REVIEWED
By Sarah Collins at 10:50 am, Nov 03, 2021

11/1/2021

Worklist: 5340

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-2240		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2244		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2246		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2249	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2259		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2265		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2268		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2277		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2279		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2286	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2296		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2297		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2301		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2324		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2326		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2327		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2339		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: 11/1/21 Analyst: Anne Nord
Plate lot#: 210611 Plate retest date: 12/11/21

Mobile phase A: 10mM Ammonium Formate **Mobile phase B:** 0.1% Formic Acid in MeOH
0.5M Ammonium Hydroxide 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:

	1	2	3	4	5	6	7	8	9	10	11	12
A	cal 1			2279-1				negative urine				
B			negative	2296-1				Positive urine				
C			2240-1	2297-1				2259-1				
D			2244-1	2324-1				2301-1				
E			2246-1	2326-1								
F			2265-1	2327-1				2249-2				
G			2268-1	2339-1				2286-2				
H			2277-1									

lab number format
C2021-____-_

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, 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
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

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

ppd 6/25/21, exp 6/25/22 lot u62522 negative urine 5621 by AMN

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

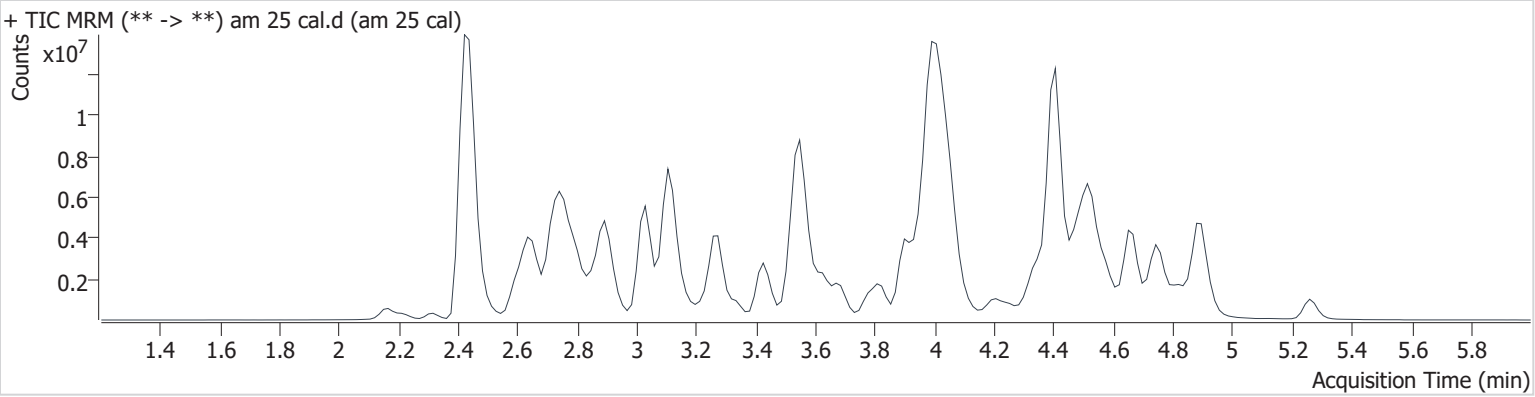
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\mds.batch.bin
Calibration Last Update 11/2/2021 2:28:28 PM

Instrument	69679	**Data File**	am 25 cal.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-A1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	11/1/2021 11:57:54 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.952	36821	16801.4	1335.7	1211998	10.000
7-aminoclonazepam	3.354	190400	1191.5	134508.3	1399185	10.000
7-aminoflunitrazepam	3.583	691568	256053.2	377.3	1399185	10.000
Acetyl Fentanyl	4.254	161729	119.1	67950.5	16436745	10.000
Acetyl Norfentanyl	2.641	208140	1748.9	210.8	16436745	10.000
a-hydroxyalprazolam	4.377	66848	629.4	1530.9	1399185	10.000
alpha-hydroxymidazolam	4.468	850284	323.5	182.9	1399185	10.000
alpha-PHP	3.971	1703487	21747.7	1404.6	5843515	10.000
alpha-PVP	3.635	2438167	2782.1	151.3	5843515	10.000
Alprazolam	4.488	985186	264.5	539.2	4962253	10.000
Amitriptyline	4.553	494461	87.2	292.9	2521642	10.000
Amphetamine	2.646	2212796	857.6	763.5	5843515	10.000
Benzoylecgonine	3.122	99836	151.2	38.0	179415	10.000
Brompheniramine	4.024	47143	83.1	18.0	31787660	10.000
Buprenorphine	5.272	117083	56817.0	573.5	2569548	10.000
Bupropion	3.971	2290150	696.8	511.9	9416265	10.000
Carbamazepine	4.064	3632163	1259.9	855.3	38104	10.000
Carisoprodol	4.046	473803	438.3	48.8	2752804	10.000
Chlordiazepoxide	4.612	332858	120535.8	278.0	4962253	10.000
Chlorpheniramine	3.906	3111683	3866.4	217.1	31787660	10.000
Citalopram	4.007	1541594	591.3	120.0	31787660	10.000
Clomimpramine	4.808	917327	557.3	309.6	4839211	10.000
Clonazepam	4.286	166379	176.2	21712.6	4962253	10.000
Clonazolam	4.205	454659	178240.9	69362.2	4962253	10.000
Cocaethylene	3.778	2391699	3356.6	7207.4	31787660	10.000
Cocaine	3.580	3051234	1032.8	262438.0	16368898	10.000
Codeine	2.908	269721	116.4	972.5	197350	10.000
Cyclobenzaprine	4.430	1063504	316.1	76.0	2521642	10.000
Desipramine	4.323	1487435	4080.0	845.5	2521642	10.000
Dextromethorphan	4.076	955409	592.9	345580.7	5039086	10.000
Dextrorphan	3.234	1554947	923.8	704.5	5039086	10.000
Diazepam	4.750	631793	2815.4	∞	4962253	10.000
Dihydrocodeine	2.649	722067	612.8	588.2	1998629	10.000
Diphenhydramine	4.016	4331317	802.9	1321.3	31787660	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.229	815951	210.4	104.8	11466848	10.000
Doxylamine	3.524	5260703	344.0	180.4	5039086	10.000
EDDP	3.967	858794	20974.6	928410.0	1998629	10.000
Estazolam	4.397	1847022	392.6	4729.8	4962253	10.000
Etizolam	4.514	108226	60363.9	148069.4	4962253	10.000
Fentanyl	4.499	116812	110.6	4528.3	7287063	10.000
Flualprazolam	4.330	379114	82145.6	3582.6	4962253	10.000
Flunitrazepam	4.425	870974	645.5	528.1	4962253	10.000
Fluoxetine	4.256	864533	345604.6	18279.3	1881099	10.000
Flurazepam	4.513	1687578	1104810.5	299.4	4962253	10.000
Hydrocodone	3.183	787291	407.5	267.7	4880149	10.000
Hydromorphone	2.439	709920	231.2	793.1	197350	10.000
Imipramine	4.476	2037996	503.0	241.5	2521642	10.000
Ketamine	3.956	1851837	847.8	76.0	11121633	10.000
Lamotrigine	3.434	139028	248.2	434.2	31787660	10.000
Levamisole	3.039	1527382	527.9	110.1	5039086	10.000
Levetireacetam	2.325	380365	1353.5	318.0	4839211	10.000
Lorazepam	4.285	29912	73.5	∞	4962253	10.000
Maprotiline	4.553	283023	445.0	48.5	2521642	10.000
MDA	2.765	1445696	505.7	278.2	15269381	10.000
MDEA	3.039	2308346	4399.9	308.4	15269381	10.000
MDMA	2.871	2842939	563.4	440.9	15269381	10.000
Meperidine	3.633	1430669	426.7	628.7	5039086	10.000
Meprobamate	3.437	127706	156.8	41.3	2752804	10.000
Methadone	4.349	2424445	6590.2	385.9	1998629	10.000
Methamphetamine	2.767	5205383	∞	7293176 3150897. 5	15269381	10.000
Methocarbamol	3.343	105142	353.8	1066.8	1998629	10.000
Methylphenidate	3.435	4978055	4678.9	773.2	11121633	10.000
Metoprolol	3.249	440636	394.6	39456.8	5039086	10.000
Midazolam	4.669	335733	954.0	397.7	4962253	10.000
Mirtazapine	4.524	1753320	6956.7	1187.1	5039086	10.000
Mitragynine	4.496	219376	271.0	190174.4	5039086	10.000
Morphine	2.214	210018	1324.1	81639.1	197350	10.000
Norbuprenorphine	3.759	35593	16358.6	14544.3	197350	10.000
Nordiazepam	4.569	244972	∞	227012.5	4962253	10.000
Norfentanyl	3.129	3270511	747.6	273.6	16436745	10.000
Norhydrocodone	2.712	37240	86.9	8885.4	4880149	10.000
norketamine	3.942	304730	719.7	908.9	11121633	10.000
Normeperidine	3.451	1466542	284.8	947.9	31787660	10.000
Noroxycodone	2.634	816640	∞	553.8	7584211	10.000
Nortriptyline	4.370	557565	279634.6	433.8	2521642	10.000
O-desmethyl-tramadol	2.670	4291816	19811.7	135.7	31787660	10.000
Olanzapine	4.056	727692	353054.6	548.2	38104	10.000
Oxazepam	4.367	107585	51.4	18.9	539493	10.000
Oxycodone	2.846	1533003	411.8	954.0	7584211	10.000
Oxymorphone	2.164	790592	235.6	276.3	197350	10.000
Paroxetine	4.299	170293	124.6	35530.6	1881099	10.000
Phenazepam	4.514	317551	236954.1	82287.6	4962253	10.000
Phencyclidine	3.833	2564960	174.3	219.7	5039086	10.000
Phentermine	2.919	31743	74.5	∞	11121633	10.000
Phenytoin	3.955	66843	32778.3	56.7	38104	10.000
Promethazine	4.583	2427512	1204.7	239.7	31787660	10.000
Pseudoephedrine	2.431	44365792	1912.0	46488.1	15269381	10.000
Quetiapine	4.727	2731158	1667142.1	549.1	26147657	10.000
Sertraline	4.596	380979	20096.1	3810.9	1881099	10.000
Sufentanil	4.940	83413	4486.0	72.9	16436745	10.000
Tapentadol	3.268	2802967	1741.2	290.8	1998629	10.000
Temazepam	4.535	981906	4407.8	45.9	4962253	10.000

AM #25 Multi-Drug Screen Results

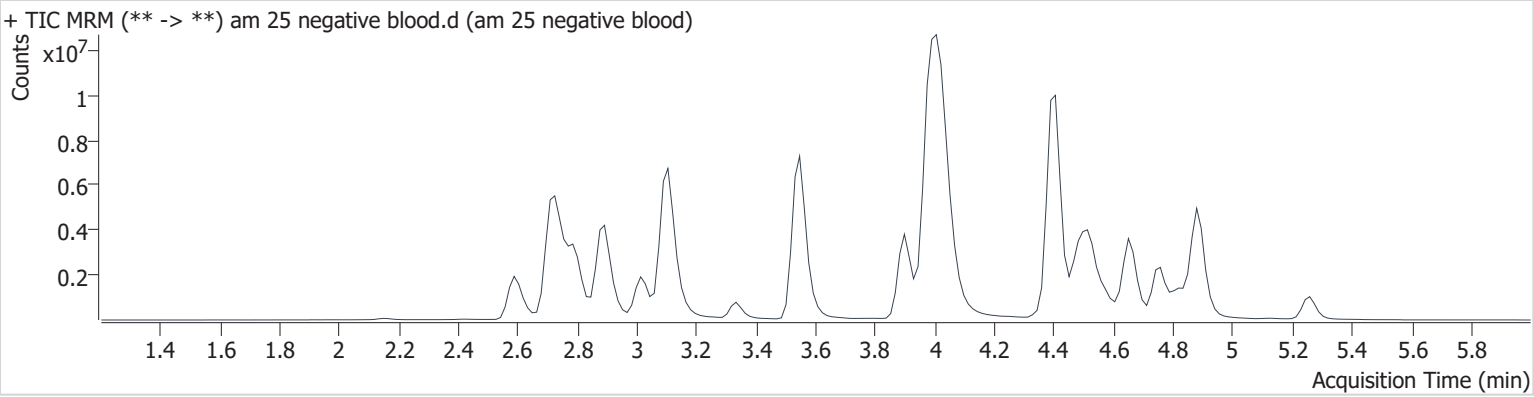
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Tramadol	3.280	4448314	1288.4	60.6	31787660	10.000
Trazodone	4.911	2439980	1346944.8	2551.4	11466848	10.000
Venlafaxine	3.691	3416672	2457.3	470.0	1881099	10.000
Zaleplon	4.196	778090	482.3	1111.2	26147657	10.000
Zolpidem	4.411	4952249	1897605.6	1266.3	26147657	10.000
Zopiclone	4.405	496617	279.6	1842.2	2639511	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\mds.batch.bin
Calibration Last Update 11/2/2021 2:28:28 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-B3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	11/1/2021 12:04:37 PM		
Sample Info.			

Sample Chromatogram

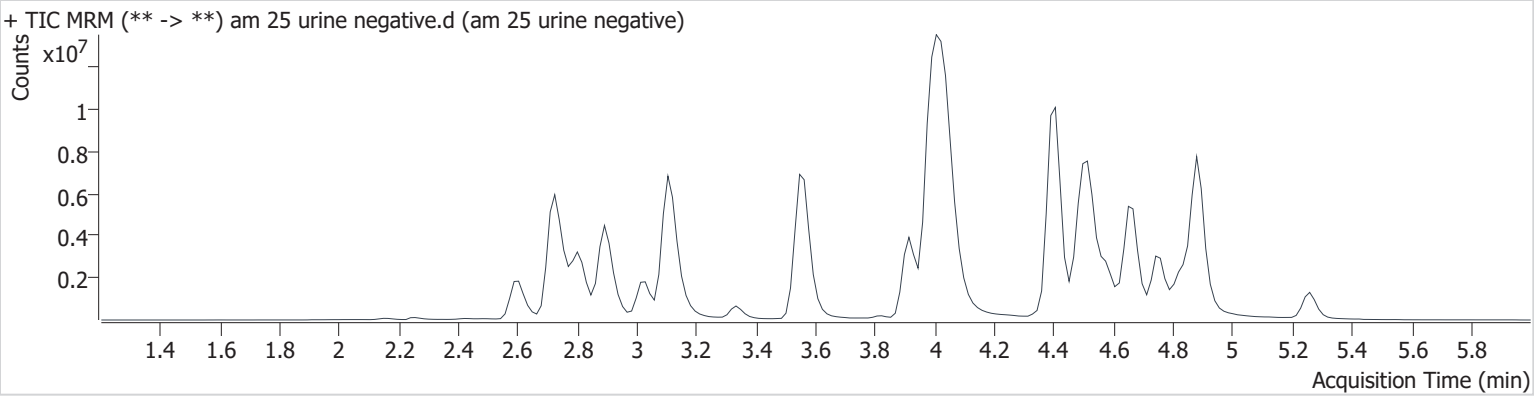


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\mds.batch.bin
Calibration Last Update 11/2/2021 2:28:28 PM

Instrument	69679	**Data File**	am 25 urine negative.d
Type	Sample	**Sample**	am 25 urine negative
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-A8	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	11/1/2021 1:38:22 PM		
Sample Info.			

Sample Chromatogram

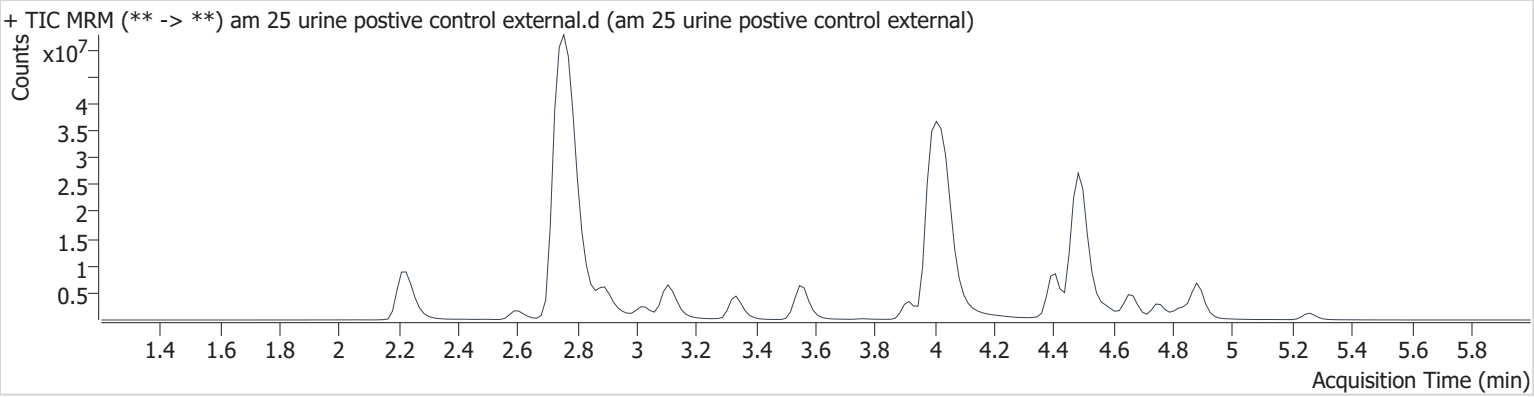


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\mds.batch.bin
Calibration Last Update 11/2/2021 2:28:28 PM

Instrument	69679	**Data File**	am 25 urine postive control external.d
Type	Sample	**Sample**	am 25 urine postive control external
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-B8	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	11/1/2021 1:45:04 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.488	43996234	∞	26289.4	4442550	498.820
Diphenhydramine	4.016	95724584	401.6	676.7	31047899	226.272
Methamphetamine	2.767	91976699	∞	∞	14947455	180.501
Methocarbamol	3.343	6553341	6657.7	5868.8	2439972	510.547
Morphine	2.229	11448688	106606.8	6179.3	174684	615.860

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

Extraction Date: 11/1/21 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 8**00 µL of blood acid or urine acid** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
☒ 8. Wait 5 minutes.
☒ 9. Add **2.25 mL MTBE** (add in 3 increments of 750 µL).
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 16. Reconstitute in **100 µL 100% LCMS MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
☒ 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
☒ 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
☒ 4. Did all QCs pass for each analyte? Yes
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *THC-OH curve 1-25*

	1	2	3	4	5	6
a	cal 1	neg blood	2296-1	2259-1		
b	cal 2	2240-1	2297-1	2301-1		
c	cal 3	2244-1	2324-1	2286-2		
d	cal 4	2246-1	2326-1	urine positive control		
e	Cal 5	2265-1	2327-1	2277-1		
f	cal 6	2268-1	2339-1			
g	cal 7		urine negative control			
h	Internal control	2279-1	2249-2			

C2021-____-_

Toxicology AM method 27/26 external prep informati

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

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH
Ppd 8/26/21 Exp: 8/26/22 lot 82621 by AMN

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

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

		Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	

AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine **out of use**

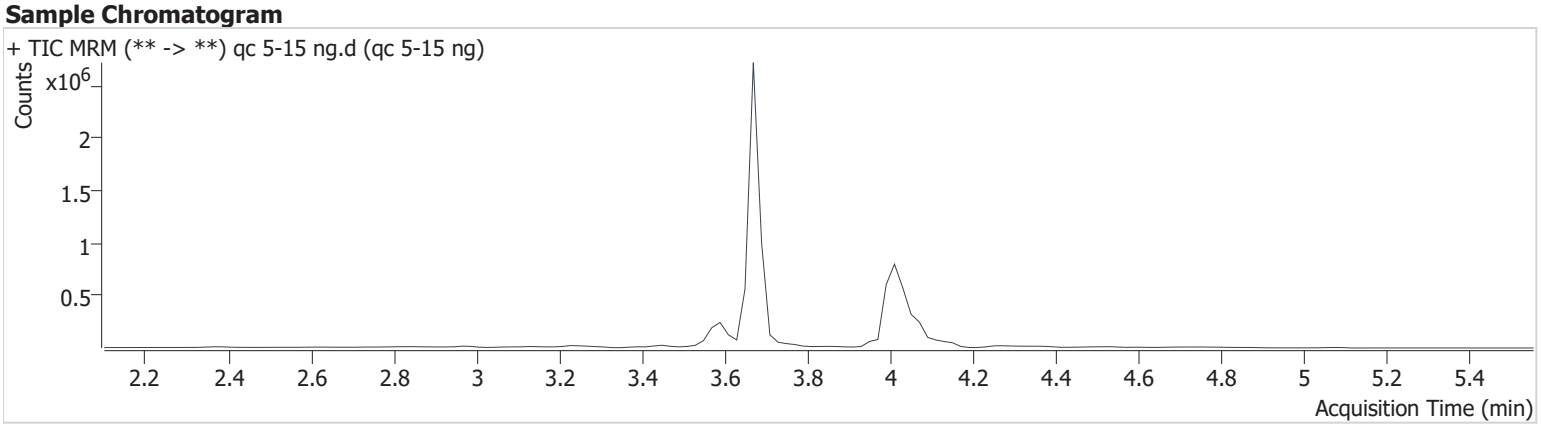
ppd 8/26/21 Exp 8/26/22 neg urine lot 5621	lot u82621	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	qc 5-15 ng.d
Type	QC	**Sample**	qc 5-15 ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:49:23 PM		
Sample Info.			

Sample Chromatogram



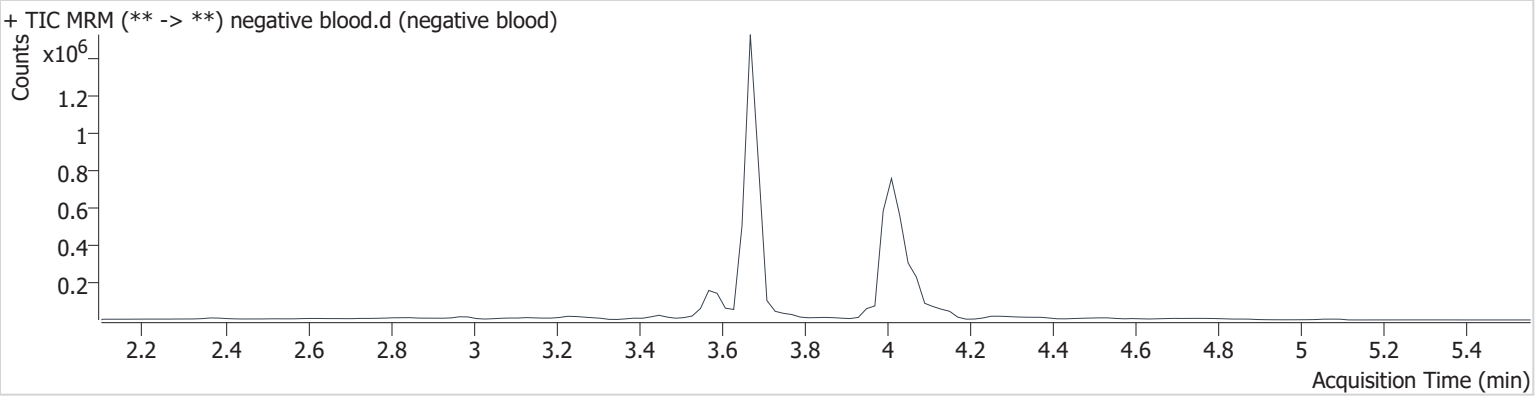
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	10956	266305	4.832 ng/ml
THC-COOH	3.592	112651	481483	17.707 ng/ml
THC-OH	3.679	33726	4882191	5.008 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:56:00 PM		
Sample Info.			

Sample Chromatogram

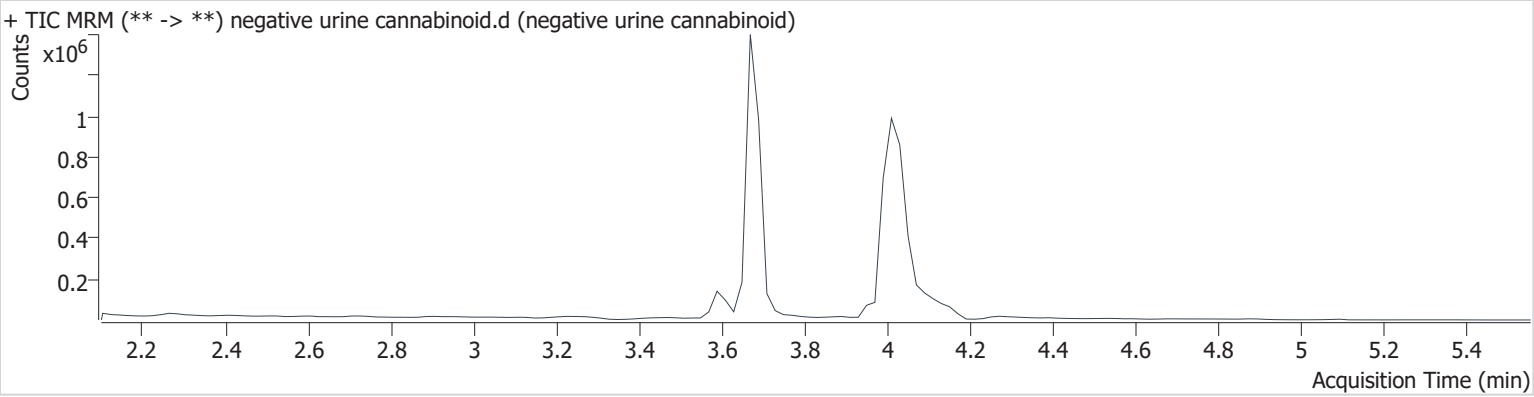


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	negative urine cannabinoid.d
Type	Sample	**Sample**	negative urine cannabinoid
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-G3	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 6:21:56 PM		
Sample Info.			

Sample Chromatogram

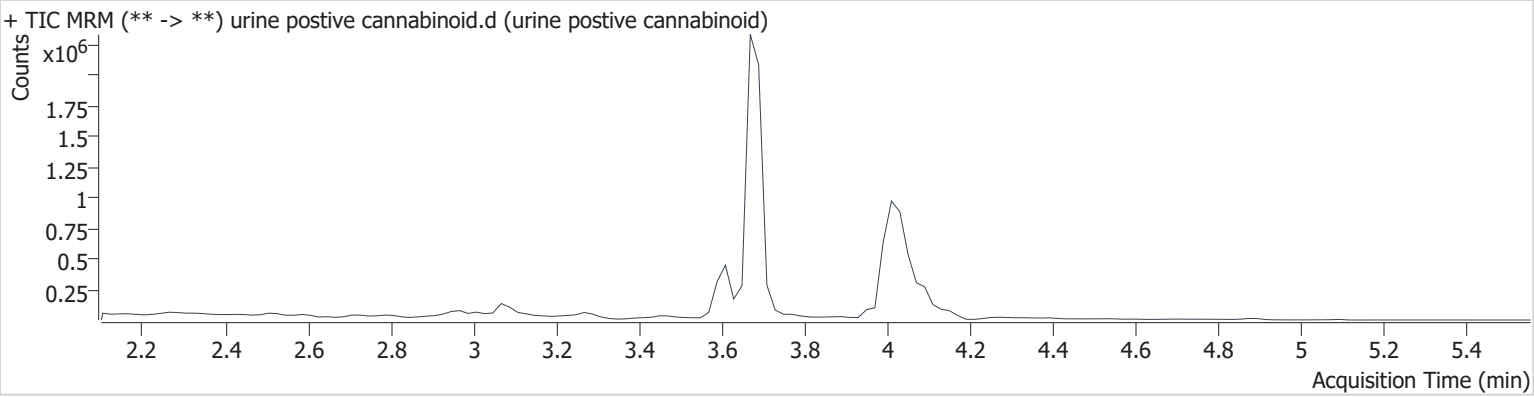


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	urine postive cannabinoid.d
Type	Sample	**Sample**	urine postive cannabinoid
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-D4	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 6:54:59 PM		
Sample Info.			

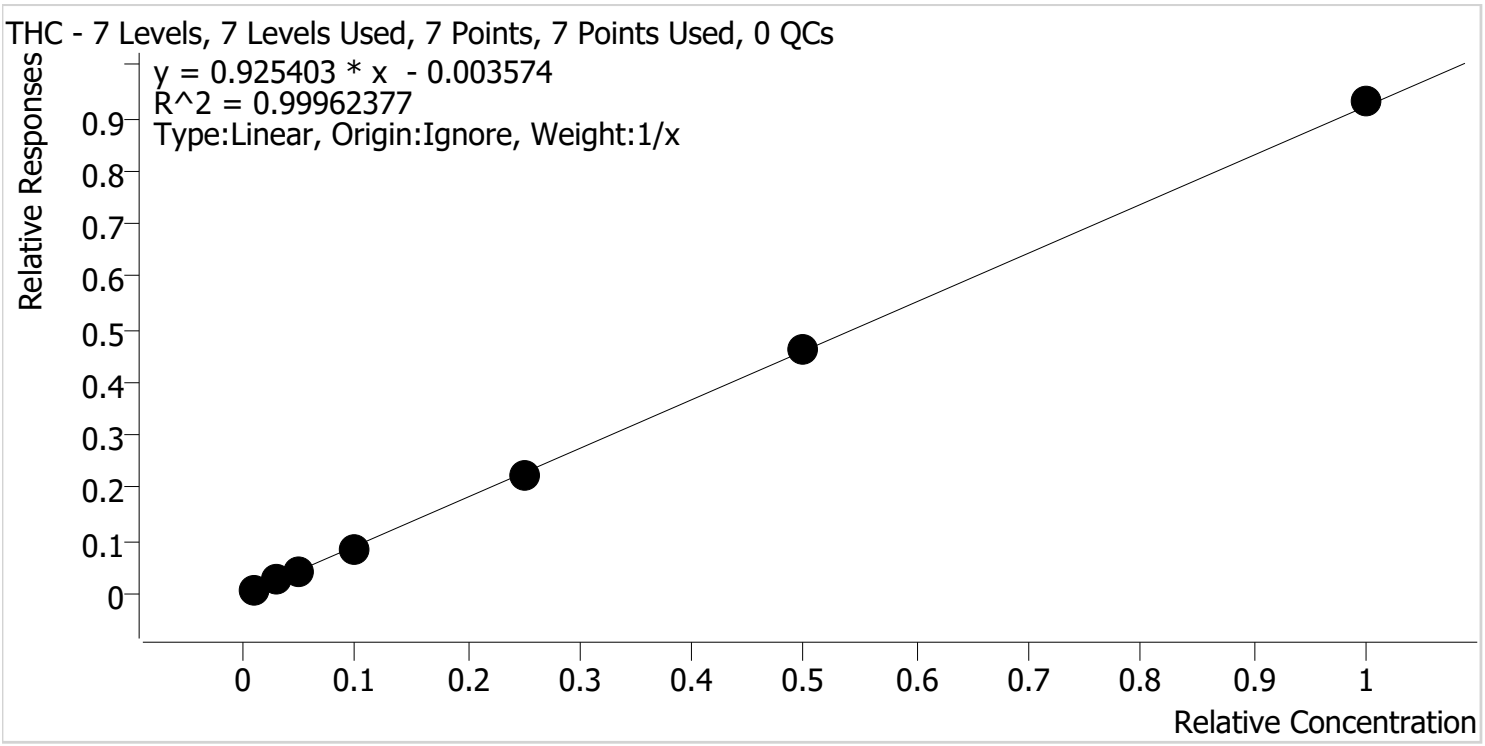
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	158587	323119	53.423 ng/ml
THC-COOH	3.612	290788	437731	49.861 ng/ml
THC-OH	3.679	249373	3757578	51.128 ng/ml

Compound Calibration Report

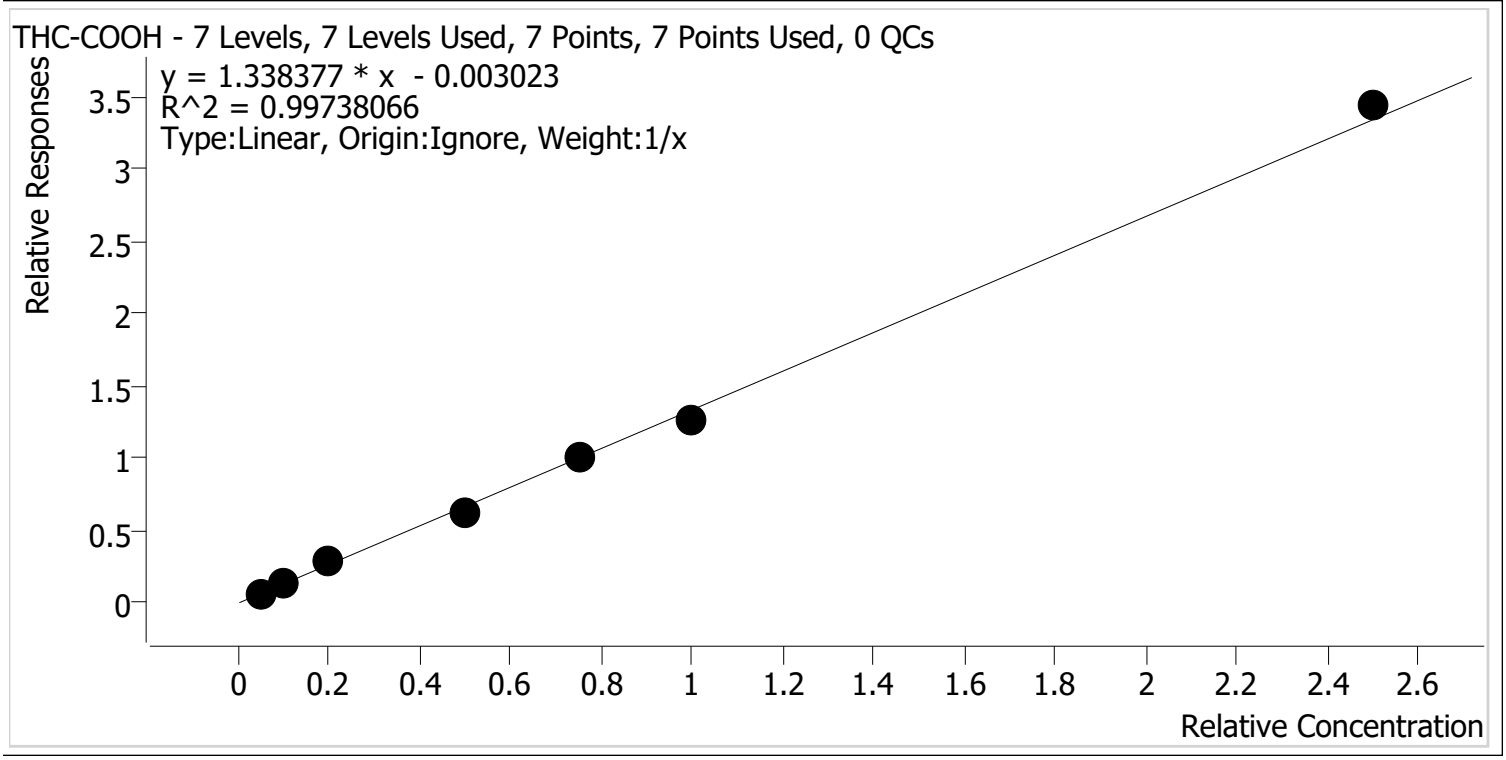
Batch results	D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Last Cal. Update	11/2/2021 1:34 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	108.7
cal 2	2	✔	3.0	2.9	97.8
cal 3	3	✔	5.0	5.0	100.2
cal 4	4	✔	10.0	9.4	93.9
cal 5	5	✔	25.0	24.6	98.4
cal-6	6	✔	50.0	50.0	100.0
cal-7	7	✔	100.0	101.0	101.0

Compound Calibration Report

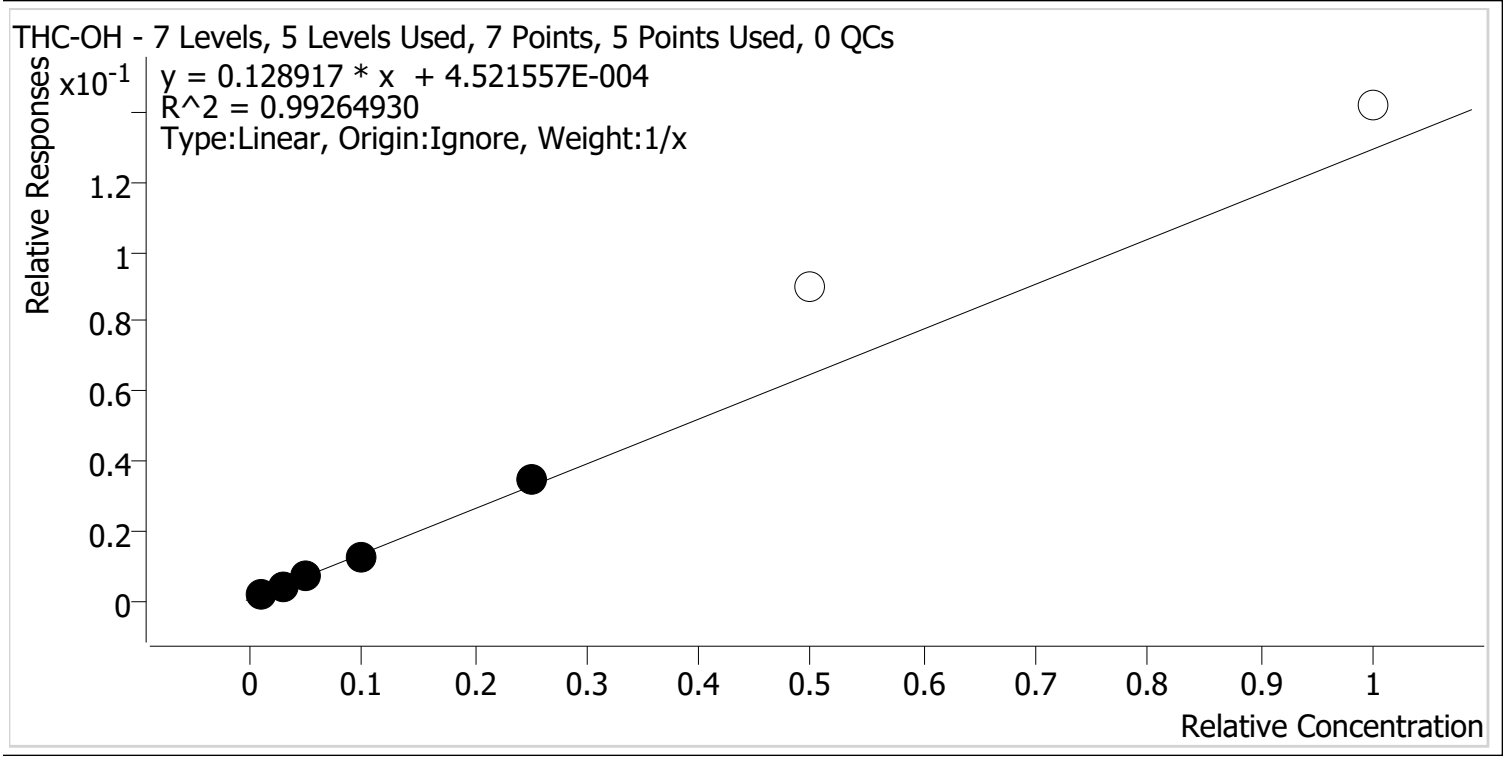
Batch results	D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Last Cal. Update	11/2/2021 1:34 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	4.9	97.6
cal 2	2	✔	10.0	10.6	105.9
cal 3	3	✔	20.0	21.2	106.2
cal 4	4	✔	50.0	46.0	92.0
cal 5	5	✔	75.0	76.0	101.3
cal-6	6	✔	100.0	94.0	94.0
cal-7	7	✔	250.0	257.3	102.9

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Last Cal. Update	11/2/2021 1:34 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	113.8
cal 2	2	✔	3.0	2.8	94.3
cal 3	3	✔	5.0	4.9	98.0
cal 4	4	✔	10.0	8.9	88.9
cal 5	5	✔	25.0	26.2	105.0
cal-6	6	✗	50.0	69.3	138.6
cal-7	7	✗	100.0	109.7	109.7

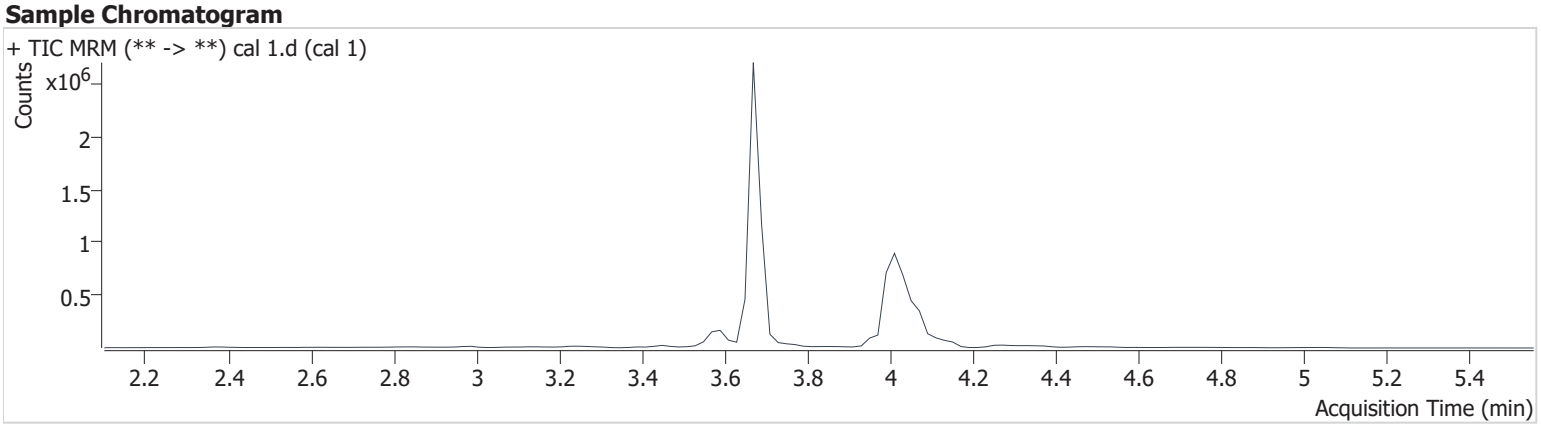
Dropped cal 6 and 7 due to accuracy.

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal 1.d
Type	Cal	**Sample**	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:03:05 PM		
Sample Info.			

Sample Chromatogram



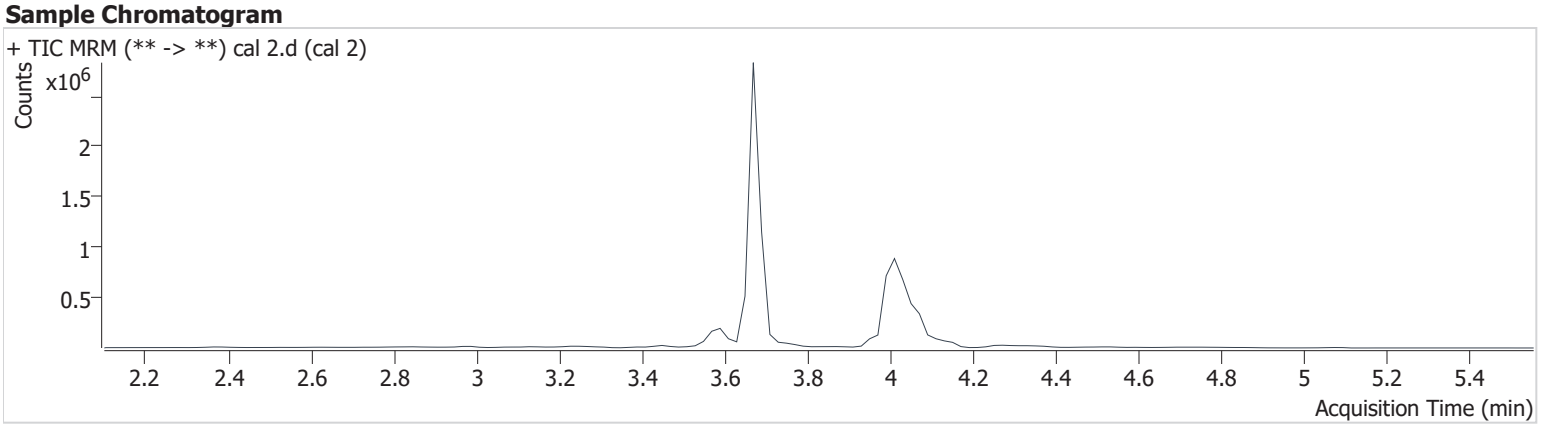
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	2221	342489	1.087 ng/ml **Low**
THC-COOH	3.592	25412	407844	4.881 ng/ml **Low**
THC-OH	3.679	10161	5293967	1.138 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:09:43 PM		
Sample Info.			

Sample Chromatogram



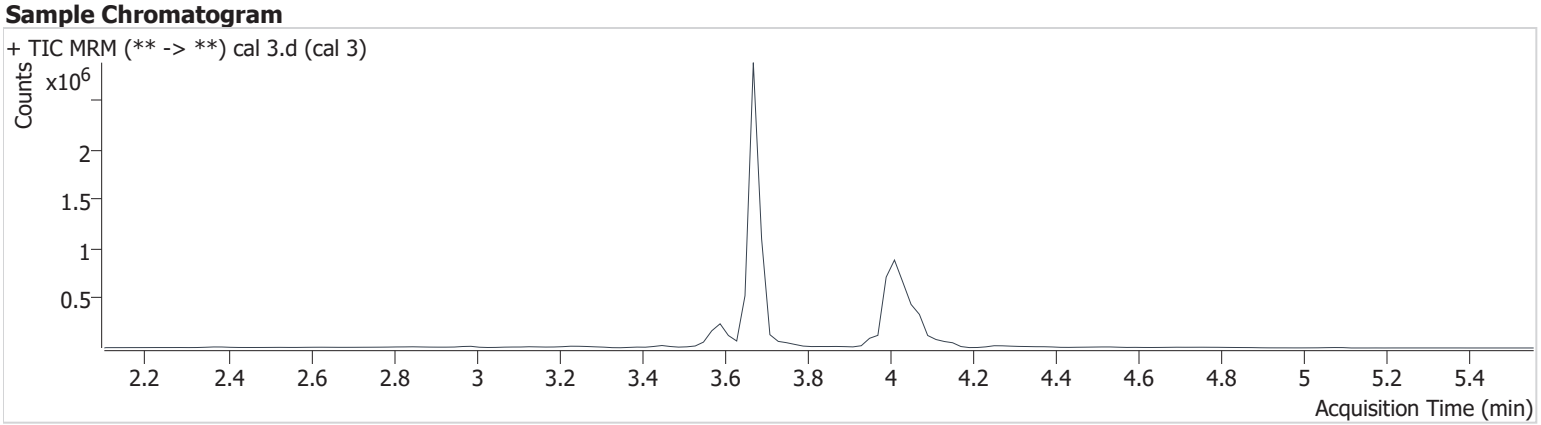
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	8168	346497	2.933 ng/ml **Low**
THC-COOH	3.592	56279	405794	10.588 ng/ml
THC-OH	3.679	21846	5331126	2.828 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:16:19 PM		
Sample Info.			

Sample Chromatogram



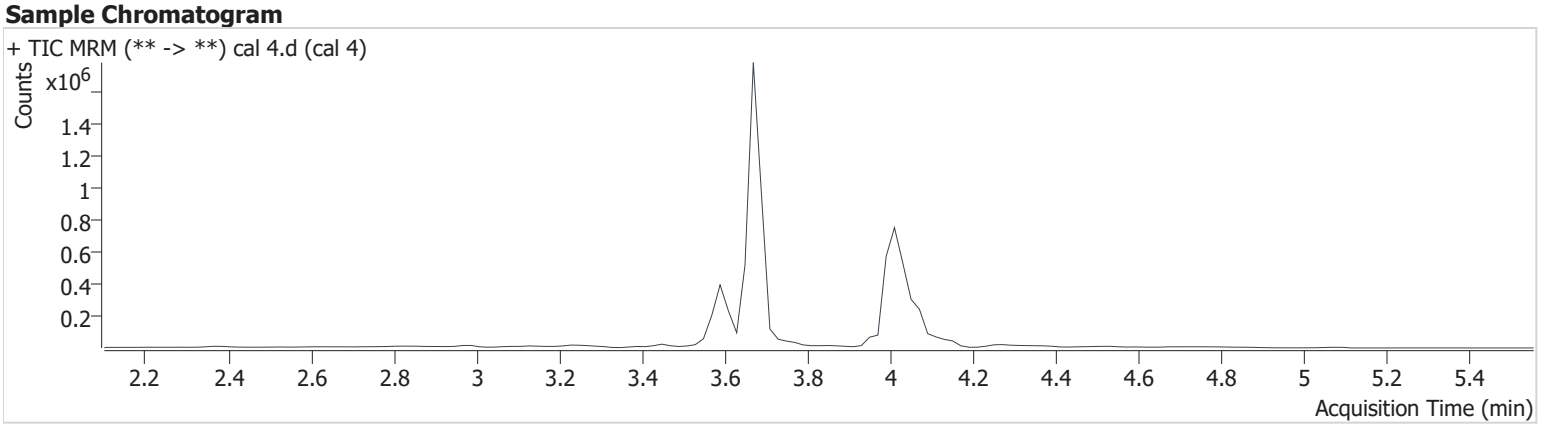
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	15470	361354	5.012 ng/ml
THC-COOH	3.592	112301	399107	21.250 ng/ml
THC-OH	3.679	35255	5206011	4.902 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:22:55 PM		
Sample Info.			

Sample Chromatogram



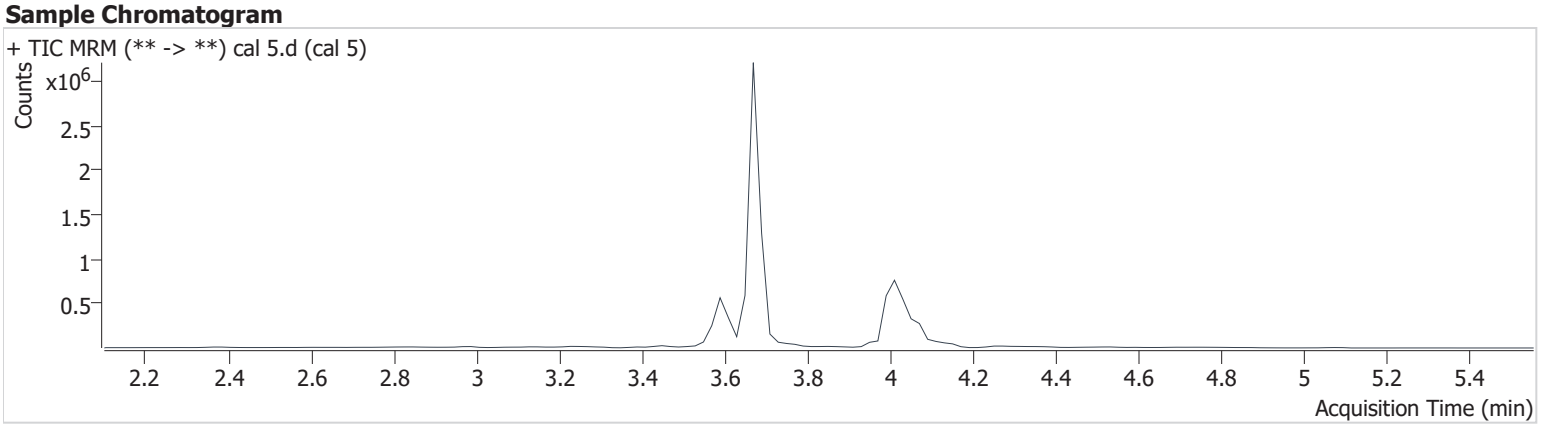
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	23406	280934	9.389 ng/ml
THC-COOH	3.592	269162	439349	46.001 ng/ml
THC-OH	3.699	39889	3347791	8.892 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal 5.d
Type	Cal	**Sample**	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:29:33 PM		
Sample Info.			

Sample Chromatogram



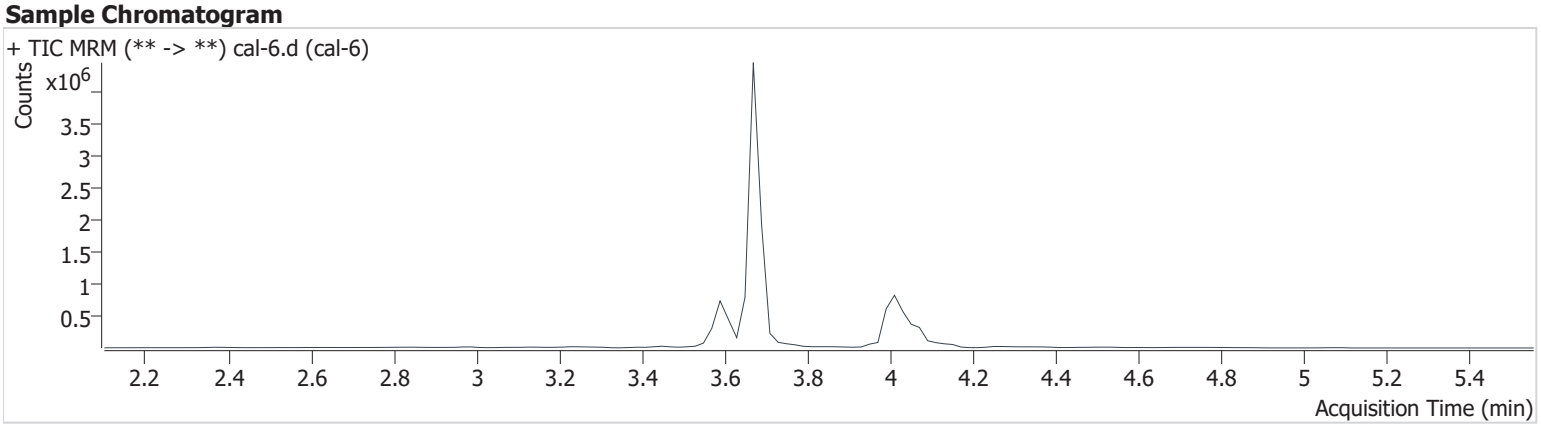
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	62860	280605	24.593 ng/ml
THC-COOH	3.592	430002	424172	75.970 ng/ml
THC-OH	3.679	153708	4483892	26.240 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:36:10 PM		
Sample Info.			

Sample Chromatogram



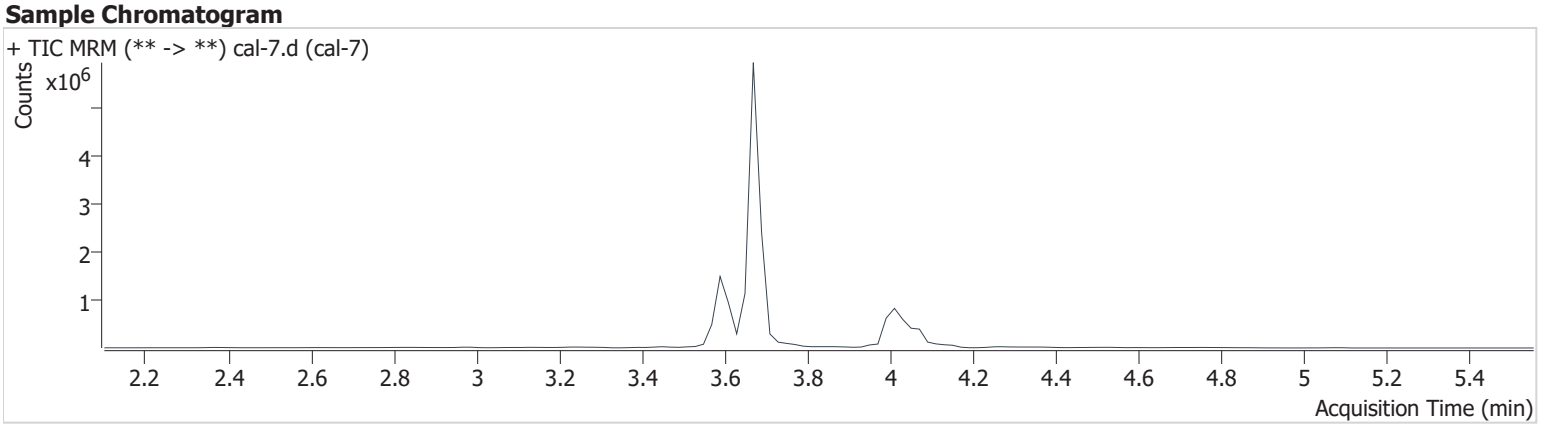
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	125448	273097	50.024 ng/ml
THC-COOH	3.592	607358	483751	94.035 ng/ml
THC-OH	3.679	438743	4886954	69.290 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\110121\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2021 1:34:08 PM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	11/1/2021 4:42:47 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	246161	264487	100.960 ng/ml
THC-COOH	3.592	1403994	408104	257.275 ng/ml
THC-OH	3.679	624125	4400236	109.672 ng/ml