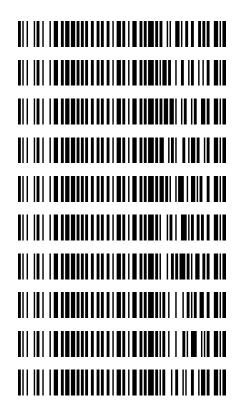


### Worklist: 6830

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
P2024-1316	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2024-1368	3	вск	AM 27 Blood THC Quant by LC-QQQ
P2024-1404	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1430	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1452	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1502	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1513	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1525	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-1527	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2024-1531	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: 06/03/2024 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 24C52816 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.

### **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.
- Add 500μL of 0.1% formic acid in water to blood samples, and 500μL of saturated phosphate buffer to urine samples-in the wells of the analytical plate.
- ☑ 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).
- □ 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- ☑ 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 r<sup>2</sup> 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:**

	1	2	3	4	5	6
А	IS + Cal. 1	IS + QC_1		P2024-1430-1	P2024-1502-1	IS + QC_1
В	IS + Cal. 2			P2024-1404-1		IS + Cal. 7
С	IS + Cal. 3			P2024-1368-3		IS + Cal. 6
D	IS + Cal. 4			P2024-1316-1		IS + Cal. 5
E	IS + Cal. 5			P2024-1531-1		IS + Cal. 4
F	IS + Cal. 6			P2024-1527-1		IS + Cal. 3
G	IS + Cal. 7			P2024-1525-1	Neg Blood	IS + Cal. 2
Н	IS + QC_1		P2024-1452-1	P2024-1513-1	IS + QC_1	IS + Cal. 1

All wells to contain 100  $\mu l$  of residual DMSO

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

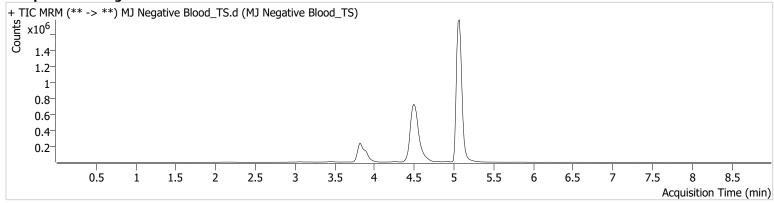
AM 27 Agilent Method.m

P5-G5 **Injection Volume** 10 6/4/2024 3:35:15 AM

Acq. Date-Time Sample Info.

**Data File Sample** Operator Comment MJ Negative Blood\_TS.d MJ Negative Blood\_TS 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.



D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

QC

AM 27 Agilent Method.m

6/4/2024 3:09:02 AM

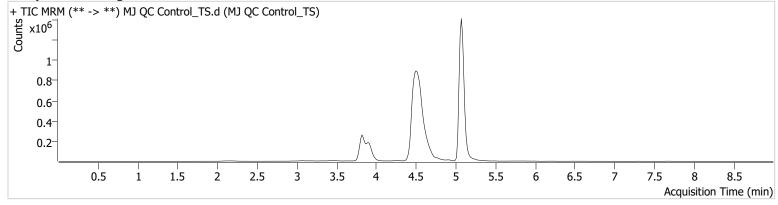
**Sample Position Injection Volume**  10

Acq. Date-Time Sample Info.

P5-A6

**Data File Sample** Operator Comment MJ QC Control\_TS.d MJ QC Control TS 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	5.075	253311	∞	25.0	∞	5463455	5.0593 ng/ml
THC-COOH	3.924	51881	251.74	228.0	77 <del>4</del> .28	446801	15.0267 ng/ml
THC-OH	3.835	98744	∞	14.1	∞	1117537	4.7614 ng/ml

Instrument Type Falco (069901)

QC

Acq. Method

AM 27 Agilent Method.m

Sample Position Injection Volume

P5-H5

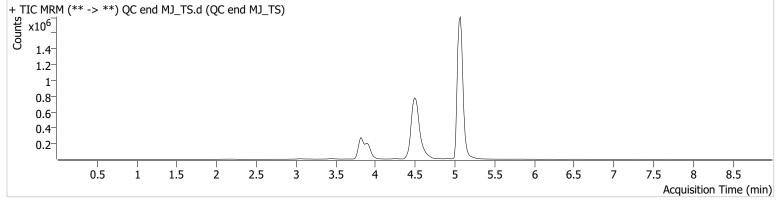
Acq. Date-Time Sample Info.

10

6/4/2024 8:23:59 AM

Data File Sample Operator Comment QC end MJ\_TS.d QC end MJ\_TS 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	5.075	357677	$\infty$	24.5	$\infty$	7930565	4.9298 ng/ml
THC-COOH	3.924	57523	1306.61	234.8	∞	495089	15.0355 ng/ml
THC-OH	3.820	107103	∞	13.8	161.74	1153773	4.9939 ng/ml



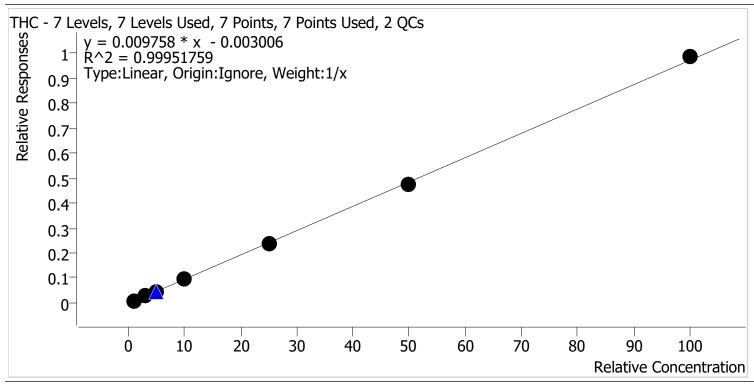


AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin

Last Cal. Update 6/4/2024 10:13 AM Analyst Name ISP\Datastor

Analyte THC Internal Standard THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_TS	1	<b>~</b>	1.0	1.1	111.6
Cal 2 MJ_TS	2	~	3.0	3.0	98.5
Cal 3 MJ_TS	3	~	5.0	4.6	92.8
Cal 4 MJ_TS	4	~	10.0	9.8	97.6
Cal 5 MJ_TS	5	~	25.0	24.9	99.8
Cal 6 MJ_TS	6	~	50.0	49.2	98.3
Cal 7 MJ TS	7	V	100.0	101.4	101.4



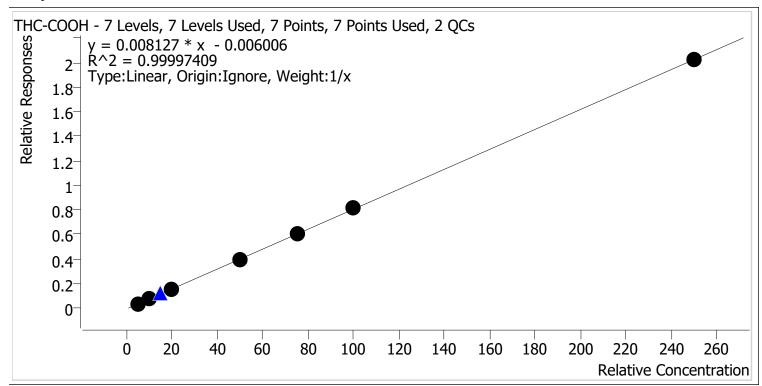


### AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin

Last Cal. Update 6/4/2024 10:13 AM Analyst Name ISP\Datastor

Analyte THC-COOH Internal Standard THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_TS	1	V	5.0	5.1	101.3
Cal 2 MJ_TS	2	~	10.0	9.9	98.7
Cal 3 MJ_TS	3	~	20.0	20.0	99.8
Cal 4 MJ_TS	4	~	50.0	50.1	100.1
Cal 5 MJ_TS	5	~	75.0	74.6	99.4
Cal 6 MJ_TS	6	V	100.0	100.7	100.7
Cal 7 MJ_TS	7	V	250.0	249.7	99.9





### AM #27 Cannabinoids Quant. Calibration Curve Report

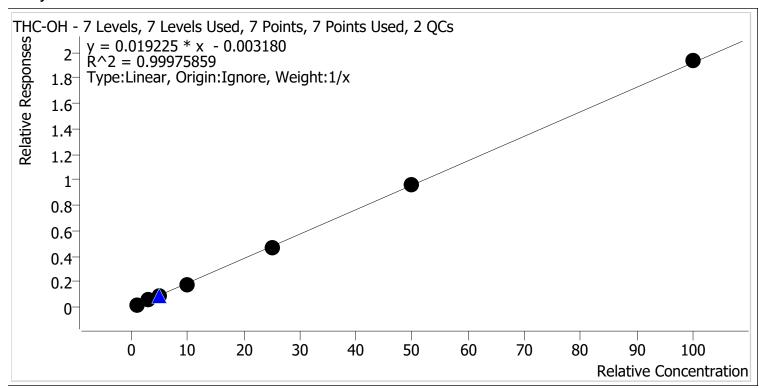
Batch results D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin

**Last Cal. Update** 6/4/2024 10:13 AM

ISP\Datastor

**Analyst Name** 

Analyte THC-OH Internal Standard THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ_TS	1	V	1.0	1.1	109.9
Cal 2 MJ_TS	2	V	3.0	2.9	97.5
Cal 3 MJ_TS	3	V	5.0	4.8	96.6
Cal 4 MJ_TS	4	V	10.0	9.6	96.4
Cal 5 MJ_TS	5	~	25.0	24.7	98.9
Cal 6 MJ_TS	6	V	50.0	50.0	100.0
Cal 7 MJ TS	7	~	100.0	100.8	100.8

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

**Sample Position Injection Volume**  AM 27 Agilent Method.m P5-H6

Acq. Date-Time

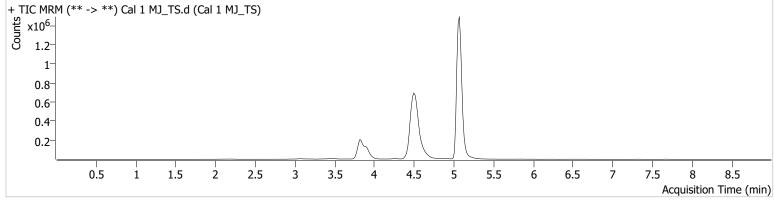
10 6/4/2024 1:24:00 AM

Sample Info.

**Data File Sample** Operator Comment

Cal 1 MJ\_TS.d Cal 1 MJ\_TS 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	5.075	49228	550.15	27.4	542.68	6245865	1.1157 ng/ml
THC-COOH	3.924	13874	195.75	239.6	167.15	39 <del>4</del> 853	5.0627 ng/ml
THC-OH	3.835	16902	92.91	13.6	28.87	941990	1.0987 ng/ml

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

Cal

AM 27 Agilent Method.m

**Sample Position Injection Volume** Acq. Date-Time

P5-G6

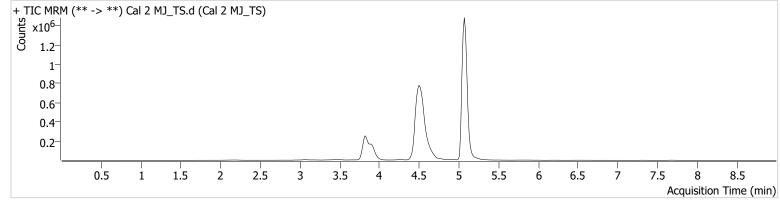
10 6/4/2024 1:37:17 AM

Sample Info.

**Data File** Sample Operator Comment

Cal 2 MJ\_TS.d Cal 2 MJ\_TS 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	5.075	158953	$\infty$	25.3	∞	6157192	2.9535 ng/ml
THC-COOH	3.924	33004	908.37	233.7	∞	444599	9.8731 ng/ml
THC-OH	3.835	59382	∞	13.3	259.01	1119238	2.9251 ng/ml

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

Cal

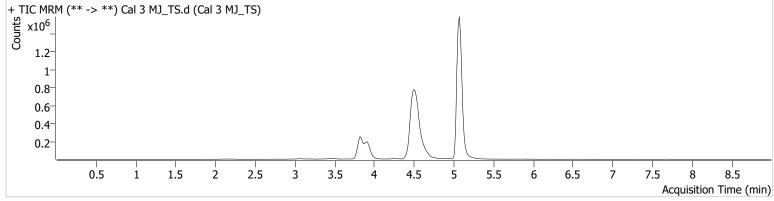
AM 27 Agilent Method.m

**Sample Position Injection Volume**  P5-F6

Acq. Date-Time Sample Info.

10 6/4/2024 1:50:23 AM **Data File** Sample Operator Comment Cal 3 MJ\_TS.d Cal 3 MJ\_TS 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	5.075	271188	$\infty$	25.5	œ	6414119	4.6407 ng/ml
THC-COOH	3.924	66240	240.65	213.5	∞	423858	19.9686 ng/ml
THC-OH	3.835	94116	$\infty$	13.6	<del>4</del> 57.90	1049959	4.8280 ng/ml

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

Cal

AM 27 Agilent Method.m

**Sample Position Injection Volume** Acq. Date-Time

P5-E6

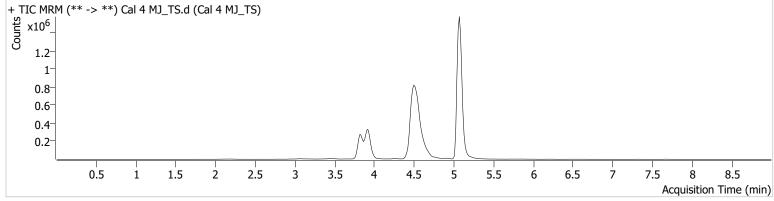
10

6/4/2024 2:03:29 AM

Sample Info.

**Data File** Cal 4 MJ\_TS.d Sample Cal 4 MJ TS Operator Tamara Salazar Comment

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	541798	∞	24.2	$\infty$	5871708	9.7637 ng/ml
THC-COOH	3.924	169854	3 <del>4</del> 20.07	176.5	5038.00	423695	50.0667 ng/ml
THC-OH	3.835	191007	$\infty$	13.4	295.39	1048562	9.6407 ng/ml

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

Cal

**Sample Position Injection Volume**  P5-D6 10

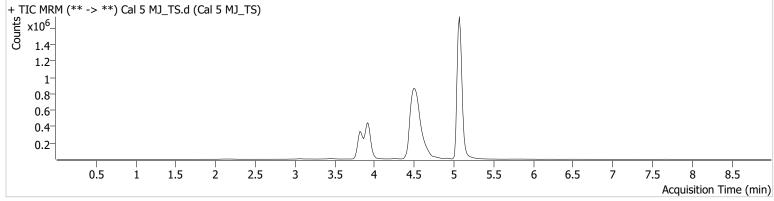
6/4/2024 2:16:36 AM

Acq. Date-Time Sample Info.

AM 27 Agilent Method.m

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

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.075	1328687	6800.82	24.7	∞	5526694	24.9444 ng/ml
THC-COOH	3.924	255934	8216.49	188.4	∞	426478	74.5802 ng/ml
THC-OH	3.835	498690	$\infty$	13.8	∞	1056674	24.7139 ng/ml

D:\MassHunter\Data\2024\AM 25 26\060324 AM 25 26 CS\QuantResults\AM 27.batch.bin **Batch results** Calibration Last Update 6/4/2024 10:13:56 AM

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

Cal

AM 27 Agilent Method.m

**Sample Position Injection Volume** Acq. Date-Time

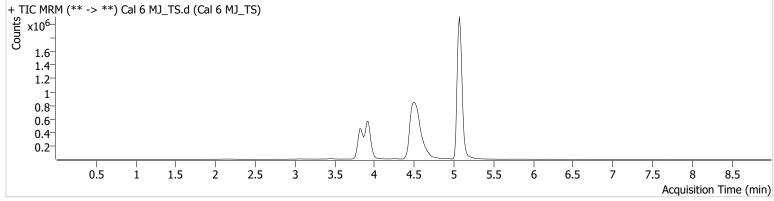
Sample Info.

P5-C6 10

6/4/2024 2:29:43 AM

**Data File** Sample Operator Comment Cal 6 MJ\_TS.d Cal 6 MJ\_TS 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	5.075	2619337	∞	26.0	∞	5494116	49.1635 ng/ml
THC-COOH	3.924	3 <del>4</del> 1091	∞	189.6	∞	419868	100.6991 ng/ml
THC-OH	3.835	1009373	5254.99	13.9	2797.39	1053396	50.0075 ng/ml

Instrument Type Acq. Method Falco (069901) Cal

AM 27 Agilent Method.m

Sample Position Injection Volume

P5-B6 10

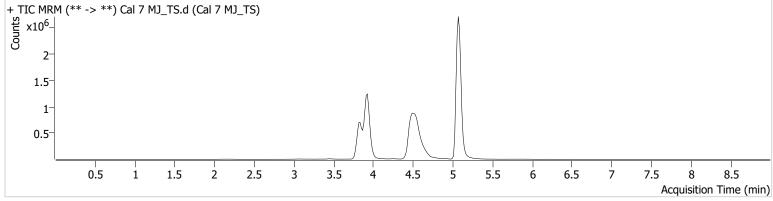
6/4/2024 2:42:49 AM

Acq. Date-Time Sample Info.

Data File Sample Operator Comment

Cal 7 MJ\_TS.d Cal 7 MJ\_TS 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	5.075	4936682	20852.91	25.6	œ	5003330	101.4183 ng/ml
THC-COOH	3.924	829111	4616.39	181.2	11374.78	409698	249.7497 ng/ml
THC-OH	3.835	2087040	∞	13.9	œ	1078895	100.7861 ng/ml