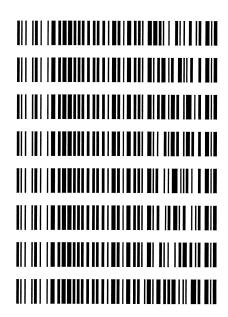


Worklist: 3692

LAB CASE	ITEM	TASK ID	DESCRIPTION
P2019-2490	1	163857	AM 27 Blood THC Quant by LC-QQQ
P2019-2517	1	163858	AM 27 Blood THC Quant by LC-QQQ
P2019-2518	1	163864	AM 27 Blood THC Quant by LC-QQQ
P2019-2533	1	163859	AM 27 Blood THC Quant by LC-QQQ
P2019-2562	1	163860	AM 27 Blood THC Quant by LC-QQQ
P2019-2572	1	163861	AM 27 Blood THC Quant by LC-QQQ
P2019-2594	1	163862	AM 27 Blood THC Quant by LC-QQQ
P2019-2777	1	163863	AM 27 Blood THC Quant by LC-QQQ





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

Extraction Date: 09/16/19 Analyst: <u>Tamara Salazar</u> Plate lot#: IDP-108-190716 Plate Expiration: 01/16/2020

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

MTBE LCMS Methanol Hexane

Blank Blood Lot: Hemostat 445283-2 **Column**: UCT Selectra DA 100 x 2.1mm 3um

LCMS-QQQ ID: 069901

Pre-Analytic:

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

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
- Δ 4. Pipette 500μL 0.1% formic acid in water in wells of analytical plate for blood samples.
- ⊠ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ⊠ 6. Transfer 800μL of blood+acid mixture to corresponding wells of SLE+ plate.
- ⊠ 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)
- \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

Worklist path: D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS Batch Name THCQ TS

- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values \ge 0.98 for each analyte
- △ 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? Y / N
- ☑ 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Curves limited: THC 3-100, THC-COOH 10-250, THC-OH 3-100



D:\MassHunter\Data\2019\AM 25\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/17/2019 8:17:47 AM Calibration Last Update Batch results

Instrument

Sample

P4-A2

AM 27 THC quant.m

9/17/2019 4:11:49 AM

Injection Volume Sample Position

Acq. Method

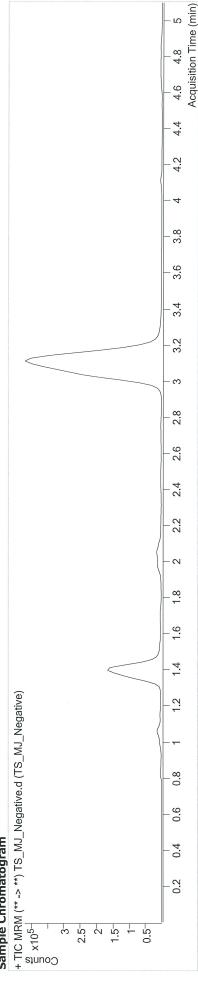
Acq. Date-Time

Sample Info.

TS_MJ_Negative.d TS_MJ_Negative

Data File Sample

Comment

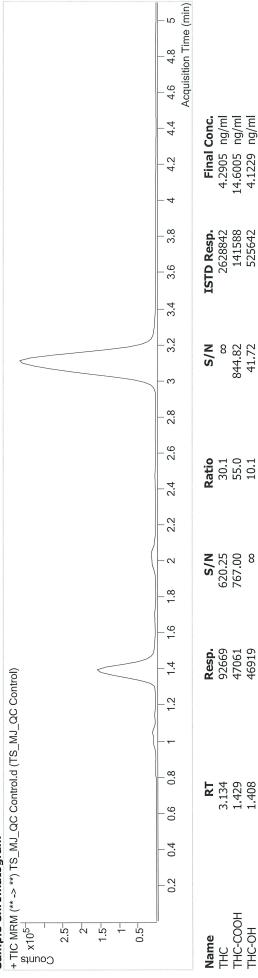




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pdate 9/21/2019 /:29:40 AM

TS_MJ_QC Control.d TS_MJ_QC Control Comment Data File Sample 9/17/2019 3:56:36 AM AM 27 THC quant.m Sample P4-H1 Injection Volume Sample Position Acq. Date-Time Sample Info. Acq. Method Instrument Type





AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin

Last Cal. Update

9/21/2019 7:29 AM

Analyst Name

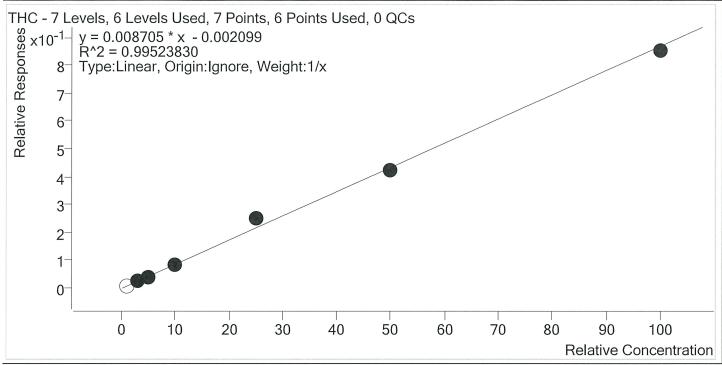
ISP\datastor

Analyte

THC

Internal Standard

THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS_MJ_Cal 1	1	×	1.0	1.2	116.0
TS_MJ_Cal 2	2	✓	3.0	3.0	98.7
TS_MJ_Cal 3	3	✓	5.0	4.8	95.1
TS_MJ_Cal 4	4	✓	10.0	9.5	95.1
TS_MJ_Cal 5	5	✓	25.0	28.8	115.2
TS_MJ_Cal 6	6	✓	50.0	48.9	97.7
TS MJ Cal 7	7	✓	100.0	98.1	98.1

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin

Last Cal. Update

9/21/2019 7:29 AM

Analyst Name

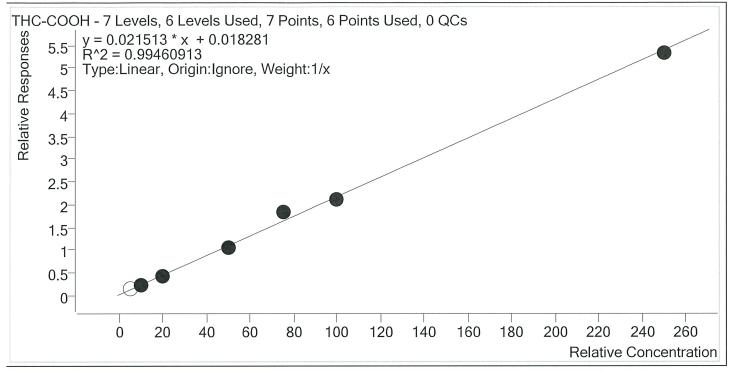
ISP\datastor

Analyte

THC-COOH

Internal Standard

THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS_MJ_Cal 1	1	×	5.0	6.3	125.4
TS_MJ_Cal 2	2	✓	10.0	10.4	103.6
TS_MJ_Cal 3	3	✓	20.0	18.4	92.2
TS_MJ_Cal 4	4	✓	50.0	47.6	95.2
TS_MJ_Cal 5	5	✓	75.0	85.1	113.5
TS_MJ_Cal 6	6	✓	100.0	96.9	96.9
TS MJ Cal 7	7	✓-	250.0	246.6	98.6

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin

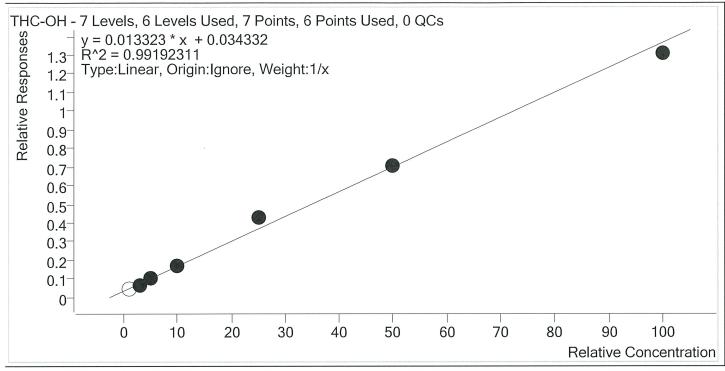
Last Cal. Update Analyst Name 9/21/2019 7:29 AM

Analyte

ISP\datastor THC-OH

Internal Standard

THC-OH-D3

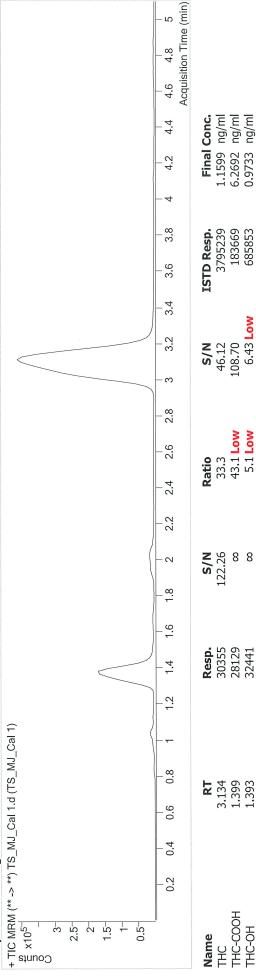


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS MJ Cal 1	1	×	1.0	1.0	97.3
TS_MJ_Cal 2	2	✓	3.0	2.6	88.0
TS_MJ_Cal 3	3	✓	5.0	4.9	98.1
TS_MJ_Cal 4	4	✓	10.0	9.9	98.7
TS MJ Cal 5	5	✓	25.0	29.8	119.1
TS MJ Cal 6	6	✓	50.0	50.2	100.3
TS MJ Cal 7	7	✓	100.0	95.6	95.6





TS_MJ_Cal 1.d TS_MJ_Cal 1 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM Comment Data File Sample 9/17/2019 3:03:08 AM AM 27 THC quant.m P4-A1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Sample Info. Acq. Method Instrument Type



Generated at 11:26 AM on 9/23/2019

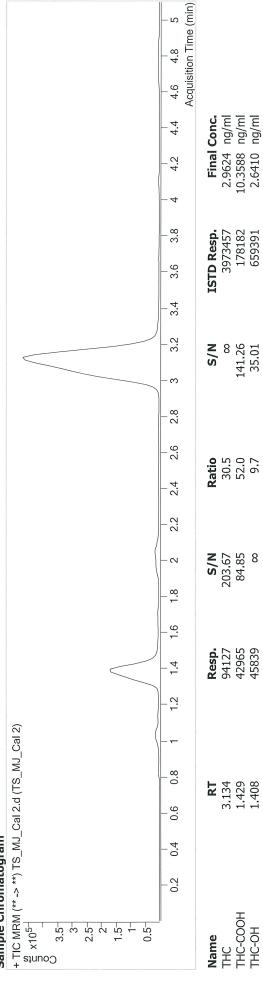
AM #27 Cannabinoids Quant. Results



TS_MJ_Cal 2.d TS_MJ_Cal 2 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin Data File Sample Comment 9/21/2019 7:29:40 AM 10 9/17/2019 3:11:00 AM AM 27 THC quant.m P4-B1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Acq. Method Instrument Type

Sample Chromatogram

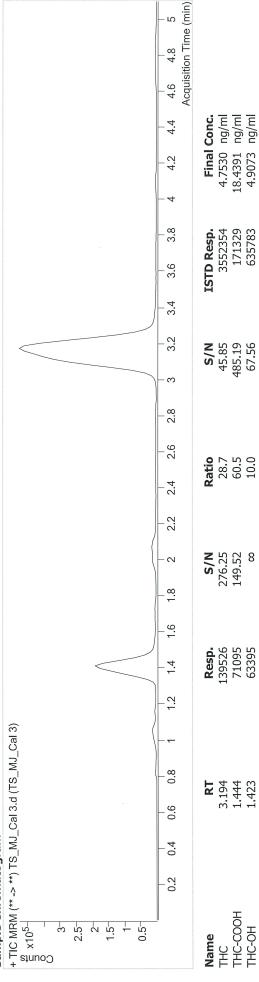
Sample Info.





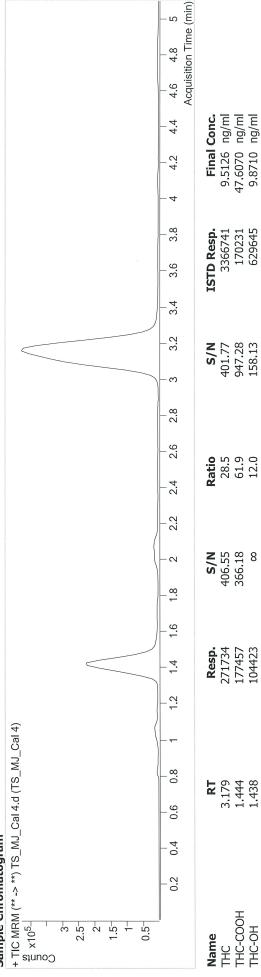
Batch results	D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM	19 MDS SP TS\QuantResults\T	HCQ_TS.batch.bin
Instrument	Falco	Data File	TS_MJ_Cal 3.d
Туре	Cal	Sample	TS_MJ_Cal 3
Acq. Method	AM 27 THC quant.m		
Sample Position	P4-C1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2019 3:18:37 AM		
Sample Info.			







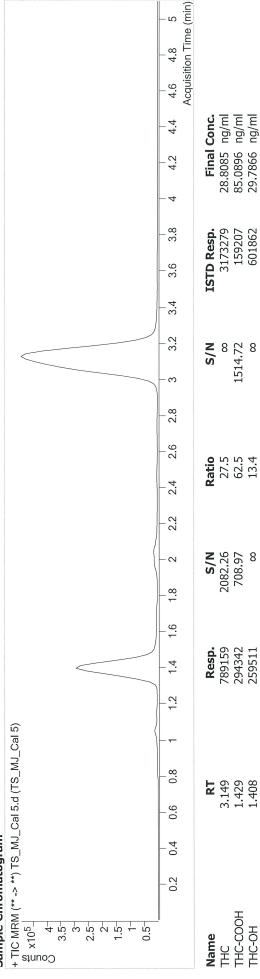
TS_MJ_Cal 4.d TS_MJ_Cal 4 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM Data File Sample Comment 9/17/2019 3:26:11 AM AM 27 THC quant.m P4-D1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Sample Info. Acq. Method Instrument Type





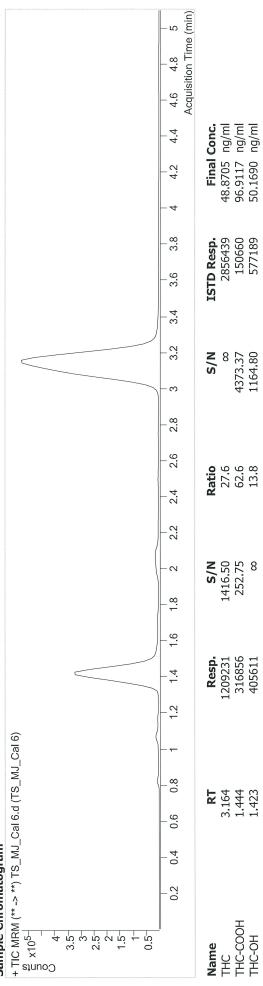
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TS_MJ_Cal 5.d TS_MJ_Cal 5 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM Data File Sample Comment 9/17/2019 3:33:47 AM AM 27 THC quant.m P4-E1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Sample Info. Acq. Method Instrument Type





TS_MJ_Cal 6.d TS_MJ_Cal 6 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM Data File Sample Comment 9/17/2019 3:41:24 AM AM 27 THC quant.m P4-F1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Sample Info. Acq. Method Instrument Type





TS_MJ_Cal 7.d TS_MJ_Cal 7 D:\MassHunter\Data\2019\AM 27\091619 MDS SP TS\QuantResults\THCQ_TS.batch.bin 9/21/2019 7:29:40 AM Data File Sample Comment 9/17/2019 3:49:00 AM AM 27 THC quant.m P4-G1 Calibration Last Update Injection Volume Sample Position Acq. Date-Time Batch results Sample Info. Acq. Method Instrument Type

