**Worklist: 6073**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2022-1738	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1765	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1767	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1767	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-1775	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1805	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1817	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1818	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1836	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1839	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1842	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1858	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1860	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-1869	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 08/23/22 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:

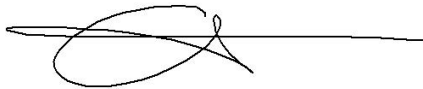
Departure Not Approved
Comments:

Approver: Rachel Cutler
Title: Laboratory Manager

Date: 2/10/2022


Quality Review

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



	1	2	3	4	5	6	7	8	9	10	11	12
A					1767-1	1858-3						
B	cal 1				1775-4	1860-1						
C					1805-1	1869-1						
D					1817-1							
E					1818-1	urine control						
F				negative blood	1836-1	1767-2						
G				1738-1	1839-1	negative urine						
H				1765-2	1842-1							

C2022-____-__



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

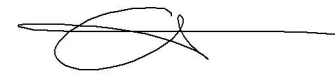
AM 25/28 control 500 ul working solution (7722) in 4500 ul negative urine (1000ng/mL Expected concentration)

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

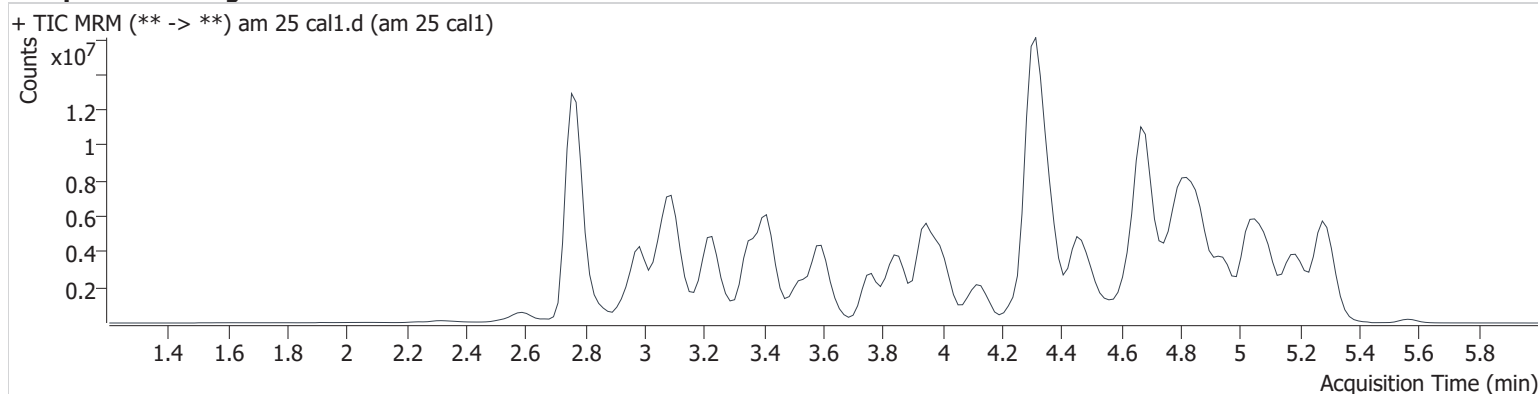
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\mdq.batch.bin
Calibration Last Update 8/24/2022 10:52:00 AM

Instrument	69679	Data File	am 25 cal1.d
Type	Cal	Sample	am 25 cal1
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-B1	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/23/2022 10:38:02 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.878	646008	1408.0	22.7	954612	10.000
6-MAM	3.378	35321	24205.0	160.3	943073	10.000
7-aminoclonazepam	3.644	326059	254.5	108396.6	1176974	10.000
7-aminoflunitrazepam	3.859	440234	3299.5	184.8	1176974	10.000
9-Hydroxyrisperidone	4.496	4615010	11176.5	48570.5	1176974	10.000
Acetyl Fentanyl	4.625	327437	168.2	51965.9	12339731	10.000
Acetyl Norfentanyl	2.931	237887	1729.0	500.6	12339731	10.000
a-hydroxyalprazolam	4.716	70888	∞	34765.1	1176974	10.000
alpha-hydroxymidazolam	4.776	1421592	286.0	500.0	1176974	10.000
alpha-PHP	4.310	1974623	773.5	485.2	4988369	10.000
alpha-PVP	4.004	2878057	663.7	285.5	4988369	10.000
Alprazolam	4.795	915875	242.8	251.3	954612	10.000
Amitriptyline	4.891	1154211	211.5	160.6	5077825	10.000
Amphetamine	2.996	2043432	271.6	3131.4	4988369	10.000
Benzoylcegonine	3.460	83087	55617.5	14.6	150253	10.000
Brompheniramine	4.379	84511	88260.6	2150.5	38487271	10.000
Buprenorphine	5.577	23183	7633.9	162.6	674914	10.000
Bupropion	4.372	2556140	923.5	1454.1	9225556	10.000
Carbamazepine	4.372	3587506	∞	2196.9	24124	10.000
Carisoprodol	4.309	484993	310061.0	118.3	1872571	10.000
Chlordiazepoxide	4.980	509007	∞	∞	4293496	10.000
Chlorpheniramine	4.261	4380434	33669.7	1084192.6	4120288	10.000
Chlorpromazine	5.236	1551188	515973.1	1476.8	6296903	10.000
Citalopram	4.378	2118440	192.1	28757.8	4120288	10.000
Clomipramine	5.190	2041982	8801.0	431.8	4120288	10.000
Clonazepam	4.656	201093	174.9	29454.0	4293496	10.000
Clonazolam	4.530	295353	91575.4	55384.5	4293496	10.000
clozapine	5.051	4699030	1876218.1	975716.5	14724933	10.000
Cocaethylene	4.133	3172338	916.5	372.2	17582931	10.000
Cocaine	3.981	3709501	308.8	133210.3	17582931	10.000
Codeine	3.366	295515	142989.9	43414.1	4155145	10.000
Cyclobenzaprine	4.753	2354156	5834.1	133.7	5077825	10.000
Desipramine	4.647	3470570	1551958.3	891.3	5077825	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextromethorphan	4.338	1500430	453.2	123979.8	7135249	10.000
Dextrorphan	3.509	1499692	5125.0	3847.0	7135249	10.000
Diazepam	5.073	664871	1232.3	1092.3	4293496	10.000
Dihydrocodeine	2.999	805259	590.8	1060.6	38487271	10.000
Diphenhydramine	4.340	6419918	1594.3	264.9	38487271	10.000
Doxepin	4.584	1488969	1058.3	265.4	17077621	10.000
Doxylamine	3.846	6652499	∞	∞	1916191	10.000
Duloxetine	4.614	38879	6787.4	282.7	2507543	10.000
EDDP	4.260	212895	37512.3	43134.7	517921	10.000
Estazolam	4.705	1577756	1907.7	2014.8	4293496	10.000
Etizolam	4.776	121061	64916.4	161412.6	4293496	10.000
Fentanyl	4.838	268015	103.9	50580.8	12339731	10.000
Flualprazolam	4.624	374070	153592.2	33341.9	4293496	10.000
Flunitrazepam	4.764	715297	281364.0	148417.2	4293496	10.000
Fluoxetine	4.565	1305291	15145.3	27700.1	2507543	10.000
Flurazepam	4.850	2374021	1754642.9	179330.4	4293496	10.000
Hydrocodone	3.381	107263	64.6	104.8	4155145	10.000
Hydromorphone	2.865	657800	612.5	847.3	4155145	10.000
hydroxyzine	5.171	4238011	2070.6	868656.6	7135249	10.000
Imipramine	4.814	4277403	9547.1	1020.4	5077825	10.000
Ketamine	4.372	1992277	275.5	65.5	7135249	10.000
Lamotrigine	3.755	155911	567.6	24087.2	4120288	10.000
Levamisole	3.544	1670044	359337.7	1123.5	7135249	10.000
Levetireacetam	2.615	303210	328.3	124.7	4120288	10.000
Lorazepam	4.610	26190	456.3	37.8	4293496	10.000
Maprotiline	4.661	410731	269.5	37.3	5077825	10.000
MDA	3.116	1604668	1190.2	241.5	14578231	10.000
MDEA	3.359	2593206	1359.2	235.3	14578231	10.000
MDMA	3.207	3027903	627.3	509.0	14578231	10.000
Meperidine	3.956	1659287	518.3	1056.6	7135249	10.000
Meprobamate	3.728	89847	298.9	30.8	1872571	10.000
Methadone	4.642	3846417	707.4	1797.7	517921	10.000
Methamphetamine	3.102	7328795	∞	∞	14578231	10.000
Methocarbamol	3.680	101930	286.8	503.5	38487271	10.000
Methylphenidate	3.773	6687271	4474.3	508.7	7135249	10.000
Metoprolol	3.554	508805	465.0	4416.4	7135249	10.000
Midazolam	4.945	510502	145967.4	169453.5	4293496	10.000
Mirtazapine	4.816	2274562	5566.0	2216.7	7135249	10.000
Mitragynine	4.879	411278	97195.1	591456.8	7135249	10.000
Morphine	2.683	190368	∞	1226.0	135458	10.000
Norbuprenorphine	4.021	36205	11440.4	10818.2	674914	10.000
Nordiazepam	4.922	444390	139392.2	1833.8	4293496	10.000
Norfentanyl	3.435	3580089	1206.3	558.5	15740766	10.000
Norhydrocodone	3.032	65207	55.5	108.2	4155145	10.000
norketamine	4.296	291724	106.5	1293.5	7135249	10.000
Normeperidine	3.742	1675560	554.8	1163.0	4120288	10.000
Noroxycodone	2.969	807689	∞	123.0	5543618	10.000
Nortriptyline	4.709	1249148	287790.7	1154.3	5077825	10.000
O-desmethyl-tramadol	2.990	5017916	5838.0	605.1	4120288	10.000
o-Desmethylvenlafaxine	3.371	1272763	204.8	∞	4120288	10.000
Olanzapine	4.427	710547	195462.7	55900.0	24124	10.000
Oxazepam	4.721	173784	72.3	30.1	954612	10.000
Oxycodone	3.288	1250557	261.4	910.5	5543618	10.000
Oxymorphone	2.574	945211	669.5	3512.2	135458	10.000
Paroxetine	4.608	264072	174.9	28845.7	2507543	10.000
Phenazepam	4.837	484597	384.2	77345.6	4293496	10.000
Phencyclidine	4.110	3012547	5149.4	257.4	7135249	10.000
Phentermine	3.254	635434	∞	∞	9700894	10.000
Phenytoin	4.248	42462	26166.1	5.9	24124	10.000
primidone	3.528	72225	29346.7	16.1	5077825	10.000



AM #25 Multi-Drug Screen Results

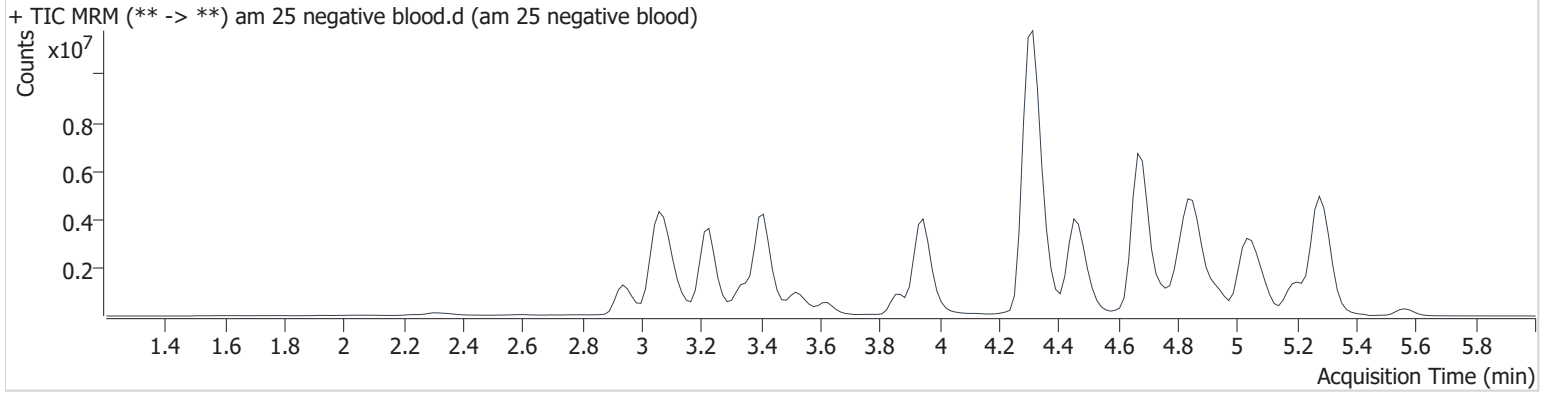
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Promethazine	4.966	6095284	7799.3	216.9	4120288	10.000
Pseudoephedrine	2.766	45865835	9577.9	13125.4	14578231	10.000
Quetiapine	5.094	5324796	1249917.5	∞	26986293	10.000
Risperidone	4.742	4559049	1451986.1	1041.7	676888	10.000
Sertraline	4.948	535619	∞	3801.8	2507543	10.000
Sufentanil	5.231	280123	76093.4	775.7	15740766	10.000
Tapentadol	3.589	3191136	3247.1	1286.3	4155145	10.000
Temazepam	4.873	1136546	584.3	49.2	4293496	10.000
Topiramate	3.945	8177	5148.2	960.9	24863	10.000
Tramadol	3.601	5104382	1844.0	264.2	4120288	10.000
Trazodone	5.293	3652577	13891.2	30740.8	17077621	10.000
Venlafaxine	4.014	4552485	244.4	358.7	2507543	10.000
Zaleplon	4.505	560898	154051.9	1477.8	26986293	10.000
Zolpidem	4.689	5744832	851444.9	1303.6	26986293	10.000
Zopiclone	4.758	411322	338619.6	75187.3	1916191	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\mdq.batch.bin
Calibration Last Update 8/24/2022 10:52:00 AM

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-F4	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/23/2022 10:44:55 AM		
Sample Info.			

Sample Chromatogram



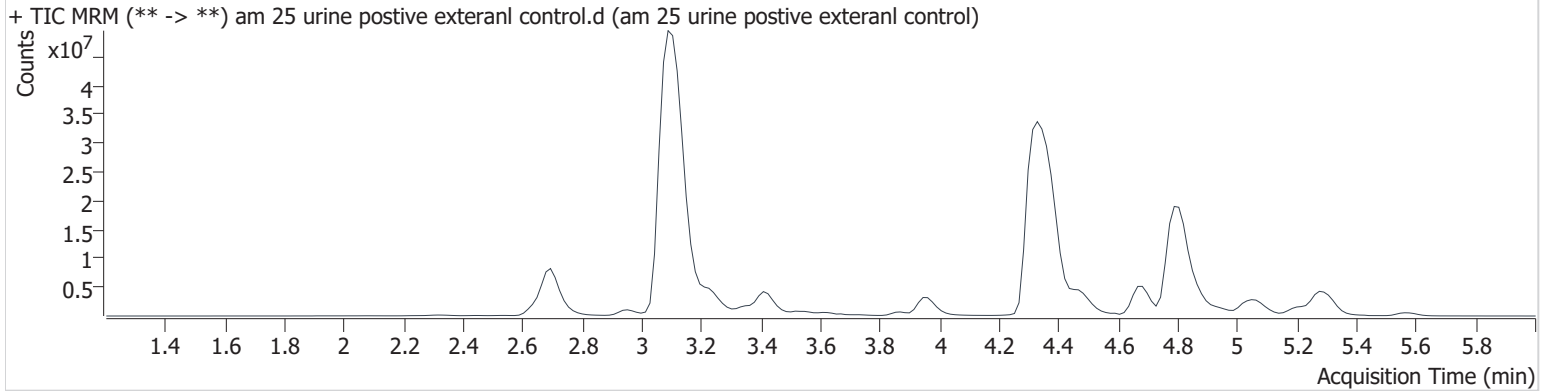
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\mdq.batch.bin
Calibration Last Update 8/24/2022 10:52:00 AM

Instrument	69679	Data File	am 25 urine positive exteranl control.d
Type	Sample	Sample	am 25 urine positive exteranl control
Acq. Method	mds713.m	Operator	Anne Nord
Sample Position	P2-E6	Comment	external ^{8/24/22} ★
Injection Volume	2.5		
Acq. Date-Time	8/23/2022 12:20:42 PM		
Sample Info.			

Sample Chromatogram



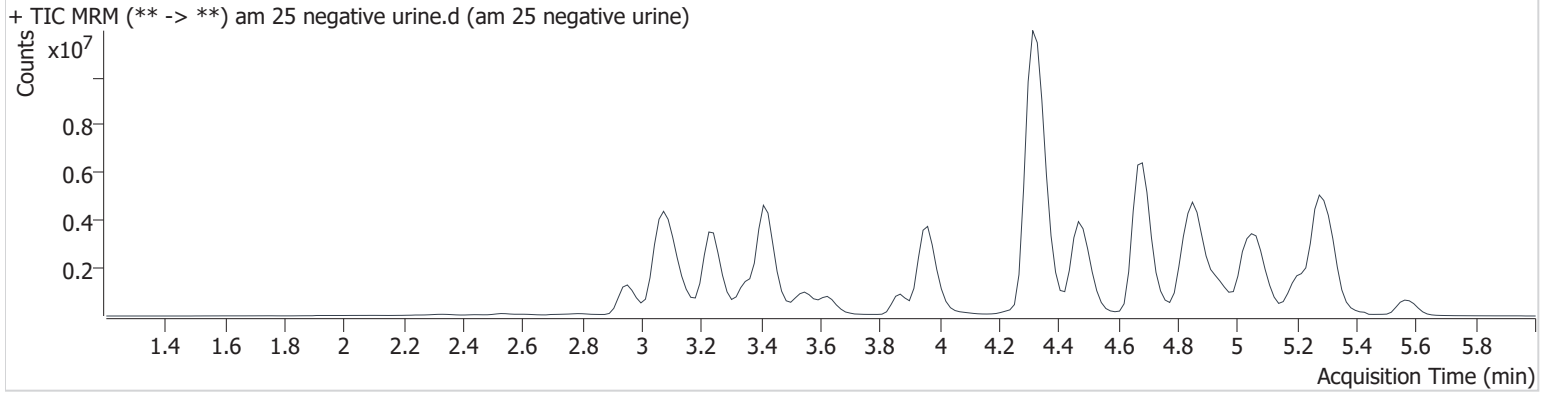
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.795	43037101	∞	2483.6	539434	831.563
Diphenhydramine	4.356	111297699	22486.3	38323.7	23609138	282.614
Methamphetamine	3.117	40993924	20220.7	∞	10214501	79.832
Morphine	2.698	12229748	45195.6	3177.8	158129	550.322

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\mdq.batch.bin
Calibration Last Update 8/24/2022 10:52:00 AM

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-G6	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/23/2022 12:41:07 PM		
Sample Info.			

Sample Chromatogram





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

Extraction Date: 8/23/22 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.

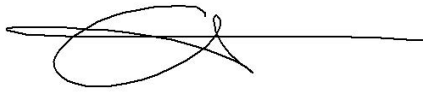
Analytic:

- 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

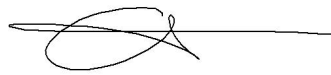
- 1. Create batch and process data.
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.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

COMMENTS:



	1	2	3	4	5	6
a	cal 1	Internal urine	1818-1	1767-2		
b	cal 2	negative blood	1836-1			
c	cal 3	1738-1	1839-1			
d	cal 4	1765-2	1842-1			
e	Cal 5	1767-1	1858-3			
f	cal 6	1775-4	1860-1			
g	cal 7	1805-1	1869-1			
h	Internal control (blood)	1817-1	negative urine			

c2022-____-__



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

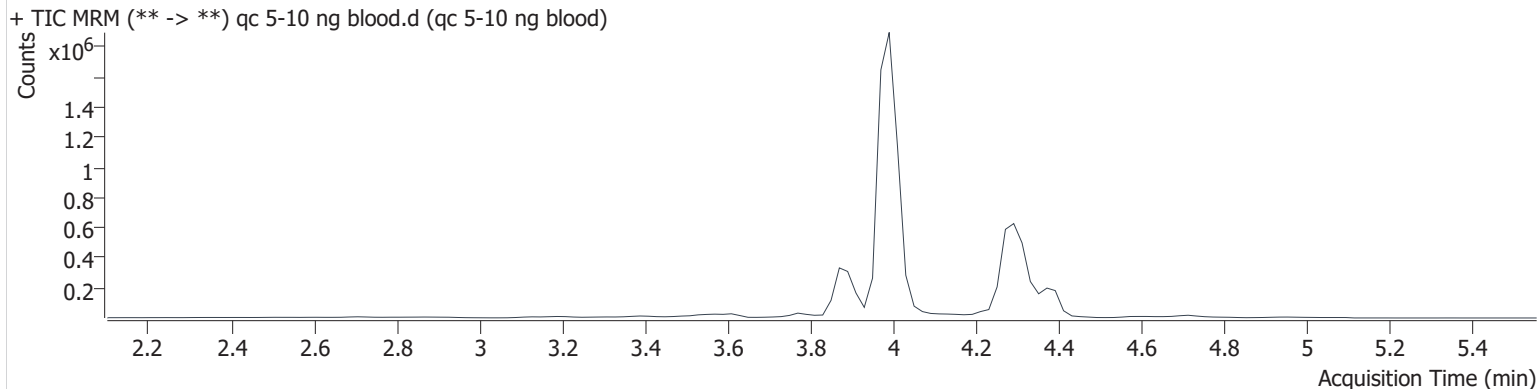


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 2:01:21 PM		
Sample Info.			

Sample Chromatogram



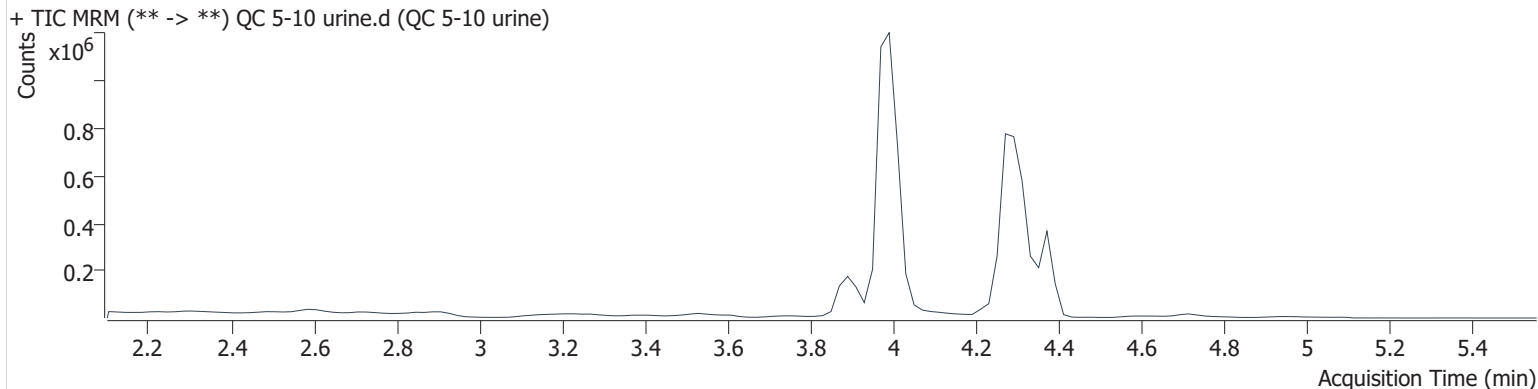
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	15886	436134	4.851 ng/ml
THC-COOH	3.890	243306	781650	15.230 ng/ml
THC-OH	3.999	42740	5985543	4.662 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 2:07:57 PM		
Sample Info.			

Sample Chromatogram



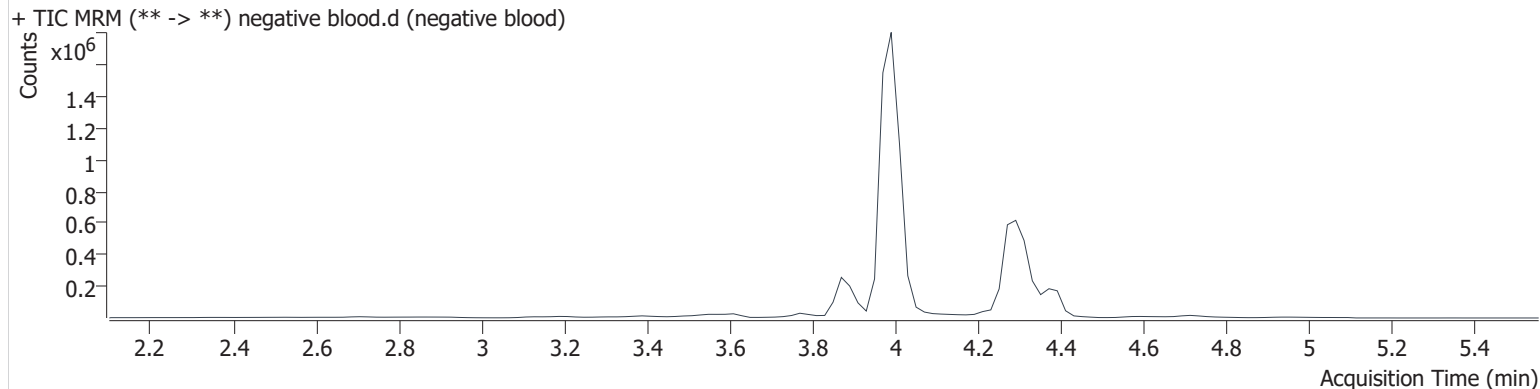
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	16619	650874	3.450 ng/ml
THC-COOH	3.910	123316	426497	14.047 ng/ml
THC-OH	3.999	28681	3982568	4.700 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 2:14:35 PM		
Sample Info.			

Sample Chromatogram

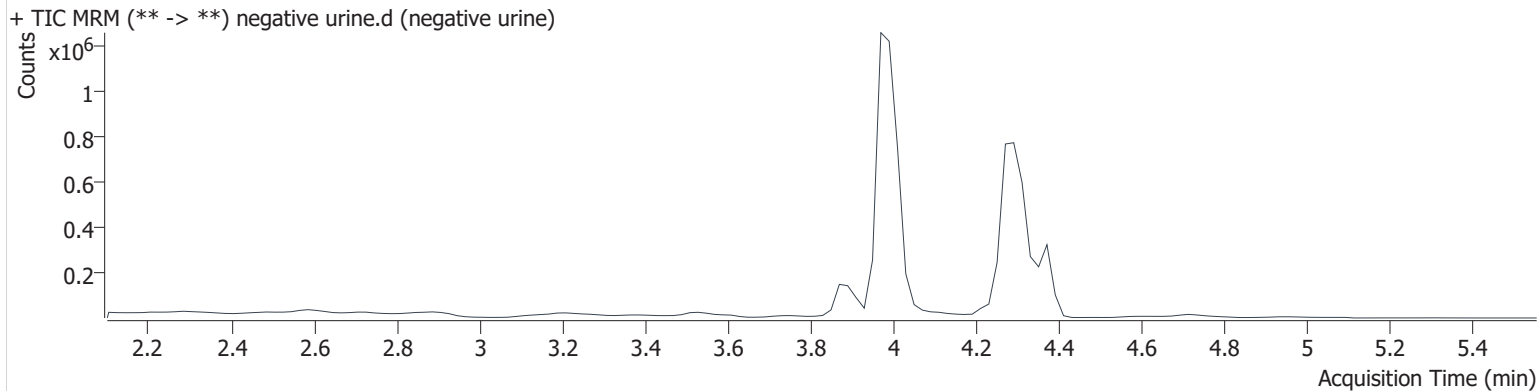


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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-H3	Comment	
Injection Volume	5		
Acq. Date-Time	8/23/2022 3:47:20 PM		
Sample Info.			

Sample Chromatogram

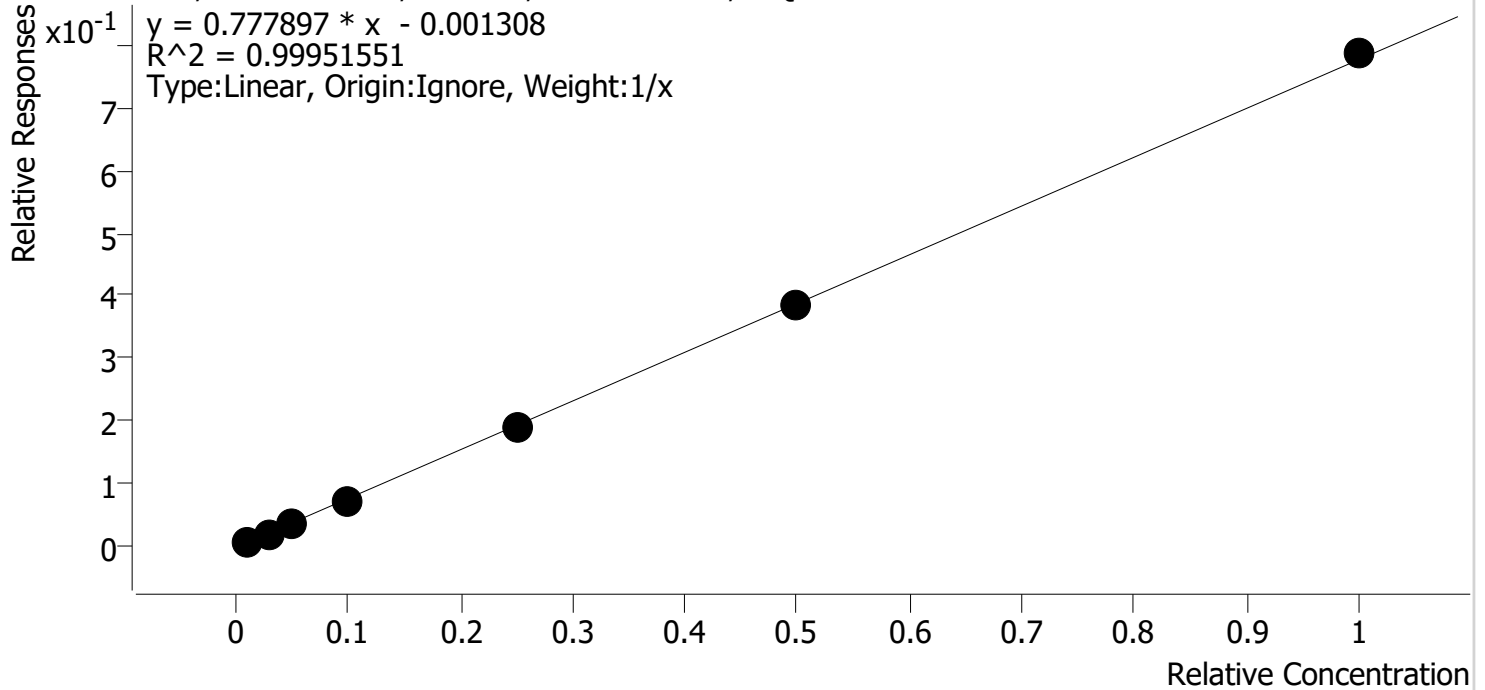


Compound Calibration Report



Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Last Cal. Update 8/23/2022 4:49 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-d3

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



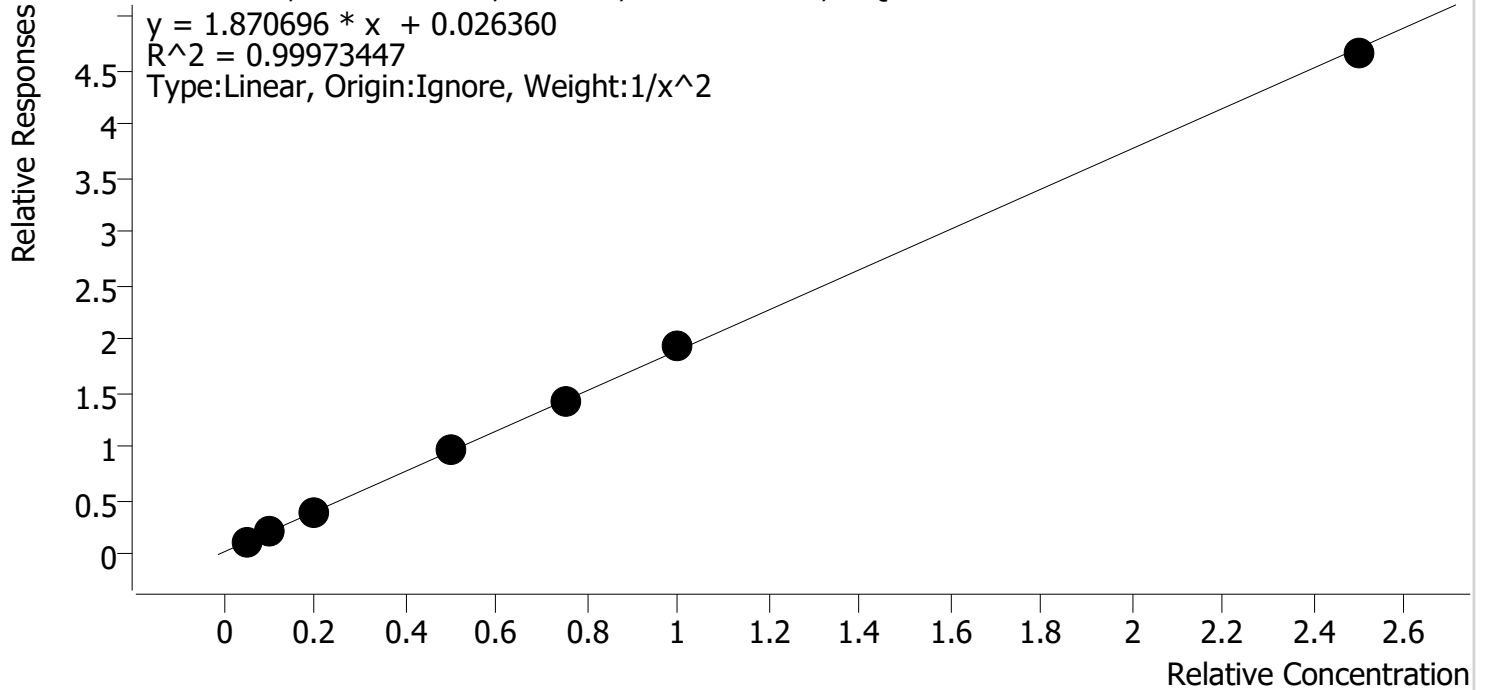
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	113.9
cal 2	2	✓	3.0	2.9	96.7
cal 3	3	✓	5.0	4.7	94.8
cal 4	4	✓	10.0	9.5	95.0
cal 5	5	✓	25.0	24.7	98.8
cal-6	6	✓	50.0	49.8	99.6
cal-7	7	✓	100.0	101.2	101.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Last Cal. Update 8/23/2022 4:49 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, 0 QCs



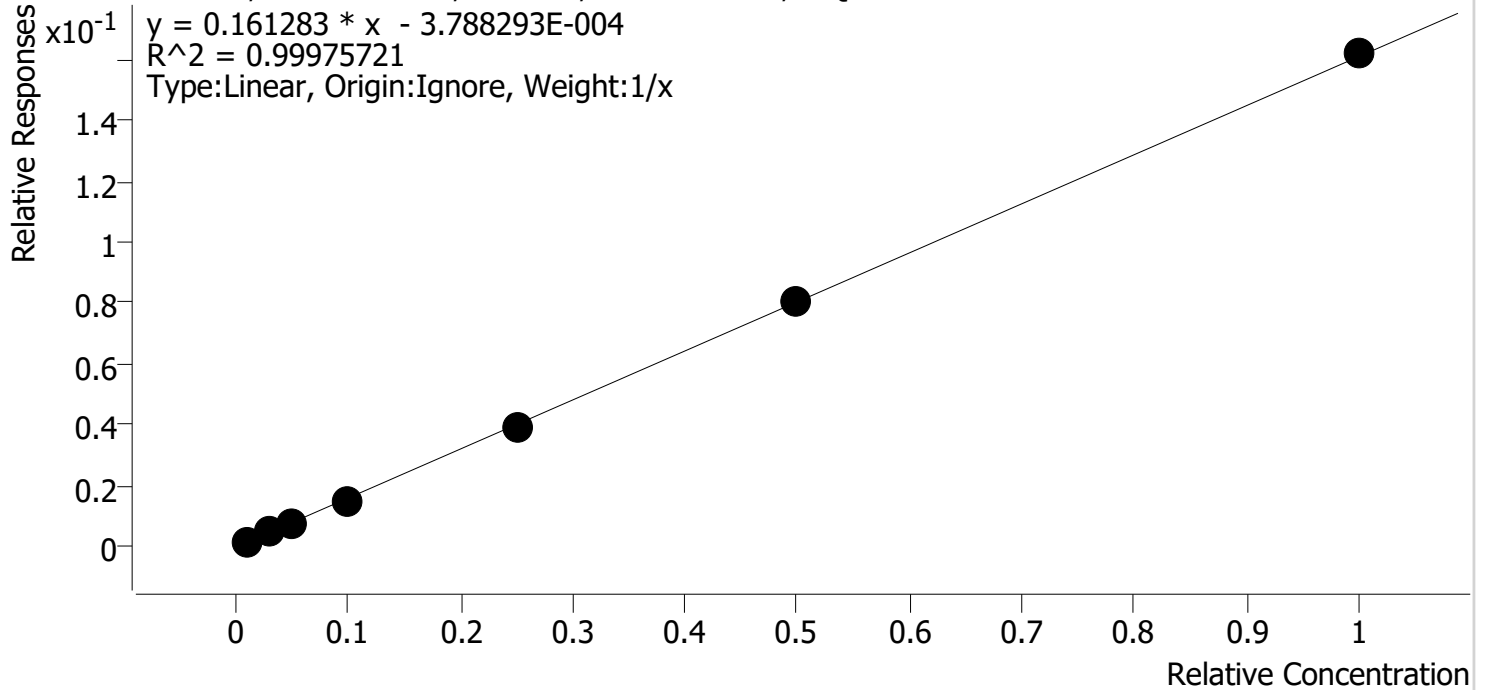
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.0
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	20.0	19.8	99.0
cal 4	4	✓	50.0	49.9	99.7
cal 5	5	✓	75.0	74.5	99.3
cal-6	6	✓	100.0	102.8	102.8
cal-7	7	✓	250.0	247.1	98.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Last Cal. Update 8/23/2022 4:49 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, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	110.4
cal 2	2	✓	3.0	2.9	96.8
cal 3	3	✓	5.0	4.8	96.3
cal 4	4	✓	10.0	9.6	96.4
cal 5	5	✓	25.0	24.8	99.0
cal-6	6	✓	50.0	50.2	100.4
cal-7	7	✓	100.0	100.6	100.6

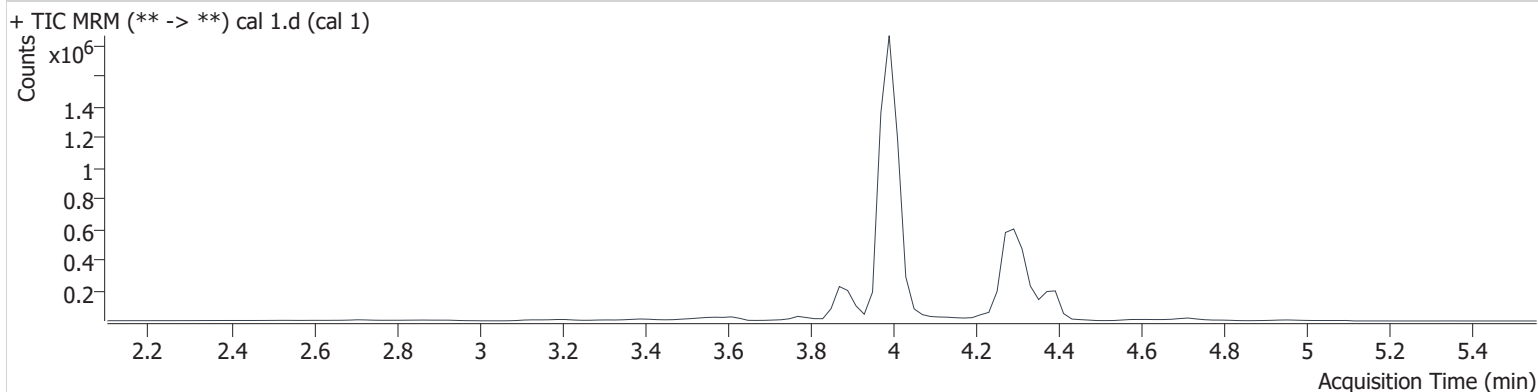
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:15:05 PM		

Sample Info.

Sample Chromatogram



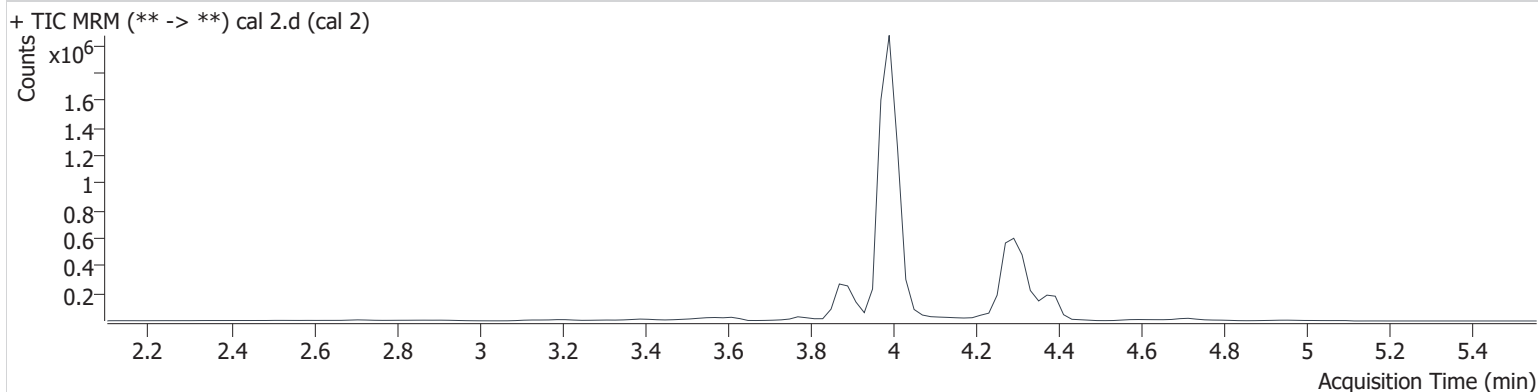
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	3401	450190	1.139 ng/ml Low
THC-COOH	3.890	76751	639987	5.002 ng/ml Low
THC-OH	3.999	8332	5941391	1.104 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:21:43 PM		
Sample Info.			

Sample Chromatogram



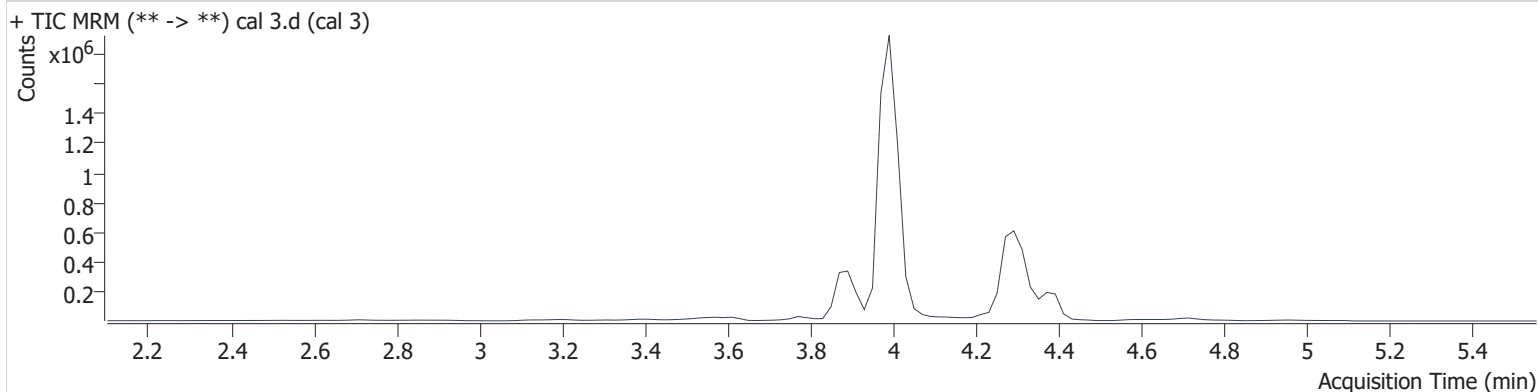
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	9197	432852	2.900 ng/ml Low
THC-COOH	3.890	153917	718879	10.036 ng/ml
THC-OH	3.999	27767	6448955	2.904 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:28:19 PM		
Sample Info.			

Sample Chromatogram



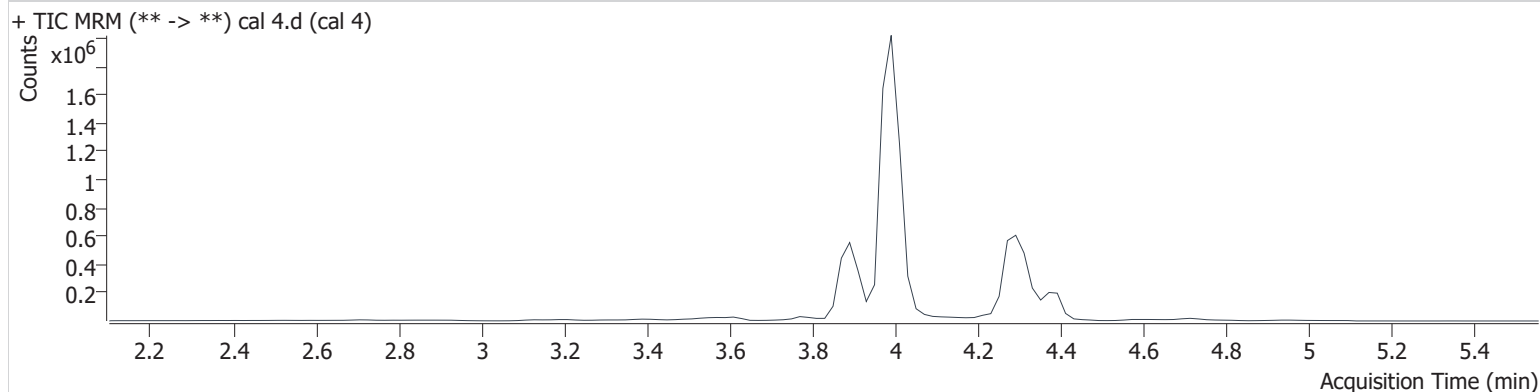
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	15386	432749	4.739 ng/ml
THC-COOH	3.890	302926	763583	19.798 ng/ml
THC-OH	3.999	43907	5942113	4.816 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:34:56 PM		
Sample Info.			

Sample Chromatogram



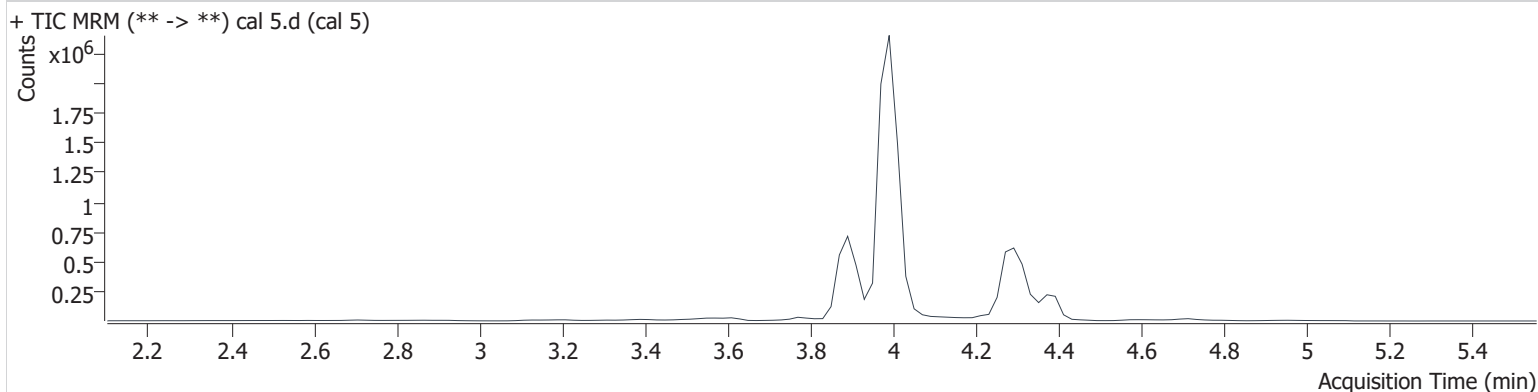
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	33065	455360	9.503 ng/ml
THC-COOH	3.890	735903	767240	49.864 ng/ml
THC-OH	3.999	88437	5828785	9.642 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:41:32 PM		
Sample Info.			

Sample Chromatogram



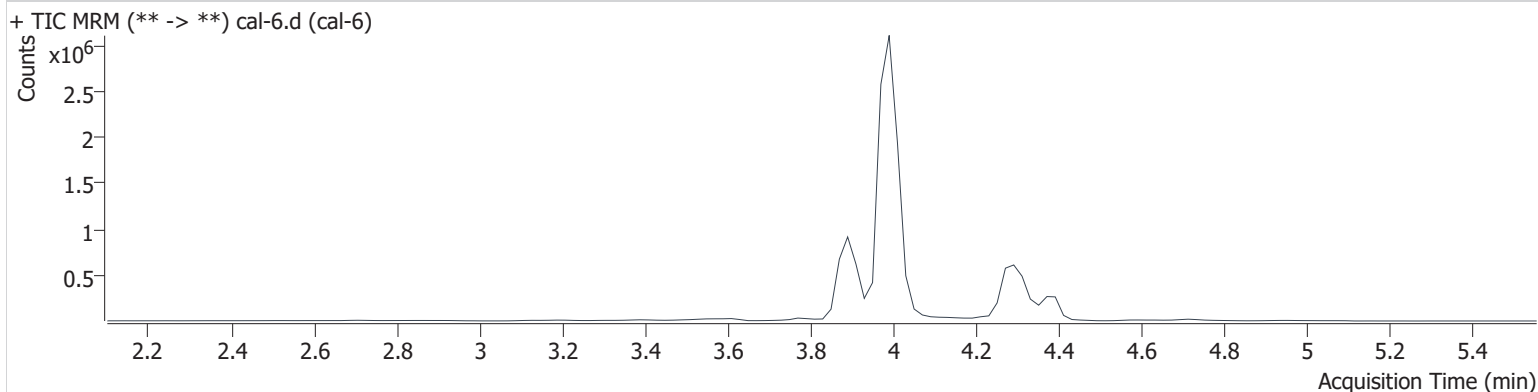
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	82839	434089	24.700 ng/ml
THC-COOH	3.890	1078574	760029	74.452 ng/ml
THC-OH	3.999	230581	5831415	24.751 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:48:08 PM		
Sample Info.			

Sample Chromatogram



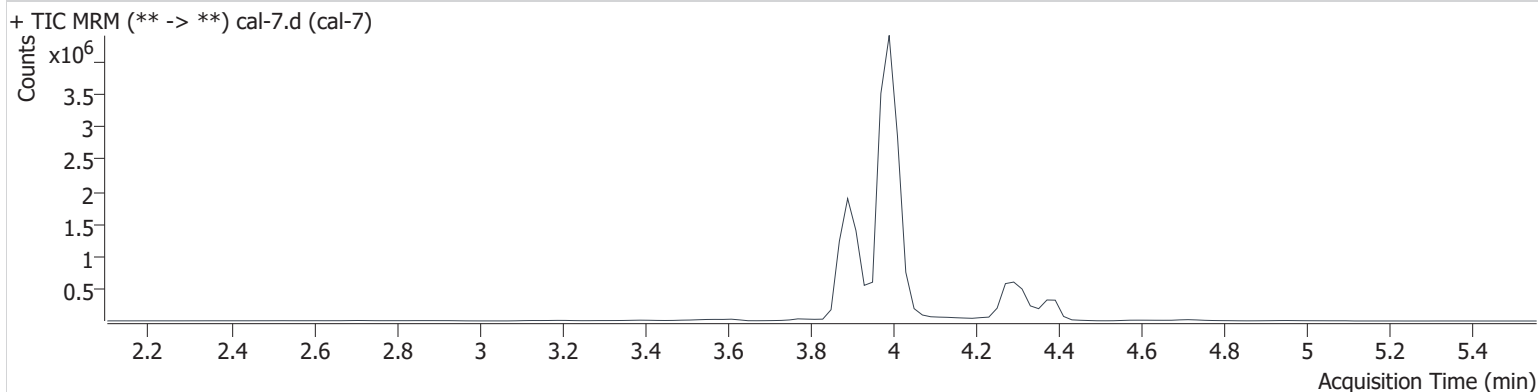
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	178962	463439	49.810 ng/ml
THC-COOH	3.890	1488986	764068	102.764 ng/ml
THC-OH	3.999	477474	5924593	50.204 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\082322\QuantResults\cann.batch.bin
Calibration Last Update 8/23/2022 4:49:30 PM

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	8/23/2022 1:54:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	344821	438702	101.210 ng/ml
THC-COOH	3.890	3504364	753684	247.142 ng/ml
THC-OH	3.999	943124	5827708	100.577 ng/ml