



















Bylee

Worklist: 5236

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2021-1923	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1931	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1950	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1968	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1975	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1977	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1978	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-1981	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2003	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2004	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2014	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2037	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2057	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2057	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2064	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2069	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2071	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

BWylee

Worklist: 5237

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2021-1926	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

BWylie

Extraction Date: 9/15/2021

Analyst: Britany Wylie

Plate lot#: 210611

Plate Expiration: 12/11/2021

Mobile phase A: 10mM Amm Form

0.5M Ammonium Hydroxide

Blank Blood Lot: 21D52496

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

Mobile phase B: 0.1% Formic Acid in MeOH

Ethyl Acetate

LC Methanol

Negative Urine Lot: 83121

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: 1926134**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer **300 µL of blood or urine+base** 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 **900 µL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add **900 µL ethyl acetate.**
- 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. **Urine samples add 50ul 1% HCl in MeOH** Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
- 16. 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:

BWylee

	1	2	3	4	5	6	7	8	9	10	11	12
A	CAL	1975-2	2064									
B	CAL	1977	2069									
C	Neg blood	1978	2071									
D	1923	1981	neg urine									
E	1926	2004	pc urine									
F	1931	2037	2003									
G	1950	2057-1	2014									CAL
H	1968-3	2057-2										CAL

All wells to contain 60 µl of residual DMSO

Case # C2021-____-1 (unless noted)

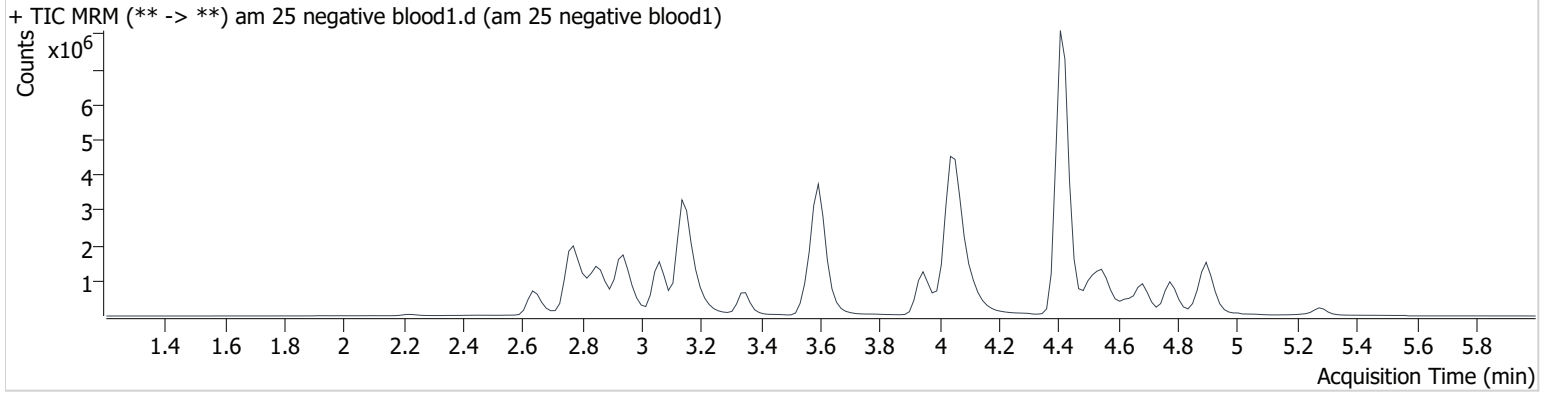
AM #25 Multi-Drug Screen Results

B. Wylie

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\mds.batch.bin
Calibration Last Update 9/15/2021 7:58:43 PM

Instrument	69679	Data File	am 25 negative blood1.d
Type	Sample	Sample	am 25 negative blood1
Acq. Method	mds713.m	Operator	Britany Wylie
Sample Position	P2-C1	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/15/2021 1:36:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.813	918536	∞	186.1	6609734	3.766 <10

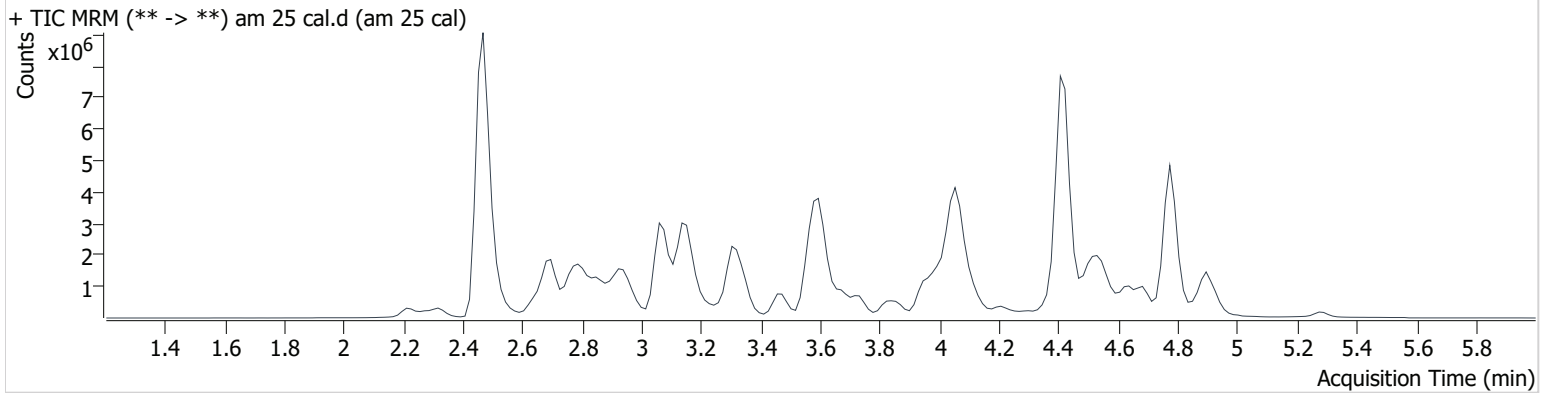
AM #25 Multi-Drug Screen Results

B. Wylie

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\mds.batch.bin
Calibration Last Update 9/15/2021 7:58:43 PM

Instrument	69679	Data File	am 25 cal.d
Type	Cal	Sample	am 25 cal
Acq. Method	mds713.m	Operator	Britany Wylie
Sample Position	P2-A1	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/15/2021 1:29:47 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.012	17554	5445.0	17200.8	600035	10.000
7-aminoclonazepam	3.354	203684	563.7	1899.8	1531723	10.000
7-aminoflunitrazepam	3.583	826170	159.9	1002.1	1531723	10.000
Acetyl Fentanyl	4.285	33901	71.5	64161.2	6586444	10.000
Acetyl Norfentanyl	2.671	105305	166.8	298.3	6586444	10.000
a-hydroxyalprazolam	4.392	22264	270.7	7471.2	1531723	10.000
alpha-hydroxymidazolam	4.484	370503	175.5	447.2	1531723	10.000
alpha-PHP	4.002	543464	792.9	383.2	1482986	10.000
alpha-PVP	3.681	1003619	420.6	211.0	1482986	10.000
Alprazolam	4.503	631395	458.5	348.9	1918425	10.000
Amitriptyline	4.599	154897	113.7	78.5	762944	10.000
Amphetamine	2.692	573488	196.9	1330.6	1482986	10.000
Benzoylcegonine	3.137	90424	1304.5	53.5	165064	10.000
Brompheniramine	4.070	7049	2716.7	5.9	6545430	10.000
Buprenorphine	5.288	103223	71149.7	385.5	428575	10.000
Bupropion	4.002	569537	290.2	317.8	2310445	10.000
Carbamazepine	4.079	2086488	1808.9	520.5	23216	10.000
Carisoprodol	4.062	240459	533.0	101.1	1380230	10.000
Chlordiazepoxide	4.642	178095	113.0	45.1	1918425	10.000
Chlorpheniramine	3.967	635898	7396.5	10.2	6545430	10.000
Chlorpromazine	4.914	264680	397.6	244.7	1179237	10.000
Citalopram	4.054	316663	95.4	50670.6	6545430	10.000
Clomipramine	4.869	292387	244.0	109.7	3296048	10.000
Clonazepam	4.317	66634	37.5	4273.9	1918425	10.000
Clonazolam	4.236	151247	74769.5	24344.4	1918425	10.000
Cocaethylene	3.824	955717	579719.1	2162.4	6545430	10.000
Cocaine	3.626	1557221	514.4	2115.4	7875170	10.000
Codeine	2.969	140556	40788.2	560.5	122793	10.000
Cyclobenzaprine	4.476	291325	5276.3	64.0	762944	10.000
Desipramine	4.385	350175	126494.6	679.5	762944	10.000
Dextromethorphan	4.122	184957	417.1	67552.7	1024975	10.000
Dextrorphan	3.281	583201	3069.1	486.9	1024975	10.000
Diazepam	4.766	237685	226.8	433.4	1918425	10.000
Dihydrocodeine	2.694	412259	1326.5	182.8	674972	10.000

am 25 cal

AM #25 Multi-Drug Screen Results

Byylee

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Diphenhydramine	4.062	877357	354.8	306.9	6545430	10.000
Doxepin	4.275	184224	2481.8	54.4	2380583	10.000
Doxylamine	3.570	1997041	4966.8	3904.1	1024975	10.000
EDDP	4.014	280203	173229.3	60333.5	674972	10.000
Estazolam	4.412	758195	∞	302659.9	1918425	10.000
Etizolam	4.514	95350	31345.2	1201098.7	1918425	10.000
Fentanyl	4.515	27556	1159.1	6659.8	1855173	10.000
Flualprazolam	4.346	269708	77002.9	1747697.2	1918425	10.000
Flunitrazepam	4.441	307702	145735.3	59233.5	1918425	10.000
Fluoxetine	4.302	221264	152731.6	13442.0	515635	10.000
Flurazepam	4.543	335766	388799.2	182.5	1918425	10.000
Hydrocodone	3.229	320640	841.8	36.8	2155985	10.000
Hydromorphone	2.516	479426	605.8	195.0	122793	10.000
Imipramine	4.522	482939	200149.6	178.3	762944	10.000
Ketamine	4.002	1102488	459.4	77.1	3025525	10.000
Lamotrigine	3.449	97100	202.5	4784.6	6545430	10.000
Levamisole	3.115	1064929	4820.0	229.0	1024975	10.000
Levetireacetam	2.325	287587	857.1	1752.0	3296048	10.000
Lorazepam	4.316	8662	12.7	14.5	1918425	10.000
Maprotiline	4.599	89214	17.5	104.0	762944	10.000
MDA	2.811	403993	125.7	201.0	3994155	10.000
MDEA	3.069	726642	1392.9	1676.4	3994155	10.000
MDMA	2.917	946448	5085.1	2362.5	3994155	10.000
Meperidine	3.679	368869	723.6	138.7	1024975	10.000
Meprobamate	3.452	69331	410.3	13.1	1380230	10.000
Methadone	4.395	510556	126.4	273.8	674972	10.000
Methamphetamine	2.813	1473818	∞	1245.6	3994155	10.000
Methocarbamol	3.358	57140	264.5	14714.6	674972	10.000
Methylphenidate	3.466	1563152	622.6	429.0	3025525	10.000
Metoprolol	3.295	174753	245.8	6625.7	1024975	10.000
Midazolam	4.684	151374	3616.9	75124.9	1918425	10.000
Mirtazapine	4.539	360449	281.4	136071.4	1024975	10.000
Mitragynine	4.527	51179	203.8	26587.4	1024975	10.000
Morphine	2.274	162422	402.6	953.4	122793	10.000
Norbuprenorphine	3.805	4431	1121.5	1457.0	122793	10.000
Nordiazepam	4.600	90033	2062.8	95.3	1918425	10.000
Norfentanyl	3.160	1384006	352.2	166.2	6586444	10.000
Norhydrocodone	2.743	15927	263.6	1376.2	2155985	10.000
norketamine	3.972	143736	127.3	18091.5	3025525	10.000
Normeperidine	3.482	245260	430.2	225.8	6545430	10.000
Noroxycodone	2.664	335929	∞	421.6	3692252	10.000
Nortriptyline	4.431	129261	1801.8	102.3	762944	10.000
O-desmethyl-tramadol	2.700	3247192	1595.3	126.9	6545430	10.000
Olanzapine	4.100	174955	32.0	25.0	23216	10.000
Oxazepam	4.397	40241	27390.2	6.0	196110	10.000
Oxycodone	2.907	754591	176.7	163.5	3692252	10.000
Oxymorphone	2.664	111547	300.9	145.6	122793	10.000
Paroxetine	4.346	33501	22.5	104.6	515635	10.000
Phenazepam	4.529	125210	29048.0	4342.9	1918425	10.000
Phencyclidine	3.864	615376	790.9	40.2	1024975	10.000
Phentermine	2.964	8636	25.7	∞	3025525	10.000
Phenytoin	3.970	44862	12525.9	38.8	23216	10.000
primidone	3.237	63903	156.6	42.3	762944	10.000
Promethazine	4.628	653896	626.4	82.2	6545430	10.000
Pseudoephedrine	2.477	26238694	22725.2	1211.5	3994155	10.000
Quetiapine	4.742	567274	1226.1	181774.9	18273853	10.000
Sertraline	4.642	103041	14664.7	453.7	515635	10.000
Sufentanil	4.955	26135	5942.7	59.2	6586444	10.000
Tapentadol	3.314	1359704	9270.9	151.2	674972	10.000
Temazepam	4.566	369863	1281229.4	35.7	1918425	10.000

AM #25 Multi-Drug Screen Results

BWylee

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Tramadol	3.311	2399890	879.6	40.1	6545430	10.000
Trazodone	4.926	521487	127428.4	482.9	2380583	10.000
Venlafaxine	3.736	1359316	580.0	98.5	515635	10.000
Zaleplon	4.211	372727	119395.4	134002.8	18273853	10.000
Zolpidem	4.426	3215661	3177.4	582.4	18273853	10.000
Zopiclone	4.420	86427	122995.2	199.2	451468	10.000

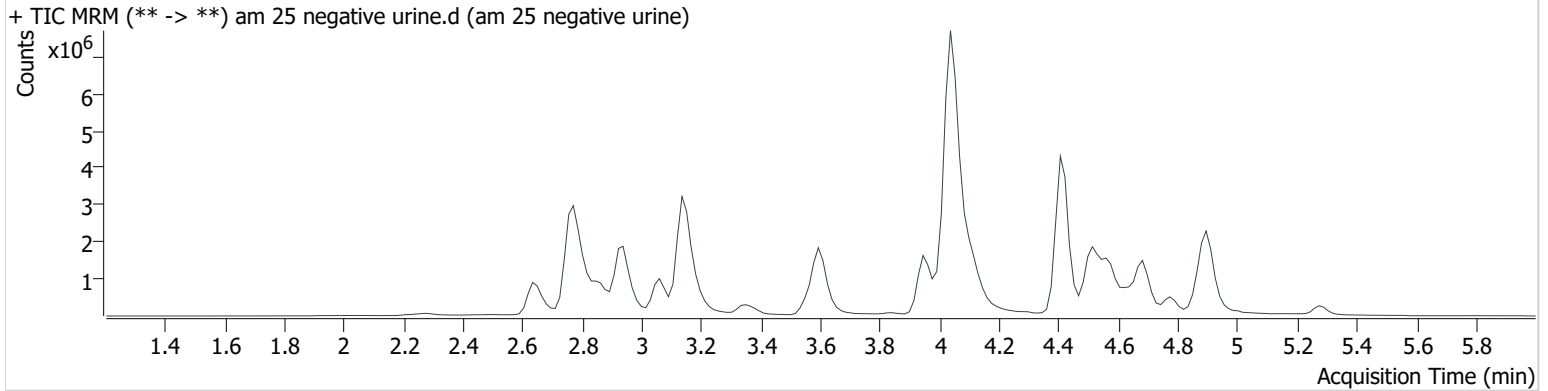
AM #25 Multi-Drug Screen Results

B. Wylie

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\mds.batch.bin
Calibration Last Update 9/15/2021 7:58:43 PM

Instrument	69679	Data File	am 25 negative urine.d
Type	Sample	Sample	am 25 negative urine
Acq. Method	mds713.m	Operator	Britany Wylie
Sample Position	P2-D3	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/15/2021 4:03:16 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Buprenorphine	5.333	47919	33.7		808405	2.461 <small>neg</small>
Methamphetamine	2.813	1309422	∞		10001038	3.548 <small><10</small>
Phentermine	2.858 Low	8635	∞	253.6	5649704	5.355 <small>neg</small>

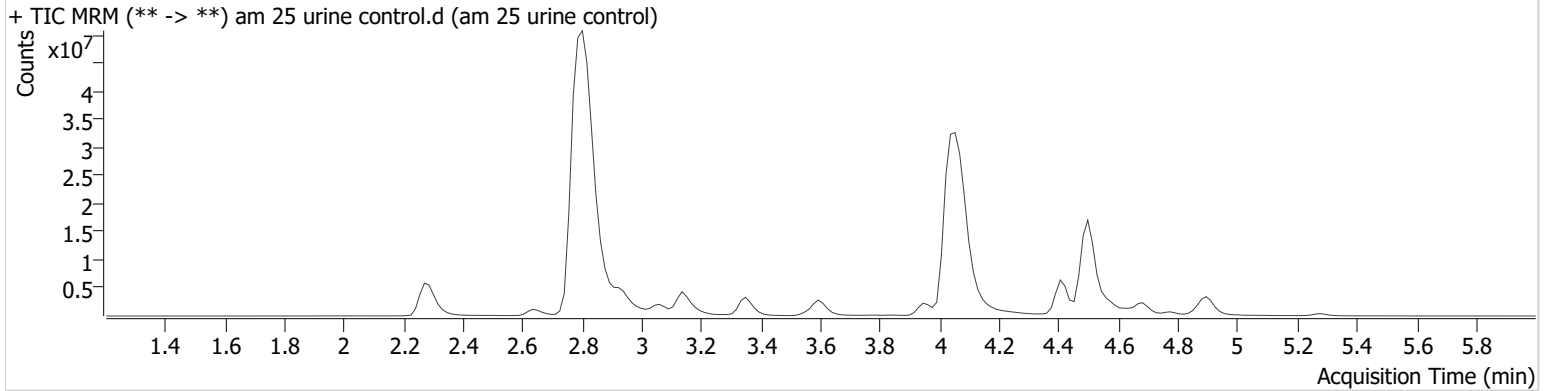
AM #25 Multi-Drug Screen Results

B. Wylie

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\mds.batch.bin
Calibration Last Update 9/15/2021 7:58:43 PM

Instrument	69679	Data File	am 25 urine control.d
Type	Sample	Sample	am 25 urine control
Acq. Method	mds713.m	Operator	Britany Wylie
Sample Position	P2-E3	Comment	
Injection Volume	2.5		
Acq. Date-Time	9/15/2021 4:09:57 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.503	25277345	1422.5	1597.2	1476383	520.207
Brompheniramine	4.132	4829	2.8 Low	23.0	22246217	2.016 ^{neg}
Buprenorphine	5.333	54074	14.3		1251307	1.794 ^{neg}
Diphenhydramine	4.062	84903894	26419.5	547.9	22246217	284.730
Methamphetamine	2.813	82613705	49005.5	∞	11581026	193.324
Methocarbamol	3.358	4886907	9748.9	4140.3	2369561	243.621
Morphine	2.274	7055066	47493.1	5368.5	103059	517.540
Phentermine	2.858 Low	25142	39.0	∞	7378818	11.938 ^{neg}

BWylee

Toxicology AM method 25/28 urine external control prep

11/18/21
BW working solution 10000 ng/ml in meoh diphendyramine, methamphetamine, alprazolam, methocarbamol, methylphenidate, 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
Diphendyramine	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

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

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

BWylie

Extraction Date: 09/15/2021
Plate lot#: 210609

Analyst: Britany Wylie
Plate Expiration: 12-9-2021

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water
1N KOH Saturated Phosphate Buffer

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

Blank Blood Lot: 21D52496

Neg Urine Lot: 83121

Column: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 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: 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 **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 1 ng/mL or greater for THC, 3 ng/mL or greater for THC-OH, and/or 5 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:

BWylee

	1	2	3	4	5	6
a	cal 1 ng	NEG	1978	2071		QC 1
b	cal 3 ng	1923	1981	neg urine		cal 100 ng
c	cal 5 ng	1926	2004	urine pc		cal 50 ng
d	cal 10ng		2037	2003		cal 25 ng
e	cal 25 ng	1950	2057-1	2014		cal 10ng
f	cal 50 ng	1968-3	2057-2	1975-2r		cal 5 ng
g	cal 100 ng	1975-2 ^{BW} ** 9-20-21	2064			cal 3 ng
h	QC 1	1977	2069		NEG	cal 1ng

** did not flow through SLE Plate

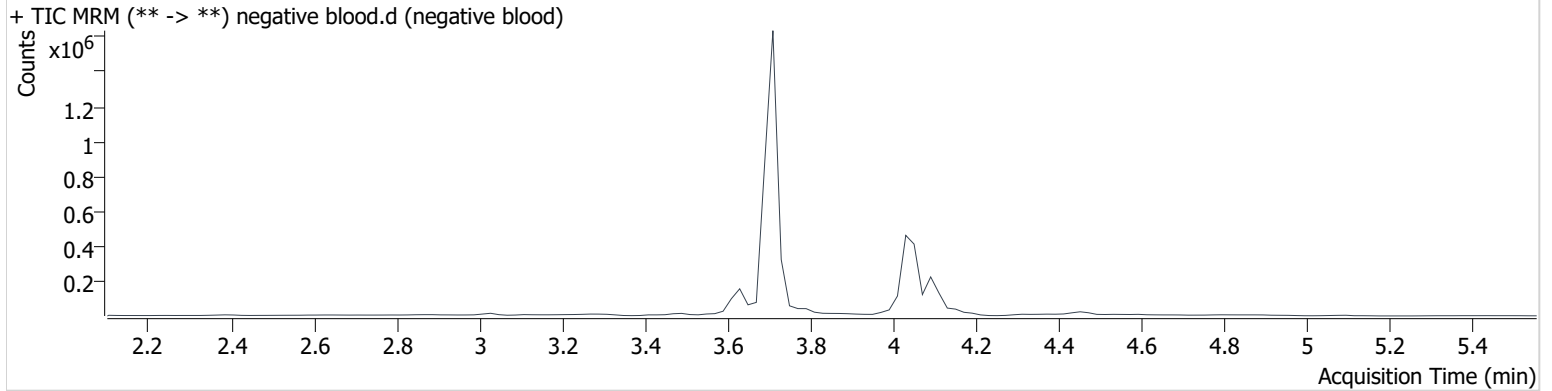
Case # C2021-____-1 (unless noted)

AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-A2	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 9:38:03 PM		
Sample Info.			

Sample Chromatogram



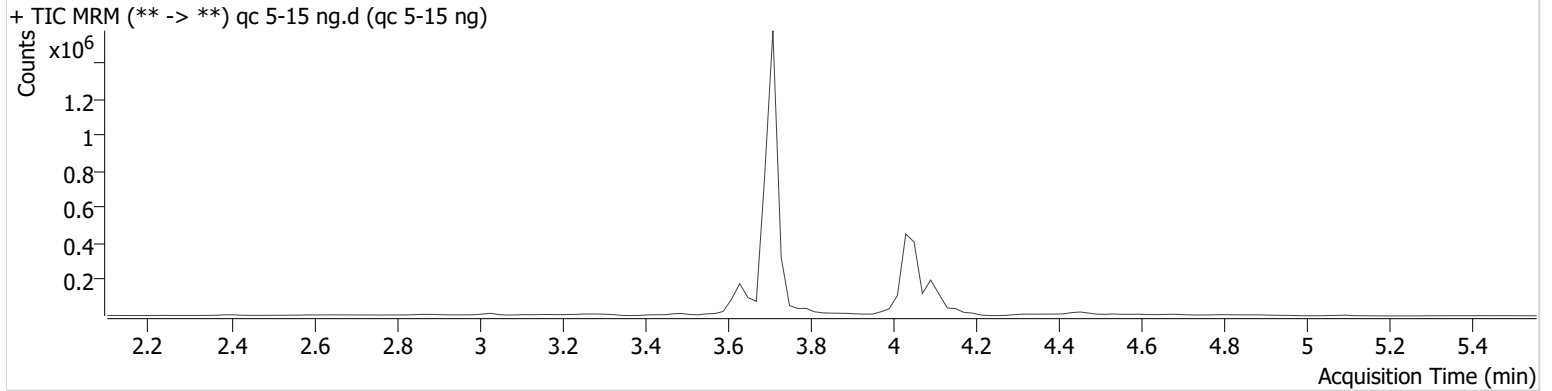
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	qc 5-15 ng.d
Type	QC	Sample	qc 5-15 ng
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-H1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 9:31:27 PM		

Sample Info.

Sample Chromatogram



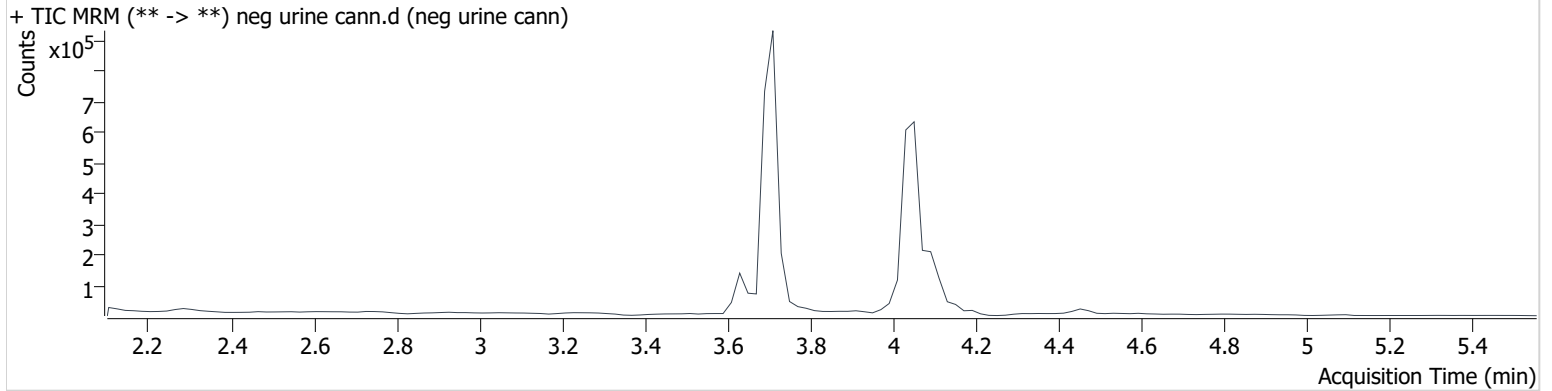
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	12524	291186	4.838 ng/ml
THC-COOH	3.632	64322	331523	15.646 ng/ml
THC-OH	3.719	28933	3088803	5.147 ng/ml

AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	neg urine cann.d
Type	Sample	Sample	neg urine cann
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-B4	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 11:23:38 PM		
Sample Info.			

Sample Chromatogram

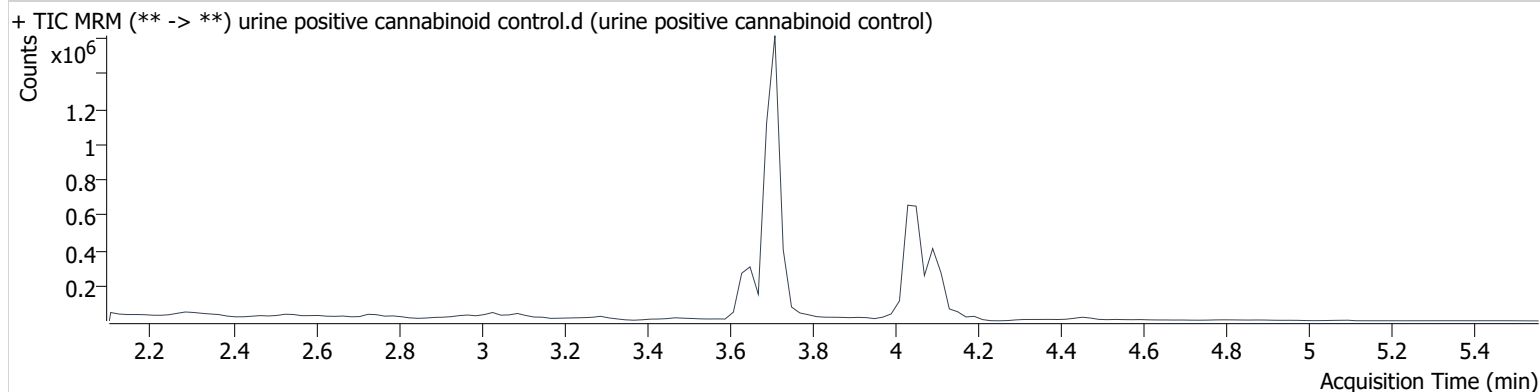


AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	urine positive cannabinoid control.d
Type	Sample	Sample	urine positive cannabinoid control
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-C4	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 11:30:14 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	24566	707484	3.943 ng/ml
THC-COOH	3.652	205061	345825	46.926 ng/ml
THC-OH	3.719	176036	2440148	39.308 ng/ml

Toxicology AM method 27/26 external prep information

BWylee

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

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH

Ppd 8/26/21 Exp: 8/26/22 lot 82621 by AMN

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

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

		Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	
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AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine

out of use

ppd 8/26/21 Exp 8/26/22 neg urine lot 5621	lot u82621	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

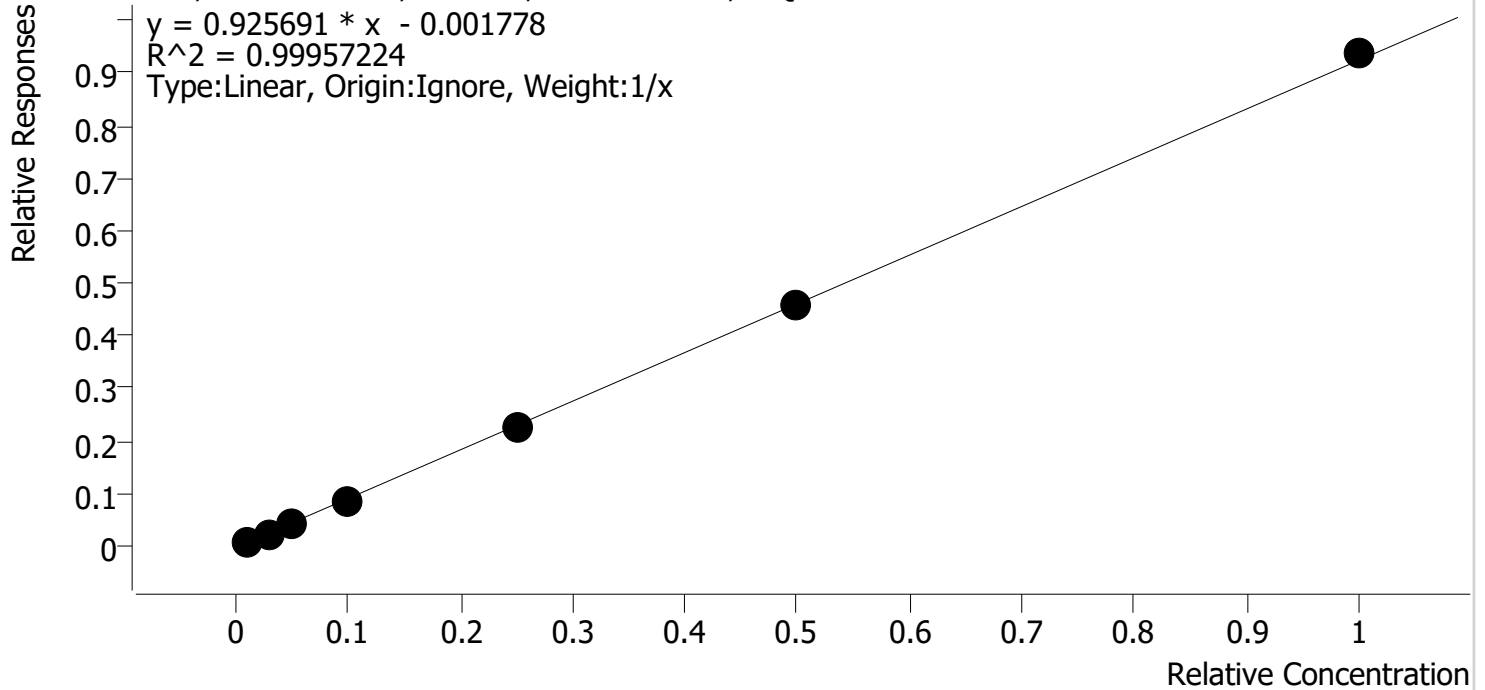
Compound Calibration Report

Byylee

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Last Cal. Update 9/16/2021 6:49 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	112.6
cal 2	2	✓	3.0	2.9	96.0
cal 3	3	✓	5.0	4.8	96.4
cal 4	4	✓	10.0	9.6	95.9
cal 5	5	✓	25.0	24.7	98.7
cal-6	6	✓	50.0	49.6	99.1
cal-7	7	✓	100.0	101.4	101.4

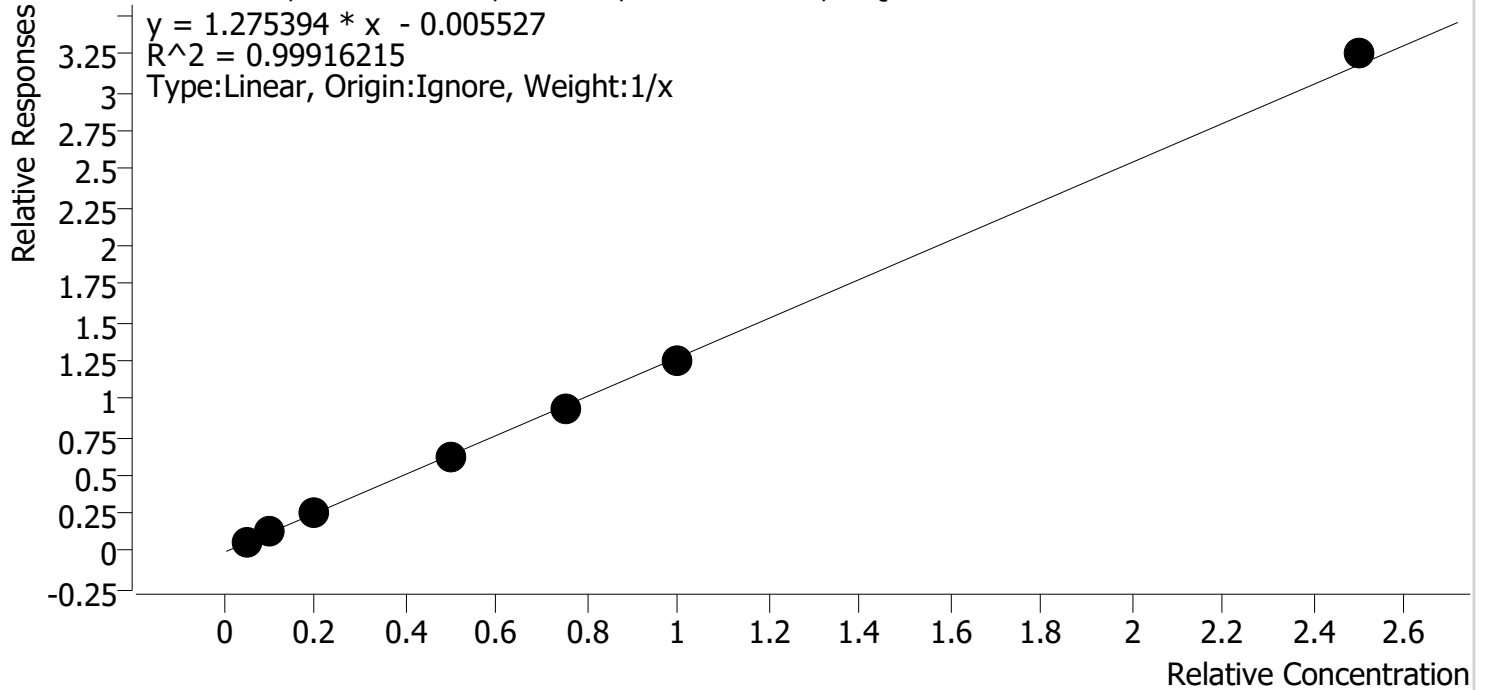
Compound Calibration Report

Byylee

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Last Cal. Update 9/16/2021 6:49 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	5.4	108.1
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	20.0	19.4	97.1
cal 4	4	✓	50.0	48.5	96.9
cal 5	5	✓	75.0	73.4	97.8
cal-6	6	✓	100.0	97.6	97.6
cal-7	7	✓	250.0	255.8	102.3

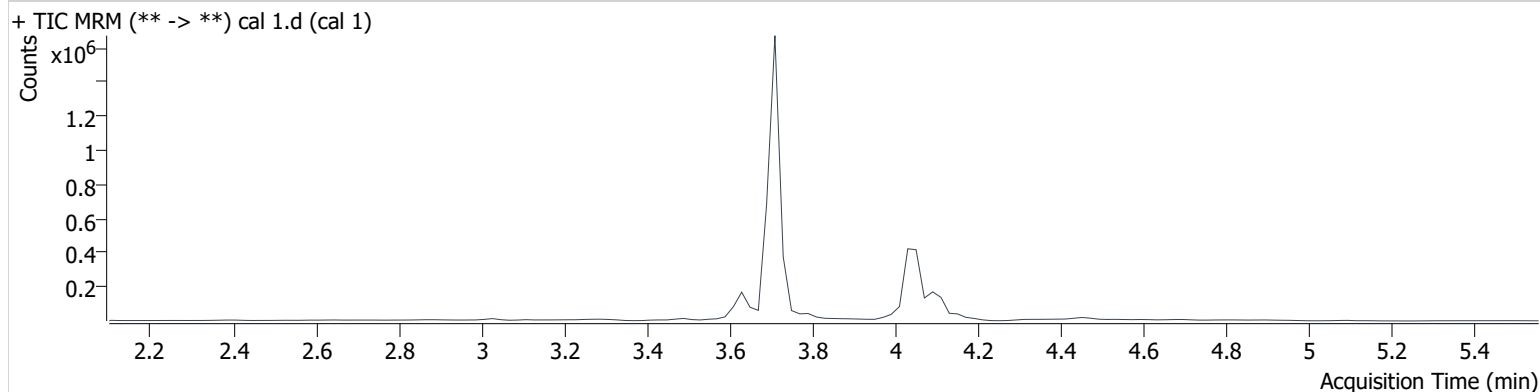
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal 1.d
Type	Cal	Sample	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-A1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 8:38:43 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.104	2507	289929	1.126 ng/ml	Low
THC-COOH	3.632	23528	371033	5.405 ng/ml	Low
THC-OH	3.719	6365	3350779	1.084 ng/ml	Low

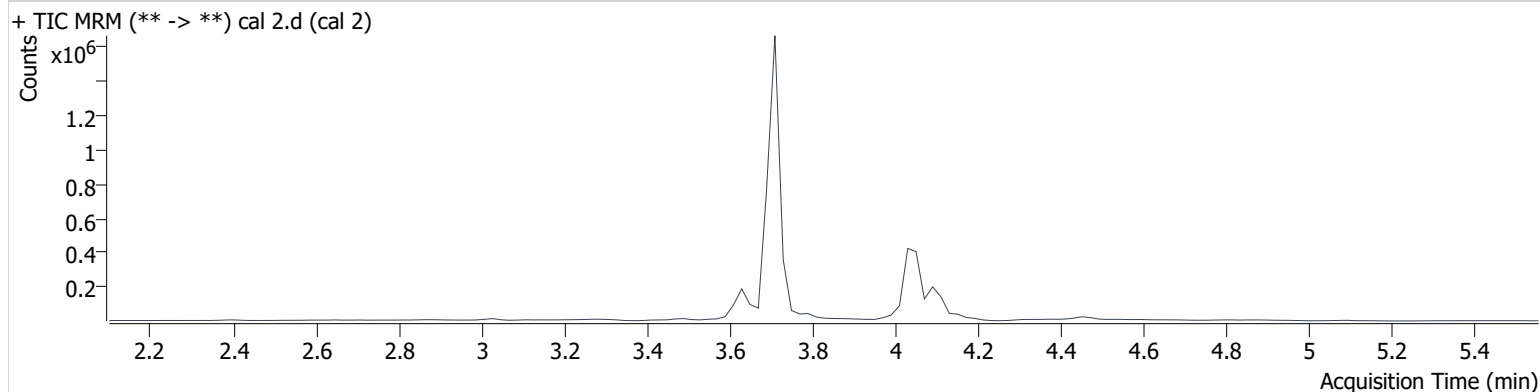
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal 2.d
Type	Cal	Sample	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-B1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 8:45:21 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.104	8009	322042	2.879 ng/ml	Low
THC-COOH	3.632	46145	377585	10.016 ng/ml	
THC-OH	3.719	18170	3337138	3.013 ng/ml	

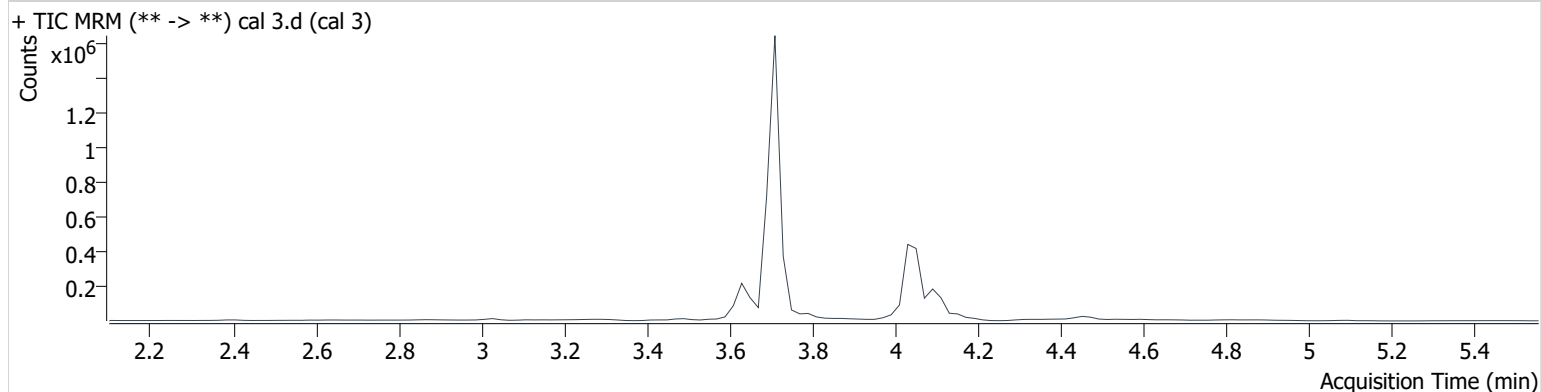
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal 3.d
Type	Cal	Sample	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-C1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 8:51:57 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	12450	290604	4.820 ng/ml
THC-COOH	3.632	88034	363478	19.423 ng/ml
THC-OH	3.719	27779	3174151	4.812 ng/ml

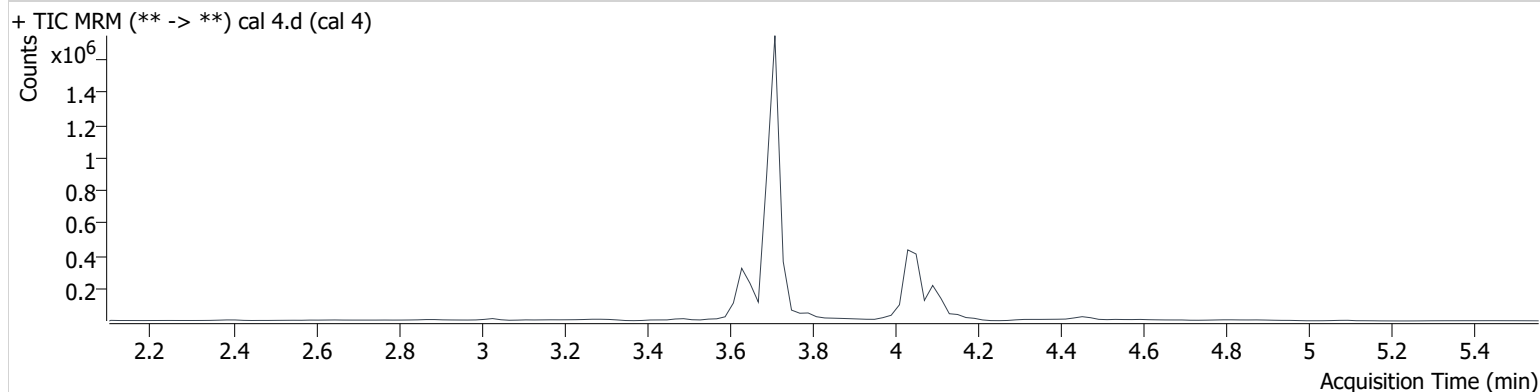
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal 4.d
Type	Cal	Sample	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-D1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 8:58:33 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	28314	325615	9.586 ng/ml
THC-COOH	3.632	219615	358536	48.460 ng/ml
THC-OH	3.719	56911	3240823	9.606 ng/ml

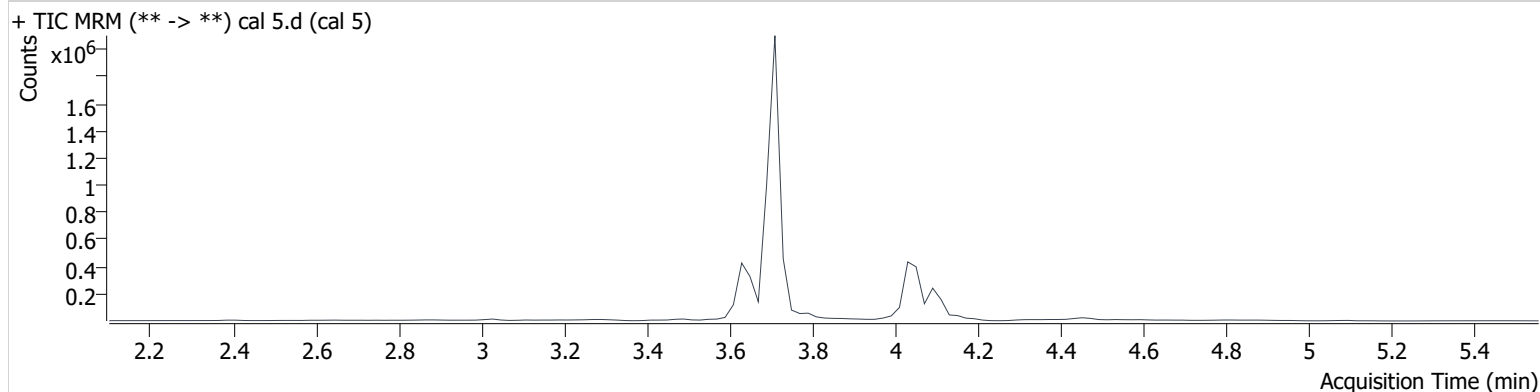
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal 5.d
Type	Cal	Sample	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-E1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 9:05:09 PM		

Sample Info.

Sample Chromatogram



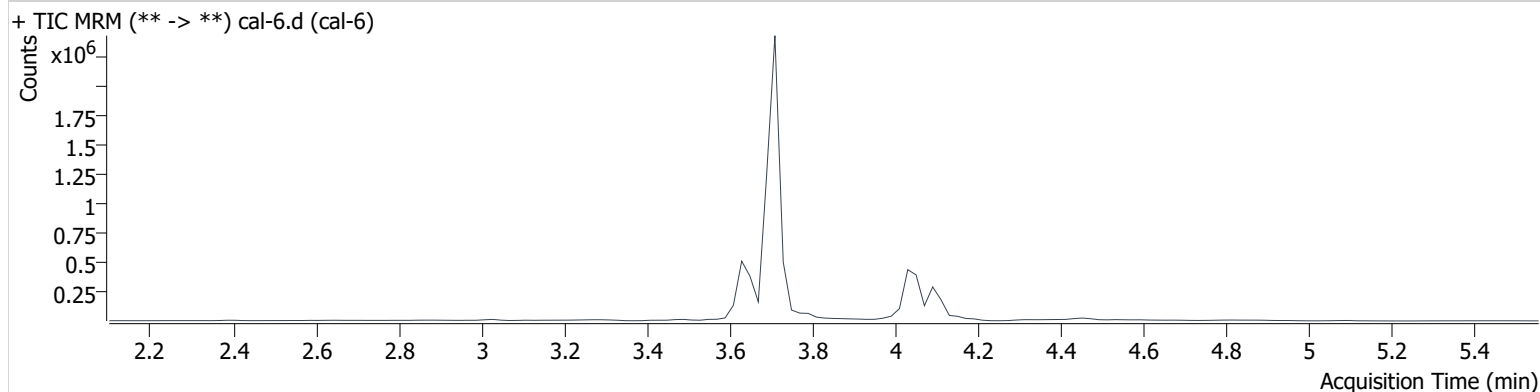
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	73630	324881	24.675 ng/ml
THC-COOH	3.632	335998	361142	73.381 ng/ml
THC-OH	3.719	144226	3211378	24.490 ng/ml

AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal-6.d
Type	Cal	Sample	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-F1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 9:11:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	146055	319569	49.565 ng/ml
THC-COOH	3.632	425595	343585	97.555 ng/ml
THC-OH	3.719	270891	2953963	49.954 ng/ml

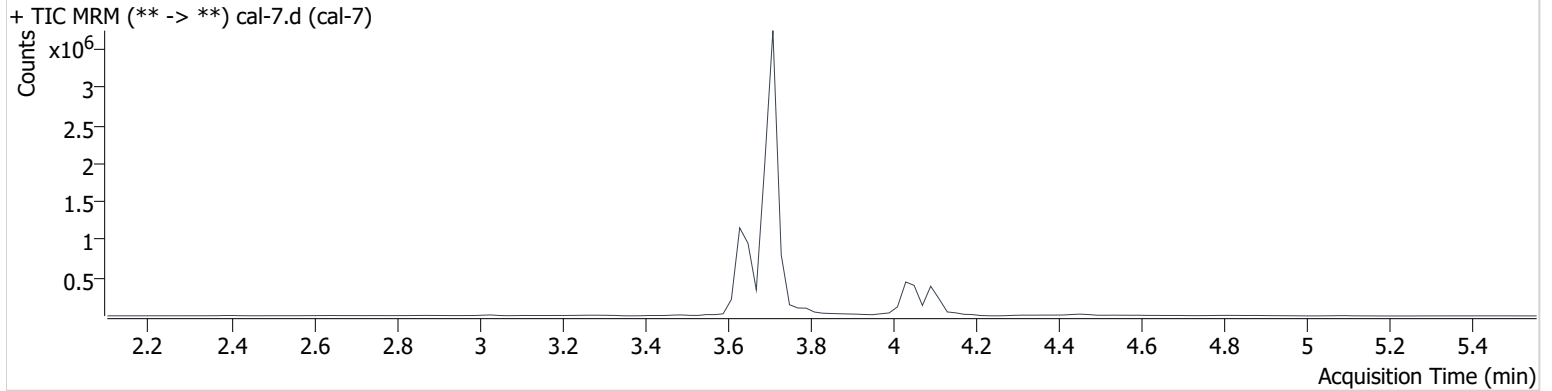
AM #26 Cannabinoids Screen Results *BWylie*

Batch results D:\MassHunter\Data\2021\am 25\091521\QuantResults\cann.batch.bin
Calibration Last Update 9/16/2021 6:49:18 AM

Instrument	69679	Data File	cal-7.d
Type	Cal	Sample	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Britany Wylie
Sample Position	P3-G1	Comment	
Injection Volume	5		
Acq. Date-Time	9/15/2021 9:18:21 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	292630	312501	101.350 ng/ml
THC-COOH	3.632	1160726	356444	255.759 ng/ml
THC-OH	3.719	591074	3184949	101.042 ng/ml