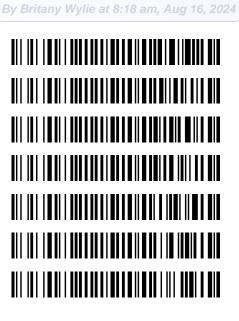
REVIEWED

8/15/2024

Worklist: 6898

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
C2024-1393	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-1394	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-1421	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ
C2024-1422	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ
C2024-1447	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-1466	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
C2024-1468	1	ВСК	AM 27 Blood THC Quant by LC-QQQ





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

Extraction Date: <u>8/13/24</u> Plate lot#: 240513 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: 24C52043 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Anne Nord</u> Plate Retest Date: 11/13/2024 Mobile phase B: 0.1% Formic acid in Acetonitrile Blank Urine Lot: 6524 LCMS-QQQ ID: 69679

Pre-Analytic:

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

Analytic:

- \boxtimes 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. Pipette ID: K52558G
- ☑ 3. Urine hydrolysis add 100 ul BG turbo, and 200 ul BG turbo buffer to the urine samples in wells of the analytical plate.
- ☑ 4. Add 500µL of 0.1% formic acid in water in the wells of the analytical plate.
- ☑ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- δ. Transfer 700-800μL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 μL
- 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)
- \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).
- ☑ 15. Remove plate containing eluate. Place on SPE Dry 75401 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

- \boxtimes 1. Create batch and process data.
- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values ≥ 0.98 for each analyte
- 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
- \boxtimes 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- \boxtimes 5. Enter QCs into control charting.
- Solution 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: The end of run blood control and the negative urine did not inject they were re-constituted and injected 8/15/24

Hydroxy-THC was not evaluated for the urine samples due to an interfering peak.

	1	2	3	4	5	6
а	cal 1	Internal control urine	1421-1			
b	cal 2	negative blood	1422-1			
с	cal 3	1393-1				
d	cal 4	1394-1				
e	cal 5	1466-1				
f	cal 6	1468-1				
g	cal 7	1447-1				
h	Internal control (blood)	negative urine				

Plate position 3

c2024-___-



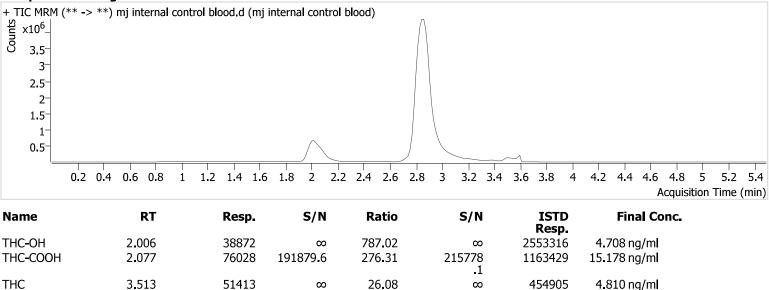
Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

TypeQCAcq. MethodtheSample PositionP3Injection Volume10	679Data File Samplec quant 50 50.mOperator Comment-H1Operator Comment13/2024 5:25:14 PM
---	--

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



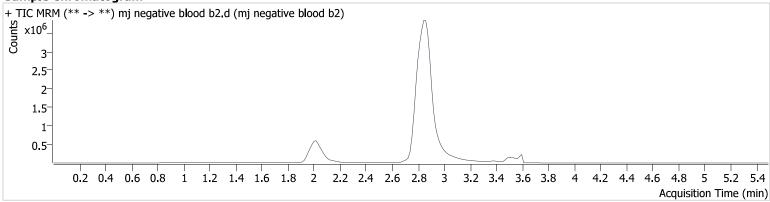


Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.bin Calibration Last Update 8/15/2024 11:06:03 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Sample thc quant 50 50.m P3-B2 10 8/13/2024 5:31:47 PM	Data File Sample Operator Comment
--	---	--

mj negative blood b2.d mj negative blood b2 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





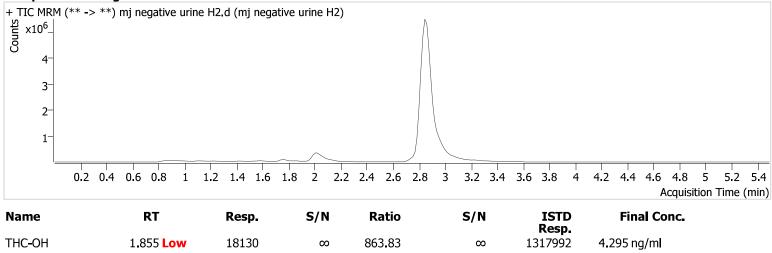
Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.bin Calibration Last Update 8/15/2024 11:06:03 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time	69679 Sample thc quant 50 50.m P3-H2 10 8/15/2024 9:27:16 AM	Data File Sample Operator Comment
Sample Info.		

mj negative urine H2.d mj negative urine H2 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

Sample Chromatogram



THC-OH was not evaluated in urine samples due to interfering peaks

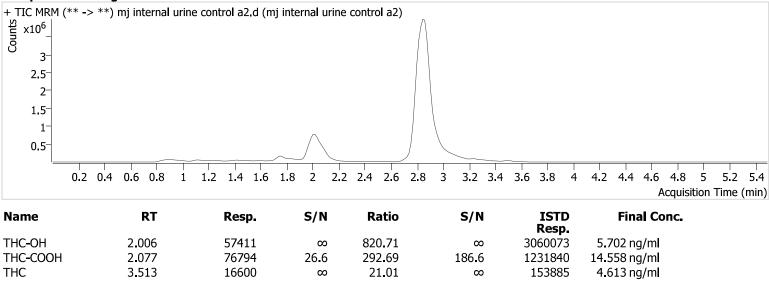
Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

Acq. Date-Time 8/13/2024 7:23:57 PM Sample Info.		69679 QC thc quant 50 50.m P3-A2 10 8/13/2024 7:23:57 PM	Data File Sample Operator Comment
---	--	---	--

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

Sample Chromatogram



THC-OH was not evaluated in urine samples due to interfering peaks

 Batch results
 D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.bin

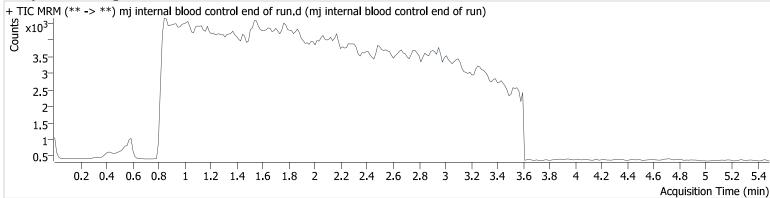
 Calibration Last Update
 8/15/2024 11:06:03 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 QC thc quant 50 50.m P3-H1 10 8/13/2024 7:30:33 PM	Data File Sample Operator Comment
--	---	--

mj internal blood control end of run.d mj internal blood control end of run 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

Sample Chromatogram



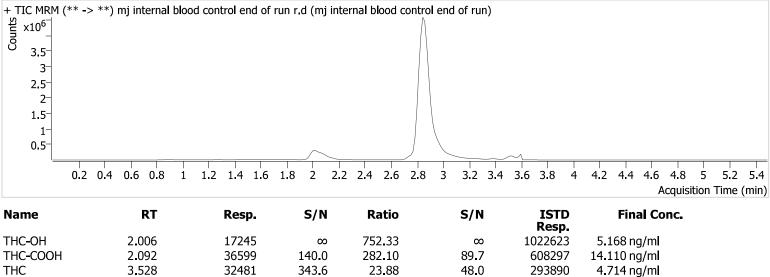
Sample did not inject it was reconstituted and injected 8/15/24

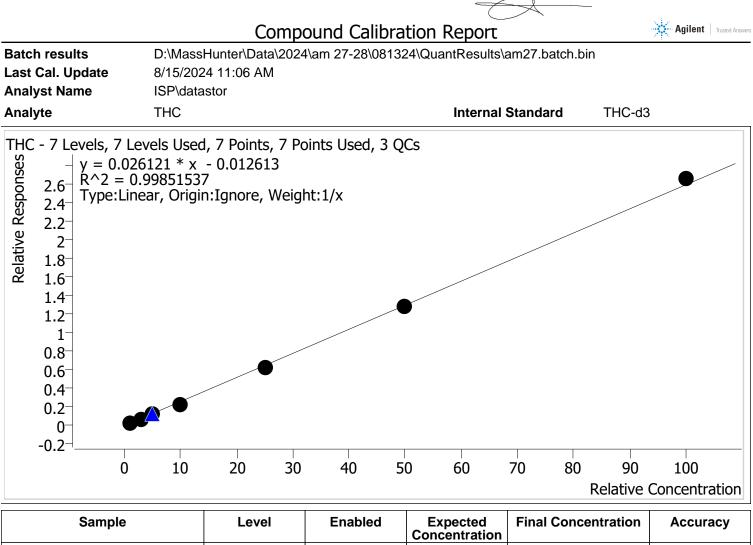


Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

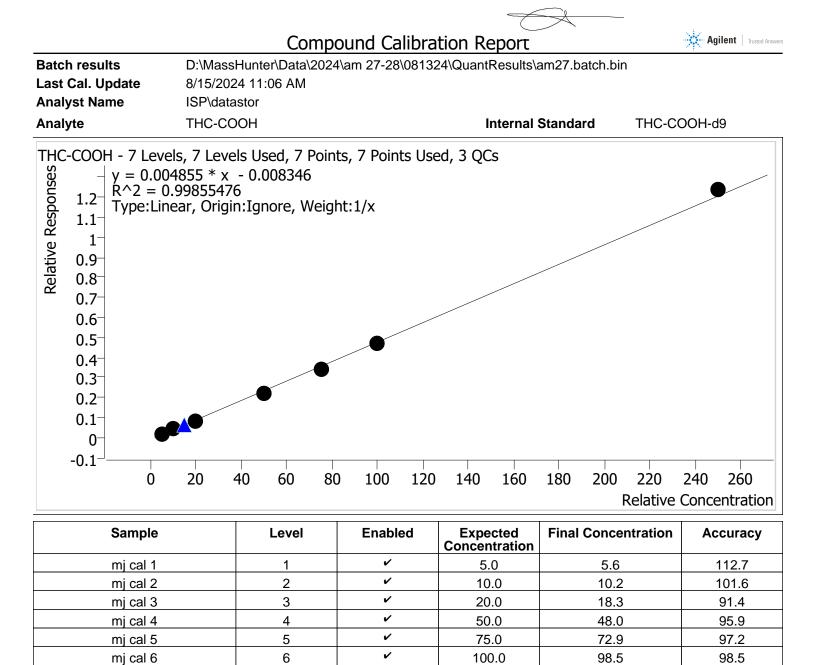
mj internal blood control end of run r.d mj internal blood control end of run Anne Nord

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





			Concentration		,,
mj cal 1	1	~	1.0	1.2	115.3
mj cal 2	2	~	3.0	2.8	92.4
mj cal 3	3	~	5.0	5.2	104.5
mj cal 4	4	~	10.0	9.0	90.5
mj cal 5	5	 ✓ 	25.0	24.1	96.3
mj cal 6	6	~	50.0	49.3	98.5
mj cal 7	7	~	100.0	102.4	102.4



r

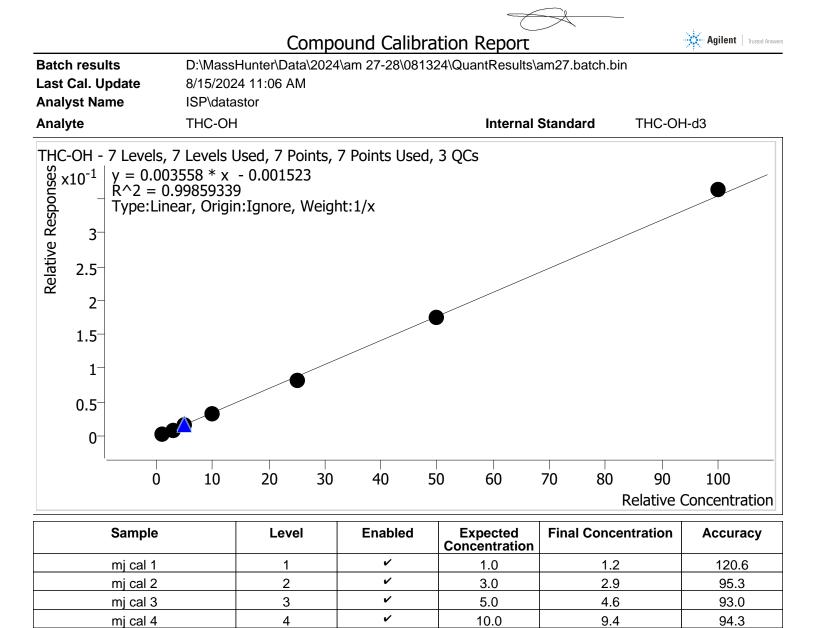
250.0

256.5

7

mj cal 7

102.6



r

r

r

25.0

50.0

100.0

5

6

7

mj cal 5

mj cal 6

mj cal 7

23.8

49.6

102.5

95.1

99.2

102.5

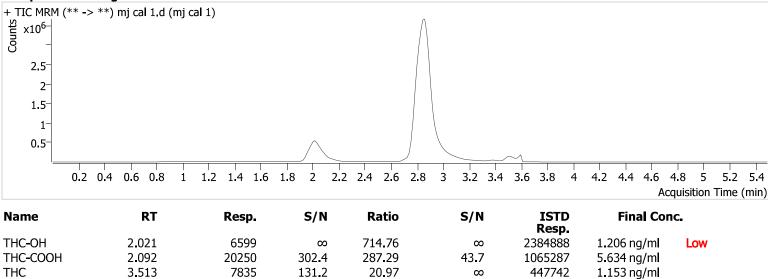


Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

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



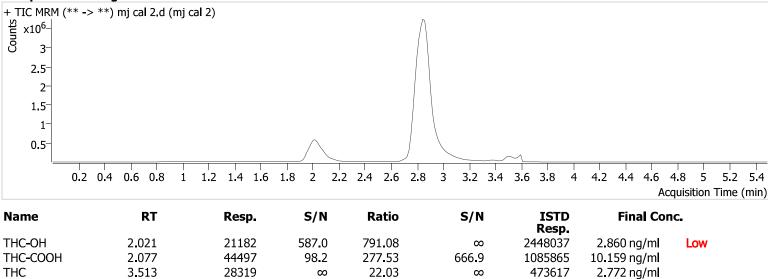


Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

mj cal 2.d mj cal 2 Appo Nord

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



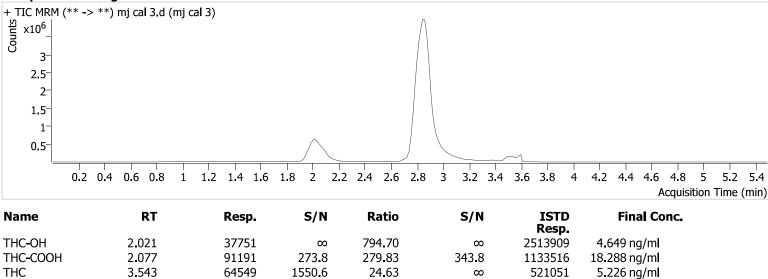


Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

mj cal 3.d mj cal 3

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





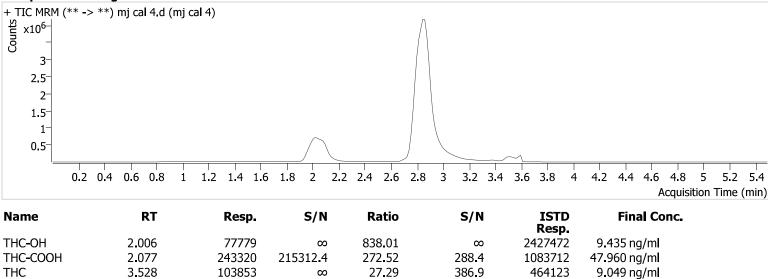
Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

Instrument69679TypeCalAcq. Methodthc quantSample PositionP3-D1Injection Volume10Acq. Date-Time8/13/2024Sample Info.X	50 50.m Data File Sample Operator Comment
--	--

mj cal 4.d mj cal 4

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



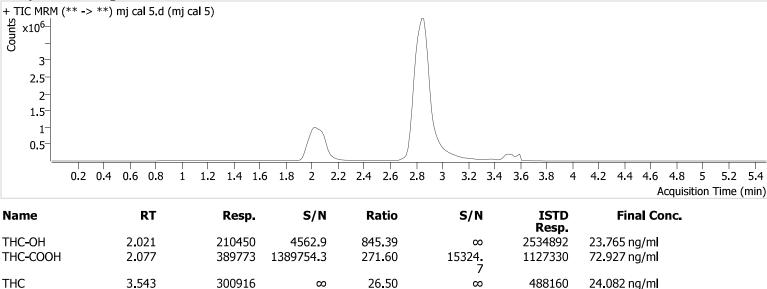


Batch resultsD:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.binCalibration Last Update8/15/2024 11:06:03 AM

Instrument69679TypeCalAcq. Methodthc quant 50 50.mSample PositionP3-E1Injection Volume10Acq. Date-Time8/13/2024 5:05:30 PMSample Info.Sample Info.	Data File Sample Operator Comment
--	--

mj cal 5.d mj cal 5 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



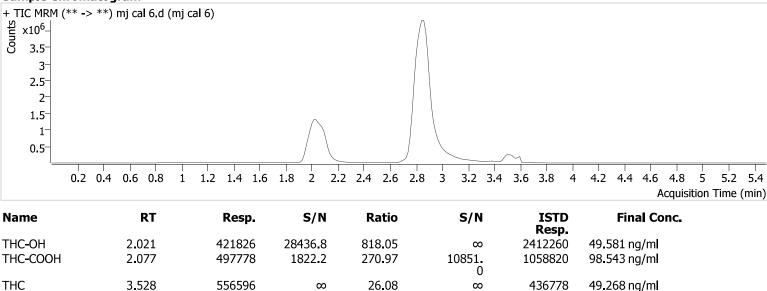


Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.bin Calibration Last Update 8/15/2024 11:06:03 AM

mj cal 6.d mj cal 6

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





Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am27.batch.bin Calibration Last Update 8/15/2024 11:06:03 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-G1 10 8/13/2024 5:18:40 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 the methods

