




















Worklist: 6295

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-0502	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0623	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0635	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0638	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0694	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0699	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0843	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0867	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0907	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0556	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0588	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0589	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0590	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0591	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0607	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0636	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0652	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0660	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0668	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0669	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0670	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6295

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2023-0684	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0685	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0688	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0715	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0864	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0864	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0864	3	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: 03/29/2023

Plate lot#: 220805

Mobile phase A: 10mM Amm Form

Blank Blood Lot: Lampire 23A52593

LCMS-QQQ ID: 069901

Analyst: Sarah Collins

Plate Retest Date: 02/05/2023 (External Control ran per method)

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Urine Lot: POC021022

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

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: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.**
- 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.
Pipette ID: #42
- 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.
Amount transferred: *300 uL*
- 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).
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add **900uL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. **If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).**
- 16. Reconstitute in **100µL 20% LC MeOH** 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 of 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

8C

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1									p2023-0669-1	p2023-0589-1	m2023-0638-1
B	IS + Cal. 1									p2023-0668-1	p2023-0588-1	m2023-0635-1
C										p2023-0660-1	p2023-0556-1	m2023-0623-1
D								p2023-0864-3	p2023-0715-1	p2023-0652-1	m2023-0907-1	m2023-0502-1
E								p2023-0864-2	p2023-0688-1	p2023-0636-1	m2023-0867-1	external blood
F								p2023-0864-1	p2023-0685-1	p2023-0607-1	m2023-0843-1	negative blood
G								external urine	p2023-0684-1	p2023-0591-1	m2023-0699-1	IS + Cal. 1
H								negative urine	p2023-0670-1	p2023-0590-1	m2023-0694-4	IS + Cal. 1

AM #25 Multi-Drug Screen Results

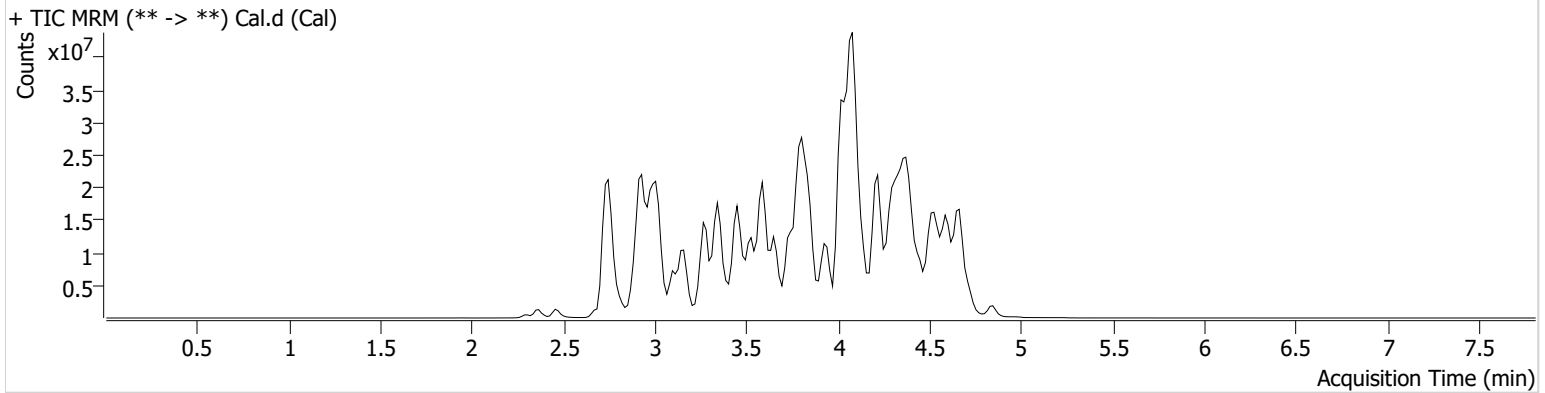
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 3/30/2023 11:20:37 AM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Sarah Collins
Sample Position	P6-G12	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2023 3:06:58 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.793	4599622	225.55	429.42	28484838	10.0000
6-MAM	2.911	86294	117.49	16.79	2197375	10.0000
7-aminoclonazepam	3.605	1392557	186.69	378.45	7409330	10.0000
7-aminoflunitrazepam	3.805	3015420	675.09	1629506.99	7409330	10.0000
9-Hydroxyrisperidone	3.844	12112064	7816.36	175003.97	41313911	10.0000
Acetyl Fentanyl	3.802	678229	734.41	283819.23	39127295	10.0000
Acetyl Norfentanyl	2.919	696485	1408.35	365.09	39127295	10.0000
a-hydroxyalprazolam	4.525	619698	195.89	125.61	7409330	10.0000
alpha-hydroxymidazolam	4.585	3804578	2564.17	757.54	7409330	10.0000
Alpha-PHP	3.809	5082784	54037.09	2128.24	39127295	10.0000
alpha-PVP	3.549	8428784	1116.71	488.96	14346256	10.0000
Alprazolam	4.620	4674072	763.71	441.92	34624714	10.0000
Amitriptyline	4.409	3669659	195.01	2538.23	11614602	10.0000
Amphetamine	2.923	6298152	1211.80	564.67	14346256	10.0000
Benzoylcegonine	3.405	449373	7277.41	438.84	619240	10.0000
Brompheniramine	4.033	209230	253.50	371776.41	53349787	10.0000
Buprenorphine	4.305	1042417	3378.96	115862.49	4050709	10.0000
Bupropion	3.748	6944666	914.26	588.33	27457520	10.0000
Carbamazepine	4.242	13031646	∞	2057.67	1003016	10.0000
Carisoprodol	4.225	3037411	658.49	491.99	12783338	10.0000
Chlordiazepoxide	4.729	3136460	583.78	749.88	34624714	10.0000
Chlorpheniramine	3.945	13431820	406.73	118.71	53349787	10.0000
Chlorpromazine	4.588	3805265	1845.64	729.57	18244114	10.0000
Citalopram	4.063	4508990	722.74	548.73	53349787	10.0000
Clomipramine	4.604	5220791	2360.06	4239.98	53349787	10.0000
Clonazepam	4.450	3596574	707.36	1492010.42	34624714	10.0000
Clonazolam	4.369	3079346	1705925.76	1245551.01	34624714	10.0000
Clozapine	4.201	9052053	2716.35	829.30	29880311	10.0000
Cocaehtylene	3.787	7545892	5018938.94	2684.11	36495581	10.0000
Cocaine	3.588	8809378	1525348.40	669552.16	36495581	10.0000
Codeine	2.808	693062	897.25	4633.74	13328803	10.0000
Cyclobenzaprine	4.332	6459567	2187.48	132.85	11614602	10.0000
Desipramine	4.363	10451834	832.63	1055.56	11614602	10.0000
Dextromethorphan	4.070	3023356	3133.12	602.66	14461894	10.0000

Cal

AM #25 Multi-Drug Screen Results

SC



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrophan	3.392	4597893	1278.90	134408.17	14461894	10.0000
Diazepam	4.853	2762188	491.68	1236.39	34624714	10.0000
Dihydrocodeine	2.761	1636883	668.71	418.09	13328803	10.0000
Diphenhydramine	4.024	15769420	24173.60	1453.81	53349787	10.0000
DMT	2.998	803734	1022.48	1219.16	14461894	10.0000
Doxepin	4.130	3982758	2975.36	323.53	31916184	10.0000
Doxylamine	3.652	17240841	201.46	9336494.77	14461894	10.0000
Duloxetine	4.314	168608	141336.43	3095.50	1853232	10.0000
EDDP	4.084	3172396	309.32	269.57	5331875	10.0000
Estazolam	4.529	9016410	727.59	790.28	34624714	10.0000
Etizolam	4.631	297815	120459.77	812695.24	34624714	10.0000
Fentanyl	4.031	502576	156.59	97405.57	27286705	10.0000
Flualprazolam	4.478	1894302	1058819.46	910275.49	34624714	10.0000
Flunitrazepam	4.558	6027054	862.45	334.33	34624714	10.0000
Fluorofentanyl	4.046	789101	2586.99	882.17	27286705	10.0000
Fluoxetine	4.328	5659834	1439.54	393.40	9643089	10.0000
Flurazepam	4.137	6151337	1871.11	166856.53	34624714	10.0000
Hydrocodone	2.991	2557025	1128.56	364.76	13328803	10.0000
Hydromorphone	2.460	2233469	8675.57	13570.48	300575	10.0000
Hydroxyzine	4.445	5923282	1602.11	1895.22	53349787	10.0000
Imipramine	4.377	12795529	1419.61	6422.86	11614602	10.0000
Ketamine	3.441	5536770	5189.73	286.93	19727561	10.0000
Lamotrigine	3.562	487416	1857.11	7952.00	53349787	10.0000
Levamisole	2.965	4169830	40750.99	773.11	36495581	10.0000
Levetiracetam	2.677	1406139	455.21	601.91	53349787	10.0000
Lorazepam	4.434	1216523	579.89	219.86	34624714	10.0000
Maprotiline	4.409	2880075	275.59	219.92	11614602	10.0000
MDA	3.028	6041606	1386.25	103.44	35751047	10.0000
MDEA	3.257	8215308	837.93	483.43	35751047	10.0000
MDMA	3.104	11637236	747.55	557.56	35751047	10.0000
Meperidine	3.608	3868280	3773.38	676.13	14461894	10.0000
Meprobamate	3.688	2367754	2457.39	315.99	12783338	10.0000
Methadone	4.389	13077760	∞	522.26	5331875	10.0000
Methamphetamine	3.030	17509175	18960.31	660.94	35751047	10.0000
Methocarbamol	3.609	518754	211.30	2872.78	5331875	10.0000
Methylphenidate	3.533	18065805	961.23	590.75	28021086	10.0000
Metoprolol	3.453	1458955	1732.76	1370.40	14461894	10.0000
Midazolam	4.710	1387491	1268.50	889.08	34624714	10.0000
Mirtazapine	3.792	4833687	87572.59	2093.59	14461894	10.0000
Mitragynine	4.137	964547	469235.85	1122705.75	14461894	10.0000
Morphine	2.293	369203	∞	641.08	300575	10.0000
Norbuprenorphine	3.829	169986	111157.44	234.08	4050709	10.0000
Nordiazepam	4.701	2665252	2479400.41	553.86	34624714	10.0000
Norfentanyl	3.348	13271632	57088.00	1296.33	39127295	10.0000
Norhydrocodone	2.947	178933	63.95	240.28	300575	10.0000
Norketamine	3.472	1387846	529.33	11019.59	19727561	10.0000
Normeperidine	3.610	3979755	15627.72	346.00	53349787	10.0000
Noroxycodone	2.914	2387186	∞	79.52	19727561	10.0000
Nortriptyline	4.410	3608023	1153.14	276.07	11614602	10.0000
O-desmethyl-tramadol	2.948	14569893	636.51	363.15	53349787	10.0000
O-desmethylvenlafaxine	3.284	3257581	1848.61	15503.74	14526685	10.0000
Olanzapine	3.726	1430960	448.17	844.80	1003016	10.0000
Oxazepam	4.515	5674636	926.24	355.30	24717072	10.0000
Oxycodone	2.927	5553031	1294.77	997.62	19727561	10.0000
Oxymorphone	2.365	2838804	511.68	11661350.60	300575	10.0000
Paroxetine	4.325	908114	168.92	405948.06	9643089	10.0000
Phenazepam	4.646	4073019	577.76	447.49	34624714	10.0000
Phencyclidine	3.917	9727160	777.71	777.68	14461894	10.0000
Phentermine	3.183	2795193	82.45	47.02	28021086	10.0000
Phenytion	4.133	1939119	11615.79	692.56	1003016	10.0000

Cal

AM #25 Multi-Drug Screen Results

SC



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Primidone	3.503	3283611	4489623.66	762.99	1003016	10.0000
Promethazine	4.299	13075509	52947.84	899.55	53349787	10.0000
Pseudoephedrine	2.754	61223664	19011.48	20131.49	35751047	10.0000
Quetiapine	4.337	7064189	1390.95	488206.23	43483135	10.0000
Risperidone	4.013	10789366	1875155.88	508.84	41313911	10.0000
Sertraline	4.544	2325265	560169.20	865.31	9643089	10.0000
Sufentanil	4.307	496453	165795.72	258.81	39127295	10.0000
Tapentadol	3.473	9584168	925.97	1091.47	19727561	10.0000
Temazepam	4.668	9050797	∞	126.79	34624714	10.0000
Topiramate	3.862	196102	140014.75	58126.73	638186	10.0000
Tramadol	3.453	27484227	1534.84	416.15	53349787	10.0000
Trazodone	4.323	9438396	1809759.29	1964091.18	31916184	10.0000
Venlafaxine	3.821	11613881	1315.67	688.81	9643089	10.0000
Zaleplon	4.344	5000858	1177.03	49239.10	43483135	10.0000
Zolpidem	4.097	13981778	2748319.31	1186.29	43483135	10.0000
Zopiclone	3.952	1830871	1276071.31	492176.95	7380736	10.0000



Idaho State Police Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ

And

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 042222)

100 μ L of 1mg/mL stock was added ^{of 4/4/23 SC} to each drug to 9700 μ L of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	215245	N/A
Tramadol	Cerilliant	FE10051901	12/31/2024
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Alprazolam	Cerilliant	FE06102008	06/30/2025
Buprenorphine	Cerilliant	FE03191903	06/31/2024
Prepared:	04/22/2022		
Expires:	04/22/2023		
Prepared By:	Celena Shrum		

Blood External Control Solution (Lot: WS042222)

200 μ L of methanol external control solution was added to 9800 μ L of blood.
Approximately 200 ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	22B52016-2
Methanol External Control Solution		042222
Prepared:	04/22/2022	
Expires:	04/22/2023	
Prepared by:	Celena Shrum	

AM #25 Multi-Drug Screen Results

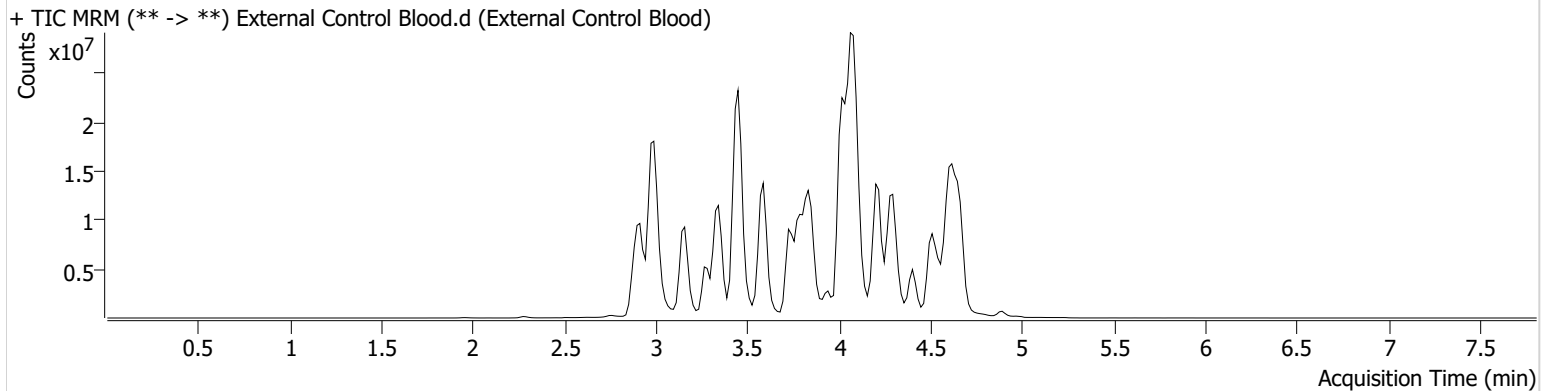
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 3/30/2023 11:20:37 AM

Instrument	Falco (069901)	Data File	External Control Blood.d
Type	Sample	Sample	External Control Blood
Acq. Method	AM 25 MDS.m	Operator	Sarah Collins
Sample Position	P6-E12	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2023 3:15:35 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.620	20024610	∞	629.40	36340976	40.8186
Buprenorphine	4.305	5997215	659207.28	413415.84	4271183	54.5621
Hydrocodone	2.991	8972985	45210.49	1496.08	14000532	33.4079
Tramadol	3.453	82532787	7600.45	306.82	55396590	28.9196

AM #25 Multi-Drug Screen Results

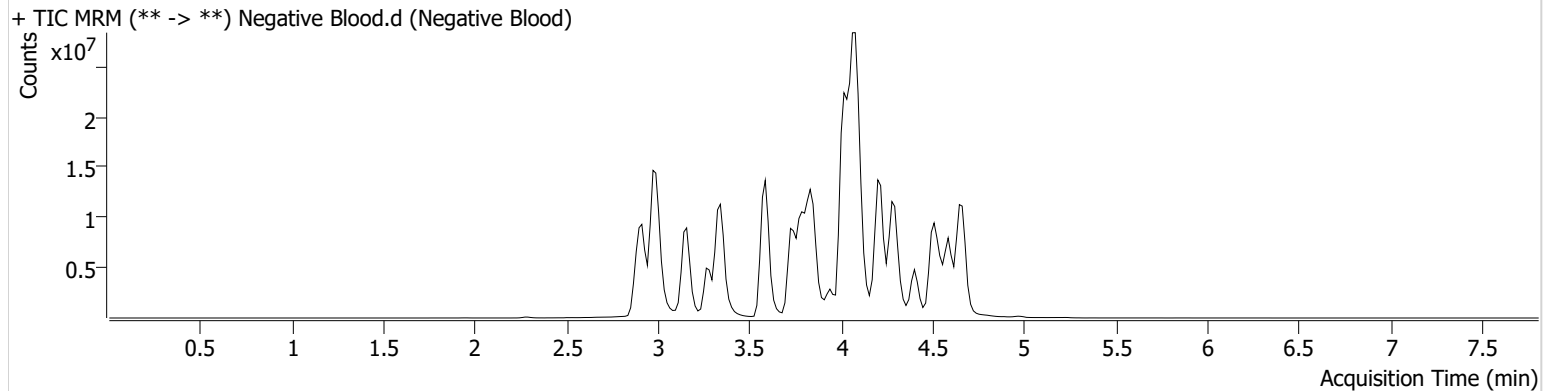
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Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 3/30/2023 11:20:37 AM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Sarah Collins
Sample Position	P6-F12	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2023 3:24:01 PM		
Sample Info.			

Sample Chromatogram



8C



Idaho State Police Forensic Services

AM #25 Urine Multi-Drug Screen by LCMS-QQQ

And

**AM #28 Urine Multi-Drug Confirmatory Analysis by
LCMS-QQQ---Panel 1**

Methanol External Control Solution (Lot: 042222)

100 μ L of 1mg/mL stock was added ^{of 4/4/23 SC} ~~to~~ each drug to ^{9601 4/14/23 SC} ~~9700~~ μ L of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	215245	N/A
Tramadol	Cerilliant	FE10051901	N/A- Qualitative
Hydrocodone	Cerilliant	FE04241902	N/A- Qualitative
Alprazolam	Cerilliant	FE06102008	N/A- Qualitative
Buprenorphine	Cerilliant	FE03191903	N/A- Qualitative
Prepared:	04/22/2022		
Prepared By:	Celena Shrum		

Urine External Control Solution (Lot: WS042222)

200 μ L of methanol external control solution was added to 9800 μ L of blood.
Approximately 200 ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC021022
Methanol External Control Solution		042222
Prepared:	04/22/2022	
Prepared by:	Celena Shrum	

AM #25 Multi-Drug Screen Results

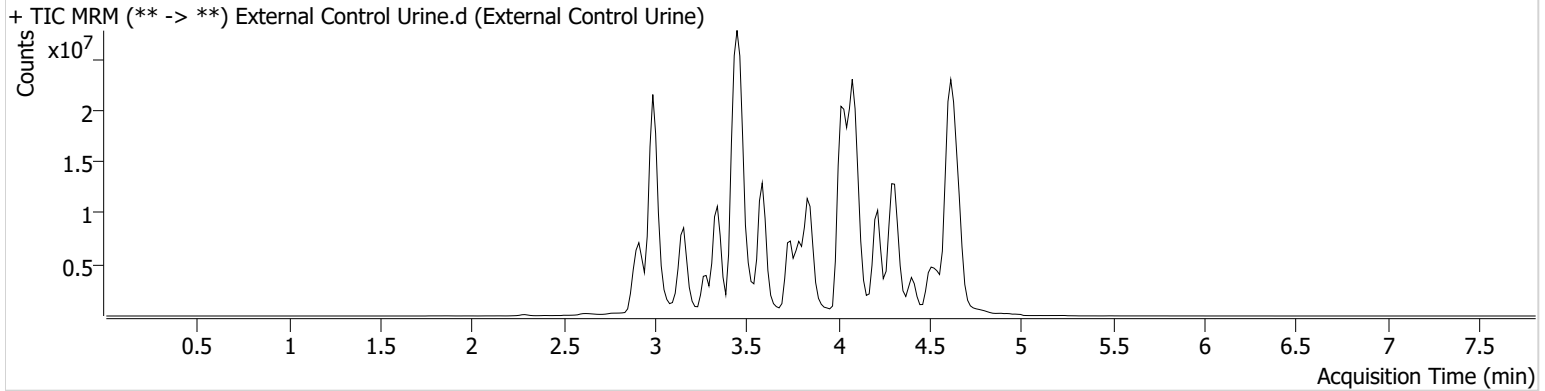
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 3/30/2023 11:20:37 AM

Instrument	Falco (069901)	Data File	External Control Urine.d
Type	Sample	Sample	External Control Urine
Acq. Method	AM 25 MDS.m	Operator	Sarah Collins
Sample Position	P6-G8	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2023 7:11:52 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.620	36466171	430.75	729.76	26218755	103.0312
Buprenorphine	4.305	14123665	278510.50	1087594.61	3391198	161.8393
Hydrocodone	2.991	22395204	117624.63	2868.79	9162482	127.4084
Tramadol	3.453	117888657	2582.86	166.93	51115828	44.7678

SC

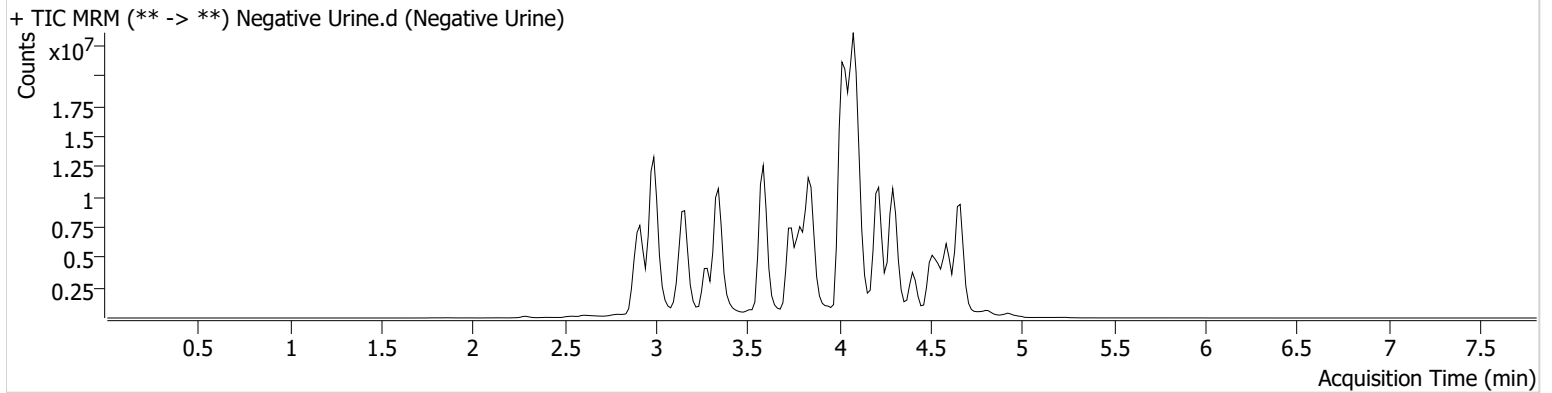
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 3/30/2023 11:20:37 AM

Instrument	Falco (069901)	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	AM 25 MDS.m	Operator	Sarah Collins
Sample Position	P6-H8	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2023 7:03:26 PM		
Sample Info.			

Sample Chromatogram



AM# 26: Screening of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 03/29/2023

Plate lot#: 220802

Mobile phase A: 10mM Amm Form in LCMS Water

Blank Blood Lot: Lampire 23A52593

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

Analyst: Sarah Collins

Plate Retest Date: 07/23/2023

Mobile phase B: 0.1% Formic acid in MeOH

Blank Urine Lot: POC021022

LCMS-QQQ ID: 069901

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 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
- 3. Using a calibrated pipette, pipette 1000µL blood or 1000µL hydrolyzed urine in wells of analytical (standards) plate. Pipette ID: #27
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Add 500µL of 0.1% formic acid in water to blood samples, and 500µL of saturated phosphate buffer to urine samples in the wells of the analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer 700-800µL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 800 uL
- 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*)
- 8. Wait 5 minutes.
- 9. Add 2.25mL MTBE. (*Add in 3 increments of 750uL*)
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*).
- 12. Add 2.25mL Hexane. (*Add in 3 increments of 750uL*)
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*).
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in 100µL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
- 2. Make any necessary integration changes, R² values ≥0.98 for each analyte
- 3. RT +/- 2% or 0.100 min, whichever is greater
- 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (analyst discretion between 5-10ng/mL) may be pursued.
- 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

80

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_2 urine	m2023-0635-1	p2023-0588-1	p2023-0668-1	p2023-0607-1
B	IS + Cal. 2	negative urine	m2023-0638-1	p2023-0589-1	p2023-0669-1	p2023-0652-1
C	IS + Cal. 3	p2023-0864-1	m2023-0694-4	p2023-0590-1	p2023-0670-1	p2023-0715-1
D	IS + Cal. 4	p2023-0864-2	m2023-0699-1	p2023-0591-1	p2023-0684-1	
E	IS + Cal. 5	p2023-0864-3	m2023-0843-1	p2023-0607-1*	p2023-0685-1	
F	IS + Cal. 6	negative blood	m2023-0867-1	p2023-0636-1	p2023-0688-1	
G	IS + Cal. 7	m2023-0502-1	m2023-0907-1*	p2023-0652-1*	p2023-0715-1*	
H	IS + QC_1 blood	m2023-0623-1	p2023-0556-1	p2023-0660-1	m2023-0907-1	

All wells to contain 100 µl of residual DMSO

*Samples moved during analytical step 6 due to blood clot

AM #26 Cannabinoids Screen Results

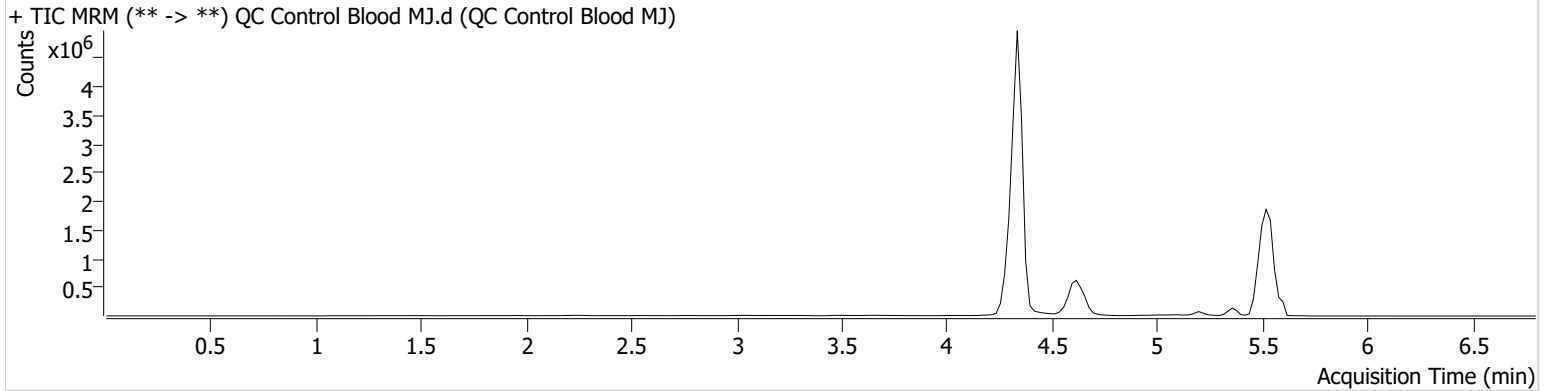
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	QC Control Blood MJ.d
Type	QC	Sample	QC Control Blood MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:33:23 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	8948	203252	5.3969 ng/ml
THC-COOH	4.636	429088	2129501	13.8093 ng/ml
THC-OH	4.342	140592	17396882	4.4301 ng/ml

AM #26 Cannabinoids Screen Results

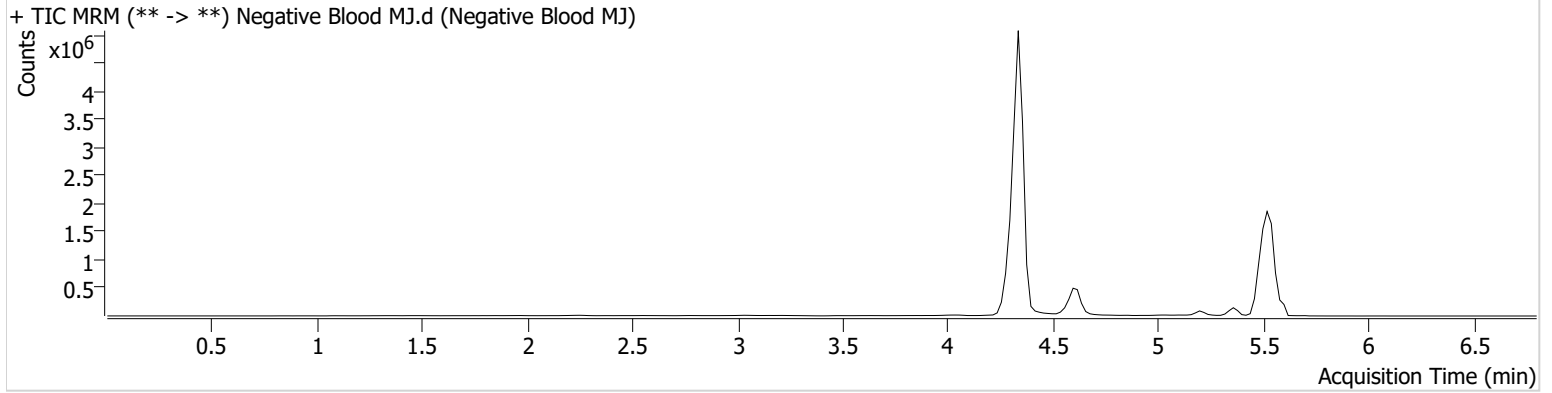
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Negative Blood MJ.d
Type	Sample	Sample	Negative Blood MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-F2	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:48:35 PM		
Sample Info.			

Sample Chromatogram



AM #26 Cannabinoids Screen Results

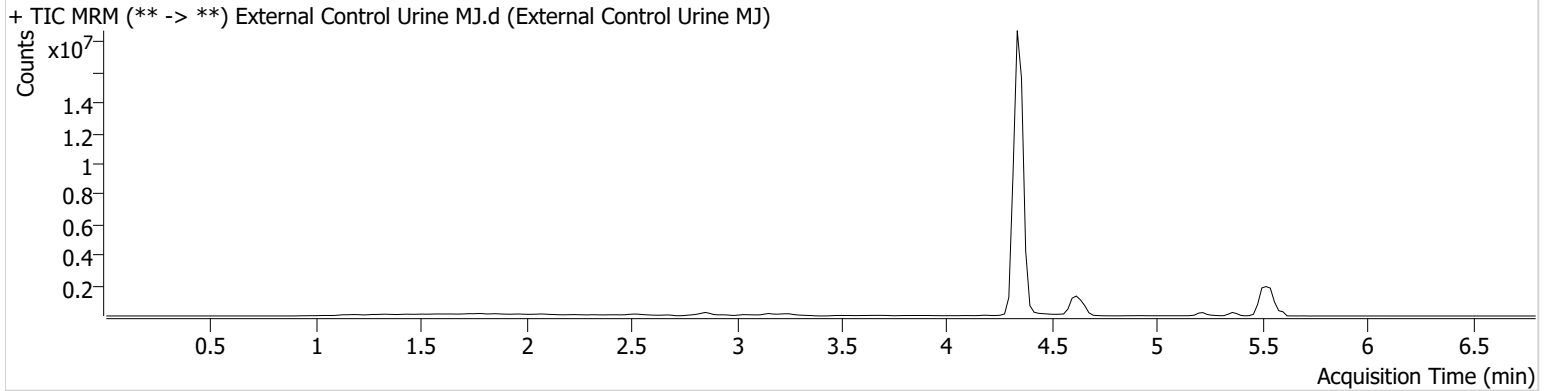
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	External Control Urine MJ.d
Type	Blank	Sample	External Control Urine MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-A2	Comment	This was an internal control that was ran (not external)
Injection Volume	10		
Acq. Date-Time	3/30/2023 1:13:10 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.469	3364	98931	4.2313 ng/ml
THC-COOH	4.636	785224	3893465	13.8227 ng/ml
THC-OH	4.362	454188	56248109	4.4265 ng/ml

AM #26 Cannabinoids Screen Results

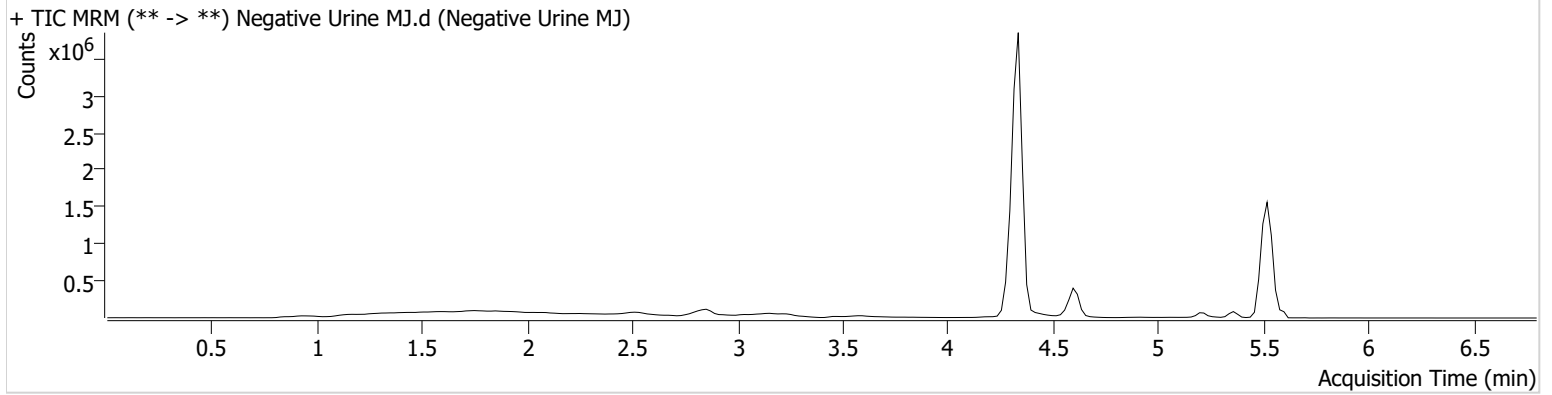
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Negative Urine MJ.d
Type	Sample	Sample	Negative Urine MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-B2	Comment	
Injection Volume	10		
Acq. Date-Time	3/30/2023 1:05:36 AM		
Sample Info.			

Sample Chromatogram

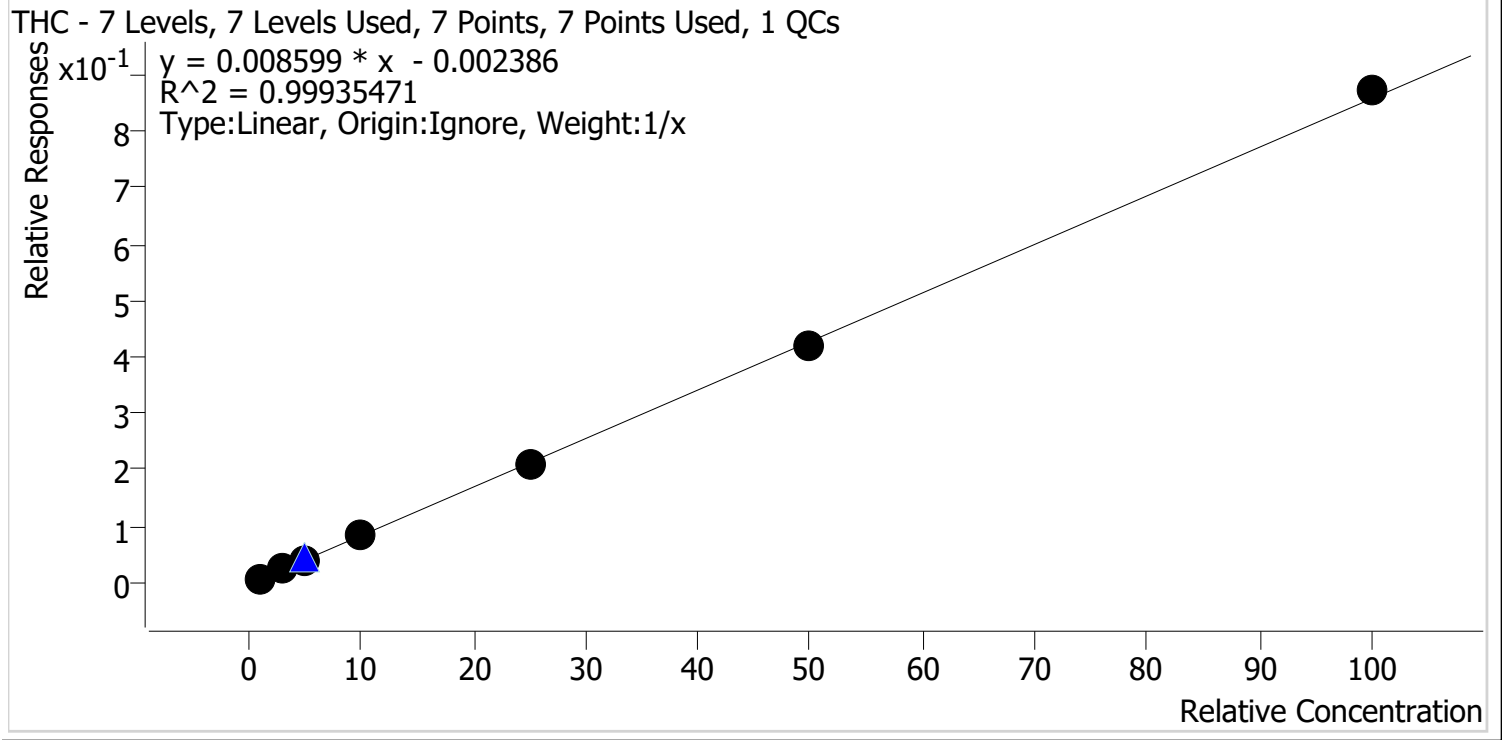


SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
 Last Cal. Update 3/30/2023 11:18 AM
 Analyst Name ISP\datastor
 Analyte THC Internal Standard THC-D3



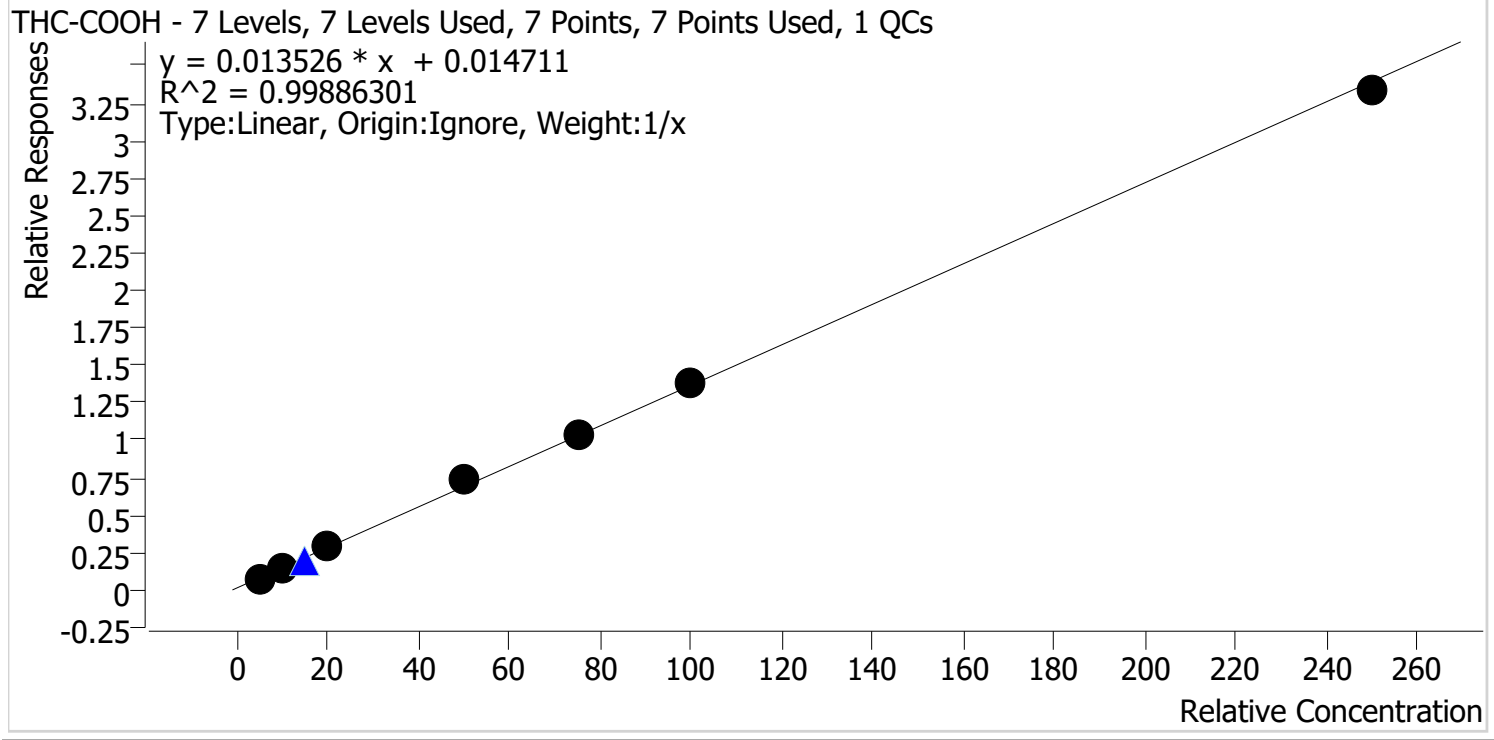
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.1	112.5
Cal 2 MJ	2	✓	3.0	3.0	98.6
Cal 3 MJ	3	✓	5.0	4.6	91.4
Cal 4 MJ	4	✓	10.0	10.0	99.8
Cal 5 MJ	5	✓	25.0	24.3	97.1
Cal 6 MJ	6	✓	50.0	49.4	98.9
Cal 7 MJ	7	✓	100.0	101.6	101.6

SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update 3/30/2023 11:18 AM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



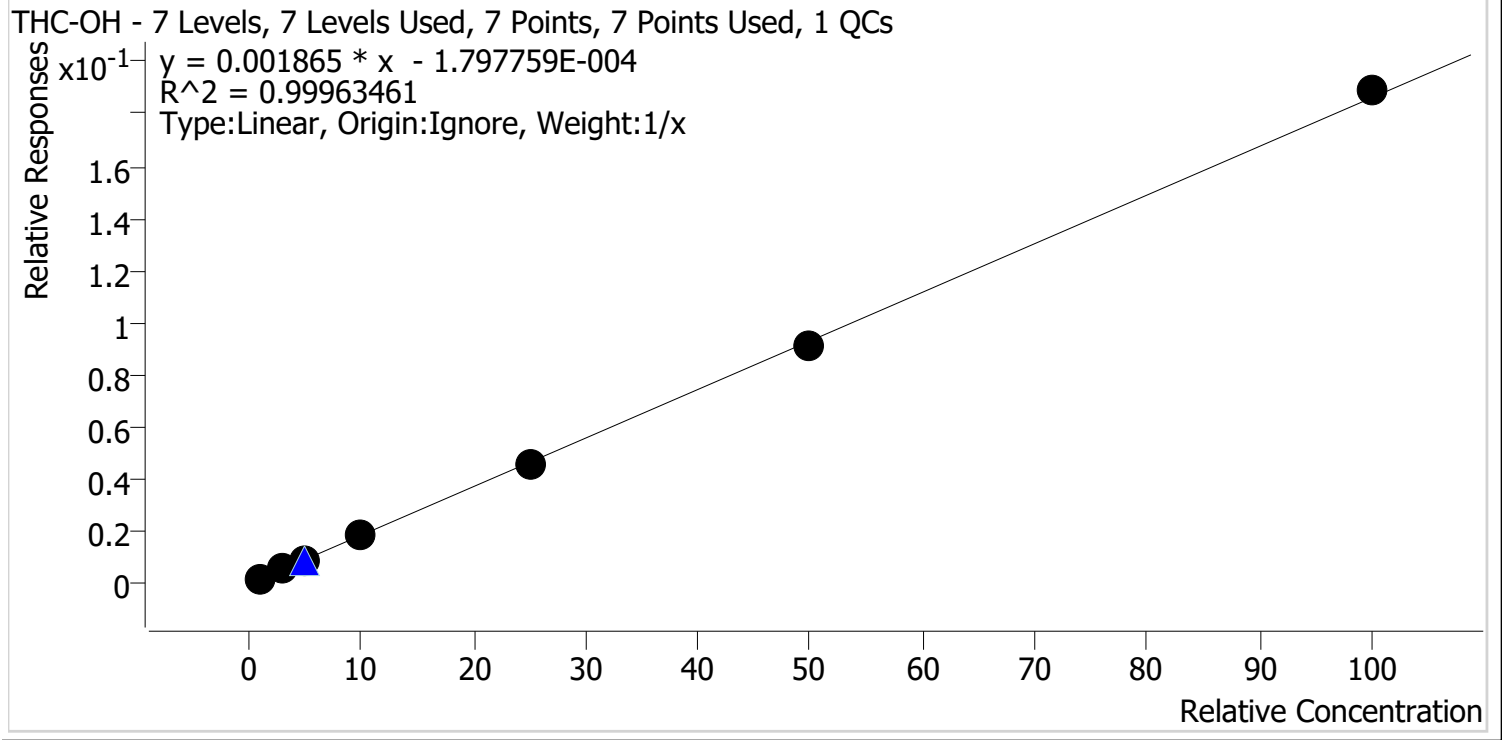
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	5.0	4.5	89.3
Cal 2 MJ	2	✓	10.0	10.0	100.0
Cal 3 MJ	3	✓	20.0	20.9	104.6
Cal 4 MJ	4	✓	50.0	53.6	107.1
Cal 5 MJ	5	✓	75.0	75.3	100.4
Cal 6 MJ	6	✓	100.0	100.3	100.3
Cal 7 MJ	7	✓	250.0	245.4	98.2

SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update 3/30/2023 11:18 AM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.1	106.8
Cal 2 MJ	2	✓	3.0	2.9	96.2
Cal 3 MJ	3	✓	5.0	4.9	98.3
Cal 4 MJ	4	✓	10.0	10.1	101.3
Cal 5 MJ	5	✓	25.0	24.5	97.8
Cal 6 MJ	6	✓	50.0	49.1	98.2
Cal 7 MJ	7	✓	100.0	101.4	101.4

AM #26 Cannabinoids Screen Results

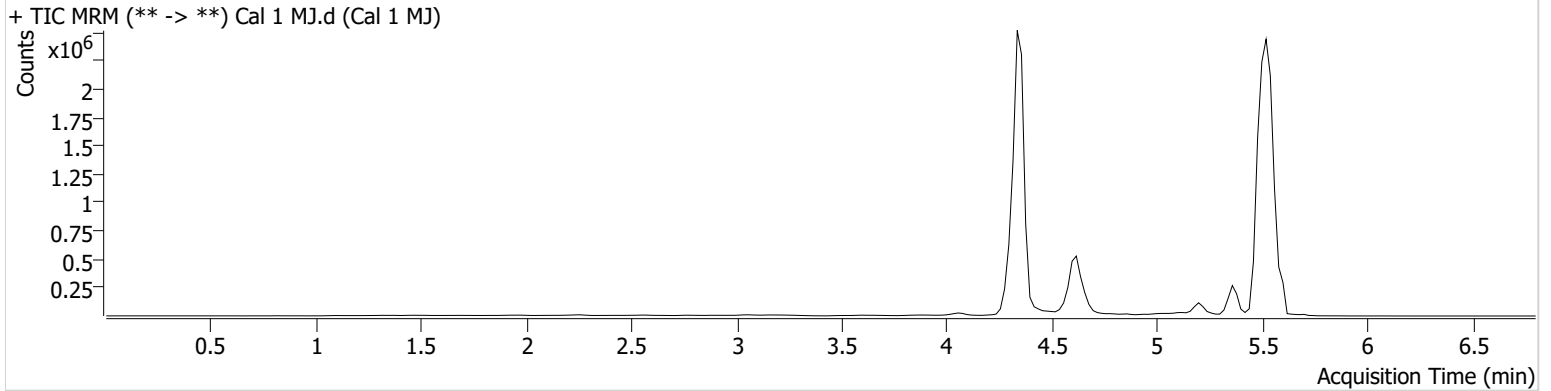
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 1 MJ.d
Type	Cal	Sample	Cal 1 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 8:40:13 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.550	3602	494256	1.1250 ng/ml	Low
THC-COOH	4.656	153081	2037844	4.4661 ng/ml	Low
THC-OH	4.362	17176	9484478	1.0675 ng/ml	Low

AM #26 Cannabinoids Screen Results

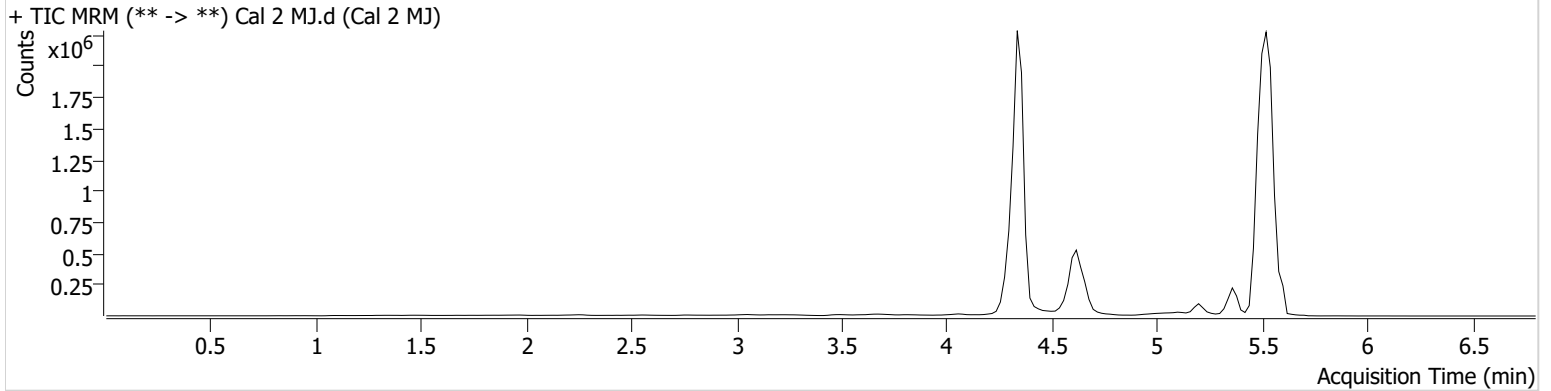
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 2 MJ.d
Type	Cal	Sample	Cal 2 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 8:47:57 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.550	13158	570541	2.9594 ng/ml	Low
THC-COOH	4.656	286179	1907518	10.0041 ng/ml	
THC-OH	4.362	44085	8473442	2.8863 ng/ml	Low

AM #26 Cannabinoids Screen Results

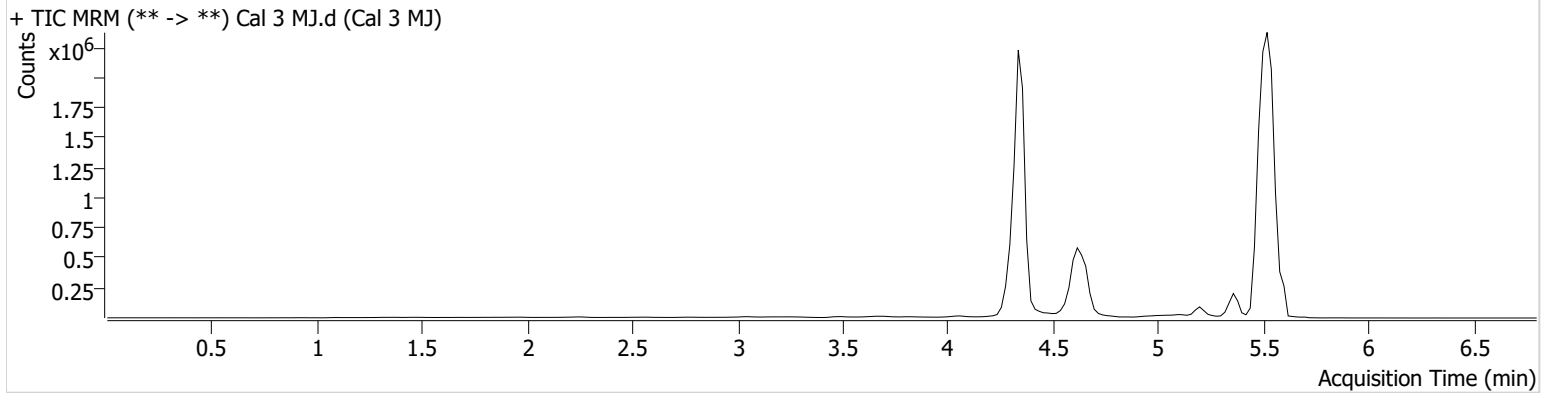
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 3 MJ.d
Type	Cal	Sample	Cal 3 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 8:55:32 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	16412	444854	4.5677 ng/ml
THC-COOH	4.656	535078	1797206	20.9238 ng/ml
THC-OH	4.362	70704	7870156	4.9139 ng/ml

AM #26 Cannabinoids Screen Results

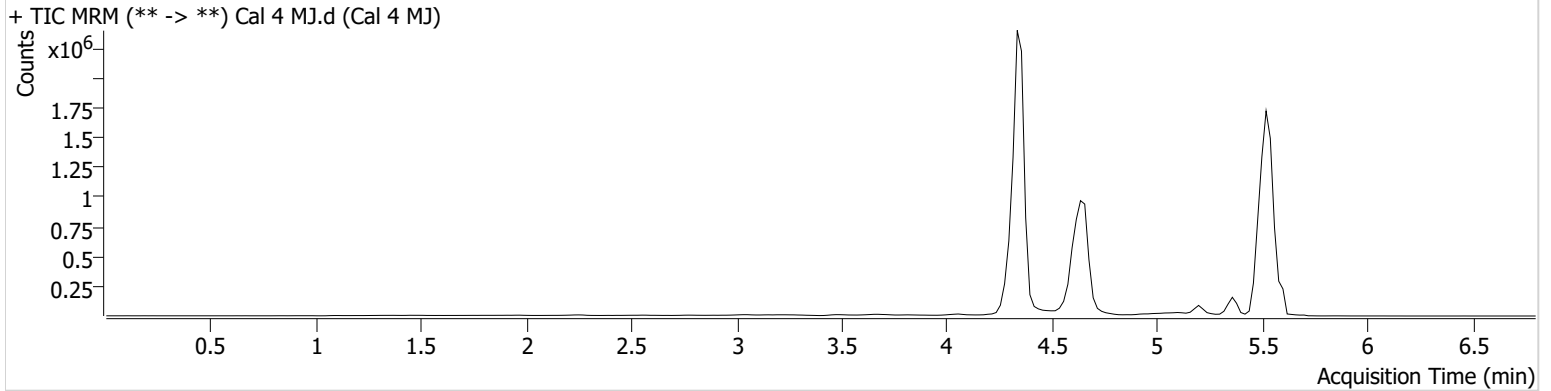
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 4 MJ.d
Type	Cal	Sample	Cal 4 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:03:06 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	26923	322597	9.9824 ng/ml
THC-COOH	4.656	1315535	1779294	53.5740 ng/ml
THC-OH	4.362	151849	8117369	10.1278 ng/ml

AM #26 Cannabinoids Screen Results

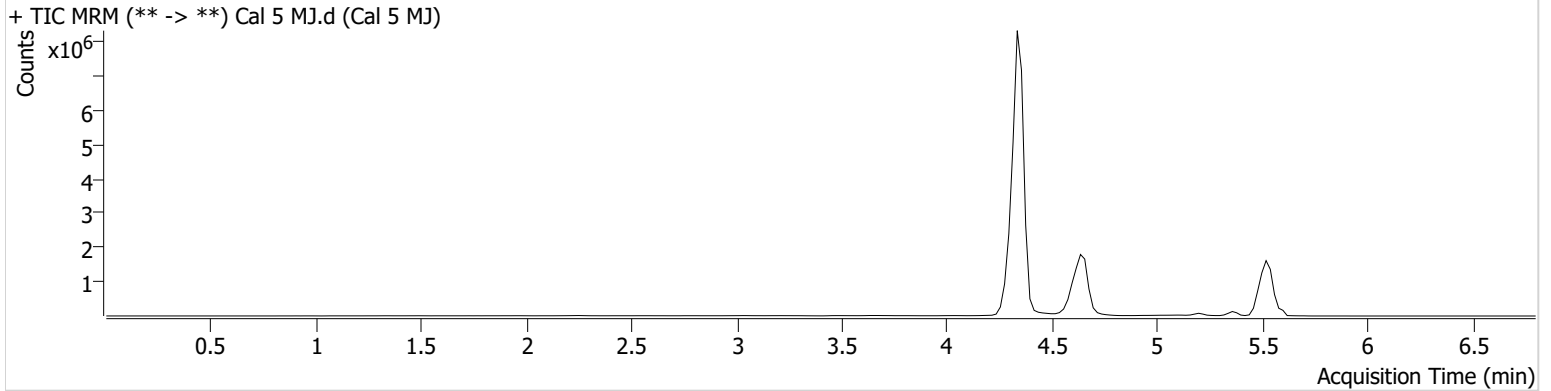
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 5 MJ.d
Type	Cal	Sample	Cal 5 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:10:41 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	57924	280564	24.2861 ng/ml
THC-COOH	4.636	2549994	2467290	75.3218 ng/ml
THC-OH	4.362	1070802	23573907	24.4545 ng/ml

AM #26 Cannabinoids Screen Results

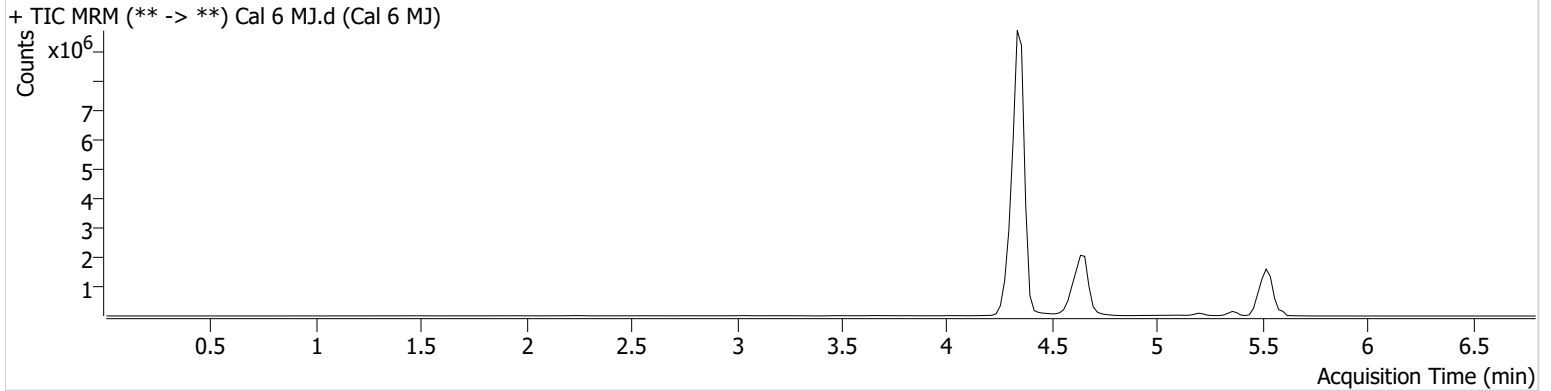
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 6 MJ.d
Type	Cal	Sample	Cal 6 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:18:15 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	138941	328600	49.4477 ng/ml
THC-COOH	4.656	3201468	2335341	100.2631 ng/ml
THC-OH	4.362	2060920	22547690	49.1109 ng/ml

AM #26 Cannabinoids Screen Results

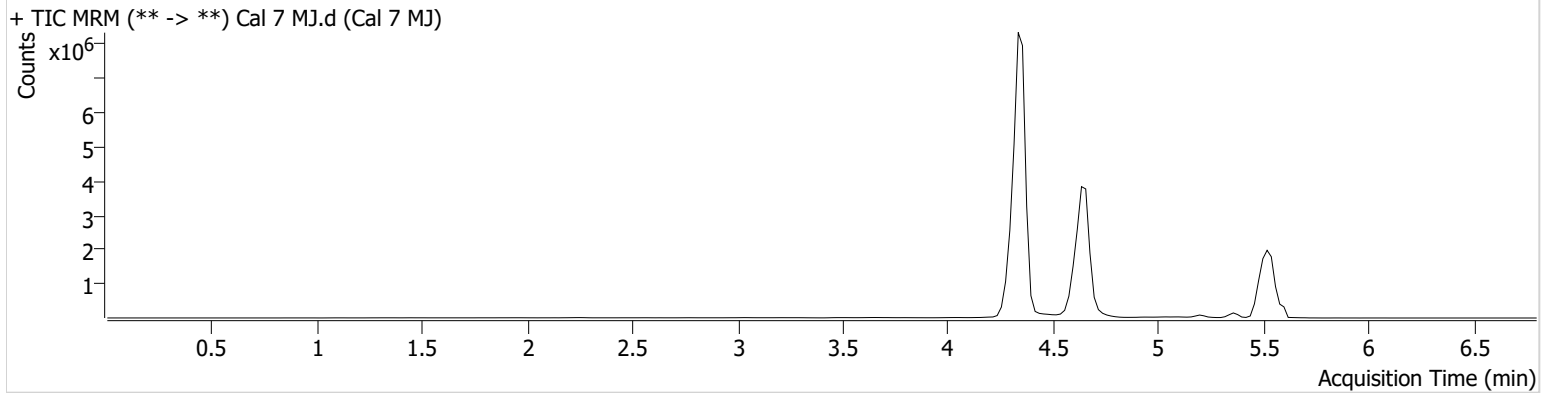
SC



Batch results D:\MassHunter\Data\2023\AM 25 26\032923 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 3/30/2023 11:18:53 AM

Instrument	Falco (069901)	Data File	Cal 7 MJ.d
Type	Cal	Sample	Cal 7 MJ
Acq. Method	AM 26 THC.m	Operator	Sarah Collins
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	3/29/2023 9:25:49 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	143105	164192	101.6316 ng/ml
THC-COOH	4.636	6389463	1916081	245.4472 ng/ml
THC-OH	4.362	2501170	13234807	101.4389 ng/ml

8C



Idaho State Police Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ

And

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 042222)

100 µL of 1mg/mL stock was added to each drug to 9600 µL of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	215245	N/A
Tramadol	Cerilliant	FE10051901	12/31/2024
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Alprazolam	Cerilliant	FE06102008	06/30/2025
Buprenorphine	Cerilliant	FE03191903	06/31/2024
Prepared:	04/22/2022		
Expires:	04/22/2023		
Prepared By:	Celena Shrum		

Blood External Control Solution (Lot: WS101322)

50 µL of methanol external control solution was added to 9950 µL of blood.

Approximately 50 ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	22B52015-1
Methanol External Control Solution		042222
Prepared:	10/13/2022	
Expires:	04/22/2023	
Prepared by:	Celena Shrum	