

**REVIEWED**

By Tamara Salazar at 11:28 am, Jul 26, 2021







7/20/2021

**Worklist: 5113**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-2376	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2435	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2691	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2803	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2804	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2820	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2839	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2946	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-2948	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3160	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1658	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1849	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2175	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2306	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2307	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2343	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2344	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2359	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2367	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2378	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2380	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

**Worklist: 5113**

SC

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-2381	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2382	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2385	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2406	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2418	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2420	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

SC

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

Extraction Date: 07/20/21  
Plate lot#: IDP-120-210611

Analyst: Sarah Collins  
Retest Date: 12/11/21

**Mobile phase A:** 10mM Amm Form  
Instant Buffer I

**Blank Blood Lot:** Lampire 20L20723  
**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 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:



SC

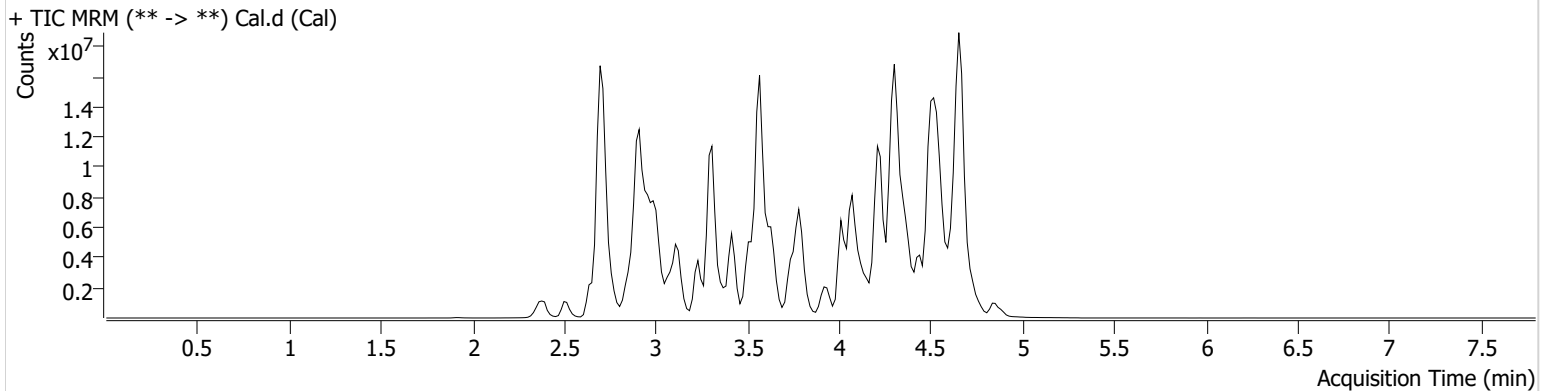
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 7/22/2021 11:06:40 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	Cal.d
<b>Type</b>	Cal	<b>Sample</b>	Cal
<b>Acq. Method</b>	AM 25 MDS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P2-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	7/20/2021 7:00:17 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.922	70008	74936.61	60077.14	2249887	10.0000
7-aminoclonazepam	3.584	1743791	8445025.20	250.79	11701865	10.0000
7-aminoflunitrazepam	3.783	4932783	24066.95	952.39	11701865	10.0000
Acetyl Fentanyl	3.856	64988	23.64	36810.61	27397814	10.0000
Acetyl Norfentanyl	2.886	418848	3360.12	992.40	27397814	10.0000
a-hydroxyalprazolam	4.515	691414	8808.95	506368.40	11701865	10.0000
alpha-hydroxymidazolam	4.591	2187183	244.91	43146.58	11701865	10.0000
Alpha-PHP	3.819	1749999	14529.46	4841.88	27397814	10.0000
alpha-PVP	3.544	3330649	416.60	237.57	4855024	10.0000
Alprazolam	4.626	5150389	527.49	1075.56	34984536	10.0000
Amitriptyline	4.431	309575	28.33	178.64	1312421	10.0000
Amphetamine	2.890	1867304	341.59	454.63	4855024	10.0000
Benzoylcegonine	3.385	522772	452693.52	52.61	909789	10.0000
Brompheniramine	4.026	22347	328.90	344.64	14959513	10.0000
Buprenorphine	4.573	208882	142467.59	19511.52	847981	10.0000
Bupropion	3.758	2117994	1586.46	450.96	8301604	10.0000
Carbamazepine	4.235	18768872	∞	1591.16	1497812	10.0000
Carisoprodol	4.217	2408401	1417914.13	71.59	15048528	10.0000
Chlordiazepoxide	4.735	1835720	3988.44	1069.33	34984536	10.0000
Chlorpheniramine	3.939	1843003	82.58	40.79	14959513	10.0000
Citalopram	4.055	931445	327.63	294999.72	14959513	10.0000
Clomipramine	4.624	603838	377278.63	2827.05	14959513	10.0000
Clonazepam	4.440	3165930	501.10	723.47	34984536	10.0000
Clonazolam	4.375	3577493	2149585.26	1162425.26	34984536	10.0000
Cocaethylene	3.780	3103798	4239.35	1746.20	22424866	10.0000
Cocaine	3.567	4574067	21564.97	704166.14	22424866	10.0000
Codeine	2.836	419344	508305.26	1108.39	11980478	10.0000
Cyclobenzaprine	4.339	426706	222.99	35.39	1312421	10.0000
Desipramine	4.370	791911	281.93	232.47	1312421	10.0000
Dextromethorphan	4.078	381651	433.68	112374.33	2129714	10.0000
Dextrorphan	3.372	1558591	796.71	415.79	2129714	10.0000
Diazepam	4.843	1447742	704.19	1179.01	34984536	10.0000
Dihydrocodeine	2.759	1327974	843.16	1552.60	11980478	10.0000
Diphenhydramine	4.017	1980687	1045.83	325.66	14959513	10.0000

Cal

SC

# AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.138	328228	169.71	29.68	6545992	10.0000
Doxylamine	3.632	6248544	205.29	1162.71	2129714	10.0000
EDDP	4.076	615463	210.74	476.60	1532799	10.0000
Estazolam	4.535	12135644	1315.77	1321.66	34984536	10.0000
Etizolam	4.636	780690	451024.42	1811702.55	34984536	10.0000
Fentanyl	4.085	47206	36.04	11136.65	3160171	10.0000
Flualprazolam	4.484	2066961	458.91	2311583.18	34984536	10.0000
Flunitrazepam	4.564	5966873	1971.34	4990.55	34984536	10.0000
Fluoxetine	4.319	465111	972459.30	112.45	1337066	10.0000
Flurazepam	4.175	910896	790309.43	129147.87	34984536	10.0000
Hydrocodone	3.018	1708623	759.62	277.05	11980478	10.0000
Hydromorphone	2.504	1835858	1797618.80	39518.37	250696	10.0000
Imipramine	4.383	914411	317.69	481.13	1312421	10.0000
Ketamine	3.513	4252997	54741.59	173.89	18652085	10.0000
Lamotrigine	3.587	320240	197.99	2822.94	14959513	10.0000
Levamisole	2.978	3036317	12977.17	332.78	22424866	10.0000
Levetiracetam	2.644	2384578	906.49	1171.29	14959513	10.0000
Lorazepam	4.439	1133653	622.84	∞	34984536	10.0000
Maprotiline	4.431	239689	41.60	22819.50	1312421	10.0000
MDA	2.994	1666237	1469.37	65.19	12513253	10.0000
MDEA	3.223	2507155	608.34	340.06	12513253	10.0000
MDMA	3.085	3385444	649.36	972.75	12513253	10.0000
Meperidine	3.588	912876	225.45	190.11	2129714	10.0000
Meprobamate	3.652	1474957	215765.42	2771.08	15048528	10.0000
Methadone	4.380	1113839	708.75	197.64	1532799	10.0000
Methamphetamine	2.996	2604196	153.05	2325.32	12513253	10.0000
Methocarbamol	3.573	707191	489.32	471.22	1532799	10.0000
Methylphenidate	3.513	5697435	402.39	1472.05	11741522	10.0000
Metoprolol	3.433	559655	364.40	463.95	2129714	10.0000
Midazolam	4.760	598553	1098.13	372396.69	34984536	10.0000
Mirtazapine	3.939	932835	403291.95	8930.57	2129714	10.0000
Mitragynine	4.190	58470	33757.15	1989.13	2129714	10.0000
Morphine	2.352	336638	582.14	476.11	250696	10.0000
Norbuprenorphine	3.822	18467	12489.56	35701.92	847981	10.0000
Nordiazepam	4.692	2881431	3020.05	280.20	34984536	10.0000
Norfentanyl	3.313	6569904	783.25	718.89	27397814	10.0000
Norhydrocodone	2.929	29064	23.99	23.26	250696	10.0000
Norketamine	3.606	695542	159.45	2356340.75	18652085	10.0000
Normeperidine	3.590	611577	447.48	227.24	14959513	10.0000
Noroxycodone	2.881	1427195	126.12	106.72	18652085	10.0000
Nortriptyline	4.417	288614	620.16	43.99	1312421	10.0000
O-desmethyl-tramadol	2.915	9582620	33307.85	215.70	14959513	10.0000
Olanzapine	3.812	320106	214163.80	238.54	1497812	10.0000
Oxazepam	4.505	5091978	1417.40	175.37	24226915	10.0000
Oxycodone	2.924	3776363	508.98	5811.71	18652085	10.0000
Oxymorphone	2.378	1916644	452.86	448.16	250696	10.0000
Paroxetine	4.331	73973	363.32	15072.18	1337066	10.0000
Phenazepam	4.636	3996674	15201.74	6569.06	34984536	10.0000
Phencyclidine	3.911	1660589	3426.66	382.38	2129714	10.0000
Phentermine	3.149	899514	195.02	9.88	11741522	10.0000
Phenytoin	4.126	2632292	689.12	1521.90	1497812	10.0000
Promethazine	4.337	1142402	43756.48	84.39	14959513	10.0000
Pseudoephedrine	2.705	46008129	1927.06	6598.69	12513253	10.0000
Quetiapine	4.451	1213441	338627.29	564366.25	42747291	10.0000
Sertraline	4.550	268080	99159.19	1593.77	1337066	10.0000
Sufentanil	4.436	30259	336.81	43.25	27397814	10.0000
Tapentadol	3.422	4076747	710.27	4945.15	18652085	10.0000
Temazepam	4.673	9680847	44951.24	413.55	34984536	10.0000
Tramadol	3.418	8601167	483.24	53.08	14959513	10.0000
Trazodone	4.590	1425376	775032.66	202.61	6545992	10.0000

Cal

SC

# AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.785	4596173	895.07	328.07	1337066	10.0000
Zaleplon	4.351	5859086	815.71	17184.12	42747291	10.0000
Zolpidem	4.304	12252393	1265.57	1622.39	42747291	10.0000
Zopiclone	4.160	784016	867307.46	382125.45	4117033	10.0000

SC

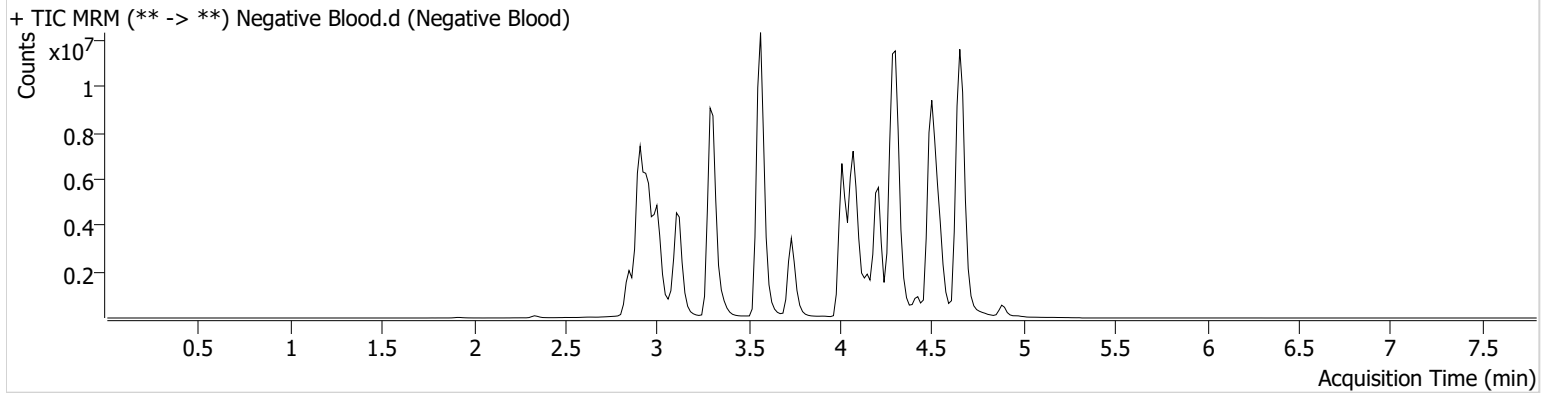


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 7/22/2021 11:06:40 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	Negative Blood
<b>Acq. Method</b>	AM 25 MDS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	7/20/2021 7:08:51 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





SC

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

Extraction Date: 07/20/21

Plate lot#: IDP-108-2-210609

10mM Ammonium Formate 01/27/2023 SC

**Mobile phase A:** ~~0.1% Formic Acid in LCMS Water~~

**Blank Blood Lot:** Lampire 20L20723

**LCMS-QQQ ID:** 069901

Analyst: Sarah Collins

Plate Expiration: 12/09/2021

0.1% Formic Acid in Methanol 01/27/2023 SC

**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, Curve weighting of Linear 1/x with  $r^2$  values  $\geq 0.98$  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: Did not evaluate THC due to accuracy falling out of line.

Calibrator 7 reinjected due to low internal standard response in initial injection.

SC

	1	2	3	4	5	6
A	IS + Cal. 1	negative blood	m2021-2946-1	p2021-2343-1	p2021-2385-2*	p2021-2420-1
B	IS + Cal. 2	m2021-2376-4	m2021-2948-1	p2021-2344-1	p2021-2406-1	
C	IS + Cal. 3	m2021-2435-1	m2021-3160-3	p2021-2359-1	p2021-2418-1	
D	IS + Cal. 4	m2021-2691-1	p2021-1658-1	p2021-2367-1*	p2021-2420-1*	
E	IS + Cal. 5	m2021-2803-1	p2021-1849-1	p2021-2378-1	p2021-2367-1	
F	IS + Cal. 6	m2021-2804-1	p2021-2175-1	p2021-2380-1*	p2021-2380-1	
G	IS + Cal. 7	m2021-2820-1	p2021-2306-1	p2021-2381-1*	p2021-2381-1	
H	IS + QC_1	m2021-2839-1	p2021-2307-1	p2021-2382-1	p2021-2385-2	

All wells to contain 100 µl of residual DMSO

\*Samples moved during analytical step 6 due to blood clot

SC

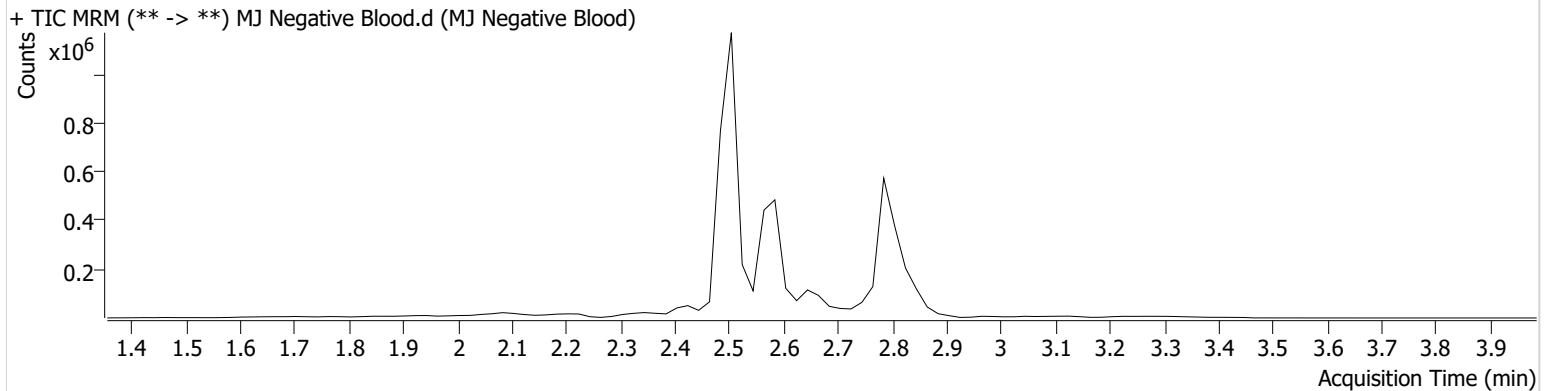


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	MJ Negative Blood
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-A2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 2:27:16 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC-OH	2.574	7153	2621737	1.5461 ng/ml	<b>Low</b>

SC

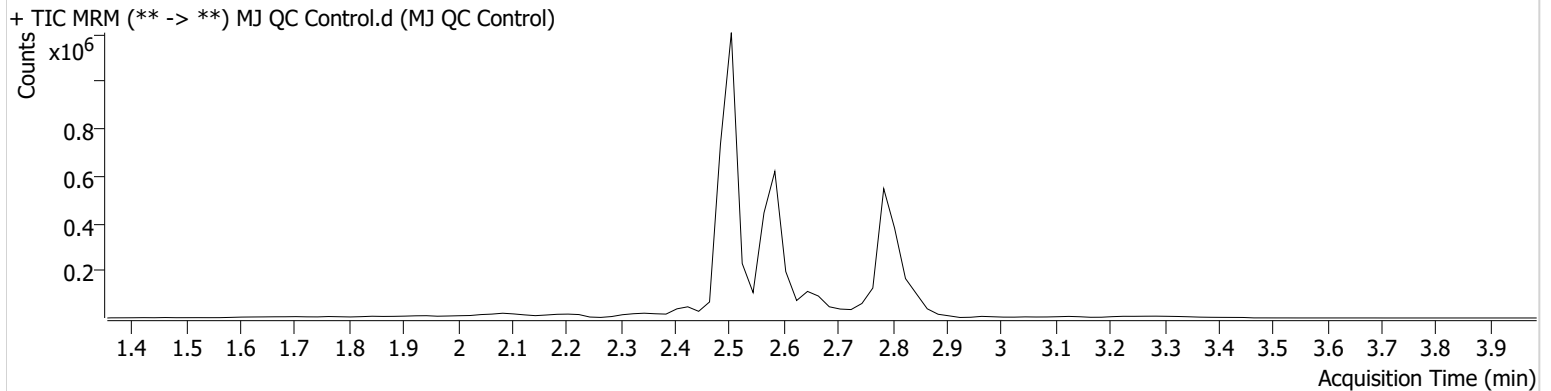


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ QC Control.d
<b>Type</b>	Sample	<b>Sample</b>	MJ QC Control
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 2:14:11 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	6822	187257	3.9434 ng/ml
THC-COOH	2.607	81875	774359	16.5328 ng/ml
THC-OH	2.514	27065	2468441	6.3642 ng/ml

SC

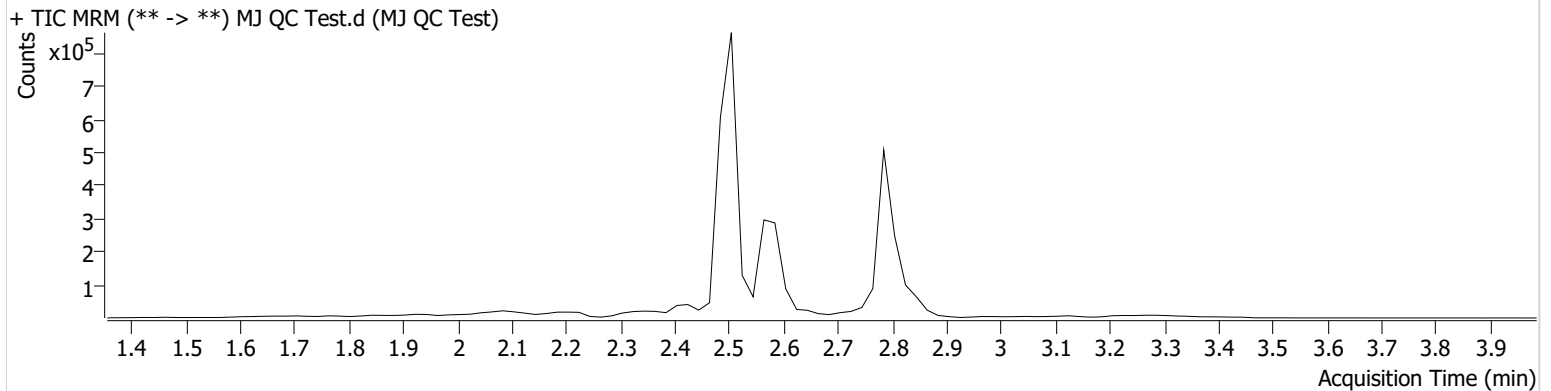


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/26/2021 9:24:40 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ QC Test.d
<b>Type</b>	Sample	<b>Sample</b>	MJ QC Test
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 5:36:32 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



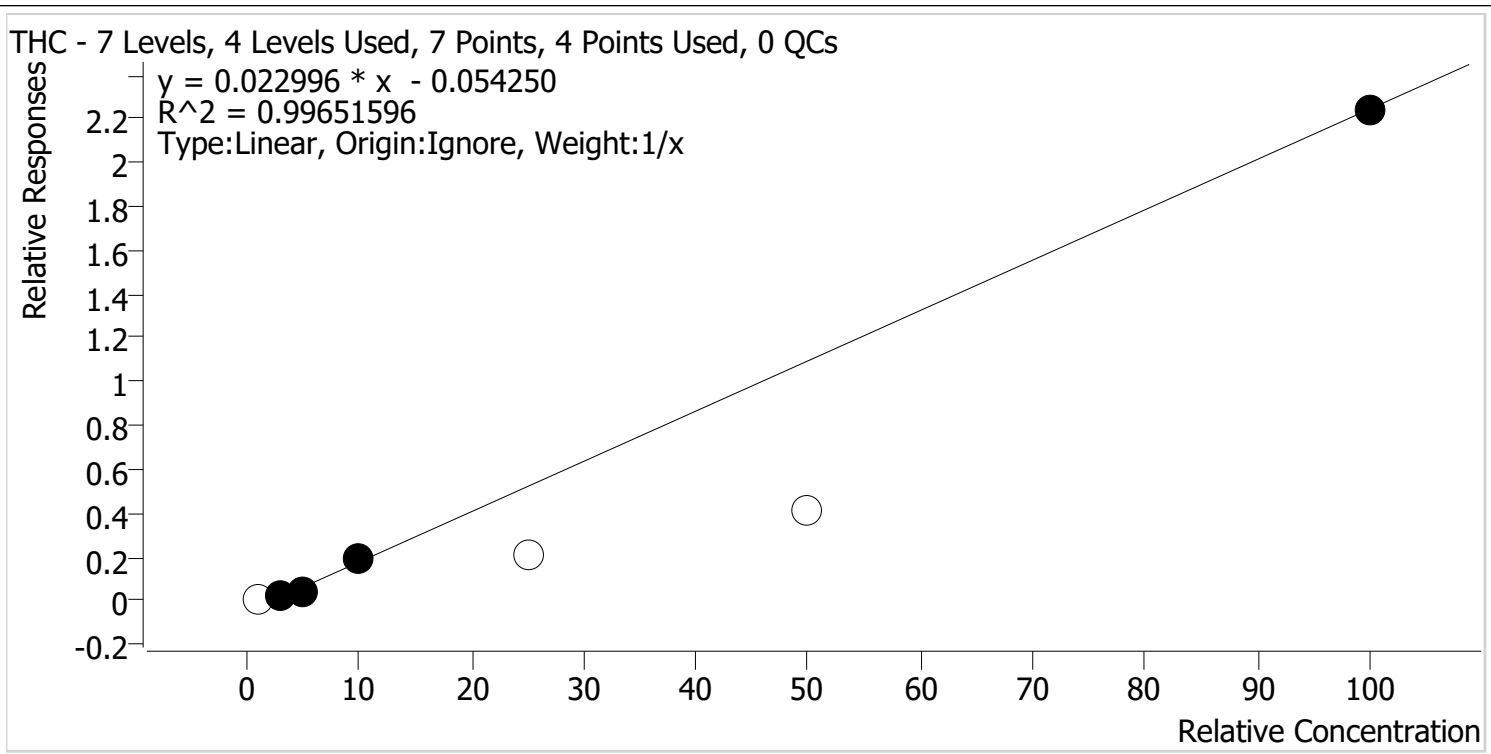
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	4692	112508	4.1727 ng/ml
THC-COOH	2.567	42695	515892	12.9702 ng/ml
THC-OH	2.514	15959	1827504	5.0584 ng/ml

SC



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 7/20/2021 5:36 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	2.7	271.5
MJ Cal 2	2	✓	3.0	3.3	109.5
MJ Cal 3	3	✓	5.0	4.0	80.5
MJ Cal 4	4	✓	10.0	11.0	110.3
MJ Cal 5	5	x	25.0	11.5	46.0
MJ Cal 6	6	x	50.0	20.1	40.3
MJ Cal 7 R	7	✓	100.0	99.7	99.7

Did not evaluate THC due to accuracy falling outside acceptable ranges

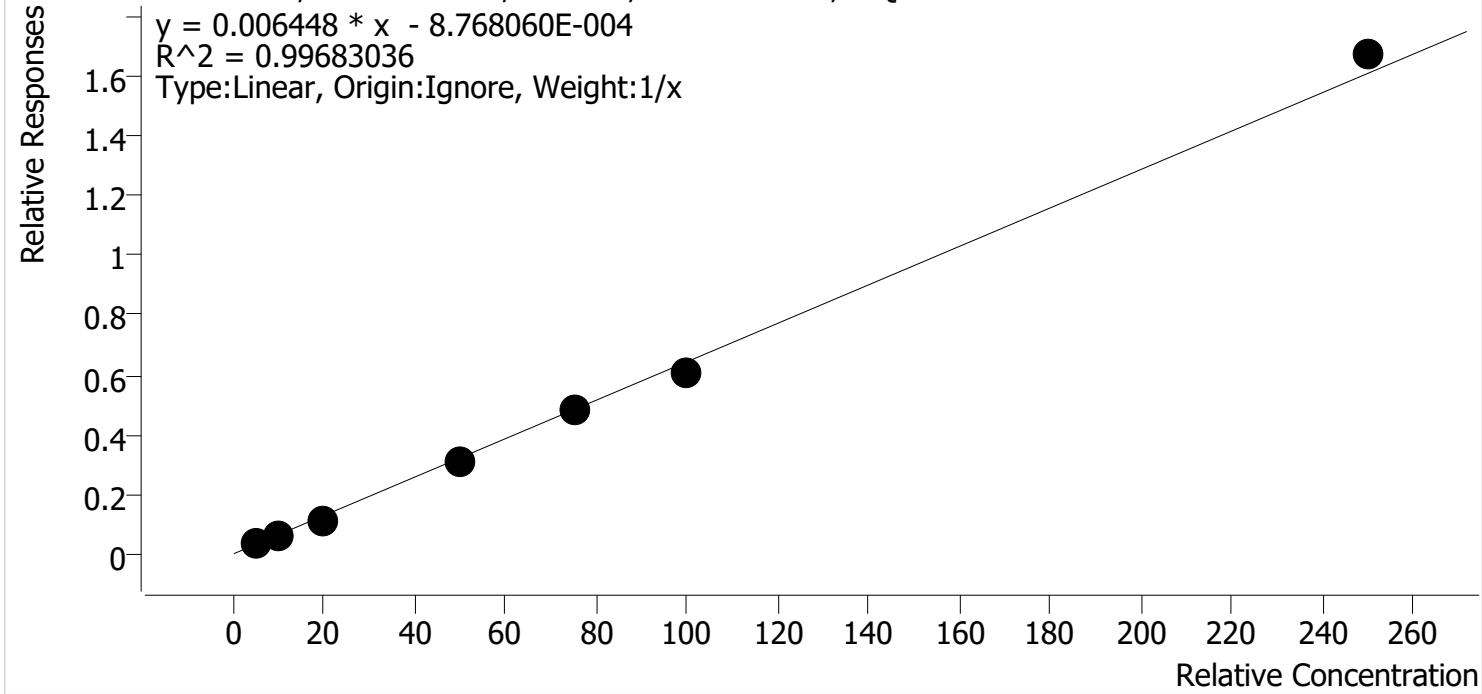
SC



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 7/20/2021 5:36 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-D9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.8	116.7
MJ Cal 2	2	✓	10.0	10.2	101.9
MJ Cal 3	3	✓	20.0	17.7	88.6
MJ Cal 4	4	✓	50.0	47.5	94.9
MJ Cal 5	5	✓	75.0	74.8	99.7
MJ Cal 6	6	✓	100.0	94.3	94.3
MJ Cal 7 R	7	✓	250.0	259.7	103.9

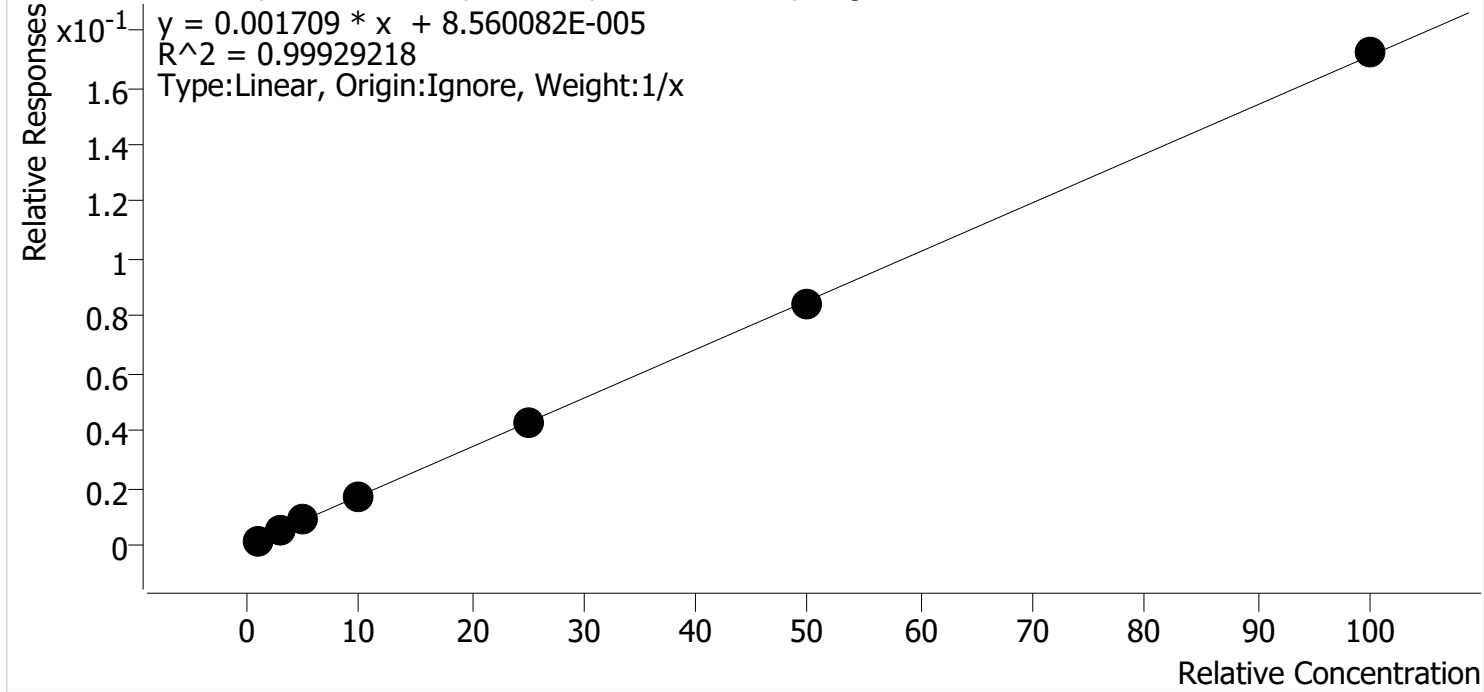
SC



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 7/20/2021 5:36 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	0.9	85.3
MJ Cal 2	2	✓	3.0	3.3	109.9
MJ Cal 3	3	✓	5.0	5.4	108.9
MJ Cal 4	4	✓	10.0	9.7	97.4
MJ Cal 5	5	✓	25.0	24.9	99.6
MJ Cal 6	6	✓	50.0	49.1	98.2
MJ Cal 7 R	7	✓	100.0	100.7	100.7



SC

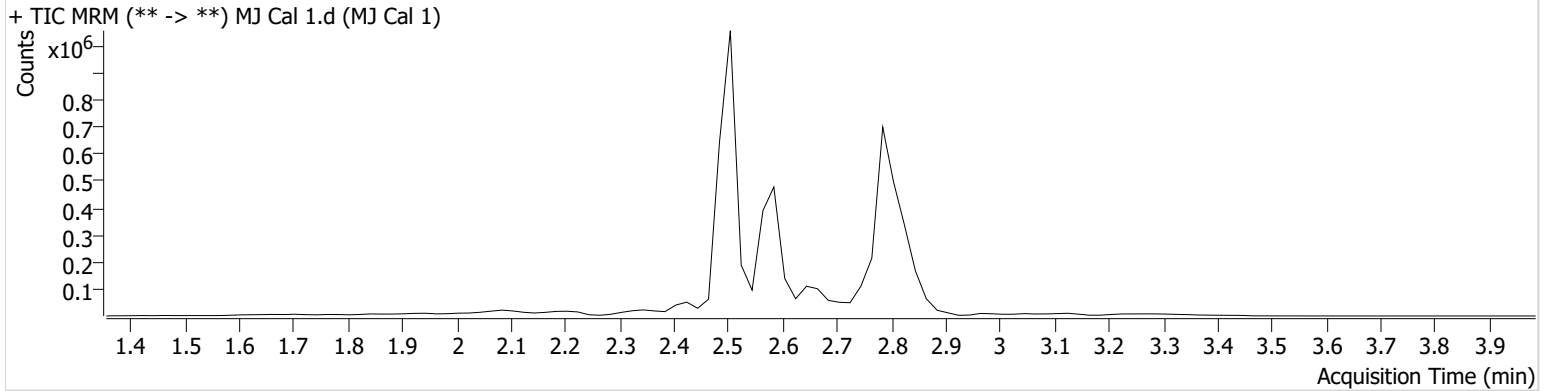


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 1
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 1:28:24 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	3010	367390	2.7154 ng/ml	<b>Low</b>
THC-COOH	2.607	25087	682858	5.8333 ng/ml	
THC-OH	2.514	3474	2249298	0.8535 ng/ml	<b>Low</b>

SC

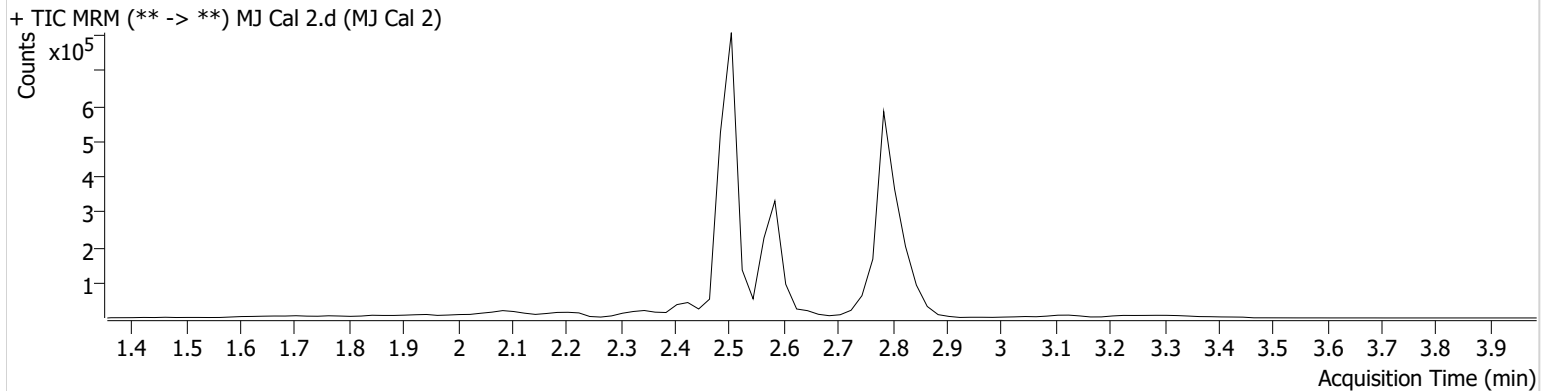


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 2
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 1:35:05 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	4554	213775	3.2854 ng/ml
THC-COOH	2.607	32209	496718	10.1919 ng/ml
THC-OH	2.514	9856	1722765	3.2968 ng/ml

SC

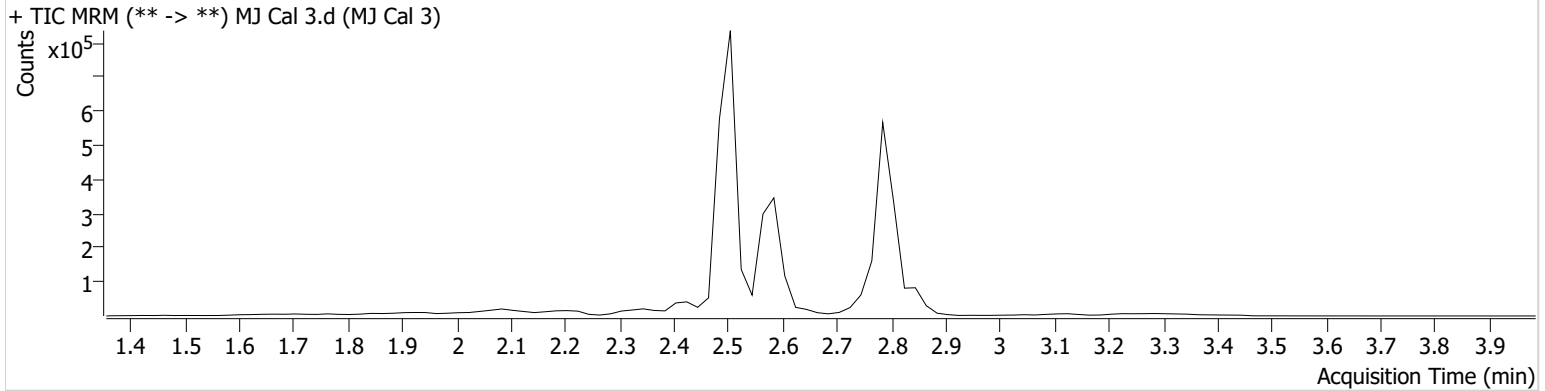


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 3
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-C1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 1:41:36 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2752	71858	4.0245 ng/ml
THC-COOH	2.607	64705	570631	17.7207 ng/ml
THC-OH	2.514	16625	1770677	5.4426 ng/ml

SC

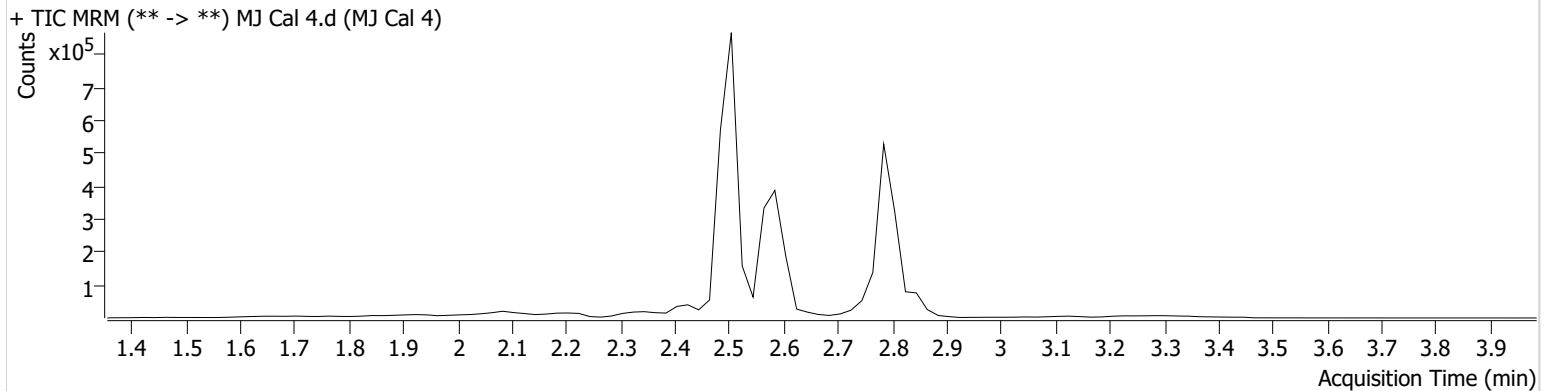


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 4
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 1:48:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	13474	67540	11.0341 ng/ml
THC-COOH	2.607	159587	523023	47.4542 ng/ml
THC-OH	2.514	28831	1722306	9.7427 ng/ml

SC

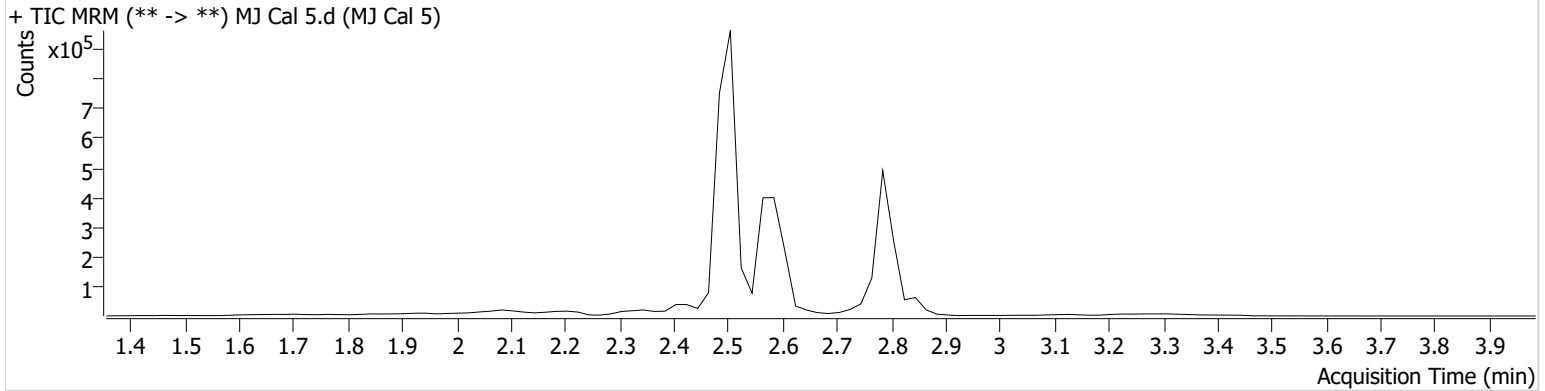


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 5
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 1:54:38 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	10297	49025	11.4930 ng/ml
THC-COOH	2.567	231577	481212	74.7655 ng/ml
THC-OH	2.514	72849	1708004	24.9011 ng/ml

SC

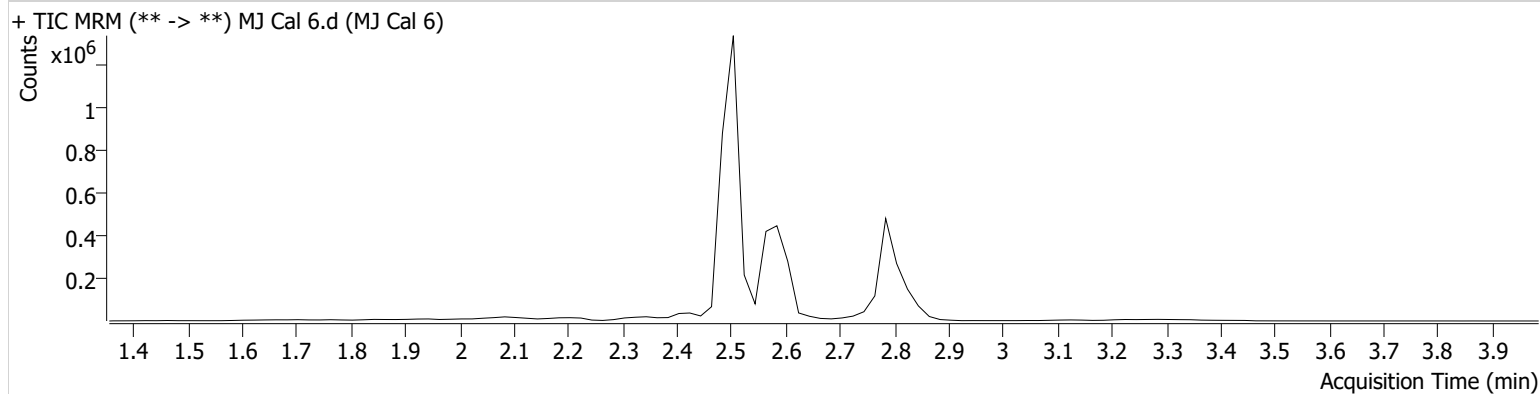


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 6
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-F1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 2:01:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	52691	128920	20.1320 ng/ml
THC-COOH	2.567	285874	470621	94.3370 ng/ml
THC-OH	2.514	145965	1736900	49.1122 ng/ml

SC

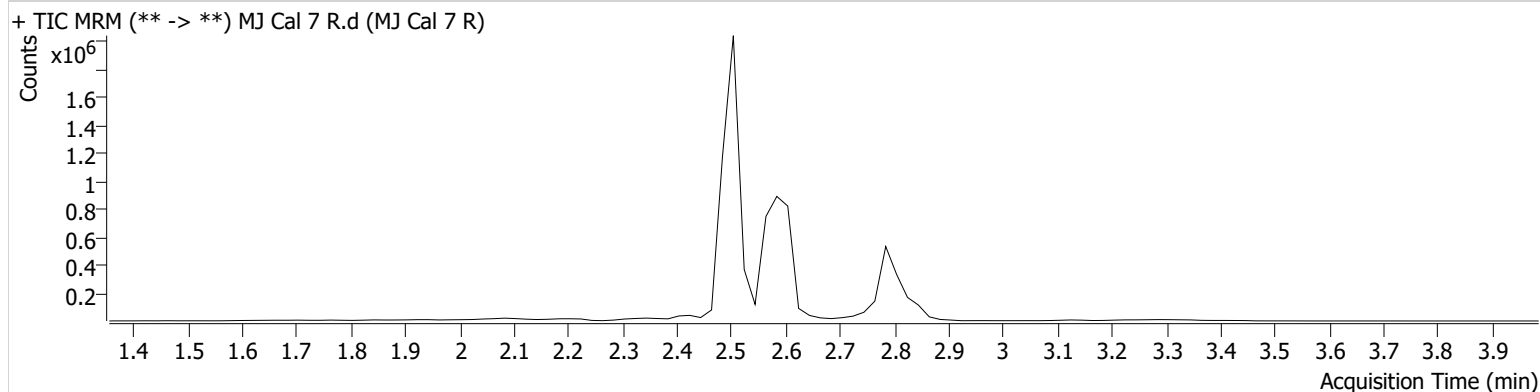


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 7/20/2021 5:36:41 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 7 R.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 7 R
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Sarah Collins
<b>Sample Position</b>	P1-G1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	7/20/2021 2:33:47 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	150348	67196	99.6560 ng/ml
THC-COOH	2.607	861084	514467	259.6974 ng/ml
THC-OH	2.514	306592	1781090	100.6511 ng/ml