

REVIEWED

By Sarah Pickle at 7:59 am, Sep 23, 2020

ST

9/21/2020

Worklist: 4517

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-2795	1.1	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.10	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.11	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.12	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.2	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.3	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.4	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.5	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.6	CBUK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.7	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.8	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2020-2795	1.9	CBUK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 09/16/20
Plate lot#: IDP-107-2-200511

Analyst: Sophia Jackson
Plate Expiration: 11/11/2020

Mobile phase A: 10mM Amm Form
Instant Buffer I

Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol

Blank Blood Lot: Hemostat 445283-4

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

Blank Urine Lot: POCO31319

LCMS-QQQ ID: 069901

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.
- 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.
Pipette ID: #16
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300 uL
- 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 **900uL ethyl acetate**.
- 11. Wait 5 minutes.
- 12. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 13. Add **900uL ethyl acetate**.
- 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. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
- 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:

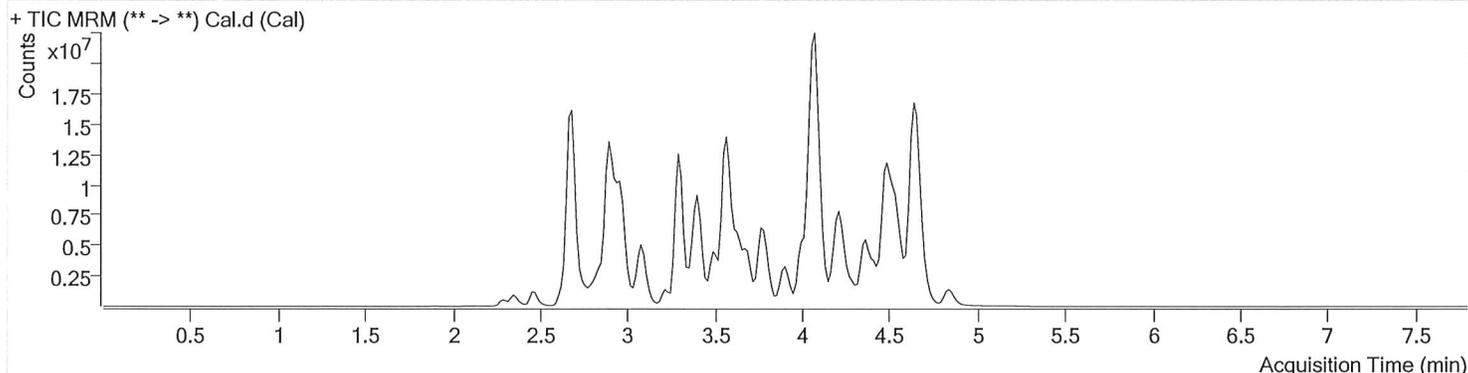


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2020 3:22:29 PM

Instrument Falco Data File Cal.d
Type Cal Sample Cal
Acq. Method AM 25 061720.m Operator Sophia Jackson
Sample Position P5-H12 Comment
Injection Volume 5
Acq. Date-Time 9/16/2020 5:10:31 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.892	80141	∞	4382.54	2220050	10.0000
7-aminoclonazepam	3.600	2071434	774.28	1307.54	7759724	10.0000
7-aminoflunitrazepam	3.799	3912661	890.11	3908.08	7759724	10.0000
Acetyl Fentanyl	3.795	61071	20.60	19471.94	32603442	10.0000
Acetyl Norfentanyl	2.886	359931	6420.45	105273.88	32603442	10.0000
a-hydroxyalprazolam	4.500	545007	278.28	1093.09	7759724	10.0000
alpha-hydroxymidazolam	4.591	2782869	3273.54	211948.98	7759724	10.0000
Alpha-PPP	3.773	1954043	1886.36	∞	32603442	10.0000
alpha-PVP	3.513	4451586	725.50	448.13	3933656	10.0000
Alprazolam	4.626	4357983	∞	491.82	37466959	10.0000
Amitriptyline	4.384	280840	17.74	19.92	657730	10.0000
Amphetamine	2.859	2027464	468.58	489.92	3933656	10.0000
Benzoyllecgonine	3.400	1705373	11039.45	481.24	767955	10.0000
Brompheniramine	4.011	18636	1828.98	39.40	13513617	10.0000
Buprenorphine	4.251	104793	4488.06	16692.10	498646	10.0000
Bupropion	3.697	2386126	∞	∞	8154927	10.0000
Carbamazepine	4.219	15381909	∞	4886.28	1595448	10.0000
Carisoprodol	4.202	1735797	219744.05	171.04	10093449	10.0000
Chlordiazepoxide	4.689	1161405	115.81	∞	37466959	10.0000
Chlorpheniramine	3.923	5640	1938.45	∞	13513617	10.0000
Citalopram	4.025	826524	∞	58676.50	13513617	10.0000
Clomipramine	4.579	289180	∞	∞	13513617	10.0000
Clonazepam	4.425	3484287	83.79	114993.42	37466959	10.0000
Clonazolam	4.376	2552598	475.64	378.32	37466959	10.0000
Cocaethylene	3.780	5098905	∞	207.54	32365313	10.0000
Cocaine	3.567	6237950	7770.30	256.17	32365313	10.0000
Codeine	2.790	534518	∞	383.83	14379124	10.0000
Cyclobenzaprine	4.324	230331	80870.21	20.02	657730	10.0000
Desipramine	4.340	358085	94.58	84.05	657730	10.0000
Dextromethorphan	4.063	316986	281.06	107.48	1731150	10.0000
Dextrorphan	3.372	2315223	2713.63	724.40	1731150	10.0000
Diazepam	4.843	2545705	∞	∞	37466959	10.0000
Dihydrocodeine	2.759	1531843	827.38	596.44	14379124	10.0000
Diphenhydramine	4.002	1529941	316.96	70.02	13513617	10.0000

Cal

5

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.107	204890	101.10	16.02	5230813	10.0000
Doxylamine	3.647	7752862	394.38	650115.47	1731150	10.0000
EDDP	4.077	1531649	832.12	167718.27	865524	10.0000
Estazolam	4.536	11405688	1054.80	496.10	37466959	10.0000
Etizolam	4.652	577877	448567.39	1324205.79	37466959	10.0000
Fentanyl	4.024	26965	7.49	14181.13	1716793	10.0000
Flualprazolam	4.500	1563808	176514.32	801.43	37466959	10.0000
Flunitrazepam	4.549	5634523	653.24	797745.84	37466959	10.0000
Fluoxetine	4.288	193107	76248.68	∞	537367	10.0000
Flurazepam	4.114	767270	56240.24	5647.57	37466959	10.0000
Hydrocodone	2.973	2102329	146.44	425.67	14379124	10.0000
Hydromorphone	2.457	2042010	∞	538.50	282407	10.0000
Imipramine	4.353	493563	2697.22	∞	657730	10.0000
Ketamine	3.389	5041065	390.71	119.86	18487701	10.0000
Lamotrigine	3.511	477664	216.27	68596.89	13513617	10.0000
Levamisole	2.947	4224971	∞	587.86	32365313	10.0000
Levetiracetam	2.629	1759620	589.29	908.21	13513617	10.0000
Lorazepam	4.424	1191665	∞	429.91	37466959	10.0000
Maprotiline	4.384	290097	17.92	∞	657730	10.0000
MDA	2.979	1317629	146.09	76.75	10504504	10.0000
MDEA	3.223	2684855	1036.30	577.21	10504504	10.0000
MDMA	3.070	3564778	231723.13	299.82	10504504	10.0000
Meperidine	3.557	1213073	403.75	2502.74	1731150	10.0000
Meprobamate	3.637	665295	820.18	∞	10093449	10.0000
Methadone	4.380	881969	58.53	63.04	865524	10.0000
Methamphetamine	2.965	1644005	6.27	659.85	10504504	10.0000
Methocarbamol	3.558	505133	276.63	112.04	865524	10.0000
Methylphenidate	3.497	6841980	∞	∞	10095906	10.0000
Metoprolol	3.433	645910	3748.71	551.85	1731150	10.0000
Midazolam	4.715	637884	513.28	∞	37466959	10.0000
Mirtazapine	3.770	997484	228.77	146903.33	1731150	10.0000
Mitragynine	4.144	45158	30357.98	102359.48	1731150	10.0000
Morphine	2.291	407824	219.05	∞	282407	10.0000
Norbuprenorphine	3.807	17389	10033.17	14205.75	498646	10.0000
Nordiazepam	4.677	2674981	∞	369.32	37466959	10.0000
Norfentanyl	3.313	6795295	14744.72	1623.91	32603442	10.0000
Norhydrocodone	2.913	52971	52.34	37.01	282407	10.0000
Norketamine	3.406	786229	716.38	∞	18487701	10.0000
Normeperidine	3.574	609426	180.28	∞	13513617	10.0000
Noroxycodone	2.881	2052001	280.50	174.00	18487701	10.0000
Nortriptyline	4.387	129838	∞	32.56	657730	10.0000
O-desmethyl-tramadol	2.899	11877576	997.84	155.19	13513617	10.0000
Olanzapine	3.689	132601	60378.80	45.78	1595448	10.0000
Oxazepam	4.490	4932827	1459.50	2148.06	31307822	10.0000
Oxycodone	2.909	4054002	∞	370.35	18487701	10.0000
Oxymorphone	2.347	1910185	248.03	1392.63	282407	10.0000
Paroxetine	4.316	27637	24.95	2035.12	537367	10.0000
Phenazepam	4.621	4265980	181998.28	∞	37466959	10.0000
Phencyclidine	3.926	1599119	247.57	572.15	1731150	10.0000
Phentermine	3.118	659746	∞	6.18	10095906	10.0000
Phenytoin	4.111	2911572	1821.07	2662.25	1595448	10.0000
Promethazine	4.291	618293	170.24	116.98	13513617	10.0000
Pseudoephedrine	2.690	47131454	∞	581.52	10504504	10.0000
Quetiapine	4.299	1036778	1609.72	199314.21	51239875	10.0000
Sertraline	4.519	96453	140.14	61.69	537367	10.0000
Sufentanil	4.298	18183	7591.84	29.45	32603442	10.0000
Tapentadol	3.406	4546734	952.17	577.59	18487701	10.0000
Temazepam	4.658	7170384	∞	46.59	37466959	10.0000
Tramadol	3.402	10616564	5482.40	∞	13513617	10.0000
Trazodone	4.284	1160680	1392.35	847889.43	5230813	10.0000

Cal

10

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.769	5653657	541204.99	1338.97	537367	10.0000
Zaleplon	4.351	6792207	749640.73	10213.84	51239875	10.0000
Zolpidem	4.074	12298079	5625468.62	1157.58	51239875	10.0000
Zopiclone	3.899	1134147	434.05	217.33	5972873	10.0000



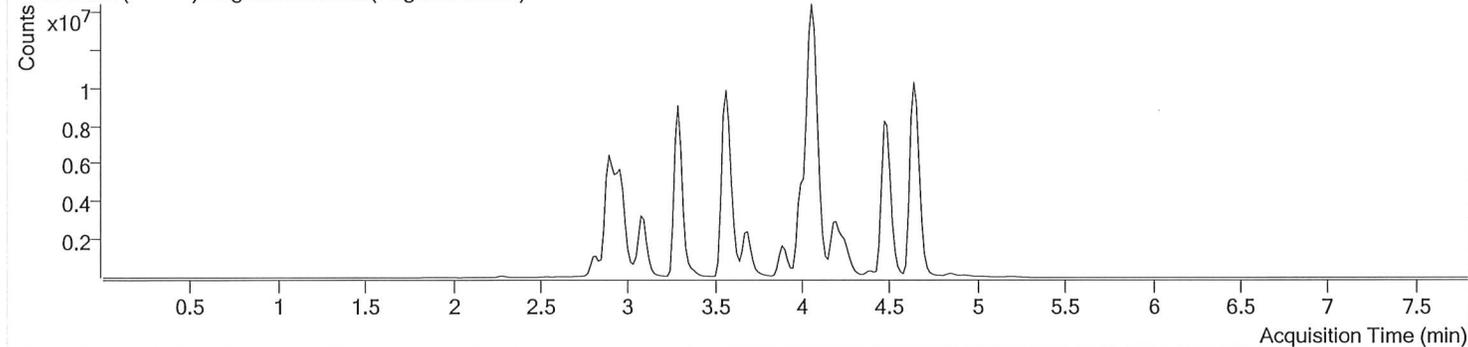
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2020 3:22:29 PM

Instrument	Falco	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 061720.m	Operator	Sophia Jackson
Sample Position	P5-D12	Comment	
Injection Volume	5		
Acq. Date-Time	9/16/2020 5:19:05 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) Negative Blood.d (Negative Blood)





Idaho State Police Forensic Services

**AM #25 Blood and Urine Multi-Drug Screen by LCMS-QQQ
And
AM #28 Urine Multi-Drug Confirmatory Analysis by
LCMS-QQQ—Panel 1**

Methanol External Control Solution (Lot: 031820)

100 ul of 1mg/mL stock was added to each drug to 9700 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared: 03/18/20			
Prepared By: Sarah Pickle			
Expires: 03/18/21			

Urine External Control Solution (Lot: WS052220)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	03/18/21	

SJ



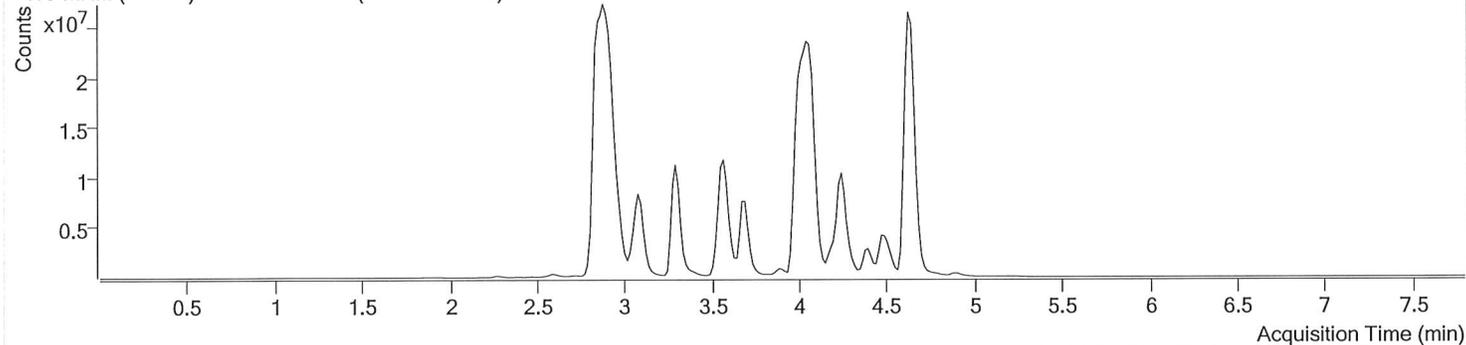
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2020 3:22:29 PM

Instrument	Falco	Data File	External Urine.d
Type	Sample	Sample	External Urine
Acq. Method	AM 25 061720.m	Operator	Sophia Jackson
Sample Position	P5-C12	Comment	
Injection Volume	5		
Acq. Date-Time	9/16/2020 5:35:56 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) External Urine.d (External Urine)



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	39754938	∞	5446.01	32037765	106.6822
Amphetamine	2.859	36806924	∞	7266.02	6457869	110.5817
O-desmethyl-tramadol	2.899	58143088	∞	1258.02	56250656	11.7602

SJ

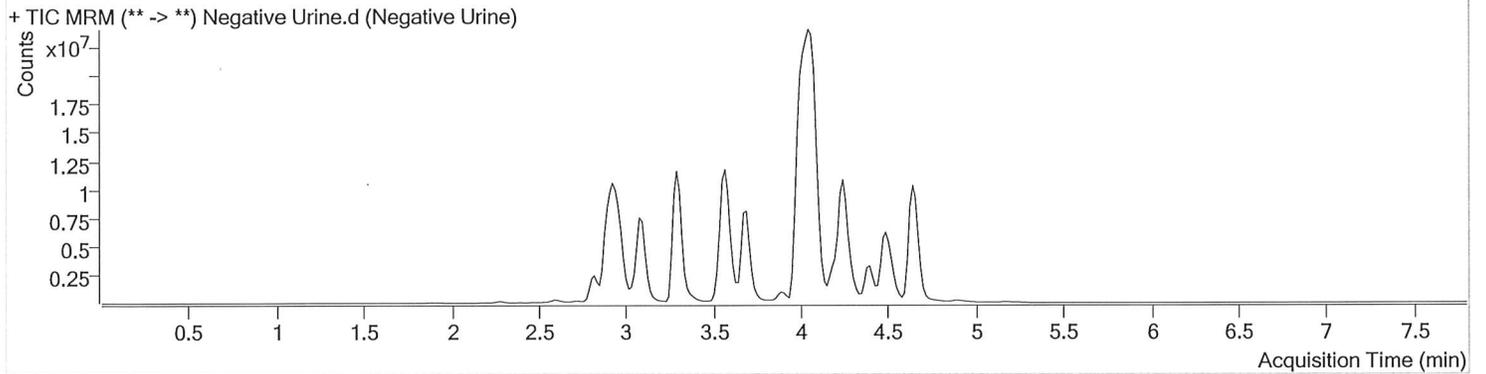


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2020 3:22:29 PM

Instrument	Falco	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	AM 25 061720.m	Operator	Sophia Jackson
Sample Position	P5-B12	Comment	
Injection Volume	5		
Acq. Date-Time	9/16/2020 5:52:47 PM		
Sample Info.			

Sample Chromatogram



5

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

Extraction Date: 09/16/2020
Plate lot#: IDP-108-2-200723

Analyst: Sophia Jackson
Plate Expiration: 01/23/21

Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: Hemostat 445283-4
Blank Urine Lot: POCO31319
LCMS-QQQ ID: 069901

Mobile phase B: 0.1% Formic acid in Acetonitrile
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.
Using a calibrated pipette, add **1000µl blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID:** 3382167
- 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: 800 uL
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right)
- 8. Wait 5 minutes.
- 9. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **2.25mL Hexane. (Add in 3 increments of 750uL)**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

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

COMMENTS:

Curves limited: THC 3-100

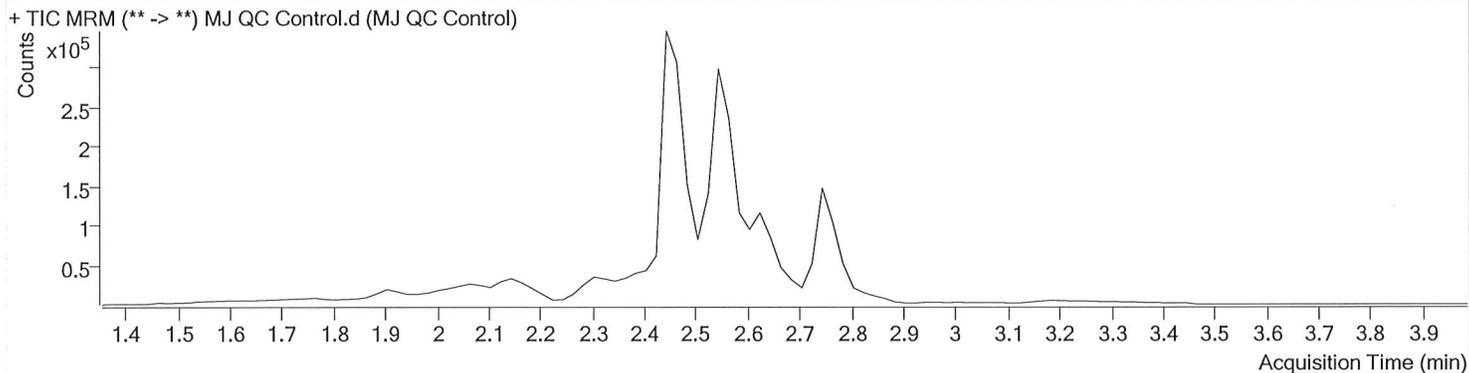


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ QC Control.d
Type	Sample	Sample	MJ QC Control
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-A6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:34:50 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.799	711	14071	4.8189 ng/ml
THC-COOH	2.565	140828	414828	15.5233 ng/ml
THC-OH	2.451	51474	826627	4.0660 ng/ml



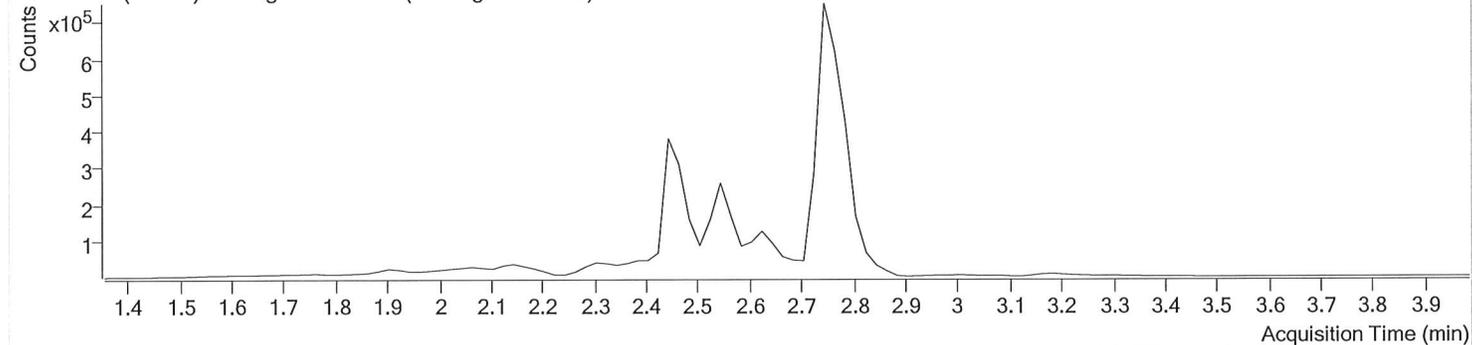
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-H5	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:47:55 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) MJ Negative Blood.d (MJ Negative Blood)





Idaho State Police Forensic Services

5

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

Methanol External Control Solution (Lot: WS011620)

10 μ L of 1mg/mL THC, 100 μ L of 100 μ g/mL THC-OH, C-THC in 9790 μ L MeOH

Approximate concentration 1ug/mL.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193941	
THC	Cerilliant	FE09101501	11/30/2020
C-THC	Cerilliant	FE07171501	09/30/2020
THC-OH	Cerilliant	FE07221601	07/31/2021
Prepared:	01/16/2020		
Prepared By:	Tamara Salazar		
Expires:	09/30/2020		

Urine External Control Solution (Lot: 090120)

200 μ L of methanol external control solution was added to 9800 μ L of urine.

Approximately 20ng/mL each

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS011620
Prepared:	09/01/2020	
Prepared by:	Sarah Pickle	

SJ

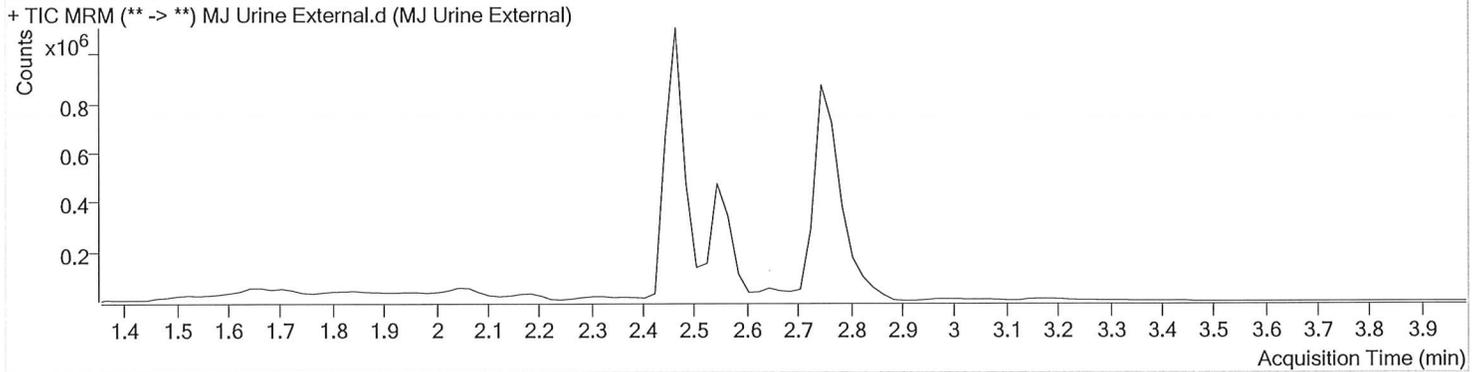


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Urine External.d
Type	Sample	Sample	MJ Urine External
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-G5	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 1:01:00 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	18586	225719	8.4992 ng/ml
THC-COOH	2.565	250433	723030	15.8302 ng/ml
THC-OH	2.471	481441	2251374	13.3381 ng/ml

57

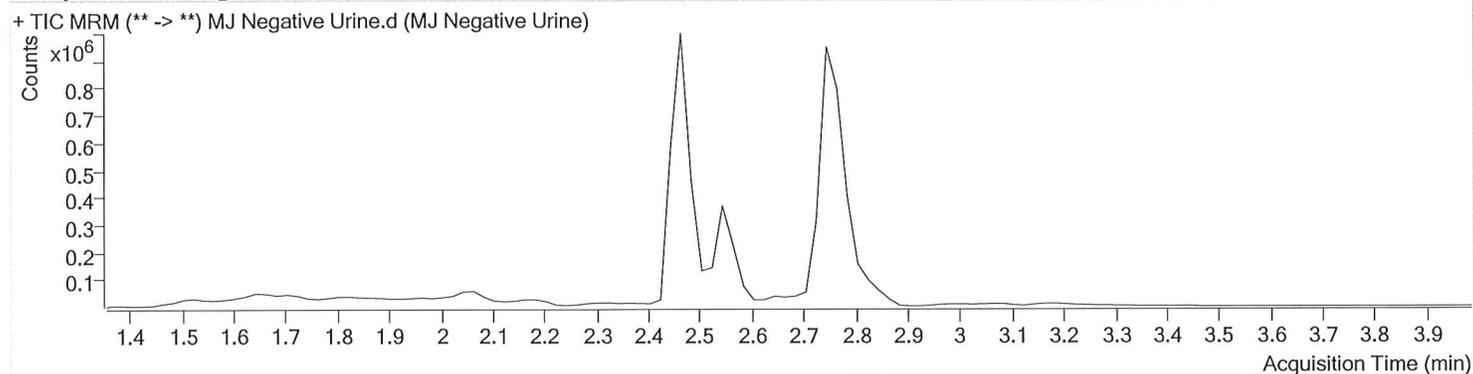


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Negative Urine.d
Type	Sample	Sample	MJ Negative Urine
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-F5	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 1:14:06 PM		
Sample Info.			

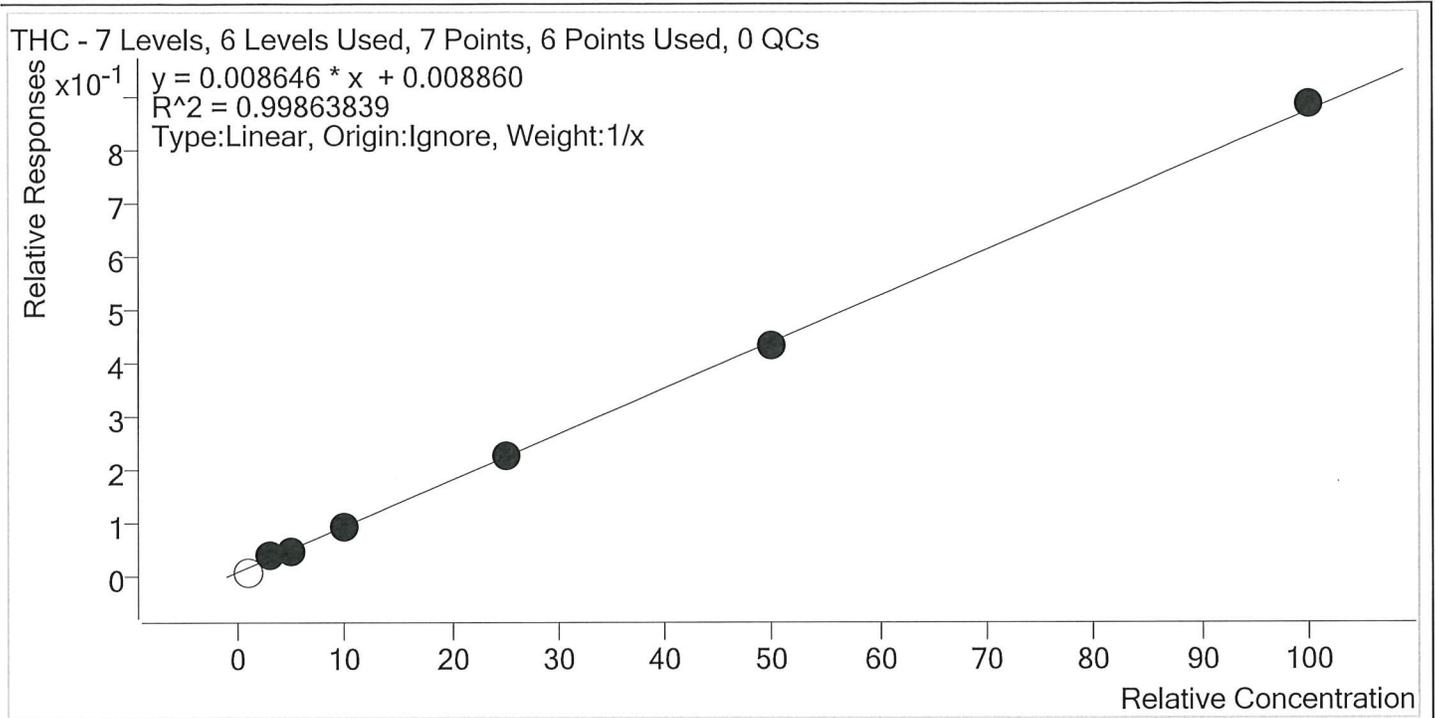
Sample Chromatogram





AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Last Cal. Update 9/17/2020 1:24 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3

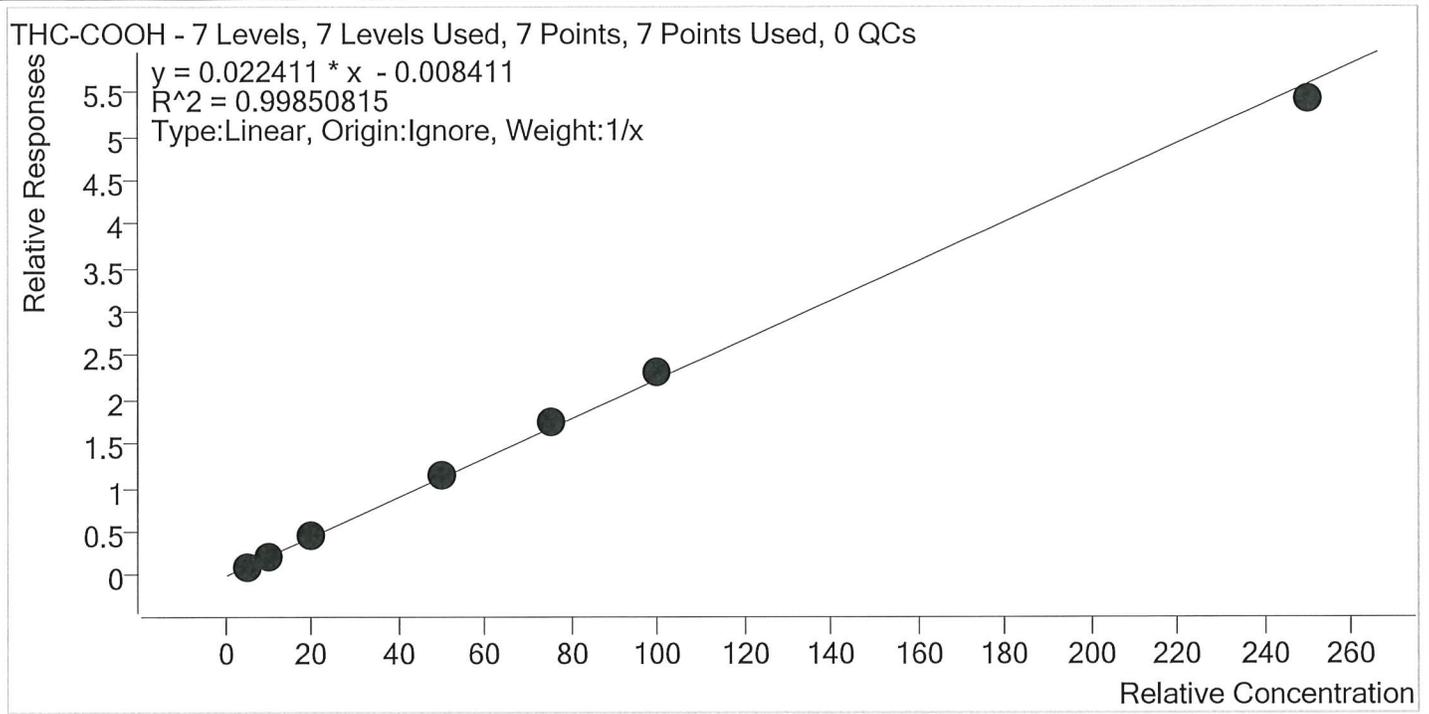


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	1.0	0.0	0.0
MJ Cal 2	2	✓	3.0	3.4	114.9
MJ Cal 3	3	✓	5.0	4.4	87.2
MJ Cal 4	4	✓	10.0	9.9	98.7
MJ Cal 5	5	✓	25.0	25.0	99.9
MJ Cal 6	6	✓	50.0	48.9	97.8
MJ Cal 7	7	✓	100.0	101.4	101.4



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Last Cal. Update 9/17/2020 1:24 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

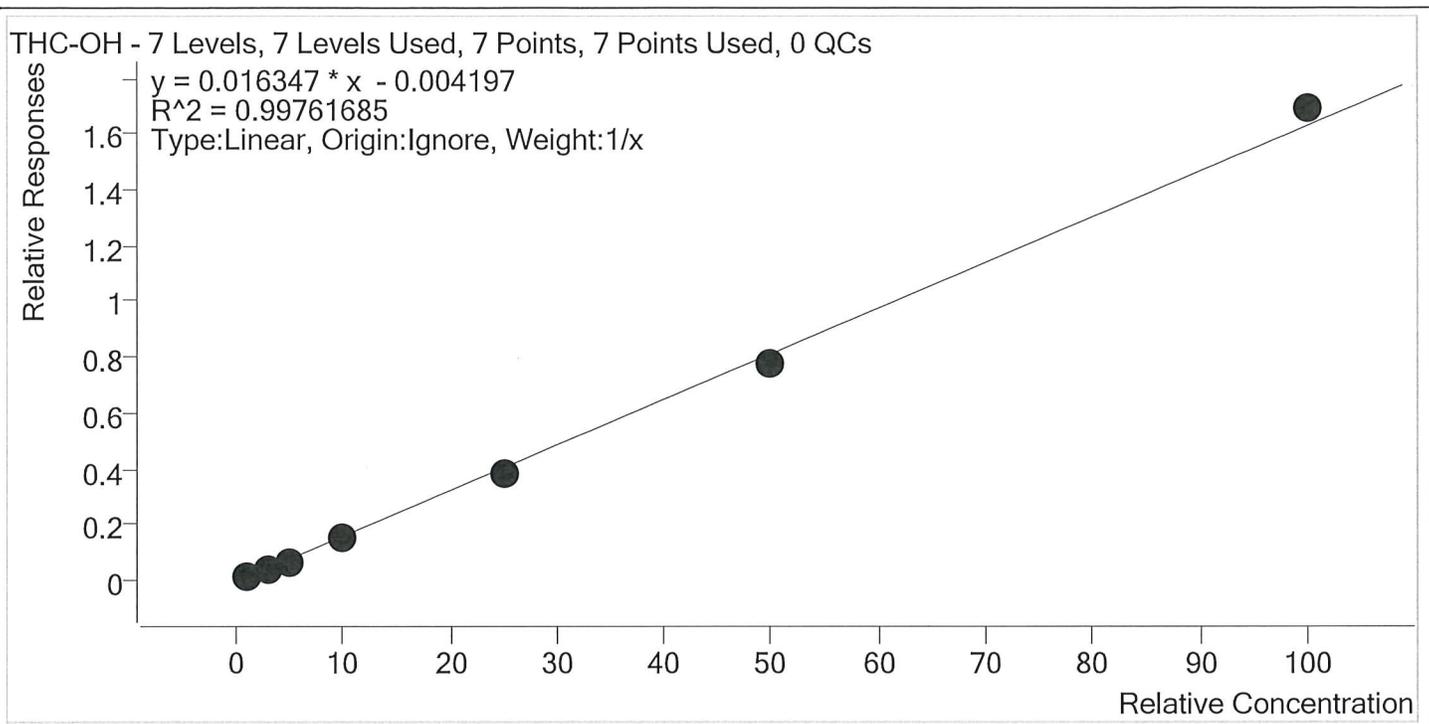


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.8	95.7
MJ Cal 2	2	✓	10.0	9.5	95.3
MJ Cal 3	3	✓	20.0	20.5	102.3
MJ Cal 4	4	✓	50.0	51.0	102.0
MJ Cal 5	5	✓	75.0	77.6	103.5
MJ Cal 6	6	✓	100.0	104.3	104.3
MJ Cal 7	7	✓	250.0	242.3	96.9



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Last Cal. Update 9/17/2020 1:24 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	1.2	123.2
MJ Cal 2	2	✓	3.0	2.7	90.7
MJ Cal 3	3	✓	5.0	4.6	92.0
MJ Cal 4	4	✓	10.0	10.0	99.6
MJ Cal 5	5	✓	25.0	23.6	94.5
MJ Cal 6	6	✓	50.0	48.1	96.3
MJ Cal 7	7	✓	100.0	103.7	103.7

SJ

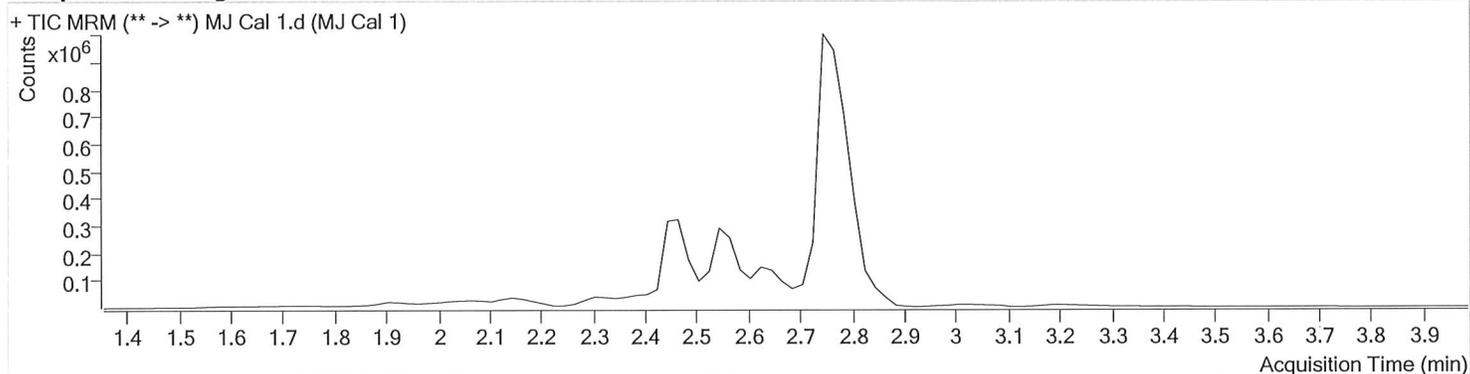


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-H6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 11:48:52 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC-COOH	2.565	48053	486119	4.7860 ng/ml	Low
THC-OH	2.451	13924	873021	1.2324 ng/ml	Low



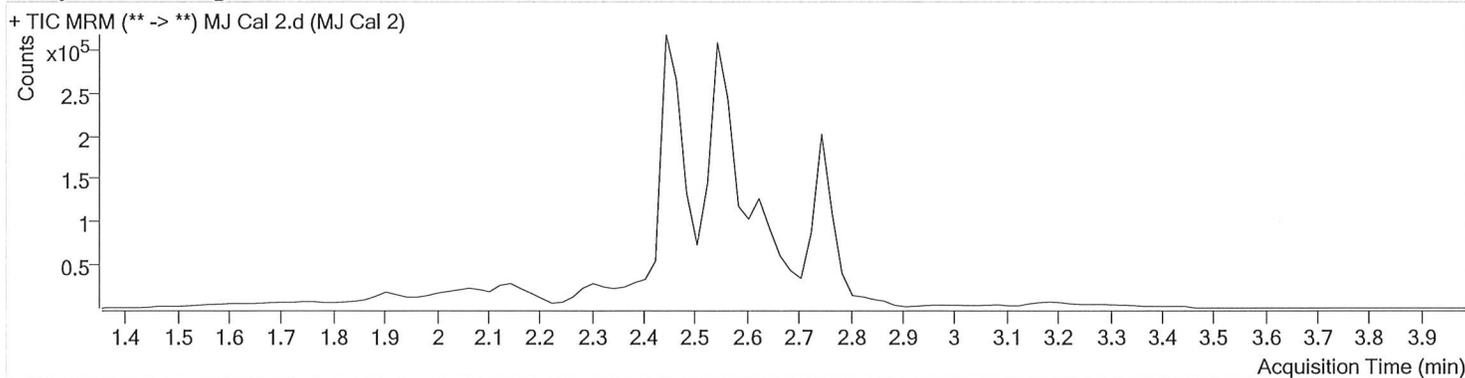
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-G6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 11:55:34 AM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	375	9694	3.4471 ng/ml
THC-COOH	2.565	105023	512039	9.5272 ng/ml
THC-OH	2.451	30275	751644	2.7207 ng/ml Low

55

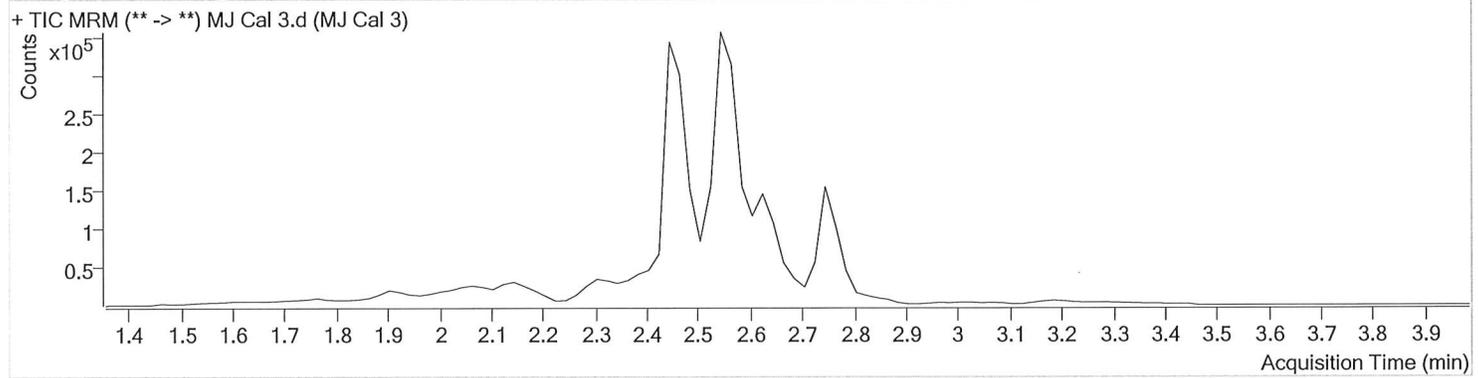


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-F6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:02:08 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	450	9673	4.3608 ng/ml
THC-COOH	2.565	219628	487969	20.4582 ng/ml
THC-OH	2.451	57720	813196	4.5987 ng/ml

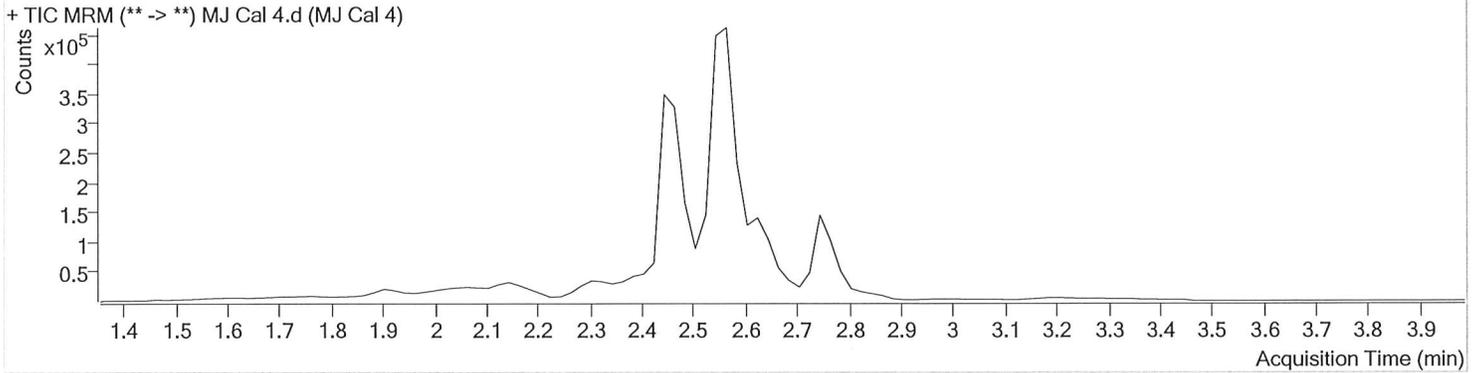


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-E6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:08:41 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	1103	11708	9.8691 ng/ml
THC-COOH	2.565	492491	434190	50.9869 ng/ml
THC-OH	2.471	127001	800779	9.9585 ng/ml

SJ



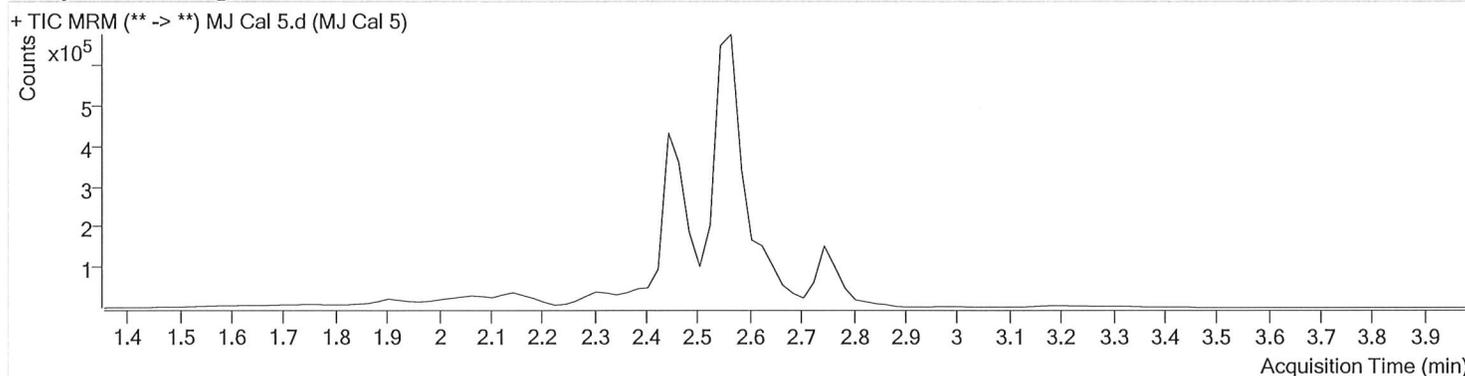
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-D6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:15:13 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	2550	11343	24.9814 ng/ml
THC-COOH	2.565	889492	513743	77.6305 ng/ml
THC-OH	2.451	307489	804923	23.6254 ng/ml

B

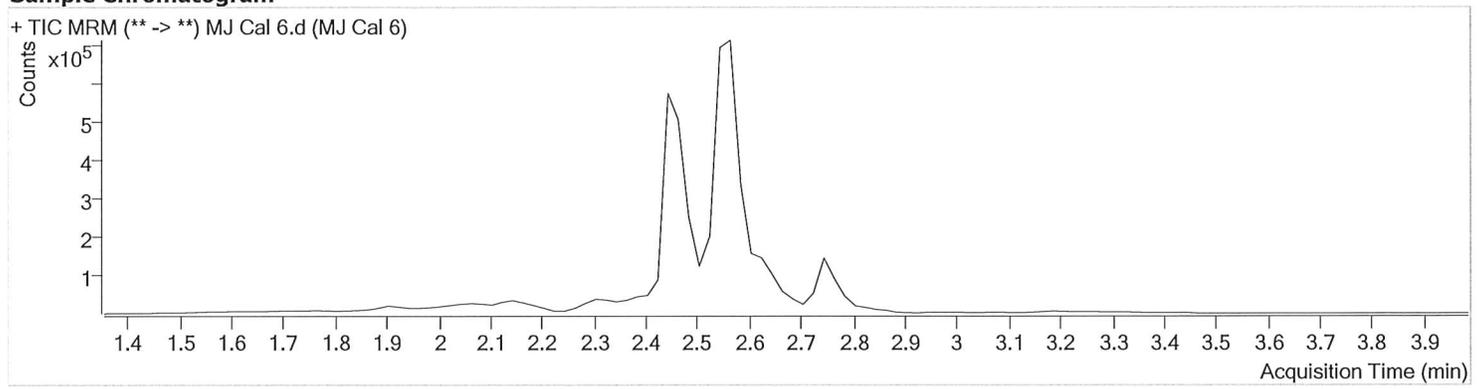


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-C6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:21:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	4771	11049	48.9237 ng/ml
THC-COOH	2.565	974884	418497	104.3176 ng/ml
THC-OH	2.451	647407	826957	48.1476 ng/ml

SJ

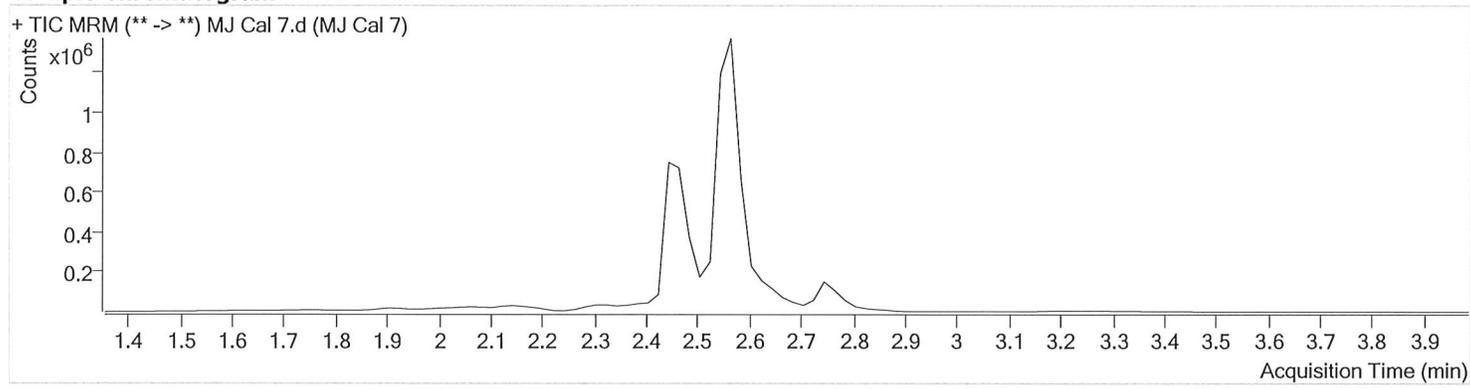


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\091520 AM 25 26 SJ comp test\QuantResults\AM 26.batch.bin
Calibration Last Update 9/17/2020 1:24:35 PM

Instrument	Falco	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	am 26 test.m	Operator	Sophia Jackson
Sample Position	P3-B6	Comment	
Injection Volume	10		
Acq. Date-Time	9/16/2020 12:28:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	10306	11636	101.4180 ng/ml
THC-COOH	2.565	2197482	405311	242.2935 ng/ml
THC-OH	2.471	1358145	803032	103.7166 ng/ml