



















**Worklist: 4395**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-1118	1	BCK	AM 25 Blood Multi-Drug Screen by LC-QQQ	
C2020-1362	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1366	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1367	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1368	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1376	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1378	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1385	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1391	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1409	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-1420	1	AVK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1432	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1441	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1464	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2030	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2056	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: 7/28/20 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:** 71720 **Blank Urine lot:** 6920 **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. **Urine samples 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:

6-Mam not evaluated – interference in blood negative control and a couple samples.

The run was started and found to need adjustments to the scan times. The samples were re-injected and evaluated.

Toxicology AM method 25/28 urine external control prep  
working solution 10000 ng/ml in meoh Hydromorphone, Doxylamine, Nortriptyline, Chlordiazepoxide  
Stock solution 1mg/ml 50 ul each in 4800ul meOH (Alfa Aesar lot Z22F712)

ppd 5/6/20: Exp: 6/1/20 lot 5620 by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Doxylamine	FN11201501	11/1/2020
nortriptyline	FN06191503	8/1/2020
chlordiazepoxide	FE07241502	8/1/2020

**AM 25/28 control 500 ul working solution (5620) in 4500 ul negative urine (1000ng/mL Expected concentration)**

ppd 5/6/20, exp 6/1/20 lot u32420 negative urine 41520 by BAW

*ok to use until 8/1/20 (evaluating doxylamine, nortriptyline, and chlordiazepoxide)*

**AM 25/28 Blood Control: 50ul working solution (562020) in 4950 ul neg blood (100ng/mL Expected concentration)**

ppd 5/6/20, exp 6/1/20 lot b3920 neg blood lot 20A52255 by BAW

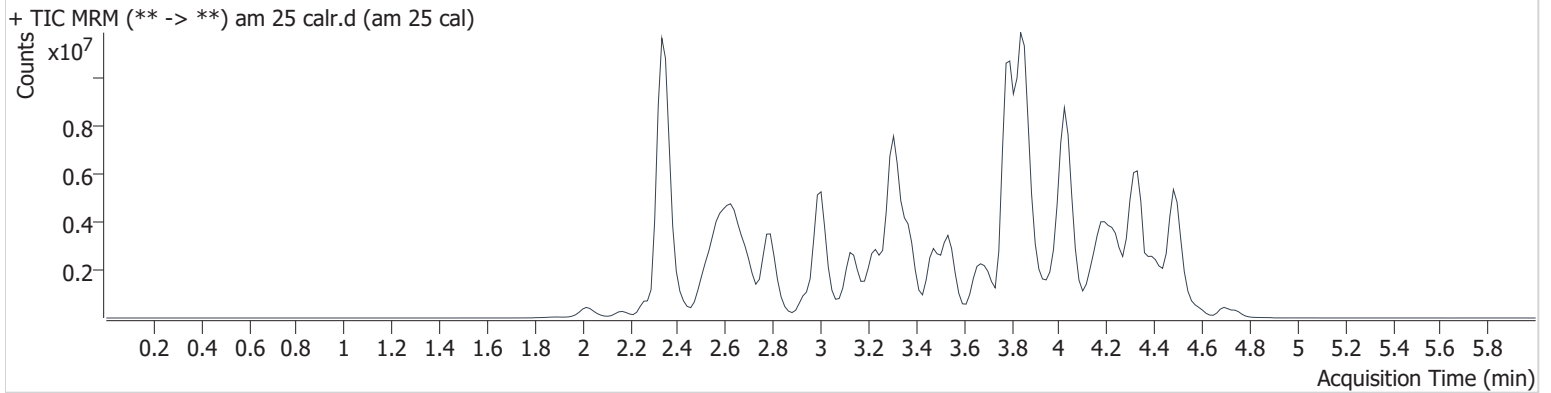
*ok to use until 8/1/20 (evaluating doxylamine, nortriptyline, and chlordiazepoxide)*

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 25 07-28-20\QuantResults\mds.batch.bin  
**Calibration Last Update** 7/29/2020 8:09:09 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 calr.d
<b>Type</b>	Cal	<b>Sample</b>	am 25 cal
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	7/28/2020 12:19:06 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
7-aminoclonazepam	3.325	781352	1330.0	243.3	3203052	10.000
7-aminoflunitrazepam	3.553	1162911	245.1	888.9	3203052	10.000
Acetyl Fentanyl	3.626	193317	68.0	149923.7	15351851	10.000
Acetyl Norfentanyl	2.551	147446	1363.9	38.7	15351851	10.000
a-hydroxyalprazolam	4.331	131987	104.6	98.6	3203052	10.000
alpha-hydroxymidazolam	4.420	948318	593.0	1235783.6	3203052	10.000
alpha-PHP	3.559	1514182	418.6	548.8	3995991	10.000
alpha-PVP	3.255	2197916	1913359.4	637.1	3995991	10.000
Alprazolam	4.440	1061558	469.3	827.6	11093886	10.000
Amitriptyline	4.246	748180	71.0	131.0	3297973	10.000
Amphetamine	2.542	1786632	580.3	2753.2	3995991	10.000
Benzoylcegonine	3.080	478422	609.1	201.8	206163	10.000
Brompheniramine	3.811	55152	552.4	24.0	33708297	10.000
Buprenorphine	4.296	149814	22238.2	10168.1	608004	10.000
Bupropion	3.499	2109023	1579.9	394.8	7447207	10.000
Carbamazepine	4.020	3844322	367.5	746.9	256106	10.000
Carisoprodol	4.003	671753	585.3	231.4	3728374	10.000
Chlordiazepoxide	4.563	142205	∞	340.2	11093886	10.000
Chlorpheniramine	3.725	9250	18.7	8107.7	33708297	10.000
Citalopram	3.856	1445424	167.5	215.0	33708297	10.000
Clomipramine	4.468	909972	∞	237.3	33708297	10.000
Clonazepam	4.271	842248	6556.8	137487.1	11093886	10.000
Clonazolam	4.176	542774	1895.8	69631.2	11093886	10.000
Cocaoethylene	3.535	2632235	900695.2	895.6	3995991	10.000
Cocaine	3.308	2934639	1431133.0	242.2	15779801	10.000
Codeine	2.501	171515	783.2	1596.8	4827354	10.000
Cyclobenzaprine	4.170	1117052	331.9	44.9	3297973	10.000
Desipramine	4.202	2240352	195.1	266.8	3297973	10.000
Dextromethorphan	3.863	1106513	244.8	355.5	5689337	10.000
Dextrorphan	3.114	1486350	809.1	13223.9	5689337	10.000
Diazepam	4.703	721925	700.6	895.4	11093886	10.000
Dihydrocodeine	2.424	473091	3401.3	1606.4	4827354	10.000
Diphenhydramine	3.804	4740453	729.2	234.4	33708297	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	3.953	1032411	267.0	361.9	2191454	10.000
Doxylamine	3.371	5393169	1150.0	369.1	5689337	10.000
EDDP	3.846	1527349	4156.5	∞	901238	10.000
Estazolam	4.350	2755276	924.9	551.2	11093886	10.000
Etizolam	4.466	148469	62316.9	199130.3	11093886	10.000
Fentanyl	3.871	131680	44.8	56893.2	7551329	10.000
Flualprazolam	4.300	440230	208.5	107600.4	11093886	10.000
Flunitrazepam	4.393	1262781	852.7	963.8	11093886	10.000
Fluoxetine	4.135	1064272	1340.2	25.9	2191454	10.000
Flurazepam	3.961	1401748	796.9	∞	11093886	10.000
Hydrocodone	2.713	755008	176.3	201.3	4827354	10.000
Hydromorphone	2.172	543554	326.4	4789.2	61091	10.000
Imipramine	4.199	2426704	668.0	32.5	3297973	10.000
Ketamine	3.192	1859589	402.3	46.3	5983999	10.000
Lamotrigine	3.328	155302	∞	2427.0	33708297	10.000
Levamisole	2.644	1539053	196.8	166.5	15779801	10.000
Levetireacetam	2.267	960696	193.6	1239.2	33708297	10.000
Lorazepam	4.240	277323	4984.7	127.5	11093886	10.000
Maprotiline	4.247	571063	219.6	130.5	3297973	10.000
MDA	2.690	1472994	740.5	351.6	7833092	10.000
MDEA	2.949	2258570	413.0	3596.7	7833092	10.000
MDMA	2.782	2628850	485.4	633.9	7833092	10.000
Meperidine	3.329	1223616	424.9	784.3	5689337	10.000
Meprobamate	3.393	392976	446.3	131.8	3728374	10.000
Methadone	4.180	1879522	386.0	587.8	901238	10.000
Methamphetamine	2.663	3029599	792.5	157.4	7833092	10.000
Methocarbamol	3.299	303094	248.3	309.4	901238	10.000
Methylphenidate	3.239	5922628	1209.6	943.2	8221457	10.000
Metoprolol	3.143	312987	388.2	2438.7	5689337	10.000
Midazolam	4.588	330964	799.0	216539.9	11093886	10.000
Mirtazapine	3.663	1661195	395.6	4463.2	5689337	10.000
Mitragynine	3.990	73448	23380.3	151.3	5689337	10.000
Morphine	2.007	101039	611.4	180.5	61091	10.000
Norbuprenorphine	3.624	29007	9297.9	12673.5	608004	10.000
Nordiazepam	4.537	733305	1479.0	1474.0	11093886	10.000
Norfentanyl	3.009	2913340	2226.5	451.0	15351851	10.000
Norhydrocodone	2.639	43464	363.8	9.2	61091	10.000
norketamine	3.286	277637	350.3	7793.2	5983999	10.000
Normeperidine	3.331	1139931	365.2	780.0	33708297	10.000
Noroxycodone	2.561	555360	193.7	392.4	5983999	10.000
Nortriptyline	4.233	734418	393.5	167.9	3297973	10.000
O-desmethyl-tramadol	2.565	4091273	863.3	136.0	33708297	10.000
Olanzapine	3.736	907098	486.4	329.4	256106	10.000
Oxazepam	4.336	1185488	326.3	198.2	8097670	10.000
Oxycodone	2.605	1282837	730.3	1660.5	5983999	10.000
Oxymorphone	2.017	610887	1596.9	738.3	61091	10.000
Paroxetine	4.193	139856	25.5	9468.3	2191454	10.000
Phenazepam	4.480	1329816	1223.5	1503.4	11093886	10.000
Phencyclidine	3.682	2076069	482.2	226.5	5689337	10.000
Phentermine	2.815	666194	124.7	8.3	8221457	10.000
Phenytoin	3.927	495332	520.6	407.4	256106	10.000
Promethazine	4.153	2690621	510.3	282.3	33708297	10.000
Pseudoephedrine	2.343	38575825	1586.7	1422.9	7833092	10.000
Quetiapine	4.236	1190844	314.3	110.4	23304682	10.000
Sertraline	4.395	406063	448.9	218.9	2191454	10.000
Sufentanil	4.221	87375	28814.6	22.3	15351851	10.000
Tapentadol	3.149	2297562	380.1	801.5	5983999	10.000
Temazepam	4.502	1994127	477.1	91.5	11093886	10.000
Tramadol	3.128	4983633	1705.5	88.0	33708297	10.000
Trazodone	4.374	2407262	162.6	161.2	2191454	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.539	3273249	1938.8	1264.3	2191454	10.000
Zaleplon	4.166	1339120	1265.0	302.1	23304682	10.000
Zolpidem	4.044	3833314	1484743.4	8503.8	23304682	10.000
Zopiclone	3.884	254622	21.6	551.9	1266411	10.000

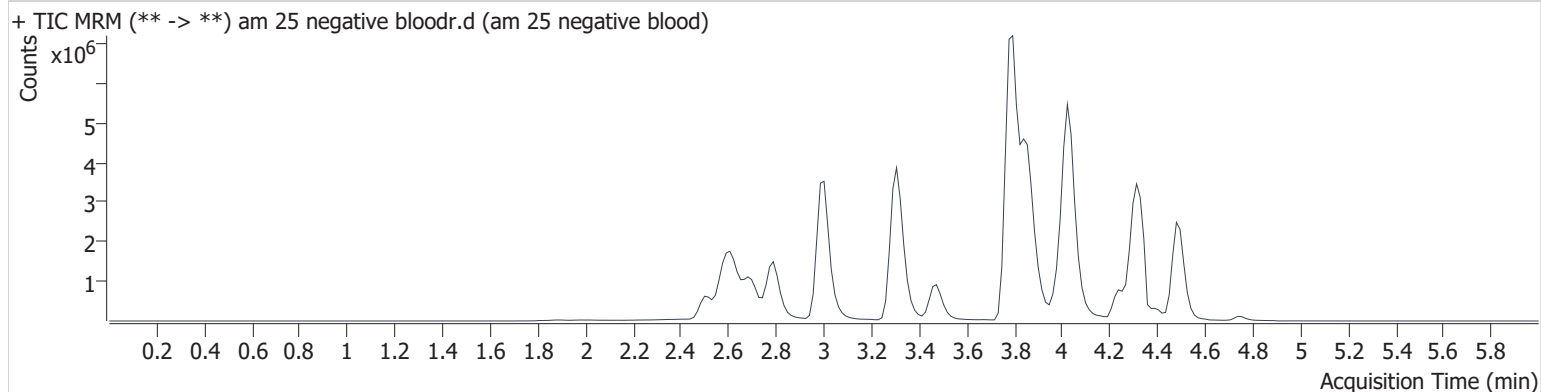
OA

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 25 07-28-20\QuantResults\mds.batch.bin  
**Calibration Last Update** 7/29/2020 8:09:09 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative bloodr.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative blood
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C5	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	7/28/2020 12:25:56 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



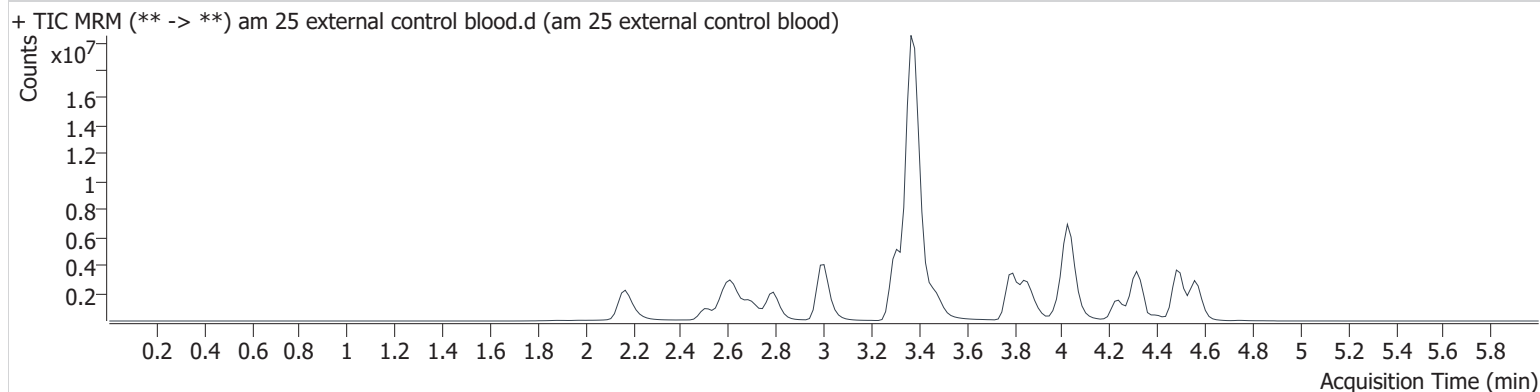
# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 25 07-28-20\QuantResults\mds.batch.bin  
**Calibration Last Update** 7/29/2020 8:09:09 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 external control blood.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 external control blood
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-D5	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	7/28/2020 12:32:46 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Chlordiazepoxide	4.563	2860760	∞	3131098. 4	12949398	172.346
Doxylamine	3.371	43772636	1759.2	1843.1	1967294	234.720
Hydromorphone	2.172	5052218	1106.7	49358.7	72752	78.050
Nortriptyline	4.233	2759051	1129178.7	333.1	1265955	97.869



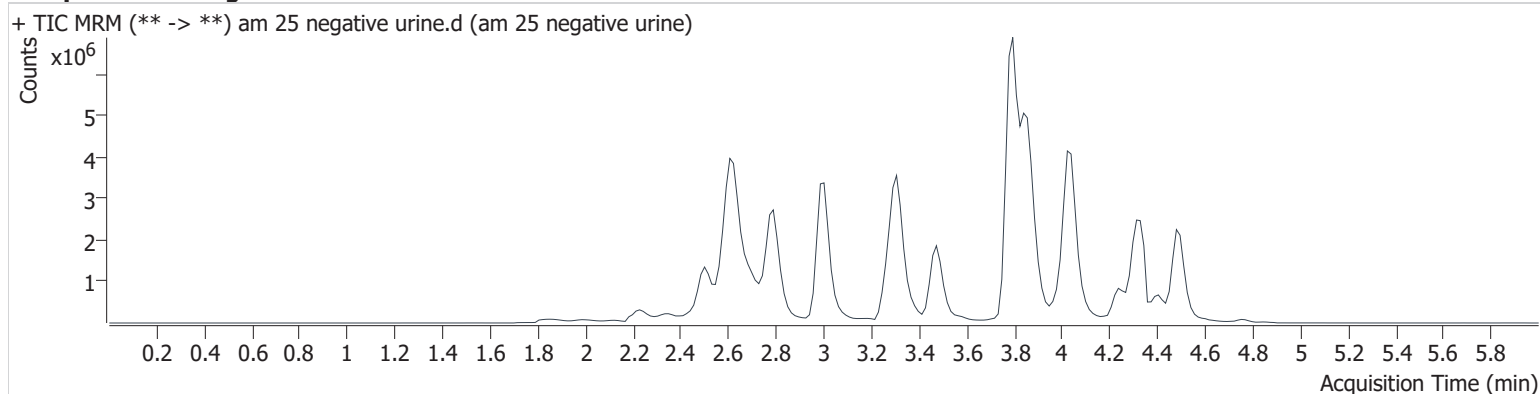
GA

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 25 07-28-20\QuantResults\mds.batch.bin  
**Calibration Last Update** 7/29/2020 8:09:09 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 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-D7	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	7/28/2020 2:53:40 PM		

## Sample Chromatogram



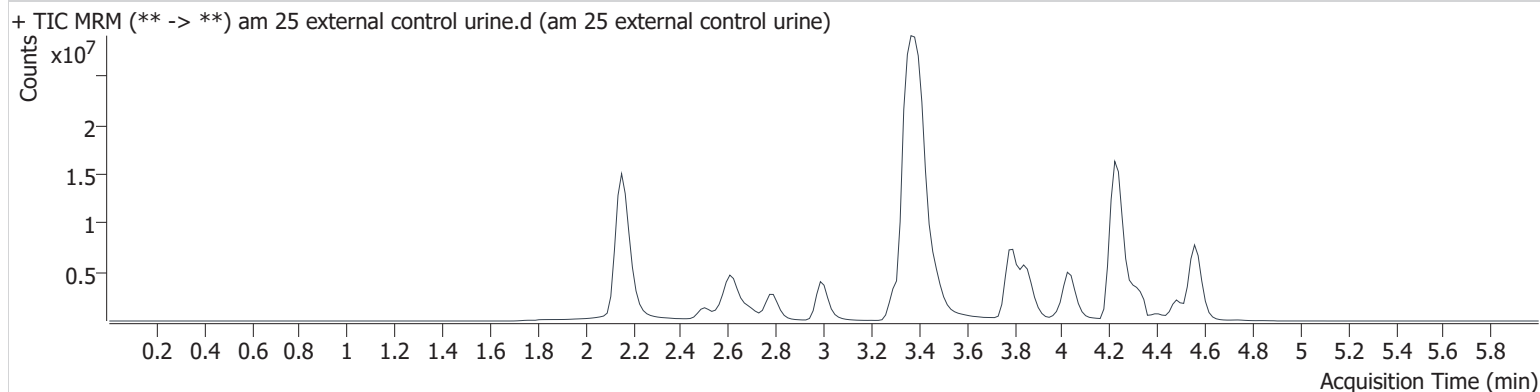
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Acetyl Norfentanyl	2.491 <b>Low</b>	69288	49.0	21.9	12704157	5.679

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 25 07-28-20\QuantResults\mds.batch.bin  
**Calibration Last Update** 7/29/2020 8:09:09 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 external control urine.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 external control urine
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E7	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	7/28/2020 3:37:19 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Chlordiazepoxide	4.563	8112152	8317.8	3764.4	6766732	935.246
Doxylamine	3.387	95935224	52994.5	∞	4891381	206.902
Hydromorphone	2.157	33706287	4072.3	596219.9	72491	522.595
Methamphetamine	2.648	1385864	206.0	84.8	13531313	2.648 < 32
Nortriptyline	4.233	38543031	3317.1	1211.7	2747563	629.944

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

Extraction Date: 7/30/20 Analyst: Anne Nord

Plate lot#: 200303

Plate Expiration: 09/03/2020

**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:** 20G20792 **Urine Blank:** 73020 **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. Shaker ID: 66759
- 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: *THC cal curve 3-100*

# Toxicology AM method 27/26 external prep information ~~GA~~

working solution 1 ug/ml in meoh C-THC, THC-OH, THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 75 ul THC-OH in 9767.5 ul meOH

Ppd 2/13/20 Exp: 8/13/20 lot 21320 by AMN

Drug	lot	expiration
C-THC	FE07171501	9/1/2020
THC-OH	<del>FE07721601</del>	7/1/2021
THC	FE001041701	3/1/2022

FE07221601

AM 27/26 urine control 400 ul working solution lot (21320) in 9600 ul urine lot (73020)

**out of use**

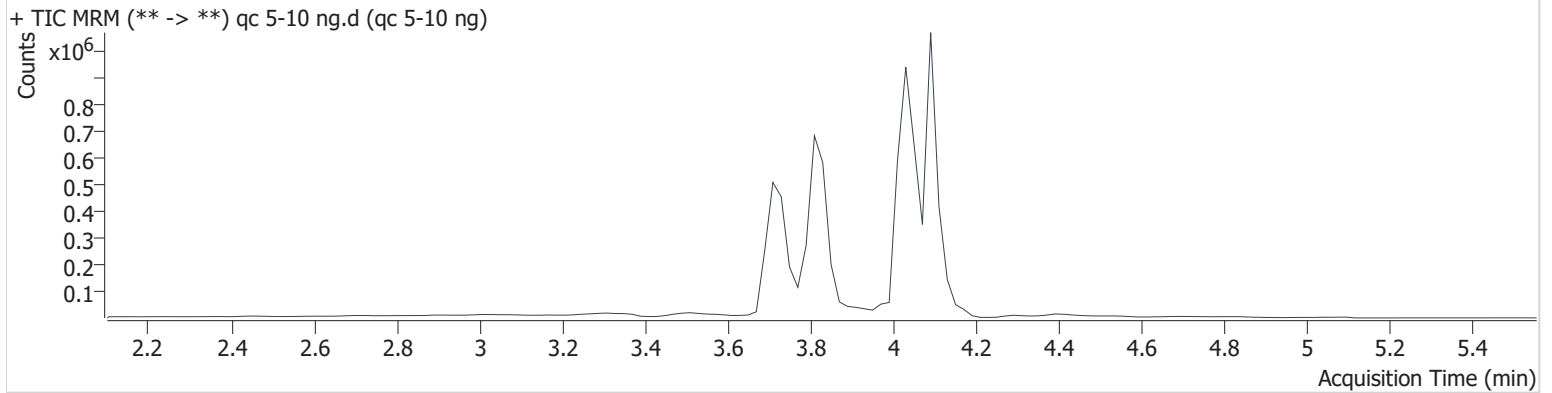
ppd 7/30/20 exp 8/13/20 (urine lot 73020)	lot u81320	Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC	by amn	
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# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-10 ng.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-10 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>	7/30/2020 3:00:13 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	62972	1842793	3.970 ng/ml
THC-COOH	3.832	255942	1355530	15.833 ng/ml
THC-OH	3.719	16645	1749597	4.465 ng/ml

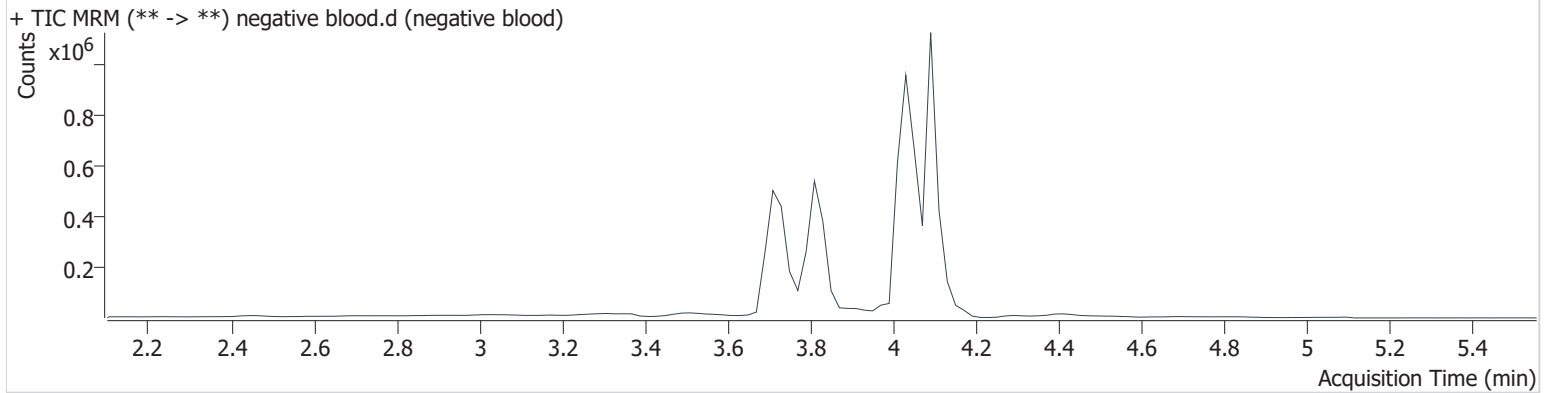
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 3:06:49 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



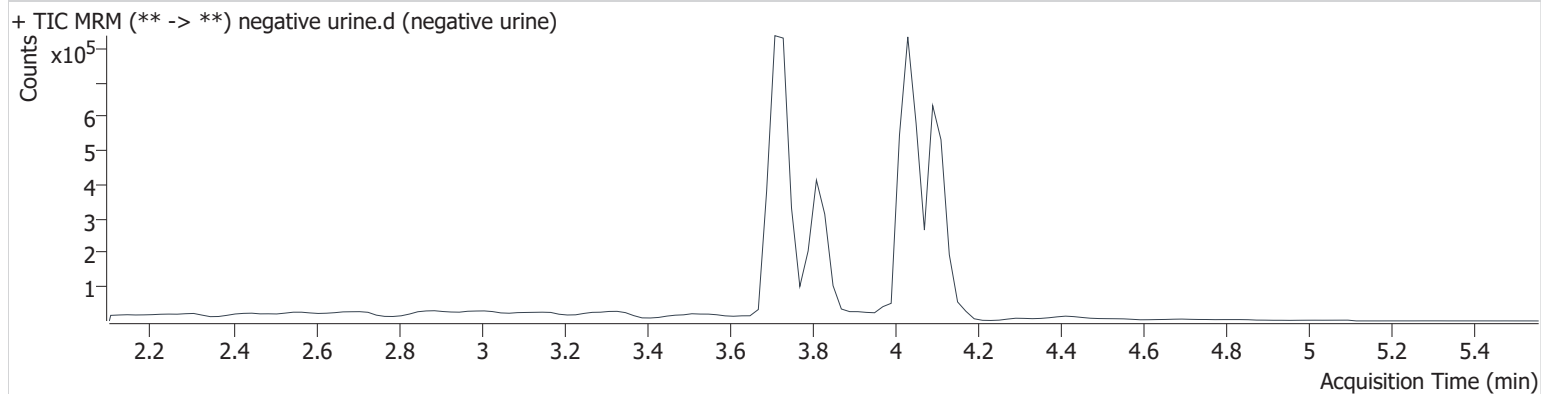
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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-H3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	7/30/2020 4:45:54 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

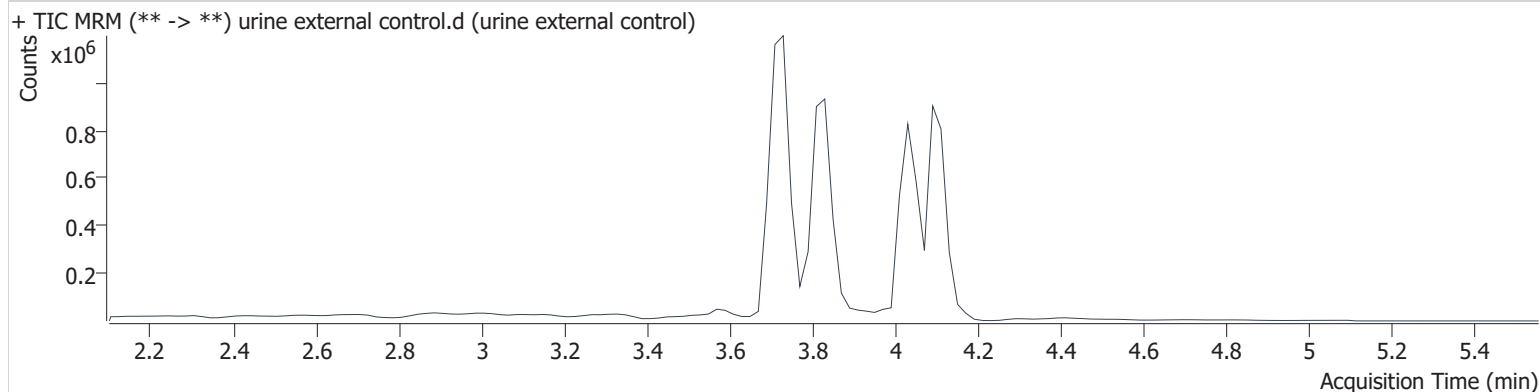


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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-A4	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	7/30/2020 4:52:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



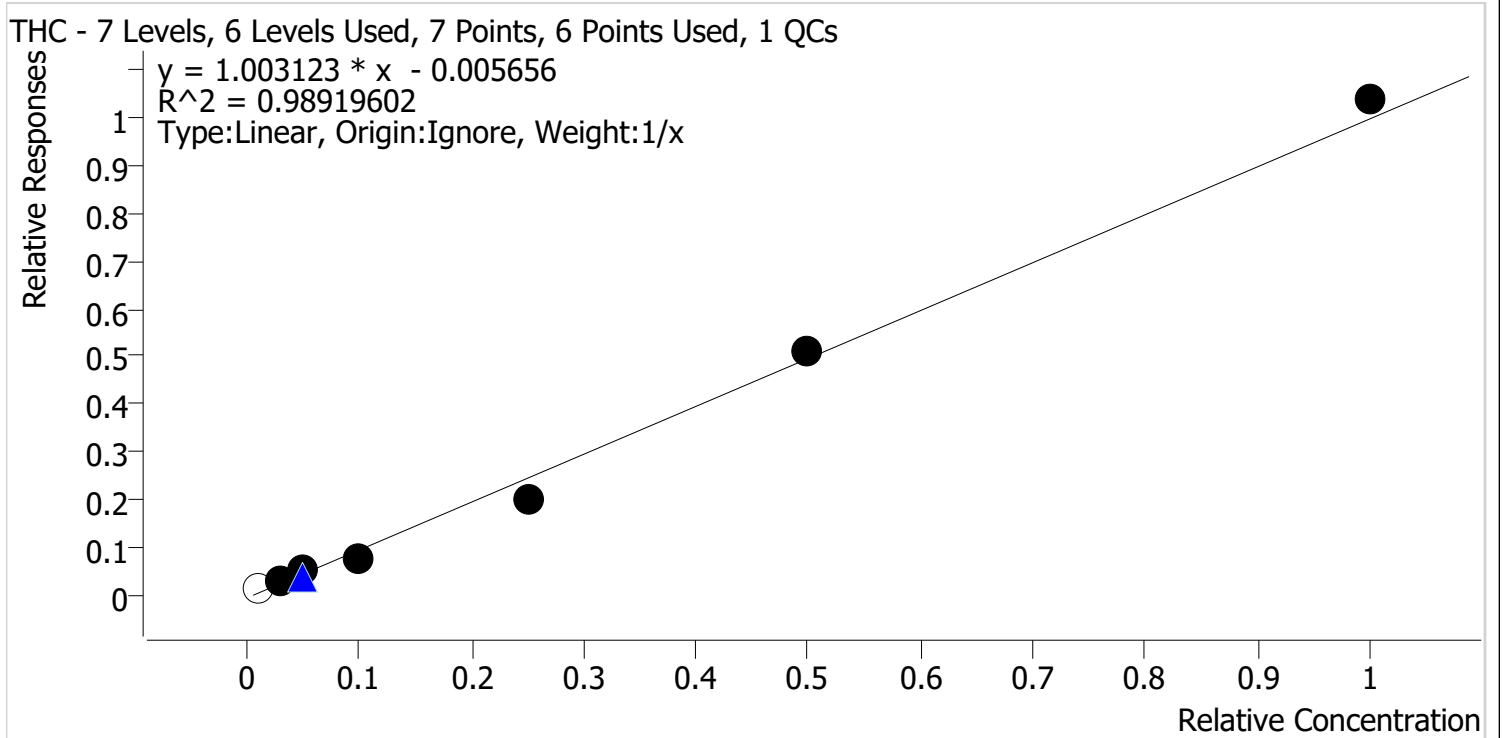
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	330570	1939594	17.554 ng/ml
THC-COOH	3.832	681530	1302962	43.489 ng/ml
THC-OH	3.739	126948	3141645	19.098 ng/ml



# Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
Last Cal. Update 7/31/2020 9:17 AM  
Analyst Name ISP\datastor  
Analyte THC Internal Standard THC-d3



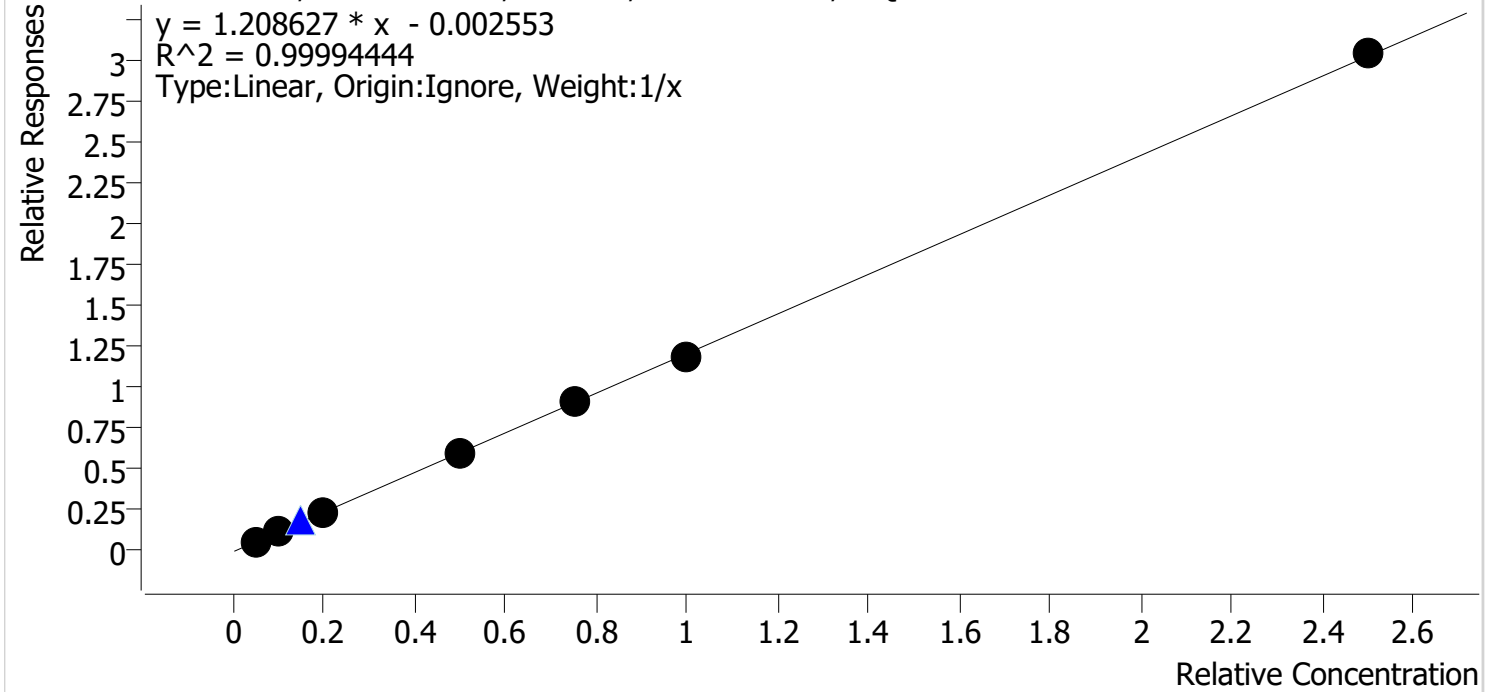
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	x	1.0	2.1	214.8
cal 2	2	✓	3.0	3.5	117.1
cal 3	3	✓	5.0	5.6	112.9
cal 4	4	✓	10.0	8.2	82.1
cal 5	5	✓	25.0	20.4	81.4
cal-6	6	✓	50.0	51.3	102.6
cal-7	7	✓	100.0	104.0	104.0

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin		
<b>Last Cal. Update</b>	7/31/2020 9:17 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	THC-COOH	<b>Internal Standard</b>	THC-COOH-d9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 1 QCs



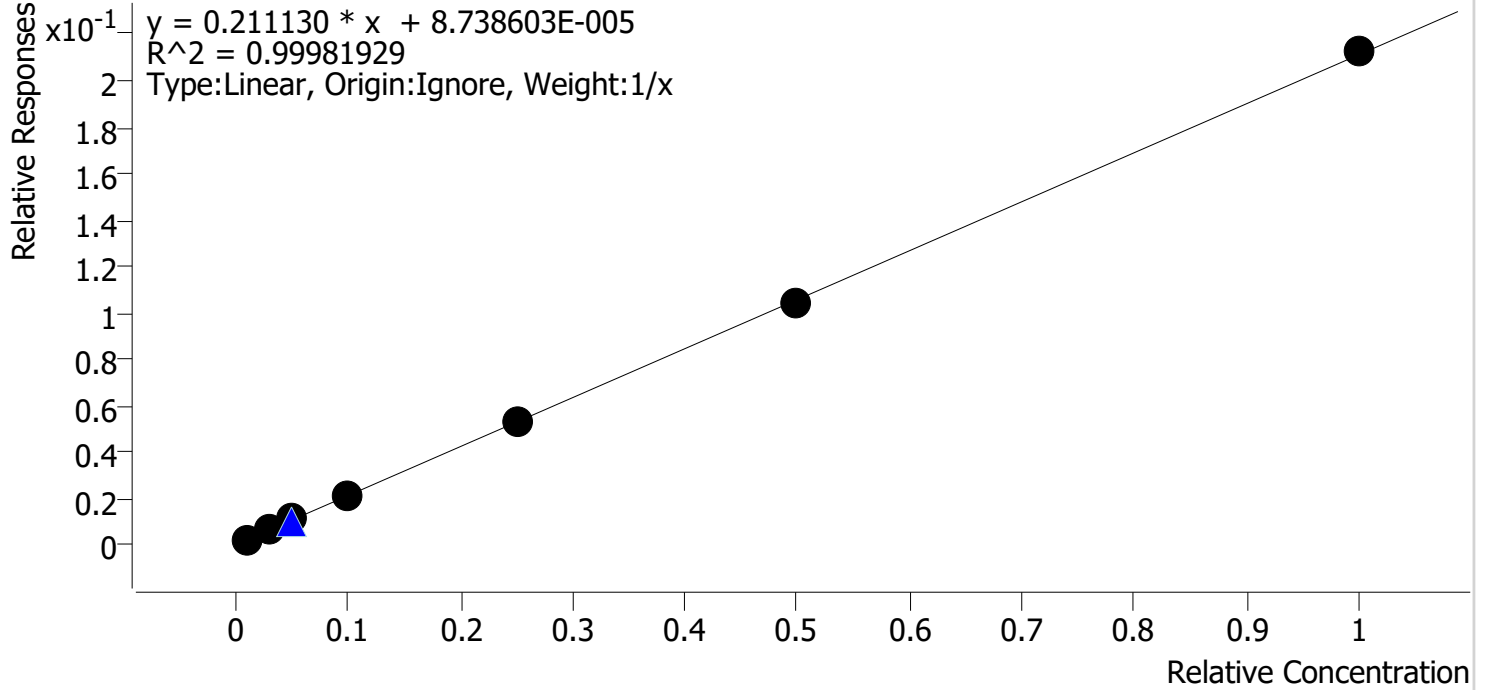
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✓	5.0	5.0	100.6
cal 2	2	✓	10.0	10.1	101.1
cal 3	3	✓	20.0	19.9	99.3
cal 4	4	✓	50.0	49.7	99.4
cal 5	5	✓	75.0	75.1	100.1
cal-6	6	✓	100.0	98.9	98.9
cal-7	7	✓	250.0	251.3	100.5

# Compound Calibration Report



**Batch results**      D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Last Cal. Update**      7/31/2020 9:17 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, 1 QCs



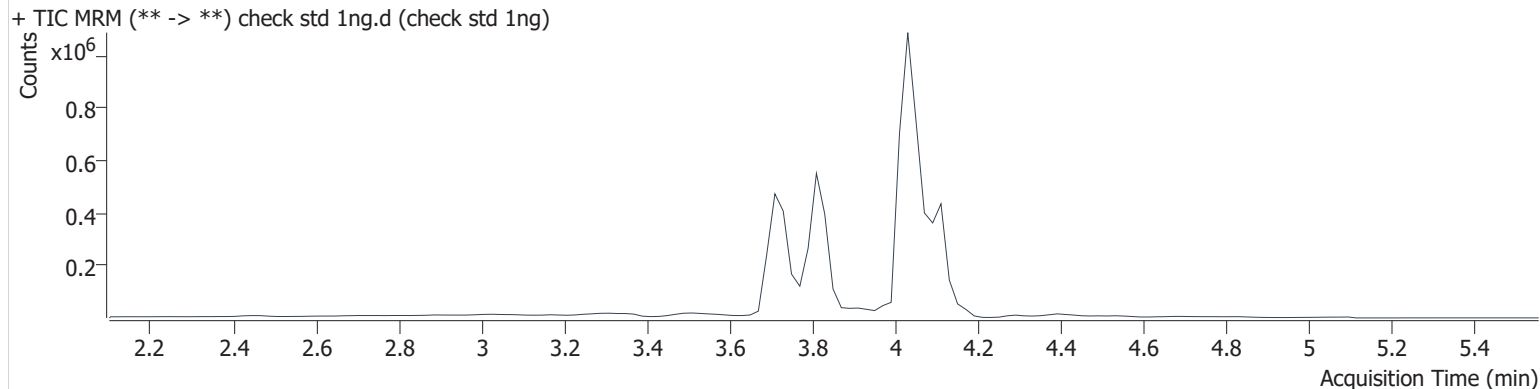
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✓	1.0	1.0	98.5
cal 2	2	✓	3.0	2.9	97.1
cal 3	3	✓	5.0	5.3	105.1
cal 4	4	✓	10.0	10.1	100.8
cal 5	5	✓	25.0	24.8	99.1
cal-6	6	✓	50.0	49.4	98.7
cal-7	7	✓	100.0	100.6	100.6

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	check std 1ng.d
<b>Type</b>	Cal	<b>Sample</b>	check std 1ng
<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>	7/30/2020 2:13:54 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	16837	1059673	2.148 ng/ml <b>Low</b>
THC-COOH	3.832	74459	1278302	5.031 ng/ml <b>Low</b>
THC-OH	3.719	3756	1732735	0.985 ng/ml <b>Low</b>

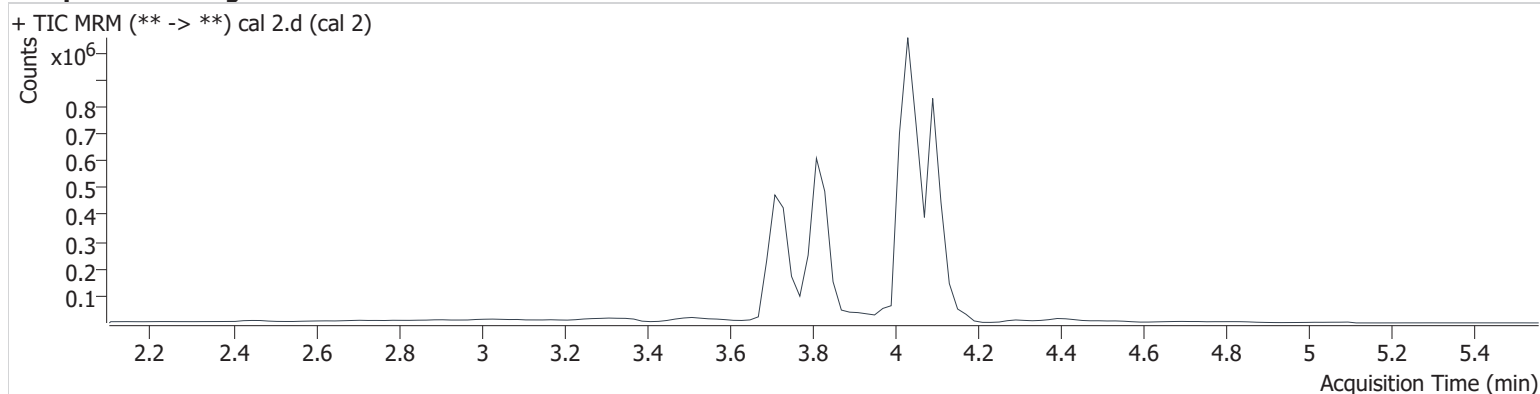
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:20:32 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	48215	1630270	3.512 ng/ml
THC-COOH	3.832	156104	1304963	10.109 ng/ml
THC-OH	3.719	10247	1642678	2.913 ng/ml <b>Low</b>

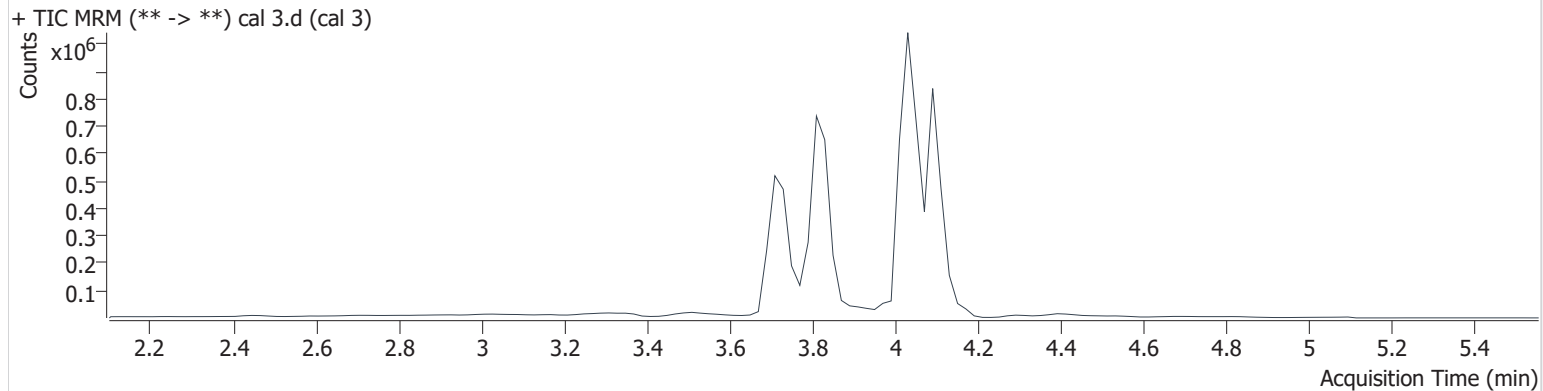
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:27:10 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	82645	1621666	5.644 ng/ml
THC-COOH	3.832	323849	1363222	19.867 ng/ml
THC-OH	3.719	19743	1765397	5.255 ng/ml

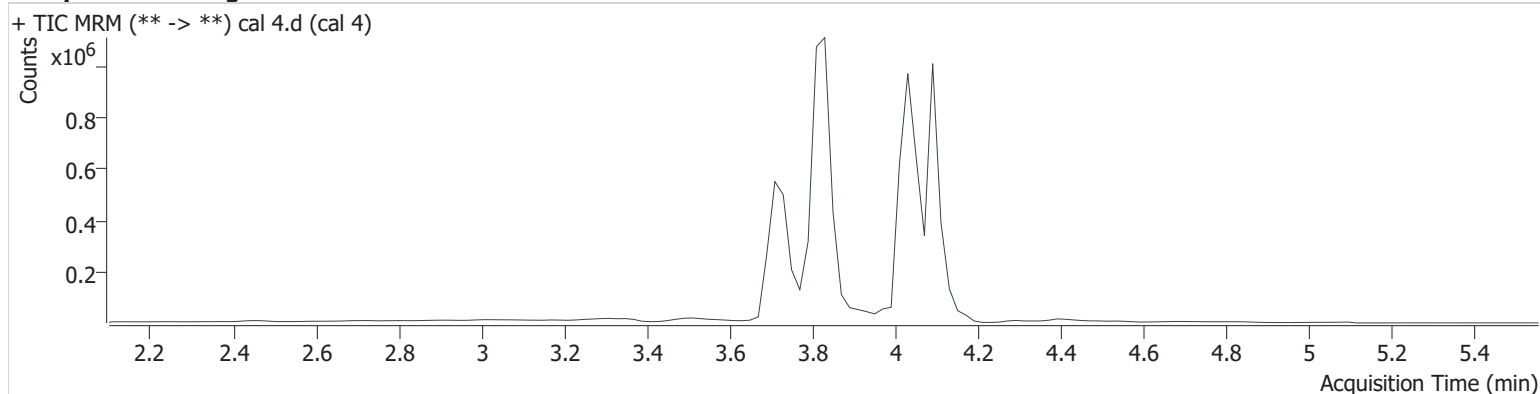
EA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:33:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	126575	1651055	8.206 ng/ml
THC-COOH	3.832	828137	1383997	49.719 ng/ml
THC-OH	3.719	36496	1708638	10.075 ng/ml

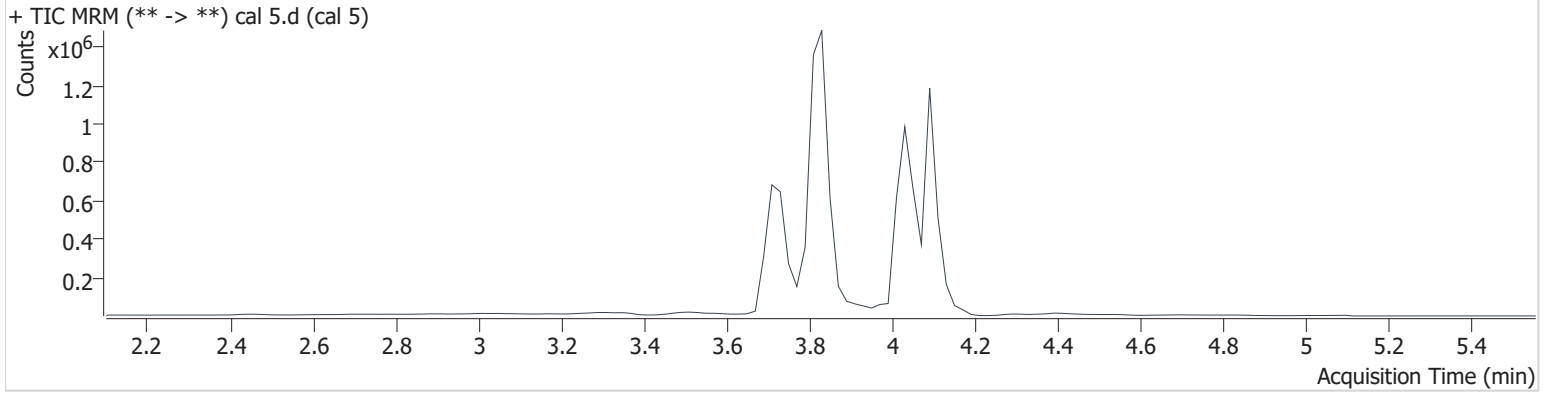
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:40:24 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	356485	1795798	20.353 ng/ml
THC-COOH	3.832	1257262	1389825	75.058 ng/ml
THC-OH	3.719	92680	1768213	24.784 ng/ml



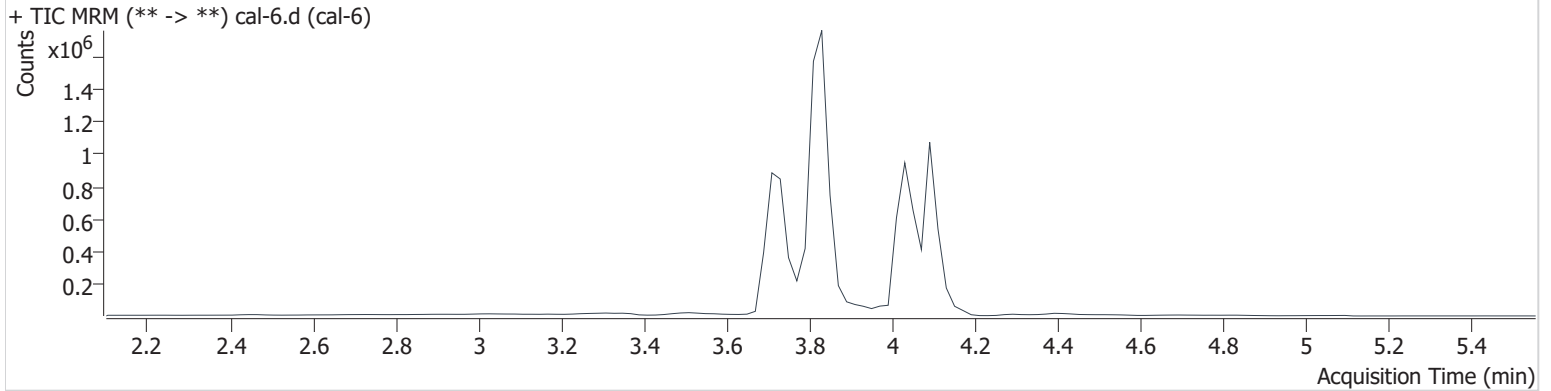
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:47:01 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	687862	1351961	51.284 ng/ml
THC-COOH	3.832	1591672	1333817	98.945 ng/ml
THC-OH	3.719	185057	1773811	49.372 ng/ml

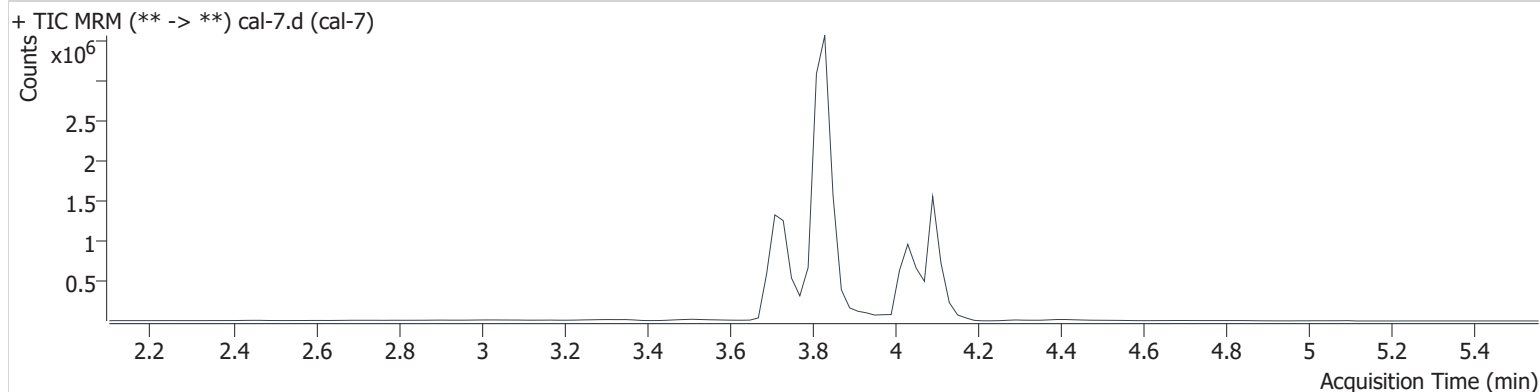
GA

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2020 Data\am 26 073020\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 7/31/2020 9:17:01 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>	7/30/2020 2:53:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	1441699	1389468	104.000 ng/ml
THC-COOH	3.832	3767429	1241577	251.272 ng/ml
THC-OH	3.719	376059	1769579	100.614 ng/ml