

**Worklist: 4912**

REVIEWED

By Britany Wylie at 2:49 pm, Apr 19, 2021

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2021-0602	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0613	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0711	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0719	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0727	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0728	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0734	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0748	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0779	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0789	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0792	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0793	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0795	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0836	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0838	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0844	1	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0844	2	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0844	3	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0851	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0858	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0861	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 4/14/21 Analyst: Anne Nord  
Plate lot#: 200511 Plate Expiration: 11/11/2020

**Mobile phase A:** 10mM Amm Form  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.1% Formic Acid in MeOH  
Ethyl Acetate LC Methanol

**Blank Blood Lot:** 20J20793 **Blank Urine lot:** 2121 **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: 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. add 50 ul 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: Due to the extraction occurring after the expiration of the analytical plate, an external control was included with this run as specified in the analytical method.

~~A~~

	1	2	3	4	5	6	7	8	9	10	11	12
A		728-1	838-1		844-3	844-2						
B	Cal 1	779-2			negative urine	844-1						
C		789-1			external urine	836-1						
D		792-1			574-1	795-3						
E	negative blood	851-1				861-1						Cal 2
F	external control blood	719-1				858-1						Cal 2
G	602-1	727-1				734-1						Cal 1
H	613-1	793-1			748-1	711-2						Cal 1

lab number format  
C2021-0\_\_-\_\_

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendyramine, methamphetamine, alprazolam, methocarbamol, methylphenidate, morphine

Stock solution 1mg/ml 50 ul each in 4700 ul MeOH (Honeywell EA078-US)

ppd 4/14/21: Exp: 4/14/2022 lot 41422 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
Methylphenidate	FE01212007	2/1/2025
Morphine	FE03232010	4/1/2025

**AM 25/28 control 500 ul working solution (41422) in 4500 ul negative urine (1000ng/mL Expected concentration)**

ppd 4/14/22, exp 4/14/22 lot u41422 negative urine 2121 by AMN

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

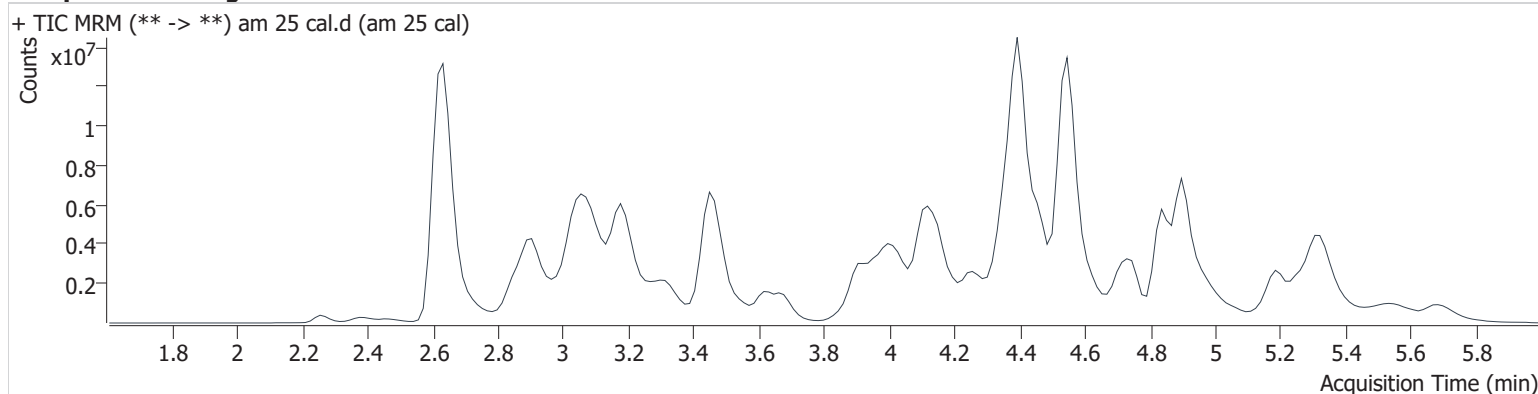
ppp 4/14/21, exp 4/14/22 lot b41422 neg blood 20J20793 by AMN

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/19/2021 10:27:12 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 cal.d
<b>Type</b>	Cal	<b>Sample</b>	am 25 cal
<b>Acq. Method</b>	mds 826.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P1-B1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/14/2021 5:10:06 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.538	35062	101.1	35260.7	1030865	10.000
7-aminoclonazepam	3.331	365242	290.1	170.2	1572143	10.000
7-aminoflunitrazepam	3.558	452365	308.2	130.1	1572143	10.000
Acetyl Fentanyl	4.686	289729	177.3	105.5	18014425	10.000
Acetyl Norfentanyl	2.910	179466	321.2	47.4	18014425	10.000
a-hydroxyalprazolam	4.302	130642	298.6	54556.6	1572143	10.000
alpha-hydroxymidazolam	4.409	1768650	356.4	754.3	1572143	10.000
alpha-PHP	4.511	1982158	3238.3	372.6	7007451	10.000
alpha-PVP	4.252	2762127	2014.9	98.4	7007451	10.000
Alprazolam	4.428	983078	491.9	413.6	7381582	10.000
Amitriptyline	5.315	1595625	621.4	914.2	7815409	10.000
Amphetamine	2.900	2874044	1252.3	1101.4	7007451	10.000
Benzoylcegonine	3.072	409149	3882.5	423.4	200790	10.000
Brompheniramine	4.717	84808	55.7	19.4	40777850	10.000
Buprenorphine	5.258	570698	1942.2	2455.0	2473248	10.000
Bupropion	4.404	2696714	1086.9	916.2	11934094	10.000
Carbamazepine	3.991	4005317	∞	645.4	53367	10.000
Carisoprodol	3.973	660954	1213.9	188.6	3781453	10.000
Chlordiazepoxide	4.538	411818	632.3	202.0	7381582	10.000
Chlorpheniramine	4.585	4814072	14361.2	18.2	40777850	10.000
Citalopram	4.625	2256356	227.7	1458.1	40777850	10.000
Clomipramine	5.687	2540804	3954.6	2294.8	40777850	10.000
Clonazepam	4.242	315165	182.3	293.0	7381582	10.000
Clonazolam	4.162	380401	1292.9	735.7	7381582	10.000
Cocaethylene	4.334	2818512	11212.0	1926.8	40777850	10.000
Cocaine	4.152	3609234	517.2	238.6	19889208	10.000
Codeine	3.450	291975	1116.5	103.4	148360	10.000
Cyclobenzaprine	5.179	3211613	601.1	114.0	7815409	10.000
Desipramine	4.724	184373	51724.2	13.0	7815409	10.000
Dextromethorphan	4.983	1970443	167.0	389.9	10334619	10.000
Dextrorphan	3.866	1792182	1542.9	132.1	10334619	10.000
Diazepam	4.676	696746	473.3	1088.0	7381582	10.000
Dihydrocodeine	3.070	722531	542.4	163.4	2500453	10.000
Diphenhydramine	4.572	6416862	7218.1	496.8	40777850	10.000



# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.965	1687618	127.2	48.1	14779010	10.000
Doxylamine	4.033	6021410	5092.0	1550.0	10334619	10.000
EDDP	4.432	4896585	627.4	242.4	2500453	10.000
Estazolam	4.338	2223811	633.6	800.5	7381582	10.000
Etizolam	4.470	93923	710.3	44892.8	7381582	10.000
Fentanyl	4.853	228992	159.6	91892.5	12740215	10.000
Flualprazolam	4.285	496604	259257.8	295460.4	7381582	10.000
Flunitrazepam	4.366	1051212	405.6	1117.8	7381582	10.000
Fluoxetine	4.734	1876376	350.3	254.8	4441162	10.000
Flurazepam	4.805	2365958	843303.6	4443.7	7381582	10.000
Hydrocodone	4.046	937652	107.7	40.7	5637795	10.000
Hydromorphone	2.861	666950	107.8	75.6	148360	10.000
Imipramine	5.328	6171477	5189.0	357.6	7815409	10.000
Ketamine	4.205	2168885	1309.6	184.7	13428885	10.000
Lamotrigine	3.424	162769	213.6	454.1	40777850	10.000
Levamisole	3.550	1272664	143.9	82.7	10334619	10.000
Levetireacetam	2.262	484424	850.9	691.4	40777850	10.000
Lorazepam	4.210	41482	53.5	64.3	7381582	10.000
Maprotiline	5.315	1022889	43.1	2319.7	7815409	10.000
MDA	3.125	2040780	151.1	∞	17691292	10.000
MDEA	3.473	2899783	631.5	727.6	17691292	10.000
MDMA	3.307	3286321	7315.0	326.1	17691292	10.000
Meperidine	4.265	1934468	260.1	4236.9	10334619	10.000
Meprobamate	3.366	200060	573.0	119.6	3781453	10.000
Methadone	4.855	4564332	422.0	595.9	2500453	10.000
Methamphetamine	3.096	13699835	∞	∞	17691292	10.000
Methocarbamol	3.273	144153	297.1	151.2	2500453	10.000
Methylphenidate	3.930	5863581	562.6	391.5	13428885	10.000
Metoprolol	3.620	468663	243.5	164.9	10334619	10.000
Midazolam	4.624	419210	809.3	2678.6	7381582	10.000
Mirtazapine	4.724	2392685	909.7	1602.8	10334619	10.000
Mitragynine	4.864	286141	157.2	118.1	10334619	10.000
Morphine	2.470	189782	302.0	883.0	148360	10.000
Norbuprenorphine	4.513	55059	19086.7	27743.2	2473248	10.000
Nordiazepam	4.509	510315	274.2	524.2	7381582	10.000
Norfentanyl	3.472	3467039	547.2	155.5	18014425	10.000
Norhydrocodone	3.254	51499	49.3	23.6	5637795	10.000
norketamine	4.007	407489	257.4	2286.0	13428885	10.000
Normeperidine	3.915	2024081	461.9	600.4	40777850	10.000
Noroxycodone	3.055	685428	128.8	383.8	7706848	10.000
Nortriptyline	5.408	1604793	301.6	192.6	7815409	10.000
O-desmethyl-tramadol	2.909	4335482	659.6	514.0	40777850	10.000
Olanzapine	4.581	1096019	660.5	374.1	53367	10.000
Oxazepam	4.292	292595	147.3	46.9	1855234	10.000
Oxycodone	3.251	1657618	616.9	1084.7	7706848	10.000
Oxymorphone	2.375	979798	271.2	459.8	148360	10.000
Paroxetine	5.700	45785	10.6	31.7	4441162	10.000
Phenazepam	4.454	668105	544.2	117441.0	7381582	10.000
Phencyclidine	4.373	3257663	315.0	171.4	10334619	10.000
Phentermine	3.202	38079	52.5	∞	13428885	10.000
Phenytoin	3.882	102426	69.0	101.3	53367	10.000
Promethazine	5.191	6577625	709.7	381.6	40777850	10.000
Pseudoephedrine	2.642	51081171	1520.0	4365.4	17691292	10.000
Quetiapine	4.744	3197481	863.9	975.7	22840699	10.000
Sertraline	5.520	864530	556.2	792.5	4441162	10.000
Sufentanil	5.064	207195	1462.4	546.7	18014425	10.000
Tapentadol	3.626	2954330	499.3	783.6	2500453	10.000
Temazepam	4.476	1401180	259.5	102.5	7381582	10.000
Tramadol	3.682	4557615	974.7	45.4	40777850	10.000



# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Trazodone	4.913	2784108	22365.2	1028744. 2	14779010	10.000
Venlafaxine	4.155	3973965	22291.2	309.5	4441162	10.000
Zaleplon	4.152	835845	7759.9	246.6	22840699	10.000
Zolpidem	4.413	4449892	36264.9	690.8	22840699	10.000
Zopiclone	4.452	260639	394.7	482.7	1262378	10.000

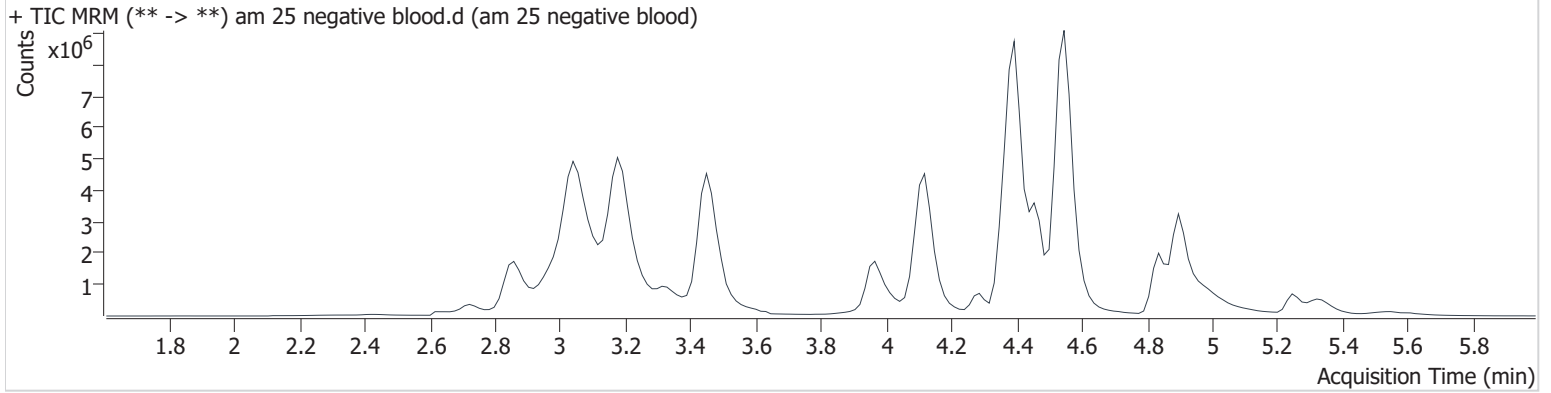
GA

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/19/2021 10:27:12 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative blood
<b>Acq. Method</b>	mds 826.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/14/2021 5:16:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





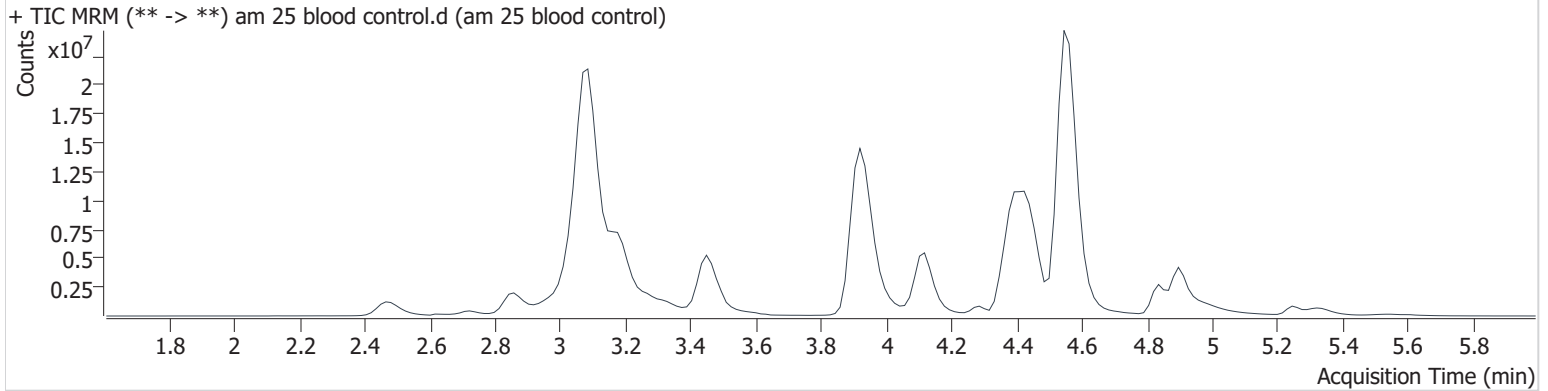
GA

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/19/2021 10:27:12 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 blood control.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 blood control
<b>Acq. Method</b>	mds 826.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P1-F1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/14/2021 5:23:29 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.428	11590117	2765.3	1003.1	8866547	98.151
Diphenhydramine	4.572	49926074	860.7	1440.6	38502728	82.402
Methamphetamine	3.096	47549594	∞	∞	19460237	31.553
Methocarbamol	3.273	1379136	3945.0	365.7	2858485	83.689
Methylphenidate	3.930	49999687	50862.7	1116.5	14574366	78.570
Morphine	2.470	2005076	∞	15697.3	170442	91.964

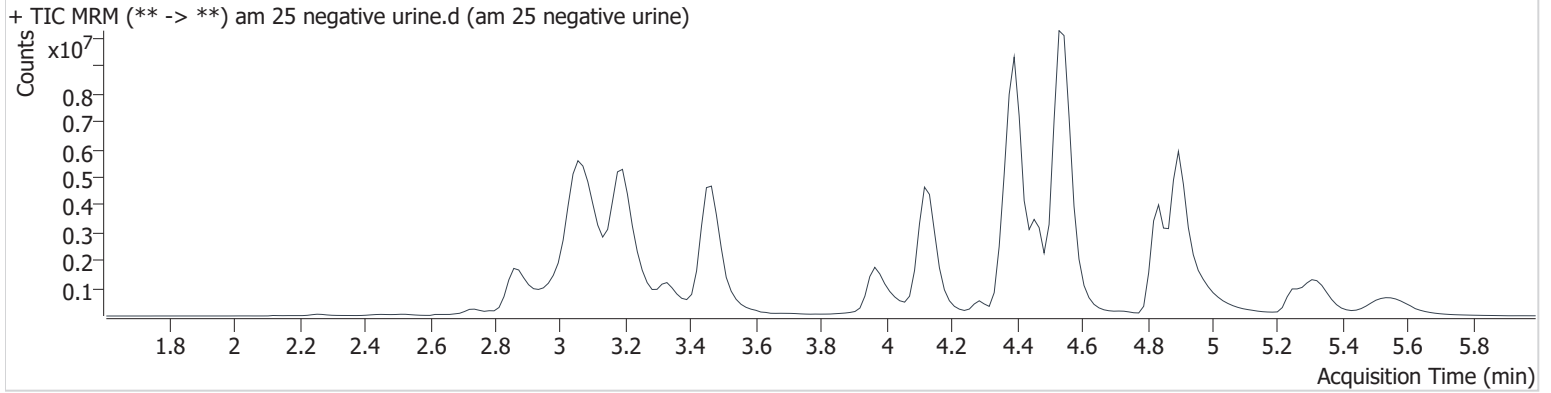
GA

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/19/2021 10:27:12 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative urine.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative urine
<b>Acq. Method</b>	mds 826.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P1-B5	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/14/2021 6:50:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

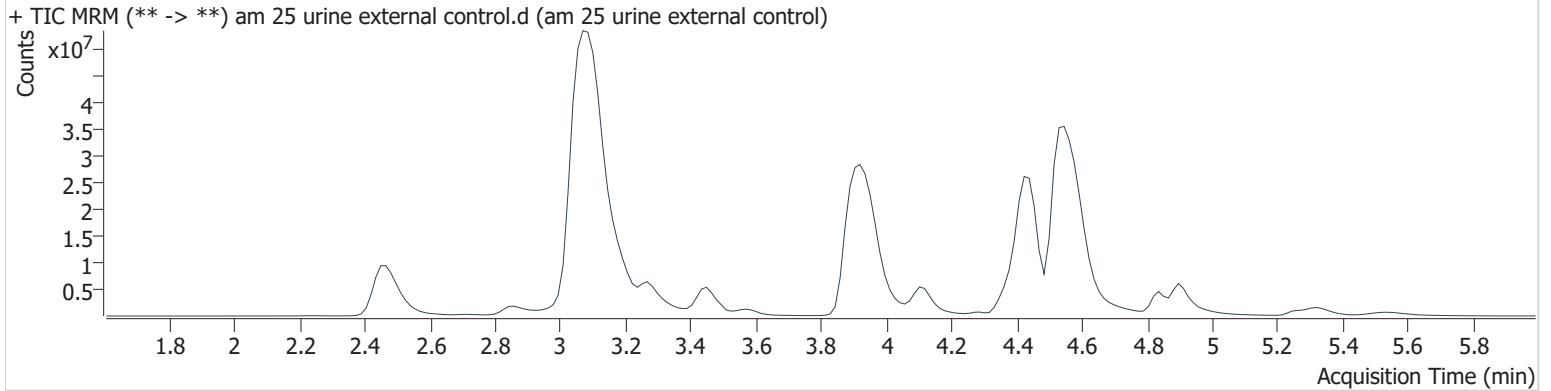


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/19/2021 10:27:12 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 urine external control.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 urine external control
<b>Acq. Method</b>	mds 826.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P1-C5	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	4/14/2021 6:57:20 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.444	49241135	1465.1	29548.5	6360797	581.270
Diphenhydramine	4.556	120596687	33840.7	111565.8	31809596	240.923
Methamphetamine	3.096	123312359	∞	∞	15500858	102.729
Methocarbamol	3.273	8198054	19478.4	3406.6	2649722	536.669
Methylphenidate	3.930	121485236	93177.0	155918.0	12926966	215.231
Morphine	2.455	17030992	57247.4	2868.0	193389	688.449

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

Extraction Date: 4/14/21 Analyst: Anne Nord

Plate lot#: 201206 Plate Expiration: 06/06/2021

**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:** 20J20793 **Urine Blank:** 2121

**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 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: *Cal 1 was re-injected and evaluated the internal standard response with shifted and a bit low for THC in the first injection.*

~~A~~

	1	2	3	4	5	6
a	cal 1	neg blood	719-1 moved to A5 SLE well clogged	844-1	719-1	QC 1
b	cal 2	602-1	727-1	836-1		cal 100 ng
c	cal 3	613-1	793-1	795-3		cal 50 ng
d	cal 4	728-1	838-1	861-1		cal 25 ng
e	Cal 5	779-2	urine external	858-1		cal 10ng
f	cal 6	789-1	negative urine	734-1		cal 5 ng
g	cal 7	792-1	844-3	711-2		cal 3 ng
h	Internal control	851-1	844-2	748-1		cal 1ng

C2021-0\_\_-\_\_

# Toxicology AM method 27/26 external prep information



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 8/26/20 Exp: 7/1/21 lot 82620 by AMN

Drug	lot	expiration
C-THC	FE01061702	3/1/2022
THC-OH	FE07221601	7/1/2021
THC	FE01041701	3/1/2022

## 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	
--	--	--------------------------------------------------------	--

## AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine

out of use

ppd 8/26/20 Exp 7/1/21 neg urine lot 73020	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	10/4/2020
ppd 10/5/20 Exp 7/1/21 neg urine lot 10120	lot 10520	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	1/12/2021
ppd 1/13/21 Exp 7/1/21 neg urine lot 10120	lot 11321	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	3/28/2021
ppd 3/29/21 Exp 7/1/21 neg urine lot 2121	lot 32921	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

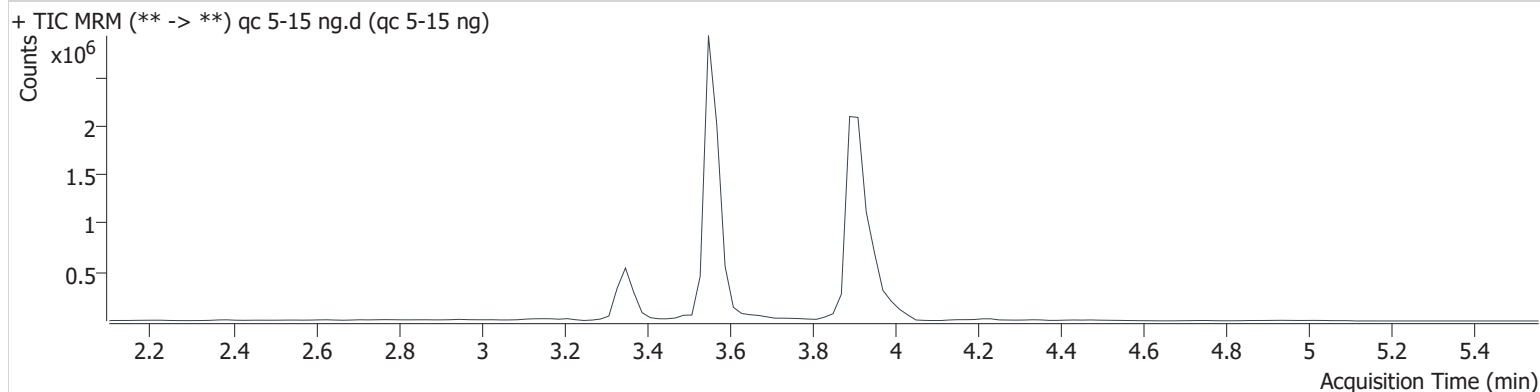
OA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-15 ng.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-15 ng
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:50:31 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	19611	630524	3.536 ng/ml
THC-COOH	3.351	189493	922302	14.579 ng/ml
THC-OH	3.558	41423	7151315	3.999 ng/ml

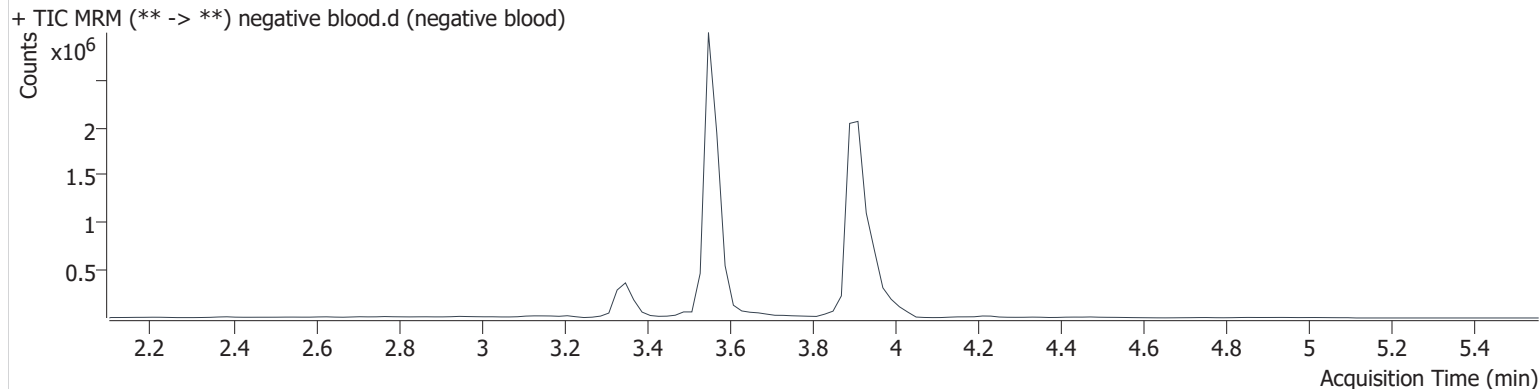
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A2	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:57:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



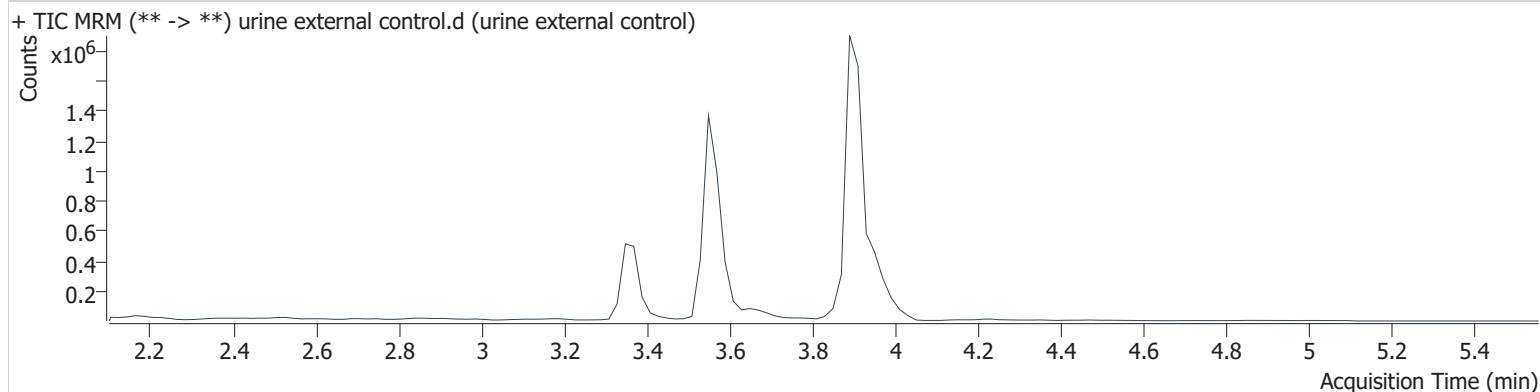


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	urine external control.d
<b>Type</b>	Sample	<b>Sample</b>	urine external control
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-E3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 3:22:56 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	59598	607703	11.386 ng/ml
THC-COOH	3.371	362949	660842	38.959 ng/ml
THC-OH	3.558	193625	2501393	51.899 ng/ml

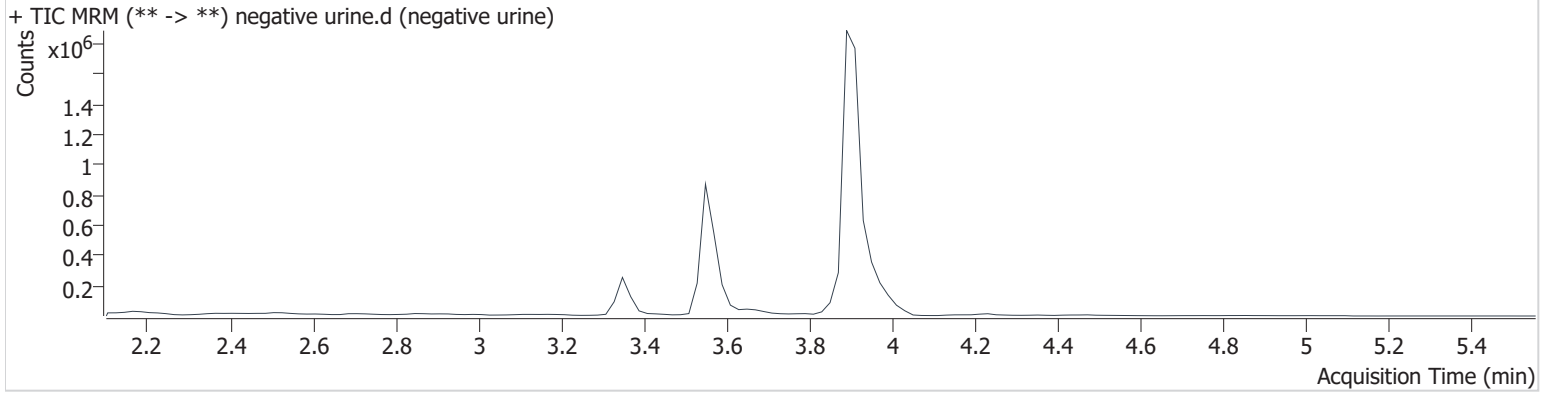
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-F3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 3:29:32 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



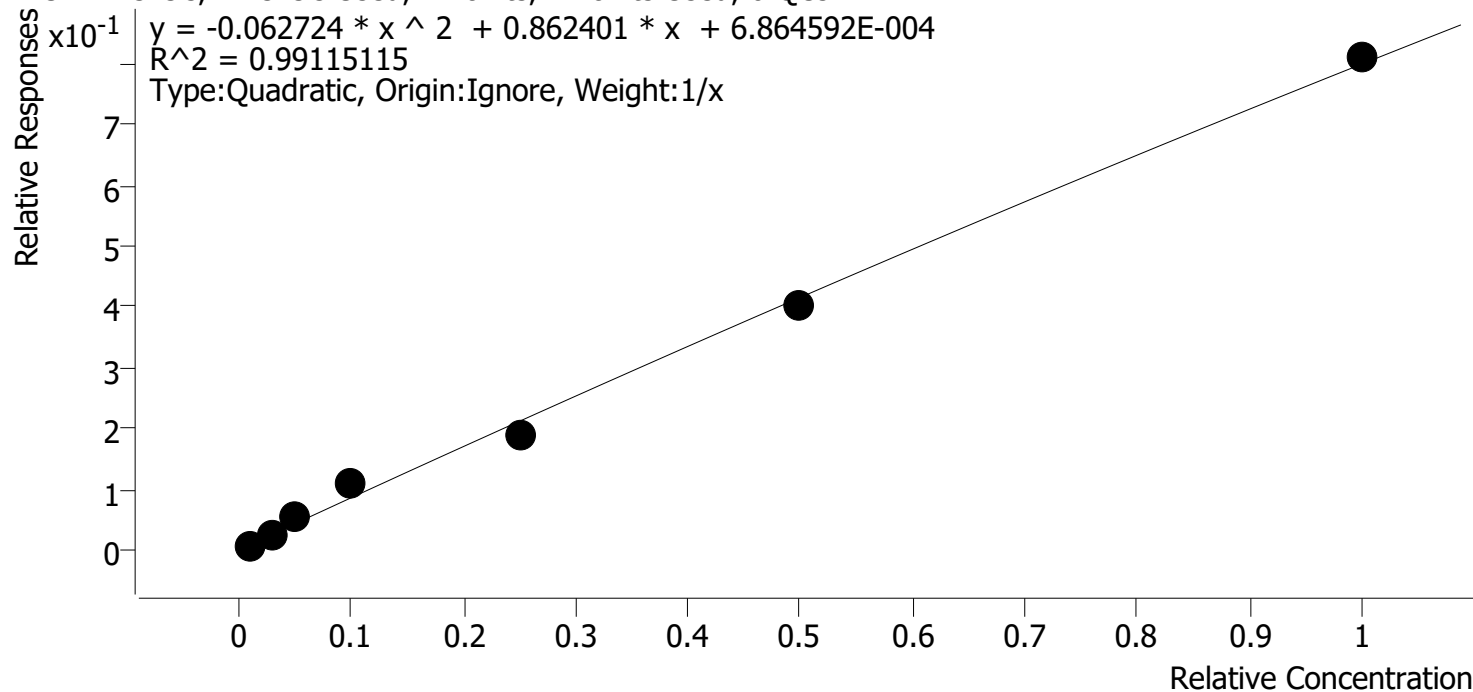
# Compound Calibration Report



**Batch results**            D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Last Cal. Update**        4/19/2021 10:24 AM  
**Analyst Name**            ISP\datastor  
**Analyte**                    THC

**Internal Standard**        THC-d3

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

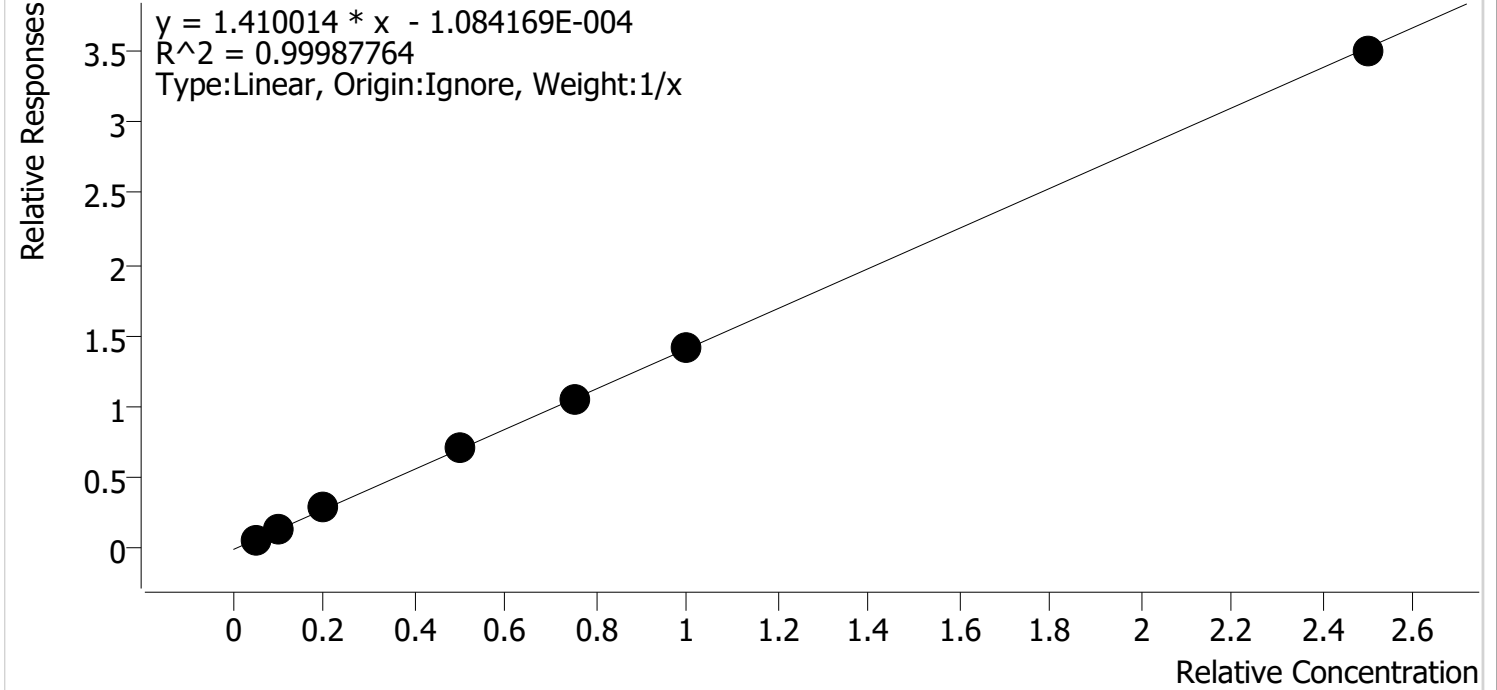


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	0.8	78.3
cal 2	2	✓	3.0	2.5	84.8
cal 3	3	✓	5.0	6.2	124.6
cal 4	4	✓	10.0	12.5	124.8
cal 5	5	✓	25.0	22.5	90.0
cal-6	6	✓	50.0	48.1	96.2
cal-7	7	✓	100.0	101.4	101.4

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Last Cal. Update** 4/19/2021 10:24 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

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



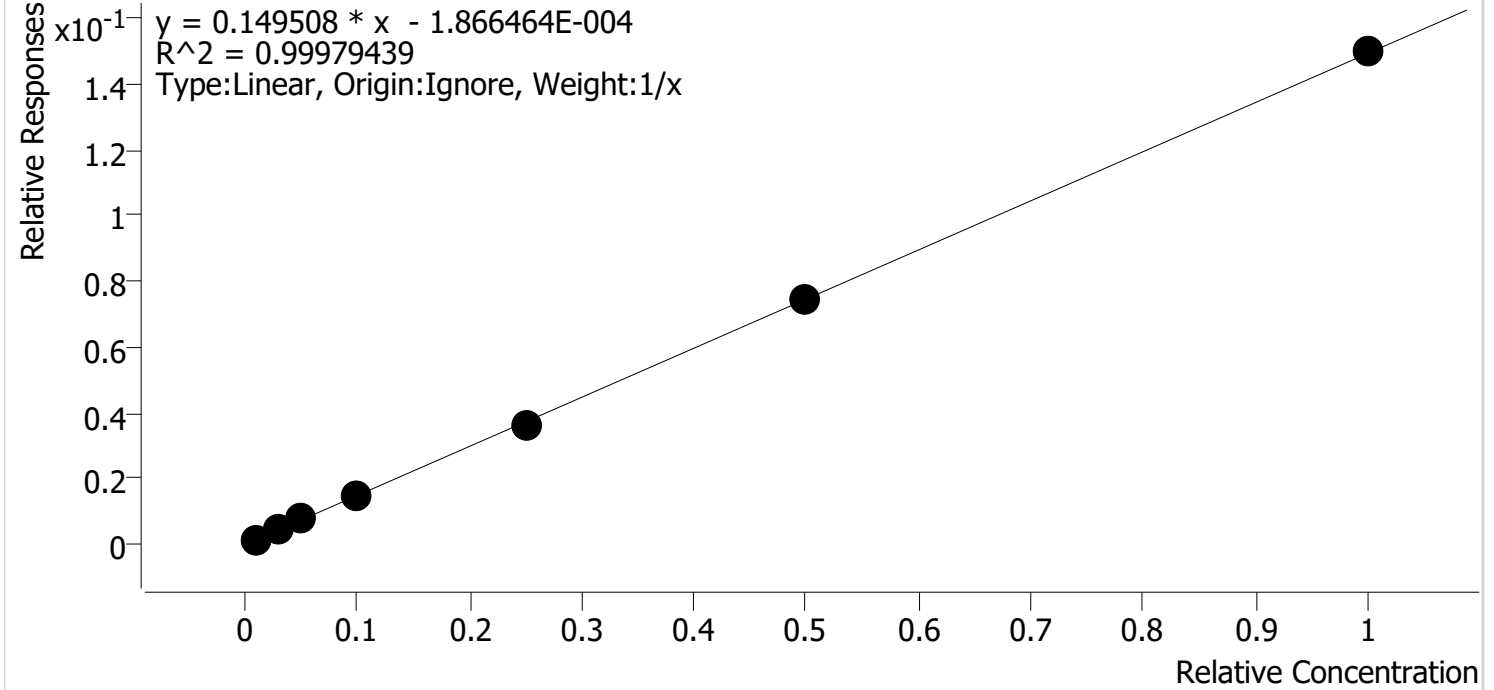
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.5
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	20.0	20.4	102.2
cal 4	4	✓	50.0	50.5	101.0
cal 5	5	✓	75.0	75.4	100.5
cal-6	6	✓	100.0	100.9	100.9
cal-7	7	✓	250.0	248.0	99.2

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Last Cal. Update** 4/19/2021 10:24 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	1.0	101.6
cal 2	2	✓	3.0	2.9	96.5
cal 3	3	✓	5.0	5.2	104.3
cal 4	4	✓	10.0	9.9	99.4
cal 5	5	✓	25.0	24.3	97.3
cal-6	6	✓	50.0	50.3	100.5
cal-7	7	✓	100.0	100.3	100.3

GA

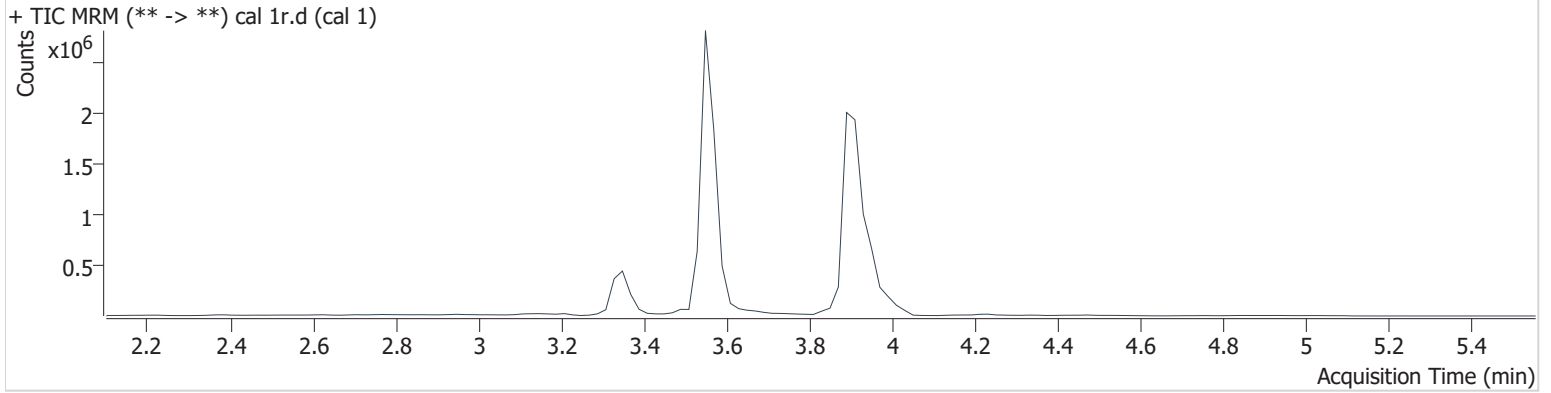
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1r.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 2:30:06 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	4863	654108	0.783 ng/ml <b>Low</b>
THC-COOH	3.351	71451	1040635	4.877 ng/ml <b>Low</b>
THC-OH	3.558	9685	7272996	1.016 ng/ml <b>Low</b>

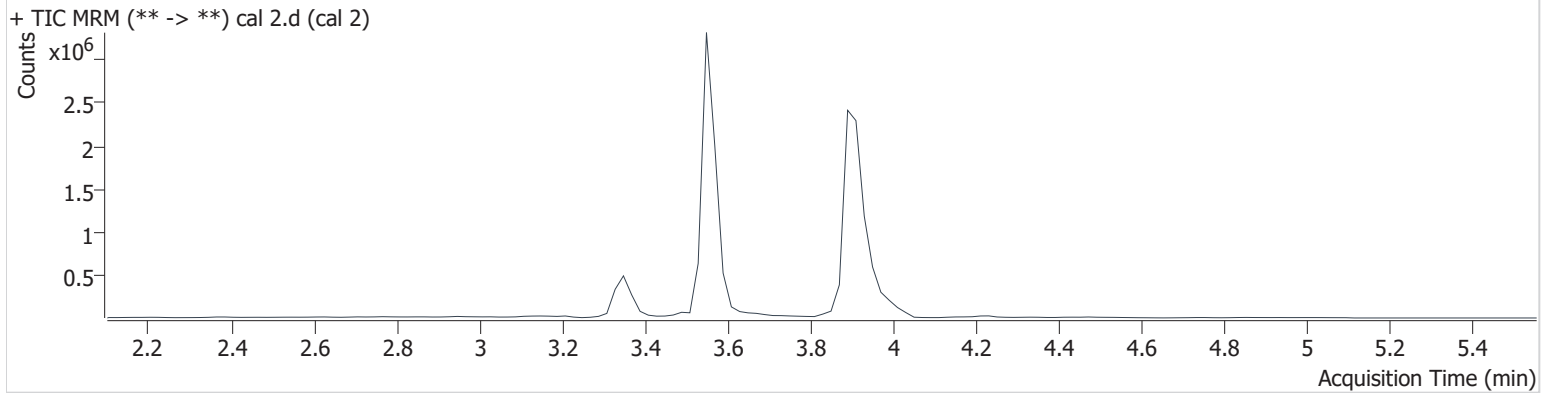
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-B1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:04:25 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	10925	483609	2.545 ng/ml <b>Low</b>
THC-COOH	3.351	134259	966682	9.858 ng/ml <b>Low</b>
THC-OH	3.558	32676	7886626	2.896 ng/ml <b>Low</b>

GA

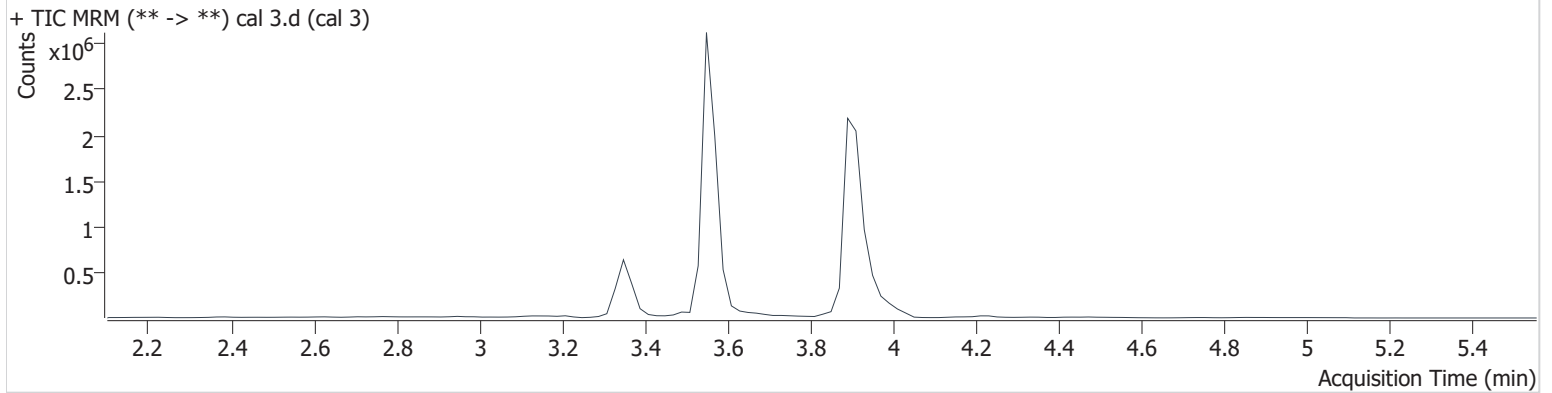
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:11:01 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	21585	398320	6.232 ng/ml
THC-COOH	3.351	271019	940852	20.437 ng/ml
THC-OH	3.558	56063	7364039	5.217 ng/ml



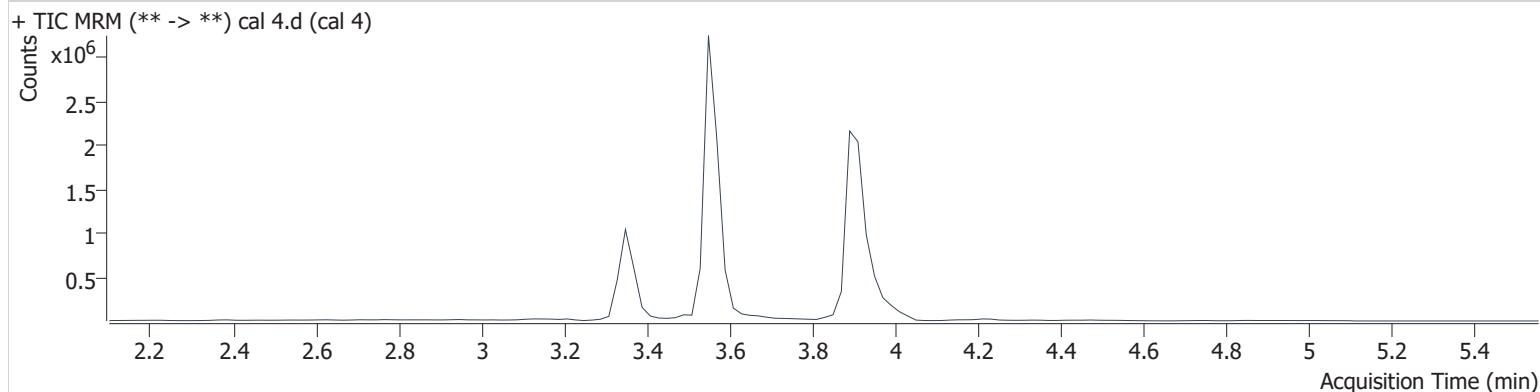
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-D1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:17:38 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



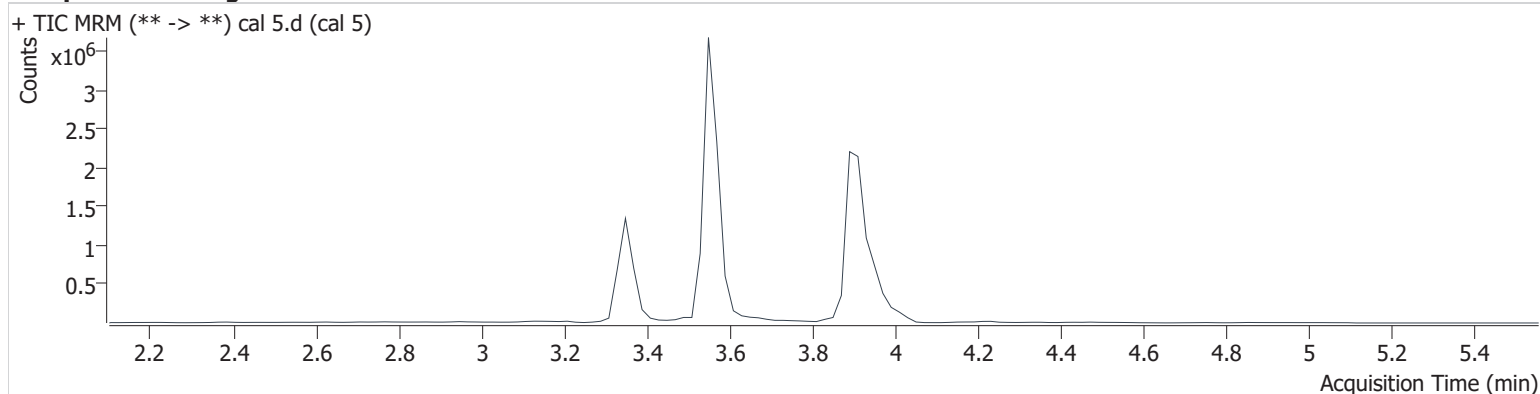
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	45144	420684	12.477 ng/ml
THC-COOH	3.351	673565	945682	50.522 ng/ml
THC-OH	3.558	106559	7264278	9.936 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-E1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:24:14 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	124627	650610	22.500 ng/ml
THC-COOH	3.351	981050	923025	75.387 ng/ml
THC-OH	3.558	257198	7106015	24.334 ng/ml

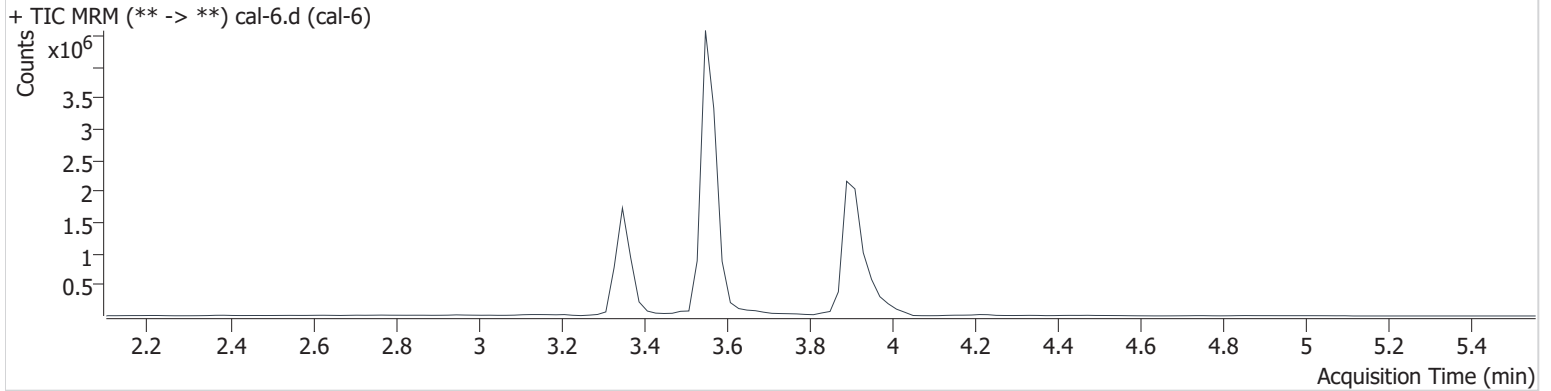
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal-6.d
<b>Type</b>	Cal	<b>Sample</b>	cal-6
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-F1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:30:50 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	171517	427866	48.085 ng/ml
THC-COOH	3.351	1344191	944480	100.943 ng/ml
THC-OH	3.558	548366	7314201	50.271 ng/ml

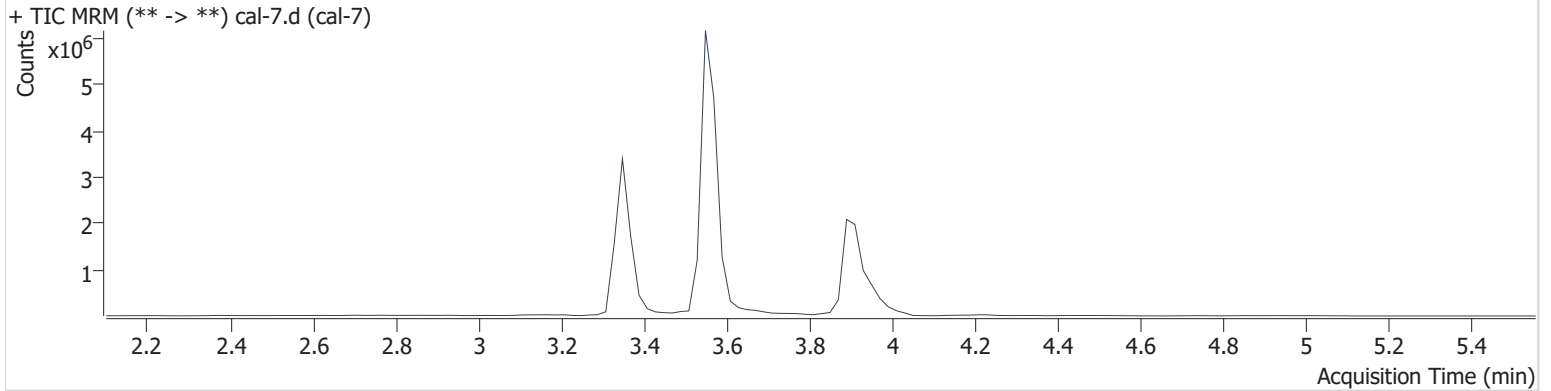
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\041421\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/19/2021 10:24:30 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal-7.d
<b>Type</b>	Cal	<b>Sample</b>	cal-7
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-G1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	4/14/2021 1:37:25 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	365512	450835	101.410 ng/ml
THC-COOH	3.351	3036231	868391	247.976 ng/ml
THC-OH	3.558	1071004	7148827	100.330 ng/ml