





















WAB

12/9/2024

Worklist: 6989



REVIEWED

By Brittany Wylie at 9:16 am, Dec 13, 2024

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-2212	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2239	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2240	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2242	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2258	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2261	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2262	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2266	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2269	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2292	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2294	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2297	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2306	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2312	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2313	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2322	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2328	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2341	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2344	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2356	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-2357	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6989

NAB

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-2358	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2024-5047	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

MB

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

Extraction Date: 12/09/2024

Plate lot#: 240524

Mobile phase A: 10mM Amm Form

Blank Blood Lot: 24C52043

LCMS-QQQ ID: 69679

Analyst: Mikel Buffaloe

Plate Retest Date: 11/24/2024

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Urine Lot: 1224

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. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.
Pipette ID: 390993 Urine samples add 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes
- ☒ 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 5. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.
Amount transferred: 250
- ☒ 6. 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).
- ☒ 7. Wait 5 minutes.
- ☒ 8. Add **900uL ethyl acetate**.
- ☒ 9. Wait 5 minutes.
- ☒ 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 11. Add **900uL ethyl acetate**.
- ☒ 12. Wait 5 minutes.
- ☒ 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 14. 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: 75401
- ☒ 15. 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:

External controls were run to retest plate

Morphine was not evaluated for urines in this run due to shift in retention time

Gabapentin was not evaluated in this run, due to poor response on the calibrator.

Run was restarted to change acquisition windows.

Supervised casework by AMN

MB

	1	2	3	4	5	6	7	8	9	10	11	12
A		External blood ctrl	neg blood	2266-1	2322-1							
B	cal 1	External urine ctrl	2212-4	2269-1	2328-2							
C			2239-1	2292-1	2341-1							
D	internal urine control		2240-1	2294-1	2344-1							
E	M2024- 5047-1		2242-1	2297-2	2356-1							
F			2258-1	2306-2	2357-1							
G			2261-1	2312-1	2358-1							
H			2262-1	2313-1	neg urine							

C2024-____-__

plate position 2



Idaho State Police
Forensic Services

Web

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

Methanol External Control Working Solution (Lot: WS12924)

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

Approximate concentration 10000ng/ml of each compound

Component	Source	Source Lot Number	Expiration Date
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:	12/09/24		
Expires:	03/1/2025		
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

Negative urine source and lot number	Date prepared	Expiration	Lot number	Prepared by	Out of use
In house 1224	12/09/24	3/1/25	U12924	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

Negative blood source and lot number	Date prepared	Expiration	Lot number	Prepared by	Out of use
Lampire 24c52044	12/9/24	3/1/25	B12924	Anne Nord	

MB

AM #25 Multi-Drug Screen. Results

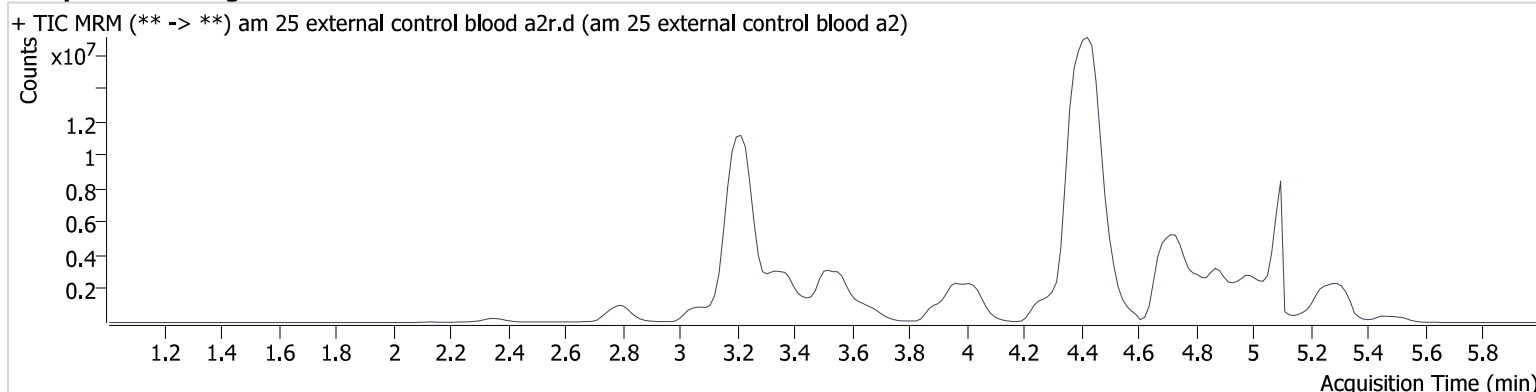
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Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Sample
Acq. Method mds 4324.m
Sample Position P2-A2
Injection Volume 2.5
Acq. Date-Time 12/9/2024 1:49:08 PM
Sample Info.

Data File am 25 external control blood a2r.d
Sample am 25 external control blood a2
Operator Mikel Buffaloe

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.
Alprazolam	4.842	6038907	703.2	1877.2	890061	72.569
Diphenhydramine	4.417	53158129	29288.8	23360.2	40701363	93.712
Methamphetamine	3.224	10009939	21296.3	12875268 00175710 .0	13099701	49.519
Morphine	2.789	1918062	20361.5	584.8	169117	82.582

MB

AM #25 Multi-Drug Screen. Results

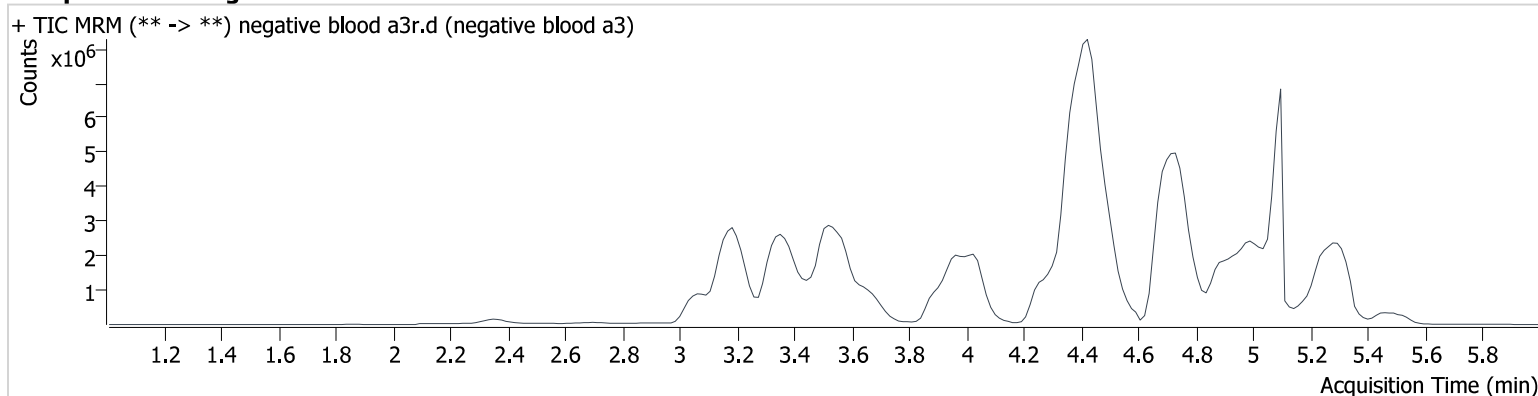
Batch results D:\MassHunter\Data\2024\am 25-26\120924\QuantResults\am25.batch.bin
Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Sample
Acq. Method mds 4324.m
Sample Position P2-A3
Injection Volume 2.5
Acq. Date-Time 12/9/2024 1:55:52 PM
Sample Info.

Data File negative blood a3r.d
Sample negative blood a3
Operator Mikel Buffaloe
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



MB

AM #25 Multi-Drug Screen. Results

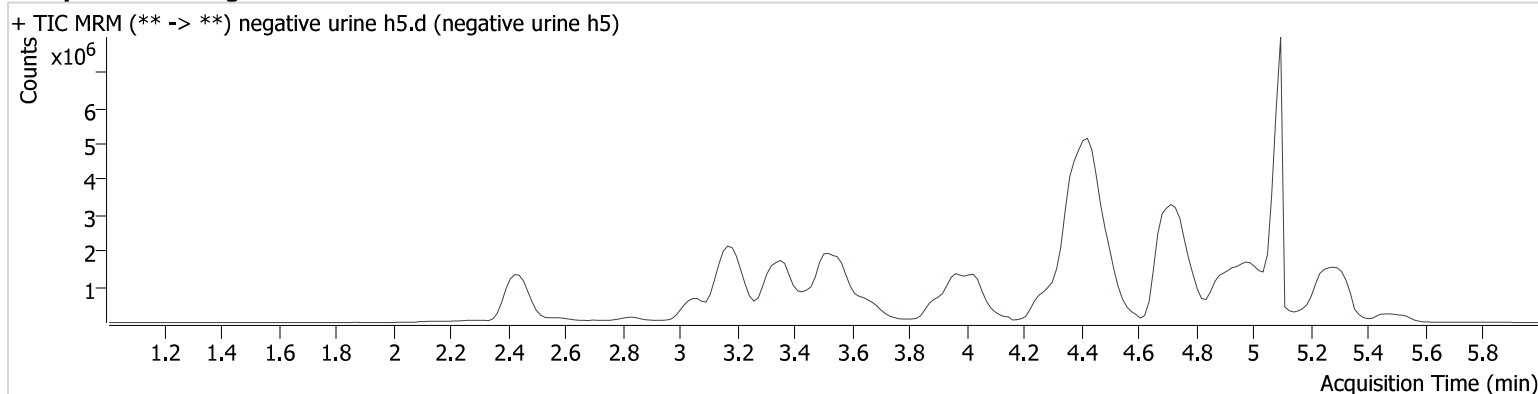
Batch results D:\MassHunter\Data\2024\am 25-26\120924\QuantResults\am25.batch.bin
Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Sample
Acq. Method mds 4324.m
Sample Position P2-H5
Injection Volume 2.5
Acq. Date-Time 12/9/2024 4:30:46 PM
Sample Info.

Data File negative urine h5.d
Sample negative urine h5
Operator Mikel Buffaloe
Comment

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Sample Chromatogram



MB

AM #25 Multi-Drug Screen. Results

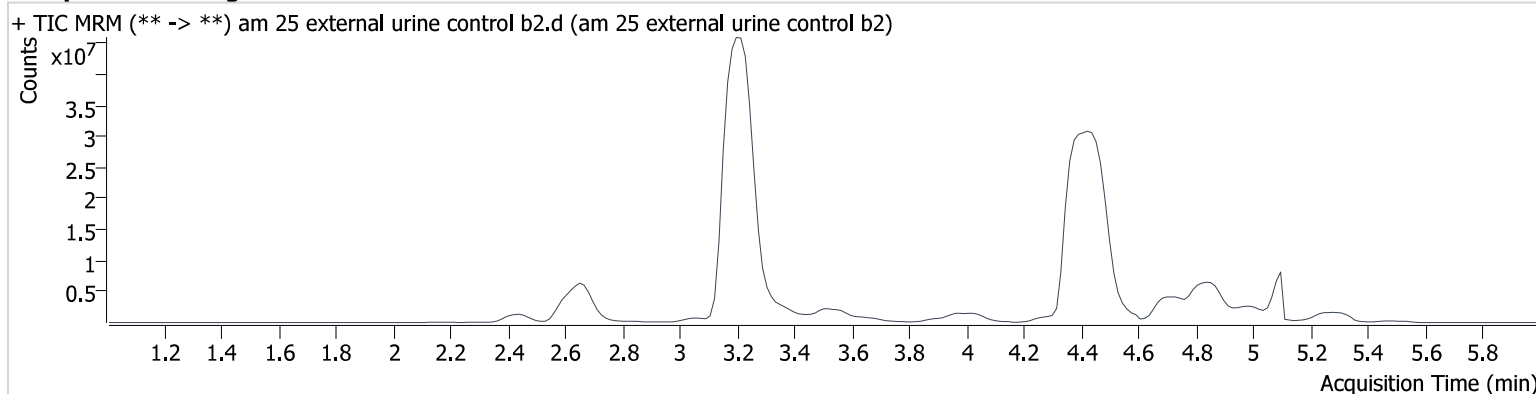
Batch results D:\MassHunter\Data\2024\am 25-26\120924\QuantResults\am25.batch.bin
Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Sample
Acq. Method mds 4324.m
Sample Position P2-B2
Injection Volume 2.5
Acq. Date-Time 12/9/2024 4:37:30 PM
Sample Info.

Data File am 25 external urine control b2.d
Sample am 25 external urine control b2
Operator Mikel Buffaloe
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.842	23115686	12509.0	∞	556076	444.613
Diphenhydramine	4.448	154232926	20914.5	34801.5	19634647	563.622
Methamphetamine	3.220	60488389	604771.3	∞	7243016	541.195
Morphine	2.652 Low	14615920	2351.3	2498.3	119311	891.978

MB

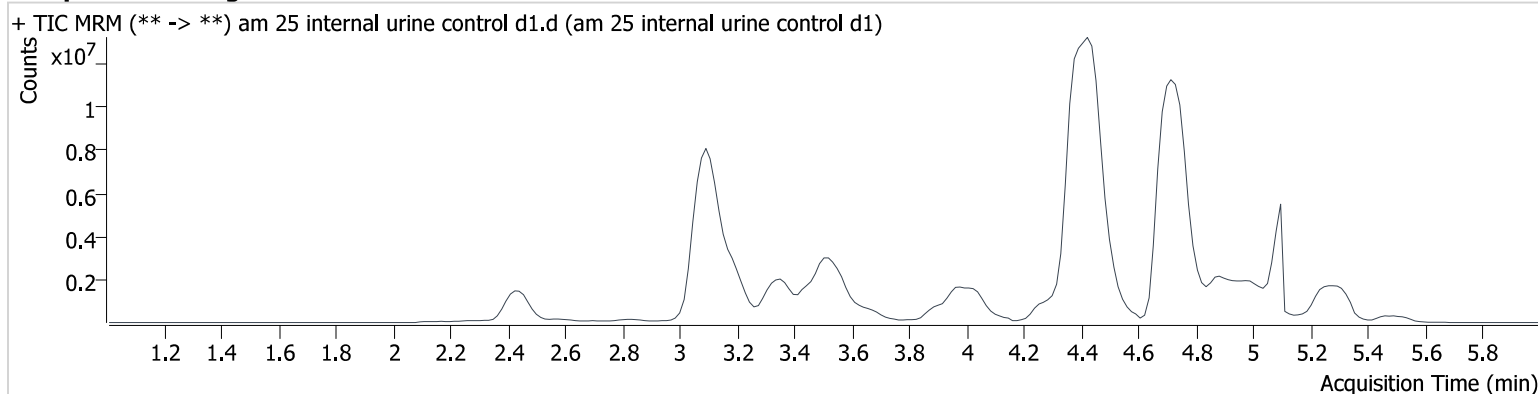
AM #25 Multi-Drug Screen. Results

Batch results D:\MassHunter\Data\2024\am 25-26\120924\QuantResults\am25.batch.bin
Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Sample
Acq. Method mds 4324.m
Sample Position P2-D1
Injection Volume 2.5
Acq. Date-Time 12/9/2024 4:44:14 PM
Sample Info.

Data File am 25 internal urine control d1.d
Sample am 25 internal urine control d1
Operator Mikel Buffaloe
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.
Alprazolam	4.827	2747191	133.8	466.4	569673	51.579
Amphetamine	3.103	12823057	9361.4	6859.8	3431800	99.197
Codeine	3.459	2194770	14070.5	993.9	2736934	109.953
Diphenhydramine	4.432	45791035	3772.8	2820.8	27058967	121.424
Zolpidem	4.720	39197159	134992.2	27670.9	15290775	123.944

MB

AM #25 Multi-Drug Screen. Results

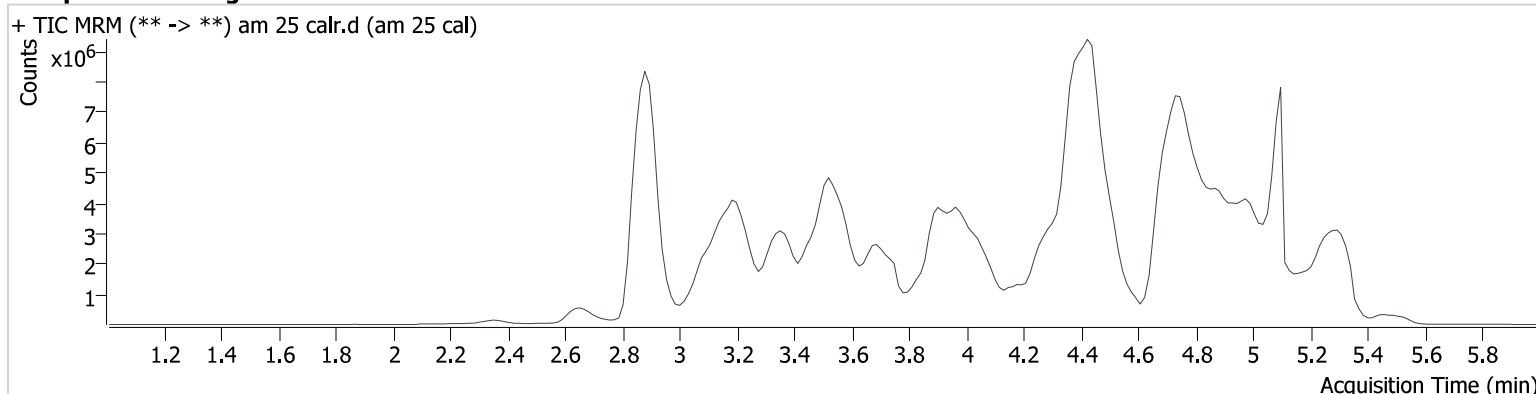
Batch results D:\MassHunter\Data\2024\am 25-26\120924\QuantResults\am25.batch.bin
Calibration Last Update 12/11/2024 12:21:47 PM

Instrument 69679
Type Cal
Acq. Method mds 4324.m
Sample Position P2-B1
Injection Volume 2.5
Acq. Date-Time 12/9/2024 1:42:14 PM
Sample Info.

Data File am 25 calr.d
Sample am 25 cal
Operator Mikel Buffaloe
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	3.909	790198	1034.6	16.6	659106	10.000
6-MAM	3.486	27478	3636.9	6263.4	935005	10.000
7-aminoclonazepam	3.675	409210	118430.9	2224.2	1828890	10.000
7-aminoflunitrazepam	3.905	829868	371789.0	442.6	1828890	10.000
9-Hydroxyrisperidone	4.497	3451910	91.8	18431.5	1828890	10.000
Acetyl Fentanyl	4.563	200406	85.2	22236.0	4735705	10.000
Acetyl Norfentanyl	3.068	58451	323.5	3079.0	13820310	10.000
a-hydroxyalprazolam	4.778	34450	64.1	9313.7	659106	10.000
alpha-hydroxymidazolam	4.808	416288	∞	451.6	3552760	10.000
alpha-PHP	4.295	1763935	1181.5	592.9	4299552	10.000
alpha-PVP	4.065	2231802	741.1	420.7	4299552	10.000
Alprazolam	4.842	616233	165.5	308.0	659106	10.000
Amitriptyline	4.968	1253890	78.3	283.5	5215337	10.000
Amphetamine	3.118	1619544	2047.6	1674.8	4299552	10.000
Benzoylecgonine	3.490	24443	926.1	∞	76867	10.000
Bromazolam	4.929	394853	47539.6	3455.8	3552760	10.000
Brompheniramine	4.472	65974	262.3	∞	34218838	10.000
Buprenorphine	5.520	32969	157.1	1203.1	1873915	10.000
Bupropion	4.326	2123197	604.0	194.4	8314746	10.000
Carbamazepine	4.419	3146098	2898.6	308.9	3385160	10.000
Carisoprodol	4.355	449928	719.9	38.3	2530453	10.000
Chlordiazepoxide	5.012	139968	4677.3	∞	3552760	10.000
Chlorpheniramine	4.353	3525457	∞	33.9	34218838	10.000
Chlorpromazine	5.329	935490	77.3	165.7	5305600	10.000
Citalopram	4.501	1604563	1640.8	434149.3	34218838	10.000
Clonipramine	5.283	1746131	292.8	173497.3	2832639	10.000
Clonazepam	4.688	138191	61.7	13206.3	659106	10.000
Clonazolam	4.576	173430	28851.9	19104.4	659106	10.000
clozapine	5.053	2526511	27419.4	410958.0	9448921	10.000
Cocaethylene	4.196	2350636	503583.5	75991.8	13357694	10.000
Cocaine	4.044	2879097	667314.5	304.6	13357694	10.000
Codeine	3.474	246887	2632.0	1707.6	3385160	10.000

WLB

AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Cyclobenzaprine	4.862	1821885	3428.9	52.2	5215337	10.000
Desipramine	4.832	3394017	413534.6	919.6	5215337	10.000
Dextromethorphan	4.508	1243101	163079.1	724.5	6516091	10.000
Dextrorphan	3.678	1353649	1579.8	12150.5	4299552	10.000
Diazepam	5.120	399419	108.4	100.8	3552760	10.000
Dihydrocodeine	3.151	635710	1983.2	443.2	3385160	10.000
Dimethyltryptamine	3.238	580721	271.8	2573.0	4299552	10.000
Diphenhydramine	4.448	4769043	2028.1	220.4	34218838	10.000
Doxepin	4.661	1304320	131.0	37.0	9448921	10.000
Doxylamine	3.953	4580188	2101.2	2750.9	4299552	10.000
Duloxetine	4.783	54428	52.4	173.4	2832639	10.000
EDDP	4.415	243756	169.6	56.7	1325105	10.000
Estazolam	4.752	1105773	92.1	244.5	3552760	10.000
Etizolam	4.823	56028	12564.5	141.1	3552760	10.000
Fentanyl	4.700	170751	122.9	21296.0	10887527	10.000
Flualprazolam	4.686	250889	324.8	1767.8	3552760	10.000
Flunitrazepam	4.826	482192	169.5	155.9	659106	10.000
Fluorofentanyl	4.806	170597	35174.6	250.7	10887527	10.000
Fluoxetine	4.704	1909495	4791.6	36971.1	2832639	10.000
Flurazepam	4.820	1582831	178740.3	67111.3	1873915	10.000
Hydrocodone	3.735	511141	∞	∞	3385160	10.000
Hydromorphone	2.987	509887	881761.3	443734.1	5633437	10.000
hydroxyzine	5.172	2225320	5626.8	272154.3	9448921	10.000
Imipramine	4.922	3577333	38399.8	∞	5215337	10.000
Ketamine	4.357	1674525	903.0	32.3	5633437	10.000
Lamotrigine	3.801	1372327	2742107.1	308369.7	4299552	10.000
Levamisole	3.621	826186	3028.2	92.4	13357694	10.000
Levetiracetam	2.644	421911	∞	443.9	1828890	10.000
Lorazepam	4.672	24690	∞	∞	659106	10.000
Maprotiline	4.907	925445	∞	∞	5215337	10.000
MDA	3.253	1484830	548.3	54.5	10894893	10.000
MDEA	3.498	2317281	218.7	635.2	10894893	10.000
MDMA	3.329	2241846	3411.2	323.9	10894893	10.000
Meperidine	4.048	1420273	508.8	81.2	935005	10.000
Meprobamate	3.774	141175	114.7	13.5	2530453	10.000
Methadone	4.796	3456275	427.4	646.0	4735705	10.000
Methamphetamine	3.224	1681209	1866277071653 61.0	∞	10894893	10.000
Methocarbamol	3.725	113872	136.8	887.1	3385160	10.000
Methylphenidate	3.896	4765257	3032.4	798.9	9669615	10.000
Metoprolol	3.708	341458	141.5	91688.0	4299552	10.000
Midazolam	5.008	275595	85966.5	44778.5	1828890	10.000
Mirtazapine	4.802	1632579	205248.1	834.7	1873915	10.000
Mitragynine	4.835	246702	19.8	105955.9	10887527	10.000
Morphine	2.789	188653	338.3	126.9	137364	10.000
Norbuprenorphine	4.190	51275	9131.5	14653.5	1873915	10.000
Nordiazepam	4.969	179117	39483.2	29661.1	3552760	10.000
Norfentanyl	3.573	2821225	3368.1	386.7	13820310	10.000
Norhydrocodone	3.200	57470	101.1	55.3	3385160	10.000
norketamine	4.311	232488	36.5	1988.9	5633437	10.000
Normeperidine	3.881	1546717	773.7	1350.5	935005	10.000
Noroxycodone	3.121	805056	∞	340888.1	3385160	10.000
Nortriptyline	4.878	1205082	220009.7	638.5	2832639	10.000
O-desmethyl-tramadol	3.126	3529035	7459.7	253.7	4735705	10.000
O-Desmethylvenlafaxine	3.493	1022435	∞	∞	4735705	10.000
Olanzapine	4.442	702289	92644.8	120.4	2832639	10.000
Oxazepam	4.784	98981	50.4	∞	659106	10.000
Oxycodone	3.411	1266921	631.1	1658.6	5633437	10.000
Oxymorphone	2.664	811803	75.4	22266.4	5633437	10.000
Paroxetine	4.747	256212	6378.6	27414.2	2832639	10.000

AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Phenazepam	4.899	274801	60836.9	55691.7	3552760	10.000
Phencyclidine	4.264	2605774	1125.1	310.2	4735705	10.000
Phentermine	3.392	750201	∞	20.1	9669615	10.000
Phenytoin	4.294	88625	∞	45282.6	53496	10.000
primidone	3.559	1727027	449.7	156.4	13820310	10.000
Promethazine	4.967	3851555	171836.5	96.9	5215337	10.000
Pseudoephedrine	2.887	41726832	∞	11630.6	9669615	10.000
Quetiapine	5.110	2525968	785425.2	3682.8	2832639	10.000
Risperidone	4.712	3125243	340099.5	46.3	34218838	10.000
Sertraline	5.057	579358	845038.4	∞	2832639	10.000
Sufentanil	5.171	156927	2472.8	∞	10887527	10.000
Tapentadol	3.727	2440960	471.0	1080.9	5633437	10.000
Temazepam	4.935	715705	162.3	13.5	3552760	10.000
Topiramate	3.978	112990	26484.1	10462.6	44041	10.000
Tramadol	3.739	6088302	∞	28.6	935005	10.000
Trazodone	5.325	2689645	503524.2	364949.3	10605942	10.000
Venlafaxine	4.152	3530624	4980.7	176.9	4735705	10.000
Xylazine	3.743	97705	61.7	2727.2	4735705	10.000
Zaleplon	4.566	550340	72455.2	177.7	659106	10.000
Zolpidem	4.736	3831110	400606.9	227477.8	18523656	10.000
Zopiclone	4.789	261005	110821.4	117.1	1483438	10.000

WEB

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

Extraction Date: 12/09/2024

Plate lot#: 240513

Mobile phase A: 10mM Amm Form in LCMS water

Blank Blood Lot: 24C52044

LCMS-QQQ ID: 69679

Analyst: Mikel Buffaloe

Plate Retest Date: 11/13/2024

Mobile phase B: 0.1% Formic acid in MeOH

Blank Urine Lot: 1224

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. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. **Pipette ID: K52558G**
- ☒ 3. **Urine hydrolysis add 100 ul BG turbo, and 200 ul BG turbo buffer to the urine samples in wells of the analytical plate.**
- ☒ 4. Add **500µL of 0.1% formic acid in water** 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: **750 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 75401 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, R² 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:

External controls were run to retest plate

Run aborted during worklist due to exceeding pressure. Needle seat was replaced and run was restarted (12/10/24) due to shift in retention times. Samples that were previously run were reconstituted. **Samples were then re-injected.**

Supervised casework by AMN

MeB

	1	2	3	4	5	6
a	cal 1	internal control urine	2261-1	2312-1	neg urine	
b	cal 2	negative blood	2262-1	2313-1	external urine control	
c	cal 3	external blood control	2266-1	2322-1	M2024-5047-1	
d	cal 4	2212-4	2269-1	2328-2		
e	cal 5	2239-1	2292-1	2344-1		
f	cal 6	2240-1	2294-1	2356-1		
g	cal 7	2242-1	2297-2	2357-1		
h	Internal control (blood)	2258-1	2306-2	2358-1		

Plate position 3

c2024-____-__



Idaho State Police
Forensic Services

Web

**AM #26 Screening of THC and Metabolites and AM #27
Confirmation of THC and Metabolites Control Prep Sheet**

Methanol External Control Solution (Lot: WS12624)

150 µL of 100 µg/mL C-THC and THC-OH, 7.5 ul 1mg/ml THC in ~9692.5 µL MeOH
Approximate concentration 1500ng/ml C-THC, THC-OH and 750 ng/ml THC

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
C-THC	Cerilliant	FN0525317	2/1/2029
THC-OH	Cerilliant	FE06152002	6/1/2025
THC	Cerilliant	FE04222001	5/1/2025
Prepared:	12/6/24		
Expires:	5/1/25		
Prepared By:	Anne Nord		

Urine External Control Solution

*400 ul of methanol external control solution to 9600 ul of urine.
Approximately 30 ng/ml THC, 60 ng/ml C-THC and THC-OH*

<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 1224	12/6/24	5/1/25	U12624	Anne Nord	

Blood External Control Solution

*100 ul of methanol external control solution to 9900 ul of blood.
Approximately 7.5 ng/ml THC, 15 ng/ml C-THC and THC-OH*

<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>
24C52044	12/6/24	5/1/25	12624b	Anne Nord	

Web

AM #26 Cannabinoids Screen Results

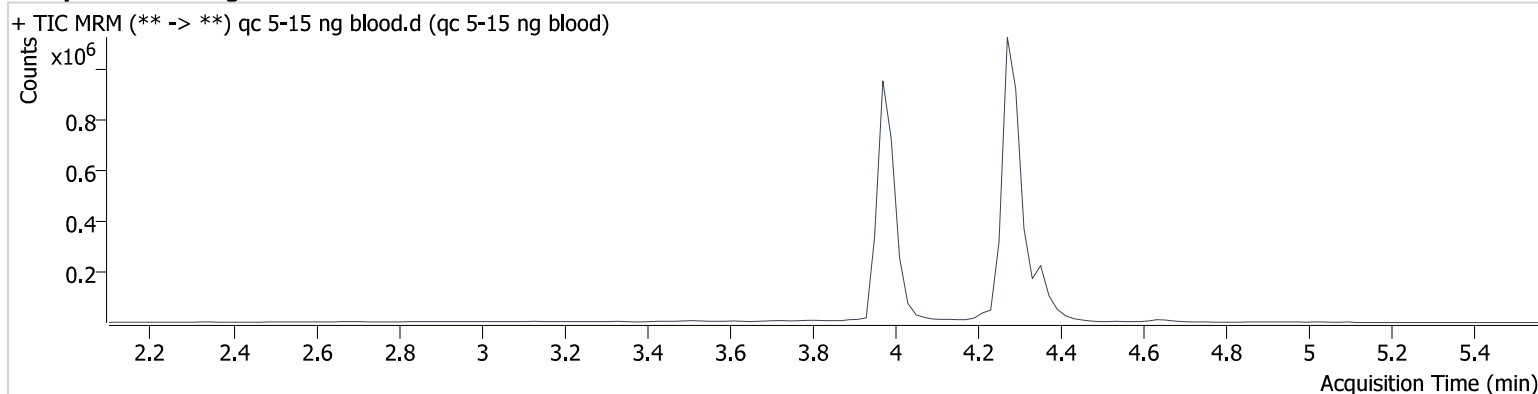
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type QC
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-H1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:41:26 AM
Sample Info.

Data File qc 5-15 ng blood.d
Sample qc 5-15 ng blood
Operator Mikel Buffaloe
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	4.365	14464	351426	4.84 ng/ml
THC-COOH	3.993	85216	381173	15.21 ng/ml
THC-OH	3.979	18579	2070182	5.01 ng/ml

AM #26 Cannabinoids Screen Results

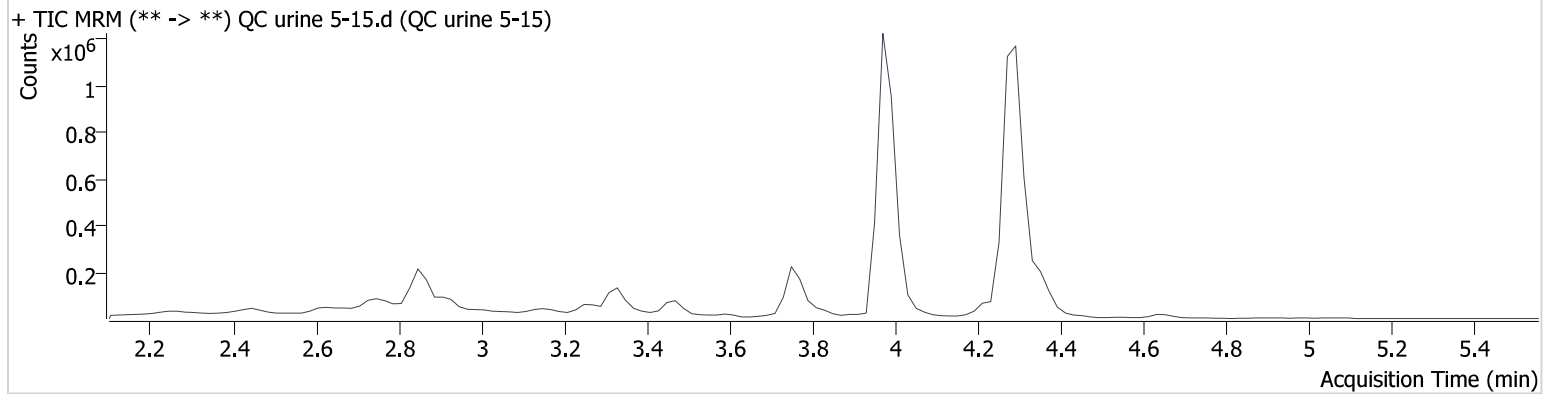
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type QC
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-A2
Injection Volume 5
Acq. Date-Time 12/10/2024 11:47:54 AM
Sample Info.

Data File QC urine 5-15.d
Sample QC urine 5-15
Operator Mikel Buffaloe
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	4.365	13330	310815	5.03 ng/ml
THC-COOH	3.993	125938	541796	15.79 ng/ml
THC-OH	3.979	22597	2609041	4.84 ng/ml

Web

AM #26 Cannabinoids Screen Results

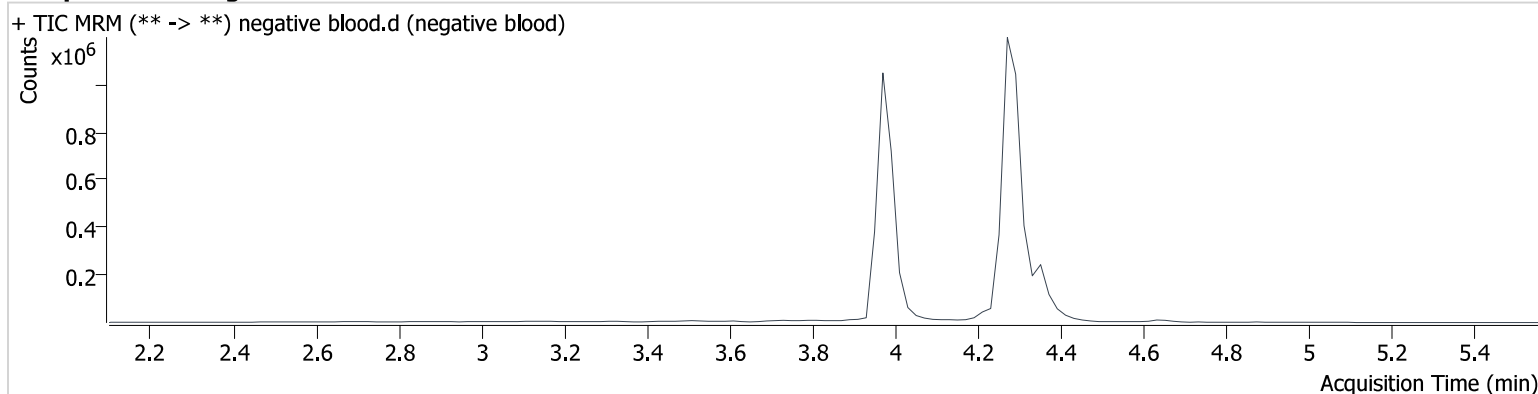
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Sample
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-B2
Injection Volume 5
Acq. Date-Time 12/10/2024 11:54:23 AM
Sample Info.

Data File negative blood.d
Sample negative blood
Operator Mikel Buffaloe
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



Web

AM #26 Cannabinoids Screen Results

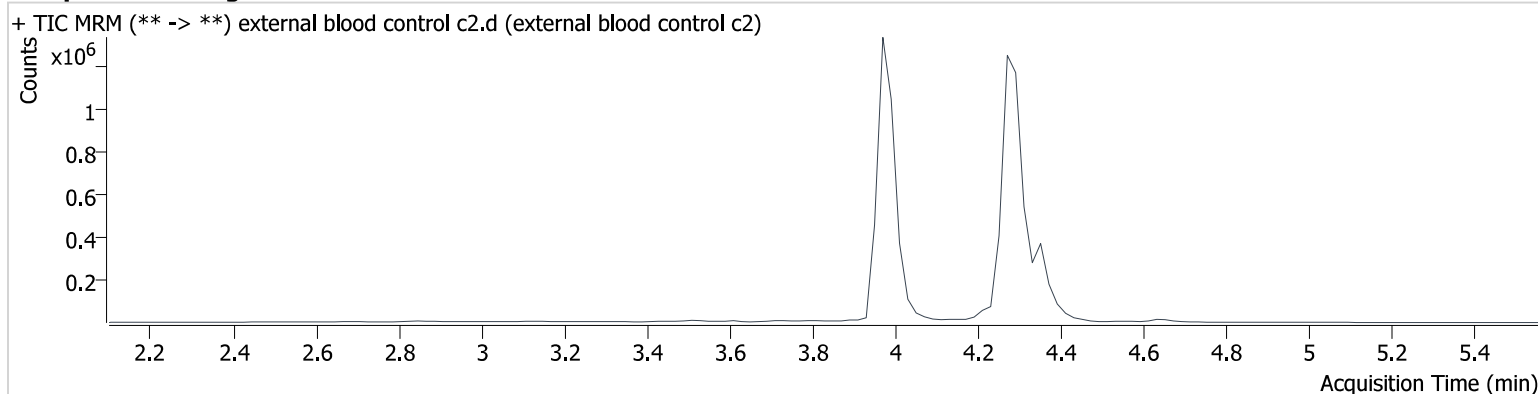
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Sample
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-C2
Injection Volume 5
Acq. Date-Time 12/10/2024 12:00:51 PM
Sample Info.

Data File external blood control c2.d
Sample external blood control c2
Operator Mikel Buffaloe
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	4.365	60515	545028	12.67 ng/ml
THC-COOH	3.993	107220	605596	12.15 ng/ml
THC-OH	3.979	58625	2601168	12.56 ng/ml

Web

AM #26 Cannabinoids Screen Results

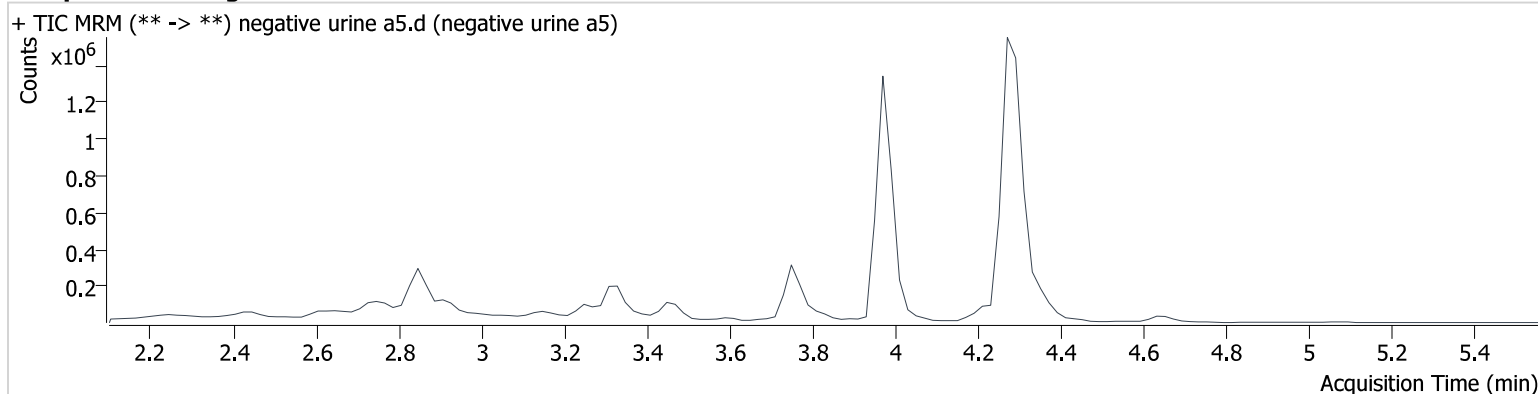
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Sample
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-A5
Injection Volume 5
Acq. Date-Time 12/10/2024 2:23:10 PM
Sample Info.

Data File negative urine a5.d
Sample negative urine a5
Operator Mikel Buffaloe
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-OH	4.039	4075	2980389	0.78 ng/ml Low

Web

AM #26 Cannabinoids Screen Results

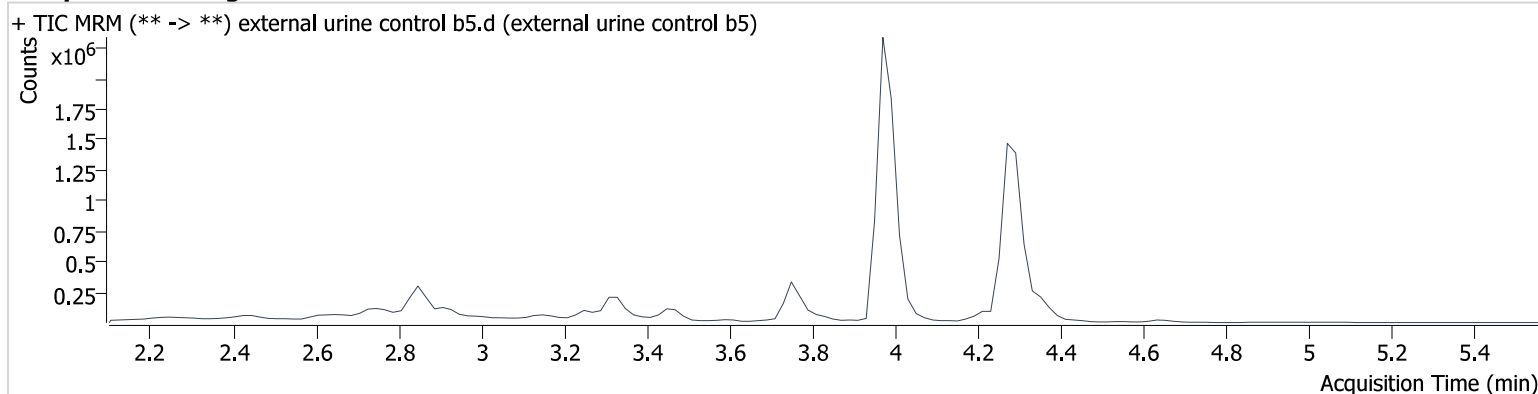
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Sample
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-B5
Injection Volume 5
Acq. Date-Time 12/10/2024 2:29:41 PM
Sample Info.

Data File external urine control b5.d
Sample external urine control b5
Operator Mikel Buffaloe
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	4.365	84954	214052	44.71 ng/ml
THC-COOH	3.993	449306	624470	47.76 ng/ml
THC-OH	3.979	255621	3070608	46.32 ng/ml

Web

AM #26 Cannabinoids Screen Results

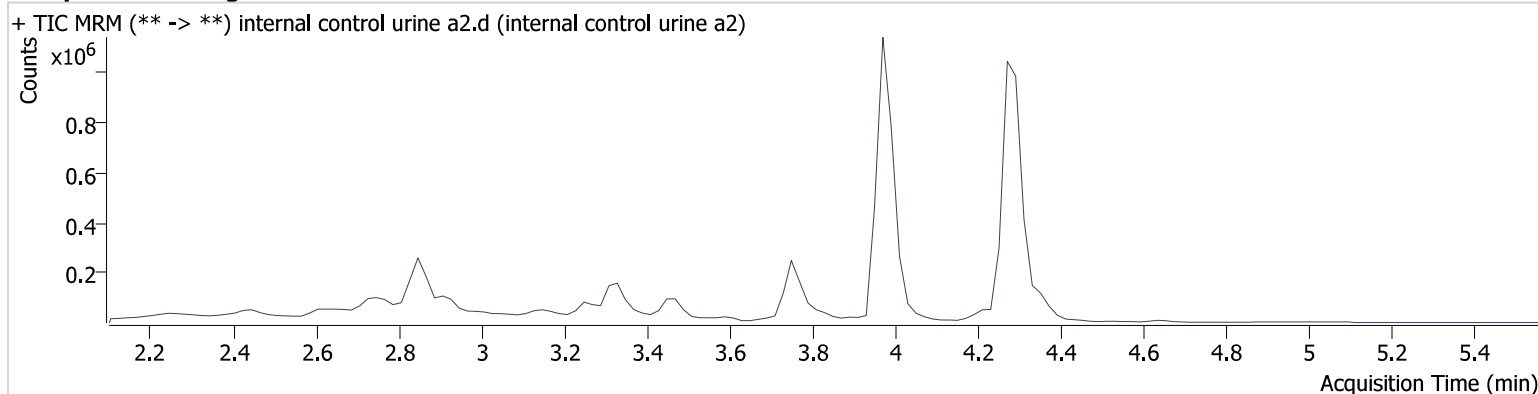
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type QC
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-A2
Injection Volume 5
Acq. Date-Time 12/10/2024 2:42:37 PM
Sample Info.

Data File internal control urine a2.d
Sample internal control urine a2
Operator Mikel Buffaloe
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



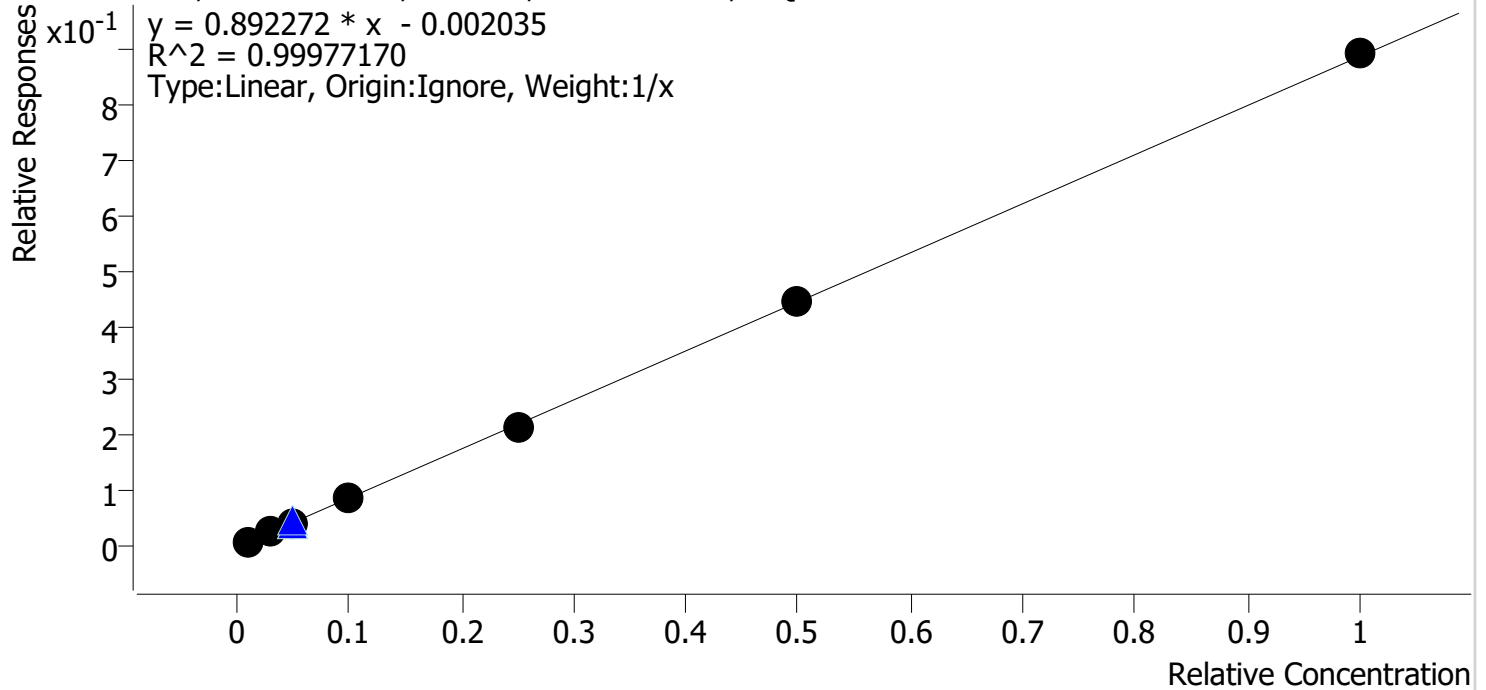
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.365	7820	169841	5.39 ng/ml
THC-COOH	3.993	110506	490789	15.31 ng/ml
THC-OH	3.979	21591	2298550	5.25 ng/ml

Compound Calibration Report

Web

Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Last Cal. Update 12/12/2024 12:09 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-d3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 3 QCs



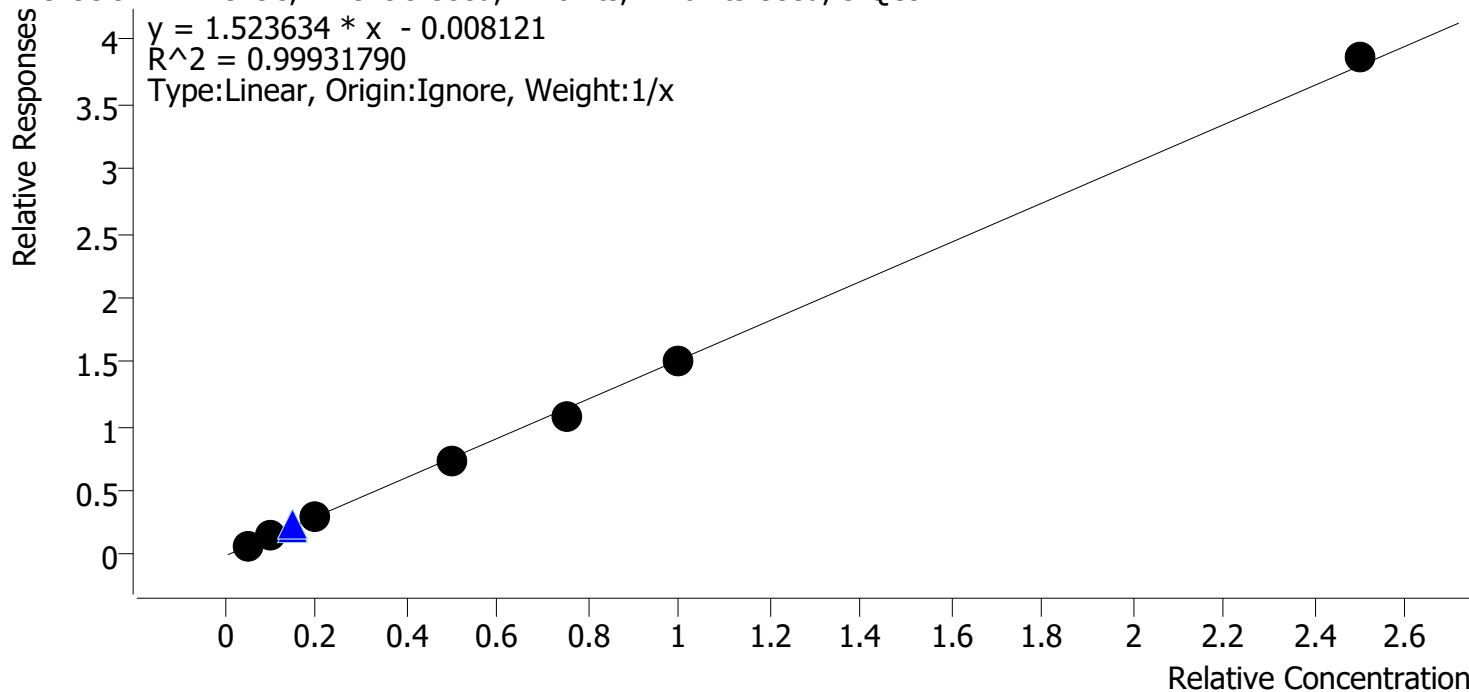
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	109.5
cal 2	2	✓	3.0	2.9	97.5
cal 3	3	✓	5.0	4.8	95.8
cal 4	4	✓	10.0	9.8	97.8
cal 5	5	✓	25.0	24.5	98.2
cal-6	6	✓	50.0	50.3	100.6
cal-7	7	✓	100.0	100.6	100.6

Compound Calibration Report

WAB

Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Last Cal. Update 12/12/2024 12:09 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-d9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 3 QCs



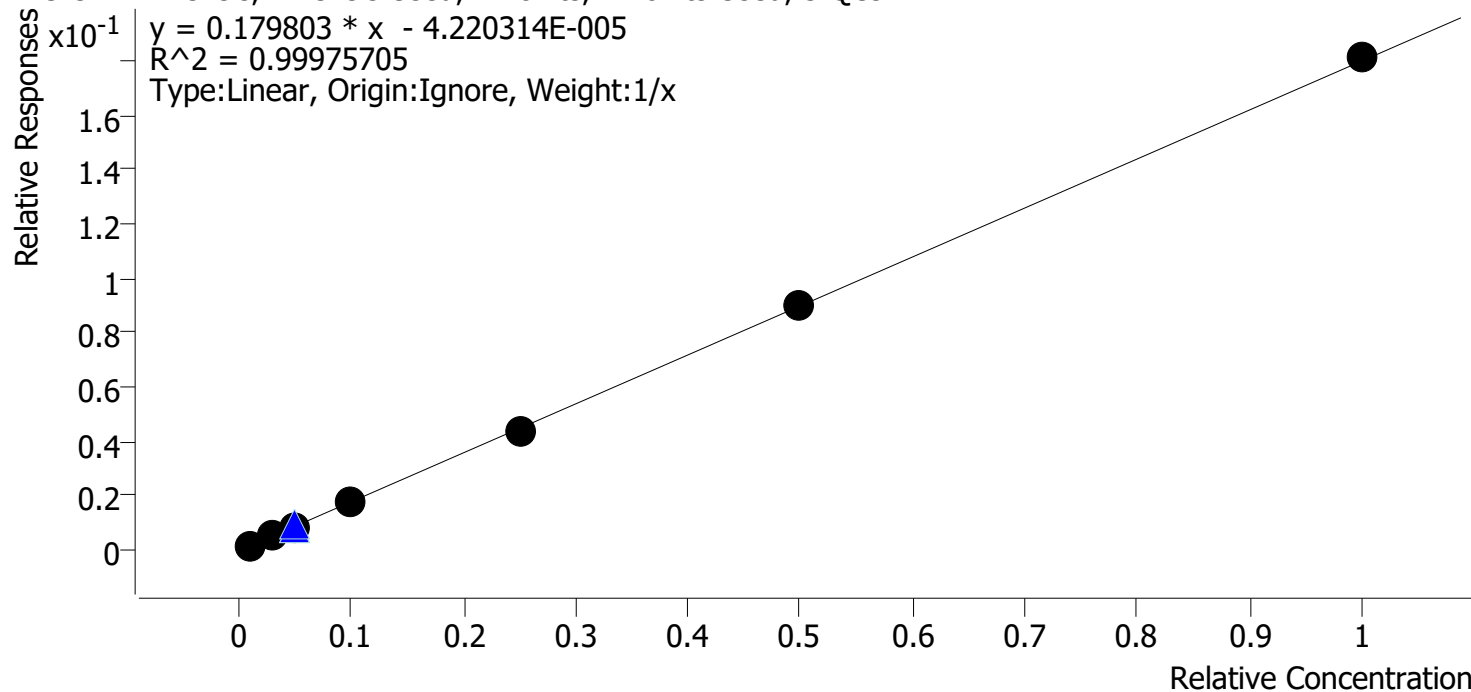
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.3
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	20.0	20.4	102.1
cal 4	4	✓	50.0	49.1	98.2
cal 5	5	✓	75.0	71.5	95.3
cal-6	6	✓	100.0	99.7	99.7
cal-7	7	✓	250.0	254.1	101.7

Compound Calibration Report

WAB

Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Last Cal. Update 12/12/2024 12:09 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-d3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.0	104.3
cal 2	2	✓	3.0	3.1	103.9
cal 3	3	✓	5.0	4.8	95.5
cal 4	4	✓	10.0	9.7	97.5
cal 5	5	✓	25.0	24.5	97.8
cal-6	6	✓	50.0	50.2	100.4
cal-7	7	✓	100.0	100.7	100.7

Web

AM #26 Cannabinoids Screen Results

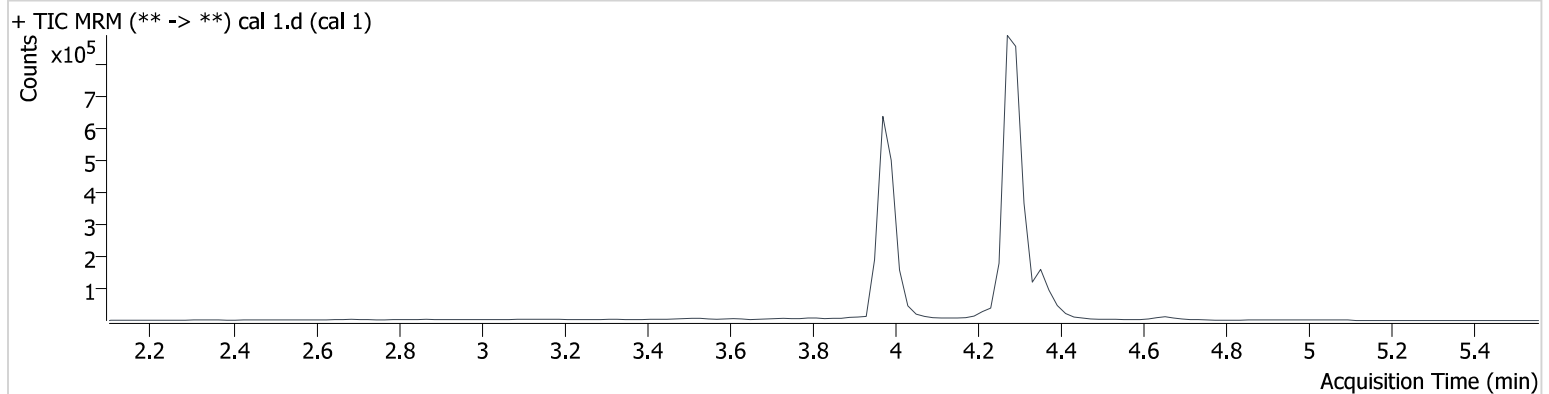
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-A1
Injection Volume 5
Acq. Date-Time 12/10/2024 10:56:01 AM
Sample Info.

Data File cal 1.d
Sample cal 1
Operator Mikel Buffaloe
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	4.365	2008	259606	1.10 ng/ml Low
THC-COOH	3.993	19638	278279	5.16 ng/ml Low
THC-OH	3.979	2725	1487072	1.04 ng/ml Low

Web

AM #26 Cannabinoids Screen Results

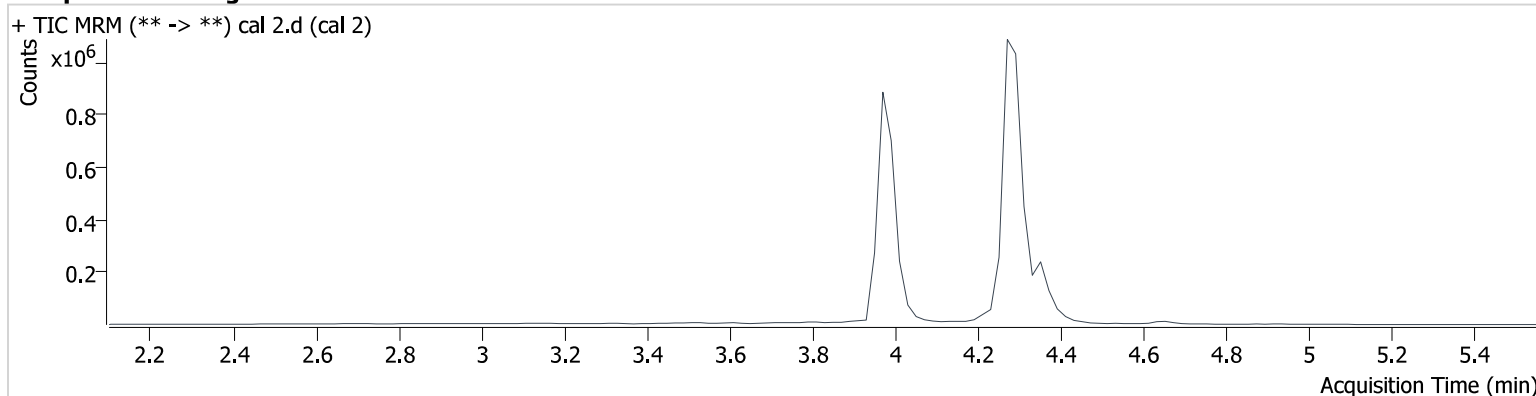
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-B1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:02:40 AM
Sample Info.

Data File cal 2.d
Sample cal 2
Operator Mikel Buffaloe
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	4.365	8719	362152	2.93 ng/ml Low
THC-COOH	3.993	49858	346498	9.98 ng/ml Low
THC-OH	3.979	11458	2059862	3.12 ng/ml

Web

AM #26 Cannabinoids Screen Results

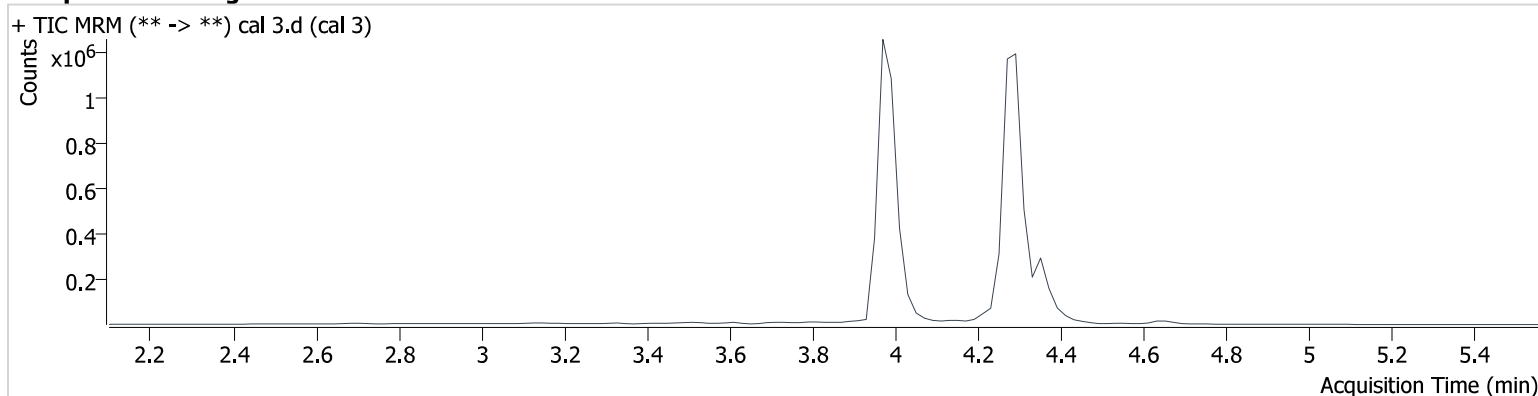
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-C1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:09:08 AM
Sample Info.

Data File cal 3.d
Sample cal 3
Operator Mikel Buffaloe
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	4.365	17506	430162	4.79 ng/ml
THC-COOH	3.993	148251	489466	20.41 ng/ml
THC-OH	3.979	24503	2868252	4.77 ng/ml

Web

AM #26 Cannabinoids Screen Results

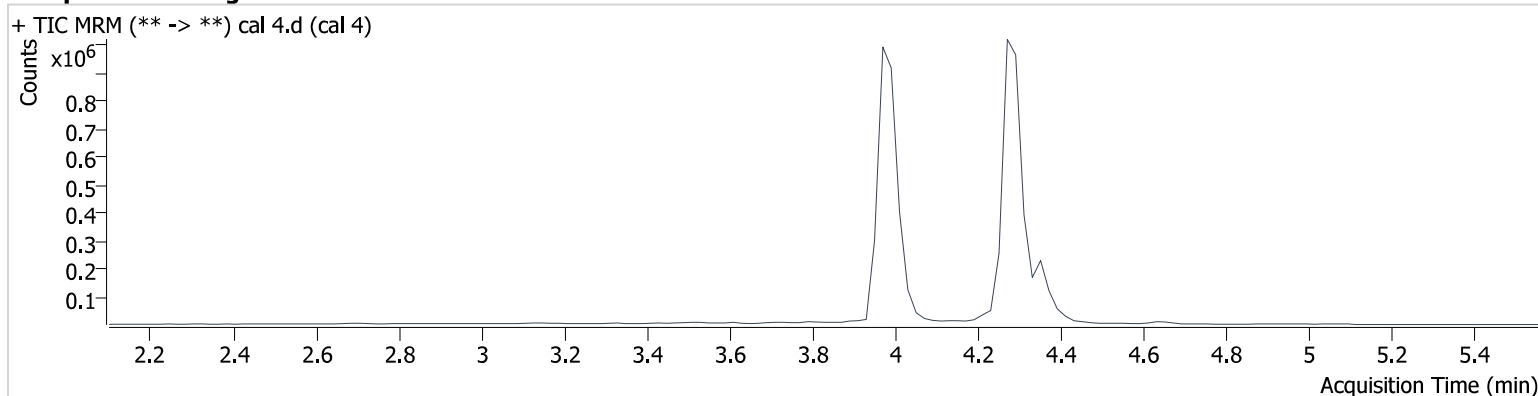
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-D1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:15:35 AM
Sample Info.

Data File cal 4.d
Sample cal 4
Operator Mikel Buffaloe
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	4.365	28693	336683	9.78 ng/ml
THC-COOH	3.993	254733	344368	49.08 ng/ml
THC-OH	3.979	35082	2006746	9.75 ng/ml

AM #26 Cannabinoids Screen Results

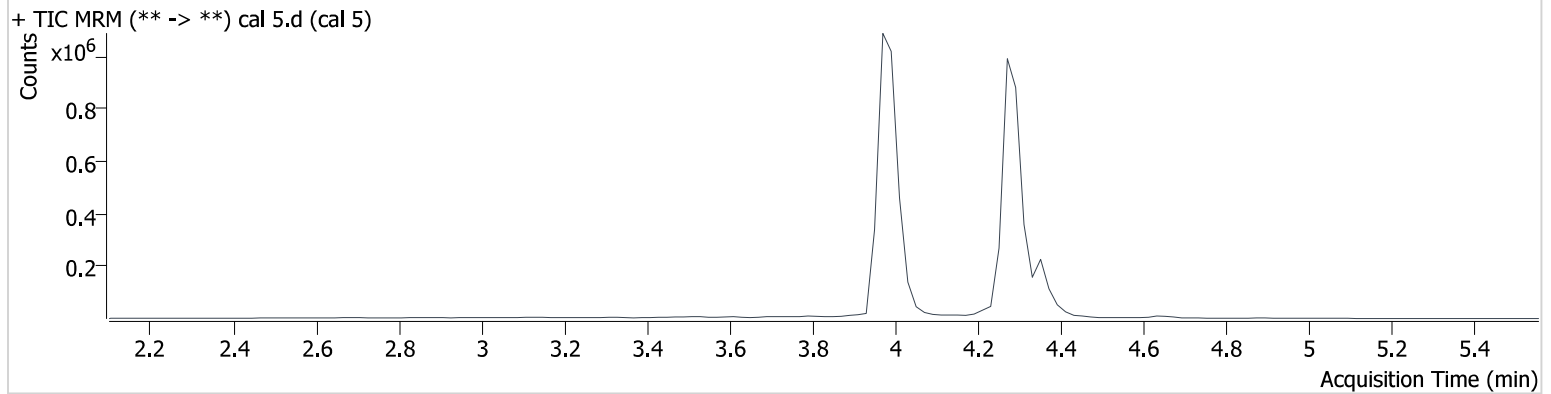
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-E1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:22:03 AM
Sample Info.

Data File cal 5.d
Sample cal 5
Operator Mikel Buffaloe
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



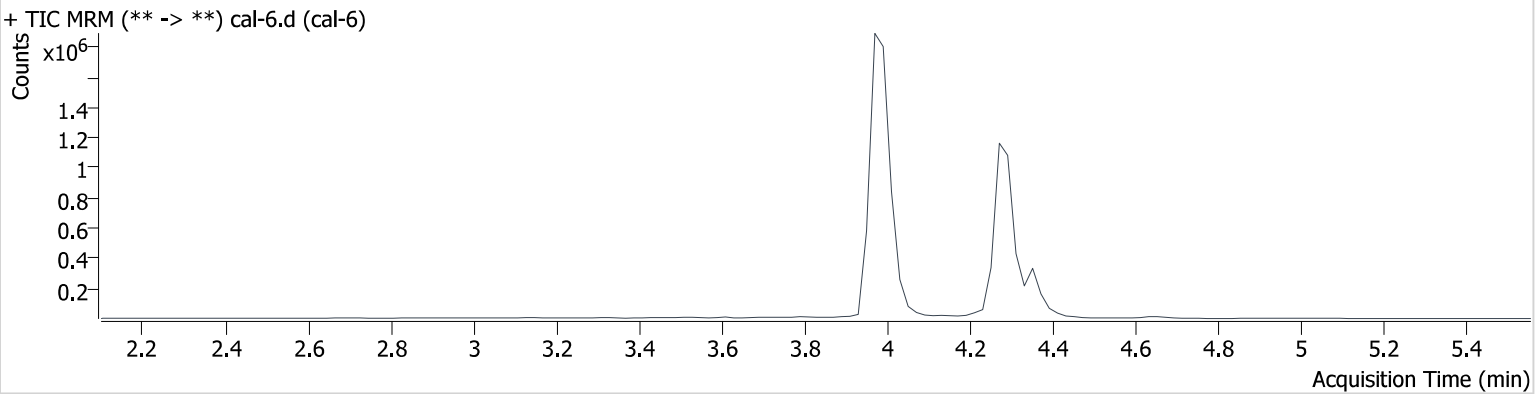
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.365	64629	297822	24.55 ng/ml
THC-COOH	3.993	335351	310186	71.49 ng/ml
THC-OH	3.979	78474	1786519	24.45 ng/ml

MB

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin		
Calibration Last Update	12/12/2024 12:09:21 PM		
Instrument	69679	Data File	cal-6.d
Type	Cal	Sample	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Mikel Buffaloe
Sample Position	P3-F1	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.
Injection Volume	5		
Acq. Date-Time	12/10/2024 11:28:31 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.365	164393	367903	50.31 ng/ml
THC-COOH	3.993	639646	423154	99.74 ng/ml
THC-OH	3.979	222126	2462024	50.20 ng/ml

Te text here

Web

AM #26 Cannabinoids Screen Results

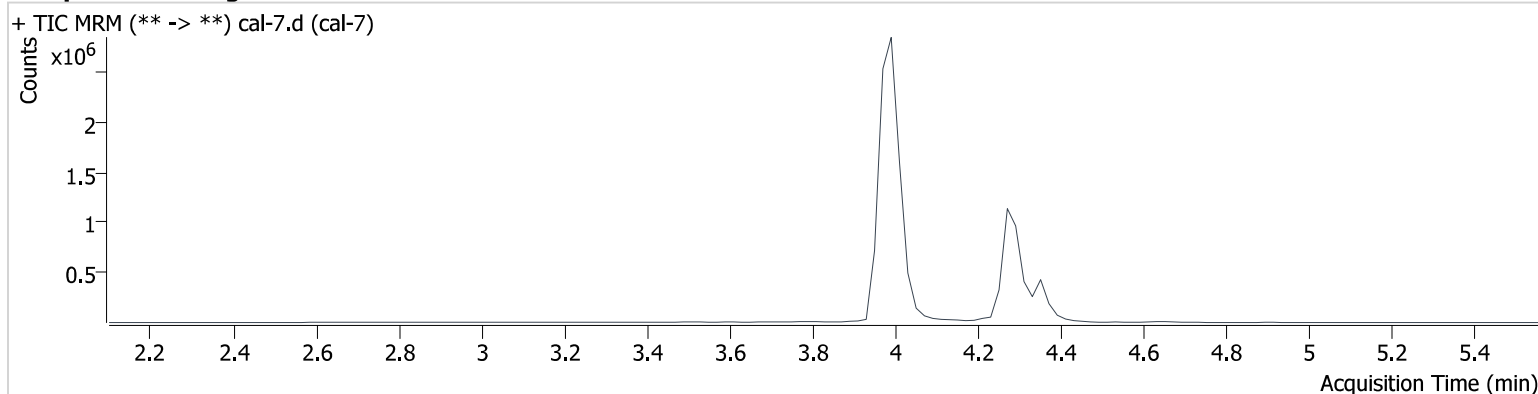
Batch results D:\MassHunter\Data\2024\am 25-26\120924r\QuantResults\am26.batch.bin
Calibration Last Update 12/12/2024 12:09:21 PM

Instrument 69679
Type Cal
Acq. Method am 26 cann scr 5-5-20.m
Sample Position P3-G1
Injection Volume 5
Acq. Date-Time 12/10/2024 11:34:59 AM
Sample Info.

Data File cal-7.d
Sample cal-7
Operator Mikel Buffaloe
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	4.365	346112	386638	100.55 ng/ml
THC-COOH	3.993	1469700	380368	254.13 ng/ml
THC-OH	3.979	399505	2207735	100.66 ng/ml