Worklist: 6806

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
C2024-0775	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0800	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0829	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0831	3	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0840	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0843	1	BCK	AM 27 Blood THC Quant by LC-QQQ
C2024-0853	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: 05/08/24 Plate lot#: 231212 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: 24C52042 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Anne Nord</u> Plate Retest Date: 6/12/24 Mobile phase B: 0.1% Formic acid in Acetonitrile Blank Urine Lot: blood only LCMS-QQQ ID: 69679

Pre-Analytic:

- ☑ 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.
- 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
- \boxtimes 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Add 500µL of 0.1% formic acid in water to blood samples, and 500µL of saturated phosphate buffer to urine samples in the wells of the analytical plate.
- \boxtimes 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: 800 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 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
- ☑ 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- \boxtimes 5. Enter QCs into control charting.
- 8 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Calibrator 7 did not inject properly. The calibrator was injected the next day and that injection was evaluated.

THC-OH curve limits 3-100 dropped cal 1 due to accuracy.

	1	2	3	4	5	6
а	cal 1	internal control blood	0853-1			
b	cal 2	negative blood				
с	cal 3	0775-1				
d	cal 4	0800-1				
е	cal 5	0829-1				
f	cal 6	0831-3				
g	cal 7	0840-1				
h	Internal control (blood)	0843-1				

Plate position 3

c2024-___-



Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time	69679 QC thc quant 50 50.m P3-H1 10 5/9/2024 12:31:11 AM	Data File Sample Operator Comment
Sample Info.		

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





lts D:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.bin

 Batch results
 D:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.bir

 Calibration Last Update
 5/9/2024 9:36:21 AM

OG79Data File SampleampleSamplec quant 50 50.mOperatorB-B2Comment9/2024 12:37:45 AM

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

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

69679 Sample thc quant 50 50.m P3-A2 10 5/9/2024 2:16:44 AM	Data File Sample Operator Comment
	69679 Sample thc quant 50 50.m P3-A2 10 5/9/2024 2:16:44 AM

mj internal blood control a2.d mj internal blood control a2 Anne Nord

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Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
mj cal 1	1	~	1.0	1.3	128.9
mj cal 2	2	V	3.0	2.9	97.1
mj cal 3	3	V	5.0	4.6	91.1
mj cal 4	4	V	10.0	9.2	91.9
mj cal 5	5	V	25.0	22.9	91.7
mj cal 6	6	V	50.0	46.2	92.5
mj cal 7	7	×	100.0	345.7	345.7
mj cal 7r	7	V	100.0	106.9	106.9



r

r

100.0

250.0

6

7

mj cal 6

mj cal 7r

103.9

104.3

103.9

260.8



r

r

r

25.0

50.0

100.0

5

6

7

mj cal 5

mj cal 6

mj cal 7r

23.3

44.5

107.4

93.3

89.0

107.4



Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-A1 10 5/8/2024 11:44:55 PM	Data File Sample Operator Comment
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mj cal 1.d mj cal 1

Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument69679TypeCalAcq. Methodthc quant 50 50.mSample PositionP3-B1Injection Volume10Acq. Date-Time5/8/2024 11:51:39Sample Info.Sample Info.	Data File Sample Operator Comment
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mj cal 2.d mj cal 2 Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument69679TypeCalAcq. Methodthc quant 50 50.rSample PositionP3-C1Injection Volume10Acq. Date-Time5/8/2024 11:58:1Sample Info.Sample Info.	Data File Sample Operator Comment
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mj cal 3.d mj cal 3

Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-D1 10 5/9/2024 12:04:49 AM	Data File Sample Operator Comment
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mj cal 4.d mj cal 4

Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-E1 10 5/9/2024 12:11:25 AM	Data File Sample Operator Comment
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mj cal 5.d mj cal 5

Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-F1 10 5/9/2024 12:18:01 AM	Data File Sample Operator Comment
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mj cal 6.d mj cal 6

Anne Nord

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Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument69679Data FiTypeCalSampleAcq. Methodthc quant 50 50.mOperatorSample PositionP3-G1CommeInjection Volume10Acq. Date-Time5/9/2024 12:24:37 AMSample Info	le or ent
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mj cal 7.d mj cal 7 Anne Nord

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Sample Chromatogram



Sample did not inject properly little to no internal standard response. Sample was re-injected that injection was evaluated.



Batch resultsD:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.binCalibration Last Update5/9/2024 9:36:21 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.	69679 Cal thc quant 50 50.m P3-G1 10 5/9/2024 8:50:43 AM	Data File Sample Operator Comment
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mj cal 7r.d mj cal 7r

Anne Nord

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Batch results D:\MassHunter\Data\2024\am 27-28\050824r\QuantResults\am 27.batch.bin Calibration Last Update 5/9/2024 3:55:27 PM

Instrument Type Acq. Method Sample Position Injection Volume	69679 Sample thc quant 50 50.m P3-A2 10	Data File Sample Operator Comment
Acq. Date-Time Sample Info.	5/9/2024 3:43:38 PM	

mj internal blood control a2r.d mj internal blood control a2r Anne Nord

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