
Not part of this batch

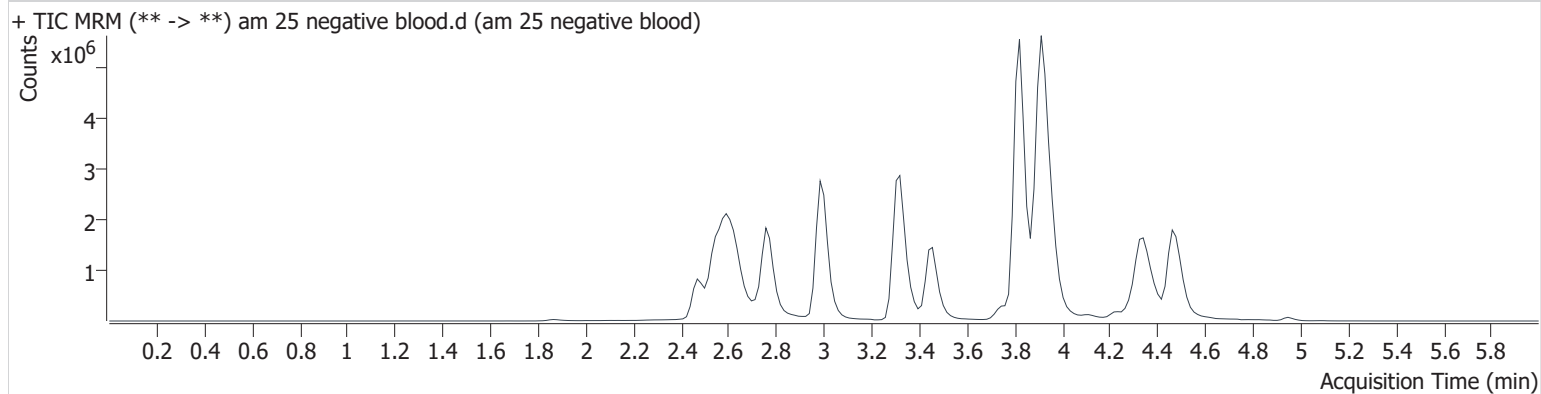
11/2/20

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\md.batch.bin
Calibration Last Update 11/2/2020 10:49:58 AM

Instrument	69679	Data File	am 25 negative blood.d
Type	Sample	Sample	am 25 negative blood
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P2-E2	Comment	
Injection Volume	2.5		
Acq. Date-Time	10/30/2020 3:22:37 PM		
Sample Info.			

Sample Chromatogram



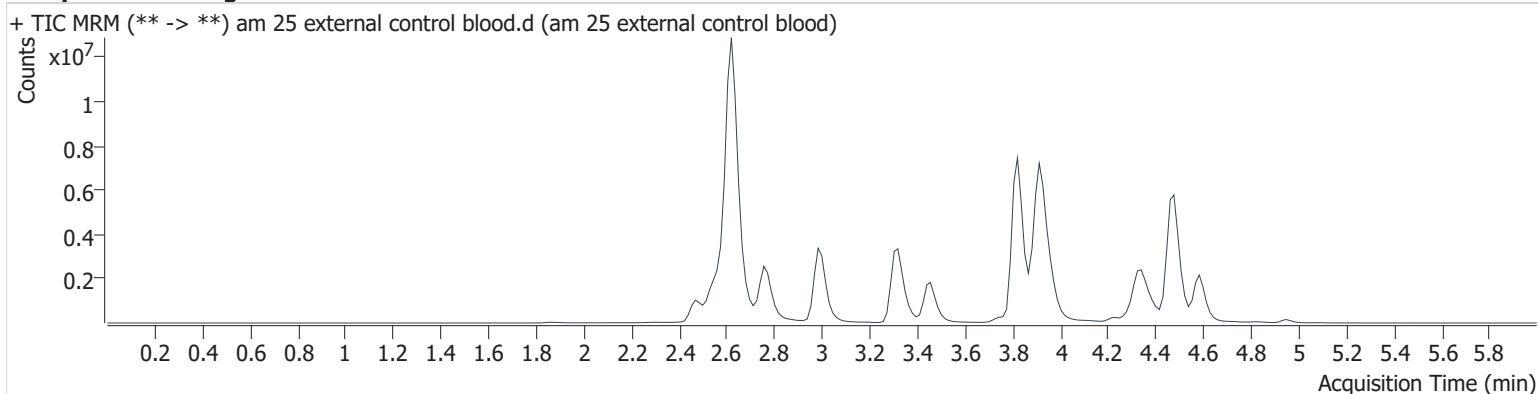
GA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\md.batch.bin
Calibration Last Update 11/2/2020 10:49:58 AM

Instrument	69679	Data File	am 25 external control blood.d
Type	Sample	Sample	am 25 external control blood
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P2-F2	Comment	
Injection Volume	2.5		
Acq. Date-Time	10/30/2020 3:29:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.631	17353739	∞	8966.2	8010148	39.511
Midazolam	4.586	3344126	1468244.5	1564446.6	4970545	109.245
Temazepam	4.484	9346570	1255.1	2623.1	4970545	100.831

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 11/2/20 Analyst: Anne Nord

Plate lot#: 200723 Plate Expiration: 1/23/2021

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water

Mobile phase B: 0.1% Formic acid in MeOH
MTBE Hexane

Blank Blood Lot: 20G20792 **Urine Blank:** 73020 **Column:** Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

LCMS-QQQ ID: 69679

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 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.
Pipette 1000 µL blood (calibrated pipette) in wells of analytical (standards) plate. Pipette ID: K52558g
Pipette 1000 ul urine to analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 4. Pipette 500 µL 0.1% formic acid in blood wells 500 ul saturated phosphate buffer in urine wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer 800 µL 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) Manifold ID: 66792
- 8. Wait 5 minutes.
- 9. Add 2.25 mL MTBE (add in 3 increments of 750 µL).
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- 12. Add 2.25 mL hexane (add in 3 increments of 750 µL).
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
- 16. Reconstitute in 100 µL 100% LCMS MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
- 4. Did all QCs pass for each analyte? Yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Extracts run on both am 26 and am 30

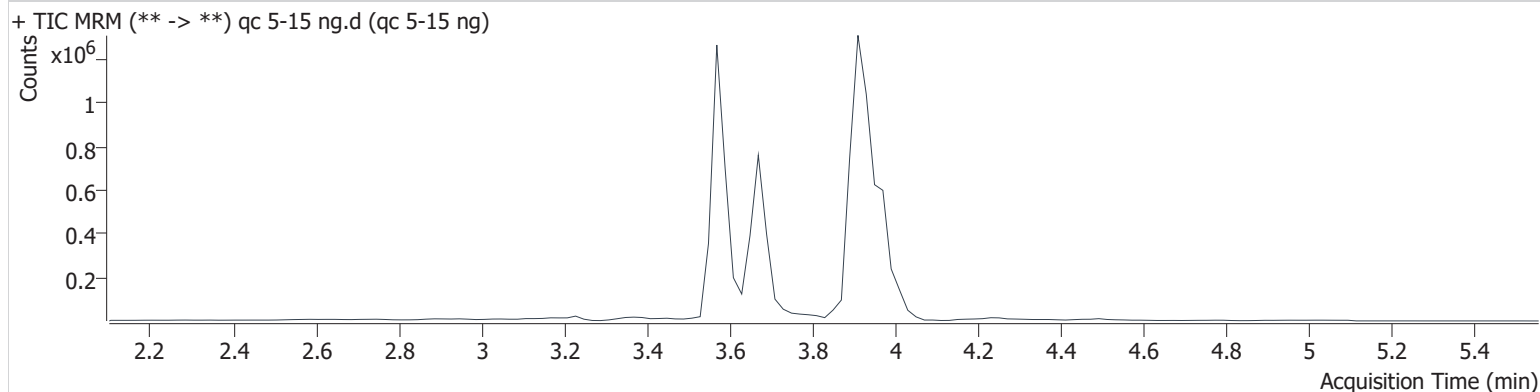
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	qc 5-15 ng.d
Type	QC	Sample	qc 5-15 ng
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-H1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 7:09:54 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	21419	805638	3.681 ng/ml
THC-COOH	3.672	254376	1149503	16.372 ng/ml
THC-OH	3.578	27802	2987820	4.815 ng/ml

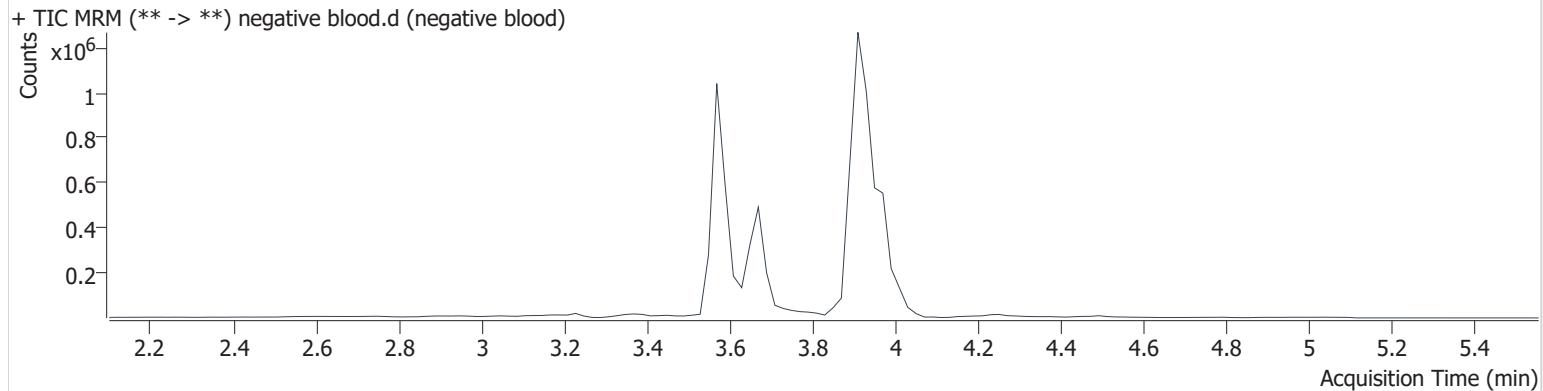
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A2	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 7:16:29 PM		
Sample Info.			

Sample Chromatogram

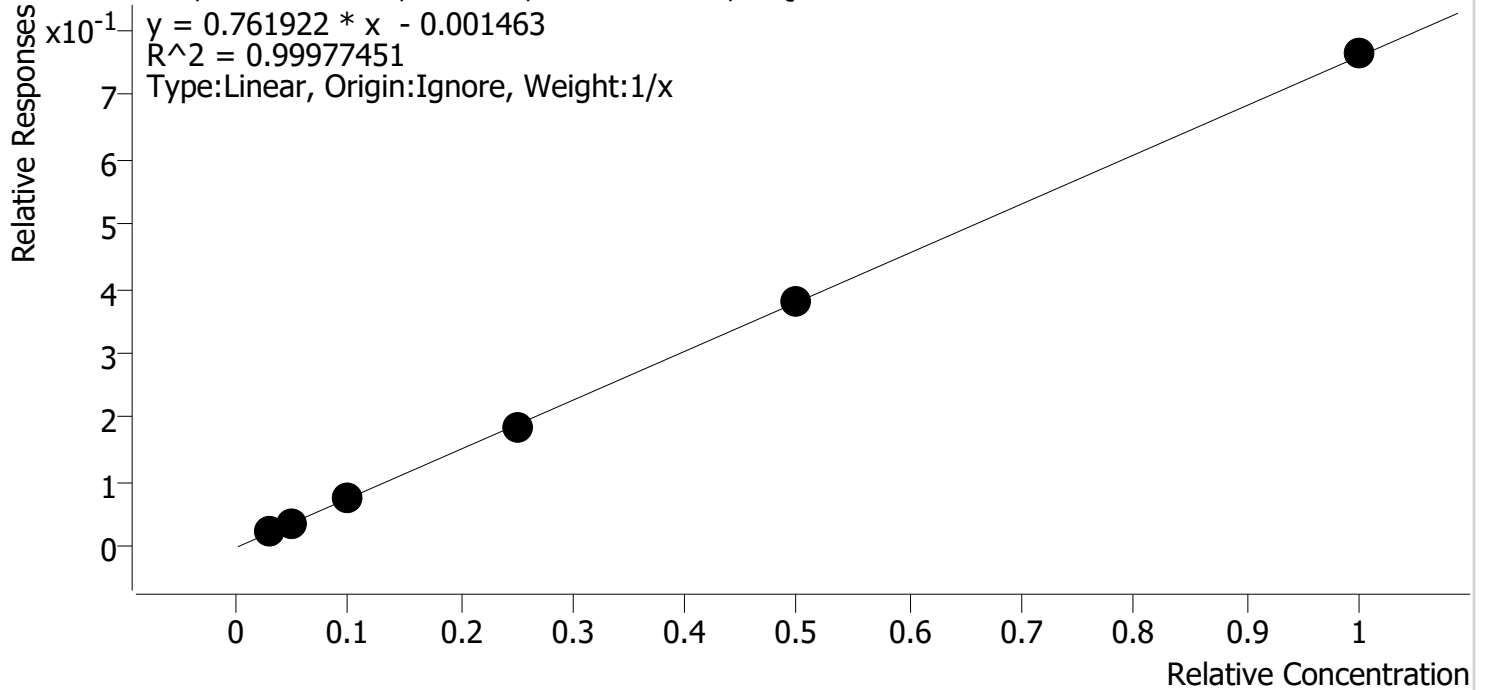


Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Last Cal. Update 11/2/2020 11:05 AM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-d3

THC - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 1 QCs



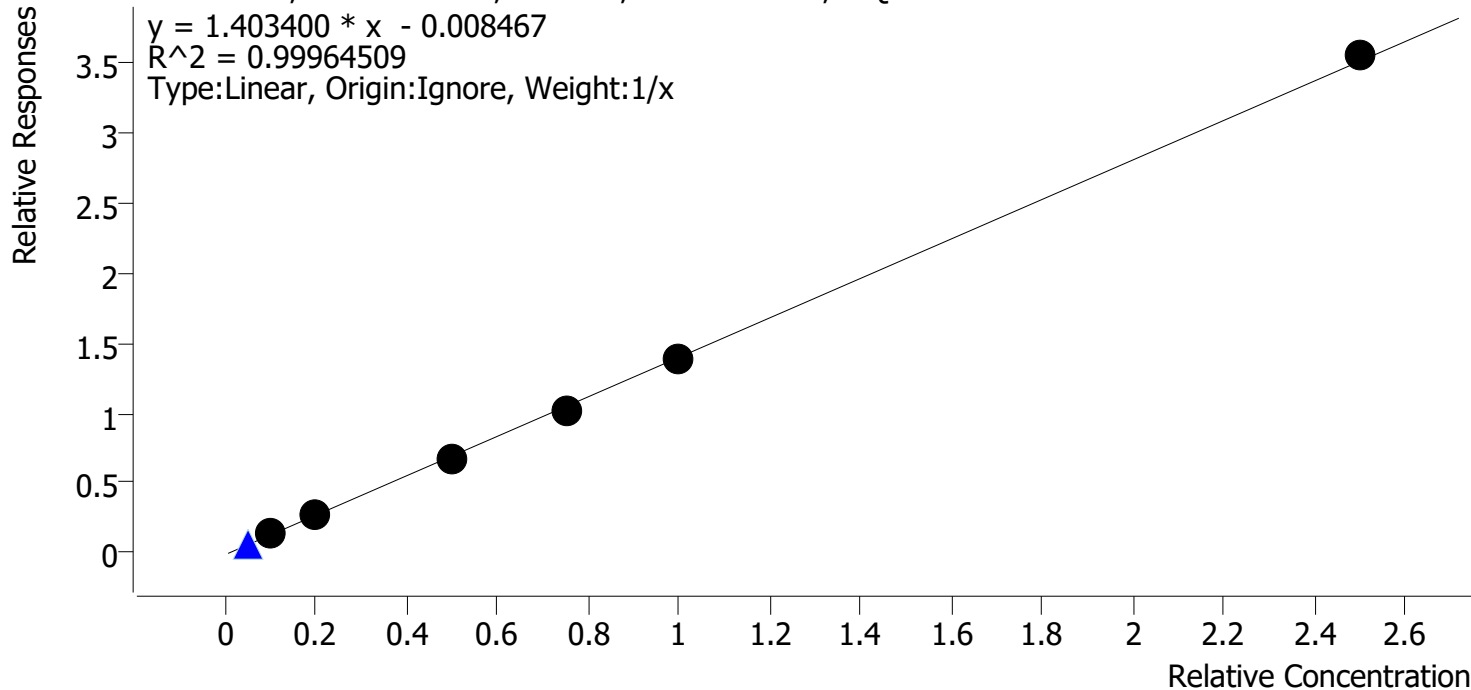
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 2	2	✓	3.0	3.0	100.8
cal 3	3	✓	5.0	5.2	103.2
cal 4	4	✓	10.0	9.8	98.0
cal 5	5	✓	25.0	24.3	97.2
cal-6	6	✓	50.0	50.1	100.3
cal-7	7	✓	100.0	100.6	100.6

Compound Calibration Report



Batch results	D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin		
Last Cal. Update	11/2/2020 11:05 AM		
Analyst Name	ISP\datastor		
Analyte	THC-COOH	Internal Standard	THC-COOH-d9

THC-COOH - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 1 QCs



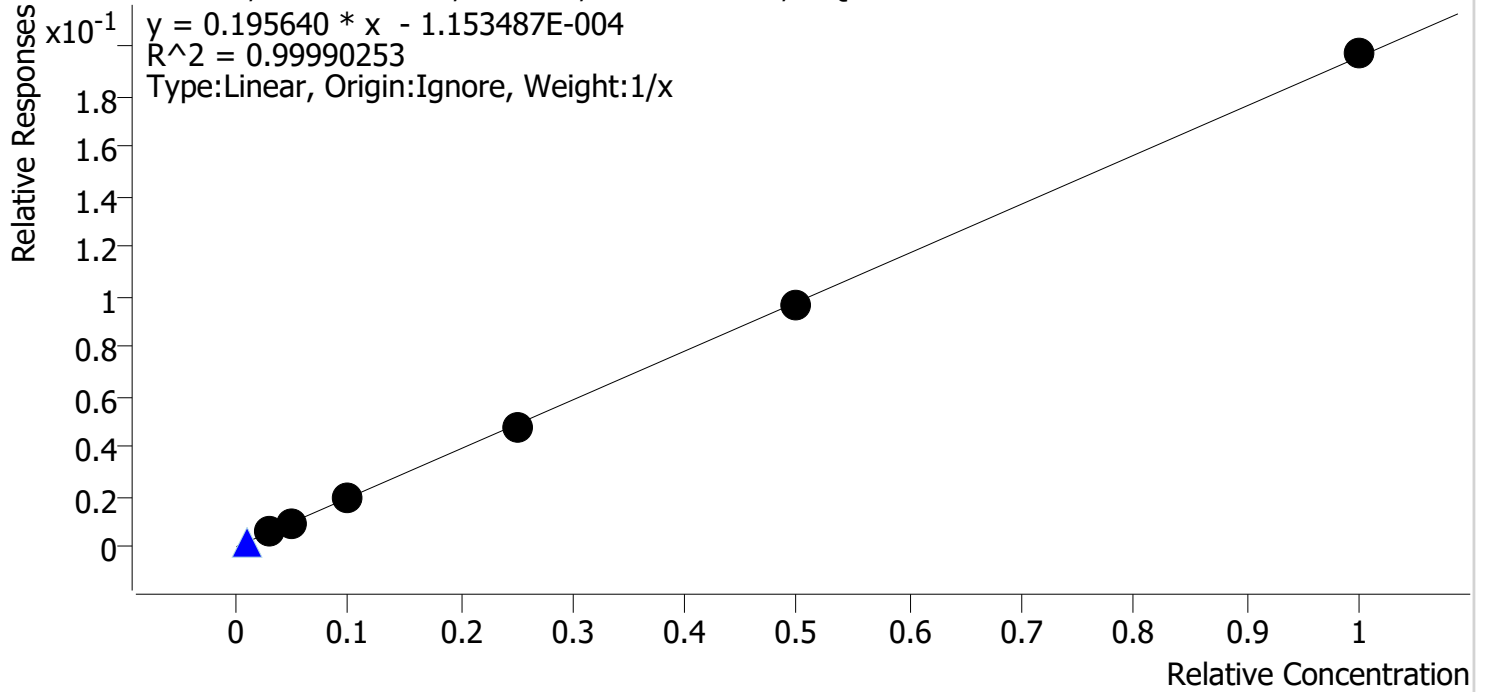
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	20.0	20.1	100.4
cal 4	4	✓	50.0	48.6	97.2
cal 5	5	✓	75.0	73.5	98.0
cal-6	6	✓	100.0	99.6	99.6
cal-7	7	✓	250.0	252.8	101.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Last Cal. Update 11/2/2020 11:05 AM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-d3

THC-OH - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 1 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 2	2	✓	3.0	3.0	101.1
cal 3	3	✓	5.0	5.1	101.5
cal 4	4	✓	10.0	9.8	98.5
cal 5	5	✓	25.0	24.7	99.0
cal-6	6	✓	50.0	49.6	99.2
cal-7	7	✓	100.0	100.7	100.7

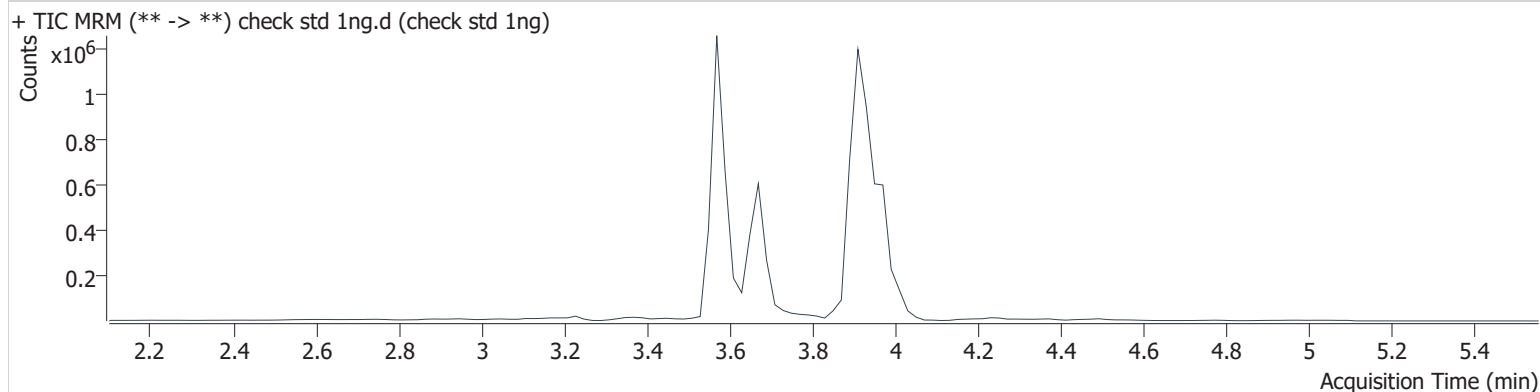
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	check std 1ng.d
Type	QC	Sample	check std 1ng
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:23:40 PM		
Sample Info.			

Sample Chromatogram



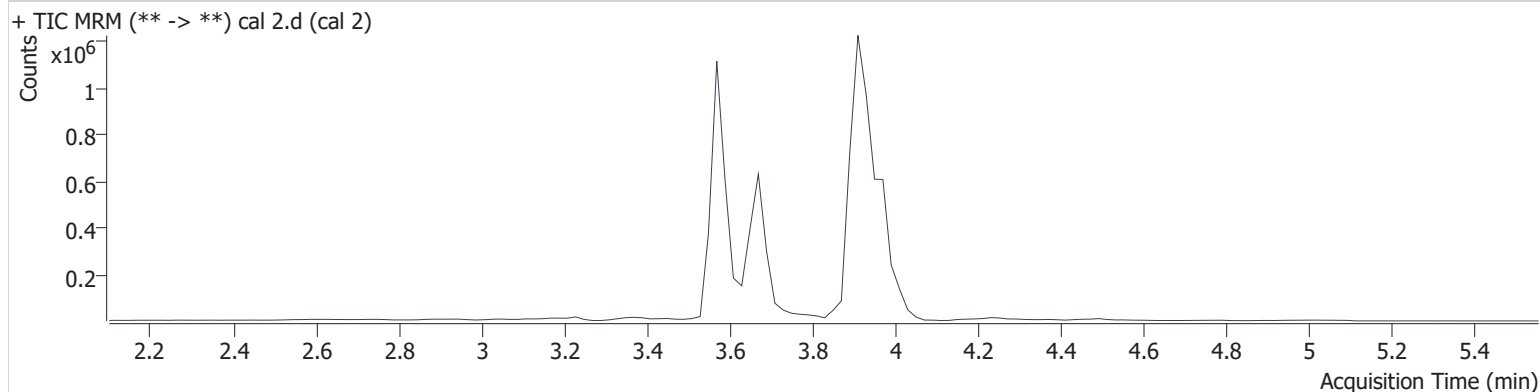
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	6955	897027	1.210 ng/ml Low
THC-COOH	3.672	82154	1190426	5.521 ng/ml
THC-OH	3.578	6242	3179101	1.063 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal 2.d
Type	Cal	Sample	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-B1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:30:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	18303	848569	3.023 ng/ml
THC-COOH	3.672	151367	1105842	10.357 ng/ml
THC-OH	3.578	16497	2835466	3.033 ng/ml

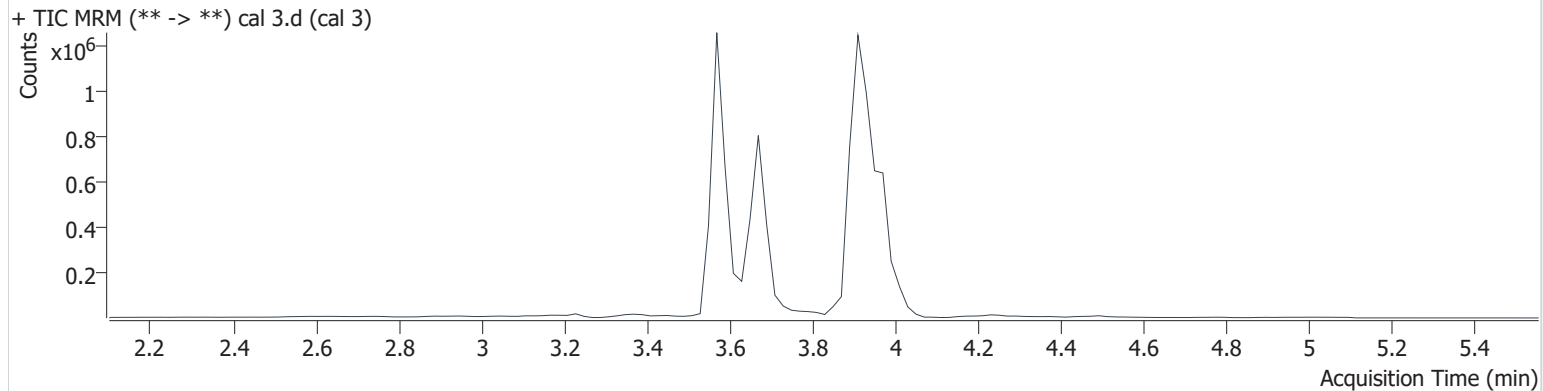
A

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal 3.d
Type	Cal	Sample	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-C1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:36:54 PM		
Sample Info.			

Sample Chromatogram



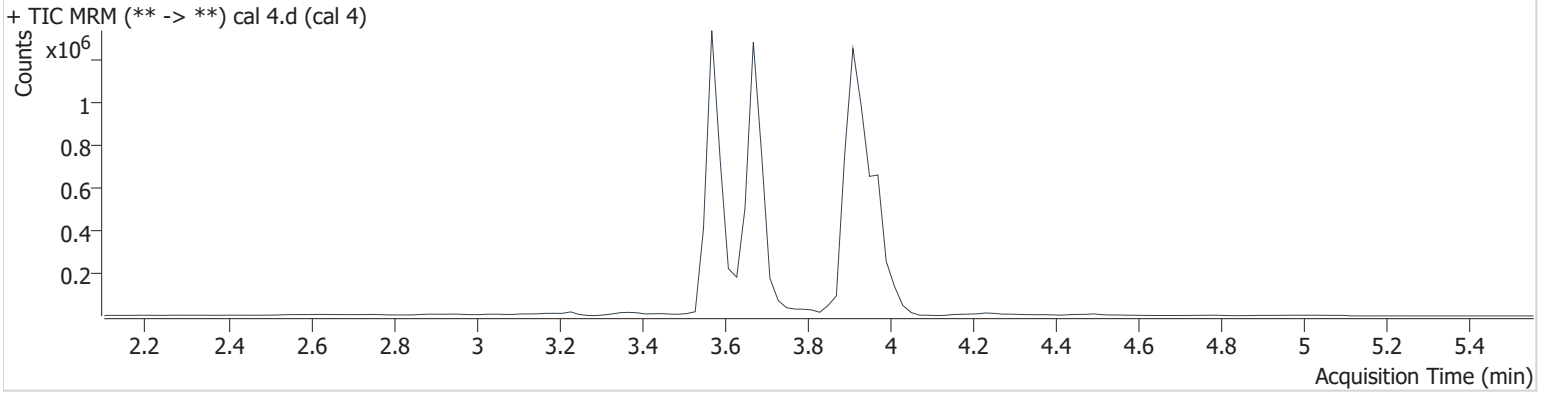
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	33941	897065	5.158 ng/ml
THC-COOH	3.672	307725	1125244	20.090 ng/ml
THC-OH	3.578	29770	3032862	5.076 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal 4.d
Type	Cal	Sample	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-D1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:43:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	66773	912076	9.801 ng/ml
THC-COOH	3.672	762485	1131639	48.614 ng/ml
THC-OH	3.578	58256	3041855	9.848 ng/ml

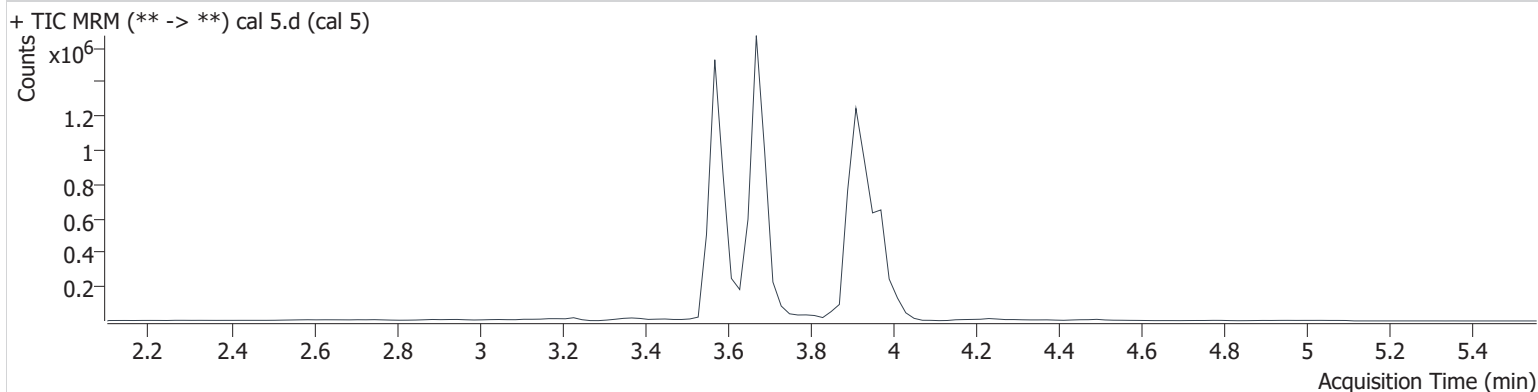
OA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal 5.d
Type	Cal	Sample	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-E1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:50:06 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	151496	824507	24.308 ng/ml
THC-COOH	3.672	1129824	1104464	73.495 ng/ml
THC-OH	3.578	137860	2854405	24.746 ng/ml

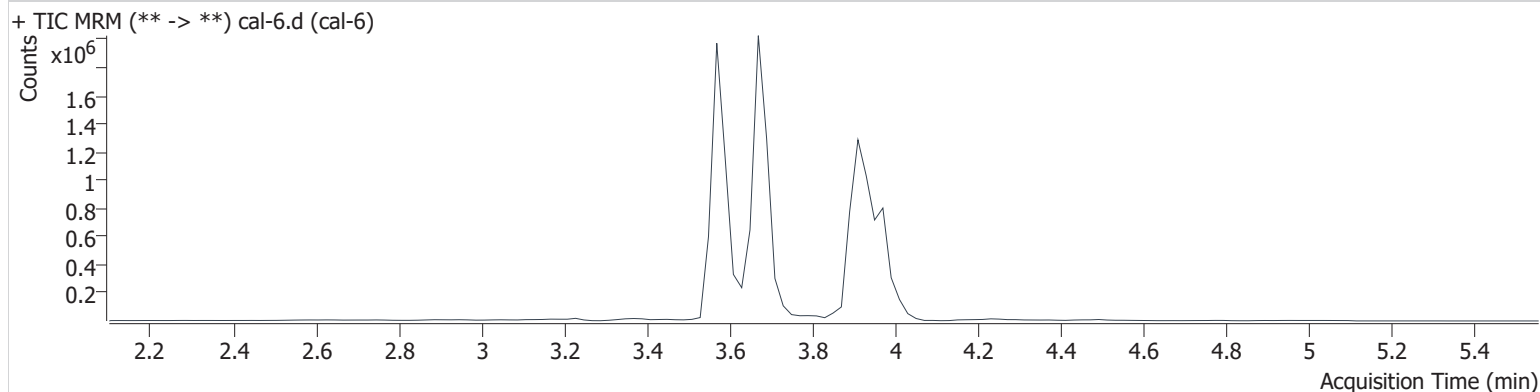
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal-6.d
Type	Cal	Sample	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 6:56:42 PM		
Sample Info.			

Sample Chromatogram



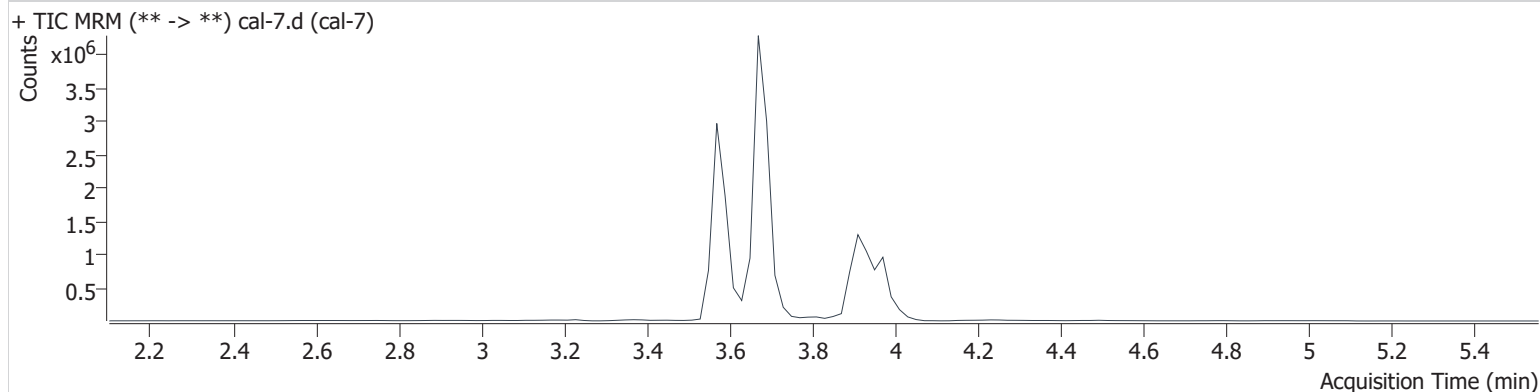
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	330730	869105	50.137 ng/ml
THC-COOH	3.672	1510489	1086797	99.638 ng/ml
THC-OH	3.578	277772	2864671	49.622 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 103020\QuantResults\cann.batch.bin
Calibration Last Update 11/2/2020 11:05:40 AM

Instrument	69679	Data File	cal-7.d
Type	Cal	Sample	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-G1	Comment	
Injection Volume	5		
Acq. Date-Time	10/30/2020 7:03:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	612734	801131	100.575 ng/ml
THC-COOH	3.672	3737720	1056030	252.806 ng/ml
THC-OH	3.578	568683	2888988	100.675 ng/ml