

REVIEWED

By Anne Nord at 11:08 am, Jan 08, 2021

1/6/2021

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Worklist: 4718

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2020-3460	1	UCK	AM 2 Urine Toxi A



Method had not been run for over a year, so the positive and negative controls were extracted and run on the instrument prior to doing the extraction with the case sample.

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AM 2: De-Tox Tube A Urine Extraction

Extraction Date: 01/06/21

Analyst: Celena Shrum

Negative Urine: POC031319

GC/MS ID: Major Mass Spec

Positive Control Working Solution Lot: WS010621

Pre-Analytic:

- 1. *Positive Control Working Solution Preparation Instructions:*
Tube A positive control may be commercially obtained or prepared in-house. At a minimum, the control must contain at least one phenethylamine at an approximate concentration between 500 and 3000 ng/mL, and one opiate at an approximate concentration between 300 and 3000 ng/mL.
- 2. Verify Tune and Tune evaluation completed within the previous 7 days. Tune and Tune evaluation reports initialed and filed.
- 3. Create GCMS sequence to include controls, case blanks and case samples.

Analytic:

- 1. Remove working solutions, controls, and samples from cold storage.
- (Optional Steps for Enzyme Hydrolysis- completed in addition to General extraction without Hydrolysis)*
 - 2a. In labeled round bottom Extraction tubes: add 4.5mL of case samples, and controls.
 - 2b. Add 150uL of 2M acetate buffer, vortex.
 - 2c. Add 100uL glucuronidase, cap and rock gently.
 - 2d. Heat at 60C for 2 hours. Allow to cool before proceeding to step 3.
- 3. To each labeled De-Tox Tube add 5mL sample, Positive control: spike positive control working solution.
- 4. Place on tube rocker at ambient temp for approx. 10 minutes.
- 5. Centrifuge for approx. 10 min at ~2500-3000rpm.
- 6. Transfer solvent (upper layer) to new tube, and evaporate to ~100-300uL.
- 7. Transfer to labeled ALS vial with insert.
- 8. Place ALS Vials in appropriate location on GCMS rack and run using appropriate GCMS method.

Post-Analytic

- 1. Complete Data analysis on all samples and corresponding sample blanks
 GCMS Data path: D:\DATA\CDS\2021\am 2 worklist 4718
- 2. Did positive and negative control samples provide intended response? Y / N
- 3. Sample Criteria for ID: RT +/- 0.2 min. (or 0.1 min. for phenethylamines)
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Working solution prep sheet(s), Positive control GCMS data printouts,

COMMENTS: This data is being used in conjunction with the AM 28 data.



Idaho State Police Forensic Services

AM #2 General Extraction of Urine for Basic/Neutral or Acidic/Neutral Compounds

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
Negative Urine	POC031319	N/A	03/13/2019		
Toxi-A Positive Control	WS010621	01/06/2022	01/06/2021		
Toxi-A Tube	61501	N/A	06/26/2017		

Toxi-A Positive Control Working Solution (Lot: WS010621)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Methamphetamine	Cerilliant	FE01152002
Morphine	Cerilliant	FE06231704
Methanol (LCMS Grade)	Fisher	200921

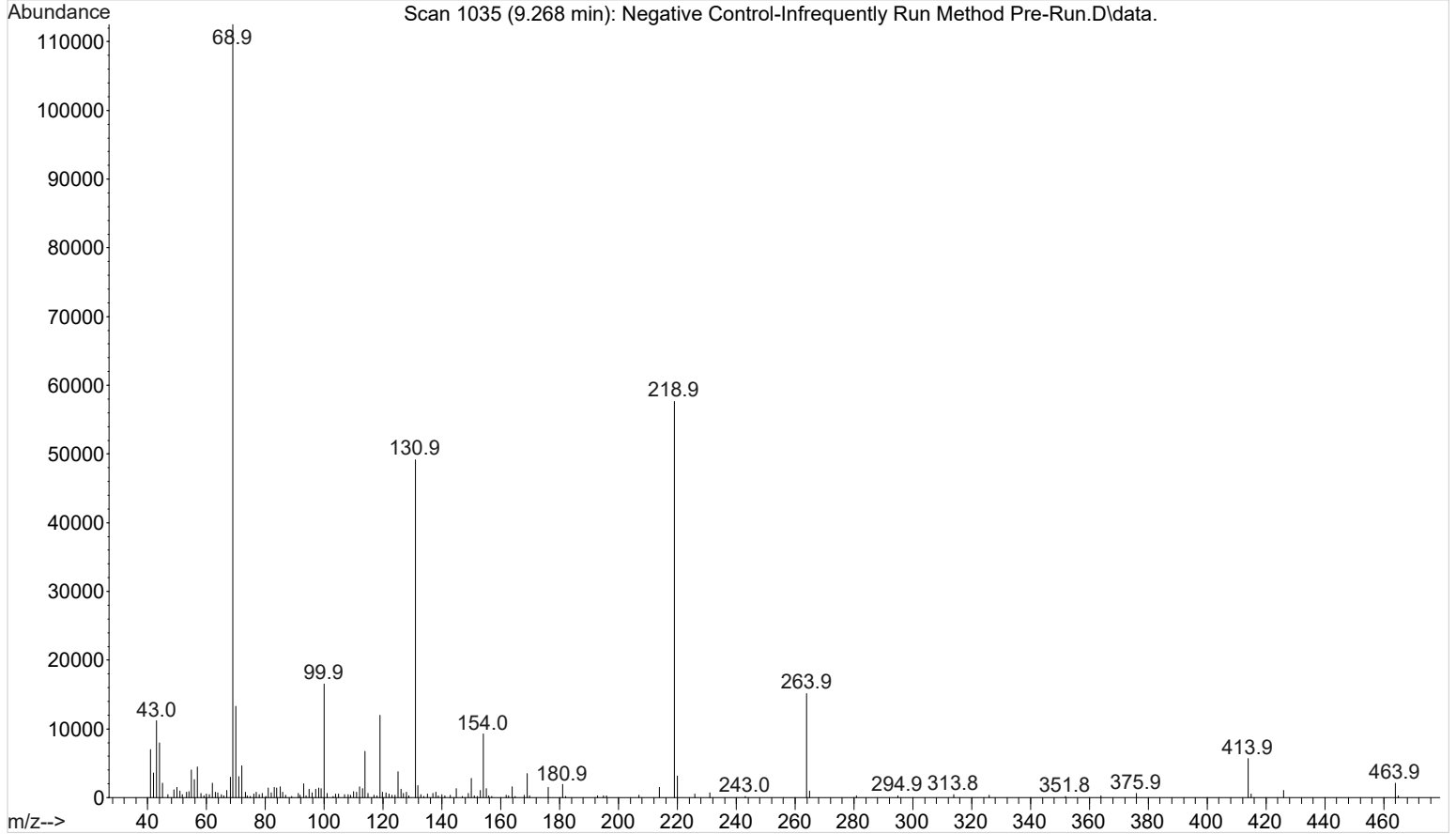
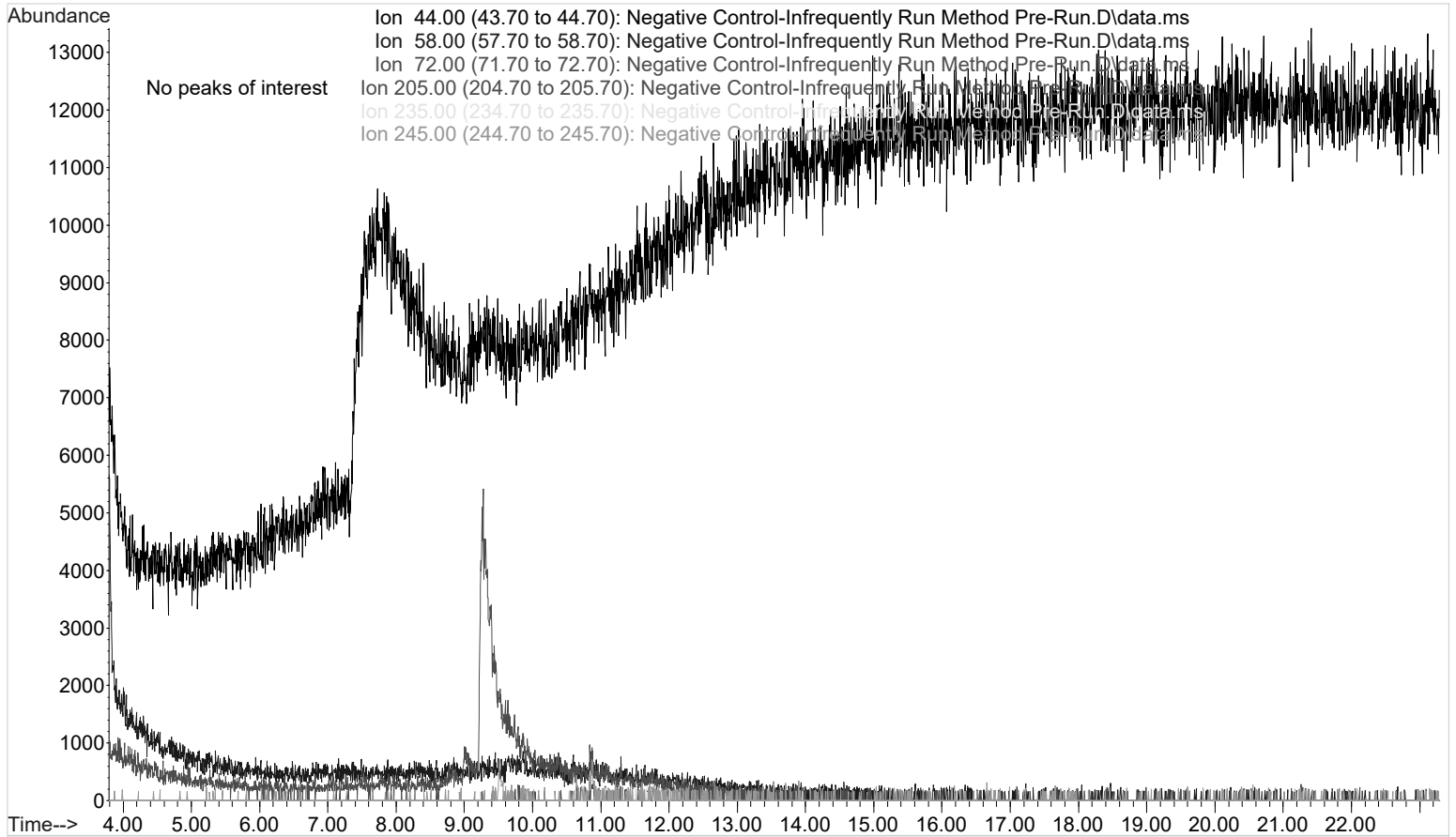
Controls were prepared on 01/06/2021 by CS.

MeOH Control: 100ul of each compound was added to 9800ul MeOH.

Positive Urine Control: 500ul of MeOH Control was added to 4500ul of negative urine.

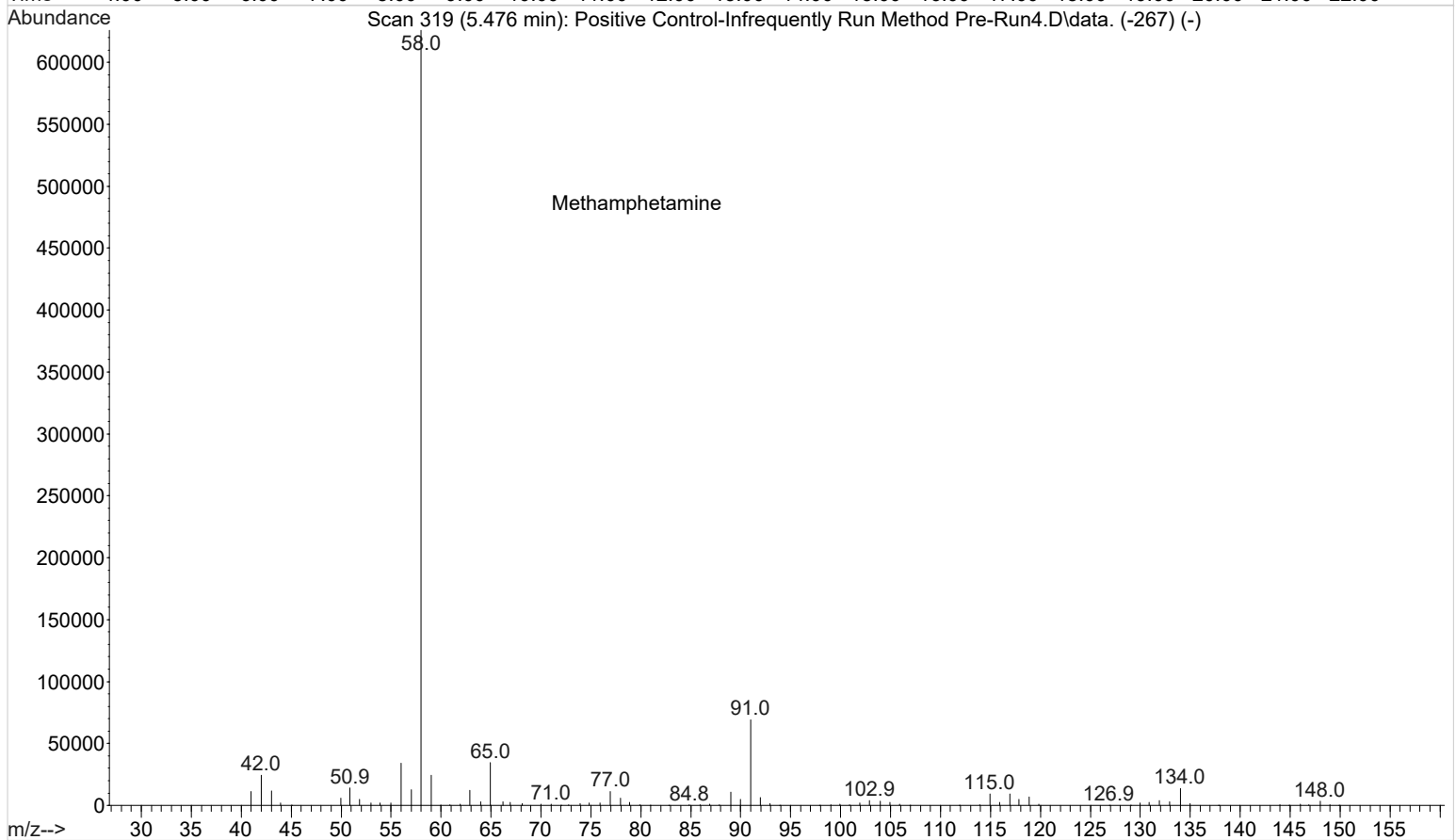
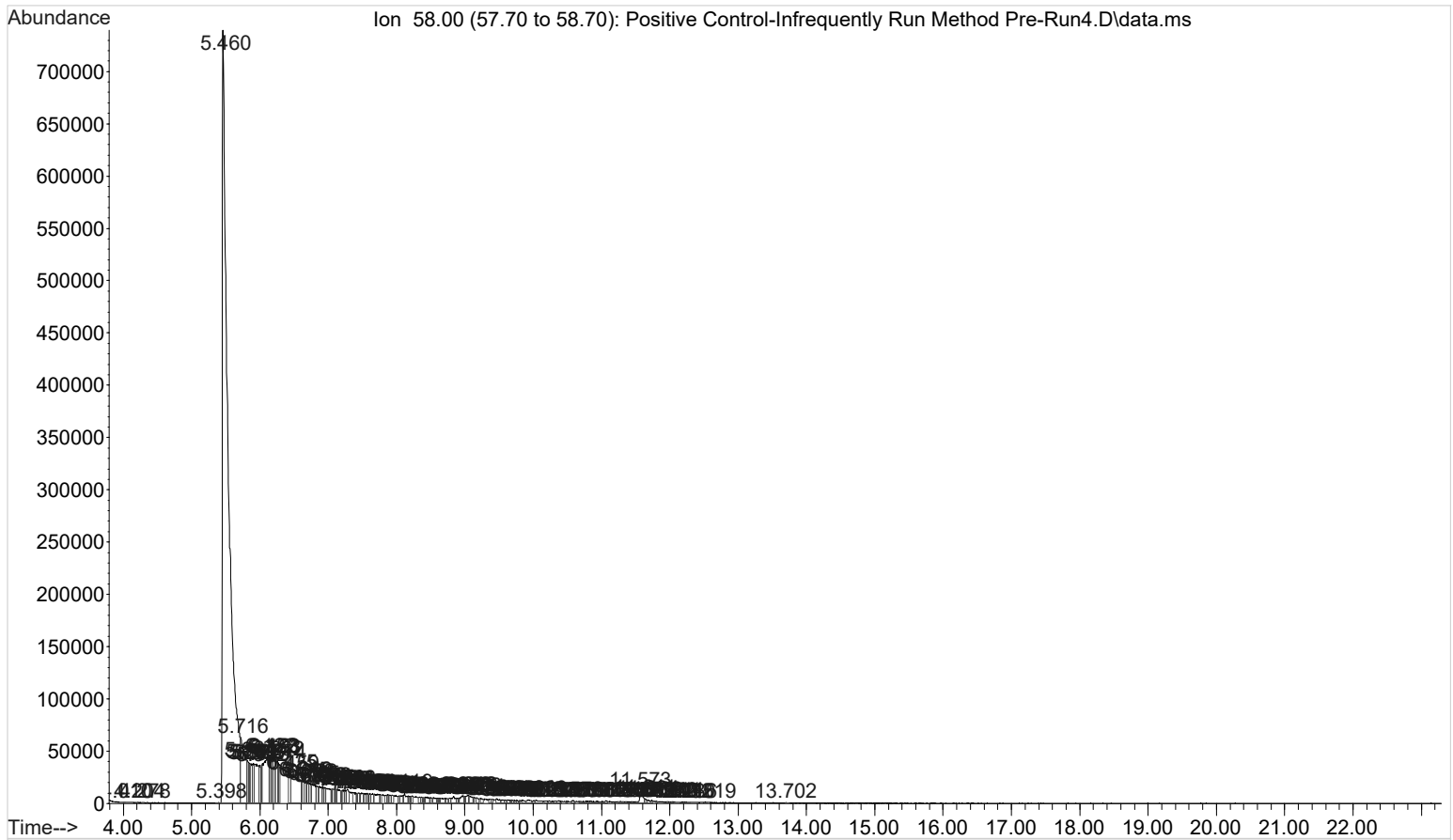
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Operator : ISP\datastor
Instrument : Major Mass Spec
Acquired : 06 Jan 2021 11:34 using AcqMethod UTOX GEN DRUG 6-2017extended.M
Sample Name: Negative Control
Misc Info : POC031319; AM #2

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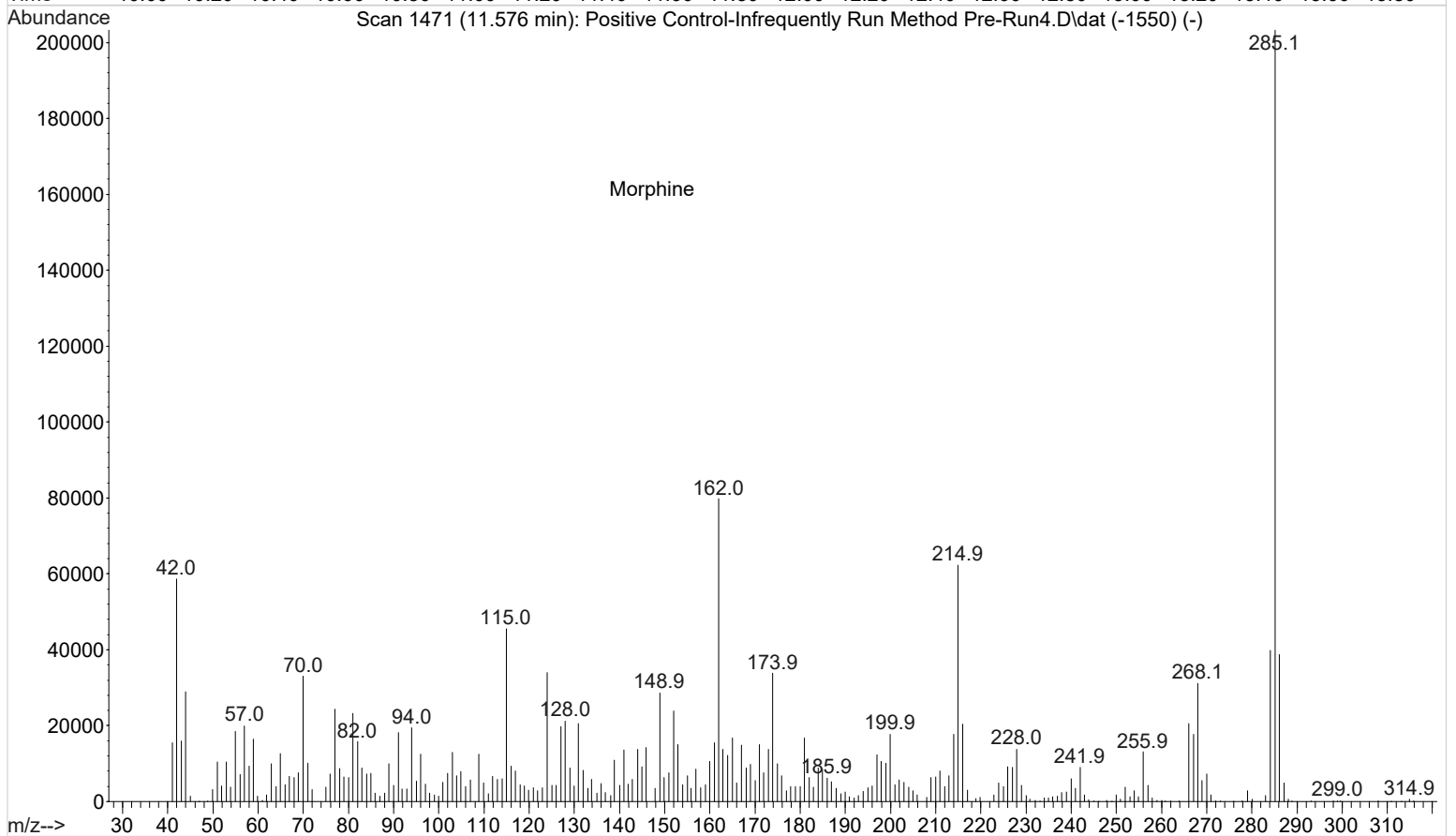
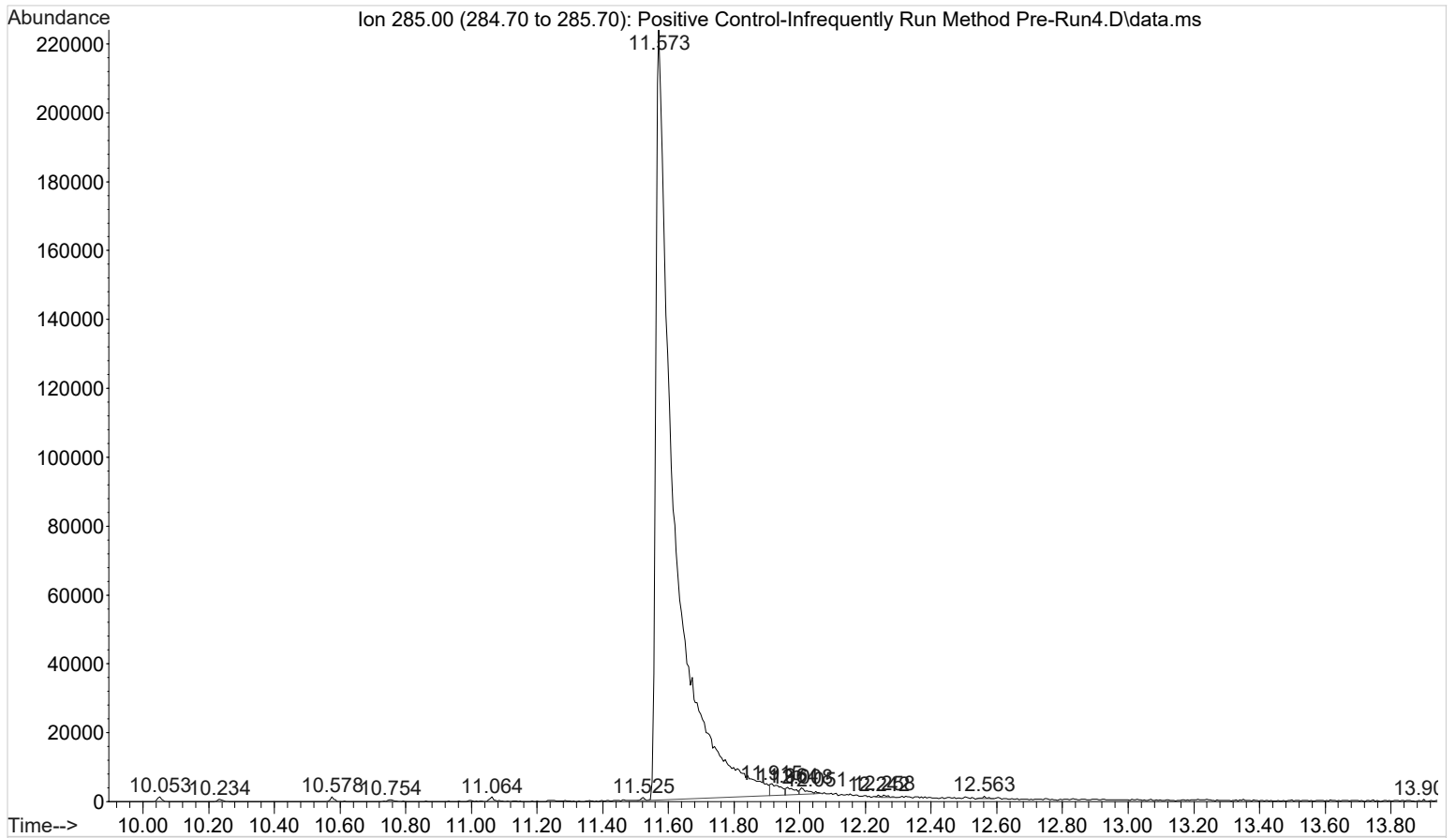
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... ntrol-Infrequently Run Method Pre-Run4.D
Operator : ISP\datastor
Instrument : Major Mass Spec
Acquired : 06 Jan 2021 14:21 using AcqMethod UTOX GEN DRUG 6-2017extended.M
Sample Name: Positive Control4
Misc Info : POC031319 + WS010621; AM #2

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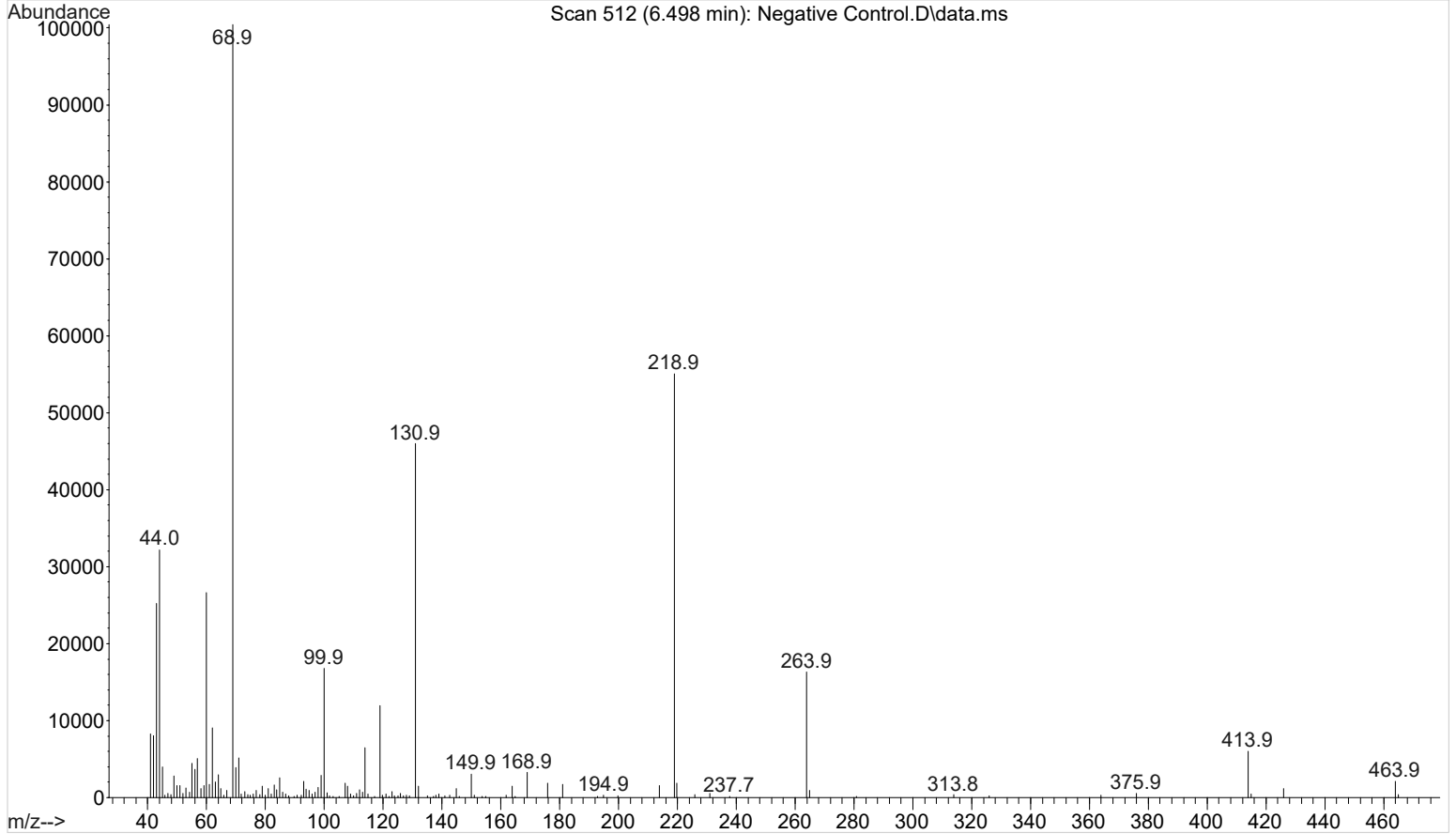
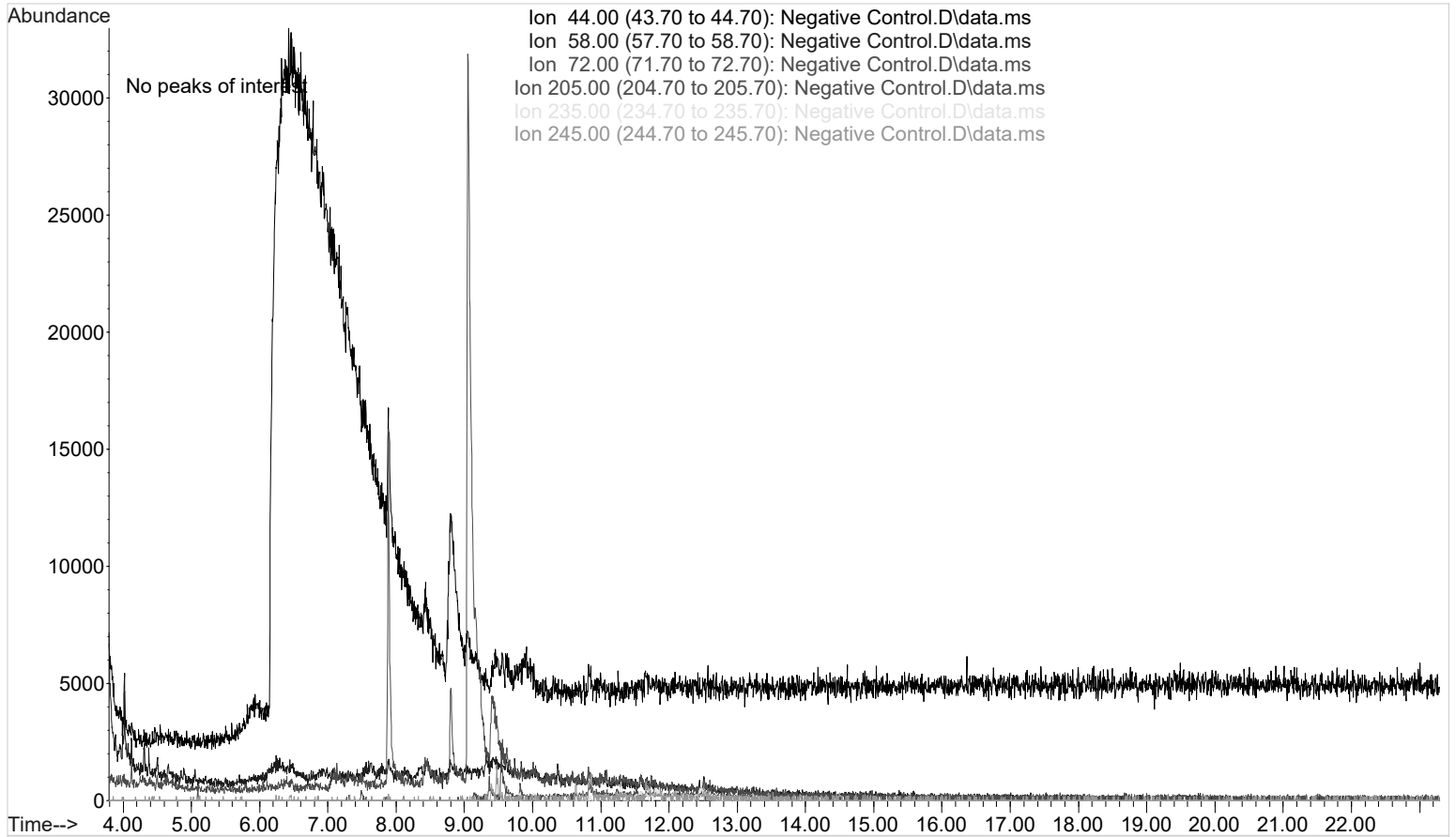
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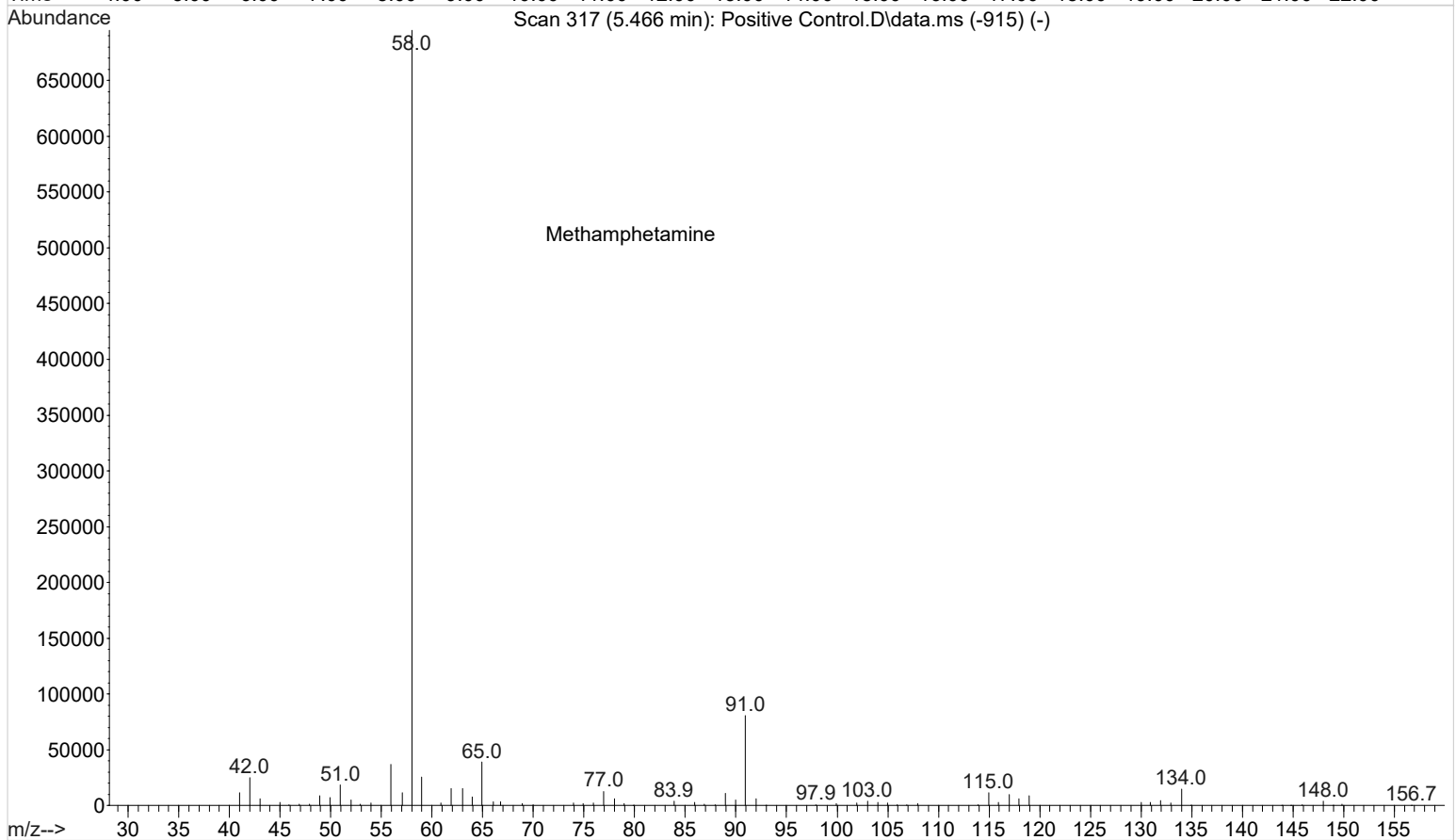
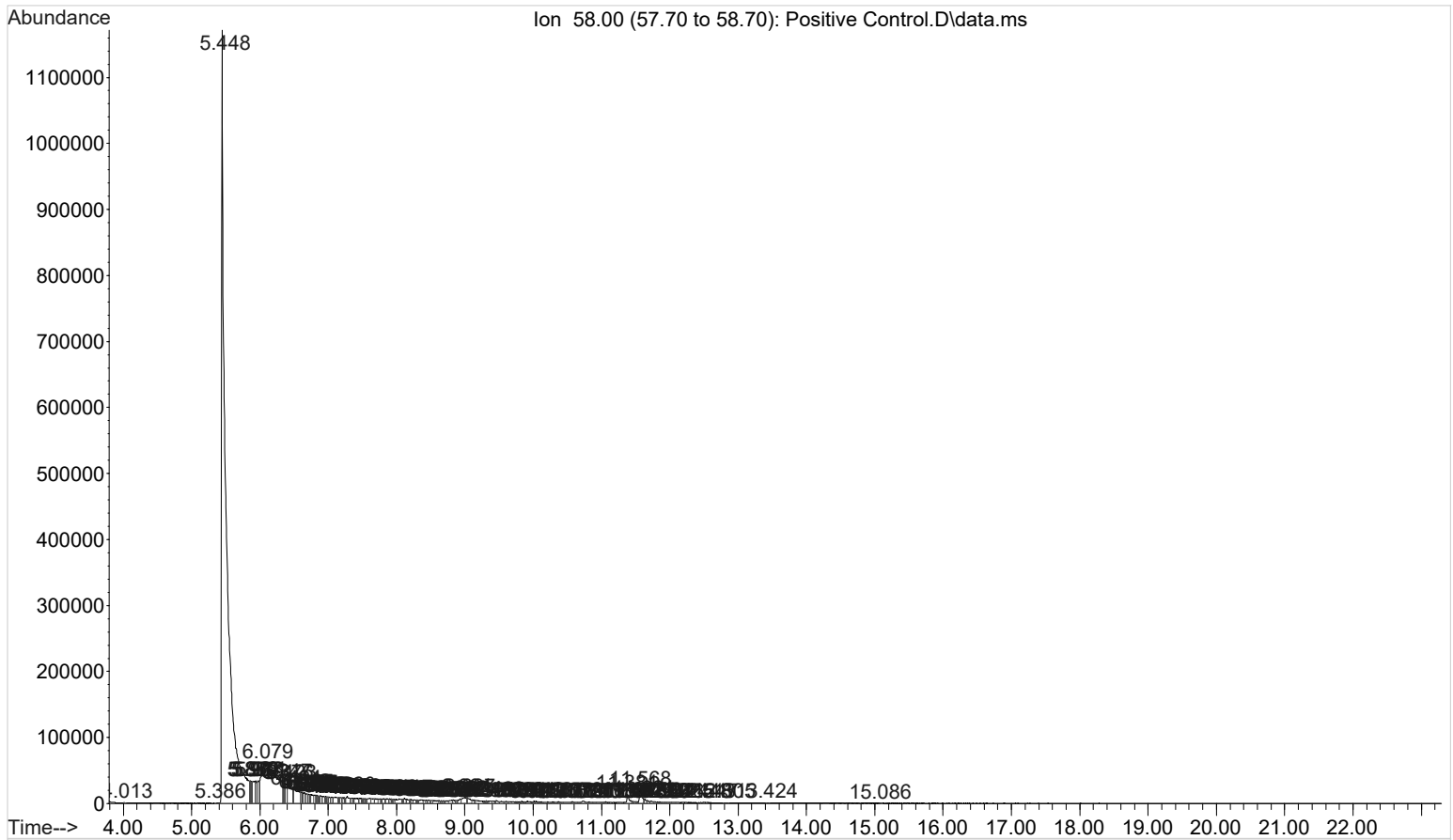
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Instrument : Major Mass Spec
Acquired : 06 Jan 2021 15:20 using AcqMethod UTOX GEN DRUG 6-2017extended.M
Sample Name: Negative Control
Misc Info : POC031319; AM #2

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File :G:\TOX\Pocatello\MMS\CDS\2021\am 2 worklist 4718\Positive Co
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Operator : ISP\datastor
Instrument : Major Mass Spec
Acquired : 06 Jan 2021 15:49 using AcqMethod UTOX GEN DRUG 6-2017extended.M
Sample Name: Positive Control
Misc Info : POC031319 + WS010621; AM #2

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File :G:\TOX\Pocatello\MMS\CDS\2021\am 2 worklist 4718\Positive Control.D
... ntrol.D
Operator : ISP\datastor
Instrument : Major Mass Spec
Acquired : 06 Jan 2021 15:49 using AcqMethod UTOX GEN DRUG 6-2017extended.M
Sample Name: Positive Control
Misc Info : POC031319 + WS010621; AM #2

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