REVIEWED
By Anne Nord at 4:16 pm, Sep 14, 2020

9/10/2020 BW

Worklist: 4503

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2020-1650	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1691	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1697	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1698	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1710	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1725	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1728	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1729	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1734	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1739	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1747	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1748	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1750	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1774	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1775	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1780	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1783	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1783	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-1785	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1800	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-1801	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

BW

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

Extraction Date: 9/10/2020 Analyst: Britany Wylie
Plate lot#: 200511 Plate Expiration: 11/11/2020

Mobile phase A: 10mM Amm Form **Mobile phase B:** 0.1% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate LC Methanol
Blank Blood Lot: 20G20792 **Blank Urine lot:** 73020 **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 50ul 1% HCl in MeOH** Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 16. Reconstitute in **100 µL 20% LC MeOH** in LC Water and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Open quantitation software and create a new quantitation batch.
☒ 2. Make necessary changes to integration limits
☒ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
☒ 4. Did all QCs pass for each analyte? (If no is it described in comments?)
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Chlorpheniramine not evaluated- no secondary transition detected

9/10 mds

	1	2	3	4	5	6	7	8	9	10	11	12
A	Cal 1	1725	1780	1739-3								
B	Cal 1	1728	1783-1	1785								
C	Cal 2	1729	1783-2	1800								
D	Cal 2	1747-2	uneg	1801								NEG
E	NEG	1748	uctrl	b ext								Cal 2
F	1650	1750	1691									Cal 2
G	1697	1774	1710									Cal 1
H	1698	1775-2	1734									Cal 1

All wells to contain 60 µl of residual DMSO

Case prefix: C2020-

mds = multi-drug screen

BW

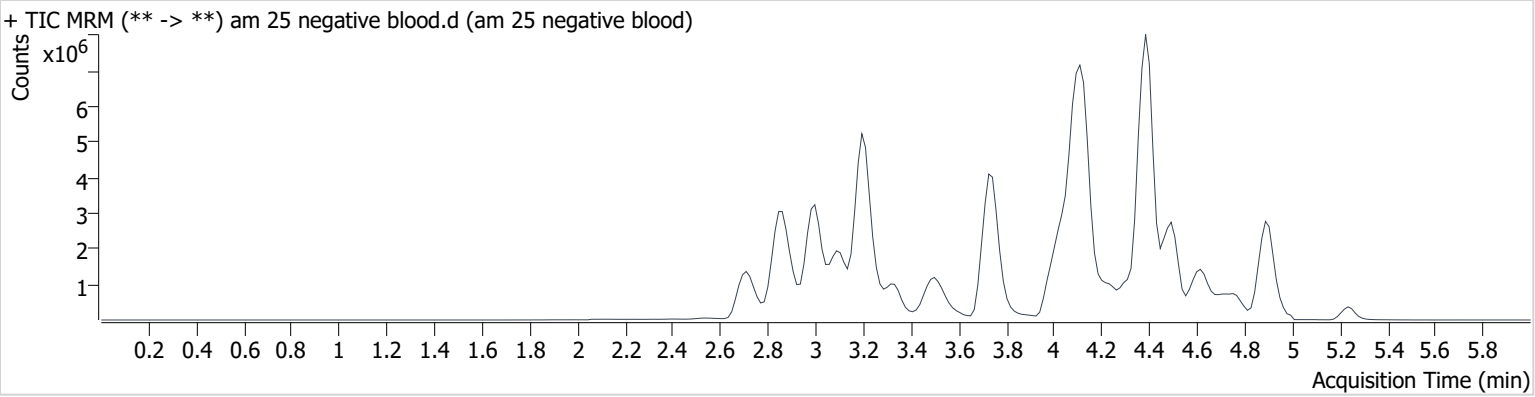
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\mds.batch.bin
Calibration Last Update 9/11/2020 8:36:11 AM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P2-E1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	9/10/2020 8:10:58 PM		
Sample Info.			

Sample Chromatogram



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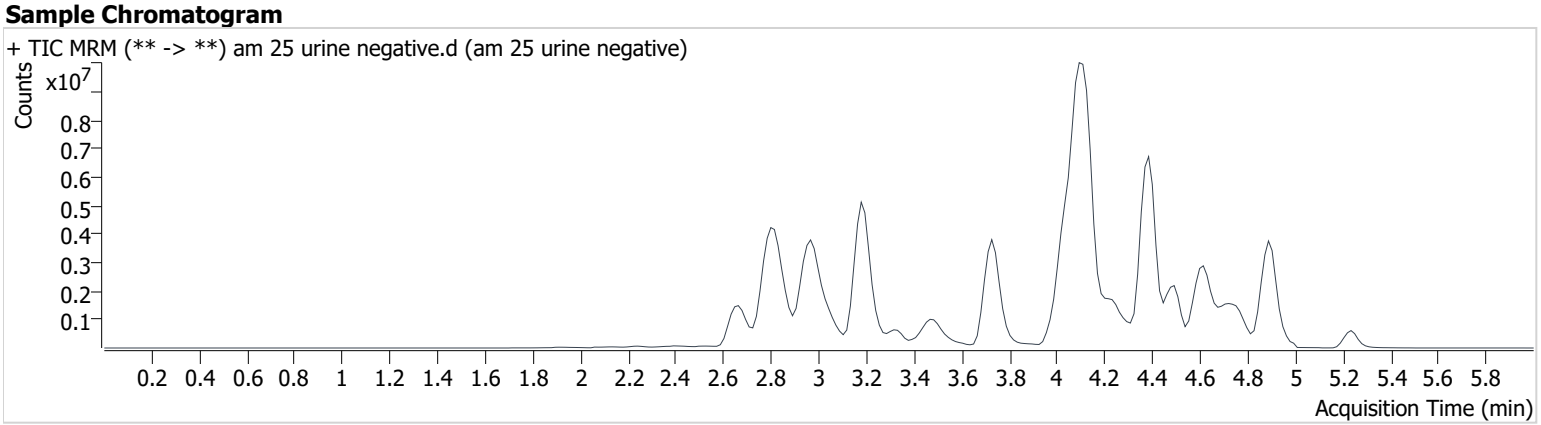
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\mds.batch.bin
Calibration Last Update 9/11/2020 8:36:11 AM

Instrument	69679	**Data File**	am 25 urine negative.d
Type	Sample	**Sample**	am 25 urine negative
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P2-D3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	9/10/2020 10:11:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.841	2952359	98.7	104.2	19530733	4.498 <32

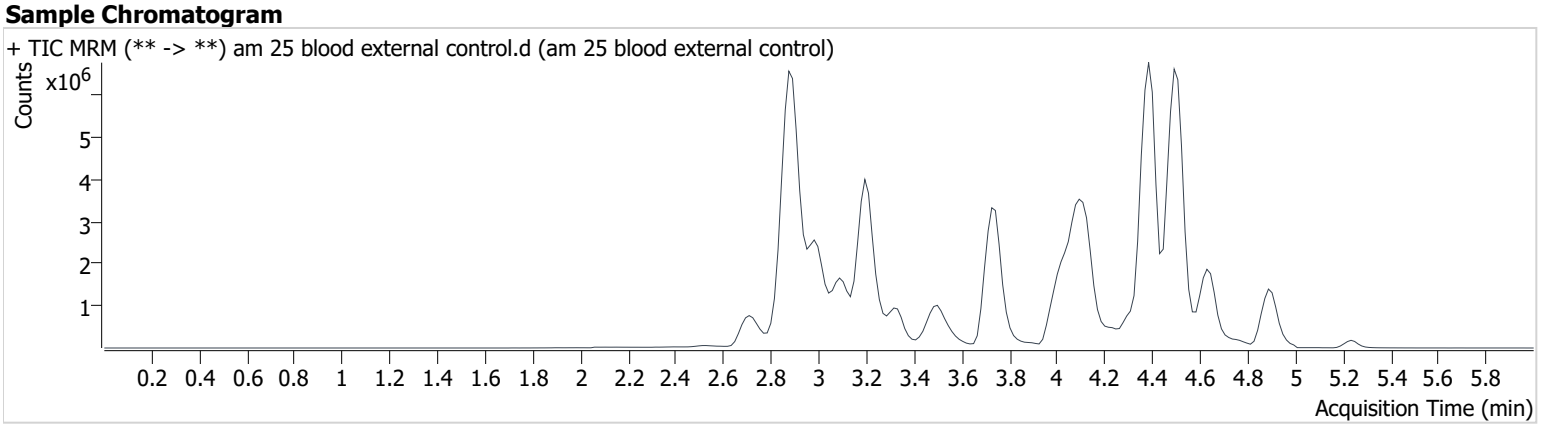
AM #25 Multi-Drug Screen Results

BW

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\mds.batch.bin
Calibration Last Update 9/11/2020 8:36:11 AM

Instrument	69679	**Data File**	am 25 blood external control.d
Type	Sample	**Sample**	am 25 blood external control
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P2-E4	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	9/10/2020 8:24:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.902	14059854	299.6	135.4	6560246	63.772
Midazolam	4.648	3145557	972852.3	1213517.8	9194074	80.753
Temazepam	4.514	16292694	1477.5	855.4	9194074	96.038

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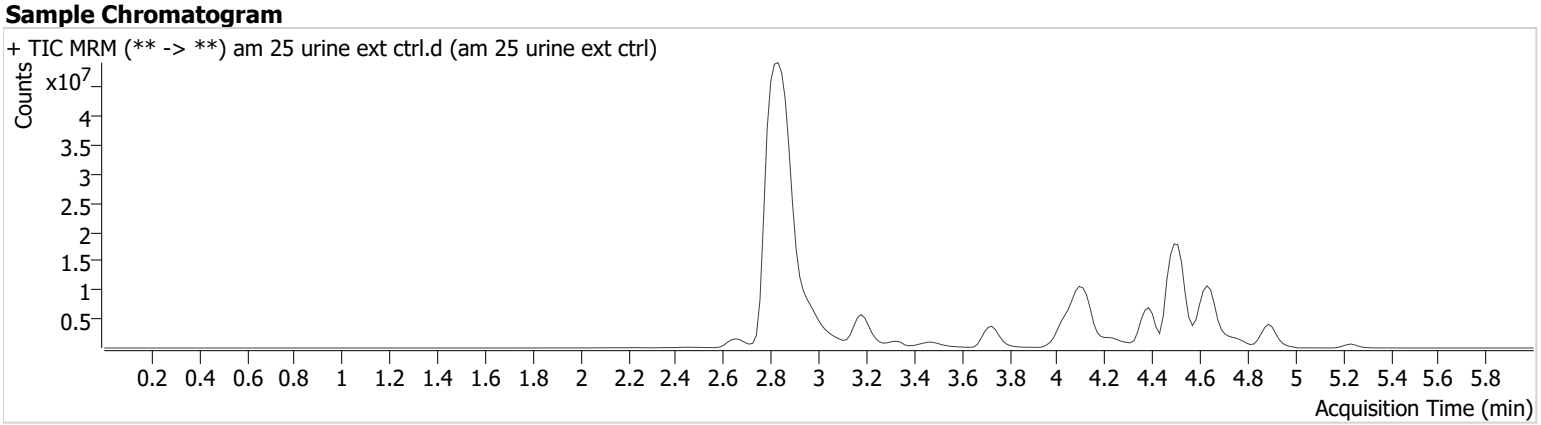
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\mds.batch.bin
Calibration Last Update 9/11/2020 8:36:11 AM

Instrument	69679	**Data File**	am 25 urine ext ctrl.d
Type	Sample	**Sample**	am 25 urine ext ctrl
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P2-E3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	9/10/2020 10:18:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.859	123328804	∞	1302.2	16443342	223.175
Midazolam	4.633	20418319	6512712.6	46730673.8	6603889	729.774
Temazepam	4.514	63200641	1389.4	1725.2	6603889	518.655

BW

Toxicology AM method 25/28 urine external control prep
working solution 10000 ng/ml in meoh methamphetamine, temazepam, midazolam
Stock solution 1mg/ml 50 ul each in 4850 ul MeOH (fisher 195629)

ppd 8/6/20: Exp: 4/1/2021 lot 4121 by baw

Drug	lot	expiration
Methamphetamine	FE08101708	10/1/2022
midazolam	FE01221602	4/1/2021
temazepam	FE04261601	5/1/2021

AM 25/28 control 500 ul working solution (4121) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 8/6/20, exp 4/1/2021 lot u4121 negative urine 73020 by AMN

AM 25/28 Blood Control: 50ul working solution (4121) in 4950 ul neg blood (100ng/mL Expected concentration)

ppp 8/6/20, exp 4/1/21 lot b4121 neg blood 20G20792 by AMN

BW

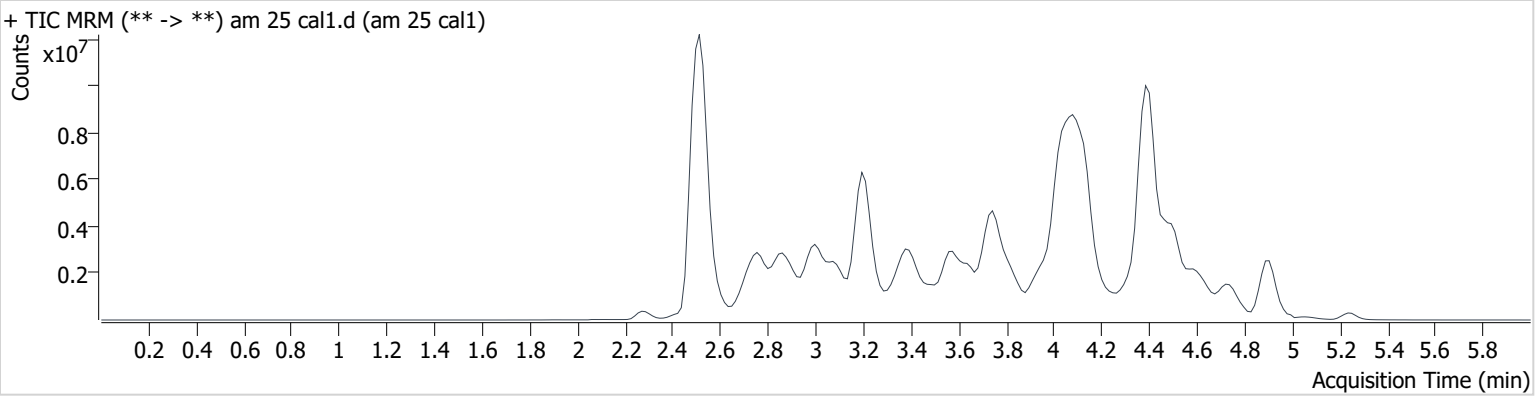
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\mds.batch.bin
Calibration Last Update 9/11/2020 8:36:11 AM

Instrument 69679
Type Cal
Acq. Method mds 826.m
Sample Position P2-A1
Injection Volume 2.5
Acq. Date-Time 9/10/2020 8:04:17 PM
Sample Info.

Data File am 25 cal1.d
Sample am 25 cal1
Operator Britany Wylie
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.284	29712	31013.3	14656.1	1045975	10.000
7-aminoclonazepam	3.350	747762	469.8	9084.6	2939015	10.000
7-aminoflunitrazepam	3.563	1328412	5707.5	15937.0	2939015	10.000
Acetyl Fentanyl	4.419	104315	35.9	9537.3	19310915	10.000
Acetyl Norfentanyl	2.729	203302	603.6	216.4	19310915	10.000
a-hydroxyalprazolam	4.341	186425	147.5	18170.1	2939015	10.000
alpha-hydroxymidazolam	4.432	2377932	411.6	633.7	2939015	10.000
alpha-PHP	4.135	1774363	707.3	92.7	4934879	10.000
alpha-PVP	3.860	2703699	377.3	914.4	4934879	10.000
Alprazolam	4.452	1470736	763.0	3784.7	9672760	10.000
Amitriptyline	4.731	238760	19.7	130.8	1201012	10.000
Amphetamine	2.751	2161108	1185.7	726.9	4934879	10.000
Benzoylecgonine	3.089	460950	353.3	92.9	210409	10.000
Brompheniramine	4.188	19367	33.1	7.9	21571504	10.000
Buprenorphine	5.250	219770	4292.0	21634.7	1016645	10.000
Bupropion	4.136	2358282	1570.2	733.8	8717410	10.000
Carbamazepine	4.028	4872442	∞	431.7	112739	10.000
Carisoprodol	4.011	742951	395.5	122.4	4735875	10.000
Chlordiazepoxide	4.575	693502	1254.0	110.7	9672760	10.000
Chlorpheniramine	4.071	2104792	762.4		21571504	10.000NE
Citalopram	4.172	965062	170.2	114.1	21571504	10.000
Clomimpramine	5.057	492114	249.3	515.6	21571504	10.000
Clonazepam	4.281	449403	∞	31808.9	9672760	10.000
Clonazolam	4.185	604050	737.8	1019.1	9672760	10.000
Cocaethylene	3.943	2807337	722762.2	964.4	18107805	10.000
Cocaine	3.760	3533205	702.1	590.0	18107805	10.000
Codeine	3.271	304001	2315.2	396.0	6686315	10.000
Cyclobenzaprine	4.609	394721	47.0	28.3	1201012	10.000
Desipramine	4.488	705612	316.0	60.3	1201012	10.000
Dextromethorphan	4.256	501895	62.8	203.3	2782217	10.000
Dextrorphan	3.444	1619151	414.0	581.4	2782217	10.000
Diazepam	4.714	805217	670.8	1143.5	9672760	10.000
Dihydrocodeine	2.950	786278	227.7	193.8	6686315	10.000
Diphenhydramine	4.150	3179648	1138.6	288.5	21571504	10.000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.440	338029	221.9	12.5	8767560	10.000
Doxylamine	3.641	5219531	276.9	482.0	2782217	10.000
EDDP	4.055	1617190	301.8	288366.5	846434	10.000
Estazolam	4.361	2729104	659.7	272410.9	9672760	10.000
Etizolam	4.478	158098	60127.6	167592.1	9672760	10.000
Fentanyl	4.632	48335	17.8	11378.3	3171653	10.000
Flualprazolam	4.310	687456	852.1	2330.1	9672760	10.000
Flunitrazepam	4.404	1338019	306741.2	190764.3	9672760	10.000
Fluoxetine	4.358	349329	198.2	5535.6	966831	10.000
Flurazepam	4.614	1269618	490479.1	57406.4	9672760	10.000
Hydrocodone	3.547	1054243	107.1	149.3	6686315	10.000
Hydromorphone	2.863	1009288	659.1	491.7	6686315	10.000
Imipramine	4.654	821272	90285.1	290.8	1201012	10.000
Ketamine	4.090	2474194	326.7	142.3	9302439	10.000
Lamotrigine	3.428	202279	671.9	370.0	21571504	10.000
Levamisole	3.387	1646323	2779.0	31.0	18107805	10.000
Levetireacetam	2.280	594199	555.3	362.1	21571504	10.000
Lorazepam	4.265	86984	287.1	193.7	9672760	10.000
Maprotiline	4.762	135660	13.2	153.3	1201012	10.000
MDA	2.929	1728017	250.3	421.5	7265743	10.000
MDEA	3.203	2434965	216.8	1185.6	7265743	10.000
MDMA	3.051	2988205	524.3	201.8	7265743	10.000
Meperidine	3.827	1607356	241.0	174.3	2782217	10.000
Meprobamate	3.402	242163	1216.9	69.9	4735875	10.000
Methadone	4.436	1501938	558.9	81.2	846434	10.000
Methamphetamine	2.886	2441791	∞	96.6	7265743	10.000
Methocarbamol	3.307	196526	82.7	209.4	846434	10.000
Methylphenidate	3.584	5984279	997.8	710.4	10105064	10.000
Metoprolol	3.367	439658	178.1	97.4	2782217	10.000
Midazolam	4.648	409810	89825.4	212003.6	9672760	10.000
Mirtazapine	4.580	1618655	2583.9	1271.5	2782217	10.000
Mitragynine	4.628	61036	46.8	2813.3	2782217	10.000
Morphine	2.591	246791	164.7	114.0	6686315	10.000
Norbuprenorphine	4.000	22130	4053.9	4549.1	1016645	10.000
Nordiazepam	4.549	783614	652.9	551.5	9672760	10.000
Norfentanyl	3.217	3681441	414.0	173.3	19310915	10.000
Norhydrocodone	2.954	94599	80.8	6.1	6686315	10.000
norketamine	3.983	456931	156.8	12501.7	9302439	10.000
Normeperidine	3.569	1345987	323.1	195.4	21571504	10.000
Noroxycodone	2.814	993185	53.8	127.2	9302439	10.000
Nortriptyline	4.534	209578	61.2	49.2	1201012	10.000
O-desmethyl-tramadol	2.774	5079520	8815.3	188.6	21571504	10.000
Olanzapine	4.266	110810	112.7	66.8	112739	10.000
Oxazepam	4.346	487786	175.7	74.5	3215308	10.000
Oxycodone	3.147	2024299	203.8	2538.4	9302439	10.000
Oxymorphone	2.435	1079939	310.1	142.3	6686315	10.000
Paroxetine	4.556	46268	40.9	3635.9	966831	10.000
Phenazepam	4.493	965343	245682.6	∞	9672760	10.000
Phencyclidine	3.951	2388897	376.2	188.4	2782217	10.000
Phentermine	3.023	28211	9.6	83.3	10105064	10.000
Phenytoin	3.935	180919	256.7	43.1	112739	10.000
Promethazine	4.790	900596	172.5	109.6	21571504	10.000
Pseudoephedrine	2.521	53321793	1154.1	1269.3	7265743	10.000
Quetiapine	4.737	2197068	398778.3	319844.8	29594486	10.000
Sertraline	4.773	185288	70.1	93.8	966831	10.000
Sufentanil	4.978	31463	15629.0	32.0	19310915	10.000
Tapentadol	3.386	2800674	4011.4	319.3	9302439	10.000
Temazepam	4.514	1784817	481.4	178.7	9672760	10.000
Tramadol	3.413	4956498	1140.4	38.3	21571504	10.000
Trazodone	4.904	1868324	319826.2	413868.4	8767560	10.000

am 25 cal1

BW

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.794	3570219	964.7	251.7	966831	10.000
Zaleplon	4.175	1155449	362.5	234.4	29594486	10.000
Zolpidem	4.405	5020805	4147.9	1036.8	29594486	10.000
Zopiclone	4.414	350371	98904.6	220.5	1800034	10.000

BW

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

Extraction Date: 9/10/2020 Analyst: Britany Wylie
Plate lot#: 200723 Plate Expiration: ~~/2020~~ 1-23-2021 BW

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.
☒ 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-OH not evaluated in urine samples~~ 9-15-20 BW

9/10 THCS

	1	2	3	4	5	6
A	IS + Cal. 1	neg blood	1748	urine ctrl B1		IS + QC_1
B	IS + Cal. 2	1650	1750	1691		IS + Cal. 7
C	IS + Cal. 3	1697	1774	1710 C1		IS + Cal. 6
D	IS + Cal. 4	BW 9/10/2020 1698 2	1775-2	1734 E1		IS + Cal. 5
E	IS + Cal. 5	1725	1780	1739-3 F1		IS + Cal. 4
F	IS + Cal. 6	1728	1783-1	1785 G1		IS + Cal. 3
G	IS + Cal. 7	1729	1783-2	1800 H1		IS + Cal. 2
H	IS + QC_1	1747-2	neg urine A1	1801 A2		IS + Cal. 1

All wells to contain 100 µl of residual DMSO

Case # Prefix:
C2020-

BW

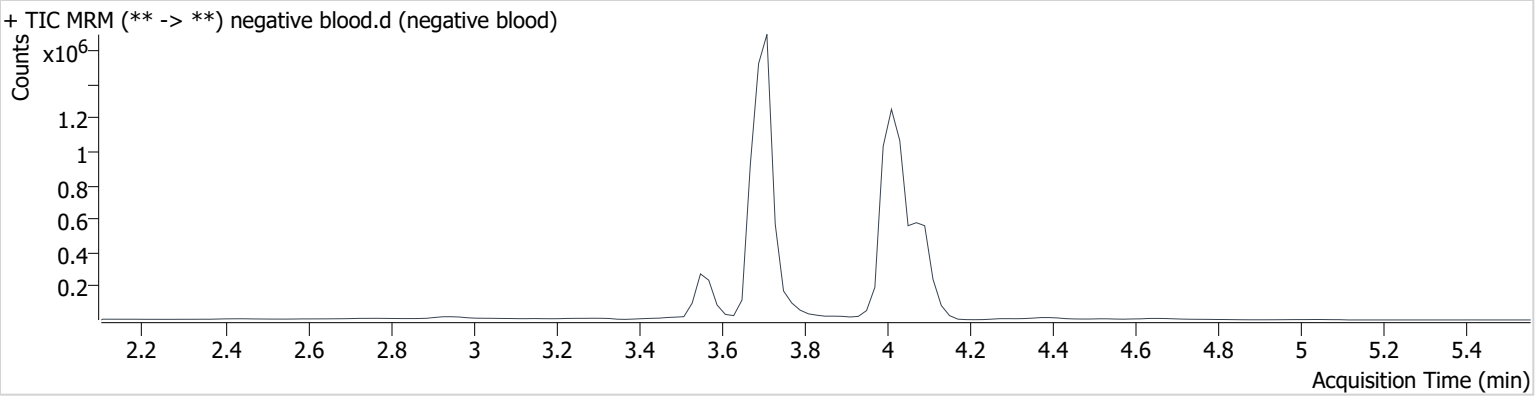
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 4:23:28 PM		
Sample Info.			

Sample Chromatogram



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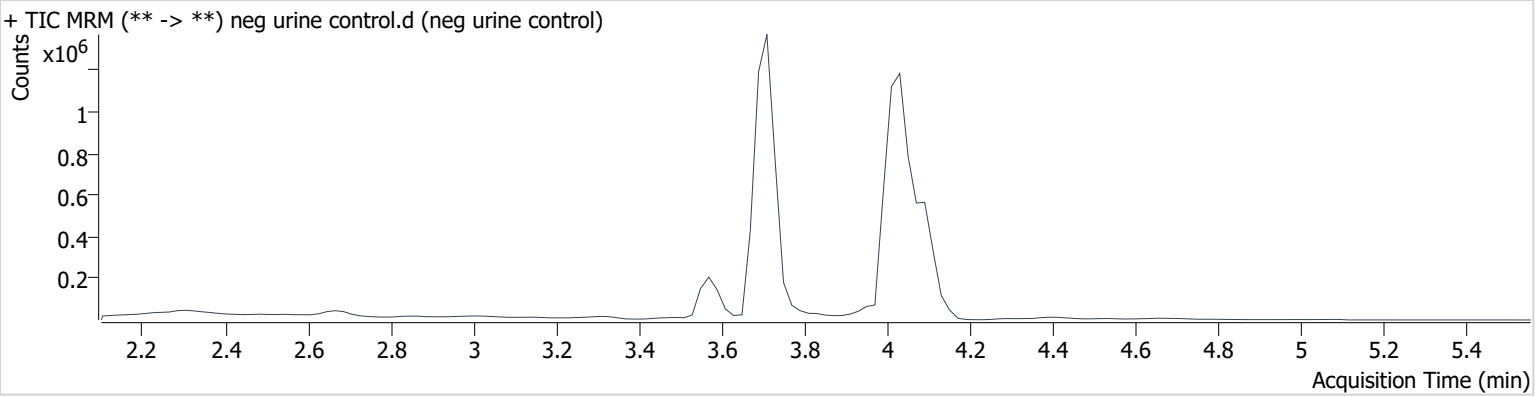
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	neg urine control.d
Type	Sample	**Sample**	neg urine control
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-H3	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 6:02:40 PM		
Sample Info.			

Sample Chromatogram



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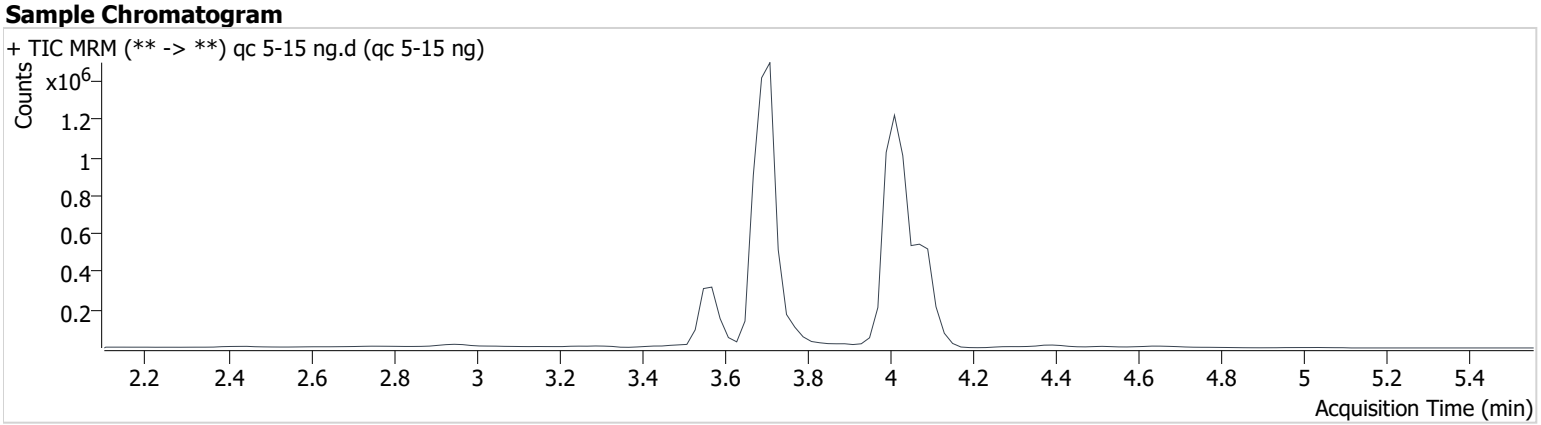
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 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**	Britany Wylie
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 4:16:50 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.104	50265	1284723	4.551	ng/ml
THC-COOH	3.569	246506	769597	15.263	ng/ml
THC-OH	3.719	50039	5279267	4.546	ng/ml

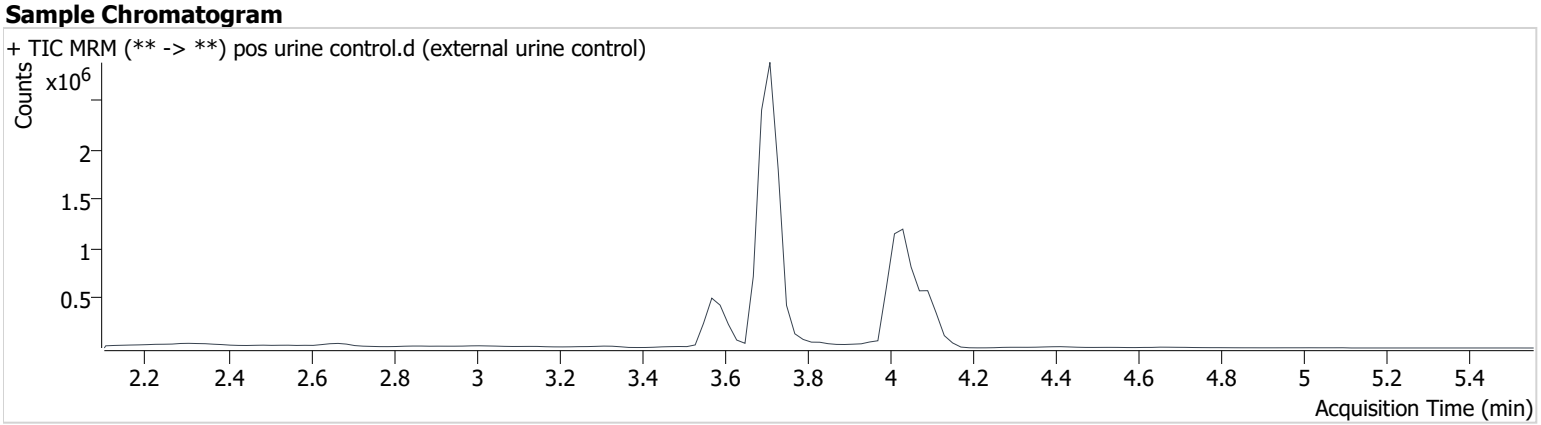
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	pos urine control.d
Type	Sample	**Sample**	external urine control
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-A4	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 6:09:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.104	154448	1141205	15.560	ng/ml
THC-COOH	3.589	646814	786230	40.282	ng/ml
THC-OH	3.719	500034	5818533	41.054	ng/ml

BW

Toxicology AM method 27/26 external prep information

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, 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 ()

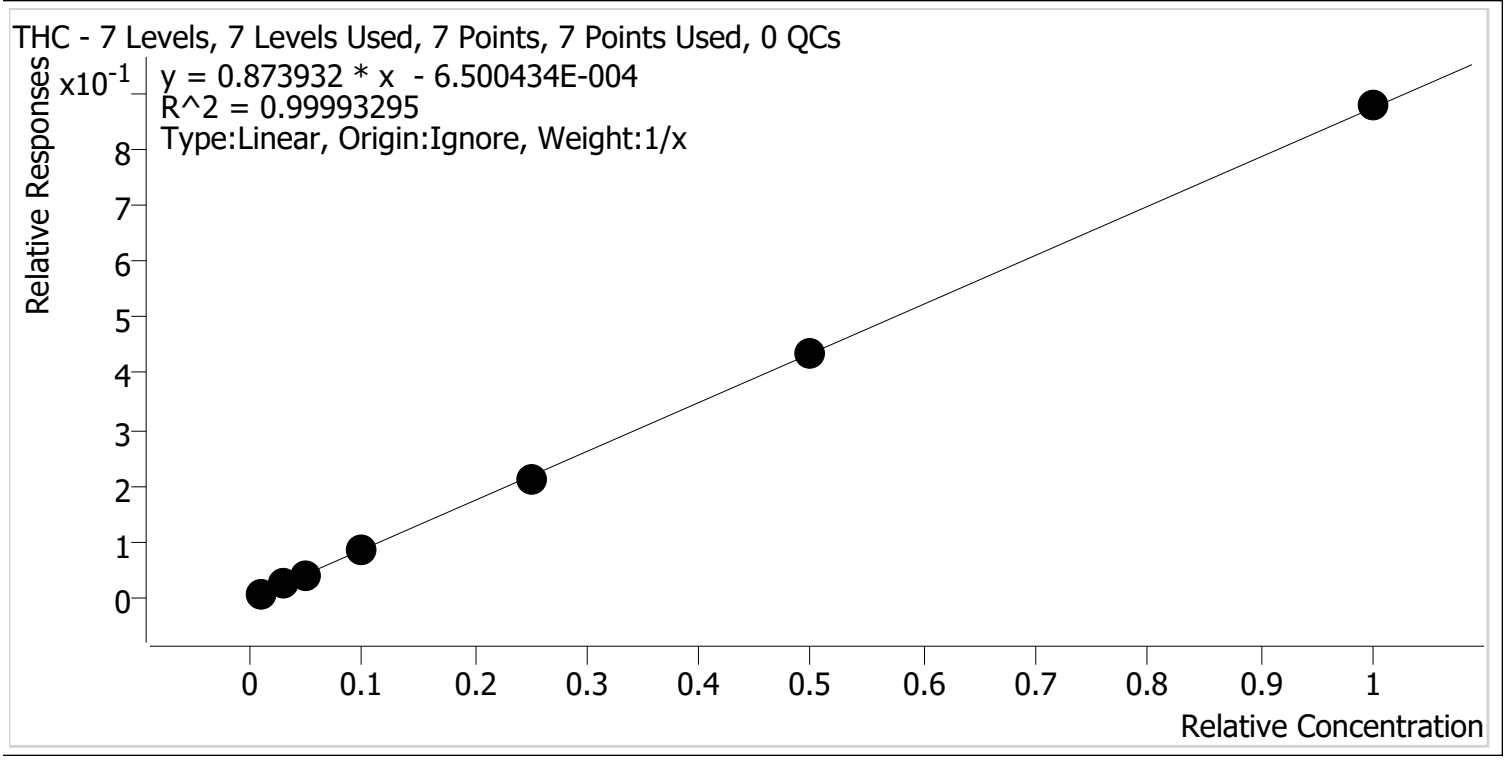
		Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	

AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine lot (73020) **out of use**

ppd 8/26/20 Exp 7/1/21	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

Compound Calibration Report

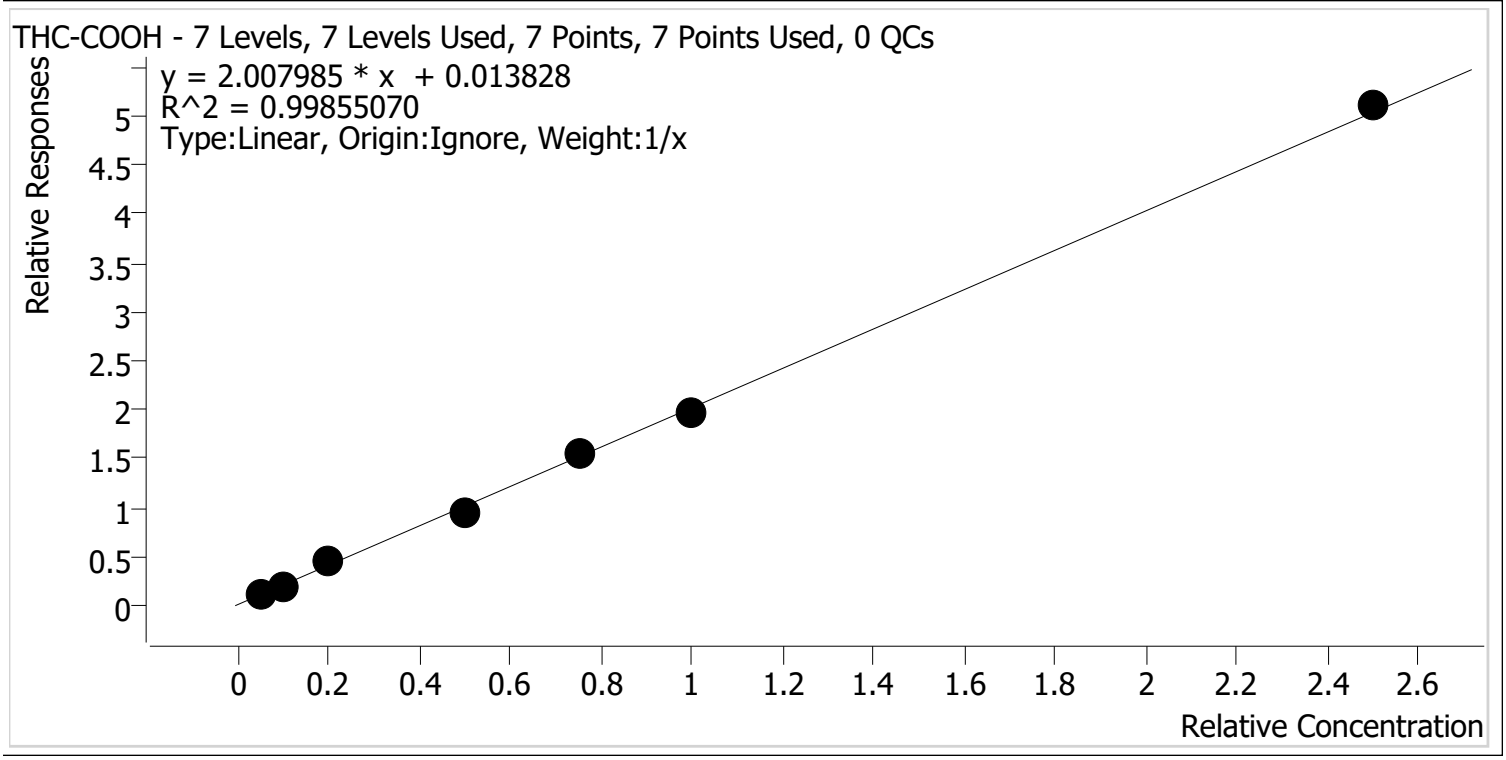
Batch results	D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Last Cal. Update	9/10/2020 7:22 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✔	1.0	1.0	103.8
cal 2	2	✔	3.0	3.0	98.4
cal 3	3	✔	5.0	5.0	100.1
cal 4	4	✔	10.0	9.9	98.5
cal 5	5	✔	25.0	24.7	98.6
cal-6	6	✔	50.0	50.0	100.1
cal-7	7	✔	100.0	100.4	100.4

Compound Calibration Report

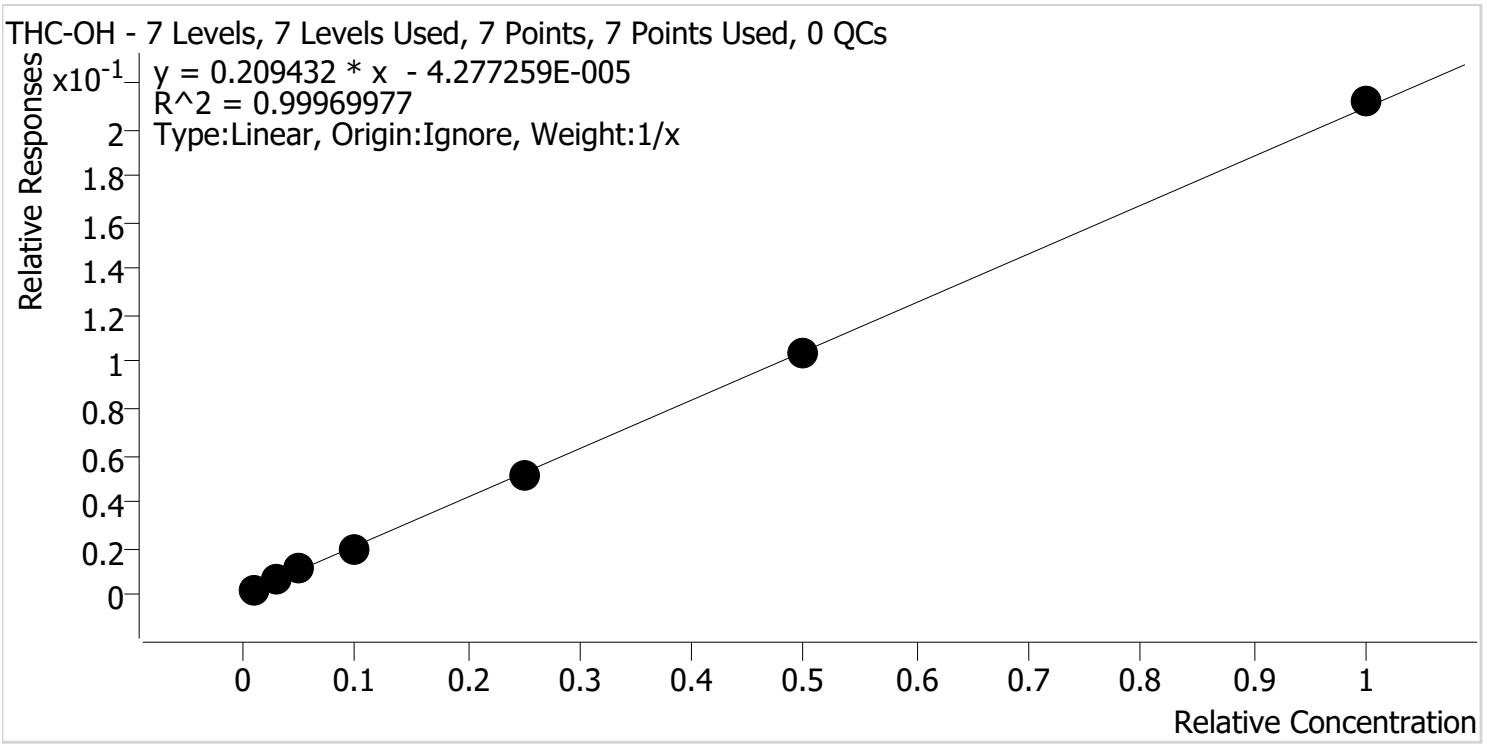
Batch results	D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Last Cal. Update	9/10/2020 7:22 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✔	5.0	5.4	108.2
cal 2	2	✔	10.0	9.1	90.5
cal 3	3	✔	20.0	21.4	107.1
cal 4	4	✔	50.0	46.7	93.3
cal 5	5	✔	75.0	76.2	101.6
cal-6	6	✔	100.0	97.8	97.8
cal-7	7	✔	250.0	253.4	101.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Last Cal. Update 9/10/2020 7:22 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✔	1.0	1.0	103.6
cal 2	2	✔	3.0	3.0	99.7
cal 3	3	✔	5.0	5.1	102.0
cal 4	4	✔	10.0	9.6	95.7
cal 5	5	✔	25.0	24.9	99.4
cal-6	6	✔	50.0	49.2	98.5
cal-7	7	✔	100.0	101.2	101.2

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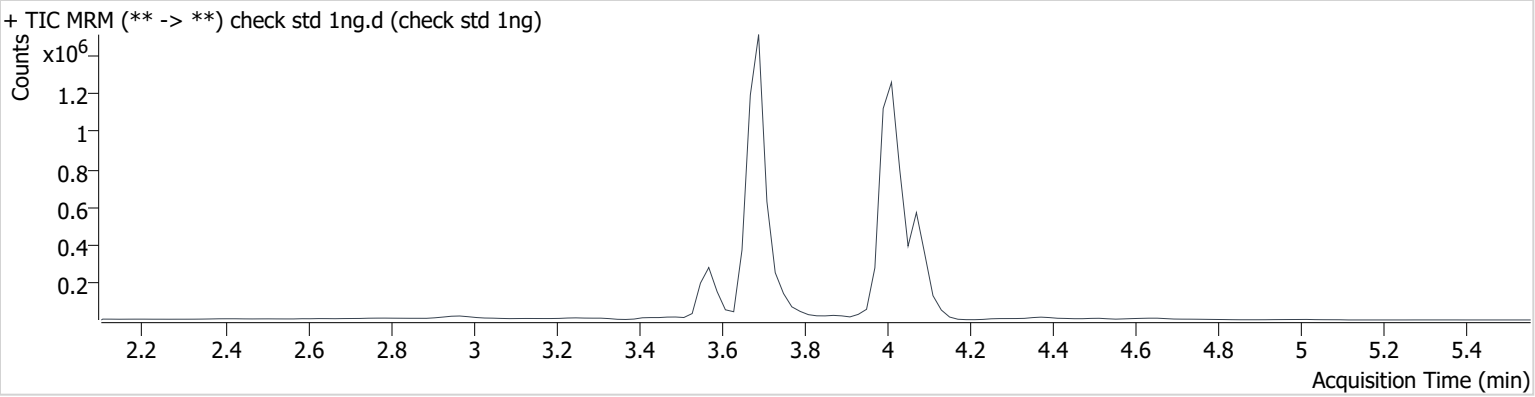
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	check std 1ng.d
Type	Cal	**Sample**	check std 1ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:23:57 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	4.084	9479	1125858	1.038	ng/ml	**Low**
THC-COOH	3.589	89887	734000	5.410	ng/ml	**Low**
THC-OH	3.699	10381	4882958	1.036	ng/ml	**Low**

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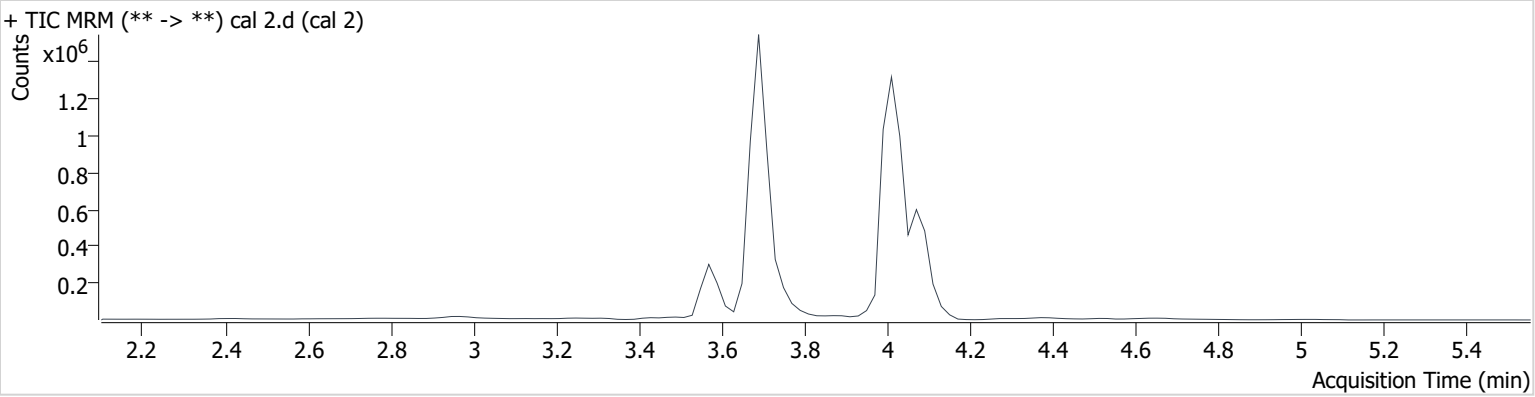
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:30:36 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	4.084	31136	1237861	2.953	ng/ml	**Low**
THC-COOH	3.589	143324	732649	9.054	ng/ml	**Low**
THC-OH	3.699	30107	4840806	2.990	ng/ml	**Low**

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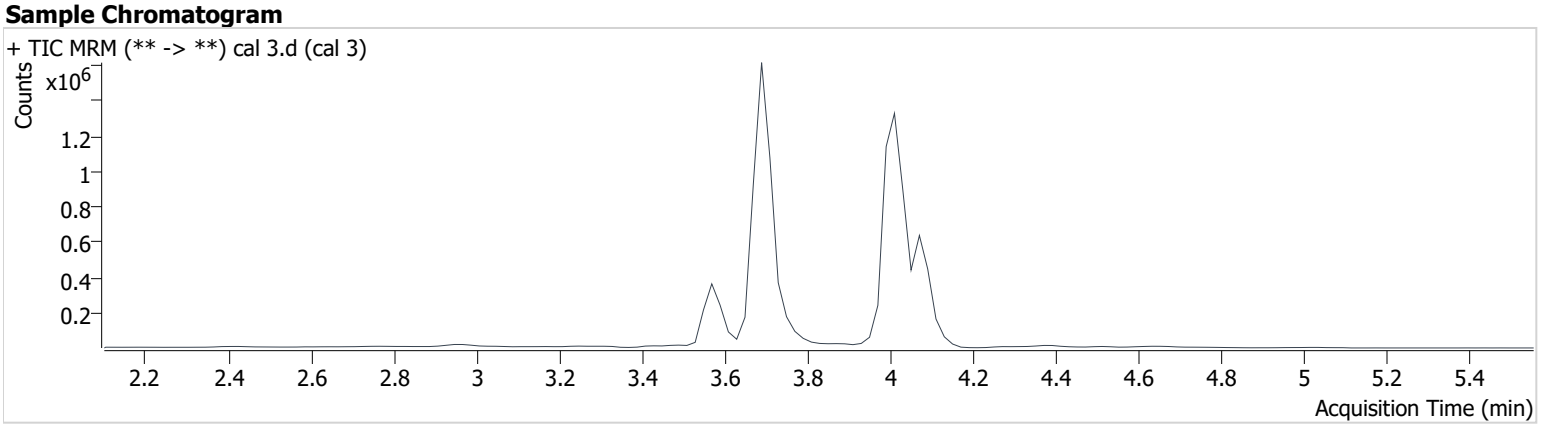
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:37:13 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.084	54675	1268561	5.006	ng/ml
THC-COOH	3.589	313409	705672	21.429	ng/ml
THC-OH	3.699	51947	4881968	5.101	ng/ml

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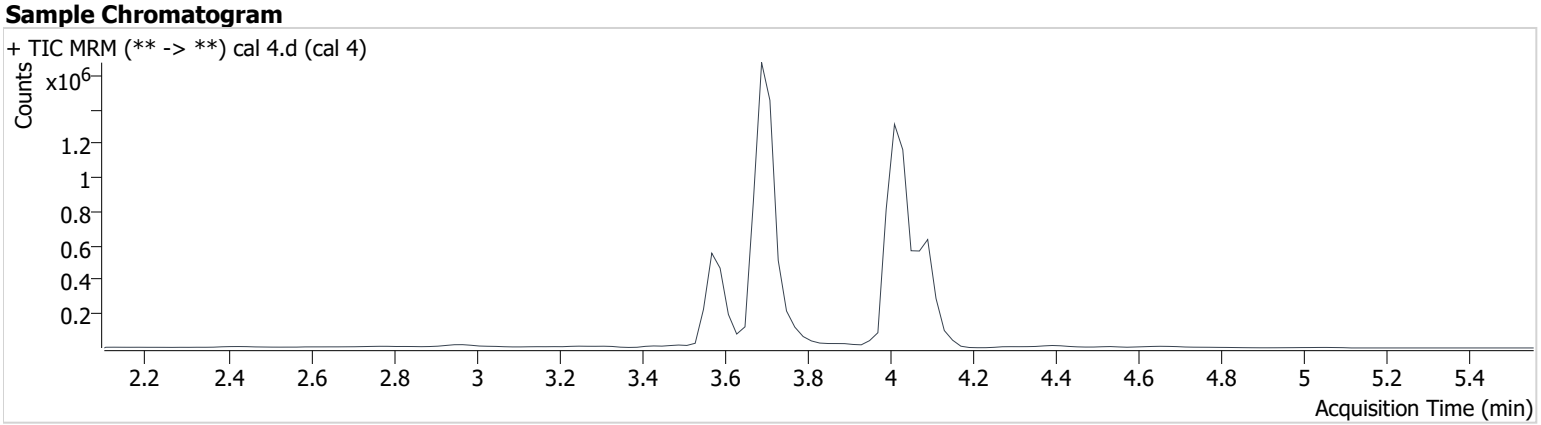
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:43:51 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.104	111966	1310507	9.851	ng/ml
THC-COOH	3.589	716196	753245	46.663	ng/ml
THC-OH	3.699	100316	5017889	9.566	ng/ml

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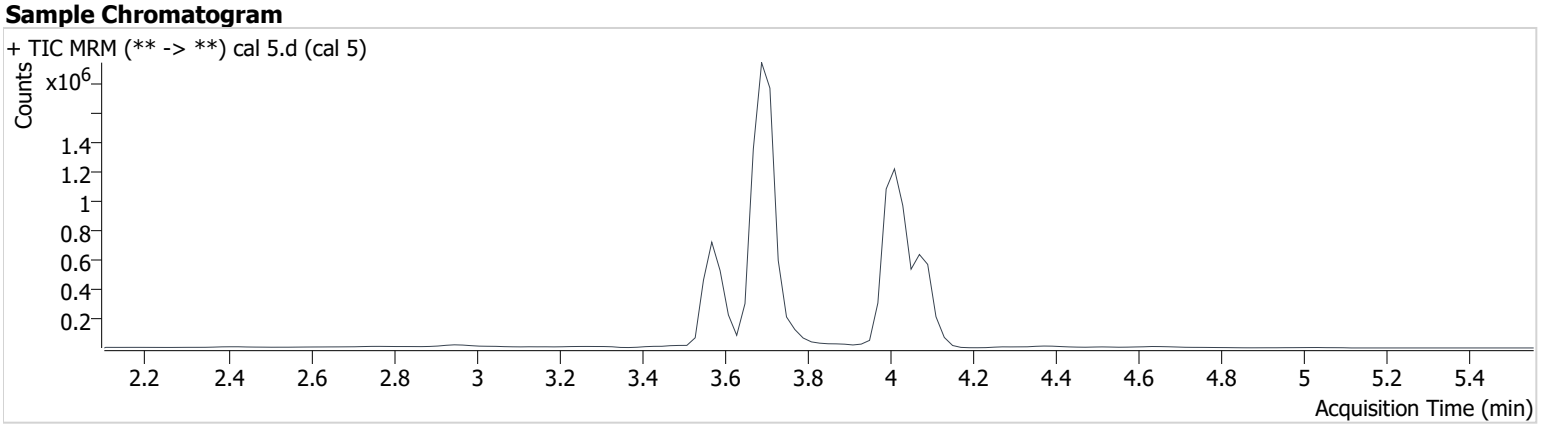
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal 5.d
Type	Cal	**Sample**	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:50:29 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	275960	1284351	24.660 ng/ml
THC-COOH	3.569	1163789	753849	76.194 ng/ml
THC-OH	3.699	271420	5219367	24.851 ng/ml

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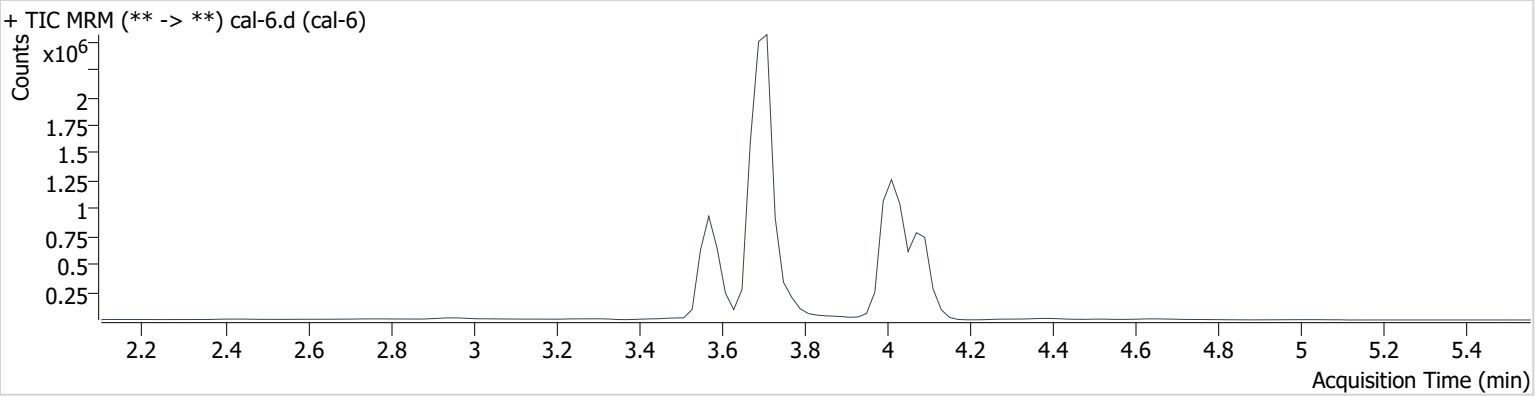
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 3:57:07 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	577369	1322079	50.045 ng/ml
THC-COOH	3.569	1533547	775240	97.826 ng/ml
THC-OH	3.719	547047	5307348	49.236 ng/ml

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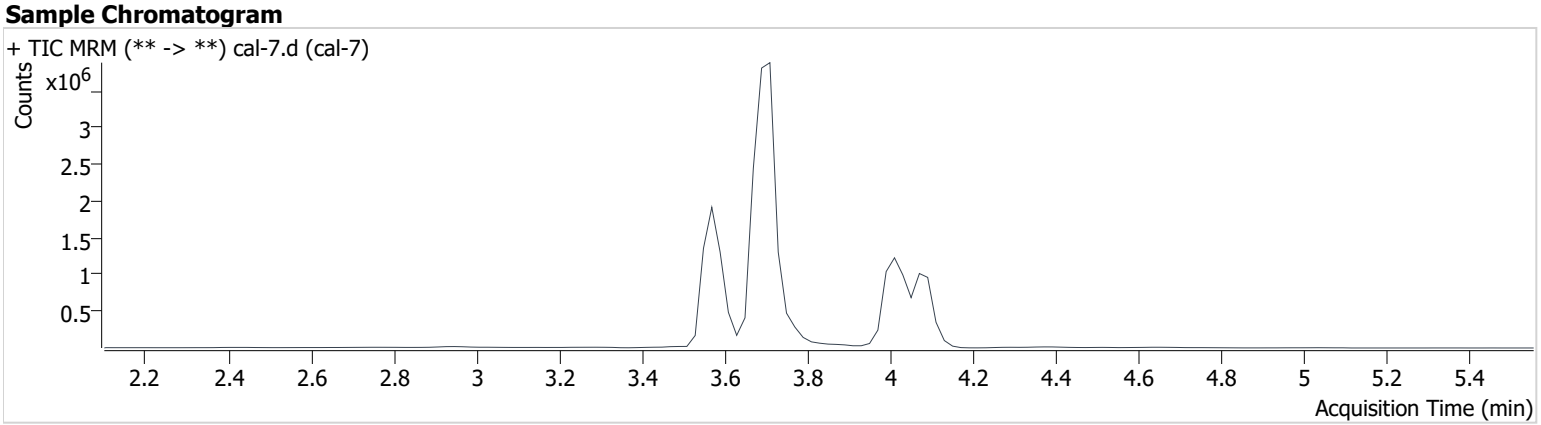
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 091020\QuantResults\thcs.batch.bin
Calibration Last Update 9/10/2020 7:22:25 PM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	9/10/2020 4:03:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	1184812	1350687	100.447 ng/ml
THC-COOH	3.569	3734964	731982	253.424 ng/ml
THC-OH	3.699	1130348	5333213	101.220 ng/ml