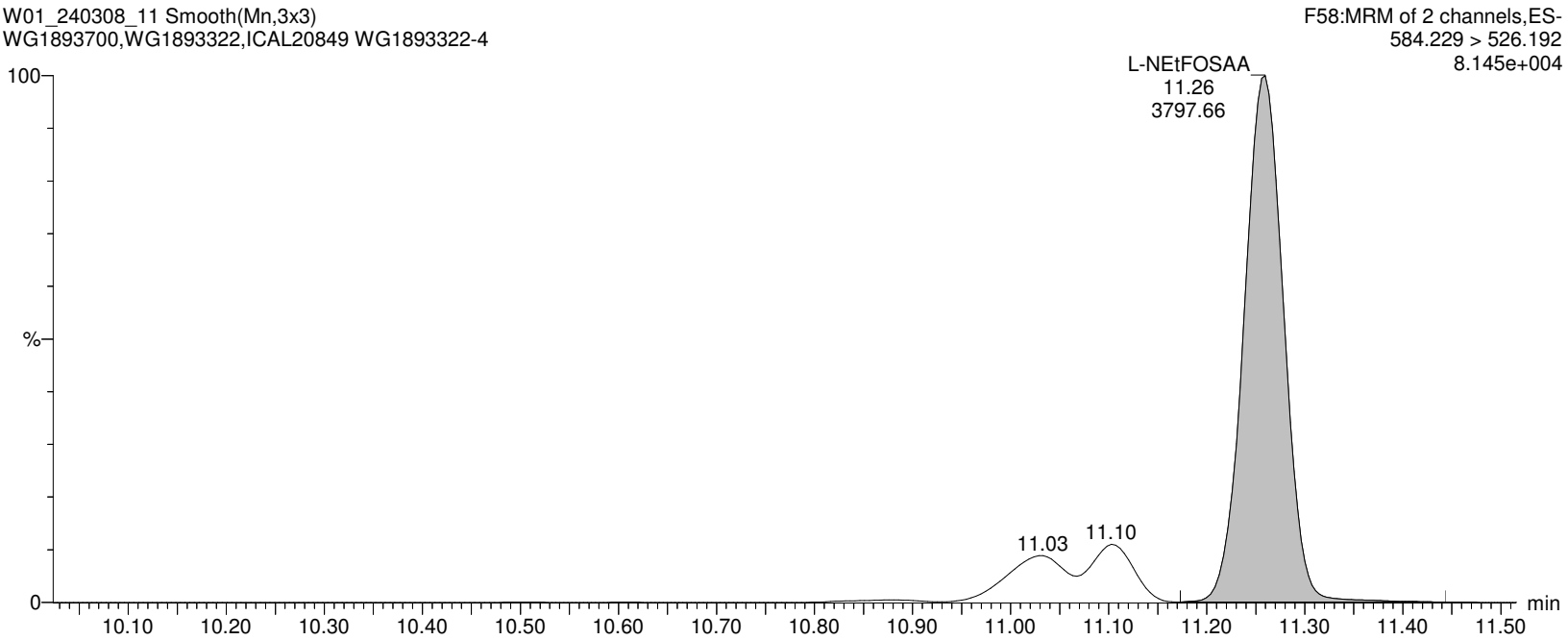
L-NEtFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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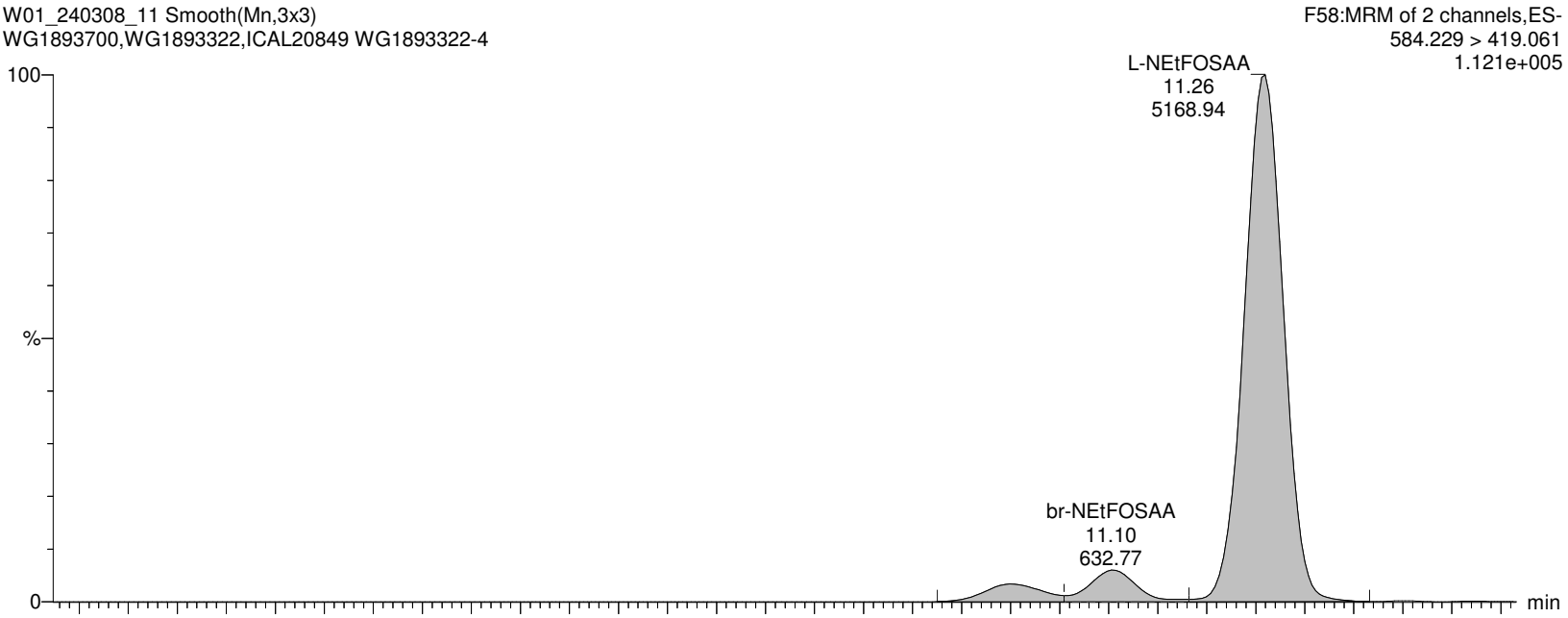

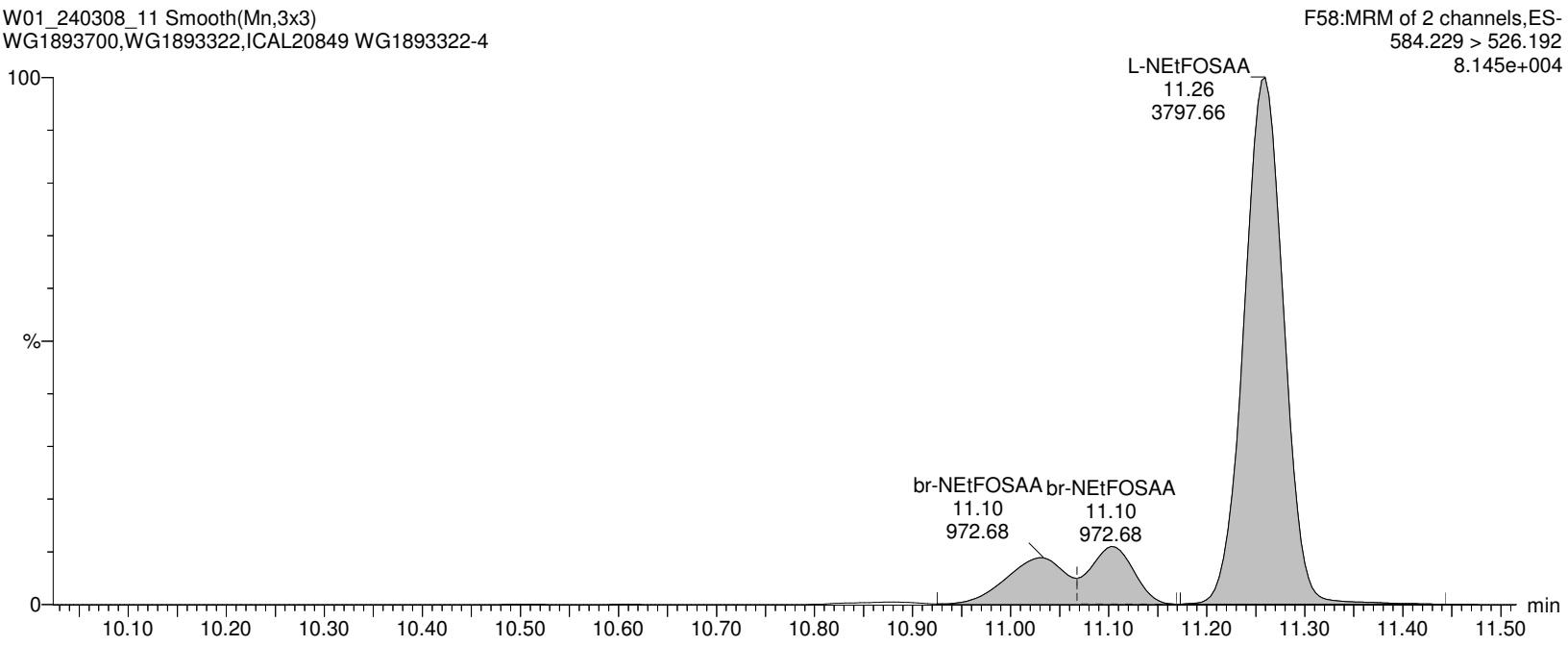

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
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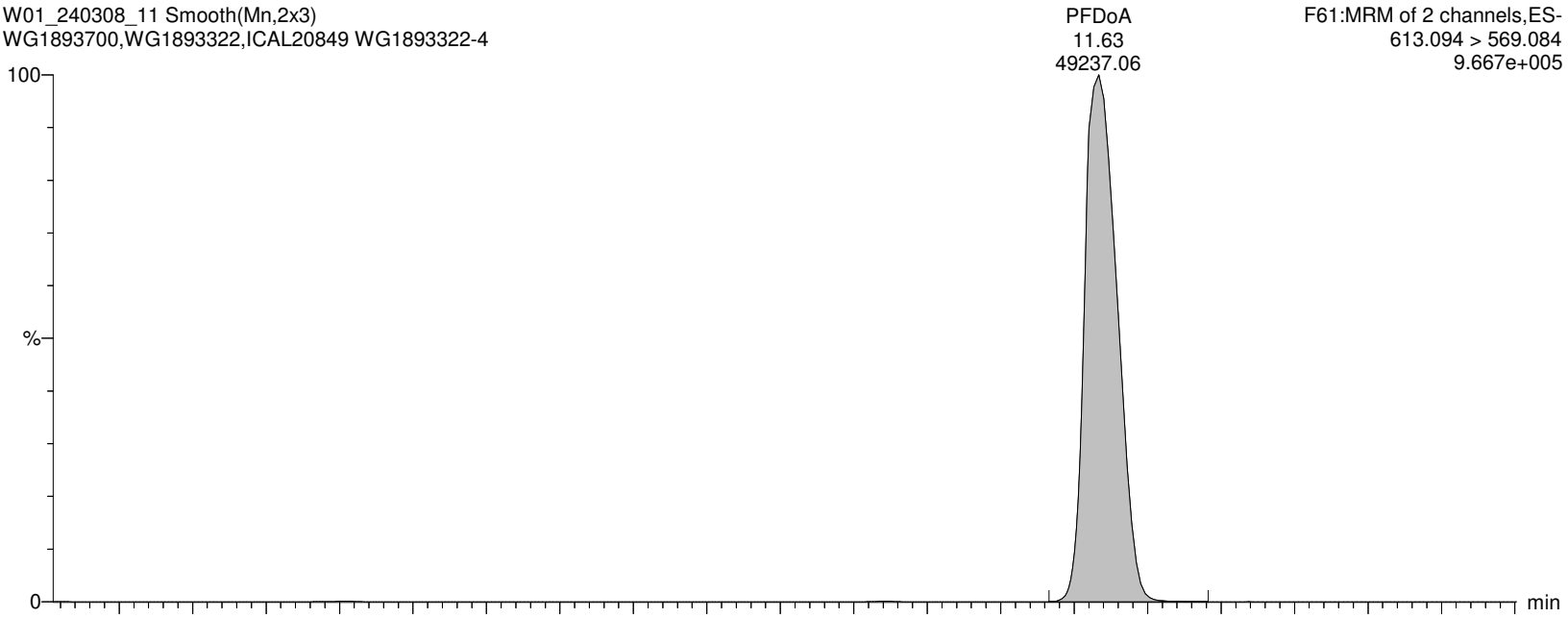
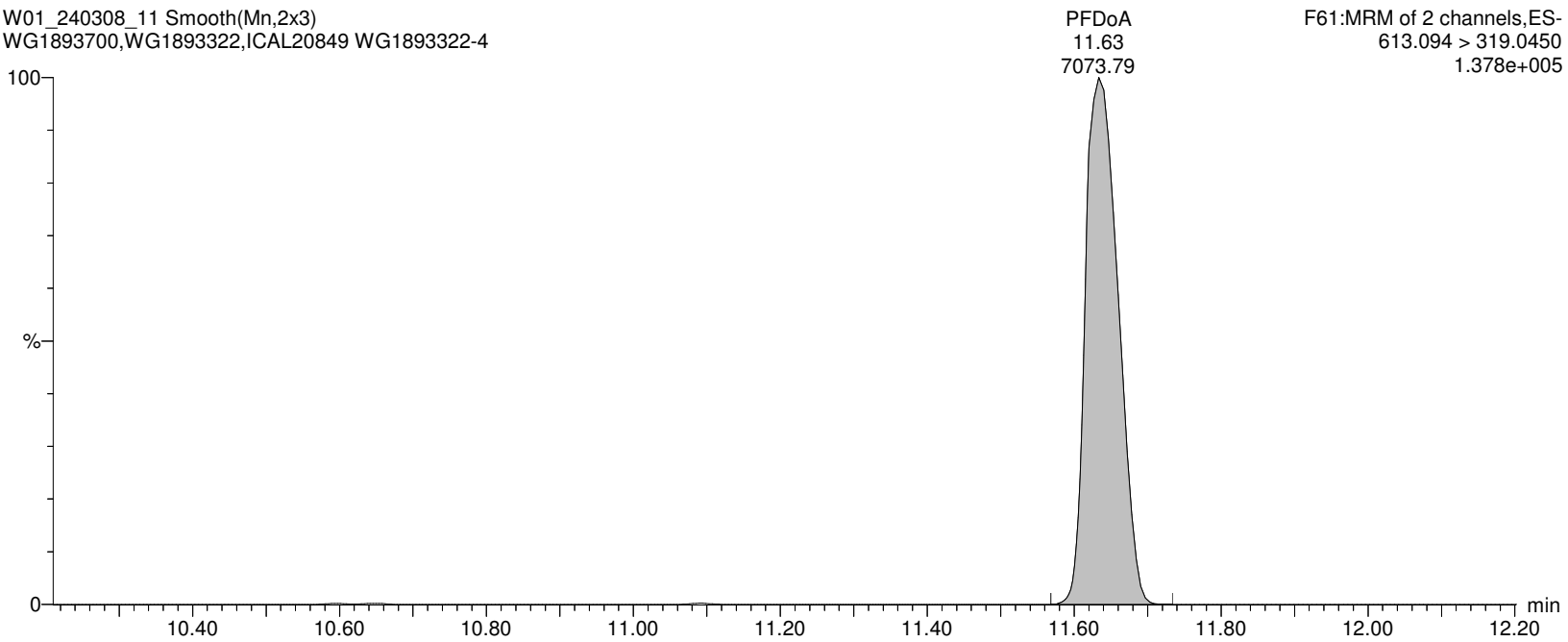
PFDoA





all concentration units in (ng/mL)

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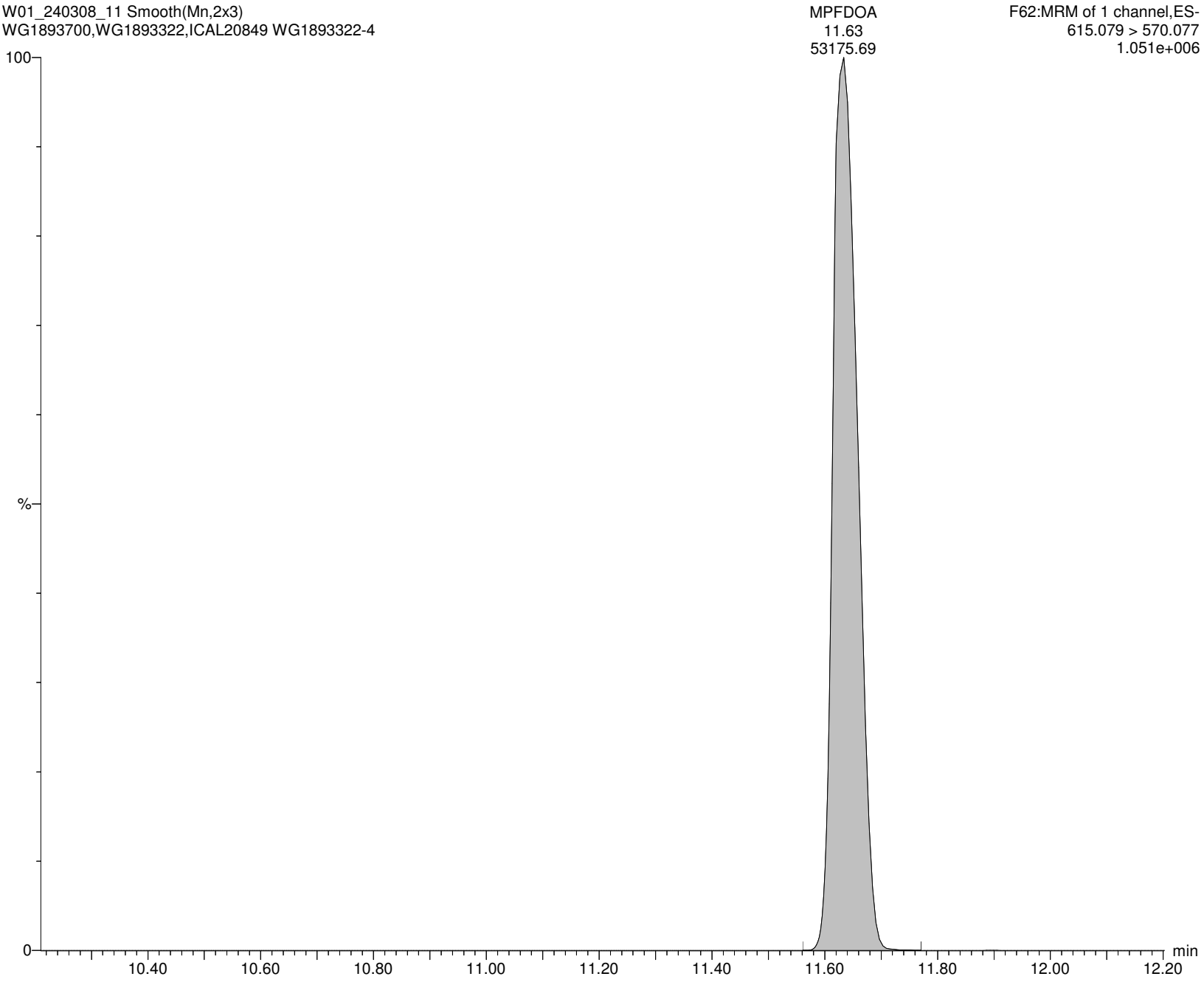

all concentration units in (ng/mL)

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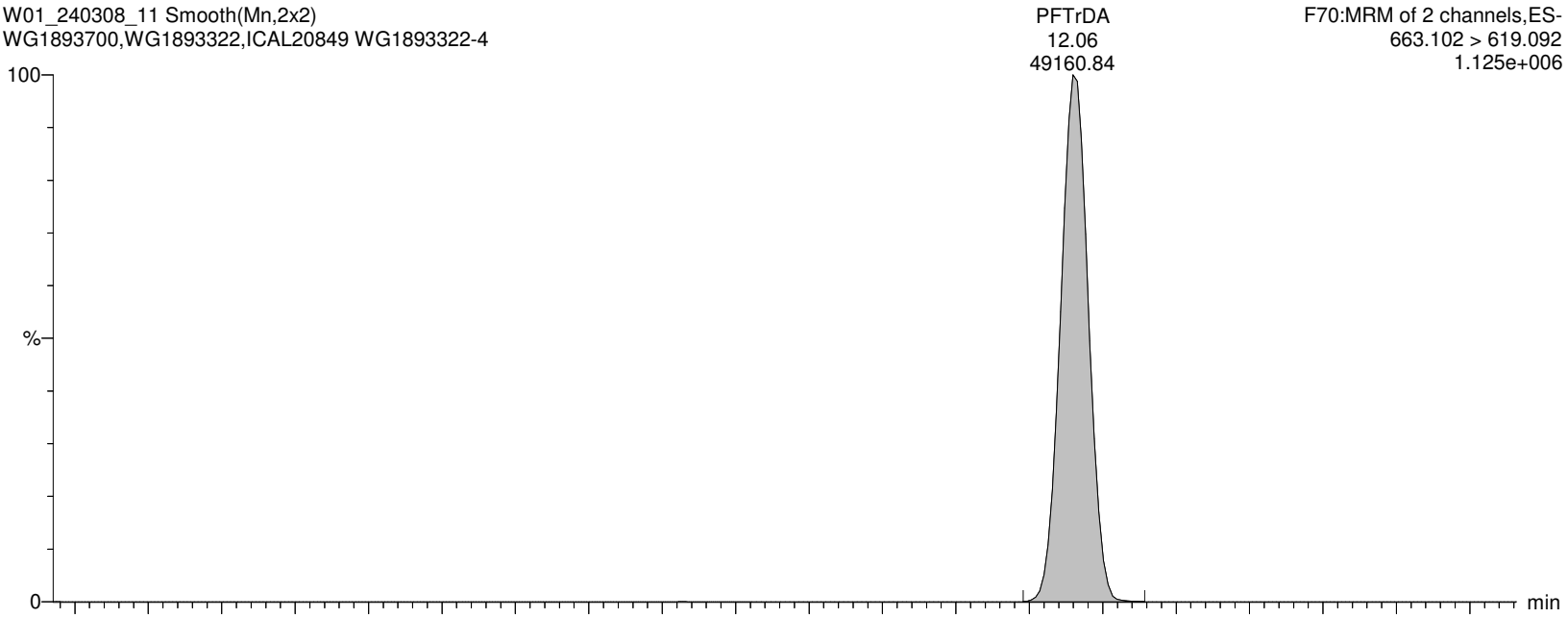

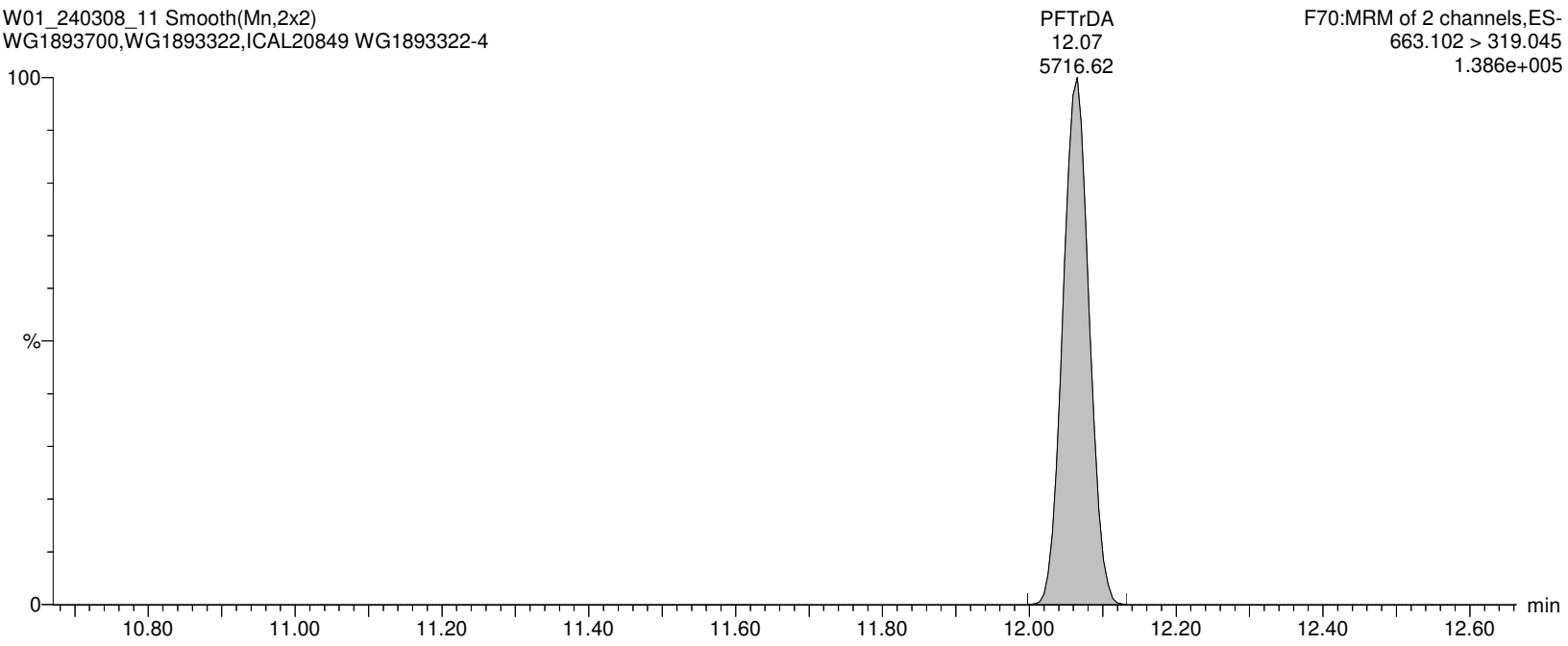

all concentration units in (ng/mL)

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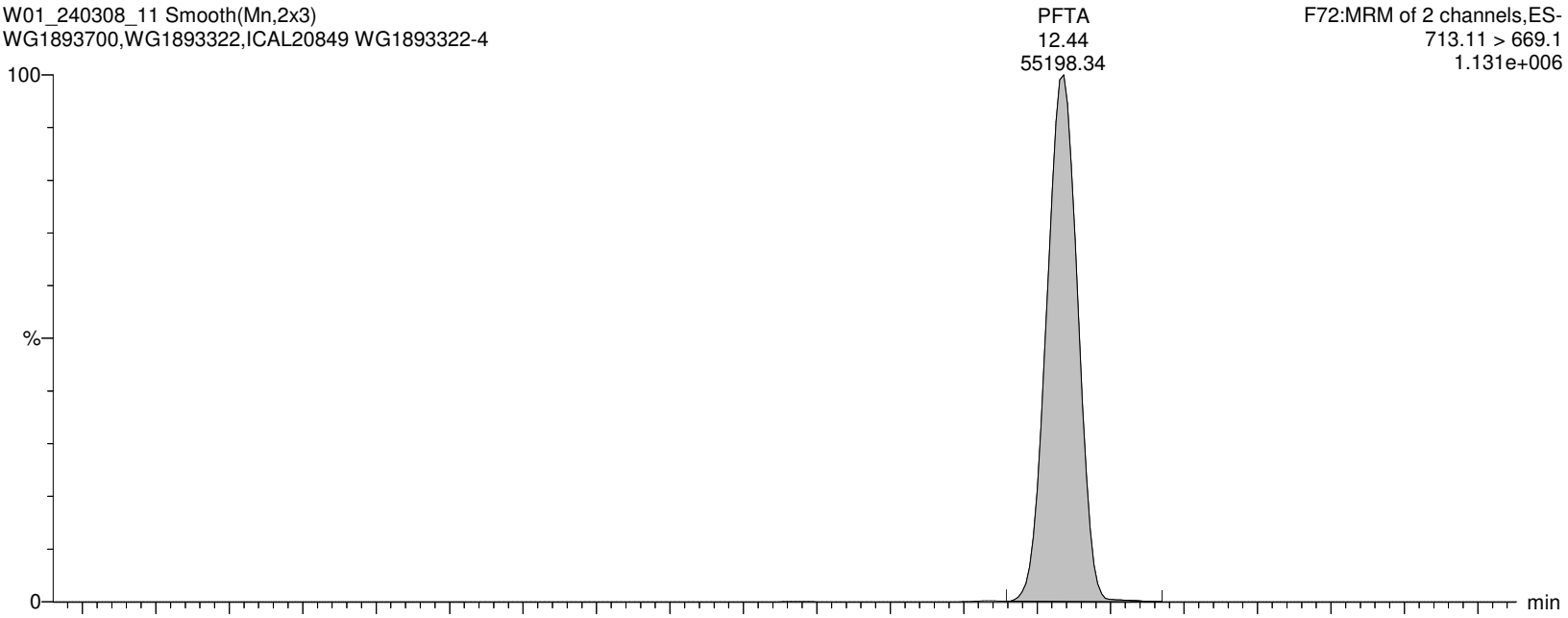
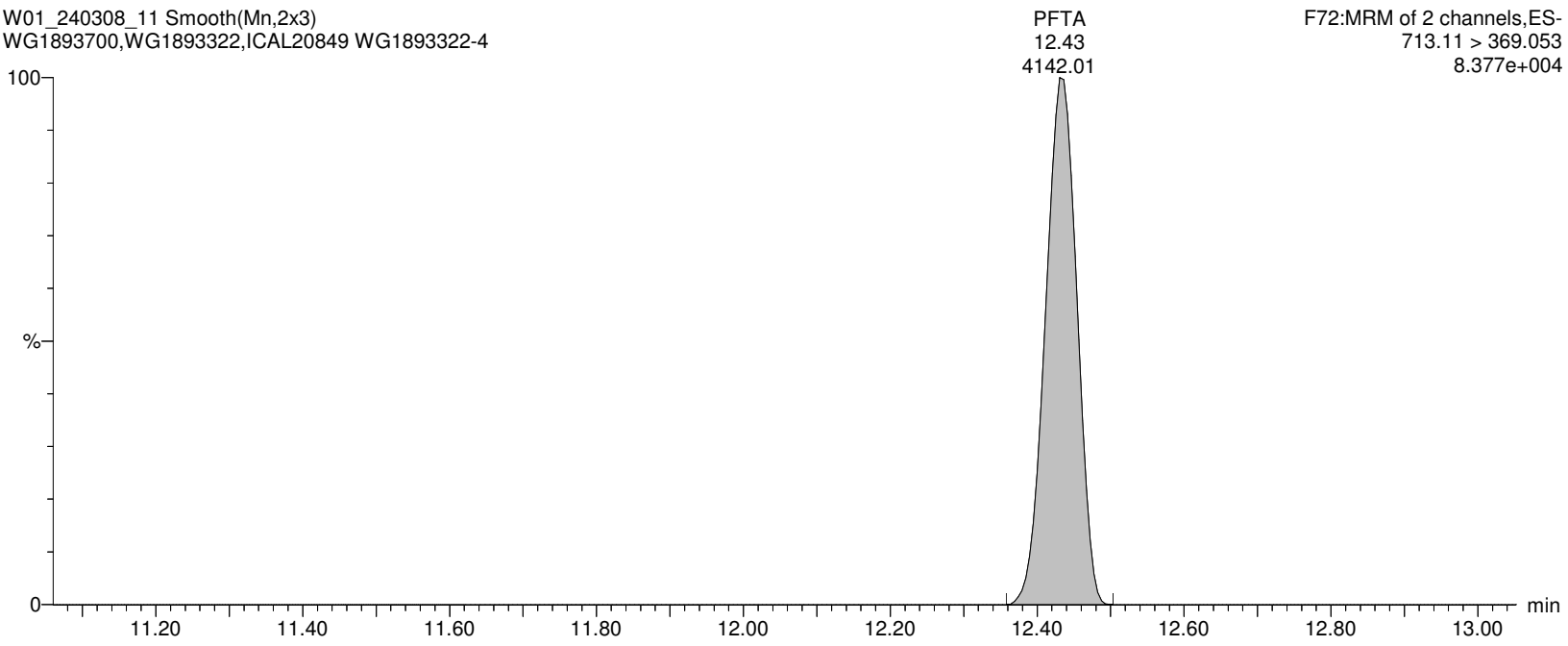
PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2024\240308_537ISO.PRO\Data\WG1893700-A.qld
Last Altered: Friday, March 08, 2024 15:07:09 Eastern Standard Time
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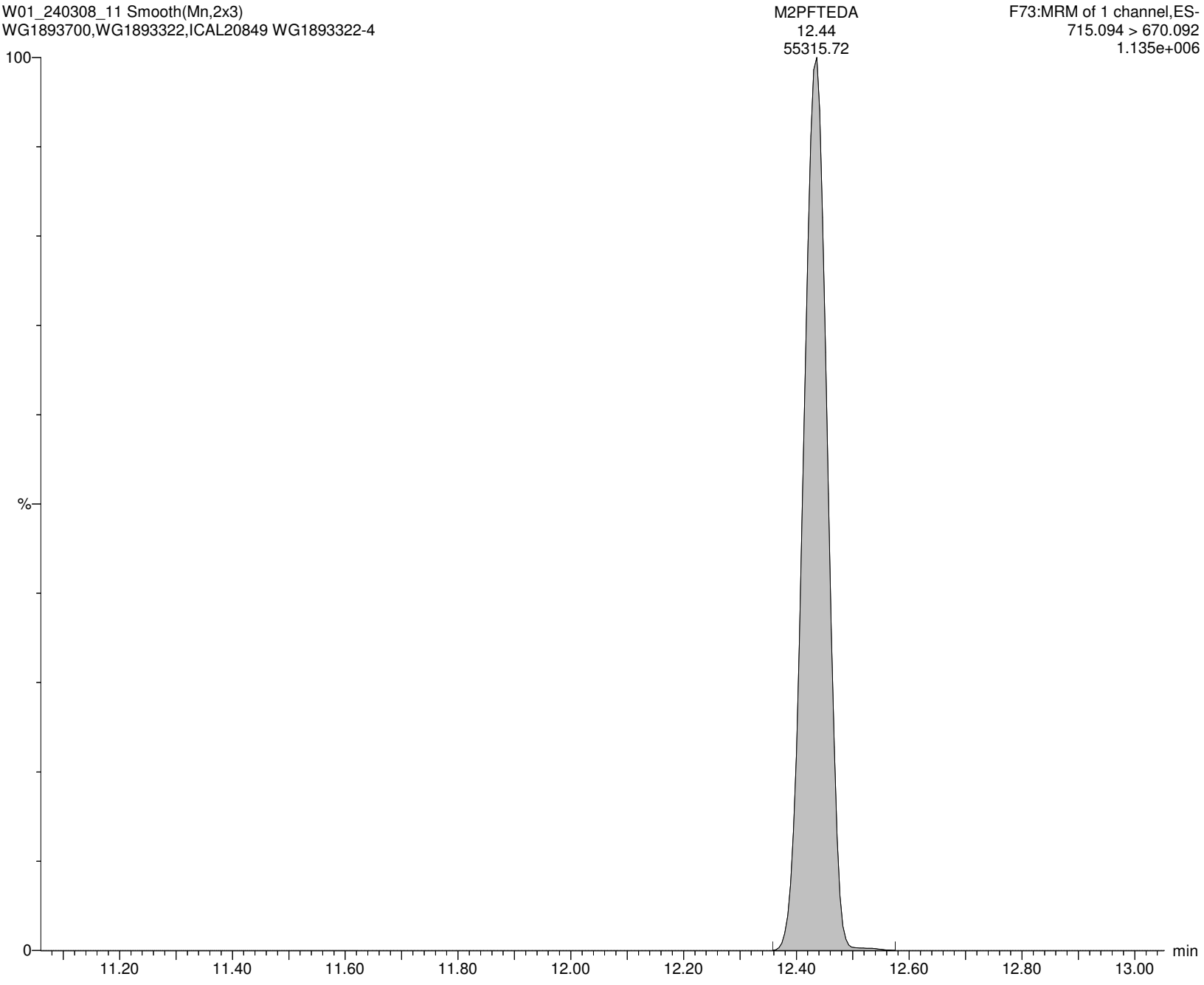
M2PFTEDA



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)

Mar 08 2024, 04:30 pm

Work Group: WG1893700 for Department: 32 GC/MS - Semivolatiles

Created: 08-MAR-24 Due: Operator: AC

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410447-14	DB-SW	C	A2-537-ISOTOPE	WATER	DACQ	U	0326	0319	S0	Plastic-A.25
L2410689-01	WS-MW-113S	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410689-02	WS-MW-113D	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410689-03	WS-MW-114S	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410689-04	WS-MW-114D	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410689-05	PZ-1	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410689-06	PZ-1 SW	S	A2-537-ISOTOPE	WATER	DACQ	U	0326	0320	S0	Plastic-A.25
L2410956-01	S-47	S	A2-537-ISOTOPE	WATER	DACQ	U	0327	0314	S0	Plastic-A.25
L2410956-02	D-94	S	A2-537-ISOTOPE	WATER	DACQ	U	0327	0314	S0	Plastic-A.25
L2410956-03	D-19	S	A2-537-ISOTOPE	WATER	DACQ	U	0327	0314	S0	Plastic-A.25
L2411150-03	122 DEPOT ST BE	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U	0314	0311	S0	Plastic-A.25
L2411331-01	RMW-5	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0329	0315	S0	Plastic-A.25
L2411331-02	RMW-9R	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0329	0315	S0	Plastic-A.25
L2411331-03	RMW-11R	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0329	0315	S0	Plastic-A.25
L2411331-04	DUP030124	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0329	0315	S0	Plastic-A.25
L2411331-05	FIELD BLANK 030124	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0329	0315	S0	Plastic-A.25
L2411342-03	1348 MEADOW POND ROAD - BE	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U	0314	0312	S0	Plastic-A.25
L2411482-03	245 MAIN ST - BE	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U	0314	0314	S0	Plastic-A.25
L2411597-03	12 SILAS WARREN DRIVE - BE	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U	0318	0318	S0	Plastic-A.25
L2411791-01	423 SOUTH SHORE DR	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U	0318	0314	S0	Plastic-A.25
L2411794-02	INFLUENT (RAW)	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0326	S0	Plastic-A.25
L2411794-03	EFFLUENT (FINAL)	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0326	S0	Plastic-A.25
L2411805-02	INFLUENT (RAW)	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0326	S0	Plastic-A.25
L2411805-03	EFFLUENT (FINAL)	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0326	S0	Plastic-A.25
L2411882-01	FBGW-030524	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0319	S0	Plastic-A.25
L2411882-02	B104 WET WELL	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0319	S0	Plastic-A.25
L2411998-01	MW-5	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-02	MW-4	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-03	MW-3	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-04	SVE-1	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-05	MW-1	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-06	MW-2	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2411998-07	MW-6	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0327	S0	Plastic-A.25
L2412156-01	LEACHATE TANK	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0320	S0	Plastic-A.25
L2412156-02	FIELD BLANK	S	A2-537-ISOTOPE	WATER	DACQ	U	0402	0320	S0	Plastic-A.25
WG1893185-1	Laboratory Method Bl	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893185-1	Laboratory Method Bl	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893185-2	Laboratory Control S	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893185-2	Laboratory Control S	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893185-3	Matrix Spike	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893185-3	Matrix Spike	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893185-4	Duplicate Sample	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893185-4	Duplicate Sample	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893322-1	Laboratory Method Bl	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1893322-2	Laboratory Control S	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1893322-3	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1893322-4	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1893498-1	Laboratory Method Bl	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893498-1	Laboratory Method Bl	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893498-2	Laboratory Control S	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893498-2	Laboratory Control S	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893498-3	Matrix Spike	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893498-3	Matrix Spike	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1893498-4	Duplicate Sample	S	A2-ME-537ISOTOPE-28+	WATER	DACQ	U				
WG1893498-4	Duplicate Sample	S	A2-537-ISOTOPE	WATER	DACQ	U				

Comments:

WG1893185-3	L2410689-01
WG1893185-4	L2410689-02
WG1893322-3	L2411331-02
WG1893322-4	L2411331-02

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 08 2024, 04:30 pm

Work Group: WG1893700 for Department: 32 GC/MS - Semivolatiles

Created: 08-MAR-24 Due: Operator: AC

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1893498-3	L2411791-01									
WG1893498-4	L2411998-01									

Run Date	**2/10/2024**
Instrument	**LCMS-01**
Verified by	**SG**

VIAL	FILE	STRINGER	SAMPLE NAME
1:B,1	W01_240210_21	WG1883805,,,IA537STD-10_50uL	IA537STD-.5
1:B,2	W01_240210_22	WG1883805,,IA537STD-10_100uL	IA537STD-1
1:B,3	W01_240210_23	WG1883805,,,IA537STD-10_200uL	IA537STD-2
1:B,4	W01_240210_24	WG1883805,,,LC_537ISO_ICALSTOCK_240110_10uL	IA537STD-5
1:B,5	W01_240210_25	WG1883805,,,LC_537ISO_ICALSTOCK_240110_20uL	IA537STD-10
1:B,6	W01_240210_26	WG1883805,,,LC_537ISO_ICALSTOCK_240110_50uL	IA537STD-25
1:B,7	W01_240210_27	WG1883805,,,LC_537ISO_ICALSTOCK_240110_100uL	IA537STD-50
1:B,8	W01_240210_28	WG1883805,,,LC_537ISO_ICALSTOCK_240110_200uL	IA537STD-100
1:C,1	W01_240210_29	WG1883805,,,LC_537ISO_ICALSTOCK_240110_250uL	IA537STD-250
1:C,2	W01_240210_32	WG1883805,,,LC_537ISO_ICV_240210	CA537STD-10
1:C,3	W01_240210_34	WG1883805,537_TECHSTD230404	TECHSTD

Run Date	3/8/2024
Instrument	LCMS01
Verified by	AC

ICAL info:	See tab 22 on PFAS guide

VIAL	FILE	STRINGER	SAMPLE NAME	SUBLIST	SITUATION
1:A,2	W01_240308_05	**WG1893700,WG1890000,ICAL20849,537ILOW**	**WG1893700-1,537ILOW**	**CCV 1-68**	**BR-NET OUT, M3HFPO-DA HIGH**
1:B,1	W01_240308_06	WG1893700,WG1893322,ICAL20849	WG1893322-1	NY-21	
1:B,2	W01_240308_07	WG1893700,WG1893322,ICAL20849	WG1893322-2	NY-21	
1:B,3	W01_240308_08	WG1893700,WG1893322,ICAL20849	L2411331-01	NY-21	
1:B,4	W01_240308_09	WG1893700,WG1893322,ICAL20849	L2411331-02	NY-21	
1:B,5	W01_240308_10	WG1893700,WG1893322,ICAL20849	WG1893322-3	NY-21	
1:B,6	W01_240308_11	WG1893700,WG1893322,ICAL20849	WG1893322-4	NY-21	
1:B,7	W01_240308_12	WG1893700,WG1893322,ICAL20849	L2411331-03	NY-21	
1:B,8	W01_240308_13	WG1893700,WG1893322,ICAL20849	L2411331-04	NY-21	
1:C,1	W01_240308_14	WG1893700,WG1893322,ICAL20849	L2411331-05	NY-21	
1:A,3	W01_240308_15	**WG1893700,WG1890000,ICAL20849,537IMED**	**WG1893700-2,537IMED**	**CCV 1-68**	
1:C,2	W01_240308_16	WG1893700,WG1893185,ICAL20849	WG1893185-1	ISO-36	
1:C,3	W01_240308_17	WG1893700,WG1893185,ICAL20849	WG1893185-2	ISO-36	
1:C,4	W01_240308_18	WG1893700,WG1893185,ICAL20849	L2410689-01	ISO-24	
1:C,5	W01_240308_19	WG1893700,WG1893185,ICAL20849	WG1893185-3	ISO-24	
1:C,6	W01_240308_20	WG1893700,WG1893185,ICAL20849	L2410689-02	ISO-24	
1:C,7	W01_240308_21	WG1893700,WG1893185,ICAL20849	WG1893185-4	ISO-24	
1:C,8	W01_240308_22	WG1893700,WG1893185,ICAL20849	L2410689-03	ISO-24	
1:D,1	W01_240308_23	WG1893700,WG1893185,ICAL20849	L2410689-04	ISO-24	
1:D,2	W01_240308_24	WG1893700,WG1893185,ICAL20849	L2410689-05	ISO-24	
1:D,3	W01_240308_25	WG1893700,WG1893185,ICAL20849	L2410689-06	ISO-24	
1:D,4	W01_240308_26	WG1893700,WG1893185,ICAL20849	L2410447-14RE	6:2FTS	
1:D,5	W01_240308_27	WG1893700,WG1893185,ICAL20849	L2410956-01	ISO-24	
1:D,6	W01_240308_28	WG1893700,WG1893185,ICAL20849	L2410956-02	ISO-24	
1:D,7	W01_240308_29	WG1893700,WG1893185,ICAL20849	L2410956-03	ISO-24	
1:A,3	W01_240308_30	**WG1893700,WG1890000,ICAL20849,537IMED**	**WG1893700-3,537IMED**	**CCV 1-68**	
1:D,8	W01_240308_31	WG1893700,WG1893185,ICAL20849	L2411150-03RE	ME ISO 28+	
1:E,1	W01_240308_32	WG1893700,WG1893185,ICAL20849	L2411342-03RE	ME ISO 28+	
1:E,2	W01_240308_33	WG1893700,WG1893185,ICAL20849	L2411482-03RE	ME ISO 28+	
1:E,3	W01_240308_34	WG1893700,WG1893185,ICAL20849	L2411597-03RE	ME ISO 28+	
1:E,4	W01_240308_35	WG1893700,WG1893185,ICAL20849	L2411794-02	MA6	
1:E,5	W01_240308_36	WG1893700,WG1893185,ICAL20849	L2411794-03	MA6	
1:E,6	W01_240308_37	WG1893700,WG1893185,ICAL20849	L2411805-02	MA6	
1:E,7	W01_240308_38	WG1893700,WG1893185,ICAL20849	L2411805-03	MA6	
1:E,8	W01_240308_39	WG1893700,WG1893185,ICAL20849	L2411882-01	14CMP	
1:F,1	W01_240308_40	WG1893700,WG1893185,ICAL20849	L2411882-02	14CMP	
1:A,3	W01_240308_41	**WG1893700,WG1890000,ICAL20849,537IMED**	**WG1893700-4,537IMED**	**CCV 1-68**	
1:F,2	W01_240308_42	WG1893700,WG1893498,ICAL20849	WG1893498-1	ISO-36	
1:F,3	W01_240308_43	WG1893700,WG1893498,ICAL20849	WG1893498-2	ISO-36	
1:F,4	W01_240308_44	WG1893700,WG1893498,ICAL20849	L2411791-01	ME ISO 28+	
1:F,5	W01_240308_45	WG1893700,WG1893498,ICAL20849	WG1893498-3	ME ISO 28+	
1:F,6	W01_240308_46	WG1893700,WG1893498,ICAL20849	L2411998-01	ISO-24	
1:F,7	W01_240308_47	WG1893700,WG1893498,ICAL20849	WG1893498-4	ISO-24	

Run Date	3/8/2024
Instrument	LCMS01
Verified by	AC

ICAL info:	See tab 22 on PFAS guide

VIAL	FILE	STRINGER	SAMPLE NAME	SUBLIST	SITUATION
1:F,8	W01_240308_48	WG1893700,WG1893498,ICAL20849	L2411998-02	ISO-24	
2:A,1	W01_240308_49	WG1893700,WG1893498,ICAL20849	L2411998-03	ISO-24	
2:A,2	W01_240308_50	WG1893700,WG1893498,ICAL20849	L2411998-04	ISO-24	
2:A,3	W01_240308_51	WG1893700,WG1893498,ICAL20849	L2411998-05	ISO-24	
2:A,4	W01_240308_52	WG1893700,WG1893498,ICAL20849	L2411998-06	ISO-24	
2:A,5	W01_240308_53	WG1893700,WG1893498,ICAL20849	L2411998-07	ISO-24	
2:A,6	W01_240308_54	WG1893700,WG1893498,ICAL20849	L2412156-01	HpA/OA/NA/OS/DA	
2:A,7	W01_240308_55	WG1893700,WG1893498,ICAL20849	L2412156-02	HpA/OA/NA/OS/DA	
1:A,3	W01_240308_56	**WG1893700,WG1890000,ICAL20849,537IMED**	**WG1893700-5,537IMED**	**CCV 1-68**	

ORGANIC ELN REPORT

Workgroup: WG1893322

Prep Method: ALPHA 23528
Solvent Type: Methanol
Surrogate Type: 537
Spike Type: 537
Spike Verify by: LKV
Lims Spikelot: 537I

Lot #: EI084-US
Lot #: LC_537_ISO_SURR_240225
Lot #: LC_537_ISO_LCS_240303

Additional Reagents/Stds

2% NH4OH	EC022824A
25 mM NaOAc	EC022024K
Acetic Acid	2023060533
pH Strip	10BDH3431

Conc.Method: N-EVAP
Solvent Type: 80:20 Methanol/Wat
Lot #: EC022824M

Additional Reagents/Stds

IS	537_ISO_ISTD_240216

Cleanup 1

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

Additional Reagents/Stds

Extraction **Concentration**

Sample/ Type	Extract Date	Analyst	Initial Sample Weight	Final Weight g	Sample Vol g	Ph	Balance Id	Surr Amt ml	Spike Amt ml	Pipette Id	Lot: Spe Cartridge	Flow Rate ml/min	Lot: Clnup Cartrid	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit	Pipette Id
L2411331-01 WATER	03/07/24 10:05	Hannah Mitchell	302.70	25.84	276.86	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	11-3,705																		
L2411331-02 WATER	03/07/24 10:05	Hannah Mitchell	305.08	25.92	279.16	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	11-4,610																		
L2411331-03 WATER	03/07/24 10:05	Hannah Mitchell	308.88	26.02	282.86	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	12-2,408																		
L2411331-04 WATER	03/07/24 10:05	Hannah Mitchell	306.28	26.72	279.56	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	12-3,702																		
L2411331-05 WATER	03/07/24 10:05	Hannah Mitchell	308.42	26.53	281.89	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	12-4,505																		
WG1893322-1 BLANK	03/07/24 10:05	Hannah Mitchell	275	25	250	3	BAL-27	.02		286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
	MEOH FRACTIONS TAKEN FOR ENTIRE BATCH: LC_537_ISO_MEOH_ISTD_240225A (377)- 03/07/24 HJM																		
	11-1,714																		

Reported: 08-MAR-24 04:30 PM

ORGANIC ELN REPORT

Workgroup: WG1893322

Sample/ Type	Extraction													Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Ph	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartridge	Flow Rate **ml/min**	Lot: Clnup Cartrid	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	Pipette Id
WG1893322-2 LCS	03/07/24 10:05 **11-2,419**	Hannah Mitchell	275	25	250	3	BAL-27	.02	0.02	286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
WG1893322-3 MS	03/07/24 10:05 **11-5,410**	Hannah Mitchell	296.71	26.29	270.42	3	BAL-27	.02	0.02	286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29
WG1893322-4 MSD	03/07/24 10:05 **12-1,911**	Hannah Mitchell	294.61	25.99	268.62	3	BAL-27	.02	0.02	286	S24-001262; S308-017	4	F0351 1; 1260	4	03/07/24 12:45	Hannah Mitchell	1	NEVAP 60 -7	351; WHG29

Reported: 08-MAR-24 04:30 PM

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2411464

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Logbook 513

Project Name: PARKCHESTER CROSSING
Project Number: 2530.0001Y000

Lab Number: L2411464
Report Date: 03/07/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2411464-01	RMW-5	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 08:30	03/01/24
L2411464-02	RMW-9R	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 10:30	03/01/24
L2411464-03	RMW-11R	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 09:30	03/01/24
L2411464-04	DUP030124	WATER	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 09:35	03/01/24
L2411464-05	FIELD BLANK 030124	FIELD BLANK	1590 WHITE PLAINS ROAD, BRONX, NY	03/01/24 10:00	03/01/24

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.

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: Michelle M. Morris Report Date: 03/07/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2411464

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2530.0001Y000
Project Name : PARKCHESTER CROSSING

Received : 01-MAR-2024
Reviewer : Kevin Law

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

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

Condition Information

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

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 07 2024, 03:09 pm

Login Number: L2411464
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2530.0001Y000
Received: 01MAR24 Due Date: 08MAR24

Sample #	Client ID	Mat	PR	Collected
L2411464-01	RMW-5	S0	1	01MAR24 08:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound ASP-B Package Due Date: 03/08/24

ASP-B,NYTCL-8260

Sample #	Client ID	Mat	PR	Collected
L2411464-02	RMW-9R	S0	1	01MAR24 10:30

L2411464-02 MS L2411464-02 MSD Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 03/08/24

MS/MSD,NYTCL-8260

Sample #	Client ID	Mat	PR	Collected
L2411464-03	RMW-11R	S0	1	01MAR24 09:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 03/08/24

NYTCL-8260

Sample #	Client ID	Mat	PR	Collected
L2411464-04	DUP030124	S0	1	01MAR24 09:35

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 03/08/24

NYTCL-8260

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 07 2024, 03:09 pm

Login Number: L2411464

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2530.0001Y000

Received: 01MAR24 Due Date: 08MAR24

Sample #	Client ID	Mat	PR	Collected
L2411464-05	FIELD BLANK 030124		1	S0 01MAR24 10:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 03/08/24

NYTCL-8260

Logged By: Kevin Law

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

NEW YORK CHAIN OF CUSTODY

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 of 1

Date Rec'd in Lab: 3/1/24

ALPHA Job #: L2411464

Client Information

Client: Roux Env. Eng. & Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: rhenke@rouxinc.com

Project Information

Project Name: Parkchester Crossing
Project Location: 1590 White Plains Road, Bronx, NY
Project #: 2530.0001Y000
(Use Project name as Project #) ☐
Project Manager: Roux: Rachel Henke/ Alpha: Karyn Raymond
ALPHAQuote #:

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOCs NY-TCL-8260

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	TCL VOCs	Sample Specific Comments	Total Bottle
11464-01	RMW-5	030124	0830	GW	MS	X		3
-02	RMW-9R	030124	1030	GW	MS	X		3
-03	RMW-11R	030124	0930	GW	MS	X		3
-04	Dup030124	030124	0935	GW	MS	X		3
-07	RMW-9RMS	030124	1035	GW	MS	X		3
-02	RMW-9RMSD	030124	1040	GW	MS	X		3
-05	Field Blank030124	030124	1000	GW	MS	X		3

Container Type: V
Preservative: B

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
M Sarni	03-01-24 1400		3/1/24 1400
	3/1/24 1705	Paul Maggella	3/1/24 1705
Paul Maggella	3/1/24		3/1/24 2300
	3/1/24 2300		3/1/24 23:00

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

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: PARKCHESTER CROSSING

Lab Number: L2411464
Project Number: 2530.0001Y000
Matrix: Water/Field Blank

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
RMW-5 (L2411464-01)	108	102	104	105	0
RMW-9R (L2411464-02)	107	103	105	103	0
RMW-11R (L2411464-03)	106	103	106	103	0
DUP030124 (L2411464-04)	104	103	108	104	0
FIELD BLANK 030124 (L2411464-05)	103	104	107	103	0
WG1893240-3LCS	109	107	108	102	0
WG1893240-4LCSD	106	105	108	102	0
WG1893240-5BLANK	109	104	110	104	0
RMW-9RMS	98	100	101	99	0
RMW-9RMSD	94	100	101	99	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1893240-3 **Analysis Date** : 03/05/24 17:29	**File ID**	: V08240305N01
LCSD Sample ID	: WG1893240-4 **Analysis Date** : 03/05/24 17:51	**File ID**	: V08240305N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	8.9	89	10	8.9	89	0	70-130	20
1,1-Dichloroethane	10	9.7	97	10	9.8	98	1	70-130	20
Chloroform	10	9.2	92	10	9.0	90	2	70-130	20
Carbon tetrachloride	10	9.0	90	10	8.9	89	1	63-132	20
1,2-Dichloropropane	10	9.7	97	10	9.8	98	1	70-130	20
Dibromochloromethane	10	9.1	91	10	8.7	87	4	63-130	20
1,1,2-Trichloroethane	10	10	100	10	9.7	97	3	70-130	20
Tetrachloroethene	10	8.8	88	10	8.3	83	6	70-130	20
Chlorobenzene	10	9.3	93	10	8.9	89	4	75-130	20
Trichlorofluoromethane	10	7.6	76	10	7.4	74	3	62-150	20
1,2-Dichloroethane	10	9.4	94	10	9.3	93	1	70-130	20
1,1,1-Trichloroethane	10	8.8	88	10	8.8	88	0	67-130	20
Bromodichloromethane	10	8.9	89	10	8.8	88	1	67-130	20
trans-1,3-Dichloropropene	10	9.2	92	10	9.0	90	2	70-130	20
cis-1,3-Dichloropropene	10	8.6	86	10	8.6	86	0	70-130	20
1,1-Dichloropropene	10	8.9	89	10	8.9	89	0	70-130	20
Bromoform	10	9.2	92	10	8.8	88	4	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110	10	11	110	0	67-130	20
Benzene	10	9.3	93	10	9.1	91	2	70-130	20
Toluene	10	9.5	95	10	9.1	91	4	70-130	20
Ethylbenzene	10	9.2	92	10	8.9	89	3	70-130	20
Chloromethane	10	12	120	10	12	120	0	64-130	20
Bromomethane	10	5.5	55	10	5.6	56	2	39-139	20
Vinyl chloride	10	9.2	92	10	9.1	91	1	55-140	20
Chloroethane	10	8.2	82	10	7.9	79	4	55-138	20
1,1-Dichloroethene	10	9.1	91	10	8.9	89	2	61-145	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1893240-3 **Analysis Date** : 03/05/24 17:29	**File ID**	: V08240305N01
LCSD Sample ID	: WG1893240-4 **Analysis Date** : 03/05/24 17:51	**File ID**	: V08240305N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	10	9.1	91	10	8.9	89	2	70-130	20
Trichloroethene	10	9.4	94	10	9.5	95	1	70-130	20
1,2-Dichlorobenzene	10	10	100	10	9.5	95	5	70-130	20
1,3-Dichlorobenzene	10	10	100	10	9.6	96	4	70-130	20
1,4-Dichlorobenzene	10	9.9	99	10	9.5	95	4	70-130	20
Methyl tert butyl ether	10	8.8	88	10	8.8	88	0	63-130	20
p/m-Xylene	20	18	90	20	18	90	0	70-130	20
o-Xylene	20	18	90	20	17	85	6	70-130	20
cis-1,2-Dichloroethene	10	8.9	89	10	8.8	88	1	70-130	20
Dibromomethane	10	8.7	87	10	8.7	87	0	70-130	20
1,2,3-Trichloropropane	10	11	110	10	10	100	10	64-130	20
Acrylonitrile	10	11	110	10	12	120	9	70-130	20
Styrene	20	18	90	20	17	85	6	70-130	20
Dichlorodifluoromethane	10	9.6	96	10	9.5	95	1	36-147	20
Acetone	10	11	110	10	12	120	9	58-148	20
Carbon disulfide	10	9.1	91	10	9.0	90	1	51-130	20
2-Butanone	10	11	110	10	12	120	9	63-138	20
Vinyl acetate	10	9.8	98	10	9.4	94	4	70-130	20
4-Methyl-2-pentanone	10	8.8	88	10	8.8	88	0	59-130	20
2-Hexanone	10	8.7	87	10	9.1	91	4	57-130	20
Bromochloromethane	10	8.7	87	10	8.8	88	1	70-130	20
2,2-Dichloropropane	10	9.2	92	10	9.2	92	0	63-133	20
1,2-Dibromoethane	10	9.1	91	10	8.8	88	3	70-130	20
1,3-Dichloropropane	10	9.8	98	10	9.5	95	3	70-130	20
1,1,1,2-Tetrachloroethane	10	9.6	96	10	8.9	89	8	64-130	20
Bromobenzene	10	9.7	97	10	9.2	92	5	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1893240-3 **Analysis Date** : 03/05/24 17:29	**File ID**	: V08240305N01
LCSD Sample ID	: WG1893240-4 **Analysis Date** : 03/05/24 17:51	**File ID**	: V08240305N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
n-Butylbenzene	10	11	110	10	10	100	10	53-136	20
sec-Butylbenzene	10	10	100	10	9.8	98	2	70-130	20
tert-Butylbenzene	10	10	100	10	9.7	97	3	70-130	20
o-Chlorotoluene	10	11	110	10	10	100	10	70-130	20
p-Chlorotoluene	10	10	100	10	10	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	9.4	94	10	8.9	89	5	41-144	20
Hexachlorobutadiene	10	9.0	90	10	8.6	86	5	63-130	20
Isopropylbenzene	10	10	100	10	9.6	96	4	70-130	20
p-Isopropyltoluene	10	10	100	10	9.6	96	4	70-130	20
Naphthalene	10	8.9	89	10	8.8	88	1	70-130	20
n-Propylbenzene	10	10	100	10	10	100	0	69-130	20
1,2,3-Trichlorobenzene	10	8.7	87	10	8.4	84	4	70-130	20
1,2,4-Trichlorobenzene	10	8.7	87	10	8.4	84	4	70-130	20
1,3,5-Trimethylbenzene	10	10	100	10	9.9	99	1	64-130	20
1,2,4-Trimethylbenzene	10	10	100	10	9.8	98	2	70-130	20
1,4-Dioxane	500	750	150	500	740	148	1	56-162	20
p-Diethylbenzene	10	9.8	98	10	9.4	94	4	70-130	20
p-Ethyltoluene	10	10	100	10	9.8	98	2	70-130	20
1,2,4,5-Tetramethylbenzene	10	9.5	95	10	9.0	90	5	70-130	20
Ethyl ether	10	7.6	76	10	7.5	75	1	59-134	20
trans-1,4-Dichloro-2-butene	10	11	110	10	11	110	0	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2411464-02	**Analysis Date**	: 03/05/24 20:27
Matrix Spike	: WG1893240-6	**MS Analysis Date**	: 03/06/24 03:07
Matrix Spike Dup	: WG1893240-7	**MSD Analysis Date**	: 03/06/24 03:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	ND	10	11	110	10	10	100	10	70-130	20
Chloroform	ND	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	ND	10	10	100	10	10	100	0	63-132	20
1,2-Dichloropropane	ND	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	ND	10	9.5	95	10	9.6	96	1	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	0.42J	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	ND	10	9.9	99	10	10	100	1	75-130	20
Trichlorofluoromethane	ND	10	8.8	88	10	8.6	86	2	62-150	20
1,2-Dichloroethane	ND	10	9.6	96	10	9.5	95	1	70-130	20
1,1,1-Trichloroethane	ND	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	ND	10	9.7	97	10	9.6	96	1	67-130	20
trans-1,3-Dichloropropene	ND	10	9.2	92	10	9.2	92	0	70-130	20
cis-1,3-Dichloropropene	ND	10	9.3	93	10	9.2	92	1	70-130	20
1,1-Dichloropropene	ND	10	11	110	10	11	110	0	70-130	20
Bromoform	ND	10	9.2	92	10	9.4	94	2	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	10	100	10	10	100	0	67-130	20
Benzene	2.2	10	13	108	10	13	108	0	70-130	20
Toluene	2.1J	10	12	120	10	13	130	8	70-130	20
Ethylbenzene	1.6J	10	12	120	10	13	130	8	70-130	20
Chloromethane	ND	10	11	110	10	12	120	9	64-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2411464-02	**Analysis Date**	: 03/05/24 20:27
Matrix Spike	: WG1893240-6	**MS Analysis Date**	: 03/06/24 03:07
Matrix Spike Dup	: WG1893240-7	**MSD Analysis Date**	: 03/06/24 03:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bromomethane	ND	10	7.2	72	10	7.9	79	9	39-139	20
Vinyl chloride	ND	10	10	100	10	9.9	99	1	55-140	20
Chloroethane	ND	10	8.8	88	10	8.6	86	2	55-138	20
1,1-Dichloroethene	ND	10	11	110	10	11	110	0	61-145	20
trans-1,2-Dichloroethene	ND	10	11	110	10	11	110	0	70-130	20
Trichloroethene	ND	10	11	110	10	11	110	0	70-130	20
1,2-Dichlorobenzene	ND	10	9.7	97	10	9.9	99	2	70-130	20
1,3-Dichlorobenzene	ND	10	9.7	97	10	10	100	3	70-130	20
1,4-Dichlorobenzene	ND	10	9.7	97	10	10	100	3	70-130	20
Methyl tert butyl ether	ND	10	10	100	10	10	100	0	63-130	20
p/m-Xylene	4.7	20	25	102	20	27	112	8	70-130	20
o-Xylene	3.9	20	24	101	20	25	106	4	70-130	20
cis-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Dibromomethane	ND	10	9.7	97	10	9.6	96	1	70-130	20
1,2,3-Trichloropropane	ND	10	9.8	98	10	9.8	98	0	64-130	20
Acrylonitrile	ND	10	13	130	10	13	130	0	70-130	20
Styrene	ND	20	18	90	20	18	90	0	70-130	20
Dichlorodifluoromethane	ND	10	11	110	10	10	100	10	36-147	20
Acetone	6.2	10	16	98	10	16	98	0	58-148	20
Carbon disulfide	ND	10	11	110	10	11	110	0	51-130	20
2-Butanone	ND	10	11	110	10	11	110	0	63-138	20
Vinyl acetate	ND	10	9.1	91	10	9.0	90	1	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2411464-02	**Analysis Date**	: 03/05/24 20:27
Matrix Spike	: WG1893240-6	**MS Analysis Date**	: 03/06/24 03:07
Matrix Spike Dup	: WG1893240-7	**MSD Analysis Date**	: 03/06/24 03:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
4-Methyl-2-pentanone	ND	10	8.9	89	10	8.8	88	1	59-130	20
2-Hexanone	ND	10	8.0	80	10	8.1	81	1	57-130	20
Bromochloromethane	ND	10	10	100	10	10	100	0	70-130	20
2,2-Dichloropropane	ND	10	9.2	92	10	8.9	89	3	63-133	20
1,2-Dibromoethane	ND	10	9.9	99	10	9.9	99	0	70-130	20
1,3-Dichloropropane	ND	10	10	100	10	10	100	0	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	9.9	99	10	9.9	99	0	64-130	20
Bromobenzene	ND	10	9.8	98	10	10	100	2	70-130	20
n-Butylbenzene	ND	10	9.9	99	10	10	100	1	53-136	20
sec-Butylbenzene	ND	10	10	100	10	10	100	0	70-130	20
tert-Butylbenzene	ND	10	10	100	10	10	100	0	70-130	20
o-Chlorotoluene	ND	10	9.6	96	10	9.9	99	3	70-130	20
p-Chlorotoluene	ND	10	9.9	99	10	10	100	1	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	9.2	92	10	9.6	96	4	41-144	20
Hexachlorobutadiene	ND	10	9.4	94	10	9.6	96	2	63-130	20
Isopropylbenzene	ND	10	10	100	10	10	100	0	70-130	20
p-Isopropyltoluene	ND	10	9.8	98	10	10	100	2	70-130	20
Naphthalene	ND	10	10	100	10	10	100	0	70-130	20
n-Propylbenzene	ND	10	10	100	10	10	100	0	69-130	20
1,2,3-Trichlorobenzene	ND	10	8.9	89	10	9.3	93	4	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.9	89	10	9.3	93	4	70-130	20
1,3,5-Trimethylbenzene	1.1J	10	11	110	10	12	120	9	64-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Client Sample ID	: RMW-9R	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2411464-02	**Analysis Date**	: 03/05/24 20:27
Matrix Spike	: WG1893240-6	**MS Analysis Date**	: 03/06/24 03:07
Matrix Spike Dup	: WG1893240-7	**MSD Analysis Date**	: 03/06/24 03:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,2,4-Trimethylbenzene	1.3J	10	11	110	10	12	120	9	70-130	20
1,4-Dioxane	ND	500	760	152	500	750	150	1	56-162	20
p-Diethylbenzene	ND	10	9.8	98	10	10	100	2	70-130	20
p-Ethyltoluene	0.92J	10	11	110	10	12	120	9	70-130	20
1,2,4,5-Tetramethylbenzene	ND	10	9.3	93	10	9.6	96	3	70-130	20
Ethyl ether	ND	10	8.6	86	10	8.7	87	1	59-134	20
trans-1,4-Dichloro-2-butene	ND	10	8.5	85	10	8.7	87	2	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab Sample ID	: WG1893240-5	**Lab File ID**	: V08240305N05
Instrument ID	: VOA108		
Matrix	: WATER	**Analysis Date**	: 03/05/24 18:58

Client Sample No.	Lab Sample ID	Analysis Date
WG1893240-3LCS	WG1893240-3	03/05/24 17:29
WG1893240-4LCSD	WG1893240-4	03/05/24 17:51
FIELD BLANK 030124	L2411464-05	03/05/24 19:20
DUP030124	L2411464-04	03/05/24 19:42
RMW-11R	L2411464-03	03/05/24 20:05
RMW-9R	L2411464-02	03/05/24 20:27
RMW-5	L2411464-01	03/05/24 20:49
RMW-9RMS	WG1893240-6	03/06/24 03:07
RMW-9RMSD	WG1893240-7	03/06/24 03:29

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Instrument ID	: VOA108	**Analysis Date**	: 01/09/24 16:13
Tune Standard	: WG1872847-1	**Tune File ID**	: V08240109NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 80.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1)1
174	Greater than 50.0% of mass 95	82.1
175	5.0 - 9.0% of mass 174	6.2 (7.6)1
176	Greater than 95.0% but less than 101% of mass	80.2 (97.7)1
177	5.0 - 9.0% of mass 176	5.1 (6.3)2

1-Value is % of mass 174 2-Value is % of mass 176

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1783366-1	V08240109N03	01/09/24 17:17
STD0.5PPB	R1783366-2	V08240109N05	01/09/24 18:01
STD2PPB	R1783366-3	V08240109N07	01/09/24 18:46
STD10PPB	R1783366-4	V08240109N09	01/09/24 19:30
STD30PPB	R1783366-5	V08240109N10	01/09/24 19:52
STD80PPB	R1783366-6	V08240109N11	01/09/24 20:14
STD120PPB	R1783366-7	V08240109N12	01/09/24 20:36
STD200PPB	R1783366-8	V08240109N13	01/09/24 20:58
ICV Quant Report	R1783366-9	V08240109N18	01/09/24 22:49

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Instrument ID	: VOA108	**Analysis Date**	: 03/05/24 16:48
Tune Standard	: WG1893240-1	**Tune File ID**	: V08240305NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23
75	30.0 - 80.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	Greater than 50.0% of mass 95	71.9
175	5.0 - 9.0% of mass 174	5.3 (7.4)1
176	Greater than 95.0% but less than 101% of mass	69.6 (96.7)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1893240-2CCAL	WG1893240-2	V08240305N01	03/05/24 17:29
WG1893240-3LCS	WG1893240-3	V08240305N01	03/05/24 17:29
WG1893240-4LCSD	WG1893240-4	V08240305N02	03/05/24 17:51
WG1893240-5BLANK	WG1893240-5	V08240305N05	03/05/24 18:58
FIELD BLANK 030124	L2411464-05	V08240305N06	03/05/24 19:20
DUP030124	L2411464-04	V08240305N07	03/05/24 19:42
RMW-11R	L2411464-03	V08240305N08	03/05/24 20:05
RMW-9R	L2411464-02	V08240305N09	03/05/24 20:27
RMW-5	L2411464-01	V08240305N10	03/05/24 20:49
WG1893240-6MS	WG1893240-6	V08240305N27	03/06/24 03:07
WG1893240-7MSD	WG1893240-7	V08240305N28	03/06/24 03:29

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Instrument ID	: VOA108	**Analysis Date**	: 03/05/24 17:29:00
Sample No	: WG1893240-2	**Lab File ID**	: V08240305N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1893240-2	154204	6.09	110302	9.62	50383	12.30
Upper Limit	308408	6.59	220604	10.12	100766	12.80
Lower Limit	77102	5.59	55151	9.12	25192	11.80
Sample ID						
WG1893240-3 LCS	154204	6.09	110302	9.62	50383	12.30
WG1893240-4 LCSD	159462	6.09	117526	9.62	54378	12.30
WG1893240-5 BLANK	155720	6.09	114264	9.62	48429	12.30
FIELD BLANK 030124	140040	6.09	104484	9.62	46002	12.30
DUP030124	138807	6.09	102143	9.62	44812	12.30
RMW-11R	138838	6.09	102856	9.62	45188	12.30
RMW-9R	137756	6.09	103382	9.62	48873	12.30
RMW-5	136316	6.09	103805	9.62	47561	12.30
RMW-9R MS	219252	6.09	170294	9.62	84994	12.30
RMW-9R MSD	220322	6.09	168367	9.62	83014	12.30

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

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14094-1
Page: 1

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

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.

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Date Created: 03/15/23
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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

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.

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-01	**Date Collected**	: 03/01/24 08:30
Client ID	: RMW-5	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	7.9	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-01	**Date Collected**	: 03/01/24 08:30
Client ID	: RMW-5	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.52	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	0.72	2.5	0.70	J
540-59-0	1,2-Dichloroethene, Total	0.72	2.5	0.70	J
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411464
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411464-01	Date Collected	: 03/01/24 08:30
Client ID	: RMW-5	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/05/24 20:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: RAW
Lab File ID	: V08240305N10	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-01	**Date Collected**	: 03/01/24 08:30
Client ID	: RMW-5	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N10	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-02	**Date Collected**	: 03/01/24 10:30
Client ID	: RMW-9R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.42	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	2.2	0.50	0.16	
108-88-3	Toluene	2.1	2.5	0.70	J
100-41-4	Ethylbenzene	1.6	2.5	0.70	J
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-02	**Date Collected**	: 03/01/24 10:30
Client ID	: RMW-9R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	4.7	2.5	0.70	
95-47-6	o-Xylene	3.9	2.5	0.70	
1330-20-7	Xylenes, Total	8.6	2.5	0.70	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	6.2	5.0	1.5	
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-02	**Date Collected**	: 03/01/24 10:30
Client ID	: RMW-9R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	1.1	2.5	0.70	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.5	0.70	J
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	0.92	2.0	0.70	J
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-02	**Date Collected**	: 03/01/24 10:30
Client ID	: RMW-9R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N09	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-03	**Date Collected**	: 03/01/24 09:30
Client ID	: RMW-11R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	32	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	2.0	1.0	0.07	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-03	**Date Collected**	: 03/01/24 09:30
Client ID	: RMW-11R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	5.3	2.5	0.70	
79-01-6	Trichloroethene	19	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	8.2	2.5	0.70	
540-59-0	1,2-Dichloroethene, Total	14	2.5	0.70	
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411464
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411464-03	Date Collected	: 03/01/24 09:30
Client ID	: RMW-11R	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/05/24 20:05
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: RAW
Lab File ID	: V08240305N08	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-03	**Date Collected**	: 03/01/24 09:30
Client ID	: RMW-11R	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 20:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N08	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-04	**Date Collected**	: 03/01/24 09:35
Client ID	: DUP030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	34	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	2.0	1.0	0.07	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-04	**Date Collected**	: 03/01/24 09:35
Client ID	: DUP030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	5.5	2.5	0.70	
79-01-6	Trichloroethene	19	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	8.6	2.5	0.70	
540-59-0	1,2-Dichloroethene, Total	14	2.5	0.70	
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411464
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: L2411464-04	Date Collected	: 03/01/24 09:35
Client ID	: DUP030124	Date Received	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	Date Analyzed	: 03/05/24 19:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: RAW
Lab File ID	: V08240305N07	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-04	**Date Collected**	: 03/01/24 09:35
Client ID	: DUP030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:20
Sample Matrix	: Field Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:20
Sample Matrix	: Field Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:20
Sample Matrix	: Field Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: L2411464-05	**Date Collected**	: 03/01/24 10:00
Client ID	: FIELD BLANK 030124	**Date Received**	: 03/01/24
Sample Location	: 1590 WHITE PLAINS ROAD, BRONX, NY	**Date Analyzed**	: 03/05/24 19:20
Sample Matrix	: Field Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: V08240305N06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: WG1893240-5	**Date Collected**	: NA
Client ID	: WG1893240-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 18:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: TMS
Lab File ID	: V08240305N05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: WG1893240-5	**Date Collected**	: NA
Client ID	: WG1893240-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 18:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: TMS
Lab File ID	: V08240305N05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2411464
Project Name	: PARKCHESTER CROSSING	Project Number	: 2530.0001Y000
Lab ID	: WG1893240-5	Date Collected	: NA
Client ID	: WG1893240-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/05/24 18:58
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: TMS
Lab File ID	: V08240305N05	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000
Lab ID	: WG1893240-5	**Date Collected**	: NA
Client ID	: WG1893240-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 18:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: TMS
Lab File ID	: V08240305N05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N06.d
Acq On : 5 Mar 2024 7:20 pm
Operator : VOA108:RAW
Sample : L2411464-05,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 06:24:10 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	140040	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 90.81%			
59) Chlorobenzene-d5	9.617	117	104484	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 94.73%			
79) 1,4-Dichlorobenzene-d4	12.301	152	46002	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 91.30%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	38007	10.327	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.27%			
43) 1,2-Dichloroethane-d4	5.805	65	40543	10.347	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.47%			
60) Toluene-d8	7.782	98	135560	10.357	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.57%			
83) 4-Bromofluorobenzene	11.101	95	44230	10.670	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.D.	
6) Chloroethane	0.000		0		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
8) Ethyl ether	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.058	76	51		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	0.000		0		N.D.	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
25) Acrylonitrile	0.000		0		N.D.	
27) Vinyl acetate	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
29) 2,2-Dichloropropane	0.000		0		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
32) Chloroform	0.000		0		N.D.	

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N06.d
Acq On : 5 Mar 2024 7:20 pm
Operator : VOA108:RAW
Sample : L2411464-05,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 06:24:10 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N06.d
Acq On : 5 Mar 2024 7:20 pm
Operator : VOA108:RAW
Sample : L2411464-05,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 06:24:10 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108) Hexachlorobutadiene	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

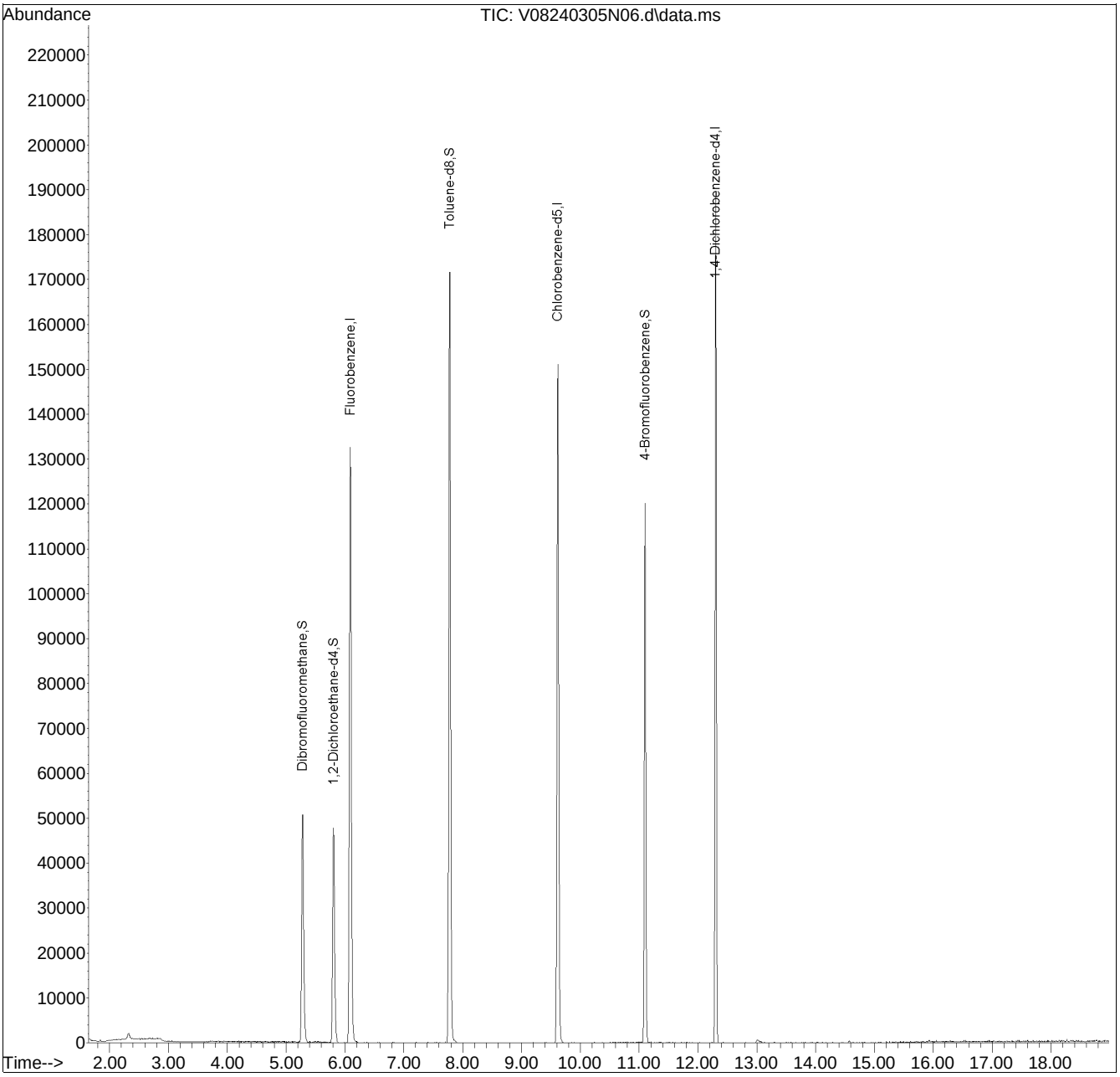
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N06.d
Acq On : 5 Mar 2024 7:20 pm
Operator : VOA108:RAW
Sample : L2411464-05,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 06 06:24:10 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N06.d	Operator	: VOA108:RAW
Date Inj'd	: 3/5/2024 7:20 pm	Instrument	: VOA 108
Sample	: L2411464-05,31,10,10,,A	Quant Date	: 3/6/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N07.d
Acq On : 5 Mar 2024 7:42 pm
Operator : VOA108:RAW
Sample : L2411464-04,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 19:25:56 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	138807	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 90.02%			
59) Chlorobenzene-d5	9.622	117	102143	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 92.60%			
79) 1,4-Dichlorobenzene-d4	12.301	152	44812	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 88.94%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	37864	10.380	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%			
43) 1,2-Dichloroethane-d4	5.805	65	40302	10.377	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.77%			
60) Toluene-d8	7.782	98	132141	10.327	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.27%			
83) 4-Bromofluorobenzene	11.100	95	43494	10.771	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.71%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	1.962	62	7301	1.955	ug/L	97
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.058	76	226	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	3.739	96	16118	5.538	ug/L	85
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.840	96	28695	8.562	ug/L #	79
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N07.d
Acq On : 5 Mar 2024 7:42 pm
Operator : VOA108:RAW
Sample : L2411464-04,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 19:25:56 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D. d		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.266	95	58479	19.197	ug/L	93
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.285	166	102346	34.005	ug/L	94
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N07.d
Acq On : 5 Mar 2024 7:42 pm
Operator : VOA108:RAW
Sample : L2411464-04,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 19:25:56 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108) Hexachlorobutadiene	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	14.435	128	432		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

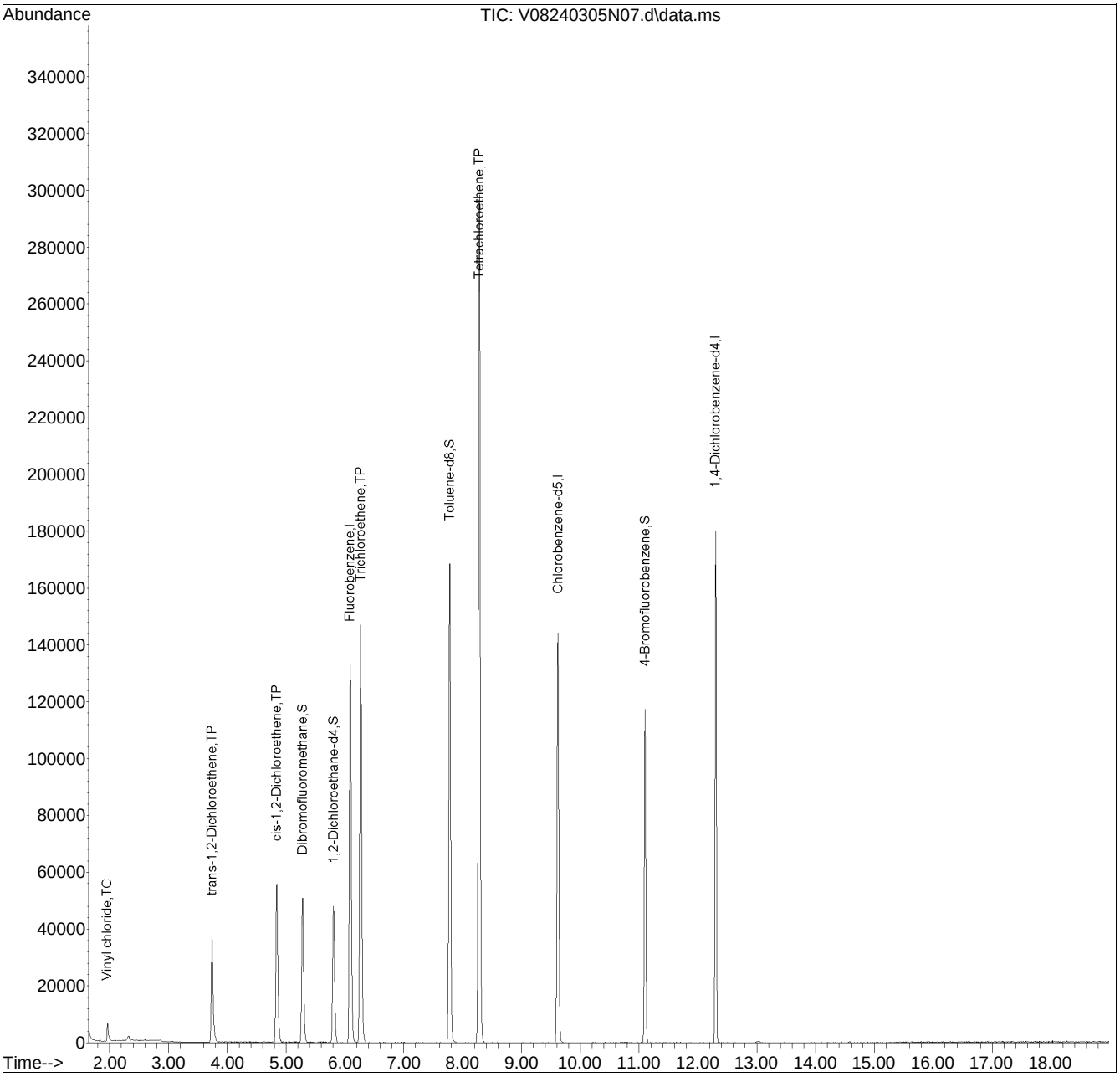
(#) = qualifier out of range (m) = manual integration (+) = signals summed

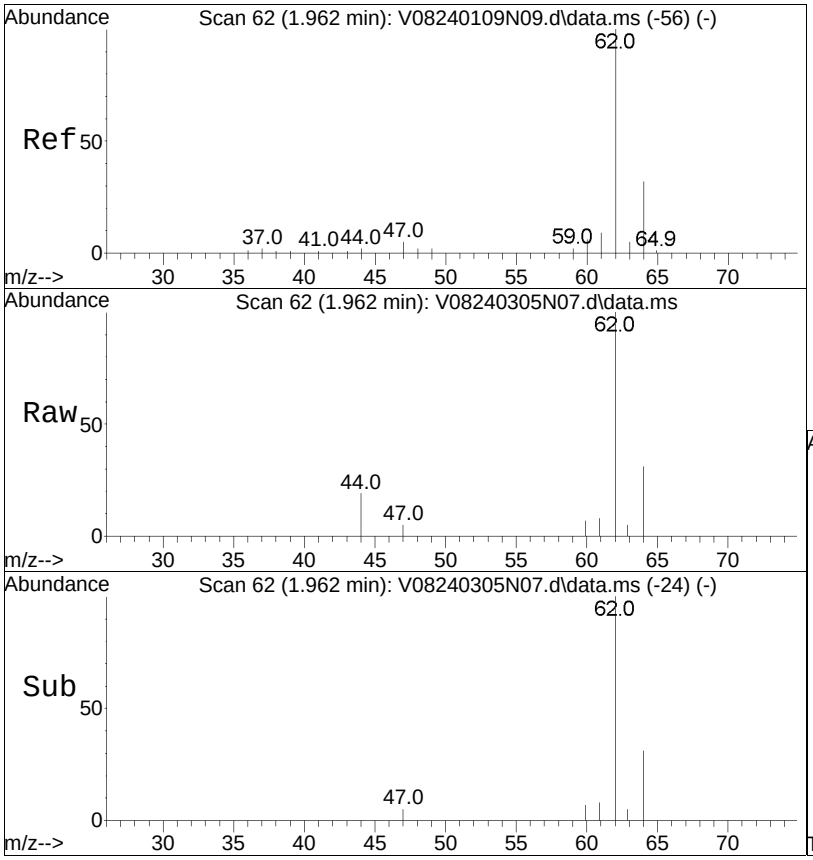
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N07.d
Acq On : 5 Mar 2024 7:42 pm
Operator : VOA108:RAW
Sample : L2411464-04,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 06 19:25:56 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

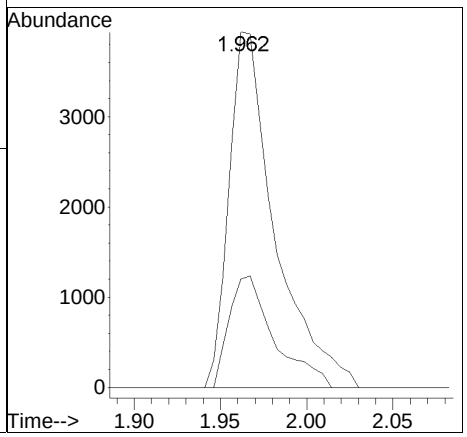


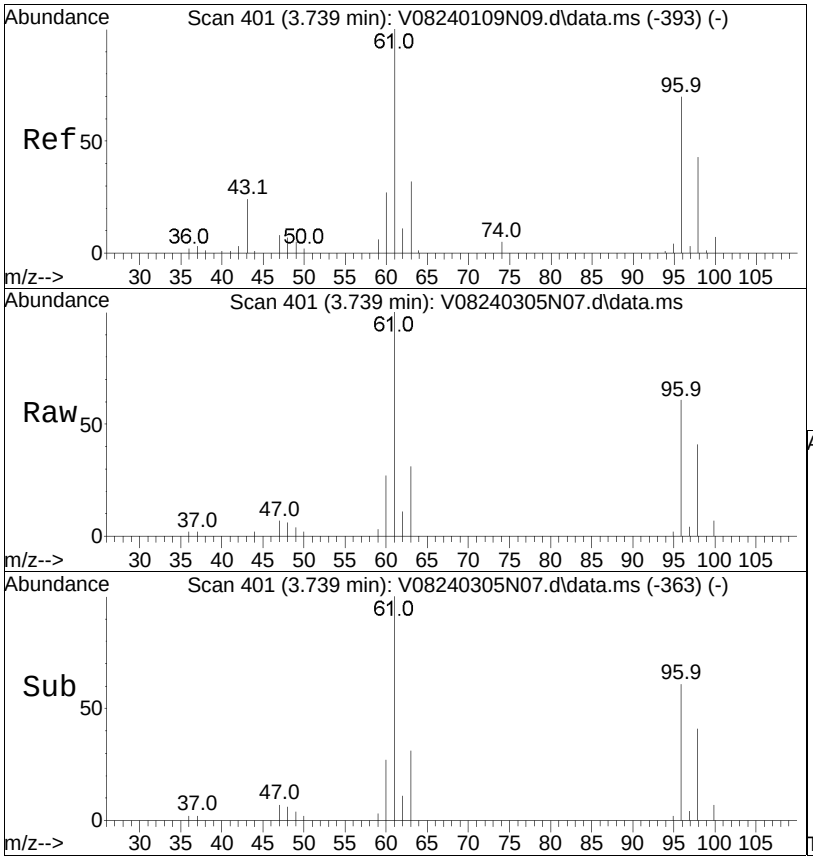


#4
Vinyl chloride
Concen: 1.96 ug/L
RT: 1.962 min Scan# 62
Delta R.T. -0.000 min
Lab File: V08240305N07.d
Acq: 5 Mar 2024 7:42 pm

Tgt Ion: 62 Resp: 7301

Ion	Ratio	Lower	Upper
62	100		
64	30.7	9.1	49.1

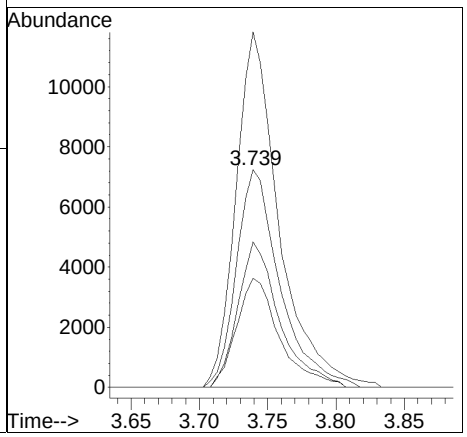


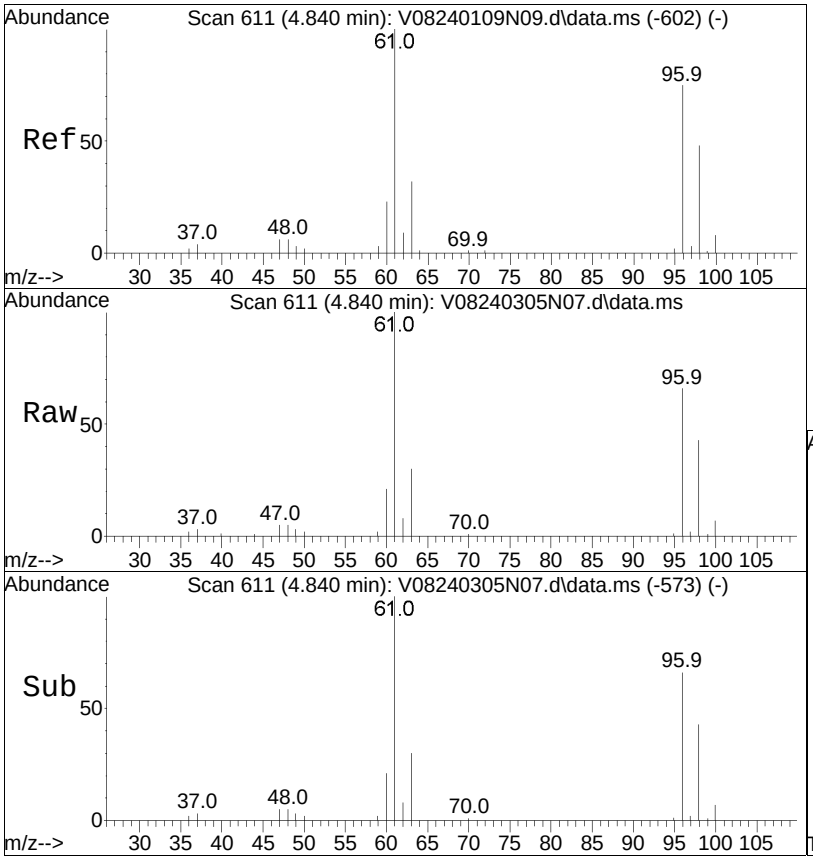


#18
trans-1,2-Dichloroethene
Concen: 5.54 ug/L
RT: 3.739 min Scan# 401
Delta R.T. -0.000 min
Lab File: V08240305N07.d
Acq: 5 Mar 2024 7:42 pm

Tgt Ion: 96 Resp: 16118

Ion	Ratio	Lower	Upper
96	100		
61	161.5	124.0	257.6
98	63.9	41.2	85.6
63	49.6	38.4	79.7

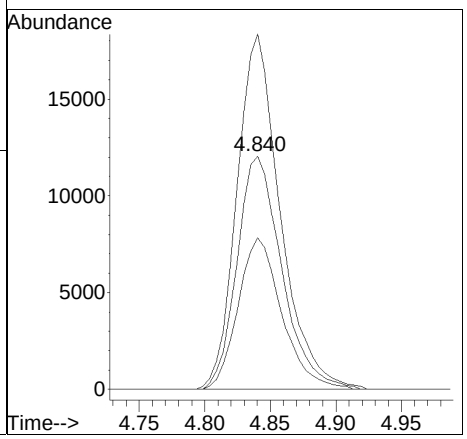


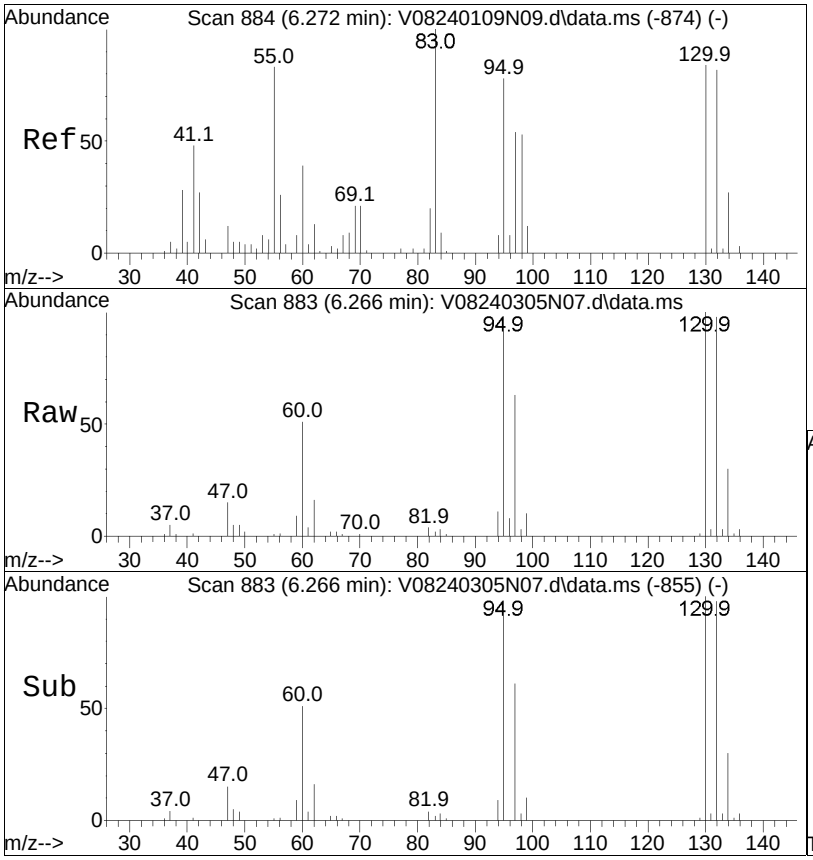


#28
cis-1,2-Dichloroethene
Concen: 8.56 ug/L
RT: 4.840 min Scan# 611
Delta R.T. -0.000 min
Lab File: V08240305N07.d
Acq: 5 Mar 2024 7:42 pm

Tgt Ion: 96 Resp: 28695

Ion	Ratio	Lower	Upper
96	100		
61	147.4	149.4	224.2#
98	63.4	53.4	80.2

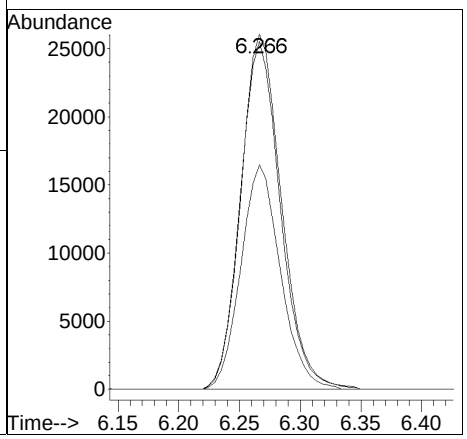


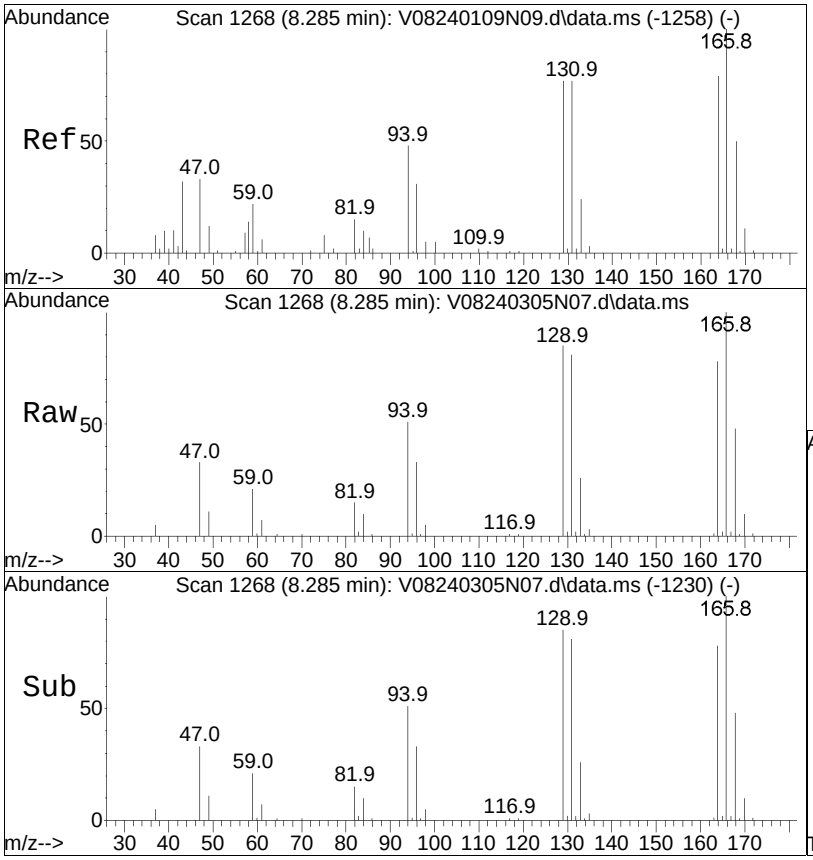


#48
Trichloroethene
Concen: 19.20 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N07.d
Acq: 5 Mar 2024 7:42 pm

Tgt Ion: 95 Resp: 58479

Ion	Ratio	Lower	Upper
95	100		
97	64.1	55.5	83.3
130	103.7	76.6	115.0

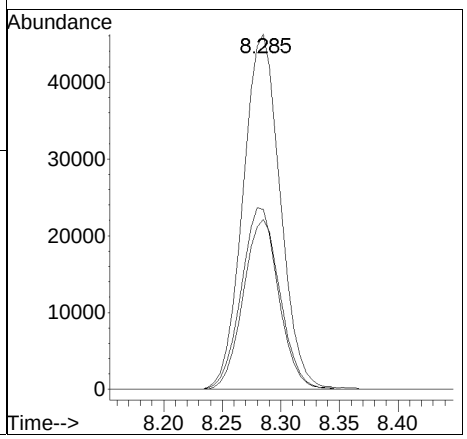




#63
Tetrachloroethene
Concen: 34.01 ug/L
RT: 8.285 min Scan# 1268
Delta R.T. -0.000 min
Lab File: V08240305N07.d
Acq: 5 Mar 2024 7:42 pm

Tgt Ion:166 Resp: 102346

Ion	Ratio	Lower	Upper
166	100		
168	47.9	28.2	68.2
94	50.9	38.4	78.4



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N07.d	Operator	: VOA108:RAW
Date Inj'd	: 3/5/2024 7:42 pm	Instrument	: VOA 108
Sample	: L2411464-04,31,10,10,,A	Quant Date	: 3/6/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N08.d
Acq On : 5 Mar 2024 8:05 pm
Operator : VOA108:RAW
Sample : L2411464-03,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 06 19:26:31 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	138838	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 90.04%			
59) Chlorobenzene-d5	9.622	117	102856	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 93.25%			
79) 1,4-Dichlorobenzene-d4	12.301	152	45188	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 89.69%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	37696	10.331	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.31%			
43) 1,2-Dichloroethane-d4	5.805	65	41198	10.606	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.06%			
60) Toluene-d8	7.782	98	132171	10.258	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.58%			
83) 4-Bromofluorobenzene	11.100	95	42975	10.554	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	1.962	62	7325	1.961	ug/L	99
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.063	76	59	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.739	96	15501	5.325	ug/L	85
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.840	96	27634	8.243	ug/L #	78
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N08.d
Acq On : 5 Mar 2024 8:05 pm
Operator : VOA108:RAW
Sample : L2411464-03,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 06 19:26:31 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.266	95	56771	18.633	ug/L	92
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.285	166	97376	32.130	ug/L	94
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N08.d
Acq On : 5 Mar 2024 8:05 pm
Operator : VOA108:RAW
Sample : L2411464-03,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 06 19:26:31 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108) Hexachlorobutadiene	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	14.440	128	415		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

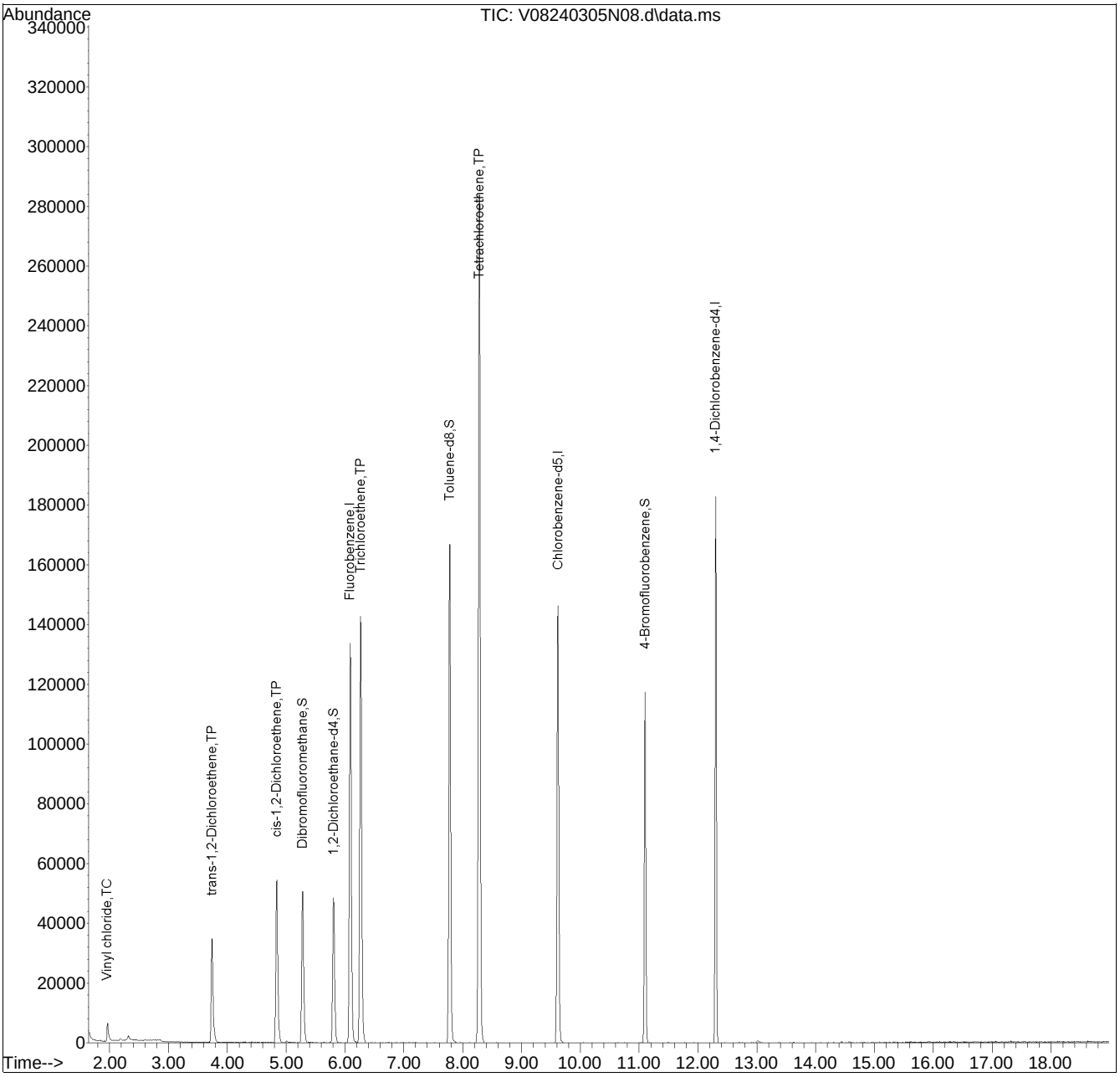
(#) = qualifier out of range (m) = manual integration (+) = signals summed

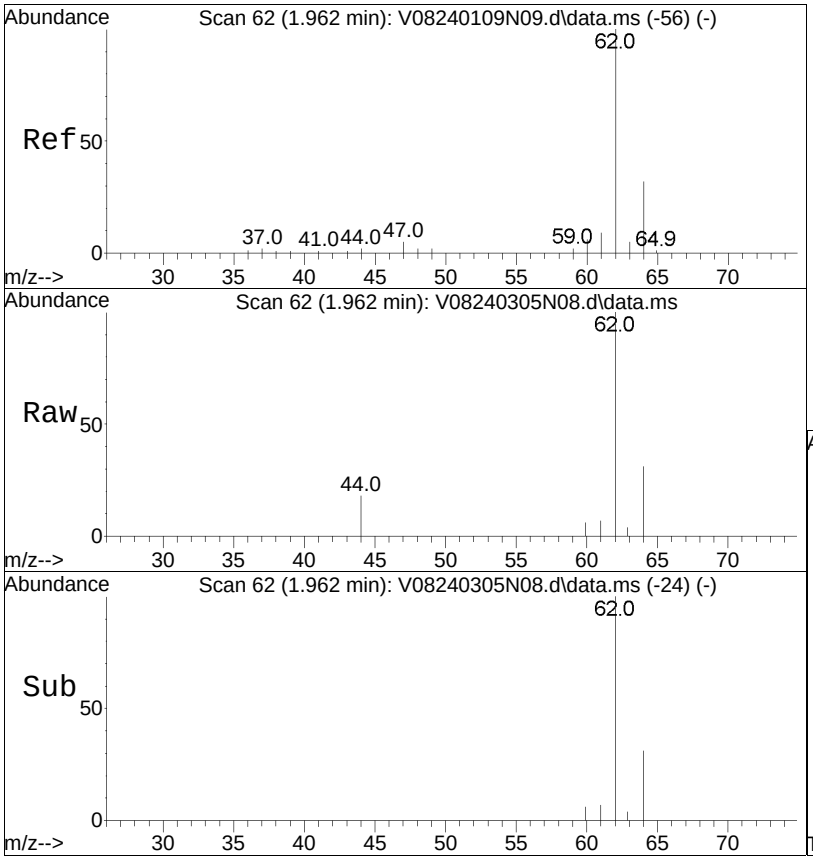
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N08.d
Acq On : 5 Mar 2024 8:05 pm
Operator : VOA108:RAW
Sample : L2411464-03,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 06 19:26:31 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

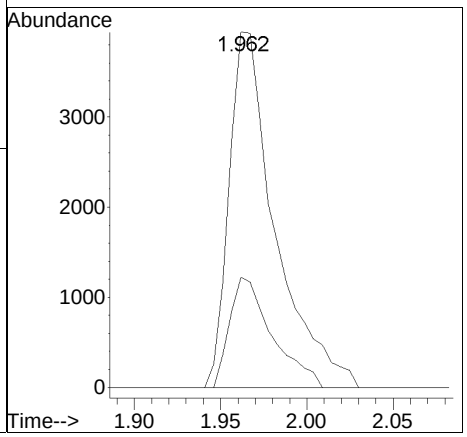


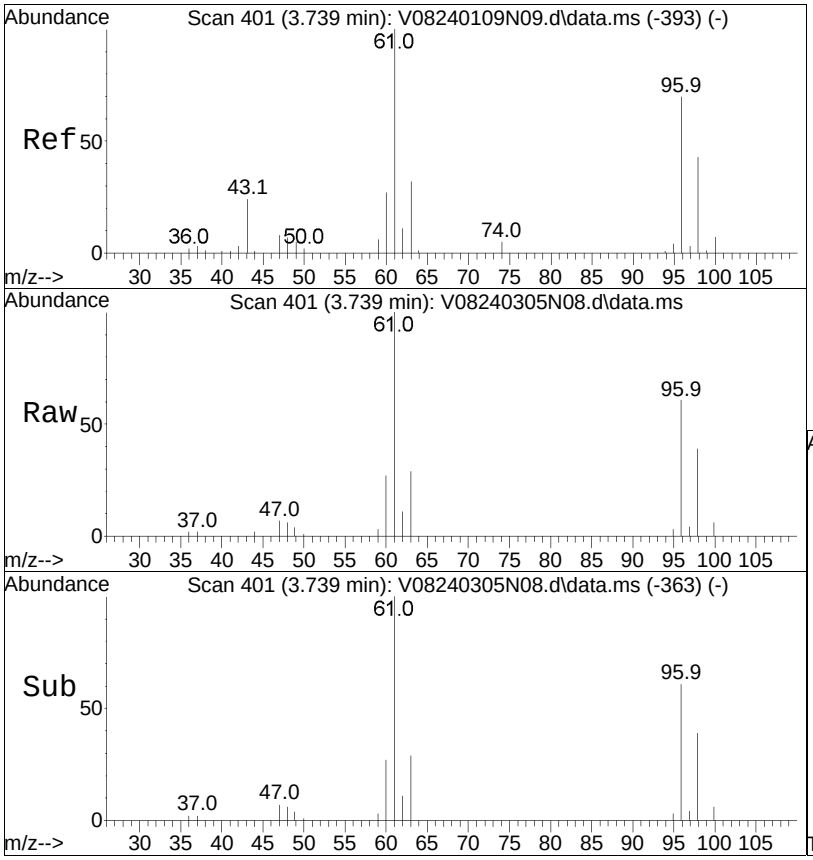


#4
Vinyl chloride
Concen: 1.96 ug/L
RT: 1.962 min Scan# 62
Delta R.T. -0.000 min
Lab File: V08240305N08.d
Acq: 5 Mar 2024 8:05 pm

Tgt Ion: 62 Resp: 7325

Ion	Ratio	Lower	Upper
62	100		
64	28.7	9.1	49.1

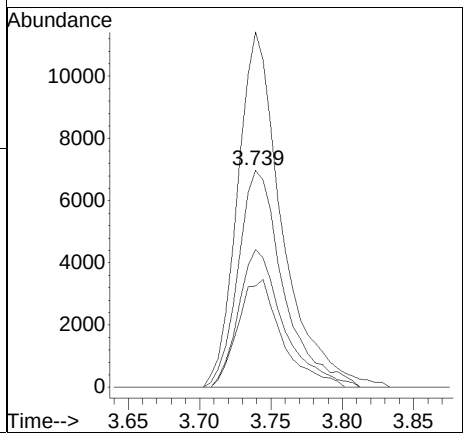


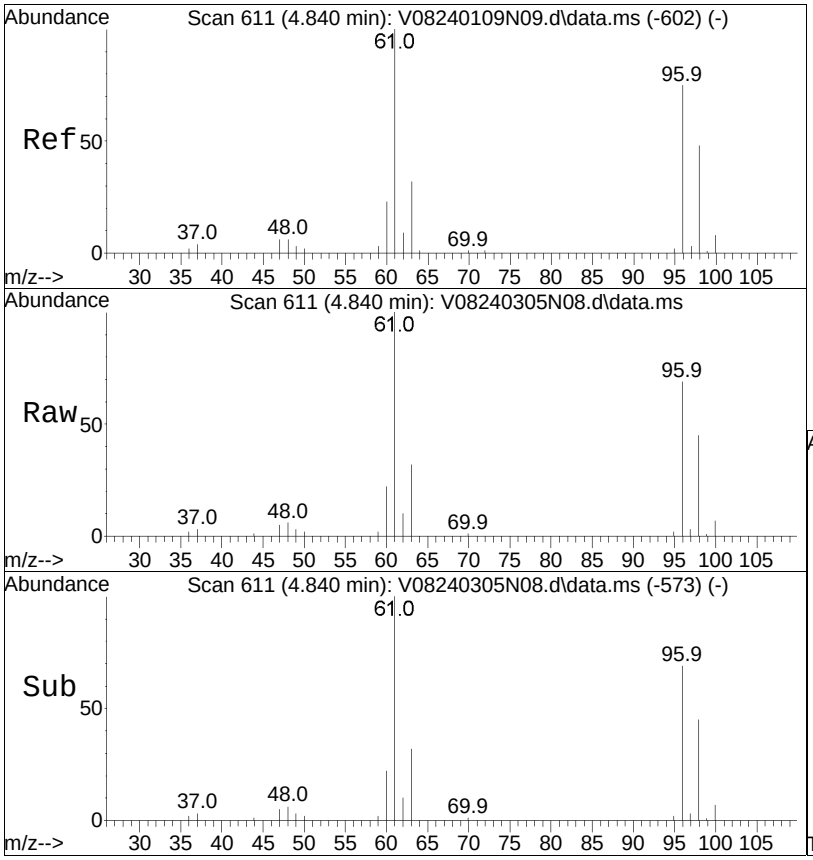


#18
trans-1,2-Dichloroethene
Concen: 5.33 ug/L
RT: 3.739 min Scan# 401
Delta R.T. -0.000 min
Lab File: V08240305N08.d
Acq: 5 Mar 2024 8:05 pm

Tgt Ion: 96 Resp: 15501

Ion	Ratio	Lower	Upper
96	100		
61	161.1	124.0	257.6
98	63.1	41.2	85.6
63	48.7	38.4	79.7

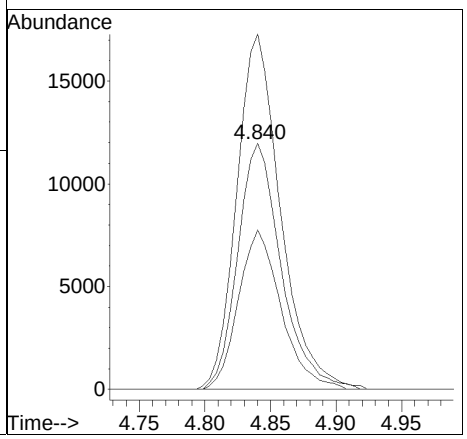


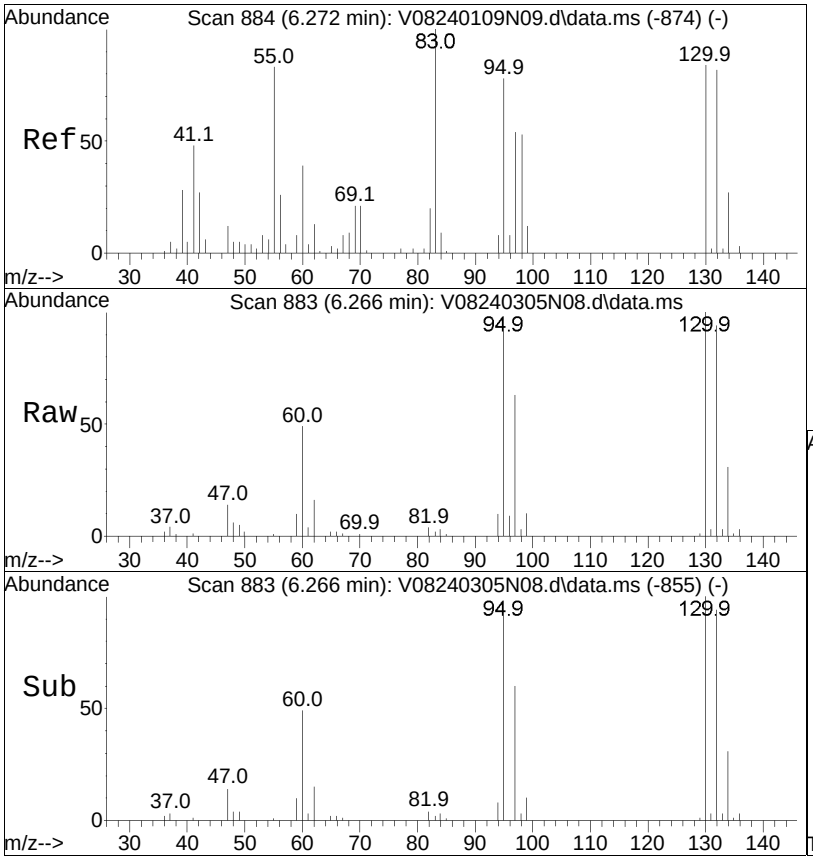


#28
cis-1,2-Dichloroethene
Concen: 8.24 ug/L
RT: 4.840 min Scan# 611
Delta R.T. -0.000 min
Lab File: V08240305N08.d
Acq: 5 Mar 2024 8:05 pm

Tgt Ion: 96 Resp: 27634

Ion	Ratio	Lower	Upper
96	100		
61	145.8	149.4	224.2#
98	63.7	53.4	80.2

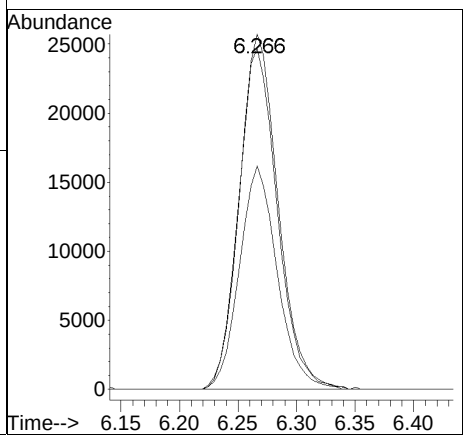


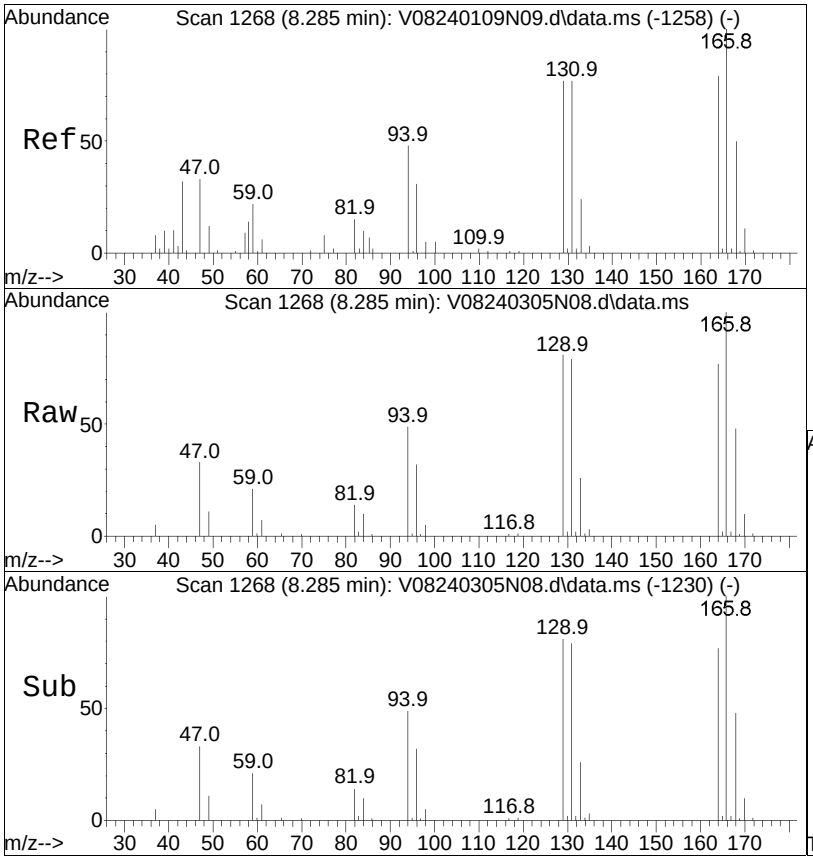


#48
Trichloroethene
Concen: 18.63 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N08.d
Acq: 5 Mar 2024 8:05 pm

Tgt Ion: 95 Resp: 56771

Ion	Ratio	Lower	Upper
95	100		
97	64.2	55.5	83.3
130	103.9	76.6	115.0

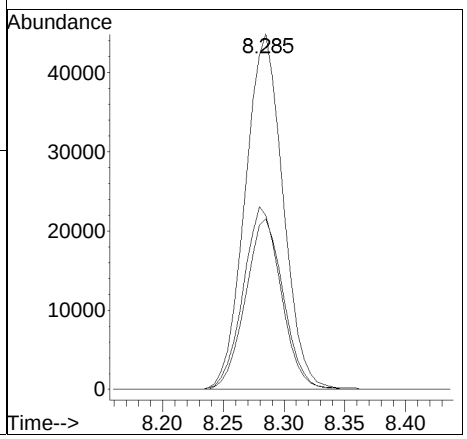




#63
Tetrachloroethene
Concen: 32.13 ug/L
RT: 8.285 min Scan# 1268
Delta R.T. -0.000 min
Lab File: V08240305N08.d
Acq: 5 Mar 2024 8:05 pm

Tgt Ion:166 Resp: 97376

Ion	Ratio	Lower	Upper
166	100		
168	48.1	28.2	68.2
94	50.9	38.4	78.4



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N08.d	Operator	: VOA108:RAW
Date Inj'd	: 3/5/2024 8:05 pm	Instrument	: VOA 108
Sample	: L2411464-03,31,10,10,,A	Quant Date	: 3/6/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N09.d
Acq On : 5 Mar 2024 8:27 pm
Operator : VOA108:RAW
Sample : L2411464-02,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 06 19:28:35 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.088	96	137756	10.000 ug/L	0.00
Standard Area 1 = 154204			Recovery = 89.33%		
59) Chlorobenzene-d5	9.617	117	103382	10.000 ug/L	0.00
Standard Area 1 = 110302			Recovery = 93.73%		
79) 1,4-Dichlorobenzene-d4	12.301	152	48873	10.000 ug/L	0.00
Standard Area 1 = 50383			Recovery = 97.00%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.281	113	37437	10.341 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.41%		
43) 1,2-Dichloroethane-d4	5.805	65	41221	10.695 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.95%		
60) Toluene-d8	7.776	98	132917	10.263 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.63%		
83) 4-Bromofluorobenzene	11.100	95	46167	10.483 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.83%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.282	94	59	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethyl ether	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D. d	
17) Acetone	3.624	43	2981	6.165 ug/L #	65
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
25) Acrylonitrile	0.000		0	N.D. d	
27) Vinyl acetate	0.000		0	N.D. d	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D. d	

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N09.d
Acq On : 5 Mar 2024 8:27 pm
Operator : VOA108:RAW
Sample : L2411464-02,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 06 19:28:35 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D. d		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.674	78	25588	2.215	ug/L	94
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.266	95	217	0.072	ug/L #	63
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.839	92	14685	2.061	ug/L	99
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.285	166	1278	0.420	ug/L	88
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.680	91	22822	1.651	ug/L	99
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	9.868	106	25573	4.661	ug/L	95
77) o Xylene	10.403	106	21313	3.925	ug/L	94
78) Styrene	0.000		0	N.D. d		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D. d		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	11.258	91	1133	0.076	ug/L #	87
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	11.373	105	11683	0.920	ug/L	95
89) 2-Chlorotoluene	0.000		0	N.D. d		
90) 1,3,5-Trimethylbenzene	11.483	105	12527	1.145	ug/L	90
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
93) 4-Chlorotoluene	0.000		0	N.D. d		
94) tert-Butylbenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N09.d
Acq On : 5 Mar 2024 8:27 pm
Operator : VOA108:RAW
Sample : L2411464-02,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 06 19:28:35 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	11.897	105	13851	1.286	ug/L	93
98) sec-Butylbenzene	0.000		0	N.D.	d	
99) p-Isopropyltoluene	0.000		0	N.D.	d	
100) 1,3-Dichlorobenzene	0.000		0	N.D.	d	
101) 1,4-Dichlorobenzene	12.317	146	589	0.091	ug/L #	24
102) p-Diethylbenzene	0.000		0	N.D.	d	
103) n-Butylbenzene	0.000		0	N.D.	d	
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
105) 1,2,4,5-Tetramethylben...	13.324	119	1123	0.093	ug/L #	79
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108) Hexachlorobutadiene	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
110) Naphthalene	14.435	128	3329	0.415	ug/L	100
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

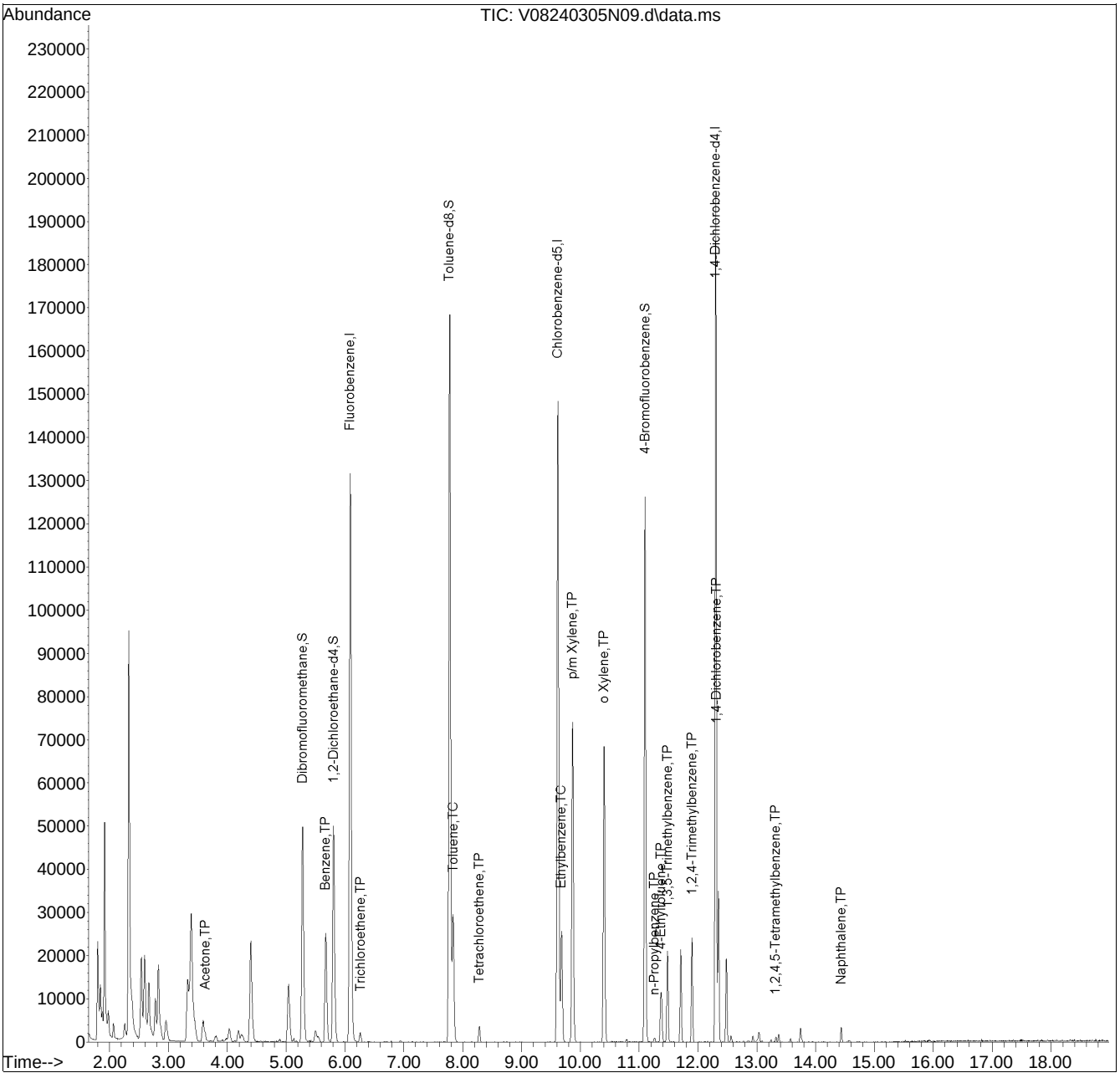
(#) = qualifier out of range (m) = manual integration (+) = signals summed

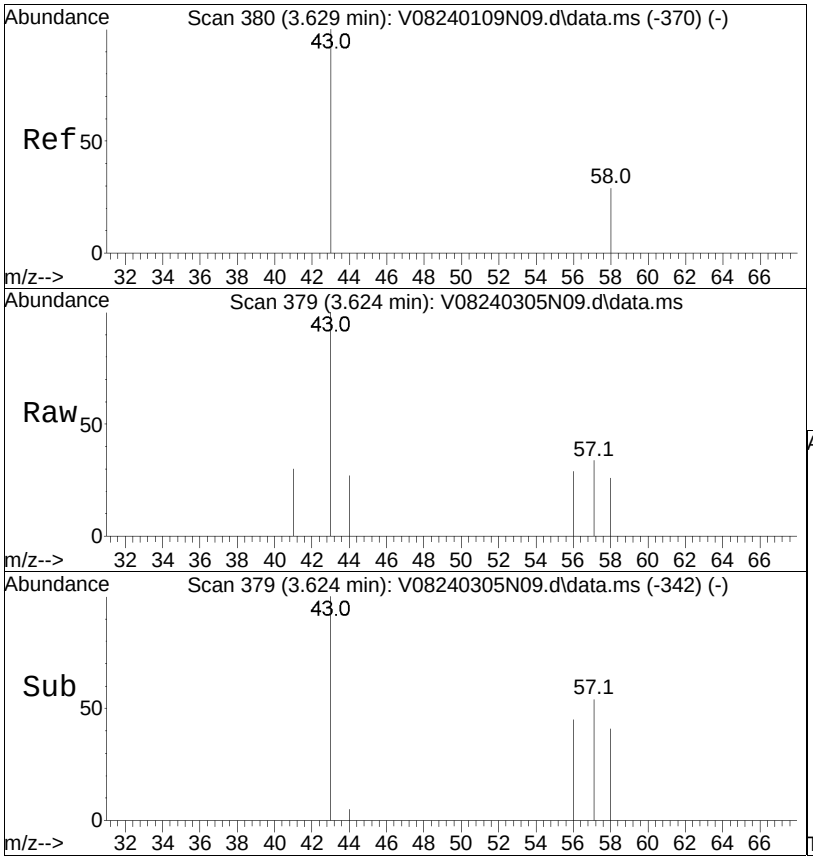
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N09.d
Acq On : 5 Mar 2024 8:27 pm
Operator : VOA108:RAW
Sample : L2411464-02,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 06 19:28:35 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

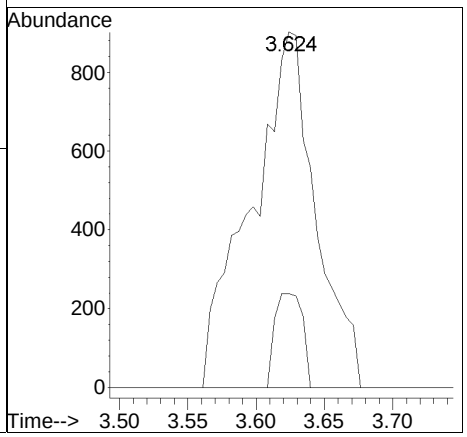


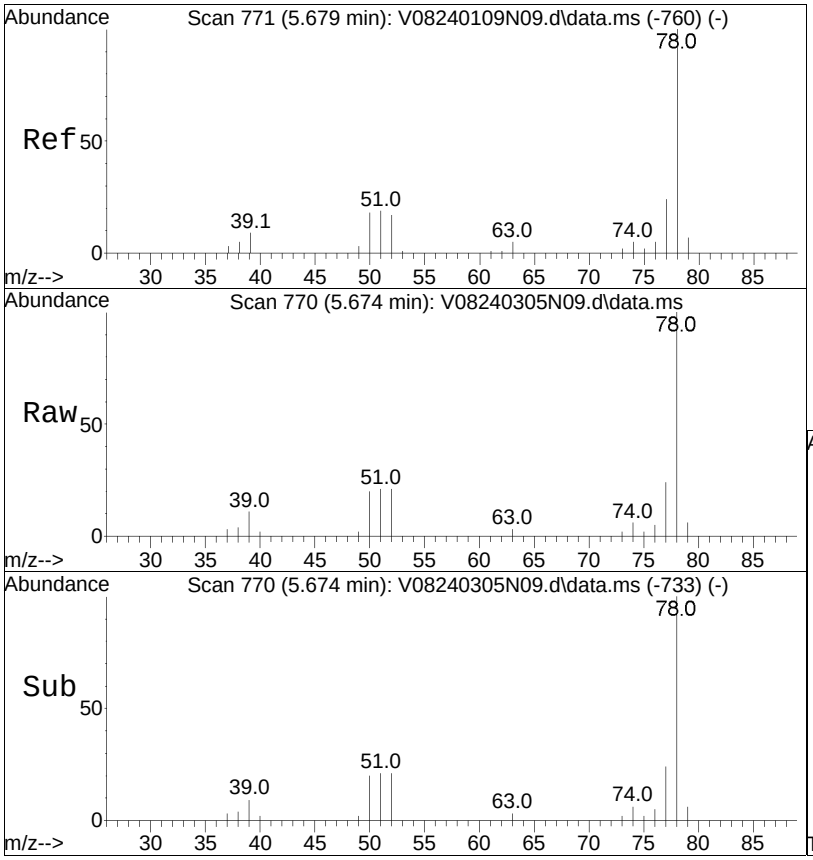


#17
Acetone
Concen: 6.16 ug/L
RT: 3.624 min Scan# 379
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 43 Resp: 2981

Ion	Ratio	Lower	Upper
43	100		
58	11.2	24.2	36.4#

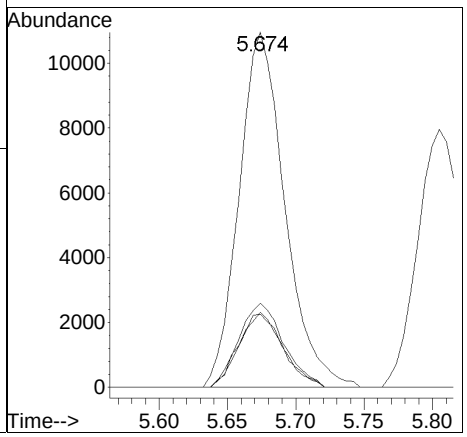


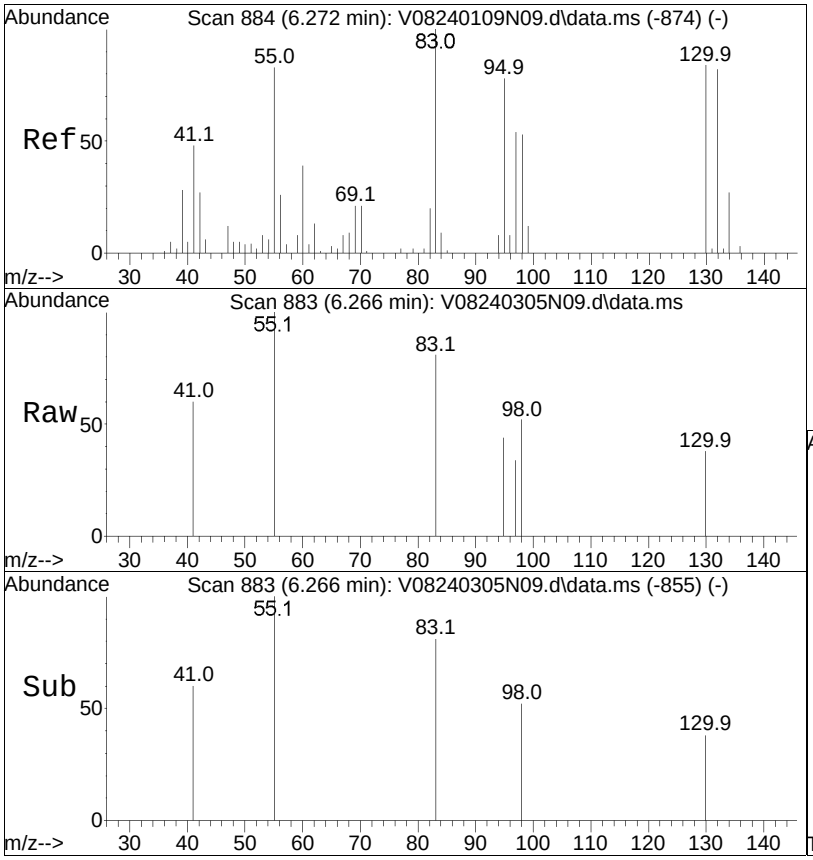


#41
Benzene
Concen: 2.21 ug/L
RT: 5.674 min Scan# 770
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 78 Resp: 25588

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.7	32.7
51	20.3	16.0	33.2
52	20.2	15.3	31.9

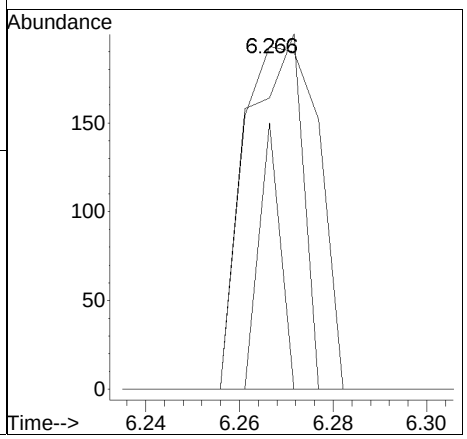


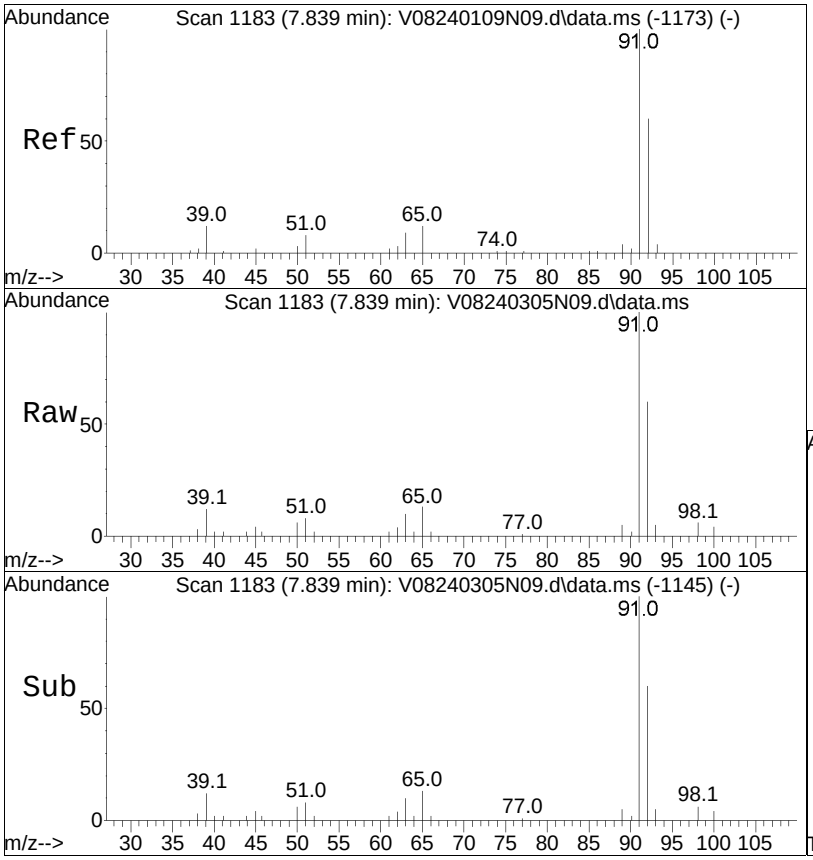


#48
Trichloroethene
Concen: 0.07 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 95 Resp: 217

Ion	Ratio	Lower	Upper
95	100		
97	21.7	55.5	83.3#
130	75.6	76.6	115.0#

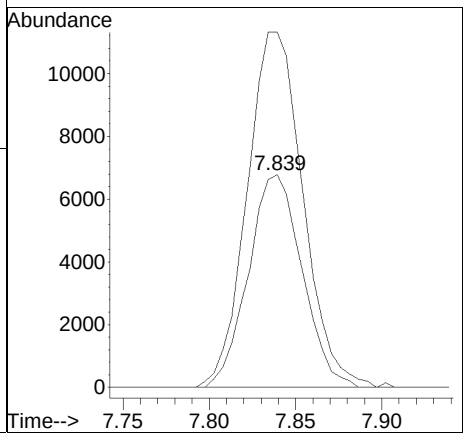


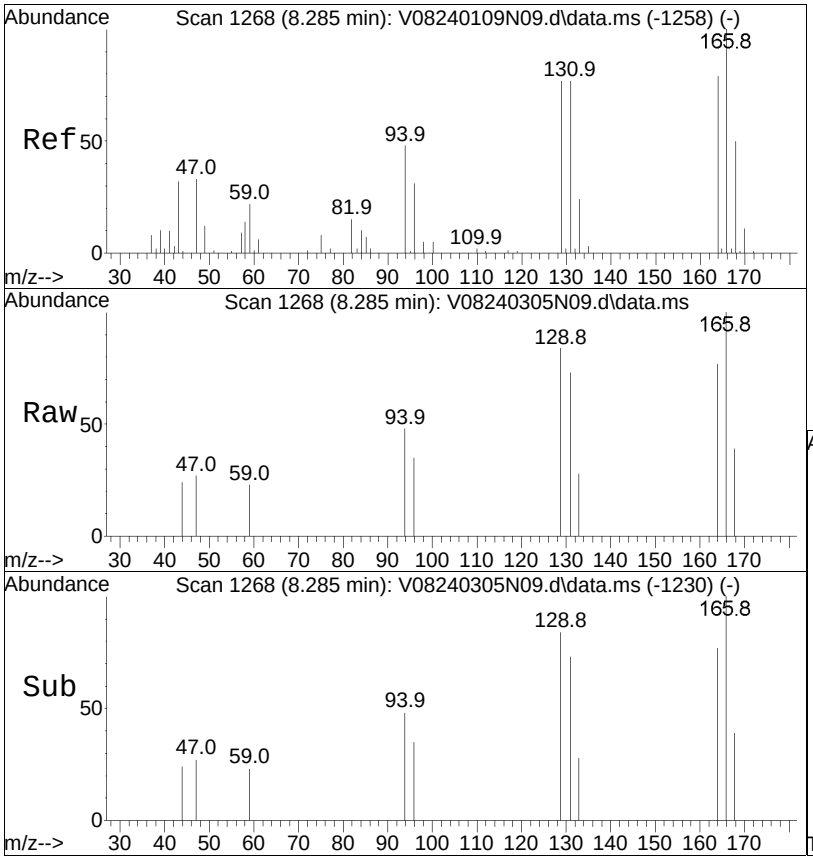


#61
Toluene
Concen: 2.06 ug/L
RT: 7.839 min Scan# 1183
Delta R.T. -0.000 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 92 Resp: 14685

Ion	Ratio	Lower	Upper
92	100		
91	173.8	139.8	209.6

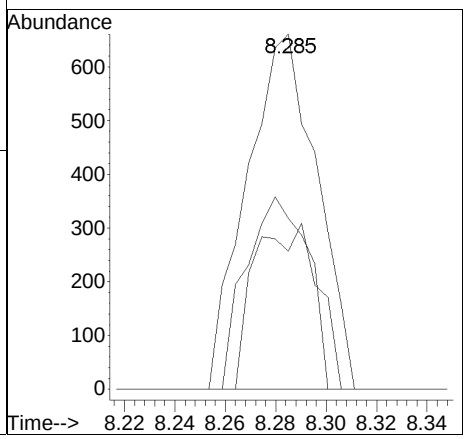


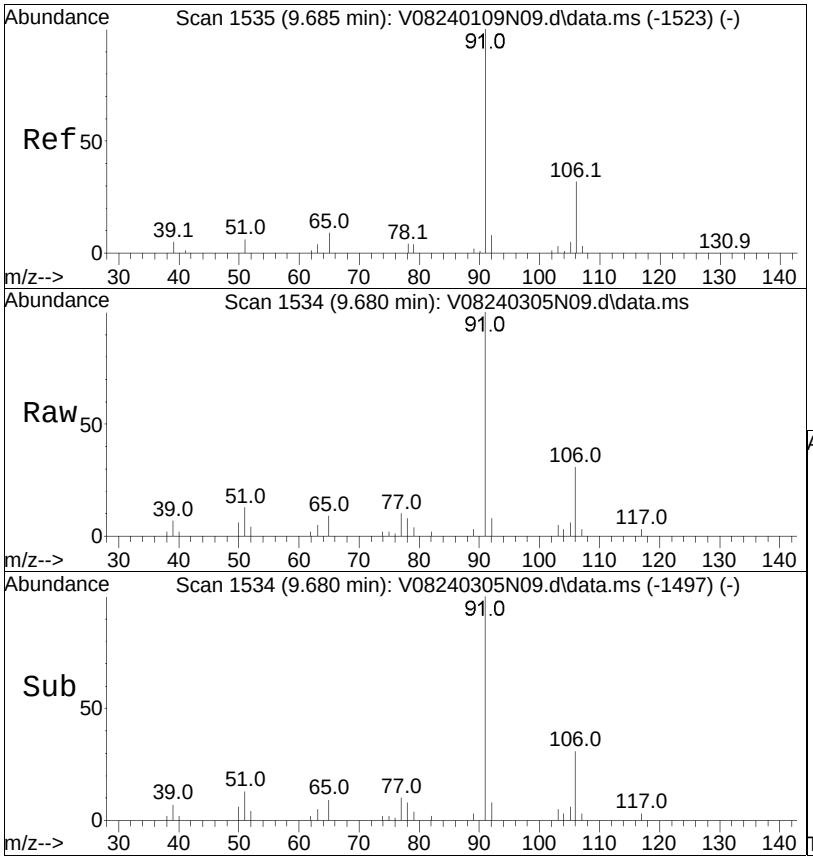


#63
Tetrachloroethene
Concen: 0.42 ug/L
RT: 8.285 min Scan# 1268
Delta R.T. -0.000 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:166 Resp: 1278

Ion	Ratio	Lower	Upper
166	100		
168	42.2	28.2	68.2
94	47.6	38.4	78.4

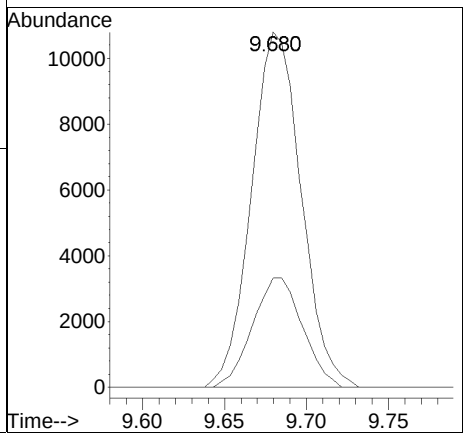


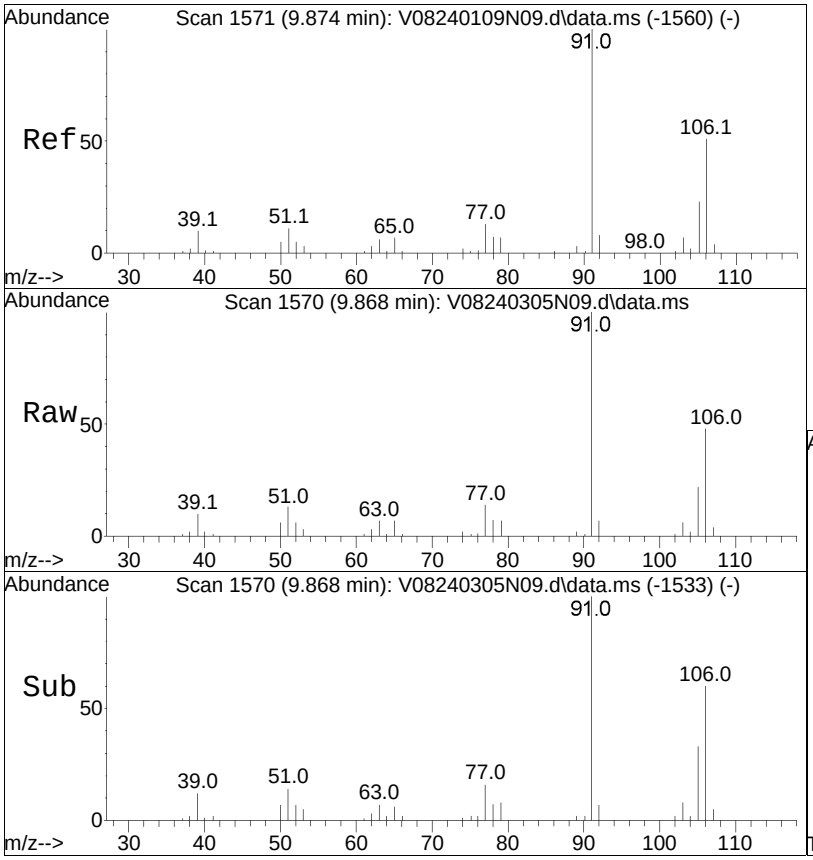


#74
Ethylbenzene
Concen: 1.65 ug/L
RT: 9.680 min Scan# 1534
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 91 Resp: 22822

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.3	36.5

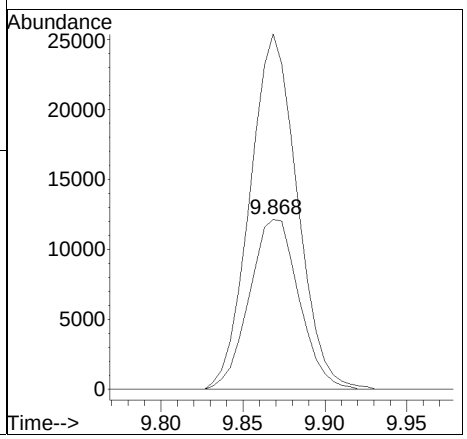


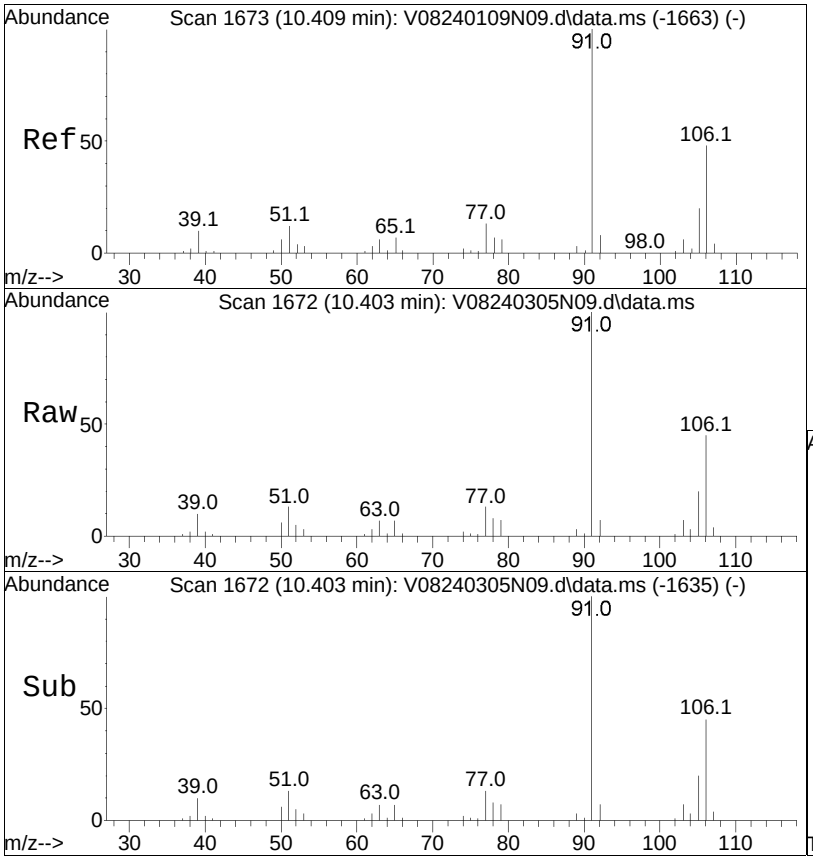


#76
p/m Xylene
Concen: 4.66 ug/L
RT: 9.868 min Scan# 1570
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:106 Resp: 25573

Ion	Ratio	Lower	Upper
106	100		
91	199.8	166.4	249.6

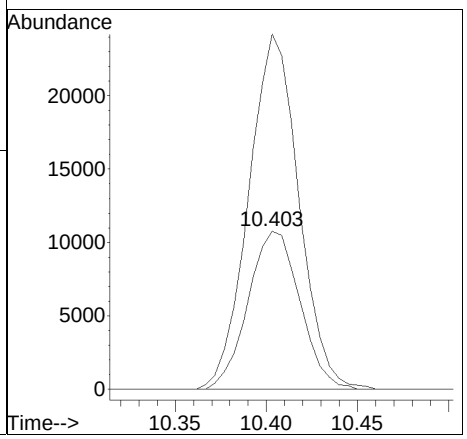


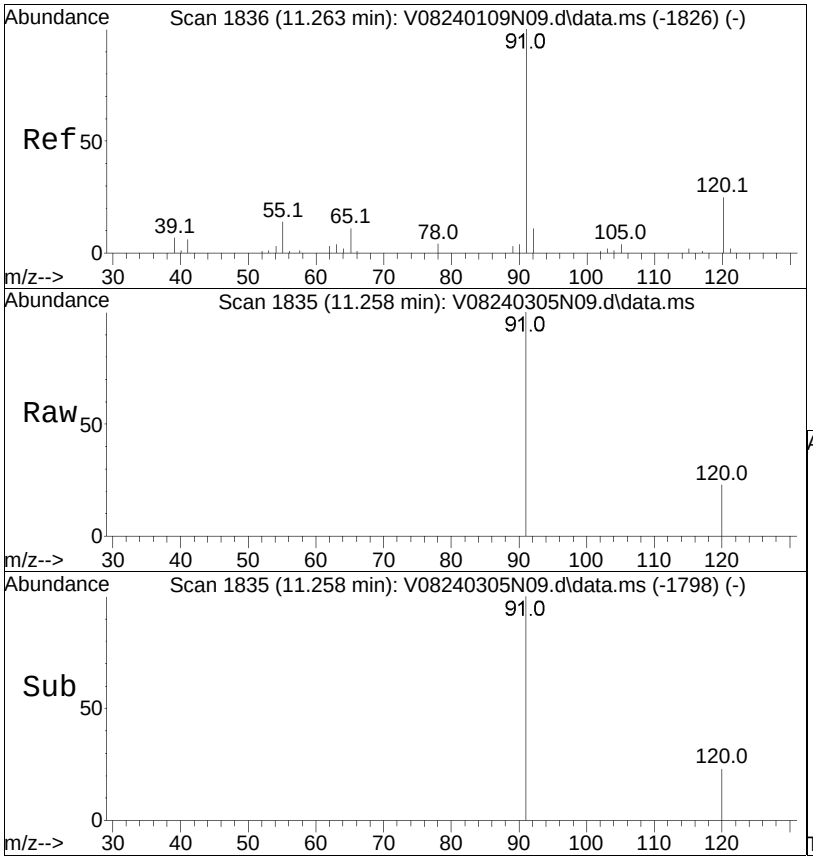


#77
o Xylene
Concen: 3.92 ug/L
RT: 10.403 min Scan# 1672
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:106 Resp: 21313

Ion	Ratio	Lower	Upper
106	100		
91	217.6	182.6	273.8

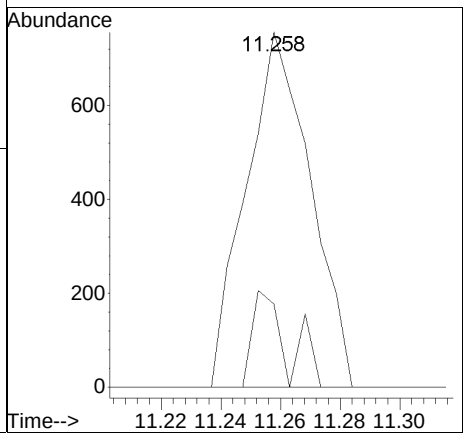


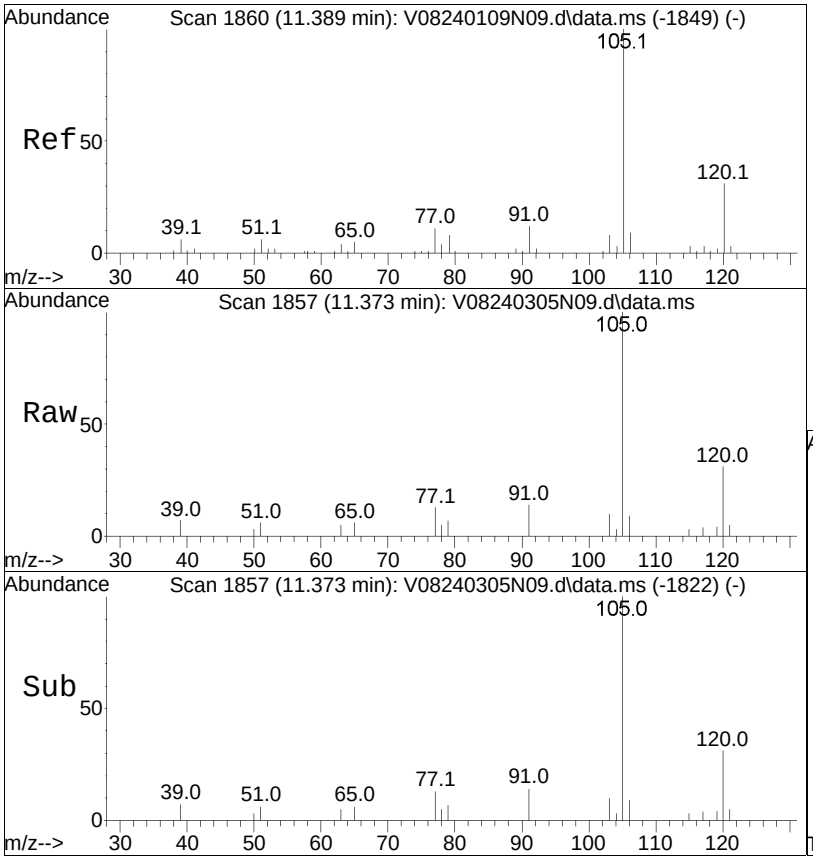


#85
n-Propylbenzene
Concen: 0.08 ug/L
RT: 11.258 min Scan# 1835
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion: 91 Resp: 1133

Ion	Ratio	Lower	Upper
91	100		
120	15.0	17.0	25.6#

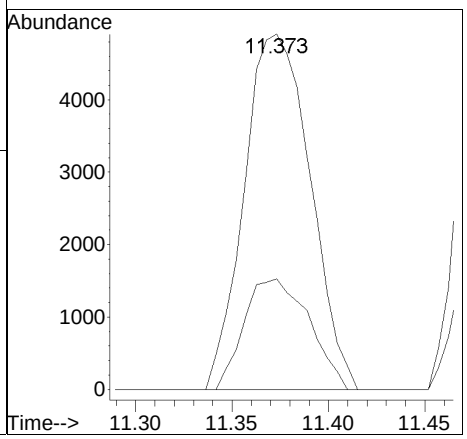


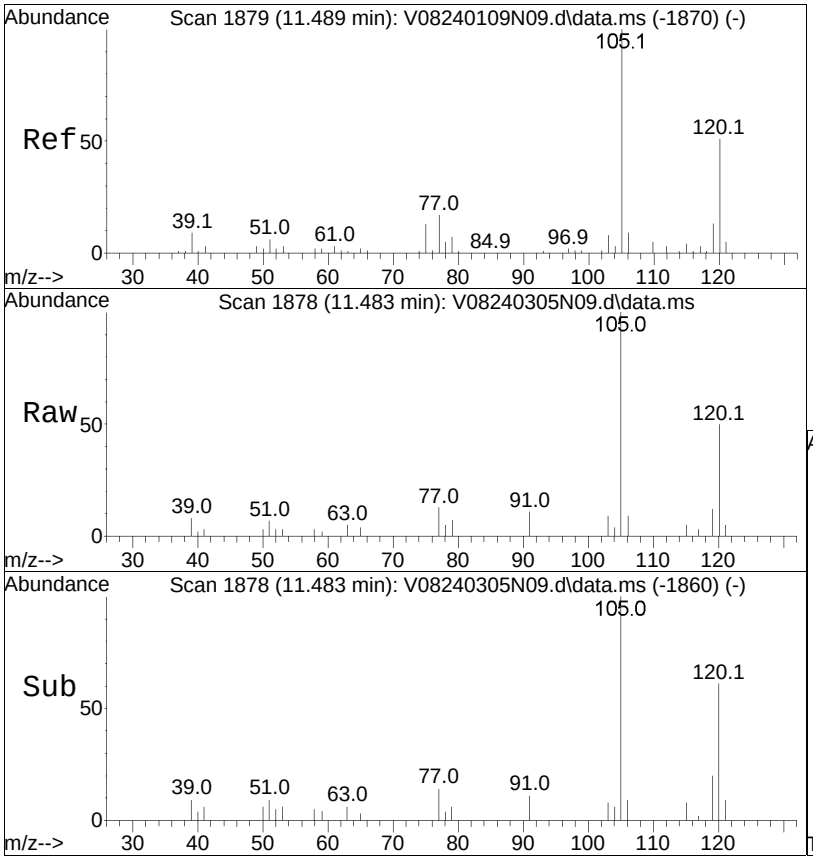


#88
4-Ethyltoluene
Concen: 0.92 ug/L
RT: 11.373 min Scan# 1857
Delta R.T. -0.016 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:105 Resp: 11683

Ion	Ratio	Lower	Upper
105	100		
120	30.6	18.1	37.7

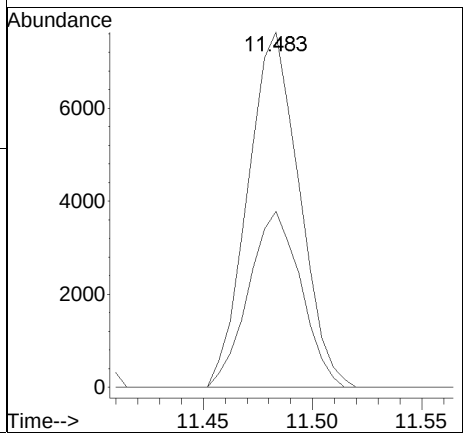


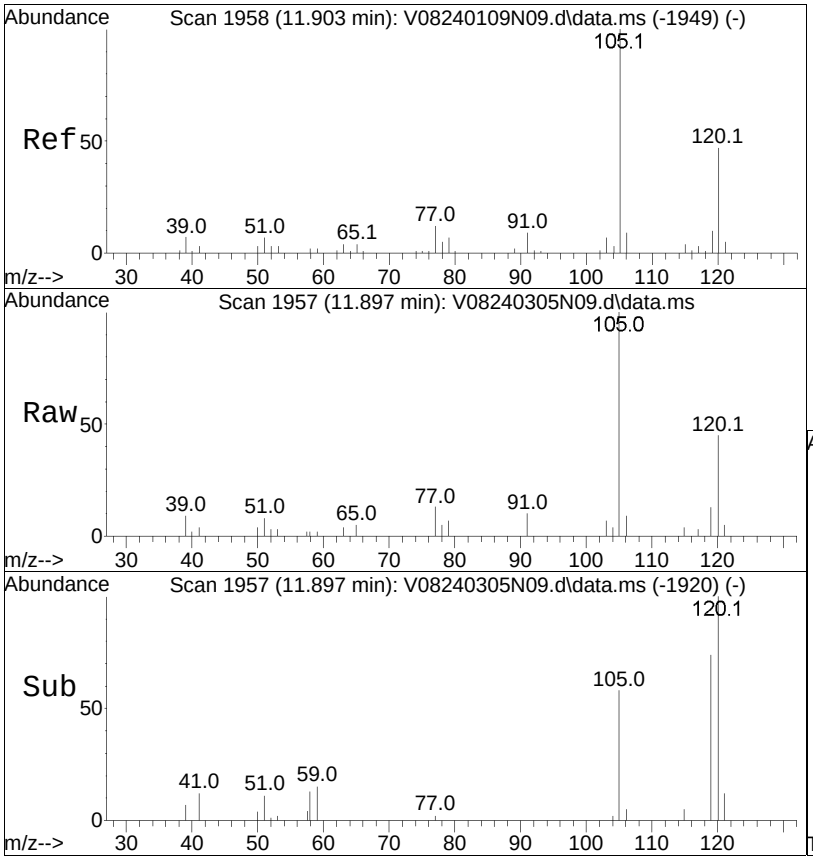


#90
1,3,5-Trimethylbenzene
Concen: 1.14 ug/L
RT: 11.483 min Scan# 1878
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:105 Resp: 12527

Ion	Ratio	Lower	Upper
105	100		
120	50.2	34.8	52.2

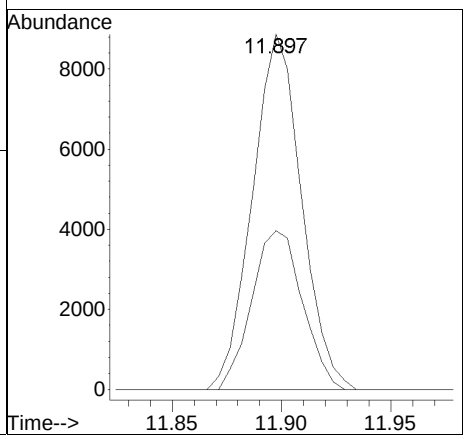


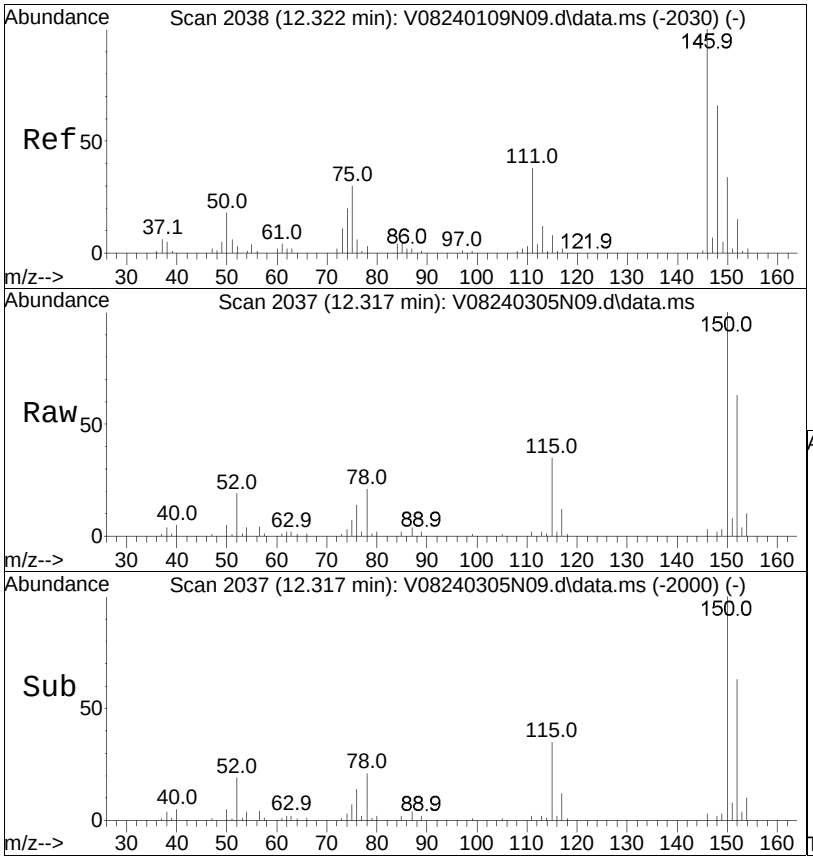


#97
1,2,4-Trimethylbenzene
Concen: 1.29 ug/L
RT: 11.897 min Scan# 1957
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:105 Resp: 13851

Ion	Ratio	Lower	Upper
105	100		
120	46.1	33.4	50.0

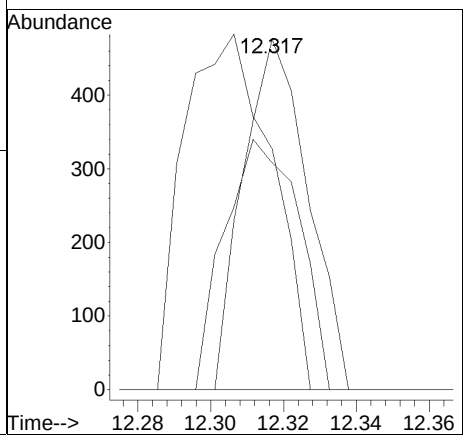


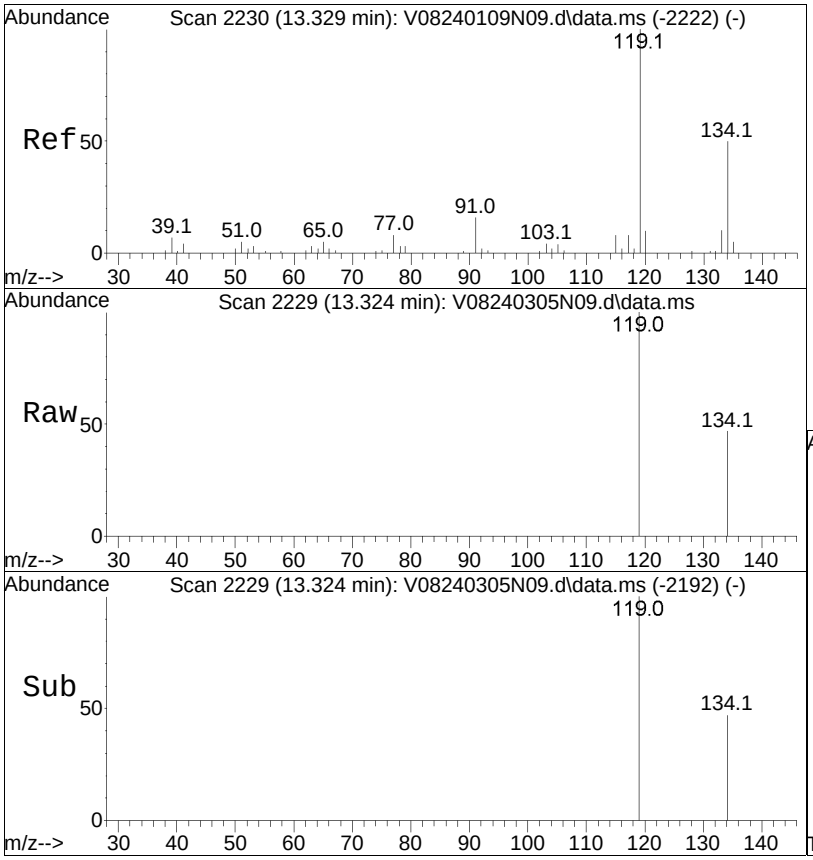


#101
1,4-Dichlorobenzene
Concen: 0.09 ug/L
RT: 12.317 min Scan# 2037
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:146 Resp: 589

Ion	Ratio	Lower	Upper
146	100		
111	137.0	32.3	48.5#
148	81.8	49.9	74.9#

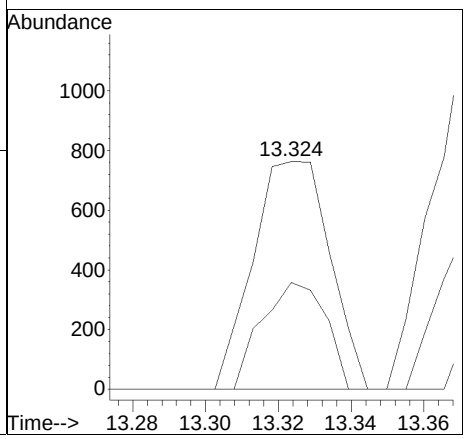


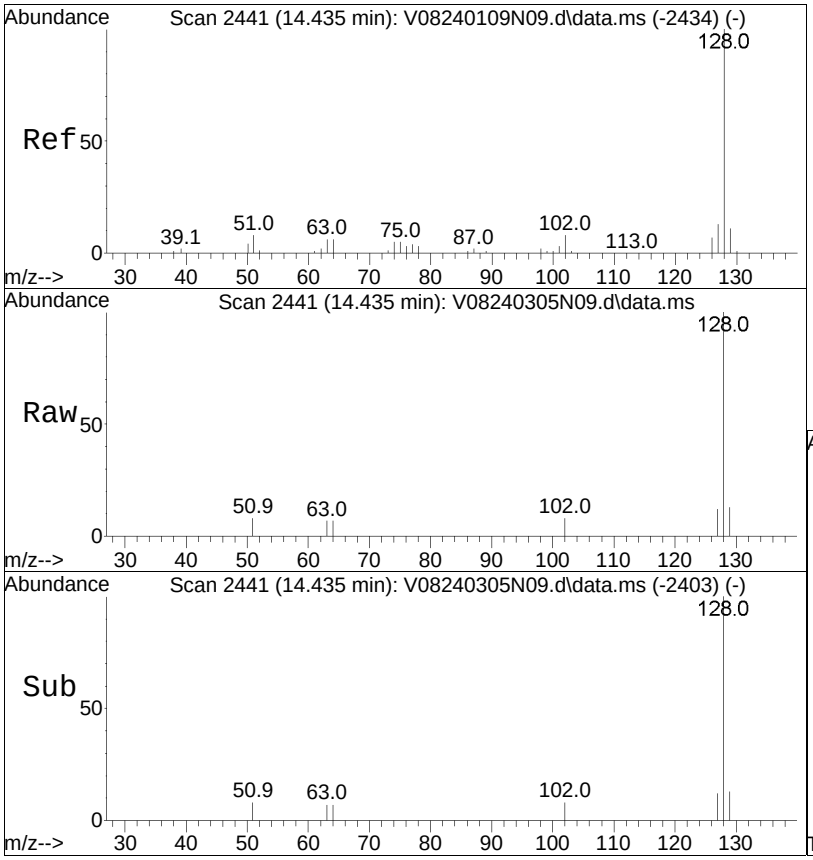


#105
1,2,4,5-Tetramethylbenzene
Concen: 0.09 ug/L
RT: 13.324 min Scan# 2229
Delta R.T. -0.005 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:119 Resp: 1123

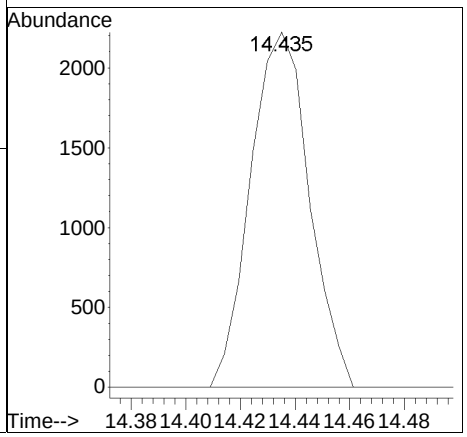
Ion	Ratio	Lower	Upper
119	100		
134	38.8	30.5	63.3
91	0.0	12.4	25.7#





#110
Naphthalene
Concen: 0.42 ug/L
RT: 14.435 min Scan# 2441
Delta R.T. -0.000 min
Lab File: V08240305N09.d
Acq: 5 Mar 2024 8:27 pm

Tgt Ion:128 Resp: 3329



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N09.d	Operator	: VOA108:RAW
Date Inj'd	: 3/5/2024 8:27 pm	Instrument	: VOA 108
Sample	: L2411464-02,31,10,10,,A	Quant Date	: 3/6/2024 6:24 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N10.d
Acq On : 5 Mar 2024 8:49 pm
Operator : VOA108:RAW
Sample : L2411464-01,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 06:24:30 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	136316	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 88.40%			
59) Chlorobenzene-d5	9.617	117	103805	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 94.11%			
79) 1,4-Dichlorobenzene-d4	12.301	152	47561	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 94.40%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.276	113	37617	10.500	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.00%			
43) 1,2-Dichloroethane-d4	5.805	65	41191	10.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.00%			
60) Toluene-d8	7.782	98	133028	10.230	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.30%			
83) 4-Bromofluorobenzene	11.101	95	44521	10.388	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.840	96	2360	0.717	ug/L #	70
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	5.097	83	2364	0.445	ug/L #	90

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N10.d
Acq On : 5 Mar 2024 8:49 pm
Operator : VOA108:RAW
Sample : L2411464-01,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 06:24:30 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.266	95	1543	0.516	ug/L	88
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.280	166	24288	7.941	ug/L	93
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N10.d
Acq On : 5 Mar 2024 8:49 pm
Operator : VOA108:RAW
Sample : L2411464-01,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 06:24:30 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108) Hexachlorobutadiene	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

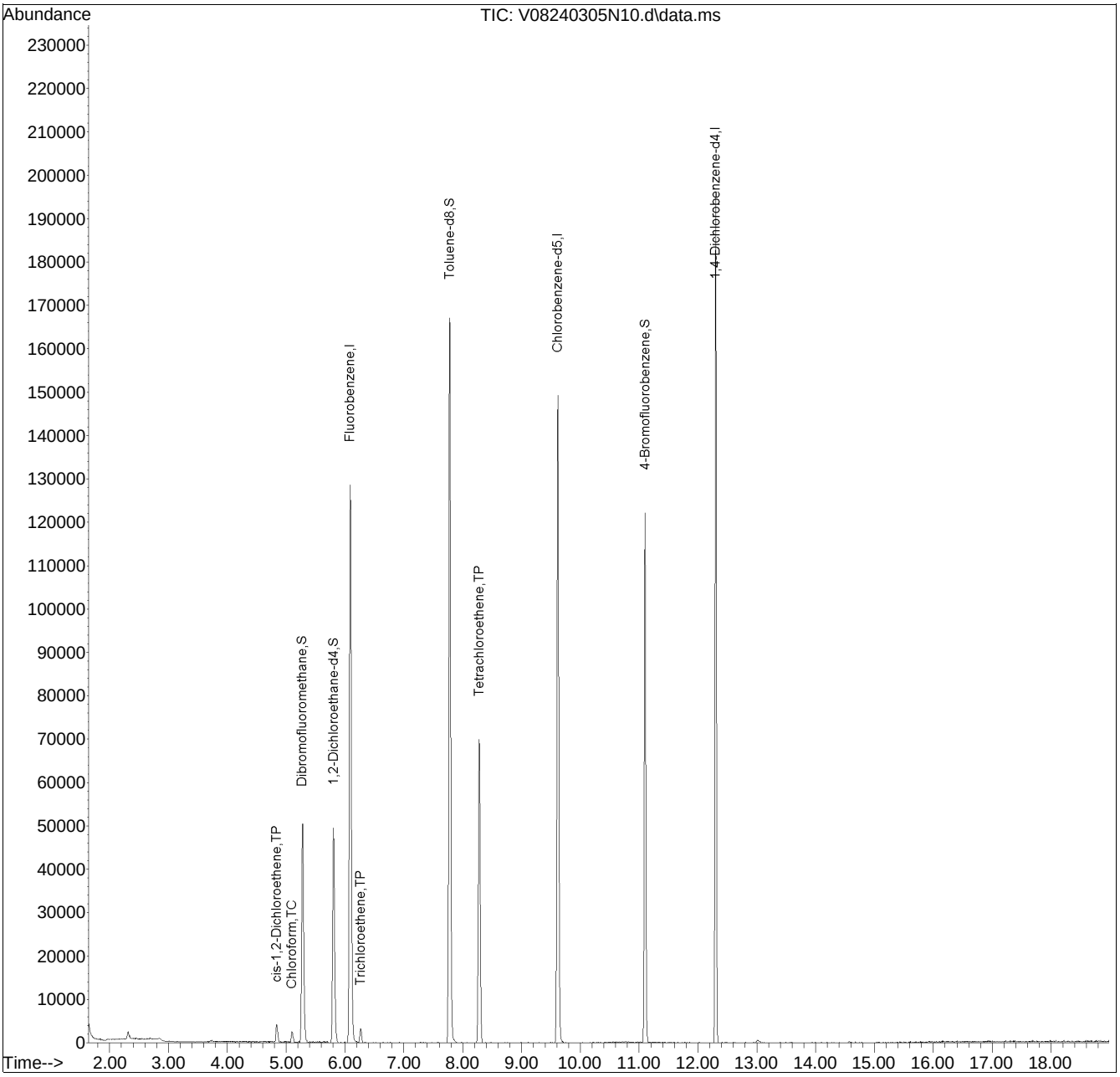
(#) = qualifier out of range (m) = manual integration (+) = signals summed

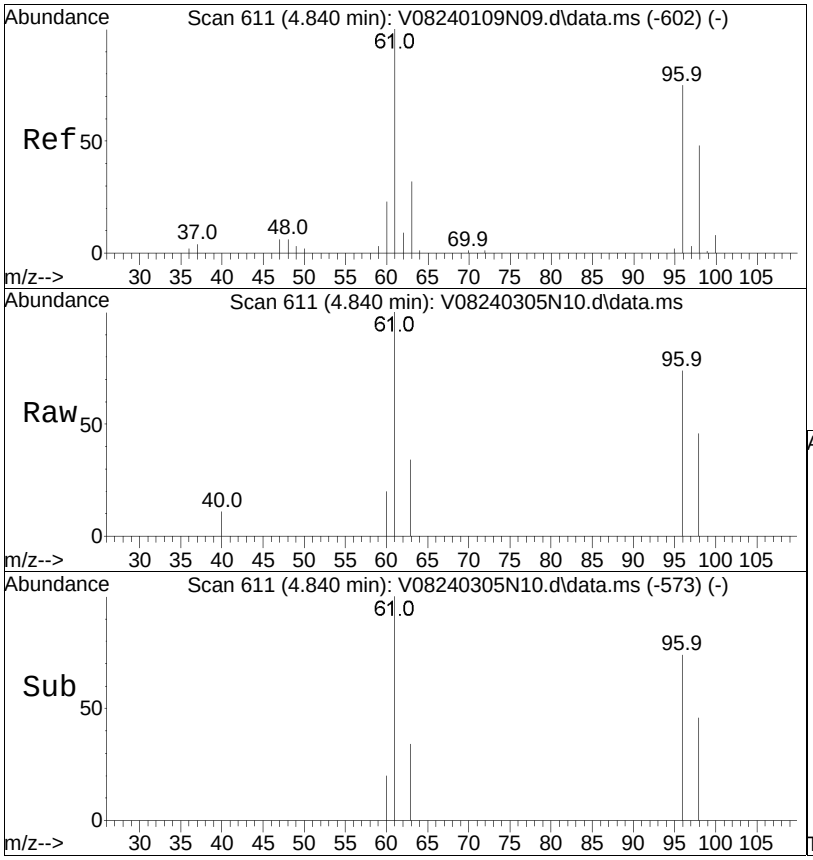
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N10.d
Acq On : 5 Mar 2024 8:49 pm
Operator : VOA108:RAW
Sample : L2411464-01,31,10,10,,A
Misc : WG1893240,ICAL20750
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 06:24:30 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

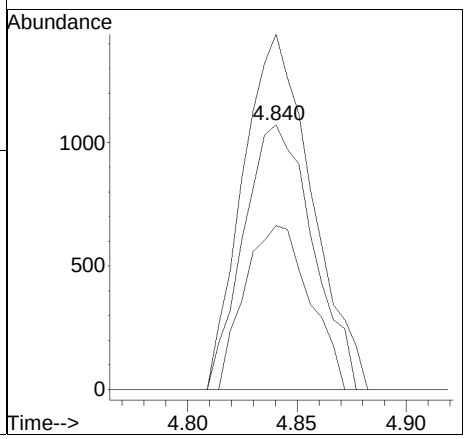


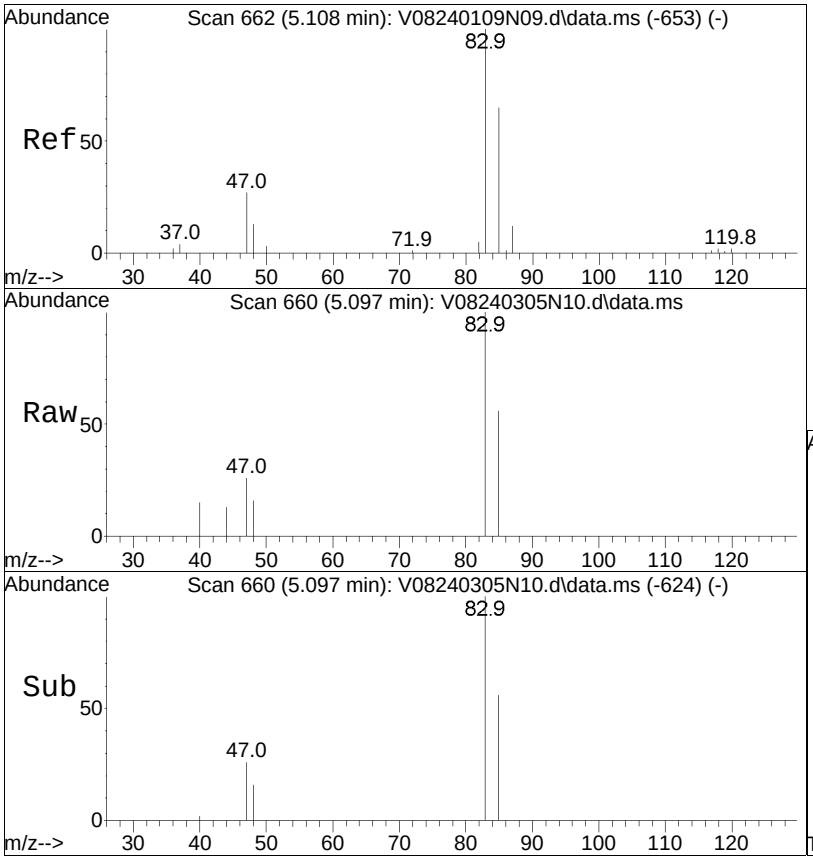


#28
cis-1,2-Dichloroethene
Concen: 0.72 ug/L
RT: 4.840 min Scan# 611
Delta R.T. -0.000 min
Lab File: V08240305N10.d
Acq: 5 Mar 2024 8:49 pm

Tgt Ion: 96 Resp: 2360

Ion	Ratio	Lower	Upper
96	100		
61	134.1	149.4	224.2#
98	58.2	53.4	80.2

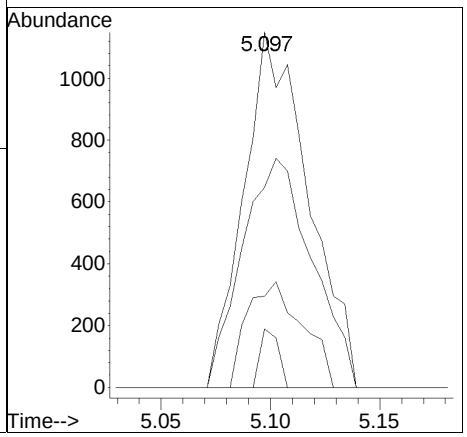


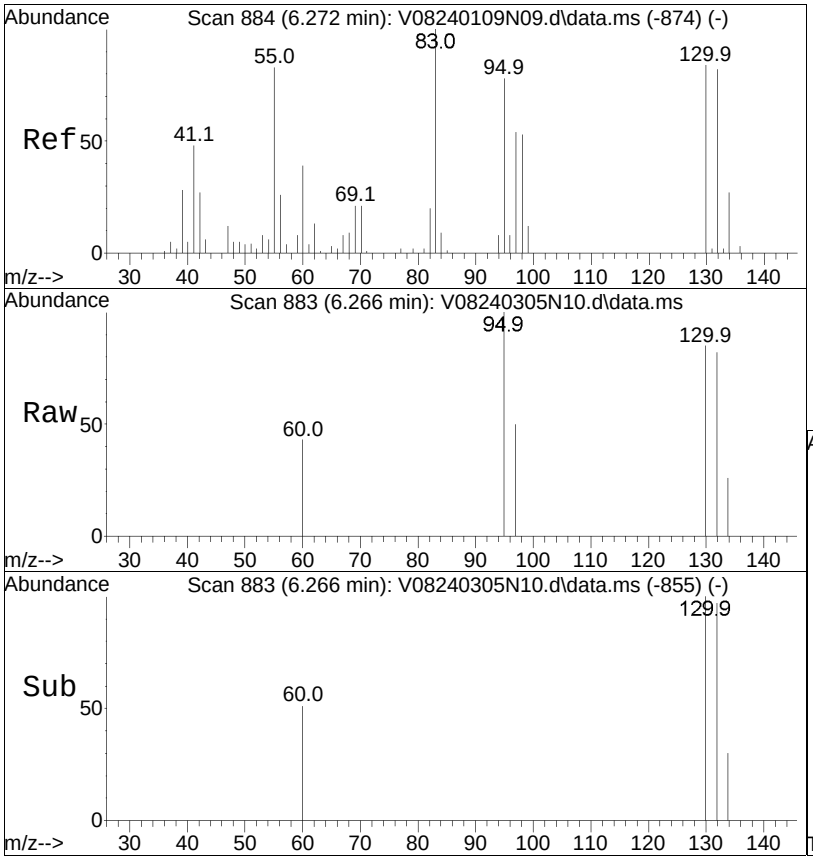


#32
Chloroform
Concen: 0.45 ug/L
RT: 5.097 min Scan# 660
Delta R.T. -0.011 min
Lab File: V08240305N10.d
Acq: 5 Mar 2024 8:49 pm

Tgt Ion: 83 Resp: 2364

Ion	Ratio	Lower	Upper
83	100		
85	69.6	41.5	86.1
47	25.4	19.0	39.4
48	4.7	9.9	20.5#

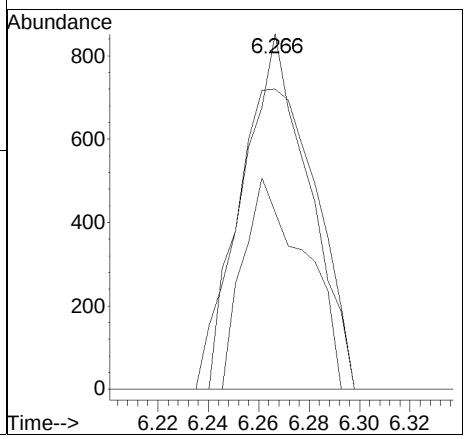


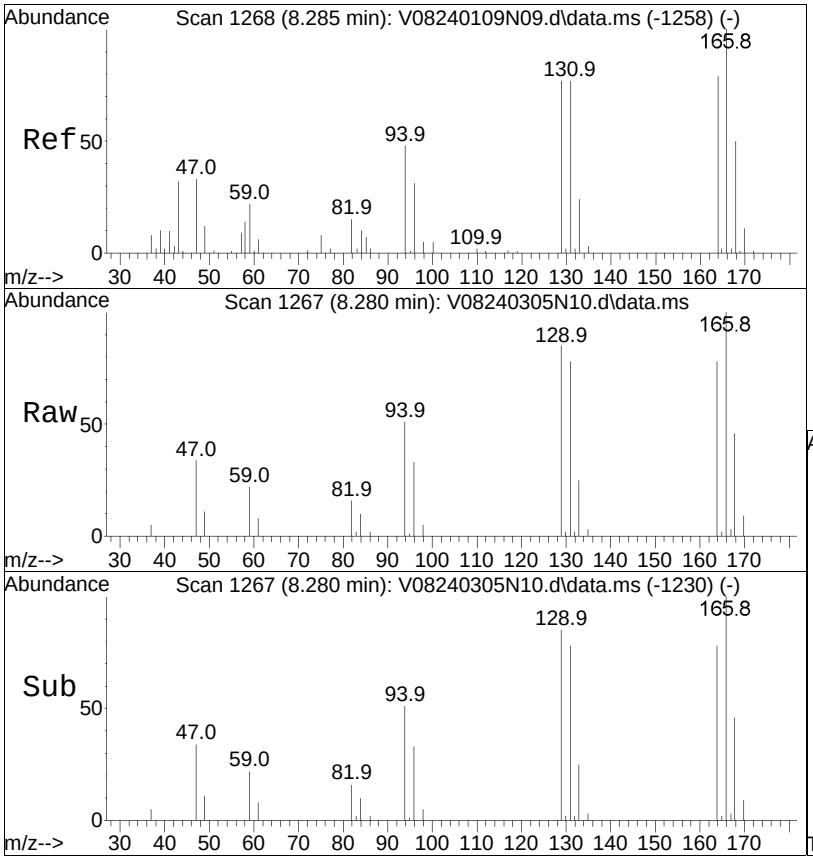


#48
Trichloroethene
Concen: 0.52 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N10.d
Acq: 5 Mar 2024 8:49 pm

Tgt Ion: 95 Resp: 1543

Ion	Ratio	Lower	Upper
95	100		
97	56.3	55.5	83.3
130	105.2	76.6	115.0

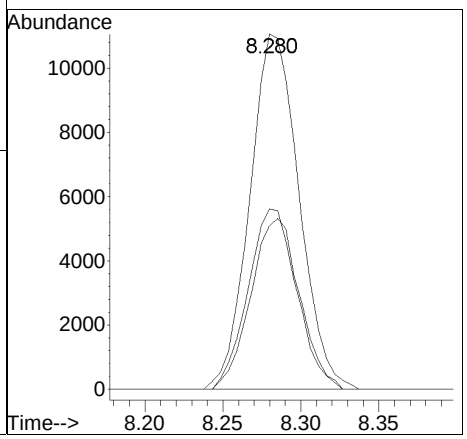




#63
Tetrachloroethene
Concen: 7.94 ug/L
RT: 8.280 min Scan# 1267
Delta R.T. -0.005 min
Lab File: V08240305N10.d
Acq: 5 Mar 2024 8:49 pm

Tgt Ion:166 Resp: 24288

Ion	Ratio	Lower	Upper
166	100		
168	47.6	28.2	68.2
94	50.0	38.4	78.4



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N10.d	Operator	: VOA108:RAW
Date Inj'd	: 3/5/2024 8:49 pm	Instrument	: VOA 108
Sample	: L2411464-01,31,10,10,,A	Quant Date	: 3/6/2024 6:24 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2411464**
Project Name	**: PARKCHESTER CROSSING**	**Project Number**	**: 2530.0001Y000**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL20750**
Calibration dates	**: 01/09/24 17:17 01/09/24 20:58**		

Calibration Files

L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d

L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.155	0.184	0.198	0.196	0.202	0.199	0.205	0.191	9.10
3)	TP	Chloromethane		0.230	0.251	0.256	0.255	0.256	0.255	0.259	0.252	3.83
4)	TC	Vinyl chloride	0.232	0.233	0.271	0.283	0.281	0.285	0.282	0.285	0.269	8.63
5)	TP	Bromomethane		0.168	0.173	0.171	0.177	0.181	0.182	0.187	0.177	3.82
6)	TP	Chloroethane		0.144	0.172	0.176	0.175	0.174	0.175	0.175	0.170	6.83
7)	TP	Trichlorofluor		0.261	0.322	0.336	0.331	0.340	0.340	0.347	0.325	9.00
8)	TP	Ethyl ether		0.088	0.095	0.100	0.104	0.105	0.107	0.108	0.101	7.24
10)	TC	1,1-Dichloroet		0.145	0.174	0.183	0.184	0.190	0.194	0.201	0.181	10.06
11)	TP	Carbon disulfide		0.560	0.609	0.619	0.623	0.640	0.652	0.671	0.625	5.72
12)	TP	Freon-113		0.142	0.186	0.194	0.193	0.203	0.205	0.212	0.191	12.14
13)	TP	Iodomethane		0.295	0.309	0.318	0.326	0.324	0.331	0.330	0.319	4.05
14)	TP	Acrolein			0.009	0.011	0.011	0.011	0.012	0.014	0.011	14.32
15)	TP	Methylene chlo		0.220	0.211	0.209	0.211	0.213	0.218	0.222	0.215	2.36
17)	TP	Acetone			0.046	0.034	0.032	0.032	0.033	0.034	0.035	15.41
18)	TP	trans-1,2-Dich		0.179	0.204	0.209	0.213	0.215	0.221	0.226	0.210	7.36
19)	TP	Methyl acetate			0.099	0.085	0.085	0.084	0.087	0.089	0.088	6.31
20)	TP	Methyl tert butyl ether		0.419	0.436	0.453	0.488	0.504	0.518	0.526	0.478	8.77
21)	TP	tert-Butyl alc			0.007	0.008	0.008	0.008	0.009	0.009	0.008#	7.38
22)	TP	Diisopropyl ether		0.646	0.656	0.674	0.703	0.720	0.734	0.738	0.696	5.37
23)	TP	1,1-Dichloroet		0.362	0.406	0.410	0.415	0.418	0.425	0.430	0.409	5.50
24)	TP	Halothane		0.128	0.155	0.168	0.169	0.175	0.178	0.184	0.165	11.45
25)	TP	Acrylonitrile			0.037	0.040	0.041	0.042	0.043	0.044	0.041	6.00
26)	TP	Ethyl tert-but		0.573	0.600	0.616	0.656	0.683	0.703	0.713	0.649	8.29
27)	TP	Vinyl acetate			0.337	0.413	0.404	0.417	0.424	0.430	0.404	8.47
28)	TP	cis-1,2-Dichlo		0.228	0.236	0.238	0.242	0.243	0.249	0.254	0.241	3.62
29)	TP	2,2-Dichloropr		0.309	0.321	0.333	0.331	0.342	0.342	0.346	0.332	3.99
30)	TP	Bromochloromet		0.089	0.111	0.111	0.116	0.118	0.121	0.122	0.113	9.87
31)	TP	Cyclohexane		0.310	0.342	0.367	0.368	0.386	0.385	0.391	0.364	7.94
32)	TC	Chloroform		0.367	0.381	0.390	0.394	0.392	0.399	0.403	0.389	3.11
33)	TP	Ethyl acetate			0.129	0.132	0.137	0.140	0.141	0.142	0.137	3.98
34)	TP	Carbon tetrachloride	0.229	0.257	0.309	0.313	0.318	0.329	0.334	0.343	0.304	13.12
35)	TP	Tetrahydrofuran			0.034	0.034	0.035	0.036	0.036	0.037	0.035	3.30
36)	S	Dibromofluoromethane	0.265	0.263	0.267	0.264	0.263	0.258	0.260	0.263	0.263	1.02
37)	TP	1,1,1-Trichlor		0.290	0.331	0.345	0.348	0.353	0.357	0.364	0.341	7.25
39)	TP	2-Butanone			0.055	0.052	0.056	0.054	0.055	0.055	0.055	2.36

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2411464**
Project Name	**: PARKCHESTER CROSSING**	**Project Number**	**: 2530.0001Y000**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL20750**
Calibration dates	**: 01/09/24 17:17 01/09/24 20:58**		

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40)	TP	1,1-Dichloropr		0.233	0.270	0.288	0.297	0.305	0.308	0.314	0.288	9.84
41)	TP	Benzene	0.829	0.770	0.808	0.819	0.852	0.862	0.878	0.890	0.839	4.75
42)	TP	Tertiary-Amyl Methyl Ether		0.504	0.495	0.515	0.547	0.566	0.583	0.592	0.543	7.19
43)	S	1,2-Dichloroethane-d4	0.274	0.273	0.276	0.288	0.278	0.281	0.279	0.288	0.280	2.06
44)	TP	1,2-Dichloroet		0.273	0.268	0.271	0.280	0.282	0.286	0.289	0.278	2.85
47)	TP	Methyl cyclohe		0.278	0.320	0.344	0.354	0.377	0.384	0.399	0.351	11.84
48)	TP	Trichloroethene	0.176	0.187	0.209	0.218	0.231	0.237	0.244	0.253	0.219	12.41
50)	TP	Dibromomethane		0.106	0.118	0.118	0.124	0.126	0.130	0.132	0.122	7.19
51)	TC	1,2-Dichloropr		0.208	0.211	0.221	0.231	0.235	0.239	0.243	0.227	6.11
54)	TP	Bromodichlorom		0.258	0.280	0.291	0.306	0.312	0.317	0.323	0.298#	7.80
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	12.83
58)	TP	cis-1,3-Dichlo		0.308	0.315	0.331	0.356	0.366	0.372	0.380	0.347	8.38
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.287	1.281	1.278	1.265	1.253	1.244	1.216	1.199	1.253	2.54
61)	TC	Toluene		0.619	0.667	0.687	0.700	0.714	0.716	0.721	0.689	5.27
62)	TP	4-Methyl-2-pen			0.062	0.064	0.067	0.070	0.070	0.070	0.067	5.18
63)	TP	Tetrachloroethene		0.255	0.282	0.291	0.298	0.308	0.310	0.318	0.295	7.25
65)	TP	trans-1,3-Dich		0.355	0.350	0.367	0.390	0.401	0.401	0.401	0.381	6.01
67)	TP	Ethyl methacry		0.241	0.237	0.244	0.256	0.264	0.264	0.264	0.253	4.75
68)	TP	1,1,2-Trichlor		0.160	0.163	0.170	0.176	0.182	0.181	0.183	0.174#	5.33
69)	TP	Chlorodibromom		0.238	0.249	0.265	0.285	0.297	0.299	0.303	0.276	9.42
70)	TP	1,3-Dichloropr		0.347	0.347	0.353	0.368	0.373	0.371	0.370	0.361	3.26
71)	TP	1,2-Dibromoethane		0.200	0.204	0.204	0.212	0.216	0.217	0.218	0.210	3.54
72)	TP	2-Hexanone		0.120	0.112	0.109	0.114	0.117	0.116	0.114	0.115	3.18
73)	TP	Chlorobenzene		0.766	0.783	0.792	0.813	0.829	0.831	0.837	0.807	3.41
74)	TC	Ethylbenzene		1.238	1.300	1.324	1.353	1.387	1.374	1.383	1.337	4.05
75)	TP	1,1,1,2-Tetrac		0.261	0.278	0.287	0.302	0.314	0.314	0.318	0.296	7.32
76)	TP	p/m Xylene		0.478	0.508	0.527	0.541	0.554	0.551	0.555	0.531	5.42
77)	TP	o Xylene		0.484	0.508	0.520	0.533	0.547	0.542	0.544	0.525	4.41
78)	TP	Styrene		0.787	0.830	0.855	0.899	0.917	0.903	0.894	0.869	5.45
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.268	0.293	0.295	0.313	0.328	0.329	0.337	0.309	8.05
82)	TP	Isopropylbenzene		2.408	2.599	2.586	2.601	2.644	2.609	2.646	2.584	3.14
83)	S	4-Bromofluorobenzene	0.958	0.921	0.920	0.899	0.896	0.879	0.866	0.870	0.901	3.44
84)	TP	Bromobenzene		0.642	0.675	0.642	0.646	0.656	0.648	0.667	0.654	1.95
85)	TP	n-Propylbenzene		2.860	3.065	3.036	3.055	3.112	3.036	3.055	3.031	2.63

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2411464**
Project Name	**: PARKCHESTER CROSSING**	**Project Number**	**: 2530.0001Y000**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL20750**
Calibration dates	**: 01/09/24 17:17 01/09/24 20:58**		

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86) TP	1,4-Dichlorobu		0.727	0.683	0.657	0.660	0.664	0.653	0.658	0.672	3.91
87) TP	1,1,2,2-Tetrac		0.482	0.481	0.461	0.463	0.461	0.453	0.458	0.466	2.42
88) TP	4-Ethyltoluene		2.383	2.639	2.606	2.633	2.670	2.623	2.638	2.599	3.73
89) TP	2-Chlorotoluene		1.810	1.926	1.797	1.868	1.822	1.797	1.835	1.837	2.53
90) TP	1,3,5-Trimethy		2.040	2.234	2.237	2.297	2.315	2.267	2.282	2.239	4.13
91) TP	1,2,3-Trichlor		0.373	0.404	0.374	0.377	0.377	0.371	0.379	0.379	2.92
92) TP	trans-1,4-Dich		0.094	0.141	0.138	0.137	0.140	0.137	0.140	0.132	12.76
93) TP	4-Chlorotoluene		1.880	1.956	1.906	1.909	1.906	1.871	1.895	1.903	1.42
94) TP	tert-Butylbenzene		1.810	1.971	1.951	1.951	1.976	1.936	1.950	1.935	2.93
97) TP	1,2,4-Trimethy		2.053	2.161	2.193	2.254	2.293	2.228	2.245	2.204	3.58
98) TP	sec-Butylbenzene		2.688	2.845	2.833	2.853	2.893	2.794	2.796	2.815	2.32
99) TP	p-Isopropyltol		2.253	2.499	2.527	2.553	2.599	2.511	2.522	2.495	4.48
100) TP	1,3-Dichlorobe		1.341	1.322	1.287	1.305	1.305	1.282	1.297	1.306	1.54
101) TP	1,4-Dichlorobe		1.404	1.338	1.284	1.304	1.313	1.286	1.297	1.318	3.20
102) TP	p-Diethylbenzene		1.386	1.483	1.506	1.555	1.588	1.551	1.585	1.522	4.68
103) TP	n-Butylbenzene		1.894	2.076	2.116	2.139	2.156	2.087	2.099	2.081	4.20
104) TP	1,2-Dichlorobe		1.236	1.251	1.201	1.210	1.208	1.180	1.202	1.213	1.96
105) TP	1,2,4,5-Tetram		2.307	2.453	2.443	2.505	2.531	2.487	2.510	2.462	3.06
106) TP	1,2-Dibromo-3-		0.045	0.075	0.074	0.076	0.077	0.077	0.078	0.072	16.69
107) TP	1,3,5-Trichlor		0.915	0.975	0.952	0.964	0.965	0.952	0.968	0.956	2.07
108) TP	Hexachlorobuta		0.353	0.404	0.394	0.394	0.394	0.387	0.393	0.388	4.22
109) TP	1,2,4-Trichlor		0.850	0.834	0.821	0.833	0.838	0.835	0.858	0.838	1.47
110) TP	Naphthalene		1.617	1.651	1.615	1.642	1.660	1.633	1.665	1.640	1.21
111) TP	1,2,3-Trichlor		0.733	0.758	0.729	0.742	0.750	0.743	0.757	0.744	1.51

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240109NICAL\
Method File : V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	ISTD									
2)	TP	Dichlorodifluo...		0.155	0.184	0.198	0.196	0.202	0.199	0.205	0.191	9.10
3)	TP	Chloromethane		0.230	0.251	0.256	0.255	0.256	0.255	0.259	0.252	3.83
4)	TC	Vinyl chloride	0.232	0.233	0.271	0.283	0.281	0.285	0.282	0.285	0.269	8.63
5)	TP	Bromomethane		0.168	0.173	0.171	0.177	0.181	0.182	0.187	0.177	3.82
6)	TP	Chloroethane		0.144	0.172	0.176	0.175	0.174	0.175	0.175	0.170	6.83
7)	TP	Trichlorofluor...		0.261	0.322	0.336	0.331	0.340	0.340	0.347	0.325	9.00
8)	TP	Ethyl ether		0.088	0.095	0.100	0.104	0.105	0.107	0.108	0.101	7.24
10)	TC	1,1-Dichloroet...		0.145	0.174	0.183	0.184	0.190	0.194	0.201	0.181	10.06
11)	TP	Carbon disulfide		0.560	0.609	0.619	0.623	0.640	0.652	0.671	0.625	5.72
12)	TP	Freon-113		0.142	0.186	0.194	0.193	0.203	0.205	0.212	0.191	12.14
13)	TP	Iodomethane		0.295	0.309	0.318	0.326	0.324	0.331	0.330	0.319	4.05
14)	TP	Acrolein			0.009	0.011	0.011	0.011	0.012	0.014	0.011	14.32
15)	TP	Methylene chlo...		0.220	0.211	0.209	0.211	0.213	0.218	0.222	0.215	2.36
17)	TP	Acetone			0.046	0.034	0.032	0.032	0.033	0.034	0.035	15.41
18)	TP	trans-1,2-Dich...		0.179	0.204	0.209	0.213	0.215	0.221	0.226	0.210	7.36
19)	TP	Methyl acetate			0.099	0.085	0.085	0.084	0.087	0.089	0.088	6.31
20)	TP	Methyl tert-bu...		0.419	0.436	0.453	0.488	0.504	0.518	0.526	0.478	8.77
21)	TP	tert-Butyl alc...			0.007	0.008	0.008	0.008	0.009	0.009	0.008#	7.38
22)	TP	Diisopropyl ether		0.646	0.656	0.674	0.703	0.720	0.734	0.738	0.696	5.37
23)	TP	1,1-Dichloroet...		0.362	0.406	0.410	0.415	0.418	0.425	0.430	0.409	5.50
24)	TP	Halothane		0.128	0.155	0.168	0.169	0.175	0.178	0.184	0.165	11.45
25)	TP	Acrylonitrile			0.037	0.040	0.041	0.042	0.043	0.044	0.041	6.00
26)	TP	Ethyl tert-but...		0.573	0.600	0.616	0.656	0.683	0.703	0.713	0.649	8.29
27)	TP	Vinyl acetate			0.337	0.413	0.404	0.417	0.424	0.430	0.404	8.47
28)	TP	cis-1,2-Dichlo...		0.228	0.236	0.238	0.242	0.243	0.249	0.254	0.241	3.62
29)	TP	2,2-Dichloropr...		0.309	0.321	0.333	0.331	0.342	0.342	0.346	0.332	3.99
30)	TP	Bromochloromet...		0.089	0.111	0.111	0.116	0.118	0.121	0.122	0.113	9.87
31)	TP	Cyclohexane		0.310	0.342	0.367	0.368	0.386	0.385	0.391	0.364	7.94
32)	TC	Chloroform		0.367	0.381	0.390	0.394	0.392	0.399	0.403	0.389	3.11
33)	TP	Ethyl acetate			0.129	0.132	0.137	0.140	0.141	0.142	0.137	3.98

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240109NICAL\
Method File : V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.229	0.257	0.309	0.313	0.318	0.329	0.334	0.343	0.304	13.12
35)	TP	Tetrahydrofuran			0.034	0.034	0.035	0.036	0.036	0.037	0.035	3.30
36)	S	Dibromofluorom...	0.265	0.263	0.267	0.264	0.263	0.258	0.260	0.263	0.263	1.02
37)	TP	1,1,1-Trichlor...		0.290	0.331	0.345	0.348	0.353	0.357	0.364	0.341	7.25
39)	TP	2-Butanone			0.055	0.052	0.056	0.054	0.055	0.055	0.055	2.36
40)	TP	1,1-Dichloropr...		0.233	0.270	0.288	0.297	0.305	0.308	0.314	0.288	9.84
41)	TP	Benzene	0.829	0.770	0.808	0.819	0.852	0.862	0.878	0.890	0.839	4.75
42)	TP	tert-Amyl meth...		0.504	0.495	0.515	0.547	0.566	0.583	0.592	0.543	7.19
43)	S	1,2-Dichloroet...	0.274	0.273	0.276	0.288	0.278	0.281	0.279	0.288	0.280	2.06
44)	TP	1,2-Dichloroet...		0.273	0.268	0.271	0.280	0.282	0.286	0.289	0.278	2.85
47)	TP	Methyl cyclohe...		0.278	0.320	0.344	0.354	0.377	0.384	0.399	0.351	11.84
48)	TP	Trichloroethene	0.176	0.187	0.209	0.218	0.231	0.237	0.244	0.253	0.219	12.41
50)	TP	Dibromomethane		0.106	0.118	0.118	0.124	0.126	0.130	0.132	0.122	7.19
51)	TC	1,2-Dichloropr...		0.208	0.211	0.221	0.231	0.235	0.239	0.243	0.227	6.11
54)	TP	Bromodichlorom...		0.258	0.280	0.291	0.306	0.312	0.317	0.323	0.298#	7.80
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	12.83
58)	TP	cis-1,3-Dichlo...		0.308	0.315	0.331	0.356	0.366	0.372	0.380	0.347	8.38
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.287	1.281	1.278	1.265	1.253	1.244	1.216	1.199	1.253	2.54
61)	TC	Toluene		0.619	0.667	0.687	0.700	0.714	0.716	0.721	0.689	5.27
62)	TP	4-Methyl-2-pen...			0.062	0.064	0.067	0.070	0.070	0.070	0.067	5.18
63)	TP	Tetrachloroethene		0.255	0.282	0.291	0.298	0.308	0.310	0.318	0.295	7.25
65)	TP	trans-1,3-Dich...		0.355	0.350	0.367	0.390	0.401	0.401	0.401	0.381	6.01
67)	TP	Ethyl methacry...		0.241	0.237	0.244	0.256	0.264	0.264	0.264	0.253	4.75
68)	TP	1,1,2-Trichlor...		0.160	0.163	0.170	0.176	0.182	0.181	0.183	0.174#	5.33
69)	TP	Chlorodibromom...		0.238	0.249	0.265	0.285	0.297	0.299	0.303	0.276	9.42
70)	TP	1,3-Dichloropr...		0.347	0.347	0.353	0.368	0.373	0.371	0.370	0.361	3.26
71)	TP	1,2-Dibromoethane		0.200	0.204	0.204	0.212	0.216	0.217	0.218	0.210	3.54
72)	TP	2-Hexanone		0.120	0.112	0.109	0.114	0.117	0.116	0.114	0.115	3.18
73)	TP	Chlorobenzene		0.766	0.783	0.792	0.813	0.829	0.831	0.837	0.807	3.41
74)	TC	Ethylbenzene		1.238	1.300	1.324	1.353	1.387	1.374	1.383	1.337	4.05

Method Path : K:\VOA108\2024\240109NICAL\
Method File : V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

	Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
75)	TP	1,1,1,2-Tetrac...		0.261	0.278	0.287	0.302	0.314	0.314	0.318	0.296	7.32
76)	TP	p/m Xylene		0.478	0.508	0.527	0.541	0.554	0.551	0.555	0.531	5.42
77)	TP	o Xylene		0.484	0.508	0.520	0.533	0.547	0.542	0.544	0.525	4.41
78)	TP	Styrene		0.787	0.830	0.855	0.899	0.917	0.903	0.894	0.869	5.45
79)	I	1,4-Dichlorobenzene-d4		----------ISTD----------								
80)	TP	Bromoform		0.268	0.293	0.295	0.313	0.328	0.329	0.337	0.309	8.05
82)	TP	Isopropylbenzene		2.408	2.599	2.586	2.601	2.644	2.609	2.646	2.584	3.14
83)	S	4-Bromofluorob...	0.958	0.921	0.920	0.899	0.896	0.879	0.866	0.870	0.901	3.44
84)	TP	Bromobenzene		0.642	0.675	0.642	0.646	0.656	0.648	0.667	0.654	1.95
85)	TP	n-Propylbenzene		2.860	3.065	3.036	3.055	3.112	3.036	3.055	3.031	2.63
86)	TP	1,4-Dichlorobu...		0.727	0.683	0.657	0.660	0.664	0.653	0.658	0.672	3.91
87)	TP	1,1,2,2-Tetrac...		0.482	0.481	0.461	0.463	0.461	0.453	0.458	0.466	2.42
88)	TP	4-Ethyltoluene		2.383	2.639	2.606	2.633	2.670	2.623	2.638	2.599	3.73
89)	TP	2-Chlorotoluene		1.810	1.926	1.797	1.868	1.822	1.797	1.835	1.837	2.53
90)	TP	1,3,5-Trimethy...		2.040	2.234	2.237	2.297	2.315	2.267	2.282	2.239	4.13
91)	TP	1,2,3-Trichlor...		0.373	0.404	0.374	0.377	0.377	0.371	0.379	0.379	2.92
92)	TP	trans-1,4-Dich...		0.094	0.141	0.138	0.137	0.140	0.137	0.140	0.132	12.76
93)	TP	4-Chlorotoluene		1.880	1.956	1.906	1.909	1.906	1.871	1.895	1.903	1.42
94)	TP	tert-Butylbenzene		1.810	1.971	1.951	1.951	1.976	1.936	1.950	1.935	2.93
97)	TP	1,2,4-Trimethy...		2.053	2.161	2.193	2.254	2.293	2.228	2.245	2.204	3.58
98)	TP	sec-Butylbenzene		2.688	2.845	2.833	2.853	2.893	2.794	2.796	2.815	2.32
99)	TP	p-Isopropyltol...		2.253	2.499	2.527	2.553	2.599	2.511	2.522	2.495	4.48
100)	TP	1,3-Dichlorobe...		1.341	1.322	1.287	1.305	1.305	1.282	1.297	1.306	1.54
101)	TP	1,4-Dichlorobe...		1.404	1.338	1.284	1.304	1.313	1.286	1.297	1.318	3.20
102)	TP	p-Diethylbenzene		1.386	1.483	1.506	1.555	1.588	1.551	1.585	1.522	4.68
103)	TP	n-Butylbenzene		1.894	2.076	2.116	2.139	2.156	2.087	2.099	2.081	4.20
104)	TP	1,2-Dichlorobe...		1.236	1.251	1.201	1.210	1.208	1.180	1.202	1.213	1.96
105)	TP	1,2,4,5-Tetram...		2.307	2.453	2.443	2.505	2.531	2.487	2.510	2.462	3.06
106)	TP	1,2-Dibromo-3-...		0.045	0.075	0.074	0.076	0.077	0.077	0.078	0.072	16.69
107)	TP	1,3,5-Trichlor...		0.915	0.975	0.952	0.964	0.965	0.952	0.968	0.956	2.07
108)	TP	Hexachlorobuta...		0.353	0.404	0.394	0.394	0.394	0.387	0.393	0.388	4.22

Method Path : K:\VOA108\2024\240109NICAL\
Method File : V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

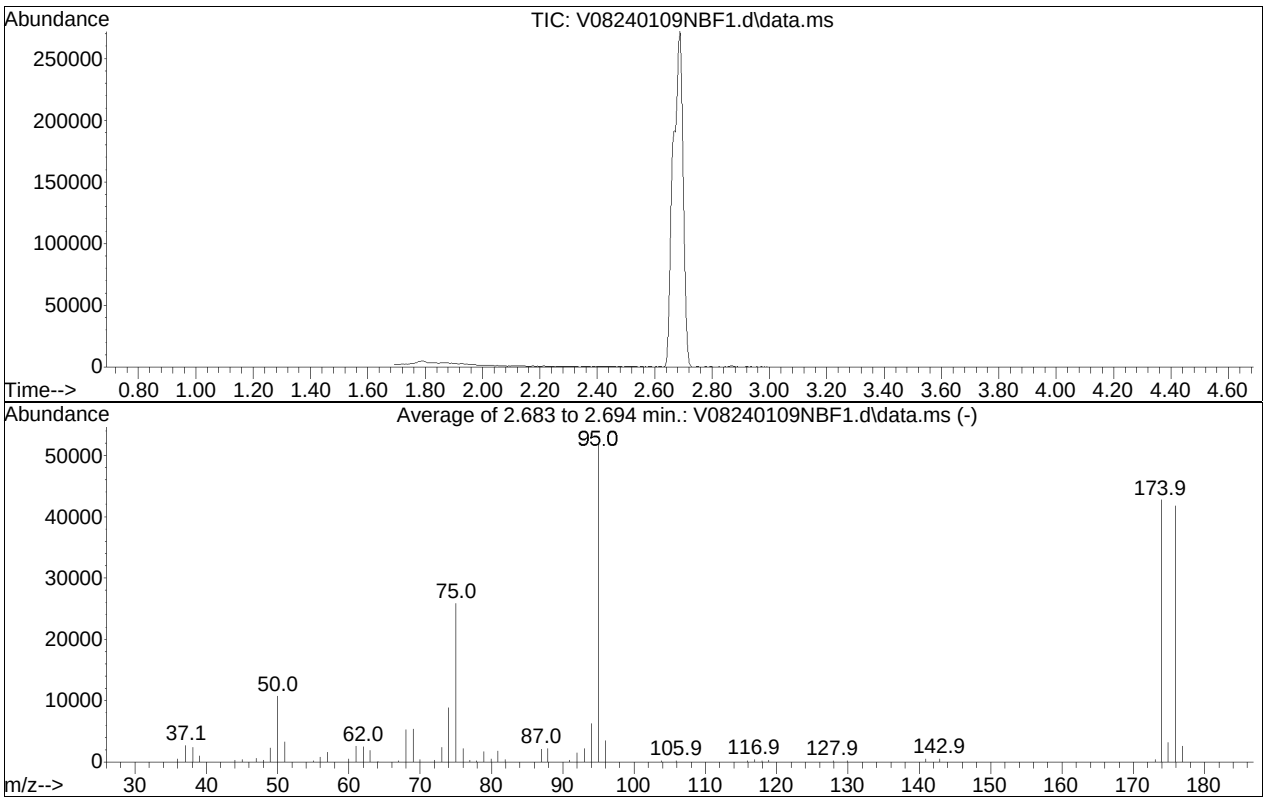
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
109)	TP 1,2,4-Trichlor...	0.850	0.834	0.821	0.833	0.838	0.835	0.858	0.838		1.47
110)	TP Naphthalene	1.617	1.651	1.615	1.642	1.660	1.633	1.665	1.640		1.21
111)	TP 1,2,3-Trichlor...	0.733	0.758	0.729	0.742	0.750	0.743	0.757	0.744		1.51

(#) = Out of Range

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109NBF1.d
Acq On : 9 Jan 2024 4:13 pm
Operator : VOA108:PID
Sample : WG1872847-1
Misc : WG1872847
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024



AutoFind: Scans 190, 191, 192; Background Corrected with Scan 178

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	10743	PASS
75	95	30	60	49.7	25867	PASS
95	95	100	100	100.0	52061	PASS
96	95	5	9	6.6	3443	PASS
173	174	0.00	2	1.0	445	PASS
174	95	50	100	82.1	42739	PASS
175	174	5	9	7.6	3229	PASS
176	174	95	101	97.7	41773	PASS
177	176	5	9	6.3	2645	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N03.d
Acq On : 9 Jan 2024 5:17 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1872847,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 10 11:42:19 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	185274	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 98.89%			
59) Chlorobenzene-d5	9.622	117	141466	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 97.56%			
79) 1,4-Dichlorobenzene-d4	12.306	152	67765	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 90.17%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	49070	10.078	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.78%			
43) 1,2-Dichloroethane-d4	5.810	65	50785	9.797	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.97%			
60) Toluene-d8	7.782	98	182020	10.271	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.71%			
83) 4-Bromofluorobenzene	11.101	95	64885	10.626	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.26%			
Target Compounds						Qvalue
4) Vinyl chloride	1.967	62	815	0.164	ug/L #	60
34) Carbon tetrachloride	5.239	117	807	0.143	ug/L #	66
41) Benzene	5.679	78	2917	0.188	ug/L #	71
48) Trichloroethene	6.266	95	621	0.153	ug/L	95

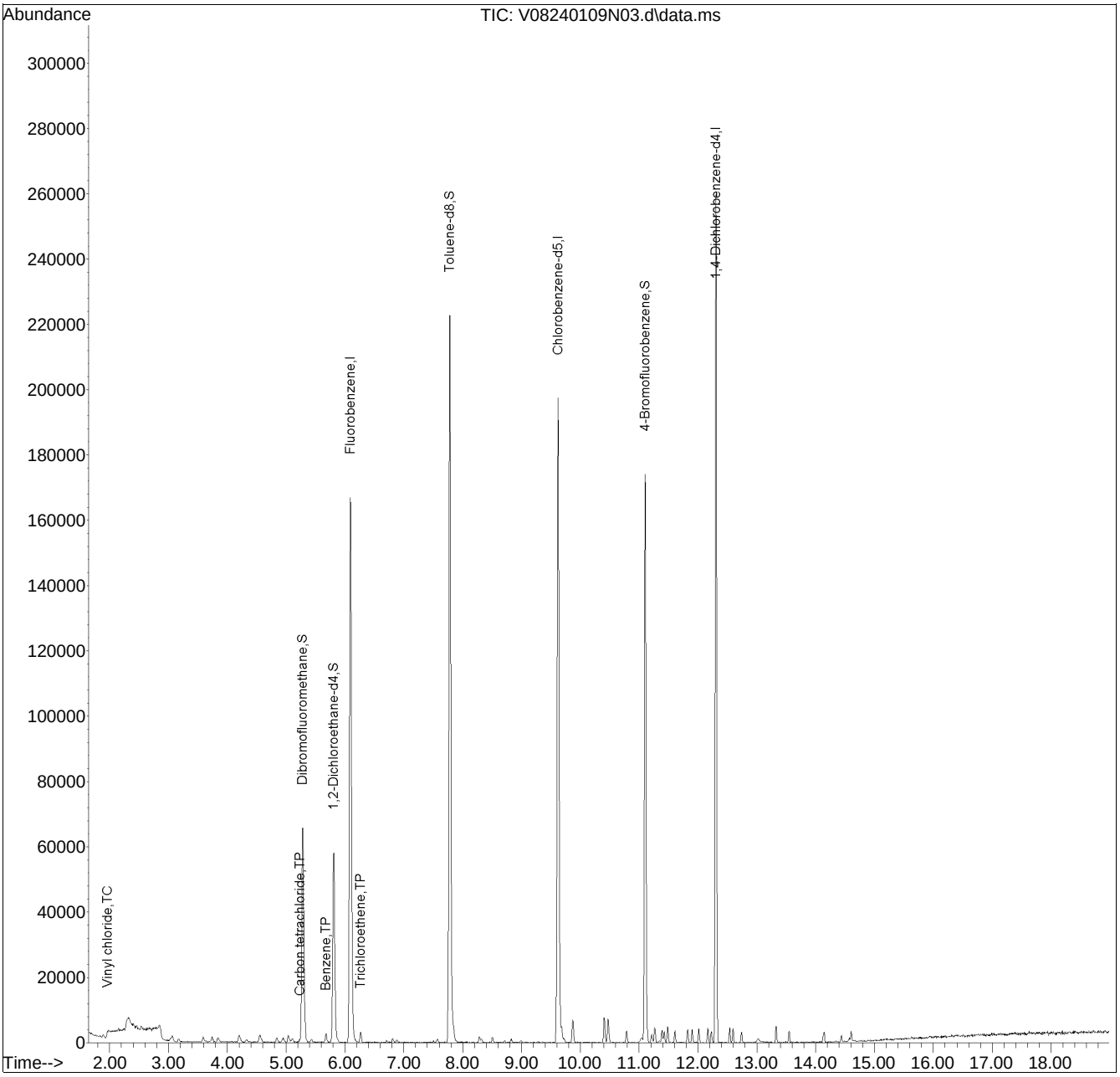
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N03.d
Acq On : 9 Jan 2024 5:17 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1872847,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 10 11:42:19 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR productN09.d•



Manual Integration Report

Data Path	: K:\VOA108\2024\240109NICAL	Method	: V108_240109N_8260.m
Data File	: V08240109N03.d	Operator	: VOA108:PID
Date Inj'd	: 1/9/2024 5:17 pm	Instrument	: VOA 108
Sample	: I8260STD0.19PPB	Quant Date	: 1/10/2024 11:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N05.d
Acq On : 9 Jan 2024 6:01 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1872847,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 10 11:42:27 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.093	96	179655	10.000 ug/L	0.00
Standard Area 1 = 187350			Recovery = 95.89%		
59) Chlorobenzene-d5	9.622	117	137321	10.000 ug/L	0.00
Standard Area 1 = 145008			Recovery = 94.70%		
79) 1,4-Dichlorobenzene-d4	12.306	152	68419	10.000 ug/L	0.00
Standard Area 1 = 75151			Recovery = 91.04%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.281	113	47182	9.993 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.93%		
43) 1,2-Dichloroethane-d4	5.810	65	49117	9.771 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.71%		
60) Toluene-d8	7.782	98	175880	10.224 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.24%		
83) 4-Bromofluorobenzene	11.101	95	63013	10.221 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.21%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.695	85	1390	0.404 ug/L #	74
3) Chloromethane	1.894	50	2070	0.458 ug/L #	84
4) Vinyl chloride	1.962	62	2091	0.433 ug/L	97
5) Bromomethane	2.282	94	1511	0.475 ug/L	98
6) Chloroethane	2.408	64	1293	0.423 ug/L	92
7) Trichlorofluoromethane	2.549	101	2347	0.402 ug/L	96
8) Ethyl ether	2.843	74	789	0.435 ug/L #	52
10) 1,1-Dichloroethene	3.032	96	1301	0.399 ug/L #	71
11) Carbon disulfide	3.063	76	5030	0.448 ug/L	94
12) Freon-113	3.063	101	1275	0.372 ug/L	91
13) Iodomethane	3.173	142	2651	0.463 ug/L #	79
14) Acrolein	0.000		0	N.D.	
15) Methylene chloride	3.593	84	1978	0.512 ug/L	75
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.745	96	1606	0.426 ug/L #	75
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	3.844	73	3765	0.439 ug/L #	85
21) tert-Butyl alcohol	0.000		0	N.D. d	
22) Diisopropyl ether	4.206	45	5806	0.464 ug/L #	87
23) 1,1-Dichloroethane	4.327	63	3251	0.442 ug/L	95
24) Halothane	4.374	117	1147	0.387 ug/L #	59

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N05.d
Acq On : 9 Jan 2024 6:01 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1872847,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 10 11:42:27 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	0.000		0	N.D.	d		
26) Ethyl tert-butyl ether	4.552	59	5148	0.441	ug/L		91
27) Vinyl acetate	0.000		0	N.D.	d		
28) cis-1,2-Dichloroethene	4.851	96	2048	0.472	ug/L	#	69
29) 2,2-Dichloropropane	4.950	77	2773	0.465	ug/L		84
30) Bromochloromethane	5.040	128	802	0.396	ug/L	#	67
31) Cyclohexane	5.040	56	2789	0.426	ug/L		77
32) Chloroform	5.113	83	3295	0.471	ug/L	#	81
33) Ethyl acetate	0.000		0	N.D.	d		
34) Carbon tetrachloride	5.249	117	2306	0.422	ug/L	#	93
35) Tetrahydrofuran	0.000		0	N.D.	d		
37) 1,1,1-Trichloroethane	5.317	97	2607	0.425	ug/L	#	89
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.428	75	2089	0.404	ug/L		97
41) Benzene	5.679	78	6914	0.459	ug/L	#	89
42) tert-Amyl methyl ether	5.784	73	4524	0.464	ug/L		87
44) 1,2-Dichloroethane	5.878	62	2448	0.490	ug/L	#	91
47) Methyl cyclohexane	6.272	83	2499	0.397	ug/L		80
48) Trichloroethene	6.266	95	1682	0.427	ug/L		92
50) Dibromomethane	6.707	93	952	0.435	ug/L		98
51) 1,2-Dichloropropane	6.812	63	1865	0.458	ug/L	#	87
54) Bromodichloromethane	6.885	83	2315	0.432	ug/L	#	98
57) 1,4-Dioxane	7.095	88	1136	80.704	ug/L	#	65
58) cis-1,3-Dichloropropene	7.572	75	2763	0.443	ug/L		96
61) Toluene	7.839	92	4251	0.449	ug/L		96
62) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
63) Tetrachloroethene	8.285	166	1751	0.433	ug/L		82
65) trans-1,3-Dichloropropene	8.316	75	2438	0.466	ug/L		99
67) Ethyl methacrylate	8.510	69	1658	0.477	ug/L	#	25
68) 1,1,2-Trichloroethane	8.505	83	1098	0.461	ug/L		86
69) Chlorodibromomethane	8.715	129	1631	0.430	ug/L		90
70) 1,3-Dichloropropane	8.830	76	2381	0.480	ug/L		95
71) 1,2-Dibromoethane	8.998	107	1374	0.476	ug/L		99
72) 2-Hexanone	9.276	43	825	0.525	ug/L	#	49
73) Chlorobenzene	9.643	112	5256	0.474	ug/L	#	75
74) Ethylbenzene	9.685	91	8497	0.463	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.722	131	1789	0.440	ug/L	#	66
76) p/m Xylene	9.874	106	6567	0.901	ug/L		99
77) o Xylene	10.408	106	6644	0.921	ug/L		92
78) Styrene	10.471	104	10805	0.905	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N05.d
Acq On : 9 Jan 2024 6:01 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1872847,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 10 11:42:27 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	916	0.433	ug/L		81
82) Isopropylbenzene	10.786	105	8236	0.466	ug/L		96
84) Bromobenzene	11.216	156	2197	0.491	ug/L		99
85) n-Propylbenzene	11.263	91	9784	0.472	ug/L		97
86) 1,4-Dichlorobutane	11.274	55	2487	0.541	ug/L	#	84
87) 1,1,2,2-Tetrachloroethane	11.342	83	1648	0.517	ug/L	#	96
88) 4-Ethyltoluene	11.389	105	8153	0.458	ug/L		95
89) 2-Chlorotoluene	11.426	91	6192M6	0.493	ug/L		
90) 1,3,5-Trimethylbenzene	11.489	105	6980	0.456	ug/L		88
91) 1,2,3-Trichloropropane	11.483	75	1275	0.491	ug/L	#	84
92) trans-1,4-Dichloro-2-b...	11.530	53	322	0.356	ug/L	#	7
93) 4-Chlorotoluene	11.609	91	6432	0.494	ug/L		91
94) tert-Butylbenzene	11.824	119	6192	0.468	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	7024	0.466	ug/L		92
98) sec-Butylbenzene	12.013	105	9195	0.477	ug/L		98
99) p-Isopropyltoluene	12.170	119	7707	0.451	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	4586	0.513	ug/L		96
101) 1,4-Dichlorobenzene	12.322	146	4804	0.533	ug/L	#	89
102) p-Diethylbenzene	12.537	119	4743	0.455	ug/L		93
103) n-Butylbenzene	12.595	91	6478	0.455	ug/L		97
104) 1,2-Dichlorobenzene	12.742	146	4230	0.510	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	7892	0.468	ug/L		95
106) 1,2-Dibromo-3-chloropr...	13.518	155	153	0.312	ug/L	#	67
107) 1,3,5-Trichlorobenzene	13.549	180	3131	0.479	ug/L		95
108) Hexachlorobutadiene	14.126	225	1207	0.454	ug/L		91
109) 1,2,4-Trichlorobenzene	14.147	180	2907	0.507	ug/L		93
110) Naphthalene	14.435	128	5533	0.493	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	2506	0.492	ug/L		98

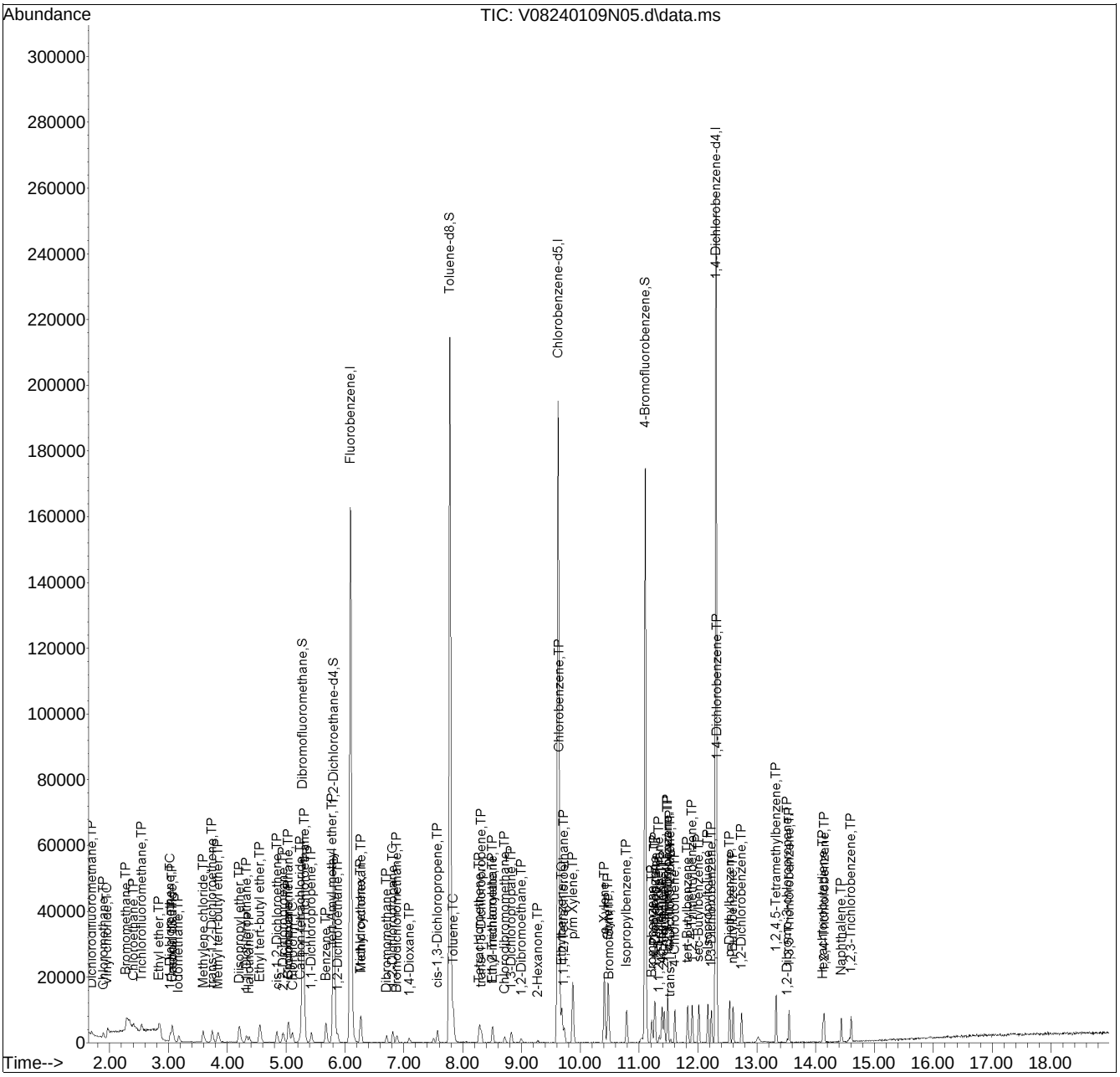
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N05.d
Acq On : 9 Jan 2024 6:01 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1872847,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 10 11:42:27 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•

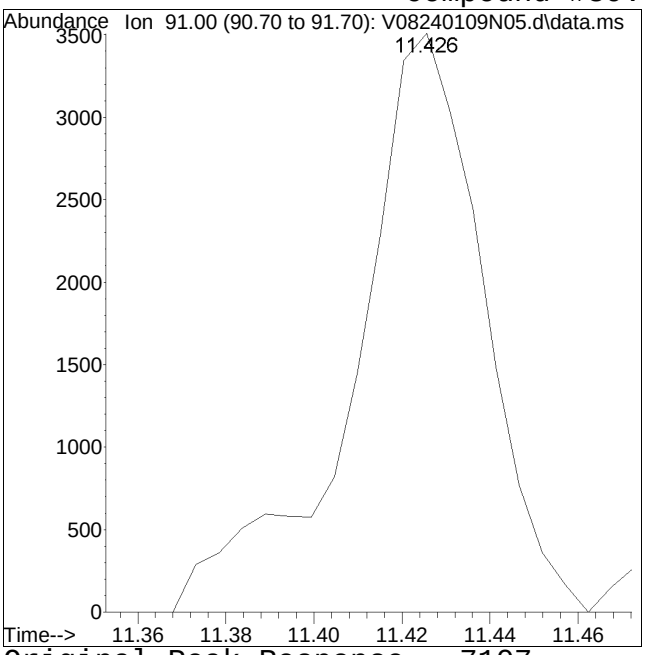


Manual Integration Report

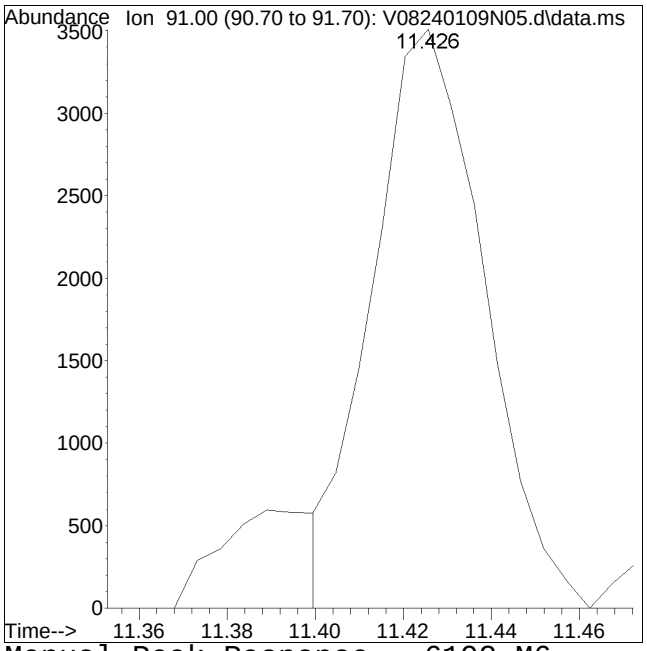
Data Path : K:\VOA108\2024\240109NICALQ
Data File : V08240109N05.d
Date Inj'd : 1/9/2024 6:01 pm
Sample : I8260STD0.5PPB

Method : V108_240109N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 1/10/2024 11:42 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 7107



Manual Peak Response = 6192 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N07.d
Acq On : 9 Jan 2024 6:46 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1872847,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 10 11:42:34 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	186681	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 99.64%			
59) Chlorobenzene-d5	9.627	117	143095	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 98.68%			
79) 1,4-Dichlorobenzene-d4	12.306	152	70790	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 94.20%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	49854	10.162	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.62%			
43) 1,2-Dichloroethane-d4	5.810	65	51496	9.859	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.59%			
60) Toluene-d8	7.782	98	182831	10.200	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.00%			
83) 4-Bromofluorobenzene	11.100	95	65162	10.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.15%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	6879	1.926	ug/L	99
3) Chloromethane	1.894	50	9372	1.995	ug/L	99
4) Vinyl chloride	1.962	62	10105	2.012	ug/L	97
5) Bromomethane	2.282	94	6444	1.950	ug/L	98
6) Chloroethane	2.407	64	6436	2.026	ug/L	95
7) Trichlorofluoromethane	2.544	101	12012	1.979	ug/L	99
8) Ethyl ether	2.837	74	3543	1.882	ug/L #	80
10) 1,1-Dichloroethene	3.031	96	6506	1.920	ug/L #	68
11) Carbon disulfide	3.063	76	22736	1.948	ug/L	97
12) Freon-113	3.073	101	6949	1.952	ug/L	99
13) Iodomethane	3.173	142	11544	1.938	ug/L	85
14) Acrolein	3.351	56	342	1.609	ug/L	83
15) Methylene chloride	3.587	84	7893	1.966	ug/L	76
17) Acetone	3.624	43	1719	2.623	ug/L #	69
18) trans-1,2-Dichloroethene	3.739	96	7629	1.949	ug/L	76
19) Methyl acetate	3.750	43	3705	2.246	ug/L #	87
20) Methyl tert-butyl ether	3.839	73	16269	1.824	ug/L	94
21) tert-Butyl alcohol	3.917	59	1348	8.816	ug/L #	78
22) Diisopropyl ether	4.206	45	24495	1.885	ug/L #	89
23) 1,1-Dichloroethane	4.326	63	15153	1.983	ug/L	98
24) Halothane	4.374	117	5777	1.875	ug/L	99

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N07.d
Acq On : 9 Jan 2024 6:46 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1872847,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 10 11:42:34 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.368	53	1387	1.798	ug/L	#	79
26) Ethyl tert-butyl ether	4.552	59	22400	1.849	ug/L		95
27) Vinyl acetate	4.557	43	12570	1.666	ug/L		100
28) cis-1,2-Dichloroethene	4.845	96	8797	1.952	ug/L	#	71
29) 2,2-Dichloropropane	4.950	77	11990	1.935	ug/L		95
30) Bromochloromethane	5.029	128	4149	1.974	ug/L	#	59
31) Cyclohexane	5.039	56	12765	1.878	ug/L	#	65
32) Chloroform	5.108	83	14220	1.957	ug/L		95
33) Ethyl acetate	5.212	43	4811	1.883	ug/L	#	90
34) Carbon tetrachloride	5.249	117	11531	2.033	ug/L		94
35) Tetrahydrofuran	5.254	42	1284M6	1.939	ug/L		
37) 1,1,1-Trichloroethane	5.307	97	12357	1.940	ug/L	#	93
39) 2-Butanone	5.396	43	2058	2.019	ug/L	#	37
40) 1,1-Dichloropropene	5.433	75	10094	1.878	ug/L		97
41) Benzene	5.679	78	30178	1.928	ug/L		91
42) tert-Amyl methyl ether	5.784	73	18494	1.824	ug/L		91
44) 1,2-Dichloroethane	5.873	62	9996	1.924	ug/L		98
47) Methyl cyclohexane	6.266	83	11941	1.823	ug/L	#	76
48) Trichloroethene	6.266	95	7791	1.902	ug/L		93
50) Dibromomethane	6.707	93	4424	1.943	ug/L		97
51) 1,2-Dichloropropane	6.812	63	7867	1.858	ug/L		96
54) Bromodichloromethane	6.880	83	10449	1.878	ug/L		99
57) 1,4-Dioxane	7.095	88	4930	337.057	ug/L	#	76
58) cis-1,3-Dichloropropene	7.572	75	11746	1.814	ug/L		97
61) Toluene	7.839	92	19084	1.935	ug/L		98
62) 4-Methyl-2-pentanone	8.269	58	1784	1.849	ug/L		86
63) Tetrachloroethene	8.285	166	8068	1.913	ug/L		90
65) trans-1,3-Dichloropropene	8.316	75	10010	1.838	ug/L		99
67) Ethyl methacrylate	8.510	69	6771	1.871	ug/L	#	40
68) 1,1,2-Trichloroethane	8.505	83	4679	1.884	ug/L		91
69) Chlorodibromomethane	8.715	129	7126	1.802	ug/L		97
70) 1,3-Dichloropropane	8.825	76	9925	1.920	ug/L		99
71) 1,2-Dibromoethane	8.993	107	5839	1.942	ug/L		99
72) 2-Hexanone	9.276	43	3219	1.965	ug/L	#	94
73) Chlorobenzene	9.643	112	22403	1.939	ug/L		92
74) Ethylbenzene	9.685	91	37215	1.945	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.727	131	7967	1.879	ug/L		95
76) p/m Xylene	9.874	106	29085	3.830	ug/L		96
77) o Xylene	10.408	106	29064	3.866	ug/L		89
78) Styrene	10.471	104	47525	3.820	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N07.d
Acq On : 9 Jan 2024 6:46 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1872847,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 10 11:42:34 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	4148	1.896	ug/L		94
82) Isopropylbenzene	10.786	105	36795	2.011	ug/L		96
84) Bromobenzene	11.216	156	9555	2.064	ug/L		98
85) n-Propylbenzene	11.263	91	43396	2.022	ug/L		95
86) 1,4-Dichlorobutane	11.273	55	9670	2.034	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.342	83	6812	2.067	ug/L		99
88) 4-Ethyltoluene	11.389	105	37370	2.031	ug/L		97
89) 2-Chlorotoluene	11.425	91	27268M6	2.097	ug/L		
90) 1,3,5-Trimethylbenzene	11.483	105	31635	1.996	ug/L		90
91) 1,2,3-Trichloropropane	11.483	75	5715	2.128	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.536	53	1995	2.131	ug/L	#	81
93) 4-Chlorotoluene	11.609	91	27688	2.055	ug/L		91
94) tert-Butylbenzene	11.824	119	27901	2.037	ug/L		99
97) 1,2,4-Trimethylbenzene	11.903	105	30589	1.961	ug/L		90
98) sec-Butylbenzene	12.013	105	40286	2.022	ug/L		95
99) p-Isopropyltoluene	12.170	119	35376	2.003	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	18714	2.025	ug/L		99
101) 1,4-Dichlorobenzene	12.322	146	18939	2.030	ug/L		97
102) p-Diethylbenzene	12.537	119	20994	1.948	ug/L		94
103) n-Butylbenzene	12.595	91	29396	1.995	ug/L		97
104) 1,2-Dichlorobenzene	12.741	146	17709	2.063	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.329	119	34733	1.993	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.517	155	1059	2.090	ug/L		96
107) 1,3,5-Trichlorobenzene	13.549	180	13806	2.040	ug/L		94
108) Hexachlorobutadiene	14.126	225	5714	2.079	ug/L		92
109) 1,2,4-Trichlorobenzene	14.147	180	11809	1.990	ug/L		98
110) Naphthalene	14.440	128	23375	2.013	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	10730	2.036	ug/L		98

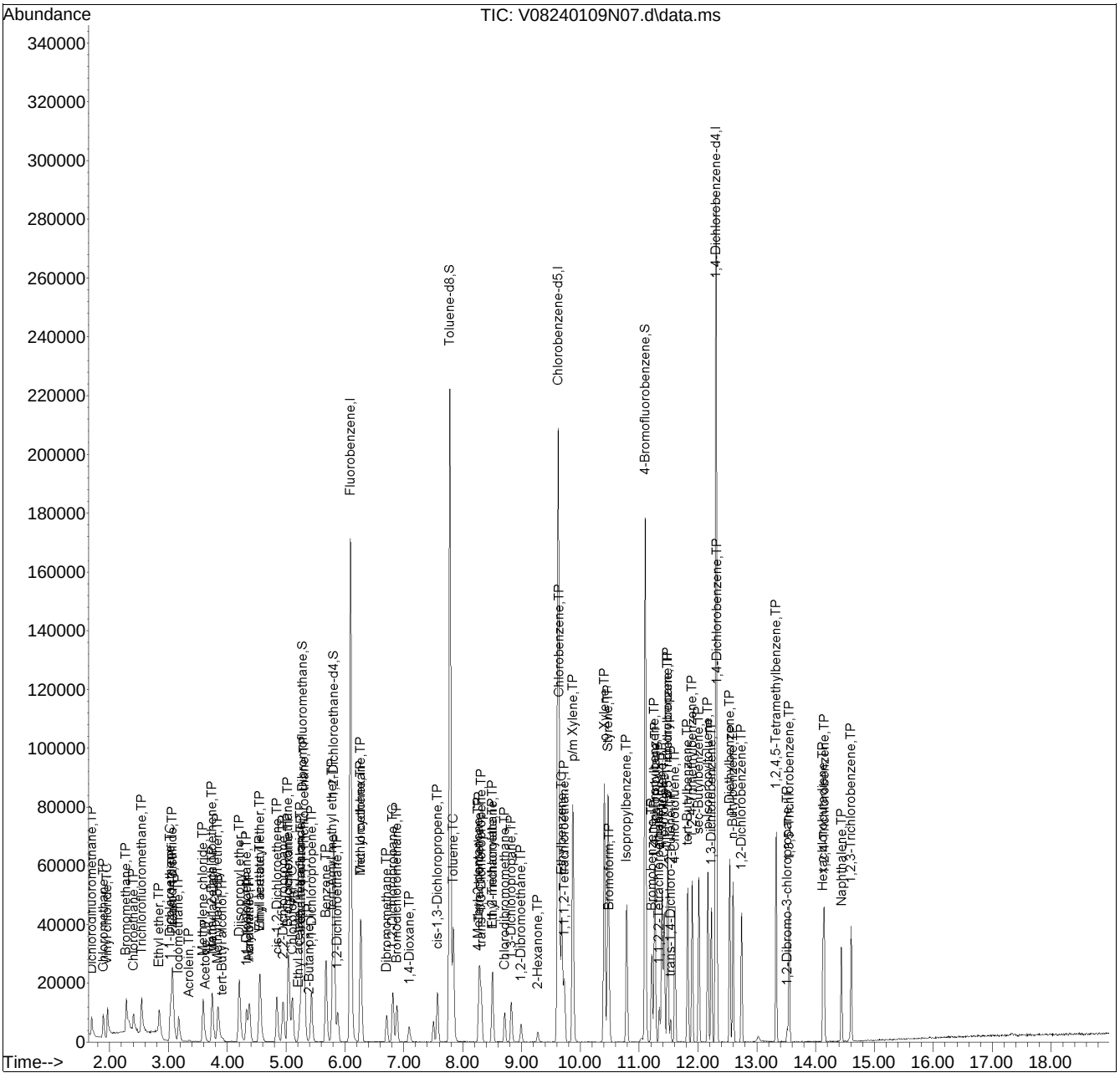
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N07.d
Acq On : 9 Jan 2024 6:46 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1872847,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 10 11:42:34 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

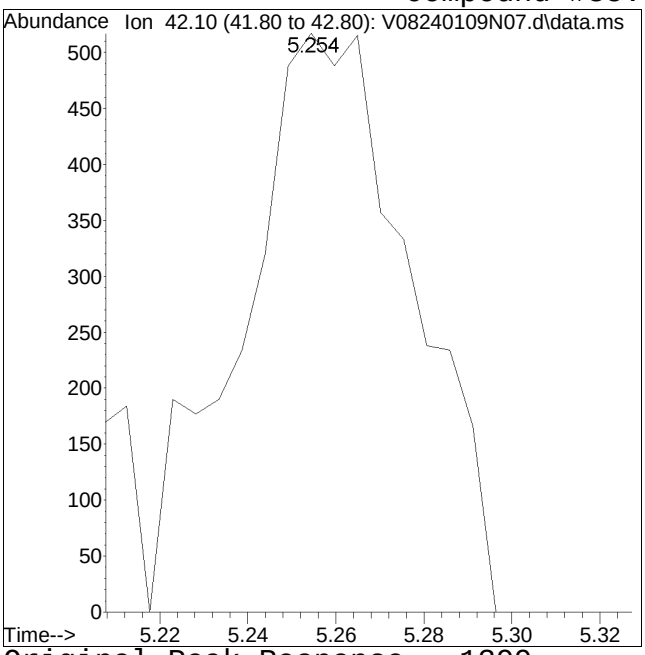
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



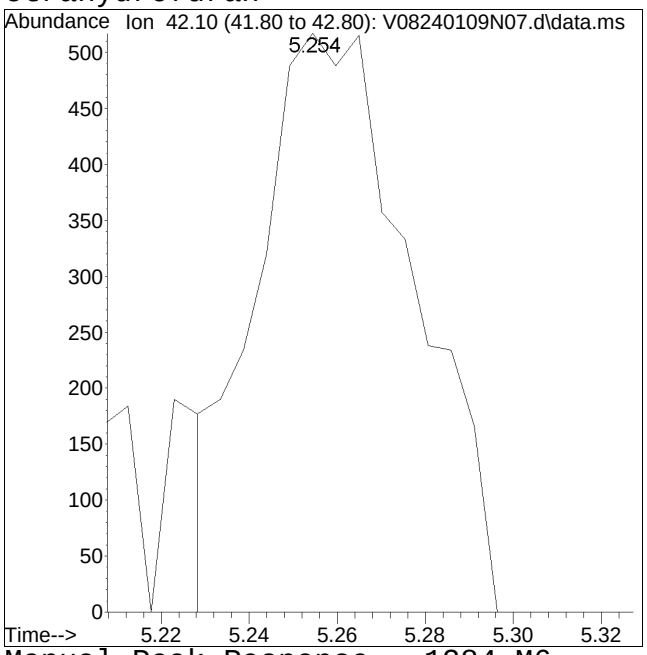
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N07.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 6:46 pm Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 1/10/2024 11:42 am

Compound #35: Tetrahydrofuran



Original Peak Response = 1399



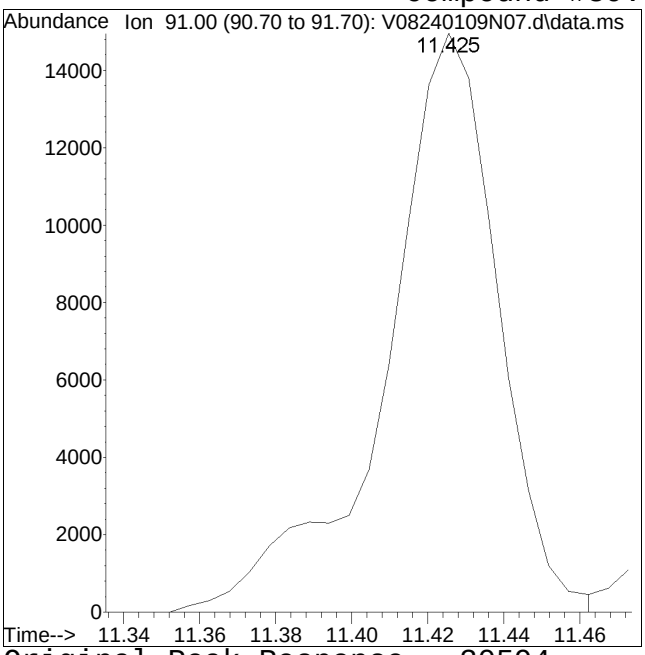
Manual Peak Response = 1284 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

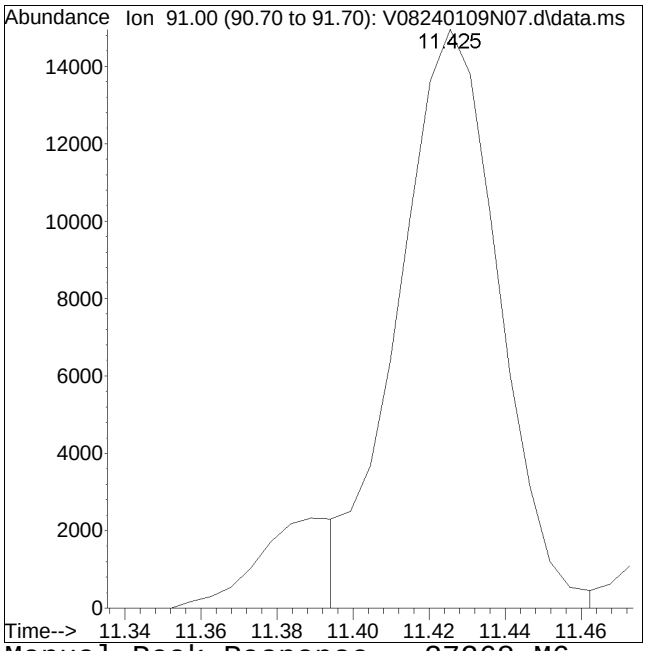
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N07.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 6:46 pm Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 1/10/2024 11:42 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 30594



Manual Peak Response = 27268 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N09.d
Acq On : 9 Jan 2024 7:30 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 10 11:42:42 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	187350	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 100.00%			
59) Chlorobenzene-d5	9.622	117	145008	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.307	152	75151	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.286	113	49413	10.036	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.36%			
43) 1,2-Dichloroethane-d4	5.810	65	53921	10.287	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.87%			
60) Toluene-d8	7.782	98	183398	10.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.96%			
83) 4-Bromofluorobenzene	11.106	95	67586	9.981	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.695	85	37109	10.351	ug/L	99
3) Chloromethane	1.894	50	47883	10.158	ug/L	100
4) Vinyl chloride	1.962	62	53080	10.532	ug/L	96
5) Bromomethane	2.282	94	32117	9.683	ug/L	99
6) Chloroethane	2.408	64	32902	10.318	ug/L	96
7) Trichlorofluoromethane	2.544	101	62886	10.323	ug/L	97
8) Ethyl ether	2.843	74	18691	9.891	ug/L	79
10) 1,1-Dichloroethene	3.032	96	34228	10.067	ug/L #	68
11) Carbon disulfide	3.063	76	115970	9.903	ug/L	96
12) Freon-113	3.074	101	36368	10.179	ug/L	98
13) Iodomethane	3.173	142	59620	9.975	ug/L	86
14) Acrolein	3.351	56	2057	9.641	ug/L	96
15) Methylene chloride	3.587	84	39148	9.717	ug/L	75
17) Acetone	3.629	43	6296	9.573	ug/L	90
18) trans-1,2-Dichloroethene	3.739	96	39178	9.974	ug/L	79
19) Methyl acetate	3.750	43	15957	9.637	ug/L #	82
20) Methyl tert-butyl ether	3.844	73	84871	9.483	ug/L	96
21) tert-Butyl alcohol	3.928	59	7405	48.255	ug/L #	78
22) Diisopropyl ether	4.206	45	126318	9.687	ug/L #	90
23) 1,1-Dichloroethane	4.327	63	76779	10.011	ug/L	99
24) Halothane	4.374	117	31402	10.153	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N09.d
Acq On : 9 Jan 2024 7:30 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 10 11:42:42 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.369	53	7520	9.714	ug/L	#	83
26) Ethyl tert-butyl ether	4.552	59	115452	9.494	ug/L		91
27) Vinyl acetate	4.557	43	77404	10.222	ug/L	#	95
28) cis-1,2-Dichloroethene	4.840	96	44616	9.863	ug/L	#	71
29) 2,2-Dichloropropane	4.951	77	62322	10.021	ug/L		98
30) Bromochloromethane	5.034	128	20829	9.874	ug/L	#	59
31) Cyclohexane	5.045	56	68749	10.078	ug/L	#	65
32) Chloroform	5.108	83	72977	10.006	ug/L		98
33) Ethyl acetate	5.213	43	24642	9.611	ug/L	#	91
34) Carbon tetrachloride	5.244	117	58627	10.298	ug/L		98
35) Tetrahydrofuran	5.255	42	6404M6	9.639	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	64660	10.115	ug/L	#	93
39) 2-Butanone	5.396	43	9764	9.543	ug/L	#	90
40) 1,1-Dichloropropene	5.433	75	53997	10.013	ug/L		95
41) Benzene	5.679	78	153530	9.772	ug/L		91
42) tert-Amyl methyl ether	5.789	73	96538	9.488	ug/L		89
44) 1,2-Dichloroethane	5.879	62	50783	9.739	ug/L		98
47) Methyl cyclohexane	6.267	83	64466	9.809	ug/L	#	73
48) Trichloroethene	6.272	95	40820	9.928	ug/L		93
50) Dibromomethane	6.707	93	22074	9.663	ug/L		96
51) 1,2-Dichloropropane	6.812	63	41443	9.752	ug/L		96
54) Bromodichloromethane	6.885	83	54538	9.766	ug/L		99
57) 1,4-Dioxane	7.095	88	8158	555.759	ug/L	#	75
58) cis-1,3-Dichloropropene	7.572	75	61945	9.534	ug/L		95
61) Toluene	7.839	92	99635	9.970	ug/L		96
62) 4-Methyl-2-pentanone	8.269	58	9295	9.504	ug/L	#	91
63) Tetrachloroethene	8.285	166	42220	9.881	ug/L		91
65) trans-1,3-Dichloropropene	8.317	75	53155	9.630	ug/L		98
67) Ethyl methacrylate	8.505	69	35367	9.643	ug/L	#	39
68) 1,1,2-Trichloroethane	8.505	83	24642	9.790	ug/L		94
69) Chlorodibromomethane	8.715	129	38403	9.584	ug/L		97
70) 1,3-Dichloropropane	8.825	76	51220	9.780	ug/L		99
71) 1,2-Dibromoethane	8.993	107	29515	9.688	ug/L		97
72) 2-Hexanone	9.276	43	15736	9.477	ug/L		95
73) Chlorobenzene	9.643	112	114888	9.814	ug/L		98
74) Ethylbenzene	9.685	91	191958	9.901	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.727	131	41582	9.679	ug/L		94
76) p/m Xylene	9.874	106	152711	19.843	ug/L		93
77) o Xylene	10.409	106	150719	19.786	ug/L		88
78) Styrene	10.471	104	248088	19.677	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N09.d
Acq On : 9 Jan 2024 7:30 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 10 11:42:42 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	22190	9.555	ug/L		95
82) Isopropylbenzene	10.786	105	194328	10.005	ug/L		96
84) Bromobenzene	11.216	156	48274	9.824	ug/L		99
85) n-Propylbenzene	11.263	91	228188	10.017	ug/L		95
86) 1,4-Dichlorobutane	11.274	55	49345	9.776	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.342	83	34670	9.908	ug/L		98
88) 4-Ethyltoluene	11.389	105	195865	10.028	ug/L		95
89) 2-Chlorotoluene	11.426	91	135069M6	9.786	ug/L		
90) 1,3,5-Trimethylbenzene	11.489	105	168149	9.993	ug/L		89
91) 1,2,3-Trichloropropane	11.478	75	28124	9.866	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.536	53	10340	10.406	ug/L	#	79
93) 4-Chlorotoluene	11.609	91	143208	10.013	ug/L		90
94) tert-Butylbenzene	11.824	119	146611	10.083	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	164831	9.953	ug/L		91
98) sec-Butylbenzene	12.013	105	212887	10.065	ug/L		95
99) p-Isopropyltoluene	12.170	119	189944	10.131	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	96756	9.861	ug/L		98
101) 1,4-Dichlorobenzene	12.322	146	96508	9.744	ug/L		97
102) p-Diethylbenzene	12.537	119	113180	9.895	ug/L		94
103) n-Butylbenzene	12.595	91	159013	10.167	ug/L		97
104) 1,2-Dichlorobenzene	12.742	146	90227	9.902	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.329	119	183557	9.920	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.518	155	5526	10.272	ug/L		91
107) 1,3,5-Trichlorobenzene	13.549	180	71549	9.961	ug/L		95
108) Hexachlorobutadiene	14.126	225	29630	10.155	ug/L		95
109) 1,2,4-Trichlorobenzene	14.147	180	61666	9.787	ug/L		98
110) Naphthalene	14.435	128	121332	9.842	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	54770	9.789	ug/L		99

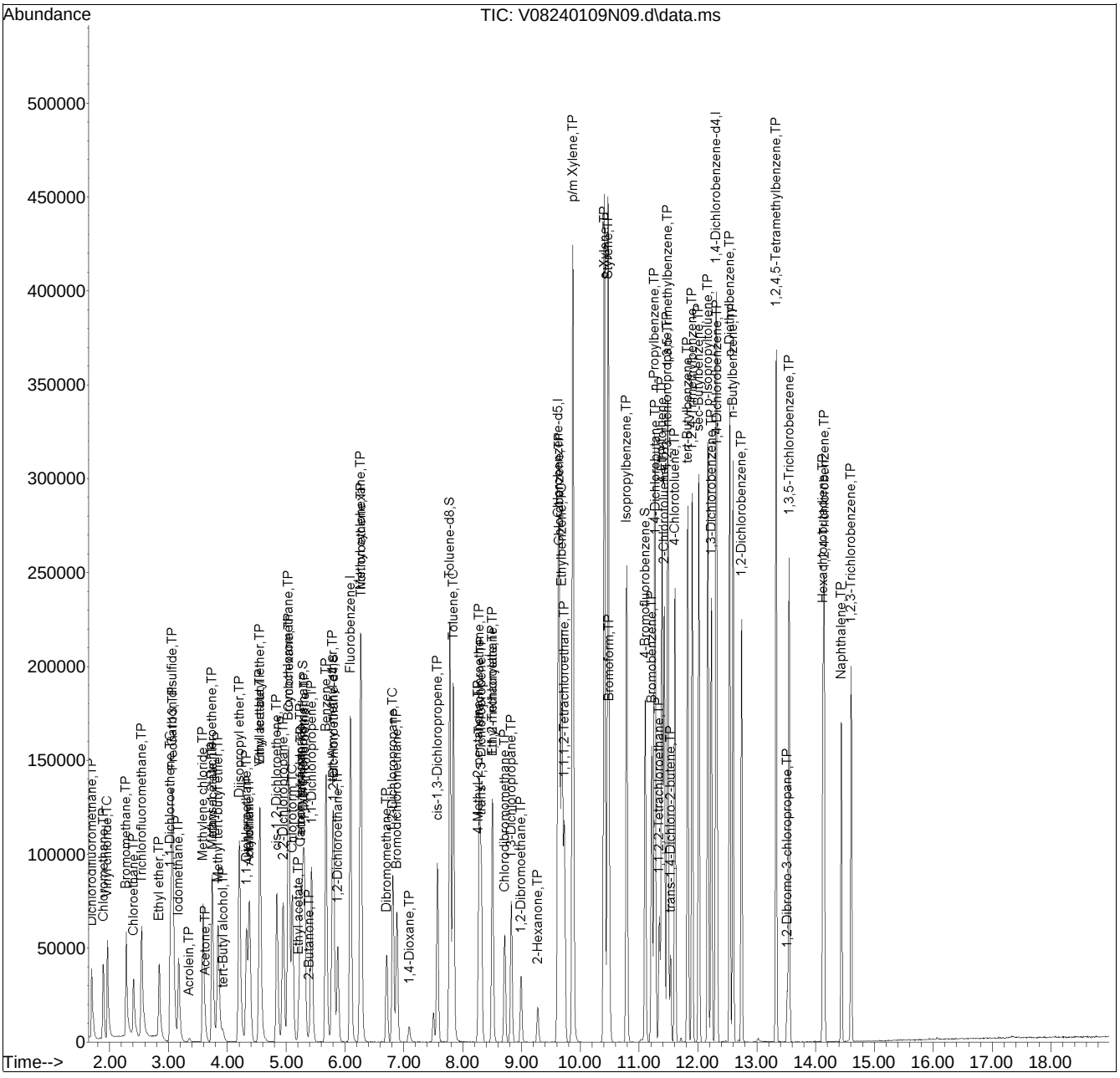
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N09.d
Acq On : 9 Jan 2024 7:30 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 10 11:42:42 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

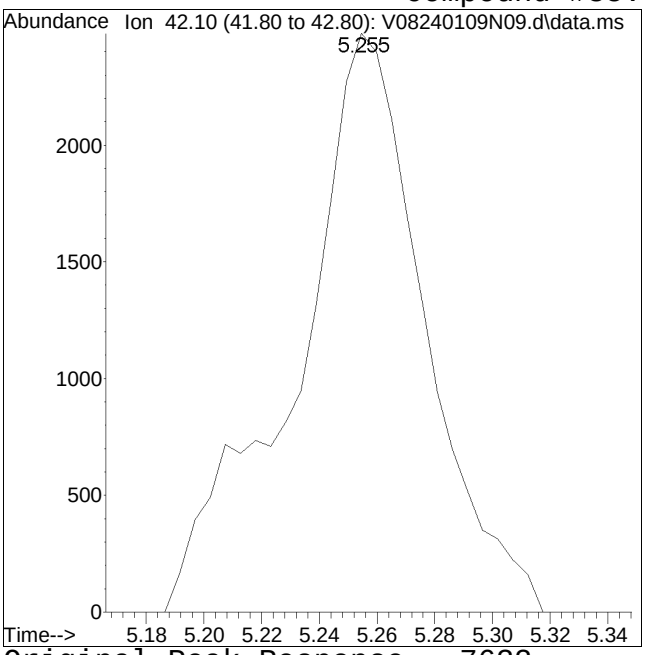
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



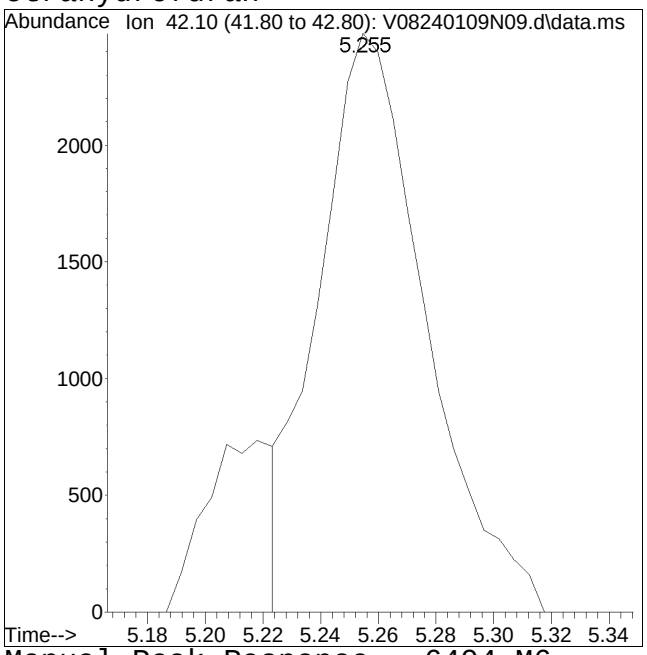
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N09.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 7:30 pm Instrument : VOA 108
Sample : I8260STD10PPB Quant Date : 1/10/2024 11:42 am

Compound #35: Tetrahydrofuran



Original Peak Response = 7632



Manual Peak Response = 6404 M6

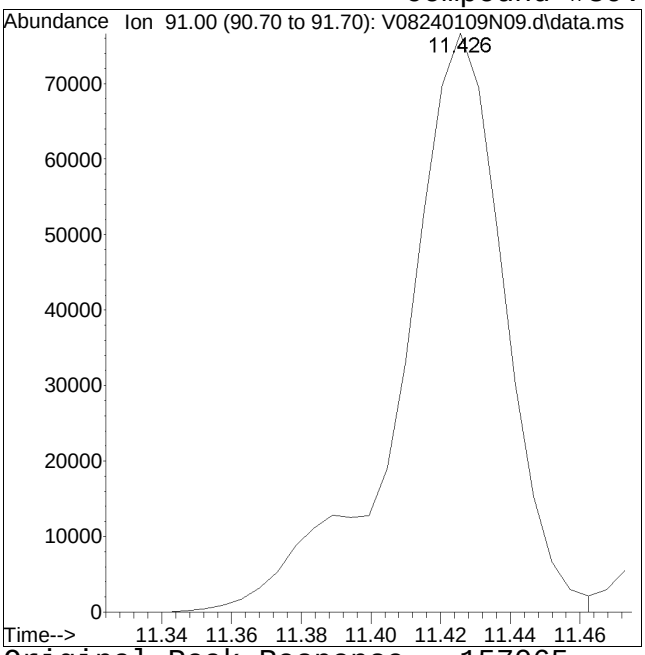
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

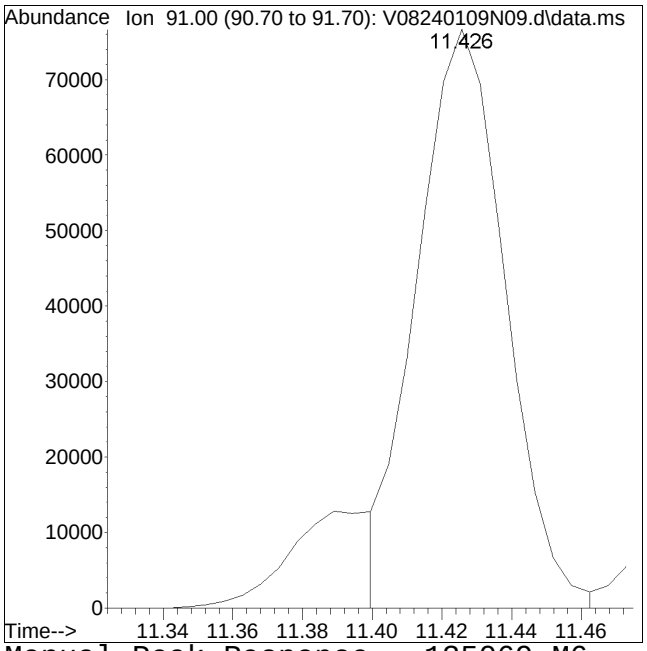
Data Path : K:\VOA108\2024\240109NICALQ
Data File : V08240109N09.d
Date Inj'd : 1/9/2024 7:30 pm
Sample : I8260STD10PPB

Method : V108_240109N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 1/10/2024 11:42 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 157065



Manual Peak Response = 135069 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N10.d
Acq On : 9 Jan 2024 7:52 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1872847,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 10 11:42:50 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	189062	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 100.91%			
59) Chlorobenzene-d5	9.622	117	149028	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 102.77%			
79) 1,4-Dichlorobenzene-d4	12.306	152	78812	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 104.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	49696	10.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.02%			
43) 1,2-Dichloroethane-d4	5.810	65	52566	9.937	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.37%			
60) Toluene-d8	7.782	98	186762	10.004	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
83) 4-Bromofluorobenzene	11.100	95	70638	9.947	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	111139	30.721	ug/L	100
3) Chloromethane	1.894	50	144516	30.380	ug/L	100
4) Vinyl chloride	1.962	62	159655	31.392	ug/L	96
5) Bromomethane	2.282	94	100351	29.980	ug/L	97
6) Chloroethane	2.408	64	99142	30.810	ug/L	96
7) Trichlorofluoromethane	2.544	101	187508	30.502	ug/L	97
8) Ethyl ether	2.843	74	58805	30.837	ug/L	76
10) 1,1-Dichloroethene	3.031	96	104269	30.390	ug/L #	68
11) Carbon disulfide	3.063	76	353573	29.919	ug/L	96
12) Freon-113	3.073	101	109515	30.374	ug/L	97
13) Iodomethane	3.173	142	184672	30.619	ug/L	87
14) Acrolein	3.351	56	6045	28.075	ug/L	99
15) Methylene chloride	3.587	84	119878	29.486	ug/L	75
17) Acetone	3.624	43	18205	27.431	ug/L	98
18) trans-1,2-Dichloroethene	3.744	96	120797	30.474	ug/L	78
19) Methyl acetate	3.744	43	48317	28.915	ug/L #	80
20) Methyl tert-butyl ether	3.844	73	276782	30.647	ug/L	95
21) tert-Butyl alcohol	3.923	59	23196	149.789	ug/L #	78
22) Diisopropyl ether	4.206	45	398759	30.304	ug/L #	91
23) 1,1-Dichloroethane	4.326	63	235603	30.440	ug/L	99
24) Halothane	4.379	117	95698	30.662	ug/L	99

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N10.d
Acq On : 9 Jan 2024 7:52 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1872847,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 10 11:42:50 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.368	53	23505	30.087	ug/L	#	83
26) Ethyl tert-butyl ether	4.552	59	371915	30.308	ug/L		94
27) Vinyl acetate	4.557	43	229173	29.989	ug/L	#	95
28) cis-1,2-Dichloroethene	4.840	96	137082	30.029	ug/L	#	72
29) 2,2-Dichloropropane	4.950	77	187987	29.954	ug/L		98
30) Bromochloromethane	5.034	128	65798	30.910	ug/L	#	56
31) Cyclohexane	5.045	56	208627	30.305	ug/L	#	64
32) Chloroform	5.108	83	223417	30.355	ug/L		98
33) Ethyl acetate	5.213	43	77954	30.129	ug/L	#	91
34) Carbon tetrachloride	5.249	117	180169	31.360	ug/L		98
35) Tetrahydrofuran	5.254	42	19993M6	29.819	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	197259	30.580	ug/L	#	93
39) 2-Butanone	5.396	43	31480	30.489	ug/L	#	89
40) 1,1-Dichloropropene	5.433	75	168693	30.998	ug/L		95
41) Benzene	5.679	78	483288	30.482	ug/L		91
42) tert-Amyl methyl ether	5.789	73	309999	30.190	ug/L		89
44) 1,2-Dichloroethane	5.878	62	159082	30.232	ug/L		97
47) Methyl cyclohexane	6.266	83	200825	30.280	ug/L	#	73
48) Trichloroethene	6.272	95	131012	31.576	ug/L		92
50) Dibromomethane	6.707	93	70186	30.445	ug/L		96
51) 1,2-Dichloropropane	6.817	63	131261	30.609	ug/L		97
54) Bromodichloromethane	6.880	83	173645	30.812	ug/L		99
57) 1,4-Dioxane	7.095	88	9662	652.257	ug/L	#	77
58) cis-1,3-Dichloropropene	7.572	75	201996	30.808	ug/L		94
61) Toluene	7.839	92	312835	30.459	ug/L		96
62) 4-Methyl-2-pentanone	8.269	58	30176	30.023	ug/L	#	93
63) Tetrachloroethene	8.285	166	133207	30.335	ug/L		90
65) trans-1,3-Dichloropropene	8.316	75	174471	30.755	ug/L		98
67) Ethyl methacrylate	8.510	69	114590	30.399	ug/L	#	39
68) 1,1,2-Trichloroethane	8.505	83	78814	30.466	ug/L		93
69) Chlorodibromomethane	8.715	129	127370	30.929	ug/L		97
70) 1,3-Dichloropropane	8.825	76	164357	30.535	ug/L		99
71) 1,2-Dibromoethane	8.993	107	94591	30.212	ug/L		98
72) 2-Hexanone	9.276	43	50830	29.786	ug/L		96
73) Chlorobenzene	9.643	112	363449	30.210	ug/L		98
74) Ethylbenzene	9.685	91	605114	30.370	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.727	131	135103	30.599	ug/L		95
76) p/m Xylene	9.874	106	484180	61.217	ug/L		93
77) o Xylene	10.408	106	476578	60.877	ug/L		88
78) Styrene	10.471	104	803633	62.022	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N10.d
Acq On : 9 Jan 2024 7:52 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1872847,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 10 11:42:50 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	74014	30.390	ug/L		96
82) Isopropylbenzene	10.786	105	614860	30.187	ug/L		95
84) Bromobenzene	11.216	156	152844	29.659	ug/L		98
85) n-Propylbenzene	11.263	91	722217	30.231	ug/L		94
86) 1,4-Dichlorobutane	11.274	55	156090	29.487	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.342	83	109391	29.808	ug/L		99
88) 4-Ethyltoluene	11.389	105	622639	30.398	ug/L		95
89) 2-Chlorotoluene	11.426	91	441680M6	30.515	ug/L		
90) 1,3,5-Trimethylbenzene	11.488	105	543078	30.777	ug/L		89
91) 1,2,3-Trichloropropane	11.483	75	89177	29.831	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.536	53	32307	31.003	ug/L	#	73
93) 4-Chlorotoluene	11.609	91	451263	30.086	ug/L		90
94) tert-Butylbenzene	11.824	119	461225	30.246	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	532867	30.680	ug/L		91
98) sec-Butylbenzene	12.013	105	674518	30.408	ug/L		96
99) p-Isopropyltoluene	12.170	119	603593	30.697	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	308434	29.976	ug/L		98
101) 1,4-Dichlorobenzene	12.322	146	308332	29.684	ug/L		98
102) p-Diethylbenzene	12.537	119	367724	30.655	ug/L		93
103) n-Butylbenzene	12.595	91	505798	30.838	ug/L		96
104) 1,2-Dichlorobenzene	12.742	146	285998	29.928	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	592301	30.523	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.518	155	18012	31.926	ug/L		93
107) 1,3,5-Trichlorobenzene	13.549	180	227992	30.265	ug/L		95
108) Hexachlorobutadiene	14.126	225	93045	30.407	ug/L		96
109) 1,2,4-Trichlorobenzene	14.147	180	196861	29.793	ug/L		98
110) Naphthalene	14.435	128	388249	30.029	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	175459	29.904	ug/L		99

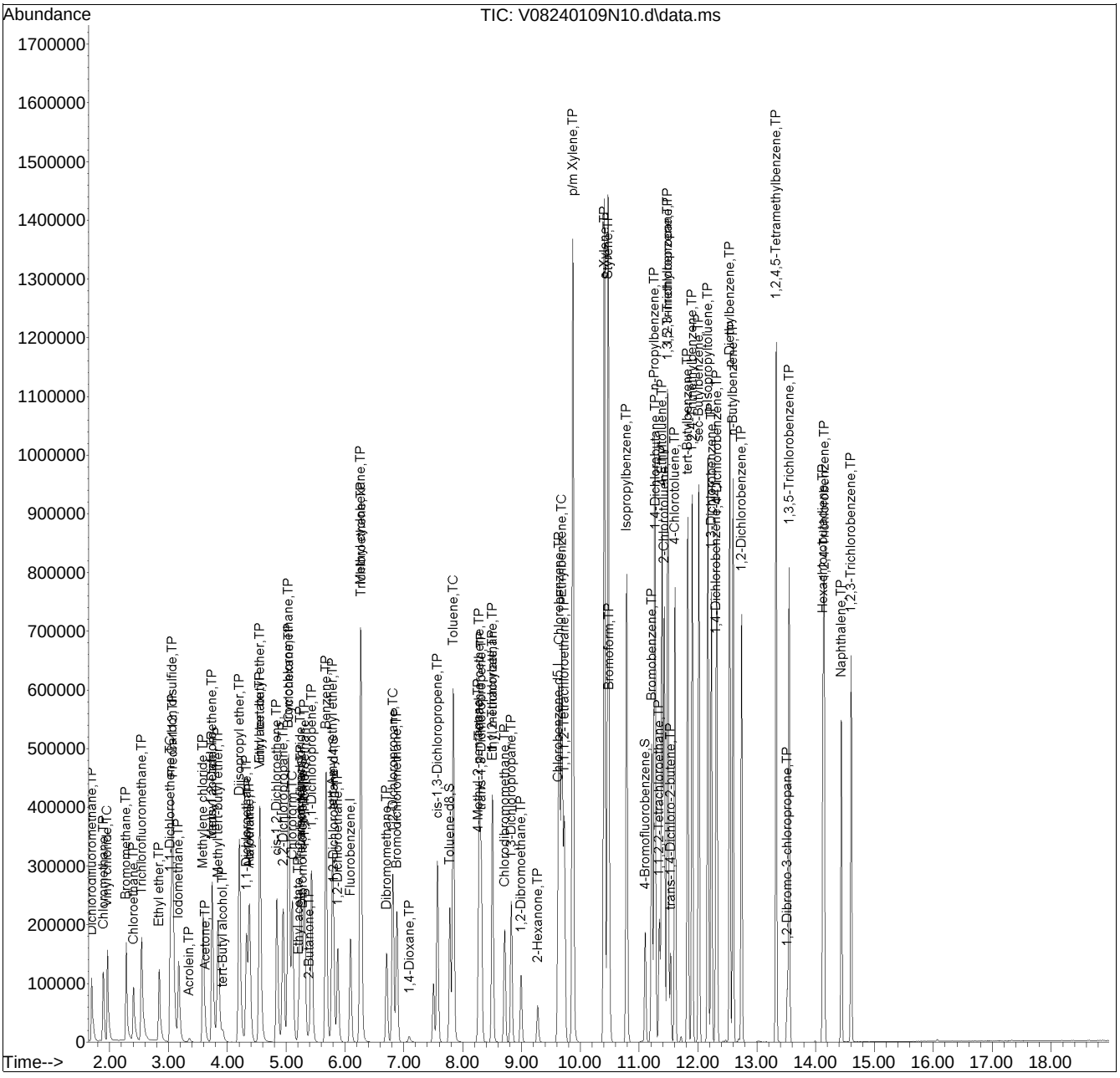
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N10.d
Acq On : 9 Jan 2024 7:52 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1872847,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 10 11:42:50 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

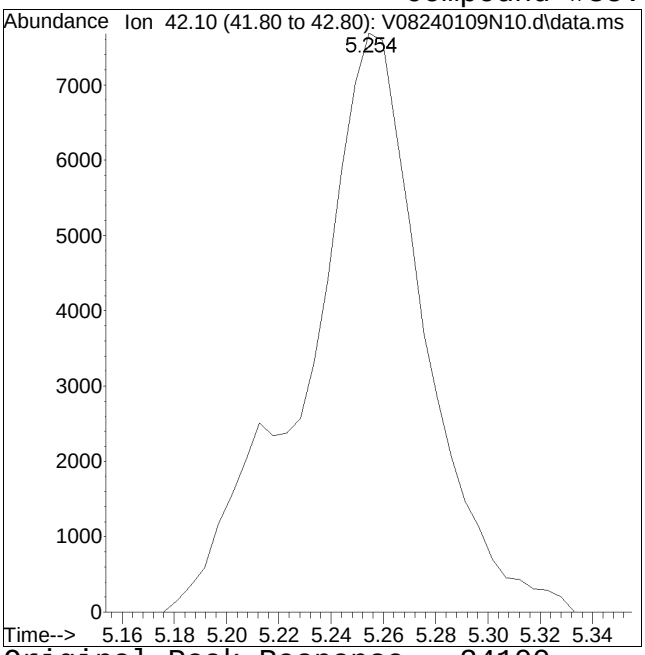
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



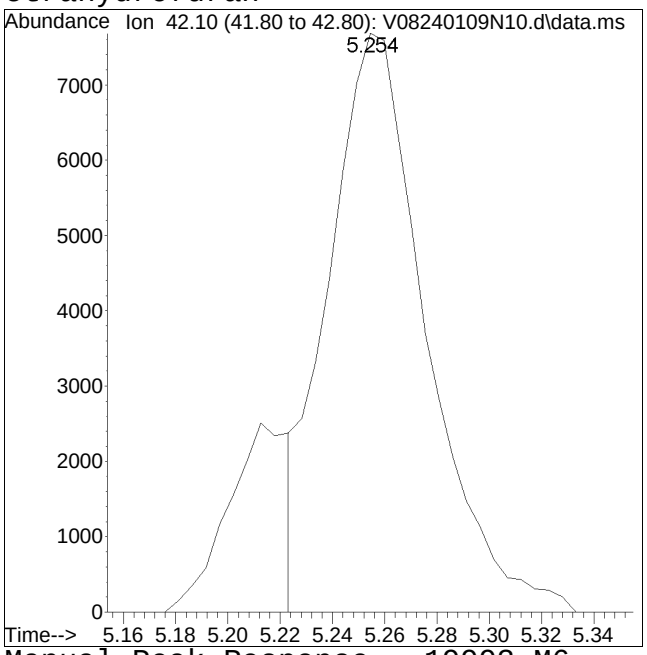
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N10.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 7:52 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 1/10/2024 11:42 am

Compound #35: Tetrahydrofuran



Original Peak Response = 24100



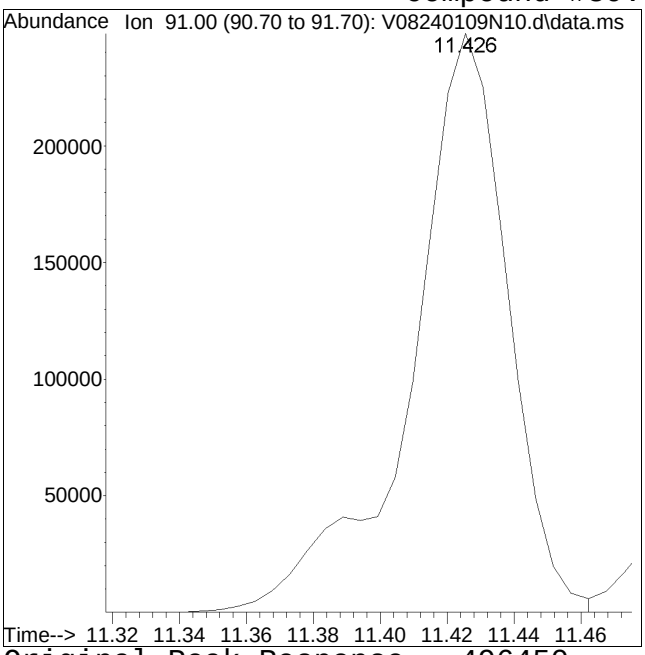
Manual Peak Response = 19993 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

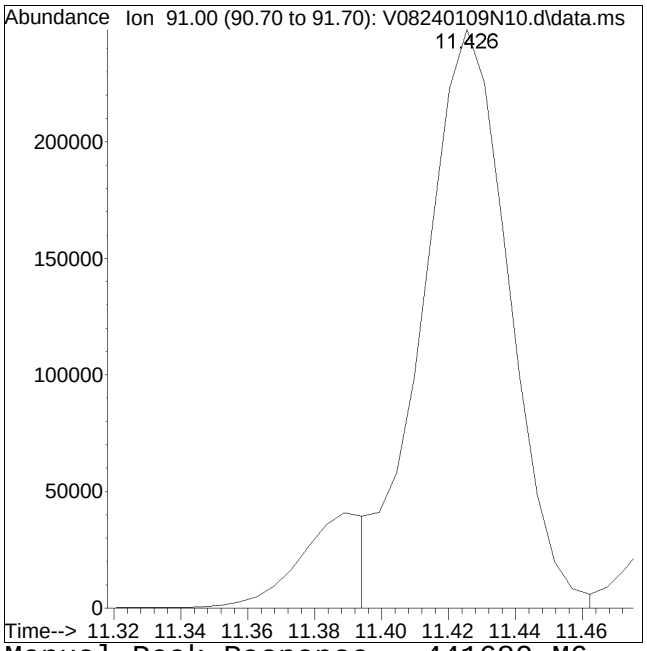
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N10.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 7:52 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 1/10/2024 11:42 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 496450



Manual Peak Response = 441680 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N11.d
Acq On : 9 Jan 2024 8:14 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1872847,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 10 11:42:58 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	191435	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 102.18%			
59) Chlorobenzene-d5	9.622	117	151518	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 104.49%			
79) 1,4-Dichlorobenzene-d4	12.306	152	80582	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 107.23%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.286	113	49461	9.831	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.31%			
43) 1,2-Dichloroethane-d4	5.810	65	53864	10.056	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.56%			
60) Toluene-d8	7.782	98	188496	9.931	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.31%			
83) 4-Bromofluorobenzene	11.100	95	70806	9.751	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	310105	84.657	ug/L	99
3) Chloromethane	1.894	50	391686	81.319	ug/L	100
4) Vinyl chloride	1.962	62	436316	84.727	ug/L	95
5) Bromomethane	2.282	94	276652	81.627	ug/L	98
6) Chloroethane	2.408	64	267203	82.009	ug/L	97
7) Trichlorofluoromethane	2.544	101	520950	83.693	ug/L	97
8) Ethyl ether	2.843	74	160374	83.058	ug/L	75
10) 1,1-Dichloroethene	3.031	96	291241	83.832	ug/L #	68
11) Carbon disulfide	3.063	76	980908	81.974	ug/L	96
12) Freon-113	3.073	101	310926	85.167	ug/L	97
13) Iodomethane	3.173	142	495958	81.211	ug/L	87
14) Acrolein	3.351	56	17130	78.572	ug/L	94
15) Methylene chloride	3.587	84	326630	79.344	ug/L	74
17) Acetone	3.624	43	49012	72.934	ug/L	98
18) trans-1,2-Dichloroethene	3.739	96	329835	82.178	ug/L	78
19) Methyl acetate	3.744	43	129396	76.477	ug/L #	79
20) Methyl tert-butyl ether	3.844	73	772247	84.449	ug/L	95
21) tert-Butyl alcohol	3.928	59	63124	402.573	ug/L #	78
22) Diisopropyl ether	4.206	45	1102907	82.778	ug/L #	91
23) 1,1-Dichloroethane	4.326	63	639428	81.591	ug/L	99
24) Halothane	4.379	117	267795	84.739	ug/L	99

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N11.d
Acq On : 9 Jan 2024 8:14 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1872847,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 10 11:42:58 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.368	53	64078	81.004	ug/L	#	82
26) Ethyl tert-butyl ether	4.552	59	1046433	84.217	ug/L		95
27) Vinyl acetate	4.557	43	639068	82.591	ug/L	#	95
28) cis-1,2-Dichloroethene	4.840	96	372143	80.510	ug/L	#	72
29) 2,2-Dichloropropane	4.945	77	524088	82.472	ug/L		100
30) Bromochloromethane	5.034	128	180354	83.675	ug/L	#	56
31) Cyclohexane	5.045	56	591081	84.796	ug/L	#	63
32) Chloroform	5.108	83	600708	80.605	ug/L		97
33) Ethyl acetate	5.213	43	214492	81.873	ug/L	#	91
34) Carbon tetrachloride	5.244	117	504008	86.641	ug/L		99
35) Tetrahydrofuran	5.254	42	54703M6	80.577	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	541350	82.881	ug/L	#	93
39) 2-Butanone	5.396	43	83290	79.668	ug/L	#	79
40) 1,1-Dichloropropene	5.433	75	466931	84.737	ug/L		95
41) Benzene	5.679	78	1320324	82.243	ug/L		91
42) tert-Amyl methyl ether	5.789	73	866806	83.370	ug/L		89
44) 1,2-Dichloroethane	5.878	62	432323	81.141	ug/L		97
47) Methyl cyclohexane	6.266	83	577296	85.963	ug/L	#	73
48) Trichloroethene	6.272	95	363522	86.529	ug/L		92
50) Dibromomethane	6.707	93	192915	82.644	ug/L		96
51) 1,2-Dichloropropane	6.812	63	360007	82.909	ug/L		96
54) Bromodichloromethane	6.880	83	477383	83.658	ug/L		99
57) 1,4-Dioxane	7.090	88	12912	860.852	ug/L	#	76
58) cis-1,3-Dichloropropene	7.572	75	560246	84.389	ug/L		94
61) Toluene	7.845	92	865064	82.842	ug/L		95
62) 4-Methyl-2-pentanone	8.269	58	84679	82.865	ug/L	#	94
63) Tetrachloroethene	8.285	166	373102	83.570	ug/L		91
65) trans-1,3-Dichloropropene	8.316	75	486031	84.268	ug/L		97
67) Ethyl methacrylate	8.510	69	320322	83.581	ug/L	#	40
68) 1,1,2-Trichloroethane	8.505	83	220474	83.826	ug/L		93
69) Chlorodibromomethane	8.715	129	359442	85.848	ug/L		97
70) 1,3-Dichloropropane	8.825	76	452382	82.665	ug/L		98
71) 1,2-Dibromoethane	8.993	107	262001	82.308	ug/L		97
72) 2-Hexanone	9.276	43	141660	81.647	ug/L		95
73) Chlorobenzene	9.643	112	1004670	82.135	ug/L		99
74) Ethylbenzene	9.685	91	1680764	82.971	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.727	131	380368	84.732	ug/L		95
76) p/m Xylene	9.874	106	1343675	167.096	ug/L		93
77) o Xylene	10.408	106	1326162	166.616	ug/L		87
78) Styrene	10.477	104	2223591	168.789	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N11.d
Acq On : 9 Jan 2024 8:14 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1872847,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 10 11:42:58 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	211566	84.960	ug/L		96
82) Isopropylbenzene	10.791	105	1704177	81.830	ug/L		95
84) Bromobenzene	11.216	156	422937	80.268	ug/L		98
85) n-Propylbenzene	11.263	91	2006195	82.131	ug/L		94
86) 1,4-Dichlorobutane	11.273	55	427980	79.074	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.342	83	297381	79.255	ug/L		99
88) 4-Ethyltoluene	11.389	105	1721198	82.184	ug/L		95
89) 2-Chlorotoluene	11.426	91	1174424M6	79.356	ug/L		
90) 1,3,5-Trimethylbenzene	11.488	105	1492375	82.716	ug/L		88
91) 1,2,3-Trichloropropane	11.483	75	243208	79.570	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.536	53	90067	84.534	ug/L	#	71
93) 4-Chlorotoluene	11.609	91	1228696	80.118	ug/L		90
94) tert-Butylbenzene	11.824	119	1273730	81.693	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	1477942	83.225	ug/L		91
98) sec-Butylbenzene	12.018	105	1864860	82.223	ug/L		95
99) p-Isopropyltoluene	12.170	119	1675211	83.326	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	841525	79.988	ug/L		99
101) 1,4-Dichlorobenzene	12.322	146	846267	79.682	ug/L		98
102) p-Diethylbenzene	12.542	119	1023643	83.460	ug/L		94
103) n-Butylbenzene	12.595	91	1390172	82.896	ug/L		96
104) 1,2-Dichlorobenzene	12.742	146	779030	79.730	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	1631871	82.248	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.518	155	49584	85.956	ug/L		90
107) 1,3,5-Trichlorobenzene	13.549	180	621818	80.731	ug/L		94
108) Hexachlorobutadiene	14.126	225	254011	81.187	ug/L		96
109) 1,2,4-Trichlorobenzene	14.147	180	540479	80.001	ug/L		98
110) Naphthalene	14.440	128	1070251	80.961	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	483344	80.567	ug/L		99

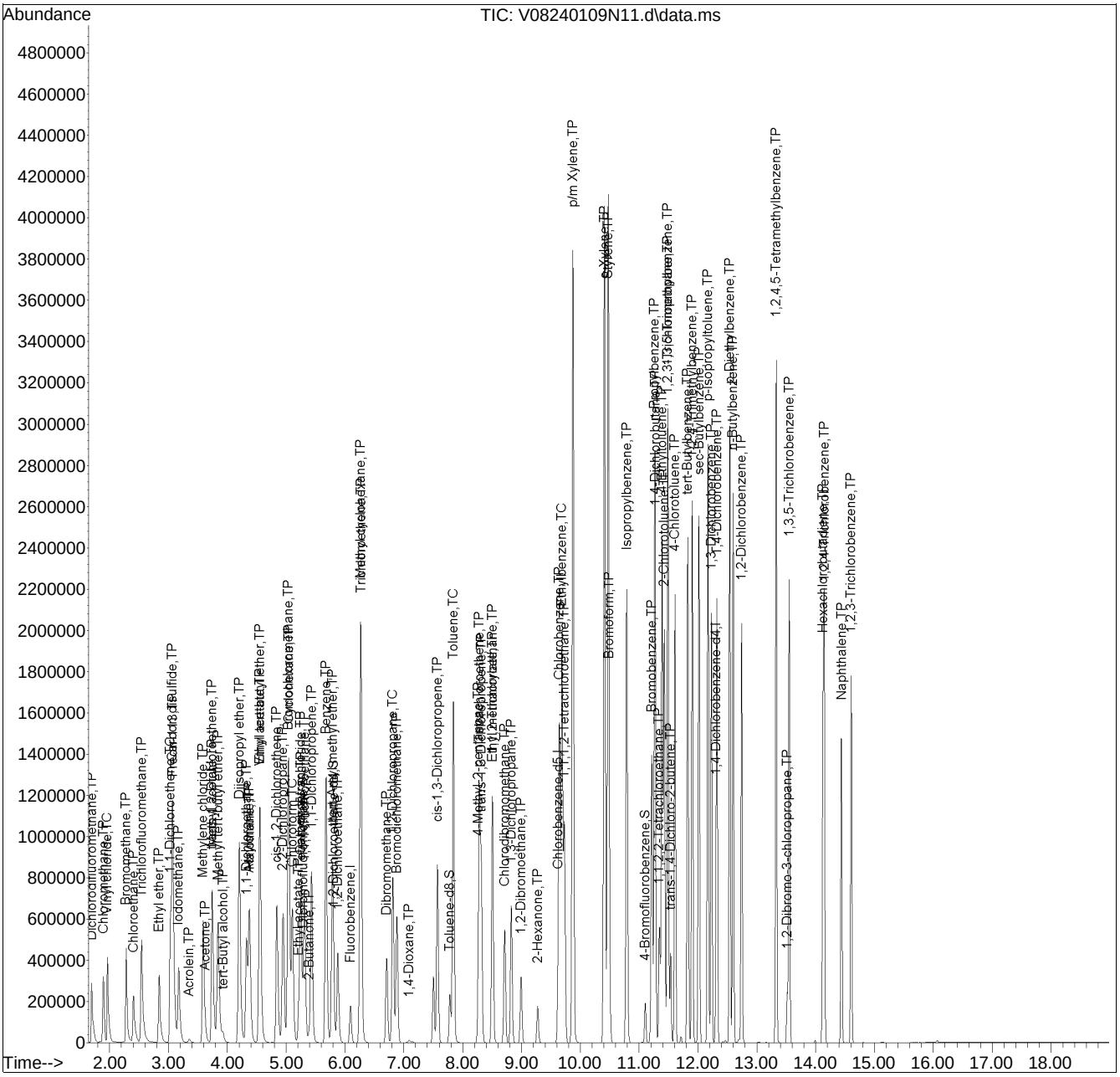
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N11.d
Acq On : 9 Jan 2024 8:14 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1872847,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 10 11:42:58 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

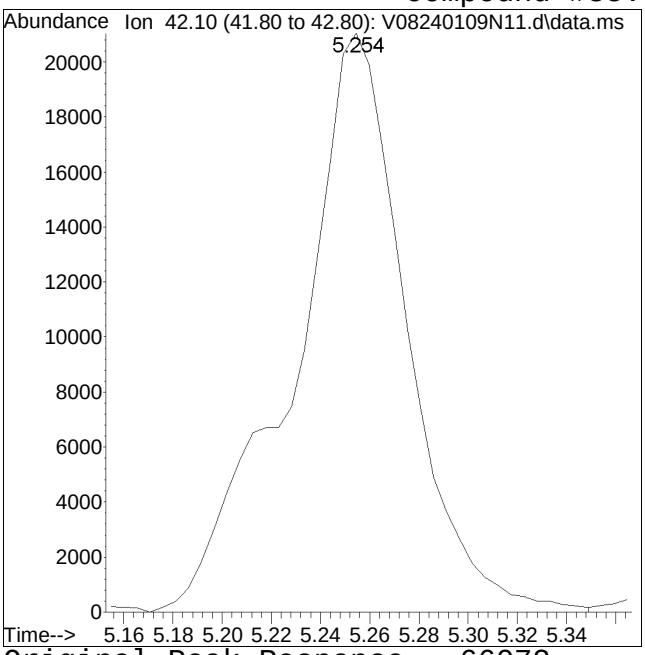
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



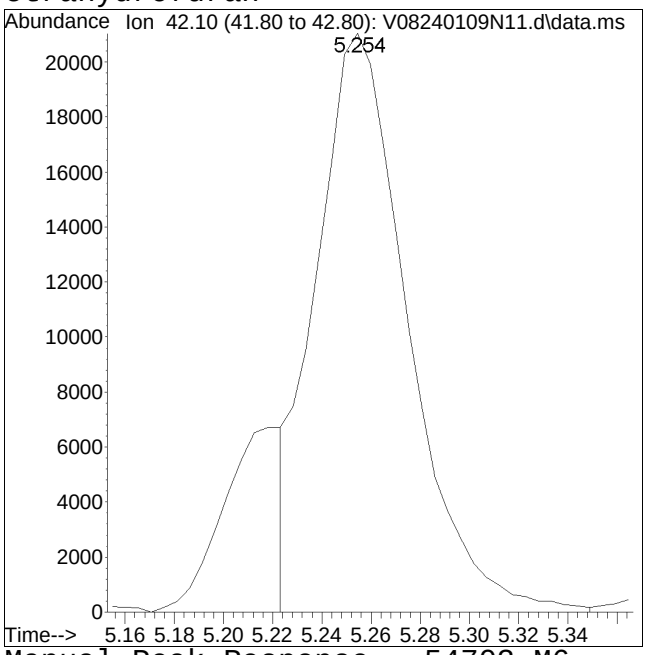
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N11.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 8:14 pm Instrument : VOA 108
Sample : I8260STD80PPB Quant Date : 1/10/2024 11:42 am

Compound #35: Tetrahydrofuran



Original Peak Response = 66072



Manual Peak Response = 54703 M6

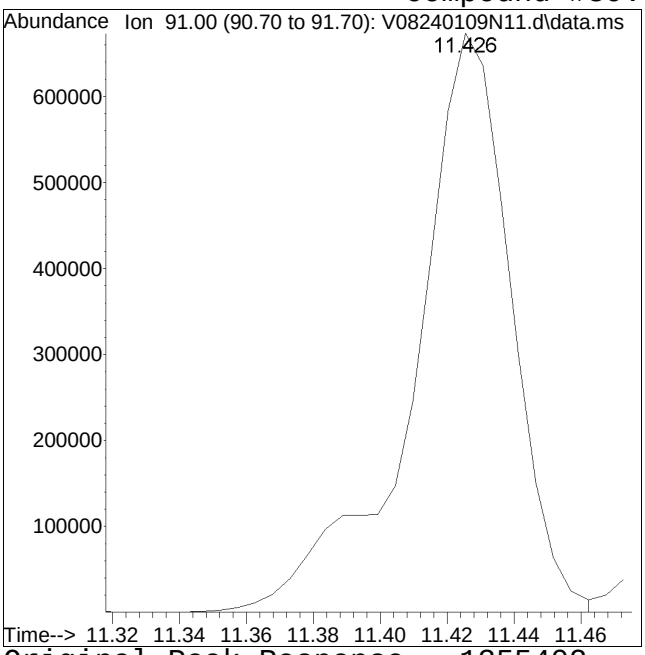
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

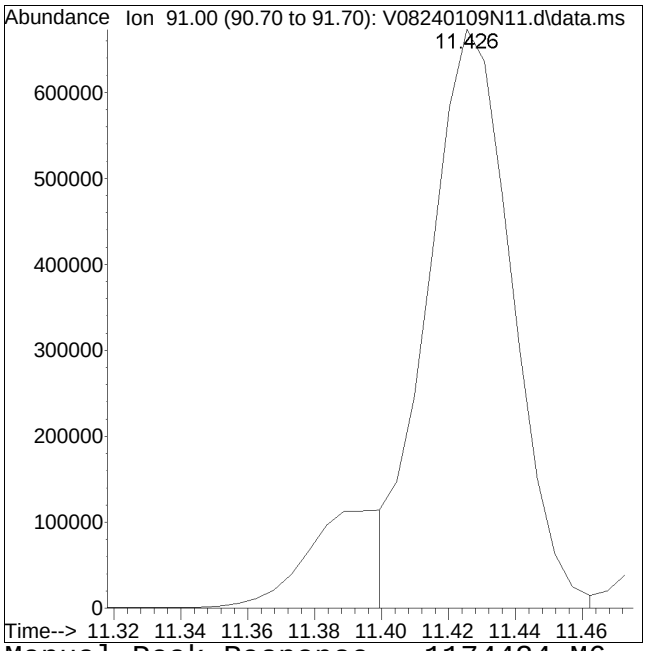
Data Path : K:\VOA108\2024\240109NICALQ
Data File : V08240109N11.d
Date Inj'd : 1/9/2024 8:14 pm
Sample : I8260STD80PPB

Method : V108_240109N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 1/10/2024 11:42 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1355402



Manual Peak Response = 1174424 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N12.d
Acq On : 9 Jan 2024 8:36 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1872847,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 10 11:43:06 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	192350	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 102.67%			
59) Chlorobenzene-d5	9.622	117	155931	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 107.53%			
79) 1,4-Dichlorobenzene-d4	12.306	152	83286	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 110.82%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.286	113	50041	9.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.99%			
43) 1,2-Dichloroethane-d4	5.805	65	53726	9.983	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.83%			
60) Toluene-d8	7.782	98	189578	9.705	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.05%			
83) 4-Bromofluorobenzene	11.101	95	72092	9.606	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.695	85	460019	124.986	ug/L	100
3) Chloromethane	1.894	50	587671	121.428	ug/L	100
4) Vinyl chloride	1.962	62	651748	125.959	ug/L	95
5) Bromomethane	2.282	94	420424	123.457	ug/L	98
6) Chloroethane	2.402	64	403704	123.314	ug/L	97
7) Trichlorofluoromethane	2.544	101	784461	125.428	ug/L	97
8) Ethyl ether	2.843	74	247301	127.468	ug/L	73
10) 1,1-Dichloroethene	3.032	96	447563	128.215	ug/L #	67
11) Carbon disulfide	3.063	76	1505824	125.242	ug/L	96
12) Freon-113	3.073	101	472491	128.806	ug/L	97
13) Iodomethane	3.173	142	764619	124.607	ug/L	87
14) Acrolein	3.351	56	28605	130.582	ug/L	94
15) Methylene chloride	3.587	84	502352	121.450	ug/L	74
17) Acetone	3.624	43	76571	113.402	ug/L	98
18) trans-1,2-Dichloroethene	3.739	96	509217	126.267	ug/L	78
19) Methyl acetate	3.745	43	201139	118.314	ug/L #	79
20) Methyl tert-butyl ether	3.844	73	1194690	130.023	ug/L	96
21) tert-Butyl alcohol	3.923	59	103604	657.591	ug/L #	78
22) Diisopropyl ether	4.201	45	1694088	126.544	ug/L #	91
23) 1,1-Dichloroethane	4.327	63	982114	124.722	ug/L	99
24) Halothane	4.379	117	410676	129.333	ug/L	99

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N12.d
Acq On : 9 Jan 2024 8:36 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1872847,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 10 11:43:06 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.368	53	99669	125.397	ug/L	#	83
26) Ethyl tert-butyl ether	4.552	59	1621718	129.896	ug/L		95
27) Vinyl acetate	4.557	43	979354	125.967	ug/L	#	94
28) cis-1,2-Dichloroethene	4.840	96	575555	123.923	ug/L	#	72
29) 2,2-Dichloropropane	4.945	77	788418	123.478	ug/L		100
30) Bromochloromethane	5.034	128	279585	129.095	ug/L	#	55
31) Cyclohexane	5.045	56	888640	126.877	ug/L	#	63
32) Chloroform	5.108	83	920944	122.987	ug/L		97
33) Ethyl acetate	5.213	43	325941	123.822	ug/L	#	92
34) Carbon tetrachloride	5.244	117	770576	131.835	ug/L		98
35) Tetrahydrofuran	5.255	42	82687M6	121.218	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	823955	125.548	ug/L	#	93
39) 2-Butanone	5.396	43	127161	121.053	ug/L	#	86
40) 1,1-Dichloropropene	5.433	75	710620	128.347	ug/L		94
41) Benzene	5.679	78	2027362	125.684	ug/L		91
42) tert-Amyl methyl ether	5.789	73	1344731	128.722	ug/L		89
44) 1,2-Dichloroethane	5.878	62	659409	123.173	ug/L		97
47) Methyl cyclohexane	6.266	83	886082	131.316	ug/L	#	73
48) Trichloroethene	6.272	95	564147	133.645	ug/L		92
50) Dibromomethane	6.707	93	299173	127.555	ug/L		96
51) 1,2-Dichloropropane	6.812	63	551728	126.457	ug/L		96
54) Bromodichloromethane	6.880	83	731647	127.606	ug/L		99
57) 1,4-Dioxane	7.095	88	19924	1322.028	ug/L	#	75
58) cis-1,3-Dichloropropene	7.572	75	859337	128.826	ug/L		93
61) Toluene	7.845	92	1340650	124.752	ug/L		95
62) 4-Methyl-2-pentanone	8.269	58	131799	125.326	ug/L	#	95
63) Tetrachloroethene	8.285	166	580745	126.397	ug/L		91
65) trans-1,3-Dichloropropene	8.316	75	750805	126.490	ug/L		96
67) Ethyl methacrylate	8.510	69	493299	125.073	ug/L	#	39
68) 1,1,2-Trichloroethane	8.505	83	338804	125.170	ug/L		93
69) Chlorodibromomethane	8.715	129	559179	129.773	ug/L		97
70) 1,3-Dichloropropane	8.825	76	693964	123.222	ug/L		98
71) 1,2-Dibromoethane	8.993	107	405681	123.838	ug/L		97
72) 2-Hexanone	9.276	43	216306	121.141	ug/L		95
73) Chlorobenzene	9.643	112	1555695	123.584	ug/L		99
74) Ethylbenzene	9.690	91	2570452	123.299	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.727	131	587892	127.254	ug/L		95
76) p/m Xylene	9.874	106	2061911	249.157	ug/L		93
77) o Xylene	10.414	106	2028205	247.608	ug/L		87
78) Styrene	10.477	104	3380065	249.314	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N12.d
Acq On : 9 Jan 2024 8:36 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1872847,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 10 11:43:06 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.498	173	328691	127.709	ug/L		96
82) Isopropylbenzene	10.791	105	2607543	121.142	ug/L		94
84) Bromobenzene	11.216	156	647782	118.949	ug/L		98
85) n-Propylbenzene	11.263	91	3034336	120.189	ug/L		93
86) 1,4-Dichlorobutane	11.274	55	652427	116.629	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.342	83	452725	116.738	ug/L		99
88) 4-Ethyltoluene	11.394	105	2621501	121.108	ug/L		95
89) 2-Chlorotoluene	11.426	91	1796293M6	117.435	ug/L		
90) 1,3,5-Trimethylbenzene	11.489	105	2265737	121.503	ug/L		88
91) 1,2,3-Trichloropropane	11.483	75	371139	117.483	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.536	53	136957	124.370	ug/L	#	70
93) 4-Chlorotoluene	11.609	91	1870267	117.992	ug/L		90
94) tert-Butylbenzene	11.824	119	1935094	120.081	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	2226808	121.323	ug/L		91
98) sec-Butylbenzene	12.018	105	2792442	119.124	ug/L		95
99) p-Isopropyltoluene	12.170	119	2509995	120.795	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	1281486	117.853	ug/L		98
101) 1,4-Dichlorobenzene	12.322	146	1285479	117.107	ug/L		98
102) p-Diethylbenzene	12.542	119	1550141	122.283	ug/L		94
103) n-Butylbenzene	12.600	91	2086042	120.352	ug/L		96
104) 1,2-Dichlorobenzene	12.742	146	1179289	116.777	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	2485229	121.191	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.518	155	76479	128.275	ug/L		91
107) 1,3,5-Trichlorobenzene	13.549	180	950990	119.459	ug/L		95
108) Hexachlorobutadiene	14.126	225	386715	119.589	ug/L		96
109) 1,2,4-Trichlorobenzene	14.147	180	834524	119.515	ug/L		98
110) Naphthalene	14.435	128	1632183	119.460	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	742831	119.800	ug/L		99

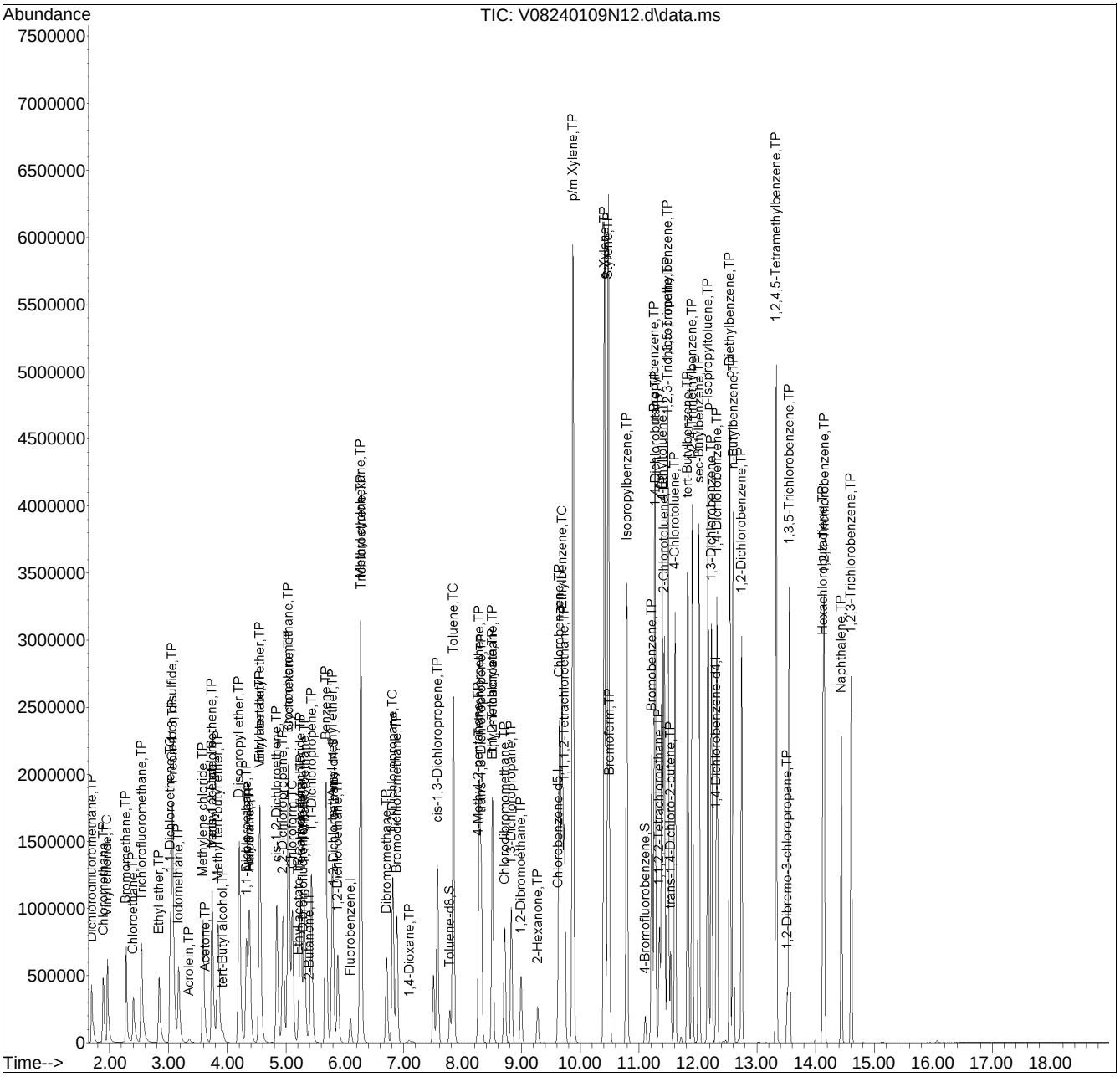
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N12.d
Acq On : 9 Jan 2024 8:36 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1872847,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 10 11:43:06 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

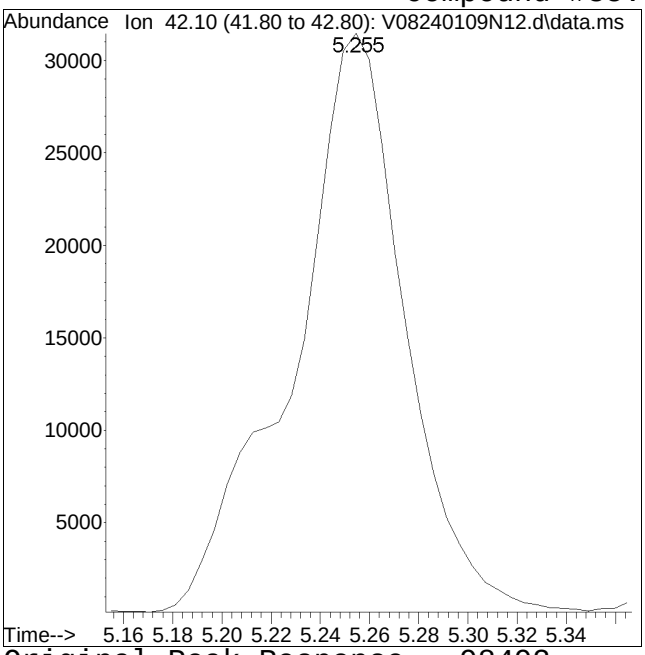
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



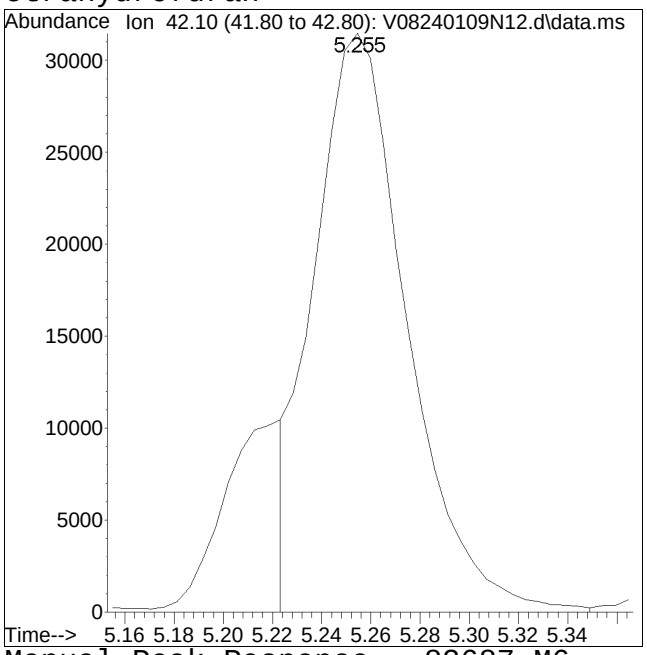
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N12.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 8:36 pm Instrument : VOA 108
Sample : I8260STD120PPB Quant Date : 1/10/2024 11:43 am

Compound #35: Tetrahydrofuran



Original Peak Response = 98492



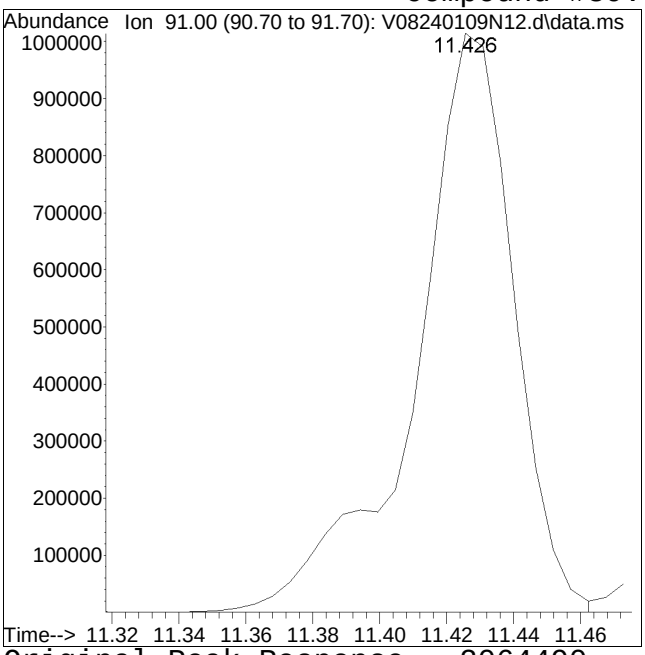
Manual Peak Response = 82687 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

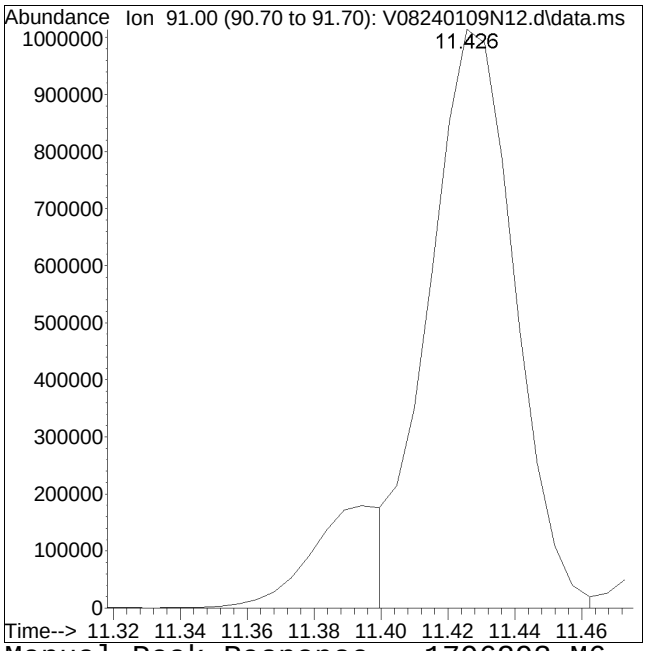
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N12.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 8:36 pm Instrument : VOA 108
Sample : I8260STD120PPB Quant Date : 1/10/2024 11:43 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 2064490



Manual Peak Response = 1796293 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N13.d
Acq On : 9 Jan 2024 8:58 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1872847,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 10 11:43:14 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	192439	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 102.72%			
59) Chlorobenzene-d5	9.627	117	158417	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 109.25%			
79) 1,4-Dichlorobenzene-d4	12.306	152	83129	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 110.62%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.286	113	50571	9.999	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.99%			
43) 1,2-Dichloroethane-d4	5.810	65	55507	10.309	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.09%			
60) Toluene-d8	7.782	98	189875	9.568	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.68%			
83) 4-Bromofluorobenzene	11.106	95	72307	9.653	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.53%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	787628	213.897	ug/L	100
3) Chloromethane	1.894	50	997062	205.924	ug/L	100
4) Vinyl chloride	1.962	62	1096983	211.908	ug/L	95
5) Bromomethane	2.282	94	721098	211.651	ug/L	98
6) Chloroethane	2.402	64	674624	205.974	ug/L	97
7) Trichlorofluoromethane	2.544	101	1334642	213.299	ug/L	97
8) Ethyl ether	2.843	74	415704	214.170	ug/L	73
10) 1,1-Dichloroethene	3.031	96	772265	221.132	ug/L #	66
11) Carbon disulfide	3.063	76	2583832	214.803	ug/L	96
12) Freon-113	3.073	101	815794	222.291	ug/L	96
13) Iodomethane	3.173	142	1269552	206.799	ug/L	87
14) Acrolein	3.351	56	53712	245.082	ug/L	94
15) Methylene chloride	3.587	84	856142	206.888	ug/L	73
17) Acetone	3.624	43	129710	192.012	ug/L	99
18) trans-1,2-Dichloroethene	3.744	96	871532	216.008	ug/L	77
19) Methyl acetate	3.744	43	342814	201.557	ug/L #	78
20) Methyl tert-butyl ether	3.844	73	2024763	220.262	ug/L	95
21) tert-Butyl alcohol	3.923	59	165868	1052.304	ug/L #	78
22) Diisopropyl ether	4.206	45	2840827	212.105	ug/L #	91
23) 1,1-Dichloroethane	4.326	63	1653762	209.919	ug/L	99
24) Halothane	4.379	117	708321	222.966	ug/L	99

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N13.d
Acq On : 9 Jan 2024 8:58 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1872847,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 10 11:43:14 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.368	53	170042	213.837	ug/L	#	83
26) Ethyl tert-butyl ether	4.552	59	2742558	219.571	ug/L		95
27) Vinyl acetate	4.557	43	1653898	212.630	ug/L	#	94
28) cis-1,2-Dichloroethene	4.840	96	979196	210.734	ug/L	#	71
29) 2,2-Dichloropropane	4.950	77	1331485	208.434	ug/L		99
30) Bromochloromethane	5.034	128	468265	216.117	ug/L	#	54
31) Cyclohexane	5.045	56	1503963	214.632	ug/L	#	62
32) Chloroform	5.102	83	1550111	206.913	ug/L		97
33) Ethyl acetate	5.213	43	546599	207.552	ug/L	#	92
34) Carbon tetrachloride	5.244	117	1318833	225.530	ug/L		98
35) Tetrahydrofuran	5.254	42	144003M6	211.009	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	1400185	213.251	ug/L	#	93
39) 2-Butanone	5.396	43	213438	203.091	ug/L	#	79
40) 1,1-Dichloropropene	5.433	75	1207019	217.903	ug/L		94
41) Benzene	5.679	78	3426318	212.312	ug/L		91
42) tert-Amyl methyl ether	5.789	73	2279987	218.148	ug/L		89
44) 1,2-Dichloroethane	5.878	62	1110376	207.314	ug/L		97
47) Methyl cyclohexane	6.266	83	1534132	227.250	ug/L	#	72
48) Trichloroethene	6.272	95	972476	230.271	ug/L		92
50) Dibromomethane	6.707	93	507786	216.399	ug/L		96
51) 1,2-Dichloropropane	6.812	63	934135	214.007	ug/L		96
54) Bromodichloromethane	6.880	83	1243427	216.764	ug/L		99
57) 1,4-Dioxane	7.090	88	29370	1947.902	ug/L	#	76
58) cis-1,3-Dichloropropene	7.572	75	1464316	219.418	ug/L		93
61) Toluene	7.845	92	2285542	209.340	ug/L		95
62) 4-Methyl-2-pentanone	8.269	58	223158	208.868	ug/L	#	96
63) Tetrachloroethene	8.285	166	1008759	216.108	ug/L		90
65) trans-1,3-Dichloropropene	8.316	75	1269725	210.557	ug/L		96
67) Ethyl methacrylate	8.510	69	837721	209.066	ug/L	#	38
68) 1,1,2-Trichloroethane	8.505	83	578283	210.293	ug/L		93
69) Chlorodibromomethane	8.715	129	959041	219.080	ug/L		97
70) 1,3-Dichloropropane	8.830	76	1171413	204.735	ug/L		98
71) 1,2-Dibromoethane	8.993	107	691953	207.911	ug/L		98
72) 2-Hexanone	9.276	43	362017	199.564	ug/L		95
73) Chlorobenzene	9.648	112	2652795	207.430	ug/L		92
74) Ethylbenzene	9.690	91	4382661	206.927	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.732	131	1007719	214.705	ug/L		95
76) p/m Xylene	9.879	106	3519357	418.598	ug/L		92
77) o Xylene	10.414	106	3446460	414.149	ug/L		87
78) Styrene	10.477	104	5667707	411.491	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N13.d
Acq On : 9 Jan 2024 8:58 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1872847,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 10 11:43:14 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.497	173	560393	218.145	ug/L		96
82) Isopropylbenzene	10.791	105	4398753	204.744	ug/L		94
84) Bromobenzene	11.216	156	1108960	204.017	ug/L		98
85) n-Propylbenzene	11.268	91	5078770	201.548	ug/L		93
86) 1,4-Dichlorobutane	11.273	55	1094275	195.984	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.347	83	761985	196.854	ug/L		99
88) 4-Ethyltoluene	11.394	105	4385185	202.969	ug/L		94
89) 2-Chlorotoluene	11.431	91	3051650M6	199.883	ug/L		
90) 1,3,5-Trimethylbenzene	11.494	105	3793369	203.809	ug/L		88
91) 1,2,3-Trichloropropane	11.483	75	629700	199.707	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.536	53	231971	211.049	ug/L	#	72
93) 4-Chlorotoluene	11.614	91	3150368	199.127	ug/L		89
94) tert-Butylbenzene	11.829	119	3241716	201.543	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	3732308	203.731	ug/L		90
98) sec-Butylbenzene	12.018	105	4648982	198.698	ug/L		94
99) p-Isopropyltoluene	12.170	119	4193570	202.199	ug/L		94
100) 1,3-Dichlorobenzene	12.233	146	2156458	198.695	ug/L		99
101) 1,4-Dichlorobenzene	12.322	146	2155844	196.768	ug/L		98
102) p-Diethylbenzene	12.542	119	2635091	208.262	ug/L		94
103) n-Butylbenzene	12.600	91	3489975	201.730	ug/L		95
104) 1,2-Dichlorobenzene	12.742	146	1998028	198.224	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	4172274	203.844	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.517	155	130391	219.113	ug/L		91
107) 1,3,5-Trichlorobenzene	13.554	180	1609450	202.553	ug/L		95
108) Hexachlorobutadiene	14.126	225	652845	202.269	ug/L		96
109) 1,2,4-Trichlorobenzene	14.147	180	1426999	204.750	ug/L		98
110) Naphthalene	14.440	128	2768439	203.006	ug/L		100
111) 1,2,3-Trichlorobenzene	14.608	180	1258729	203.386	ug/L		99

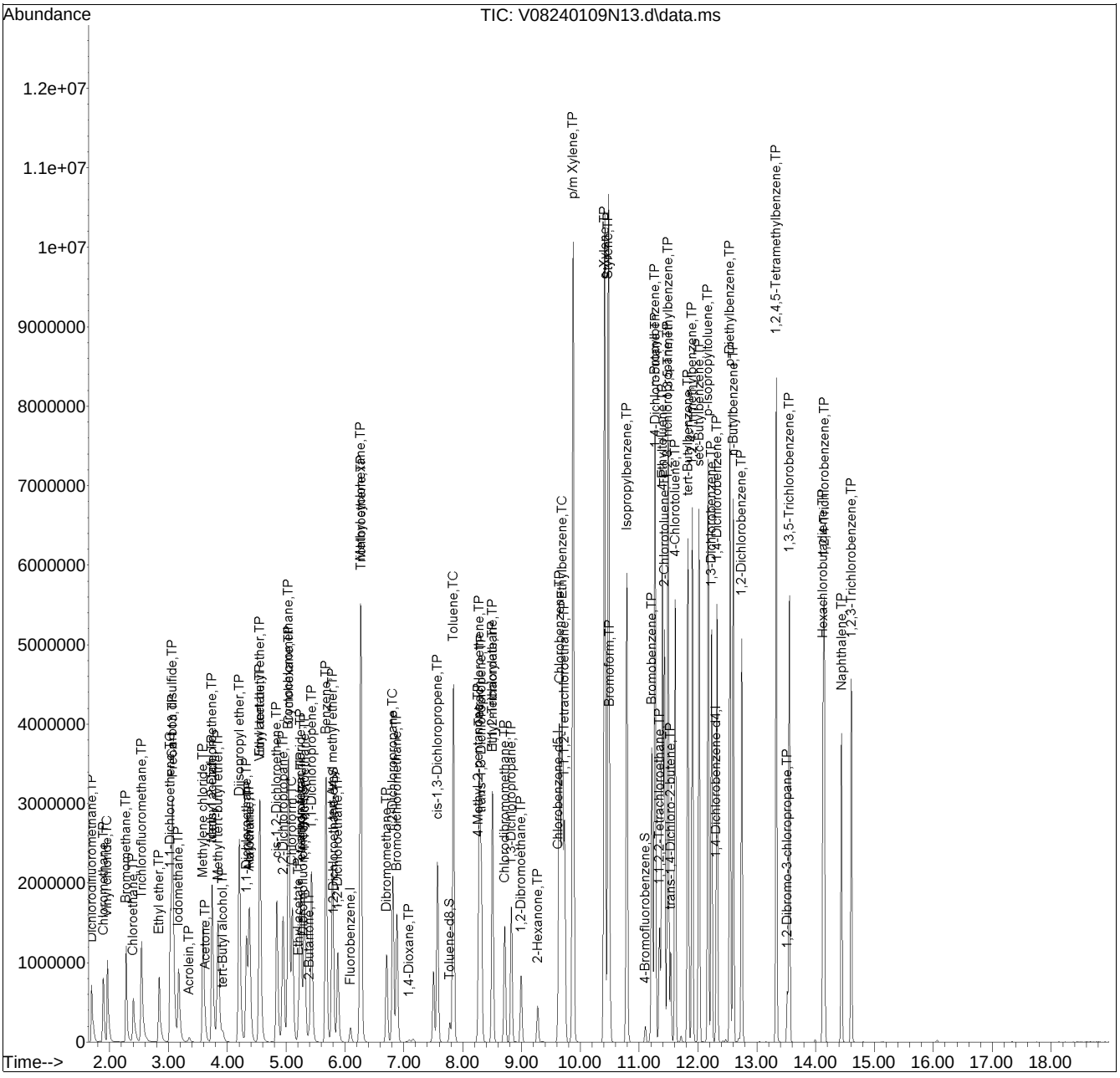
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N13.d
Acq On : 9 Jan 2024 8:58 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1872847,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 10 11:43:14 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:41:45 2024
Response via : Initial Calibration

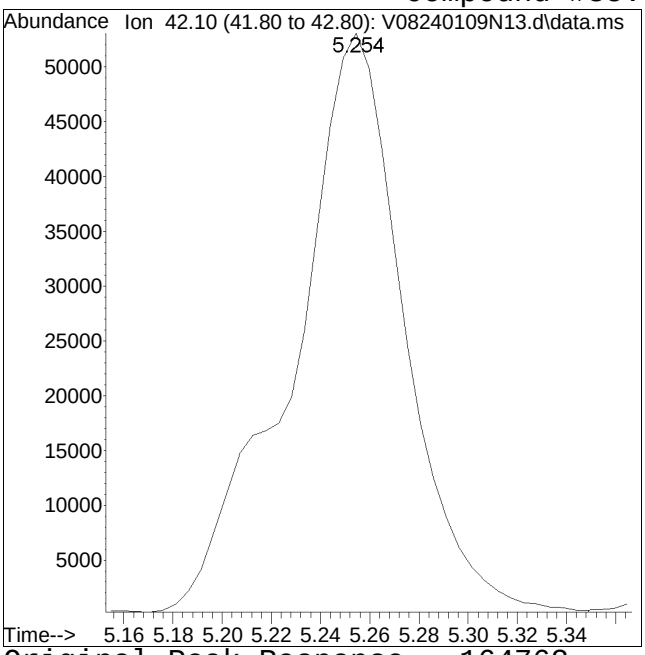
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



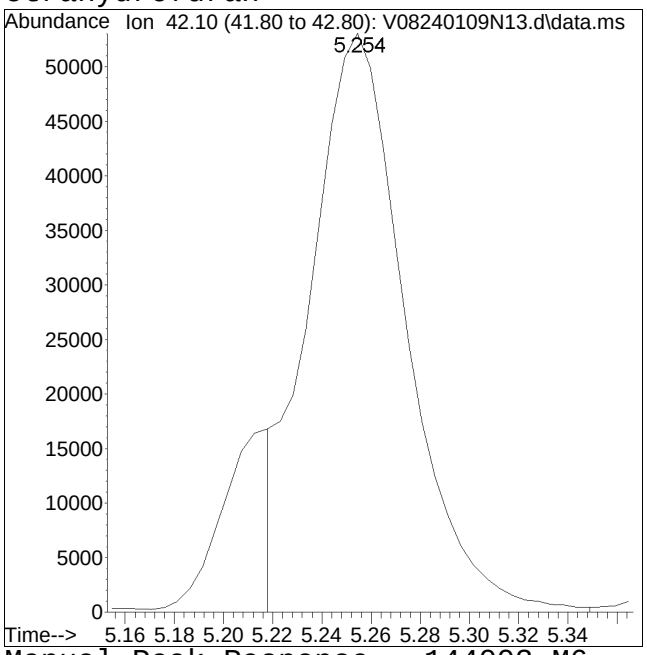
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N13.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 8:58 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 1/10/2024 11:43 am

Compound #35: Tetrahydrofuran



Original Peak Response = 164762



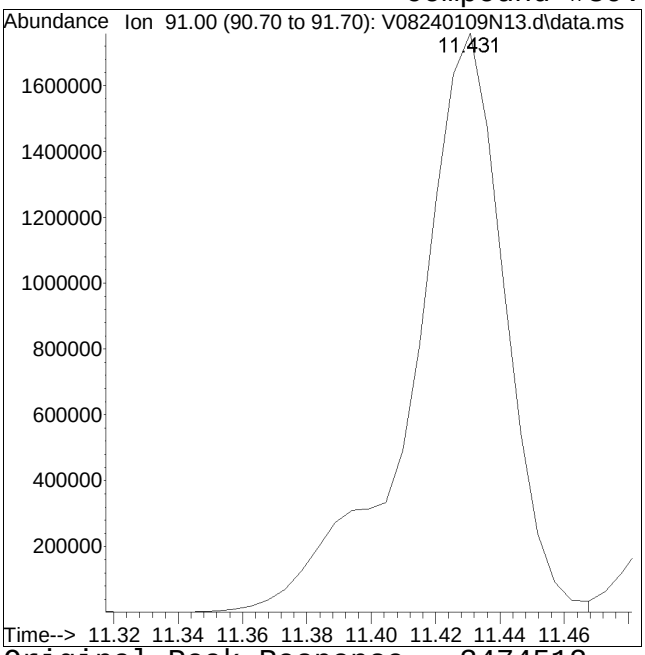
Manual Peak Response = 144003 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

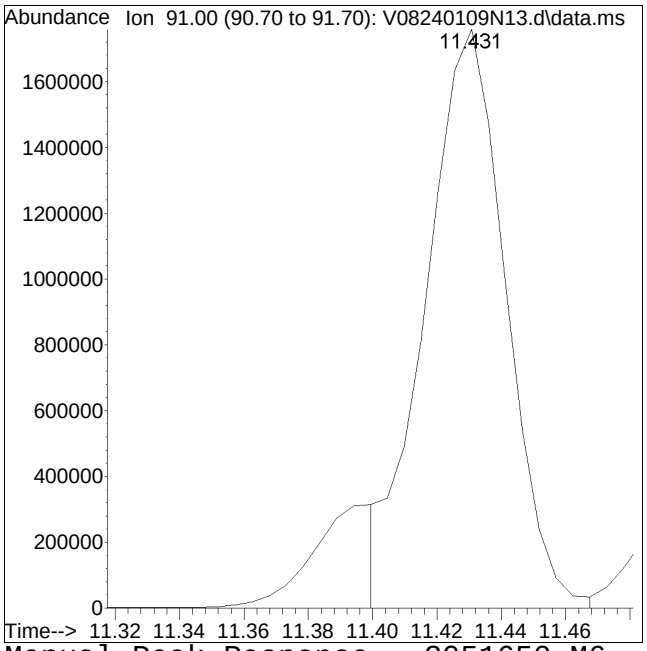
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N13.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 8:58 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 1/10/2024 11:43 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3474512



Manual Peak Response = 3051650 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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	I	Fluorobenzene	1.000	1.000	0.0	97	0.00
2	TP	Dichlorodifluoromethane	0.191	0.230	-20.4#	113	0.00
3	TP	Chloromethane	0.252	0.267	-6.0	101	0.00
4	TC	Vinyl chloride	0.269	0.293	-8.9	101	0.00
5	TP	Bromomethane	0.177	0.180	-1.7	102	0.00
6	TP	Chloroethane	0.170	0.183	-7.6	101	0.00
7	TP	Trichlorofluoromethane	0.325	0.370	-13.8	107	0.00
8	TP	Ethyl ether	0.101	0.117	-15.8	114	0.00
10	TC	1,1-Dichloroethene	0.181	0.186	-2.8	99	0.00
11	TP	Carbon disulfide	0.625	0.506	19.0	80	0.00
12	TP	Freon-113	0.191	0.197	-3.1	98	0.00
13	TP	Iodomethane	0.319	0.366	-14.7	112	0.00
14	TP	Acrolein	0.011	0.012	-9.1	106	0.00
15	TP	Methylene chloride	0.215	0.220	-2.3	102	0.00
17	TP	Acetone	0.035	0.035	0.0	102	0.00
18	TP	trans-1,2-Dichloroethene	0.210	0.218	-3.8	101	0.00
19	TP	Methyl acetate	0.088	0.090	-2.3	103	0.00
20	TP	Methyl tert-butyl ether	0.478	0.467	2.3	100	0.00
21	TP	tert-Butyl alcohol	0.00819	0.00730#	10.9	90	0.00
22	TP	Diisopropyl ether	0.696	0.650	6.6	94	0.00
23	TP	1,1-Dichloroethane	0.409	0.417	-2.0	99	0.00
24	TP	Halothane	0.165	0.173	-4.8	100	0.00
25	TP	Acrylonitrile	0.041	0.046	-12.2	111	0.00
26	TP	Ethyl tert-butyl ether	0.649	0.602	7.2	95	0.00
27	TP	Vinyl acetate	0.404	0.260	35.6#	61	0.00
28	TP	cis-1,2-Dichloroethene	0.241	0.243	-0.8	99	0.00
29	TP	2,2-Dichloropropane	0.332	0.315	5.1	92	0.00
30	TP	Bromochloromethane	0.113	0.116	-2.7	102	0.00
31	TP	Cyclohexane	0.364	0.351	3.6	93	0.00
32	TC	Chloroform	0.389	0.408	-4.9	102	0.00
33	TP	Ethyl acetate	0.137	0.138	-0.7	102	0.00
34	TP	Carbon tetrachloride	0.304	0.321	-5.6	100	0.00
35	TP	Tetrahydrofuran	0.035	0.038	-8.6	107	0.00
36	S	Dibromofluoromethane	0.263	0.263	0.0	97	0.00
37	TP	1,1,1-Trichloroethane	0.341	0.356	-4.4	100	0.00
39	TP	2-Butanone	0.055	0.055	0.0	102	0.00
40	TP	1,1-Dichloropropene	0.288	0.294	-2.1	99	0.00
41	TP	Benzene	0.839	0.848	-1.1	101	0.00
42	TP	tert-Amyl methyl ether	0.543	0.502	7.6	95	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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)
43	S	1,2-Dichloroethane-d4	0.280	0.286	-2.1	97	0.00
44	TP	1,2-Dichloroethane	0.278	0.288	-3.6	103	0.00
47	TP	Methyl cyclohexane	0.351	0.338	3.7	95	0.00
48	TP	Trichloroethene	0.219	0.252	-15.1	112	0.00
50	TP	Dibromomethane	0.122	0.127	-4.1	105	0.00
51	TC	1,2-Dichloropropane	0.227	0.231	-1.8	101	0.00
54	TP	Bromodichloromethane	0.298	0.301	-1.0	101	0.00
57	TP	1,4-Dioxane	0.00078	0.00054#	30.8#	60	0.00
58	TP	cis-1,3-Dichloropropene	0.347	0.353	-1.7	104	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
60	S	Toluene-d8	1.253	1.256	-0.2	97	0.00
61	TC	Toluene	0.689	0.705	-2.3	101	0.00
62	TP	4-Methyl-2-pentanone	0.067	0.065	3.0	100	0.00
63	TP	Tetrachloroethene	0.295	0.306	-3.7	103	0.00
65	TP	trans-1,3-Dichloropropene	0.381	0.389	-2.1	104	0.00
67	TP	Ethyl methacrylate	0.253	0.270	-6.7	108	0.00
68	TP	1,1,2-Trichloroethane	0.174	0.181#	-4.0	104	0.00
69	TP	Chlorodibromomethane	0.276	0.286	-3.6	106	0.00
70	TP	1,3-Dichloropropane	0.361	0.378	-4.7	105	0.00
71	TP	1,2-Dibromoethane	0.210	0.217	-3.3	104	0.00
72	TP	2-Hexanone	0.115	0.113	1.7	102	0.00
73	TP	Chlorobenzene	0.807	0.830	-2.9	103	0.00
74	TC	Ethylbenzene	1.337	1.358	-1.6	101	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.296	0.300	-1.4	102	0.00
76	TP	p/m Xylene	0.531	0.542	-2.1	101	0.00
77	TP	o Xylene	0.525	0.524	0.2	99	0.00
78	TP	Styrene	0.869	0.877	-0.9	100	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
80	TP	Bromoform	0.309	0.309	0.0	104	0.00
82	TP	Isopropylbenzene	2.584	2.427	6.1	93	0.00
83	S	4-Bromofluorobenzene	0.901	0.888	1.4	98	0.00
84	TP	Bromobenzene	0.654	0.670	-2.4	104	0.00
85	TP	n-Propylbenzene	3.031	3.039	-0.3	100	0.00
86	TP	1,4-Dichlorobutane	0.672	0.694	-3.3	105	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.466	0.431	7.5	93	0.00
88	TP	4-Ethyltoluene	2.599	2.510	3.4	96	0.00
89	TP	2-Chlorotoluene	1.837	1.835	0.1	102	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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)
90 TP	1,3,5-Trimethylbenzene	2.239	2.217	1.0	99	0.00
91 TP	1,2,3-Trichloropropane	0.379	0.384	-1.3	102	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.132	0.132	0.0	96	0.00
93 TP	4-Chlorotoluene	1.903	1.924	-1.1	101	0.00
94 TP	tert-Butylbenzene	1.935	1.976	-2.1	101	0.00
97 TP	1,2,4-Trimethylbenzene	2.204	2.239	-1.6	102	0.00
98 TP	sec-Butylbenzene	2.815	2.841	-0.9	100	0.00
99 TP	p-Isopropyltoluene	2.495	2.514	-0.8	99	0.00
100 TP	1,3-Dichlorobenzene	1.306	1.347	-3.1	104	0.00
101 TP	1,4-Dichlorobenzene	1.318	1.340	-1.7	104	0.00
102 TP	p-Diethylbenzene	1.522	1.357	10.8	90	0.00
103 TP	n-Butylbenzene	2.081	2.214	-6.4	104	0.00
104 TP	1,2-Dichlorobenzene	1.213	1.245	-2.6	103	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.462	2.271	7.8	93	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.072	0.077	-6.9	105	0.00
107 TP	1,3,5-Trichlorobenzene	0.956	0.948	0.8	99	0.00
108 TP	Hexachlorobutadiene	0.388	0.390	-0.5	99	0.00
109 TP	1,2,4-Trichlorobenzene	0.838	0.862	-2.9	105	0.00
110 TP	Naphthalene	1.640	1.710	-4.3	106	0.00
111 TP	1,2,3-Trichlorobenzene	0.744	0.763	-2.6	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	182230	10.000	ug/L	0.00
Standard Area 1 = 187350			Recovery = 97.27%			
59) Chlorobenzene-d5	9.622	117	142067	10.000	ug/L	0.00
Standard Area 1 = 145008			Recovery = 97.97%			
79) 1,4-Dichlorobenzene-d4	12.306	152	74856	10.000	ug/L	0.00
Standard Area 1 = 75151			Recovery = 99.61%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.286	113	47836	9.988	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 99.88%		
43) 1,2-Dichloroethane-d4	5.810	65	52120	10.222	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 102.22%		
60) Toluene-d8	7.782	98	178463	10.028	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 100.28%		
83) 4-Bromofluorobenzene	11.101	95	66477	9.855	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 98.55%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.695	85	41873	12.009	ug/L	99
3) Chloromethane	1.894	50	48595	10.599	ug/L	100
4) Vinyl chloride	1.962	62	53350	10.883	ug/L	95
5) Bromomethane	2.282	94	32720	10.142	ug/L	97
6) Chloroethane	2.408	64	33282	10.731	ug/L	95
7) Trichlorofluoromethane	2.544	101	67355	11.368	ug/L	97
8) Ethyl ether	2.843	74	21345	11.613	ug/L	75
10) 1,1-Dichloroethene	3.037	96	33837	10.232	ug/L #	67
11) Carbon disulfide	3.063	76	92240	8.098	ug/L	96
12) Freon-113	3.073	101	35816	10.306	ug/L	96
13) Iodomethane	3.173	142	66760	11.484	ug/L	86
14) Acrolein	3.351	56	2171	10.461	ug/L	92
15) Methylene chloride	3.587	84	40011	10.210	ug/L	74
17) Acetone	3.629	43	6400	10.005	ug/L	94
18) trans-1,2-Dichloroethene	3.745	96	39719	10.396	ug/L	77
19) Methyl acetate	3.750	43	16473	10.228	ug/L #	84
20) Methyl tert-butyl ether	3.844	73	85106	9.777	ug/L	96
21) tert-Butyl alcohol	3.923	59	6655	44.586	ug/L #	78
22) Diisopropyl ether	4.206	45	118524	9.345	ug/L #	90
23) 1,1-Dichloroethane	4.327	63	76065	10.196	ug/L	99
24) Halothane	4.379	117	31515	10.476	ug/L	100

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.363	53	8344	11.081	ug/L	#	85
26) Ethyl tert-butyl ether	4.552	59	109640	9.270	ug/L		85
27) Vinyl acetate	4.557	43	47459	6.443	ug/L		98
28) cis-1,2-Dichloroethene	4.840	96	44276	10.063	ug/L	#	71
29) 2,2-Dichloropropane	4.950	77	57321	9.476	ug/L		100
30) Bromochloromethane	5.034	128	21161	10.313	ug/L	#	56
31) Cyclohexane	5.045	56	63901	9.630	ug/L	#	61
32) Chloroform	5.108	83	74312	10.475	ug/L		97
33) Ethyl acetate	5.213	43	25072	10.054	ug/L	#	91
34) Carbon tetrachloride	5.244	117	58407	10.548	ug/L		98
35) Tetrahydrofuran	5.260	42	6839M6	10.583	ug/L		
37) 1,1,1-Trichloroethane	5.312	97	64784	10.420	ug/L	#	93
39) 2-Butanone	5.396	43	9957	10.005	ug/L	#	90
40) 1,1-Dichloropropene	5.433	75	53654	10.229	ug/L		95
41) Benzene	5.679	78	154477	10.108	ug/L		91
42) tert-Amyl methyl ether	5.789	73	91402	9.235	ug/L		89
44) 1,2-Dichloroethane	5.878	62	52437	10.339	ug/L		97
47) Methyl cyclohexane	6.266	83	61563	9.630	ug/L	#	73
48) Trichloroethene	6.272	95	45886	11.474	ug/L		92
50) Dibromomethane	6.707	93	23144	10.416	ug/L		95
51) 1,2-Dichloropropane	6.812	63	42030	10.168	ug/L		95
54) Bromodichloromethane	6.885	83	54858	10.099	ug/L		99
57) 1,4-Dioxane	7.090	88	4902	343.328	ug/L	#	73
58) cis-1,3-Dichloropropene	7.572	75	64390	10.189	ug/L		95
61) Toluene	7.845	92	100139	10.228	ug/L		97
62) 4-Methyl-2-pentanone	8.269	58	9273	9.678	ug/L	#	91
63) Tetrachloroethene	8.285	166	43522	10.397	ug/L		90
65) trans-1,3-Dichloropropene	8.316	75	55307	10.227	ug/L		98
67) Ethyl methacrylate	8.510	69	38334	10.668	ug/L	#	41
68) 1,1,2-Trichloroethane	8.505	83	25671	10.410	ug/L		94
69) Chlorodibromomethane	8.715	129	40565	10.333	ug/L		96
70) 1,3-Dichloropropane	8.825	76	53698	10.465	ug/L		99
71) 1,2-Dibromoethane	8.993	107	30801	10.320	ug/L		98
72) 2-Hexanone	9.276	43	16107	9.901	ug/L		96
73) Chlorobenzene	9.643	112	117917	10.281	ug/L		99
74) Ethylbenzene	9.685	91	192980	10.160	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.727	131	42553	10.110	ug/L		95
76) p/m Xylene	9.874	106	154078	20.435	ug/L		93
77) o Xylene	10.408	106	148938	19.957	ug/L		87
78) Styrene	10.471	104	249237	20.178	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240109NICAL\V08240109N09.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.492	173	23163	10.013	ug/L		96
82) Isopropylbenzene	10.786	105	181667	9.390	ug/L		95
84) Bromobenzene	11.216	156	50117	10.239	ug/L		99
85) n-Propylbenzene	11.263	91	227489	10.026	ug/L		95
86) 1,4-Dichlorobutane	11.274	55	51921	10.327	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.342	83	32251	9.253	ug/L		99
88) 4-Ethyltoluene	11.389	105	187916	9.659	ug/L		95
89) 2-Chlorotoluene	11.426	91	137361M6	9.991	ug/L		
90) 1,3,5-Trimethylbenzene	11.489	105	165947	9.901	ug/L		89
91) 1,2,3-Trichloropropane	11.483	75	28729	10.118	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.536	53	9907	10.010	ug/L	#	76
93) 4-Chlorotoluene	11.609	91	144007	10.108	ug/L		90
94) tert-Butylbenzene	11.824	119	147895	10.211	ug/L		98
97) 1,2,4-Trimethylbenzene	11.903	105	167615	10.161	ug/L		91
98) sec-Butylbenzene	12.013	105	212632	10.092	ug/L		96
99) p-Isopropyltoluene	12.170	119	188185	10.076	ug/L		94
100) 1,3-Dichlorobenzene	12.228	146	100820	10.316	ug/L		97
101) 1,4-Dichlorobenzene	12.322	146	100307	10.167	ug/L		98
102) p-Diethylbenzene	12.537	119	101558	8.914	ug/L		93
103) n-Butylbenzene	12.595	91	165697	10.636	ug/L		97
104) 1,2-Dichlorobenzene	12.742	146	93164	10.264	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.329	119	169999	9.224	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.512	155	5795	10.814	ug/L		90
107) 1,3,5-Trichlorobenzene	13.549	180	70956	9.917	ug/L		94
108) Hexachlorobutadiene	14.126	225	29200	10.047	ug/L		95
109) 1,2,4-Trichlorobenzene	14.147	180	64522	10.281	ug/L		98
110) Naphthalene	14.435	128	128028	10.426	ug/L		100
111) 1,2,3-Trichlorobenzene	14.603	180	57149	10.255	ug/L		99

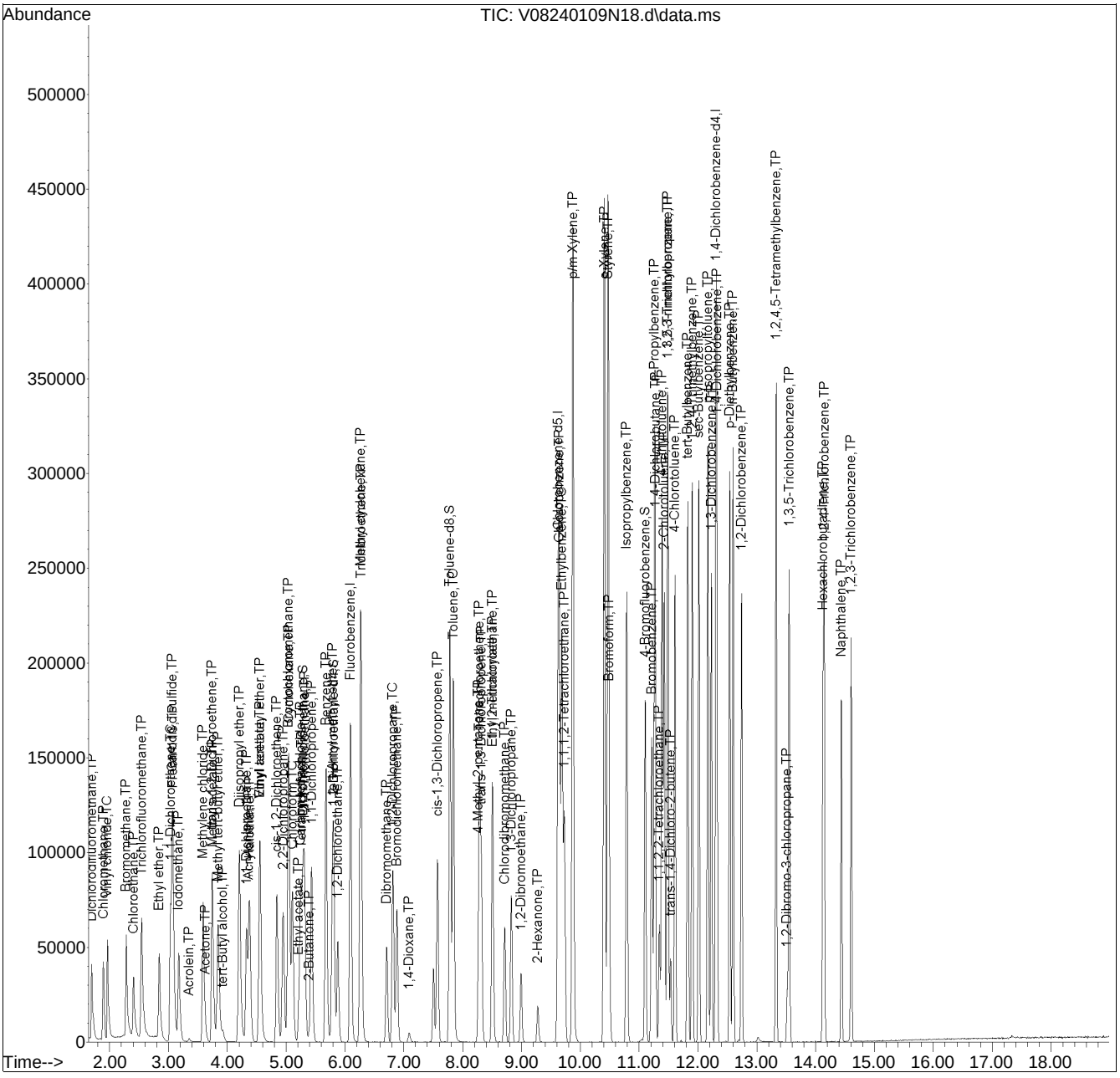
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240109NICAL\
Data File : V08240109N18.d
Acq On : 9 Jan 2024 10:49 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1872847,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 10 11:48:09 2024
Quant Method : K:\VOA108\2024\240109NICAL\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

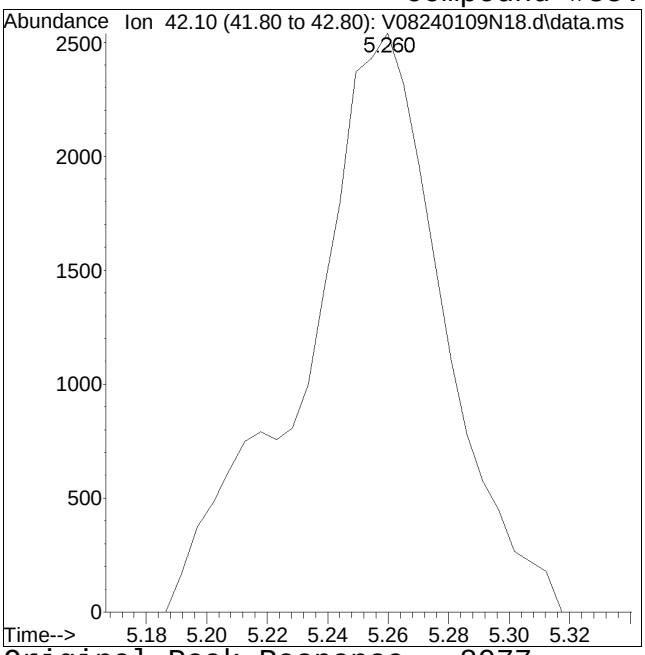
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE109N09.d•



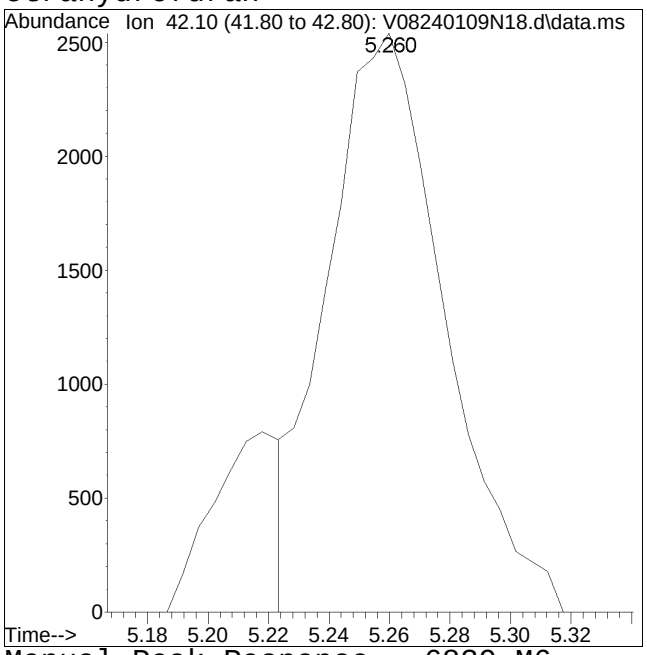
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N18.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 10:49 pm Instrument : VOA 108
Sample : C8260STD10PPB Quant Date : 1/10/2024 11:47 am

Compound #35: Tetrahydrofuran



Original Peak Response = 8077



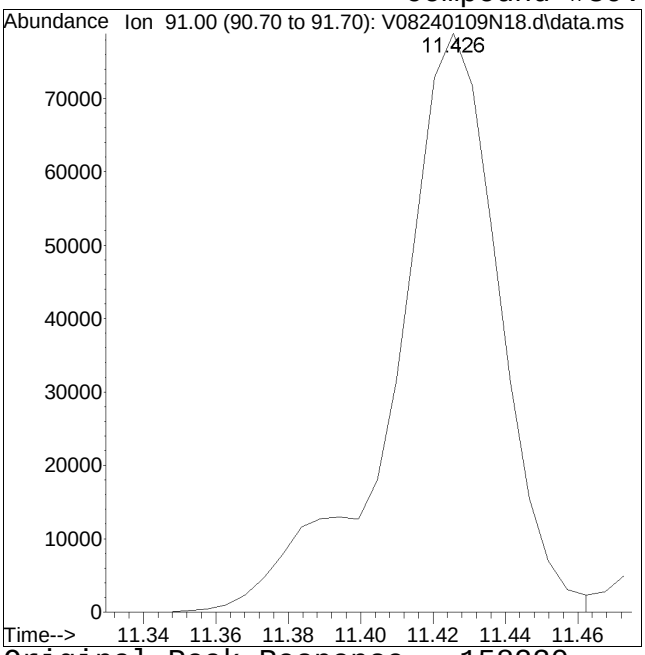
Manual Peak Response = 6839 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

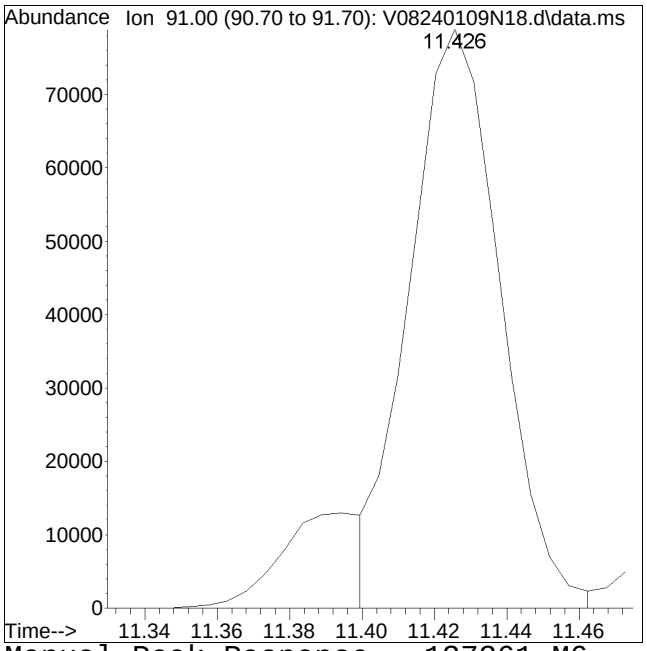
Manual Integration Report

Data Path : K:\VOA108\2024\240109NICALQMethod : V108_240109N_8260.m
Data File : V08240109N18.d Operator : VOA108:PID
Date Inj'd : 1/9/2024 10:49 pm Instrument : VOA 108
Sample : C8260STD10PPB Quant Date : 1/10/2024 11:47 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 158230



Manual Peak Response = 137361 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464		
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000		
Instrument ID	: VOA108	**Calibration Date**	: 03/05/24 17:29		
Lab File ID	: V08240305N01	**Init. Calib. Date(s)**	: 01/09/24	01/09/24	
Sample No	: WG1893240-2	**Init. Calib. Times**	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	0
Dichlorodifluoromethane	0.191	0.184	-	3.7	20	77	0
Chloromethane	0.252	0.295	-	-17.1	20	95	0
Vinyl chloride	0.269	0.248	-	7.8	20	72	0
Bromomethane	0.177	0.098	-	44.6*	20	47	0
Chloroethane	0.17	0.139	-	18.2	20	65	-.01
Trichlorofluoromethane	0.325	0.246	-	24.3*	20	60	0
Ethyl ether	0.101	0.077	-	23.8*	20	63	0
1,1-Dichloroethene	0.181	0.165	-	8.8	20	74	0
Carbon disulfide	0.625	0.568	-	9.1	20	76	0
Freon-113	0.191	0.162	-	15.2	20	69	0
Acrolein	0.011	0.021	-	-90.9*	20	158	0
Methylene chloride	0.215	0.192	-	10.7	20	76	0
Acetone	0.035	0.04	-	-14.3	20	97	0
trans-1,2-Dichloroethene	0.21	0.191	-	9	20	75	0
Methyl acetate	0.088	0.104	-	-18.2	20	100	-.01
Methyl tert-butyl ether	0.478	0.42	-	12.1	20	76	-.01
tert-Butyl alcohol	0.00819	0.01135	-	-38.6*	20	118	-.01
Diisopropyl ether	0.696	0.743	-	-6.8	20	91	-.01
1,1-Dichloroethane	0.409	0.398	-	2.7	20	80	0
Halothane	0.165	0.144	-	12.7	20	71	0
Acrylonitrile	0.041	0.047	-	-14.6	20	97	-.01
Ethyl tert-butyl ether	0.649	0.602	-	7.2	20	80	-.01
Vinyl acetate	0.404	0.396	-	2	20	79	0
cis-1,2-Dichloroethene	0.241	0.215	-	10.8	20	74	0
2,2-Dichloropropane	0.332	0.307	-	7.5	20	76	-.01
Bromochloromethane	0.113	0.098*	-	13.3	20	72	-.01
Cyclohexane	0.364	0.349	-	4.1	20	78	-.01
Chloroform	0.389	0.357	-	8.2	20	75	-.01
Ethyl acetate	0.137	0.146	-	-6.6	20	91	0
Carbon tetrachloride	0.304	0.273	-	10.2	20	72	0
Tetrahydrofuran	0.035	0.041	-	-17.1	20	99	-.01
Dibromofluoromethane	0.263	0.269	-	-2.3	20	84	-.01
1,1,1-Trichloroethane	0.341	0.302	-	11.4	20	72	-.01
2-Butanone	0.055	0.062	-	-12.7	20	97	0
1,1-Dichloropropene	0.288	0.255	-	11.5	20	73	-.01
Benzene	0.839	0.779	-	7.2	20	78	-.01
tert-Amyl methyl ether	0.543	0.444	-	18.2	20	71	-.01
1,2-Dichloroethane-d4	0.28	0.306	-	-9.3	20	87	-.01
1,2-Dichloroethane	0.278	0.261	-	6.1	20	79	0
Methyl cyclohexane	0.351	0.286	-	18.5	20	68	0
Trichloroethene	0.219	0.207	-	5.5	20	78	-.01
Dibromomethane	0.122	0.106	-	13.1	20	74	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464		
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000		
Instrument ID	: VOA108	**Calibration Date**	: 03/05/24 17:29		
Lab File ID	: V08240305N01	**Init. Calib. Date(s)**	: 01/09/24	01/09/24	
Sample No	: WG1893240-2	**Init. Calib. Times**	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.22	-	3.1	20	82	0
Bromodichloromethane	0.298	0.267*	-	10.4	20	75	-.01
1,4-Dioxane	0.00078	0.00118*	-	-51.3*	20	112	-.01
cis-1,3-Dichloropropene	0.347	0.3*	-	13.5	20	75	0
Chlorobenzene-d5	1	1	-	0	20	76	0
Toluene-d8	1.253	1.335	-	-6.5	20	80	0
Toluene	0.689	0.656	-	4.8	20	73	0
4-Methyl-2-pentanone	0.067	0.059	-	11.9	20	70	0
Tetrachloroethene	0.295	0.258	-	12.5	20	67	0
trans-1,3-Dichloropropene	0.381	0.351	-	7.9	20	73	0
Ethyl methacrylate	0.253	0.205	-	19	20	64	0
1,1,2-Trichloroethane	0.174	0.176*	-	-1.1	20	79	0
Chlorodibromomethane	0.276	0.25	-	9.4	20	72	0
1,3-Dichloropropane	0.361	0.353	-	2.2	20	76	0
1,2-Dibromoethane	0.21	0.192*	-	8.6	20	72	-.01
2-Hexanone	0.115	0.1	-	13	20	70	0
Chlorobenzene	0.807	0.75	-	7.1	20	72	0
Ethylbenzene	1.337	1.23	-	8	20	71	0
1,1,1,2-Tetrachloroethane	0.296	0.283	-	4.4	20	75	0
p/m Xylene	0.531	0.486	-	8.5	20	70	-.01
o Xylene	0.525	0.473	-	9.9	20	69	0
Styrene	0.869	0.769	-	11.5	20	68	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	67	0
Bromoform	0.309	0.285	-	7.8	20	65	0
Isopropylbenzene	2.584	2.62	-	-1.4	20	68	0
4-Bromofluorobenzene	0.901	0.974	-	-8.1	20	73	-.01
Bromobenzene	0.654	0.636	-	2.8	20	66	0
n-Propylbenzene	3.031	3.198	-	-5.5	20	71	0
1,4-Dichlorobutane	0.672	0.801	-	-19.2	20	82	0
1,1,2,2-Tetrachloroethane	0.466	0.521	-	-11.8	20	76	0
4-Ethyltoluene	2.599	2.693	-	-3.6	20	69	0
2-Chlorotoluene	1.837	2.001	-	-8.9	20	75	0
1,3,5-Trimethylbenzene	2.239	2.334	-	-4.2	20	70	-.01
1,2,3-Trichloropropane	0.379	0.416	-	-9.8	20	74	0
trans-1,4-Dichloro-2-buten	0.132	0.148	-	-12.1	20	72	-.01
4-Chlorotoluene	1.903	2.007	-	-5.5	20	71	0
tert-Butylbenzene	1.935	1.948	-	-0.7	20	67	0
1,2,4-Trimethylbenzene	2.204	2.267	-	-2.9	20	69	0
sec-Butylbenzene	2.815	2.884	-	-2.5	20	68	0
p-Isopropyltoluene	2.495	2.495	-	0	20	66	-.01
1,3-Dichlorobenzene	1.306	1.305	-	0.1	20	68	0
1,4-Dichlorobenzene	1.318	1.308	-	0.8	20	68	0
p-Diethylbenzene	1.522	1.5	-	1.4	20	67	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2411464		
Project Name	: PARKCHESTER CROSSING	**Project Number**	: 2530.0001Y000		
Instrument ID	: VOA108	**Calibration Date**	: 03/05/24 17:29		
Lab File ID	: V08240305N01	**Init. Calib. Date(s)**	: 01/09/24	01/09/24	
Sample No	: WG1893240-2	**Init. Calib. Times**	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.081	2.213	-	-6.3	20	70	0
1,2-Dichlorobenzene	1.213	1.208	-	0.4	20	67	0
1,2,4,5-Tetramethylbenzene	2.462	2.33	-	5.4	20	64	0
1,2-Dibromo-3-chloropropan	0.072	0.068	-	5.6	20	62	0
1,3,5-Trichlorobenzene	0.956	0.901	-	5.8	20	63	0
Hexachlorobutadiene	0.388	0.348	-	10.3	20	59	0
1,2,4-Trichlorobenzene	0.838	0.732	-	12.6	20	60	0
Naphthalene	1.64	1.454	-	11.3	20	60	0
1,2,3-Trichlorobenzene	0.744	0.649	-	12.8	20	60	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2	TP	Dichlorodifluoromethane	0.191	0.184	3.7	77	0.00
3	TP	Chloromethane	0.252	0.295	-17.1	95	0.00
4	TC	Vinyl chloride	0.269	0.248	7.8	72	0.00
5	TP	Bromomethane	0.177	0.098	44.6#	47#	0.00
6	TP	Chloroethane	0.170	0.139	18.2	65	-0.01
7	TP	Trichlorofluoromethane	0.325	0.246	24.3#	60	0.00
8	TP	Ethyl ether	0.101	0.077	23.8#	63	0.00
10	TC	1,1-Dichloroethene	0.181	0.165	8.8	74	0.00
11	TP	Carbon disulfide	0.625	0.568	9.1	76	0.00
12	TP	Freon-113	0.191	0.162	15.2	69	0.00
14	TP	Acrolein	0.011	0.021	-90.9#	158	0.00
15	TP	Methylene chloride	0.215	0.192	10.7	76	0.00
17	TP	Acetone	0.035	0.040	-14.3	97	0.00
18	TP	trans-1,2-Dichloroethene	0.210	0.191	9.0	75	0.00
19	TP	Methyl acetate	0.088	0.104	-18.2	100	-0.01
20	TP	Methyl tert-butyl ether	0.478	0.420	12.1	76	-0.01
21	TP	tert-Butyl alcohol	0.00819	0.01135	-38.6#	118	-0.01
22	TP	Diisopropyl ether	0.696	0.743	-6.8	91	-0.01
23	TP	1,1-Dichloroethane	0.409	0.398	2.7	80	0.00
24	TP	Halothane	0.165	0.144	12.7	71	0.00
25	TP	Acrylonitrile	0.041	0.047	-14.6	97	-0.01
26	TP	Ethyl tert-butyl ether	0.649	0.602	7.2	80	-0.01
27	TP	Vinyl acetate	0.404	0.396	2.0	79	0.00
28	TP	cis-1,2-Dichloroethene	0.241	0.215	10.8	74	0.00
29	TP	2,2-Dichloropropane	0.332	0.307	7.5	76	-0.01
30	TP	Bromochloromethane	0.113	0.098#	13.3	72	-0.01
31	TP	Cyclohexane	0.364	0.349	4.1	78	-0.01
32	TC	Chloroform	0.389	0.357	8.2	75	-0.01
33	TP	Ethyl acetate	0.137	0.146	-6.6	91	0.00
34	TP	Carbon tetrachloride	0.304	0.273	10.2	72	0.00
35	TP	Tetrahydrofuran	0.035	0.041	-17.1	99	-0.01
36	S	Dibromofluoromethane	0.263	0.269	-2.3	84	-0.01
37	TP	1,1,1-Trichloroethane	0.341	0.302	11.4	72	-0.01
39	TP	2-Butanone	0.055	0.062	-12.7	97	0.00
40	TP	1,1-Dichloropropene	0.288	0.255	11.5	73	-0.01
41	TP	Benzene	0.839	0.779	7.2	78	-0.01
42	TP	tert-Amyl methyl ether	0.543	0.444	18.2	71	-0.01
43	S	1,2-Dichloroethane-d4	0.280	0.306	-9.3	87	-0.01

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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)
44	TP	1,2-Dichloroethane	0.278	0.261	6.1	79	0.00
47	TP	Methyl cyclohexane	0.351	0.286	18.5	68	0.00
48	TP	Trichloroethene	0.219	0.207	5.5	78	-0.01
50	TP	Dibromomethane	0.122	0.106	13.1	74	-0.01
51	TC	1,2-Dichloropropane	0.227	0.220	3.1	82	0.00
54	TP	Bromodichloromethane	0.298	0.267#	10.4	75	-0.01
57	TP	1,4-Dioxane	0.00078	0.00118#	-51.3#	112	-0.01
58	TP	cis-1,3-Dichloropropene	0.347	0.300#	13.5	75	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
60	S	Toluene-d8	1.253	1.335	-6.5	80	0.00
61	TC	Toluene	0.689	0.656	4.8	73	0.00
62	TP	4-Methyl-2-pentanone	0.067	0.059	11.9	70	0.00
63	TP	Tetrachloroethene	0.295	0.258	12.5	67	0.00
65	TP	trans-1,3-Dichloropropene	0.381	0.351	7.9	73	0.00
67	TP	Ethyl methacrylate	0.253	0.205	19.0	64	0.00
68	TP	1,1,2-Trichloroethane	0.174	0.176#	-1.1	79	0.00
69	TP	Chlorodibromomethane	0.276	0.250	9.4	72	0.00
70	TP	1,3-Dichloropropane	0.361	0.353	2.2	76	0.00
71	TP	1,2-Dibromoethane	0.210	0.192#	8.6	72	-0.01
72	TP	2-Hexanone	0.115	0.100	13.0	70	0.00
73	TP	Chlorobenzene	0.807	0.750	7.1	72	0.00
74	TC	Ethylbenzene	1.337	1.230	8.0	71	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.296	0.283	4.4	75	0.00
76	TP	p/m Xylene	0.531	0.486	8.5	70	-0.01
77	TP	o Xylene	0.525	0.473	9.9	69	0.00
78	TP	Styrene	0.869	0.769	11.5	68	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00
80	TP	Bromoform	0.309	0.285	7.8	65	0.00
82	TP	Isopropylbenzene	2.584	2.620	-1.4	68	0.00
83	S	4-Bromofluorobenzene	0.901	0.974	-8.1	73	-0.01
84	TP	Bromobenzene	0.654	0.636	2.8	66	0.00
85	TP	n-Propylbenzene	3.031	3.198	-5.5	71	0.00
86	TP	1,4-Dichlorobutane	0.672	0.801	-19.2	82	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.466	0.521	-11.8	76	0.00
88	TP	4-Ethyltoluene	2.599	2.693	-3.6	69	0.00
89	TP	2-Chlorotoluene	1.837	2.001	-8.9	75	0.00
90	TP	1,3,5-Trimethylbenzene	2.239	2.334	-4.2	70	-0.01

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
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)
91 TP	1,2,3-Trichloropropane	0.379	0.416	-9.8	74	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.132	0.148	-12.1	72	-0.01
93 TP	4-Chlorotoluene	1.903	2.007	-5.5	71	0.00
94 TP	tert-Butylbenzene	1.935	1.948	-0.7	67	0.00
97 TP	1,2,4-Trimethylbenzene	2.204	2.267	-2.9	69	0.00
98 TP	sec-Butylbenzene	2.815	2.884	-2.5	68	0.00
99 TP	p-Isopropyltoluene	2.495	2.495	0.0	66	-0.01
100 TP	1,3-Dichlorobenzene	1.306	1.305	0.1	68	0.00
101 TP	1,4-Dichlorobenzene	1.318	1.308	0.8	68	0.00
102 TP	p-Diethylbenzene	1.522	1.500	1.4	67	0.00
103 TP	n-Butylbenzene	2.081	2.213	-6.3	70	0.00
104 TP	1,2-Dichlorobenzene	1.213	1.208	0.4	67	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.462	2.330	5.4	64	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.072	0.068	5.6	62	0.00
107 TP	1,3,5-Trichlorobenzene	0.956	0.901	5.8	63	0.00
108 TP	Hexachlorobutadiene	0.388	0.348	10.3	59	0.00
109 TP	1,2,4-Trichlorobenzene	0.838	0.732	12.6	60	0.00
110 TP	Naphthalene	1.640	1.454	11.3	60	0.00
111 TP	1,2,3-Trichlorobenzene	0.744	0.649	12.8	60	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 6 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	154204	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 100.00%			
59) Chlorobenzene-d5	9.617	117	110302	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.301	152	50383	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.275	113	41529	10.248	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.48%			
43) 1,2-Dichloroethane-d4	5.800	65	47162	10.931	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.31%			
60) Toluene-d8	7.776	98	147211	10.654	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.54%			
83) 4-Bromofluorobenzene	11.095	95	49055	10.805	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.05%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	28429	9.635	ug/L	100
3) Chloromethane	1.888	50	45496	11.726	ug/L	98
4) Vinyl chloride	1.962	62	38170	9.202	ug/L	98
5) Bromomethane	2.276	94	15143	5.547	ug/L	98
6) Chloroethane	2.397	64	21425	8.163	ug/L	98
7) Trichlorofluoromethane	2.539	101	37946	7.568	ug/L	96
8) Ethyl ether	2.837	74	11843	7.614	ug/L	91
10) 1,1-Dichloroethene	3.031	96	25370	9.066	ug/L #	74
11) Carbon disulfide	3.058	76	87584	9.087	ug/L	97
12) Freon-113	3.068	101	24939	8.480	ug/L	95
14) Acrolein	3.346	56	3248	18.495	ug/L	95
15) Methylene chloride	3.582	84	29615	8.931	ug/L	89
17) Acetone	3.624	43	6137	11.337	ug/L	93
18) trans-1,2-Dichloroethene	3.734	96	29447	9.108	ug/L	84
19) Methyl acetate	3.739	43	16028	11.760	ug/L #	92
20) Methyl tert-butyl ether	3.834	73	64695	8.783	ug/L	95
21) tert-Butyl alcohol	3.917	59	8748	69.260	ug/L #	59
22) Diisopropyl ether	4.195	45	114580	10.676	ug/L	95
23) 1,1-Dichloroethane	4.321	63	61443	9.733	ug/L	99
24) Halothane	4.368	117	22203	8.722	ug/L	100
25) Acrylonitrile	4.358	53	7306	11.466	ug/L #	86

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.541	59	92771	9.269	ug/L		93
27) Vinyl acetate	4.552	43	61118	9.806	ug/L		99
28) cis-1,2-Dichloroethene	4.835	96	33187	8.913	ug/L	#	77
29) 2,2-Dichloropropane	4.940	77	47352	9.251	ug/L		95
30) Bromochloromethane	5.024	128	15068	8.679	ug/L	#	74
31) Cyclohexane	5.034	56	53802	9.582	ug/L		80
32) Chloroform	5.097	83	54976	9.158	ug/L		98
33) Ethyl acetate	5.207	43	22519	10.671	ug/L	#	93
34) Carbon tetrachloride	5.239	117	42115	8.988	ug/L		98
35) Tetrahydrofuran	5.244	42	6352M6	11.615	ug/L		
37) 1,1,1-Trichloroethane	5.302	97	46535	8.845	ug/L	#	95
39) 2-Butanone	5.391	43	9510	11.293	ug/L		95
40) 1,1-Dichloropropene	5.422	75	39390	8.874	ug/L		96
41) Benzene	5.669	78	120177	9.293	ug/L		94
42) tert-Amyl methyl ether	5.779	73	68410	8.168	ug/L		97
44) 1,2-Dichloroethane	5.873	62	40171	9.360	ug/L		98
47) Methyl cyclohexane	6.261	83	44115	8.155	ug/L		85
48) Trichloroethene	6.261	95	31996	9.455	ug/L		94
50) Dibromomethane	6.696	93	16376	8.709	ug/L		96
51) 1,2-Dichloropropane	6.806	63	33913	9.696	ug/L		95
54) Bromodichloromethane	6.875	83	41110	8.944	ug/L		99
57) 1,4-Dioxane	7.084	88	9116	754.510	ug/L	#	84
58) cis-1,3-Dichloropropene	7.567	75	46223	8.644	ug/L		95
61) Toluene	7.834	92	72360	9.519	ug/L		98
62) 4-Methyl-2-pentanone	8.264	58	6547	8.801	ug/L	#	83
63) Tetrachloroethene	8.280	166	28489	8.766	ug/L		94
65) trans-1,3-Dichloropropene	8.311	75	38663	9.208	ug/L		99
67) Ethyl methacrylate	8.500	69	22605	8.102	ug/L	#	30
68) 1,1,2-Trichloroethane	8.500	83	19448	10.157	ug/L		95
69) Chlorodibromomethane	8.710	129	27622	9.062	ug/L		96
70) 1,3-Dichloropropane	8.820	76	38884	9.760	ug/L		99
71) 1,2-Dibromoethane	8.982	107	21149	9.127	ug/L		95
72) 2-Hexanone	9.271	43	10987	8.699	ug/L	#	93
73) Chlorobenzene	9.638	112	82742	9.292	ug/L		96
74) Ethylbenzene	9.680	91	135674	9.200	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.722	131	31219	9.553	ug/L		93
76) p/m Xylene	9.863	106	107141	18.302	ug/L		95
77) o Xylene	10.403	106	104306	18.002	ug/L		90
78) Styrene	10.466	104	169630	17.688	ug/L		89
80) Bromoform	10.487	173	14345	9.213	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Isopropylbenzene	10.781	105	132022	10.139	ug/L		95
84) Bromobenzene	11.211	156	32037	9.725	ug/L		99
85) n-Propylbenzene	11.258	91	161142	10.551	ug/L		96
86) 1,4-Dichlorobutane	11.268	55	40360	11.927	ug/L		92
87) 1,1,2,2-Tetrachloroethane	11.336	83	26240	11.185	ug/L		99
88) 4-Ethyltoluene	11.384	105	135700	10.363	ug/L		96
89) 2-Chlorotoluene	11.420	91	100830M6	10.897	ug/L		
90) 1,3,5-Trimethylbenzene	11.478	105	117603	10.425	ug/L		89
91) 1,2,3-Trichloropropane	11.473	75	20938	10.956	ug/L		96
92) trans-1,4-Dichloro-2-b...	11.525	53	7456	11.192	ug/L	#	81
93) 4-Chlorotoluene	11.604	91	101141	10.548	ug/L		91
94) tert-Butylbenzene	11.819	119	98160	10.069	ug/L		98
97) 1,2,4-Trimethylbenzene	11.897	105	114194	10.285	ug/L		91
98) sec-Butylbenzene	12.008	105	145300	10.246	ug/L		97
99) p-Isopropyltoluene	12.160	119	125681	9.998	ug/L		95
100) 1,3-Dichlorobenzene	12.222	146	65767	9.998	ug/L		99
101) 1,4-Dichlorobenzene	12.317	146	65917	9.927	ug/L		99
102) p-Diethylbenzene	12.532	119	75593	9.857	ug/L		94
103) n-Butylbenzene	12.589	91	111505	10.634	ug/L		98
104) 1,2-Dichlorobenzene	12.736	146	60865	9.963	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.323	119	117399	9.464	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.512	155	3410	9.455	ug/L		95
107) 1,3,5-Trichlorobenzene	13.544	180	45381	9.423	ug/L		96
108) Hexachlorobutadiene	14.120	225	17513	8.953	ug/L		95
109) 1,2,4-Trichlorobenzene	14.141	180	36885	8.732	ug/L		97
110) Naphthalene	14.435	128	73267	8.864	ug/L		100
111) 1,2,3-Trichlorobenzene	14.598	180	32681	8.713	ug/L		98

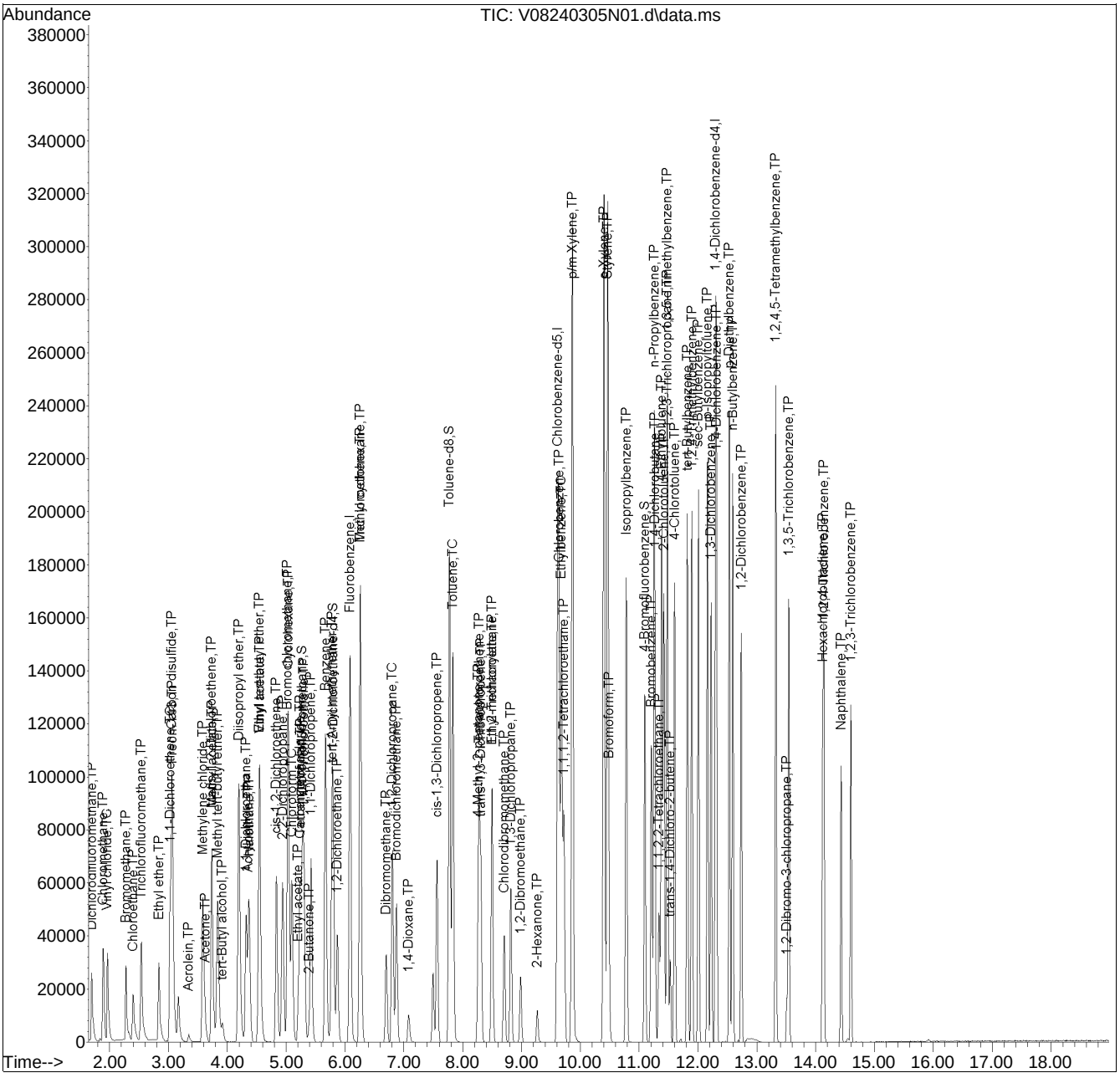
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-2
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOd•

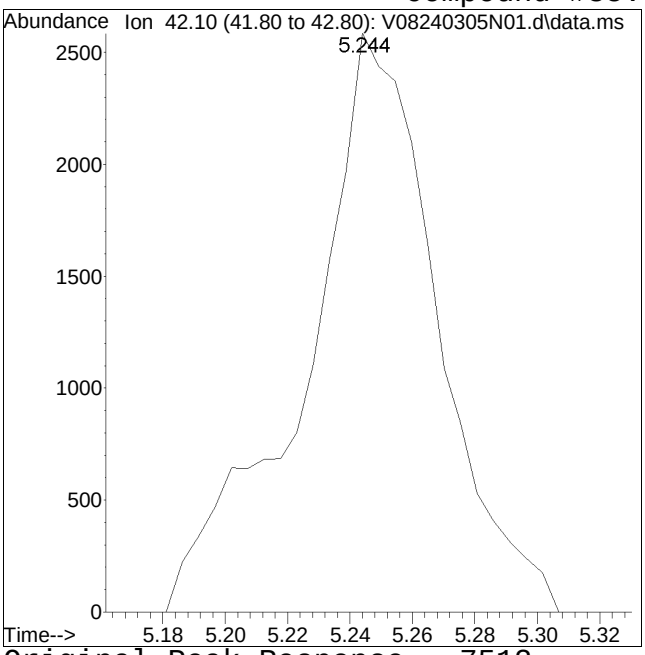


Manual Integration Report

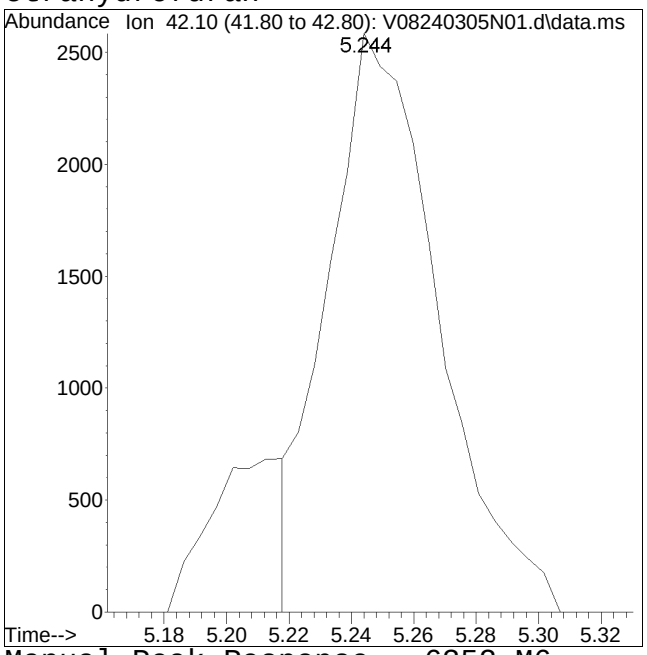
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Date Inj'd : 3/5/2024 5:29 pm
Sample : WG1893240-2

QMethod : V108_240109N_8260.m
Operator : VOA108:TMS
Instrument : VOA 108
Quant Date : 3/5/2024 6:15 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 7512



Manual Peak Response = 6352 M6

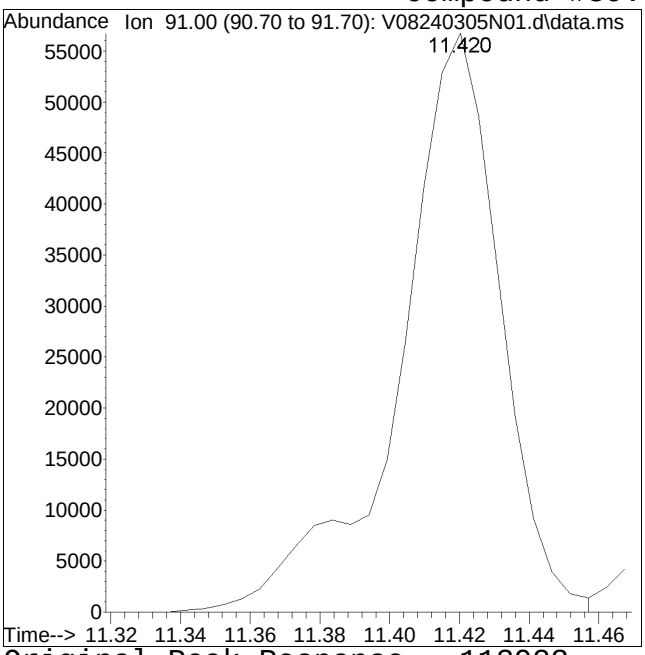
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

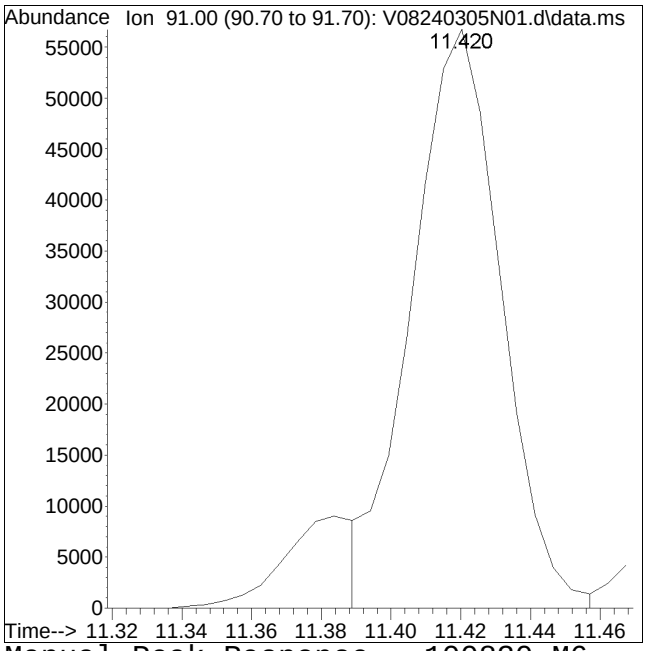
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Date Inj'd : 3/5/2024 5:29 pm
Sample : WG1893240-2

QMethod : V108_240109N_8260.m
Operator : VOA108:TMS
Instrument : VOA 108
Quant Date : 3/5/2024 6:15 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 113923



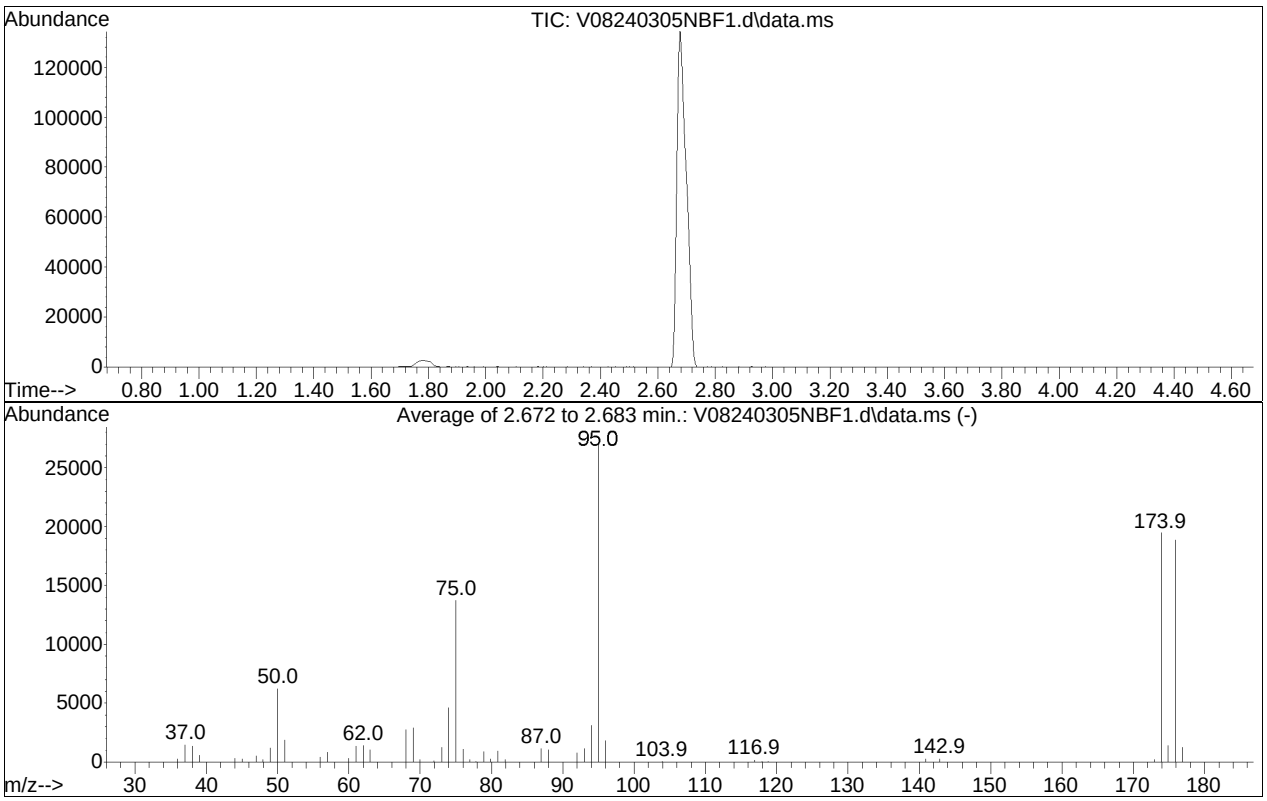
Manual Peak Response = 100830 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305NBF1.d
Acq On : 5 Mar 2024 4:48 pm
Operator : VOA108:TMS
Sample : WG1893240-1
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 10 11:47:12 2024



Spectrum Information: Average of 2.672 to 2.683 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	6238	PASS
75	95	30	60	50.7	13740	PASS
95	95	100	100	100.0	27125	PASS
96	95	5	9	6.6	1794	PASS
173	174	0.00	2	1.1	219	PASS
174	95	50	100	71.9	19509	PASS
175	174	5	9	7.4	1434	PASS
176	174	95	101	96.7	18869	PASS
177	176	5	9	6.6	1240	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N05.d
Acq On : 5 Mar 2024 6:58 pm
Operator : VOA108:TMS
Sample : WG1893240-5,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 05 20:29:09 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	155720	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 100.98%			
59) Chlorobenzene-d5	9.617	117	114264	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 103.59%			
79) 1,4-Dichlorobenzene-d4	12.301	152	48429	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 96.12%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	42707	10.436	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.36%			
43) 1,2-Dichloroethane-d4	5.805	65	47310	10.859	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.59%			
60) Toluene-d8	7.782	98	149253	10.427	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.27%			
83) 4-Bromofluorobenzene	11.101	95	48073	11.016	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.D.	
6) Chloroethane	0.000		0		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
8) Ethyl ether	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.058	76	114		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	0.000		0		N.D.	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
25) Acrylonitrile	0.000		0		N.D.	
27) Vinyl acetate	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
29) 2,2-Dichloropropane	0.000		0		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
32) Chloroform	0.000		0		N.D.	

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N05.d
Acq On : 5 Mar 2024 6:58 pm
Operator : VOA108:TMS
Sample : WG1893240-5,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 05 20:29:09 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N05.d
Acq On : 5 Mar 2024 6:58 pm
Operator : VOA108:TMS
Sample : WG1893240-5,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 05 20:29:09 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108) Hexachlorobutadiene	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	14.435	128	155		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

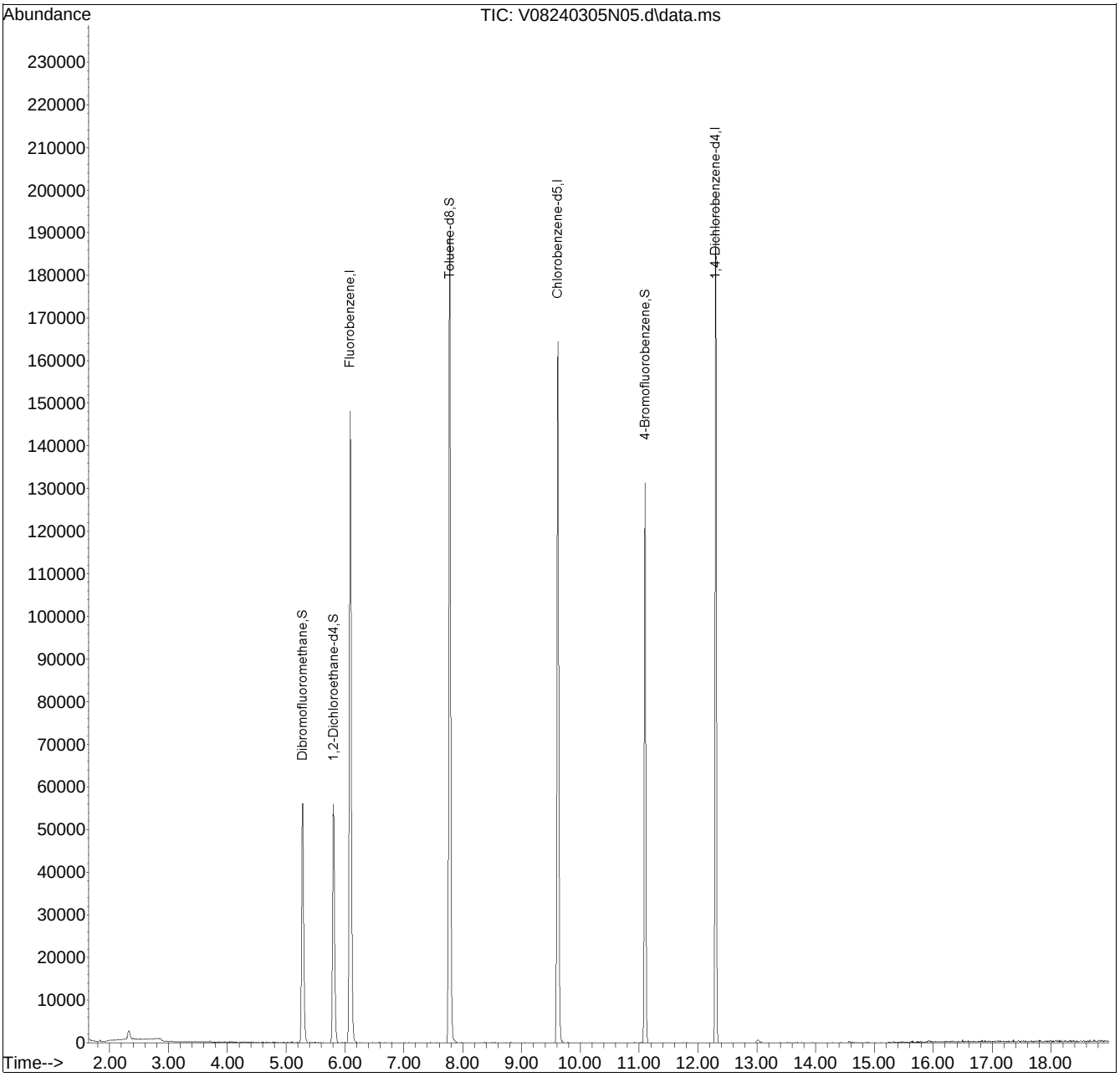
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N05.d
Acq On : 5 Mar 2024 6:58 pm
Operator : VOA108:TMS
Sample : WG1893240-5,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 05 20:29:09 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOd•



Manual Integration Report

Data Path	: K:\VOA108\2024\240305N\	QMethod	: V108_240109N_8260.m
Data File	: V08240305N05.d	Operator	: VOA108:TMS
Date Inj'd	: 3/5/2024 6:58 pm	Instrument	: VOA 108
Sample	: WG1893240-5,31,10,10	Quant Date	: 3/5/2024 8:29 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-3,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	154204	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 100.00%			
59) Chlorobenzene-d5	9.617	117	110302	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.301	152	50383	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.275	113	41529	10.248	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.48%			
43) 1,2-Dichloroethane-d4	5.800	65	47162	10.931	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.31%			
60) Toluene-d8	7.776	98	147211	10.654	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.54%			
83) 4-Bromofluorobenzene	11.095	95	49055	10.805	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.05%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	28429	9.635	ug/L	100
3) Chloromethane	1.888	50	45496	11.726	ug/L	98
4) Vinyl chloride	1.962	62	38170	9.202	ug/L	98
5) Bromomethane	2.276	94	15143	5.547	ug/L	98
6) Chloroethane	2.397	64	21425	8.163	ug/L	98
7) Trichlorofluoromethane	2.539	101	37946	7.568	ug/L	96
8) Ethyl ether	2.837	74	11843	7.614	ug/L	91
10) 1,1-Dichloroethene	3.031	96	25370	9.066	ug/L #	74
11) Carbon disulfide	3.058	76	87584	9.087	ug/L	97
15) Methylene chloride	3.582	84	29615	8.931	ug/L	89
17) Acetone	3.624	43	6137	11.337	ug/L	93
18) trans-1,2-Dichloroethene	3.734	96	29447	9.108	ug/L	84
20) Methyl tert-butyl ether	3.834	73	64695	8.783	ug/L	95
23) 1,1-Dichloroethane	4.321	63	61443	9.733	ug/L	99
25) Acrylonitrile	4.358	53	7306	11.466	ug/L #	86
27) Vinyl acetate	4.552	43	61118	9.806	ug/L	99
28) cis-1,2-Dichloroethene	4.835	96	33187	8.913	ug/L #	77
29) 2,2-Dichloropropane	4.940	77	47352	9.251	ug/L	95
30) Bromochloromethane	5.024	128	15068	8.679	ug/L #	74
32) Chloroform	5.097	83	54976	9.158	ug/L	98

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-3,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.239	117	42115	8.988	ug/L		98
37) 1,1,1-Trichloroethane	5.302	97	46535	8.845	ug/L	#	95
39) 2-Butanone	5.391	43	9510	11.293	ug/L		95
40) 1,1-Dichloropropene	5.422	75	39390	8.874	ug/L		96
41) Benzene	5.669	78	120177	9.293	ug/L		94
44) 1,2-Dichloroethane	5.873	62	40171	9.360	ug/L		98
48) Trichloroethene	6.261	95	31996	9.455	ug/L		94
50) Dibromomethane	6.696	93	16376	8.709	ug/L		96
51) 1,2-Dichloropropane	6.806	63	33913	9.696	ug/L		95
54) Bromodichloromethane	6.875	83	41110	8.944	ug/L		99
57) 1,4-Dioxane	7.084	88	9116	754.510	ug/L	#	84
58) cis-1,3-Dichloropropene	7.567	75	46223	8.644	ug/L		95
61) Toluene	7.834	92	72360	9.519	ug/L		98
62) 4-Methyl-2-pentanone	8.264	58	6547	8.801	ug/L	#	83
63) Tetrachloroethene	8.280	166	28489	8.766	ug/L		94
65) trans-1,3-Dichloropropene	8.311	75	38663	9.208	ug/L		99
68) 1,1,2-Trichloroethane	8.500	83	19448	10.157	ug/L		95
69) Chlorodibromomethane	8.710	129	27622	9.062	ug/L		96
70) 1,3-Dichloropropane	8.820	76	38884	9.760	ug/L		99
71) 1,2-Dibromoethane	8.982	107	21149	9.127	ug/L		95
72) 2-Hexanone	9.271	43	10987	8.699	ug/L	#	93
73) Chlorobenzene	9.638	112	82742	9.292	ug/L		96
74) Ethylbenzene	9.680	91	135674	9.200	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.722	131	31219	9.553	ug/L		93
76) p/m Xylene	9.863	106	107141	18.302	ug/L		95
77) o Xylene	10.403	106	104306	18.002	ug/L		90
78) Styrene	10.466	104	169630	17.688	ug/L		89
80) Bromoform	10.487	173	14345	9.213	ug/L		96
82) Isopropylbenzene	10.781	105	132022	10.139	ug/L		95
84) Bromobenzene	11.211	156	32037	9.725	ug/L		99
85) n-Propylbenzene	11.258	91	161142	10.551	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.336	83	26240	11.185	ug/L		99
88) 4-Ethyltoluene	11.384	105	135700	10.363	ug/L		96
89) 2-Chlorotoluene	11.420	91	100830M6	10.897	ug/L		
90) 1,3,5-Trimethylbenzene	11.478	105	117603	10.425	ug/L		89
91) 1,2,3-Trichloropropane	11.473	75	20938	10.956	ug/L		96
92) trans-1,4-Dichloro-2-b...	11.525	53	7456	11.192	ug/L	#	81
93) 4-Chlorotoluene	11.604	91	101141	10.548	ug/L		91
94) tert-Butylbenzene	11.819	119	98160	10.069	ug/L		98

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
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Sample : WG1893240-3,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.897	105	114194	10.285	ug/L	91
98)	sec-Butylbenzene	12.008	105	145300	10.246	ug/L	97
99)	p-Isopropyltoluene	12.160	119	125681	9.998	ug/L	95
100)	1,3-Dichlorobenzene	12.222	146	65767	9.998	ug/L	99
101)	1,4-Dichlorobenzene	12.317	146	65917	9.927	ug/L	99
102)	p-Diethylbenzene	12.532	119	75593	9.857	ug/L	94
103)	n-Butylbenzene	12.589	91	111505	10.634	ug/L	98
104)	1,2-Dichlorobenzene	12.736	146	60865	9.963	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.323	119	117399	9.464	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.512	155	3410	9.455	ug/L	95
108)	Hexachlorobutadiene	14.120	225	17513	8.953	ug/L	95
109)	1,2,4-Trichlorobenzene	14.141	180	36885	8.732	ug/L	97
110)	Naphthalene	14.435	128	73267	8.864	ug/L	100
111)	1,2,3-Trichlorobenzene	14.598	180	32681	8.713	ug/L	98

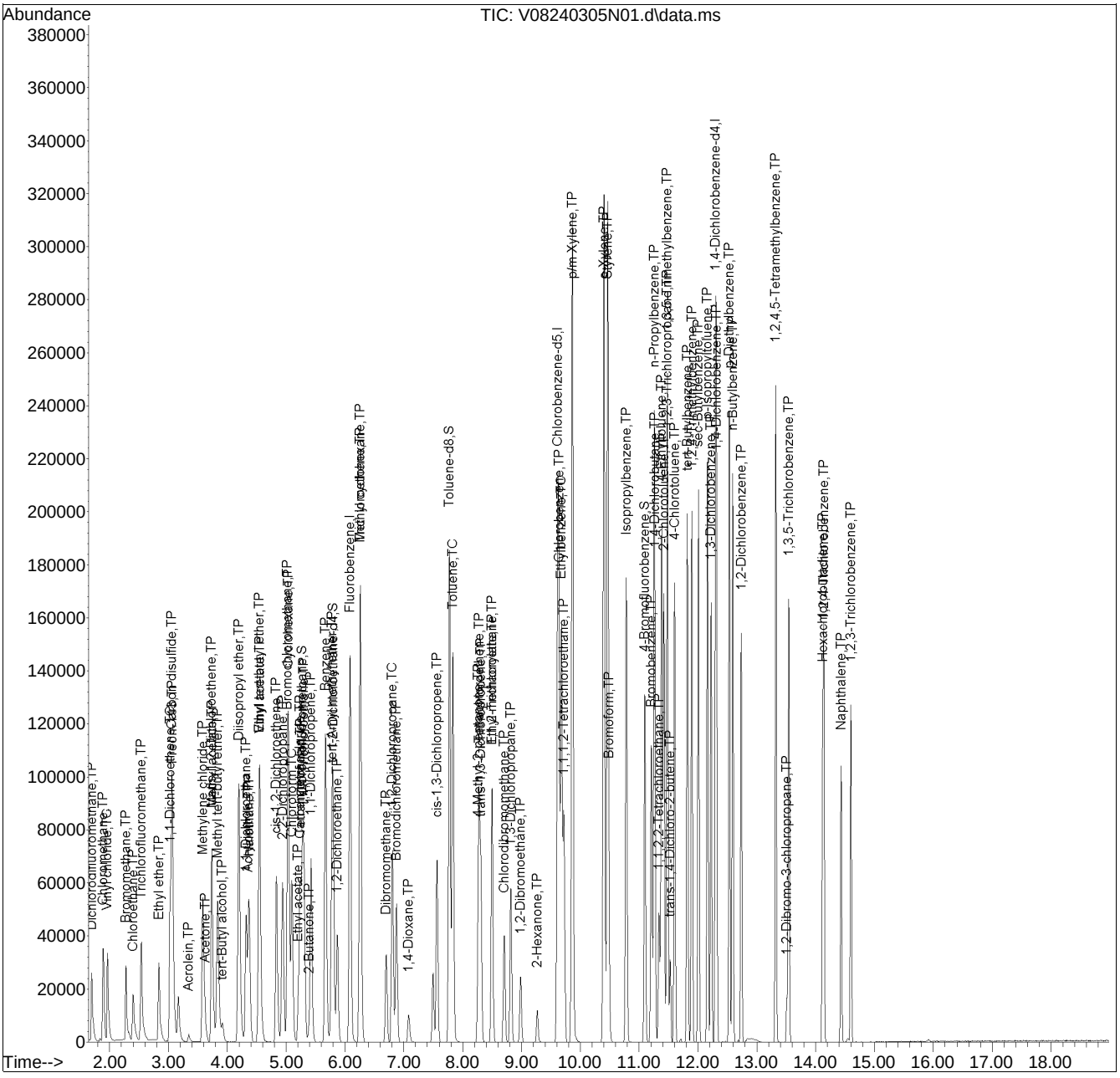
(#) = qualifier out of range (m) = manual integration (+) = signals summed

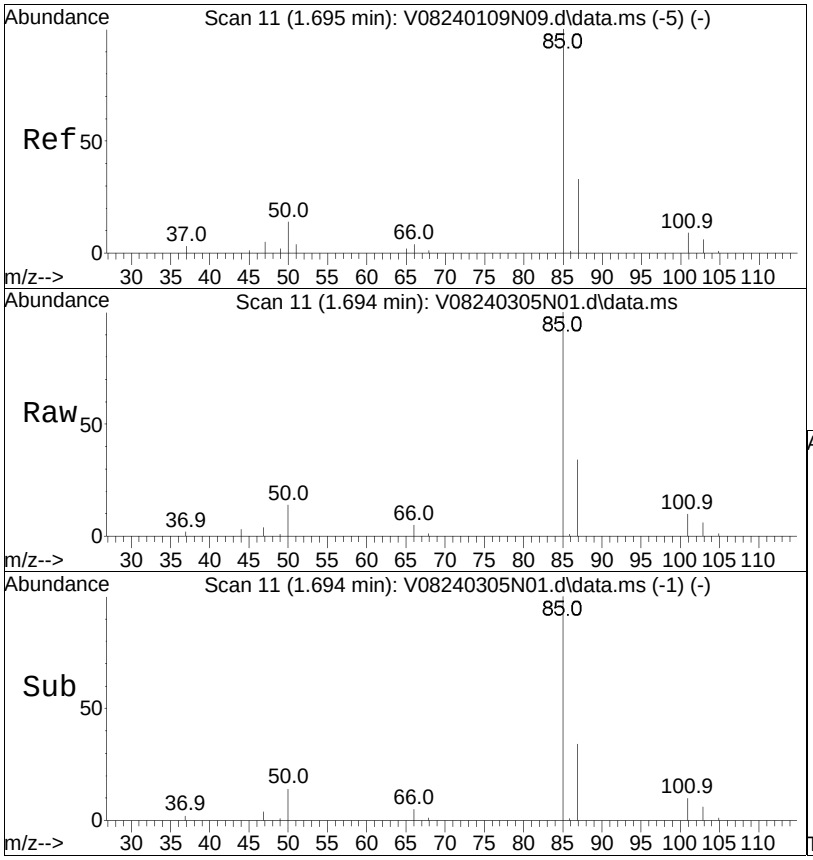
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Acq On : 5 Mar 2024 5:29 pm
Operator : VOA108:TMS
Sample : WG1893240-3,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 05 18:16:25 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOd•

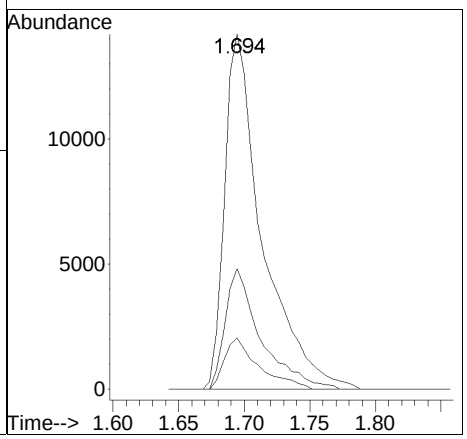


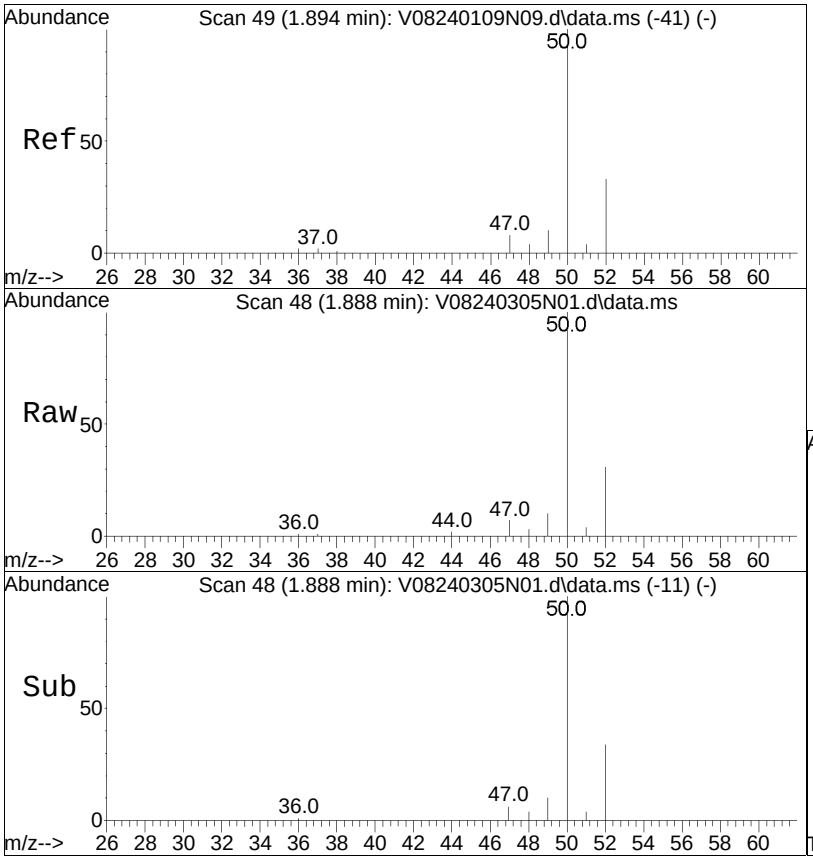


#2
Dichlorodifluoromethane
Concen: 9.63 ug/L
RT: 1.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 85 Resp: 28429

Ion	Ratio	Lower	Upper
85	100		
87	32.2	21.0	43.6
50	13.3	8.9	18.5

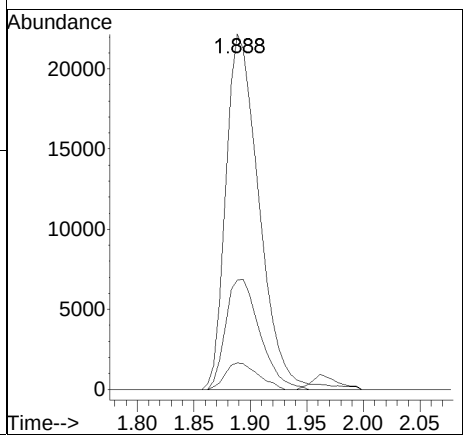


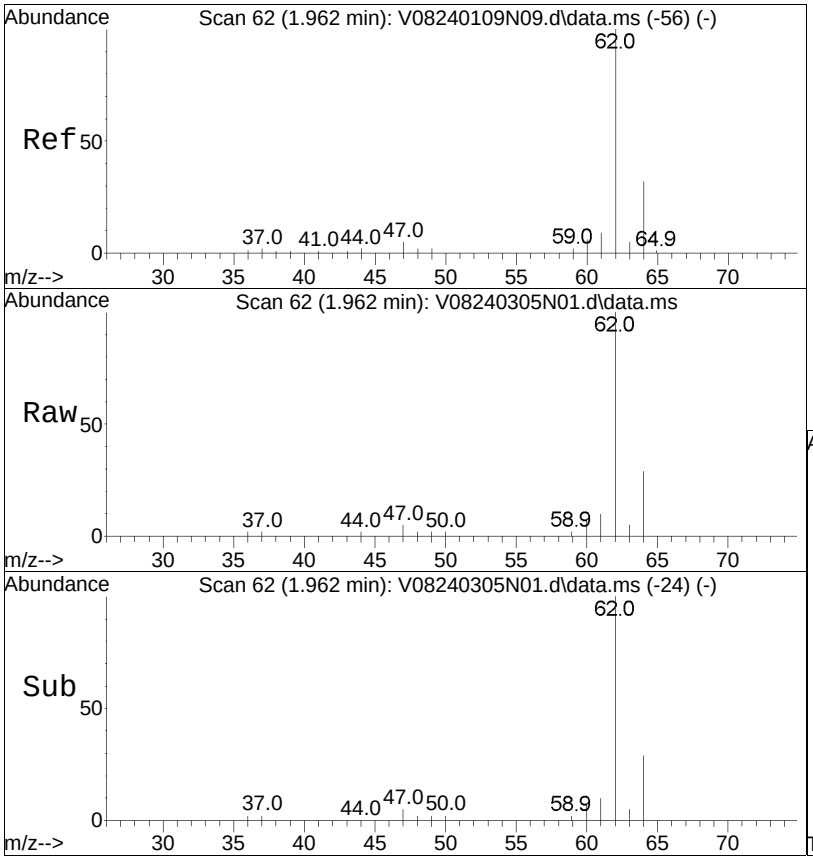


#3
Chloromethane
Concen: 11.73 ug/L
RT: 1.888 min Scan# 48
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 50 Resp: 45496

Ion	Ratio	Lower	Upper
50	100		
52	31.8	12.9	52.9
47	7.4	0.0	28.3

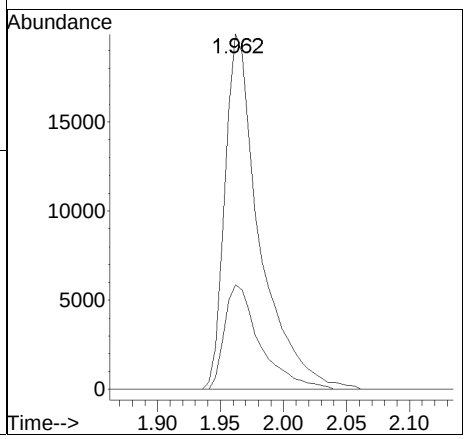


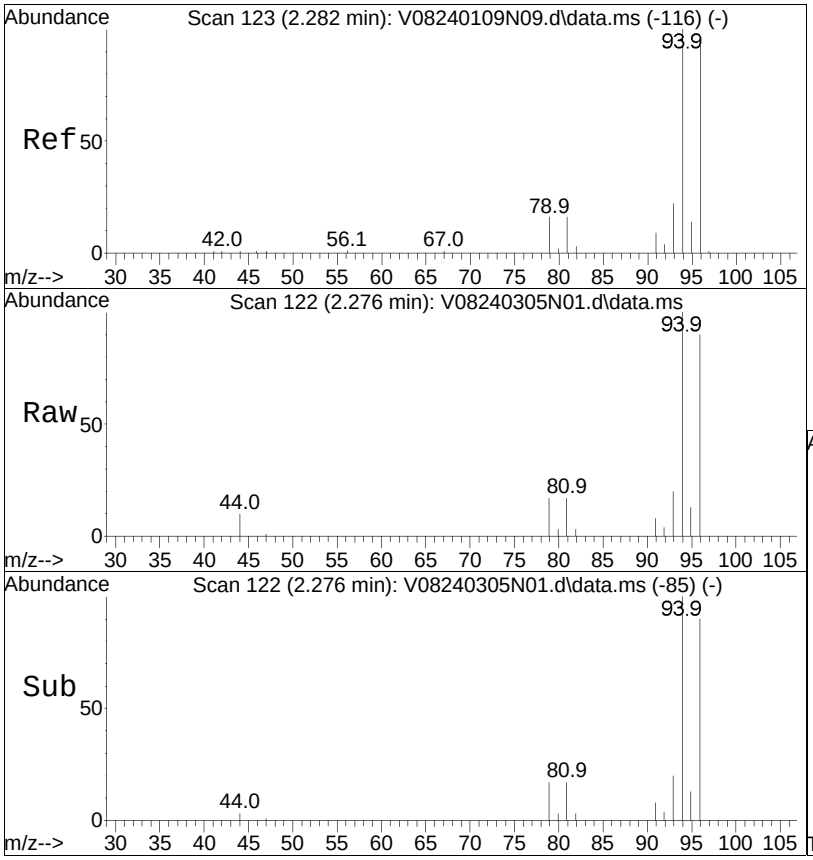


#4
Vinyl chloride
Concen: 9.20 ug/L
RT: 1.962 min Scan# 62
Delta R.T. -0.000 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 62 Resp: 38170

Ion	Ratio	Lower	Upper
62	100		
64	30.3	9.1	49.1

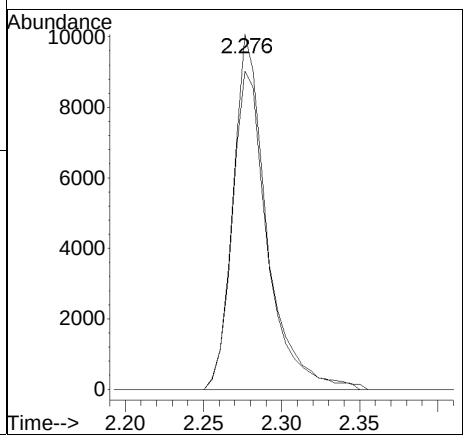


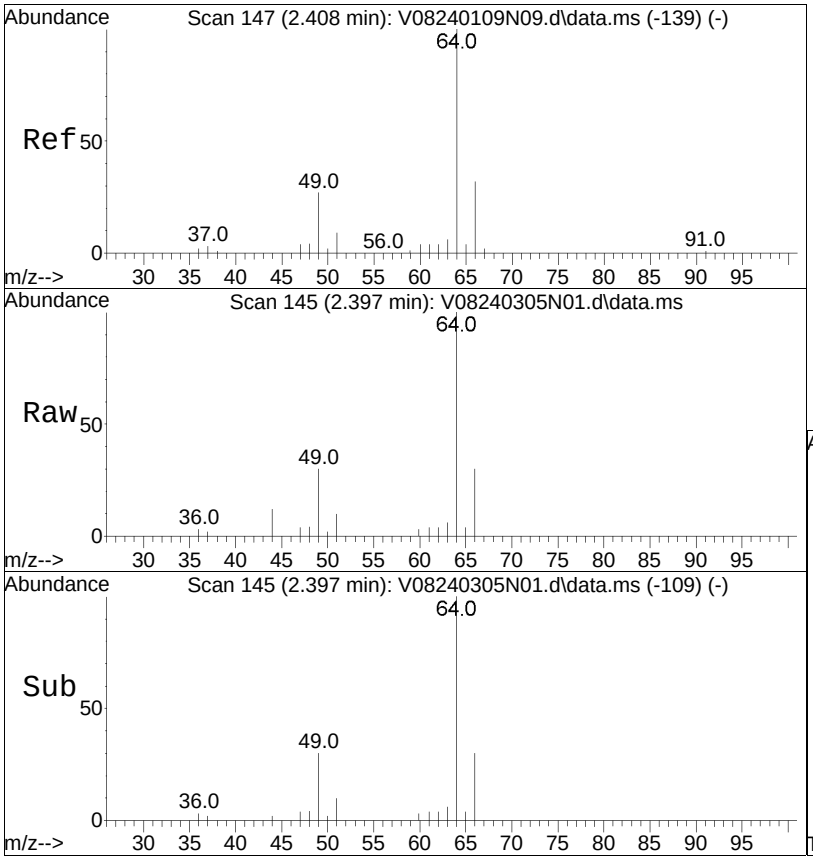


#5
Bromomethane
Concen: 5.55 ug/L
RT: 2.276 min Scan# 122
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 94 Resp: 15143

Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.6	115.6

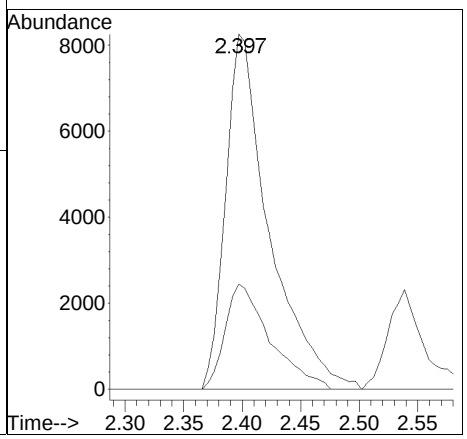


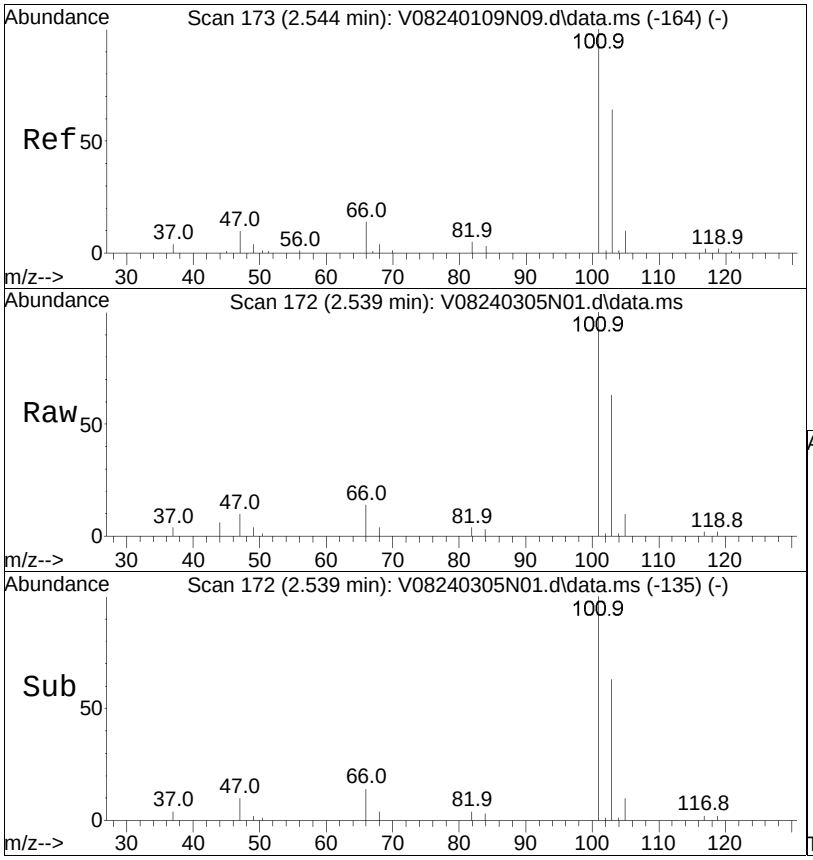


#6
Chloroethane
Concen: 8.16 ug/L
RT: 2.397 min Scan# 145
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 64 Resp: 21425

Ion	Ratio	Lower	Upper
64	100		
66	30.7	9.8	49.8

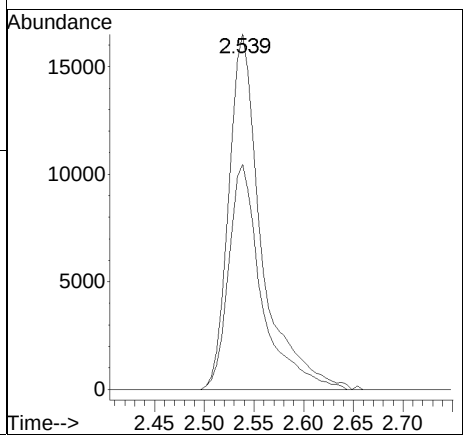


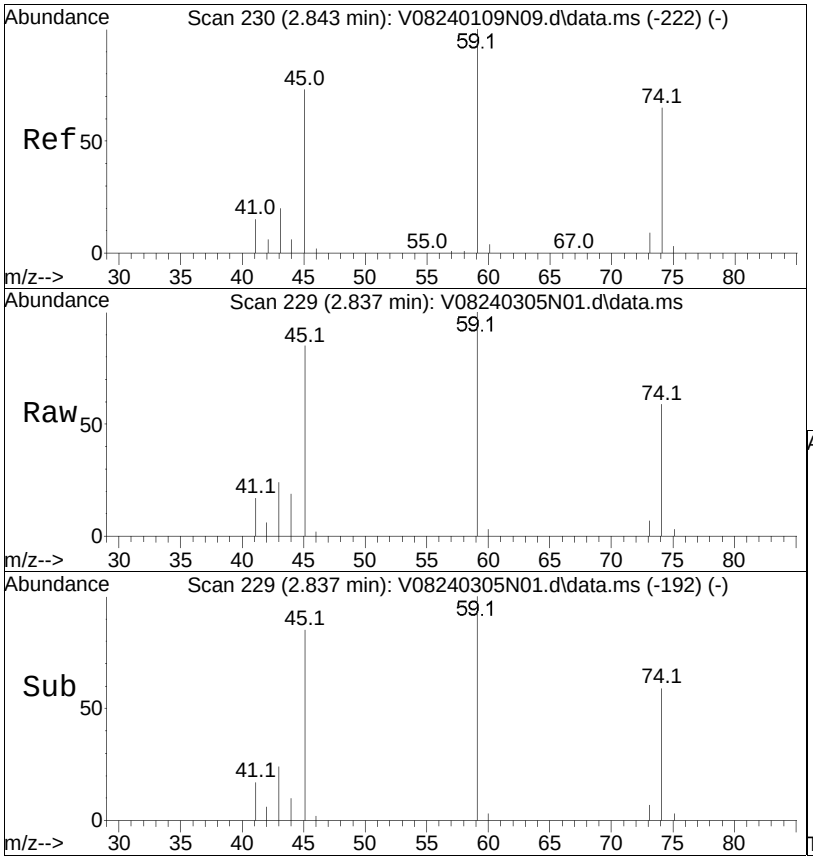


#7
Trichlorofluoromethane
Concen: 7.57 ug/L
RT: 2.539 min Scan# 172
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:101 Resp: 37946

Ion	Ratio	Lower	Upper
101	100		
103	64.2	53.8	80.6

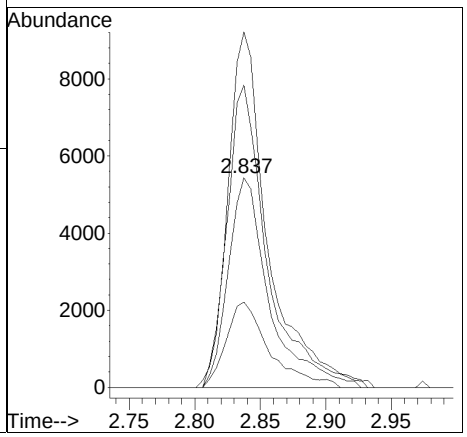


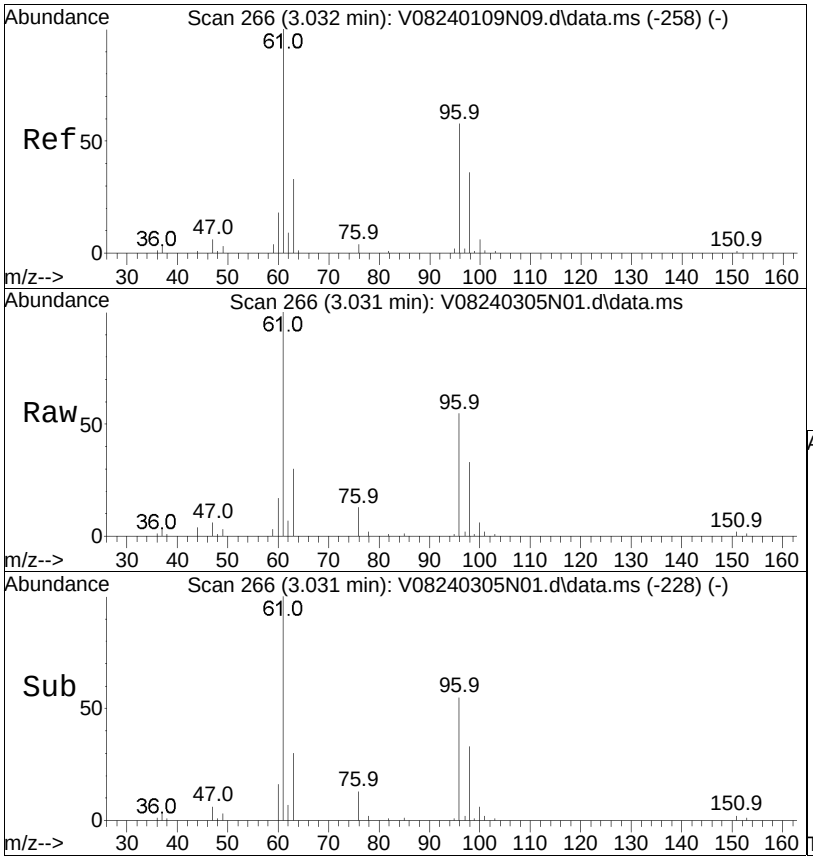


#8
Ethyl ether
Concen: 7.61 ug/L
RT: 2.837 min Scan# 229
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 74 Resp: 11843

Ion	Ratio	Lower	Upper
74	100		
59	166.0	122.2	253.8
45	143.0	91.9	190.9
43	43.1	25.2	52.2

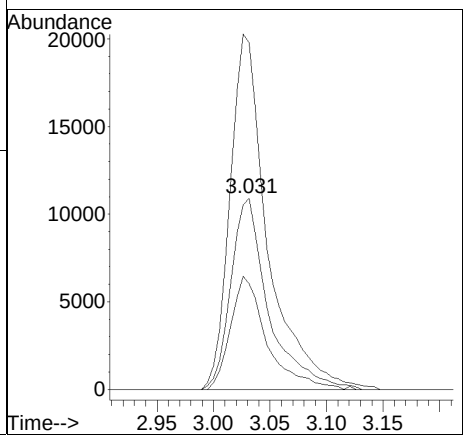


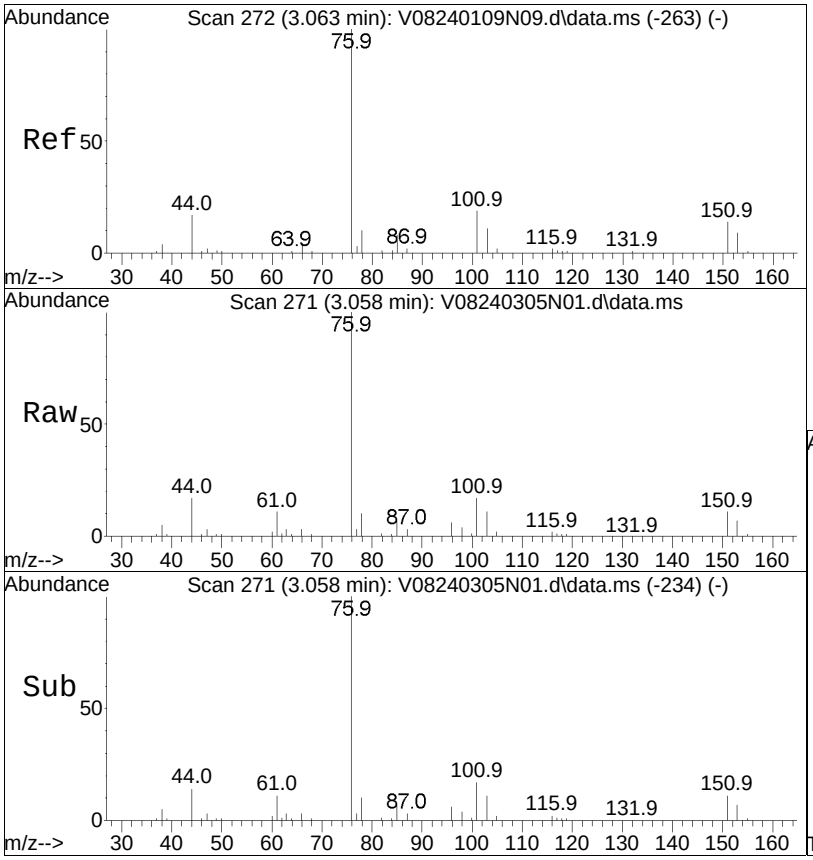


#10
1,1-Dichloroethene
Concen: 9.07 ug/L
RT: 3.031 min Scan# 266
Delta R.T. -0.000 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 96 Resp: 25370

Ion	Ratio	Lower	Upper
96	100		
61	185.7	186.1	279.1#
63	57.2	57.6	86.4#

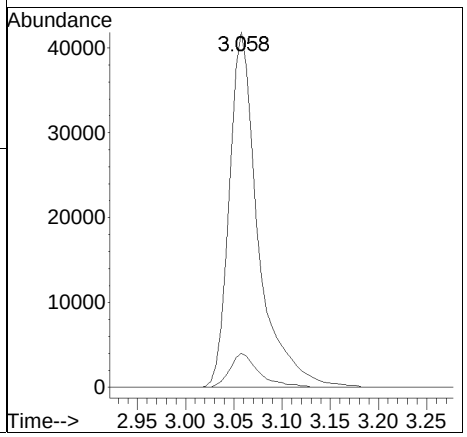


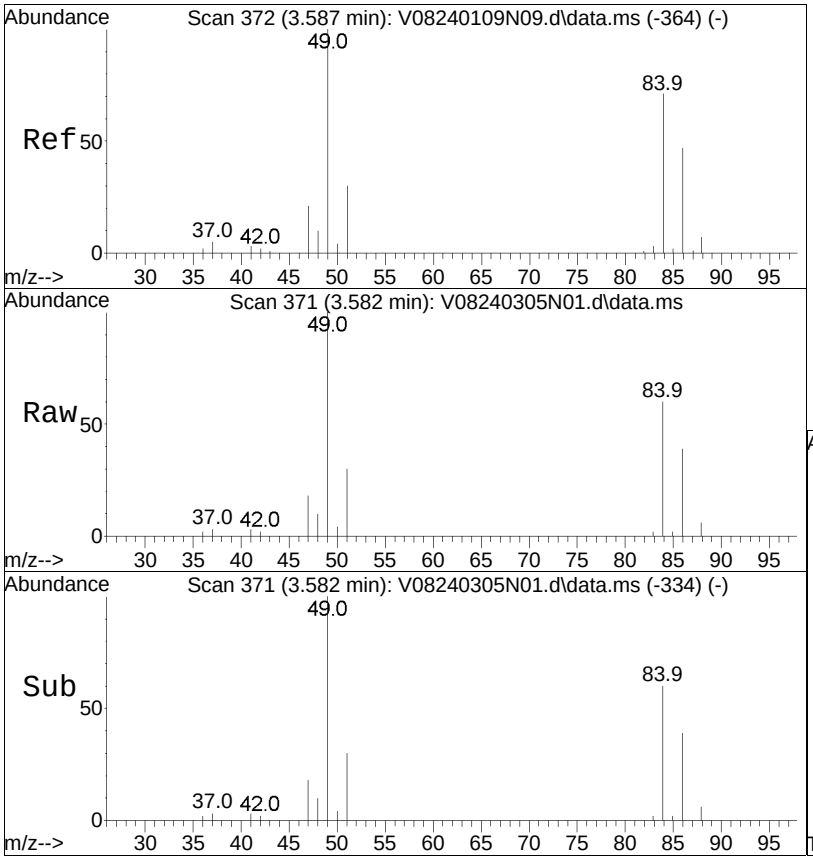


#11
Carbon disulfide
Concen: 9.09 ug/L
RT: 3.058 min Scan# 271
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 76 Resp: 87584

Ion	Ratio	Lower	Upper
76	100		
78	9.7	5.7	11.7

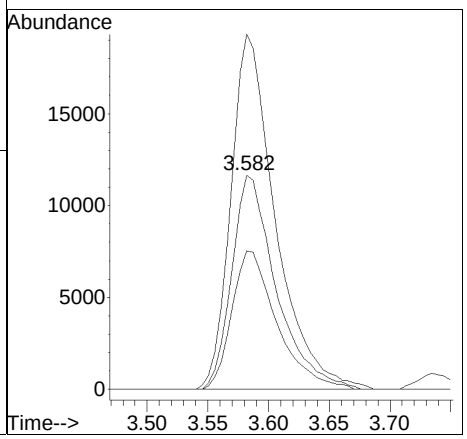


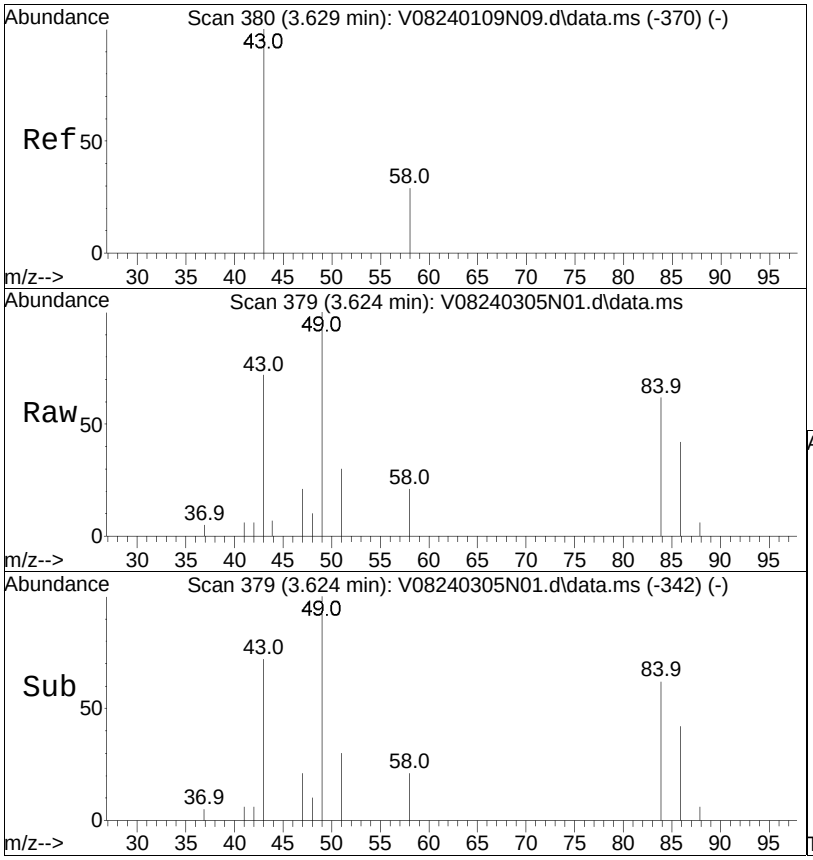


#15
Methylene chloride
Concen: 8.93 ug/L
RT: 3.582 min Scan# 371
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 84 Resp: 29615

Ion	Ratio	Lower	Upper
84	100		
86	65.9	40.4	83.8
49	166.3	120.0	249.2

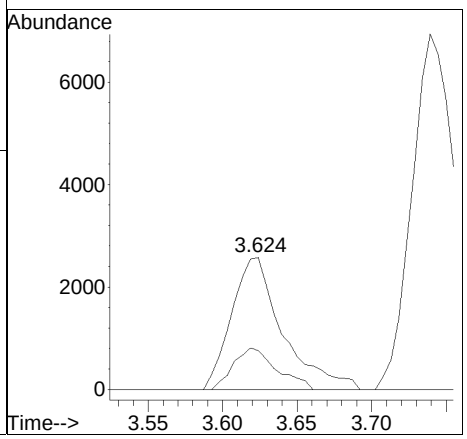


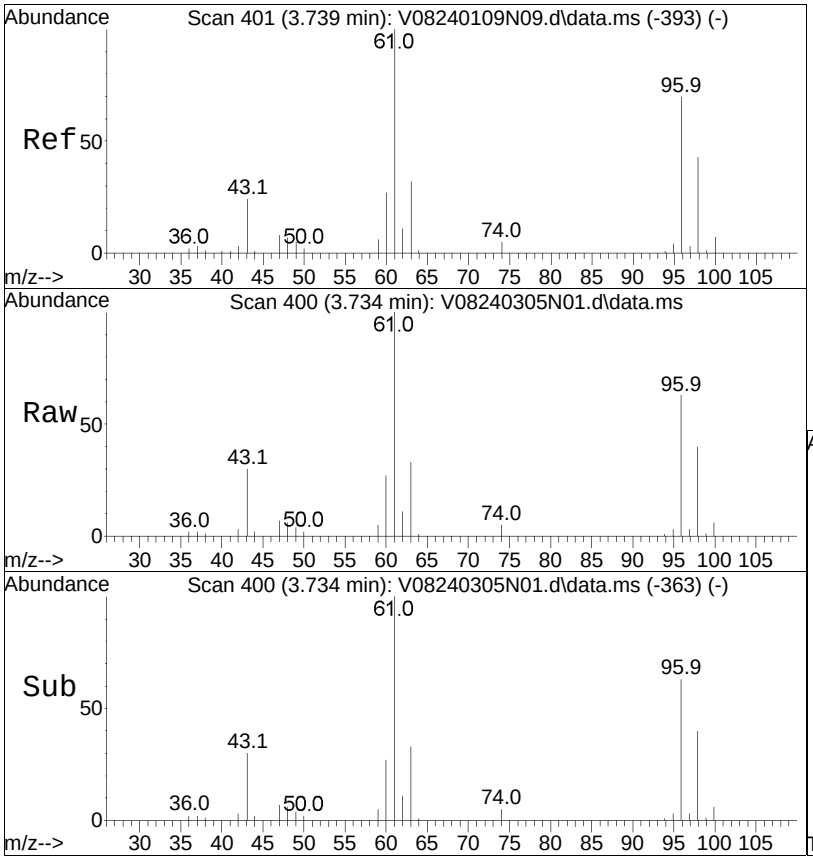


#17
Acetone
Concen: 11.34 ug/L
RT: 3.624 min Scan# 379
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 43 Resp: 6137

Ion	Ratio	Lower	Upper
43	100		
58	26.7	24.2	36.4

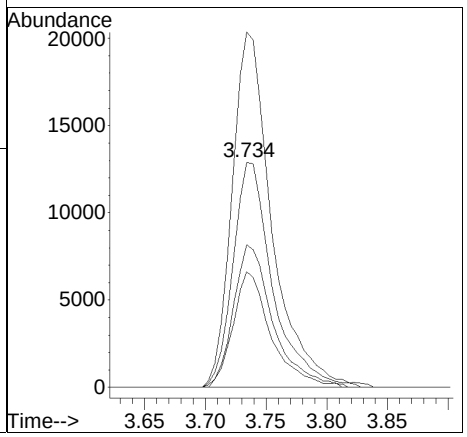


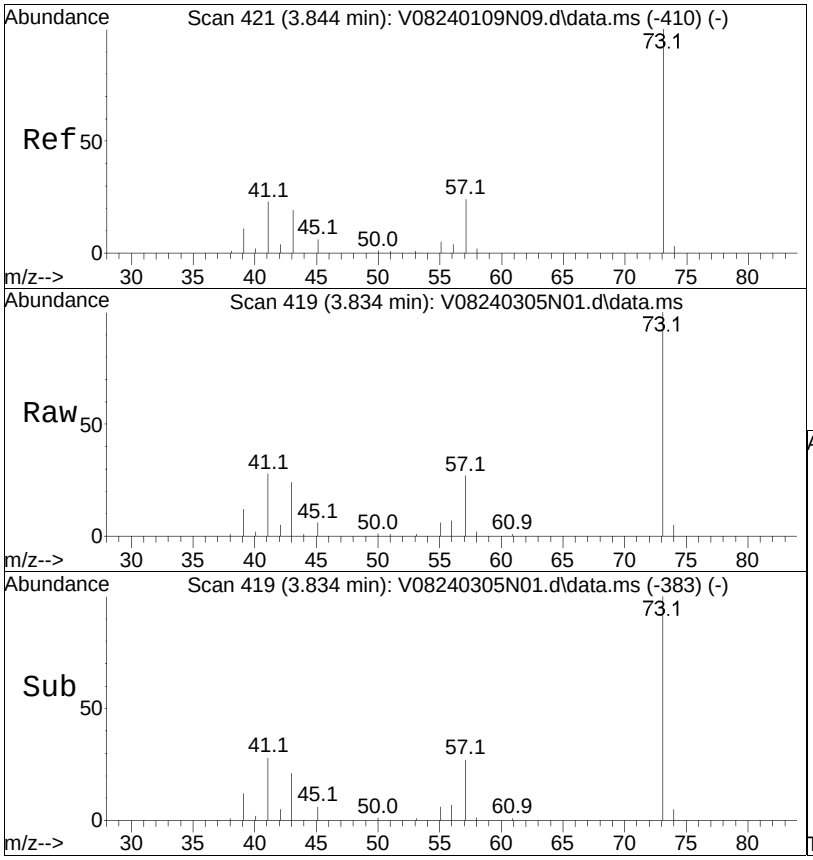


#18
trans-1,2-Dichloroethene
Concen: 9.11 ug/L
RT: 3.734 min Scan# 400
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 96 Resp: 29447

Ion	Ratio	Lower	Upper
96	100		
61	158.2	124.0	257.6
98	63.1	41.2	85.6
63	49.2	38.4	79.7

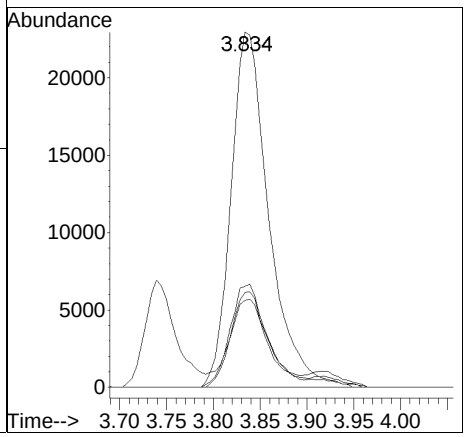


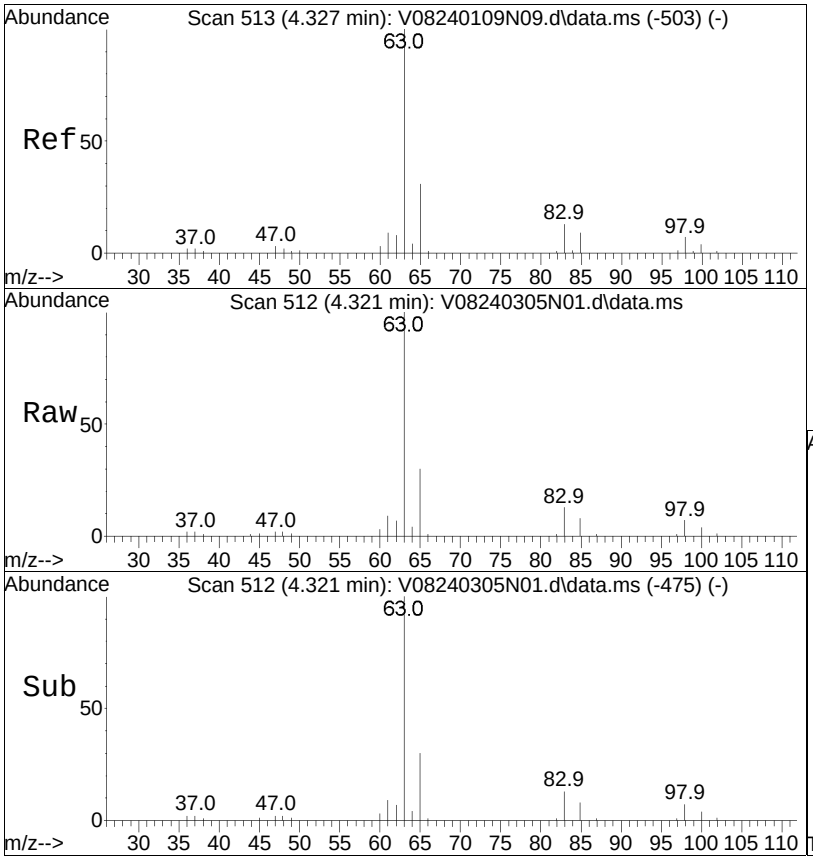


#20
Methyl tert-butyl ether
Concen: 8.78 ug/L
RT: 3.834 min Scan# 419
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 73 Resp: 64695

Ion	Ratio	Lower	Upper
73	100		
57	26.3	17.5	36.3
43	21.9	15.3	31.9
41	28.5	15.3	31.7

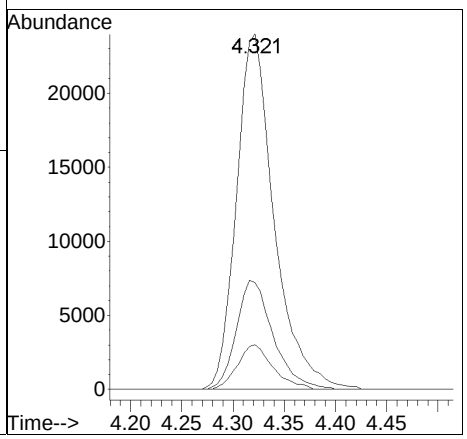


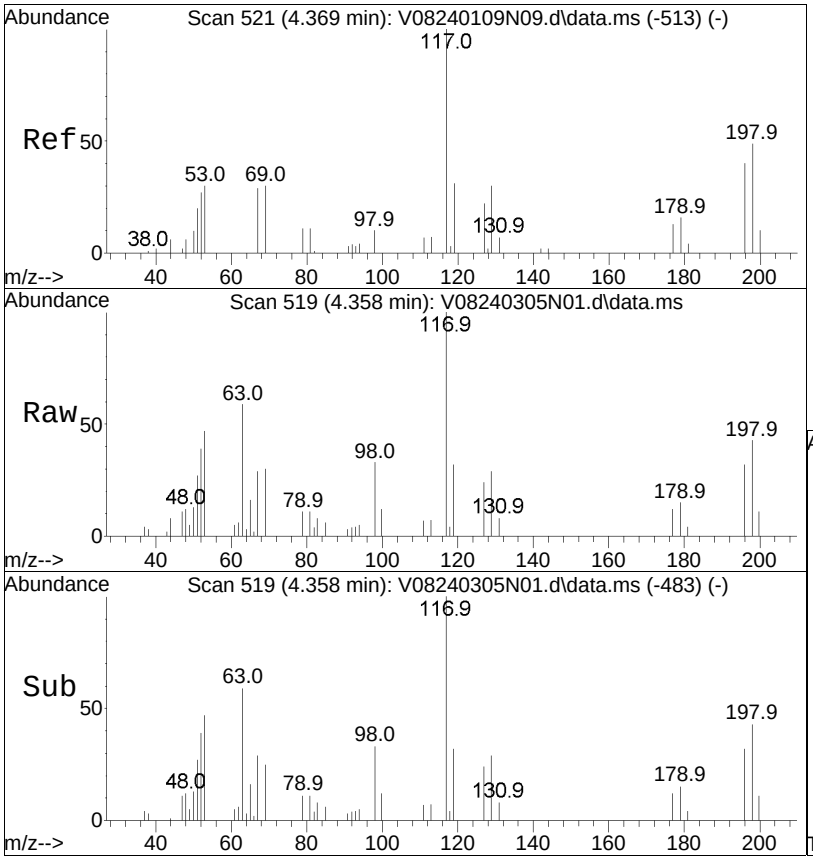


#23
1,1-Dichloroethane
Concen: 9.73 ug/L
RT: 4.321 min Scan# 512
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 63 Resp: 61443

Ion	Ratio	Lower	Upper
63	100		
65	30.0	11.0	51.0
83	11.9	0.0	31.8

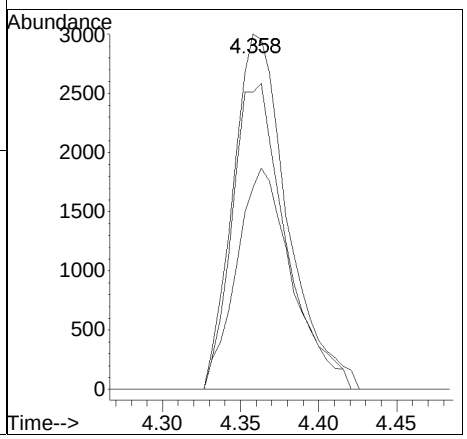


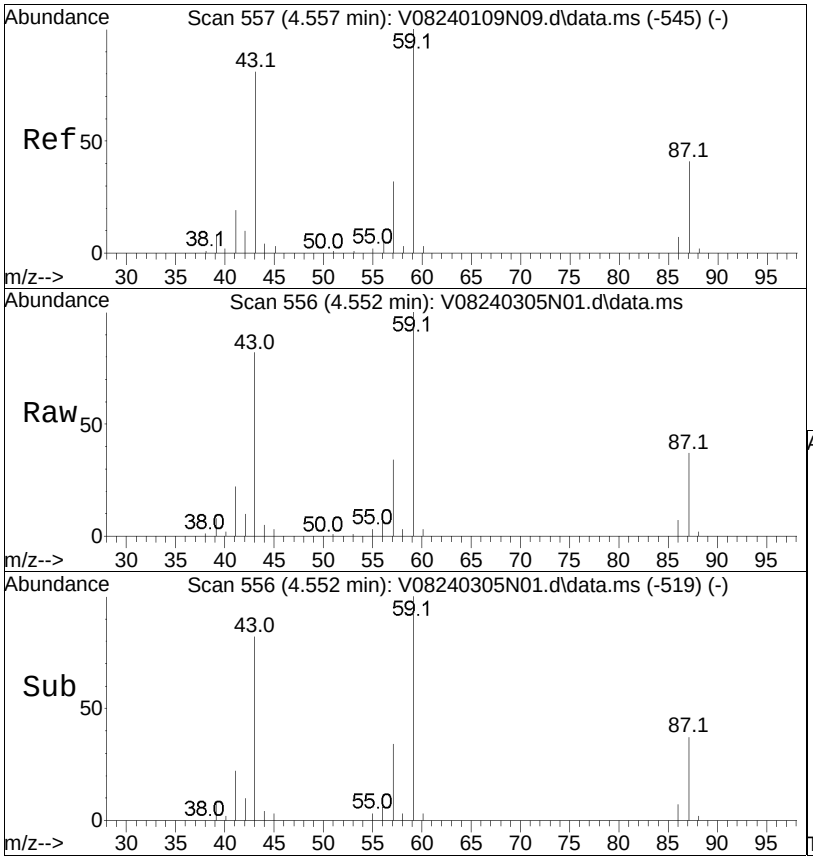


#25
Acrylonitrile
Concen: 11.47 ug/L
RT: 4.358 min Scan# 519
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 53 Resp: 7306

Ion	Ratio	Lower	Upper
53	100		
52	84.5	66.7	100.1
51	63.7	30.6	46.0#

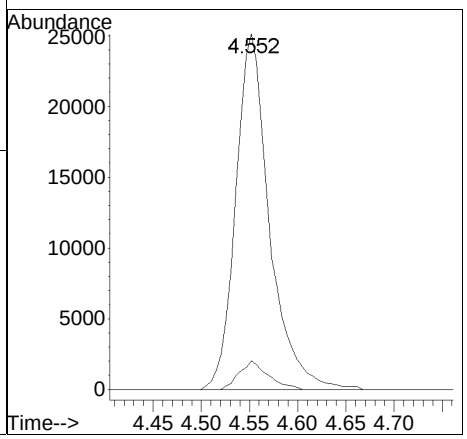


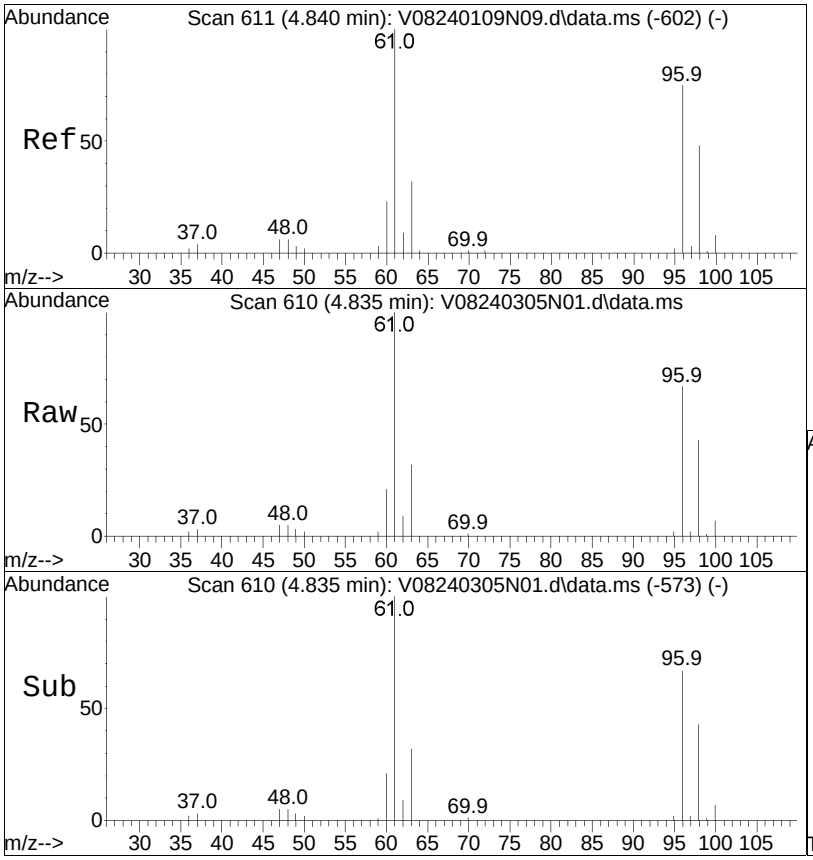


#27
Vinyl acetate
Concen: 9.81 ug/L
RT: 4.552 min Scan# 556
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 43 Resp: 61118

Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.2	7.8

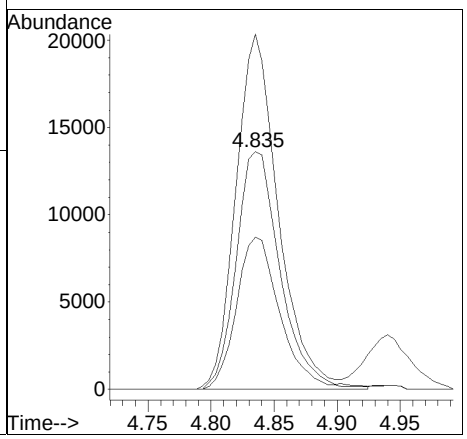


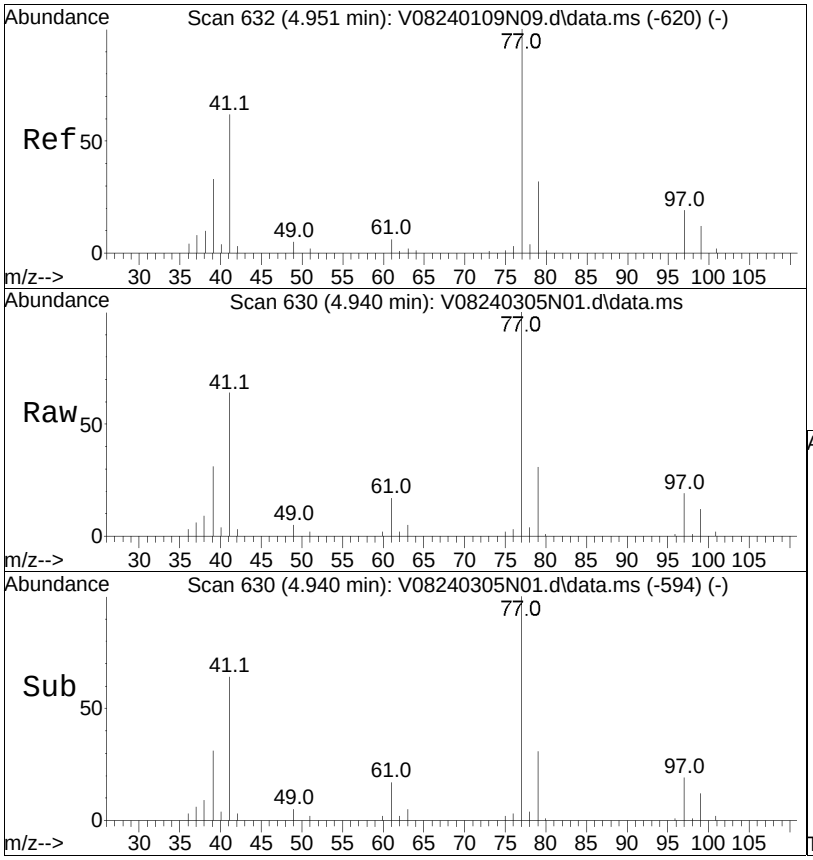


#28
cis-1,2-Dichloroethene
Concen: 8.91 ug/L
RT: 4.835 min Scan# 610
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 96 Resp: 33187

Ion	Ratio	Lower	Upper
96	100		
61	144.0	149.4	224.2#
98	63.1	53.4	80.2

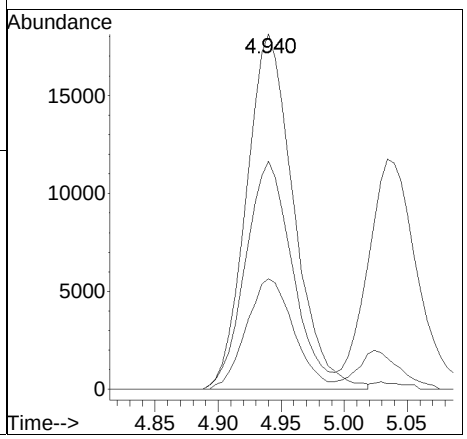


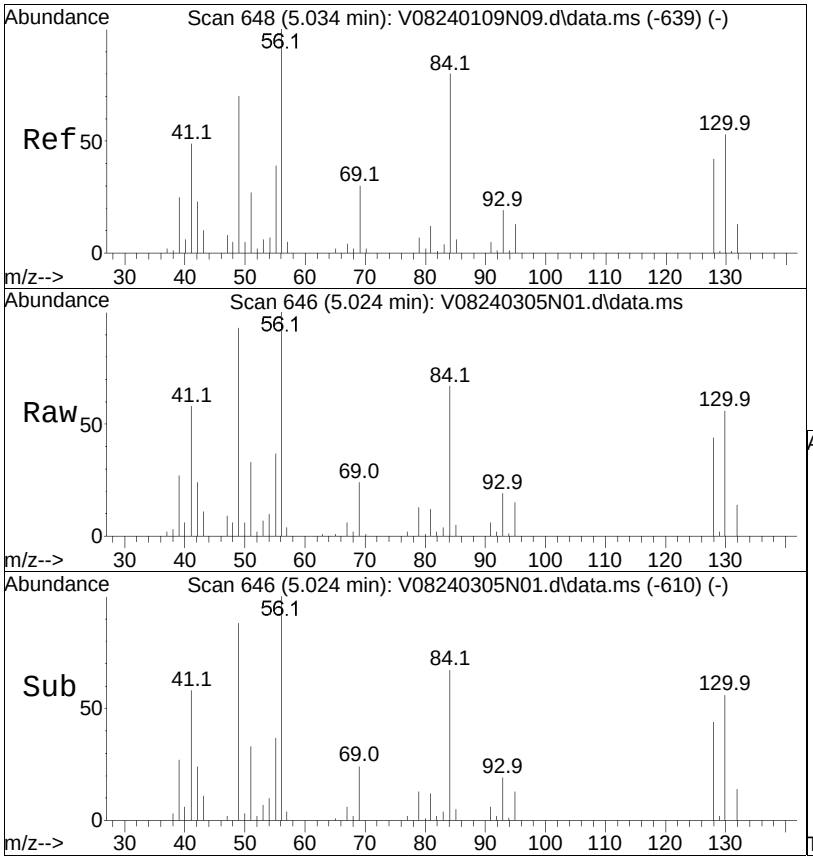


#29
2,2-Dichloropropane
Concen: 9.25 ug/L
RT: 4.940 min Scan# 630
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 77 Resp: 47352

Ion	Ratio	Lower	Upper
77	100		
41	64.0	38.0	78.8
79	31.2	20.5	42.5

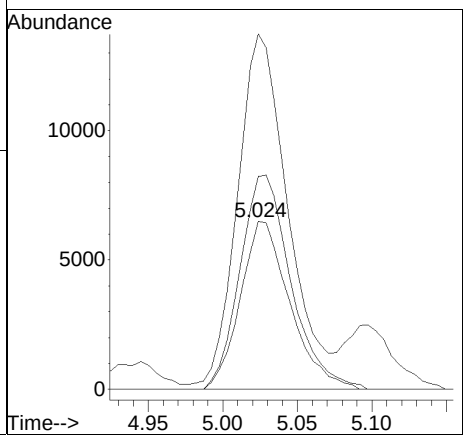


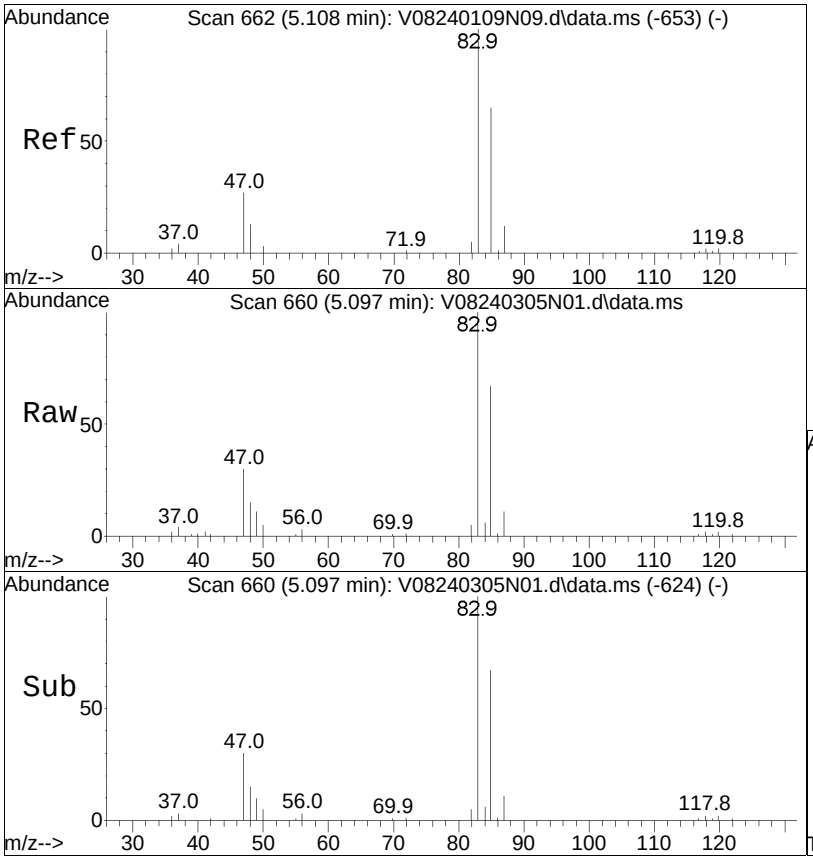


#30
Bromochloromethane
Concen: 8.68 ug/L
RT: 5.024 min Scan# 646
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:128 Resp: 15068

Ion	Ratio	Lower	Upper
128	100		
49	213.1	223.0	334.4#
130	131.1	111.4	167.0

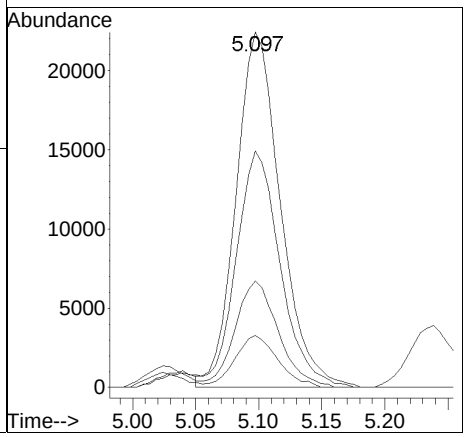


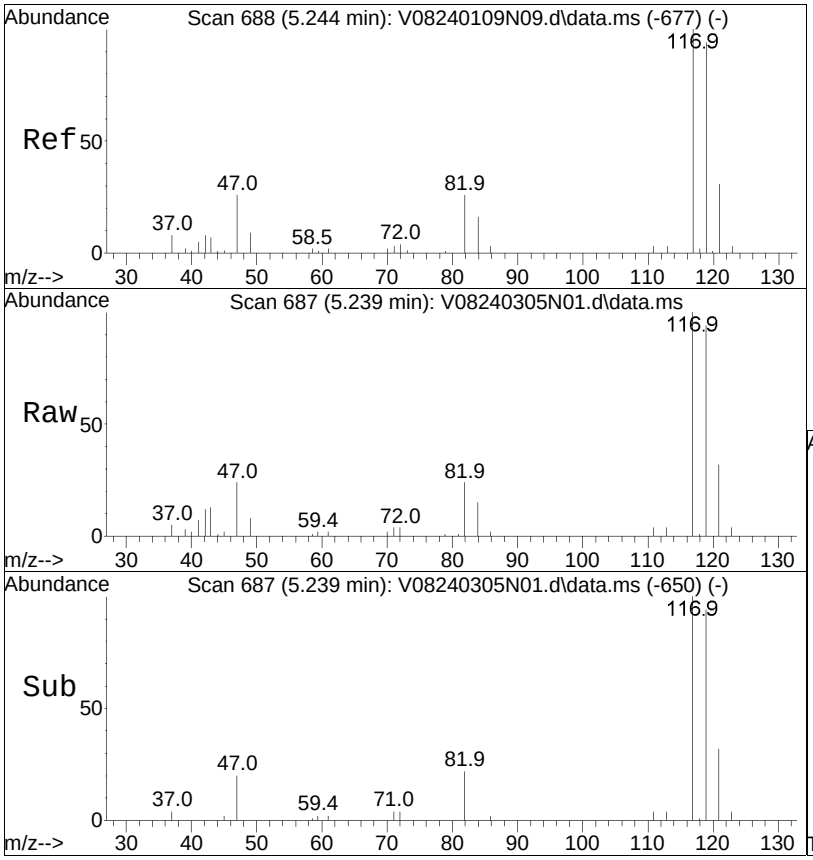


#32
Chloroform
Concen: 9.16 ug/L
RT: 5.097 min Scan# 660
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 83 Resp: 54976

Ion	Ratio	Lower	Upper
83	100		
85	65.8	41.5	86.1
47	29.3	19.0	39.4
48	14.2	9.9	20.5

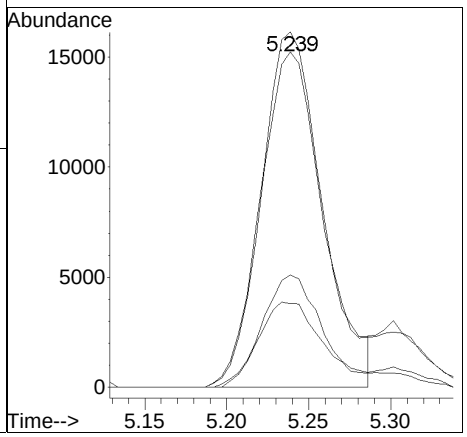


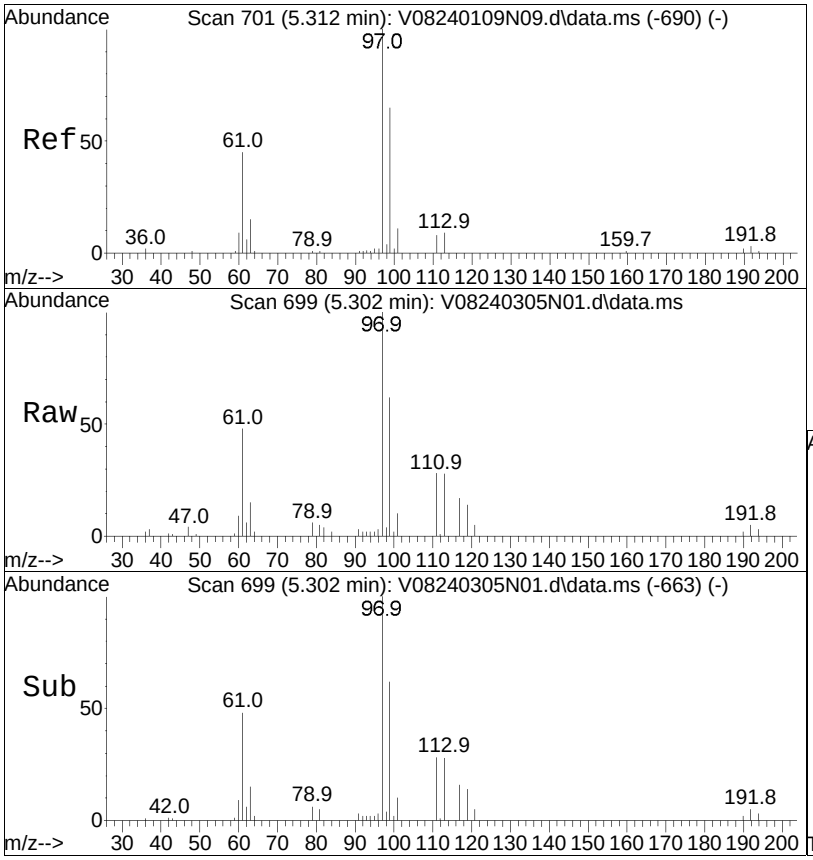


#34
Carbon tetrachloride
Concen: 8.99 ug/L
RT: 5.239 min Scan# 687
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:117 Resp: 42115

Ion	Ratio	Lower	Upper
117	100		
119	95.3	62.4	129.6
121	31.2	19.5	40.5
82	28.3	17.0	35.4

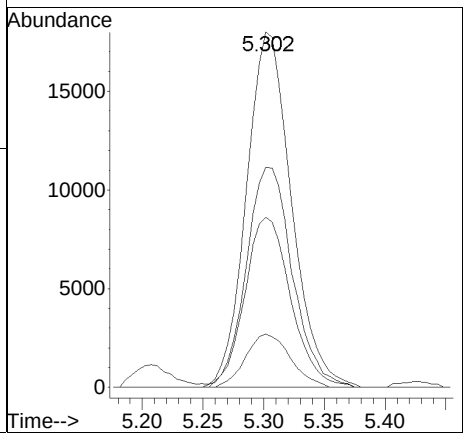


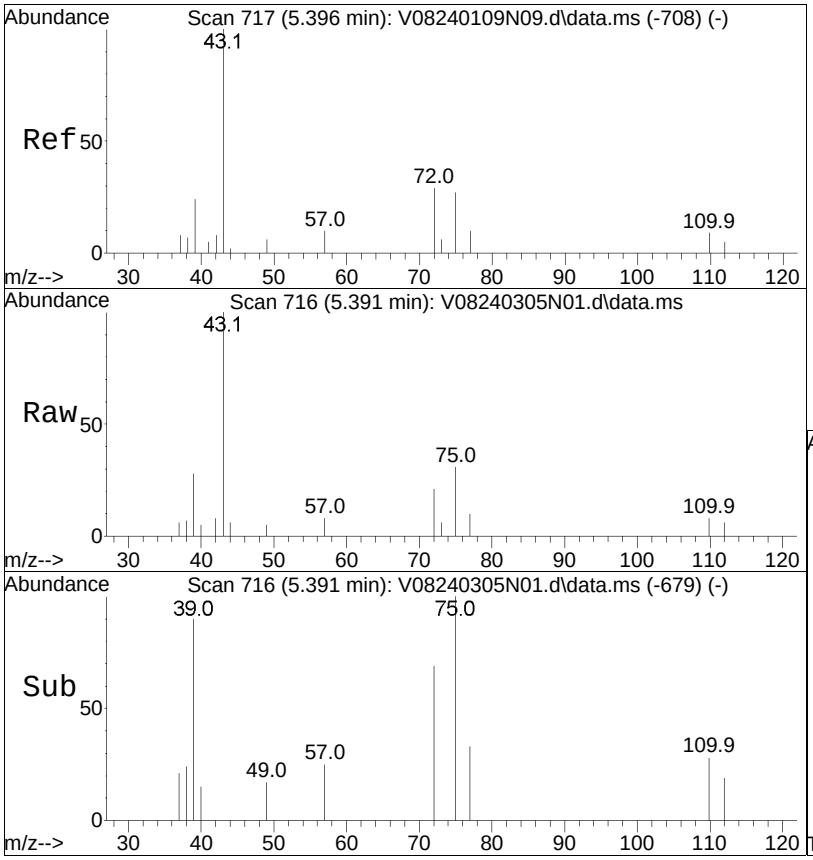


#37
1,1,1-Trichloroethane
Concen: 8.84 ug/L
RT: 5.302 min Scan# 699
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 97 Resp: 46535

Ion	Ratio	Lower	Upper
97	100		
99	63.5	40.7	84.5
61	48.9	35.4	73.4
63	14.9	5.0	10.4#

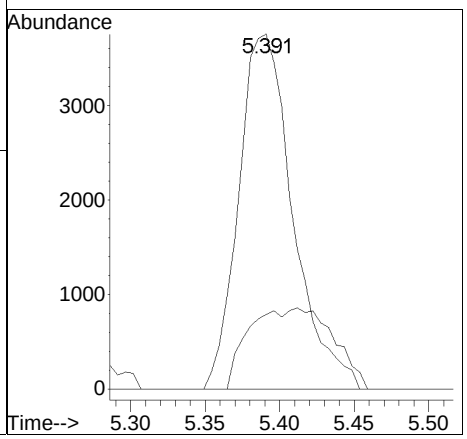


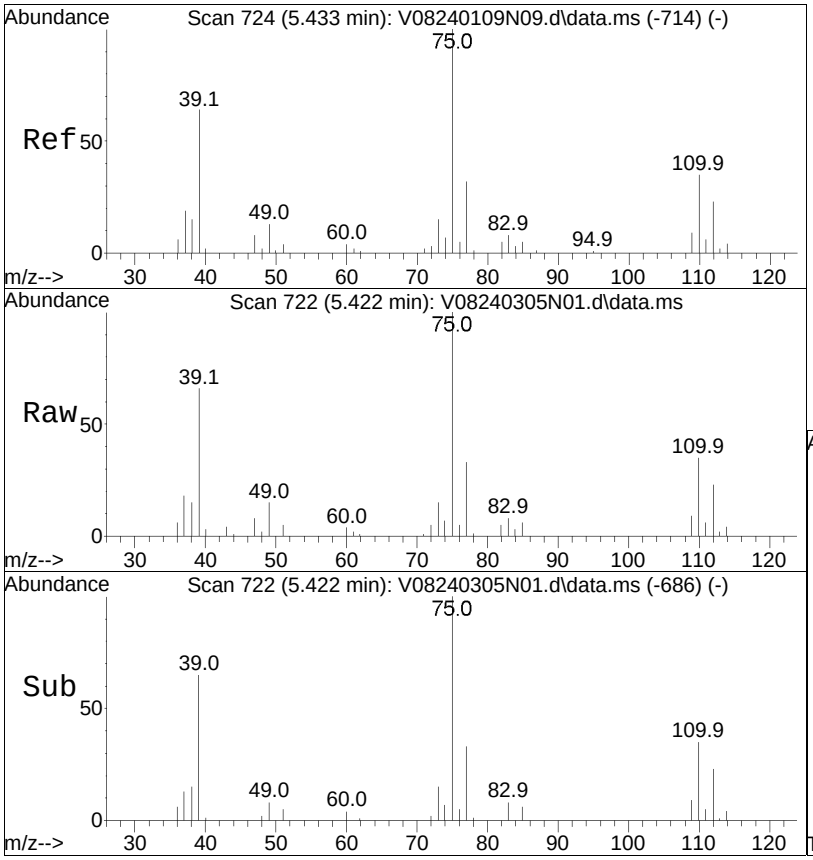


#39
2-Butanone
Concen: 11.29 ug/L
RT: 5.391 min Scan# 716
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 43 Resp: 9510

Ion	Ratio	Lower	Upper
43	100		
72	15.6	10.9	16.3

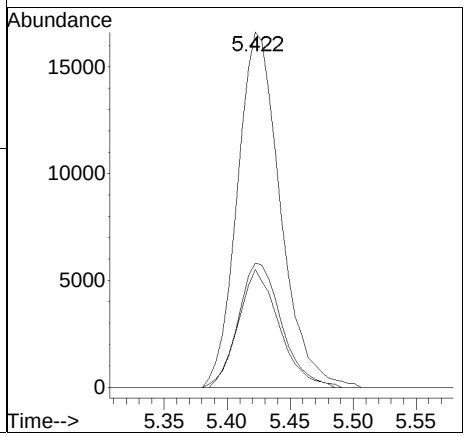


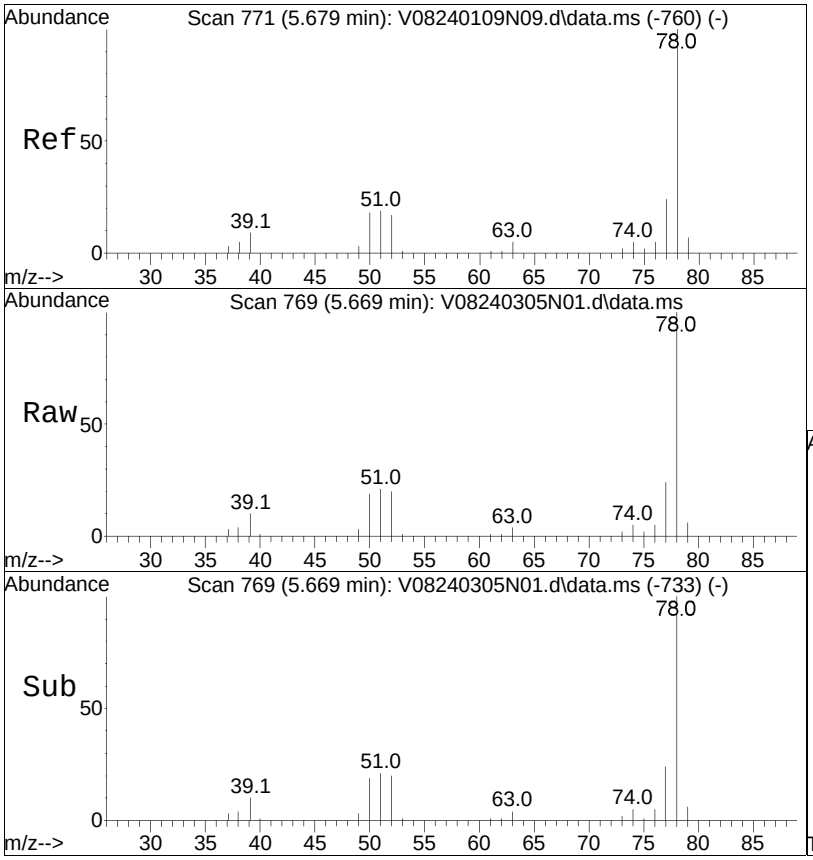


#40
1,1-Dichloropropene
Concen: 8.87 ug/L
RT: 5.422 min Scan# 722
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 75 Resp: 39390

Ion	Ratio	Lower	Upper
75	100		
110	35.2	20.2	41.9
77	31.6	20.1	41.7

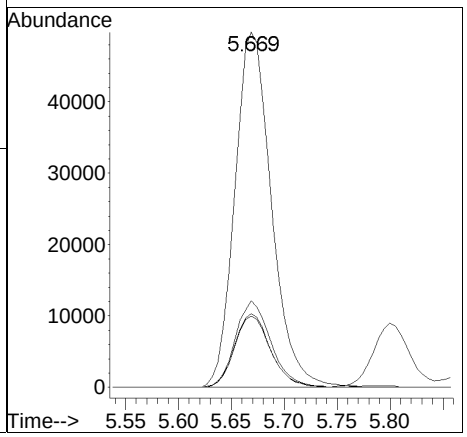


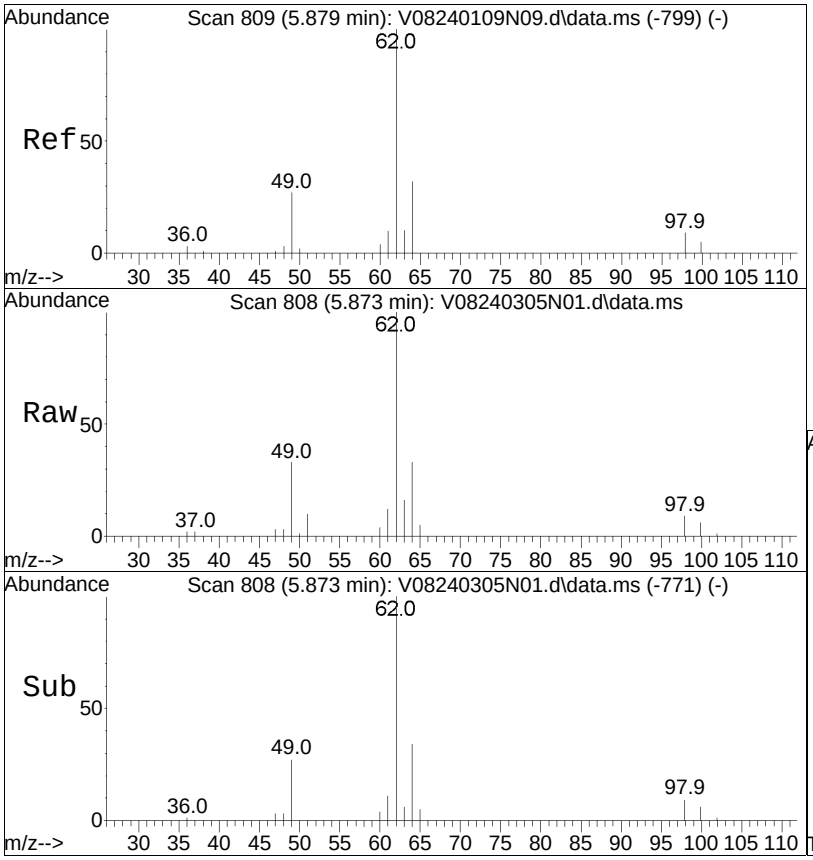


#41
Benzene
Concen: 9.29 ug/L
RT: 5.669 min Scan# 769
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 78 Resp: 120177

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.7	32.7
51	20.4	16.0	33.2
52	19.9	15.3	31.9

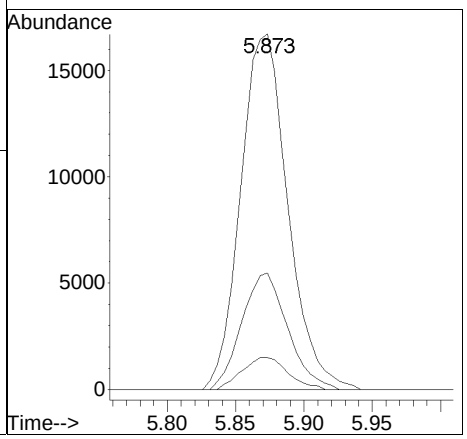


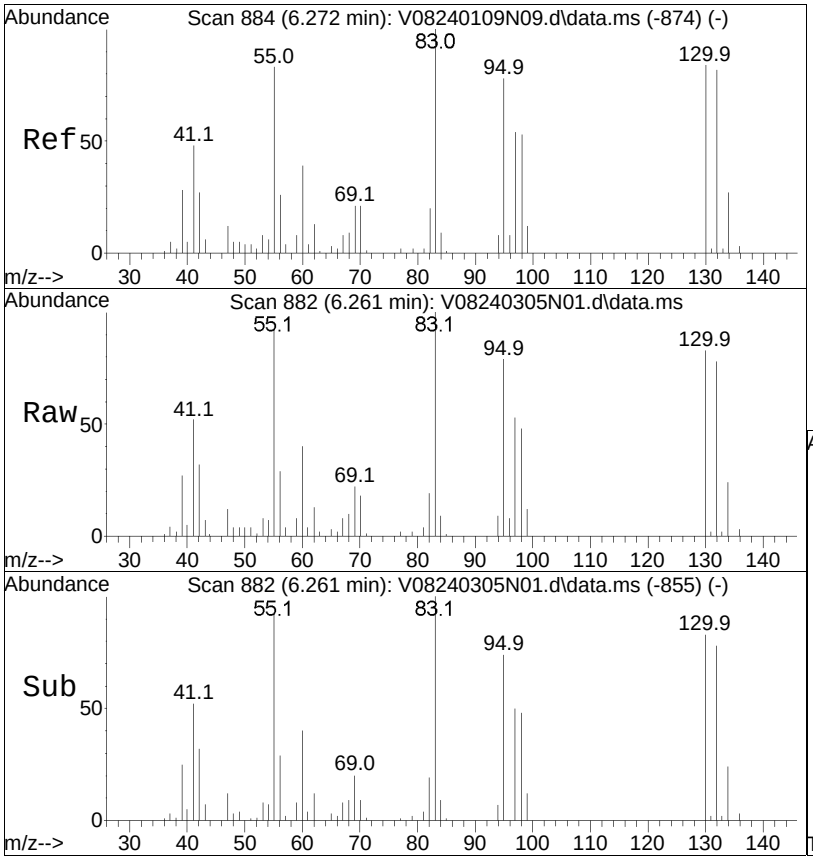


#44
1,2-Dichloroethane
Concen: 9.36 ug/L
RT: 5.873 min Scan# 808
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 62 Resp: 40171

Ion	Ratio	Lower	Upper
62	100		
64	31.8	11.2	51.2
98	8.7	0.0	26.1

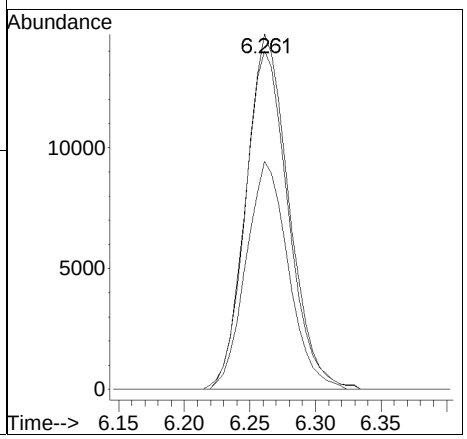


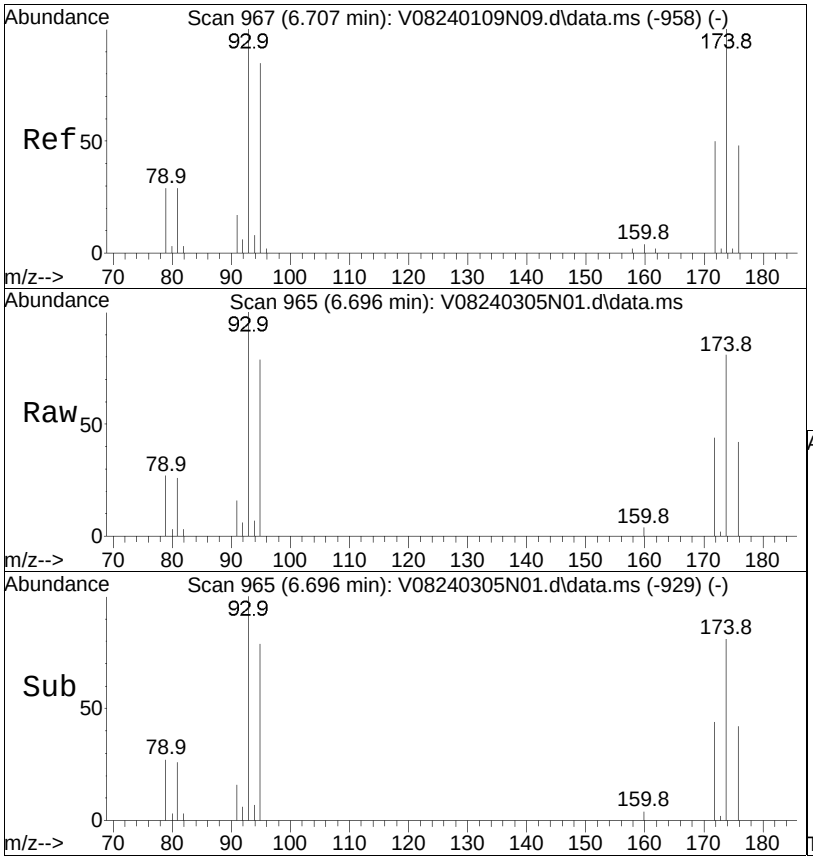


#48
Trichloroethene
Concen: 9.45 ug/L
RT: 6.261 min Scan# 882
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 95 Resp: 31996

Ion	Ratio	Lower	Upper
95	100		
97	66.4	55.5	83.3
130	104.1	76.6	115.0

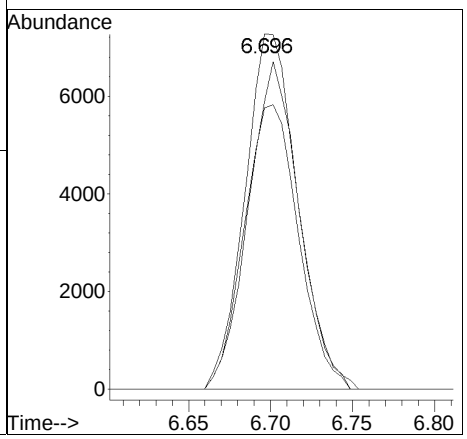


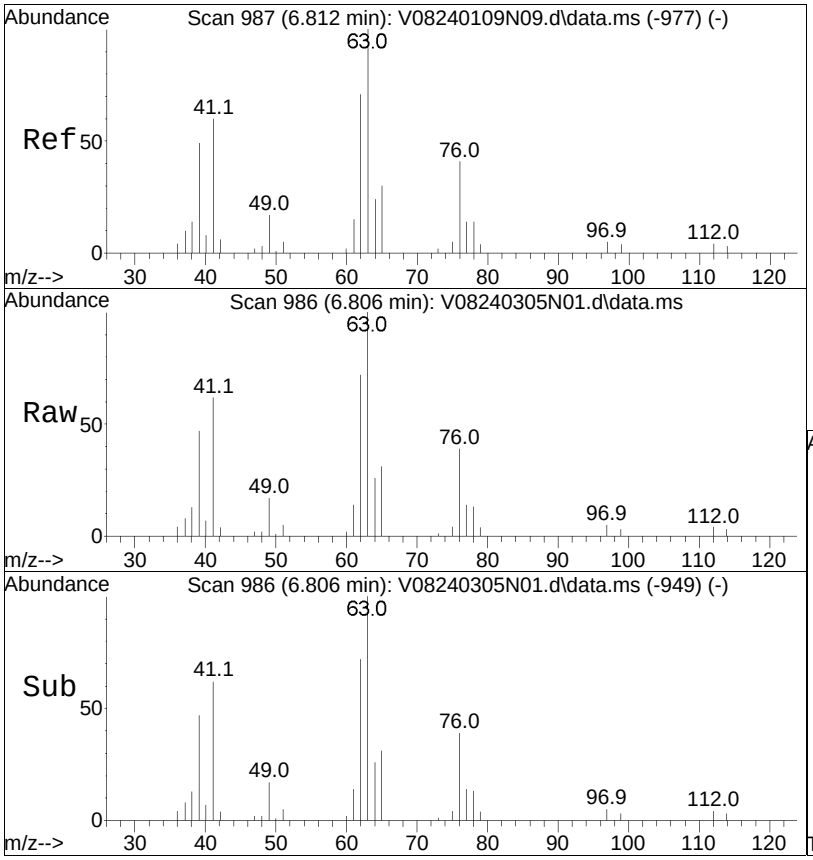


#50
Dibromomethane
Concen: 8.71 ug/L
RT: 6.696 min Scan# 965
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 93 Resp: 16376

Ion	Ratio	Lower	Upper
93	100		
95	81.9	67.0	100.4
174	88.3	75.0	112.4

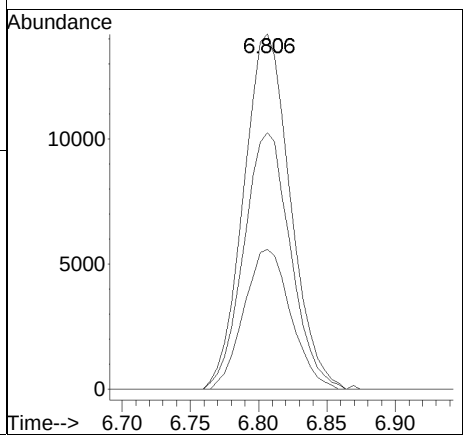


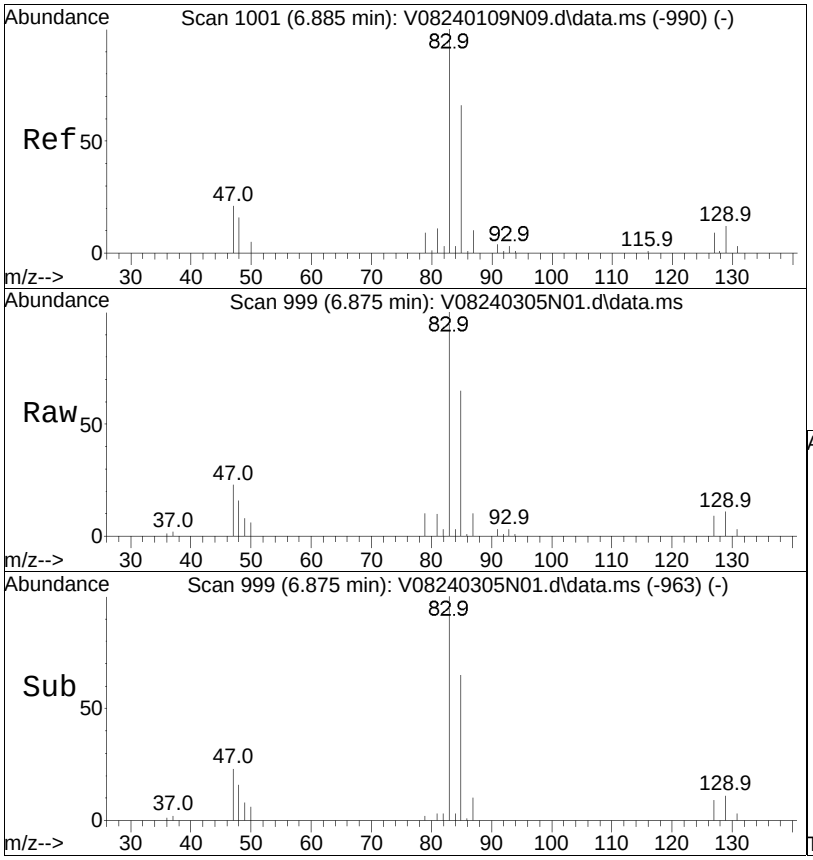


#51
1,2-Dichloropropane
Concen: 9.70 ug/L
RT: 6.806 min Scan# 986
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 63 Resp: 33913

Ion	Ratio	Lower	Upper
63	100		
62	72.2	58.6	87.8
76	39.5	38.0	57.0

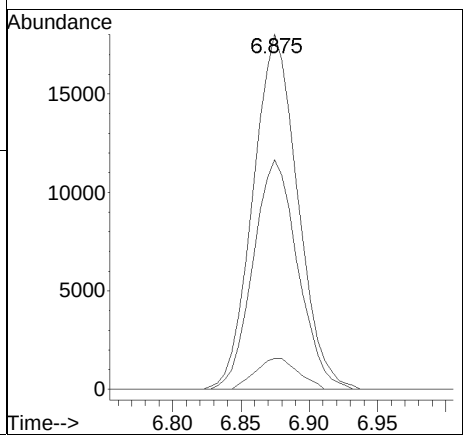


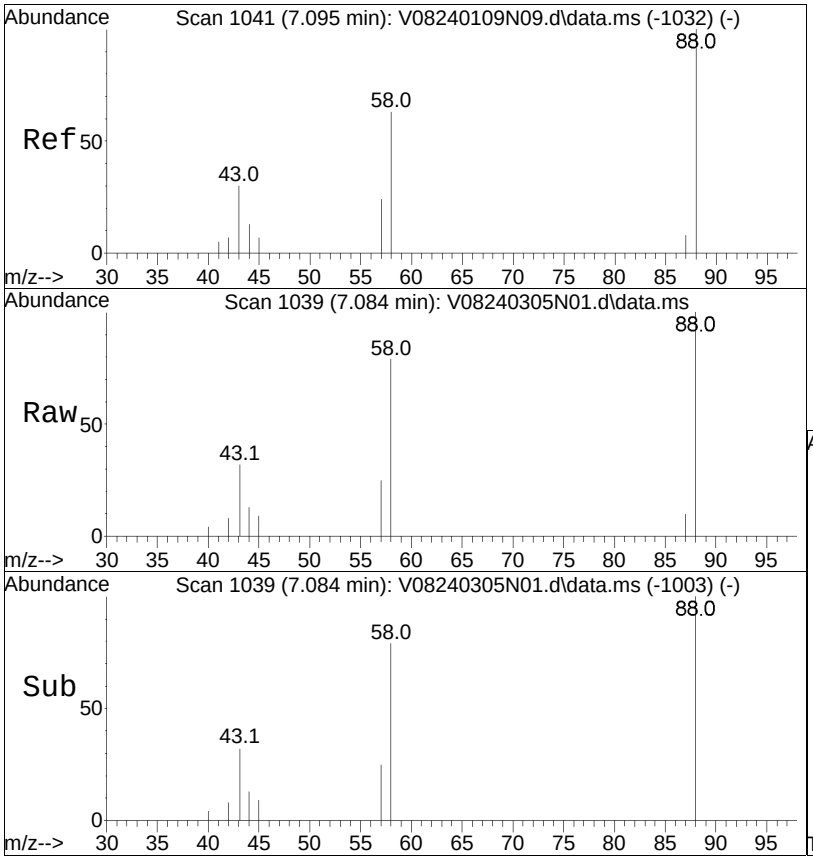


#54
Bromodichloromethane
Concen: 8.94 ug/L
RT: 6.875 min Scan# 999
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 83 Resp: 41110

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.3	78.5
127	8.4	6.2	9.4

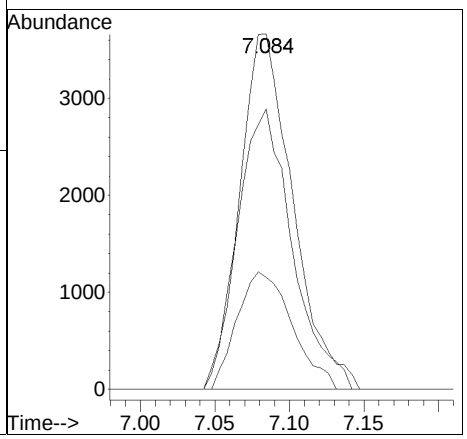


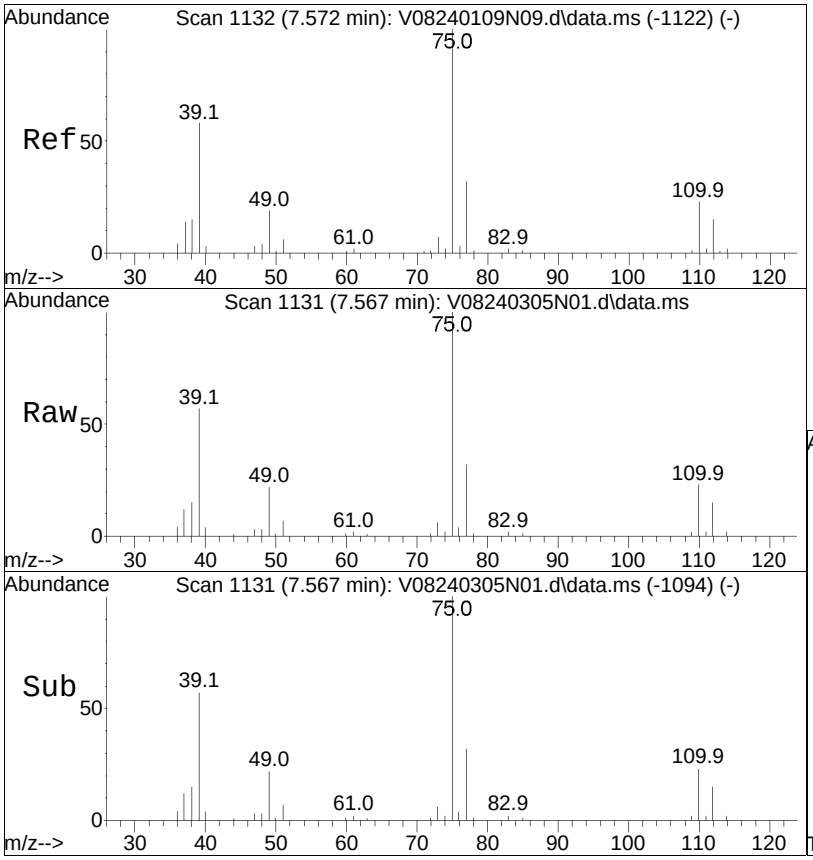


#57
1,4-Dioxane
Concen: 754.51 ug/L
RT: 7.084 min Scan# 1039
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 88 Resp: 9116

Ion	Ratio	Lower	Upper
88	100		
58	81.0	76.7	115.1
43	34.2	36.2	54.2#

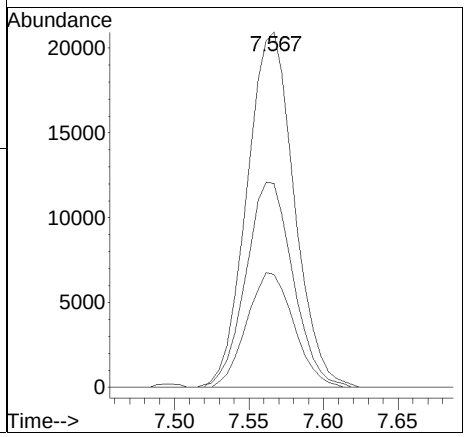


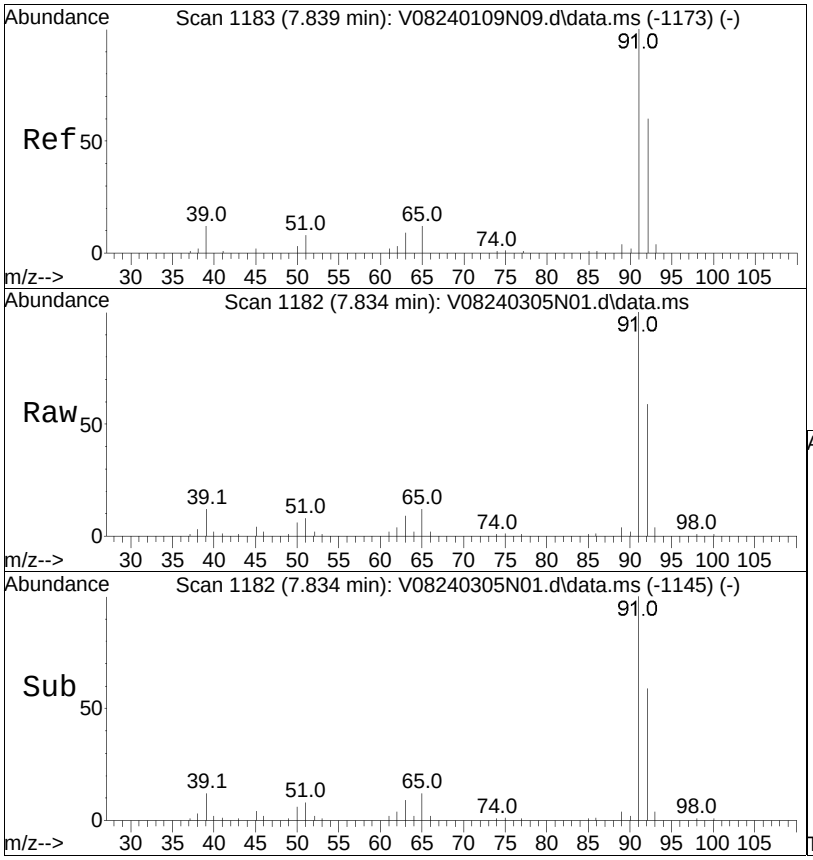


#58
cis-1,3-Dichloropropene
Concen: 8.64 ug/L
RT: 7.567 min Scan# 1131
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 75 Resp: 46223

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.0	37.4
39	57.8	50.1	75.1

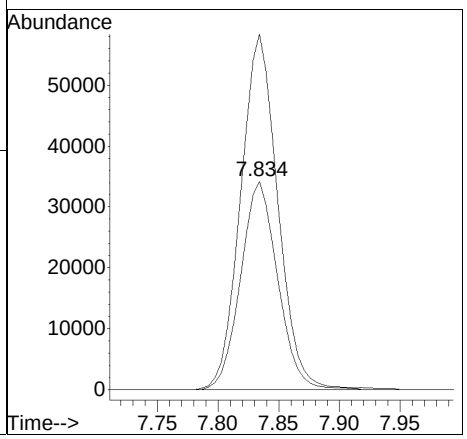


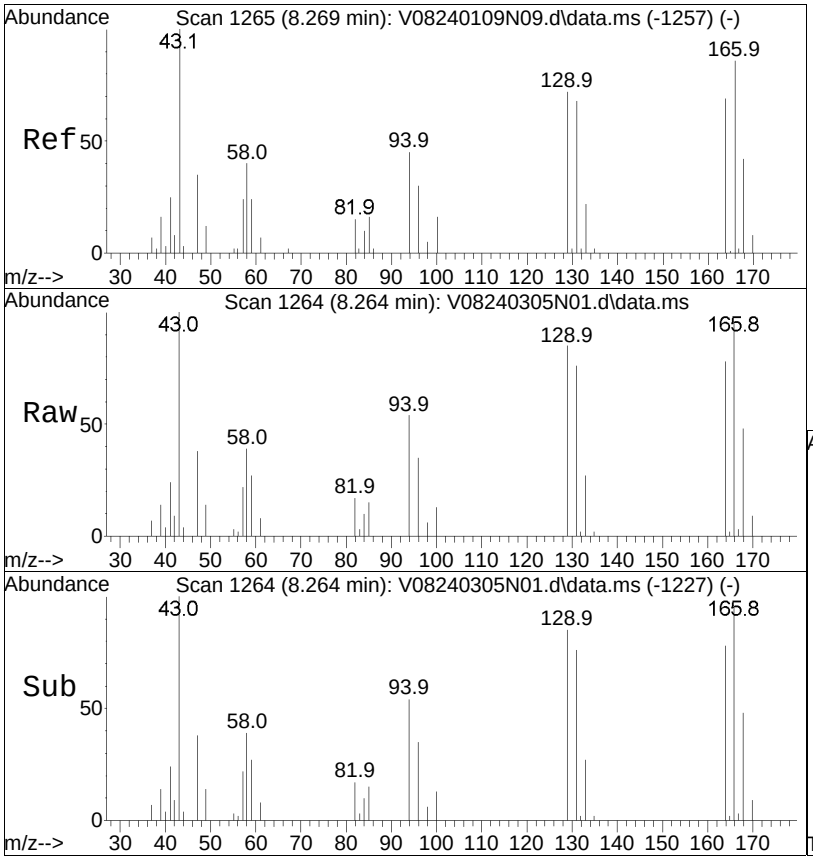


#61
Toluene
Concen: 9.52 ug/L
RT: 7.834 min Scan# 1182
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 92 Resp: 72360

Ion	Ratio	Lower	Upper
92	100		
91	171.6	139.8	209.6

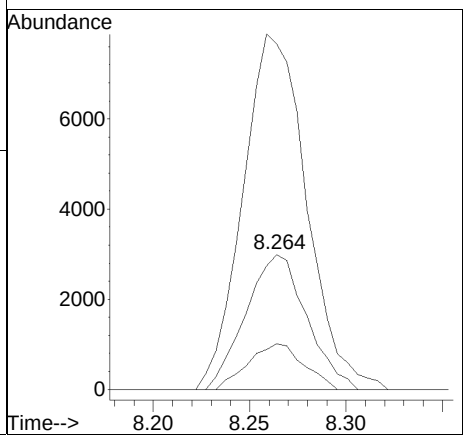


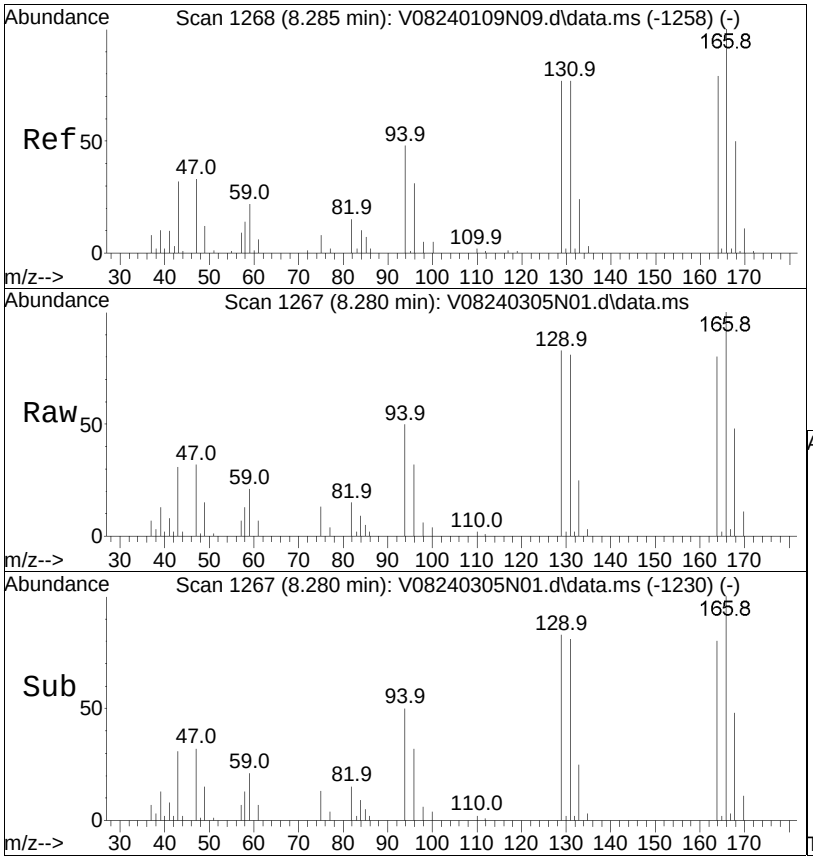


#62
4-Methyl-2-pentanone
Concen: 8.80 ug/L
RT: 8.264 min Scan# 1264
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 58 Resp: 6547

Ion	Ratio	Lower	Upper
58	100		
100	31.0	20.2	30.2#
43	276.1	196.6	295.0

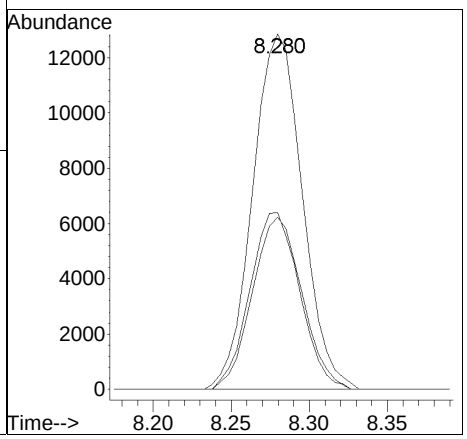


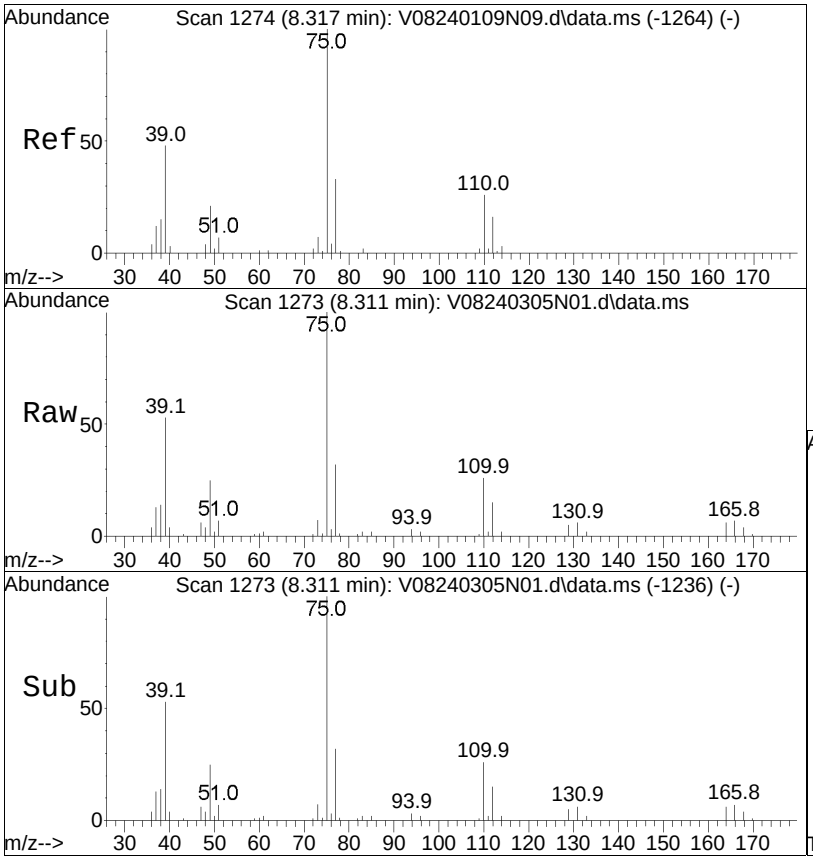


#63
Tetrachloroethene
Concen: 8.77 ug/L
RT: 8.280 min Scan# 1267
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:166 Resp: 28489

Ion	Ratio	Lower	Upper
166	100		
168	48.3	28.2	68.2
94	49.7	38.4	78.4

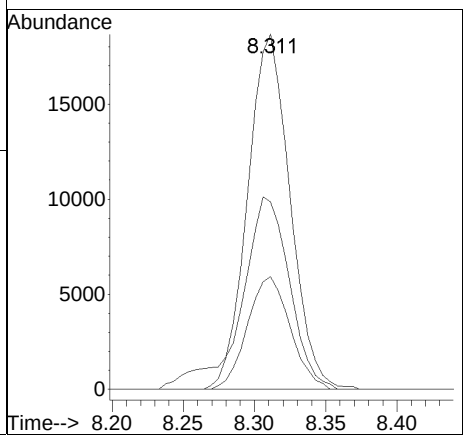


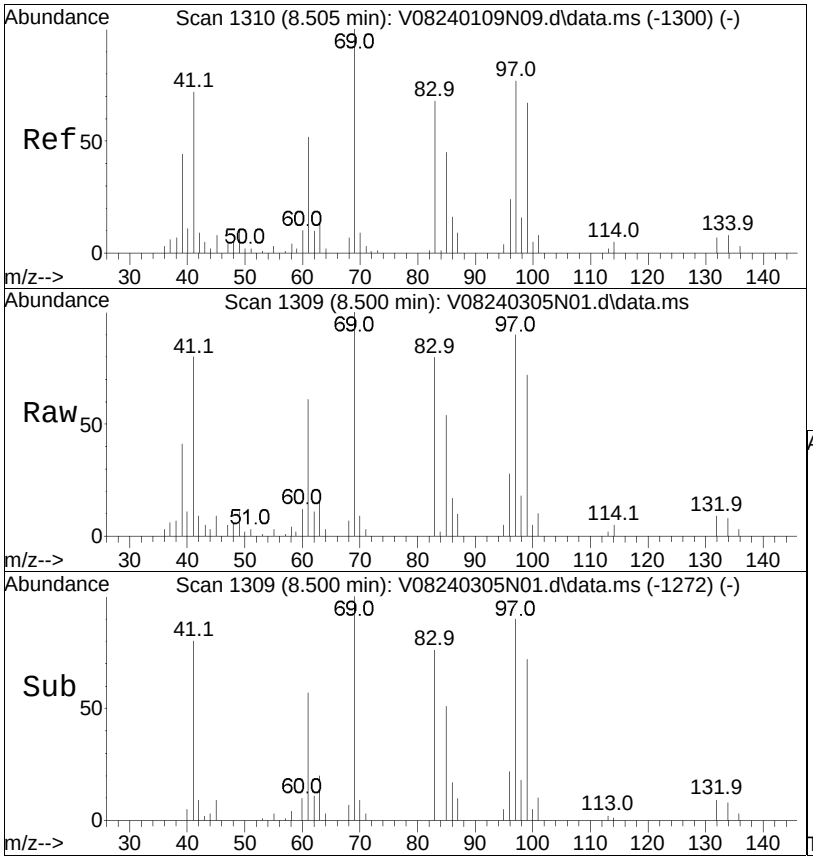


#65
trans-1,3-Dichloropropene
Concen: 9.21 ug/L
RT: 8.311 min Scan# 1273
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 75 Resp: 38663

Ion	Ratio	Lower	Upper
75	100		
77	32.0	12.4	52.4
39	61.6	42.8	82.8

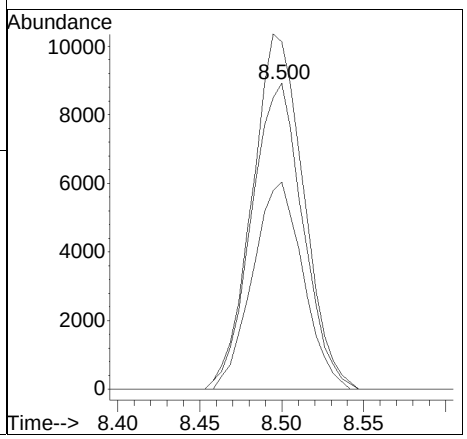


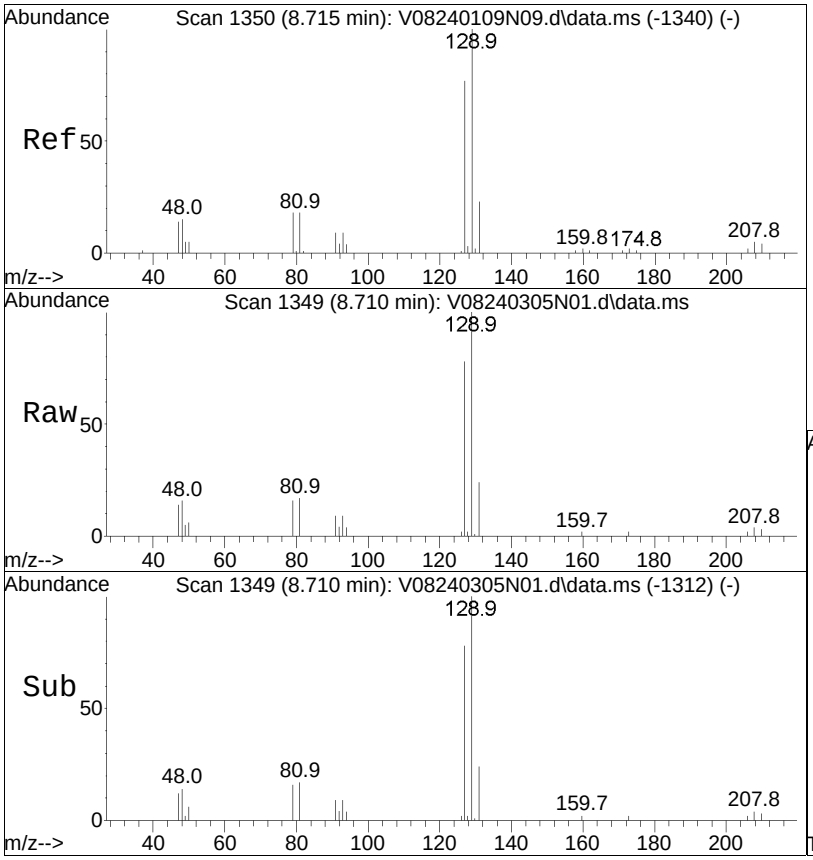


#68
1,1,2-Trichloroethane
Concen: 10.16 ug/L
RT: 8.500 min Scan# 1309
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 83 Resp: 19448

Ion	Ratio	Lower	Upper
83	100		
97	116.4	89.8	129.8
85	66.7	44.4	84.4

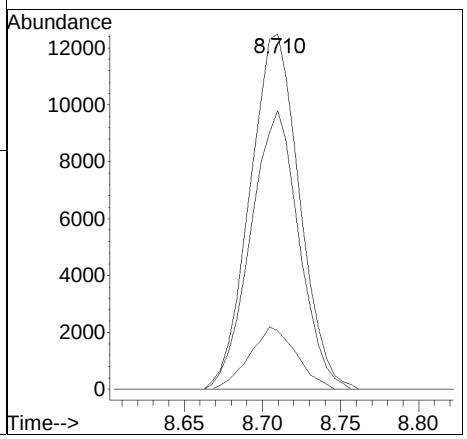


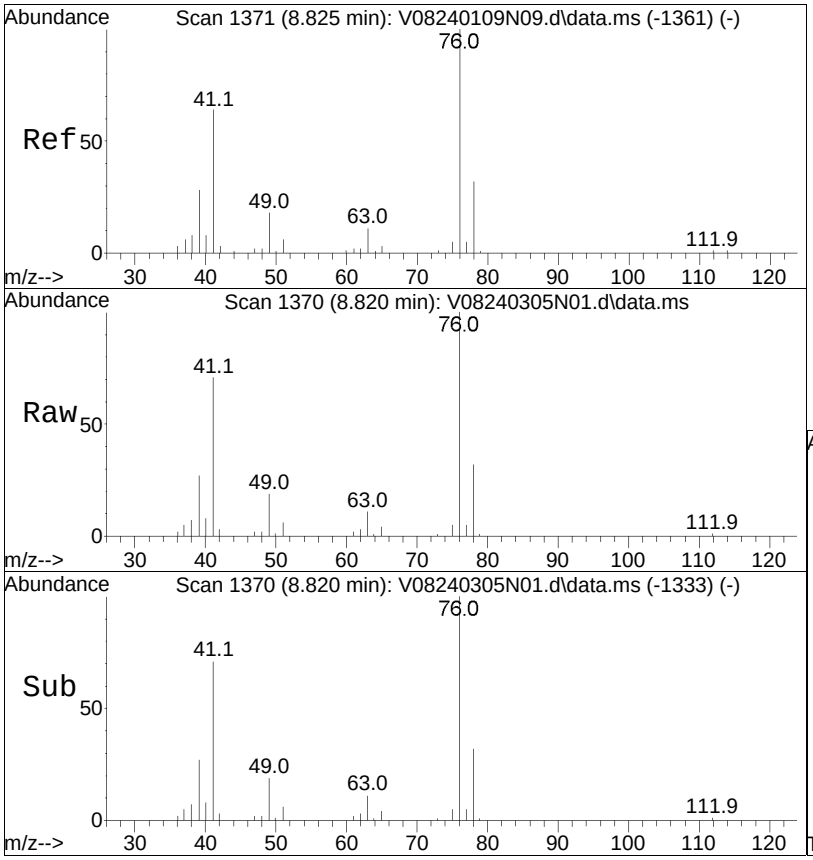


#69
Chlorodibromomethane
Concen: 9.06 ug/L
RT: 8.710 min Scan# 1349
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:129 Resp: 27622

Ion	Ratio	Lower	Upper
129	100		
81	16.6	2.9	42.9
127	76.7	57.8	97.8

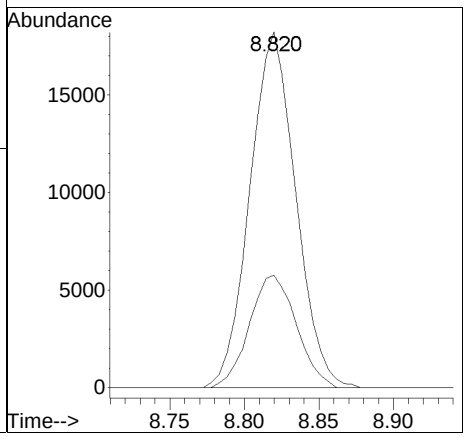


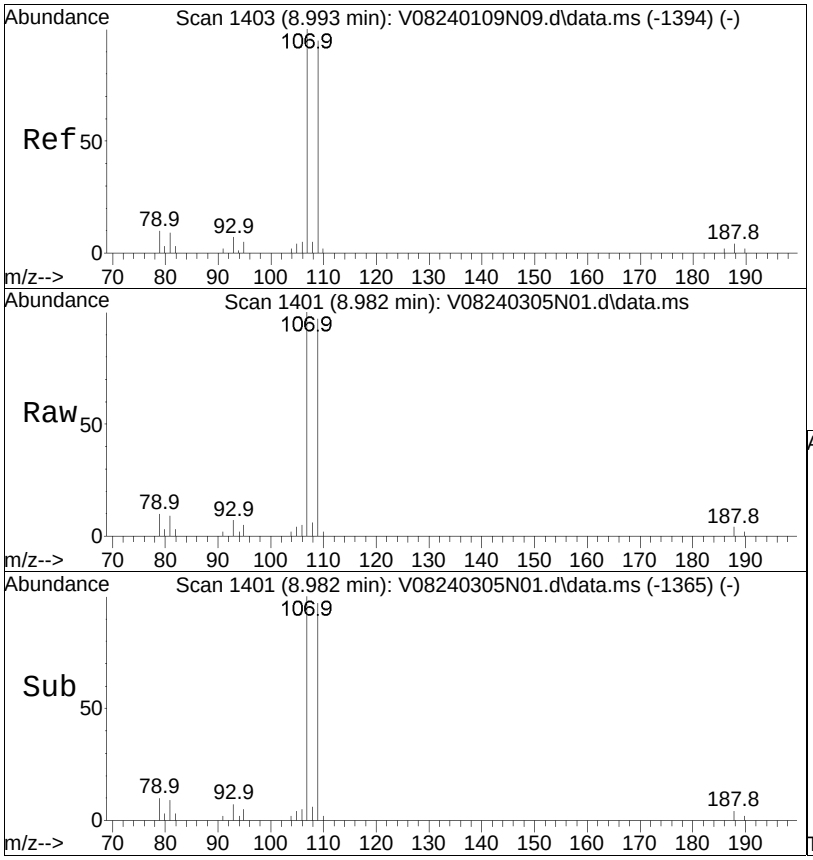


#70
1,3-Dichloropropane
Concen: 9.76 ug/L
RT: 8.820 min Scan# 1370
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 76 Resp: 38884

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

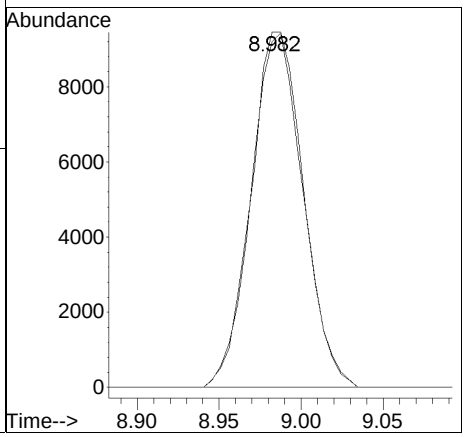


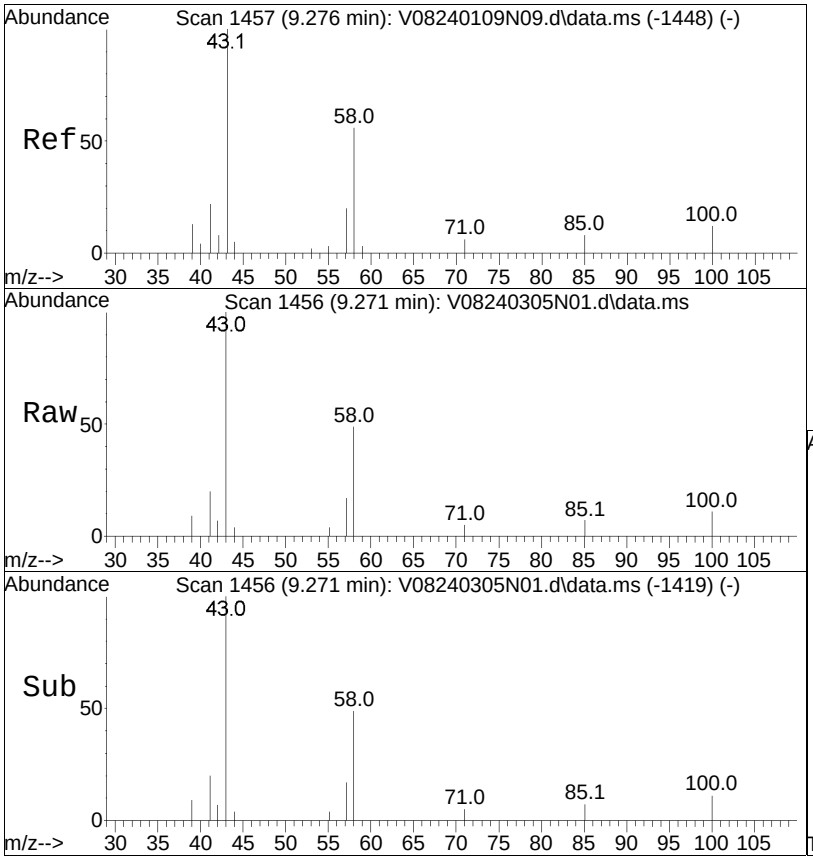


#71
1,2-Dibromoethane
Concen: 9.13 ug/L
RT: 8.982 min Scan# 1401
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:107 Resp: 21149

Ion	Ratio	Lower	Upper
107	100		
109	97.9	74.3	111.5

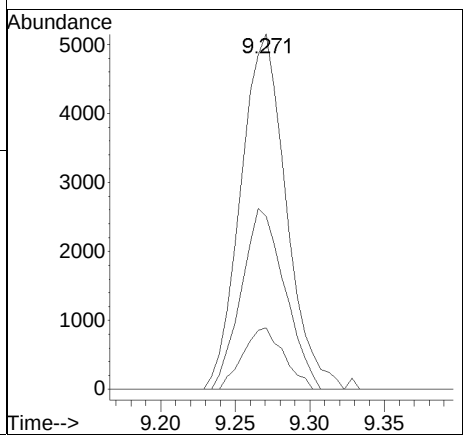


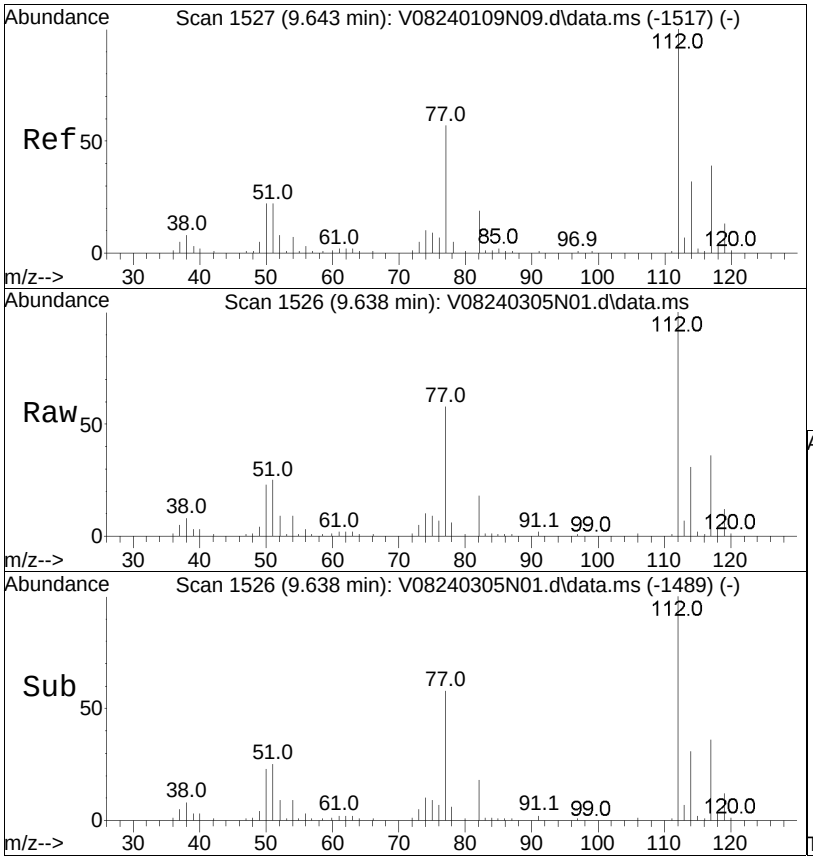


#72
2-Hexanone
Concen: 8.70 ug/L
RT: 9.271 min Scan# 1456
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 43 Resp: 10987

Ion	Ratio	Lower	Upper
43	100		
58	48.5	41.2	61.8
57	15.5	17.2	25.8#

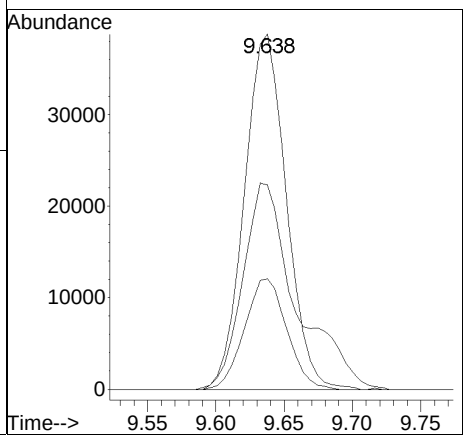


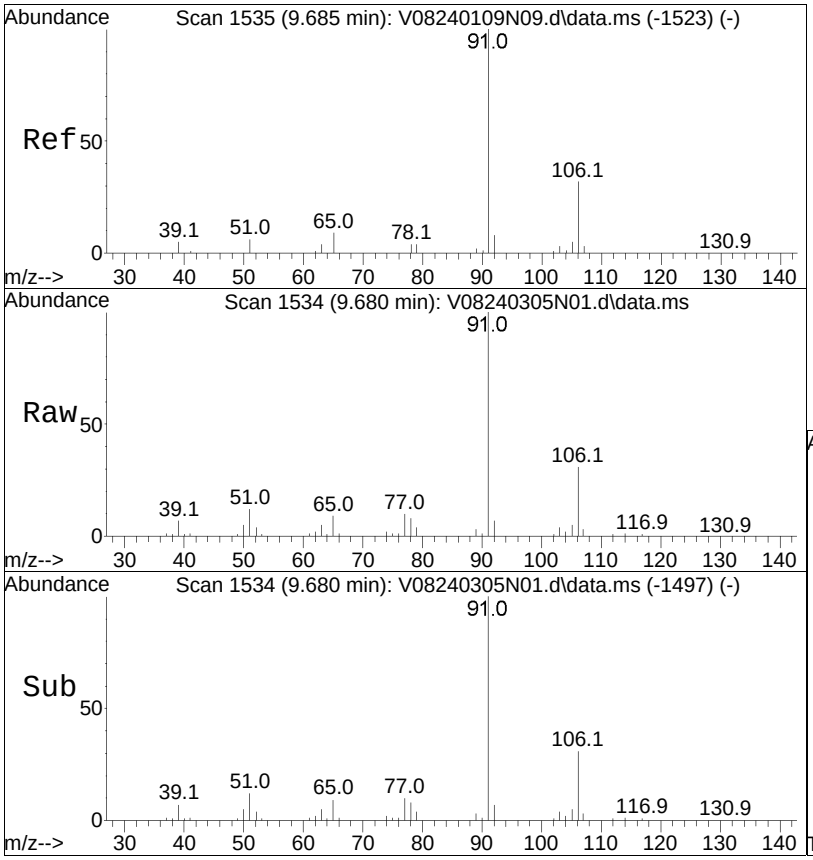


#73
Chlorobenzene
Concen: 9.29 ug/L
RT: 9.638 min Scan# 1526
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:112 Resp: 82742

Ion	Ratio	Lower	Upper
112	100		
77	74.0	55.4	83.0
114	31.4	25.4	38.2

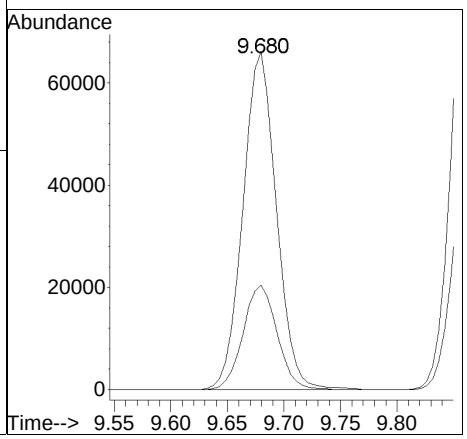


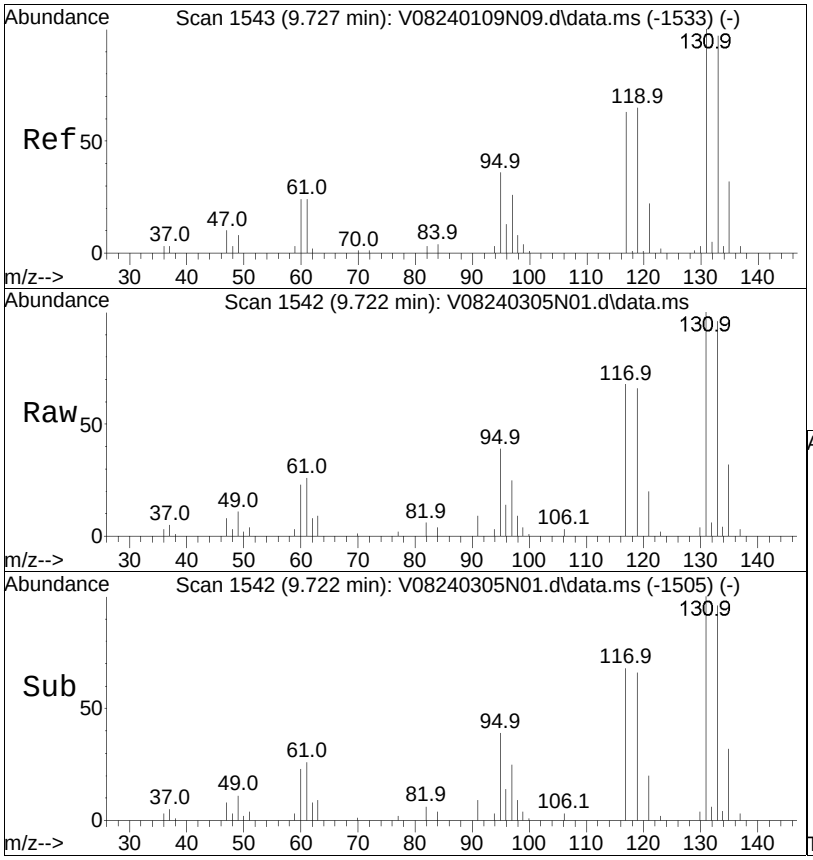


#74
Ethylbenzene
Concen: 9.20 ug/L
RT: 9.680 min Scan# 1534
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 91 Resp: 135674

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

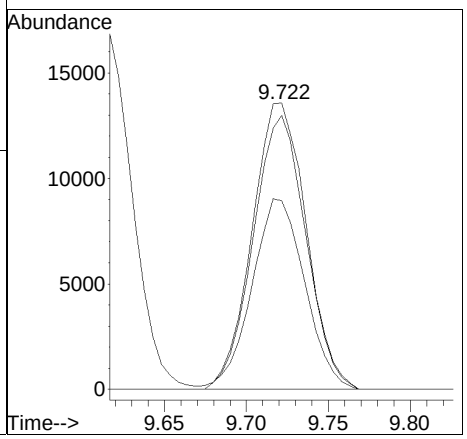


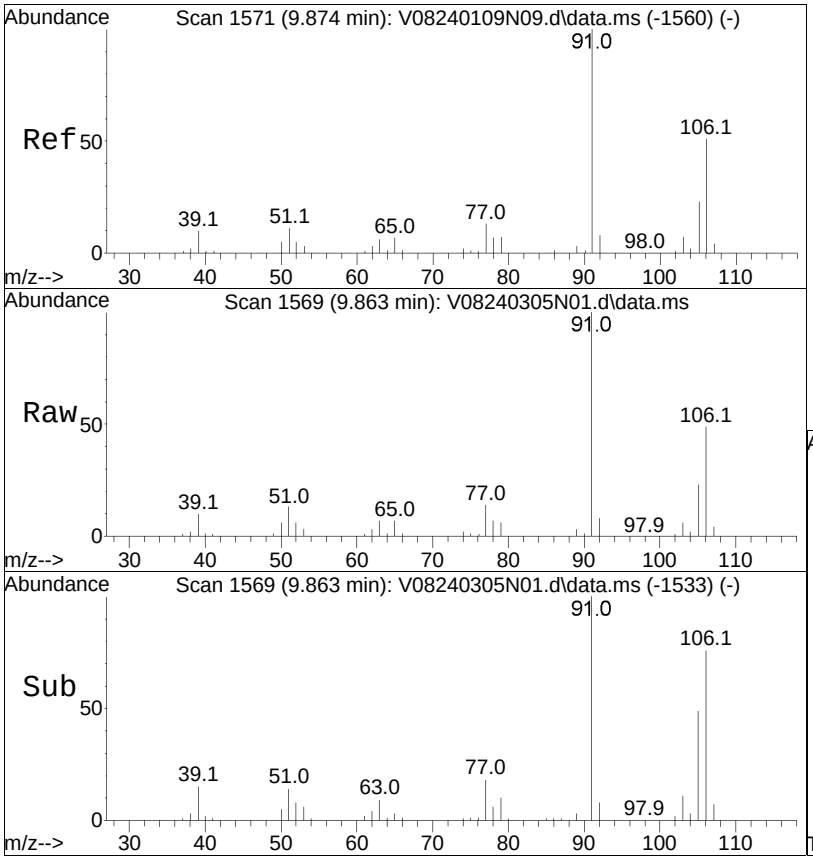


#75
1,1,1,2-Tetrachloroethane
Concen: 9.55 ug/L
RT: 9.722 min Scan# 1542
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:131 Resp: 31219

Ion	Ratio	Lower	Upper
131	100		
133	93.1	81.0	121.0
119	65.0	41.3	81.3

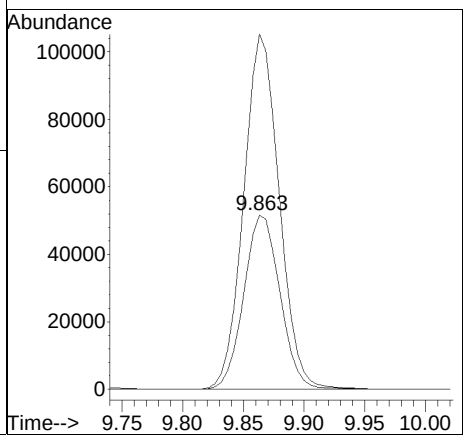


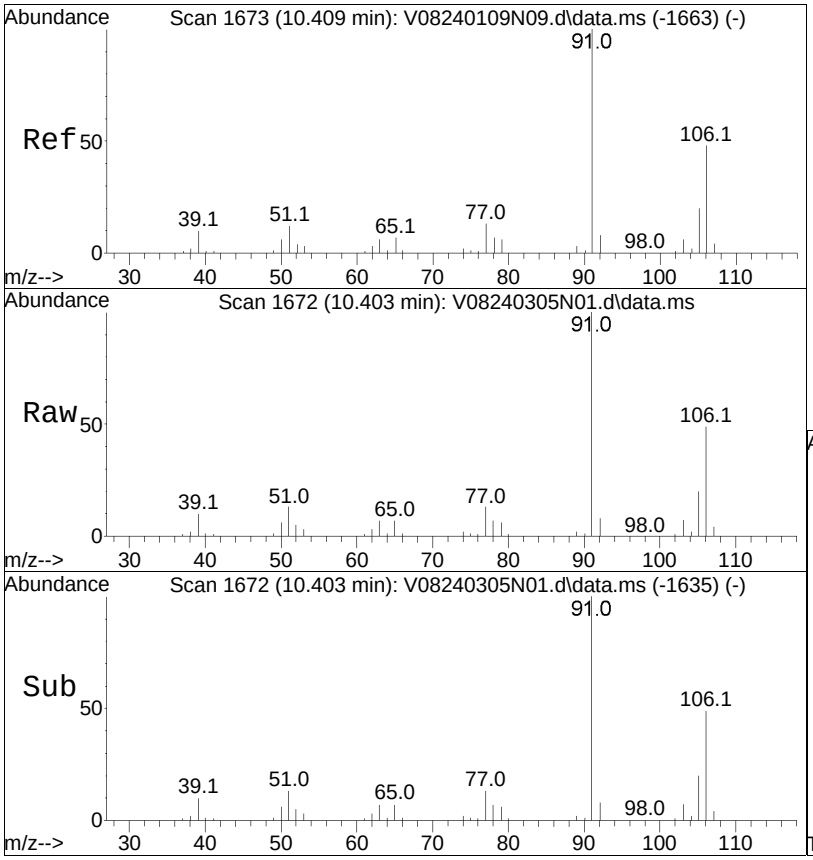


#76
p/m Xylene
Concen: 18.30 ug/L
RT: 9.863 min Scan# 1569
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:106 Resp: 107141

Ion	Ratio	Lower	Upper
106	100		
91	200.1	166.4	249.6

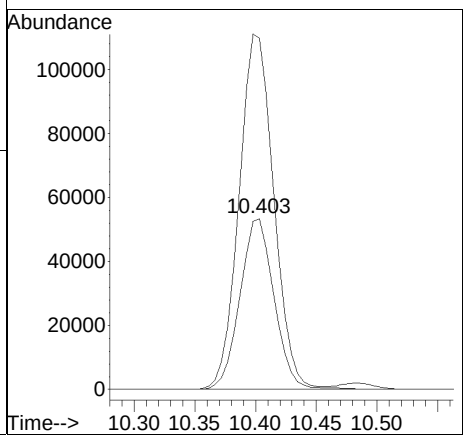


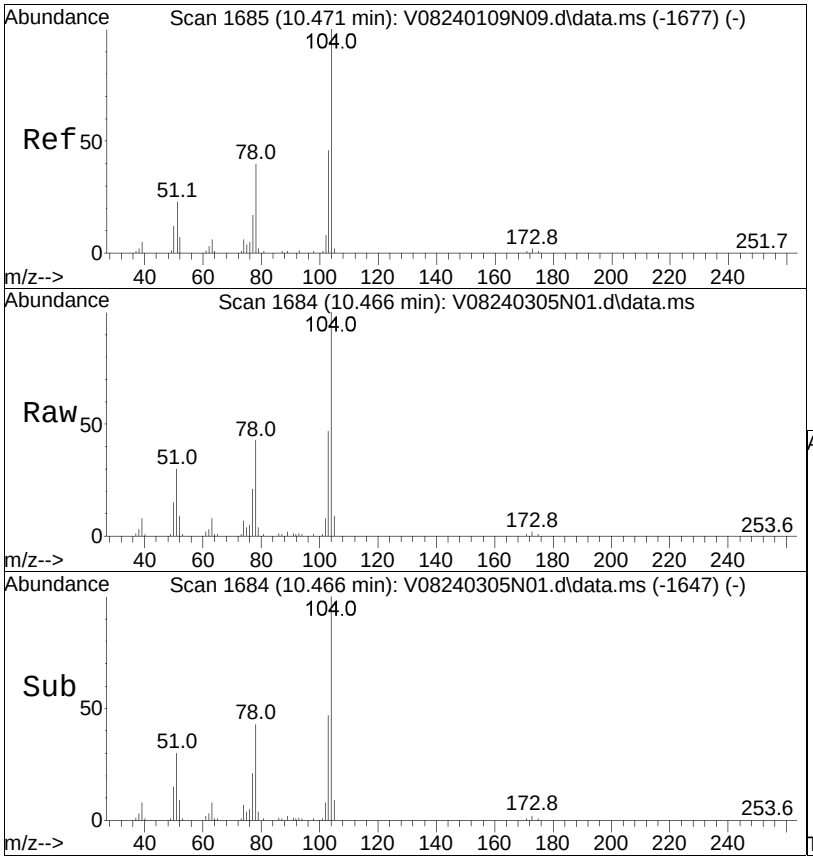


#77
o Xylene
Concen: 18.00 ug/L
RT: 10.403 min Scan# 1672
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:106 Resp: 104306

Ion	Ratio	Lower	Upper
106	100		
91	211.2	182.6	273.8

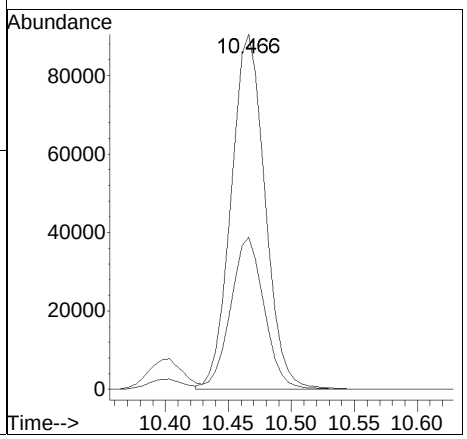


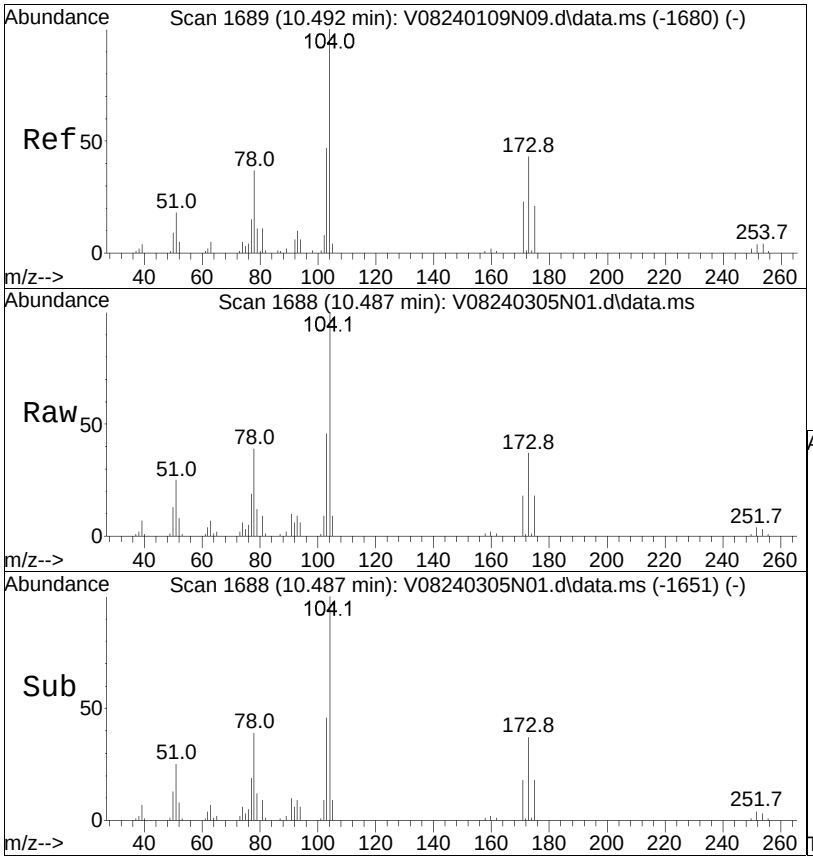


#78
Styrene
Concen: 17.69 ug/L
RT: 10.466 min Scan# 1684
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:104 Resp: 169630

Ion	Ratio	Lower	Upper
104	100		
78	42.2	39.8	59.6

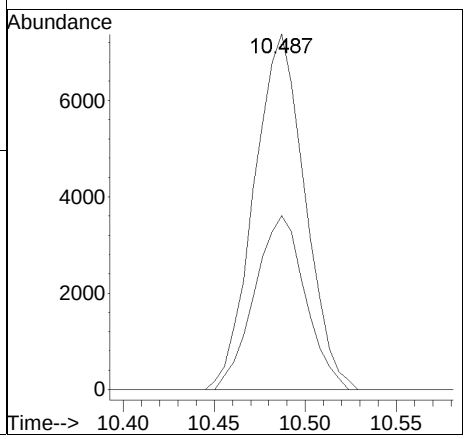


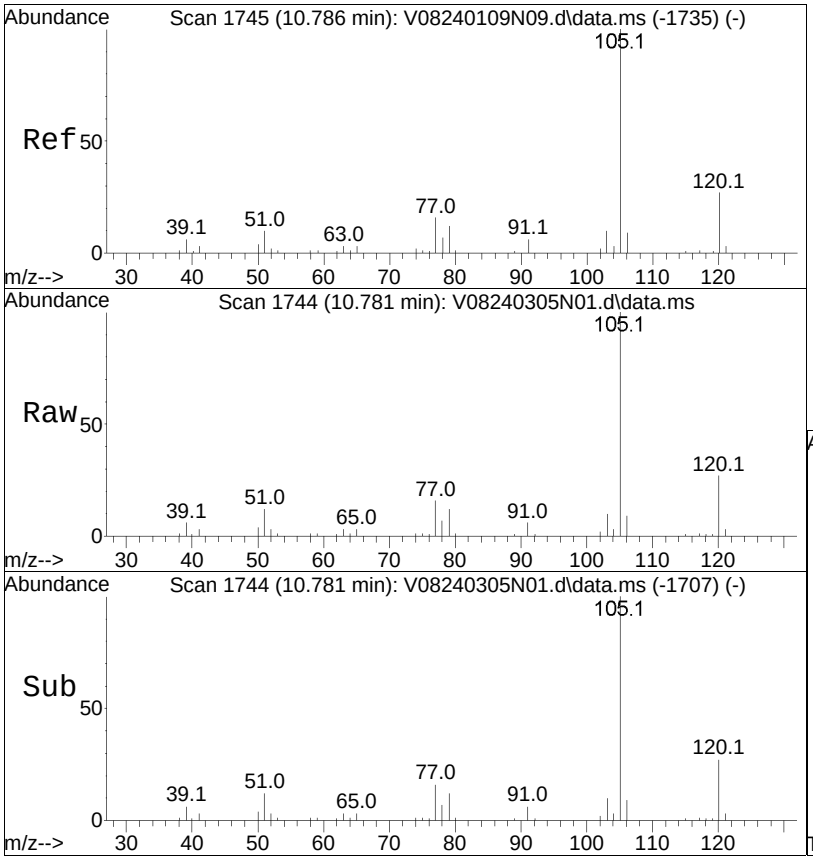


#80
Bromoform
Concen: 9.21 ug/L
RT: 10.487 min Scan# 1688
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:173 Resp: 14345

Ion	Ratio	Lower	Upper
173	100		
175	48.7	31.5	71.5

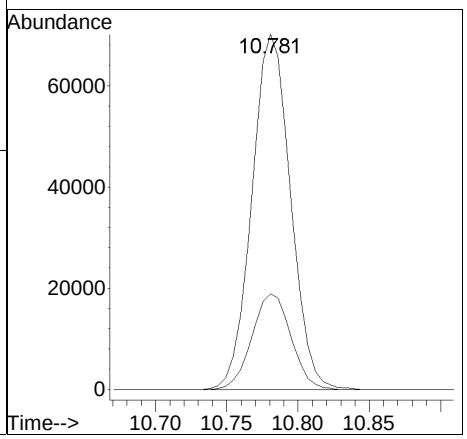


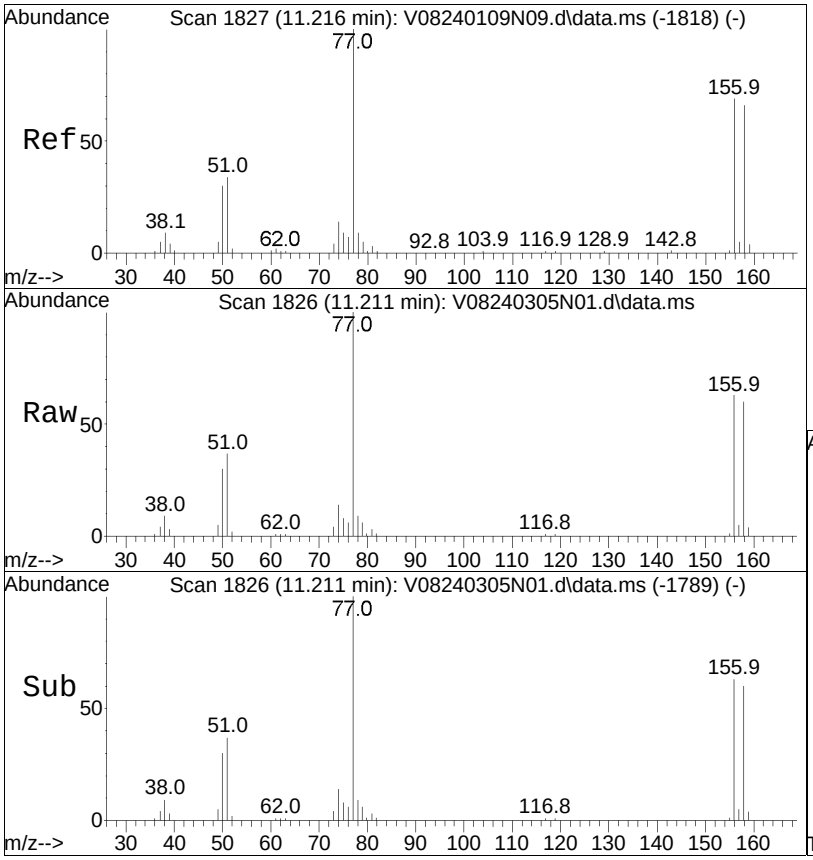


#82
Isopropylbenzene
Concen: 10.14 ug/L
RT: 10.781 min Scan# 1744
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:105 Resp: 132022

Ion	Ratio	Lower	Upper
105	100		
120	27.1	4.8	44.8

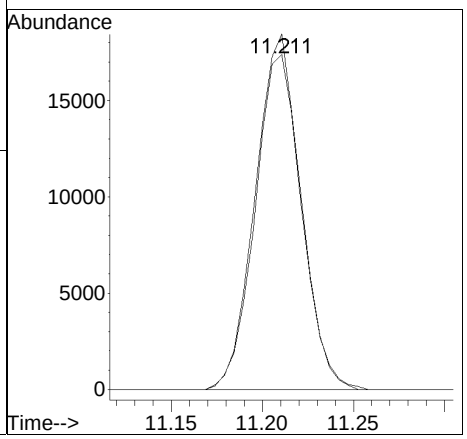


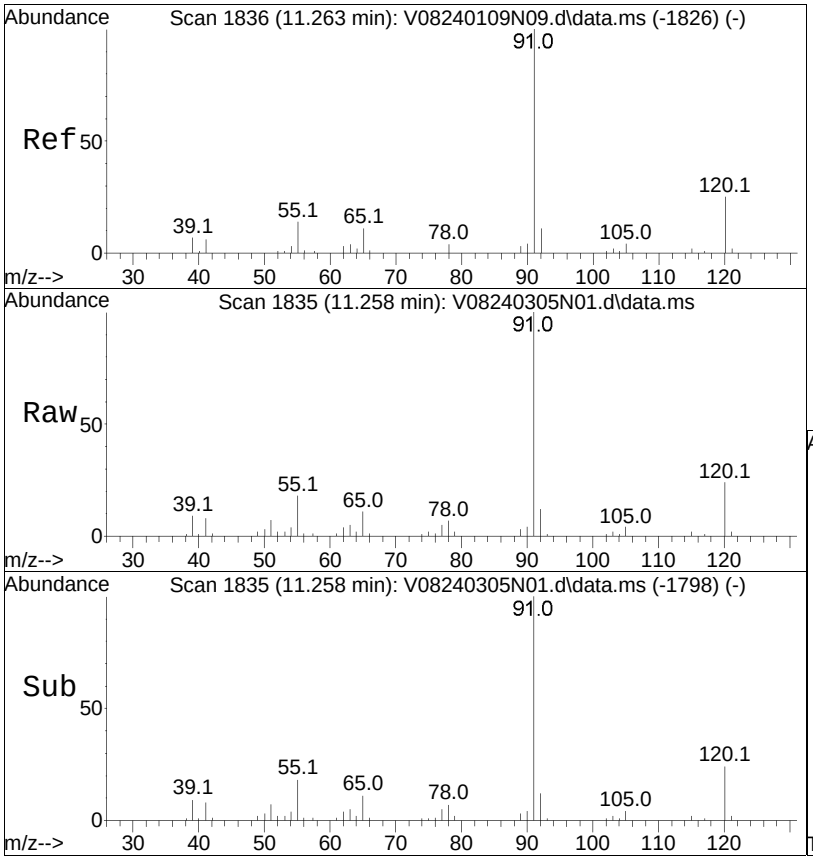


#84
Bromobenzene
Concen: 9.72 ug/L
RT: 11.211 min Scan# 1826
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:156 Resp: 32037

Ion	Ratio	Lower	Upper
156	100		
158	96.2	75.9	113.9

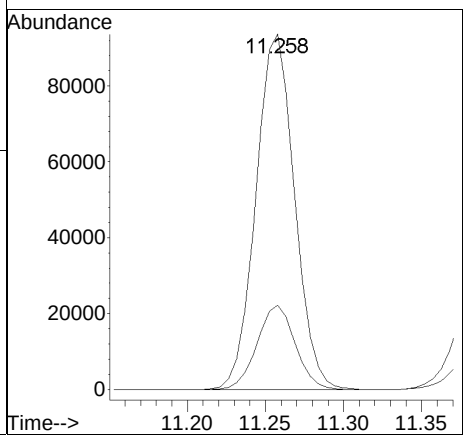


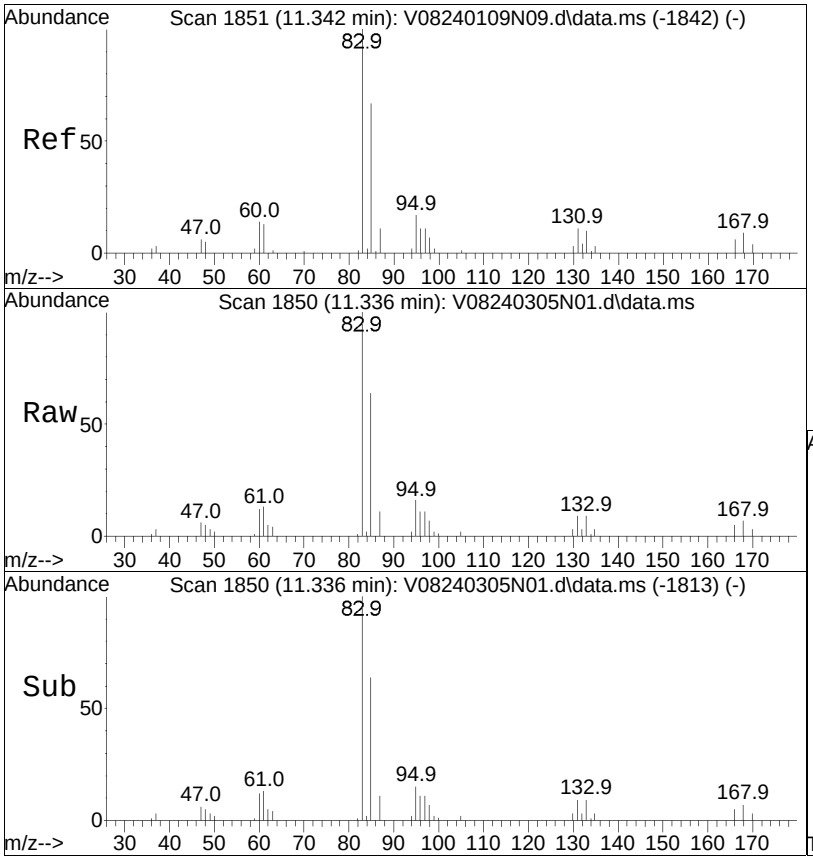


#85
n-Propylbenzene
Concen: 10.55 ug/L
RT: 11.258 min Scan# 1835
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 91 Resp: 161142

Ion	Ratio	Lower	Upper
91	100		
120	23.2	17.0	25.6

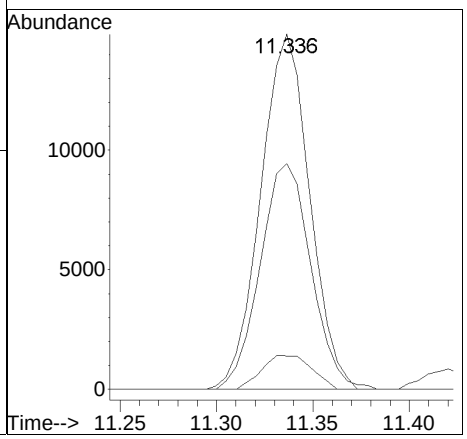


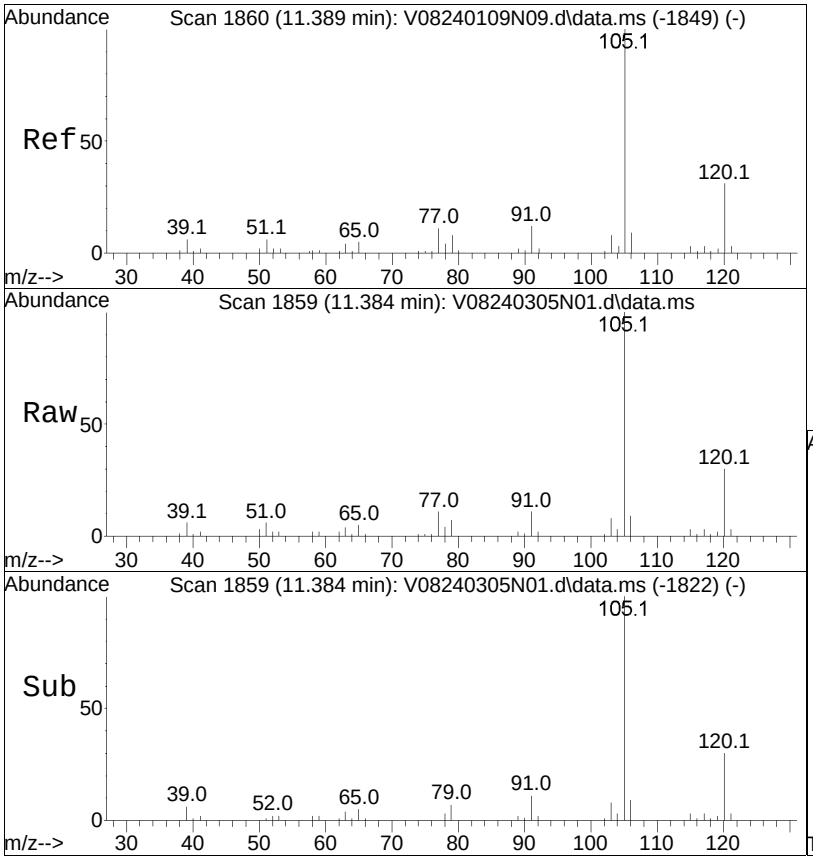


#87
1,1,2,2-Tetrachloroethane
Concen: 11.18 ug/L
RT: 11.336 min Scan# 1850
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 83 Resp: 26240

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.4
85	66.1	45.4	85.4

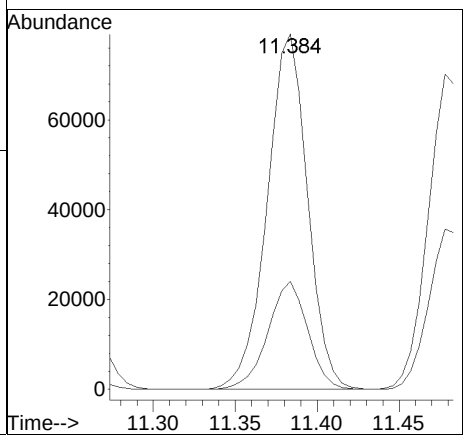


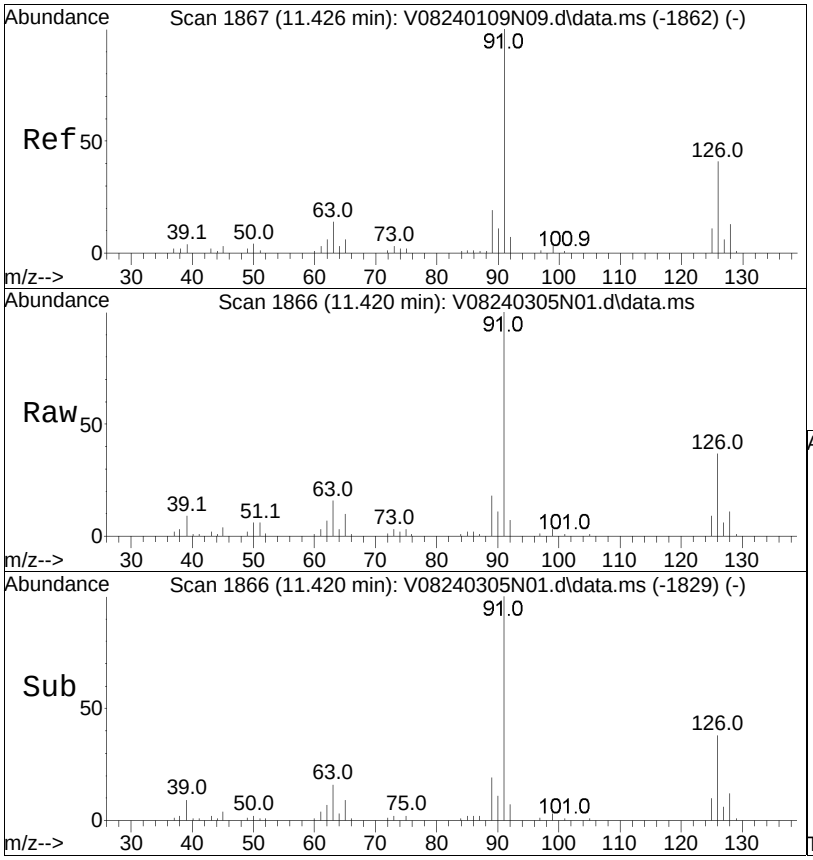


#88
4-Ethyltoluene
Concen: 10.36 ug/L
RT: 11.384 min Scan# 1859
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:105 Resp: 135700

Ion	Ratio	Lower	Upper
105	100		
120	29.9	18.1	37.7

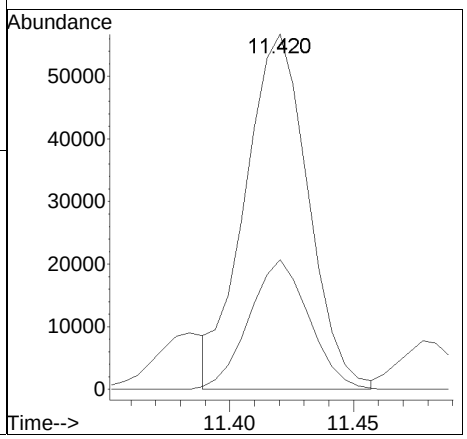


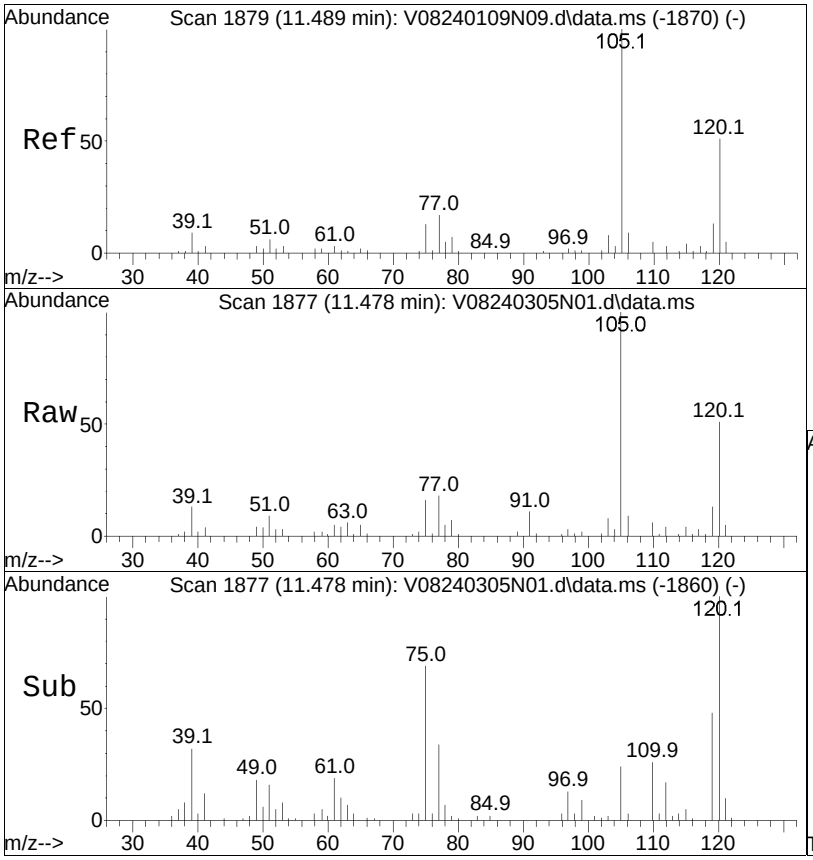


#89
2-Chlorotoluene
Concen: 10.90 ug/L M6
RT: 11.420 min Scan# 1866
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 91 Resp: 100830

Ion	Ratio	Lower	Upper
91	100		
126	34.5	21.5	32.3#

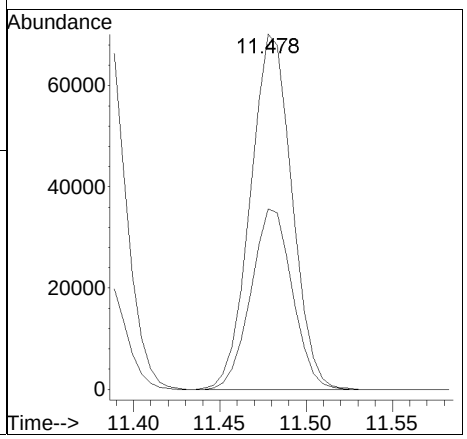


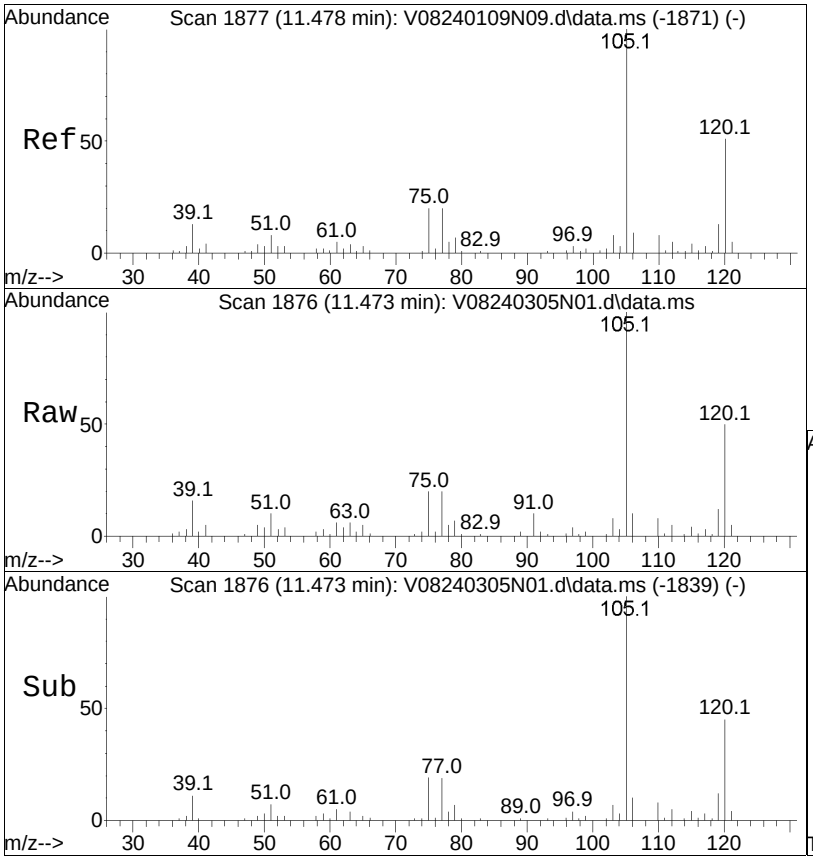


#90
1,3,5-Trimethylbenzene
Concen: 10.43 ug/L
RT: 11.478 min Scan# 1877
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:105 Resp: 117603

Ion	Ratio	Lower	Upper
105	100		
120	50.6	34.8	52.2

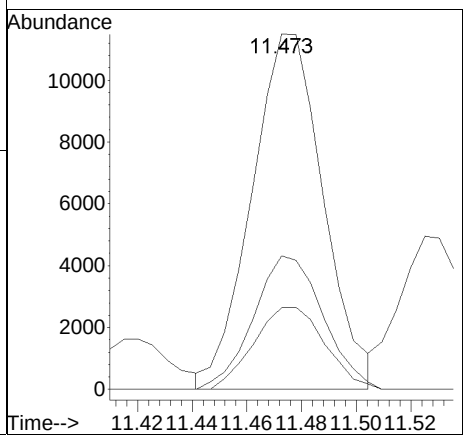


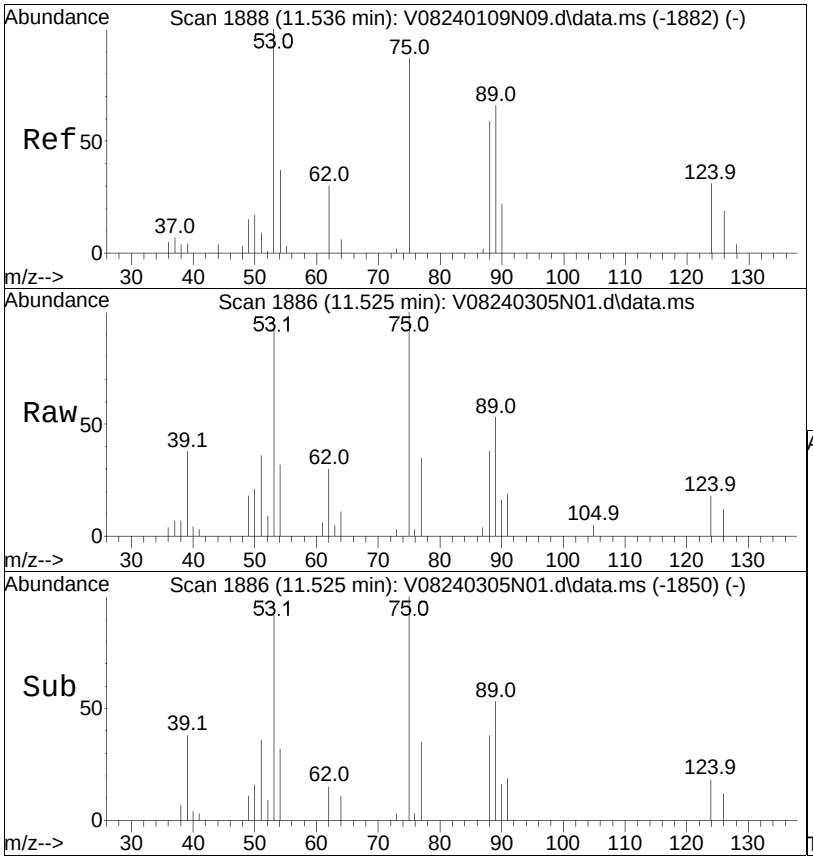


#91
1,2,3-Trichloropropane
Concen: 10.96 ug/L
RT: 11.473 min Scan# 1876
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 75 Resp: 20938

Ion	Ratio	Lower	Upper
75	100		
110	36.4	25.4	52.8
112	22.9	15.6	32.4

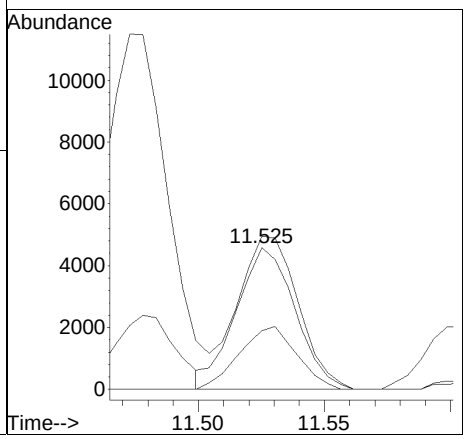


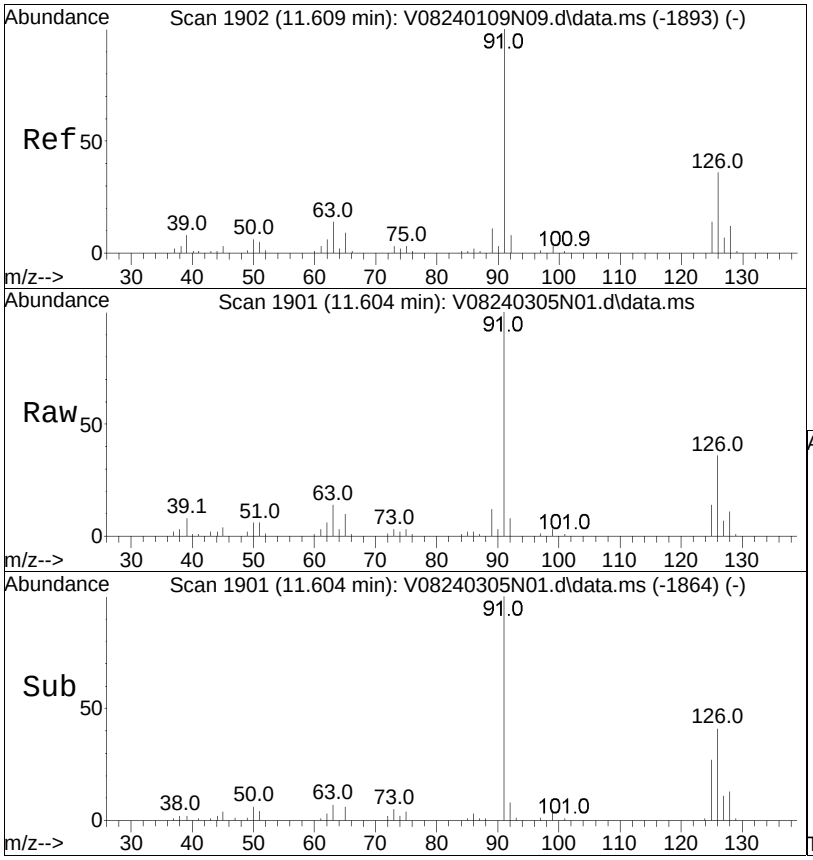


#92
trans-1,4-Dichloro-2-butene
Concen: 11.19 ug/L
RT: 11.525 min Scan# 1886
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 53 Resp: 7456

Ion	Ratio	Lower	Upper
53	100		
88	43.2	39.6	59.4
75	110.1	70.2	105.4#

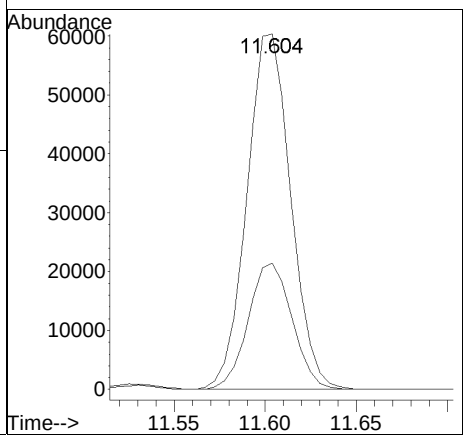


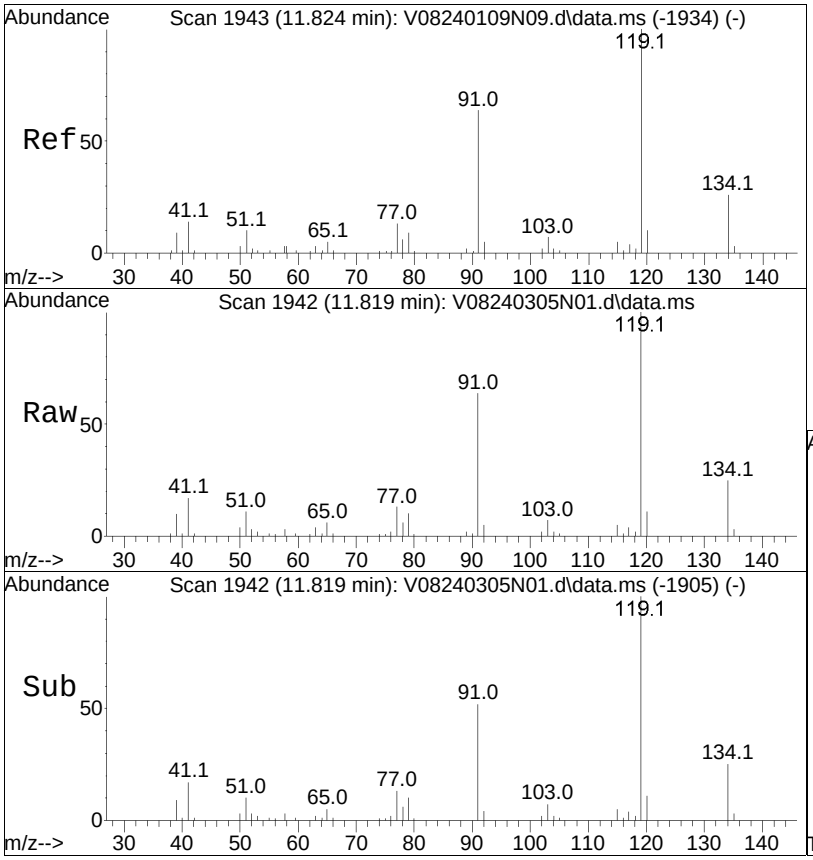


#93
4-Chlorotoluene
Concen: 10.55 ug/L
RT: 11.604 min Scan# 1901
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 91 Resp: 101141

Ion	Ratio	Lower	Upper
91	100		
126	35.5	24.6	36.8

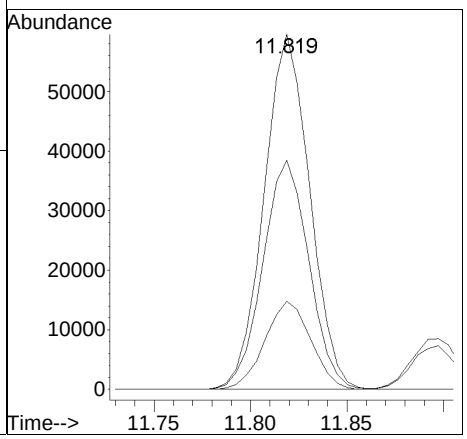


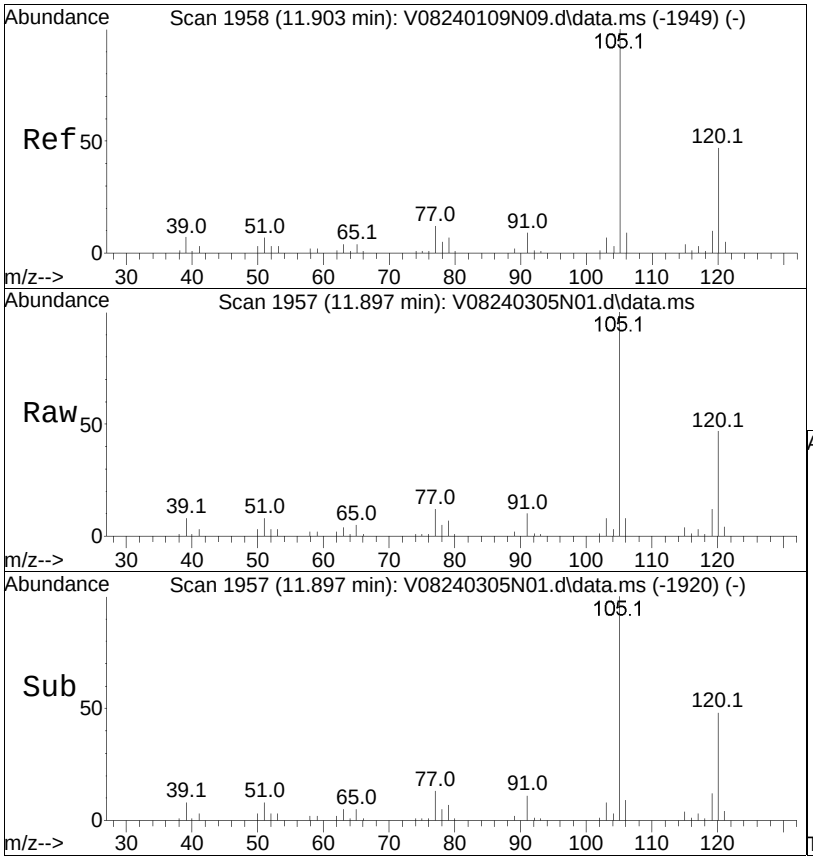


#94
tert-Butylbenzene
Concen: 10.07 ug/L
RT: 11.819 min Scan# 1942
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:119 Resp: 98160

Ion	Ratio	Lower	Upper
119	100		
91	65.1	51.4	77.2
134	25.0	18.3	27.5

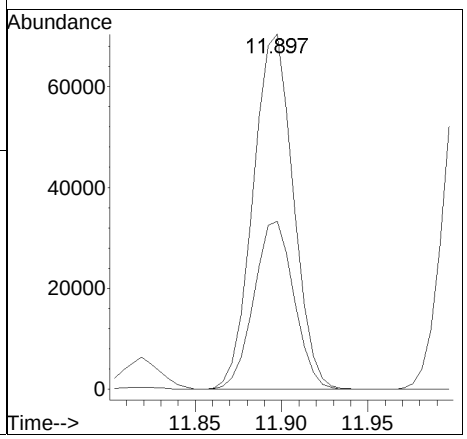


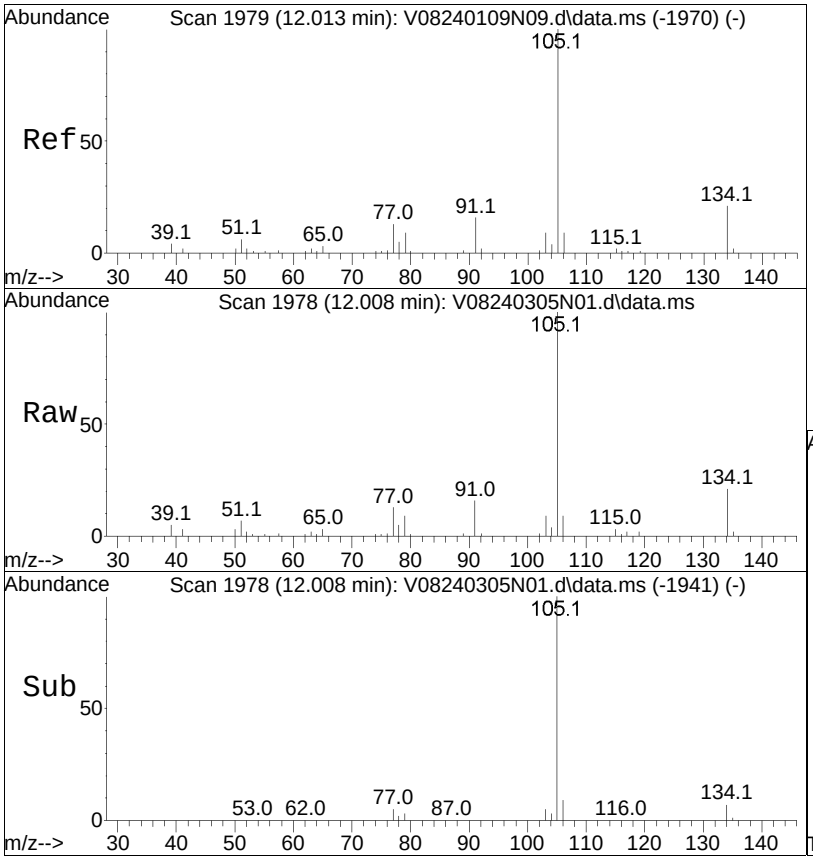


#97
1,2,4-Trimethylbenzene
Concen: 10.28 ug/L
RT: 11.897 min Scan# 1957
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:105 Resp: 114194

Ion	Ratio	Lower	Upper
105	100		
120	47.2	33.4	50.0

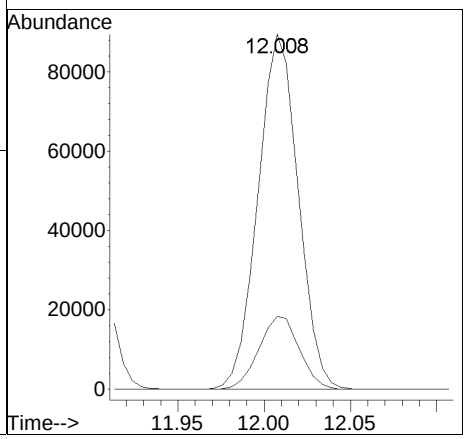


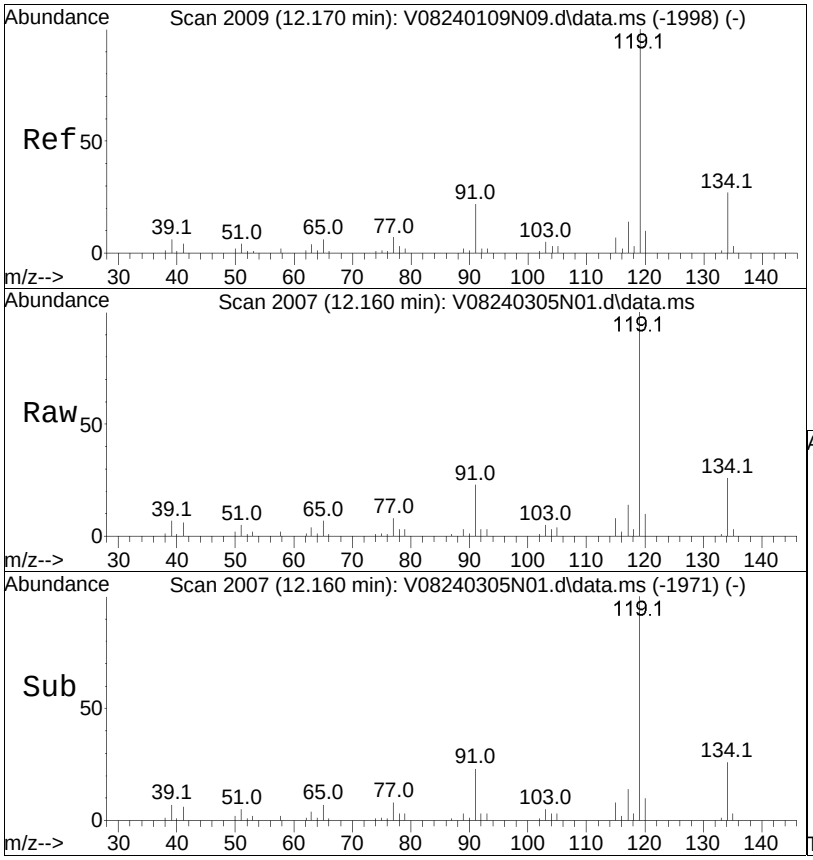


#98
sec-Butylbenzene
Concen: 10.25 ug/L
RT: 12.008 min Scan# 1978
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:105 Resp: 145300

Ion	Ratio	Lower	Upper
105	100		
134	20.7	12.5	26.1

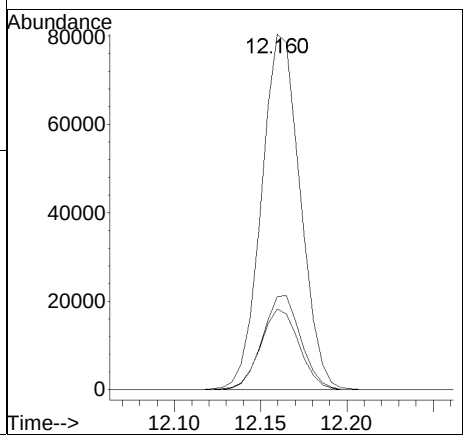


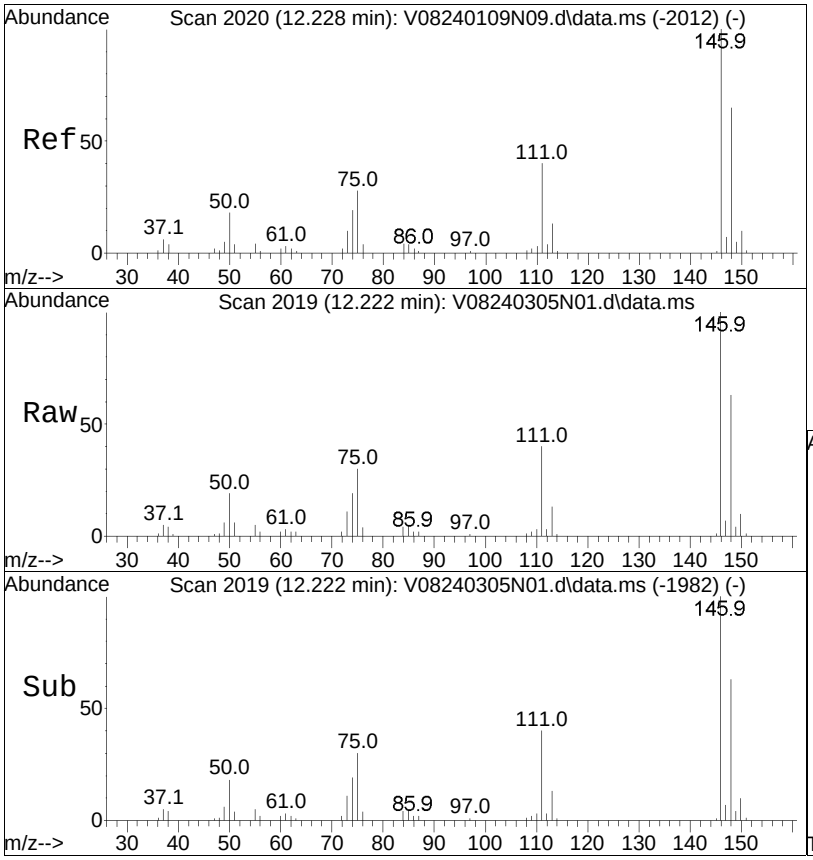


#99
p-Isopropyltoluene
Concen: 10.00 ug/L
RT: 12.160 min Scan# 2007
Delta R.T. -0.011 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:119 Resp: 125681

Ion	Ratio	Lower	Upper
119	100		
134	26.0	16.1	33.3
91	22.5	17.3	35.9

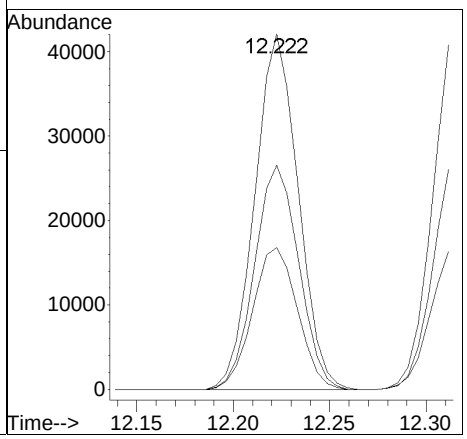


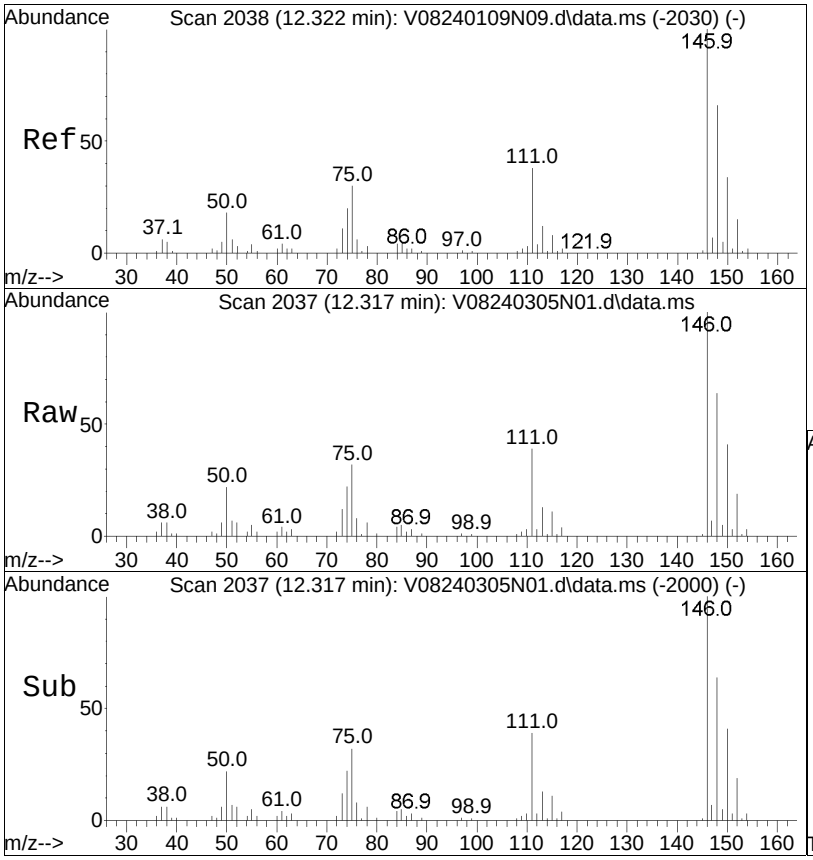


#100
1,3-Dichlorobenzene
Concen: 10.00 ug/L
RT: 12.222 min Scan# 2019
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:146 Resp: 65767

Ion	Ratio	Lower	Upper
146	100		
111	41.4	27.5	57.1
148	64.2	41.9	86.9

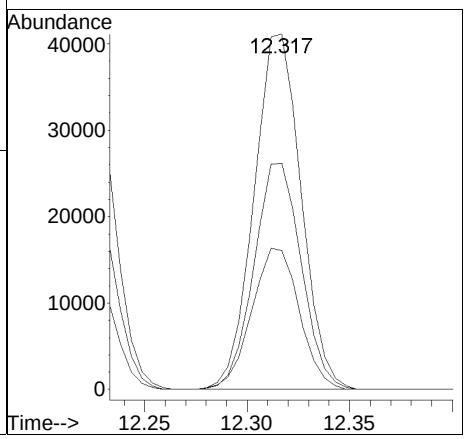


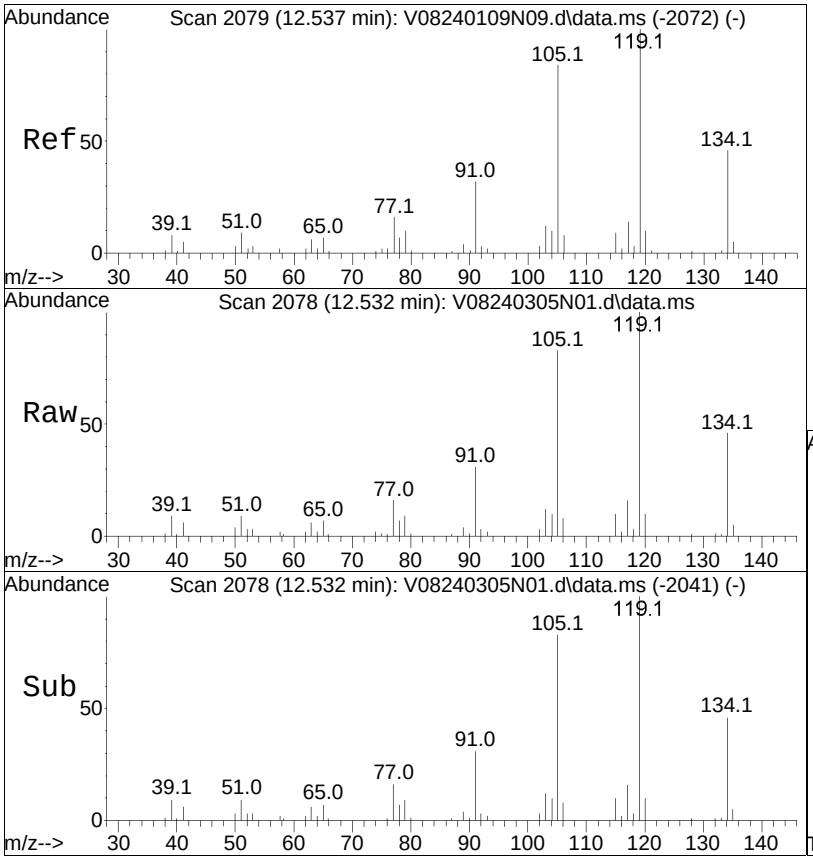


#101
1,4-Dichlorobenzene
Concen: 9.93 ug/L
RT: 12.317 min Scan# 2037
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:146 Resp: 65917

Ion	Ratio	Lower	Upper
146	100		
111	40.2	32.3	48.5
148	63.9	49.9	74.9

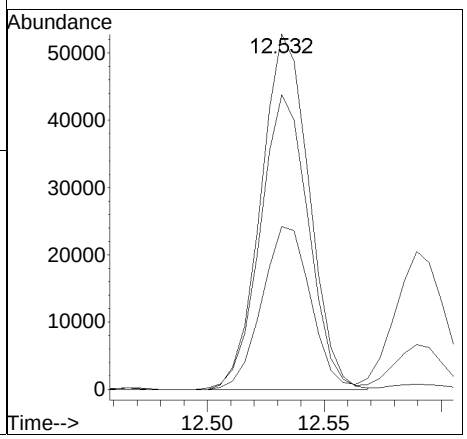


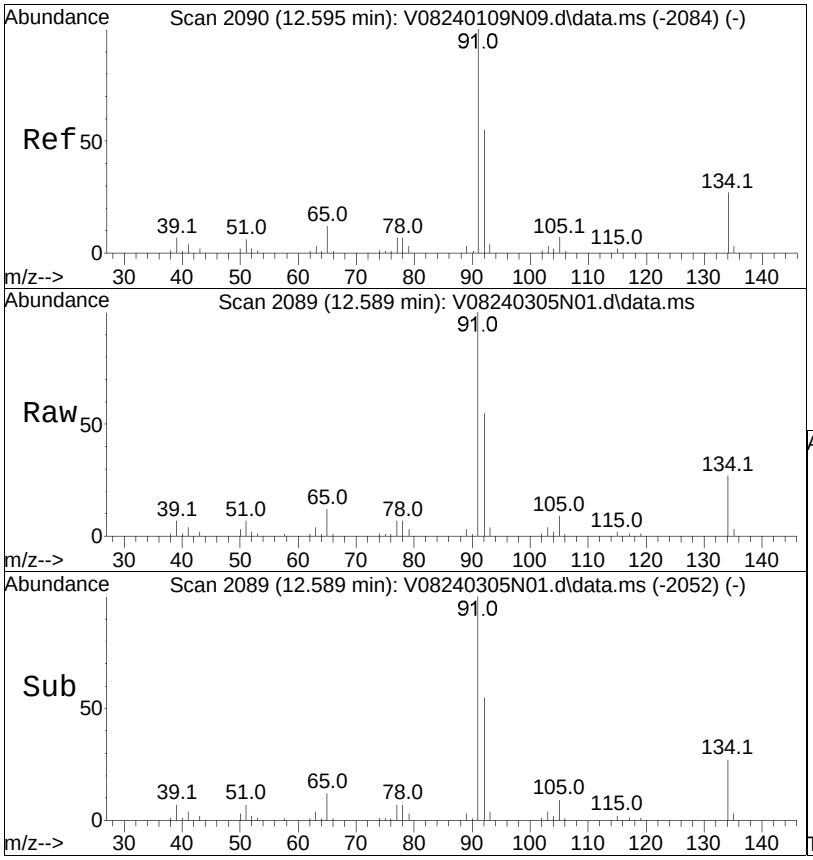


#102
p-Diethylbenzene
Concen: 9.86 ug/L
RT: 12.532 min Scan# 2078
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:119 Resp: 75593

Ion	Ratio	Lower	Upper
119	100		
105	82.9	59.5	123.7
134	46.4	30.2	62.6

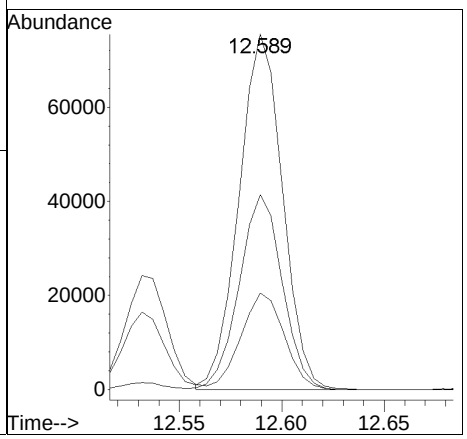


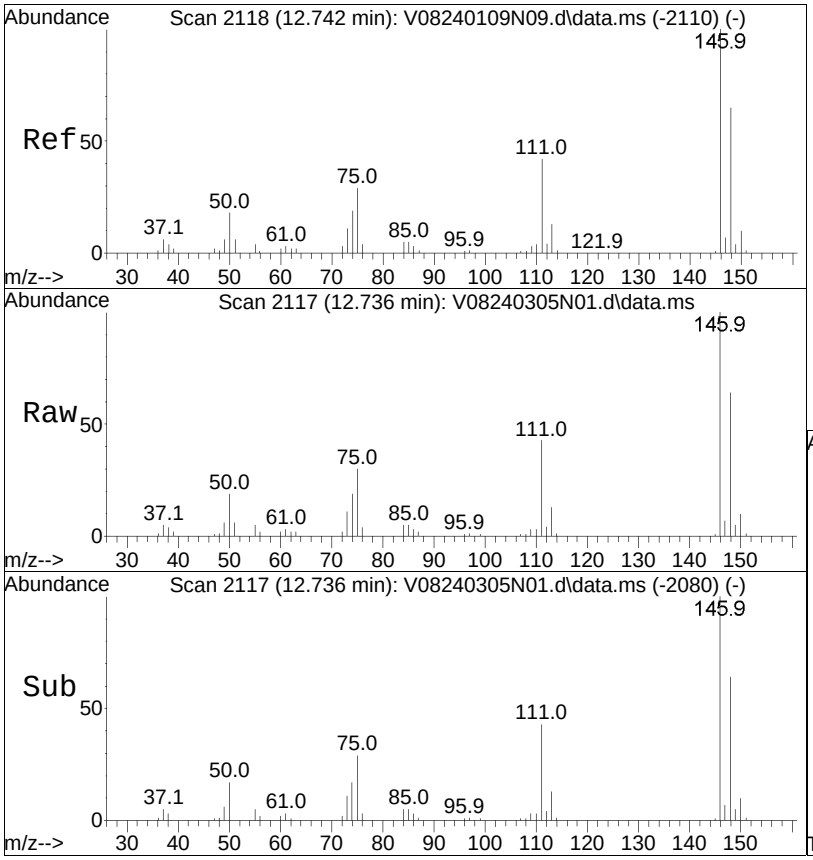


#103
n-Butylbenzene
Concen: 10.63 ug/L
RT: 12.589 min Scan# 2089
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion: 91 Resp: 111505

Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.0	64.4
134	26.9	19.6	29.4

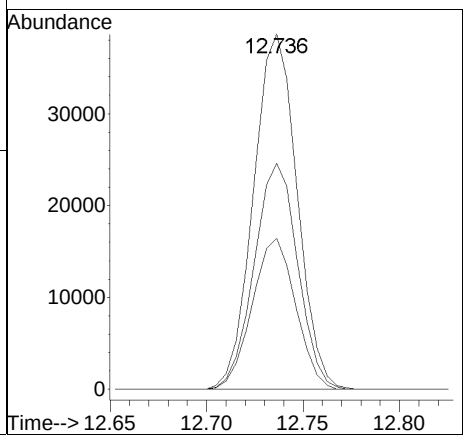


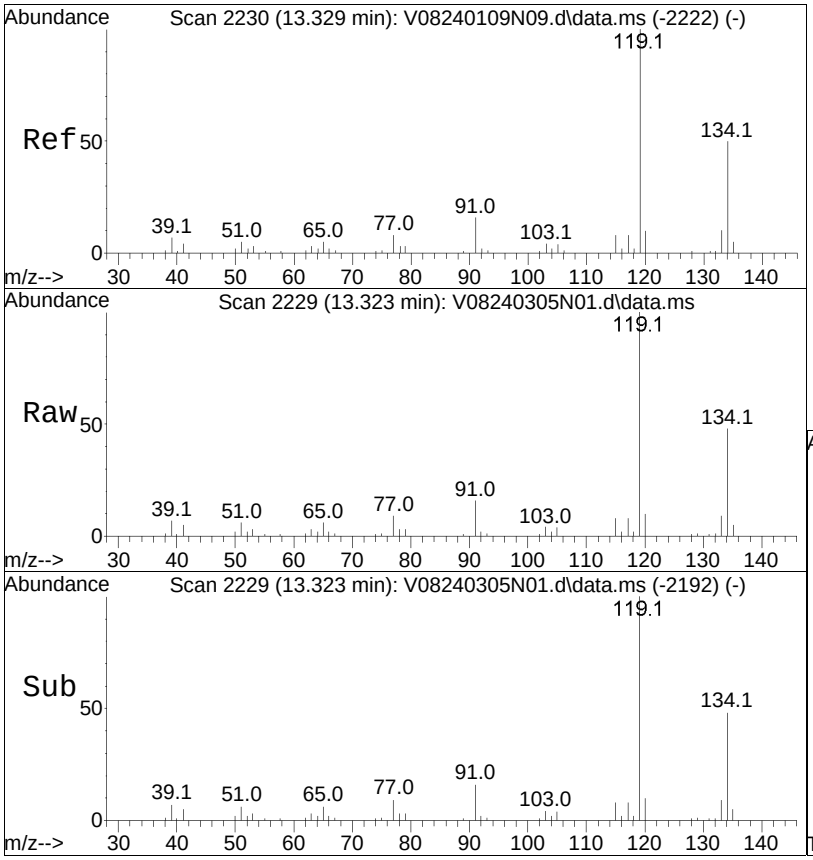


#104
1,2-Dichlorobenzene
Concen: 9.96 ug/L
RT: 12.736 min Scan# 2117
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:146 Resp: 60865

Ion	Ratio	Lower	Upper
146	100		
111	42.4	28.3	58.7
148	63.6	42.3	87.8

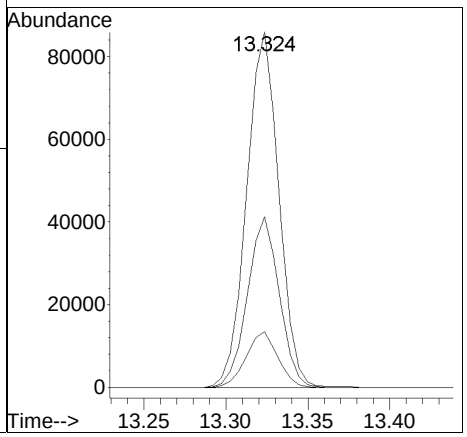


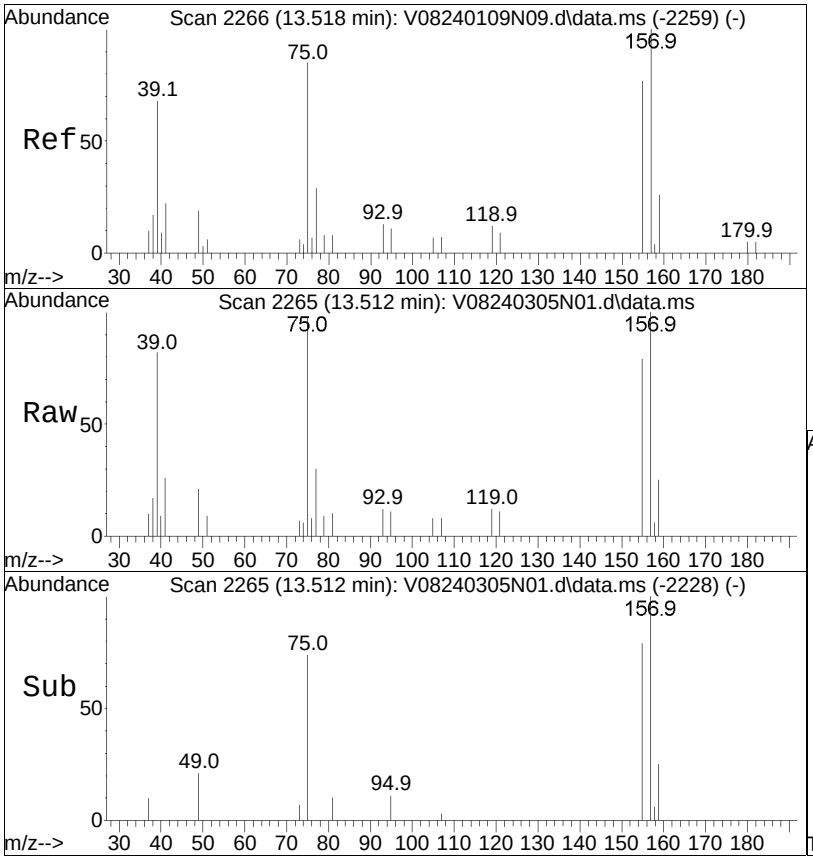


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.46 ug/L
RT: 13.323 min Scan# 2229
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:119 Resp: 117399

Ion	Ratio	Lower	Upper
119	100		
134	47.4	30.5	63.3
91	15.4	12.4	25.7

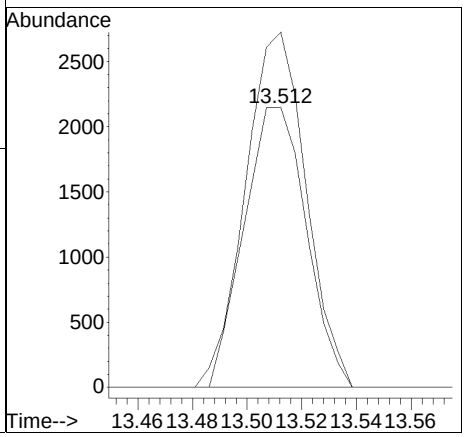


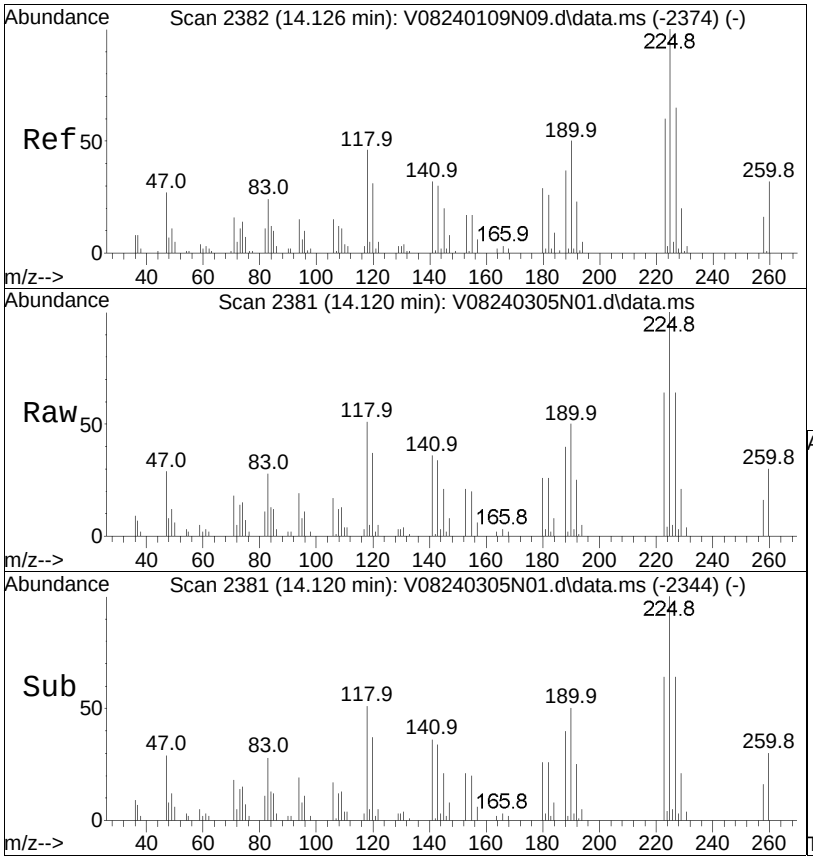


#106
1,2-Dibromo-3-chloropropane
Concen: 9.45 ug/L
RT: 13.512 min Scan# 2265
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:155 Resp: 3410

Ion	Ratio	Lower	Upper
155	100		
157	123.8	94.8	142.2

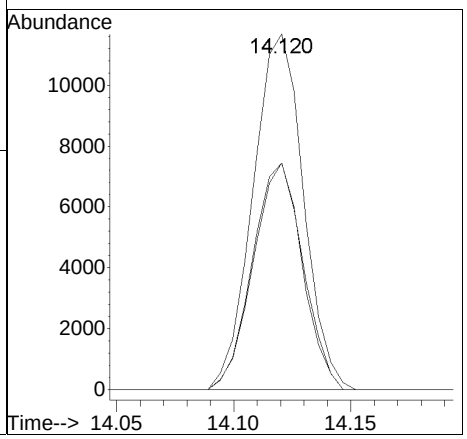


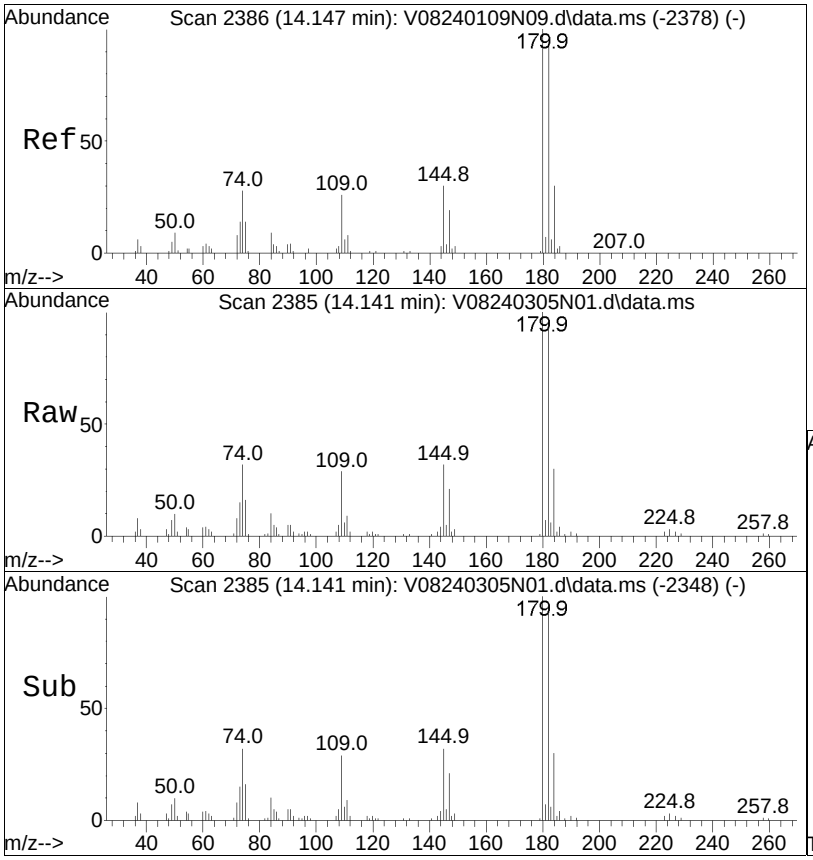


#108
Hexachlorobutadiene
Concen: 8.95 ug/L
RT: 14.120 min Scan# 2381
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:225 Resp: 17513

Ion	Ratio	Lower	Upper
225	100		
223	62.8	54.3	81.5
227	62.7	52.4	78.6

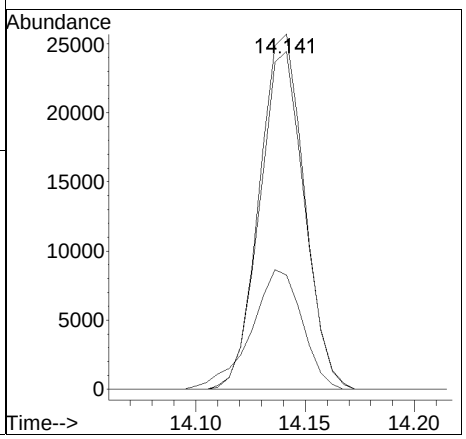


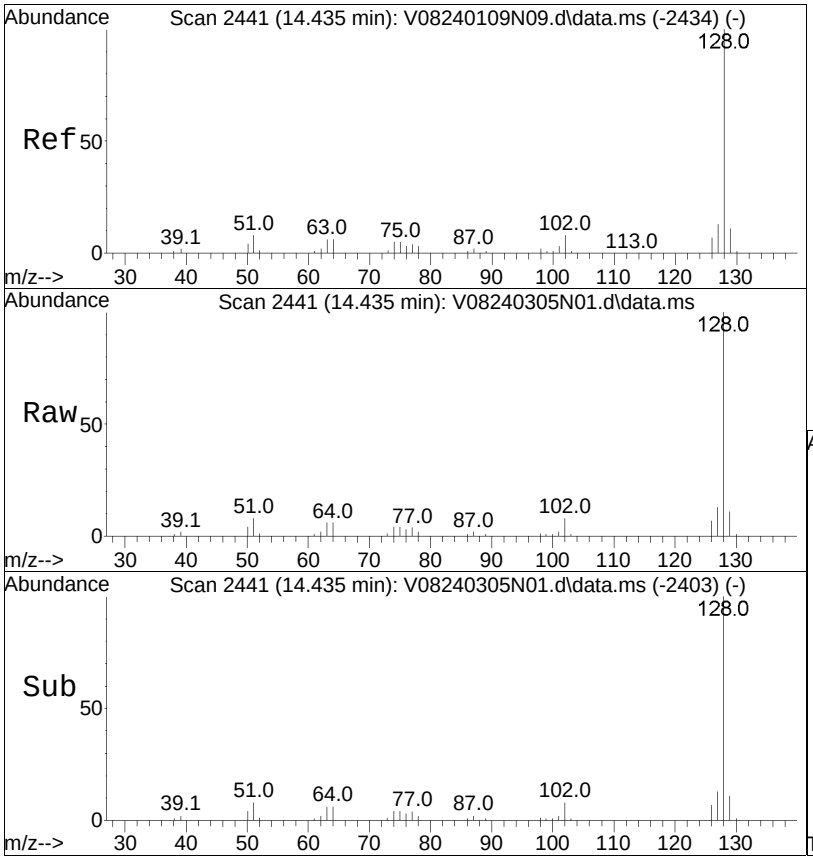


#109
1,2,4-Trichlorobenzene
Concen: 8.73 ug/L
RT: 14.141 min Scan# 2385
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:180 Resp: 36885

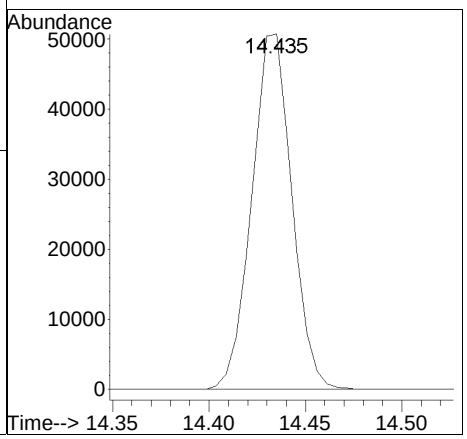
Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.3	115.9
145	38.1	28.1	42.1

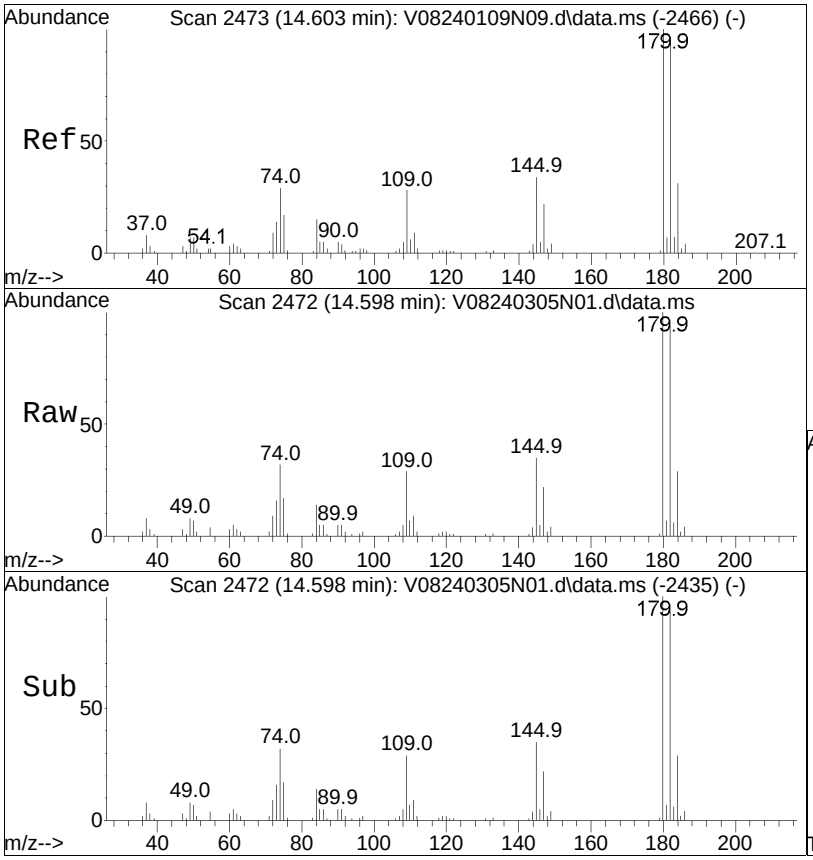




#110
Naphthalene
Concen: 8.86 ug/L
RT: 14.435 min Scan# 2441
Delta R.T. -0.000 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:128 Resp: 73267

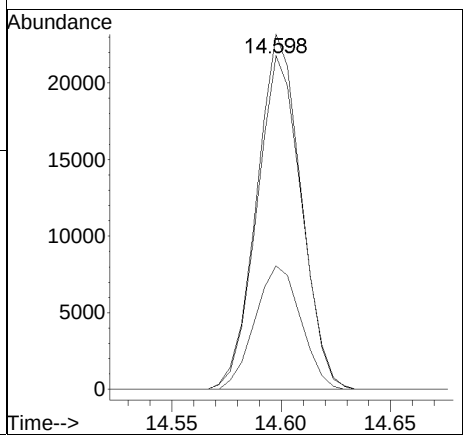




#111
1,2,3-Trichlorobenzene
Concen: 8.71 ug/L
RT: 14.598 min Scan# 2472
Delta R.T. -0.005 min
Lab File: V08240305N01.d
Acq: 5 Mar 2024 5:29 pm

Tgt Ion:180 Resp: 32681

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.4	114.6
145	36.0	26.4	39.6

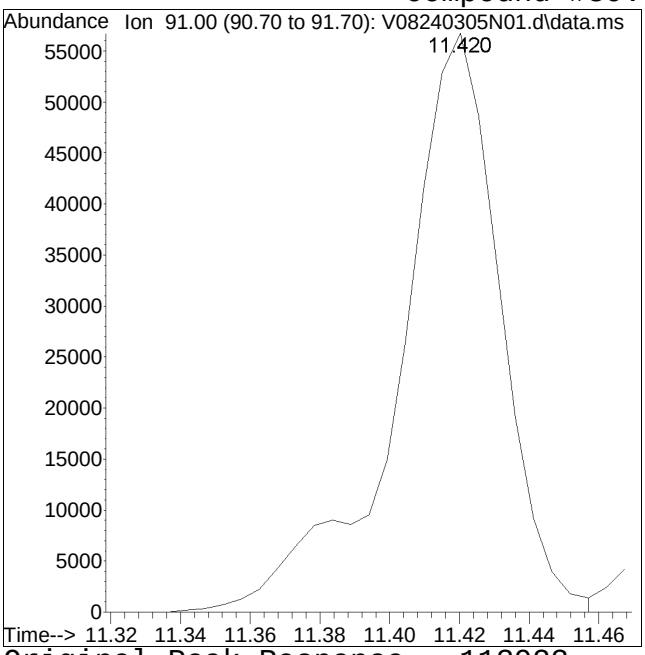


Manual Integration Report

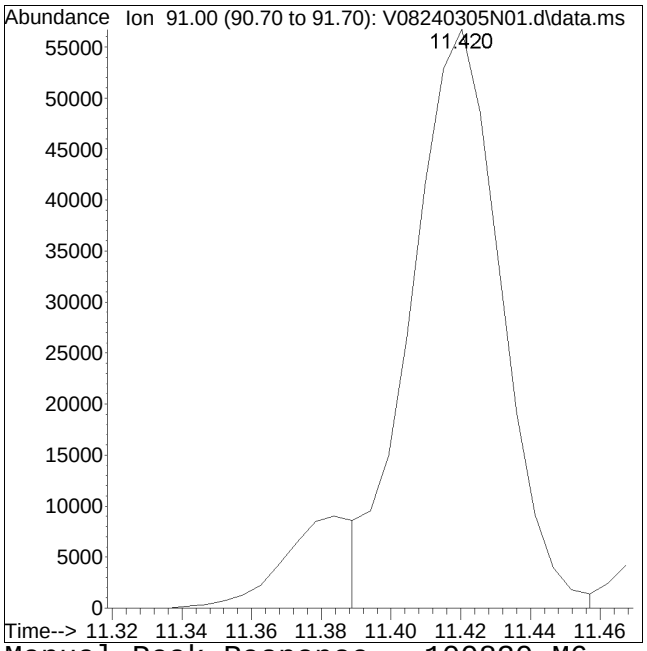
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N01.d
Date Inj'd : 3/5/2024 5:29 pm
Sample : WG1893240-3,31,10,10

QMethod : V108_240109N_8260.m
Operator : VOA108:TMS
Instrument : VOA 108
Quant Date : 3/5/2024 6:15 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 113923



Manual Peak Response = 100830 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N02.d
Acq On : 5 Mar 2024 5:51 pm
Operator : VOA108:TMS
Sample : WG1893240-4,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 18:19:15 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	159462	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 103.41%			
59) Chlorobenzene-d5	9.617	117	117526	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 106.55%			
79) 1,4-Dichlorobenzene-d4	12.301	152	54378	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 107.93%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.275	113	42738	10.198	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.98%			
43) 1,2-Dichloroethane-d4	5.800	65	47332	10.609	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.09%			
60) Toluene-d8	7.776	98	154888	10.521	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.21%			
83) 4-Bromofluorobenzene	11.095	95	52727	10.761	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.61%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	28981	9.498	ug/L	99
3) Chloromethane	1.888	50	46196	11.514	ug/L	99
4) Vinyl chloride	1.962	62	39137	9.124	ug/L	98
5) Bromomethane	2.276	94	15729	5.571	ug/L	97
6) Chloroethane	2.402	64	21569	7.947	ug/L	97
7) Trichlorofluoromethane	2.539	101	38295	7.386	ug/L	96
8) Ethyl ether	2.837	74	12115	7.532	ug/L	90
10) 1,1-Dichloroethene	3.026	96	25792	8.913	ug/L	75
11) Carbon disulfide	3.058	76	89477	8.977	ug/L	96
15) Methylene chloride	3.587	84	30450	8.880	ug/L	89
17) Acetone	3.619	43	6713	11.992	ug/L	95
18) trans-1,2-Dichloroethene	3.739	96	29909	8.946	ug/L	85
20) Methyl tert-butyl ether	3.839	73	66868	8.778	ug/L	96
23) 1,1-Dichloroethane	4.321	63	63793	9.772	ug/L	99
25) Acrylonitrile	4.363	53	7676	11.649	ug/L #	87
27) Vinyl acetate	4.552	43	60911	9.450	ug/L	99
28) cis-1,2-Dichloroethene	4.835	96	33820	8.784	ug/L #	79
29) 2,2-Dichloropropane	4.940	77	48975	9.252	ug/L	96
30) Bromochloromethane	5.029	128	15733	8.763	ug/L #	72
32) Chloroform	5.097	83	56155	9.046	ug/L	98

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N02.d
Acq On : 5 Mar 2024 5:51 pm
Operator : VOA108:TMS
Sample : WG1893240-4,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 18:19:15 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.239	117	42985	8.871	ug/L		98
37) 1,1,1-Trichloroethane	5.302	97	47640	8.756	ug/L	#	94
39) 2-Butanone	5.386	43	10254	11.775	ug/L		95
40) 1,1-Dichloropropene	5.422	75	40808	8.891	ug/L		97
41) Benzene	5.669	78	122292	9.145	ug/L		95
44) 1,2-Dichloroethane	5.868	62	41473	9.345	ug/L		97
48) Trichloroethene	6.261	95	33347	9.529	ug/L		94
50) Dibromomethane	6.702	93	16838	8.660	ug/L		96
51) 1,2-Dichloropropane	6.806	63	35465	9.805	ug/L		94
54) Bromodichloromethane	6.875	83	41762	8.786	ug/L		99
57) 1,4-Dioxane	7.084	88	9278	742.597	ug/L	#	87
58) cis-1,3-Dichloropropene	7.561	75	47404	8.572	ug/L		96
61) Toluene	7.834	92	73943	9.129	ug/L		97
62) 4-Methyl-2-pentanone	8.264	58	6979	8.805	ug/L	#	81
63) Tetrachloroethene	8.280	166	28667	8.278	ug/L		94
65) trans-1,3-Dichloropropene	8.311	75	40160	8.977	ug/L		99
68) 1,1,2-Trichloroethane	8.495	83	19797	9.704	ug/L		94
69) Chlorodibromomethane	8.704	129	28395	8.743	ug/L		96
70) 1,3-Dichloropropane	8.820	76	40505	9.542	ug/L		99
71) 1,2-Dibromoethane	8.982	107	21709	8.792	ug/L		96
72) 2-Hexanone	9.271	43	12203	9.068	ug/L	#	94
73) Chlorobenzene	9.638	112	84414	8.897	ug/L		96
74) Ethylbenzene	9.680	91	139927	8.905	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.722	131	30874	8.867	ug/L		95
76) p/m Xylene	9.863	106	110585	17.730	ug/L		95
77) o Xylene	10.398	106	107301	17.380	ug/L		90
78) Styrene	10.466	104	173753	17.004	ug/L		90
80) Bromoform	10.487	173	14745	8.775	ug/L		96
82) Isopropylbenzene	10.781	105	135314	9.628	ug/L		96
84) Bromobenzene	11.211	156	32797	9.224	ug/L		97
85) n-Propylbenzene	11.258	91	166000	10.071	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.336	83	27248	10.761	ug/L		99
88) 4-Ethyltoluene	11.384	105	138796	9.821	ug/L		96
89) 2-Chlorotoluene	11.420	91	102982M6	10.312	ug/L		
90) 1,3,5-Trimethylbenzene	11.478	105	120390	9.888	ug/L		89
91) 1,2,3-Trichloropropane	11.473	75	21268	10.311	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.525	53	7833	10.895	ug/L	#	83
93) 4-Chlorotoluene	11.604	91	103975	10.047	ug/L		92
94) tert-Butylbenzene	11.819	119	101989	9.693	ug/L		98

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N02.d
Acq On : 5 Mar 2024 5:51 pm
Operator : VOA108:TMS
Sample : WG1893240-4,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 18:19:15 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	11.892	105	117536	9.808	ug/L	92
98) sec-Butylbenzene	12.008	105	149412	9.762	ug/L	97
99) p-Isopropyltoluene	12.160	119	130021	9.584	ug/L	94
100) 1,3-Dichlorobenzene	12.223	146	67908	9.565	ug/L	99
101) 1,4-Dichlorobenzene	12.317	146	67830	9.464	ug/L	99
102) p-Diethylbenzene	12.532	119	78001	9.424	ug/L	93
103) n-Butylbenzene	12.590	91	115651	10.219	ug/L	98
104) 1,2-Dichlorobenzene	12.736	146	62575	9.490	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.324	119	120642	9.011	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.512	155	3481	8.942	ug/L	91
108) Hexachlorobutadiene	14.120	225	18208	8.624	ug/L	95
109) 1,2,4-Trichlorobenzene	14.136	180	38282	8.397	ug/L	97
110) Naphthalene	14.430	128	78318	8.779	ug/L	100
111) 1,2,3-Trichlorobenzene	14.598	180	34201	8.448	ug/L	97

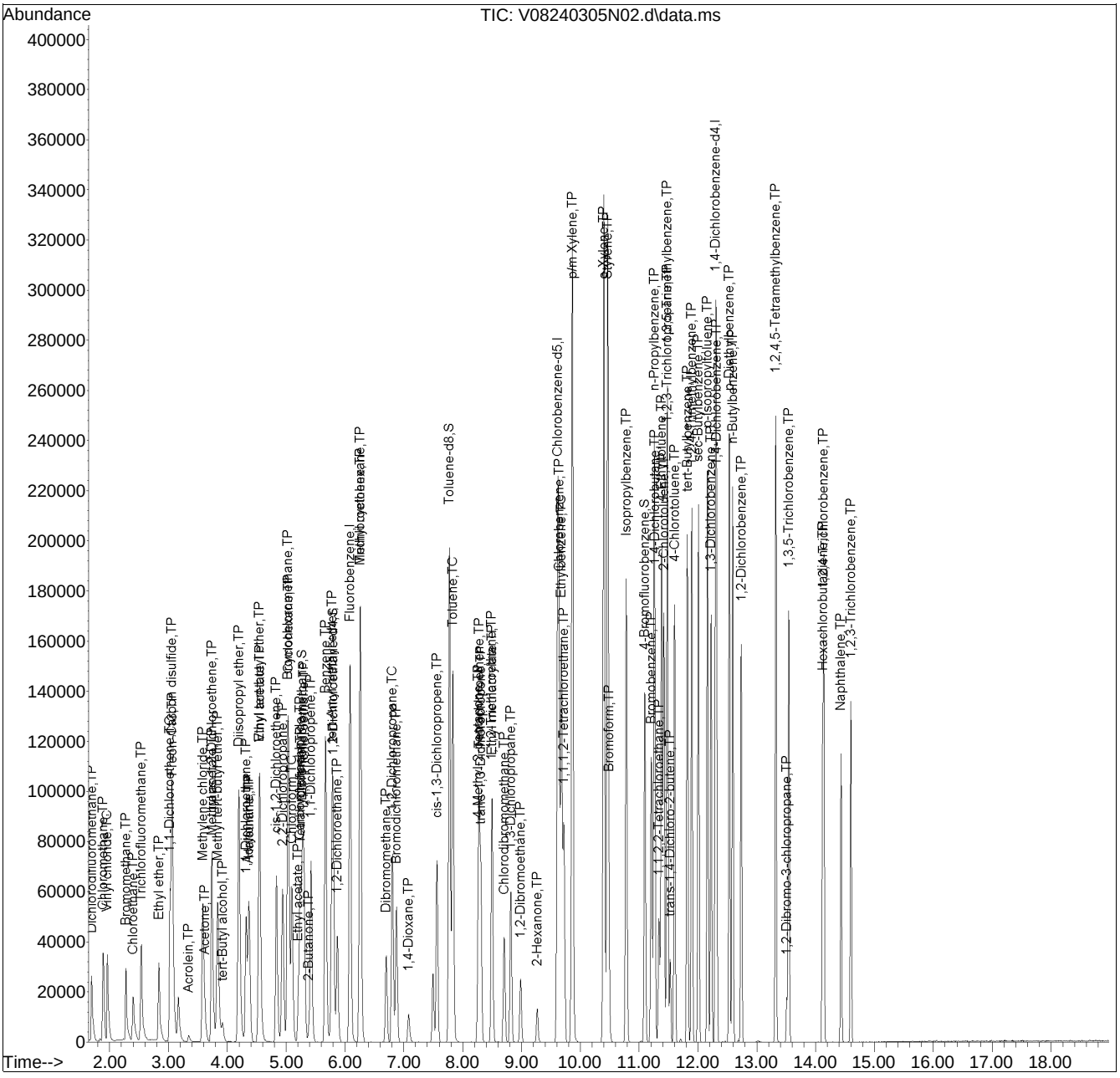
(#) = qualifier out of range (m) = manual integration (+) = signals summed

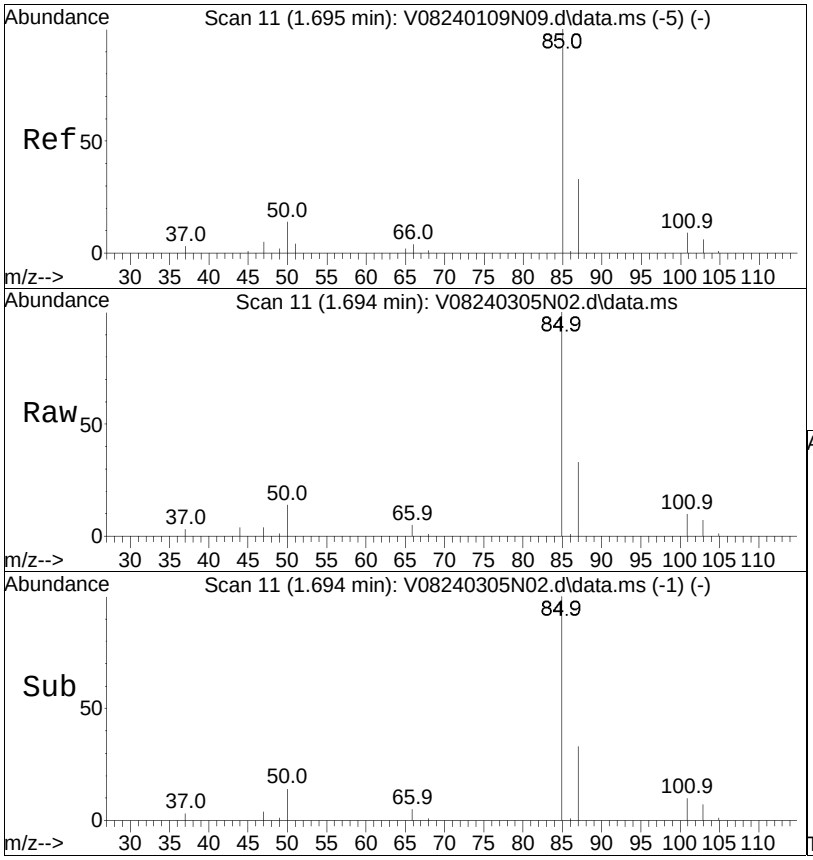
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N02.d
Acq On : 5 Mar 2024 5:51 pm
Operator : VOA108:TMS
Sample : WG1893240-4,31,10,10
Misc : WG1893240,ICAL20750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 18:19:15 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOd•

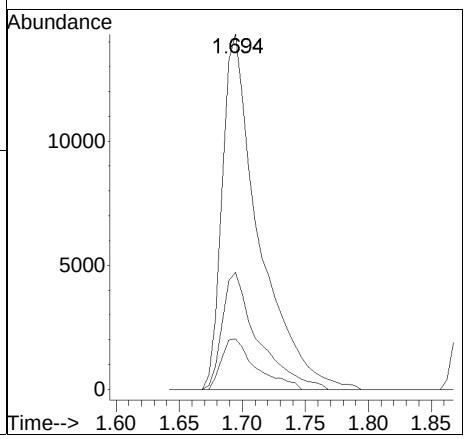


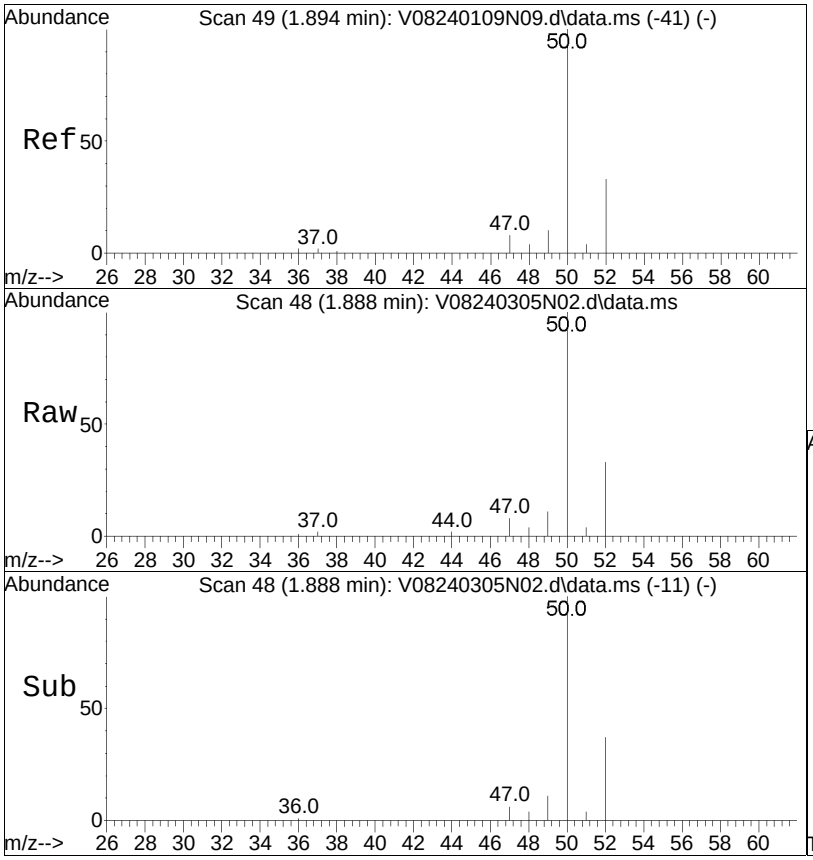


#2
Dichlorodifluoromethane
Concen: 9.50 ug/L
RT: 1.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 85 Resp: 28981

Ion	Ratio	Lower	Upper
85	100		
87	32.0	21.0	43.6
50	13.4	8.9	18.5

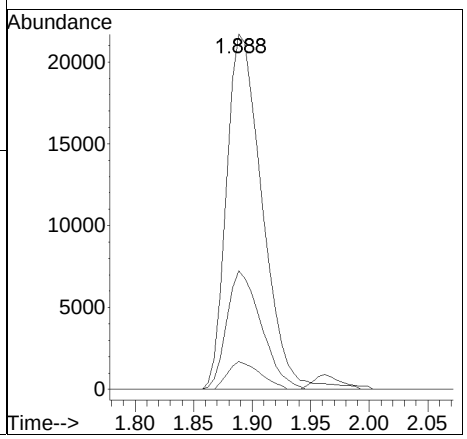


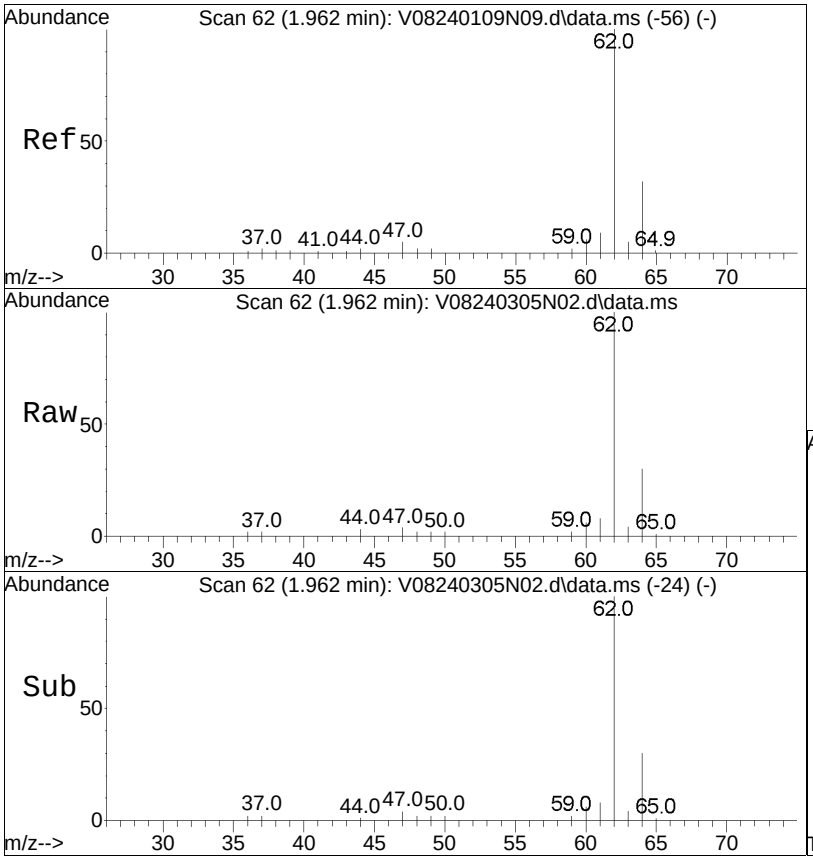


#3
Chloromethane
Concen: 11.51 ug/L
RT: 1.888 min Scan# 48
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 50 Resp: 46196

Ion	Ratio	Lower	Upper
50	100		
52	32.3	12.9	52.9
47	7.2	0.0	28.3

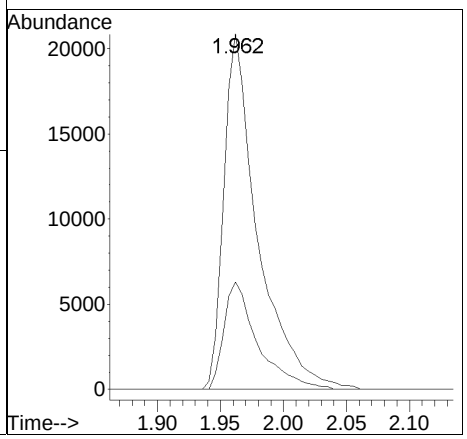


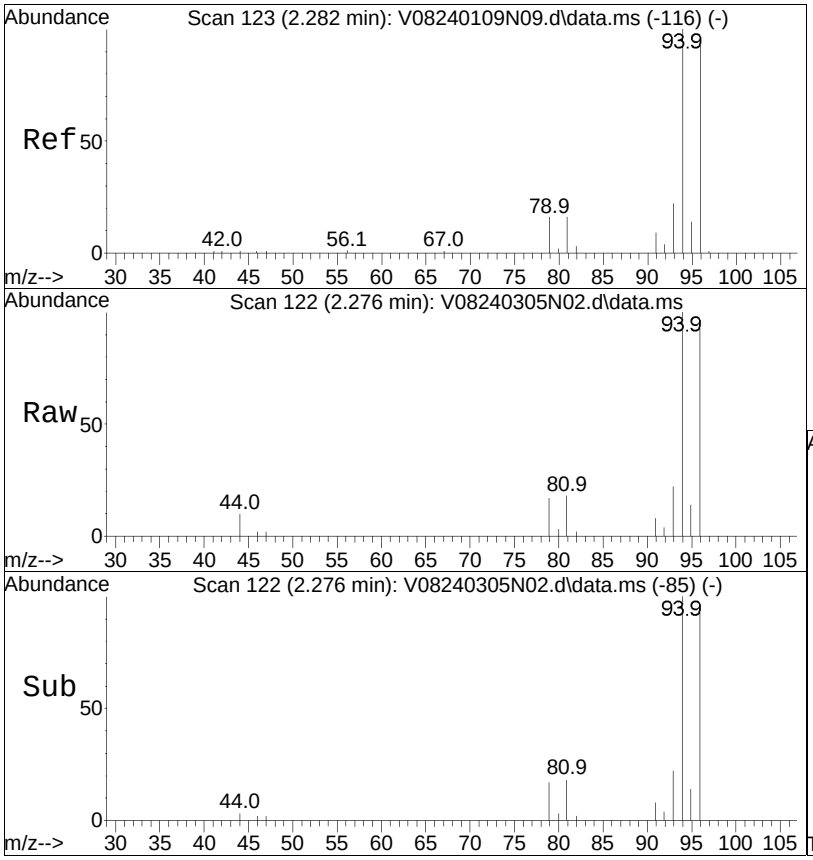


#4
Vinyl chloride
Concen: 9.12 ug/L
RT: 1.962 min Scan# 62
Delta R.T. -0.000 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 62 Resp: 39137

Ion	Ratio	Lower	Upper
62	100		
64	30.2	9.1	49.1

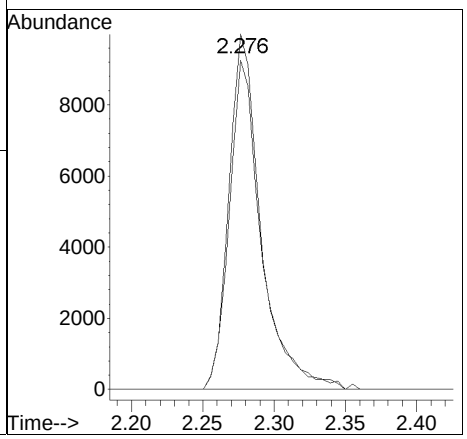


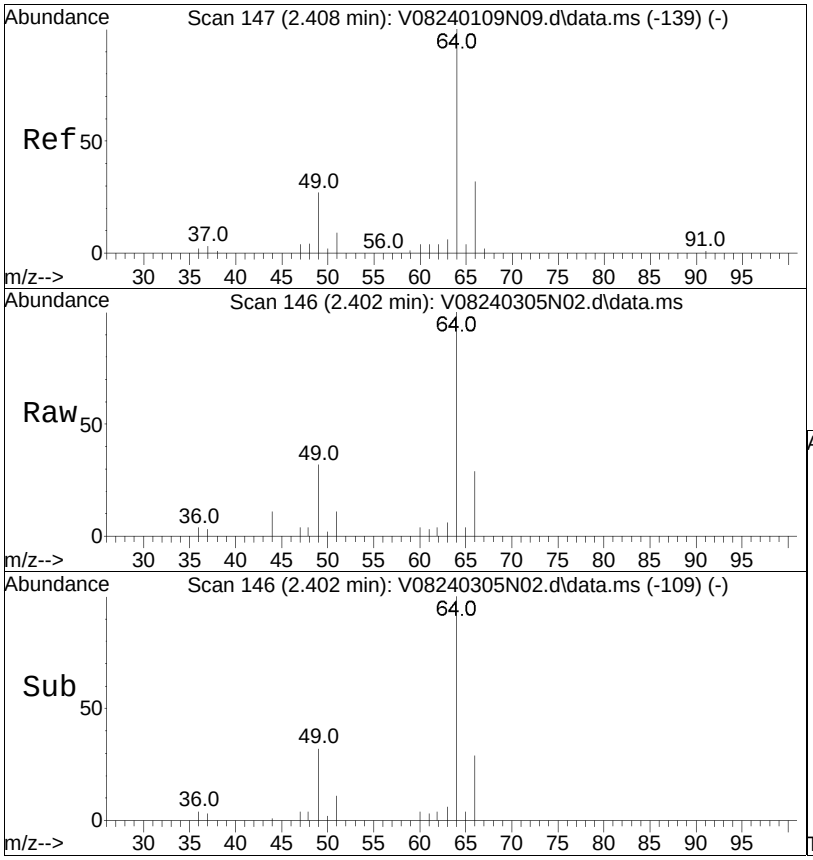


#5
Bromomethane
Concen: 5.57 ug/L
RT: 2.276 min Scan# 122
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 94 Resp: 15729

Ion	Ratio	Lower	Upper
94	100		
96	92.8	75.6	115.6

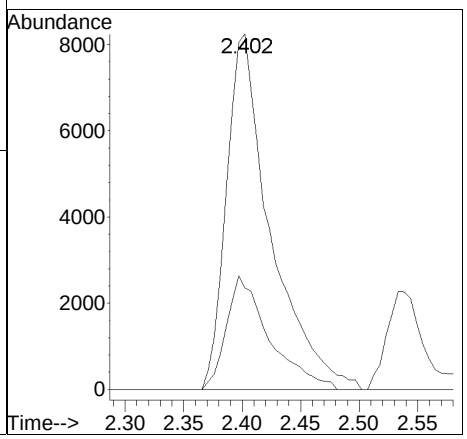


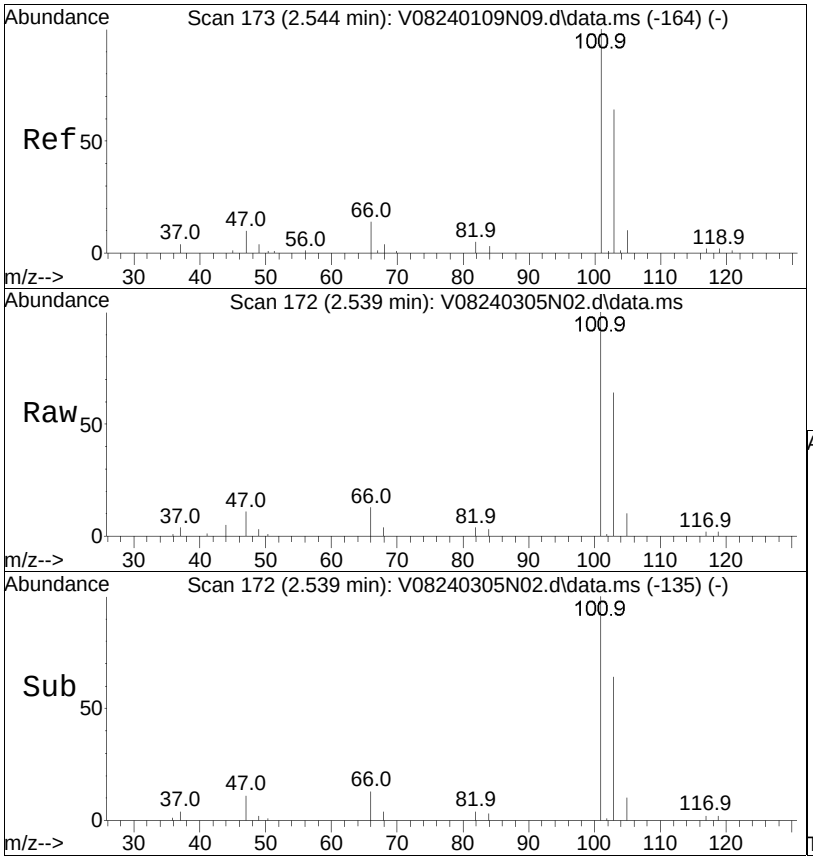


#6
Chloroethane
Concen: 7.95 ug/L
RT: 2.402 min Scan# 146
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 64 Resp: 21569

Ion	Ratio	Lower	Upper
64	100		
66	31.2	9.8	49.8

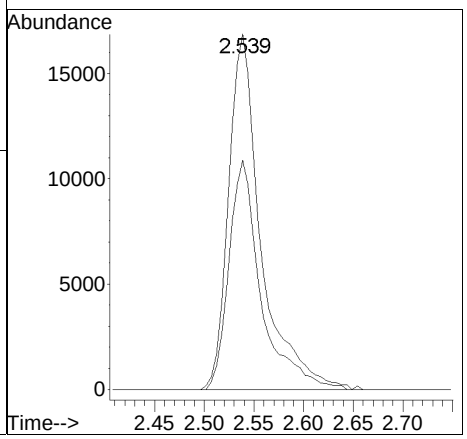


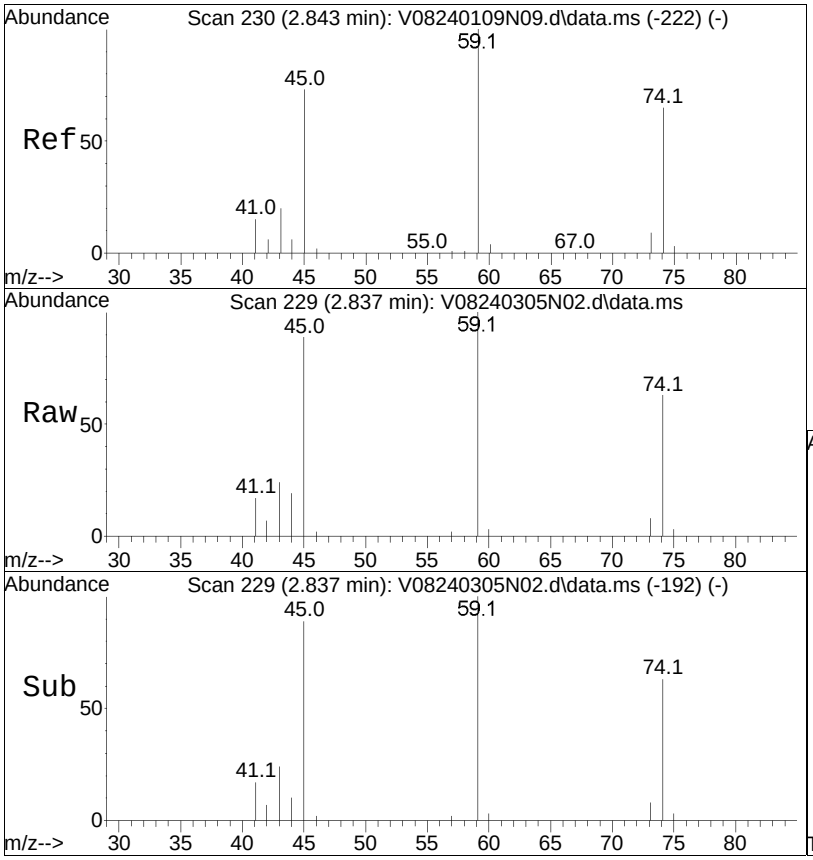


#7
Trichlorofluoromethane
Concen: 7.39 ug/L
RT: 2.539 min Scan# 172
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:101 Resp: 38295

Ion	Ratio	Lower	Upper
101	100		
103	63.8	53.8	80.6

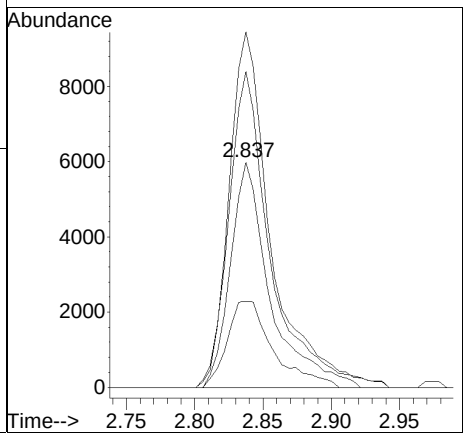


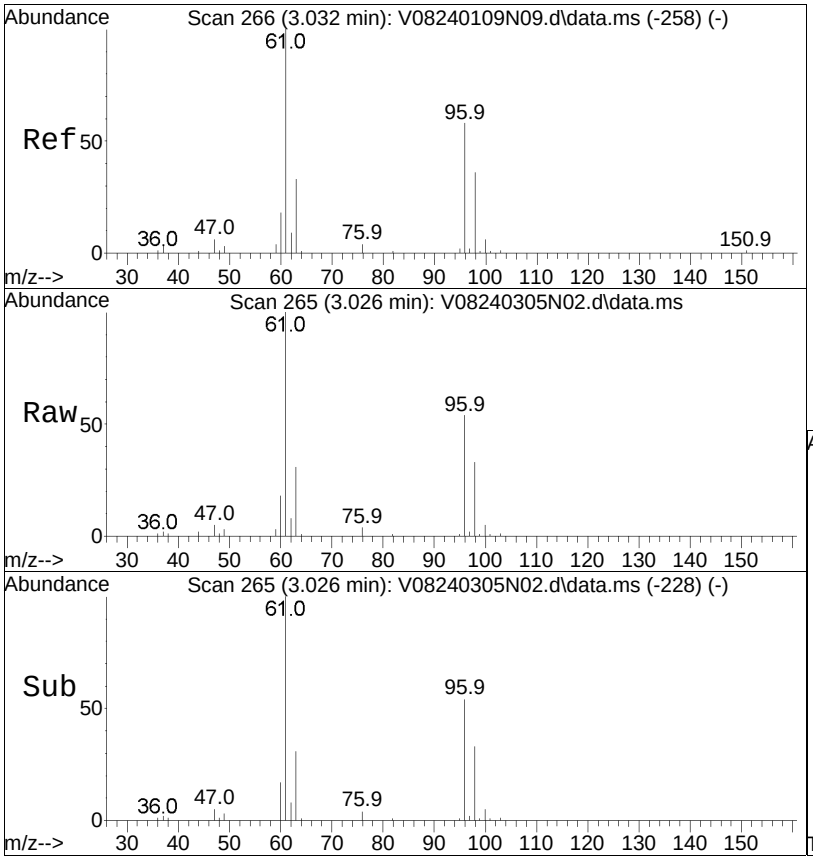


#8
Ethyl ether
Concen: 7.53 ug/L
RT: 2.837 min Scan# 229
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 74 Resp: 12115

Ion	Ratio	Lower	Upper
74	100		
59	167.1	122.2	253.8
45	148.0	91.9	190.9
43	44.4	25.2	52.2

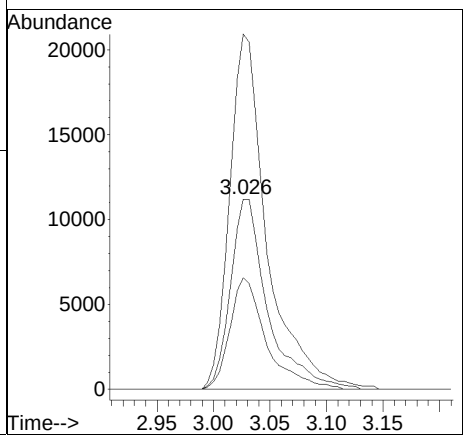


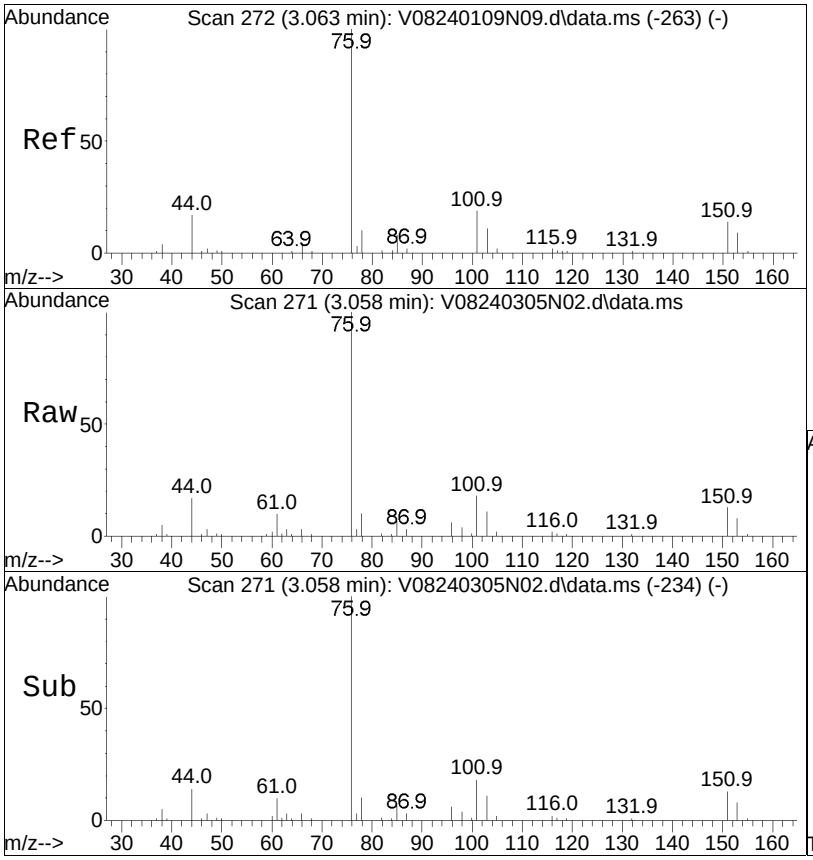


#10
1,1-Dichloroethene
Concen: 8.91 ug/L
RT: 3.026 min Scan# 265
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 96 Resp: 25792

Ion	Ratio	Lower	Upper
96	100		
61	187.4	186.1	279.1
63	57.6	57.6	86.4

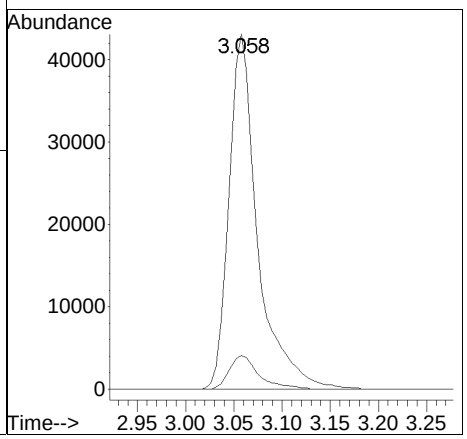


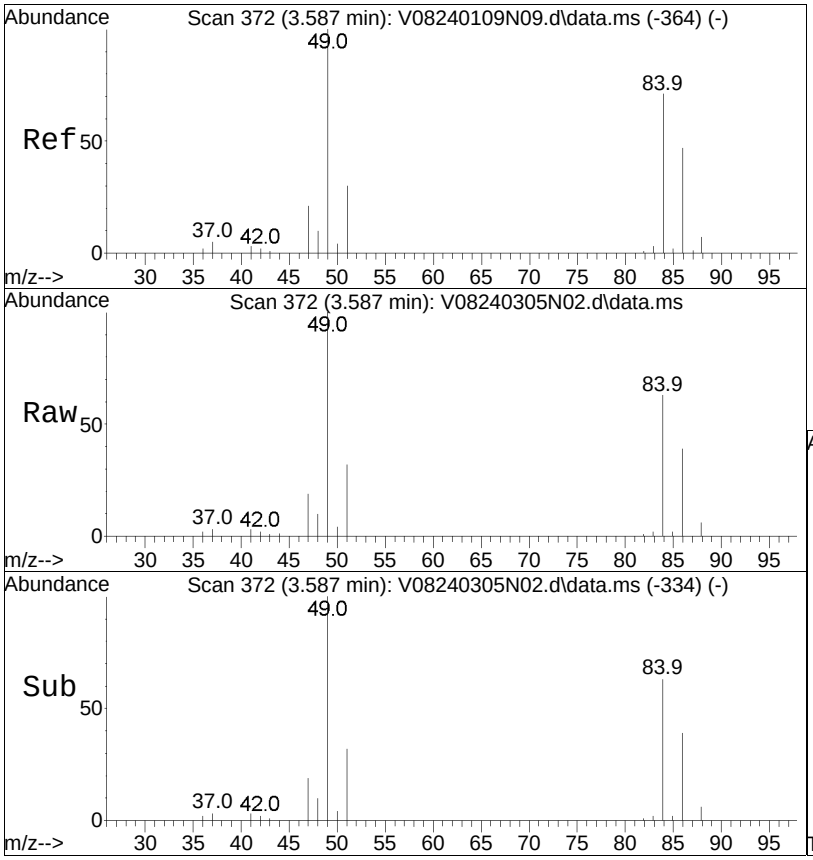


#11
Carbon disulfide
Concen: 8.98 ug/L
RT: 3.058 min Scan# 271
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 76 Resp: 89477

Ion	Ratio	Lower	Upper
76	100		
78	10.0	5.7	11.7

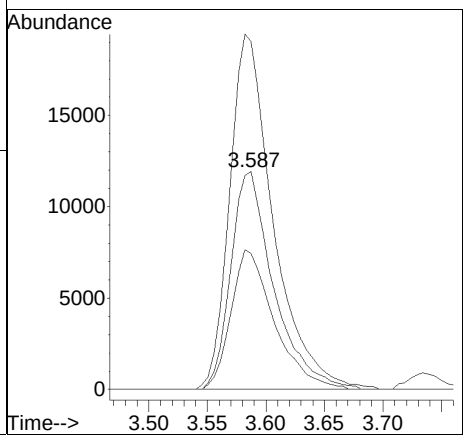


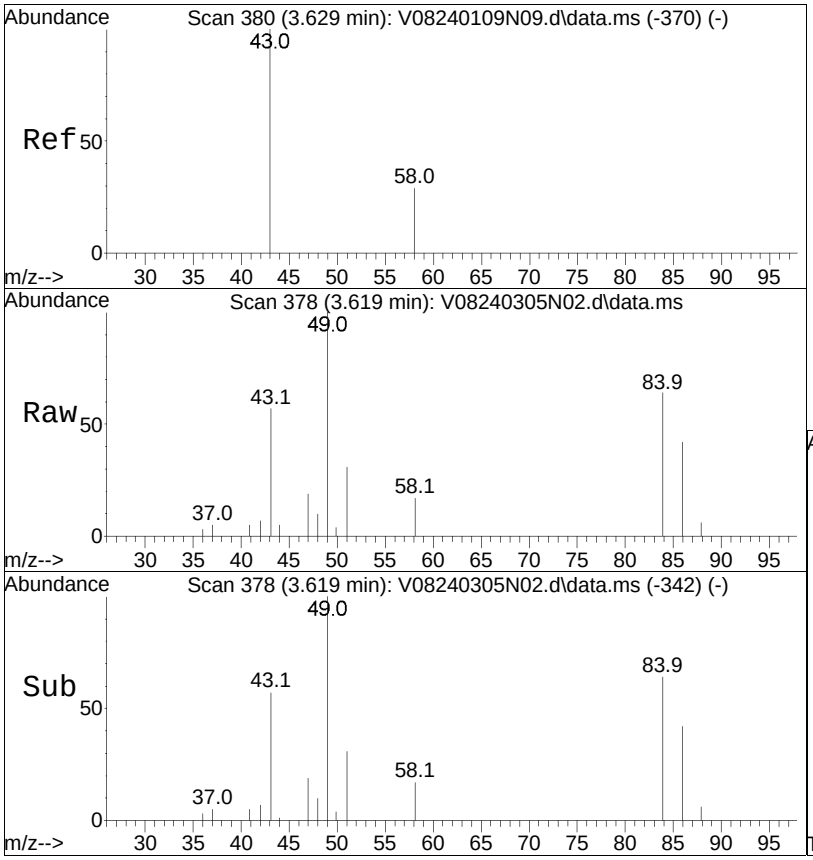


#15
Methylene chloride
Concen: 8.88 ug/L
RT: 3.587 min Scan# 372
Delta R.T. -0.000 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 84 Resp: 30450

Ion	Ratio	Lower	Upper
84	100		
86	64.7	40.4	83.8
49	165.6	120.0	249.2

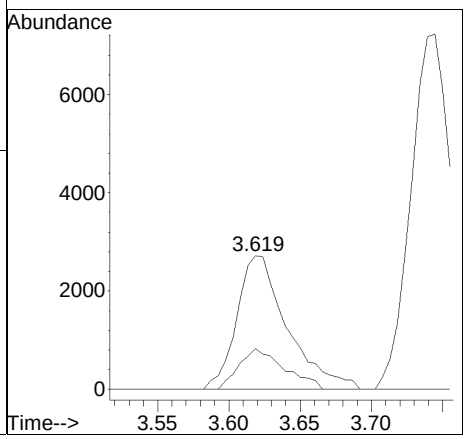


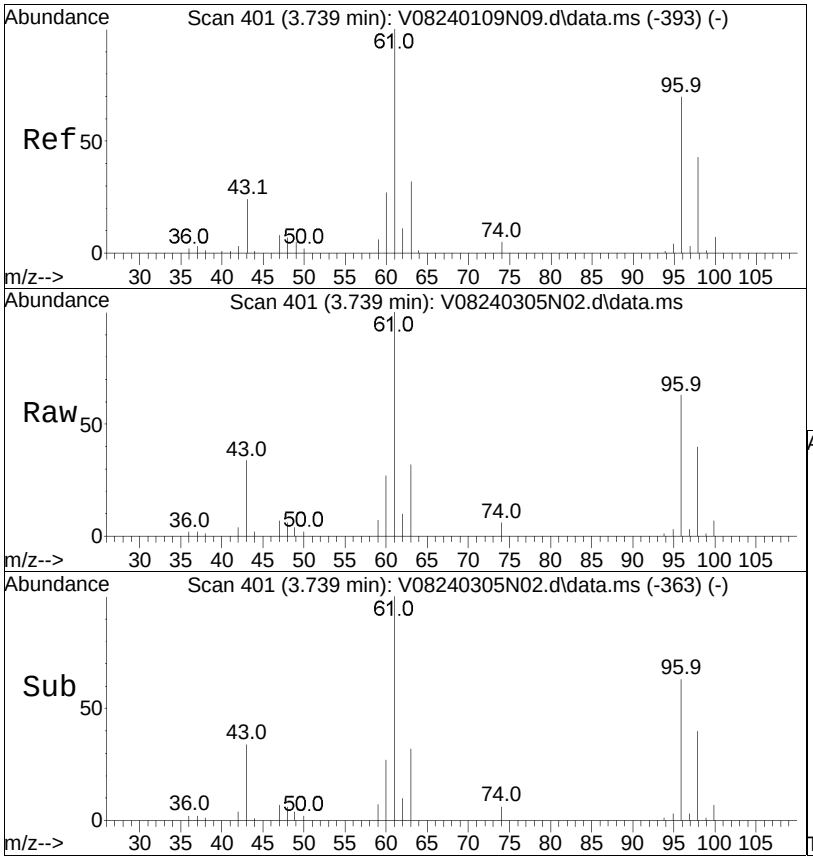


#17
Acetone
Concen: 11.99 ug/L
RT: 3.619 min Scan# 378
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 43 Resp: 6713

Ion	Ratio	Lower	Upper
43	100		
58	27.5	24.2	36.4

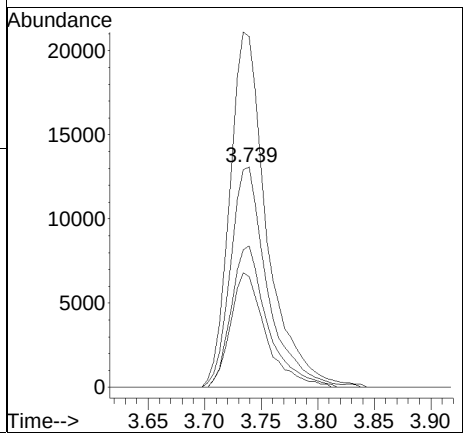


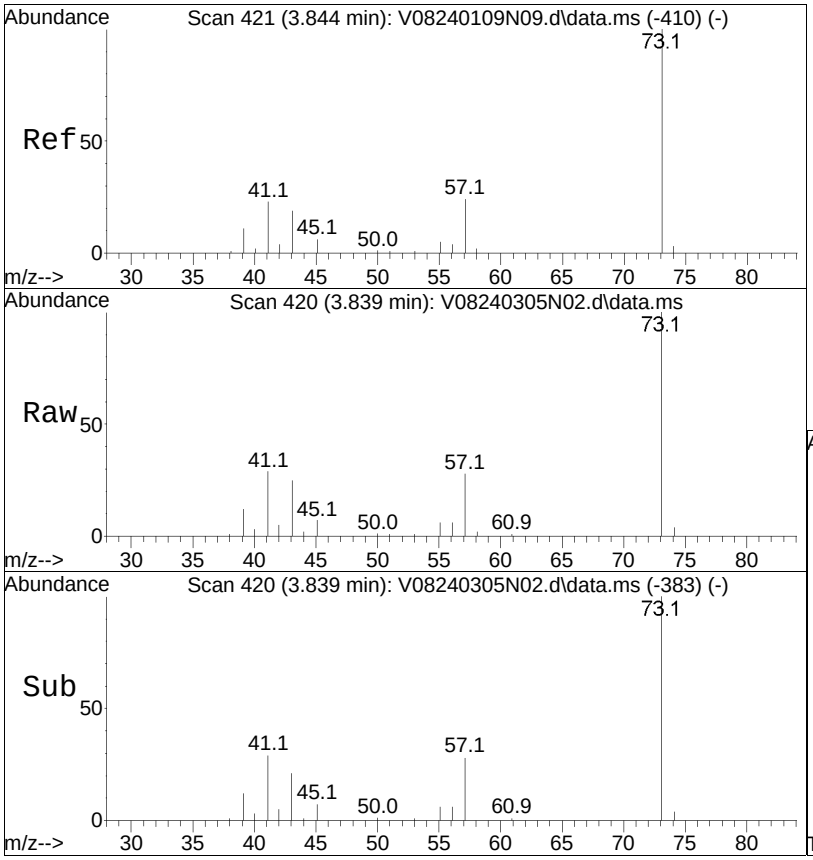


#18
trans-1,2-Dichloroethene
Concen: 8.95 ug/L
RT: 3.739 min Scan# 401
Delta R.T. -0.000 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 96 Resp: 29909

Ion	Ratio	Lower	Upper
96	100		
61	161.5	124.0	257.6
98	63.0	41.2	85.6
63	49.9	38.4	79.7

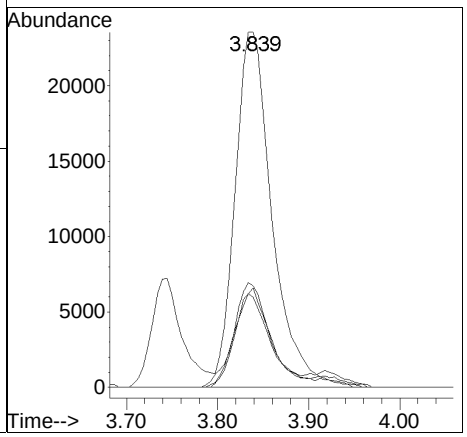


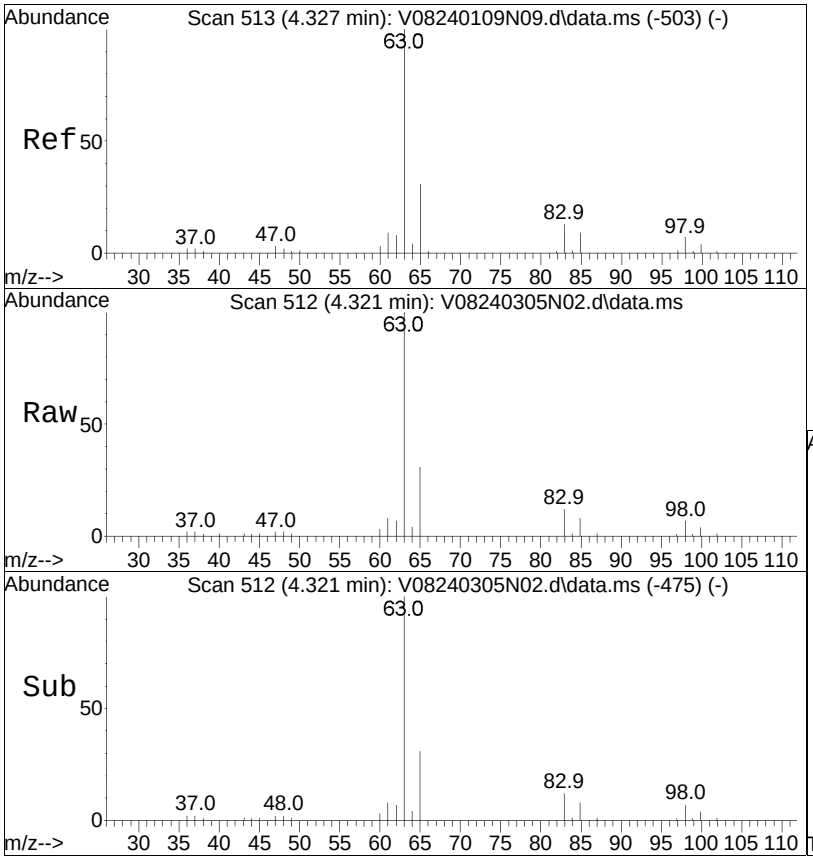


#20
Methyl tert-butyl ether
Concen: 8.78 ug/L
RT: 3.839 min Scan# 420
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 73 Resp: 66868

Ion	Ratio	Lower	Upper
73	100		
57	26.8	17.5	36.3
43	22.0	15.3	31.9
41	28.3	15.3	31.7

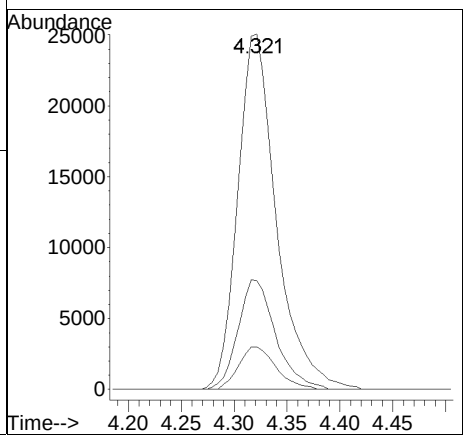


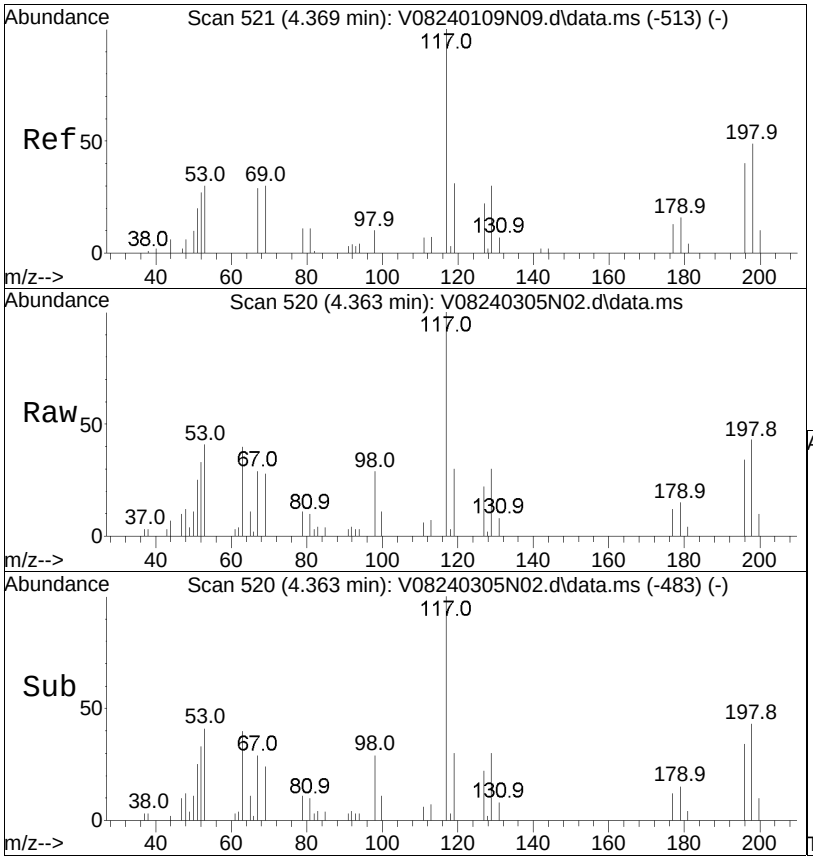


#23
1,1-Dichloroethane
Concen: 9.77 ug/L
RT: 4.321 min Scan# 512
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 63 Resp: 63793

Ion	Ratio	Lower	Upper
63	100		
65	30.0	11.0	51.0
83	11.6	0.0	31.8

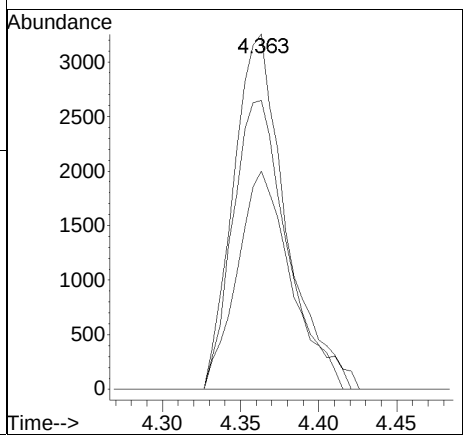


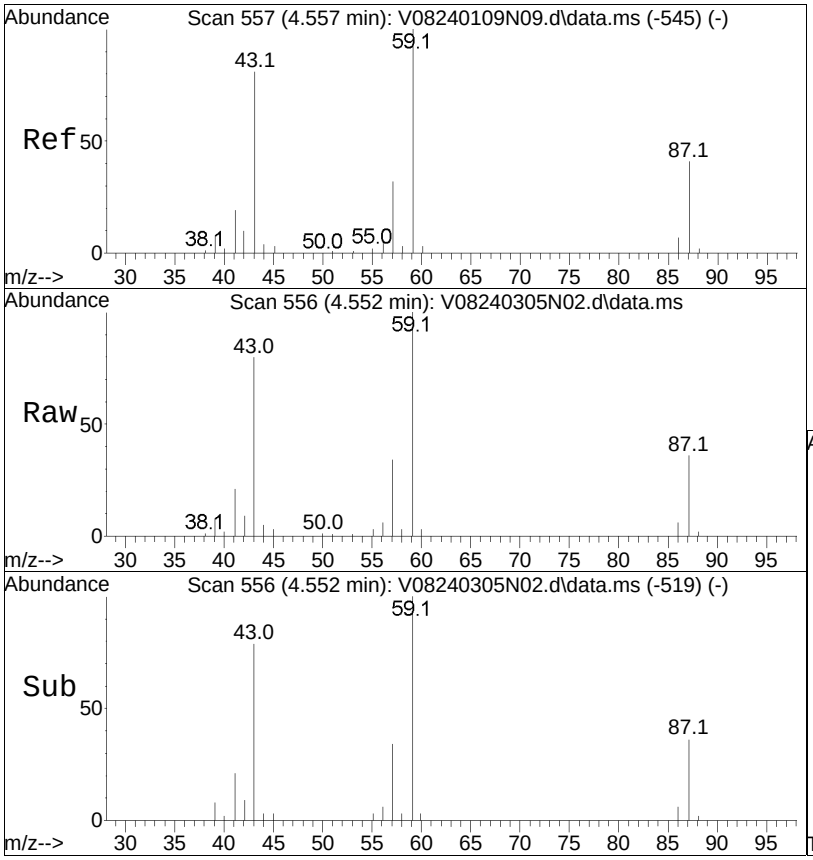


#25
Acrylonitrile
Concen: 11.65 ug/L
RT: 4.363 min Scan# 520
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 53 Resp: 7676

Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.7	100.1
51	62.6	30.6	46.0#

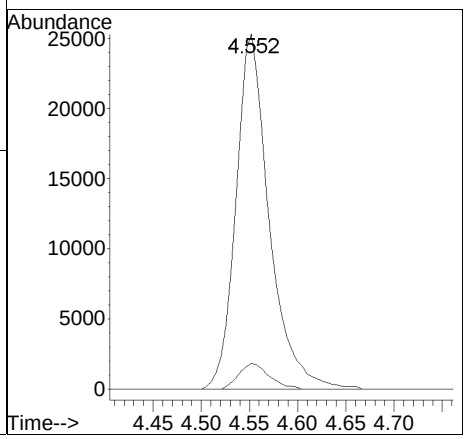


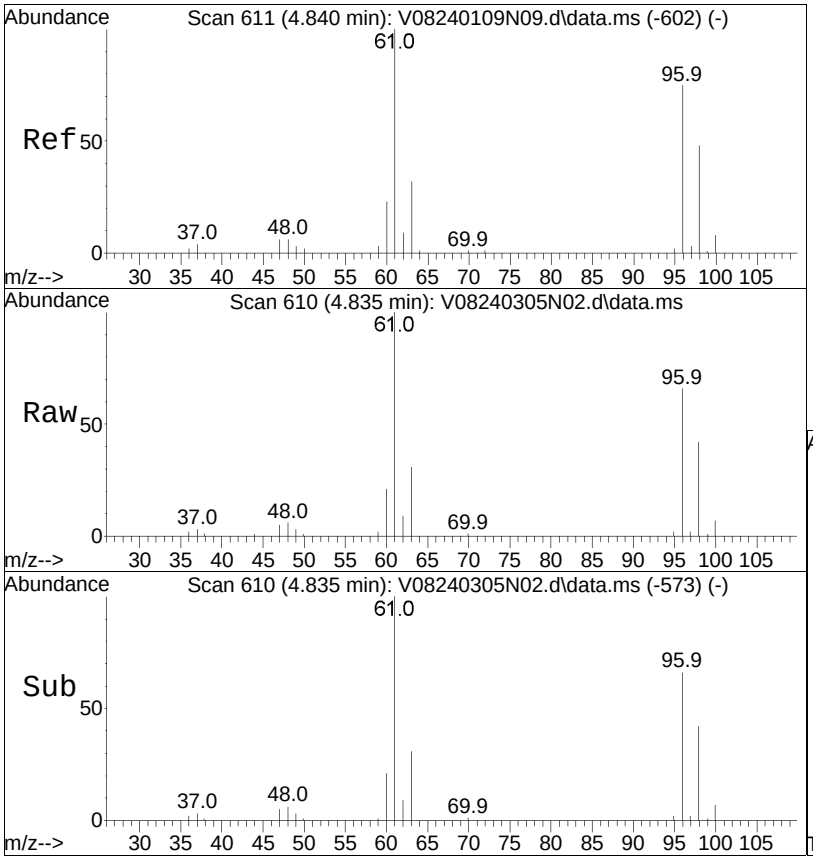


#27
Vinyl acetate
Concen: 9.45 ug/L
RT: 4.552 min Scan# 556
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 43 Resp: 60911

Ion	Ratio	Lower	Upper
43	100		
86	6.8	5.2	7.8

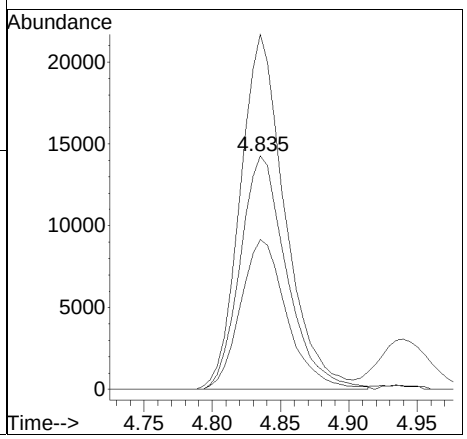


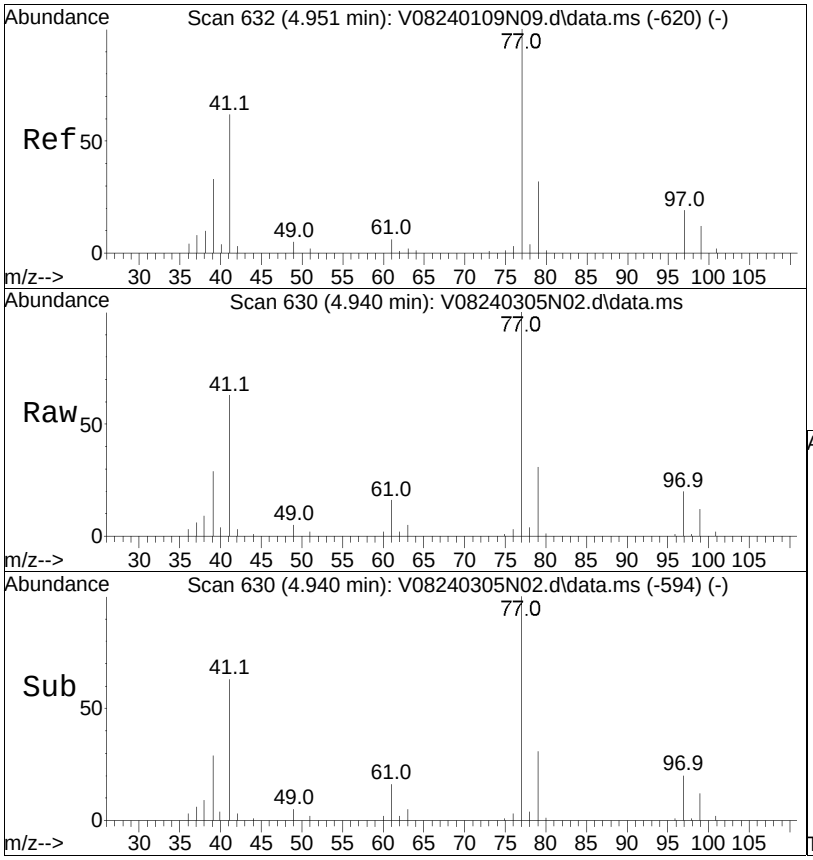


#28
cis-1,2-Dichloroethene
Concen: 8.78 ug/L
RT: 4.835 min Scan# 610
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 96 Resp: 33820

Ion	Ratio	Lower	Upper
96	100		
61	146.9	149.4	224.2#
98	64.1	53.4	80.2

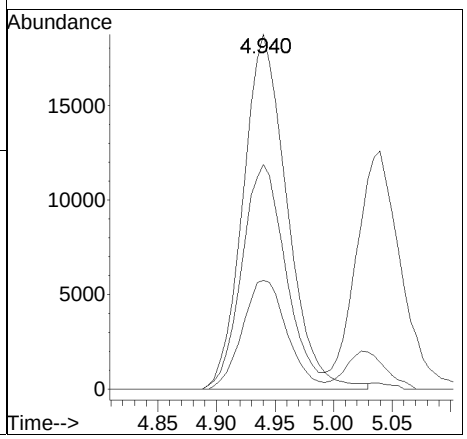


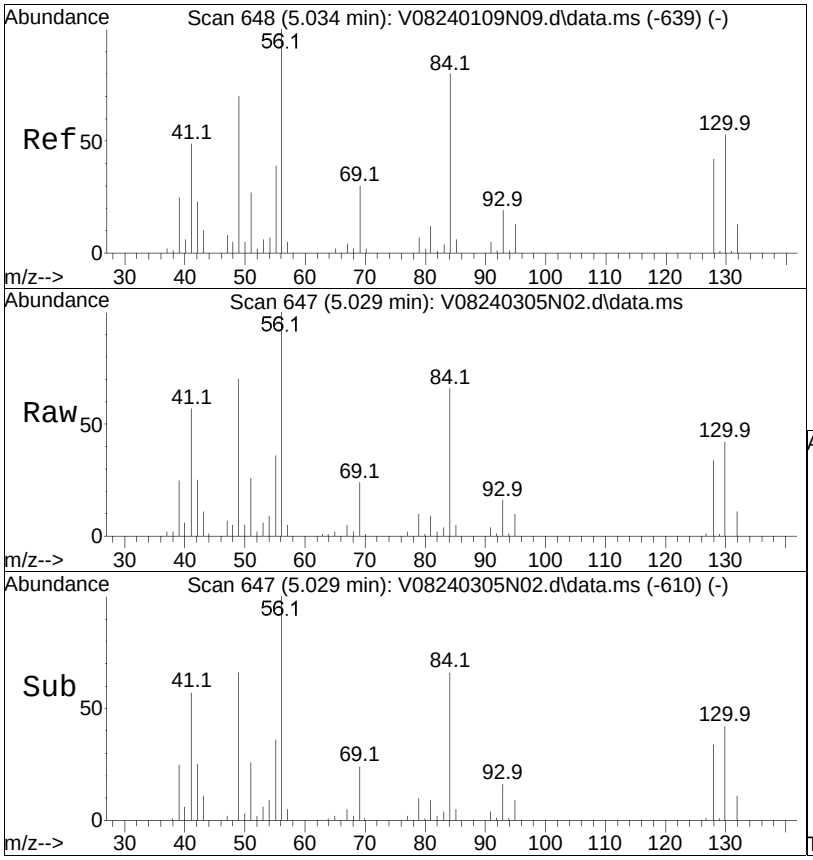


#29
2,2-Dichloropropane
Concen: 9.25 ug/L
RT: 4.940 min Scan# 630
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 77 Resp: 48975

Ion	Ratio	Lower	Upper
77	100		
41	62.9	38.0	78.8
79	31.3	20.5	42.5

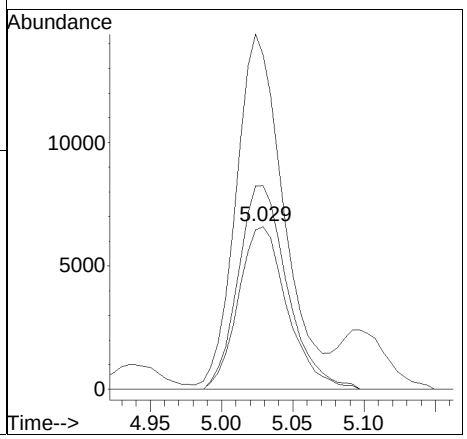


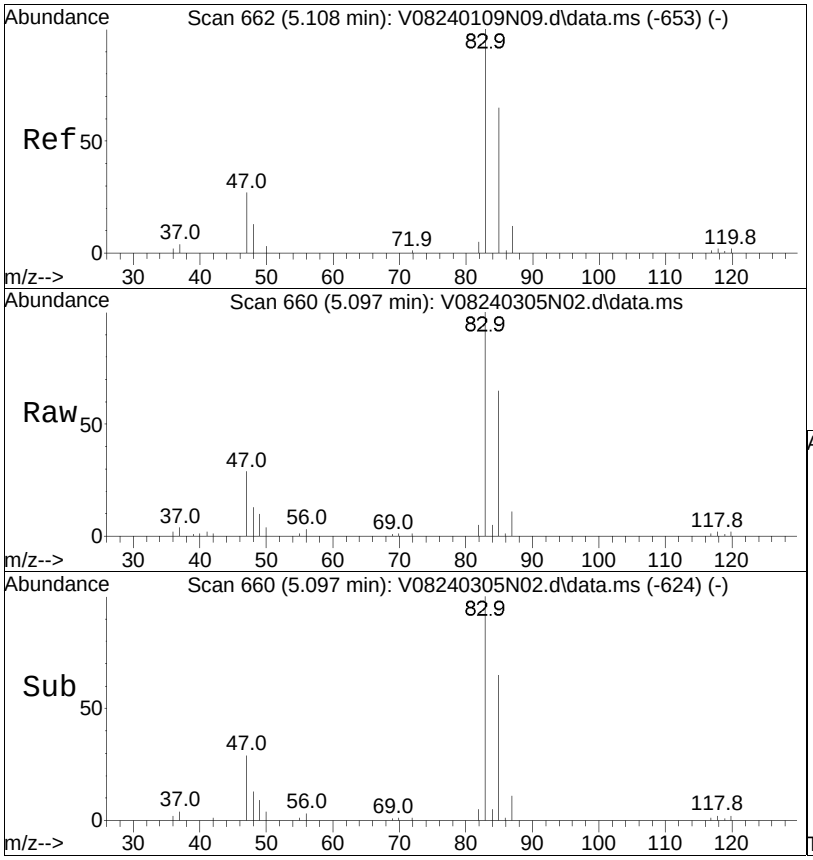


#30
Bromochloromethane
Concen: 8.76 ug/L
RT: 5.029 min Scan# 647
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:128 Resp: 15733

Ion	Ratio	Lower	Upper
128	100		
49	211.3	223.0	334.4#
130	125.7	111.4	167.0

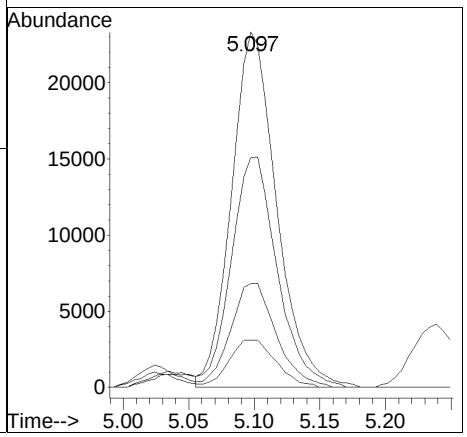


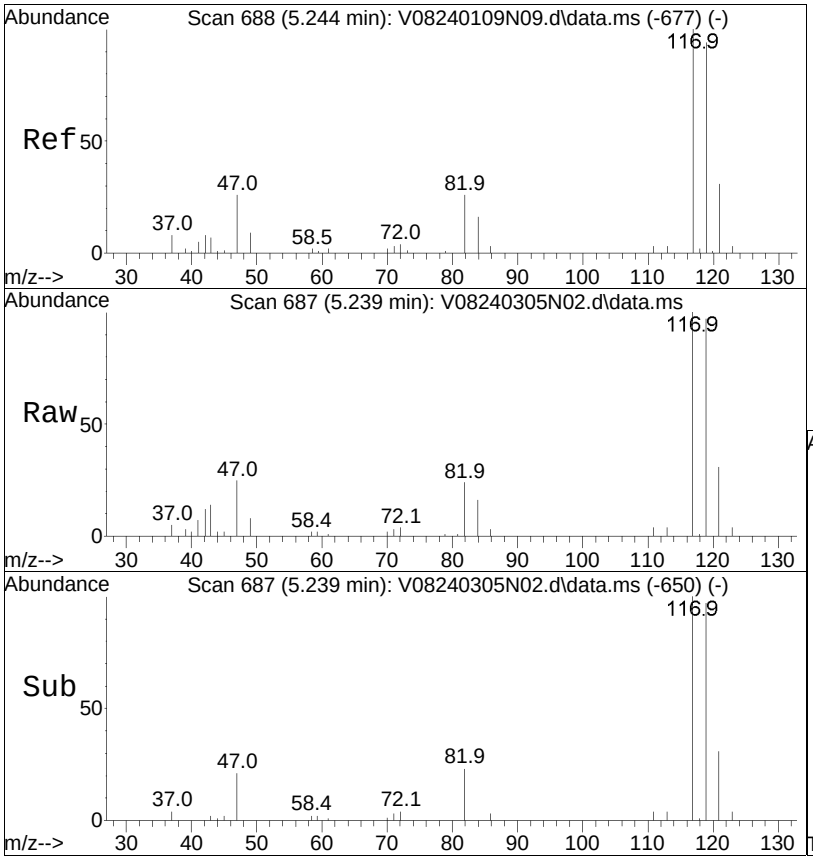


#32
Chloroform
Concen: 9.05 ug/L
RT: 5.097 min Scan# 660
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 83 Resp: 56155

Ion	Ratio	Lower	Upper
83	100		
85	65.9	41.5	86.1
47	29.8	19.0	39.4
48	13.8	9.9	20.5

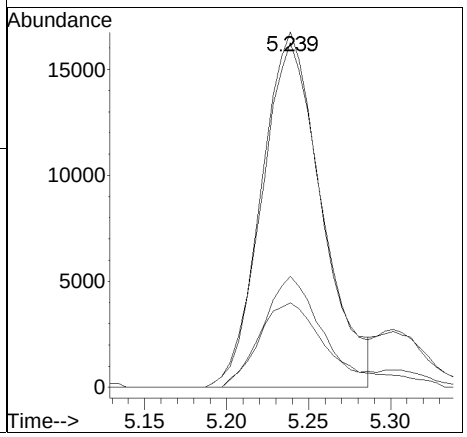


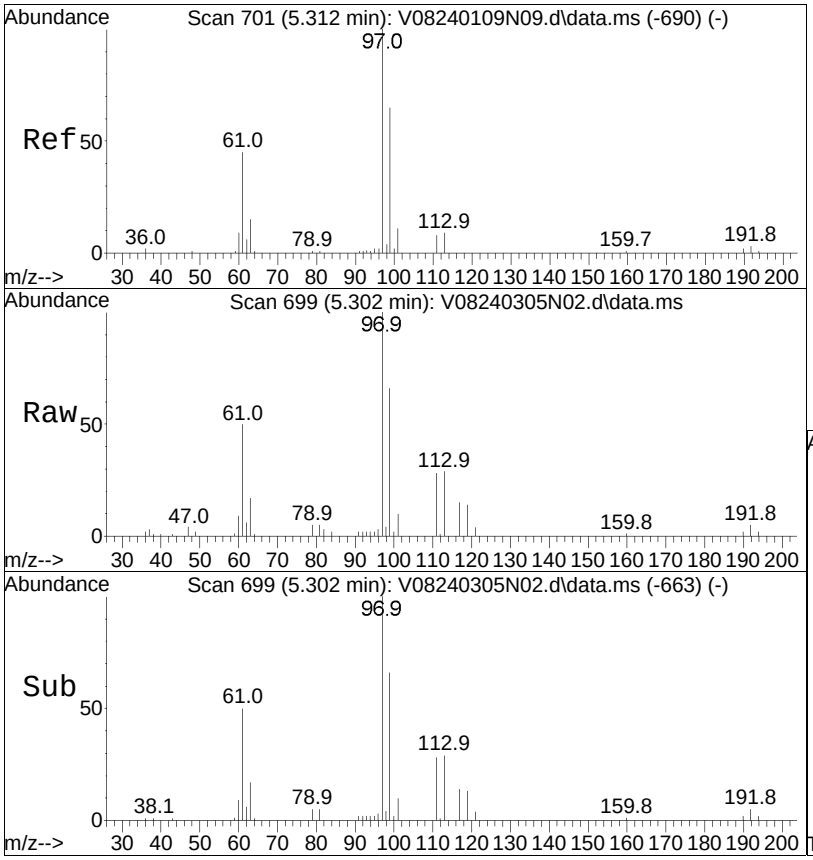


#34
Carbon tetrachloride
Concen: 8.87 ug/L
RT: 5.239 min Scan# 687
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:117 Resp: 42985

Ion	Ratio	Lower	Upper
117	100		
119	96.7	62.4	129.6
121	31.0	19.5	40.5
82	28.3	17.0	35.4

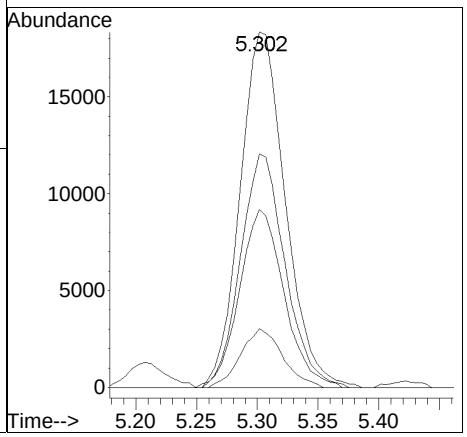


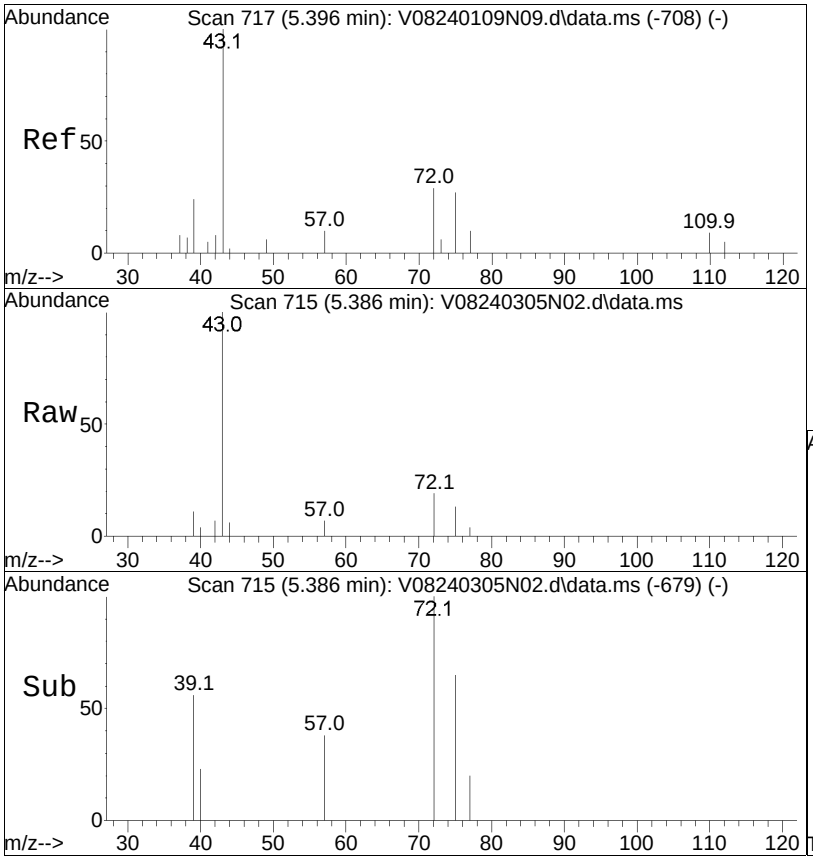


#37
1,1,1-Trichloroethane
Concen: 8.76 ug/L
RT: 5.302 min Scan# 699
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 97 Resp: 47640

Ion	Ratio	Lower	Upper
97	100		
99	64.6	40.7	84.5
61	49.3	35.4	73.4
63	15.3	5.0	10.4#

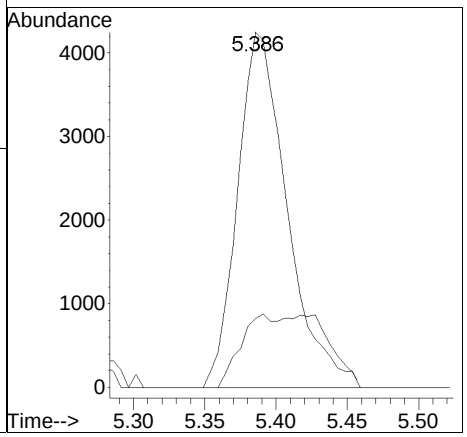


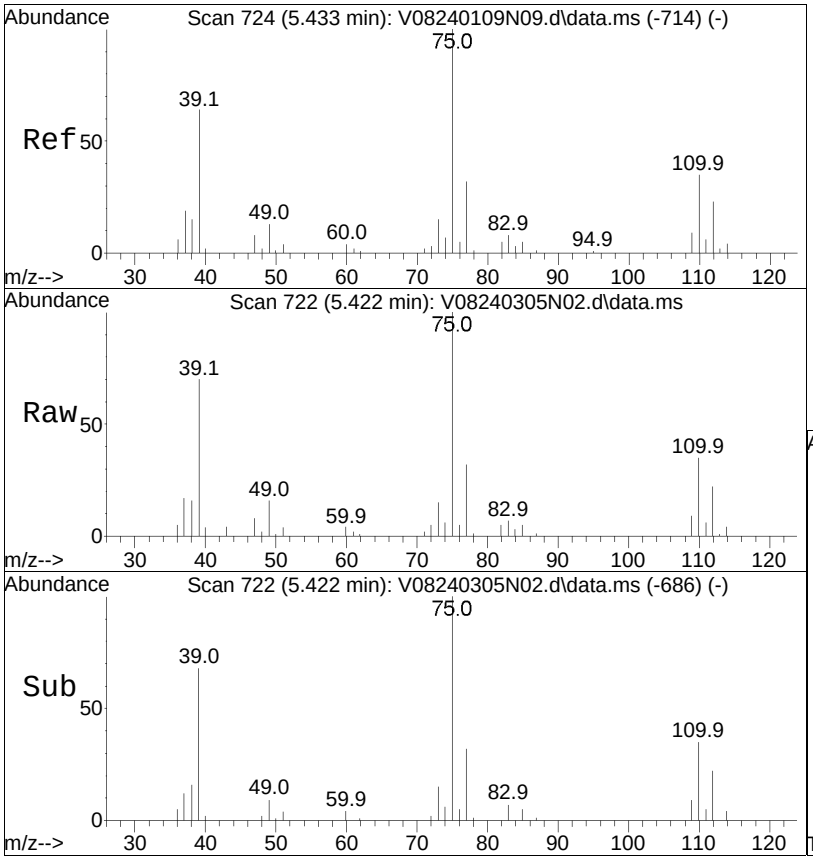


#39
2-Butanone
Concen: 11.77 ug/L
RT: 5.386 min Scan# 715
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 43 Resp: 10254

Ion	Ratio	Lower	Upper
43	100		
72	15.5	10.9	16.3

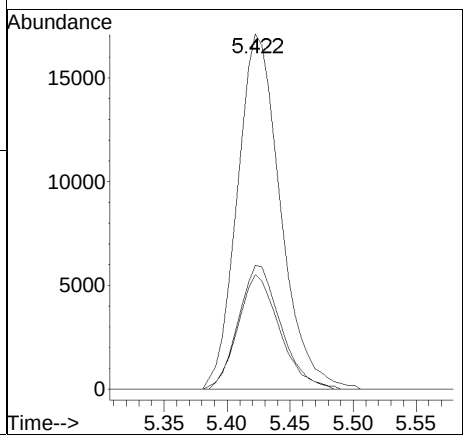


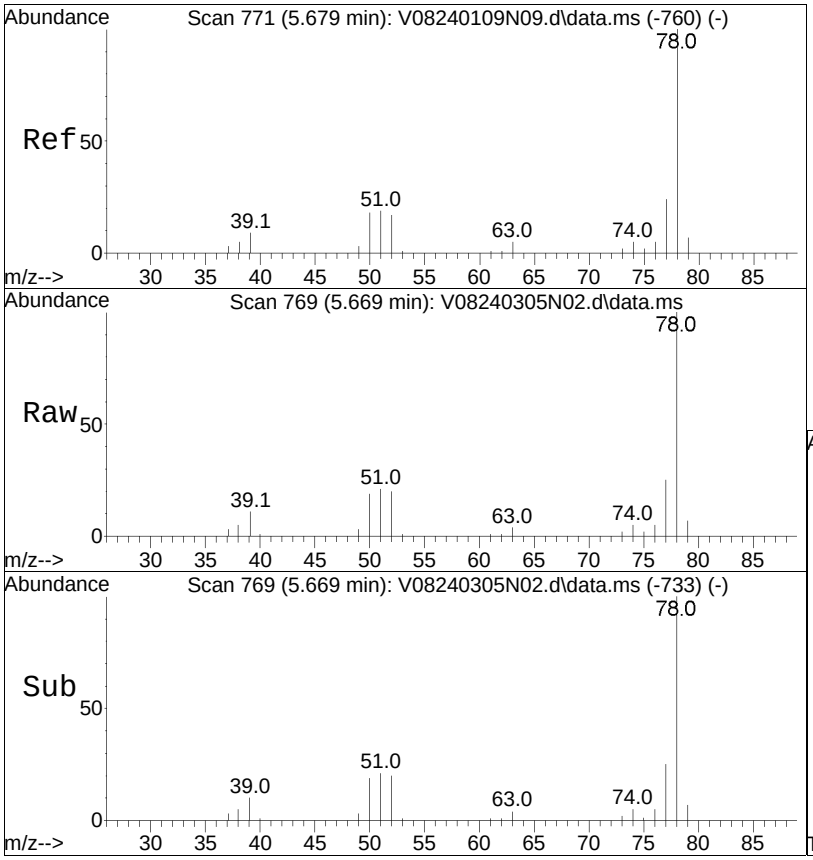


#40
1,1-Dichloropropene
Concen: 8.89 ug/L
RT: 5.422 min Scan# 722
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 75 Resp: 40808

Ion	Ratio	Lower	Upper
75	100		
110	34.2	20.2	41.9
77	31.2	20.1	41.7

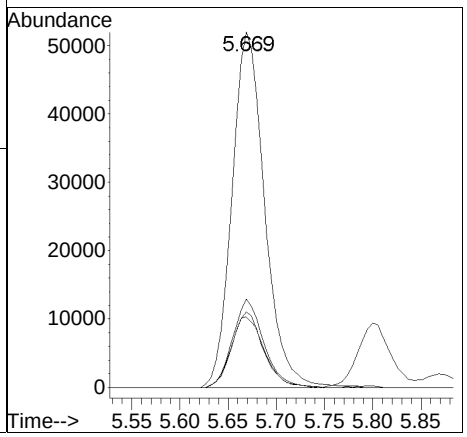


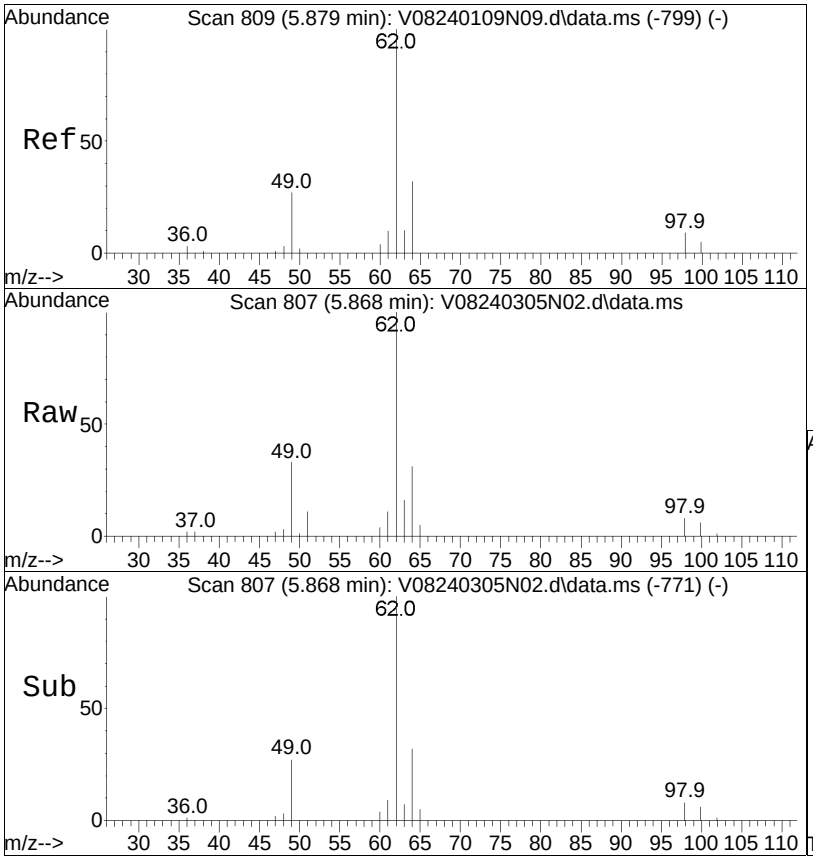


#41
Benzene
Concen: 9.14 ug/L
RT: 5.669 min Scan# 769
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 78 Resp: 122292

Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.7	32.7
51	20.6	16.0	33.2
52	20.1	15.3	31.9

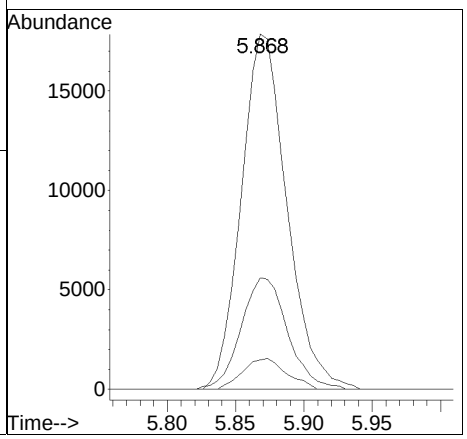


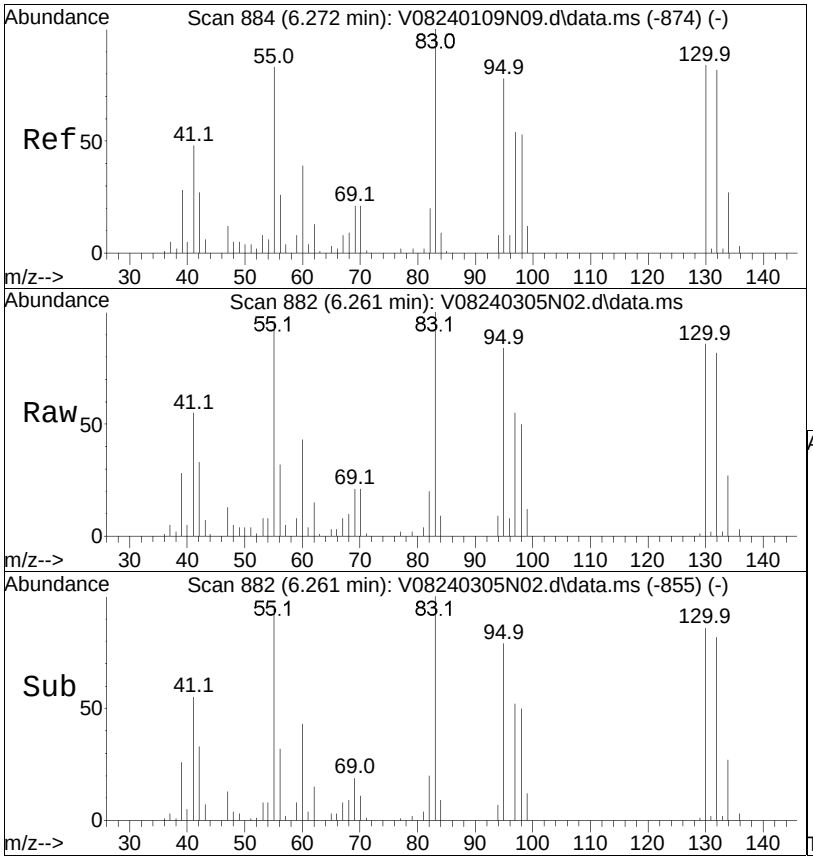


#44
1,2-Dichloroethane
Concen: 9.34 ug/L
RT: 5.868 min Scan# 807
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 62 Resp: 41473

Ion	Ratio	Lower	Upper
62	100		
64	32.1	11.2	51.2
98	8.4	0.0	26.1

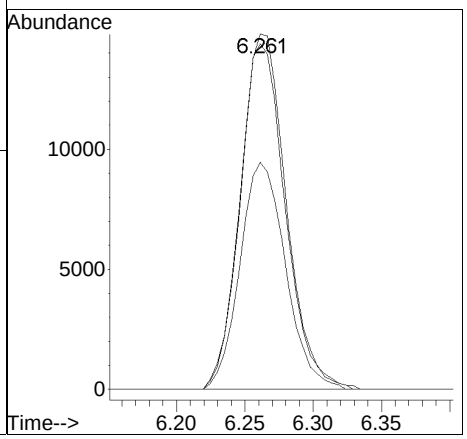


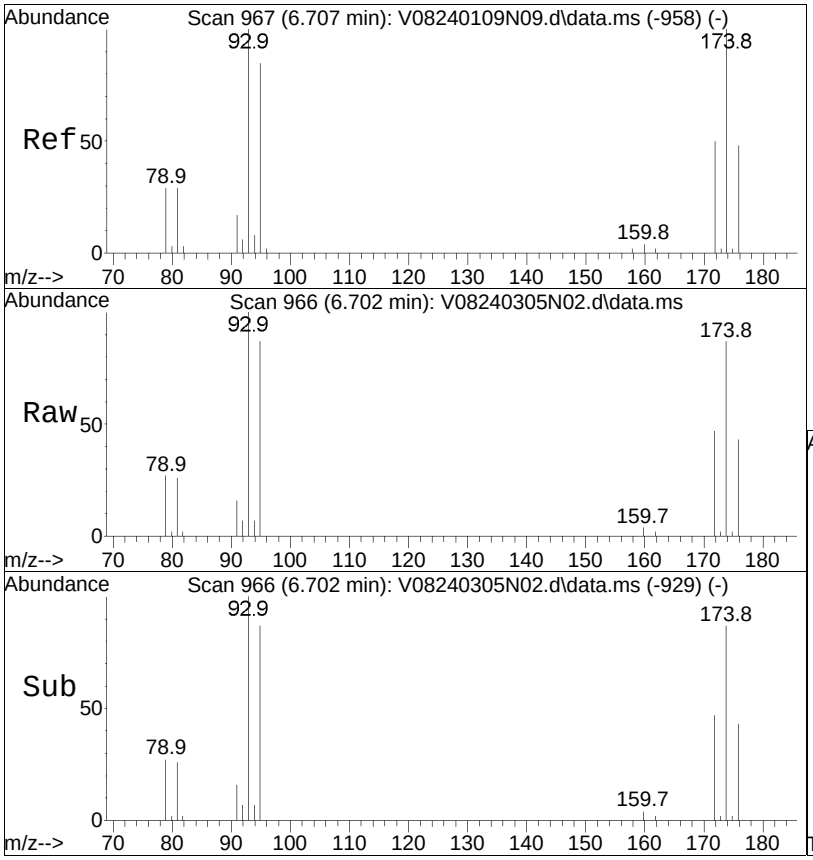


#48
Trichloroethene
Concen: 9.53 ug/L
RT: 6.261 min Scan# 882
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 95 Resp: 33347

Ion	Ratio	Lower	Upper
95	100		
97	66.0	55.5	83.3
130	102.9	76.6	115.0

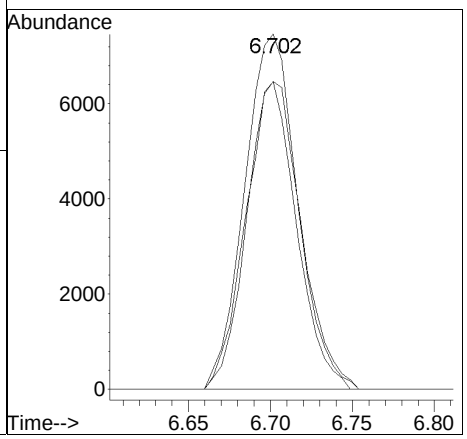


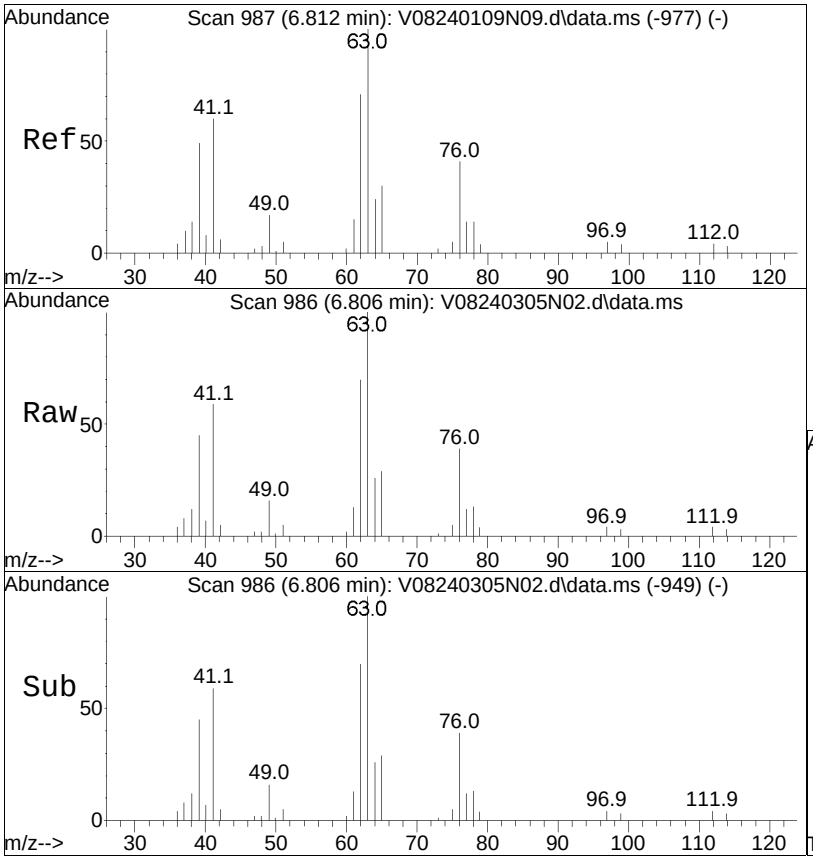


#50
Dibromomethane
Concen: 8.66 ug/L
RT: 6.702 min Scan# 966
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 93 Resp: 16838

Ion	Ratio	Lower	Upper
93	100		
95	82.7	67.0	100.4
174	88.1	75.0	112.4

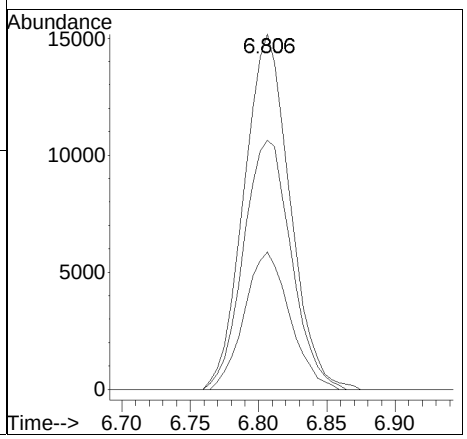


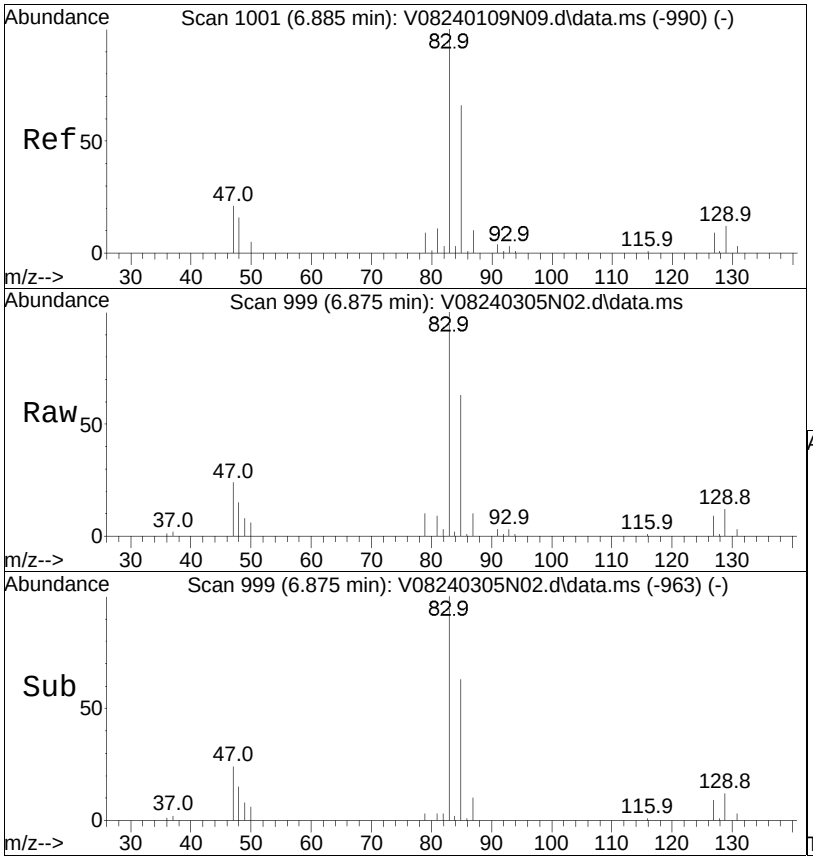


#51
1,2-Dichloropropane
Concen: 9.81 ug/L
RT: 6.806 min Scan# 986
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 63 Resp: 35465

Ion	Ratio	Lower	Upper
63	100		
62	72.9	58.6	87.8
76	38.4	38.0	57.0

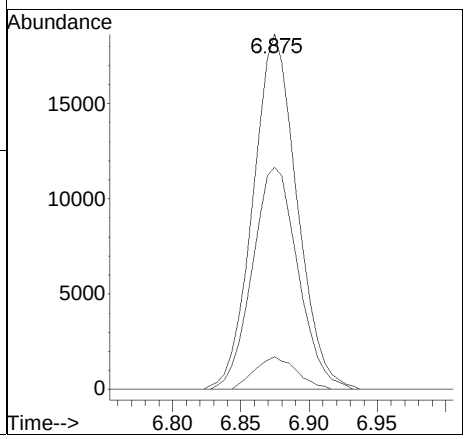


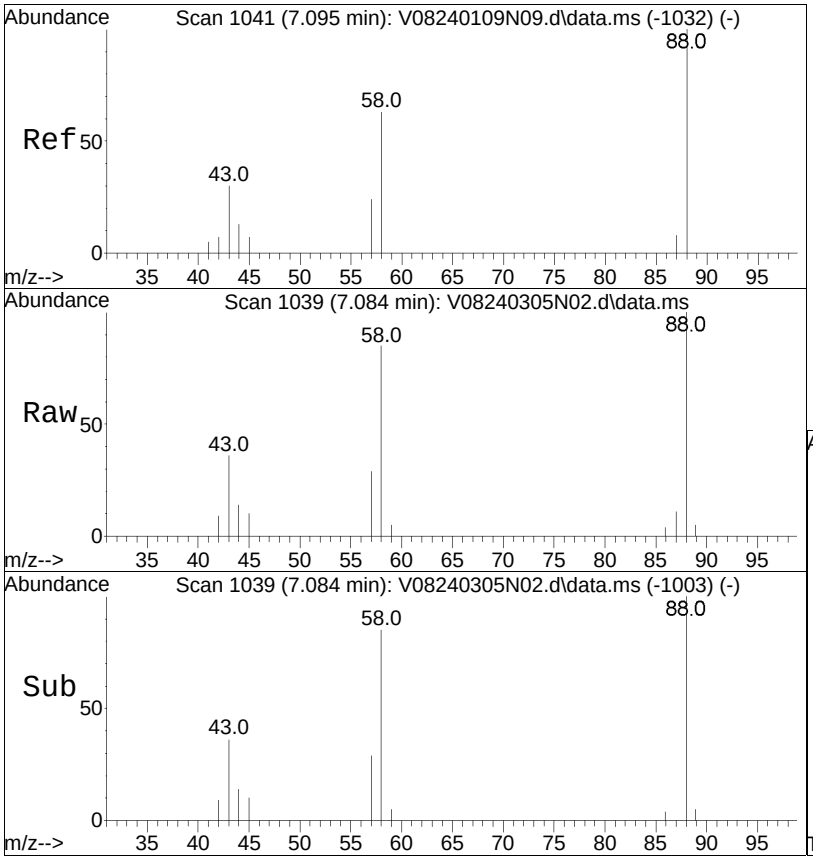


#54
Bromodichloromethane
Concen: 8.79 ug/L
RT: 6.875 min Scan# 999
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 83 Resp: 41762

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.3	78.5
127	8.8	6.2	9.4

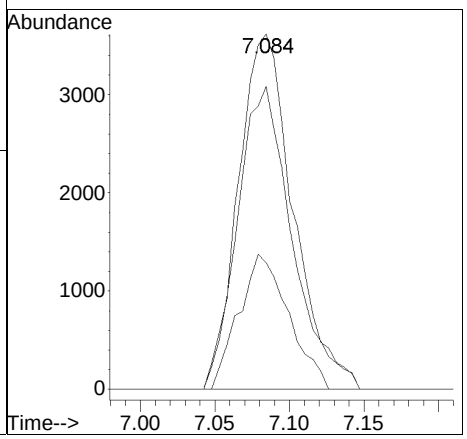


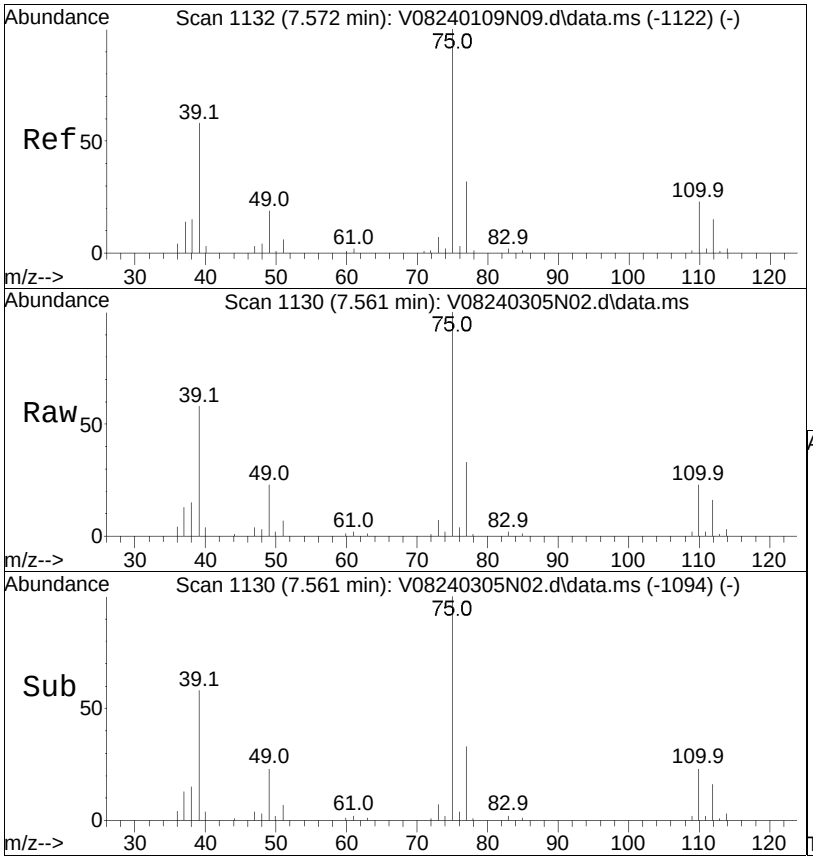


#57
1,4-Dioxane
Concen: 742.60 ug/L
RT: 7.084 min Scan# 1039
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 88 Resp: 9278

Ion	Ratio	Lower	Upper
88	100		
58	84.4	76.7	115.1
43	34.6	36.2	54.2#

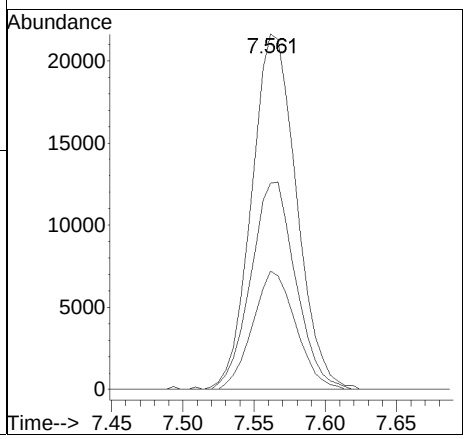


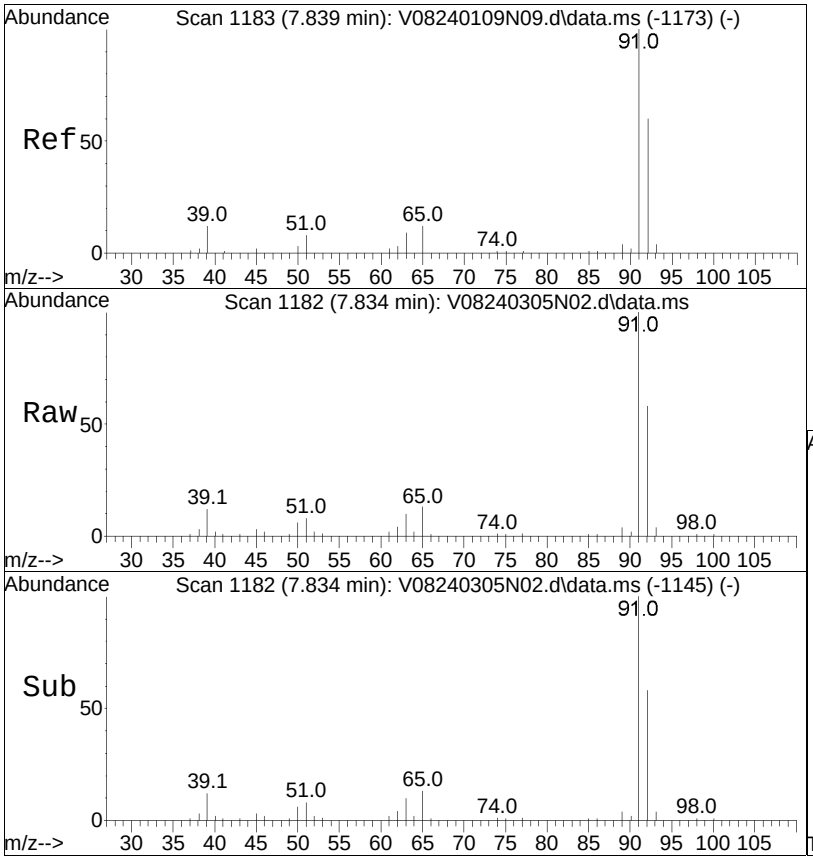


#58
cis-1,3-Dichloropropene
Concen: 8.57 ug/L
RT: 7.561 min Scan# 1130
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 75 Resp: 47404

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.0	37.4
39	58.3	50.1	75.1

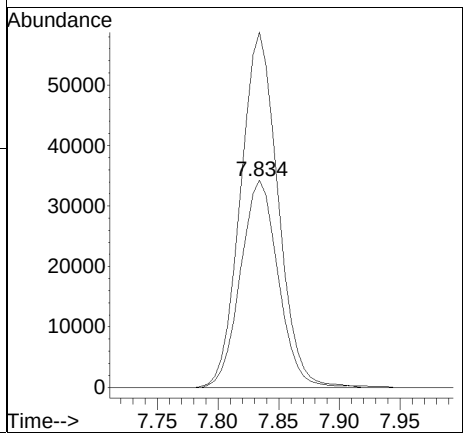


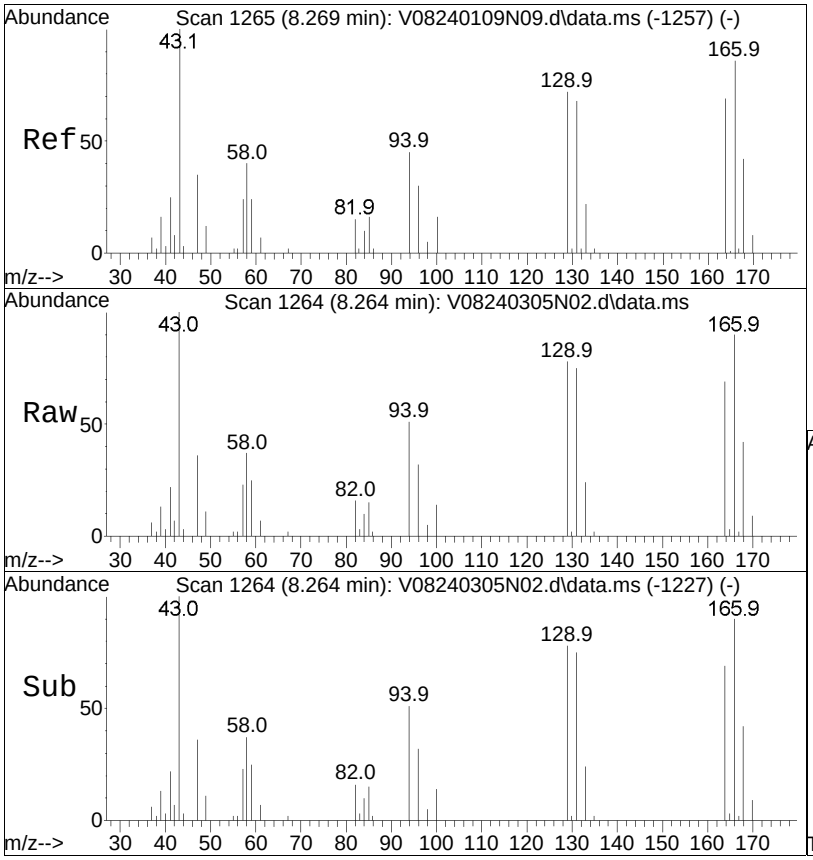


#61
Toluene
Concen: 9.13 ug/L
RT: 7.834 min Scan# 1182
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 92 Resp: 73943

Ion	Ratio	Lower	Upper
92	100		
91	170.7	139.8	209.6

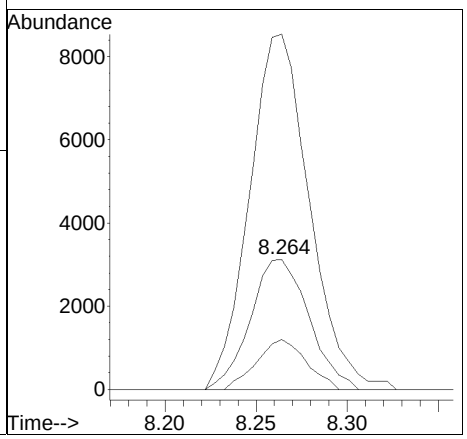


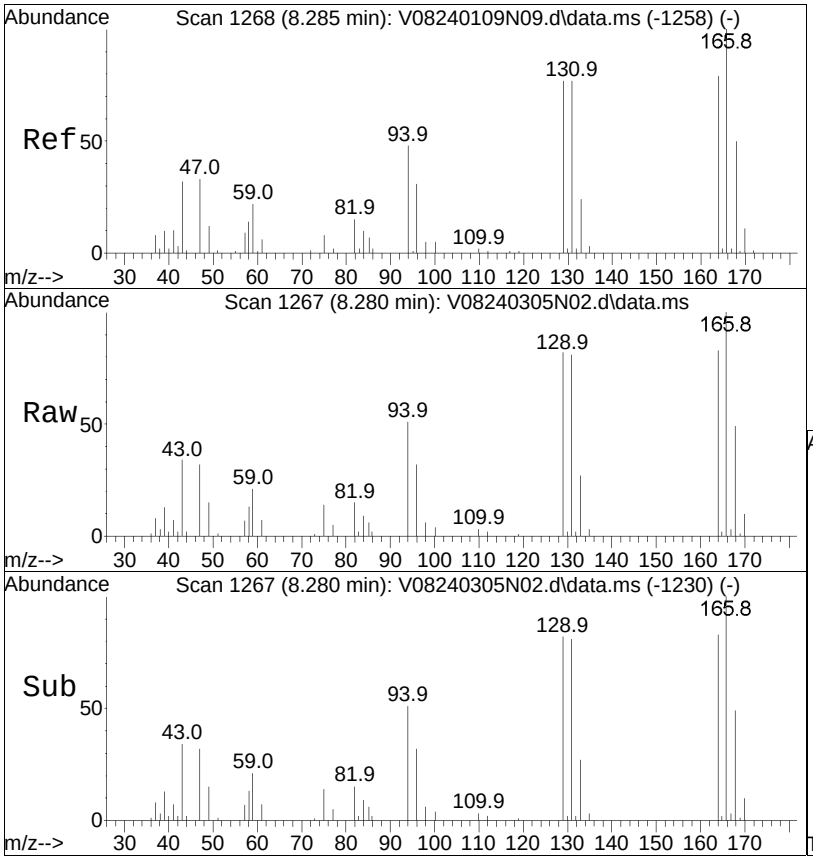


#62
4-Methyl-2-pentanone
Concen: 8.80 ug/L
RT: 8.264 min Scan# 1264
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 58 Resp: 6979

Ion	Ratio	Lower	Upper
58	100		
100	32.6	20.2	30.2#
43	279.6	196.6	295.0

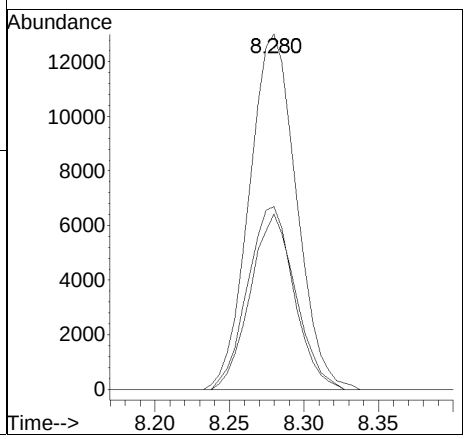


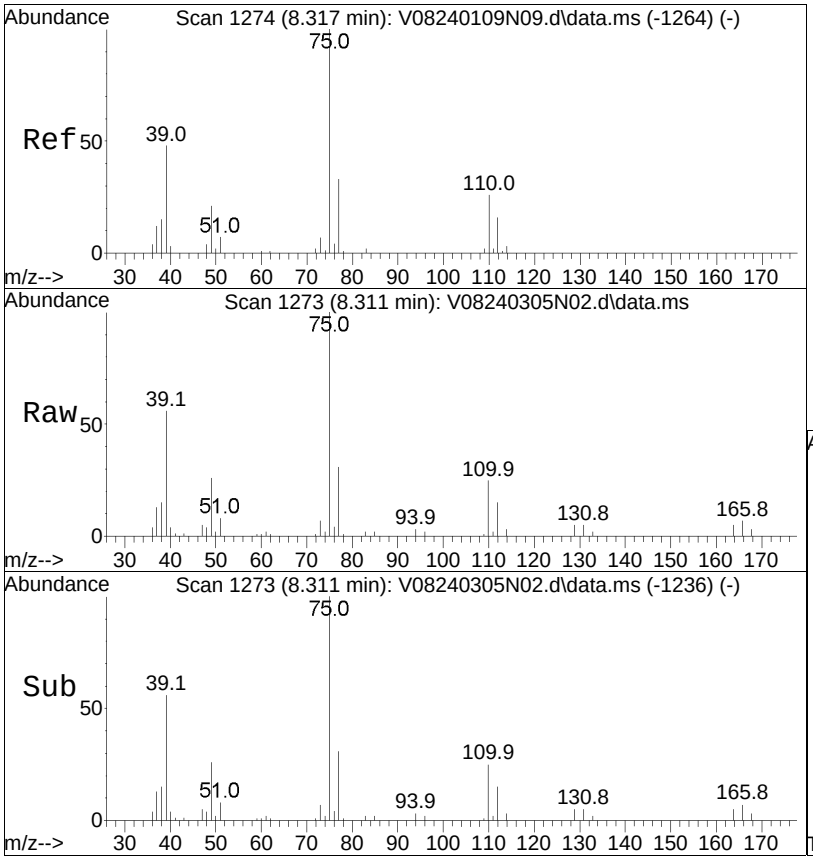


#63
Tetrachloroethene
Concen: 8.28 ug/L
RT: 8.280 min Scan# 1267
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:166 Resp: 28667

Ion	Ratio	Lower	Upper
166	100		
168	47.6	28.2	68.2
94	50.4	38.4	78.4

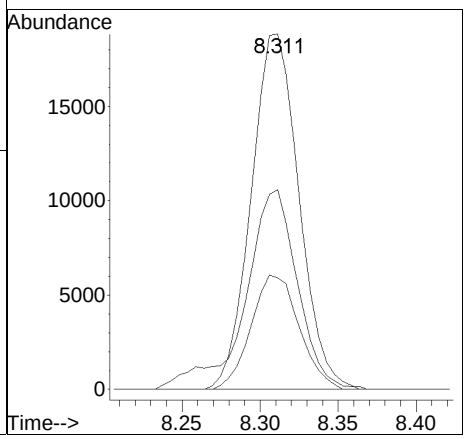


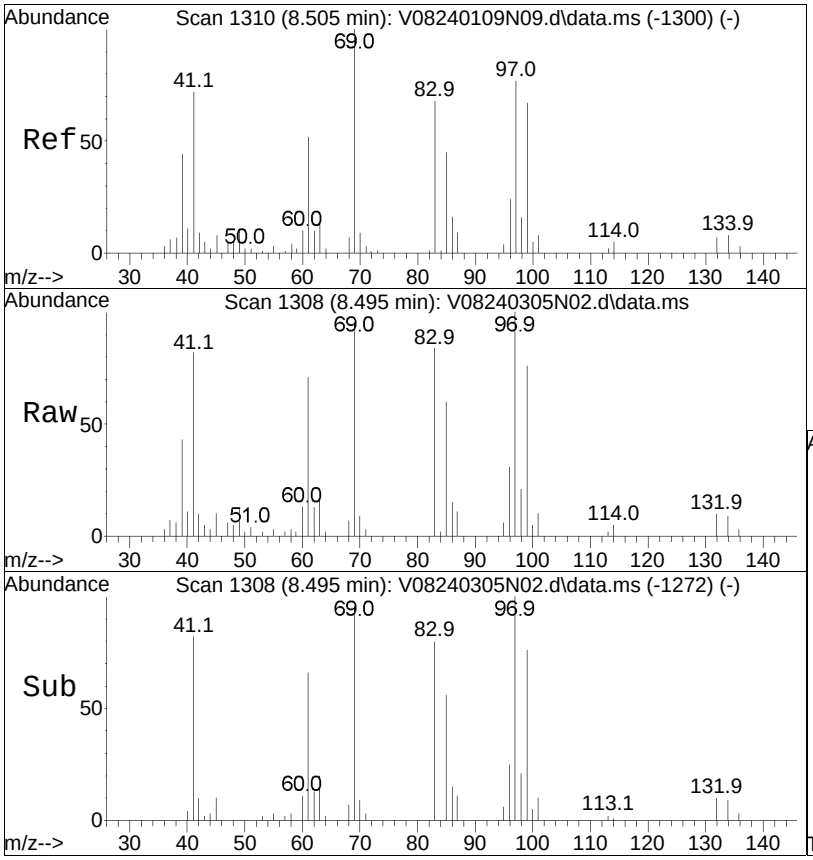


#65
trans-1,3-Dichloropropene
Concen: 8.98 ug/L
RT: 8.311 min Scan# 1273
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 75 Resp: 40160

Ion	Ratio	Lower	Upper
75	100		
77	32.4	12.4	52.4
39	61.5	42.8	82.8

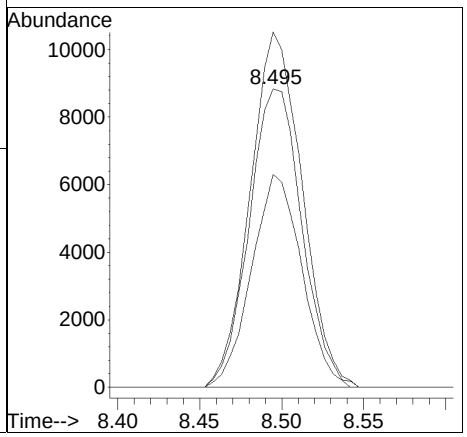


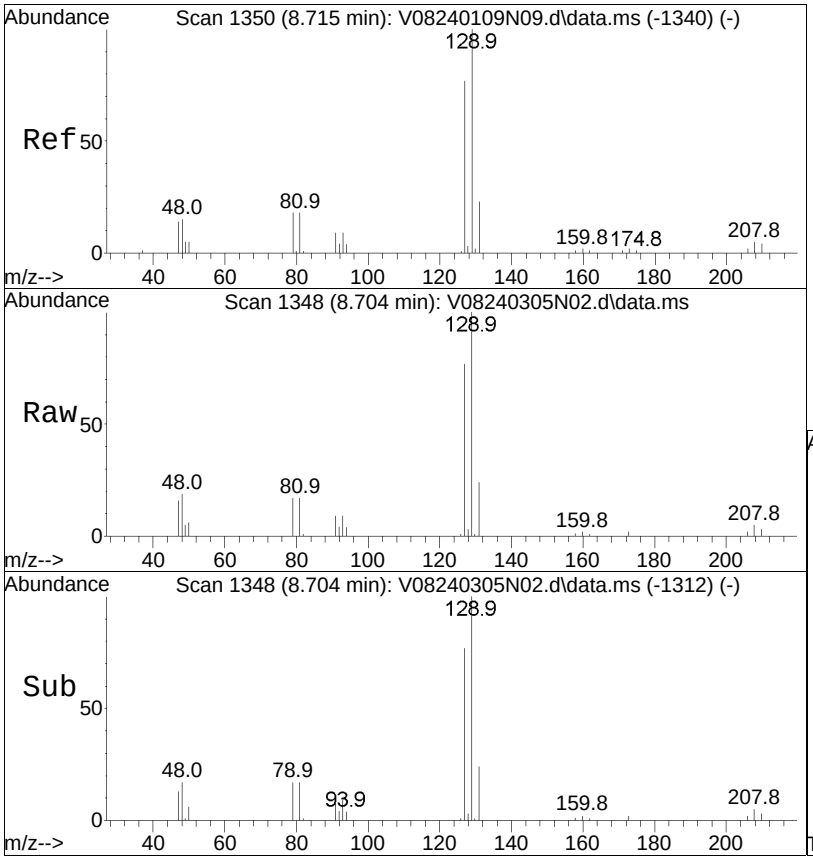


#68
1,1,2-Trichloroethane
Concen: 9.70 ug/L
RT: 8.495 min Scan# 1308
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 83 Resp: 19797

Ion	Ratio	Lower	Upper
83	100		
97	116.9	89.8	129.8
85	67.8	44.4	84.4

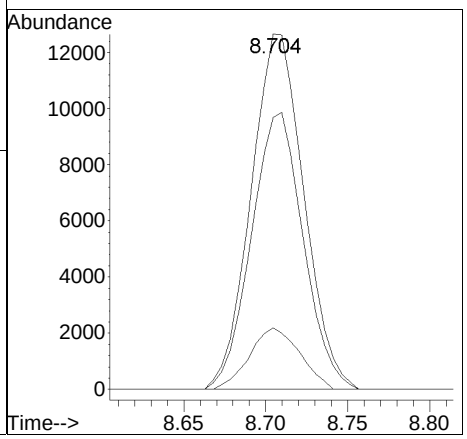


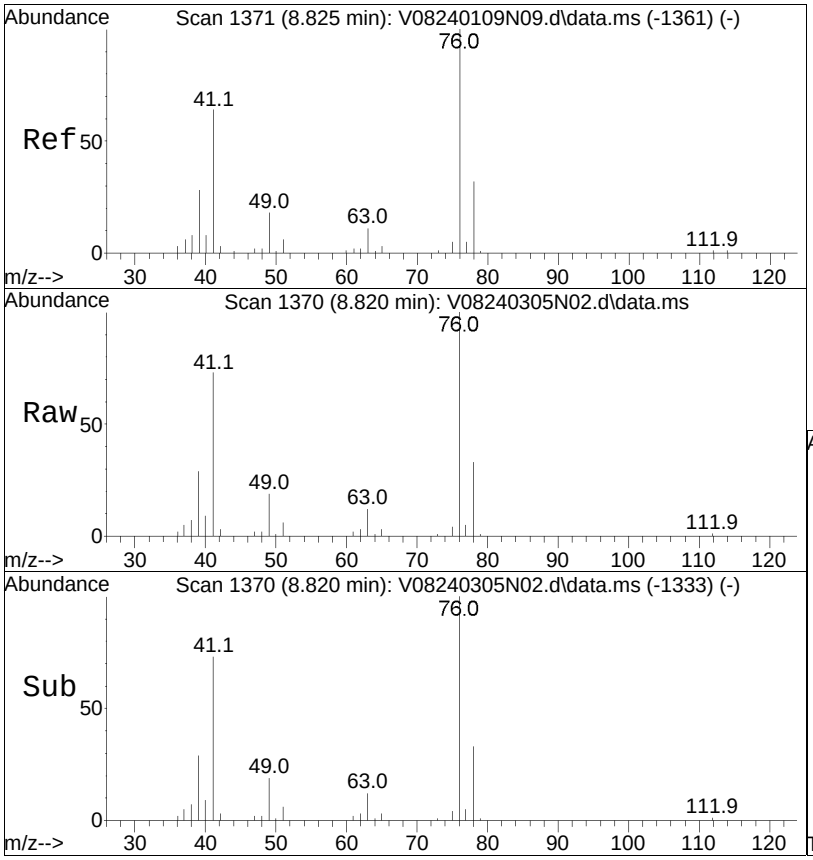


#69
Chlorodibromomethane
Concen: 8.74 ug/L
RT: 8.704 min Scan# 1348
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:129 Resp: 28395

Ion	Ratio	Lower	Upper
129	100		
81	16.5	2.9	42.9
127	76.4	57.8	97.8

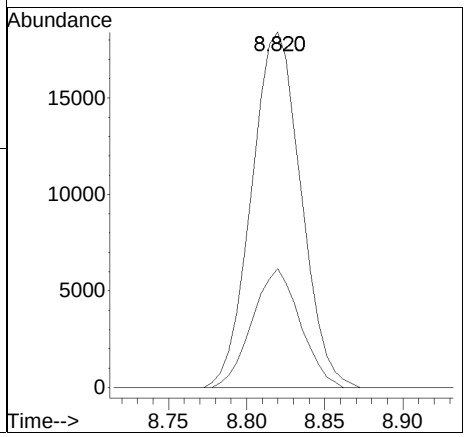


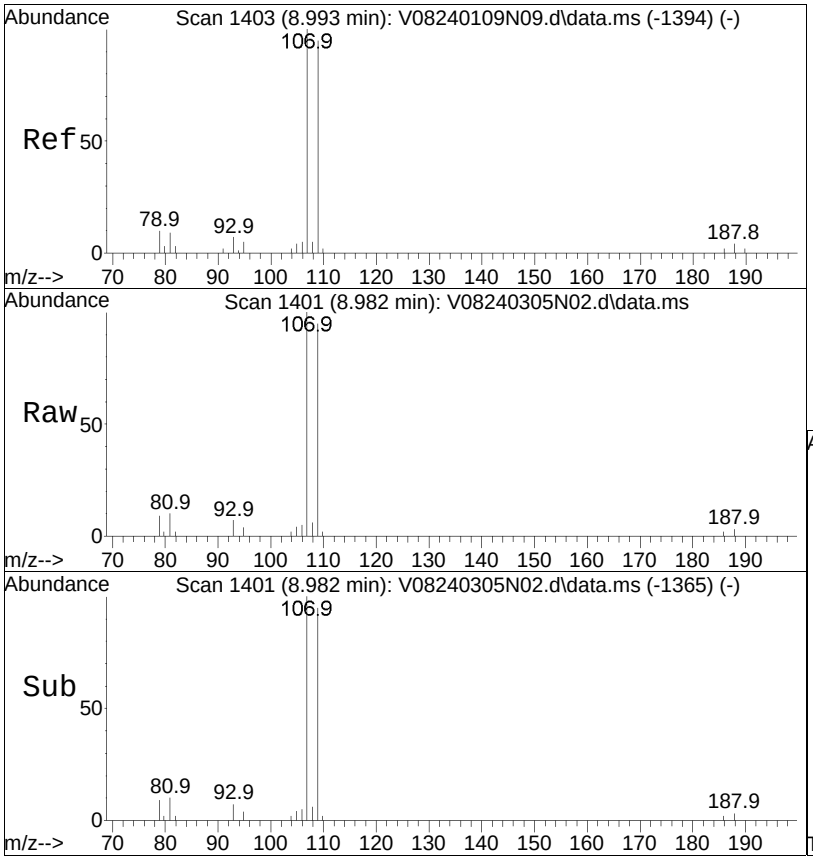


#70
1,3-Dichloropropane
Concen: 9.54 ug/L
RT: 8.820 min Scan# 1370
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 76 Resp: 40505

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.5	38.3

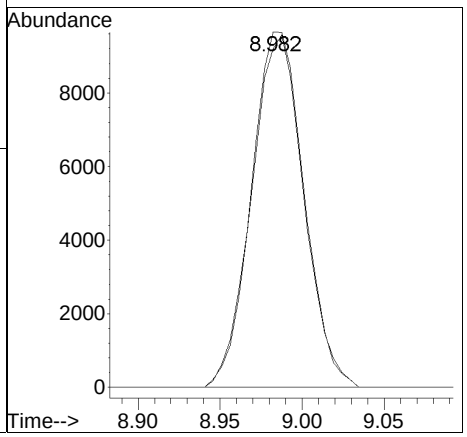


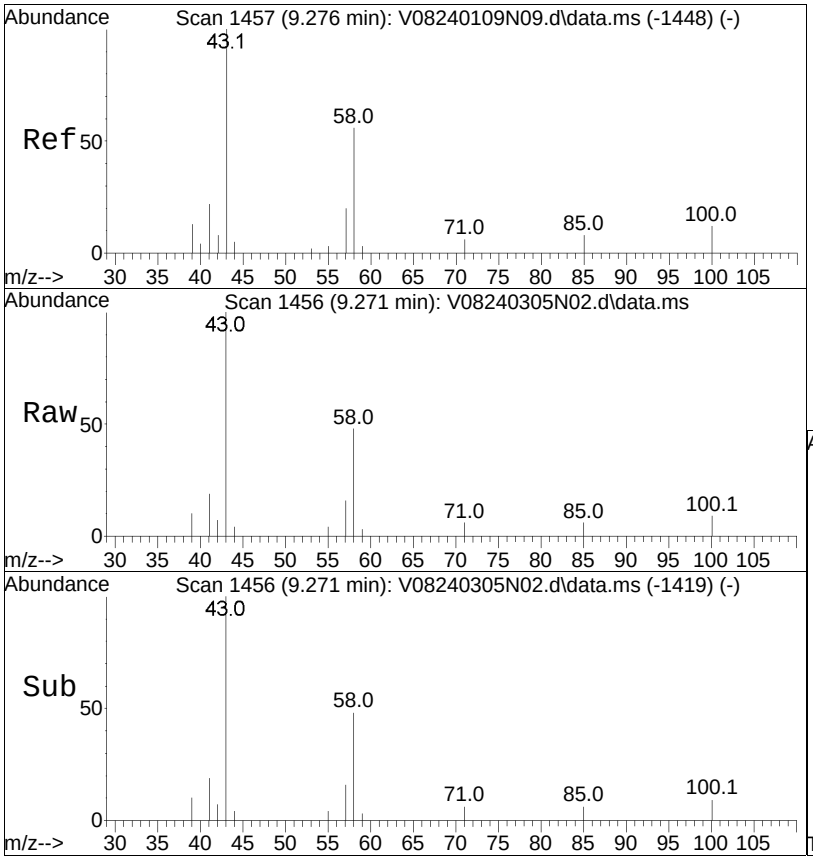


#71
1,2-Dibromoethane
Concen: 8.79 ug/L
RT: 8.982 min Scan# 1401
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:107 Resp: 21709

Ion	Ratio	Lower	Upper
107	100		
109	97.0	74.3	111.5

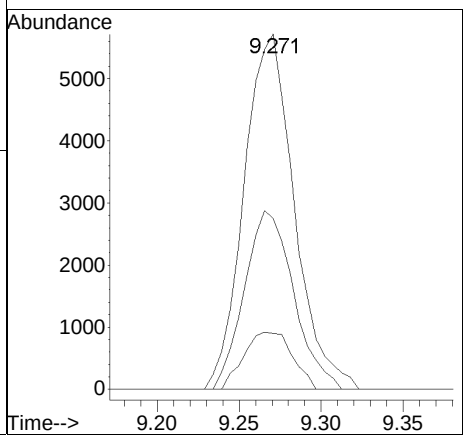


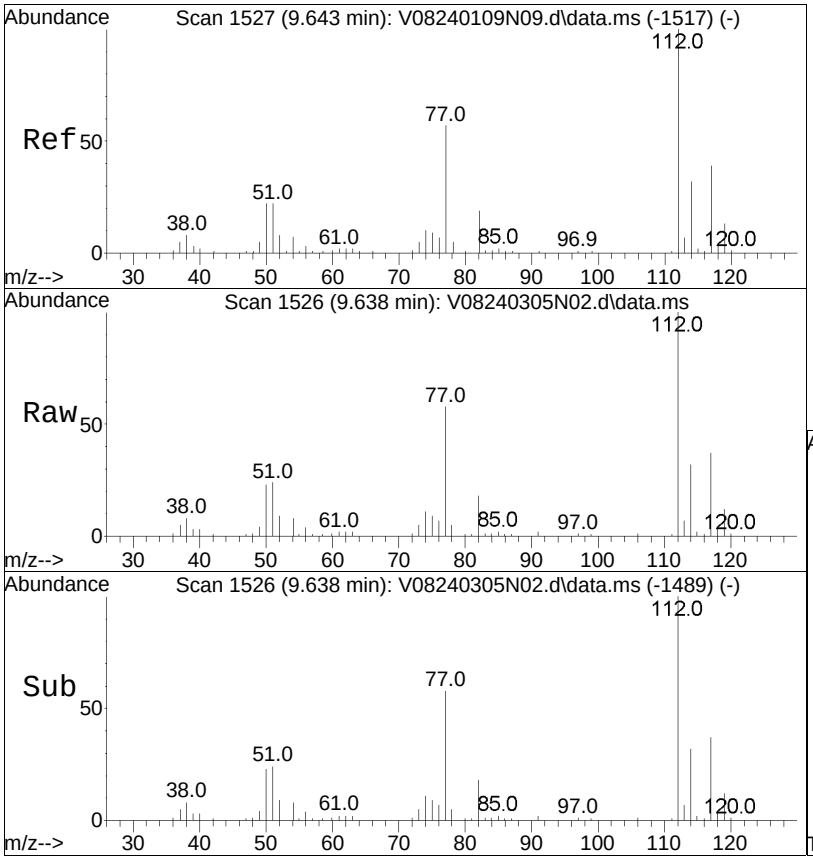


#72
2-Hexanone
Concen: 9.07 ug/L
RT: 9.271 min Scan# 1456
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 43 Resp: 12203

Ion	Ratio	Lower	Upper
43	100		
58	49.2	41.2	61.8
57	15.6	17.2	25.8#

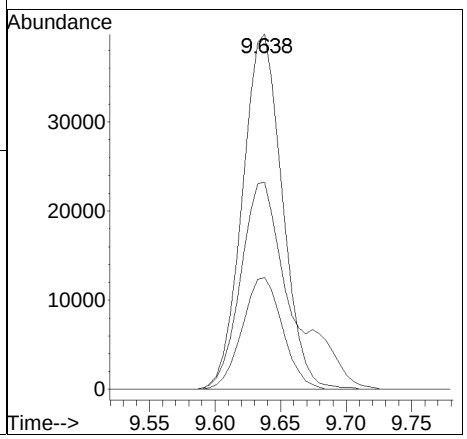


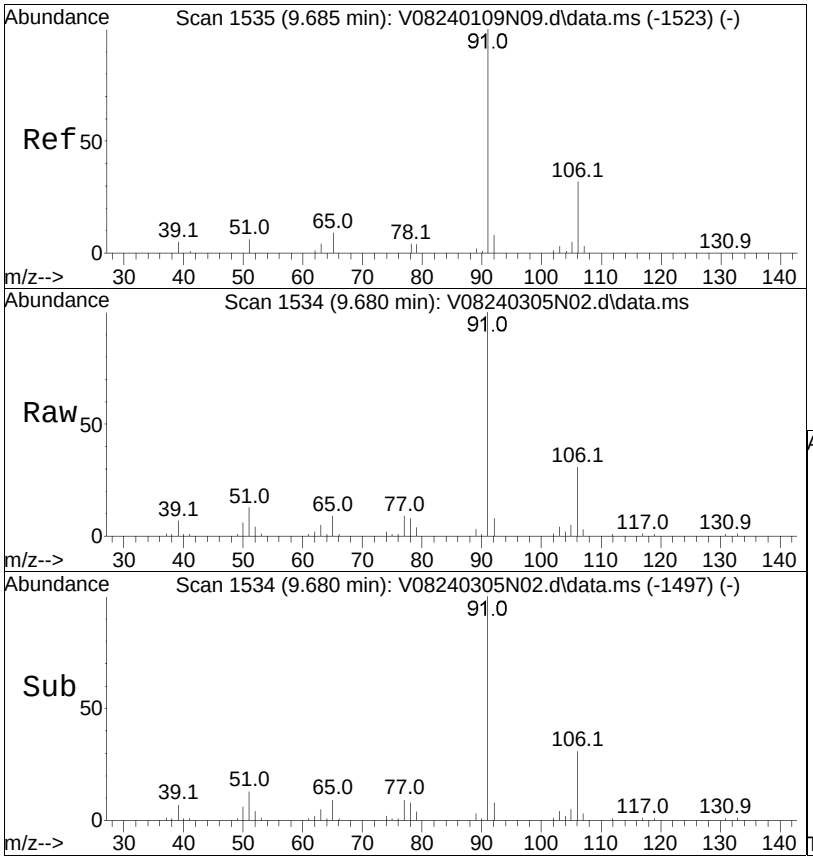


#73
Chlorobenzene
Concen: 8.90 ug/L
RT: 9.638 min Scan# 1526
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:112 Resp: 84414

Ion	Ratio	Lower	Upper
112	100		
77	74.1	55.4	83.0
114	31.8	25.4	38.2

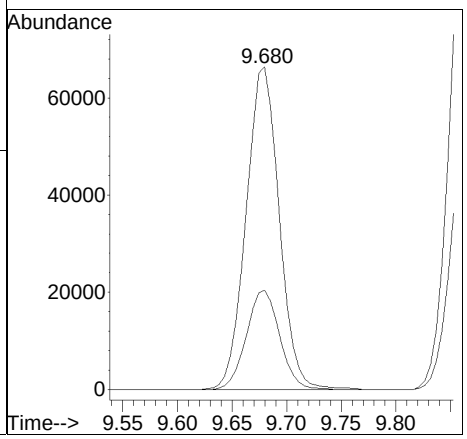


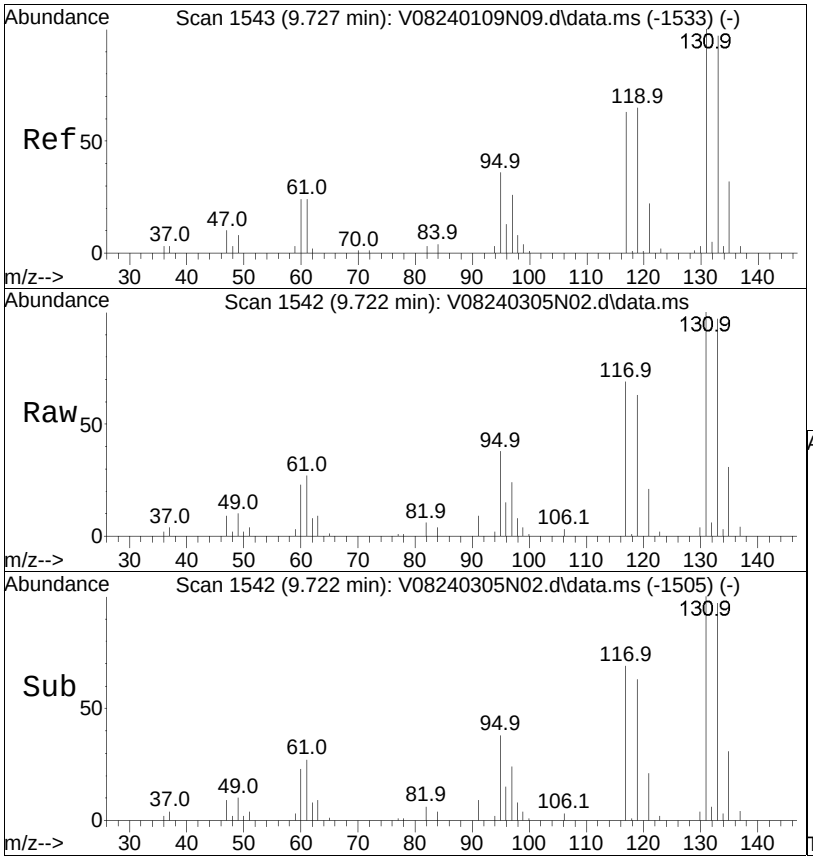


#74
Ethylbenzene
Concen: 8.91 ug/L
RT: 9.680 min Scan# 1534
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 91 Resp: 139927

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.3	36.5

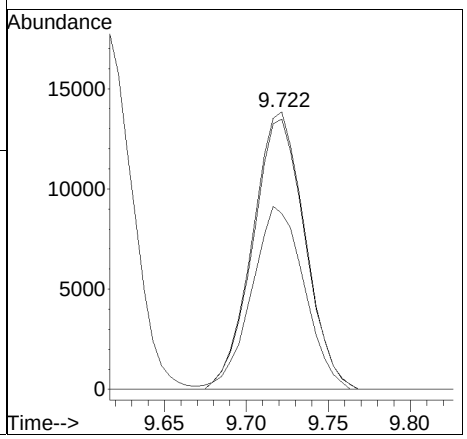


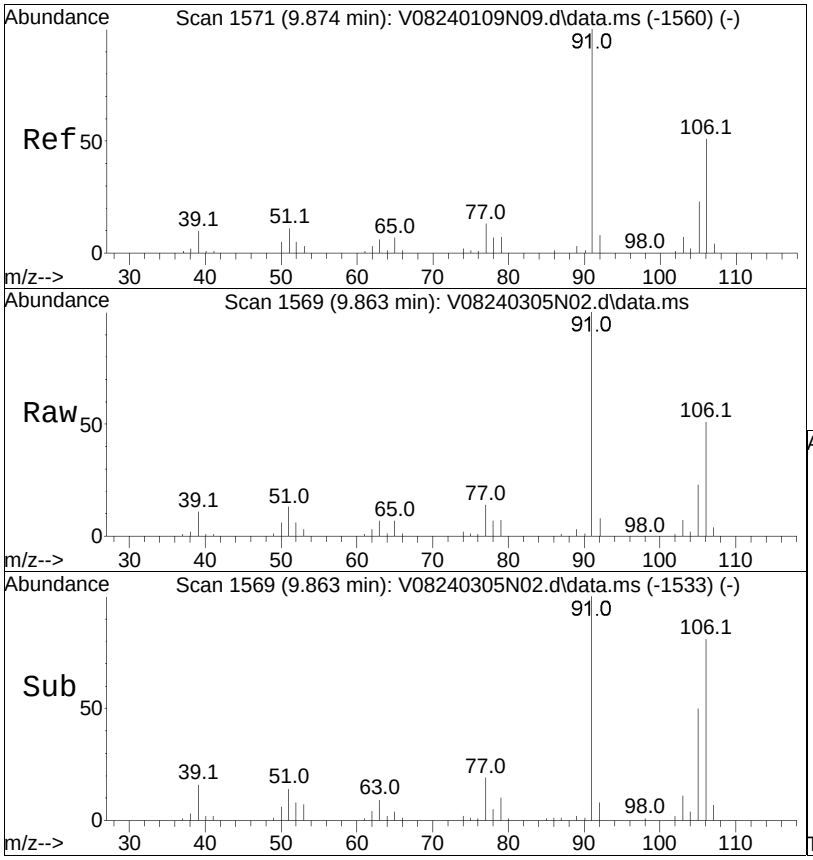


#75
1,1,1,2-Tetrachloroethane
Concen: 8.87 ug/L
RT: 9.722 min Scan# 1542
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:131 Resp: 30874

Ion	Ratio	Lower	Upper
131	100		
133	97.0	81.0	121.0
119	65.9	41.3	81.3

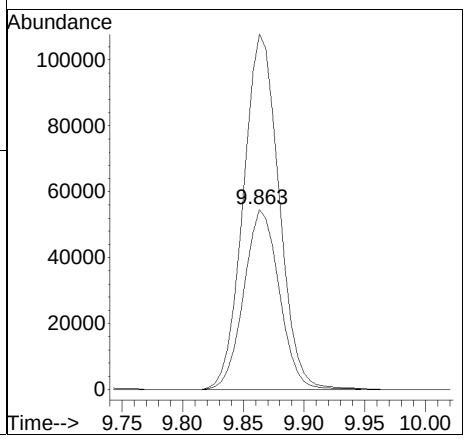


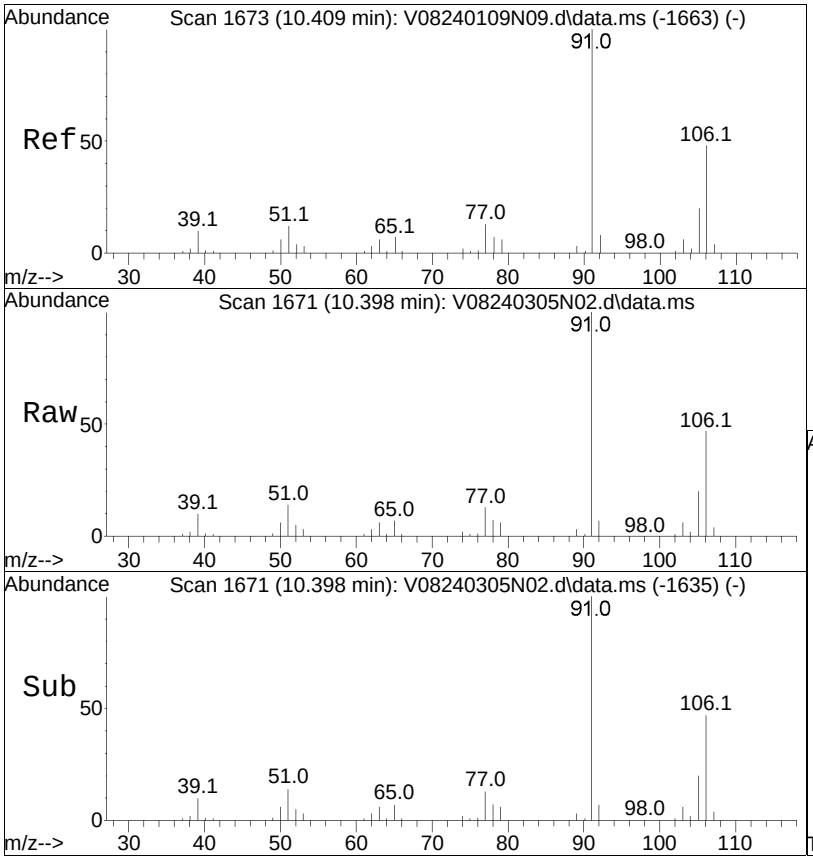


#76
p/m Xylene
Concen: 17.73 ug/L
RT: 9.863 min Scan# 1569
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:106 Resp: 110585

Ion	Ratio	Lower	Upper
106	100		
91	199.5	166.4	249.6

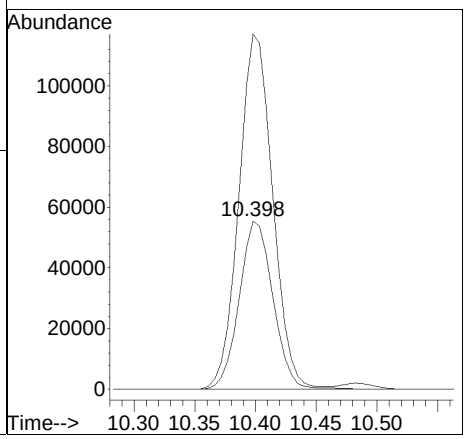


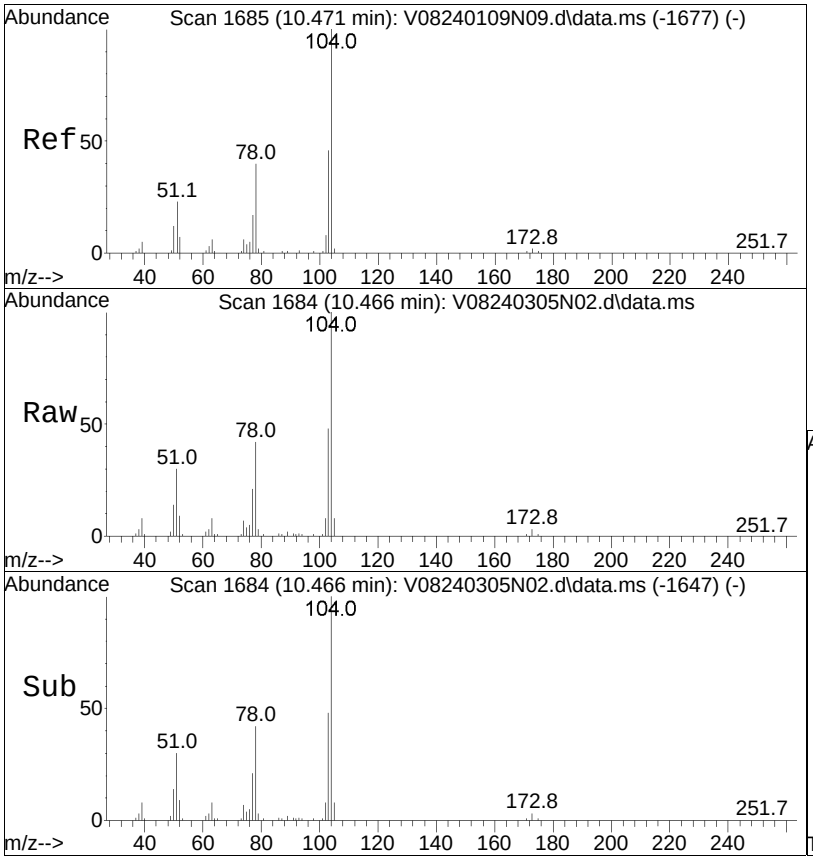


#77
o Xylene
Concen: 17.38 ug/L
RT: 10.398 min Scan# 1671
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:106 Resp: 107301

Ion	Ratio	Lower	Upper
106	100		
91	211.2	182.6	273.8

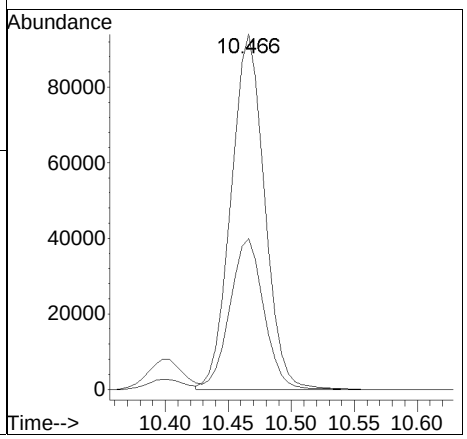


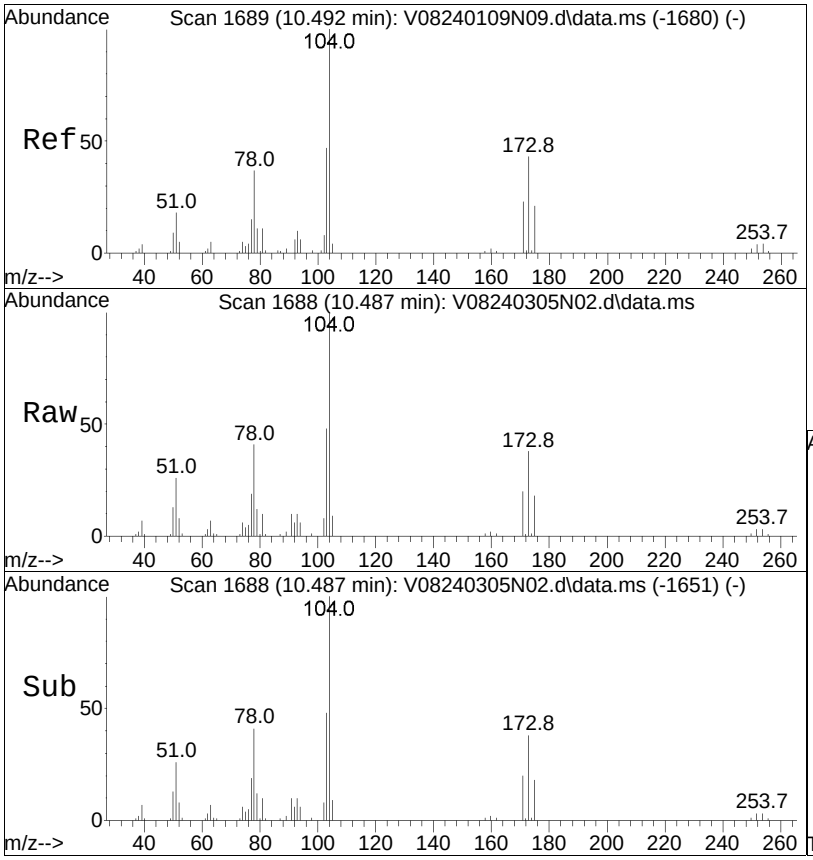


#78
Styrene
Concen: 17.00 ug/L
RT: 10.466 min Scan# 1684
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:104 Resp: 173753

Ion	Ratio	Lower	Upper
104	100		
78	42.9	39.8	59.6

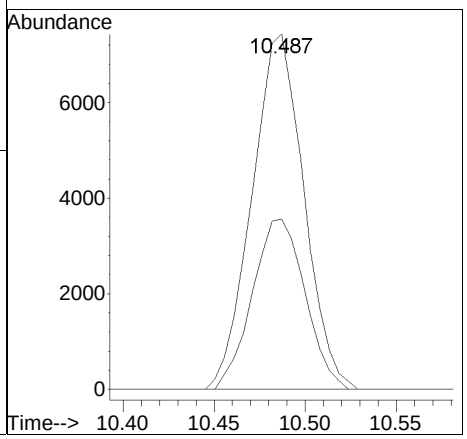


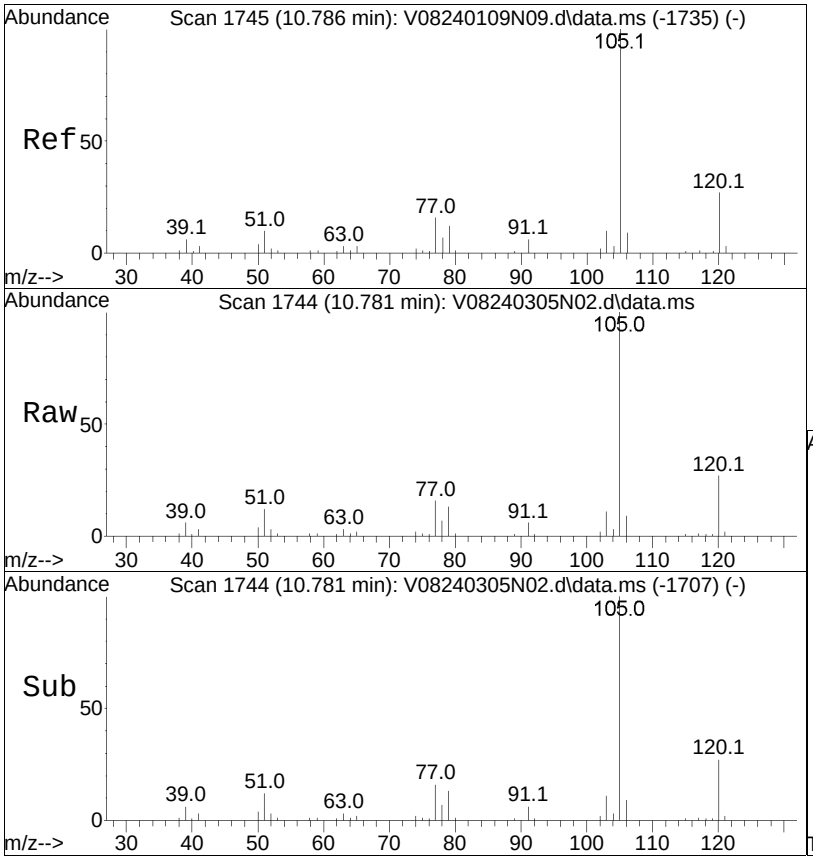


#80
Bromoform
Concen: 8.77 ug/L
RT: 10.487 min Scan# 1688
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:173 Resp: 14745

Ion	Ratio	Lower	Upper
173	100		
175	48.6	31.5	71.5

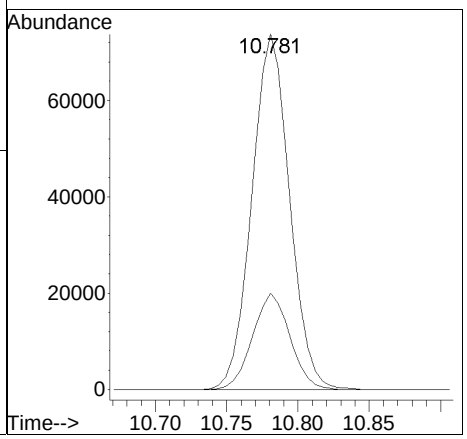


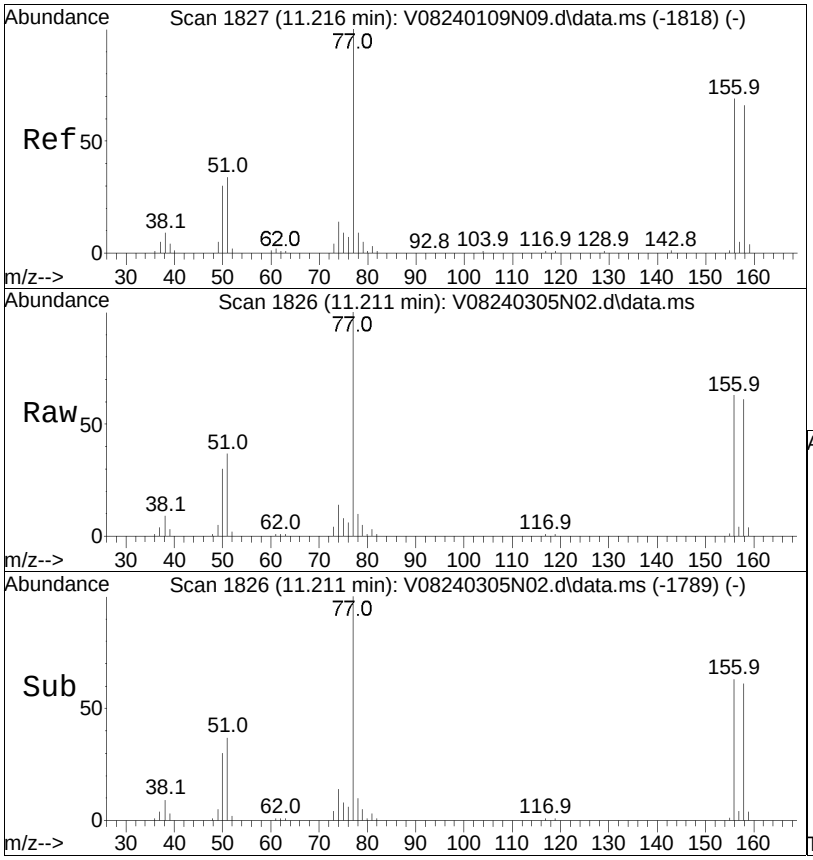


#82
Isopropylbenzene
Concen: 9.63 ug/L
RT: 10.781 min Scan# 1744
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:105 Resp: 135314

Ion	Ratio	Lower	Upper
105	100		
120	26.8	4.8	44.8

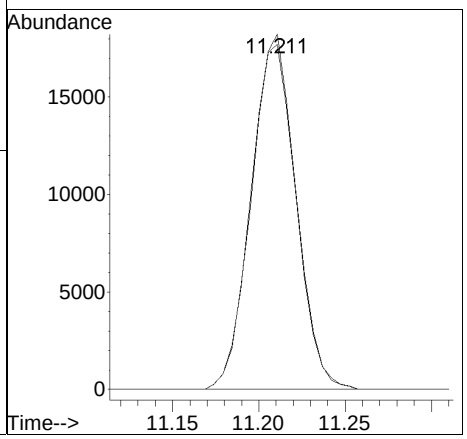


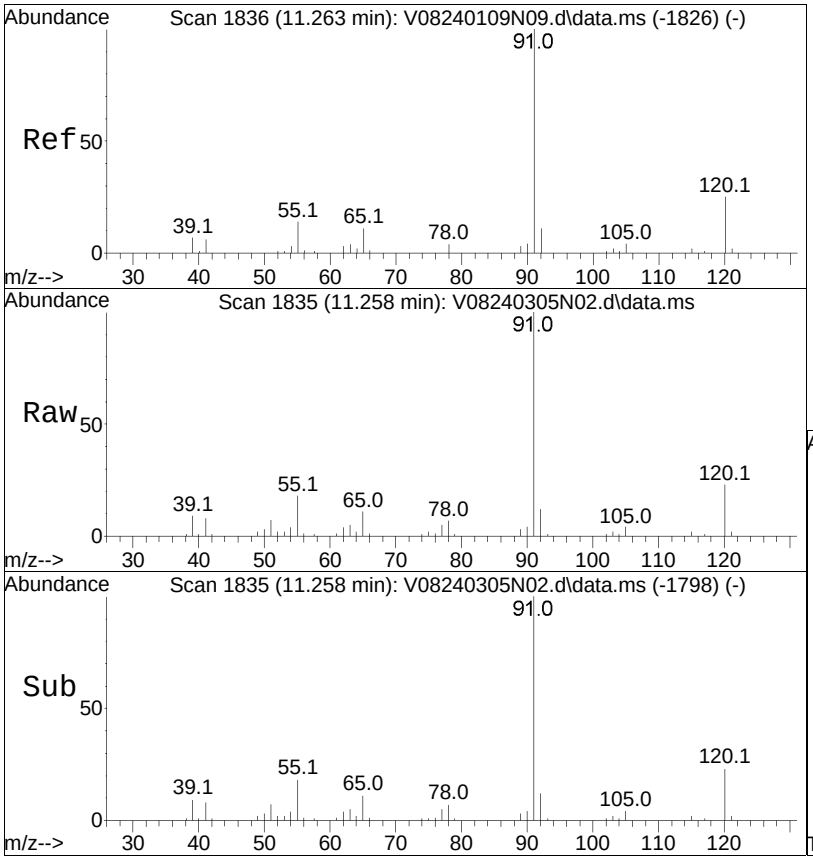


#84
Bromobenzene
Concen: 9.22 ug/L
RT: 11.211 min Scan# 1826
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:156 Resp: 32797

Ion	Ratio	Lower	Upper
156	100		
158	98.1	75.9	113.9

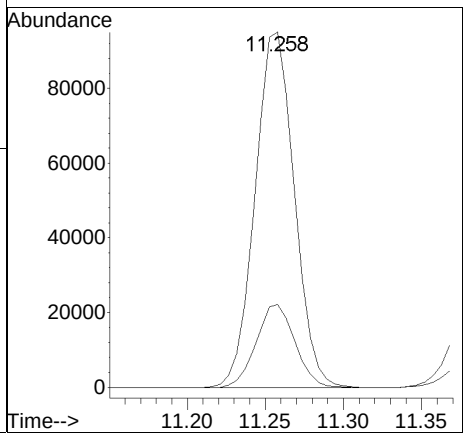


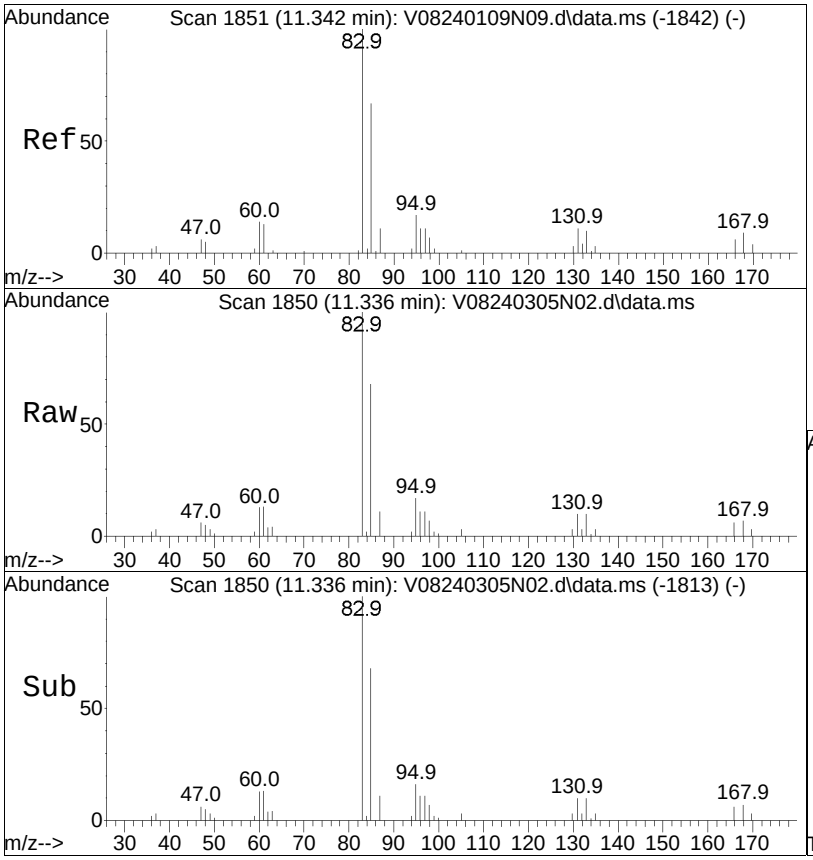


#85
n-Propylbenzene
Concen: 10.07 ug/L
RT: 11.258 min Scan# 1835
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 91 Resp: 166000

Ion	Ratio	Lower	Upper
91	100		
120	22.9	17.0	25.6

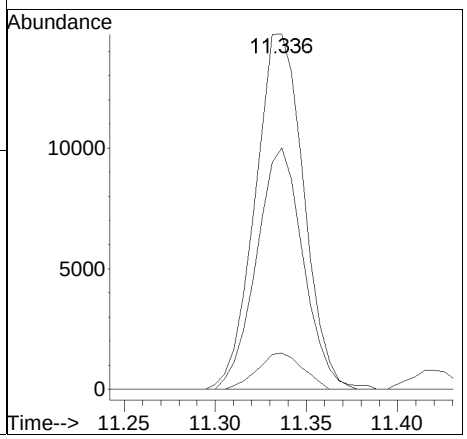


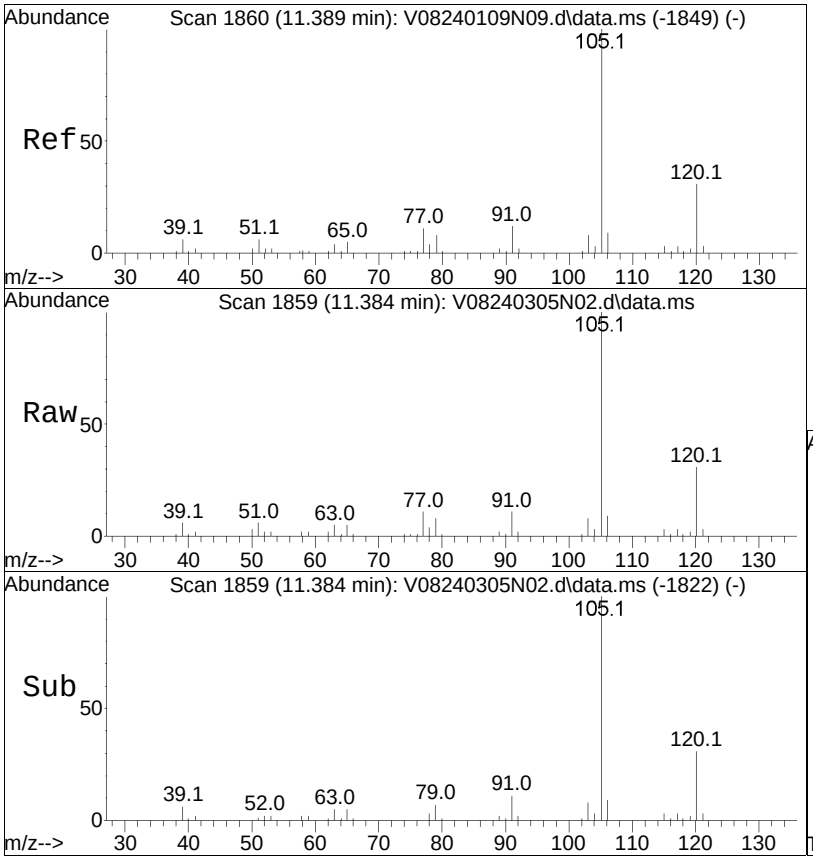


#87
1,1,2,2-Tetrachloroethane
Concen: 10.76 ug/L
RT: 11.336 min Scan# 1850
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 83 Resp: 27248

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	30.4
85	66.0	45.4	85.4

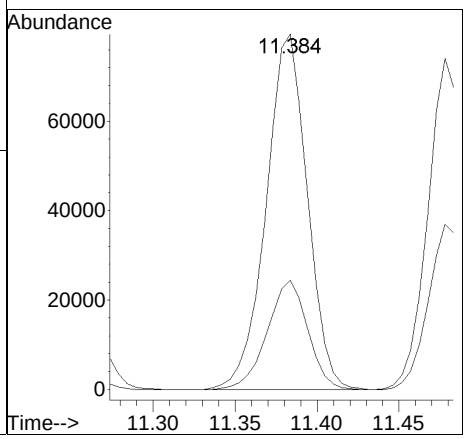


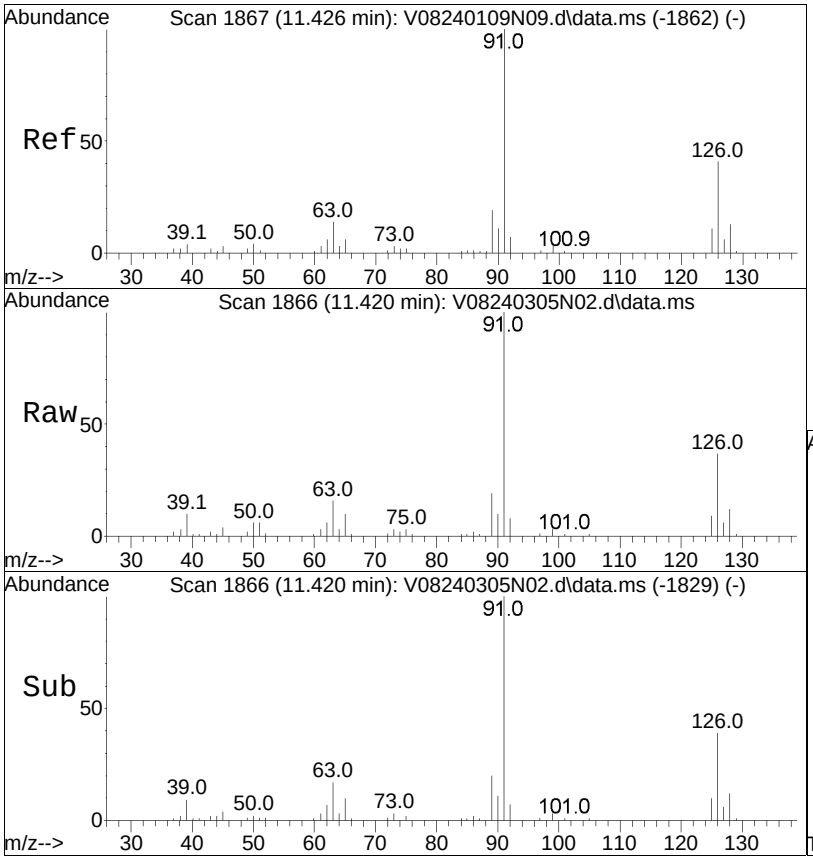


#88
4-Ethyltoluene
Concen: 9.82 ug/L
RT: 11.384 min Scan# 1859
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:105 Resp: 138796

Ion	Ratio	Lower	Upper
105	100		
120	30.1	18.1	37.7

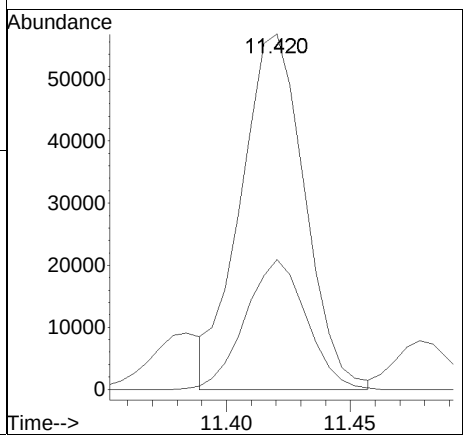


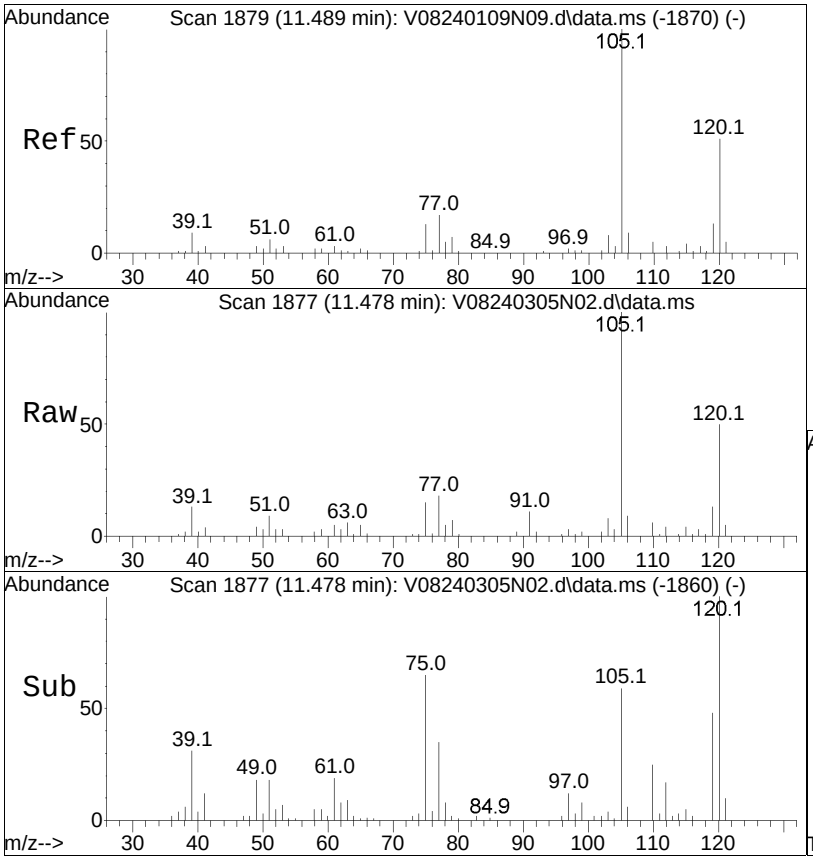


#89
2-Chlorotoluene
Concen: 10.31 ug/L M6
RT: 11.420 min Scan# 1866
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 91 Resp: 102982

Ion	Ratio	Lower	Upper
91	100		
126	34.8	21.5	32.3#

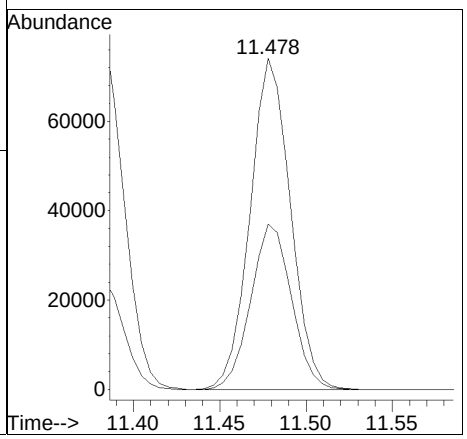


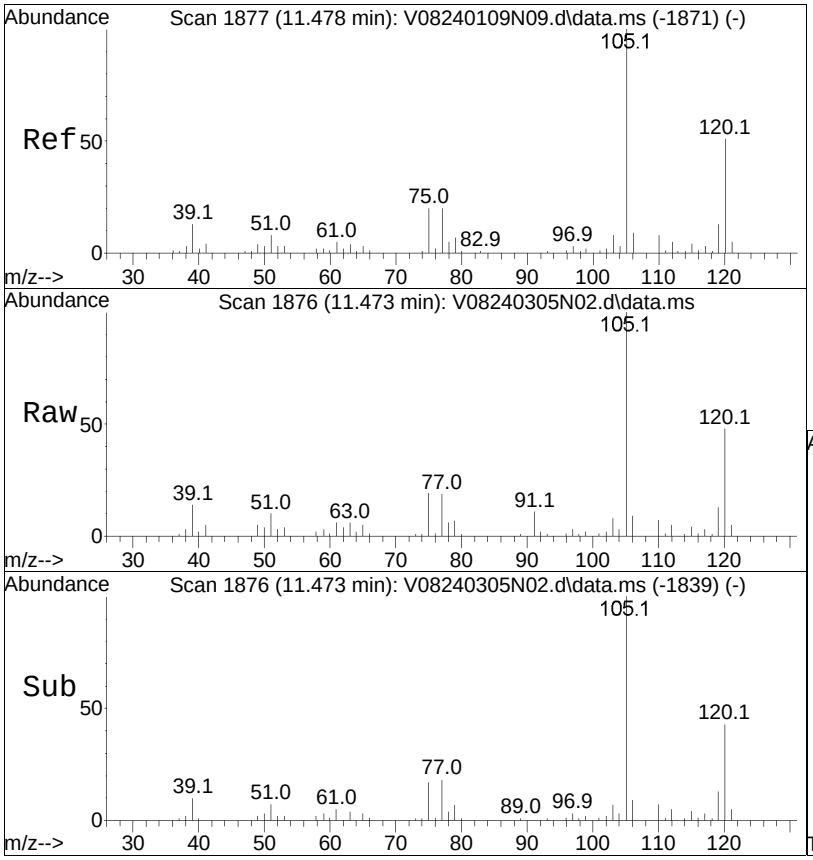


#90
1,3,5-Trimethylbenzene
Concen: 9.89 ug/L
RT: 11.478 min Scan# 1877
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:105 Resp: 120390

Ion	Ratio	Lower	Upper
105	100		
120	50.3	34.8	52.2

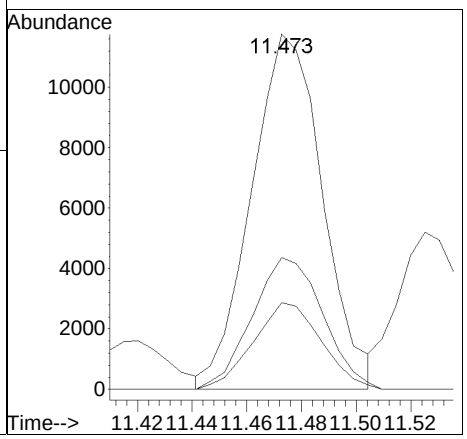


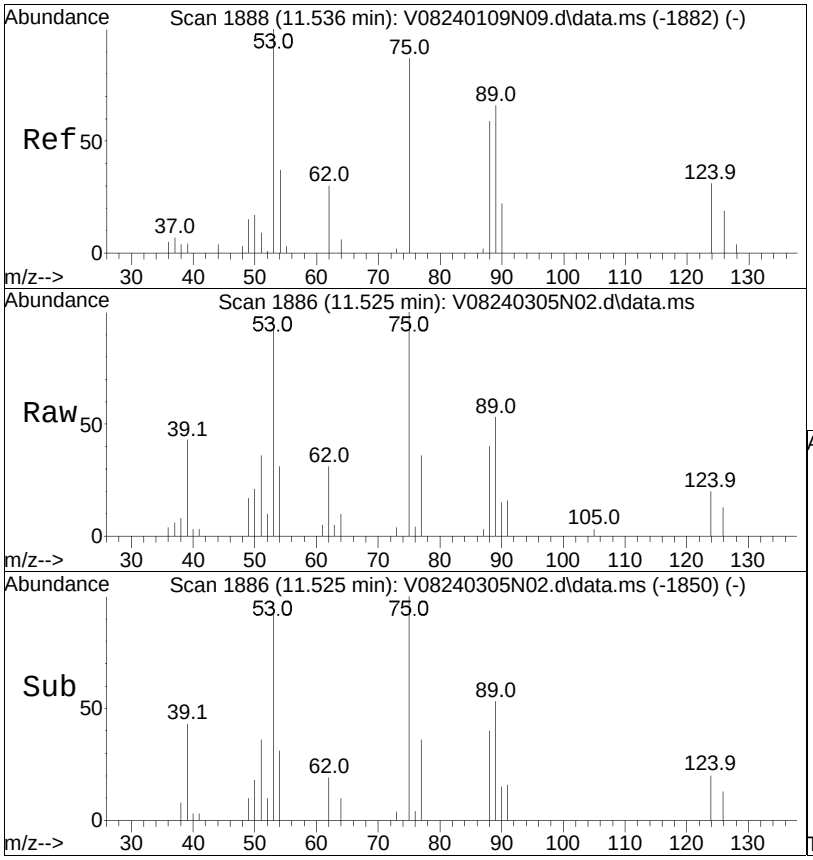


#91
1,2,3-Trichloropropane
Concen: 10.31 ug/L
RT: 11.473 min Scan# 1876
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 75 Resp: 21268

Ion	Ratio	Lower	Upper
75	100		
110	36.9	25.4	52.8
112	23.4	15.6	32.4

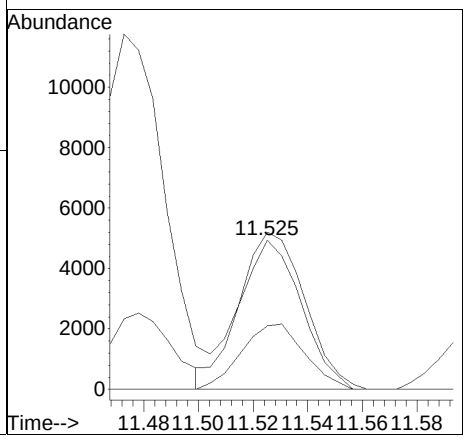


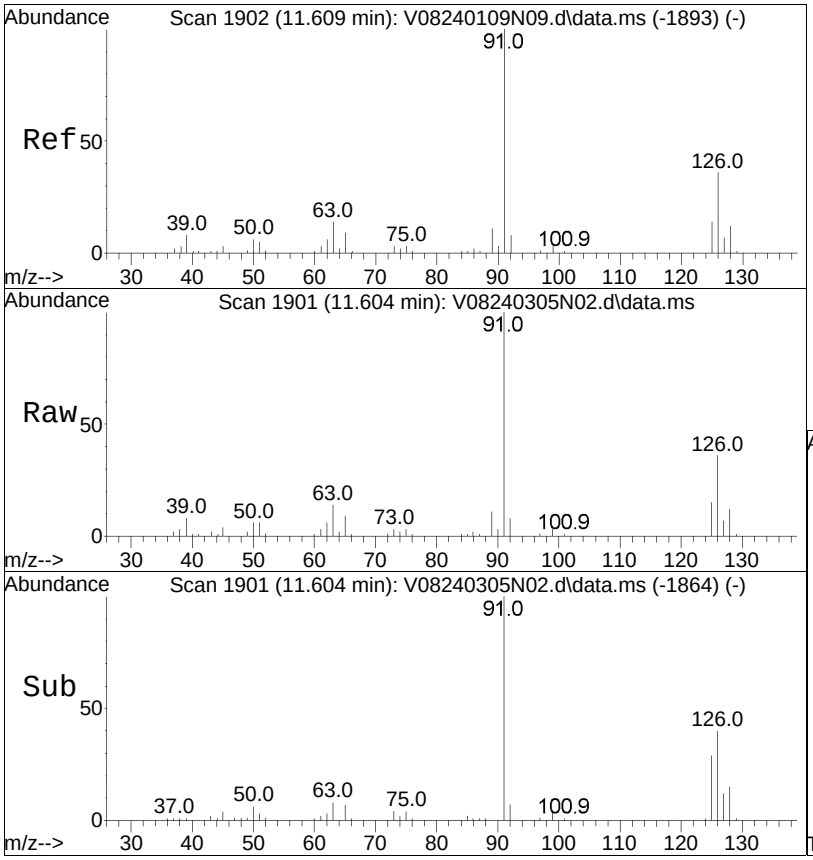


#92
trans-1,4-Dichloro-2-butene
Concen: 10.89 ug/L
RT: 11.525 min Scan# 1886
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 53 Resp: 7833

Ion	Ratio	Lower	Upper
53	100		
88	44.5	39.6	59.4
75	109.2	70.2	105.4#

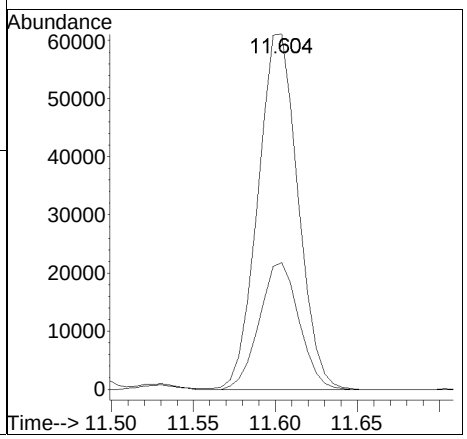


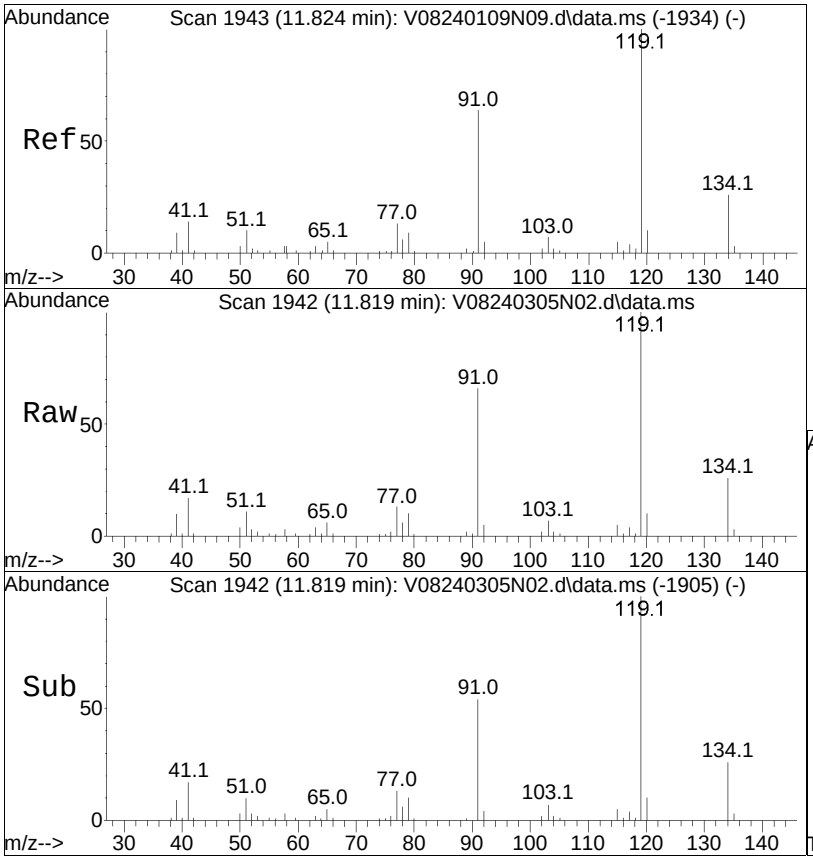


#93
4-Chlorotoluene
Concen: 10.05 ug/L
RT: 11.604 min Scan# 1901
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 91 Resp: 103975

Ion	Ratio	Lower	Upper
91	100		
126	35.3	24.6	36.8

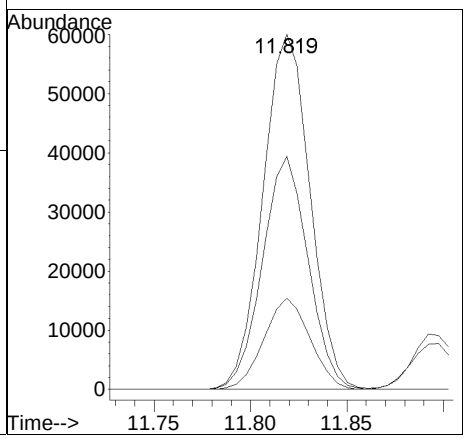


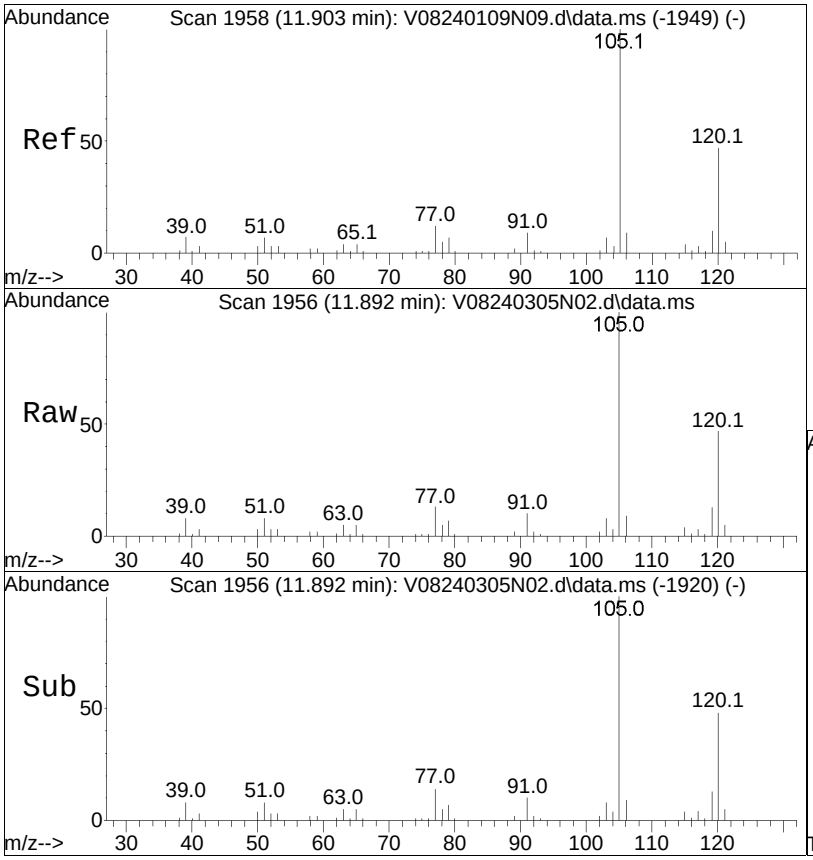


#94
tert-Butylbenzene
Concen: 9.69 ug/L
RT: 11.819 min Scan# 1942
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:119 Resp: 101989

Ion	Ratio	Lower	Upper
119	100		
91	63.7	51.4	77.2
134	25.2	18.3	27.5

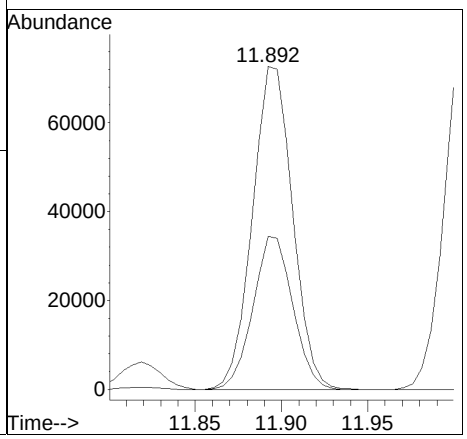


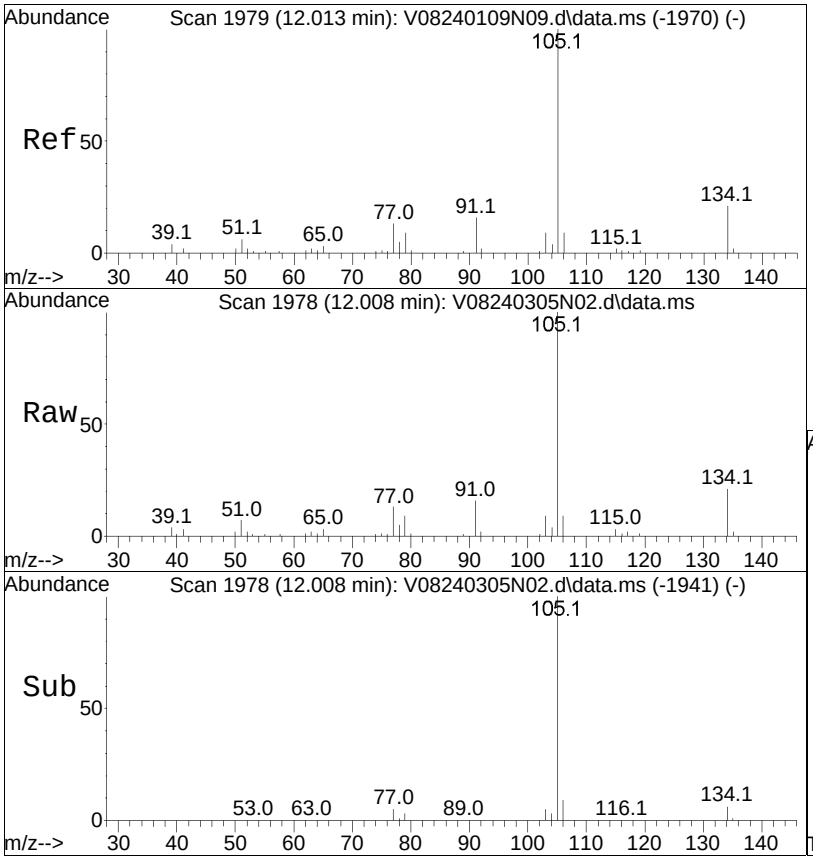


#97
1,2,4-Trimethylbenzene
Concen: 9.81 ug/L
RT: 11.892 min Scan# 1956
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:105 Resp: 117536

Ion	Ratio	Lower	Upper
105	100		
120	47.0	33.4	50.0

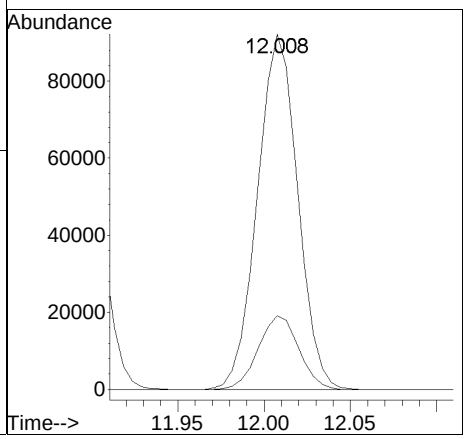


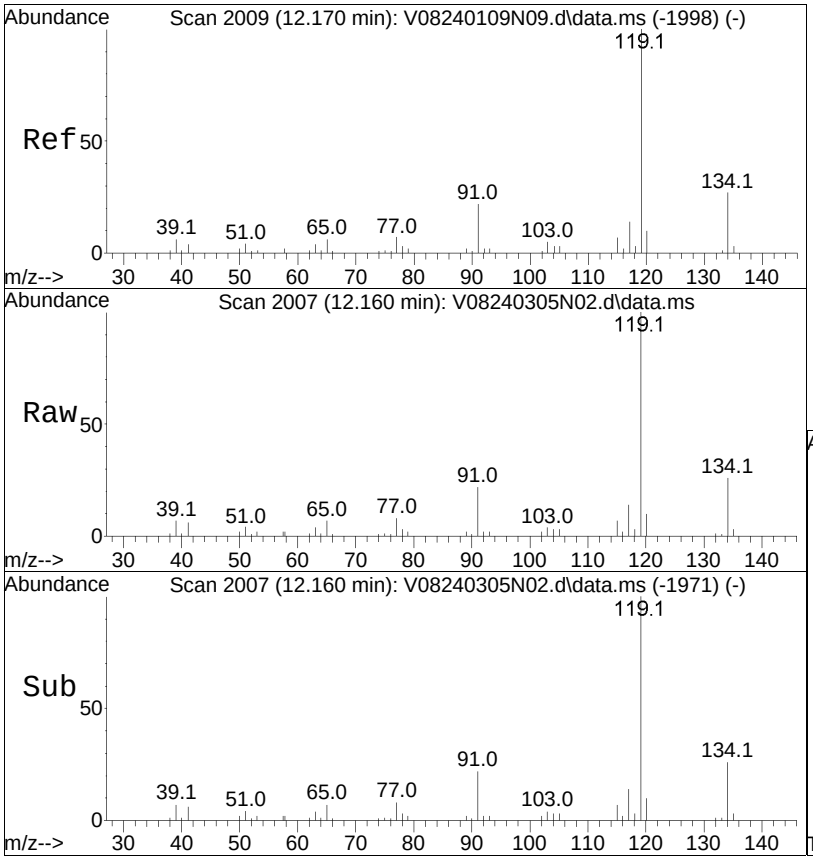


#98
sec-Butylbenzene
Concen: 9.76 ug/L
RT: 12.008 min Scan# 1978
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:105 Resp: 149412

Ion	Ratio	Lower	Upper
105	100		
134	20.8	12.5	26.1

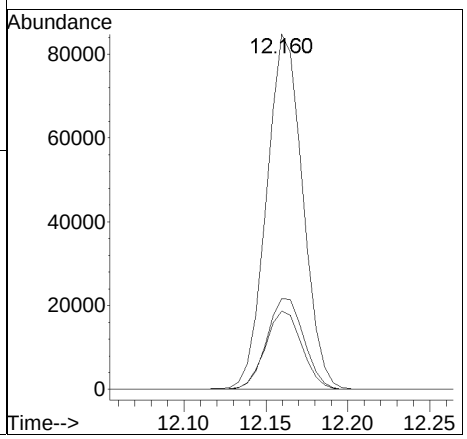


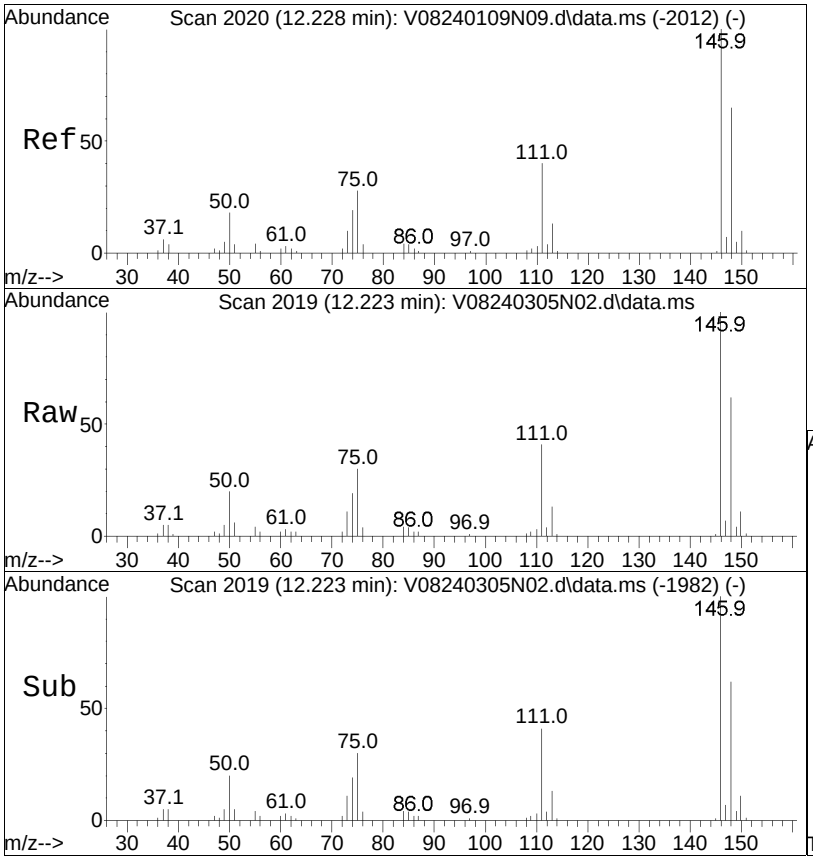


#99
p-Isopropyltoluene
Concen: 9.58 ug/L
RT: 12.160 min Scan# 2007
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:119 Resp: 130021

Ion	Ratio	Lower	Upper
119	100		
134	26.3	16.1	33.3
91	22.3	17.3	35.9

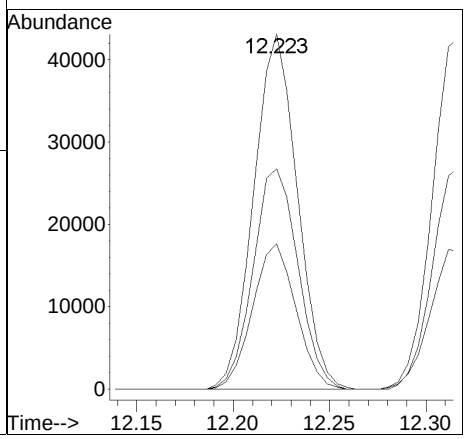


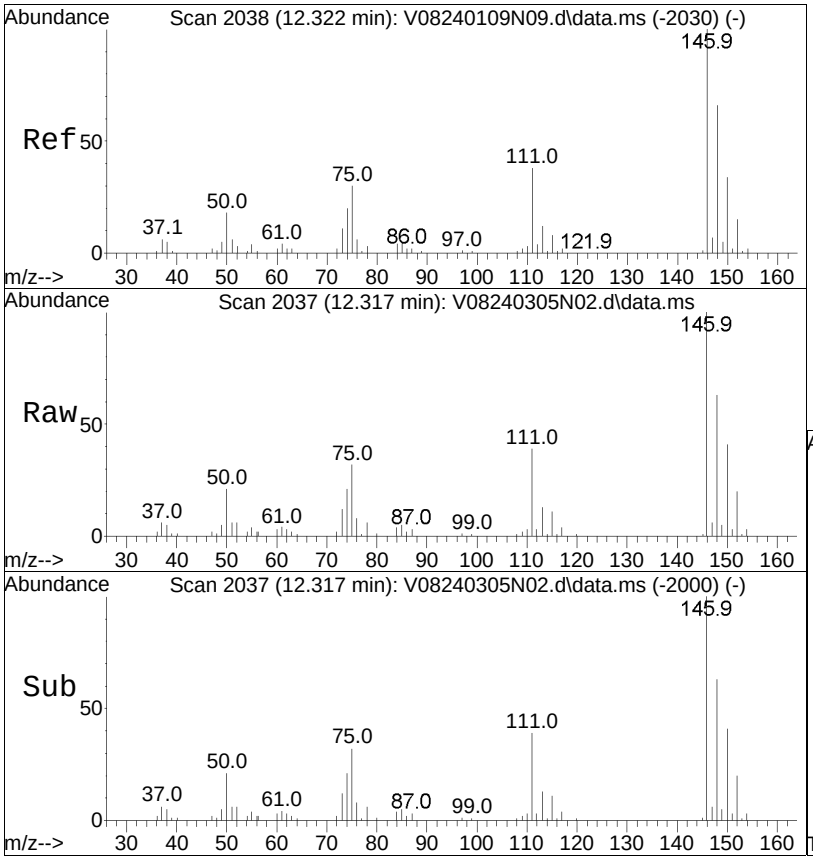


#100
1,3-Dichlorobenzene
Concen: 9.57 ug/L
RT: 12.223 min Scan# 2019
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:146 Resp: 67908

Ion	Ratio	Lower	Upper
146	100		
111	40.9	27.5	57.1
148	64.0	41.9	86.9

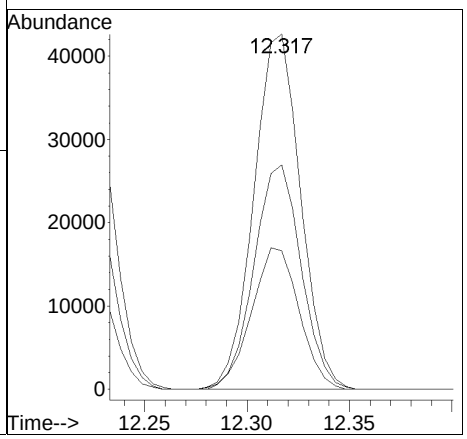


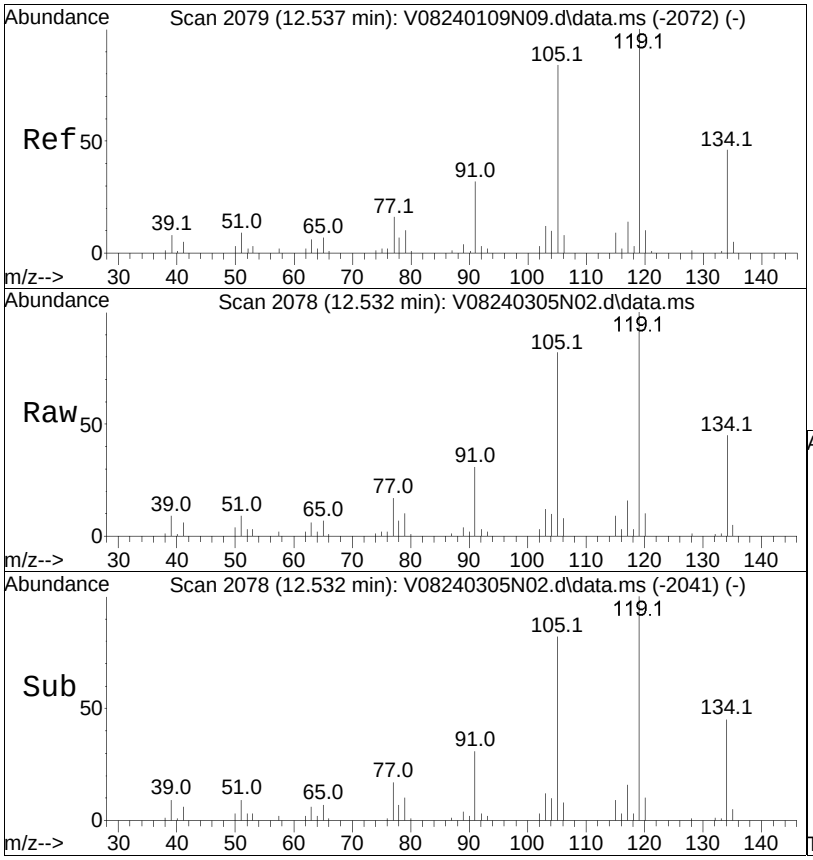


#101
1,4-Dichlorobenzene
Concen: 9.46 ug/L
RT: 12.317 min Scan# 2037
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:146 Resp: 67830

Ion	Ratio	Lower	Upper
146	100		
111	40.7	32.3	48.5
148	63.7	49.9	74.9

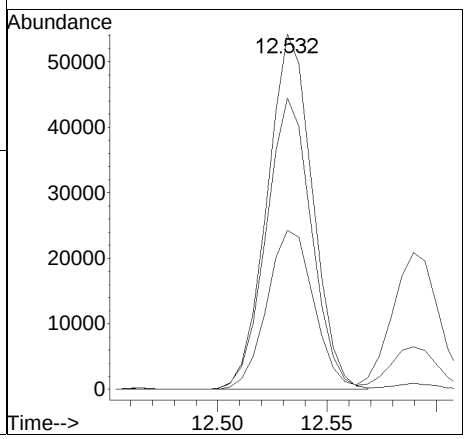


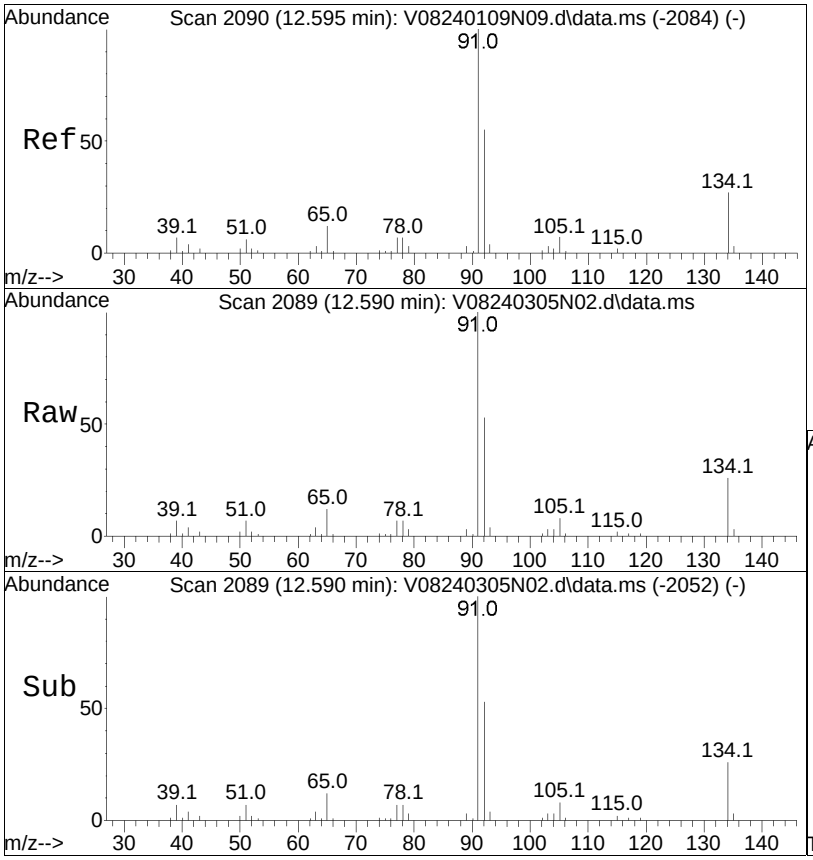


#102
p-Diethylbenzene
Concen: 9.42 ug/L
RT: 12.532 min Scan# 2078
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:119 Resp: 78001

Ion	Ratio	Lower	Upper
119	100		
105	82.3	59.5	123.7
134	46.4	30.2	62.6

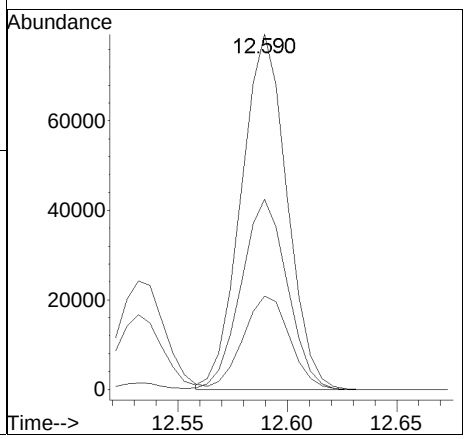


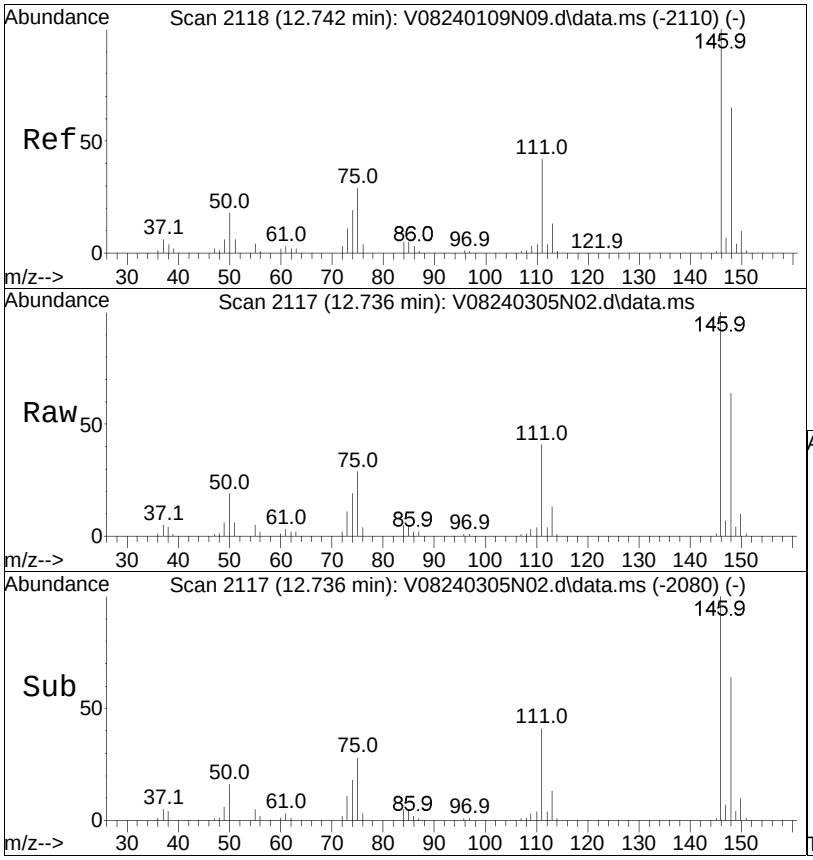


#103
n-Butylbenzene
Concen: 10.22 ug/L
RT: 12.590 min Scan# 2089
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion: 91 Resp: 115651

Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.0	64.4
134	26.7	19.6	29.4

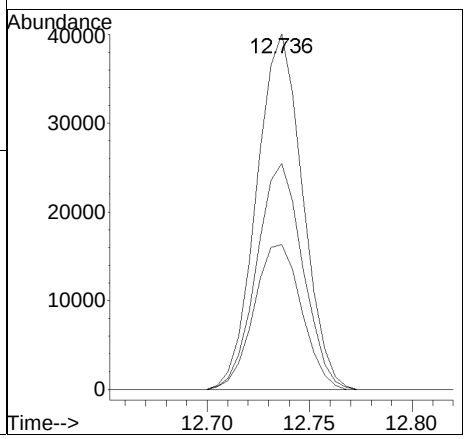


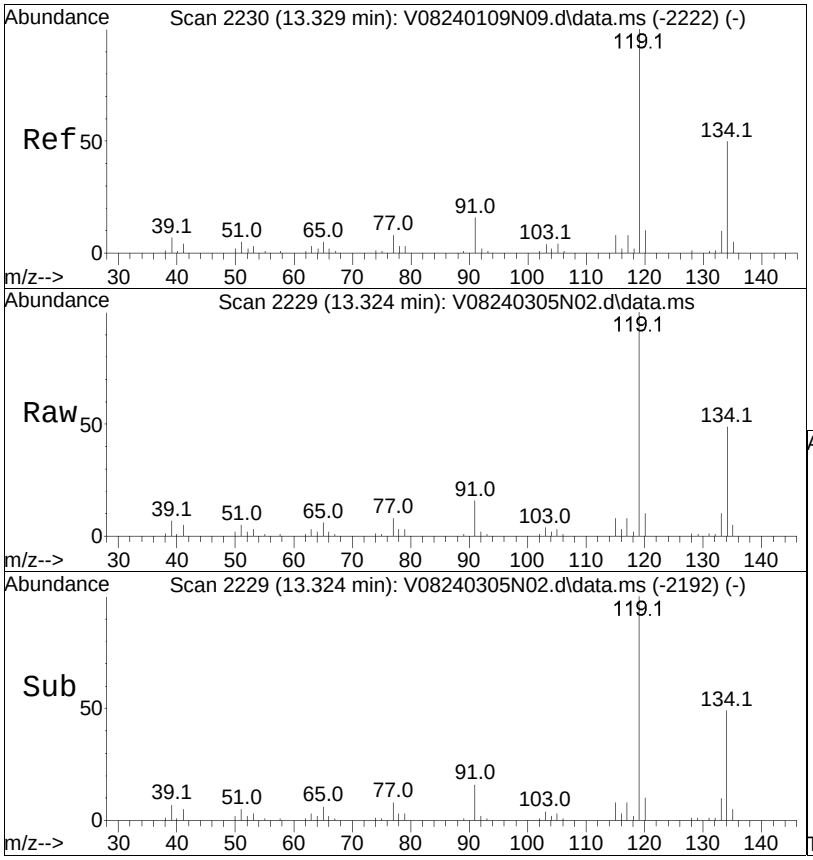


#104
1,2-Dichlorobenzene
Concen: 9.49 ug/L
RT: 12.736 min Scan# 2117
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:146 Resp: 62575

Ion	Ratio	Lower	Upper
146	100		
111	42.2	28.3	58.7
148	63.8	42.3	87.8

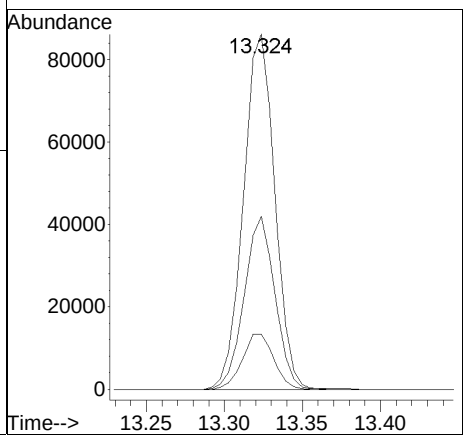


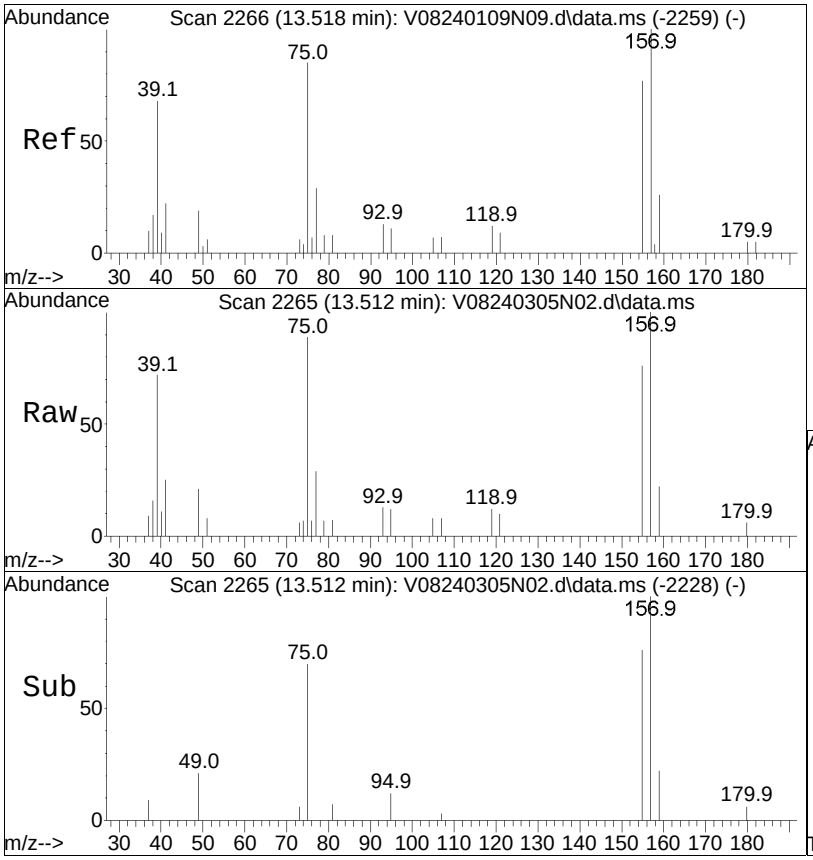


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.01 ug/L
RT: 13.324 min Scan# 2229
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:119 Resp: 120642

Ion	Ratio	Lower	Upper
119	100		
134	47.7	30.5	63.3
91	15.6	12.4	25.7

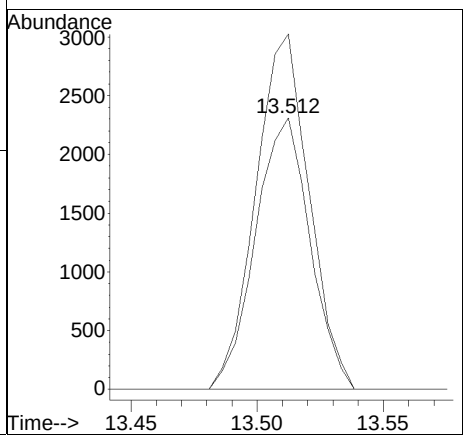


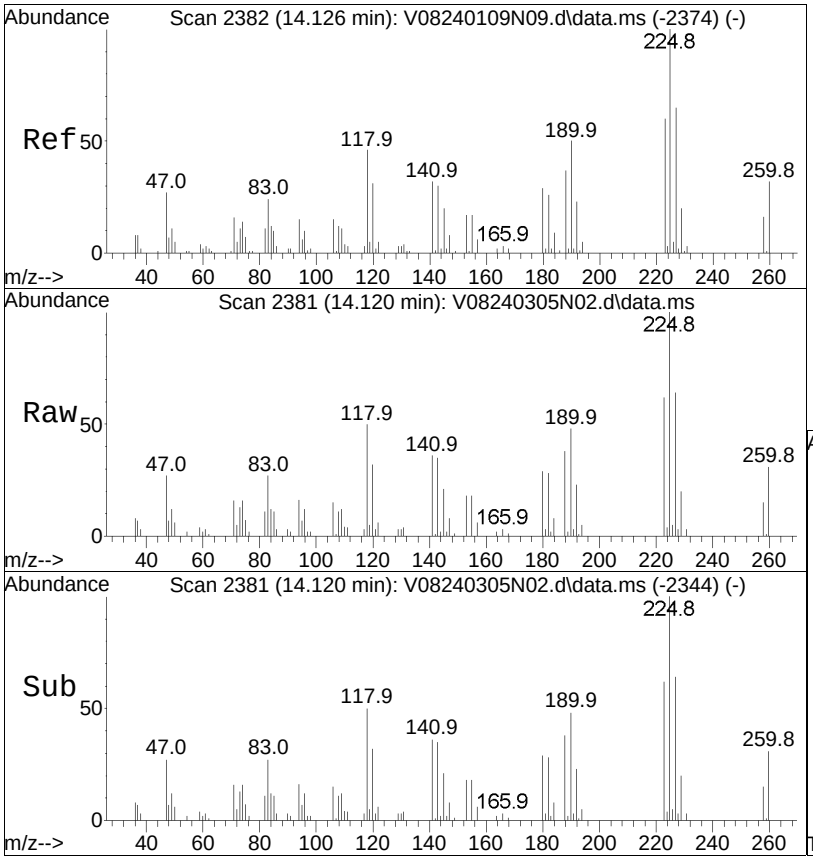


#106
1,2-Dibromo-3-chloropropane
Concen: 8.94 ug/L
RT: 13.512 min Scan# 2265
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:155 Resp: 3481

Ion	Ratio	Lower	Upper
155	100		
157	128.0	94.8	142.2

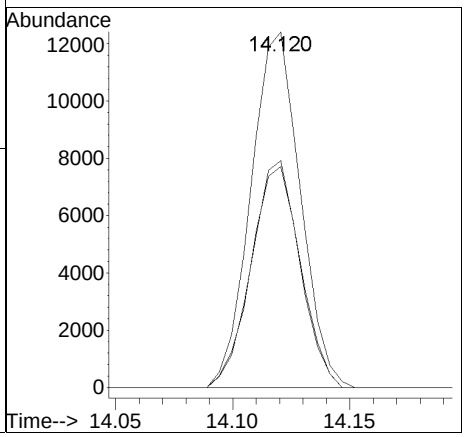


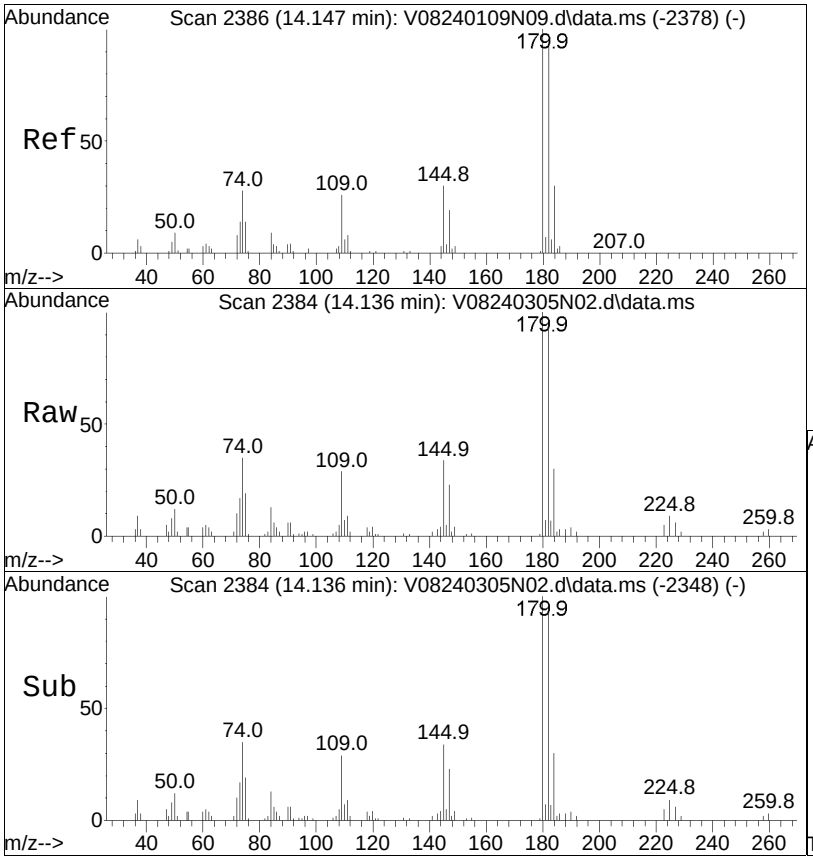


#108
Hexachlorobutadiene
Concen: 8.62 ug/L
RT: 14.120 min Scan# 2381
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:225 Resp: 18208

Ion	Ratio	Lower	Upper
225	100		
223	62.0	54.3	81.5
227	63.0	52.4	78.6

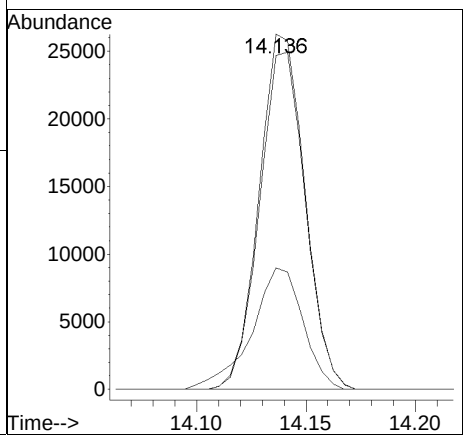


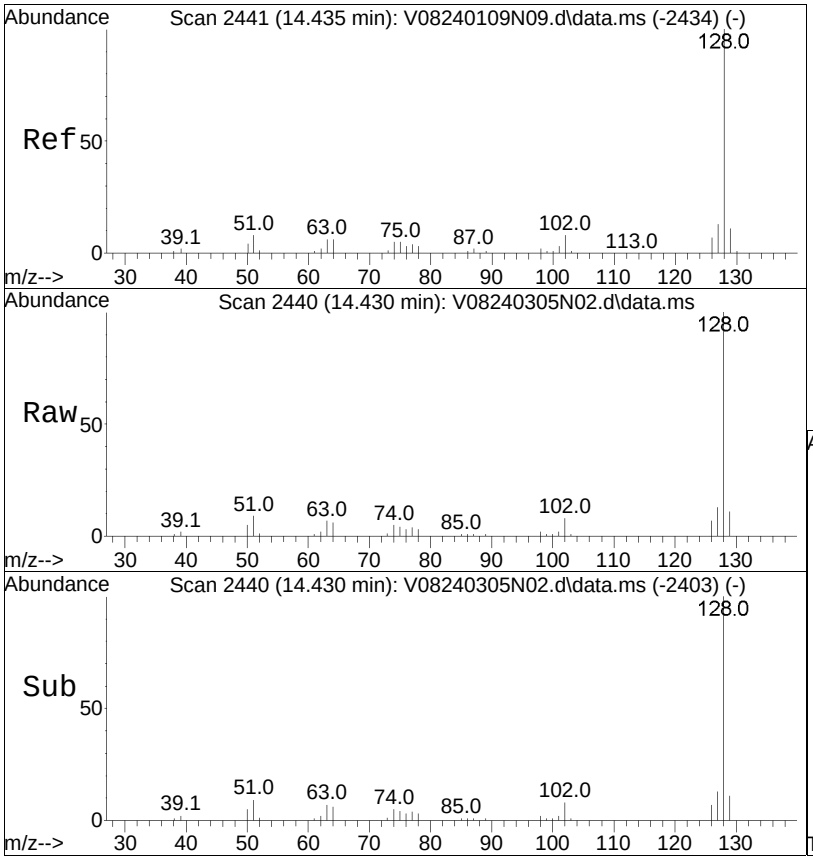


#109
1,2,4-Trichlorobenzene
Concen: 8.40 ug/L
RT: 14.136 min Scan# 2384
Delta R.T. -0.011 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:180 Resp: 38282

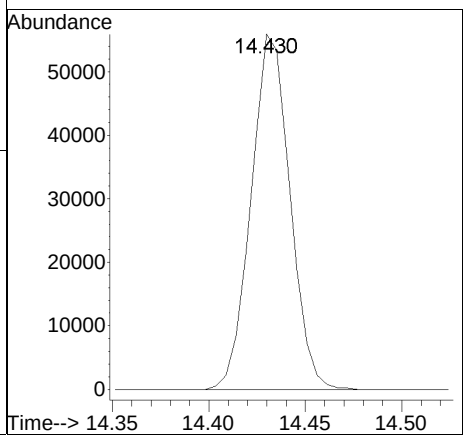
Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.3	115.9
145	38.4	28.1	42.1

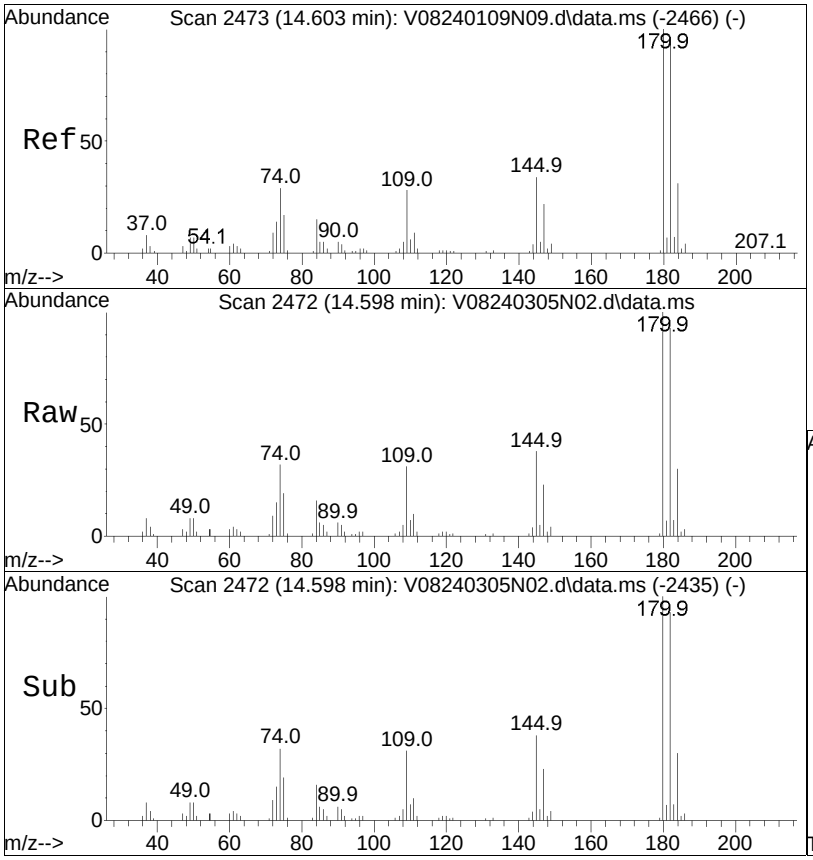




#110
Naphthalene
Concen: 8.78 ug/L
RT: 14.430 min Scan# 2440
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:128 Resp: 78318

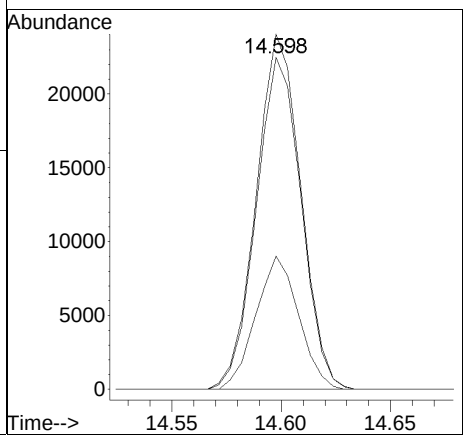




#111
1,2,3-Trichlorobenzene
Concen: 8.45 ug/L
RT: 14.598 min Scan# 2472
Delta R.T. -0.005 min
Lab File: V08240305N02.d
Acq: 5 Mar 2024 5:51 pm

Tgt Ion:180 Resp: 34201

Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.4	114.6
145	35.9	26.4	39.6

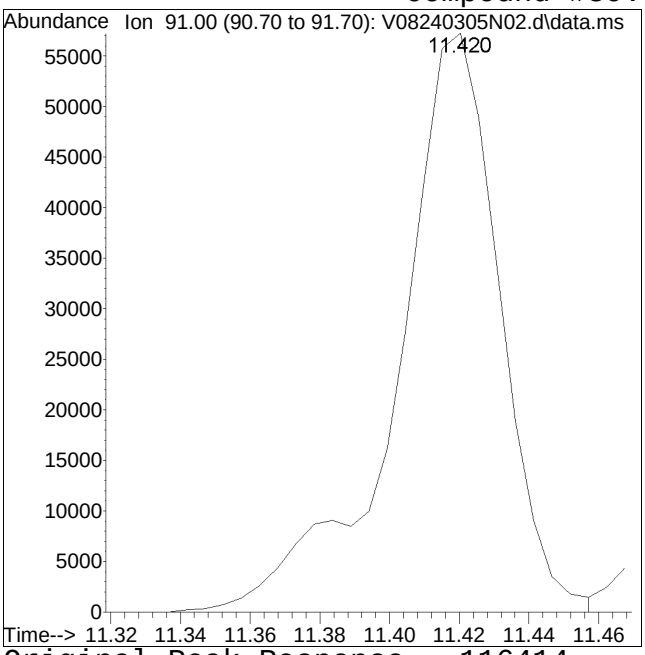


Manual Integration Report

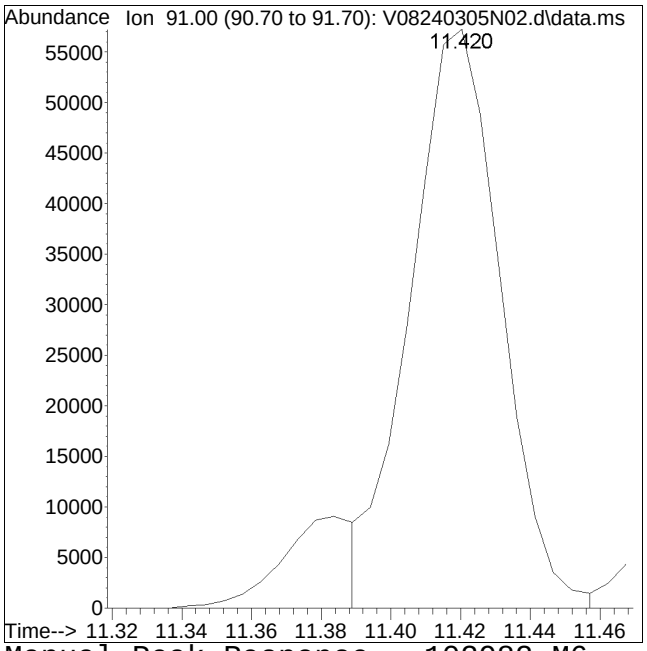
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N02.d
Date Inj'd : 3/5/2024 5:51 pm
Sample : WG1893240-4,31,10,10

QMethod : V108_240109N_8260.m
Operator : VOA108:TMS
Instrument : VOA 108
Quant Date : 3/5/2024 6:18 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 116414



Manual Peak Response = 102982 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N27.d
Acq On : 6 Mar 2024 3:07 am
Operator : VOA108:RAW
Sample : WG1893240-6,31,10,10,,D
Misc : WG1893240,ICAL20750
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 22:30:40 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.093	96	219252	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 142.18%			
59) Chlorobenzene-d5	9.617	117	170294	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 154.39%			
79) 1,4-Dichlorobenzene-d4	12.301	152	84994	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 168.70%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	57197	9.926	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.26%			
43) 1,2-Dichloroethane-d4	5.805	65	60246	9.821	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.21%			
60) Toluene-d8	7.782	98	212498	9.961	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.61%			
83) 4-Bromofluorobenzene	11.100	95	77217	10.082	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.694	85	46095	10.987	ug/L	98
3) Chloromethane	1.894	50	62980	11.417	ug/L	99
4) Vinyl chloride	1.962	62	59939	10.163	ug/L	96
5) Bromomethane	2.282	94	28087	7.236	ug/L	98
6) Chloroethane	2.407	64	32783	8.785	ug/L	97
7) Trichlorofluoromethane	2.544	101	62503	8.767	ug/L	97
8) Ethyl ether	2.843	74	19074	8.625	ug/L	81
10) 1,1-Dichloroethene	3.031	96	45514	11.439	ug/L #	65
11) Carbon disulfide	3.063	76	149022	10.874	ug/L	97
15) Methylene chloride	3.587	84	48679	10.325	ug/L	74
17) Acetone	3.624	43	12335	16.027	ug/L	97
18) trans-1,2-Dichloroethene	3.739	96	51084	11.113	ug/L	78
20) Methyl tert-butyl ether	3.839	73	106155	10.136	ug/L	95
23) 1,1-Dichloroethane	4.321	63	95769	10.670	ug/L	99
25) Acrylonitrile	4.363	53	11801	13.026	ug/L #	82
27) Vinyl acetate	4.557	43	80772	9.114	ug/L #	95
28) cis-1,2-Dichloroethene	4.840	96	55898	10.559	ug/L #	72
29) 2,2-Dichloropropane	4.945	77	66822	9.181	ug/L	96
30) Bromochloromethane	5.034	128	25485	10.324	ug/L #	57
32) Chloroform	5.102	83	86926	10.184	ug/L	95

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N27.d
Acq On : 6 Mar 2024 3:07 am
Operator : VOA108:RAW
Sample : WG1893240-6,31,10,10,,D
Misc : WG1893240,ICAL20750
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 22:30:40 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.244	117	70393	10.566	ug/L		98
37) 1,1,1-Trichloroethane	5.307	97	76893	10.279	ug/L	#	92
39) 2-Butanone	5.391	43	13332	11.134	ug/L	#	69
40) 1,1-Dichloropropene	5.427	75	67042	10.623	ug/L		94
41) Benzene	5.674	78	238759	12.985	ug/L		91
44) 1,2-Dichloroethane	5.873	62	58492	9.585	ug/L		97
48) Trichloroethene	6.266	95	53382	11.094	ug/L		91
50) Dibromomethane	6.701	93	25889	9.684	ug/L		97
51) 1,2-Dichloropropane	6.812	63	52499	10.556	ug/L		94
54) Bromodichloromethane	6.880	83	63270	9.681	ug/L		99
57) 1,4-Dioxane	7.084	88	12982	755.708	ug/L	#	79
58) cis-1,3-Dichloropropene	7.567	75	70632	9.289	ug/L	#	87
61) Toluene	7.839	92	145454	12.393	ug/L		96
62) 4-Methyl-2-pentanone	8.269	58	10214	8.893	ug/L	#	96
63) Tetrachloroethene	8.285	166	53712	10.704	ug/L		88
65) trans-1,3-Dichloropropene	8.311	75	59423	9.167	ug/L		90
68) 1,1,2-Trichloroethane	8.500	83	30702	10.386	ug/L		93
69) Chlorodibromomethane	8.710	129	44898	9.541	ug/L		95
70) 1,3-Dichloropropane	8.825	76	61834	10.053	ug/L		99
71) 1,2-Dibromoethane	8.993	107	35355	9.882	ug/L		98
72) 2-Hexanone	9.271	43	15563	7.981	ug/L		93
73) Chlorobenzene	9.643	112	136371	9.920	ug/L		96
74) Ethylbenzene	9.680	91	269030	11.816	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.721	131	49863	9.883	ug/L		95
76) p/m Xylene	9.868	106	225627	24.965	ug/L		93
77) o Xylene	10.403	106	212255	23.727	ug/L		89
78) Styrene	10.466	104	270743	18.286	ug/L		87
80) Bromoform	10.492	173	24315	9.257	ug/L		95
82) Isopropylbenzene	10.781	105	220926	10.058	ug/L		94
84) Bromobenzene	11.210	156	54721	9.846	ug/L		98
85) n-Propylbenzene	11.258	91	261412	10.146	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.336	83	41080	10.380	ug/L		99
88) 4-Ethyltoluene	11.383	105	243834	11.038	ug/L		94
89) 2-Chlorotoluene	11.420	91	150497M6	9.641	ug/L		
90) 1,3,5-Trimethylbenzene	11.483	105	214920	11.294	ug/L		88
91) 1,2,3-Trichloropropane	11.478	75	31512	9.775	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.530	53	9604	8.546	ug/L	#	76
93) 4-Chlorotoluene	11.604	91	159712	9.874	ug/L		90
94) tert-Butylbenzene	11.824	119	165065	10.037	ug/L		97

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N27.d
Acq On : 6 Mar 2024 3:07 am
Operator : VOA108:RAW
Sample : WG1893240-6,31,10,10,,D
Misc : WG1893240,ICAL20750
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 22:30:40 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.897	105	213762	11.412	ug/L	90
98)	sec-Butylbenzene	12.013	105	238031	9.950	ug/L	96
99)	p-Isopropyltoluene	12.165	119	207309	9.776	ug/L	93
100)	1,3-Dichlorobenzene	12.222	146	108127	9.744	ug/L	98
101)	1,4-Dichlorobenzene	12.317	146	109062	9.736	ug/L	98
102)	p-Diethylbenzene	12.537	119	126606	9.787	ug/L	93
103)	n-Butylbenzene	12.589	91	174938	9.890	ug/L	97
104)	1,2-Dichlorobenzene	12.736	146	99616	9.666	ug/L	97
105)	1,2,4,5-Tetramethylben...	13.323	119	194351	9.287	ug/L	95
106)	1,2-Dibromo-3-chloropr...	13.512	155	5605	9.212	ug/L	89
108)	Hexachlorobutadiene	14.120	225	30861	9.352	ug/L	95
109)	1,2,4-Trichlorobenzene	14.141	180	63656	8.933	ug/L	98
110)	Naphthalene	14.435	128	144987	10.398	ug/L	100
111)	1,2,3-Trichlorobenzene	14.597	180	56209	8.883	ug/L	98

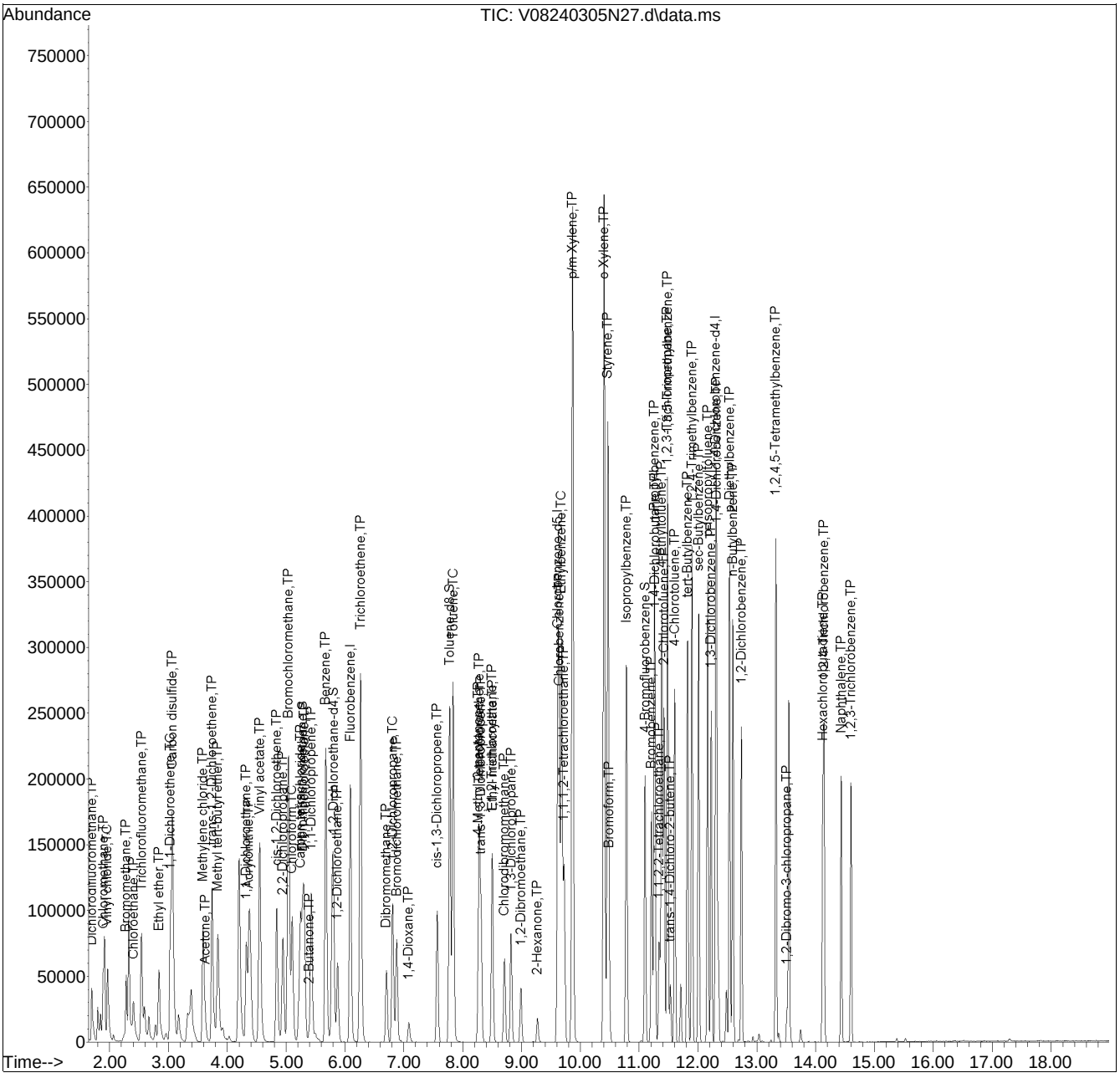
(#) = qualifier out of range (m) = manual integration (+) = signals summed

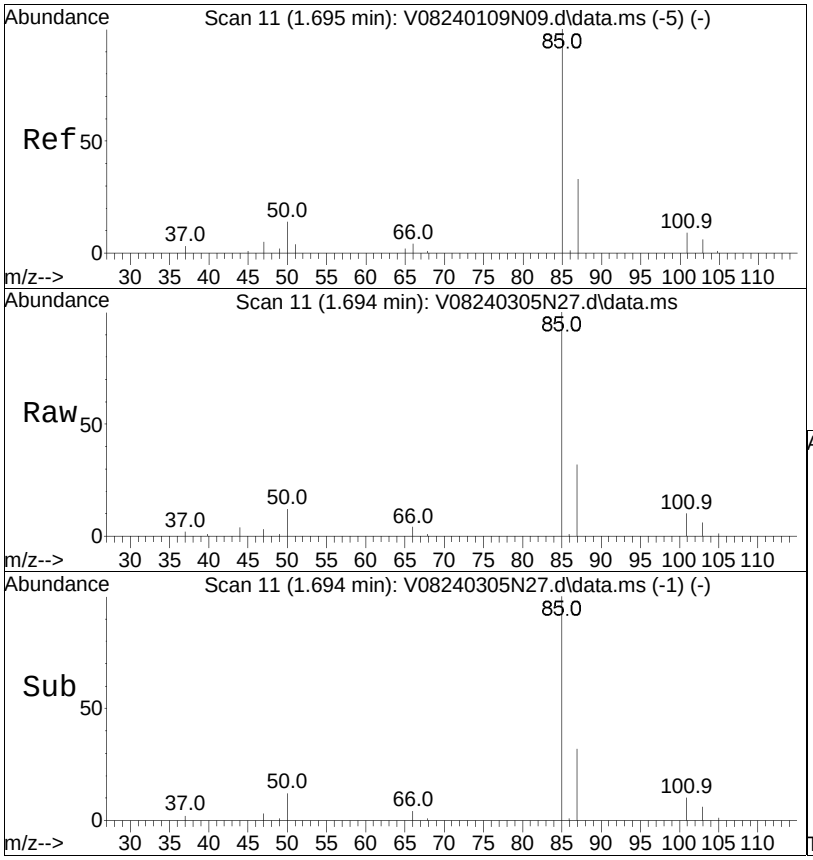
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N27.d
Acq On : 6 Mar 2024 3:07 am
Operator : VOA108:RAW
Sample : WG1893240-6,31,10,10,,D
Misc : WG1893240,ICAL20750
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 22:30:40 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

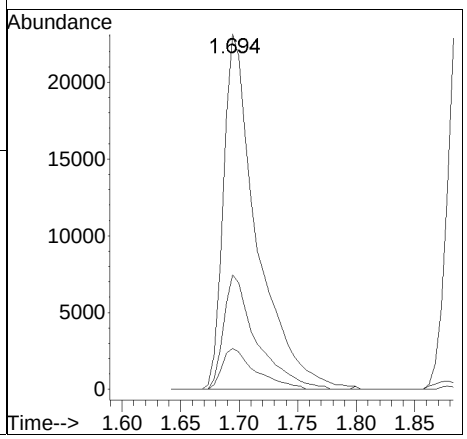


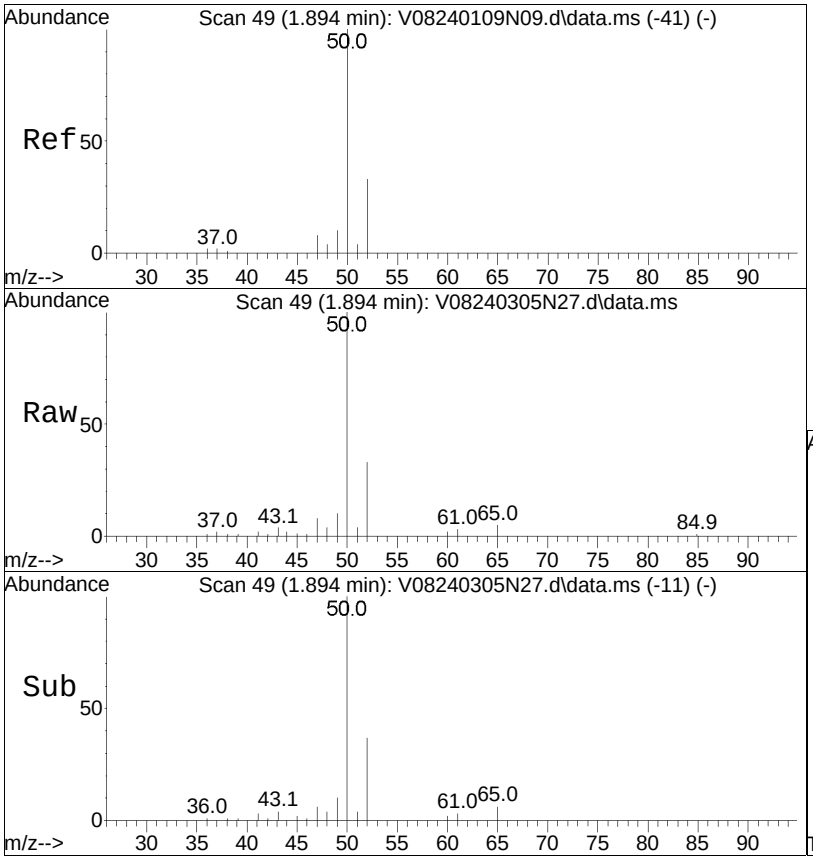


#2
Dichlorodifluoromethane
Concen: 10.99 ug/L
RT: 1.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 85 Resp: 46095

Ion	Ratio	Lower	Upper
85	100		
87	31.7	21.0	43.6
50	11.6	8.9	18.5

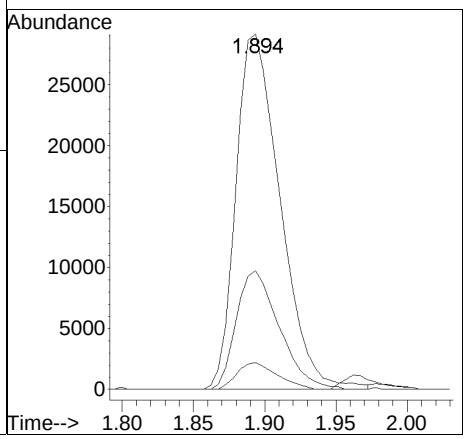


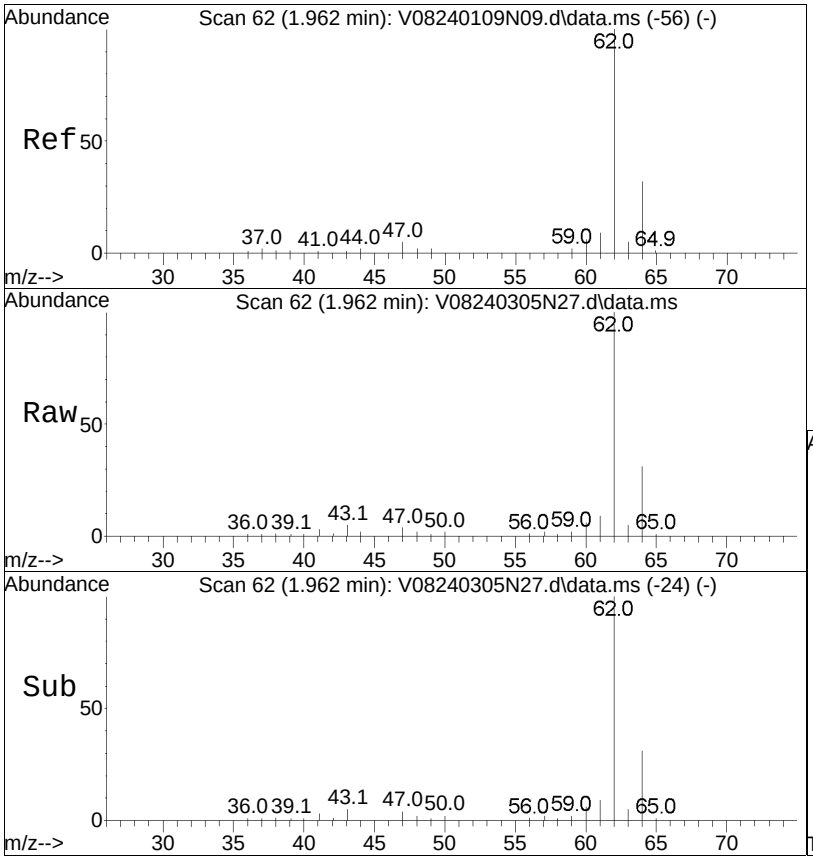


#3
Chloromethane
Concen: 11.42 ug/L
RT: 1.894 min Scan# 49
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 50 Resp: 62980

Ion	Ratio	Lower	Upper
50	100		
52	32.5	12.9	52.9
47	6.9	0.0	28.3

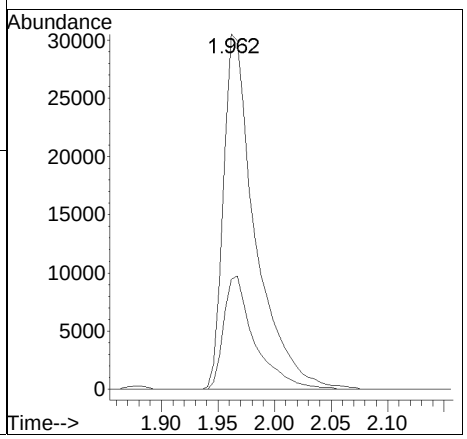


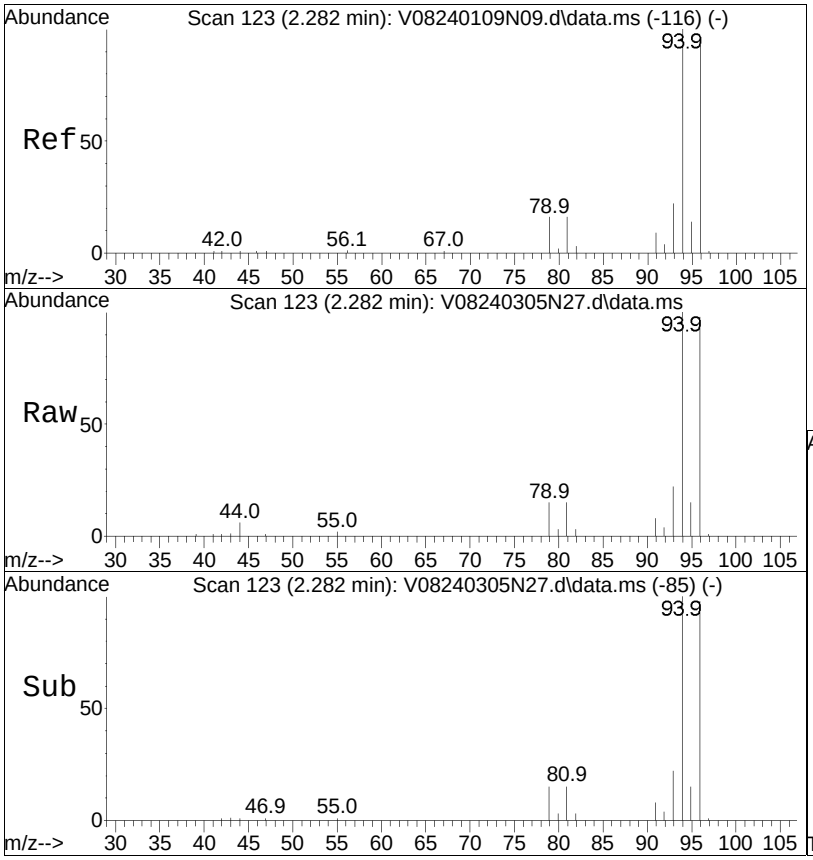


#4
Vinyl chloride
Concen: 10.16 ug/L
RT: 1.962 min Scan# 62
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 62 Resp: 59939

Ion	Ratio	Lower	Upper
62	100		
64	31.1	9.1	49.1

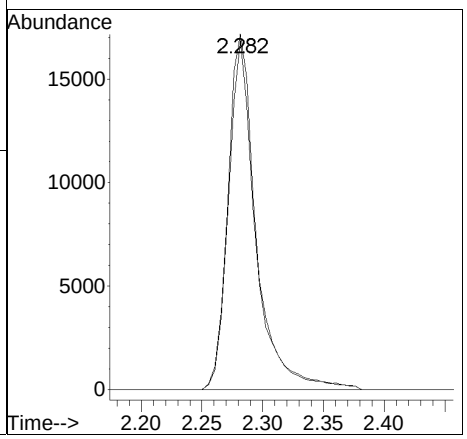


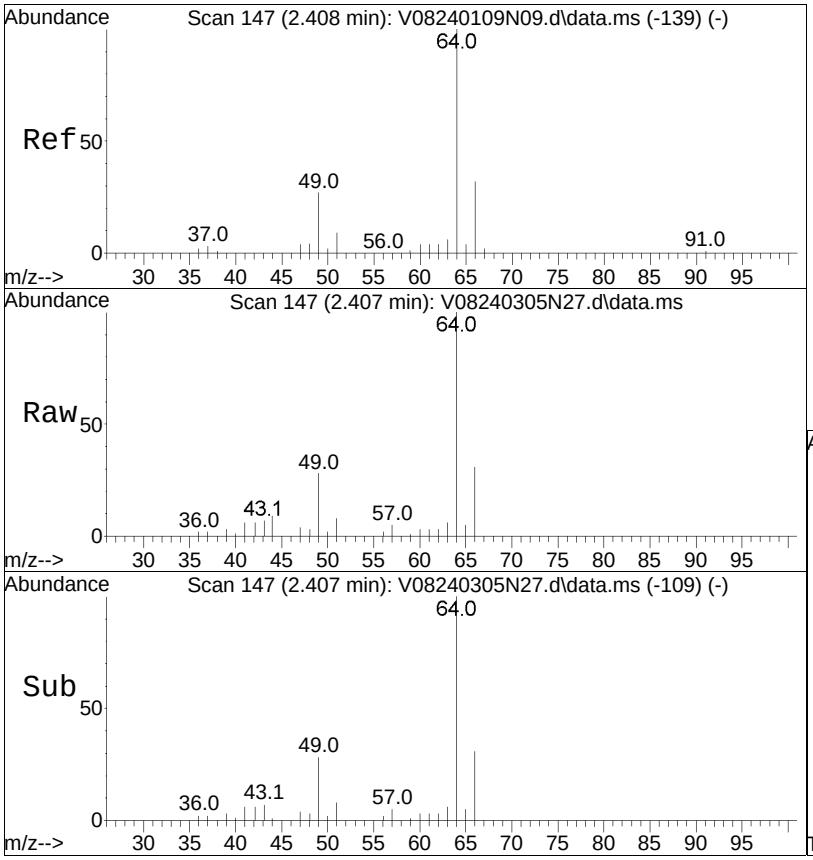


#5
Bromomethane
Concen: 7.24 ug/L
RT: 2.282 min Scan# 123
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 94 Resp: 28087

Ion	Ratio	Lower	Upper
94	100		
96	93.8	75.6	115.6

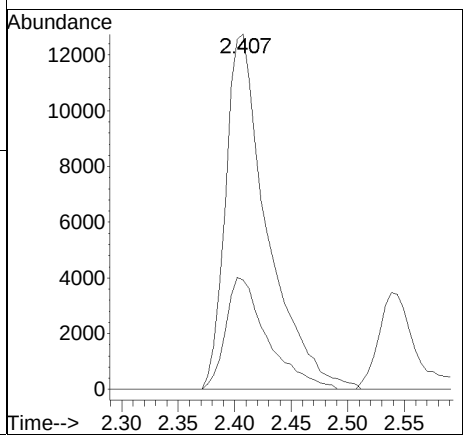


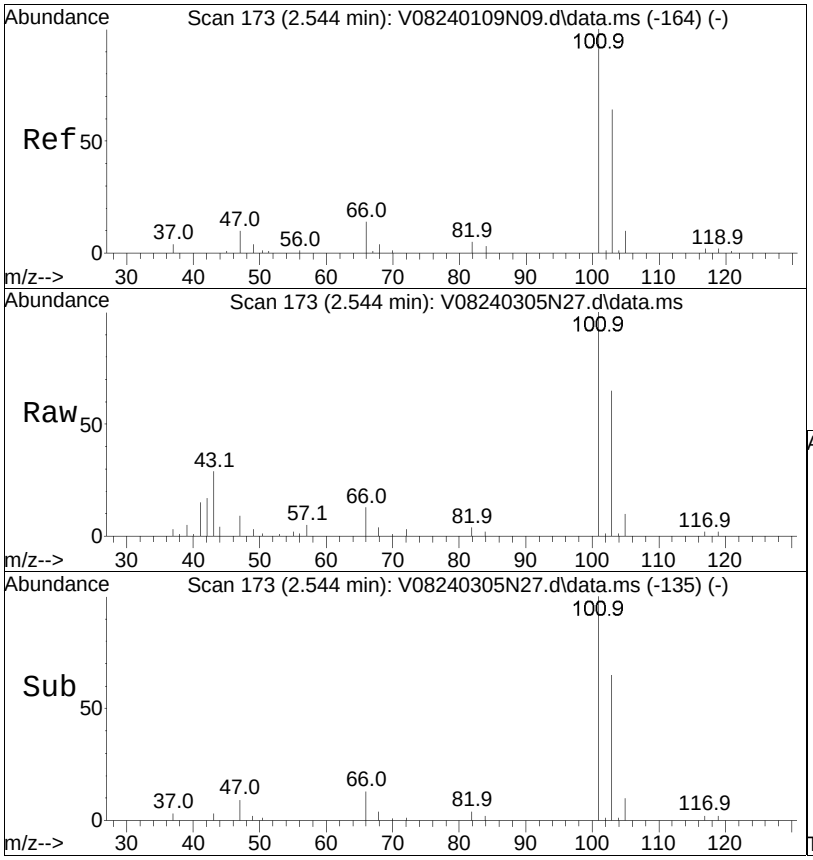


#6
Chloroethane
Concen: 8.79 ug/L
RT: 2.407 min Scan# 147
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 64 Resp: 32783

Ion	Ratio	Lower	Upper
64	100		
66	31.5	9.8	49.8

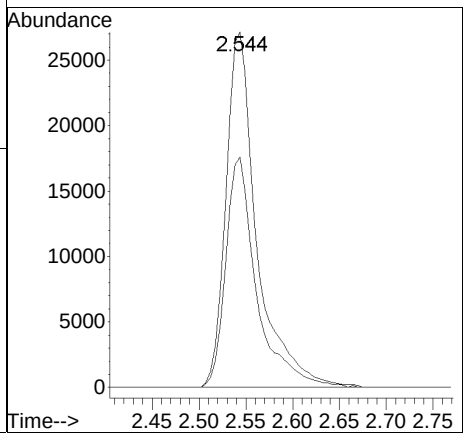


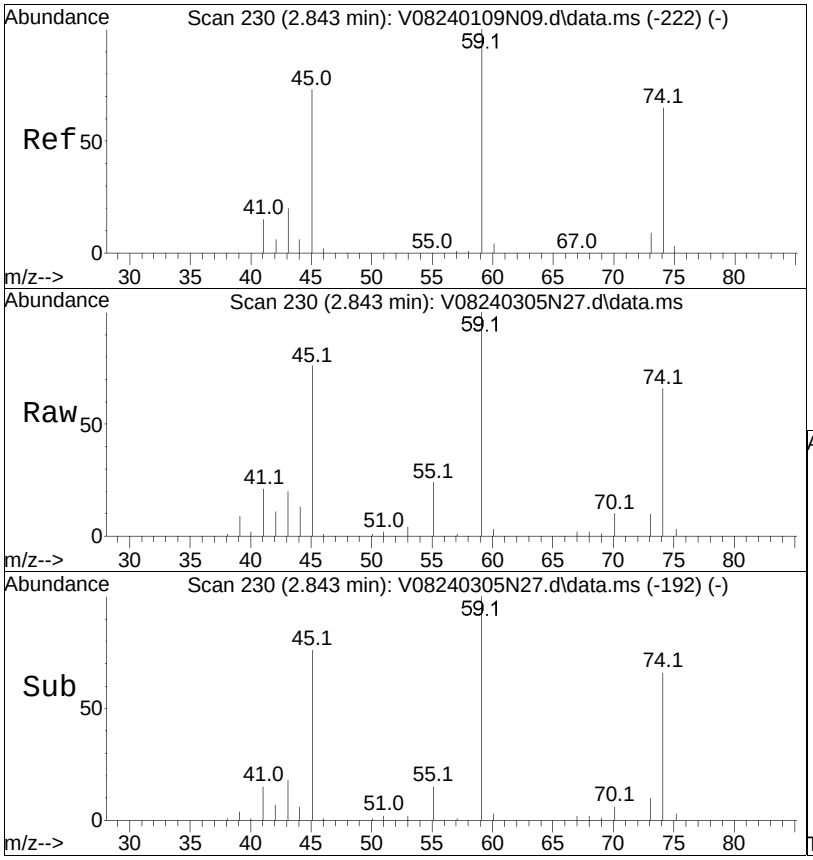


#7
Trichlorofluoromethane
Concen: 8.77 ug/L
RT: 2.544 min Scan# 173
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:101 Resp: 62503

Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.8	80.6

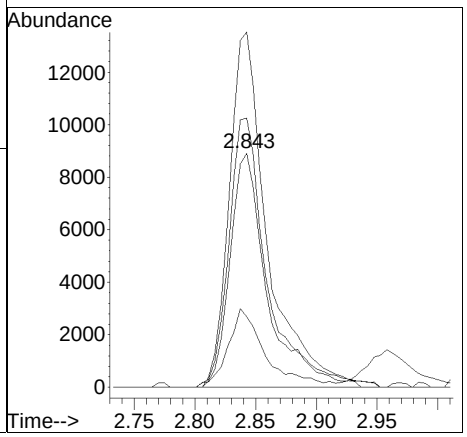


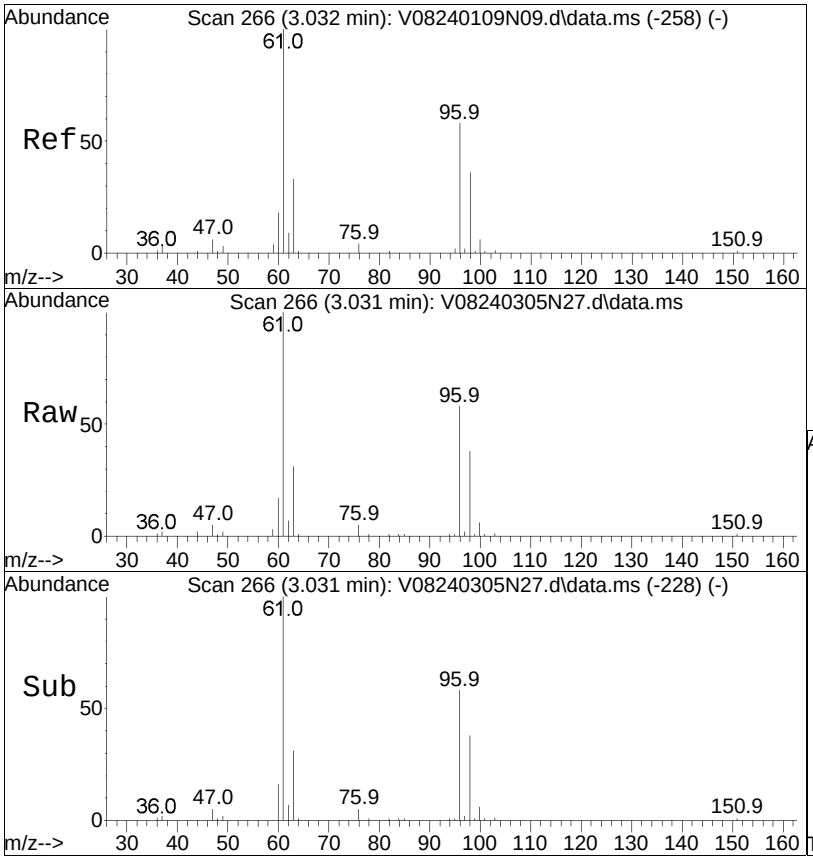


#8
Ethyl ether
Concen: 8.63 ug/L
RT: 2.843 min Scan# 230
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 74 Resp: 19074

Ion	Ratio	Lower	Upper
74	100		
59	156.2	122.2	253.8
45	119.1	91.9	190.9
43	34.2	25.2	52.2

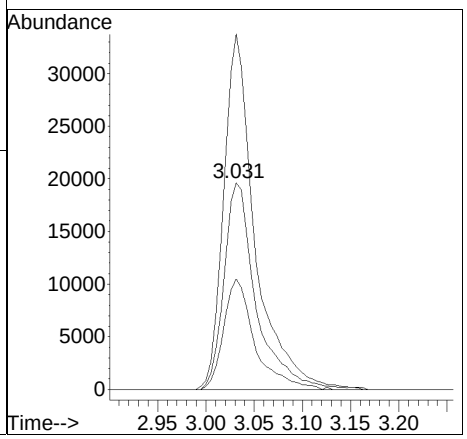


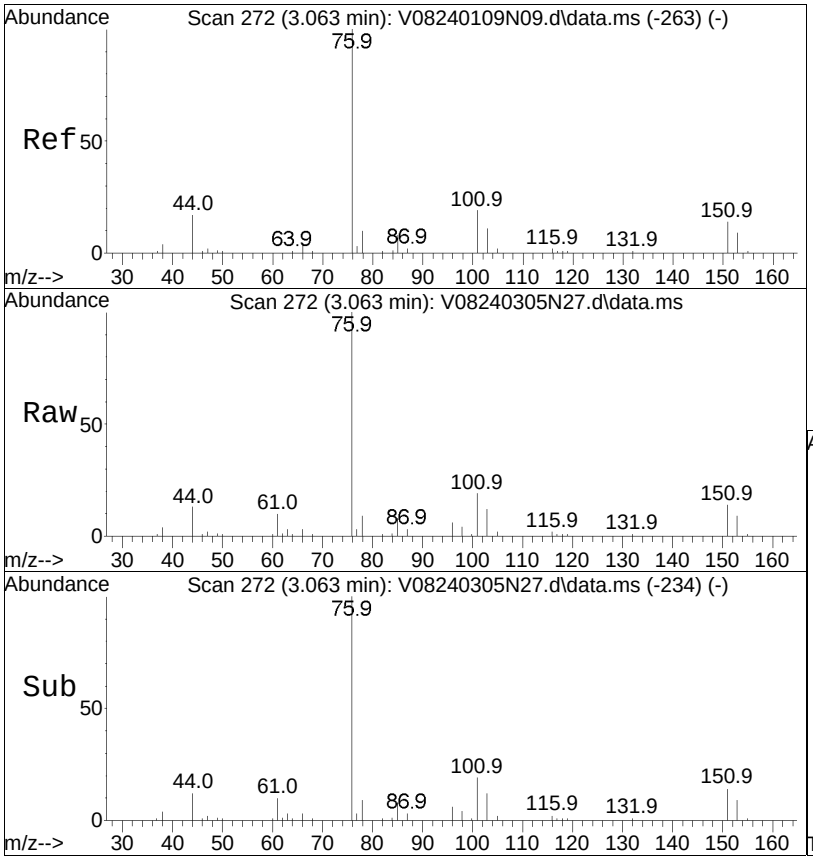


#10
1,1-Dichloroethene
Concen: 11.44 ug/L
RT: 3.031 min Scan# 266
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 96 Resp: 45514

Ion	Ratio	Lower	Upper
96	100		
61	168.2	186.1	279.1#
63	52.0	57.6	86.4#

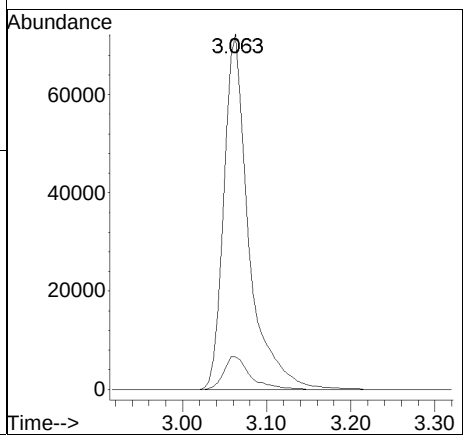


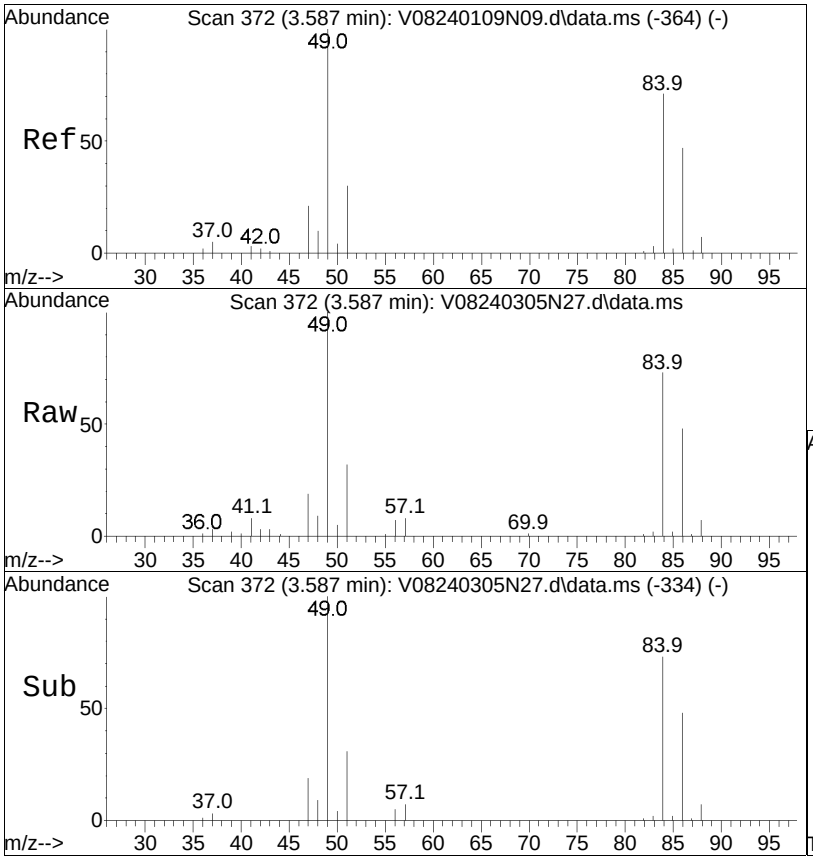


#11
Carbon disulfide
Concen: 10.87 ug/L
RT: 3.063 min Scan# 272
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 76 Resp: 149022

Ion	Ratio	Lower	Upper
76	100		
78	9.8	5.7	11.7

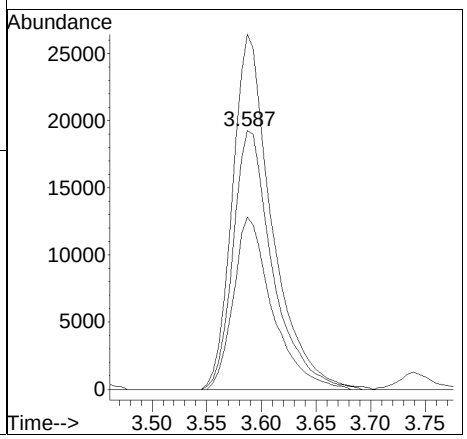


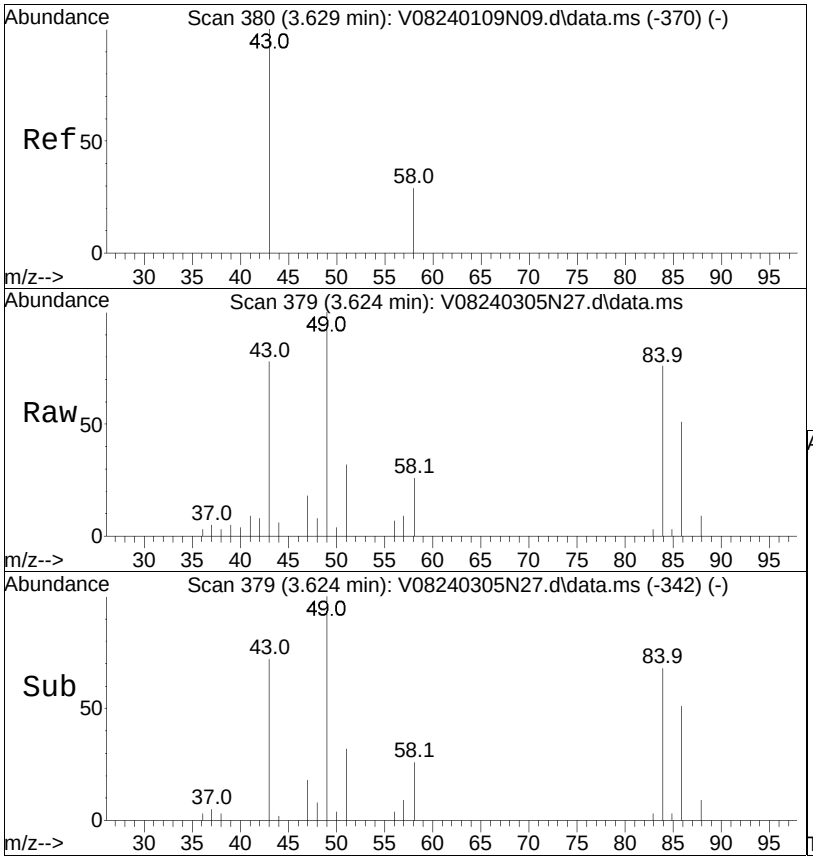


#15
Methylene chloride
Concen: 10.32 ug/L
RT: 3.587 min Scan# 372
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 84 Resp: 48679

Ion	Ratio	Lower	Upper
84	100		
86	65.4	40.4	83.8
49	136.4	120.0	249.2

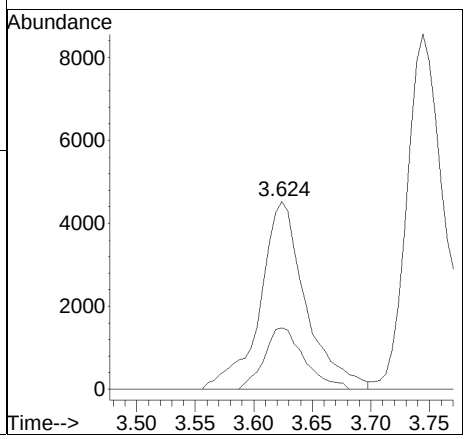


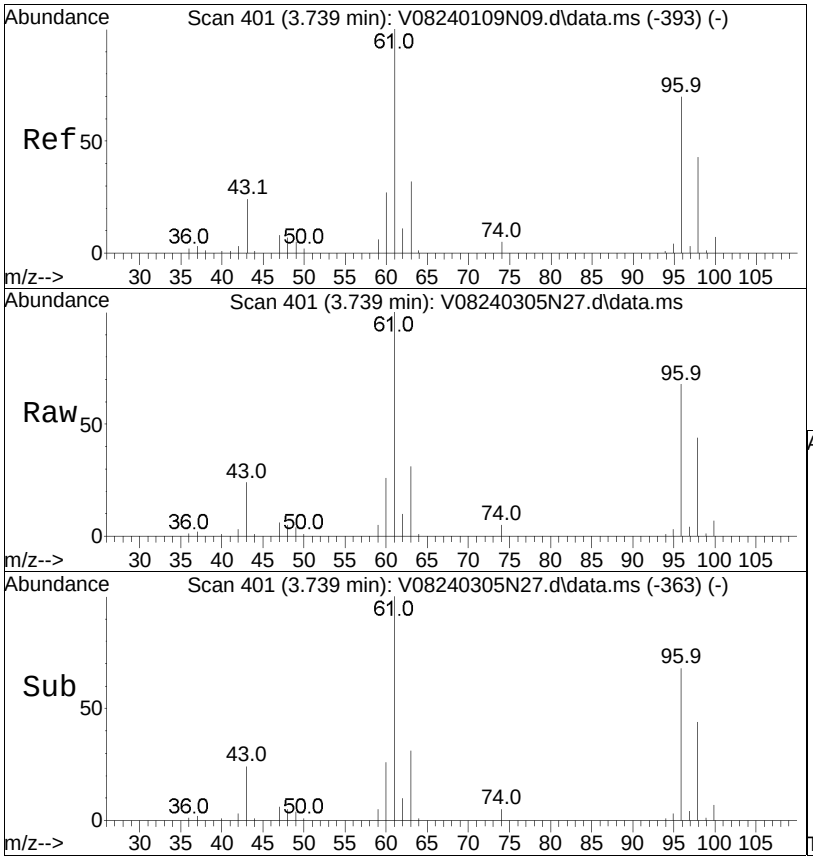


#17
Acetone
Concen: 16.03 ug/L
RT: 3.624 min Scan# 379
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 43 Resp: 12335

Ion	Ratio	Lower	Upper
43	100		
58	28.8	24.2	36.4

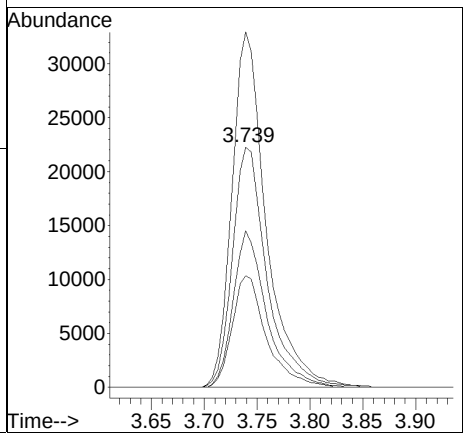


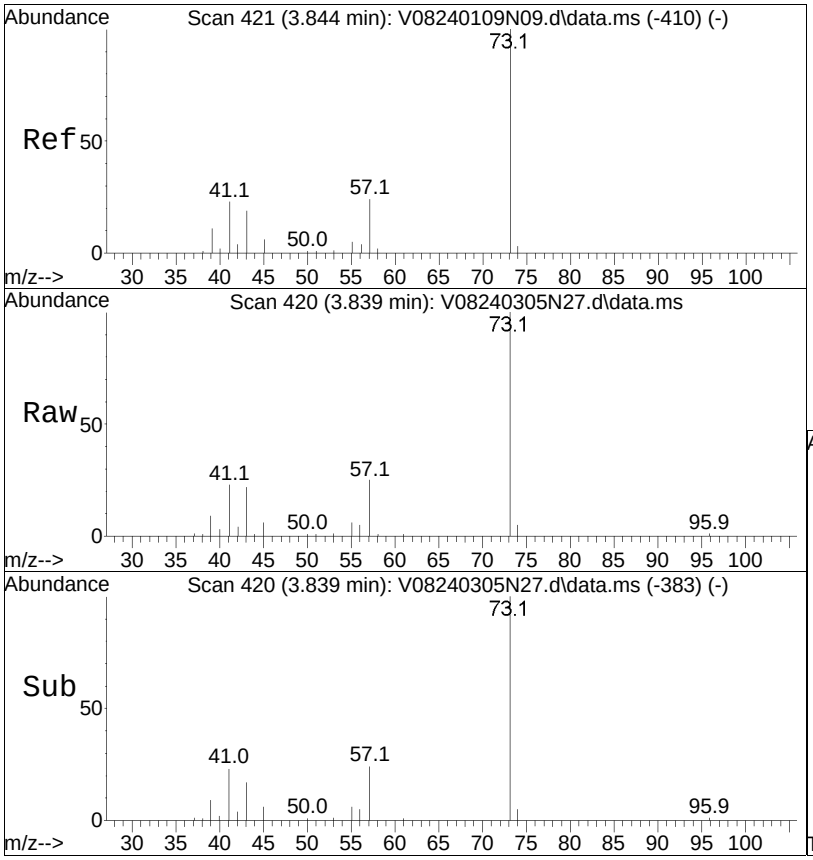


#18
trans-1,2-Dichloroethene
Concen: 11.11 ug/L
RT: 3.739 min Scan# 401
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 96 Resp: 51084

Ion	Ratio	Lower	Upper
96	100		
61	146.2	124.0	257.6
98	63.1	41.2	85.6
63	45.9	38.4	79.7

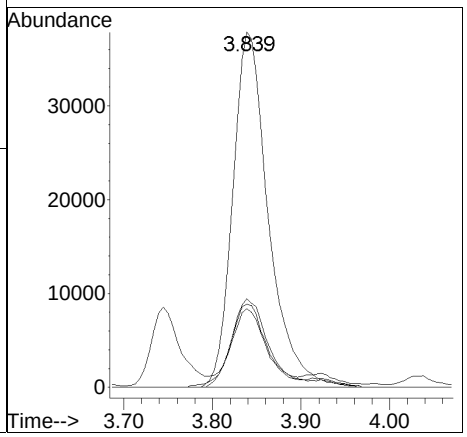


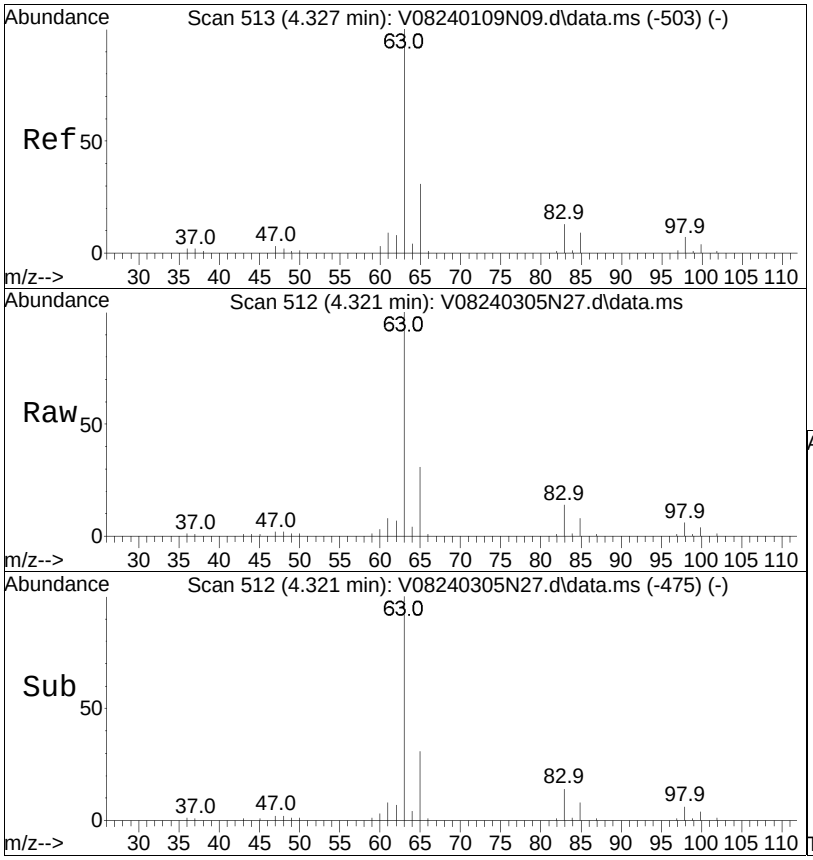


#20
Methyl tert-butyl ether
Concen: 10.14 ug/L
RT: 3.839 min Scan# 420
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 73 Resp: 106155

Ion	Ratio	Lower	Upper
73	100		
57	25.6	17.5	36.3
43	18.6	15.3	31.9
41	24.2	15.3	31.7

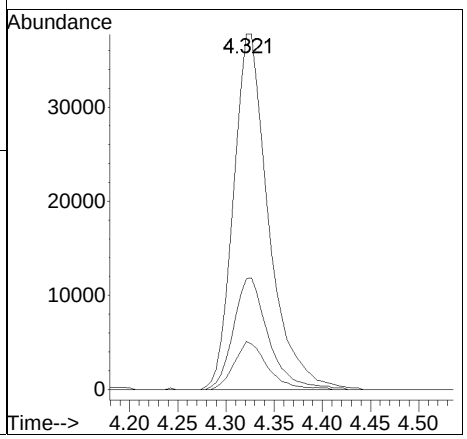


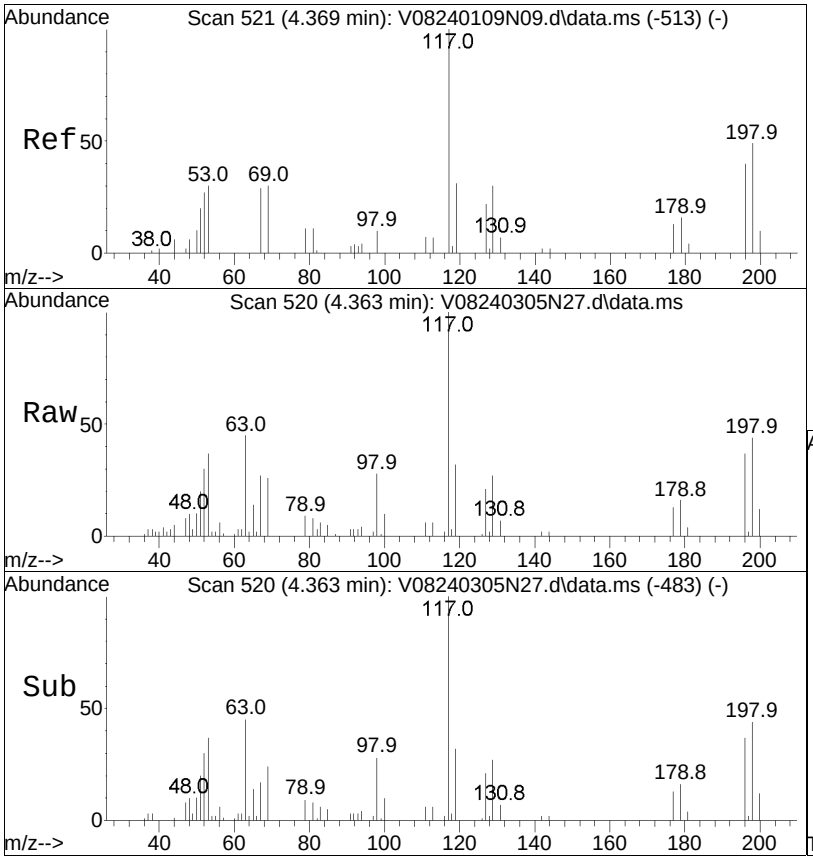


#23
1,1-Dichloroethane
Concen: 10.67 ug/L
RT: 4.321 min Scan# 512
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 63 Resp: 95769

Ion	Ratio	Lower	Upper
63	100		
65	31.3	11.0	51.0
83	12.7	0.0	31.8

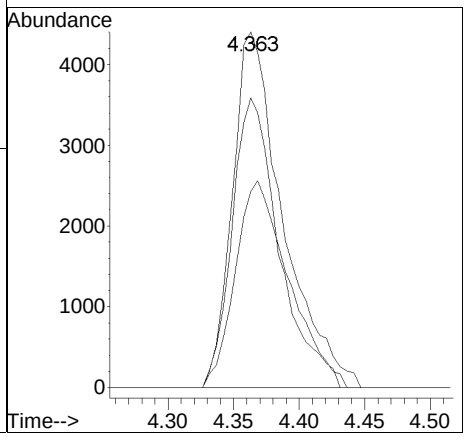


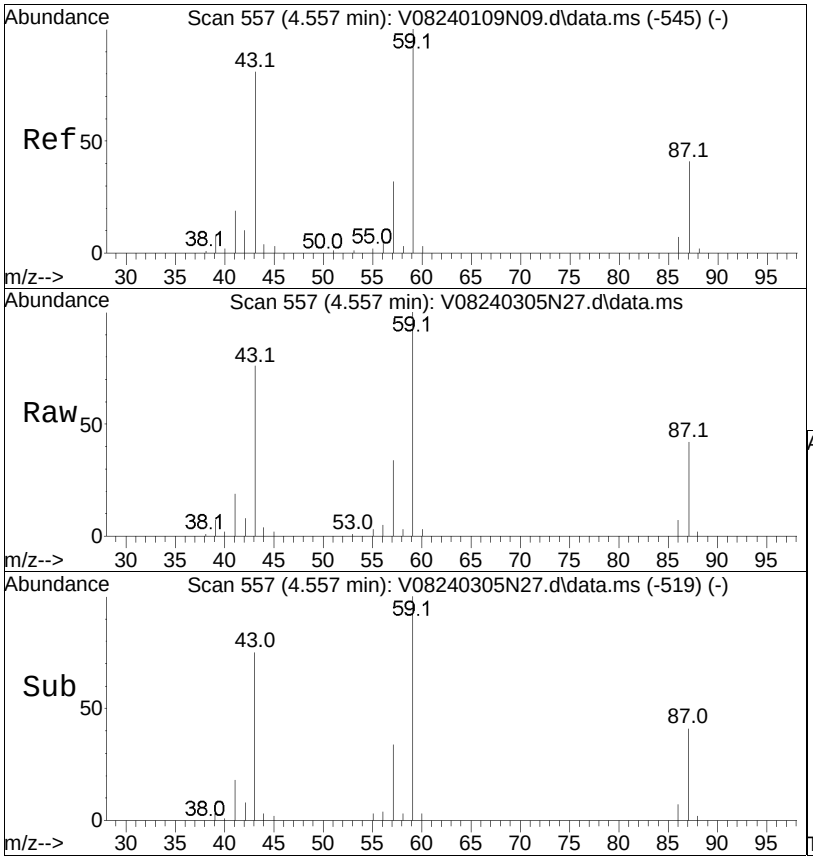


#25
Acrylonitrile
Concen: 13.03 ug/L
RT: 4.363 min Scan# 520
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 53 Resp: 11801

Ion	Ratio	Lower	Upper
53	100		
52	75.8	66.7	100.1
51	61.6	30.6	46.0#

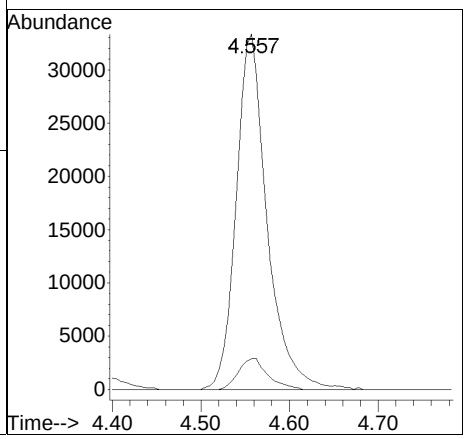


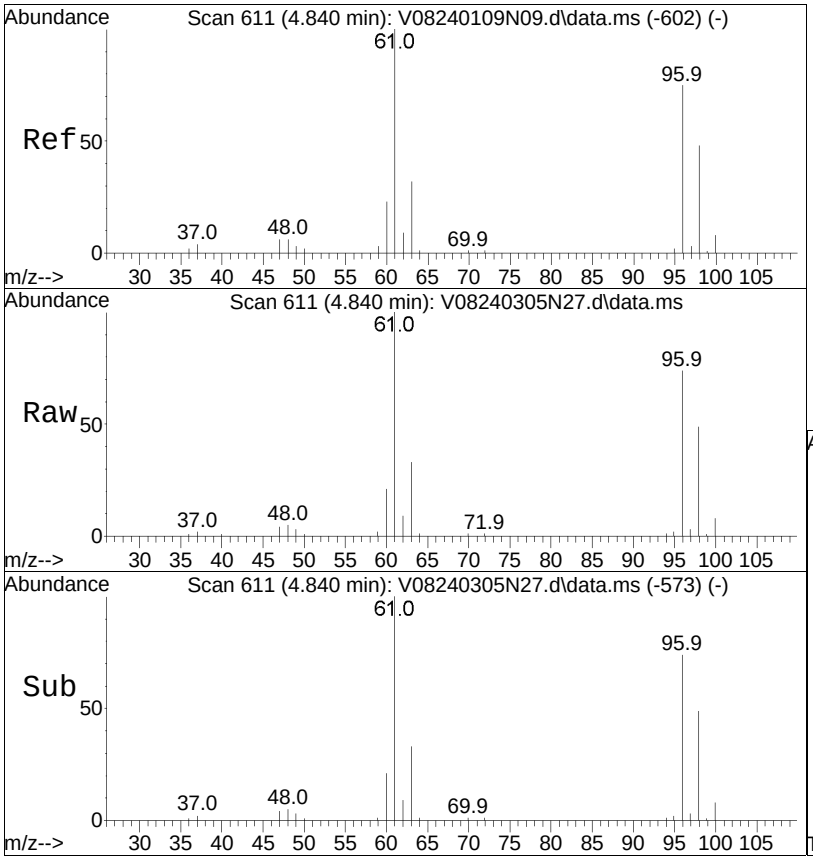


#27
Vinyl acetate
Concen: 9.11 ug/L
RT: 4.557 min Scan# 557
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 43 Resp: 80772

Ion	Ratio	Lower	Upper
43	100		
86	8.2	5.2	7.8#

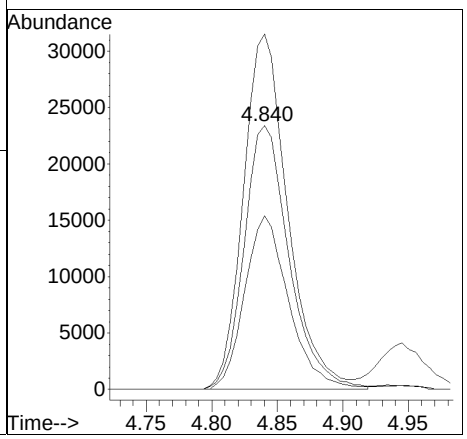


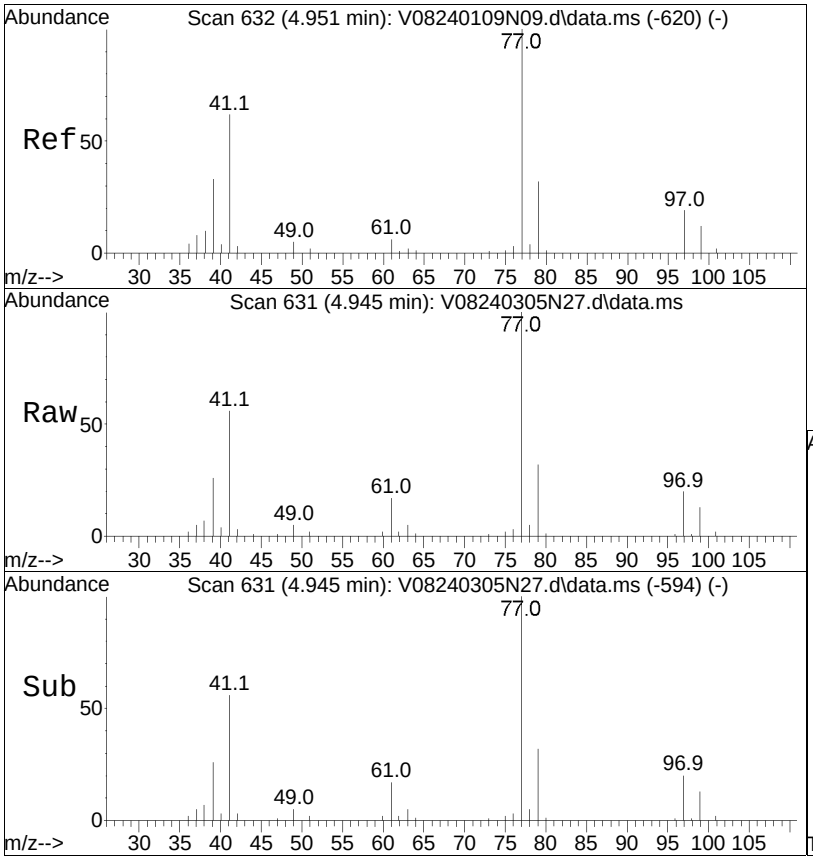


#28
cis-1,2-Dichloroethene
Concen: 10.56 ug/L
RT: 4.840 min Scan# 611
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 96 Resp: 55898

Ion	Ratio	Lower	Upper
96	100		
61	133.2	149.4	224.2#
98	64.7	53.4	80.2

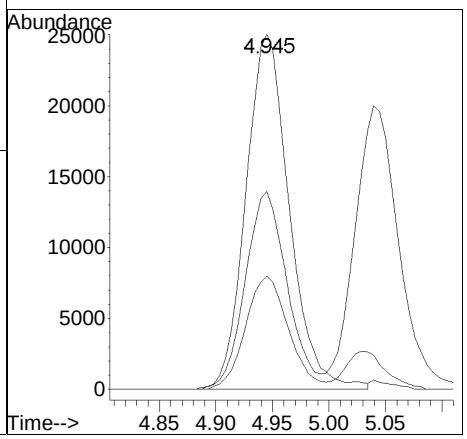


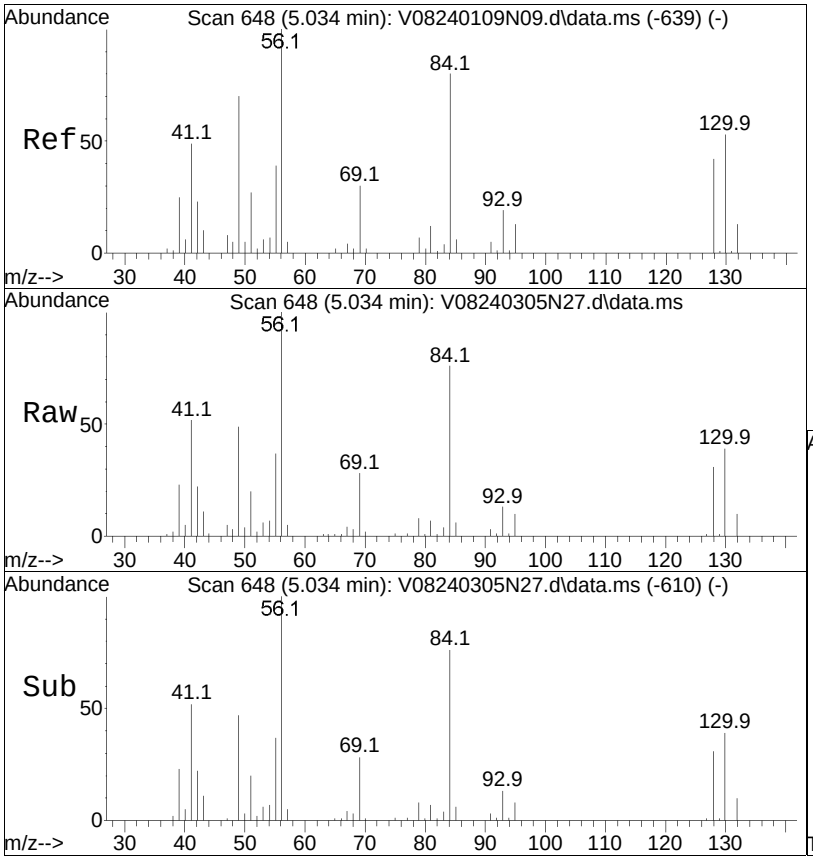


#29
2,2-Dichloropropane
Concen: 9.18 ug/L
RT: 4.945 min Scan# 631
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 77 Resp: 66822

Ion	Ratio	Lower	Upper
77	100		
41	53.8	38.0	78.8
79	31.7	20.5	42.5

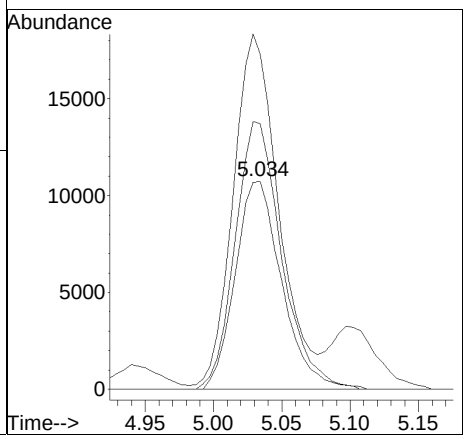


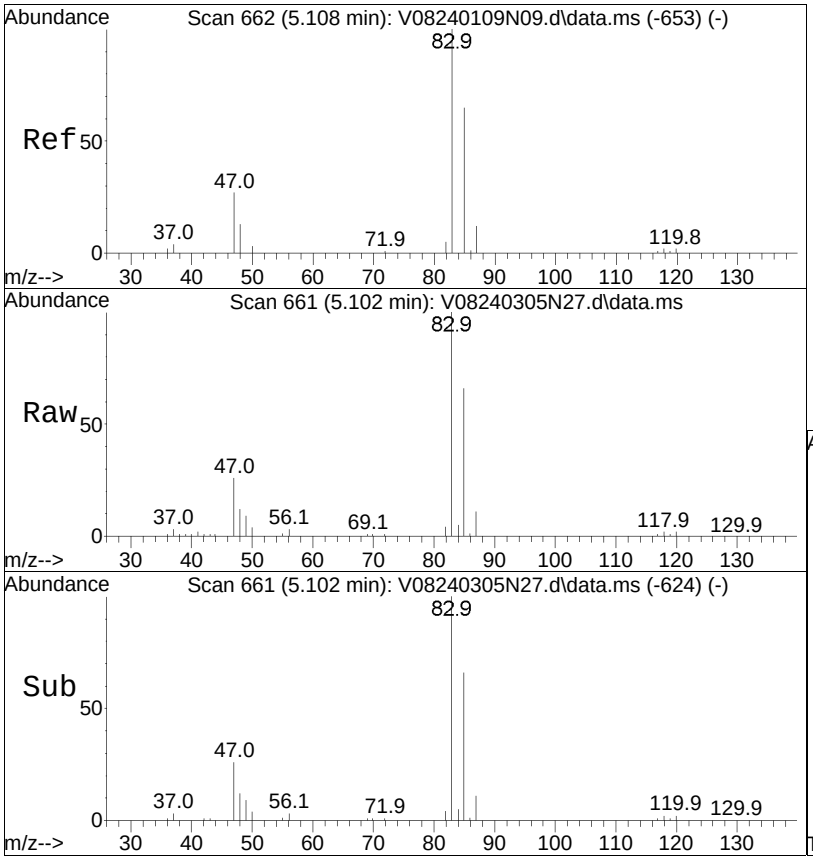


#30
Bromochloromethane
Concen: 10.32 ug/L
RT: 5.034 min Scan# 648
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:128 Resp: 25485

Ion	Ratio	Lower	Upper
128	100		
49	166.9	223.0	334.4#
130	128.5	111.4	167.0

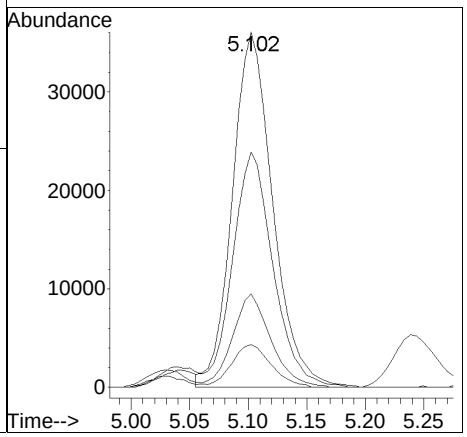


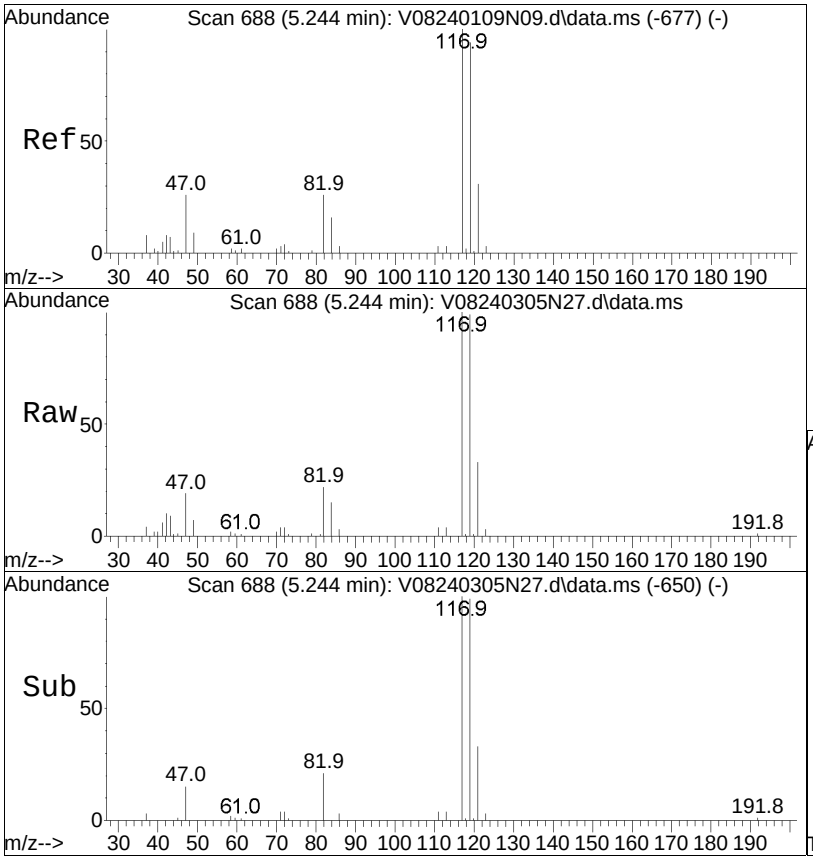


#32
Chloroform
Concen: 10.18 ug/L
RT: 5.102 min Scan# 661
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 83 Resp: 86926

Ion	Ratio	Lower	Upper
83	100		
85	66.1	41.5	86.1
47	25.0	19.0	39.4
48	11.8	9.9	20.5

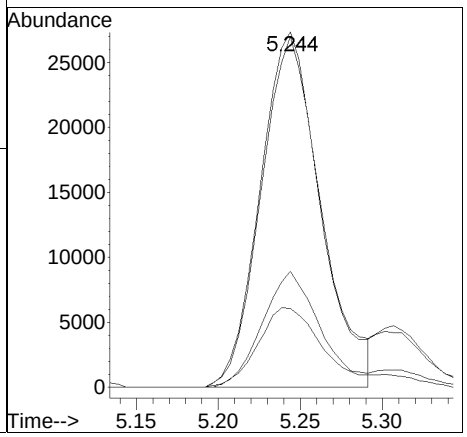


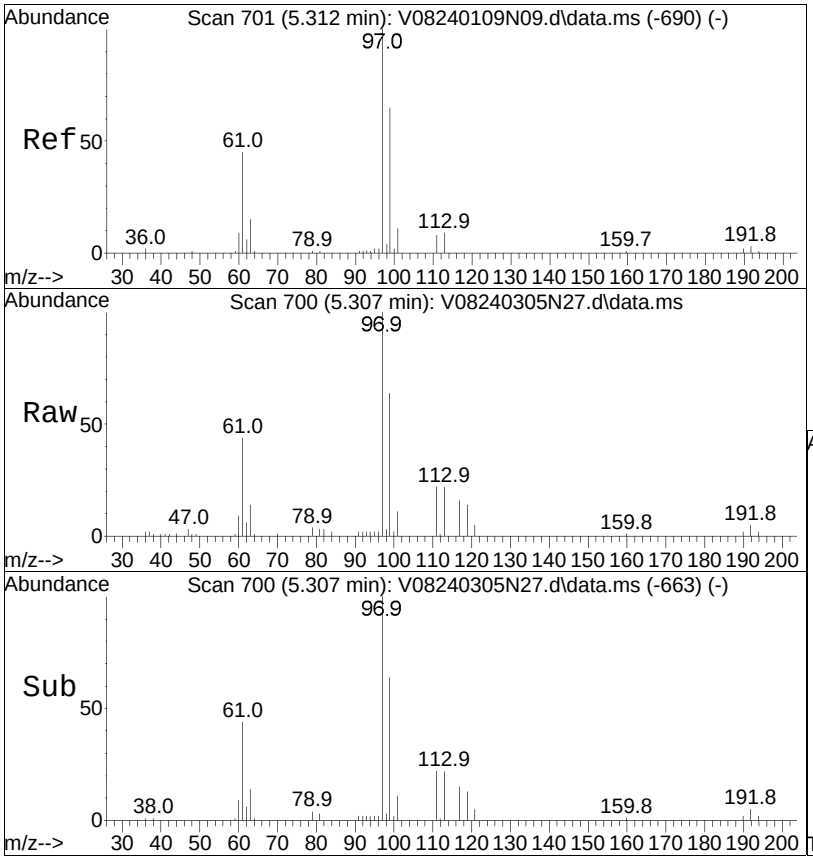


#34
Carbon tetrachloride
Concen: 10.57 ug/L
RT: 5.244 min Scan# 688
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:117 Resp: 70393

Ion	Ratio	Lower	Upper
117	100		
119	95.0	62.4	129.6
121	31.2	19.5	40.5
82	23.8	17.0	35.4

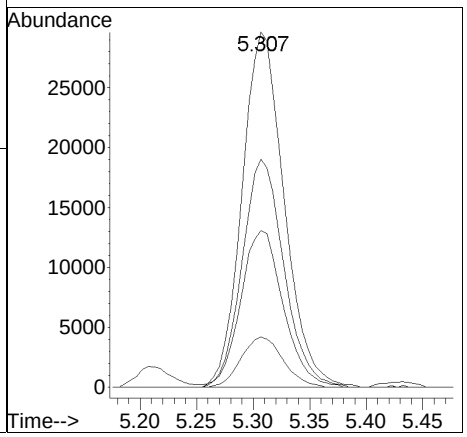


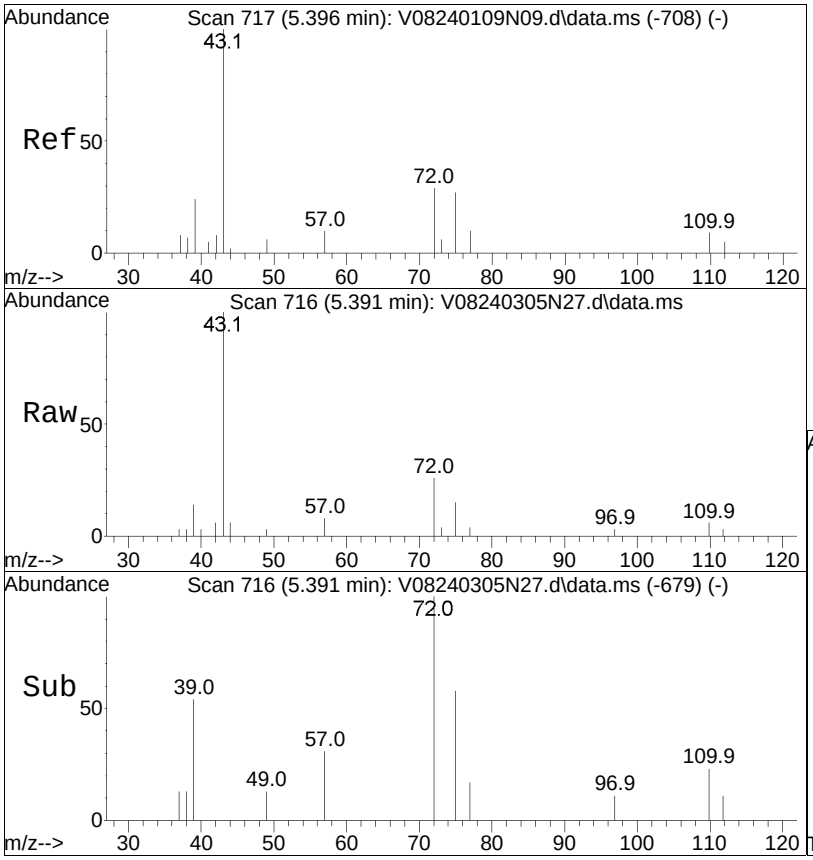


#37
1,1,1-Trichloroethane
Concen: 10.28 ug/L
RT: 5.307 min Scan# 700
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 97 Resp: 76893

Ion	Ratio	Lower	Upper
97	100		
99	63.8	40.7	84.5
61	44.8	35.4	73.4
63	14.2	5.0	10.4#

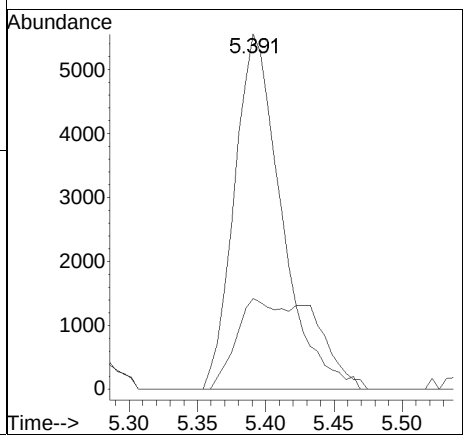


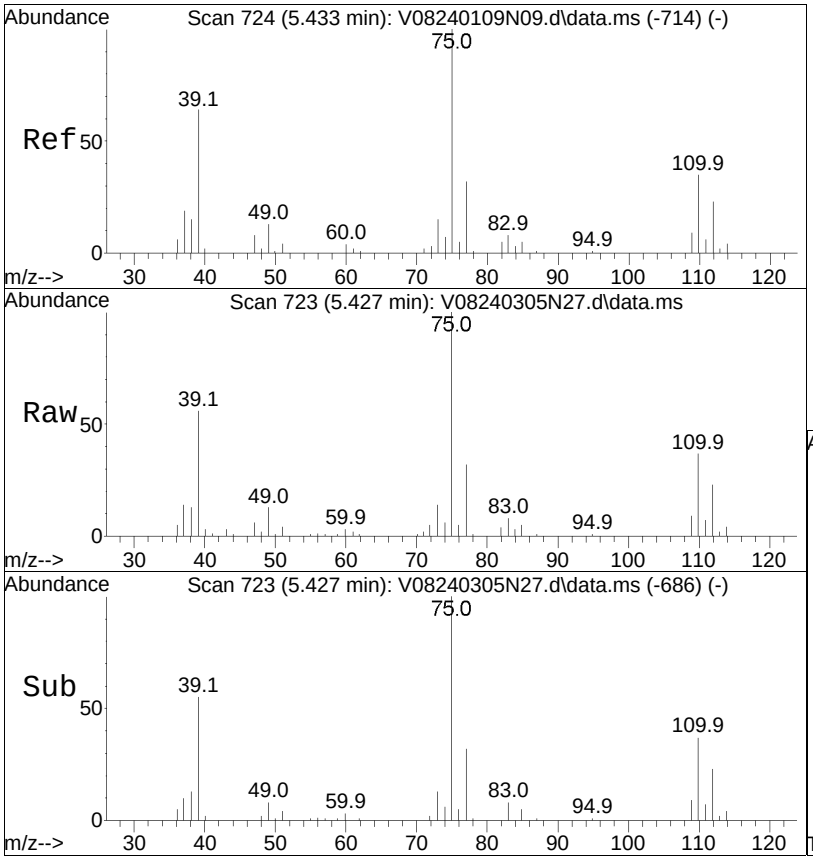


#39
2-Butanone
Concen: 11.13 ug/L
RT: 5.391 min Scan# 716
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 43 Resp: 13332

Ion	Ratio	Lower	Upper
43	100		
72	26.3	10.9	16.3#

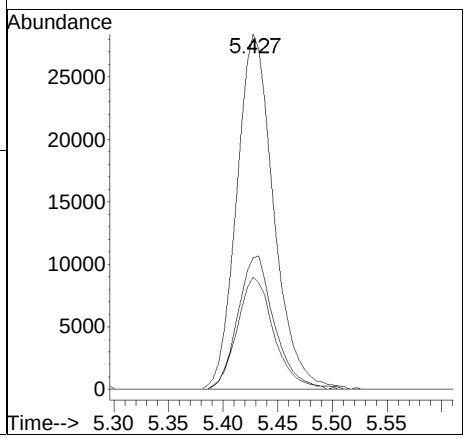


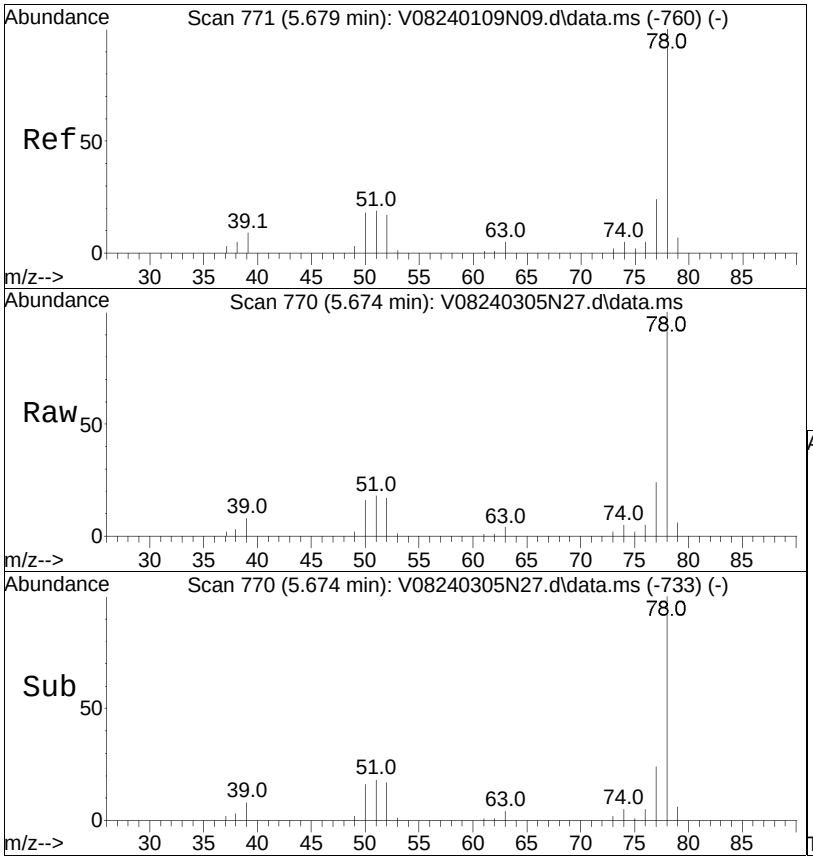


#40
1,1-Dichloropropene
Concen: 10.62 ug/L
RT: 5.427 min Scan# 723
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 75 Resp: 67042

Ion	Ratio	Lower	Upper
75	100		
110	37.1	20.2	41.9
77	31.6	20.1	41.7

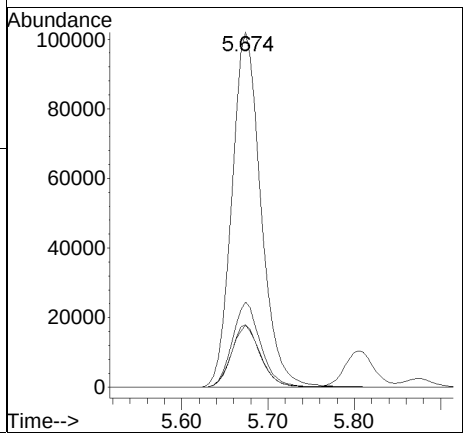


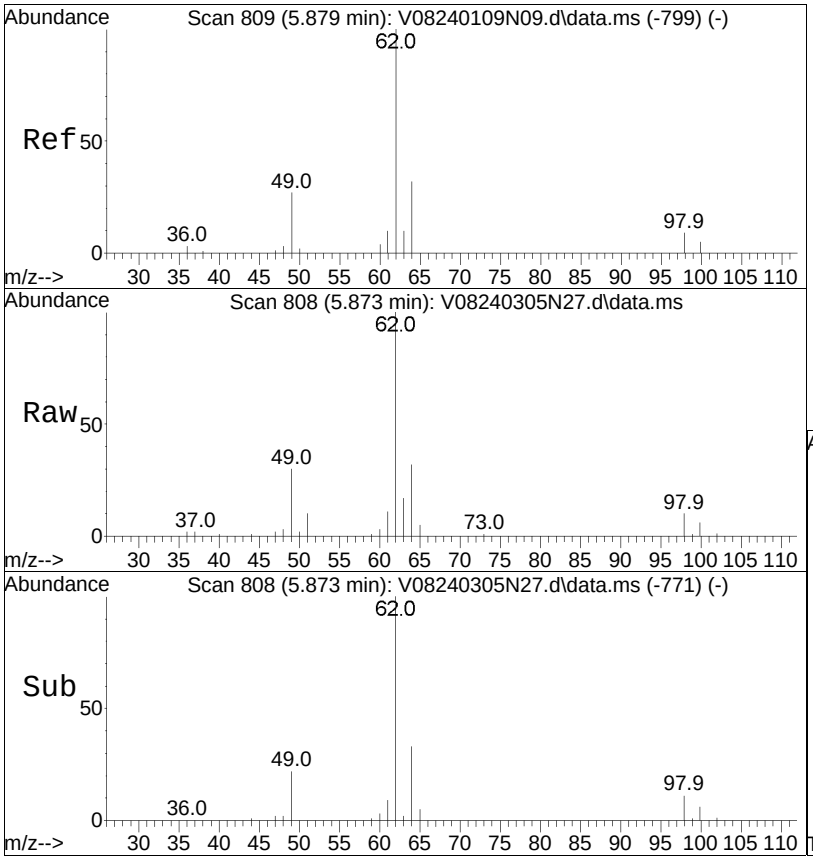


#41
Benzene
Concen: 12.99 ug/L
RT: 5.674 min Scan# 770
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 78 Resp: 238759

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.7	32.7
51	17.8	16.0	33.2
52	17.3	15.3	31.9

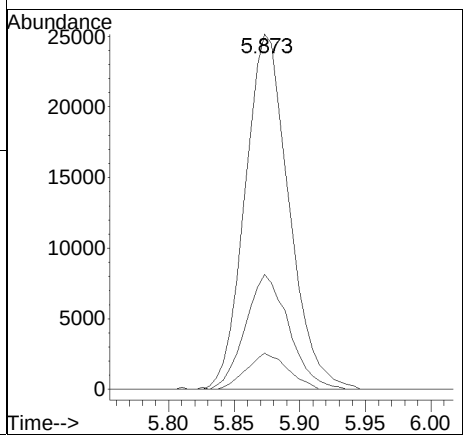


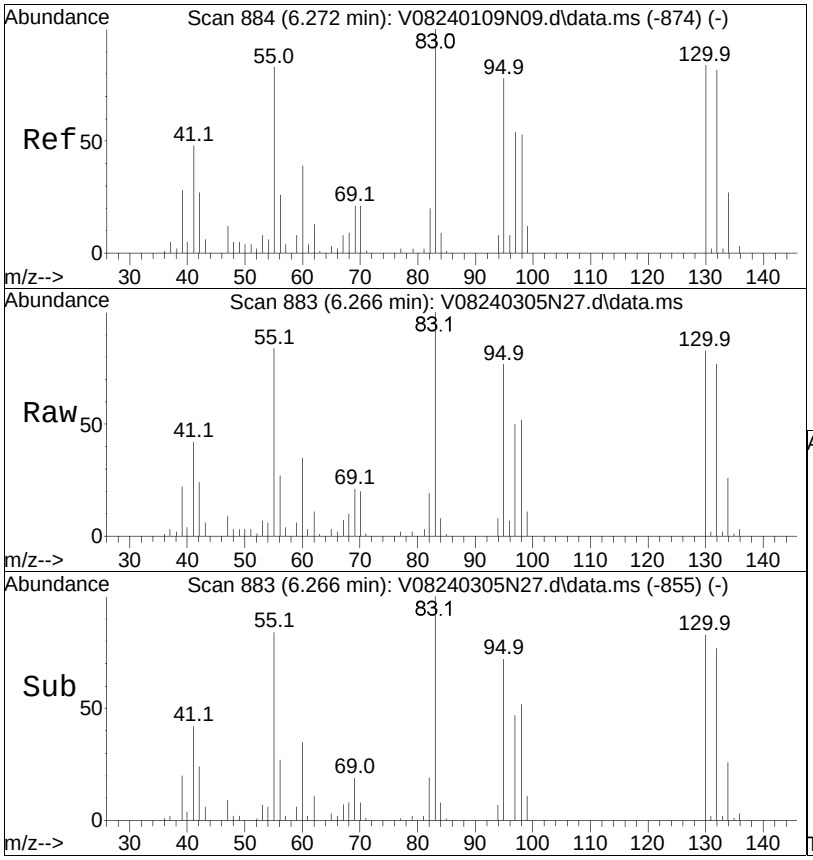


#44
1,2-Dichloroethane
Concen: 9.59 ug/L
RT: 5.873 min Scan# 808
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 62 Resp: 58492

Ion	Ratio	Lower	Upper
62	100		
64	32.2	11.2	51.2
98	9.6	0.0	26.1

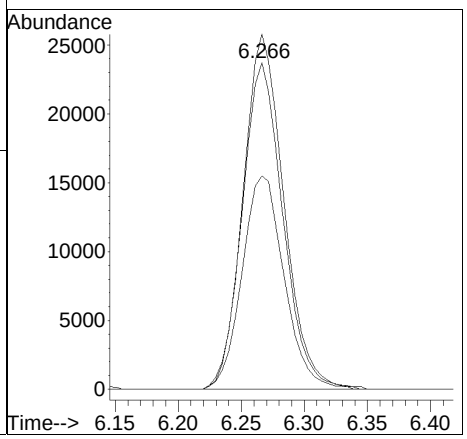


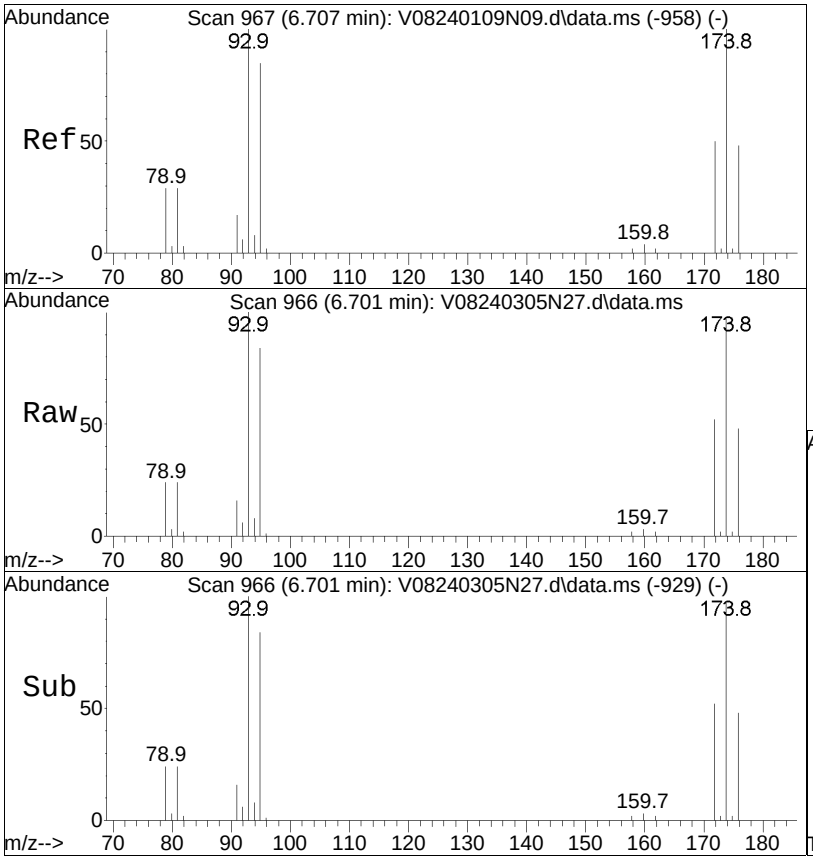


#48
Trichloroethene
Concen: 11.09 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 95 Resp: 53382

Ion	Ratio	Lower	Upper
95	100		
97	67.5	55.5	83.3
130	108.9	76.6	115.0

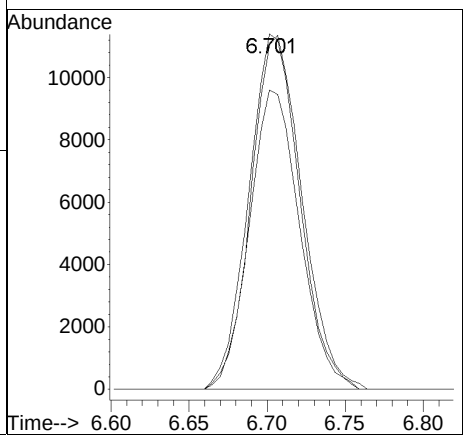


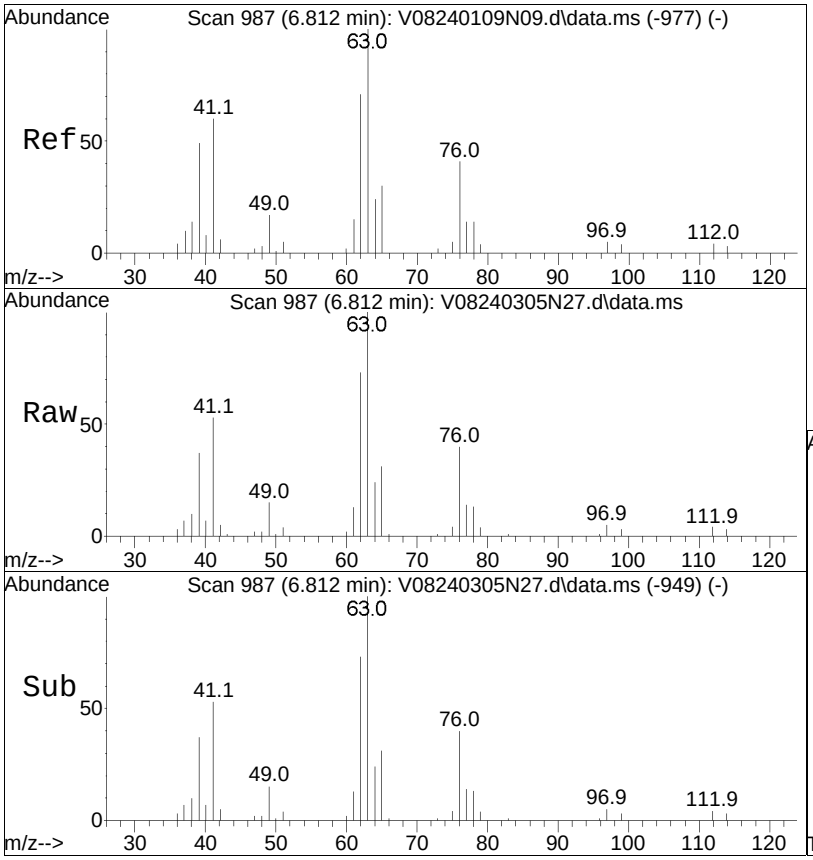


#50
Dibromomethane
Concen: 9.68 ug/L
RT: 6.701 min Scan# 966
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 93 Resp: 25889

Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.0	100.4
174	99.5	75.0	112.4

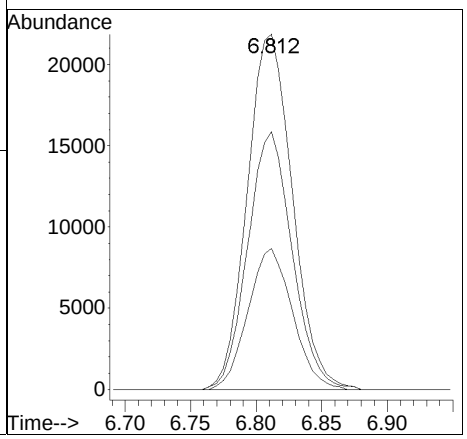


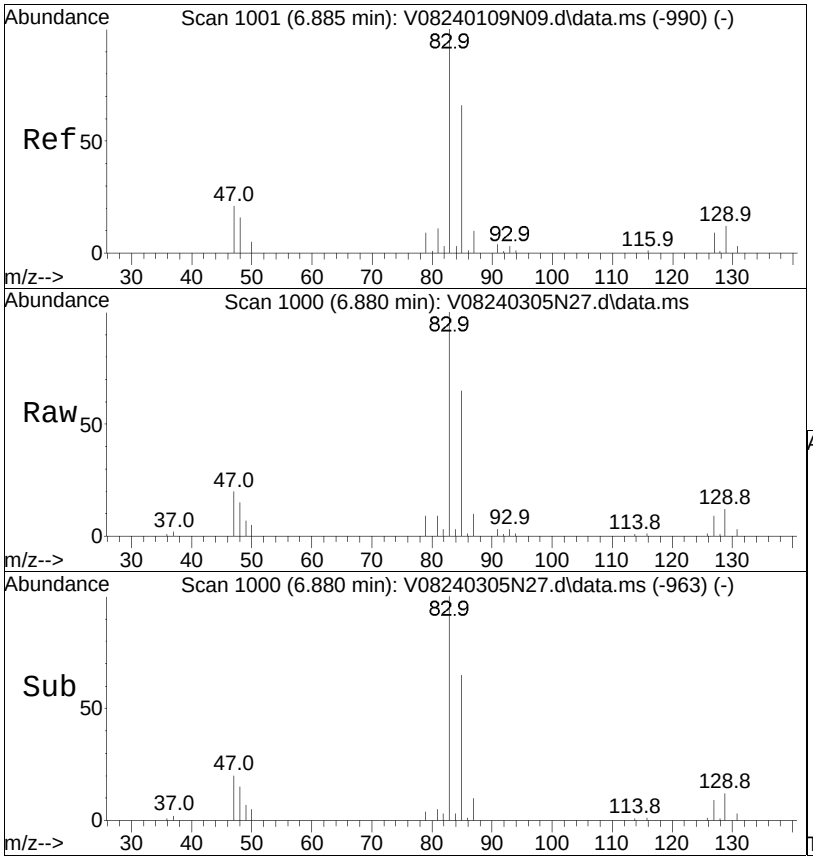


#51
1,2-Dichloropropane
Concen: 10.56 ug/L
RT: 6.812 min Scan# 987
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 63 Resp: 52499

Ion	Ratio	Lower	Upper
63	100		
62	71.4	58.6	87.8
76	38.9	38.0	57.0

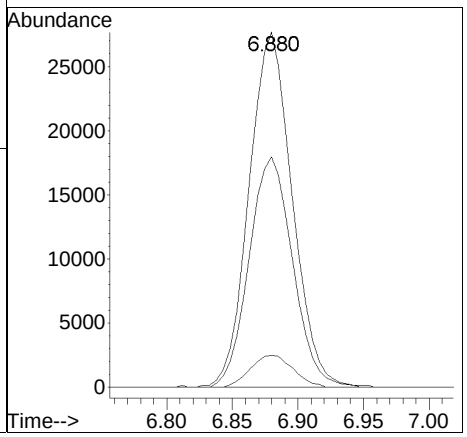


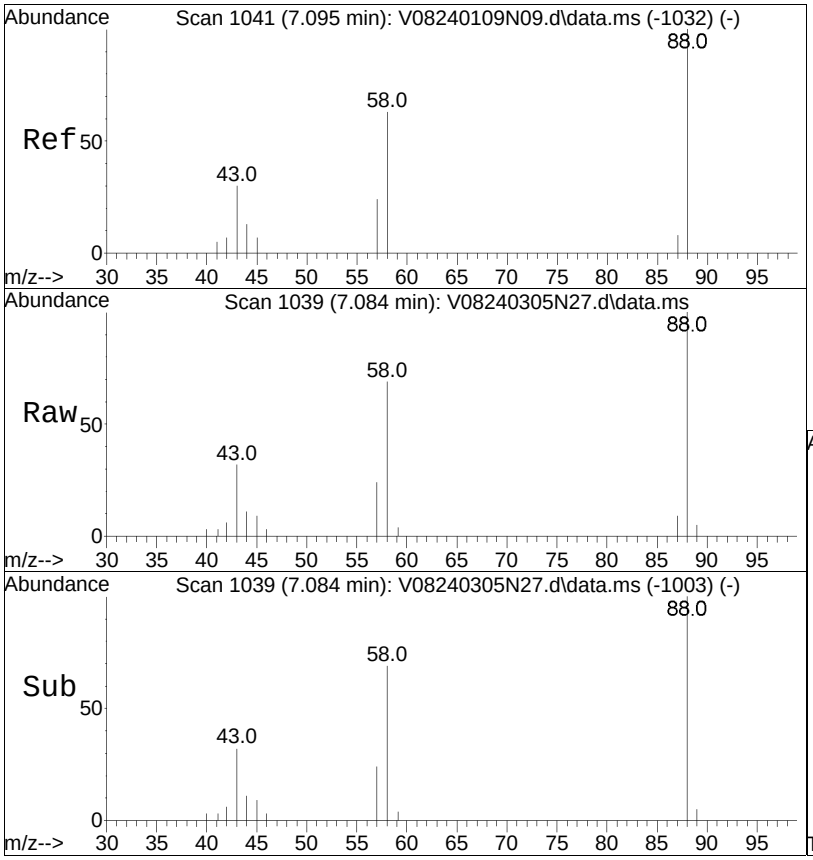


#54
Bromodichloromethane
Concen: 9.68 ug/L
RT: 6.880 min Scan# 1000
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 83 Resp: 63270

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.3	78.5
127	9.0	6.2	9.4

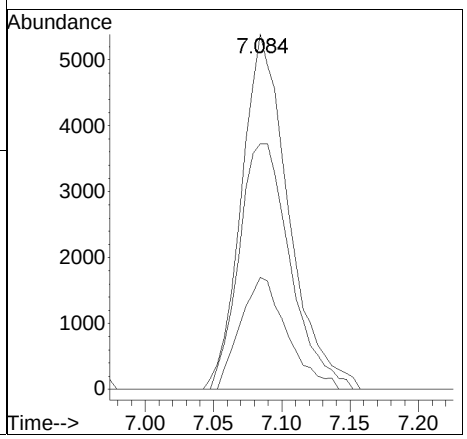


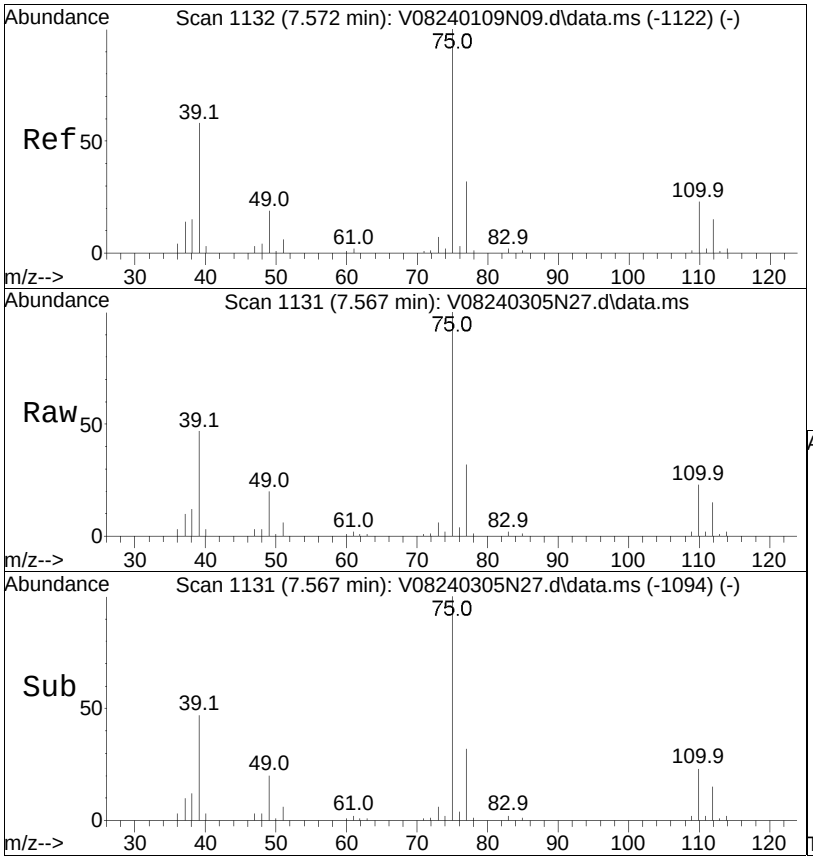


#57
1,4-Dioxane
Concen: 755.71 ug/L
RT: 7.084 min Scan# 1039
Delta R.T. -0.011 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 88 Resp: 12982

Ion	Ratio	Lower	Upper
88	100		
58	75.0	76.7	115.1#
43	31.3	36.2	54.2#

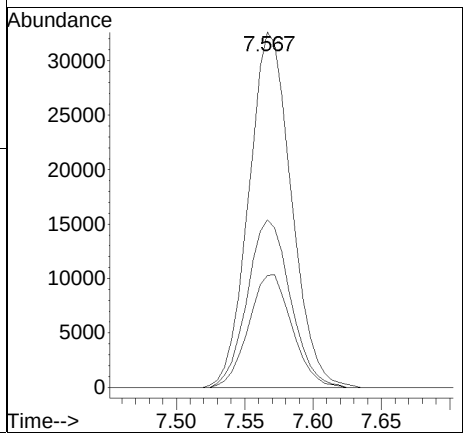


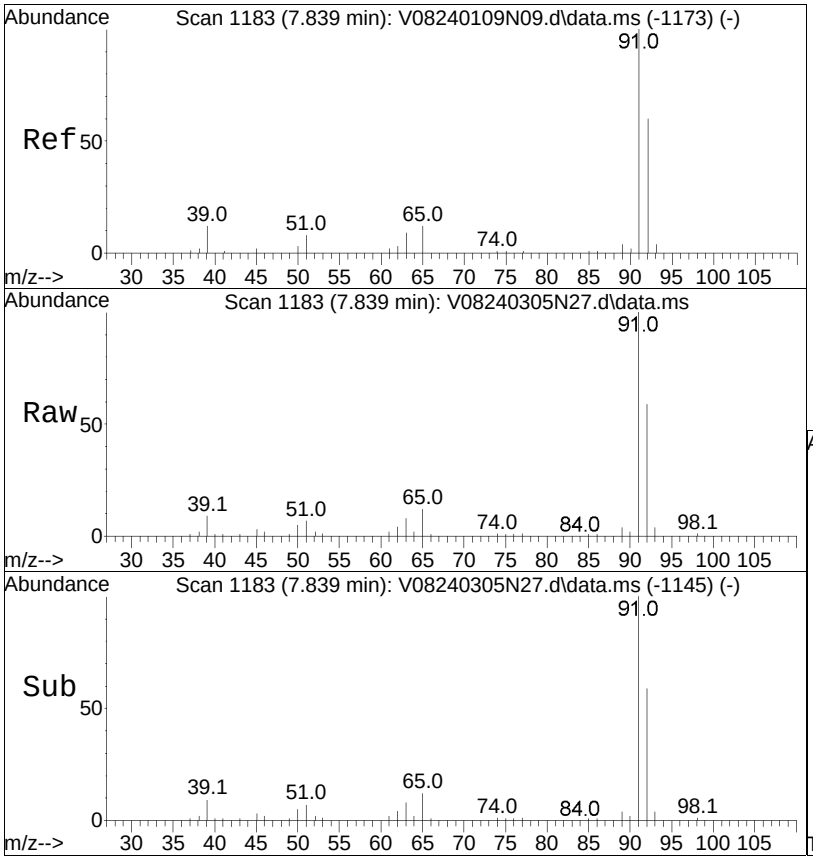


#58
cis-1,3-Dichloropropene
Concen: 9.29 ug/L
RT: 7.567 min Scan# 1131
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 75 Resp: 70632

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.4
39	47.8	50.1	75.1#

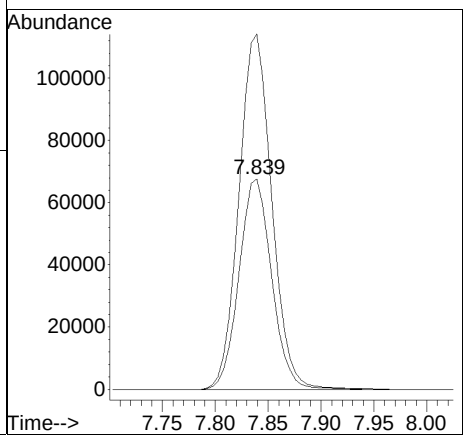


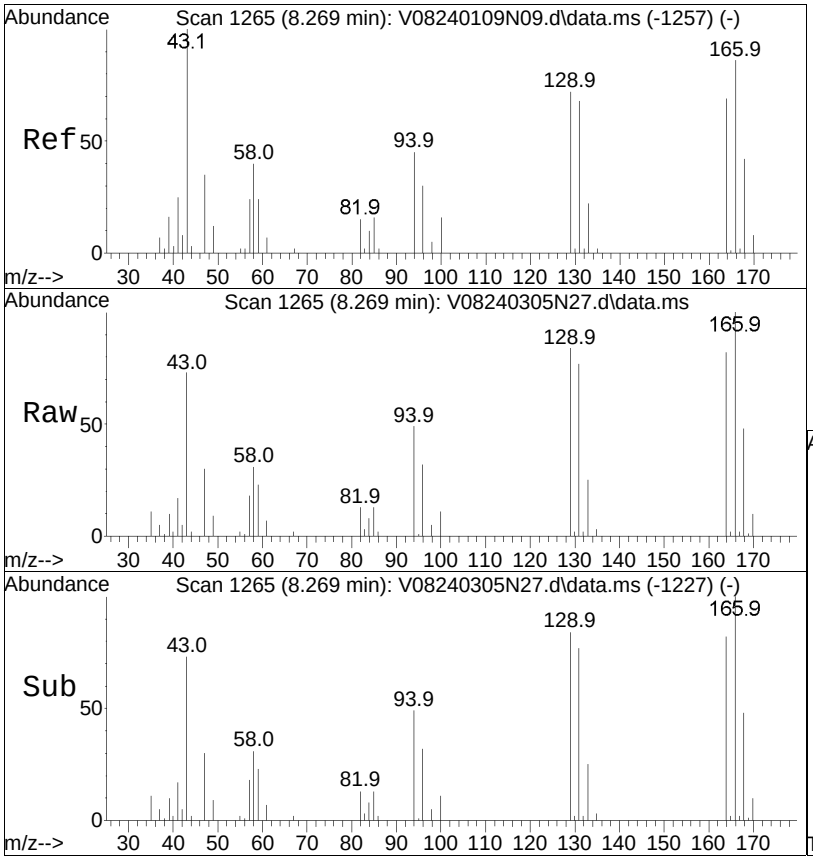


#61
Toluene
Concen: 12.39 ug/L
RT: 7.839 min Scan# 1183
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 92 Resp: 145454

Ion	Ratio	Lower	Upper
92	100		
91	169.6	139.8	209.6

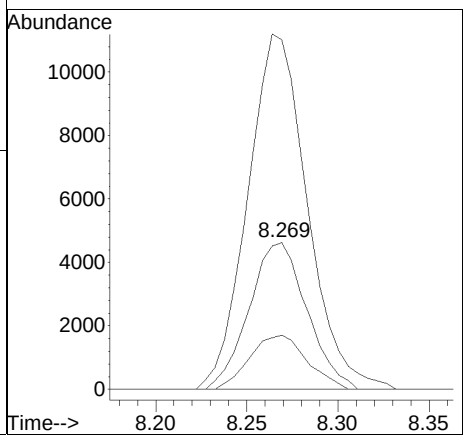


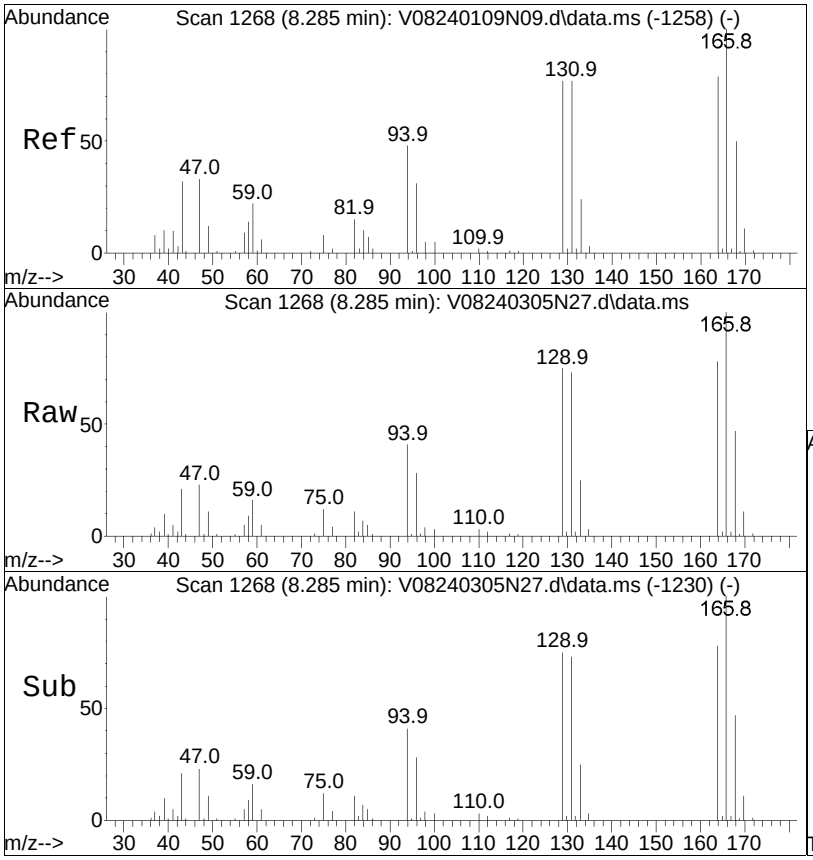


#62
4-Methyl-2-pentanone
Concen: 8.89 ug/L
RT: 8.269 min Scan# 1265
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 58 Resp: 10214

Ion	Ratio	Lower	Upper
58	100		
100	36.7	20.2	30.2#
43	249.3	196.6	295.0

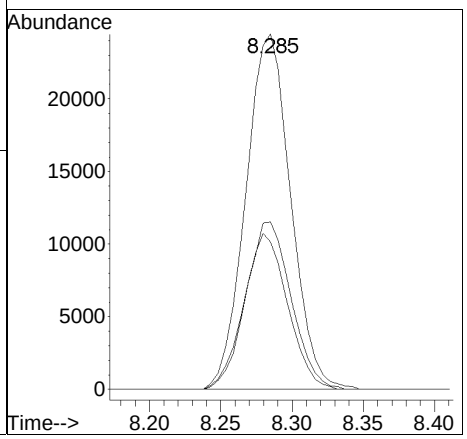


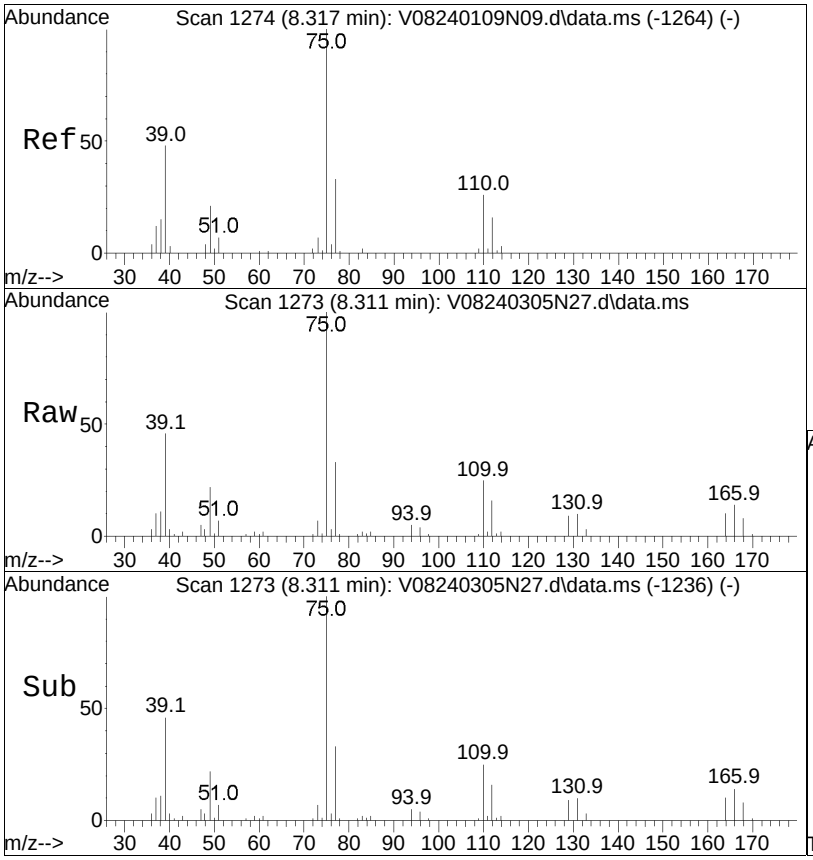


#63
Tetrachloroethene
Concen: 10.70 ug/L
RT: 8.285 min Scan# 1268
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:166 Resp: 53712

Ion	Ratio	Lower	Upper
166	100		
168	47.4	28.2	68.2
94	42.9	38.4	78.4

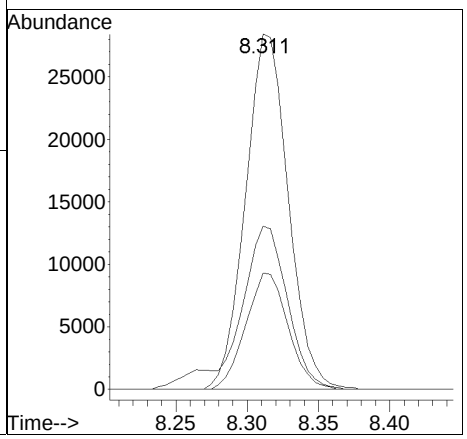


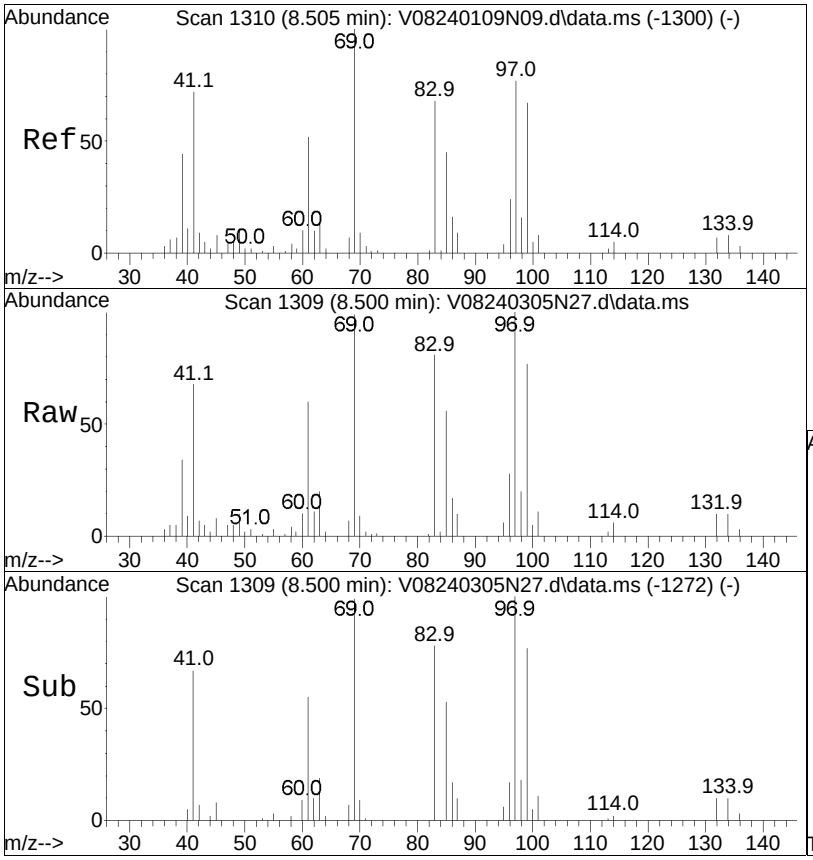


#65
trans-1,3-Dichloropropene
Concen: 9.17 ug/L
RT: 8.311 min Scan# 1273
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 75 Resp: 59423

Ion	Ratio	Lower	Upper
75	100		
77	32.4	12.4	52.4
39	51.6	42.8	82.8

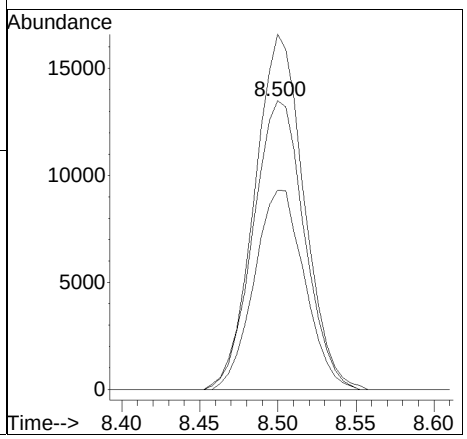


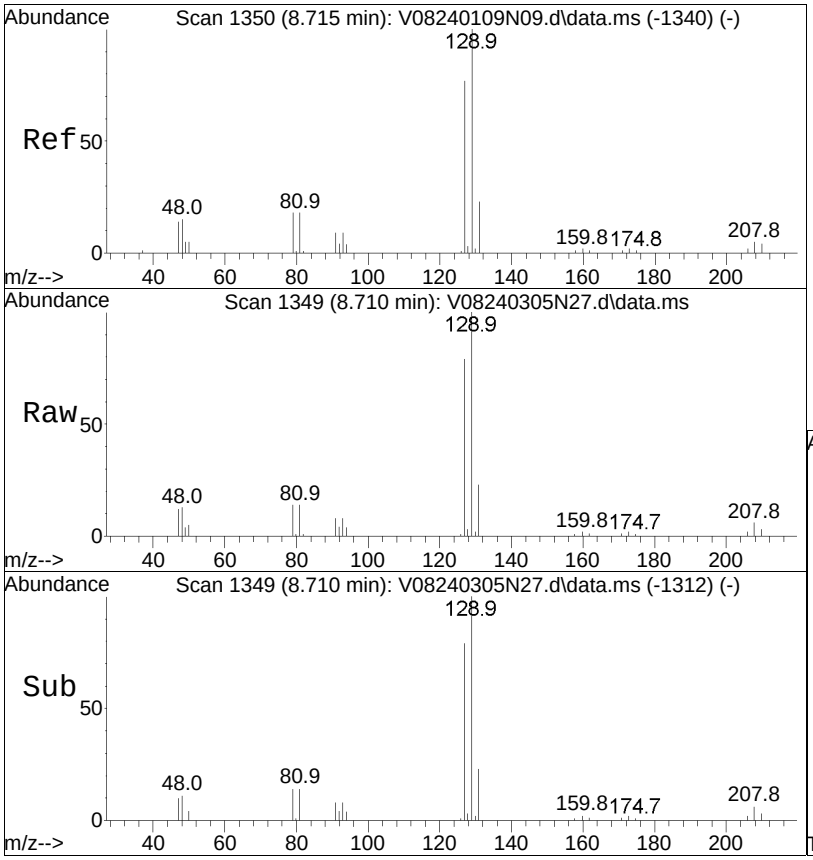


#68
1,1,2-Trichloroethane
Concen: 10.39 ug/L
RT: 8.500 min Scan# 1309
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 83 Resp: 30702

Ion	Ratio	Lower	Upper
83	100		
97	119.0	89.8	129.8
85	68.1	44.4	84.4

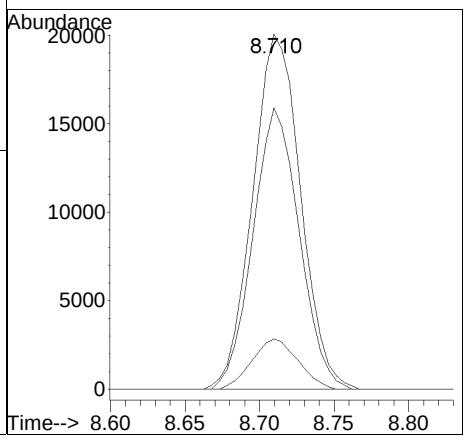


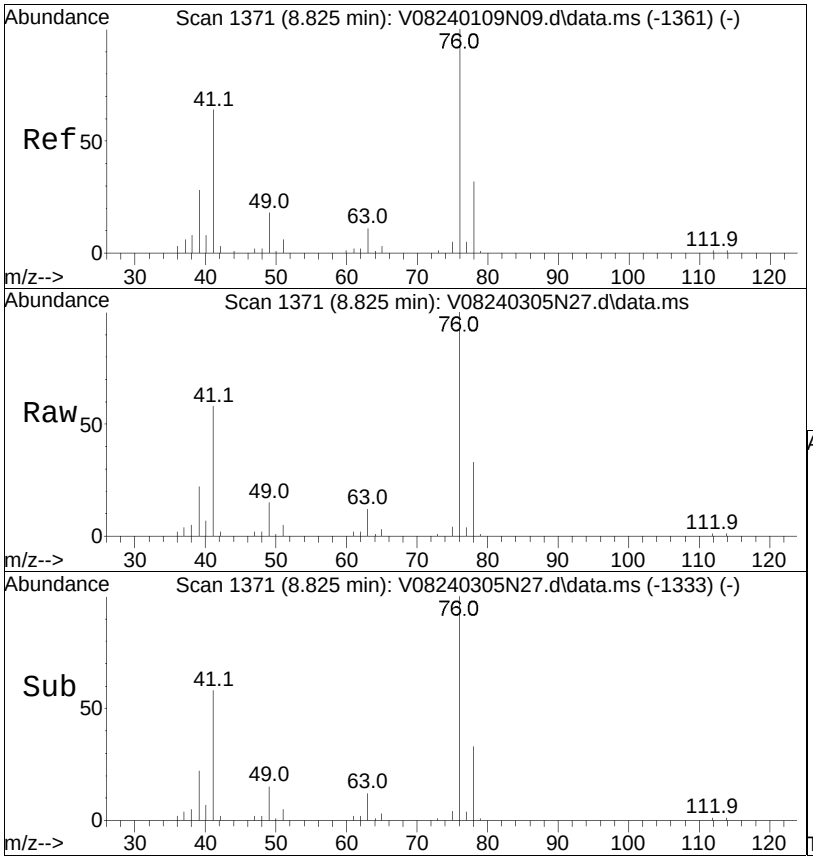


#69
Chlorodibromomethane
Concen: 9.54 ug/L
RT: 8.710 min Scan# 1349
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:129 Resp: 44898

Ion	Ratio	Lower	Upper
129	100		
81	13.7	2.9	42.9
127	76.5	57.8	97.8

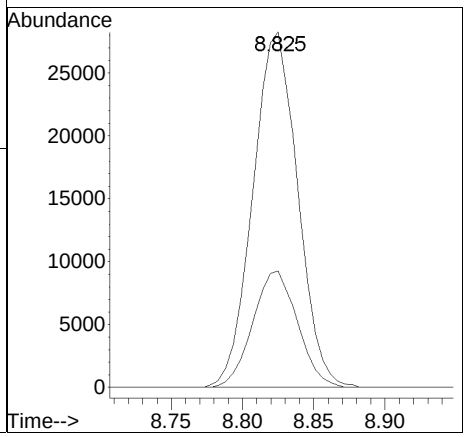


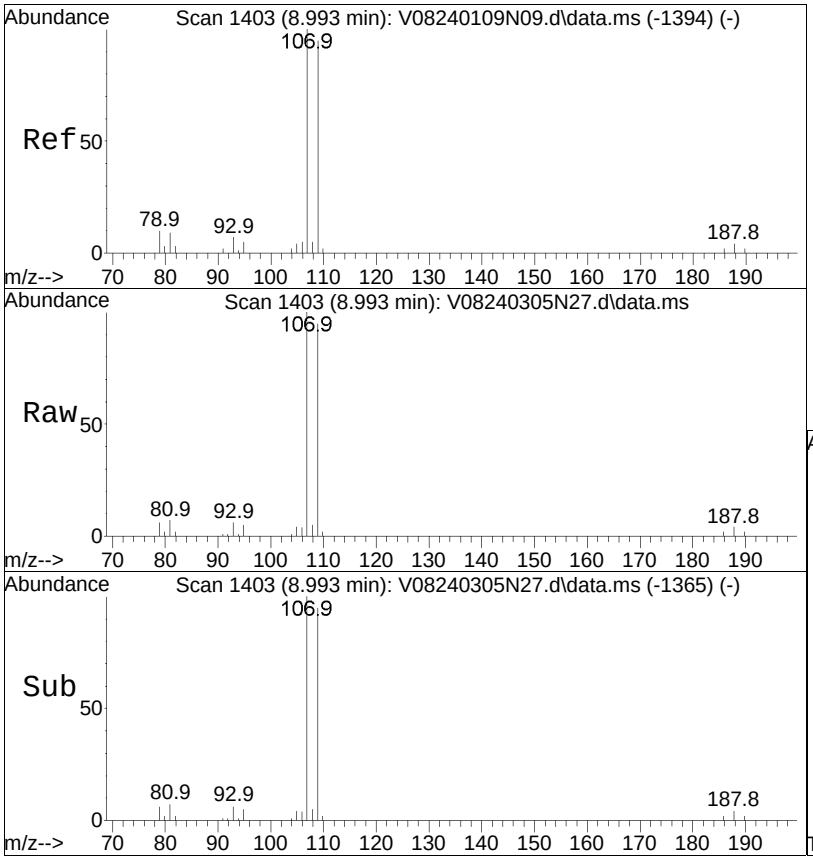


#70
1,3-Dichloropropane
Concen: 10.05 ug/L
RT: 8.825 min Scan# 1371
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 76 Resp: 61834

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

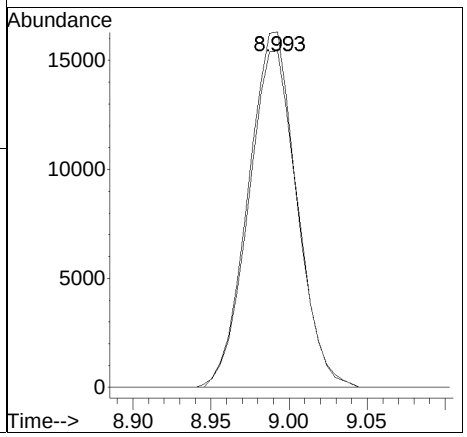


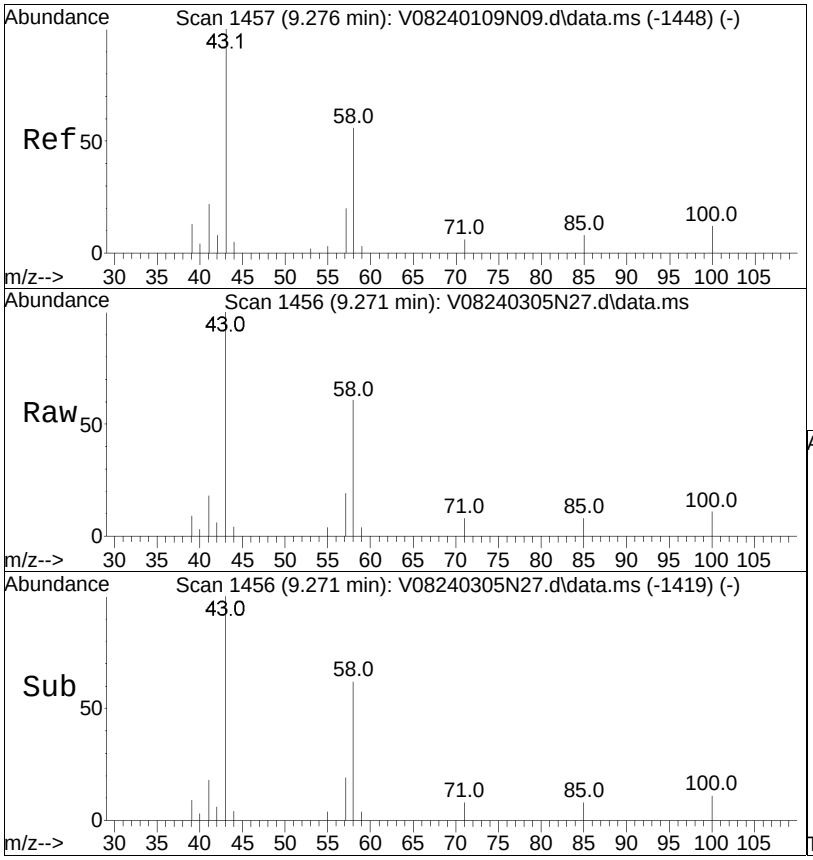


#71
1,2-Dibromoethane
Concen: 9.88 ug/L
RT: 8.993 min Scan# 1403
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:107 Resp: 35355

Ion	Ratio	Lower	Upper
107	100		
109	95.2	74.3	111.5

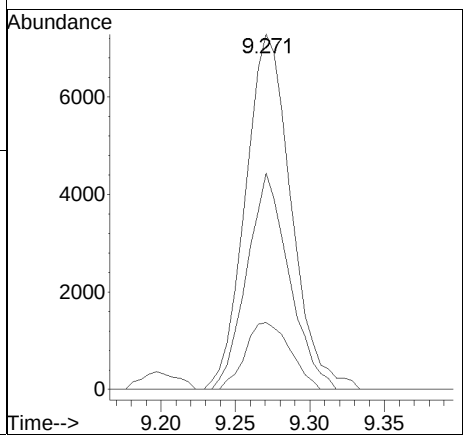


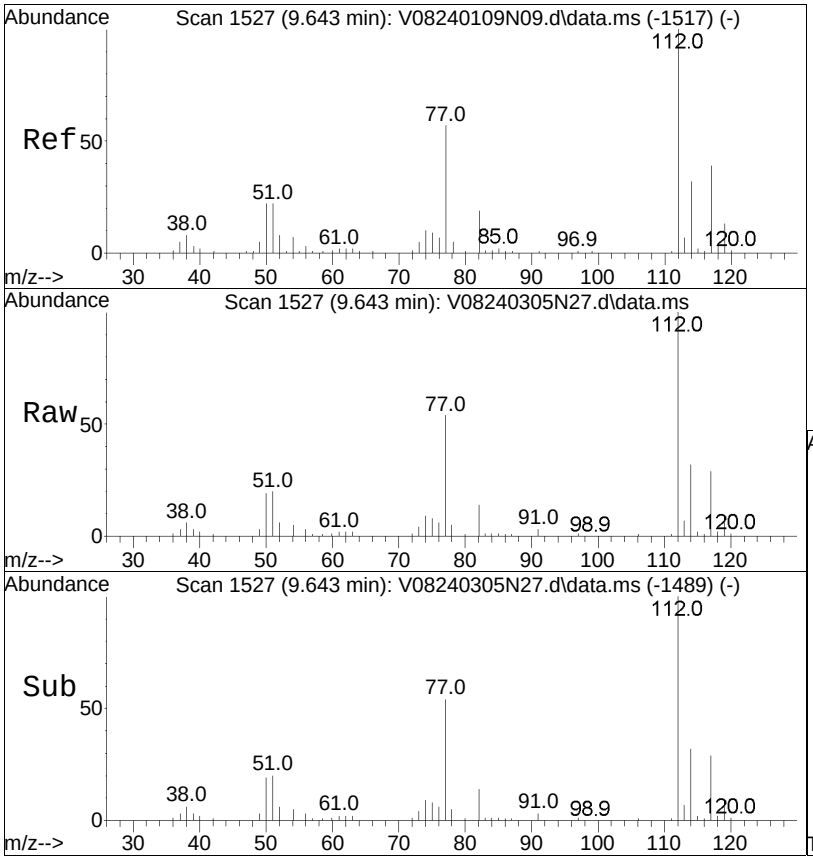


#72
2-Hexanone
Concen: 7.98 ug/L
RT: 9.271 min Scan# 1456
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 43 Resp: 15563

Ion	Ratio	Lower	Upper
43	100		
58	56.2	41.2	61.8
57	18.5	17.2	25.8

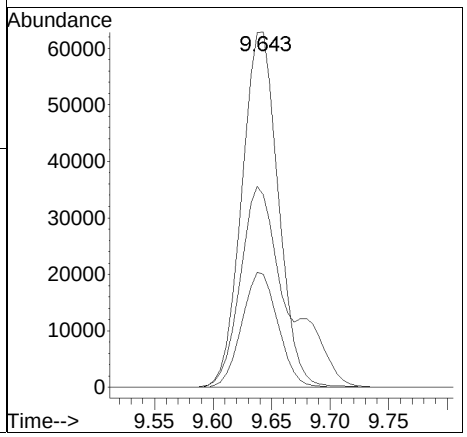


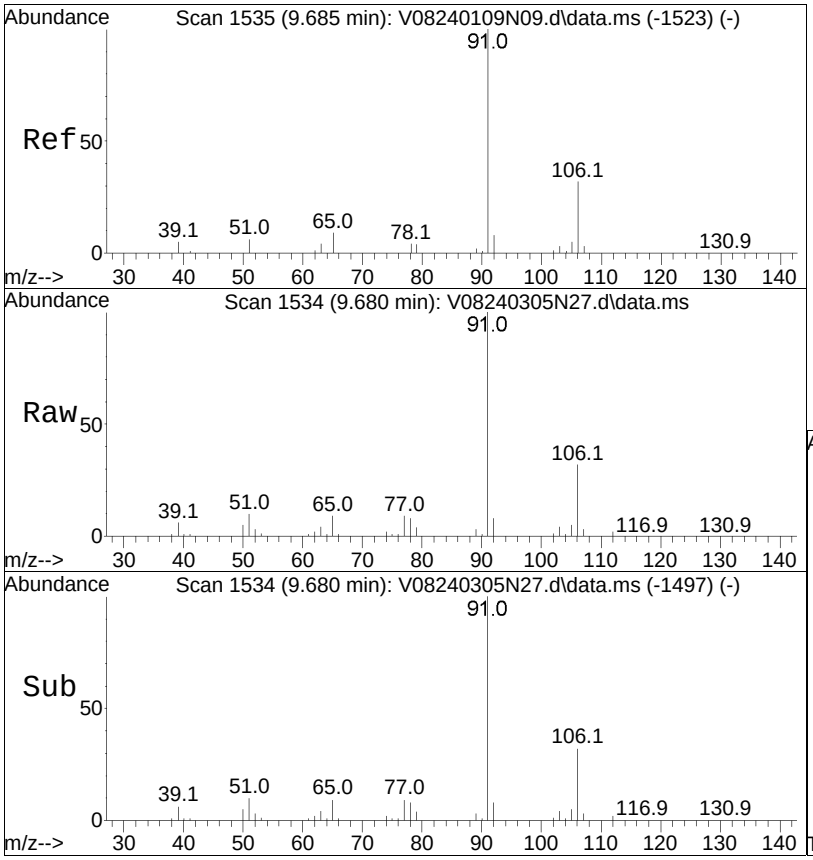


#73
Chlorobenzene
Concen: 9.92 ug/L
RT: 9.643 min Scan# 1527
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:112 Resp: 136371

Ion	Ratio	Lower	Upper
112	100		
77	73.6	55.4	83.0
114	32.1	25.4	38.2

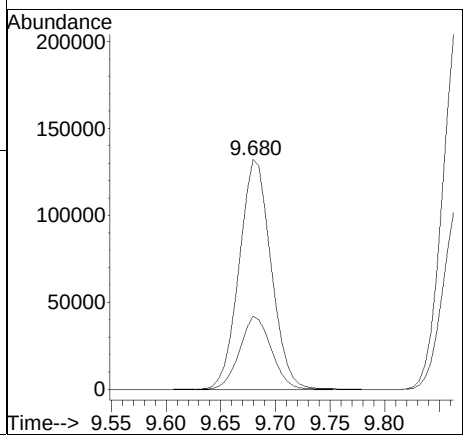


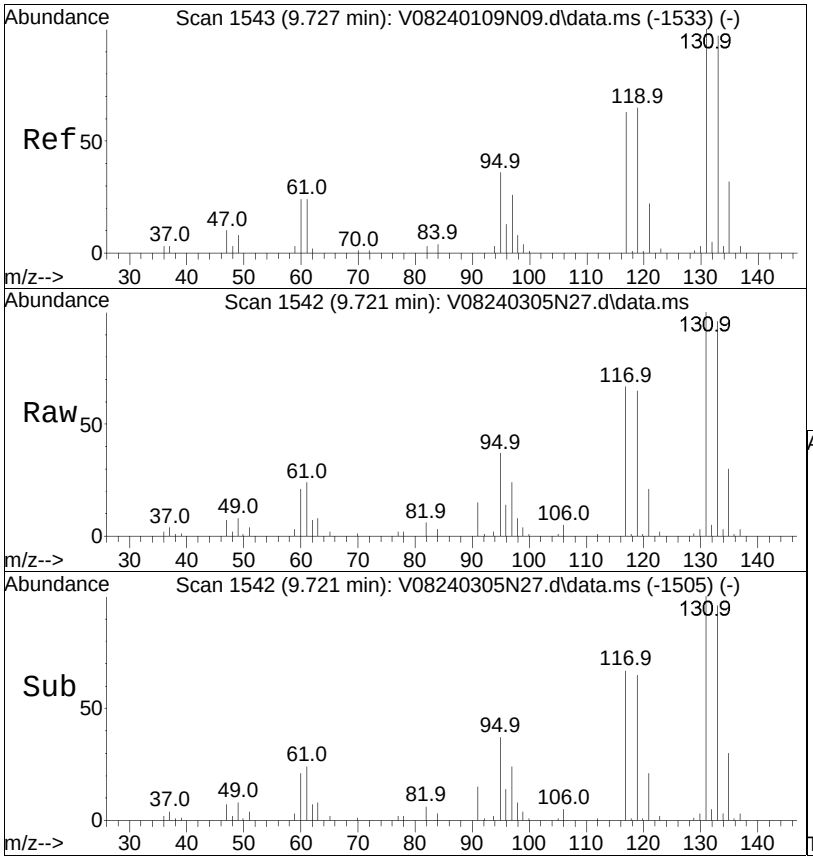


#74
Ethylbenzene
Concen: 11.82 ug/L
RT: 9.680 min Scan# 1534
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 91 Resp: 269030

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.3	36.5

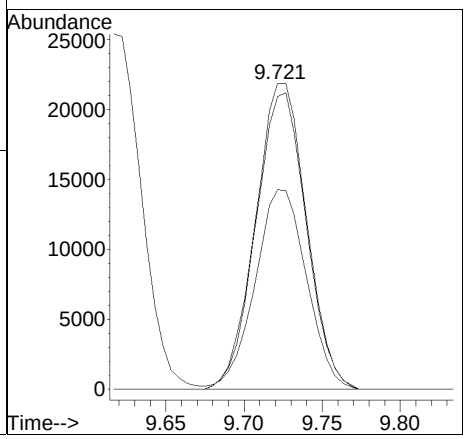


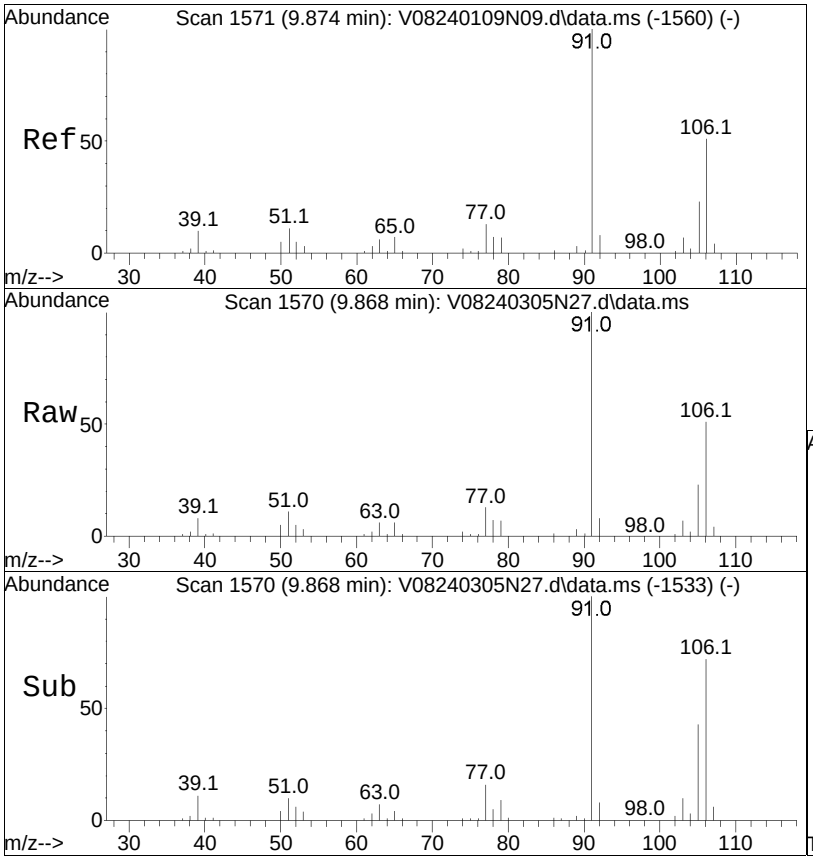


#75
1,1,1,2-Tetrachloroethane
Concen: 9.88 ug/L
RT: 9.721 min Scan# 1542
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:131 Resp: 49863

Ion	Ratio	Lower	Upper
131	100		
133	95.8	81.0	121.0
119	65.8	41.3	81.3

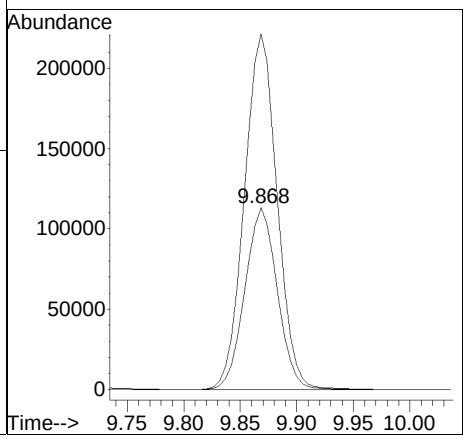


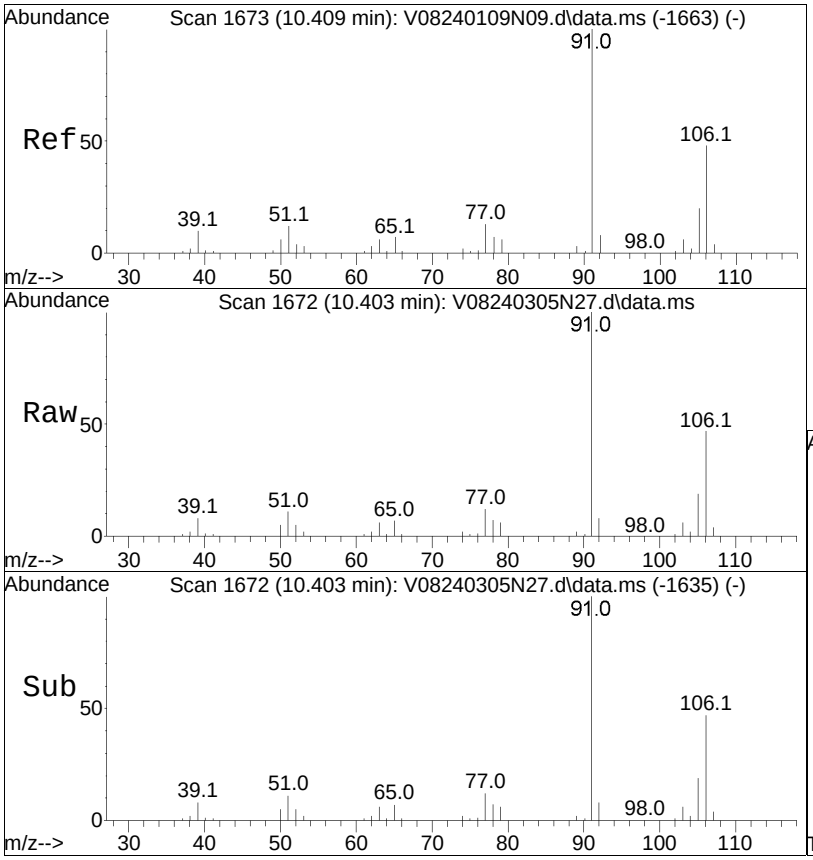


#76
p/m Xylene
Concen: 24.96 ug/L
RT: 9.868 min Scan# 1570
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:106 Resp: 225627

Ion	Ratio	Lower	Upper
106	100		
91	197.3	166.4	249.6

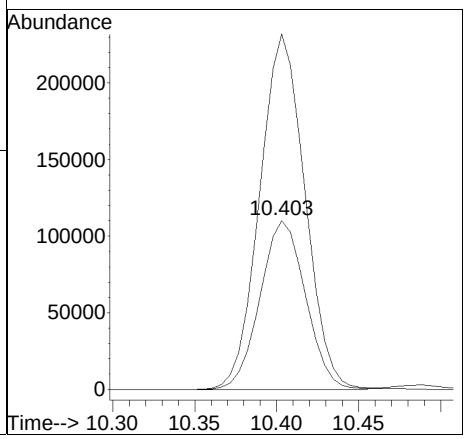


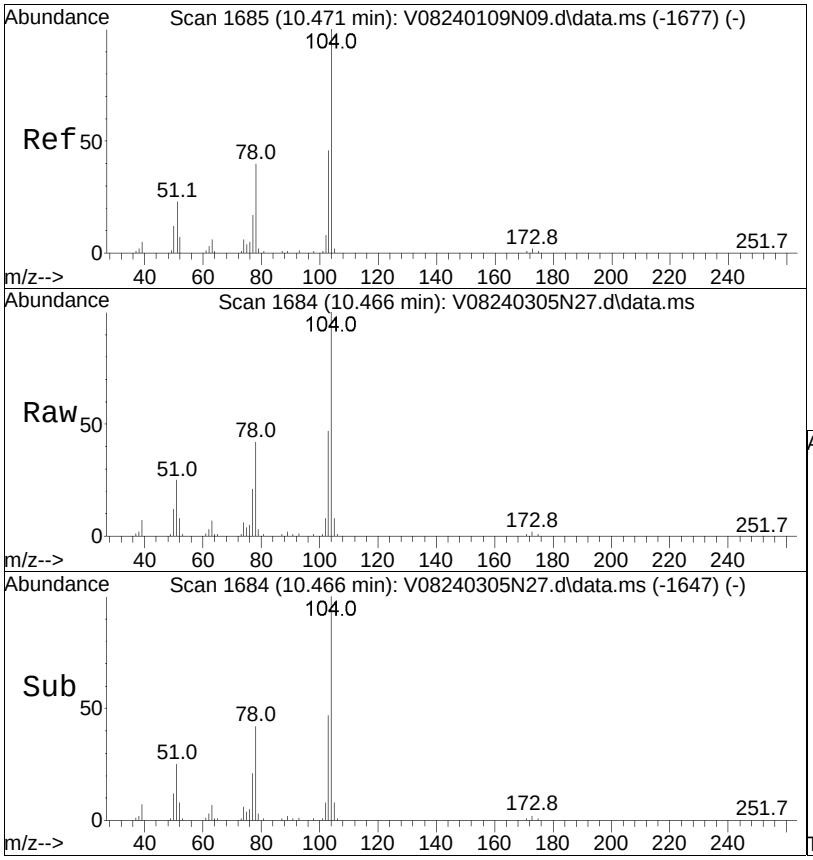


#77
o Xylene
Concen: 23.73 ug/L
RT: 10.403 min Scan# 1672
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:106 Resp: 212255

Ion	Ratio	Lower	Upper
106	100		
91	209.4	182.6	273.8

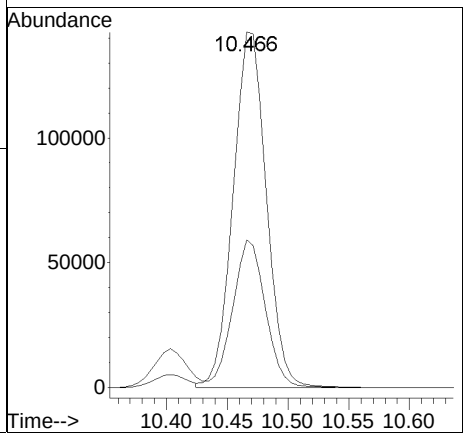


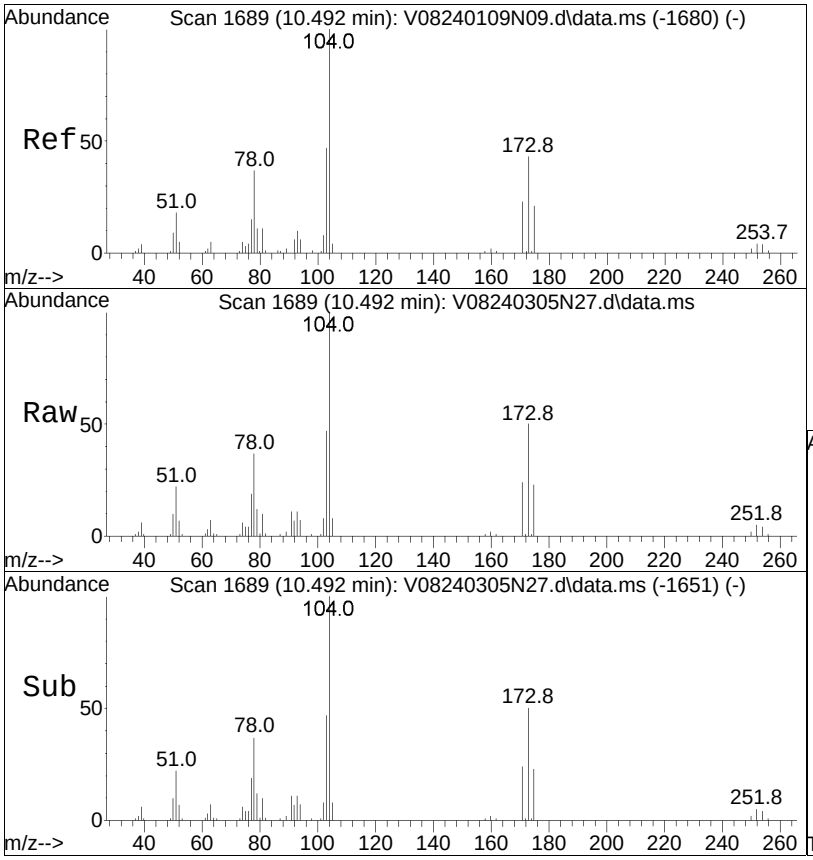


#78
Styrene
Concen: 18.29 ug/L
RT: 10.466 min Scan# 1684
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:104 Resp: 270743

Ion	Ratio	Lower	Upper
104	100		
78	40.5	39.8	59.6

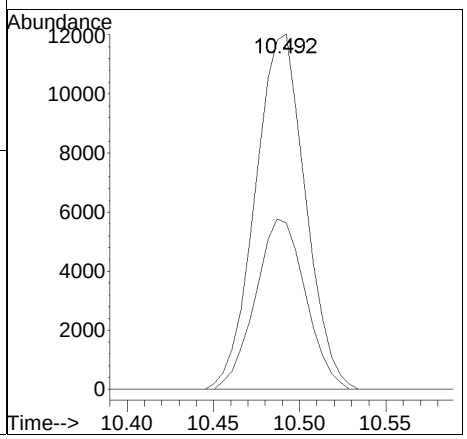


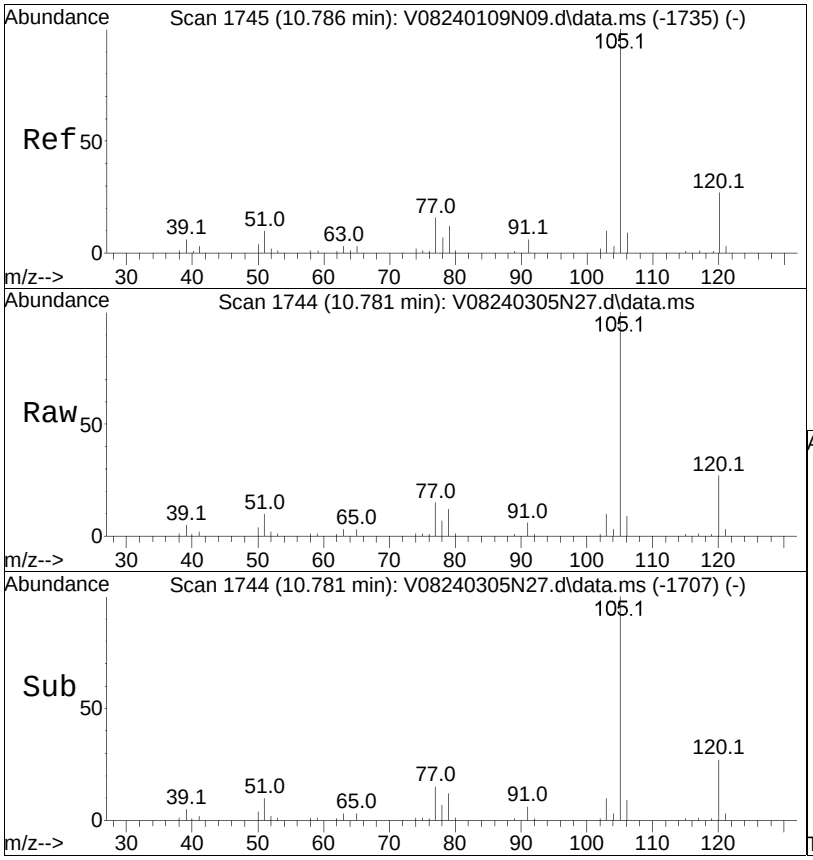


#80
Bromoform
Concen: 9.26 ug/L
RT: 10.492 min Scan# 1689
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:173 Resp: 24315

Ion	Ratio	Lower	Upper
173	100		
175	47.9	31.5	71.5

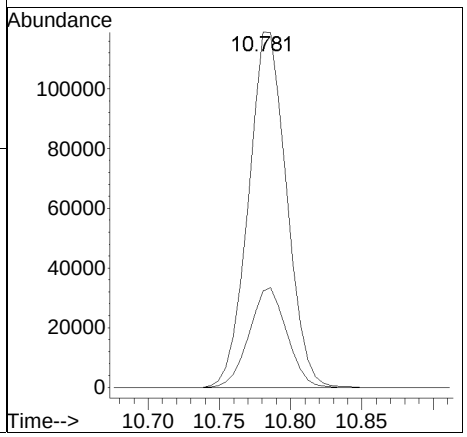


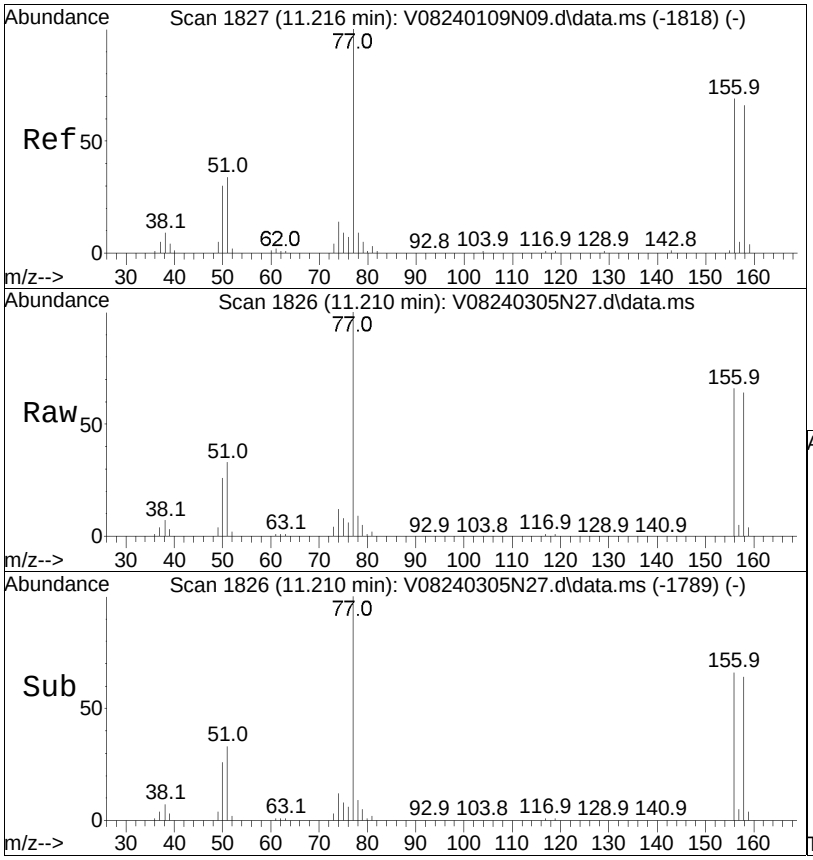


#82
Isopropylbenzene
Concen: 10.06 ug/L
RT: 10.781 min Scan# 1744
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:105 Resp: 220926

Ion	Ratio	Lower	Upper
105	100		
120	27.6	4.8	44.8

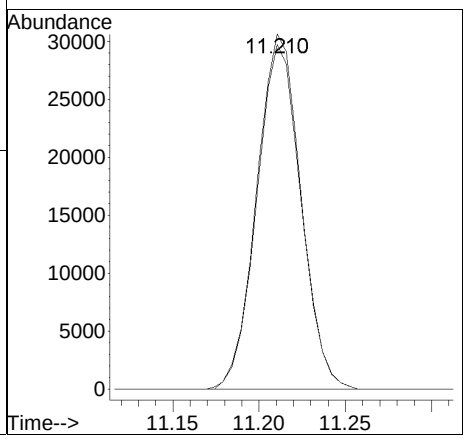


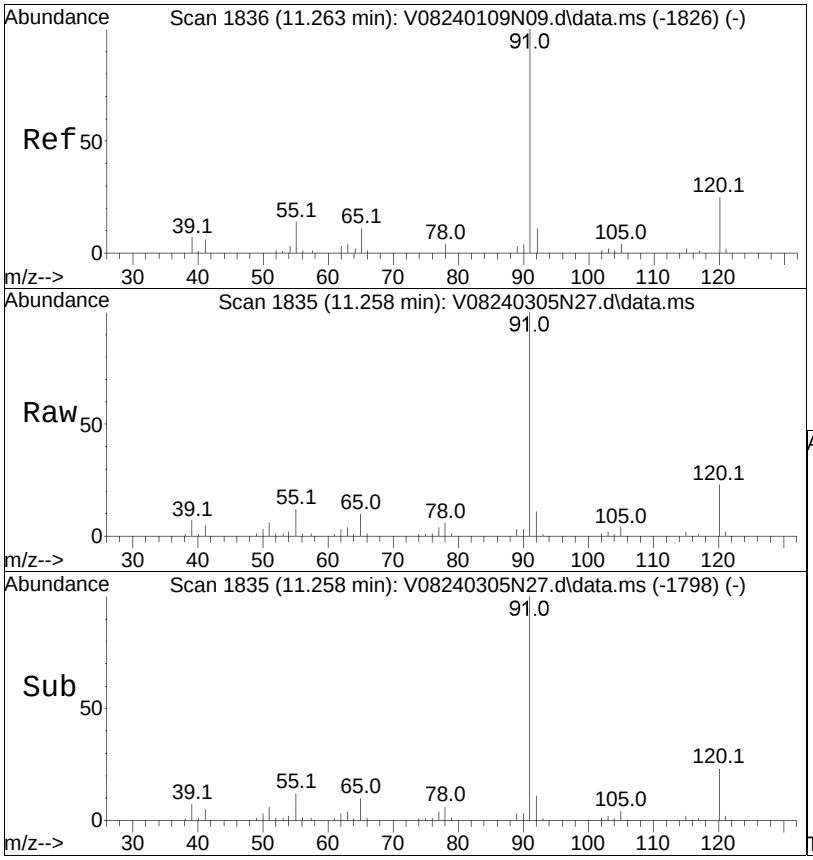


#84
Bromobenzene
Concen: 9.85 ug/L
RT: 11.210 min Scan# 1826
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:156 Resp: 54721

Ion	Ratio	Lower	Upper
156	100		
158	96.7	75.9	113.9

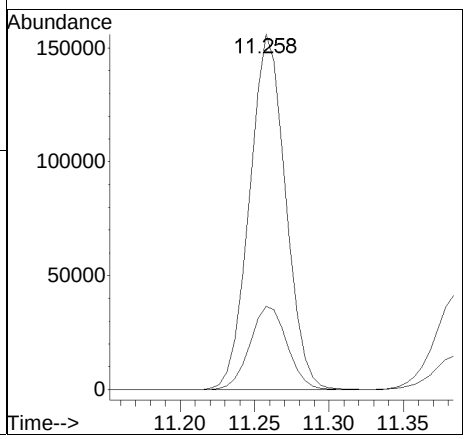


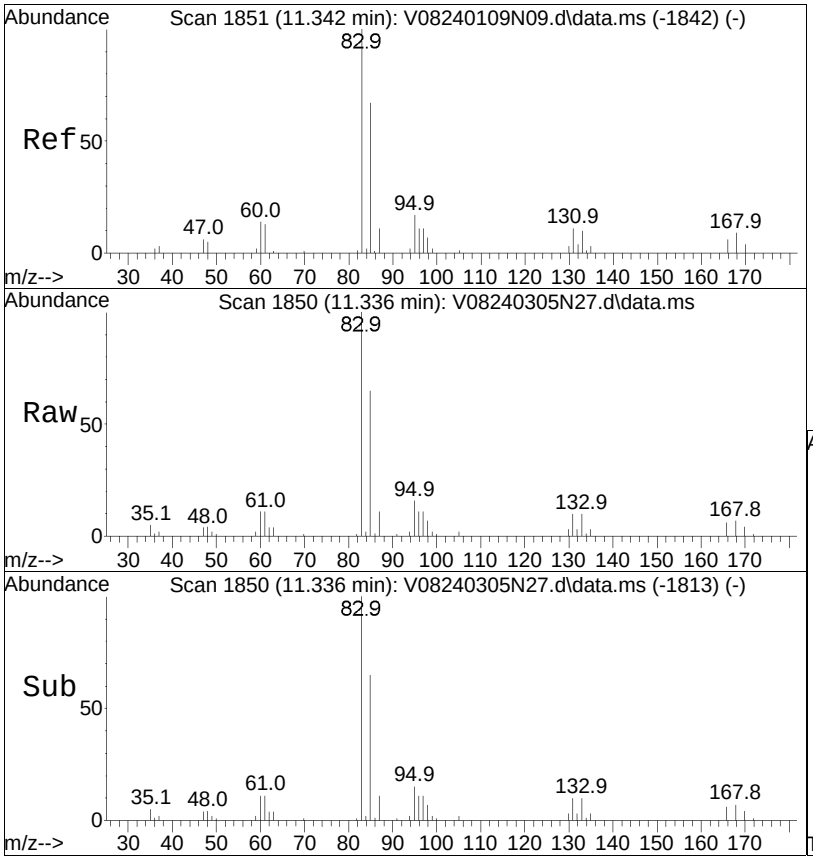


#85
n-Propylbenzene
Concen: 10.15 ug/L
RT: 11.258 min Scan# 1835
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 91 Resp: 261412

Ion	Ratio	Lower	Upper
91	100		
120	24.0	17.0	25.6

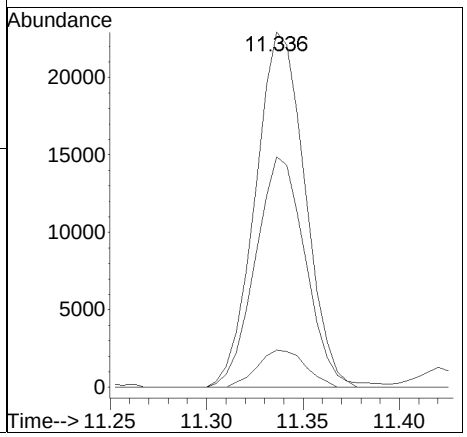


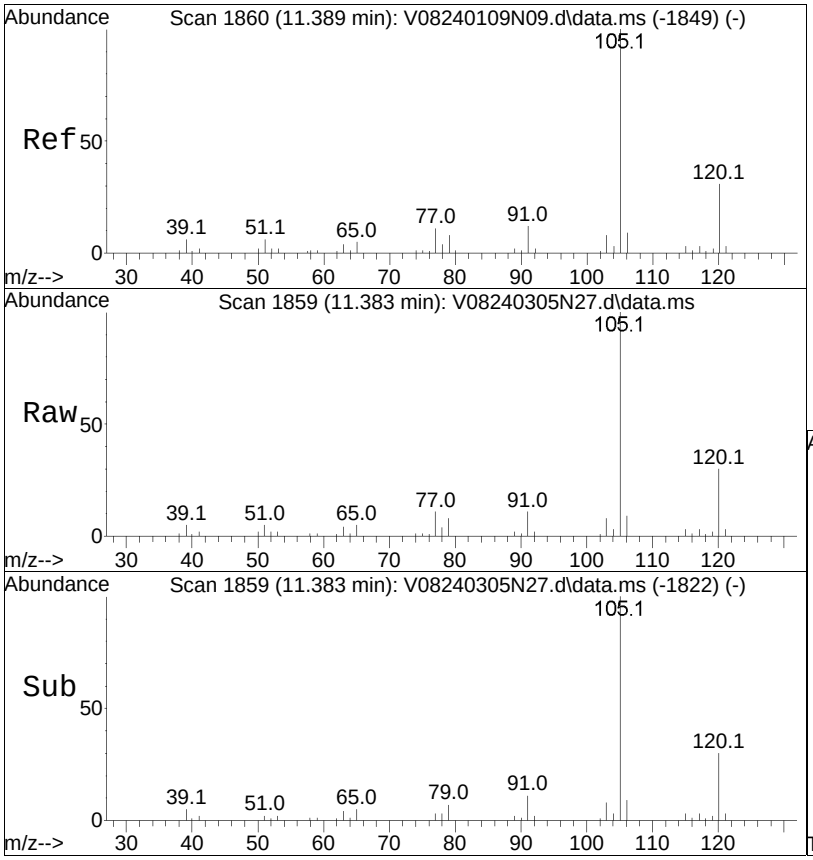


#87
1,1,2,2-Tetrachloroethane
Concen: 10.38 ug/L
RT: 11.336 min Scan# 1850
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 83 Resp: 41080

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	30.4
85	66.0	45.4	85.4

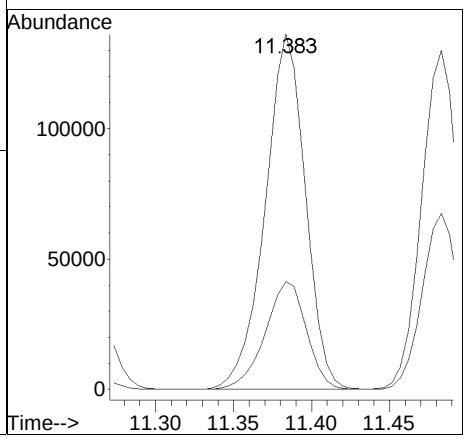


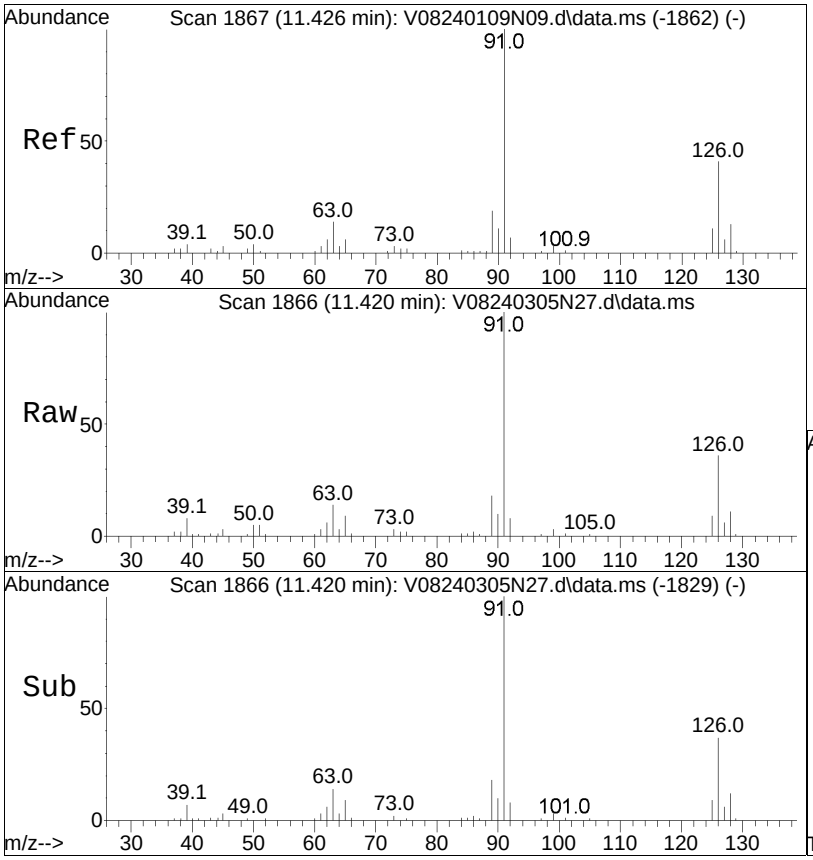


#88
4-Ethyltoluene
Concen: 11.04 ug/L
RT: 11.383 min Scan# 1859
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:105 Resp: 243834

Ion	Ratio	Lower	Upper
105	100		
120	31.1	18.1	37.7

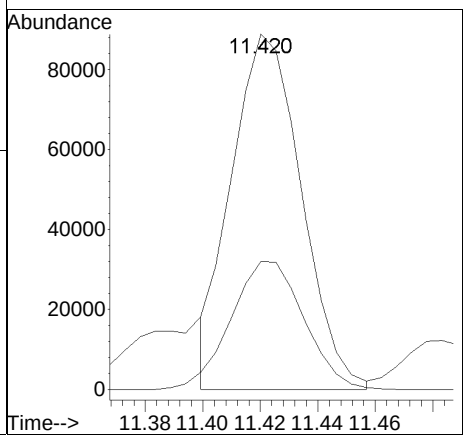


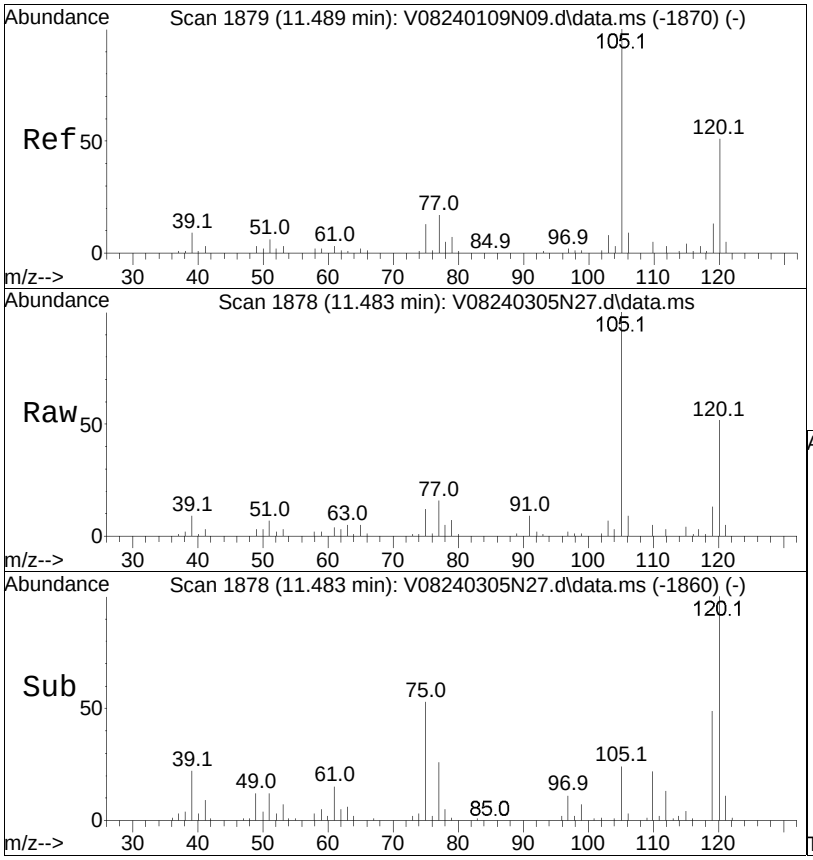


#89
2-Chlorotoluene
Concen: 9.64 ug/L M6
RT: 11.420 min Scan# 1866
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 91 Resp: 150497

Ion	Ratio	Lower	Upper
91	100		
126	37.6	21.5	32.3#

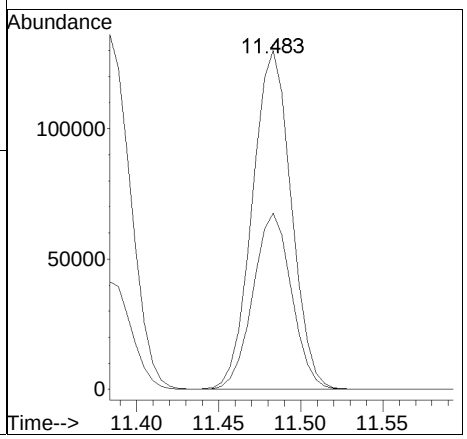


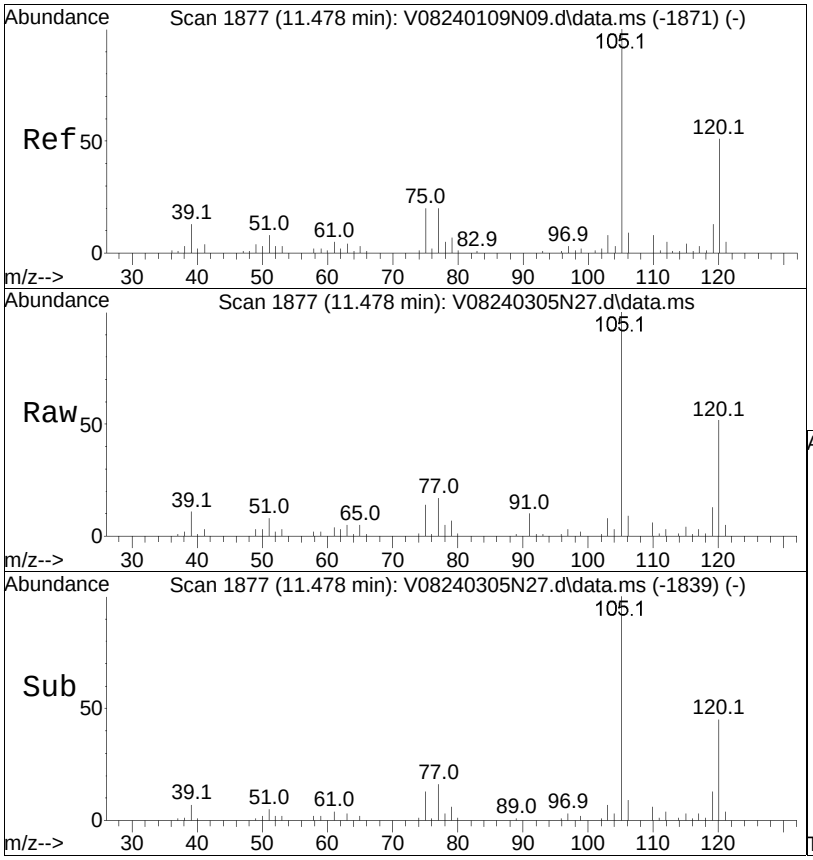


#90
1,3,5-Trimethylbenzene
Concen: 11.29 ug/L
RT: 11.483 min Scan# 1878
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:105 Resp: 214920

Ion	Ratio	Lower	Upper
105	100		
120	51.5	34.8	52.2

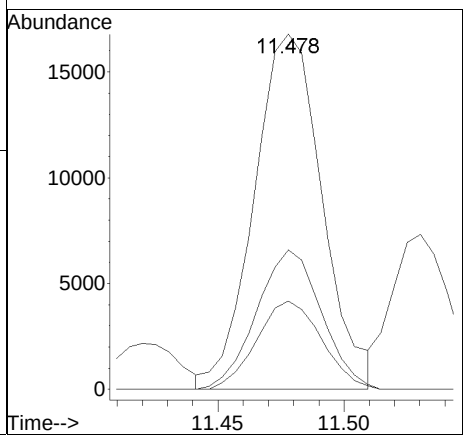


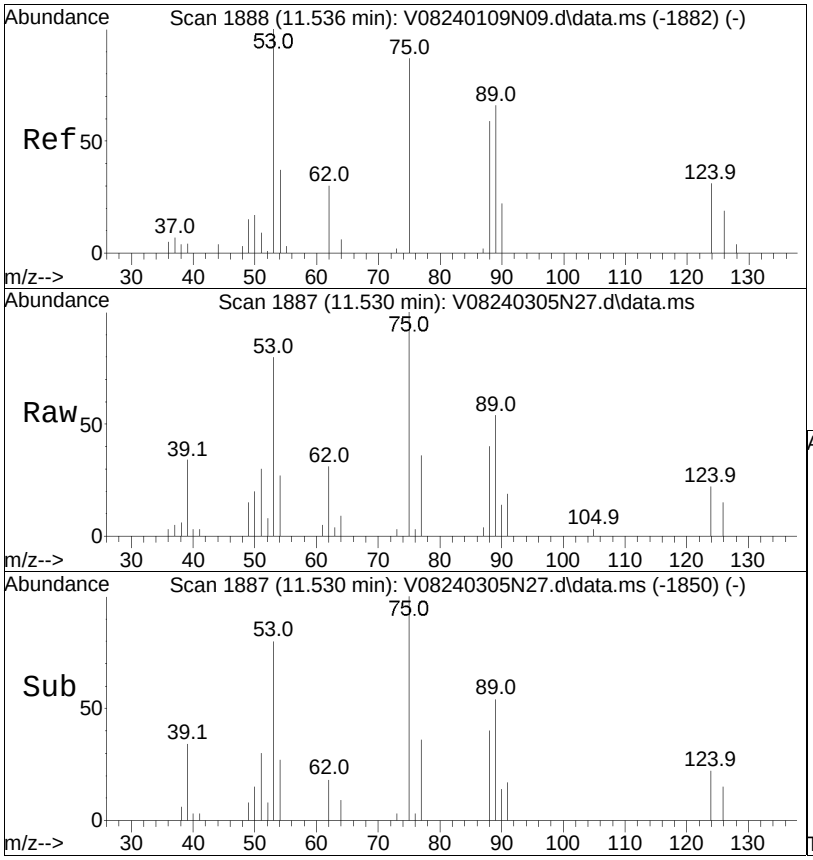


#91
1,2,3-Trichloropropane
Concen: 9.77 ug/L
RT: 11.478 min Scan# 1877
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 75 Resp: 31512

Ion	Ratio	Lower	Upper
75	100		
110	37.3	25.4	52.8
112	23.8	15.6	32.4

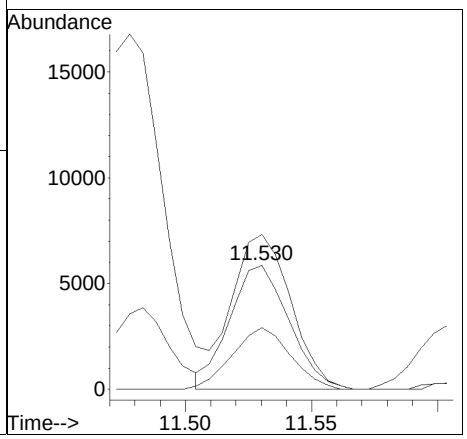


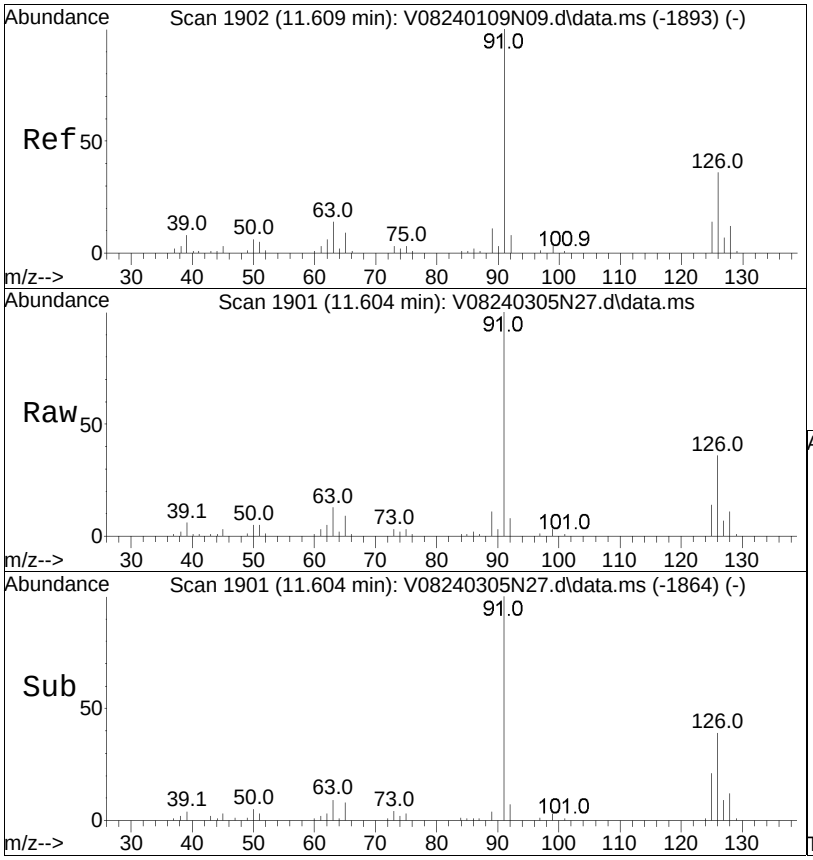


#92
trans-1,4-Dichloro-2-butene
Concen: 8.55 ug/L
RT: 11.530 min Scan# 1887
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 53 Resp: 9604

Ion	Ratio	Lower	Upper
53	100		
88	48.9	39.6	59.4
75	121.6	70.2	105.4#

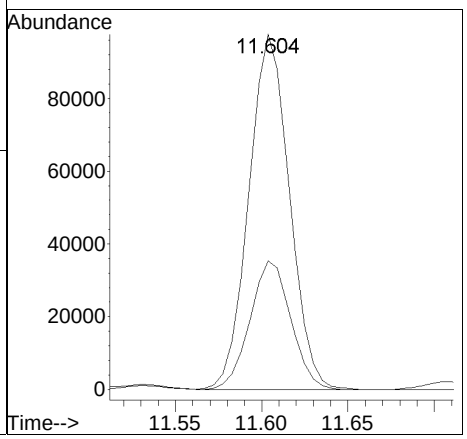


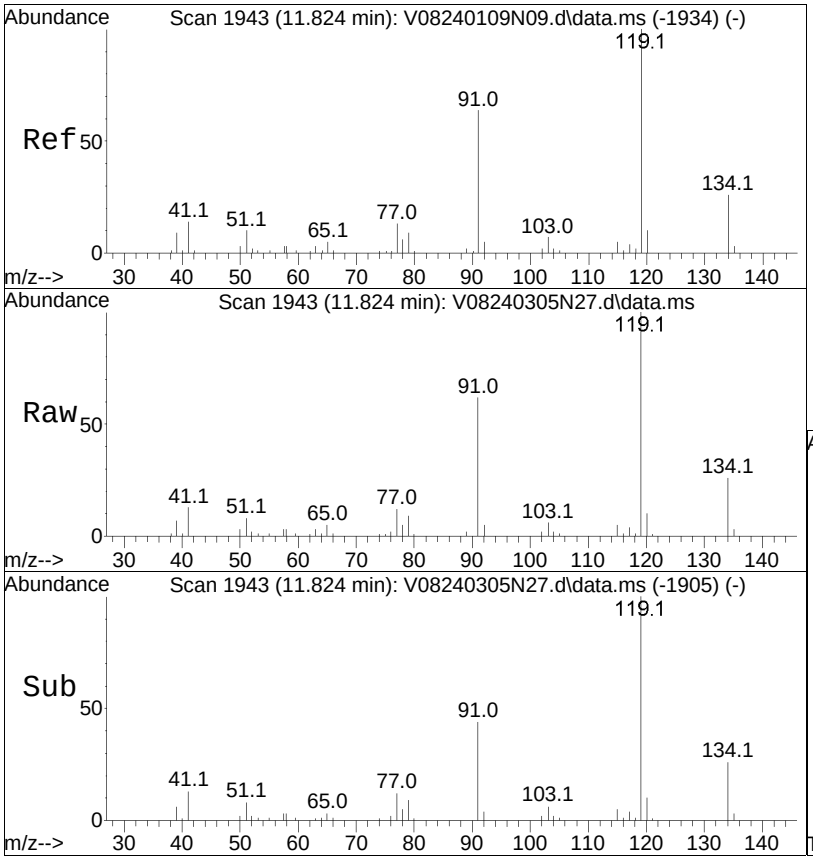


#93
4-Chlorotoluene
Concen: 9.87 ug/L
RT: 11.604 min Scan# 1901
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 91 Resp: 159712

Ion	Ratio	Lower	Upper
91	100		
126	36.3	24.6	36.8

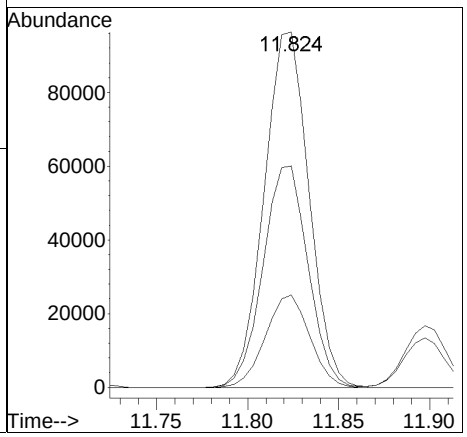


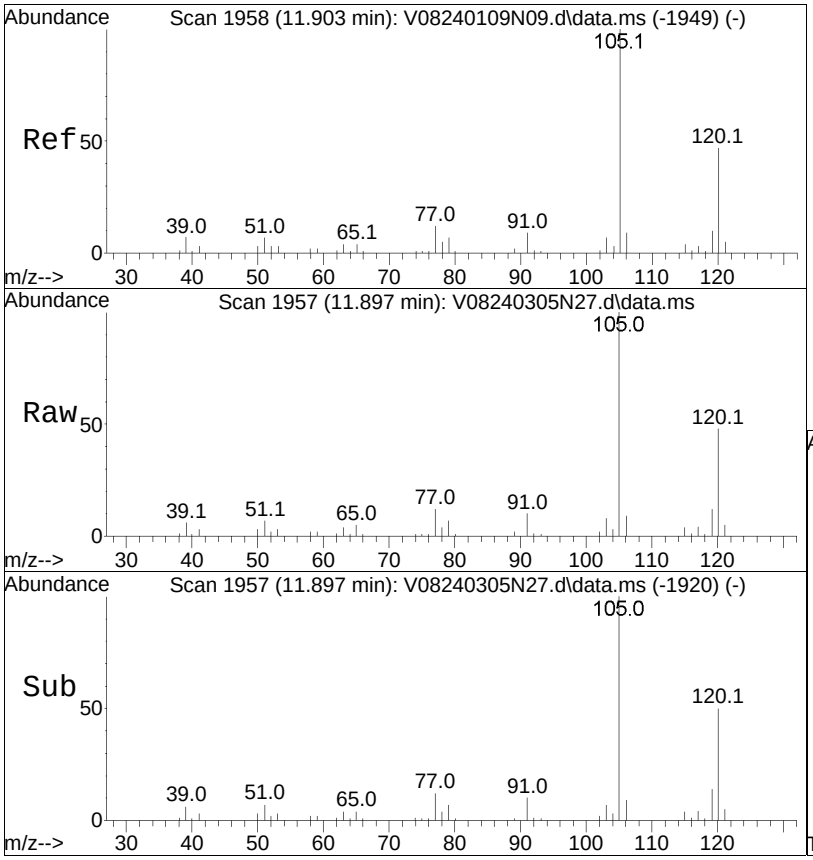


#94
tert-Butylbenzene
Concen: 10.04 ug/L
RT: 11.824 min Scan# 1943
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:119 Resp: 165065

Ion	Ratio	Lower	Upper
119	100		
91	62.6	51.4	77.2
134	25.7	18.3	27.5

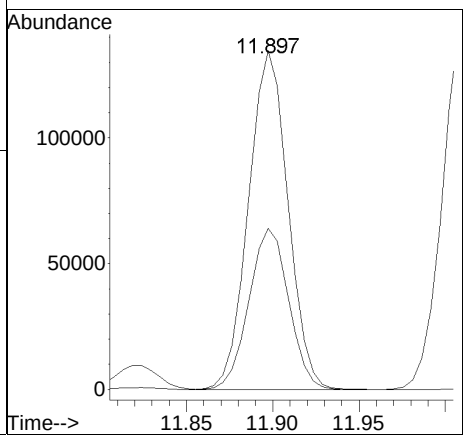


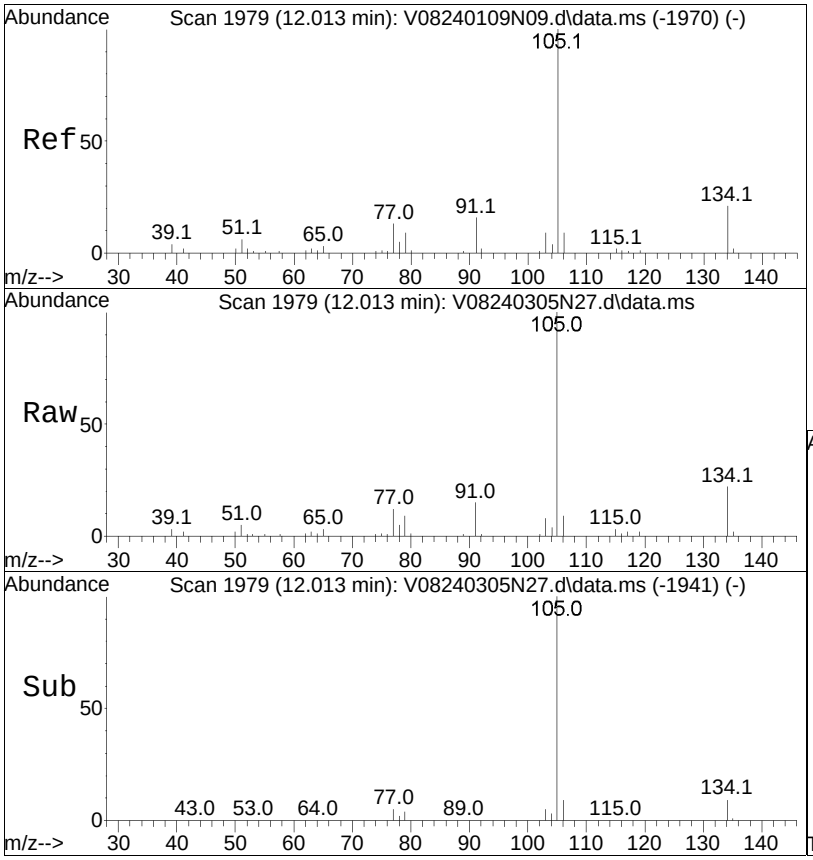


#97
1,2,4-Trimethylbenzene
Concen: 11.41 ug/L
RT: 11.897 min Scan# 1957
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:105 Resp: 213762

Ion	Ratio	Lower	Upper
105	100		
120	47.8	33.4	50.0

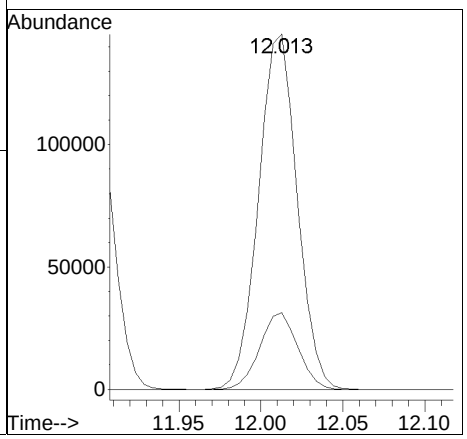


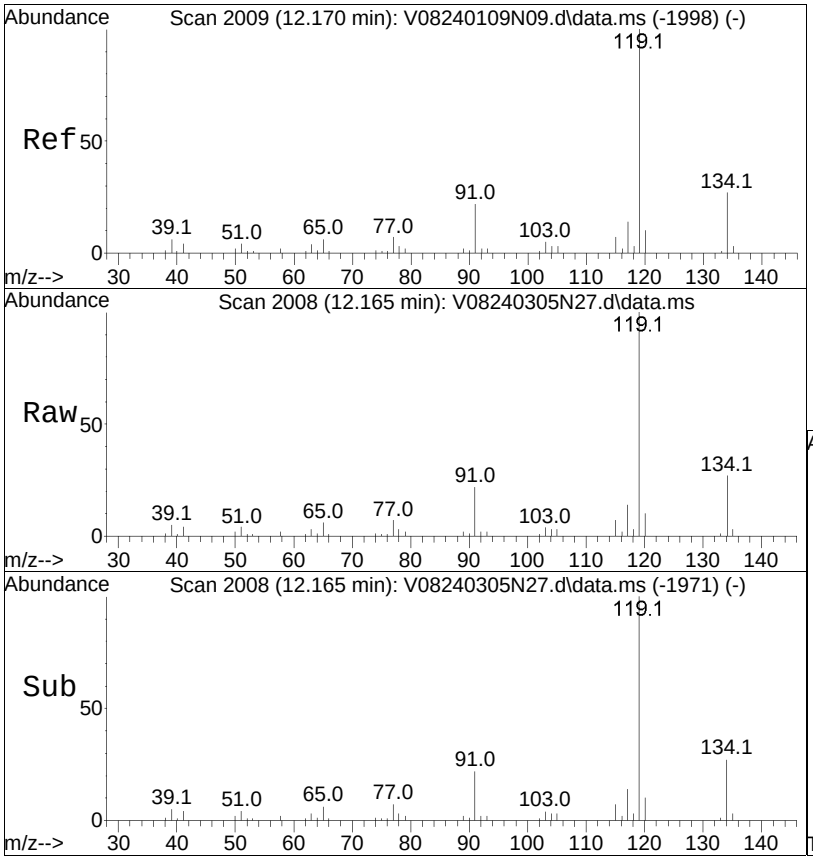


#98
sec-Butylbenzene
Concen: 9.95 ug/L
RT: 12.013 min Scan# 1979
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:105 Resp: 238031

Ion	Ratio	Lower	Upper
105	100		
134	21.2	12.5	26.1

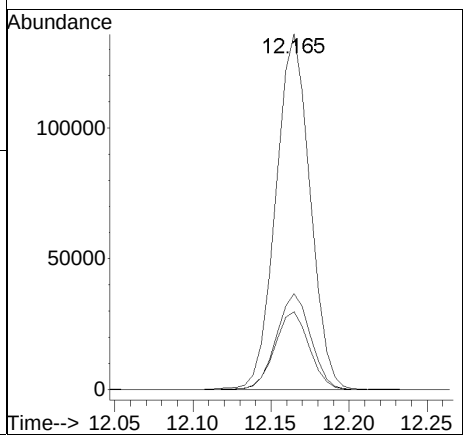


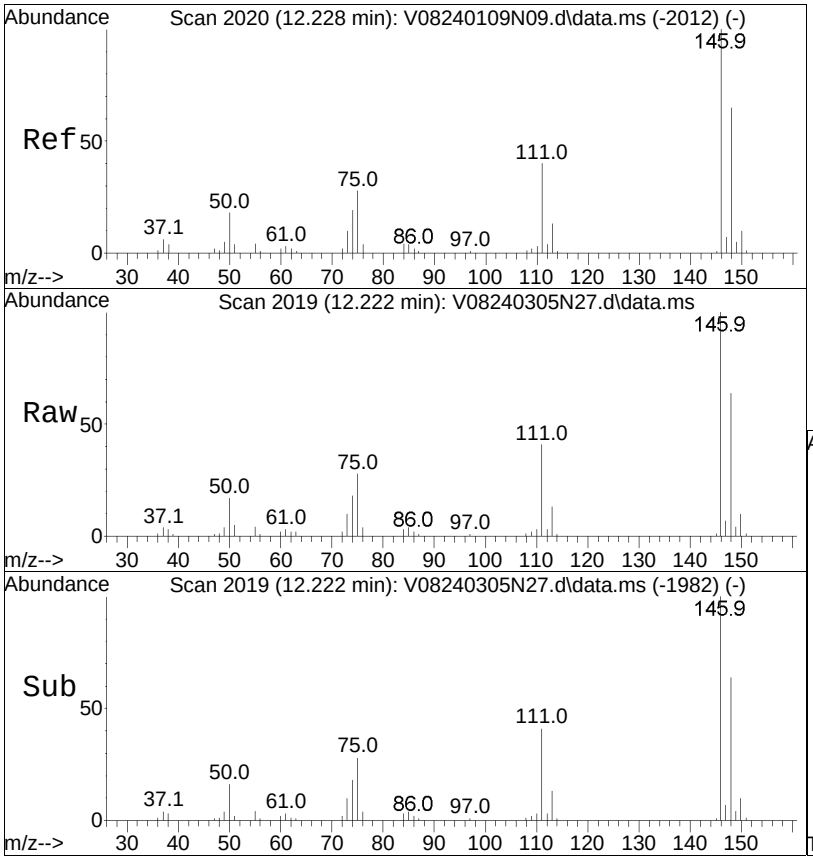


#99
p-Isopropyltoluene
Concen: 9.78 ug/L
RT: 12.165 min Scan# 2008
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:119 Resp: 207309

Ion	Ratio	Lower	Upper
119	100		
134	26.9	16.1	33.3
91	22.0	17.3	35.9

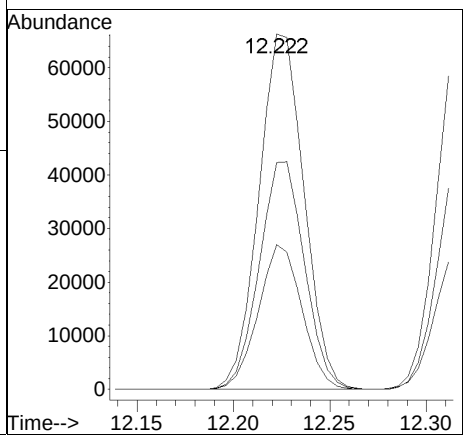


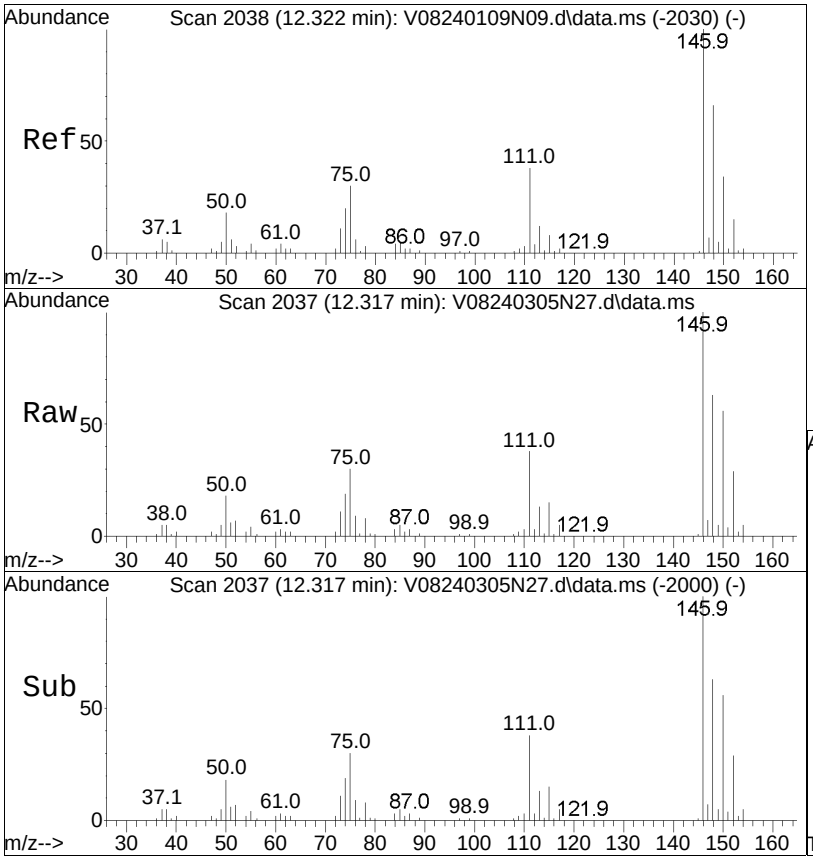


#100
1,3-Dichlorobenzene
Concen: 9.74 ug/L
RT: 12.222 min Scan# 2019
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:146 Resp: 108127

Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.5	57.1
148	64.0	41.9	86.9

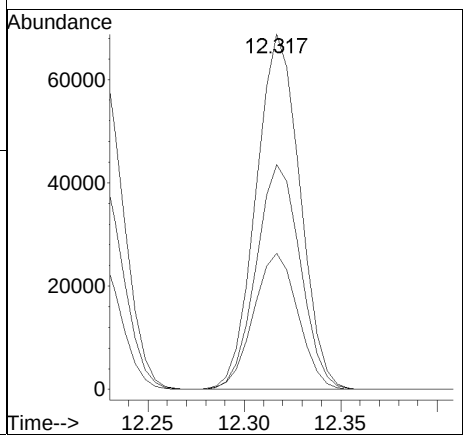


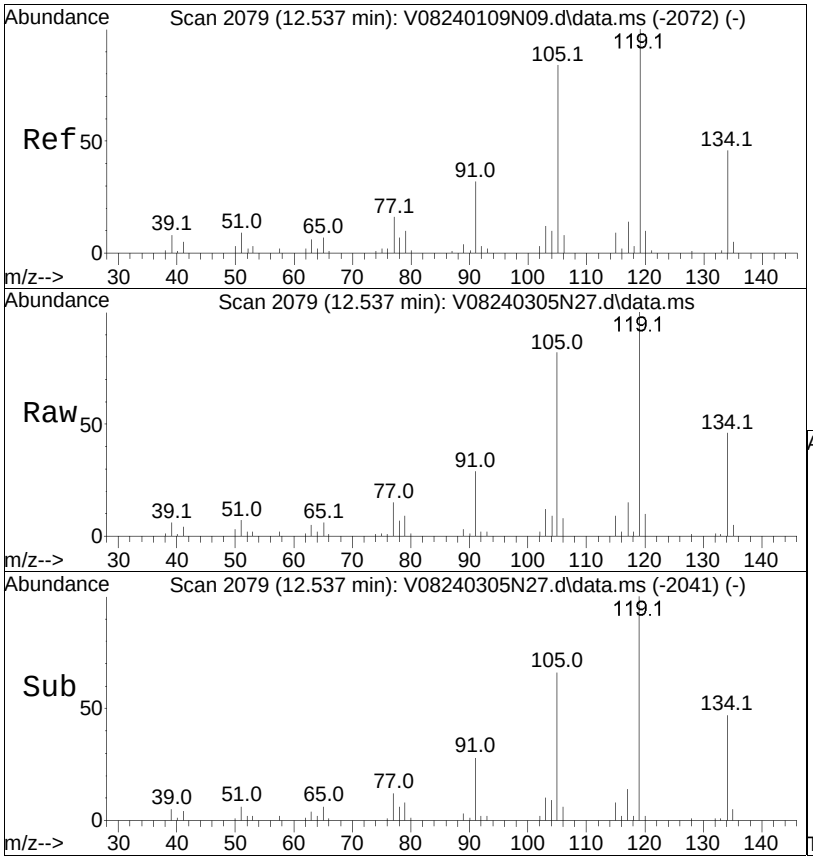


#101
1,4-Dichlorobenzene
Concen: 9.74 ug/L
RT: 12.317 min Scan# 2037
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:146 Resp: 109062

Ion	Ratio	Lower	Upper
146	100		
111	38.8	32.3	48.5
148	63.7	49.9	74.9

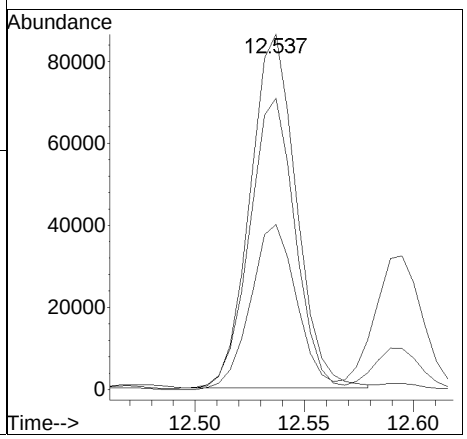


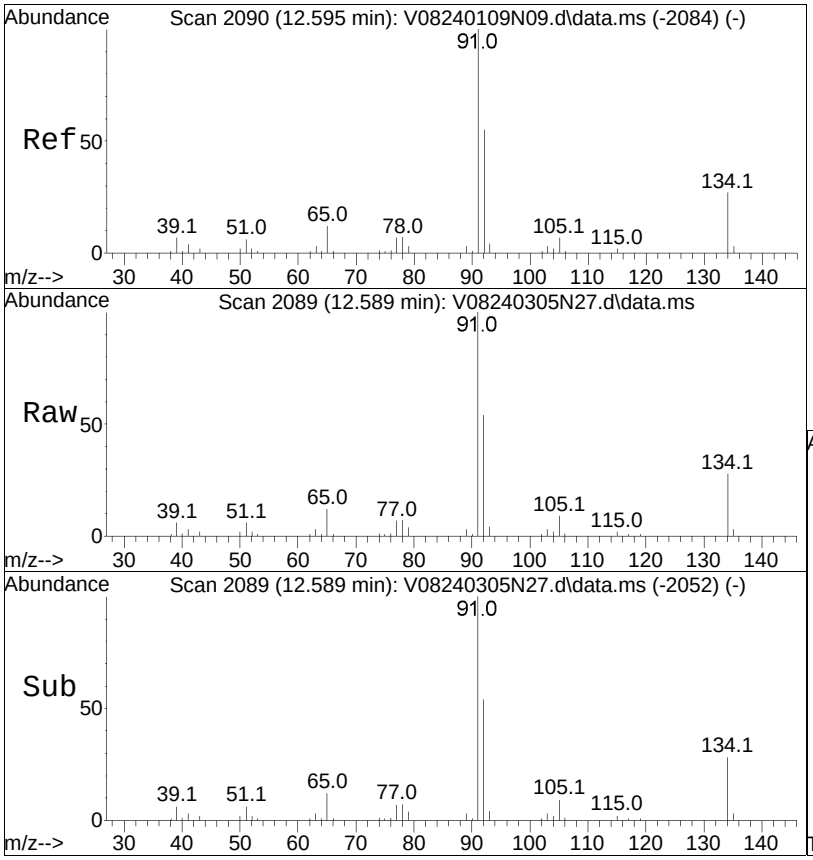


#102
p-Diethylbenzene
Concen: 9.79 ug/L
RT: 12.537 min Scan# 2079
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:119 Resp: 126606

Ion	Ratio	Lower	Upper
119	100		
105	81.4	59.5	123.7
134	46.6	30.2	62.6

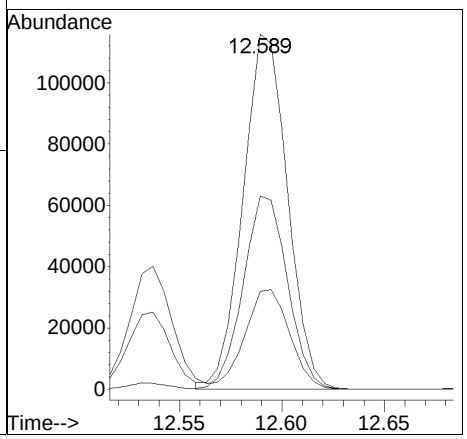


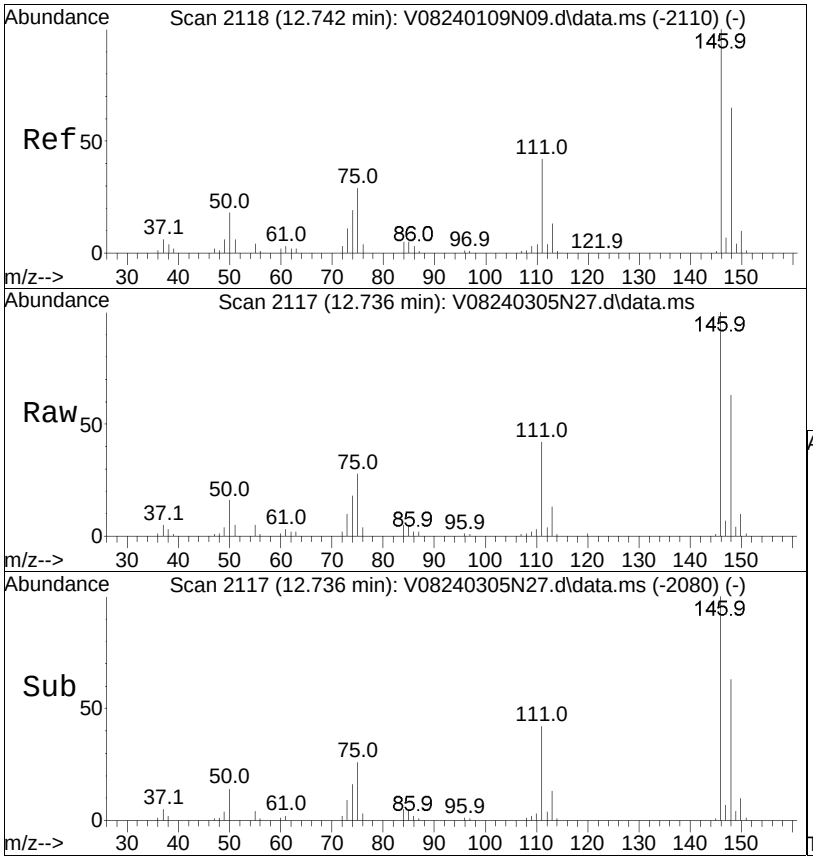


#103
n-Butylbenzene
Concen: 9.89 ug/L
RT: 12.589 min Scan# 2089
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion: 91 Resp: 174938

Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.0	64.4
134	28.5	19.6	29.4

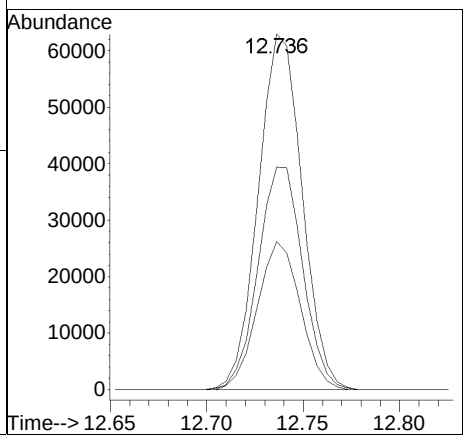


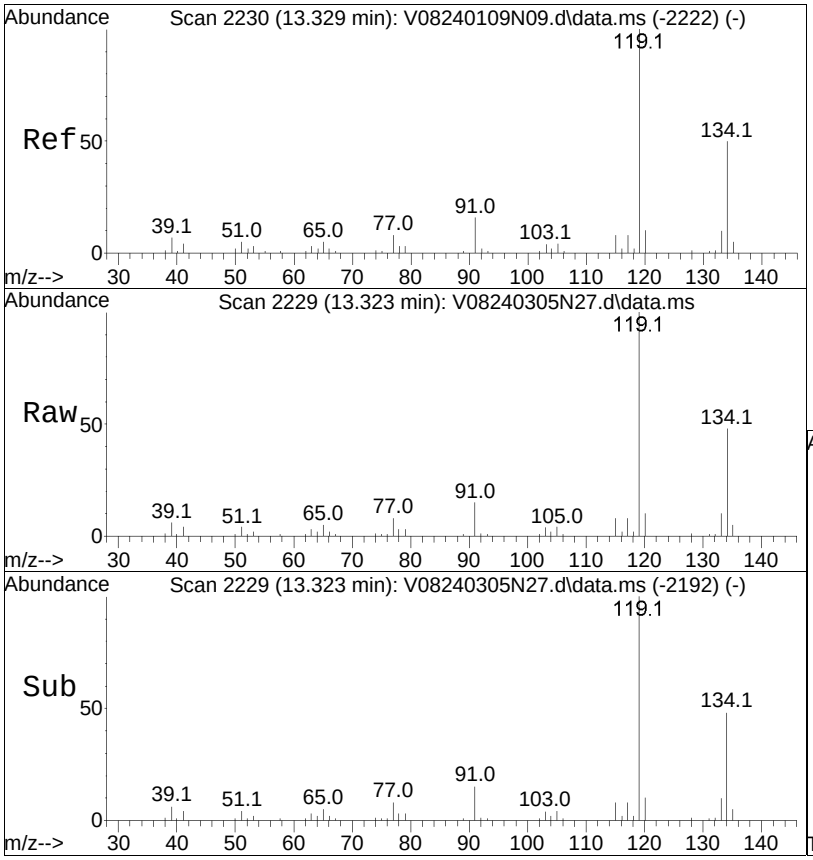


#104
1,2-Dichlorobenzene
Concen: 9.67 ug/L
RT: 12.736 min Scan# 2117
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:146 Resp: 99616

Ion	Ratio	Lower	Upper
146	100		
111	40.8	28.3	58.7
148	63.6	42.3	87.8

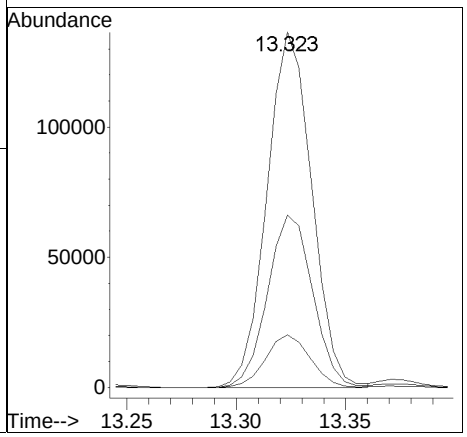


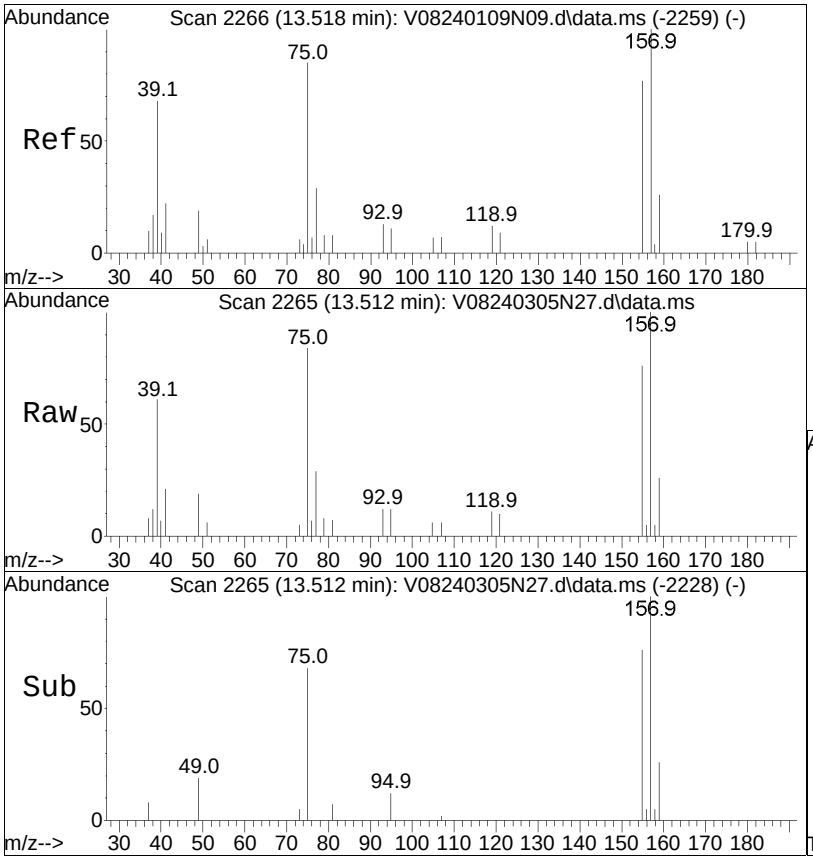


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.29 ug/L
RT: 13.323 min Scan# 2229
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:119 Resp: 194351

Ion	Ratio	Lower	Upper
119	100		
134	49.0	30.5	63.3
91	14.7	12.4	25.7

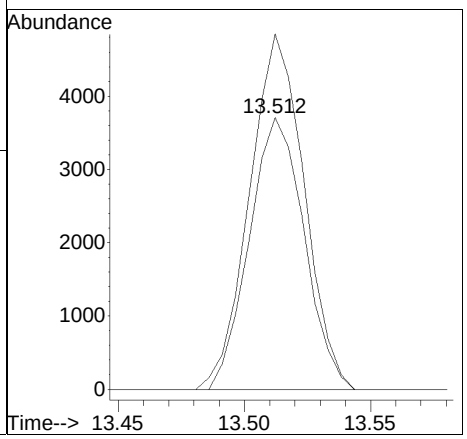


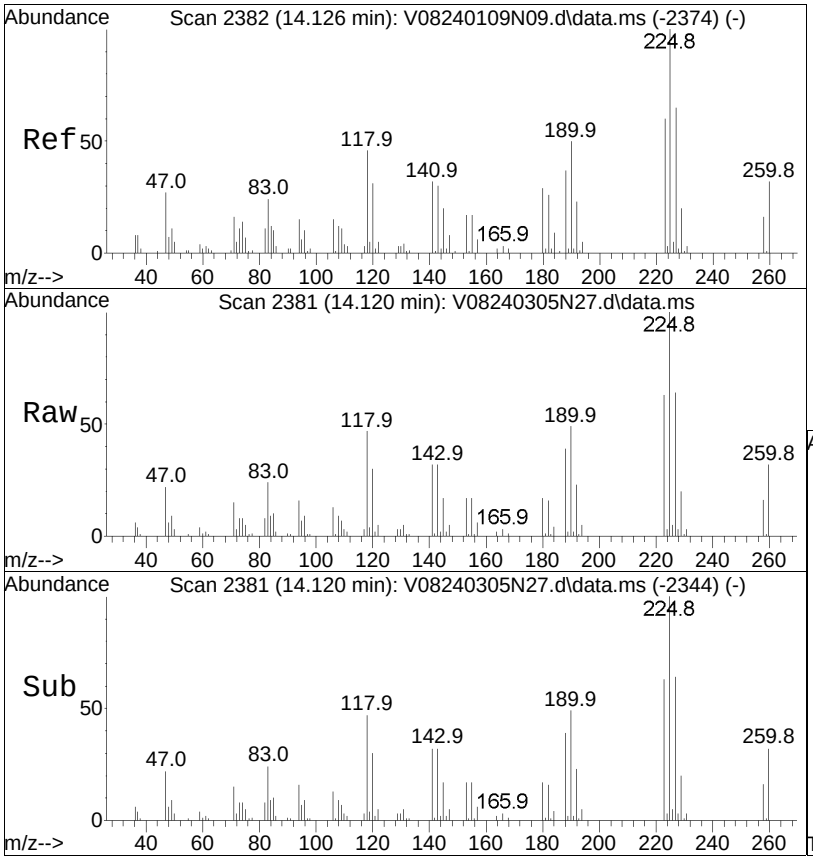


#106
1,2-Dibromo-3-chloropropane
Concen: 9.21 ug/L
RT: 13.512 min Scan# 2265
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:155 Resp: 5605

Ion	Ratio	Lower	Upper
155	100		
157	130.1	94.8	142.2

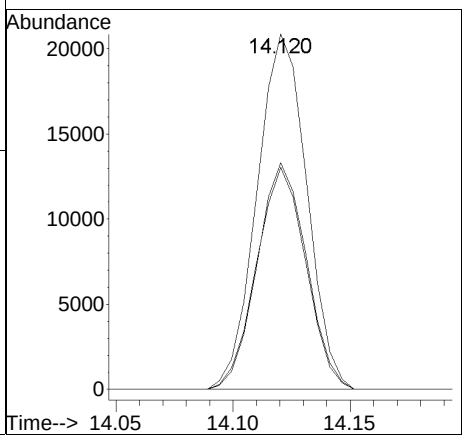


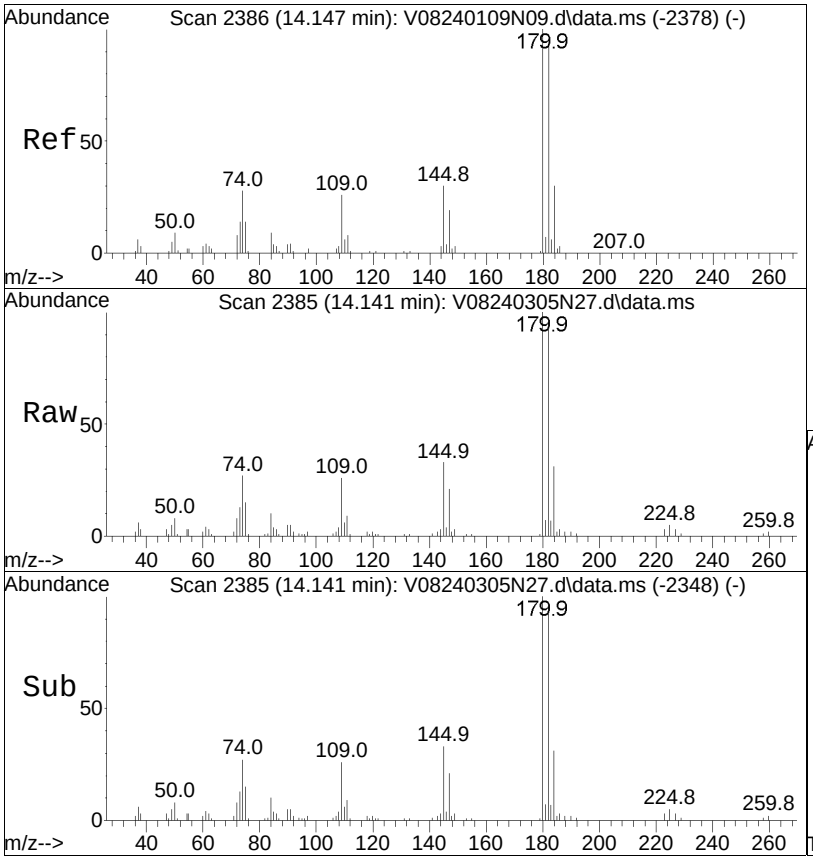


#108
Hexachlorobutadiene
Concen: 9.35 ug/L
RT: 14.120 min Scan# 2381
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:225 Resp: 30861

Ion	Ratio	Lower	Upper
225	100		
223	61.9	54.3	81.5
227	63.2	52.4	78.6

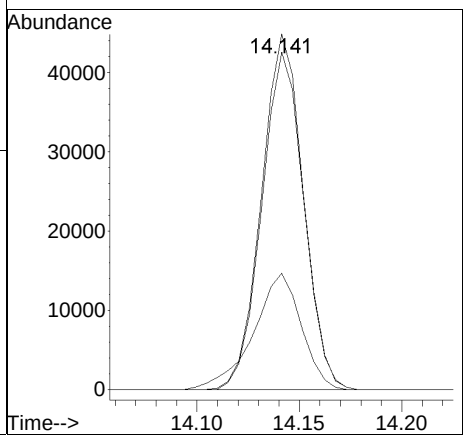


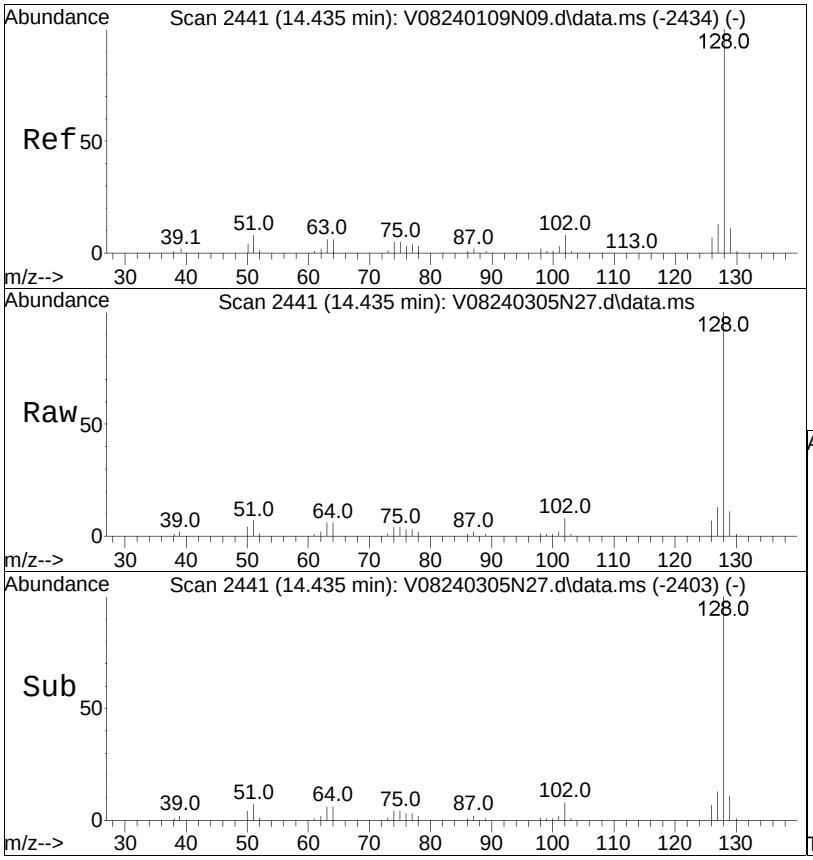


#109
1,2,4-Trichlorobenzene
Concen: 8.93 ug/L
RT: 14.141 min Scan# 2385
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:180 Resp: 63656

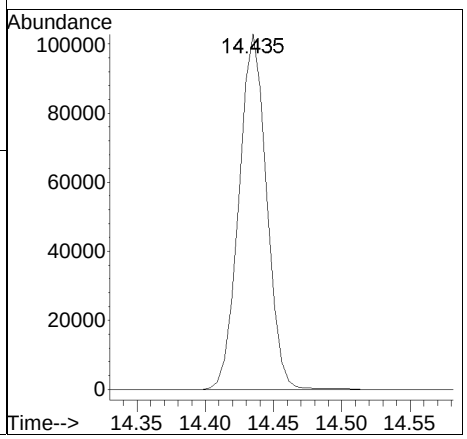
Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.3	115.9
145	37.2	28.1	42.1

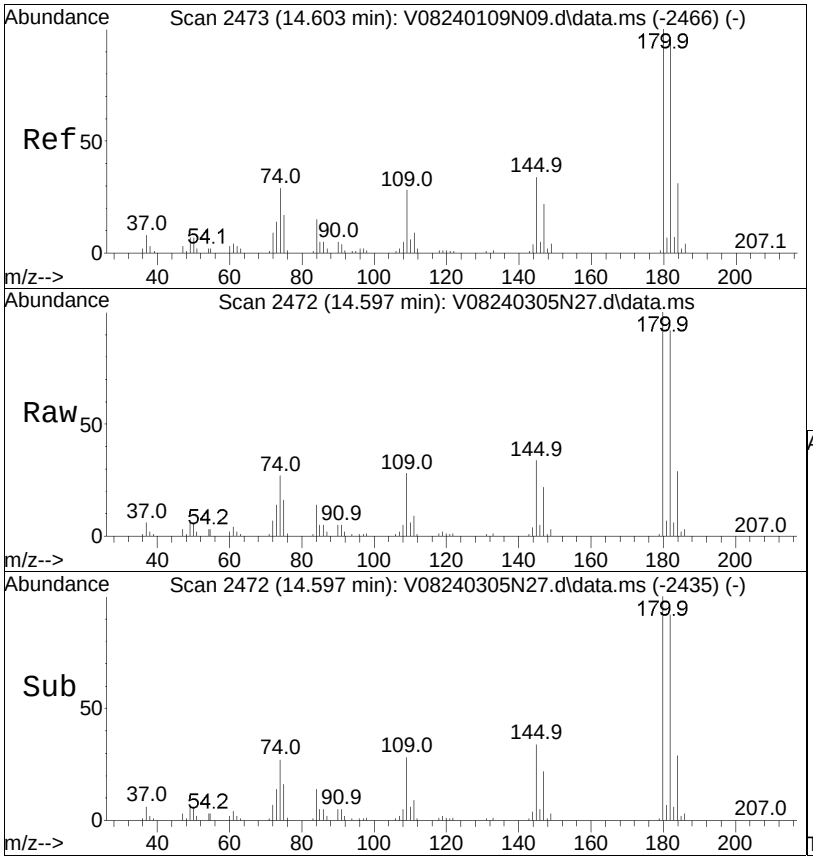




#110
Naphthalene
Concen: 10.40 ug/L
RT: 14.435 min Scan# 2441
Delta R.T. -0.000 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:128 Resp: 144987

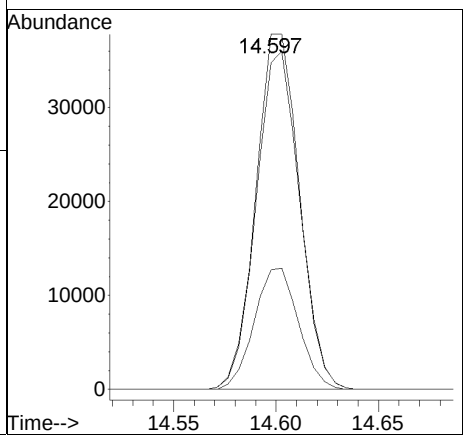




#111
1,2,3-Trichlorobenzene
Concen: 8.88 ug/L
RT: 14.597 min Scan# 2472
Delta R.T. -0.005 min
Lab File: V08240305N27.d
Acq: 6 Mar 2024 3:07 am

Tgt Ion:180 Resp: 56209

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.4	114.6
145	34.5	26.4	39.6

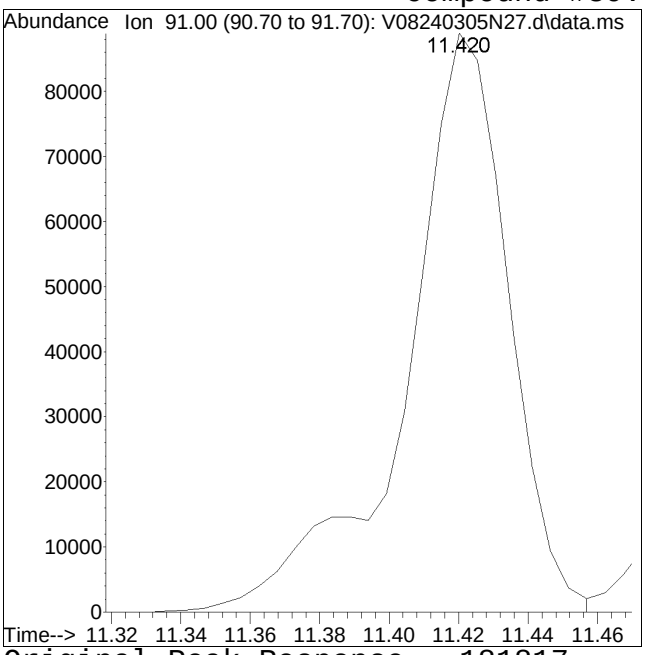


Manual Integration Report

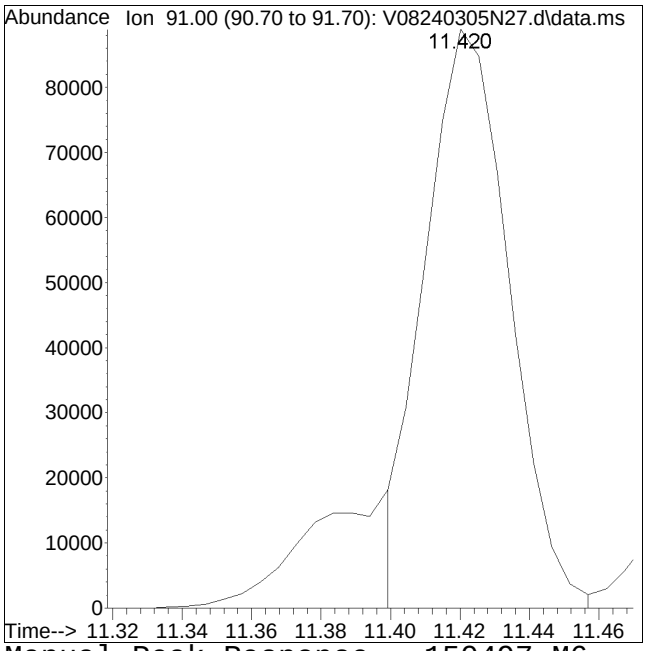
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N27.d
Date Inj'd : 3/6/2024 3:07 am
Sample : WG1893240-6,31,10,10,,D

QMethod : V108_240109N_8260.m
Operator : VOA108:RAW
Instrument : VOA 108
Quant Date : 3/6/2024 6:25 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 181817



Manual Peak Response = 150497 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N28.d
Acq On : 6 Mar 2024 3:29 am
Operator : VOA108:RAW
Sample : WG1893240-7,31,10,10,,G
Misc : WG1893240,ICAL20750
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 06 22:32:19 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.088	96	220322	10.000	ug/L	0.00
Standard Area 1 = 154204			Recovery = 142.88%			
59) Chlorobenzene-d5	9.617	117	168367	10.000	ug/L	0.00
Standard Area 1 = 110302			Recovery = 152.64%			
79) 1,4-Dichlorobenzene-d4	12.301	152	83014	10.000	ug/L	0.00
Standard Area 1 = 50383			Recovery = 164.77%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	57166	9.873	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.73%			
43) 1,2-Dichloroethane-d4	5.805	65	58029	9.414	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.14%			
60) Toluene-d8	7.777	98	211002	10.004	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
83) 4-Bromofluorobenzene	11.101	95	75849	10.140	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.695	85	44088	10.458	ug/L	98
3) Chloromethane	1.889	50	63849	11.518	ug/L	99
4) Vinyl chloride	1.967	62	58664	9.898	ug/L	96
5) Bromomethane	2.282	94	30868	7.914	ug/L	98
6) Chloroethane	2.408	64	32083	8.556	ug/L	97
7) Trichlorofluoromethane	2.544	101	61918	8.643	ug/L	97
8) Ethyl ether	2.843	74	19333	8.700	ug/L	79
10) 1,1-Dichloroethene	3.032	96	45271	11.322	ug/L #	65
11) Carbon disulfide	3.063	76	147822	10.734	ug/L	97
15) Methylene chloride	3.587	84	47918	10.114	ug/L	74
17) Acetone	3.624	43	12735	16.466	ug/L	96
18) trans-1,2-Dichloroethene	3.739	96	50764	10.989	ug/L	78
20) Methyl tert-butyl ether	3.839	73	105785	10.051	ug/L	97
23) 1,1-Dichloroethane	4.321	63	94974	10.530	ug/L	99
25) Acrylonitrile	4.363	53	11873	13.041	ug/L #	82
27) Vinyl acetate	4.552	43	79750	8.955	ug/L #	94
28) cis-1,2-Dichloroethene	4.840	96	55631	10.457	ug/L #	72
29) 2,2-Dichloropropane	4.945	77	65298	8.928	ug/L	96
30) Bromochloromethane	5.029	128	25394	10.237	ug/L #	59
32) Chloroform	5.103	83	86006	10.027	ug/L	95

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N28.d
Acq On : 6 Mar 2024 3:29 am
Operator : VOA108:RAW
Sample : WG1893240-7,31,10,10,,G
Misc : WG1893240,ICAL20750
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 06 22:32:19 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.244	117	69216	10.338	ug/L		98
37) 1,1,1-Trichloroethane	5.307	97	76606	10.191	ug/L	#	92
39) 2-Butanone	5.391	43	13468	11.193	ug/L	#	77
40) 1,1-Dichloropropene	5.428	75	67333	10.617	ug/L		94
41) Benzene	5.674	78	246864	13.361	ug/L		91
44) 1,2-Dichloroethane	5.873	62	58026	9.463	ug/L		96
48) Trichloroethene	6.266	95	52990	10.959	ug/L		92
50) Dibromomethane	6.707	93	25916	9.647	ug/L		97
51) 1,2-Dichloropropane	6.812	63	51796	10.365	ug/L		95
54) Bromodichloromethane	6.880	83	63179	9.620	ug/L		100
57) 1,4-Dioxane	7.084	88	12972	751.459	ug/L	#	79
58) cis-1,3-Dichloropropene	7.567	75	70729	9.257	ug/L	#	87
61) Toluene	7.839	92	152138	13.111	ug/L		96
62) 4-Methyl-2-pentanone	8.264	58	9950	8.762	ug/L	#	91
63) Tetrachloroethene	8.285	166	52966	10.676	ug/L		89
65) trans-1,3-Dichloropropene	8.317	75	58938	9.196	ug/L		91
68) 1,1,2-Trichloroethane	8.500	83	30379	10.394	ug/L		93
69) Chlorodibromomethane	8.710	129	44610	9.588	ug/L		95
70) 1,3-Dichloropropane	8.820	76	61236	10.070	ug/L		98
71) 1,2-Dibromoethane	8.988	107	35133	9.933	ug/L		97
72) 2-Hexanone	9.271	43	15595	8.089	ug/L		96
73) Chlorobenzene	9.638	112	135535	9.972	ug/L		92
74) Ethylbenzene	9.680	91	283742	12.605	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.727	131	49257	9.875	ug/L		94
76) p/m Xylene	9.868	106	241305	27.005	ug/L		93
77) o Xylene	10.403	106	221296	25.021	ug/L		88
78) Styrene	10.466	104	270174	18.456	ug/L		87
80) Bromoform	10.487	173	24239	9.449	ug/L		96
82) Isopropylbenzene	10.786	105	222092	10.352	ug/L		95
84) Bromobenzene	11.211	156	54570	10.053	ug/L		97
85) n-Propylbenzene	11.258	91	263015	10.452	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.337	83	40740	10.539	ug/L		99
88) 4-Ethyltoluene	11.384	105	252688	11.712	ug/L		94
89) 2-Chlorotoluene	11.420	91	150369M6	9.863	ug/L		
90) 1,3,5-Trimethylbenzene	11.483	105	218676	11.765	ug/L		87
91) 1,2,3-Trichloropropane	11.478	75	31042	9.858	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.531	53	9545	8.696	ug/L	#	70
93) 4-Chlorotoluene	11.604	91	159442	10.092	ug/L		90
94) tert-Butylbenzene	11.824	119	165822	10.324	ug/L		97

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N28.d
Acq On : 6 Mar 2024 3:29 am
Operator : VOA108:RAW
Sample : WG1893240-7,31,10,10,,G
Misc : WG1893240,ICAL20750
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 06 22:32:19 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240305N\V08240305N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	11.898	105	223106	12.195	ug/L	90
98) sec-Butylbenzene	12.013	105	238128	10.192	ug/L	95
99) p-Isopropyltoluene	12.165	119	209793	10.129	ug/L	93
100) 1,3-Dichlorobenzene	12.223	146	108384	10.000	ug/L	98
101) 1,4-Dichlorobenzene	12.317	146	109013	9.964	ug/L	98
102) p-Diethylbenzene	12.537	119	127861	10.119	ug/L	93
103) n-Butylbenzene	12.590	91	177044	10.248	ug/L	97
104) 1,2-Dichlorobenzene	12.736	146	99373	9.872	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.324	119	195892	9.584	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.512	155	5700	9.592	ug/L	90
108) Hexachlorobutadiene	14.121	225	30936	9.598	ug/L	97
109) 1,2,4-Trichlorobenzene	14.142	180	64805	9.311	ug/L	98
110) Naphthalene	14.435	128	142723	10.480	ug/L	100
111) 1,2,3-Trichlorobenzene	14.603	180	57411	9.289	ug/L	99

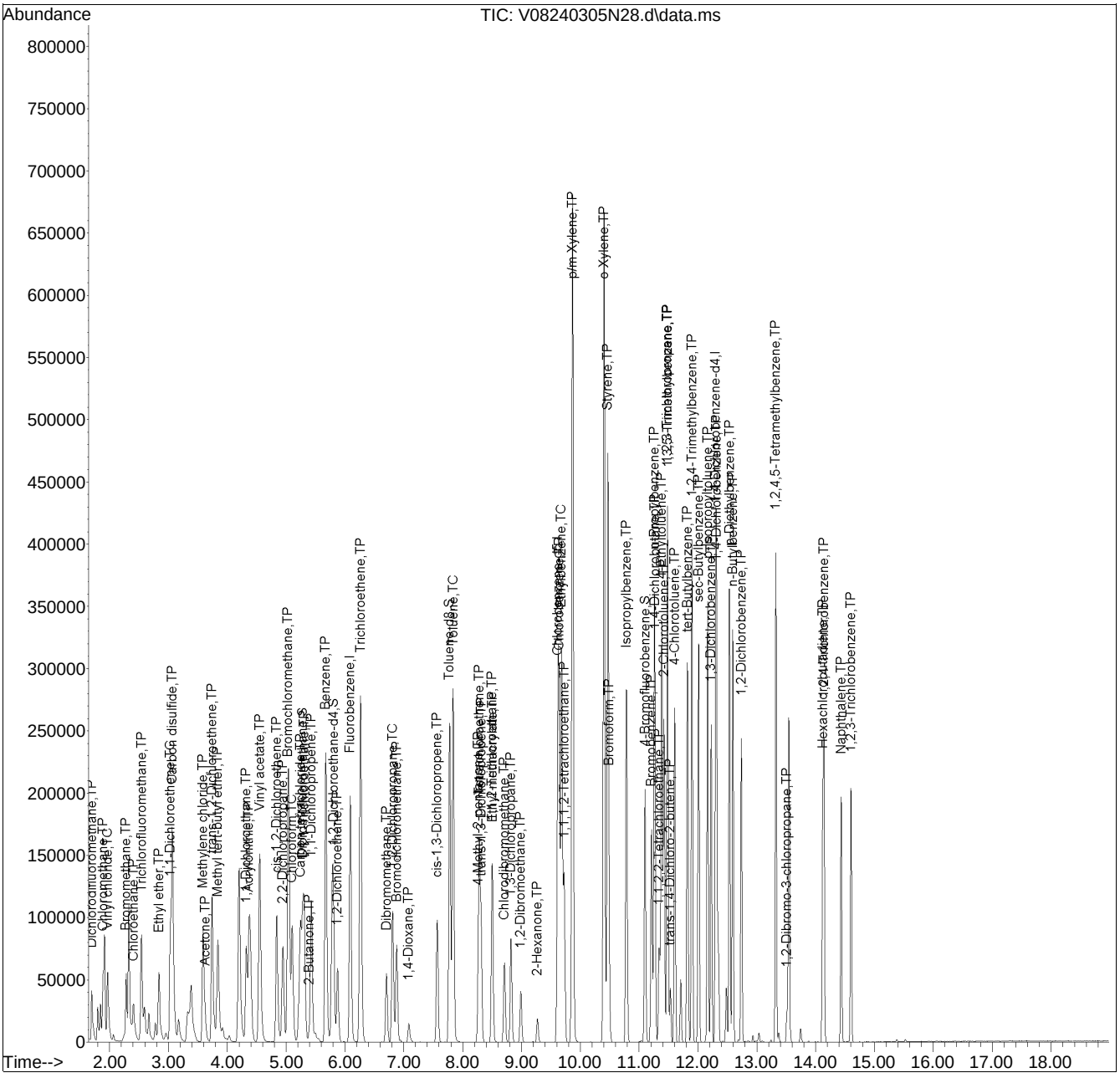
(#) = qualifier out of range (m) = manual integration (+) = signals summed

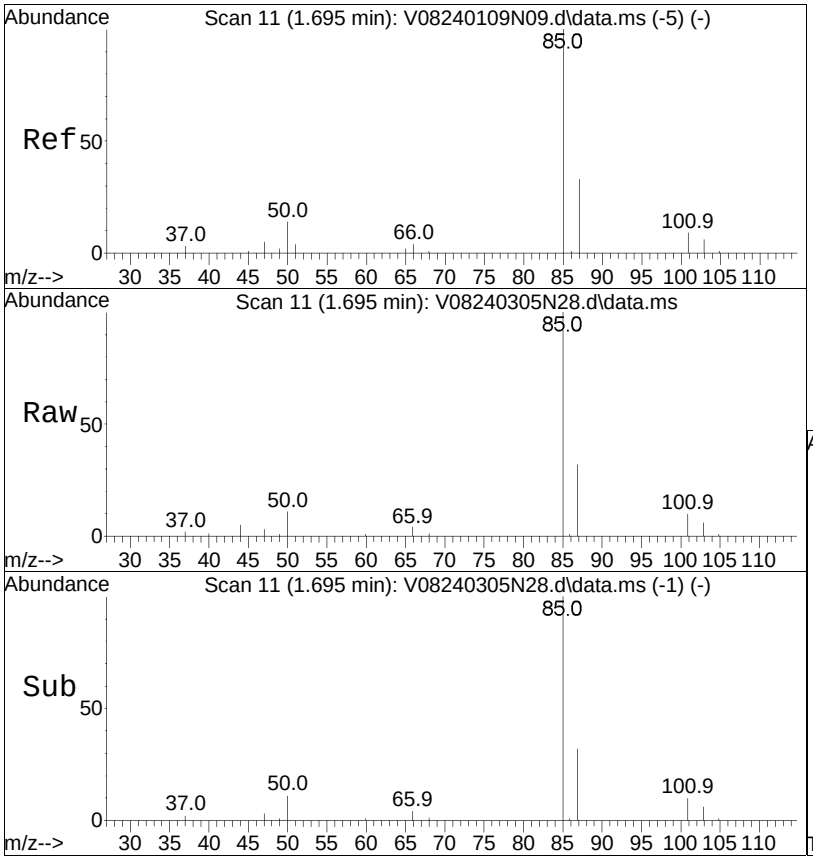
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N28.d
Acq On : 6 Mar 2024 3:29 am
Operator : VOA108:RAW
Sample : WG1893240-7,31,10,10,,G
Misc : WG1893240,ICAL20750
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 06 22:32:19 2024
Quant Method : K:\VOA108\2024\240305N\V108_240109N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 10 11:47:12 2024
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox240305N01.d•

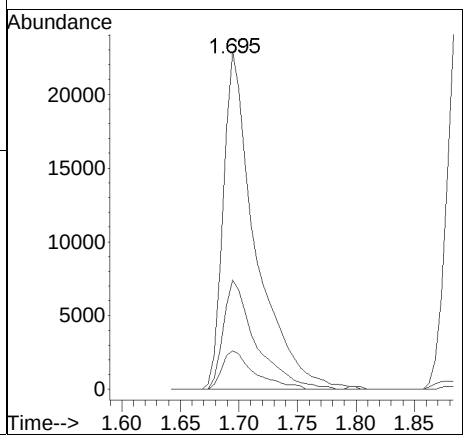


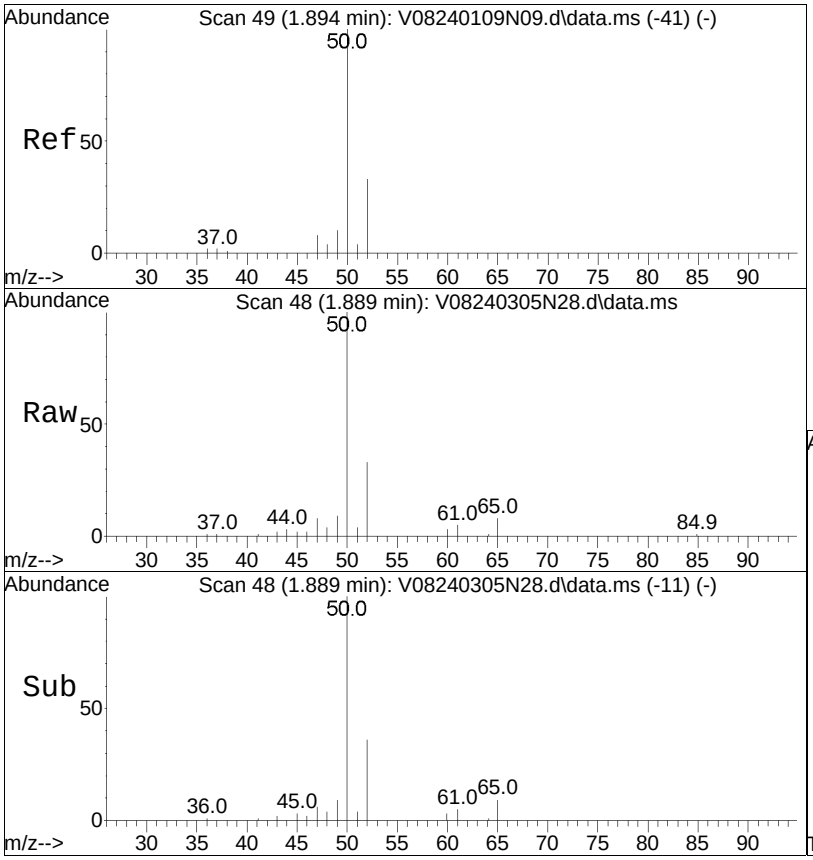


#2
Dichlorodifluoromethane
Concen: 10.46 ug/L
RT: 1.695 min Scan# 11
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 85 Resp: 44088

Ion	Ratio	Lower	Upper
85	100		
87	32.6	21.0	43.6
50	11.6	8.9	18.5

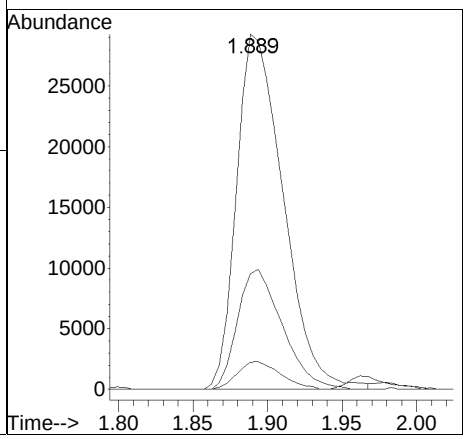


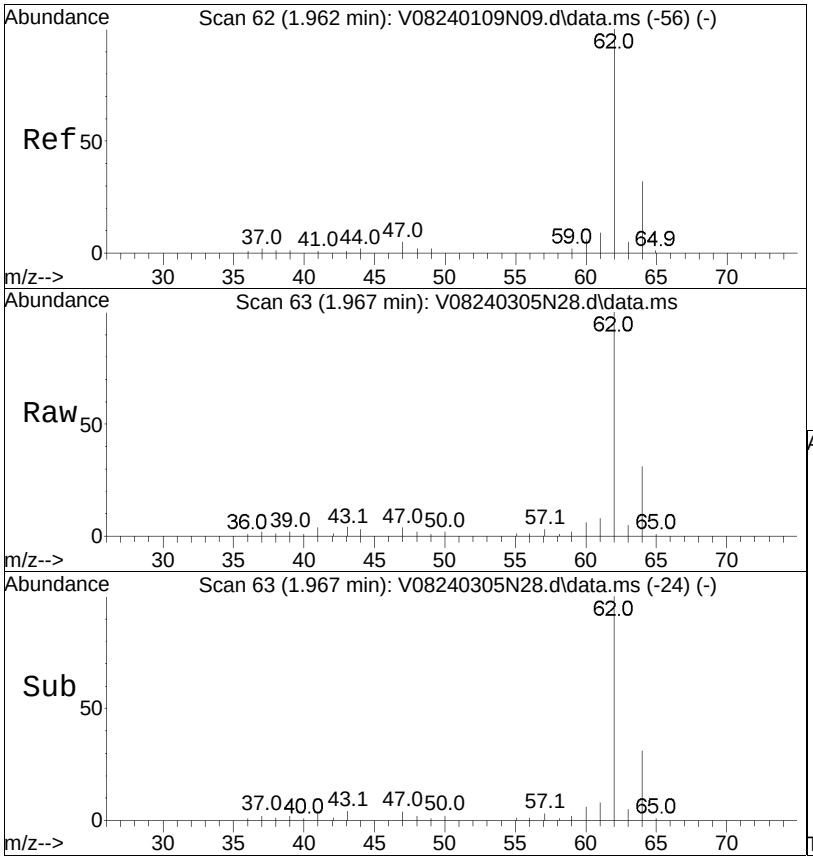


#3
Chloromethane
Concen: 11.52 ug/L
RT: 1.889 min Scan# 48
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 50 Resp: 63849

Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.9	52.9
47	7.3	0.0	28.3

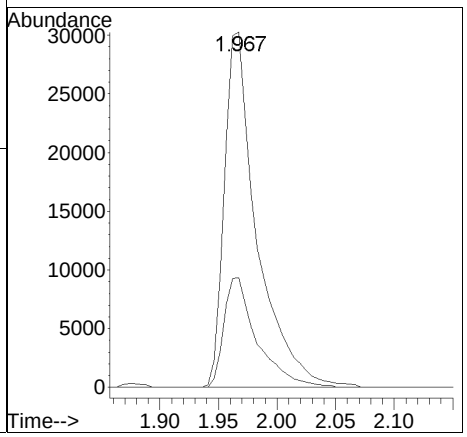


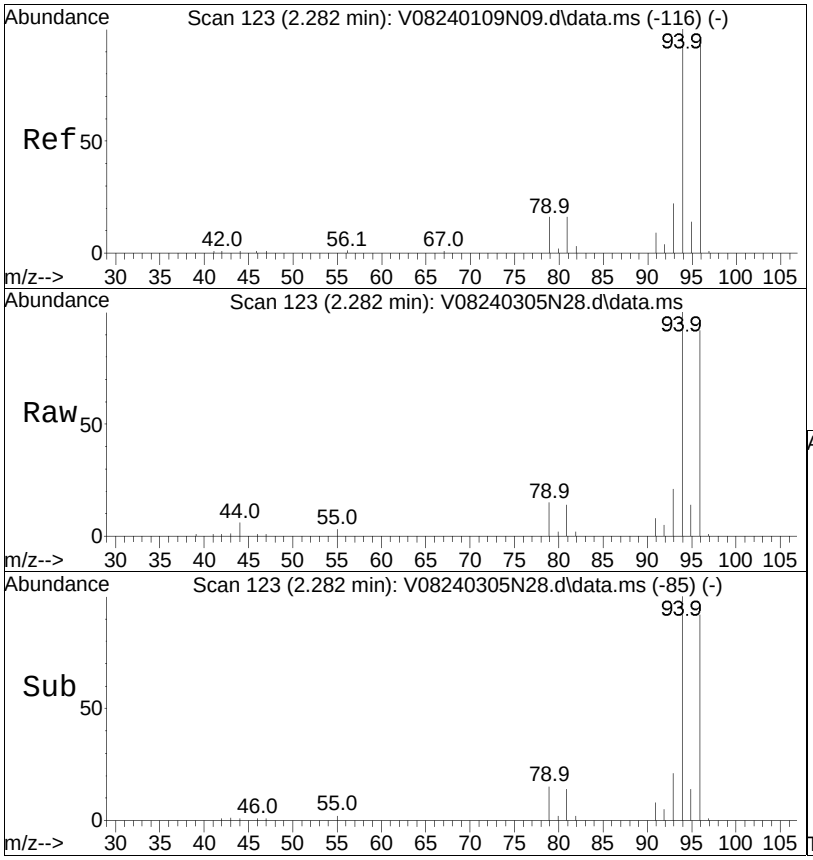


#4
Vinyl chloride
Concen: 9.90 ug/L
RT: 1.967 min Scan# 63
Delta R.T. 0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 62 Resp: 58664

Ion	Ratio	Lower	Upper
62	100		
64	31.4	9.1	49.1

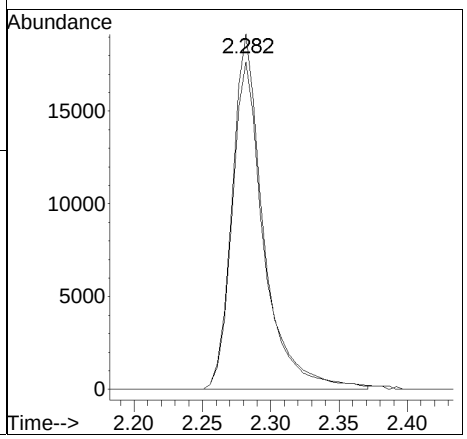


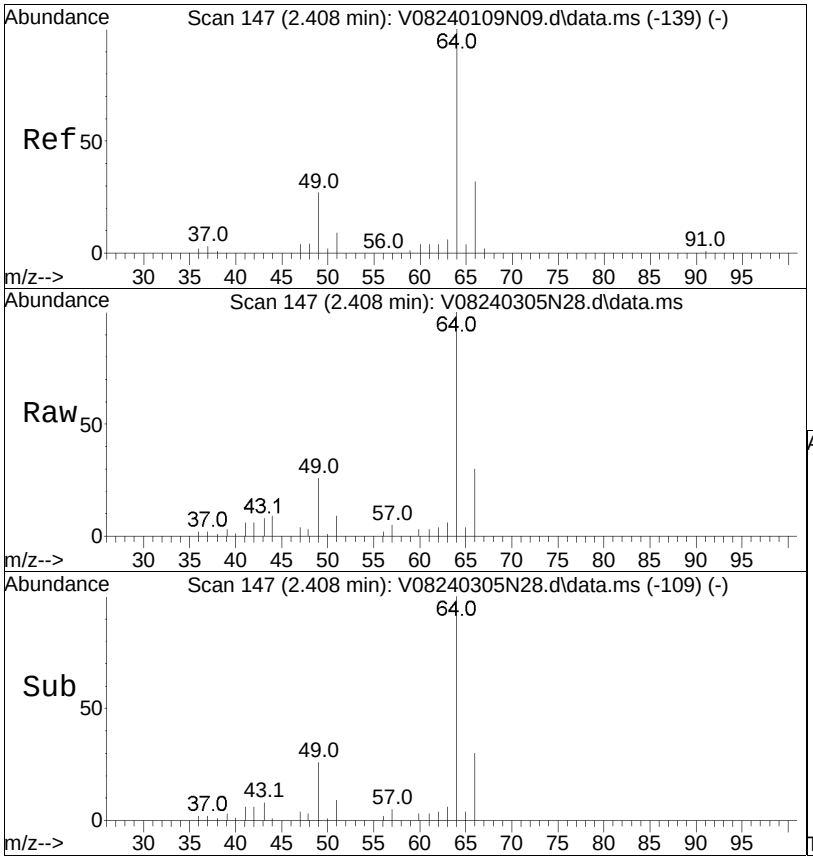


#5
Bromomethane
Concen: 7.91 ug/L
RT: 2.282 min Scan# 123
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 94 Resp: 30868

Ion	Ratio	Lower	Upper
94	100		
96	93.6	75.6	115.6

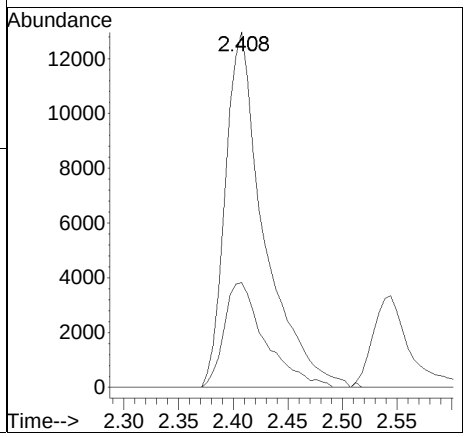


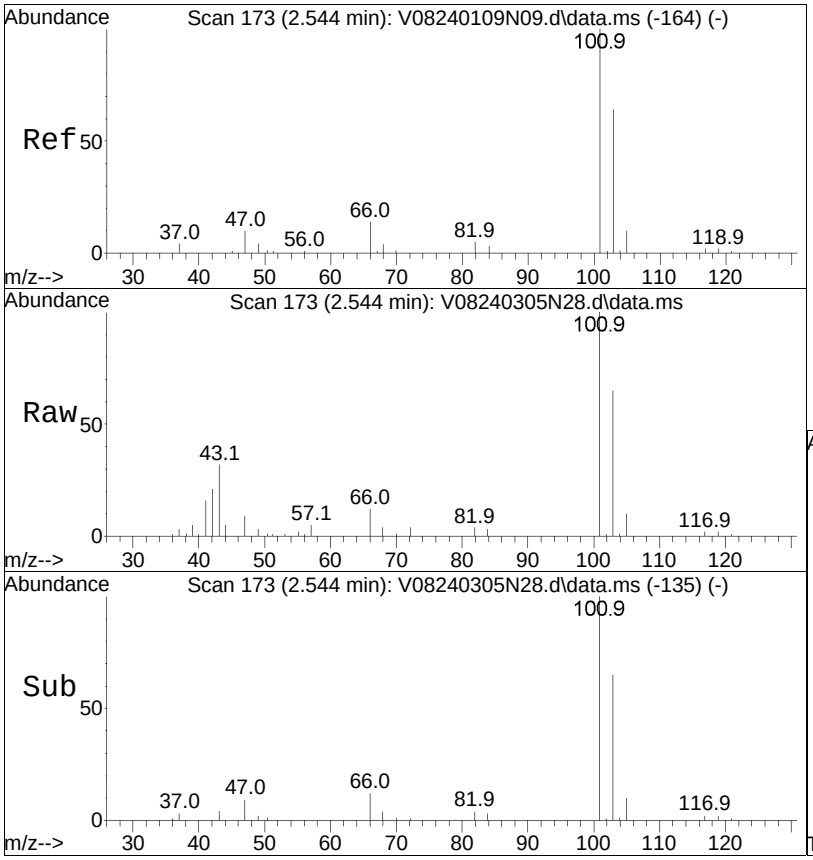


#6
Chloroethane
Concen: 8.56 ug/L
RT: 2.408 min Scan# 147
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 64 Resp: 32083

Ion	Ratio	Lower	Upper
64	100		
66	31.3	9.8	49.8

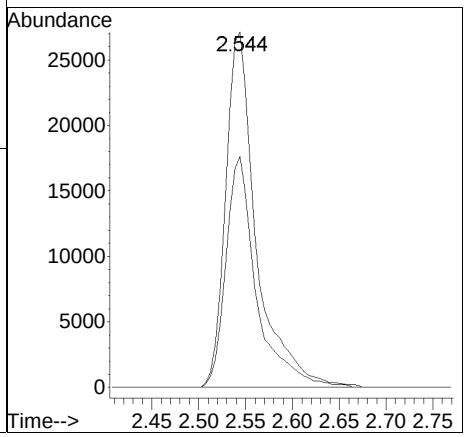


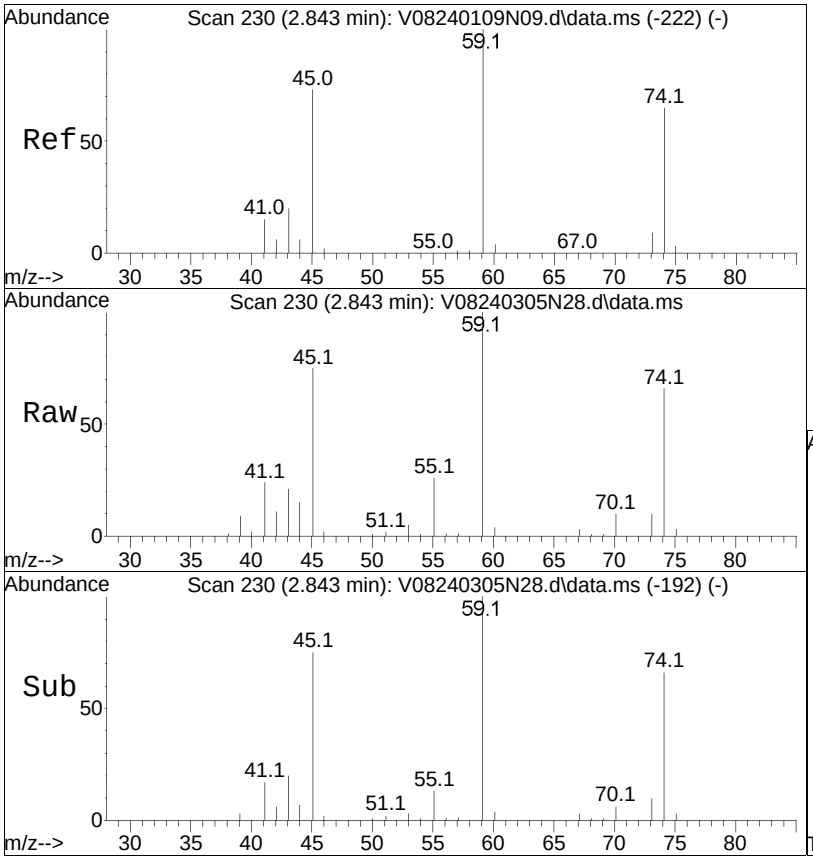


#7
Trichlorofluoromethane
Concen: 8.64 ug/L
RT: 2.544 min Scan# 173
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:101 Resp: 61918

Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.8	80.6

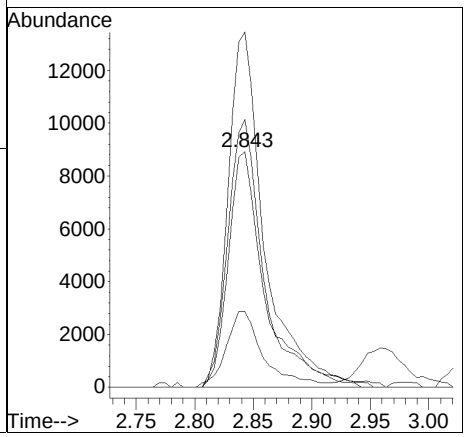


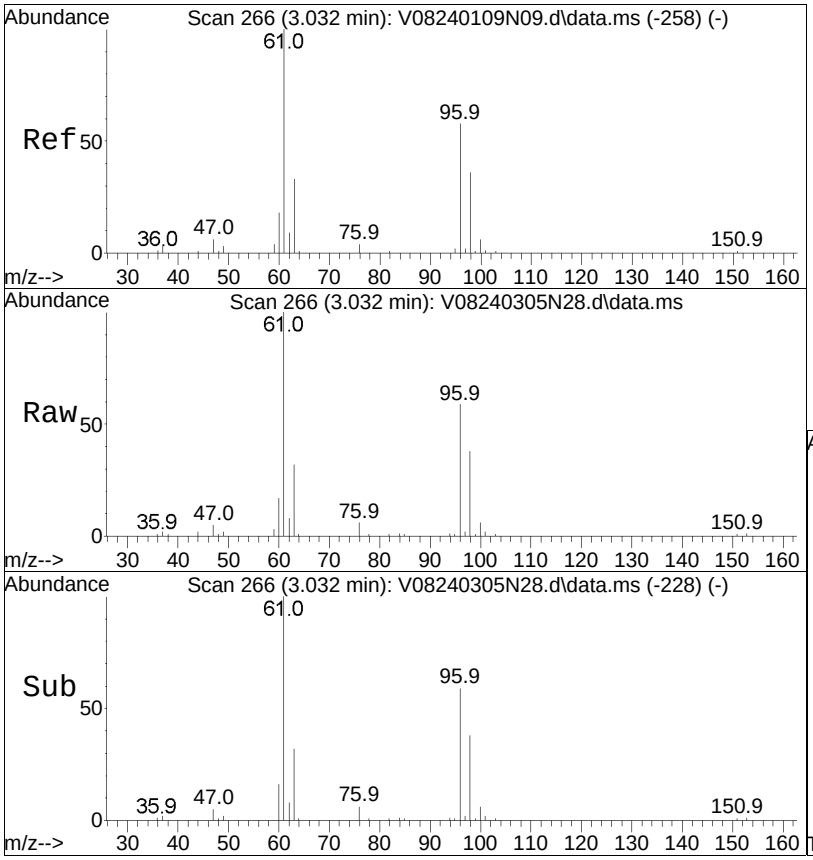


#8
Ethyl ether
Concen: 8.70 ug/L
RT: 2.843 min Scan# 230
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 74 Resp: 19333

Ion	Ratio	Lower	Upper
74	100		
59	152.0	122.2	253.8
45	116.8	91.9	190.9
43	33.5	25.2	52.2

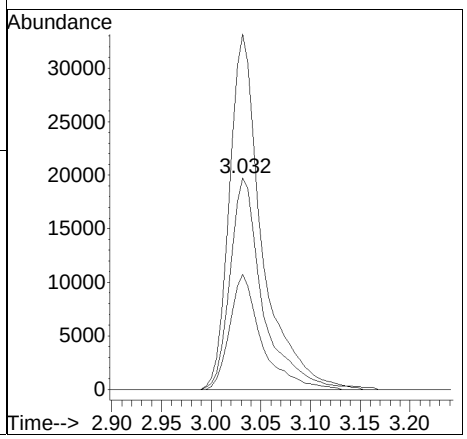


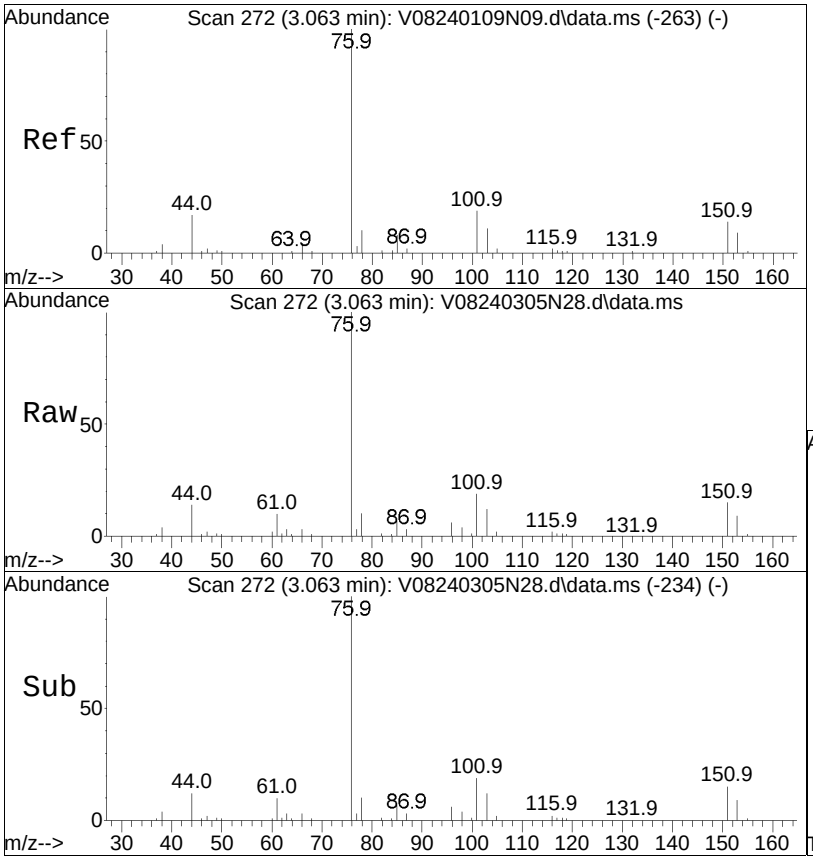


#10
1,1-Dichloroethene
Concen: 11.32 ug/L
RT: 3.032 min Scan# 266
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 96 Resp: 45271

Ion	Ratio	Lower	Upper
96	100		
61	167.8	186.1	279.1#
63	53.3	57.6	86.4#

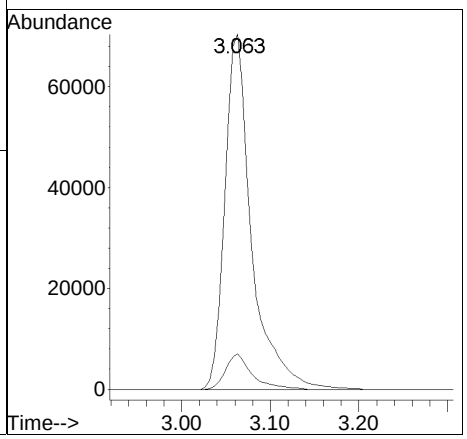


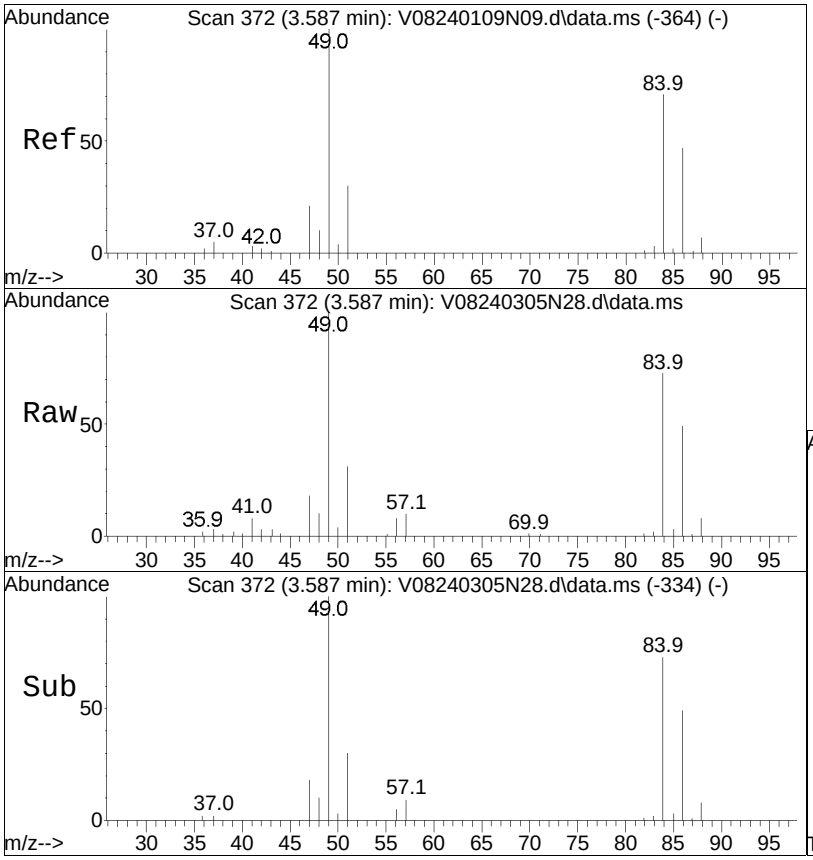


#11
Carbon disulfide
Concen: 10.73 ug/L
RT: 3.063 min Scan# 272
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 76 Resp: 147822

Ion	Ratio	Lower	Upper
76	100		
78	9.9	5.7	11.7

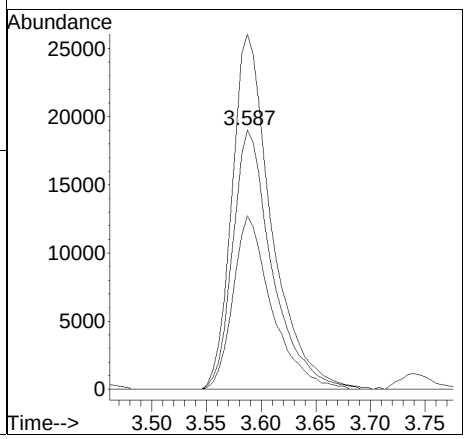


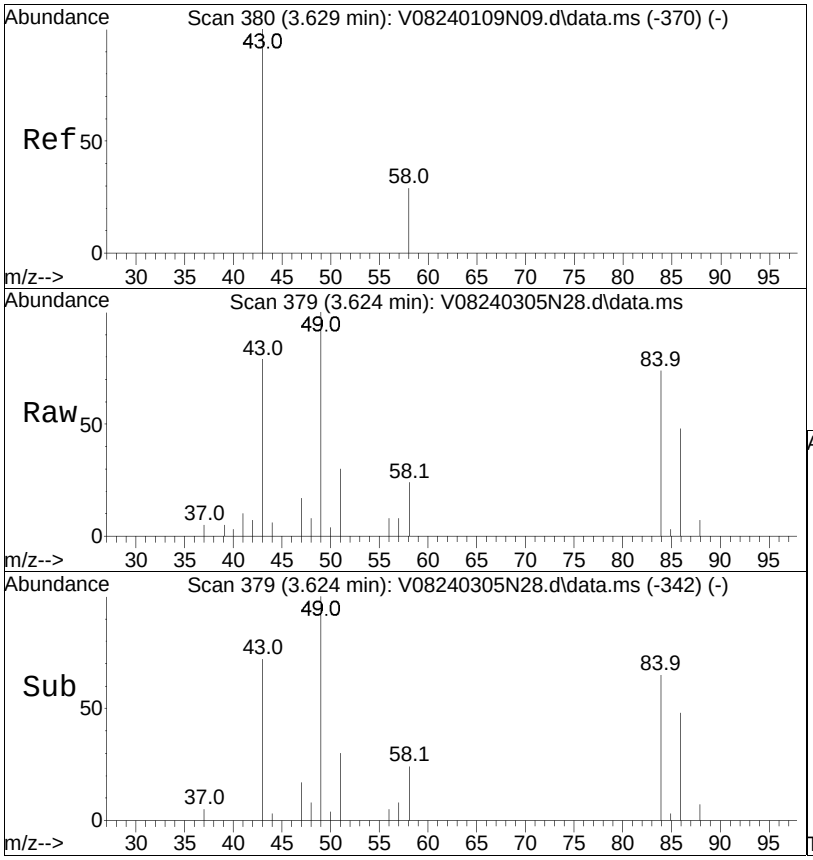


#15
Methylene chloride
Concen: 10.11 ug/L
RT: 3.587 min Scan# 372
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 84 Resp: 47918

Ion	Ratio	Lower	Upper
84	100		
86	65.9	40.4	83.8
49	137.2	120.0	249.2

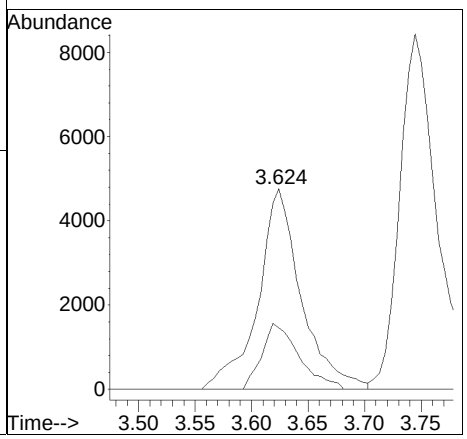


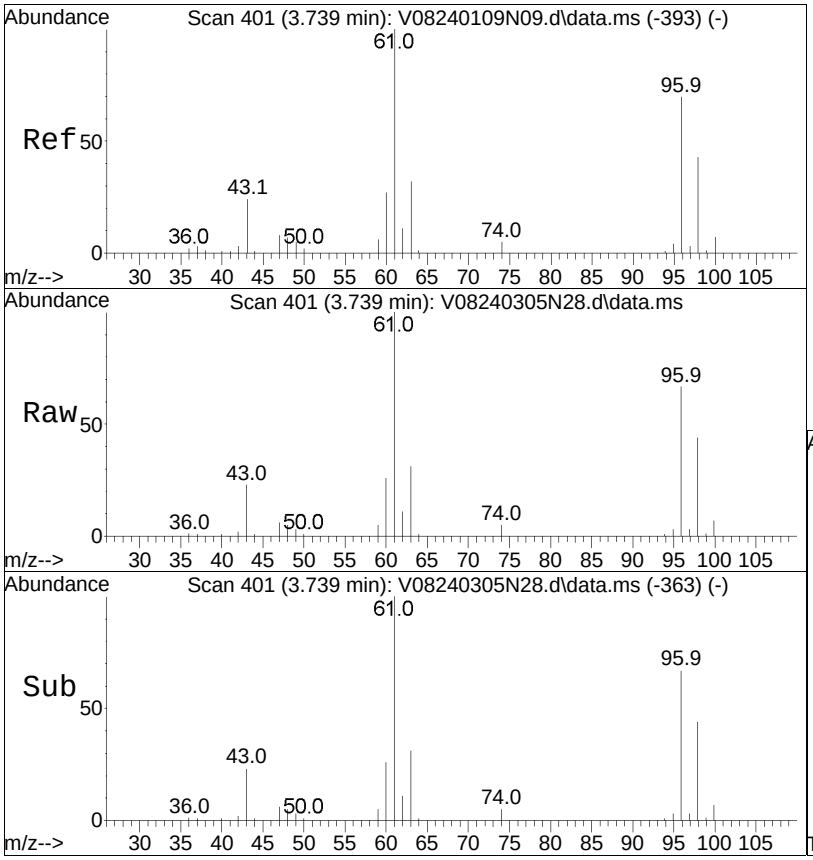


#17
Acetone
Concen: 16.47 ug/L
RT: 3.624 min Scan# 379
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 43 Resp: 12735

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.2	36.4

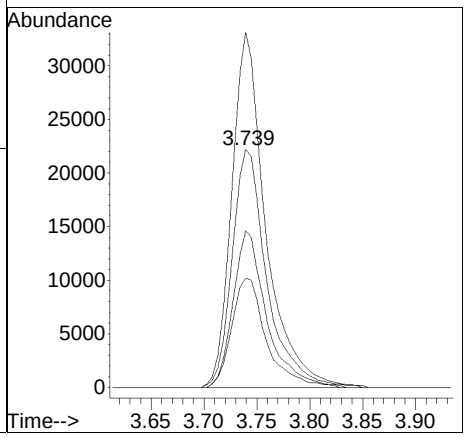


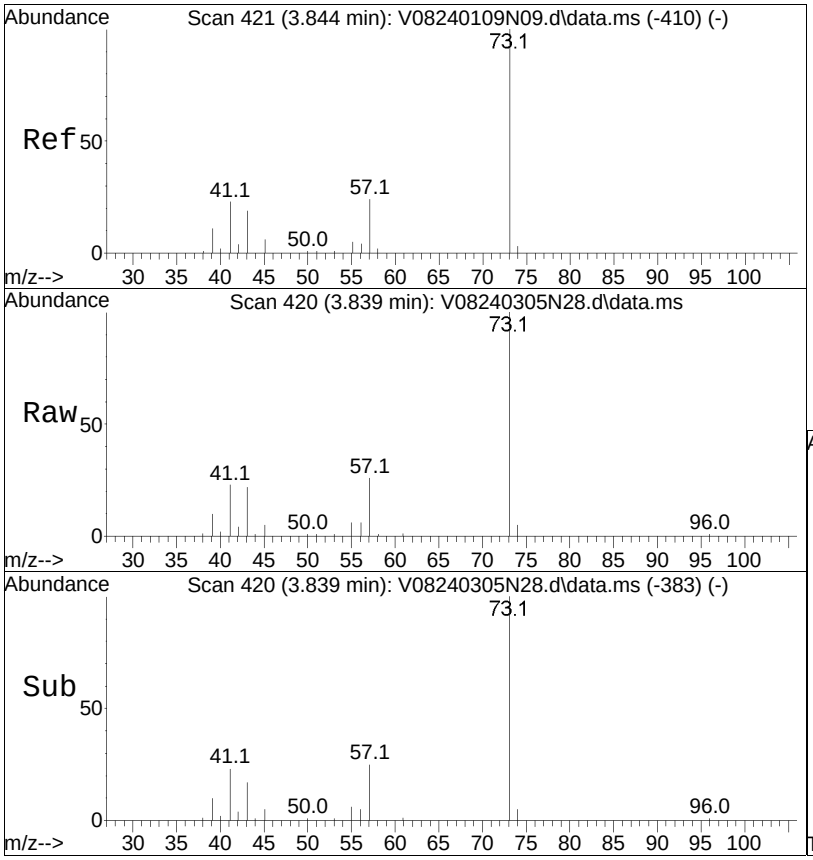


#18
trans-1,2-Dichloroethene
Concen: 10.99 ug/L
RT: 3.739 min Scan# 401
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 96 Resp: 50764

Ion	Ratio	Lower	Upper
96	100		
61	145.7	124.0	257.6
98	63.4	41.2	85.6
63	45.9	38.4	79.7

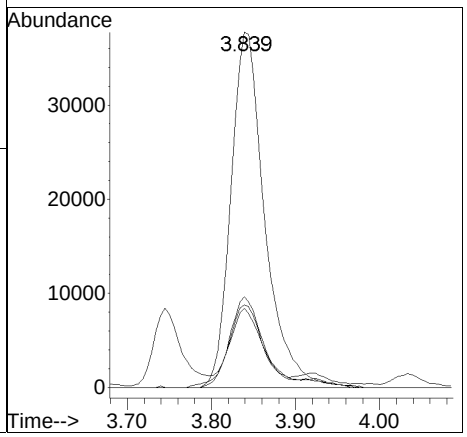


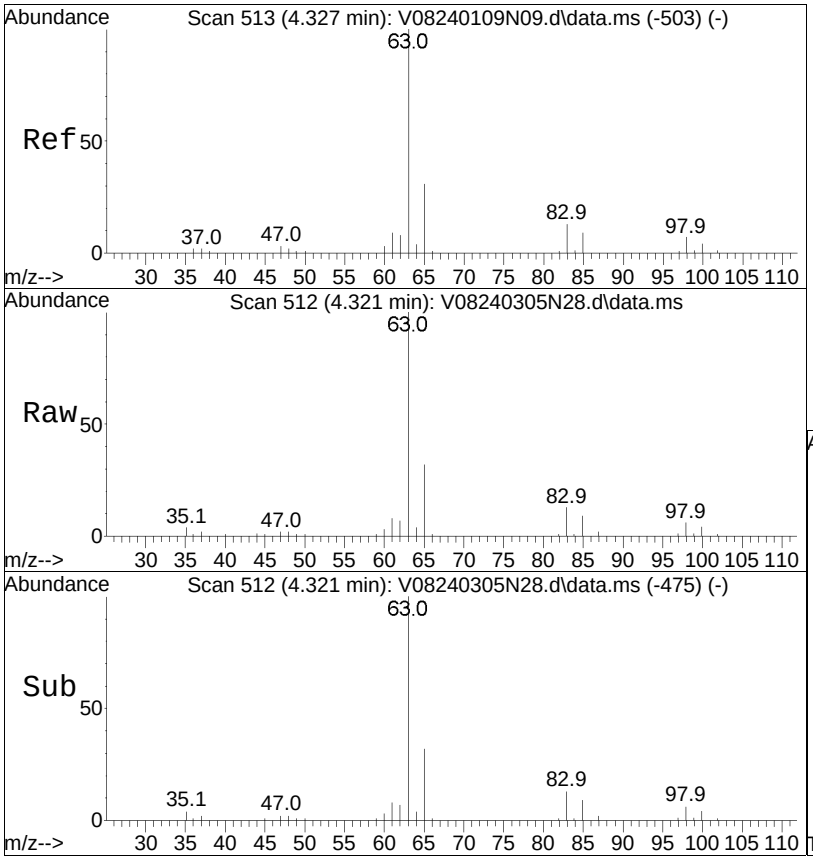


#20
Methyl tert-butyl ether
Concen: 10.05 ug/L
RT: 3.839 min Scan# 420
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 73 Resp: 105785

Ion	Ratio	Lower	Upper
73	100		
57	26.9	17.5	36.3
43	18.6	15.3	31.9
41	23.8	15.3	31.7

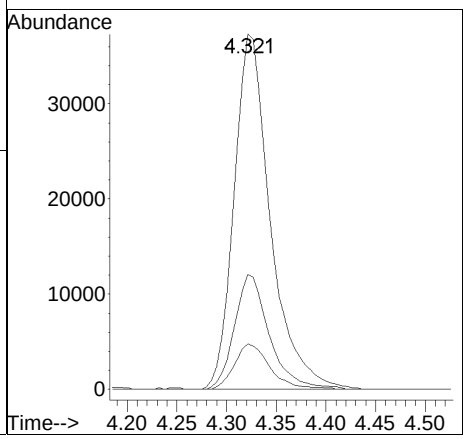


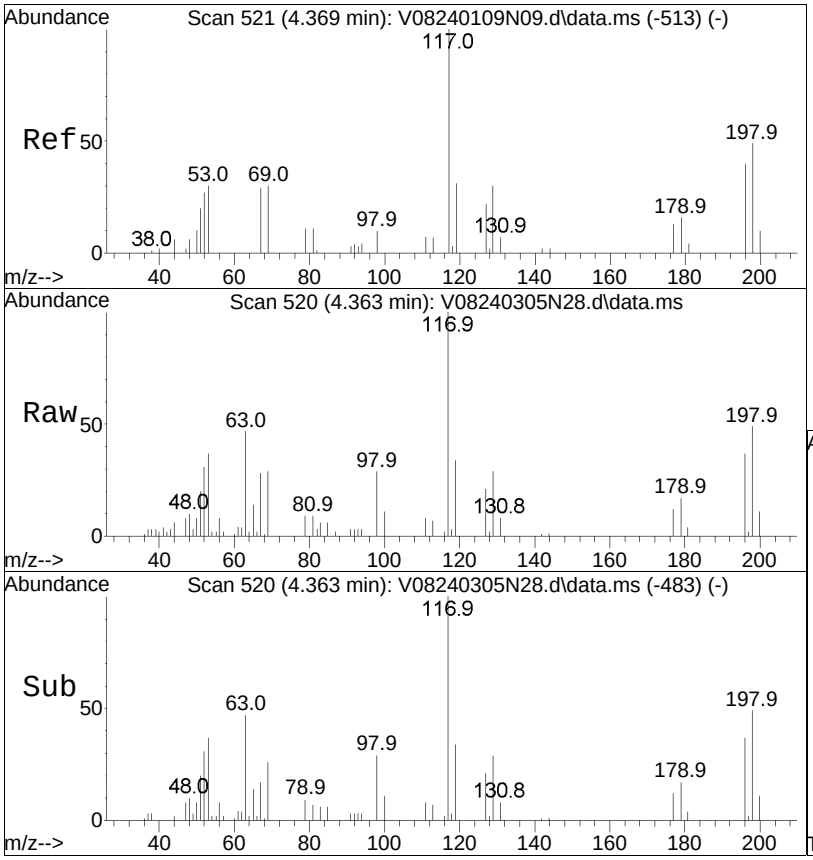


#23
1,1-Dichloroethane
Concen: 10.53 ug/L
RT: 4.321 min Scan# 512
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 63 Resp: 94974

Ion	Ratio	Lower	Upper
63	100		
65	31.2	11.0	51.0
83	12.6	0.0	31.8

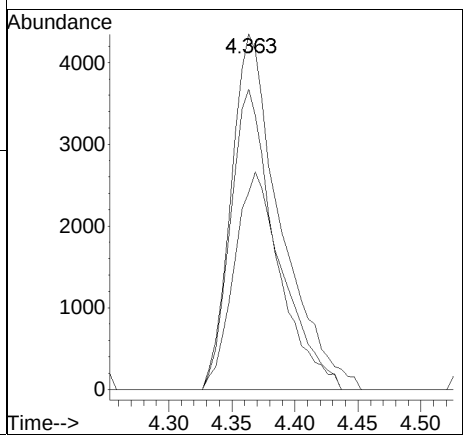


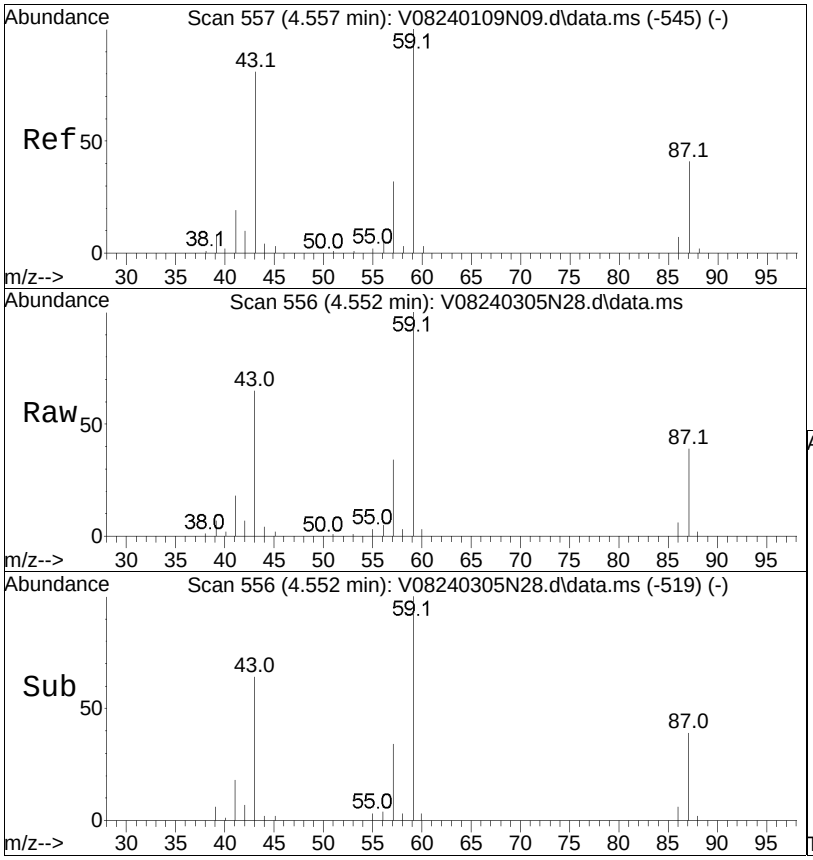


#25
Acrylonitrile
Concen: 13.04 ug/L
RT: 4.363 min Scan# 520
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 53 Resp: 11873

Ion	Ratio	Lower	Upper
53	100		
52	75.9	66.7	100.1
51	62.3	30.6	46.0#

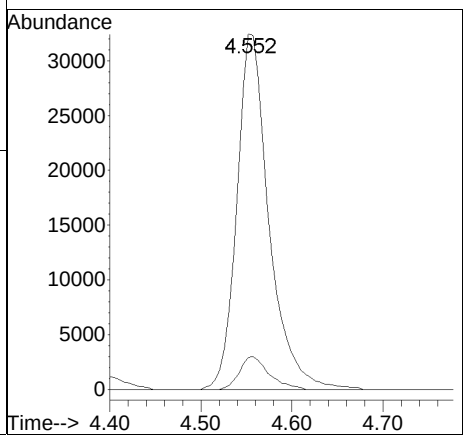


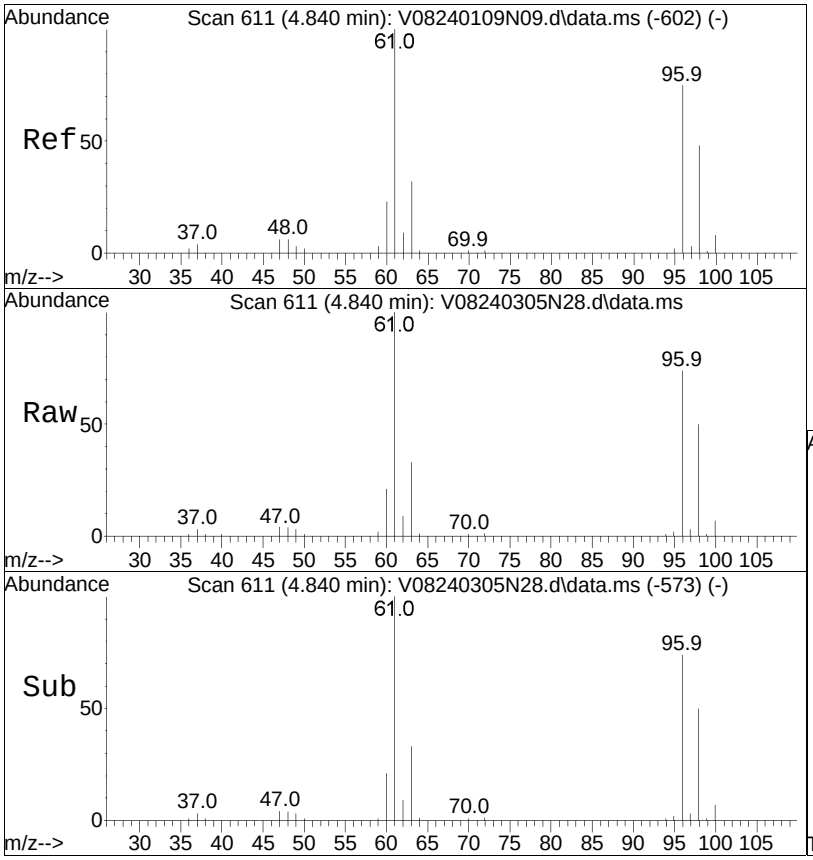


#27
Vinyl acetate
Concen: 8.96 ug/L
RT: 4.552 min Scan# 556
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 43 Resp: 79750

Ion	Ratio	Lower	Upper
43	100		
86	8.5	5.2	7.8#

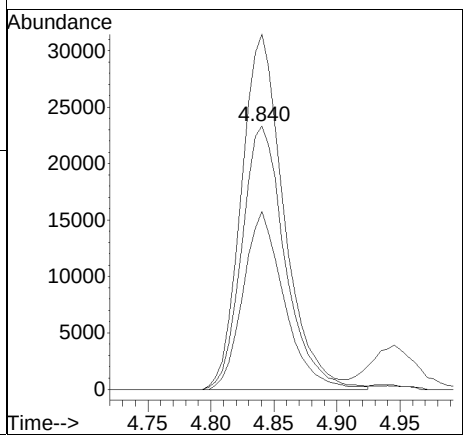


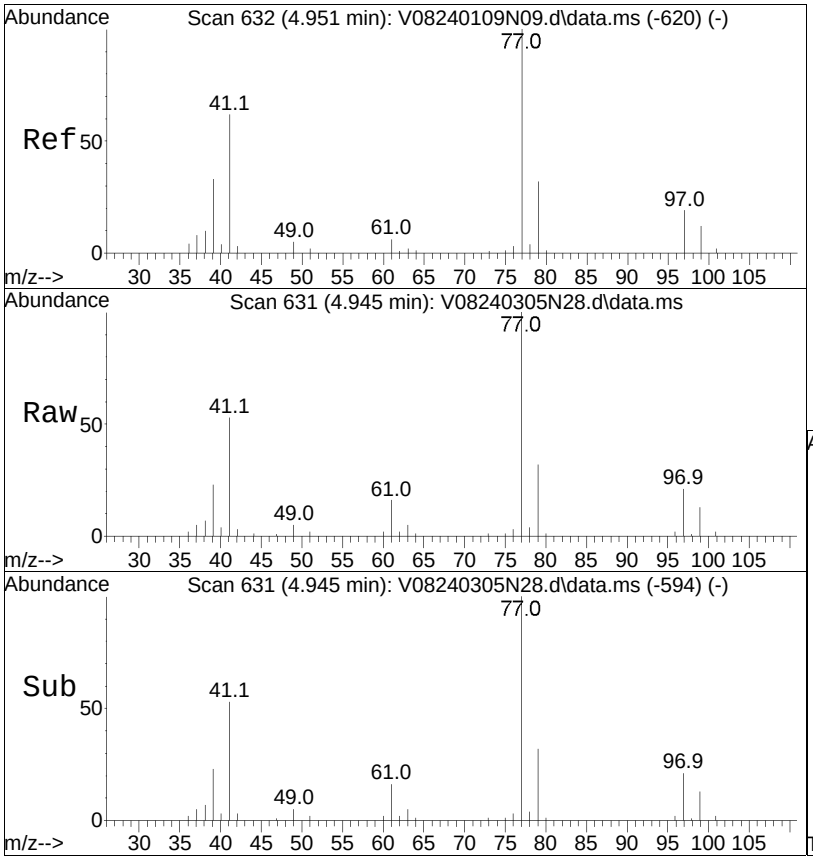


#28
cis-1,2-Dichloroethene
Concen: 10.46 ug/L
RT: 4.840 min Scan# 611
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 96 Resp: 55631

Ion	Ratio	Lower	Upper
96	100		
61	132.8	149.4	224.2#
98	64.1	53.4	80.2

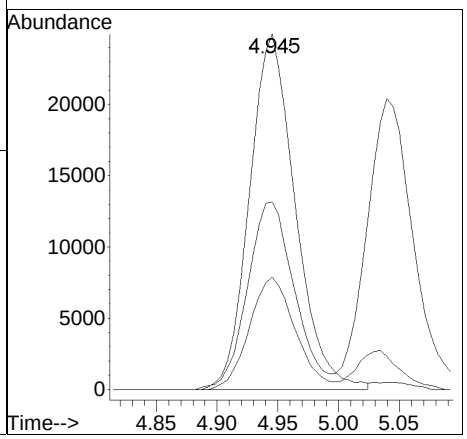


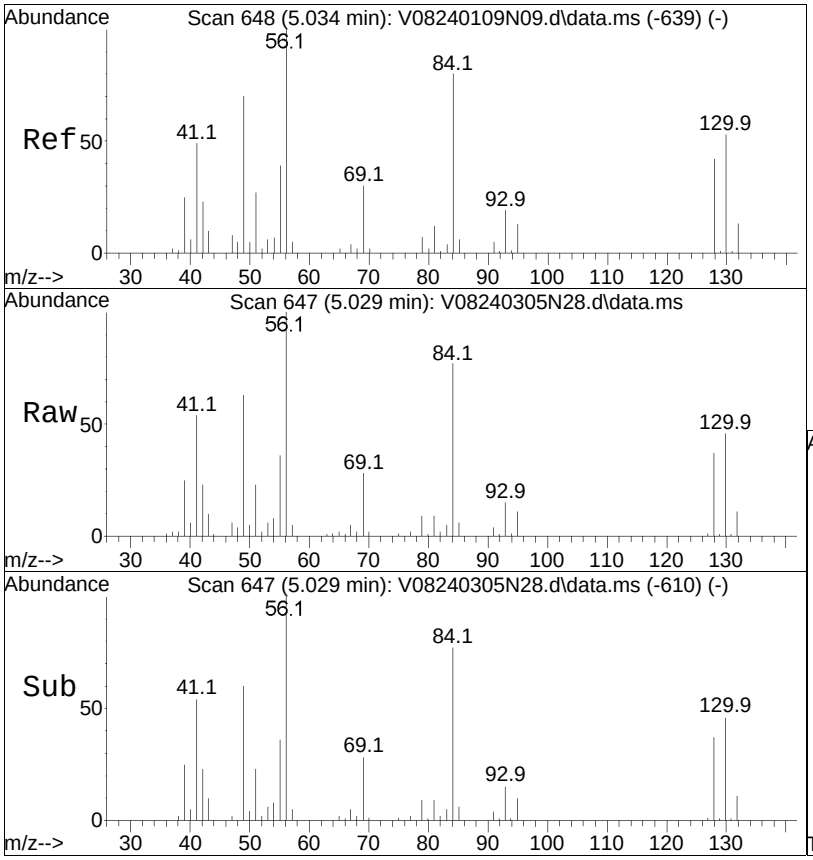


#29
2,2-Dichloropropane
Concen: 8.93 ug/L
RT: 4.945 min Scan# 631
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 77 Resp: 65298

Ion	Ratio	Lower	Upper
77	100		
41	54.0	38.0	78.8
79	31.7	20.5	42.5

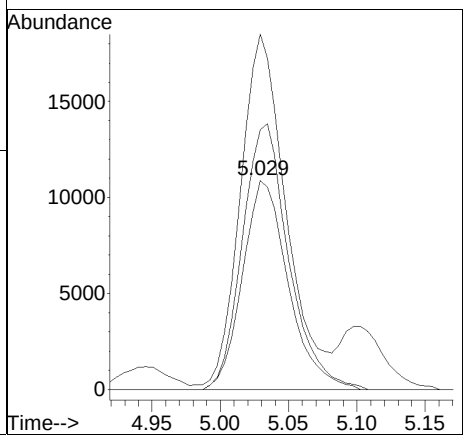


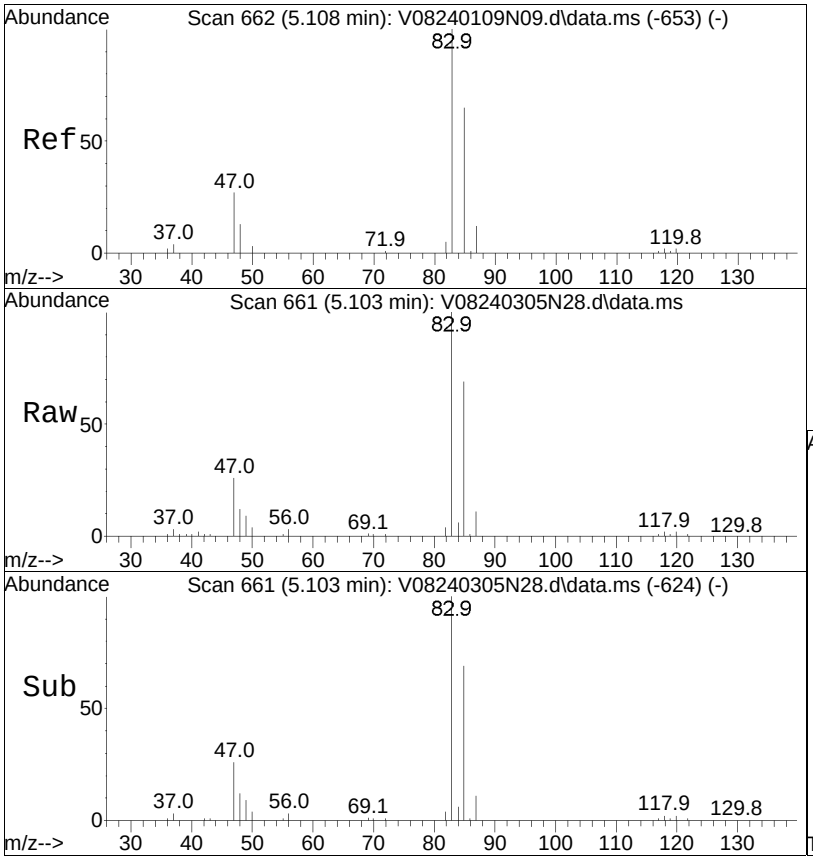


#30
Bromochloromethane
Concen: 10.24 ug/L
RT: 5.029 min Scan# 647
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:128 Resp: 25394

Ion	Ratio	Lower	Upper
128	100		
49	171.0	223.0	334.4#
130	128.6	111.4	167.0

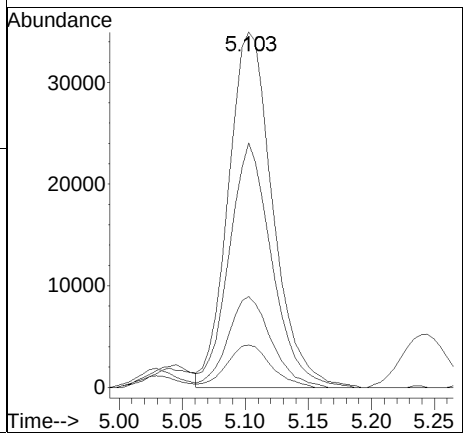


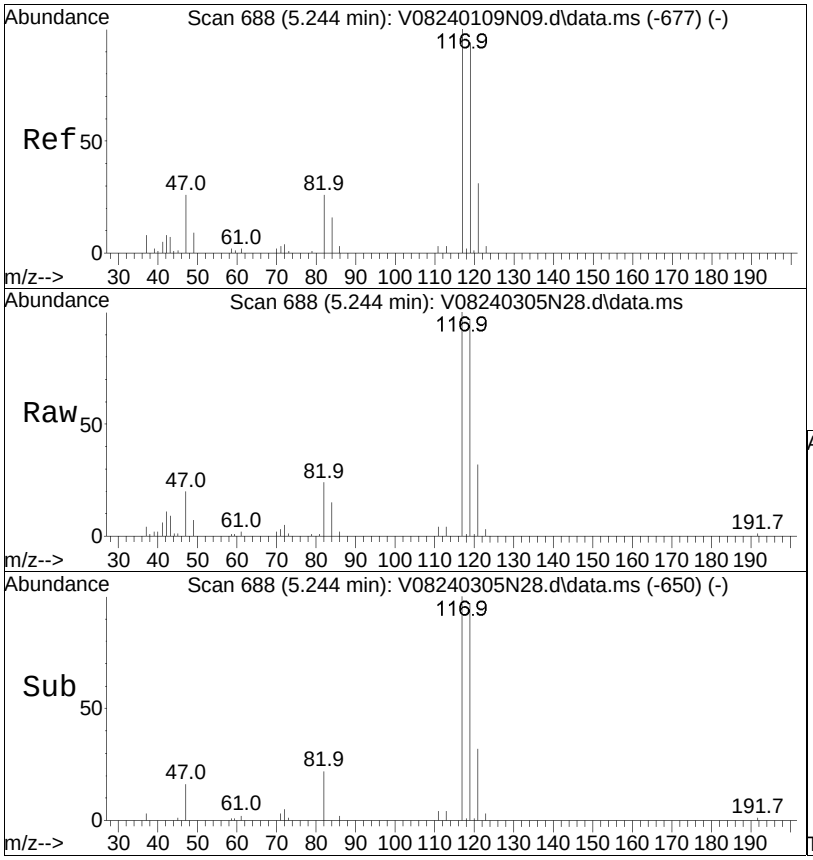


#32
Chloroform
Concen: 10.03 ug/L
RT: 5.103 min Scan# 661
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 83 Resp: 86006

Ion	Ratio	Lower	Upper
83	100		
85	66.3	41.5	86.1
47	25.1	19.0	39.4
48	11.9	9.9	20.5

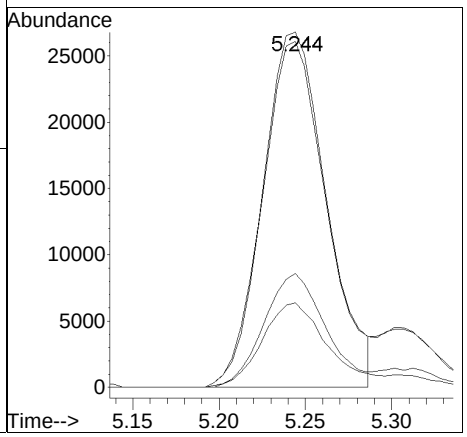


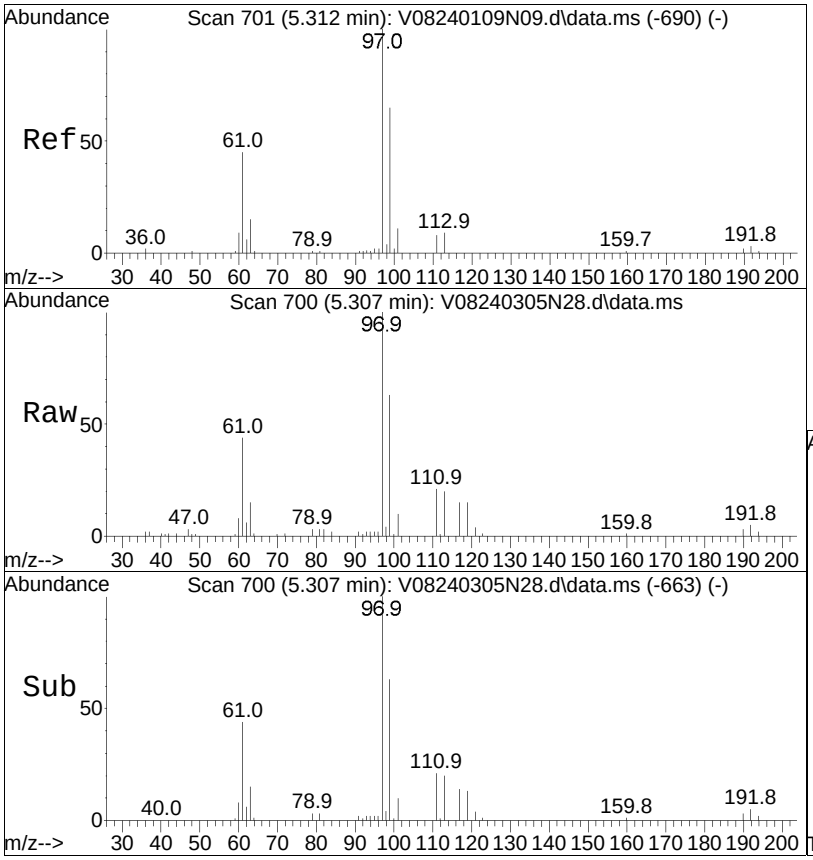


#34
Carbon tetrachloride
Concen: 10.34 ug/L
RT: 5.244 min Scan# 688
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:117 Resp: 69216

Ion	Ratio	Lower	Upper
117	100		
119	98.4	62.4	129.6
121	31.0	19.5	40.5
82	24.7	17.0	35.4

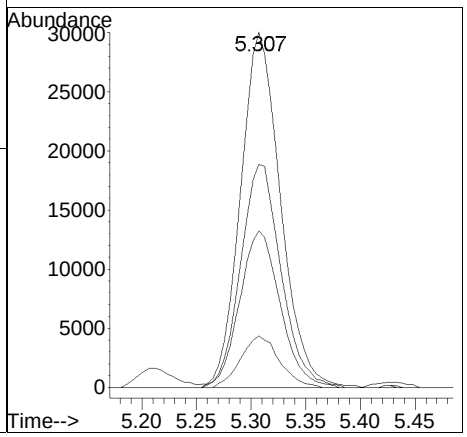


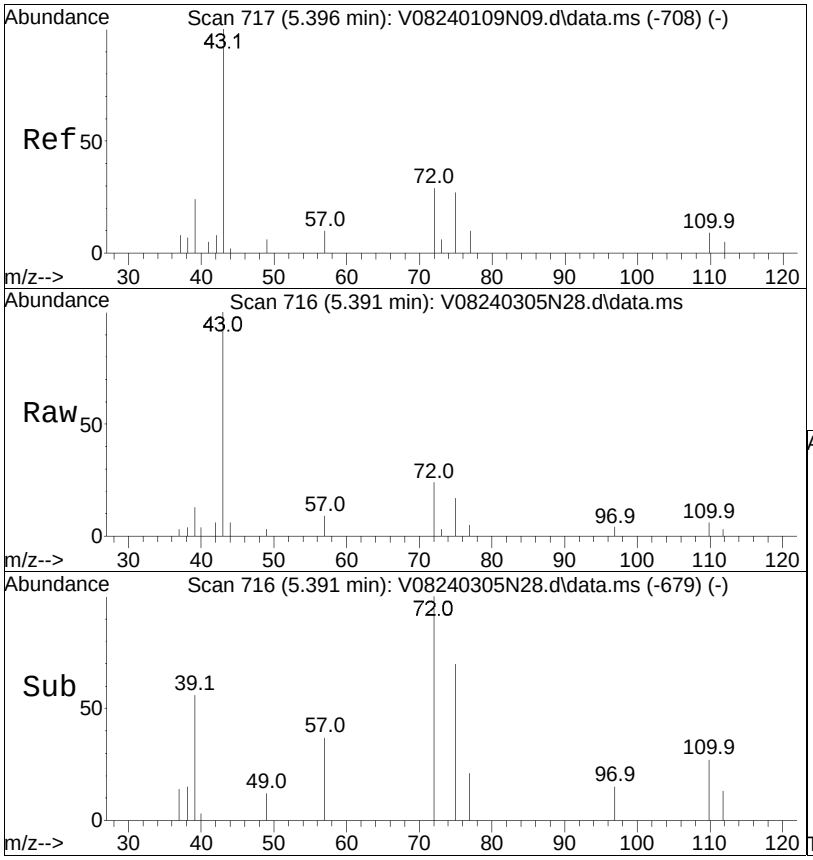


#37
1,1,1-Trichloroethane
Concen: 10.19 ug/L
RT: 5.307 min Scan# 700
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 97 Resp: 76606

Ion	Ratio	Lower	Upper
97	100		
99	63.3	40.7	84.5
61	44.7	35.4	73.4
63	14.0	5.0	10.4#

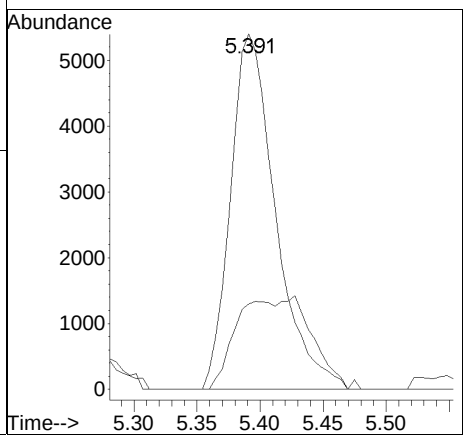


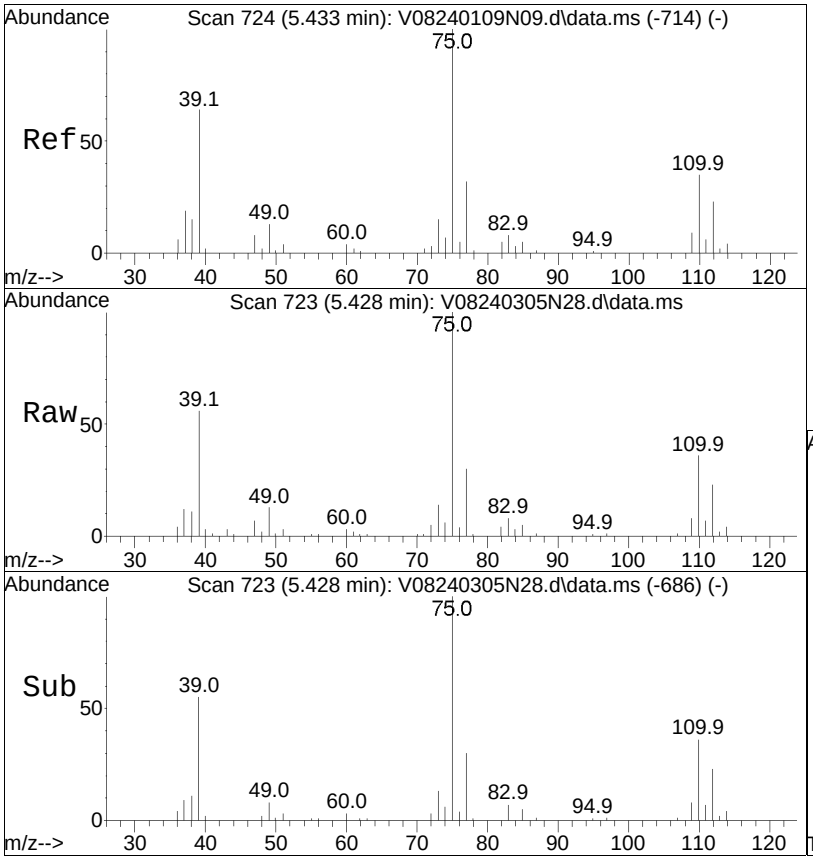


#39
2-Butanone
Concen: 11.19 ug/L
RT: 5.391 min Scan# 716
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 43 Resp: 13468

Ion	Ratio	Lower	Upper
43	100		
72	23.0	10.9	16.3#

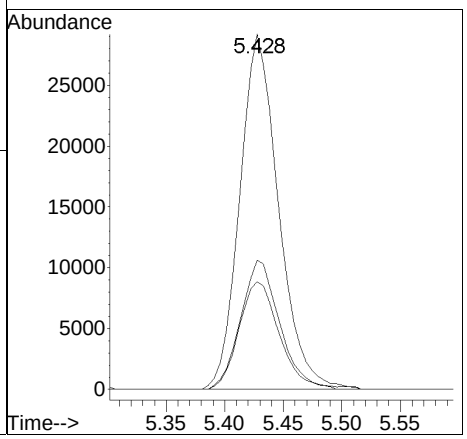


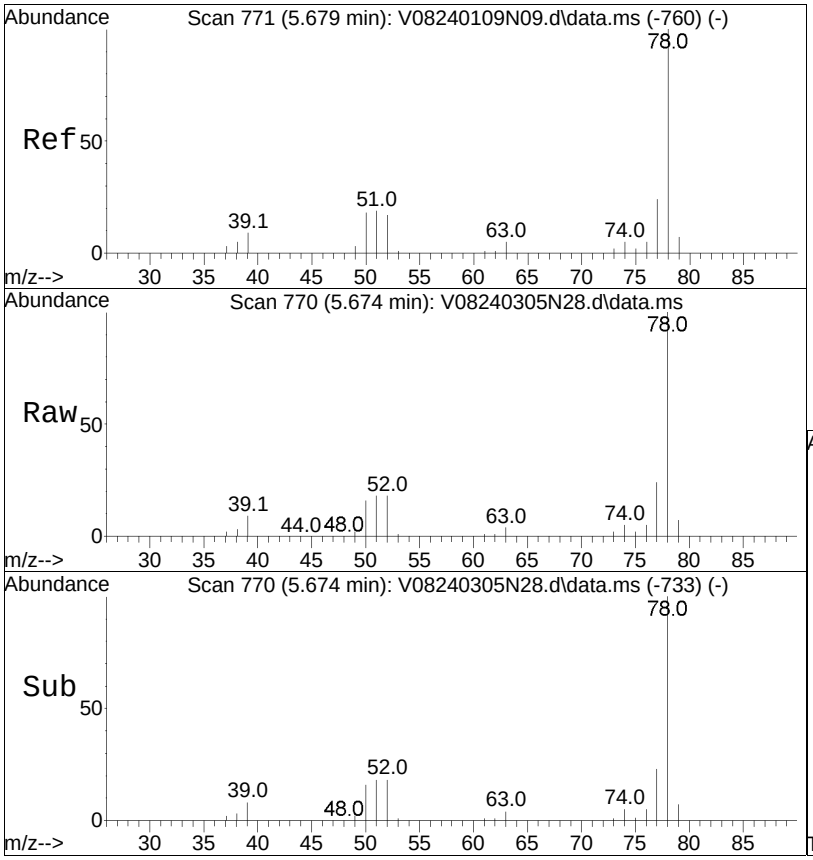


#40
1,1-Dichloropropene
Concen: 10.62 ug/L
RT: 5.428 min Scan# 723
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 75 Resp: 67333

Ion	Ratio	Lower	Upper
75	100		
110	36.5	20.2	41.9
77	31.9	20.1	41.7

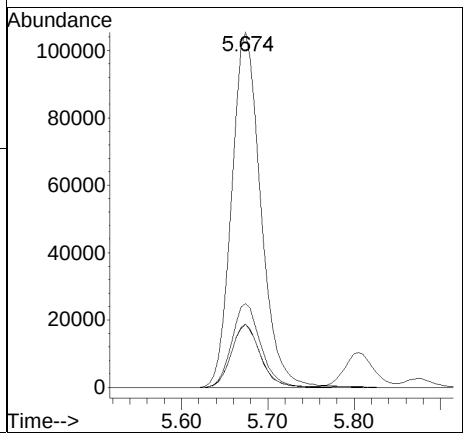


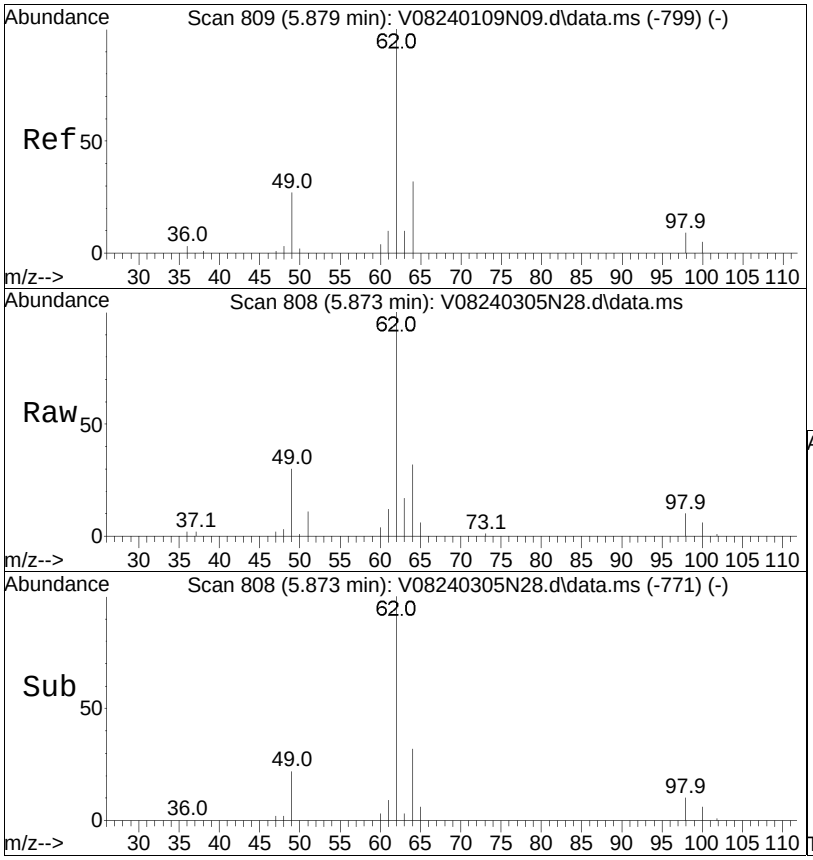


#41
Benzene
Concen: 13.36 ug/L
RT: 5.674 min Scan# 770
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 78 Resp: 246864

Ion	Ratio	Lower	Upper
78	100		
77	23.5	15.7	32.7
51	17.6	16.0	33.2
52	17.6	15.3	31.9

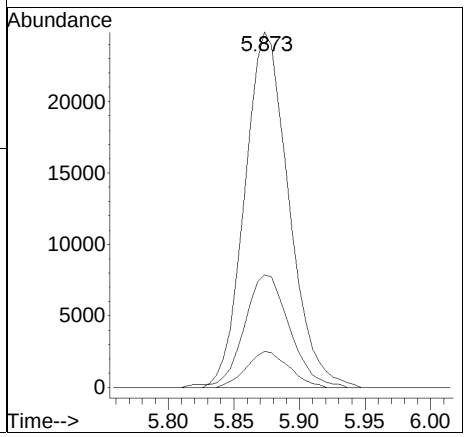


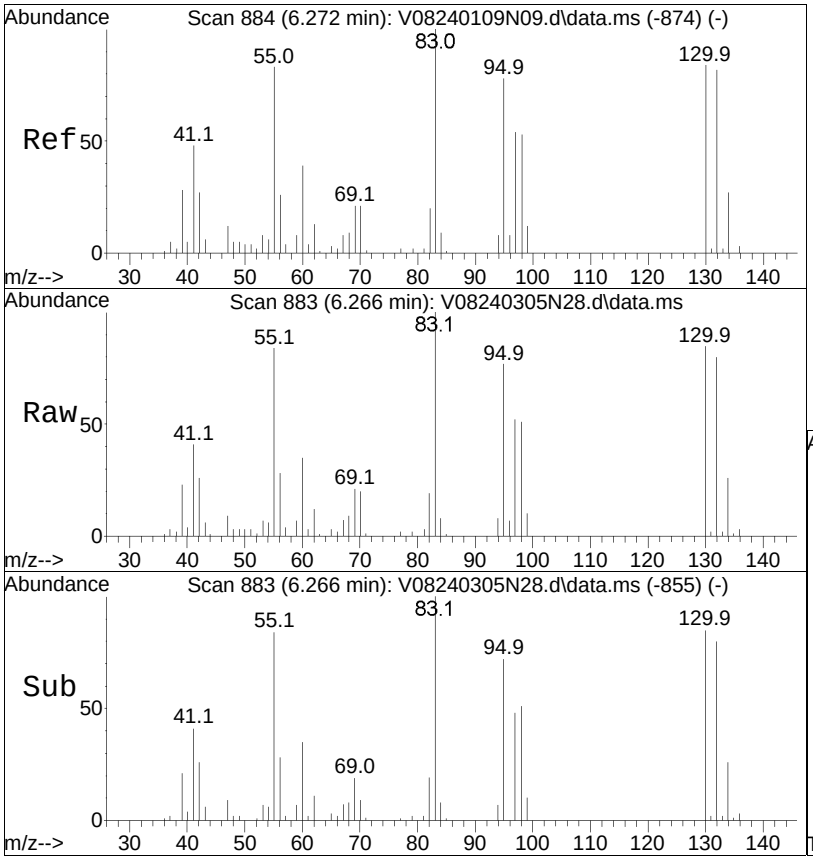


#44
1,2-Dichloroethane
Concen: 9.46 ug/L
RT: 5.873 min Scan# 808
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 62 Resp: 58026

Ion	Ratio	Lower	Upper
62	100		
64	32.7	11.2	51.2
98	9.8	0.0	26.1

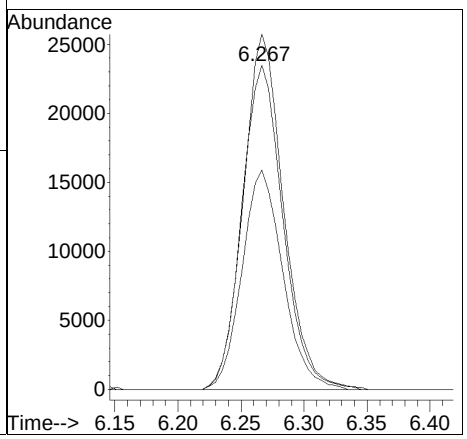


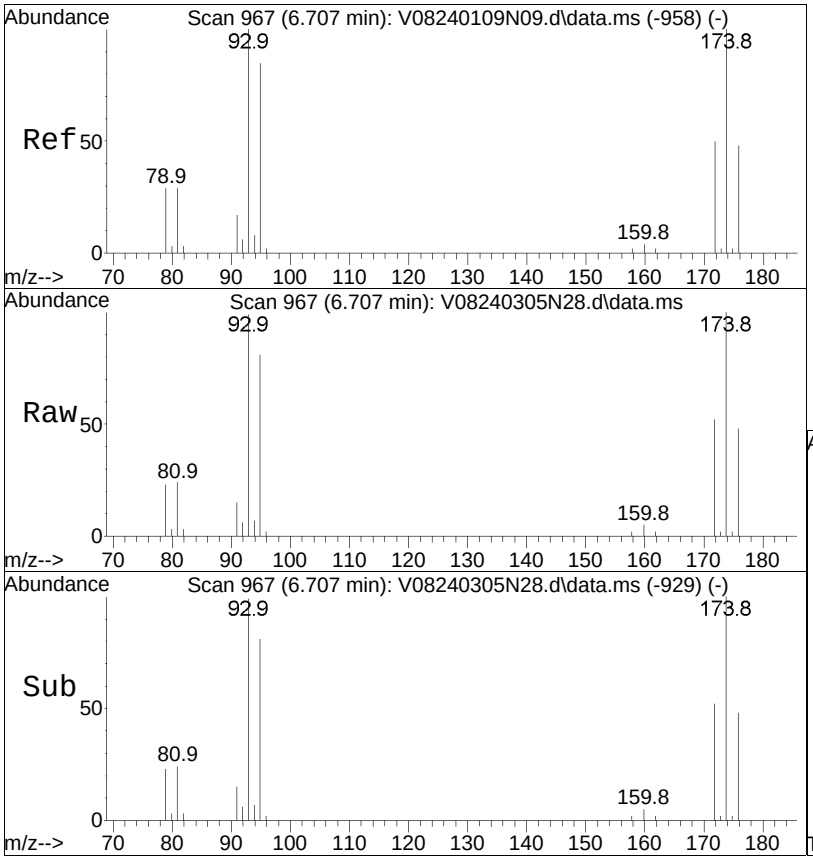


#48
Trichloroethene
Concen: 10.96 ug/L
RT: 6.266 min Scan# 883
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 95 Resp: 52990

Ion	Ratio	Lower	Upper
95	100		
97	67.7	55.5	83.3
130	108.4	76.6	115.0

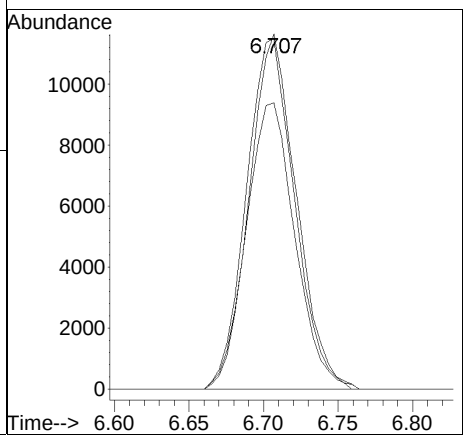


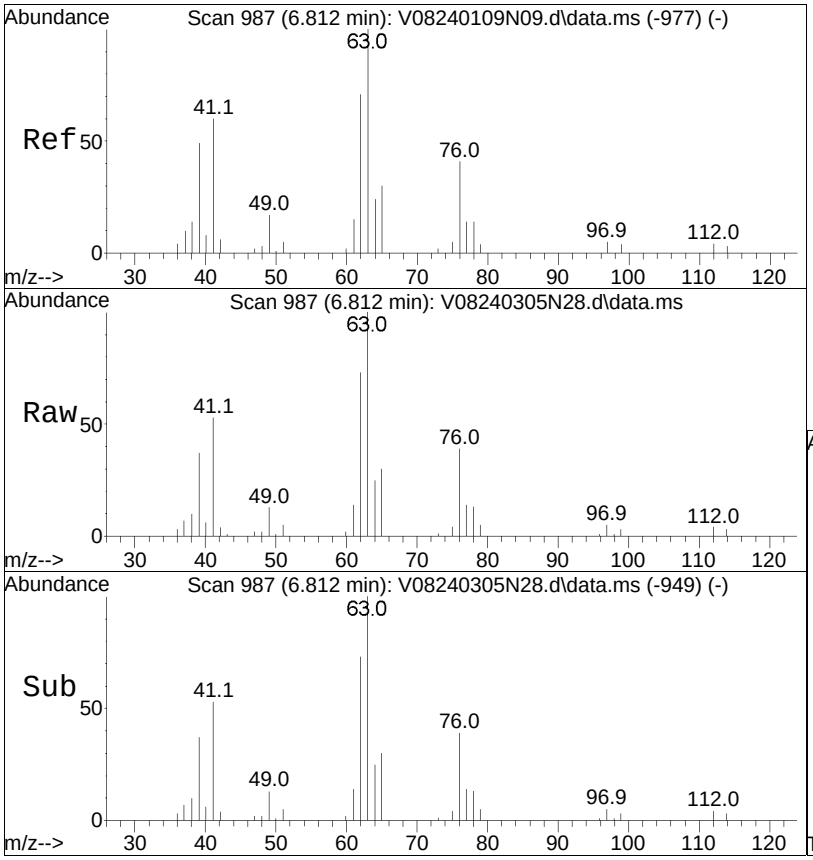


#50
Dibromomethane
Concen: 9.65 ug/L
RT: 6.707 min Scan# 967
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 93 Resp: 25916

Ion	Ratio	Lower	Upper
93	100		
95	82.5	67.0	100.4
174	98.7	75.0	112.4

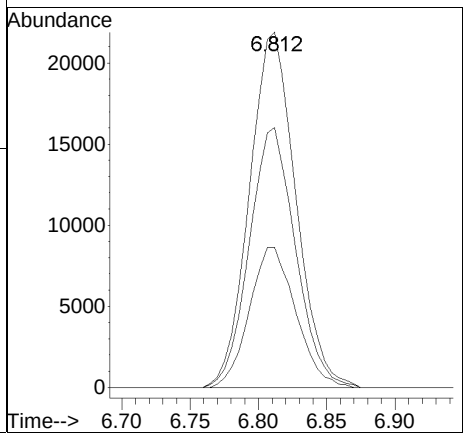


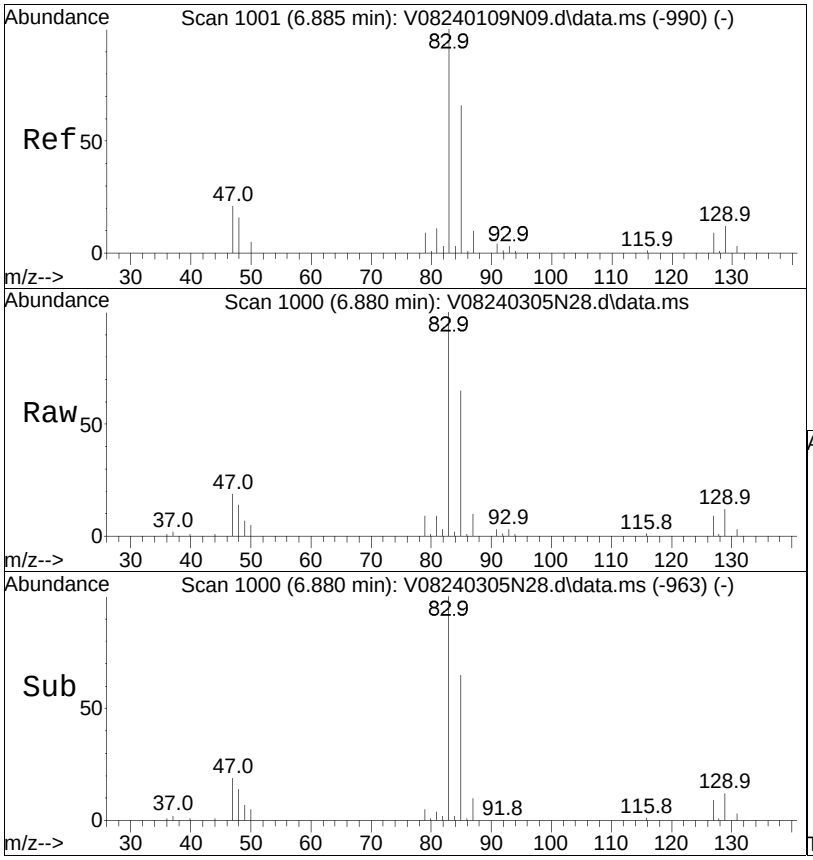


#51
1,2-Dichloropropane
Concen: 10.36 ug/L
RT: 6.812 min Scan# 987
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 63 Resp: 51796

Ion	Ratio	Lower	Upper
63	100		
62	72.6	58.6	87.8
76	39.4	38.0	57.0

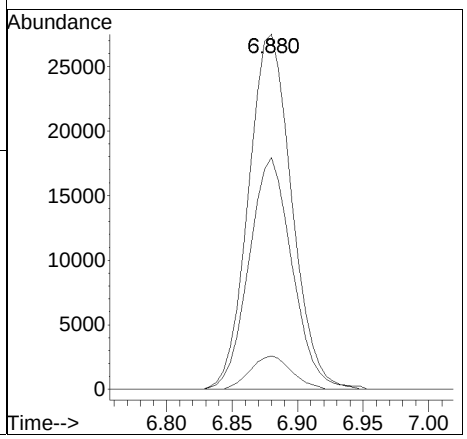


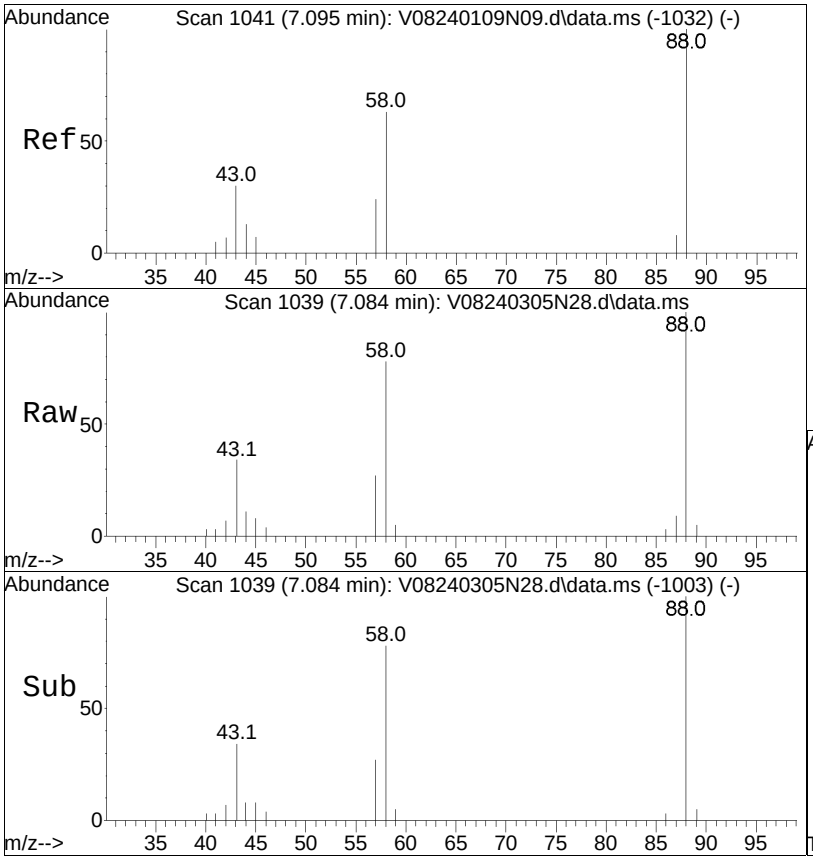


#54
Bromodichloromethane
Concen: 9.62 ug/L
RT: 6.880 min Scan# 1000
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 83 Resp: 63179

Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.3	78.5
127	9.0	6.2	9.4

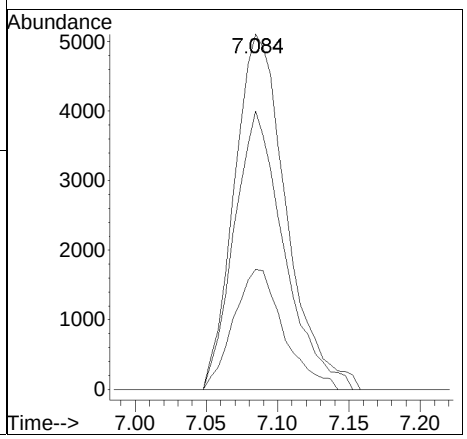


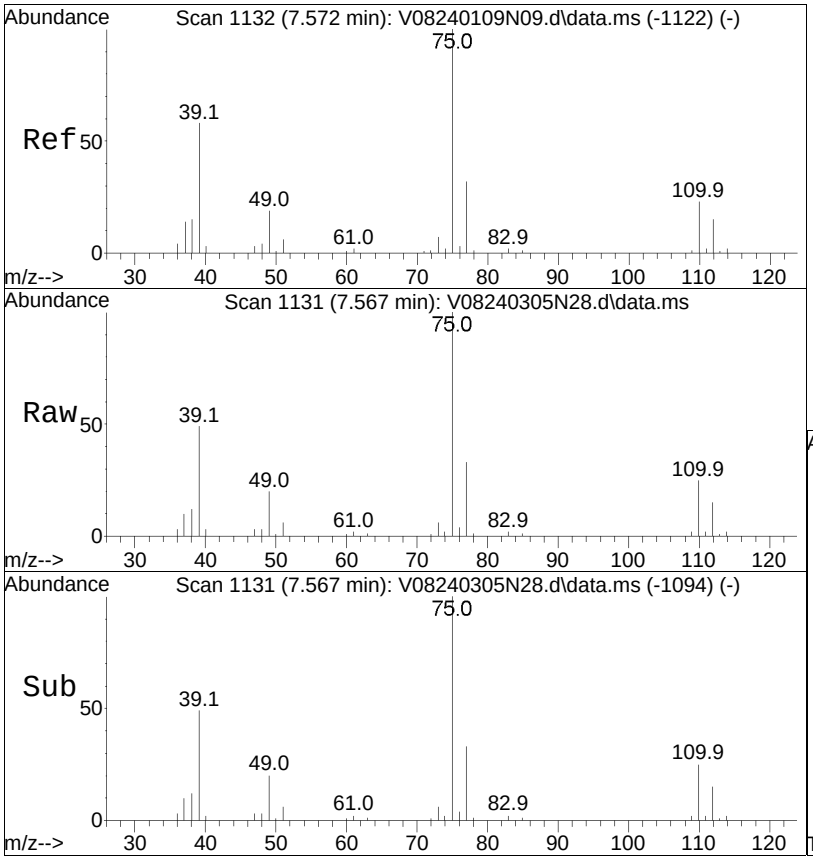


#57
1,4-Dioxane
Concen: 751.46 ug/L
RT: 7.084 min Scan# 1039
Delta R.T. -0.010 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 88 Resp: 12972

Ion	Ratio	Lower	Upper
88	100		
58	75.3	76.7	115.1#
43	32.5	36.2	54.2#

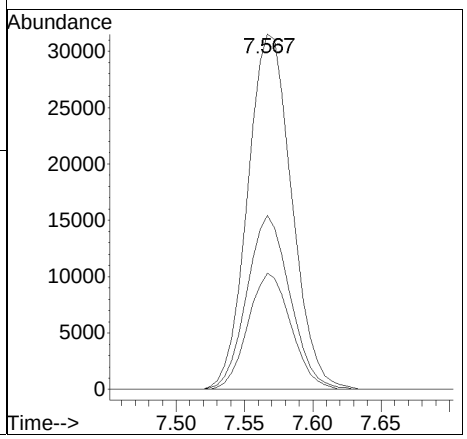


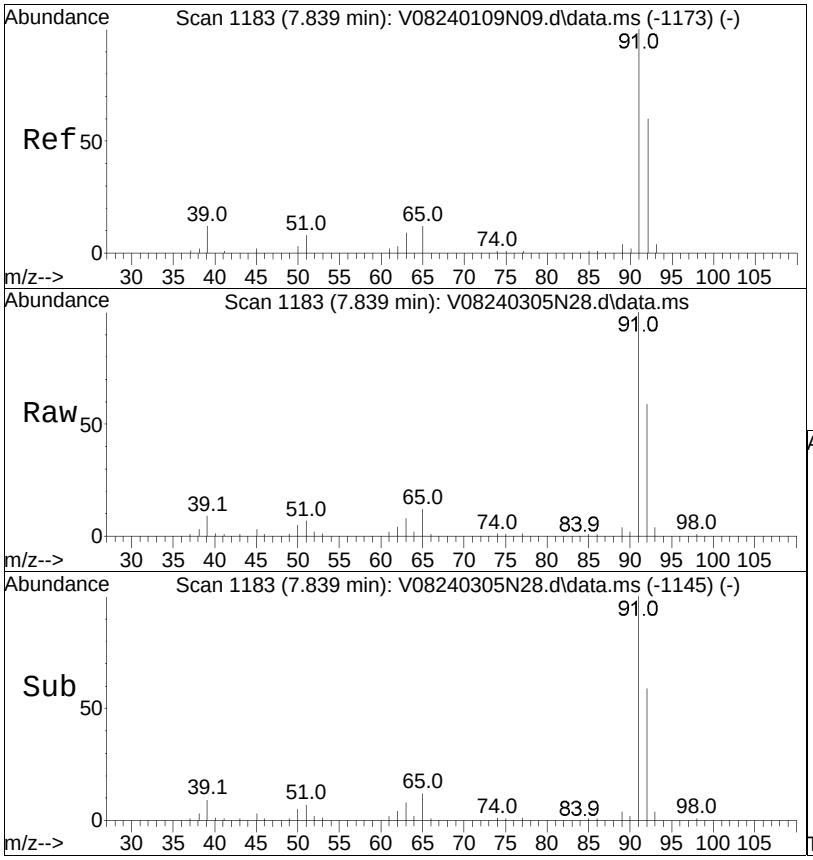


#58
cis-1,3-Dichloropropene
Concen: 9.26 ug/L
RT: 7.567 min Scan# 1131
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 75 Resp: 70729

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4
39	48.0	50.1	75.1#

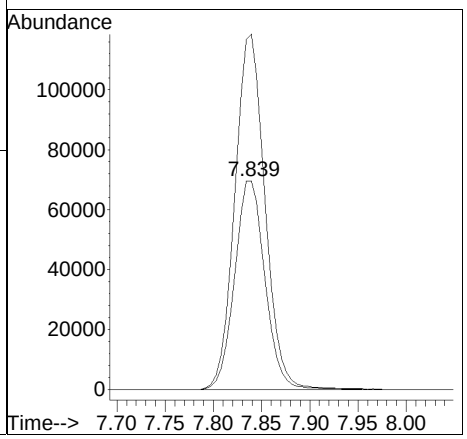


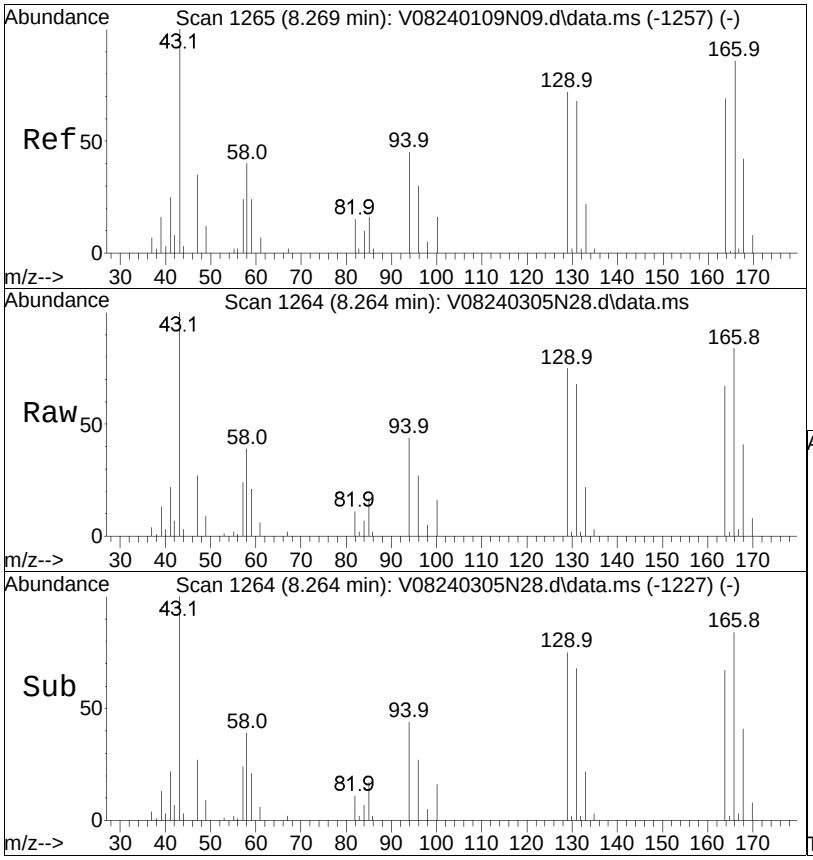


#61
Toluene
Concen: 13.11 ug/L
RT: 7.839 min Scan# 1183
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 92 Resp: 152138

Ion	Ratio	Lower	Upper
92	100		
91	169.0	139.8	209.6

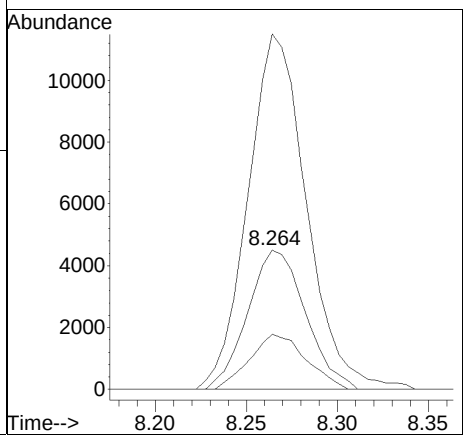


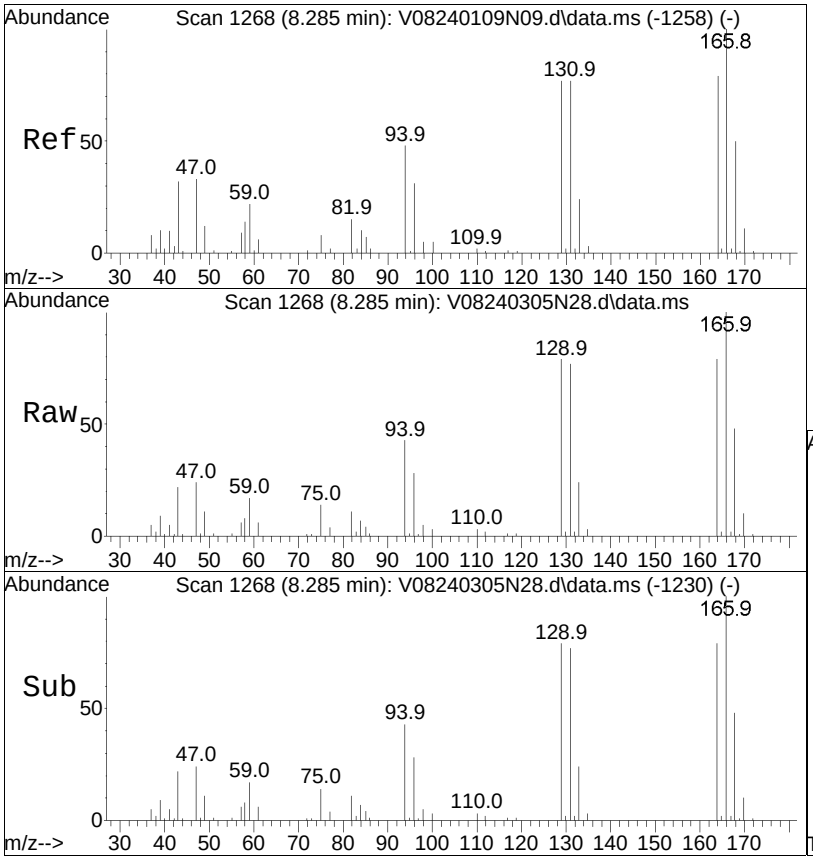


#62
4-Methyl-2-pentanone
Concen: 8.76 ug/L
RT: 8.264 min Scan# 1264
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 58 Resp: 9950

Ion	Ratio	Lower	Upper
58	100		
100	38.6	20.2	30.2#
43	258.7	196.6	295.0

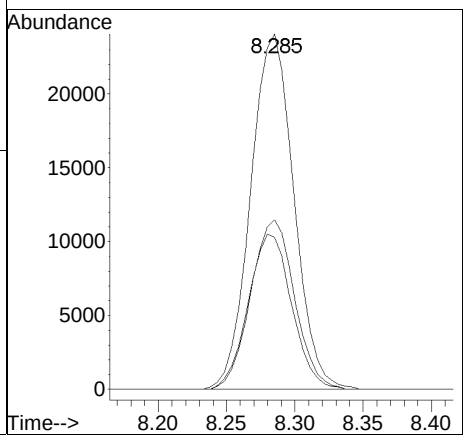


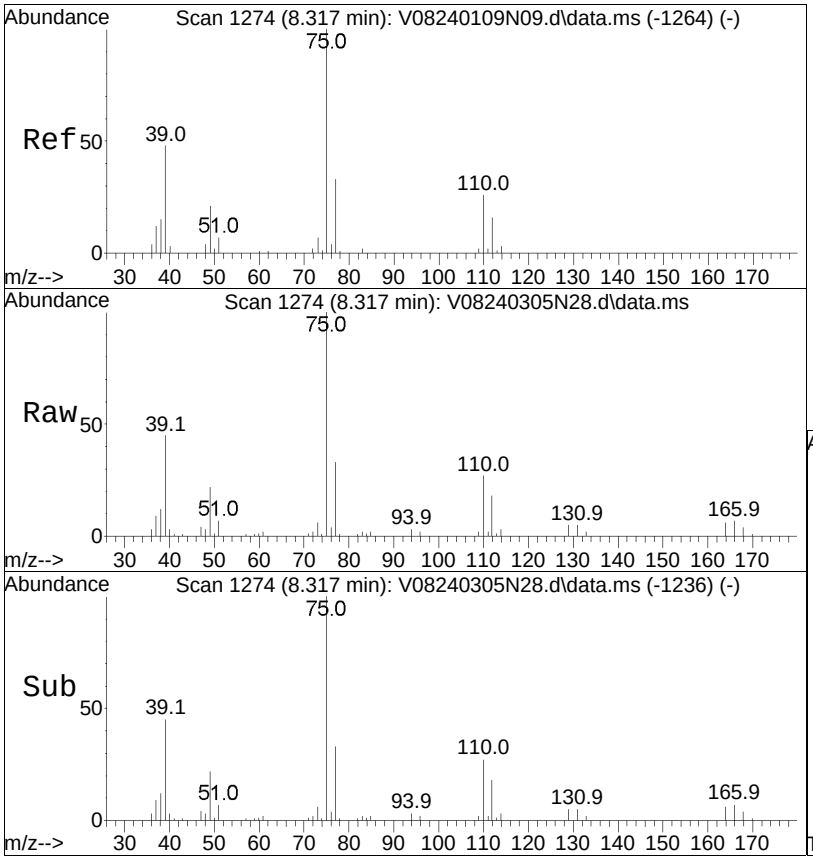


#63
Tetrachloroethene
Concen: 10.68 ug/L
RT: 8.285 min Scan# 1268
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:166 Resp: 52966

Ion	Ratio	Lower	Upper
166	100		
168	48.4	28.2	68.2
94	43.9	38.4	78.4

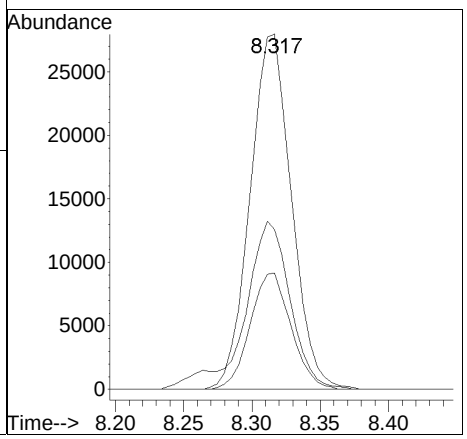


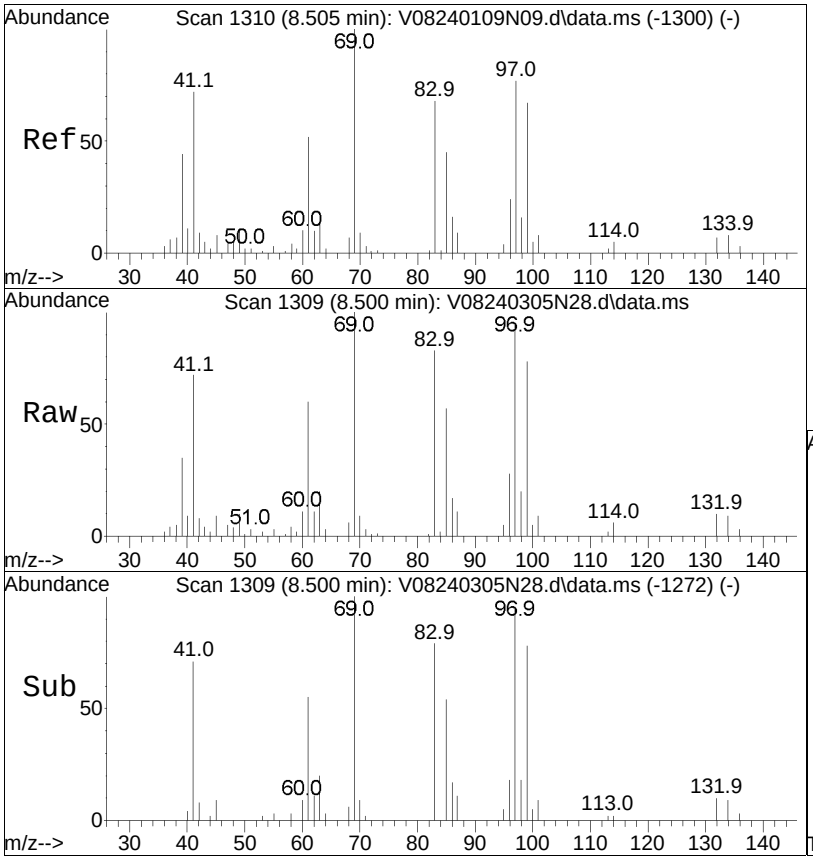


#65
trans-1,3-Dichloropropene
Concen: 9.20 ug/L
RT: 8.317 min Scan# 1274
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 75 Resp: 58938

Ion	Ratio	Lower	Upper
75	100		
77	32.3	12.4	52.4
39	52.1	42.8	82.8

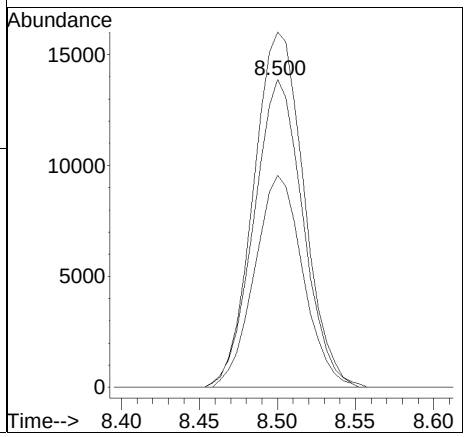


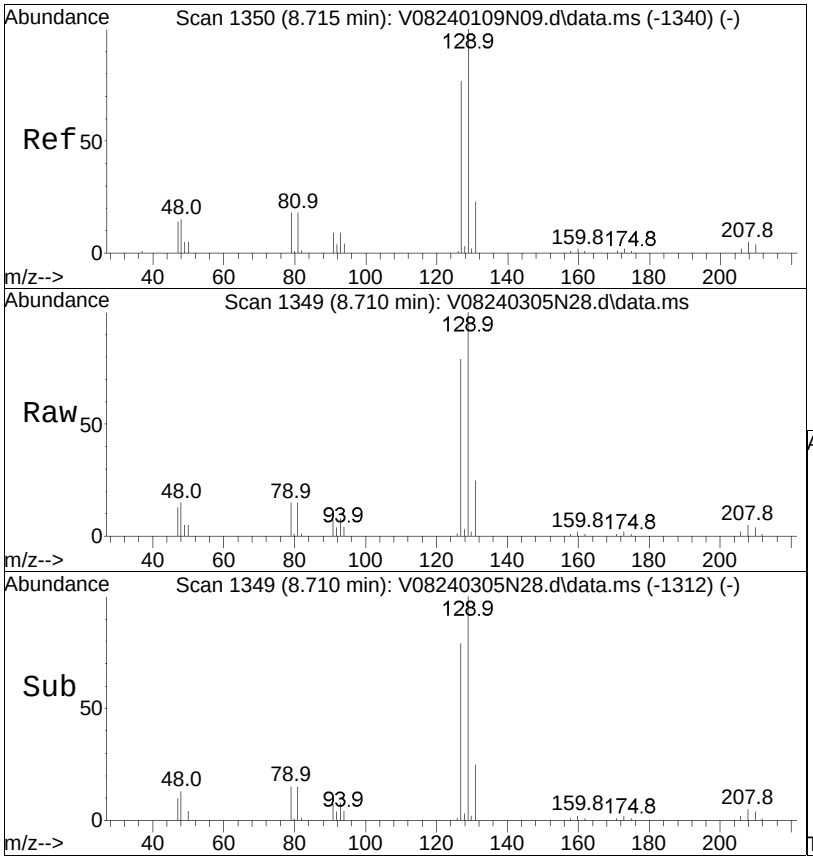


#68
1,1,2-Trichloroethane
Concen: 10.39 ug/L
RT: 8.500 min Scan# 1309
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 83 Resp: 30379

Ion	Ratio	Lower	Upper
83	100		
97	118.5	89.8	129.8
85	68.0	44.4	84.4

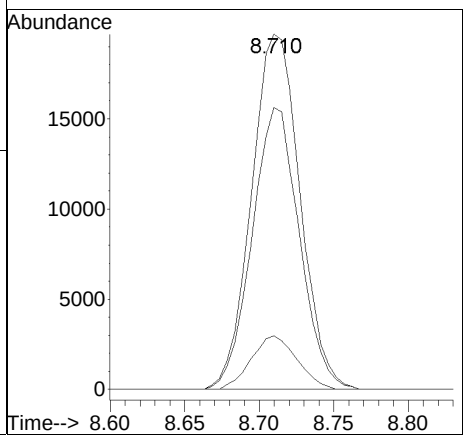


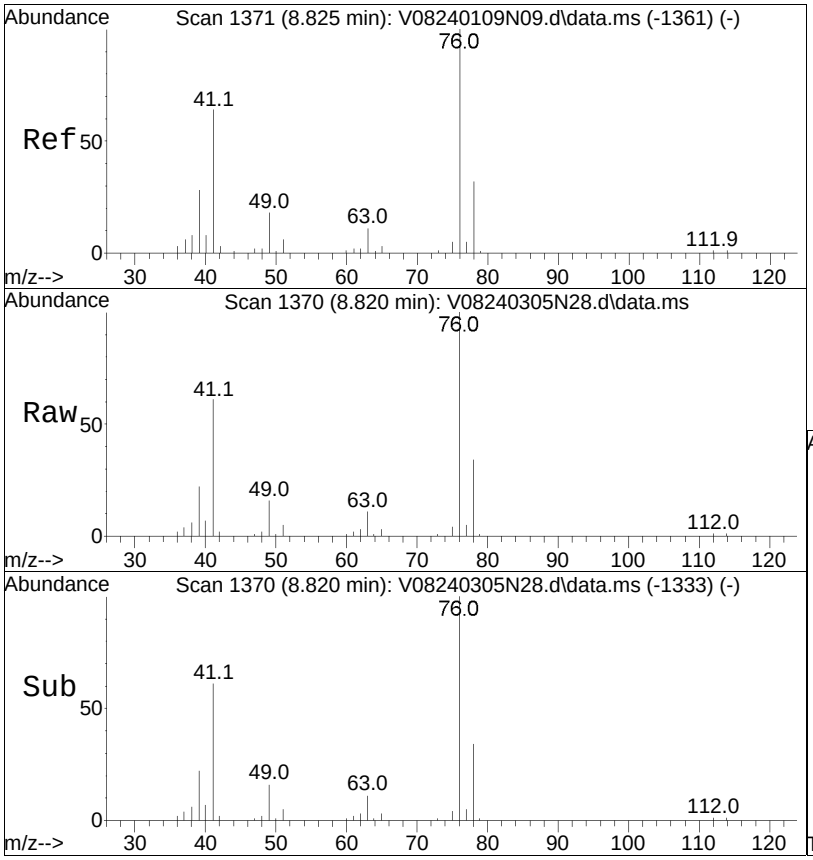


#69
Chlorodibromomethane
Concen: 9.59 ug/L
RT: 8.710 min Scan# 1349
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:129 Resp: 44610

Ion	Ratio	Lower	Upper
129	100		
81	14.2	2.9	42.9
127	77.2	57.8	97.8

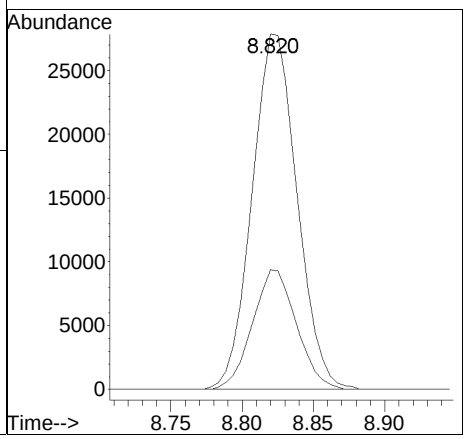


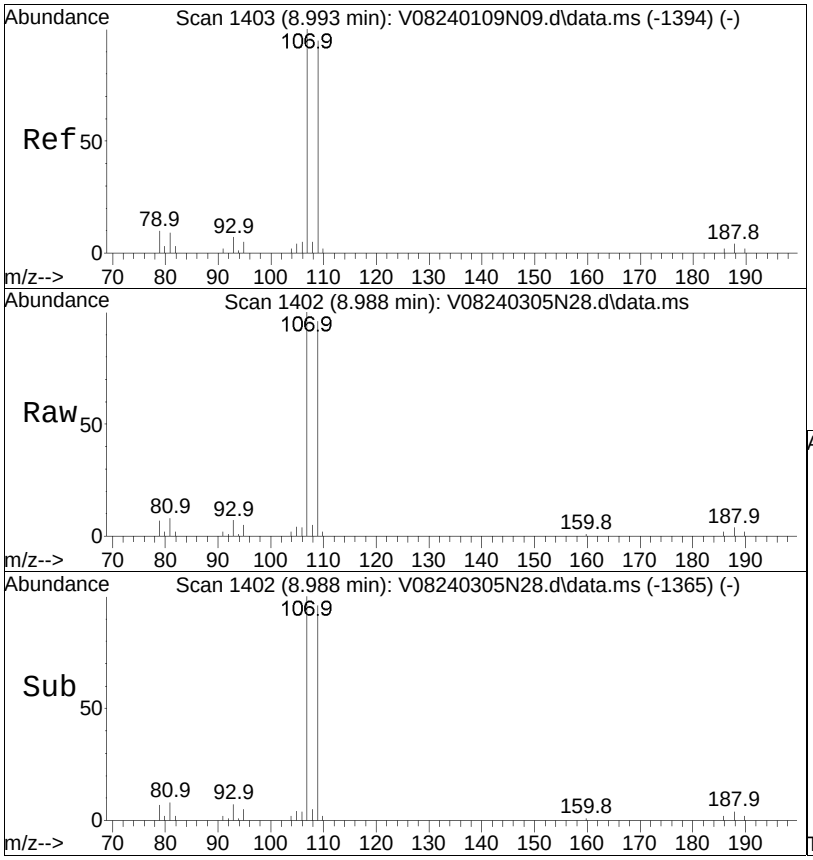


#70
1,3-Dichloropropane
Concen: 10.07 ug/L
RT: 8.820 min Scan# 1370
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 76 Resp: 61236

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.5	38.3

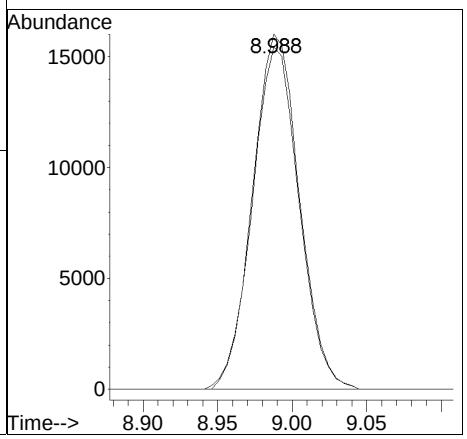


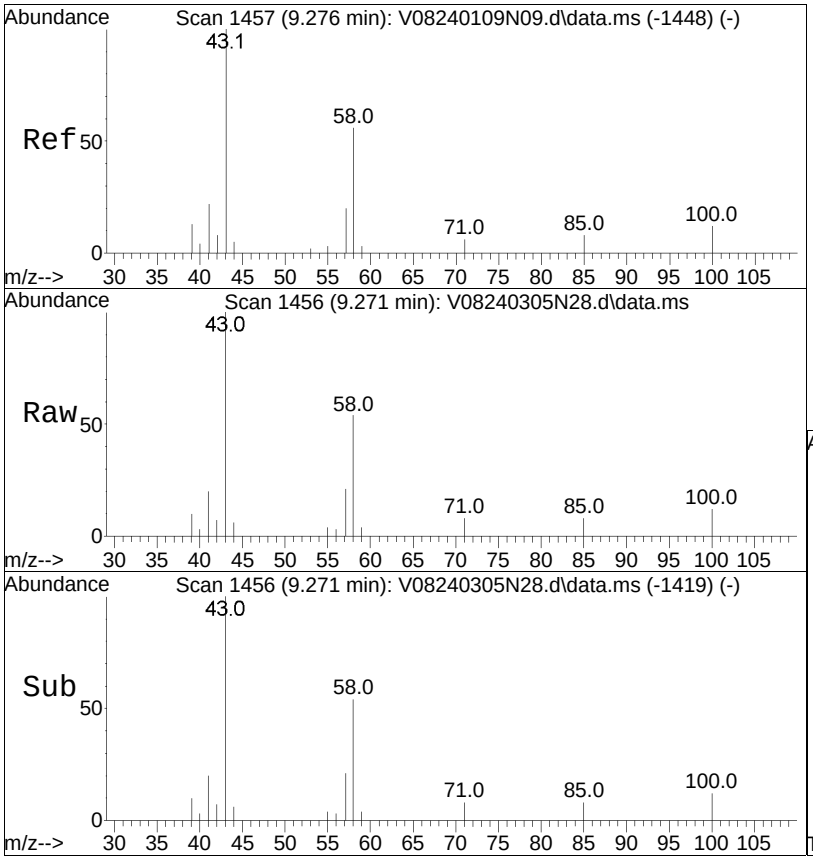


#71
1,2-Dibromoethane
Concen: 9.93 ug/L
RT: 8.988 min Scan# 1402
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:107 Resp: 35133

Ion	Ratio	Lower	Upper
107	100		
109	95.7	74.3	111.5

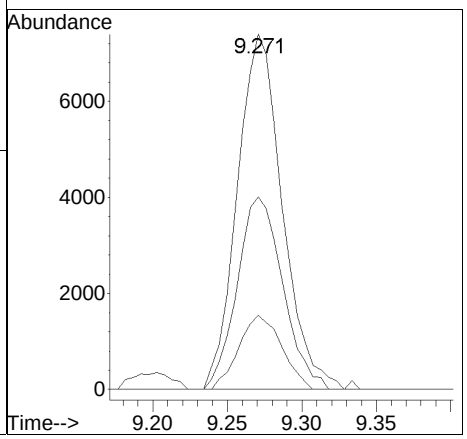


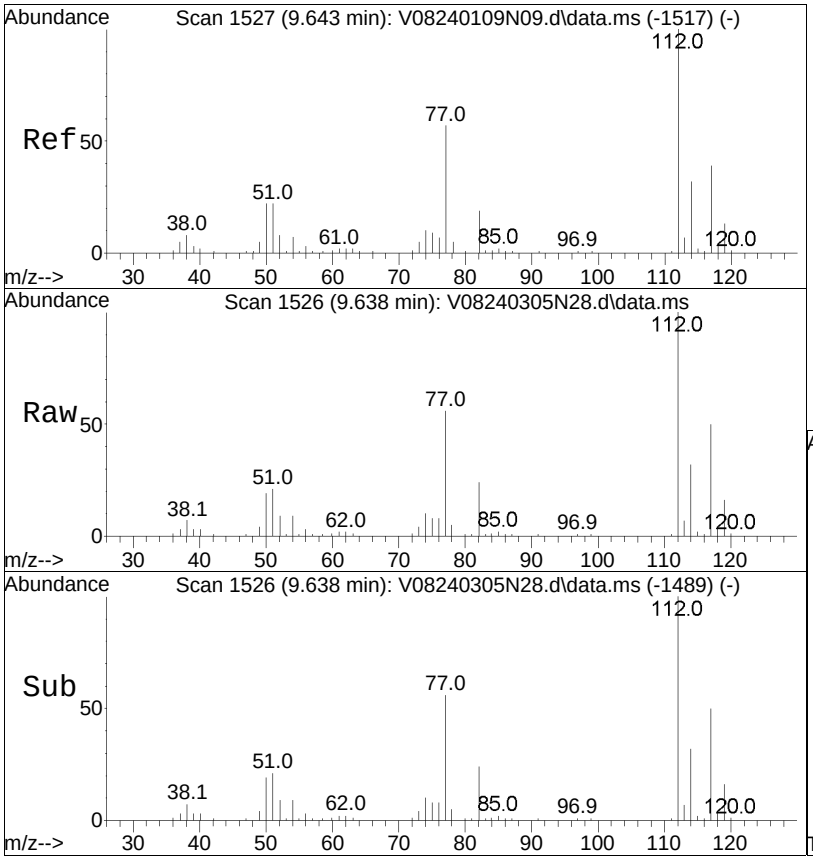


#72
2-Hexanone
Concen: 8.09 ug/L
RT: 9.271 min Scan# 1456
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 43 Resp: 15595

Ion	Ratio	Lower	Upper
43	100		
58	54.7	41.2	61.8
57	19.9	17.2	25.8

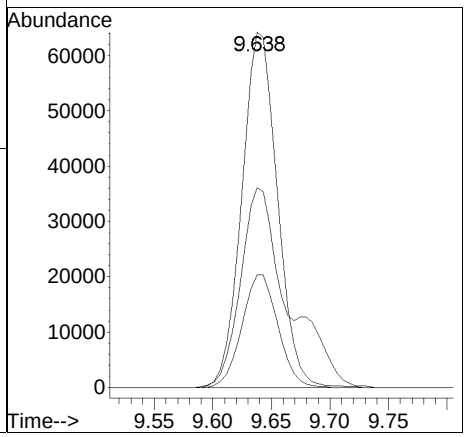


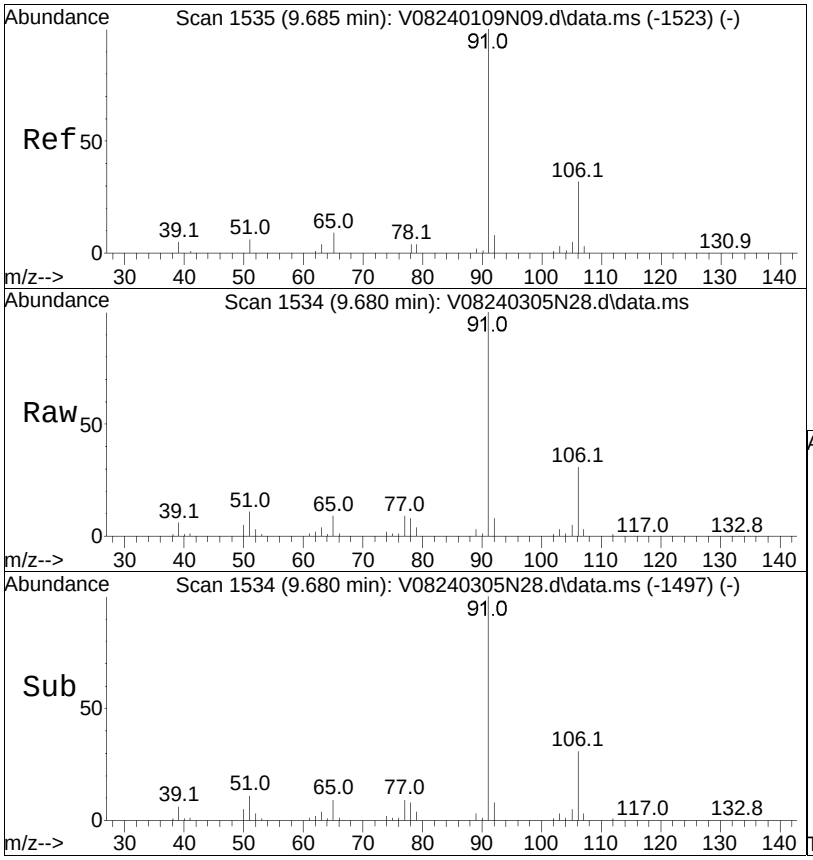


#73
Chlorobenzene
Concen: 9.97 ug/L
RT: 9.638 min Scan# 1526
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:112 Resp: 135535

Ion	Ratio	Lower	Upper
112	100		
77	60.1	55.4	83.0
114	32.1	25.4	38.2

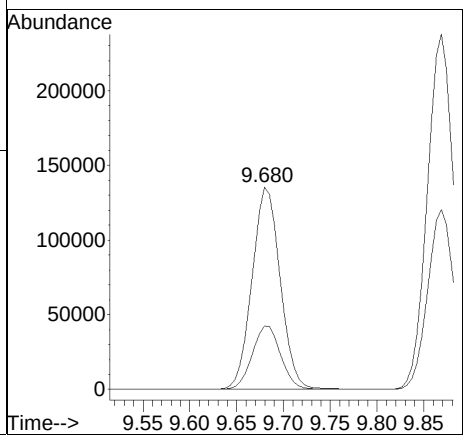


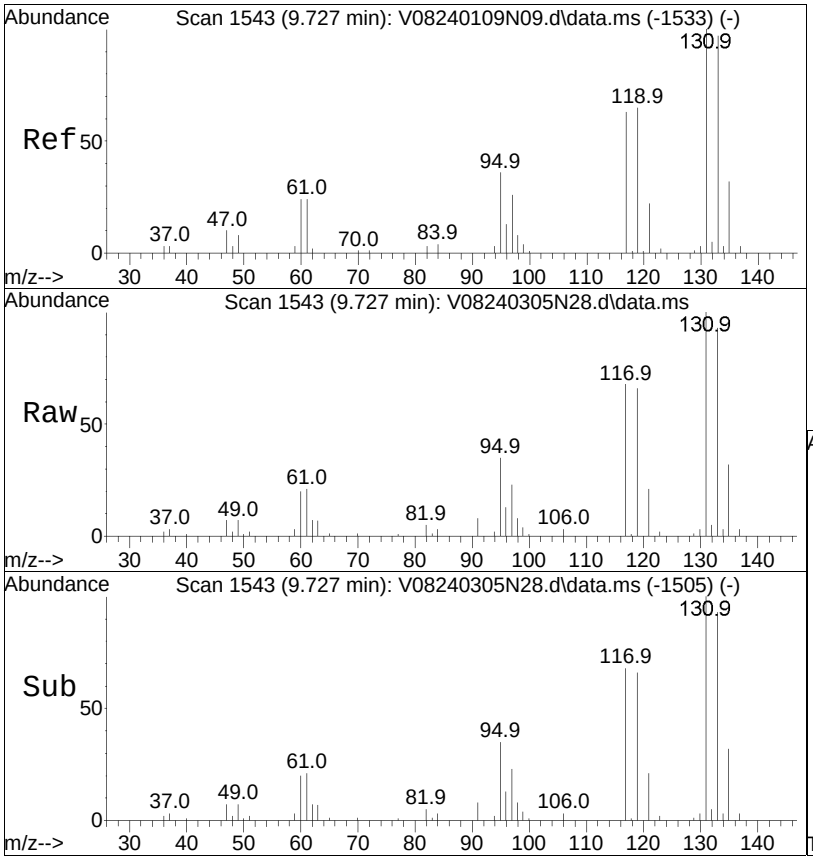


#74
Ethylbenzene
Concen: 12.61 ug/L
RT: 9.680 min Scan# 1534
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 91 Resp: 283742

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.3	36.5

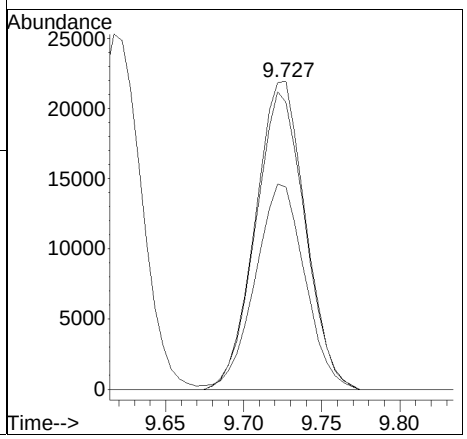


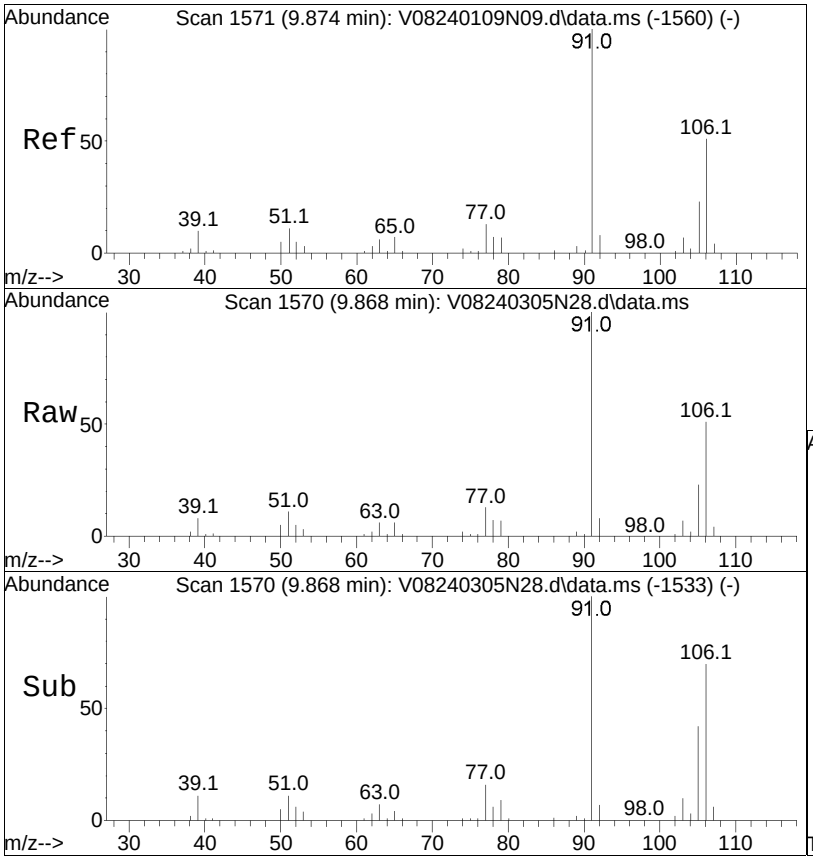


#75
1,1,1,2-Tetrachloroethane
Concen: 9.87 ug/L
RT: 9.727 min Scan# 1543
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:131 Resp: 49257

Ion	Ratio	Lower	Upper
131	100		
133	95.2	81.0	121.0
119	66.1	41.3	81.3

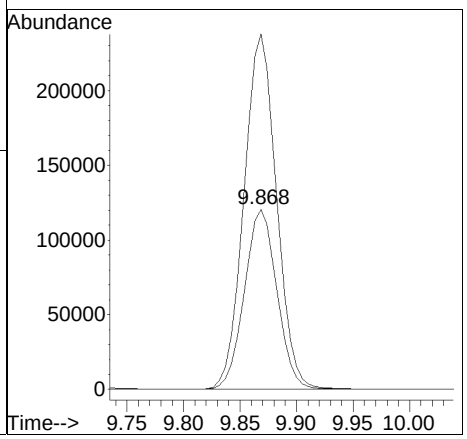


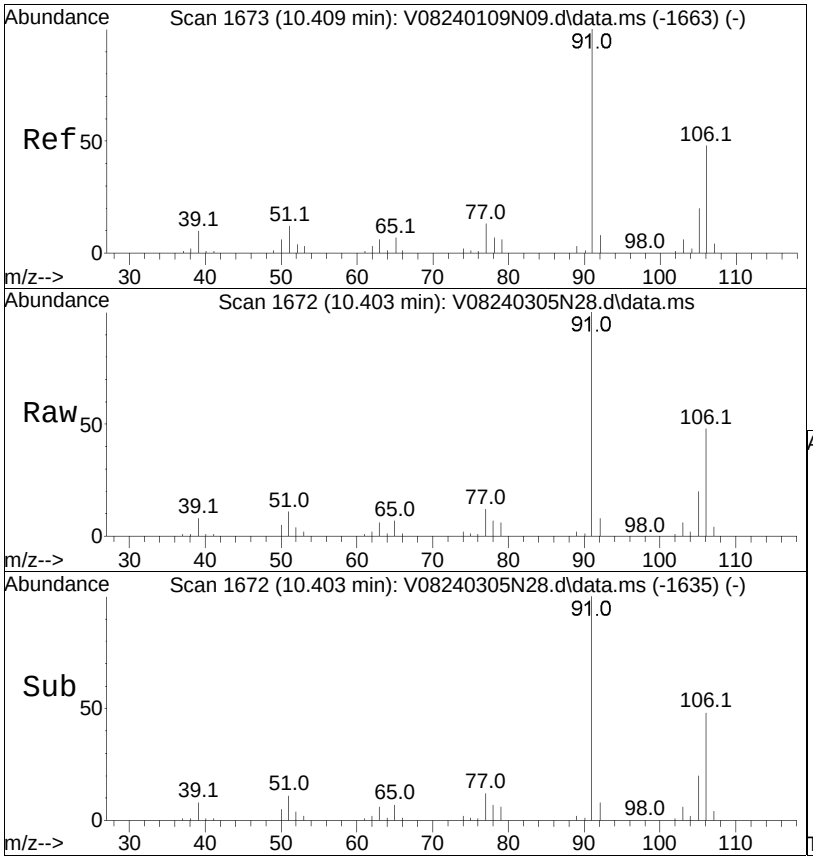


#76
p/m Xylene
Concen: 27.01 ug/L
RT: 9.868 min Scan# 1570
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:106 Resp: 241305

Ion	Ratio	Lower	Upper
106	100		
91	197.5	166.4	249.6

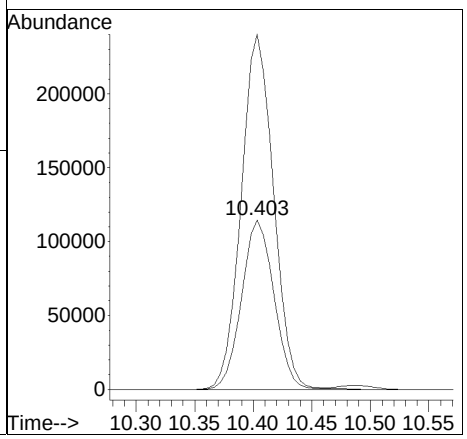


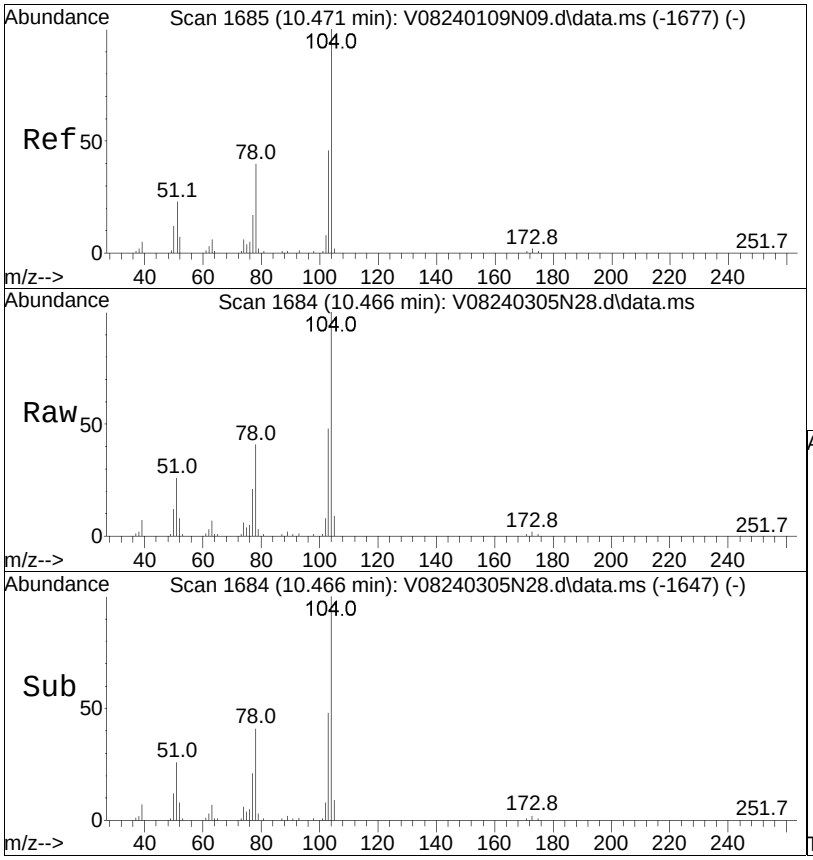


#77
o Xylene
Concen: 25.02 ug/L
RT: 10.403 min Scan# 1672
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:106 Resp: 221296

Ion	Ratio	Lower	Upper
106	100		
91	208.2	182.6	273.8

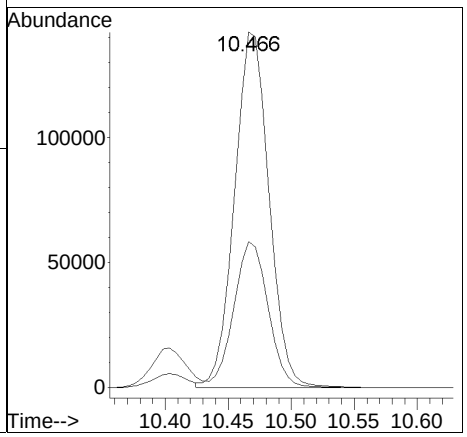


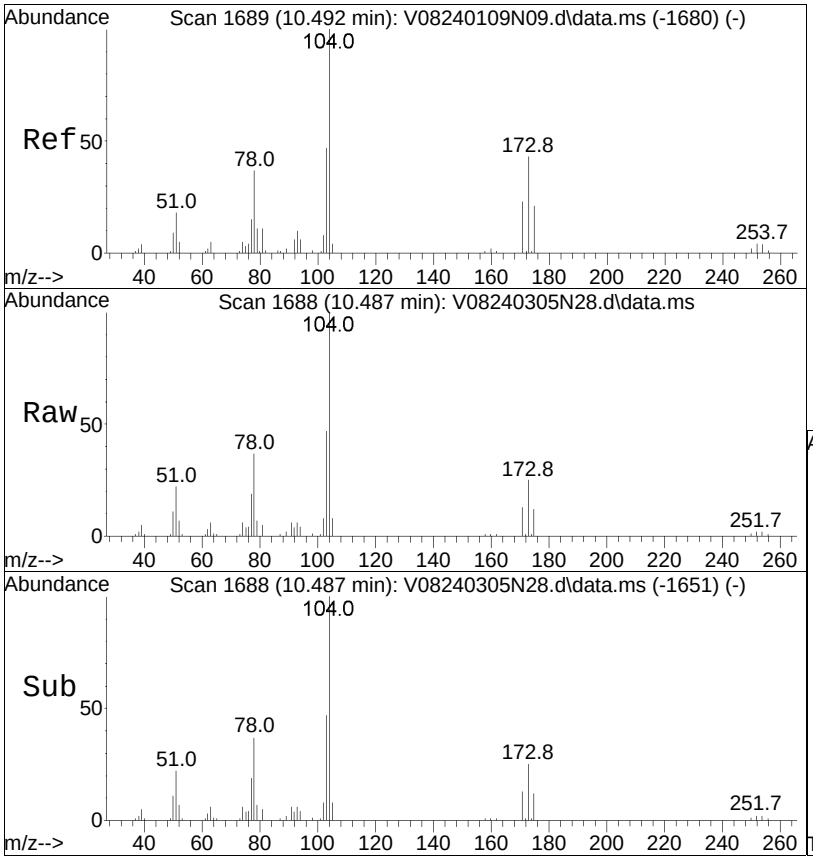


#78
Styrene
Concen: 18.46 ug/L
RT: 10.466 min Scan# 1684
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:104 Resp: 270174

Ion	Ratio	Lower	Upper
104	100		
78	40.6	39.8	59.6

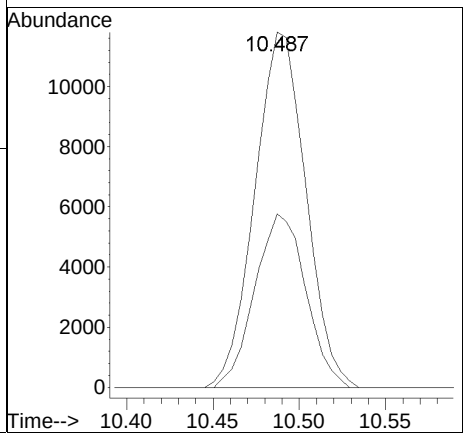


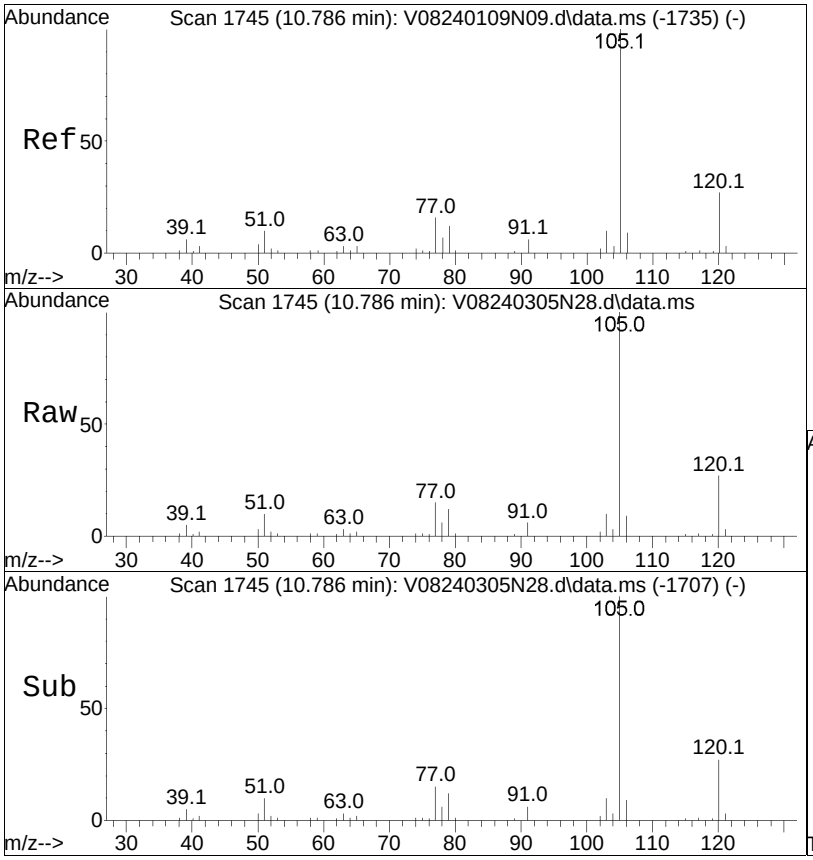


#80
Bromoform
Concen: 9.45 ug/L
RT: 10.487 min Scan# 1688
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:173 Resp: 24239

Ion	Ratio	Lower	Upper
173	100		
175	48.7	31.5	71.5

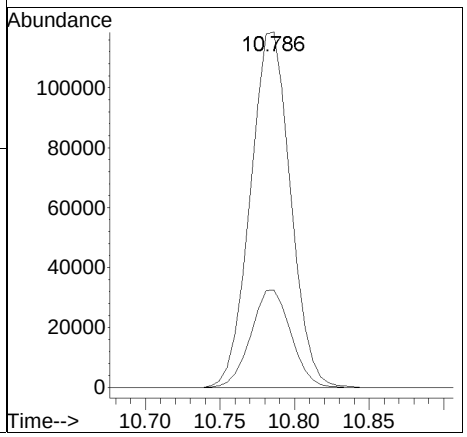


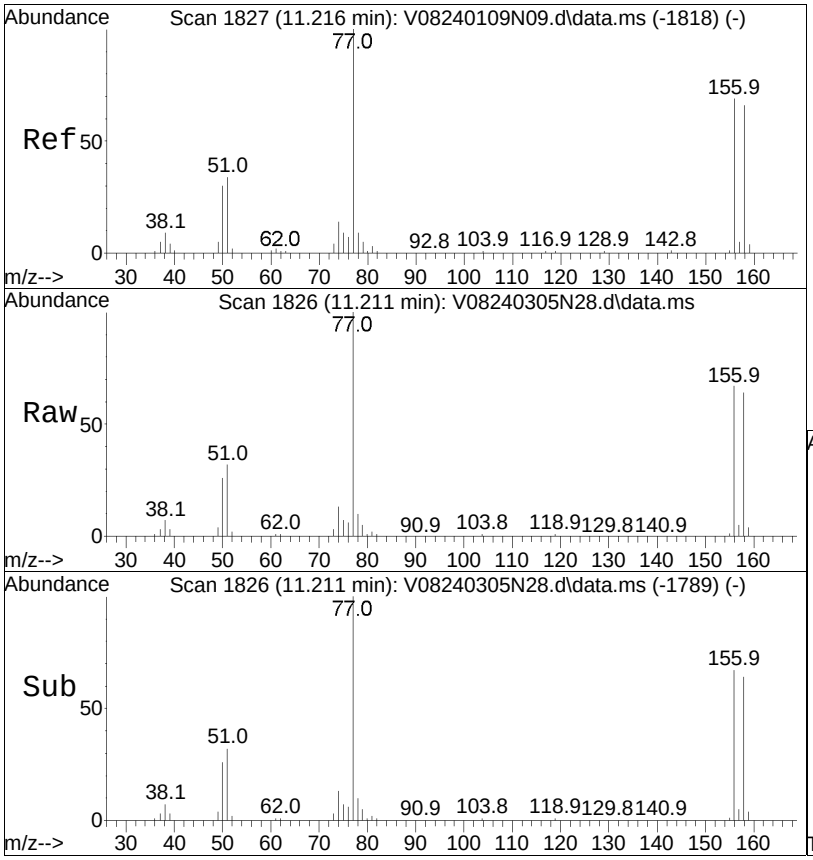


#82
Isopropylbenzene
Concen: 10.35 ug/L
RT: 10.786 min Scan# 1745
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:105 Resp: 222092

Ion	Ratio	Lower	Upper
105	100		
120	27.3	4.8	44.8

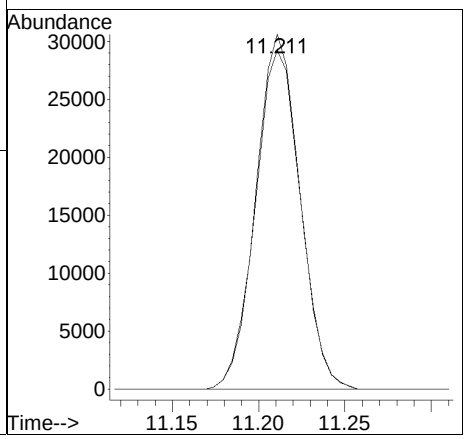


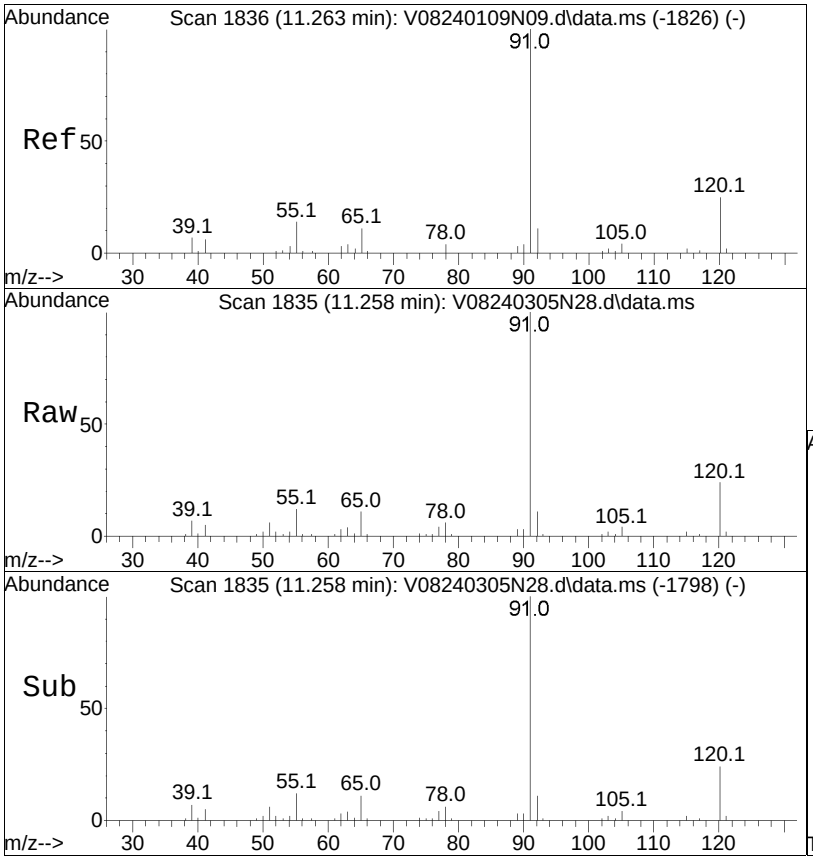


#84
Bromobenzene
Concen: 10.05 ug/L
RT: 11.211 min Scan# 1826
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:156 Resp: 54570

Ion	Ratio	Lower	Upper
156	100		
158	97.4	75.9	113.9

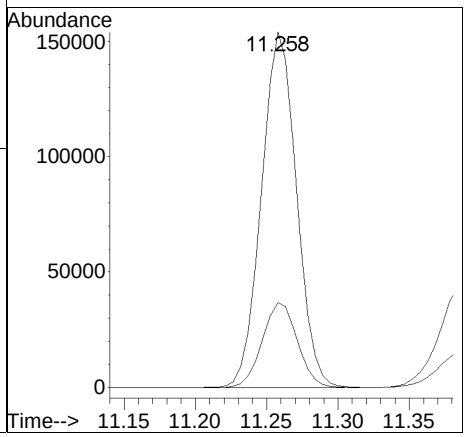


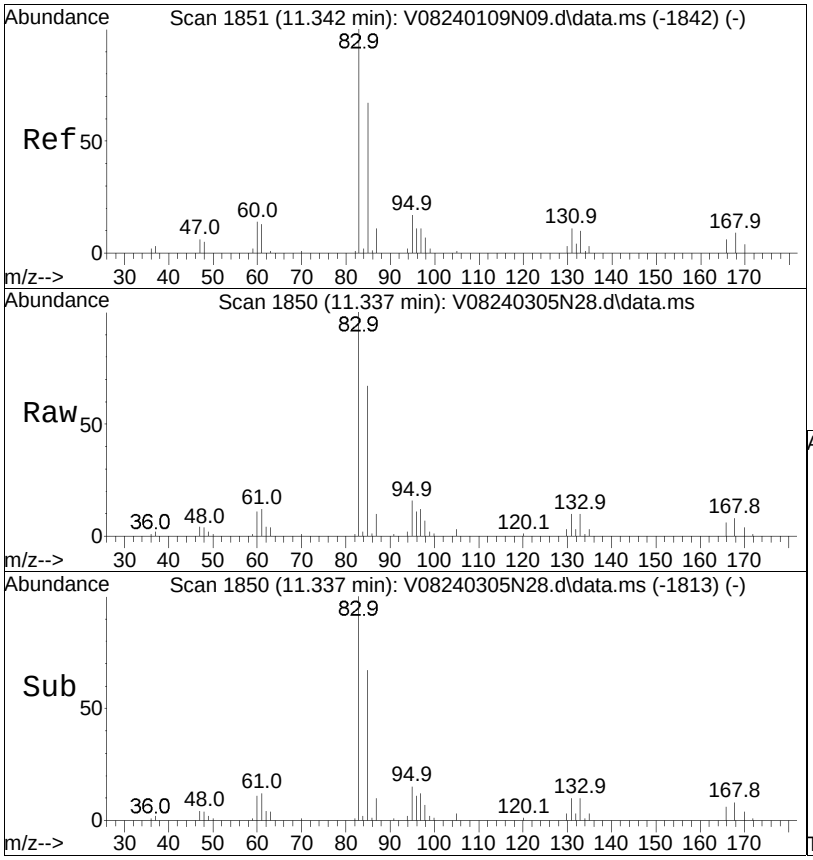


#85
n-Propylbenzene
Concen: 10.45 ug/L
RT: 11.258 min Scan# 1835
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 91 Resp: 263015

Ion	Ratio	Lower	Upper
91	100		
120	23.8	17.0	25.6

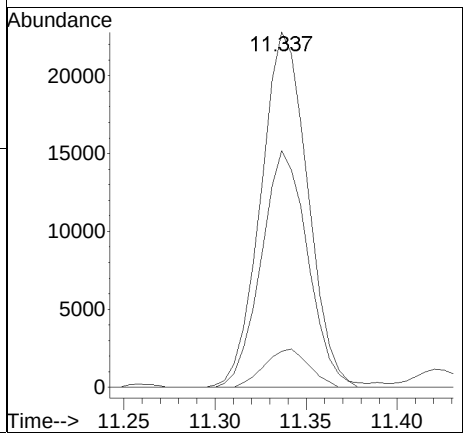


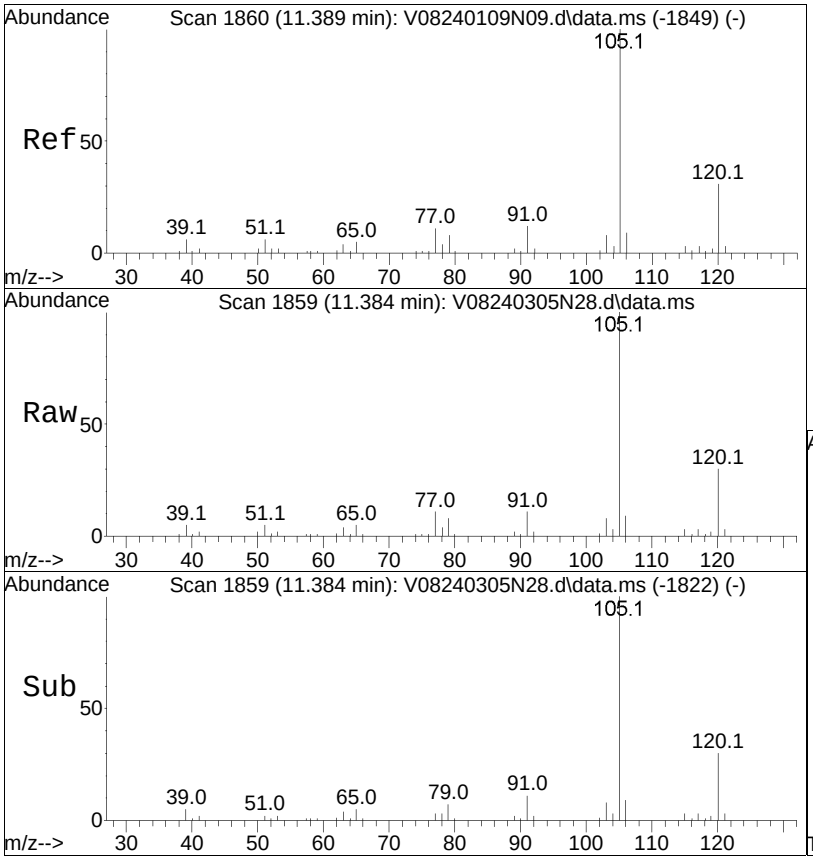


#87
1,1,2,2-Tetrachloroethane
Concen: 10.54 ug/L
RT: 11.337 min Scan# 1850
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 83 Resp: 40740

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	30.4
85	66.7	45.4	85.4

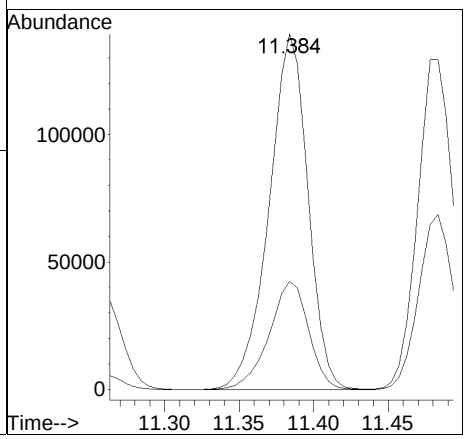


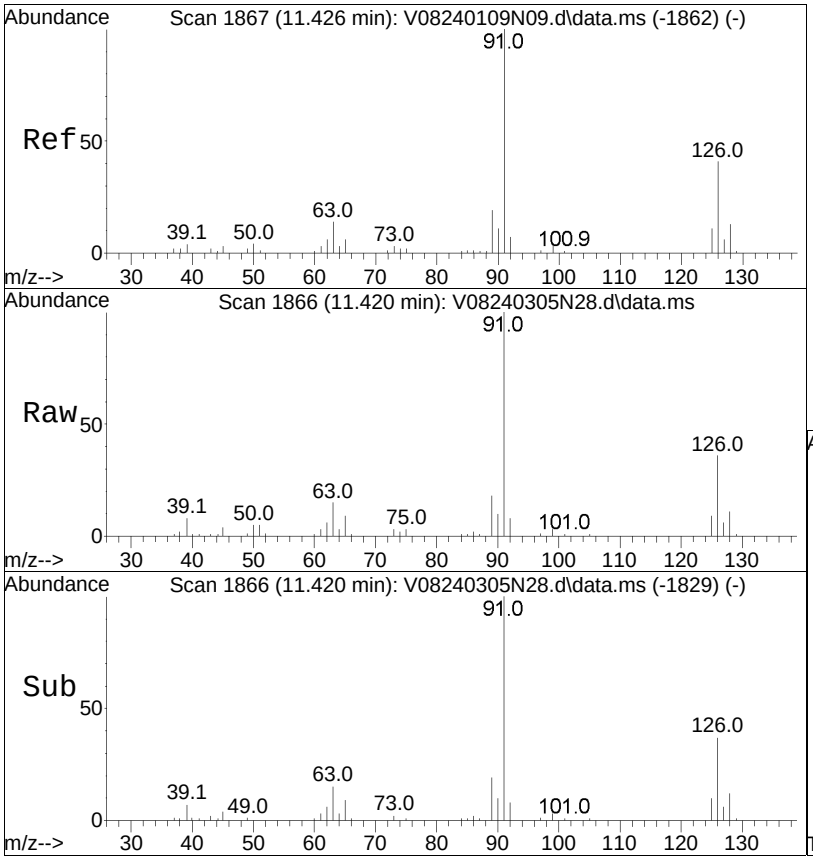


#88
4-Ethyltoluene
Concen: 11.71 ug/L
RT: 11.384 min Scan# 1859
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:105 Resp: 252688

Ion	Ratio	Lower	Upper
105	100		
120	30.8	18.1	37.7

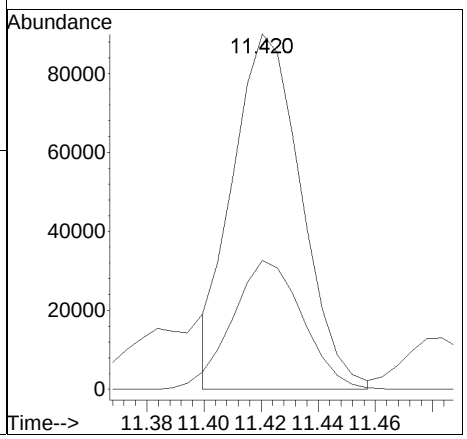


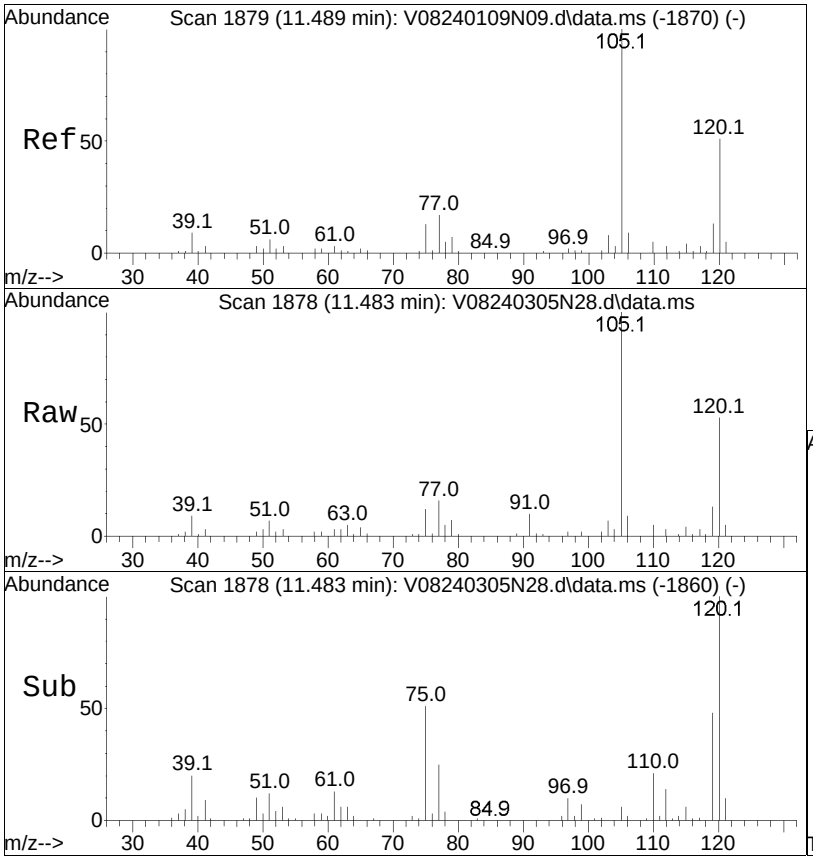


#89
2-Chlorotoluene
Concen: 9.86 ug/L M6
RT: 11.420 min Scan# 1866
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 91 Resp: 150369

Ion	Ratio	Lower	Upper
91	100		
126	37.3	21.5	32.3#

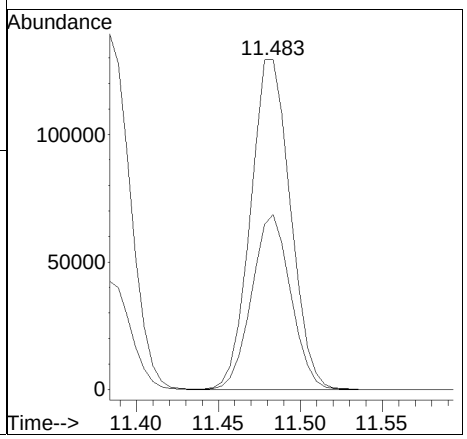


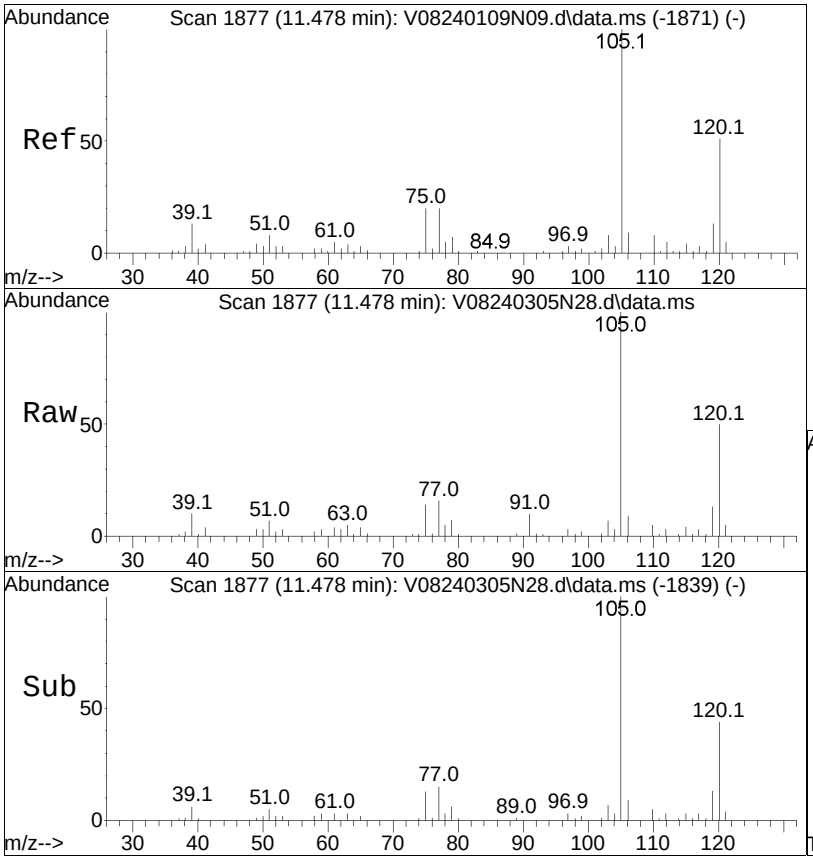


#90
1,3,5-Trimethylbenzene
Concen: 11.77 ug/L
RT: 11.483 min Scan# 1878
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:105 Resp: 218676

Ion	Ratio	Lower	Upper
105	100		
120	51.8	34.8	52.2

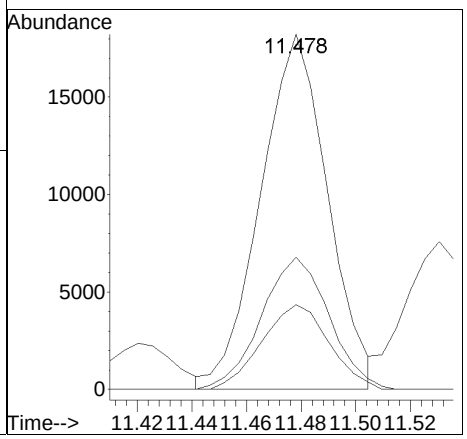


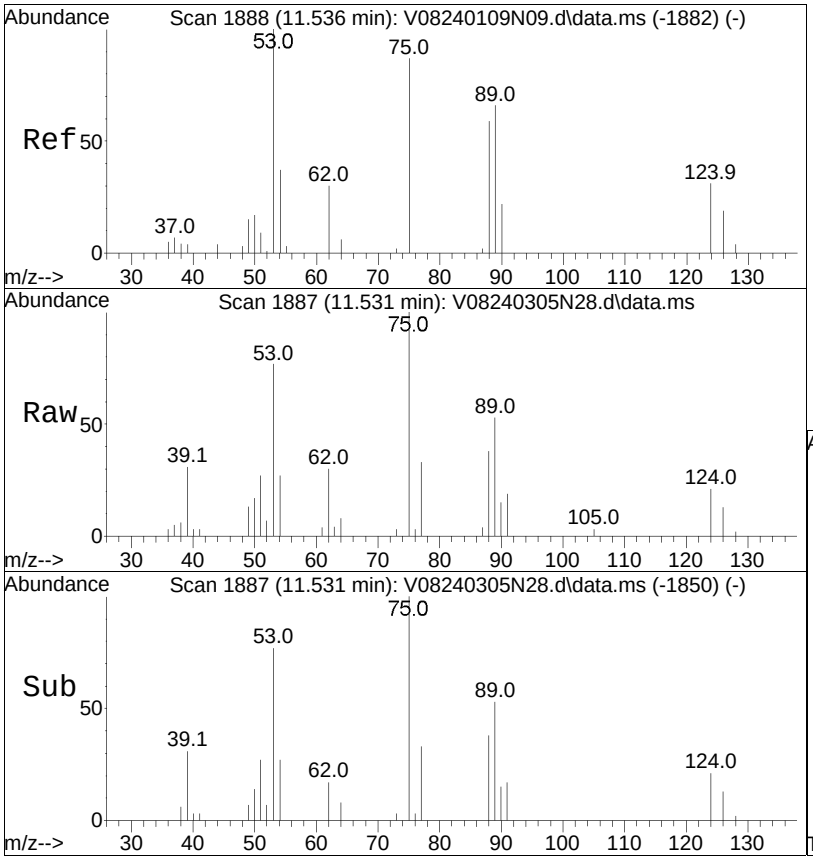


#91
1,2,3-Trichloropropane
Concen: 9.86 ug/L
RT: 11.478 min Scan# 1877
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 75 Resp: 31042

Ion	Ratio	Lower	Upper
75	100		
110	37.5	25.4	52.8
112	24.0	15.6	32.4

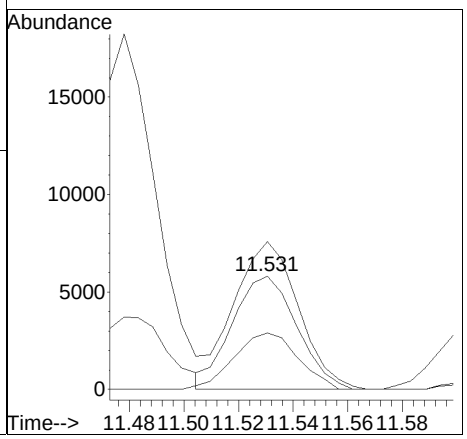


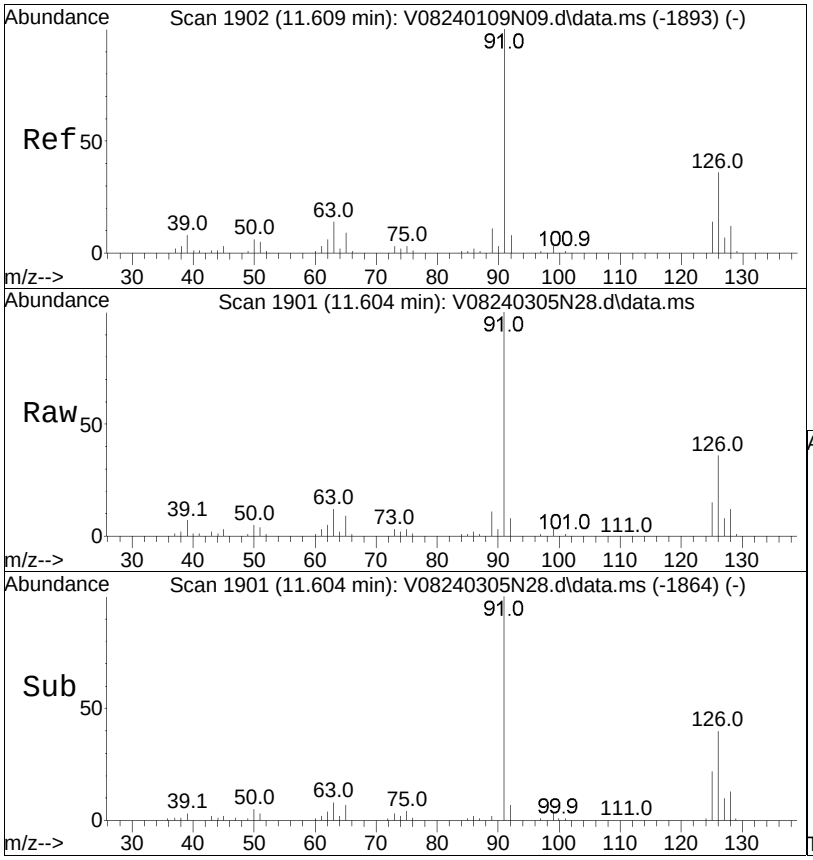


#92
trans-1,4-Dichloro-2-butene
Concen: 8.70 ug/L
RT: 11.531 min Scan# 1887
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 53 Resp: 9545

Ion	Ratio	Lower	Upper
53	100		
88	49.5	39.6	59.4
75	131.5	70.2	105.4#

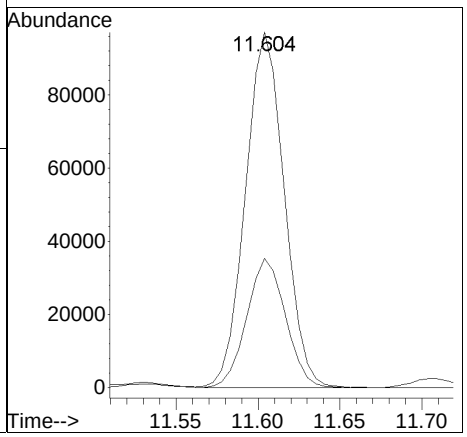


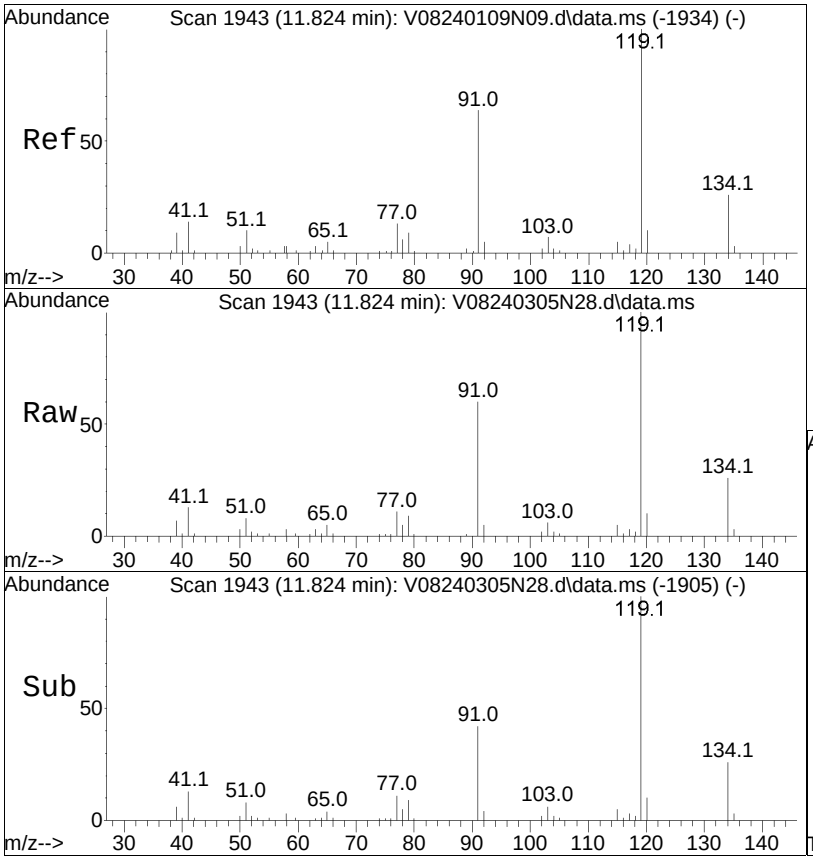


#93
4-Chlorotoluene
Concen: 10.09 ug/L
RT: 11.604 min Scan# 1901
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 91 Resp: 159442

Ion	Ratio	Lower	Upper
91	100		
126	36.1	24.6	36.8

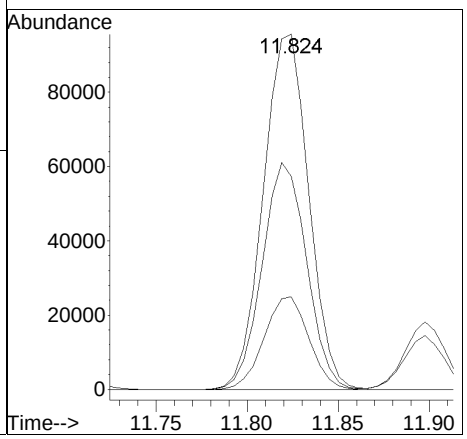


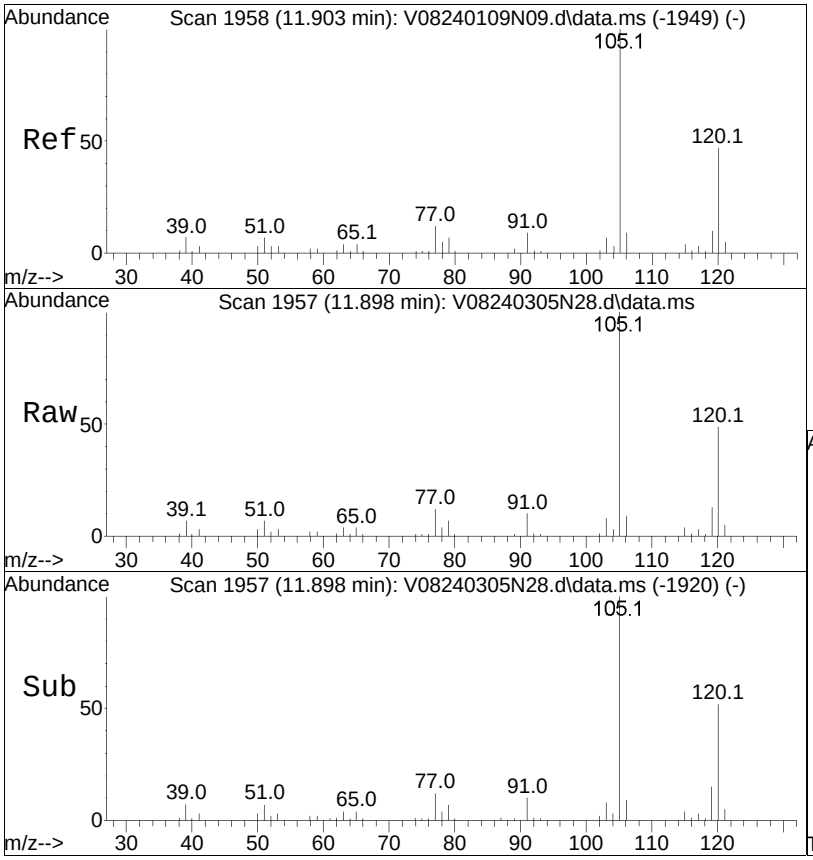


#94
tert-Butylbenzene
Concen: 10.32 ug/L
RT: 11.824 min Scan# 1943
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:119 Resp: 165822

Ion	Ratio	Lower	Upper
119	100		
91	62.5	51.4	77.2
134	25.7	18.3	27.5

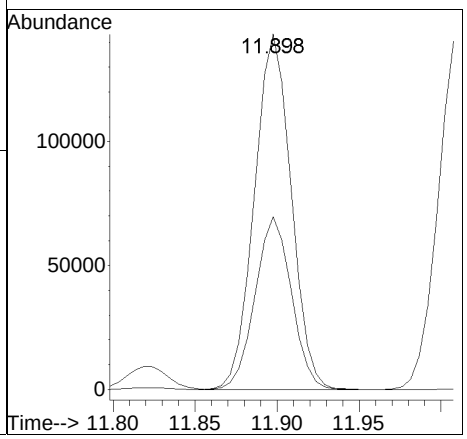


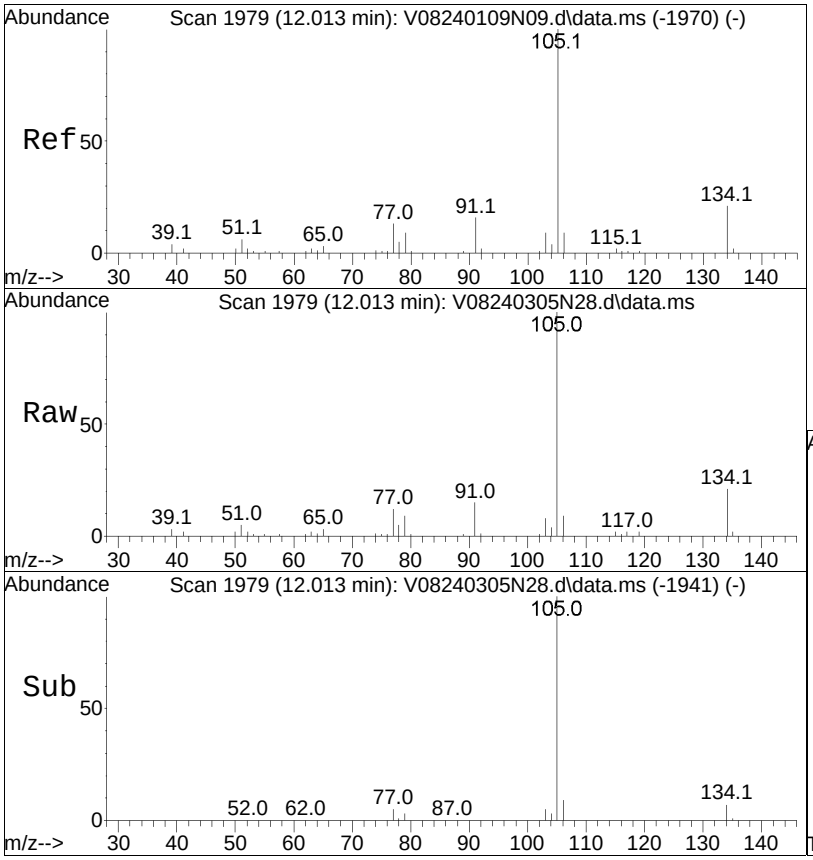


#97
1,2,4-Trimethylbenzene
Concen: 12.20 ug/L
RT: 11.898 min Scan# 1957
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:105 Resp: 223106

Ion	Ratio	Lower	Upper
105	100		
120	48.0	33.4	50.0

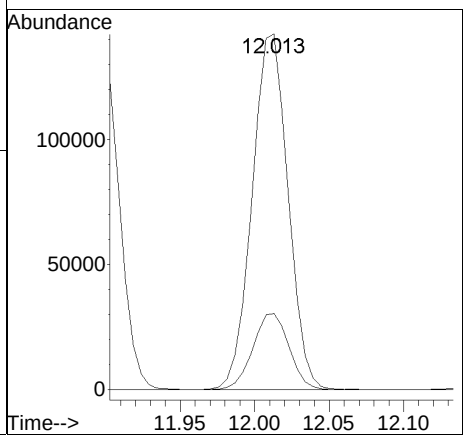


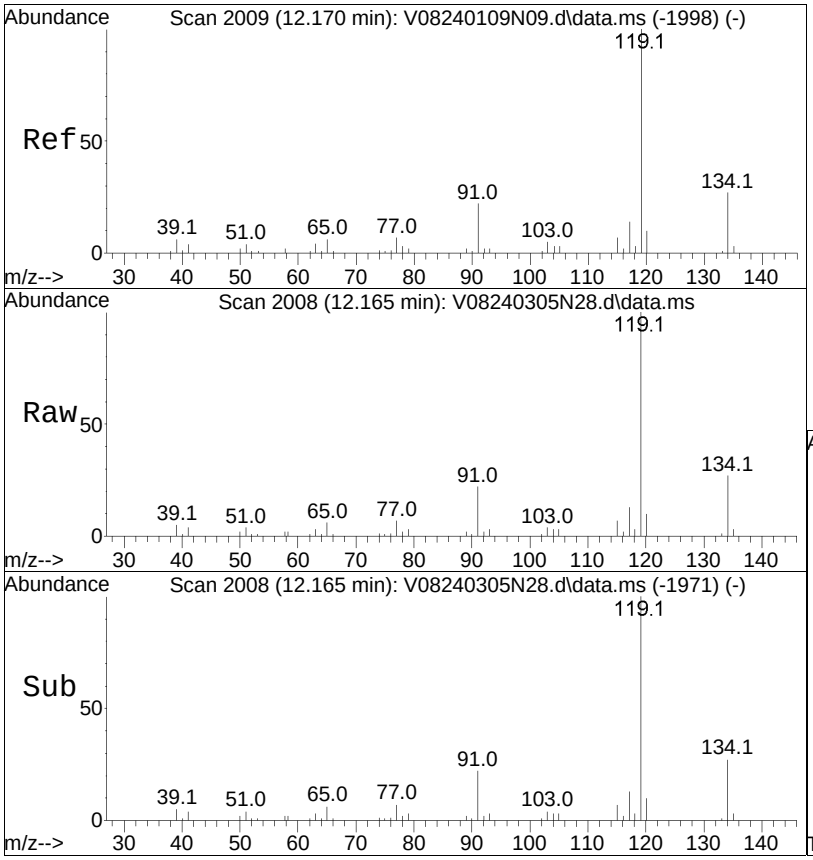


#98
sec-Butylbenzene
Concen: 10.19 ug/L
RT: 12.013 min Scan# 1979
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:105 Resp: 238128

Ion	Ratio	Lower	Upper
105	100		
134	21.4	12.5	26.1

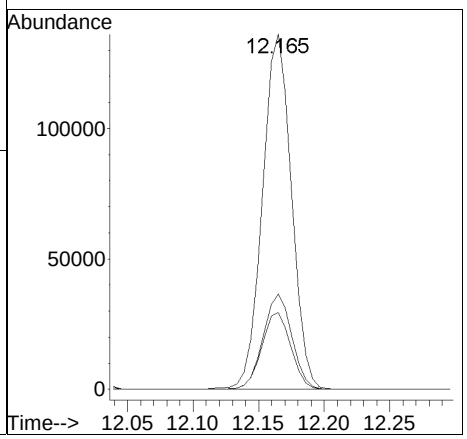


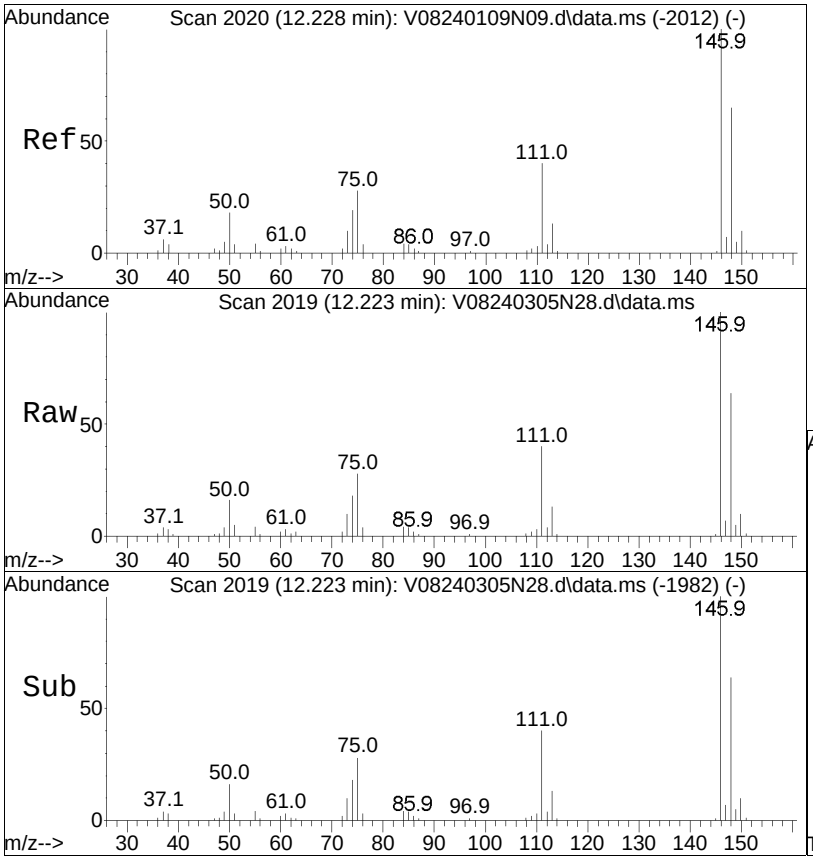


#99
p-Isopropyltoluene
Concen: 10.13 ug/L
RT: 12.165 min Scan# 2008
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:119 Resp: 209793

Ion	Ratio	Lower	Upper
119	100		
134	26.6	16.1	33.3
91	21.8	17.3	35.9

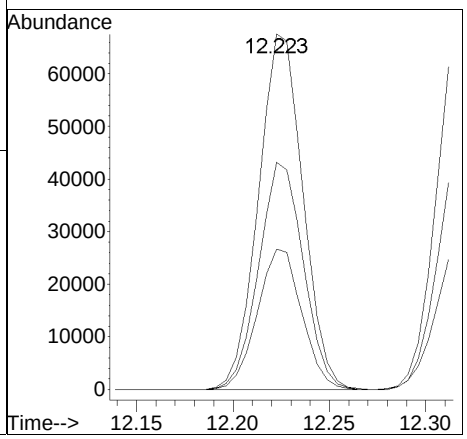


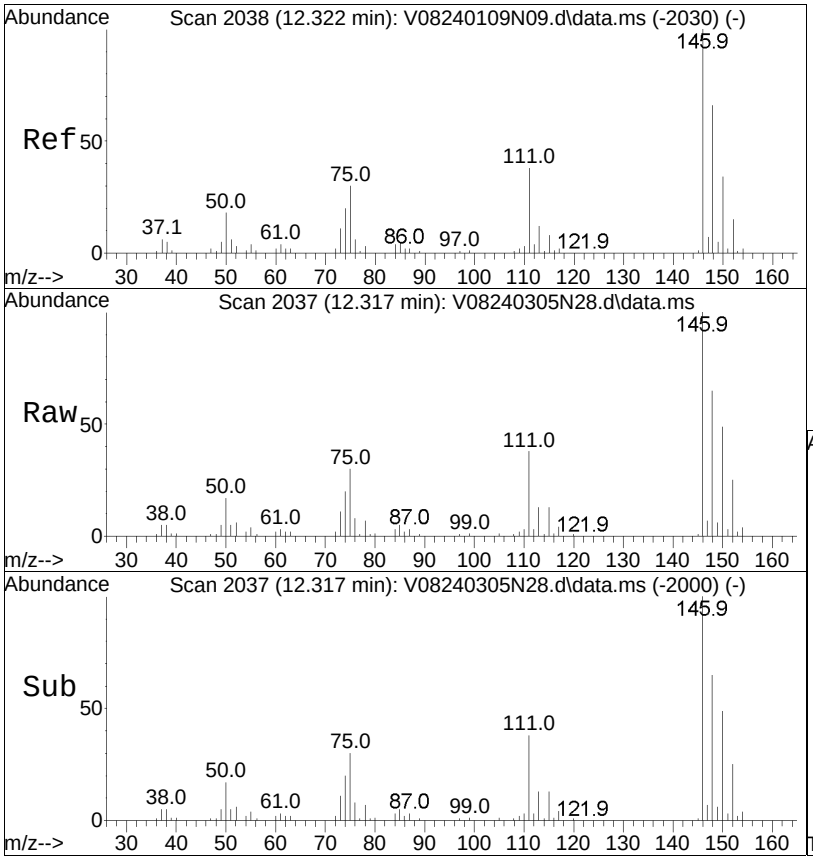


#100
1,3-Dichlorobenzene
Concen: 10.00 ug/L
RT: 12.223 min Scan# 2019
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:146 Resp: 108384

Ion	Ratio	Lower	Upper
146	100		
111	39.4	27.5	57.1
148	63.9	41.9	86.9

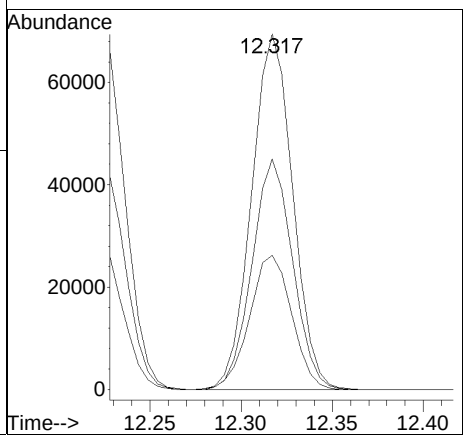


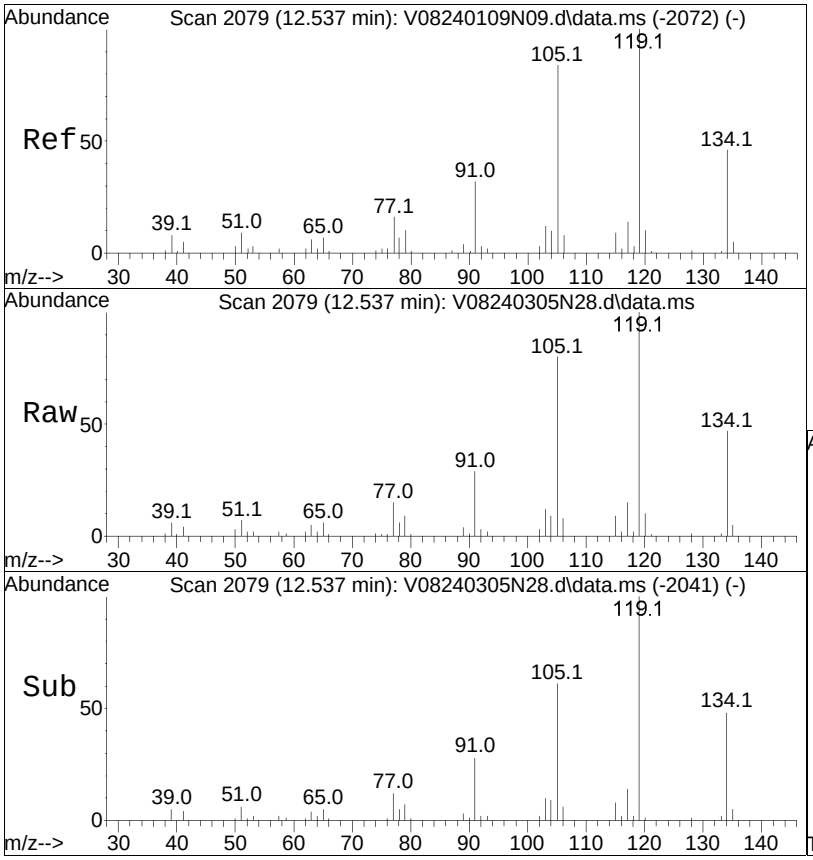


#101
1,4-Dichlorobenzene
Concen: 9.96 ug/L
RT: 12.317 min Scan# 2037
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:146 Resp: 109013

Ion	Ratio	Lower	Upper
146	100		
111	38.7	32.3	48.5
148	64.2	49.9	74.9

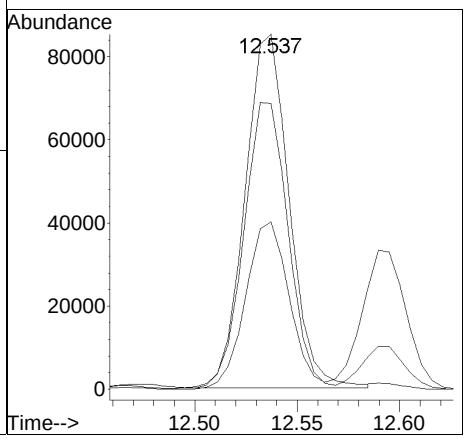


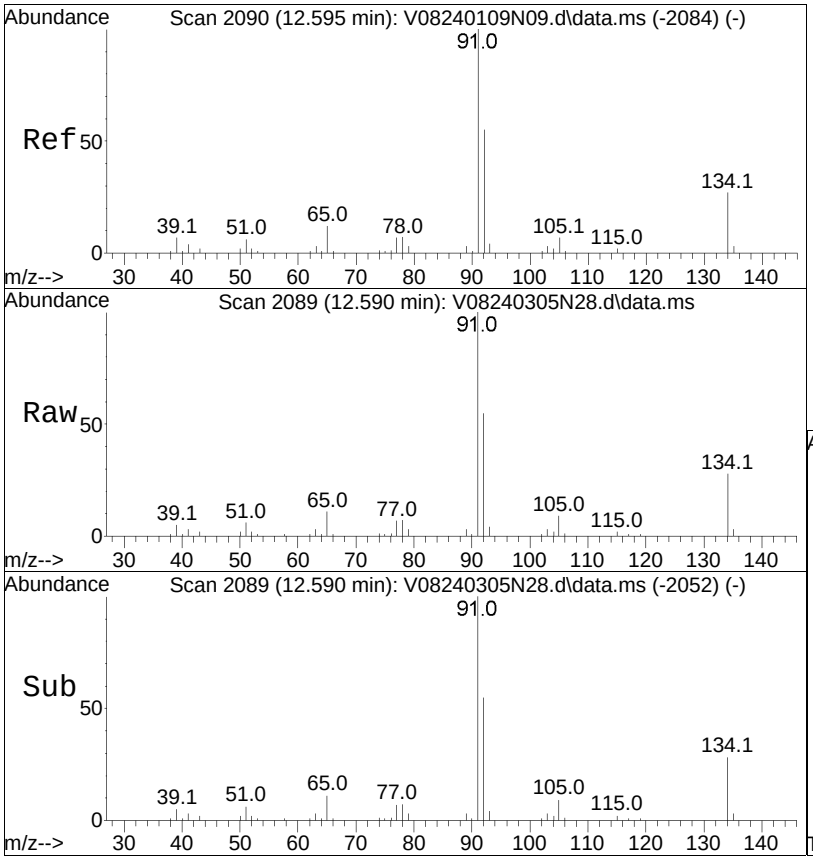


#102
p-Diethylbenzene
Concen: 10.12 ug/L
RT: 12.537 min Scan# 2079
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:119 Resp: 127861

Ion	Ratio	Lower	Upper
119	100		
105	81.3	59.5	123.7
134	47.0	30.2	62.6

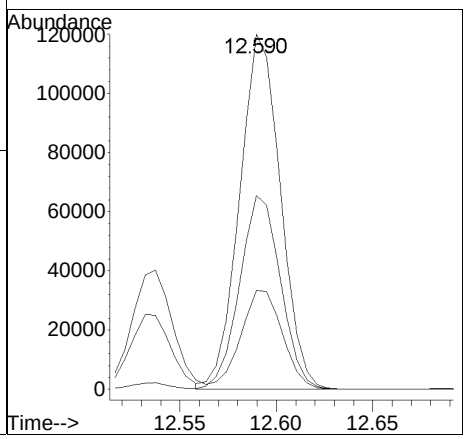


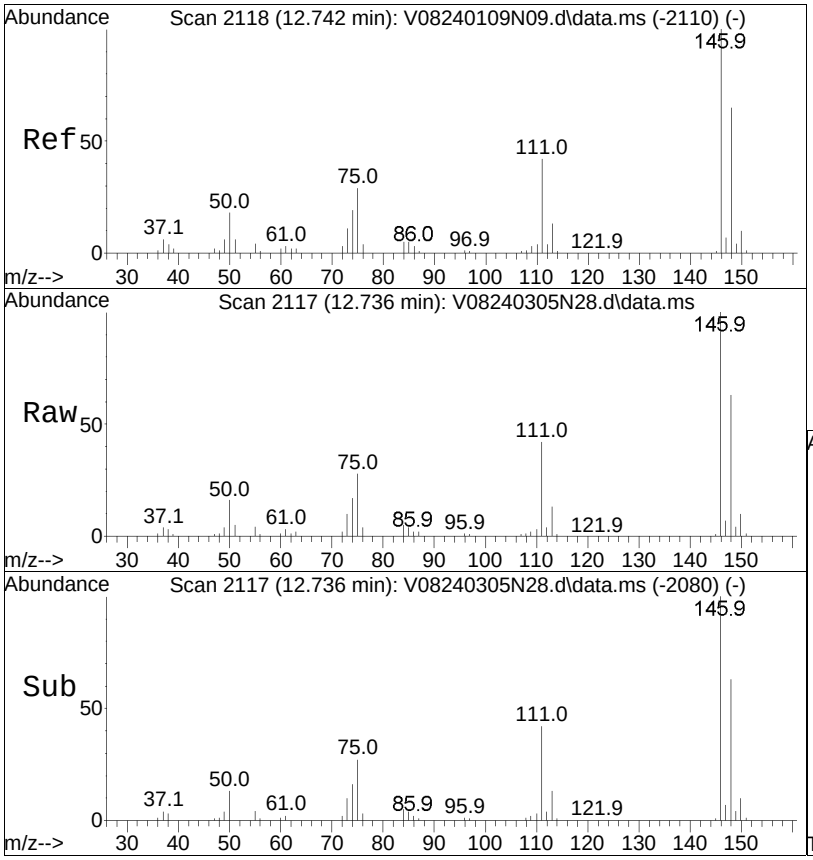


#103
n-Butylbenzene
Concen: 10.25 ug/L
RT: 12.590 min Scan# 2089
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion: 91 Resp: 177044

Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.0	64.4
134	28.5	19.6	29.4

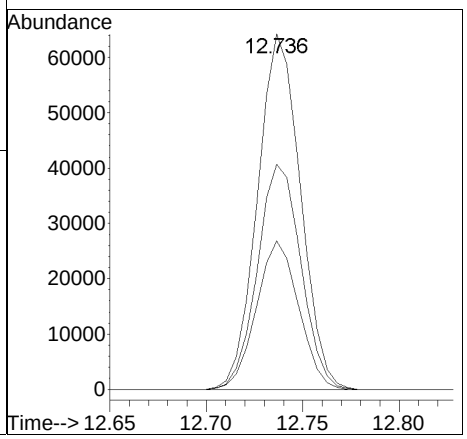


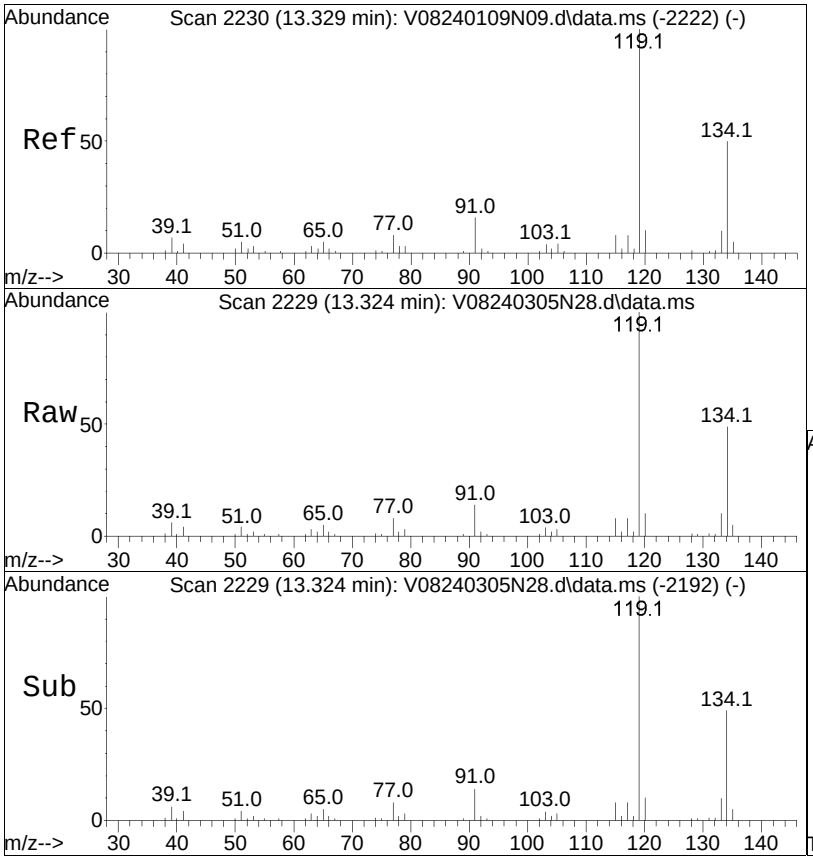


#104
1,2-Dichlorobenzene
Concen: 9.87 ug/L
RT: 12.736 min Scan# 2117
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:146 Resp: 99373

Ion	Ratio	Lower	Upper
146	100		
111	41.2	28.3	58.7
148	64.2	42.3	87.8

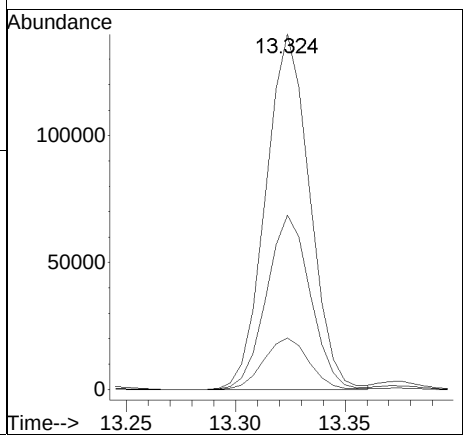


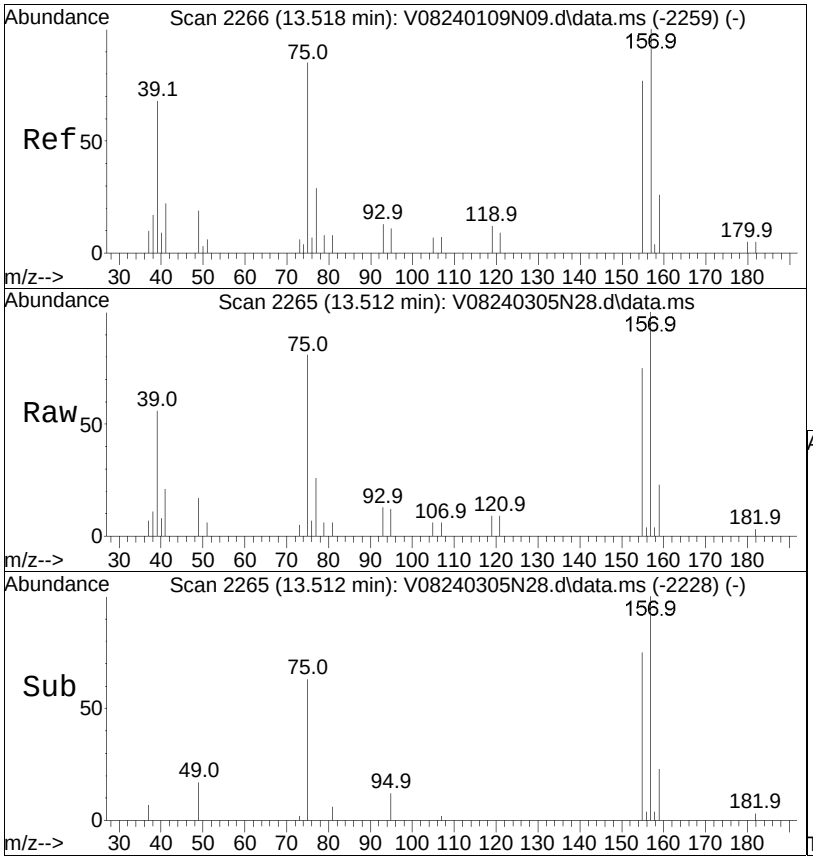


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.58 ug/L
RT: 13.324 min Scan# 2229
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:119 Resp: 195892

Ion	Ratio	Lower	Upper
119	100		
134	48.9	30.5	63.3
91	14.8	12.4	25.7

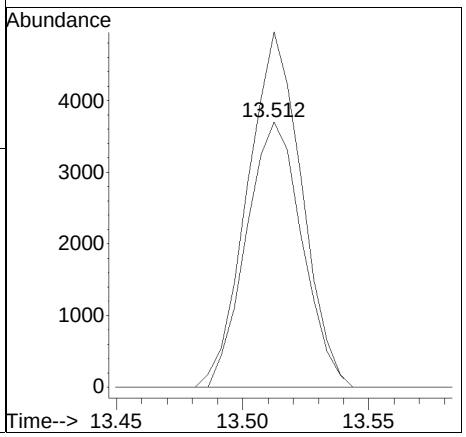


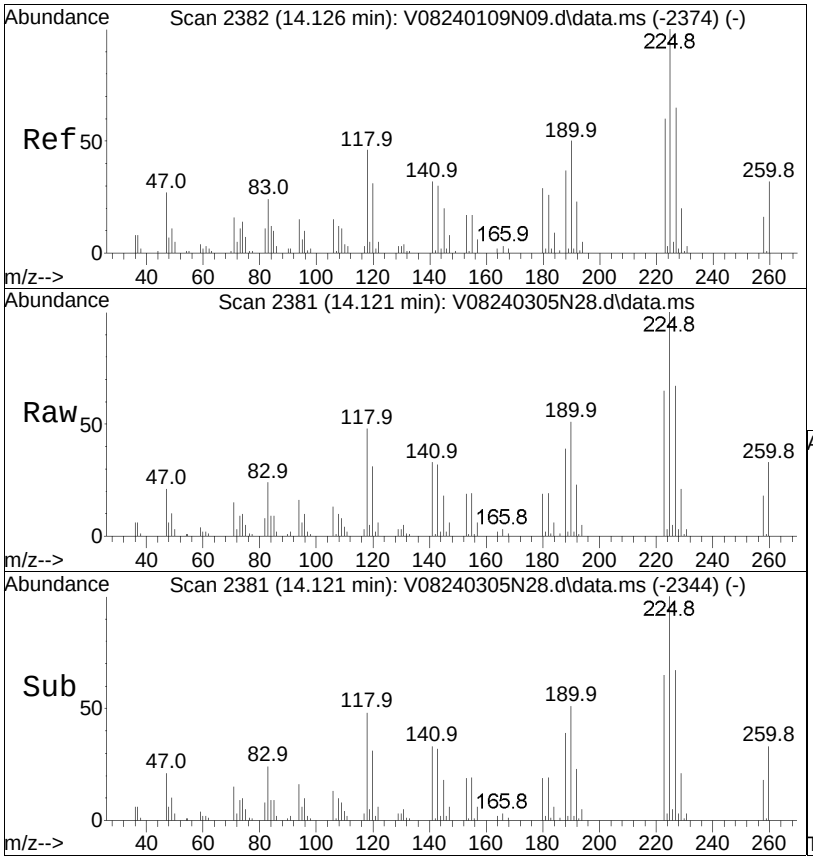


#106
1,2-Dibromo-3-chloropropane
Concen: 9.59 ug/L
RT: 13.512 min Scan# 2265
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:155 Resp: 5700

Ion	Ratio	Lower	Upper
155	100		
157	130.0	94.8	142.2

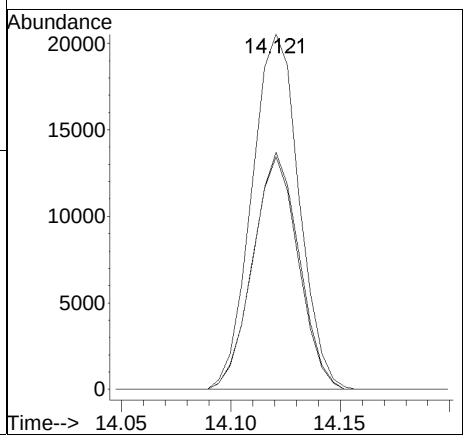


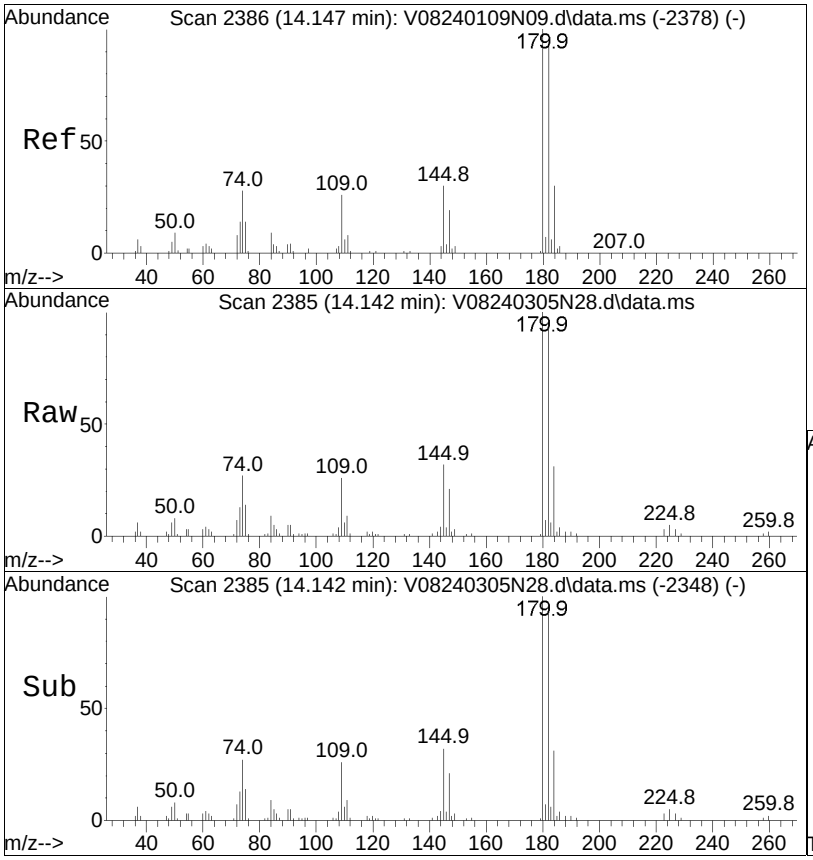


#108
Hexachlorobutadiene
Concen: 9.60 ug/L
RT: 14.121 min Scan# 2381
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:225 Resp: 30936

Ion	Ratio	Lower	Upper
225	100		
223	63.2	54.3	81.5
227	64.9	52.4	78.6

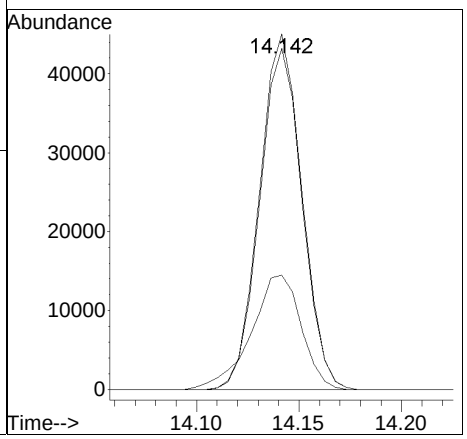


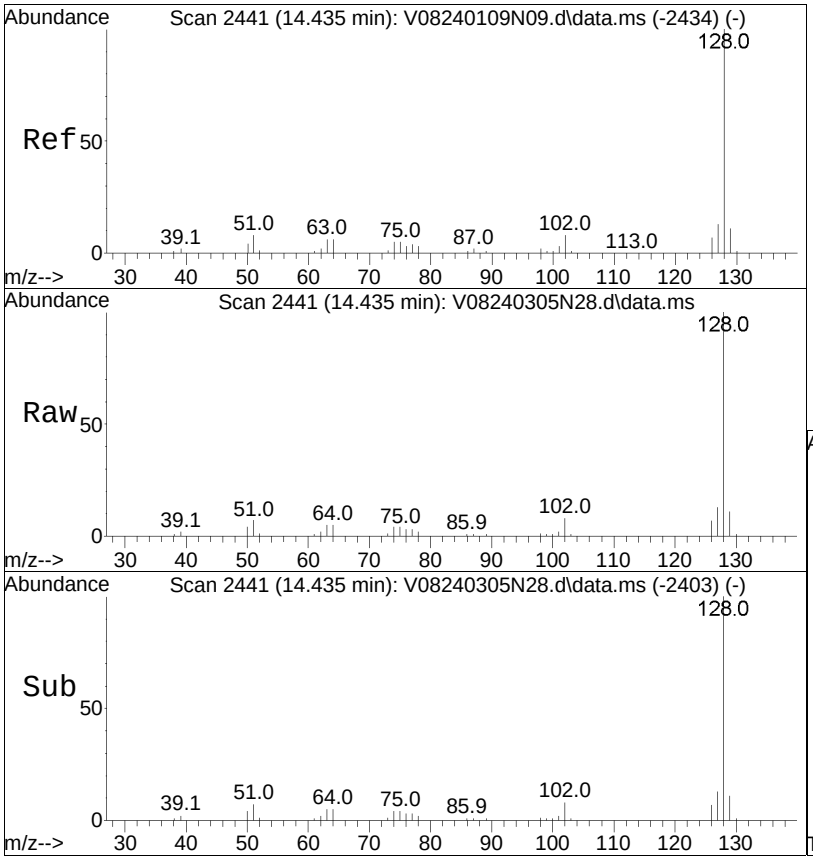


#109
1,2,4-Trichlorobenzene
Concen: 9.31 ug/L
RT: 14.142 min Scan# 2385
Delta R.T. -0.005 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:180 Resp: 64805

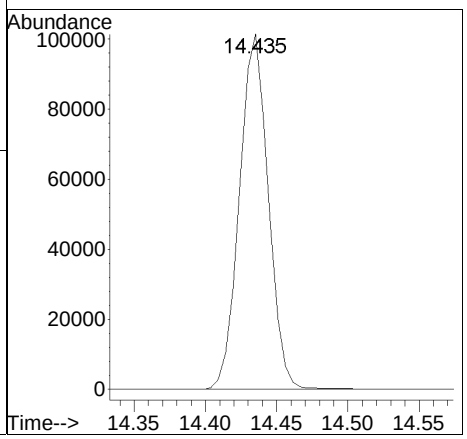
Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.3	115.9
145	37.8	28.1	42.1

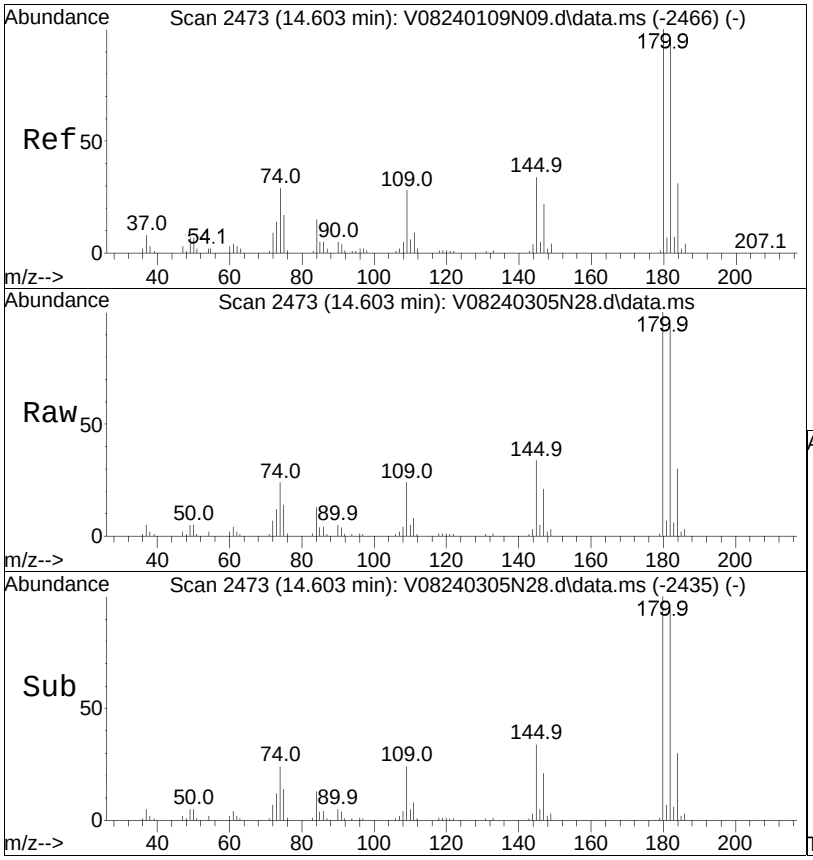




#110
Naphthalene
Concen: 10.48 ug/L
RT: 14.435 min Scan# 2441
Delta R.T. 0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:128 Resp: 142723

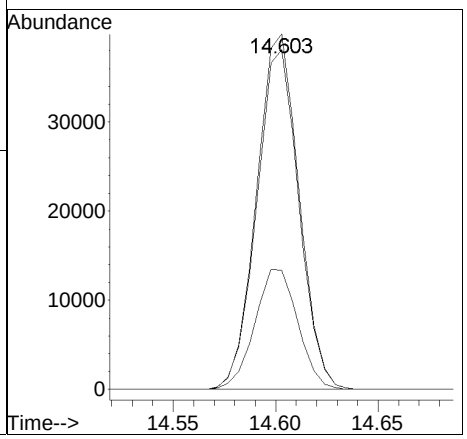




#111
1,2,3-Trichlorobenzene
Concen: 9.29 ug/L
RT: 14.603 min Scan# 2473
Delta R.T. -0.000 min
Lab File: V08240305N28.d
Acq: 6 Mar 2024 3:29 am

Tgt Ion:180 Resp: 57411

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
145	34.4	26.4	39.6

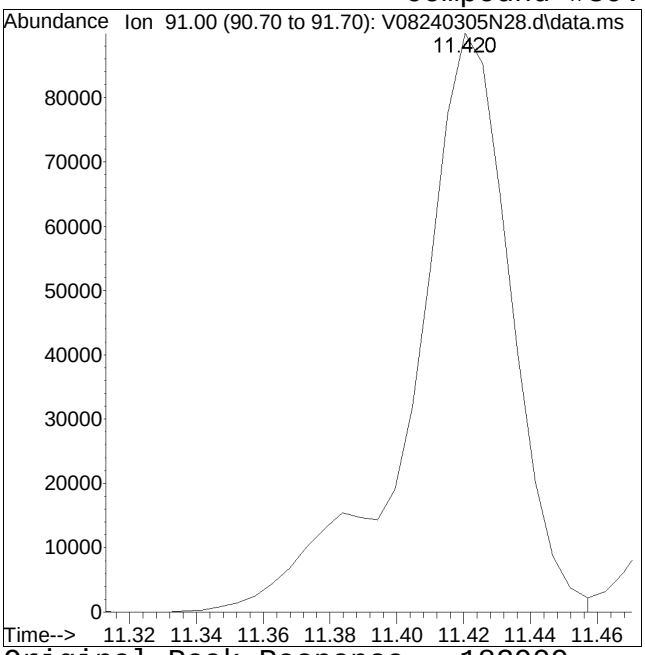


Manual Integration Report

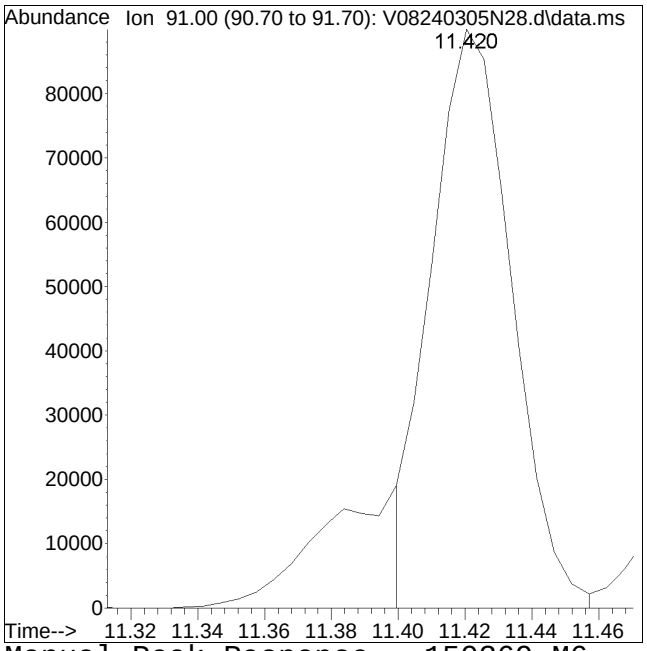
Data Path : K:\VOA108\2024\240305N\
Data File : V08240305N28.d
Date Inj'd : 3/6/2024 3:29 am
Sample : WG1893240-7,31,10,10,,G

QMethod : V108_240109N_8260.m
Operator : VOA108:RAW
Instrument : VOA 108
Quant Date : 3/6/2024 6:25 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 182909



Manual Peak Response = 150369 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 07 2024, 12:43 pm

Work Group: WG1893240 for Department: 31 GC/MS - Volatiles

Created: 07-MAR-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2411099-01	EB-022924	S	NYTCL-8260-R2	WATER	DONE	U	0314	0307	3E	Vial-B
L2411329-01	MW-02	S	NYTCL-8260-R2	WATER	DONE	U	0315	0308	S0	Vial-B
L2411329-03	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	0308	0308	S0	Vial-B
L2411464-01	RMW-5	S	NYTCL-8260	WATER	DONE	U	0315	0308	S0	Vial-B
L2411464-02	RMW-9R	S	NYTCL-8260	WATER	DONE	U	0315	0308	S0	Vial-B
L2411464-03	RMW-11R	S	NYTCL-8260	WATER	DONE	U	0315	0308	S0	Vial-B
L2411464-04	DUP030124	S	NYTCL-8260	WATER	DONE	U	0315	0308	S0	Vial-B
L2411464-05	FIELD BLANK 030124	S	NYTCL-8260	WATER	DONE	U	0315	0308	S0	Vial-B
WG1893240-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1893240-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1893240-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1893240-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1893240-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1893240-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1893240-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1893240-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1893240-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1893240-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1893240-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1893240-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1893240-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1893240-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1893240-4	WG1893240-3
WG1893240-6	L2411464-02
WG1893240-7	L2411464-02

Inst: VOA108 BFB: V10171 Method GC: 8260-ATOMX

Initials: MAG IS/SS: V10146 Autosampler: 8260

Date **01/09/24** ICAL: V10133D,V10172 Concentrator: 8260

Run **N** ICV: V10125, V10149, V10152, V10145, V10150, V10151 QC: Seq:

Vial	DATA FILE	SAMPLE	pH<2
1	V08240109NBF1	BFB TUNE	
1	V08240109N01	BLK	
2	V08240109N02	BLK	
3	V08240109N03	I8260STD0.19PPB	
4	V08240109N04	I8260STD0.19PPB	
5	V08240109N05	I8260STD0.5PPB	
6	V08240109N06	I8260STD0.5PPB	
7	V08240109N07	I8260STD2PPB	
8	V08240109N08	I8260STD2PPB	
9	V08240109N09	I8260STD10PPB	
10	V08240109N10	I8260STD30PPB	
11	V08240109N11	I8260STD80PPB	
12	V08240109N12	I8260STD120PPB	
13	V08240109N13	I8260STD200PPB	
14	V08240109N14	BLK	
15	V08240109N15	BLK	
16	V08240109N16	BLK	
17	V08240109N17	BLK	
18	V08240109N18	C8260STD10PPB	
19	V08240109N19	C8260STD10PPB	
20	V08240109N20	BLK	
21	V08240109N21	BLK	
22	V08240109N22	METHOD BLK	
23	V08240109N23	MDL LVL 11	
24	V08240109N24	MDL LVL 1	
25	V08240109N25	MDL LVL 2	
26	V08240109N26	BLK	
27	V08240109N27	BLK	

Inst: VOA108 BFB: V10280 Method GC: 8260-ATOMX
Initials: TMS IS/SS: V10272 Autosampler: 8260
Date **03/05/24** ICAL: V10260B,V10274 Concentrator: 8260
Run **N** QC: Seq:

Vial	DATA FILE	SAMPLE			pH<2
1	V08240305NBF1	BFB TUNE			
1	V08240305N01	8260 CCAL LCS			
2	V08240305N02	8260 CCAL LCSD			
3	V08240305N03	8260 CCAL			
4	V08240305N04	BLK			
5	V08240305N05	METHOD BLK			
6	V08240305N06	L2411464-05,31,10,10,,A	NYTCL	FB	pH<2
7	V08240305N07	L2411464-04,31,10,10,,A	NYTCL		pH<2
8	V08240305N08	L2411464-03,31,10,10,,A	NYTCL		pH<2
9	V08240305N09	L2411464-02,31,10,10,,A	NYTCL		pH<2
10	V08240305N10	L2411464-01,31,10,10,,A	NYTCL		pH<2
11	V08240305N11	L2411329-01,31,10,10,,A	NY/R2		pH<2
12	V08240305N12	L2411329-03,31,10,10,,A	NY/R2	TB	pH<2
13	V08240305N13	L2411099-01,31,10,10,,C,R3E	NY/R2		pH<2
14	V08240305N14	L2411328-01,31,10,10,,A	NJ/15/TBA		pH<2
15	V08240305N15	L2411328-02,31,10,10,,A	NJ/15/TBA		pH<2
16	V08240305N16	L2411328-03,31,10,10,,A	NJ/15/TBA		pH<2
17	V08240305N17	L2411423-01,31,10,10,,A	NJ/15		pH<2
18	V08240305N18	L2411423-02,31,10,10,,A	NJ/15		pH<2
19	V08240305N19	L2411349-01,31,10,10,,A	NJ-3/15	TB	pH<2
20	V08240305N20	L2411349-02,31,10,10,,A	NJ-3/15	FB	pH<2
21	V08240305N21	L2411349-06,31,10,10,,A	NJ-3/15		pH<2
22	V08240305N22	L2411349-03D,31,2.5,10,,A	NJ-3/15		pH<2
23	V08240305N23	L2411349-04D,31,5.0,10,,A	NJ-3/15		pH<2
24	V08240305N24	BLK			
25	V08240305N25	L2411349-05D,31,2.0,10,,A	NJ-3/15		pH<2
26	V08240305N26	L2411096-09D2,31,0.002,10,,B,R3E	8260/ACE	COMP	pH<2
27	V08240305N27	L2411464-02MS,31,10,10,,D	NYTCL		pH<2
28	V08240305N28	L2411464-02MSD,31,10,10,,G	NYTCL		pH<2
29	V08240305N29	HSTD			
30	V08240305N30	BLK			
31	V08240305N31	BLK			

IC/EC Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C203079

Site Name Parkchester Crossing

Site Address: 1590 White Plains Road Zip Code: 10462
City/Town: Bronx
County: Bronx
Site Acreage: 1.493

Reporting Period: April 23, 2023 to April 23, 2024

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☑	☐
7. Are all ICs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C203079 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
3952-1	ZP Realty LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h) (3);

2. Allows the use and development of the controlled property for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

4. Requires compliance with the Department approved Site Management Plan.

3952-17	ZP Realty LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h) (3);

2. Allows the use and development of the controlled property for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

4. Requires compliance with the Department approved Site Management Plan.

3952-23	ZP Realty LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h) (3);

2. Allows the use and development of the controlled property for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

4. Requires compliance with the Department approved Site Management Plan.

3952-7 ZP Realty LLC

Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h) (3);

2. Allows the use and development of the controlled property for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

4. Requires compliance with the Department approved Site Management Plan.

3952-8 ZP Realty LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h) (3);

2. Allows the use and development of the controlled property for restricted residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

4. Requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
3952-1	Groundwater Treatment System Cover System Fencing/Access Control Monitoring Wells

1. A cover system to allow for restricted residential use of the site.

2. In-situ chemical oxidation or other in-situ technologies to treat volatile contaminants in groundwater.

3952-17	Groundwater Treatment System Cover System Fencing/Access Control

1. A cover system to allow for restricted residential use of the site.

2. In-situ chemical oxidation or other in-situ technologies to treat volatile contaminants in groundwater.

3952-23	Groundwater Treatment System Cover System Fencing/Access Control Groundwater Treatment System Cover System Fencing/Access Control Groundwater Treatment System Cover System Fencing/Access Control

1. A cover system to allow for restricted residential use of the site.

2. In-situ chemical oxidation or other in-situ technologies to treat volatile contaminants in groundwater.

3952-7	Groundwater Treatment System Cover System Fencing/Access Control Monitoring Wells

1. A cover system to allow for restricted residential use of the site.

2. In-situ chemical oxidation or other in-situ technologies to treat volatile contaminants in groundwater.

3952-8	Groundwater Treatment System Cover System Fencing/Access Control Groundwater Treatment System

Parcel	Engineering Control
	Cover System Fencing/Access Control

1. A cover system to allow for restricted residential use of the site.

2. In-situ chemical oxidation or other in-situ technologies to treat volatile contaminants in groundwater.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C203079

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MICHAEL DAVIS at _____,
print name print business address

am certifying as AUTHORIZED SIGNATORY FOR OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/20/2024
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Noelle Clarke at 209 Shafter St, Islandia, NY,
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

5/17/2024
Date

Site Inspection Checklist and Photo Log

Site Inspection Checklist, 1590 White Plains Road, Parkchester, Bronx, NY

Date: Friday, March 1, 2024

Completed By: Michael Sarni

			Status			
Description			**Ok**	**Action Req.**	**N/A**	**Actions Taken / Comments**
Site Cover System						
	1	Inspect site cover system for cracks and leaks.	X			**Site cover system observed to be in good condition**
Institutional Controls						
	1	Confirm that the site usage is in compliance with the institutional controls.	X			**Site is currently not occupied. Institutional controls within compliance.**
Site Records						
	1	Inspect site records and confirm that they are up to date (e.g., Site Inspection Checklists, sampling logs, etc.)	X			
	2	Inspect integrity of Cover System	X			**Site cover system observed to be in good condition**

Photograph 1: View of Site on March 1, 2024. Site Cover in place and comprised of soil cover consisting of a minimum of two feet of clean imported fill placed over a demarcation layer, with the upper six inches consisting of gravel.

Photograph 2: View of Site on March 1, 2024. General Site Conditions. Site cover system observed to be in good condition.

Photograph 3: View of Site on March 1, 2024. General Site Conditions. Site cover system observed to be in good condition.

Photograph 4: View of Site on March 1, 2024. General Site Conditions. Site cover system observed to be in good condition.

PLATES

1. Volatile Organic Compounds in Groundwater (Pre- and Post-ISCO)

RMW-9R	9/30/2019	11/5/2019	9/3/2020	12/3/2020	4/1/2021	4/1/2021 DUP	6/3/2021	09/02/2021	12/02/2021	03/03/2022	03/03/2022 DUP	09/08/2022	3/1/2024
VOCs													
Benzene	ND	ND	**9.7**	**1.7**	**1.6**	**1.4**	NE	ND	**59**	**3.8**	**3.7**	**5.1**	**2.2**
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	**17**	ND	ND	ND	NE
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND	NE
O-Xylene (1,2-Dimethylbenzene)	ND	ND	ND	ND	ND	ND	ND	ND	**12**	NE	NE	NE	NE
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	**8.2**	ND	ND	ND	NE
Tert-Butyl Methyl Ether	**20**	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	**24**	NE	NE	**5.5 J**	**8.6**

RMW-13	9/30/2019	9/30/2019 DUP	11/5/2019	9/3/2020	12/3/2020	4/1/2021	6/3/2021	09/02/2021	12/02/2021	03/03/2022
VOCs										
Bromomethane	ND	ND	**5.9**	NE	NE	ND	ND	ND	ND	ND

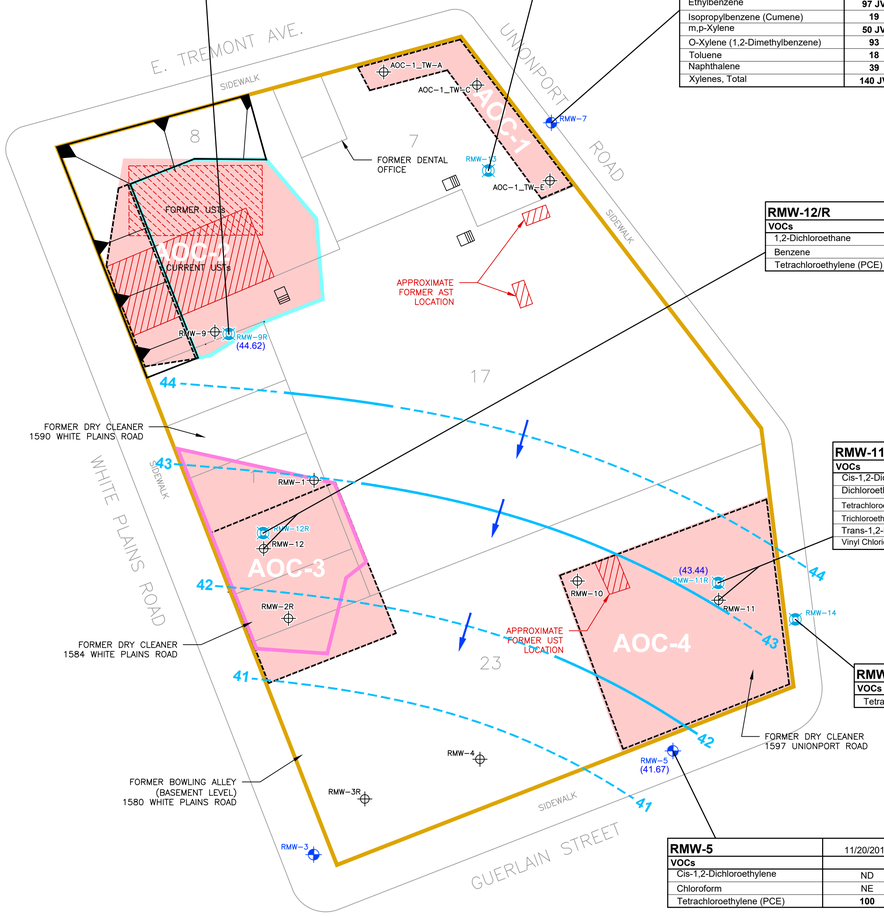
RMW-7	11/20/2018	7/16/2019	9/30/2019	11/5/2019	9/3/2020	12/3/2020	4/1/2021	6/3/2021	09/02/2021	09/02/2021 DUP	12/02/2021	12/02/2021 DUP	03/03/2022
VOCs													
1,2,4-Trimethylbenzene	**18**	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**110**	NE	**34**	**27**	**5.1**	**2.2**	ND	**2.6**	ND	NE	**3.2**	**4.2**	ND
Ethylbenzene	**97 JV**	ND	NE	**7.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	**19**	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	**50 JV**	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene (1,2-Dimethylbenzene)	**93**	ND	**9.7**	**12**	NE	NE	ND	ND	ND	ND	NE	NE	ND
Toluene	**18**	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**39**	ND	**28**	NE	ND	NE	ND	NE	ND	ND	ND	ND	ND
Xylenes, Total	**140 JV**	ND	**11 J**	**20**	NE	NE	ND	NE	ND	ND	NE	NE	ND

RMW-12/R	11/9/2018	9/30/2019	11/5/2019	9/3/2020	9/3/2020 DUP	12/3/2020	12/3/2020 DUP	4/1/2021	6/3/2021	09/02/2021	12/02/2021	03/03/2022
VOCs												
1,2-Dichloroethane	**0.86 J**	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
Benzene	ND	ND	ND	ND	ND	**1.2**	**1.4**	ND	NE	NS	ND	ND
Tetrachloroethylene (PCE)	**130**	**12**	NE	NE	NE	NE	NE	NE	NE	NS	ND	NE

RMW-11/R	11/13/2018	9/30/2019	11/5/2019	9/3/2020	12/3/2020	4/1/2021	6/3/2021	09/02/2021	12/02/2021	03/03/2022	09/08/2022	3/1/2024
VOCs												
Cis-1,2-Dichloroethylene	**6.9**	**19**	**48**	**120**	**39**	**17**	**27**	**20**	**21**	**16**	**64**	**8.2**
Dichloroethylenes	NA	**19**	**48**	**120 J**	**41 J**	**18 J**	**29 J**	**22 J**	**25**	**20**	**75**	**14**
Tetrachloroethylene (PCE)	**330**	**140**	**180**	**79**	**83**	**64**	**63**	**20**	**43**	**41**	**38**	**32**
Trichloroethylene (TCE)	**12**	**9.1**	**15**	**26**	**22**	**15**	**20**	**7.9**	**23**	**21**	**25**	**19**
Trans-1,2-Dichloroethene	ND	ND	ND	NE	NE	NE	NE	NE	NE	NE	**11**	**5.3**
Vinyl Chloride	NE	ND	NE	**15**	**7.7**	**3**	**4.8**	**4.9**	**5**	**2.6**	**11**	NE

RMW-14	9/30/2019	11/5/2019	11/5/2019 DUP	9/3/2020	12/3/2020	4/1/2021	6/3/2021	6/3/2021 DUP	09/02/2021	12/02/2021	03/03/2022
VOCs											
Tetrachloroethylene (PCE)	**9**	**12**	**12**	**9**	**6.9**	**7.9**	**6.2**	**6.3**	**5.2**	NE	NE

RMW-5	11/20/2018	11/20/2018 DUP	9/30/2019	11/5/2019	9/3/2020	12/3/2020	4/1/2021	6/3/2021	09/02/2021	12/02/2021	03/03/2022	09/08/2022	09/08/2022 DUP	3/1/2024
VOCs														
Cis-1,2-Dichloroethylene	ND	ND	NE	**6.5**	NE	NE	ND	ND	ND	NE	NE	ND	ND	NE
Chloroform	NE	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	**12**	**12**	ND
Tetrachloroethylene (PCE)	**100**	**95**	**16**	**77**	**14**	**16**	NE	NE	NE	**13**	**32**	NE	NE	**7.9**



LEGEND

- SITE BOUNDARY
- RMW-8 — LOCATION AND DESIGNATION OF PERMANENT MONITORING WELL AND SOIL BORING
- RMW-9R — LOCATION AND DESIGNATION OF POST-REMEDIAL MONITORING WELL
- RMW-1 — LOCATION AND DESIGNATION OF TEMPORARY MONITORING WELL AND SOIL BORING
- TAX LOT BOUNDARY
- 17 — TAX LOT NUMBER
- CATCH BASIN
- AOC — AREA OF CONCERN
- AST — ABOVEGROUND STORAGE TANK
- UST — UNDERGROUND STORAGE TANK
- AREA OF CONCERN BASED ON REMEDIAL INVESTIGATION RESULTS
- LIMITS OF EXCAVATION TO APPROXIMATELY 5 FEET BELOW GRADE SURFACE
- LIMITS OF EXCAVATION TO APPROXIMATELY 23–24 FEET BELOW GRADE SURFACE
- LIMITS OF IN SITU GROUNDWATER REMEDIATION
- SLOPED EXCAVATION
- (44.62) — GROUNDWATER ELEVATION, IN FEET ABOVE MEAN SEA LEVEL
- 42 — LINE OF EQUAL GROUNDWATER ELEVATION, IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

TYPICAL DATA BOX INFORMATION

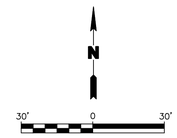
SAMPLE ID# → RMW-11/R	11/13/2018 ← SAMPLE DATE
VOCs (ANALYTES →)	
Cis-1,2-Dichloroethylene	**6.9** (← CONCENTRATION)
Dichloroethylenes	NA
Tetrachloroethylene (PCE)	**330**
Trichloroethylene (TCE)	**12**
Vinyl Chloride	NE

Parameter	Standards* (µg/L)
VOCs	
1,2,4-Trimethylbenzene	5
Benzene	1
Bromomethane	5
Cis-1,2-Dichloroethylene	5
Chloroform	7
Dichloroethylenes	5
1,2-Dichloroethane	0.6
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
Tert-Butyl Methyl Ether	10
Naphthalene	10
O-Xylene (1,2-Dimethylbenzene)	5
Toluene	5
m,p-Xylene	5
Tetrachloroethylene (PCE)	5
Trichloroethylene (TCE)	5
Trans-1,2-Dichloroethene	5
Vinyl Chloride	2
Xylenes, Total	5

Concentrations in µg/L
µg/L - Micrograms per liter
* - NYSDEC AWQSGVs
NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
NE - No exceedances of NYSDEC AWQSGV
ND - No detection
NA - Not analyzed for by laboratory

NOTES

1. PRE-REMEDIATION GROUNDWATER DATA FROM PREVIOUS INVESTIGATIONS IS SHOWN, WHERE AVAILABLE, IN ADDITION TO BASELINE DATA COLLECTED ON SEPTEMBER 30, 2019.
2. POST-REMEDIATION GROUNDWATER DATA WAS COLLECTED ON NOVEMBER 5, 2019, SEPTEMBER 3, 2020, AND DECEMBER 3, 2020.
3. ISCO INJECTIONS STARTED ON OCTOBER 2, 2019 AND WERE COMPLETED ON OCTOBER 17, 2019.



Title:
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
(PRE- AND POST-ISCO)

PARKCHESTER CROSSING
1590 WHITE PLAINS ROAD, BRONX, NEW YORK

Prepared for:
ZP REALTY, LLC

ROUX

Compiled by: D.K.	Date: 5/7/2024	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr: R.H.	Project: 2530.0001Y000	
File: 2530.0001Y150.01.DWG		

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