

Worklist: 6875

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2024-2484	4	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-2682	2	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ	
M2024-2846	2	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ	
P2024-1446	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ	
P2024-1831	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ	
P2024-1832	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ	
P2024-1859	3	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1873	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1947	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-2000	3	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-2005	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ	
P2024-2006	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-2018	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-2081	2	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ	
P2024-2157	1	BCK	AM 27 Blood THC Quant by LC-QQQ	

TS

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

Extraction Date: 07/22/2024

Plate lot#: 240513

Mobile phase A: 0.1% Formic Acid in LCMS Water

Blank Blood Lot: Lampire 24052816

Column: UCT Selectra DA 100 x 2.1mm 3um

Analyst: Tamara Salazar

Plate Retest Date: 11/13/2024

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Urine Lot: POC021022

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. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. **Pipette ID: 42**
- ☒ 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.
- ☒ 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate.
Amount transferred: **750 µL**
- ☒ 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)**
- ☒ 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)**
- ☒ 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
- ☒ 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

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

COMMENTS:

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1		P2024-1446-1	P2024-1947-1	IS + QC_1
B	IS + Cal. 2			M2024-2846-2	P2024-1873-1	IS + Cal. 7
C	IS + Cal. 3			M2024-2682-2	P2024-1859-3	IS + Cal. 6
D	IS + Cal. 4			Neg Urine	P2024-1832-1	IS + Cal. 5
E	IS + Cal. 5			P2024-2157-1	P2024-1831-1	IS + Cal. 4
F	IS + Cal. 6			P2024-2018-1	M2024-2484-4	IS + Cal. 3
G	IS + Cal. 7		P2024-2005-1	P2024-2006-1	Neg Blood	IS + Cal. 2
H	IS + QC_1		P2024-2081-2	P2024-2000-3	IS + QC_1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

AM #27 Cannabinoids Quant. Results

TS



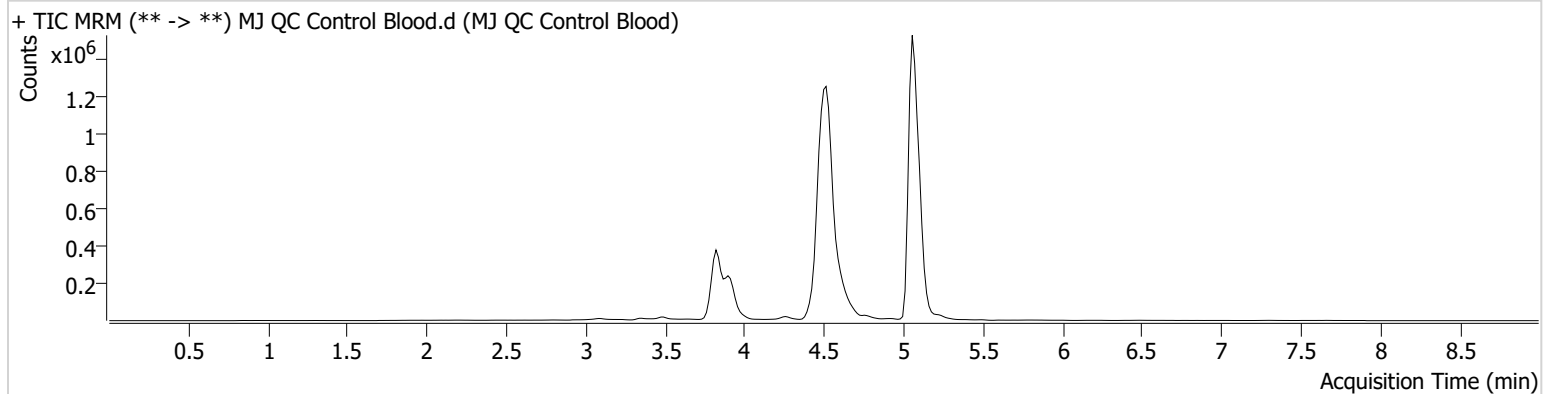
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Calibration Last Update 7/26/2024 10:50:21 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 27 Agilent Method.m
Sample Position P5-A6
Injection Volume 10
Acq. Date-Time 7/22/2024 2:55:44 PM
Sample Info.

Data File MJ QC Control Blood.d
Sample MJ QC Control Blood
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	294316	∞	25.7	∞	6219401	5.1589 ng/ml
THC-COOH	3.924	50562	660.39	232.9	1035.89	586602	14.7599 ng/ml
THC-OH	3.820	108555	∞	13.7	83.93	1475824	4.8368 ng/ml

AM #27 Cannabinoids Quant. Results

TS

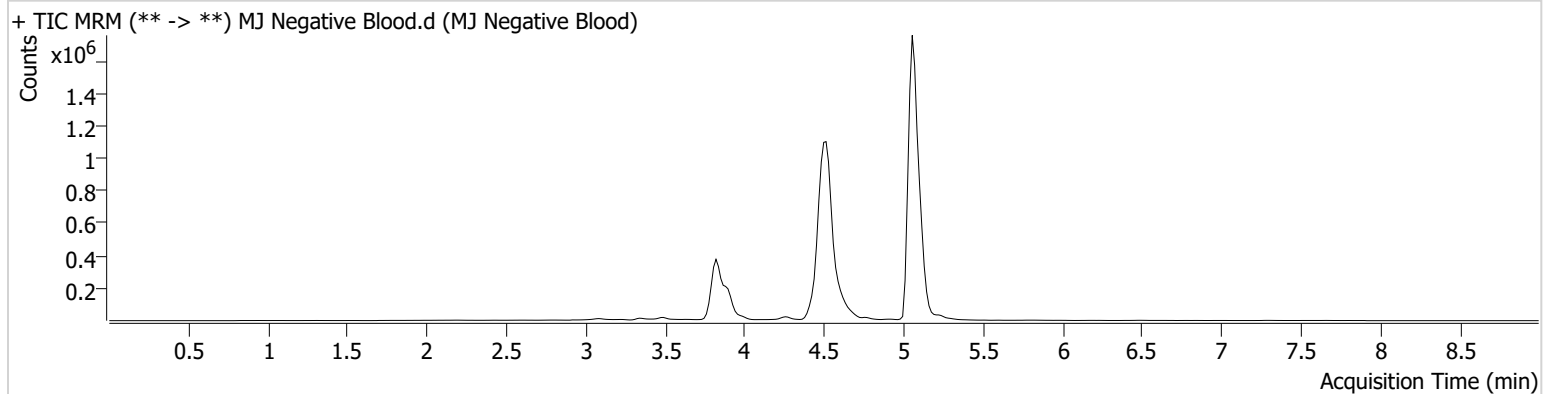


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Calibration Last Update 7/26/2024 10:50:21 AM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 27 Agilent Method.m	Operator	Tamara Salazar
Sample Position	P5-G5	Comment	
Injection Volume	10		
Acq. Date-Time	7/22/2024 3:21:58 PM		
Sample Info.			

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Sample Chromatogram



AM #27 Cannabinoids Quant. Results

TS



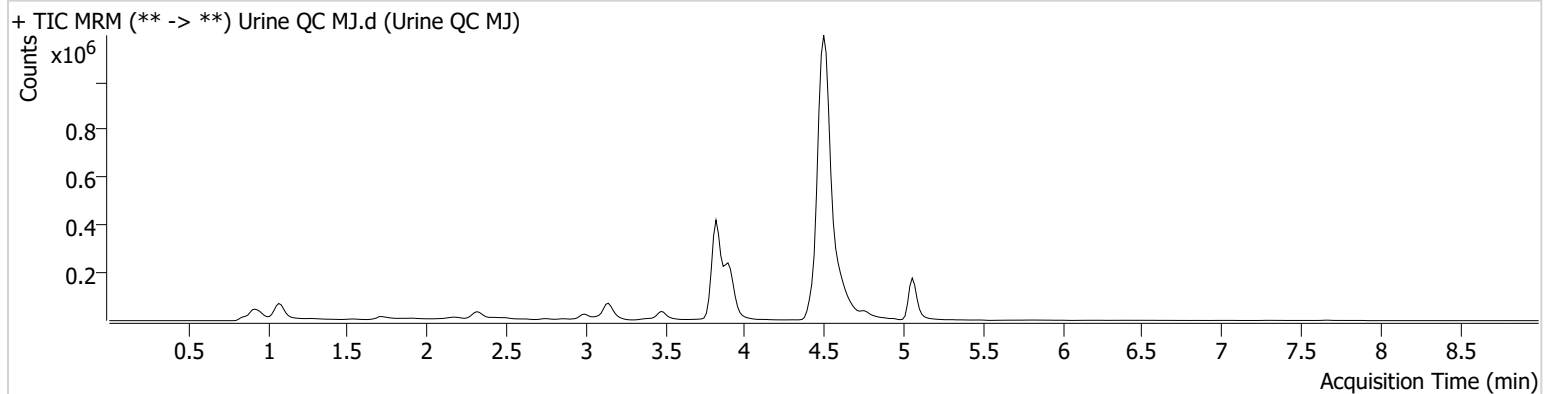
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Instrument Falco (069901)
Type QC
Acq. Method AM 27 Agilent Method.m
Sample Position P5-H5
Injection Volume 10
Acq. Date-Time 7/22/2024 10:47:50 PM
Sample Info.

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

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	27096	192.66	30.6	∞	612071	4.8429 ng/ml
THC-COOH	3.909	51129	∞	224.6	∞	600019	14.5978 ng/ml
THC-OH	3.820	120812	∞	13.0	∞	1537602	5.1441 ng/ml

AM #27 Cannabinoids Quant. Results

TS



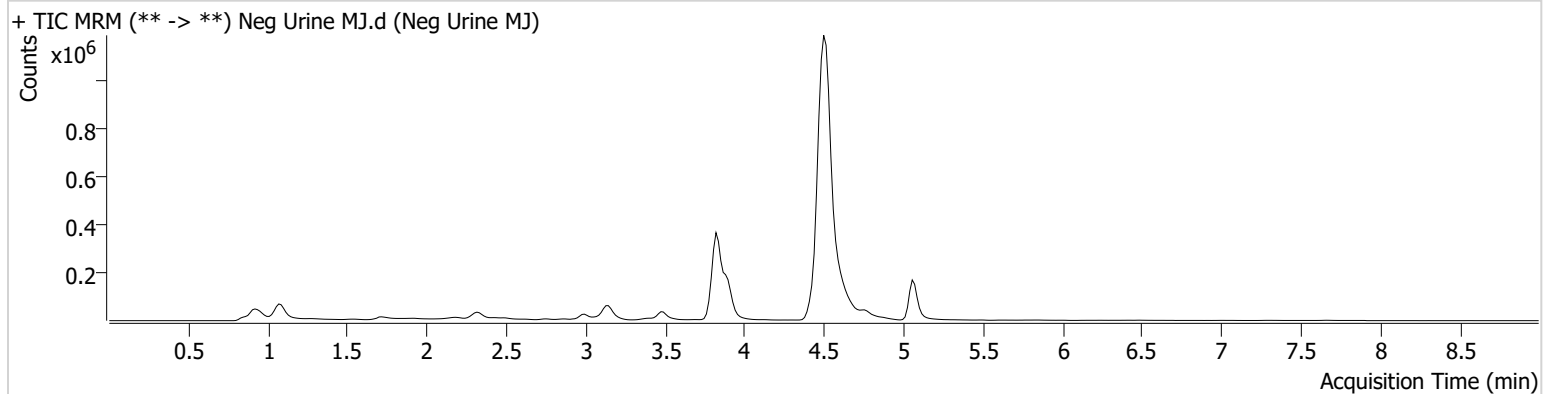
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Instrument Falco (069901)
Type Sample
Acq. Method AM 27 Agilent Method.m
Sample Position P5-D4
Injection Volume 10
Acq. Date-Time 7/22/2024 8:10:30 PM
Sample Info.

Data File Neg Urine MJ.d
Sample Neg Urine MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



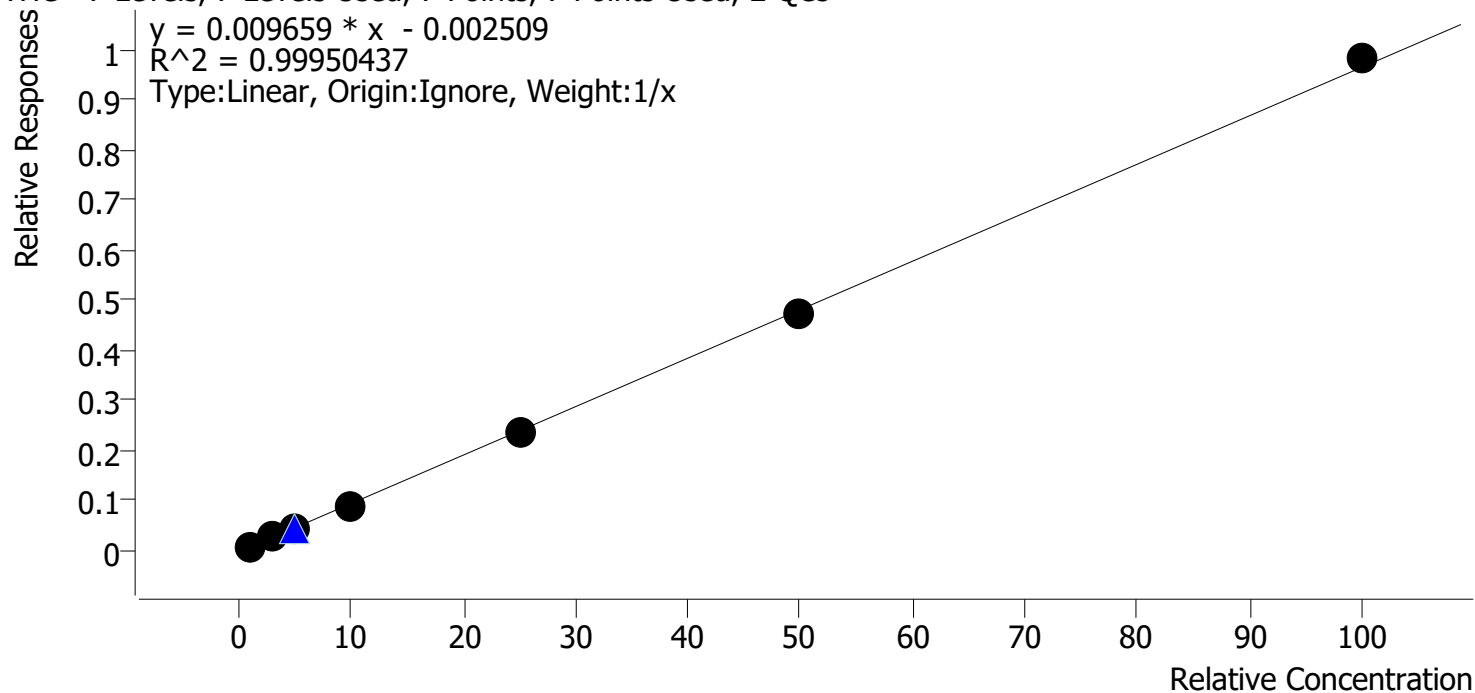
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AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\072224 AM 27 28 TS\QuantResults\AM 27.batch.bin
Last Cal. Update 7/26/2024 10:50 AM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.1	109.3
Cal 2 MJ	2	✓	3.0	2.9	97.8
Cal 3 MJ	3	✓	5.0	4.9	98.3
Cal 4 MJ	4	✓	10.0	9.6	96.0
Cal 5 MJ	5	✓	25.0	24.7	98.8
Cal 6 MJ	6	✓	50.0	49.0	98.0
Cal 7 MJ	7	✓	100.0	101.8	101.8

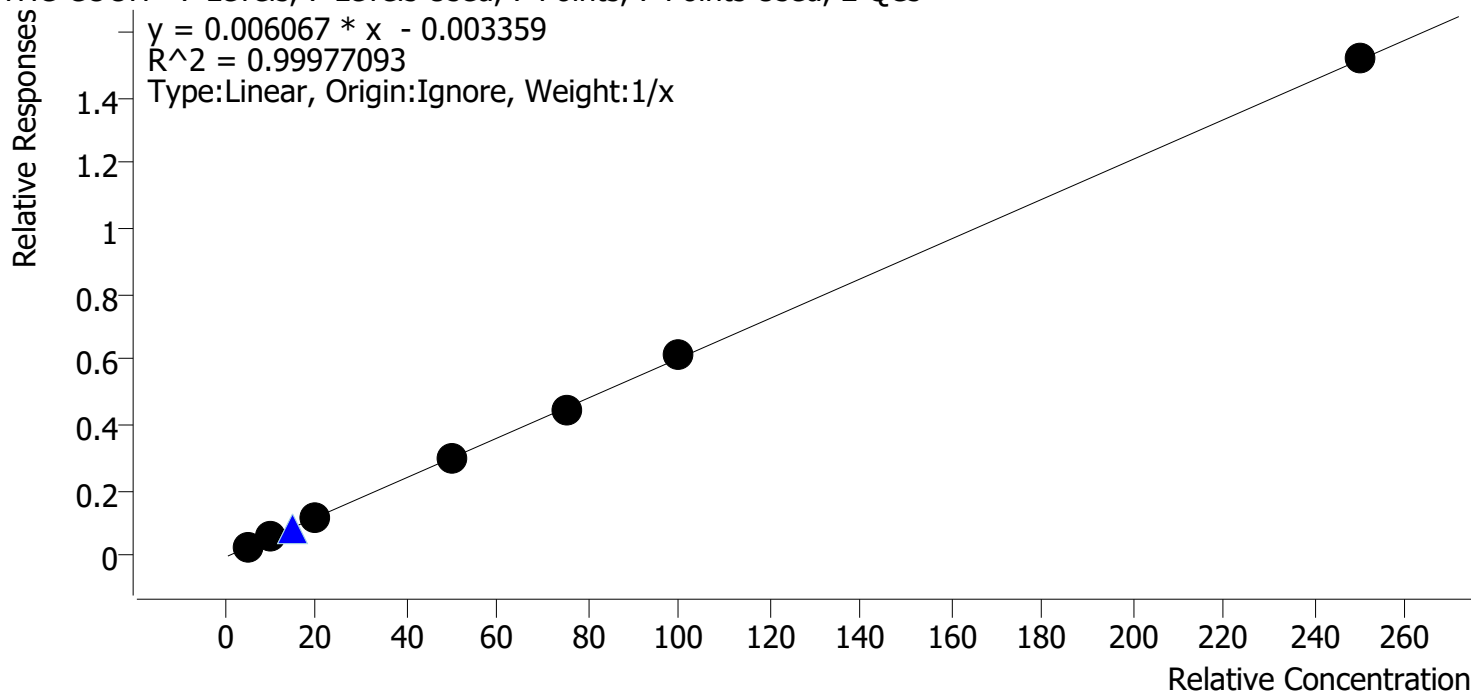
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AM #27 Cannabinoids Quant. Calibration Curve Report

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Last Cal. Update 7/26/2024 10:50 AM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	5.0	5.2	104.8
Cal 2 MJ	2	✓	10.0	9.7	96.9
Cal 3 MJ	3	✓	20.0	19.9	99.3
Cal 4 MJ	4	✓	50.0	49.7	99.4
Cal 5 MJ	5	✓	75.0	73.3	97.7
Cal 6 MJ	6	✓	100.0	101.6	101.6
Cal 7 MJ	7	✓	250.0	250.6	100.2

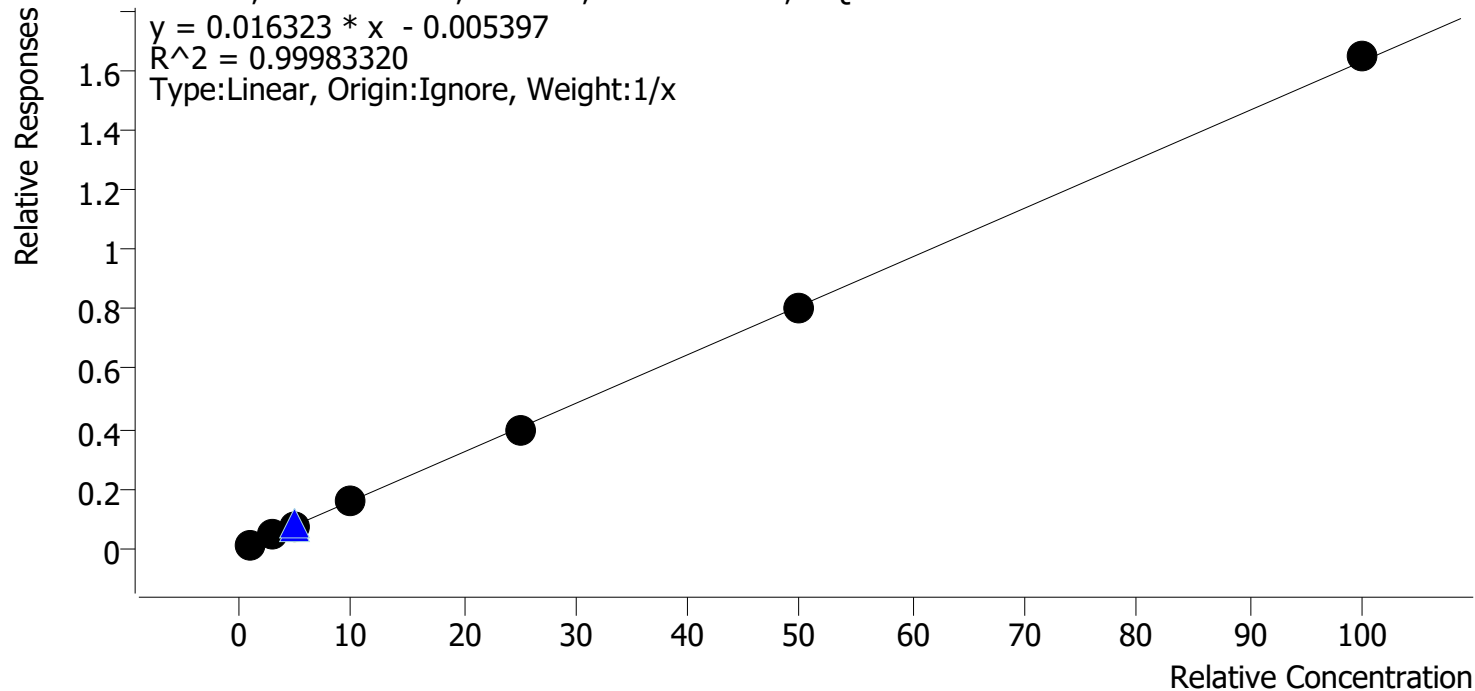
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AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\072224 AM 27 28 TS\QuantResults\AM 27.batch.bin
Last Cal. Update 7/26/2024 10:50 AM
Analyst Name ISP\Datastor
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.1	105.7
Cal 2 MJ	2	✓	3.0	3.0	99.7
Cal 3 MJ	3	✓	5.0	4.9	97.4
Cal 4 MJ	4	✓	10.0	9.8	98.4
Cal 5 MJ	5	✓	25.0	24.6	98.5
Cal 6 MJ	6	✓	50.0	49.6	99.3
Cal 7 MJ	7	✓	100.0	101.0	101.0

AM #27 Cannabinoids Quant. Results

TS



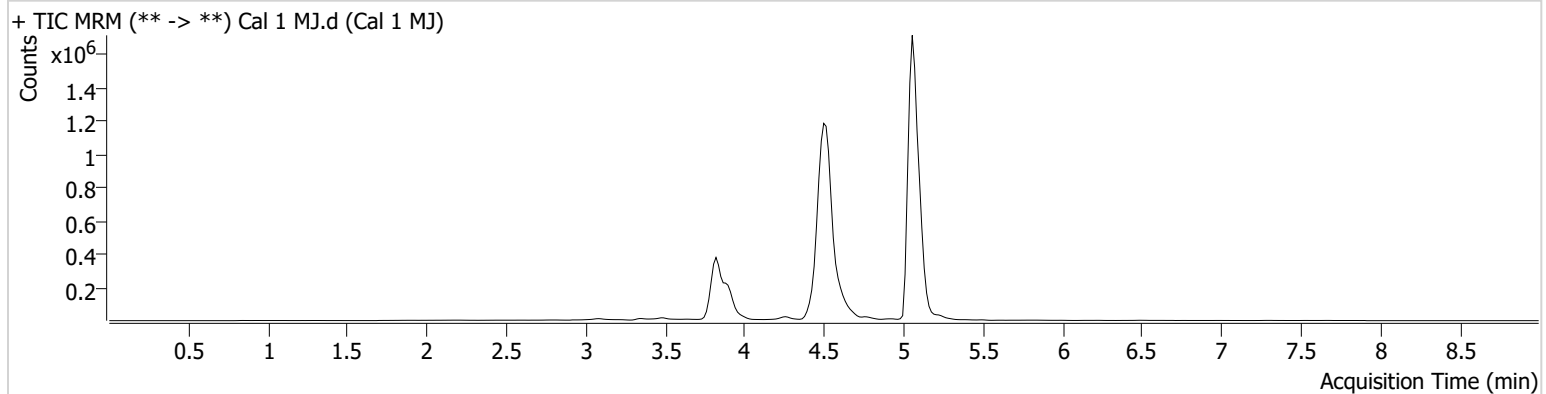
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Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-H6
Injection Volume 10
Acq. Date-Time 7/22/2024 1:10:36 PM
Sample Info.

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

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	60024	350.24	28.1	21.05	7457008	1.0930 ng/ml
THC-COOH	3.924	18789	84.48	217.2	252.25	660894	5.2393 ng/ml
THC-OH	3.820	19204	∞	12.1	∞	1619083	1.0572 ng/ml

AM #27 Cannabinoids Quant. Results

TS



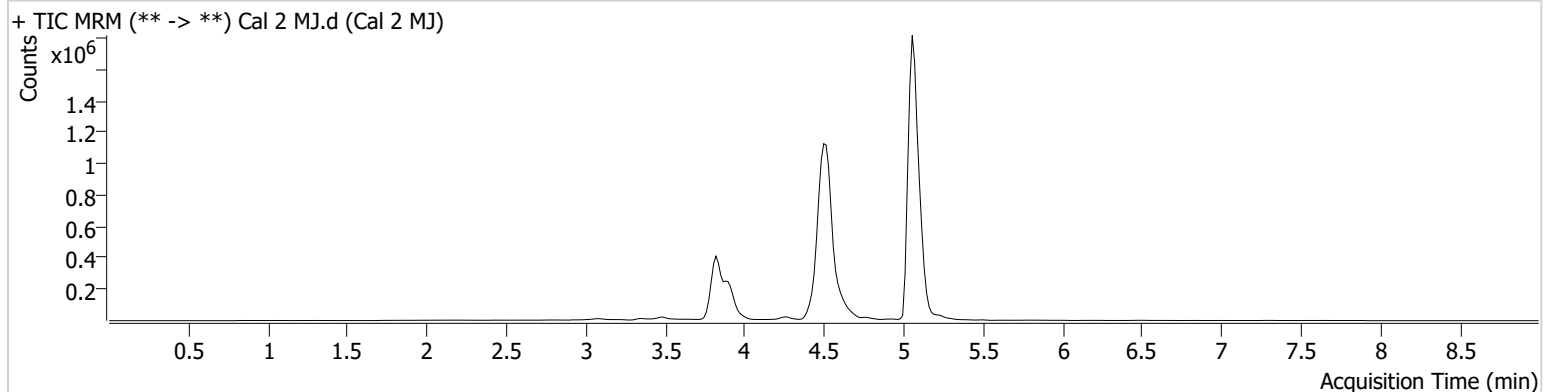
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Calibration Last Update 7/26/2024 10:50:21 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-G6
Injection Volume 10
Acq. Date-Time 7/22/2024 1:23:55 PM
Sample Info.

Data File Cal 2 MJ.d
Sample Cal 2 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	199835	∞	26.2	∞	7732889	2.9351 ng/ml
THC-COOH	3.909	38102	132.48	230.5	615.78	687022	9.6941 ng/ml
THC-OH	3.820	73218	∞	13.0	∞	1685698	2.9915 ng/ml

AM #27 Cannabinoids Quant. Results

TS



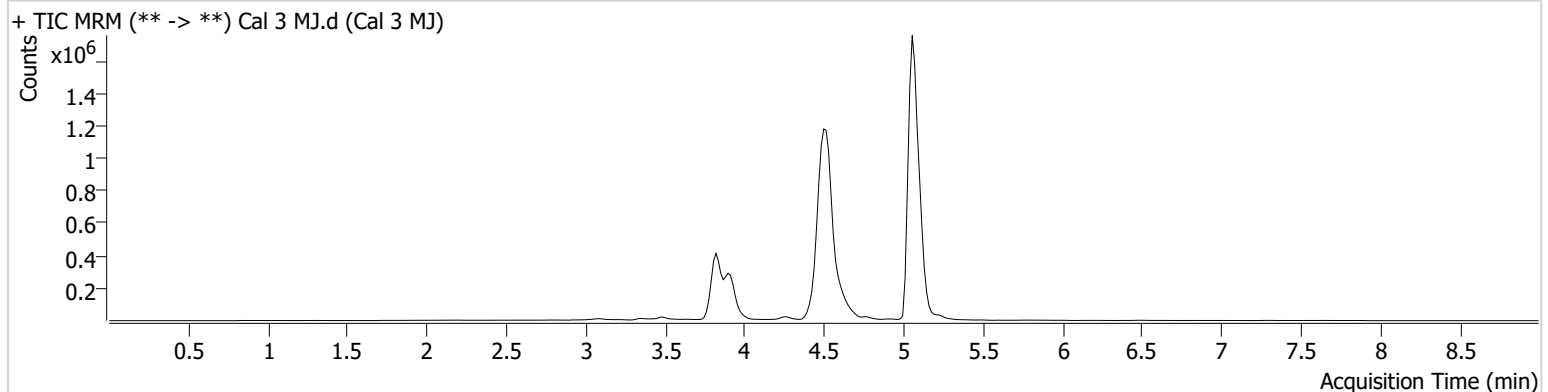
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Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-F6
Injection Volume 10
Acq. Date-Time 7/22/2024 1:37:02 PM
Sample Info.

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

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	329174	∞	26.7	∞	7320241	4.9151 ng/ml
THC-COOH	3.909	77755	232.07	231.4	∞	663686	19.8627 ng/ml
THC-OH	3.820	121407	∞	13.8	∞	1637858	4.8717 ng/ml

AM #27 Cannabinoids Quant. Results

TS



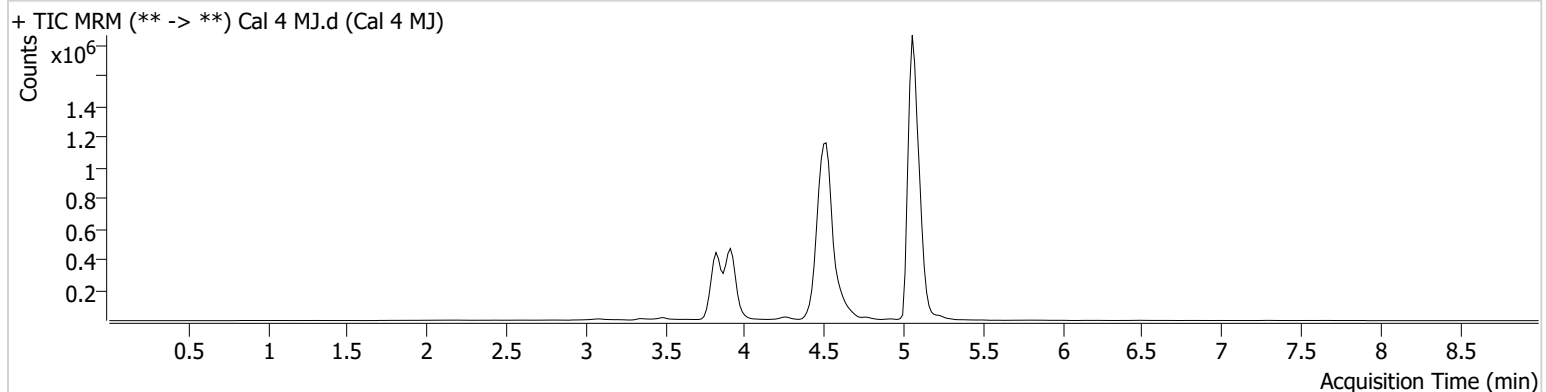
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Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-E6
Injection Volume 10
Acq. Date-Time 7/22/2024 1:50:09 PM
Sample Info.

Data File Cal 4 MJ.d
Sample Cal 4 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	676323	1927.68	26.6	∞	7495187	9.6015 ng/ml
THC-COOH	3.909	195396	1163.46	221.8	∞	655442	49.6869 ng/ml
THC-OH	3.835	260725	∞	13.0	∞	1679463	9.8412 ng/ml

AM #27 Cannabinoids Quant. Results

TS



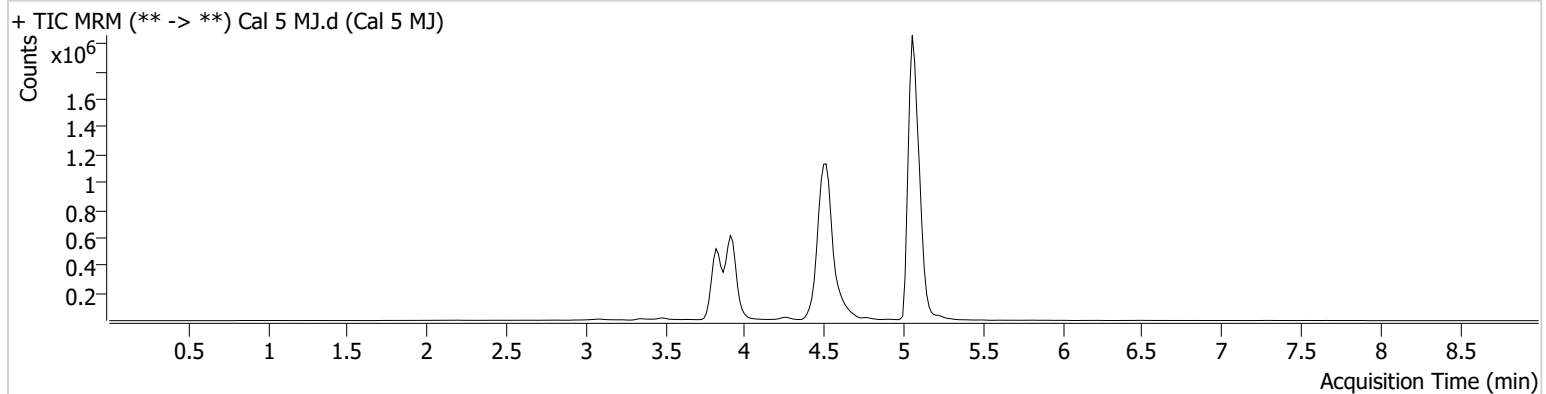
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Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-D6
Injection Volume 10
Acq. Date-Time 7/22/2024 2:03:16 PM
Sample Info.

Data File Cal 5 MJ.d
Sample Cal 5 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	1687772	∞	26.1	∞	7150903	24.6947 ng/ml
THC-COOH	3.909	279826	∞	221.6	∞	633878	73.3110 ng/ml
THC-OH	3.835	626140	∞	13.2	∞	1579730	24.6125 ng/ml

AM #27 Cannabinoids Quant. Results

TS



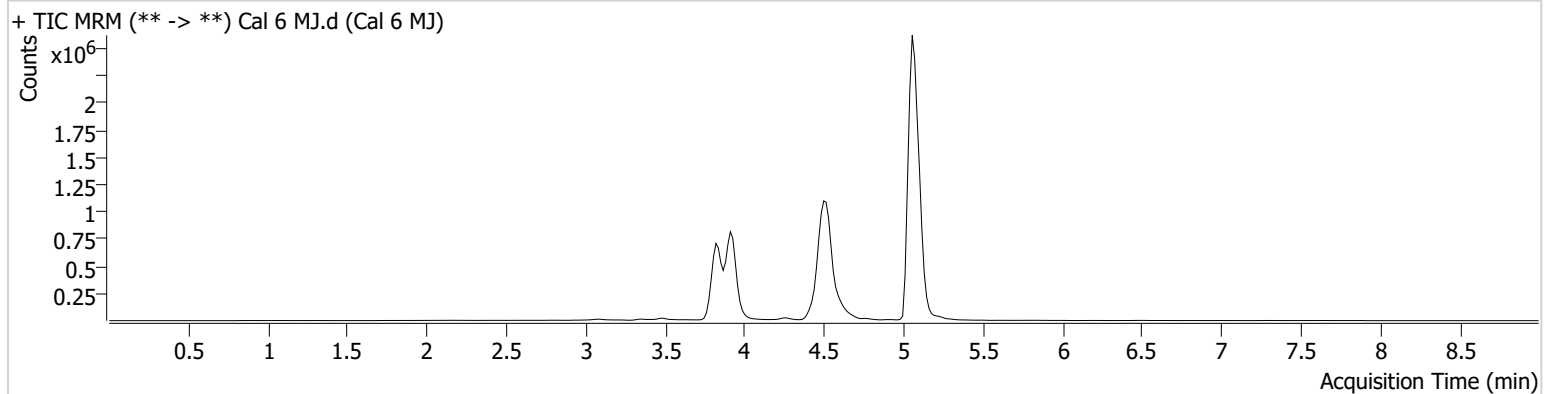
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Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-C6
Injection Volume 10
Acq. Date-Time 7/22/2024 2:16:24 PM
Sample Info.

Data File Cal 6 MJ.d
Sample Cal 6 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	3481894	∞	26.3	∞	7395494	49.0022 ng/ml
THC-COOH	3.909	387304	13585.36	225.1	∞	631772	101.5921 ng/ml
THC-OH	3.835	1328315	∞	13.6	∞	1650440	49.6361 ng/ml

AM #27 Cannabinoids Quant. Results

TS



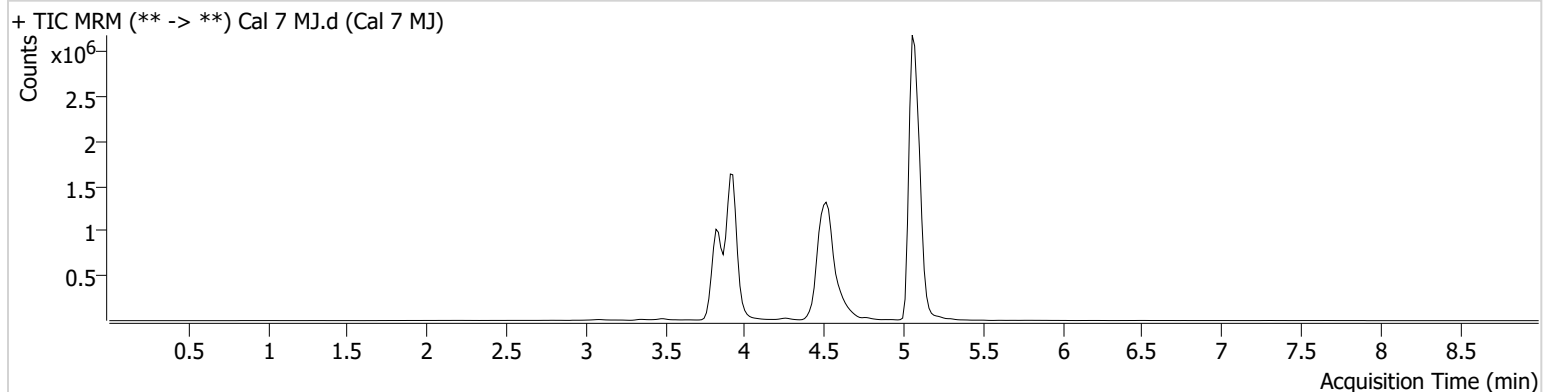
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Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P5-B6
Injection Volume 10
Acq. Date-Time 7/22/2024 2:29:31 PM
Sample Info.

Data File Cal 7 MJ.d
Sample Cal 7 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	6257002	40881.02	26.6	∞	6382134	101.7583 ng/ml
THC-COOH	3.924	911373	∞	225.2	∞	600684	250.6138 ng/ml
THC-OH	3.835	2657576	∞	13.5	∞	1617435	100.9897 ng/ml