6/29/2022

REVIEWED
By Tamara Salazar at 7:50 am, Jul 05, 2022

Worklist: 6011

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-1071	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2040	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2043	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2092	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2207	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1342	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1342	2	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1365	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1397	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1398	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1401	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1402	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1467	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1476	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1481	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1498	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1499	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1502	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1503	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1506	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1516	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 6011

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2022-1572	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1573	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1590	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1593	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1598	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1636	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1648	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1720	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 06/23/2022
Plate lot#: 211015
Mobile phase A: 10mM Amm Form
Instant Buffer I
Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Retest Date: 04/15/2022
Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol
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. Using a calibrated pipette, pipette **250µL blood** into wells of analytical (standards) plate. **Pipette ID: 42**
☐ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. (SKIPPED PER DEVIATION)
☒ 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** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300µl
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right). *Manifold ID: 067104*
☒ 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.
☒ 16. Add 50µl of 1% HCl in MeOH to all wells in the run and place ACT cover on top of plate prior to drying.
☒ 17. Place on SPE Dry and evaporate to dryness at approx. 35°C.
☒ 18. 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: Per the method, an external control was included in the run since it was after the plate re-test date.

Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

Technical Justification for Analytical Method Deviations: Refer to validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022)

Technical Review

☒ Departure approved
Comments:

☐ Departure Not Approved
Comments:

Approver: Rachel Cutler Date: 2/10/2022
Title: Laboratory Manager

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 2/10/2022

	1	2	3	4	5	6	7	8	9	10	11	12
A		P2022-1342-1	P2022-1476-2	P2022-1572-1	External Ctrl.							
B	Cal	P2022-1342-2	P2022-1481-1	P2022-1573-1								
C	Neg. Ctrl.	P2022-1365-1	P2022-1498-1	P2022-1590-1								
D	M2022-1071-1	P2022-1397-1	P2022-1499-1	P2022-1593-1								
E	M2022-2040-2	P2022-1398-1	P2022-1502-1	P2022-1598-1								
F	M2022-2043-3	P2022-1401-1	P2022-1503-1	P2022-1636-1								
G	M2022-2092-2	P2022-1402-1	P2022-1506-1	P2022-1648-1								
H	M2022-2207-3	P2022-1467-1	P2022-1516-1	P2022-1720-1								

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.

Component	*Source*	*Source Lot Number*	*Expiration Date*
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 µL of methanol external control solution was added to 9800 µL of blood.
Approximately 200 ng/mL of each compound.

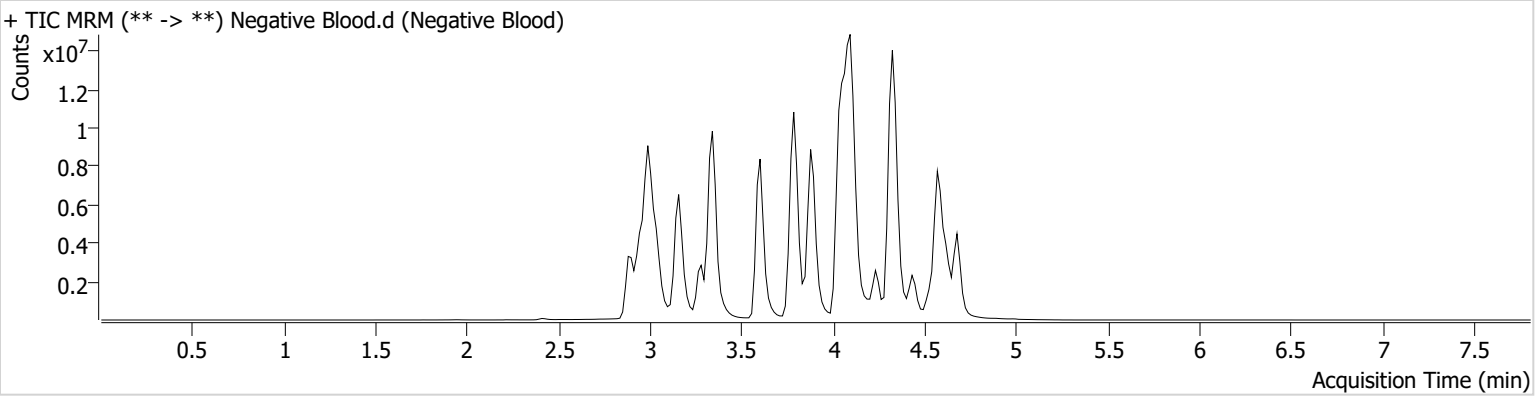
Component	*Source*	*Source Lot Number*
Negative Blood	Lampire	22B52016-2
Methanol External Control Solution		042222
Prepared:	04/22/2022	
Expires:	04/22/2023	
Prepared by:	Celena Shrum	

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update	7/1/2022 11:36:13 AM

Instrument	Falco (069901)	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P2-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/23/2022 10:08:38 PM		
Sample Info.			

Sample Chromatogram

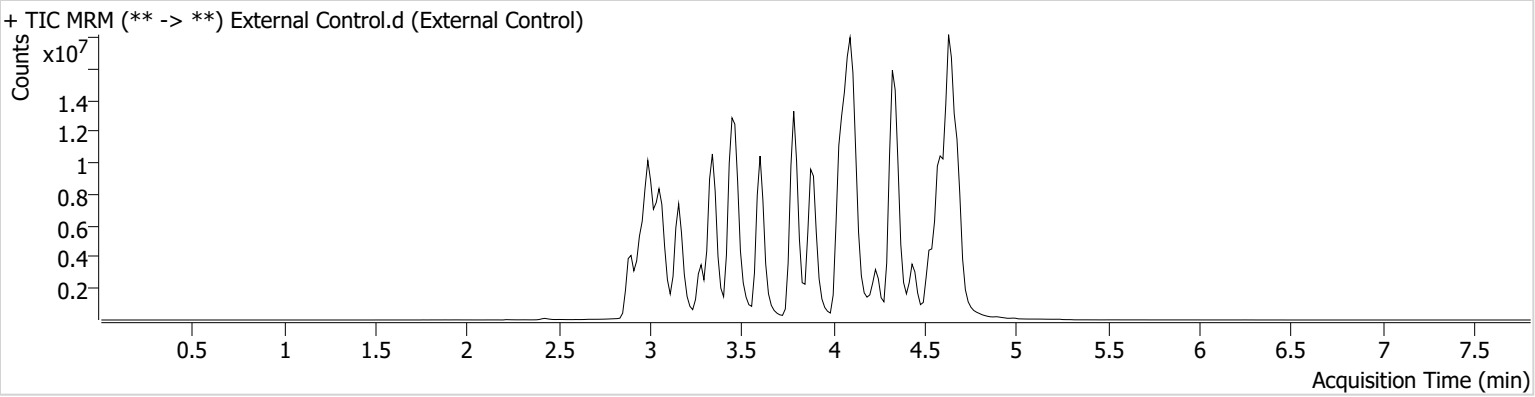


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 7/1/2022 11:36:13 AM

Instrument	Falco (069901)	**Data File**	External Control.d
Type	Sample	**Sample**	External Control
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P2-A5	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/24/2022 2:20:49 AM		
Sample Info.			

Sample Chromatogram



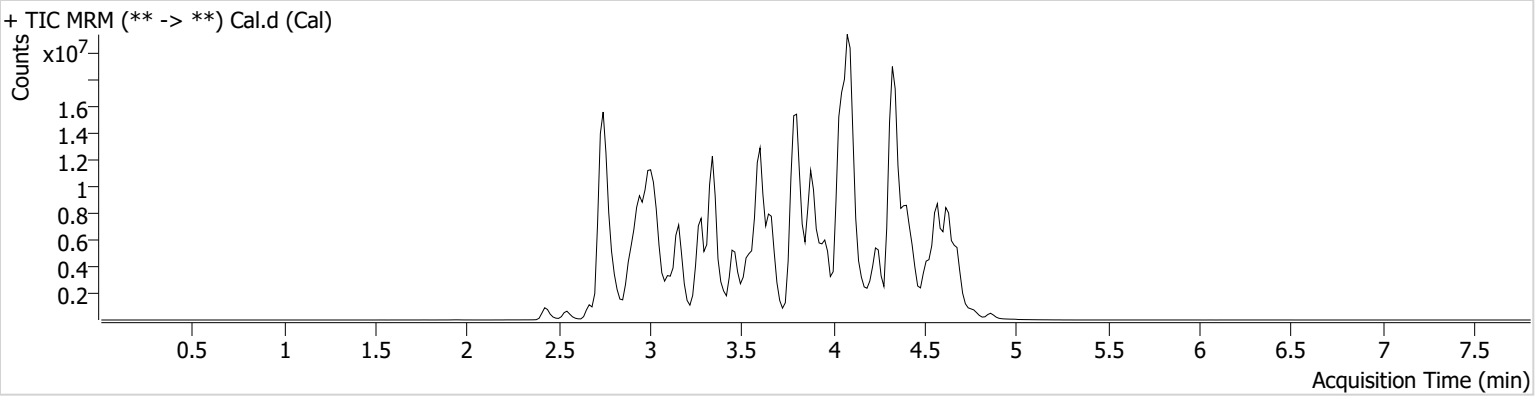
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.651	16522040	905.16	1264.50	23593208	46.4988
Buprenorphine	4.628	8220775	3841849.40	736886.93	3781629	91.7900
Hydrocodone	3.067	11342783	11656138.68	29263.27	9944419	66.9043
Tramadol	3.453	48770944	∞	537.78	46126847	59.0869

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 7/1/2022 11:36:13 AM

Instrument	Falco (069901)	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P2-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/23/2022 10:00:04 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.793	2404644	96.24	636.92	17007515	10.0000
6-MAM	2.956	39331	29966.10	76912.73	1251179	10.0000
7-aminoclonazepam	3.605	536554	8663.31	364.76	2140173	10.0000
7-aminoflunitrazepam	3.805	974672	199.58	301.19	2140173	10.0000
9-Hydroxyrisperidone	3.890	6452232	40185.15	112779.94	25923347	10.0000
Acetyl Fentanyl	3.894	337381	249.40	44621.53	29777503	10.0000
Acetyl Norfentanyl	2.934	319786	419.70	65.52	29777503	10.0000
a-hydroxyalprazolam	4.541	102926	4715.64	2675.89	2140173	10.0000
alpha-hydroxymidazolam	4.616	1209796	458.63	33537.71	2140173	10.0000
Alpha-PHP	3.855	2964256	20205.59	604.67	29777503	10.0000
alpha-PVP	3.580	4178030	1159.30	245.15	10904354	10.0000
Alprazolam	4.636	1405004	393.38	631.13	9329155	10.0000
Amitriptyline	4.439	1402670	128.01	137.69	5108809	10.0000
Amphetamine	2.923	3358174	1367.60	403.10	10904354	10.0000
Benzoylecgonine	3.405	203321	82.44	702.67	343232	10.0000
Brompheniramine	4.049	87467	31717.27	922.34	41974116	10.0000
Buprenorphine	4.612	645047	347443.24	54784.44	2723661	10.0000
Bupropion	3.794	4001368	2725.01	815.57	15872325	10.0000
Carbamazepine	4.257	7130080	587.91	963.58	292123	10.0000
Carisoprodol	4.256	932077	807.09	124.58	5639126	10.0000
Chlordiazepoxide	4.760	301282	231.47	950.73	9329155	10.0000
Chlorpheniramine	3.960	6185977	265.88	9.27	41974116	10.0000
Chlorpromazine	4.634	1127902	4960.13	1499.27	5250465	10.0000
Citalopram	4.079	2679411	5623710.24	516841.60	41974116	10.0000
Clomipramine	4.635	1639632	9421.69	224290.17	41974116	10.0000
Clonazepam	4.465	288626	1140.23	33383.38	9329155	10.0000
Clonazolam	4.385	782347	401767.60	295.94	9329155	10.0000
Clozapine	4.309	2929058	1466.74	1584.03	11640591	10.0000
Cocaethylene	3.802	3969230	2529009.22	10688.40	23073097	10.0000
Cocaine	3.604	3768720	5516952.33	712.17	23073097	10.0000
Codeine	2.884	297410	228085.19	2328.57	7802589	10.0000
Cyclobenzaprine	4.363	1877462	956.95	68.90	5108809	10.0000
Desipramine	4.394	3512520	1097.39	291.27	5108809	10.0000
Dextromethorphan	4.085	1541984	369.61	238.89	8978814	10.0000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.408	1993218	1282662.22	130513.91	8978814	10.0000
Diazepam	4.868	597651	1198.61	1372.31	9329155	10.0000
Dihydrocodeine	2.792	818807	1121.58	812.57	7802589	10.0000
Diphenhydramine	4.054	8380261	16138.31	621.69	41974116	10.0000
Doxepin	4.161	1937869	774.73	122.93	18645022	10.0000
Doxylamine	3.668	8982397	5672044.51	1117.77	8978814	10.0000
Duloxetine	4.345	36284	37349.14	3019.11	573495	10.0000
EDDP	4.100	1061311	228.83	6029.41	2659016	10.0000
Estazolam	4.561	2581648	446.11	12207.31	9329155	10.0000
Etizolam	4.646	216696	70469.44	2468.76	9329155	10.0000
Fentanyl	4.109	243821	397.63	291570.78	16574698	10.0000
Flualprazolam	4.509	544221	264550.06	339554.55	9329155	10.0000
Flunitrazepam	4.589	646026	2289.41	177331.53	9329155	10.0000
Fluoxetine	4.344	1581437	686.77	69.41	1959305	10.0000
Flurazepam	4.199	2425671	9109.19	86217.76	9329155	10.0000
Hydrocodone	3.052	1330224	5360.02	704.52	7802589	10.0000
Hydromorphone	2.551	1053689	15893.26	1251.40	180951	10.0000
Hydroxyzine	4.507	2039401	866.14	802.17	41974116	10.0000
Imipramine	4.408	4516844	1176.05	1301.46	5108809	10.0000
Ketamine	3.579	3127175	986.62	168.85	10012582	10.0000
Lamotrigine	3.623	216012	398.17	141.60	41974116	10.0000
Levamisole	3.012	2040232	9487.46	262.56	23073097	10.0000
Levetiracetam	2.677	1247177	872.01	852.61	41974116	10.0000
Lorazepam	4.464	154782	110.94	92.87	9329155	10.0000
Maprotiline	4.439	963851	61.37	233.69	5108809	10.0000
MDA	3.044	2095087	239.46	736.30	26278810	10.0000
MDEA	3.257	3610999	273.93	559.53	26278810	10.0000
MDMA	3.120	4665019	29589.11	2539.74	26278810	10.0000
Meperidine	3.624	2005567	581.81	313.38	8978814	10.0000
Meprobamate	3.704	731823	1188.32	305.93	5639126	10.0000
Methadone	4.405	4812252	308.69	929.31	2659016	10.0000
Methamphetamine	3.030	5084595	2591.61	231.58	26278810	10.0000
Methocarbamol	3.609	514747	365.70	302.22	2659016	10.0000
Methylphenidate	3.533	9723514	336.52	471.16	19631480	10.0000
Metoprolol	3.468	650673	187.92	12301.88	8978814	10.0000
Midazolam	4.771	467070	878.32	3894.05	9329155	10.0000
Mirtazapine	3.976	3029530	1100872.08	3367.29	8978814	10.0000
Mitragynine	4.214	497985	274651.10	728154.55	8978814	10.0000
Morphine	2.429	186548	465.50	290.33	180951	10.0000
Norbuprenorphine	3.844	71307	39809.61	∞	2723661	10.0000
Nordiazepam	4.717	661867	316868.13	634.97	9329155	10.0000
Norfentanyl	3.364	5690348	7410.08	63.41	29777503	10.0000
Norhydrocodone	2.962	87927	81.45	20.10	180951	10.0000
Norketamine	3.688	650685	357.91	6349.96	10012582	10.0000
Normeperidine	3.626	2142900	3935.22	412.37	41974116	10.0000
Noroxycodone	2.914	1201758	∞	152.03	10012582	10.0000
Nortriptyline	4.425	873116	275.99	315.03	5108809	10.0000
O-desmethyl-tramadol	2.948	7057654	442.39	374.69	41974116	10.0000
O-desmethylvenlafaxine	3.284	1531757	408.10	404931.49	7892429	10.0000
Olanzapine	3.834	531736	344327.97	81.78	292123	10.0000
Oxazepam	4.546	650658	253.29	451.95	2829797	10.0000
Oxycodone	2.958	2100665	954.99	881.24	10012582	10.0000
Oxymorphone	2.425	1660008	211.39	6960.44	180951	10.0000
Paroxetine	4.355	186885	219.15	78063.35	1959305	10.0000
Phenazepam	4.661	675368	461.53	508.16	9329155	10.0000
Phencyclidine	3.932	5278754	165951.38	296.02	8978814	10.0000
Phentermine	3.183	1348754	69.82	37.73	19631480	10.0000
Phenytoin	4.164	431438	2179.53	210.21	292123	10.0000
Primidone	3.503	1616342	5573227.23	428.30	292123	10.0000
Promethazine	4.346	5067917	2964298.11	1131.93	41974116	10.0000

Cal

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Pseudoephedrine	2.754	51600977	16796.98	18384.61	26278810	10.0000
Quetiapine	4.491	2987503	849611.32	2275469.72	34261953	10.0000
Risperidone	4.075	4687236	70528.75	554.63	25923347	10.0000
Sertraline	4.575	364633	363166.03	308395.82	1959305	10.0000
Sufentanil	4.460	167081	118015.72	28885.75	29777503	10.0000
Tapentadol	3.473	4377710	459.76	1256.65	10012582	10.0000
Temazepam	4.683	1627390	478.47	107.14	9329155	10.0000
Topiramate	3.877	39787	20940.52	9035.24	207020	10.0000
Tramadol	3.453	7511004	34.97	50.20	41974116	10.0000
Trazodone	4.614	4412724	814.02	2038.28	18645022	10.0000
Venlafaxine	3.821	6201574	2034.09	322.36	1959305	10.0000
Zaleplon	4.360	1197371	416166.62	462.64	34261953	10.0000
Zolpidem	4.344	6698453	1763.35	1302.61	34261953	10.0000
Zopiclone	4.198	240888	116274.85	113943.29	1091478	10.0000

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

Extraction Date: 06/23/2022
Plate lot#: 220309
Mobile phase A: 10mM Amm Form
Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Retest Date: 09/09/2022
Mobile phase B: 0.1% Formic Acid in MeOH
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. Using a calibrated pipette, add **1000µl blood (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID: #42**
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 4. Pipette **500µL 0.1% formic acid in water blood sample** of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)*** Manifold ID: 067104
☒ 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. *SPE Dry ID: 067103*
☒ 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, 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:

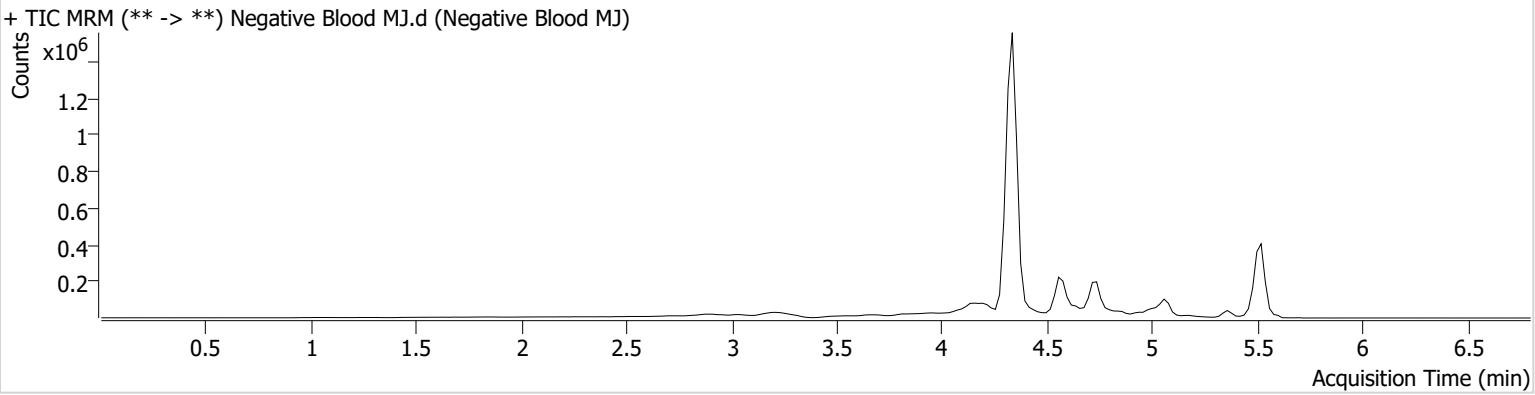
	1	2	3	4	5	6
a	cal 1ng	QC 2	P2022-1342-2	P2022-1481-1	P2022-1573-1	
b	cal 3 ng	Neg. Ctrl.	P2022-1365-1	P2022-1498-1	P2022-1590-1	
c	cal 5 ng	M2022-1071-1	P2022-1397-1	P2022-1499-1	P2022-1593-1	
d	cal 10ng	M2022-2040-2	P2022-1398-1	P2022-1502-1	P2022-1598-1	
e	cal 25 ng	M2022-2043-3	P2022-1401-1	P2022-1503-1	P2022-1636-1	
f	cal 50 ng	M2022-2092-2	P2022-1402-1	P2022-1506-1	P2022-1648-1	
g	cal 100 ng	M2022-2207-3	P2022-1467-1	P2022-1516-1	P2022-1720-1	
h	QC 1	P2022-1342-1	P2022-1476-2	P2022-1572-1		

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update	7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Negative Blood MJ.d
Type	Sample	**Sample**	Negative Blood MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 5:29:29 PM		
Sample Info.			

Sample Chromatogram

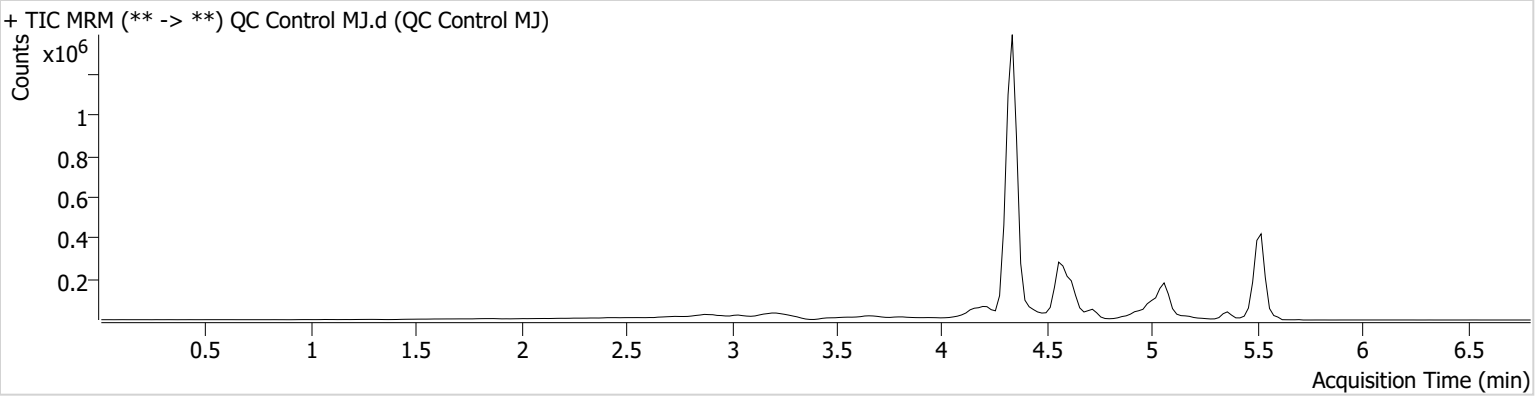


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	QC Control MJ.d
Type	QC	**Sample**	QC Control MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 5:14:22 PM		
Sample Info.			

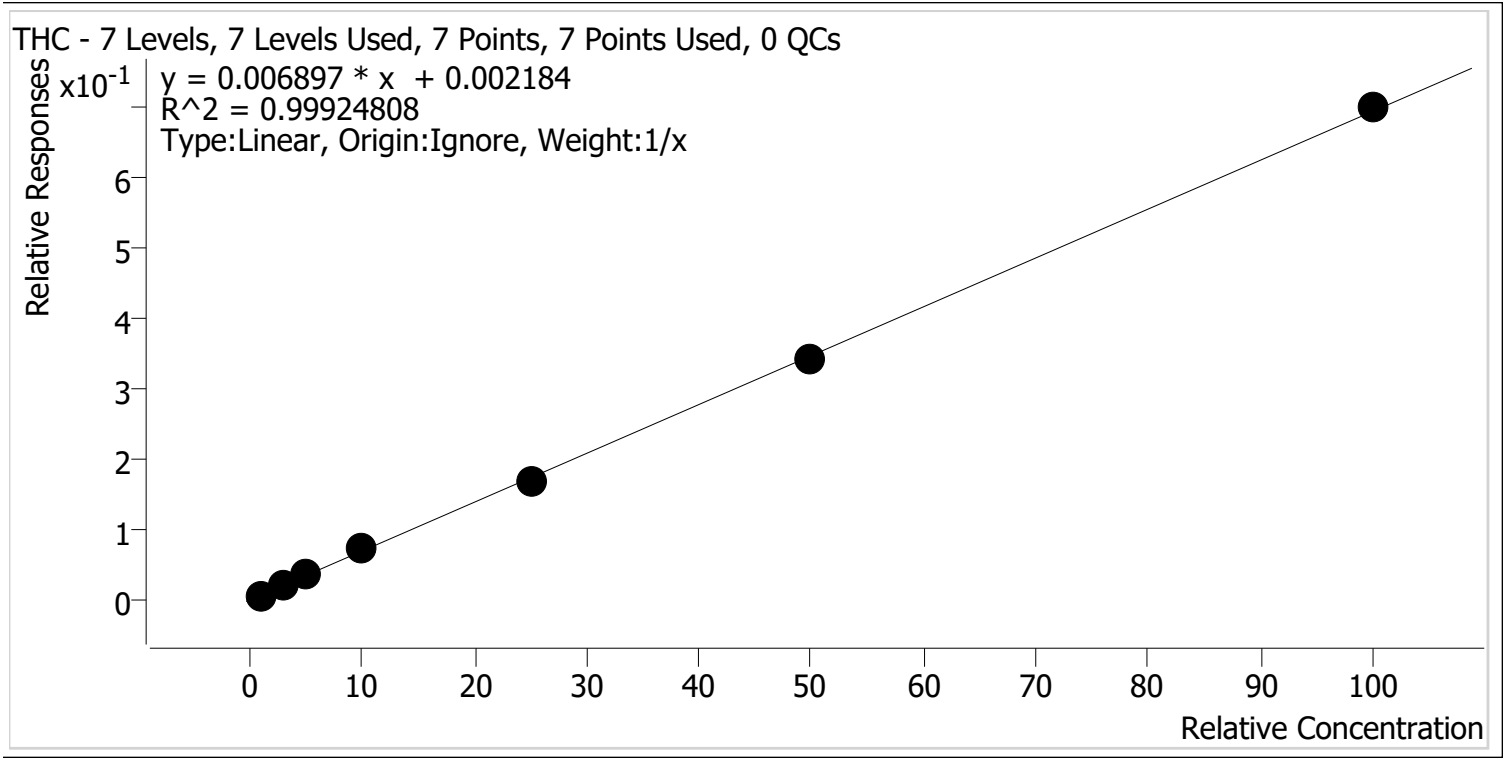
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.510	5174	172855	4.0234	ng/ml
THC-COOH	4.616	163114	915324	14.4105	ng/ml
THC-OH	4.342	33225	4649391	4.4232	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

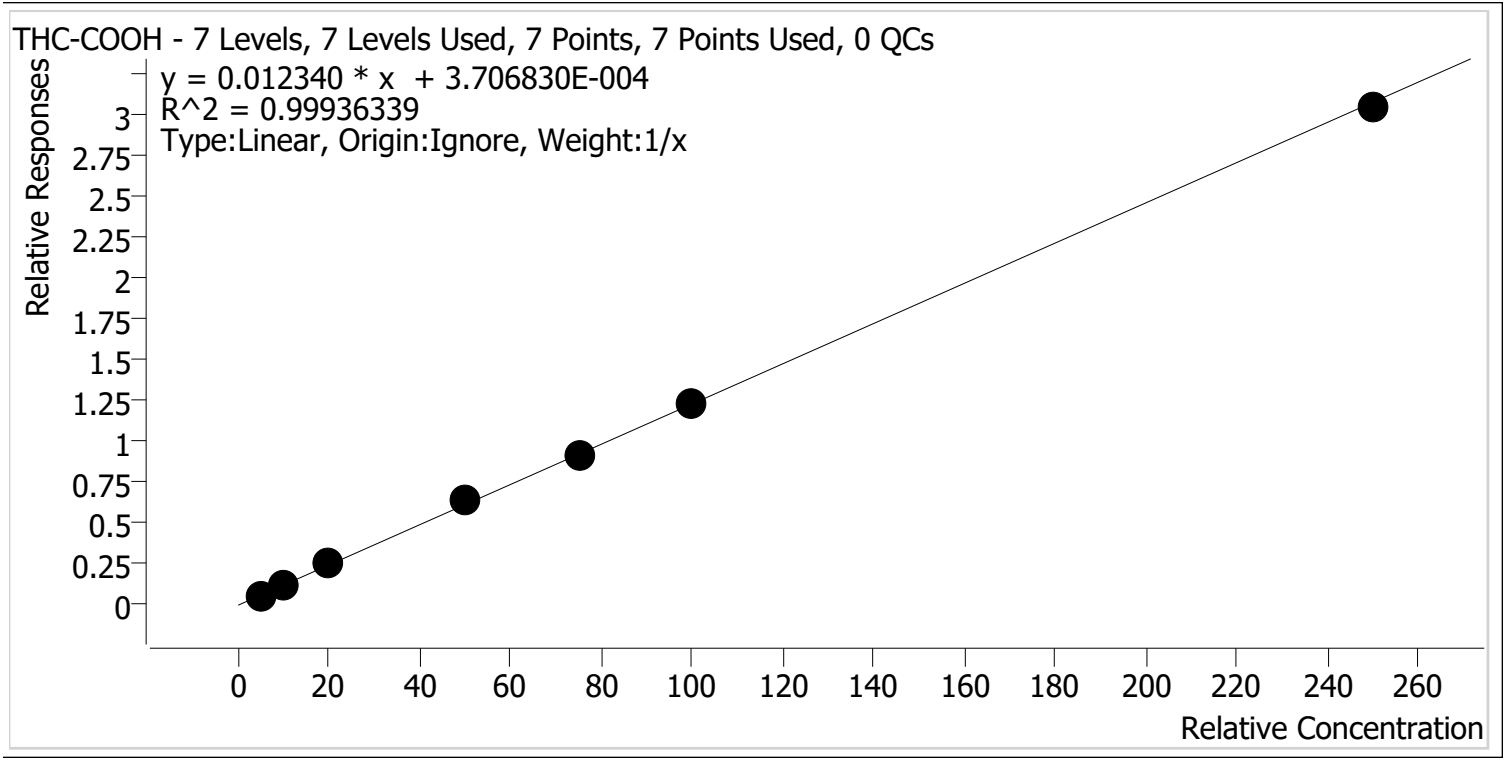
Batch results	D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	7/1/2022 11:37 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✔	1.0	0.9	86.1
Cal 2 MJ	2	✔	3.0	3.2	108.0
Cal 3 MJ	3	✔	5.0	5.3	106.3
Cal 4 MJ	4	✔	10.0	10.4	104.0
Cal 5 MJ	5	✔	25.0	24.0	96.0
Cal 6 MJ	6	✔	50.0	49.5	98.9
Cal 7 MJ	7	✔	100.0	100.7	100.7

AM #26 Cannabinoids Screen Calibration Curve Report

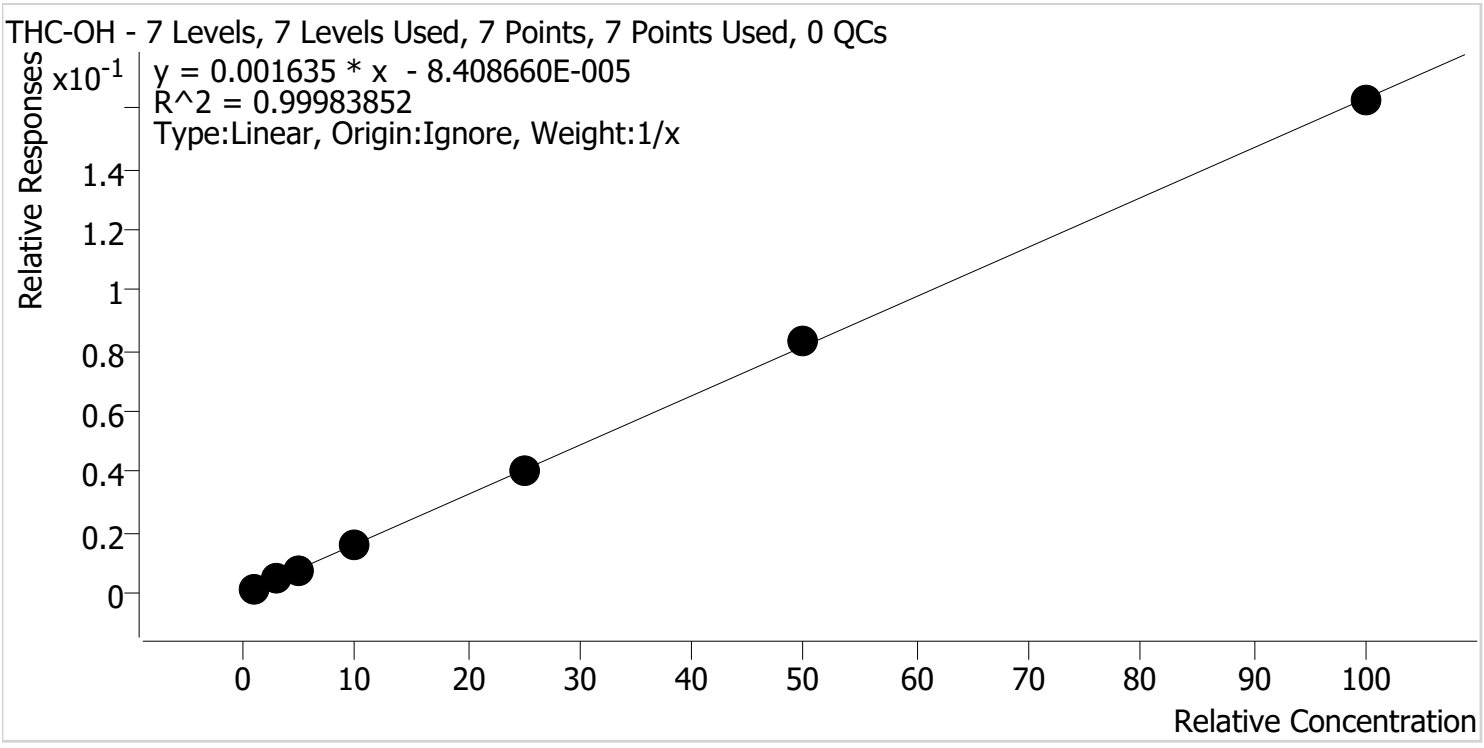
Batch results	D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	7/1/2022 11:37 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✔	5.0	4.7	93.7
Cal 2 MJ	2	✔	10.0	10.0	99.8
Cal 3 MJ	3	✔	20.0	20.4	102.1
Cal 4 MJ	4	✔	50.0	53.0	106.1
Cal 5 MJ	5	✔	75.0	74.5	99.3
Cal 6 MJ	6	✔	100.0	100.1	100.1
Cal 7 MJ	7	✔	250.0	247.3	98.9

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	7/1/2022 11:37 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



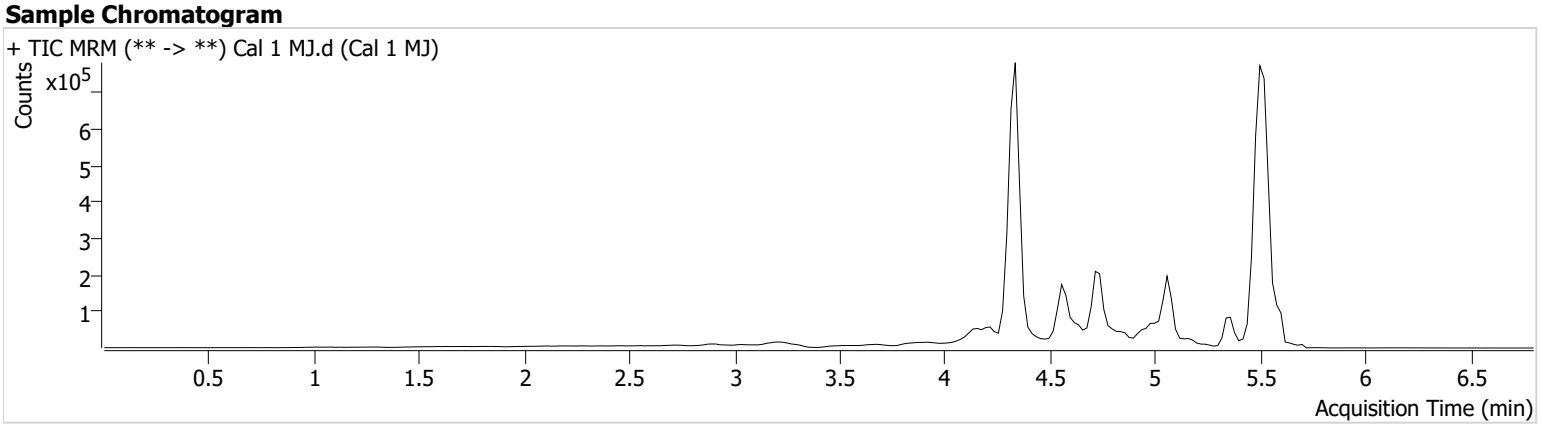
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✔	1.0	1.0	103.3
Cal 2 MJ	2	✔	3.0	3.0	99.7
Cal 3 MJ	3	✔	5.0	4.9	98.9
Cal 4 MJ	4	✔	10.0	9.7	96.8
Cal 5 MJ	5	✔	25.0	25.1	100.3
Cal 6 MJ	6	✔	50.0	50.8	101.5
Cal 7 MJ	7	✔	100.0	99.5	99.5

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 1 MJ.d
Type	Cal	**Sample**	Cal 1 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:21:13 PM		
Sample Info.			

Sample Chromatogram



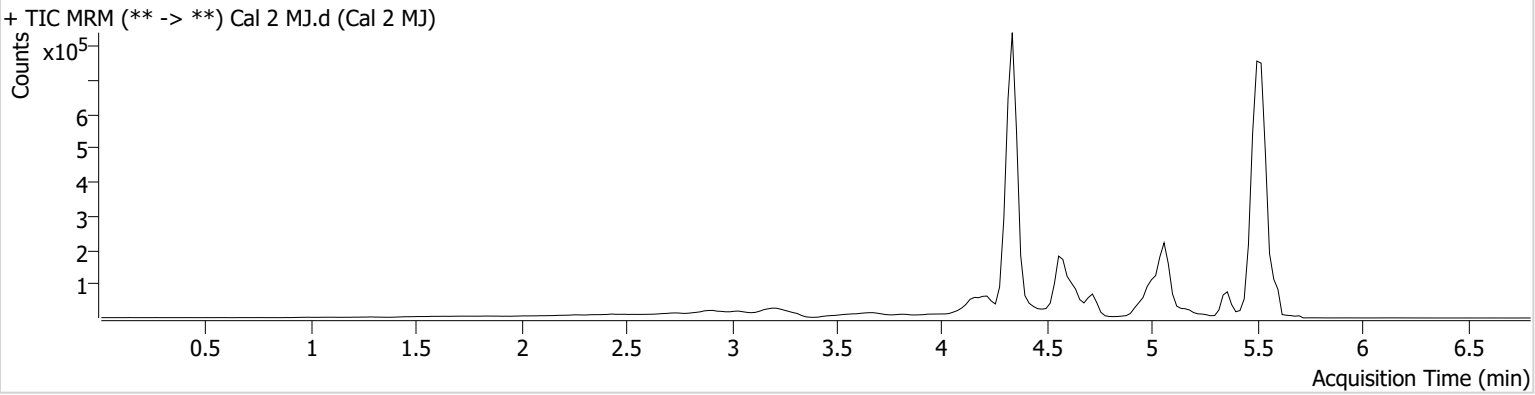
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	5.550	2415	297227	0.8614	ng/ml	Low
THC-COOH	4.596	32080	551222	4.6860	ng/ml	Low
THC-OH	4.342	4485	2794827	1.0332	ng/ml	Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 2 MJ.d
Type	Cal	**Sample**	Cal 2 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:28:57 PM		
Sample Info.			

Sample Chromatogram



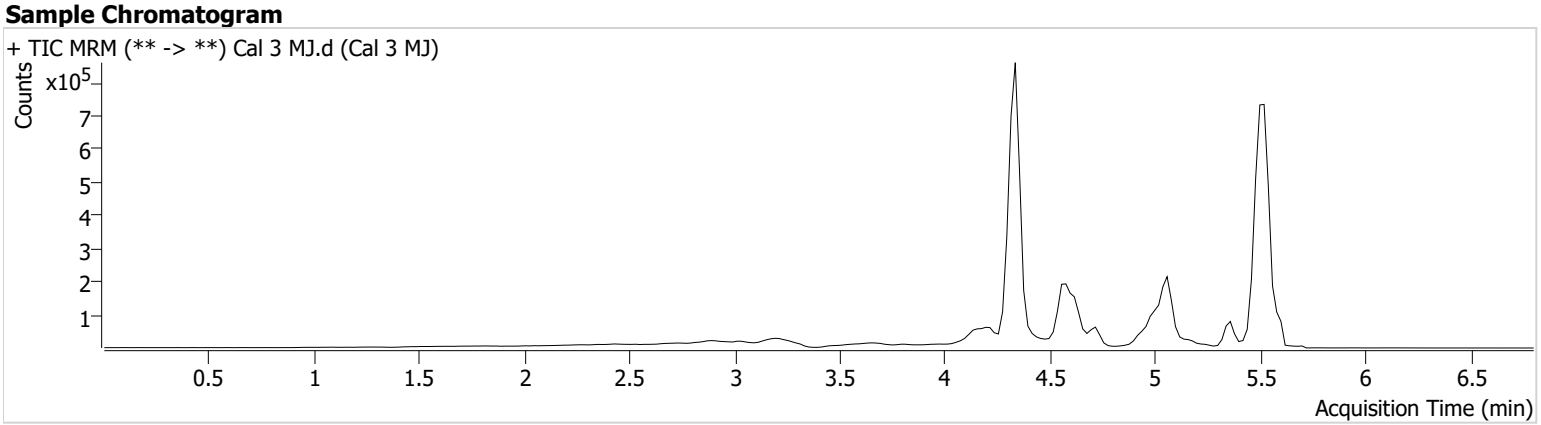
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	5.550	8524	347614	3.2389	ng/ml	
THC-COOH	4.616	72366	586041	9.9762	ng/ml	
THC-OH	4.342	13949	2902419	2.9916	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 3 MJ.d
Type	Cal	**Sample**	Cal 3 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:36:32 PM		
Sample Info.			

Sample Chromatogram



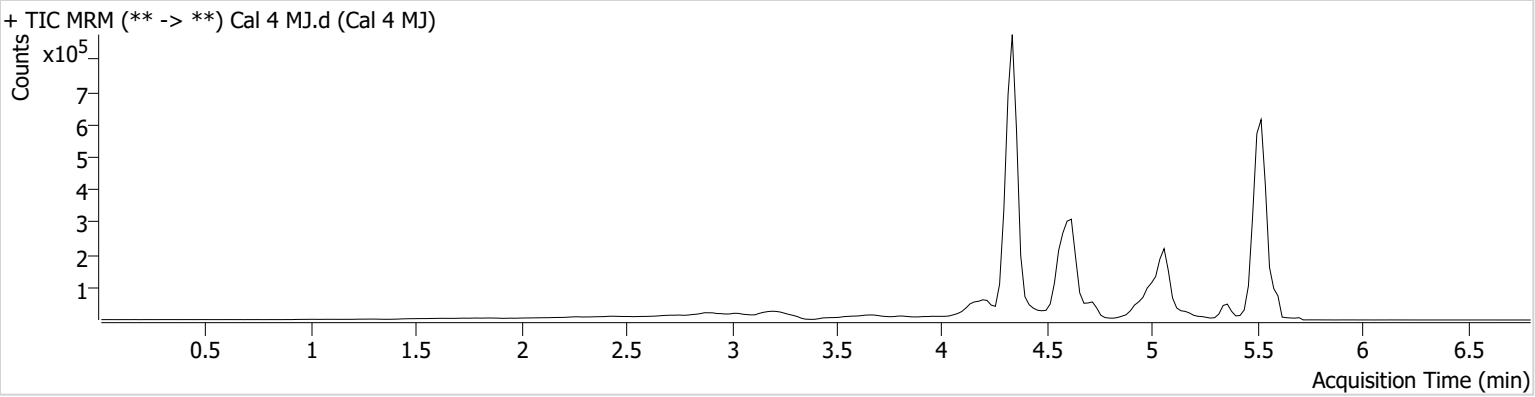
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.550	13351	343811	5.3139	ng/ml
THC-COOH	4.616	148779	589613	20.4176	ng/ml
THC-OH	4.342	23497	2938971	4.9425	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 4 MJ.d
Type	Cal	**Sample**	Cal 4 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:44:06 PM		
Sample Info.			

Sample Chromatogram



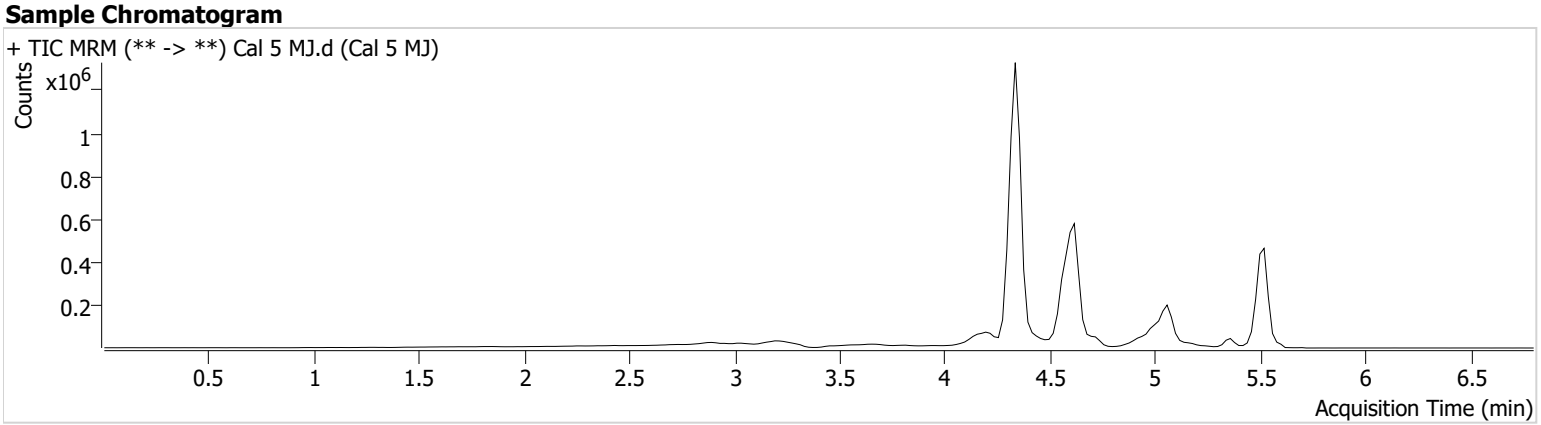
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	20719	280440	10.3954	ng/ml
THC-COOH	4.616	386245	589789	53.0382	ng/ml
THC-OH	4.342	44873	2852440	9.6754	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 5 MJ.d
Type	Cal	**Sample**	Cal 5 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:51:40 PM		
Sample Info.			

Sample Chromatogram



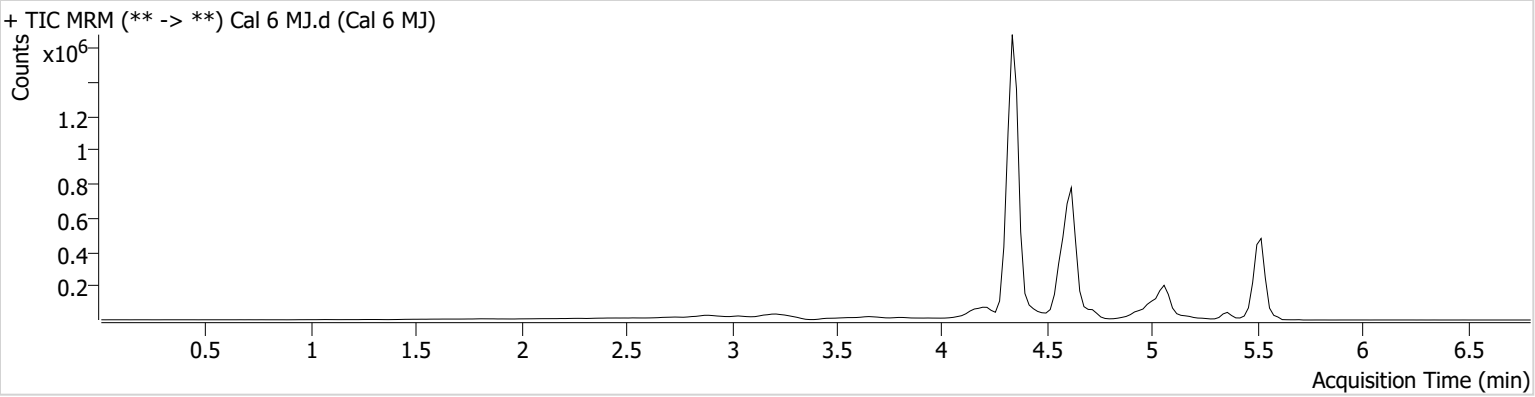
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	30100	179425	24.0067	ng/ml
THC-COOH	4.616	754152	819946	74.5017	ng/ml
THC-OH	4.342	149907	3664416	25.0779	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 6 MJ.d
Type	Cal	**Sample**	Cal 6 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 4:59:14 PM		
Sample Info.			

Sample Chromatogram



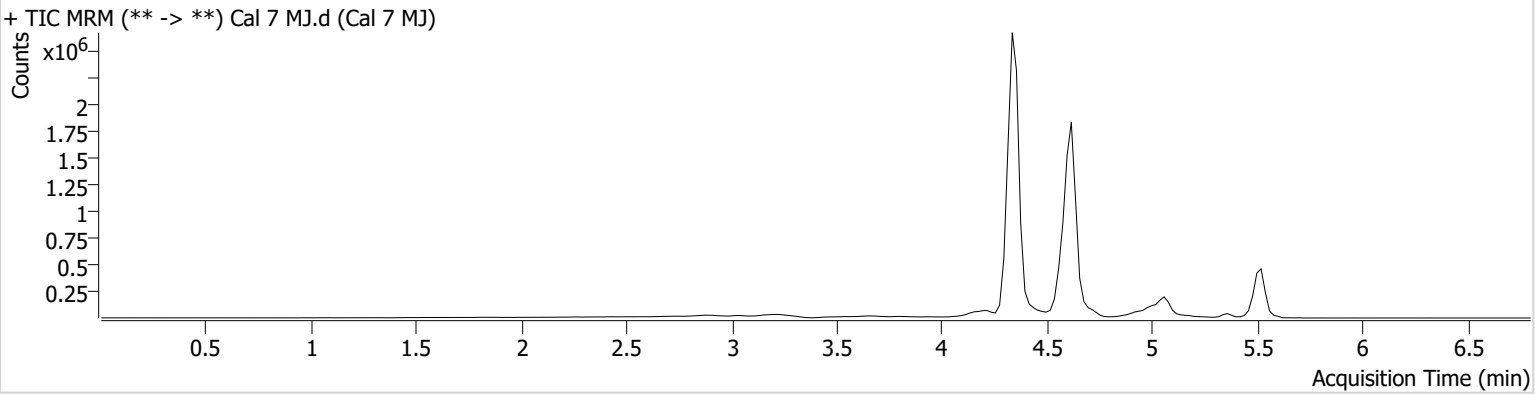
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	62315	181538	49.4537	ng/ml
THC-COOH	4.616	1010853	817996	100.1092	ng/ml
THC-OH	4.342	297969	3594337	50.7665	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\062322 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/1/2022 11:37:36 AM

Instrument	Falco (069901)	**Data File**	Cal 7 MJ.d
Type	Cal	**Sample**	Cal 7 MJ
Acq. Method	AM 26 Celena's.m	**Operator**	Celena Shrum
Sample Position	P1-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/23/2022 5:06:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.510	121184	173889	100.7300	ng/ml
THC-COOH	4.616	2516413	824562	247.2711	ng/ml
THC-OH	4.342	656372	4037184	99.5129	ng/ml