

**REVIEWED**

By Sarah Collins at 11:37 am, Apr 27, 2021

TS

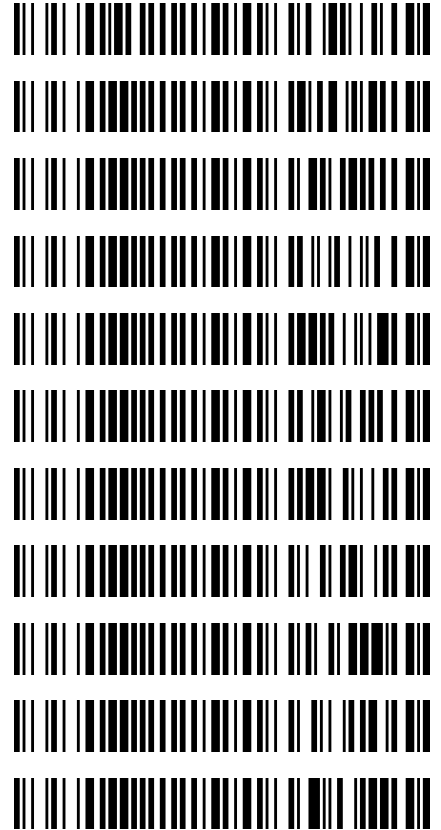
4/14/2021

**Worklist: 4904**

**REVIEWED**

By Sarah Collins at 10:16 am, Apr 29, 2021

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2021-1475	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0713	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0727	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0789	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0874	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0894	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0945	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-0988	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-1031	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-1048	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2021-1106	1	BCK	AM 27 Blood THC Quant by LC-QQQ



Central data updated 4/28/2021 due to hydroxy-THC data not saving in initial analysis. Please refer to updated printouts.

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

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Extraction Date: 4/14/2021

Analyst: Tamara Salazar – HOA Amber Gerheart

Plate lot#: 201206

Plate Expiration: 6/6/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: 20L20724

Column: UCT Selectra DA 100 x 2.1mm 3um

LCMS-QQQ ID: 069901

Blank Urine Lot: N/A

## 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 250ul 1N KOH. Shake and incubate at 40 degrees for 15 minutes. Using a calibrated pipette, add **1000ul blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **500ul 0.1% formic acid in water blood sample, 500 ul saturated phosphate buffer in urine** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **700-800ul of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate. Amount transferred: 800 ul
- 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)**
- 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.
- 16. Reconstitute in **100ul 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  $\geq 0.98$  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 samples with calculated concentrations for THC at 1ng/mL or greater and OH-THC at 3ng/mL or greater may be reported quantitatively (blood only). Calculated concentrations for carboxy-THC of 5ng/mL may be reported qualitatively. 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)
- 6. Enter QCs into control charting.
- 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Calibration Curve Range: THC-OH: 3-100 ng/mL



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	1	2	3	4	5	6
A	IS + Cal. 1	Negative Blood	P2021-0988-1	IS + Sample	IS + Sample	IS + QC_1
B	IS + Cal. 2	M2021-1475-2	Sample moved due to blood clot	IS + Sample	IS + Sample	IS + Cal. 7
C	IS + Cal. 3	P2021-0713-2	P2021-1048-1	IS + Sample	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	P2021-0727-2	Sample moved due to blood clot	IS + Sample	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	P2021-0789-1	P2021-1031-1 (Moved from B3)	IS + Sample	IS + Sample	IS + Cal. 4
F	IS + Cal. 6	P2021-0874-1	P2021-1106-1 (Moved from D3)	IS + Sample	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	P2021-0894-1	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2021-0945-1	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1

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

# AM #27 Cannabinoid Quant. Results

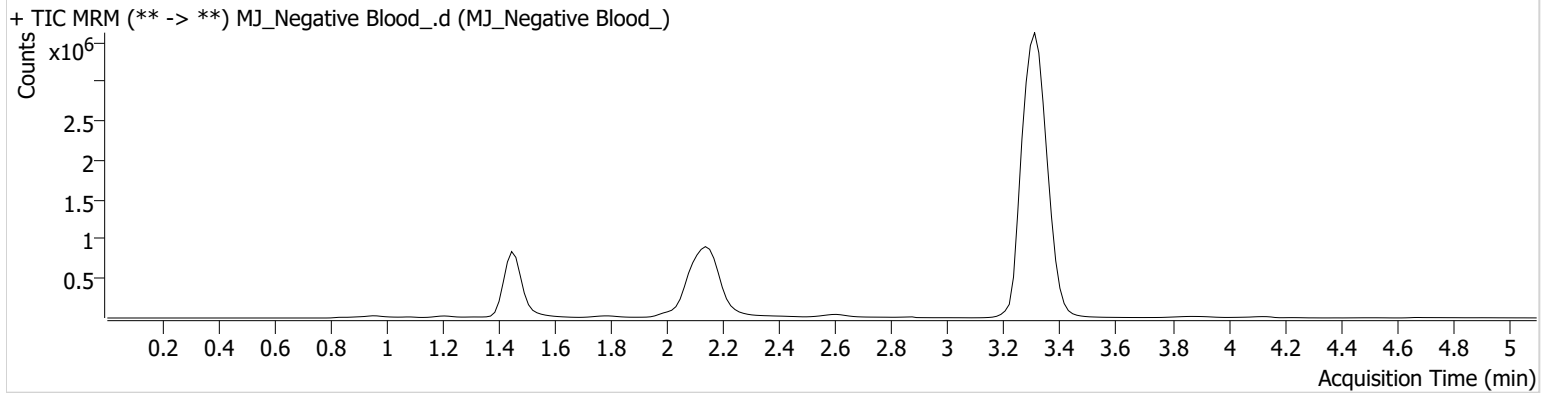
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**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Negative Blood_.d
<b>Type</b>	Sample	<b>Sample</b>	MJ_Negative Blood_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-A2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 6:22:54 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



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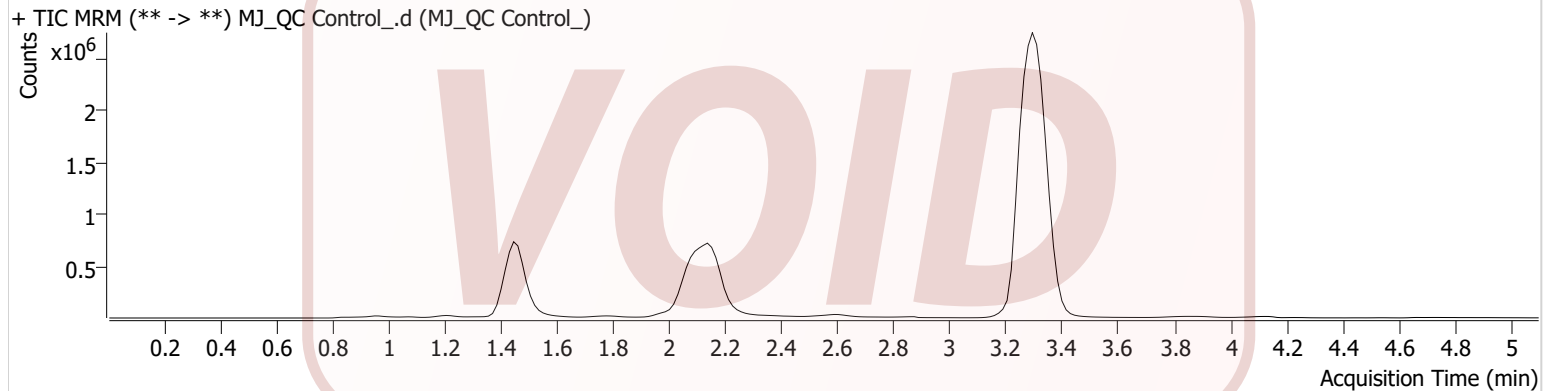


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_QC Control_.d
<b>Type</b>	Sample	<b>Sample</b>	MJ_QC Control_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 6:07:40 PM		

### Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	174781	∞	9.0	∞	2489105	4.1738 ng/ml
THC-COOH	1.489	261564	∞	53.6	757.70	727863	14.1747 ng/ml
THC	3.315	652349	∞	26.2	791.21	17868254	4.0533 ng/ml

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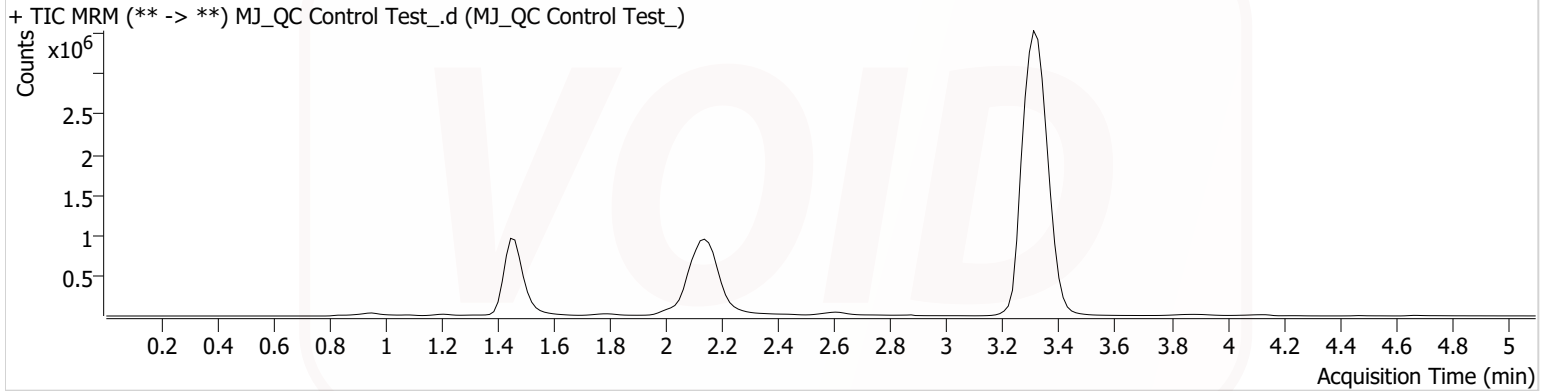


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_QC Control Test_.d
<b>Type</b>	Sample	<b>Sample</b>	MJ_QC Control Test_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 9:17:55 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



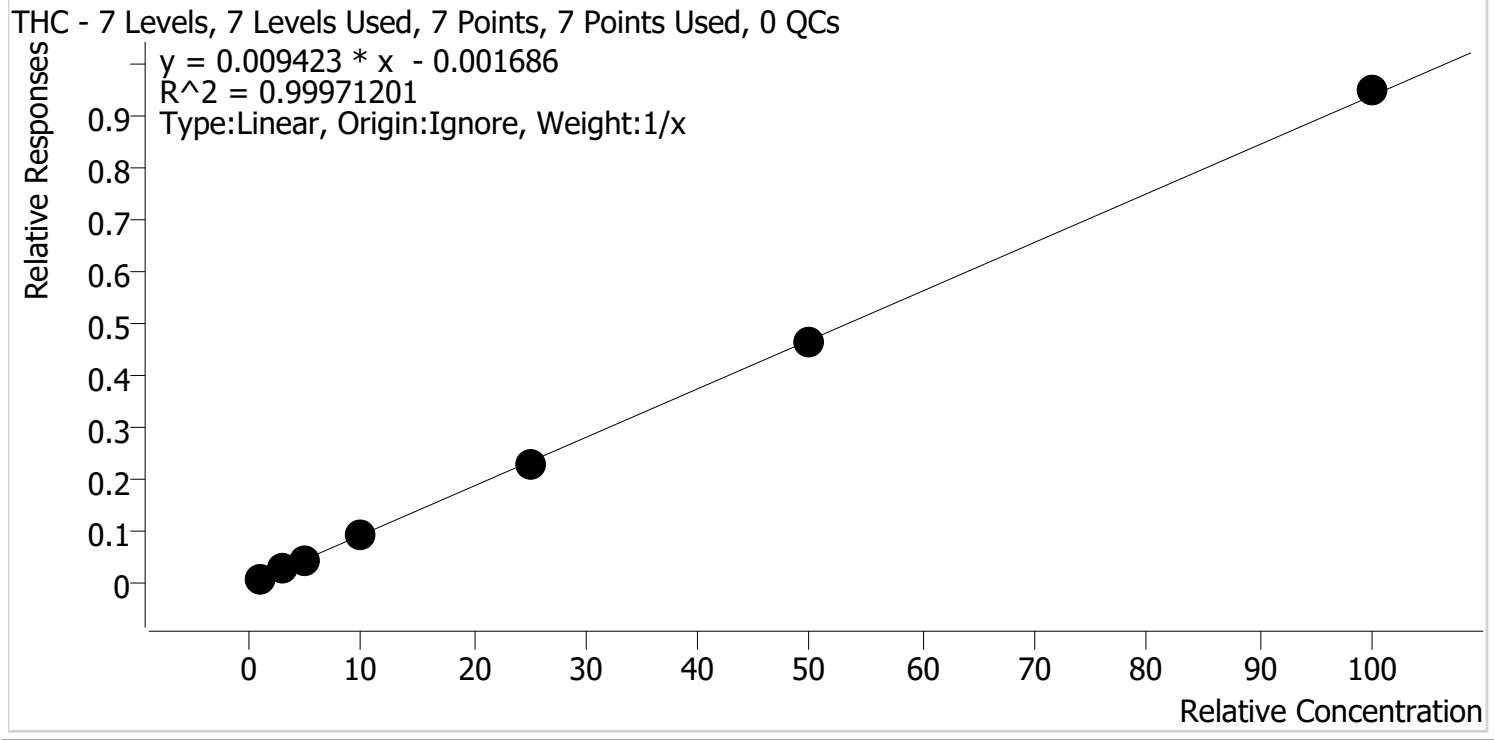
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	213914	∞	8.0	113.20	3054893	4.1588 ng/ml
THC-COOH	1.489	303327	322.89	54.2	659.95	854910	13.9887 ng/ml
THC	3.330	807196	∞	25.8	∞	21432420	4.1757 ng/ml

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# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/15/2021 4:34 PM  
**Analyst Name** ISP\Datastor  
**Analyte** THC **Internal Standard** THC-D3



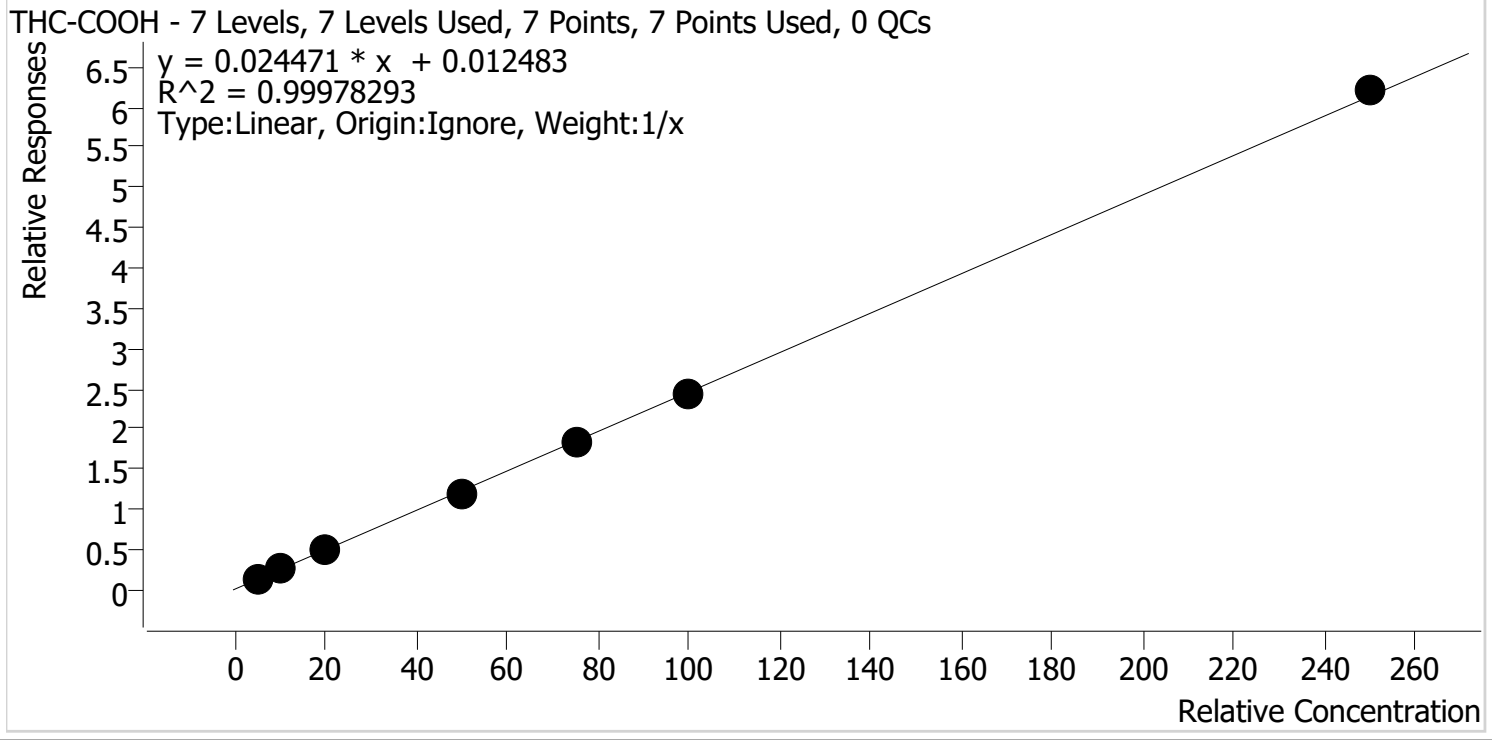
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	✓	1.0	1.1	105.6
MJ_Cal 2_	2	✓	3.0	2.9	95.5
MJ_Cal 3_	3	✓	5.0	5.0	100.5
MJ_Cal 4_	4	✓	10.0	10.1	101.1
MJ_Cal 5_	5	✓	25.0	24.2	96.9
MJ_Cal 6_	6	✓	50.0	49.7	99.3
MJ_Cal 7_	7	✓	100.0	101.0	101.0

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# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/15/2021 4:34 PM  
**Analyst Name** ISP\Datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	✓	5.0	5.2	104.1
MJ_Cal 2_	2	✓	10.0	9.9	99.2
MJ_Cal 3_	3	✓	20.0	19.9	99.7
MJ_Cal 4_	4	✓	50.0	49.0	98.1
MJ_Cal 5_	5	✓	75.0	73.9	98.5
MJ_Cal 6_	6	✓	100.0	99.1	99.1
MJ_Cal 7_	7	✓	250.0	252.9	101.1

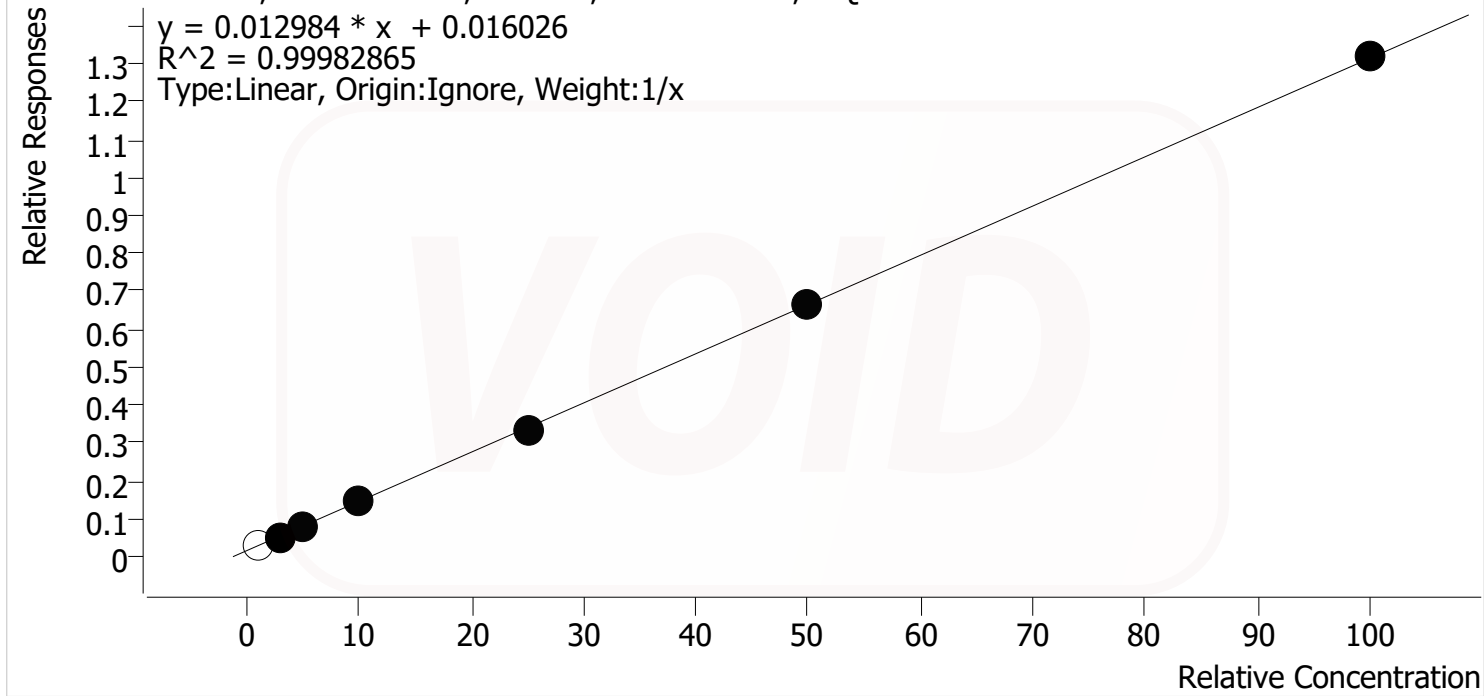
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# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/15/2021 4:34 PM  
**Analyst Name** ISP\Datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	x	1.0	1.2	119.9
MJ_Cal 2_	2	✓	3.0	2.9	96.1
MJ_Cal 3_	3	✓	5.0	5.1	102.8
MJ_Cal 4_	4	✓	10.0	10.3	102.8
MJ_Cal 5_	5	✓	25.0	24.6	98.4
MJ_Cal 6_	6	✓	50.0	49.8	99.6
MJ_Cal 7_	7	✓	100.0	100.3	100.3

\*Cal 1 dropped due to ratio being out

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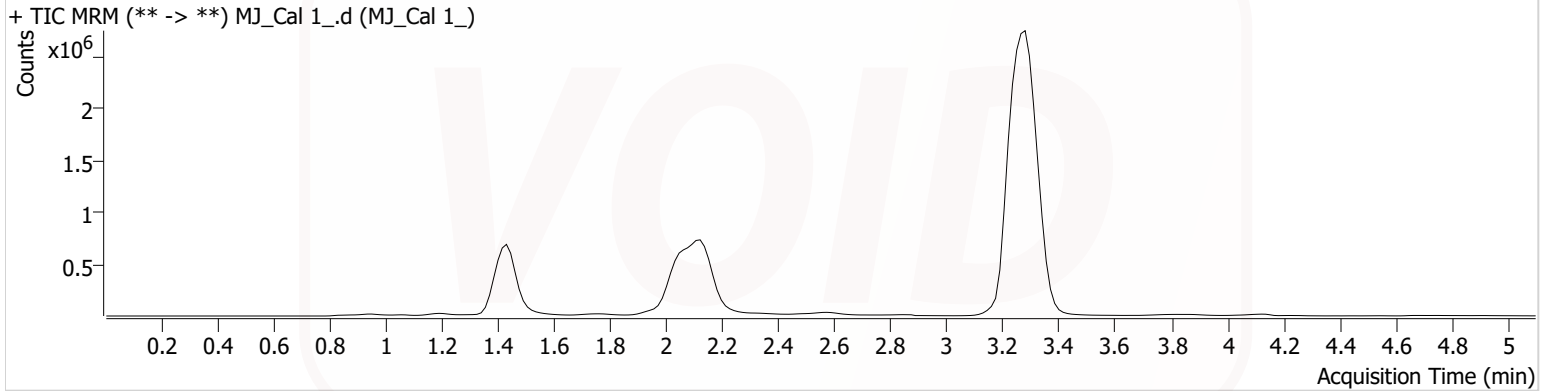


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 1_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 1_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:06:42 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	84204	∞	6.2 <b>Low</b>	28.80	2665510	1.1987 ng/ml <b>Low</b>
THC-COOH	1.459	110604	222.15	44.5	234.55	790509	5.2074 ng/ml
THC	3.285	161158	∞	31.1	115.65	19496732	1.0561 ng/ml



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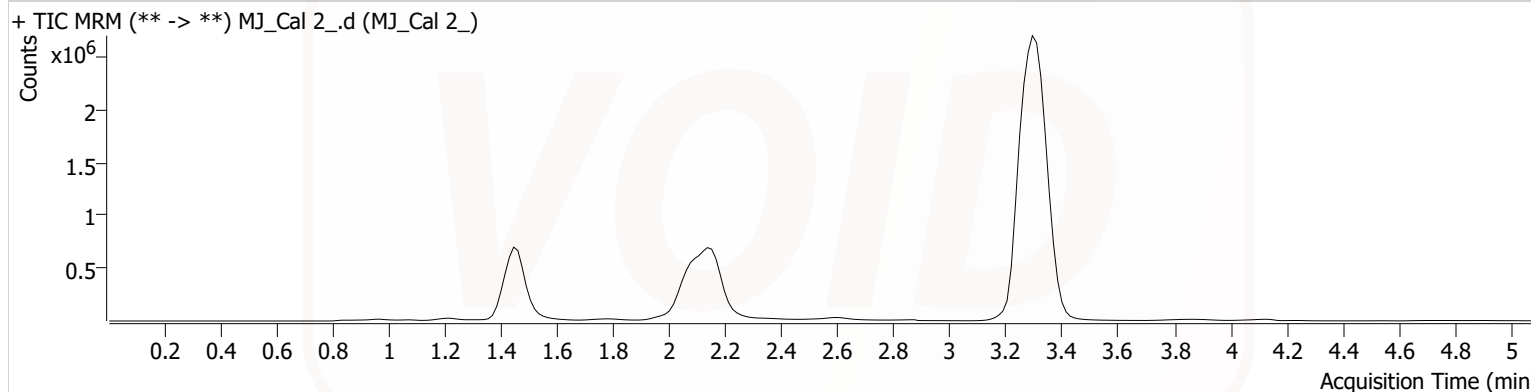


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 2_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 2_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:14:28 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.468	133562	∞	8.8	112.69	2497943	2.8838 ng/ml <b>Low</b>
THC-COOH	1.489	189812	∞	52.0	1075.48	743334	9.9246 ng/ml
THC	3.315	458038	3298.39	27.3	∞	18087012	2.8664 ng/ml

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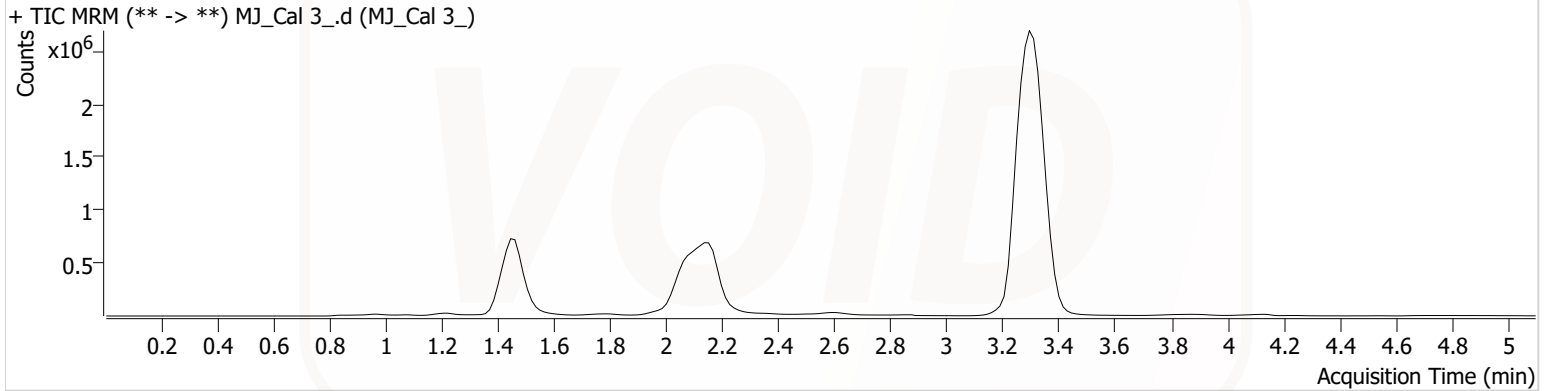
# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 27 THCQ.m  
**Sample Position** P5-C1  
**Injection Volume** 10  
**Acq. Date-Time** 4/14/2021 5:22:04 PM  
**Sample Info.**

**Data File** MJ\_Cal 3\_.d  
**Sample** MJ\_Cal 3\_  
**Operator** Tamara Salazar  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.468	203043	∞	9.8	255.58	2453105	5.1405 ng/ml
THC-COOH	1.489	369568	∞	54.8	869.55	738317	19.9446 ng/ml
THC	3.315	796708	∞	25.5	∞	17448416	5.0245 ng/ml

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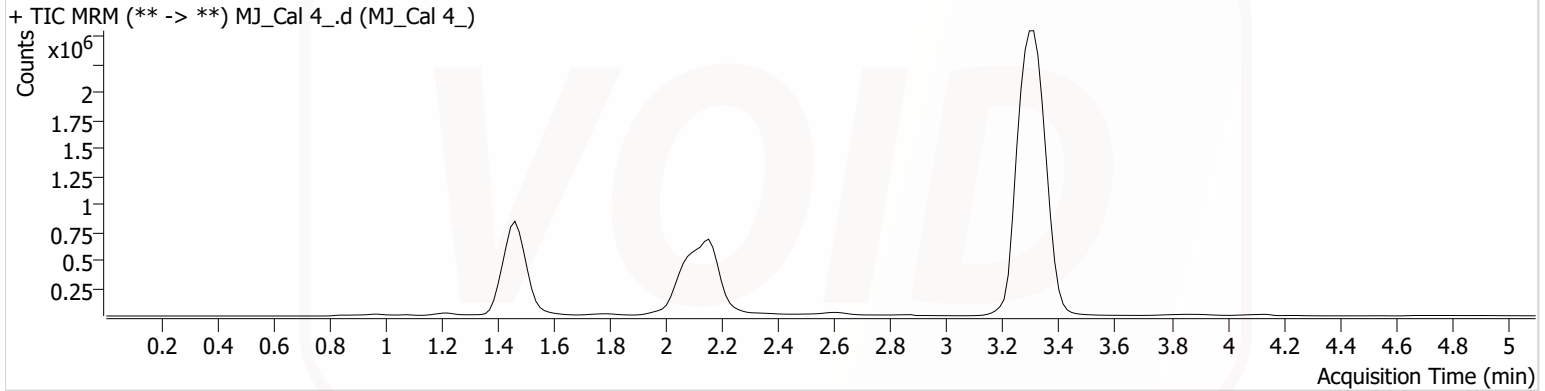


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 4_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 4_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:29:39 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	346134	∞	9.7	∞	2315889	10.2770 ng/ml
THC-COOH	1.489	834603	1126.62	56.8	1463.68	688352	49.0361 ng/ml
THC	3.330	1512533	∞	25.5	306.79	16169105	10.1061 ng/ml

TS

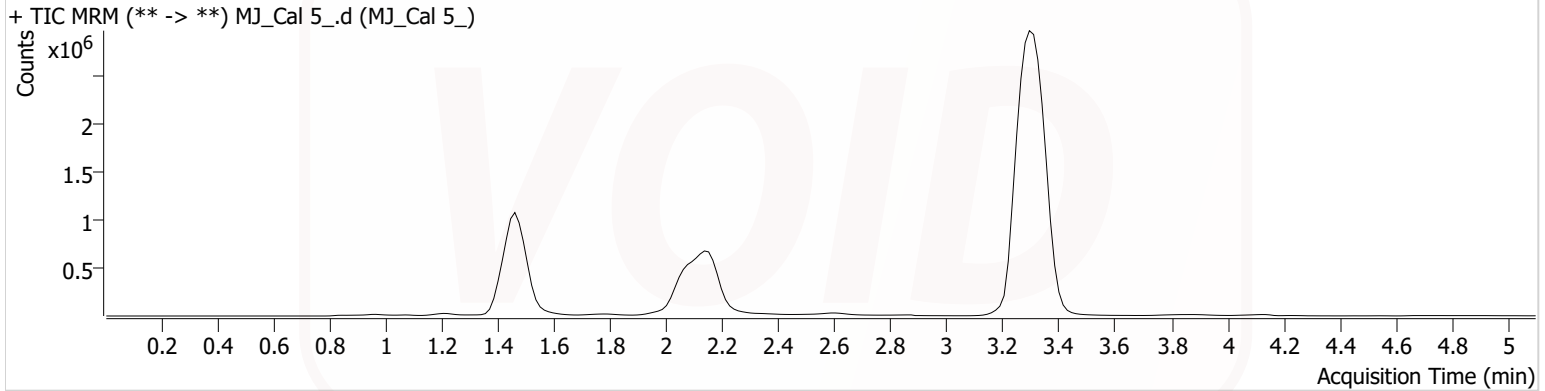


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 5_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 5_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:37:15 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	804035	1187.38	10.7	847.98	2396801	24.6027 ng/ml
THC-COOH	1.489	1270487	∞	56.9	∞	697700	73.9018 ng/ml
THC	3.315	3771240	13149.76	25.8	825.27	16644459	24.2237 ng/ml

TS

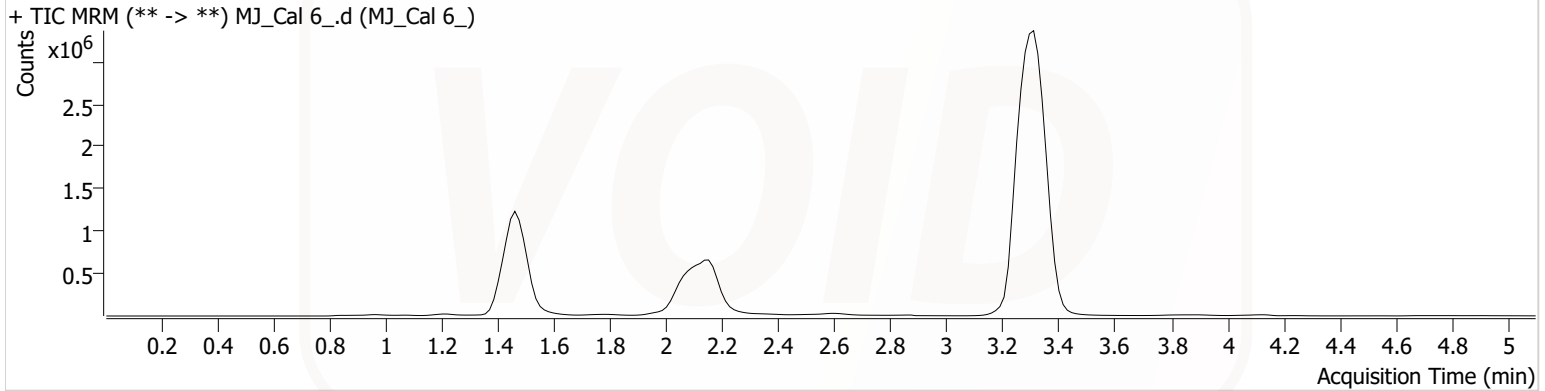


# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

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<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 6_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-F1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:44:50 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	1469917	1322.03	11.3	∞	2218919	49.7868 ng/ml
THC-COOH	1.489	1528731	∞	57.9	11665.35	626923	99.1355 ng/ml
THC	3.315	7105826	∞	25.6	22547.62	15235658	49.6737 ng/ml

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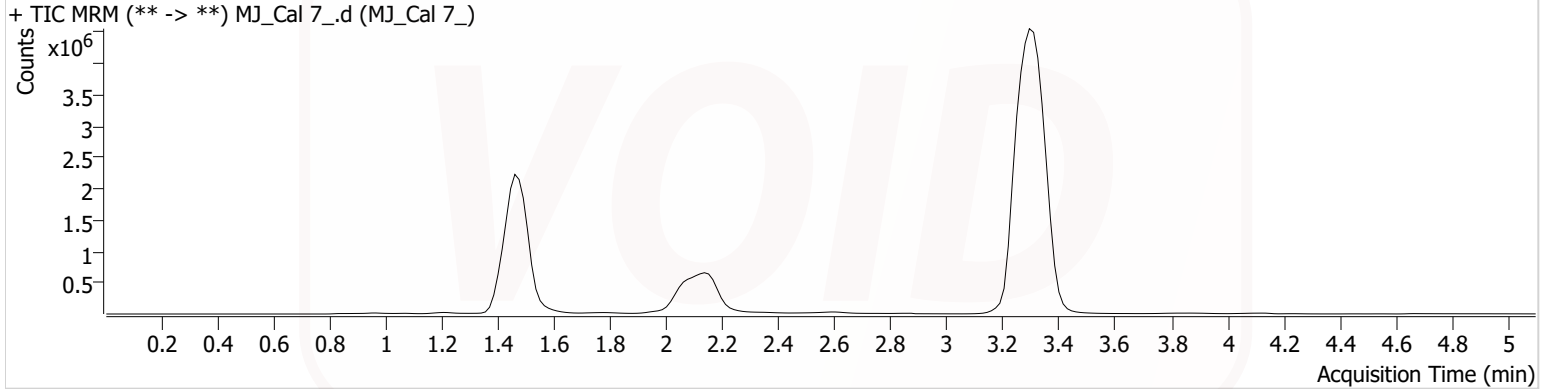
# AM #27 Cannabinoid Quant. Results

**Batch results** G:\TOX\Pocatello\Falco\2021\AM 27-28\04142021 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/15/2021 4:34:36 PM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 27 THCQ.m  
**Sample Position** P5-G1  
**Injection Volume** 10  
**Acq. Date-Time** 4/14/2021 5:52:26 PM  
**Sample Info.**

**Data File** MJ\_Cal 7\_.d  
**Sample** MJ\_Cal 7\_  
**Operator** Tamara Salazar  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	3048889	∞	11.5	∞	2312537	100.3092 ng/ml
THC-COOH	1.489	3840288	∞	57.7	4895.61	619393	252.8501 ng/ml
THC	3.315	14524797	51957.22	25.7	∞	15280975	101.0496 ng/ml

TS

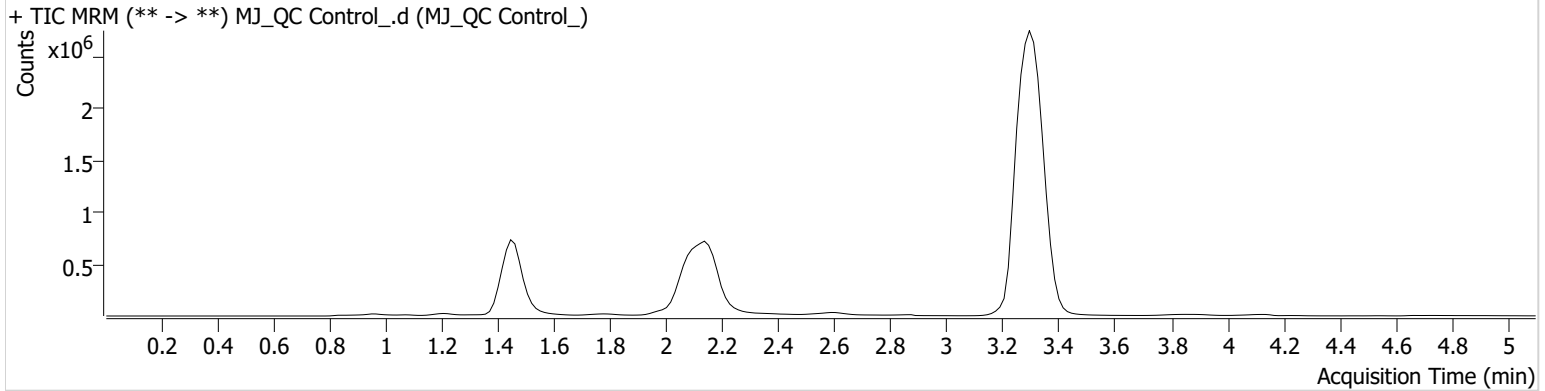


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

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<b>Type</b>	Sample	<b>Sample</b>	MJ_QC Control_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 6:07:40 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	179255	∞	9.0	∞	2489105	4.2251 ng/ml
THC-COOH	1.489	261564	∞	53.6	757.70	727863	14.1747 ng/ml
THC	3.315	652349	∞	26.2	791.21	17868254	4.0533 ng/ml

TS

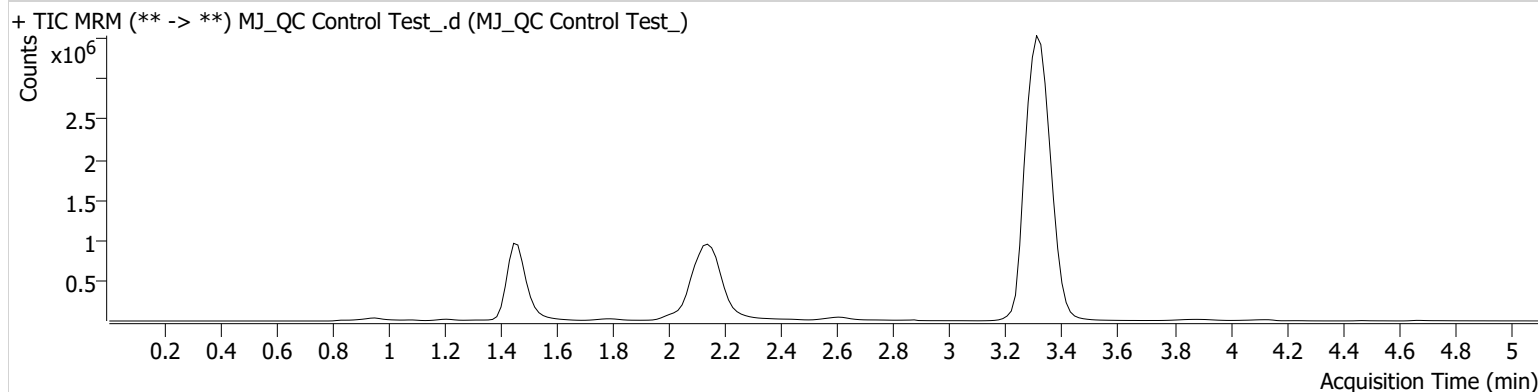


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_QC Control Test_.d
<b>Type</b>	Sample	<b>Sample</b>	MJ_QC Control Test_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 9:17:55 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	222288	∞	8.5	116.42	3054893	4.2838 ng/ml
THC-COOH	1.489	303327	322.89	54.2	659.95	854910	13.9887 ng/ml
THC	3.330	807196	∞	25.8	∞	21432420	4.1757 ng/ml

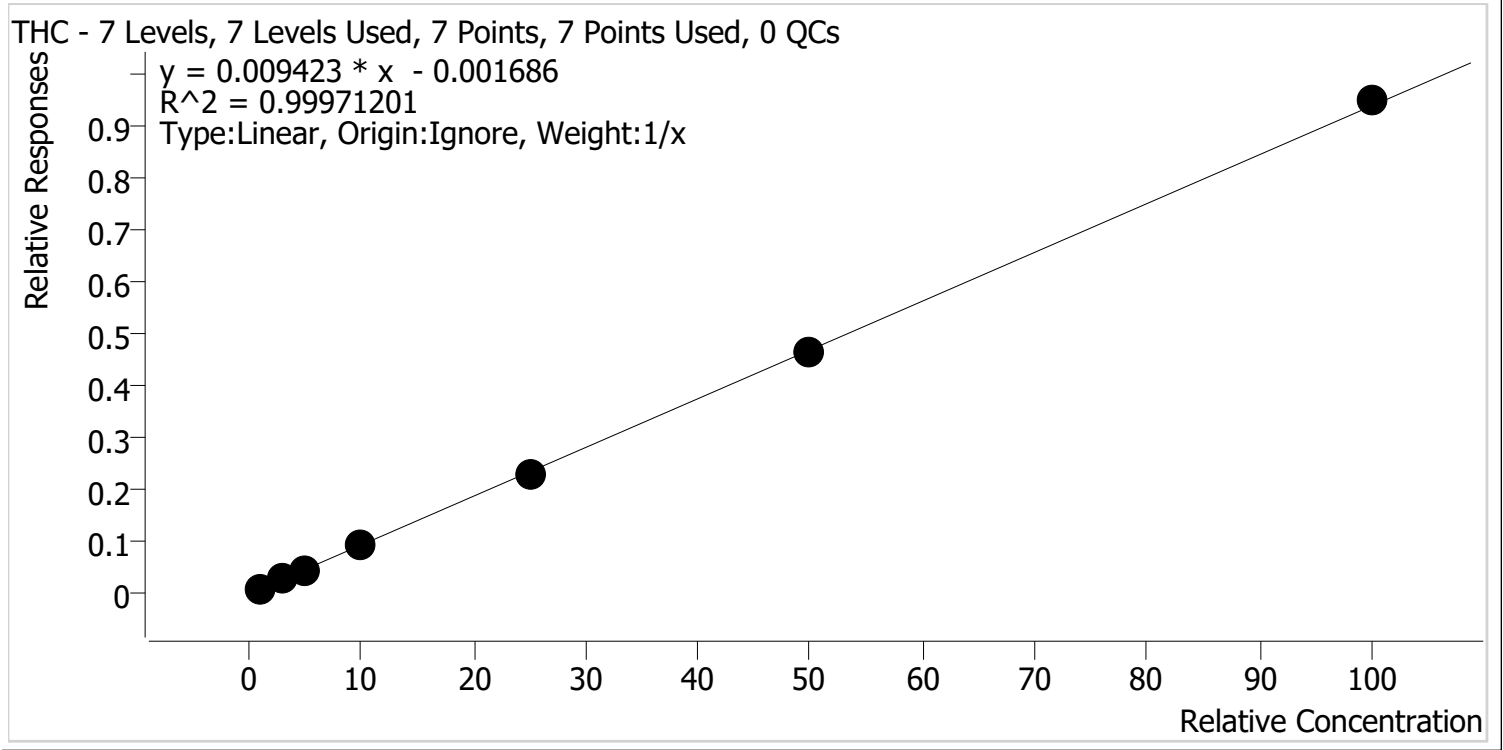


TS



# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/28/2021 1:27 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	✓	1.0	1.1	105.6
MJ_Cal 2_	2	✓	3.0	2.9	95.5
MJ_Cal 3_	3	✓	5.0	5.0	100.5
MJ_Cal 4_	4	✓	10.0	10.1	101.1
MJ_Cal 5_	5	✓	25.0	24.2	96.9
MJ_Cal 6_	6	✓	50.0	49.7	99.3
MJ_Cal 7_	7	✓	100.0	101.0	101.0

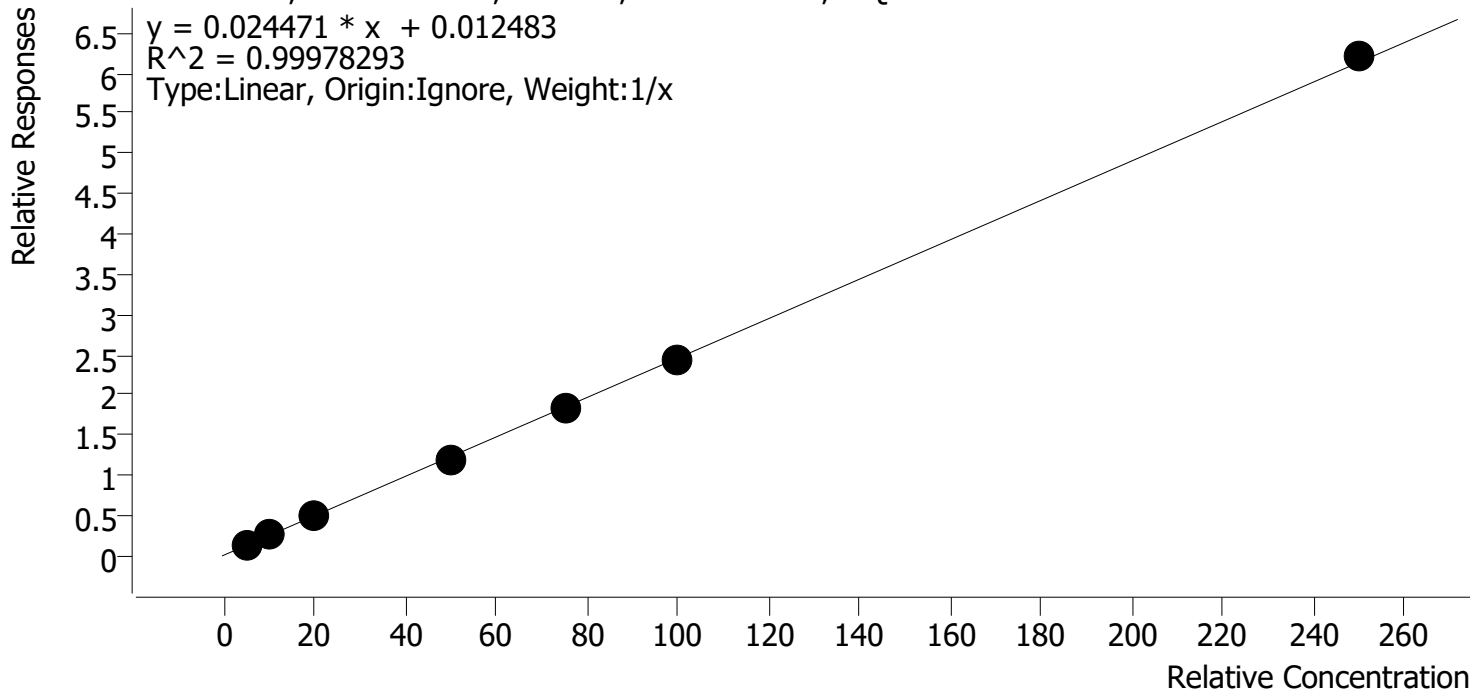
TS



# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/28/2021 1:27 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-D9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



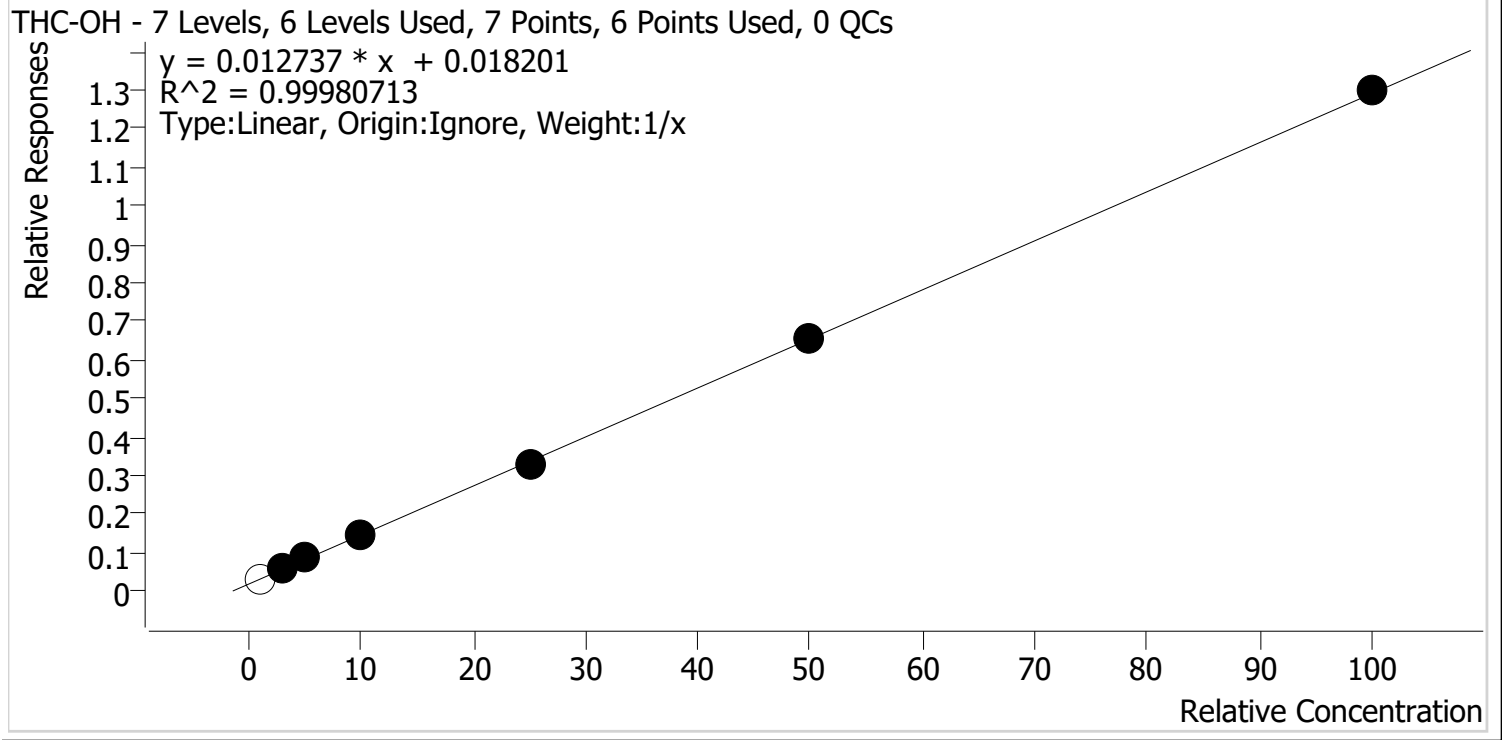
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	✓	5.0	5.2	104.1
MJ_Cal 2_	2	✓	10.0	9.9	99.2
MJ_Cal 3_	3	✓	20.0	19.9	99.7
MJ_Cal 4_	4	✓	50.0	49.0	98.1
MJ_Cal 5_	5	✓	75.0	73.9	98.5
MJ_Cal 6_	6	✓	100.0	99.1	99.1
MJ_Cal 7_	7	✓	250.0	252.9	101.1



TS

# AM #27 Cannabinoids Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Last Cal. Update** 4/28/2021 1:27 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ_Cal 1_	1	x	1.0	1.1	108.8
MJ_Cal 2_	2	✓	3.0	2.9	97.8
MJ_Cal 3_	3	✓	5.0	5.2	104.9
MJ_Cal 4_	4	✓	10.0	9.9	99.1
MJ_Cal 5_	5	✓	25.0	24.5	98.1
MJ_Cal 6_	6	✓	50.0	49.8	99.6
MJ_Cal 7_	7	✓	100.0	100.6	100.6

\*Cal 1 removed due to the ratio being out

TS

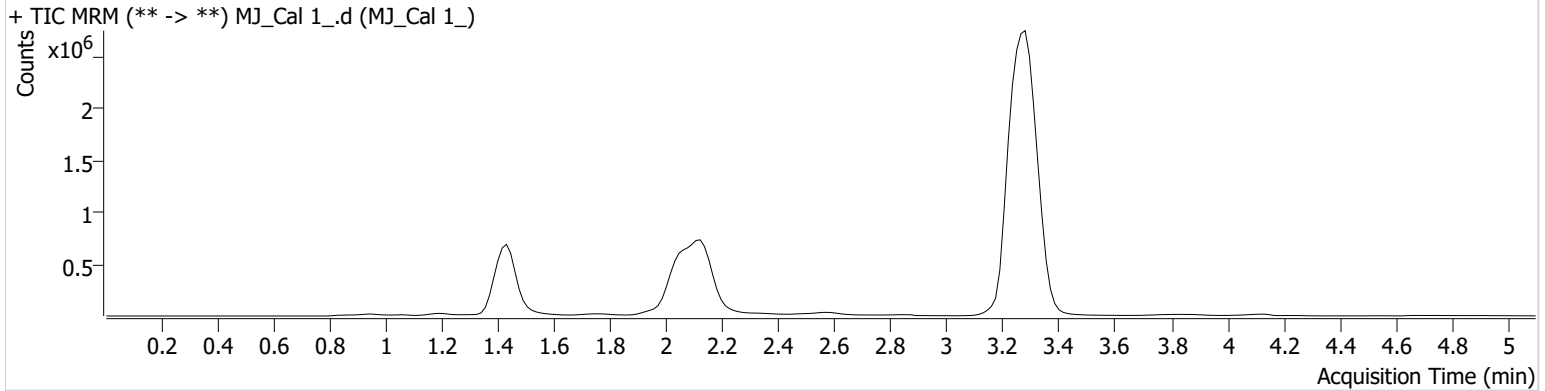


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 1_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 1_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:06:42 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	85444	∞	5.7 <b>Low</b>	18.95	2665510	1.0877 ng/ml <b>Low</b>
THC-COOH	1.459	110604	222.15	44.5	234.55	790509	5.2074 ng/ml
THC	3.285	161158	∞	30.2	110.26	19496732	1.0561 ng/ml

TS

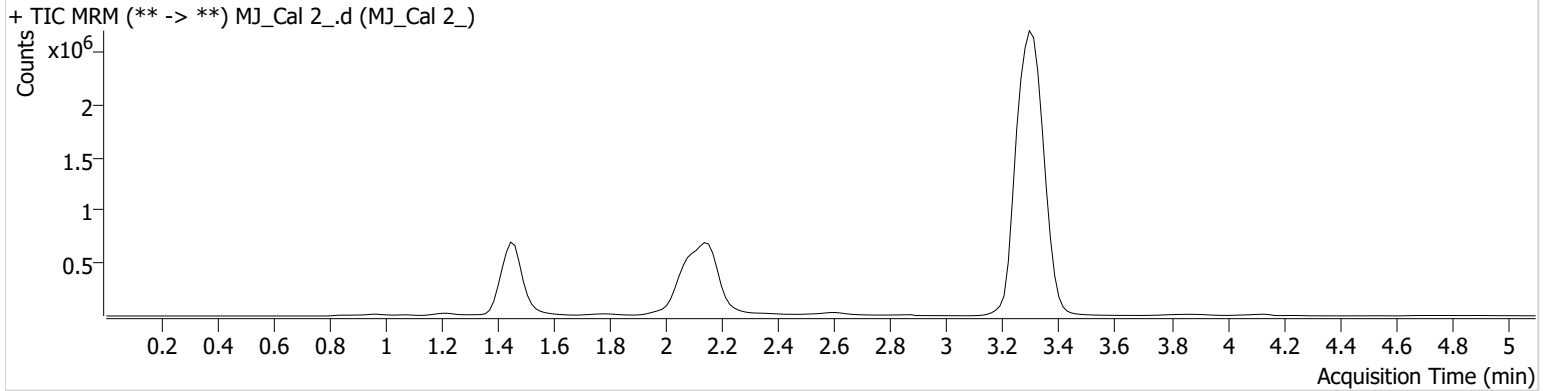


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 2_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 2_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:14:28 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.468	138780	∞	8.0	110.44	2497943	2.9329 ng/ml <b>Low</b>
THC-COOH	1.489	189812	∞	52.0	1075.48	743334	9.9246 ng/ml
THC	3.315	458038	3298.39	27.3	∞	18087012	2.8664 ng/ml

TS

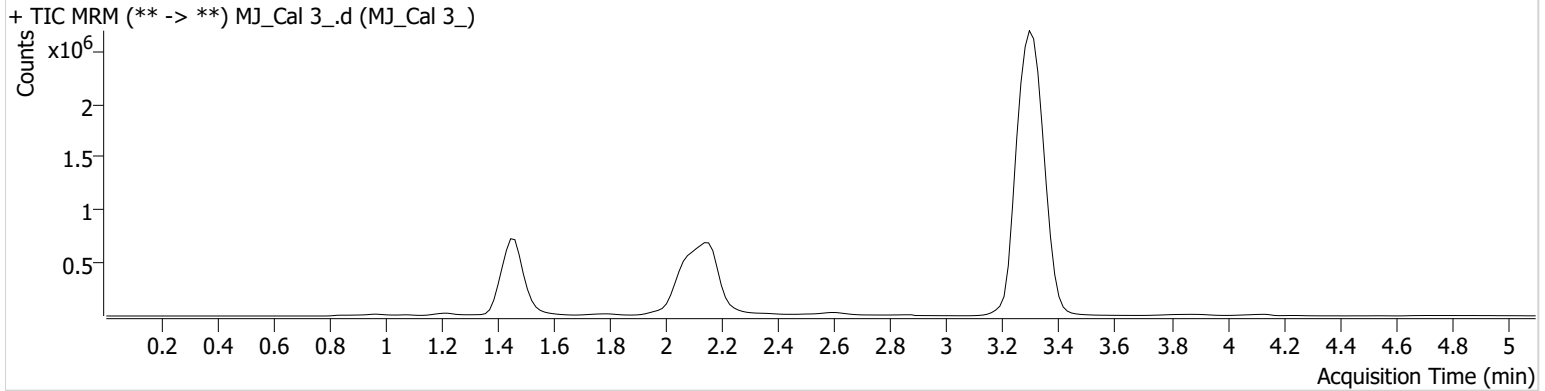


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 3_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 3_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-C1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:22:04 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.468	208458	∞	9.0	251.10	2453105	5.2427 ng/ml
THC-COOH	1.489	369568	∞	54.8	869.55	738317	19.9446 ng/ml
THC	3.315	796708	∞	25.5	∞	17448416	5.0245 ng/ml

TS

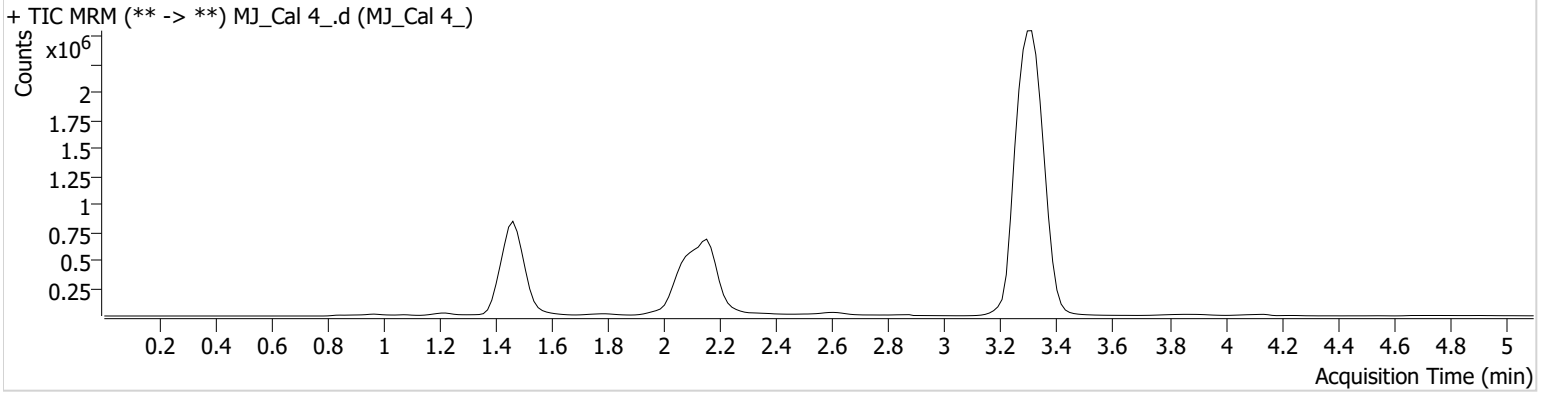


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 4_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 4_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:29:39 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	334449	∞	10.3	489.66	2315889	9.9092 ng/ml
THC-COOH	1.489	834603	1126.62	56.8	1463.68	688352	49.0361 ng/ml
THC	3.330	1512533	∞	25.5	306.79	16169105	10.1061 ng/ml

TS

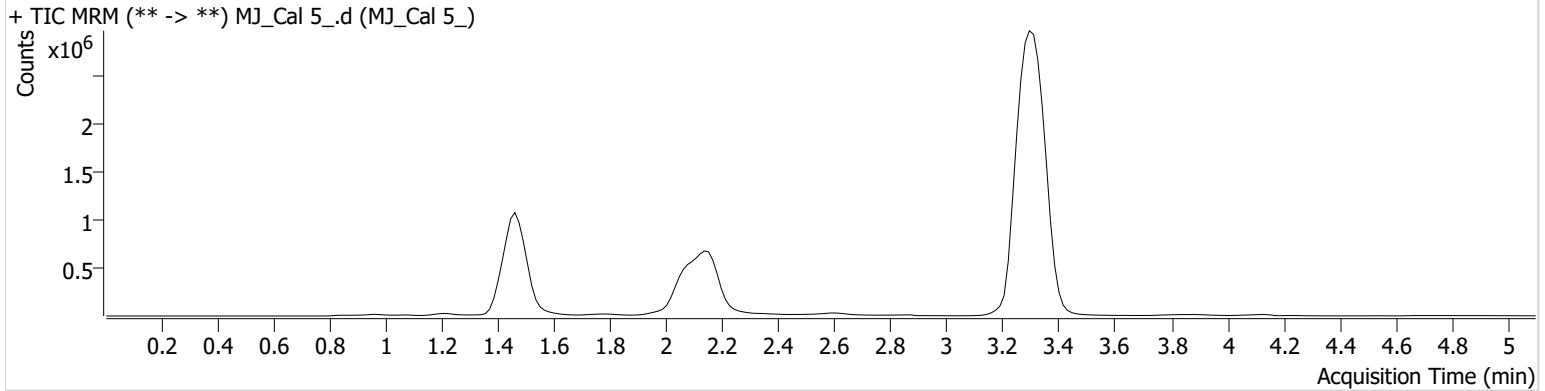


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 5_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 5_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:37:15 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	792197	1180.27	10.7	713.77	2396801	24.5208 ng/ml
THC-COOH	1.489	1270487	∞	56.9	∞	697700	73.9018 ng/ml
THC	3.315	3771240	13149.76	25.8	825.27	16644459	24.2237 ng/ml



TS



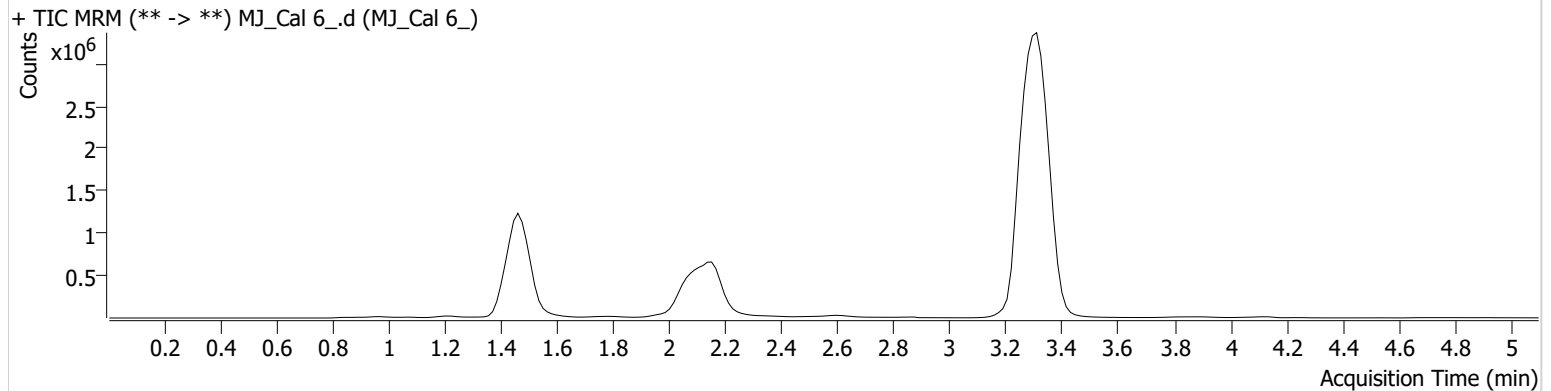
# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 27 THCQ.m  
**Sample Position** P5-F1  
**Injection Volume** 10  
**Acq. Date-Time** 4/14/2021 5:44:50 PM  
**Sample Info.**

**Data File** MJ\_Cal 6\_.d  
**Sample** MJ\_Cal 6\_  
**Operator** Tamara Salazar  
**Comment**

### Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	1448241	1314.44	11.3	∞	2218919	49.8137 ng/ml
THC-COOH	1.489	1528731	∞	57.9	11665.35	626923	99.1355 ng/ml
THC	3.315	7105826	∞	25.6	22547.62	15235658	49.6737 ng/ml

TS

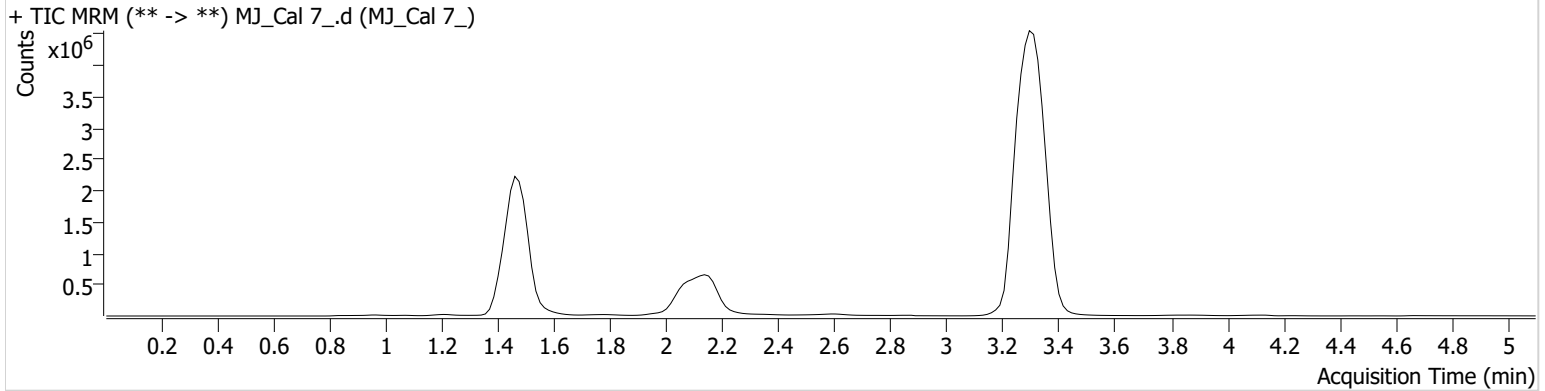


# AM #27 Cannabinoid Quant. Results

**Batch results** D:\MassHunter\Data\2021\AM 27-28\041421 AM 27 AG\QuantResults\AM 27 AG.batch.bin  
**Calibration Last Update** 4/28/2021 1:27:55 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	MJ_Cal 7_.d
<b>Type</b>	Cal	<b>Sample</b>	MJ_Cal 7_
<b>Acq. Method</b>	AM 27 THCQ.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P5-G1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	4/14/2021 5:52:26 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC-OH	1.453	3004677	∞	11.5	∞	2312537	100.5808 ng/ml
THC-COOH	1.489	3840288	∞	57.7	4895.61	619393	252.8501 ng/ml
THC	3.315	14524797	51957.22	25.7	∞	15280975	101.0496 ng/ml