



Worklist: 6850

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
M2024-1947	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-1982	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-2017	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-2070	2	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-2117	2	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1171	3	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1487	2	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1516	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1517	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1519	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1554	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1601	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ	
P2024-1737	2	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1748	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1774	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1776	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1779	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-1818	1	BCK	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: 06/14/2024

Plate lot#: 240513

Mobile phase A: 0.1% Formic Acid in LCMS Water

Blank Blood Lot: Lampire 24C52816

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 11/13/2024

Mobile phase B: 0.1% Formic acid in Acetonitrile

Column: UCT Selectra DA 100 x 2.1mm 3um

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 (if applicable): add 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
- 3. Using a calibrated pipette, add **1000µl blood or 1000µl hydrolyzed urine** into the appropriate wells of the analytical (standards) plate. **Pipette ID: #42**
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Add **500µL of 0.1% formic acid in water to blood samples or 500µl of saturated phosphate buffer to urine samples** to the appropriate wells of the analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **800µL of blood+acid mixture or urine+acid** to corresponding wells of SLE+ plate.
- 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)** Manifold ID: 067104
- 9. Wait 5 minutes.
- 10. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- 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)**
- 14. Wait 5 minutes.
- 15. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. **SPE Dry ID: 067103**
- 17. 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. Case sample response for THC 1ng/mL and OH-THC 3ng/mL (quantitative), Carboxy-THC: 5ng/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. THC concentrations of 1-3ng/mL will be reported qualitatively.
- 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- 6. Enter QCs into control charting.
- 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Run stopped due to high pressure and was restarted shortly after (~2 hours), after the issue was remediated. M2024-1947-1 and M2024-1982-1 were reinjected due to low ISTD responses. M2024-2017-1 was reinjected as the blank run before it did

not properly inject. New mobile phase had to be made prior to reinjecting this sample, so per the method, the negative control was also re injected and the sample and negative control were bracketed by QC's.



	1	2	3	4	5	6
A	IS + Cal. 1	QC2	P2024-1487-2	P2024-1774-1		
B	IS + Cal. 2	NEG Blood	P2024-1516-1	P2024-1776-1		
C	IS + Cal. 3	M2024-1947-1	P2024-1517-1	P2024-1779-1		
D	IS + Cal. 4	M2024-1982-1	P2024-1519-1	P2024-1818-1		
E	IS + Cal. 5	M2024-2017-1	P2024-1554-1	M2024-2070-2*		
F	IS + Cal. 6	M2024-2070-2*	P2024-1601-1			
G	IS + Cal. 7	M2024-2117-2	P2024-1737-2			
H	QC1	P2024-1171-3	P2024-1748-1			

*Moved during the SLE portion of the extraction due to clotting

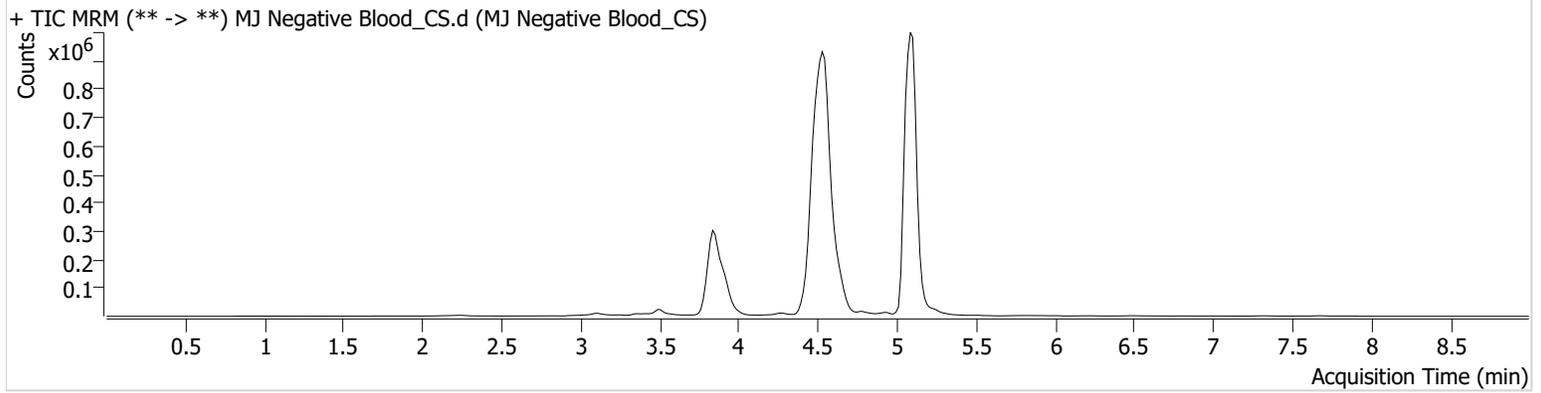


AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument	Falco (069901)	Data File	MJ Negative Blood_CS.d
Type	Sample	Sample	MJ Negative Blood_CS
Acq. Method	AM 27 Agilent Method.m	Operator	Celena Shrum
Sample Position	P1-B2	Comment	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.
Injection Volume	10		
Acq. Date-Time	6/15/2024 9:05:04 AM		
Sample Info.			

Sample Chromatogram





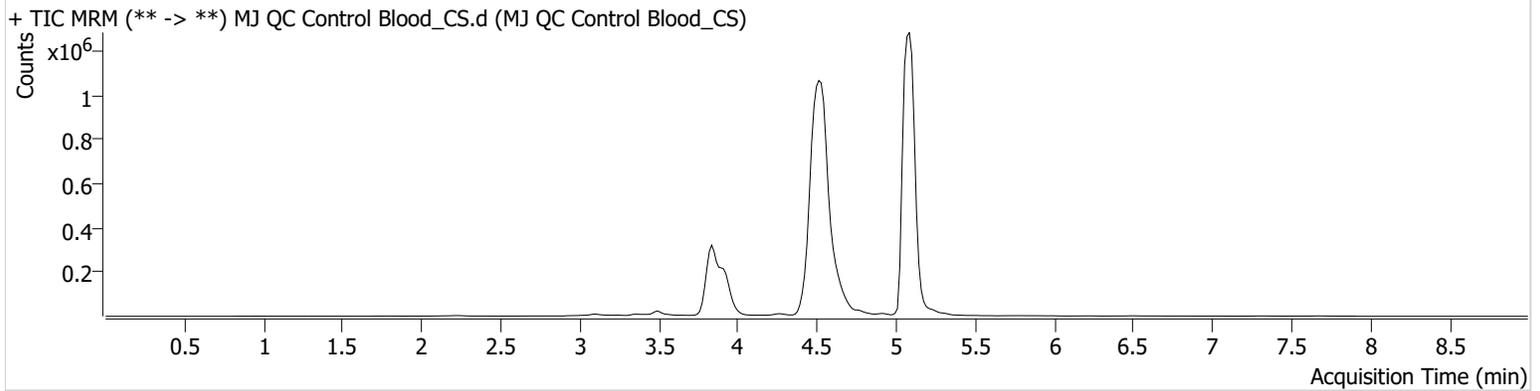
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** MJ QC Control Blood_CS.d
Type QC **Sample** MJ QC Control Blood_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-H1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 8:38:49 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	288617	∞	25.1	251.35	6016669	4.9553 ng/ml
THC-COOH	3.924	46646	96.43	217.0	1347.14	515496	14.4192 ng/ml
THC-OH	3.835	112365	∞	13.6	∞	1368794	4.9340 ng/ml



AM #27 Cannabinoids Quant. Results

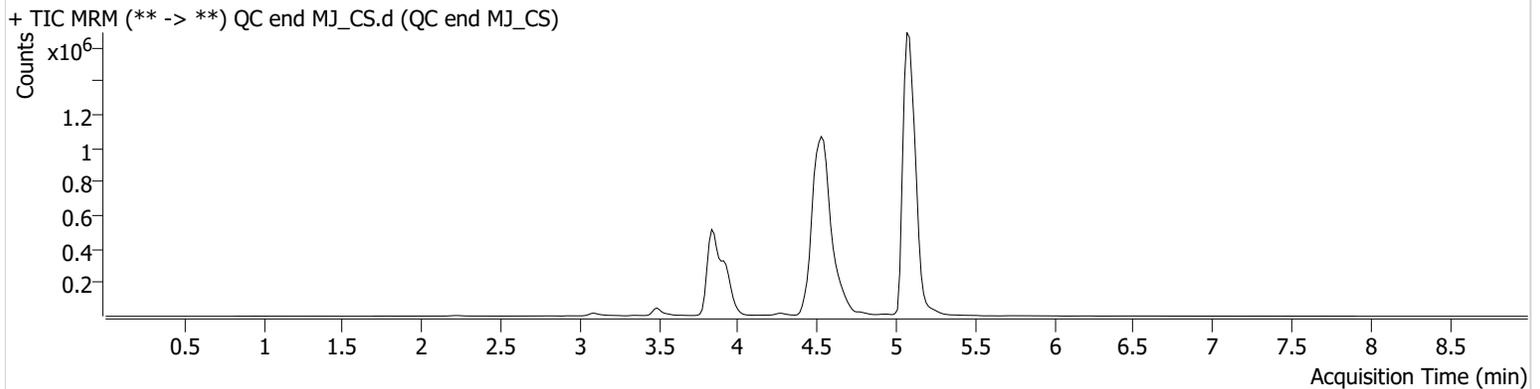
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Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 27 Agilent Method.m
Sample Position P1-H1
Injection Volume 10
Acq. Date-Time 6/15/2024 7:10:24 PM
Sample Info.

Data File QC end MJ_CS.d
Sample QC end MJ_CS
Operator Celena Shrum
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	375760	∞	25.0	∞	8318071	4.6771 ng/ml
THC-COOH	3.939	72331	577.75	211.8	858.73	768285	14.9743 ng/ml
THC-OH	3.850	180951	2144.72	12.8	532.55	2150803	5.0557 ng/ml



AM #27 Cannabinoids Quant. Results

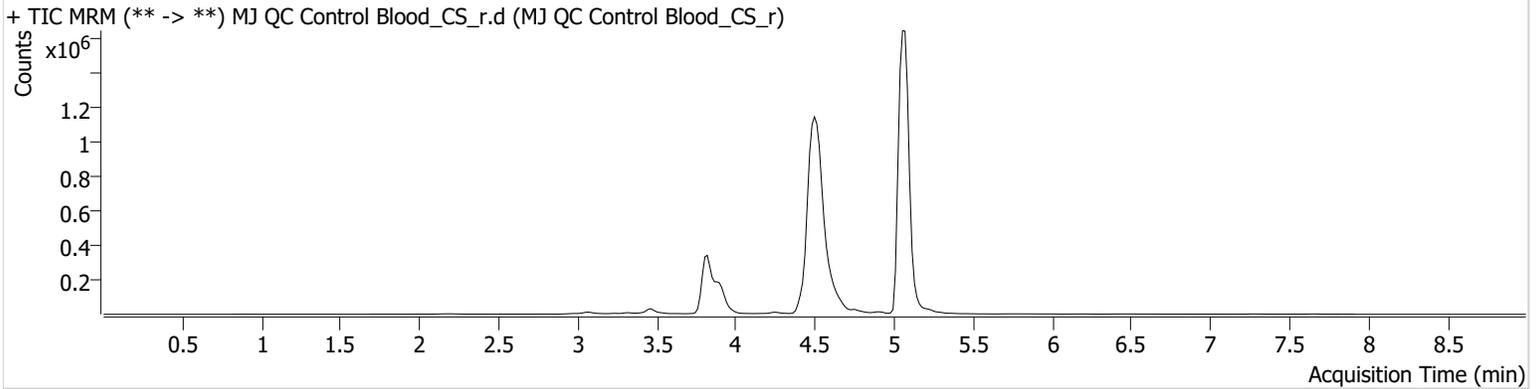
Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** MJ QC Control Blood_CS_r.d
Type QC **Sample** MJ QC Control Blood_CS_r
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-A2 **Comment**
Injection Volume 10
Acq. Date-Time 6/17/2024 2:02:43 PM
Sample Info.

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.

Starting bracket for reinjected sample

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	324817	∞	25.4	∞	6892660	4.8712 ng/ml
THC-COOH	3.909	33121	364.91	254.9	1934.06	427828	12.4370 ng/ml
THC-OH	3.820	104542	∞	13.2	∞	1383023	4.5462 ng/ml



AM #27 Cannabinoids Quant. Results

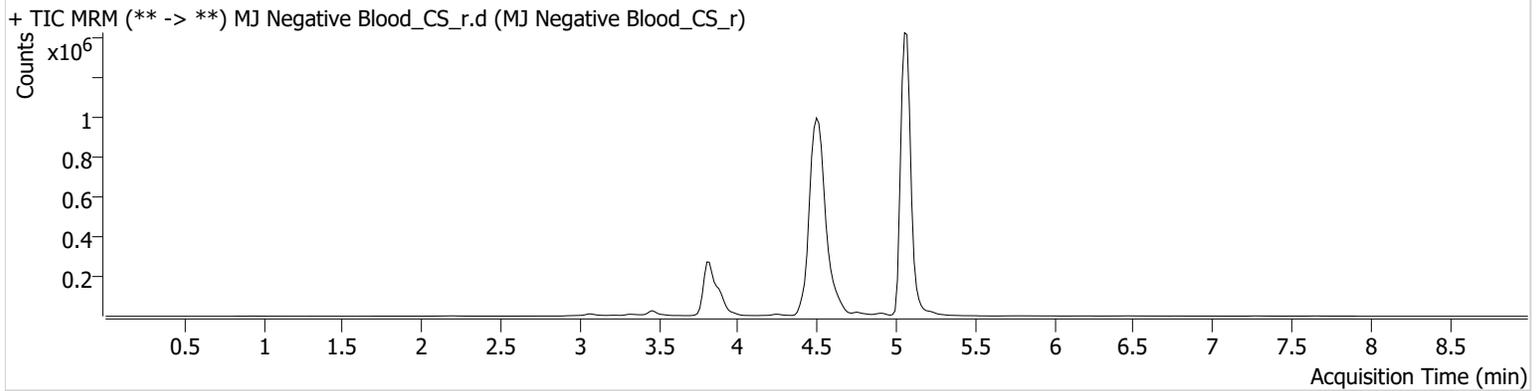
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Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** MJ Negative Blood_CS_r.d
Type Sample **Sample** MJ Negative Blood_CS_r
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-B2 **Comment**
Injection Volume 10
Acq. Date-Time 6/17/2024 2:29:15 PM
Sample Info.

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.

Negative control for reinjected sample

Sample Chromatogram





AM #27 Cannabinoids Quant. Results

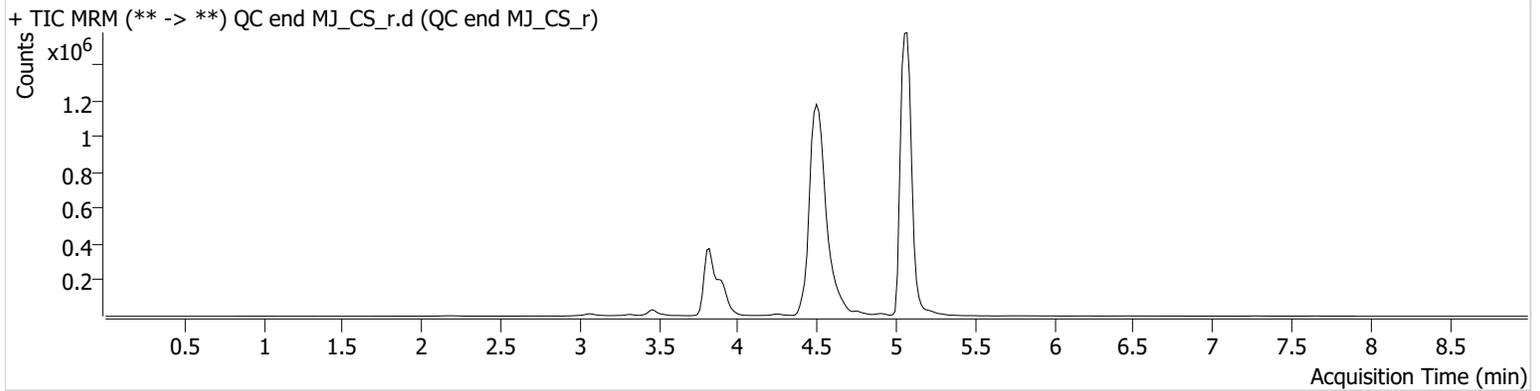
Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** QC end MJ_CS_r.d
Type QC **Sample** QC end MJ_CS_r
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-A2 **Comment**
Injection Volume 10
Acq. Date-Time 6/17/2024 3:21:41 PM
Sample Info.

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.

End bracket for reinjected sample

Sample Chromatogram



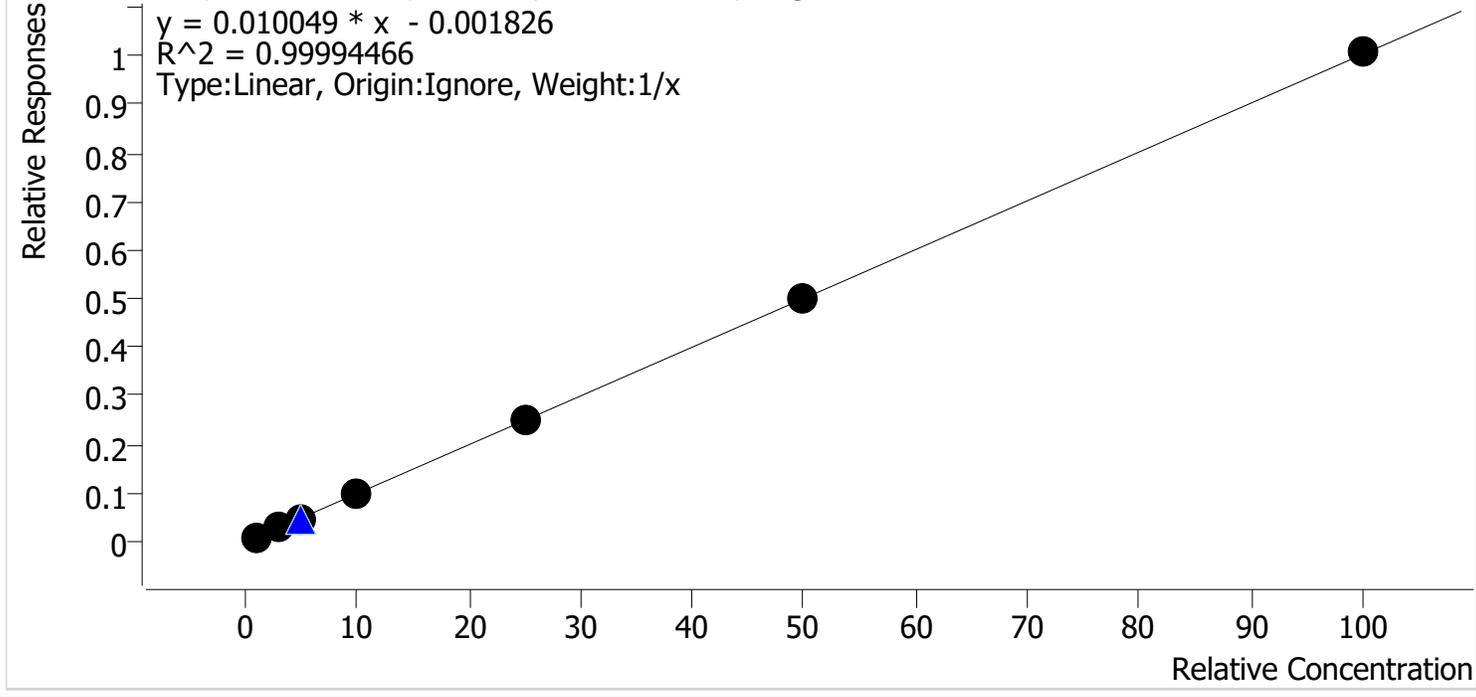
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	323324	1716.34	26.0	∞	6817568	4.9011 ng/ml
THC-COOH	3.909	37117	1749.99	248.4	∞	465674	12.7839 ng/ml
THC-OH	3.820	112716	∞	13.6	217.25	1526021	4.4432 ng/ml



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Last Cal. Update 6/20/2024 7:53 AM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 4 QCs

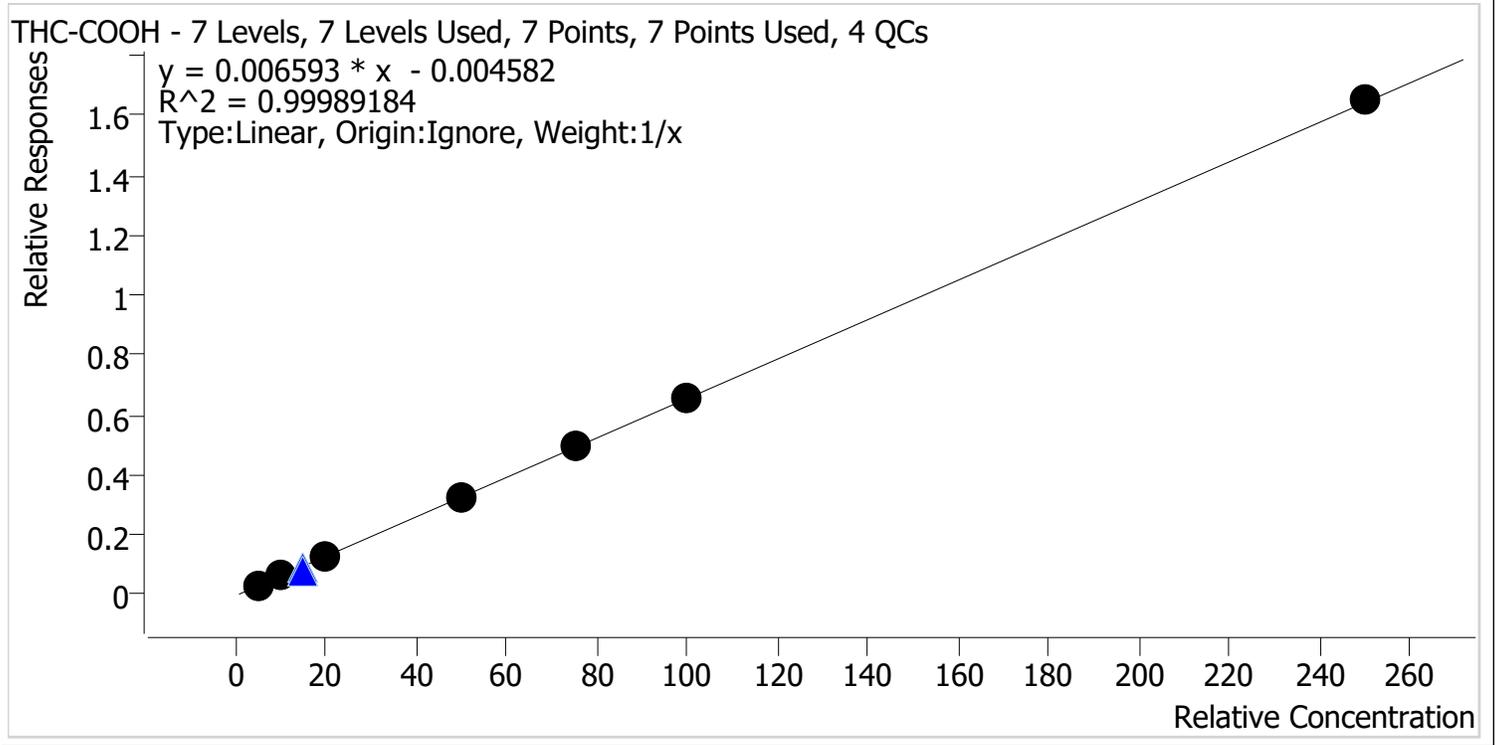


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_CS	1	✓	1.0	1.0	104.6
Cal 2 MJ_CS	2	✓	3.0	3.0	98.5
Cal 3 MJ_CS	3	✓	5.0	4.9	98.3
Cal 4 MJ_CS	4	✓	10.0	9.9	99.2
Cal 5 MJ_CS	5	✓	25.0	24.8	99.0
Cal 6 MJ_CS	6	✓	50.0	50.0	99.9
Cal 7 MJ_CS	7	✓	100.0	100.4	100.4



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Last Cal. Update 6/20/2024 7:53 AM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



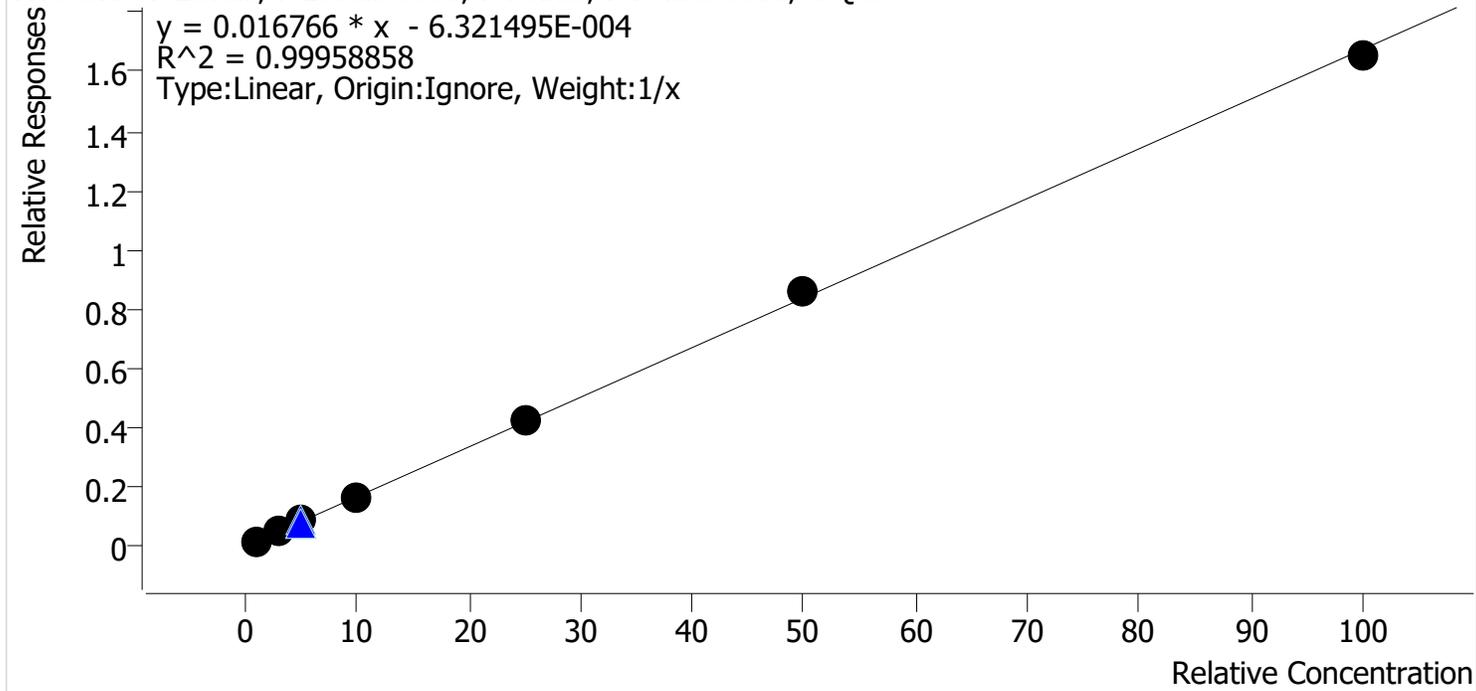
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_CS	1	✓	5.0	5.2	104.6
Cal 2 MJ_CS	2	✓	10.0	9.9	99.0
Cal 3 MJ_CS	3	✓	20.0	19.5	97.4
Cal 4 MJ_CS	4	✓	50.0	49.4	98.8
Cal 5 MJ_CS	5	✓	75.0	75.2	100.2
Cal 6 MJ_CS	6	✓	100.0	99.6	99.6
Cal 7 MJ_CS	7	✓	250.0	251.3	100.5



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Last Cal. Update 6/20/2024 7:53 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, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_CS	1	✓	1.0	1.0	102.1
Cal 2 MJ_CS	2	✓	3.0	2.9	98.0
Cal 3 MJ_CS	3	✓	5.0	5.0	99.7
Cal 4 MJ_CS	4	✓	10.0	9.8	97.8
Cal 5 MJ_CS	5	✓	25.0	25.2	100.9
Cal 6 MJ_CS	6	✓	50.0	51.4	102.8
Cal 7 MJ_CS	7	✓	100.0	98.6	98.6



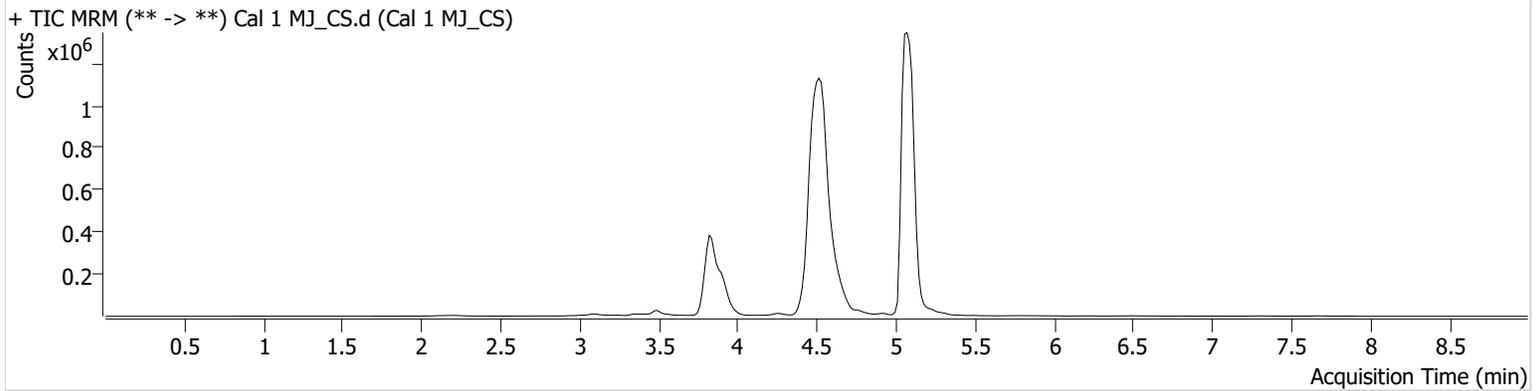
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 1 MJ_CS.d
Type Cal **Sample** Cal 1 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-A1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 6:53:38 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	59507	∞	27.2	∞	6853760	1.0457 ng/ml
THC-COOH	3.924	16992	295.46	215.2	∞	568461	5.2285 ng/ml
THC-OH	3.835	29277	∞	12.2	125.65	1775408	1.0213 ng/ml



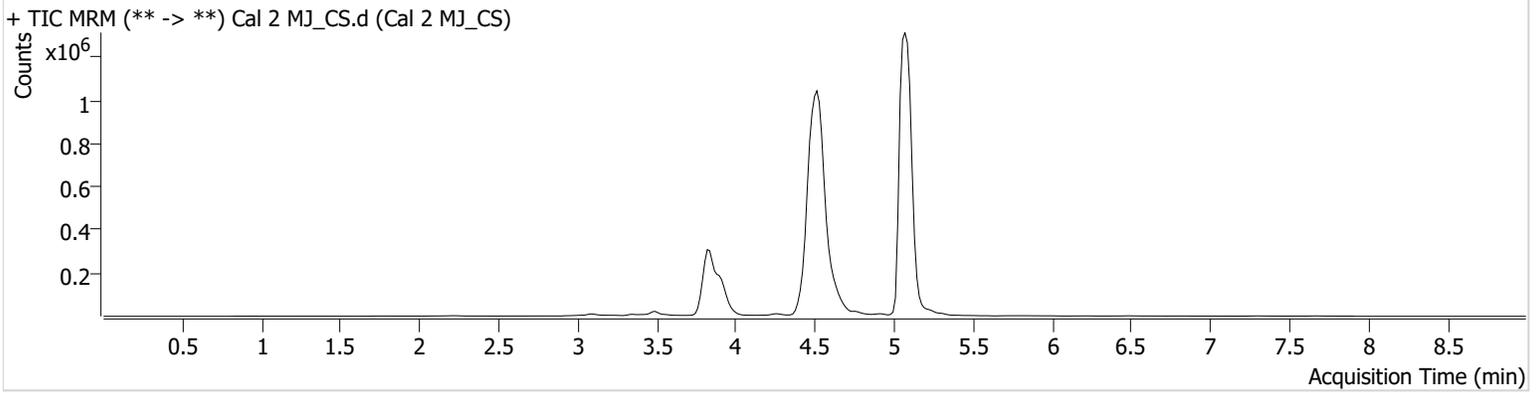
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 2 MJ_CS.d
Type Cal **Sample** Cal 2 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-B1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 7:07:01 AM
Sample Info.

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	177489	∞	24.8	∞	6367822	2.9554 ng/ml
THC-COOH	3.924	28464	832.92	224.8	∞	469025	9.8994 ng/ml
THC-OH	3.835	68225	∞	13.7	99.26	1401365	2.9415 ng/ml



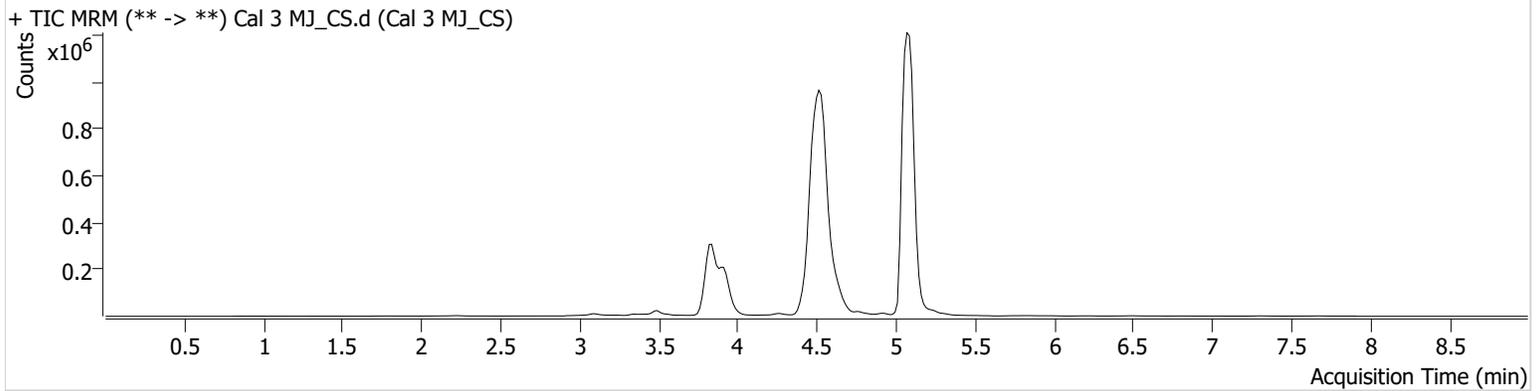
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 3 MJ_CS.d
Type Cal **Sample** Cal 3 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-C1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 7:20:08 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	266646	∞	25.8	∞	5606358	4.9147 ng/ml
THC-COOH	3.924	55483	∞	213.2	404.20	448183	19.4711 ng/ml
THC-OH	3.835	112322	∞	13.3	∞	1354371	4.9842 ng/ml



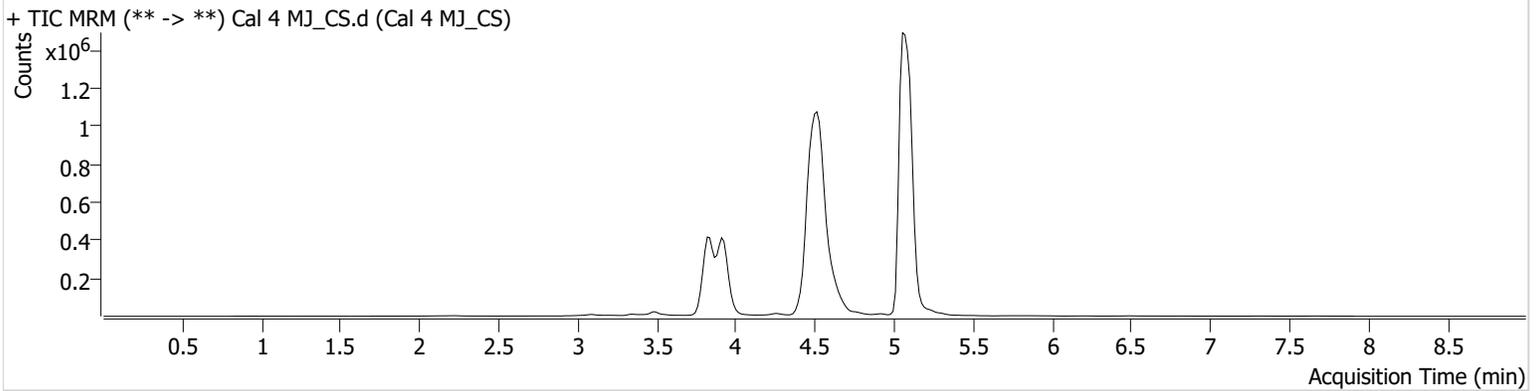
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 4 MJ_CS.d
Type Cal **Sample** Cal 4 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-D1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 7:33:14 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	683988	∞	25.0	∞	6987216	9.9232 ng/ml
THC-COOH	3.924	179074	∞	209.6	∞	557753	49.3913 ng/ml
THC-OH	3.835	279164	∞	13.7	776.07	1709834	9.7759 ng/ml



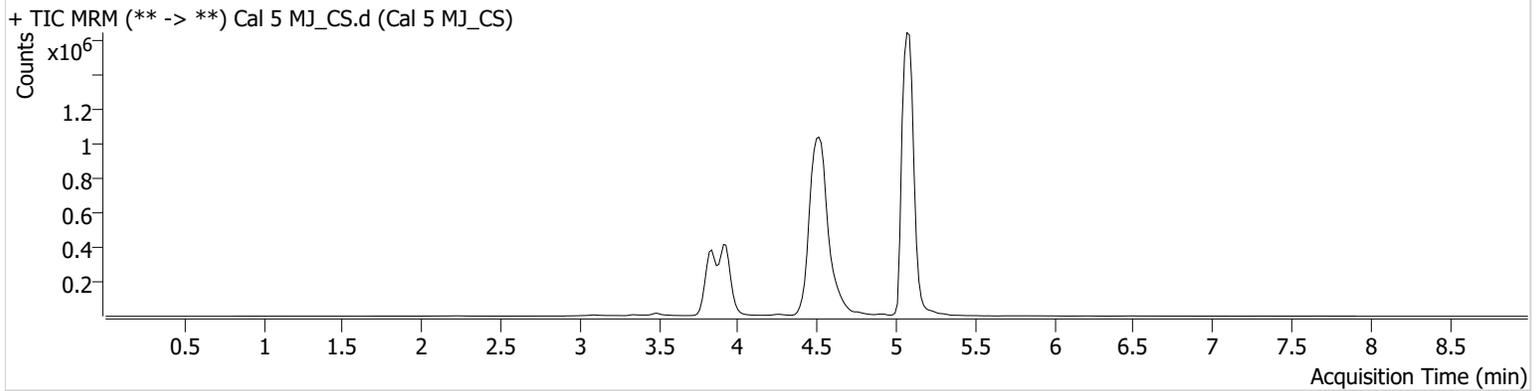
AM #27 Cannabinoids Quant. Results

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Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 5 MJ_CS.d
Type Cal **Sample** Cal 5 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-E1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 7:46:21 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	1498733	13789.48	26.2	∞	6068796	24.7572 ng/ml
THC-COOH	3.924	202900	∞	214.6	∞	413190	75.1745 ng/ml
THC-OH	3.835	530663	∞	13.8	854.33	1256523	25.2273 ng/ml



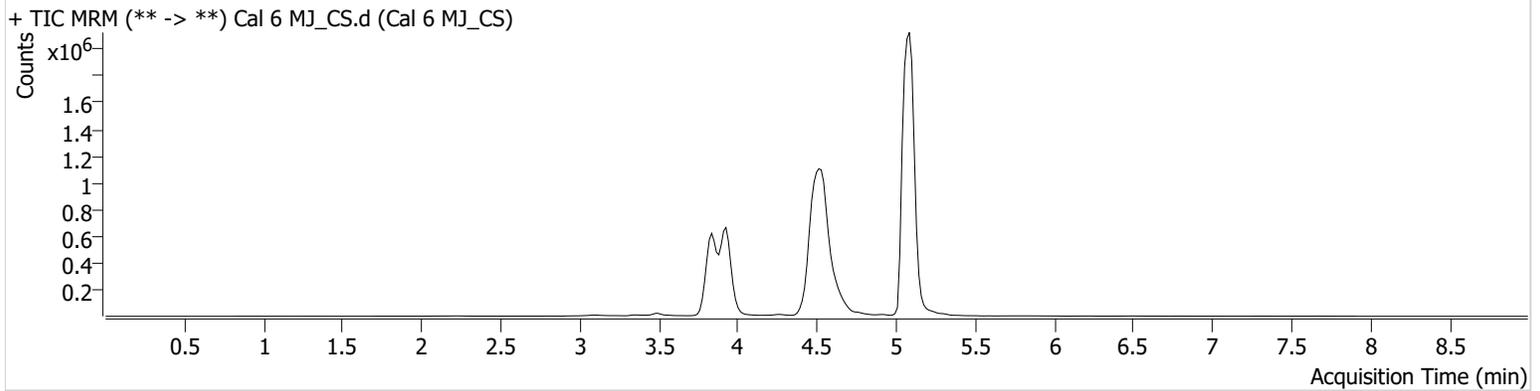
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 6 MJ_CS.d
Type Cal **Sample** Cal 6 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-F1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 7:59:27 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	3240972	31635.46	27.1	∞	6478964	49.9613 ng/ml
THC-COOH	3.924	331107	∞	217.5	∞	507998	99.5529 ng/ml
THC-OH	3.835	1332861	∞	13.7	2470.83	1547127	51.4221 ng/ml



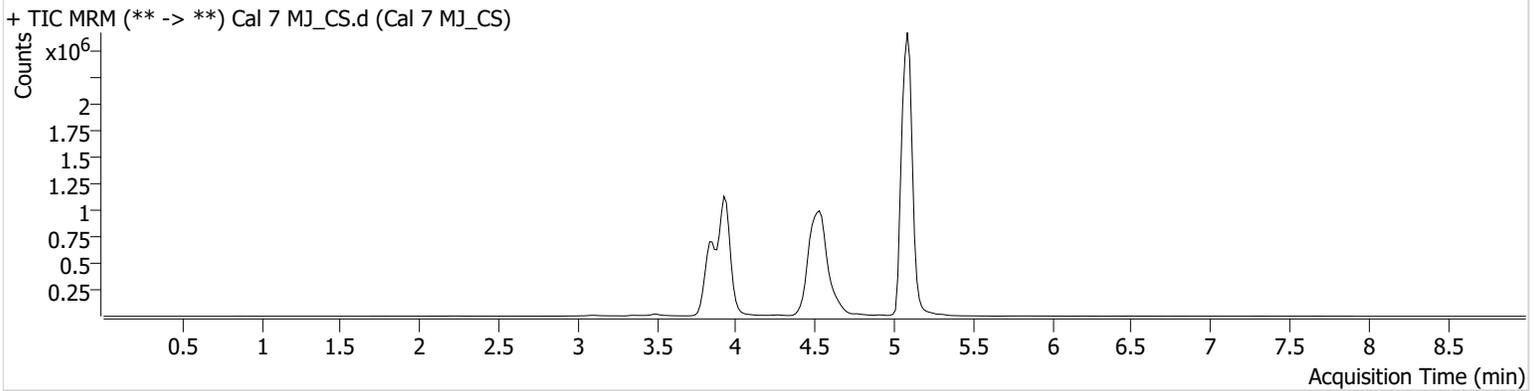
AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\061424 AM 27 28 TS CS\QuantResults\AM 27 CS.batch.bin
Calibration Last Update 6/20/2024 7:53:11 AM

Instrument Falco (069901) **Data File** Cal 7 MJ_CS.d
Type Cal **Sample** Cal 7 MJ_CS
Acq. Method AM 27 Agilent Method.m **Operator** Celena Shrum
Sample Position P1-G1 **Comment**
Injection Volume 10
Acq. Date-Time 6/15/2024 8:12:33 AM
Sample Info.

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.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	5409892	35481.62	26.5	∞	5369557	100.4426 ng/ml
THC-COOH	3.924	671505	∞	207.9	∞	406439	251.2823 ng/ml
THC-OH	3.850	2094839	∞	13.7	∞	1267329	98.6278 ng/ml