



Quality Issue Final Report

2022-QI-0024

Section: **Toxicology**

Associated: 203

Initiated: 12/9/2022

TargetDate: 2/8/2023

Associated II: 224

External: ☒

Completed: 2/27/2023

Opener: ,

Class: Class II

CAR?: Yes

DR Number(s):

Description: Non-conformance found during ANAB re-assessment audit.

7.2.1.1 ISO/IEC 17025:2017 - Does the laboratory use appropriate methods and procedures for all laboratory activities and, where appropriate, for evaluation of the measurement uncertainty as well as statistical techniques for analysis of data?

Finding: In Toxicology three methods used are not appropriate. TOX-SOP-29 and TOX-SOP-30 were used for the confirmation of Carboxy-THC in urine by GC-MS use reagents that have been demonstrated to convert Carboxy-CBD to Carboxy-THC. These particular methods are not specific for the drug(s) reported. TOX-SOP-22 used for the confirmation of GHB in blood and urine does not account for the salt form of the drug in the CRMs used for the standard preparation.

Criteria:

Notes: Date Comments

12/8/2022 Assessment Completed. Non Conformance Issued:

7.2.1.1 ISO/IEC 17025:2017 - Does the laboratory use appropriate methods and procedures for all laboratory activities and, where appropriate, for evaluation of the measurement uncertainty as well as statistical techniques for analysis of data?

Finding: In Toxicology three methods used are not appropriate. TOX-SOP-29 and TOX-SOP-30 were used for the confirmation of Carboxy-THC in urine by GC-MS use reagents that have been demonstrated to convert Carboxy-CBD to Carboxy-THC. These particular methods are not specific for the drug(s) reported. TOX-SOP-22 used for the confirmation of GHB in blood and urine does not account for the salt form of the drug in the CRMs used for the standard preparation.

ROOT CAUSE, EXTENT, and CAP:

Part 1) RE: TOX-SOP-29 and 30 (Carboxy-THC confirmation)

ROOT CAUSE:

Staff reviewed literature and evaluated applicability of current methods as fit for purpose using CBD, CBN and CBG but did not test using carboxy-CBD metabolite.

EXTENT:

Potentially all casework using current SOPs. To be evaluated during CAP.

CORRECTIVE ACTION PLAN:

Cease new casework pending completion of risk assessment for continued use of method by analysis of standard. Standard is ordered, timeline dependent on receipt, but a target date of 2/8/23 set.

Using a standard of 7-COOH-CBD (CRM standard from Cerilliant has been ordered) to evaluate current method and potential for conversion of Carboxy-CBD to Carboxy-THC including:

Analyze unextracted with current derivatization

Analyze extracted both L/L and SPE sample prep methods (TOX-SOP-29 and TOX-SOP-30)

Using data, evaluate potential for conversion of 7-COOH-CBD with current procedures and determine impact to reported casework.

Replace current methods (currently underway) by updating method from GC/MS to GC/MS-



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QQQ instrument with BSTFA derivatization (similar to current Blood THC/Cannabinoid method TOX-SOP-38): Note, the method development plan was completed and approved 6/29/21

Use the new method to reanalyze prior reported casework as determined during evaluation phase. Communicate with customers as applicable

Part 2) TOX-SOP-22 (GHB analysis)

ROOT CAUSE:

Impact of salt form on calculations was not evaluated by staff. Prior reported values in proficiency tests were within expected ranges and did not provide an alert to evaluate.

EXTENT:

Limited to 1 reported case in prior 4 years. This case was evaluated and determined to have a concentration of nearly 5 times the cut off limit and no risk present of a false positive due to the standard preparation.

CORRECTIVE ACTION PLAN:

Update TOX-SOP-22 and reanalyze prior proficiency test sample with new prepared stock. Evaluate against prior reported results and CAP manufacturer information. No reanalysis of prior work required. Target date of 2/8/23.

1/2/2023 Plan approved by ANAB



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2/1/2023 CAP update received from TOX Supv Gallegos.

For:

TOX-SOP-29 Protocol for 11-nor-delta-9-Carboxy-THC Analysis in Urine by L/L
TOX-SOP-30 Protocol for 11-nor-delta-9-Carboxy-THC Analysis in Urine by SPE

-Ordered and received 7-COOH-CBD 1 mg/mL standard from Cerilliant (C-181-1ML)

-Analyzed standard using methods TOX-SOP-29 and TOX-SOP-30, Found both demonstrated the potential for conversion (equivalent to approximately 26%-64%)

-Evaluated potential impact to casework - determined to be low risk due to the specificity of immunoassay analysis, specifically Siemens EMIT II Plus for COOH-THC, which has been demonstrated to have no cross-reactivity to 7-COOH-CBD. 97% of cases were greater than twice the screening cutoff and required additional screening dilutions for COOH-THC, which are routinely performed to assist with determining dilutions for confirmation.

-Retired TOX-SOP-29 Liquid/Liquid extraction.

-Completed method development and validation to update Urine COOH-THC analysis from GC/MS to GC/MS-QQQ instrument with BSTFA derivatization (similar to current Blood THC/Cannabinoid method TOX-SOP-38). Signed off 2/1/23 – this method demonstrates no conversion of 7-COOH-CBD to COOH-THC.

-Updated TOX-SOP-30 SPE extraction (Revision 15, effective 2/1/23)

-Customer notification meetings held with both City of Phoenix Prosecutor's Office (1/11/23) and Maricopa County Attorney's Office (1/20/23). Reanalysis pending review of reports by customers and impact.

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For TOX-SOP-22 Protocol for the Analysis of GHB in Blood and Urine

- Reanalyzed previous CAP PT samples 2019-0060 FTC-04 and 2022-0117 FTC-10. Compared results using old and new stocks. Determined results were similar compared to each other and target concentrations, indicating the update to the preparation did not make a significant difference in the overall results obtained.

- Note for 2019-0060 FTC-04 GHB positive (qualitative), the PT result submitted to CAP in 2019 shows result of 49 µg/mL from screening and 50 µg/mL from confirmation, CAP target value was 50 ng/mL demonstrating no observed influence.

- One case present in prior 4 years and no risk present in result. No reanalysis of prior work required

- 1/10/23 Updated preparations to account for sodium salt: GHB calibrator stock, GHB internal standard, positive control stock solutions in TOX-SOP-22 (Revision 16)

2/1/2023 Carboxy-THC validation completed and approved. TOX-SOP-30 revised and method released for use.

2/27/2023 Notification received from ANAB that Re-assessment has satisfactorily concluded.

Remediation complete.



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Analyst (if applicable)

Cand Heller A4710

Date

03/07/2023

Supervisor or Technical Lead (if applicable)

Date

Benjamin Swankholm A5133

3/9/2023

Assistant Administrator

Date

Kelley Merwin A3632

03/07/2023

Assistant Quality Manager

Date

John Knell

03/07/2023

Quality Manager

Date

John Knell Acting

03/13/2023

Lab Administrator

Date



Phoenix Police Department Laboratory Services Bureau

2022 - 17025T - Reassessment

Prepared by Lynn Langford

Data collected on 2022-12-05

ANSI National Accreditation Board

United States

2022-QI-0024

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Description

This assessment report summarizes the outcome of the recent accreditation activity. A separate document, the assessment plan, provides information on the type of activity (*e.g.*, reassessment, surveillance activity, scope extension), the date(s) of the activity, the assessment team members, the requirement documents and the scope by discipline that was assessed for each location. The assessment plan, together with this report, provides a complete picture of the accreditation activity.

The ANSI National Accreditation Board (ANAB) evaluated the competence of the forensic service provider and conformance with all applicable accreditation requirements for the scope of accreditation listed in the assessment plan. Objective evidence of implementation was assessed. The results of an assessment activity are based on a sample of records, locations, and personnel that were available at the time of the activity. Witnessing is an additional technique used in on-site activities.

REQUIREMENTS:

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories & ANAB ISO/IEC 17025:2017 Forensic Science Testing and Calibration Laboratories Accreditation Requirements (AR 3125) evaluated over the accreditation cycle are summarized in the following broad categories:

General requirements related to the forensic service provider's commitment to impartiality and confidentiality in its activities.

Structural requirements related to the range of activities, management structure, the authority, roles and responsibilities of personnel. Documented procedures which ensure a consistent application of activities and the validity of results.

Resource requirements related to the impartiality of personnel. Requirements for a training program, competency testing, authorizations and ongoing monitoring to ensure the competence of personnel. Facility and security suitability for activities. Records and procedures for equipment to ensure proper functioning and where applicable, establishment of metrological traceability. Requirements for externally provided products and services.

Process requirements related to the handling of test and calibration items in a manner to maintain the integrity of the item. Requirements for chain-of-custody of items to be tested and appropriate methods and procedures. Ensuring the required performance of the methods along with monitoring the validity of the results. Requirements to ensure results are supported by sufficient technical records and are reported accurately, clearly, unambiguously and objectively. Procedures for nonconforming work and a documented process for handling complaints. Requirements related to the laboratory information management system protection and integrity of data and information.

Management system requirements related to policies and objectives appropriate for the scope of activities. Requirements to control internal and external documents and records. Requirements to address risks and opportunities and timely, well-documented corrective actions. Requirements for an internal audit program and management reviews.

The accreditation activity also evaluates forensic science provider's conformance with their own management system requirements.

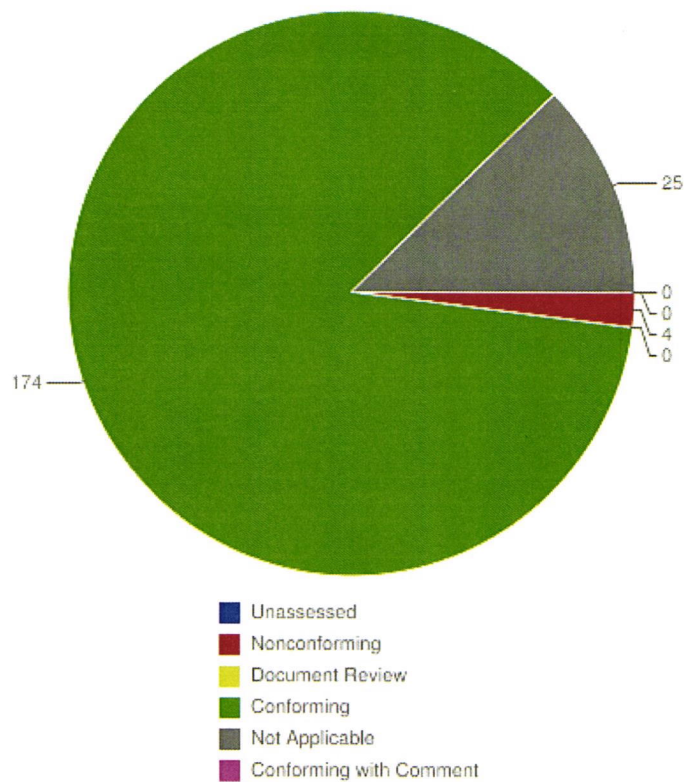
ASSESSMENT RESULT:

Based on the assessment techniques and sampling reviewed during the assessment activity, the assessment team found that the forensic service provider demonstrated competence to operate a management system that fulfills all applicable accreditation requirements, including those specified within their management system.

Any comments (opportunities for improvement) or nonconformities identified during this assessment activity are noted below. All nonconformities will be resolved prior to an accreditation decision by ANAB and a summary provided in a subsequent assessment activity report.

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Summary of Comments



Audit Comments

7.2.1 Selection and verification of methods

7.2.1.1 ISO/IEC 17025:2017

Nonconforming

Requirement

Does the laboratory use appropriate methods and procedures for all laboratory activities and, where appropriate, for evaluation of the measurement uncertainty as well as statistical techniques for analysis of data?

NOTE "Method" as used in this document can be considered synonymous with the term "measurement procedure" as defined in ISO/IEC Guide 99.

Nonconformity Resolution Workflow

In Toxicology three methods used are not appropriate. TOX-SOP-29 and TOX-SOP-30 were used for the confirmation of Carboxy-THC in urine by GC-MS use reagents that have been demonstrated to convert Carboxy-CBD to Carboxy-THC. These particular methods are not specific for the drug(s) reported. TOX-SOP-22 used for the confirmation of GHB in blood and urine does not account for the salt form of the drug in the CRMs used for the standard preparation creating a bias for the test results.

Due Date & Responsible Party : Lynn Langford until 2023-02-08 (Nonconformity Resolution Workflow not completed)

7.7 Ensuring the validity of results

7.7.4 ANAB Accreditation Requirement

Nonconforming

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Requirement

Is the performance of personnel monitored? Does monitoring ensure that all personnel who perform testing or calibration successfully complete at least one intralaboratory comparison, interlaboratory comparison or proficiency test per calendar year in each discipline on the scope of accreditation in which the individual conducts work? In the event that the preceding options are not available or appropriate, observation-based performance monitoring is acceptable.

ANAB NOTE 1 The monitoring should be varied over time to cover all aspects of assigned job functions but does not have to include all aspects of the work performed each time.

ANAB NOTE 2 Solely performing verifications (7.7.1.g).1) or solely reviewing and authorizing results (7.8.1.1) are considered to be testing or calibration and are subject to these requirements.

ANAB NOTE 3 Accreditation occurs in the discipline of Toxicology in both Calibration and Testing. The above requirements apply to the Testing scope of accreditation and Calibration scope of accreditation separately.

ANAB NOTE 4 For performance monitoring conducted at the end of one calendar year, evaluation of successful completion can occur in the subsequent calendar year.

Nonconformity Resolution Workflow

For the 2021 calendar year, one analyst did not perform a proficiency test in the Fire Debris discipline in which he conducts work and another analyst did not perform a proficiency test in the Materials (Trace) discipline in which he conducts work.

Due Date & Responsible Party : Lynn Langford until 2023-02-08 (Nonconformity Resolution Workflow not completed)

7.8.1 General

7.8.1.2.2 ANAB Accreditation Requirement

Nonconforming

Requirement

Is there a procedure for reporting of results that:

- a) identifies what will be reported for all items received, including items on which no work was performed, items collected or created and preserved for future testing, and for partial work performed?
- b) requires qualifying the significance of associations in the report whether by a statistic or a qualitative statement?
- c) requires communicating the reason(s) in the report when the reported results are inconclusive? and
- d) requires reporting of the initial database entry (e.g., DNA profiles, friction ridge, ballistics, biometrics)?

ANAB NOTE b) Associations for multiple results may be qualified by a single statistic or qualitative statement if the statistics are identical or, where applicable, meet or exceed a defined minimum threshold.

Nonconformity Resolution Workflow

Inconclusive results reported in the Fire Debris discipline do not communicate the reason the results are inconclusive.

Due Date & Responsible Party : Lynn Langford until 2023-02-08 (Nonconformity Resolution Workflow not completed)

7.8.3 Specific requirements for test reports

7.8.3.1.c).1 ANAB Accreditation Requirement

Nonconforming

Requirement

Was/Did the measurement uncertainty:

- a) included in the report or an annex to the report when it impacts the evaluation of a specification limit stated by a regulatory body, a statute, case law, or other legal requirement?
- b) include the measured quantity value, y , along with the associated expanded uncertainty, U , and the coverage probability?
- c) in the format of $y \pm U$?
- d) limited to at most two significant digits, unless there is a documented rationale for reporting additional significant digits? and
- e) reported to the same level of significance (i.e., same number of decimal places or digits) as the measurement result?

ANAB NOTE 1 a) A legal requirement is created, imposed, and enforced by a third-party external to the laboratory agency.

ANAB NOTE 2 c) For asymmetrical uncertainties, it may be inappropriate to quote a single result for the uncertainty and presentations other than $y \pm U$ may be needed.

ANAB NOTE 3 e) Reducing or simplifying a fraction is not a change in level of significance.

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Nonconformity Resolution Workflow

B). In Toxicology, the reported measurement uncertainty for ethanol results does not use the associated expanded uncertainty, rather an administratively set expanded uncertainty is reported. The coverage probability is also incorrectly referred to as a "level of confidence" on the report and is described as being greater than the coverage probability used for the expanded uncertainty.

Due Date & Responsible Party : Lynn Langford until 2023-02-08 (Nonconformity Resolution Workflow not completed)

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Kelley A Merwin

From: Amanda B Gallegos
Sent: Tuesday, February 28, 2023 7:45 AM
To: John E Knell; Kelley A Merwin
Cc: Benjamin S Swanholm
Subject: documentation for 2022-QI-0024
Attachments: 2022-QI-0024 packet GHB.pdf; 2022-QI-0024 packet Urine COOH-THC.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

Please see attached for some documentation that may be applicable to include in the packet for 2022-QI-0024, please use as you see fit and also let me know if there is any additional documentation that you think needs to be included so I can work on getting that to you, thanks!

There are two separate areas that were addressed in this one finding so I have attached one PDF for the GHB method (TOX-SOP-22) and one PDF for the UTHC methods (TOX-SOP-29 and TOX-SOP-30):

TOX-SOP-22 GHB

- 1/10/23 TOX-SOP-22 Revision 16 effective 1/10/23 with preparations accounting for salt form of standards for calibrator stock, quality control stock, and internal standard
- Summary of the analysis of two previously received proficiency samples comparing the old preparation and new preparation of the GHB calibration stock (*chromatograms/printouts of the data available if needed*)
- 1/20/23 Email to MCAO following up from meeting to provide specific IR# for only case positive for GHB

TOX-SOP-29 and THC-SOP-30 UTHC-COOH

- 2/6/23 Documents provided to MCAO and CPO via email: Summary of finding related to UTHC-COOH methods (page 1), list of IR#s for urine samples reported as THC-COOH positive 2019-2022 (pages 2-11), Email to MCAO and CPO (page 12)
- TOX-SOP-30 Revision 15 effective 2/1/23 re-validated SPE method with BSFTA derivatization and analysis on GC/MS-QQQ instrumentation (pages 13-16)
- TOX-SOP-29 retired as of 1/25/23 (Qualtrax notification) (page 17)
- Validation documentation (pages 18-36)
- Data from analysis showing potential for CBD-COOH to THC-COOH conversion on old methods (pages 37-55)
- List of IR#s with additional information about the cases such as the EMIT screening results and dilution factors, also color coded by offense type (pages 56-66)

Amanda Gallegos, M.S., D-ABFT-FT

Forensic Science Section Supervisor, Toxicology Section
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LABORATORY SERVICES BUREAU		
Document: Toxicology Procedures	Policy Number: 1288	Revision: 16
Subject: TOX-SOP-22 Protocol for the Analysis of GHB in Blood and Urine	Approved: Gallegos, Amanda	
PHOENIX POLICE DEPARTMENT	Effective: 1/10/2023 12:10:40 PM	Page 1 of 3

1. PROTOCOL FOR THE ANALYSIS OF GHB IN BLOOD AND URINE

PURPOSE

The following method describes the preliminary screening and qualitative confirmation of gamma-hydroxybutyric acid (GHB) in blood, serum, plasma and urine using a liquid/liquid extraction analyzed by GC/MS. Samples submitted for GHB analysis will follow the following protocol.

PLAN

A. Equipment:

- (1) GC/MS with a 5% diphenylpolysiloxane, 95% dimethylpolysiloxane, 15/30 meter, 0.25 micron film thickness column
- (2) Centrifuge
- (3) Heating block
- (4) Sample concentrator with UHP Nitrogen

B. Reagents:

- (1) **Saturated ammonium chloride solution.** To 250ml of water add 50 grams of ammonium chloride. Stir until dissolved. Label reagent. Store at room temperature. Stable for two years.
- (2) **3N HCl.** To 250ml of water add 65ml of concentrated hydrochloric acid. Label reagent. Store at room temperature. Stable for two years.
- (3) **Ethyl acetate.** Prepare a 100ml transfer bottle of ACS/HPLC grade ethyl acetate. Label accordingly. Store in glass at room temperature. Stable until consumed.
- (4) **BSTFA with 1% TMCS.** Crimp cap and label appropriately if transferred. Store at room temperature. Stable until consumed.

C. Standards: (Store refrigerated)

- (1) **1 mg/ml GHB sodium salt standard** in methanol (Cerilliant G-001 or Cayman Item# 15661) Stable per manufacturer's recommendation.
- (2) **1 mg/ml D6-GHB sodium salt internal standard** in methanol (Cerilliant G-006) Stable per manufacturer's recommendation.

D. Calibrators and Internal Standard:

- (1) **100 µg/ml GHB calibrator stock solution.** In a 1.0 ml vial add 878 µl of methanol and 122 µl of 1 mg/ml GHB sodium salt standard. Store refrigerated. Stable for 2 years.
- (2) **100 µg/ml D6-GHB internal standard stock solution.** In a 10 ml vial add 7.26 ml of methanol and 1 ml of 1 mg/ml D6-GHB sodium salt internal standard. Store refrigerated. Stable for 2 years.

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LABORATORY SERVICES BUREAU

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- (3) **10 µg/ml GHB calibrator.** Prepare on day of use. Add 10 µl of 100 µg/ml GHB calibrator stock solution to 100 µl of negative urine or blood.
- (4) **25 µg/ml GHB calibrator.** Prepare on day of use. Add 25 µl of 100 µg/ml GHB calibrator stock solution to 100 µl of negative urine or blood.
- (5) **50 µg/ml GHB calibrator.** Prepare on day of use. Add 50 µl of 100 µg/ml GHB calibrator stock solution to 100 µl of negative urine or blood.
- (6) **100 µg/ml GHB calibrator.** Prepare on day of use. Add 100 µl of 100 µg/ml GHB calibrator stock solution to 100 µl of negative urine or blood.

E. Quality Controls. (Store Refrigerated)

- (1) **100 µg/ml GHB control stock solution.** In a 1.0 ml vial add 878 µl of methanol and 122 µl of 1 mg/ml GHB sodium salt standard (using a different source if possible than calibrator stock). Store refrigerated. Stable for 2 years.
- (2) **Positive Control(s) 15 µg/ml.** Add 15 µl of above 100 µg/ml GHB control stock solution to 100 µl of negative urine and/or blood (matrix matched controls).
- (3) **Negative Control(s).** Urine produced in house will be used as negative control if analyzing urine samples. Blank blood prepared in house consisting of 50% saline, 50% packed red blood cells, and 5 g sodium fluoride/1 g potassium oxalate (per 500 ml prepared blood) will be used as negative control if analyzing blood samples.

F. Extraction:

- (1) Prepare a set of calibrators, positive control(s) and pipette 100 µl of the negative control(s) as well as case samples into respectively labeled 16x100mm culture tubes. Add 50 µl of internal standard. (High GHB concentration samples from preliminary screen may be diluted, as an example x10 by adding 10 µl sample/ 90 µl deionized water.)

NOTE: Case Samples received in CITRATE BUFFERED TUBES will not be analyzed for GHB.

- (2) Add 500 µl of saturated ammonium chloride solution.
- (3) Add 20 µl of 3N HCl.
- (4) Add 2 ml of ethyl acetate.
- (5) Vortex until thoroughly mixed; centrifuge for five minutes at 3500 rpm. After tubes have been centrifuged, transfer top organic layer into appropriately labeled auto sampler vials.
- (6) Evaporate to near dryness (approximately 10µl). Reconstitute residue with 70 µl of ethyl acetate and vortex. Transfer to vial inserts if using screw cap autosampler vials.
- (7) To each of the vials or inserts add 30 µl of BSTFA (with 1% TMCS). Cap tightly and derivatize for at least 20 minutes at 70°C.

G. Data Acquisition and Analysis:

- (1) Make sure the Autotune was performed, rinse vials filled, etc.

LABORATORY SERVICES BUREAU

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(2) Set up a sequence with the calibrators injected first in order to calibrate the instrument used. The ion ratios and retention times should be set by a mid-level calibrator. Subsequent injections to include positive and negative controls and solvent blanks (for preliminary screen at beginning and end of case samples; for confirmation between case samples).

(3) Analyze using the appropriate method on GC/MS.

H. Results and Acceptability (Qualitative):

(1) Calibration $R^2 \geq 0.99$, lowest calibrator within 30% of set value and remaining calibrators within 20% of set value

(2) Positive control is positive ($\geq 10 \mu\text{g/ml}$)

(3) Negative control $< 5 \mu\text{g/ml}$

(4) Retention time within 2% as set or stored from calibrator

(5) Qualifier ion ratios within 20% as set or stored from calibrator

(6) Chromatographically acceptable; i.e. peak purity $\geq 90\%$ for target ion

(7) Positive results for GHB will be reported $\geq 10 \mu\text{g/ml}$

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GHB TOX-SOP-22						
µg/mL	Target	Grand Mean	screen	conf	OLD preparation	NEW preparation
2019-0060 FTC-04	50	<i>n/a qual</i>	49	50	52	48
2022-0117 FTC-10	75	67.69	<i>n/a</i>	<i>n/a</i>	68	63

2022-01-0024

Amanda B Gallegos

From: Amanda B Gallegos
Sent: Friday, January 20, 2023 11:47 AM
To: Ryan Green (MCAO)
Cc: Jody M Wolf
Subject: Follow-Up

Hey Ryan,

I wanted to send you a quick follow-up email with the IR# (202000000002631) for the one case in the previous 4 years that we reported a positive result for GHB (gamma-hydroxybutyrate), which was for a sample related to a DUI investigation. Just to reiterate, this result was nearly five times above our cutoff level and therefore presents no risk that the adjustment for the salt in the preparation of the standard we use in this method had any impact on the reporting of GHB in this sample.

Also, it was not mentioned in the meeting today so I wanted to let you know that our Quality Manager will be out of the office next week, so any additional follow-up we provide regarding the final ANAB report may not be until the following week.

In the meantime, please don't hesitate to reach out if you have any questions.

Amanda Gallegos, M.S., D-ABFT-FT
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The Phoenix Police Department Laboratory Services Bureau (LSB) has been accredited since 2001. Accreditation reassessments are routine accreditation activities that occur every four years as part of the accreditation process. Currently, the LSB's accrediting body is ANAB (ANSI National Accreditation Board), through which the laboratory is assessed to the ISO/IEC 17025:2017 standard and ANAB's AR3125 supplemental requirements for forensic laboratories. A reassessment occurred in December 2022 and the resulting assessment report is attached (230129-Phoenix Police Department Laboratory Services Bureau-Revised Assessment Report).

The reassessment resulted in one finding of non-conformance related to the appropriateness of the Toxicology section's confirmation methods for the analysis of 11-nor-9-carboxy-delta9-tetrahydrocannabinol (COOH-THC) in urine samples. COOH-THC is an inactive metabolite of THC that can be present in urine.

A recent study, published approximately 6 months prior to the assessment (¹May 2022), included information that reagents used in these methods have the potential to cause the conversion of 7-carboxy-cannabidiol (COOH-CBD - which is a metabolite of CBD), if present in the sample, to the target analyte COOH-THC. Therefore, based on this new information from the study, the reassessment report listed the confirmation methods used by the Toxicology section for urine samples as not being specific for the drugs(s) reported.

A Corrective Action Report (CAR), 2022-QI-0024 was initiated within the LSB to address the assessment finding. The CAR process involves determining the root cause, the extent of the non-conformity, and implementing a corrective action plan to resolve the non-conformity. At the conclusion of this process a Corrective Action Report will be available.

As part of the corrective action process a standard for COOH-CBD was purchased, and after testing with the existing urine confirmation methods, it did demonstrate the potential for conversion to the target analyte COOH-THC. A list of cases where the laboratory reported COOH-THC in urine for the previous four years (2019-2022) is being provided.

Note, during the examination of urine samples, the LSB uses a standard immunoassay method as the preliminary screen for urine drug analysis. This method included an individual assay that is specific for COOH-THC. Due to the test being specific for COOH-THC it does not exhibit cross-reactivity to COOH-CBD. Since this test is performed prior to the confirmatory test, it significantly minimizes the risk that COOH-THC was incorrectly reported in urine using the confirmation methods at our laboratory. A subset of these cases also had blood samples analyzed where the blood sample independently confirmed the presence of THC and/or metabolites.

This finding of non-conformity does not impact the Blood THC/THC Metabolite/Cannabinoid method. CBD and its metabolite have been tested using this method and no conversion occurs in this method.

An updated method has been developed and validated for the analysis of COOH-THC in urine samples (TOX-SOP-30 Revision 15, Effective 2/1/23), which demonstrates there is no conversion from COOH-CBD to the target analyte COOH-THC. All urine samples processed after 2/1/23 will utilize this method.

¹Hart ED, Vikingsson S, Mitchell JM, Winecker RE, Flegel R, Hayes ED. Conversion of 7-Carboxy-Cannabidiol (7-COOH-CBD) to 11-Nor-9-Carboxy-Tetrahydrocannabinol (THC-COOH) during Sample Preparation for GC-MS Analysis. J Anal Toxicol. 2022 May 20;46(5):573-576. doi: 10.1093/jat/bkab046. PMID: 33987675.

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Offense Type*	IR#	Req#	Blood Received	Other Drugs Detected and Reported in Urine
ACC w/ F	202200000138385	0001	YESx2-THC/COOH	
ACC w/ F	202200000977667	0001	YESx2-THC/OH/COOH, Bromazepam	Bromazepam
DUI	202100001982685	0002	Quantity Not Sufficient (QNS)	Cocaine & Metabolite, Methadone & Metabolite, Alprazolam & Metabolite
DUI	202200000020961	0001	no	Clonazepam Metabolite, Clonazepam Metabolite, Etizolam & Metabolite, Alprazolam & Metabolite, Flualprazolam & Metabolite, Methadone & Metabolite, Methorphan, Pheniramine, Citalopram, Benzoylcegonine (Cocaine Metabolite)
DUI	202200000273640	0002	no	Ethanol
DUI	202200000558875	0002	no	Etizolam & Metabolite, Flualprazolam & Metabolite, Methadone
DUI	202200001001913	0003	no	Ethanol, Cocaine & Metabolites
DUI	202200001065793	0001	no	Fentanyl & Metabolite, Methamphetamine
DUI	202200001083478	0003	YES-*no THC(Randox@5), Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam	Fentanyl, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Methadone & Metabolite
DUI	202200001190141	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Cocaine & Metabolite
DUI	202200001362871	0003	YESx2-THC/OH/COOH, Methamphetamine	Methamphetamine, Cetirizine
DUI	202200001427685	0001	no	Fentanyl & Metabolite, Methadone & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	202200001455824	0001	no	Methamphetamine, Amphetamine
DUI	202200001472467	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
ACC w/ F	202100000901947	0003	YESx3-COOH, PCP	PCP
ACC w/ F	202100001145344	0003	YESX3-COOH	
ACC w/ F	202100001169938	0001	YES-THC/OH/COOH	
ACC w/ F	202100001310662	0002	YES-THC/COOH	
ACC w/ F	202100001337711	0004	YESX2-THC/OH/COOH	
ACC w/ F	202100001714396	0002	YES-*no THC(Randox@4.7) Methamphetamine	Fentanyl, Methamphetamine, Amphetamine, Midazolam & Metabolite
ACC w/ I	202100000086516	0001	YES-THC/OH/COOH	
ACC w/ I	202100000864870	0002	YESX2-THC/OH/COOH	
ACC w/ I	202100001308597	0003	YESX2-COOH, Methamphetamine, Fentanyl & Metabolite, Midazolam	Fentanyl, Methamphetamine, Amphetamine, Midazolam & Metabolite, Propofol, Alprazolam Metabolite
DUI	202000002021925	0001	no	Methamphetamine, Amphetamine
DUI	202000002091797	0001	no	Fentanyl & Metabolite, Tramadol & Metabolite, Clonazepam
DUI	202000002092432	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000059063	0001	QNS	Methamphetamine, Amphetamine, Methadone, Morphine, Codeine, Alprazolam & Metabolite, Clonazepam Metabolite
DUI	202100000111528	0001	no	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	202100000168790	0001	no	Methadone & Metabolite, Alprazolam & Metabolite
DUI	202100000238567	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000283605	0001	no	Methamphetamine, Amphetamine, Alprazolam
DUI	202100000339913	0002	no	
DUI	202100000729666	0001	no	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam & Metabolite
DUI	202100000749199	0003	YES-COOH, Fentanyl & Metabolite, Methamphetamine, Amphetamine	Fentanyl, Methamphetamine, Amphetamine, Morphine
DUI	202100000763759	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000795100	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoylcegonine (Cocaine Metabolite)
DUI	202100000847229	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methadone & Metabolite
DUI	202100000882810	0001	no	Methamphetamine, Amphetamine, Gabapentin, Bupropion, Methadone & Metabolite, Alprazolam & Metabolite, Benzoylcegonine (Cocaine Metabolite)
DUI	202100000890235	0001	no	Fentanyl, Methadone & Metabolite, Clonazepam Metabolite
DUI	202100000925398	0001	no	Methamphetamine, Amphetamine, Methadone & Metabolite, Alprazolam & Metabolite, Lorazepam, Cocaine & Metabolite
DUI	202100000940671	0004	QNS	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000943672	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Morphine
DUI	202100001037588	0001	no	Fentanyl & Metabolite
DUI	202100001465143	0001	no	Fentanyl, Methamphetamine, Amphetamine
DUI	202100001481260	0002	YES-0.124, THC/COOH, Tramadol	Tramadol & Metabolite, Gabapentin, Venlafaxine
DUI	202100001663088	0002	YESx2-<0.025, THC/OH/COOH	
DUI	202100001715914	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine

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DUI	202100001729559	0001	no	Fentanyl, Nordiazepam, Oxazepam, Temazepam, Trazodone & Metabolite, Diphenhydramine
DUI	202100001943888	0003	YES-THC/COOH, DFE	DFE
ACC w/ F	202000001482327	0001	YES-COOH, Fentanyl & Metabolite	*(only A/B testing for Fentanyl at this time)
ACC w/ I	202000000888565	0001	YES-COOH, Fentanyl & Metabolite, Cocaine & Metabolite, Midazolam	Fentanyl & Metabolite, Methamphetamine, Amphetamine, MDMA, Cocaine & Metabolite, Ketamine & Metabolite, Tramadol
DUI	201900001907568	0001	YES-THC/OH/COOH/CBD, DFE, Alprazolam	DFE, Alprazolam & Metabolite
DUI	201900001904755	0002	no	Methamphetamine, Amphetamine, Oxazepam, Temazepam, Alprazolam & Metabolite
DUI	201900002035314	0003	no	Ethanol
DUI	201900002071047	0001	no	Methamphetamine, Amphetamine
DUI	201900002207193	0001	YES-0.059, THC/OH/COOH, Cocaine & Metabolites	Cocaine & Metabolites
DUI	201900002245569	0001	no	Cocaine & Metabolite, Methadone & Metabolite
DUI	20200000203472	0001	no	Morphine, Lorazepam, Diphenhydramine, Cetirizine
DUI	20200000244200	0002	YES-0.139, THC/OH/COOH, Fentanyl & Metabolite	Fentanyl Metabolite, Diphenhydramine, Citalopram
DUI	20200000480603	0001	no	Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	20200000550027	0001	no	Methamphetamine, Amphetamine, Morphine
DUI	20200000587315	0002	YES-*no THC(Randox@3), Methamphetamine, Amphetamine	Methamphetamine, Amphetamine
DUI	20200000595637	0001	no	Tramadol
DUI	20200000621204	0002	QNS	Ethanol
DUI	20200000695922	0001	no	Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	20200000783000	0002	QNS	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Morphine, Codeine
DUI	20200000809642	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine
DUI	20200000823895	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine, Codeine, Hydromorphone, Oxazepam, Gabapentin, Cetirizine
DUI	20200000972779	0001	no	Fentanyl & Metabolite, Alprazolam & Metabolite
DUI	202000001023366	0003	YES-*no THC(Randox@9), Methamphetamine, Amphetamine, Morphine	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	202000001059624	0002	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	202000001070961	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Morphine, Benzoyllecgonine (Cocaine Metabolite)
DUI	202000001135790	0001	no	Methamphetamine, Amphetamine, Venlafaxine
DUI	202000001185998	0002	QNS	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine
DUI	202000001236476	0002	YES-THC/OH/COOH/CBD, Alprazolam	Alprazolam & Metabolite
DUI	202000001258707	0001	no	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam Metabolite
DUI	202000001263041	0001	no	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam, Fentanyl Metabolite
DUI	202000001302181	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Gabapentin
DUI	202000001369127	0003	YES-THC/OH/COOH, DFE	DFE
DUI	202000001404813	0001	no	6-Acetylmorphine (Heroin Metabolite), Morphine, Cocaine & Metabolite, Diphenhydramine, Methadone, Quetiapine Metabolite, Alprazolam & Metabolite
DUI	202000001485120	0001	no	Diphenhydramine
DUI	202000001592386	0002	YES-THC/OH/COOH, Fentanyl & Metabolite	Fentanyl & Metabolite, Methamphetamine, Amphetamine,
DUI	202000001605138	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoyllecgonine (Cocaine Metabolite)
DUI	202000001632407	0002	QNSx2	Flubromazolam
DUI	202000001772258	0001	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	202000001775797	0003	no	Fentanyl & Metabolite, Benzoyllecgonine (Cocaine Metabolite)
DUI	202000001777710	0003	YES>(*no THC Randox@9.45), DFE	DFE
DUI	202000001914164	0001	no	Amphetamine, Lorazepam, Gabapentin
DUI	202000001937161	0001	no	Methamphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	202000001974912	0001	no	Methadone & Metabolite

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DUI	201900001258161	0001	no	Cocaine & Metabolite, Alprazolam & Metabolite, Methadone & Metabolite, Sertraline & Metabolite, Fentanyl, Trazodone
DUI	201800002208257	0002	YES-THC/COOH, Morphine	6-Monoacetylmorphine (Heroin Metabolite), Morphine, Oxycodone
DUI	201900000014939	0001	no	6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, AB-FUBINANA Metabolite, 4-cyano CUMYL-BUTINACA
DUI	201900000167178	0002	YESx2-THC/OH/COOH	
DUI	201900000254181	0002	YES-THC/OH/COOH, Methamphetamine, Amphetamine	Methamphetamine, Amphetamine
DUI	201900000384722	0003	YES 0.040-COOH, Methamphetamine, Fentanyl, Norfentanyl	Methamphetamine, Amphetamine, Fentanyl
DUI	201900000421723	0003	no	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Mirtazapine, Clonazepam Metabolite
DUI	201900000773682	0002	YES-THC/COOH, Alprazolam	Alprazolam & Metabolite
DUI	201900000936852	0001	no	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Methadone & Metabolite, Hydromorphone
DUI	201900001252392	0002	YES-COOH, Methadone, Alprazolam & Metabolite	Methadone & Metabolite, Alprazolam & Metabolite
DUI	201900001311329	0002	no	Methamphetamine, Amphetamine, Fentanyl, Morphine
DUI	201900001395215	0002	YES-THC/COOH, Methamphetamine, Amphetamine, Morphine	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Fentanyl, Benzoylcegonine (Cocaine Metabolite)
DUI	201900001450745	0002	QNS	Topiramate, Cetirizine
DUI	201900001483490	0001	no	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Methadone & Metabolite, Fentanyl, Alprazolam & Metabolite
DUI	201900001613563	0001	no	Benzoylcegonine (Cocaine Metabolite), Hydrocodone, Oxycodone, Nordiazepam, Oxazepam, Temazepam, Alprazolam & Metabolite
DUI	201900001670357	0001	no	Methamphetamine, Amphetamine
DUI	201900001705774	0001	no	Fentanyl, Alprazolam & Metabolite, Citalopram
DUI	201900001760680	0001	no	Fentanyl, Gabapentin
DUI	201900001844389	0001	no	Methamphetamine, Benzoylcegonine (Cocaine Metabolite), Morphine, Nordiazepam, Oxazepam, Temazepam
DUI	201900001878496	0001	no	

*Offense type in LIMS entered as a default of DUI at time of data entry but may not have information regarding specifics such as collisions, injuries, hit and run, etc.

Offense Type*	IR#	Req#	Blood Received	Other Drugs Detected and Reported in Urine
Homicide	202200000369402	0008	no	Diphenhydramine
Homicide	202200001109983	0010	no	PCP, Methamphetamine
Homicide	202200001218177	0005	YES-THC/COOH, Propofol, Fentanyl, Ketamine & Metabolite	Propofol, Ketamine & Metabolite
Ag Assault	202100001233371	0002	YES-COOH, Methamphetamine	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoyllecgonine (Cocaine Metabolite), Risperidone & Metabolite
Child Abuse	202100000992072	0011	no	Fentanyl & Metabolite, Methamphetamine, Amphetamine
Child Abuse	202100001838662	0004	YES-THC/COOH, Fentanyl & Metabolite	Fentanyl & Metabolite
Child Abuse	202100001940352	0002	no	Benzoyllecgonine (Cocaine Metabolite)
Homicide	201900001035747	0002	no	Ethanol, Methamphetamine, Amphetamine
Ag Assault	201900001595452	0002	YES-but only tested for alcohol 0.000	Benzoyllecgonine (Cocaine Metabolite)

*Offense type in LIMS entered based on information at time of evidence receipt/data entry

*Note: Urine is the preferred specimen for drug analysis in Drug-Facilitated Sexual Assault cases, if a blood sample was received it would have only been tested for alcohol provided the sample was collected within 24 hours. If there was a blood sample received AND alcohol was detected result is listed here:

Offense Type*	IR#	Req#	Other Drugs Detected and Reported in Urine
DFSA	202200001452996	0001	Diphenhydramine
DFSA	202100001815284	0003	Methamphetamine, Amphetamine, Fentanyl, Diphenhydramine
DFSA	202100001940337	0003	
DFSA	202100001971285	0003	Fentanyl, Morphine, Gabapentin, Fluoxetine, Cetirizine
DFSA	202100001978858	0003	
DFSA	202100001996552	0004	
DFSA	202100002000403	0003	
DFSA	202100002018777	0003	Methamphetamine, Amphetamine, Fentanyl Metabolite
DFSA	202100002018807	0001	Methamphetamine, Amphetamine, Cocaine Metabolite, Alprazolam & Metabolite
DFSA	202200000055132	0006	Amphetamine, Citalopram & Metabolite
DFSA	202200000107932	0001	
DFSA	202200000133731	0001	Amphetamine, Topiramate, Citalopram & Metabolite
DFSA	202200000189585	0003	
DFSA	202200000204589	0001	Phentermine
DFSA	202200000208668	0006	Fentanyl & Metabolite, Methamphetamine, Amphetamine,
DFSA	202200000211755	0004	
DFSA	202200000211755	0005	
DFSA	202200000214865	0009	Ethanol
DFSA	202200000277656	0003	
DFSA	202200000292362	0001	Benzoyllecgonine (Cocaine Metabolite)
DFSA	202200000381068	0003	Ethanol, Methamphetamine, Fentanyl, Cetirizine
DFSA	202200000468561	0003	Gabapentin, Hydromorphone Metabolite, Hydrocodone, Dihydrocodeine, Diphenhydramine, Quetiapine Metabolite
DFSA	202200000470670	0003	
DFSA	202200000474629	0003	Methamphetamine, Amphetamine
DFSA	202200000495025	0003	
DFSA	202200000497532	0003	
DFSA	202200000555420	0006	
DFSA	202200000561239	0003	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methadone & Metabolite
DFSA	202200000581871	0001	Zolpidem, Cetirizine
DFSA	202200000584789	0001	Benzoyllecgonine (Cocaine Metabolite)
DFSA	202200000586804	0001	Methamphetamine, Amphetamine, Fentanyl
DFSA	202200000614612	0003	Ethanol, Lorazepam, Sertraline & Metabolite
DFSA	202200000619201	0001	
DFSA	202200000655382	0003	Propofol, Midazolam Metabolite
DFSA	202200000676372	0006	Methamphetamine, Amphetamine
DFSA	202200000695803	0001	Clonazepam Metabolite
DFSA	202200000702519	0004	Lamotrigine
DFSA	202200000707052	0004	
DFSA	202200000721357	0003	
DFSA	202200000722921	0001	
DFSA	202200000727251	0003	Levetiracetam
DFSA	202200000729219	0001	
DFSA	202200000729222	0003	
DFSA	202200000776516	0006	
DFSA	202200000804606	0006	Ethanol
DFSA	202200000827862	0003	
DFSA	202200000893525	0003	Bupropion, Sertraline, Cetirizine, Norchlorcyclizine
DFSA	202200000913959	0005	
DFSA	202200000925045	0003	
DFSA	202200000940628	0003	Ethanol, Methorphan, Doxylamine, Cetirizine, Diphenhydramine
DFSA	202200000962887	0001	Cocaine Metabolite, Methadone & Metabolite
DFSA	202200000983172	0002	Methamphetamine, Amphetamine
DFSA	202200001016107	0003	Methamphetamine, Amphetamine
DFSA	202200001024807	0003	Oxycodone, Oxymorphone Metabolite
DFSA	202200001037288	0003	Benzoyllecgonine (Cocaine Metabolite)
DFSA	202200001055903	0003	Methamphetamine, Amphetamine
DFSA	202200001084275	0003	Ethanol, Benzoyllecgonine (Cocaine Metabolite)
DFSA	202200001107490	0004	Diphenhydramine
DFSA	202200001122297	0001	

BAC: 0.129

BAC: 0.133

BAC: Detected <0.025

DFSA	202200001173317	0003	Methamphetamine, Amphetamine	
DFSA	202200001181031	0002	Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202200001260767	0001		
DFSA	202200001289719	0001	Methamphetamine, Amphetamine	
DFSA	202200001291975	0003	Nordiazepam, Oxazepam, Temazepam, Fluoxetine	
DFSA	202200001322749	0001	Propofol	
DFSA	202200001331353	0003	MDMA, MDA, Amphetamine, Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202200001346360	0001	Cocaine & Metabolite	
DFSA	202200001352899	0003	Methamphetamine, Amphetamine	
DFSA	202200001354211	0004	Ethanol	
DFSA	202200001372299	0008		
DFSA	202200001400580	0003	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methorphan	
DFSA	202200001413935	0001	Methamphetamine, Amphetamine	
DFSA	202200001438613	0003	Methamphetamine, Amphetamine	
DFSA	202200001445285	0003	Ethanol, Fentanyl & Metabolite, Methamphetamine, Amphetamine, Cocaine & Metabolites	
DFSA	202200001454005	0004	Amphetamine, Lamotrigine	
DFSA	202200001523196	0003	Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202200001529017	0001	Benzoyllecgonine (Cocaine Metabolite), Bromazepam, Clonazepam Metabolite	
DFSA	202000002081445	0003	Methamphetamine, Amphetamine, Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202000002113949	0003	Methamphetamine, Amphetamine	
DFSA	202000002116754	0002		
DFSA	202000002117614	0003		BAC: 0.041
DFSA	202100000013925	0002		
DFSA	202100000043068	0003		
DFSA	202100000054476	0001	Alprazolam & Metabolite, Tramadol & Metabolite	
DFSA	202100000062473	0003	Methamphetamine, Amphetamine	
DFSA	202100000067662	0003		
DFSA	202100000104036	0003	Alprazolam & Metabolite	
DFSA	202100000112271	0003	Methamphetamine, Amphetamine	
DFSA	202100000117888	0003		BAC: 0.167
DFSA	202100000164030	0003	Methamphetamine, Amphetamine, Fentanyl, 6-Monoacetylmorphine/Heroin metabolite, Morphine, Olanzapine	
DFSA	202100000164259	0003		
DFSA	202100000174138	0003	Methamphetamine, Amphetamine	
DFSA	202100000189599	0003	Methamphetamine, Amphetamine, Citalopram	
DFSA	202100000194220	0003	Methamphetamine, Lorazepam	
DFSA	202100000194284	0003		
DFSA	202100000211568	0002	Levetiracetam	
DFSA	202100000221639	0001		
DFSA	202100000250563	0008		
DFSA	202100000288979	0003		
DFSA	202100000302454	0004	Methamphetamine, Amphetamine	
DFSA	202100000361087	0003	Methamphetamine, Amphetamine, Fentanyl	
DFSA	202100000417719	0005	Ethanol, Cocaine & Metabolite	
DFSA	202100000447510	0004		
DFSA	202100000450740	0003	Ethanol, Cetirizine	
DFSA	202100000461381	0005		
DFSA	202100000501607	0003		
DFSA	202100000530294	0001		
DFSA	202100000531826	0001		
DFSA	202100000581678	0003	Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202100000584629	0003	Methamphetamine, Amphetamine	BAC: 0.111
DFSA	202100000594426	0003		
DFSA	202100000596389	0004	Phentermine	BAC: 0.125
DFSA	202100000628208	0007		
DFSA	202100000646155	0002		
DFSA	202100000649024	0003	Methamphetamine, Benzoyllecgonine (Cocaine Metabolite), Alprazolam & Metabolite	
DFSA	202100000717178	0003		
DFSA	202100000732422	0003		BAC: 0.029
DFSA	202100000769637	0003	Ethanol, Methamphetamine	
DFSA	202100000801020	0003		
DFSA	202100000812437	0003		
DFSA	202100000833691	0003		
DFSA	202100000843278	0004	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl	
DFSA	202100000853259	0003		
DFSA	202100000868117	0003		
DFSA	202100000872660	0003	Trazodone, Citalopram, Cetirizine	

DFSA	202100000874313	0003	Cetirizine	
DFSA	202100000892653	0002	Methamphetamine, Amphetamine	
DFSA	202100000907114	0003		
DFSA	202100000911180	0003		
DFSA	202100000919695	0003	Citalopram	BAC: 0.104
DFSA	202100000930682	0003		
DFSA	202100000955400	0002		
DFSA	202100000955836	0003	Methamphetamine, Amphetamine	
DFSA	202100000965925	0003	Ethanol	
DFSA	202100000994427	0003		
DFSA	202100001032333	0003		
DFSA	202100001057250	0003		
DFSA	202100001059892	0003	Ethanol	
DFSA	202100001068291	0003	Cocaine & Metabolite	
DFSA	202100001108065	0003	Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202100001124486	0001	Methamphetamine, Amphetamine	
DFSA	202100001137300	0003		
DFSA	202100001141476	0003	Alprazolam Metabolite, Diphenhydramine	
DFSA	202100001155581	0003	Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202100001162694	0001	Methamphetamine, Cetirizine, Levetiracetam	
DFSA	202100001163154	0008	Methamphetamine, Amphetamine	
DFSA	202100001182071	0004		
DFSA	202100001237270	0003	Methamphetamine, Amphetamine	
DFSA	202100001264591	0003		
DFSA	202100001271312	0003		
DFSA	202100001299740	0007	Ethanol, Methamphetamine, Amphetamine	
DFSA	202100001311693	0002		
DFSA	202100001311961	0002	Methamphetamine, Amphetamine	
DFSA	202100001315630	0003	Methamphetamine, Amphetamine	
DFSA	202100001316883	0003	Methamphetamine, Amphetamine, Fentanyl	
DFSA	202100001318772	0001	PCP, Methamphetamine, Benzoyllecgonine (Cocaine Metabolite), Gabapentin, Topiramate, Valproic Acid, Diphenhydramine	
DFSA	202100001328570	0003	Methamphetamine, Amphetamine	
DFSA	202100001346506	0003	Methamphetamine, Amphetamine	
DFSA	202100001379396	0003	Hydrocodone, Hydromorphone	
DFSA	202100001380270	0001		
DFSA	202100001409984	0003	Methamphetamine, Amphetamine	
DFSA	202100001432337	0001	Cocaine & Metabolite	
DFSA	202100001456758	0005	Fluoxetine & Metabolite, Trazodone & Metabolite, Lamotrigine, Cetirizine	
DFSA	202100001490465	0006	Methamphetamine	
DFSA	202100001503682	0005	Ethanol, Cocaine & Metabolite	
DFSA	202100001574548	0003	Ethanol, Benzoyllecgonine (Cocaine Metabolite)	
DFSA	202100001581683	0003		
DFSA	202100001634416	0003	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl	
DFSA	202100001638780	0003		
DFSA	202100001658109	0003	Methamphetamine, Amphetamine	
DFSA	202100001659314	0003	Ethanol, Methamphetamine, Doxylamine, Tramadol, Cetirizine	
DFSA	202100001690131	0001		
DFSA	202100001690553	0004	Norfentanyl, Fluoxetine, Cetirizine	
DFSA	202100001695734	0003	Amphetamine	
DFSA	202100001722930	0004	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl, Cocaine & Metabolite	
DFSA	202100001742239	0003		
DFSA	202100001751907	0002	Oxycodone, Oxymorphone, Alprazolam & Metabolite, Nordiazepam, Oxazepam, Temazepam	
DFSA	202100001769583	0005	Amphetamine, Fluoxetine	
DFSA	202100001792894	0003	Methamphetamine, Amphetamine, Lorazepam, Trazodone Metabolite, Sertraline Metabolite	
DFSA	202100001835996	0003	Ethanol, Cocaine & Metabolite	
DFSA	202100001899256	0003		
DFSA	202100001924972	0001	Diphenhydramine	BAC: Detected <0.025
DFSA	202000001779768	0003	Ethanol	
DFSA	201900001864610	0003	Methamphetamine, Amphetamine	
DFSA	201900001870249	0003	Cetirizine	
DFSA	201900001879483	0003	Methamphetamine, Amphetamine	
DFSA	201900001972097	0003	Methamphetamine, Amphetamine	
DFSA	201900002080457	0003		
DFSA	201900002100246	0003		
DFSA	201900002131791	0003	Methamphetamine, Amphetamine, Diphenhydramine	
DFSA	201900002157260	0003	Alprazolam Metabolite	

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DFSA	201900002170763	0003	
DFSA	201900002221139	0003	
DFSA	201900002266007	0003	Methamphetamine, Amphetamine
DFSA	202000000001533	0003	Ethanol
DFSA	202000000005409	0002	
DFSA	202000000031156	0001	
DFSA	202000000121458	0003	
DFSA	202000000123794	0003	Fentanyl, Norfentanyl, Alprazolam & Metabolite, Butalbital, Tramadol
DFSA	202000000133488	0004	Benzoyllecgonine (Cocaine Metabolite)
DFSA	202000000135998	0003	Methamphetamine, Amphetamine
DFSA	202000000169247	0004	
DFSA	202000000204050	0004	Methamphetamine, Amphetamine
DFSA	202000000239482	0004	
DFSA	202000000261869	0003	Methamphetamine, Amphetamine, Gabapentin, Cetirizine
DFSA	202000000328112	0004	
DFSA	202000000341969	0004	Methamphetamine, Amphetamine, Chlorpheniramine
DFSA	202000000348716	0003	Methamphetamine, Amphetamine
DFSA	202000000373494	0001	
DFSA	202000000412457	0004	
DFSA	202000000448296	0003	
DFSA	202000000453416	0002	Lamotrigine BAC: 0.059
DFSA	202000000497289	0003	Methamphetamine, Amphetamine
DFSA	202000000598651	0003	
DFSA	202000000702283	0002	BAC: Detected <0.025
DFSA	202000000785414	0004	Cocaine & Metabolites
DFSA	202000000843490	0004	Methamphetamine, Amphetamine BAC: 0.031
DFSA	202000000883801	0003	Methamphetamine, Amphetamine
DFSA	202000000923427	0003	Cocaine & Metabolite, Etizolam & Metabolite, Methorphan
DFSA	202000000932230	0003	Amphetamine
DFSA	202000001024656	0003	Cetirizine
DFSA	202000001048608	0003	
DFSA	202000001051175	0003	
DFSA	202000001071385	0003	Phentermine
DFSA	202000001117189	0003	
DFSA	202000001119427	0001	
DFSA	202000001128123	0004	Ethanol
DFSA	202000001156565	0003	Gabapentin
DFSA	202000001183727	0006	
DFSA	202000001190897	0001	Oxycodone, Hydrocodone
DFSA	202000001216973	0001	BAC: Detected <0.025
DFSA	202000001366036	0003	Oxazepam
DFSA	202000001408864	0003	Diphenhydramine
DFSA	202000001421715	0001	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl
DFSA	202000001424421	0003	
DFSA	202000001506204	0003	
DFSA	202000001526923	0003	
DFSA	202000001574027	0005	Methamphetamine, Amphetamine
DFSA	202000001591226	0003	
DFSA	202000001591852	0001	
DFSA	202000001620455	0003	
DFSA	202000001671619	0003	BAC: Detected <0.025
DFSA	202000001671893	0006	BAC: 0.073
DFSA	202000001688824	0003	Cetirizine
DFSA	202000001695478	0002	
DFSA	202000001712223	0005	Methamphetamine, Amphetamine, Morphine, Alprazolam & Metabolite, Citalopram, Lamotrigine, Levetiracetam
DFSA	202000001716517	0003	Methamphetamine, Amphetamine, Gabapentin, Levetiracetam
DFSA	202000001771050	0003	Methamphetamine, Amphetamine, Diphenhydramine
DFSA	202000001797320	0004	Benzoyllecgonine (Cocaine Metabolite)
DFSA	202000001840723	0003	MDMA, MDA, Amphetamine
DFSA	202000001860521	0001	
DFSA	202000001914592	0005	Methamphetamine, Amphetamine
DFSA	202000001916287	0003	Methamphetamine
DFSA	202000001925742	0003	Methamphetamine, Amphetamine
DFSA	202000001948674	0003	
DFSA	202000001955252	0003	Doxylamine
DFSA	201800002165716	0003	Cocaine & Metabolite
DFSA	201800002191125	0004	
DFSA	201800002196978	0003	
DFSA	201800002208164	0003	Methamphetamine, Amphetamine, Lidocaine
DFSA	201800002216875	0003	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine

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DFSA	201800002261516	0004		
DFSA	201900000096969	0003	Methamphetamine, Amphetamine	
DFSA	201900000106901	0003	Cocaine & Metabolites	BAC 0.082
DFSA	201900000108832	0003	Ethanol	
DFSA	201900000116251	0003	Sertraline	
DFSA	201900000146840	0003		
DFSA	201900000153873	0003		
DFSA	201900000197496	0003	Levetiracetam	
DFSA	201900000198294	0006		
DFSA	201900000200415	0003		
DFSA	201900000243172	0001	Methamphetamine	
DFSA	201900000294821	0005	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Fentanyl, Cocaine & Metabolite, Alprazolam & Metabolite	
DFSA	201900000310975	0004	Methamphetamine, Amphetamine, Benzoylcegonine (Cocaine Metabolite)	
DFSA	201900000316720	0003	Ethanol	
DFSA	201900000329053	0003	Methamphetamine, Amphetamine	
DFSA	201900000340947	0003		
DFSA	201900000407586	0006		
DFSA	201900000459672	0004		
DFSA	201900000495494	0003		
DFSA	201900000506757	0002		
DFSA	201900000507405	0003		
DFSA	201900000525233	0003	PCP, Codeine, Cetirizine	BAC: Detected <0.025
DFSA	201900000560579	0003	Methamphetamine, Amphetamine, Fentanyl	
DFSA	201900000560682	0003	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Clonazepam (Metabolite), Diphenhydramine	
DFSA	201900000582295	0003	PCP, Morphine, Benzoylcegonine (Cocaine Metabolite)	
DFSA	201900000621114	0003	Benzoylcegonine (Cocaine Metabolite), Citalopram	
DFSA	201900000635441	0003	Methamphetamine, Amphetamine, Methadone & Metabolite, Methorphan	
DFSA	201900000648317	0003	Alprazolam Metabolite	
DFSA	201900000658923	0003		
DFSA	201900000695696	0005	Amphetamine, Methadone & Metabolite, Alprazolam & Metabolite	
DFSA	201900000790128	0003		
DFSA	201900000794347	0003	Benzoylcegonine (Cocaine Metabolite)	BAC: 0.034
DFSA	201900000800395	0006	Methamphetamine, Amphetamine	
DFSA	201900000888059	0002		
DFSA	201900000947096	0002		
DFSA	201900000951916	0003	Norquetiapine, Cetirizine	BAC: Detected <0.025
DFSA	201900000966534	0005	Ethanol	
DFSA	201900001035457	0003	Methamphetamine, Amphetamine	
DFSA	201900001056455	0003	Propofol	
DFSA	201900001073661	0002		
DFSA	201900001074728	0004		
DFSA	201900001095426	0006	Methamphetamine, Amphetamine, Cocaine & Metabolite	
DFSA	201900001113679	0003		
DFSA	201900001118120	0006		BAC: 0.071
DFSA	201900001162149	0003		
DFSA	201900001211344	0001	Methamphetamine, Amphetamine, Olanzapine	
DFSA	201900001243824	0004		BAC: Detected <0.025
DFSA	201900001244831	0003	Ethanol, Benzoylcegonine (Cocaine Metabolite)	
DFSA	201900001268601	0003	Fentanyl	
DFSA	201900001287708	0002	Cocaine & Metabolite	BAC: 0.115
DFSA	201900001292452	0004		
DFSA	201900001331753	0003		
DFSA	201900001346293	0003		
DFSA	201900001446811	0007		
DFSA	201900001460626	0006	Ethanol	
DFSA	201900001496559	0004	Methamphetamine, Amphetamine, Methorphan, Doxylamine, Diphenhydramine	
DFSA	201900001541456	0005	Methamphetamine, Amphetamine	
DFSA	201900001555602	0003	Methamphetamine, Topiramate, Fluoxetine	BAC: 0.138
DFSA	201900001556381	0003		BAC: 0.196
DFSA	201900001594814	0003	Ethanol, Cocaine & Metabolite	
DFSA	201900001621728	0003	Alprazolam & Metabolite	
DFSA	201900001645941	0003		
DFSA	201900001646107	0003	Diphenhydramine	
DFSA	201900001690683	0004	Ethanol	
DFSA	201900001708544	0003	Methamphetamine, Amphetamine	
DFSA	201900001768813	0003		

DFSA	201900001799709	0003	Citalopram
DFSA	201900001816545	0003	
DFSA	201900001855026	0003	Methamphetamine, Amphetamine
DFSA	201900001866084	0002	Methamphetamine, Amphetamine, Fentanyl
DFSA	202200001142251	0003	Trazodone, Gabapentin, Risperidone Metabolite, Cetirizine, Norchlorcyclizine
DFSA	202200001285234	0001	Methamphetamine, Amphetamine

**Offense type in LIMS entered as drug-facilitated sexual assault - DFSA when a sample related to any sexual assault is received, however no case specific information received by laboratory*

2022-Q1-0024
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Amanda B Gallegos

From: Amanda B Gallegos
Sent: Monday, February 6, 2023 8:03 AM
To: Ryan Green (MCAO); Nicholas Klingerman (MCAO); Blaine Gadow (MCAO); Barbara Marshall (MCAO); Ken Vick (MCAO); Sarah DeJong
Cc: Benjamin S Swanholm; John E Knell; Jody M Wolf
Subject: ANAB assessment report and disclosure
Attachments: ANAB Reassessment_TOX Finding Summary.docx; 230129-Phoenix Police Department Laboratory Services Bureau-Revised Assessment Report.pdf; List of Urine Samples COOH-THC 2022-2019.pdf; List of Urine Samples COOH-THC 2022-2019.xlsx

Good morning,

See attached for the ANAB assessment report and additional disclosure information, please let us know if you have any questions.

Amanda Gallegos, M.S., D-ABFT-FT
Forensic Science Section Supervisor, Toxicology Section
Phoenix Police Department, Laboratory Services Bureau
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LABORATORY SERVICES BUREAU		
Document: Toxicology Procedures	Policy Number: 1258	Revision: 15
Subject: TOX-SOP-30 Protocol for the Analysis of 11-nor-delta-9-carboxy-THC in Urine by SPE	Approved: Gallegos, Amanda	
PHOENIX POLICE DEPARTMENT	Effective: 2/1/2023 1:02:01 PM	Page 1 of 4

1. PROTOCOL FOR THE ANALYSIS OF 11-NOR-DELTA-9-CARBOXY-THC IN URINE BY SPE

PURPOSE

The following method describes the SPE extraction and analysis for the confirmation of 11-nor- Δ^9 THC-COOH in urine by GC/MS-QQQ. Samples which have been screened positive by a preliminary test, as well as special requests or retest requests may follow the following protocol. Additionally this protocol may be used as a screening method.

PLAN

A. Equipment

- (1) Agilent 7890B/8890 GC / Agilent 7000D Triple Quadrupole utilizing a 30 meter column with 5% diphenylpolysiloxane, 95% dimethylpolysiloxane; 0.25 micron film thickness
- (2) Positive Pressure Manifold
- (3) SPE Column – Polymeric bead- Dual mode (hydrophobic and a strong anionic exchanger) CEREX Polycrom THC 682-0353C
- (4) Heating block
- (5) Sample concentrator with UHP Nitrogen
- (6) Centrifuge

B. Reagents (Store in glass at room temperature. Stable until consumed.)

- (1) **1N NaOH.** To 500ml of water add 20 grams of sodium hydroxide. Stir until dissolved. Label reagent. Stable until consumed.
- (2) **85:15 deionized water:acetonitrile and 1% ammonium hydroxide solution.** Prepare fresh daily.
- (3) **80:20 hexane: ethyl acetate and 2% glacial acetic acid.** Prepare fresh daily.
- (4) **Methanol.** Prepare a transfer bottle of ACS/HPLC grade methanol. Label accordingly.
- (5) **Ethyl acetate.** Prepare a transfer bottle of ACS/HPLC grade ethyl acetate. Label accordingly.
- (6) **BSTFA with 1% TMCS.** Stable until consumed. Crimp cap and label appropriately if transferred.

C. Standards (Store refrigerated. Stable per manufacturer's recommendation):

- (1) **100 μ g/ml 11-nor Δ^9 THC-COOH stock standard.** Purchase a 100 μ g/ml ampoule.
- (2) **100 μ g/ml D3-11-nor Δ^9 THC-COOH stock internal standard.** Purchase a 100 μ g/ml ampoule.
- (3) **100 μ g/ml 11-nor Δ^9 THC-COOH glucuronide standard.** Purchase a 100 μ g/ml ampoule.

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Document: Toxicology Procedures

Policy Number:
1258

Revision:
15

Subject: TOX-SOP-30 Protocol for the Analysis of 11-nor-delta-9-carboxy-THC in Urine by SPE

Approved:
Gallegos, Amanda

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D. Calibrators and Internal Standard:

- (1) 1 ng/μl 11-nor Δ⁹ THC-COOH calibrator stock solution in methanol. In a 10ml volumetric flask add 100 μl of 100 μg/ml 11-nor Δ⁹ THC-COOH stock standard. Dilute to volume with Methanol. Store refrigerated. Stable for two years.
- (2) 0.1 ng/μl 11-nor Δ⁹ THC-COOH interim calibrator stock solution in methanol. Prepare a 10-fold dilution of the 1 ng/μl calibrator stock. For example, to 450 μl of methanol, add 50 μl of 1 ng/μl 11-nor Δ⁹ THC-COOH calibrator stock solution. Discard after use.
- (3) 5 ng/ml 11-nor Δ⁹ THC-COOH calibrator. To 1 ml of negative urine, add 50 μl of 0.1 ng/μl 11-nor Δ⁹ THC-COOH interim calibrator stock solution.
- (4) 10 ng/ml 11-nor Δ⁹ THC-COOH calibrator. To 1 ml of negative urine, add 100 μl of 0.1 ng/μl 11-nor Δ⁹ THC-COOH interim calibrator stock solution.
- (5) 50 ng/ml 11-nor Δ⁹ THC-COOH calibrator. To 1 ml of negative urine, add 50 μl of 1 ng/μl 11-nor Δ⁹ THC-COOH calibrator stock solution.
- (6) 100 ng/ml 11-nor Δ⁹ THC-COOH calibrator. To 1 ml of negative urine, add 100 μl of 1 ng/μl 11-nor Δ⁹ THC-COOH calibrator stock solution.
- (7) 0.5 ng/μl D3-11-nor Δ⁹ THC-COOH internal standard. In a 10 ml volumetric flask add 50 μl of the 100 μg/ml D3-11-nor-Δ⁹ THC-COOH stock internal standard. Dilute to volume with methanol. Store refrigerated Stable for two years.

E. Quality Controls (Store refrigerated. Stable 2 years if made in house or as per manufacturers recommendation):

- (1) **Positive Control.** 15 ng/ml 11-nor-Δ⁹ THC-COOH. Prepared in house from a different lot of stock solution than that used to prepare calibrators or purchased from an external vendor. (Example: to 1 ml negative urine add 50 μl of a 0.3 ng/μl COOH-THC standard, TOX-SOP-38 low-level control)
- (2) **Negative Control.** Urine produced in house will be used as negative control.
- (3) **Hydrolysis Control.** 25 ng/ml 11-nor-Δ⁹ THC-COOH. Add 75 μl of the 100 ng/mL 11-nor Δ⁹ THC-COOH glucuronide standard and dilute to 10 ml with methanol to make an 0.5 ng/μl hydrolysis control stock. To 1 ml of negative urine, add 50 μl of 0.5 ng/μl hydrolysis control stock.

F. Solid Phase Extraction (SPE)

(1) Sample preparation.

- (a) Prepare a set of calibrators at 5, 10, 50, 100 ng/ml, positive control and hydrolysis control as listed above; pipette 1 ml of the negative control and samples into respectively labeled culture tubes. Add 50 μl of working internal standard to each tube. (High samples may be diluted, as an example x10 by adding 100 μl sample/ 1 ml H₂O.)

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Approved:
Gallegos, Amanda

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(b) Perform base hydrolysis of samples by adding 500 µl of 1N NaOH, vortex and let stand for ten minutes.

(c) Centrifuge at 3500 rpm for 5 minutes.

(2) **Sample application**

Apply samples to appropriately labeled SPE columns. Flow rate should be about 1.0 ml/minute or gravity only.

(3) **Column rinse and elution**

Pass through the column sequentially the following reagents, at 1-2 ml/min:

(a) 1 ml freshly prepared 85:15 DI water/acetonitrile and 1% ammonium hydroxide.

(b) 1 ml methanol.

(c) Dry column for 10 minutes or until there is no moisture left in the columns at max flow. Remove moisture if present from SPE cartridge tips with a kimwipe.

(d) Elute with 0.75 ml 80:20 hexane:ethyl acetate with 2% glacial acetic acid twice into appropriately labeled silanized microvials.

(4) **Derivatization**

(a) Evaporate samples to dryness under nitrogen.

(b) To the microvials add 60 µl of ethyl acetate, vortex and then add 25 µl BSTFA with 1% TMCS.

(c) Crimp using red PTFE crimp caps, vortex and derivatize for at least 20 min at 70°C.

G. **Data Acquisition and Analysis:**

(1) Make sure the EI High Sensitivity Autotune was performed (with the UTHC.m method loaded), rinse vials filled, etc.

(2) Set up a sequence with the calibrators injected first in order to calibrate the instrument used. The transition ratios and retention times should be set by a mid-level calibrator. Subsequent injections to include negative control, positive controls at the beginning and at the end of the run; and solvent blanks between case samples. For samples requiring dilution add the appropriate sample multiplier in the sequence table.

(3) Analyze using UTHC.m on GC/MS-QQQ

H. **Results and Acceptability (Qualitative):**

(1) Calibration $R^2 \geq 0.99$ and calibrators within 20% of set value

(2) Positive control is positive (≥ 10 ng/ml)

(3) Hydrolysis control is positive (≥ 10 ng/ml)

(4) Negative control < 25% of area count of cutoff calibrator

(5) Retention time within 2% as set or stored from calibrator

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- (6) Transition ratios within 20% as set or stored from calibrator
- (7) Chromatographically acceptable i.e. peak purity $\geq 90\%$ for primary transition
- (8) Blank prior to sample < 25% area count of cutoff calibrator
- (9) Report analyte as positive ≥ 10 ng/ml

I. Limitations

- (1) Carryover potential >1000 ng/ml: If preceeding sample raw value is 10 times the area count of the highest calibrator and the subsequent measured case value is >20 ng/ml, then acceptable; but if preceeding sample raw value is 10 times the area count of the highest calibrator and the subsequent measure case value is <20 ng/ml, then re-inject at end of batch with an unextracted negative (add internal standard, dry down and derivatize with BSTFA) immediately prior to analysis.

Amanda B Gallegos

From: Qualtrax System <Qualtrax@phoenix.gov>
Sent: Wednesday, January 25, 2023 10:48 AM
To: Amanda B Gallegos; Donald J Stenberg; James S Hoban III; Natasha Imadiyi; Gayle M Swanson; John J Musselman; Richard M Bond; Kristen D Wynn; John E Knell
Subject: Document 1257 has been retired.

Document 1257 TOX-SOP-29 Protocol for 11-nor-delta-9-Carboxy-THC Analysis in Urine by LL has been retired by Gallegos, Amanda on 1/25/2023 10:47:06 AM for the following reason: removing option to use this method, updating TOX-SOP-30 for urine COOH-THC extractions Please remove all other references to this document in the system.

Carboxy-THC Confirmation in Urine by GC/MS/MS

Qualitative Confirmation/Identification Validation Checklist

SOP	<u>1-26-23</u>
Stability	<u>1-24-23</u>
SPE Extraction efficiency	<u>1-17-23</u>
Interference studies	<u>1-25-23</u>
Carryover	<u>1-19-23</u>
Limit of Detection/Cutoff	<u>1-17-23</u>

Joel Muesel A4322
Forensic Scientist

1-26-23
Date

Joel Kuehl
Quality Manager

Amel Hallin A4710
Supervisor

1/30/23
Date

2-1-23
Date

2022-Q1-0024
30

Carboxy-THC by GCMSMS Validation summary

Based on criteria outlined in the validation plan and results experimentally determined, the new Carboxy-THC method (UTHC.m) utilizing 1 ml of urine, new derivatizing reagent BSTFA, and modification of the existing GCMSMS cannabinoids in blood method, is fit for use.

For clarification, the validation plan references TOX-SOP-38 for combining Carboxy-THC in urine with the blood method. The new method references TOX-SOP-30, which has been updated with the new extraction, reagents, and method (UTHC.m). For expediency and simplicity it was decided to keep the blood and urine methods separate and limit the scope of urine analytes to Carboxy-THC.

2022-05-0024
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Experiments for Validation of Qualitative confirmation of Cannabinoids in Urine using the current Blood GC/MS/MS Quantitative/Qualitative Method

Interference (Section 8.5)

- 10 different sources of each matrix, no IS (Section 8.5.2)
- 1 extracted sample + (5x) isotopically-labeled IS (Section 8.5.3)
- 1 extracted sample with high calibrator concentrations, no IS (Section 8.5.3)
- 1000 ng/ml common drugs mix 1, containing: citalopram, diphenhydramine, zolpidem, lidocaine, promethazine, cyclobenzaprine, sertraline, amitriptyline, and venlafaxine.
- 10,000 ng/ml common drugs mix 2: lamotrigine, carbamazepine, topiramate, trazodone, and methocarbamol
- 1000 ng/mL Benzodiazepine calibrator mix: See TOX-SOP-62 for drugs.
- 1000 ng/mL Amp/Coc/PCP containing: Amphetamine, methamphetamine, methylenedioxymethamphetamine(MDA), methylenedioxymethamphetamine(MDMA), Benzoylcegonine. Cocaine and cocaethylene @200ng/mL, Phencyclidine(PCP) @100ng/mL.
- 10,000ng/mL Barbiturate/OTC mix containing: Amobarbital, butalbital, secobarbital, pentobarbital, phenobarbital, Ibuprofen and Acetaminophen.
- 1000 ng/ml CBD, 7-COOH-CBD, CBG, and CBN

Processed Sample Stability (Section 9.3)

Evaluate length of time that analyte in extracted/BSTFA derivatized urine extracted and stored at room temperature on autosampler remains stable. Perform injections in triplicate of extracts at low and high concentrations every 24 hours or as work schedules permit, up to one week.

Carryover (Section 8.4)

- Addressed in routine QC practices by analyzing blank samples between case samples. Due to high levels of drugs in urine samples, carryover will be assessed at 2x, 4x, 10x, 20x (i.e. 500,1000,2500,5000ng/ml)the highest calibrator concentration.

Limit of Detection

- Lowest non-zero calibrator approach (Section 8.7.4.): Three different sources of urine matrix samples fortified at decision point concentration (1,1,5 ng/ml) and analyzed over 3 runs to demonstrate acceptable detection and identifaciton criteria are met.

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Method Development Plan Review Checklist

Section: Toxicology

Date: 06/28/2021

Method to be Developed: Addition of Urine THC-COOH Urine Qualitative Confirmations to existing Blood GC/MS-MS confirmation method (TOX-SOP-38). (to replace current GC/MS methods)

Estimated Time Frame for Completion: 6 months

List or provide attachments as applicable for the following topics.

What conclusion or result will be generated from the method?

A reportable qualitative result for urine samples:

THC/THC Metabolites (related cannabinoids as applicable)

List the DATA that the method will generate to support the conclusion or results.

- Positive identification criteria based on retention time, precursor m/z fragmentation, product m/z fragmentation. Quantitation, positive or none detected, based on calibration with a cutoff threshold.
- Evaluation of Interference from Urine matrix
- Ion suppression/enhancement determination — NA GCMSMS
- Desired 5ng/mL cut-off for THC-COOH (decision point) — SOFT / DESA 10 ng/mL
- Carryover from Urine samples, via matrix samples extracted with negative control, 500, 1000 and 5,000 ng/mL

Will a quantitative test result be reported? If Yes, include a plan to determine the uncertainty of measurement.
No

Will the method development and associated validation address the following topics? Provide detail as appropriate.

- Measurement Range Urine: coincide with current levels from blood method (TOX-SOP-38)
- Accuracy — (+/- 20%)
- Detection Limit: evaluate cut-offs from blood method (TOX-SOP-38) for urine samples via 3 different runs
- Robustness against external influences — Interference study w/ matrix 10 samples extracted with negative control and at cutoff levels
- Measurement Uncertainty, Quantification Limit, Linearity, Repeatability/Reproducibility, Selectivity — N/A

Does the method compare to others in use? If yes, will the new method replace it?

Yes, this method will replace the current methods being utilized for determination of THC-COOH in Urine using GC-MS (TOX-SOP-29 and TOX-SOP-30). The sample preparation process will either remain the same as listed in TOX-SOP-30 for hydrolysis and extraction by SPE extraction using Cerex Polycrom THC 682-0353C columns with a shift from HFIPA/PFAA derivatization to the blood BSFTA w/1% TMCS derivatization (TOX-SOP-38). Alternatively, a simpler and more streamlined extraction may be investigated, with the potential to reduce sample volume needed or reduce consumables/solvents used in the current process.

Describe the theory of the method or procedure

GC-MS/MS (Gas Chromatography-Tandem Mass Spectrometry) utilizes gas chromatography to separate the analytes in the gas phase based on their chemical composition and interaction

Method Development Plan Review Checklist

with the stationary phase of the analytical column. Retention time on the analytical column is one identification criteria. When the compounds exit the analytical column they enter the source, where precursor fragments are formed via electron impact (EI). Unique precursor fragments are filtered through the first quadrupole of the tandem Mass Spectrometer. Only selected precursor ions enter the collision cell, where fragmentation occurs via collision with nitrogen gas and unique product ions are selectively passed through the second quadrupole. The presence of precursor ions to form product ions and the abundance of the product ions as well as the ratio of the product ions to each other; and retention times (GC) are used to identify and quantitate individual analytes.

List references, if known, that are available to support the method.

TOX-SOP-38

Kemp P.M. *et al.* Cannabinoids in Humans. I. Analysis of Delta9-THC and Six Metabolites in Plasma and Urine Using GC-MS. JAT 1995;19.

Andrenyak, D.M. *et al.* Determination of THC, 11-OH-THC, COOH-THC and CBD in Human Plasma using GC-Tandem MS. JAT 2017;41:277-288.

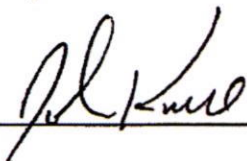
What personnel will be responsible for performing the development and validation?

**John Musselman
Gayle Swanson
Amanda Gallegos
James Hoban
DJ Stenberg
Rick Bond**

How are they qualified? Existing competencies in current Blood and Urine analysis and review

All analysts listed above have obtained competency memos for the analysis of THC & Metabolites in blood by GCMSMS and in Urine THC-COOH Confirmations by GCMS and are utilizing the current methods for analysis of case samples.

Quality Manager Review: _____



Date Approved: 6-29-21

Extracted Carboxy-THC in urine stability study

Multiple samples prepared urine were extracted to determine their stability while stored on the autosampler. Two concentrations, 20 and 100 ng/ml were tested at time intervals amenable to work hours over the course of a week. They were extracted using the CEREX-Polycrom THC columns, mixed, reappportioned into autosampler vials, dried, and diluted with 70ul of ethyl acetate/ 30ul of BSTFA and capped. They were each analyzed in triplicate on EVE GC/MS/MS method UTHC.m. The stability study would apply to analysis on any GCMSMS instrument. The extracts were considered stable if the raw area counts did not deviate more than 20% from the initial injection "t0". If the area counts did deviate more than 20%, then the analyte/ IS ratio was looked at to account for instrument variability from day to day.

See attached summary of results at times t=0, 24hrs, 48hrs, 72hrs, and 165hrs.

Results: 1) The raw area counts varied up and down by more than 20% in the urine extracts. This could be attributed to day to day instrument variability, condensation and/or evaporation in the vial, or nonuniform mixing of volumes.

The 20 ng/ml extract data demonstrated a gradual increase in area counts, 20+% at 24 and 48hrs, 60% at 72hrs, 80+% at 165hrs.

The 100 ng/ml extract data was -15% at 24hrs, 20% at 48hrs, -30% at 72hrs and +30% at 165hrs.

The relative response ratios(RR) and concentration data were much more stable throughout the time period. The largest deviation was for the 20 ng/ml extracts at 24hrs (7%). All other RR and concentration deviations were <3%.

Conclusion: Based on the analyte/IS ratio and the concentration data, extracted urine samples are stable on an autosampler for at least 6 days.

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Interference study, part 1: Evaluating matrix Interference from ten different sources.

Ten separate urine samples which were provided and/or screened negative for cannabinoids using Immunoassay. They were extracted using the cerex columns and analyzed for Carboxy-THC with the UTHC.M method. A negative control, 1.0 ng/ml extract, and 5 ng/ml extract (anticipated cutoff) were extracted and analyzed as well for comparison.

The data was collected and processed: See attached printouts/summary sheet

Results: 1) None of the samples had integrated peaks at or near Carboxy-THC or d3 Carboxy-THC Internal standard.

Conclusion: There were no matrix interferences observed.

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Interference study, part 2: Evaluating Interference from Stable-Isotope Internal Standard.

Carboxy-THC and d3-Carboxy-THC internal standard were evaluated to determine the presence of impurities and/or common transitions. An extracted urine negative control containing 100ul of the internal standard and an extracted urine 100 ng/ml calibrator with no IS added were prepared and analyzed by GC/MS/MS method UTHC.m.

Results: See attached data

Conclusion: There was no contribution from d3-Carboxy-THC internal standard to Carboxy-THC. The Carboxy-THC analyte did not contribute to more than 2% of the d3-Carboxy-THC Internal standard areas. This would cause a slight negative bias at high analyte concentrations, but did not appear to impact precision and accuracy at the 5 ng/ml cutoff. Internal standards are acceptable for use.

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Interference study, part 3: Evaluating Interference from commonly encountered drugs in Urine.

For this study, common drugs/mixtures were added to the urine samples prior to extraction including; opiates, benzodiazepines, Amp/coc/pcp, barbiturates/soma, over-the-counter(OTC) meds, and other cannabinoids including Carboxy-CBD. Urine samples were prepared and extracted with/without internal standard and analyzed by GC/MS/MS method UTHC.m.

1,000 ng/ml common drugs mix 1, containing: citalopram, diphenhydramine, lidocaine, promethazine, cyclobenzaprine, sertraline, amitriptyline, and venlafaxine.

10,000 ng/ml common drugs mix 2: lamotrigine, carbamazepine, topiramate, trazodone, and methocarbamol

1,000 ng/mL containing: Benzodiazepines + zolpidem calibrator mix.

100,500,1000,50k ng/mL Opiates LCMSMS calibrator mix..

1,000 ng/mL Stimulants/PCP mix containing: Amphetamine, methamphetamine, methylenedioxymethamphetamine(MDA), methylenedioxymethamphetamine(MDMA), benzoylecgonine, cocaine, cocaethylene, ketamine, norketamine, and phencyclidine(PCP).

10,000ng/mL Barb/Soma mix containing: Amobarbital, butalbital, secobarbital, pentobarbital, phenobarbital, meprobamate and carisoprodol.

1,000ng/mL CBD, COOH-CBD, CBG, and CBN.

The interference study was conducted on both GCMSMS instruments, Scooby & Eve.

Results:

None of the drugs in the 7 mixtures above produced a false positive Carboxy-THC result. In addition, no signals or peaks were present in the transitions windows for d3-carboxy-THC or Carboxy-THC.

Additional Studies: Δ^9 -THC & Δ^8 -COOH-THC @ 2500 ng/ml without IS, with I.S. & with Δ^9 -COOH-THC. Baseline resolution of Δ^8 & Δ^9 COOH-THC & no false positive or interference. JM 1-30-23

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Interference study, part 4: Carboxy-CBD conversion to Carboxy-THC.

Additional studies were performed to demonstrate the absence of conversion of Carboxy-CBD to Carboxy-THC under 1) Prolonged derivatization in BSTFA, and 2) Prolonged exposure to acidic conditions. Urine samples were spiked at 2500 ng/ml with Carboxy-CBD and extracted by SPE using the new method. For condition #1 above, an extracted sample was derivatized for 24 hrs with BSTFA and then analyzed for the presence of Carboxy-THC. For condition #2 above 5 samples were extracted and left in the acidic elution step (Hexane/ethyl acetate/ glacial acetic acid) for 1, 2, 3, 4, and 5 hrs , derivatized and then analyzed for the presence of Carboxy-THC.

See attached reports.

Results: 1) None of the samples had integrated peaks at or near Carboxy-THC .

Conclusion: There was no conversion to Carboxy-THC observed.

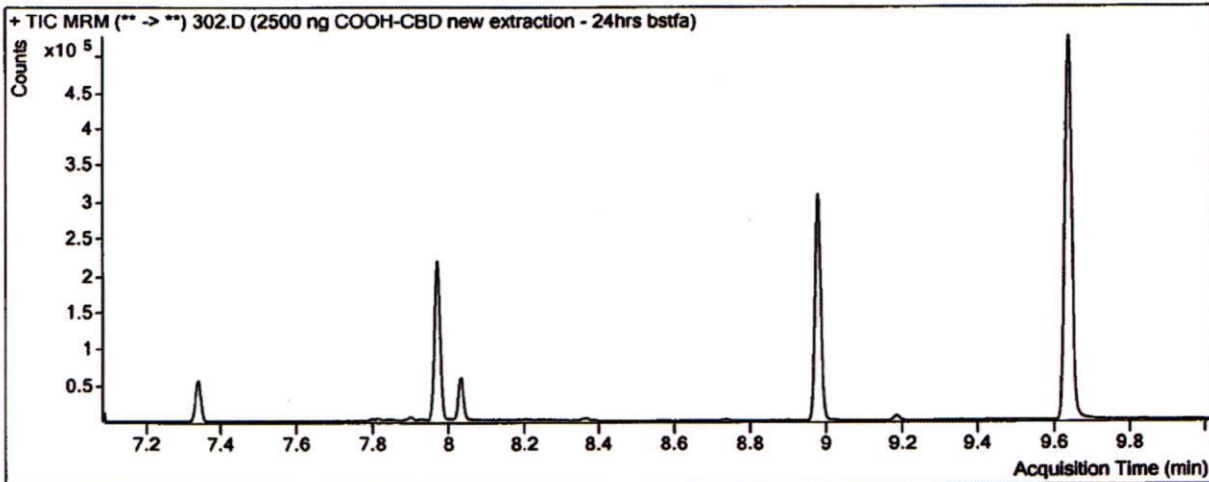
2022-QI-0024
39

Quantitative Analysis Sample Report

Batch Info

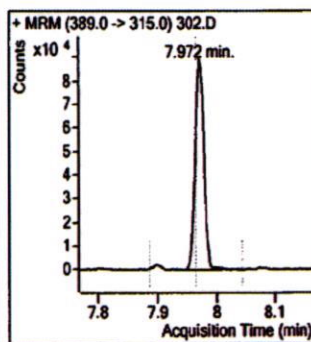
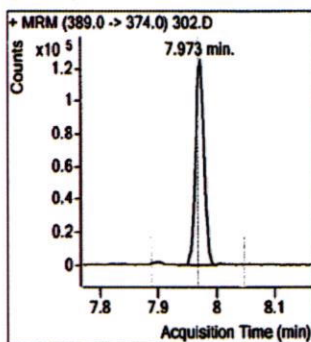
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 Cal. Update 2023-01-05 14:12 Type Sample
 Report Time 2023-01-11 07:55 Position 2
 Acq Method THC

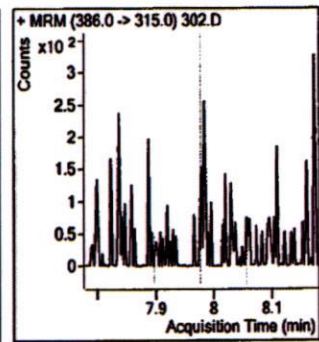
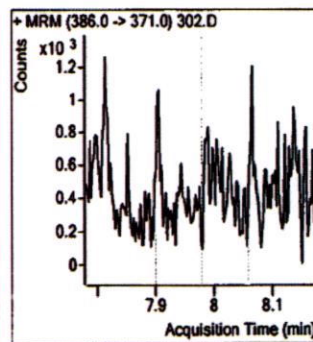


Compound	Concentration	Area	RT	Transition	Qual ratio	Range
d3-THC	ISTD	128533	7.973	389.0 -> 374.0		
		92421		389.0 -> 315.0	71.9	(55.8-83.7) +
THC	0.00 ng/ml		↓	386.0 -> 371.0		
d3-COOH	ISTD	453062	9.639	476.0 -> 358.2		
		217724		374.0 -> 292.0	48.1	(39.5-59.2) +
COOH	0.00 ng/ml		↓	473.0 -> 355.0		

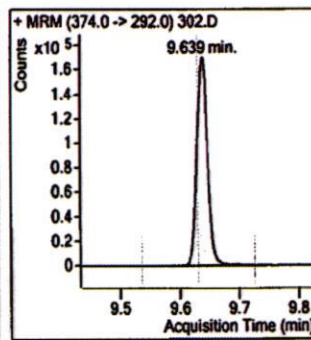
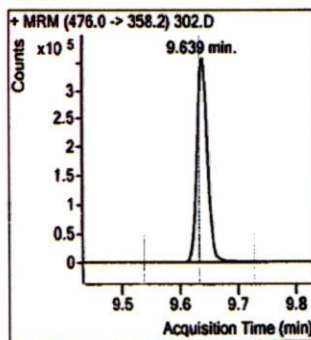
d3-THC



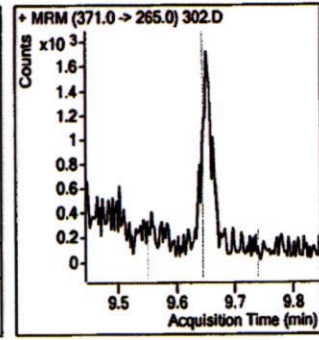
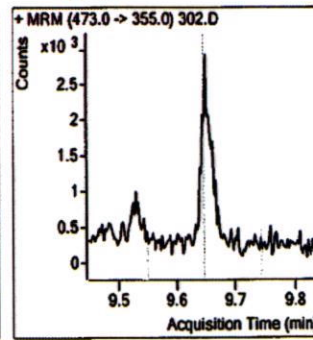
THC



d3-COOH



COOH



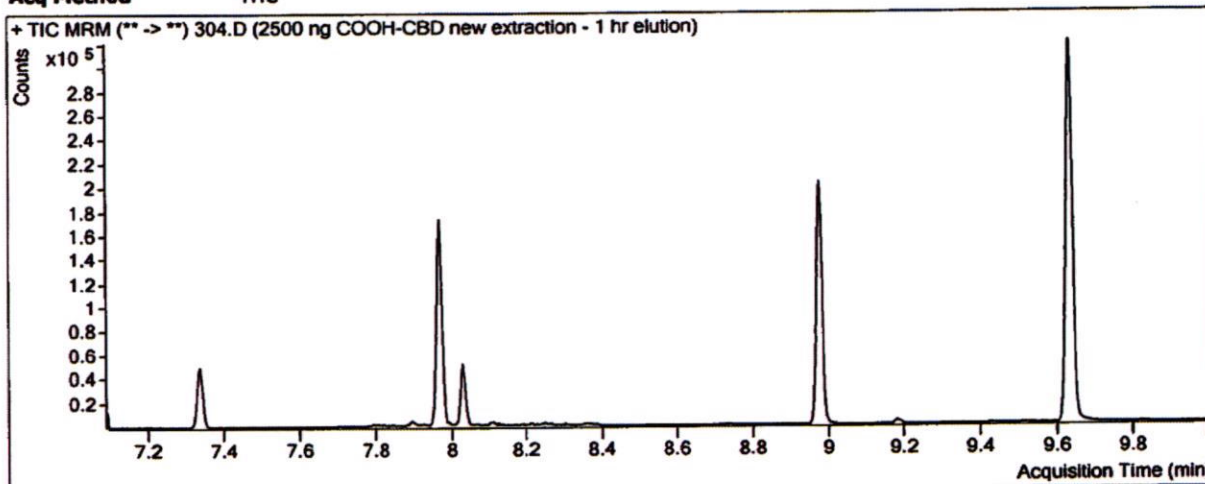
2022-Q1-0024
40

Quantitative Analysis Sample Report

Batch Info

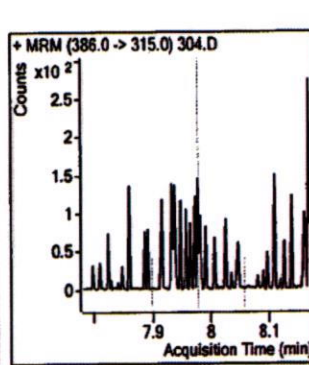
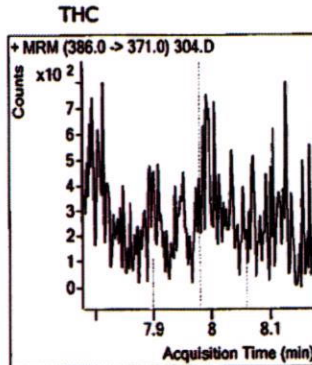
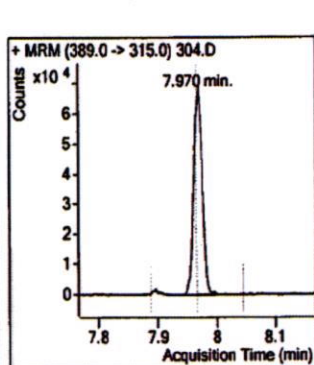
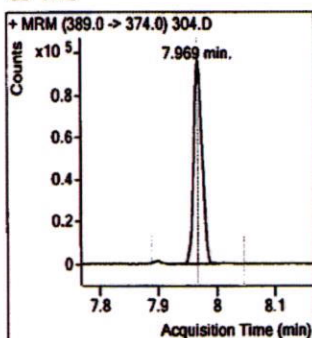
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Acq. Time 2023-01-10 14:36 **Data File** 304.D
Cal. Update 2023-01-05 14:12 **Type** Sample
Report Time 2023-01-11 07:55 **Position** 3
Acq Method THC



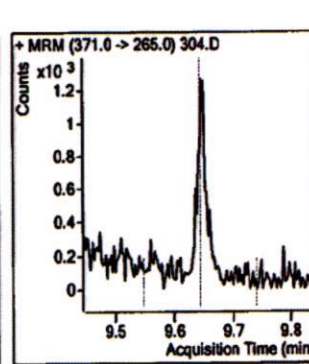
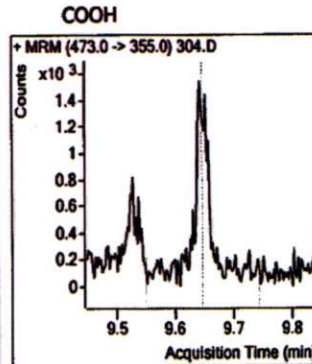
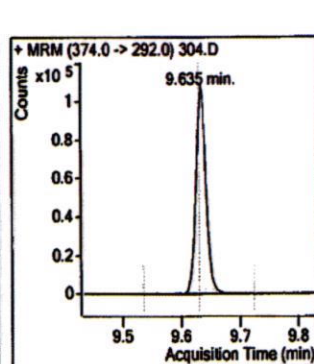
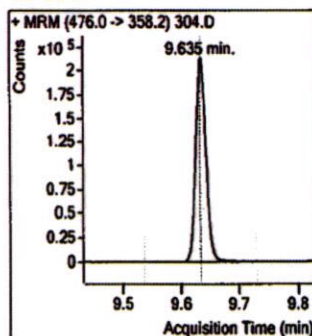
Compound	Concentration	Area	RT	Transition	Qual ratio	Range
d3-THC	ISTD	97644	7.969	389.0 -> 374.0		
		71399		389.0 -> 315.0	73.1	(55.8-83.7) +
THC	0.00 ng/ml		↓	386.0 -> 371.0		
d3-COOH	ISTD	260432	9.635	476.0 -> 358.2		
		132650		374.0 -> 292.0	50.9	(39.5-59.2) +
COOH	0.00 ng/ml		↓	473.0 -> 355.0		

d3-THC



THC

d3-COOH



COOH

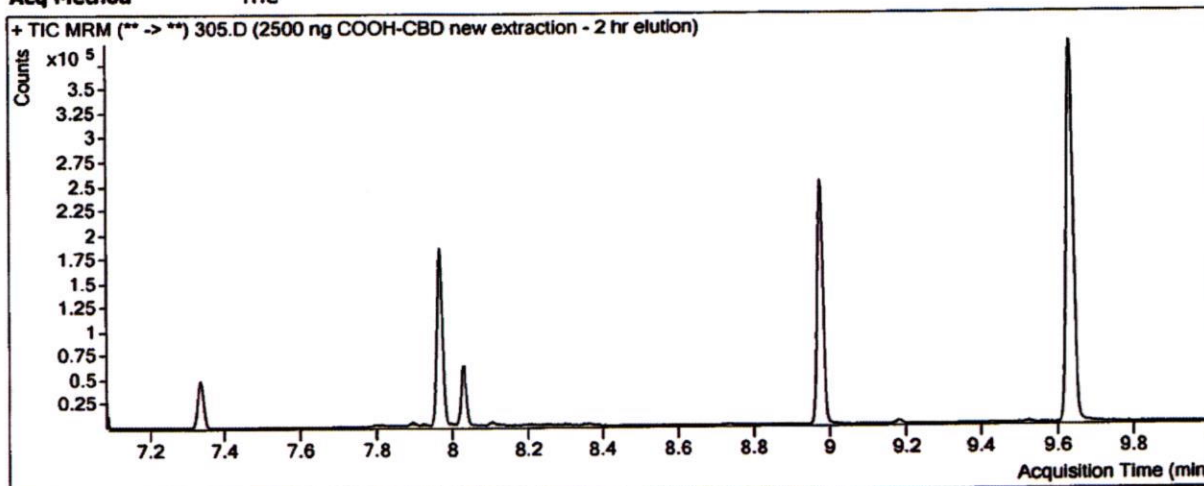
2022-QI-0024
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Quantitative Analysis Sample Report

Batch Info

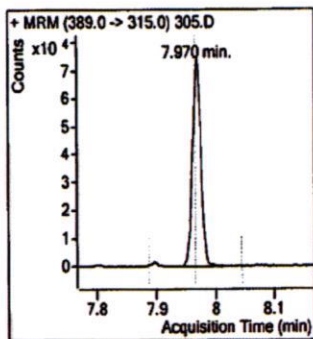
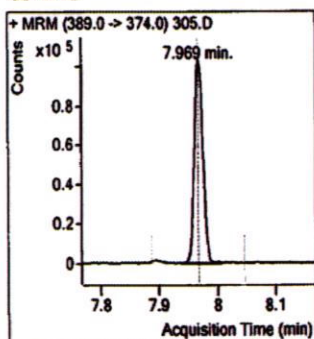
D:\MassHunter\Data\GMS\2022\urine val 122022\QuantResults\COOH 122022.batch.bin

Instrument Scooby Doo **Sample** 2500 ng COOH-CBD new extraction - 2 hr elution
Acq. Time 2023-01-10 14:50 **Data File** 305.D
Cal. Update 2023-01-05 14:12 **Type** Sample
Report Time 2023-01-11 07:56 **Position** 4
Acq Method THC

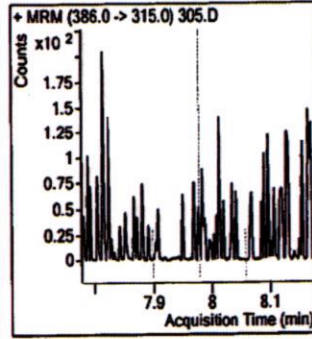
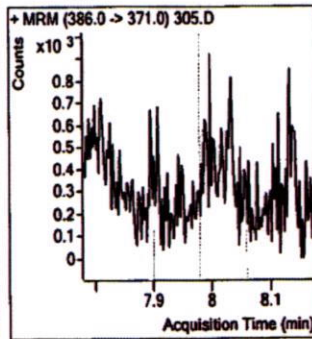


Compound	Concentration	Area	RT	Transition	Qual ratio	Range
d3-THC	ISTD	105654	7.969	389.0 -> 374.0		
		76443		389.0 -> 315.0	72.4	(55.8-83.7) +
THC	0.00 ng/ml		↓	386.0 -> 371.0		
d3-COOH	ISTD	326314	9.635	476.0 -> 358.2		
		166881		374.0 -> 292.0	51.1	(39.5-59.2) +
COOH	0.00 ng/ml		↓	473.0 -> 355.0		

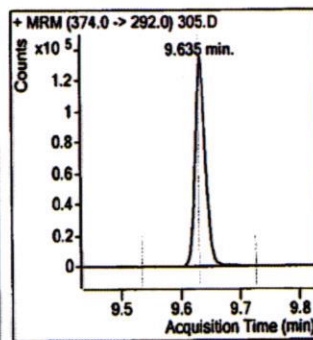
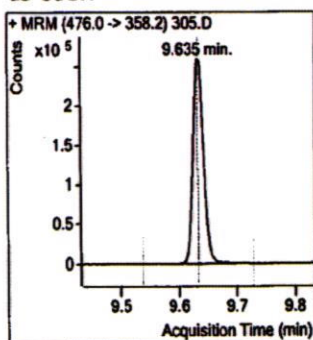
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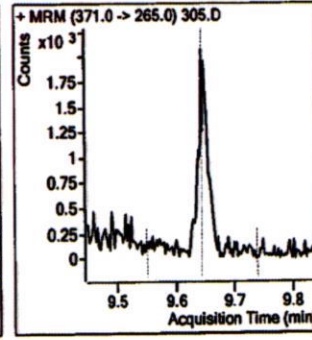
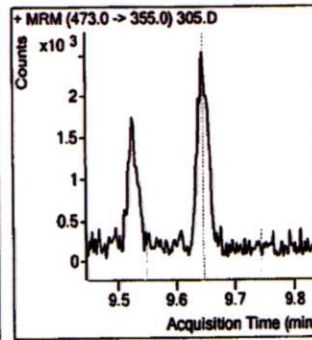
THC



d3-COOH



COOH



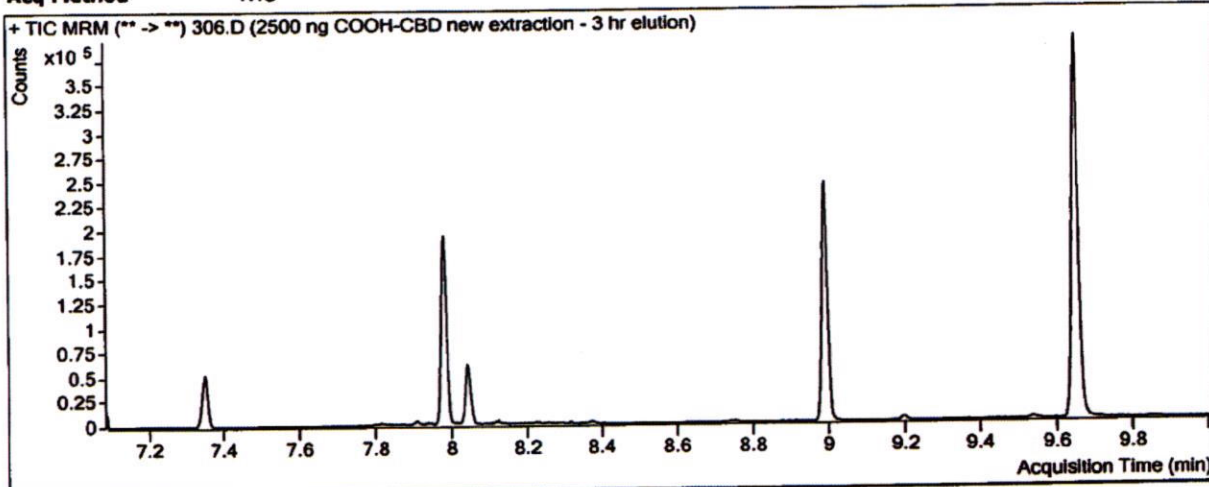
2022-QI-0024
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Quantitative Analysis Sample Report

Batch Info

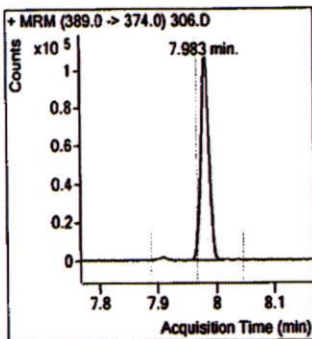
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Instrument Scooby Doo Sample 2500 ng COOH-CBD new extraction - 3 hr elution
 Acq. Time 2023-01-10 17:20 Data File 306.D
 Cal. Update 2023-01-05 14:12 Type Sample
 Report Time 2023-01-11 07:56 Position 5
 Acq Method THC

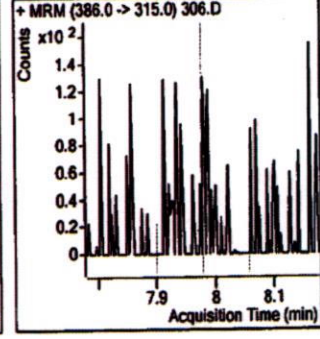
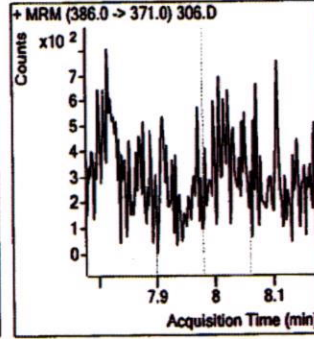
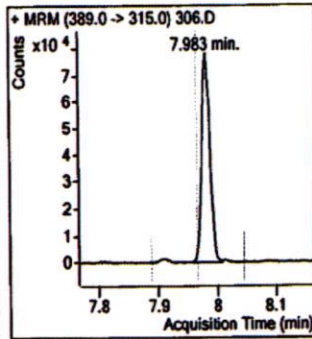


Compound	Concentration	Area	RT	Transition	Qual ratio	Range
d3-THC	ISTD	106630	7.983	389.0 -> 374.0		
		77127		389.0 -> 315.0	72.3	(55.8-83.7) +
THC	0.00 ng/ml		↓	386.0 -> 371.0		
d3-COOH	ISTD	328745	9.652	476.0 -> 358.2		
		165326		374.0 -> 292.0	50.3	(39.5-59.2) +
COOH	0.00 ng/ml		↓	473.0 -> 355.0		

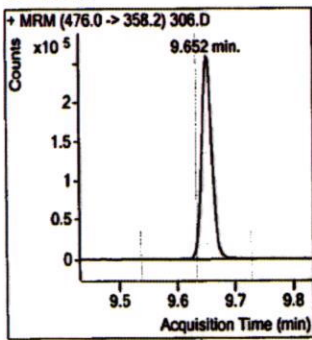
d3-THC



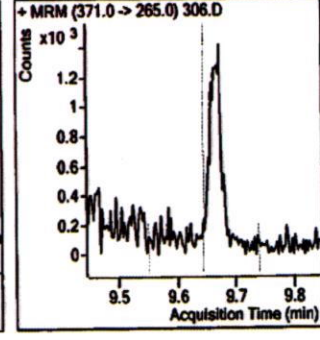
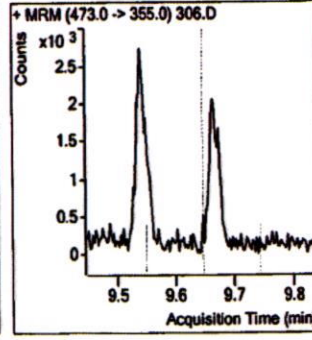
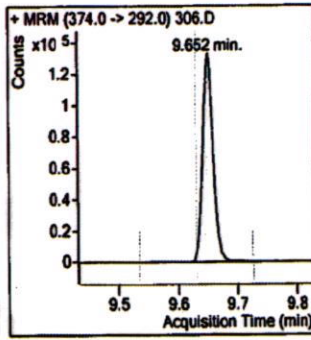
THC



d3-COOH



COOH



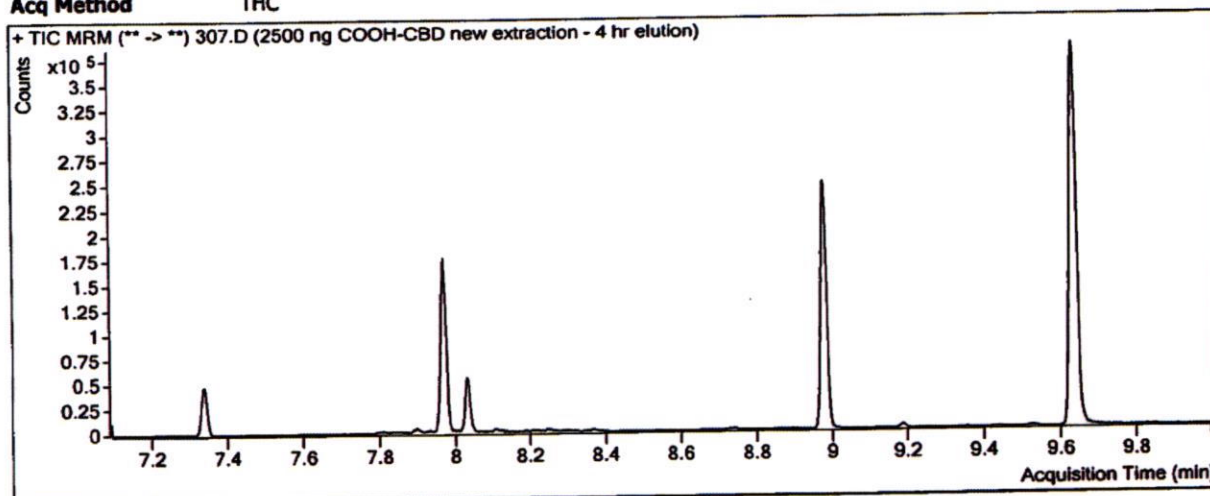
2022-QI-0024
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Quantitative Analysis Sample Report

Batch Info

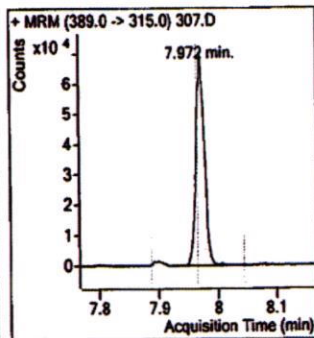
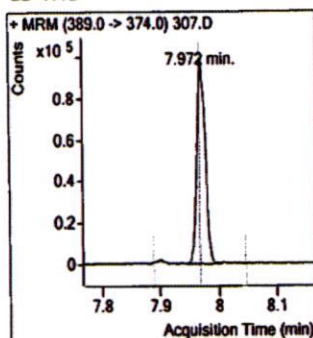
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Acq. Time 2023-01-10 17:34 **Data File** 307.D
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Report Time 2023-01-11 07:56 **Position** 6
Acq Method THC

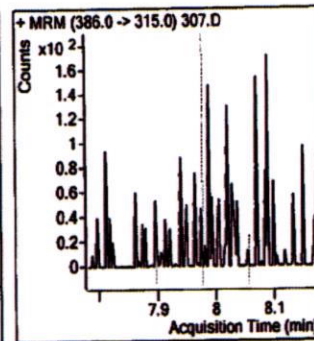
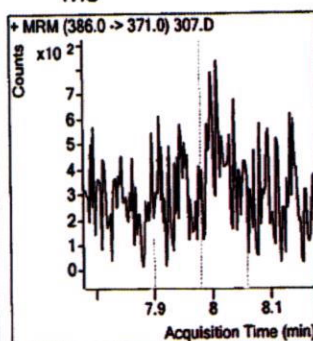


Compound	Concentration	Area	RT	Transition	Qual ratio	Range
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		72349		389.0 -> 315.0	73.6	(55.8-83.7) +
THC	0.00 ng/ml			386.0 -> 371.0		
d3-COOH	ISTD	333255	9.638	476.0 -> 358.2		
		170340		374.0 -> 292.0	51.1	(39.5-59.2) +
COOH	0.00 ng/ml			473.0 -> 355.0		

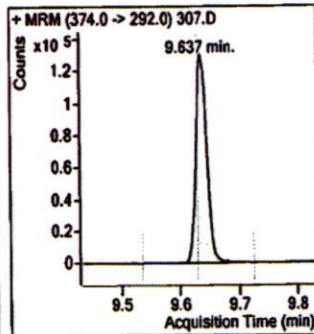
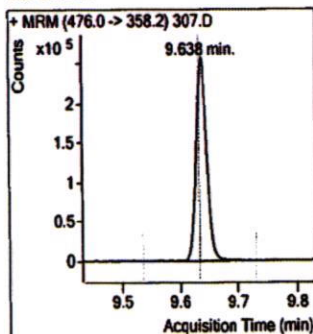
d3-THC



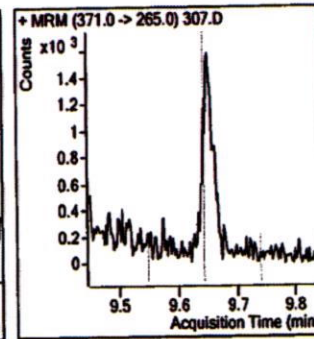
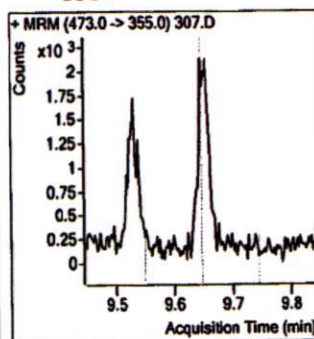
THC



d3-COOH



COOH



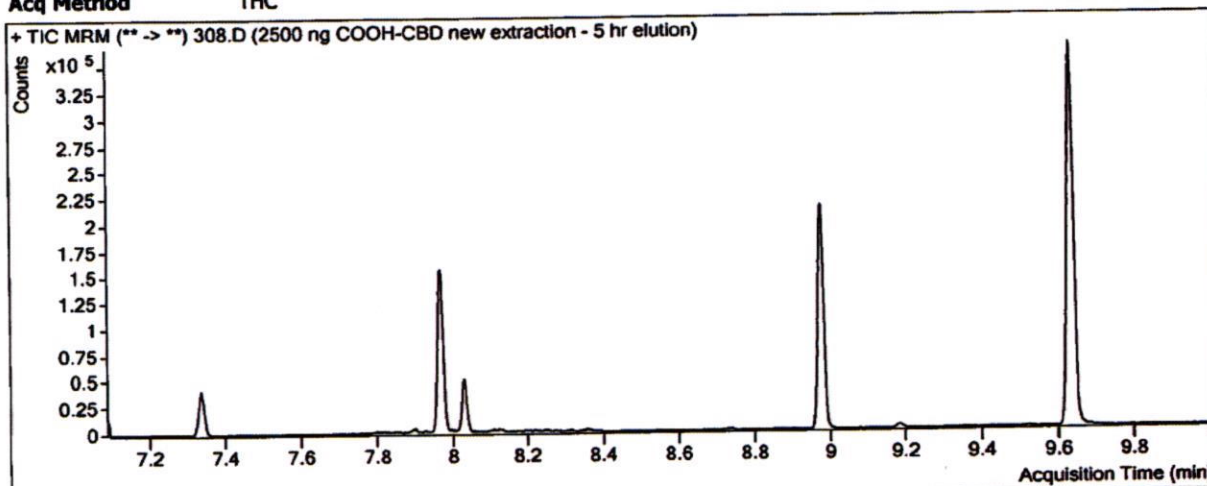
2022-01-0224
44

Quantitative Analysis Sample Report

Batch Info

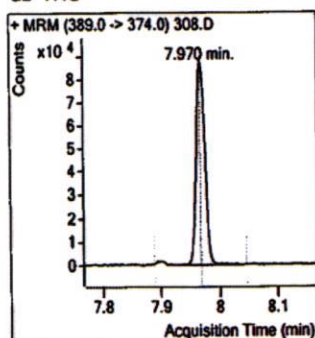
D:\MassHunter\Data\GMS\2022\urine val 122022\QuantResults\COOH 122022.batch.bin

Instrument	Scooby Doo	Sample	2500 ng COOH-CBD new extraction - 5 hr elution
Acq. Time	2023-01-10 17:47	Data File	308.D
Cal. Update	2023-01-05 14:12	Type	Sample
Report Time	2023-01-11 07:56	Position	7
Acq Method	THC		

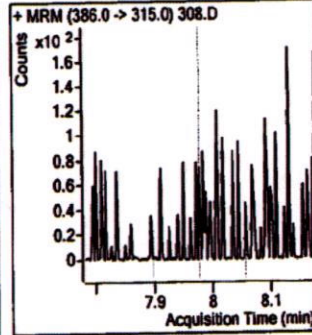
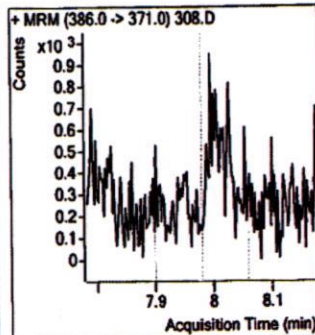
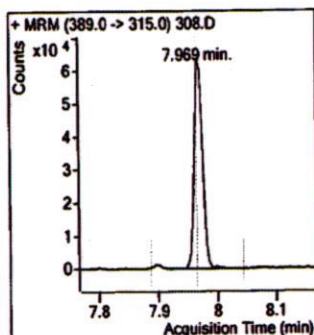


Compound	Concentration	Area	RT	Transition	Qual ratio	Range
d3-THC	ISTD	90707	7.970	389.0 -> 374.0		
		65561		389.0 -> 315.0	72.3	(55.8-83.7) +
THC	0.00 ng/ml		↓	386.0 -> 371.0		
d3-COOH	ISTD	297753	9.636	476.0 -> 358.2		
		153031		374.0 -> 292.0	51.4	(39.5-59.2) +
COOH	0.00 ng/ml		↓	473.0 -> 355.0		

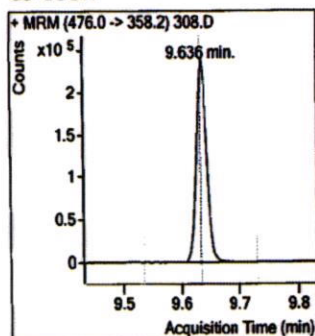
d3-THC



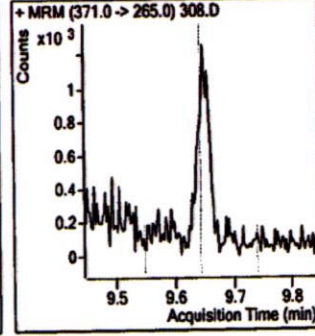
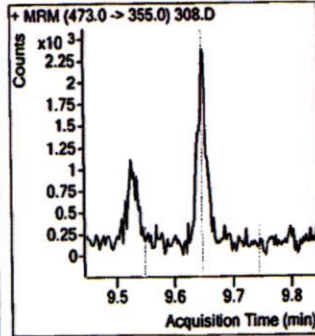
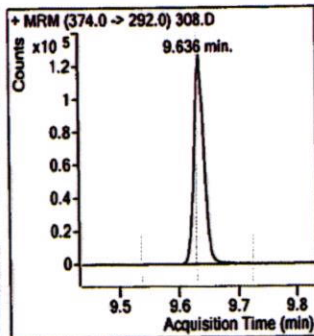
THC



d3-COOH



COOH



2022-QT-0024
45

Limit of Detection/Reportable Cutoff Study

The desired 5.0 ng/ml Limit of Detection (LOD) will be determined for Carboxy-THC in urine based on experimental findings.

As per ANSI/ASB standard 036, three samples analyzed at the 5.0 ng/ml concentration will be analyzed over three runs to demonstrate that all detection and identification criteria are met.

Results: see attached summary

Conclusion: All of the detection, identification, precision and bias criteria were met for Carboxy-THC at 5.0 ng/ml. The recommended cutoff is 10 ng/ml. Samples diluted to where the raw value is ≥ 5.0 ng/ml can be reported as positive. Samples diluted to where the raw value is < 5.0 ng/ml will need to be re-analyzed at an appropriate dilution or undiluted.

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Carryover will be determined for Carboxy-THC based on experimental findings. Acceptable carryover will be assessed as no area counts for the quantitative transition greater than $1/4^{\text{th}}$ the area counts for the 5.0 ng/ml cutoff calibrator in the negative sample analyzed immediately after. Carryover is further addressed in the method as case samples will have "solvent blanks" run between them.

As per ANSI/ASB standard 036, three samples prepared at 500, 1000, 2500, and 5000 ng/ml COOH-THC will be tested 3x with negative samples between each injection.

The data was collected processed: See attached summaries.

Results: No carryover was observed after triplicate analysis of 500ng/ml and 1000ng/ml. There was carryover observed after 2500ng/ml and 5000ng/ml injections. Carryover was acceptable at the 2500 ng/ml concentration as areas did not exceed $1/4$ the area of the 5 ng/ml cutoff.

2500 ng/ml	5000 ng/ml
Blank 1 area 3579	6256
Blank 2 area 3419	6949
Blank 3 area 3928	7195

$1/4$ area of 5ng/ml = 4832

Conclusion: Carboxy-THC was carryover free up to 1000 ng/ml. At 2500 ng/ml carryover was equivalent to approximately 1 ng/ml Carboxy-THC. At 5000 ng/ml carryover was equivalent to approximately 3 ng/ml Carboxy-THC.

To prevent carryover, it is recommended to dilute preliminary positives prior to analysis.

Case samples preceded by Carboxy-THC analyte with area $>10\times$ the 100 ng/ml Calibrator may be affected at or near the reportable level-10 ng/ml. Based on this study it is recommended to re-inject case samples with a quantitative value $< 20\text{ng/ml}$ when preceded by a high sample (as above). The re-injection and quant will be acceptable if preceded by an acceptable negative matrix blank (negative qc or a newly prepared unextracted negative qc with BSTFA derivatization).

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47

Extraction efficiency:

Solid phase extraction using Cerex Polychrom-THC 682-0353 columns was selected for urine Carboxy-THC analysis. The average of three 100 ng/ml unextracted standards and three 100 ng/ml extracted standards were compared to estimate the extraction efficiency. The Internal standard, d3-Carboxy-THC was added to all prior to dry down and derivatization with BSTFA. (see TOX-SOP-30)

The data was collected and processed: See attached printout/summary sheet

Results: Extraction efficiency was calculated to be **78%**.

2022-QI-0024
48



Phoenix Police Department
Laboratory Services Bureau

TOX-WS-55 Carboxy-THC in Urine by L-L GC-MS Confirmation Worksheet

Date:

1/5/2023

Page 1 of 1

Policy # 1932

Revision: 8

Effective: 2/3/2020 4:43:21 PM

Approved: Gallegos, Amanda

TOX-SOP-29

11-nor-delta-9-Carboxy-THC

15 ng/mL Calibrator	14
50 ng/mL Calibrator	53
100 ng/mL Calibrator	96
R ² Value	0.994
15 ng/mL Cutoff QC	LIL / SPE 15 / 14
25 ng/mL Hydrolysis QC	4L / SPE 21 / 23
Negative QC	ND

Reagents & Solvents:

2N NaOH 041321NI

3N HCl 100521JM

7:1 Hexane:Ethyl Acetate 032322JM

HFIP UCT 21700208

PFAA UCT 20180063

Ethyl acetate OmniSolv 61309

Calibrators:

1.0ng/μl 11nor-delta9-THC-COOH calibrator stock solution 102722RB

0.5ng/μl D₃-11nor-delta9-THC- COOH internal standard 090822JM

Controls:

Negative QC 011121DS

Hydrolysis QC from 1.0 ng/μl THC-COOH hydrolysis control 022521JM

Pipettes:

Hamilton 100μl # 087386

Hamilton 1000μl # 076734

Eppendorf 5000μl #2161637

Eppendorf # Q40425G

Sample Concentrator #206

Comments:

7-COOH-CBD Lot# Cerilliant FND04152105

2022-QT-0024
49

Calibration OK: ☒

Controls OK: ☒

Analyst:

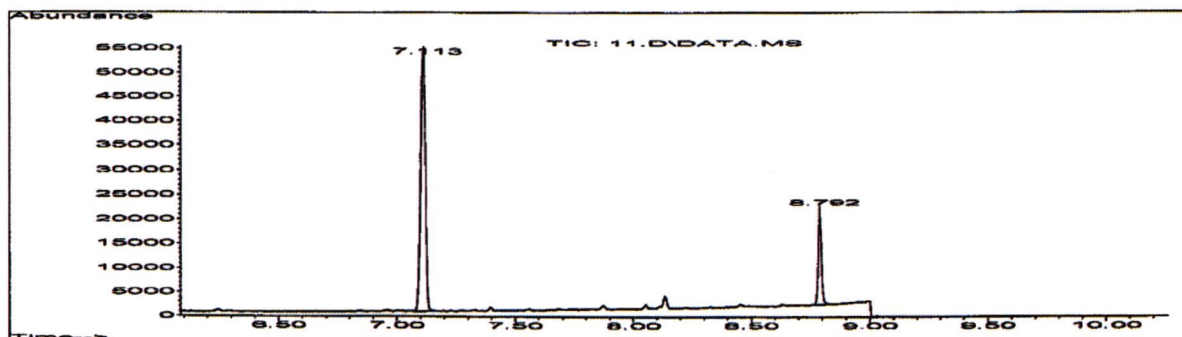
GMS
A4/106

Reviewer: ADH/A4/10/Date: 1/26/23

1/19
gms

File Name: 11.D
 Operator: gms
 Date Acquired: 1/5/2023 14:25
 Method: UTHC.M
 Sample Name: 15 ng/mL Cal COOH-THC L/L
 Comments: 0

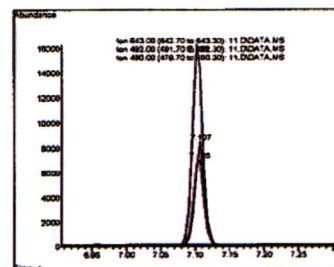
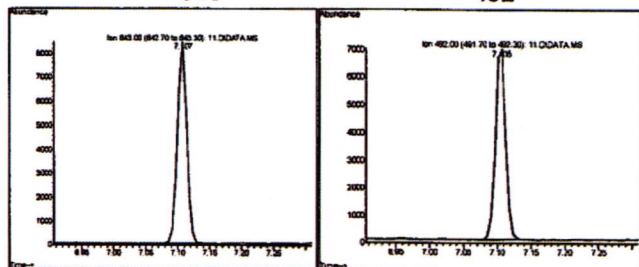
Vial: 9
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

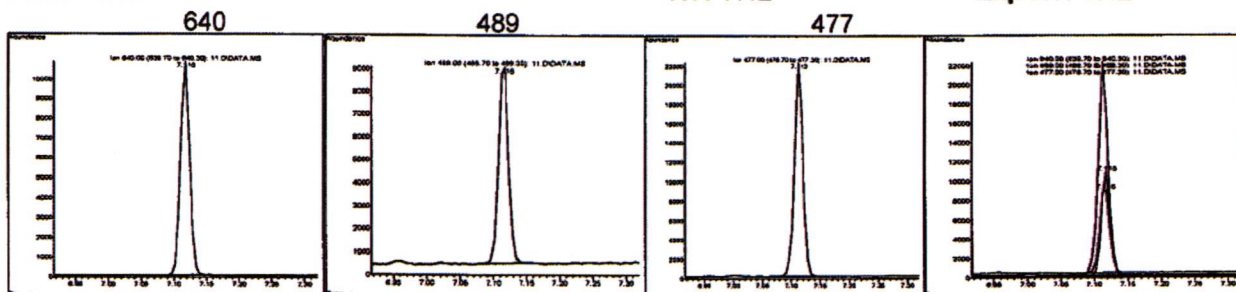
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	84953	7.11	643	100	70.48	105.72
		74219		492	87.36		
COOH-THC	14.53	104457	7.12	640	100	69.92	104.88
		90775		489	86.90		
		225665		477	216.04		

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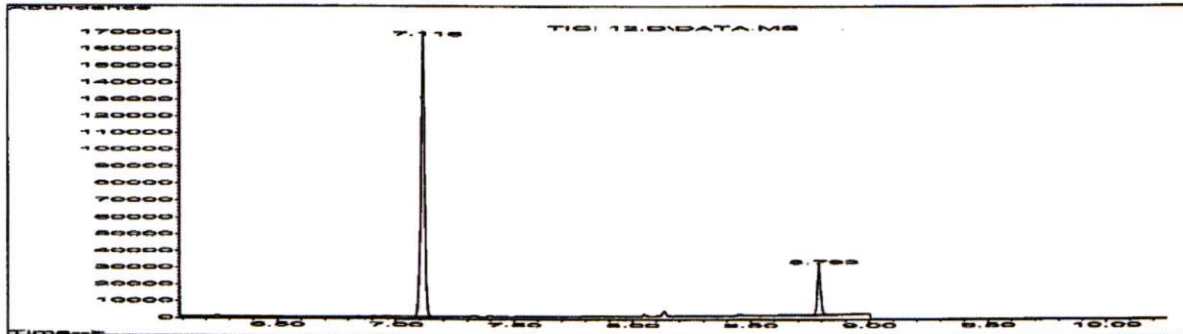
gms

2022-QI-0024
 50

gms

File Name: 12.D
 Operator: gms
 Date Acquired: 1/5/2023 14:37
 Method: UTHC.M
 Sample Name: 50 ng/mL Cal COOH-THC L/L
 Comments: 0

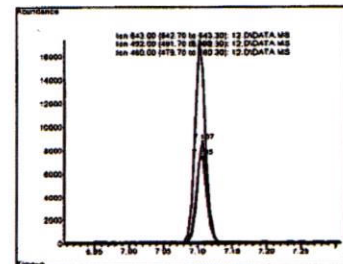
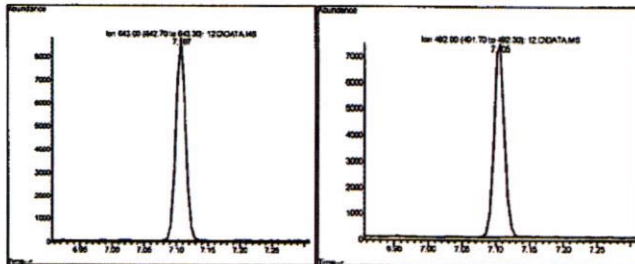
Vial: 10
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

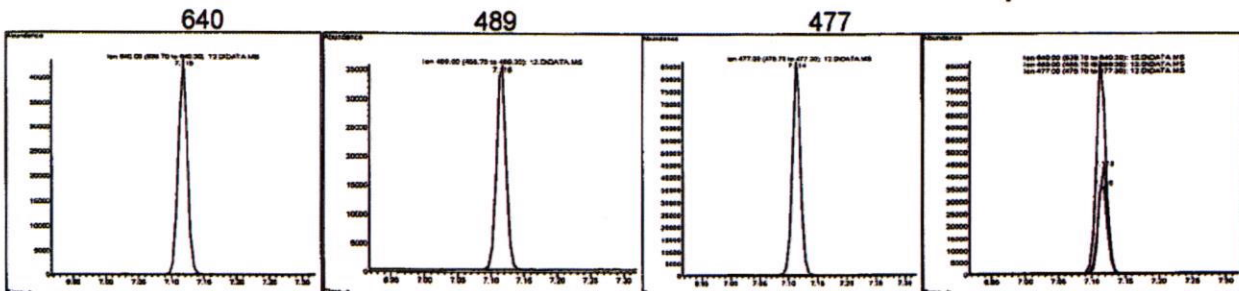
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	92396	7.11	643	100		
		81406		492	88.10	70.48	105.72
COOH-THC	53.53	418498	7.12	640	100		
		365808		489	87.41	69.92	104.88
		862260		477	206.04	164.8	247.2

+

+

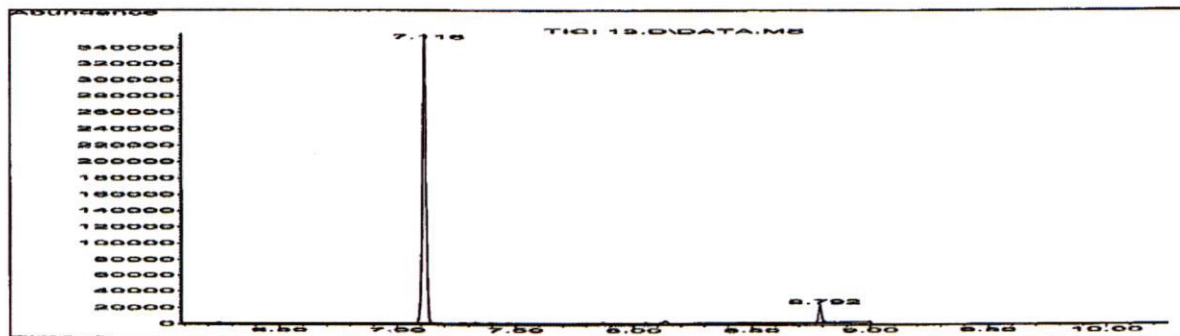
+

am

2022-QT-0024
 51

File Name: 13.D
 Operator: gms
 Date Acquired: 1/5/2023 14:49
 Method: UTHC.M
 Sample Name: 100 ng/mL Cal COOH-THC L/L
 Comments: 0

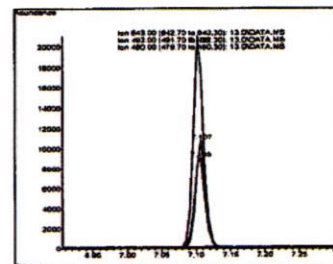
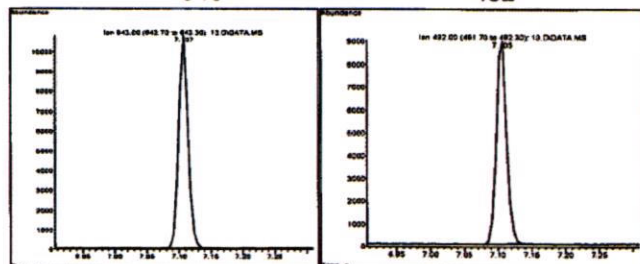
Vial: 11
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

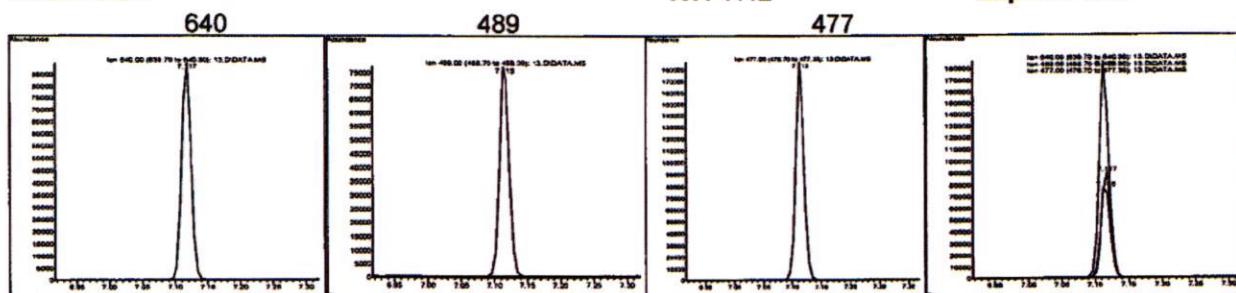
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	109857	7.11	643	100	70.48	105.72
		96957		492	88.26		
COOH-THC	96.85	900259	7.12	640	100	69.92	104.88
		798097		489	88.65		
		1839143		477	204.29		

+

+

+

gms

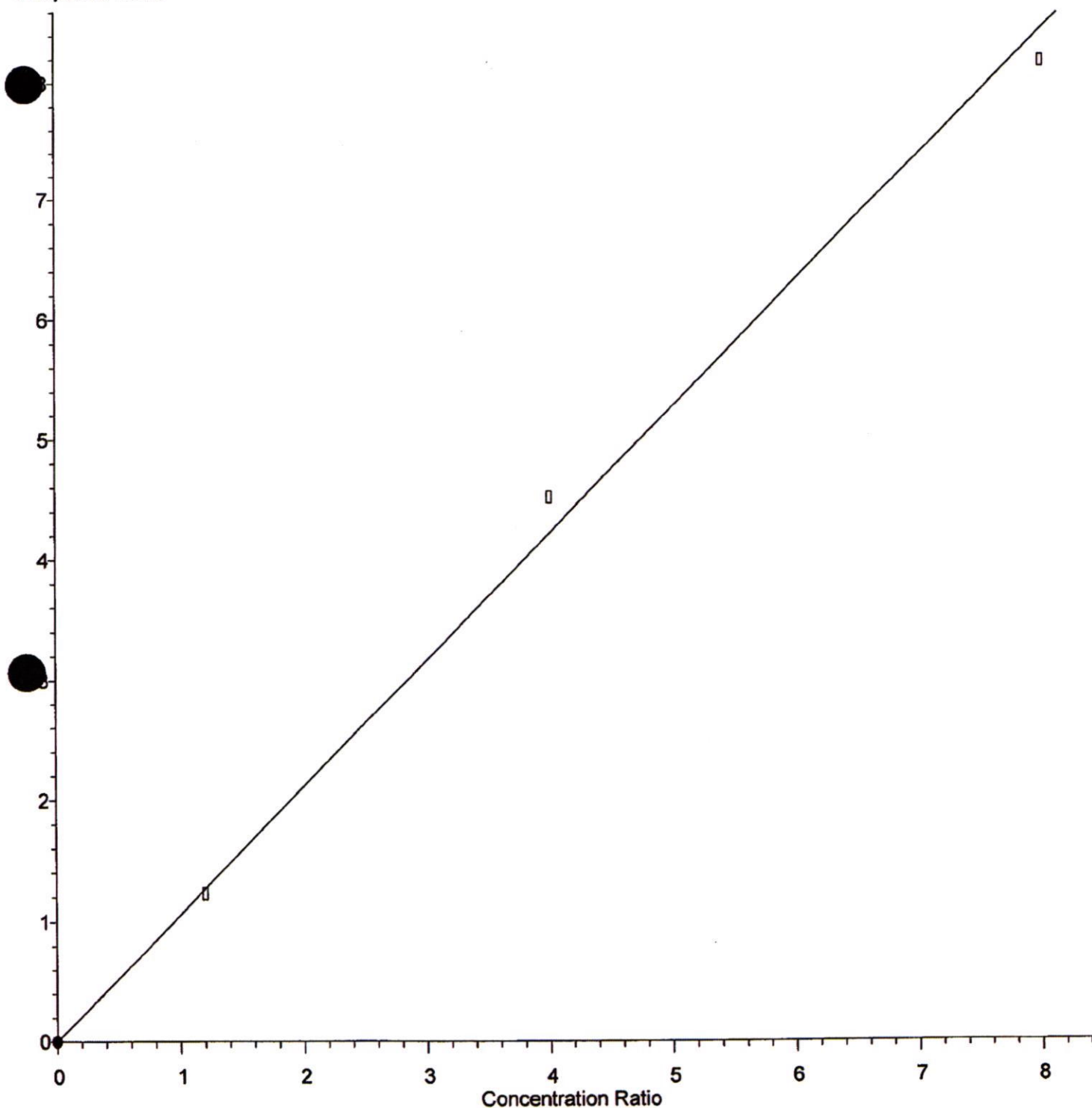
2022-Q1-0024

52

gms

COOH-THC

Response Ratio



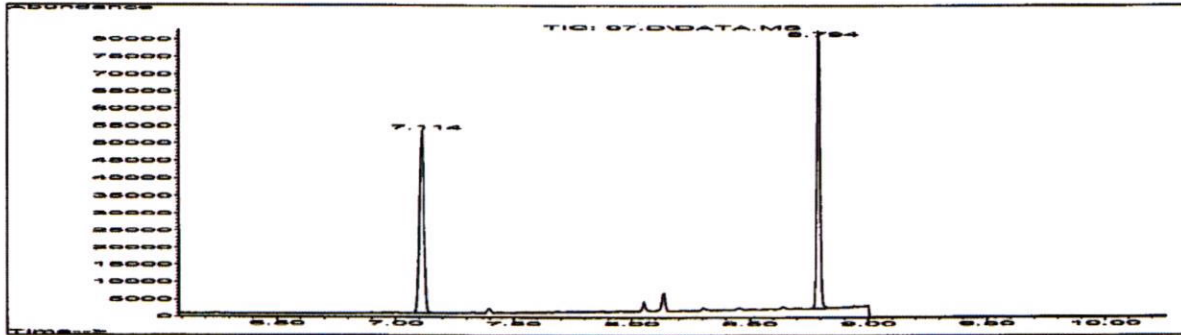
Concentration Ratio

2022-RF-0024
53

Resp Ratio = 1.06e+000 * Amt
Coef of Det (r^2) = 0.994871 Curve Fit: wlr(1/a)/(0,0)
Method Name: D:\MassHunter\GCMS\1\data\GMS\2022\COOHCB010522\2023-01-05-1221.b\UTHC.M
Calibration Table Last Updated: Thu Jan 05 15:03:09 2023

59ms

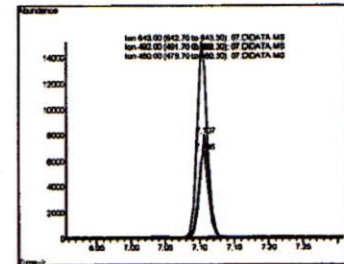
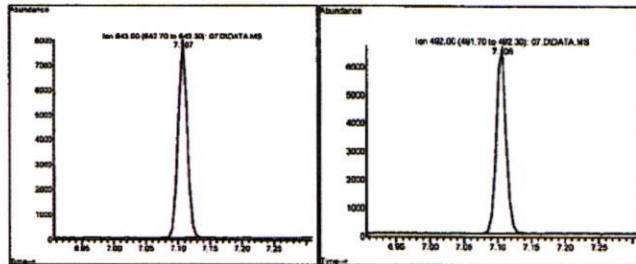
File Name: 07.D Vial: 6
 Operator: gms Multiplier: 1
 Date Acquired: 1/5/2023 13:37 Instrument: Mufasa
 Method: UTHC.M
 Sample Name: 15 ng/mL cutoff COOH-THC QC L/L extraction
 Comments: 0



d3-COOH THC (IS)
643

RT: 7.11

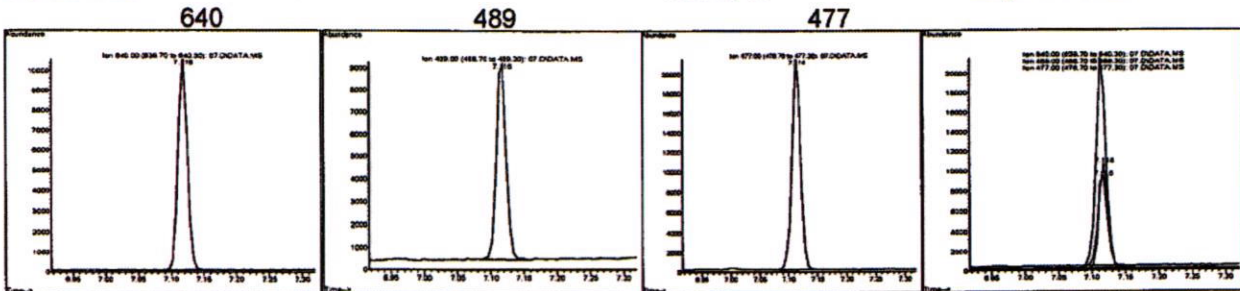
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	77670	7.11	643	100	70.48	105.72
		67502		492	86.91		
COOH-THC	15.65	102875	7.12	640	100	69.92	104.88
		92343		489	89.76		
		221895		477	215.69		

+

+

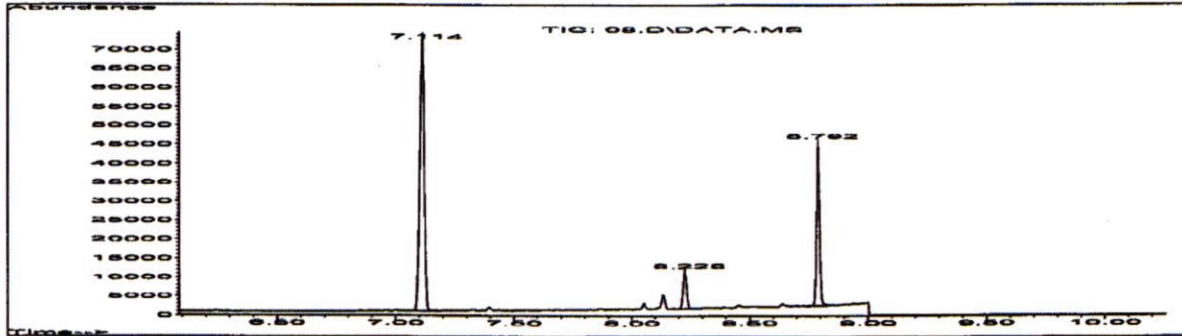
+

gms

2022-QE-0024
54

gms

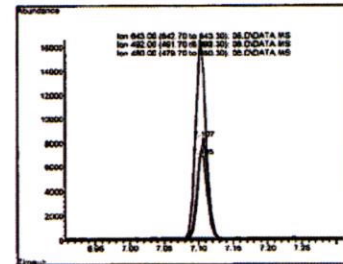
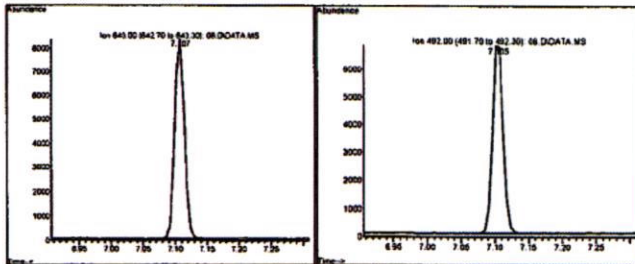
File Name: 08.D Vial: 7
 Operator: gms Multiplier: 1
 Date Acquired: 1/5/2023 13:49 Instrument: Mufasa
 Method: UTHC.M
 Sample Name: Hydrolysis Pos COOH-THC QC L/L extraction
 Comments: 0



d3-COOH THC (IS)
643

RT: 7.11

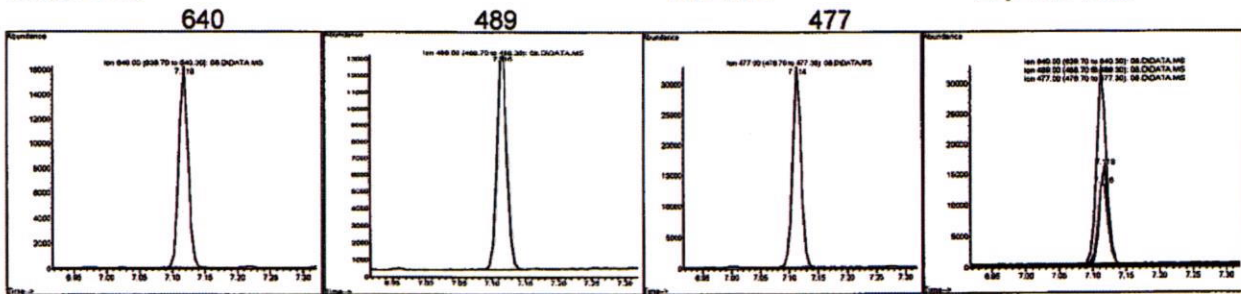
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	86848	7.11	643	100	70.48	105.72
		75120		492	86.50		
COOH-THC	21.19	155703	7.12	640	100	69.92	104.88
		135182		489	86.82		
		327143		477	210.11		

+

+

+

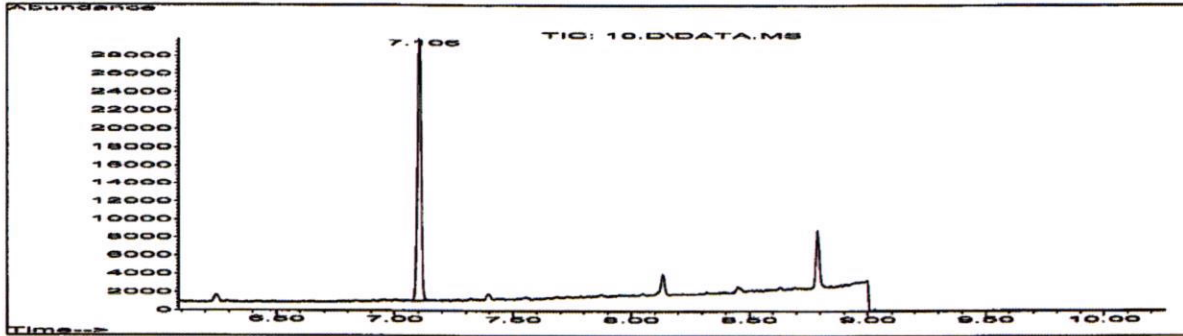
2022-KI-0024

55

gms

File Name: 10.D
 Operator: gms
 Date Acquired: 1/5/2023 14:13
 Method: UTHC.M
 Sample Name: neg qc
 Comments: 0

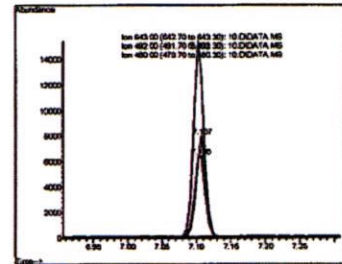
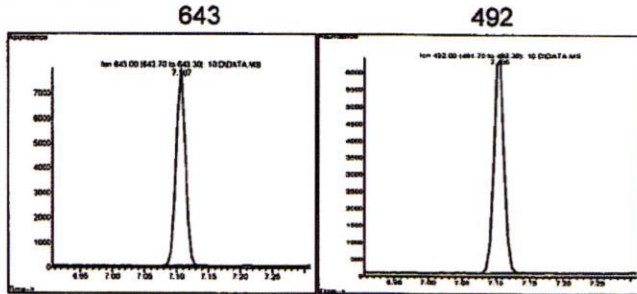
Vial: 8
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)

RT: 7.11

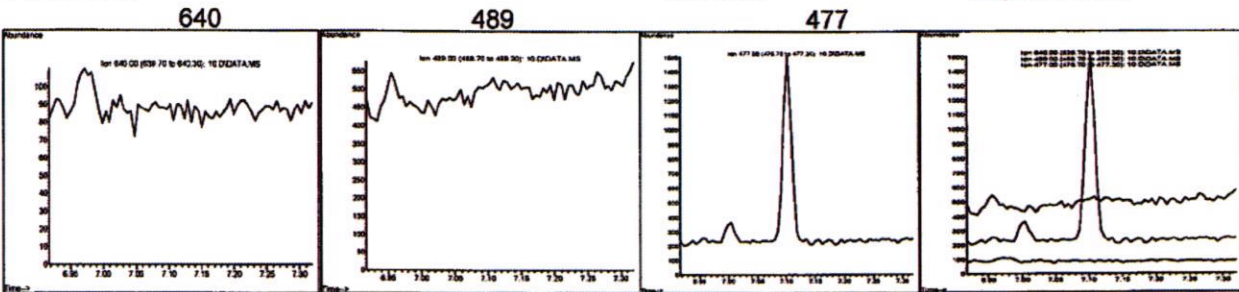
Exp RT: 7.11



COOH-THC

RT: 0.00

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	79770	7.11	643	100	70.48	105.72
		68441		492	85.80		
COOH-THC	0.00	0	0.00	640	100	69.92	104.88
		0		489	0.00		
		0		477	0.00		

0.98

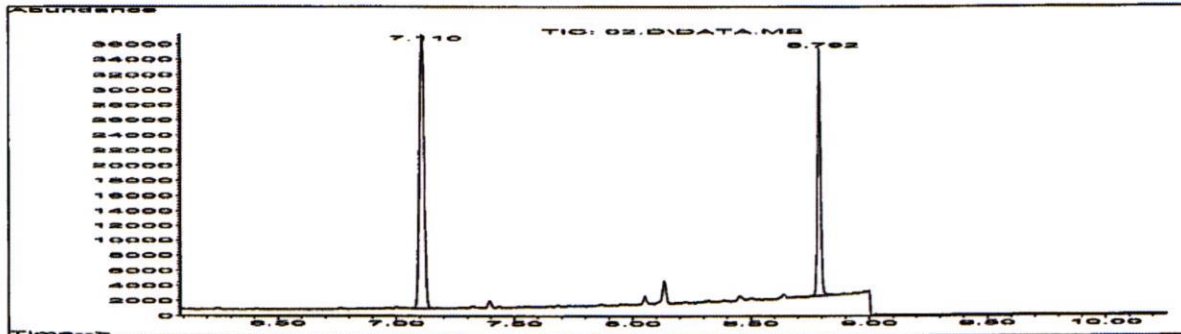
NO
gms

2022-QT-0024
56

sgme

File Name: 02.D
 Operator: gms
 Date Acquired: 1/5/2023 12:35
 Method: UTHC.M
 Sample Name: 15 ng COOH-CBD L/L extraction
 Comments: 0

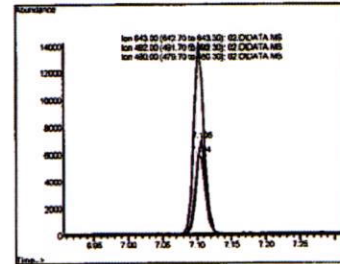
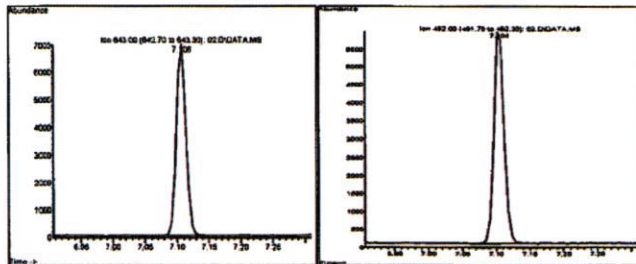
Vial: 2
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

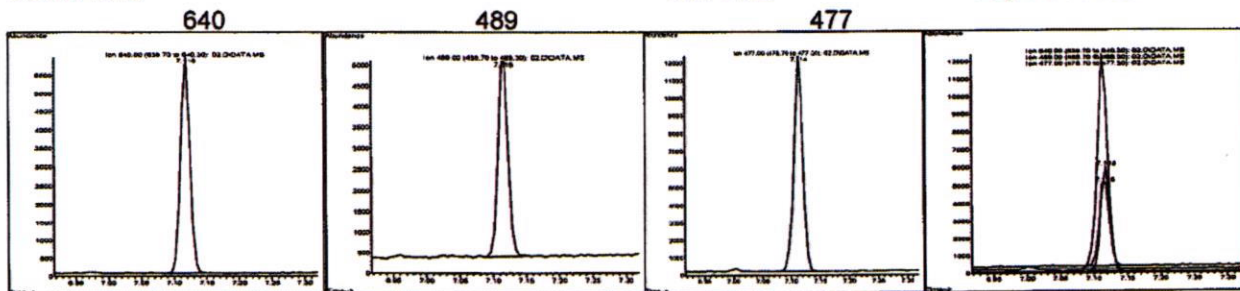
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12

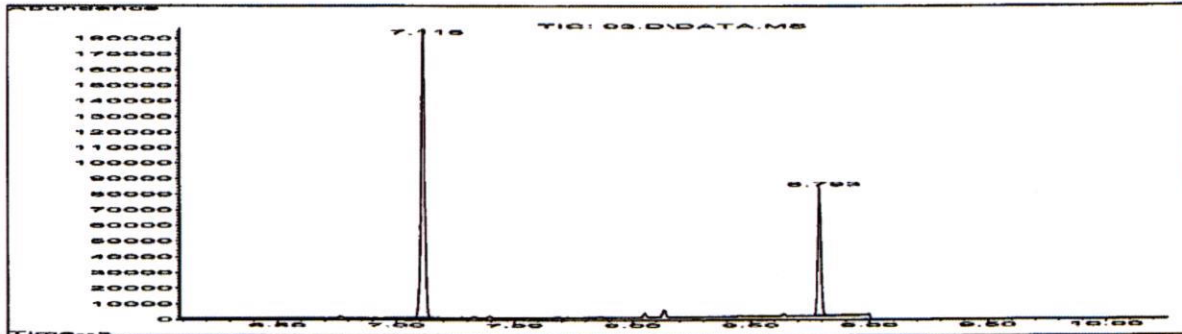


Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	72080	7.11	643	100	70.48	105.72	+
		63402		492	87.96			
COOH-THC	9.63	58713	7.12	640	100	69.92	104.88	+
		51803		489	88.23			
		131645		477	224.22			

2022-Q1-0024
 57

File Name: 03.D
 Operator: gms
 Date Acquired: 1/5/2023 12:47
 Method: UTHC.M
 Sample Name: 100 ng COOH-CBD L/L extraction
 Comments: 0

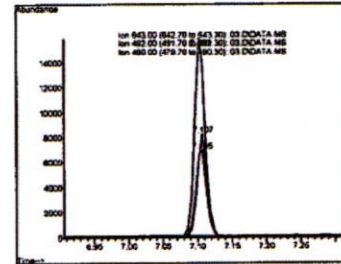
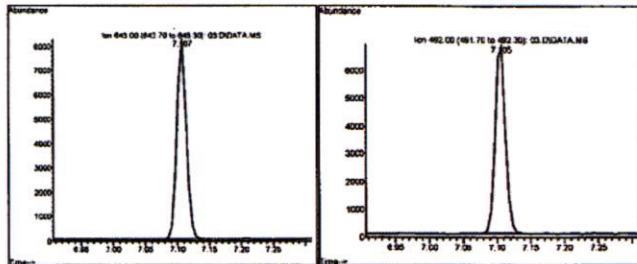
Vial: 3
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

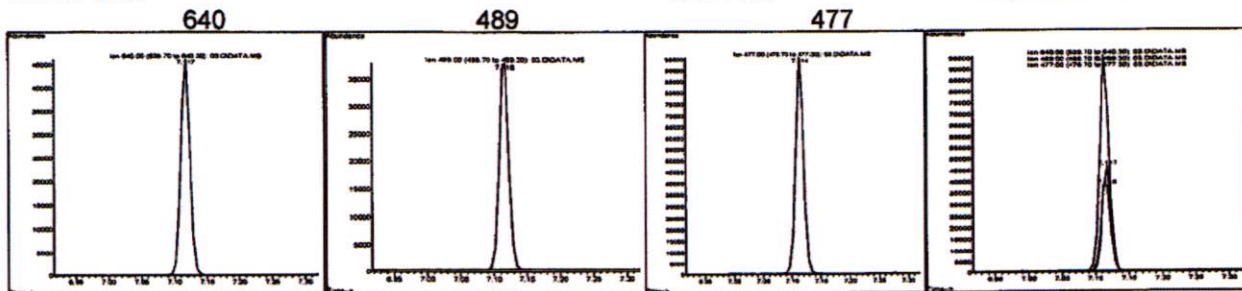
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



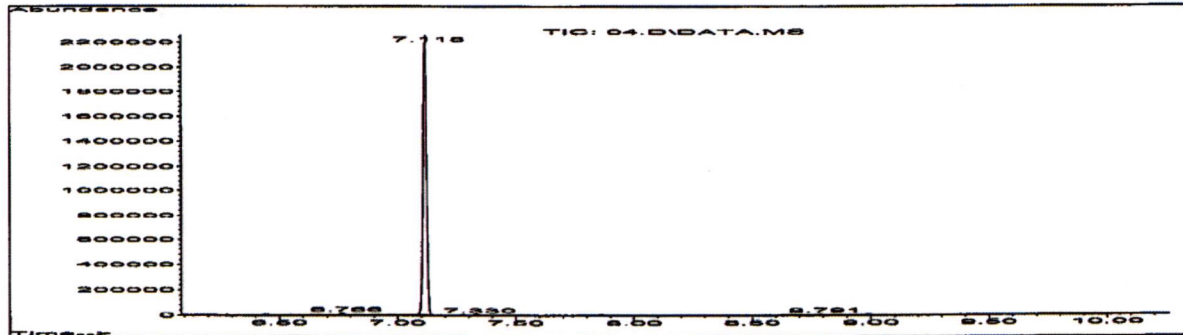
Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	84135	7.11	643	100	70.48	105.72	+
		73945		492	87.89			
COOH-THC	62.58	445548	7.12	640	100	69.92	104.88	+
		392731		489	88.15			
		932401		477	209.27			

2022-01-0024
 58

10gm

File Name: 04.D
 Operator: gms
 Date Acquired: 1/5/2023 12:59
 Method: UTHC.M
 Sample Name: 1000 ng COOH-CBD L/L extraction
 Comments: 0

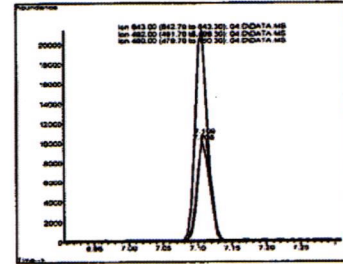
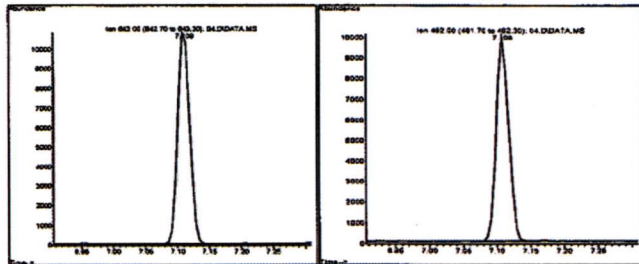
Vial: 4
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

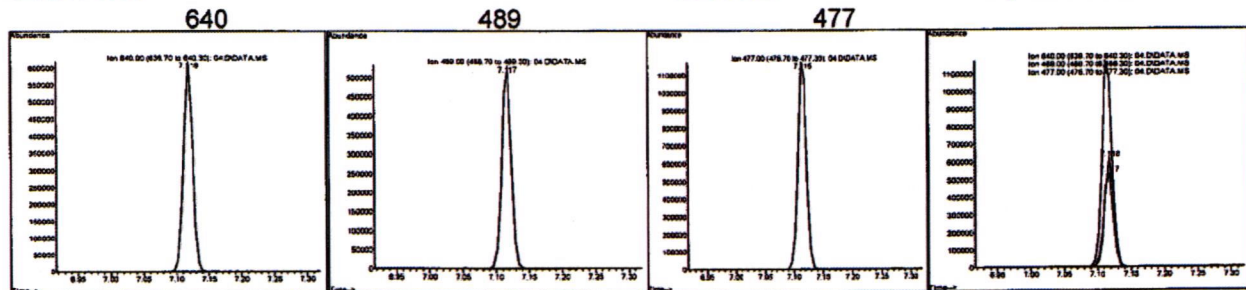
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	142283	7.11	643	100	70.48	105.72	+
		129771		492	91.21			
COOH-THC	496.68	5979877	7.12	640	100	69.92	104.88	+
		5328150		489	89.10			
		12137085		477	202.97			

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 59

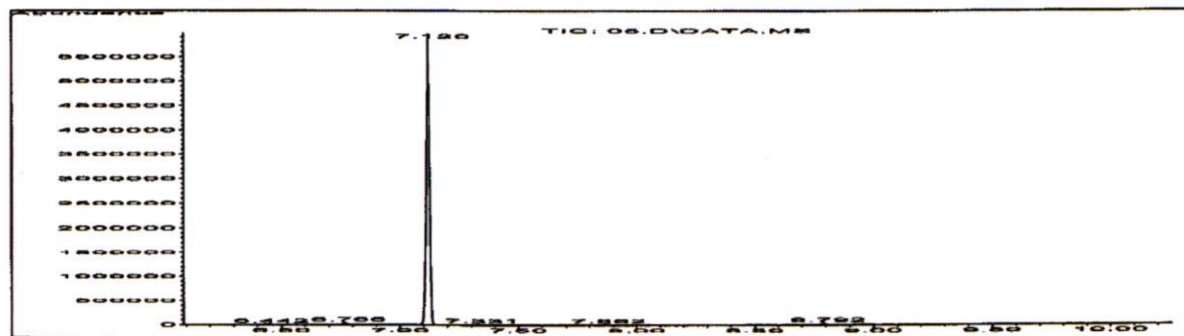
11gms

File Name: 05.D
 Operator: gms
 Date Acquired: 1/5/2023 13:11
 Method: UTHC.M
 Sample Name: 2500 ng COOH-CBD L/L extraction
 Comments: 0

Vial: 5

Multiplier: 1

Instrument: Mufasa



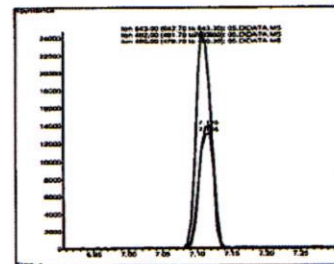
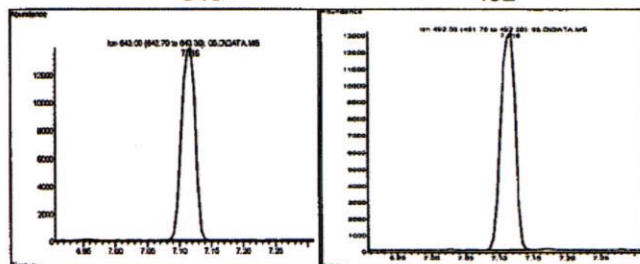
d3-COOH THC (IS)

RT: 7.12

Exp RT: 7.11

643

492



COOH-THC

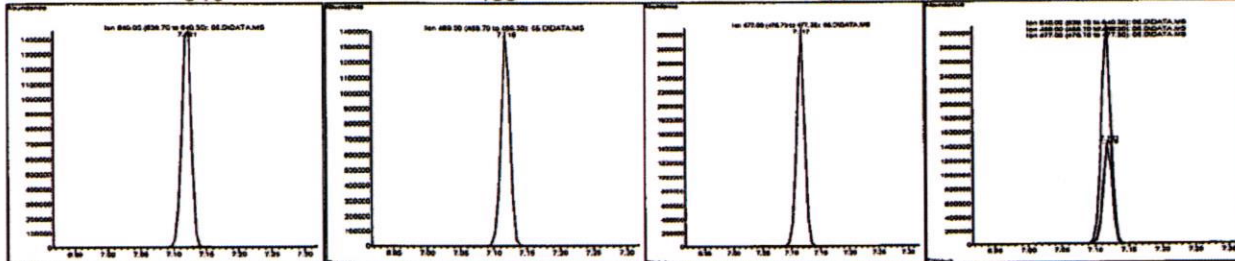
RT: 7.12

Exp RT: 7.12

640

489

477



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	210535	7.12	643	100	70.48	105.72	+
		198634		492	94.35			
COOH-THC	862.13	15358886	7.12	640	100	69.92	104.88	+
		13698279		489	89.19			
		30181211		477	196.51			

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 60

129m



Phoenix Police Department
Laboratory Services Bureau

TOX-WS-44 Carboxy-THC in Urine SPE GC-MS Confirmation Worksheet

Date: 1/5/23

Page 1 of 1

Policy # 1928

Revision: 8

Effective: 2/3/2020 4:30:53 PM

Approved: Gallegos, Amanda

TOX-SOP-30

11-nor-delta-9-Carboxy-THC

15 ng/mL Calibrator

50 ng/mL Calibrator

100 ng/mL Calibrator

R² Value

Negative QC

15 ng/mL Cutoff QC

25 ng/mL Glucuronide Positive QC

used 4L calibration

SPE column

Cerex Polychrom THC 682-0353C 21100242

Reagents & Solvents:

10N Sodium Hydroxide 041321JM

Acetonitrile Aldrich SHBL9101

Ammonium Hydroxide Fisher 197470

Methanol Fisher 216552

Ethyl Acetate Omni Solv 61309

Hexane Fisher 213840

Glacial Acetic Acid Fisher 161397

HFIPA UCT 21700208

PFPA UCT 20180063

Calibrators:

1.0ng/μl 11nor-delta9-THC-COOH calibrator stock solution 102722RB

0.5ng/μl D₃-11nor-delta9-THC-COOH internal standard 090822JM

Controls:

Negative QC 011121DS

Positive COOH-THC Glucuronide Control 1.0 ng/ul 022521JM

Pipettes:

Hamilton 100μl #087386

Hamilton 1000μl #076734

Eppendorf 5000μl #2161637

Sample Concentrator #206

Comments:

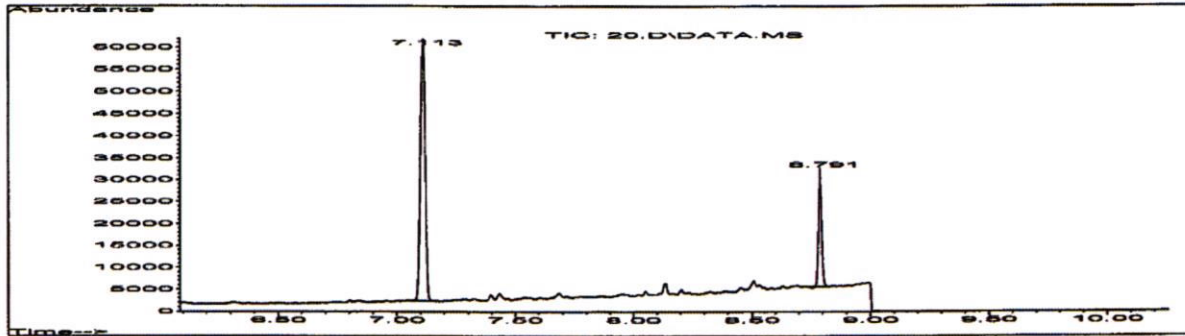
7-COOH-CBD Cerilliant #FN04152105

*2022-QI-0024
61*

Calibration OK: ✓ Controls OK: ✓ Analyst: GMS Reviewer: AMH AMH Date: 1/26/23

139m

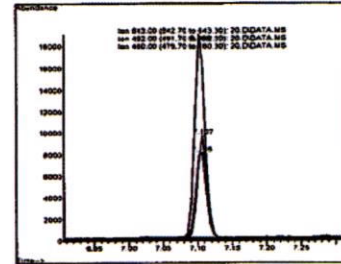
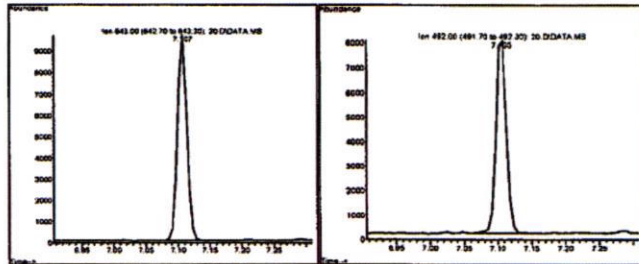
File Name: 20.D Vial: 16
 Operator: gms Multiplier: 1
 Date Acquired: 1/5/2023 16:13 Instrument: Mufasa
 Method: UTHC.M
 Sample Name: 15 ng/mL cutoff COOH-THC QC SPE extraction
 Comments: 0



d3-COOH THC (IS)
643

RT: 7.11

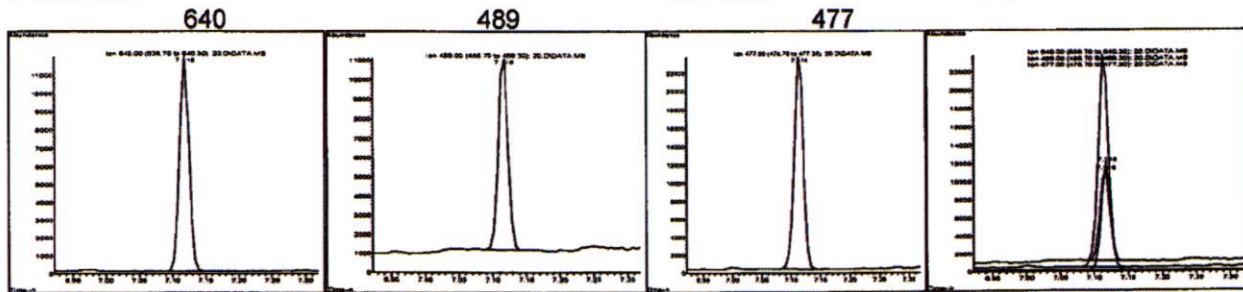
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	97922	7.11	643	100	70.48	105.72
		86618		492	88.46		
COOH-THC	14.27	118213	7.12	640	100	69.92	104.88
		102240		489	86.49		
		251261		477	212.55		

+

+

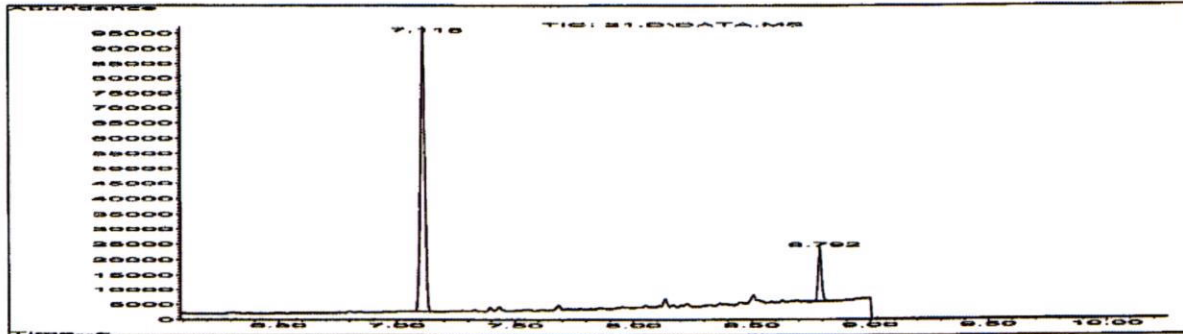
+

gms

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140gm

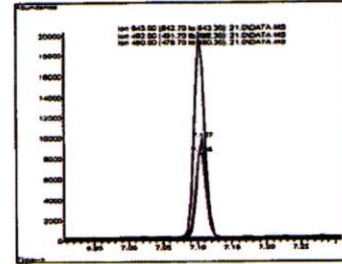
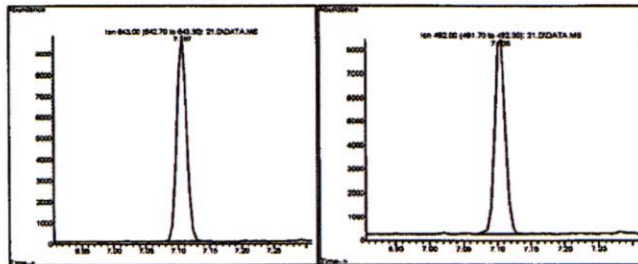
File Name: 21.D Vial: 17
 Operator: gms Multiplier: 1
 Date Acquired: 1/5/2023 16:25 Instrument: Mufasa
 Method: UTHC.M
 Sample Name: Hydrolysis Pos COOH-THC QC SPE extraction
 Comments: 0



d3-COOH THC (IS)
643

RT: 7.11

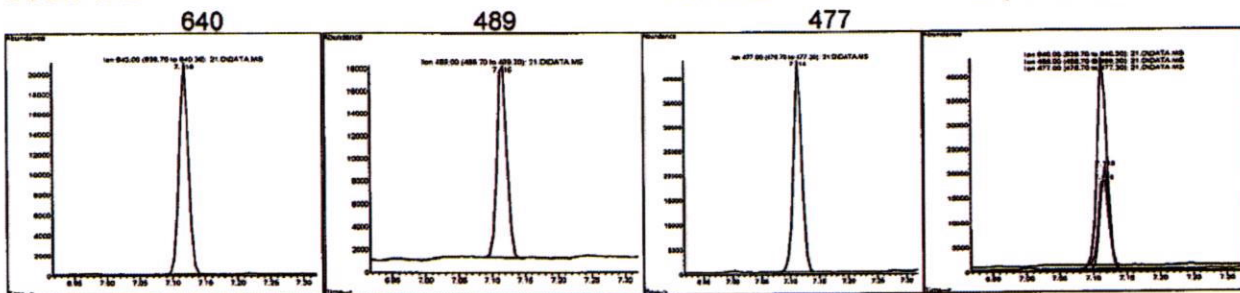
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit
d3-COOH THC (IS)	12.50	103470	7.11	643	100	70.48	105.72
		93005		492	89.89		
COOH-THC	23.61	206686	7.12	640	100	69.92	104.88
		180457		489	87.31		
		439943		477	212.86		

+

gms

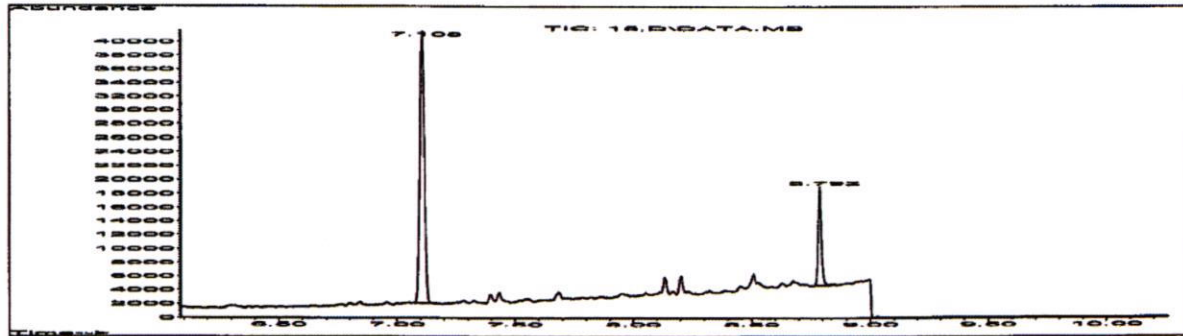
2022-QI-0024

63

15gms

File Name: 15.D
 Operator: gms
 Date Acquired: 1/5/2023 15:13
 Method: UTHC.M
 Sample Name: 15 ng COOH-CBD SPE extraction
 Comments: 0

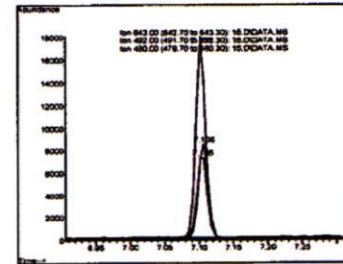
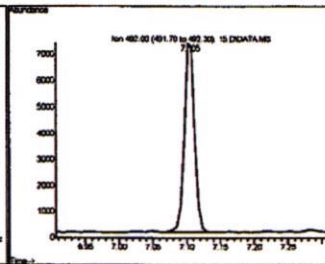
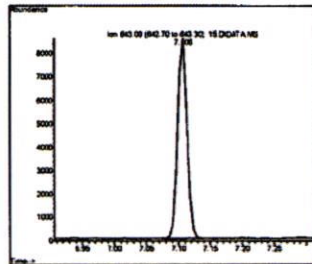
Vial: 12
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

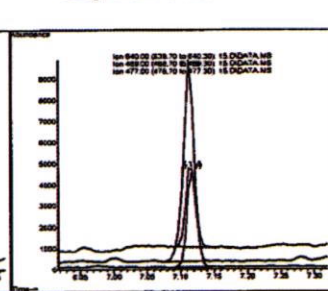
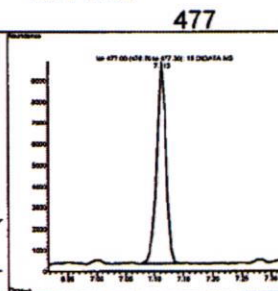
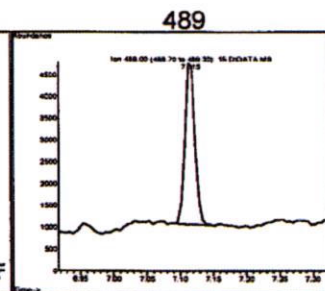
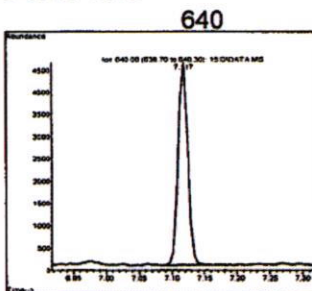
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12

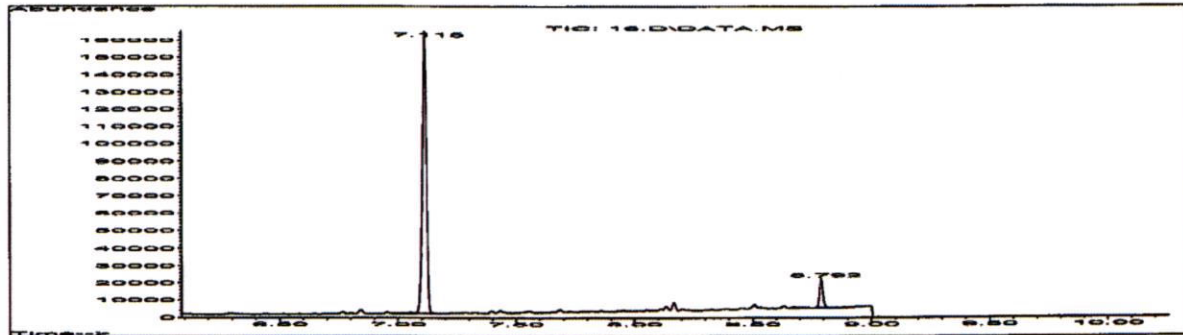


Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	87149	7.11	643	100			
		78251		492	89.79	70.48	105.72	+
COOH-THC	6.25	46065	7.12	640	100			
		39316		489	85.35	69.92	104.88	+
		105769		477	229.61	164.8	247.2	+

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 64

File Name: 16.D
 Operator: gms
 Date Acquired: 1/5/2023 15:25
 Method: UTHC.M
 Sample Name: 100 ng COOH-CBD SPE extraction
 Comments: 0

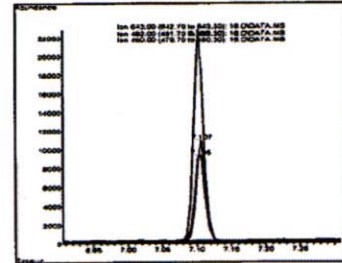
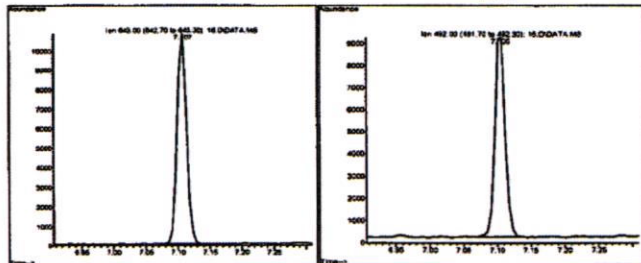
Vial: 13
 Multiplier: 1
 Instrument: Mufasa



d3-COOH THC (IS)
 643

RT: 7.11

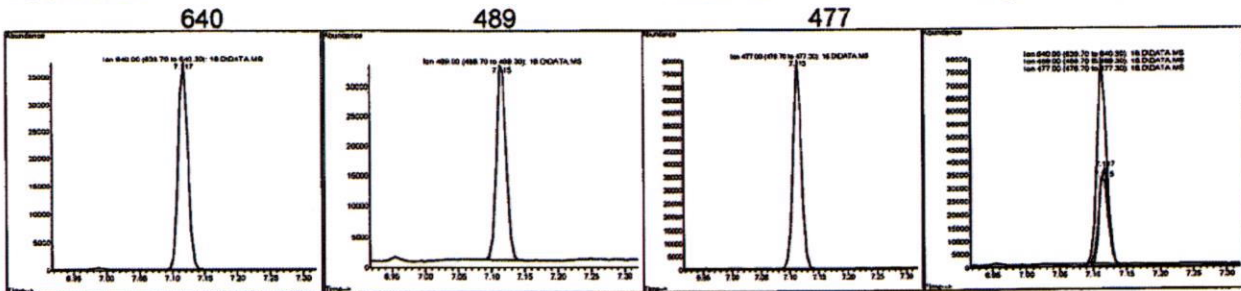
Exp RT: 7.11



COOH-THC

RT: 7.12

Exp RT: 7.12



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	110675	7.11	643	100			
		98684		492	89.17	70.48	105.72	+
COOH-THC	40.16	376125	7.12	640	100			
		334052		489	88.81	69.92	104.88	+
		794873		477	211.33	164.8	247.2	+

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 65

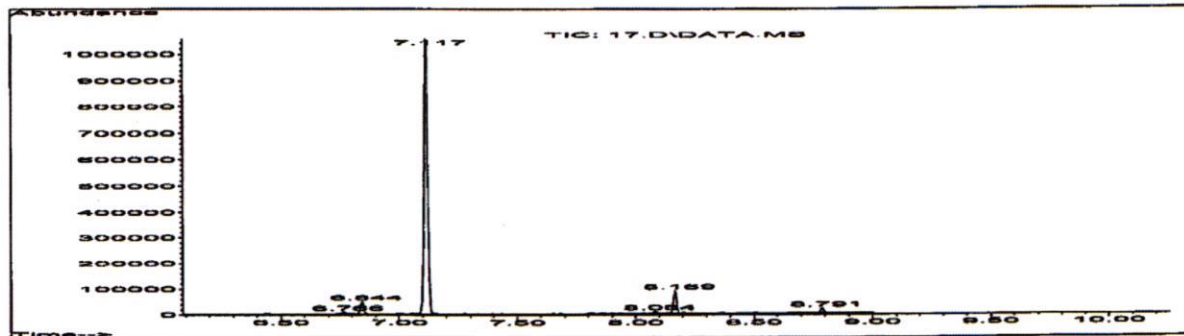
17gms

File Name: 17.D
 Operator: gms
 Date Acquired: 1/5/2023 15:37
 Method: UTHC.M
 Sample Name: 1000 ng COOH-CBD SPE extraction
 Comments: 0

Vial: 14

Multiplier: 1

Instrument: Mufasa



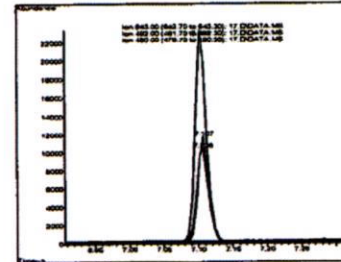
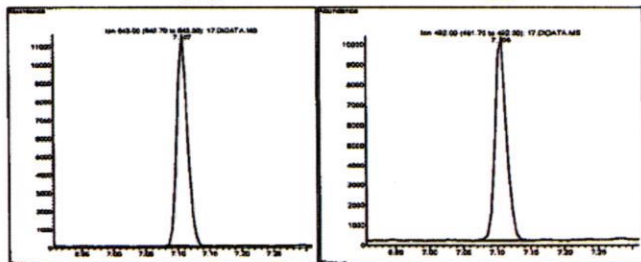
d3-COOH THC (IS)

RT: 7.11

Exp RT: 7.11

643

492



COOH-THC

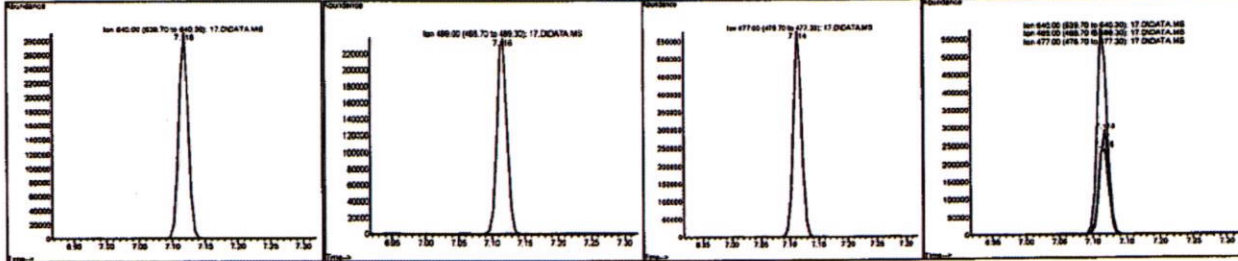
RT: 7.12

Exp RT: 7.12

640

489

477



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	133625	7.11	643	100	70.48	105.72	+
		122323		492	91.54			
COOH-THC	257.91	2916193	7.12	640	100	69.92	104.88	+
		2552840		489	87.54			
		5907020		477	202.56			

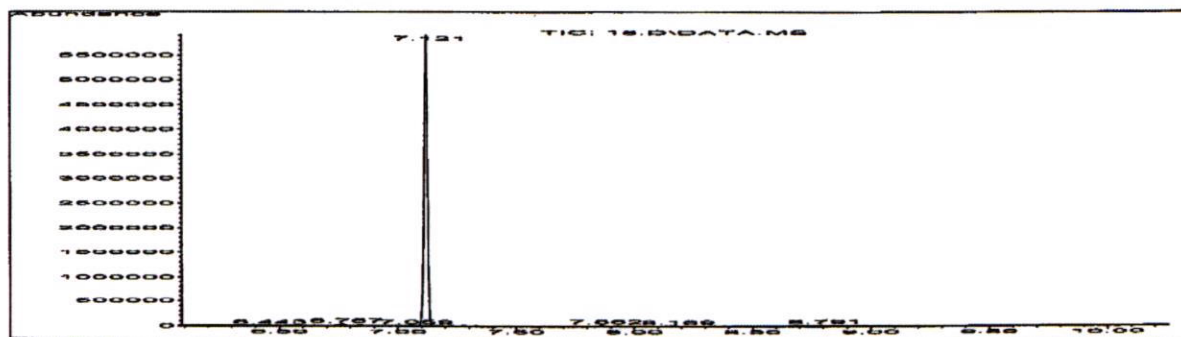
2022-Q5-0024
 66

File Name: 18.D
 Operator: gms
 Date Acquired: 1/5/2023 15:49
 Method: UTHC.M
 Sample Name: 2500 ng COOH-CBD SPE extraction
 Comments: 0

Vial: 15

Multiplier: 1

Instrument: Mufasa



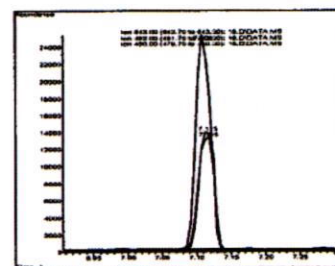
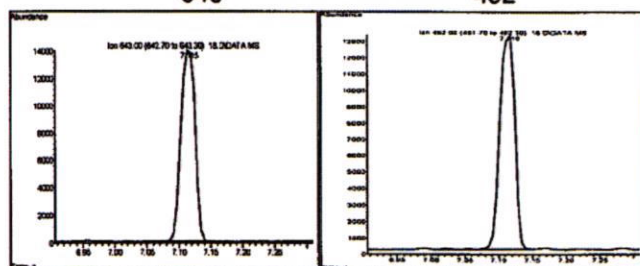
d3-COOH THC (IS)

RT: 7.12

Exp RT: 7.11

643

492



COOH-THC

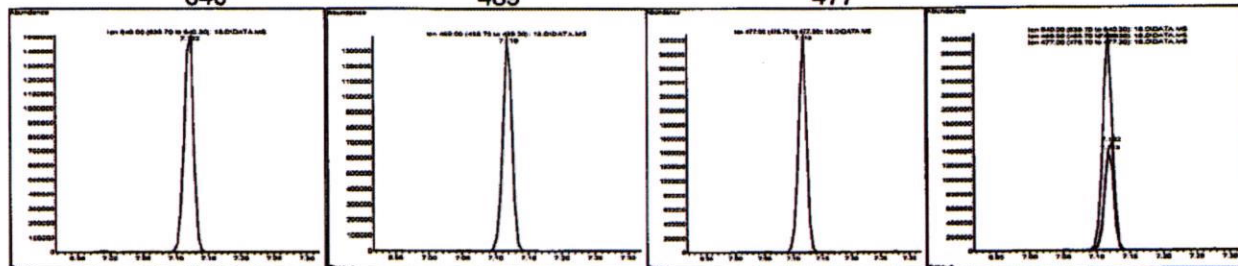
RT: 7.12

Exp RT: 7.12

640

489

477



Compound	Amount	Area	RT:	M/Z	Ratio	Lower Limit	Upper Limit	
d3-COOH THC (IS)	12.50	216660	7.12	643	100	70.48	105.72	+
		205613		492	94.90			
COOH-THC	838.24	15367710	7.12	640	100	69.92	104.88	+
		13734697		489	89.37			
		29978503		477	195.07			

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 67

199m

* Same list of IR#s as previously disclosed with additional case information:

- EMIT screening result, estimated confirmation result, dilution factor used for confirmation analysis
- rows are color coded based on offense type (orange-DUI, blue-violent crimes/child abuse, green-DFSA (drug facilitated sexual assault))
- text color coded in blue if corresponding positive result in blood for THC and/or metabolite
- text color coded in purple if low screening result (≤ 50 ng/mL)

ADJ A710 3/7/23

Offense Type*	IR#	Req#	Barcode#	Result Date	Blood Received	EMIT	conf	dil	Other Drugs
ACC w/ F	202200000138385	0001	51001191785	02/01/2022	YESx2-THC/COOH	>100	370	4	
ACC w/ F	202200000977667	0001	51001275759	07/27/2022	YESx2-THC/OH/COOH, Bromazepam	>100	2200	10	Bromazepam
DUI	202100001982685	0002	51001175048	01/20/2022	QNS	78	780	4	Cocaine & Metabolite, Methadone & Metabolite, Alprazolam & Metabolite
DUI	202200000020961	0001	51001180942	01/20/2022	no	79	140	4	Clonazepam Metabolite, Clonazepam Metabolite, Etizolam & Metabolite, Alprazolam & Metabolite, Flualprazolam & Metabolite, Methadone & Metabolite, Methorphan, Pheniramine, Citalopram, Benzoylcegonine (Cocaine Metabolite)
DUI	202200000273640	0002	51001204356	03/11/2022	no	89	36		Ethanol
DUI	202200000558875	0002	51001233405	05/17/2022	no	66	21		Etizolam & Metabolite, Flualprazolam & Metabolite, Methadone
DUI	202200001001913	0003	51001277793	07/27/2022	no	67	370	4	Ethanol, Cocaine & Metabolites
DUI	202200001065793	0001	51001284218	08/19/2022	no	93	58		Fentanyl & Metabolite, Methamphetamine
DUI	202200001083478	0003	51001285811	07/27/2022	YES*no THC(Randox@5), Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam	76	23		Fentanyl, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Methadone & Metabolite
DUI	202200001190141	0001	51001296383	08/19/2022	no	70	1300	10	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Cocaine & Metabolite
DUI	202200001362871	0003	51001312982	10/27/2022	YESx2-THC/OH/COOH, Methamphetamine	>100	490	10	Methamphetamine, Cetirizine
DUI	202200001427685	0001	51001318443	10/27/2022	no	68	22		Fentanyl & Metabolite, Methadone & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	202200001455824	0001	51001321330	10/27/2022	no	89	3400	10	Methamphetamine, Amphetamine
DUI	202200001472467	0001	51001322962	10/27/2022	no	79	230	2	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
Homicide	202200000369402	0008	51001213928	04/14/2022	no	88	180	4	Diphenhydramine
Homicide	202200001109983	0010	51001288373	08/19/2022	no	90	430	10	PCP, Methamphetamine
Homicide	202200001218177	0005	51001299176	09/21/2022	YES-THC/COOH, Propofol, Fentanyl, Ketamine & Metabolite	>100	320	4	Propofol, Ketamine & Metabolite
DFSA	202200001452996	0001	51001328585	10/27/2022	no (>24h)	87	240	2	Diphenhydramine
DFSA	202100001815284	0003	51001177413	01/20/2022	YES-0.000	66	76	4	Methamphetamine, Amphetamine, Fentanyl, Diphenhydramine
DFSA	202100001940337	0003	51001177455	01/20/2022	YES-0.000 (>12h)	44	23		
DFSA	202100001971285	0003	51001181785	01/20/2022	YES-0.000 (>12h)	99	700	10	Fentanyl, Morphine, Gabapentin, Fluoxetine, Cetirizine
DFSA	202100001978858	0003	51001177448	01/20/2022	YES-0.000	87	32	2	
DFSA	202100001996552	0004	51001177405	01/20/2022	YES-0.000 (>12h)	88	93		
DFSA	202100002000403	0003	51001177500	01/20/2022	YES-0.000	92	86	2	
DFSA	202100002018777	0003	51001179989	01/20/2022	no	86	320	4	Methamphetamine, Amphetamine, Fentanyl Metabolite
DFSA	202100002018807	0001	51001180652	01/20/2022	no (>24h)	85	2800	10	Methamphetamine, Amphetamine, Cocaine Metabolite, Alprazolam & Metabolite
DFSA	202200000055132	0006	51001190946	02/01/2022	YES-0.000	91	550	10	Amphetamine, Citalopram & Metabolite
DFSA	202200000107932	0001	51001191082	02/01/2022	no (>24h)	97	51		
DFSA	202200000133731	0001	51001192198	03/11/2022	no (>24h)	94	540	4	Amphetamine, Topiramate, Citalopram & Metabolite
DFSA	202200000189585	0003	51001200167	03/11/2022	no	83	130	4	
DFSA	202200000204589	0001	51001198538	03/11/2022	no (>24h)	>100	510	10	Phentermine
DFSA	202200000208668	0006	51001220593	04/14/2022	no (>12h)	80	37	2	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Diphenhydramine
DFSA	202200000211755	0004	51001203072	03/11/2022	YES-0.000 (>12h)	>100	1700	10	
DFSA	202200000211755	0005	51001203081	03/11/2022	YES-0.000 (>12h)	>100	110	2	
DFSA	202200000214865	0009	51001199702	03/11/2022	no	80	110	2	Ethanol
DFSA	202200000277656	0003	51001205645	03/11/2022	YES-0.129	88	310	4	
DFSA	202200000292362	0001	51001303926	09/21/2022	YES (>24h)	82	24		Benzoylcegonine (Cocaine Metabolite)

2022-QI-0024
68

DFSA	202200000381068	0003	51001216676	04/14/2022	no	57	19	Ethanol, Methamphetamine, Fentanyl, Cetirizine
DFSA	202200000468561	0003	51001227565	04/14/2022	no	>100	1600	10 Gabapentin, Hydromorphone Metabolite, Hydrocodone, Dihydrocodeine, Diphenhydramine, Quetiapine Metabolite
DFSA	202200000470670	0003	51001256892	06/27/2022	no (>12h)	84	760	10
DFSA	202200000474629	0003	51001226138	04/14/2022	no	>100	130	2 Methamphetamine, Amphetamine
DFSA	202200000495025	0003	51001228762	04/14/2022	YES-0.133	96	220	4
DFSA	202200000497532	0003	51001244427	06/27/2022	no (>12h)	73	170	2
DFSA	202200000555420	0006	51001233316	05/17/2022	no	79	38	
DFSA	202200000561239	0003	51001236952	05/17/2022	YES (also second urine-ind<15COOH)	54	17	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methadone & Metabolite
DFSA	202200000581871	0001	51001236350	05/17/2022	YES (>24h)	88	36	Zolpidem, Cetirizine
DFSA	202200000584789	0001	51001244418	05/17/2022	no (>24h)	87	140	2 Benzoylcegonine (Cocaine Metabolite)
DFSA	202200000586804	0001	51001244440	05/17/2022	no (>24h)	79	39	2 Methamphetamine, Amphetamine, Fentanyl
DFSA	202200000614612	0003	51001248033	06/27/2022	no	97	190	2 Ethanol, Lorazepam, Sertraline & Metabolite
DFSA	202200000619201	0001	51001249506	06/27/2022	YES (>24h)	>100	630	10
DFSA	202200000655382	0003	51001244443	06/27/2022	no	>100	230	2 Propofol, Midazolam Metabolite
DFSA	202200000676372	0006	51001252212	06/27/2022	no	90	170	4 Methamphetamine, Amphetamine
DFSA	202200000695803	0001	51001248354	06/27/2022	no (>24h)	86	570	10 Clonazepam Metabolite
DFSA	202200000702519	0004	51001272732	07/27/2022	no (>12h)	98	260	4 Lamotrigine
DFSA	202200000707052	0004	51001272678	07/27/2022	no (>12h)	93	800	10
DFSA	202200000721357	0003	51001252114	06/27/2022	YES	78	58	
DFSA	202200000722621	0001	51001255798	06/27/2022	YES (>24h)	81	490	4
DFSA	202200000727251	0003	51001251714	06/27/2022	YES-0.000 (>12h)	>100	2000	10 Levetiracetam
DFSA	202200000729219	0001	51001252192	06/27/2022	no (>24h)	>100	520	4
DFSA	202200000729222	0003	51001252188	07/27/2022	YES-0.000	70	2300	20
DFSA	202200000776516	0006	51001256415	06/27/2022	YES-0.000 (>12h)	92	530	4
DFSA	202200000804606	0006	51001261669	06/27/2022	no	84	1400	10 Ethanol
DFSA	202200000827862	0003	51001260943	06/27/2022	no (>12h)	92	64	2
DFSA	202200000893525	0003	51001268127	06/27/2022	YES-<0.025	78	600	10 Bupropion, Sertraline, Cetirizine, Norchlorcyclizine
DFSA	202200000913959	0005	51001271693	07/27/2022	no	80	520	10
DFSA	202200000925045	0003	51001281686	07/27/2022	YES-0.000 (>12h)	97	2500	10
DFSA	202200000940628	0003	51001274099	07/27/2022	no	99	460	10 Ethanol, Methorphan, Doxylamine, Cetirizine, Diphenhydramine
DFSA	202200000962887	0001	51001281738	07/27/2022	no (>24h)	90	3100	10 Cocaine Metabolite, Methadone & Metabolite
DFSA	202200000983172	0002	51001281679	07/27/2022	no (>24h)	>100	1500	10 Methamphetamine, Amphetamine
DFSA	202200001016107	0003	51001281058	07/27/2022	no	75	72	Methamphetamine, Amphetamine
DFSA	202200001024807	0003	51001281753	07/27/2022	YES-0.000 (>12h)	67	21	Oxycodone, Oxymorphone Metabolite
DFSA	202200001037288	0003	51001281995	07/27/2022	no (>12h)	>100	500	10 Benzoylcegonine (Cocaine Metabolite)
DFSA	202200001055903	0003	51001283561	08/19/2022	no	>100	54	Methamphetamine, Amphetamine
DFSA	202200001084275	0003	51001288306	08/19/2022	no	89	660	10 Ethanol, Benzoylcegonine (Cocaine Metabolite)
DFSA	202200001107490	0004	51001288413	08/19/2022	YES-0.000 (>12h)	73	720	10 Diphenhydramine
DFSA	202200001122297	0001	51001292246	08/19/2022	no (>24h)	75	61	
DFSA	202200001173317	0003	51001295939	08/19/2022	YES-0.000 (>12h)	95	2900	10 Methamphetamine, Amphetamine
DFSA	202200001181031	0002	51001300064	09/21/2022	no (>12h)	86	330	4 Benzoylcegonine (Cocaine Metabolite)
DFSA	202200001260767	0001	51001304940	09/21/2022	YES (>24h)	83	140	2
DFSA	202200001289719	0001	51001307422	09/21/2022	YES-0.000 (>12h)	>100	89	2 Methamphetamine, Amphetamine
DFSA	202200001291975	0003	51001307638	09/21/2022	YES-0.000	>100	240	4 Nordiazepam, Oxazepam, Temazepam, Fluoxetine
DFSA	202200001322749	0001	51001315795	10/27/2022	no (>24h)	92	97	2 Propofol
DFSA	202200001331353	0003	51001311609	10/27/2022	YES-0.000 (>12h)	>100	550	10 MDMA, MDA, Amphetamine, Benzoylcegonine (Cocaine Metabolite)
DFSA	202200001346360	0001	51001330360	10/27/2022	no (>24h)	89	190	2 Cocaine & Metabolite
DFSA	202200001352899	0003	51001312232	10/27/2022	YES-0.000 (>12h)	73	1100	10 Methamphetamine, Amphetamine
DFSA	202200001354211	0004	51001315167	10/27/2022	no	95	1000	10 Ethanol
DFSA	202200001372299	0008	51001314140	10/27/2022	YES-0.000	94	330	4

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DFSA	202200001400580	0003	51001318573	10/27/2022	no	49	17	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methamphetamine
DFSA	202200001413935	0001	51001317930	10/27/2022	YES (>24h)	98	230	2 Methamphetamine, Amphetamine
DFSA	202200001438613	0003	51001322449	10/27/2022	YES-0.000 (>12h)	93	56	Methamphetamine, Amphetamine
DFSA	202200001445285	0003	51001320367	10/27/2022	no	99	290	4 Ethanol, Fentanyl & Metabolite, Methamphetamine, Amphetamine, Cocaine & Metabolites
DFSA	202200001454005	0004	51001321965	10/27/2022	no	>100	2500	10 Amphetamine, Lamotrigine
DFSA	202200001523196	0003	51001329074	10/27/2022	YES-0.000 (>12h)	76	2600	10 Benzoylgonine (Cocaine Metabolite)
DFSA	202200001529017	0001	51001329198	10/27/2022	no	91	1900	10 Benzoylgonine (Cocaine Metabolite), Bromazepam, Clonazepam Metabolite
DFSA	202200001142251	0003	51001293196	08/19/2022	no (>24h)	52	74	Trazodone, Gabapentin, Risperidone Metabolite, Ceftriaxone, Norchlorcyclizine
DFSA	202200001285234	0001	51001330366	10/27/2022	no (>12h)	63	40	Methamphetamine, Amphetamine
ACC w/ F	202100000901947	0003	51001074249	06/24/2021	YESX3-COOH, PCP	83	41	PCP
ACC w/ F	202100001145344	0003	51001097469	10/05/2021	YESX3-COOH	88	150	2
ACC w/ F	202100001169938	0001	51001099884	10/05/2021	YES-THC/OH/COOH	94	2300	10
ACC w/ F	202100001310662	0002	51001113087	10/07/2021	YES-THC/COOH	>100	76	
ACC w/ F	202100001337711	0004	51001116216	10/07/2021	YESX2-THC/OH/COOH	84	1600	10
ACC w/ F	202100001714396	0002	51001151643	11/16/2021	YES-*no THC(Randox@4.7) Methamphetamine	47	20	Fentanyl, Methamphetamine, Amphetamine, Midazolam & Metabolite
ACC w/ I	202100000086516	0001	51000991975	02/09/2021	YES-THC/OH/COOH	>100	1500	10
ACC w/ I	202100000864870	0002	51001070195	06/24/2021	YESX2-THC/OH/COOH	85	7100	50
ACC w/ I	202100001308597	0003	51001112920	10/07/2021	YESX2 (1)-COOH, Methamphetamine, Fentanyl & Metabolite, Midazolam (2)-Methamphetamine, Fentanyl & Metabolite, *NO THC(Randox no result, no add'l testing)	91	41	Fentanyl, Methamphetamine, Amphetamine, Midazolam & Metabolite, Propofol, Alprazolam Metabolite
DUI	202000002021925	0001	51000974694	02/09/2021	no	98	200	2 Methamphetamine, Amphetamine
DUI	202000002091797	0001	51000980785	02/09/2021	no	67	20	Fentanyl & Metabolite, Tramadol & Metabolite, Clonazepam
DUI	202000002092432	0001	51000980858	02/09/2021	no	39	18	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000059063	0001	51000989259	02/09/2021	QNS	98	1900	20 Methamphetamine, Amphetamine, Methadone, Morphine, Codeine, Alprazolam & Metabolite, Clonazepam Metabolite
DUI	202100000111528	0001	51000994563	02/09/2021	no	95	6400	20 Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	202100000168790	0001	51001000375	03/09/2021	no	98	1600	10 Methadone & Metabolite, Alprazolam & Metabolite
DUI	202100000238567	0001	51001006853	03/09/2021	no	86	140	Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000283605	0001	51001011227	03/09/2021	no	>100	140	4 Methamphetamine, Amphetamine, Alprazolam
DUI	202100000339913	0002	51001017051	03/24/2021	no	93	1700	10
DUI	202100000729666	0001	51001056725	06/24/2021	no	82	3000	10 Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam & Metabolite
DUI	202100000749199	0003	51001058974	06/24/2021	YES-COOH, Fentanyl & Metabolite, Methamphetamine, Amphetamine	97	160	4 Fentanyl, Methamphetamine, Amphetamine, Morphine
DUI	202100000763759	0001	51001059948	06/24/2021	no	86	500	10 Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000795100	0001	51001063270	06/24/2021	no	85	120	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoylgonine (Cocaine Metabolite)
DUI	202100000847229	0001	51001068184	06/24/2021	no	76	260	4 Fentanyl & Metabolite, Methamphetamine, Amphetamine, Methadone & Metabolite
DUI	202100000882810	0001	51001071886	06/24/2021	no	87	1500	10 Methamphetamine, Amphetamine, Gabapentin, Bupropion, Methadone & Metabolite, Alprazolam & Metabolite, Benzoylgonine (Cocaine Metabolite)

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DUI	202100000890235	0001	51001072844	06/24/2021	no	88	3800	10 Fentanyl, Methadone & Metabolite, Clonazepam Metabolite
DUI	202100000925398	0001	51001076458	09/23/2021	no	83	5100	10 Methamphetamine, Amphetamine, Methadone & Metabolite, Alprazolam & Metabolite, Lorazepam, Cocaine & Metabolite
DUI	202100000940671	0004	51001078120	07/22/2021	QNS	81	2200	20 Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100000943672	0001	51001078345	07/22/2021	no	73	42	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Morphine
DUI	202100001037588	0001	51001087296	07/22/2021	no	77	2200	10 Fentanyl & Metabolite
DUI	202100001465143	0001	51001127803	10/07/2021	no	63	38	Fentanyl, Methamphetamine, Amphetamine
DUI	202100001461260	0002	51001129744	10/07/2021	YES-0.124, THC/COOH, Tramadol	96	100	Tramadol & Metabolite, Gabapentin, Venlafaxine
DUI	202100001663088	0002	51001146838	12/13/2021	YESx2-<0.025, THC/OH/COOH	>100	850	
DUI	202100001715914	0001	51001151659	11/16/2021	no	67	130	2 Fentanyl & Metabolite, Methamphetamine, Amphetamine
DUI	202100001729559	0001	51001152957	11/16/2021	no	92	200	4 Fentanyl, Nordiazepam, Oxazepam, Temazepam, Trazodone & Metabolite, Diphenhydramine
DUI	202100001943688	0003	51001171425	12/30/2021	YES-THC/COOH, DFE	100	86	2 DFE
Ag Assault	202100001233371	0002	51001106785.0	10/05/2021	YES-COOH, Methamphetamine	86	130	2 Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoylcegonine (Cocaine Metabolite), Risperidone & Metabolite
Child Abuse	202100000992072	0011	51001091568	07/22/2021	no	87	53	Fentanyl & Metabolite, Methamphetamine, Amphetamine
Child Abuse	202100001838662	0004	51001162650	12/30/2021	YES-THC/COOH, Fentanyl & Metabolite	92	330	4 Fentanyl & Metabolite
Child Abuse	202100001940352	0002	51001171079	12/30/2021	no	>100	2000	10 Benzoylcegonine (Cocaine Metabolite)
DFSA	202000002081445	0003	51000992689	02/09/2021	YES (>24h)	90	220	2 Methamphetamine, Amphetamine, Benzoylcegonine (cocaine metabolite)
DFSA	202000002113949	0003	51000985423	02/09/2021	YES (>24h)	50	25	Methamphetamine, Amphetamine
DFSA	202000002116754	0002	51000986038	02/09/2021	no	64	57	2
DFSA	202000002117614	0003	51000994584	02/09/2021	YES 0.841	34	17	
DFSA	202100000013925	0002	51000988592	02/09/2021	YES 0.000	95	830	10
DFSA	202100000043068	0003	51000993443	03/09/2021	no	92	730	10
DFSA	202100000054476	0001	51001001676	03/09/2021	YES (>24h)	94	370	10 Alprazolam & Metabolite, Tramadol & Metabolite
DFSA	202100000062473	0003	51000993464	03/09/2021	no	95	69	4 Methamphetamine, Amphetamine
DFSA	202100000067662	0003	51001000240	03/09/2021	YES 0.000 (>12h)	89	890	10
DFSA	202100000104036	0003	51000994653	02/09/2021	YES 0.000	97	1300	10 Alprazolam & Metabolite
DFSA	202100000112271	0003	51000996671	03/09/2021	no	98	130	4 Methamphetamine, Amphetamine
DFSA	202100000117888	0003	51001052361	07/22/2021	YES 0.167	66	32	
DFSA	202100000164030	0003	51001001054	03/09/2021	YES 0.000	76	33	Methamphetamine, Amphetamine, Fentanyl, 6-Monoacetylmorphine/Heroin metabolite, Morphine, Olanzapine
DFSA	202100000164259	0003	51001001501	03/09/2021	YES 0.000 (>12h)	98	990	10
DFSA	202100000174138	0003	51001001655	04/19/2021	no	73	32	Methamphetamine, Amphetamine
DFSA	202100000189599	0003	51001009941	03/09/2021	no	94	570	10 Methamphetamine, Amphetamine, Citalopram
DFSA	202100000194220	0003	51001012144	03/09/2021	YES 0.000	85	960	10 Methamphetamine, Lorazepam
DFSA	202100000194284	0003	51001006631	03/09/2021	no	99	450	10
DFSA	202100000211568	0002	51001013806	03/24/2021	no	>100	520	10 Levetiracetam
DFSA	202100000221639	0001	51001006490	03/09/2021	YES 0.000	91	1600	10
DFSA	202100000250563	0008	51001008302	03/09/2021	YES 0.000 (>12h)	71	39	
DFSA	202100000288979	0003	51001012157	03/09/2021	no	91	410	10
DFSA	202100000302454	0004	51001013887	03/24/2021	no	97	140	2 Methamphetamine, Amphetamine
DFSA	202100000361087	0003	51001034178	04/19/2021	YES 0.000	80	47	Methamphetamine, Amphetamine, Fentanyl
DFSA	202100000417719	0005	51001025325	04/19/2021	no	47	27	Ethanol, Cocaine & Metabolite
DFSA	202100000447510	0004	51001030469	04/19/2021	YES (>24h)	91	540	10
DFSA	202100000450740	0003	51001034610	04/19/2021	no	87	80	Ethanol, Cetirizine
DFSA	202100000461381	0005	51001052872	06/24/2021	YES 0.000	>100	920	10
DFSA	202100000501607	0003	51001048591	06/24/2021	YES 0.000 (>12h)	51	23	

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DFSA	202100000530294	0001	51001036926	04/19/2021	no	81	580	10	
DFSA	202100000531826	0001	51001036942	04/19/2021	no	70	34		
DFSA	202100000581678	0003	51001042289	06/24/2021	YES 0.000	85	1700	10	Benzoylcegonine (Cocaine Metabolite)
DFSA	202100000584629	0003	51001043055	06/24/2021	YES 0.111	81	41		Methamphetamine, Amphetamine
DFSA	202100000594426	0003	51001052750	06/24/2021	YES 0.000 (>12h)	83	1600	10	
DFSA	202100000596389	0004	51001052402	06/24/2021	YES 0.125	91	54		Phentermine
DFSA	202100000628208	0007	51001052794	06/24/2021	no	85	240	2	
DFSA	202100000646155	0002	51001048766	06/24/2021	no	95	270	2	
DFSA	202100000649024	0003	51001049522	06/24/2021	YES (>24h)	89	1300	10	Methamphetamine, Benzoylcegonine (Cocaine Metabolite), Alprazolam & Metabolite
DFSA	202100000717178	0003	51001056990	06/24/2021	YES 0.000 (>12h)	89	280	2	
DFSA	202100000732422	0003	51001069810	06/24/2021	YES 0.029	94	4200	10	
DFSA	202100000769637	0003	51001061310	06/24/2021	no	86	1200	10	Ethanol, Methamphetamine
DFSA	202100000801020	0003	51001069189	06/24/2021	YES 0.000 (>12h)	84	2800	10	
DFSA	202100000812437	0003	51001073994	06/24/2021	YES 0.000 (>12h)	96	280	10	
DFSA	202100000833691	0003	51001069211	06/24/2021	YES 0.000	82	86		
DFSA	202100000843278	0004	51001068766	06/24/2021	YES 0.000	87	110	2	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl
DFSA	202100000853259	0003	51001072660	06/24/2021	YES 0.000 (>12h)	89	1900	10	
DFSA	202100000868117	0003	51001078535	07/22/2021	no	88	290	2	
DFSA	202100000872660	0003	51001073904	06/24/2021	YES 0.000	86	15000	50	Trazodone, Citalopram, Cetirizine
DFSA	202100000874313	0003	51001071898	06/24/2021	YES 0.000 (>12h)	91	1500	10	Cetirizine
DFSA	202100000892653	0002	51001074009	06/24/2021	YES (>24h)	81	360	4	Methamphetamine, Amphetamine
DFSA	202100000907114	0003	51001077412	07/22/2021	YES (>24h)	>100	440	4	
DFSA	202100000911180	0003	51001078476	07/22/2021	YES (>24h)	76	670	10	
DFSA	202100000919695	0003	51001076250	06/24/2021	YES 0.104	90	1100	10	Citalopram
DFSA	202100000930682	0003	51001078700	07/22/2021	no	84	960	10	
DFSA	202100000955400	0002	51001080519	10/05/2021	YES 0.000 (>12h)	91	490	4	
DFSA	202100000955836	0003	51001098175	10/05/2021	YES (>24h)	72	230	4	Methamphetamine, Amphetamine
DFSA	202100000965825	0003	51001080462	07/22/2021	no	100	660	4	Ethanol
DFSA	202100000994427	0003	51001084419	07/22/2021	no	58	24		
DFSA	202100001032333	0003	51001129565	10/05/2021	YES 0.000	87	150	2	
DFSA	202100001057250	0003	51001115266	10/05/2021	YES (>24h)	90	950	4	
DFSA	202100001059892	0003	51001124310	10/05/2021	no	100	100	4	Ethanol
DFSA	202100001068291	0003	51001092767	07/22/2021	YES 0.000 (>12h)	84	250	4	Cocaine & Metabolite
DFSA	202100001108065	0003	51001098737	10/05/2021	no	88	150	2	Benzoylcegonine (Cocaine Metabolite)
DFSA	202100001124486	0001	51001096631	10/05/2021	YES (>24h)	87	120	4	Methamphetamine, Amphetamine
DFSA	202100001137300	0003	51001122731	10/05/2021	YES (>24h)	99	990	10	
DFSA	202100001141476	0003	51001098906	10/05/2021	YES (>24h)	82	980	10	Alprazolam Metabolite, Diphenhydramine
DFSA	202100001155581	0003	51001099058	10/05/2021	YES 0.000 (>12h)	82	2200	10	Benzoylcegonine (Cocaine Metabolite)
DFSA	202100001162694	0001	51001119246	10/05/2021	no	32	15		Methamphetamine, Cetirizine, Levacetaminophen
DFSA	202100001163154	0008	51001099614	10/05/2021	YES 0.000	79	320	4	Methamphetamine, Amphetamine
DFSA	202100001182071	0004	51001102624	10/07/2021	YES 0.000	99	2000	20	
DFSA	202100001237270	0003	51001107899	10/05/2021	no	91	49		Methamphetamine, Amphetamine
DFSA	202100001264591	0003	51001113106	10/07/2021	no	52	20		
DFSA	202100001271312	0003	51001110680	10/07/2021	no	90	160		
DFSA	202100001299740	0007	51001113130	10/07/2021	no	94	130		Ethanol, Methamphetamine, Amphetamine
DFSA	202100001311693	0002	51001114796	10/07/2021	no	65	30		
DFSA	202100001311961	0002	51001119231	10/07/2021	no	79	1600	10	Methamphetamine, Amphetamine
DFSA	202100001315630	0003	51001113706	10/07/2021	no	77	170	2	Methamphetamine, Amphetamine
DFSA	202100001316883	0003	51001115242	10/07/2021	no	58	22		Methamphetamine, Amphetamine, Fentanyl
DFSA	202100001318772	0001	51001142578	11/16/2021	no	>100	530	20	PCP, Methamphetamine, Benzoylcegonine (Cocaine Metabolite), Gabapentin, Topiramate, Valproic Acid, Diphenhydramine
DFSA	202100001328570	0003	51001117280	10/07/2021	no	83	990	10	Methamphetamine, Amphetamine

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DFSA	202100001346506	0003	51001118526	10/07/2021	no	80	170	4 Methamphetamine, Amphetamine
DFSA	202100001379396	0003	51001122499	10/07/2021	no	73	6600	10 Hydrocodone, Hydromorphone
DFSA	202100001380270	0001	51001124340	10/07/2021	YES 0.000 (>12h)	96	190	
DFSA	202100001409984	0003	51001158761	12/30/2021	no	46	15	Methamphetamine, Amphetamine
DFSA	202100001432337	0001	51001129948	11/16/2021	no	94	220	4 Cocaine & Metabolite
DFSA	202100001456758	0005	51001128462	10/07/2021	YES 0.000 (>12h)	79	76	Fluoxetine & Metabolite, Trazodone & Metabolite, Lamotrigine, Cetirizine
DFSA	202100001490465	0006	51001132799	11/16/2021	no	89	38	Methamphetamine
DFSA	202100001503682	0005	51001136943	11/16/2021	no	92	130	2 Ethanol, Cocaine & Metabolite
DFSA	202100001574548	0003	51001138942	11/16/2021	no	87	31	Ethanol, Benzoylgonine (Cocaine Metabolite)
DFSA	202100001581683	0003	51001140295	11/16/2021	YES (>24h)	40	19	
DFSA	202100001634416	0003	51001147004	12/13/2021	no	83	28	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl
DFSA	202100001638780	0003	51001145132	11/16/2021	no	78	120	
DFSA	202100001658109	0003	51001147639	11/16/2021	no	62	34	Methamphetamine, Amphetamine
DFSA	202100001659314	0003	51001148904	11/16/2021	no	94	120	4 Ethanol, Methamphetamine, Doxylamine, Tramadol, Cetirizine
DFSA	202100001690131	0001	51001151827	11/16/2021	no	76	39	
DFSA	202100001690553	0004	51001150531	11/16/2021	YES 0.000 (>12h)	84	120	Norfentanyl, Fluoxetine, Cetirizine
DFSA	202100001695734	0003	51001150175	11/16/2021	YES 0.000 (>12h)	71	1300	20 Amphetamine
DFSA	202100001722930	0004	51001159392	12/13/2021	YES 0.000	79	69	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl, Cocaine & Metabolite
DFSA	202100001742239	0003	51001154423	12/13/2021	YES (>24h)	96	890	10
DFSA	202100001751907	0002	51001158276	12/13/2021	no	91	160	Oxycodone, Oxymorphone, Alprazolam & Metabolite, Nordiazepam, Oxazepam, Temazepam
DFSA	202100001769583	0005	51001158609	12/13/2021	YES 0.000 (>12h)	88	6900	10 Amphetamine, Fluoxetine
DFSA	202100001792894	0003	51001161133	12/13/2021	YES (>24h)	97	870	10 Methamphetamine, Amphetamine, Lorazepam, Trazodone Metabolite, Sertraline Metabolite
DFSA	202100001835996	0003	51001167608	12/30/2021	no	80	88	2 Ethanol, Cocaine & Metabolite
DFSA	202100001899256	0003	51001167802	12/30/2021	no	82	1600	10
DFSA	202100001924972	0001	51001170714	12/30/2021	YES <0.025	69	3700	10 Diphenhydramine
ACC w/ F	202000001482327	0001	51000921668	09/16/2020	YES-COOH, Fentanyl & Metabolite	99	44	*only A/B testing for Fentanyl at this time
ACC w/ I	202000000888565	0001	51000867537	07/24/2020	YES-COOH, Fentanyl & Metabolite, Cocaine & Metabolite, Midazolam	89	73	Fentanyl & Metabolite, Methamphetamine, Amphetamine, MDMA, Cocaine & Metabolite, Ketamine & Metabolite, Tramadol
DUI	201900001907568	0001	51000753632	01/27/2020	YES-THC/OH/COOH/CBD, DFE, Alprazolam	>100	330	4 DFE, Alprazolam & Metabolite
DUI	201900001904755	0002	51000753413	01/27/2020	no	81	77	Methamphetamine, Amphetamine, Oxazepam, Temazepam, Alprazolam & Metabolite
DUI	201900002035314	0003	51000765000	01/27/2020	no	96	360	4 Ethanol
DUI	201900002071047	0001	51000767566	01/27/2020	no	79	73	Methamphetamine, Amphetamine
DUI	201900002207193	0001	51000778899	01/27/2020	YES-0.059, THC/OH/COOH, Cocaine & Metabolites	99	1000	10 Cocaine & Metabolites
DUI	201900002245569	0001	51000781916	01/27/2020	no	>100	970	10 Cocaine & Metabolite, Methadone & Metabolite
DUI	202000000203472	0001	51000802793	03/24/2020	no	53	25	Morphine, Lorazepam, Diphenhydramine, Cetirizine
DUI	202000000244200	0002	51000806736	03/24/2020	YES-0.139, THC/OH/COOH, Fentanyl & Metabolite	99	570	10 Fentanyl Metabolite, Diphenhydramine, Citalopram
DUI	202000000480603	0001	51000828426	06/04/2020	no	85	2500	10 Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	202000000550027	0001	51000834881	06/04/2020	no	94	52	Methamphetamine, Amphetamine, Morphine
DUI	202000000587315	0002	51000838374	06/04/2020	YES-no THC(Randox@3), Methamphetamine, Amphetamine	73	27	Methamphetamine, Amphetamine
DUI	202000000595637	0001	51000839599	06/04/2020	no	100	73	4 Tramadol
DUI	202000000621204	0002	51000842082	06/04/2020	QNS	>100	2200	10 Ethanol

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DUI	20200000695922	0001	51000849672	06/04/2020	no	86	1800	10 Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	20200000783000	0002	51000857755	06/04/2020	QNS	75	250	4 Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Morphine, Codeine
DUI	20200000809642	0001	51000860208	06/04/2020	no	56	23	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine
DUI	20200000823895	0001	51000861348	06/04/2020	no	72	230	2 Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine, Codeine, Hydromorphone, Oxazepam, Gabapentin, Cetirizine
DUI	20200000972779	0001	51000874057	07/24/2020	no	52	24	Fentanyl & Metabolite, Alprazolam & Metabolite
DUI	20200001023366	0003	51000878576	07/24/2020	YES-*no THC(Randox@9), Methamphetamine, Amphetamine, Morphine	63	140	2 Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	20200001059624	0002	51000881809	07/24/2020	no	73	80	Fentanyl & Metabolite, Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	20200001070961	0001	51000882605	07/24/2020	no	61	270	4 Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite, Morphine, Benzoylgonine (Cocaine Metabolite)
DUI	20200001135790	0001	51000887965	07/24/2020	no	43	16	Methamphetamine, Amphetamine, Venlafaxine
DUI	20200001185998	0002	51000892121	08/11/2020	QNS	66	48	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam Metabolite, Morphine
DUI	20200001236476	0002	51000899598	09/16/2020	YES-THC/OH/COOH/CBD, Alprazolam	99	1900	10 Alprazolam & Metabolite
DUI	20200001258707	0001	51000899455	09/16/2020	no	58	35	Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam Metabolite
DUI	20200001263041	0001	51000899950	09/16/2020	no	94	84	2 Methamphetamine, Amphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine, Alprazolam, Fentanyl Metabolite
DUI	20200001302181	0001	51000903854	09/16/2020	no	54	25	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Gabapentin
DUI	20200001369127	0003	51000910592	09/16/2020	YES-THC/OH/COOH, DFE	78	650	4 DFE
DUI	20200001404813	0001	51000913877	09/16/2020	no	80	59	2 6-Acetylmorphine (Heroin Metabolite), Morphine, Cocaine & Metabolite, Diphenhydramine, Methadone, Quetiapine Metabolite, Alprazolam & Metabolite
DUI	20200001485120	0001	51000921765	09/16/2020	no	>100	200	4 Diphenhydramine
DUI	20200001582386	0002	51000932312	10/30/2020	YES-THC/OH/COOH, Fentanyl & Metabolite	59	1000	10 Fentanyl & Metabolite, Methamphetamine, Amphetamine,
DUI	20200001605138	0001	51000933799	10/30/2020	no	75	99	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Benzoylgonine (Cocaine Metabolite)
DUI	20200001632407	0002	51000936555	10/30/2020	QNSx2	88	1700	10 Flubromazepam
DUI	20200001772258	0001	51000951472	11/19/2020	no	57	17	Fentanyl & Metabolite, Methamphetamine, Amphetamine, Alprazolam & Metabolite
DUI	20200001775797	0003	51000951850	11/19/2020	no	>100	430	4 Fentanyl & Metabolite, Benzoylgonine (Cocaine Metabolite)
DUI	20200001777710	0003	51000951908	12/16/2020	YES-(*no THC Randox@9.45), DFE	85	65	DFE
DUI	20200001914164	0001	51000964662	12/16/2020	no	89	1100	4 Amphetamine, Lorazepam, Gabapentin
DUI	20200001937161	0001	51000966894	12/16/2020	no	>100	4000	10 Methamphetamine, 6-Acetylmorphine (Heroin Metabolite), Morphine, Codeine
DUI	20200001974912	0001	51000970469	12/16/2020	no	96	31	Methadone & Metabolite
DFSA	20200001779768	0003	51000953604	11/19/2020	no	>100	1300	4 Ethanol
DFSA	201900001864610	0003	51000762669	01/27/2020	YES 0.000	88	52	Methamphetamine, Amphetamine

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DFSA	201900001870249	0003	51000754124	01/27/2020	YES 0.000	98	370	10 Cetirizine
DFSA	201900001879483	0003	51000762687	01/27/2020	YES 0.000	83	74	Methamphetamine, Amphetamine
DFSA	201900001972097	0003	51000766428	01/27/2020	YES 0.000	85	91	Methamphetamine, Amphetamine
DFSA	201900002080457	0003	51000770710	01/27/2020	YES 0.000	80	36	
DFSA	201900002100246	0003	51000770274	01/27/2020	YES 0.000	80	61	
DFSA	201900002131791	0003	51000815070	03/24/2020	YES 0.000	77	3100	10 Methamphetamine, Amphetamine, Diphenhydramine
DFSA	201900002157260	0003	51000776950	01/27/2020	YES 0.000	>100	120	4 Alprazolam Metabolite
DFSA	201900002170763	0003	51000776858	01/27/2020	no	84	130	4
DFSA	201900002221139	0003	51000782830	01/27/2020	YES 0.000	54	15	
DFSA	201900002266007	0003	51000810797	03/24/2020	YES 0.000	80	40	Methamphetamine, Amphetamine
DFSA	202000000001533	0003	51000788579	01/27/2020	no	97	100	Ethanol
DFSA	202000000005409	0002	51000785111	01/27/2020	YES 0.000	74	51	
DFSA	202000000031156	0001	51000792465	03/24/2020	YES 0.000	95	330	4
DFSA	202000000121458	0003	51000810904	03/24/2020	YES 0.000	65	25	
DFSA	202000000123794	0003	51000796389	03/24/2020	no	60	22	Fentanyl, Norfentanyl, Alprazolam & Metabolite, Butalbital, Tramadol
DFSA	202000000133488	0004	51000796405	03/24/2020	no	85	25	Benzoylcegonine (Cocaine Metabolite)
DFSA	202000000135998	0003	51000810815	03/24/2020	YES 0.000	94	1200	10 Methamphetamine, Amphetamine
DFSA	202000000169247	0004	51000802901	03/24/2020	no	>100	240	4
DFSA	202000000204050	0004	51000818316	03/24/2020	no	41	17	Methamphetamine, Amphetamine
DFSA	202000000239482	0004	51000807232	03/24/2020	no	92	58	
DFSA	202000000261869	0003	51000810729	03/24/2020	YES 0.000	>100	100	2 Methamphetamine, Amphetamine, Gabapentin, Cetirizine
DFSA	202000000328112	0004	51000823551	03/24/2020	no	56	18	
DFSA	202000000341969	0004	51000830798	06/04/2020	no	93	37	Methamphetamine, Amphetamine, Chlorpheniramine
DFSA	202000000348716	0003	51000826087	03/24/2020	no	94	620	10 Methamphetamine, Amphetamine
DFSA	202000000373494	0001	51000820822	03/24/2020	YES 0.000	>100	110	2
DFSA	202000000412457	0004	51000824249	03/24/2020	no	78	20	
DFSA	202000000448296	0003	51000826766	03/24/2020	YES 0.000	64	23	
DFSA	202000000453416	0002	51000826791	03/24/2020	YES 0.059	90	240	4 Lamotrigine
DFSA	202000000497289	0003	51000830767	06/04/2020	YES 0.000	96	1500	10 Methamphetamine, Amphetamine
DFSA	202000000598651	0003	51000840743	06/04/2020	YES 0.000	54	18	
DFSA	202000000702283	0002	51000851872	06/04/2020	YES -0.025	77	29	
DFSA	202000000785414	0004	51000857980	07/24/2020	no	73	130	2 Cocaine & Metabolites
DFSA	202000000843490	0004	51000864511	07/24/2020	YES 0.031	83	200	4 Methamphetamine, Amphetamine
DFSA	202000000883801	0003	51000869939	07/24/2020	YES 0.000	>100	170	2 Methamphetamine, Amphetamine
DFSA	202000000923427	0003	51000871023	07/24/2020	no	>100	250	4 Cocaine & Metabolite, Etizolam & Metabolite, Methorphan
DFSA	202000000932230	0003	51000894466	08/11/2020	YES 0.000	>100	410	4 Amphetamine
DFSA	202000001024656	0003	51000887468	07/24/2020	no	100	790	10 Cetirizine
DFSA	202000001048608	0003	51000881239	07/24/2020	YES 0.000	94	46	
DFSA	202000001051175	0003	51000881224	07/24/2020	no	31	15	
DFSA	202000001071385	0003	51000883770	07/24/2020	no	82	80	Phentermine
DFSA	202000001117189	0003	51000893947	08/11/2020	no	>100	600	10
DFSA	202000001119427	0001	51000888049	07/24/2020	YES (>24h)	91	210	2
DFSA	202000001128123	0004	51000893617	08/11/2020	no	>100	190	2 Ethanol
DFSA	202000001156565	0003	51000893639	08/11/2020	YES 0.000	>100	130	2 Gabapentin
DFSA	202000001183727	0006	51000893845	08/11/2020	no	84	28	
DFSA	202000001190897	0001	51000893333	08/11/2020	YES 0.000	77	590	4 Oxycodone, Hydrocodone
DFSA	202000001216973	0001	51000899637	08/11/2020	YES <0.025	83	420	4
DFSA	202000001366036	0003	51000914753	09/16/2020	no	82	1000	10 Oxazepam
DFSA	202000001408864	0003	51000914729	09/16/2020	no	74	130	2 Diphenhydramine
DFSA	202000001421715	0001	51000918363	09/16/2020	no	64	54	Methamphetamine, Amphetamine, Fentanyl, Norfentanyl
DFSA	202000001424421	0003	51000921431	09/16/2020	YES (>24h)	87	45	2
DFSA	202000001506204	0003	51000926711	10/30/2020	YES 0.000	97	560	10

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DFA	202000001526923	0003	51000926820	10/30/2020	no	66	20	
DFA	202000001574027	0005	51000932632	10/30/2020	YES (>24h)	67	140	Methamphetamine, Amphetamine
DFA	202000001591226	0003	51000934619	10/30/2020	YES 0.000	87	30	
DFA	202000001591852	0001	51000938436	10/30/2020	YES (>24h)	71	290	10
DFA	202000001620455	0003	51000964817	12/16/2020	no	56	22	
DFA	202000001671619	0003	51000941962	10/30/2020	YES <0.025	95	130	
DFA	202000001671893	0006	51000942004	10/30/2020	YES 0.073	73	39	
DFA	202000001688824	0003	51000946381	11/19/2020	no	73	36	Cetirizine
DFA	202000001695478	0002	51000950407	11/19/2020	no	50	19	
DFA	202000001712223	0005	51000945638	10/30/2020	YES 0.000	78	69	Methamphetamine, Amphetamine, Morphine, Alprazolam & Metabolite, Citalopram, Lamotrigine, Levetiracetam
DFA	202000001716517	0003	51000949945	11/19/2020	YES 0.000	61	20	Methamphetamine, Amphetamine, Gabapentin, Levetiracetam
DFA	202000001771050	0003	51000955204	11/19/2020	no	>100	410	10 Methamphetamine, Amphetamine, Diphenhydramine
DFA	202000001797320	0004	51000957864	11/19/2020	no	72	83	Benzoylcegonine (Cocaine Metabolite)
DFA	202000001840723	0003	51000964834	12/16/2020	YES 0.000	90	270	2 MDMA, MDA, Amphetamine
DFA	202000001860521	0001	51000964823	12/16/2020	YES 0.000	80	3600	10
DFA	202000001914592	0005	51000968655	12/16/2020	YES 0.000	88	840	4 Methamphetamine, Amphetamine
DFA	202000001916287	0003	51000969741	12/16/2020	YES (>24h)	96	670	4 Methamphetamine
DFA	202000001925742	0003	51000968634	12/16/2020	YES (>24h)	83	39	Methamphetamine, Amphetamine
DFA	202000001948674	0003	51000968666	12/16/2020	YES 0.000	84	2100	4
DFA	202000001955252	0003	51000969349	12/16/2020	no	86	65	Doxylamine
DUI	201900001258161	0001	51000698743	09/18/2019	no	76	760	10 Cocaine & Metabolite, Alprazolam & Metabolite, Methadone & Metabolite, Sertraline & Metabolite, Fentanyl, Trazodone
DUI	201800002208257	0002	51000580581	01/17/2019	YES-THC/COOH, Morphine	>100	97	2 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Oxycodone
DUI	201900000014939	0001	51000589458	01/17/2019	no	60	43	6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, AB-FUBINANA Metabolite, 4-cyano CUMYL-BUTINACA
DUI	201900000167178	0002	51000603956	02/20/2019	YESx2-THC/OH/COOH	93	4000	10
DUI	201900000254181	0002	51000611738	02/20/2019	YES-THC/OH/COOH, Methamphetamine, Amphetamine	89	2100	20 Methamphetamine, Amphetamine
DUI	201900000384722	0003	51000623118	04/12/2019	YES 0.040-COOH, Methamphetamine, Fentanyl, Norfentanyl	99	270	2 Methamphetamine, Amphetamine, Fentanyl
DUI	201900000421723	0003	51000626255	04/12/2019	no	88	310	10 Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Mirtazapine, Clonazepam Metabolite
DUI	201900000773682	0002	51000657151	06/04/2019	YES-THC/COOH, Alprazolam	90	40	Alprazolam & Metabolite
DUI	201900000936852	0001	51000671784	07/24/2019	no	64	42	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Methadone & Metabolite, Hydromorphone
DUI	201900001252392	0002	51000698311	09/18/2019	YES-COOH, Methadone, Alprazolam & Metabolite	74	42	2 Methadone & Metabolite, Alprazolam & Metabolite
DUI	201900001311329	0002	51000703211	09/18/2019	no	63	30	Methamphetamine, Amphetamine, Fentanyl, Morphine
DUI	201900001395215	0002	51000710365	09/18/2019	YES-THC/COOH, Methamphetamine, Amphetamine, Morphine	87	630	10 Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Fentanyl, Benzoylcegonine (Cocaine Metabolite)
DUI	201900001450745	0002	51000715348	10/09/2019	QNS	>100	110	2 Topiramate, Cetirizine
DUI	201900001483490	0001	51000717997	10/09/2019	no	>100	320	4 Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Methadone & Metabolite, Fentanyl, Alprazolam & Metabolite

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DUI	201900001613563	0001	51000729132	10/09/2019	no	96	170	Benzoylcegonine (Cocaine Metabolite), Hydrocodone, Oxycodone, Nordiazepam, Oxazepam, Temazepam, Alprazolam & Metabolite
DUI	201900001670357	0001	51000734631	10/09/2019	no	93	2200	20 Methamphetamine, Amphetamine
DUI	201900001705774	0001	51000737416	10/09/2019	no	86	66	Fentanyl, Alprazolam & Metabolite, Citalopram
DUI	201900001760680	0001	51000742088	12/02/2019	no	91	180	4 Fentanyl, Gabapentin
DUI	201900001844389	0001	51000749134	12/02/2019	no	>100	240	4 Methamphetamine, Benzoylcegonine (Cocaine Metabolite), Morphine, Nordiazepam, Oxazepam, Temazepam
DUI	201900001878496	0001	51000751838	12/02/2019	no	>100	2000	10
Homicide	201900001035747	0002	51000679924	07/24/2019	no	77	520	10 Ethanol, Methamphetamine, Amphetamine
Ag Assault	201900001595452	0002	51000728215	10/09/2019	YES-only tested for alcohol 0.000 (submitted in SA packaging?)	79	31	Benzoylcegonine (Cocaine Metabolite)
DFSA	201800002165716	0003	51000586566	01/17/2019	YES 0.000	>100	470	4 Cocaine & Metabolite
DFSA	201800002191125	0004	51000581396	01/17/2019	YES 0.000	81	84	2
DFSA	201800002196978	0003	51000583709	01/17/2019	no	71	65	
DFSA	201800002208164	0003	51000586267	01/17/2019	no	75	64	Methamphetamine, Amphetamine, Lidocaine
DFSA	201800002216875	0003	51000586118	01/17/2019	no	60	23	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine
DFSA	201800002261516	0004	51000589177	01/17/2019	YES 0.000	>100	370	4
DFSA	201900000096969	0003	51000600898	02/20/2019	YES 0.000	>100	380	20 Methamphetamine, Amphetamine
DFSA	201900000106901	0003	51000601074	02/20/2019	YES 0.082	>100	480	20 Cocaine & Metabolites
DFSA	201900000108832	0003	51000600491	02/20/2019	no	98	2900	10 Ethanol
DFSA	201900000116251	0003	51000607694	02/20/2019	YES 0.000	>100	950	10 Sertraline
DFSA	201900000146840	0003	51000614783	04/12/2019	YES 0.000	84	600	10
DFSA	201900000153873	0003	51000616434	04/12/2019	no	87	130	2
DFSA	201900000197496	0003	51000607678	02/20/2019	YES 0.000	>100	370	10 Levetiracetam
DFSA	201900000198294	0006	51000609527	02/20/2019	YES 0.000	100	520	10
DFSA	201900000200415	0003	51000614726	04/12/2019	no	91	210	2
DFSA	201900000243172	0001	51000630950	04/12/2019	YES 0.000	90	620	10 Methamphetamine
DFSA	201900000294821	0005	51000626735	04/12/2019	no	80	470	10 Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Fentanyl, Cocaine & Metabolite, Alprazolam & Metabolite
DFSA	201900000310975	0004	51000629570	04/12/2019	no	73	26	Methamphetamine, Amphetamine, Benzoylcegonine (Cocaine Metabolite)
DFSA	201900000316720	0003	51000621681	04/12/2019	no	>100	120	Ethanol
DFSA	201900000329053	0003	51000627731	04/12/2019	YES 0.000	>100	640	10 Methamphetamine, Amphetamine
DFSA	201900000340947	0003	51000621725	04/12/2019	YES 0.000	90	97	2
DFSA	201900000407586	0006	51000625873	04/12/2019	no	95	60	
DFSA	201900000459672	0004	51000630352	04/12/2019	no	>100	2400	10
DFSA	201900000495494	0003	51000645311	06/04/2019	YES 0.000	>100	430	4
DFSA	201900000506757	0002	51000634803	04/12/2019	YES 0.000	>100	920	10
DFSA	201900000507405	0003	51000658396	07/24/2019	YES 0.000	78	16000	50
DFSA	201900000525233	0003	51000645302	06/04/2019	YES <0.025	86	830	10 PCP, Codeine, Cetirizine
DFSA	201900000560579	0003	51000639193	06/04/2019	YES 0.000	41	18	Methamphetamine, Amphetamine, Fentanyl
DFSA	201900000560682	0003	51000647301	06/04/2019	no	73	51	Methamphetamine, Amphetamine, 6-Monoacetylmorphine (Heroin Metabolite), Morphine, Codeine, Clonazepam (Metabolite), Diphenhydramine
DFSA	201900000582295	0003	51000643009	06/04/2019	YES 0.000	91	550	10 PCP, Morphine, Benzoylcegonine (Cocaine Metabolite)
DFSA	201900000621114	0003	51000645287	06/04/2019	YES 0.000	88	59	Benzoylcegonine (Cocaine Metabolite), Citalopram
DFSA	201900000635441	0003	51000646688	07/24/2019	YES 0.000	65	50	2 Methamphetamine, Amphetamine, Methadone & Metabolite, Methorphan
DFSA	201900000648317	0003	51000664441	06/04/2019	YES 0.000	>100	82	Alprazolam Metabolite

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DFSA	201900000658923	0003	51000661322	06/04/2019	no	>100	81	
DFSA	201900000695696	0005	51000651332	06/04/2019	no	82	340	10 Amphetamine, Methadone & Metabolite, Alprazolam & Metabolite
DFSA	201900000790128	0003	51000660786	06/04/2019	YES 0.000	>100	460	10
DFSA	201900000794347	0003	51000661486	06/04/2019	YES 0.034	91	1500	10 Benzoyllecgonine (Cocaine Metabolite)
DFSA	201900000800395	0006	51000662356	06/04/2019	YES 0.000	81	23	Methamphetamine, Amphetamine
DFSA	201900000888059	0002	51000683418	07/24/2019	YES 0.000	82	820	10
DFSA	201900000947096	0002	51000678460	07/24/2019	no	91	730	10
DFSA	201900000951916	0003	51000676085	07/24/2019	YES <0.025	91	760	10 Norquetiapine, Cetirizine
DFSA	201900000966534	0005	51000680077	07/24/2019	no	71	45	Ethanol
DFSA	201900001035457	0003	51000699064	09/18/2019	YES 0.000	75	380	10 Methamphetamine, Amphetamine
DFSA	201900001056455	0003	51000683506	07/24/2019	no	92	100	Propofol
DFSA	201900001073661	0002	51000705909	09/18/2019	YES 0.000	91	1600	10
DFSA	201900001074728	0004	51000683370	07/24/2019	no	95	140	2
DFSA	201900001095426	0006	51000686340	07/24/2019	YES 0.000	82	210	10 Methamphetamine, Amphetamine, Cocaine & Metabolite
DFSA	201900001113679	0003	51000699346	09/18/2019	YES 0.000	44	15	
DFSA	201900001118120	0006	51000687690	07/24/2019	YES 0.071	74	66	
DFSA	201900001162149	0003	51000695003	09/18/2019	YES 0.000	>100	700	10
DFSA	201900001211344	0001	51000698734	09/18/2019	no	66	34	Methamphetamine, Amphetamine, Olanzapine
DFSA	201900001243824	0004	51000699784	09/18/2019	YES <0.025	79	27	
DFSA	201900001244831	0003	51000702191	09/18/2019	no	66	64	Ethanol, Benzoyllecgonine (Cocaine Metabolite)
DFSA	201900001268601	0003	51000736507	10/09/2019	no	88	590	4 Fentanyl
DFSA	201900001287708	0002	51000705797	09/18/2019	YES 0.115	>100	210	2 Cocaine & Metabolite
DFSA	201900001292452	0004	51000701710	09/18/2019	no	29	20	
DFSA	201900001331753	0003	51000709375	09/18/2019	YES 0.000	84	41	
DFSA	201900001346293	0003	51000707916	09/18/2019	YES 0.000	82	150	
DFSA	201900001446811	0007	51000717122	10/09/2019	YES 0.000	85	300	4
DFSA	201900001460626	0006	51000717589	10/09/2019	no	79	36	Ethanol
DFSA	201900001496559	0004	51000721518	10/09/2019	YES 0.000	82	75	Methamphetamine, Amphetamine, Methorphan, Doxylamine, Diphenhydramine
DFSA	201900001541456	0005	51000727173	10/09/2019	YES 0.000	>100	130	2 Methamphetamine, Amphetamine
DFSA	201900001555602	0003	51000738410	12/02/2019	YES 0.138	96	100	Methamphetamine, Topiramate, Fluoxetine
DFSA	201900001556381	0003	51000733156	10/09/2019	YES 0.196	>100	100	
DFSA	201900001594814	0003	51000728917	10/09/2019	no	78	1500	20 Ethanol, Cocaine & Metabolite
DFSA	201900001621728	0003	51000733203	10/09/2019	YES 0.000	85	1000	10 Alprazolam & Metabolite
DFSA	201900001645941	0003	51000740225	12/02/2019	no	>100	520	10
DFSA	201900001646107	0003	51000738375	12/02/2019	no	92	290	2 Diphenhydramine
DFSA	201900001690683	0004	51000736538	10/09/2019	no	95	460	4 Ethanol
DFSA	201900001708544	0003	51000740767	12/02/2019	YES 0.000	>100	170	Methamphetamine, Amphetamine
DFSA	201900001768813	0003	51000744069	12/02/2019	YES 0.000	90	84	
DFSA	201900001799709	0003	51000747396	12/02/2019	no	94	310	4 Citalopram
DFSA	201900001816545	0003	51000751148	12/02/2019	YES 0.000	>100	620	10
DFSA	201900001855026	0003	51000751053	12/02/2019	QNS	>100	360	4 Methamphetamine, Amphetamine
DFSA	201900001866084	0002	51000752190	12/02/2019	YES 0.000	87	26	Methamphetamine, Amphetamine, Fentanyl

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