

REVIEWED

By Tamara Salazar at 11:28 am, Jul 26, 2021







7/20/2021

Worklist: 5113

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|------------------|--|--|
| M2021-2376 | 4 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2435 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2691 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2803 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2804 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2820 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2839 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2946 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-2948 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| M2021-3160 | 3 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-1658 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-1849 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2175 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2306 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2307 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2343 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2344 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2359 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2367 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2378 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |
| P2021-2380 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ | |

Worklist: 5113

SC

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|------------------|--|---|
| P2021-2381 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2021-2382 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2021-2385 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2021-2406 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2021-2418 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2021-2420 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |

SC

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

Extraction Date: 07/20/21
Plate lot#: IDP-120-210611

Analyst: Sarah Collins
Retest Date: 12/11/21

Mobile phase A: 10mM Amm Form
Instant Buffer I

Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

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. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.
- 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.
Pipette ID: #16
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300 uL
- 8. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right).
- 9. Wait 5 minutes.
- 10. Add **900uL ethyl acetate.**
- 11. Wait 5 minutes.
- 12. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 13. Add **900uL ethyl acetate.**
- 14. Wait 5 minutes.
- 15. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
- 17. Reconstitute in **100µL 20% 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 of 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

SC

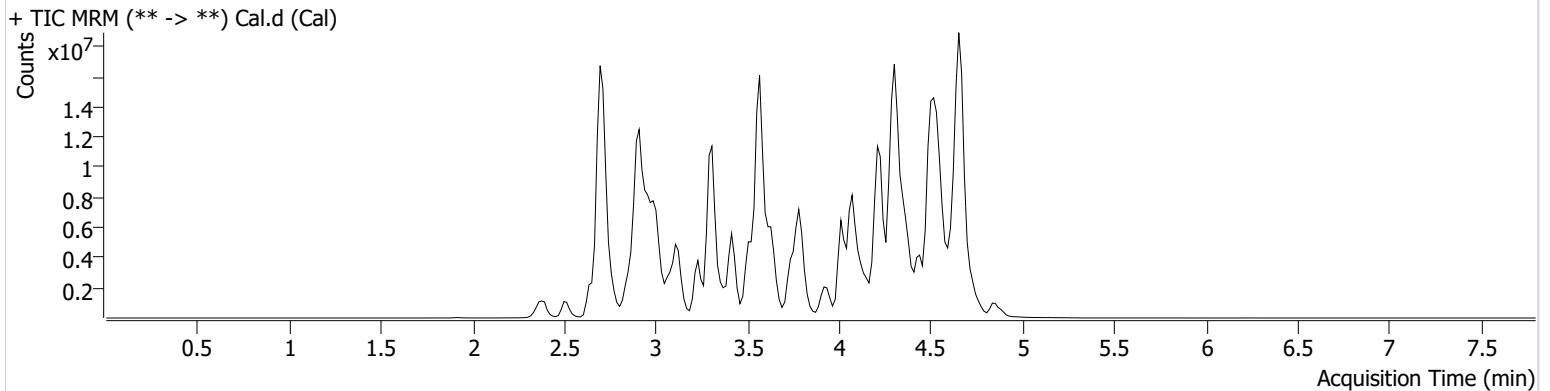
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 7/22/2021 11:06:40 AM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | Cal.d |
| Type | Cal | Sample | Cal |
| Acq. Method | AM 25 MDS.m | Operator | Sarah Collins |
| Sample Position | P2-A1 | Comment | |
| Injection Volume | 5 | | |
| Acq. Date-Time | 7/20/2021 7:00:17 PM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|------------------------|-------|----------|------------|------------|------------|-------------|
| 6-MAM | 2.922 | 70008 | 74936.61 | 60077.14 | 2249887 | 10.0000 |
| 7-aminoclonazepam | 3.584 | 1743791 | 8445025.20 | 250.79 | 11701865 | 10.0000 |
| 7-aminoflunitrazepam | 3.783 | 4932783 | 24066.95 | 952.39 | 11701865 | 10.0000 |
| Acetyl Fentanyl | 3.856 | 64988 | 23.64 | 36810.61 | 27397814 | 10.0000 |
| Acetyl Norfentanyl | 2.886 | 418848 | 3360.12 | 992.40 | 27397814 | 10.0000 |
| a-hydroxyalprazolam | 4.515 | 691414 | 8808.95 | 506368.40 | 11701865 | 10.0000 |
| alpha-hydroxymidazolam | 4.591 | 2187183 | 244.91 | 43146.58 | 11701865 | 10.0000 |
| Alpha-PHP | 3.819 | 1749999 | 14529.46 | 4841.88 | 27397814 | 10.0000 |
| alpha-PVP | 3.544 | 3330649 | 416.60 | 237.57 | 4855024 | 10.0000 |
| Alprazolam | 4.626 | 5150389 | 527.49 | 1075.56 | 34984536 | 10.0000 |
| Amitriptyline | 4.431 | 309575 | 28.33 | 178.64 | 1312421 | 10.0000 |
| Amphetamine | 2.890 | 1867304 | 341.59 | 454.63 | 4855024 | 10.0000 |
| Benzoylcegonine | 3.385 | 522772 | 452693.52 | 52.61 | 909789 | 10.0000 |
| Brompheniramine | 4.026 | 22347 | 328.90 | 344.64 | 14959513 | 10.0000 |
| Buprenorphine | 4.573 | 208882 | 142467.59 | 19511.52 | 847981 | 10.0000 |
| Bupropion | 3.758 | 2117994 | 1586.46 | 450.96 | 8301604 | 10.0000 |
| Carbamazepine | 4.235 | 18768872 | ∞ | 1591.16 | 1497812 | 10.0000 |
| Carisoprodol | 4.217 | 2408401 | 1417914.13 | 71.59 | 15048528 | 10.0000 |
| Chlordiazepoxide | 4.735 | 1835720 | 3988.44 | 1069.33 | 34984536 | 10.0000 |
| Chlorpheniramine | 3.939 | 1843003 | 82.58 | 40.79 | 14959513 | 10.0000 |
| Citalopram | 4.055 | 931445 | 327.63 | 294999.72 | 14959513 | 10.0000 |
| Clomipramine | 4.624 | 603838 | 377278.63 | 2827.05 | 14959513 | 10.0000 |
| Clonazepam | 4.440 | 3165930 | 501.10 | 723.47 | 34984536 | 10.0000 |
| Clonazolam | 4.375 | 3577493 | 2149585.26 | 1162425.26 | 34984536 | 10.0000 |
| Cocaethylene | 3.780 | 3103798 | 4239.35 | 1746.20 | 22424866 | 10.0000 |
| Cocaine | 3.567 | 4574067 | 21564.97 | 704166.14 | 22424866 | 10.0000 |
| Codeine | 2.836 | 419344 | 508305.26 | 1108.39 | 11980478 | 10.0000 |
| Cyclobenzaprine | 4.339 | 426706 | 222.99 | 35.39 | 1312421 | 10.0000 |
| Desipramine | 4.370 | 791911 | 281.93 | 232.47 | 1312421 | 10.0000 |
| Dextromethorphan | 4.078 | 381651 | 433.68 | 112374.33 | 2129714 | 10.0000 |
| Dextrorphan | 3.372 | 1558591 | 796.71 | 415.79 | 2129714 | 10.0000 |
| Diazepam | 4.843 | 1447742 | 704.19 | 1179.01 | 34984536 | 10.0000 |
| Dihydrocodeine | 2.759 | 1327974 | 843.16 | 1552.60 | 11980478 | 10.0000 |
| Diphenhydramine | 4.017 | 1980687 | 1045.83 | 325.66 | 14959513 | 10.0000 |

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AM #25 Multi-Drug Screen Results



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|----------------------|-------|----------|------------|------------|------------|-------------|
| Doxepin | 4.138 | 328228 | 169.71 | 29.68 | 6545992 | 10.0000 |
| Doxylamine | 3.632 | 6248544 | 205.29 | 1162.71 | 2129714 | 10.0000 |
| EDDP | 4.076 | 615463 | 210.74 | 476.60 | 1532799 | 10.0000 |
| Estazolam | 4.535 | 12135644 | 1315.77 | 1321.66 | 34984536 | 10.0000 |
| Etizolam | 4.636 | 780690 | 451024.42 | 1811702.55 | 34984536 | 10.0000 |
| Fentanyl | 4.085 | 47206 | 36.04 | 11136.65 | 3160171 | 10.0000 |
| Flualprazolam | 4.484 | 2066961 | 458.91 | 2311583.18 | 34984536 | 10.0000 |
| Flunitrazepam | 4.564 | 5966873 | 1971.34 | 4990.55 | 34984536 | 10.0000 |
| Fluoxetine | 4.319 | 465111 | 972459.30 | 112.45 | 1337066 | 10.0000 |
| Flurazepam | 4.175 | 910896 | 790309.43 | 129147.87 | 34984536 | 10.0000 |
| Hydrocodone | 3.018 | 1708623 | 759.62 | 277.05 | 11980478 | 10.0000 |
| Hydromorphone | 2.504 | 1835858 | 1797618.80 | 39518.37 | 250696 | 10.0000 |
| Imipramine | 4.383 | 914411 | 317.69 | 481.13 | 1312421 | 10.0000 |
| Ketamine | 3.513 | 4252997 | 54741.59 | 173.89 | 18652085 | 10.0000 |
| Lamotrigine | 3.587 | 320240 | 197.99 | 2822.94 | 14959513 | 10.0000 |
| Levamisole | 2.978 | 3036317 | 12977.17 | 332.78 | 22424866 | 10.0000 |
| Levetiracetam | 2.644 | 2384578 | 906.49 | 1171.29 | 14959513 | 10.0000 |
| Lorazepam | 4.439 | 1133653 | 622.84 | ∞ | 34984536 | 10.0000 |
| Maprotiline | 4.431 | 239689 | 41.60 | 22819.50 | 1312421 | 10.0000 |
| MDA | 2.994 | 1666237 | 1469.37 | 65.19 | 12513253 | 10.0000 |
| MDEA | 3.223 | 2507155 | 608.34 | 340.06 | 12513253 | 10.0000 |
| MDMA | 3.085 | 3385444 | 649.36 | 972.75 | 12513253 | 10.0000 |
| Meperidine | 3.588 | 912876 | 225.45 | 190.11 | 2129714 | 10.0000 |
| Meprobamate | 3.652 | 1474957 | 215765.42 | 2771.08 | 15048528 | 10.0000 |
| Methadone | 4.380 | 1113839 | 708.75 | 197.64 | 1532799 | 10.0000 |
| Methamphetamine | 2.996 | 2604196 | 153.05 | 2325.32 | 12513253 | 10.0000 |
| Methocarbamol | 3.573 | 707191 | 489.32 | 471.22 | 1532799 | 10.0000 |
| Methylphenidate | 3.513 | 5697435 | 402.39 | 1472.05 | 11741522 | 10.0000 |
| Metoprolol | 3.433 | 559655 | 364.40 | 463.95 | 2129714 | 10.0000 |
| Midazolam | 4.760 | 598553 | 1098.13 | 372396.69 | 34984536 | 10.0000 |
| Mirtazapine | 3.939 | 932835 | 403291.95 | 8930.57 | 2129714 | 10.0000 |
| Mitragynine | 4.190 | 58470 | 33757.15 | 1989.13 | 2129714 | 10.0000 |
| Morphine | 2.352 | 336638 | 582.14 | 476.11 | 250696 | 10.0000 |
| Norbuprenorphine | 3.822 | 18467 | 12489.56 | 35701.92 | 847981 | 10.0000 |
| Nordiazepam | 4.692 | 2881431 | 3020.05 | 280.20 | 34984536 | 10.0000 |
| Norfentanyl | 3.313 | 6569904 | 783.25 | 718.89 | 27397814 | 10.0000 |
| Norhydrocodone | 2.929 | 29064 | 23.99 | 23.26 | 250696 | 10.0000 |
| Norketamine | 3.606 | 695542 | 159.45 | 2356340.75 | 18652085 | 10.0000 |
| Normeperidine | 3.590 | 611577 | 447.48 | 227.24 | 14959513 | 10.0000 |
| Noroxycodone | 2.881 | 1427195 | 126.12 | 106.72 | 18652085 | 10.0000 |
| Nortriptyline | 4.417 | 288614 | 620.16 | 43.99 | 1312421 | 10.0000 |
| O-desmethyl-tramadol | 2.915 | 9582620 | 33307.85 | 215.70 | 14959513 | 10.0000 |
| Olanzapine | 3.812 | 320106 | 214163.80 | 238.54 | 1497812 | 10.0000 |
| Oxazepam | 4.505 | 5091978 | 1417.40 | 175.37 | 24226915 | 10.0000 |
| Oxycodone | 2.924 | 3776363 | 508.98 | 5811.71 | 18652085 | 10.0000 |
| Oxymorphone | 2.378 | 1916644 | 452.86 | 448.16 | 250696 | 10.0000 |
| Paroxetine | 4.331 | 73973 | 363.32 | 15072.18 | 1337066 | 10.0000 |
| Phenazepam | 4.636 | 3996674 | 15201.74 | 6569.06 | 34984536 | 10.0000 |
| Phencyclidine | 3.911 | 1660589 | 3426.66 | 382.38 | 2129714 | 10.0000 |
| Phentermine | 3.149 | 899514 | 195.02 | 9.88 | 11741522 | 10.0000 |
| Phenytoin | 4.126 | 2632292 | 689.12 | 1521.90 | 1497812 | 10.0000 |
| Promethazine | 4.337 | 1142402 | 43756.48 | 84.39 | 14959513 | 10.0000 |
| Pseudoephedrine | 2.705 | 46008129 | 1927.06 | 6598.69 | 12513253 | 10.0000 |
| Quetiapine | 4.451 | 1213441 | 338627.29 | 564366.25 | 42747291 | 10.0000 |
| Sertraline | 4.550 | 268080 | 99159.19 | 1593.77 | 1337066 | 10.0000 |
| Sufentanil | 4.436 | 30259 | 336.81 | 43.25 | 27397814 | 10.0000 |
| Tapentadol | 3.422 | 4076747 | 710.27 | 4945.15 | 18652085 | 10.0000 |
| Temazepam | 4.673 | 9680847 | 44951.24 | 413.55 | 34984536 | 10.0000 |
| Tramadol | 3.418 | 8601167 | 483.24 | 53.08 | 14959513 | 10.0000 |
| Trazodone | 4.590 | 1425376 | 775032.66 | 202.61 | 6545992 | 10.0000 |

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AM #25 Multi-Drug Screen Results



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|-------------|-------|----------|-----------|-----------|------------|-------------|
| Venlafaxine | 3.785 | 4596173 | 895.07 | 328.07 | 1337066 | 10.0000 |
| Zaleplon | 4.351 | 5859086 | 815.71 | 17184.12 | 42747291 | 10.0000 |
| Zolpidem | 4.304 | 12252393 | 1265.57 | 1622.39 | 42747291 | 10.0000 |
| Zopiclone | 4.160 | 784016 | 867307.46 | 382125.45 | 4117033 | 10.0000 |

SC

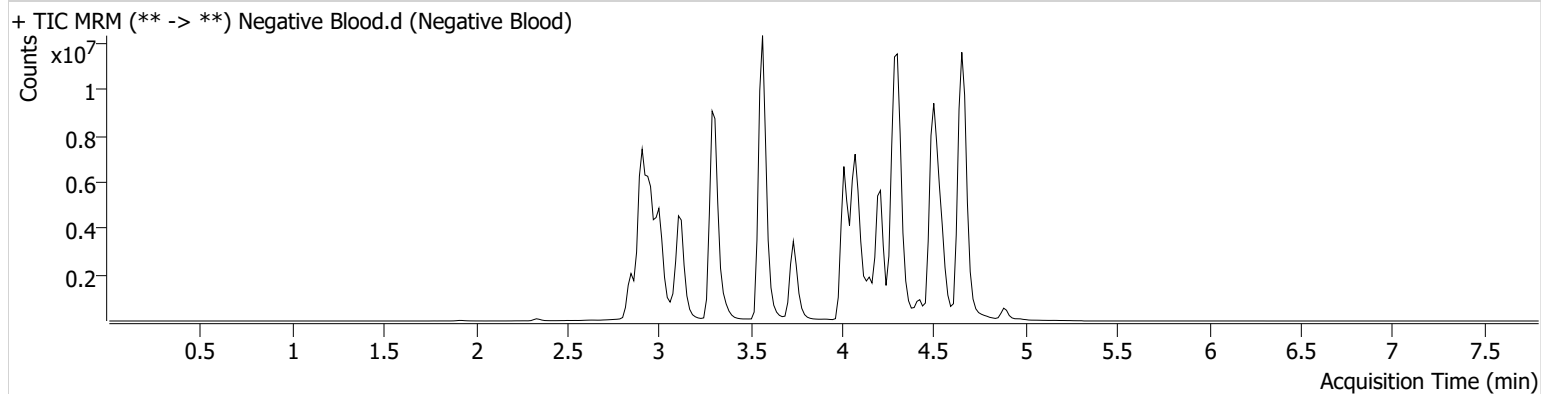
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 7/22/2021 11:06:40 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco (069901) | Data File | Negative Blood.d |
| Type | Sample | Sample | Negative Blood |
| Acq. Method | AM 25 MDS.m | Operator | Sarah Collins |
| Sample Position | P2-C1 | Comment | |
| Injection Volume | 5 | | |
| Acq. Date-Time | 7/20/2021 7:08:51 PM | | |
| Sample Info. | | | |

Sample Chromatogram



SC

AM# 26: Screening of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 07/20/21
Plate lot#: IDP-108-2-210609

Analyst: Sarah Collins
Plate Expiration: 12/09/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

Mobile phase B: 0.1% Formic acid in Acetonitrile
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. 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:** 3382167
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **500µL 0.1% formic acid in water blood sample, 500 µL saturated phosphate buffer in urine** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **700-800µL 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 **100µL 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 ≥ 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).
- 4. Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: 10ng/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)
- 6. Enter QCs into control charting.
- 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Did not evaluate THC due to accuracy falling out of line.

Calibrator 7 reinjected due to low internal standard response in initial injection.

SC

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|-------------|----------------|--------------|---------------|---------------|--------------|
| A | IS + Cal. 1 | negative blood | m2021-2946-1 | p2021-2343-1 | p2021-2385-2* | p2021-2420-1 |
| B | IS + Cal. 2 | m2021-2376-4 | m2021-2948-1 | p2021-2344-1 | p2021-2406-1 | |
| C | IS + Cal. 3 | m2021-2435-1 | m2021-3160-3 | p2021-2359-1 | p2021-2418-1 | |
| D | IS + Cal. 4 | m2021-2691-1 | p2021-1658-1 | p2021-2367-1* | p2021-2420-1* | |
| E | IS + Cal. 5 | m2021-2803-1 | p2021-1849-1 | p2021-2378-1 | p2021-2367-1 | |
| F | IS + Cal. 6 | m2021-2804-1 | p2021-2175-1 | p2021-2380-1* | p2021-2380-1 | |
| G | IS + Cal. 7 | m2021-2820-1 | p2021-2306-1 | p2021-2381-1* | p2021-2381-1 | |
| H | IS + QC_1 | m2021-2839-1 | p2021-2307-1 | p2021-2382-1 | p2021-2385-2 | |

All wells to contain 100 µl of residual DMSO

*Samples moved during analytical step 6 due to blood clot

SC

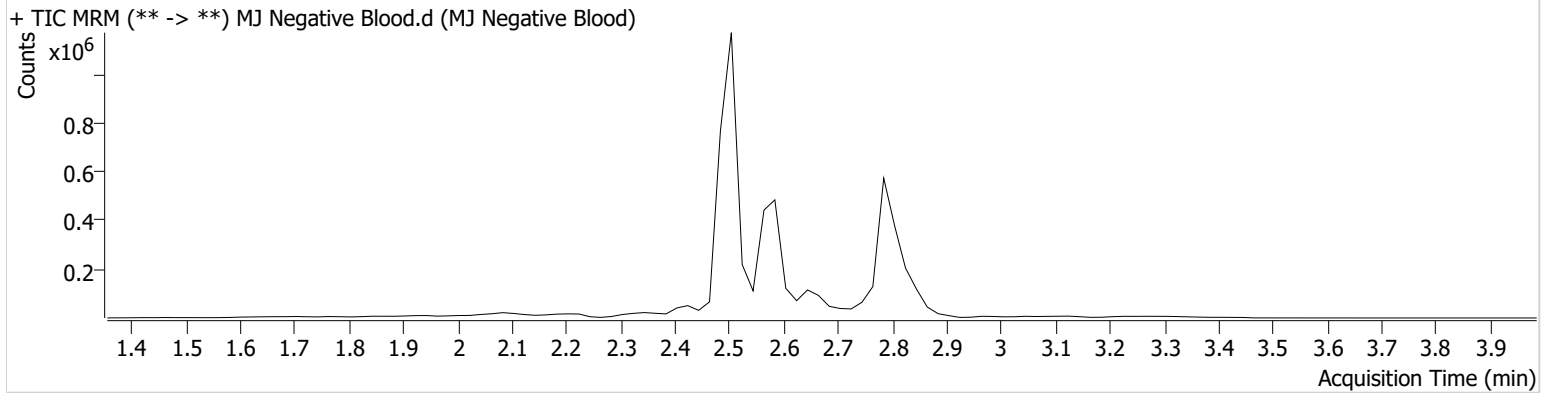


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------------|
| Instrument | Falco (069901) | Data File | MJ Negative Blood.d |
| Type | Sample | Sample | MJ Negative Blood |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-A2 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 2:27:16 PM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|--------|-------|-------|------------|--------------|------------|
| THC-OH | 2.574 | 7153 | 2621737 | 1.5461 ng/ml | Low |

SC

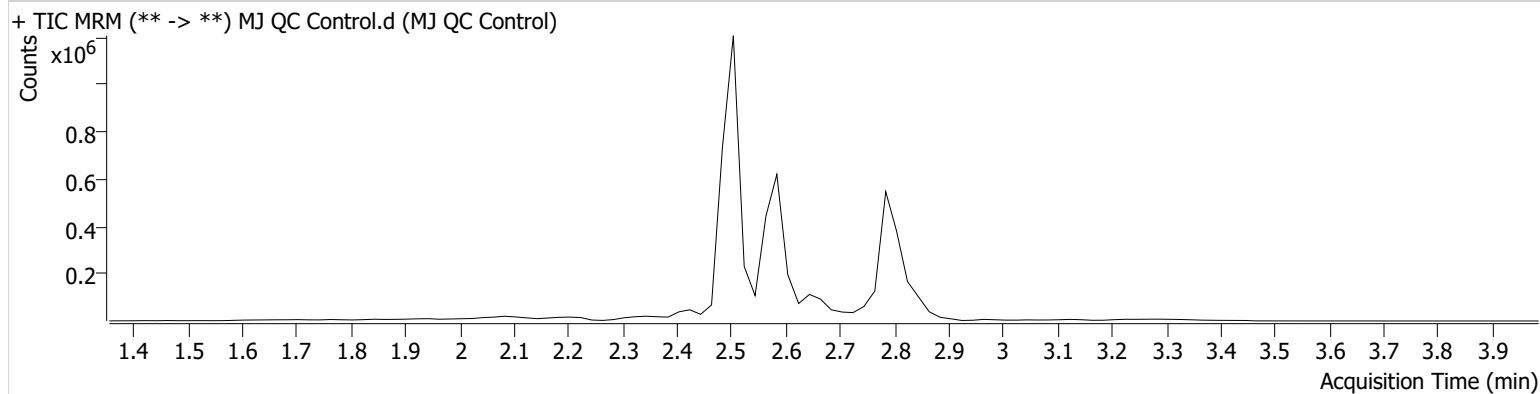
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|-----------------|
| Instrument | Falco (069901) | Data File | MJ QC Control.d |
| Type | Sample | Sample | MJ QC Control |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-H1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 2:14:11 PM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|---------------|
| THC | 2.839 | 6822 | 187257 | 3.9434 ng/ml |
| THC-COOH | 2.607 | 81875 | 774359 | 16.5328 ng/ml |
| THC-OH | 2.514 | 27065 | 2468441 | 6.3642 ng/ml |

SC

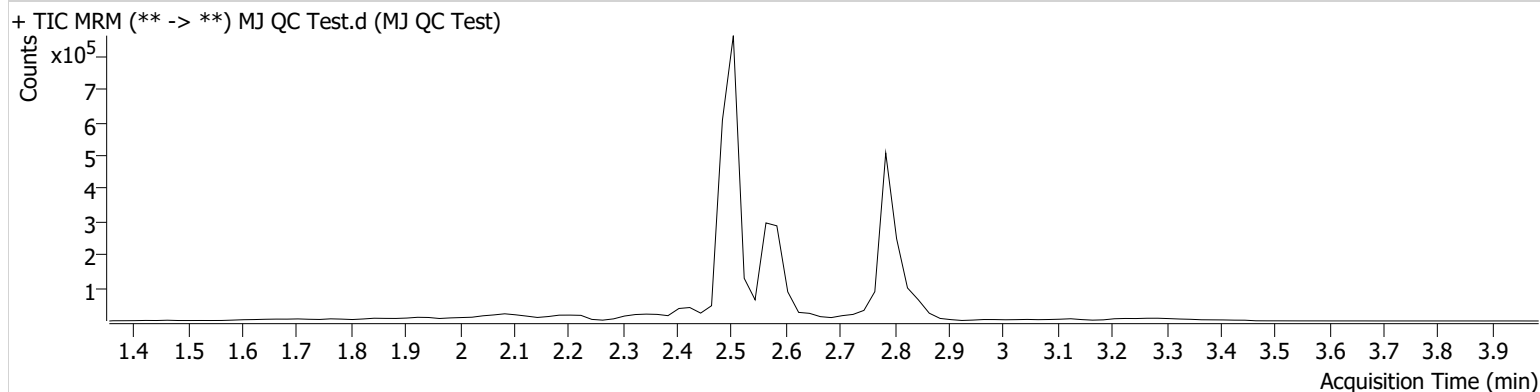


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/26/2021 9:24:40 AM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ QC Test.d |
| Type | Sample | Sample | MJ QC Test |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-H1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 5:36:32 PM | | |
| Sample Info. | | | |

Sample Chromatogram



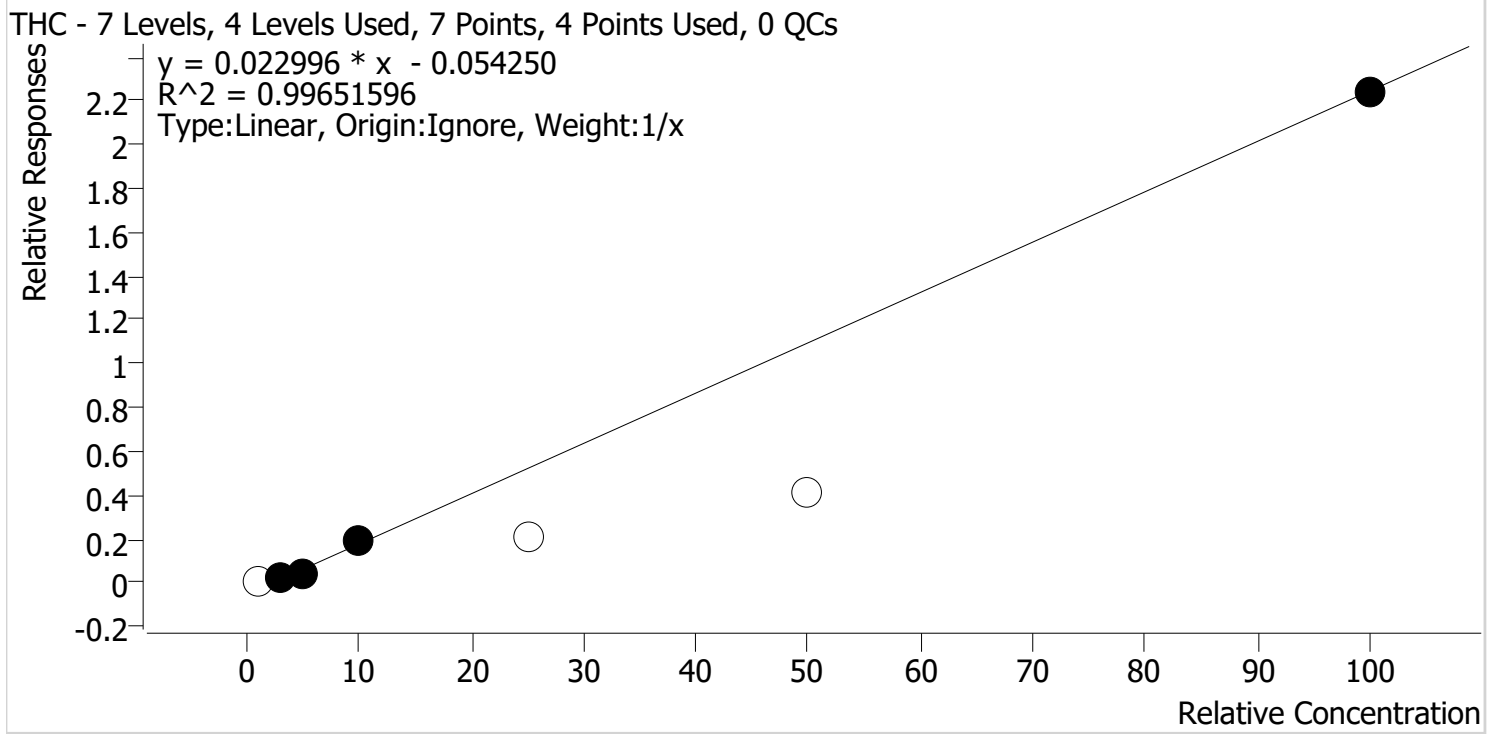
| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|---------------|
| THC | 2.839 | 4692 | 112508 | 4.1727 ng/ml |
| THC-COOH | 2.567 | 42695 | 515892 | 12.9702 ng/ml |
| THC-OH | 2.514 | 15959 | 1827504 | 5.0584 ng/ml |

SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update 7/20/2021 5:36 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|------------|-------|---------|------------------------|---------------------|----------|
| MJ Cal 1 | 1 | x | 1.0 | 2.7 | 271.5 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 3.3 | 109.5 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 4.0 | 80.5 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 11.0 | 110.3 |
| MJ Cal 5 | 5 | x | 25.0 | 11.5 | 46.0 |
| MJ Cal 6 | 6 | x | 50.0 | 20.1 | 40.3 |
| MJ Cal 7 R | 7 | ✓ | 100.0 | 99.7 | 99.7 |

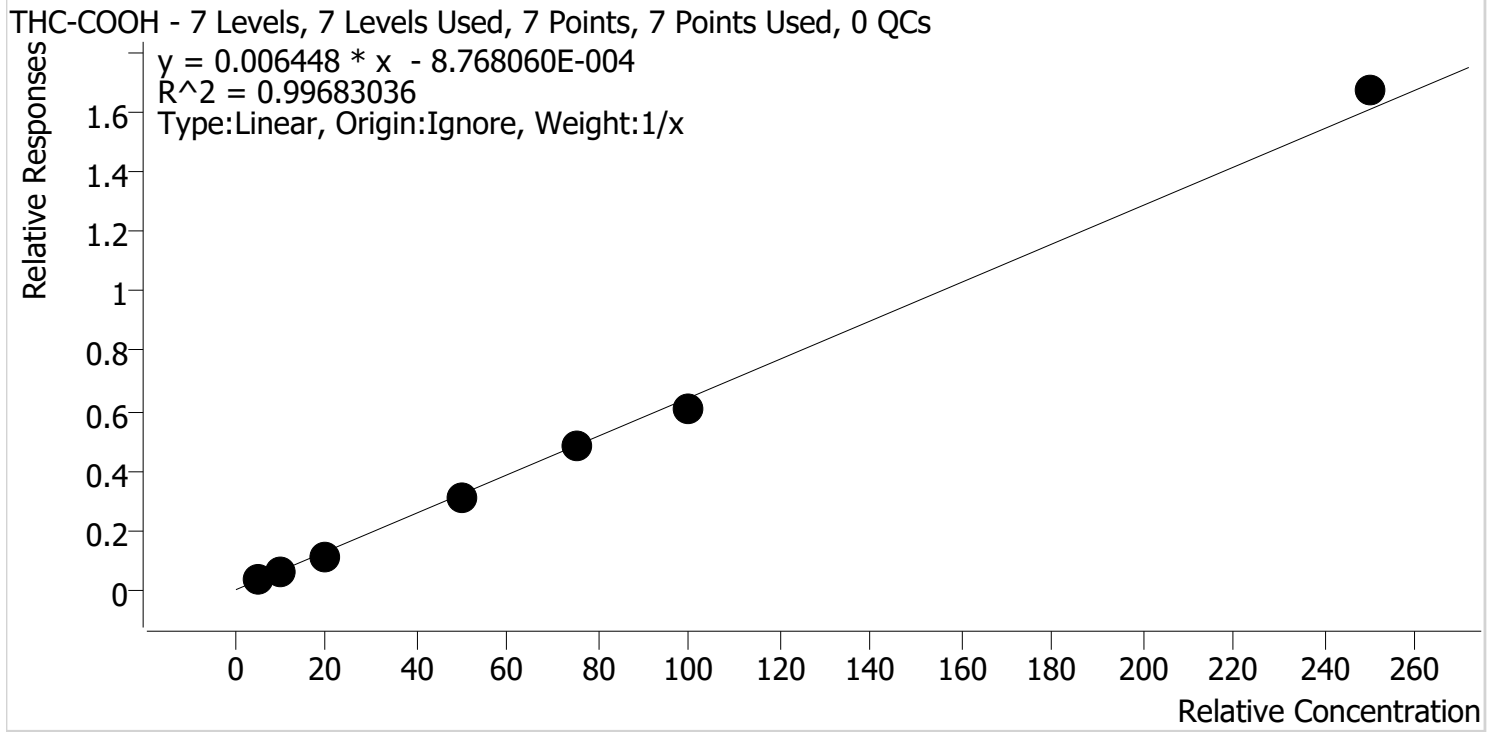
Did not evaluate THC due to accuracy falling outside acceptable ranges

SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update 7/20/2021 5:36 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



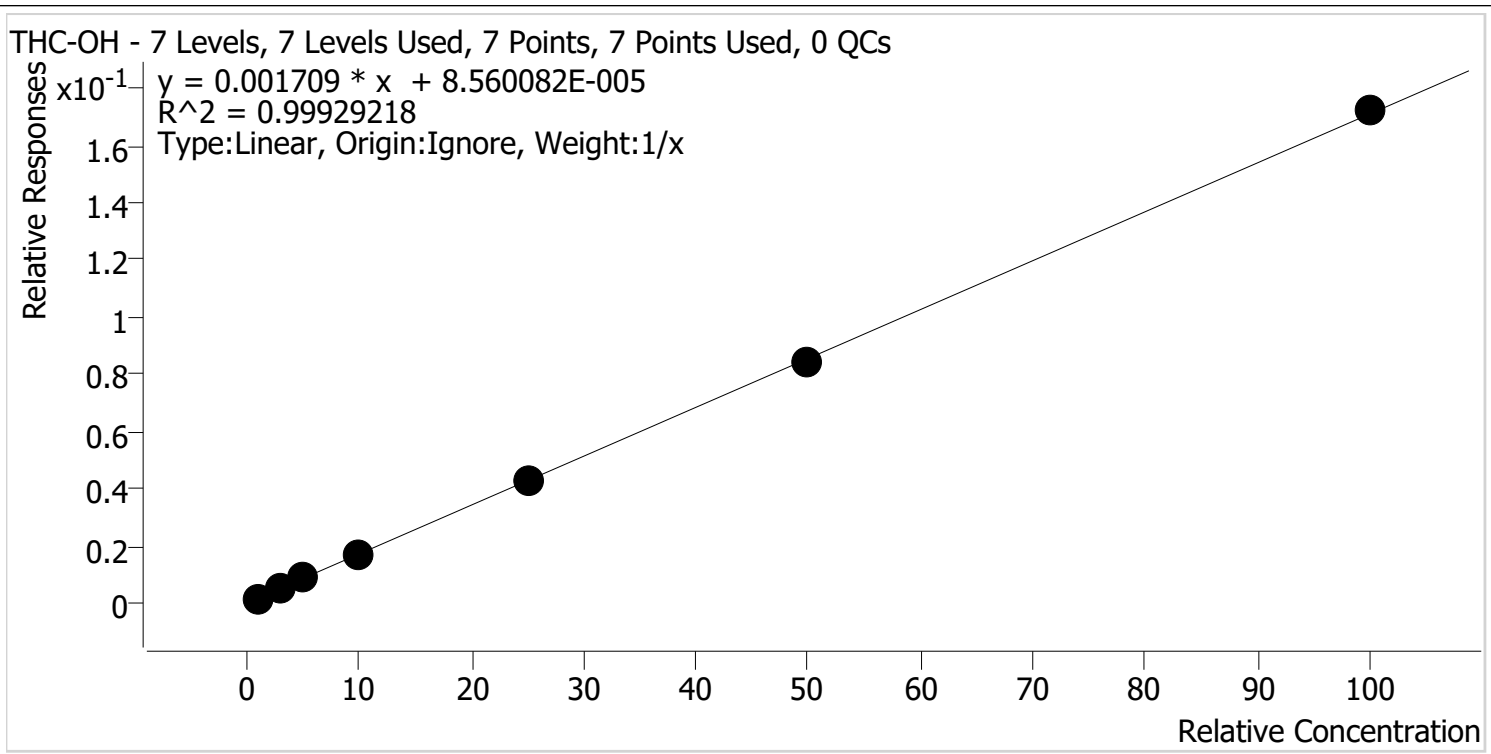
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|------------|-------|---------|------------------------|---------------------|----------|
| MJ Cal 1 | 1 | ✓ | 5.0 | 5.8 | 116.7 |
| MJ Cal 2 | 2 | ✓ | 10.0 | 10.2 | 101.9 |
| MJ Cal 3 | 3 | ✓ | 20.0 | 17.7 | 88.6 |
| MJ Cal 4 | 4 | ✓ | 50.0 | 47.5 | 94.9 |
| MJ Cal 5 | 5 | ✓ | 75.0 | 74.8 | 99.7 |
| MJ Cal 6 | 6 | ✓ | 100.0 | 94.3 | 94.3 |
| MJ Cal 7 R | 7 | ✓ | 250.0 | 259.7 | 103.9 |

SC



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update 7/20/2021 5:36 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 | ✓ | 1.0 | 0.9 | 85.3 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 3.3 | 109.9 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 5.4 | 108.9 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 9.7 | 97.4 |
| MJ Cal 5 | 5 | ✓ | 25.0 | 24.9 | 99.6 |
| MJ Cal 6 | 6 | ✓ | 50.0 | 49.1 | 98.2 |
| MJ Cal 7 R | 7 | ✓ | 100.0 | 100.7 | 100.7 |

SC

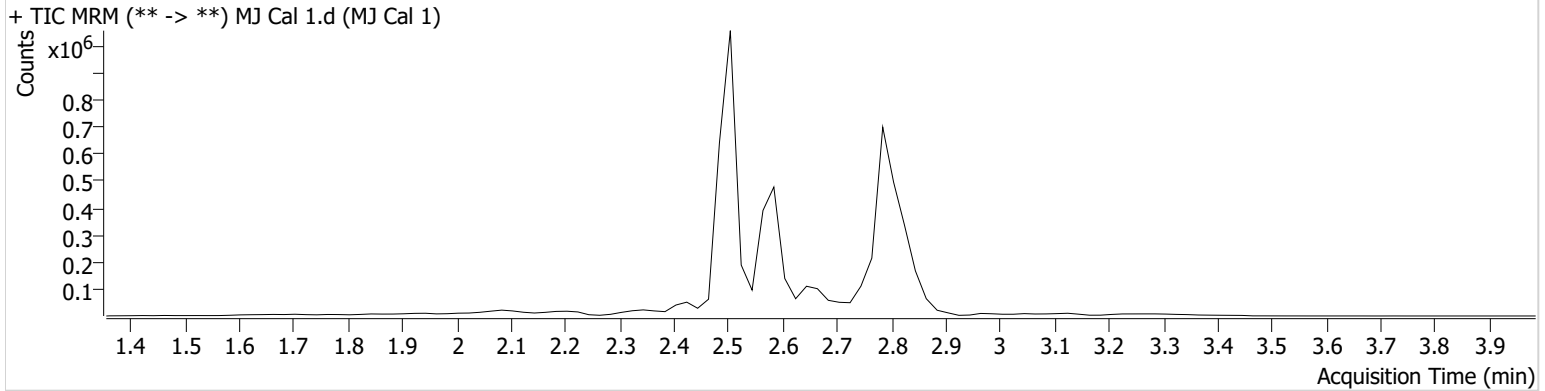


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 1.d |
| Type | Cal | Sample | MJ Cal 1 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-A1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 1:28:24 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|----------|-------|-------|------------|--------------|------------|
| THC | 2.839 | 3010 | 367390 | 2.7154 ng/ml | Low |
| THC-COOH | 2.607 | 25087 | 682858 | 5.8333 ng/ml | |
| THC-OH | 2.514 | 3474 | 2249298 | 0.8535 ng/ml | Low |

SC

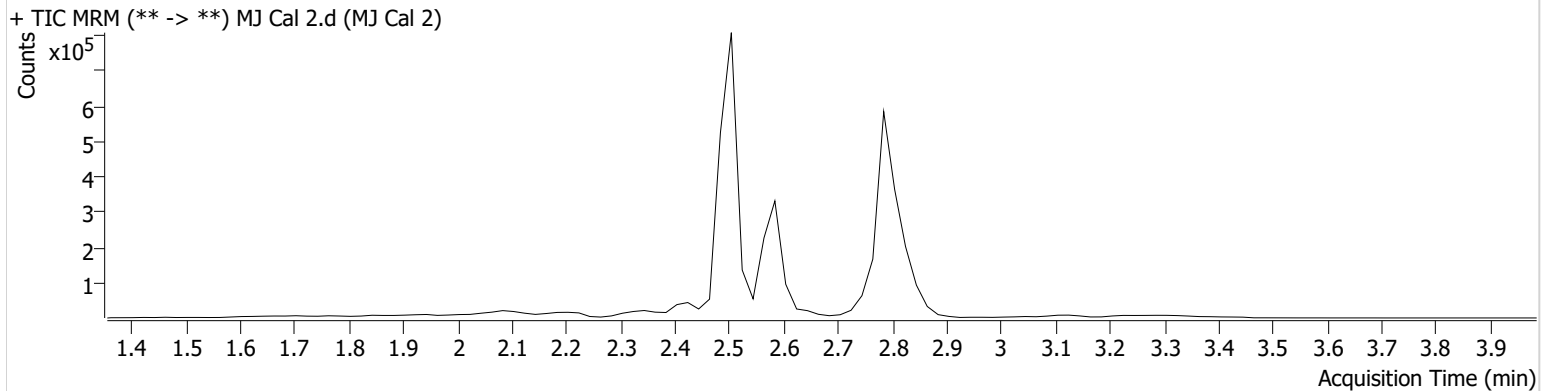


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 2.d |
| Type | Cal | Sample | MJ Cal 2 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-B1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 1:35:05 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|---------------|
| THC | 2.839 | 4554 | 213775 | 3.2854 ng/ml |
| THC-COOH | 2.607 | 32209 | 496718 | 10.1919 ng/ml |
| THC-OH | 2.514 | 9856 | 1722765 | 3.2968 ng/ml |

SC

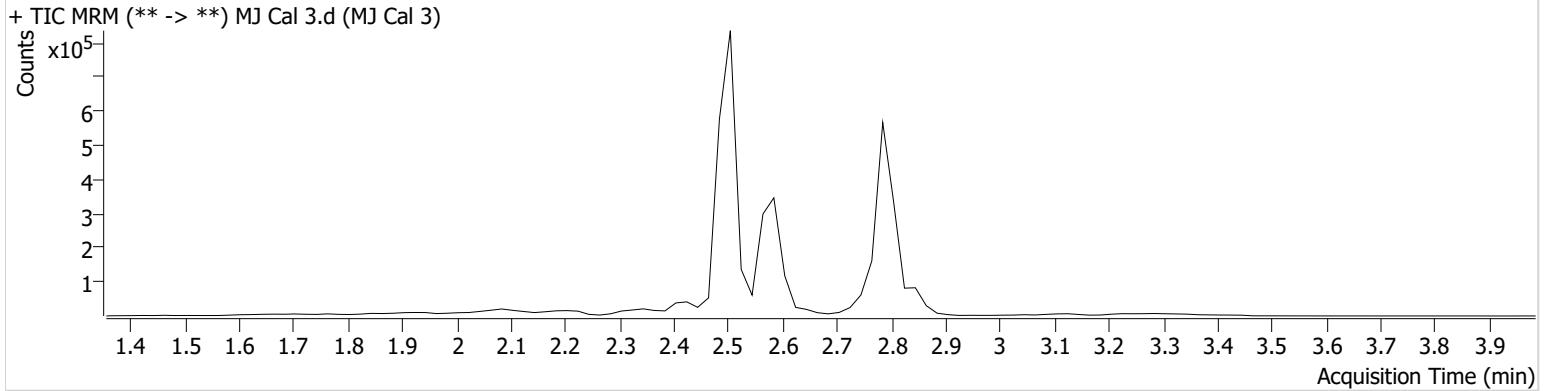


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 3.d |
| Type | Cal | Sample | MJ Cal 3 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-C1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 1:41:36 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|---------------|
| THC | 2.859 | 2752 | 71858 | 4.0245 ng/ml |
| THC-COOH | 2.607 | 64705 | 570631 | 17.7207 ng/ml |
| THC-OH | 2.514 | 16625 | 1770677 | 5.4426 ng/ml |

SC

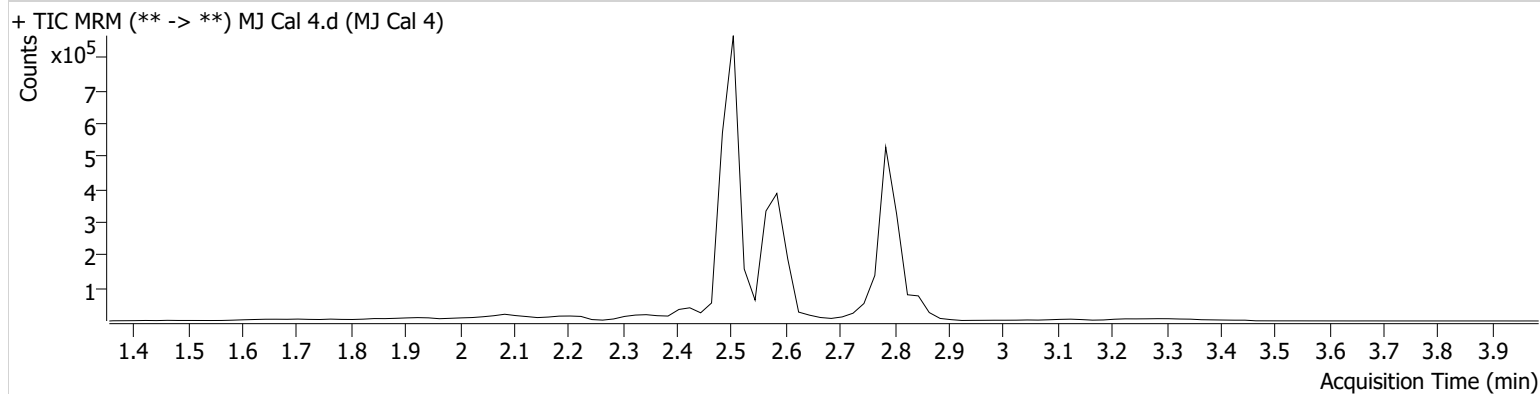


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 4.d |
| Type | Cal | Sample | MJ Cal 4 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-D1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 1:48:07 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|---------------|
| THC | 2.839 | 13474 | 67540 | 11.0341 ng/ml |
| THC-COOH | 2.607 | 159587 | 523023 | 47.4542 ng/ml |
| THC-OH | 2.514 | 28831 | 1722306 | 9.7427 ng/ml |

SC

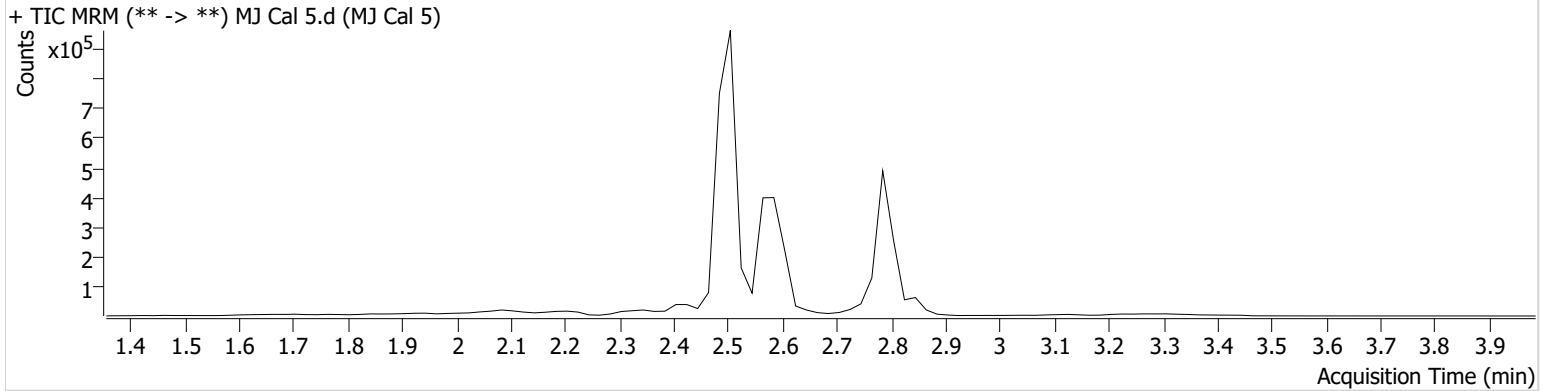


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 5.d |
| Type | Cal | Sample | MJ Cal 5 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-E1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 1:54:38 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|---------------|
| THC | 2.859 | 10297 | 49025 | 11.4930 ng/ml |
| THC-COOH | 2.567 | 231577 | 481212 | 74.7655 ng/ml |
| THC-OH | 2.514 | 72849 | 1708004 | 24.9011 ng/ml |

SC

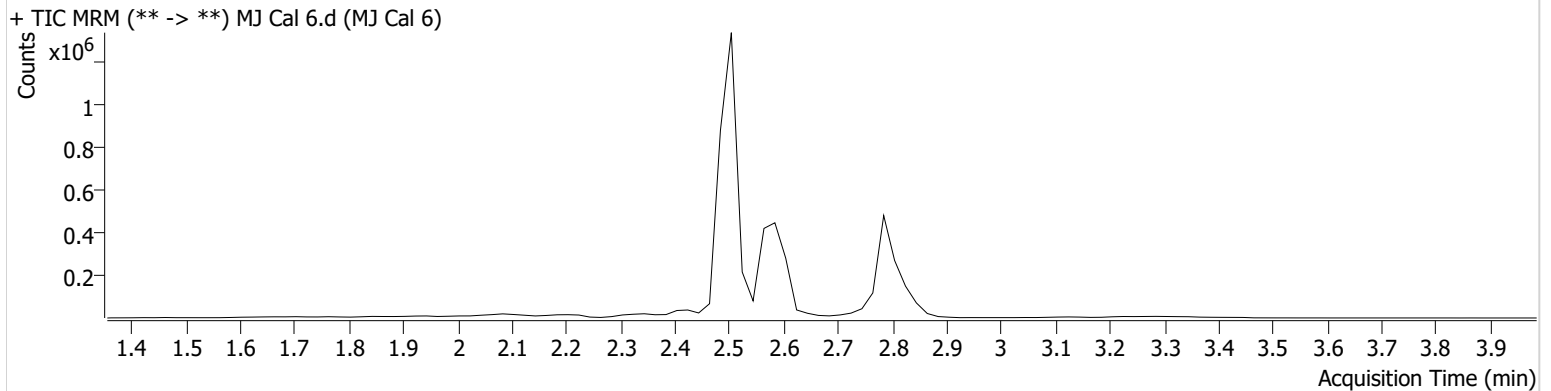


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 6.d |
| Type | Cal | Sample | MJ Cal 6 |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-F1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 2:01:09 PM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|---------------|
| THC | 2.839 | 52691 | 128920 | 20.1320 ng/ml |
| THC-COOH | 2.567 | 285874 | 470621 | 94.3370 ng/ml |
| THC-OH | 2.514 | 145965 | 1736900 | 49.1122 ng/ml |

SC

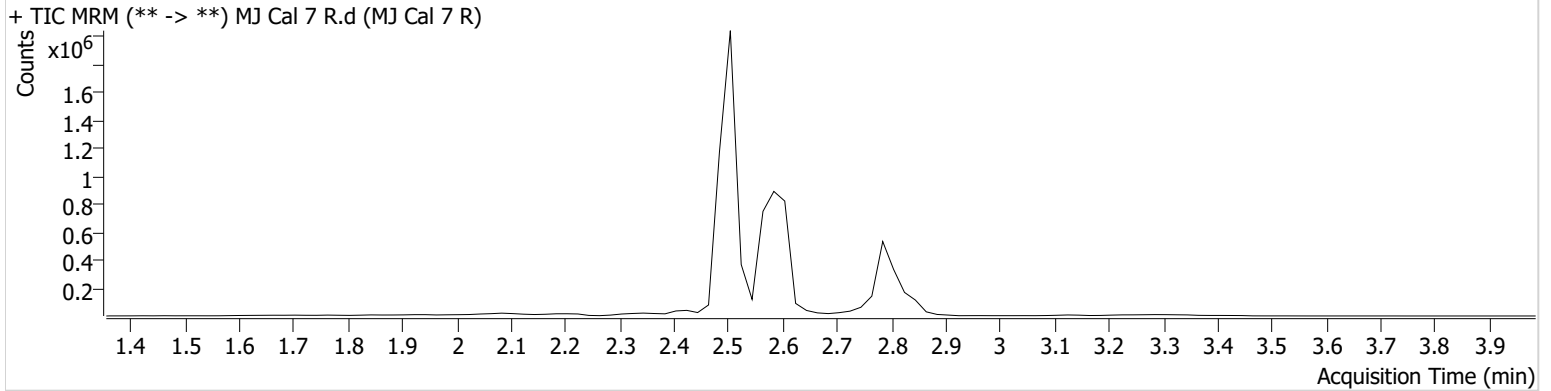


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\072021 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 7/20/2021 5:36:41 PM

| | | | |
|-------------------------|----------------------|------------------|---------------|
| Instrument | Falco (069901) | Data File | MJ Cal 7 R.d |
| Type | Cal | Sample | MJ Cal 7 R |
| Acq. Method | AM 26 THCS.m | Operator | Sarah Collins |
| Sample Position | P1-G1 | Comment | |
| Injection Volume | 10 | | |
| Acq. Date-Time | 7/20/2021 2:33:47 PM | | |

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|----------------|
| THC | 2.839 | 150348 | 67196 | 99.6560 ng/ml |
| THC-COOH | 2.607 | 861084 | 514467 | 259.6974 ng/ml |
| THC-OH | 2.514 | 306592 | 1781090 | 100.6511 ng/ml |