

Worklist: 6286

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-0326	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2023-0406	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2023-0695	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2023-0991	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-0991	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2023-1204	6	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0250	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0331	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0392	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0534	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0536	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0543	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0580	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0598	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0611	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0703	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0732	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0812	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0870	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0870	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2023-0870	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

Worklist: 6286

TS

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2023-0920	1	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: 03/28/2023

Analyst: Tamara Salazar

Plate lot#: 220805

Plate Retest Date: 2-15-23 – ok with external control

Mobile phase A: 10mM Amm Form in LCMS Water

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Blood Lot: Lampire 23A52593

Blank Urine Lot: POC021022

LCMS-QQQ ID: 069901

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 or 250µL hydrolyzed urine in 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: 300uL
- 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.
- 16. Add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying. This step is required for urine samples, but optional for blood samples.
- 17. 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:

TS

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0812-1	M2023-0326-3	P2023-0536-1
B	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0580-1	Urine Neg	P2023-0534-1
C	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0392-1	External Urine	P2023-0331-2
D	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0250-1	P2023-0732-1	M2023-0991-1
E	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0920-1	M2023-1204-6	P2023-0703-1	Blood External
F	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0870-3	M2023-0991-3	P2023-0611-1	Neg Blood
G	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0870-2	M2023-0695-2	P2023-0598-1	IS + Cal. 1
H	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-0870-1	M2023-0406-2	P2023-0543-1	IS + Cal. 1

All wells to contain 60 µl of residual DMSO

TS

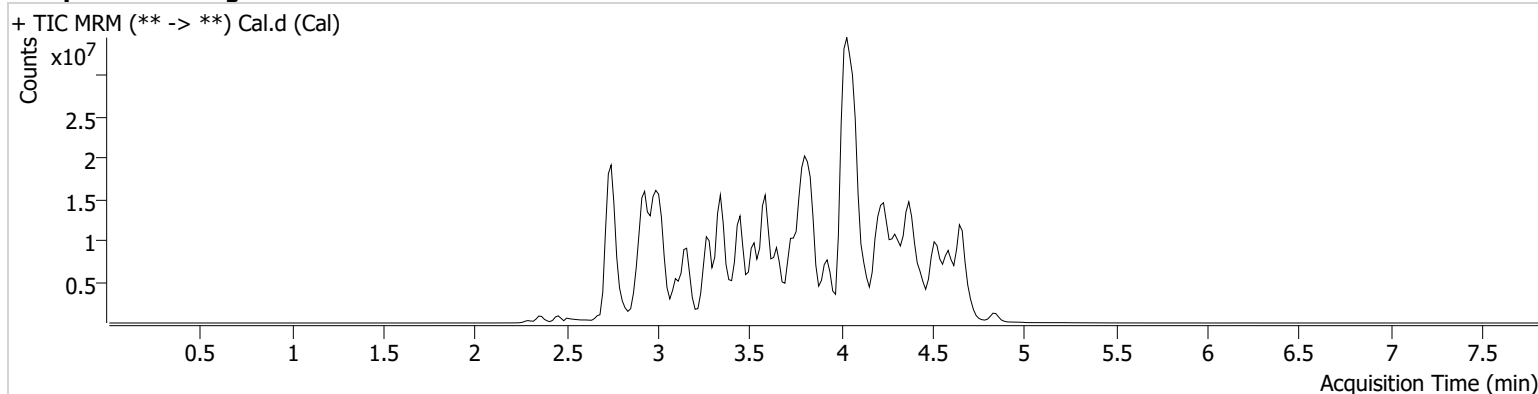


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/31/2023 4:21:24 PM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P2-H12	Comment	
Injection Volume	5		
Acq. Date-Time	3/28/2023 5:09:58 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.793	3437776	145.14	1613.17	20993265	10.0000
6-MAM	2.895	64390	17103.79	18904.48	1767787	10.0000
7-aminoclonazepam	3.605	865742	290.53	302.15	4319346	10.0000
7-aminoflunitrazepam	3.805	1790340	339.24	167.94	4319346	10.0000
9-Hydroxyrisperidone	3.828	8394988	961.08	104239.64	33569768	10.0000
Acetyl Fentanyl	3.786	522535	330.86	89350.07	34883824	10.0000
Acetyl Norfentanyl	2.919	587954	4239.68	345.68	34883824	10.0000
a-hydroxyalprazolam	4.510	396297	83.03	242.88	4319346	10.0000
alpha-hydroxymidazolam	4.585	2354876	1059.47	244558.62	4319346	10.0000
Alpha-PHP	3.809	4168071	31198.86	6407.16	34883824	10.0000
alpha-PVP	3.533	6532217	970.32	333.04	11396140	10.0000
Alprazolam	4.620	3114541	3259.81	691.45	23675219	10.0000
Amitriptyline	4.409	2251908	495.99	352.54	7331621	10.0000
Amphetamine	2.923	4600863	1547.72	2866.89	11396140	10.0000
Benzoyllecgonine	3.405	272496	146.39	59.64	367808	10.0000
Brompheniramine	4.033	136331	1022.31	747.36	45928492	10.0000
Buprenorphine	4.243	851389	155853.93	68069.52	3211696	10.0000
Bupropion	3.748	4940875	899.78	1424.99	20732991	10.0000
Carbamazepine	4.242	7438827	658.67	823.17	397785	10.0000
Carisoprodol	4.225	1729033	19735.60	339.69	7376638	10.0000
Chlordiazepoxide	4.714	554183	250.29	712.16	23675219	10.0000
Chlorpheniramine	3.945	9403817	440.90	137.21	45928492	10.0000
Chlorpromazine	4.588	2047432	556.88	731.76	9211695	10.0000
Citalopram	4.063	3574364	517.09	326.68	45928492	10.0000
Clomipramine	4.604	2759840	15295.69	3471.91	45928492	10.0000
Clonazepam	4.450	1880060	6553.14	426.18	23675219	10.0000
Clonazolam	4.369	1867709	1998.18	752.98	23675219	10.0000
Clozapine	4.201	5210992	1642.17	2633.17	17733485	10.0000
Cocaehtylene	3.787	5100239	158364.01	1574.79	28951058	10.0000
Cocaine	3.588	5942025	4356027.87	16536.13	28951058	10.0000
Codeine	2.793	443843	594295.15	6427.48	8890108	10.0000
Cyclobenzaprine	4.332	3211029	10036.95	86.17	7331621	10.0000
Desipramine	4.363	6416794	1786.14	608.31	7331621	10.0000
Dextromethorphan	4.070	2158511	663.44	407.42	9810470	10.0000

Cal

TS



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrophan	3.392	3245823	42144.64	634.48	9810470	10.0000
Diazepam	4.838	1798994	1267.74	1797.33	23675219	10.0000
Dihydrocodeine	2.761	984607	692.28	269.05	8890108	10.0000
Diphenhydramine	4.024	9483594	1492.24	380.79	45928492	10.0000
DMT	2.998	669536	1582.73	1666.12	9810470	10.0000
Doxepin	4.130	2725634	535.56	190.21	20785815	10.0000
Doxylamine	3.652	12692979	707.56	34510.24	9810470	10.0000
Duloxetine	4.314	75759	6443.34	12276.46	1010453	10.0000
EDDP	4.084	2306113	1905.75	228.22	3707170	10.0000
Estazolam	4.529	5986024	646.61	2725.05	23675219	10.0000
Etizolam	4.631	324002	126504.56	985011.14	23675219	10.0000
Fentanyl	4.016	349345	157.05	63412.97	20145212	10.0000
Flualprazolam	4.478	1288861	734749.02	2482.22	23675219	10.0000
Flunitrazepam	4.558	3587377	488.55	507.81	23675219	10.0000
Fluorofentanyl	4.046	504842	249.07	612.77	20145212	10.0000
Fluoxetine	4.313	3254121	1936.43	144.19	3414973	10.0000
Flurazepam	4.122	3874414	25552.19	429.06	23675219	10.0000
Hydrocodone	2.991	1609989	1935.79	397.21	8890108	10.0000
Hydromorphone	2.460	1375214	62006.56	54228.37	85424	10.0000
Hydroxyzine	4.430	3712041	808.66	619.42	45928492	10.0000
Imipramine	4.377	8801750	11892.97	2180.91	7331621	10.0000
Ketamine	3.410	3962546	40.12	128.95	12028309	10.0000
Lamotrigine	3.562	362097	1823.54	417.64	45928492	10.0000
Levamisole	2.950	2829302	7841.47	412.72	28951058	10.0000
Levetiracetam	2.692	946567	449.98	1184.45	45928492	10.0000
Lorazepam	4.434	697304	1060.25	242.49	23675219	10.0000
Maprotiline	4.409	1749610	305.17	136.74	7331621	10.0000
MDA	3.028	4295697	1584.78	15.16	30809096	10.0000
MDEA	3.257	5818549	580.71	439.10	30809096	10.0000
MDMA	3.104	8122072	1113.81	453.89	30809096	10.0000
Meperidine	3.608	2607884	1569.88	337.04	9810470	10.0000
Meprobamate	3.688	1569236	9203.79	174.91	7376638	10.0000
Methadone	4.389	7491302	768.50	477.10	3707170	10.0000
Methamphetamine	3.030	12485372	8715.46	428.67	30809096	10.0000
Methocarbamol	3.609	427861	53.49	181.40	3707170	10.0000
Methylphenidate	3.533	14406047	1005.54	66.98	23975837	10.0000
Metoprolol	3.453	1171159	589.62	154.48	9810470	10.0000
Midazolam	4.694	919940	407.15	313470.82	23675219	10.0000
Mirtazapine	3.761	4028960	8616.18	17997.09	9810470	10.0000
Mitragynine	4.137	650489	290104.10	719056.20	9810470	10.0000
Morphine	2.293	219522	3055.60	792.05	85424	10.0000
Norbuprenorphine	3.829	131672	114560.54	68997.42	3211696	10.0000
Nordiazepam	4.701	1948504	768.85	279.78	23675219	10.0000
Norfentanyl	3.348	10470427	15019.32	1344.62	34883824	10.0000
Norhydrocodone	2.947	122649	155.21	20856.42	85424	10.0000
Norketamine	3.442	946240	279.93	5751.17	12028309	10.0000
Normeperidine	3.626	3157828	537.41	506.76	45928492	10.0000
Noroxycodone	2.914	1450891	∞	237.86	12028309	10.0000
Nortriptyline	4.395	1564127	698.54	265.69	7331621	10.0000
O-desmethyl-tramadol	2.948	11374081	766.73	870.08	45928492	10.0000
O-desmethylvenlafaxine	3.284	2064957	438.48	7812.70	8904813	10.0000
Olanzapine	3.711	1981967	1673.39	4651.13	397785	10.0000
Oxazepam	4.515	3174567	572.67	389.01	15221661	10.0000
Oxycodone	2.927	3153680	991.75	600.17	12028309	10.0000
Oxymorphone	2.350	1789489	650.93	7965.97	85424	10.0000
Paroxetine	4.325	498051	454.30	34502.61	3414973	10.0000
Phenazepam	4.646	2851954	724.78	441771.16	23675219	10.0000
Phencyclidine	3.917	7507629	512.59	431.48	9810470	10.0000
Phentermine	3.183	2337588	82.22	39.48	23975837	10.0000
Phenytol	4.133	706430	495.16	190.86	397785	10.0000

Cal

TS

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Primidone	3.503	1622787	8679367.50	305.78	397785	10.0000
Promethazine	4.299	9926636	2112.82	1633.94	45928492	10.0000
Pseudoephedrine	2.754	54517705	3502.08	35048.17	30809096	10.0000
Quetiapine	4.307	4399017	1616.96	1415.58	34611058	10.0000
Risperidone	4.013	6605638	1886059.18	292.36	33569768	10.0000
Sertraline	4.544	857105	166202.70	681.98	3414973	10.0000
Sufentanil	4.291	275217	2212.03	407.20	34883824	10.0000
Tapentadol	3.473	7231928	745.96	281.31	12028309	10.0000
Temazepam	4.668	5550553	854.88	1190.52	23675219	10.0000
Topiramate	3.862	92218	98487.92	28491.95	431271	10.0000
Tramadol	3.453	21433161	∞	71.68	45928492	10.0000
Trazodone	4.276	6080805	1321059.20	1375396.45	20785815	10.0000
Venlafaxine	3.821	9589119	10817.48	330.85	3414973	10.0000
Zaleplon	4.344	3097093	1866.38	922.91	34611058	10.0000
Zolpidem	4.050	8187992	1911.84	19204.72	34611058	10.0000
Zopiclone	3.906	909803	171420.16	1994.42	3969521	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 each drug to 9600 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: WS101322)

50 μ L of methanol external control solution was added to 9950 μ L 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	

TS

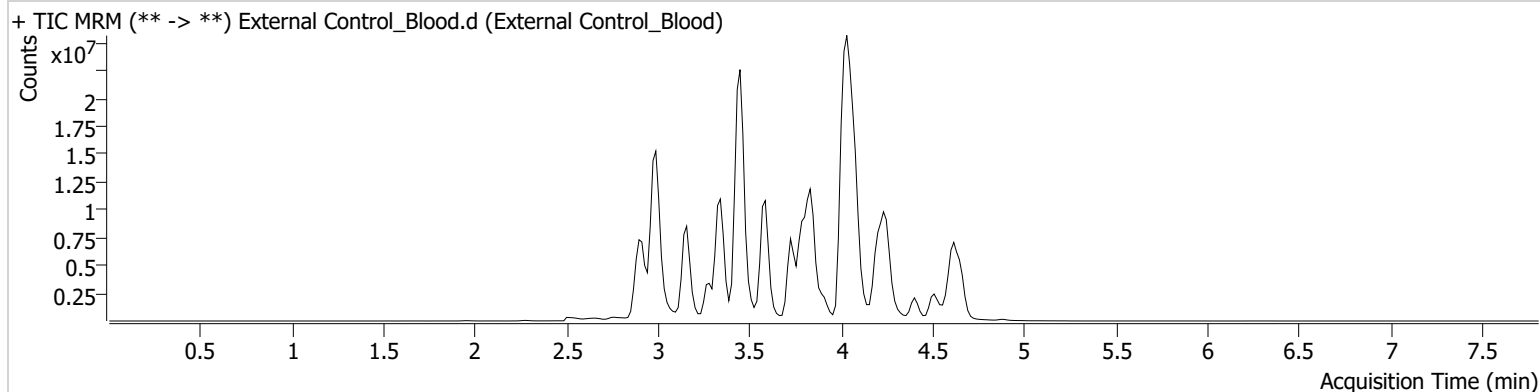


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/31/2023 4:21:24 PM

Instrument	Falco (069901)	Data File	External Control_Blood.d
Type	Sample	Sample	External Control_Blood
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P2-E12	Comment	
Injection Volume	5		
Acq. Date-Time	3/28/2023 5:26:58 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.620	9687140	1007.15	1535.57	11273323	65.3196
Buprenorphine	4.259	4363445	46980.27	336318.75	3076912	53.4960
Hydrocodone	2.991	6314154	4297.14	1889.39	10063606	34.6454
Tramadol	3.453	78425991	∞	21720.56	48027890	34.9915

TS

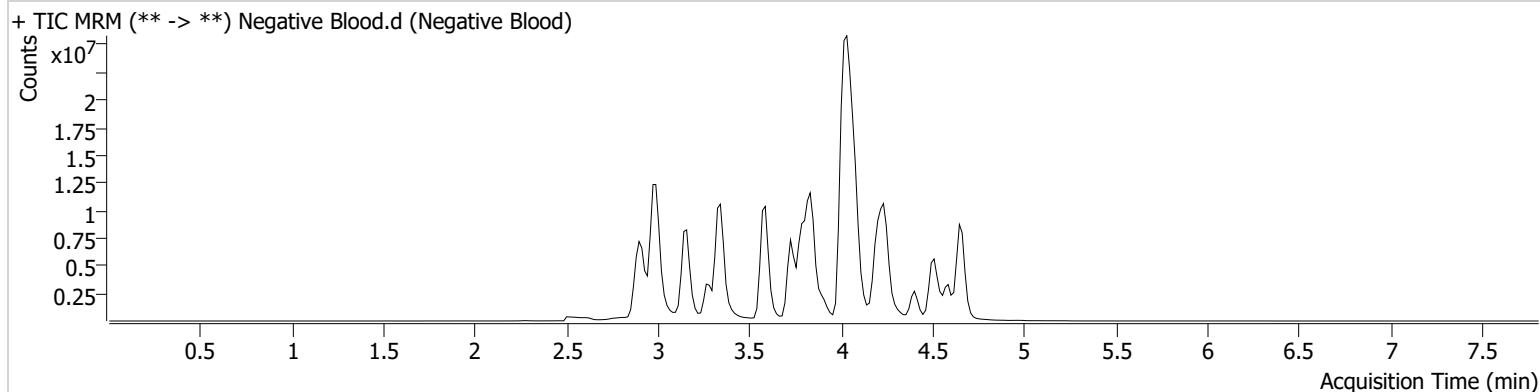


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/31/2023 4:21:24 PM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P2-F12	Comment	
Injection Volume	5		
Acq. Date-Time	3/28/2023 5:18:32 PM		
Sample Info.			

Sample Chromatogram





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 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	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	

TS

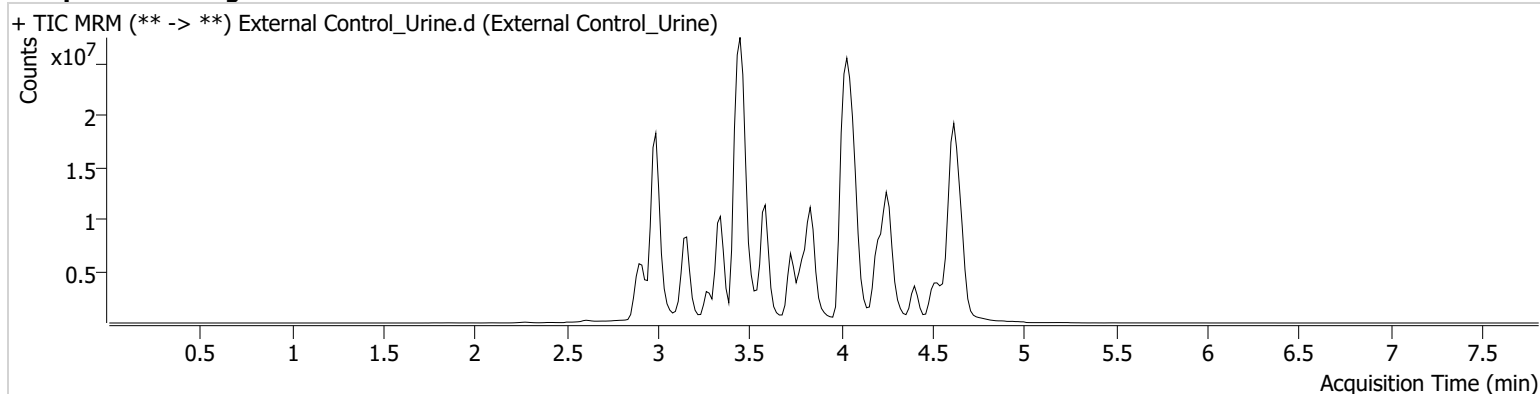


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/31/2023 4:21:24 PM

Instrument	Falco (069901)	Data File	External Control_Urine.d
Type	Sample	Sample	External Control_Urine
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P2-C11	Comment	
Injection Volume	5		
Acq. Date-Time	3/28/2023 6:59:47 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.620	29841836	1441.24	5733.14	21152198	107.2432
Buprenorphine	4.259	12623502	188529.27	797903.87	3361159	141.6764
Hydrocodone	2.991	16093208	106778.40	1559.05	7806943	113.8271
Tramadol	3.453	117683689	2853.66	323.85	47879067	52.6704

TS

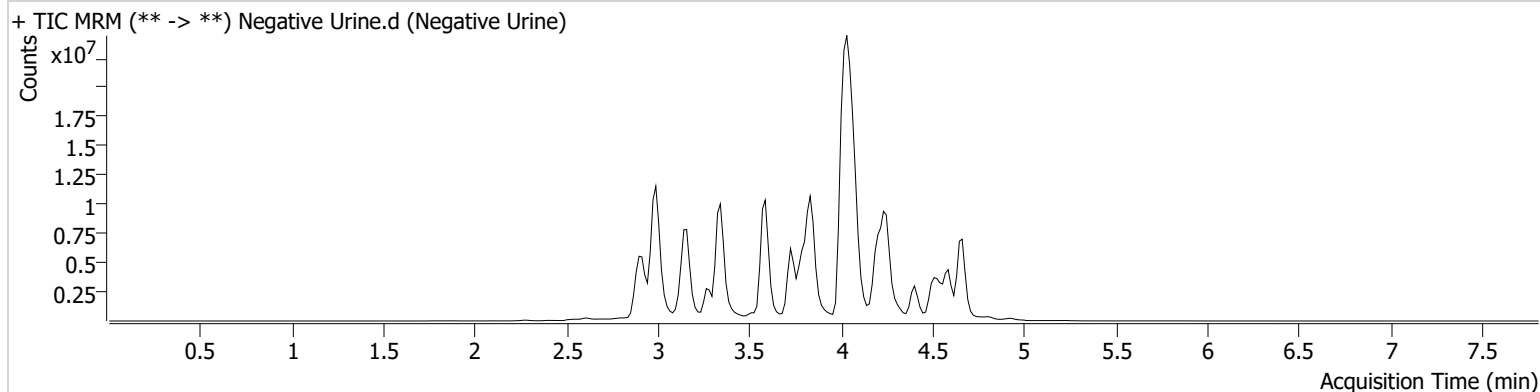


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/31/2023 4:21:24 PM

Instrument	Falco (069901)	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P2-B11	Comment	
Injection Volume	5		
Acq. Date-Time	3/28/2023 6:51:19 PM		
Sample Info.			

Sample Chromatogram



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

Extraction Date: 03/28/2023

Plate lot#: 220802

Mobile phase A: 10mM Amm Form in LCMS Water

Blank Blood Lot: Lampire 23A52593

LCMS-QQQ ID: 069901

Analyst: Tamara Salazar

Plate Retest Date: 07/23/2023

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: 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: 42
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. 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.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer 700-800µL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 µL
- 8. 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*)
- 9. Wait 5 minutes.
- 10. Add 2.25mL MTBE. (*Add in 3 increments of 750uL*)
- 11. Wait 5 minutes.
- 12. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*).
- 13. Add 2.25mL Hexane. (*Add in 3 increments of 750uL*)
- 14. Wait 5 minutes.
- 15. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*).
- 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 17. Reconstitute in 100µL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

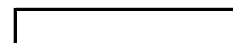
- 1. Create batch and process data.
- 2. Make any necessary integration changes, R² values ≥0.98 for each analyte
- 3. RT +/- 2% or 0.100 min, whichever is greater
- 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (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: THC – 3-100 – calibrator 1 dropped due to peak shape

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	P2023-0611-1	M2023-1204-6	P2023-0920-1	IS + QC_1
B	IS + Cal. 2	Neg Blood	P2023-0703-1	P2023-0250-1		IS + Cal. 7
C	IS + Cal. 3	M2023-0991-1	P2023-0732-1	P2023-0392-1		IS + Cal. 6
D	IS + Cal. 4	P2023-0331-2	Urine Neg	P2023-0580-1		IS + Cal. 5
E	IS + Cal. 5	P2023-0534-1	M2023-0326-3	P2023-0812-1		IS + Cal. 4
F	IS + Cal. 6	P2023-0536-1	M2023-0406-2	P2023-0870-1		IS + Cal. 3
G	IS + Cal. 7	P2023-0543-1	M2023-0695-2	P2023-0870-2		IS + Cal. 2
H	IS + QC_1	P2023-0598-1	M2023-0991-3	P2023-0870-3		IS + QC_1

All wells to contain 100 µl of residual DMSO



TS

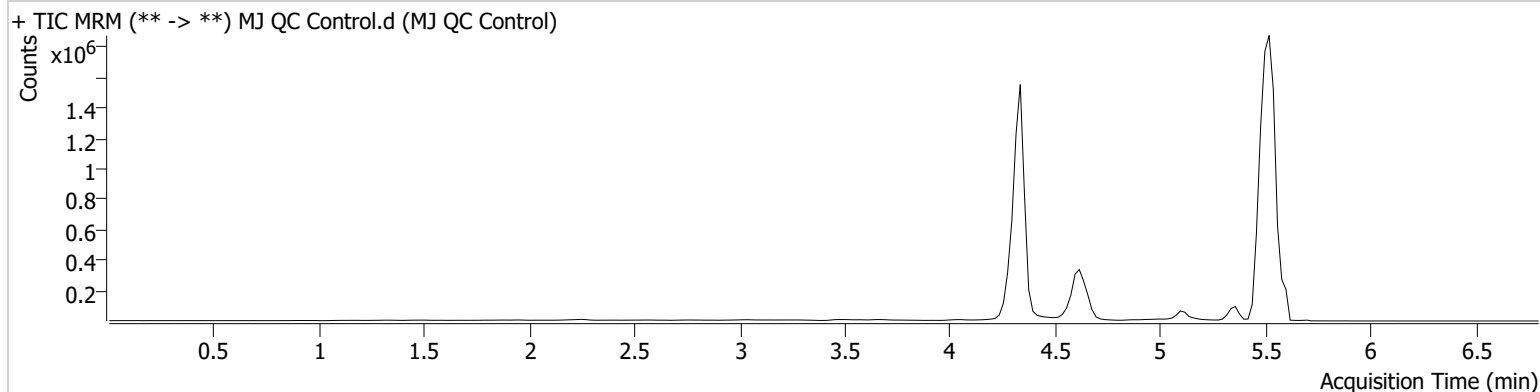


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ QC Control.d
Type	QC	Sample	MJ QC Control
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 1:10:44 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	4636	126699	4.8861 ng/ml
THC-COOH	4.636	224446	1124145	14.1293 ng/ml
THC-OH	4.342	48209	5451372	4.6631 ng/ml

TS

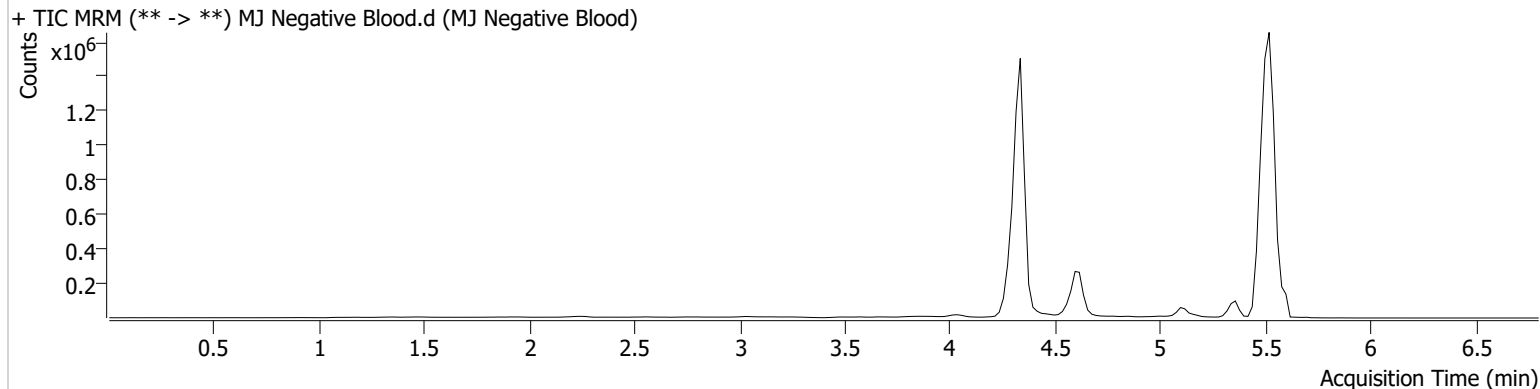


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-B2	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 1:25:54 PM		
Sample Info.			

Sample Chromatogram



TS

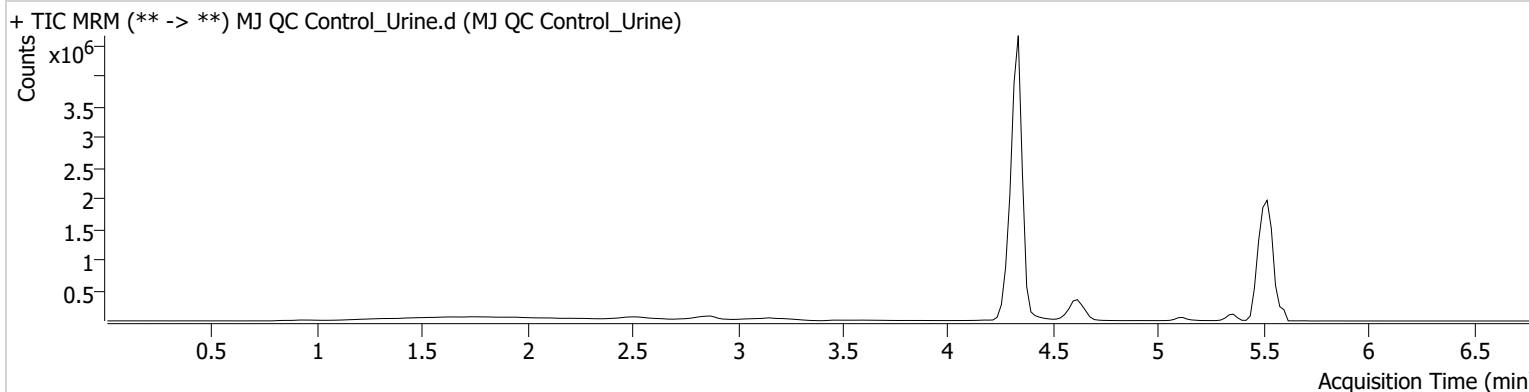


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ QC Control_Urine.d
Type	QC	Sample	MJ QC Control_Urine
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-A2	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 2:41:43 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.469	2009	59644	4.5619 ng/ml
THC-COOH	4.636	219105	1183229	13.0846 ng/ml
THC-OH	4.342	144613	16475337	4.6300 ng/ml

TS

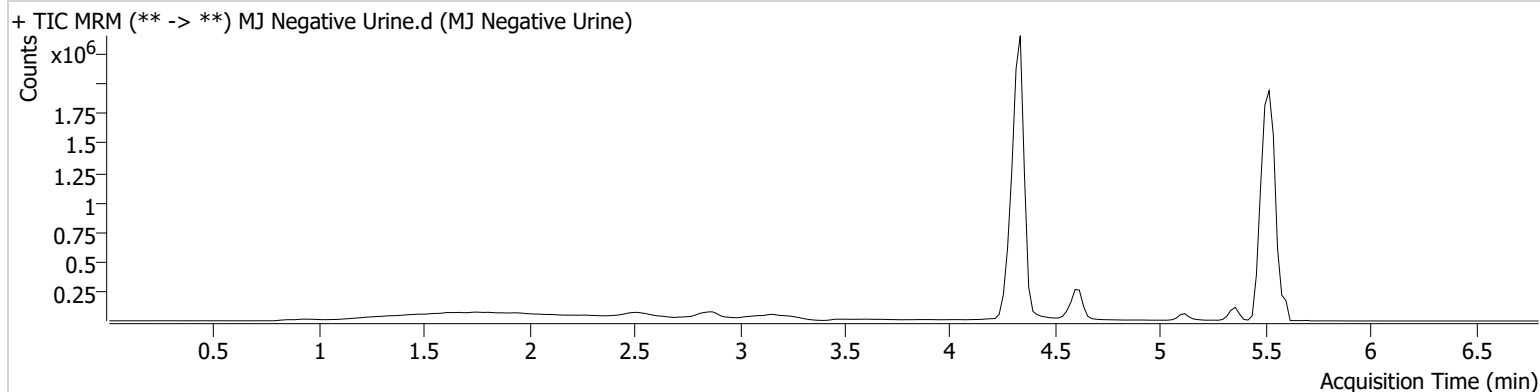


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 26\032823 AM 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Negative Urine.d
Type	Sample	Sample	MJ Negative Urine
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-D3	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 2:56:53 PM		
Sample Info.			

Sample Chromatogram

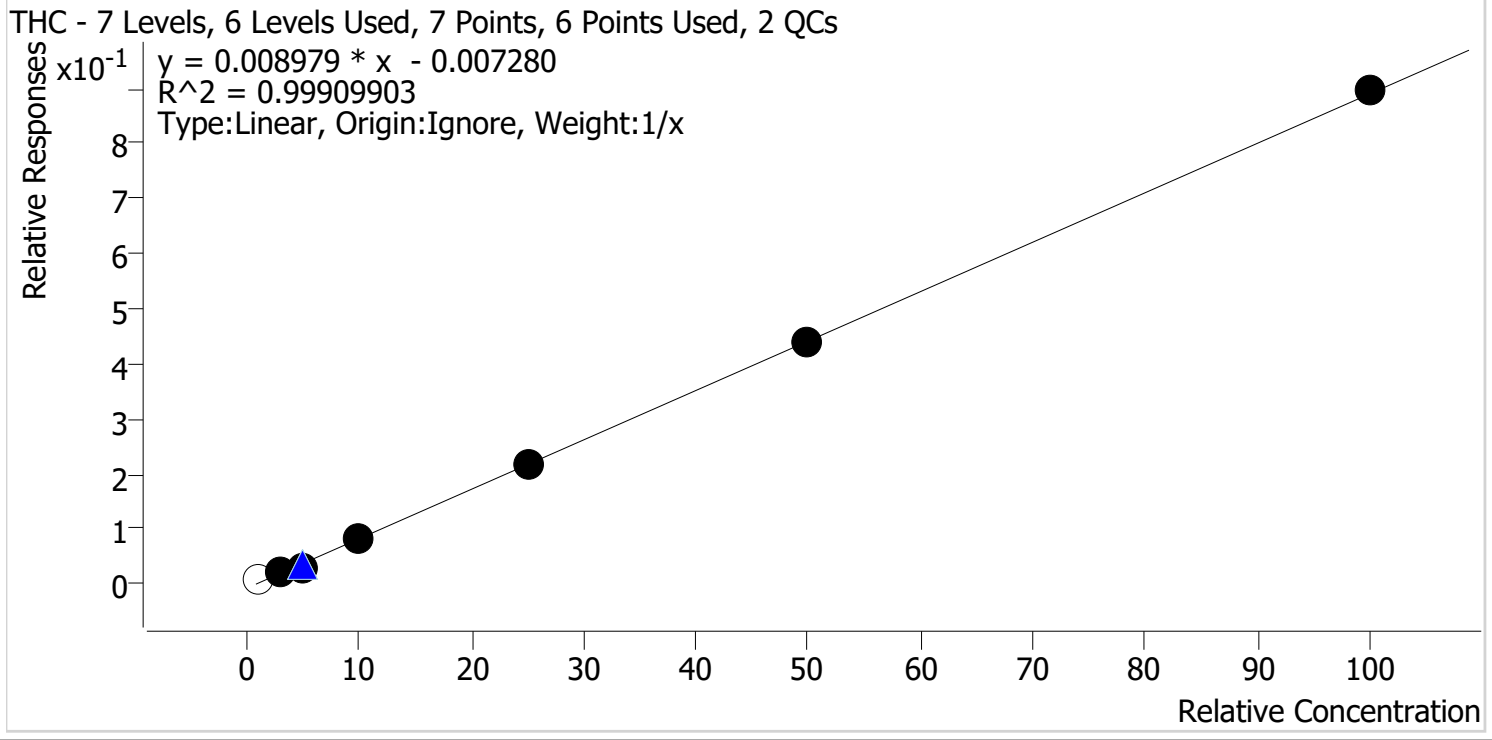


TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/29/2023 9:05 AM
Analyst Name ISP\tsalazar
Analyte THC **Internal Standard** THC-D3



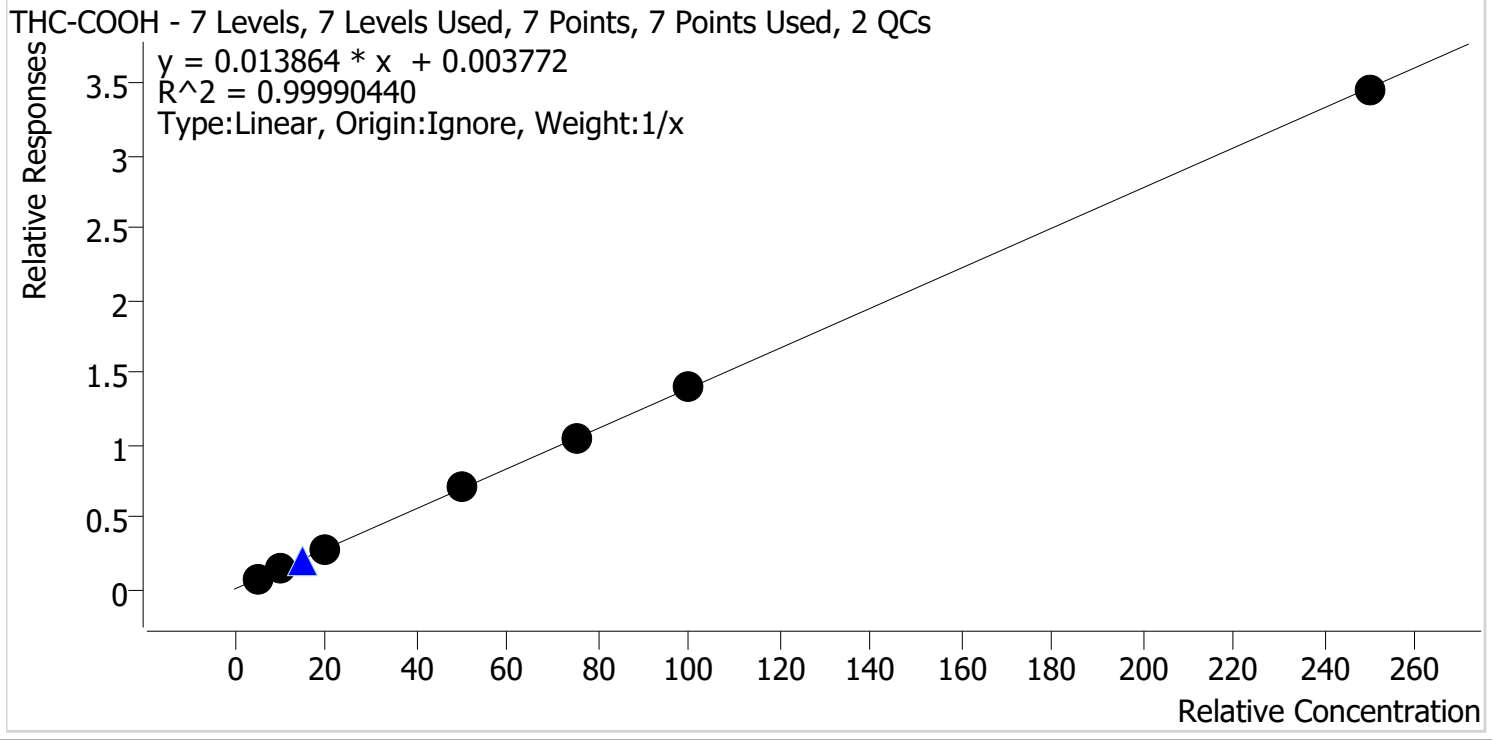
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	1.9	191.5
MJ Cal 2	2	✓	3.0	3.4	112.6
MJ Cal 3	3	✓	5.0	4.4	87.8
MJ Cal 4	4	✓	10.0	10.0	100.2
MJ Cal 5	5	✓	25.0	24.8	99.2
MJ Cal 6	6	✓	50.0	49.8	99.6
MJ Cal 7	7	✓	100.0	100.6	100.6

TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/29/2023 9:05 AM
Analyst Name ISP\tsalazar
Analyte THC-COOH **Internal Standard** THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.0	99.6
MJ Cal 2	2	✓	10.0	9.8	97.9
MJ Cal 3	3	✓	20.0	20.1	100.5
MJ Cal 4	4	✓	50.0	50.9	101.9
MJ Cal 5	5	✓	75.0	75.0	100.0
MJ Cal 6	6	✓	100.0	100.7	100.7
MJ Cal 7	7	✓	250.0	248.5	99.4

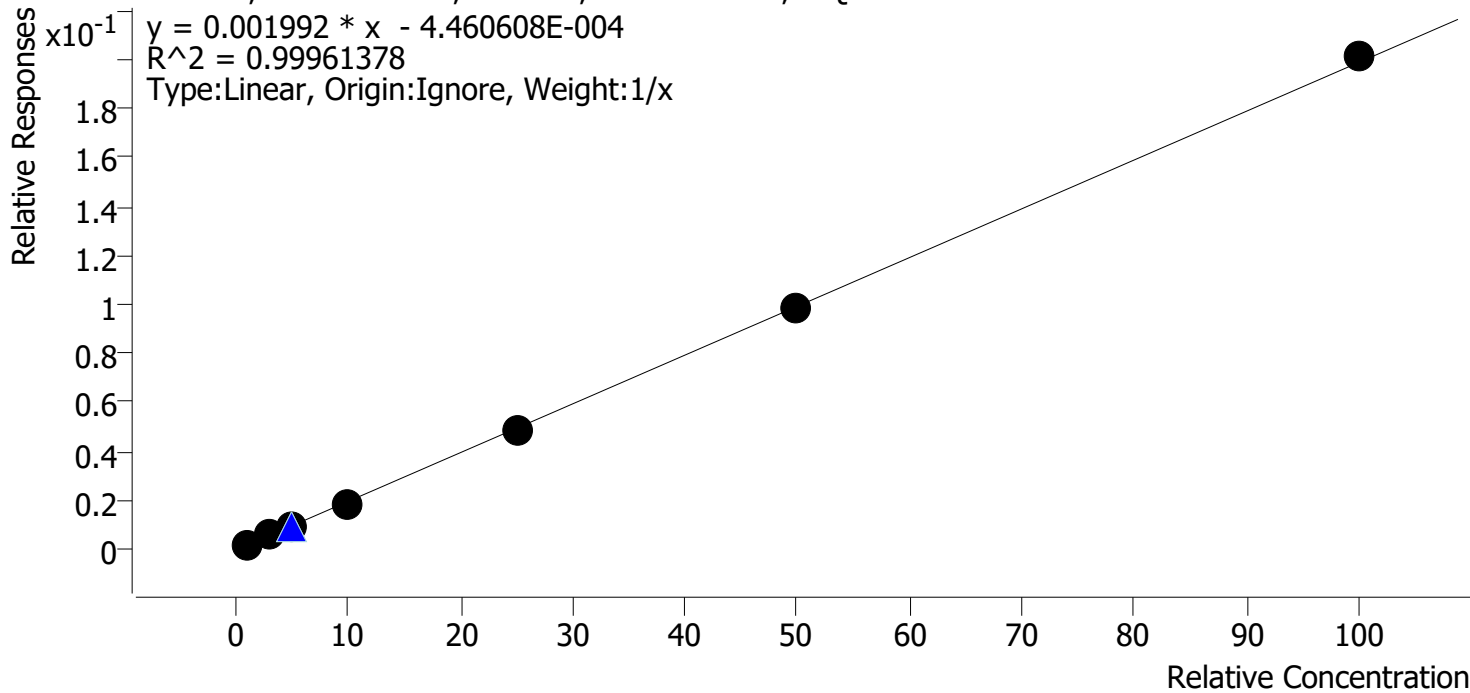
TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/29/2023 9:05 AM
Analyst Name ISP\tsalazar
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.1	112.6
MJ Cal 2	2	✓	3.0	2.9	96.9
MJ Cal 3	3	✓	5.0	4.7	94.1
MJ Cal 4	4	✓	10.0	9.7	97.4
MJ Cal 5	5	✓	25.0	24.6	98.5
MJ Cal 6	6	✓	50.0	49.7	99.5
MJ Cal 7	7	✓	100.0	101.2	101.2

TS

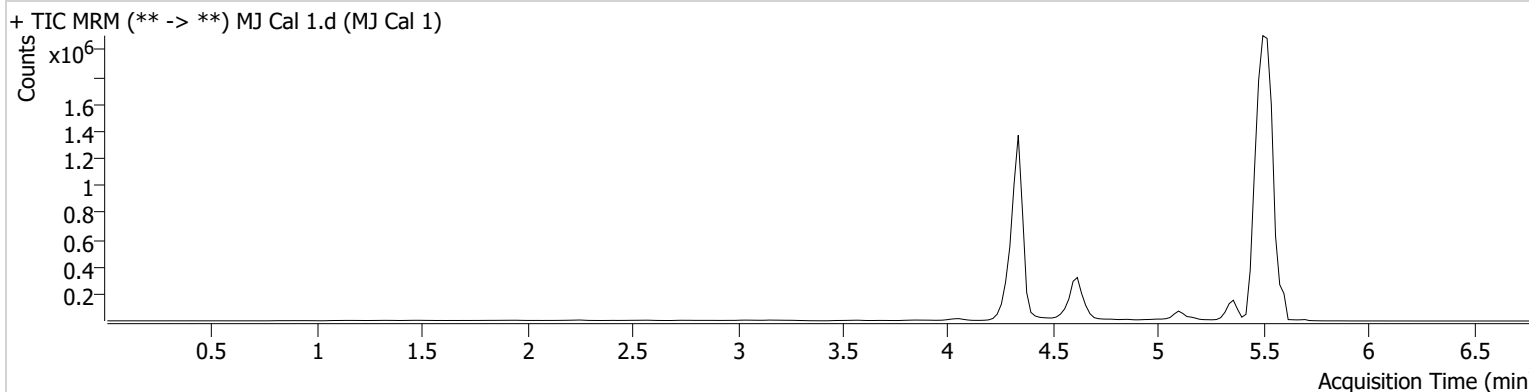


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:17:31 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.550	2840	286310	1.9153 ng/ml	Low
THC-COOH	4.656	91641	1258351	4.9808 ng/ml	Low
THC-OH	4.342	9237	5141325	1.1258 ng/ml	Low

TS



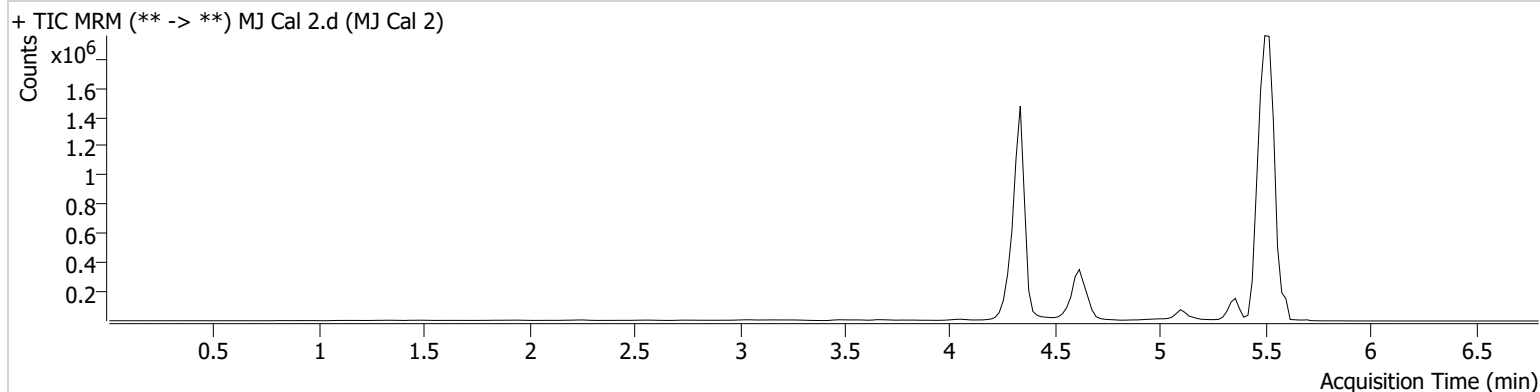
AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:25:15 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	8158	354103	3.3765 ng/ml
THC-COOH	4.656	175702	1259065	9.7936 ng/ml
THC-OH	4.342	28649	5362203	2.9058 ng/ml Low

TS

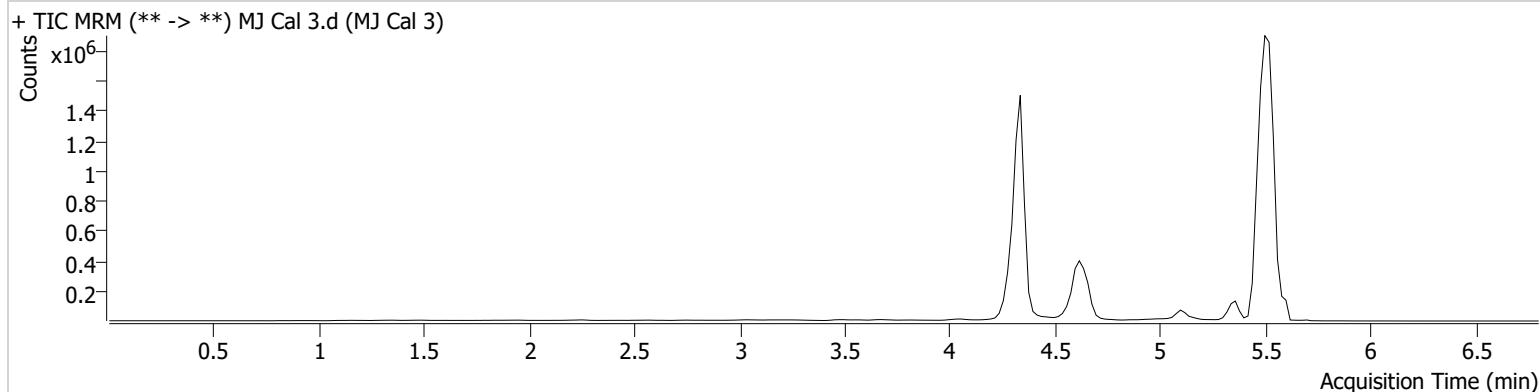


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:32:49 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	7266	226048	4.3906 ng/ml
THC-COOH	4.636	348123	1232860	20.0952 ng/ml
THC-OH	4.342	47326	5303885	4.7030 ng/ml

TS

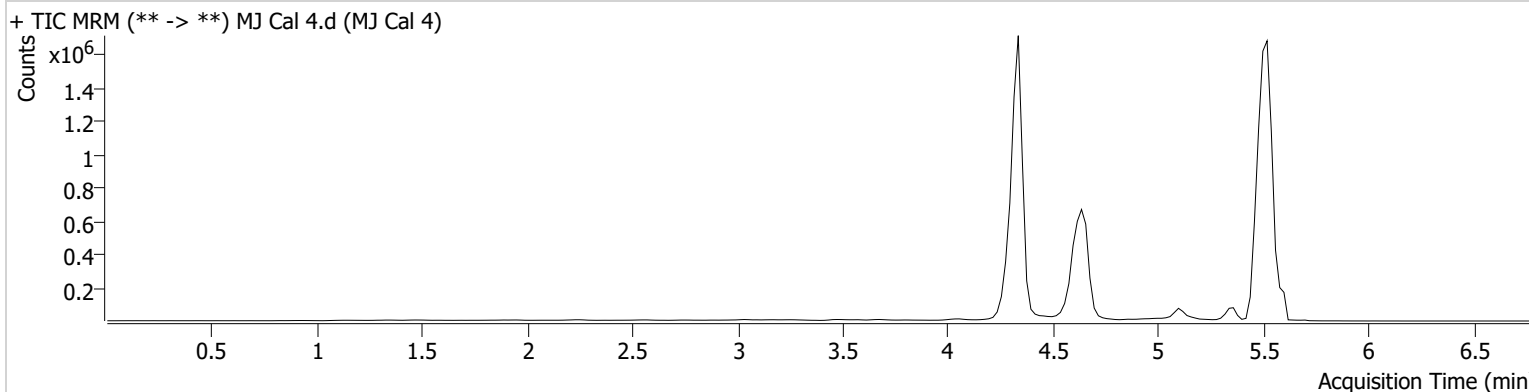


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:40:23 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	14054	169921	10.0219 ng/ml
THC-COOH	4.636	884041	1245444	50.9270 ng/ml
THC-OH	4.342	106325	5610806	9.7363 ng/ml

TS



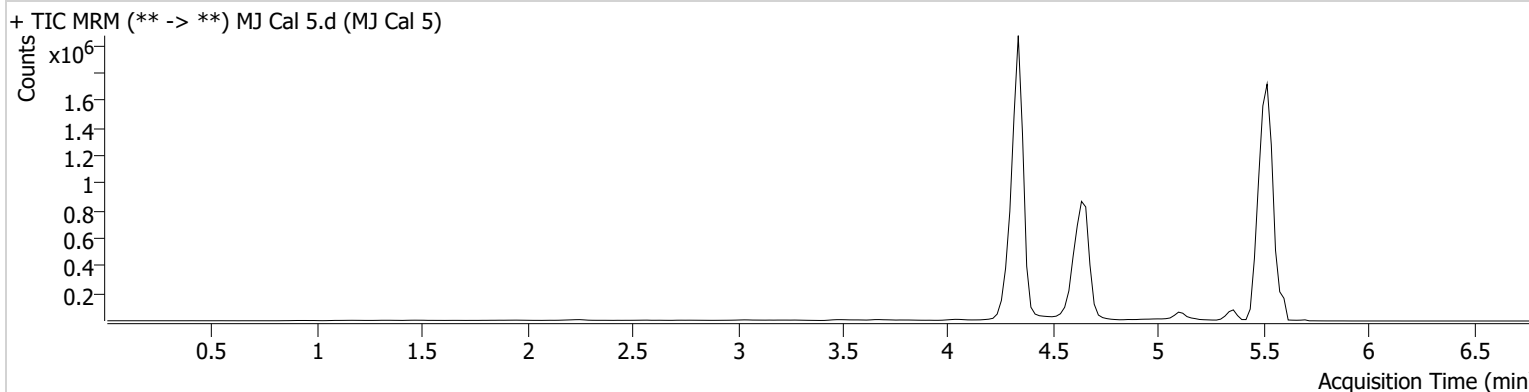
AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:47:57 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	34757	161300	24.8090 ng/ml
THC-COOH	4.656	1244233	1192531	74.9847 ng/ml
THC-OH	4.342	272733	5611458	24.6213 ng/ml

TS

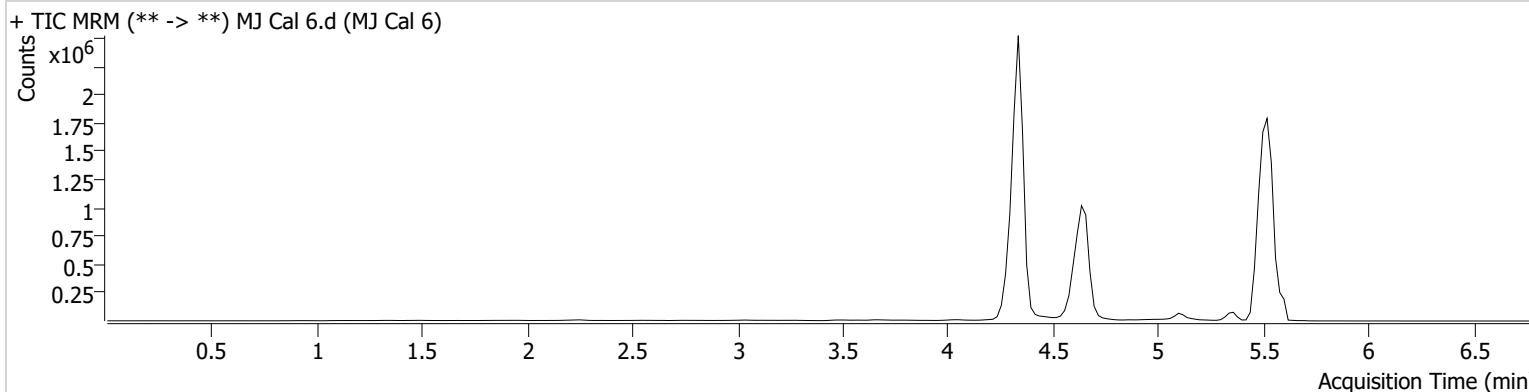


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 12:55:34 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	58383	132782	49.7792 ng/ml
THC-COOH	4.636	1477058	1054621	100.7496 ng/ml
THC-OH	4.342	512391	5193648	49.7474 ng/ml

TS

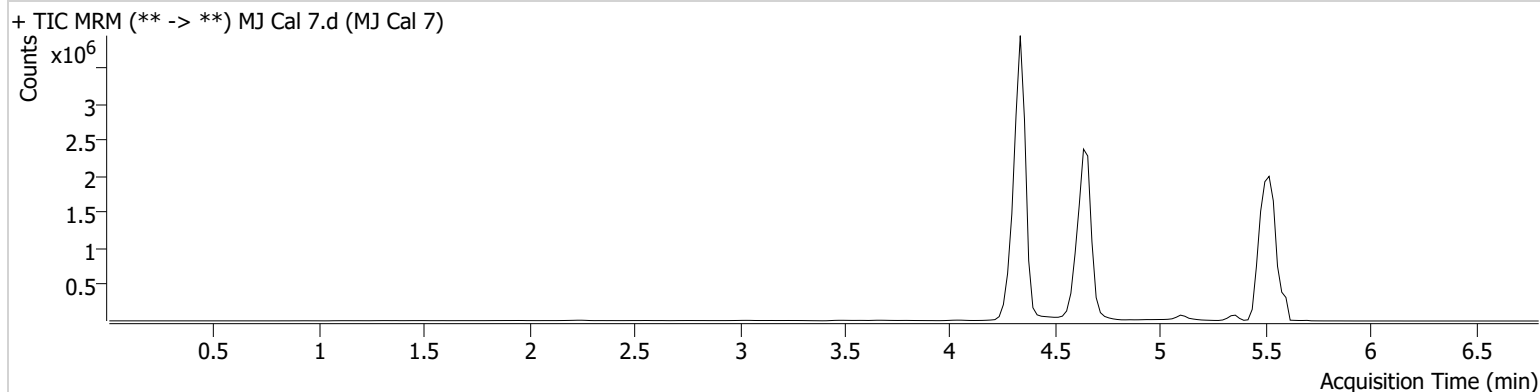


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2023\AM 25 26\032823 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/29/2023 9:05:13 AM

Instrument	Falco (069901)	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	3/28/2023 1:03:08 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.550	92454	103159	100.6228 ng/ml
THC-COOH	4.636	3800039	1101930	248.4690 ng/ml
THC-OH	4.342	1128453	5612000	101.1604 ng/ml