REVIEWED
By Celena Shrum at 1:39 pm, Mar 04, 2022

3/1/2022

TS

Worklist: 5648

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-0549	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-0640	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-0641	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-3763	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-4200	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0033	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0109	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0111	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0123	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0333	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0417	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0418	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0419	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0420	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0459	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0467	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0468	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0469	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0470	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0484	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0492	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 5648

TS

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2022-0513	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0524	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0572	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0594	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-0595	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

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

TS

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

Extraction Date: 02/28/2022 Analyst: Tamara Salazar
Plate lot#: IDP-120-211015 Plate Re-Test Date: 04/15/2022
Mobile phase A: 10mM Amm Form **Mobile phase B:** 0.1% Formic Acid in MeOH
Instant Buffer I Ethyl Acetate LC Methanol
Blank Blood Lot: Lampire 22B52016-2 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS-QQQ ID: 069901

Pre-Analytic:

☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: 42**
☒ 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 5. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: *250ul*
☒ 6. 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).***
☒ 7. Wait 5 minutes.
☒ 8. Add **900uL ethyl acetate.**
☒ 9. Wait 5 minutes.
☒ 10. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 11. Add **900uL ethyl acetate.**
☒ 12. Wait 5 minutes.
☒ 13. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 14. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
☒ 15. 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	P2022-0033-1	P2022-0420-1	P2022-0513-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1 +new compounds	P2022-0109-1	P2022-0459-1	P2022-0524-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Neg Blood	P2022-0111-1	P2022-0467-2	P2022-0572-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	M2022-0549-1	P2022-0123-1	P2022-0468-1	P2022-0594-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	M2022-0640-1	P2022-0333-1	P2022-0469-1	P2022-0595-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	M2022-0641-1	P2022-0417-1	P2022-0470-3	New Compounds only	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	P2020-3763-1	P2022-0418-1	P2022-0484-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	P2021-4200-1	P2022-0419-1	P2022-0492-1	IS + Sample	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

*Wells B1 and F4 ran for method development purposes only.

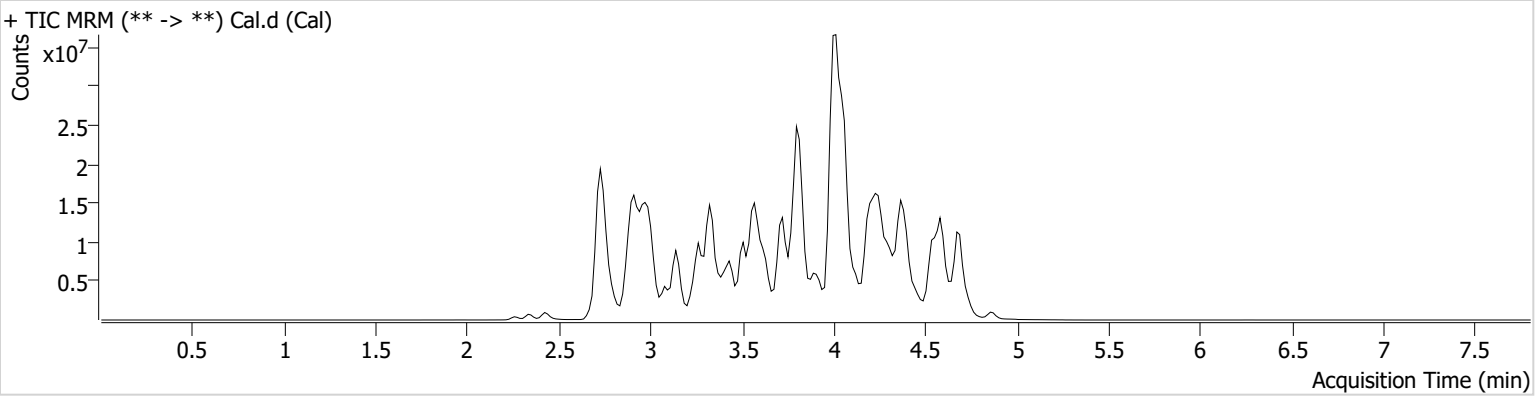
TS

AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/1/2022 9:38:34 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**	
Injection Volume	5		
Acq. Date-Time	2/28/2022 8:20:43 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.877	56262	578.15	23117.36	1727253	10.0000
7-aminoclonazepam	3.602	1339882	384.39	685635.93	5448922	10.0000
7-aminoflunitrazepam	3.801	2150160	198.84	157.46	5448922	10.0000
Acetyl Fentanyl	3.767	453554	382.54	217485.22	36785843	10.0000
Acetyl Norfentanyl	2.917	446469	2188.34	395.17	36785843	10.0000
a-hydroxyalprazolam	4.536	231283	150.52	60.13	5448922	10.0000
alpha-hydroxymidazolam	4.596	2498497	320.81	380.85	5448922	10.0000
Alpha-PHP	3.790	3974027	1250.67	1107.86	36785843	10.0000
alpha-PVP	3.515	6097974	1113.68	1366.89	15224770	10.0000
Alprazolam	4.631	2524818	278.42	277.60	24148616	10.0000
Amitriptyline	4.404	2651024	254.84	235.51	9407640	10.0000
Amphetamine	2.920	5037311	1206.27	1301.03	15224770	10.0000
Benzoylecgonine	3.418	189775	181.32	2034.56	355544	10.0000
Brompheniramine	4.014	141131	420.36	2955.99	47801116	10.0000
Buprenorphine	4.239	777958	73454.84	82590.96	3097851	10.0000
Bupropion	3.729	5829613	1809.22	535.59	23790528	10.0000
Carbamazepine	4.269	10801494	1658.89	786.18	443293	10.0000
Carisoprodol	4.252	1517760	1077.34	206.44	8310092	10.0000
Chlordiazepoxide	4.740	1305646	420.89	1285.52	24148616	10.0000
Chlorpheniramine	3.926	8901274	7991.75	26.71	47801116	10.0000
Citalopram	4.059	3671065	1428.55	905342.50	47801116	10.0000
Clomipramine	4.599	4358985	10001.46	9622.69	47801116	10.0000
Clonazepam	4.476	1190619	1594.75	2490.37	24148616	10.0000
Clonazolam	4.395	1336960	625138.55	297318.55	24148616	10.0000
Cocaethylene	3.768	5838996	6830935.99	27628.45	32212397	10.0000
Cocaine	3.554	5752902	5163.84	339.92	32212397	10.0000
Codeine	2.775	470988	30351.73	4810.36	11431262	10.0000
Cyclobenzaprine	4.328	3942904	873.00	133.05	9407640	10.0000
Desipramine	4.359	7511505	749.52	377.22	9407640	10.0000
Dextromethorphan	4.049	2484603	348.72	918.79	14179494	10.0000
Dextrorphan	3.373	2996403	1788.69	1072456.02	14179494	10.0000
Diazepam	4.864	1329653	816.04	1676.54	24148616	10.0000
Dihydrocodeine	2.728	1064394	576.26	476.68	11431262	10.0000
Diphenhydramine	4.020	11427113	1009.11	1024.32	47801116	10.0000

TS

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.126	3035221	973.30	79.03	27652081	10.0000
Doxylamine	3.633	10323869	215.68	4578.87	14179494	10.0000
EDDP	4.065	1711773	383.69	221.42	4163963	10.0000
Estazolam	4.556	4926265	1669.25	686.46	24148616	10.0000
Etizolam	4.641	308574	134848.65	996111.49	24148616	10.0000
Fentanyl	3.996	302364	392.64	138160.12	22834616	10.0000
Flualprazolam	4.504	987781	744329.77	1200567.89	24148616	10.0000
Flunitrazepam	4.584	2124910	397.67	842.16	24148616	10.0000
Fluoxetine	4.324	4192986	2259127.01	187.22	7382538	10.0000
Flurazepam	4.102	3529438	538908.10	215004.80	24148616	10.0000
Hydrocodone	2.958	1728797	855.20	511.14	11431262	10.0000
Hydromorphone	2.427	1561850	1857.44	2885.23	324615	10.0000
Imipramine	4.373	8096546	2095.14	1193.79	9407640	10.0000
Ketamine	3.391	4300838	6228.94	533.02	14176165	10.0000
Lamotrigine	3.558	340561	365.46	16995.31	47801116	10.0000
Levamisole	2.933	3535061	5378.52	615.63	32212397	10.0000
Levetiracetam	2.690	1634409	912.39	971.83	47801116	10.0000
Lorazepam	4.460	386018	164.53	116.36	24148616	10.0000
Maprotiline	4.405	1961430	260.83	235.73	9407640	10.0000
MDA	3.026	4090017	645.75	63.28	35087842	10.0000
MDEA	3.239	5899135	795.64	1057.09	35087842	10.0000
MDMA	3.086	7307140	1676.14	515.53	35087842	10.0000
Meperidine	3.589	2993492	3527.59	1439.06	14179494	10.0000
Meprobamate	3.700	1030663	416.25	271.87	8310092	10.0000
Methadone	4.369	7158565	651.25	388.98	4163963	10.0000
Methamphetamine	3.012	8253861	524.49	463.61	35087842	10.0000
Methocarbamol	3.606	373383	134.22	102.47	4163963	10.0000
Methylphenidate	3.514	13011811	673.89	294.09	25218601	10.0000
Metoprolol	3.434	818625	587.58	797.45	14179494	10.0000
Midazolam	4.704	836435	281.30	723.96	24148616	10.0000
Mirtazapine	3.741	3628027	2784.48	3679.49	14179494	10.0000
Mitragynine	4.117	638401	465971.66	946809.72	14179494	10.0000
Morphine	2.261	315933	381.95	346.34	324615	10.0000
Norbuprenorphine	3.825	110553	171940.48	190.71	3097851	10.0000
Nordiazepam	4.727	1830756	45686.39	428.13	24148616	10.0000
Norfentanyl	3.345	8677914	24836.75	3044.92	36785843	10.0000
Norhydrocodone	2.929	127862	93.97	48.62	324615	10.0000
Norketamine	3.423	952260	275.66	21225.59	14176165	10.0000
Normeperidine	3.607	3171207	∞	663.19	47801116	10.0000
Noroxycodone	2.896	1174839	161.35	205.75	14176165	10.0000
Nortriptyline	4.406	2390481	462.28	536.61	9407640	10.0000
O-desmethyl-tramadol	2.930	8953620	1119.63	4128.89	47801116	10.0000
Olanzapine	3.661	2268790	59344.87	4951.48	443293	10.0000
Oxazepam	4.541	2090759	406.09	130.33	9091030	10.0000
Oxycodone	2.909	2937916	852.91	2597.71	14176165	10.0000
Oxymorphone	2.332	1529854	1021.90	19394.09	324615	10.0000
Paroxetine	4.320	476108	1870.89	115675.40	7382538	10.0000
Phenazepam	4.672	2532967	172795.46	1284.07	24148616	10.0000
Phencyclidine	3.898	6971639	1546.26	1078.92	14179494	10.0000
Phentermine	3.165	1939600	149.94	27.45	25218601	10.0000
Phenytoin	4.160	758386	2755.88	195.83	443293	10.0000
Promethazine	4.295	9751047	16834.52	793.84	47801116	10.0000
Pseudoephedrine	2.736	60749991	744.40	1025.47	35087842	10.0000
Quetiapine	4.303	4402452	413782.80	782.74	38878928	10.0000
Sertraline	4.539	1348074	12312.28	1200.65	7382538	10.0000
Sufentanil	4.271	272880	65504.67	247.42	36785843	10.0000
Tapentadol	3.454	5995609	791.47	363.07	14176165	10.0000
Temazepam	4.694	4484342	1971.75	168.62	24148616	10.0000
Tramadol	3.435	10836536	1229.87	59.38	47801116	10.0000
Trazodone	4.257	7140677	538.77	872.55	27652081	10.0000

Cal

TS

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.802	7196210	14528.29	439.79	7382538	10.0000
Zaleplon	4.355	2058604	634.72	846.94	38878928	10.0000
Zolpidem	4.015	8217093	1391.55	1415.63	38878928	10.0000
Zopiclone	3.871	483859	256809.66	44426.79	2215458	10.0000

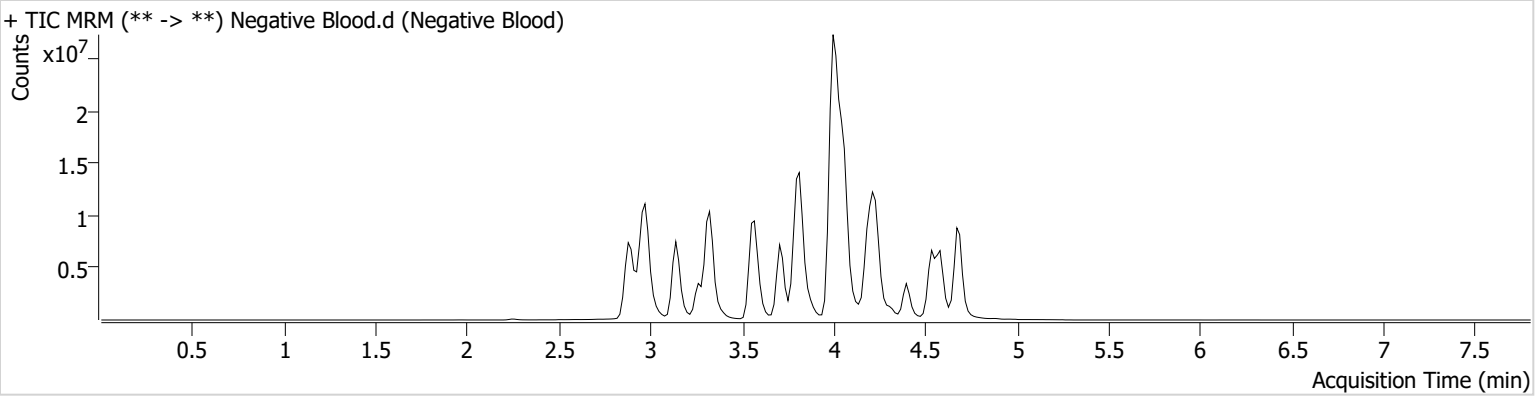
TS

AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 3/1/2022 9:38:34 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-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/28/2022 8:29:17 PM		
Sample Info.			

Sample Chromatogram



TS

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

Extraction Date: 02/28/2022 Analyst: Tamara Salazar
Plate lot#: IDP-108-3-211018 Plate Re-Test Date: 04-18-2022
Mobile phase A: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile
Blank Blood Lot: Lampire 22B52016-2 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS-QQQ ID: 069901

Pre-Analytic:

☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Using a calibrated pipette, add **1000µl blood and urine (if applicable) (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, 500 µL saturated phosphate buffer in urine** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate. Amount transferred: 750uL
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)***
☒ 8. Wait 5 minutes.
☒ 9. Add **2.25mL MTBE. (*Add in 3 increments of 750uL)***
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **2.25mL Hexane. (*Add in 3 increments of 750uL)***
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
☒ 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
☒ 2. Make any necessary integration changes, 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:
Calibrator 6 did not inject properly. The calibrator was reinjected without issue.
Run stopped on case sample P2022-0033 due to a leak. The leak was fixed and the run continued without issue.
Calibrator 4 dropped for THC-OH due to linearity.

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	P2022-0109-1	P2022-0459-1	P2022-0524-1	IS + QC_1
B	IS + Cal. 2	Neg Blood	P2022-0111-1	P2022-0467-2	P2022-0572-1	IS + Cal. 7
C	IS + Cal. 3	M2022-0549-1	P2022-0123-1*	P2022-0468-1	P2022-0594-1	IS + Cal. 6
D	IS + Cal. 4	M2022-0640-1	P2022-0333-1	P2022-0469-1	P2022-0595-1	IS + Cal. 5
E	IS + Cal. 5	M2022-0641-1	P2022-0417-1	P2022-0470-3	P2022-0123-1	IS + Cal. 4
F	IS + Cal. 6	P2020-3763-1	P2022-0418-1	P2022-0484-1	P2022-0513-1	IS + Cal. 3
G	IS + Cal. 7	P2021-4200-1	P2022-0419-1	P2022-0492-1	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2022-0033-1	P2022-0420-1	P2022-0513-1*	IS + QC_1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

*Sample moved during step 6 of the extraction due to a blood clot.

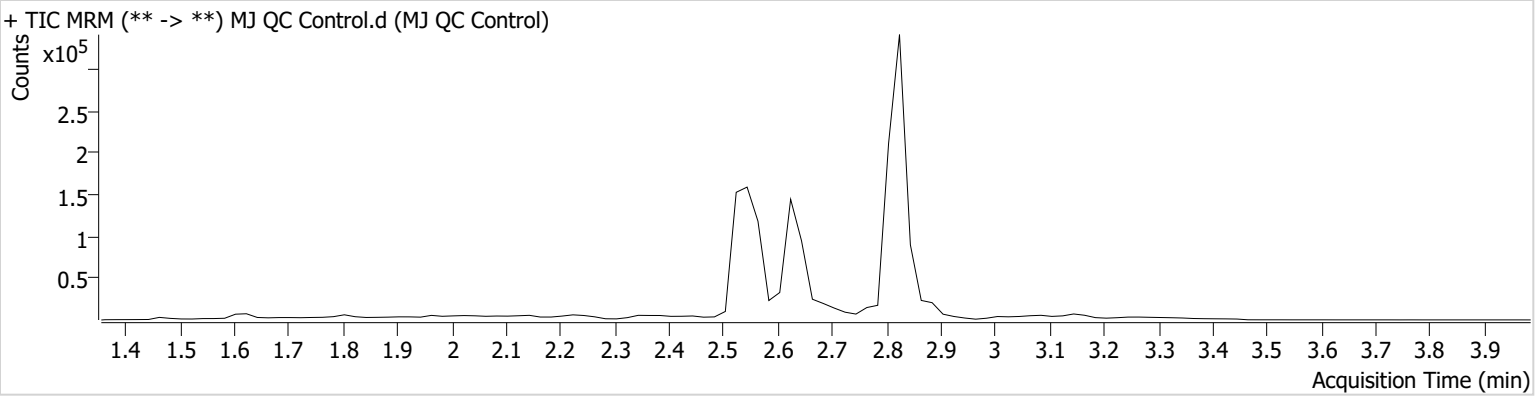
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:42:17 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	1326	24737	6.6547	ng/ml
THC-COOH	2.647	44006	196977	16.4296	ng/ml
THC-OH	2.554	7953	492386	7.6575	ng/ml

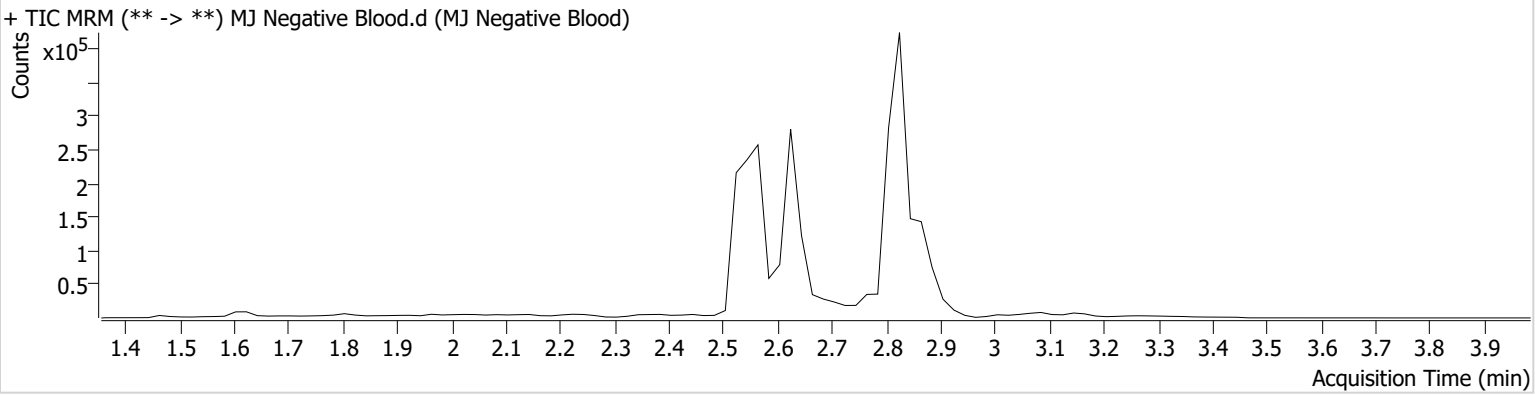
TS

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update	3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:55:26 PM		
Sample Info.			

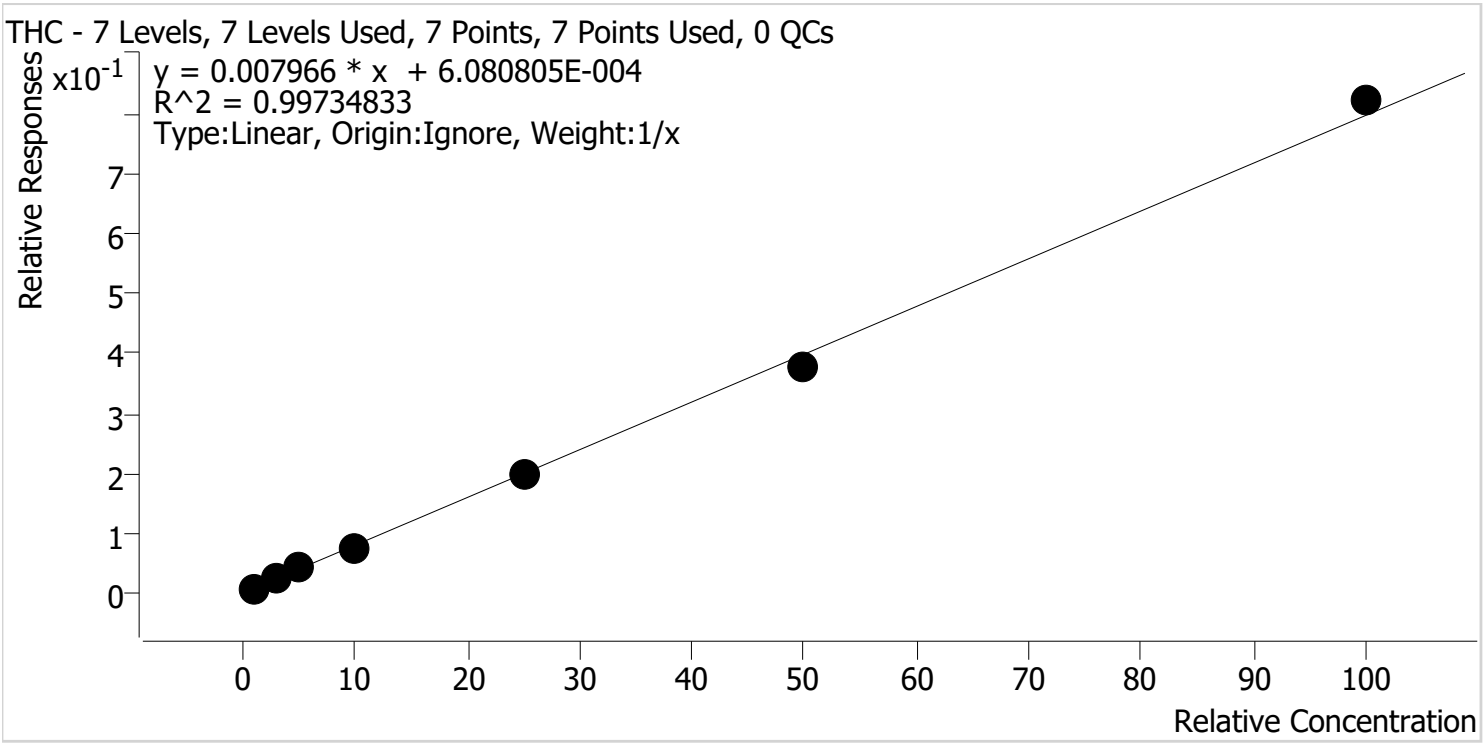
Sample Chromatogram



TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	3/3/2022 2:38 PM
Analyst Name	ISP\Datastor
Analyte	THC
Internal Standard	THC-D3

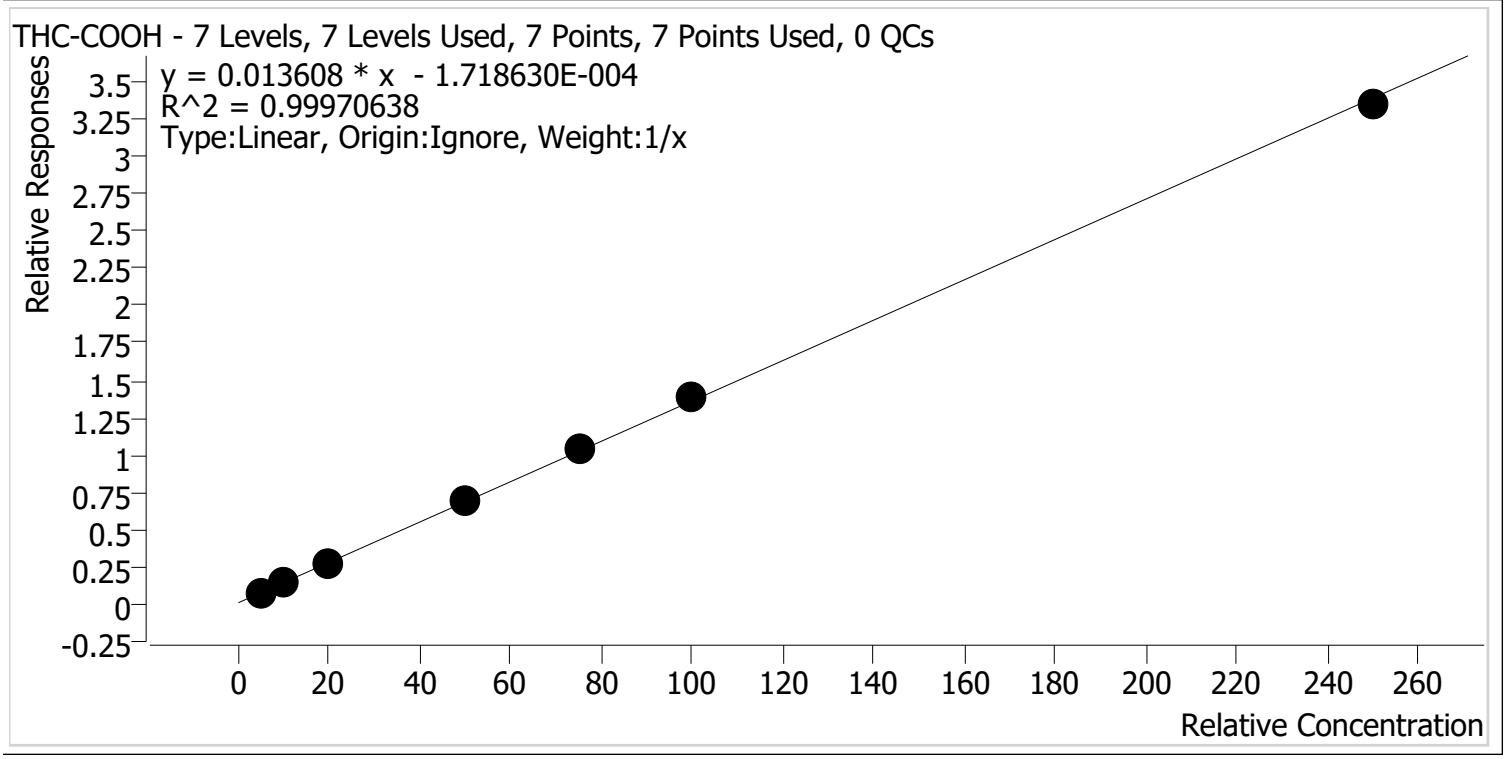


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	0.9	88.9
MJ Cal 2	2	✔	3.0	3.2	107.8
MJ Cal 3	3	✔	5.0	5.7	114.8
MJ Cal 4	4	✔	10.0	9.3	92.9
MJ Cal 5	5	✔	25.0	24.5	97.9
MJ Cal 6_r	6	✔	50.0	47.3	94.6
MJ Cal 7	7	✔	100.0	103.1	103.1

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	3/3/2022 2:38 PM
Analyst Name	ISP\Datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9

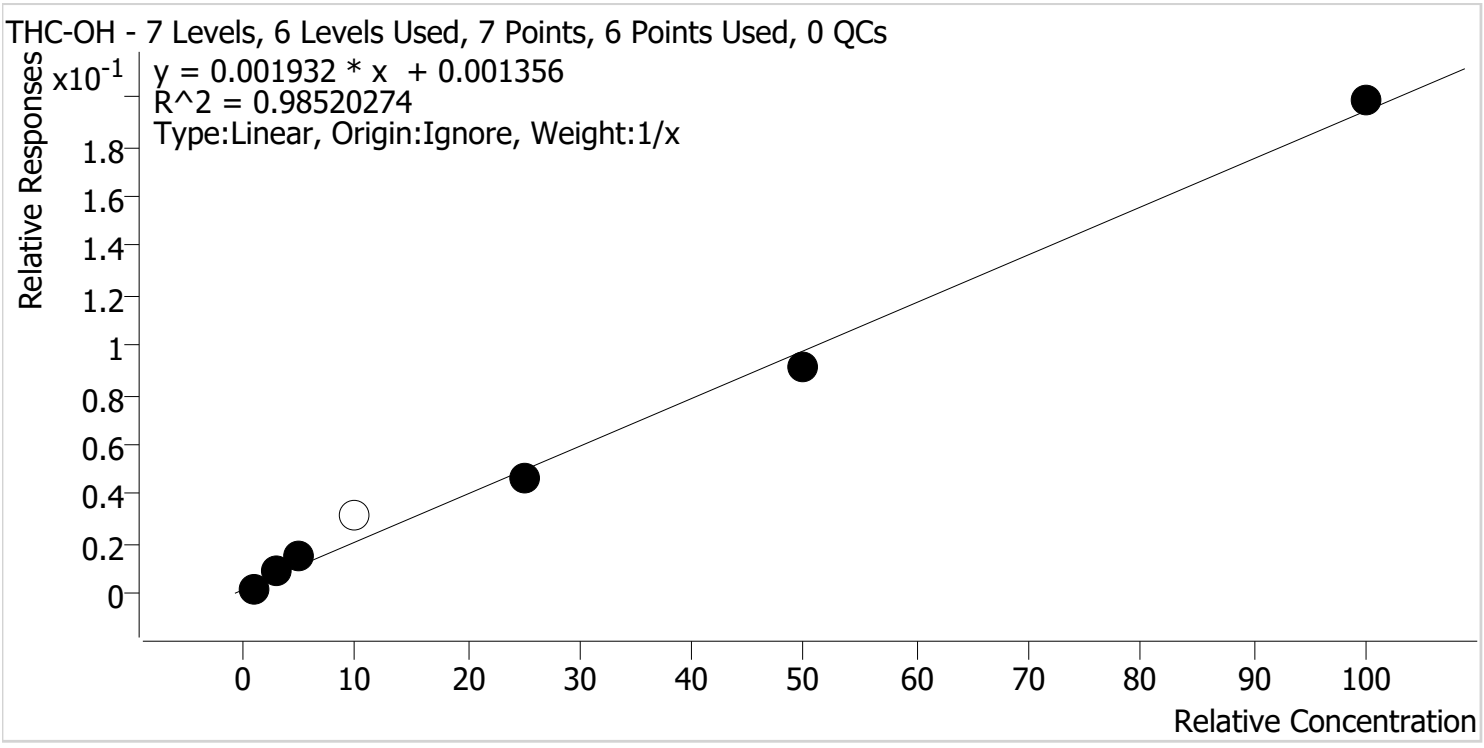


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	5.0	99.5
MJ Cal 2	2	✔	10.0	9.8	98.0
MJ Cal 3	3	✔	20.0	19.8	99.0
MJ Cal 4	4	✔	50.0	50.8	101.6
MJ Cal 5	5	✔	75.0	75.8	101.1
MJ Cal 6_r	6	✔	100.0	102.1	102.1
MJ Cal 7	7	✔	250.0	246.7	98.7

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	3/3/2022 2:38 PM
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	0.3	25.7
MJ Cal 2	2	✔	3.0	4.2	139.0
MJ Cal 3	3	✔	5.0	7.3	146.0
MJ Cal 4	4	✗	10.0	15.5	154.9
MJ Cal 5	5	✔	25.0	23.5	93.8
MJ Cal 6_r	6	✔	50.0	46.7	93.4
MJ Cal 7	7	✔	100.0	102.1	102.1

Generated at 2:39 PM on 3/3/2022

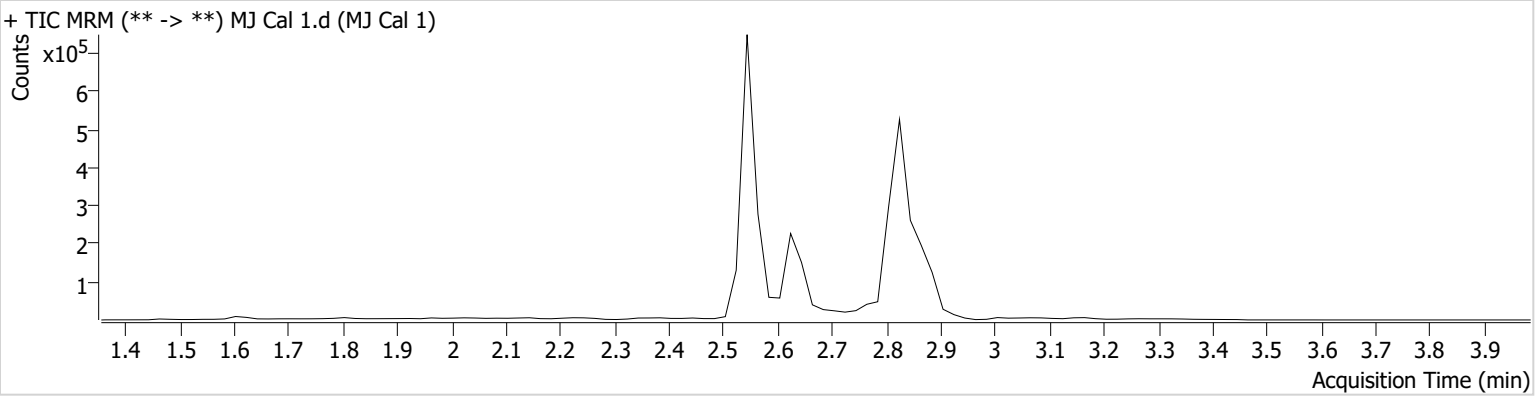
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 2:56:12 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	2310	300226	0.8894	ng/ml	**Low**
THC-COOH	2.647	26739	395838	4.9766	ng/ml	**Low**
THC-OH	2.554	2684	1449111	0.2568	ng/ml	**Low**

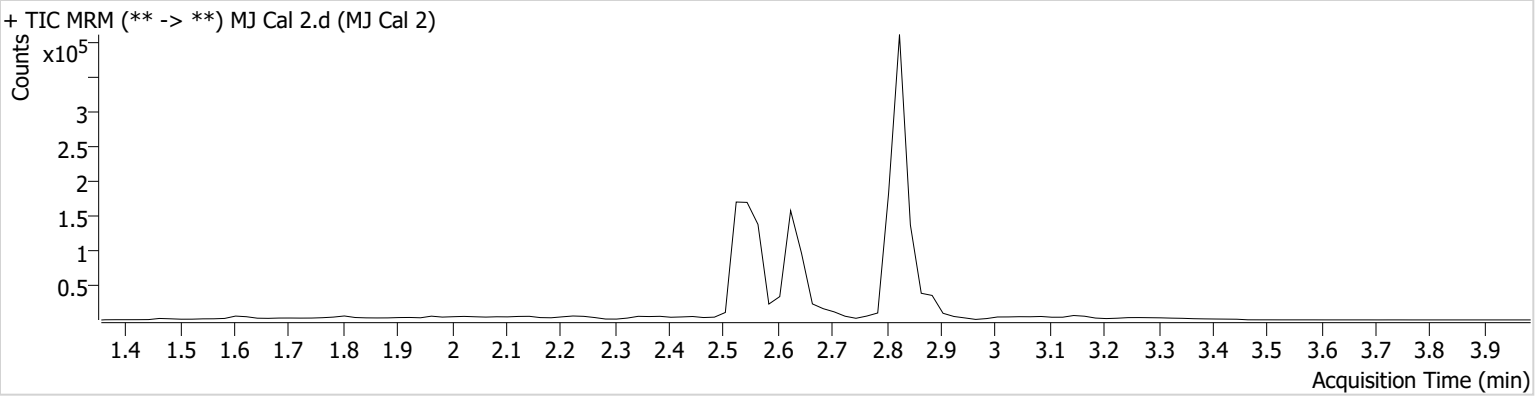
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:02:56 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.899	1049	39767	3.2350 ng/ml
THC-COOH	2.647	32675	245292	9.8015 ng/ml
THC-OH	2.554	5189	551393	4.1692 ng/ml

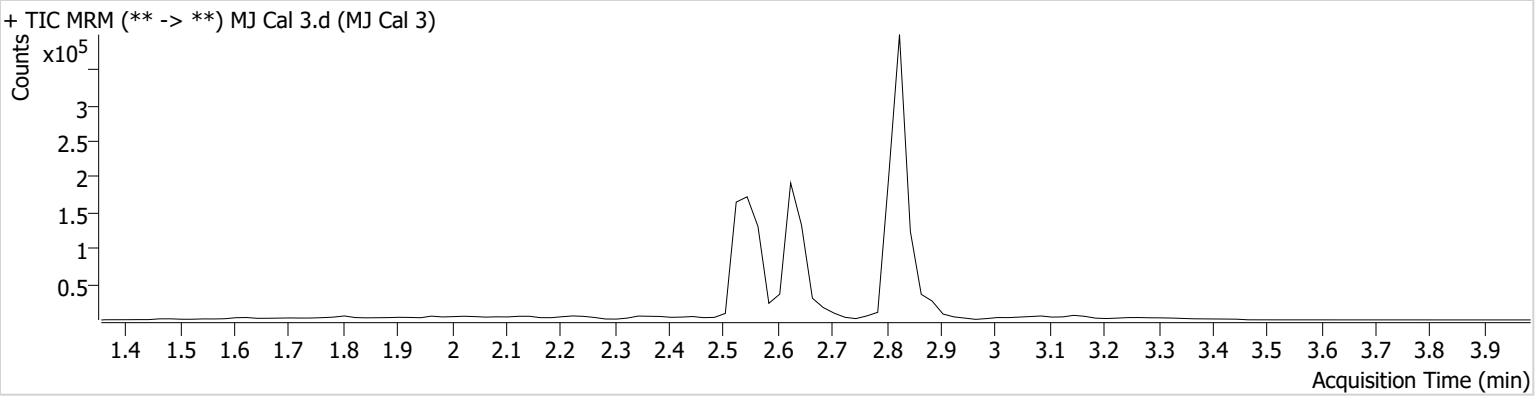
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:09:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	1239	26754	5.7384	ng/ml
THC-COOH	2.647	67539	250836	19.7987	ng/ml
THC-OH	2.554	8141	526574	7.3003	ng/ml

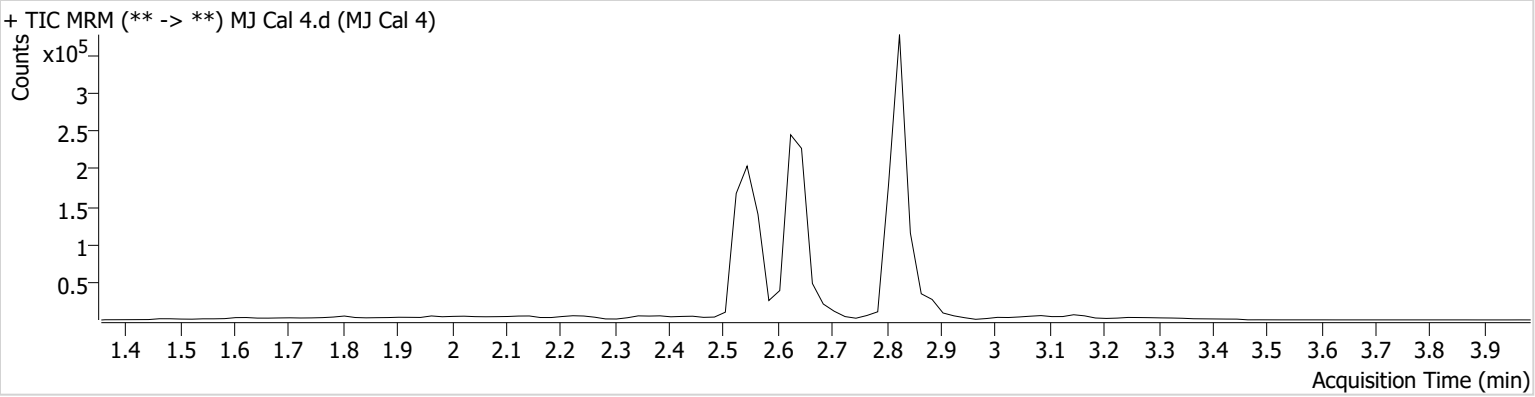
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:16:03 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	2277	30513	9.2899	ng/ml
THC-COOH	2.647	156522	226473	50.7997	ng/ml
THC-OH	2.554	15990	511259	15.4857	ng/ml

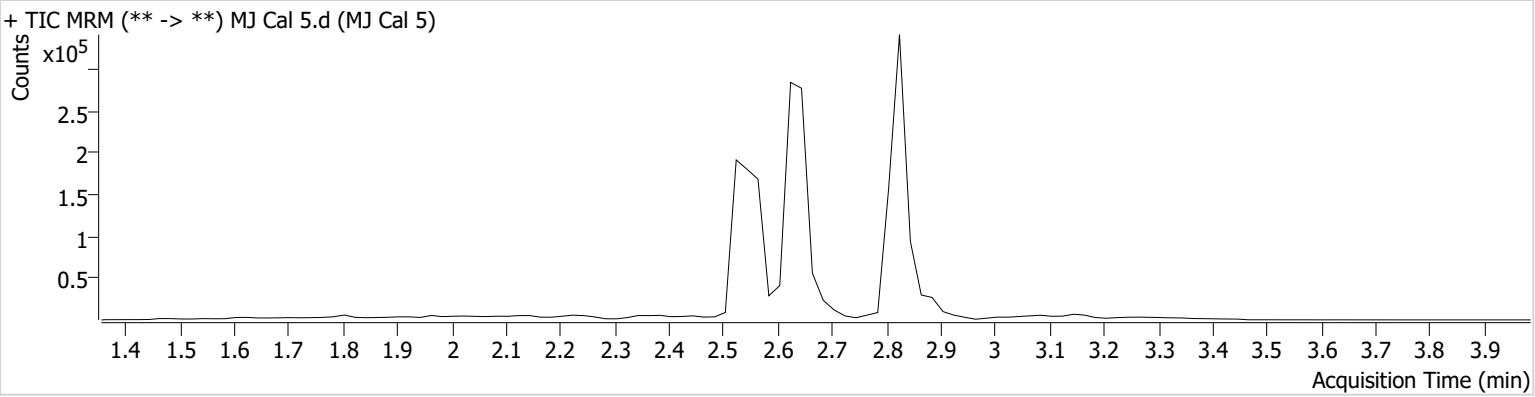
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:22:36 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.899	5273	26971	24.4646 ng/ml
THC-COOH	2.647	210555	204095	75.8228 ng/ml
THC-OH	2.534	23396	501139	23.4609 ng/ml

TS

AM #26 Cannabinoids Screen Results

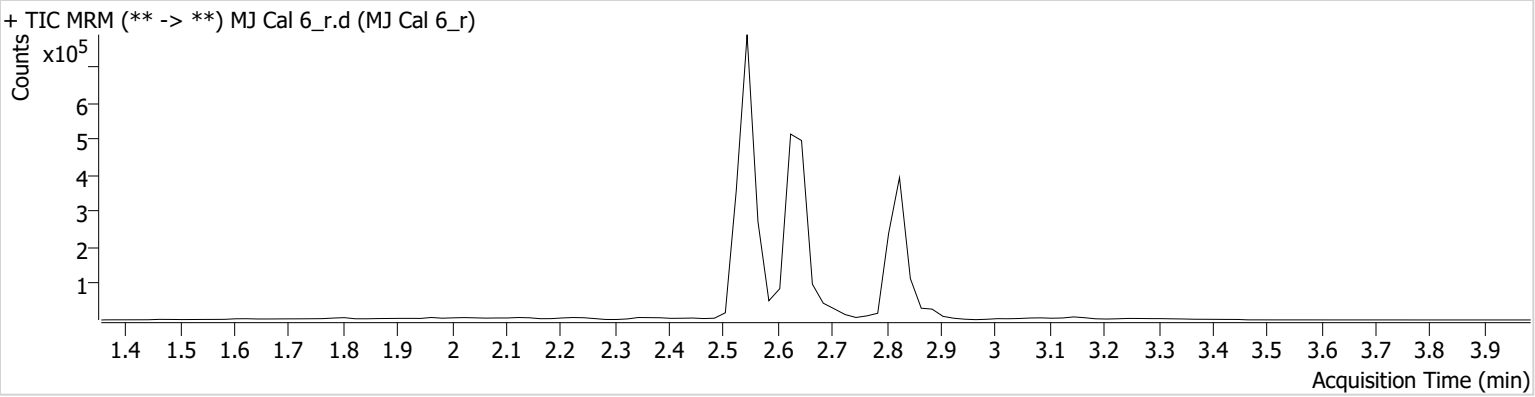
Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 6_r.d
Type	Cal	**Sample**	MJ Cal 6_r
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 4:25:57 PM		
Sample Info.			

Calibrator did not inject properly with initial injection. The calibrator was re-injected without issue.

TS
03/03/2022

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	11556	30609	47.3182	ng/ml
THC-COOH	2.647	421483	303478	102.0711	ng/ml
THC-OH	2.554	111583	1218740	46.6835	ng/ml

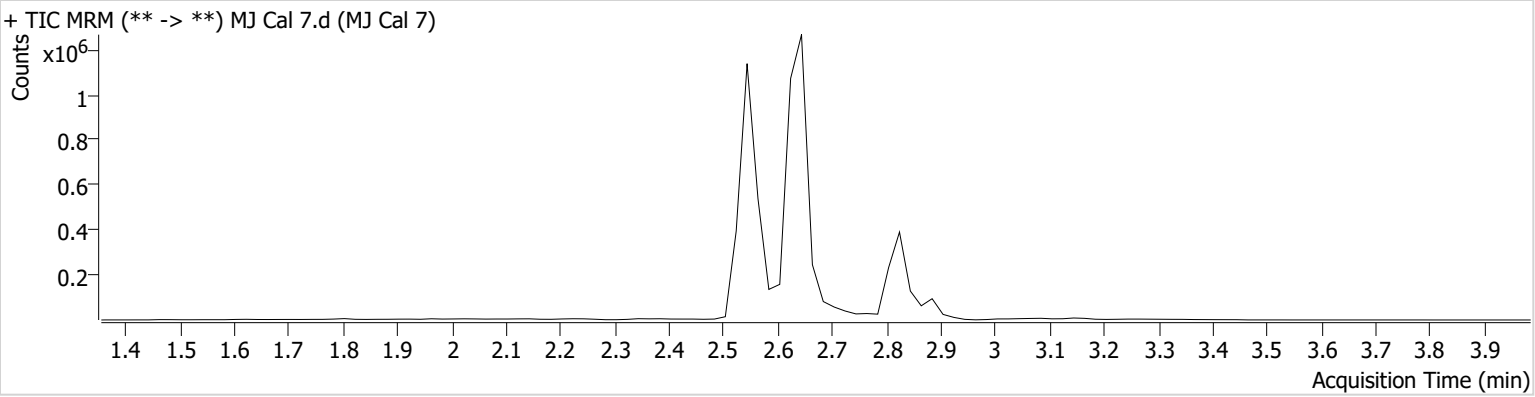
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\022822 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/3/2022 2:38:41 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/28/2022 3:35:43 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.899	57756	70295	103.0645	ng/ml
THC-COOH	2.647	1101227	327999	246.7296	ng/ml
THC-OH	2.534	149858	754245	102.1294	ng/ml