5/10/2022

REVIEWED
By Britany Wylie at 7:38 am, May 12, 2022

Worklist: 5859

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2022-0722	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0802	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0808	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0852	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0854	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0888	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0906	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0908	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0911	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0914	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0915	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0919	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0942	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0967	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0967	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0974	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0974	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0974	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-0984	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-1001	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: 5/4/22 Analyst: Anne Nord
Plate lot#: 211015 Plate retest date: 04/15/22

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: 22B52020 **Blank Urine lot:** **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
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: *blood only run, external control run for plate re-test.*

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 Date: 2/10/2022
Title: Laboratory Manager

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 diphendydramine, methamphetamine, alprazolam, methocarbamol, morphine

Stock solution 1mg/ml 50 ul each in 4750 ul MeOH (Honeywell EA078-US)

ppd 6/25/21: Exp: 6/25/2022 lot 62522 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
methocarbamol	FN01212005	1/1/2023
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (62522) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 6/25/21, exp 6/25/22 lot u62522	negative urine 5621	by AMN
ppd 4/26/22, exp 6/25/22 lot u42622	negative urine 22522	by baw

AM 25/28 Blood Control: 50ul working solution (41422) in 4950 ul neg blood (100ng/mL Expected concentration)

ppp 6/25/21, exp 6/25/22 lot b62522	neg blood 21D52496	by AMN

	1	2	3	4	5	6	7	8	9	10	11	12
A				906-1 **	967-2	852-1 new aliquot						
B	Cal 1			908-1	974-1	906-1 new aliquot						
C			722-1	911-1	974-2	942-1 new aliquot						
D			802-1	914-1	974-3							
E			808-1	915-1	984-1							
F			852-1 *	919-1	1001-1							
G			854-1	942-1 ***	negative blood							
H			888-2	967-1	external control blood							

C2022-0___

* Well clogged new aliquot in a6 200 ul

** Well clogged new aliquot in B6 200 ul

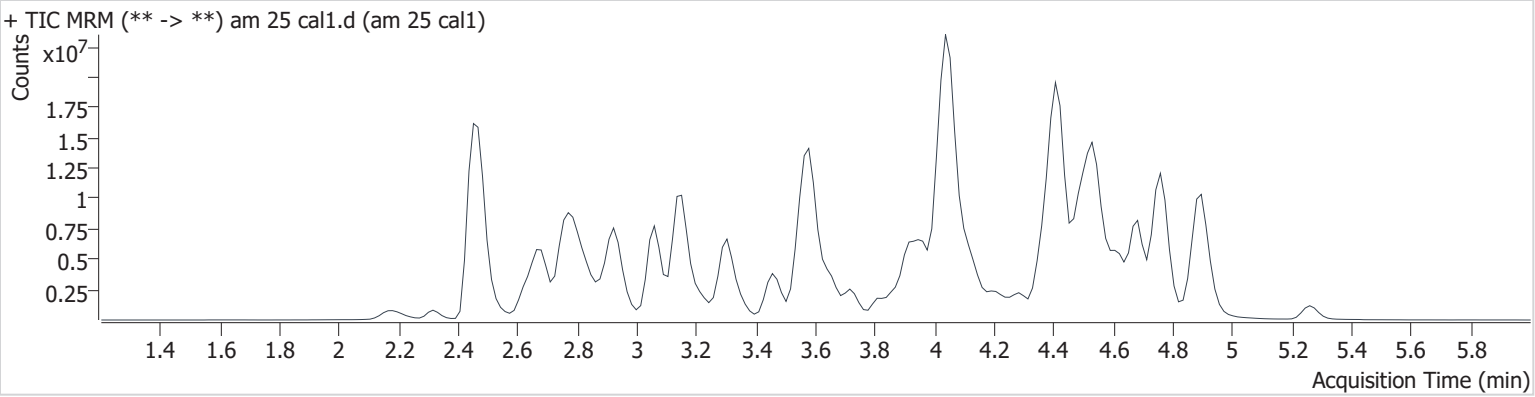
*** Well clogged new aliquot in c6 200 ul

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\mds.batch.bin
Calibration Last Update 5/10/2022 10:38:56 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	5/4/2022 3:02:22 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.557	2578684	36.6	1794.6	6388456	10.000
6-MAM	2.982	47913	158.2	36655.0	1441866	10.000
7-aminoclonazepam	3.370	381025	199.6	135.3	1500769	10.000
7-aminoflunitrazepam	3.599	501036	245.6	161.0	1500769	10.000
9-Hydroxyrisperidone	4.081	5004718	6451.6	95.5	1500769	10.000
Acetyl Fentanyl	4.270	392002	177.0	101909.1	25493591	10.000
Acetyl Norfentanyl	2.671	244827	14942.0	358.7	25493591	10.000
a-hydroxyalprazolam	4.378	386812	311.3	1813.3	1500769	10.000
alpha-hydroxymidazolam	4.469	2707534	433.2	799.3	1500769	10.000
alpha-PHP	3.986	2673287	1415.2	542.8	8230213	10.000
alpha-PVP	3.666	3725496	2196.1	229.3	8230213	10.000
Alprazolam	4.504	1859827	306.3	703.0	16959569	10.000
Amitriptyline	4.600	1063796	256.4	342.6	5777962	10.000
Amphetamine	2.677	3418891	768.5	718.9	8230213	10.000
Benzoylecgonine	3.138	153019	177.4	294.1	348433	10.000
Brompheniramine	4.086	96096	199.0	12.2	48923058	10.000
Buprenorphine	5.273	132316	84461.5	1464.5	3347063	10.000
Bupropion	3.972	3853014	1247.5	1331.7	16164815	10.000
Carbamazepine	4.064	5909576	∞	751.9	160049	10.000
Carisoprodol	4.062	1040749	373.0	195.0	5435070	10.000
Chlordiazepoxide	4.628	763658	220.0	343.1	16959569	10.000
Chlorpheniramine	3.968	5605582	5889.5	112.6	48923058	10.000
Chlorpromazine	4.915	1168499	295899.4	1359.6	5457573	10.000
Citalopram	4.054	2516186	878.0	502563.7	48923058	10.000
Clomimpramine	4.870	1521902	1155.9	567.2	7659237	10.000
Clonazepam	4.302	1056000	469.6	1745.6	16959569	10.000
Clonazolam	4.221	1164906	779.5	∞	16959569	10.000
clozapine	4.685	4409486	13642.0	1078291.4	17694557	10.000
Cocaethylene	3.810	3660231	920.3	770.2	48923058	10.000
Cocaine	3.611	4241053	1391.5	507.4	24550286	10.000
Codeine	2.924	398614	45137.0	224.0	262609	10.000
Cyclobenzaprine	4.477	2379410	421.7	128.1	5777962	10.000
Desipramine	4.370	3299865	19613.2	801.4	5777962	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextromethorphan	4.138	1955480	1459.6	2862.4	10769453	10.000
Dextrorphan	3.281	2304834	249.6	10173.7	10769453	10.000
Diazepam	4.751	960608	272.1	559.4	16959569	10.000
Dihydrocodeine	2.679	999549	417.8	161.1	3069788	10.000
Diphenhydramine	4.047	7492457	808.0	469.6	48923058	10.000
Doxepin	4.260	1771814	285.6	248.8	21539064	10.000
Doxylamine	3.585	7099396	∞	∞	2252103	10.000
Duloxetine	4.320	401854	421.4	986.4	17294188	10.000
EDDP	4.014	1278548	175.6	1993.4	3069788	10.000
Estazolam	4.398	4567517	556.2	984.1	16959569	10.000
Etizolam	4.515	198749	1073.8	209417.6	16959569	10.000
Fentanyl	4.500	275814	42.1	1220.3	18662095	10.000
Flualprazolam	4.347	757118	5377.5	738.8	16959569	10.000
Flunitrazepam	4.442	1928941	471.5	1233.5	16959569	10.000
Fluoxetine	4.287	1661746	1504.6	222414.5	2793080	10.000
Flurazepam	4.528	2991486	14663.6	224864.4	16959569	10.000
Hydrocodone	3.214	1355773	282.7	40.2	7804807	10.000
Hydromorphone	2.485	990151	342.4	335.3	262609	10.000
hydroxyzine	4.774	3019690	2354.9	2734.8	10769453	10.000
Imipramine	4.522	4173821	654.4	432.0	5777962	10.000
Ketamine	3.957	2814480	956.4	152.8	17294188	10.000
Lamotrigine	3.450	227690	164.0	253.7	48923058	10.000
Levamisole	3.070	1738299	1535.2	132.5	10769453	10.000
Levetireacetam	2.325	945199	1079.6	741.7	7659237	10.000
Lorazepam	4.285	321569	597.0	182.2	16959569	10.000
Maprotiline	4.599	570931	125.1	197.3	5777962	10.000
MDA	2.796	2212012	1104.1	41.9	23879163	10.000
MDEA	3.069	3484824	10213.6	2076.8	23879163	10.000
MDMA	2.902	4175867	1554.9	387.4	23879163	10.000
Meperidine	3.664	2477215	555.9	189.4	10769453	10.000
Meprobamate	3.453	541382	771.9	72.6	5435070	10.000
Methadone	4.395	4923589	270.1	547.6	3069788	10.000
Methamphetamine	2.798	6219793	∞	6919.8	23879163	10.000
Methocarbamol	3.343	386351	2579.6	566.2	3069788	10.000
Methylphenidate	3.466	7700254	1520.5	636.0	17294188	10.000
Metoprolol	3.295	654318	663.1	1596.0	10769453	10.000
Midazolam	4.685	616977	601091.1	150569.8	16959569	10.000
Mirtazapine	4.555	3152156	1317.4	1287.4	10769453	10.000
Mitragynine	4.512	408981	90693.2	407525.0	10769453	10.000
Morphine	2.214	286602	88.1	1452.2	262609	10.000
Norbuprenorphine	3.805	75764	48.7	27482.2	262609	10.000
Nordiazepam	4.585	1023844	384.4	567.9	16959569	10.000
Norfentanyl	3.160	4785162	1579.5	618.0	25493591	10.000
Norhydrocodone	2.758	53631	53.2	2289.4	7804807	10.000
norketamine	3.942	546977	157.9	1141.1	17294188	10.000
Normeperidine	3.482	2230923	3481.6	292.9	48923058	10.000
Noroxycodone	2.680	1360362	404.7	795.2	11464116	10.000
Nortriptyline	4.416	1109670	235.3	408.9	5777962	10.000
O-desmethyl-tramadol	2.700	6131356	1333.5	254.8	48923058	10.000
o-Desmethylvenlafaxine	3.065	1646445	385.9	6871.8	7659237	10.000
Olanzapine	4.087	1285871	916.7	840.3	160049	10.000
Oxazepam	4.383	1538187	364.6	199.6	6388456	10.000
Oxycodone	2.877	2361003	208.5	488.4	11464116	10.000
Oxymorphone	2.164	1234724	121.7	126.4	262609	10.000
Paroxetine	4.346	274847	279.8	141.8	2793080	10.000
Phenazepam	4.515	1483696	517.8	2683572.7	16959569	10.000
Phencyclidine	3.879	3969456	270.0	283.0	10769453	10.000
Phentermine	2.949	48822	∞	∞	17294188	10.000
Phenytoin	3.955	268539	972.2	88.1	160049	10.000

AM #25 Multi-Drug Screen Results

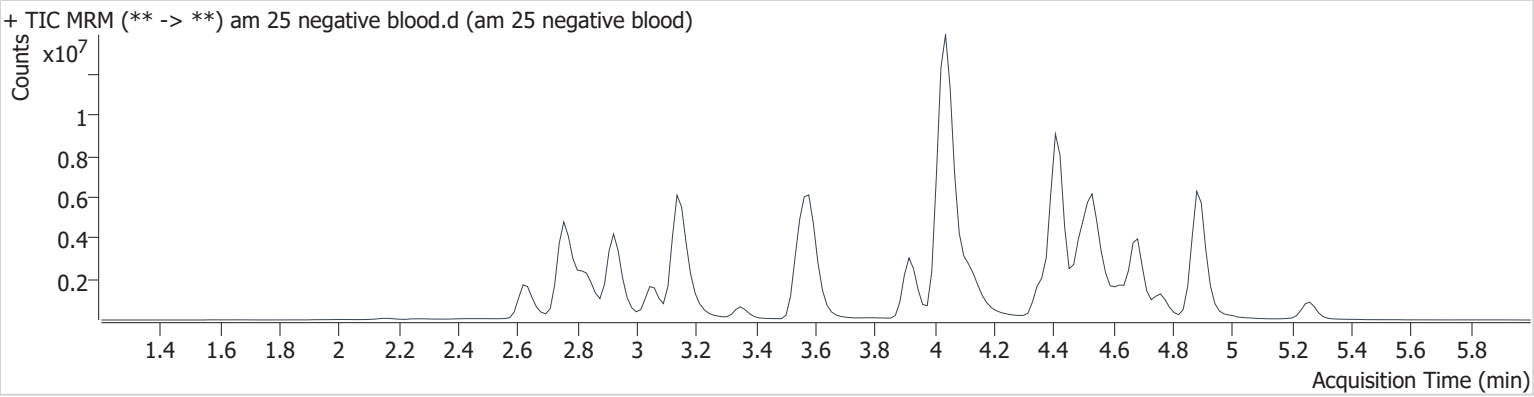
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
primidone	3.237	955546	4034.3	204.8	5777962	10.000
Promethazine	4.614	5375287	1103.4	735.9	48923058	10.000
Pseudoephedrine	2.462	55318362	27323.9	487.8	23879163	10.000
Quetiapine	4.743	4435284	4919.5	1211870.0	37526730	10.000
Risperidone	4.374	5706588	77824.0	568.0	33427510	10.000
Sertraline	4.642	529527	127900.0	899.1	2793080	10.000
Sufentanil	4.941	245152	54088.6	315.9	25493591	10.000
Tapentadol	3.314	4232494	890.1	2574.9	3069788	10.000
Temazepam	4.551	3149616	∞	117.3	16959569	10.000
Topiramate	3.653	44840	15329.3	4531.3	209049	10.000
Tramadol	3.311	6835133	1051.3	107.2	48923058	10.000
Trazodone	4.911	4639467	2254.9	6704.2	21539064	10.000
Venlafaxine	3.721	5309462	806.2	378.0	2793080	10.000
Zaleplon	4.212	1985068	3474.8	1265.2	37526730	10.000
Zolpidem	4.427	7372746	7120.4	1950.9	37526730	10.000
Zopiclone	4.420	410704	541076.0	482.1	2252103	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\mds.batch.bin
Calibration Last Update 5/10/2022 10:38:56 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-G5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	5/4/2022 3:09:09 PM		
Sample Info.			

Sample Chromatogram

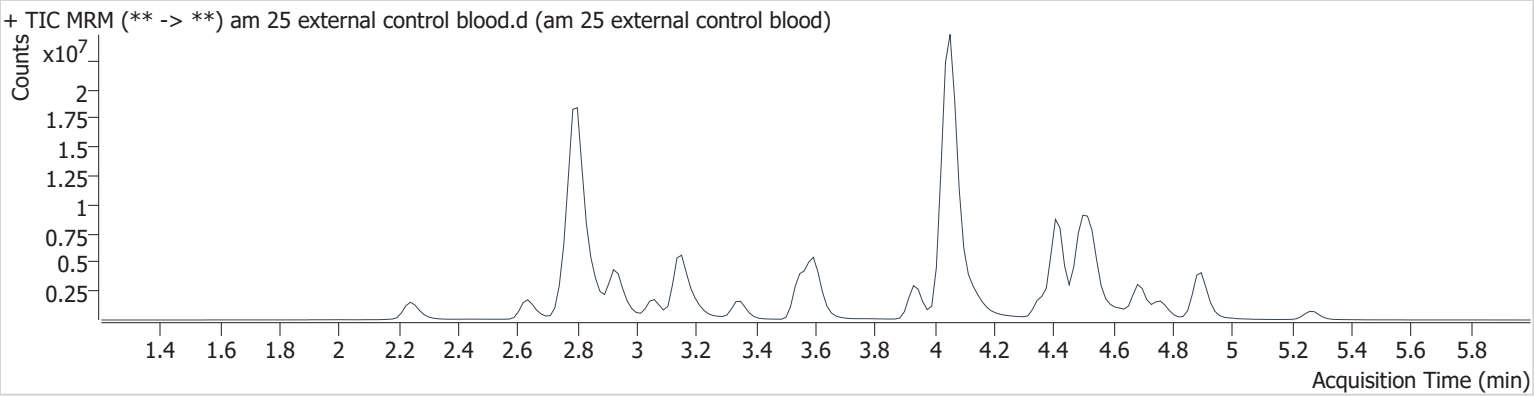


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\mds.batch.bin
Calibration Last Update 5/10/2022 10:38:56 AM

Instrument	69679	**Data File**	am 25 external control blood.d
Type	Sample	**Sample**	am 25 external control blood
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-H5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	5/4/2022 5:11:31 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.489	11156468	1498.9	1058.0	13713000	74.189
Diphenhydramine	4.063	34917020	∞	1399.0	33594620	67.867
Methamphetamine	2.813	28160210	∞	∞	15814583	68.363
Methocarbamol	3.343	1938070	8581.8	7512.2	2016706	76.358
Morphine	2.244	1757225	21854.9	1859.2	209846	76.729

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

Extraction Date: 5/4/22 Analyst: Anne Nord

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

Mobile phase A: 10mM Ammonium Formate 0.1% Formic Acid in Water
Blank Blood Lot: 22B52020 **Urine Blank:**
LCMS-QQQ ID: 69679

Mobile phase B: 0.1% Formic acid in MeOH MTBE Hexane
Column: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

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.

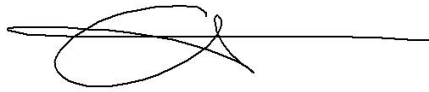
Analytic:

☒ 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: K52558g**
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 8**00 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: *blood only run*



	1	2	3	4	5	6
a	cal 1	888-2 aliquot from h2	906-1	967-2		
b	cal 2	negative blood	908-1	974-1		
c	cal 3	722-1	911-1	974-2		
d	cal 4	802-1	914-1	974-3		
e	Cal 5	808-1	915-1	984-1		
f	cal 6	852-1	919-1	1001-1		
g	cal 7	854-1	942-1			
h	Internal control (blood)	888-2 *	967-1			

c2022-0____-_

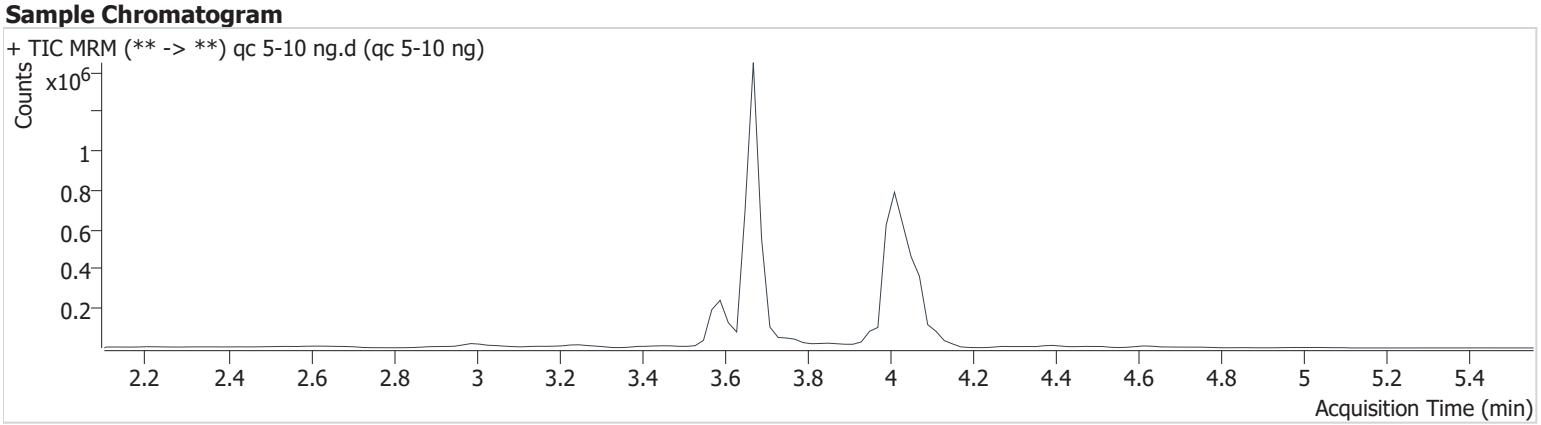
* well clogged moved to well a2 700 ul aliquot

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 AM

Instrument	69679	**Data File**	qc 5-10 ng.d
Type	QC	**Sample**	qc 5-10 ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	5/4/2022 6:52:00 PM		
Sample Info.			

Sample Chromatogram



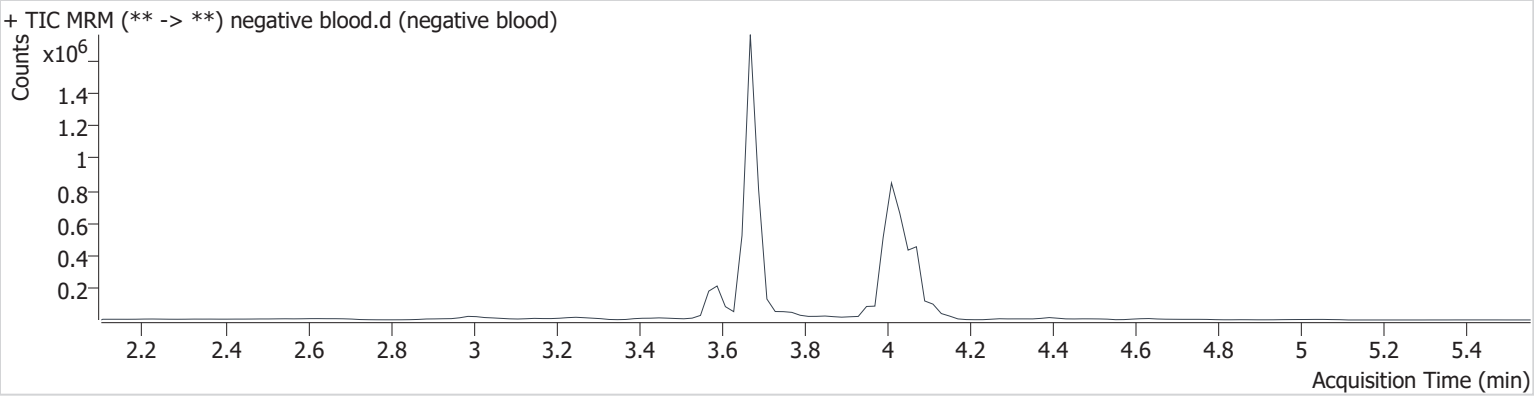
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	25233	682508	4.743 ng/ml
THC-COOH	3.592	92465	558522	15.296 ng/ml
THC-OH	3.679	23107	3254674	4.636 ng/ml

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update	5/5/2022 8:50:24 AM

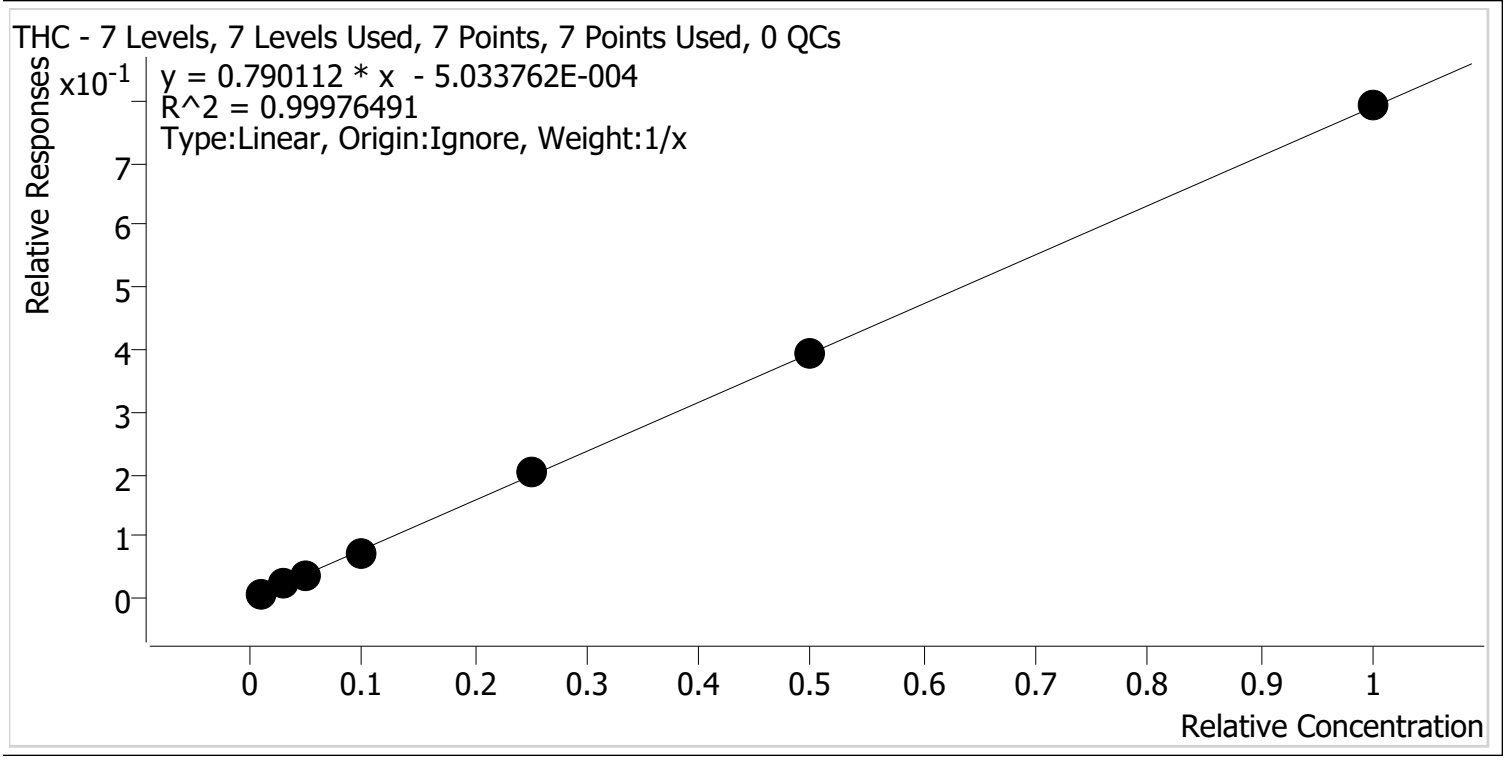
Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B2	**Comment**	
Injection Volume	5		
Acq. Date-Time	5/4/2022 7:05:12 PM		
Sample Info.			

Sample Chromatogram



Compound Calibration Report

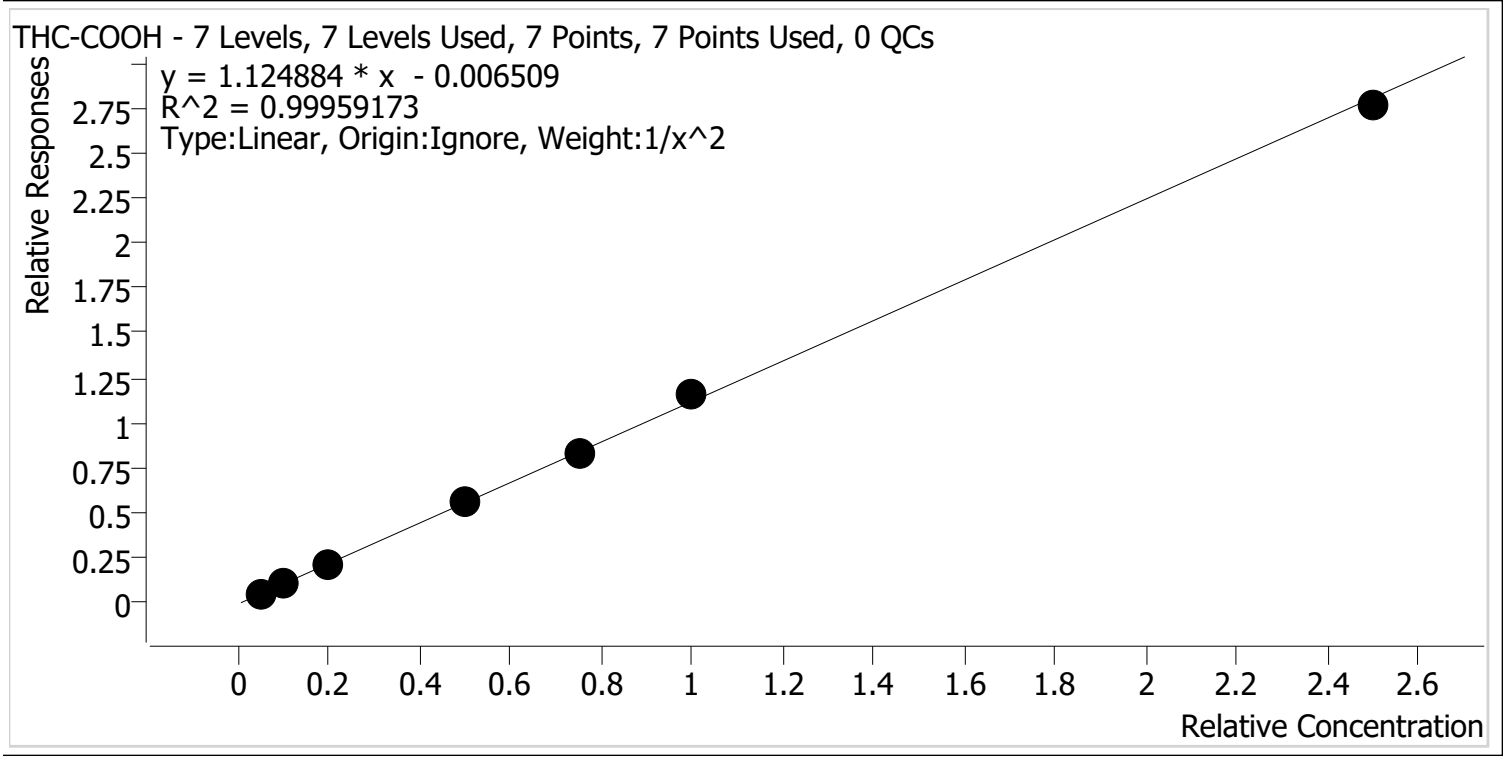
Batch results	D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Last Cal. Update	5/5/2022 8:50 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	105.5
cal 2	2	✔	3.0	3.0	100.2
cal 3	3	✔	5.0	4.8	96.9
cal 4	4	✔	10.0	9.6	95.6
cal 5	5	✔	25.0	25.5	102.0
cal-6	6	✔	50.0	49.8	99.5
cal-7	7	✔	100.0	100.3	100.3

Compound Calibration Report

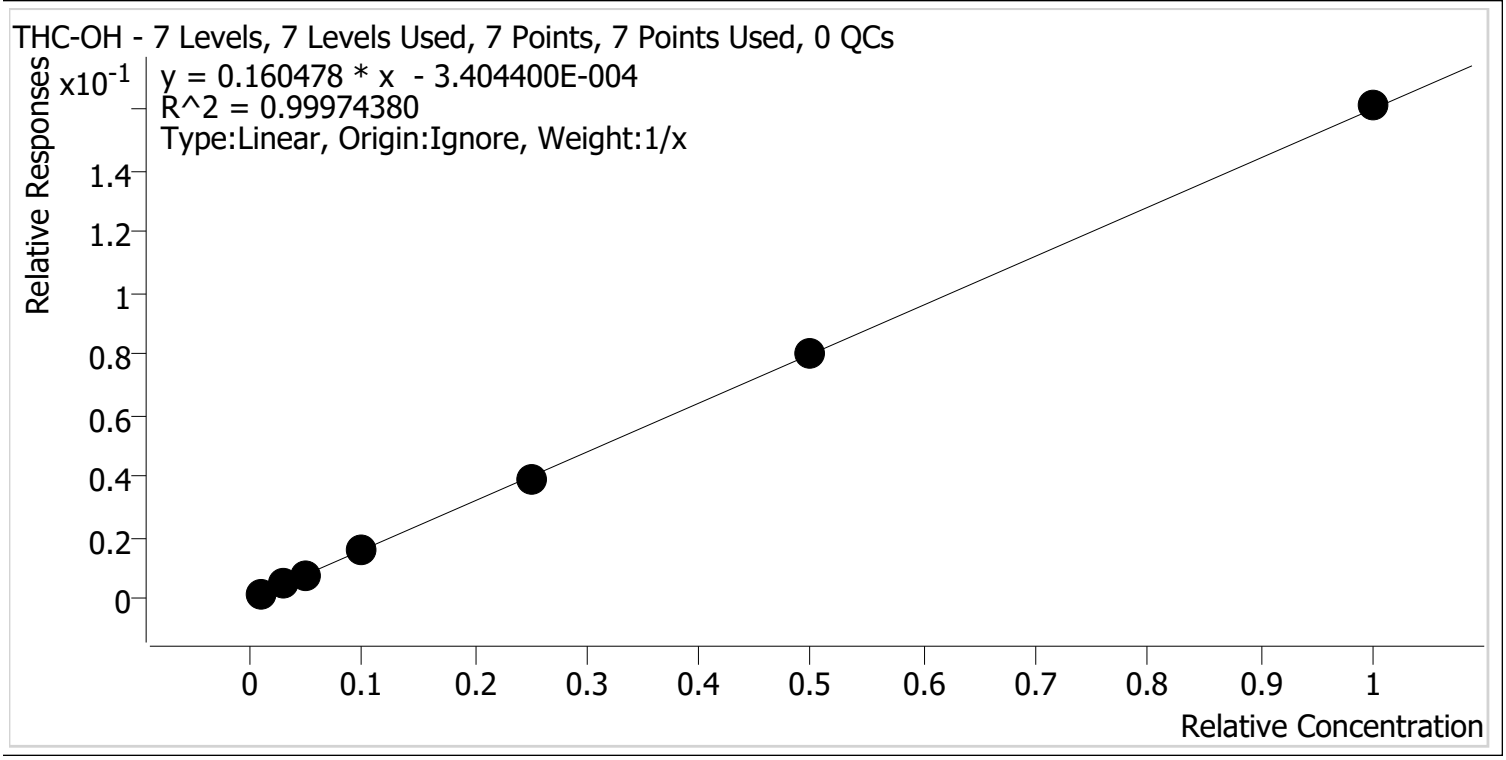
Batch results	D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Last Cal. Update	5/5/2022 8:50 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.0	100.8
cal 2	2	✔	10.0	9.8	98.3
cal 3	3	✔	20.0	19.9	99.7
cal 4	4	✔	50.0	50.0	100.0
cal 5	5	✔	75.0	74.6	99.5
cal-6	6	✔	100.0	103.2	103.2
cal-7	7	✔	250.0	246.1	98.4

Compound Calibration Report

Batch results	D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Last Cal. Update	5/5/2022 8:50 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



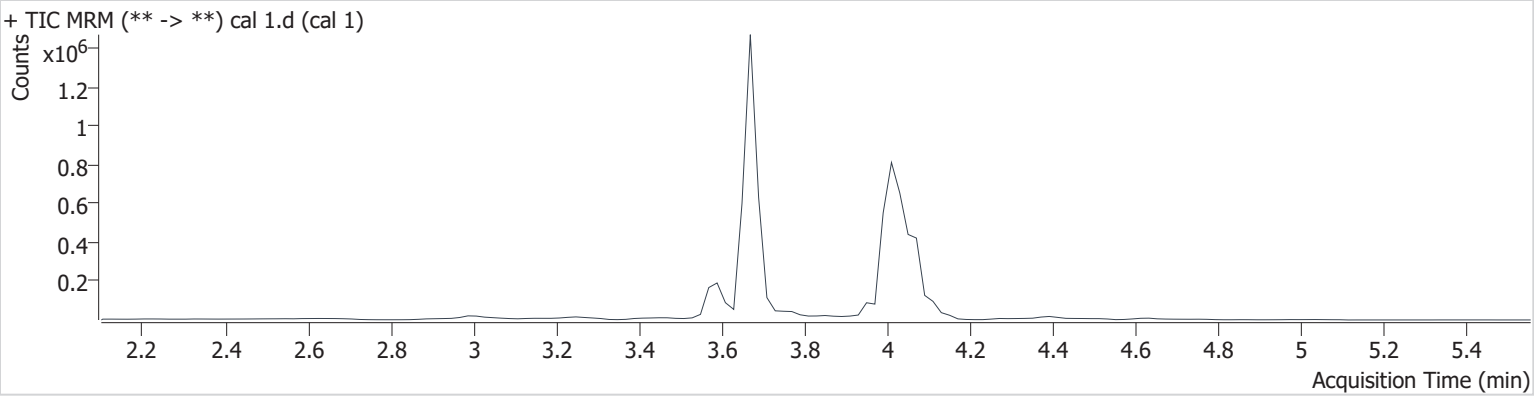
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	109.9
cal 2	2	✔	3.0	2.9	97.8
cal 3	3	✔	5.0	4.8	96.1
cal 4	4	✔	10.0	9.7	96.8
cal 5	5	✔	25.0	24.6	98.3
cal-6	6	✔	50.0	50.2	100.5
cal-7	7	✔	100.0	100.7	100.7

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:05:39 PM		
Sample Info.			

Sample Chromatogram



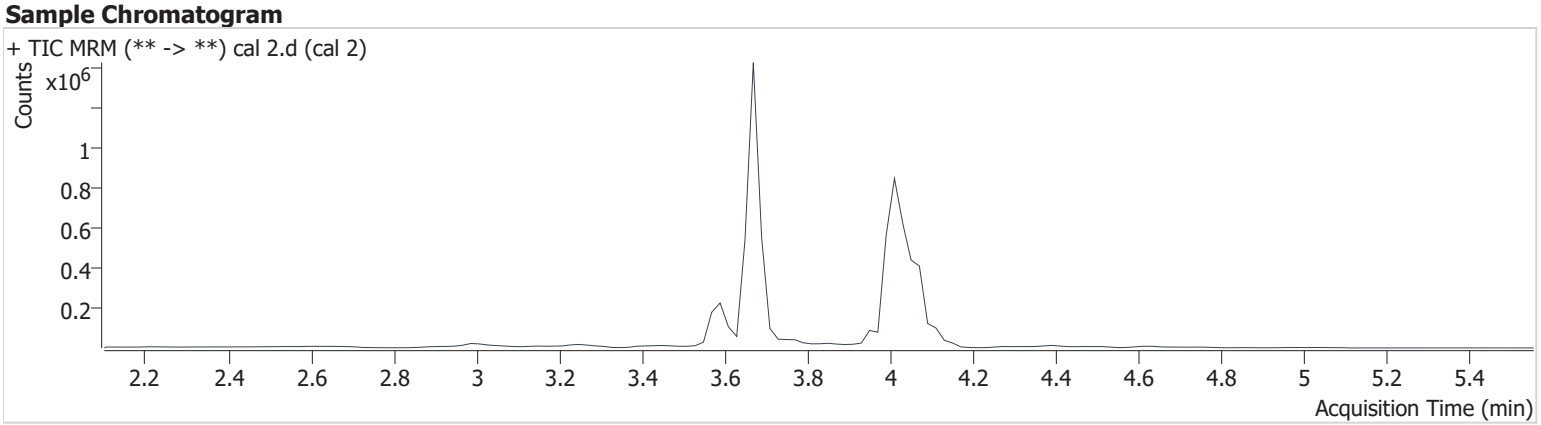
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	5772	736721	1.055 ng/ml **Low**
THC-COOH	3.592	26959	537065	5.041 ng/ml **Low**
THC-OH	3.679	4917	3455410	1.099 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:12:17 PM		
Sample Info.			

Sample Chromatogram



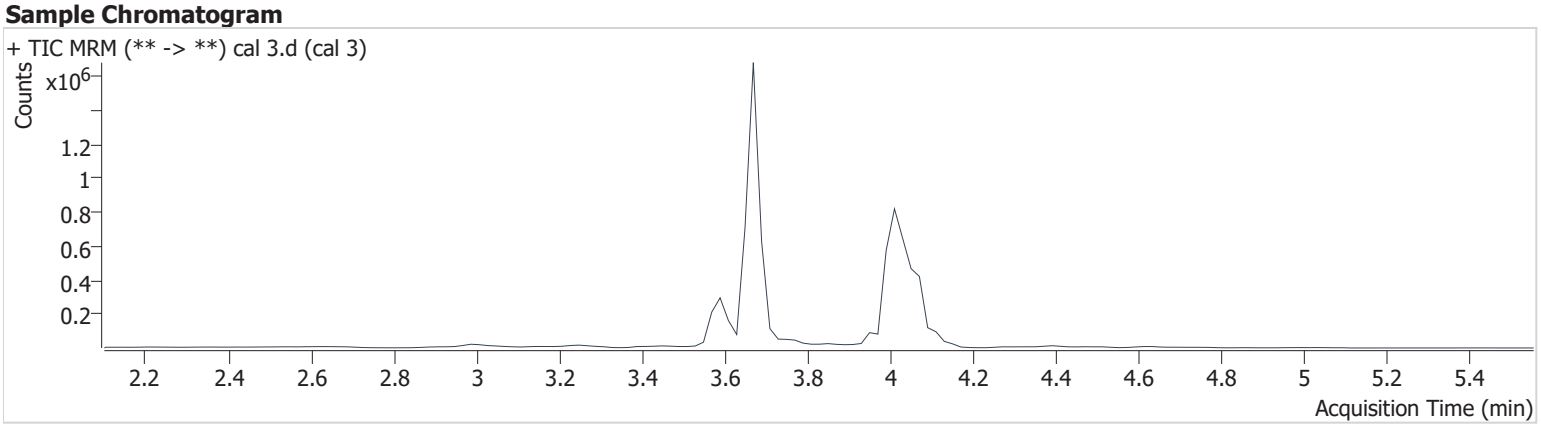
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	16464	708297	3.006 ng/ml
THC-COOH	3.592	57197	549563	9.831 ng/ml **Low**
THC-OH	3.679	13454	3080628	2.933 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:18:55 PM		
Sample Info.			

Sample Chromatogram



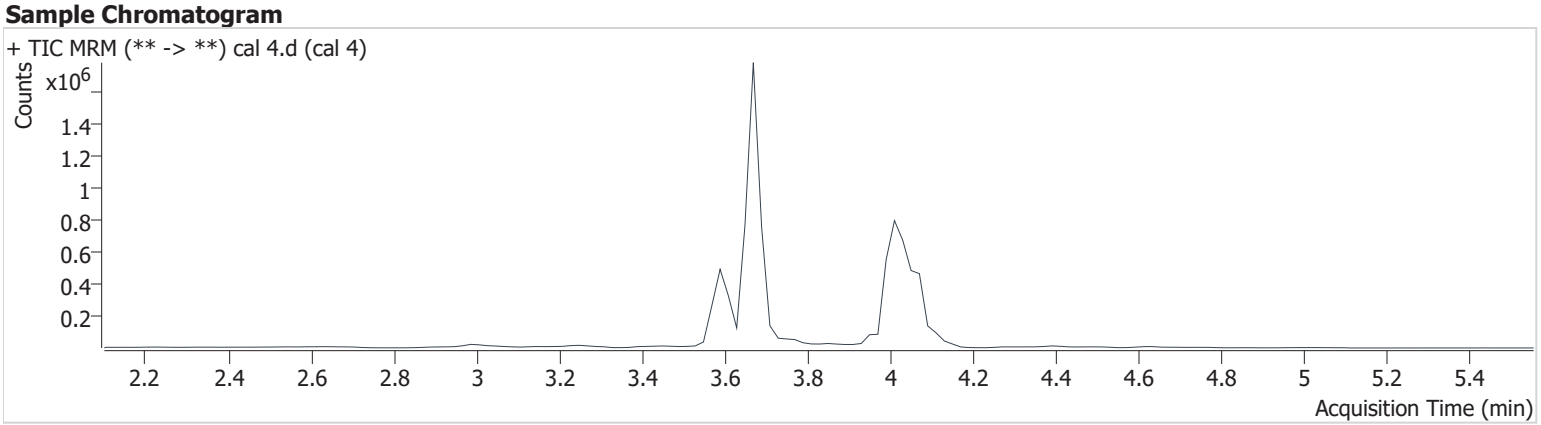
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	28211	747137	4.843 ng/ml
THC-COOH	3.592	126536	581009	19.939 ng/ml
THC-OH	3.679	26771	3633248	4.804 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:25:33 PM		
Sample Info.			

Sample Chromatogram



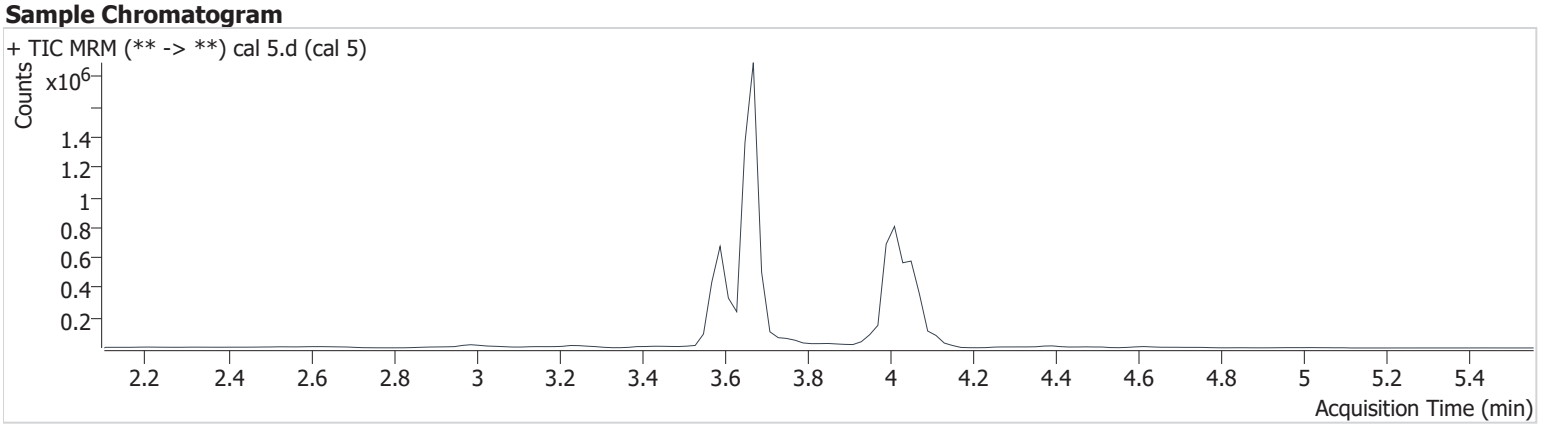
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	56443	751946	9.564 ng/ml
THC-COOH	3.592	331212	595487	50.024 ng/ml
THC-OH	3.679	56597	3723458	9.684 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:32:09 PM		
Sample Info.			

Sample Chromatogram



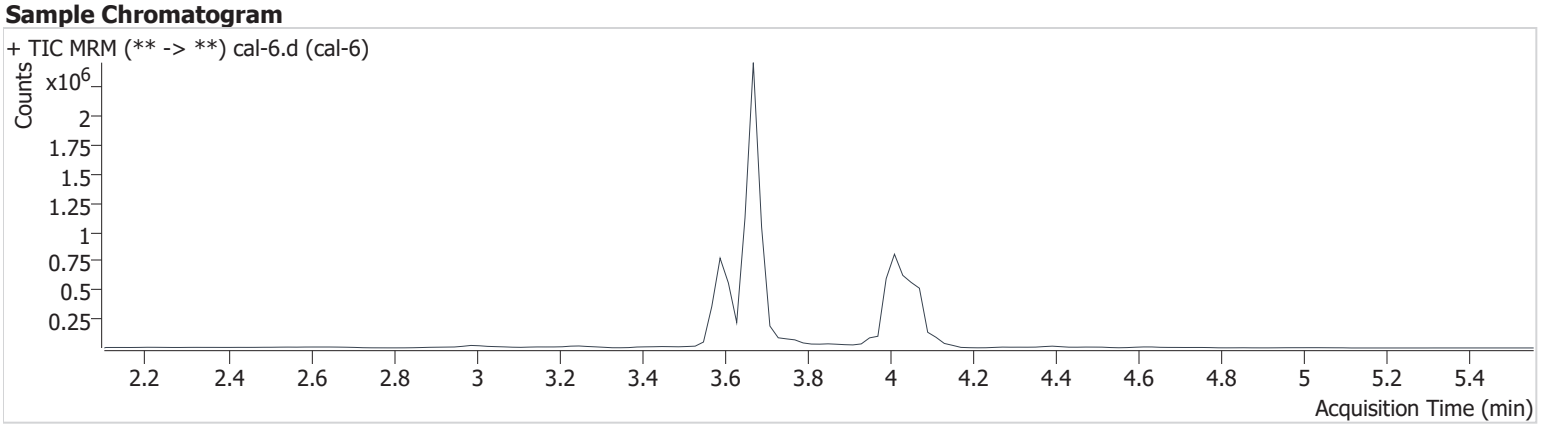
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	149905	745958	25.498 ng/ml
THC-COOH	3.592	509259	611457	74.619 ng/ml
THC-OH	3.679	140666	3599693	24.563 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:38:48 PM		
Sample Info.			

Sample Chromatogram



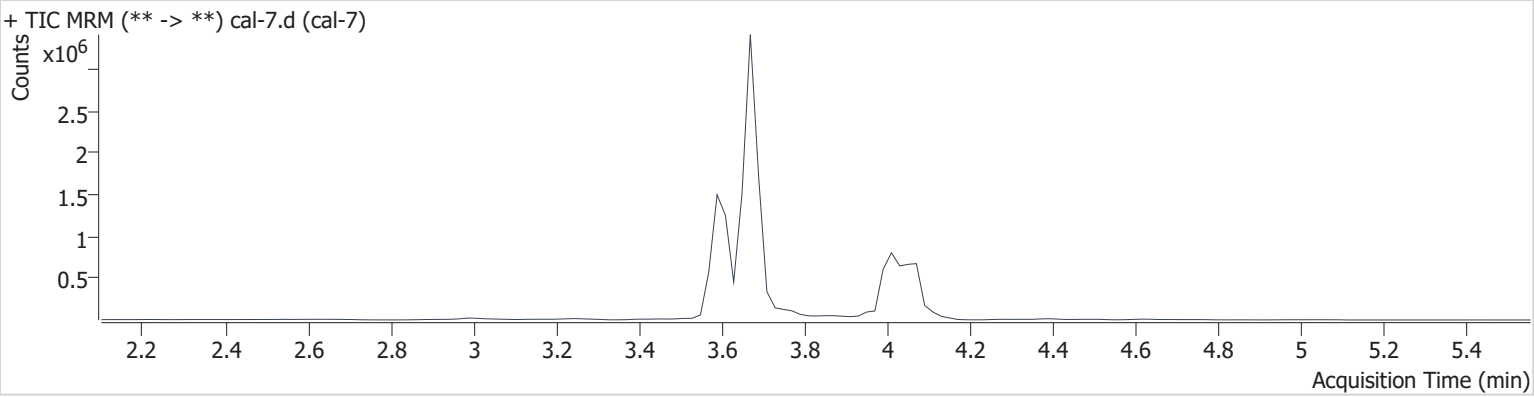
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	281451	716795	49.760 ng/ml
THC-COOH	3.592	652164	565020	103.188 ng/ml
THC-OH	3.679	277695	3458743	50.243 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\050422\QuantResults\cann.batch.bin
Calibration Last Update 5/5/2022 8:50:24 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	5/4/2022 6:45:24 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	561573	709251	100.275 ng/ml
THC-COOH	3.592	1522006	551063	246.110 ng/ml
THC-OH	3.679	561699	3484054	100.675 ng/ml