

10/6/2021

REVIEWED

By Brittany Wolfe at 2:03 pm Oct 12, 2021

**Worklist: 5273**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2021-2086		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2096		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2130		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2135		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2136		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2137		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2143		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2144		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2146		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2152		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2157		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2160	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2188		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2190		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2192		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2193	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2196		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2202		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2211		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2219		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2231		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: 10/06/21 Analyst: Anne Nord  
Plate lot#: 210611 Plate retest date: 12/11/21

**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:** 21D52496 **Blank Urine lot:** 83121 **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:



Toxicology AM method 25/28 urine external control prep

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

11/18/21 

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

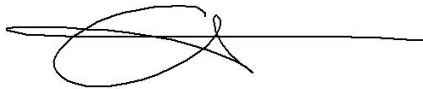
Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
methocarbamol	FN01212005	1/1/2023
alprazolam	FE06102008	6/1/2025
Diphendyramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

**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)**

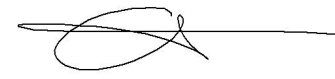
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN



	1	2	3	4	5	6	7	8	9	10	11	12
A		2143-1	2211-1						2219-1	2193-3		
B		2144-1							2196-1			
C	negative blood	2146-1							2160-2			
D		2157-1							2152-1			
E	2086-1	2188-1							2130-1			
F	2135-1	2190-1							2096-1			
G	2136-1	2192-1							urine control			cal 1
H	2137-1	2202-1						2231-1	negative urine			

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

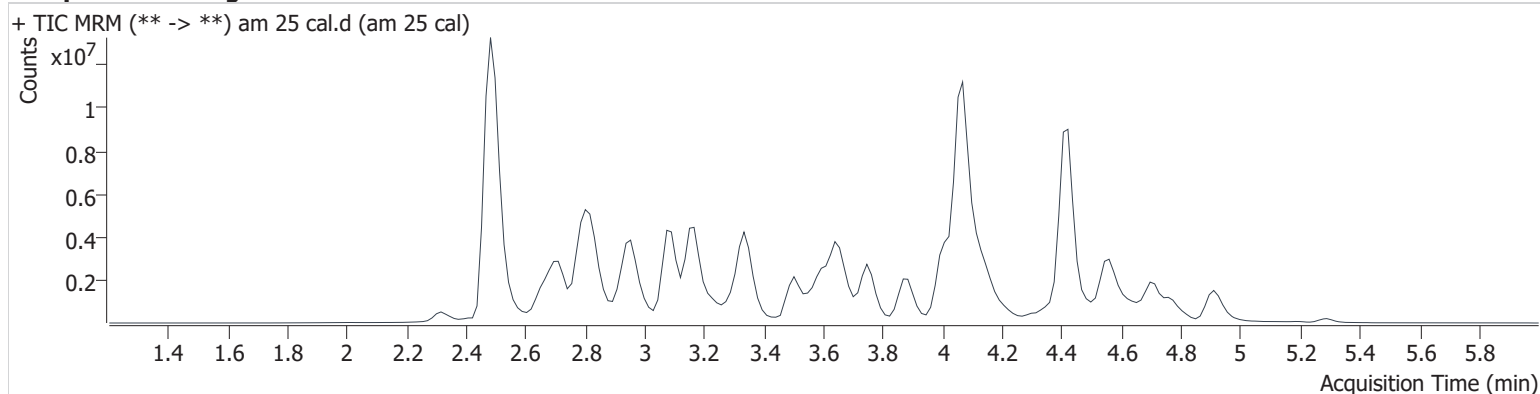
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\mds.batch.bin  
**Calibration Last Update** 10/7/2021 3:24:27 PM

<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>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-G12	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	10/6/2021 11:47:15 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.104	13082	41.9	26.0	528864	10.000
7-aminoclonazepam	3.354	87172	51.1	48004.0	610619	10.000
7-aminoflunitrazepam	3.583	326712	223.8	226.8	610619	10.000
Acetyl Fentanyl	4.347	110296	48.2	236.5	12079861	10.000
Acetyl Norfentanyl	2.687	172444	646.5	84.0	12079861	10.000
a-hydroxyalprazolam	4.392	19645	521.6	3.9 <b>Low</b>	610619	10.000
alpha-hydroxymidazolam	4.484	198486	94.6	57485.6	610619	10.000
alpha-PHP	4.063	1594964	252.6	125.9	3988512	10.000
alpha-PVP	3.758	2076281	1183.4	223.7	3988512	10.000
Alprazolam	4.503	532281	270845.0	271555.4	1849187	10.000
Amitriptyline	4.630	192268	67.2	46.4	1099314	10.000
Amphetamine	2.707	1617627	354.5	588.4	3988512	10.000
Benzoylcegonine	3.137	74800	226.7	27.2	114760	10.000
Brompheniramine	4.101	27428	14.8	8.5	23249547	10.000
Buprenorphine	5.302	2856	1016.0	63.1	480033	10.000
Bupropion	4.064	1943357	1390.1	813.4	7193470	10.000
Carbamazepine	4.079	1724084	1542.3	736.4	23550	10.000
Carisoprodol	4.062	202930	134.7	68.2	1228642	10.000
Chlordiazepoxide	4.627	124948	27.6	33.7	1849187	10.000
Chlorpheniramine	3.999	1463575	4823.5	19.3	23249547	10.000
Citalopram	4.084	883498	683.4	121.5	23249547	10.000
Clomipramine	4.900	183544	118.1	28.3	4056778	10.000
Clonazepam	4.317	49642	4061.1	3712.8	1849187	10.000
Clonazolam	4.220	165830	99718.2	37053.7	1849187	10.000
Cocaethylene	3.871	2335223	1106.8	465.5	23249547	10.000
Cocaine	3.672	1976512	890.5	122.4	10197865	10.000
Codeine	3.091	113580	225.6	157.8	114328	10.000
Cyclobenzaprine	4.507	363318	1747.8	8.1	1099314	10.000
Desipramine	4.385	546873	961.7	137.0	1099314	10.000
Dextromethorphan	4.153	639735	312.5	96.7	3612654	10.000
Dextrorphan	3.312	1218477	677.8	24863.9	3612654	10.000
Diazepam	4.750	227190	182.5	253.5	1849187	10.000
Dihydrocodeine	2.786	412908	1074.5	268.1	1778097	10.000
Diphenhydramine	4.093	2913373	434.6	415.8	23249547	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.306	401170	71.7	14.0	2978170	10.000
Doxylamine	3.600	4315454	8815.8	1229.7	3612654	10.000
EDDP	4.014	747442	143.6	2308.3	1778097	10.000
Estazolam	4.397	568186	153.5	642.9	1849187	10.000
Etizolam	4.499	14962	3707.5	4778.3	1849187	10.000
Fentanyl	4.561	53893	28.6	35571.4	2674262	10.000
Flualprazolam	4.346	331349	1051.5	97906.7	1849187	10.000
Flunitrazepam	4.441	259597	∞	805.7	1849187	10.000
Fluoxetine	4.318	202040	120387.6	4386.0	236214	10.000
Flurazepam	4.574	203891	108.8	18372.0	1849187	10.000
Hydrocodone	3.352	315879	655.3	213.7	2586818	10.000
Hydromorphone	2.636	371534	71.5	579.7	114328	10.000
Imipramine	4.552	914071	550.6	252.6	1099314	10.000
Ketamine	4.064	1518860	245.0	48.4	7523196	10.000
Lamotrigine	3.449	100469	60.4	360.8	23249547	10.000
Levamisole	3.238	1241247	214.4	111.9	3612654	10.000
Levetireacetam	2.325	256768	137.8	179.8	4056778	10.000
Lorazepam	4.300	7957	7.4	3.3 <b>Low</b>	1849187	10.000
Maprotiline	4.630	108055	29.7	54.7	1099314	10.000
MDA	2.826	978687	165.5	94.9	13435535	10.000
MDEA	3.100	2102231	566.2	91.2	13435535	10.000
MDMA	2.933	2311591	664.9	214.2	13435535	10.000
Meperidine	3.740	1078431	630.8	292.2	3612654	10.000
Meprobamate	3.452	75857	123.6	17.2	1228642	10.000
Methadone	4.410	1497118	233.6	296.2	1778097	10.000
Methamphetamine	2.828	3464163	∞	∞	13435535	10.000
Methocarbamol	3.358	72327	61.9	93.5	1778097	10.000
Methylphenidate	3.512	4165675	2197.7	765.5	7523196	10.000
Metoprolol	3.310	333433	1319.9	8245.0	3612654	10.000
Midazolam	4.684	147752	882.6	32291.5	1849187	10.000
Mirtazapine	4.570	1266862	1000.0	1550.5	3612654	10.000
Mitragynine	4.573	87117	72688.8	94241.6	3612654	10.000
Morphine	2.410	91033	228.5	529.7	114328	10.000
Norbuprenorphine	3.820	4067	2126.5	1857.2	114328	10.000
Nordiazepam	4.600	81970	147.8	66.4	1849187	10.000
Norfentanyl	3.175	2362571	3513.5	408.1	12079861	10.000
Norhydrocodone	2.789	12828	18.5	14.4	2586818	10.000
norketamine	4.003	205761	44.5	646.4	7523196	10.000
Normeperidine	3.512	972762	117.6	315.9	23249547	10.000
Noroxycodone	2.694	431666	326.5	122.6	3310784	10.000
Nortriptyline	4.447	135081	19.4	20.1	1099314	10.000
O-desmethyl-tramadol	2.731	4082652	1376.4	135.5	23249547	10.000
Olanzapine	4.148	297688	134.9	133.4	23550	10.000
Oxazepam	4.382	26585	119.7	12.1	184491	10.000
Oxycodone	2.998	542049	157.1	150.8	3310784	10.000
Oxymorphone	2.316	429741	160.3	118.4	114328	10.000
Paroxetine	4.361	9480	9.5	4.8 <b>Low</b>	236214	10.000
Phenazepam	4.529	77670	25177.5	16399.7	1849187	10.000
Phencyclidine	3.894	2275021	206.0	129.7	3612654	10.000
Phentermine	2.979	22818	38.5	∞	7523196	10.000
Phenytoin	3.970	45383	97.8	21.5	23550	10.000
Promethazine	4.675	1125158	423.9	129.3	23249547	10.000
Pseudoephedrine	2.492	42111831	1883.8	∞	13435535	10.000
Quetiapine	4.758	514591	344.8	93619.5	20733168	10.000
Sertraline	4.672	71273	7.8	72.2	236214	10.000
Sufentanil	4.971	19910	5092.2	58.6	12079861	10.000
Tapentadol	3.329	2404070	1481.3	162.2	1778097	10.000
Temazepam	4.551	278709	156.4	35.9	1849187	10.000
Tramadol	3.341	4038092	1831.8	11.6	23249547	10.000
Trazodone	4.926	429777	226071.9	333.3	2978170	10.000



# AM #25 Multi-Drug Screen Results

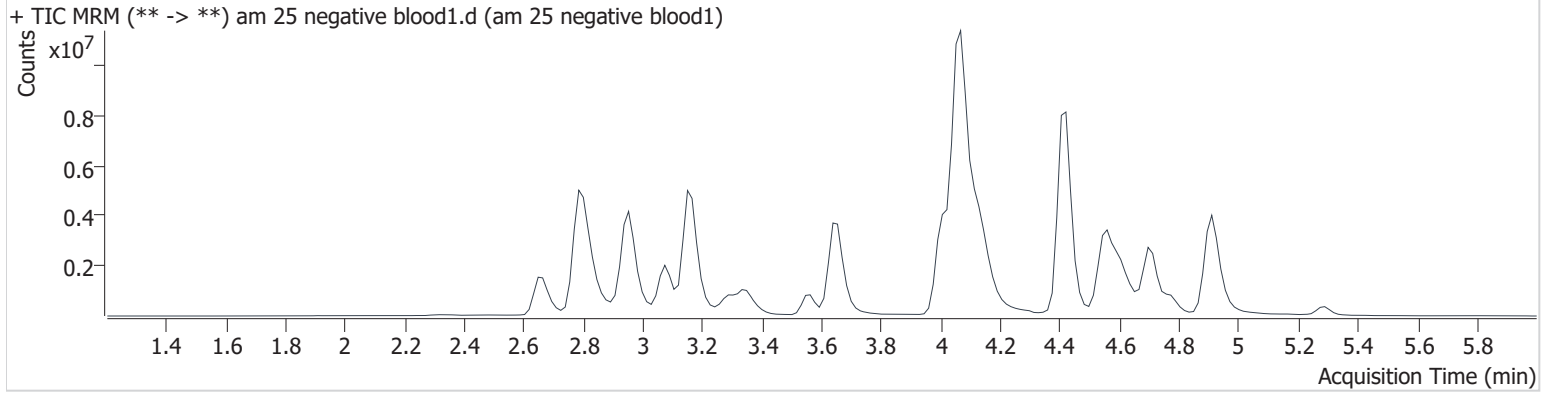
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.752	3433481	857.4	167.2	236214	10.000
Zaleplon	4.211	336411	496686.6	244.8	20733168	10.000
Zolpidem	4.427	3090566	4955.6	609.7	20733168	10.000
Zopiclone	4.435	98719	12779.3	207.6	769009	10.000

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\mds.batch.bin  
**Calibration Last Update** 10/7/2021 3:24:27 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative blood1.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative blood1
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	10/6/2021 11:53:58 AM		
<b>Sample Info.</b>			

## Sample Chromatogram



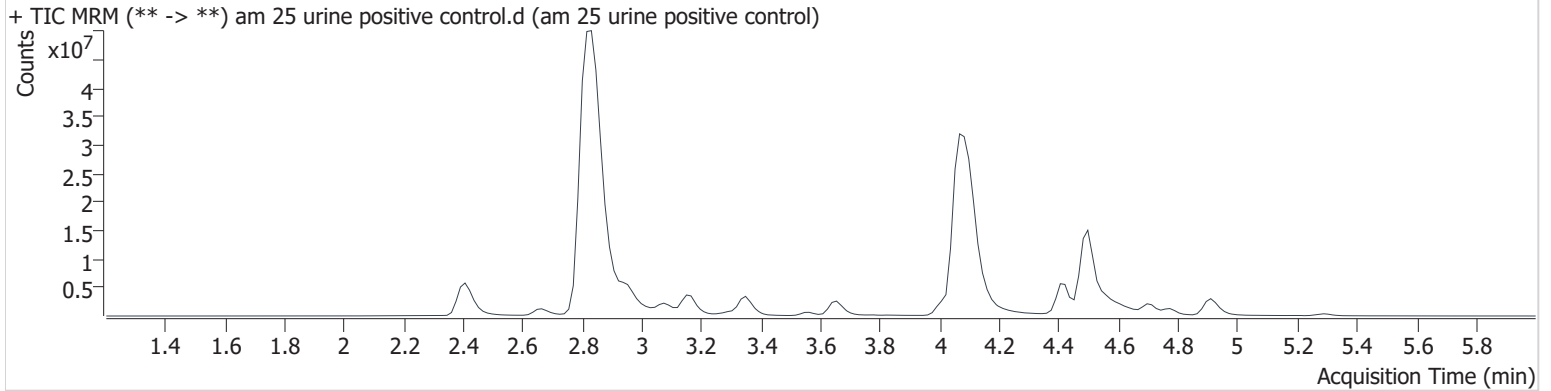


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\mds.batch.bin  
**Calibration Last Update** 10/7/2021 3:24:27 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 urine positive control.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 urine positive control
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-G9	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	10/6/2021 2:47:38 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



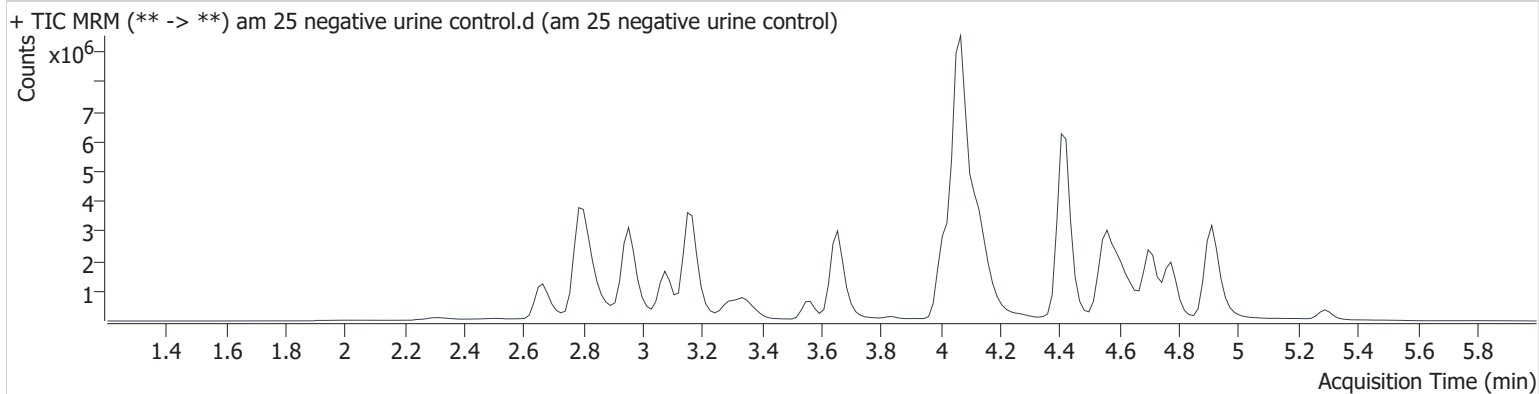
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.503	25256228	1960.3	12655.2	1455112	602.992
Diphenhydramine	4.093	81588249	11121.8	27861.5	22637293	287.622
Methamphetamine	2.843	88203853	∞	∞	11002393	310.926
Methocarbamol	3.358	4679731	2964.8	3139.3	1699758	676.843
Morphine	2.410	6736798	∞	2162.2	129188	654.916

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\mds.batch.bin  
**Calibration Last Update** 10/7/2021 3:24:27 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative urine control.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative urine control
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-H9	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	10/6/2021 2:54:20 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





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

Extraction Date: 10/6/21 Analyst: Anne Nord

Plate lot#: 210609 Plate Expiration: 12-9-21

**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:** 21D52496 **Urine Blank:** 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.

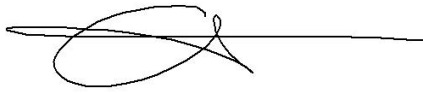
### Analytic:

- 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 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	neg blood	2146-1	2096-1		urine positive control
b	cal 2		2157-1	2130-1		
c	cal 3	2086-1	2188-1	2152-1		
d	cal 4	2135-1	2190-1	2160-2		
e	Cal 5	2136-1	2192-1	2193-3		
f	cal 6	2137-1	2202-1	2196-1		
g	cal 7	2143-1	2211-1	2219-1		
h	Internal control	2144-1	urine negative control	2231-1		

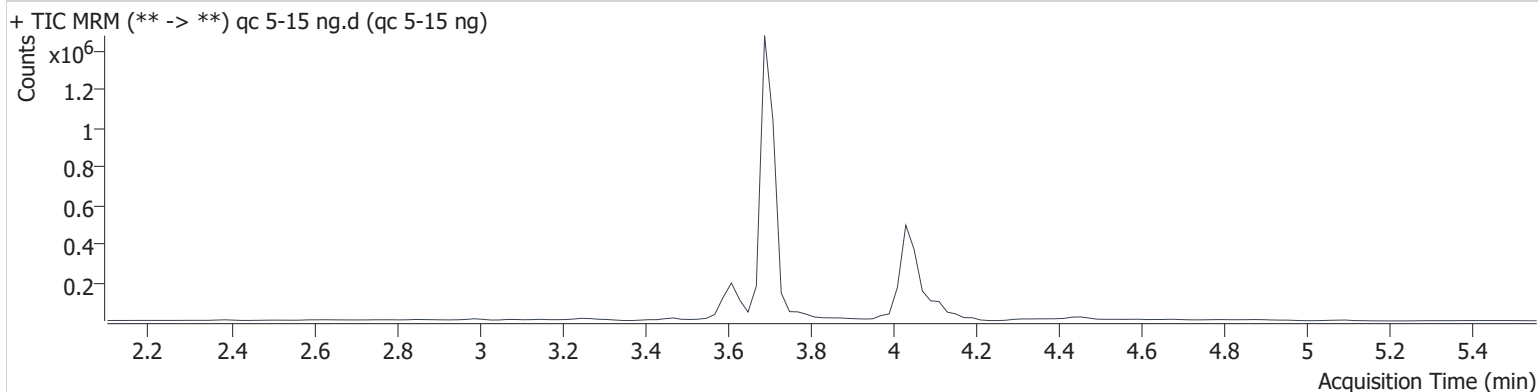
C2021-\_\_\_\_-\_\_

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 4:27:31 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



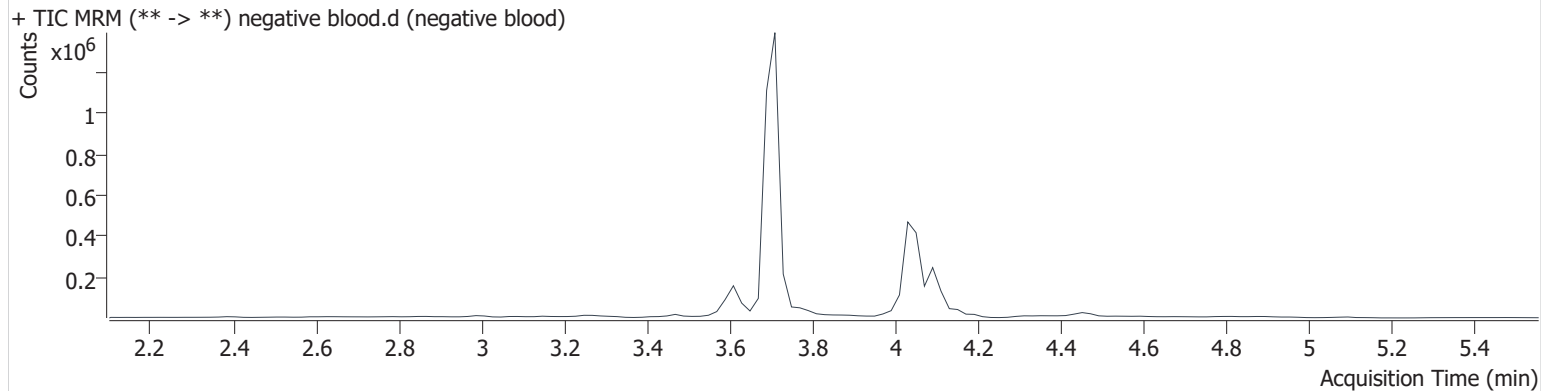
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	10866	190024	6.471 ng/ml
THC-COOH	3.612	73190	373405	17.641 ng/ml
THC-OH	3.699	28215	3241549	4.970 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 4:34:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

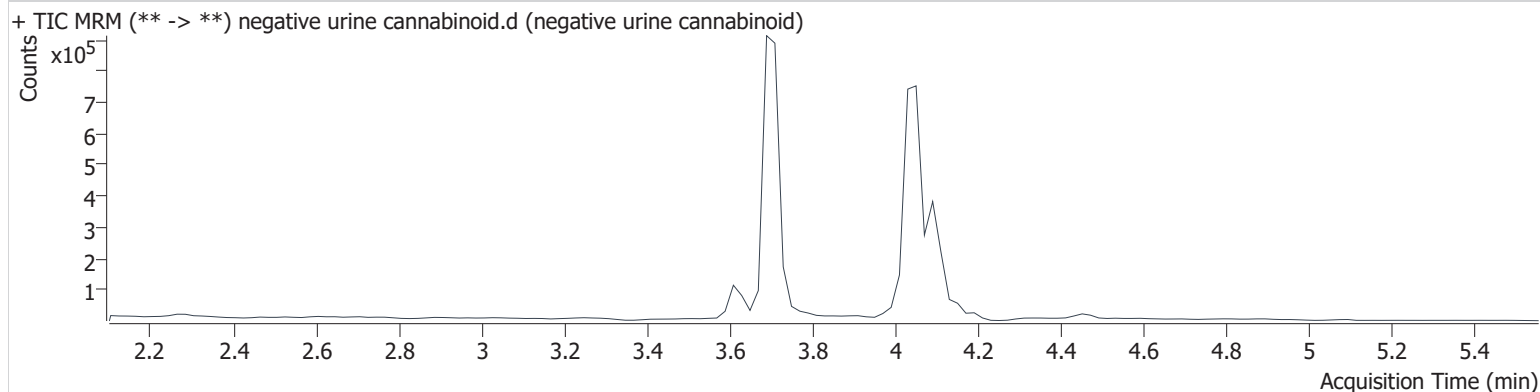


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine cannabinoid.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine cannabinoid
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	10/6/2021 6:06:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

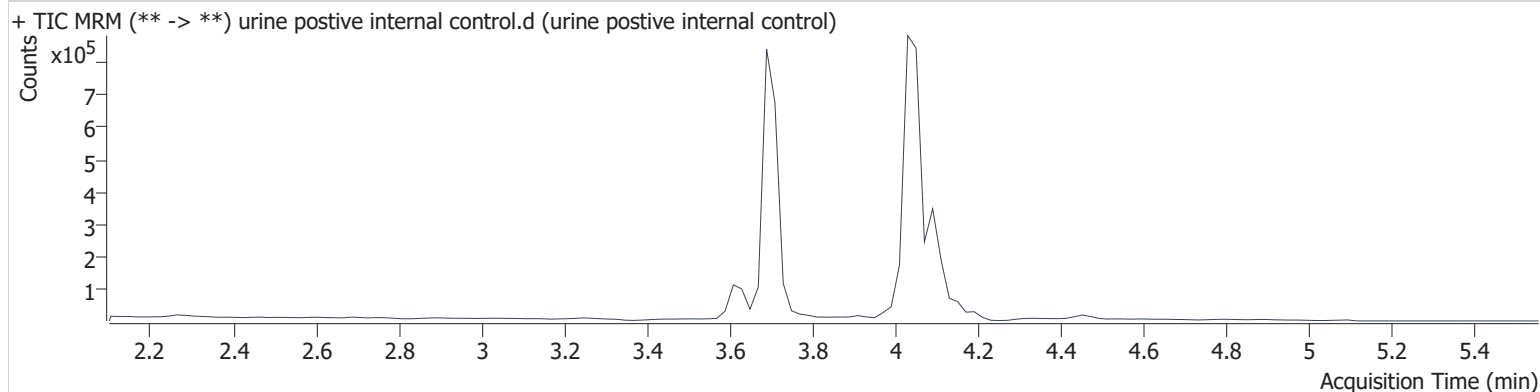


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<b>Instrument</b>	69679	<b>Data File</b>	urine postive internal control.d
<b>Type</b>	QC	<b>Sample</b>	urine postive internal control
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A6	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	10/7/2021 8:51:06 AM		
<b>Sample Info.</b>			

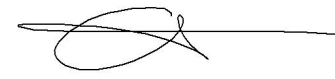
## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	23779	539612	5.036 ng/ml
THC-COOH	3.632	42576	222603	17.226 ng/ml
THC-OH	3.699	16928	1974991	4.894 ng/ml

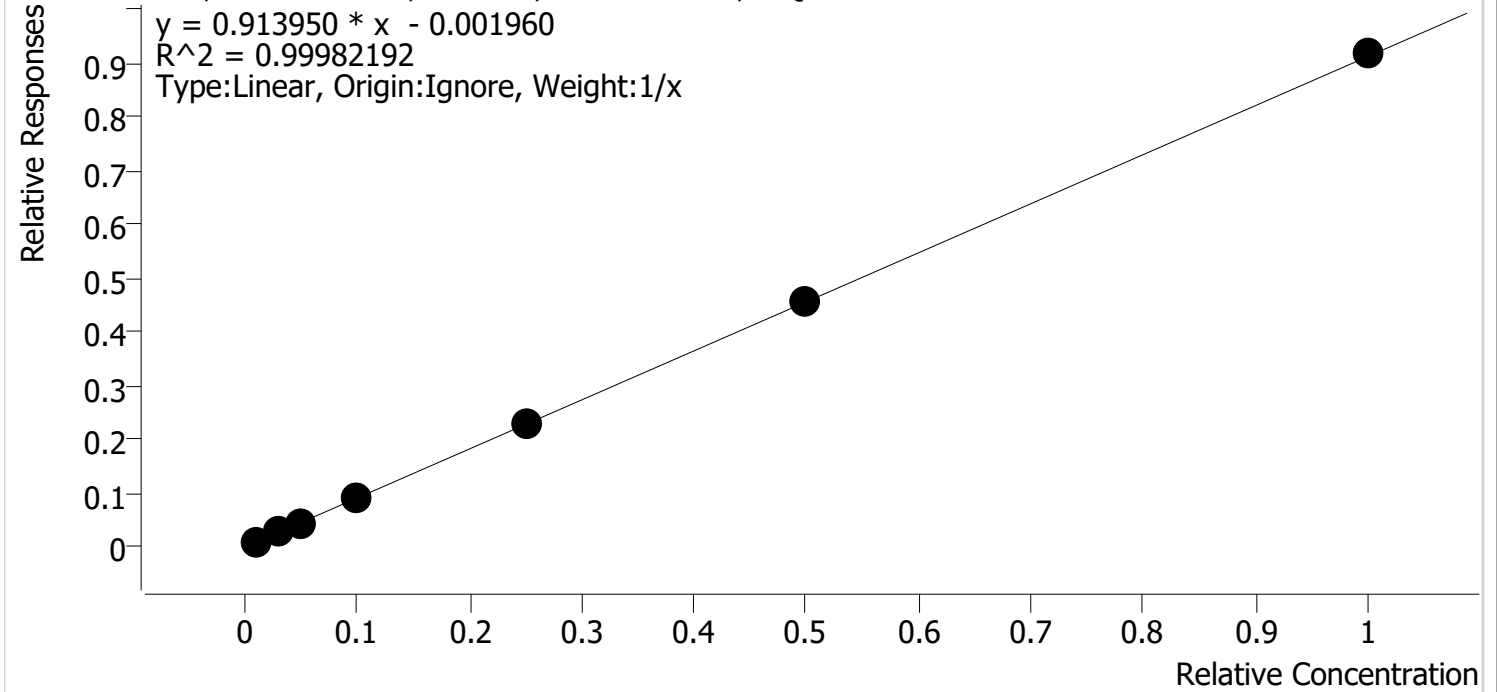


# Compound Calibration Report



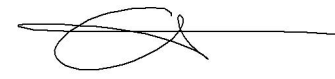
**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 10/7/2021 3:32 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

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



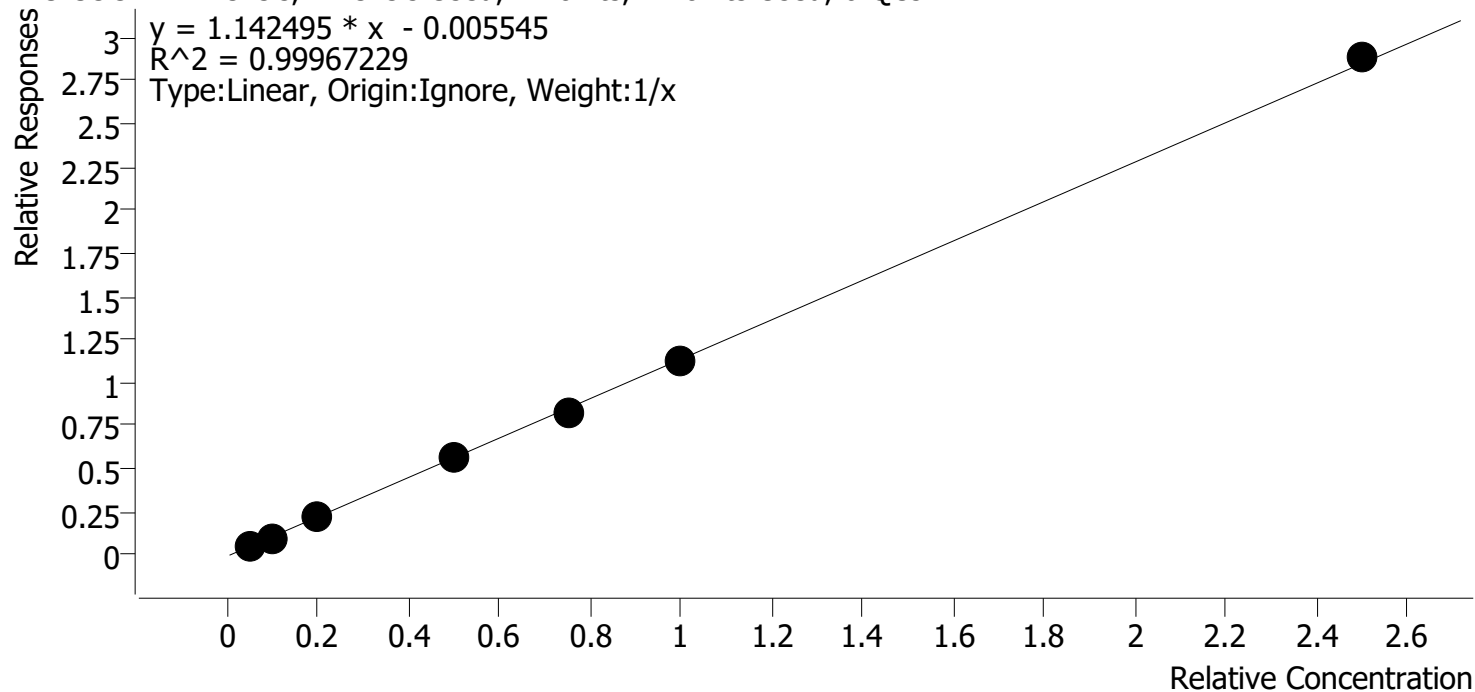
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	109.6
cal 2	2	✓	3.0	2.9	95.4
cal 3	3	✓	5.0	4.9	97.5
cal 4	4	✓	10.0	9.7	97.3
cal 5	5	✓	25.0	25.0	99.9
cal-6	6	✓	50.0	49.9	99.8
cal-7	7	✓	100.0	100.6	100.6

# Compound Calibration Report



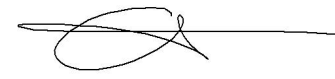
**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 10/7/2021 3:32 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

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



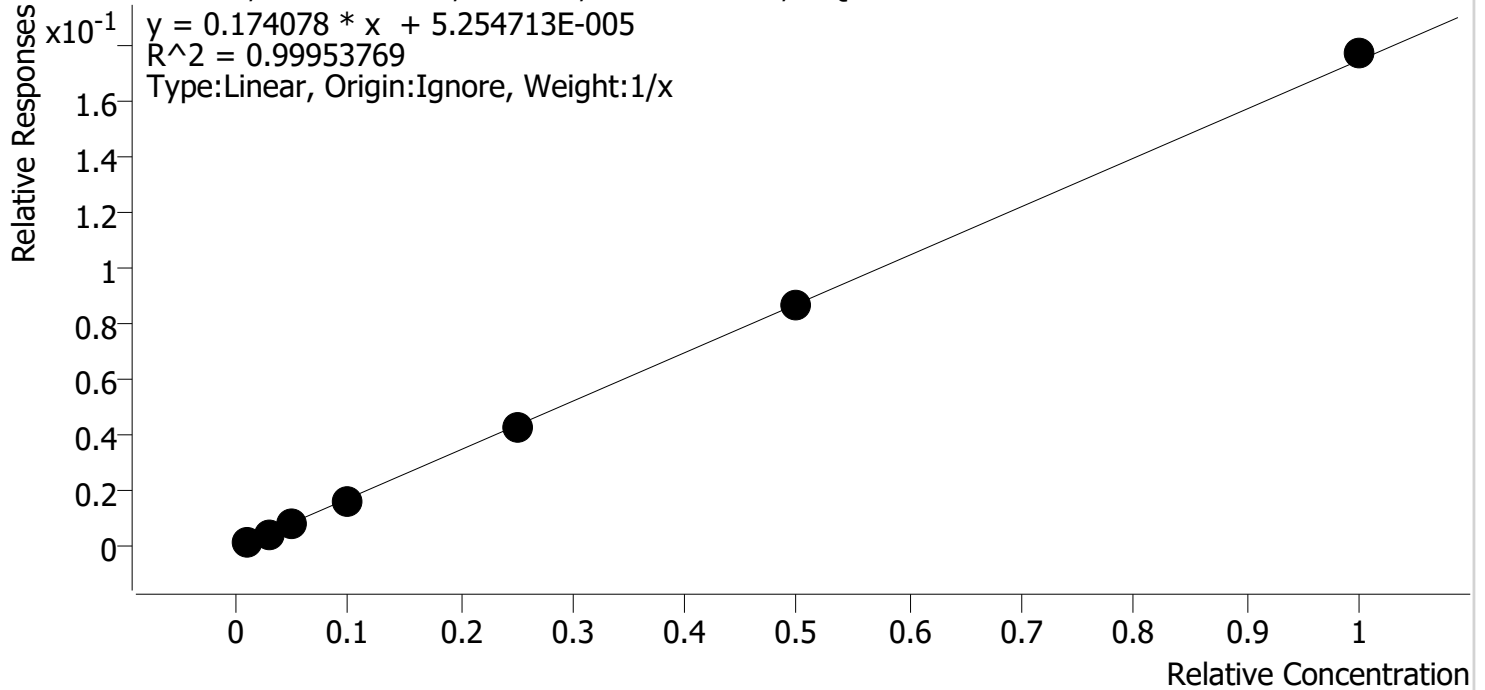
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.1
cal 2	2	✓	10.0	9.7	96.9
cal 3	3	✓	20.0	19.9	99.7
cal 4	4	✓	50.0	49.7	99.5
cal 5	5	✓	75.0	72.9	97.2
cal-6	6	✓	100.0	99.4	99.4
cal-7	7	✓	250.0	253.0	101.2

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 10/7/2021 3:32 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



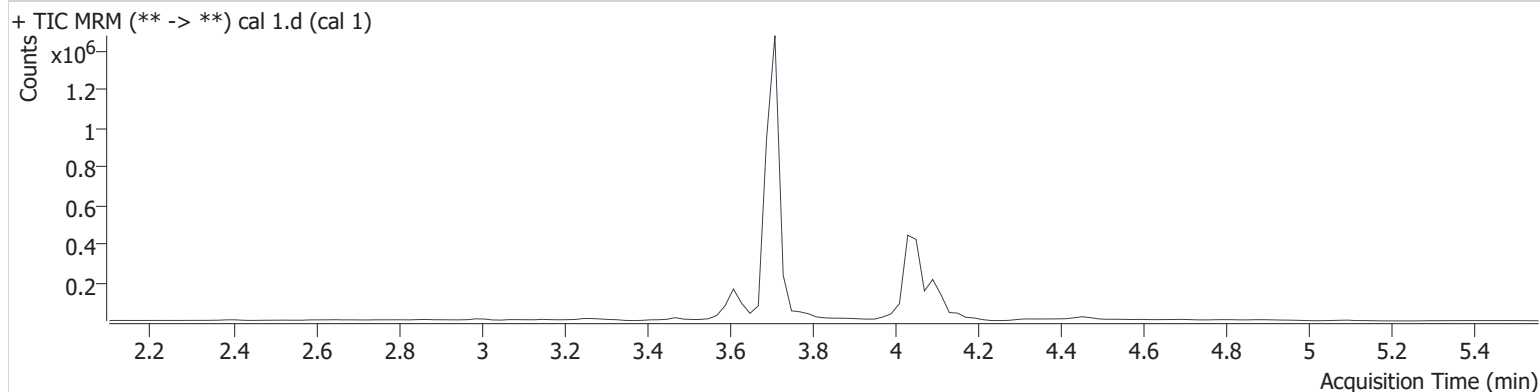
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	113.5
cal 2	2	✓	3.0	2.9	95.1
cal 3	3	✓	5.0	4.8	96.3
cal 4	4	✓	10.0	9.6	96.4
cal 5	5	✓	25.0	24.5	98.0
cal-6	6	✓	50.0	49.7	99.3
cal-7	7	✓	100.0	101.4	101.4

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1.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>	10/6/2021 3:34:46 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



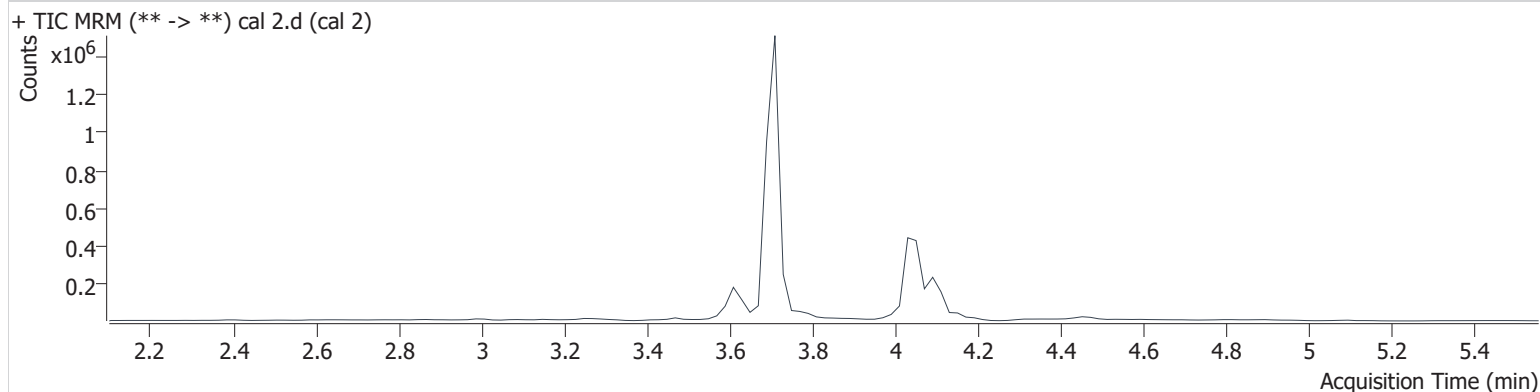
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	2702	335527	1.096 ng/ml <b>Low</b>
THC-COOH	3.632	20706	375935	5.306 ng/ml <b>Low</b>
THC-OH	3.719	6689	3299312	1.135 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 3:41:24 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



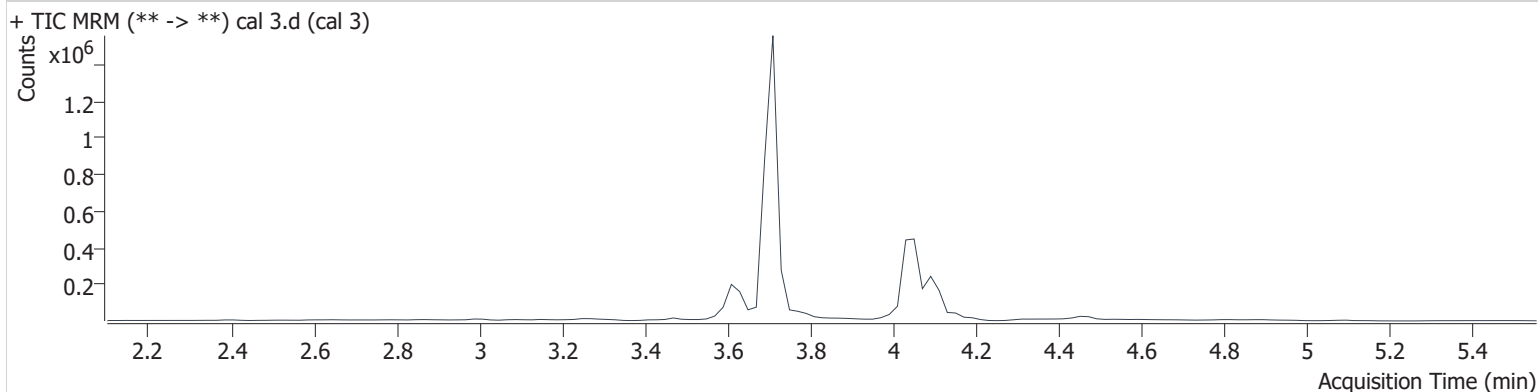
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	9078	375099	2.863 ng/ml <b>Low</b>
THC-COOH	3.632	39927	379813	9.686 ng/ml <b>Low</b>
THC-OH	3.719	16398	3267627	2.853 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 3:48:00 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



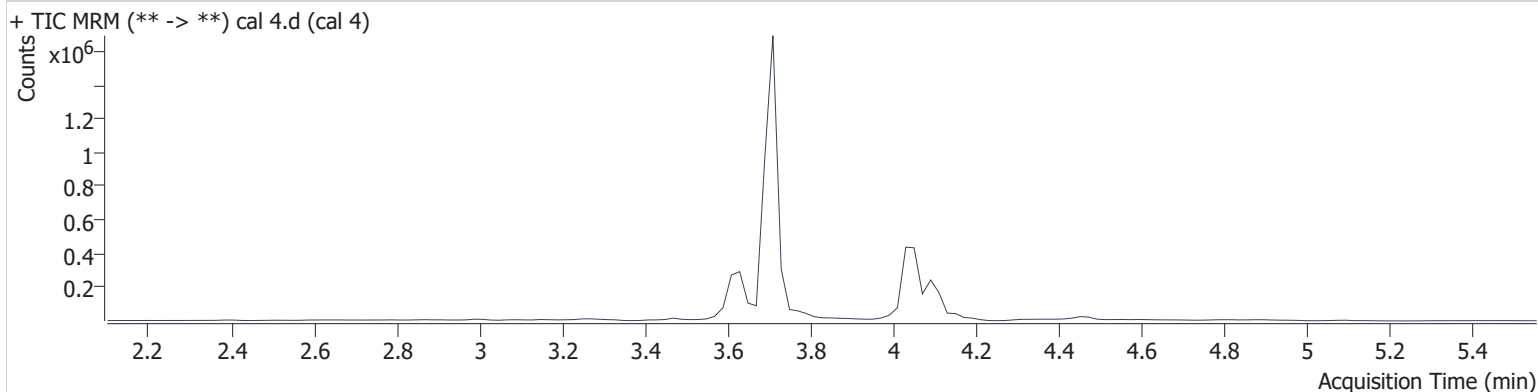
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	16882	396408	4.874 ng/ml
THC-COOH	3.632	83774	376979	19.936 ng/ml
THC-OH	3.719	26768	3173400	4.815 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 3:54:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



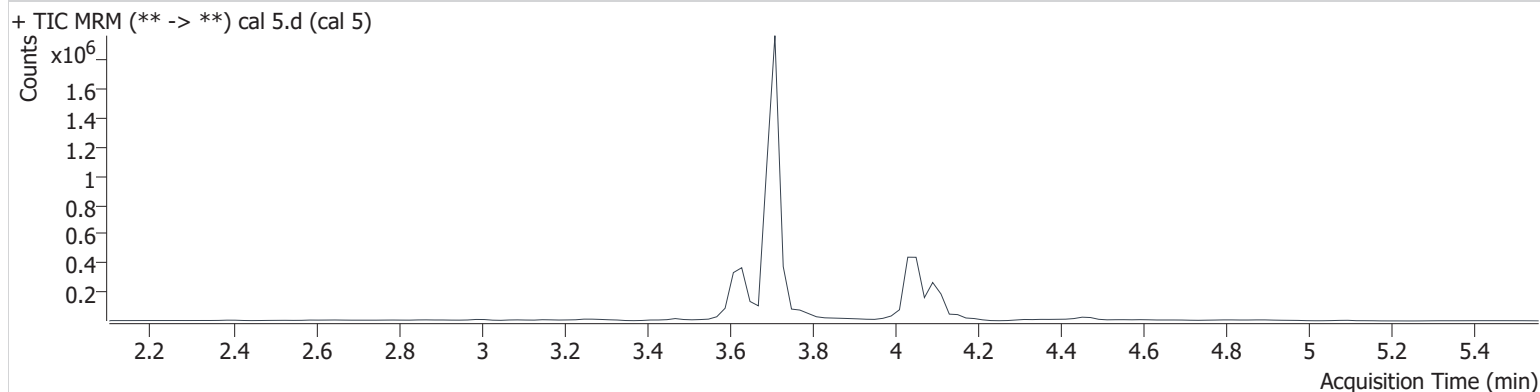
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	33060	380232	9.728 ng/ml
THC-COOH	3.632	213687	379719	49.742 ng/ml
THC-OH	3.719	54420	3232009	9.642 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 4:01:13 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	83203	367778	24.968 ng/ml
THC-COOH	3.632	307739	371903	72.912 ng/ml
THC-OH	3.719	134331	3145367	24.503 ng/ml

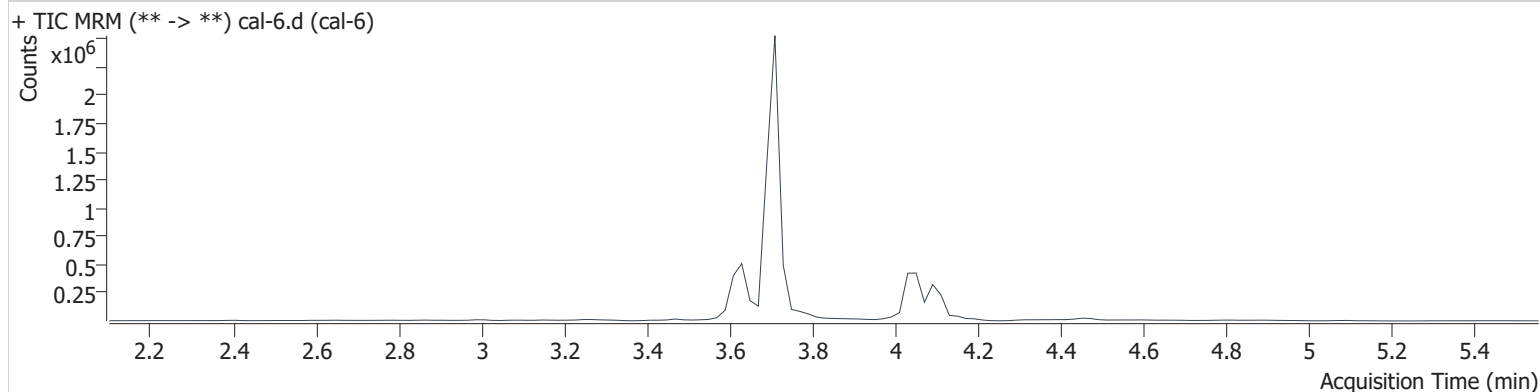


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 4:07:49 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



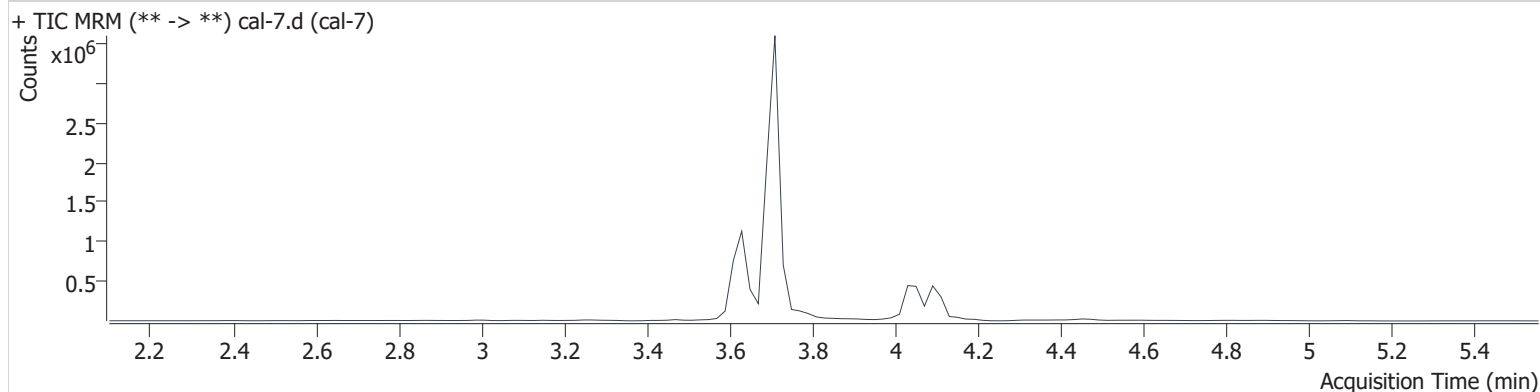
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	171915	378538	49.906 ng/ml
THC-COOH	3.632	431590	381742	99.442 ng/ml
THC-OH	3.719	277728	3210649	49.661 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\am 25-26\100621\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 10/7/2021 3:32:40 PM

<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>	10/6/2021 4:14:25 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	359762	392256	100.566 ng/ml
THC-COOH	3.632	1075802	372936	252.975 ng/ml
THC-OH	3.719	563219	3190117	101.390 ng/ml