

REVIEWED

By Sarah Collins at 10:30 am, Jul 14, 2021

7/1/2021











29

Worklist: 5075

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-2405	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2413	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2438	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-3404	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1512	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1644	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1647	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1654	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1655	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1700	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1720	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1720	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1721	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1724	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1752	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1757	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1977	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1982	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1984	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1985	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1986	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 5075

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-1987	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1988	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1989	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1997	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2014	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2019	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2029	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2030	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2031	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2041	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: 07/01/2021

Analyst: Celena Shrum

Plate lot#: 210611

Plate Expiration: 12/11/2021

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 20L20723

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** into wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 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. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. 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:

CS

	1	2	3	4	5	6	7	8	9	10	11	12
A	CAL	P2021-1644-1	P2021-1724-1	P2021-1987-1	P2021-2031-1							
B	CAL	P2021-1647-1	P2021-1752-4	P2021-1988-1	P2021-2041-1							
C	Blood NC	P2021-1654-1	P2021-1757-1	P2021-1989-1	P2021-2019-1							
D	M2021-2405-2	P2021-1655-1	P2021-1977-1	P2021-1997-1								
E	M2021-2413-1	P2021-1700-1	P2021-1982-1	P2021-2014-1								
F	M2021-2438-1	P2021-1720-1	P2021-1984-1									
G	P2020-3404-1	P2021-1720-2	P2021-1985-1	P2021-2029-1								
H	P2021-1512-3	P2021-1721-1	P2021-1986-1	P2021-2030-1								

Samples were all moved one column over to the right (i.e. samples in column 1 were all moved to column 2) during the SLE portion of the extraction

~~P2021-2041-1~~ was moved during the SLE portion of the extraction from ~~F4 to C5~~ due to clotting

P2021-2019-1 CS 7-14-21

F5 to C6 CS 7-14-21

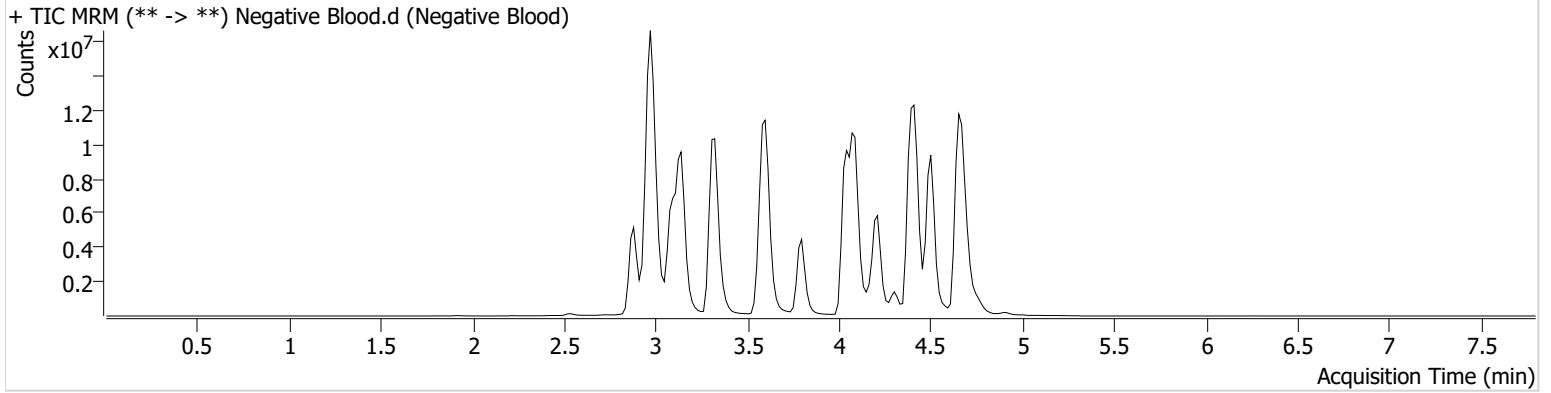
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 7/7/2021 11:09:10 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-C2	Comment	
Injection Volume	5		
Acq. Date-Time	7/2/2021 11:40:26 AM		
Sample Info.			

Sample Chromatogram



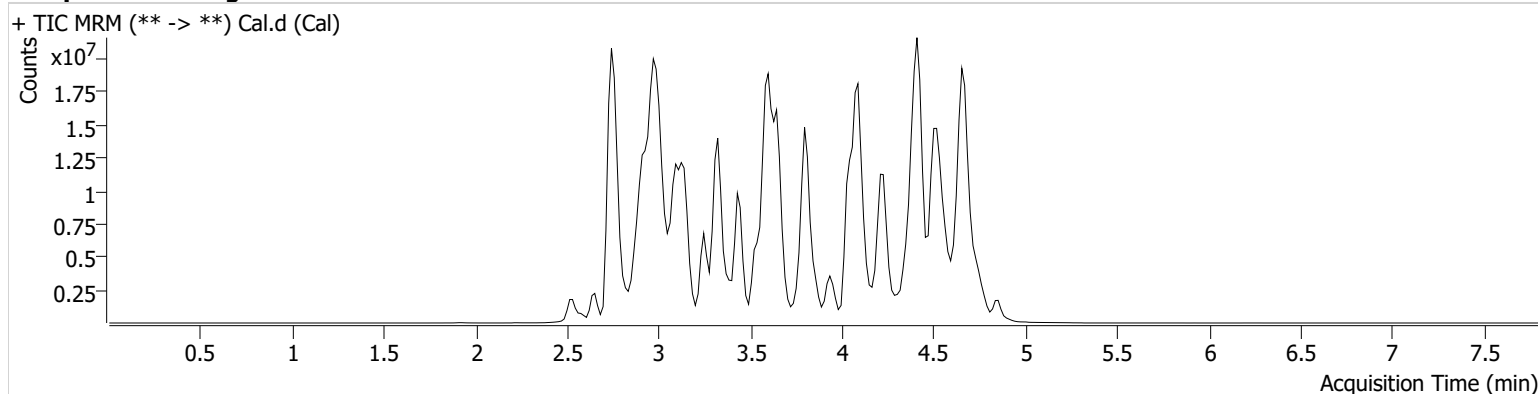
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 7/7/2021 11:09:10 AM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-B2	Comment	
Injection Volume	5		
Acq. Date-Time	7/2/2021 11:31:52 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.999	97362	498.67	35641.11	3190943	10.0000
7-aminoclonazepam	3.569	1268002	6172.21	3095838.10	8625398	10.0000
7-aminoflunitrazepam	3.783	3293283	685.78	113.25	8625398	10.0000
Acetyl Fentanyl	3.948	144800	54.48	269.86	33765006	10.0000
Acetyl Norfentanyl	2.916	527252	194.01	129.26	33765006	10.0000
a-hydroxyalprazolam	4.515	706256	304.88	338789.94	8625398	10.0000
alpha-hydroxymidazolam	4.591	2063921	310.19	930.76	8625398	10.0000
Alpha-PHP	3.865	4197959	2943.11	1822.06	33765006	10.0000
alpha-PVP	3.590	6146592	1024.85	3293.70	14186117	10.0000
Alprazolam	4.626	5700298	1024.53	13034646.98	36476067	10.0000
Amitriptyline	4.461	141617	12.55	187.07	704072	10.0000
Amphetamine	2.920	5092904	1007.78	2709.58	14186117	10.0000
Benzoylcegonine	3.369	484838	36019.76	1235.92	746610	10.0000
Brompheniramine	4.056	40149	56.02	732.40	30770798	10.0000
Buprenorphine	4.786	418001	43628.76	52861.50	1839261	10.0000
Bupropion	3.819	2980061	490.70	2595.66	12220019	10.0000
Carbamazepine	4.234	19194402	∞	2077.41	1414846	10.0000
Carisoprodol	4.217	2388049	2975.19	399.62	14458830	10.0000
Chlordiazepoxide	4.735	2241747	313.45	2268.73	36476067	10.0000
Chlorpheniramine	3.954	3618125	900.83	64.35	30770798	10.0000
Citalopram	4.071	1851526	231.68	469867.41	30770798	10.0000
Clomipramine	4.670	216192	430.91	328.24	30770798	10.0000
Clonazepam	4.440	3485713	856.92	2634.66	36476067	10.0000
Clonazolam	4.375	3536912	1716295.26	921858.48	36476067	10.0000
Cocaethylene	3.811	7201412	5206.17	2290.33	35696686	10.0000
Cocaine	3.598	8474797	3992652.63	957.91	35696686	10.0000
Codeine	2.942	678450	92491.92	366.88	19383618	10.0000
Cyclobenzaprine	4.370	265234	81.21	9.04	704072	10.0000
Desipramine	4.386	308854	118.67	36.18	704072	10.0000
Dextromethorphan	4.093	772701	207.85	314.02	4126078	10.0000
Dextrorphan	3.387	3639884	2109.89	1143458.26	4126078	10.0000
Diazepam	4.858	2552446	1877.33	1332.69	36476067	10.0000
Dihydrocodeine	2.835	1706415	456.49	631.86	19383618	10.0000
Diphenhydramine	4.047	4926978	934.93	492.46	30770798	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.184	357208	55.28	34.04	9396308	10.0000
Doxylamine	3.647	14473254	4769.39	41674.25	4126078	10.0000
EDDP	4.092	1549609	207.72	8207.94	3780498	10.0000
Estazolam	4.535	13241976	698.19	1063.43	36476067	10.0000
Etizolam	4.636	836609	630009.15	2252522.79	36476067	10.0000
Fentanyl	4.177	46383	16.90	16584.20	3964596	10.0000
Flualprazolam	4.484	2311095	16297.14	1499988.16	36476067	10.0000
Flunitrazepam	4.564	5966264	1938.27	1420271.17	36476067	10.0000
Fluoxetine	4.335	176911	56.57	6.60	397909	10.0000
Flurazepam	4.252	2411396	1196226.35	316282.87	36476067	10.0000
Hydrocodone	3.109	2772258	2355.17	982.34	19383618	10.0000
Hydromorphone	2.731	2003911	61777.87	368.35	322114	10.0000
Imipramine	4.414	624183	1207.63	90.37	704072	10.0000
Ketamine	3.651	6971842	635.25	189.76	25432371	10.0000
Lamotrigine	3.618	465826	475.88	87587.45	30770798	10.0000
Levamisole	3.054	5386664	5424.59	1242.96	35696686	10.0000
Levetiracetam	2.659	2285462	912.09	819.40	30770798	10.0000
Lorazepam	4.439	1248465	653.52	∞	36476067	10.0000
Maprotiline	4.461	110410	8.21	120.20	704072	10.0000
MDA	3.025	3542432	549.01	79.33	34270828	10.0000
MDEA	3.253	6057266	303.33	2212.27	34270828	10.0000
MDMA	3.101	7706206	960.59	358.20	34270828	10.0000
Meperidine	3.634	3128461	314.97	199.26	4126078	10.0000
Meprobamate	3.652	1341226	420.11	138.94	14458830	10.0000
Methadone	4.410	2285685	253.62	612.68	3780498	10.0000
Methamphetamine	3.011	9509425	253.69	671.37	34270828	10.0000
Methocarbamol	3.573	1110174	286.75	344.98	3780498	10.0000
Methylphenidate	3.528	13376368	1440.95	399.98	26282764	10.0000
Metoprolol	3.448	1101929	637.62	1511587.01	4126078	10.0000
Midazolam	4.775	691740	670243.53	552460.33	36476067	10.0000
Mirtazapine	4.109	2036212	893.11	2882.93	4126078	10.0000
Mitragynine	4.251	74207	39767.24	136946.70	4126078	10.0000
Morphine	2.580	441717	∞	84.68	322114	10.0000
Norbuprenorphine	3.853	43472	21362.20	34845.29	1839261	10.0000
Nordiazepam	4.692	3140156	1446.80	633.72	36476067	10.0000
Norfentanyl	3.329	8795233	498.78	502.92	33765006	10.0000
Norhydrocodone	2.959	64246	56.83	8.60	322114	10.0000
Norketamine	3.774	1097610	296.96	2095.56	25432371	10.0000
Normeperidine	3.605	1646796	241.81	164.85	30770798	10.0000
Noroxycodone	2.911	2360052	412.12	160.01	25432371	10.0000
Nortriptyline	4.432	82191	49.29	152.31	704072	10.0000
O-desmethyl-tramadol	2.930	13545884	1122.47	2060.99	30770798	10.0000
Olanzapine	3.505	44658	32886.20	904.57	1414846	10.0000
Oxazepam	4.505	5546844	2045.05	338.18	25630614	10.0000
Oxycodone	2.985	5328744	921.64	559.00	25432371	10.0000
Oxymorphone	2.516	2437448	5400.96	81063.74	322114	10.0000
Paroxetine	4.361	24388	154.90	16150.44	397909	10.0000
Phenazepam	4.636	4553067	2051.54	2023.78	36476067	10.0000
Phencyclidine	3.941	4576544	2592.49	656.97	4126078	10.0000
Phentermine	3.164	2280131	202.29	20.18	26282764	10.0000
Phenytoin	4.126	2441432	445.69	∞	1414846	10.0000
Promethazine	4.383	677890	374465.58	34.89	30770798	10.0000
Pseudoephedrine	2.751	56520791	15663.24	35560.32	34270828	10.0000
Quetiapine	4.574	2459890	1281.40	636027.51	49852666	10.0000
Sertraline	4.580	64533	29142.88	73.24	397909	10.0000
Sufentanil	4.558	28003	29603.05	70.64	33765006	10.0000
Tapentadol	3.438	8315686	1511.38	10969.69	25432371	10.0000
Temazepam	4.673	9810047	2294.06	343.11	36476067	10.0000
Tramadol	3.433	14887410	2374.91	455.34	30770798	10.0000
Trazodone	4.742	2095510	29385.07	437.45	9396308	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.800	10350510	858.58	392.60	397909	10.0000
Zaleplon	4.351	6307828	10224.21	856.47	49852666	10.0000
Zolpidem	4.411	16229055	5905.23	1295.99	49852666	10.0000
Zopiclone	4.313	788497	1060.39	13307.78	4251521	10.0000

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

Extraction Date: 07/01/2021

Analyst: Celena Shrum

Plate lot#: IDP-108-2-210412

Plate Expiration: 10/12/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: Lampire 20L20723

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 (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, 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: The run stopped due to a clogged line and had to be restarted. The run finished with no further issues. Calibrators 3 and 4 were removed for THC-COOH due to the tops of the peaks cutting off.

	1	2	3	4	5	6
a	cal 1ng	Blood NC	P2021-1654-1	P2021-1757-1		M2021-2413-1
b	cal 3 ng	M2021-2405-2	P2021-1655-1		P2021-1997-1	P2021-1977-1
c	cal 5 ng		P2021-1700-1	P2021-1982-1	P2021-2014-1	P2021-1989-1
d	cal 10ng	M2021-2438-1	P2021-1720-1	P2021-1984-1		P2021-2019-1
e	cal 25 ng	P2020-3404-1	P2021-1720-2	P2021-1985-1	P2021-2029-1	
f	cal 50 ng	P2021-1512-3	P2021-1721-1	P2021-1986-1	P2021-2030-1	
g	cal 100 ng	P2021-1644-1	P2021-1724-1	P2021-1987-1	P2021-2031-1	
h	QC 1	P2021-1647-1	P2021-1752-4	P2021-1988-1	P2021-2041-1	

M2021-2413-1 was moved from C2 to A6 during the SLE portion of the extraction due to clotting

P2021-1977-1 was moved from B4 to B6 during the SLE portion of the extraction due to clotting

P2021-1989-1 was moved from A5 to C6 during the SLE portion of the extraction due to clotting

P2021-2019-1 was moved from D5 to D6 during the SLE portion of the extraction due to clotting

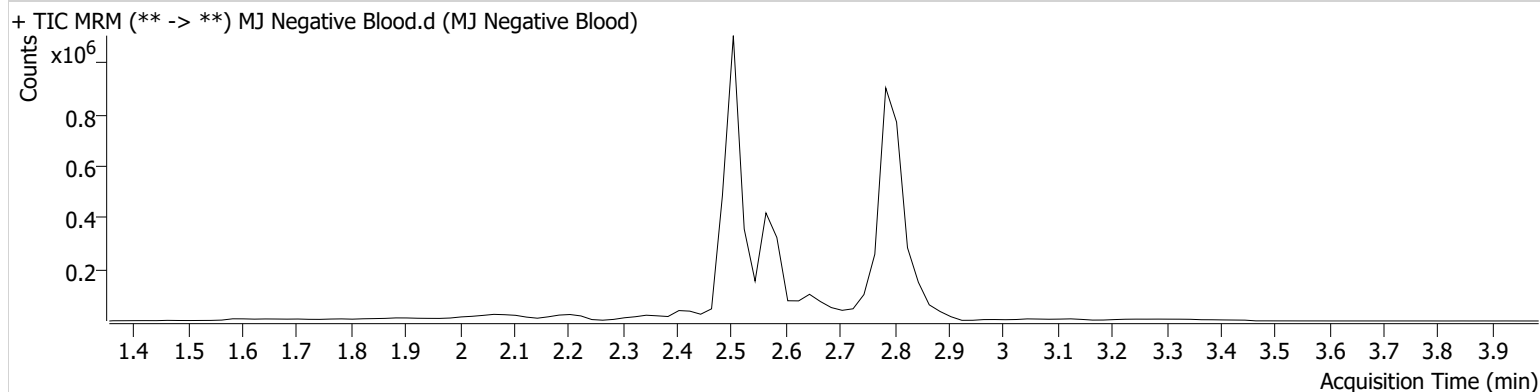
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-A2	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 4:28:03 PM		
Sample Info.			

Sample Chromatogram



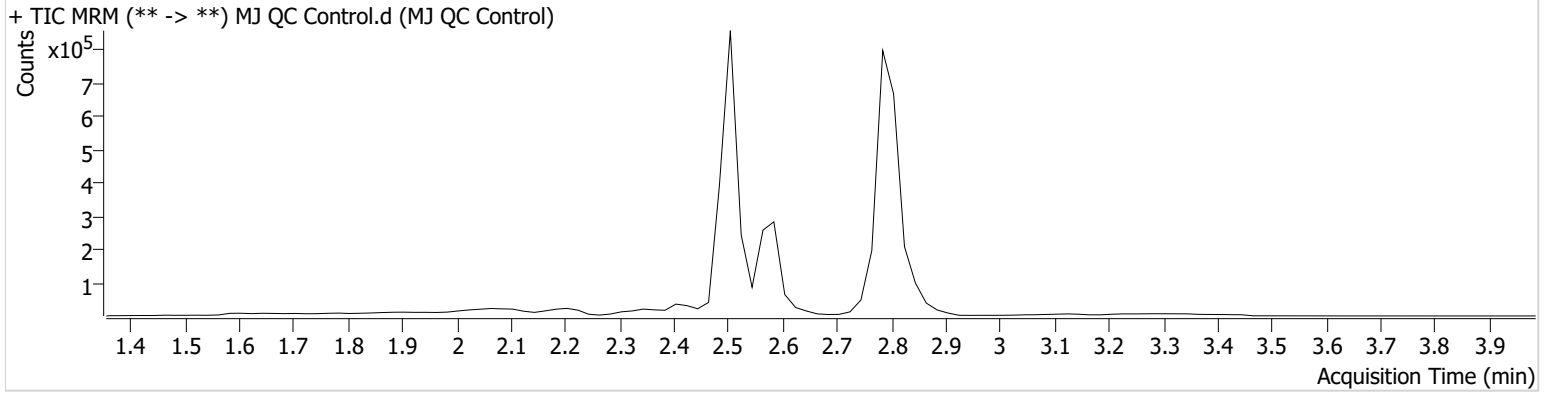
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ QC Control.d
Type	Sample	Sample	MJ QC Control
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 4:14:59 PM		
Sample Info.			

Sample Chromatogram

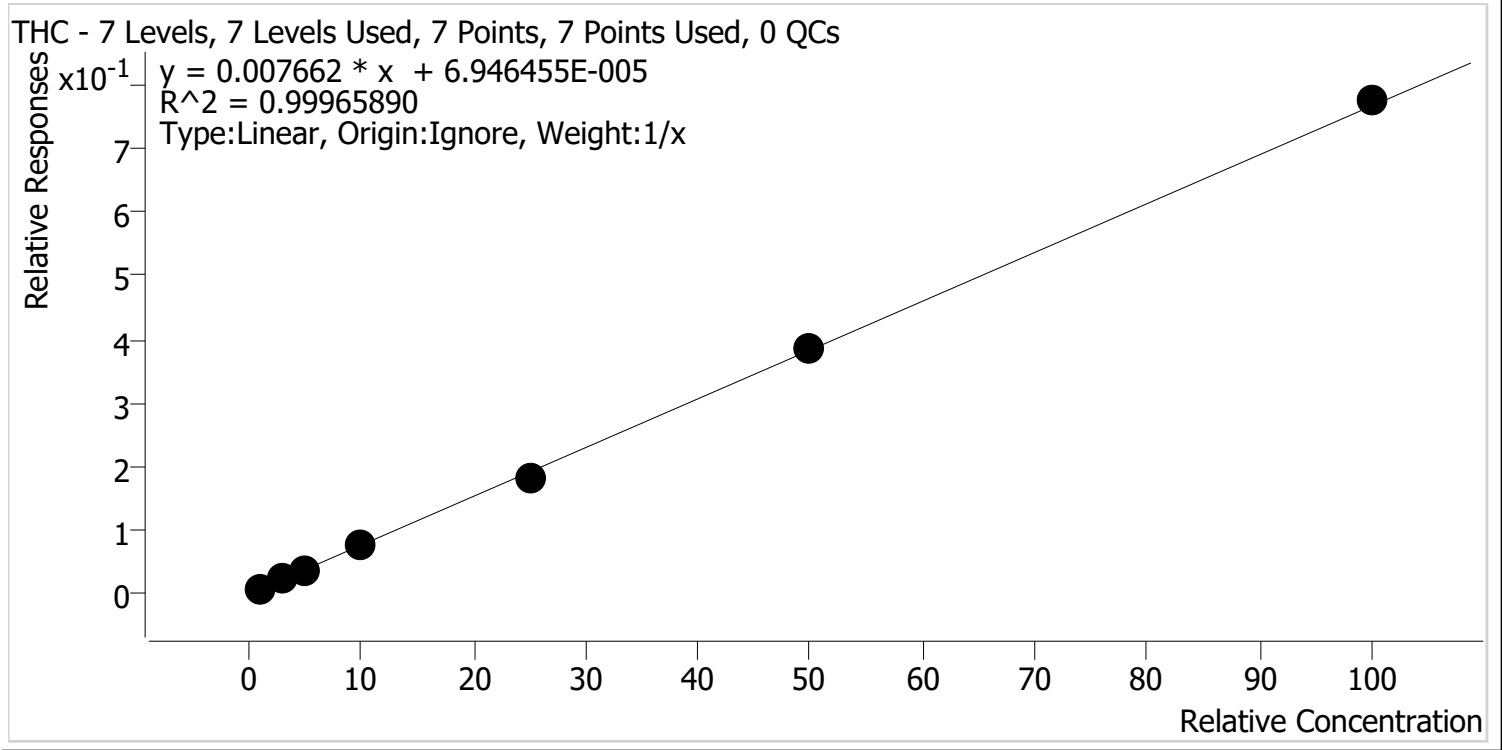


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	4192	117544	4.6457 ng/ml
THC-COOH	2.587	91116	396222	19.9133 ng/ml
THC-OH	2.514	14601	1709362	4.6199 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 7/7/2021 11:08 AM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3

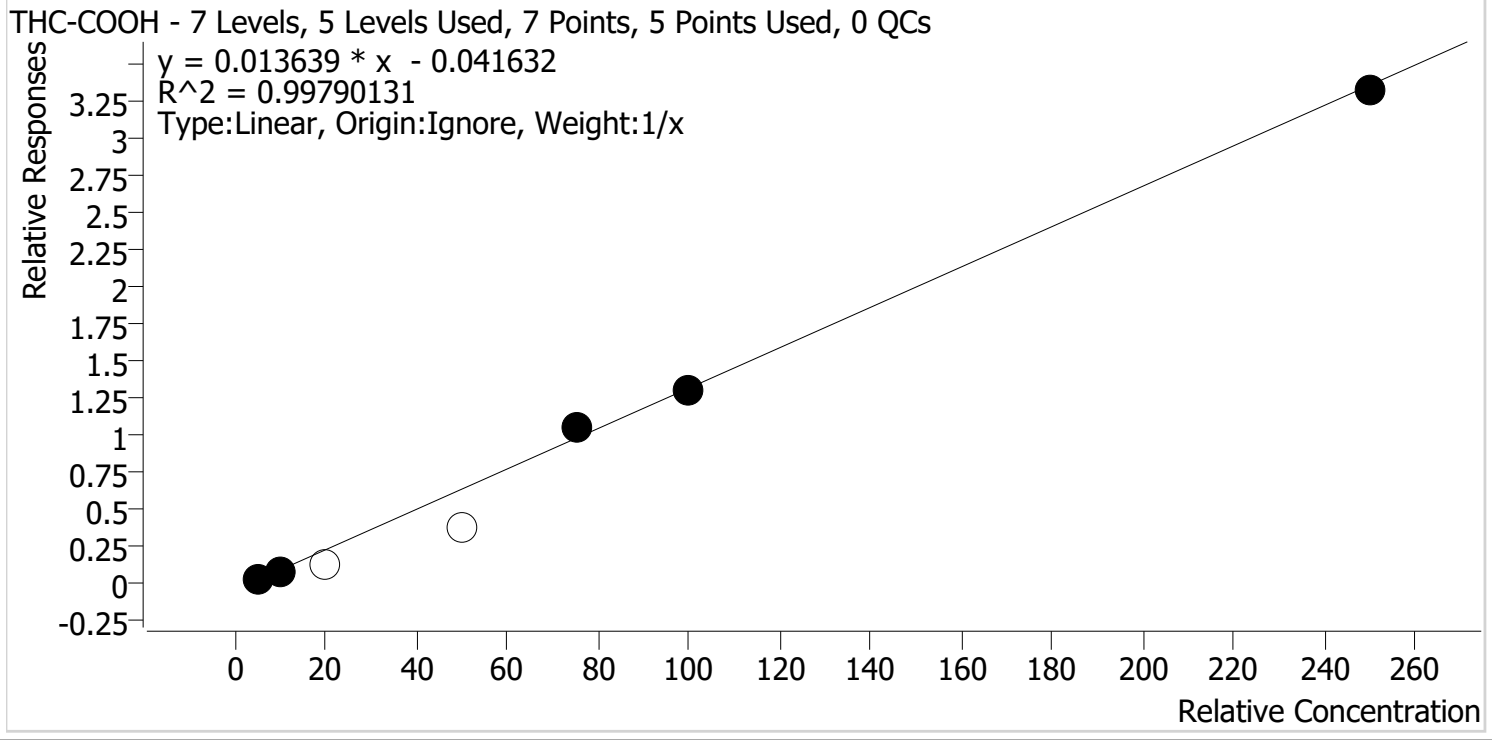


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.1	108.4
MJ Cal 2	2	✓	3.0	2.9	96.2
MJ Cal 3	3	✓	5.0	5.0	99.3
MJ Cal 4	4	✓	10.0	9.9	98.6
MJ Cal 5	5	✓	25.0	24.1	96.5
MJ Cal 6	6	✓	50.0	50.0	100.0
MJ Cal 7	7	✓	100.0	101.1	101.1



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 7/7/2021 11:08 AM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



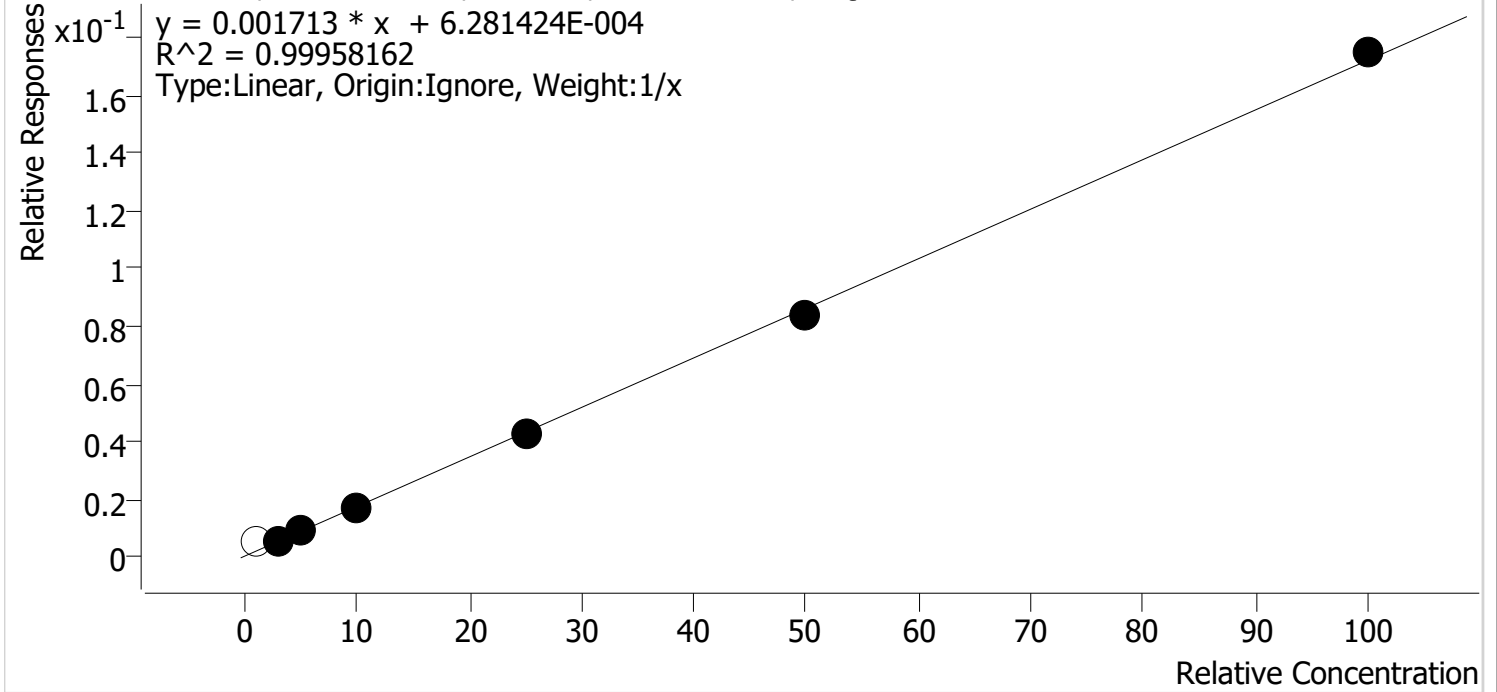
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.5	110.9
MJ Cal 2	2	✓	10.0	8.5	84.6
MJ Cal 3	3	✗	20.0	13.2	65.8
MJ Cal 4	4	✗	50.0	31.2	62.4
MJ Cal 5	5	✓	75.0	80.5	107.4
MJ Cal 6	6	✓	100.0	98.2	98.2
MJ Cal 7	7	✓	250.0	247.3	98.9



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 7/7/2021 11:08 AM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	3.3	328.4
MJ Cal 2	2	✓	3.0	3.1	103.4
MJ Cal 3	3	✓	5.0	5.0	100.3
MJ Cal 4	4	✓	10.0	9.9	98.8
MJ Cal 5	5	✓	25.0	24.5	98.1
MJ Cal 6	6	✓	50.0	48.9	97.9
MJ Cal 7	7	✓	100.0	101.5	101.5

CS

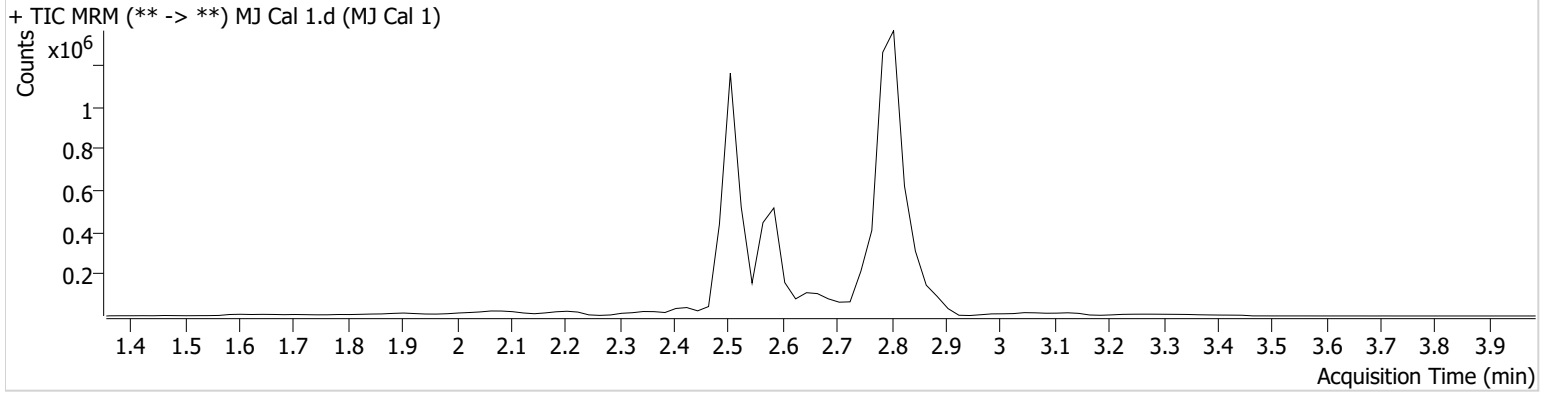


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 3:29:09 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	2102	251049	1.0835 ng/ml	Low
THC-COOH	2.607	28449	836974	5.5445 ng/ml	
THC-OH	2.574	16534	2643879	3.2842 ng/ml	

AM #26 Cannabinoids Screen Results

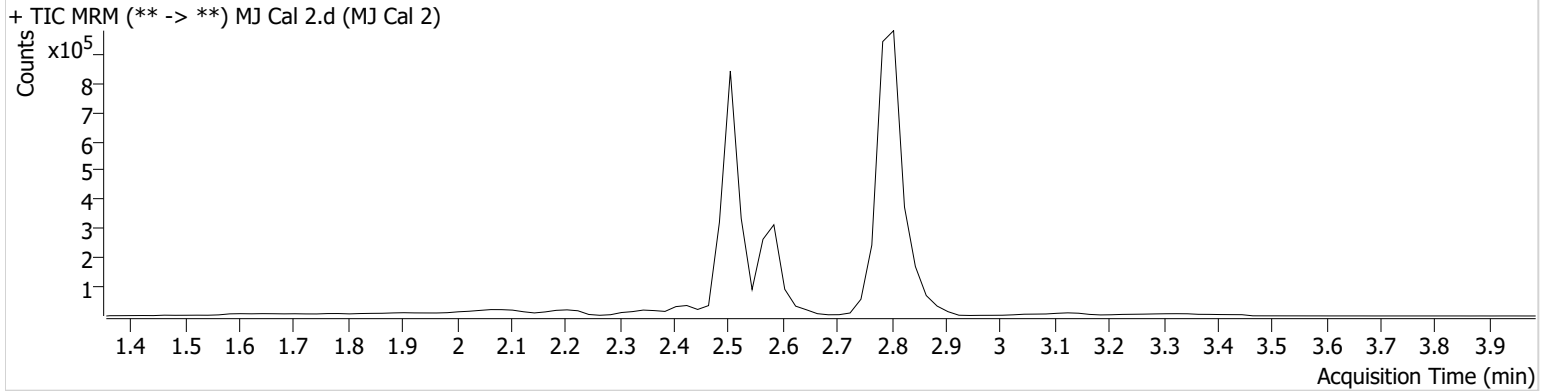


Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 3:35:50 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	3374	152156	2.8851 ng/ml	Low
THC-COOH	2.567	38940	527697	8.4629 ng/ml	
THC-OH	2.514	10417	1753620	3.1010 ng/ml	

AM #26 Cannabinoids Screen Results

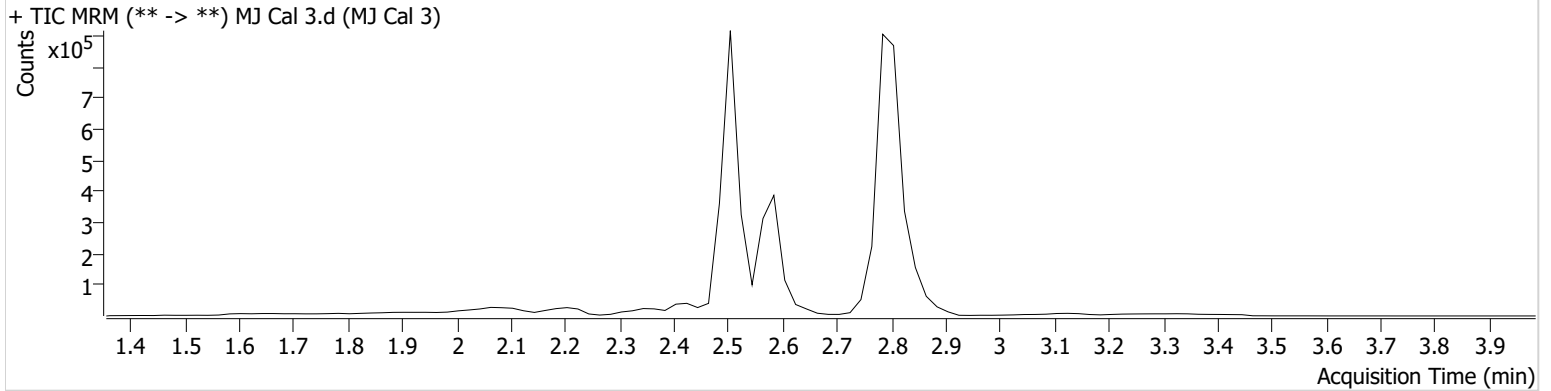


Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 3:42:21 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	5568	146090	4.9659 ng/ml
THC-COOH	2.567	74862	543533	13.1509 ng/ml
THC-OH	2.514	16909	1834881	5.0132 ng/ml

CG

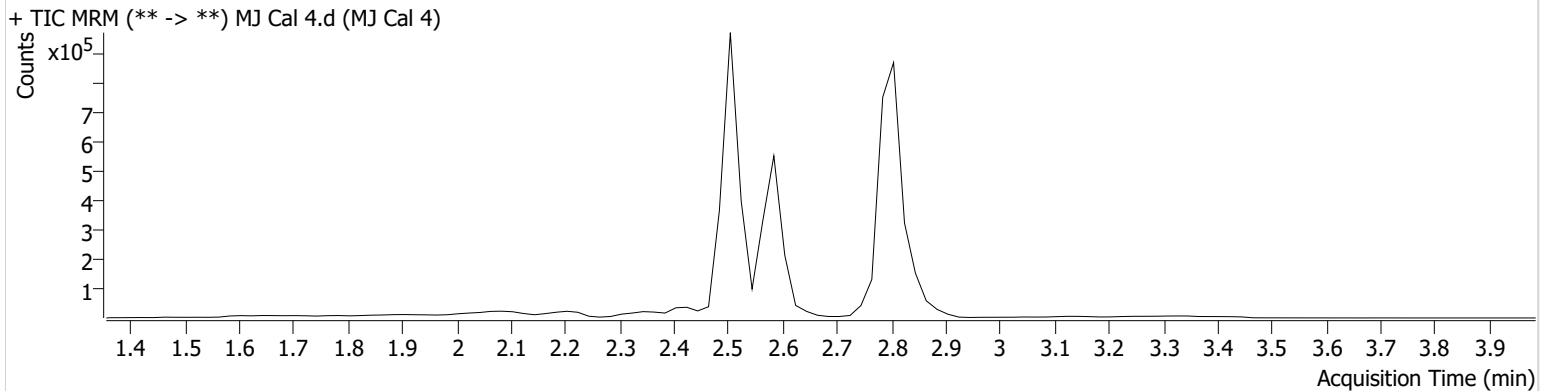


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 3:48:53 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	9690	128178	9.8584 ng/ml
THC-COOH	2.607	189744	493874	31.2215 ng/ml
THC-OH	2.514	32848	1870847	9.8831 ng/ml

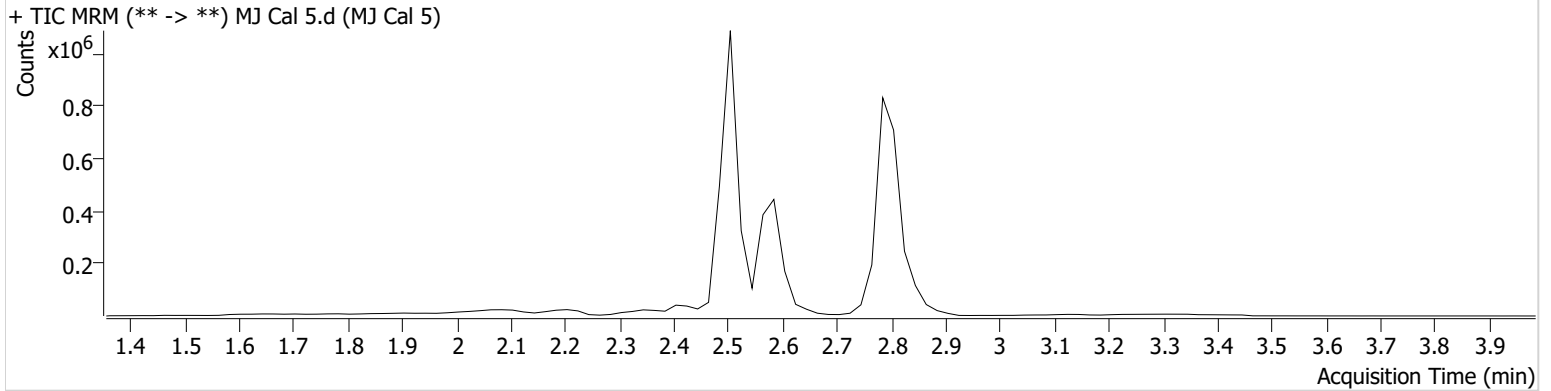
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 3:55:24 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	22850	123626	24.1158 ng/ml
THC-COOH	2.587	384416	363809	80.5252 ng/ml
THC-OH	2.514	73207	1716480	24.5313 ng/ml

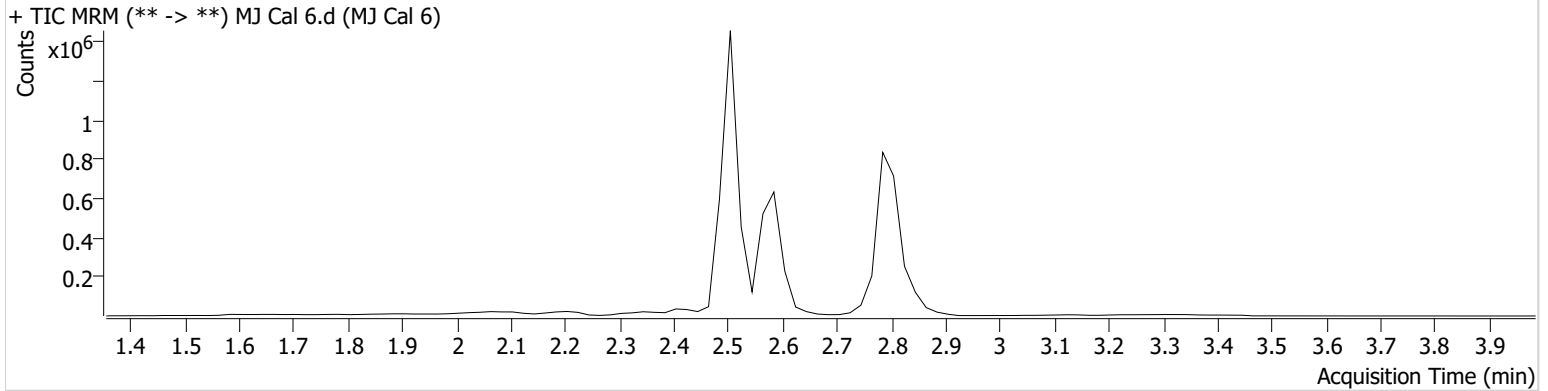
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 4:01:55 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	46905	122372	50.0193 ng/ml
THC-COOH	2.587	595377	458743	98.2102 ng/ml
THC-OH	2.514	149937	1775138	48.9421 ng/ml

AM #26 Cannabinoids Screen Results

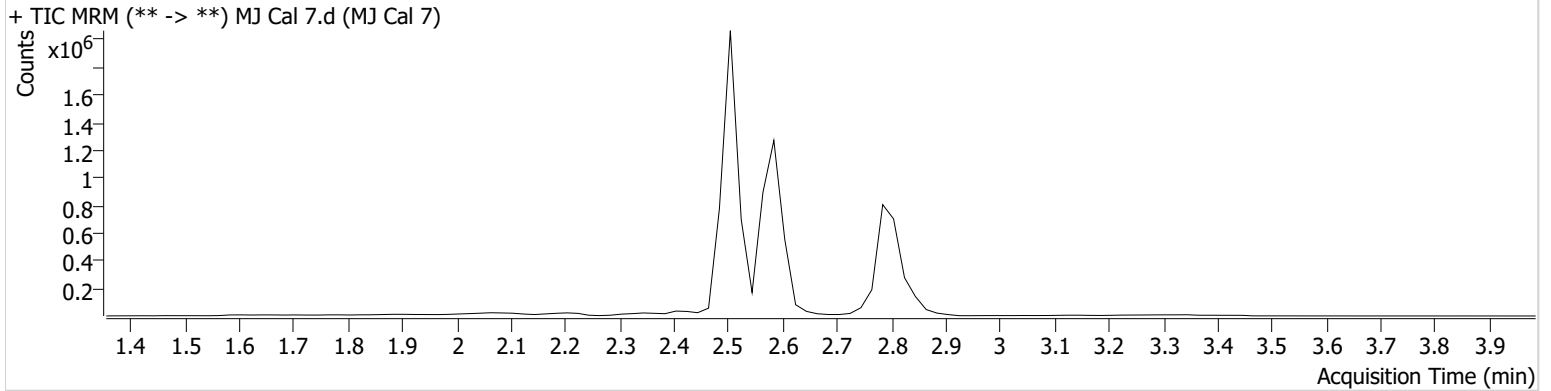


Batch results D:\MassHunter\Data\2021\AM 25-26\070121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 7/7/2021 11:08:14 AM

Instrument	Falco (069901)	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	7/1/2021 4:08:28 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	91728	118444	101.0719 ng/ml
THC-COOH	2.587	1464347	439655	247.2571 ng/ml
THC-OH	2.514	306488	1755922	101.5293 ng/ml