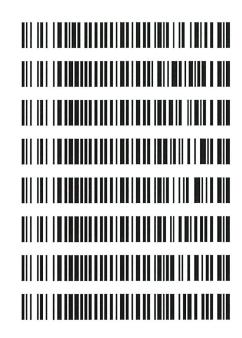
REVIEWED

By Celena Shrum at 3:29 pm, Oct 23, 2019

10/11/2019

Worklist: 3753

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2019-4169	2	вск	AM 27 Blood THC Quant by LC-QQQ
P2019-2672	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2803	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2857	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2911	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2936	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2959	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2019-2960	1	BCK	AM 27 Blood THC Quant by LC-QQQ



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

Analyst: Tamara Salazar Extraction Date: 10/15/19 Plate Expiration: 01/16/2020 Plate lot#: IDP-108-190716

Mobile phase A: 0.1% Formic Acid in LCMS Water

LCMS Methanol

Mobile phase B: 0.1% Formic acid in Acetonitrile

Hexane

Blank Blood Lot: Hemostat 445283-3

Column: UCT Selectra DA 100 x 2.1mm 3um

LCMS-QQQ ID: 069901

Pre-Analytic:

MTBE

□ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.

Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

 \boxtimes 3. Create worklist:

Analytic:

☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.

× 2. Pipette 1000μL blood/urine (calibrated pipette) Pipette ID: 3 in wells of analytical (standards) plate.

⊠ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 067105

× 4. Pipette 500μL 0.1% formic acid in water in wells of analytical plate for blood samples.

☑ 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)

 \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. SPE Dry ID: 067103

Post-Analytic

Worklist path: D:\MassHunter\Data\2019\AM 27\101519 MDQ P1 and P2_THCQ TS Batch Name: THCQ wklst 3753 TS

Make any necessary integration changes, Curve weighting of Linear 1/x with r² values ≥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

Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: 10ng/mL (qualitative only) \boxtimes 4. 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.

Did all OCs pass for each analyte? Y/N

 \boxtimes 6 Enter QCs into control charting.

Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: THOOH 3-100







Calibration Last Update D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

Batch results

Sample AM 27 THC quant.m P3-A2

10/16/2019 4:04:40 AM

Data File Sample

MJ_Negative.d MJ_Negative

Comment

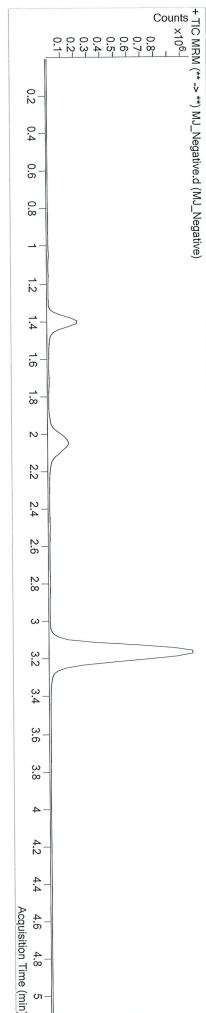
Sample Chromatogram

Sample Info. Acq. Date-Time Sample Position

Acq. Method

Instrument

Injection Volume







Batch results **Calibration Last Update** D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wkist 3753 TS.batch.bin 10/16/2019 8:58:41 AM

P3-H1 Sample AM 27 THC quant.m

10/16/2019 3:49:29 AM

Instrument

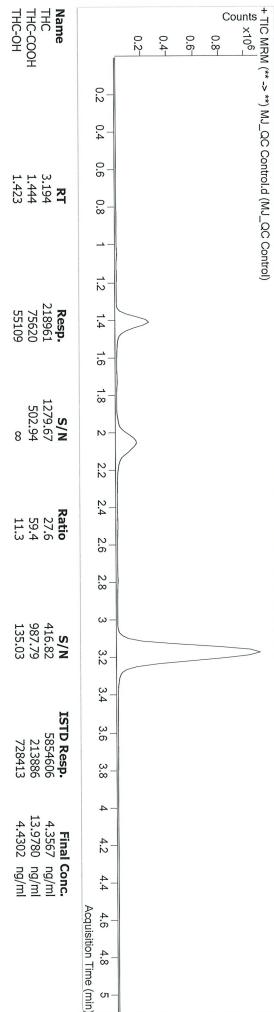
Sample Data File

MJ_QC Control.d MJ_QC Control

Comment

Sample Chromatogram

Sample Info. Acq. Date-Time Injection Volume Sample Position Acq. Method



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst

3753 TS.batch.bin

Last Cal. Update

10/17/2019 10:15 AM

Analyst Name

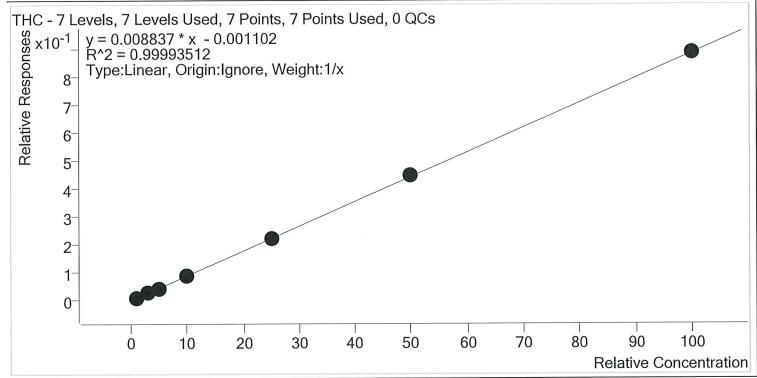
ISP\datastor

Analyte

THC

Internal Standard

THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.0	104.9
MJ Cal 2	2	✓	3.0	2.9	98.1
MJ Cal 3	3	✓	5.0	4.9	98.6
MJ Cal 4	4	✓	10.0	9.9	98.7
MJ Cal 5	5	✓	25.0	24.7	99.0
MJ Cal 6	6	✓	50.0	50.3	100.6
MJ Cal 7	7	✓	100.0	100.2	100.2

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst

3753 TS.batch.bin

Last Cal. Update

10/17/2019 10:15 AM

Analyst Name

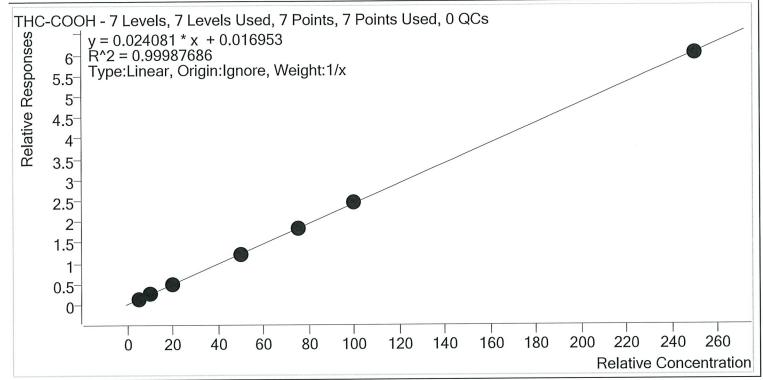
ISP\datastor

Analyte

THC-COOH

Internal Standard

THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.1	101.8
MJ Cal 2	2	✓	10.0	9.7	96.6
MJ Cal 3	3	✓	20.0	20.3	101.5
MJ Cal 4	4	✓	50.0	49.8	99.6
MJ Cal 5	5	✓	75.0	74.5	99.4
MJ Cal 6	6	✓	100.0	101.5	101.5
M.I. Cal 7	7	✓	250.0	249.1	99.6

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst

3753 TS.batch.bin

Last Cal. Update

10/17/2019 10:15 AM

Analyst Name

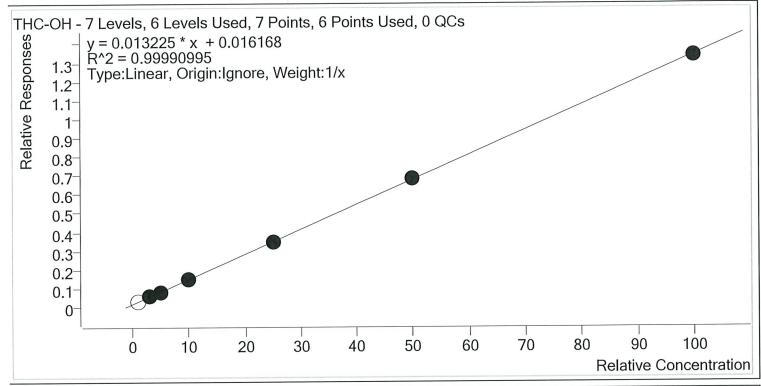
ISP\datastor

Analyte

THC-OH

Internal Standard

THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	1.0	1.1	111.7
MJ Cal 2	2	✓	3.0	2.9	98.1
MJ Cal 3	3	✓	5.0	4.9	98.6
MJ Cal 4	4	✓	10.0	10.3	102.7
MJ Cal 5	5	✓	25.0	25.2	100.8
MJ Cal 6	6	1	50.0	50.1	100.2
MJ Cal 7	7	✓	100.0	99.6	99.6





Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

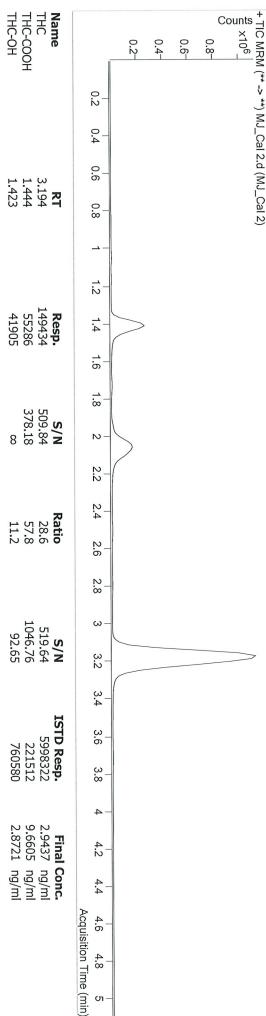
Falco Cal AM 27 THC quant.m P3-B1

10/16/2019 3:03:54 AM

Data File Sample

MJ_Cal 2.d MJ_Cal 2

Comment







Calibration Last Update D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

P3-C1 AM 27 THC quant.m

> Sample Data File

> > MJ_Cal 3.d MJ_Cal 3

Comment

Sample Chromatogram

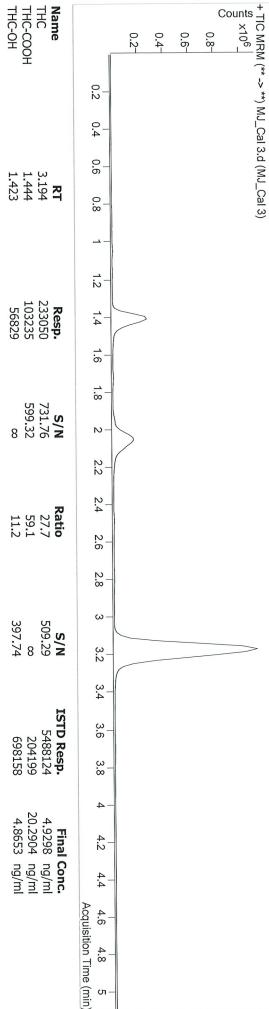
Sample Info. Acq. Date-Time Acq. Method

Injection Volume Sample Position

10/16/2019 3:11:30 AM

Instrument

Batch results







Batch results D:\MassHunter
Calibration Last Update 10/16/2019 8:

D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

t Update 10/16/20 Falco Cal

0

Instrument

Acq. Method

P3-D1

10/16/2019 3:19:07 AM

AM 27 THC quant.m

Data File Sample

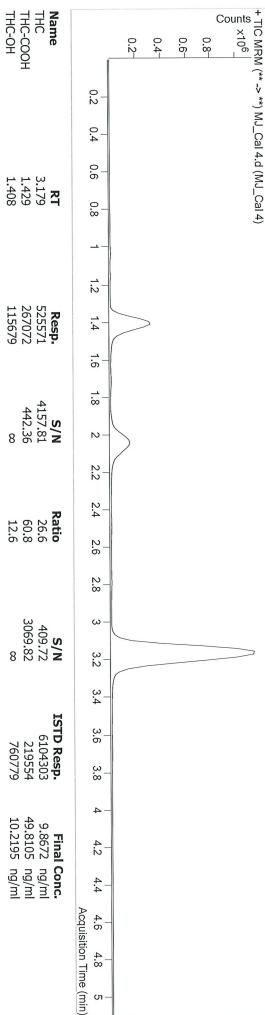
MJ_Cal 4.d MJ_Cal 4

Comment

Sample Info.

Sample Position Injection Volume

Acq. Date-Time







Batch results Calibration Last Update

Instrument

D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

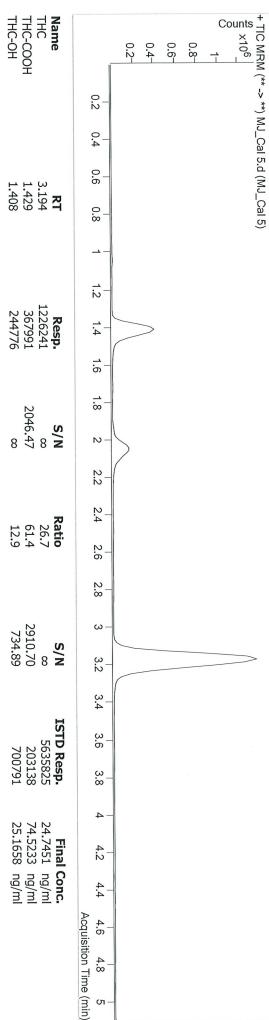
Cal AM 27 THC quant.m P3-E1

10/16/2019 3:26:44 AM

Data File Sample

MJ_Cal 5.d MJ_Cal 5

Comment







Batch results Calibration Last Update

D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

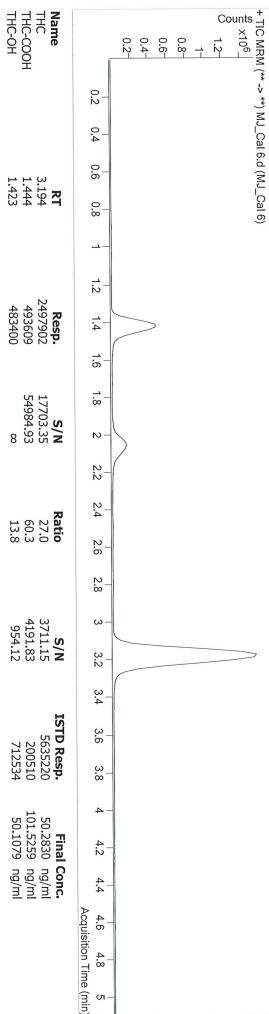
Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

Falco Cal AM 27 THC quant.m P3-F1 10 10/16/2019 3:34:19 AM

> Data File Sample

MJ_Cal 6.d MJ_Cal 6

Comment







Batch results Calibration Last Update

D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

Instrument
Type
Acq. Method
Sample Position
Injection Volume

Falco Cal AM 27 THC quant.m P3-G1

> Data File Sample

MJ_Cal 7.d MJ_Cal 7

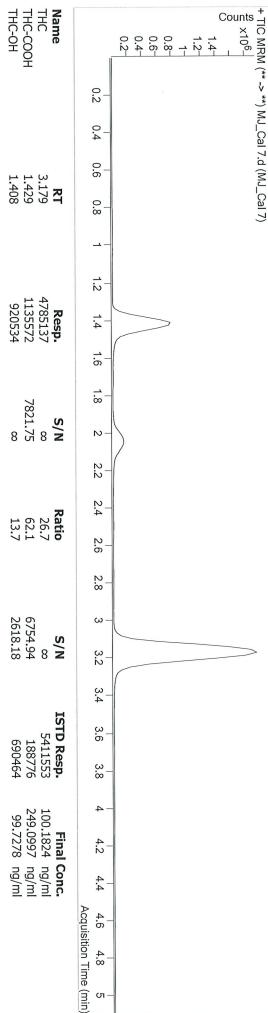
Comment

Sample Chromatogram

Sample Info.

Acq. Date-Time

10/16/2019 3:41:54 AM







Batch results **Calibration Last Update** D:\MassHunter\Data\2019\AM 28\101519 MDQ P1 and P2_THCQ TS\QuantResults\THCQ wklst 3753 TS.batch.bin 10/16/2019 8:58:41 AM

Instrument

P3-A1 AM 27 THC quant.m 10/16/2019 2:56:09 AM Comment Sample Data File

MJ_Cal 1.d MJ_Cal 1

Sample Chromatogram

Sample Info. Acq. Date-Time Injection Volume Sample Position Acq. Method

