10/1/2020

REVIEWED
By Britany Wylie at 7:37 am, Oct 05, 2020

Worklist: 4552

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2020-1805	1	UCK	AM 2 Urine Toxi A
C2020-1823	2	UCK	AM 2 Urine Toxi A

AM 2: De-Tox Tube A Urine Extraction

Extraction Date: 10/1/20 Analyst: Anne Nord

Negative Urine Lot: 10120 **GC/MS ID**: 65198
(Optional Hydrolysis) Glucuronidase Lot: _____

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
☒ 2. Did positive and negative control samples provide intended response? Yes
☒ 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: Samples were extracted 9/25/20 the morphine in the positive control was not detected, the liner and septa on the GCMS was changed; the morphine still did not come out the samples were not evaluated in this run. The gold seal was changed and the front of the column was clipped. The samples were re-extracted on 9/29/20 the morphine still did not come out the samples were not evaluated in this run. The liner, septa, and gold seal were changed; the injection port was cleaned. I did a test 10/1/20 the salts have settled in the bottom of the de-tox tubes. I extracted the positive control using a new lot of tubes and ensuring the salts moved from the bottom of the tube. Morphine was detected. The samples were re-extracted 10/1/20 and evaluated. (the negative control used for the 9/25 and 9/29 extraction was lot 73020)

Toxicology AM method 2 control prep info 10000 ng/ml

working solution ~~20000~~ ng/ml in meoh methamphetamine, morphine

Stock solution 1mg/ml 100 ul each in 9800ul meOH

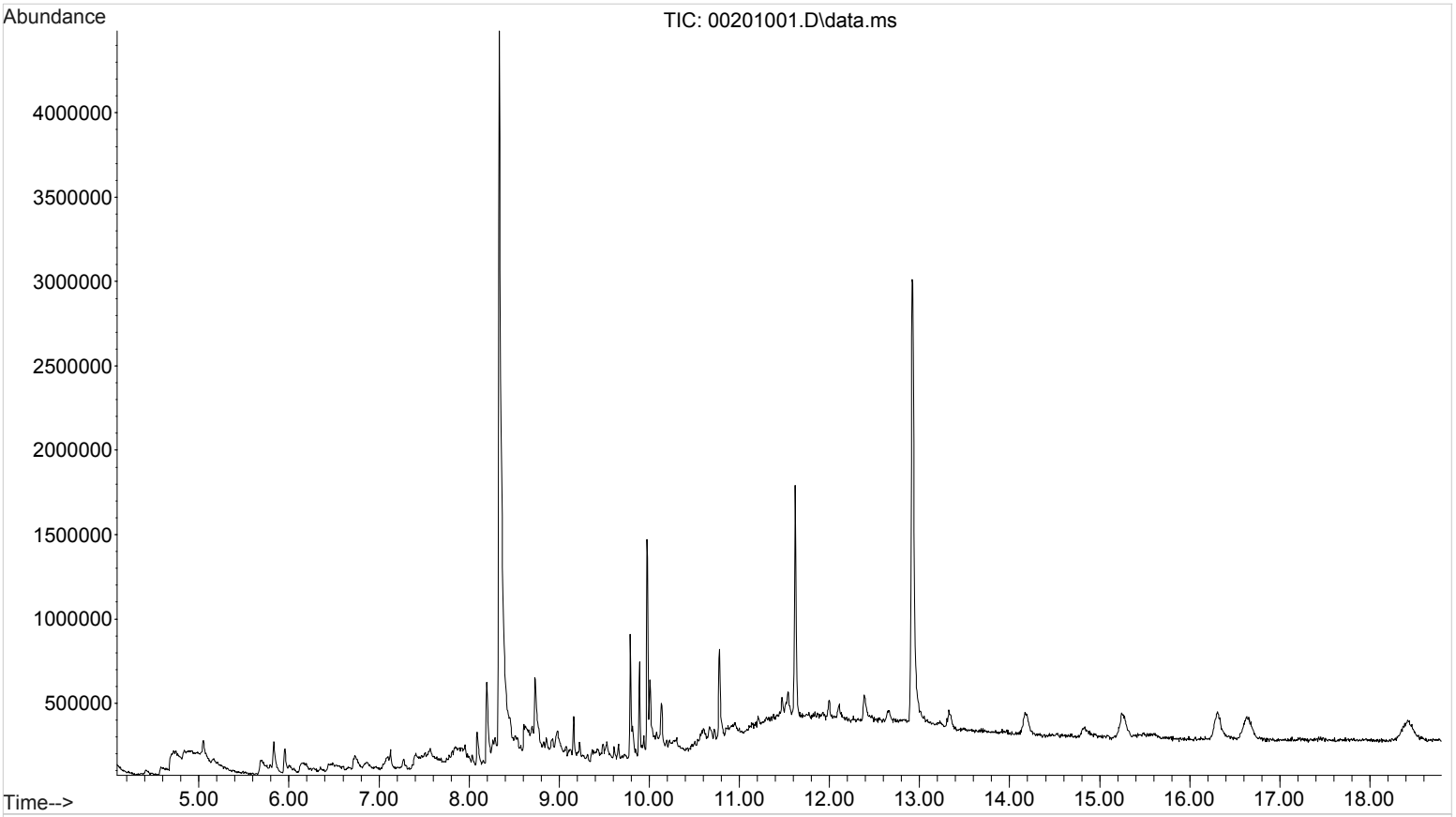
ppd 9/25/20: Exp: 9/25/21 lot 92520 by amn

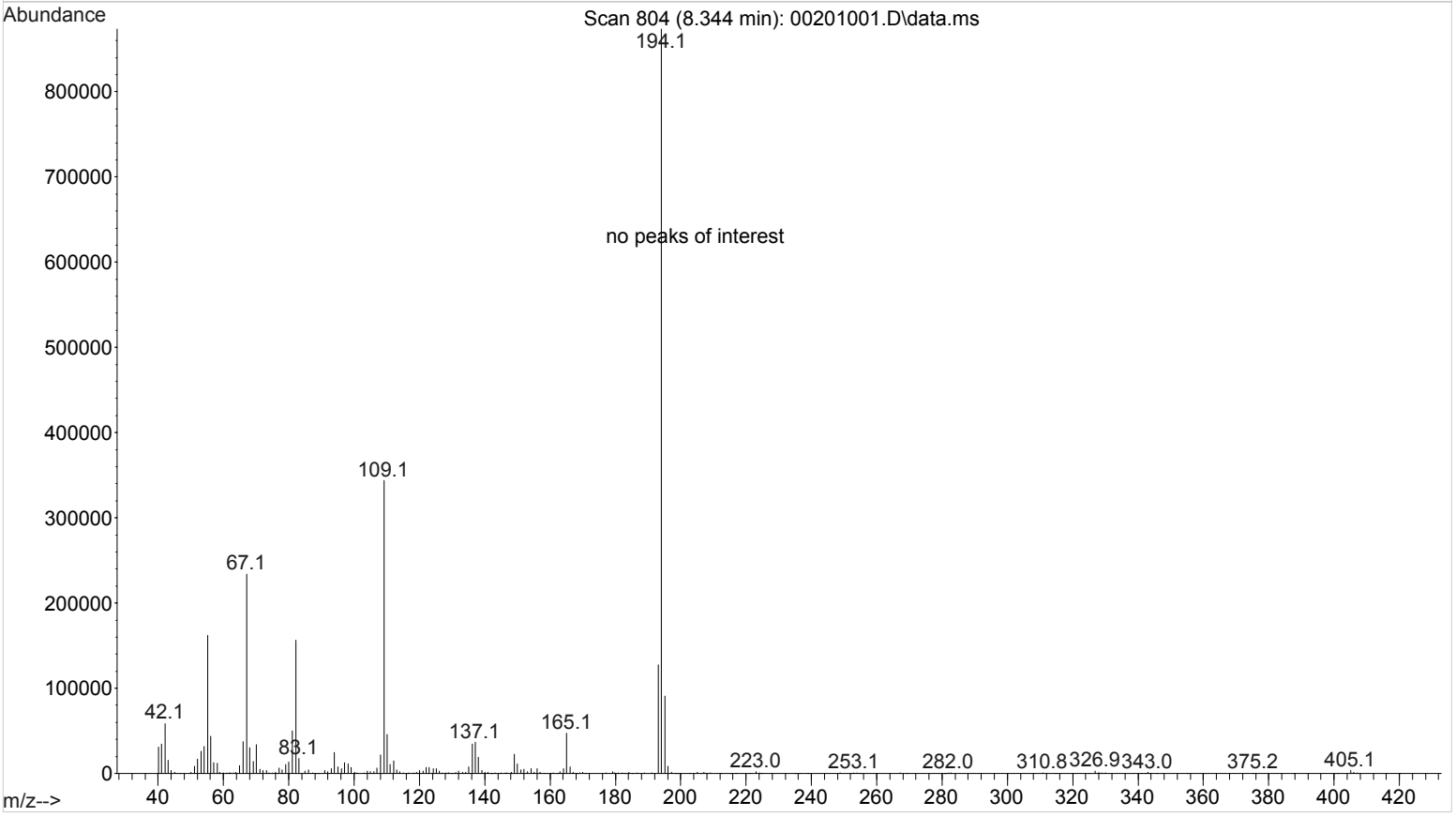
Drug	lot	expiration
Methamphetamine	FE08101708	10/1/2022
Morphine	FE08221801	1/1/2024

AM 2 control add 500 ul working solution to 4500 ul negative urine and extract.

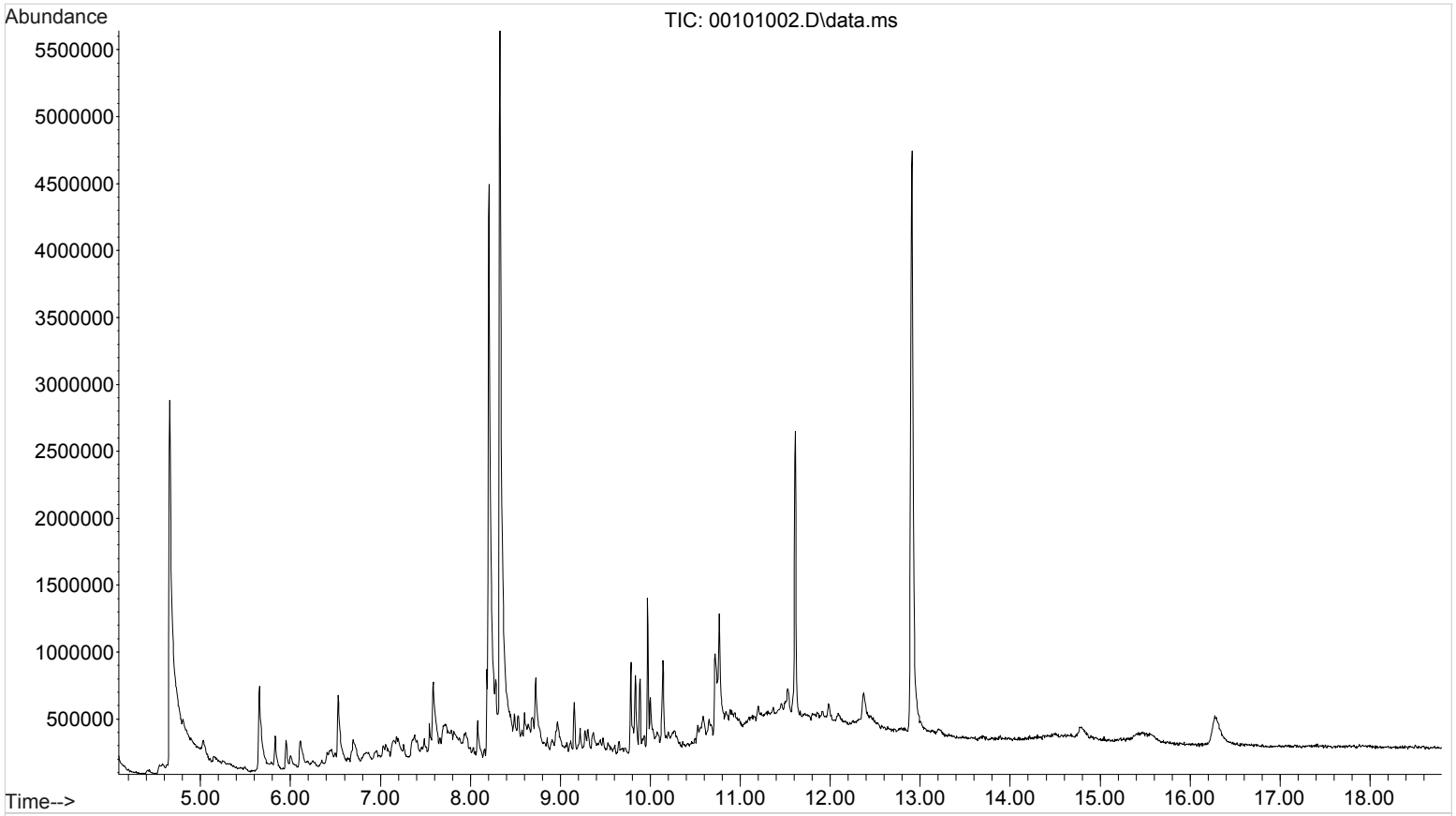
approximate concentration ~~2000~~ 1000 ng/ml

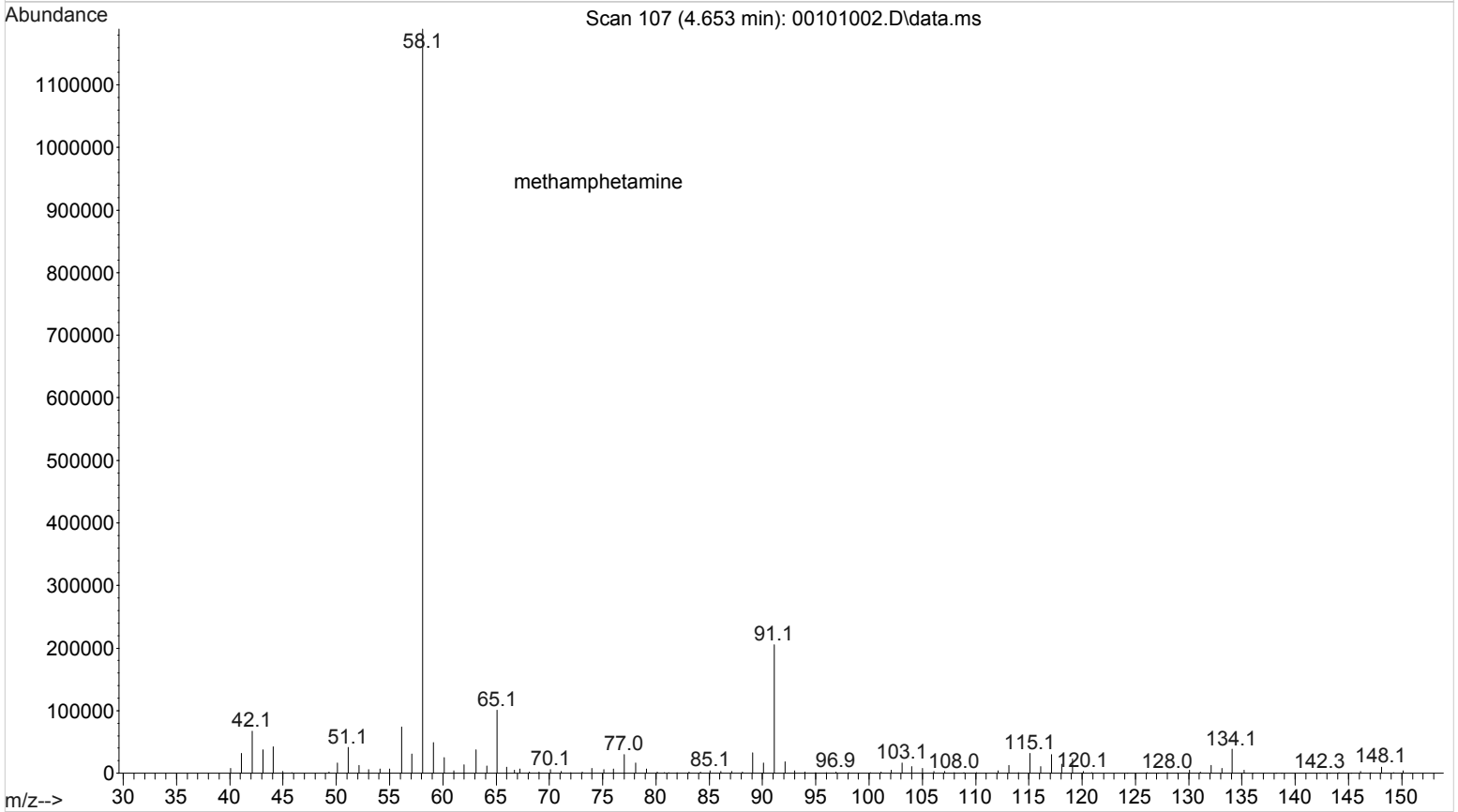
File :D:\DATA\2020\am 2\100120 am2\00201001.D
Operator : Instrument 65198
Acquired : 01 Oct 2020 11:40 using AcqMethod TOXI-A 10115.M
Instrument : Instrument 65198 GCMS CdA
Sample Name: negative control
Misc Info : am 2
Vial Number: 2





File :D:\DATA\2020\am 2\100120 am2\00101002.D
Operator : Instrument 65198
Acquired : 01 Oct 2020 12:02 using AcqMethod TOXI-A 10115.M
Instrument : Instrument 65198 GCMS CdA
Sample Name: positive control
Misc Info : am 2
Vial Number: 1





File :D:\DATA\2020\am 2\100120 am2\00101002.D
Operator : Instrument 65198
Acquired : 01 Oct 2020 12:02 using AcqMethod TOXI-A 10115.M
Instrument : Instrument 65198 GCMS CdA
Sample Name: positive control
Misc Info : am 2
Vial Number: 1