








REVIEWED
By Tamara Salazar at 10:22 am, Jan 10, 2020

Worklist: 3924

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-5271	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2019-5298	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2019-5376	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2019-5600	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-5638	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-5753	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3327	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3643	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3678	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3692	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3704	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3705	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3714	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3718	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3721	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3739	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3804	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3838	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3869	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3884	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2019-3890	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 3924

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2019-3893	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3927	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3928	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3942	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3943	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3944	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3945	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 01/03/2020
 Plate lot#: 190725

Analyst: Celena Shrum
 Plate Expiration: 1/25/2020

Mobile phase A: 10mM Amm Form
 0.5M Ammonium Hydroxide

Blank Blood Lot: 445283-3
LCMS-QQQ ID: 069901

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. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL 500mM sodium phosphate buffer. 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: #42**
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 5. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 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).** *Manifold ID: 067104*
- 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. *SPE Dry ID: 067103*
- 17. Reconstitute in **100µL 100% 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: Zopiclone not evaluated for urines due to poor ISTD response.

P2019-3704 was not evaluated for acetyl norfentanyl, dihydrocodeine, norhydrocodone, noroxycodone, and oxycodone due to poor ISTD responses.
 P2019-3739 was not evaluated for MDA and norhydrocodone due to poor ISTD responses.
 P2019-3884 was not evaluated for MDA due to poor ISTD response.



Idaho State Police Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ

Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

Blood External Control Solution (Lot: WS042719)

100 ul of methanol external control solution was added to 9900 ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		042719
Prepared:	04/27/19	
Prepared by:	Tamara Salazar	
Expires:	01/31/2020	



Idaho State Police Forensic Services

AM #25 Blood and Urine Multi-Drug Screen by LCMS-QQQ

Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

Urine External Control Solution (Lot: WS092519)

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		042719
Prepared:	09/25/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

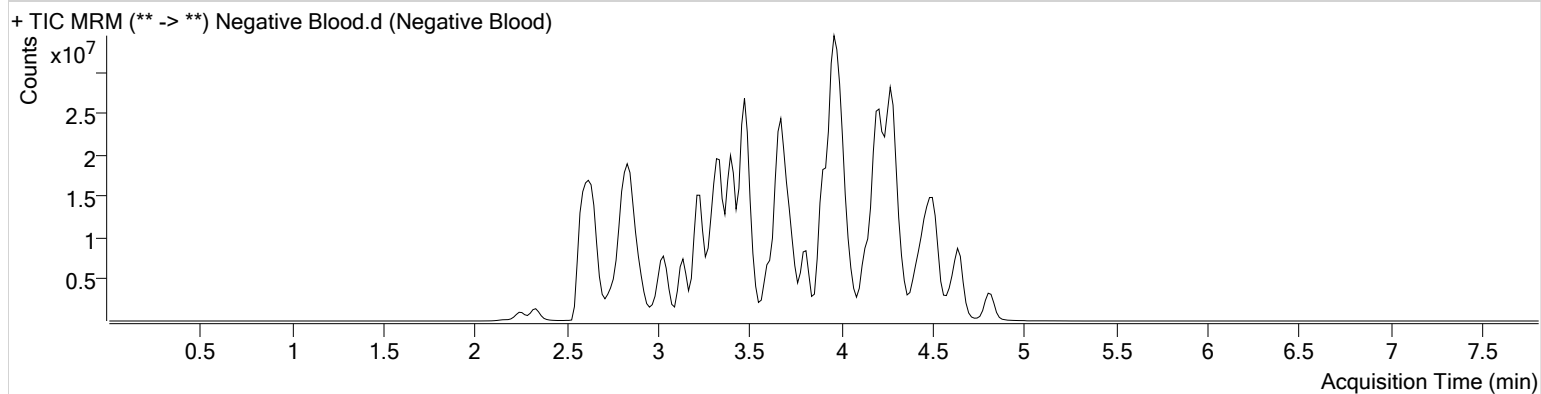
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 25 010320 CS.batch.bin
Calibration Last Update 1/9/2020 9:28:25 AM

Instrument	Falco	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	am 25 all.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	5		
Acq. Date-Time	1/3/2020 4:45:49 PM		
Sample Info.			

Sample Chromatogram



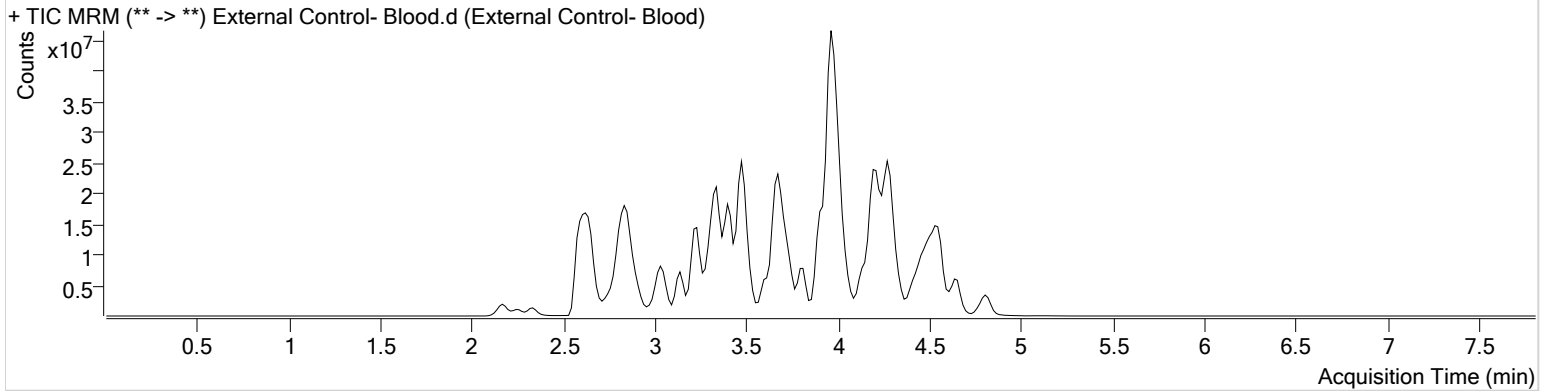
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 25 010320 CS.batch.bin
Calibration Last Update 1/9/2020 9:28:25 AM

Instrument	Falco	Data File	External Control- Blood.d
Type	Sample	Sample	External Control- Blood
Acq. Method	am 25 all.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	5		
Acq. Date-Time	1/3/2020 4:54:08 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Flunitrazepam	4.547	23118308	16456.35	383.64	455791	108.3303
Metoprolol	3.353	6925099	759.41	∞	13983946	94.9673
Morphine	2.174	2326988	56718.24	11058.88	122305	113.9238
Trazodone	3.959	31833019	∞	∞	16842935	103.9355

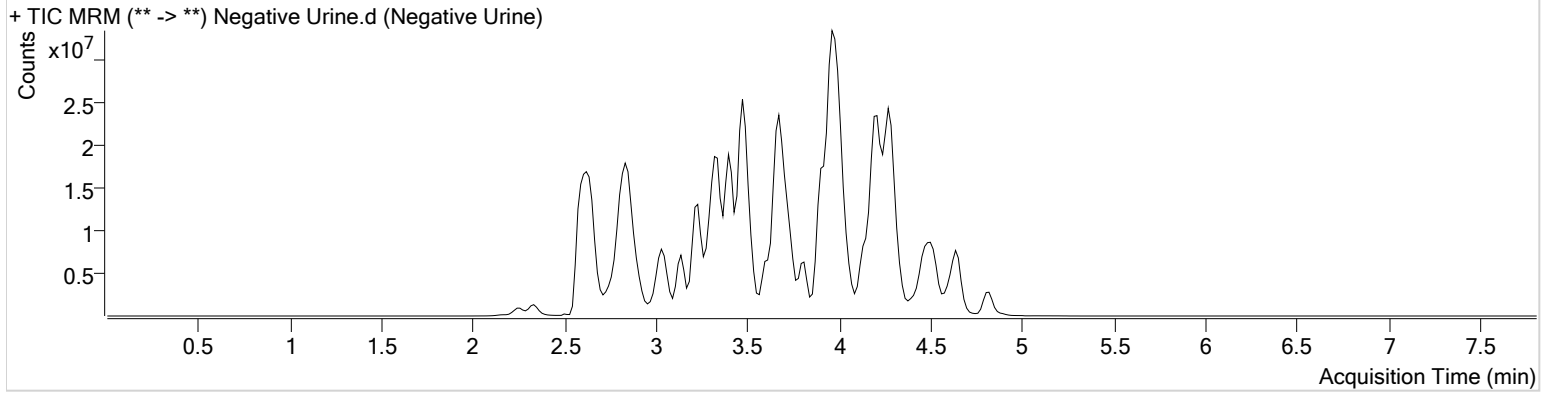
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 25 010320 CS.batch.bin
Calibration Last Update 1/9/2020 9:28:25 AM

Instrument	Falco	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	am 25 all.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	5		
Acq. Date-Time	1/3/2020 5:02:26 PM		
Sample Info.			

Sample Chromatogram



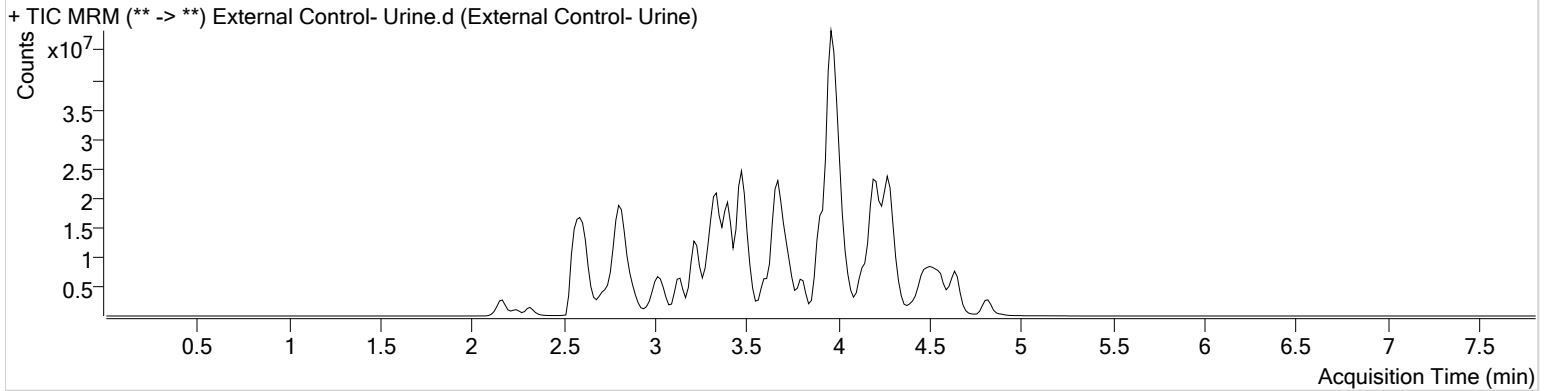
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 25 010320 CS.batch.bin
Calibration Last Update 1/9/2020 9:28:25 AM

Instrument	Falco	Data File	External Control- Urine.d
Type	Sample	Sample	External Control- Urine
Acq. Method	am 25 all.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	5		
Acq. Date-Time	1/3/2020 5:10:44 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Flunitrazepam	4.562	11113131	402.96	324.73	134405	176.5960
Metoprolol	3.353	8266131	1506.70	2268.35	13699841	115.7083
Morphine	2.174	3172321	34342.09	∞	131991	143.9121
Trazodone	3.959	37968290	∞	∞	15119369	138.0992

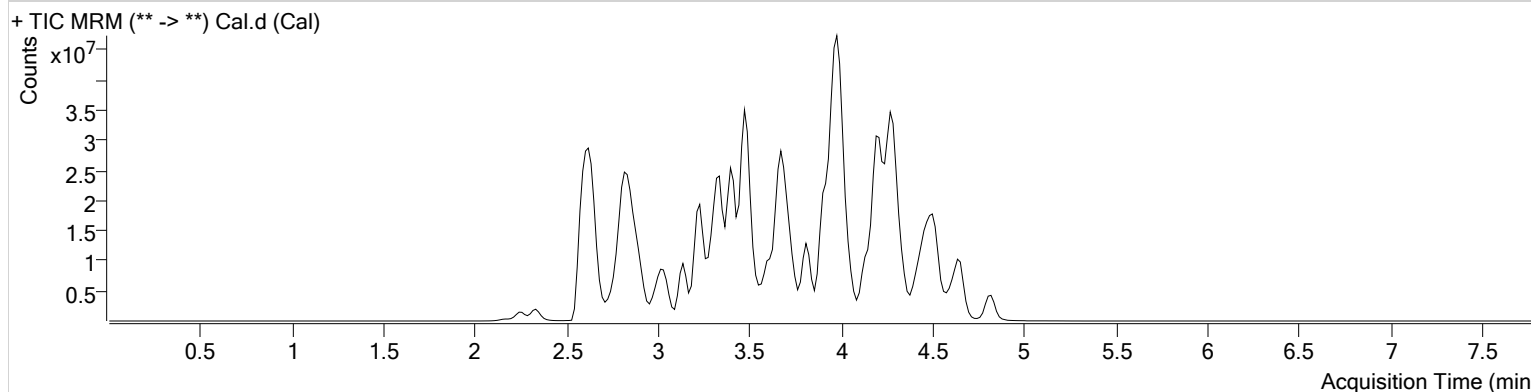
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 25 010320 CS.batch.bin
Calibration Last Update 1/9/2020 9:28:25 AM

Instrument	Falco	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	am 25 all.m	Operator	Celena Shrum
Sample Position	P1-A1	Comment	
Injection Volume	5		
Acq. Date-Time	1/3/2020 4:37:20 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.783	38182	123.72	9098.69	940436	10.0000
7-aminoclonazepam	3.536	1157968	115.86	443.23	4676002	10.0000
7-aminoflunitrazepam	3.750	2176437	234.31	2907.77	14490295	10.0000
Acetyl Fentanyl	3.670	443059	149.07	1258.38	30076621	10.0000
Acetyl Norfentanyl	2.808	313248	1769.50	155.85	14148518	10.0000
a-hydroxyalprazolam	4.499	195325	106.93	385.60	1090380	10.0000
alpha-hydroxymidazolam	4.451	1585072	220.61	1445.80	10033728	10.0000
alpha-PVP	3.420	5496317	13317.90	571.51	24534433	10.0000
Alprazolam	4.594	2027367	∞	1479.32	6002979	10.0000
Amitriptyline	4.306	4367000	∞	284.01	10133690	10.0000
Amphetamine	2.797	4917772	∞	1730.91	8612059	10.0000
Benzoyllecgonine	3.351	1008857	345.79	267.51	4804302	10.0000
Buprenorphine	3.958	493161	462506.52	33497.22	2361139	10.0000
Bupropion	3.619	5817248	5473.87	3517.91	18406215	10.0000
Carbamazepine	4.218	6446352	5269.61	∞	36851015	10.0000
Carisprodol	4.201	1227607	13908.33	200.73	6753913	10.0000
Chlordiazepoxide	4.534	737064	105.94	387.92	20059651	10.0000
Chlorpheniramine	3.827	26714	38.59	∞	50121934	10.0000
Citalopram	3.962	2022341	740.76	70890.74	9576401	10.0000
Clonazepam	4.439	1272563	∞	1504.51	2692267	10.0000
Cocaine	3.473	5500822	3105.60	631.41	27101617	10.0000
Codeine	2.681	429922	1875.12	1021.15	1694319	10.0000
Cyclobenzaprine	4.245	3405129	6907.43	∞	11771613	10.0000
Desipramine	4.277	4916125	894.77	3661.70	28881365	10.0000
Dextromethorphan	3.952	1558507	1857.01	335.21	7445605	10.0000
Dextrorphan	3.293	2936963	990.93	1855.27	18740698	10.0000
Diazepam	4.826	2241467	489.14	2106.66	10802322	10.0000
Dihydrocodeine	2.650	830879	715.29	93.38	3521678	10.0000
Diphenhydramine	3.923	10271293	134041.83	563.39	50121934	10.0000
Doxepin	4.043	2375415	∞	174.82	15769944	10.0000
Doxylamine	3.491	11031174	558.65	1224.43	41912111	10.0000
EDDP	3.981	5151348	∞	337.43	32519594	10.0000
Estazolam	4.519	5484049	459.02	427.78	15913778	10.0000
Etizolam	4.619	308207	1283.46	142950.47	15913778	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	3.899	370573	140.00	22468.63	24049115	10.0000
Flunitrazepam	4.547	2652314	16561.98	522.18	566481	10.0000
Fluoxetine	4.240	3563539	2531.18	233.59	16228153	10.0000
Flurazepam	4.020	1949130	1238.32	267.39	566481	10.0000
Hydrocodone	2.864	1380396	878.78	14.73	8687676	10.0000
Hydromorphone	2.338	1210551	∞	329.35	4644068	10.0000
Imipramine	4.274	5774637	∞	∞	21517329	10.0000
Ketamine	3.249	4487021	970.95	704.09	20953765	10.0000
Lamotrigine	3.401	327563	167.20	369.83	14033035	10.0000
Levamisole	2.824	3734208	236.19	767.47	27101617	10.0000
Lorazepam	4.408	669977	316.69	243.78	2692267	10.0000
Maprotiline	4.306	4379154	∞	425.15	10133690	10.0000
MDA	2.917	2682762	958.65	767.72	11970908	10.0000
MDEA	3.145	5226556	2456.98	701.21	24319262	10.0000
MDMA	2.992	5996820	30520.95	∞	4308140	10.0000
Meperidine	3.479	2994908	903.59	1044.45	14033035	10.0000
Meprobamate	3.636	501290	299.28	331.13	2272988	10.0000
Methadone	4.286	6257128	594.53	477.67	27256624	10.0000
Methamphetamine	2.887	6094527	∞	∞	25895459	10.0000
Methocarbamol	3.541	565860	516.13	∞	14033035	10.0000
Methylphenidate	3.420	10124952	∞	∞	41165478	10.0000
Metoprolol	3.353	731769	668.35	533.15	14033035	10.0000
Midazolam	4.299	492635	415.98	905.24	5599528	10.0000
Mirtazapine	3.569	3313627	4686.71	∞	14033035	10.0000
Mitragynine	4.035	338403	1689.78	483407.21	15769944	10.0000
Morphine	2.174	217460	1172.23	2321.46	130210	10.0000
Norbuprenorphine	3.729	89777	123192.99	110.23	420666	10.0000
Nordiazepam	4.676	1767700	∞	∞	5452637	10.0000
Norfentanyl	3.235	7780899	770625.59	1259.88	32363122	10.0000
Norhydrocodone	2.850	25781	∞	∞	944543	10.0000
Normeperidine	3.512	3003986	844.33	1328.16	10634616	10.0000
Noroxycodone	2.803	780280	64.13	82.38	2499510	10.0000
Nortriptyline	4.325	2474818	282528.26	244.26	5794681	10.0000
O-desmethyl-tramadol	2.837	8236256	4873.26	313.79	39230446	10.0000
Olanzapine	3.044	8664	6835.44	∞	850182	10.0000
Oxazepam	4.489	2626415	591.98	346.60	17037612	10.0000
Oxycodone	2.815	2117634	555.27	∞	9481509	10.0000
Oxymorphone	2.258	1132049	245.80	∞	4044045	10.0000
Paroxetine	4.253	481213	449.55	49.75	13467054	10.0000
Phenazepam	4.634	1351570	∞	∞	6804198	10.0000
Phencyclidine	3.816	5863405	496.19	303.64	26425537	10.0000
Phentermine	3.055	1821403	541.87	∞	24147642	10.0000
Phenytoin	4.109	123541	748.80	72.34	850182	10.0000
Promethazine	4.197	10204806	549.05	1774.85	36619575	10.0000
Pseudoephedrine	2.628	45898632	24183.65	30449.47	105412436	10.0000
Quetiapine	4.128	3608737	1144.57	2711.86	5340874	10.0000
Sertraline	4.456	2734517	969.52	1641.72	13467054	10.0000
Sufentanil	4.143	293406	303.58	248.64	21129756	10.0000
Tapentadol	3.358	4541474	2394.77	801.51	23761068	10.0000
Temazepam	4.656	3733380	∞	5.36	18082572	10.0000
Tramadol	3.339	10657324	535.89	86.80	42029570	10.0000
Trazodone	3.959	3178979	1259232.51	∞	17482010	10.0000
Venlafaxine	3.704	7717583	12840.71	∞	38043463	10.0000
Zaleplon	4.349	3251585	∞	∞	6960724	10.0000
Zolpidem	3.671	8239309	788.31	2538.85	38719542	10.0000
Zopiclone	3.623	148621	203206.16	593.82	775192	10.0000

CS

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

Extraction Date: 01/03/2020
Plate lot#: 190716

Analyst: Celena Shrum
Plate Expiration: 01/16/2020

Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: 445283-3
LCMS-QQQ ID: 069901

Mobile phase B: 0.1% Formic acid in Acetonitrile
~~**Column:** UCT Selectra DA-100 x 2.1mm 3um~~ 01/10/2020 CS
Blank Urine Lot: POC031319
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um) CS

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: #42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 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 **800µL of blood+acid or urine+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, Curve weighting of Linear 1/x with r^2 values ≥ 0.98 for each analyte
- 3. RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less).
- 4. Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: 10ng/mL (qualitative only) will be reported. Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL.
- 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- 6. Enter QCs into control charting.
- 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: THC curve range: 1-10, Carboxy-THC curve range: 5-250, THC-OH curve range: 3-100.

The urine external control was reinjected as the top of the peak was cut off in the first injection. CS



Idaho State Police Forensic Services

AM #26 Quantitative Analysis of THC and Metabolites in Blood and Urine by LCMS-QQQ

Methanol External Control Solution (Lot: WS041619)

10 ul of 1mg/mL THC, 100 ul of 100 ug/mL THC-OH, C-THC in 9790 ul MeOH
Approximate concentration 1ug/mL.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	184782	
THC	Cerilliant	FE09101501	11/30/2020
C-THC	Cerilliant	FE07171501	09/30/2020
THC-OH	Cerilliant	FE01121503	01/31/2020
Prepared:	04/16/2019		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

Urine External Control Solution (Lot: 100719)

100 ul of methanol external control solution was added to 9900 ul of urine.
Approximately 10ng/mL of each compound.

Component	Source	Source Lot Number
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS041619
Prepared:	10/07/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

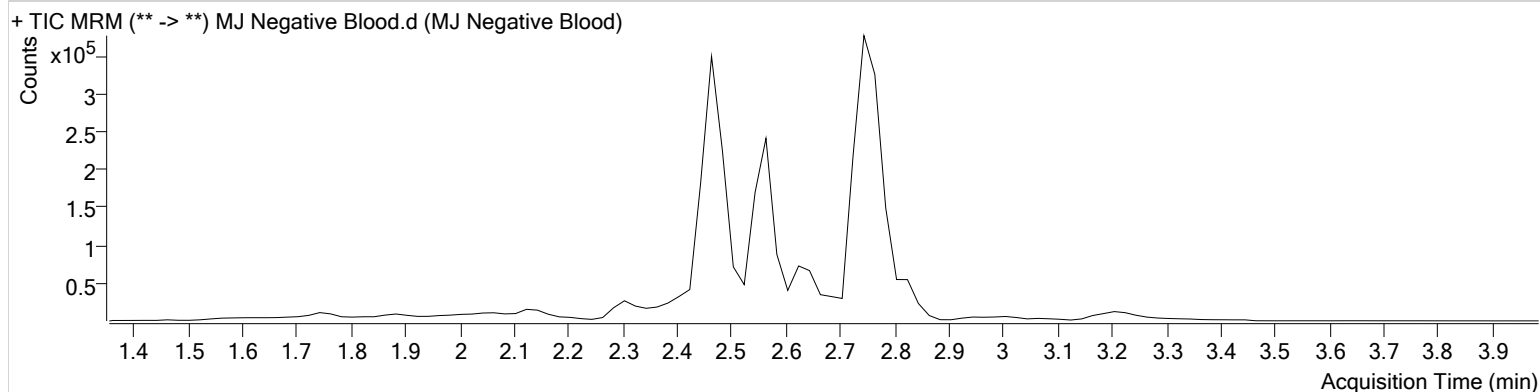
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-A2	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:53:45 AM		
Sample Info.			

Sample Chromatogram



CS

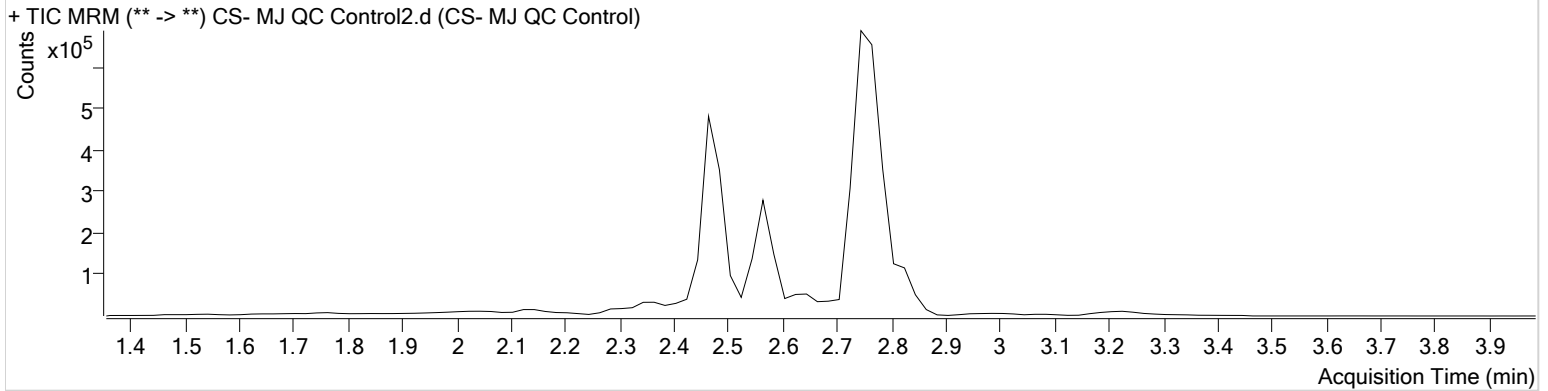


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/9/2020 3:32:46 PM

Instrument	Falco	Data File	CS- MJ QC Control2.d
Type	Sample	Sample	CS- MJ QC Control
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-H1	Comment	
Injection Volume	10		
Acq. Date-Time	1/7/2020 7:51:20 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	6486	90664	5.2952 ng/ml
THC-COOH	2.565	71907	371275	13.1259 ng/ml
THC-OH	2.471	65458	1084609	5.3850 ng/ml

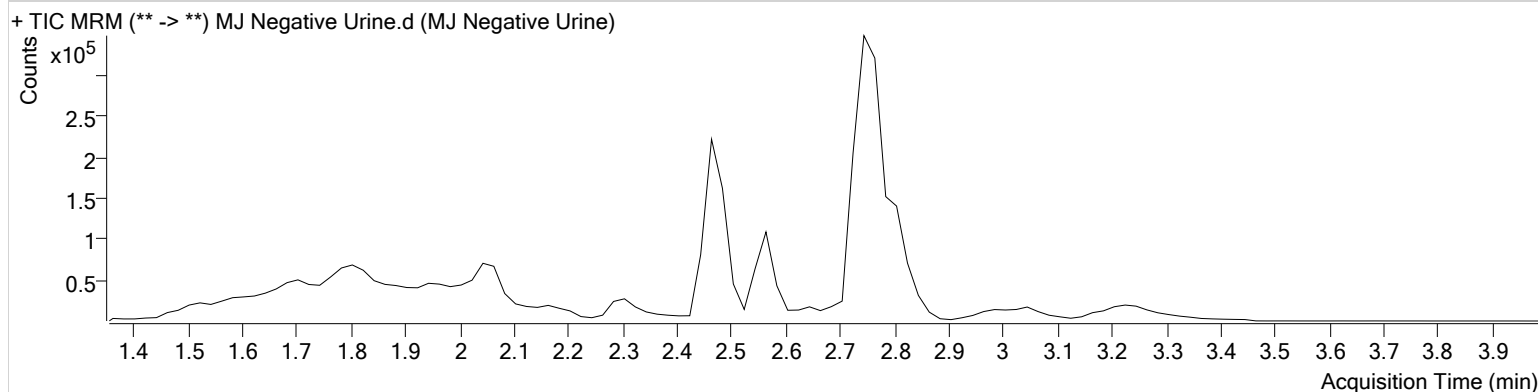
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Negative Urine.d
Type	Sample	Sample	MJ Negative Urine
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-B2	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 3:00:16 AM		
Sample Info.			

Sample Chromatogram



CS

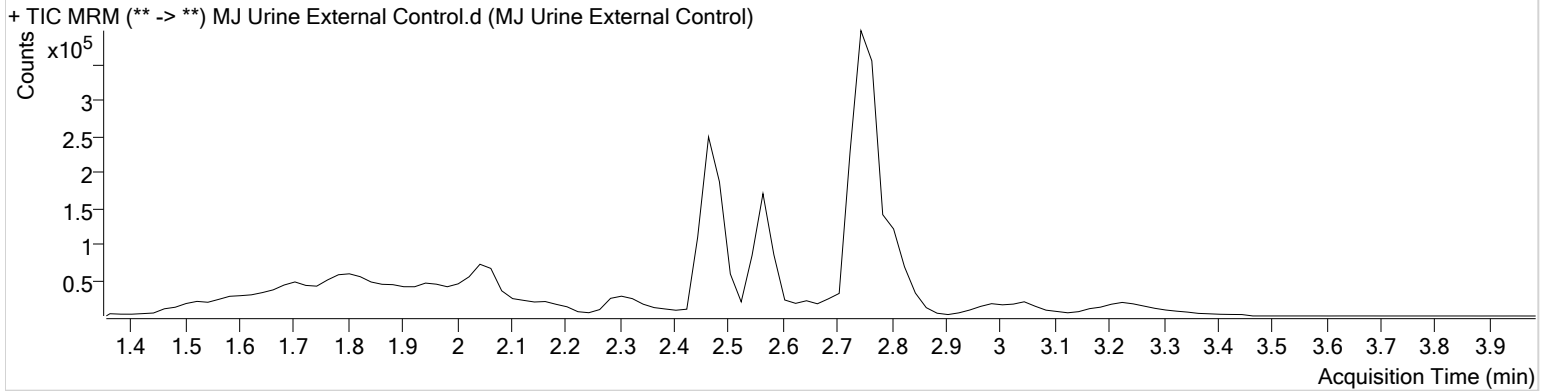


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Urine External Control.d
Type	Sample	Sample	MJ Urine External Control
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-C2	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 3:06:46 AM		

Sample Chromatogram

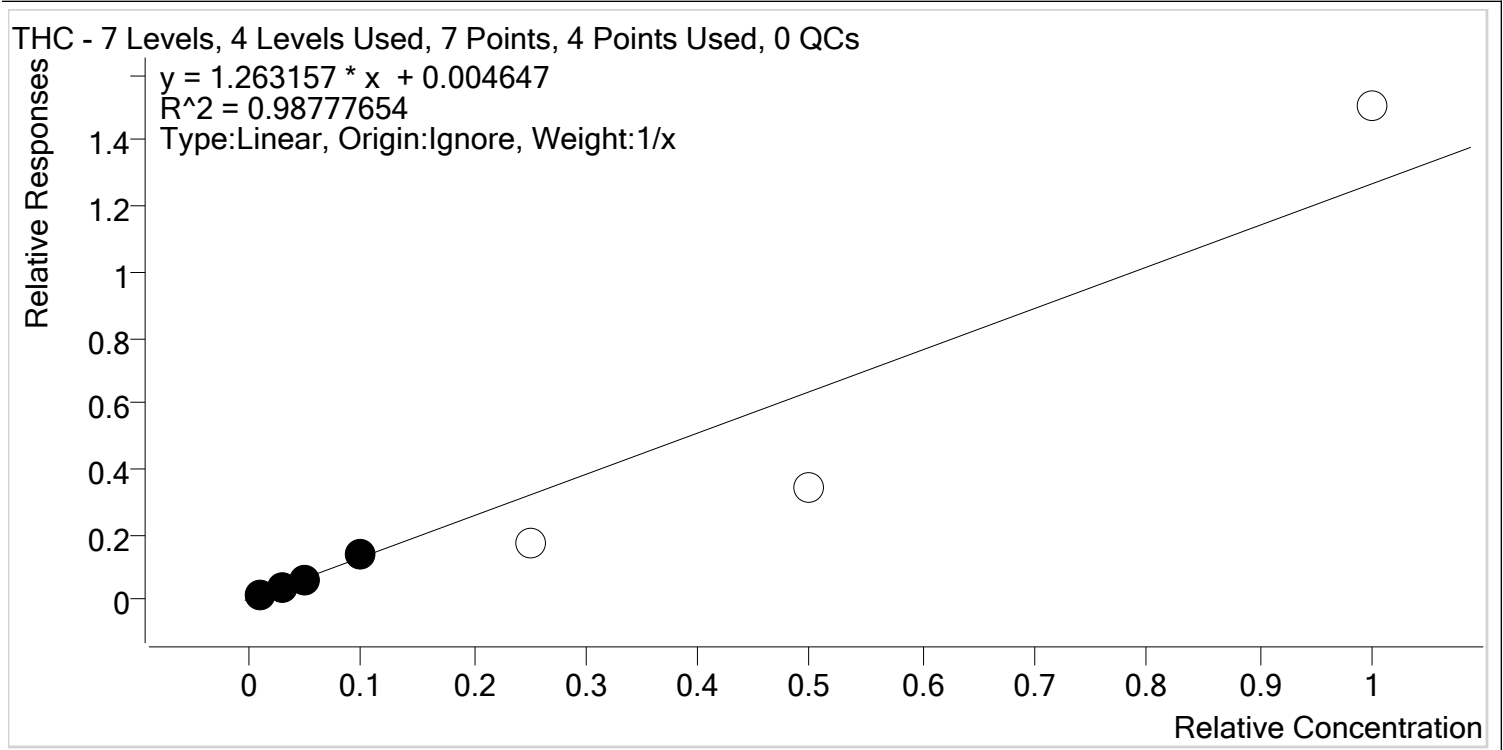


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	12327	149722	6.1503 ng/ml
THC-COOH	2.565	59012	249004	15.8130 ng/ml
THC-OH	2.471	88470	555309	13.1083 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320
 CS.batch.bin
Last Cal. Update 1/7/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-d3

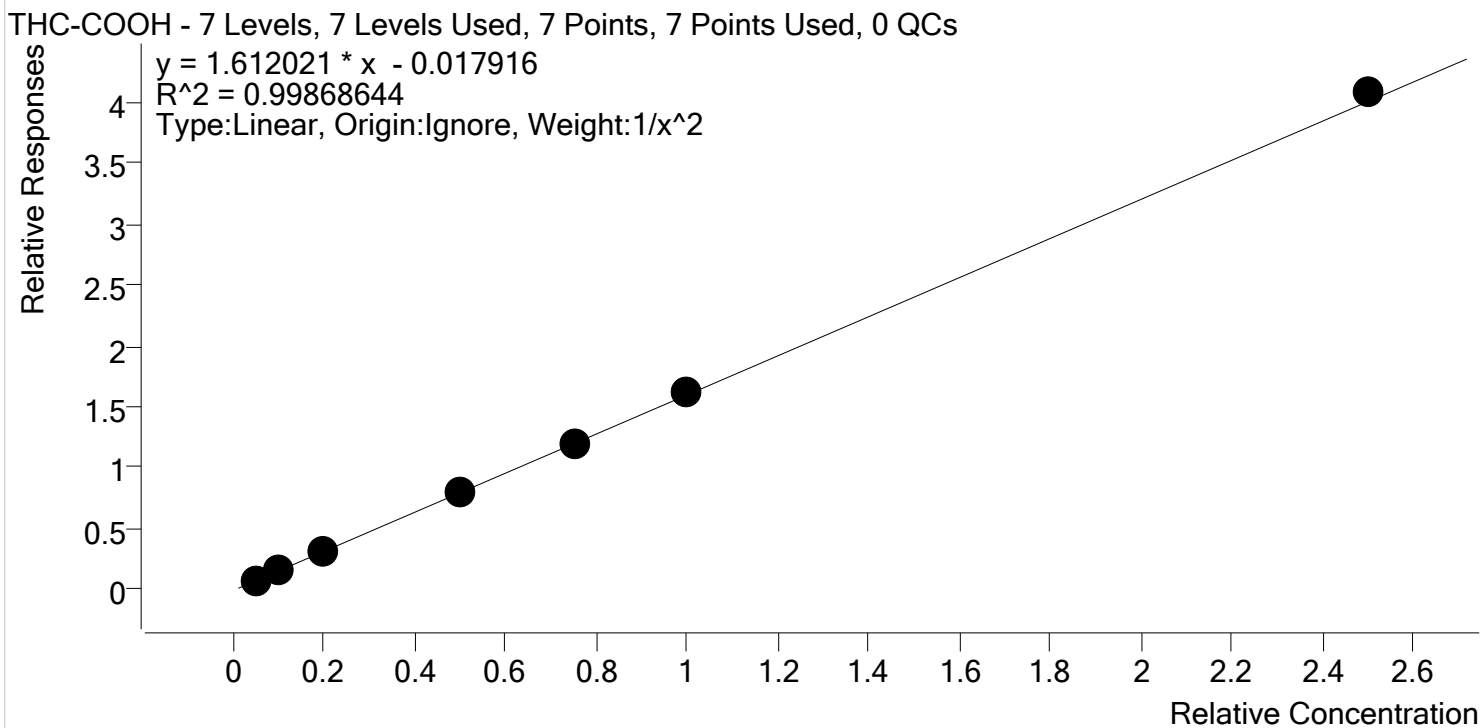


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.1	109.8
MJ Cal 2	2	✓	3.0	2.9	95.4
MJ Cal 3	3	✓	5.0	4.4	88.8
MJ Cal 4	4	✓	10.0	10.6	106.0
MJ Cal 5	5	x	25.0	13.5	54.1
MJ Cal 6	6	x	50.0	26.9	53.7
MJ Cal 7	7	x	100.0	118.7	118.7



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320
 CS.batch.bin
Last Cal. Update 1/7/2020 1:37 PM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-d9

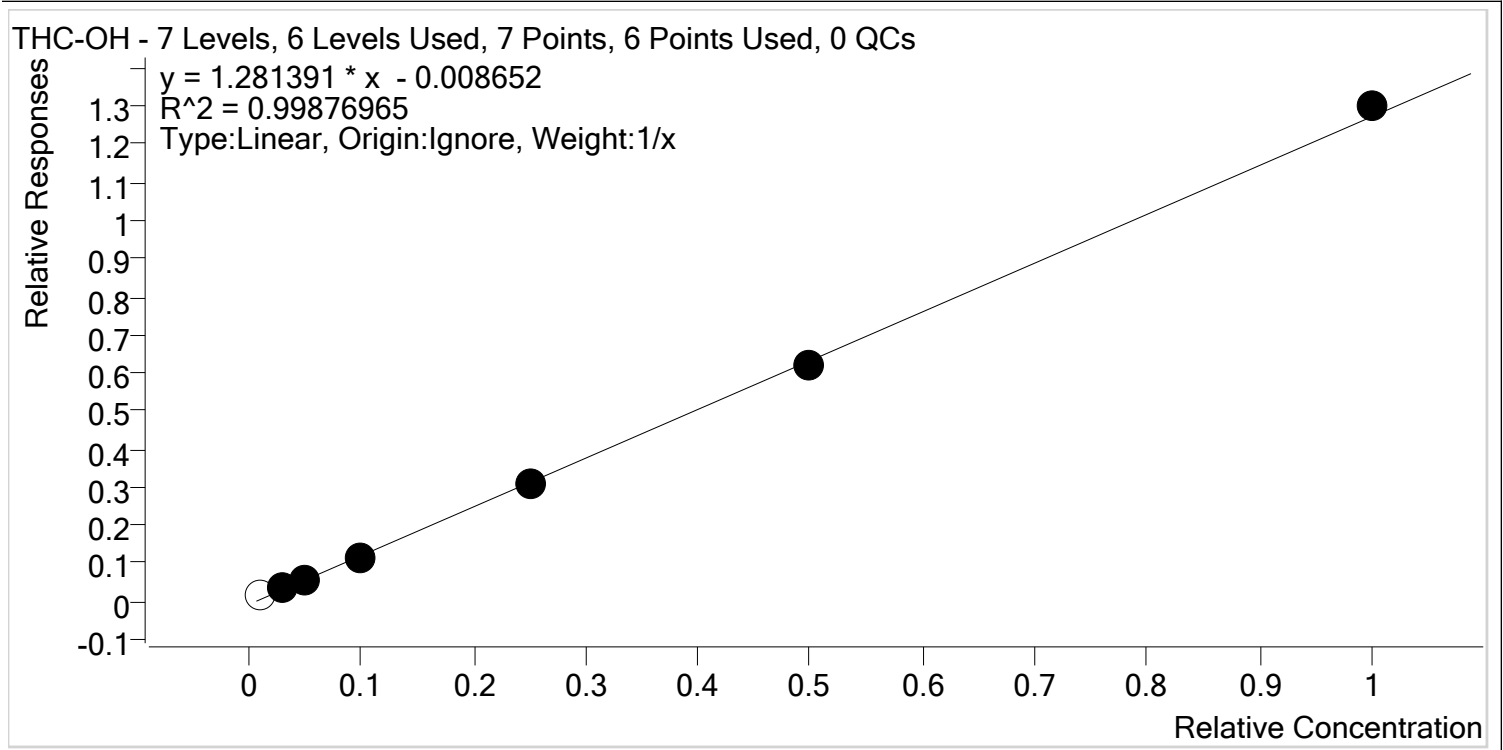


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.1	102.8
MJ Cal 2	2	✓	10.0	9.6	96.1
MJ Cal 3	3	✓	20.0	19.1	95.4
MJ Cal 4	4	✓	50.0	50.8	101.6
MJ Cal 5	5	✓	75.0	75.4	100.5
MJ Cal 6	6	✓	100.0	101.7	101.7
MJ Cal 7	7	✓	250.0	254.7	101.9



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Last Cal. Update 1/7/2020 1:37 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	x	1.0	2.1	207.7
MJ Cal 2	2	✓	3.0	3.4	111.8
MJ Cal 3	3	✓	5.0	4.9	97.1
MJ Cal 4	4	✓	10.0	9.3	93.1
MJ Cal 5	5	✓	25.0	24.6	98.3
MJ Cal 6	6	✓	50.0	48.8	97.6
MJ Cal 7	7	✓	100.0	102.1	102.1

CS

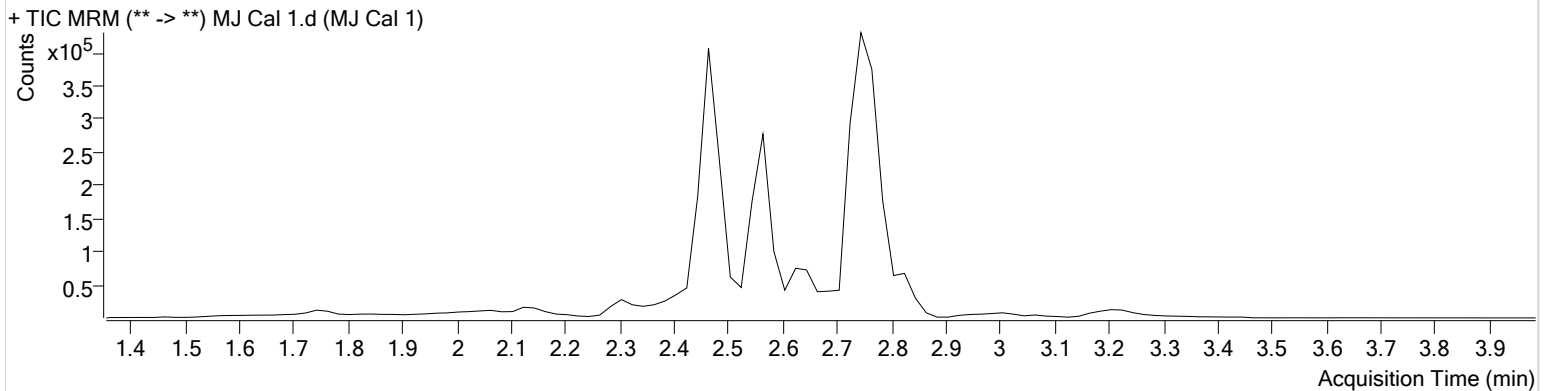


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-A1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 1:55:01 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.819	1317	71125	1.0977 ng/ml	Low
THC-COOH	2.565	28755	442900	5.1389 ng/ml	
THC-OH	2.471	17621	981006	2.0770 ng/ml	Low

AM #26 Cannabinoids Screen Results

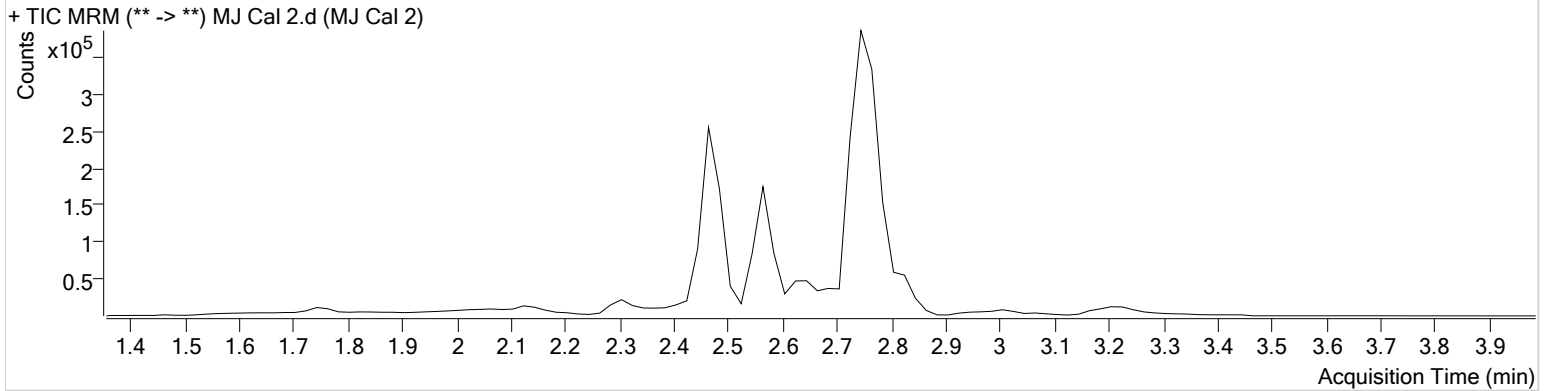


Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-B1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:01:41 AM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.819	2887	70749	2.8623 ng/ml	Low
THC-COOH	2.565	38064	277856	9.6095 ng/ml	
THC-OH	2.471	21663	630869	3.3550 ng/ml	

CS

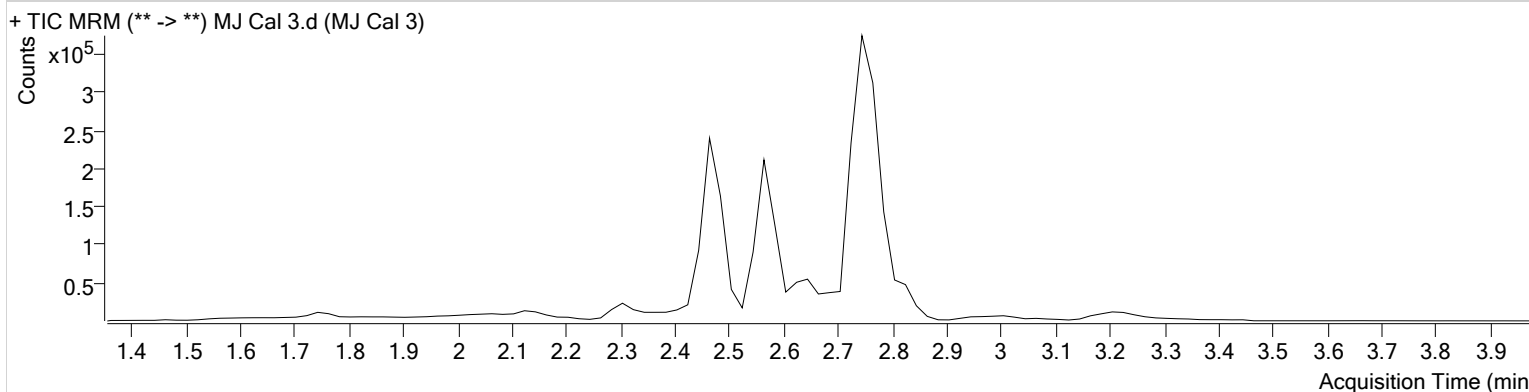


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-C1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:08:11 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	3737	61509	4.4420 ng/ml
THC-COOH	2.565	79543	274482	19.0885 ng/ml
THC-OH	2.471	31762	593284	4.8531 ng/ml

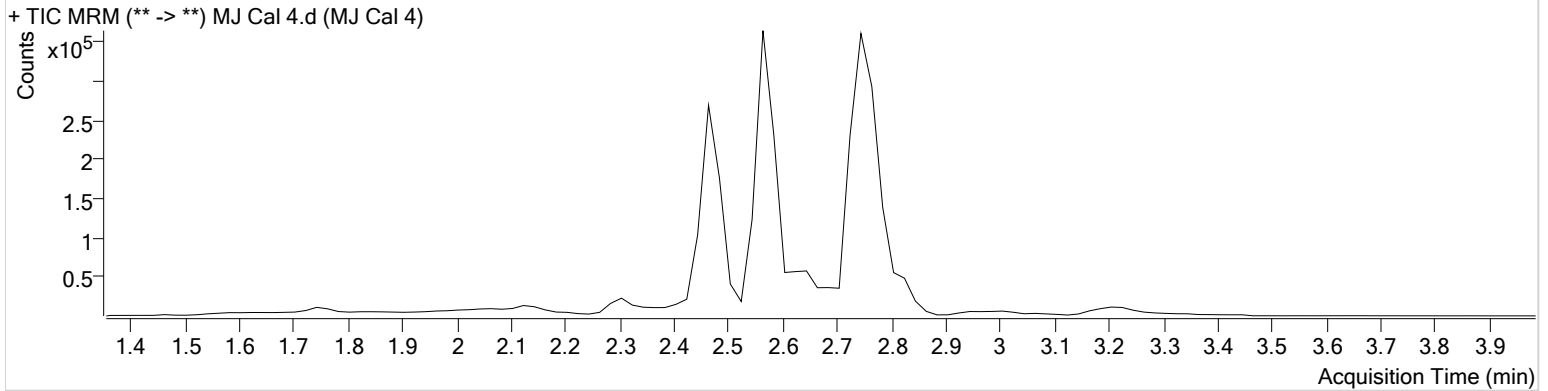
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-D1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:14:42 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	7493	54092	10.5980 ng/ml
THC-COOH	2.565	225557	281631	50.7942 ng/ml
THC-OH	2.471	60982	551144	9.3101 ng/ml

CS

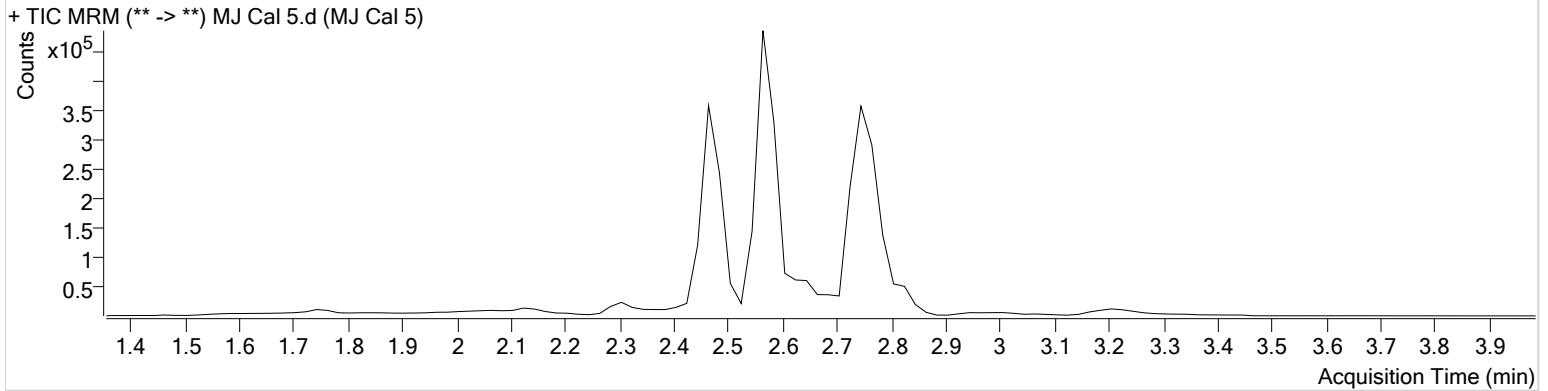


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument Falco **Data File** MJ Cal 5.d
Type Cal **Sample** MJ Cal 5
Acq. Method am 26 test.m **Operator** Celena Shrum
Sample Position P3-E1 **Comment**
Injection Volume 10
Acq. Date-Time 1/4/2020 2:21:12 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	10913	62228	13.5152 ng/ml
THC-COOH	2.565	345050	288272	75.3635 ng/ml
THC-OH	2.471	192884	629794	24.5762 ng/ml

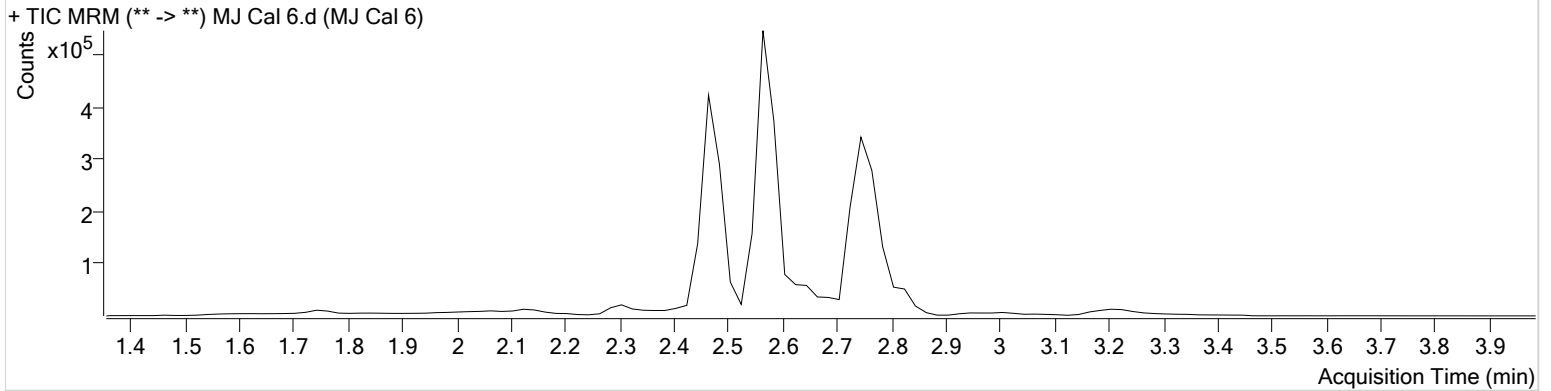
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-F1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:27:42 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	16870	49055	26.8574 ng/ml
THC-COOH	2.565	416956	257086	101.7215 ng/ml
THC-OH	2.471	364303	590824	48.7949 ng/ml

AM #26 Cannabinoids Screen Results

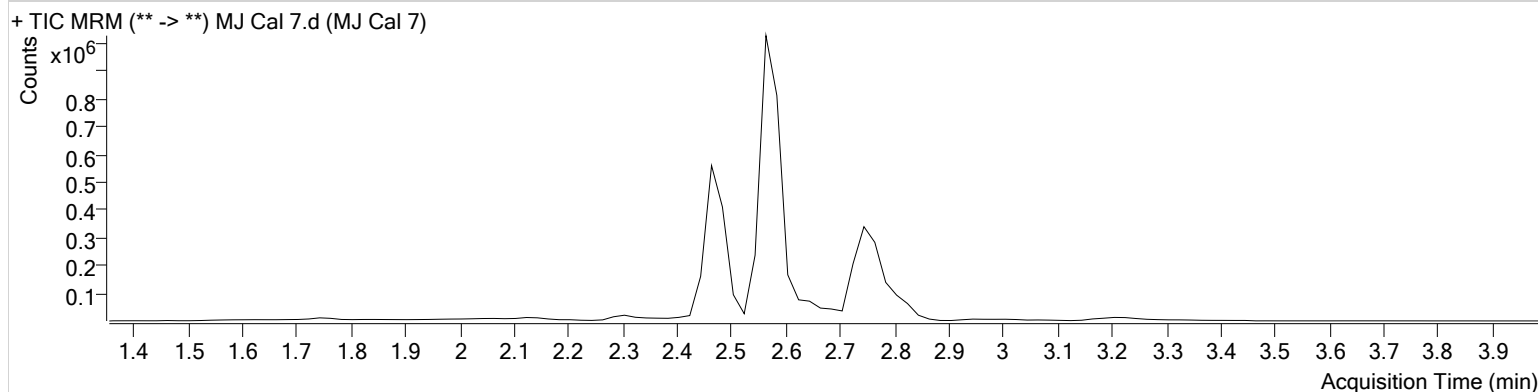


Batch results D:\MassHunter\Data\2020\AM 25-26\AM 25-26 Combo Worklist 3924\QuantResults\AM 26 010320 CS.batch.bin
Calibration Last Update 1/7/2020 1:37:27 PM

Instrument	Falco	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	am 26 test.m	Operator	Celena Shrum
Sample Position	P3-G1	Comment	
Injection Volume	10		
Acq. Date-Time	1/4/2020 2:34:12 AM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.819	76134	50638	118.6589 ng/ml
THC-COOH	2.565	946568	231527	254.7287 ng/ml
THC-OH	2.471	741677	570615	102.1107 ng/ml