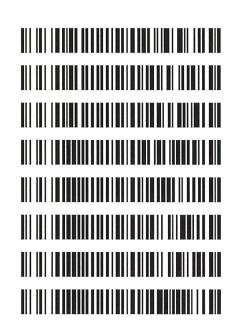




Worklist: 4790

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2020-5249	1	вск	AM 27 Blood THC Quant by LC-QQQ
M2021-0167	3	вск	AM 27 Blood THC Quant by LC-QQQ
M2021-0206	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-3699	4	вск	AM 27 Blood THC Quant by LC-QQQ
P2021-0154	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2021-0169	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2021-0170	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2021-0186	1	ВСК	AM 27 Blood THC Quant by LC-QQQ





Idaho State Police Forensic Services Toxicology Discipline

Request for Departure from an Analytical Method

Date of Request 02/24/2021

Forensic Scientist Anne Nord

Analytical Method

Toxicology AM #27: Quantitative Analysis of THC and Metabolites in Blood and Urine by LCMS-QQQ

Request

The method currently reads:

4.3.2.5 If any points are dropped from the approved quantitative range of the curve, the compound will be reported qualitatively. For calibrators and controls 10 ng and below, the accuracy must be within 30%, for calibrators and controls greater than 10 ng/mL the accuracy must be within 20%. If a control falls outside the accuracy range, at the analyst's discretion, the compound may be reported qualitatively.

I would like to add in the following exception:

If the 1 ng/ml point is dropped for THC. If the 1 ng/ml point is dropped the quantitative range will be 3-50 ng/ml.

Discipline Leader Review

Departure approved Comments: This deviation is approved and will remain in effect until it is changed in the actua method.
Departure Not Approved Comments:

Celena Shrum

Toxicology Discipline Lead

Celera Shrum

Date: 02/24/2021



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

Extraction Date: 02/19/2021 Analyst: Sophia Jackson Plate lot#: IDP-108-2-201206 Plate Expiration: 06/06/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: Lampire 20L20724 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.
- 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: 16
- ☑ 3. 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.
- ✓ 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)
- \boxtimes 8. Wait 5 minutes.
- □ 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 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

- \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 1ng/mL (quantitative), OH-THC 3ng/mL (quantitative), and 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.
- □ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- ☑ 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

QC-High was run prior to case samples and QC-Low was run after case samples.

27

The needle seat became clogged during the run following M2021-0167-3 and was changed. QC-High was reinjected following this change and there was a retention time shift. Calibrators, negative blood, QC-High, sample M2020-5249-1, and sample M2021-0167-3 were reinjected. Calibrator 7 was also reinjected prior to the needle seat becoming clogged (poor ISTD response on first injection).

QC-Low did not inject properly (poor ISTD response) and was immediately reinjected.

Curves limited: THC 3-100. THC calibrator 1 dropped due to ratio. A deviation was requested for the THC quantitative range to be 3-50 ng/mL in instances such as this.

	1	2	3	4	5	6
Α					Negative control	IS + QC-Low
В					M2020-5249-1	IS + Cal. 7
С					M2021-0167-3 *	IS + Cal. 6 IS + QC-High***
D					M2021-0206-1	IS + Cal. 5
E					P2020-3699-4	IS + Cal. 4
F				M2021-0167-3	P2021-0154-1 **	IS + Cal. 3
G				P2021-0154-1	P2021-0169-1	IS + Cal. 2
Н				P2021-0186-1	P2021-0170-1	IS + Cal. 1

All wells to contain 100 μl of residual DMSO

 $[\]ensuremath{^{*}}$ M2021-0167-3 moved during analytical step 6 due to blood clot

^{**} P2021-0154-1 moved during analytical step 6 due to contamination (blood spot) on SLE plate

^{***} Contents of well C6 injected first as Calibrator 6 and then reinjected as QC-High





D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin **Batch results**

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument Type Acq. Method Instrument 1 Sample

AM 27 THCQ.m P1-A5

Sample Position Injection Volume Acq. Date-Time

2/19/2021 12:36:32 PM

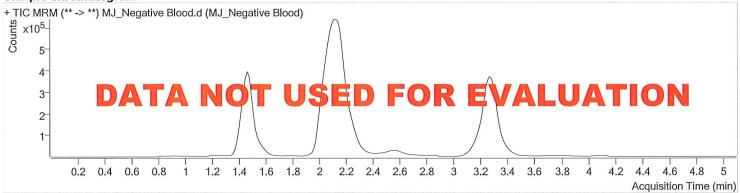
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Sample Info.

Data File Sample

Operator Comment MJ Negative Blood.d MJ Negative Blood Sophia Jackson

Sample Chromatogram





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Instrument 1

2/19/2021 4:29:54 PM

Sample

AM 27 THCQ.m

Acq. Method **Sample Position**

P1-A5 10

Injection Volume

Acq. Date-Time

Sample Info.

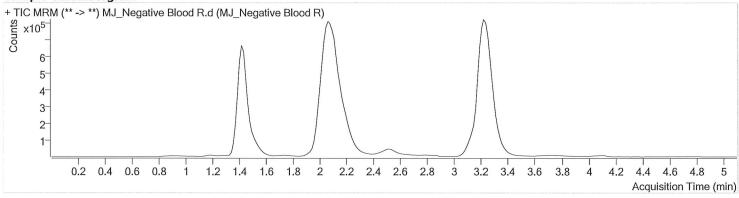
Data File

Sample Operator

Comment

MJ_Negative Blood R.d MJ_Negative Blood R

Sophia Jackson





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

MJ_QC-High.d

Sophia Jackson

MJ_QC-High

Data File

Operator

Comment

Sample

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Instrument 1

Cal

Acq. Method

Sample Position Injection Volume

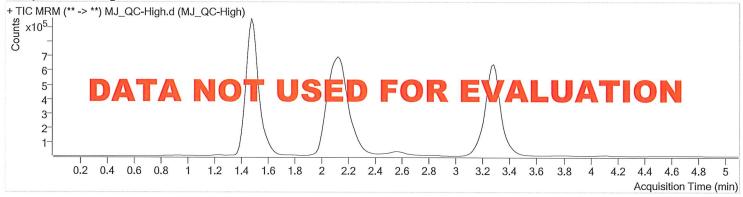
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Acq. Date-Time Sample Info.

AM 27 THCQ.m P1-C6

2/19/2021 12:13:39 PM

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.468	1260969	∞	11.8	∞	1938683	49.8790	ng/ml
THC-COOH	1.504	1365085	1297.36	58.6	2913.65	584377	100.3037	ng/ml
THC	3.285	1525619	4816.12	25.4	∞	3314092	49.4501	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Instrument 1 Cal

Acq. Method

AM 27 THCQ.m

Sample Position Injection Volume P1-C6 10

Acq. Date-Time

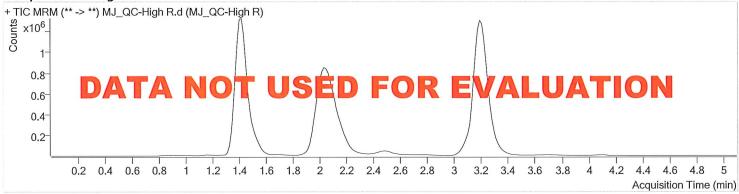
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Sample Info.

Data File Sample Operator

Comment

MJ_QC-High R.d MJ_QC-High R Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.408 Low *	1736343	∞	11.7	∞	2700553	49.3002	ng/ml
THC-COOH	1.429 Low *	1842590	∞	58.4	∞	774873	102.1209	ng/ml
THC	3.194	3083590	∞	25.4	699.07	6389465	51.8284	ng/ml

^{*}Retention time shifted after needle seat was changed. Run was reinjected





Batch results
Calibration Last Update

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

e 2/24/2021 11:53:55 AM

Instrument

Type

Instrument 1

Sample

AM 27 THCQ.m

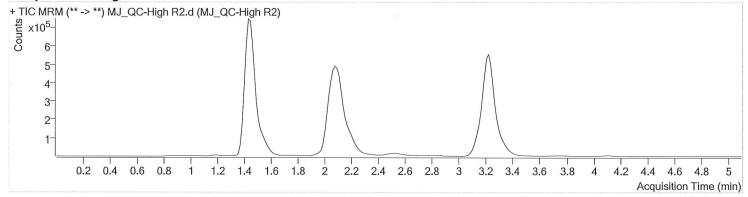
Acq. Method AM Sample Position P1-

10

Injection Volume Acq. Date-Time Sample Info. AM 27 THCC P1-C6

2/19/2021 4:45:06 PM

Data File Sample Operator Comment MJ_QC-High R2.d MJ_QC-High R2 Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.438	828608	∞	10.4	1236.42	1281241	49.9491	ng/ml
THC-COOH	1.459	944682	3846.63	57.6	4064.64	405773	98.0135	ng/ml
THC	3.224	1154387	9385.11	25.8	2647.17	2536282	46.4301	ng/ml



Data File

Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Acq. Method

Instrument 1

Sample

AM 27 THCQ.m

2/19/2021 7:01:52 PM

Sample Position P1-A6 10

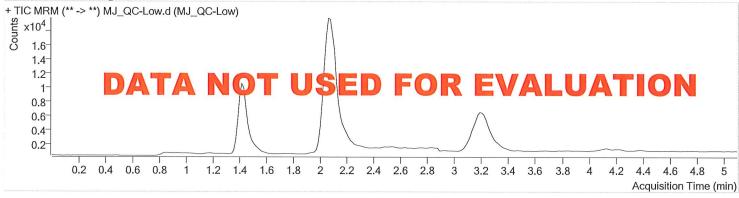
Injection Volume

Acq. Date-Time Sample Info.

Sample Operator Comment MJ_QC-Low.d MJ_QC-Low

Sophia Jackson

Sample Chromatogram



Sample reinjected due to poor ISTD response





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Instrument 1

Sample

AM 27 THCQ.m

Acq. Method **Sample Position**

P1-A6

Injection Volume Acq. Date-Time

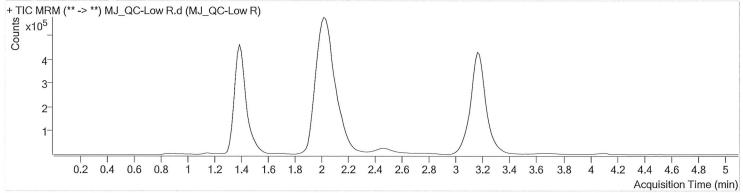
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2/19/2021 7:11:10 PM

Sample Info.

Data File Sample Operator Comment

MJ_QC-Low R.d MJ_QC-Low R Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.393	106226	∞	11.1	∞	1814995	4.0757	ng/ml
THC-COOH	1.414	186252	∞	55.9	941.71	561021	13.7234	ng/ml
THC	3.164	119915	690.58	31.0	70.17	3301367	3.9715	ng/ml



Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Last Cal. Update

2/24/2021 11:58 AM

Analyst Name

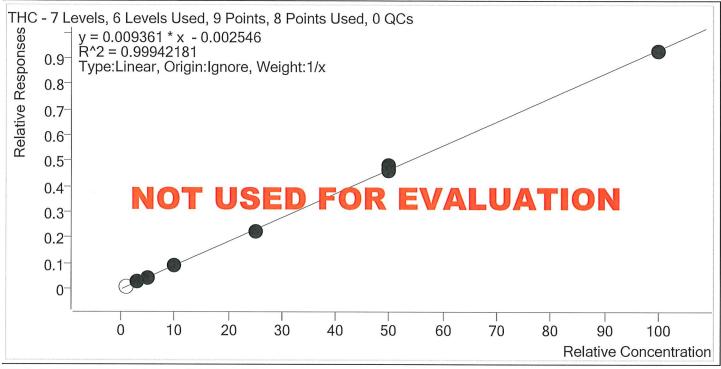
ISP\datastor

Analyte

THC

Internal Standard

THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1	1	×	1.0	1.2	121.1
MJ_Cal 2	2	✓	3.0	3.0	98.8
MJ_Cal 3	3	✓	5.0	5.1	102.9
MJ_Cal 4	4	✓	10.0	10.0	99.7
MJ_Cal 5	5	✓	25.0	24.0	96.2
MJ_Cal 6	6	✓	50.0	50.2	100.5
*MJ_QC-High	6	✓	50.0	49.5	98.9
*MJ_QC-High R	6	✓	50.0	51.8	103.7
MJ_Cal 7 R	7	✓	100.0	99.4	99.4

All samples reinjected due to retention time shift following needle seat change

*QC-High mistakenly included as a calibrator



Batch results D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Last Cal. Update

0/04/0004 44.50 AM

Analyst Name

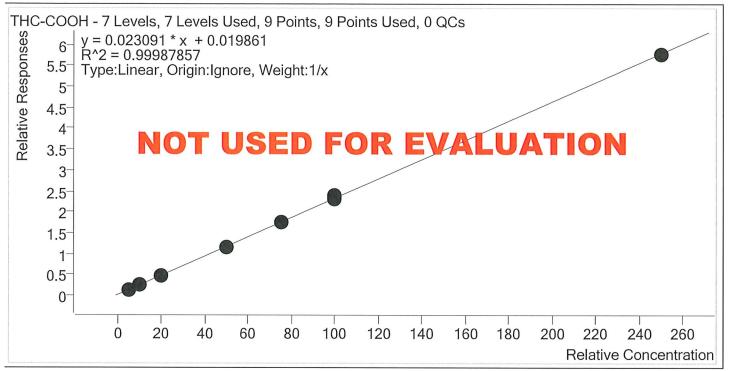
2/24/2021 11:58 AM

Analyte

ISP\datastor THC-COOH

Internal Standard

THC-COOH-D9



	T				700
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1	1	✓	5.0	5.1	101.2
MJ_Cal 2	2	✓	10.0	9.9	98.5
MJ_Cal 3	3	✓	20.0	20.0	99.8
MJ_Cal 4	4	✓	50.0	49.6	99.1
MJ_Cal 5	5	✓	75.0	75.0	100.0
MJ_Cal 6	6	✓	100.0	99.5	99.5
* MJ_QC-High	6	✓	100.0	100.3	100.3
*MJ_QC-High R	6	✓	100.0	102.1	102.1
MJ Cal 7 R	7	✓	250.0	248.6	99.5

All samples reinjected due to retention time shift following needle seat change

*QC-High mistakenly included as a calibrator



Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Last Cal. Update

2/24/2021 11:58 AM

Analyst Name

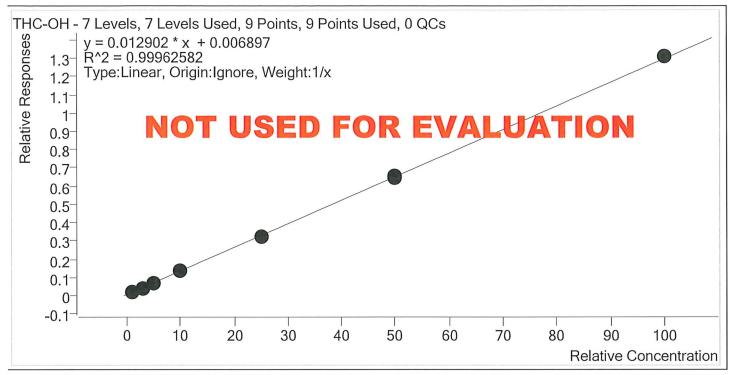
ISP\datastor

Analyte

THC-OH

Internal Standard

THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1	1	✓	1.0	1.1	112.3
MJ_Cal 2	2	✓	3.0	2.6	87.6
MJ_Cal 3	3	✓	5.0	5.1	101.5
MJ_Cal 4	4	✓	10.0	10.0	100.0
MJ_Cal 5	5	✓	25.0	24.6	98.4
MJ_Cal 6	6	✓	50.0	50.5	100.9
*MJ_QC-High	6	✓	50.0	49.9	99.8
*MJ_QC-High R	6	✓	50.0	49.3	98.6
MJ_Cal 7 R	7	✓	100.0	100.9	100.9

All samples reinjected due to retention time shift following needle seat change

*QC-High mistakenly included as a calibrator

Batch results D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Last Cal. Update

2/24/2021 11:53 AM

Analyst Name

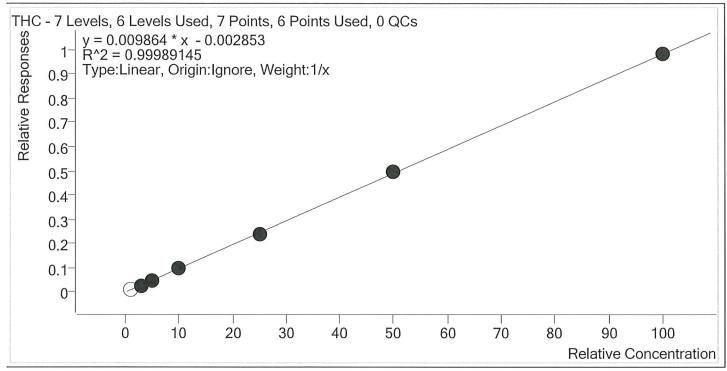
ISP\datastor

Analyte

THC

Internal Standard

THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1 R	1	×	1.0	1.3	126.0
MJ_Cal 2 R	2	✓	3.0	3.0	100.0
MJ_Cal 3 R	3	✓	5.0	5.1	102.1
MJ_Cal 4 R	4	✓	10.0	9.9	98.7
MJ_Cal 5 R	5	✓	25.0	24.6	98.3
MJ_Cal 6 R	6	✓	50.0	50.5	100.9
MJ Cal 7 R2	7	✓	100.0	100.0	100.0

Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Last Cal. Update

2/24/2021 11:53 AM

Analyst Name

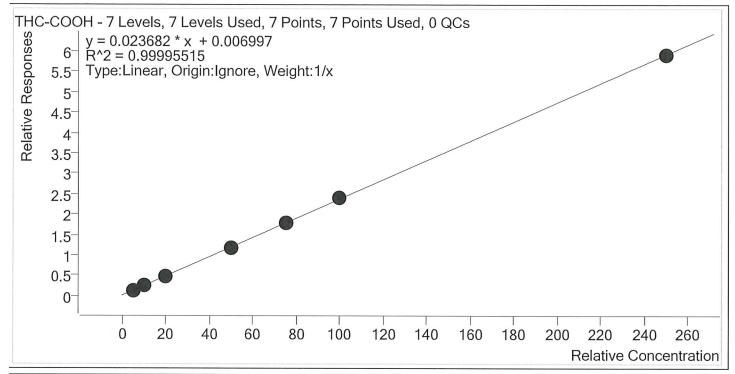
ISP\datastor

Analyte

THC-COOH

Internal Standard

THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1 R	1	✓	5.0	4.9	98.9
MJ_Cal 2 R	2	✓	10.0	9.9	99.2
MJ_Cal 3 R	3	✓	20.0	20.3	101.5
MJ_Cal 4 R	4	✓	50.0	50.1	100.1
MJ_Cal 5 R	5	✓	75.0	74.8	99.7
MJ_Cal 6 R	6	✓	100.0	100.9	100.9
MJ_Cal 7 R2	7	✓	250.0	249.1	99.6

Batch results D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Last Cal. Update

2/24/2021 11:53 AM

Analyst Name

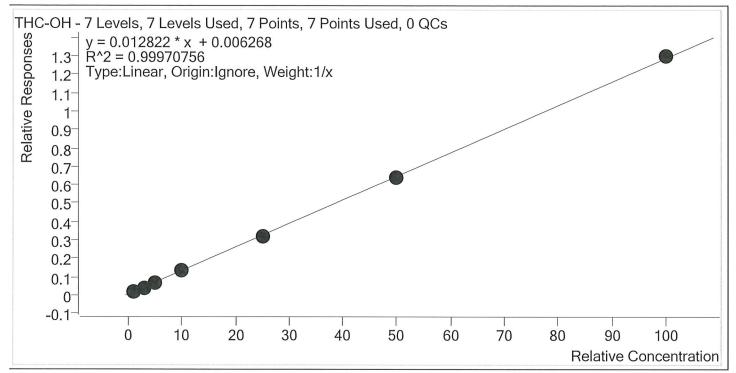
ISP\datastor

Analyte

THC-OH

Internal Standard

THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1 R	1	✓	1.0	1.1	111.1
MJ_Cal 2 R	2	✓	3.0	2.8	91.8
MJ_Cal 3 R	3	✓	5.0	4.9	98.5
MJ_Cal 4 R	4	✓	10.0	10.0	99.8
MJ_Cal 5 R	5	✓	25.0	24.6	98.4
MJ_Cal 6 R	6	✓	50.0	49.8	99.6
MJ_Cal 7 R2	7	✓	100.0	100.9	100.9



Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Acq. Method

Sample Position

Injection Volume 10

Acq. Date-Time Sample Info.

Instrument 1

Cal AM 27 THCQ.m

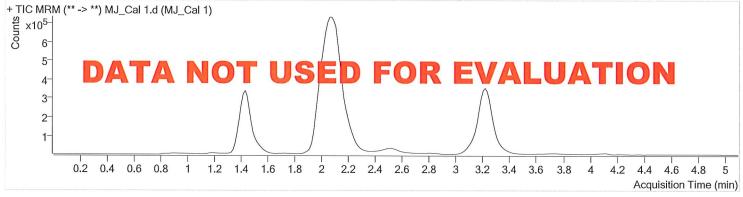
P1-H6

2/19/2021 11:12:33 AM

Data File Sample

Operator Comment MJ_Cal 1.d MJ_Cal 1 Sophia Jackson

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final	Conc.
THC-OH	1.453	32812	ω	10.5	14.13	1533996	1.1233	ng/ml <mark>Low</mark>
THC-COOH	1.459	67488	ω	45.0	198.56	493808	5.0586	ng/ml
THC	3.224	25405	ω	54.4 High	24.68	2889565	1.2112	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Instrument 1 Cal

Type Acq. Method

AM 27 THCQ.m

Sample Position

10

Injection Volume Acq. Date-Time

P1-G6

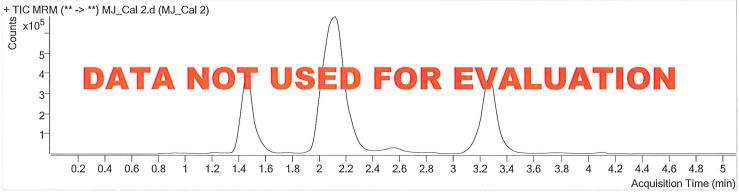
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Sample Info.

Data File Sample Operator Comment

MJ_Cal 2.d MJ_Cal 2 Sophia Jackson

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.468	72629	∞	12.2	130.83	1780374	2.6273	ng/ml Low
THC-COOH	1.489	133026	653.79	53.0	∞	537874	9.8505	ng/ml
THC	3.285	78866	222.01	33.2	124.04	3129289	2.9643	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Instrument 1

Cal

Acq. Method

AM 27 THCQ.m

Sample Position
Injection Volume

P1-F6 10

Acq. Date-Time

2/19/2021 11:27:56 AM

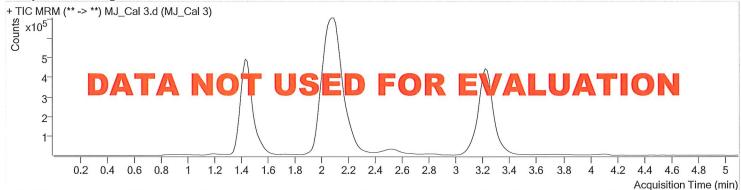
Sample Info.

Data File Sample

Sample Operator Comment MJ_Cal 3.d MJ_Cal 3

Sophia Jackson

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.438	138842	∞	11.2	∞	1917623	5.0773	ng/ml
THC-COOH	1.459	279597	4350.19	55.3	∞	581455	19.9644	ng/ml
THC	3.239	155245	281.69	33.3	91.33	3402009	5.1469	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument Type

Instrument 1

Acq. Method

AM 27 THCQ.m

Sample Position Injection Volume

P1-E6 10

Acq. Date-Time Sample Info.

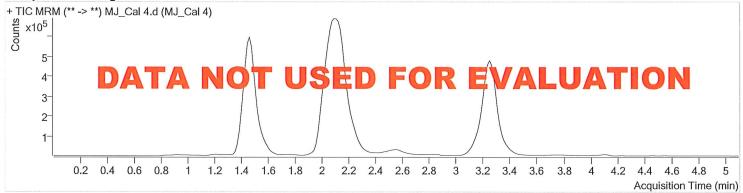
Cal

Data File Sample Operator Comment MJ_Cal 4.d MJ_Cal 4

Sophia Jackson

2/19/2021 11:35:33 AM

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	257234	∞	11.7	∞	1893411	9.9956	ng/ml
THC-COOH	1.489	681320	3020.53	55.9	2273.87	585168	49.5630	ng/ml
THC	3.254	320708	1692.58	28.3	∞	3533718	9.9674	ng/ml





Batch results D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin Calibration Last Update 2/24/2021 11:58:33 AM

Instrument Type Acq. Method Instrument 1

Cal

AM 27 THCQ.m P1-D6

Sample Position Injection Volume Acq. Date-Time

10

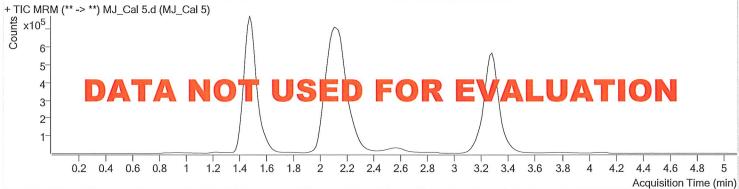
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Sample Info.

Data File Sample

Operator Comment MJ_Cal 5.d MJ_Cal 5 Sophia Jackson

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.468	626437	270.02	11.7	∞	1932464	24.5910	ng/ml
THC-COOH	1.504	1047337	∞	56.4	6827.89	597874	75.0039	ng/ml
THC	3.285	782885	2697.57	25.5	∞	3518257	24.0437	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Instrument 1

Cal

AM 27 THCQ.m

2/19/2021 11:50:46 AM

Acq. Method Sample Position

P1-C6 10

Injection Volume Acq. Date-Time

Sample Info.

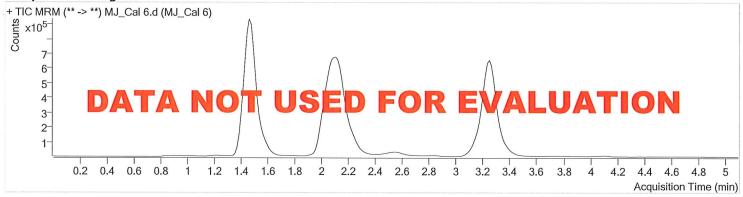
Data File

Sample

Operator Comment MJ_Cal 6.d MJ_Cal 6

Sophia Jackson

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	1238242	∞	11.7	∞	1882007	50.4612	ng/ml
THC-COOH	1.489	1319033	34632.31	58.9	∞	569268	99.4854	ng/ml
THC	3.254	1574825	∞	24.7	495.42	3366594	50.2446	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Type

Instrument 1

Acq. Method Sample Position

Injection Volume Acq. Date-Time

Cal

AM 27 THCQ.m

P1-B6 10

2/19/2021 11:58:23 AM

Sample Info.

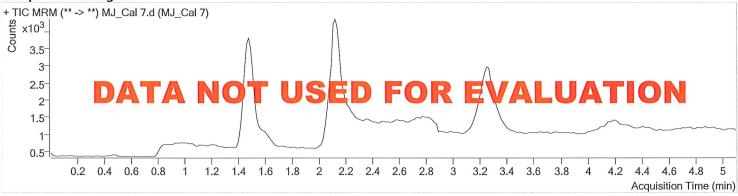
Data File

Sample Operator MJ Cal 7.d MJ_Cal 7

Sophia Jackson

Comment

Sample Chromatogram



Sample reinjected due to poor ISTD response





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27.batch.bin

Data File

Operator

Comment

Sample

MJ_Cal 7 R.d

Sophia Jackson

MJ_Cal 7 R

Calibration Last Update 2/24/2021 11:58:33 AM

Instrument

Instrument 1

Type Acq. Method

Cal AM 27 THCQ.m

Sample Position

10

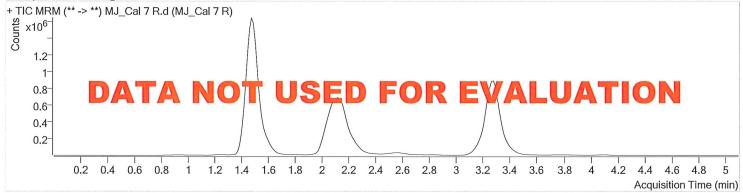
Injection Volume Acq. Date-Time

Sample Info.

P1-B6

2/19/2021 12:21:17 PM

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.468	2507936	∞	11.9	∞	1915524	100.9450	ng/ml
THC-COOH	1.489	3177943	∞	57.6	15421.1 2	551592	248.6496	ng/ml
THC	3.285	3111161	∞	25.7	2780.09	3354404	99.3546	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Instrument 1

Cal

Acq. Method

AM 27 THCQ.m

Sample Position Injection Volume

10

Acq. Date-Time Sample Info.

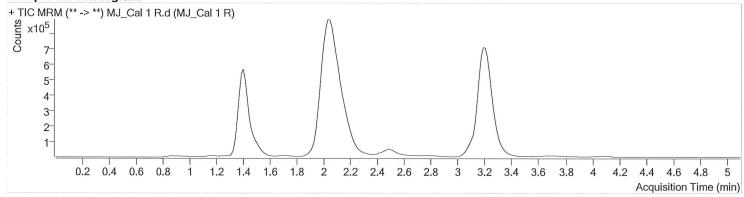
P1-H6

2/19/2021 3:28:58 PM

Data File Sample

Operator Comment MJ_Cal 1 R.d MJ_Cal 1 R

Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.438	48954	∞	9.7	31.43	2386711	1.1108	ng/ml Low
THC-COOH	1.429	86950	118.20	52.4	1025.46	700498	4.9460	ng/ml Low
* THC	3.209	53534	94.60	64.2 High		5588204	1.2604	ng/mL 5







Batch results
Calibration Last Update

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type Instrument 1

Ca

Acq. Method

AM 27 THCQ.m

Sample Position Injection Volume

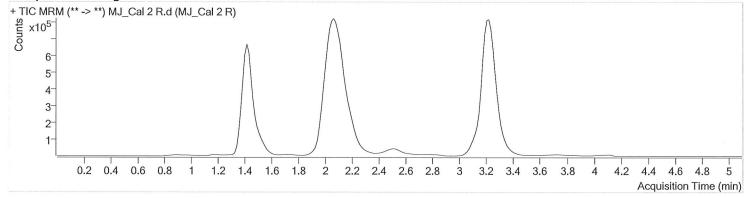
P1-G6 10

Acq. Date-Time

2/19/2021 3:36:44 PM

Sample Info.

Data File Sample Operator Comment MJ_Cal 2 R.d MJ_Cal 2 R Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.423	113850	∞	11.5	244.25	2737123	2.7552	ng/ml Low
THC-COOH	1.444	193642	∞	53.0	1125.83	800077	9.9247	ng/ml
THC	3.224	167789	568.11	30.7	∞	6271873	3.0013	ng/ml



Data File

Operator

Comment

Sample



Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

MJ_Cal 3 R.d

Sophia Jackson

MJ_Cal 3 R

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Instrument 1

Cal

Acq. Method

Sample Info.

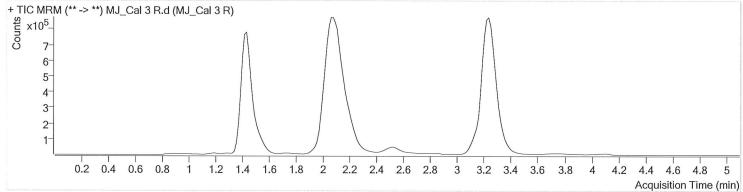
AM 27 THCQ.m

Sample Position

Injection Volume Acq. Date-Time

P1-F6

2/19/2021 3:44:19 PM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.423	200652	∞	11.3	∞	2890434	4.9252	ng/ml
THC-COOH	1.459	406565	∞	57.7	1046.92	833750	20.2959	ng/ml
THC	3.239	309809	294.99	27.1	173.62	6524824	5.1027	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument

Instrument 1

Туре

Cal AM 27 THCQ.m

Acq. Method
Sample Position

P1-E6 10

Injection Volume
Acq. Date-Time

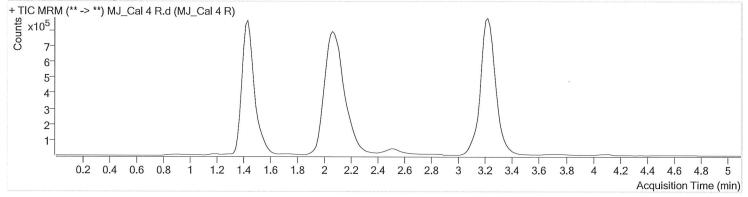
ime 2/19/2021 3:51:55 PM

Sample Info.

Data File Sample

Operator Comment MJ_Cal 4 R.d MJ_Cal 4 R Sophia Jackson

Sopina sacksor



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.423	358926	∞	11.4	1105.04	2674361	9.9782	ng/ml
THC-COOH	1.444	921264	5179.48	58.8	4521.43	772471	50.0653	ng/ml
THC	3.224	586245	∞	29.3	∞	6205820	9.8658	ng/ml



Data File

Operator

Comment

Sample



Batch results Calibration Last Update

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

MJ_Cal 5 R.d

Sophia Jackson

MJ_Cal 5 R

2/24/2021 11:53:55 AM

Instrument

Type

Instrument 1

Cal

Acq. Method

AM 27 THCQ.m

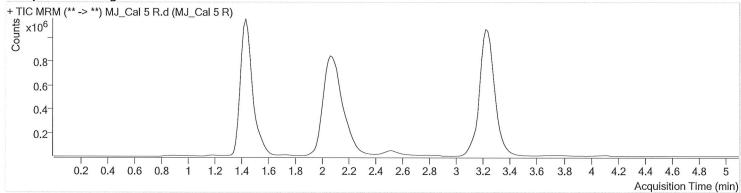
Sample Position Injection Volume

10

Acq. Date-Time Sample Info.

P1-D6

2/19/2021 3:59:30 PM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
THC-OH	1.423	914116	∞	11.7	588.70	2842568	24.5913	ng/ml
THC-COOH	1.459	1433477	∞	59.5	∞	806407	74.7676	ng/ml
THC	3.239	1569958	4048.09	24.8	∞	6551856	24.5808	ng/ml



Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument

Type

Instrument 1

Cal

Acq. Method

AM 27 THCQ.m P1-C6

Sample Position

Injection Volume Acq. Date-Time

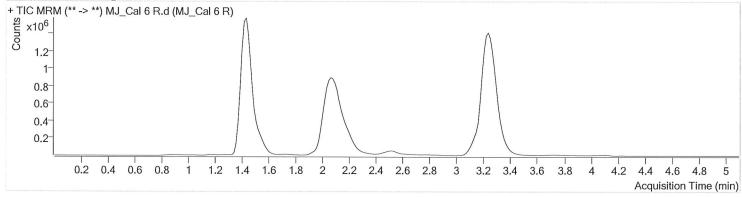
10

2/19/2021 4:07:08 PM

Sample Info.

Data File Sample Operator Comment

MJ_Cal 6 R.d MJ_Cal 6 R Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
THC-OH	1.423	1966729	∞	11.9	∞	3050986	49.7851	ng/ml
THC-COOH	1.444	1977377	∞	59.5	co	825230	100.8869	ng/ml
THC	3.239	3480564	8878.91	25.5	∞	7031190	50.4718	ng/ml





Batch results

D:\MassHunter\Data\2021\AM 27-28\021921 AM 27 SJ\QuantResults\AM 27 post clog.batch.bin

Calibration Last Update 2/24/2021 11:53:55 AM

Instrument Type

Instrument 1

Cal

Acq. Method

AM 27 THCQ.m

Sample Position

P1-B6

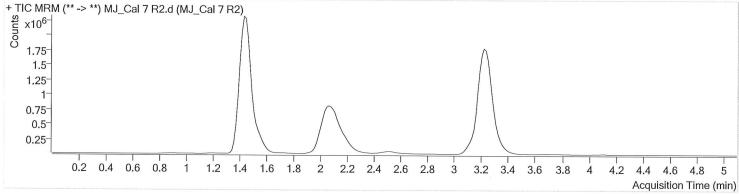
Injection Volume
Acq. Date-Time

10 2/19/2021 4:14:43 PM

Sample Info.

Data File Sample

Operator Comment MJ_Cal 7 R2.d MJ_Cal 7 R2 Sophia Jackson



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
THC-OH	1.423	3497024	∞	11.8	2788.99	2691184	100.8542	ng/ml
THC-COOH	1.444	4233034	∞	60.3	00	716688	249.1136	ng/ml
THC	3.239	6157758	∞	25.5	∞	6261962	99.9776	ng/ml