TS 10/16/2023

REVIEWED
By Sarah Collins at 9:53 am, Oct 31, 2023

Worklist: 6527

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-3411	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3436	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3486	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3487	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3540	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3732	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2484	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2529	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2558	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2564	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2567	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2626	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2675	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2696	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2700	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2701	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2702	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2711	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2740	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2784	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2798	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 6527

TS

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2023-2891	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3011	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3012	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3014	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3019	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3044	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3057	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

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

Extraction Date: 10/16/2023
Analyst: Tamara Salazar
Plate lot#: 230712
Plate Retest Date: 01/12/2024
Mobile phase A: 10mM Amm Form in LCMS Water
Mobile phase B: 0.1% Formic Acid in MeOH
Blank Blood Lot: Lampire 23E52981
Blank Urine Lot:
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: *250uL*
☒ 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: Case sample P2023-3019-1 did not inject properly with initial injection. The sample was re-injected.

TS

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	M2023-3487-1	P2023-2626-1	P2023-2784-1	P2023-3057-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	M2023-3540-1	P2023-2675-2	P2023-2798-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	IS + Control 1	M2023-3732-2	P2023-2696-1	P2023-2891-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	IS + Control 1	P2023-2484-1	P2023-2700-1	P2023-3011-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	Neg Blood	P2023-2529-1	P2023-2701-1	P2023-3012-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Control 1
F	M2023-3411-1	P2023-2558-3	P2023-2702-1	P2023-3014-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Control 1
G	M2023-3436-2	P2023-2564-1	P2023-2711-1	P2023-3019-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	M2023-3486-1	P2023-2567-1	P2023-2740-1	P2023-3044-3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1

All wells to contain 60 µl of residual DMSO

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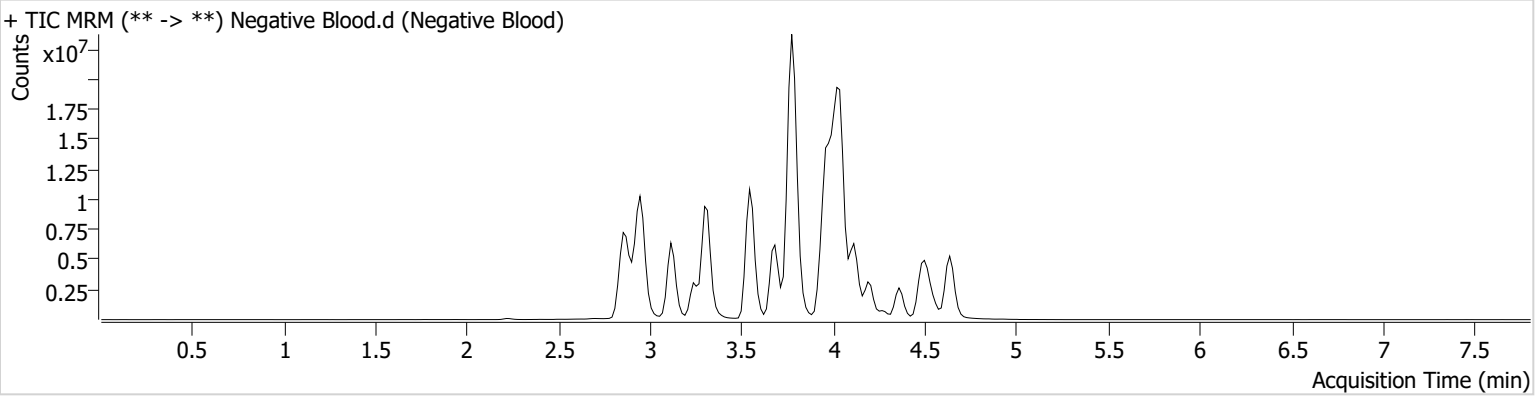
AM #25 Multi-Drug Screen. Results

Batch results	D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update	10/31/2023 8:47:31 AM

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-E1	**Comment**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	5		
Acq. Date-Time	10/17/2023 9:11:17 AM		
Sample Info.			

Sample Chromatogram



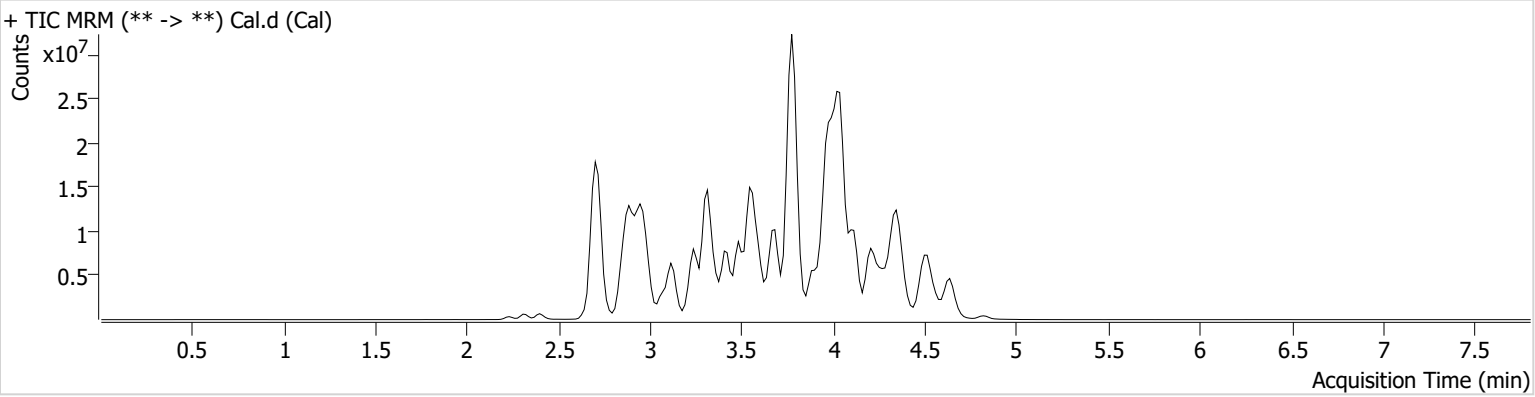
TS

AM #25 Multi-Drug Screen. Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 10/31/2023 8:47:31 AM

Instrument	Falco (069901)	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P2-A1	**Comment**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	5		
Acq. Date-Time	10/17/2023 9:02:43 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
10-OH-Carbamazepine	3.765	2317179	140.75	111.7	563.79	16073221	10.0000 ng/ml
6-MAM	2.851	52643	36362.12	70.3	20385.02	1793410	10.0000 ng/ml
7-aminoclonazepam	3.561	1369252	5462.08	76.4	681.49	6882179	10.0000 ng/ml
7-aminoflunitrazepam	3.777	1936377	367.12	23.8	119.04	6882179	10.0000 ng/ml
9-Hydroxyrisperidone	3.785	6252509	1232.68	2.5	109276.76	33138772	10.0000 ng/ml
Acetyl Fentanyl	3.727	420096	377.55	70.3	154132.96	32007030	10.0000 ng/ml
Acetyl Norfentanyl	2.890	418900	470.08	33.0	425.27	32007030	10.0000 ng/ml
a-hydroxyalprazolam	4.498	109024	24.65	48.9	∞	6882179	10.0000 ng/ml
alpha-hydroxymidazolam	4.512	987460	428.61	61.8	327.71	6882179	10.0000 ng/ml
Alpha-PHP	3.765	3640698	35325.63	36.8	7789.85	32007030	10.0000 ng/ml
alpha-PVP	3.489	6197259	3043.14	48.4	939.57	14117062	10.0000 ng/ml
Alprazolam	4.608	1079209	181.04	93.8	126.47	8675539	10.0000 ng/ml
Amitriptyline	4.365	2629765	769.92	67.0	561.02	8068747	10.0000 ng/ml
Amphetamine	2.894	3605498	1174.87	213.4	704.82	14117062	10.0000 ng/ml
Benzoylecgonine	3.392	107034	360.75	25.9	11124.65	436002	10.0000 ng/ml
Bromazolam	4.665	454961	22404.27	151.8	190224.45	8675539	10.0000 ng/ml
Brompheniramine	3.990	126341	167.22	939.9	426.47	49330776	10.0000 ng/ml
Buprenorphine	4.031	62804	27922.29	10.6	3665.30	2879634	10.0000 ng/ml
Bupropion	3.688	4858656	838.14	64.7	1273.75	20985705	10.0000 ng/ml
Carbamazepine	4.214	8801138	∞	91.4	∞	273382	10.0000 ng/ml
Carisoprodol	4.212	1360528	889.60	66.5	150.07	8819544	10.0000 ng/ml
Chlordiazepoxide	4.625	699769	146.30	71.9	75546.99	8675539	10.0000 ng/ml
Chlorpheniramine	3.901	7990439	979.47	0.2	353.35	12368655	10.0000 ng/ml
Chlorpromazine	4.530	1853892	1553.02	126.0	327020.73	8664054	10.0000 ng/ml
Citalopram	4.020	2995392	615.40	32.8	441690.91	49330776	10.0000 ng/ml
Clomipramine	4.561	1926913	683534.96	80.4	13530.75	49330776	10.0000 ng/ml
Clonazepam	4.422	555573	369.92	29.8	11096.74	273382	10.0000 ng/ml
Clonazolam	4.357	897998	491493.70	34.3	220187.58	8675539	10.0000 ng/ml
Clozapine	4.112	4212012	5150.49	82.0	1457.69	18791001	10.0000 ng/ml
Cocaethylene	3.743	4668133	2295362.72	47.3	5091.16	29387820	10.0000 ng/ml

TS

AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Cocaine	3.544	4859911	1596.30	20.8	344.33	29387820	10.0000 ng/ml
Codeine	2.748	354715	1284.73	97.6	1642.75	9718667	10.0000 ng/ml
Cyclobenzaprine	4.288	3472635	800.37	7.9	199.36	8068747	10.0000 ng/ml
Desipramine	4.320	6234169	1763.42	42.5	918.85	8068747	10.0000 ng/ml
Dextromethorphan	4.025	2336004	1040.44	73.4	11738.96	12368655	10.0000 ng/ml
Dextrorphan	3.363	2910777	9834.49	49.3	245.82	12368655	10.0000 ng/ml
Diazepam	4.826	746361	523.47	88.0	276.44	8675539	10.0000 ng/ml
Dihydrocodeine	2.717	906176	1418.67	61.6	374.04	9718667	10.0000 ng/ml
Diphenhydramine	3.995	12160951	7498.97	28.0	1805.05	49330776	10.0000 ng/ml
DMT	2.953	450238	767.11	116.1	2350.27	12368655	10.0000 ng/ml
Doxepin	4.086	2539872	758.08	46.6	245.42	23676239	10.0000 ng/ml
Doxylamine	3.593	8518035	1398.39	91.8	904.56	12368655	10.0000 ng/ml
Duloxetine	4.286	158101	135930.58	831.6	22720.70	1694534	10.0000 ng/ml
EDDP	4.055	618387	206.44	50.3	124.14	3215547	10.0000 ng/ml
Estazolam	4.502	1823442	372.00	49.8	312.82	8675539	10.0000 ng/ml
Etizolam	4.619	187482	106243.39	381.6	442735.88	8675539	10.0000 ng/ml
Fentanyl	3.942	332593	357.66	68.4	99287.65	23507944	10.0000 ng/ml
Flualprazolam	4.467	753150	351057.32	98.5	195995.51	8675539	10.0000 ng/ml
Flunitrazepam	4.515	273920	204.30	37.3	∞	8675539	10.0000 ng/ml
Fluorofentanyl	3.971	553009	28640.88	82.6	965.56	23507944	10.0000 ng/ml
Fluoxetine	4.285	4017897	22409.00	7.8	819.82	6260321	10.0000 ng/ml
Flurazepam	4.063	2997587	1786.48	22.3	1513.43	8675539	10.0000 ng/ml
Hydrocodone	2.931	1520343	1161.72	38.2	723.83	9718667	10.0000 ng/ml
Hydromorphone	2.399	1117804	4330.08	76.1	79484.91	274578	10.0000 ng/ml
Hydroxyzine	4.387	2569177	211936.77	80.7	2862.33	18791001	10.0000 ng/ml
Imipramine	4.334	6728552	911.48	64.1	398.01	8068747	10.0000 ng/ml
Ketamine	3.334	3258250	843.98	36.6	212.03	11721525	10.0000 ng/ml
Lamotrigine	3.487	353263	608264.52	77.1	107771.87	49330776	10.0000 ng/ml
Levamisole	2.906	2736083	1665.55	83.8	281.32	29387820	10.0000 ng/ml
Levetiracetam	2.664	1323272	270.00	177.8	627.04	49330776	10.0000 ng/ml
Lorazepam	4.422	170974	688.18	307.9	477.07	8675539	10.0000 ng/ml
Maprotiline	4.350	2013404	205.67	79.1	3912.29	8068747	10.0000 ng/ml
MDA	2.999	3137911	455.03	40.3	296.96	30208885	10.0000 ng/ml
MDEA	3.229	5015363	491.25	50.1	633.29	30208885	10.0000 ng/ml
MDMA	3.075	5473812	12896.06	49.2	435.81	30208885	10.0000 ng/ml
Meperidine	3.564	2379173	391.46	60.7	2278.36	12368655	10.0000 ng/ml
Meprobamate	3.675	1179238	355.86	22.8	111.49	8819544	10.0000 ng/ml
Methadone	4.346	6786295	965.42	47.4	702.86	3215547	10.0000 ng/ml
Methamphetamine	2.986	6249832	11411.09	39.9	405.16	30208885	10.0000 ng/ml
Methocarbamol	3.580	370313	350.42	88.1	115453.26	3215547	10.0000 ng/ml
Methylphenidate	3.489	11005804	324.20	22.9	1378.42	17278913	10.0000 ng/ml
Metoprolol	3.424	774991	381.97	107.7	671496.41	12368655	10.0000 ng/ml
Midazolam	4.467	582195	1411.91	93.1	7191.64	8675539	10.0000 ng/ml
Mirtazapine	3.655	2851694	2689.84	217.3	1133.15	12368655	10.0000 ng/ml
Mitragynine	4.078	635611	1096.19	228.4	1126132.69	12368655	10.0000 ng/ml
Morphine	2.233	217463	829.93	87.4	156.60	274578	10.0000 ng/ml
Norbuprenorphine	3.785	81480	35832.33	102.8	36163.99	2879634	10.0000 ng/ml
Nordiazepam	4.674	669683	987.55	63.0	325.38	8675539	10.0000 ng/ml
Norfentanyl	3.319	6849697	7906.10	36.9	911.05	32007030	10.0000 ng/ml
Norhydrocodone	2.918	176162	83.90	43.3	1578.12	274578	10.0000 ng/ml
Norketamine	3.305	617271	327.86	519.8	2889.94	11721525	10.0000 ng/ml
Normeperidine	3.581	2708182	611.59	67.7	784.23	49330776	10.0000 ng/ml
Noroxycodone	2.870	1384521	∞	30.4	291.98	11721525	10.0000 ng/ml
Nortriptyline	4.367	2053860	623.21	70.0	440.61	8068747	10.0000 ng/ml
O-desmethyl-tramadol	2.904	7213780	19135.88	5.7	169.33	49330776	10.0000 ng/ml
O-desmethylvenlafaxine	3.240	1686170	176.77	622.4	∞	9437434	10.0000 ng/ml
Olanzapine	3.359	1750965	1235686.18	51.5	464.60	273382	10.0000 ng/ml
Oxazepam	4.487	706898	1012.95	72.3	314.63	5204371	10.0000 ng/ml
Oxycodone	2.883	2531253	703.58	30.9	919.73	11721525	10.0000 ng/ml

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AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Oxymorphone	2.305	1242912	185.58	47.4	1831.65	274578	10.0000 ng/ml
Paroxetine	4.282	553040	250.63	52.1	144765.21	6260321	10.0000 ng/ml
Phenazepam	4.619	1095365	309751.83	66.3	473234.14	8675539	10.0000 ng/ml
Phencyclidine	3.889	6308565	374.99	61.4	2191.13	12368655	10.0000 ng/ml
Phentermine	3.139	1280678	161.51	8.8	50.22	17278913	10.0000 ng/ml
Phenytoin	4.120	503690	346.56	79.8	179.96	273382	10.0000 ng/ml
Primidone	3.475	2436686	2105.98	85.1	307.07	273382	10.0000 ng/ml
Promethazine	4.256	8576927	14899.90	30.6	724.20	49330776	10.0000 ng/ml
Pseudoephedrine	2.710	53666219	60895.46	29.4	29346.40	30208885	10.0000 ng/ml
Quetiapine	4.202	3797315	3033.19	55.4	7002.79	34545616	10.0000 ng/ml
Risperidone	3.955	7366838	10370.00	11.1	4799.47	33138772	10.0000 ng/ml
Sertraline	4.501	1176983	279754.13	102.6	2239.95	6260321	10.0000 ng/ml
Sufentanil	4.186	261499	153765.10	83.1	964.99	32007030	10.0000 ng/ml
Tapentadol	3.429	5091387	18449.75	34.9	987.80	11721525	10.0000 ng/ml
Temazepam	4.640	1807492	752.01	32.9	118.93	8675539	10.0000 ng/ml
Topiramate	3.849	94627	15596.41	36.8	19438.48	412222	10.0000 ng/ml
Tramadol	3.409	16408425	569.69	1.6	88.14	49330776	10.0000 ng/ml
Trazodone	4.048	4681335	819.57	78.9	1494.62	23676239	10.0000 ng/ml
Venlafaxine	3.778	5595783	1927.84	30.6	524.33	9437434	10.0000 ng/ml
Xylazine	3.351	2348806	1197604.24	45.8	104.54	11721525	10.0000 ng/ml
Zaleplon	4.332	1246034	450580.71	72.8	532.45	34545616	10.0000 ng/ml
Zolpidem	3.791	6905219	84652.33	25.6	1859.32	34545616	10.0000 ng/ml
Zopiclone	3.724	323613	162398.00	54.4	10392.83	1505705	10.0000 ng/ml

TS

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

Extraction Date: 10/16/2023
Plate lot#: 230113
Mobile phase A: 10mM Amm Form in LCMS Water
Blank Blood Lot: Lampire 23E52981
LCMS-QQQ ID: 069901

Analyst: Tamara Salazar
Plate Retest Date: 07/23/2023-**external control included**
Mobile phase B: 0.1% Formic acid in MeOH
Blank Urine Lot:
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, R^2 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: Case sample P2023-2798-1 did not inject properly with initial injection. The sample was re-injected.

Analytical Plate Map

TS

	1	2	3	4	5	6
A	IS + Cal. 1		M2023-3732-2	P2023-2696-1	P2023-2891-1	IS + QC_1
B	IS + Cal. 2	Neg Blood	P2023-2484-1	P2023-2700-1	P2023-3011-1	IS + Cal. 7
C	IS + Cal. 3	Blood Ext.	P2023-2529-1	P2023-2701-1	P2023-3012-1	IS + Cal. 6
D	IS + Cal. 4	M2023-3411-1	P2023-2558-3	P2023-2702-1	P2023-3014-1	IS + Cal. 5
E	IS + Cal. 5	M2023-3436-2	P2023-2564-1	P2023-2711-1	P2023-3019-1	IS + Cal. 4
F	IS + Cal. 6	M2023-3486-1	P2023-2567-1	P2023-2740-1	P2023-3044-3	IS + Cal. 3
G	IS + Cal. 7	M2023-3487-1	P2023-2626-1	P2023-2784-1	P2023-3057-1	IS + Cal. 2
H	IS + QC_1	M2023-3540-1	P2023-2675-2	P2023-2798-1	IS + QC_1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

SLE Plate Map

TS

	1	2	3	4	5	6
A	IS + Cal. 1		M2023-3732-2	P2023-2696-1	P2023-2891-1*	P2023-2558-3
B	IS + Cal. 2	Neg Blood	P2023-2484-1	P2023-2700-1	P2023-3011-1	P2023-2891-1
C	IS + Cal. 3	Blood Ext.	P2023-2529-1*	P2023-2701-1	P2023-3012-1	
D	IS + Cal. 4	M2023-3411-1	P2023-2558-3*	P2023-2702-1	P2023-3014-1	
E	IS + Cal. 5	M2023-3436-1	P2023-2564-1	P2023-2711-1	P2023-3019-1	
F	IS + Cal. 6	M2023-3486-1	P2023-2567-1	P2023-2740-1	P2023-3044-3	
G	IS + Cal. 7	M2023-3487-1	P2023-2626-1	P2023-2784-1	P2023-3057-1	
H	IS + QC_1	M2023-3540-1	P2023-2675-2	P2023-2798-1	P2023-2529-1	

*Moved during step 7 of the analysis due to a clot

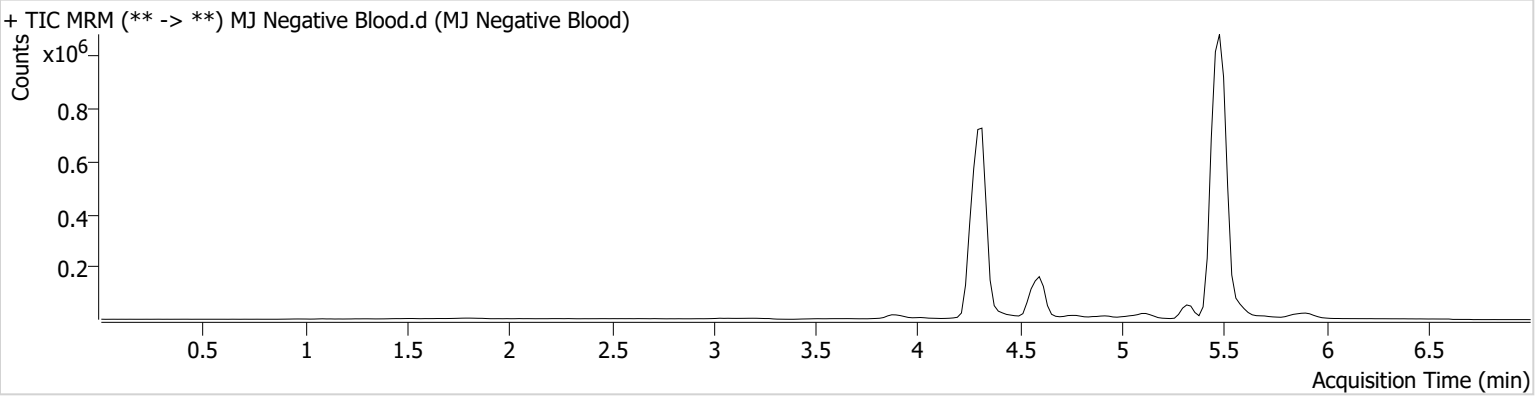
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:51:36 PM		
Sample Info.			

Sample Chromatogram



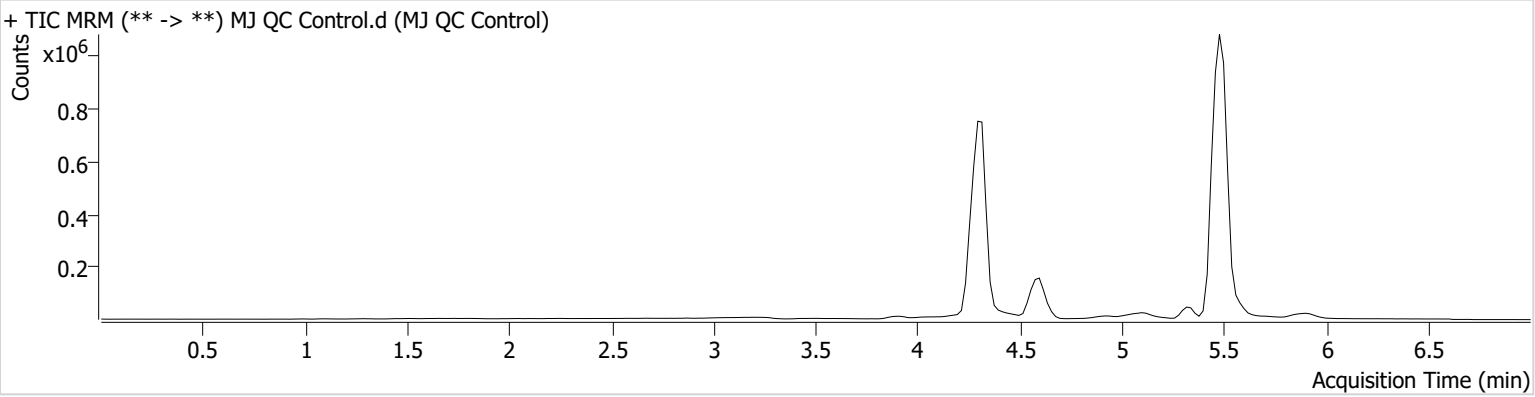
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:36:25 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	11591	19.44	116.4	∞	298922	5.3186 ng/ml
THC-COOH	4.616	91510	∞	170.3	∞	595270	14.2924 ng/ml
THC-OH	4.322	39219	∞	734.1	∞	3471777	4.6851 ng/ml

TS

Idaho State Police
Forensic Services

AM #26 Screening of THC and Metabolites and AM #27 Confirmation of THC and Metabolites Blood External Control Prep Sheet

Methanol External Control Solution (Lot: WS091323)
10 µL of 1mg/mL THC in 9990 µL MeOH
Approximate concentration 1ug/mL.

Component	***Source***	***Source Lot Number***	***Expiration Date***
Methanol (LCMS)	Fisher	217005	-
THC	Cerilliant	FE05252135	02/28/2027
Prepared:	09/13/2023		
Expires:	09/13/2024		
Prepared By:	Tamara Salazar		

Blood External Control Solution (Lot: 091323)
500 ul of methanol external control solution was added to 9500 ul of blood.
Approximately 50ng/mL each

Component	***Source***	***Source Lot Number***
Negative Blood	Lampire	23E52981
Methanol External Control Solution	-	WS101322
Prepared:	09/13/2023	
Expires:	09/13/2024	
Prepared by:	Tamara Salazar	

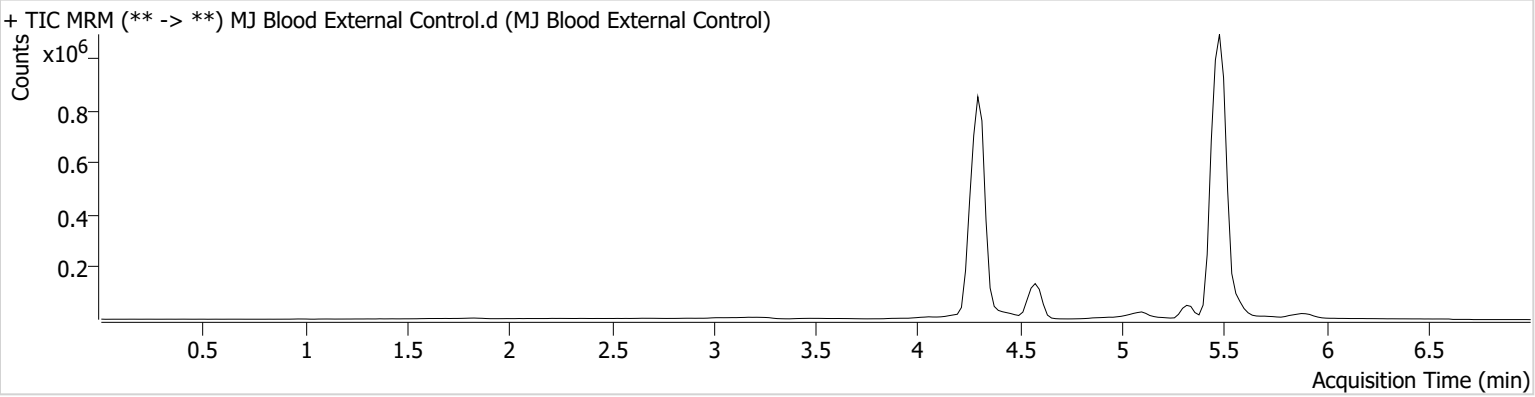
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 AM

Instrument	Falco (069901)	**Data File**	MJ Blood External Control.d
Type	Sample	**Sample**	MJ Blood External Control
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P1-C2	**Comment**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:59:10 PM		
Sample Info.			

Sample Chromatogram

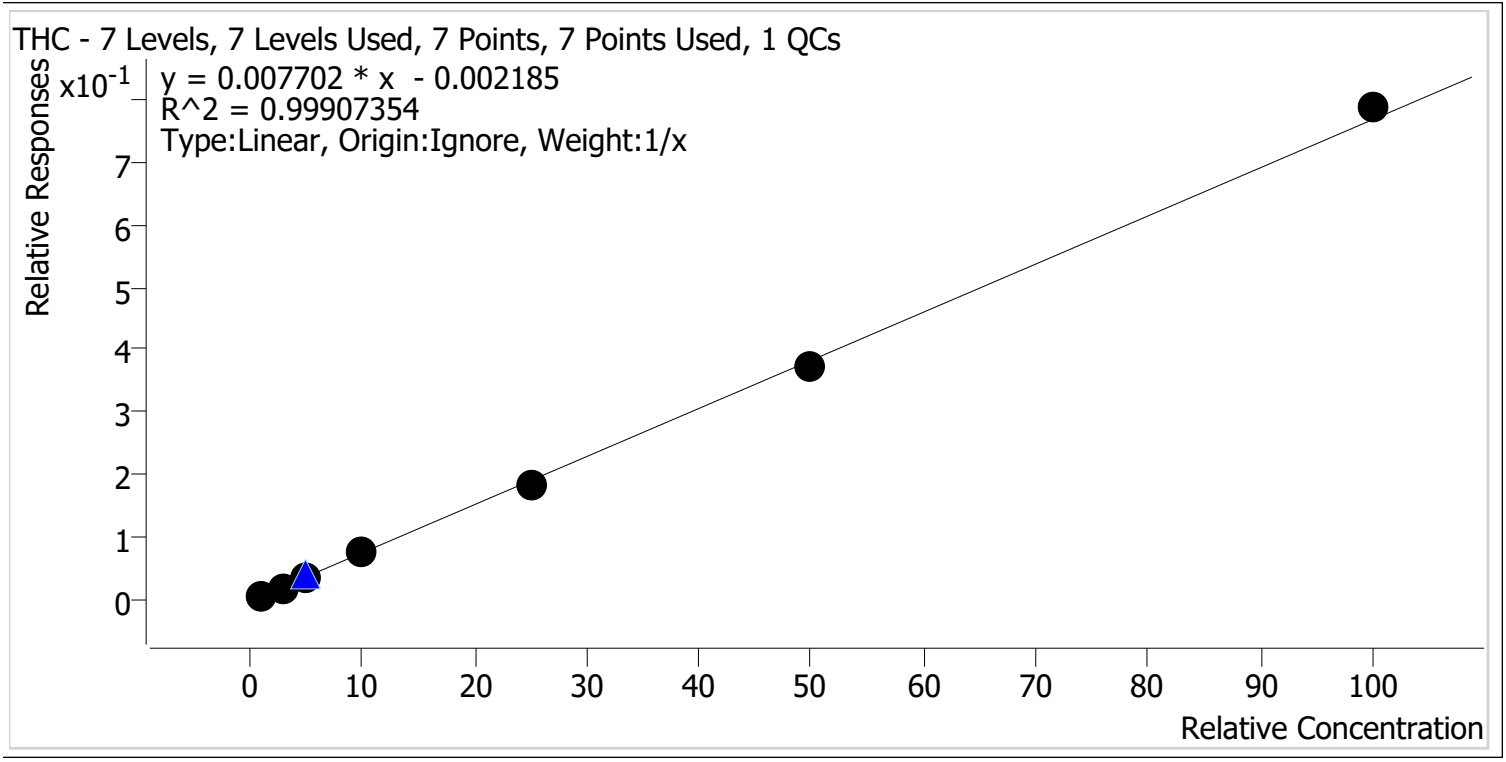


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	110783	391.05	34.4 **Low**	∞	378332	38.3043 ng/ml

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/17/2023 8:21 AM
Analyst Name	ISP\Datastor
Analyte	THC
Internal Standard	THC-D3



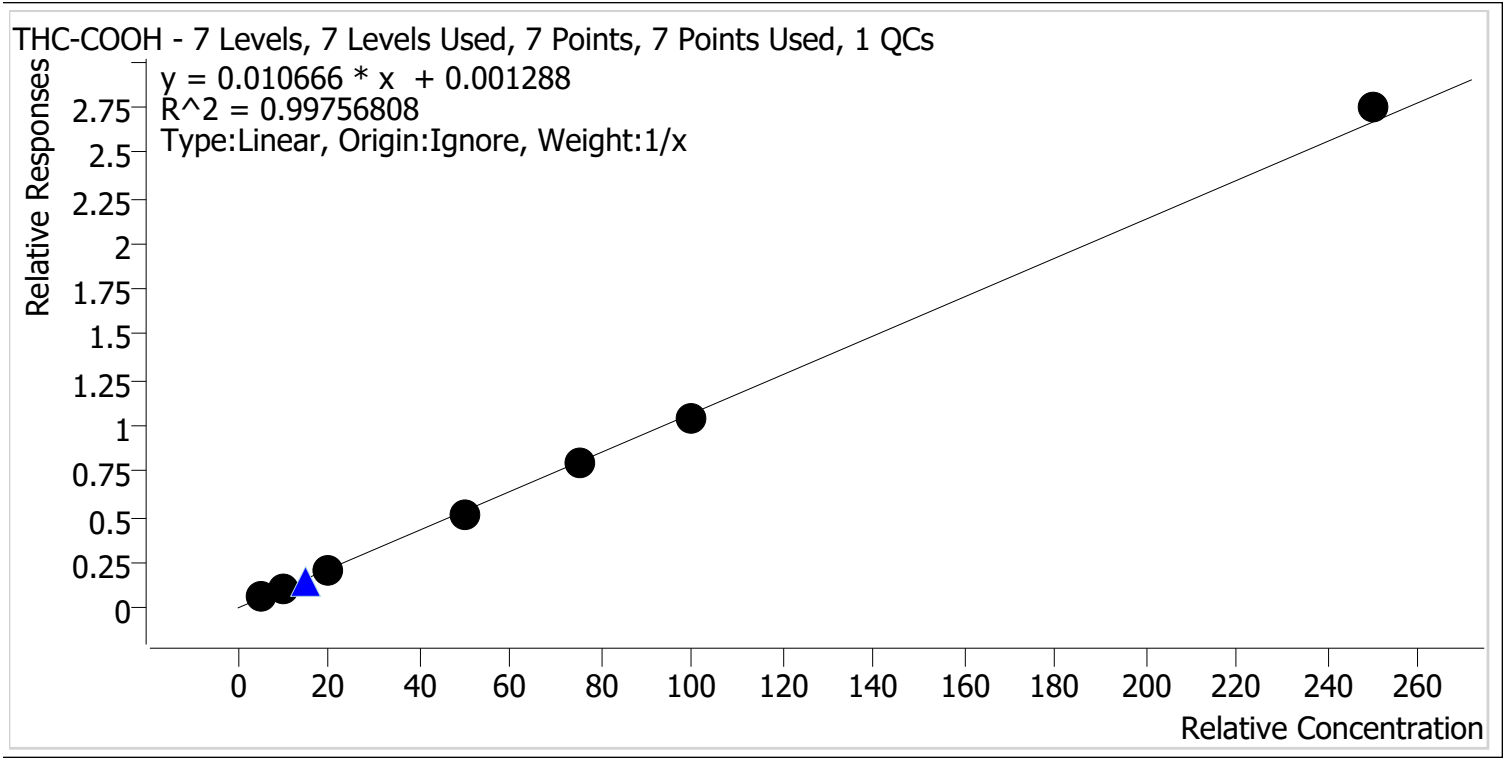
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	109.6
MJ Cal 2	2	✔	3.0	2.9	95.5
MJ Cal 3	3	✔	5.0	4.9	98.8
MJ Cal 4	4	✔	10.0	10.0	100.3
MJ Cal 5	5	✔	25.0	24.1	96.3
MJ Cal 6	6	✔	50.0	48.5	97.1
MJ Cal 7	7	✔	100.0	102.5	102.5

Generated at 8:51 AM on 10/31/2023

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/17/2023 8:21 AM
Analyst Name	ISP\Datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9

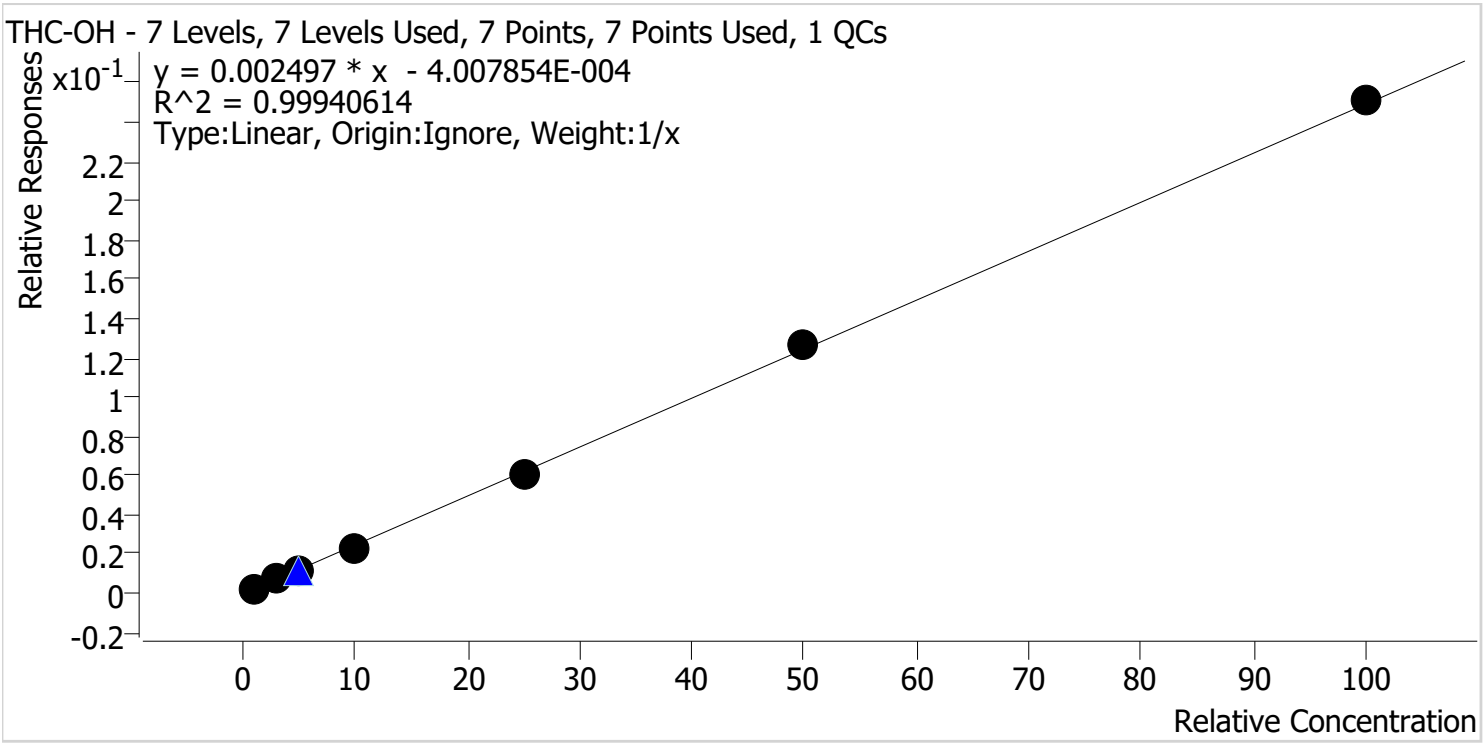


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	6.2	124.1
MJ Cal 2	2	✔	10.0	8.8	88.2
MJ Cal 3	3	✔	20.0	18.8	94.0
MJ Cal 4	4	✔	50.0	47.3	94.6
MJ Cal 5	5	✔	75.0	74.0	98.7
MJ Cal 6	6	✔	100.0	97.5	97.5
MJ Cal 7	7	✔	250.0	257.4	102.9

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/17/2023 8:21 AM
Analyst Name	ISP\Datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	108.7
MJ Cal 2	2	✔	3.0	3.1	103.6
MJ Cal 3	3	✔	5.0	4.7	95.0
MJ Cal 4	4	✔	10.0	9.3	92.9
MJ Cal 5	5	✔	25.0	24.5	97.9
MJ Cal 6	6	✔	50.0	50.6	101.2
MJ Cal 7	7	✔	100.0	100.7	100.7

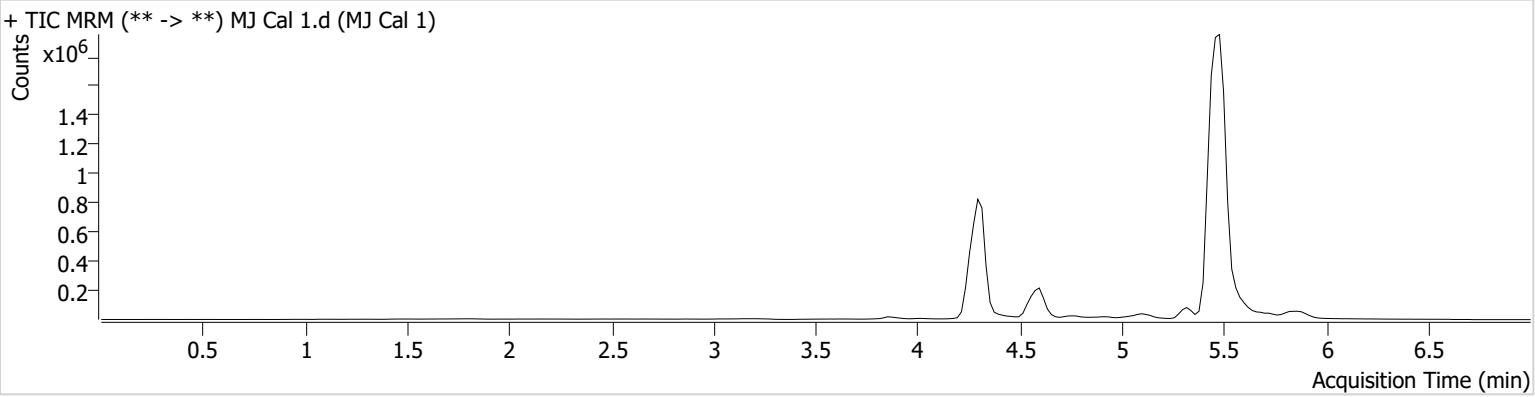
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 11:43:14 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.510	5238	8.13 **Low**	456.8 **High**	12.61	837226	1.0962 ng/ml
THC-COOH	4.616	63294	∞	178.1	∞	937896	6.2065 ng/ml
THC-OH	4.322	9447	47.27	819.5	∞	4083045	1.0873 ng/ml

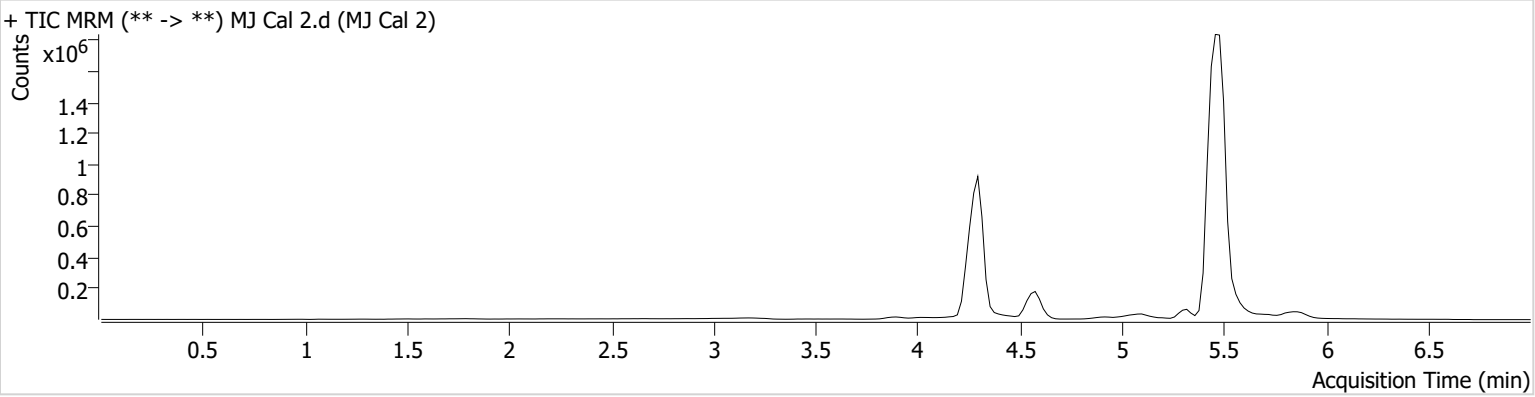
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 11:50:58 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.429	15169	102.97	165.2 **High**	68.20	763244	2.8643 ng/ml
THC-COOH	4.596	69736	227.92	180.9	∞	731661	8.8155 ng/ml
THC-OH	4.302	31248	∞	732.2	∞	4244543	3.1091 ng/ml

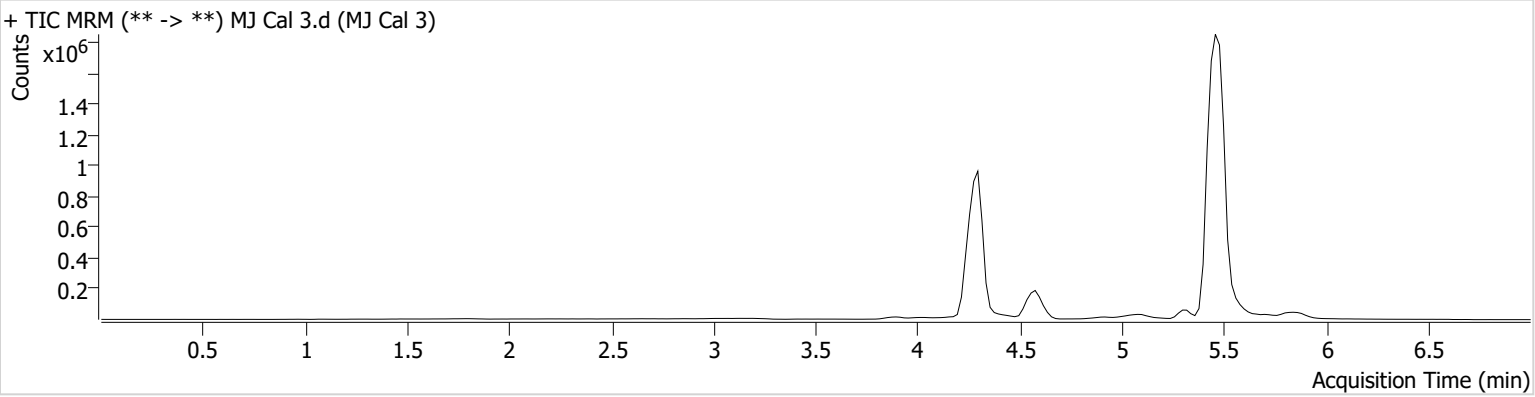
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 11:58:32 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.489	23651	27.06	109.3	15.27	659885	4.9375 ng/ml
THC-COOH	4.596	135304	149.22	167.4	∞	670583	18.7968 ng/ml
THC-OH	4.302	50431	35.94	774.8	13.81	4401268	4.7499 ng/ml

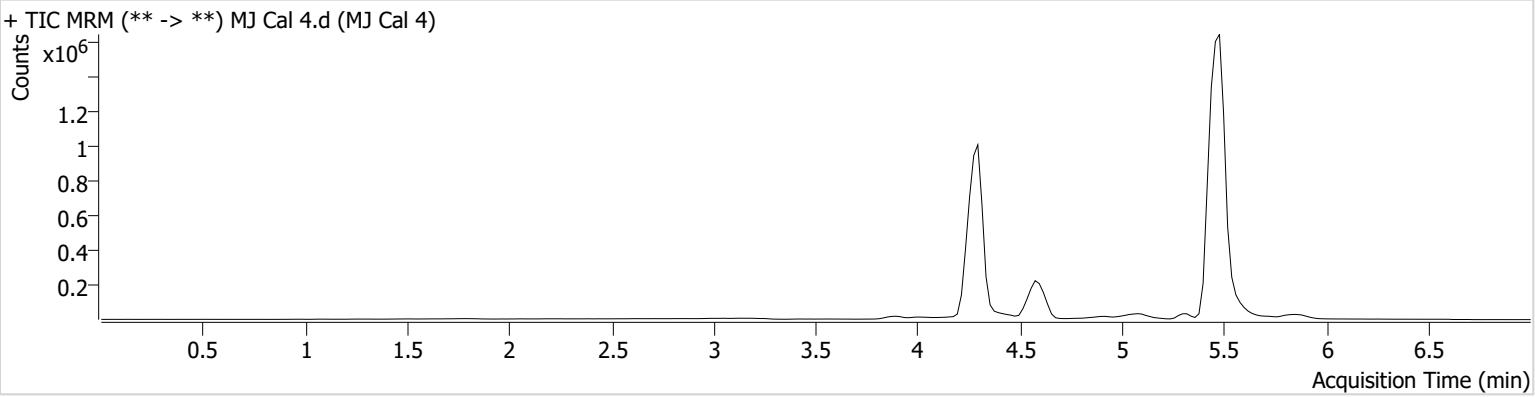
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:06:06 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.429	42966	230.99	62.6 **Low**	∞	572351	10.0311 ng/ml
THC-COOH	4.596	278455	∞	159.2	∞	550545	47.2999 ng/ml
THC-OH	4.302	95448	∞	749.5	38.32	4189432	9.2857 ng/ml

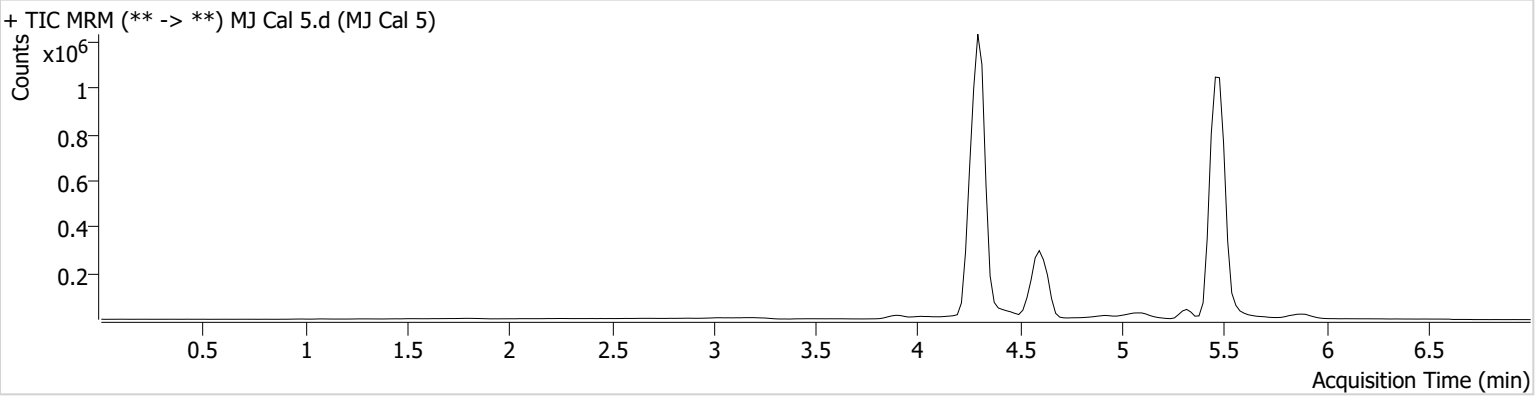
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:13:41 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	60673	103.36	38.8 **Low**	∞	331078	24.0788 ng/ml
THC-COOH	4.616	438127	394.30	157.9	∞	554061	74.0185 ng/ml
THC-OH	4.302	245643	∞	740.4	157.15	4046699	24.4732 ng/ml

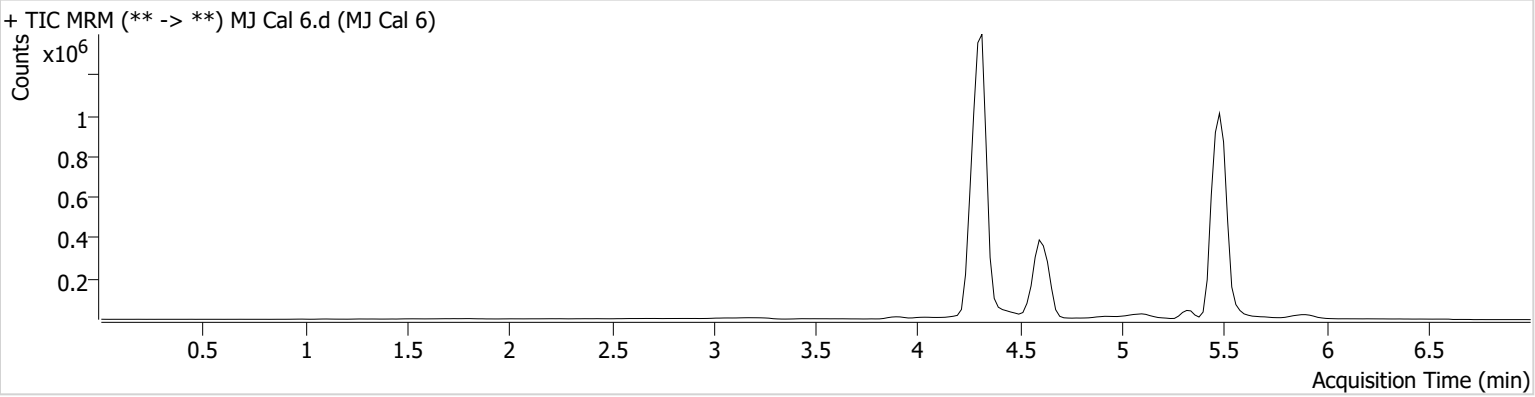
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:21:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	111842	204.58	33.4 **Low**	∞	300950	48.5376 ng/ml
THC-COOH	4.616	606302	∞	155.2	∞	582355	97.4920 ng/ml
THC-OH	4.322	430159	∞	741.5	∞	3416185	50.5938 ng/ml

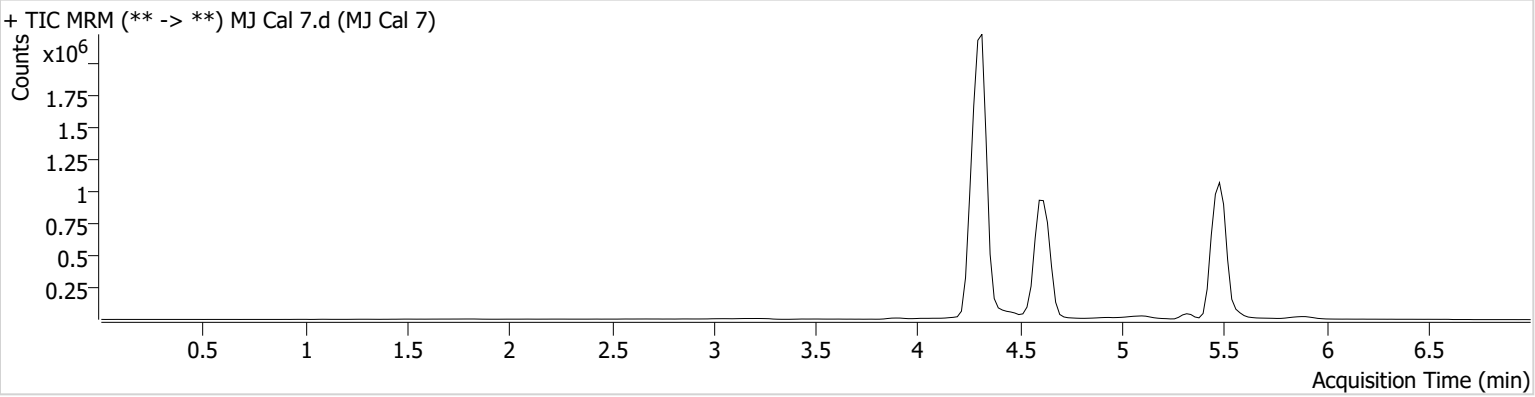
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101623 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/17/2023 8:21:54 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**	Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.
Injection Volume	10		
Acq. Date-Time	10/16/2023 12:28:49 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	240946	∞	28.1 **Low**	∞	306205	102.4545 ng/ml
THC-COOH	4.616	1696585	∞	157.9	∞	617758	257.3707 ng/ml
THC-OH	4.322	916832	∞	753.3	∞	3652402	100.7010 ng/ml