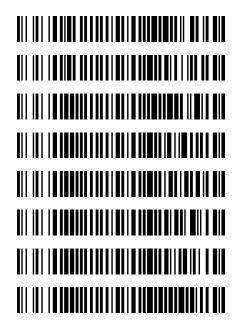


5/2/2024

Worklist: 6795

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2024-1508	1	BCK	AM 27 Blood THC Quant by LC-QQQ
M2024-1537	2	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1116	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1173	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ
P2024-1175	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1194	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1195	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1202	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: 05/02/2024 Analyst: <u>Tamara Salazar</u>
Plate lot#: 231212 Plate Retest Date: 06/12/2024

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: Lampire 23A52595 Blank Urine Lot: N/A Column: UCT Selectra DA 100 x 2.1mm 3um LCMS-QQQ ID: 069901

Pre-Analytic:

☑ 1. 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.
- □ 2. 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: 42
- ☑ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☑ 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Σ 7. Transfer 700-800μL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750μL
- ✓ 8. 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 9. Wait 5 minutes.
- ≥ 10. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 11. Wait 5 minutes.
- △ 12. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ⊠ 13. Add 2.25mL Hexane. (Add in 3 increments of 750uL)
- \boxtimes 14. Wait 5 minutes.
- □ 15. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- Σ 17. 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
- ✓ 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- ☑ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Incorrect well position specified for case M2024-1537-2. The well position was corrected and the sample was reinjected.

	1	2	3	4	5	6
А	IS + Cal. 1	IS + QC_1	P2024-1195-1			IS + QC_1
В	IS + Cal. 2	Neg Blood	P2024-1202-1			IS + Cal. 7
С	IS + Cal. 3	M2024-1508-1				IS + Cal. 6
D	IS + Cal. 4	M2024-1537-2				IS + Cal. 5
E	IS + Cal. 5	P2024-1116-1				IS + Cal. 4
F	IS + Cal. 6	P2024-1173-1				IS + Cal. 3
G	IS + Cal. 7	P2024-1175-1				IS + Cal. 2
Н	IS + QC_1	P2024-1194-1			IS + QC_1	IS + Cal. 1

All wells to contain 100 μl of residual DMSO

D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 5/9/2024 10:56:18 AM

Instrument **Type** Acq. Method **Sample Position Injection Volume** Falco (069901) Sample

AM 27 Agilent Method.m

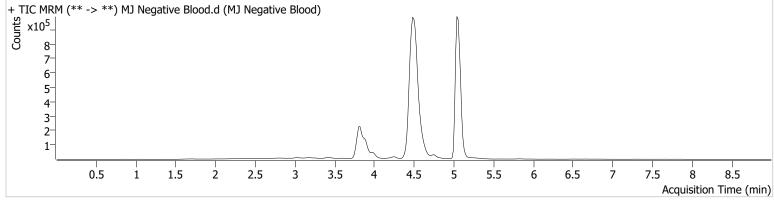
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Acq. Date-Time 5/2/2024 3:03:54 PM

Sample Info.

Data File Sample Operator Comment MJ Negative Blood.d MJ Negative Blood Tamara Salazar

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\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin
Calibration Last Update
5/9/2024 10:56:18 AM

Instrument
Type
Acq. Method
Sample Resition

Falco (069901) QC

AM 27 Agilent Method.m

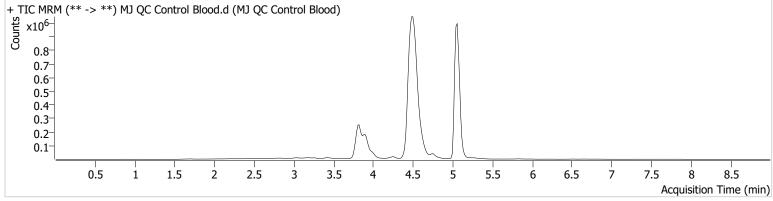
Sample Position Injection Volume Acq. Date-Time P1-H1 10 5/2/2024 1:57:35 PM

Sample Info.

Data File Sample Operator Comment

MJ QC Control Blood.d MJ QC Control Blood Tamara Salazar

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	5.060	178845	778.36	24.9	125.27	4167667	5.0998 ng/ml
THC-COOH	3.909	4 3310	∞	212.4	7137.00	412109	15.8636 ng/ml
THC-OH	3.820	96905	∞	12.3	∞	1124663	5.0529 ng/ml

Batch results
D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin
Calibration Last Update
5/9/2024 10:56:18 AM

Instrument Type Falco (069901)

QC

Acq. Method

AM 27 Agilent Method.m

Sample Position
Injection Volume

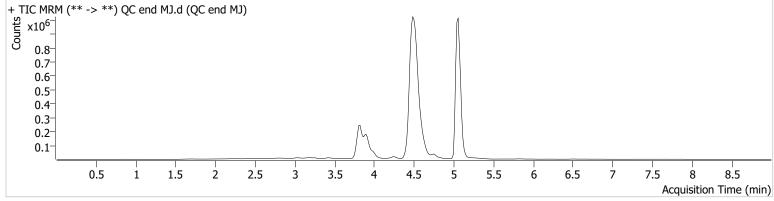
P1-A2 10

Acq. Date-Time Sample Info.

5/2/2024 7:25:48 PM

Data File Sample Operator Comment QC end MJ.d QC end MJ Tamara Salazar

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	173212	1474.29	25.1	∞	4152355	4.9649 ng/ml
THC-COOH	3.909	40313	181.37	218.6	∞	435062	14.1352 ng/ml
THC-OH	3.820	89376	∞	12.2	65.72	1049973	4.9934 ng/ml

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Instrument Type Acq. Method Falco (069901)

QC

AM 27 Agilent Method.m

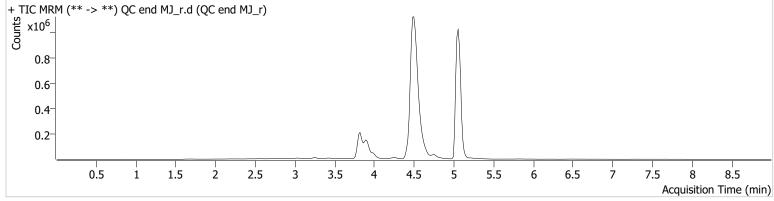
Sample Position
Injection Volume

P1-A2

Acq. Date-Time Sample Info.

10 5/3/2024 11:04:15 AM Data File Sample Operator Comment QC end MJ_r.d QC end MJ_r Tamara Salazar

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	171841	∞	25.8	30.35	4232555	4.8394 ng/ml
THC-COOH	3.909	32848	∞	218.4	496.97	347474	14.3955 ng/ml
THC-OH	3.820	74290	134.52	12.6	∞	828986	5.2499 ng/ml



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin

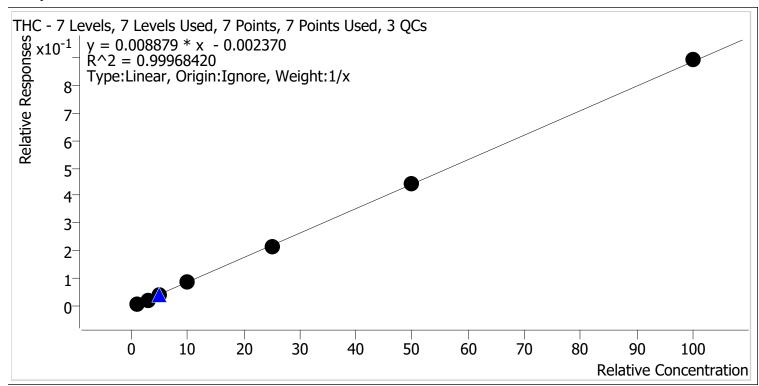
Last Cal. Update

5/9/2024 10:56 AM

Analyst Name

ISP\datastor

Analyte THC Internal Standard THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_r	1	~	1.0	1.1	110.8
Cal 2 MJ	2	~	3.0	2.9	95.2
Cal 3 MJ	3	~	5.0	4.9	97.7
Cal 4 MJ	4	~	10.0	9.7	97.4
Cal 5 MJ	5	~	25.0	24.3	97.4
Cal 6 MJ	6	~	50.0	50.3	100.7
Cal 7 MJ	7	~	100.0	100.7	100.7



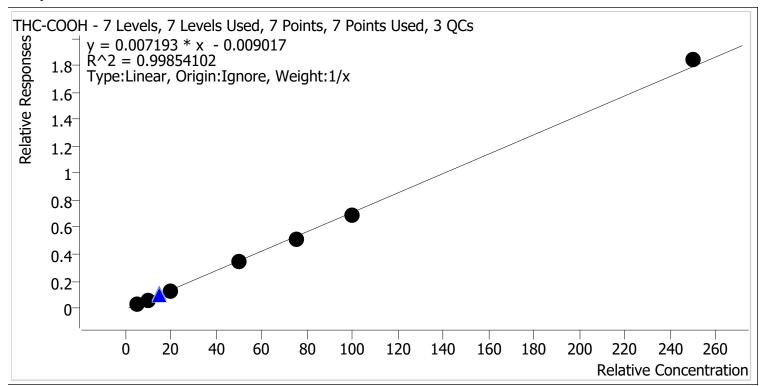
AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin

Last Cal. Update 5/9/2024 10:56 AM

Analyst Name ISP\datastor
Analyte THC-COOH

THC-COOH Internal Standard THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_r	1	~	5.0	5.6	112.5
Cal 2 MJ	2	~	10.0	9.9	98.6
Cal 3 MJ	3	~	20.0	18.8	94.1
Cal 4 MJ	4	~	50.0	49.5	98.9
Cal 5 MJ	5	~	75.0	71.7	95.7
Cal 6 MJ	6	~	100.0	97.4	97.4
Cal 7 MJ	7	~	250.0	257.1	102.8



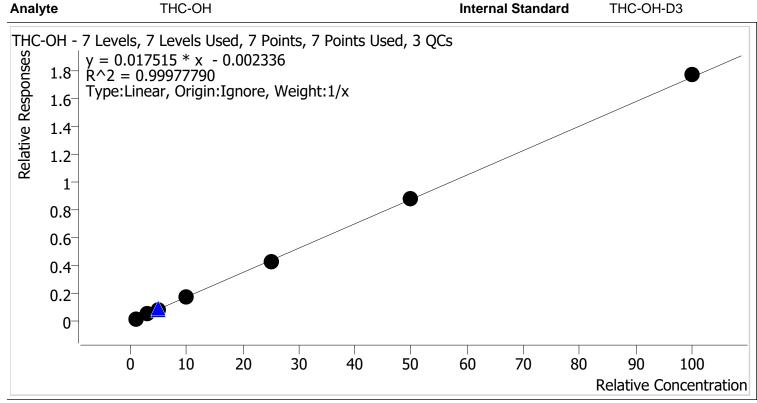
AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin

Last Cal. Update 5/9/2024 10:56 AM

Analyst Name ISP\datastor

Analyte THC-OH Internal Standard



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_r	1	V	1.0	1.0	103.8
Cal 2 MJ	2	V	3.0	3.0	101.3
Cal 3 MJ	3	~	5.0	5.0	99.4
Cal 4 MJ	4	V	10.0	9.7	97.3
Cal 5 MJ	5	V	25.0	24.3	97.3
Cal 6 MJ	6	~	50.0	49.9	99.8
Cal 7 MJ	7	~	100.0	101.0	101.0

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Data File

Instrument Type Acq. Method Falco (069901) Cal

Acq. Method
Sample Position

AM 27 Agilent Method.m P1-B1

Injection Volume
Acq. Date-Time

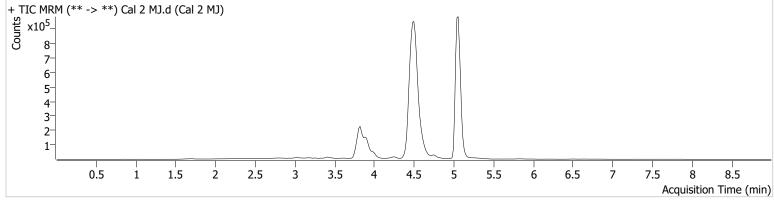
10 5/2/2024 12:25:55 PM

Sample Info.

thod.m Sample
Operator
Comment

Cal 2 MJ.d Cal 2 MJ Tamara Salazar

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	5.060	98222	553.05	26.2	∞	4271391	2.8567 ng/ml
THC-COOH	3.909	25331	225.98	217.2	1757.10	409310	9.8570 ng/ml
THC-OH	3.820	51823	∞	12.6	36.27	1018184	3.0393 ng/ml

D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 5/9/2024 10:56:18 AM

Instrument **Type** Acq. Method **Sample Position** Falco (069901) Cal

P1-C1 **Injection Volume** 10

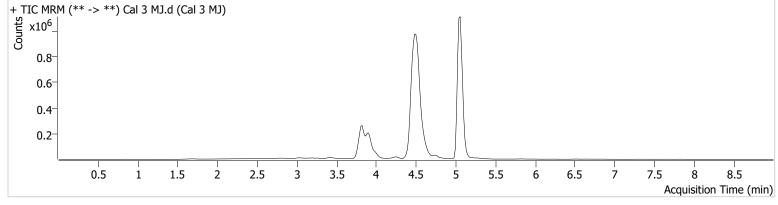
Acq. Date-Time Sample Info.

AM 27 Agilent Method.m

5/2/2024 12:39:01 PM

Data File Sample Operator Comment Cal 3 MJ.d Cal 3 MJ Tamara Salazar

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	193594	∞	23.8	107.85	4721008	4.8852 ng/ml
THC-COOH	3.909	56713	282.76	218.9	238.08	448734	18.8236 ng/ml
THC-OH	3.820	98054	∞	12.1	∞	1157169	4.9714 ng/ml

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Instrument Type Acq. Method Falco (069901) Cal

d.m

Sample Position
Injection Volume

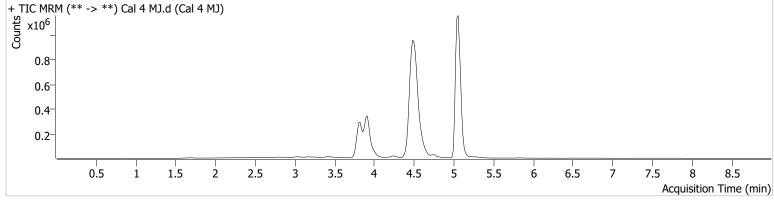
AM 27 Agilent Method.m P1-D1

Acq. Date-Time
Sample Info.

10 5/2/2024 12:52:07 PM Data File Sample Operator Comment

Cal 4 MJ.d Cal 4 MJ Tamara Salazar

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	397106	∞	23.7	∞	4719409	9.7434 ng/ml
THC-COOH	3.909	150942	2558.56	215.2	4 271.78	435204	49.4697 ng/ml
THC-OH	3.820	200542	∞	12.0	40.21	1192735	9.7331 ng/ml

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Instrument Type Acq. Method Falco (069901) Cal

1

AM 27 Agilent Method.m

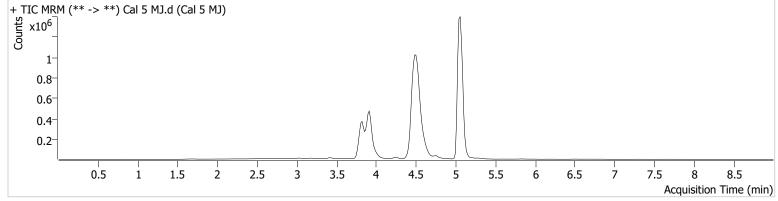
Sample Position Injection Volume Acq. Date-Time P1-E1 10

5/2/2024 1:05:13 PM

Sample Info.

Data FileCal 5 MJ.dSampleCal 5 MJOperatorTamara SalazarCommentOnly drugs and

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	1064271	6278.38	25.2	∞	4977162	24.3493 ng/ml
THC-COOH	3.909	230031	2099.57	213.0	2724.55	453665	71.7437 ng/ml
THC-OH	3.820	512692	∞	13.0	œ	1209386	24.3375 ng/ml

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Instrument Type Acq. Method Falco (069901) Cal

m

Method AM 27 Agilent Method.m ple Position P1-F1

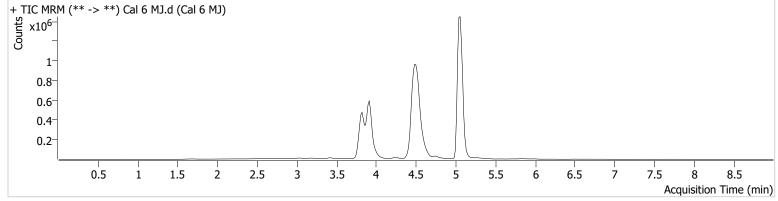
Sample Position P1-**Injection Volume** 10 **Acq. Date-Time** 5/2

5/2/2024 1:18:19 PM

Sample Info.

Data FileCal 6 MJ.dSampleCal 6 MJOperatorTamara SalazarCommentOnly drugs and

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	1892021	∞	24.4	∞	4254703	50.3493 ng/ml
THC-COOH	3.909	291510	1965.23	219.2	∞	421524	97.3944 ng/ml
THC-OH	3.820	1023070	∞	13.0	∞	1173799	49.8967 ng/ml

Batch results D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin Calibration Last Update 5/9/2024 10:56:18 AM

Instrument Type Acq. Method Falco (069901) Cal

od.m

Sample Position Injection Volume Acq. Date-Time AM 27 Agilent Method.m P1-G1

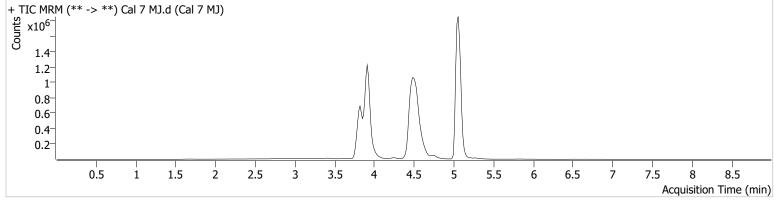
10 5/2/20

5/2/2024 1:31:23 PM

Sample Info.

Data FileCal 7 MJ.dSampleCal 7 MJOperatorTamara SalazarCommentOnly drugs and

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	3474979	∞	26.1	œ	3896465	100.7078 ng/ml
THC-COOH	3.909	696817	∞	214.8	19437.41	378650	257.0873 ng/ml
THC-OH	3.820	2021751	∞	13.1	œ	1144581	100.9840 ng/ml

D:\MassHunter\Data\2024\AM 27 28\050224 AM 27 28 TS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 5/9/2024 10:56:18 AM

Instrument **Type** Acq. Method Falco (069901) Cal

AM 27 Agilent Method.m

Sample Position Injection Volume Acq. Date-Time

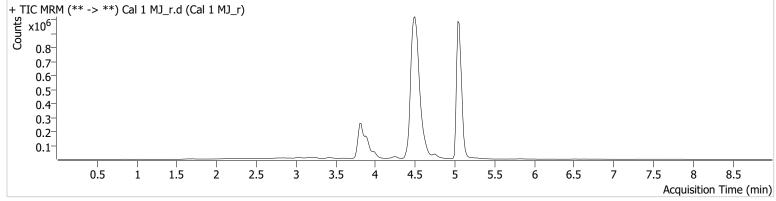
Sample Info.

P1-A1 10

5/2/2024 2:37:43 PM

Data File Sample Operator Comment Cal 1 MJ_r.d Cal 1 MJ_r Tamara Salazar

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	31792	479.53	26.7	∞	4255060	1.1084 ng/ml
THC-COOH	3.909	14003	110.21	223.7	220.61	445387	5.6242 ng/ml
THC-OH	3.820	18517	∞	12.7	11.21	1168627	1.0380 ng/ml