

















**Worklist: 6088**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2022-1790	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1902	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1913	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-1918	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1922	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1923	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1924	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1924	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1926	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1944	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-1951	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1986	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1991	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1994	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1997	1	AVK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2000	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2014	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2015	3	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

Extraction Date: 09/07/22 Analyst: Anne Nord
Plate lot#: 220315 Plate retest date: 09/15/22

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:** 7722 **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:

**Idaho State Police
Forensic Services**

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

Technical Justification for Analytical Method Deviations: Refer to validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022)

Technical Review

Departure approved
Comments:


Departure Not Approved
Comments:

Approver: Rachel Cutler
Title: Laboratory Manager

Date: 2/10/2022

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 2/10/2022



Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendyramine, 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

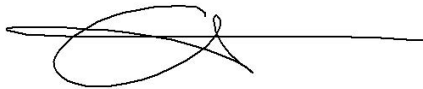
Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
alprazolam	FE06102008	6/1/2025
Diphendyramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

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	cal 1	negative urine		2015-3	1924-2	negative blood						
B		urine control			1924-3	1790-1						
C		1944-1			1986-1	1902-1						
D					1991-1	1918-1						
E					1994-3	1922-1						
F					1997-1	1923-1						
G					2000-3	1926-1						
H		1913-2			2014-1	1951-1						

C2022-____-__

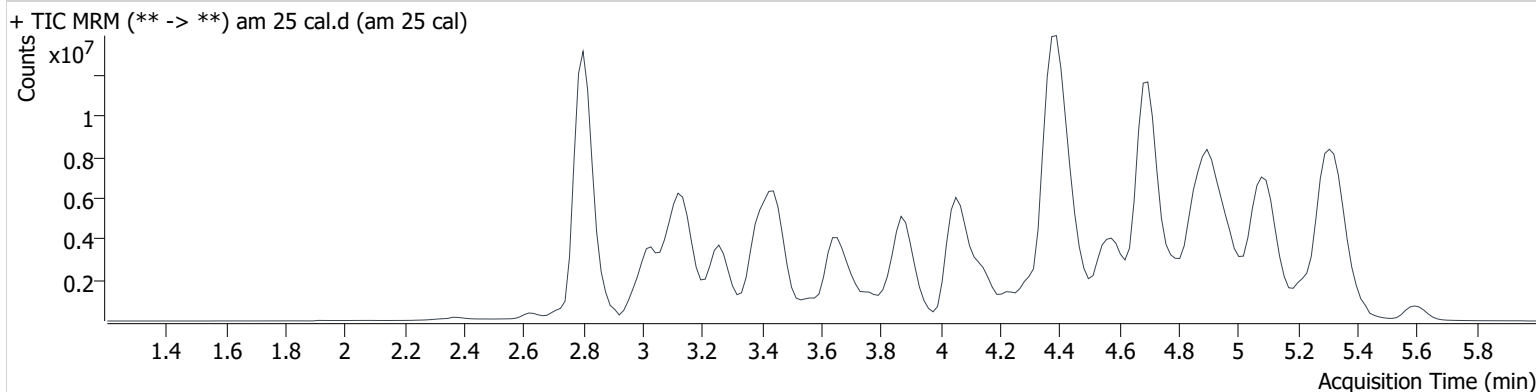
plate position 2

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\multidrugscreen.batch.bin
Calibration Last Update 9/7/2022 3:51:24 PM

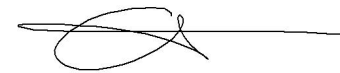
Instrument	69679	Data File	am 25 cal.d
Type	Cal	Sample	am 25 cal
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-A1	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/7/2022 12:59:03 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.878	629930	1304.8	11.2	959519	10.000
6-MAM	3.515	33677	9292.3	9168.3	852701	10.000
7-aminoclonazepam	3.643	521709	498.5	985.5	1838369	10.000
7-aminoflunitrazepam	3.874	777345	4869.8	819.3	1838369	10.000
9-Hydroxyrisperidone	4.603	4027959	7171.0	41534.5	1838369	10.000
Acetyl Fentanyl	4.731	335608	171.6	124161.2	12644044	10.000
Acetyl Norfentanyl	2.976	184178	480.9	132.5	12644044	10.000
a-hydroxyalprazolam	4.715	62103	691.1	12376.4	1838369	10.000
alpha-hydroxymidazolam	4.790	1673592	276.4	284.8	1838369	10.000
alpha-PHP	4.432	2090535	256.9	178.2	4783920	10.000
alpha-PVP	4.141	3048621	265.2	408.6	4783920	10.000
Alprazolam	4.810	973135	319.9	274.8	959519	10.000
Amitriptyline	4.967	1198335	750.6	290.7	5387464	10.000
Amphetamine	3.025	1941197	832.4	890.0	4783920	10.000
Benzoylcegonine	3.474	94682	57.8	38.5	165967	10.000
Brompheniramine	4.440	67388	16782.3	4630.7	39207871	10.000
Buprenorphine	5.606	99578	22869.3	1634.6	2474488	10.000
Bupropion	4.463	2736651	396.8	413.3	9493439	10.000
Carbamazepine	4.387	3438514	2067.4	1165.1	20274	10.000
Carisoprodol	4.323	480895	112213.8	54.4	1747581	10.000
Chlordiazepoxide	4.995	506631	128244.3	∞	5030734	10.000
Chlorpheniramine	4.321	4387019	∞	∞	4772754	10.000
Chlorpromazine	5.358	2681418	269525.6	1222.4	10120445	10.000
Citalopram	4.438	2021999	386.8	221029.5	4772754	10.000
Clomipramine	5.297	2909372	1374404.9	599.5	4772754	10.000
Clonazepam	4.655	222526	211.0	194.1	5030734	10.000
clonazolam	4.529	219763	36803.6	17844.8	5030734	10.000
clozapine	5.081	4521571	1508733.4	910929.5	14096991	10.000
Cocaehtylene	4.239	3403811	773427.1	578677.0	17768163	10.000
Cocaine	4.087	3913307	6339.8	148.6	17768163	10.000
Codeine	3.550	296479	222.5	1030.7	3571571	10.000
Cyclobenzaprine	4.829	2600280	1400.2	67.5	5387464	10.000
Desipramine	4.692	3729603	700905.9	778.4	5387464	10.000
Dextromethorphan	4.399	1504359	5461.7	245043.9	7291192	10.000

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.570	1539439	1692.1	11555.7	7291192	10.000
Diazepam	5.072	769487	563.9	400.3	5030734	10.000
Dihydrocodeine	3.135	727573	391.0	∞	39207871	10.000
Diphenhydramine	4.400	6516980	2416.6	652.8	39207871	10.000
Doxepin	4.675	1480651	1166.0	96.8	23188465	10.000
Doxylamine	3.890	6717217	∞	∞	1669021	10.000
Duloxetine	4.643	50950	1154.3	1577.4	3699317	10.000
EDDP	4.290	160382	1152.7	25366.8	334951	10.000
Estazolam	4.720	1452152	1023.9	424324.9	5030734	10.000
Etizolam	4.790	113703	107349.0	183315.4	5030734	10.000
Fentanyl	4.928	275096	129.1	133033.3	12644044	10.000
Flualprazolam	4.623	351115	96262.6	15123.7	5030734	10.000
Flunitrazepam	4.778	689746	231.6	409.8	5030734	10.000
Fluoxetine	4.611	1958116	214.6	41.9	3699317	10.000
Flurazepam	4.925	2608490	533411.0	181.5	5030734	10.000
Hydrocodone	3.765	744656	447.1	272.8	3571571	10.000
Hydromorphone	3.031	575626	39.8	420.8	3571571	10.000
hydroxyzine	5.232	4286418	3824.3	1008332. 3	7291192	10.000
Imipramine	4.889	4406220	5914.6	1124.0	5387464	10.000
Ketamine	4.448	2126040	815.1	61.6	7291192	10.000
Lamotrigine	3.770	154584	192.4	23543.4	4772754	10.000
Levamisole	3.727	1742369	97249.1	452.1	7291192	10.000
Levetireacetam	2.628	356140	214.0	590.7	4772754	10.000
Lorazepam	4.624	28564	234.5	∞	5030734	10.000
Maprotiline	4.706	473060	270.0	72.0	5387464	10.000
MDA	3.145	1451425	282.1	350.6	14095008	10.000
MDEA	3.404	2703035	360.7	330.1	14095008	10.000
MDMA	3.252	3079650	355.1	292.5	14095008	10.000
Meperidine	4.062	1733016	1770.9	249.9	7291192	10.000
Meprobamate	3.742	99052	12108.9	∞	1747581	10.000
Methadone	4.687	4467343	439.2	524.8	334951	10.000
Methamphetamine	3.146	6025414	∞	∞	14095008	10.000
Methocarbamol	3.694	94033	131.8	354.1	39207871	10.000
Methylphenidate	3.849	6646952	1570.9	3473.1	7291192	10.000
Metoprolol	3.599	508021	345.8	1569.5	7291192	10.000
Midazolam	4.960	456240	92143.6	117414.7	5030734	10.000
Mirtazapine	4.861	2280344	824.4	639.4	7291192	10.000
Mitragynine	4.955	379376	105099.9	237875.6	7291192	10.000
Morphine	2.865	189126	828.5	217.4	145283	10.000
Norbuprenorphine	4.081	35041	11063.9	8638.8	2474488	10.000
Nordiazepam	4.921	532872	64317.0	91220.8	5030734	10.000
Norfentanyl	3.464	3234519	419.4	763.4	14362954	10.000
Norhydrocodone	3.077	77253	73.8	217.8	3571571	10.000
norketamine	4.341	314296	142.4	7694.3	7291192	10.000
Normeperidine	3.787	1677372	263.1	319.5	4772754	10.000
Noroxycodone	3.014	720940	13.5	1023.5	5591053	10.000
Nortriptyline	4.739	1439569	811095.9	784.6	5387464	10.000
O-desmethyl-tramadol	3.050	4874079	5665.2	363.2	4772754	10.000
o-Desmethylvenlafaxine	3.401	1454383	219.0	787.9	4772754	10.000
Olanzapine	4.518	1049707	318.0	41882.2	20274	10.000
Oxazepam	4.736	171717	36.5	20.9	959519	10.000
Oxycodone	3.440	1573332	82.9	813.5	5591053	10.000
Oxymorphone	2.725	847349	167.9	61.8	145283	10.000
Paroxetine	4.653	344011	132.2	20136.7	3699317	10.000
Phenazepam	4.851	589220	239.6	352.7	5030734	10.000
Phencyclidine	4.155	3239560	1002.4	186.3	7291192	10.000
Phentermine	3.299	709860	∞	∞	9362177	10.000
Phenytoin	4.262	40601	22549.7	10.4	20274	10.000
primidone	3.542	67489	470.4	31.1	5387464	10.000



AM #25 Multi-Drug Screen Results

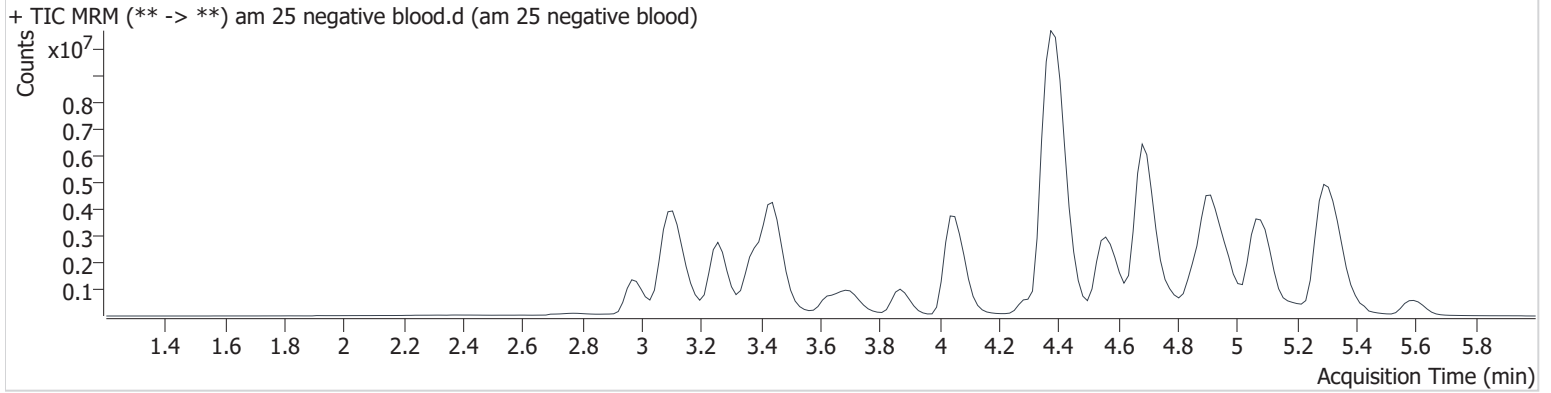
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Promethazine	5.057	6357034	2666.1	344.5	4772754	10.000
Pseudoephedrine	2.811	47875358	13420.0	3195.7	14095008	10.000
Quetiapine	5.124	4883565	907860.4	574643.9	26720816	10.000
Risperidone	4.863	5155797	419.1	335.2	317040	10.000
Sertraline	5.009	792133	949.3	∞	3699317	10.000
Sufentanil	5.276	338993	51636.8	45730.8	14362954	10.000
Tapentadol	3.634	3014432	1620.5	1186.8	3571571	10.000
Temazepam	4.888	1257935	1221.9	63.0	5030734	10.000
Topiramate	3.960	9617	3467.5	1362.1	30813	10.000
Tramadol	3.662	4903163	230.0	21.2	4772754	10.000
Trazodone	5.323	5230715	111853.2	157363.9	23188465	10.000
Venlafaxine	4.059	4292424	5939.1	184.3	3699317	10.000
Zaleplon	4.519	546101	479.7	276.7	26720816	10.000
Zolpidem	4.703	6225184	2657.1	386.5	26720816	10.000
Zopiclone	4.787	344020	972.1	76108.8	1669021	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\multidrugscreen.batch.bin
Calibration Last Update 9/7/2022 3:51:24 PM

Instrument	69679	Data File	am 25 negative blood.d
Type	Sample	Sample	am 25 negative blood
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-A6	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/7/2022 2:48:20 PM		
Sample Info.			

Sample Chromatogram

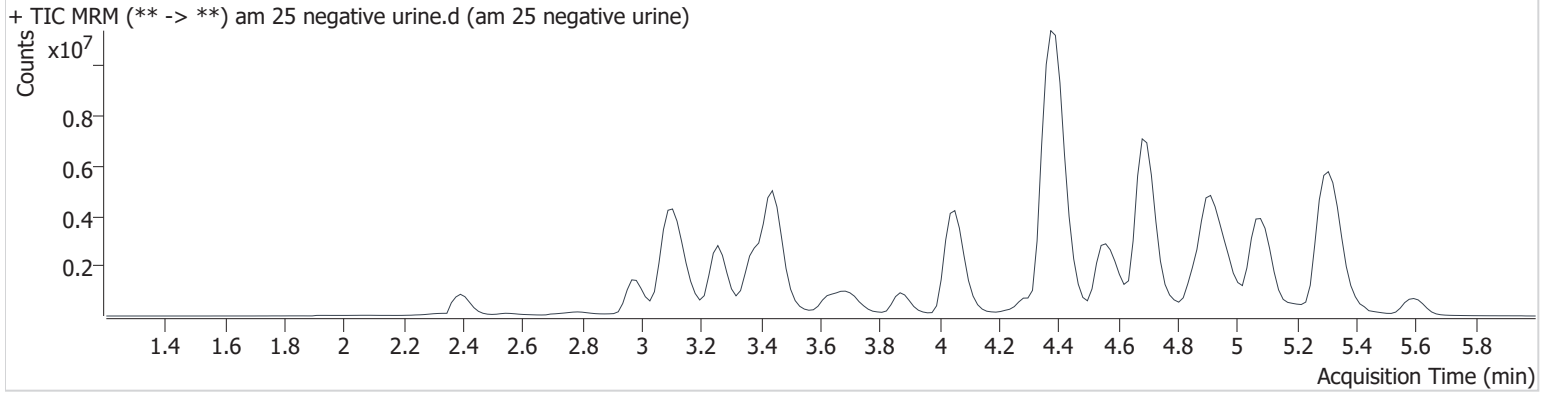


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\multidrugscreen.batch.bin
Calibration Last Update 9/7/2022 3:51:24 PM

Instrument	69679	Data File	am 25 negative urine.d
Type	Sample	Sample	am 25 negative urine
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-A2	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/7/2022 1:05:53 PM		
Sample Info.			

Sample Chromatogram

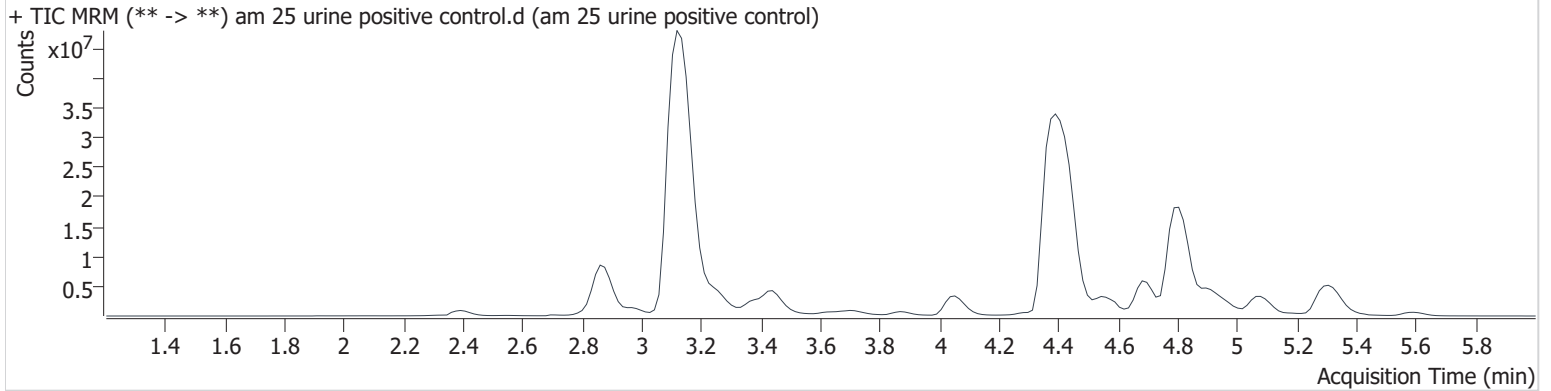


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\multidrugscreen.batch.bin
Calibration Last Update 9/7/2022 3:51:24 PM

Instrument	69679	Data File	am 25 urine positive control.d
Type	Sample	Sample	am 25 urine positive control
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-B2	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/7/2022 1:12:44 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.810	46617696	622.7	1177.3	682625	673.363
Diphenhydramine	4.416	114776503	56246.0	29529.0	27151857	254.320
Methamphetamine	3.146	94884494	∞	∞	10441123	212.582
Morphine	2.865	12994207	∞	49390.9	205361	486.067



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

Extraction Date: 9/7/22 Analyst: Anne Nord

Plate lot#: 220309 Plate retest date: 9/09/22

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:** 7722 **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.

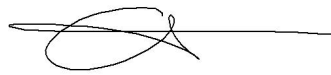
Analytic:

- 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:



Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): TOX-22-02

Date of Request:
03/02/2022

Requestor/Discipline:
Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #:
Toxicology AM #25, AM #26, and AM #27, Revision 13

Temporary or Permanent Deviation:
Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc):

Deviation will remain in place until the change is made in the next method revision.

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual):

Toxicology AM #25 3.3.1.1 Internal standards are prepared by the ToxBBox plate manufacturer and contained on the 96 well plate. If the run contains urine samples, a positive external urine control must also be run.

Toxicology AM #26 3.3.2 A negative control will be run with each extraction. If the run contains urine samples, a negative urine control and external positive urine control must also be included.

Toxicology AM #27 3.3.2 A negative control will be run with each extraction. If the run contains urine samples, a negative urine control and positive external urine control will also be included in the run.

The deviation is to include the option of using an internal urine control in lieu of an external urine control.



Technical Justification for Analytical Method Deviations:

Internal controls serve the same purpose as external controls but also helps to avoid the possible issues that can occur with using external controls (incorrect spiking, incorrect preparation, evaporation of compounds, etc.). If these errors occur, runs need to be repeated and this wastes time, sample, and supplies.

Technical Review

Departure approved
Comments:

Departure Not Approved
Comments:



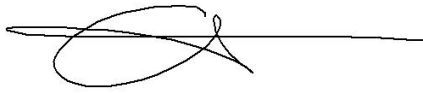
Approver: Rachel Cutler
Title: Lab Manager

Date: 3/2/22

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 3/2/2022





	1	2	3	4	5	6
a	cal 1	Internal urine	1951-2	2000-3		
b	cal 2	negative blood	1986-1	2014-1		
c	cal 3	1790-1	1991-1	2015-3		
d	cal 4	1902-1	1994-3	1924-3		
e	Cal 5	1918-1	1997-1			
f	cal 6	1922-1	negative urine			
g	cal 7	1923-1	1913-2			
h	Internal control (blood)	1926-1	1944-1			

Plate position 3

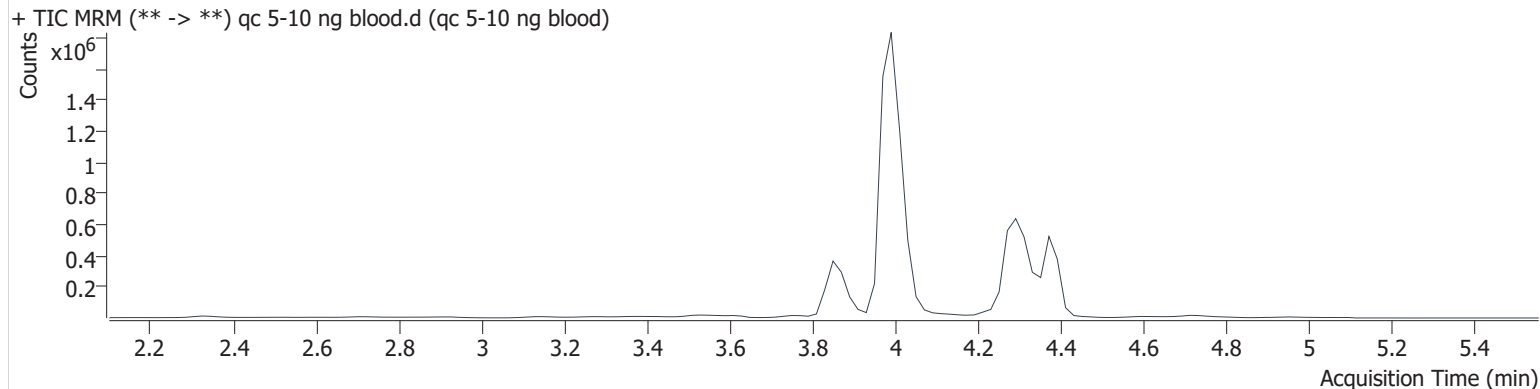
c2022-____-__

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:56:52 PM		
Sample Info.			

Sample Chromatogram



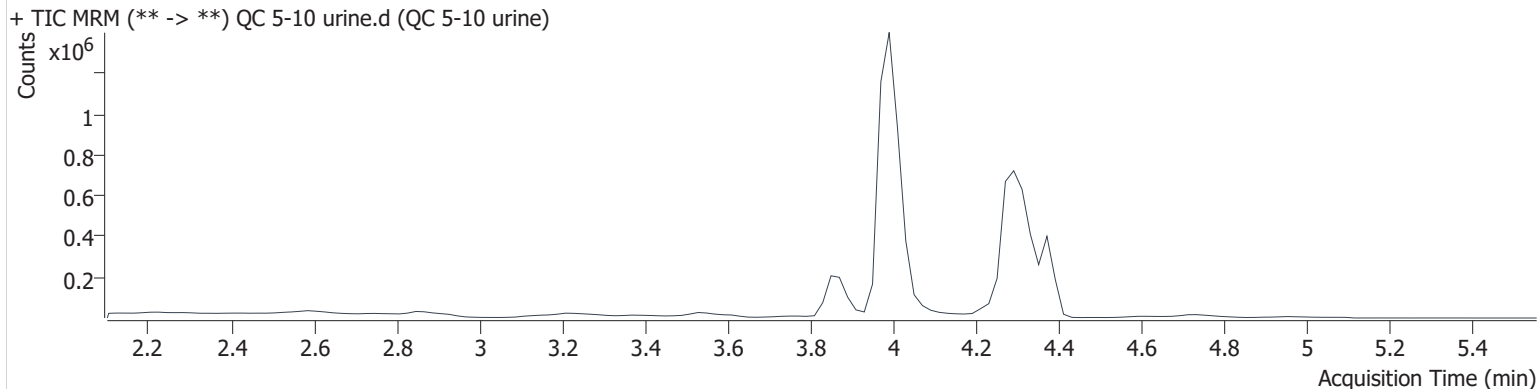
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	41161	1177521	4.936 ng/ml
THC-COOH	3.872	148323	832015	14.959 ng/ml
THC-OH	3.999	45107	6212362	4.652 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 AM

Instrument	69679	Data File	QC 5-10 urine.d
Type	Sample	Sample	QC 5-10 urine
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A2	Comment	
Injection Volume	5		
Acq. Date-Time	9/7/2022 5:03:28 PM		
Sample Info.			

Sample Chromatogram



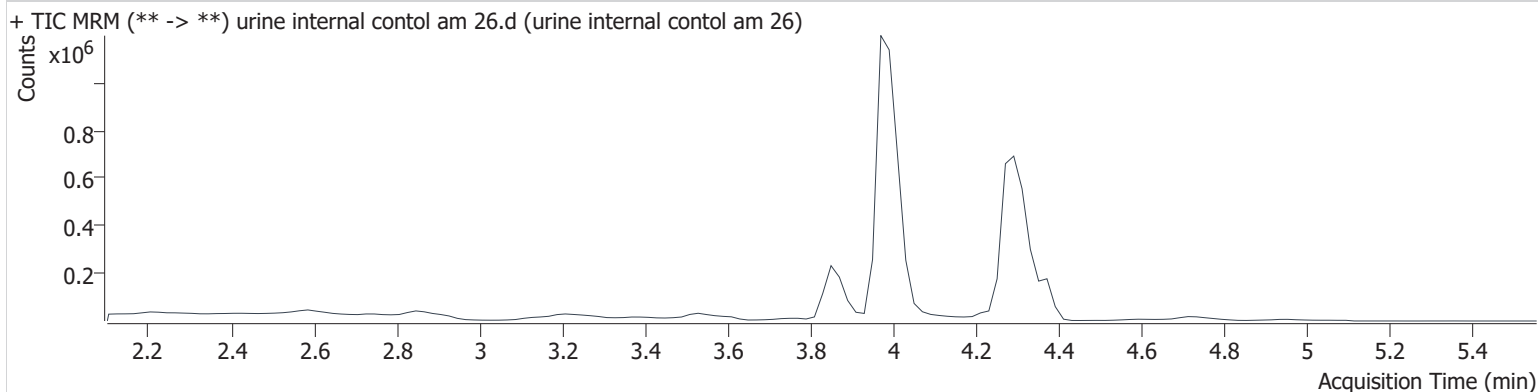
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	22578	699104	4.577 ng/ml
THC-COOH	3.872	88696	492417	15.110 ng/ml
THC-OH	3.999	33648	4751459	4.543 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 AM

Instrument	69679	Data File	urine internal contol am 26.d
Type	Sample	Sample	urine internal contol am 26
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A2	Comment	
Injection Volume	5		
Acq. Date-Time	9/7/2022 7:28:59 PM		
Sample Info.			

Sample Chromatogram



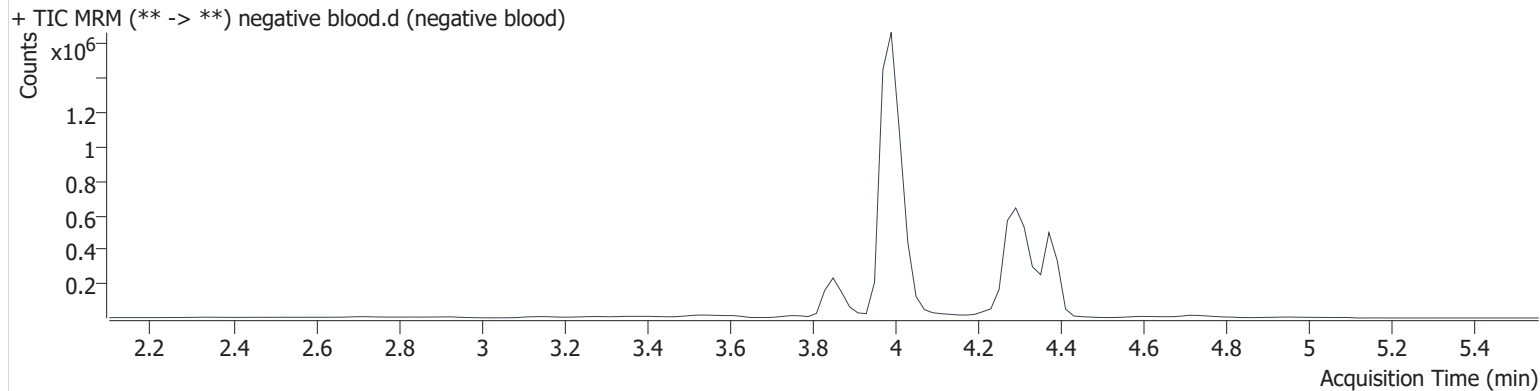
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	9514	301087	4.483 ng/ml
THC-COOH	3.852	93572	519339	15.114 ng/ml
THC-OH	3.999	27214	4100021	4.273 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 5:10:07 PM		
Sample Info.			

Sample Chromatogram

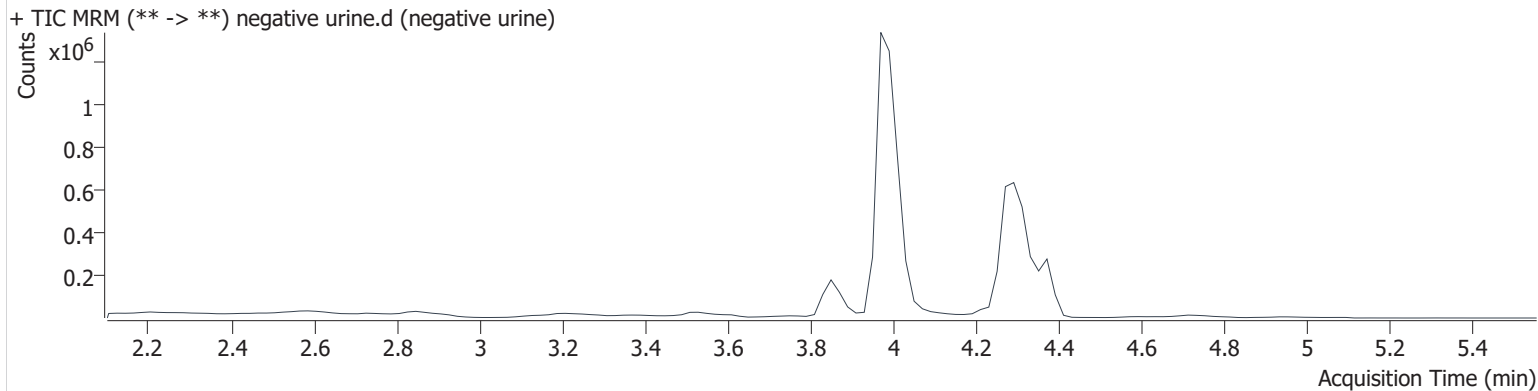


AM #26 Cannabinoids Screen Results

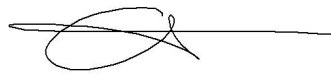
Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 AM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F3	Comment	
Injection Volume	5		
Acq. Date-Time	9/7/2022 6:29:33 PM		
Sample Info.			

Sample Chromatogram

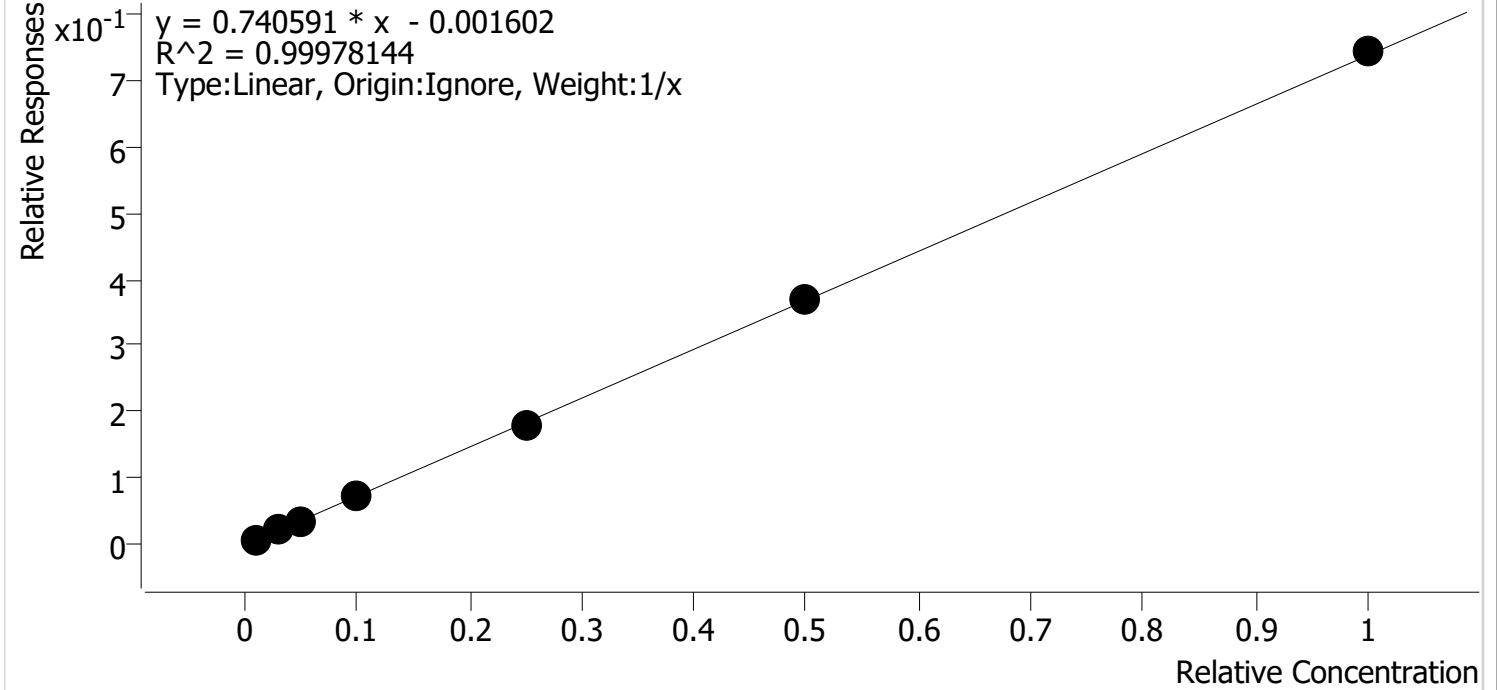


Compound Calibration Report



Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Last Cal. Update 9/8/2022 7:45 AM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-d3

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



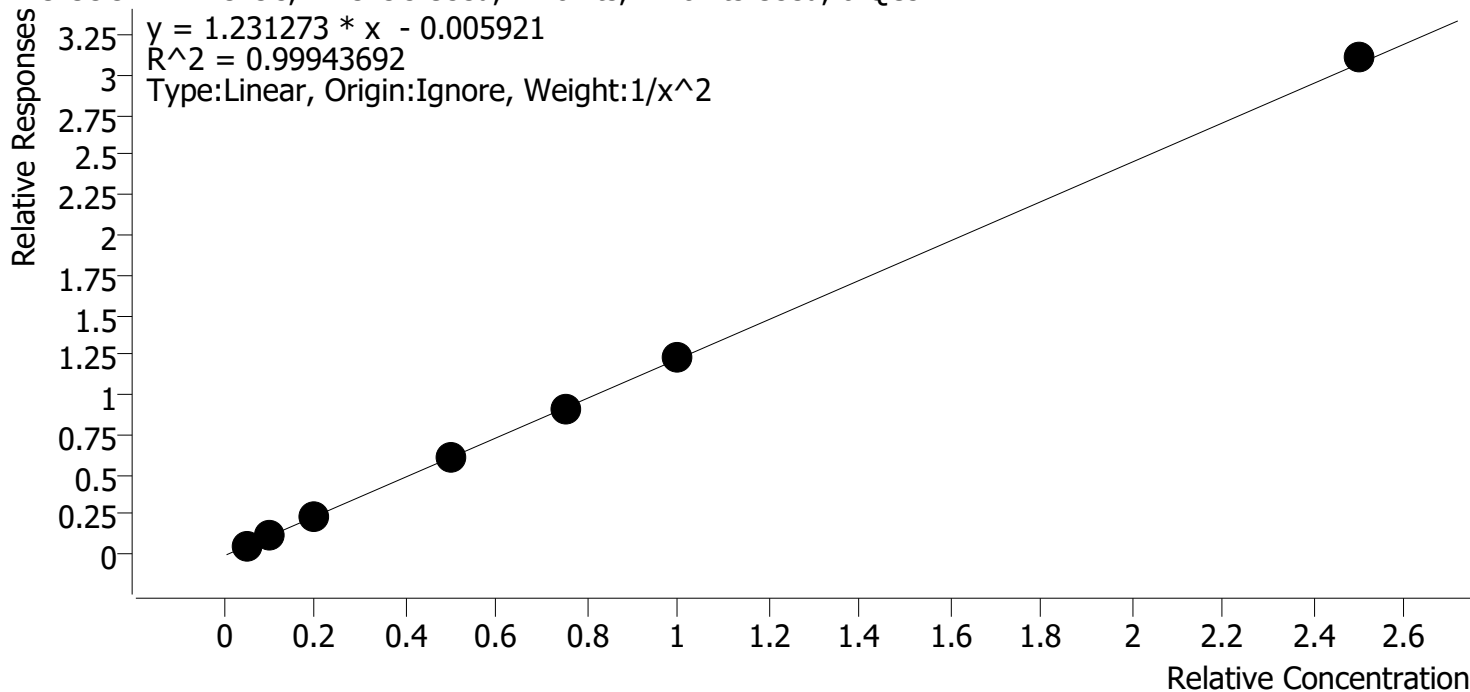
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	109.2
cal 2	2	✓	3.0	2.9	97.5
cal 3	3	✓	5.0	4.8	97.0
cal 4	4	✓	10.0	9.7	97.1
cal 5	5	✓	25.0	24.6	98.3
cal-6	6	✓	50.0	50.1	100.2
cal-7	7	✓	100.0	100.8	100.8

Compound Calibration Report



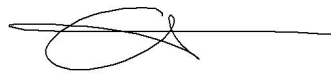
Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Last Cal. Update 9/8/2022 7:45 AM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-d9

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



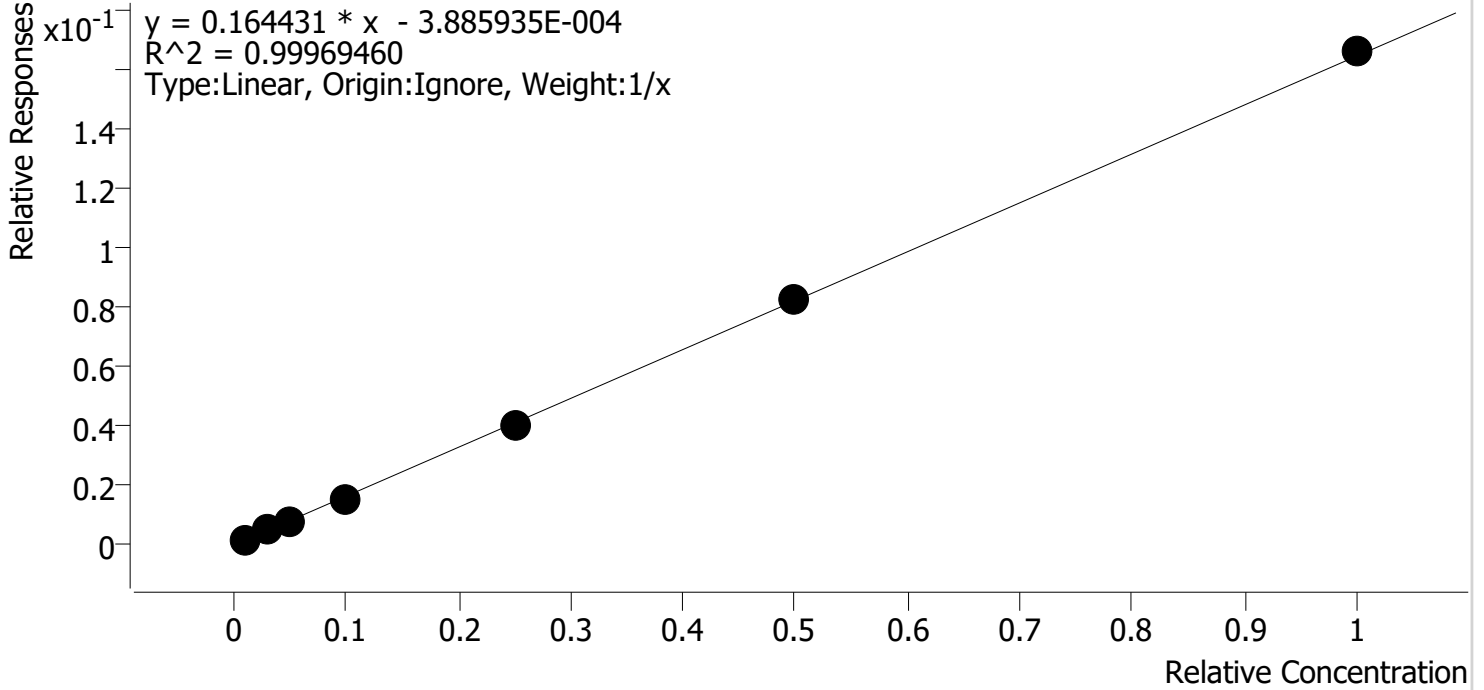
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.6
cal 2	2	✓	10.0	9.8	98.1
cal 3	3	✓	20.0	19.3	96.5
cal 4	4	✓	50.0	50.3	100.7
cal 5	5	✓	75.0	75.2	100.3
cal-6	6	✓	100.0	101.6	101.6
cal-7	7	✓	250.0	253.1	101.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Last Cal. Update 9/8/2022 7:45 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



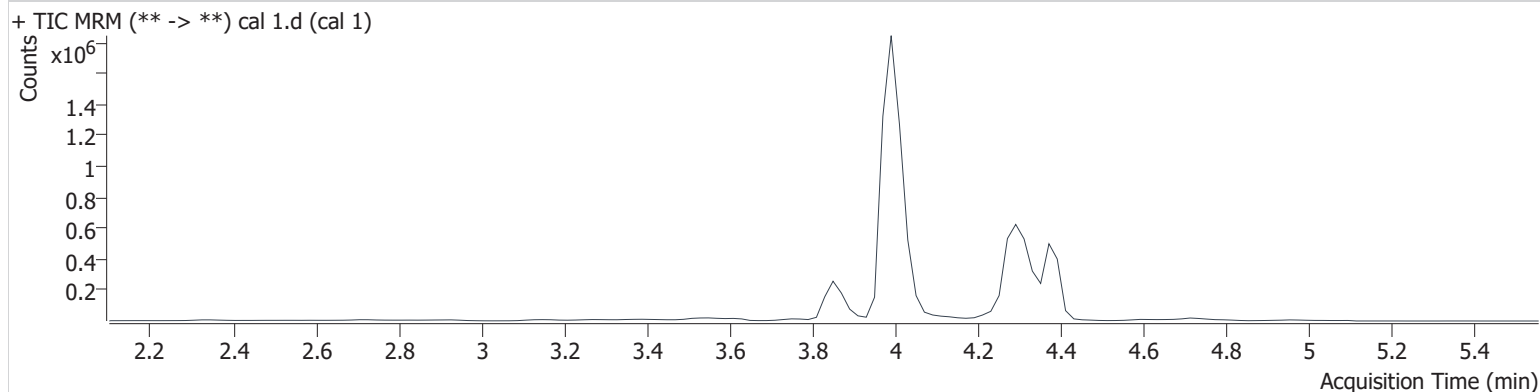
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	110.7
cal 2	2	✓	3.0	2.9	97.0
cal 3	3	✓	5.0	4.9	97.2
cal 4	4	✓	10.0	9.5	95.3
cal 5	5	✓	25.0	24.7	98.9
cal-6	6	✓	50.0	50.0	100.0
cal-7	7	✓	100.0	100.9	100.9

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:10:31 PM		
Sample Info.			

Sample Chromatogram



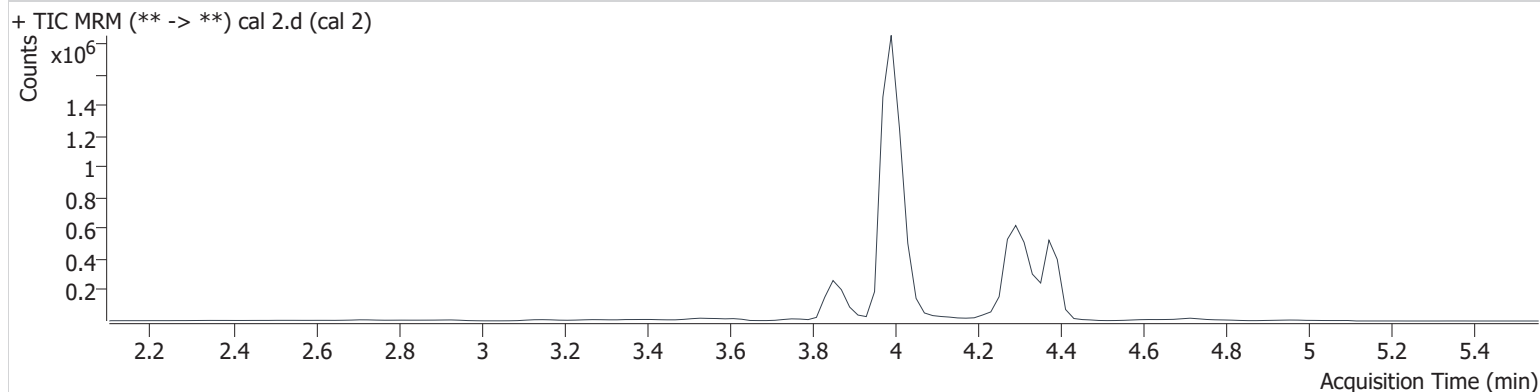
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	7541	1162829	1.092 ng/ml Low
THC-COOH	3.872	38569	680925	5.081 ng/ml Low
THC-OH	3.999	9125	6374323	1.107 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:17:09 PM		
Sample Info.			

Sample Chromatogram



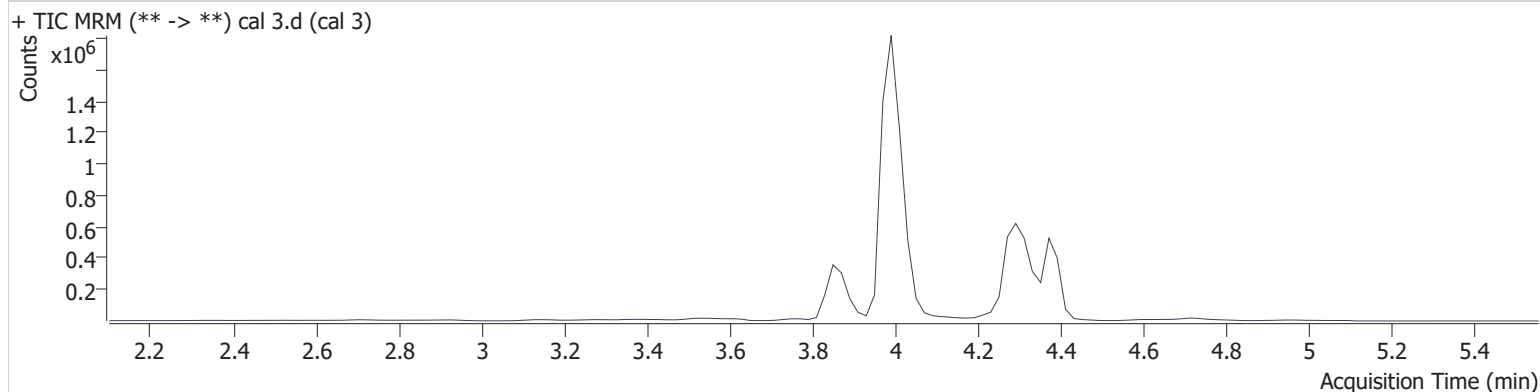
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	24362	1214776	2.924 ng/ml Low
THC-COOH	3.872	78397	682424	9.811 ng/ml Low
THC-OH	3.999	27752	6309389	2.911 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:23:47 PM		
Sample Info.			

Sample Chromatogram



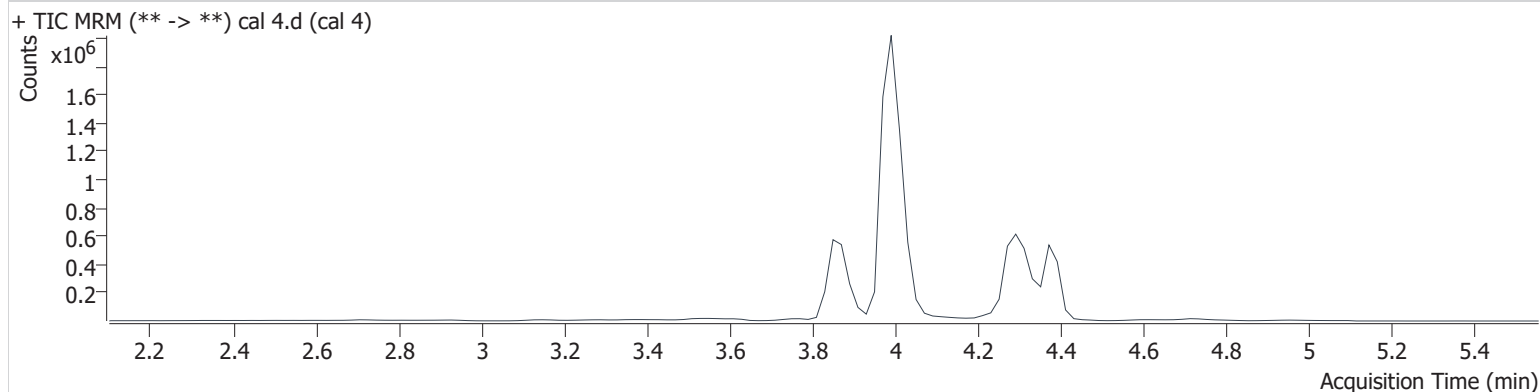
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	40672	1185614	4.848 ng/ml
THC-COOH	3.872	174693	753671	19.306 ng/ml
THC-OH	3.999	45444	5979556	4.858 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:30:25 PM		
Sample Info.			

Sample Chromatogram



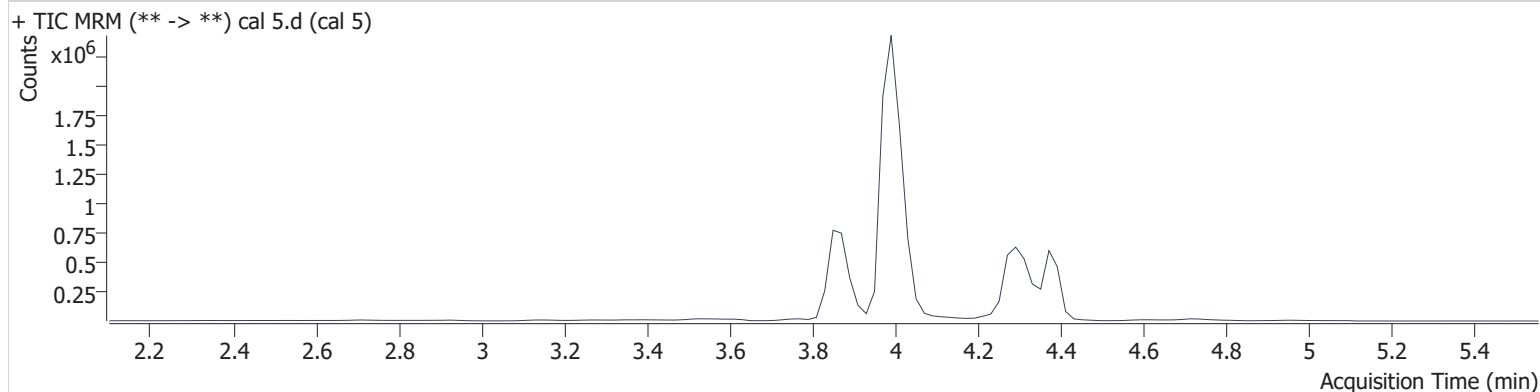
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	83303	1184714	9.711 ng/ml
THC-COOH	3.872	476771	776660	50.338 ng/ml
THC-OH	3.999	95386	6239575	9.533 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:37:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	211222	1170404	24.585 ng/ml
THC-COOH	3.872	737372	801477	75.202 ng/ml
THC-OH	3.999	253894	6303661	24.731 ng/ml

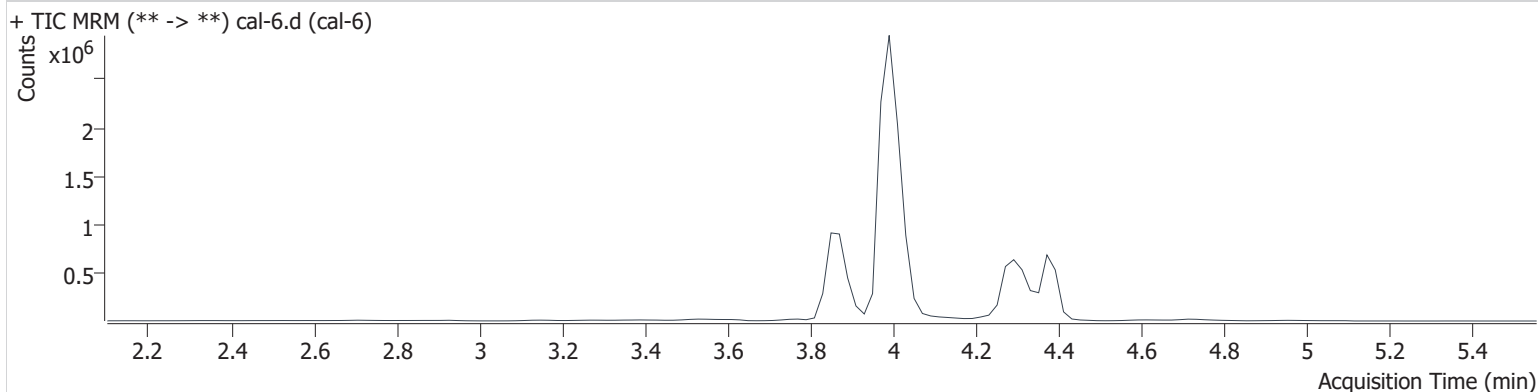
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:43:39 PM		

Sample Info.

Sample Chromatogram



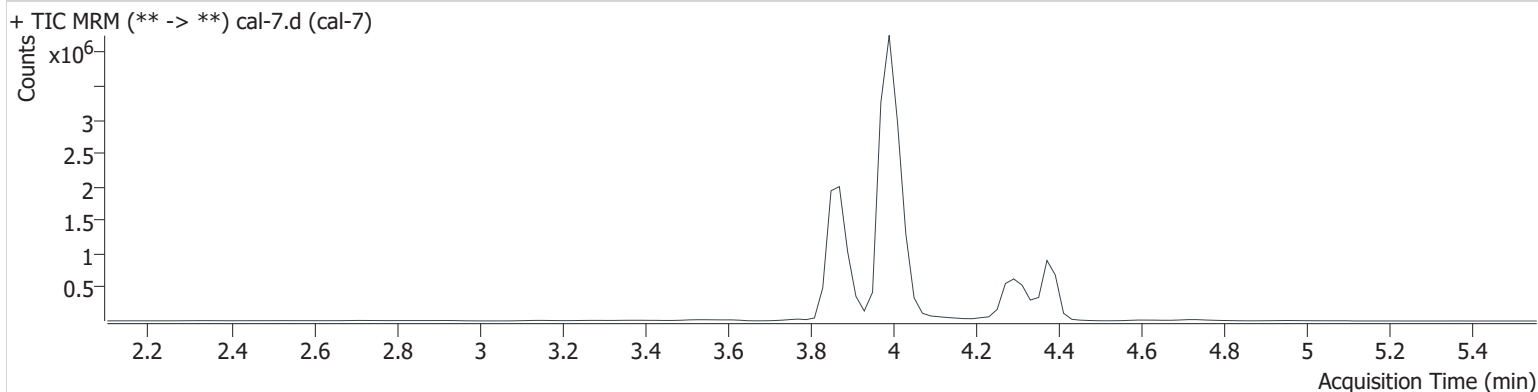
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	419461	1135831	50.082 ng/ml
THC-COOH	3.852	950181	763520	101.553 ng/ml
THC-OH	3.999	492229	6017994	49.979 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\090722\QuantResults\cann.batch.bin
Calibration Last Update 9/8/2022 7:45:16 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	9/7/2022 4:50:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	853425	1146142	100.759 ng/ml
THC-COOH	3.852	2416300	776858	253.094 ng/ml
THC-OH	3.999	1001382	6051075	100.879 ng/ml