















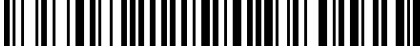


**Worklist: 3870**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u>                               |   |
|-----------------|-------------|------------------|--|---|
| C2019-2160      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2162      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2196      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2197      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2217      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2218      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2236      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2251      | 2           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2254      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |    |
| C2019-2256      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |   |
| C2019-2289      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2290      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2301      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2302      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2304      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2316      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| C2019-2334      | 1           | BCK              | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |

# AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date: 12/6/19  
Plate lot#: 190725

Analyst: Britany Wylie  
Plate Expiration: 1-25-2020

**Mobile phase A:** 10mM Amm Form  
0.5M Ammonium Hydroxide  
**Blank Blood Lot:** 19H52275  
**LCMS-QQQ ID:** 69679

**Mobile phase B:** 0.1% Formic Acid in MeOH  
Ethyl Acetate LC Methanol  
**Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

## 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. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: 1926134**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer **300 µL of blood** 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 **900 µL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add **900 µL ethyl acetate.**
- 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% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.
- 2. Make necessary changes to integration limits
- 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? (If no is it described in comments?)
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

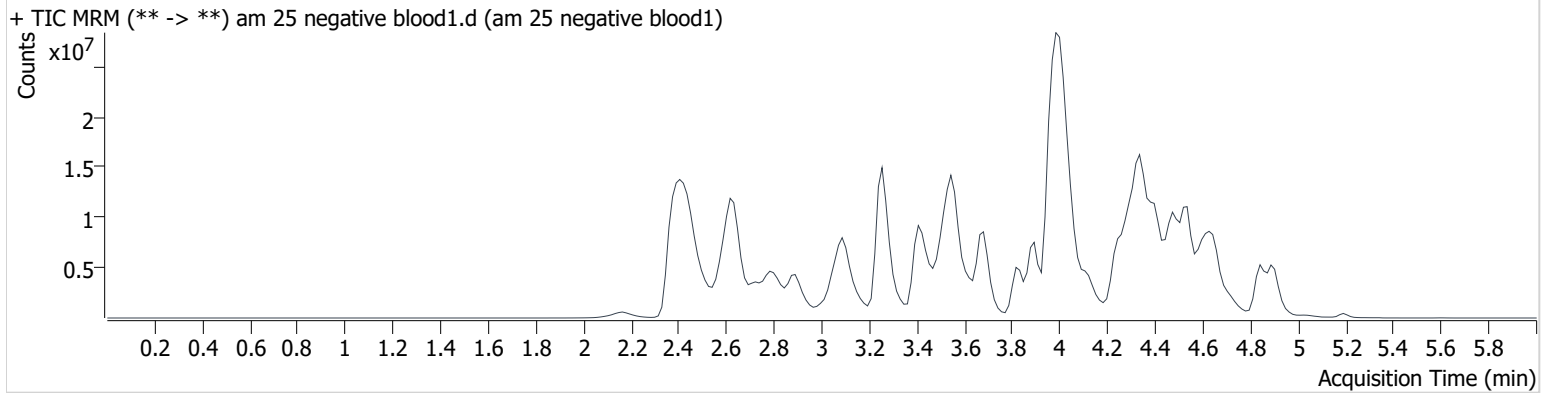
BW

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\worklist 3870 am25-26.batch.bin  
**Calibration Last Update** 12/8/2019 7:31:41 AM

|                         |                       |                  |                         |
|-------------------------|-----------------------|------------------|-------------------------|
| <b>Instrument</b>       | 69679                 | <b>Data File</b> | am 25 negative blood1.d |
| <b>Type</b>             | Sample                | <b>Sample</b>    | am 25 negative blood1   |
| <b>Acq. Method</b>      | am 25 short.m         | <b>Operator</b>  | Britany Wylie           |
| <b>Sample Position</b>  | P2-C1                 | <b>Comment</b>   |                         |
| <b>Injection Volume</b> | 2.5                   |                  |                         |
| <b>Acq. Date-Time</b>   | 12/6/2019 12:59:45 PM |                  |                         |
| <b>Sample Info.</b>     |                       |                  |                         |

## Sample Chromatogram

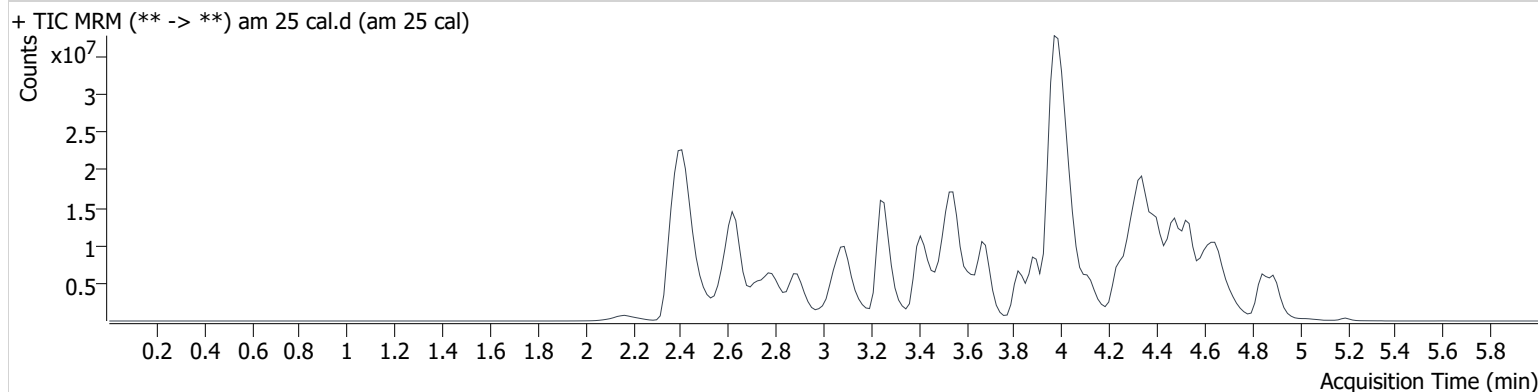


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\worklist 3870 am25-26.batch.bin  
**Calibration Last Update** 12/8/2019 7:31:41 AM

|                         |                       |                  |               |
|-------------------------|-----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                 | <b>Data File</b> | am 25 cal.d   |
| <b>Type</b>             | Cal                   | <b>Sample</b>    | am 25 cal     |
| <b>Acq. Method</b>      | am 25 short.m         | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-A1                 | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2.5                   |                  |               |
| <b>Acq. Date-Time</b>   | 12/6/2019 12:52:34 PM |                  |               |

## Sample Chromatogram



| Name                   | RT    | Resp.   | S/N      | S/N      | ISTD Resp. | Calc. Conc. |
|------------------------|-------|---------|----------|----------|------------|-------------|
| 6-MAM                  | 2.964 | 45559   | 1451.0   | 100.6    | 1386915    | 10.000      |
| 7-aminoclonazepam      | 3.289 | 283094  | 111.4    | 301.2    | 1337650    | 10.000      |
| 7-aminoflunitrazepam   | 3.502 | 1287765 | 616.8    | 208.6    | 8575725    | 10.000      |
| Acetyl Fentanyl        | 4.245 | 374442  | 116.2    | 1288.4   | 24107462   | 10.000      |
| Acetyl Norfentanyl     | 2.609 | 201298  | 5841.9   | 51.4     | 11673931   | 10.000      |
| a-hydroxyalprazolam    | 4.291 | 71381   | 181.7    | 634.2    | 382614     | 10.000      |
| alpha-hydroxymidazolam | 4.396 | 1254611 | 1330.9   | 392360.1 | 8896613    | 10.000      |
| alpha-PVP              | 3.630 | 2789869 | 749.1    | 431.0    | 12839315   | 10.000      |
| Alprazolam             | 4.401 | 846546  | 695.3    | 2248.9   | 3081662    | 10.000      |
| Amitriptyline          | 4.637 | 1352424 | 369.4    | 176806.0 | 6839967    | 10.000      |
| Amphetamine            | 2.644 | 1940218 | 973.3    | 1181.8   | 5974842    | 10.000      |
| Benzoyllecgonine       | 3.014 | 580038  | 731.1    | 253.4    | 2739465    | 10.000      |
| Buprenorphine          | 5.205 | 109944  | 143.1    | 7228.6   | 816534     | 10.000      |
| Bupropion              | 3.949 | 2019333 | 849.8    | 602.8    | 10102103   | 10.000      |
| Carbamazepine          | 3.996 | 2759779 | ∞        | 1145.0   | 16035299   | 10.000      |
| Carisoprodol           | 3.976 | 394674  | 217.9    | 54.2     | 1981904    | 10.000      |
| Chlordiazepoxide       | 4.541 | 142783  | 63.5     | 858.6    | 10828149   | 10.000      |
| Chlorpheniramine       | 3.944 | 8053    | 42.2     | 6697.1   | 38592665   | 10.000      |
| Citalopram             | 4.075 | 2475473 | 309.0    | 313.3    | 11634819   | 10.000      |
| Clonazepam             | 4.230 | 205645  | 184973.9 | 167.3    | 362792     | 10.000      |
| Cocaine                | 3.573 | 3701016 | 1551.4   | 352.9    | 20180322   | 10.000      |
| Codeine                | 2.891 | 300135  | 463.9    | 805.1    | 1569002    | 10.000      |
| Cyclobenzaprine        | 4.499 | 2498134 | 1496.1   | 969.6    | 10723203   | 10.000      |
| Desipramine            | 4.423 | 4249956 | 686.2    | 1735.1   | 21999790   | 10.000      |
| Dextromethorphan       | 4.129 | 1747481 | ∞        | 251.5    | 8372893    | 10.000      |
| Dextrorphan            | 3.275 | 1482108 | 385.0    | 345.2    | 7824096    | 10.000      |
| Diazepam               | 4.666 | 504206  | 742.9    | 614.9    | 2538676    | 10.000      |
| Dihydrocodeine         | 2.633 | 768486  | 525.4    | 428.0    | 4445323    | 10.000      |
| Diphenhydramine        | 4.038 | 6648000 | 2241.0   | 617.4    | 38592665   | 10.000      |
| Doxepin                | 4.296 | 1652274 | 299.5    | ∞        | 9478288    | 10.000      |
| Doxylamine             | 3.533 | 6967260 | 7814.6   | 1777.8   | 33369190   | 10.000      |
| EDDP                   | 3.974 | 4124961 | 15453.3  | 3622.1   | 26337977   | 10.000      |
| Estazolam              | 4.311 | 1740914 | 1294.5   | 636.7    | 4666258    | 10.000      |
| Etizolam               | 4.427 | 135670  | 69861.7  | 11480.0  | 4666258    | 10.000      |

am 25 cal

BW

# AM #25 Multi-Drug Screen Results

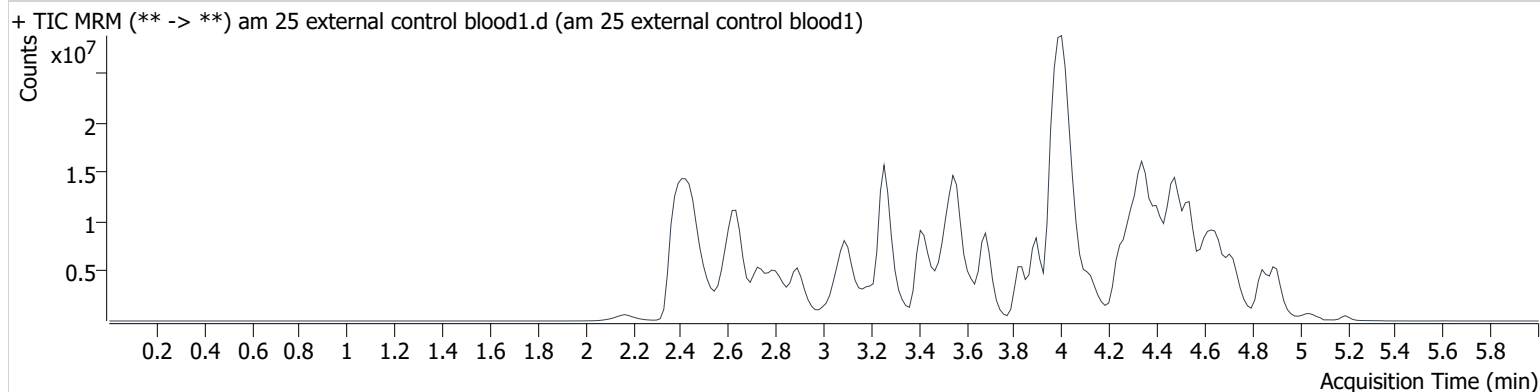
| Name                 | RT    | Resp.    | S/N      | S/N      | ISTD Resp. | Calc. Conc. |
|----------------------|-------|----------|----------|----------|------------|-------------|
| Fentanyl             | 4.490 | 260553   | 1348.7   | 17613.4  | 16696337   | 10.000      |
| Flunitrazepam        | 4.369 | 839073   | 1435.1   | 478.4    | 233559     | 10.000      |
| Fluoxetine           | 4.293 | 3037268  | 459.3    | 2544.5   | 13736603   | 10.000      |
| Flurazepam           | 4.503 | 2053265  | 935.2    | 330.1    | 233559     | 10.000      |
| Hydrocodone          | 3.195 | 838385   | 195.9    | 133.9    | 5893732    | 10.000      |
| Hydromorphone        | 2.455 | 648442   | 318.1    | 366.7    | 2144765    | 10.000      |
| Imipramine           | 4.559 | 4737564  | 391.4    | 516.9    | 19874071   | 10.000      |
| Ketamine             | 3.919 | 2227026  | 1643.0   | 183.4    | 12367163   | 10.000      |
| Lamotrigine          | 3.368 | 240942   | 518.0    | 59420.8  | 8481226    | 10.000      |
| Levamisole           | 3.050 | 2299647  | 9576.4   | 921.8    | 20180322   | 10.000      |
| Lorazepam            | 4.214 | 31676    | 107.2    | 6881.2   | 3081662    | 10.000      |
| Maprotiline          | 4.437 | 414564   | 14.5     | 225.7    | 6839967    | 10.000      |
| MDA                  | 2.792 | 2039747  | 1083.9   | 451.3    | 9217039    | 10.000      |
| MDEA                 | 3.065 | 3400947  | 1074.3   | 335.4    | 15909916   | 10.000      |
| MDMA                 | 2.899 | 3825365  | 607.8    | 645.4    | 2412756    | 10.000      |
| Meperidine           | 3.627 | 1869897  | 212.4    | 491.8    | 8481226    | 10.000      |
| Meprobamate          | 3.356 | 262803   | 533.4    | 502.5    | 1248135    | 10.000      |
| Methadone            | 4.370 | 3980872  | 728.8    | 432.8    | 22037951   | 10.000      |
| Methamphetamine      | 2.765 | 3164670  | 125.1    | 89.2     | 12093006   | 10.000      |
| Methocarbamol        | 3.246 | 107067   | 462.1    | 358.9    | 8481226    | 10.000      |
| Methylphenidate      | 3.415 | 6700818  | 8416.5   | 419.9    | 32201347   | 10.000      |
| Metoprolol           | 3.244 | 453327   | 362.9    | 222492.8 | 8481226    | 10.000      |
| Midazolam            | 4.598 | 482219   | 1266.2   | 1379.5   | 6530346    | 10.000      |
| Mirtazapine          | 4.469 | 2272237  | 579.0    | 1226.7   | 8481226    | 10.000      |
| Mitragynine          | 4.518 | 275111   | 92356.6  | 713.6    | 9478288    | 10.000      |
| Morphine             | 2.230 | 239468   | ∞        | 118.8    | 115912     | 10.000      |
| Norbuprenorphine     | 3.861 | 57939    | 360.7    | 171.4    | 313177     | 10.000      |
| Nordiazepam          | 4.499 | 281604   | 394.7    | 701.3    | 938736     | 10.000      |
| Norfentanyl          | 3.109 | 3860804  | 23856.7  | 851.3    | 18561512   | 10.000      |
| Norhydrocodone       | 2.758 | 37945    | 28.9     | 29.6     | 1440320    | 10.000      |
| Normeperidine        | 3.461 | 2020754  | 1136.8   | 507.9    | 8313940    | 10.000      |
| Noroxycodone         | 2.663 | 785003   | ∞        | 39.4     | 2703357    | 10.000      |
| Nortriptyline        | 4.469 | 1433564  | 3986.7   | 464.9    | 3858610    | 10.000      |
| O-desmethyl-tramadol | 2.639 | 5535011  | 1959.2   | 387.0    | 31058101   | 10.000      |
| Olanzapine           | 4.123 | 303478   | 187.2    | 53.5     | 77484      | 10.000      |
| Oxazepam             | 4.296 | 98315    | 31.1     | 17.9     | 697033     | 10.000      |
| Oxycodone            | 2.843 | 1470347  | 112.5    | 456.1    | 7961530    | 10.000      |
| Oxymorphone          | 2.178 | 762648   | 79.3     | 172.0    | 3253282    | 10.000      |
| Paroxetine           | 4.459 | 337599   | ∞        | 126.5    | 4979981    | 10.000      |
| Phenazepam           | 4.442 | 345931   | 358.0    | 74309.7  | 1418417    | 10.000      |
| Phencyclidine        | 3.841 | 3566373  | 677.8    | 590.3    | 17654629   | 10.000      |
| Phentermine          | 2.917 | 1107759  | 103.6    | 27.6     | 11824543   | 10.000      |
| Phenytion            | 3.886 | 12385    | 75.3     | 8912.3   | 77484      | 10.000      |
| Promethazine         | 4.666 | 5914888  | 274.0    | 256.9    | 24874117   | 10.000      |
| Pseudoephedrine      | 2.414 | 38586880 | 953.9    | 475.7    | 116264341  | 10.000      |
| Quetiapine           | 4.672 | 2856037  | 3425.0   | 407695.0 | 4773194    | 10.000      |
| Sertraline           | 4.710 | 1080494  | 259.5    | 387.0    | 4979981    | 10.000      |
| Sufentanil           | 4.902 | 223365   | 744.9    | 144.6    | 13833177   | 10.000      |
| Tapentadol           | 3.263 | 2721967  | 6763.8   | 1902.7   | 15478539   | 10.000      |
| Temazepam            | 4.464 | 674120   | 280.7    | 27.4     | 3336309    | 10.000      |
| Tramadol             | 3.260 | 5164246  | 1215.3   | 120.0    | 28318457   | 10.000      |
| Trazodone            | 4.857 | 3308214  | 775.3    | 8875.2   | 16333840   | 10.000      |
| Venlafaxine          | 3.684 | 5241533  | 2217.5   | 368.8    | 27525562   | 10.000      |
| Zaleplon             | 4.125 | 967354   | 738188.7 | 300.4    | 2770356    | 10.000      |
| Zolpidem             | 4.340 | 5392069  | 2102.8   | 962.9    | 28834743   | 10.000      |
| Zopiclone            | 4.334 | 224803   | 353.9    | 274.4    | 1185756    | 10.000      |

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\worklist 3870 am25-26.batch.bin  
**Calibration Last Update** 12/8/2019 7:31:41 AM

|                         |                      |                  |                                 |
|-------------------------|----------------------|------------------|---------------------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | am 25 external control blood1.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | am 25 external control blood1   |
| <b>Acq. Method</b>      | am 25 short.m        | <b>Operator</b>  | Britany Wylie                   |
| <b>Sample Position</b>  | P2-D1                | <b>Comment</b>   |                                 |
| <b>Injection Volume</b> | 2.5                  |                  |                                 |
| <b>Acq. Date-Time</b>   | 12/6/2019 1:06:54 PM |                  |                                 |
| <b>Sample Info.</b>     |                      |                  |                                 |

## Sample Chromatogram



| Name          | RT    | Resp.    | S/N     | S/N     | ISTD Resp. | Calc. Conc. |
|---------------|-------|----------|---------|---------|------------|-------------|
| Hydrocodone   | 3.195 | 8132102  | 1195.4  | 784.4   | 6094993    | 93.794      |
| Hydromorphone | 2.471 | 5122465  | ∞       | 350.2   | 2021910    | 83.796      |
| Nortriptyline | 4.469 | 12748292 | 15926.9 | 1538.6  | 4078459    | 84.134      |
| Sertraline    | 4.725 | 10118170 | ∞       | 14762.3 | 5421731    | 86.014      |

Toxicology AM method 25 blood external prep information

working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline  
Stock solution 1mg/ml 100 ul each in 9600ul meOH

ppd 5/20/19: Exp: 5/20/20 lot 52020 by baw

| Drug          | lot        | expiration |
|---------------|------------|------------|
| Hydromorphone | FE04101502 | 6/1/2020   |
| Hydrocodone   | FE09091505 | 9/1/2020   |
| nortriptyline | FN06191503 | 8/1/2020   |
| sertraline    | FN01081501 | 3/1/2020   |

AM 25 control 100 ul working solution (52020) in 9900 ul neg blood

ppd 5/20/19, exp 3/1/20 lot 52019 neg blood lot 19A207P3 by BAW

Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

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

Extraction Date: 12/6/19

Analyst: Britany Wylie

Plate lot#: 190716

Plate Expiration: 01/16/2020

**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:** 19H52275 **Urine Blank:** 8919

**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. Pipette **1000 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: K52558g**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **500 µL 0.1% formic acid in blood** 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: *negative control had minimal internal standard response- sample was reconstituted on 12/9/19 and reinjected.*

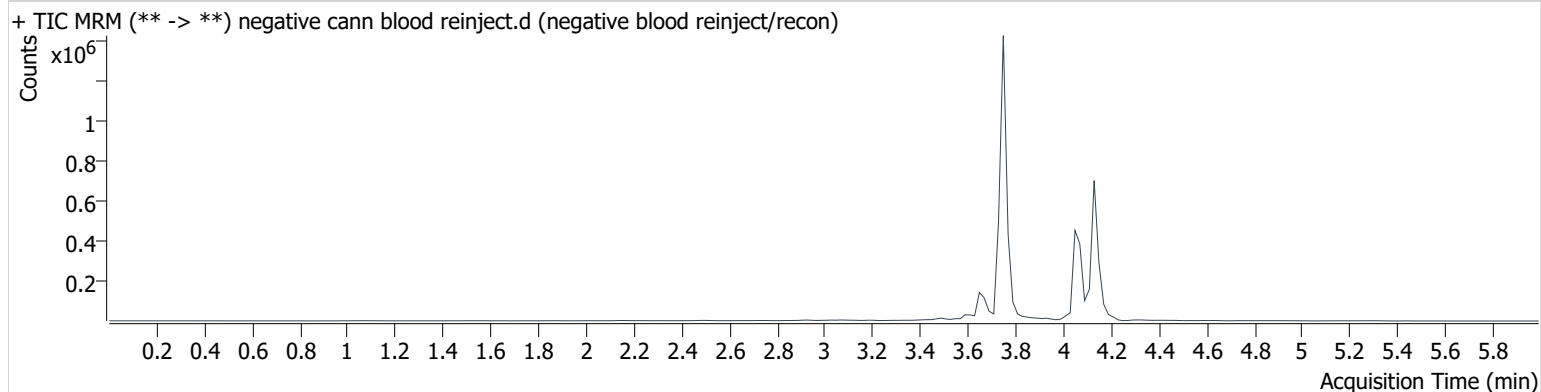


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |                                |
|-------------------------|----------------------|------------------|--------------------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | negative cann blood reinject.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | negative blood reinject/recon  |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie                  |
| <b>Sample Position</b>  | P3-A2                | <b>Comment</b>   |                                |
| <b>Injection Volume</b> | 5                    |                  |                                |
| <b>Acq. Date-Time</b>   | 12/9/2019 7:28:03 AM |                  |                                |
| <b>Sample Info.</b>     |                      |                  |                                |

## Sample Chromatogram

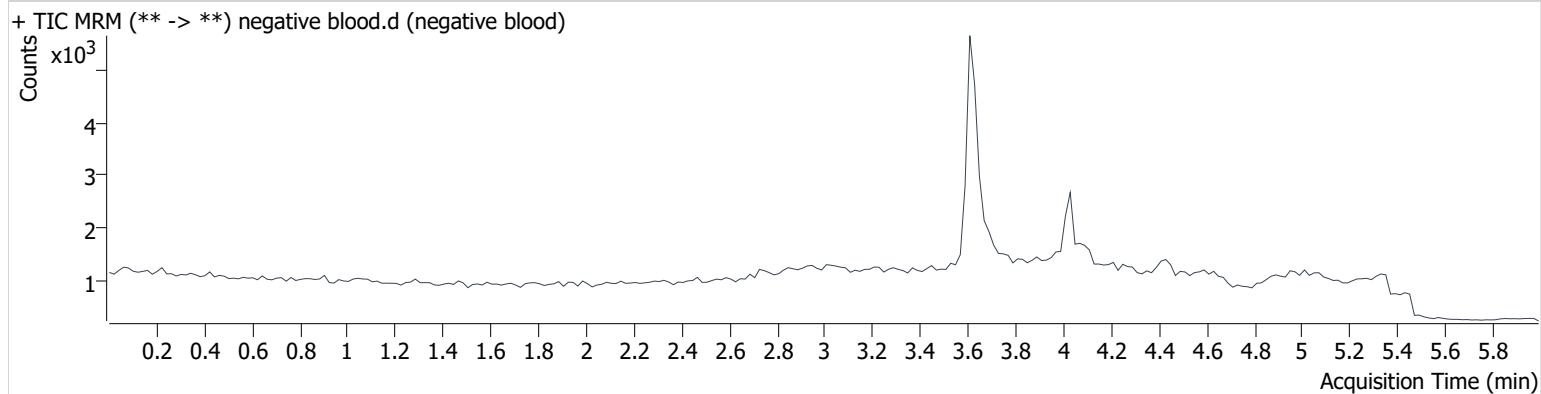


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | negative blood.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | negative blood   |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie    |
| <b>Sample Position</b>  | P3-A2                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 5                    |                  |                  |
| <b>Acq. Date-Time</b>   | 12/7/2019 5:37:35 PM |                  |                  |
| <b>Sample Info.</b>     |                      |                  |                  |

## Sample Chromatogram



minimal internal standard response- sample did not properly inject. this sample was re constituted with 100uL methanol and reinjected.

*BW*  
12-10-19

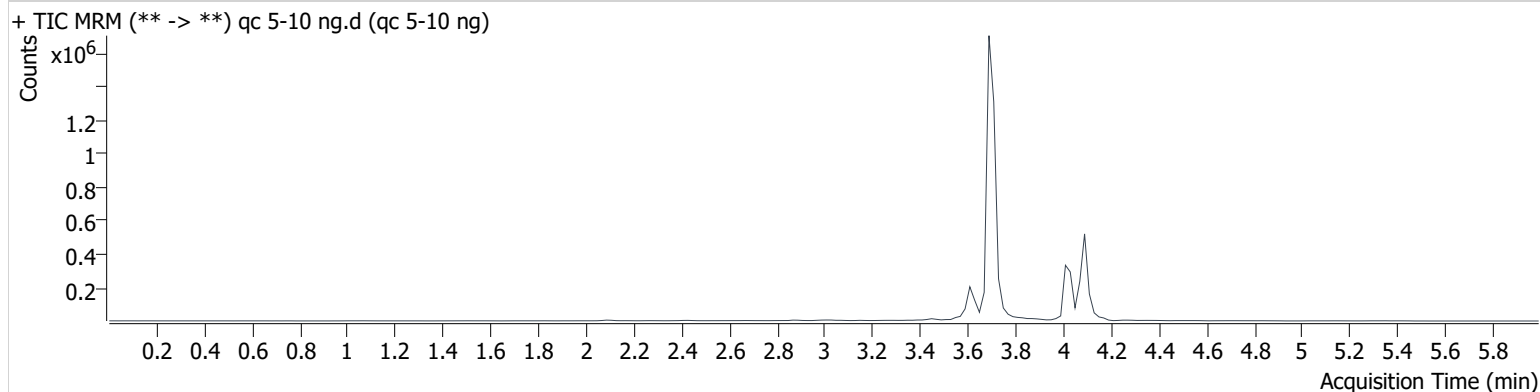
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | qc 5-10 ng.d  |
| <b>Type</b>             | QC                   | <b>Sample</b>    | qc 5-10 ng    |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-H1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 5:30:58 PM |                  |               |

**Sample Info.**

## Sample Chromatogram

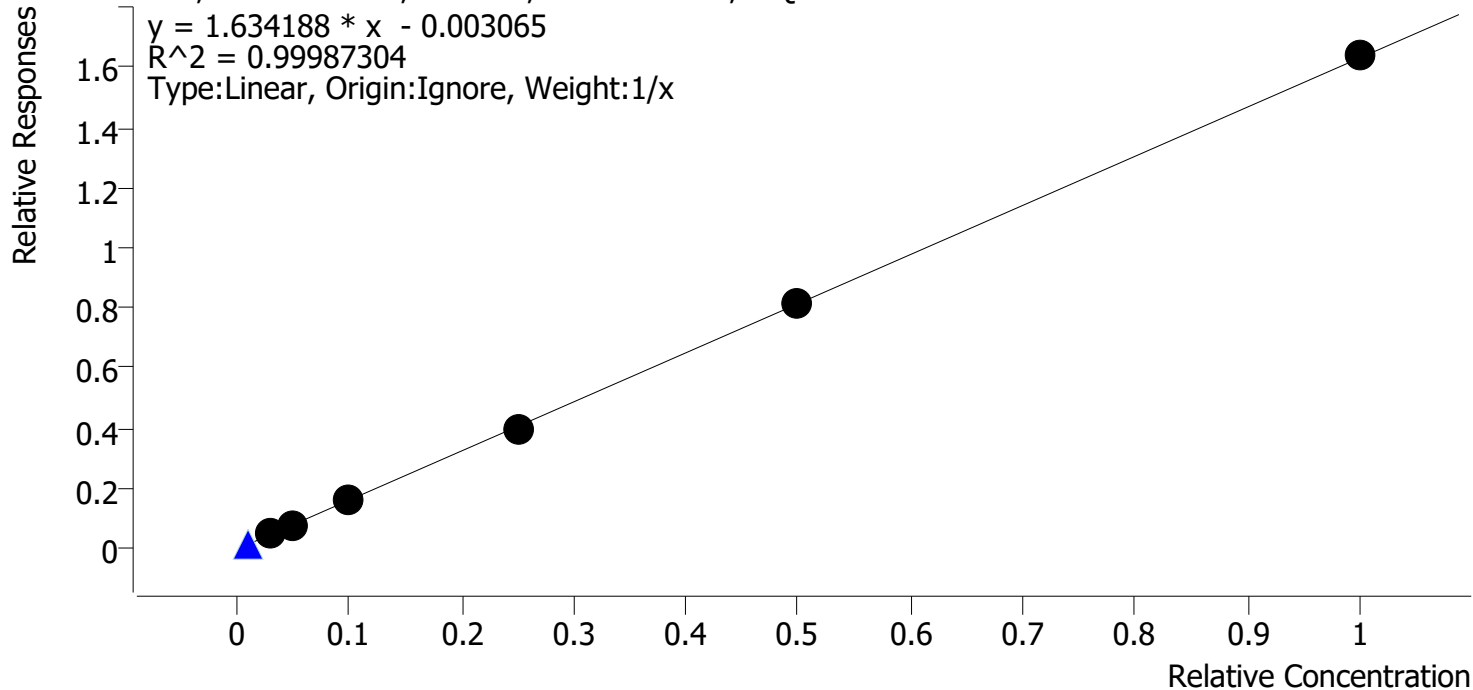


| Name     | RT    | Resp. | ISTD Resp. | Final Conc.  |
|----------|-------|-------|------------|--------------|
| THC      | 4.100 | 71632 | 1033918    | 4.427 ng/ml  |
| THC-COOH | 3.630 | 70491 | 352995     | 15.139 ng/ml |
| THC-OH   | 3.696 | 30593 | 4009055    | 5.121 ng/ml  |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 12/9/2019 7:37 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

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



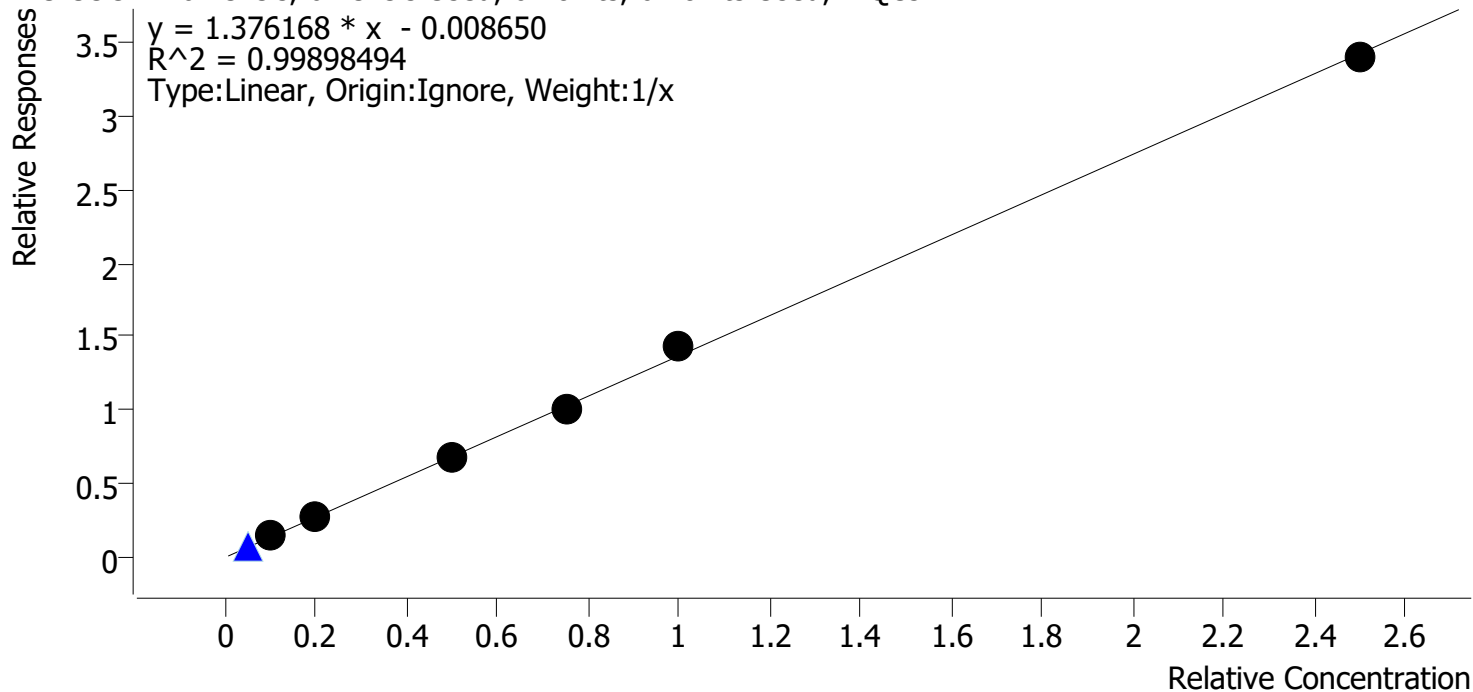
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 2  | 2     | ✓       | 3.0                    | 3.1                 | 103.2    |
| cal 3  | 3     | ✓       | 5.0                    | 4.9                 | 97.2     |
| cal 4  | 4     | ✓       | 10.0                   | 10.1                | 101.0    |
| cal 5  | 5     | ✓       | 25.0                   | 24.6                | 98.2     |
| cal-6  | 6     | ✓       | 50.0                   | 49.9                | 99.9     |
| cal-7  | 7     | ✓       | 100.0                  | 100.4               | 100.4    |

BW

# Compound Calibration Report

|                         |  |                          |             |
|-------------------------|--|--------------------------|-------------|
| <b>Batch results</b>    | D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin |                          |             |
| <b>Last Cal. Update</b> | 12/9/2019 7:37 AM  |                          |             |
| <b>Analyst Name</b>     | ISP\datastor   |                          |             |
| <b>Analyte</b>          | THC-COOH   | <b>Internal Standard</b> | THC-COOH-d9 |

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



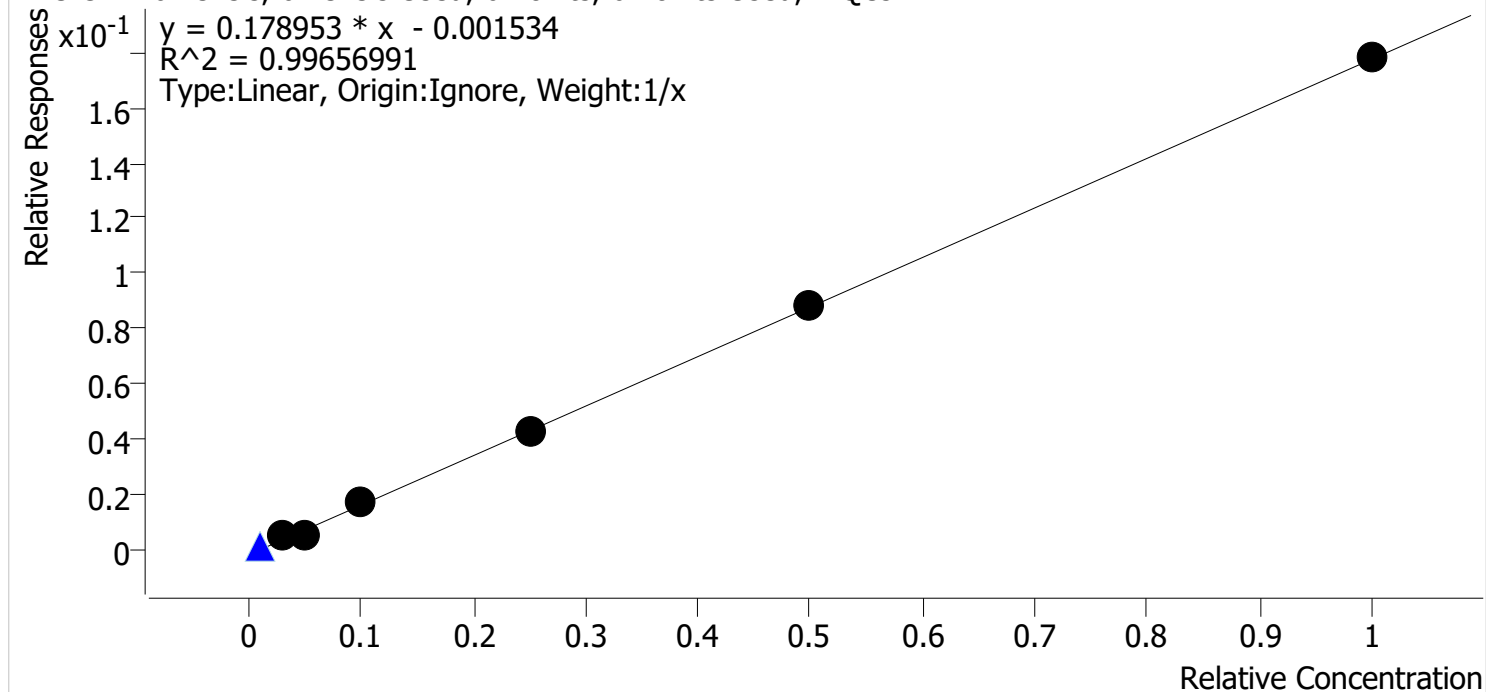
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 2  | 2     | ✓       | 10.0                   | 10.3                | 103.4    |
| cal 3  | 3     | ✓       | 20.0                   | 19.4                | 96.8     |
| cal 4  | 4     | ✓       | 50.0                   | 48.7                | 97.4     |
| cal 5  | 5     | ✓       | 75.0                   | 73.9                | 98.5     |
| cal-6  | 6     | ✓       | 100.0                  | 104.8               | 104.8    |
| cal-7  | 7     | ✓       | 250.0                  | 247.9               | 99.2     |

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 12/9/2019 7:37 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                    | 3.6                 | 121.5    |
| cal 3  | 3     | ✓       | 5.0                    | 3.7                 | 74.4     |
| cal 4  | 4     | ✓       | 10.0                   | 10.4                | 104.4    |
| cal 5  | 5     | ✓       | 25.0                   | 24.8                | 99.3     |
| cal-6  | 6     | ✓       | 50.0                   | 50.1                | 100.2    |
| cal-7  | 7     | ✓       | 100.0                  | 100.3               | 100.3    |

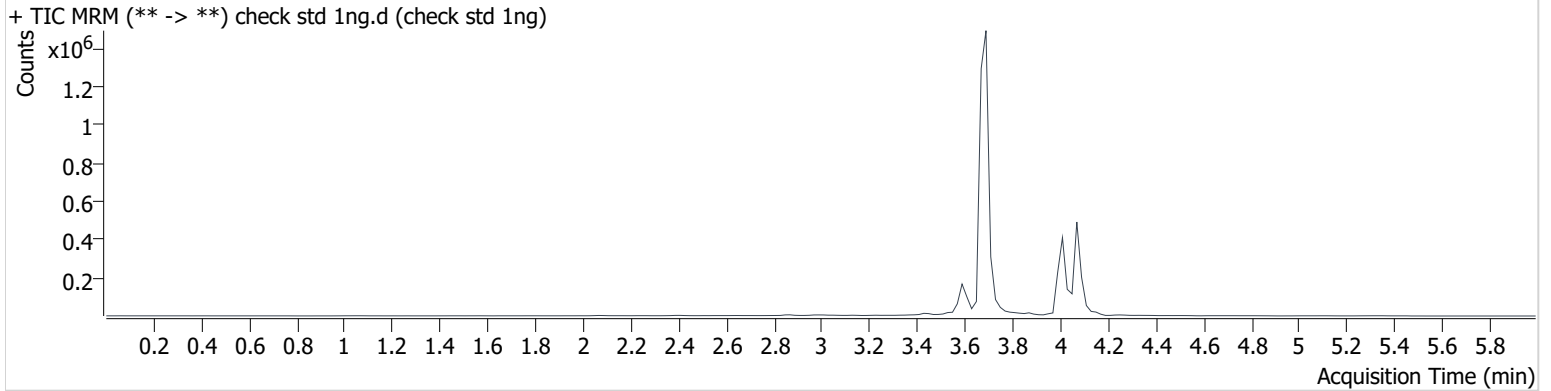
BW

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |                 |
|-------------------------|----------------------|------------------|-----------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | check std 1ng.d |
| <b>Type</b>             | QC                   | <b>Sample</b>    | check std 1ng   |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie   |
| <b>Sample Position</b>  | P3-G1                | <b>Comment</b>   |                 |
| <b>Injection Volume</b> | 5                    |                  |                 |
| <b>Acq. Date-Time</b>   | 12/7/2019 4:38:10 PM |                  |                 |

**Sample Chromatogram**



| Name     | RT    | Resp. | ISTD Resp. | Final Conc. |            |
|----------|-------|-------|------------|-------------|------------|
| THC      | 4.080 | 14749 | 950110     | 1.137 ng/ml | <b>Low</b> |
| THC-COOH | 3.610 | 25489 | 361470     | 5.752 ng/ml | <b>Low</b> |
| THC-OH   | 3.696 | 6765  | 3892801    | 1.828 ng/ml | <b>Low</b> |

*BW*

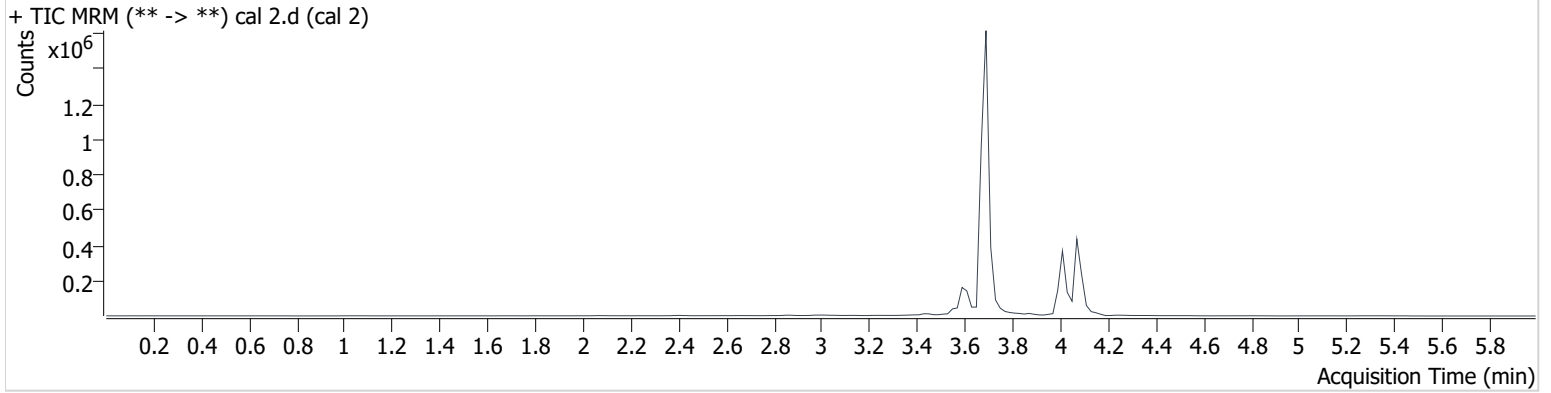
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 2.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 2         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-F1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 4:44:47 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp. | ISTD Resp. | Final Conc.  |
|----------|-------|-------|------------|--------------|
| THC      | 4.080 | 41445 | 871639     | 3.097 ng/ml  |
| THC-COOH | 3.610 | 47406 | 354783     | 10.338 ng/ml |
| THC-OH   | 3.696 | 17925 | 3593926    | 3.644 ng/ml  |

BW



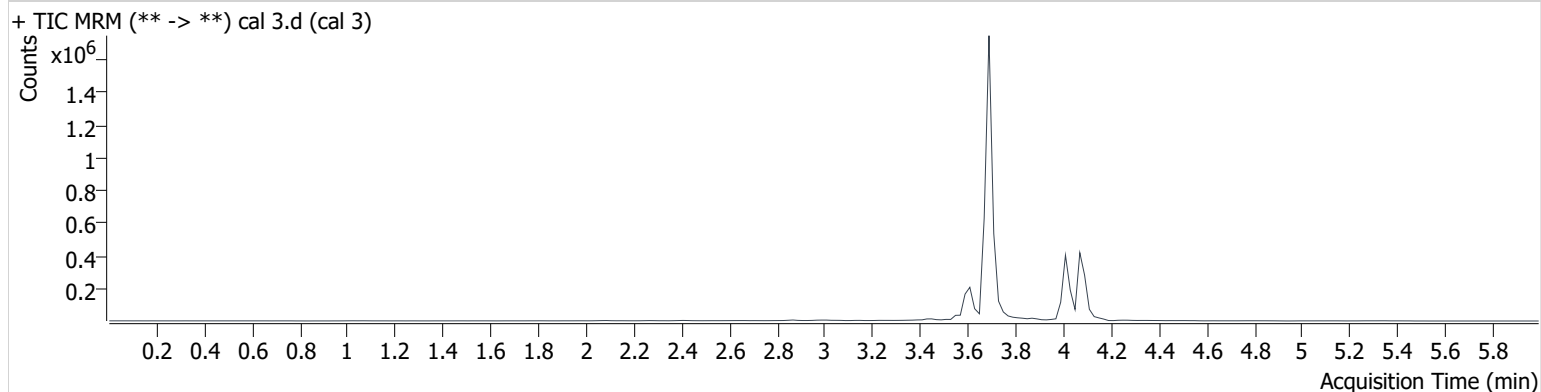
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 3.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 3         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-E1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 4:51:24 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp. | ISTD Resp. | Final Conc.  |
|----------|-------|-------|------------|--------------|
| THC      | 4.080 | 65507 | 857559     | 4.862 ng/ml  |
| THC-COOH | 3.610 | 92122 | 357532     | 19.352 ng/ml |
| THC-OH   | 3.676 | 17874 | 3489544    | 3.719 ng/ml  |

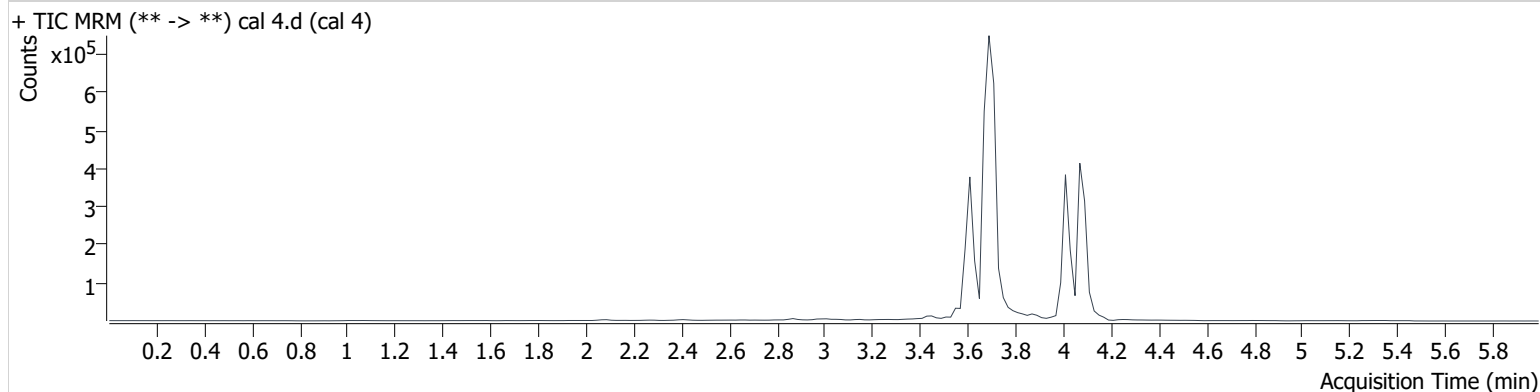
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 4.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 4         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-D1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 4:58:01 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp.  | ISTD Resp. | Final Conc.  |
|----------|-------|--------|------------|--------------|
| THC      | 4.080 | 130713 | 807114     | 10.098 ng/ml |
| THC-COOH | 3.610 | 234929 | 355267     | 48.681 ng/ml |
| THC-OH   | 3.716 | 34991  | 2040335    | 10.441 ng/ml |

BW

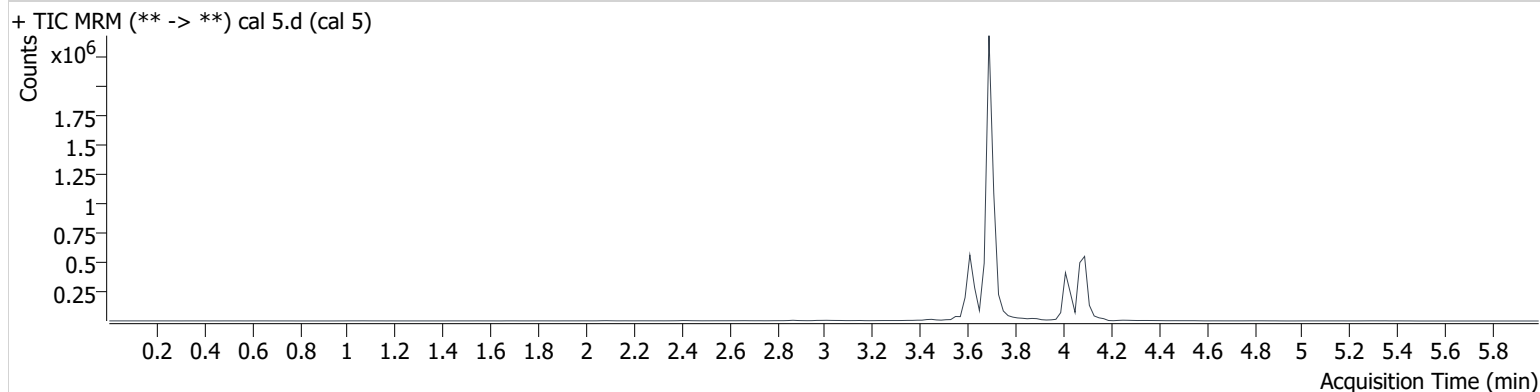
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 5.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 5         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-C1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 5:04:37 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp.  | ISTD Resp. | Final Conc.  |
|----------|-------|--------|------------|--------------|
| THC      | 4.100 | 383956 | 964349     | 24.551 ng/ml |
| THC-COOH | 3.610 | 388247 | 384977     | 73.911 ng/ml |
| THC-OH   | 3.696 | 159849 | 3728256    | 24.816 ng/ml |

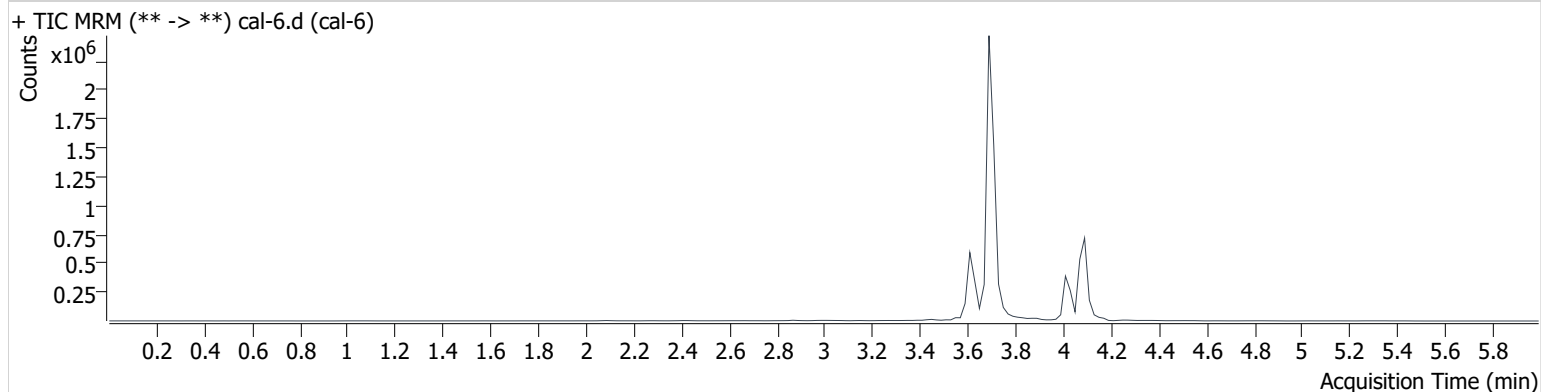
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal-6.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal-6         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-B1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 5:11:14 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp.  | ISTD Resp. | Final Conc.   |
|----------|-------|--------|------------|---------------|
| THC      | 4.100 | 711699 | 875233     | 49.946 ng/ml  |
| THC-COOH | 3.610 | 458645 | 320015     | 104.773 ng/ml |
| THC-OH   | 3.696 | 280181 | 3180501    | 50.084 ng/ml  |

BW

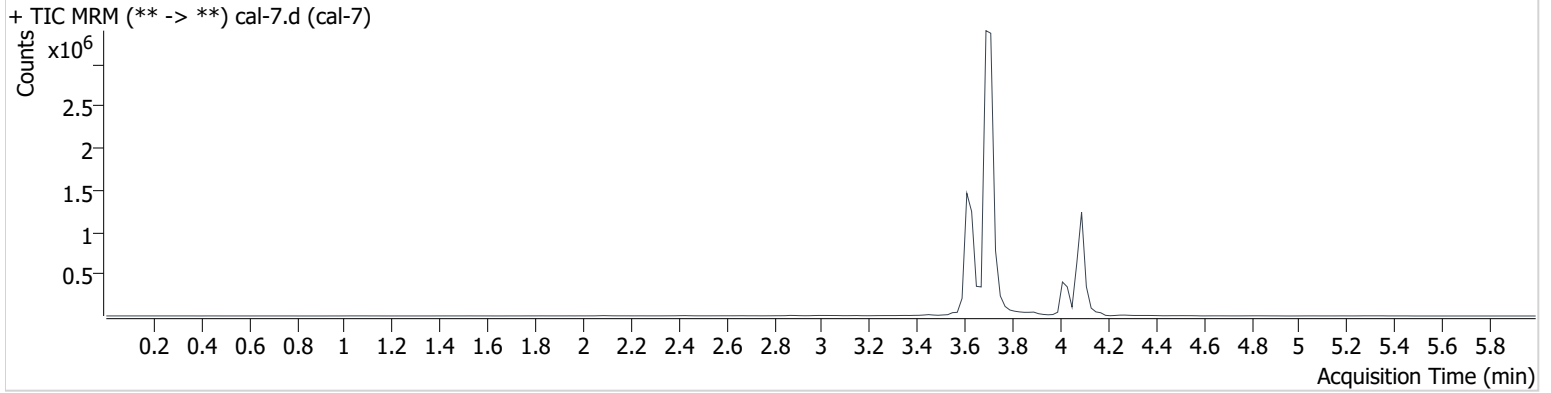
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\am 25-26\120619\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 12/9/2019 7:37:14 AM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal-7.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal-7         |
| <b>Acq. Method</b>      | am 26 cann screen.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P3-A1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 5                    |                  |               |
| <b>Acq. Date-Time</b>   | 12/7/2019 5:17:51 PM |                  |               |

**Sample Info.**

## Sample Chromatogram



| Name     | RT    | Resp.   | ISTD Resp. | Final Conc.   |
|----------|-------|---------|------------|---------------|
| THC      | 4.100 | 1475518 | 900585     | 100.445 ng/ml |
| THC-COOH | 3.610 | 1368089 | 401966     | 247.946 ng/ml |
| THC-OH   | 3.696 | 651646  | 3662023    | 100.295 ng/ml |

BW