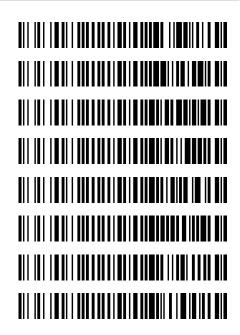


Worklist: 6791

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
C2024-0641	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0691	2	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0717	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0719	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0728	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0744	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQC
C2024-0759	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-0766	1	BCK	AM 27 Blood THC Quant by LC-QQQ

REVIEWED

By Britany Wylie at 9:19 am, Apr 26, 2024



\nearrow	

	1	2	3	4	5	6
а	cal 1	Internal control urine	0766-1			
b	cal 2	negative blood	negative urine			
С	cal 3	0641-1	0744-1			
d	cal 4	0691-2				
е	cal 5	0717-1				
f	cal 6	0719-1				
g	cal 7	0728-1				
h	Internal control (blood)	0759-1				

Plate position 3

c2024-___--



AM# 27: Quantitation of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 04/24/24 Analyst: Anne Nord Plate Retest Date: 6/12/24 Plate lot#: 231212

Mobile phase A: 0.1% Formic Acid in LCMS Water Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: 24C52042

Blank Urine Lot: 1324 Column: UCT Selectra DA 100 x 2.1mm 3um LCMS-QQQ ID: 69679

Pre-Analytic:

□ I. 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.

- 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: I41142J
- ☑ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Δ 4. Add 500μL of 0.1% formic acid in water to blood samples, and 500μL of saturated phosphate buffer to the samples. urine samples in the wells of the 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 µL
- (Load at 85-100 PSI- Selector to the right)
- \boxtimes 8. Wait 5 minutes.
- ⊠ 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 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)
- \boxtimes 13. Wait 5 minutes.
- ☑ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ⊠ 16. Reconstitute in 100μL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values \ge 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). Ion ratios must be within +/- 20% of the averaged calibrators
- ☑ 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- Enter QCs into control charting.
- Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Urine internal control, and C2024-0766-1 did not inject on 4/24/24, the samples were reconstituted and injected 4/25/24 along with the blood internal control.



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position

Injection Volume

69679 QC thc quant 50 50.m

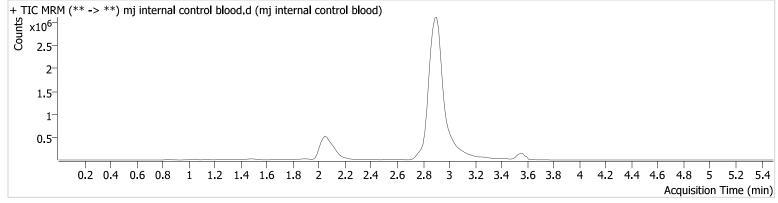
P3-H1 10

Acq. Date-Time 4/24/2024 7:53:56 PM Sample Info.

Data File Sample Operator Comment mj internal control blood.d mj internal control blood

Anne Nord

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	31294	545.2	857.97	∞	2033617	5.051 ng/ml
THC-COOH	2.122	54880	520.4	289.28	190523 .5	787324	14.036 ng/ml
THC	3.573	53129	1449.6	27.64	192.6	407807	4.493 ng/ml



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument **Type** Acq. Method **Sample Position** 69679 Sample thc quant 50 50.m

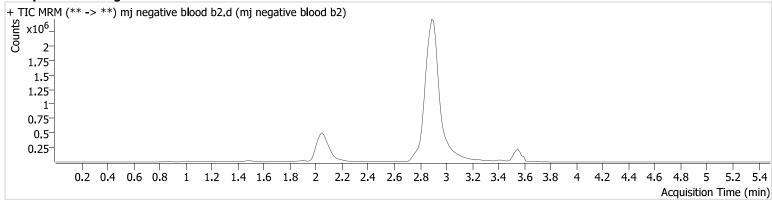
P3-B2 **Injection Volume** 4/24/2024 8:00:30 PM

Acq. Date-Time Sample Info.

Data File Sample Operator

mj negative blood b2.d mj negative blood b2 Anne Nord Comment

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Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position

69679 Sample thc quant 50 50.m P3-B3

 Injection Volume
 10

 Acq. Date-Time
 4/24/2024 9:39:22 PM

Acq. Date-Time Sample Info.

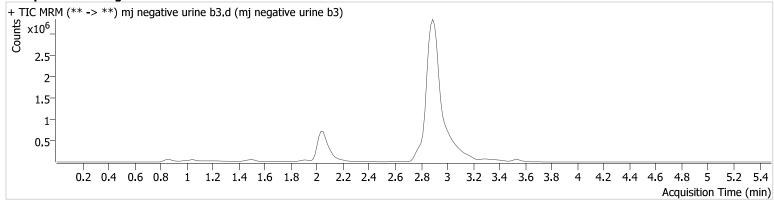
Data File Sample Operator Comment

ole mj negative
ator Anne Nord
ment Only drugs an

mj negative urine b3.d mj negative urine b3

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of

the methods





Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument **Type** Acq. Method **Sample Position**

Injection Volume

69679 Sample thc quant 50 50.m P3-A2

4/24/2024 10:05:48 PM

Acq. Date-Time Sample Info.

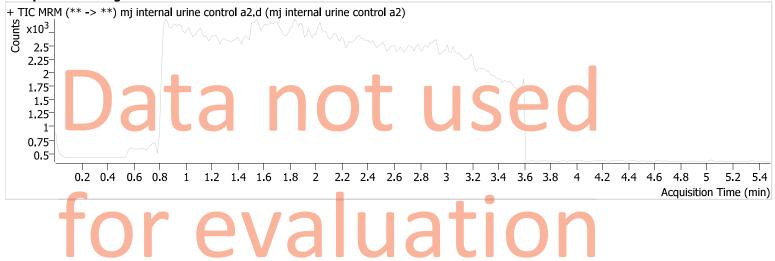
Data File Sample Operator Comment

mj internal urine control a2.d mj internal urine control a2

Anne Nord

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Sample Chromatogram



sample did not inject, the sample was reconstituted and run on 4/25/24 that injection will be evaluated.



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

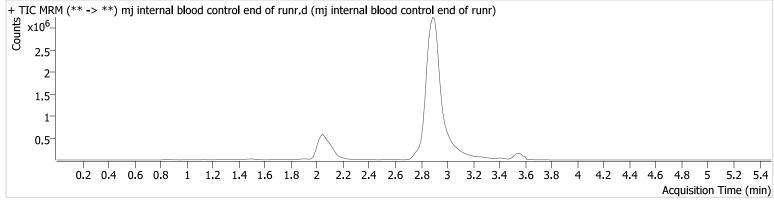
Acq. Date-Time

Sample Info.

69679 Sample thc quant 50 50.m P3-H1

10 4/24/2024 10:12:24 PM Data File Sample Operator Comment mj internal blood control end of runr.d mj internal blood control end of runr Anne Nord

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	33747	∞	869.01	1387.8	2273016	4.888 ng/ml
THC-COOH	2.107	66179	78.6	266.26	328.3	892285	14.852 ng/ml
THC	3.558	63723	1920.2	26.50	670.6	460065	4.754 ng/ml



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument **Type** Acq. Method **Sample Position Injection Volume** 69679 Sample thc quant 50 50.m

P3-A2 4/25/2024 11:50:27 AM

Acq. Date-Time Sample Info.

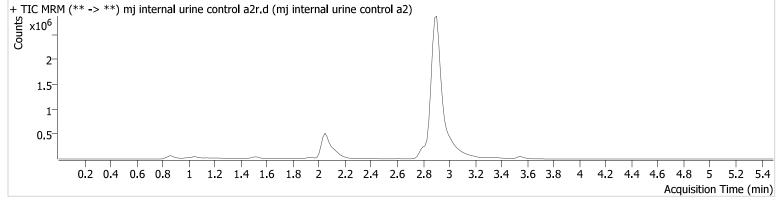
Data File Sample

Operator Comment

mj internal urine control a2r.d mj internal urine control a2

Anne Nord

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	26193	∞	904.63	1629.3	1823804	4.742 ng/ml
THC-COOH	2.122	29960	199.6	324.89	∞	428045	14.088 ng/ml
THC	3.558	21077	388.8	30.66	231.8	168794	4.322 ng/ml



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

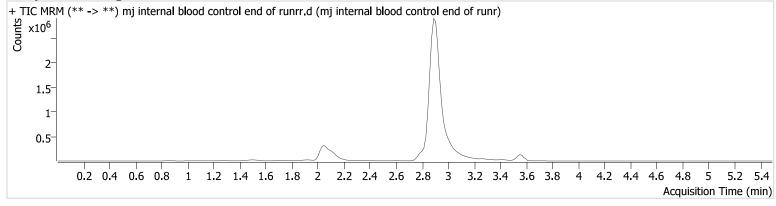
Acq. Date-Time

Sample Info.

69679 Sample thc quant 50 50.m P3-H1

10 4/25/2024 11:57:03 AM Data File Sample Operator Comment mj internal blood control end of runrr.d mj internal blood control end of runr Anne Nord

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	17467	836.0	846.43	∞	1126417	5.087 ng/ml
THC-COOH	2.122	33737	75539.5	263.78	292.1	464321	14.576 ng/ml
THC	3 . 558	38159	2431.0	28.92	695186 338573 21.8	263296	4 . 957 ng/ml

Compound Calibration Report

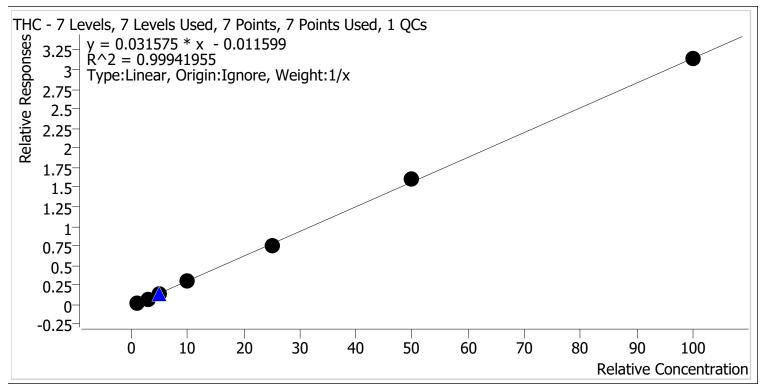


Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Last Cal. Update 4/25/2024 12:03 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	113.0
mj cal 2	2	~	3.0	2.9	95.3
mj cal 3	3	~	5.0	4.7	94.3
mj cal 4	4	~	10.0	9.7	96.8
mj cal 5	5	~	25.0	24.5	98.1
mj cal 6	6	~	50.0	51.3	102.7
mj cal 7	7	~	100.0	99.7	99.7

Compound Calibration Report

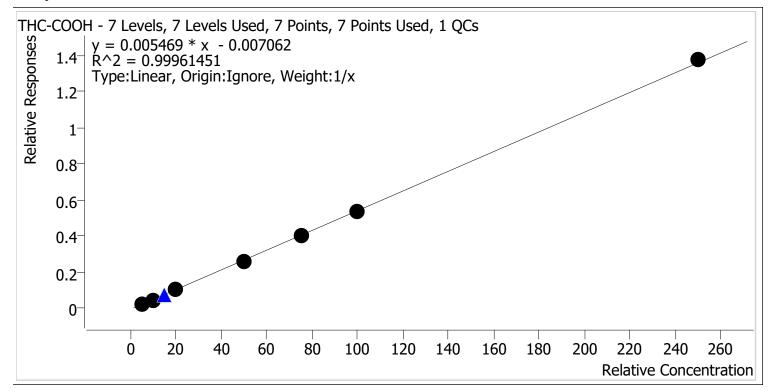


Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Last Cal. Update 4/25/2024 12:03 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	5.5	109.2
mj cal 2	2	~	10.0	9.7	96.8
mj cal 3	3	~	20.0	19.3	96.4
mj cal 4	4	~	50.0	49.0	98.0
mj cal 5	5	~	75.0	74.2	98.9
mj cal 6	6	~	100.0	99.3	99.3
mj cal 7	7	~	250.0	253.1	101.2

Compound Calibration Report

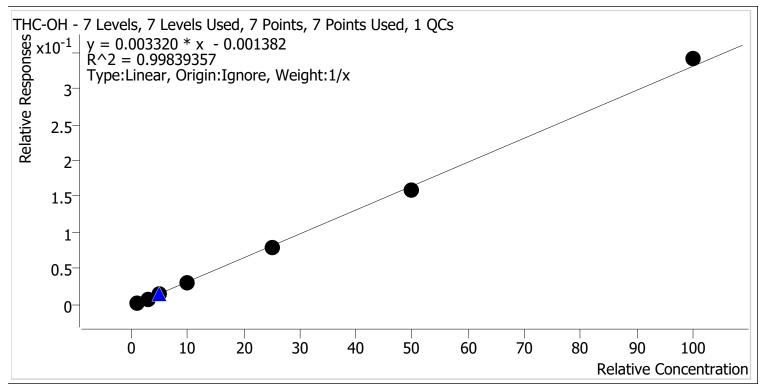


Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Last Cal. Update 4/25/2024 12:03 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	119.3
mj cal 2	2	~	3.0	2.9	95.8
mj cal 3	3	~	5.0	4.7	94.5
mj cal 4	4	~	10.0	9.3	93.2
mj cal 5	5	~	25.0	24.2	96.9
mj cal 6	6	~	50.0	48.6	97.1
mj cal 7	7	~	100.0	103.1	103.1



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

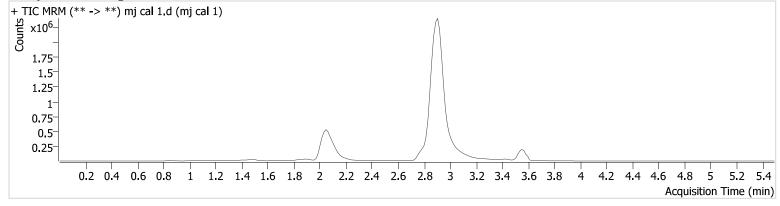
Instrument
Type
Acq. Method
Sample Position

69679 Cal thc quant 50 50.m P3-A1

Injection Volume 10 Acq. Date-Time 4/24/2024 7:07:39 PM Sample Info. Data File Sample Operator Comment

mj cal 1.d mj cal 1 Anne Nord

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Con	C.
THC-OH	2.051	6148	289.6	792.32	∞	2383701	1.193 ng/ml	Low
THC-COOH	2.122	19211	106.4	276.78	621.0	8 4 2113	5.462 ng/ml	
THC	3.558	13687	392.2	22.89	∞	568215	1.130 ng/ml	



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

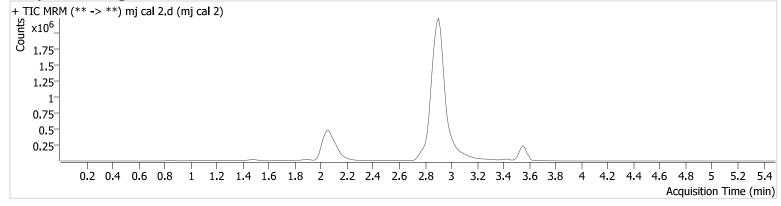
Instrument Type Acq. Method Sample Position 69679 Cal thc quant 50 50.m P3-B1 Data File Sample Operator Comment mj cal 2.d mj cal 2 Anne Nord Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for

Injection Volume 10 **Acq. Date-Time** 4/24/2024 7:14:23 PM

Sample Info.

interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of

the methods



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Cor	IC.
THC-OH THC-COOH	2.051 2.122	16626 36572	204.8 566.4	888.39 286.88	∞ 29188. 2	2036282 796763	2.875 ng/ml 9.684 ng/ml	Low
THC	3.558	48428	921.1	27.98	∞	615396	2.860 ng/ml	



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

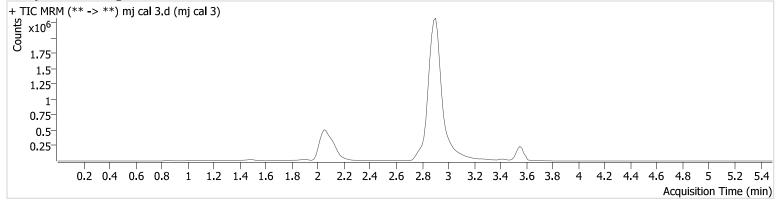
Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

69679 Cal thc quant 50 50.m P3-C1

Injection Volume 10 Acq. Date-Time 4/24/2024 7:20:59 PM Sample Info. Data File Sample Operator Comment mj cal 3.d mj cal 3 Anne Nord

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	28160	5426.6	906.81	∞	1967312	4.727 ng/ml
THC-COOH	2.122	75795	1699.4	272.89	579.2	769975	19.289 ng/ml
THC	3 . 558	80483 42	240494509 32451.0	25.66	148.3	586076	4.717 ng/ml



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

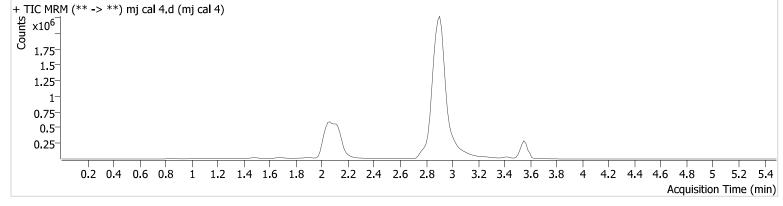
69679 Cal thc quant 50 50.m P3-D1

10 4/24/2024 7:27:35 PM

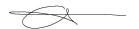
Acq. Date-Time Sample Info. Data File Sample Operator Comment

mj cal 4.d mj cal 4 Anne Nord

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	60642	4306.4	849.15	∞	2051927	9.317 ng/ml
THC-COOH	2.122	209850	659.7	269.50	832564 . 9	803868	49.020 ng/ml
THC	3.558	184198	∞	24.38	1277.7	626281	9.682 ng/ml



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument **Type** Acq. Method **Sample Position Injection Volume** 69679 Cal thc quant 50 50.m

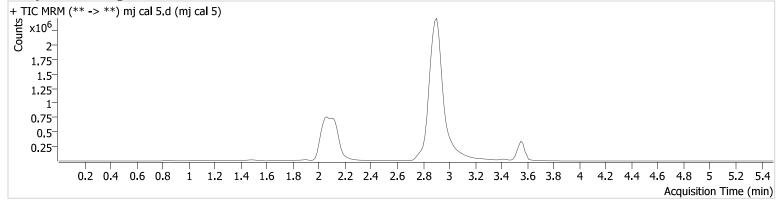
P3-E1 10 4/24/2024 7:34:12 PM

Acq. Date-Time Sample Info.

Data File Sample Operator Comment

mj cal 5.d mj cal 5 Anne Nord

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	154851	∞	872.46	∞	1958248	24.232 ng/ml
THC-COOH	2.122	307363	202619.8	269.81	4005.7	770703	74.207 ng/ml
THC	3.558	424328	24192.2	25.87	4294.2	556510	24.516 ng/m



Batch results D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin

Calibration Last Update 4/25/2024 12:03:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

69679 Cal thc quant 50 50.m P3-F1

ne 10 4/24/2024 7:40:46 PM

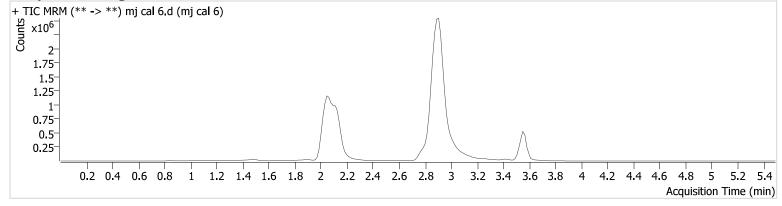
Acq. Date-Time Sample Info.

Data File Sample 50.m Operator Comment

rifle mj cal 6.d ple mj cal 6 rator Anne Nord

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the method



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	344302	7000.3	872.33	∞	2154233	48.552 ng/ml
THC-COOH	2.122	421510	10092.4	270.76	886.4	786683	99.255 ng/ml
THC	3.558	933036	24721.2	25.72	1511.2	579646	51.346 ng/ml



D:\MassHunter\Data\2024\am 27-28\042424\QuantResults\am 27.batch.bin **Batch results**

Calibration Last Update 4/25/2024 12:03:48 PM

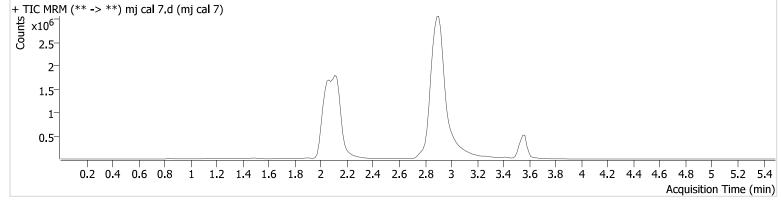
Instrument **Type** Acq. Method **Sample Position** 69679 Cal thc quant 50 50.m P3-G1

Injection Volume 10 Acq. Date-Time Sample Info.

4/24/2024 7:47:22 PM

Data File Sample Operator Comment mj cal 7.d mj cal 7 Anne Nord

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	2.051	647766	∞	833.30	∞	1899843	103.104 ng/ml
THC-COOH	2.122	947520	20220.2	267.04	4506.4	688031	253.082 ng/ml
THC	3 . 573	1291022	∞	26.34	3147.9	411415	99.750 ng/ml