


















*Byylee*

**Worklist: 6752**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-0539	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-0539	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-0539	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-0539	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-0564	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0585	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0591	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0595	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0597	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0598	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0603	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0620	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0626	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0633	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0646	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-0647	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-0648	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

# AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

BWylie

Extraction Date: 4/3/24

Plate lot#: 231213

Mobile phase A: 10mM Amm Form

Blank Blood Lot: 24C52042 (Btl 3)

LCMS-QQQ ID: 69679

Analyst: Britany Wylie

Plate Retest Date: 6/13/2024

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Urine Lot: 1324

Column: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. **Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.**
- 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.  
**Pipette ID: P31168J**
- 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.  
Amount transferred: 300
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
**(Load at 85-100 PSI- Selector to the right).**
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add **900uL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  **If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).** SPE Dry ID: 66819
- 16. Reconstitute in **100µL 20% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.
- 2. Make necessary changes to integration limits
- 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration of 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *Started run, some compounds outside acquisition window. Adjusted acquisition times and restarted run.*



**Idaho State Police  
Forensic Services**

*Boyle*

**AM #25 Multidrug Screen and AM #28 Confirmation  
Multidrug Control Prep Sheet**

**Methanol External Control Working Solution (Lot: WS72623)**

50 µL 1mg/ml methamphetamine, alprazolam, diphenhydramine, and morphine in ~4800 µL MeOH

*Approximate concentration 10000ng/ml of each compound*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methamphetamine	Cerilliant	FE03132001	7/1/2025
Alprazolam	Cerilliant	FE06102008	6/1/2025
Diphenhydramine	Cerilliant	FE02212011	3/1/2025
Morphine	Cerilliant	FE03232010	4/1/2025
Prepared:	07/26/2023		
Expires:	07/26/2024		
Prepared By:	Anne Nord		

**Urine External Control Solution**

*500 ul of methanol external control working solution to 4500 ul of urine.*

*Approximately 1000 ng/ml of each compound*

<i>Negative urine source and lot number</i>	<i>Date prepared</i>	<i>Expiration</i>	<i>Lot number</i>	<i>Prepared by</i>	<i>Out of use</i>
In house 61423	07/26/23	07/26/24	U72623	Anne Nord	

**Blood External Control Solution**

*50 ul of methanol external control working solution to 4950 ul of blood.*

*Approximately 100ng/ml of each compound*

<i>Negative blood source and lot number</i>	<i>Date prepared</i>	<i>Expiration</i>	<i>Lot number</i>	<i>Prepared by</i>	<i>Out of use</i>
Lampire 23C57106	07/26/23	07/26/24	B72623	Anne Nord	

BWylee

	1	2	3	4	5	6	7	8
A	cal 1	external urine control		0620-1	Negative blood			
B				0626-1	0564-1			
C	internal urine control	0539-1		0633-1	0585-1			
D		0539-2		0647-1	0591-1			
E		0539-3		0648-1	0595-1			
F		0539-4		Blood External	0597-1			
G					0598-1			
H	0646-1			negative urine	0603-1			

C2024-\_\_\_\_-

plate position 2

# AM #25 Multi-Drug Screen. Results

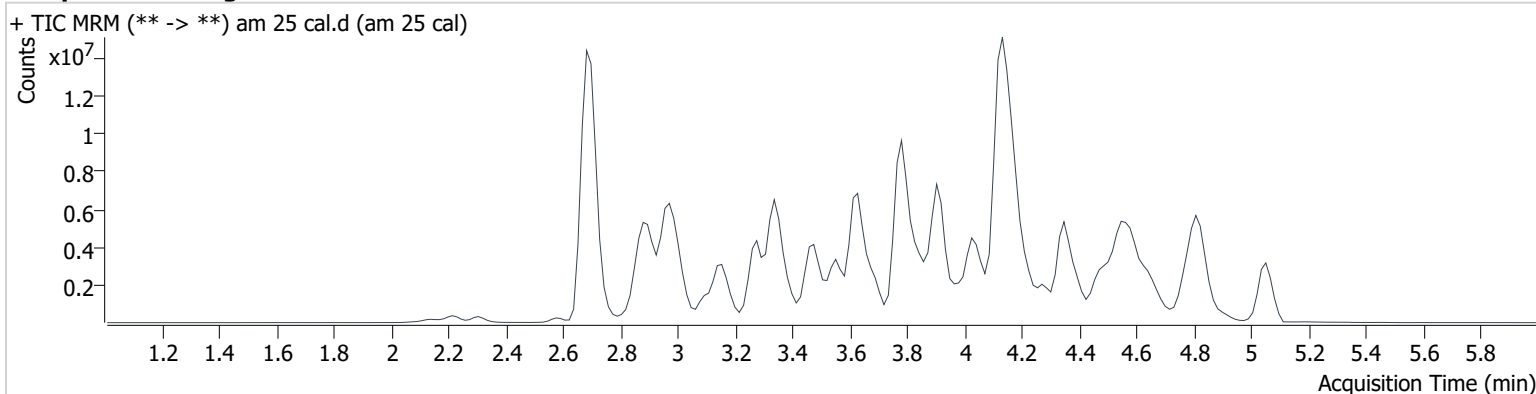
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mds 4324.m  
**Sample Position** P2-A1  
**Injection Volume** 2.5  
**Acq. Date-Time** 4/3/2024 2:57:44 PM  
**Sample Info.**

**Data File** am 25 cal.d  
**Sample** am 25 cal  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.849	469056	49833.4	35.6	671448	10.000
6-MAM	2.830	22321	13506.3	20680.6	1018303	10.000
7-aminoclonazepam	3.570	236952	118916.2	211702.7	1611941	10.000
7-aminoflunitrazepam	3.815	1011350	1227.8	144.8	1611941	10.000
9-Hydroxyrisperidone	3.916	3785925	2632.9	596.3	1611941	10.000
Acetyl Fentanyl	3.781	185399	149.9	33966.2	4934419	10.000
Acetyl Norfentanyl	2.855	105891	2292.7	302.2	15820228	10.000
a-hydroxyalprazolam	4.687	48193	194.5	15944.4	671448	10.000
alpha-hydroxymidazolam	4.640	632037	2771.1	952.0	3662513	10.000
alpha-PHP	3.835	1365745	504.3	2092.9	3582795	10.000
alpha-PVP	3.529	1473004	716048.9	491.4	3582795	10.000
Alprazolam	4.767	760811	661.4	482.3	3662513	10.000
Amitriptyline	4.586	1140596	671.2	245.2	5092040	10.000
Amphetamine	2.906	1066672	1091.8	6057.5	3582795	10.000
Benzoylecgonine	3.431	32673	3233.4	2641.9	148306	10.000
Bromazolam	4.853	349270	1130.0	34165.3	3662513	10.000
Brompheniramine	4.182	58643	16835.2	1246.5	39800046	10.000
Buprenorphine	4.114	3415	1399.4	174.7	1422118	10.000
Bupropion	3.805	2317107	1783.6	675.1	9889041	10.000
Carbamazepine	4.344	3514025	4930.5	1582.5	3648371	10.000
Carisoprodol	4.295	429257	1978.5	95.7	3124352	10.000
Chlordiazepoxide	4.784	334134	371.2	39746.4	3662513	10.000
Chlorpheniramine	4.062	3944924	13356.1	353.0	7025909	10.000
Chlorpromazine	4.811	1294305	929.7	948.2	7908411	10.000
Citalopram	4.227	1842480	2195.1	658.4	39800046	10.000
Clomipramine	4.827	1733428	634.7	3732.5	4084312	10.000
Clonazepam	4.628	171515	107.9	120.0	47760	10.000
Clonazolam	4.501	196686	520.8	208.6	671448	10.000
clozapine	4.349	1955599	601129.3	2417.1	10438100	10.000
Cocaethylene	3.843	1900445	1605.7	10861.7	13242384	10.000
Cocaine	3.629	2036118	568602.3	135644.9	13242384	10.000
Codeine	2.697	139393	1244.5	11000.9	3648371	10.000

# AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Cyclobenzaprine	4.510	1833741	843.4	151.8	5092040	10.000
Desipramine	4.557	2539686	727575.9	1344.0	5092040	10.000
Dextromethorphan	4.171	976438	5961.2	652.7	7025909	10.000
Dextrorphan	3.403	1256546	361427.6	5539.4	3582795	10.000
Diazepam	5.030	595871	774.0	1690.0	3662513	10.000
Dihydrocodeine	2.650	542971	4367.8	739.2	3648371	10.000
Dimethyltriptamine	2.978	1208828	4034.7	902.8	3582795	10.000
Diphenhydramine	4.142	5291348	3508.4	976.3	39800046	10.000
Doxepin	4.293	1128632	2037.8	315.8	10438100	10.000
Doxylamine	3.632	3463554	2287.1	1902.5	3582795	10.000
Duloxetine	4.507	68213	22600.8	1452616.5	4084312	10.000
EDDP	4.185	142257	4348.7	20323.4	967193	10.000
Estazolam	4.677	1461510	1022.9	555.5	3662513	10.000
Etizolam	4.747	89483	28020.2	107920.9	3662513	10.000
Fentanyl	4.042	177947	30.5	41682.7	11929175	10.000
Flualprazolam	4.595	299827	363.8	1220.4	3662513	10.000
Flunitrazepam	4.735	752933	290812.9	125459.4	671448	10.000
Fluorofentanyl	4.056	160674	70485.5	602.8	11929175	10.000
Fluoxetine	4.491	2078693	2981.2	48305.3	4084312	10.000
Flurazepam	4.208	1646769	70264.9	14871.8	1422118	10.000
Hydrocodone	2.926	505164	736.6	1623.3	3648371	10.000
Hydromorphone	2.308	411908	53507.3	1217232.6	146832	10.000
hydroxyzine	4.638	2440059	975.6	701.4	10438100	10.000
Imipramine	4.555	3985080	975.9	246.9	5092040	10.000
Ketamine	3.374	1493940	7832.4	206.6	5593298	10.000
Lamotrigine	3.557	1234692	64158.7	2910.8	3582795	10.000
Levamisole	2.871	1110389	20344.2	348.9	13242384	10.000
Levetiracetam	2.585	262311	1149.9	598.7	1611941	10.000
Lorazepam	4.596	18094	∞	∞	671448	10.000
Maprotiline	4.586	880503	158908.5	591.6	5092040	10.000
MDA	3.025	1358516	564.8	885.0	13245286	10.000
MDEA	3.269	2431191	18377.6	656.8	13245286	10.000
MDMA	3.101	2421500	24491.0	1176.5	13245286	10.000
Meperidine	3.634	1148187	361923.6	28115.0	146832	10.000
Meprobamate	3.699	214220	97116.8	117.4	3124352	10.000
Methadone	4.536	4292178	3869.3	2077.2	4934419	10.000
Methamphetamine	2.996	1592654	7700.4	∞	13245286	10.000
Methocarbamol	3.650	92003	573.4	1287.1	3124352	10.000
Methylphenidate	3.559	4264531	870.0	45861.4	8499866	10.000
Metoprolol	3.479	513073	2792.3	412832.5	3582795	10.000
Midazolam	4.472	291919	1388.8	86863.5	1611941	10.000
Mirtazapine	3.694	1527158	1440.0	11531.7	1422118	10.000
Mitragynine	4.207	244564	1272.2	1208426.7	11929175	10.000
Morphine	2.140	173724	749.0	1612.6	146832	10.000
Norbuprenorphine	3.885	56498	19591.4	16621.5	1422118	10.000
Nordiazepam	4.879	254484	86915.1	1396.3	3662513	10.000
Norfentanyl	3.359	2678237	1766.2	1936.6	15820228	10.000
Norhydrocodone	2.927	76005	7102.3	9924.1	3648371	10.000
norketamine	3.359	149302	178.2	599302.1	5593298	10.000
Normeperidine	3.667	1379577	708.8	681.5	146832	10.000
Noroxycodone	2.879	528287	57.4	45.3	3648371	10.000
Nortriptyline	4.603	1399263	1103822.7	9820.4	4084312	10.000
O-desmethyl-tramadol	2.899	3473079	1747.5	922.7	4934419	10.000
O-Desmethylvenlafaxine	3.279	994731	494.0	8888.7	4934419	10.000
Olanzapine	3.168	1026677	2952.3	1002.8	4084312	10.000
Oxazepam	4.693	84507	29.0	19.5	671448	10.000
Oxycodone	2.878	1118733	390.8	52.6	5593298	10.000
Oxymorphone	2.212	621298	772.0	707.3	146832	10.000

# AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Paroxetine	4.517	352037	582.1	47410.0	4084312	10.000
Phenazepam	4.808	331205	177041.0	134977.4	3662513	10.000
Phencyclidine	3.989	3008443	908.8	1864.8	4934419	10.000
Phentermine	3.180	752180	1219.0	399.3	8499866	10.000
Phenytoin	4.235	112066	765.9	78.5	47760	10.000
primidone	3.499	1201499	6121.4	319.1	47760	10.000
Promethazine	4.462	3559094	3351619.6	796.5	5092040	10.000
Pseudoephedrine	2.691	44886590	2787.6	2229.9	8499866	10.000
Quetiapine	4.392	2997054	7058.1	12180.6	7025909	10.000
Risperidone	4.084	2775392	37069.8	2056.6	7025909	10.000
Sertraline	4.783	814980	1342.7	17210.7	4084312	10.000
Sufentanil	4.315	146977	94630.0	46807.6	11929175	10.000
Tapentadol	3.483	2685395	1497.8	318263.3	5593298	10.000
Temazepam	4.845	822055	1041.5	111.2	3662513	10.000
Topiramate	3.903	76780	23993.3	29002.5	40672	10.000
Tramadol	3.464	8685901	1121.2	68.9	1018303	10.000
Trazodone	4.178	2104810	619946.0	764090.5	10429233	10.000
Venlafaxine	3.893	3836429	104995.6	665.1	4934419	10.000
Xylazine	3.376	245264	∞	1667.4	4934419	10.000
Zaleplon	4.476	762488	270619.6	92680.1	671448	10.000
Zolpidem	3.783	3435386	1004549.9	542.3	16191194	10.000
Zopiclone	3.870	206552	1680.5	497.4	1014019	10.000

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# AM #25 Multi-Drug Screen. Results

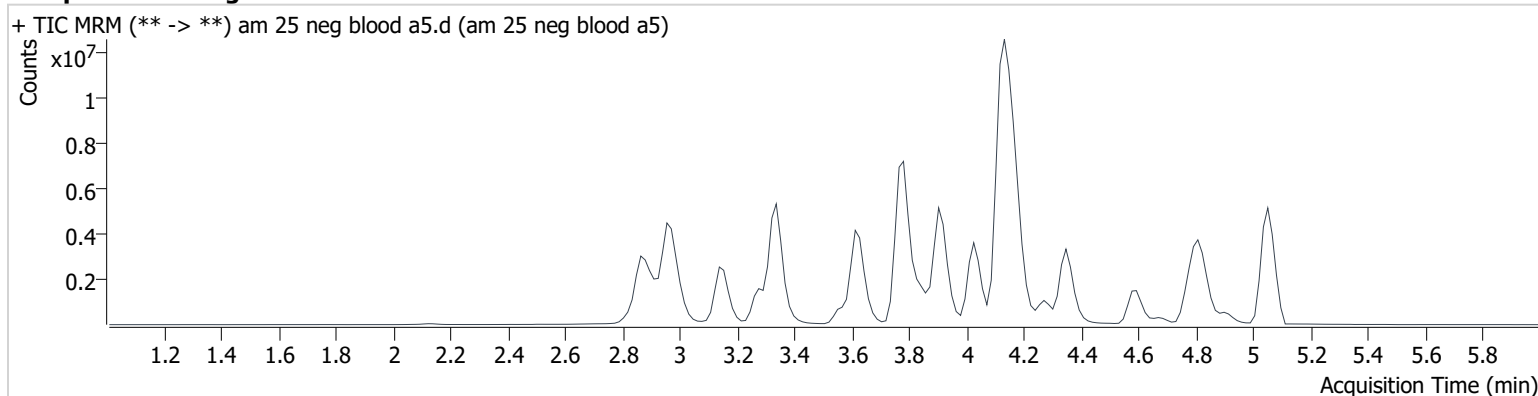
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mds 4324.m  
**Sample Position** P2-A5  
**Injection Volume** 2.5  
**Acq. Date-Time** 4/3/2024 3:11:20 PM  
**Sample Info.**

**Data File** am 25 neg blood a5.d  
**Sample** am 25 neg blood a5  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram





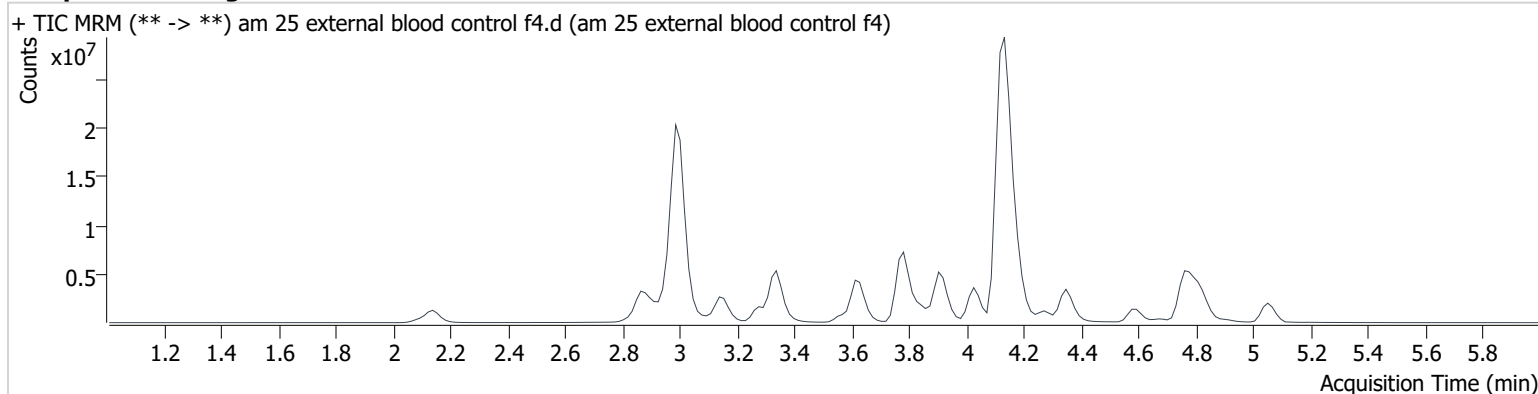
BWylie

# AM #25 Multi-Drug Screen. Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 external blood control f4.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 external blood control f4
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-F4	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/3/2024 4:38:55 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



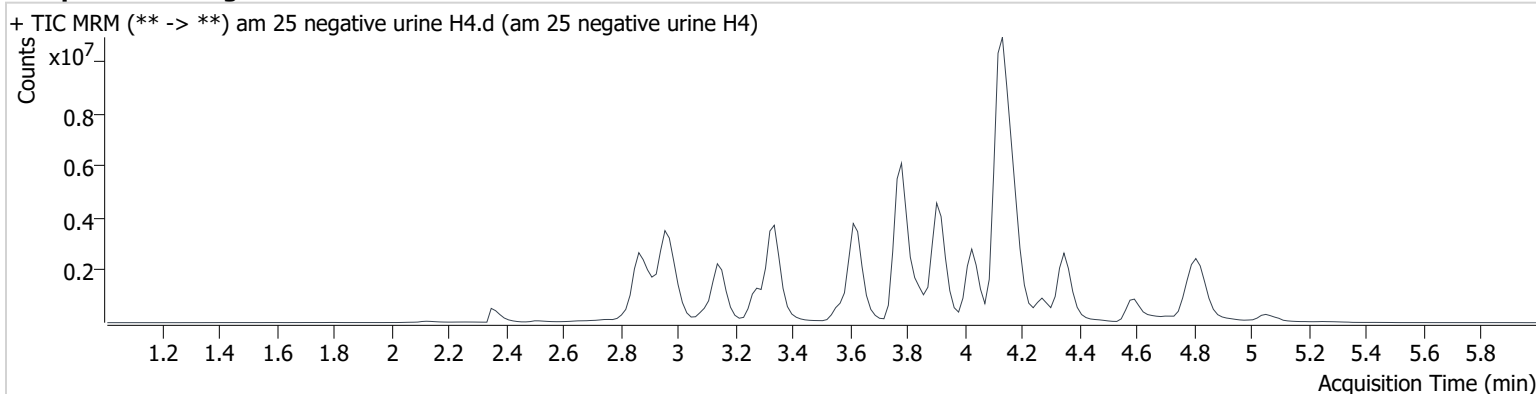
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.767	7942882	1101.3	796.3	4793318	79.771
Diphenhydramine	4.142	47336077	1601.0	4768597.4	37821517	94.139
Hydromorphone	2.141 <b>Low</b>	1021963	527.2	3114.3	158817	22.938
Methamphetamine	2.996	10804277	∞	∞	12742317	70.516
Morphine	2.140	1779033	30939.8	12267.8	158817	94.677

# AM #25 Multi-Drug Screen. Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative urine H4.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative urine H4
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-H4	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/3/2024 4:52:24 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



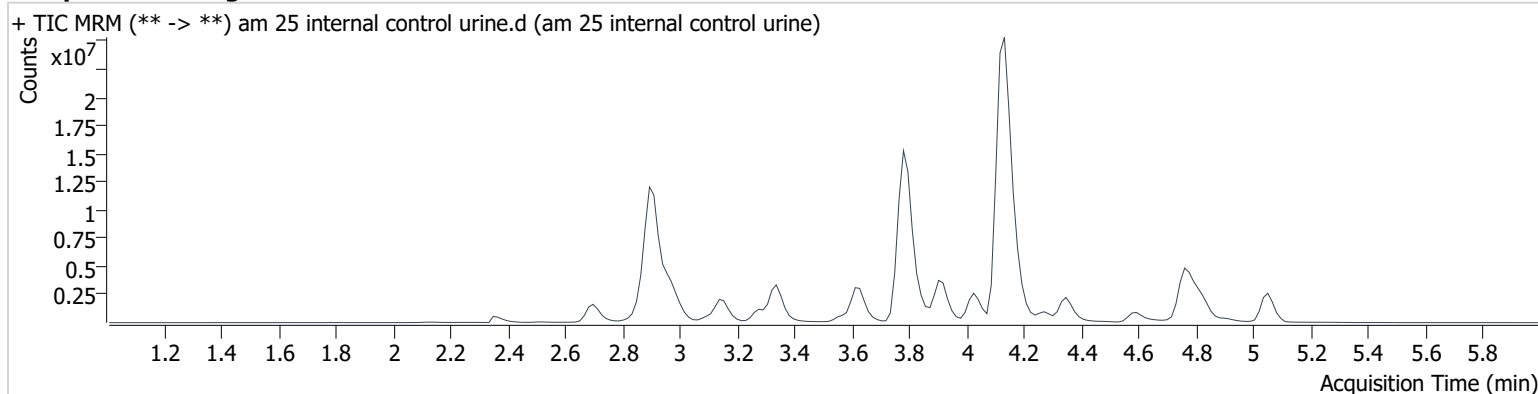
Wylie

# AM #25 Multi-Drug Screen. Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 internal control urine.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 internal control urine
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-C1	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/3/2024 3:04:36 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.767	7251961	2973.4	2157.2	3536160	98.725
Amphetamine	2.906	10460465	2550.7	2523.6	2732640	128.576
Codeine	2.697	1728725	23767.0	1809.3	2835993	159.543
Diphenhydramine	4.142	42507504	12173.8	2136.0	29874998	107.022
Zolpidem	3.783	29171053	46814.7	3201.6	10986963	125.135

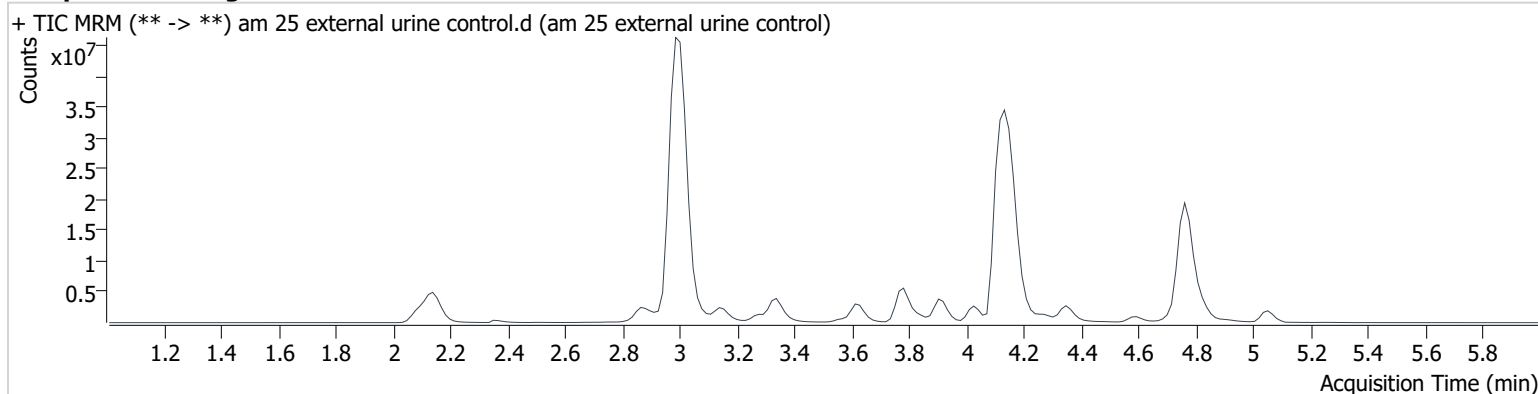
BWylie

# AM #25 Multi-Drug Screen. Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\MDS 4324r.batch.bin  
**Calibration Last Update** 4/6/2024 8:09:11 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 external urine control.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 external urine control
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-A2	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/3/2024 4:59:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.767	36773760	3139.3	5157.8	3802302	465.579
Diphenhydramine	4.142	86166955	1426.1	6450.6	20887068	310.299
Hydromorphone	2.141 <b>Low</b>	4878011	3696.3	86431.4	107187	162.226
Methamphetamine	2.996	40960273	∞	∞	8325775	409.146
Morphine	2.140	8724307	∞	15386.8	107187	687.936

# AM# 26: Screening of THC and Metabolites in Blood and Urine by LC-MS/MS

BWylie

Extraction Date: 4/3/24

Plate lot#: 231212

Mobile phase A: 10mM Amm Form in LCMS water

Blank Blood Lot: 24C52042 (Btl 3)

LCMS-QQQ ID: 69679

Analyst: Britany Wylie

Plate Retest Date: 6/12/2024

Mobile phase B: 0.1% Formic acid in MeOH

Blank Urine Lot: 1324

Column: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis: add 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
- 3. Using a calibrated pipette, pipette 1000µL blood or 1000µL hydrolyzed urine in wells of analytical (standards) plate. **Pipette ID: I41142J**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Add **500µL of 0.1% formic acid in water to blood samples,** and **500µL of saturated phosphate buffer to urine samples** in the wells of the analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate. Amount transferred: **800 µL**
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right)**
- 8. Wait 5 minutes.
- 9. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add **2.25mL Hexane. (Add in 3 increments of 750uL)**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.
- 2. Make any necessary integration changes, R<sup>2</sup> values ≥0.98 for each analyte
- 3. RT +/- 2% or 0.100 min, whichever is greater
- 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (analyst discretion between 5-10ng/mL) may be pursued.
- 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

	1	2	3	4	5	6
a	cal 1	Internal control urine	0603-1	0539-2		
b	cal 2	Negative Blood	0620-1	0539-3		
c	cal 3	0564-1	0626-1	0539-4		
d	cal 4	0585-1	0633-1	0646-1		
e	cal 5	0591-1	0647-1			
f	cal 6	0595-1	0648-1			
g	cal 7	0597-1	negative urine			
h	Internal control (blood)	0598-1	0539-1			

Plate position 3

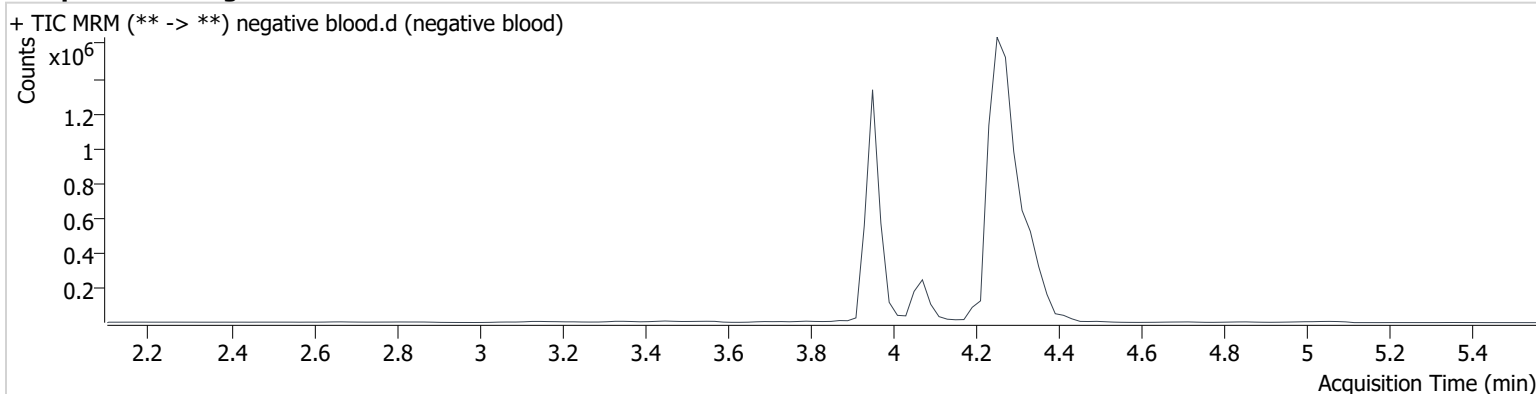
c2024-\_\_\_\_-\_\_

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P3-B2	<b>Comment</b>	<p>Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.</p>
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/3/2024 6:58:34 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



# AM #26 Cannabinoids Screen Results

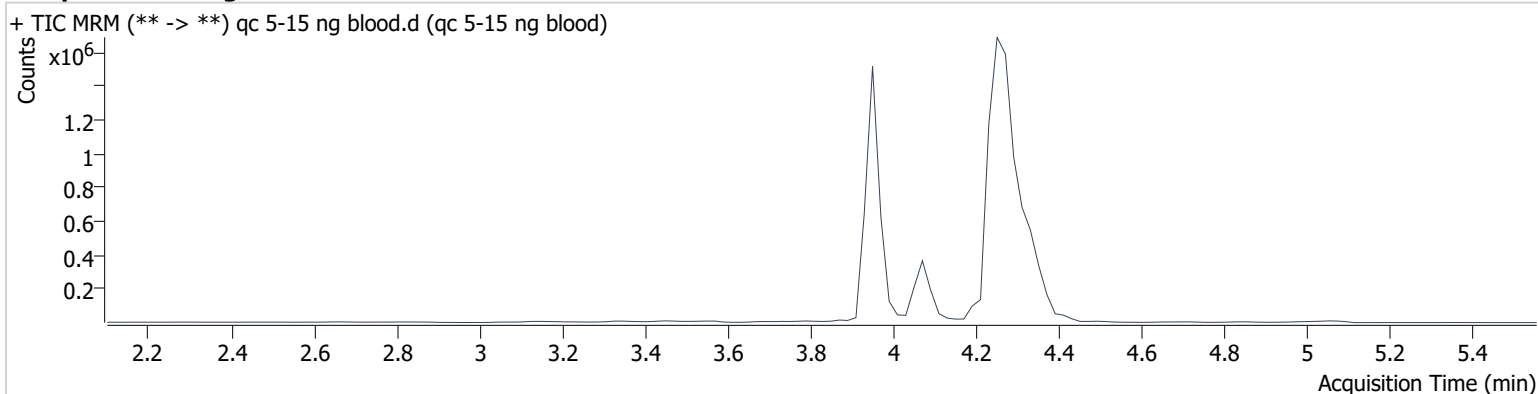
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-H1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:45:37 PM  
**Sample Info.**

**Data File** qc 5-15 ng blood.d  
**Sample** qc 5-15 ng blood  
**Operator** Britany Wylie

**Comment**  
 Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	22415	572856	4.86 ng/ml
THC-COOH	4.073	145741	589757	13.30 ng/ml
THC-OH	3.959	26445	3303599	5.20 ng/ml

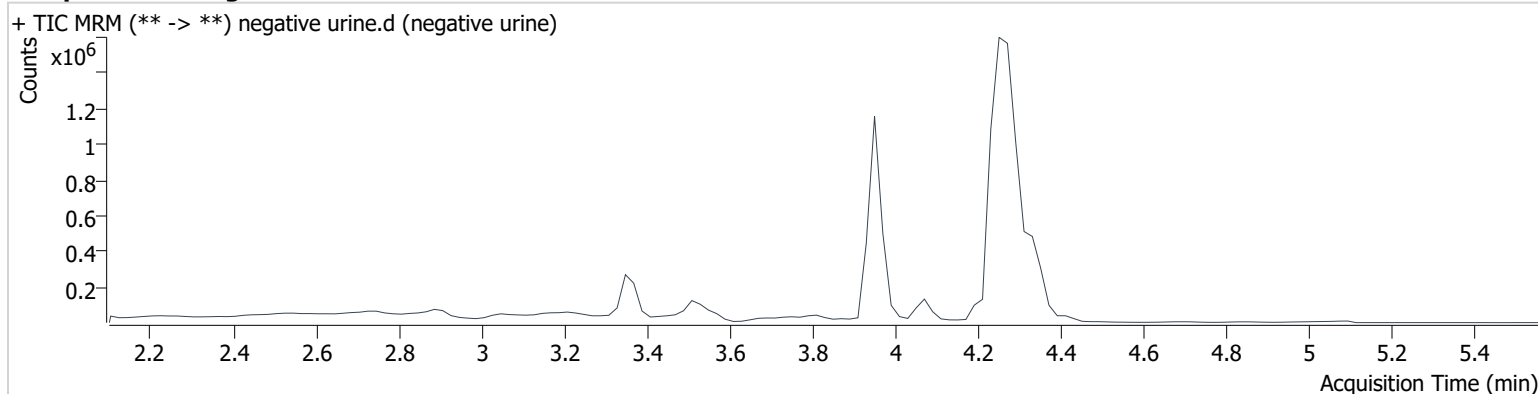


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P3-G3	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/3/2024 8:22:41 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



# AM #26 Cannabinoids Screen Results

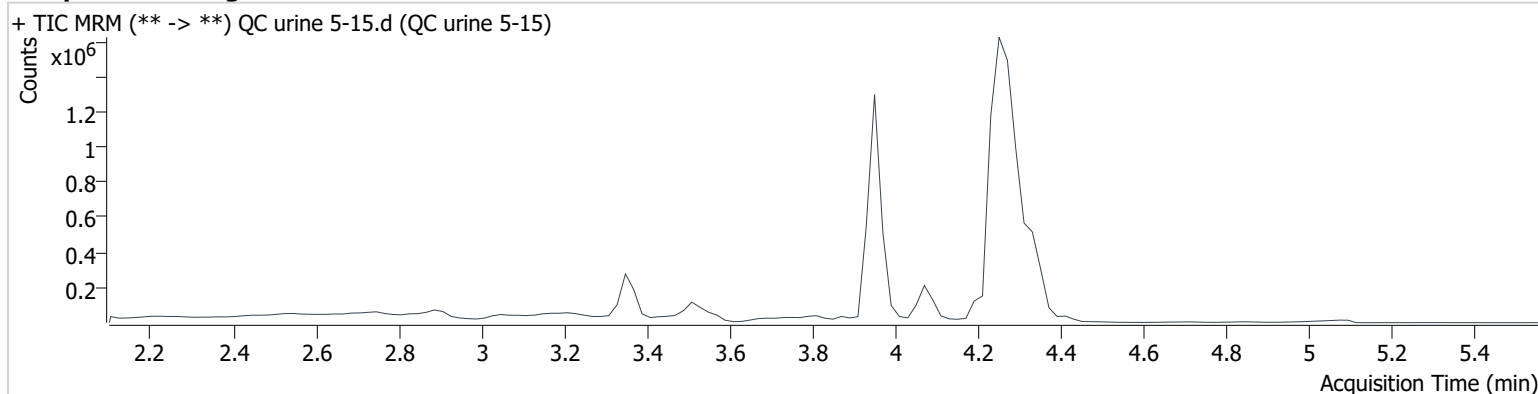
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-A2  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:52:06 PM  
**Sample Info.**

**Data File** QC urine 5-15.d  
**Sample** QC urine 5-15  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



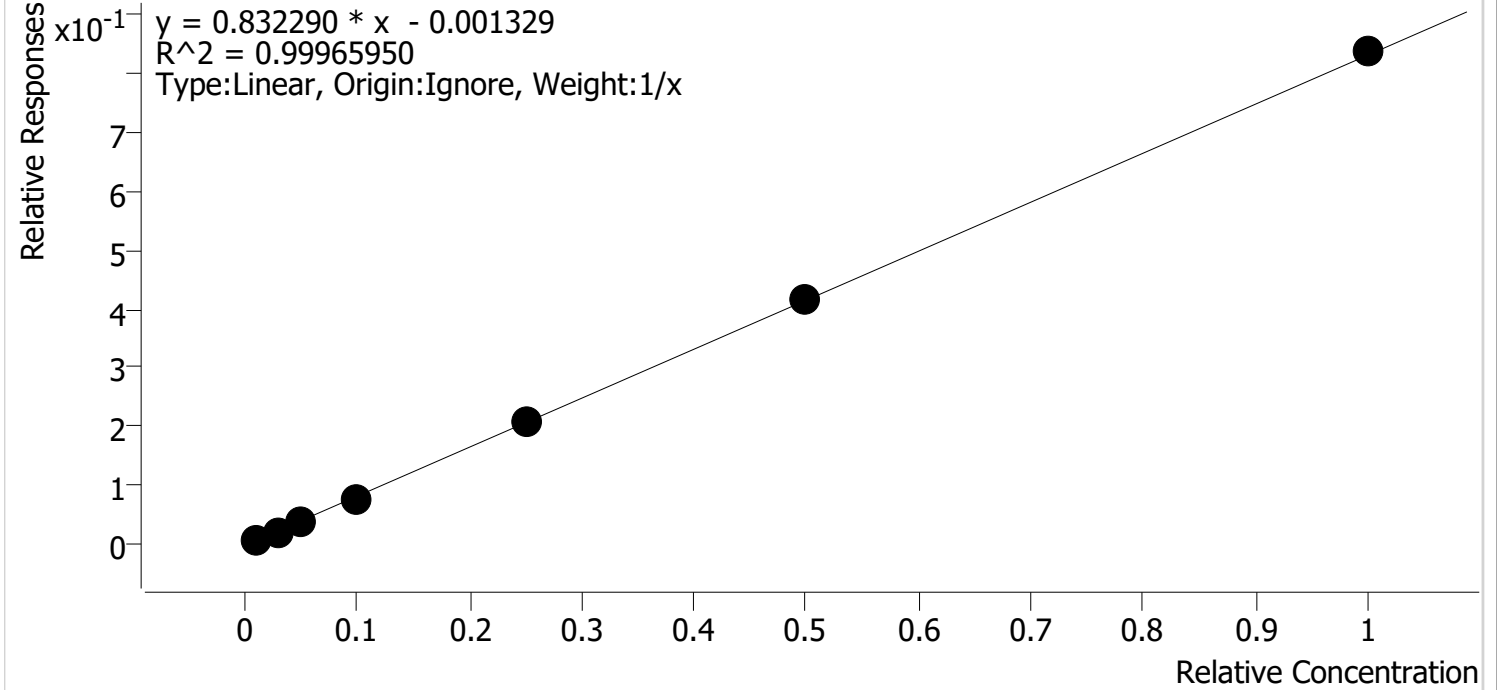
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	22731	530102	5.31 ng/ml
THC-COOH	4.093	109519	289750	22.63 ng/ml
THC-OH	3.959	20732	2718254	4.96 ng/ml

# Compound Calibration Report

*BWylee*

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Last Cal. Update** 4/4/2024 8:22 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



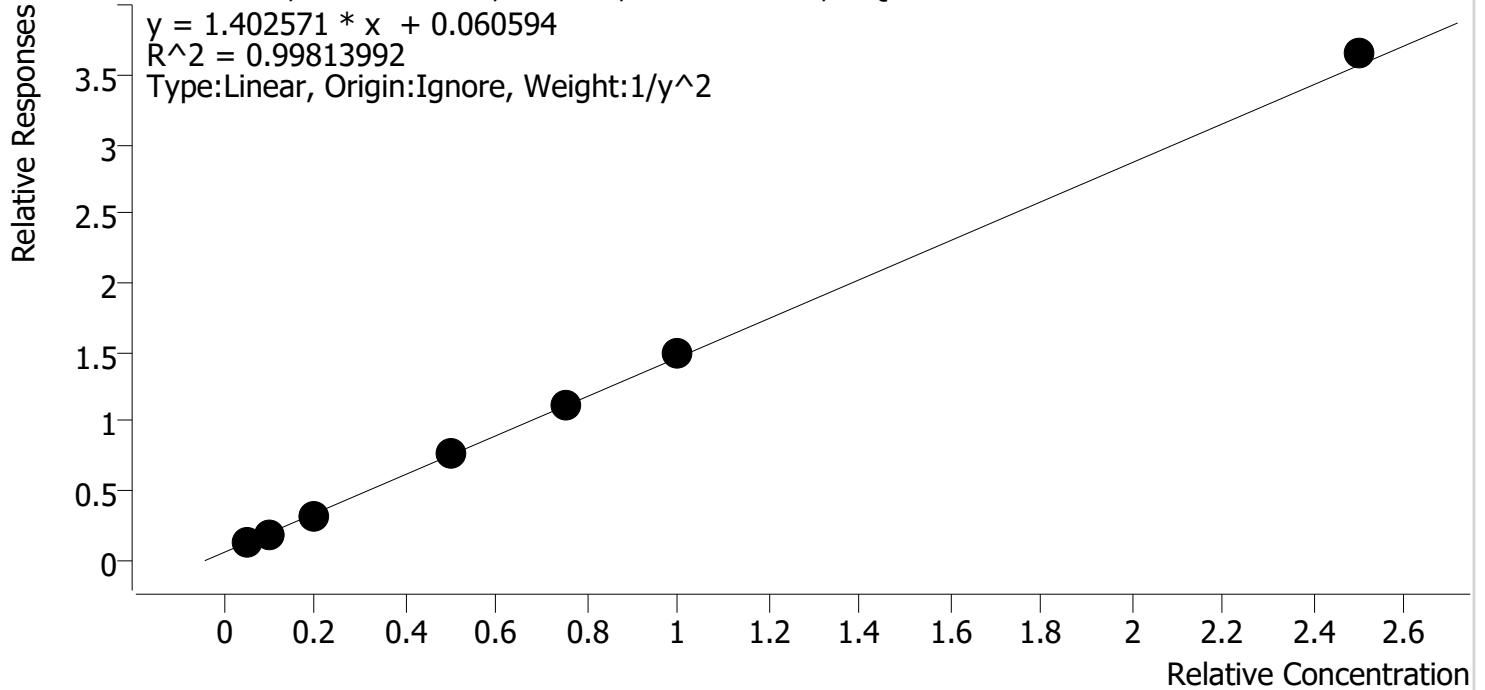
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	112.8
cal 2	2	✓	3.0	2.9	96.2
cal 3	3	✓	5.0	4.7	94.0
cal 4	4	✓	10.0	9.6	96.5
cal 5	5	✓	25.0	25.0	100.0
cal-6	6	✓	50.0	50.0	99.9
cal-7	7	✓	100.0	100.7	100.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Last Cal. Update** 4/4/2024 8:22 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



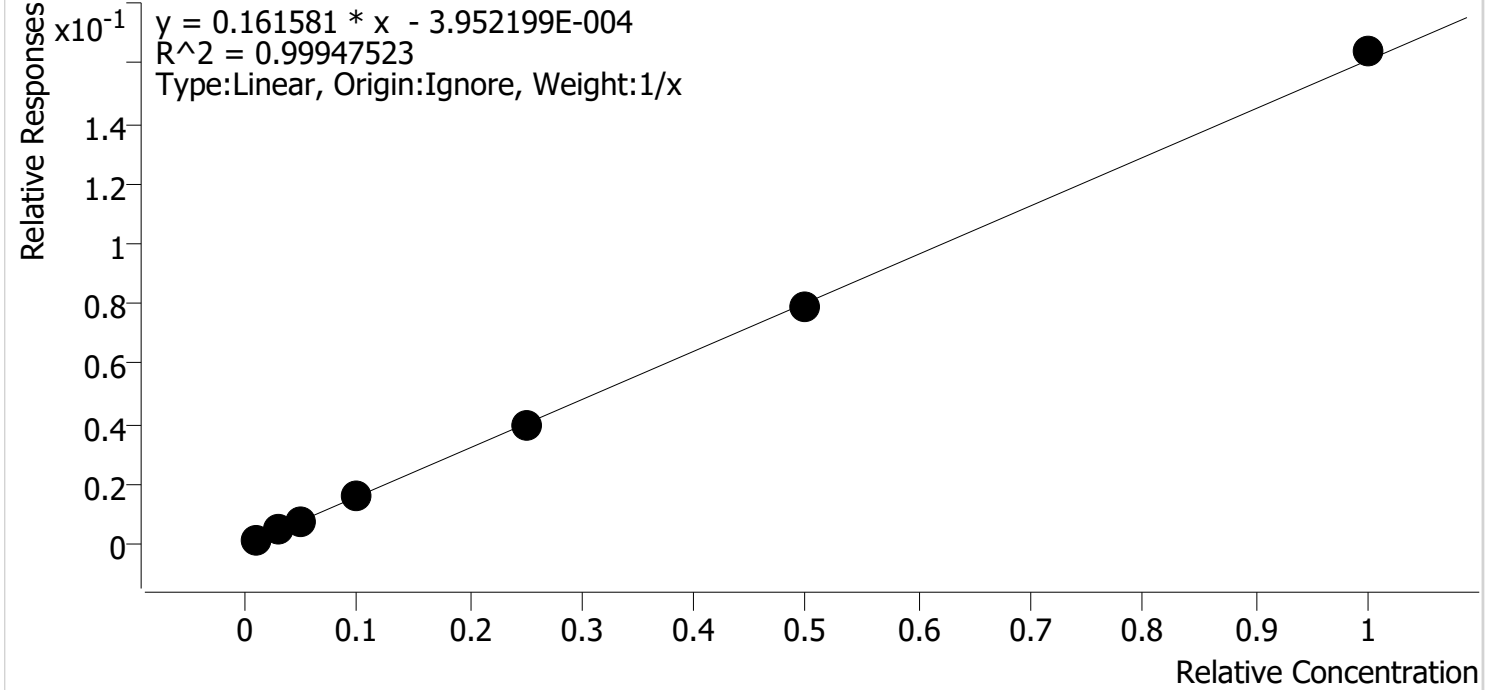
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.8
cal 2	2	✓	10.0	9.3	93.1
cal 3	3	✓	20.0	19.4	96.8
cal 4	4	✓	50.0	50.0	99.9
cal 5	5	✓	75.0	75.2	100.3
cal-6	6	✓	100.0	101.5	101.5
cal-7	7	✓	250.0	256.0	102.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Last Cal. Update** 4/4/2024 8:22 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-d3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



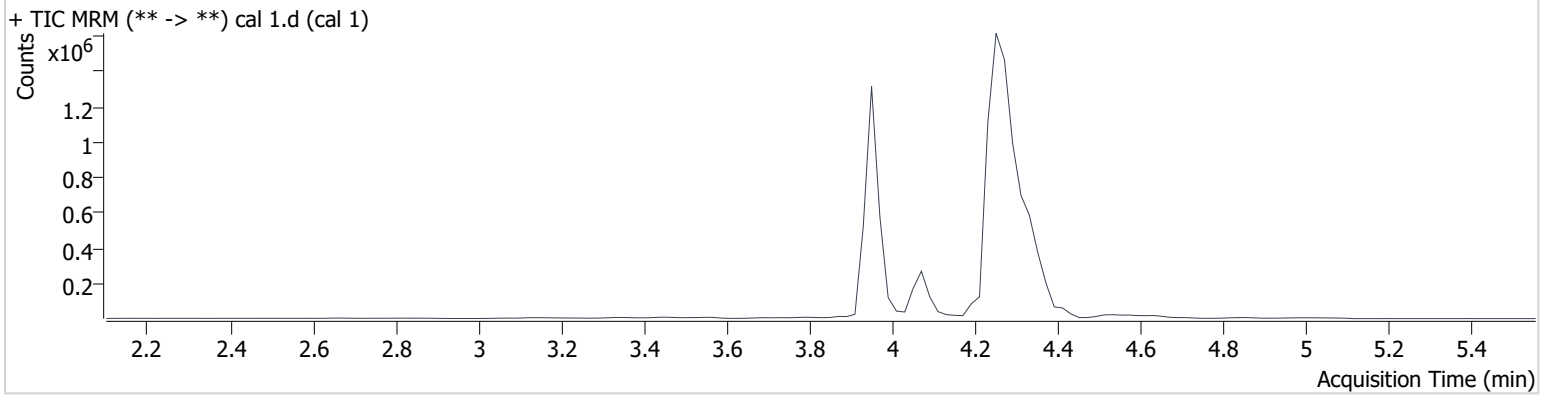
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	110.9
cal 2	2	✓	3.0	2.9	96.8
cal 3	3	✓	5.0	4.8	95.2
cal 4	4	✓	10.0	9.9	99.0
cal 5	5	✓	25.0	24.6	98.3
cal-6	6	✓	50.0	49.0	97.9
cal-7	7	✓	100.0	101.8	101.8

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P3-A1	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/3/2024 6:00:07 PM		
<b>Sample Info.</b>			

### Sample Chromatogram



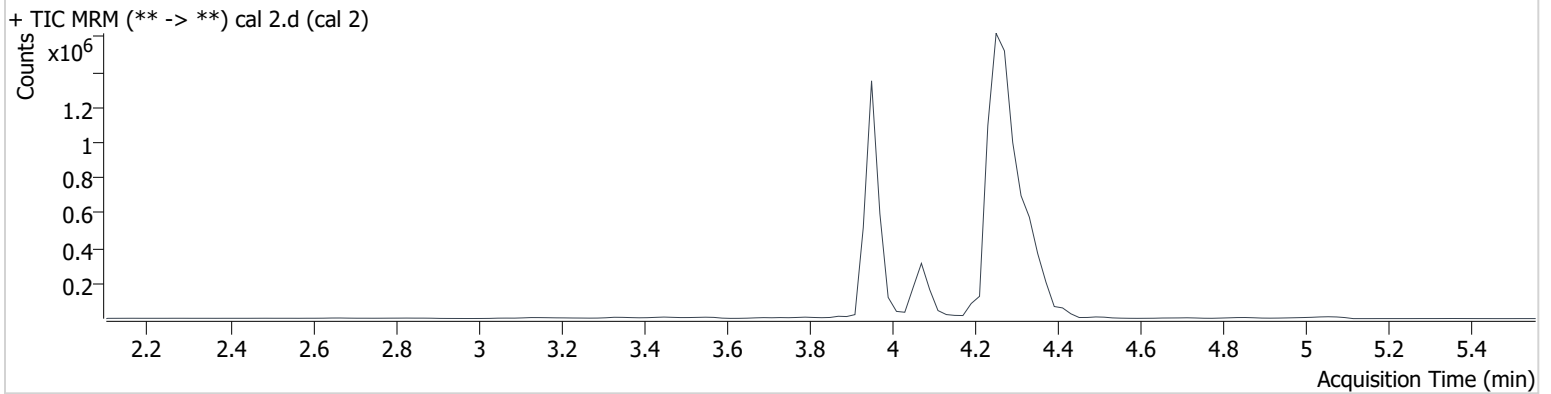
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	5221	647735	1.13 ng/ml <b>Low</b>
THC-COOH	4.093	74452	543960	5.44 ng/ml <b>Low</b>
THC-OH	3.959	4255	3046141	1.11 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P3-B1	<b>Comment</b>	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/3/2024 6:06:45 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	14213	626332	2.89 ng/ml <b>Low</b>
THC-COOH	4.093	107546	562491	9.31 ng/ml <b>Low</b>
THC-OH	3.959	12949	3013755	2.90 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

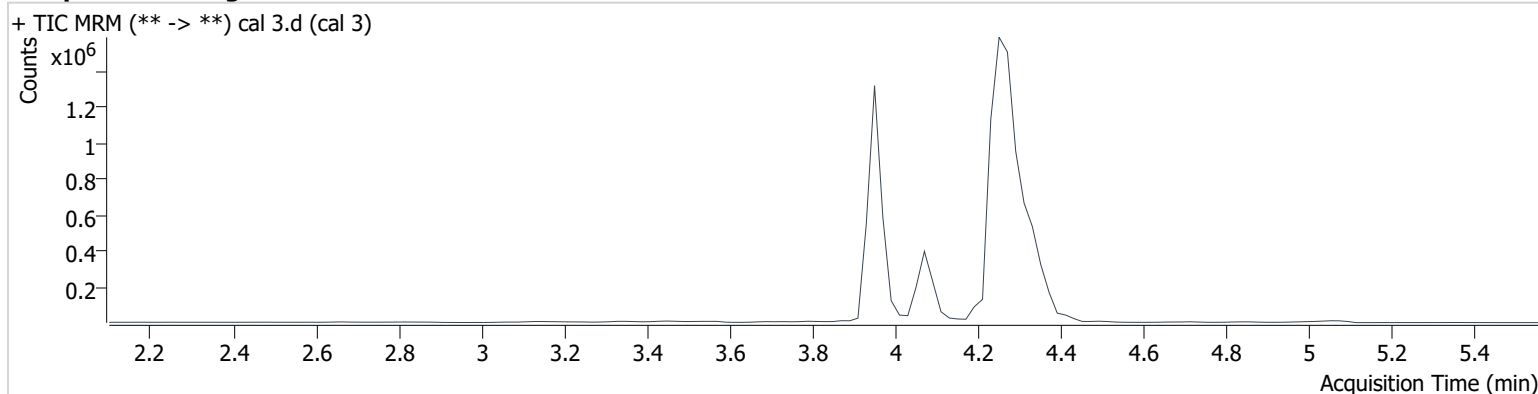
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-C1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:13:13 PM  
**Sample Info.**

**Data File** cal 3.d  
**Sample** cal 3  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	22580	597776	4.70 ng/ml
THC-COOH	4.073	191729	577181	19.36 ng/ml
THC-OH	3.959	21332	2922195	4.76 ng/ml



# AM #26 Cannabinoids Screen Results

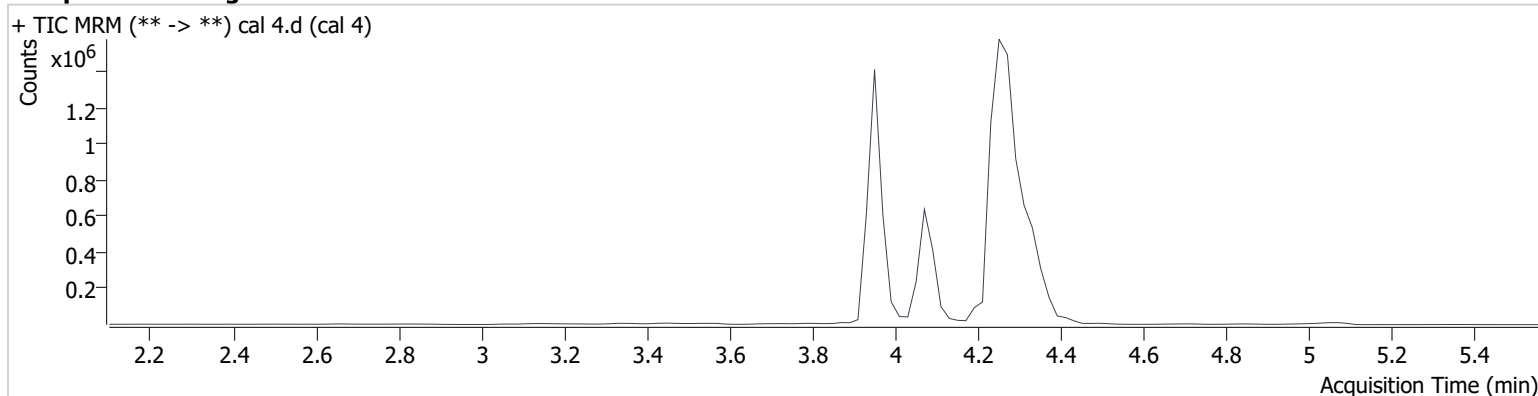
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-D1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:19:42 PM  
**Sample Info.**

**Data File** cal 4.d  
**Sample** cal 4  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	48560	615077	9.65 ng/ml
THC-COOH	4.073	430559	565506	49.96 ng/ml
THC-OH	3.959	45593	2922509	9.90 ng/ml

# AM #26 Cannabinoids Screen Results

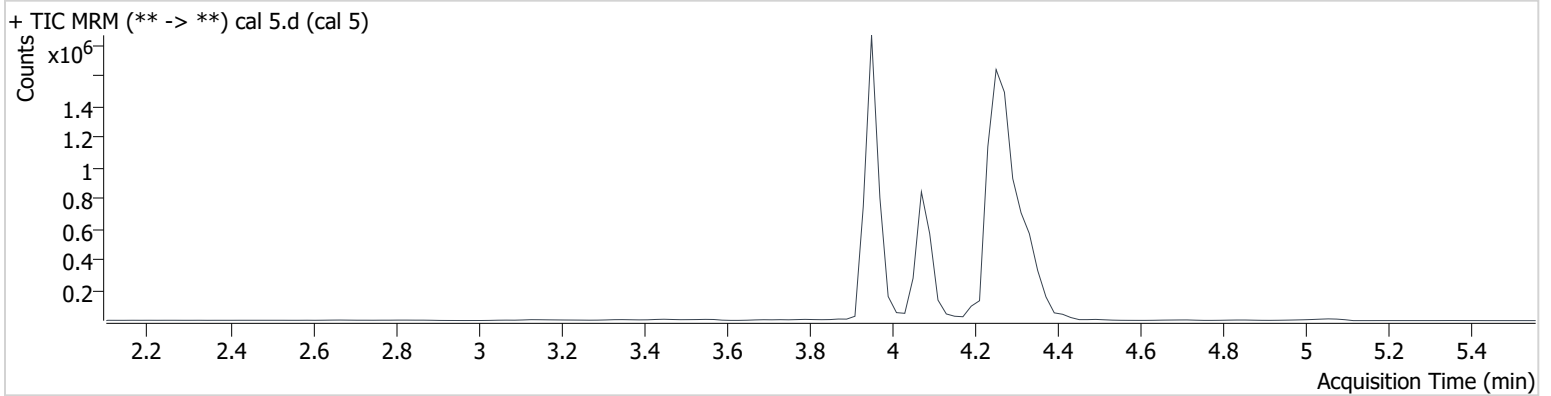
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-E1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:26:10 PM  
**Sample Info.**

**Data File** cal 5.d  
**Sample** cal 5  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	126470	611987	24.99 ng/ml
THC-COOH	4.073	634551	568990	75.19 ng/ml
THC-OH	3.959	124755	3172045	24.59 ng/ml

# AM #26 Cannabinoids Screen Results

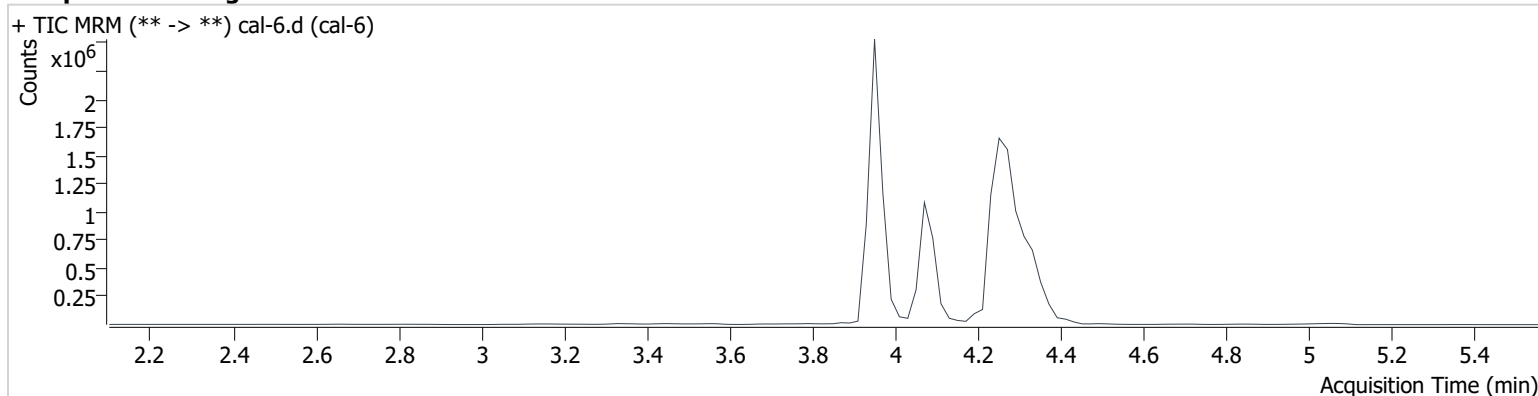
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-F1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:32:38 PM  
**Sample Info.**

**Data File** cal-6.d  
**Sample** cal-6  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	247496	597080	49.96 ng/ml
THC-COOH	4.073	871903	587675	101.46 ng/ml
THC-OH	3.959	262844	3338525	48.97 ng/ml

# AM #26 Cannabinoids Screen Results

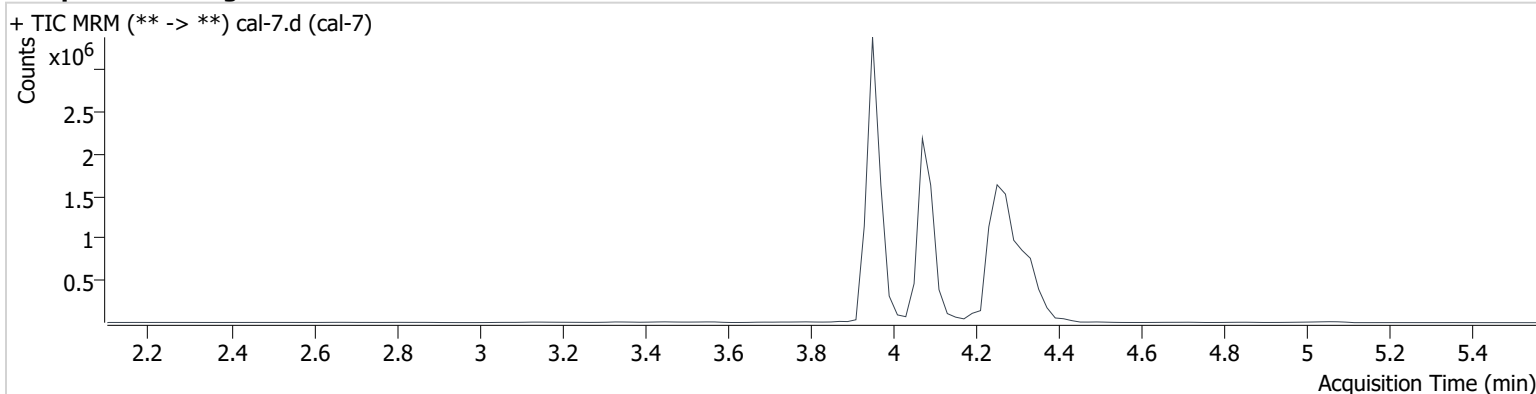
**Batch results** D:\MassHunter\Data\2024\am 25-26\040324r\QuantResults\cann scr 4324.batch.bin  
**Calibration Last Update** 4/4/2024 8:22:24 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** am 26 cann scr 5-5-20.m  
**Sample Position** P3-G1  
**Injection Volume** 5  
**Acq. Date-Time** 4/3/2024 6:39:07 PM  
**Sample Info.**

**Data File** cal-7.d  
**Sample** cal-7  
**Operator** Britany Wylie  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.345	482253	576374	100.69 ng/ml
THC-COOH	4.073	2003565	548821	255.96 ng/ml
THC-OH	3.959	510686	3113061	101.77 ng/ml