



## **Urine Drug Analysis**

### **Test No. 26-5671 Summary Report**

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Each participant received a sample pack containing urine samples from four individual cases with unique scenarios; they were asked to analyze the samples and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used. Data were returned from 128 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

## Manufacturer's Information

Each sample pack contained urine samples from four cases with individual case scenarios. Participants were asked to analyze the contents of each sample and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used.

**SAMPLE PREPARATION:** The urine used in this test was from the same lot, which tested negative for a panel of common drugs and controlled substances. A stock solution of each chosen drug was used to spike each item. These solutions were obtained in sealed ampoules and were not opened until needed for production. Items were prepared at separate times with different glassware.

**ITEM PREPARATION:** A predetermined amount of drug stock solution and the equivalent of 2% w/v sodium fluoride was added to pooled human urine. Mixing continuously to ensure homogeneity, 50 mL aliquots of the mixture were transferred into each of the pre-labeled specimen cups. All specimens were placed in a refrigerator immediately after production and remained there until the sample packs were prepared.

**VERIFICATION:** Predistribution results were consistent with each other and the manufacturer's preparation information.

**SAMPLE PACK ASSEMBLY:** Once verification was completed, all items were placed into Department of Transportation regulated shipping containers and the sample packs were returned to the refrigerator until shipment.

Preparation Concentrations			
Item 1 Drug(s)	Item 2 Drug(s)	Item 3 Drug(s)	Item 4 Drug(s)
Ketamine (65 ng/mL)	EDDP (1000 ng/mL)	Amphetamine (300 ng/mL)	Carboxy-THC (90 ng/mL)
Norketamine (240 ng/mL)	Methadone (700 ng/mL)	Methamphetamine (1900 ng/mL)	Fluoxetine (650 ng/mL)
			Norfluoxetine (310 ng/mL)

*The information presented here details how test samples were prepared, including any design specifications and preparation values. This information does not necessarily represent the results that could or should be obtained. When applicable, statistical analysis, including the calculation of Grand Mean statistics, will be performed on participant data. Final interpretation of the results should be deferred until consensus data is made available in the summary report.*

## **Summary Comments**

This test was designed to allow participants to assess their proficiency in the examination of urine samples for the presence and concentration of drugs and/or metabolites. Participants were supplied with four urine samples from individual cases with unique scenarios. Each of the four urine specimens was spiked with varying concentrations of specific drugs and/or metabolites in case-like ranges. The sample specifications are as follows: Item 1 contained 65 ng/mL ketamine and 240 ng/mL norketamine. Item 2 contained 700 ng/mL methadone and 1000 ng/mL EDDP. Item 3 contained 1900 ng/mL methamphetamine and 300 ng/mL amphetamine. Item 4 contained 90 ng/mL carboxy-THC, 650 ng/mL fluoxetine, and 310 ng/mL norfluoxetine. Refer to the Manufacturer's Information for preparation details.

A total of 128 participants returned data for this test.

Of the 121 participants who reported screening results for Item 1, the most commonly reported drug category was miscellaneous. Ketamine was detected by 76 participants and 50 detected norketamine. Of the 100 participants who reported confirmatory results, 94 reported the presence of ketamine and 65 reported norketamine.

Of the 119 participants who reported screening results for Item 2, the most commonly reported drug category was analgesics. Methadone was detected by 96 participants and 60 detected EDDP. Of the 107 participants who reported confirmatory results, 103 reported methadone and 80 reported EDDP.

Of the 117 participants who reported screening results for Item 3, the most commonly reported drug category was CNS stimulants. Methamphetamine was detected by 88 participants and 88 detected amphetamine. Of the 111 participants who reported confirmatory results, 108 reported methamphetamine and 104 reported amphetamine.

Of the 119 participants who reported screening results for Item 4, the most commonly reported drug categories were antidepressants and cannabinoids. Carboxy-THC was detected by 43 participants, 71 detected fluoxetine, and 15 detected norfluoxetine. Of the 104 participants who reported confirmatory results, 54 reported carboxy-THC, 86 reported fluoxetine and 19 reported norfluoxetine.

For all four items, the majority of the population used immunoassay, GC/MS and LC/MS/MS for screening, GC/MS and LC/MS/MS for confirmatory testing, and LC/MS/MS for quantitation.

The raw data was used to calculate the grand mean and standard deviation for each analyte, which are supplied to assist the participants and accrediting bodies in determining the acceptability of results. Participants with extreme data have been marked with an "X" and their results were excluded from the calculations of the grand mean and standard deviation. Extreme data has been determined using the Critical Value of  $h$  defined within ASTM E 691-23, and calculated for each analyte as  $\pm (CrH * STD)$  from the grand mean.

Due to the limited number of participants who reported quantitative data across all items, the analytes with sufficient data for statistical analysis include methamphetamine and amphetamine in Item 3, and carboxy-THC in Item 4. For Item 3, one participant was marked as extreme for both analytes, and an additional participant was marked as extreme for methamphetamine. No participant data was marked as extreme for carboxy-THC in Item 4.

# Screening Results - Item 1

TABLE 1A

**Item Scenario:**

A 30-year-old male was pulled over for reckless driving. Officers described the driver as detached with clearly impaired functioning and reasoning abilities. He was arrested and 30 minutes later displayed intense confusion and aggression towards those around him. A urine sample was collected within 4 hours of arrest.

**Item Contents and Preparation Concentration:** Ketamine (65 ng/mL)  
Norketamine (240 ng/mL)

WebCode	Category	Drug/Metabolite
24LENX	Miscellaneous	Ketamine
2GQUCE	No drugs detected utilizing screening methods.	
2K76PH	Miscellaneous	Ketamine Norketamine
2KAPDL	Miscellaneous	Ketamine Norketamine
2N93ZB	Miscellaneous	Ketamine Norketamine
2ZJFFQ	No drugs detected utilizing screening methods.	
3WXBWL	Miscellaneous	Ketamine Norketamine
3ZG6WT	Miscellaneous	Ketamine
4244QG	No drugs detected utilizing screening methods.	
47EG9F	Miscellaneous	Ketamine Norketamine
48AXKC	No drugs detected utilizing screening methods.	
4B9B7G	Miscellaneous	Ketamine Norketamine
4BA9FC	No drugs detected utilizing screening methods.	
4ET4GJ	Miscellaneous	Ketamine Norketamine
4ET77N	Miscellaneous	Ketamine Norketamine
4JPUMV	Miscellaneous	Ketamine
4V3UJN	No drugs detected utilizing screening methods.	
6EAJAR	No drugs detected utilizing screening methods.	
72ZHQ7	No drugs detected utilizing screening methods.	
73DT4D	Miscellaneous	Ketamine Norketamine

TABLE 1 A: Screening Results - Item 1

WebCode	Category	Drug/Metabolite
7D89RT	Miscellaneous	Ketamine Norketamine
7YEG9D	Miscellaneous	Ketamine Norketamine
933Z38	Miscellaneous	Ketamine Norketamine
9FNF4L	Miscellaneous	Ketamine
9GJVFH	No drugs detected utilizing screening methods.	
9K4QGP	Miscellaneous	Ketamine
9MPRZH	Miscellaneous	Ketamine Norketamine
A8DDK7	No drugs detected utilizing screening methods.	
A9NF4J	Miscellaneous	Ketamine Norketamine
AC6K3E	No drugs detected utilizing screening methods.	
AJ7WYC	Miscellaneous	Ketamine Norketamine
AKEAGD	No drugs detected utilizing screening methods.	
AL9V8J	Miscellaneous	Ketamine Norketamine
ALARHE	Miscellaneous	Ketamine Norketamine
ALDC7H	No drugs detected utilizing screening methods.	
APTMJL	Miscellaneous	Ketamine
AU8H24	No drugs detected utilizing screening methods.	
AXQC3B	No drugs detected utilizing screening methods.	
AXQERF	Miscellaneous	Ketamine
BHUH6B	Miscellaneous	Ketamine Norketamine
BJ4LFD	No drugs detected utilizing screening methods.	
BYGX98	Miscellaneous	Ketamine Norketamine
C4NN9R	Miscellaneous	Ketamine Norketamine
C7V78M	No drugs detected utilizing screening methods.	

TABLE 1 A: Screening Results - Item 1

WebCode	Category	Drug/Metabolite
CKQKA3	Miscellaneous	Ketamine Norketamine
CP7VM7	Miscellaneous	Ketamine Norketamine
CQ47HA	No drugs detected utilizing screening methods.	
DMEJYK	Miscellaneous	Ketamine
E2AZNH	Miscellaneous	Ketamine
EH2XRY	Miscellaneous	Ketamine Norketamine
ELZAMY	No drugs detected utilizing screening methods.	
EPK2Y2	Miscellaneous	Ketamine
F4WYG8	Miscellaneous	Ketamine Norketamine
F6RFU4	Miscellaneous	Ketamine Norketamine
FPUPBD	Miscellaneous	Ketamine Norketamine
FTAZNG	Miscellaneous	Ketamine
FY36GK	Miscellaneous	Ketamine Norketamine
FYFUHC	No drugs detected utilizing screening methods.	
GUZJ69	No drugs detected utilizing screening methods.	
GZRQNG	Miscellaneous	Ketamine
H9F2D3	Miscellaneous	Ketamine Norketamine
H9F438	No drugs detected utilizing screening methods.	
HFDTLW	No drugs detected utilizing screening methods.	
HQWACH	Miscellaneous	Ketamine Norketamine
J8Z4HH	Miscellaneous	Ketamine Norketamine
JD7XDD	Miscellaneous	Ketamine
JG4ERT	No drugs detected utilizing screening methods.	
JHL9QG	Miscellaneous	Ketamine Norketamine
JJX6X8	CNS Stimulants	Methamphetamine

TABLE 1 A: Screening Results - Item 1

WebCode	Category	Drug/Metabolite
JMCHZF	Miscellaneous	Ketamine
JWGMRW	Miscellaneous	Ketamine
K67XDB	Miscellaneous	Ketamine
K9TC7R	No drugs detected utilizing screening methods.	
KAM3C7	CNS Stimulants	Amphetamine
KWZQZW	Miscellaneous	Gamma-hydroxy butyrate (GHB)
LFM2Z2	Miscellaneous	Ketamine
LGZE3C	Miscellaneous	Ketamine
LHVW4D	Miscellaneous	Ketamine
MEQLPP	Miscellaneous	Ketamine Norketamine
NB2WGW	Miscellaneous	Ketamine Norketamine
NYB37N	Miscellaneous	Ketamine Norketamine
P9T7P8	Miscellaneous	Ketamine
Q6ABNZ	CNS Stimulants	Amphetamine
QAJQV4	Miscellaneous	Ketamine
QDH3TN	No drugs detected utilizing screening methods.	
QPWZV8	Miscellaneous	Ketamine
QXBL6B	Miscellaneous	Ketamine Norketamine
QZT7P6	Miscellaneous	Ketamine
R7YWUW	No drugs detected utilizing screening methods.	
RJ3HWL	No drugs detected utilizing screening methods.	
RVK2GH	No drugs detected utilizing screening methods.	
RWDVC2	Miscellaneous	Ketamine Norketamine
RZXMN4	Miscellaneous	Ketamine
T2M9UZ	No drugs detected utilizing screening methods.	
T3JQV2	Miscellaneous	Ketamine Norketamine
T6LMGP	Miscellaneous	Ketamine Norketamine

TABLE 1 A: Screening Results - Item 1

WebCode	Category	Drug/Metabolite
TJ82KP	Miscellaneous	Ketamine Norketamine
TMPDK7	Miscellaneous	Norketamine
TX4DTT	Miscellaneous	Ketamine Norketamine
UEECY7	Miscellaneous	Norketamine
V83TTH	Miscellaneous	Ketamine Norketamine
VNRZNU	No drugs detected utilizing screening methods.	
VRMULV	No drugs detected utilizing screening methods.	
VRQCKU	No drugs detected utilizing screening methods.	
VRQEAY	Miscellaneous	Ketamine
VYAHJL	Miscellaneous	Ketamine Norketamine
W8XT62	Miscellaneous	Ketamine
WJCQBQ	Miscellaneous	Ketamine Norketamine
WN8K9R	Miscellaneous	Ketamine Norketamine
WPD38M	No drugs detected utilizing screening methods.	
WQAHJK	No drugs detected utilizing screening methods.	
WRKGGE	No drugs detected utilizing screening methods.	
YAEWRP	Miscellaneous	Ketamine Norketamine
YDYQTW	Miscellaneous	Ketamine
YLTWNH	Miscellaneous	Ketamine Norketamine
YMNCZF	No drugs detected utilizing screening methods.	
YMYEKT	No drugs detected utilizing screening methods.	
YRFJJN	Miscellaneous	Ketamine Norketamine
ZBLENZ	Miscellaneous	Ketamine Norketamine
ZCHUZW	Miscellaneous	Ketamine
ZX2YKZ	No drugs detected utilizing screening methods.	

<b>Screening Response Summary for Item 1</b>		<b>Participants: 121 [ No Response: 7 ]</b>	
<u>Drug Category Totals</u>		<u>Drug/Metabolite Totals</u>	
<b>Miscellaneous</b>	79	<b>Ketamine</b>	76
<b>CNS Stimulants</b>	3	<b>Norketamine</b>	50
<b>No drugs detected utilizing screening methods:</b>	39		
<i>Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.</i>			

# Confirmatory Results - Item 1

TABLE 1B

**Item Scenario:**

A 30-year-old male was pulled over for reckless driving. Officers described the driver as detached with clearly impaired functioning and reasoning abilities. He was arrested and 30 minutes later displayed intense confusion and aggression towards those around him. A urine sample was collected within 4 hours of arrest.

**Item Contents and Preparation Concentration:** Ketamine (65 ng/mL)  
Norketamine (240 ng/mL)

### What drugs/metabolites were detected in Item 1?

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
24LENX	Ketamine	✓			
2GQUCE	Ketamine	✓			
	Norketamine	✓			
2K76PH	Ketamine	✓			
	Norketamine	✓			
2KAPDL	Ketamine	✓			
	Norketamine	✓			
2N93ZB	Ketamine	✓			
	Norketamine	✓			
2ZJFFQ	Ketamine	✓			
	Norketamine	✓			
3WXBWL	Ketamine	✓			
	Norketamine	✓			
3ZG6WT	Ketamine	✓			
47EG9F	Ketamine	✓			
	Norketamine	✓			
4B9B7G	Ketamine	✓			
	Norketamine	✓			
4BA9FC	Ketamine	✓			
	Norketamine	✓			
4ET4GJ	Ketamine	✓			
	Norketamine	✓			
4ET77N	Ketamine	✓			
	Norketamine	✓			
4JPUMV	Ketamine	✓			
6EAJAR	Ketamine	✓			
73DT4D	Ketamine	✓			
	Norketamine	✓			

TABLE 1B: Confirmatory Results - Item 1

<b>What drugs/metabolites were detected in Item 1?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
7D89RT	Ketamine	✓			
	Norketamine	✓			
7YEG9D	Ketamine	✓			
	Norketamine	✓			
933Z38	Ketamine	✓			
	Norketamine	✓			
9FNF4L	Ketamine	✓			
9GJVFH	Ketamine	✓			
	Norketamine	✓			
9K4QGP	Ketamine	✓			
9MPRZH	Ketamine	✓			
	Norketamine	✓			
A9NF4J	Norketamine	✓			
AJ7WYC	Ketamine	✓			
	Norketamine	✓			
AKEAGD	Ketamine	✓			
	Norketamine	✓			
AL9V8J	Ketamine	✓			
	Norketamine	✓			
ALARHE	Ketamine				
	Norketamine	✓			
ALDC7H	Ketamine	✓			
	Norketamine	✓			
APTMJL	ketamine	✓			
AXQERF	Ketamine	✓			
BHUH6B	Ketamine		96		ng/ml
	Norketamine		291		ng/ml
BJ4LFD	Norketamine	✓			
BYGX98	Ketamine	✓			
	Norketamine	✓			
C4NN9R	Ketamine		40.03	1.69	ng/mL
	Norketamine		34.33	1.4	ng/mL
CKQKA3	Ketamine	✓			
	Norketamine	✓			

TABLE 1B: Confirmatory Results - Item 1

<b>What drugs/metabolites were detected in Item 1?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
CP7VM7	Ketamine	✓			
	Norketamine	✓			
CQ47HA	Ketamine	✓			
	Norketamine	✓			
DMEJYK	Ketamine	✓			
E2AZNH	Ketamine	✓			
EH2XRY	Ketamine	✓			
ELZAMY	No drugs/metabolites detected utilizing confirmatory methods.				
EXQ7MC	Ketamine		0.020		mg/L
F4WYG8	Ketamine	✓			
	Norketamine	✓			
F6RFU4	Ketamine	✓			
	Norketamine	✓			
FPUPBD	Ketamine	✓			
	Norketamine	✓			
FTAZNG	Ketamine	✓			
FY36GK	Ketamine	✓			
	Norketamine	✓			
GZRQNG	Ketamine	✓			
H9F2D3	Ketamine	✓			
	Norketamine	✓			
H9F438	Ketamine	✓			
HFDTLW	Ketamine	✓			
	Norketamine	✓			
	Sertraline	✓			
HQWACH	Ketamine	✓			
	Norketamine		187.03	-	ng/mL
J8Z4HH	Ketamine	✓			
	Norketamine	✓			
JD7XDD	Ketamine	✓			
JHL9QG	Ketamine	✓			
	Norketamine	✓			
JJX6X8	No drugs/metabolites detected utilizing confirmatory methods.				

TABLE 1B: Confirmatory Results - Item 1

<b>What drugs/metabolites were detected in Item 1?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
JMCHZF	Ketamine	✓			
K67XDB	Ketamine	✓			
KAM3C7	Ketamine		89	28	ng/mL
LFM2Z2	Ketamine	✓			
	Norketamine	✓			
LGZE3C	Ketamine	✓			
LHVW4D	Ketamine	✓			
MEQLPP	Ketamine	✓			
NB2WGW	Ketamine		88.5		ng/ml
	Norketamine		245		ng/ml
NYB37N	Ketamine	✓			
	Norketamine	✓			
P9T7P8	Ketamine	✓			
PEJF2Q	Ketamine	✓			
	Norketamine	✓			
Q6ABNZ	Ketamine		86	27	ng/mL
QAJN7Y	Ketamine	✓			
	Norketamine	✓			
QAJQV4	Ketamine	✓			
QPWZV8	Ketamine	✓			
QXBL6B	Ketamine	✓			
QZT7P6	Ketamine	✓			
RWDVC2	Ketamine	✓			
	Norketamine	✓			
RZXMN4	Ketamine	✓			
T3JQV2	Ketamine	✓			
	Norketamine	✓			
T6LMGP	Ketamine	✓			
	Norketamine	✓			
TJ82KP	Ketamine	✓			
	Norketamine	✓			
TMPDK7	Norketamine		215.30		ng/mL
TX4DTT	Ketamine	✓			
	Norketamine	✓			

TABLE 1B: Confirmatory Results - Item 1

<b>What drugs/metabolites were detected in Item 1?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
UEECY7	Norketamine		193.04		ng/mL
V83TTH	Ketamine		90		ng/ml
	Norketamine		251		ng/ml
VEMQKQ	Ketamine	✓			
	Norketamine	✓			
VRQCKU	ketamine	✓			
	Norketamine	✓			
VRQEAY	Ketamine	✓			
VYAHJL	Ketamine	✓			
	Norketamine	✓			
W8XT62	Ketamine	✓			
WJCQBQ	Ketamine	✓			
	Norketamine	✓			
WN8K9R	Ketamine	✓			
	Norketamine	✓			
WPD38M	Ketamine	✓			
	Norketamine	✓			
WRKGGE	Ketamine	✓			
	Norketamine	✓			
WY2X9N	Ketamine	✓			
	Norketamine	✓			
YAEWRP	Ketamine	✓			
	Norketamine	✓			
YDYQTW	Ketamine	✓			
YLTWNH	Ketamine	✓			
	Norketamine	✓			
YRFJJN	Ketamine	✓			
	Norketamine	✓			
ZBLENZ	Ketamine	✓			
	Norketamine	✓			
ZCHUZW	Ketamine	✓			
ZX2YKZ	Ketamine	✓			
	Norketamine	✓			

**Confirmatory Response Summary for Item 1**

**Participants: 100 [ No Response: 28 ]**

Ketamine: 94

Norketamine: 65

Other Identified Drugs/Metabolites: 1

No Drugs/Metabolites Detected Utilizing Confirmatory Methods: 2

*Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.*

# **Raw Data - Item 1**

TABLE 1C

**Item 1 Raw Data - Ketamine**  
**Preparation concentration: 65 ng/mL**

<b>WebCode</b>	<b>List of Raw Data determinations (ng/mL)</b>	
C4NN9R	40.630	39.430
KAM3C7	110.11	89.680
NB2WGW	88.530	
Q6ABNZ	86.840	87.440

**Statistical Analysis for Item 1 - Ketamine**

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

**TABLE 1C: Raw Data - Item 1**  
**Item 1 Raw Data - Norketamine**  
**Preparation concentration: 240 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)				
C4NN9R	33.840	34.830			
HQWACH	181.36	189.70	189.10	183.62	191.35
NB2WGW	245.17				
TMPDK7	217.86	213.70	214.30		
UEECY7	192.58	196.40	190.10		

Statistical Analysis for Item 1 - Norketamine
Please note: Statistical analysis has not been provided due to the low number of raw data responses.

# Reporting Procedures - Item 1

TABLE 1D - Item 1

WebCode	Quantitative Reporting Procedures
BHUH6B	A single determination.
C4NN9R	The mean of duplicate/several determinations.
EXQ7MC	A single determination.
HQWACH	The mean of duplicate/several determinations.
KAM3C7	The lowest of the duplicates
NB2WGW	A single determination.
Q6ABNZ	The lowest duplicate concentration
TMPDK7	The mean of duplicate/several determinations.
UEECY7	The mean of duplicate/several determinations.
ZCHUZW	Qualitative Only

  

Response Summary for Item 1	Participants: 10
A single determination:	3 (30.0%)
The mean of duplicate/several determinations:	4 (40.0%)
Other:	3 (30.0%)

# Methods of Analysis - Item 1

TABLE 1E - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
24LENX	LC-HRMS/MS GC/MS	✓	✓	
2GQUCE	Immunoassay GC/MS	✓ ✓	✓	
2K76PH	Immunoassay GC/MS	✓ ✓	✓	
2KAPDL	Immunoassay GC/MS	✓ ✓	✓	
2N93ZB	LC/MS/MS	✓	✓	
2ZJFFQ	LC-QTOF GC/MS	✓	✓ ✓	
3WXBWL	Immunoassay GC/MS	✓ ✓	✓	
3ZG6WT	Immunoassay LC-HR/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
4244QG	LC-QTOF-MS	✓		
47EG9F	GC/MS LC-QTOF LC-QTOF-MS	✓ ✓	✓ ✓	
4B9B7G	Immunoassay GC/MS	✓ ✓	✓	
4BA9FC	LC/MS		✓	
4ET4GJ	Immunoassay GC/MS	✓ ✓	✓	
4ET77N	Immunoassay GC/MS	✓ ✓	✓	
4JPUMV	LC-HRMS/MS GC/MS Immunoassay	✓ ✓ ✓	✓ ✓	
4V3UJN	Immunoassay	✓		
6EAJAR	Immunoassay GC/MS LC/HRMS/MS (Orbitrap)	✓ ✓ ✓	✓ ✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
72ZHQ7	Immunoassay	✓		
73DT4D	Immunoassay GC/MS	✓ ✓		✓
7D89RT	Immunoassay LC-QTOF-MS LC/MS GC/MS	✓ ✓		✓ ✓
7YEG9D	Immunoassay GC/MS	✓ ✓		✓
933Z38	LC-QTOF-MS	✓		✓
9FNF4L	Immunoassay LC-HRMS/MS GC/MS	✓ ✓		✓
9GJVFH	Immunoassay GC/MS	✓ ✓		✓
9K4QGP	High Resolution Accurate Mass GC/MS	✓		✓
9MPRZH	Immunoassay GC/MS	✓ ✓		✓
A8DDK7	Immunoassay	✓		
A9NF4J	GC/MS	✓		✓
AC6K3E	LC-QTOF-MS	✓		
AJ7WYC	GC/MS Immunoassay LC/MS/MS	✓ ✓		✓ ✓
AKEAGD	Immunoassay GC/MS	✓		✓
AL9V8J	Immunoassay LC-QTOF-MS GC/MS	✓ ✓		✓
ALARHE	Immunoassay GC/MS	✓ ✓		✓
ALDC7H	GC/MS	✓		✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
APTMJL	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
AU8H24	Immunoassay	✓		
AXQC3B	LC-QTOF-MS	✓		
AXQERF	LC/MS/MS	✓	✓	
BHUH6B	LC/MS/MS	✓		
	LC-QTOF	✓		
	GC/MS		✓	✓
BJ4LFD	LC-QTOF	✓	✓	
	GC/MS		✓	
BYGX98	Immunoassay	✓		
	GC/MS	✓	✓	
C4NN9R	LC/MS/MS	✓	✓	✓
	GC/MS	✓	✓	
C7V78M	Immunoassay	✓		
CKQKA3	LC/MS/MS	✓	✓	
CP7VM7	Immunoassay	✓		
	GC/MS	✓	✓	
CQ47HA	Immunoassay	✓		
	GC/MS		✓	
DMEJYK	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
E2AZNH	LC-HRMS/MS	✓		
	GC/MS		✓	
EH2XRY	LC/MS/MS	✓	✓	
ELZAMY	LC/MS/MS	✓	✓	✓
EPK2Y2	Immunoassay	✓		
EXQ7MC	LC/MS/MS	✓	✓	✓
F4WYG8	Immunoassay	✓		
	GC/MS	✓	✓	
F6RFU4	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
FPUPBD	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
FTAZNG	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMSMS	✓	✓	
FY36GK	LC/MS/MS		✓	
	LC-QTOF	✓		
FYFUHC	Immunoassay	✓		
	LC/MS/MS	✓		
GUZJ69	Immunoassay	✓	✓	
GZRQNG	GC/MS		✓	
	LC-HRMS/MS	✓		
H9F2D3	LC/MS/MS	✓	✓	
	Rapid Chromatographic Immunoassay	✓		
H9F438	LC-QTOF	✓	✓	
	GC/MS		✓	
HFDTLW	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
HQWACH	LC/MS/MS	✓	✓	✓
J8Z4HH	LC/HRAM/MS	✓	✓	
JD7XDD	LC-HRMS/MS	✓	✓	
	GC/MS	✓	✓	
JG4ERT	Immunoassay	✓		
JHL9QG	LC-QTOF	✓	✓	
	GC/MS	✓		
	Immunoassay	✓		
	LC/MS/MS	✓		
	GC-QQQ	✓		
JJX6X8	LC/MS/MS	✓	✓	
JMCHZF	GC/MS	✓	✓	
	LC-HRMSMS	✓	✓	
	Immunoassay	✓		
JWGMRW	Immunoassay	✓		

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
K67XDB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
K9TC7R	Immunoassay	✓		
KAM3C7	Immunoassay	✓		
	LC/MS/MS		✓	✓
KWZQZW	Immunoassay	✓		
	GC/MS		✓	
LFM2Z2	Immunoassay	✓		
	GC/MS		✓	
LGZE3C	LC-HRMS/MS	✓		
	GC/MS		✓	
LHVW4D	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
MEQLPP	LC/MS/MS	✓		
	GC/MS		✓	
NB2WGW	LC/Orbitrap/MS	✓		
	LC/MS/MS		✓	✓
NYB37N	LC-QTOF	✓		
	GC/MS		✓	
P9T7P8	LC-HRMSMS	✓		
	GC/MS		✓	
PEJF2Q	GC/MS		✓	
Q6ABNZ	Immunoassay	✓		
	LC/MS/MS		✓	✓
QAJN7Y	LC/MS		✓	
QAJQV4	Immunoassay	✓		
	LC-HR-MSMS	✓		
	GC/MS		✓	
QDH3TN	Immunoassay	✓		
QPWZV8	LC/MS		✓	
	LC-HR/MS/MS	✓		
QXBL6B	LC/MS/MS	✓		
	GC/MS		✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
QZT7P6	GC/MS	✓	✓	
	LC- HRMS/MS	✓	✓	
	Immunoassay	✓		
R7YWUW	LC-QTOF-MS	✓		
RJ3HWL	Immunoassay	✓		
RVK2GH	Immunoassay	✓		
	Screening Drugs Kits	✓		
RWDVC2	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
RZXMN4	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
	Immunoassay	✓		
T2M9UZ	Immunoassay	✓		
T3JQV2	LC/MS/MS	✓		
	GC/MS		✓	
T6LMGP	GC/MS	✓	✓	
	Immunoassay	✓		
TJ82KP	Immunoassay	✓		
	GC/MS	✓	✓	
TMPDK7	LC/MS/MS		✓	
TX4DTT	GC/MS		✓	
	LC-QTOF-MS		✓	
UEECY7	LC/MS/MS		✓	
VEMQKQ	GC/MS		✓	
VRMULV	Immunoassay	✓		
VRQCKU	Immunoassay	✓		
	GC/MS		✓	
VRQEAY	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS	✓	✓	
VYAHJL	GC/MS	✓	✓	
	Immunoassay	✓		

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
W8XT62	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HR MS/MS	✓	✓	
WJCQBQ	Immunoassay	✓		
	GC/MS	✓	✓	
WN8K9R	Immunoassay	✓		
	GC/MS	✓	✓	
WPD38M	GC/MS		✓	
WQAHJK	Immunoassay	✓		
	GC-FID	✓		
WRKGGE	Immunoassay	✓		
	GC/MS		✓	
WY2X9N	GC/MS		✓	
YAEWRP	Immunoassay	✓		
	GC/MS	✓	✓	
YDYQTW	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
YLTWNH	Immunoassay	✓		
	GC/MS	✓	✓	
YMNCZF	Immunoassay	✓		
YMYEKT	Immunoassay	✓		
	LC/MS/MS	✓	✓	
YRFJN	GC/MS	✓	✓	
	Immunoassay	✓		
ZBLENZ	Immunoassay	✓		
	GC/MS		✓	
ZCHUZW	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
ZX2YKZ	Immunoassay	✓		
	LC/MS/MS		✓	

<b>Response Summary for Item 1 - Methods of Analysis</b>		<b>Participants: 123</b>		
	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>	
<b>Immunoassay:</b>	77	1	0	
<b>GC/MS:</b>	46	78	1	
<b>LC/MS:</b>	0	4	0	
<b>LC/MS/MS:</b>	18	20	7	
<b>LC-QTOF:</b>	8	5	0	
<b>LC-QTOF-MS:</b>	9	3	0	
<b>Other:</b>	30	16	0	

# Additional Comments for Item 1

TABLE 1F

WebCode	Item Comments
24LENX	IS: mephobarbital, mepivacaine, nalorphine
2N93ZB	Standard interne Fentanyl-d5
2ZJFFQ	ELISA: all assays negative; cocaine assay omitted due to kit expiration; no cocaine/metabolites detected by other analyses. Internal standards used for LC-QTOF analysis: fentanyl-D5, imipramine-D3, MDMA-D5, methaqualone-D7, triazolam-D4. Caffeine detected but not confirmed.
3ZG6WT	Mepivacaine used as internal standard.
47EG9F	ESTAZOLAM WAS USED AS AN INTERNAL STANDARD
4B9B7G	Internal standard for GC/MS screening and confirmation is Promazine.
4ET77N	Mepivacaine, n-Propylamphetamine and Hexobarbital were used as internal standards.
4JPUMV	Internal Standards: LC-HRMS/MS: mepivacaine/ mephobarbital GC/MS: mepivacaine
73DT4D	Internal standard used for general drug screen was promazine.
7YEG9D	Internal standards used: Promazine.
9FNF4L	Internal Standard: mepivacaine
9K4QGP	internal standard: mepivacaine, mephobarbital
9MPRZH	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards.
AKEAGD	SKF 525-A and NPA are the internal standards used for basic drug screen by GC/MS.
AL9V8J	Mepivacaine internal standard used for LC-QTOF-MS and GC/MS procedures.
APTMJL	internal standard used for gcms and lchrmsms was mepivacaine
BJ4LFD	Ketamine observed in LC-QTOF, but not confirmable with GC/MS since it was co-eluting with caffeine metabolite.
BYGX98	Promazine was used as the internal standard for the Drug Screen analysis.
C4NN9R	No internal standard was used.
C7V78M	Immunoassay screen performed by EMIT for six drug classes: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, and PCP. EMIT screen rendered negative results for all six drug classes.
CKQKA3	The cut-off value of norketamine and ketamine are 60 ng/mL for LC/MS/MS
CP7VM7	Promazine (ISTD) - Drug Screen for Urine
CQ47HA	The methods used were immunoassay and GC/MS
DMEJYK	Internal standard used was mepivacaine.
E2AZNH	Internal Standards for LC-HRMS/MS screening: Mepivacaine, Mephobarbital Internal Standards for GC/MS confirmation testing: Mepivacaine
EH2XRY	Preliminary testing indicated the possible presence of norketamine; confirmatory testing was not pursued due to the presence of another compound.
ELZAMY	We test for a limited drug panel including fentanyl, hydromorphone, MDEA, MDPV, sufentanil, xylazine

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
EPK2Y2	Ketamine cutoff: 50 ng/mL Creatinine Normal
FTAZNG	Internal Standard: Mepivacaine
FY36GK	Ketamine-D4 was used as an internal standard. Norketamine-D4 was used as an internal standard. The limit of detection was 25 ng/mL.
FYFUHC	Ketamine and Norketamine was detected on a expended panel but outside the scope of normal driving impairment case so not reported.
GZRQNG	mepivacaine & mephobarbital internal standards
H9F2D3	An iCassette (THC) test device was used to screen for THC, referred to in 1-5 as rapid chromatographic immunoassay.
HFDTLW	- The internal standard used was D3-codeine - All of the urine samples should be investigated using immunoassay as presumptive screening tests.
HQWACH	Method: precipitation with cold acetonitrile; Internal Standard: Cocaine D3; Detection limit (DL): 10 ng/mL; Column: Kinetex ® 2.6 µm Biphenyl 100 Å; Size: LC Column 100 X 2.1 mm.
JD7XDD	Internal Standards: Mepivacaine/Mephobarbital (LC-HRMS/MS) and Mepivacaine (GC/MS)
JHL9QG	Negative for cannabinoids by immunoassay. Negative for gamma hydroxybutyric acid.
JMCHZF	Istd-Mepivacaine for both
JWGMRW	Ketamine cutoff: 50 ng/mL Creatinine is Normal.
K67XDB	Internal Standard - Mepivacaine
KAM3C7	These results are from a pre-distribution analysis of 26-5671 [Participant Code].
LFM2Z2	Urine Screen results: ELISA Ketamine - Positive Miscellaneous is not a screening category on the laboratory report Scope for confirmation testing performed on 03/05/2026 included: amitriptyline, brompheniramine, chlorpheniramine, clomipramine, cyclobenzaprine, desipramine, dextromethorphan, diphenhydramine, doxepin, imipramine, ketamine, methadone, norketamine, nortriptyline, and tramadol. Internal Standard: carbinoxamine. Limit of Detection (for ketamine and norketamine): 10 ng/mL
LGHMR8	Item 1 not analyzed
LGZE3C	Internal Standard: mepivacaine (LC-HRMS/MS), mepivacaine/nalorphine (GC/MS).
LHVW4D	Internal standard: mepivacaine for GC/MS and LC-HRMS/MS Caffeine and cholesterol detected - not in the list of possible sample analyte.
MEQLPP	The LCMSMS screening method uses d6-zolpidem for an internal standard. The LOD for ketamine in this method is 10ng/mL. The GCMS confirmation method uses proadifen for an internal standard.
P9T7P8	Internal Standards used: Mepivacaine and Mephobarbital.
PEJF2Q	Internal Standard: SKF-525A
Q6ABNZ	Item 1 was analyzed using Immunoassay Drug Screen and Basic Drug Confirmation. The scope for Immunoassay Drug Screen is: amphetamine, barbiturates, benzodiazepines, buprenorphine, cocaine/benzoylcegonine, cannabinoids, carisoprodol, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine (PCP), tramadol, zolpidem. The scope for Basic Drug Confirmation is - Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD; Qualitatively: ephedrine/pseudoephedrine, psilocin
QAJN7Y	Screening not performed, waiting more test kits.
QAJQV4	Internal standard: Mepivacaine

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
QXBL6B	Norketamine was indicated in our screening procedure. Norketamine is not currently on our laboratory's drug reporting list. Confirmation testing was not performed to identify the presence or absence of norketamine.
QZT7P6	Internal Standard - Mepivacaine
RVK2GH	No drug was detected using our methods.
RZXMN4	GC/MS and LC-HRMS/MS Internal Standard: mepivacaine
T6LMGP	Promazine used for Internal Standard of the Drug Screen.
TJ82KP	Internal Standard: Promazine
TMPDK7	Cut off for ketamine and Nor Ketamine is 100ng/mL. Ketamine was also found but below cut-off value.
UEECY7	Cut off for ketamine and Nor Ketamine is 100ng/mL. Ketamine was also found but below cut-off value.
VEMQKQ	Tetracosan was used as an internal standard.
VRQCKU	Caffeine was detected - not reported.
W8XT62	Internal Standard-Mepivacaine
WY2X9N	* Internal standard: flurazepam * Sample preparation: L/L extraction. * The final extract is derivatized with BSTFA, and analyzed by GC/MS.
YDYQTW	LC/MS/MS method used was High Resolution Mass Spectrometry/Mass Spectrometry Mepivacaine was used as internal standard for both GC/MS and LC/MS/MS
YLTWNH	Promazine was used as an internal standard for GC/MS screen and confirmations.
YMYEKT	Additional LC-MS/MS screening and confirmation concluded ketamine and norketamine present. However, for Operating While Intoxicated cases, only immunoassay screening is performed unless special requests for additional testing are made. Therefore, to follow appropriate workflow testing, only results from immunoassay screening are reported.
ZBLENZ	We do not perform quantitative analysis on urine samples.
ZCHUZW	Internal Standards: Mepivacaine/Mephobarbital. Mepivacaine Immunoassay amp neg cal check and control failed on 2/26/26-needed to be repeated on 3/3/26

## Screening Results - Item 2

TABLE 2A

**Item Scenario:**

A 47-year-old female crashed into a cement traffic barrier early in the morning. She told police she was tired and had dozed off. Officers noted constricted pupils and droopy eyelids. She denied the use of any prescription drugs. A urine sample was collected at the hospital 6 hours later.

**Item Contents and Preparation Concentration:** EDDP (1000 ng/mL)  
Methadone (700 ng/mL)

WebCode	Category	Drug/Metabolite
24LENX	Analgesics	EDDP Methadone
2GQUCE	No drugs detected utilizing screening methods.	
2K76PH	Analgesics	Methadone
2KAPDL	Analgesics	EDDP Methadone
2N93ZB	Analgesics	EDDP Methadone
	Antidepressants	Amitriptyline
2ZJFFQ	Analgesics	
3WXBWL	Analgesics	EDDP Methadone
3ZG6WT	Analgesics	EDDP Methadone
4244QG	Analgesics	Methadone
47EG9F	Analgesics	EDDP Methadone
4B9B7G	Analgesics	EDDP Methadone
4BA9FC	Analgesics	Methadone
4ET4GJ	Analgesics	EDDP Methadone
4ET77N	Analgesics	EDDP Methadone
4JPUMV	Analgesics	EDDP Methadone
4V3UJN	Analgesics	Methadone
6EAJAR	No drugs detected utilizing screening methods.	
72ZHQ7	No drugs detected utilizing screening methods.	

TABLE 2 A: Screening Results - Item 2

WebCode	Category	Drug/Metabolite
73DT4D	Analgesics	EDDP Methadone
7D89RT	Analgesics	Methadone
7YEG9D	Analgesics	EDDP Methadone
89UNK8	Analgesics	EDDP Methadone
933Z38	Analgesics	EDDP Methadone
9FNF4L	Analgesics	EDDP Methadone
9GJVFH	No drugs detected utilizing screening methods.	
9K4QGP	Analgesics	EDDP Methadone
9MPRZH	Analgesics	Methadone
A8DDK7	Analgesics	Methadone
A9NF4J	Analgesics	EDDP Methadone
AC6K3E	Analgesics	Methadone
AJ7WYC	Analgesics	EDDP Methadone
AKEAGD	No drugs detected utilizing screening methods.	
AL9V8J	Analgesics	EDDP Methadone
ALARHE	Analgesics	EDDP Methadone
ALDC7H	Analgesics	Methadone
APTMJL	Analgesics	EDDP Methadone
AU8H24	No drugs detected utilizing screening methods.	
AXQC3B	Analgesics	Methadone
AXQERF	Analgesics	Methadone
BHUH6B	Analgesics	EDDP Methadone
BJ4LFD	Analgesics	

TABLE 2 A: Screening Results - Item 2

WebCode	Category	Drug/Metabolite
BYGX98	Analgesics	EDDP Methadone
C4NN9R	Analgesics Antidepressants	EDDP Methadone Amitriptyline
C7V78M	No drugs detected utilizing screening methods.	
CKQKA3	Analgesics	EDDP Methadone
CP7VM7	Analgesics	EDDP Methadone
CQ47HA	No drugs detected utilizing screening methods.	
DMEJYK	Analgesics	EDDP Methadone
E2AZNH	Analgesics	EDDP Methadone
EH2XRY	Analgesics	EDDP Methadone
ELZAMY	No drugs detected utilizing screening methods.	
EPK2Y2	Analgesics	Methadone
F4WYG8	Analgesics	EDDP Methadone
F6RFU4	Analgesics	Methadone
FPUPBD	Analgesics	EDDP Methadone
FTAZNG	Analgesics	EDDP Methadone
FY36GK	Analgesics	Methadone
FYFUHC	Analgesics	Methadone
GUZJ69	Analgesics	Methadone
GZRQNG	Analgesics	EDDP Methadone
H9F2D3	Analgesics	EDDP Methadone
H9F438	Analgesics	
HFDTLW	Analgesics	Methadone

TABLE 2 A: Screening Results - Item 2

WebCode	Category	Drug/Metabolite
HQWACH	Analgesics	EDDP Methadone
J8Z4HH	Analgesics	EDDP Methadone
JD7XDD	Analgesics	EDDP Methadone
JG4ERT	No drugs detected utilizing screening methods.	
JHL9QG	Analgesics	Methadone
JJX6X8	No drugs detected utilizing screening methods.	
JMCHZF	Analgesics	EDDP Methadone
JWGMRW	Analgesics	Methadone
K67XDB	Analgesics	EDDP Methadone
K9TC7R	No drugs detected utilizing screening methods.	
KAM3C7	Analgesics CNS Stimulants	Methadone Amphetamine
KWZQZW	Analgesics	Methadone
LFM2Z2	Analgesics	Methadone
LGZE3C	Analgesics	EDDP Methadone
LHVW4D	Analgesics	EDDP Methadone
MEQLPP	Analgesics	Methadone
NB2WGW	Analgesics	Methadone
P9T7P8	Analgesics	EDDP Methadone
Q6ABNZ	Analgesics CNS Stimulants	Methadone Amphetamine
QAJQV4	Analgesics	EDDP Methadone
QDH3TN	Analgesics	Methadone
QPWZV8	Analgesics	EDDP Methadone
QXBL6B	Analgesics	Methadone

TABLE 2 A: Screening Results - Item 2

WebCode	Category	Drug/Metabolite
QZT7P6	Analgesics	EDDP Methadone
R7YWUW	Analgesics	Methadone
RJ3HWL	No drugs detected utilizing screening methods.	
RVK2GH	Analgesics	Methadone
RWDVC2	Analgesics	EDDP Methadone
RZXMN4	Analgesics	EDDP Methadone
T2M9UZ	Analgesics	Methadone
T3JQV2	Analgesics	Methadone
T6LMGP	Analgesics	EDDP Methadone
TJ82KP	Analgesics	EDDP Methadone
TMPDK7	No drugs detected utilizing screening methods.	
TX4DTT	Analgesics	EDDP Methadone
UEECY7	No drugs detected utilizing screening methods.	
V83TTH	No drugs detected utilizing screening methods.	
VNRZNU	Analgesics	Methadone
VRMULV	No drugs detected utilizing screening methods.	
VRQCKU	Analgesics	Methadone
VRQEAY	Analgesics	EDDP Methadone
VYAHJL	Analgesics	EDDP Methadone
W8XT62	Analgesics	EDDP Methadone
WJCQBQ	Analgesics	EDDP Methadone
WN8K9R	Analgesics	EDDP Methadone
WPD38M	No drugs detected utilizing screening methods.	
WQAHJK	Analgesics	Methadone
WRKGGE	Analgesics	Methadone

TABLE 2 A: Screening Results - Item 2

WebCode	Category	Drug/Metabolite
YAEWRP	Analgesics	EDDP Methadone
YDYQTW	Analgesics	EDDP Methadone
YLTWNH	Analgesics	EDDP Methadone
YMNCZF	No drugs detected utilizing screening methods.	
YMYEKT	Analgesics	Methadone
YRFJJN	Analgesics	EDDP Methadone
ZCHUZW	Analgesics	EDDP Methadone
ZX2YKZ	No drugs detected utilizing screening methods.	

Screening Response Summary for Item 2		Participants: 119 [ No Response: 9 ]	
<u>Drug Category Totals</u>		<u>Drug/Metabolite Totals</u>	
<b>Analgesics</b>	99	<b>Methadone</b>	96
<b>Antidepressants</b>	2	<b>EDDP</b>	60
<b>No drugs detected utilizing screening methods:</b>	20		
<i>Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.</i>			

## Confirmatory Results - Item 2

TABLE 2B

**Item Scenario:**

A 47-year-old female crashed into a cement traffic barrier early in the morning. She told police she was tired and had dozed off. Officers noted constricted pupils and droopy eyelids. She denied the use of any prescription drugs. A urine sample was collected at the hospital 6 hours later.

**Item Contents and Preparation Concentration:** EDDP (1000 ng/mL)  
Methadone (700 ng/mL)

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
24LENX	EDDP	✓			
	Methadone	✓			
2GQUCE	EDDP	✓			
	Methadone	✓			
2K76PH	Methadone	✓			
2KAPDL	EDDP	✓			
	Methadone	✓			
2N93ZB	EDDP	✓			
	Methadone	✓			
	Amitriptyline	✓			
2ZJFFQ	EDDP	✓			
	Methadone	✓			
3WXBWL	EDDP	✓			
	Methadone	✓			
3ZG6WT	EDDP	✓			
	Methadone	✓			
4244QG	Methadone	✓			
47EG9F	EDDP	✓			
	Methadone	✓			
48AXKC	Methadone	✓			
4B9B7G	EDDP	✓			
	Methadone	✓			
4BA9FC	EDDP	✓			
	Methadone	✓			
4ET4GJ	EDDP	✓			
	Methadone	✓			
4ET77N	EDDP	✓			
	Methadone	✓			
4JPUMV	EDDP	✓			
	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

<b>What drugs/metabolites were detected in Item 2?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
4V3UJN	Methadone	✓			
6EAJAR	EDDP	✓			
	Methadone	✓			
73DT4D	EDDP	✓			
	Methadone	✓			
7D89RT	Methadone	✓			
7YEG9D	EDDP	✓			
	Methadone	✓			
89UNK8	EDDP	✓			
	Methadone	✓			
933Z38	EDDP	✓			
	Methadone	✓			
9FNF4L	EDDP	✓			
	Methadone	✓			
9GJVFH	Methadone	✓			
9K4QGP	EDDP	✓			
	Methadone	✓			
9MPRZH	EDDP	✓			
	Methadone	✓			
A9NF4J	EDDP	✓			
	Methadone	✓			
AC6K3E	Methadone	✓			
AJ7WYC	EDDP	✓			
	Methadone	✓			
AKEAGD	Methadone	✓			
AL9V8J	EDDP	✓			
	Methadone	✓			
ALARHE	EDDP	✓			
	Methadone	✓			
ALDC7H	EDDP	✓			
	Methadone	✓			
APTMJL	EDDP	✓			
	methadone	✓			
AXQC3B	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

<b>What drugs/metabolites were detected in Item 2?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
AXQERF	EDDP	✓			
	Methadone	✓			
BHUH6B	EDDP	✓			
	Methadone		868		ng/ml
BJ4LFD	EDDP	✓			
	Methadone	✓			
BYGX98	EDDP	✓			
	Methadone	✓			
C4NN9R	EDDP		604.00	0.91	ng/mL
	Methadone		467.57	5.39	ng/mL
	Amitriptyline		305.55	1.69	ng/mL
CKQKA3	EDDP	✓			
	Methadone	✓			
CP7VM7	EDDP	✓			
	Methadone	✓			
CQ47HA	EDDP	✓			
	Methadone	✓			
DMEJYK	EDDP	✓			
	Methadone	✓			
E2AZNH	EDDP	✓			
	Methadone	✓			
EH2XRY	EDDP	✓			
	Methadone	✓			
ELZAMY	No drugs/metabolites detected utilizing confirmatory methods.				
EXQ7MC	EDDP		0.97		mg/L
	Methadone		0.60		mg/L
F4WYG8	EDDP	✓			
	Methadone	✓			
F6RFU4	Methadone	✓			
FPUPBD	EDDP	✓			
	Methadone	✓			
FTAZNG	EDDP	✓			
	Methadone	✓			
FY36GK	Methadone	✓			
FYFUHC	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

<b>What drugs/metabolites were detected in Item 2?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
GUZJ69	Methadone	✓			
GZRQNG	EDDP	✓			
	Methadone	✓			
H9F2D3	EDDP	✓			
	Methadone	✓			
H9F438	EDDP	✓			
	Methadone	✓			
HFDTLW	EDDP	✓			
	Methadone	✓			
HQWACH	EDDP	✓			
	Methadone		561.84	-	ng/mL
J8Z4HH	EDDP	✓			
	Methadone	✓			
JD7XDD	EDDP	✓			
	Methadone	✓			
JHL9QG	Methadone	✓			
JMCHZF	EDDP	✓			
	Methadone	✓			
K67XDB	EDDP	✓			
	Methadone	✓			
KAM3C7	No drugs/metabolites detected utilizing confirmatory methods.				
LFM2Z2	Methadone	✓			
LGZE3C	EDDP	✓			
	Methadone	✓			
LHVW4D	EDDP	✓			
	Methadone	✓			
MEQLPP	Methadone	✓			
NB2WGW	Methadone	✓			
P9T7P8	EDDP	✓			
	Methadone	✓			
PEJF2Q	EDDP	✓			
	Methadone	✓			
Q6ABNZ	No drugs/metabolites detected utilizing confirmatory methods.				

TABLE 2B: Confirmatory Results - Item 2

<b>What drugs/metabolites were detected in Item 2?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
QAJN7Y	EDDP	✓			
QAJQV4	EDDP	✓			
	Methadone	✓			
QPWZV8	EDDP	✓			
	Methadone	✓			
QXBL6B	Methadone	✓			
QZT7P6	EDDP	✓			
	Methadone	✓			
R7YWUW	Methadone	✓			
RWDVC2	EDDP	✓			
	Methadone	✓			
RZXMN4	EDDP	✓			
	Methadone	✓			
T2M9UZ	Methadone	✓			
T3JQV2	Methadone	✓			
T6LMGP	EDDP	✓			
	Methadone	✓			
TJ82KP	EDDP	✓			
	Methadone	✓			
TX4DTT	EDDP	✓			
	Methadone	✓			
VEMQKQ	EDDP	✓			
	Methadone	✓			
VNRZNU	Methadone	✓			
VRQCKU	Methadone	✓			
VRQEAY	EDDP	✓			
	Methadone	✓			
VYAHJL	EDDP	✓			
	Methadone	✓			
W8XT62	EDDP	✓			
	Methadone	✓			
WJCQBQ	EDDP	✓			
	Methadone	✓			
WN8K9R	EDDP	✓			
	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

<b>What drugs/metabolites were detected in Item 2?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
WPD38M	EDDP	✓			
	Methadone	✓			
WQAHJK	EDDP		850		ng/ml
	Methadone		470		ng/ml
WRKGGE	EDDP	✓			
	Methadone	✓			
WY2X9N	EDDP	✓			
	Methadone	✓			
YAEWRP	EDDP	✓			
	Methadone	✓			
YDYQTW	EDDP	✓			
	Methadone	✓			
YLTWNH	EDDP	✓			
	Methadone	✓			
YMYEKT	Methadone	✓			
YRFJJN	EDDP	✓			
	Methadone	✓			
ZCHUZW	EDDP	✓			
	Methadone	✓			
ZX2YKZ	EDDP	✓			
	Methadone	✓			

<b>Confirmatory Response Summary for Item 2</b>	<b>Participants: 107 [ No Response: 21 ]</b>
EDDP: 80	
Methadone: 103	
Other Identified Drugs/Metabolites: 2	
No Drugs/Metabolites Detected Utilizing Confirmatory Methods: 3	
<i>Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.</i>	

# **Raw Data - Item 2**

## TABLE 2C

### **Item 2 Raw Data - EDDP Preparation concentration: 1000 ng/mL**

<b>WebCode</b>	<b>List of Raw Data determinations (ng/mL)</b>	
C4NN9R	604.65	603.40

**Statistical Analysis for Item 2 - EDDP**

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

**TABLE 2C: Raw Data - Item 2**  
**Item 2 Raw Data - Methadone**  
**Preparation concentration: 700 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)				
C4NN9R	471.38	463.80			
HQWACH	531.34	566.10	553.90	570.68	587.14

Statistical Analysis for Item 2 - Methadone
Please note: Statistical analysis has not been provided due to the low number of raw data responses.

## Reporting Procedures - Item 2

TABLE 2D - Item 2

WebCode	Quantitative Reporting Procedures
BHUH6B	A single determination.
C4NN9R	The mean of duplicate/several determinations.
EXQ7MC	A single determination.
HQWACH	The mean of duplicate/several determinations.
QAJN7Y	A single determination.
RVK2GH	A single determination.
WQAHJK	External Analysis
ZCHUZW	Qualitative Only

Response Summary for Item 2	Participants: 8
A single determination:	4 (50.0%)
The mean of duplicate/several determinations:	2 (25.0%)
Other:	2 (25.0%)

## Methods of Analysis - Item 2

TABLE 2E - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
24LENX	LC-HRMS/MS GC/MS	✓	✓	
2GQUCE	Immunoassay GC/MS	✓ ✓	✓	
2K76PH	Immunoassay GC/MS	✓ ✓	✓	
2KAPDL	Immunoassay GC/MS	✓ ✓	✓	
2N93ZB	LC/MS/MS	✓	✓	
2ZJFFQ	Immunoassay LC-QTOF GC/MS	✓ ✓	✓ ✓	
3WXBWL	Immunoassay GC/MS	✓ ✓	✓	
3ZG6WT	Immunoassay GC/MS LC-HR/MS/MS	✓ ✓ ✓	✓ ✓	
4244QG	LC-QTOF-MS LC/MS/MS	✓	✓	
47EG9F	GC/MS LC-QTOF LC-QTOF-MS	✓ ✓	✓ ✓	
4B9B7G	Immunoassay GC/MS	✓ ✓	✓	
4BA9FC	GC/MS		✓	
4ET4GJ	Immunoassay GC/MS	✓ ✓	✓	
4ET77N	Immunoassay GC/MS	✓ ✓	✓	
4JPUMV	LC-HRMS/MS GC/MS Immunoassay	✓ ✓ ✓	✓ ✓	
4V3UJN	Immunoassay LC/MS/MS	✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
6EAJAR	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/HRMS/MS (Orbitrap)	✓	✓	
72ZHQ7	Immunoassay	✓		
73DT4D	Immunoassay	✓		
	GC/MS	✓	✓	
7D89RT	LC-QTOF	✓		
	LC/MS/MS		✓	
7YEG9D	Immunoassay	✓		
	GC/MS	✓	✓	
89UNK8	Immunoassay	✓		
	LC-QTOF	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
933Z38	LC-QTOF-MS	✓		
			✓	
9FNF4L	Immunoassay	✓		
	LC-HRMS/MS	✓		
	GC/MS		✓	
9GJVFH	Immunoassay	✓		
	GC/MS	✓	✓	
9K4QGP	High Resolution Accurate Mass	✓		
	GC/MS		✓	
9MPRZH	Immunoassay	✓		
	GC/MS	✓	✓	
A8DDK7	Immunoassay	✓		
A9NF4J	Immunoassay	✓		
	GC/MS	✓	✓	
AC6K3E	LC-QTOF-MS	✓		
	LC/MS/MS		✓	
AJ7WYC	GC/MS	✓		
	Immunoassay	✓		
	LC/MS/MS		✓	
AKEAGD	Immunoassay	✓		
	GC/MS		✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
AL9V8J	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
ALARHE	Immunoassay	✓		
	GC/MS	✓	✓	
ALDC7H	Immunoassay	✓		
	GC/MS		✓	
APTMJL	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
AU8H24	Immunoassay	✓		
AXQC3B	LC-QTOF-MS	✓		
	LC/MS/MS		✓	
AXQERF	LC/MS/MS	✓	✓	
BHUH6B	LC/MS/MS	✓		
	LC-QTOF	✓		
	GC/MS		✓	✓
BJ4LFD	Immunoassay	✓		
	LC-QTOF	✓	✓	
	GC/MS		✓	
BYGX98	Immunoassay	✓		
	GC/MS	✓	✓	
C4NN9R	LC/MS/MS	✓	✓	✓
	GC/MS	✓	✓	
C7V78M	Immunoassay	✓		
CKQKA3	Immunoassay	✓		
	LC/MS/MS	✓	✓	
CP7VM7	Immunoassay	✓		
	GC/MS	✓	✓	
CQ47HA	Immunoassay	✓		
	GC/MS		✓	
DMEJYK	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
E2AZNH	LC-HRMS/MS	✓		
	GC/MS		✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
EH2XRY	LC/MS/MS	✓	✓	
ELZAMY	LC/MS/MS	✓	✓	✓
EPK2Y2	Immunoassay	✓		
EXQ7MC	LC/MS/MS	✓	✓	✓
F4WYG8	Immunoassay GC/MS	✓ ✓	✓	
F6RFU4	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓	
FPUPBD	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
FTAZNG	Immunoassay GC/MS LC-HRMSMS	✓ ✓ ✓	✓ ✓	
FY36GK	LC-QTOF LC/MS/MS	✓	✓	
FYFUHC	Immunoassay LC/MS/MS	✓	✓	
GUZJ69	Immunoassay LC/MS/MS	✓	✓	
GZRQNG	GC/MS LC-HRMS/MS	✓	✓	
H9F2D3	LC/MS/MS Rapid Chromatographic Immunoassay	✓ ✓	✓	
H9F438	Immunoassay LC-QTOF GC/MS	✓ ✓	✓ ✓	
HFDTLW	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
HQWACH	LC/MS/MS	✓	✓	✓
J8Z4HH	LC/HRAM/MS	✓	✓	
JD7XDD	LC-HRMS/MS GC/MS	✓ ✓	✓ ✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
JG4ERT	Immunoassay	✓		
JHL9QG	LC-QTOF	✓	✓	
	GC/MS	✓		
	LC/MS/MS	✓		
	Immunoassay	✓		
	GC-QQQ	✓		
JJX6X8	LC/MS/MS	✓		
JMCHZF	GC/MS	✓	✓	
	LC-HRMSMS	✓	✓	
	Immunoassay	✓		
JWGMRW	Immunoassay	✓		
K67XDB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
K9TC7R	Immunoassay	✓		
KAM3C7	Immunoassay	✓		
	LC/MS/MS		✓	✓
KWZQZW	Immunoassay	✓		
	GC/MS		✓	
LFM2Z2	Immunoassay	✓		
	GC/MS		✓	
LGZE3C	LC-HRMS/MS	✓		
	GC/MS		✓	
LHVW4D	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
MEQLPP	LC/MS/MS	✓		
	GC/MS		✓	
NB2WGW	LC/Orbitrap/MS	✓		
	LC-QTOF-MS		✓	
P9T7P8	LC-HRMSMS	✓		
	GC/MS		✓	
PEJF2Q	GC/MS		✓	
Q6ABNZ	Immunoassay	✓		
	LC/MS/MS		✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
QAJN7Y	LC/MS		✓	
QAJQV4	Immunoassay	✓		
	LC-HR-MSMS	✓		
	GC/MS		✓	
QDH3TN	Immunoassay	✓		
QPWZV8	GC/MS		✓	
	LC-HR/MS/MS	✓		
QXBL6B	LC/MS/MS	✓		
	GC/MS		✓	
QZT7P6	GC/MS	✓	✓	
	LC- HRMS/MS	✓	✓	
	Immunoassay	✓		
R7YWUW	LC-QTOF-MS	✓		
	LC/MS/MS		✓	
RJ3HWL	Immunoassay	✓		
RVK2GH	GC/MS	✓	✓	
RWDVC2	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
RZXMN4	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
	Immunoassay	✓		
T2M9UZ	Immunoassay	✓		
	LC/MS/MS		✓	
T3JQV2	LC/MS/MS	✓		
	GC/MS		✓	
T6LMGP	GC/MS	✓	✓	
	Immunoassay	✓		
TJ82KP	Immunoassay	✓		
	GC/MS	✓	✓	
TMPDK7	Immunoassay	✓		
TX4DTT	GC/MS		✓	
	LC-QTOF-MS		✓	
UEECY7	Immunoassay	✓		

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
VEMQKQ	GC/MS		✓	
VNRZNU	Immunoassay GC/MS	✓	✓	
VRMULV	Immunoassay	✓		
VRQCKU	Immunoassay GC/MS	✓	✓	
VRQEAY	Immunoassay GC/MS LC-HRMS	✓ ✓ ✓	✓ ✓	
VYAHJL	Immunoassay GC/MS	✓ ✓	✓	
W8XT62	Immunoassay GC/MS LC-HR MS/MS	✓ ✓ ✓	✓ ✓	
WJCQBQ	Immunoassay GC/MS	✓ ✓	✓	
WN8K9R	Immunoassay GC/MS	✓ ✓	✓	
WPD38M	GC/MS		✓	
WQAHJK	Immunoassay GC-FID LC/MS/MS	✓ ✓	✓	✓
WRKGGE	Immunoassay GC/MS	✓	✓	
WY2X9N	GC/MS		✓	
YAEWRP	Immunoassay GC/MS	✓ ✓	✓	
YDYQTW	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
YLTWNH	Immunoassay GC/MS	✓ ✓	✓	
YMNCZF	Immunoassay	✓		
YMYEKT	Immunoassay LC/MS/MS	✓ ✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
YRFJJN	GC/MS	✓	✓	
	Immunoassay	✓		
ZCHUZW	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
ZX2YKZ	Immunoassay	✓		
	LC/MS/MS		✓	

Response Summary for Item 2 - Methods of Analysis			Participants: 123
	Screening	Confirmatory	Quantitation
<b>Immunoassay:</b>	84	0	0
<b>GC/MS:</b>	46	79	1
<b>LC/MS:</b>	0	1	0
<b>LC/MS/MS:</b>	18	28	6
<b>LC-QTOF:</b>	9	4	0
<b>LC-QTOF-MS:</b>	8	4	0
<b>Other:</b>	29	16	0

## **Additional Comments for Item 2**

TABLE 2F

WebCode	Item Comments
24LENX	IS: mephobarbital, mepivacaine, nalorphine
2N93ZB	Standard interne codeine-d3;
2ZJFFQ	ELISA: positive for Methadone; cocaine assay omitted due to kit expiration; no cocaine/metabolites detected by other analyses. Internal standards used for LC-QTOF analysis: fentanyl-D5, imipramine-D3, MDMA-D5, methaqualone-D7, triazolam-D4. Caffeine detected but not confirmed.
3ZG6WT	Mepivacaine used as internal standard.
4244QG	Methadone LOD set at 50ng/mL
47EG9F	ETAZOLAM WAS USED AS AN INTERNAL STANDARD
4B9B7G	Internal standard for GC/MS screening and confirmation is Promazine.
4ET77N	Mepivacaine, n-Propylamphetamine and Hexobarbital were used as internal standards.
4JPUMV	Internal Standards: LC-HRMS/MS: mepivacaine/ mephobarbital GC/MS: mepivacaine
73DT4D	Internal standard used for general drug screen was promazine.
7YEG9D	Internal standards used: Promazine.
9FNF4L	Internal Standard: mepivacaine
9K4QGP	internal standard: mepivacaine, mephobarbital
9MPRZH	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards.
AC6K3E	Methadone LOD set at 50 ng/mL
AJ7WYC	Methadone and EDDP confirmatory analysis performed using an ad hoc laboratory method.
AKEAGD	SKF 525-A and NPA are the internal standards used for basic drug screen by GC/MS.
AL9V8J	Internal Standard used: Mepivacaine
APTMJL	internal standard used for gcms and lchrmsms was mepivacaine
AXQC3B	Methadone LOD set at 50ng/mL
BYGX98	Promazine was used as the internal standard for the Drug Screen analysis.
C4NN9R	No internal standard was used.
C7V78M	Immunoassay screen performed by EMIT for six drug classes: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, and PCP. EMIT screen rendered negative results for all six drug classes.
CKQKA3	The cut-off value of EDDP and methadone are 50 ng/mL for LC/MS/MS
CP7VM7	Promazine (ISTD) - Drug Screen for Urine
CQ47HA	The methods used were immunoassay and GC/MS
DMEJYK	Internal standard used was mepivacaine.
E2AZNH	Internal standards used for LC-HRMS/MS screening: Mepivacaine, Mephobarbital Internal standard used for GC/MS confirmation testing: Mepivacaine

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
ELZAMY	We test for a limited drug panel including fentanyl, hydromorphone, MDEA, MDPV, sufentanil, xylazine
EPK2Y2	Methadone cutoff: 150 ng/mL Creatinine Normal.
FTAZNG	Internal Standard: Mepivacaine
FY36GK	Methadone-D9 was used as an internal standard. The limit of detection was 12.5 ng/mL.
FYFUHC	EDDP was detected on expended scope of testing but not report because it is not a regular part of driving impairment cases
GZRQNG	mepivacaine & mephobarbital internal standards
H9F2D3	An iCassette (THC) test device was used to screen for THC, referred to in 2-5 as rapid chromatographic immunoassay.
HFDTLW	- The internal standard used was D3-codeine - All of the urine samples should be investigated using immunoassay as presumptive screening tests.
HQWACH	Method: precipitation with cold acetonitrile; Internal Standard: Fentanyl D5; Detection limit (DL): 10 ng/mL; Column: Kinetex® 2.6 µm Biphenyl 100 Å; Size: LC Column 100 X 2.1 mm.
JD7XDD	Internal Standards: Mepivacaine/Mephobarbital (LC-HRMS/MS) and Mepivacaine (GC/MS)
JHL9QG	Methadone metabolites also detected. Negative for cannabinoids by immunoassay. Negative for gamma hydroxybutyric acid.
JMCHZF	Istd-Mepivacaine for both
JWGMRW	Methadone cutoff: 150 ng/mL Creatinine is Normal.
K67XDB	Internal Standard - Mepivacaine
KAM3C7	These results are from a pre-distribution analysis of 26-5671 [Participant Code]. This sample screened presumptive positive for amphetamine. Upon confirmation of the amphetamine result using our basic drugs confirmation method, no drugs were detected. The scope of our method is: Basic Drug Confirmation (Liquid Chromatography/Tandem Mass Spectrometry LC/MS/MS): Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD Qualitatively: ephedrine/pseudoephedrine, psilocin This sample also screened presumptive positive for methadone, however, our laboratory does not currently have a validated confirmation method for methadone so confirmation of this result was not performed.
LFM2Z2	Urine Screen results: EMIT Methadone - Positive Analgesics is not a screening category on the laboratory report Scope for confirmation testing performed on 03/05/2026 included: amitriptyline, brompheniramine, chlorpheniramine, clomipramine, cyclobenzaprine, desipramine, dextromethorphan, diphenhydramine, doxepin, imipramine, ketamine, methadone, norketamine, nortriptyline, and tramadol. Internal Standard: carbinoxamine. Limit of Detection (for methadone): 20 ng/mL
LGHMR8	Item 2 not analyzed
LGZE3C	Internal Standard: mepivacaine (LC-HRMS/MS), mepivacaine/nalorphine (GC/MS).
LHVW4D	Internal standard: mepivacaine for GC/MS and LC-HRMS/MS Caffeine and cholesterol detected - not in the list of possible sample analyte.
MEQLPP	The LCMSMS screening method uses d5-fentanyl for an internal standard. The LOD for methadone in this method is 5ng/mL. The GCMS confirmation method uses proadifen for an internal standard.
P9T7P8	Internal Standards used: Mepivacaine, Mephobarbital, and Nalorphine.
PEJF2Q	Internal Standard: SKF-525A

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
Q6ABNZ	Item 2 was analyzed using Immunoassay Drug Screen and Basic Drug Confirmation. The scope for Immunoassay Drug Screen is: amphetamine, barbiturates, benzodiazepines, buprenorphine, cocaine/benzoylecgonine, cannabinoids, carisoprodol, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine (PCP), tramadol, zolpidem. The scope for Basic Drug Confirmation is - Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD; Qualitatively: ephedrine/pseudoephedrine, psilocin. Methadone could not be confirmed, as the WSCL is unable to currently confirm and quantitate this class of drugs. These results are presumptive only.
QAJN7Y	No screening test performed.
QAJQV4	Internal standard: mepivacaine
QZT7P6	Internal Standard - Mepivacaine
R7YWUW	Methadone LOD set at 50ng/mL
RZXMN4	GC/MS & LC-HRMS/MS Internal Standard: mepivacaine
T6LMGP	Promazine used as Internal Standard for Drug Screen
TJ82KP	Internal Standard: Promazine
VEMQKQ	Tetracosan was used as an internal standard.
VRQCKU	Caffeine and EDDP (Methadone metabolite) were detected - not reported.
W8XT62	Internal Standard-Mepivacaine
WQAHJK	Confirmatory analysis performed externally therefore no information available.
WY2X9N	* Internal standard: flurazepam * Sample preparation: L/L extraction. * The final extract is derivatized with BSTFA, and analyzed by GC/MS.
YDYQTW	LC/MS/MS method used was High Resolution Mass Spectrometry/Mass Spectrometry Mepivacaine was used as internal standard for both GC/MS and LC/MS/MS
YLTWNH	Promazine used as an internal standard for GC/MS screen and confirmations.
YMYEKT	EDDP also detected with additional testing but not included in OWI workflow reporting.
ZBLENZ	Item was not tested.
ZCHUZW	Internal Standards: Mepivacaine/Mephobarbital. Mepivacaine Immunoassay amp neg cal check and control failed on 2/26/26-needed to be repeated on 3/3/26

# Screening Results - Item 3

TABLE 3A

**Item Scenario:**

A mother was asked to submit a urine sample for testing after a family caseworker contacted police about possible child endangerment. A visiting family member reportedly witnessed the mother using drugs inside of their home the night prior and accused her of misusing the child's medication.

**Item Contents and Preparation Concentration:** Amphetamine (300 ng/mL)  
Methamphetamine (1900 ng/mL)

WebCode	Category	Drug/Metabolite
24LENX	CNS Stimulants	Amphetamine Methamphetamine
2GQUCE	CNS Stimulants	Amphetamine Methamphetamine
2K76PH	CNS Stimulants	Amphetamine Methamphetamine
2KAPDL	CNS Stimulants	
2N93ZB	CNS Stimulants	Methamphetamine
2ZJFFQ	CNS Stimulants	
3WXBWL	CNS Stimulants	
3ZG6WT	CNS Stimulants	Amphetamine Methamphetamine
4244QG	CNS Stimulants	Amphetamine Methamphetamine
47EG9F	CNS Stimulants	Amphetamine Methamphetamine
4B9B7G	CNS Stimulants	Amphetamine Methamphetamine
4BA9FC	CNS Stimulants	Amphetamine
4ET4GJ	CNS Stimulants	
4ET77N	CNS Stimulants	Amphetamine Methamphetamine
4JPUMV	CNS Stimulants	Amphetamine Methamphetamine
4V3UJN	CNS Stimulants	Amphetamine Methamphetamine
6EAJAR	CNS Stimulants	Amphetamine Methamphetamine
72ZHQ7	CNS Stimulants	Amphetamine Methamphetamine

TABLE 3 A: Screening Results - Item 3

WebCode	Category	Drug/Metabolite
73DT4D	CNS Stimulants	
7YEG9D	CNS Stimulants	Amphetamine Methamphetamine
89UNK8	CNS Stimulants	Amphetamine Methamphetamine
933Z38	CNS Stimulants	Amphetamine Methamphetamine
9FNF4L	CNS Stimulants	Amphetamine Methamphetamine
9GJVFH	CNS Stimulants	Amphetamine Methamphetamine Methylenedioxyamphetamine (MDA) Methylenedioxymethamphetamine (MDMA)
9K4QGP	CNS Stimulants	Amphetamine Methamphetamine
9MPRZH	Analgesics CNS Stimulants	Fentanyl Methamphetamine
A8DDK7	CNS Stimulants	Amphetamine
A9NF4J	CNS Stimulants	Amphetamine Methamphetamine
AC6K3E	CNS Stimulants	Amphetamine Methamphetamine
AJ7WYC	CNS Stimulants	Amphetamine Methamphetamine
AKEAGD	CNS Stimulants	Amphetamine Methamphetamine
AL9V8J	CNS Stimulants	Amphetamine Methamphetamine
ALARHE	CNS Stimulants	
ALDC7H	CNS Stimulants	Amphetamine Methamphetamine
APTMJL	CNS Stimulants	Amphetamine Methamphetamine
AU8H24	CNS Stimulants	Amphetamine Methamphetamine

TABLE 3 A: Screening Results - Item 3

WebCode	Category	Drug/Metabolite
AXQC3B	CNS Stimulants	Amphetamine Methamphetamine
AXQERF	CNS Stimulants	Amphetamine Methamphetamine
BHUH6B	CNS Stimulants	Amphetamine Methamphetamine
BJ4LFD	CNS Stimulants	
BYGX98	CNS Stimulants	
C4NN9R	CNS Stimulants	Amphetamine Methamphetamine
C7V78M	CNS Stimulants	
CKQKA3	CNS Stimulants	Amphetamine Methamphetamine
CP7VM7	CNS Stimulants	
CQ47HA	No drugs detected utilizing screening methods.	
DMEJYK	CNS Stimulants	Amphetamine Methamphetamine
E2AZNH	CNS Stimulants	Amphetamine Methamphetamine
EH2XRY	CNS Stimulants	Amphetamine Methamphetamine
ELZAMY	No drugs detected utilizing screening methods.	
EPK2Y2	CNS Stimulants	Amphetamine
F4WYG8	CNS Stimulants	
F6RFU4	CNS Stimulants	Amphetamine Methamphetamine
FTAZNG	CNS Stimulants	Amphetamine Methamphetamine
FY36GK	CNS Stimulants	Amphetamine Methamphetamine
FYFUHC	CNS Stimulants	Amphetamine Methamphetamine
GUZJ69	CNS Stimulants	Amphetamine Methamphetamine
GZRQNG	CNS Stimulants	Amphetamine Methamphetamine

TABLE 3 A: Screening Results - Item 3

WebCode	Category	Drug/Metabolite
H9F2D3	CNS Stimulants	Amphetamine Methamphetamine
H9F438	CNS Stimulants	
HFDTLW	CNS Stimulants	Amphetamine Methamphetamine
HQWACH	CNS Stimulants	Amphetamine Methamphetamine
J8Z4HH	CNS Stimulants	Amphetamine Methamphetamine
JD7XDD	CNS Stimulants	Amphetamine Methamphetamine
JG4ERT	CNS Stimulants	Amphetamine Methamphetamine
JHL9QG	CNS Stimulants	Amphetamine Methamphetamine
JJX6X8	CNS Stimulants	Amphetamine Methamphetamine
JMCHZF	CNS Stimulants	Amphetamine Methamphetamine
JWGMRW	CNS Stimulants	Amphetamine
K67XDB	CNS Stimulants	Amphetamine Methamphetamine
K9TC7R	CNS Stimulants	Amphetamine Methamphetamine
KAM3C7	CNS Stimulants	Amphetamine Methamphetamine
KWZQZW	CNS Stimulants	Methamphetamine
LFM2Z2	CNS Stimulants	
LGZE3C	CNS Stimulants	Amphetamine Methamphetamine
LHVW4D	CNS Stimulants	Amphetamine Methamphetamine
MEQLPP	CNS Stimulants	Amphetamine Methamphetamine

TABLE 3 A: Screening Results - Item 3

WebCode	Category	Drug/Metabolite
NB2GWG	CNS Stimulants	Amphetamine Methamphetamine
P9T7P8	CNS Stimulants	Amphetamine Methamphetamine
Q6ABNZ	CNS Stimulants	Amphetamine Methamphetamine
QAJQV4	CNS Stimulants	Amphetamine Methamphetamine
QDH3TN	CNS Stimulants	Amphetamine
QPWZV8	CNS Stimulants	Amphetamine Methamphetamine
QXBL6B	CNS Stimulants	Amphetamine Methamphetamine
QZT7P6	CNS Stimulants	Amphetamine Methamphetamine
R7YWUW	CNS Stimulants	Amphetamine Methamphetamine
RJ3HWL	CNS Stimulants	Amphetamine Methamphetamine
RVK2GH	CNS Stimulants	Amphetamine Methamphetamine
RWDVC2	CNS Stimulants	Amphetamine Methamphetamine
RZXMN4	CNS Stimulants	Amphetamine Methamphetamine
T2M9UZ	CNS Stimulants	Amphetamine Methamphetamine
T3JQV2	CNS Stimulants	Amphetamine Methamphetamine
T6LMGP	CNS Stimulants	Amphetamine Methamphetamine
TJ82KP	CNS Stimulants	Amphetamine Methamphetamine
TMPDK7	CNS Stimulants	Methamphetamine
TX4DTT	CNS Stimulants	Amphetamine Methamphetamine

TABLE 3 A: Screening Results - Item 3

WebCode	Category	Drug/Metabolite
UEECY7	CNS Stimulants	Methamphetamine
V83TTH	CNS Stimulants	Amphetamine Methamphetamine
VNRZNU	CNS Stimulants	Amphetamine Methamphetamine
VRMULV	CNS Stimulants	
VRQCKU	CNS Stimulants	Amphetamine Methamphetamine
VRQEAY	CNS Stimulants	Amphetamine Methamphetamine
VYAHJL	CNS Stimulants	
W8XT62	CNS Stimulants	Amphetamine Methamphetamine
WJCQBQ	CNS Stimulants	
WN8K9R	CNS Stimulants	
WPD38M	No drugs detected utilizing screening methods.	
WQAHJK	CNS Stimulants	
WRKGGE	CNS Stimulants	Amphetamine Methamphetamine
YAEWRP	CNS Stimulants	
YDYQTW	CNS Stimulants	Amphetamine Methamphetamine
YLTWNH	CNS Stimulants	
YMNCZF	CNS Stimulants	Amphetamine Methamphetamine
YMYEKT	CNS Stimulants	Amphetamine Methamphetamine
YRFJJN	CNS Stimulants	
ZCHUZW	CNS Stimulants	Amphetamine Methamphetamine
ZX2YKZ	CNS Stimulants	Amphetamine Methamphetamine

<b>Screening Response Summary for Item 3</b>		<b>Participants: 117 [ No Response: 11 ]</b>	
<u>Drug Category Totals</u>		<u>Drug/Metabolite Totals</u>	
<b>CNS Stimulants</b>	114	<b>Amphetamine</b>	88
<b>Analgesics</b>	1	<b>Methamphetamine</b>	88
<b>No drugs detected utilizing screening methods:</b>	3		

*Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.*

## Confirmatory Results - Item 3

TABLE 3B

**Item Scenario:**

A mother was asked to submit a urine sample for testing after a family caseworker contacted police about possible child endangerment. A visiting family member reportedly witnessed the mother using drugs inside of their home the night prior and accused her of misusing the child's medication.

**Item Contents and Preparation Concentration:** Amphetamine (300 ng/mL)  
Methamphetamine (1900 ng/mL)

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
24LENX	Amphetamine	✓			
	Methamphetamine	✓			
2GQUCE	Amphetamine	✓			
	Methamphetamine	✓			
2K76PH	Amphetamine	✓			
	Methamphetamine	✓			
2KAPDL	Amphetamine	✓			
	Methamphetamine	✓			
2N93ZB	Methamphetamine	✓			
2ZJFFQ	Amphetamine	✓			
	Methamphetamine	✓			
3WXBWL	Amphetamine	✓			
	Methamphetamine	✓			
3ZG6WT	Amphetamine	✓			
	Methamphetamine	✓			
4244QG	Amphetamine		239.17	33.48	ng/mL
	Methamphetamine		>1000		ng/mL
47EG9F	Amphetamine	✓			
	Methamphetamine	✓			
48AXKC	Amphetamine	✓			
	Methamphetamine				
4B9B7G	Amphetamine	✓			
	Methamphetamine	✓			
4BA9FC	Amphetamine	✓			
	Methamphetamine	✓			
4ET4GJ	Amphetamine	✓			
	Methamphetamine	✓			
4ET77N	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
4JPUMV	Amphetamine	✓			
	Methamphetamine	✓			
4V3UJN	Amphetamine	✓			
	Methamphetamine	✓			
6EAJAR	Amphetamine	✓			
	Methamphetamine	✓			
73DT4D	Amphetamine	✓			
	Methamphetamine	✓			
7YEG9D	Amphetamine	✓			
	Methamphetamine	✓			
89UNK8	Amphetamine	✓			
	Methamphetamine	✓			
933Z38	Amphetamine	✓			
	Methamphetamine	✓			
9FNF4L	Amphetamine	✓			
	Methamphetamine	✓			
9GJVFH	No drugs/metabolites detected utilizing confirmatory methods.				
9K4QGP	Amphetamine	✓			
	Methamphetamine	✓			
9MPRZH	Amphetamine	✓			
	Methamphetamine	✓			
A9NF4J	Amphetamine	✓			
	Methamphetamine	✓			
AC6K3E	Amphetamine		278.89	39.04	ng/mL
	Methamphetamine		>1000		ng/mL
AJ7WYC	Amphetamine	✓			
	Methamphetamine	✓			
AKEAGD	Amphetamine	✓			
	Methamphetamine	✓			
AL9V8J	Amphetamine	✓			
	Methamphetamine	✓			
ALARHE	Amphetamine	✓			
	Methamphetamine	✓			
ALDC7H	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
APTMJL	Amphetamine	✓			
	Methamphetamine	✓			
AXQC3B	Amphetamine		229.30	32.10	ng/mL
	Methamphetamine		>1000		ng/mL
AXQERF	Amphetamine	✓			
	Methamphetamine	✓			
BHUH6B	Amphetamine		286		ng/ml
	Methamphetamine		>1000		ng/ml
BJ4LFD	Amphetamine	✓			
	Methamphetamine	✓			
BYGX98	Amphetamine	✓			
	Methamphetamine	✓			
C4NN9R	Amphetamine		159.71	0.01	ng/mL
	Methamphetamine		3924.69	16.83	ng/mL
C7V78M	Amphetamine		303	82	ng/mL
	Methamphetamine		1788	480	ng/mL
CKQKA3	Amphetamine	✓			
	Methamphetamine	✓			
CP7VM7	Amphetamine	✓			
	Methamphetamine	✓			
CQ47HA	Amphetamine	✓			
	Methamphetamine	✓			
DMEJYK	Amphetamine	✓			
	Methamphetamine	✓			
E2AZNH	Amphetamine	✓			
	Methamphetamine	✓			
EH2XRY	Amphetamine	✓			
	Methamphetamine	✓			
ELZAMY	No drugs/metabolites detected utilizing confirmatory methods.				
EXQ7MC	Amphetamine		0.29		mg/L
	Methamphetamine		1.80		mg/L
F4WYG8	Amphetamine	✓			
	Methamphetamine	✓			
F6RFU4	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
FTAZNG	Amphetamine	✓			
	Methamphetamine	✓			
FY36GK	Amphetamine	✓			
	Methamphetamine	✓			
FYFUHC	Amphetamine	✓			
	Methamphetamine	✓			
GUZJ69	Amphetamine	✓			
	Methamphetamine	✓			
GZRQNG	Amphetamine	✓			
	Methamphetamine	✓			
H9F2D3	Amphetamine	✓			
	Methamphetamine	✓			
H9F438	Amphetamine	✓			
	Methamphetamine	✓			
HFDTLW	Amphetamine	✓			
	Methamphetamine	✓			
HQWACH	Amphetamine		243.91	-	ng/mL
	Methamphetamine		>1000*	-	ng/mL
J8Z4HH	Amphetamine	✓			
	Methamphetamine	✓			
JD7XDD	Amphetamine	✓			
	Methamphetamine	✓			
JHL9QG	Amphetamine	✓			
	Methamphetamine	✓			
JJX6X8	Amphetamine	✓			
	Methamphetamine	✓			
JMCHZF	Amphetamine	✓			
	Methamphetamine	✓			
K67XDB	Amphetamine	✓			
	Methamphetamine	✓			
KAM3C7	Amphetamine		302	76	ng/mL
	Methamphetamine		Present greater than 1000 ng/mL		ng/mL
LFM2Z2	Amphetamine	✓			
	Methamphetamine	✓			
LGZE3C	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
LHVW4D	Amphetamine	✓			
	Methamphetamine	✓			
MEQLPP	Amphetamine	✓			
	Methamphetamine	✓			
NB2WGW	Amphetamine		303		ng/ml
	Methamphetamine		1999		ng/ml
P9T7P8	Amphetamine	✓			
	Methamphetamine	✓			
PEJF2Q	Amphetamine	✓			
	Methamphetamine	✓			
Q6ABNZ	Amphetamine		270	70	ng/mL
	Methamphetamine		1820	460	ng/mL
QAJN7Y	Amphetamine	✓			
	Methamphetamine	✓			
QAJQV4	Amphetamine	✓			
	Methamphetamine	✓			
QPWZV8	Amphetamine	✓			
	Methamphetamine	✓			
QXBL6B	Amphetamine	✓			
	Methamphetamine	✓			
QZT7P6	Amphetamine	✓			
	Methamphetamine	✓			
R7YWUW	Amphetamine		257.13	35.99	ng/mL
	Methamphetamine		>1000		ng/mL
RVK2GH	Amphetamine		200.9	14	ng/mL
	Methamphetamine		1948.5	54	ng/mL
RWDVC2	Amphetamine	✓			
	Methamphetamine	✓			
RZXMN4	Amphetamine	✓			
	Methamphetamine	✓			
T2M9UZ	Amphetamine	✓			
	Methamphetamine	✓			
T3JQV2	Amphetamine	✓			
	Methamphetamine	✓			
T6LMGP	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
TJ82KP	Amphetamine	✓			
	Methamphetamine	✓			
TMPDK7	Methamphetamine		1743.61	477.75	ng/mL
TX4DTT	Amphetamine	✓			
	Methamphetamine	✓			
UEECY7	Methamphetamine		1874.50	513.613	ng/mL
V83TTH	Amphetamine		315		ng/ml
	Methamphetamine		1908		ng/ml
VEMQKQ	Amphetamine	✓			
	Methamphetamine	✓			
VNRZNU	Methamphetamine	✓			
VRQCKU	Amphetamine	✓			
	Methamphetamine	✓			
VRQEAY	Amphetamine	✓			
	Methamphetamine	✓			
VYAHJL	Amphetamine	✓			
	Methamphetamine	✓			
W8XT62	Amphetamine	✓			
	Methamphetamine	✓			
WJCQBQ	Amphetamine	✓			
	Methamphetamine	✓			
WN8K9R	Amphetamine	✓			
	Methamphetamine	✓			
WPD38M	Amphetamine	✓			
	Methamphetamine	✓			
WQAHJK	Amphetamine		270		ng/ml
	Methamphetamine		1700		ng/ml
WRKGGE	Amphetamine	✓			
	Methamphetamine	✓			
WY2X9N	Amphetamine	✓			
	Methamphetamine	✓			
YAEWRP	Amphetamine	✓			
	Methamphetamine	✓			
YDYQTW	Amphetamine	✓			
	Methamphetamine	✓			

TABLE 3B: Confirmatory Results - Item 3

<b>What drugs/metabolites were detected in Item 3?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
YLTWNH	Amphetamine	✓			
	Methamphetamine	✓			
YMYEKT	Amphetamine	✓			
	Methamphetamine	✓			
YRFJJN	Amphetamine	✓			
	Methamphetamine	✓			
ZCHUZW	Amphetamine				
ZX2YKZ	Methamphetamine	✓			

<b>Confirmatory Response Summary for Item 3</b>		<b>Participants: 111 [ No Response: 17 ]</b>
Amphetamine: 104		
Methamphetamine: 108		
No Drugs/Metabolites Detected Utilizing Confirmatory Methods: 2		
<i>Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.</i>		

# Raw Data - Item 3

TABLE 3C

**Item 3 Raw Data - Amphetamine**  
**Preparation concentration: 300 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)					
4244QG	239.17					239.20
AC6K3E	278.89					278.90
AXQC3B	229.30					229.30
C4NN9R	159.70	159.70				159.70
C7V78M	303.19					303.20
HQWACH	240.75	244.10	243.50	243.77	247.49	243.90
KAM3C7	304.12	303.00				303.60
NB2WGW	303.18					303.20
Q6ABNZ	58.330	54.690				56.510 X
R7YWUW	257.13					257.10
RVK2GH	200.90	198.40	205.40			201.60

Statistical Analysis for Item 3 - Amphetamine	
Grand Mean <b>251.96</b>	Number of Participants Included <b>10</b>
Standard Deviation <b>47.67</b>	Number of Participants Excluded <b>1</b>
	<i>by Critical H value of <b>2.290</b></i>

**TABLE 3C: Raw Data - Item 3**  
**Item 3 Raw Data - Methamphetamine**  
**Preparation concentration: 1900 ng/mL**

<b>WebCode</b>	<b>List of Raw Data determinations (ng/mL)</b>					
4244QG	1,548.7					1,548.7
AC6K3E	1,320.7					1,320.7
AXQC3B	2,086.9					2,086.9
C4NN9R	3,936.6	3,912.8				3,924.7 X
C7V78M	1,788.4					1,788.4
HQWACH	1,574.7	1,577.7	1,591.1	1,575.8	1,606.7	1,585.2
KAM3C7	1,932.1	1,909.1				1,920.6
NB2WGW	1,999.5					1,999.5
Q6ABNZ	364.89	368.70				366.80 X
R7YWUW	1,973.4					1,973.4
RVK2GH	1,919.9	1,801.6	2,123.9			1,948.5
TMPDK7	1,734.2	1,740.3	1,756.3			1,743.6
UEECY7	1,897.4	1,889.0	1,837.2			1,874.5

<b>Statistical Analysis for Item 3 - Methamphetamine</b>	
Grand Mean <b>1,799.07</b>	Number of Participants Included <b>11</b>
Standard Deviation <b>231.66</b>	Number of Participants Excluded <b>2</b>
	<i>by Critical H value of <b>2.339</b></i>

# Reporting Procedures - Item 3

TABLE 3D - Item 3

WebCode	Quantitative Reporting Procedures
4244QG	A single determination.
AC6K3E	A single determination.
AXQC3B	A single determination.
BHUH6B	A single determination.
C4NN9R	The mean of duplicate/several determinations.
C7V78M	A single determination.
EXQ7MC	A single determination.
HQWACH	The mean of duplicate/several determinations.
KAM3C7	The lowest of the duplicates
NB2WGW	A single determination.
Q6ABNZ	The lowest concentration following duplicate analysis
QAJN7Y	A single determination.
R7YWUW	A single determination.
RVK2GH	The mean of duplicate/several determinations.
TMPDK7	The mean of duplicate/several determinations.
UEECY7	The mean of duplicate/several determinations.
WQAHJK	external confirmation
ZCHUZW	Qualitative Only

Response Summary for Item 3	Participants: 18
A single determination:	9 (50.0%)
The mean of duplicate/several determinations:	5 (27.8%)
Other:	4 (22.2%)

## **Methods of Analysis - Item 3**

TABLE 3E - Item 3

<b>WebCode</b>	<b>Method</b>	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>
24LENX	LC-HRMS/MS GC/MS	✓	✓	
2GQUCE	Immunoassay GC/MS	✓ ✓	✓	
2K76PH	Immunoassay GC/MS	✓ ✓	✓	
2KAPDL	Immunoassay GC/MS	✓ ✓	✓	
2N93ZB	GC/MS LC/MS/MS	✓	✓	
2ZJFFQ	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
3WXBWL	Immunoassay GC/MS	✓ ✓	✓	
3ZG6WT	Immunoassay GC/MS LC-HR/MS/MS	✓ ✓ ✓	✓ ✓	
4244QG	LC-QTOF-MS LC/MS/MS	✓	✓	✓
47EG9F	GC/MS LC-QTOF LC-QTOF-MS	✓ ✓	✓ ✓	
4B9B7G	Immunoassay GC/MS	✓ ✓	✓	
4BA9FC	GC/MS		✓	
4ET4GJ	Immunoassay GC/MS	✓ ✓	✓	
4ET77N	Immunoassay GC/MS	✓ ✓	✓	
4JPUMV	LC-HRMS/MS GC/MS Immunoassay	✓ ✓ ✓	✓ ✓	
4V3UJN	Immunoassay LC/MS/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
6EAJAR	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/HRMS/MS (Orbitrap)	✓	✓	
72ZHQ7	Immunoassay	✓		
73DT4D	Immunoassay	✓		
	GC/MS	✓	✓	
7YEG9D	Immunoassay	✓		
	GC/MS	✓	✓	
89UNK8	Immunoassay	✓		
	LC-QTOF	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
933Z38	LC-QTOF-MS	✓	✓	
9FNF4L	Immunoassay	✓		
	LC-HRMS/MS	✓		
	GC/MS		✓	
9GJVFH	Immunoassay	✓		
	GC/MS	✓	✓	
9K4QGP	High resolution accurate mass	✓		
	GC/MS		✓	
9MPRZH	Immunoassay	✓		
	GC/MS	✓	✓	
A8DDK7	Immunoassay	✓		
A9NF4J	Immunoassay	✓		
	GC/MS	✓	✓	
AC6K3E	LC-QTOF-MS	✓		
	LC/MS/MS		✓	✓
AJ7WYC	GC/MS	✓		
	Immunoassay	✓		
	LC/MS/MS		✓	
AKEAGD	Immunoassay	✓		
	GC/MS		✓	
AL9V8J	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
ALARHE	Immunoassay GC/MS	✓ ✓	✓	
ALDC7H	Immunoassay GC/MS	✓	✓	
APTMJL	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
AU8H24	Immunoassay	✓		
AXQC3B	LC-QTOF-MS LC/MS/MS	✓	✓	✓
AXQERF	LC/MS/MS	✓	✓	
BHUH6B	LC/MS/MS LC-QTOF GC/MS	✓ ✓	✓ ✓	✓
BJ4LFD	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
BYGX98	Immunoassay GC/MS	✓ ✓	✓	
C4NN9R	LC/MS/MS GC/MS Immunoassay	✓ ✓ ✓	✓ ✓	✓
C7V78M	Immunoassay GC/MS	✓	✓	✓
CKQKA3	Immunoassay LC/MS/MS	✓	✓	
CP7VM7	Immunoassay GC/MS	✓ ✓	✓	
CQ47HA	Immunoassay GC/MS	✓	✓	
DMEJYK	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
E2AZNH	LC-HRMS/MS GC/MS	✓	✓	
EH2XRY	LC/MS/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
ELZAMY	LC/MS/MS	✓	✓	✓
EPK2Y2	Immunoassay	✓		
EXQ7MC	LC/MS/MS	✓	✓	✓
F4WYG8	Immunoassay	✓		
	GC/MS	✓	✓	
F6RFU4	Immunoassay	✓		
	GC/MS	✓	✓	
FTAZNG	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMSMS	✓	✓	
FY36GK	LC-QTOF	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
FYFUHC	Immunoassay	✓		
	LC/MS/MS	✓	✓	
GUZJ69	Immunoassay	✓		
	GC/MS		✓	
GZRQNG	GC/MS		✓	
	LC-HRMS/MS	✓		
H9F2D3	LC/MS/MS	✓	✓	
	Rapid Chromatographic Immunoassay	✓		
H9F438	Immunoassay	✓		
	LC-QTOF		✓	
HFDTLW	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
HQWACH	LC/MS/MS	✓	✓	✓
J8Z4HH	LC/HRAM/MS	✓	✓	
JD7XDD	LC-HRMS/MS	✓	✓	
	GC/MS	✓	✓	
JG4ERT	Immunoassay	✓		

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
JHL9QG	LC-QTOF	✓	✓	
	GC/MS	✓		
	LC/MS/MS	✓		
	Immunoassay	✓		
	GC-QQQ	✓		
JJX6X8	LC/MS/MS	✓	✓	
JMCHZF	GC/MS	✓	✓	
	LC-HRMSMS	✓	✓	
	Immunoassay	✓		
JWGMRW	Immunoassay	✓		
K67XDB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
K9TC7R	Immunoassay	✓		
KAM3C7	Immunoassay	✓		
	LC/MS/MS		✓	✓
KWZQZW	Immunoassay	✓		
	GC/MS		✓	
LFM2Z2	Immunoassay	✓		
	GC/MS		✓	
LGZE3C	LC-HRMS/MS	✓		
	GC/MS		✓	
LHVW4D	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
MEQLPP	LC/MS/MS	✓		
	GC/MS		✓	
NB2WGW	Immunoassay	✓		
	LC/MS/MS		✓	✓
P9T7P8	LC-HRMSMS	✓		
	GC/MS		✓	
PEJF2Q	GC/MS		✓	
Q6ABNZ	Immunoassay	✓		
	LC/MS/MS		✓	✓
QAJN7Y	LC/MS		✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
QAJQV4	Immunoassay	✓		
	LC-HR-MSMS	✓		
	GC/MS		✓	
QDH3TN	Immunoassay	✓		
QPWZV8	GC/MS		✓	
	LC-HR/MS/MS	✓		
QXBL6B	LC/MS/MS	✓		
	GC/MS		✓	
QZT7P6	Immunoassay	✓		
	GC/MS	✓	✓	
	LC- HRMS/MS	✓	✓	
R7YWUW	LC-QTOF-MS	✓		
	LC/MS/MS		✓	✓
RJ3HWL	Immunoassay	✓		
RVK2GH	Immunoassay	✓	✓	
	LC/MS/MS	✓	✓	✓
RWDVC2	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
RZXMN4	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
T2M9UZ	Immunoassay	✓		
	LC/MS/MS		✓	
T3JQV2	LC/MS/MS	✓		
	GC/MS		✓	
T6LMGP	Immunoassay	✓		
	GC/MS	✓	✓	
TJ82KP	Immunoassay	✓		
	GC/MS	✓	✓	
TMPDK7	LC/MS		✓	
TX4DTT	LC-QTOF-MS		✓	
UEECY7	LC/MS		✓	
VEMQKQ	GC/MS		✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
VNRZNU	Immunoassay GC/MS	✓	✓	
VRMULV	Immunoassay	✓		
VRQCKU	Immunoassay GC/MS	✓	✓	
VRQEAY	Immunoassay GC/MS LC-HRMS	✓ ✓ ✓	✓ ✓ ✓	
VYAHJL	Immunoassay GC/MS	✓ ✓	✓	
W8XT62	Immunoassay GC/MS LC-HR MS/MS	✓ ✓ ✓	✓ ✓ ✓	
WJCQBQ	Immunoassay GC/MS	✓ ✓	✓	
WN8K9R	Immunoassay GC/MS	✓ ✓	✓	
WPD38M	GC/MS		✓	
WQAHJK	Immunoassay GC-FID LC/MS/MS	✓ ✓	✓	✓
WRKGGE	Immunoassay GC/MS	✓	✓	
WY2X9N	GC/MS		✓	
YAEWRP	Immunoassay GC/MS	✓ ✓	✓	
YDYQTW	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
YLTWNH	Immunoassay GC/MS	✓ ✓	✓	
YMNCZF	Immunoassay	✓		
YMYEKT	Immunoassay LC/MS/MS	✓ ✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
YRFJJN	Immunoassay	✓		
	GC/MS	✓	✓	
ZCHUZW	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
ZX2YKZ	Immunoassay	✓		
	LC/MS/MS		✓	

Response Summary for Item 3 - Methods of Analysis				Participants: 121
	Screening	Confirmatory	Quantitation	
<b>Immunoassay:</b>	84	1	0	
<b>GC/MS:</b>	46	78	1	
<b>LC/MS:</b>	0	3	0	
<b>LC/MS/MS:</b>	17	30	14	
<b>LC-QTOF:</b>	5	4	0	
<b>LC-QTOF-MS:</b>	7	3	0	
<b>Other:</b>	28	16	0	

## **Additional Comments for Item 3**

TABLE 3F

WebCode	Item Comments
24LENX	d-methamphetamine and d-amphetamine confirmed IS: mephobarbital, mepivacaine
2N93ZB	Standard Interne Methamphetamine-d5
2ZJFFQ	ELISA: positive for Amphetamines, Methamphetamine; cocaine assay omitted due to kit expiration; no cocaine/metabolites detected by other analyses. Internal standards used for LC-QTOF analysis: fentanyl-D5, imipramine-D3, MDMA-D5, methaqualone-D7, triazolam-D4. Caffeine detected but not confirmed.
3ZG6WT	Mepivacaine used as internal standard.
4244QG	Methamphetamine ULOQ set at 1000ng/mL
47EG9F	ETAZOLAM WAS USED AS AN INTERNAL STANDARD
4B9B7G	Internal standard for GC/MS screening is Promazine. Internal standard for amphetamine GC/MS confirmation is n-Propylamphetamine.
4ET77N	Mepivacaine, n-Propylamphetamine and Hexobarbital were used as internal standards.
4JPUMV	Internal Standards: LC-HRMS/MS: mepivacaine/ mephobarbital GC/MS: mepivacaine/ nalorphine
6EAJAR	Isomeric determination of amphetamine and methamphetamine revealed d isomers of both.
73DT4D	Internal standard used for general drug screen was promazine. Internal standard used for SMA analysis was N-Propylamphetamine.
7YEG9D	Internal standards used: Promazine, N-propylamphetamine.
9FNF4L	Internal Standard: mepivacaine
9GJVFH	The laboratory's Urine Amines Confirmation method is currently down and was not able to be performed to confirm the response seen on the immunoassay.
9K4QGP	internal standard: mepivacaine, mephobarbital
9MPRZH	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards. Fentanyl screened positive via ELISA, but was not detected via GC/MS.
AC6K3E	Methamphetamine ULOQ set at 1000ng/mL
AKEAGD	SKF 525-A and NPA are the internal standards used for basic drug screen by GC/MS.
AL9V8J	Internal standard for LCQTOFMS is Mepivacaine, internal standard for GCMS is Amphetamine-D11 and Methamphetamine-D11.
APTMJL	internal standard used for gcms and lchrmsms was mepivacaine; amphetamines were derivatized with TPC
AXQC3B	Methamphetamine ULOQ set at 1000ng/mL
BYGX98	Promazine was used as the internal standard for the Drug Screen analysis and N-propylamphetamine was used as the internal standard for the SMA confirmation analysis.
C4NN9R	No internal standard used.
C7V78M	Immunoassay screen performed by EMIT for six drug classes: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, and PCP. Amphetamines drug class screened positive by EMIT. All other drug classes screened negative. Amphetamine and Methamphetamine confirmed by GC/MS. Amphetamine result reported from undilute sample. Methamphetamine result reported from 1:5 dilution.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
CKQKA3	The cut-off value of amphetamine and methamphetamine are 50 ng/mL for LC/MS/MS
CP7VM7	Promazine (ISTD) - Drug Screen for Urine N-Propylamphetamine (ISTD) - SMA Confirmation for Urine
CQ47HA	The methods used were immunoassay and GC/MS
DMEJYK	Internal standard used was mepivacaine.
E2AZNH	Internal standards used for LC-HRMS/MS screening: Mepivacaine, Mephobarbital Internal standards used for GC/MS confirmation testing: Mepivacaine
ELZAMY	We test for a limited drug panel including fentanyl, hydromorphone, MDEA, MDPV, sufentanil, xylazine
EPK2Y2	Immunoassay screening revealed amphetamines (class of drugs) which can include drugs such as amphetamine, methamphetamine, and MDMA. Amphetamines (class) cutoff: 500 ng/mL Creatinine Normal
FTAZNG	Internal Standard: Mepivacaine Amphetamines class of drugs indicative in immunoassay
GZRQNG	mepivacaine & mephobarbital internal standards
H9F2D3	An iCassette (THC) test device was used to screen for THC, referred to in 3-5 as rapid chromatographic immunoassay.
HFDTLW	- The internal standard used was D9-Methamphetamine - All of the urine samples should be investigated using immunoassay as presumptive screening tests.
HQWACH	Method: precipitation with cold acetonitrile; Internal Standard: MDMA D5; Detection limit (DL): 10 ng/mL; Column: Kinetex ® 2.6 µm Biphenyl 100 Å; Size: LC Column 100 X 2.1 mm; *Result above the upper limit of quantification of the method (1000 ng/mL).
JD7XDD	Internal Standards: Mepivacaine/Mephobarbital (LC-HRMS/MS) and Mepivacaine (GC/MS)
JHL9QG	Negative for cannabinoids by immunoassay. Negative for gamma hydroxybutyric acid.
JJX6X8	Amphetamine: ISTD Amphetamine-d11; LOD 5ng/mL Methamphetamine: ISTD Methamphetamine-d11; LOD 5ng/mL
JMCHZF	Istd-Mepivacaine for both
JWGMRW	Amphetamine cutoff: 500 ng/mL Creatinine is Normal.
K67XDB	Internal Standard - Mepivacaine
KAM3C7	These results are from a pre-distribution analysis of 26-5671 [Participant Code]. Our upper limit of quantitation for methamphetamine is 1000 ng/mL. When samples have a concentration above this upper limit, they are reported as "Present greater than 1000 ng/mL". We do not typically dilute and re-run cases that have a concentration above our upper limit of quantitation.
LFM2Z2	Urine Screen results: EMIT Amphetamines - Positive CNS Stimulants is not a screening category on the laboratory report Scope for confirmation testing performed on 04/02/2026 included: amphetamine, methamphetamine, 3,4-methylenedioxyamphetamine (MDA), 3,4-methylenedioxymethamphetamine (MDMA), and phentermine. Internal Standards: Amphetamine-D5 (for amphetamine), Methamphetamine-D5 (for methamphetamine). Limit of Detection (for all analytes) : 150 ng/mL
LGHMR8	Item 3 not analyzed
LGZE3C	Internal Standard: mepivacaine (LC-HRMS/MS), mepivacaine/nalorphine (GC/MS). d-amphetamine and d-methamphetamine reported. l-amphetamine and l-methamphetamine <20%, not reported.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
LHVW4D	3-1) Amphetamine class was indicative via immunoassay. No specific analyte available. Amphetamine extraction (URTBA031226) was performed to confirm the amphetamines positive EIA result. This is a qualitative testing. Internal standard: mepivacaine for GC/MS and LC-HRMS/MS Caffeine detected - not in the list of possible sample analyte.
MEQLPP	The LCMSMS screening method uses d3-cocaine for an internal standard. The LOD for amphetamine and methamphetamine in this method is 50ng/mL and 20ng/mL, respectively. The GCMS confirmation method uses n-ethylamine for an internal standard.
P9T7P8	Internal Standards used: Mepivacaine and Mephobarbital.
PEJF2Q	Internal Standard: SKF-525A
Q6ABNZ	Item 3 was diluted with a 1:5 dilution factor. The raw data was truncated and multiplied by 5. The reported methamphetamine concentration would be $364 * 5 = 1820$ and the reported amphetamine concentration would be $54 * 5 = 270$ . Item 3 was analyzed using Immunoassay Drug Screen and Basic Drug Confirmation. The scope for Immunoassay Drug Screen is: amphetamine, barbiturates, benzodiazepines, buprenorphine, cocaine/benzoylcegonine, cannabinoids, carisoprodol, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine (PCP), tramadol, zolpidem. The scope for Basic Drug Confirmation is - Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD; Qualitatively: ephedrine/pseudoephedrine, psilocin
QAJN7Y	No screening tests performed. Waiting on test kits.
QAJQV4	Internal standard: Mepivacaine
QPWZV8	D-amphetamine and d-methamphetamine reported
QZT7P6	d isomer of methamphetamine and amphetamine detected. Internal Standard - Mepivacaine.
R7YWUW	Methamphetamine ULOQ set at 1000ng/mL
RZXMN4	GCMS & LC-HRMS/MS Internal Standard: mepivacaine
T2M9UZ	With a child endangerment case our policy would be to also do a more comprehensive liquid chromatography/tandem mass spectrometry drug screening panel on this case. I am not authorized to perform this testing, so it was not performed on the proficiency item 3.
T6LMGP	Promazine used as the Internal Standard for Drug Screen. N-Propylamphetamine used as the Internal Standard for SMA class.
TJ82KP	Internal Standards: Promazine/ N-propylamphetamine
VEMQKQ	Tetracosan was used as an internal standard.
VRQCKU	Caffeine detected - not reported.
VRQEAY	Immunoassay indicative for amphetamines d-isomer confirmed for methamphetamine and amphetamine
W8XT62	Internal Standard-Mepivacaine
WQAHHK	Confirmatory analysis performed externally therefore no information available.
WY2X9N	* Internal standard: flurazepam * Sample preparation: L/L extraction. * The final extract is derivatized with BSTFA, and analyzed by GC/MS.
YDYQTW	LC/MS/MS method used was High Resolution Mass Spectrometry/Mass Spectrometry Mepivacaine was used as internal standard for both GC/MS and LC/MS/MS
YLTWNH	Promazine was used as an internal standard for GC/MS screen. N-propylamphetamine was used as an internal standard for SMA confirmation via GC/MS.

TABLE 3F: Additional Comments for Item 3

<b>WebCode</b>	<b>Item Comments</b>
ZBLENZ	Item was not tested.
ZCHUZW	Internal Standards: Mepivacaine/Mephobarbital. Mepivacaine Immunoassay amp neg cal check and control failed on 2/26/26-needed to be repeated on 3/3/26

## Screening Results - Item 4

TABLE 4A

**Item Scenario:**

A 23 year-old-female reported a possible sexual assault after waking up especially hungover with difficulty recalling the events from a party she attended the night before. She knew she had been drinking and smoking at the party. A urine sample was collected 24-36 hours after the start of the event.

**Item Contents and Preparation Concentration:** Carboxy-tetrahydrocannabinol (90 ng/mL)  
Fluoxetine (650 ng/mL)  
Norfluoxetine (310 ng/mL)

WebCode	Category	Drug/Metabolite
24LENX	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
2GQUCE	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
2K76PH	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
2KAPDL	Antidepressants	Fluoxetine
2N93ZB	Antidepressants	Fluoxetine
		Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
2ZJFFQ	Cannabinoids	
3WXBWL	Antidepressants	Fluoxetine
3ZG6WT	Antidepressants	Fluoxetine
4244QG	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
47EG9F	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
48AXKC	No drugs detected utilizing screening methods.	
4B9B7G	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
4BA9FC	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
4ET4GJ	Antidepressants	Fluoxetine
4ET77N	Antidepressants	Fluoxetine
		Norfluoxetine
4JPUMV	Antidepressants	Fluoxetine
4V3UJN	Antidepressants	Fluoxetine
		Norfluoxetine
6EAJAR	No drugs detected utilizing screening methods.	
72ZHQ7	No drugs detected utilizing screening methods.	
73DT4D	Antidepressants	Fluoxetine
7YEG9D	Antidepressants	Fluoxetine

TABLE 4 A: Screening Results - Item 4

WebCode	Category	Drug/Metabolite
89UNK8	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
933Z38	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
9FNF4L	Antidepressants	Fluoxetine
9GJVFH	No drugs detected utilizing screening methods.	
9K4QGP	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
9MPRZH	Antidepressants	Fluoxetine Norfluoxetine
	No drugs detected utilizing screening methods.	
A9NF4J	No drugs detected utilizing screening methods.	
AC6K3E	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
AJ7WYC	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
AKEAGD	Cannabinoids	
	CNS Stimulants	Amphetamine
AL9V8J	Antidepressants	Fluoxetine
	Cannabinoids	
ALARHE	Antidepressants	Fluoxetine
ALDC7H	No drugs detected utilizing screening methods.	
APTMJL	Antidepressants	Fluoxetine
AU8H24	No drugs detected utilizing screening methods.	
AXQC3B	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
AXQERF	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
BHUH6B	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
BJ4LFD	Cannabinoids	
BYGX98	Antidepressants	Fluoxetine
C4NN9R	Antidepressants	Fluoxetine
C7V78M	Cannabinoids	

TABLE 4 A: Screening Results - Item 4

WebCode	Category	Drug/Metabolite
CKQKA3	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
CP7VM7	Antidepressants	Fluoxetine
CQ47HA	No drugs detected utilizing screening methods.	
DMEJYK	Antidepressants	Fluoxetine
E2AZNH	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
EH2XRY	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
ELZAMY	No drugs detected utilizing screening methods.	
EPK2Y2	No drugs detected utilizing screening methods.	
F4WYG8	Antidepressants	Fluoxetine
F6RFU4	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
FTAZNG	Antidepressants	Fluoxetine
FY36GK	Antidepressants	Fluoxetine
		Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
FYFUHC	Antidepressants	Fluoxetine
		Norfluoxetine
GUZJ69	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
GZRQNG	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
	CNS Stimulants	Amphetamine Methamphetamine
H9F2D3	Antidepressants	Fluoxetine
H9F438	Cannabinoids	
HFDTLW	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
HQWACH	Antidepressants	Fluoxetine
		Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
J8Z4HH	Antidepressants	Fluoxetine
		Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
JD7XDD	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)

TABLE 4 A: Screening Results - Item 4

WebCode	Category	Drug/Metabolite
JG4ERT	No drugs detected utilizing screening methods.	
JHL9QG	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
JJX6X8	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
JMCHZF	Antidepressants	Fluoxetine
JWGMRW	No drugs detected utilizing screening methods.	
K67XDB	Antidepressants	Fluoxetine
K9TC7R	No drugs detected utilizing screening methods.	
KAM3C7	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
	CNS Stimulants	Amphetamine
KWZQZW	Miscellaneous	Gamma-hydroxy butyrate (GHB)
LFM2Z2	No drugs detected utilizing screening methods.	
LGHMR8	Antidepressants	Fluoxetine
	Cannabinoids	
LGZE3C	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
	CNS Stimulants	Amphetamine Methamphetamine
LHVW4D	Antidepressants	Fluoxetine
MEQLPP	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
NB2WGW	Antidepressants	Fluoxetine Norfluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
P9T7P8	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
Q6ABNZ	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
	CNS Stimulants	Amphetamine
QAJQV4	Antidepressants	Fluoxetine
QDH3TN	No drugs detected utilizing screening methods.	
QPWZV8	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
QXBL6B	Antidepressants	Fluoxetine
	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
QZT7P6	Antidepressants	Fluoxetine

TABLE 4 A: Screening Results - Item 4

WebCode	Category	Drug/Metabolite
R7YWUW	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
RJ3HWL	No drugs detected utilizing screening methods.	
RVK2GH	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
RWDVC2	Antidepressants Cannabinoids	Fluoxetine
RZXMN4	Antidepressants	Fluoxetine
T2M9UZ	No drugs detected utilizing screening methods.	
T3JQV2	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
T6LMGP	Antidepressants	Fluoxetine
TJ82KP	Antidepressants	Fluoxetine
TMPDK7	No drugs detected utilizing screening methods.	
TX4DTT	Antidepressants  Cannabinoids	Fluoxetine  Norfluoxetine  Carboxy-tetrahydrocannabinol (THC-COOH)
UEECY7	No drugs detected utilizing screening methods.	
V83TTH	No drugs detected utilizing screening methods.	
VNRZNU	No drugs detected utilizing screening methods.	
VRMULV	Cannabinoids	
VRQCKU	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
VRQEAY	Antidepressants	Fluoxetine
VYAHJL	Antidepressants	Fluoxetine
W8XT62	Antidepressants	Fluoxetine
WJCQBQ	Antidepressants	Fluoxetine
WN8K9R	Antidepressants	Fluoxetine
WPD38M	No drugs detected utilizing screening methods.	
WQAHJK	Cannabinoids	
WRKGGE	Cannabinoids	Carboxy-tetrahydrocannabinol (THC-COOH)
YAEWRP	Antidepressants	Fluoxetine
YDYQTW	Antidepressants	Fluoxetine
YLTWNH	Antidepressants	Fluoxetine
YMNCZF	No drugs detected utilizing screening methods.	
YMYEKT	Antidepressants	Fluoxetine
YRFJJN	Antidepressants	Fluoxetine
ZCHUZW	Antidepressants	Fluoxetine
ZX2YKZ	Cannabinoids	

<b>Screening Response Summary for Item 4</b>		<b>Participants: 119 [ No Response: 9 ]</b>	
<u>Drug Category Totals</u>		<u>Drug/Metabolite Totals</u>	
<b>Antidepressants</b>	71	<b>Fluoxetine</b>	71
<b>Cannabinoids</b>	54	<b>Carboxy-tetrahydrocannabinol (THC-COOH)</b>	43
<b>CNS Stimulants</b>	7	<b>Norfluoxetine</b>	15
		<b>Amphetamine</b>	5
<b>No drugs detected utilizing screening methods:</b>	24		

*Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.*

## Confirmatory Results - Item 4

TABLE 4B

**Item Scenario:**

A 23 year-old-female reported a possible sexual assault after waking up especially hungover with difficulty recalling the events from a party she attended the night before. She knew she had been drinking and smoking at the party. A urine sample was collected 24-36 hours after the start of the event.

**Item Contents and Preparation Concentration:** Carboxy-tetrahydrocannabinol (90 ng/mL)  
Fluoxetine (650 ng/mL)  
Norfluoxetine (310 ng/mL)

### What drugs/metabolites were detected in Item 4?

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
24LENX	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
2GQUCE	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Gamma-hydroxy butyrate (GHB)	✓			
2K76PH	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
2KAPDL	Fluoxetine	✓			
2N93ZB	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
2ZJFFQ	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
3WXBWL	Fluoxetine	✓			
3ZG6WT	Fluoxetine	✓			
4244QG	Carboxy-tetrahydrocannabinol (THC-COOH)		54.22	4.87	ng/mL
47EG9F	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
4B9B7G	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
4BA9FC	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
4ET4GJ	Fluoxetine	✓			
4ET77N	Fluoxetine	✓			
	Norfluoxetine	✓			
4JPUMV	Fluoxetine	✓			
4V3UJN	Fluoxetine	✓			
	Norfluoxetine	✓			
6EAJAR	Fluoxetine	✓			
73DT4D	Fluoxetine	✓			

TABLE 4B: Confirmatory Results - Item 4

<b>What drugs/metabolites were detected in Item 4?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
7YEG9D	Fluoxetine	✓			
89UNK8	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
933Z38	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
9FNF4L	Fluoxetine	✓			
9GJVFH	Fluoxetine	✓			
9K4QGP	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
9MPRZH	Fluoxetine	✓			
	Norfluoxetine	✓			
AC6K3E	Carboxy-tetrahydrocannabinol (THC-COOH)		55.23	4.97	ng/mL
AJ7WYC	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
AKEAGD	Fluoxetine	✓			
	Norfluoxetine	✓			
AL9V8J	Fluoxetine	✓			
ALARHE	Fluoxetine	✓			
ALDC7H	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
APTMJL	Fluoxetine	✓			
AXQC3B	Carboxy-tetrahydrocannabinol (THC-COOH)		48.12	4.33	ng/mL
AXQERF	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
BHUH6B	Carboxy-tetrahydrocannabinol (THC-COOH)		74,1		
	Fluoxetine	✓			
BJ4LFD	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
BYGX98	Fluoxetine	✓			
C4NN9R	Fluoxetine		1526.46	21.92	ng/mL
C7V78M	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			

TABLE 4B: Confirmatory Results - Item 4

<b>What drugs/metabolites were detected in Item 4?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
CKQKA3	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
CP7VM7	Fluoxetine	✓			
CQ47HA	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
DMEJYK	Fluoxetine	✓			
E2AZNH	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
EH2XRY	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
ELZAMY	No drugs/metabolites detected utilizing confirmatory methods.				
EXQ7MC	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine		0.240		mg/L
F4WYG8	Fluoxetine	✓			
F6RFU4	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
FTAZNG	Fluoxetine	✓			
FY36GK	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
FYFUHC	Fluoxetine	✓			
	Norfluoxetine	✓			
GUZJ69	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
GZRQNG	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
H9F2D3	Fluoxetine	✓			
H9F438	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine				
HFDTLW	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
HQWACH	Carboxy-tetrahydrocannabinol (THC-COOH)		77.22	-	ng/mL
	Fluoxetine	✓			
	Norfluoxetine	✓			

TABLE 4B: Confirmatory Results - Item 4

<b>What drugs/metabolites were detected in Item 4?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
J8Z4HH	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
	Norfluoxetine	✓			
JD7XDD	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
JHL9QG	Carboxy-tetrahydrocannabinol (THC-COOH)		58	20%	ug/L
	Fluoxetine	✓			
	Norfluoxetine	✓			
JJX6X8	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
JMCHZF	Fluoxetine	✓			
K67XDB	Fluoxetine	✓			
KAM3C7	Carboxy-tetrahydrocannabinol (THC-COOH)		56	12	ng/mL
LGHMR8	Fluoxetine	✓			
LGZE3C	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
LHVW4D	Fluoxetine	✓			
MEQLPP	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
NB2WGW	Carboxy-tetrahydrocannabinol (THC-COOH)		72.8		ng/ml
	Fluoxetine	✓			
	Norfluoxetine	✓			
P9T7P8	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
PEJF2Q	Fluoxetine	✓			
Q6ABNZ	Carboxy-tetrahydrocannabinol (THC-COOH)		88	18	ng/mL
QAJN7Y	No drugs/metabolites detected utilizing confirmatory methods.				
QAJQV4	Fluoxetine	✓			
QPWZV8	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
QXBL6B	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			
QZT7P6	Fluoxetine	✓			
R7YWUW	Carboxy-tetrahydrocannabinol (THC-COOH)		52.39	4.71	ng/mL

TABLE 4B: Confirmatory Results - Item 4

<b>What drugs/metabolites were detected in Item 4?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
RVK2GH	Carboxy-tetrahydrocannabinol (THC-COOH)		32.4	4	ng/mL
RWDVC2	Fluoxetine	✓			
RZXMN4	Fluoxetine	✓			
T3JQV2	Fluoxetine Norfluoxetine	✓ ✓			
T6LMGP	Fluoxetine				
TJ82KP	Fluoxetine	✓			
TX4DTT	Carboxy-tetrahydrocannabinol (THC-COOH) Fluoxetine Norfluoxetine	✓ ✓ ✓			
VEMQKQ	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
VRQCKU	Carboxy-tetrahydrocannabinol (THC-COOH) Fluoxetine	 ✓			
VRQEAY	Fluoxetine	✓			
VYAHJL	Fluoxetine	✓			
W8XT62	Fluoxetine	✓			
WJCQBQ	Fluoxetine	✓			
WN8K9R	Fluoxetine	✓			
WPD38M	Carboxy-tetrahydrocannabinol (THC-COOH) Fluoxetine Norfluoxetine	✓ ✓ ✓			
WQAHJK	Carboxy-tetrahydrocannabinol (THC-COOH) Fluoxetine Norfluoxetine	✓ ✓ ✓			
WRKGGE	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
WY2X9N	Carboxy-tetrahydrocannabinol (THC-COOH) Fluoxetine Norfluoxetine	✓ ✓ ✓			
YAEWRP	Fluoxetine	✓			
YDYQTW	Fluoxetine	✓			
YLTWNH	Fluoxetine	✓			
YMYEKT	Fluoxetine	✓			
YRFJJN	Fluoxetine	✓			

TABLE 4B: Confirmatory Results - Item 4

<b>What drugs/metabolites were detected in Item 4?</b>					
<b>WebCode</b>	<b>Analyte Reported</b>	<b>Qualitative Only</b>	<b>Reported Concentration</b>	<b>Uncertainty</b>	<b>Units</b>
ZCHUZW	Fluoxetine	✓			
ZX2YKZ	Carboxy-tetrahydrocannabinol (THC-COOH)	✓			
	Fluoxetine	✓			

<b>Confirmatory Response Summary for Item 4</b>	<b>Participants: 104 [ No Response: 24 ]</b>
<p>Carboxy-tetrahydrocannabinol (THC-COOH): 54</p> <p>Fluoxetine: 86</p> <p>Norfluoxetine: 19</p> <p>Other Identified Drugs/Metabolites: 1</p> <p>No Drugs/Metabolites Detected Utilizing Confirmatory Methods: 2</p> <p><i>Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.</i></p>	

# Raw Data - Item 4

TABLE 4C

**Item 4 Raw Data - Carboxy-tetrahydrocannabinol (THC-COOH)**  
**Preparation concentration: 90 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)					
4244QG	54.220					54.220
AC6K3E	55.230					55.230
AXQC3B	48.120					48.120
HQWACH	75.130	72.470	77.690	85.640	75.180	77.220
JHL9QG	58.490	57.970				58.230
KAM3C7	56.660	57.240				56.950
NB2WGW	72.840					72.840
Q6ABNZ	88.850	89.560				89.210
R7YWUW	52.390					52.390
RVK2GH	32.000	32.000	34.000	31.000	33.000	32.400
VRQCKU	74.000					74.000

Statistical Analysis for Item 4 - Carboxy-tetrahydrocannabinol (THC-COOH)	
Grand Mean <b>60.98</b>	Number of Participants Included <b>11</b>
Standard Deviation <b>15.90</b>	Number of Participants Excluded <b>0</b>
<i>by Critical H value of <b>2.339</b></i>	

TABLE 4C: Raw Data - Item 4  
**Item 4 Raw Data - Fluoxetine**  
**Preparation concentration: 650 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)	
C4NN9R	1,511.0	1,542.0

**Statistical Analysis for Item 4 - Fluoxetine**

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

TABLE 4C: Raw Data - Item 4  
**Item 4 Raw Data - Norfluoxetine**  
**Preparation concentration: 310 ng/mL**

**WebCode    List of Raw Data determinations (ng/mL)**

No Raw Data results were reported for this Drug/Analyte for Item 4.

**Statistical Analysis for Item 4 - Norfluoxetine**

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

# Reporting Procedures - Item 4

TABLE 4D - Item 4

WebCode	Quantitative Reporting Procedures
4244QG	A single determination.
7YEG9D	The mean of duplicate/several determinations.
AC6K3E	A single determination.
AXQC3B	A single determination.
BHUH6B	A single determination.
C4NN9R	The mean of duplicate/several determinations.
EXQ7MC	A single determination.
HQWACH	The mean of duplicate/several determinations.
JHL9QG	The mean of duplicate/several determinations.
KAM3C7	The lowest of the duplicates
NB2WGW	A single determination.
Q6ABNZ	The lowest concentration in duplicate analysis
QPWZV8	A single determination.
R7YWUW	A single determination.
RVK2GH	The mean of duplicate/several determinations.
VRQCKU	A single determination.
WQAHJK	external confirmation
ZCHUZW	Qualitative Only

Response Summary for Item 4	Participants: 18
A single determination:	9 (50.0%)
The mean of duplicate/several determinations:	5 (27.8%)
Other:	4 (22.2%)

## Methods of Analysis - Item 4

TABLE 4E - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
24LENX	LC-HRMS/MS GC/MS	✓	✓	
2GQUCE	Immunoassay GC/MS	✓ ✓	✓	
2K76PH	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓	
2KAPDL	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
2N93ZB	GC/MS LC/MS/MS	✓	✓	
2ZJFFQ	Immunoassay LC-QTOF GC/MS	✓ ✓	✓ ✓	
3WXBWL	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
3ZG6WT	Immunoassay GC/MS LC-HR/MS/MS	✓ ✓ ✓	✓ ✓	
4244QG	LC-QTOF-MS LC/MS/MS	✓	✓	✓
47EG9F	GC/MS LC-QTOF LC-QTOF-MS	✓ ✓	✓ ✓	
4B9B7G	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
4BA9FC	GC/MS		✓	
4ET4GJ	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
4ET77N	Immunoassay GC/MS	✓ ✓	✓	

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
4JPUMV	LC-HRMS/MS	✓	✓	
	GC/MS	✓	✓	
	Immunoassay	✓		
4V3UJN	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS		✓	
6EAJAR	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/HRMS/MS (Orbitrap)	✓	✓	
72ZHQ7	Immunoassay	✓		
73DT4D	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
7YEG9D	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
89UNK8	Immunoassay	✓		
	LC-QTOF	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
933Z38	LC-QTOF-MS	✓	✓	
9FNF4L	Immunoassay	✓		
	LC-HRMS/MS	✓		
	GC/MS		✓	
9GJVFH	Immunoassay	✓		
	GC/MS	✓	✓	
9K4QGP	High resolution accurate mass	✓		
	GC/MS		✓	
9MPRZH	Immunoassay	✓		
	GC/MS	✓	✓	
A8DDK7	Immunoassay	✓		
A9NF4J	Immunoassay	✓		
	GC/MS	✓		
AC6K3E	LC-QTOF-MS	✓		
	LC/MS/MS		✓	✓

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
AJ7WYC	GC/MS	✓	✓	
	Immunoassay	✓		
	LC/MS/MS		✓	
AKEAGD	Immunoassay	✓		
	GC/MS		✓	
AL9V8J	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
ALARHE	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
ALDC7H	GC/MS	✓	✓	
APTMJL	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
AU8H24	Immunoassay	✓		
AXQC3B	LC-QTOF-MS	✓		
	LC/MS/MS		✓	✓
AXQERF	LC/MS/MS	✓	✓	
BHUH6B	LC/MS/MS	✓	✓	✓
	LC-QTOF	✓		
	GC/MS		✓	
BJ4LFD	Immunoassay	✓		
	LC-QTOF	✓	✓	
	GC/MS		✓	
BYGX98	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
C4NN9R	LC/MS/MS	✓	✓	✓
	GC/MS	✓	✓	
C7V78M	Immunoassay	✓		
	GC/MS	✓	✓	
CKQKA3	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
CP7VM7	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
CQ47HA	Immunoassay GC/MS	✓	✓	
DMEJYK	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
E2AZNH	LC-HRMS/MS GC/MS	✓	✓	
EH2XRY	LC/MS/MS	✓	✓	
ELZAMY	LC/MS/MS	✓	✓	✓
EPK2Y2	Immunoassay	✓		
EXQ7MC	LC/MS/MS	✓	✓	✓
F4WYG8	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
F6RFU4	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	
FTAZNG	Immunoassay GC/MS LC-HRMSMS	✓ ✓ ✓	✓ ✓	
FY36GK	LC-QTOF GC/MS LC/MS/MS	✓ ✓ ✓	✓	
FYFUHC	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	
GUZJ69	Immunoassay GC/MS	✓	✓	
GZRQNG	GC/MS LC-HRMS/MS	✓	✓	
H9F2D3	LC/MS/MS GC/MS Rapid Chromatographic Immunoassay	✓ ✓ ✓	✓	
H9F438	Immunoassay LC/MS/MS LC-QTOF GC/MS	✓ ✓	✓ ✓ ✓	

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
HFDTLW	Immunoassay GC/MS	✓	✓	
HQWACH	LC/MS/MS	✓	✓	✓
J8Z4HH	LC/HRAM/MS LC/MS/MS	✓	✓	
JD7XDD	LC-HRMS/MS GC/MS	✓	✓ ✓	
JG4ERT	Immunoassay	✓		
JHL9QG	LC-QTOF GC/MS LC/MS/MS Immunoassay GC-QQQ	✓ ✓ ✓ ✓ ✓	✓  ✓	
JJX6X8	LC/MS/MS	✓	✓	
JMCHZF	GC/MS LC-HRMSMS Immunoassay	✓ ✓ ✓	✓ ✓	
JWGMRW	Immunoassay	✓		
K67XDB	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
K9TC7R	Immunoassay	✓		
KAM3C7	Immunoassay LC/MS/MS	✓	✓	✓
KWZQZW	Immunoassay GC/MS	✓	✓	
LFM2Z2	Immunoassay	✓		
LGHMR8	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
LGZE3C	LC-HRMS/MS GC/MS	✓	✓	
LHVW4D	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
MEQLPP	LC/MS/MS GC/MS	✓	✓	
NB2WGW	Immunoassay LC/MS/MS LC/IT/MS	✓ ✓	✓	✓
P9T7P8	LC-HRMSMS GC/MS	✓	✓	
PEJF2Q	GC/MS		✓	
Q6ABNZ	Immunoassay LC/MS/MS	✓	✓	✓
QAJN7Y	LC/MS		✓	
QAJQV4	Immunoassay LC-HR-MSMS GC/MS	✓ ✓	✓	
QDH3TN	Immunoassay	✓		
QPWZV8	GC/MS LC/MS/MS LC-HR/MS/MS	✓	✓ ✓	✓
QXBL6B	LC/MS/MS GC/MS	✓	✓	
QZT7P6	GC/MS LC- HRMS/MS Immunoassay	✓ ✓ ✓	✓ ✓	
R7YWUW	LC-QTOF-MS LC/MS/MS	✓	✓	✓
RJ3HWL	Immunoassay	✓		
RVK2GH	Immunoassay LC/MS/MS	✓ ✓	✓ ✓	✓
RWDVC2	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
RZXMN4	Immunoassay GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
T2M9UZ	Immunoassay	✓		

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
T3JQV2	LC/MS/MS GC/MS	✓	✓	
T6LMGP	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
TJ82KP	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
TMPDK7	Immunoassay	✓		
TX4DTT	GC/MS LC-QTOF-MS		✓ ✓	
UEECY7	Immunoassay	✓		
VEMQKQ	GC/MS		✓	
VRMULV	Immunoassay	✓		
VRQCKU	Immunoassay GC/MS	✓	✓	✓
VRQEAY	Immunoassay GC/MS LC-HRMS	✓ ✓ ✓	✓ ✓	
VYAHJL	GC/MS Immunoassay LC/MS/MS	✓ ✓ ✓	✓	✓
W8XT62	Immunoassay GC/MS LC-HR MS/MS	✓ ✓ ✓	✓ ✓	
WJCQBQ	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
WN8K9R	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	✓
WPD38M	GC/MS		✓	

TABLE 4E: Methods of Analysis - Item 4

WebCode	Method	Screening	Confirmatory	Quantitation
WQAHJK	Immunoassay	✓		
	GC-FID	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
	LC-QTOF-MS	✓		
WRKGGE	Immunoassay	✓		
	GC/MS		✓	
WY2X9N	GC/MS		✓	
YAEWRP	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
YDYQTW	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
YLTWNH	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		✓
YMNCZF	Immunoassay	✓		
YMYEKT	Immunoassay	✓		
	LC/MS/MS	✓	✓	
YRFJJN	GC/MS	✓	✓	
	Immunoassay	✓		
	LC/MS/MS	✓		✓
ZCHUZW	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
ZX2YKZ	Immunoassay	✓		
	LC/MS/MS		✓	

Response Summary for Item 4 - Methods of Analysis			Participants: 121
	Screening	Confirmatory	Quantitation
<b>Immunoassay:</b>	83	1	0
<b>GC/MS:</b>	50	82	2
<b>LC/MS:</b>	0	1	0
<b>LC/MS/MS:</b>	40	31	31
<b>LC-QTOF:</b>	8	4	0
<b>LC-QTOF-MS:</b>	9	3	0
<b>Other:</b>	29	15	0

## **Additional Comments for Item 4**

TABLE 4F

WebCode	Item Comments
24LENX	IS: mephobarbital, mepivacaine, nalorphine, thc-cooh-d9
2N93ZB	Standard interne THC-COOH-D3; Standard interne Diazepam-D5;
2ZJFFQ	ELISA: positive for Cannabinoids; cocaine assay omitted due to kit expiration; no cocaine/metabolites detected by other analyses. Internal standards used for LC-QTOF analysis: fentanyl-D5, imipramine-D3, MDMA-D5, methaqualone-D7, triazolam-D4. Caffeine detected but not confirmed.
3ZG6WT	Mepivacaine used as internal standard.
47EG9F	ESTAZOLAM WAS USED AS AN INTERNAL STANDARD
4B9B7G	Internal standard for GC/MS screening and confirmation is Promazine. Internal standard for cannabinoid GC/MS confirmation is cannabiniol. Internal standard for GHB quantitative screen is GHB-D6.
4ET77N	Mepivacaine, n-Propylamphetamine and Hexobarbital were used as internal standards.
4JPUMV	Internal Standards: LC-HRMS/MS: mepivacaine/ mephobarbital GC/MS: mepivacaine
73DT4D	Internal standard used for general drug screen was promazine. Internal standard used for GHB quantitative screen was GHB-D6.
7YEG9D	1. Internal standards used: Promazine, Prazepam, GHB-d6. 2. Immunoassay yielded elevated results for Cannabinoid assay. Not pursued per policy. 3. The laboratory limit of quantitation for GHB is 2 mg//L. Results below this limit are listed as "Not Detected".
9FNF4L	Internal Standard: mepivacaine
9K4QGP	internal standard: mepivacaine, mephobarbital, THC-COOH-d9
9MPRZH	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards. An immunoassay response below cutoff was noted for Carboxy-tetrahydrocannabinol (THCCOOH), but results of confirmation testing were inconclusive due to interfering substance.
AJ7WYC	Fluoxetine and Norfluoxetine confirmatory analysis performed using an ad hoc laboratory method.
AKEAGD	SKF 525-A and NPA are the internal standards used for basic drug screen by GC/MS. Cannabinoids assay indicated positive by ELISA. Our current LC/MS-MS method that is used for cannabinoids is only validated for blood.
AL9V8J	Internal standard used- Mepivacaine. Urine cannabinoids cannot be confirmed by current lab analytical procedures.
ALDC7H	Possible fluoxetine and norfluoxetine were noted in the urine as well, however these are not covered in our current scope of analysis. We do not have standards for these drugs.
APTMJL	internal standard used for gcms and lchrmsms was mepivacaine
BYGX98	Promazine was used as the internal standard for the Drug Screen analysis, prazepam was used as the internal standard for the Benzodiazepine confirmation, and GHB-d6 was used as the internal standard for the GHB Quantitation analysis. The LOD for the GHB Quantitation analysis is 2 mg/L.
C4NN9R	No internal standard was used.
C7V78M	Immunoassay screen performed by EMIT for six drug classes: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, and PCP. EMIT screen rendered positive results for Cannabinoids (Carboxy-THC confirmed detected by GC/MS). The following drugs were screened for by GC/MS and were found NOT DETECTED: 7-Aminoflunitrazepam, Ketamine, Norketamine, and Gamma-Hydroxybutyric Acid (GHB).

TABLE 4F: Additional Comments for Item 4

WebCode	Item Comments
CKQKA3	The cut-off value of fluoxetine is 50 ng/mL for LC/MS/MS The cut-off value of Carboxy-tetrahydrocannabinol (THCCOOH) is 15 ng/mL for GC/MS
CP7VM7	Promazine (ISTD) - Drug Screen for Urine GHB-D6 (ISTD) - GHB Quantitative Screen for Urine Prazepam (ISTD) - Benzodiazepine Confirmation for Urine
CQ47HA	The methods used were immunoassay and GC/MS
DMEJYK	Internal standard used was mepivacaine.
E2AZNH	Internal standards used for LC-HRMS/MS screening: Mepivacaine, Mephobarbital Internal standards used for GC/MS confirmation tests: Mepivacaine, THC-COOH-d9
ELZAMY	We test for a limited drug panel including fentanyl, hydromorphone, MDEA, MDPV, sufentanil, xylazine
EPK2Y2	Creatinine Normal
FTAZNG	Internal Standard: Mepivacaine
FY36GK	LC-QTOF and GC-MS screen for fluoxetine and norfluoxetine. LC-MS/MS screen for THC-COOH and confirm for all analytes.
FYFUHC	THC-COOH was detected on LC-MS/MS at ~72ng/mL but did not meet the immunoassay threshold of 50ng/mL so it was not reported (Immunoassay response was 11 ng/mL).
GZRQNG	THC-COOH d9, mepivacaine & mephobarbital internal standards
H9F2D3	An iCassette (THC) test device was used to screen for THC, referred to in 4-5 as rapid chromatographic immunoassay.
HFDTLW	- The internal standard used was D3-THC-COOH - All of the urine samples should be investigated using immunoassay as presumptive screening tests.
HQWACH	Method: precipitation with cold acetonitrile; Internal Standard: THC-COOH D9; Detection limit (DL): 10 ng/mL; Column: Kinetex® 2.6 µm Biphenyl 100 Å; Size: LC Column 100 X 2.1 mm.
JD7XDD	Internal Standards: Mepivacaine/Mephobarbital (LC-HRMS/MS) and Mepivacaine (GC/MS)
JHL9QG	Negative for gamma hydroxybutyric acid.
JJX6X8	THC-COOH: ISTD THC-COOH-d9; LOD 5ng/mL
JMCHZF	Istd-mepivacaine for both
JWGMRW	Creatinine is Normal.
K67XDB	Internal Standard - Mepivacaine
KAM3C7	These results are from a pre-distribution analysis of 26-5671 [Participant Code]. This sample screened presumptive positive for amphetamine. Upon confirmation of the amphetamine result using our basic drugs confirmation method, no drugs were detected. The scope of our method is: Basic Drug Confirmation (Liquid Chromatography/Tandem Mass Spectrometry LC/MS/MS): Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD Qualitatively: ephedrine/pseudoephedrine, psilocin
LGHMR8	Internal Standard: Mepivacaine, Nalorphine Norfluoxetine - Not reported, no retention time available for Delta RT comparison Immunoassay indicative for Cannabinoids - Urine Cannabinoids generally cannot be identified by current State Crime Laboratory analytical procedures.
LGZE3C	Internal Standard: mepivacaine (LC-HRMS/MS and GC/MS), mepivacaine/nalorphine (GC/MS), deuterated THC-COOH (GC/MS). Amphetamine and Methamphetamine not found in confirmatory GC testing so they are not being reported.

TABLE 4F: Additional Comments for Item 4

WebCode	Item Comments
LHVW4D	Internal standard: mepivacaine for GC/MS and LC-HRMS/MS Caffeine - not in the list of possible sample analyte.
MEQLPP	The LCMSMS screening method uses d9-THC-COOH and d6-zolpidem for internal standards. The LOD for THC-COOH and fluoxetine in this method is 10ng/mL and 50ng/mL, respectively. The GCMS confirmation method uses d9-THC-COOH and proadifen for internal standards.
NB2WGW	Immunoassay was used for the screening of cannabinoids and LC/MS/MS was used for the confirmatory and quantitation of THC-COOH. LC/IT/MS was used for the screening of fluoxetine and norfluoxetine and LC/MS/MS was used for the qualitative confirmation of fluoxetine and norfluoxetine.
P9T7P8	Internal Standards used: Mepivacaine, Mephobarbital, Nalorphine, and THC-COOH-d9
PEJF2Q	Internal Standard: SKF-525A
Q6ABNZ	Item 4 was analyzed using Immunoassay Drug Screen, Basic Drug Confirmation, and Cannabinoids Confirmation. The scope for Immunoassay Drug Screen is: amphetamine, barbiturates, benzodiazepines, buprenorphine, cocaine/benzoylcegonine, cannabinoids, carisoprodol, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine (PCP), tramadol, zolpidem. The scope for Basic Drug Confirmation is - Quantitatively: amphetamine, diphenhydramine, ketamine, MDA, MDMA, mescaline, methamphetamine, phentermine, LSD; Qualitatively: ephedrine/pseudoephedrine, psilocin. The scope for Cannabinoids Confirmation - Quantitatively: THC, 11-nor-9-Carboxy-THC, 11-Hydroxy-THC; Qualitatively: delta-8-THC, 11-nor-9-Carboxy-delta-8-THC.
QAJN7Y	No screening tests performed. Waiting on test kits. No controlled substances present. Fluoxetine and norfluoxetine present.
QAJQV4	Internal standard: mepivacaine
QPWZV8	THC-COOH quantitative curve used to determine qualitative result
QZT7P6	Internal Standard - Mepivacaine
RWDVC2	Currently the State Crime Laboratory does not have an analytical procedure to confirm cannabinoids in urine.
RZXMN4	GC/MS & LC-HRMS/MS Internal Standard: mepivacaine
T2M9UZ	I ran this case and did not call COO-THC because it was not above the 50ng/ml as is our policy. My result was 16-17 ng/ml. With a sexual assault case our policy would be to also do a more comprehensive liquid chromatography/tandem mass spectrometry drug screening panel on this case. I am not authorized to perform this testing, so it was not performed on the proficiency item 4.
T6LMGP	Promazine used as Internal Standard for Drug Screen. Prazepam used as Internal Standard for Benzodiazepines. GHB-D6 used as the Internal Standard for GHB Quantitation. Limit of Detection for GHB is 2.0 mg/L, values below this are not reported.
TJ82KP	Internal Standards: Promazine/Prazepam/GHB-d6
VEMQKQ	Tetracosan was used as an internal standard.
VRQCKU	Caffeine detected - not reported. Delta-9-Carboxy-THC is quantitated, however the report only indicates that it was identified by confirmation. Lab does not report concentration.
W8XT62	Internal standard-Mepivacaine
WQAHJK	Confirmatory analysis performed externally therefore no information available.
WY2X9N	* Internal standard: flurazepam * Sample preparation: L/L extraction. * The final extract is derivatized with BSTFA, and analyzed by GC/MS.

TABLE 4F: Additional Comments for Item 4

WebCode	Item Comments
YDYQTW	LC/MS/MS method used was High Resolution Mass Spectrometry/Mass Spectrometry Mepivacaine was used as internal standard for both GC/MS and LC/MS/MS
YLTWNH	Promazine was used as internal standard for general GC/MS screen and confirmation. Prazepam was used for internal standard for benzodiazepine targeted GC/MS confirmation. GHB-d6 was used as internal standard for LC/MS/MS quantitative screen. Lower limit of detection/quantitation for GHB quantitative screen is 2 mg/L.
YMYEKT	Low levels of THC-carboxy present on immunoassay screen but below the LOD of 59 ng/mL. Testing also indicated norfluoxetine was present, however, the LC-MS/MS method performed for screening and confirmation only detect one fragment for norfluoxetine. Therefore, norfluoxetine is reported as Presence Indicated.
ZBLENZ	Item was not tested.
ZCHUZW	Internal Standards: Mepivacaine/Mephobarbital. Mepivacaine Immunoassay amp neg cal check and control failed on 2/26/26-needed to be repeated on 3/3/26

## Additional Test Comments

TABLE 5

WebCode	Additional Comments
47EG9F	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of receipt of the samples, due to a delay in the delivery of the package by customs.
9GJVFH	The laboratory does not currently screen/confirm cannabinoids in urine.
ALDC7H	We do not have an ELISA screen for ketamine at this time. Our Cannabinoid ELISA cutoff is 50ng/mL.
C4NN9R	There is need to provide matrix blanks.
CQ47HA	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of sample receipt, due to a delay in package delivery by customs.
ELZAMY	We test for a limited drug panel including fentanyl, hydromorphone, MDEA, MDPV, sufentanil, xylazine
HQWACH	The method is currently under validation. Measurement uncertainty has not be yet been established; therefore, the field was left blank.
K67XDB	Caffeine in all samples.
TX4DTT	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of sample receipt, due to a delay in package delivery by customs.
VEMQKQ	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of sample receipt, due to a delay in package delivery by customs.
WPD38M	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of sample receipt, due to a delay in package delivery by customs.
WY2X9N	We regret to inform you that it was not possible to fully guarantee the required storage conditions for the proficiency testing items until the date of sample receipt, due to a delay in package delivery by customs.

-End of Report-  
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

**Test No. 26-5671: Urine Drug Analysis**

DATA MUST BE SUBMITTED BY **April 20, 2026, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 6HMJ6X

**Scenario:**

Investigators have submitted four urine specimens from four separate cases for analysis. Using your laboratory's procedures, analyze each sample and report the presence of any drugs and/or metabolites.

Case 1: A 30-year-old male was pulled over for reckless driving. Officers described the driver as detached with clearly impaired functioning and reasoning abilities. He was arrested and 30 minutes later displayed intense confusion and aggression towards those around him. A urine sample was collected within 4 hours of arrest.

Case 2: A 47-year-old female crashed into a cement traffic barrier early in the morning. She told police she was tired and had dozed off. Officers noted constricted pupils and droopy eyelids. She denied the use of any prescription drugs. A urine sample was collected at the hospital 6 hours later.

Case 3: A mother was asked to submit a urine sample for testing after a family caseworker contacted police about possible child endangerment. A visiting family member reportedly witnessed the mother using drugs inside of their home the night prior and accused her of misusing the child's medication.

Case 4: A 23 year-old-female reported a possible sexual assault after waking up especially hungover with difficulty recalling the events from a party she attended the night before. She knew she had been drinking and smoking at the party. A urine sample was collected 24-36 hours after the start of the event.

*-A list of potential analytes is located here: [https://cts-forensics.com/pdfs/CTS\\_UrineDrug\\_AnalyteList.pdf](https://cts-forensics.com/pdfs/CTS_UrineDrug_AnalyteList.pdf)*

*-Samples may contain methanol and acetonitrile as artifacts from production.*

**Items Submitted (Sample Pack UDRG):**

Item 1: Urine sample from Case 1

Item 2: Urine sample from Case 2

Item 3: Urine sample from Case 3

Item 4: Urine sample from Case 4

**Screening Results for Item 1:**

1-1). Please indicate the screening results for Item 1. If your instrumentation only returns general drug categories and not specific drugs/metabolites, report your findings within the Drug Category section only.

(Select from the following drop-down menus. If the terminology below differs from your typical screening categories, select the response that best fits and indicate your preferred language in the comment section.)

- No drugs detected utilizing screening methods.
- Drug(s) detected. Select each drug category and drug below.

<b>Drug Category</b>	<b>Drug/Metabolite</b>
<input type="text"/>	<input type="text"/>

**Confirmatory Results for Item 1:**

1-2). Was confirmatory analysis performed for this item?  Yes  No

1-3). What drugs/metabolites were detected in Item 1? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	( <input type="text"/> )
Date(s) Analysis Performed on Analyte: <input type="text"/>				
Raw Data (ng/mL):				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination?  The mean of duplicate / several determinations?
- Other? (Specify):

1-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

<b>Method Used</b>	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1-6). **Additional Comments for Item 1**  
Please include any relevant information such as internal standard(s) used, limits of detection, etc.

*Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

**Screening Results for Item 2:**

2-1). Please indicate the screening results for Item 2. If your instrumentation only returns general drug categories and not specific drugs/metabolites, report your findings within the Drug Category section only.

(Select from the following drop-down menus. If the terminology below differs from your typical screening categories, select the response that best fits and indicate your preferred language in the comment section.)

- No drugs detected utilizing screening methods.
- Drug(s) detected. Select each drug category and drug below.

<b>Drug Category</b>	<b>Drug/Metabolite</b>
<input type="text"/>	<input type="text"/>

**Confirmatory Results for Item 2:**

2-2). Was confirmatory analysis performed for this item?  Yes  No

2-3). What drugs/metabolites were detected in Item 2? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	( <input type="text"/> )
Date(s) Analysis Performed on Analyte: <input type="text"/>				
Raw Data (ng/mL):				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination?  The mean of duplicate / several determinations?
- Other? (Specify):

2-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

<b>Method Used</b>	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2-6). **Additional Comments for Item 2**  
Please include any relevant information such as internal standard(s) used, limits of detection, etc.

*Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

**Screening Results for Item 3:**

3-1). Please indicate the screening results for Item 3. If your instrumentation only returns general drug categories and not specific drugs/metabolites, report your findings within the Drug Category section only.

(Select from the following drop-down menus. If the terminology below differs from your typical screening categories, select the response that best fits and indicate your preferred language in the comment section.)

- No drugs detected utilizing screening methods.
- Drug(s) detected. Select each drug category and drug below.

<b>Drug Category</b>	<b>Drug/Metabolite</b>
<input type="text"/>	<input type="text"/>

**Confirmatory Results for Item 3:**

3-2). Was confirmatory analysis performed for this item?  Yes  No

3-3). What drugs/metabolites were detected in Item 3? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	( <input type="text"/> )
Date(s) Analysis Performed on Analyte: <input type="text"/>				
Raw Data (ng/mL):				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination?  The mean of duplicate / several determinations?
- Other? (Specify):

3-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

<b>Method Used</b>	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3-6). **Additional Comments for Item 3**  
Please include any relevant information such as internal standard(s) used, limits of detection, etc.

*Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

**Screening Results for Item 4:**

4-1). Please indicate the screening results for Item 4. If your instrumentation only returns general drug categories and not specific drugs/metabolites, report your findings within the Drug Category section only.

(Select from the following drop-down menus. If the terminology below differs from your typical screening categories, select the response that best fits and indicate your preferred language in the comment section.)

- No drugs detected utilizing screening methods.
- Drug(s) detected. Select each drug category and drug below.

<b>Drug Category</b>	<b>Drug/Metabolite</b>
<input type="text"/>	<input type="text"/>

**Confirmatory Results for Item 4:**

4-2). Was confirmatory analysis performed for this item?  Yes  No

4-3). What drugs/metabolites were detected in Item 4? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	( <input type="text"/> )
Date(s) Analysis Performed on Analyte: <input type="text"/>				
Raw Data (ng/mL):				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination?  The mean of duplicate / several determinations?
- Other? (Specify):

4-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

<b>Method Used</b>	<b>Screening</b>	<b>Confirmatory</b>	<b>Quantitation</b>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4-6). **Additional Comments for Item 4**  
Please include any relevant information such as internal standard(s) used, limits of detection, etc.

**Note:** Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.

Date Samples Received:

**Additional Comments on Test**

*Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

## RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ANAB and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ANAB and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is **not** intended for submission to ANAB and/or A2LA.

Have the laboratory's designated individual complete the following steps only if your laboratory is accredited in this testing/calibration discipline by one or more of the following Accreditation Bodies.

**Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.**

ANAB Certificate No.

A2LA Certificate No.

**Step 2: Complete the Laboratory Identifying Information in its entirety.**

Authorized Contact Person and Title

Laboratory Name

Location (City/State)