



















Worklist: 6287

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-0468	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0511	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0545	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0550	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0579	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0585	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-0599	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0615	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0619	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0623	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-0623	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-0623	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-0627	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0629	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-0636	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0637	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-0642	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1081	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 3/23/23 Analyst: Anne Nord
Plate lot#: 220805 Plate retest date: 02/05/23

Mobile phase A: 10mM Ammonium Formate
0.5M Ammonium Hydroxide
Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC 20% Methanol
Blank Blood Lot: 22B52016-1 **Blank Urine lot:** 12522 **Column:** Agilent Phenyl Hexyl (4.6x50mm, 2.7um)
LCMS-QQQ ID: 69679

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 pipette: 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer mix for at least five minutes ambient temperature.
Pipette **250 µL blood (calibrated pipette)** or 250 ul urine in wells of analytical (standards) plate. **Pipette ID: 390993**
- 3. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 5. Transfer **300 µL of blood or urine+base** mixture to corresponding wells of SLE+ plate.
- 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) Manifold ID: 66792
- 7. Wait 5 minutes.
- 8. Add **900 µL ethyl acetate.**
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 11. Add **900 µL ethyl acetate.**
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 14. Remove plate containing eluate. add 50 ul 1% HCl in MeOH Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
- 15. Reconstitute in **100 µL 20% LC MeOH** in LC Water 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 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? (If no is it described in comments?)
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *External controls run for plate re-test.*

C2023-0585-1 not evaluated for phenytoin due to low internal response.



Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, methamphetamine, alprazolam, , morphine
Stock solution 1mg/ml 50 ul each in 4800 ul MeOH (VWR 21050767)

ppd 7/7/22: Exp: 7/7/23 lot 7722 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (7722) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 7/7/22, exp 7/7/23 lot u7722 negative urine 21522 by AMN

AM 25/28 Blood Control: 50ul working solution (7722) in 4950 ul neg blood (100ng/mL Expected concentration)

ppp 7/7/22, exp 7/7/23 lot b7722 neg blood 22B52016-3 by AMN

	1	2	3	4	5	6	7	8	9	10	11	12
A			511-1	636-1						585-1		
B	Cal 1		545-1	637-1						m2023-1081-2		629-1
C			550-1	642-1								
D			579-1							623-3		
E			599-1							623-2		
F		negative blood	615-1							623-1		
G		external blood	619-2							external control urine		
H		468-1	627-1							negative urine		

plate position 2

C2023-____-

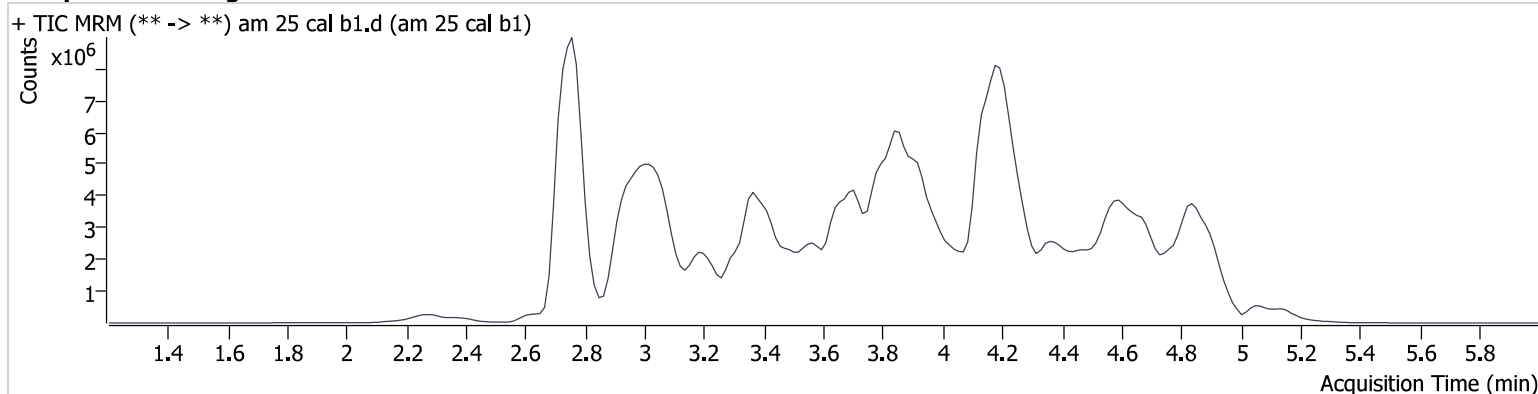
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\mds.batch.bin
Calibration Last Update 3/27/2023 9:55:38 AM

Instrument 69679
Type Cal
Acq. Method mds713.m
Sample Position P2-B1
Injection Volume 2.5
Acq. Date-Time 3/23/2023 11:44:30 AM
Sample Info.

Data File am 25 cal b1.d
Sample am 25 cal b1
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.893	1368199	1741.0	67.0	3918973	10.000
6-MAM	2.891	23223	33.3	4691.2	586691	10.000
7-aminoclonazepam	3.613	326360	40.2	67.7	1684344	10.000
7-aminoflunitrazepam	3.874	541233	172.4	396.0	1684344	10.000
9-Hydroxyrisperidone	3.974	2462436	594002.5	33702.3	1684344	10.000
Acetyl Fentanyl	3.855	186901	134.7	16960.3	7738202	10.000
Acetyl Norfentanyl	2.914	174691	1636.2	91.4	7738202	10.000
a-hydroxyalprazolam	4.716	106556	∞	13861.2	1684344	10.000
alpha-hydroxymidazolam	4.699	489488	∞	181.6	1684344	10.000
alpha-PHP	3.894	1545467	449.0	290.1	4568050	10.000
alpha-PVP	3.603	2102716	568.7	503.1	4568050	10.000
Alprazolam	4.780	1169475	252.2	450.3	3918973	10.000
Amitriptyline	4.615	1227863	126.9	99.2	3765302	10.000
Amphetamine	2.980	2216795	1069.4	1176.4	4568050	10.000
Benzoylcegonine	3.505	73800	166.2	23.2	124990	10.000
Brompheniramine	4.256	55182	34.0	4.4 Low	31518619	10.000
Buprenorphine	4.157	34141	13353.1	162.1	812918	10.000
Bupropion	3.848	1852669	724.1	431.1	7352024	10.000
Carbamazepine	4.357	3083055	∞	255.5	5925363	10.000
Carisoprodol	4.339	559326	238659.6	530.5	2124311	10.000
Chlordiazepoxide	4.766	352459	299.2	519.8	6479684	10.000
Chlorpheniramine	4.106	3193765	∞	8603.7	3030668	10.000
Chlorpromazine	4.824	1506258	219524.4	387.5	5925363	10.000
Citalopram	4.301	1580219	289.7	131.5	3030668	10.000
Clomipramine	4.840	1517612	186057.8	332.9	3030668	10.000
Clonazepam	4.640	499078	2673.0	12763.1	6479684	10.000
Clonazolam	4.514	520224	86808.8	106866.6	6479684	10.000
clozapine	4.393	2283026	6808.3	10351.6	7523041	10.000
Cocaehtylene	3.917	1938026	272294.5	879.5	11761351	10.000
Cocaine	3.687	2753981	1028.6	307.6	11761351	10.000
Codeine	2.741	164028	20888.7	528.9	2803363	10.000
Cyclobenzaprine	4.523	2008075	136.0	50.2	3765302	10.000
Desipramine	4.569	2711579	298695.7	918.5	3765302	10.000
Dextromethorphan	4.199	1185717	973.4	302.6	4982691	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.478	1280585	314.7	314.5	31518619	10.000
Diazepam	5.042	496956	217.2	807.1	6479684	10.000
Dihydrocodeine	2.725	486043	285.5	736.0	31518619	10.000
Dimethyltryptamine	3.054	1209577	367.6	1298.9	11403400	10.000
Diphenhydramine	4.155	4816956	560.8	398.2	31518619	10.000
Doxepin	4.321	1128447	261.8	39.0	6983191	10.000
Doxylamine	3.752	4090648	944.0	953.3	1094611	10.000
Duloxetine	4.520	51017	10281.7	311.2	2840172	10.000
EDDP	4.214	1050857	372.3	258.4	1731888	10.000
Estazolam	4.690	1773268	442.7	401.6	6479684	10.000
Etizolam	4.760	109226	15611.0	974.6	6479684	10.000
Fentanyl	4.069	163409	35.2	22879.8	7738202	10.000
Flualprazolam	4.608	418417	314.5	199447.4	6479684	10.000
Flunitrazepam	4.748	1081665	4140.8	586.6	6479684	10.000
Fluorofentanyl	4.114	135758	18713.8	238.2	7738202	10.000
Fluoxetine	4.488	1782366	1134.6	18915.5	2840172	10.000
Flurazepam	4.282	1480337	267.7	43814.2	6479684	10.000
Hydrocodone	2.999	573070	732.8	220.6	2803363	10.000
Hydromorphone	2.379	406670	285.4	208.8	2803363	10.000
hydroxyzine	4.636	1375736	1193.0	122739.8	31518619	10.000
Imipramine	4.567	3533036	275.0	94.8	3765302	10.000
Ketamine	3.433	1499870	430.6	131.2	31518619	10.000
Lamotrigine	3.616	131538	100.3	300.6	3030668	10.000
Levamisole	2.946	1263138	2006.5	187.7	31518619	10.000
Levetiracetam	2.643	548718	250.9	457.2	3030668	10.000
Lorazepam	4.594	148971	69.0	162.5	6479684	10.000
Maprotiline	4.615	811322	330.4	95.6	3765302	10.000
MDA	3.115	1719882	1024.0	309.4	11403400	10.000
MDEA	3.343	2512072	2913.1	136.2	11403400	10.000
MDMA	3.175	2655123	1447.4	207.6	11403400	10.000
Meperidine	3.663	1266160	211.6	257.1	31518619	10.000
Meprobamate	3.758	427972	507.4	57.4	2124311	10.000
Methadone	4.549	3076073	430.0	237.1	1731888	10.000
Methamphetamine	3.070	4825348	∞	∞	11403400	10.000
Methocarbamol	3.725	244722	300.6	490.4	31518619	10.000
Methylphenidate	3.618	4394443	1727.9	369.9	8670247	10.000
Metoprolol	3.538	363373	1422.7	1539.1	4982691	10.000
Midazolam	4.470	283372	40886.8	30704.7	6479684	10.000
Mirtazapine	3.769	1368161	13801.4	511.9	31518619	10.000
Mitragynine	4.282	182809	16530.2	230.0	8670247	10.000
Morphine	2.198	101736	∞	∞	68988	10.000
Norbuprenorphine	3.898	25786	2783.9	3754.8	812918	10.000
Nordiazepam	4.892	429101	1181.7	320.6	6479684	10.000
Norfentanyl	3.418	3136167	6573.5	322.8	11748917	10.000
Norhydrocodone	3.016	36512	39.0	97.0	2803363	10.000
norketamine	3.419	332588	230.2	4022.7	31518619	10.000
Normeperidine	3.726	1457481	206.6	186.9	3030668	10.000
Noroxycodone	2.968	610501	141.3	121.1	4984203	10.000
Nortriptyline	4.617	1233909	219.4	135.5	3765302	10.000
O-desmethyl-tramadol	2.959	3628957	12741.4	207.4	3030668	10.000
O-Desmethylvenlafaxine	3.339	989594	299.4	467.5	3030668	10.000
Olanzapine	3.410	634030	84.9	31.4	7523041	10.000
Oxazepam	4.706	930022	216.8	104.4	3918973	10.000
Oxycodone	2.952	1367878	137.5	447.4	4984203	10.000
Oxymorphone	2.271	637825	224.4	160.2	68988	10.000
Paroxetine	4.515	230762	69.2	22895.9	2840172	10.000
Phenazepam	4.821	1023322	1143.3	824.8	6479684	10.000
Phencyclidine	4.048	2346270	898.7	84.9	31518619	10.000
Phentermine	3.238	855959	∞	∞	8670247	10.000
Phenytol	4.248	85922	3275.6	18.6	37560	10.000



AM #25 Multi-Drug Screen Results

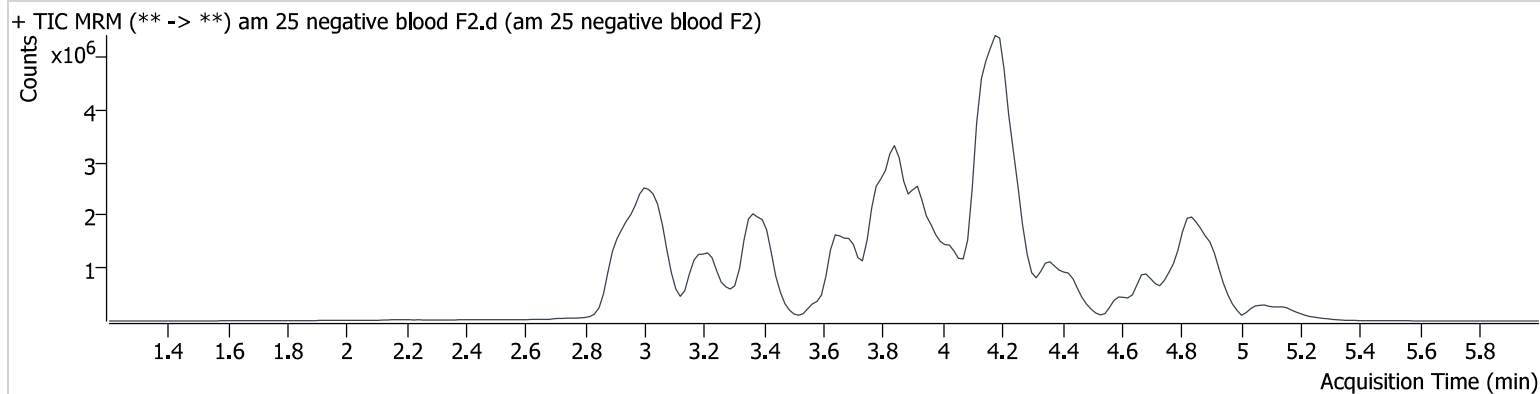
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
primidone	3.542	251140	650.0	70.8	3765302	10.000
Promethazine	4.475	3856666	1067.6	287.7	3030668	10.000
Pseudoephedrine	2.763	44930275	16213.4	5166.6	8670247	10.000
Quetiapine	4.405	1573525	544.0	4605.5	14308553	10.000
Risperidone	4.158	2322920	8138.1	1694.2	269382	10.000
Sertraline	4.811	710860	∞	∞	2840172	10.000
Sufentanil	4.344	125238	30643.7	160.4	11748917	10.000
Tapentadol	3.557	2533186	1480.2	42.7	2803363	10.000
Temazepam	4.858	1639123	393.0	12.9	6479684	10.000
Topiramate	3.930	32761	5145.0	1240.7	124128	10.000
Tramadol	3.523	3631531	645.5	28.9	3030668	10.000
Trazodone	4.237	2044346	433.4	807.7	6983191	10.000
Venlafaxine	3.952	3328229	486.0	375.2	2840172	10.000
Zaleplon	4.504	721816	66765.9	903.8	14308553	10.000
Zolpidem	3.810	3472667	693.0	896.3	14308553	10.000
Zopiclone	3.944	252663	∞	76007.6	1094611	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\mds.batch.bin
Calibration Last Update 3/27/2023 9:55:38 AM

Instrument	69679	Data File	am 25 negative blood F2.d
Type	Sample	Sample	am 25 negative blood F2
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-F2	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/23/2023 11:51:22 AM		
Sample Info.			

Sample Chromatogram

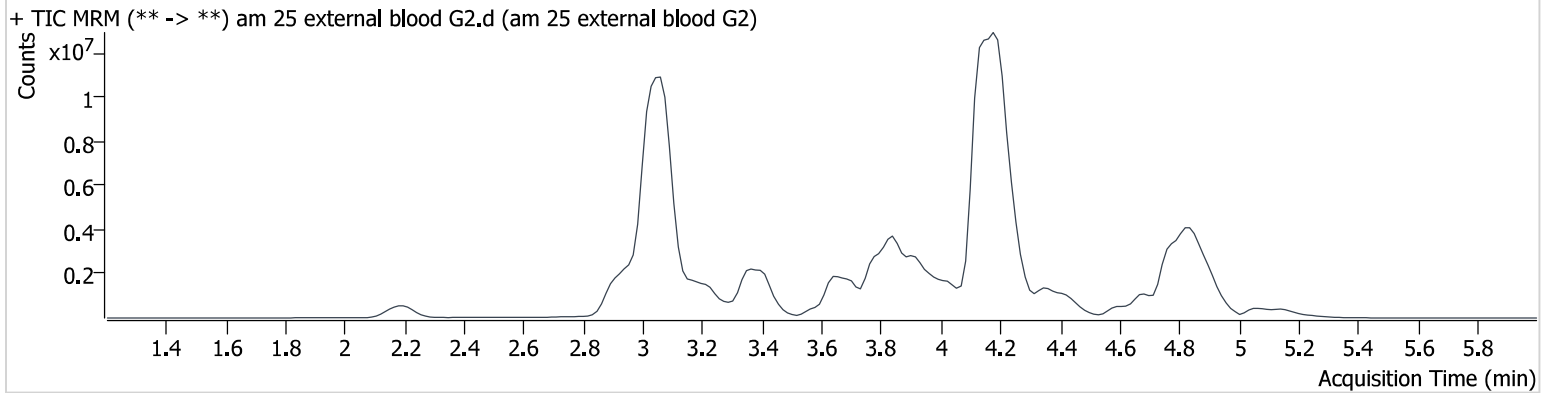


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\mds.batch.bin
Calibration Last Update 3/27/2023 9:55:38 AM

Instrument	69679	Data File	am 25 external blood G2.d
Type	Sample	Sample	am 25 external blood G2
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-G2	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/23/2023 11:58:05 AM		
Sample Info.			

Sample Chromatogram



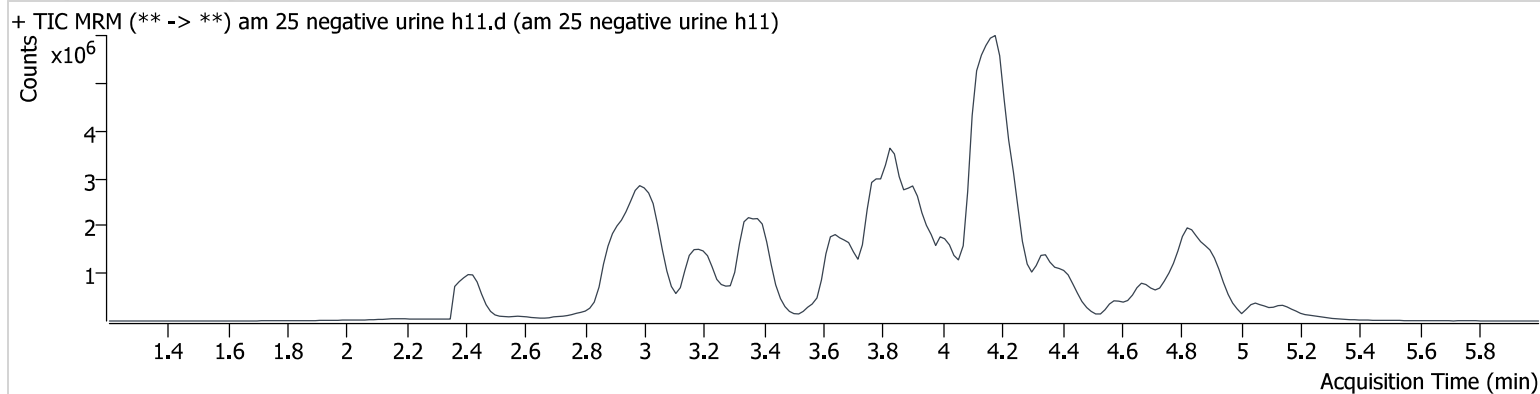
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.780	9311777	691.7	315.3	5162791	60.441
Diphenhydramine	4.140	42270923	11752.9	390.0	33220673	83.258
Methamphetamine	3.070	28519268	∞	∞	11476880	58.725
Morphine	2.198	1071319	∞	152831.2	91133	79.716

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\mds.batch.bin
Calibration Last Update 3/27/2023 9:55:38 AM

Instrument	69679	Data File	am 25 negative urine h11.d
Type	Sample	Sample	am 25 negative urine h11
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-H10	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/23/2023 1:31:59 PM		
Sample Info.			

Sample Chromatogram

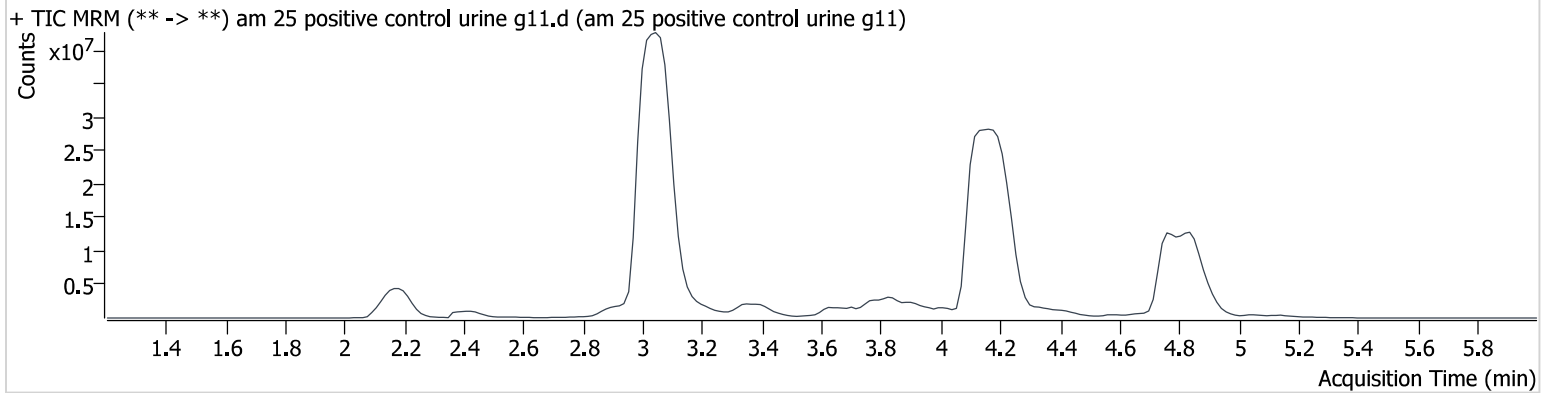


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\mds.batch.bin
Calibration Last Update 3/27/2023 9:55:38 AM

Instrument	69679	Data File	am 25 positive control urine g11.d
Type	Sample	Sample	am 25 positive control urine g11
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-G10	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/23/2023 1:25:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.764	58065290	∞	∞	2170880	896.318
Diphenhydramine	4.186	145879053	∞	7500882.	23257680	410.413
Methamphetamine	3.055	115934715	∞	∞	8107932	337.916
Morphine	2.168	9642828	∞	∞	93611	698.521

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 3/23/23 Analyst: Anne Nord

Plate lot#: 220802 Plate retest date: 2/02/23

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water

Mobile phase B: 0.1% Formic acid in MeOH
MTBE Hexane

Blank Blood Lot: 22B52016-1 **Urine Blank:** 12522

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

LCMS-QQQ ID: 69679

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 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.
Pipette **1000 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: I41142J**
Pipette 1000 ul urine to analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 4. Pipette **500 µL 0.1% formic acid in blood** wells **500 ul saturated phosphate buffer in urine** wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer **800 µL of blood acid or urine acid** mixture to corresponding wells of SLE+ plate.
- 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) Manifold ID: 66792
- 8. Wait 5 minutes.
- 9. Add **2.25 mL MTBE** (add in 3 increments of 750 µL).
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. **(12-15 PSI- Selector to the left)**.
- 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. **(12-15 PSI- Selector to the left)**.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
- 16. Reconstitute in **100 µL 100% LCMS MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
- 4. Did all QCs pass for each analyte? Yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *external controls run for plate re-test.*

C2023-0642-1 did not get injected in the initial sequence it was injected the next day followed by a positive control.



Toxicology AM method 27/26 external prep information

1.5 ★

3/28/23

.75 ★

3/28/23

working solution ~~15~~ ug/ml in meoh C-THC, THC-OH, ~~7.5~~ ug/ml THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH
Ppd 9/27/22 Exp: 9/27/23 lot 92722 by AMN

Drug	lot	expiration
C-THC	FE04151901	6/1/2024
THC-OH	FE06152002	6/1/2025
THC	FE04222001	5/1/2025

AM 27/26 blood control 100 ul working solution in 9900 ul blood

ppd 9/27/22 exp 9/27/23 blood lot 22B52016-1	lot b92722	Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	by amn
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AM 27/26 urine control 400 ul working solution in 9600 ul urine

out of use

ppd 9/27/22 Exp 9/27/23 neg urine lot 7722	lot u92722	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

	1	2	3	4	5	6
a	cal 1	Internal urine	615-1 mixing	623-1	615-1 SLE and injection	
b	cal 2	negative blood	619-2 mixing	623-2	619-2 SLE and injection	
c	cal 3	468-1 mixing	627-1	623-3	^{3/28/23}	
d	cal 4	511-1	636-1	629-1		
e	Cal 5	545-1	637-1	m2023-1081-2		
f	cal 6	550-1	642-1	external blood		
g	cal 7	579-1	negative urine	external urine		
h	Internal control (blood)	599-1	585-1	468-1 SLE and injection		

Plate position 3

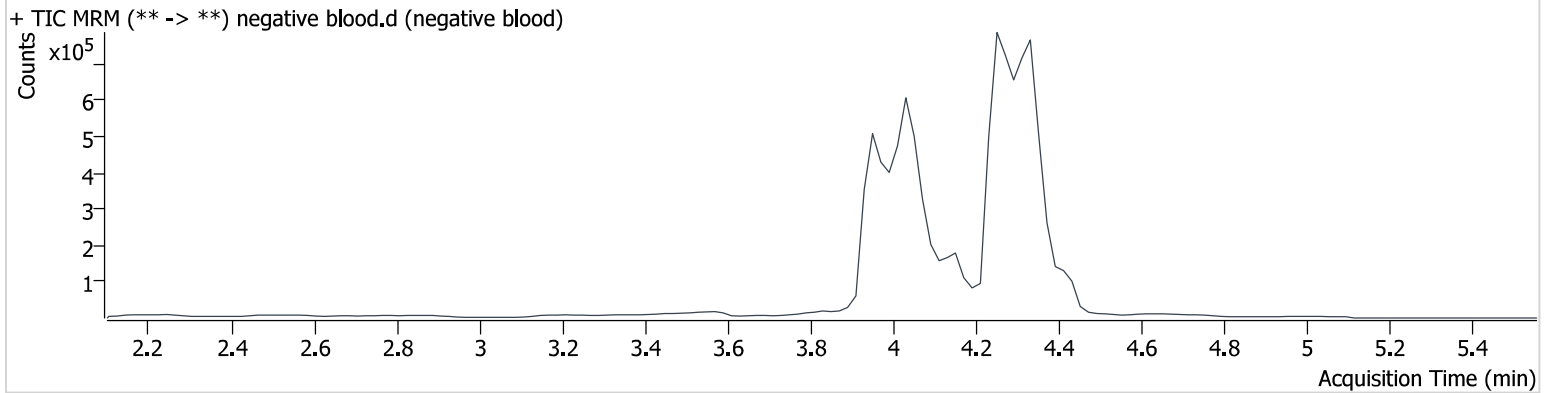
c2023-0 _____

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-B2	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:44:52 PM		
Sample Info.			

Sample Chromatogram

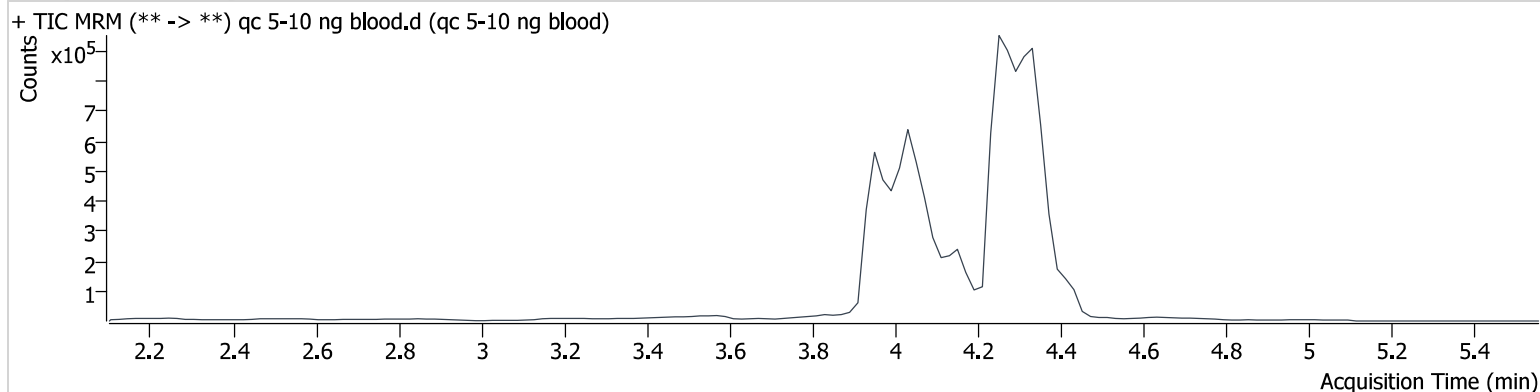


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	qc 5-10 ng blood.d
Type	QC	Sample	qc 5-10 ng blood
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-H1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:38:24 PM		
Sample Info.			

Sample Chromatogram



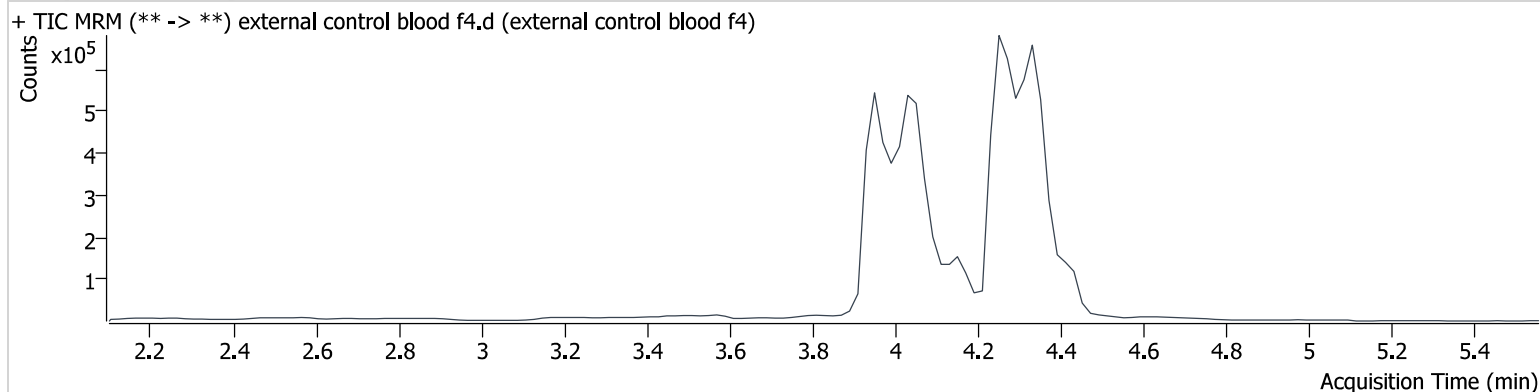
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	19817	470822	4.915 ng/ml
THC-COOH	4.073	181582	1128738	14.869 ng/ml
THC-OH	4.039	32300	3898701	4.624 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	external control blood f4.d
Type	Sample	Sample	external control blood f4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F4	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 5:41:25 PM		
Sample Info.			

Sample Chromatogram



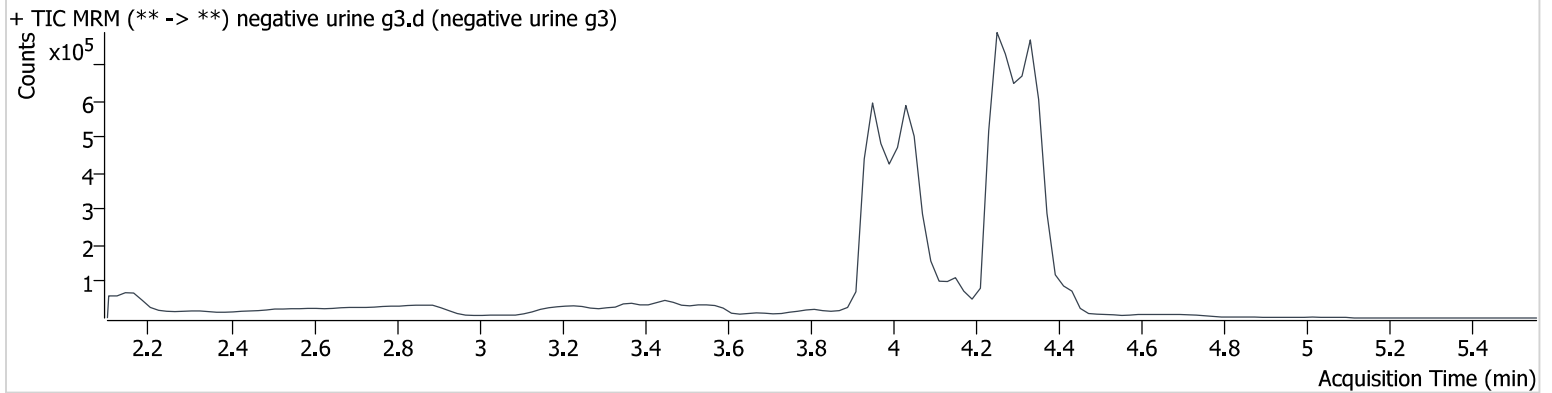
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	41270	552320	8.567 ng/ml
THC-COOH	4.073	112713	833572	12.562 ng/ml
THC-OH	4.039	75598	3171585	13.116 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	negative urine g3.d
Type	Sample	Sample	negative urine g3
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-G3	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 4:43:06 PM		
Sample Info.			

Sample Chromatogram

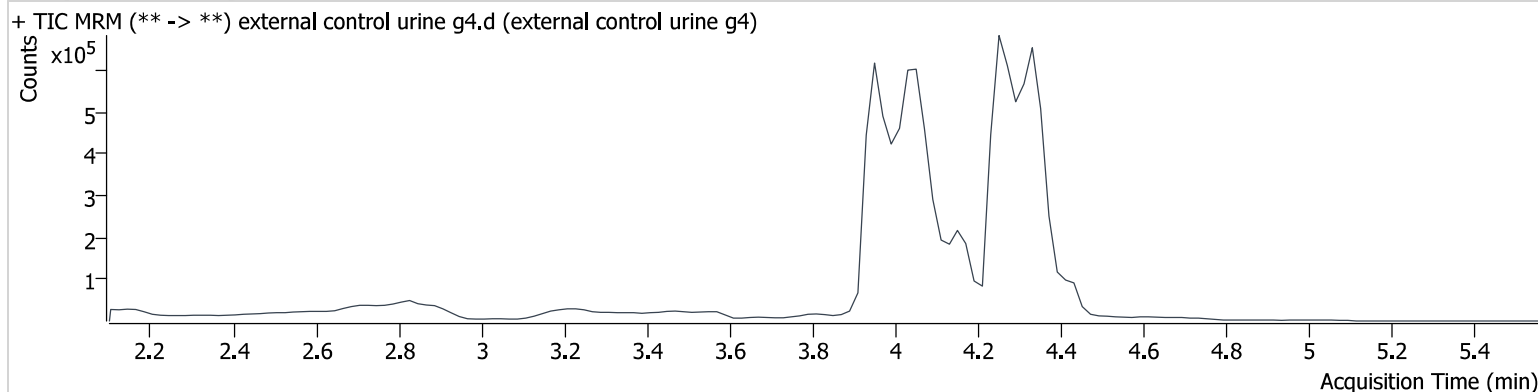


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	external control urine g4.d
Type	Sample	Sample	external control urine g4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-G4	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 5:47:53 PM		
Sample Info.			

Sample Chromatogram



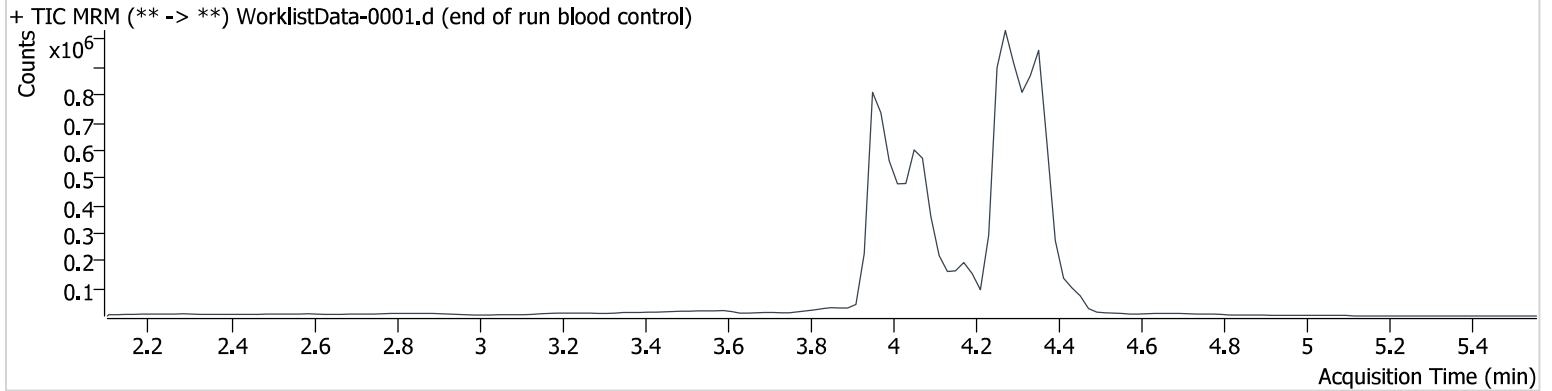
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.445	71030	337365	23.772 ng/ml
THC-COOH	4.073	376699	738594	46.264 ng/ml
THC-OH	3.959	159944	2864760	30.588 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	WorklistData-0001.d
Type	Sample	Sample	end of run blood control
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-H1	Comment	
Injection Volume	5		
Acq. Date-Time	3/24/2023 9:16:12 AM		
Sample Info.			

Sample Chromatogram

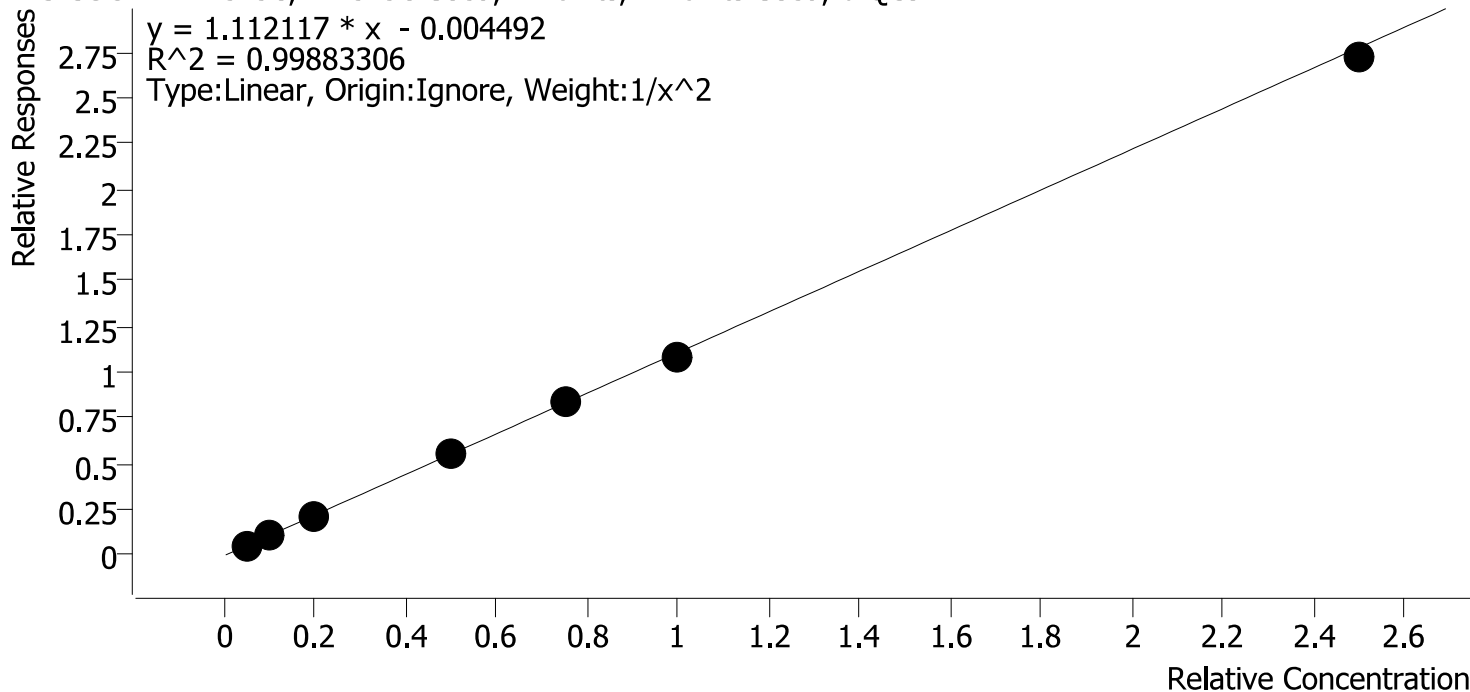


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.445	12943	325744	4.651 ng/ml
THC-COOH	4.093	135882	975611	12.928 ng/ml
THC-OH	3.979	38809	4738507	4.572 ng/ml

Compound Calibration Report

Batch results	D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin		
Last Cal. Update	3/24/2023 9:50 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



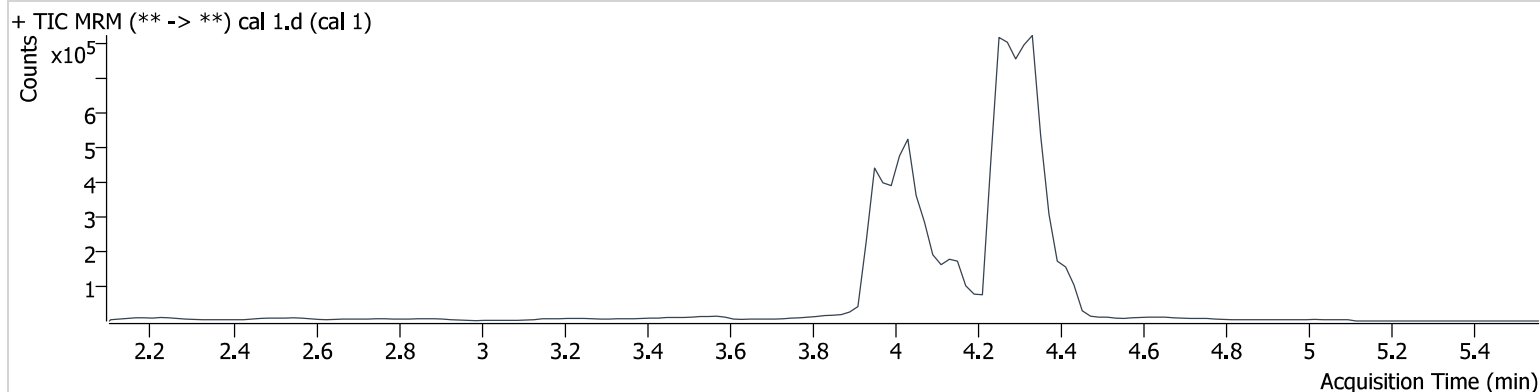
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.9
cal 2	2	✓	10.0	10.5	104.8
cal 3	3	✓	20.0	19.6	98.2
cal 4	4	✓	50.0	50.8	101.6
cal 5	5	✓	75.0	76.4	101.9
cal-6	6	✓	100.0	97.5	97.5
cal-7	7	✓	250.0	245.1	98.0

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal 1.d
Type	Cal	Sample	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 2:52:56 PM		
Sample Info.			

Sample Chromatogram



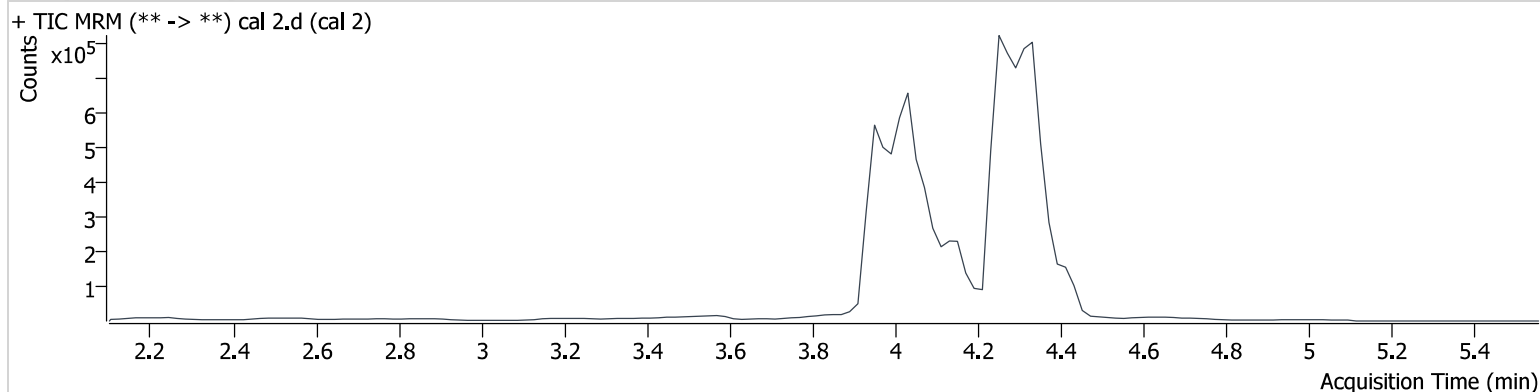
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	5698	686378	1.132 ng/ml Low
THC-COOH	4.073	50409	1009211	4.895 ng/ml Low
THC-OH	4.039	6164	3306472	1.118 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal 2.d
Type	Cal	Sample	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-B1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 2:59:34 PM		
Sample Info.			

Sample Chromatogram



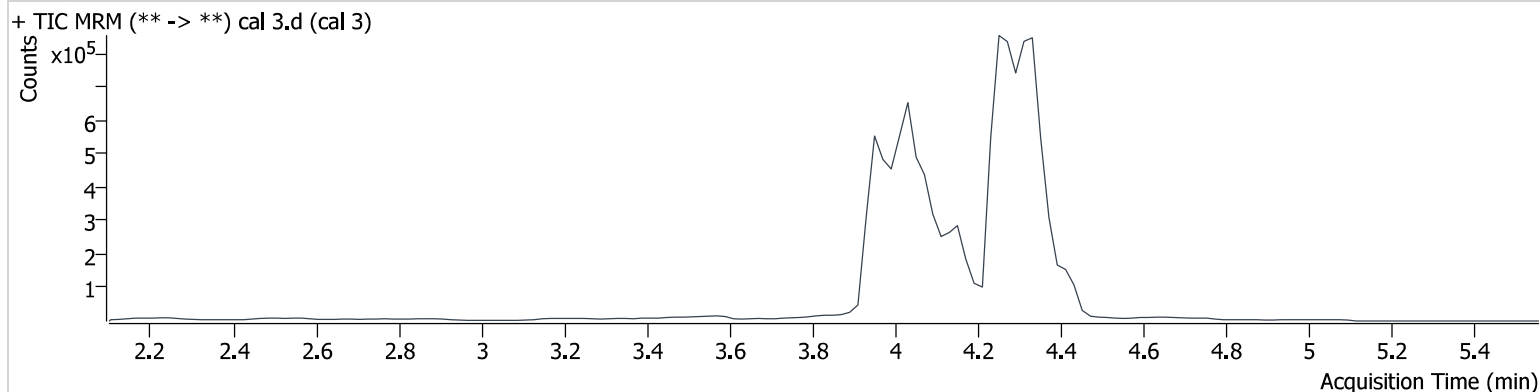
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	17470	693199	3.024 ng/ml
THC-COOH	4.073	133235	1188634	10.483 ng/ml
THC-OH	4.039	21334	4049172	2.977 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal 3.d
Type	Cal	Sample	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-C1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:06:04 PM		
Sample Info.			

Sample Chromatogram



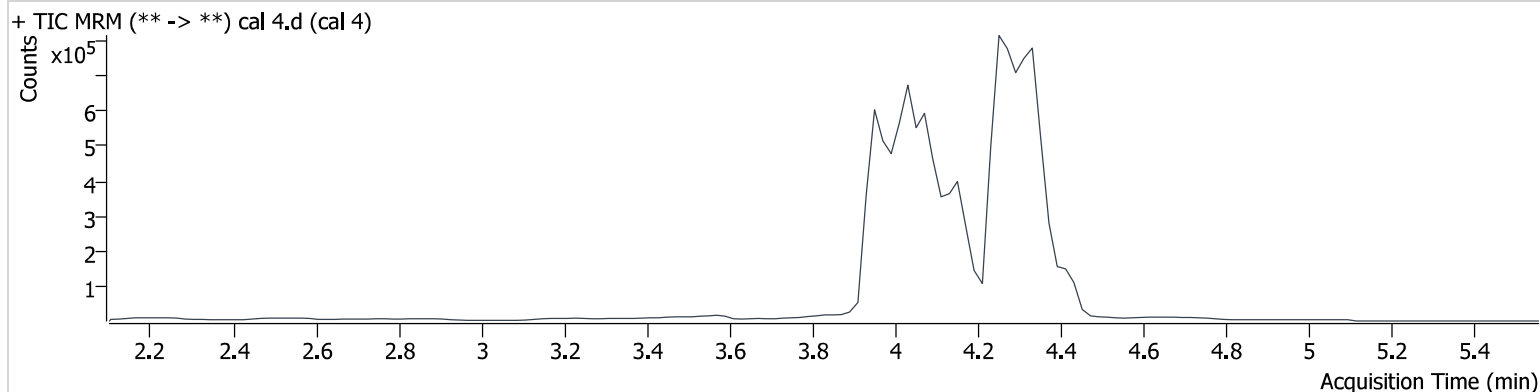
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	25476	630118	4.729 ng/ml
THC-COOH	4.073	268584	1255071	19.646 ng/ml
THC-OH	4.039	32212	3837776	4.683 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal 4.d
Type	Cal	Sample	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-D1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:12:32 PM		
Sample Info.			

Sample Chromatogram



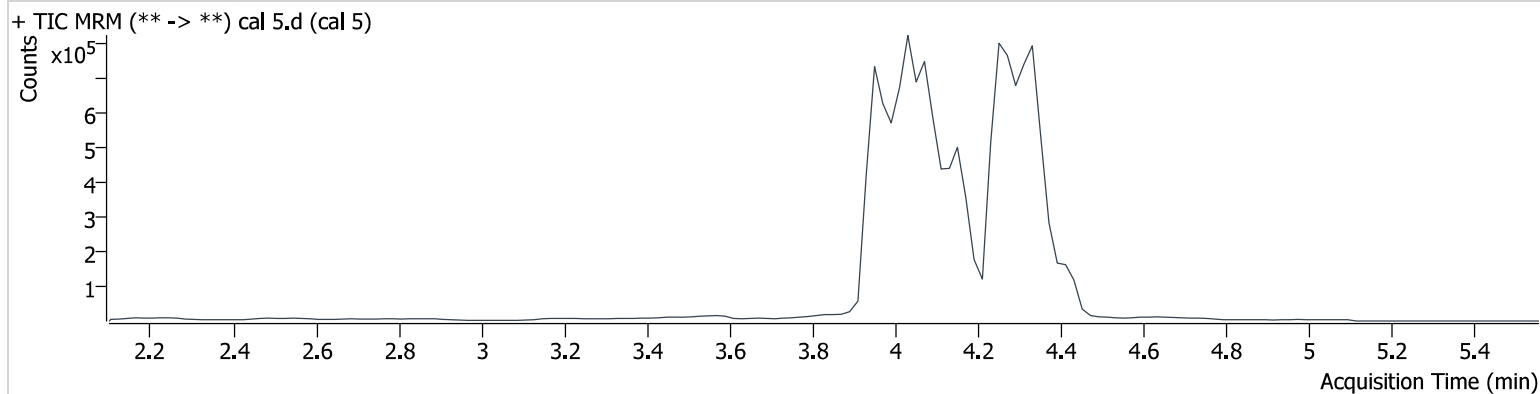
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	51946	629395	9.442 ng/ml
THC-COOH	4.073	647534	1155722	50.784 ng/ml
THC-OH	4.039	65879	3729286	9.746 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal 5.d
Type	Cal	Sample	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-E1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:19:00 PM		
Sample Info.			

Sample Chromatogram



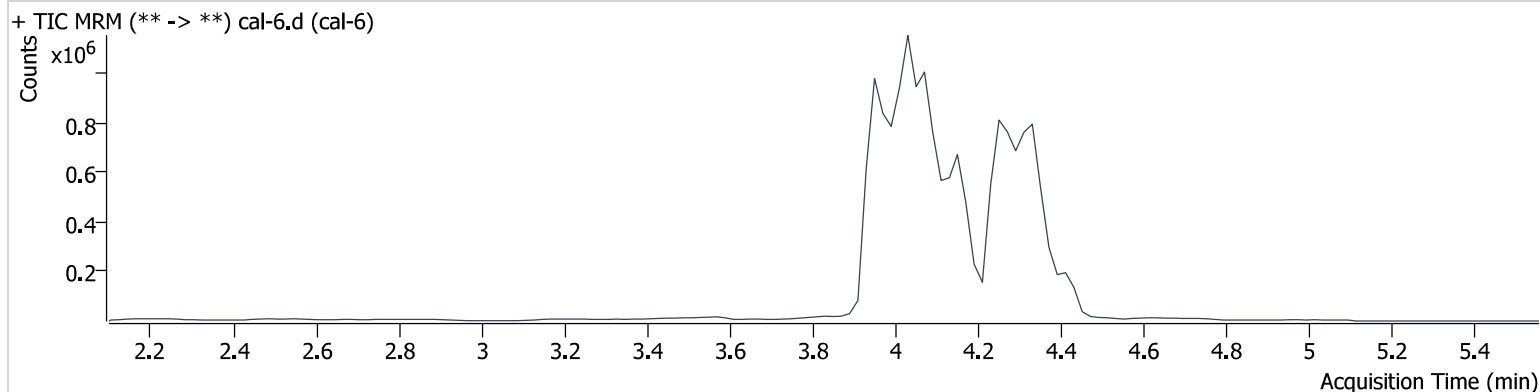
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	131851	620746	23.980 ng/ml
THC-COOH	4.073	948041	1121039	76.446 ng/ml
THC-OH	4.039	168677	3830540	24.146 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal-6.d
Type	Cal	Sample	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:25:28 PM		
Sample Info.			

Sample Chromatogram



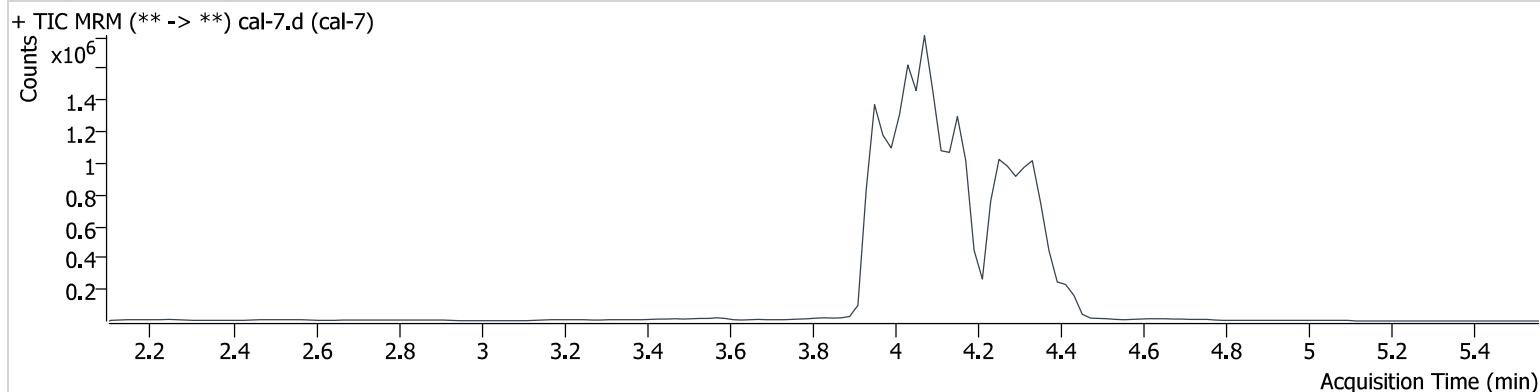
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	278849	635061	49.355 ng/ml
THC-COOH	4.073	1361211	1260379	97.516 ng/ml
THC-OH	4.039	369569	4046222	49.977 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\am 25-26\032323\QuantResults\cann.batch.bin
Calibration Last Update 3/24/2023 9:50:32 AM

Instrument	69679	Data File	cal-7.d
Type	Cal	Sample	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-G1	Comment	
Injection Volume	5		
Acq. Date-Time	3/23/2023 3:31:56 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.425	390394	427877	102.337 ng/ml
THC-COOH	4.073	3190812	1172768	245.050 ng/ml
THC-OH	4.039	729319	3933357	101.353 ng/ml