**REVIEWED**
*By Sarah Pickle at 8:57 am, Dec 19, 2019*

12/18/2019

TS

**Worklist: 3889**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| M2019-3507 | 3 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-4718 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-4835 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-4927 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-4938 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-4938 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-5117 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-5141 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-5163 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-5191 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| M2019-5282 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3510 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3521 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3530 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3532 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3534 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3549 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3592 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3593 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3604 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3631 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |

**Worklist: 3889**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| P2019-3644 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3645 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3654 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |
| P2019-3677 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |

TS

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

Extraction Date: 12/17/19
Plate Item #: IDP-107 Plate Lot#: 190725

Analyst: Tamara Salazar
Plate Expiration: 01/25/20

**Mobile phase A**: 10mM Amm Form
0.5M Ammonium Hydroxide
**Blank Blood Lot**: Hemostat 445283-3
**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. Pipette **250µL blood (calibrated pipette) Pipette ID: 16** in wells of analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
☒ 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **300µL of blood+base** 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: 067104*
☒ 8. Wait 5 minutes.
☒ 9. Add **900uL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **900uL ethyl acetate.**
☒ 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. *SPE Dry ID: 067103*
☒ 16. Reconstitute in **100µL 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.
Batch Name: AM 25 MDS
Worklist path: *D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS*
☒ 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? Y / N _____
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

TS

# Idaho State Police
# Forensic Services

## AM #25 Blood Multi-Drug Screen by LCMS-QQQ

**Methanol External Control Solution (Lot: 042719)**

*100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.*

| *Component* | *Source* | *Source Lot Number* | *Expiration Date* |
|---|---|---|---|
| Methanol (LCMS) | Fisher | 184782 | |
| Morphine | Cerilliant | FE08141515 | November 2020 |
| Metoprolol | Cerilliant | FN06091510 | July 2020 |
| Flunitrazepam | Cerilliant | FE08051602 | August 2021 |
| Trazodone | Cerilliant | FN12151403 | January 2020 |
| Prepared: | 04/27/19 | | |
| Prepared By: | Tamara Salazar | | |
| Expires: | 01/31/2020 | | |

**Blood External Control Solution (Lot: WS042719)**

*100 ul of methanol external control solution was added to 9900 ul of blood.*
*Approximately 50ng/mL of each compound.*

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| Negative Blood | Hemostat | 445283-1 |
| Methanol External Control Solution | | 042719 |
| Prepared: | 04/27/19 | |
| Prepared by: | Tamara Salazar | |
| Expires: | 01/31/2020 | |

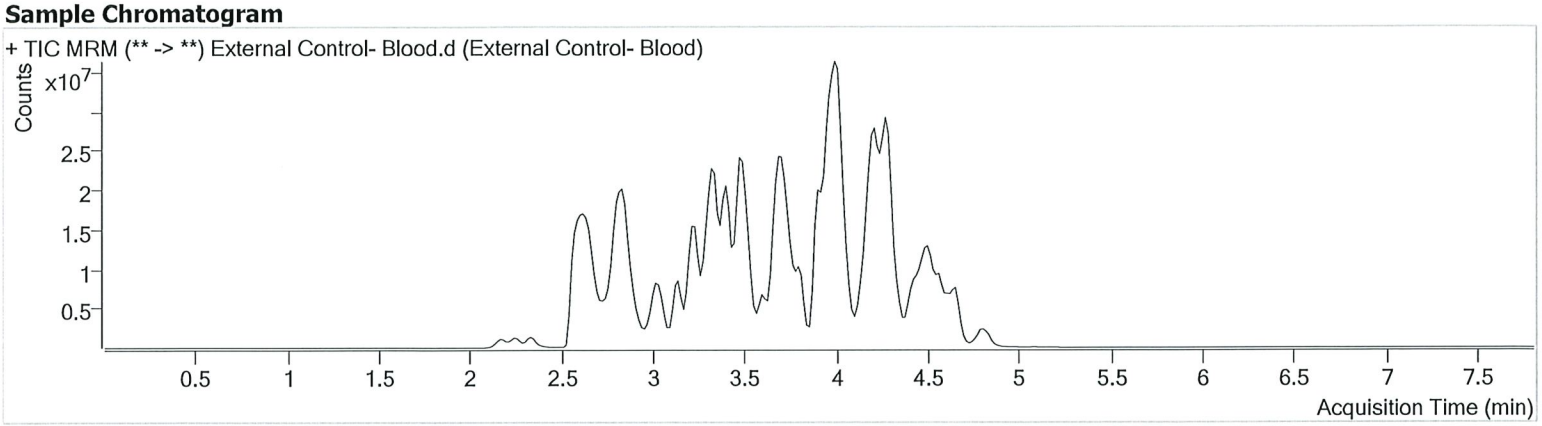
TS

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 25 MDS.batch.bin
**Calibration Last Update** 12/17/2019 3:08:20 PM

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | External Control- Blood.d |
| **Type** | Sample | **Sample** | External Control- Blood |
| **Acq. Method** | am 25 all.m | **Operator** | Tamara Salazar |
| **Sample Position** | P1-E12 | **Comment** | |
| **Injection Volume** | 5 | | |
| **Acq. Date-Time** | 12/17/2019 11:26:17 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|---|---|---|---|---|---|---|
| Flunitrazepam | 4.562 | 14234263 | 7434.20 | 4371.13 | 501187 | 61.4331 |
| Metoprolol | 3.353 | 4837523 | 1962.33 | 20814.22 | 17368364 | 55.0137 |
| Morphine | 2.174 | 1195967 | 76166.13 | 20759.32 | 104777 | 67.4978 |
| Trazodone | 4.021 | 28595131 | 2053186.95 | 37042.61 | 20964037 | 55.2117 |

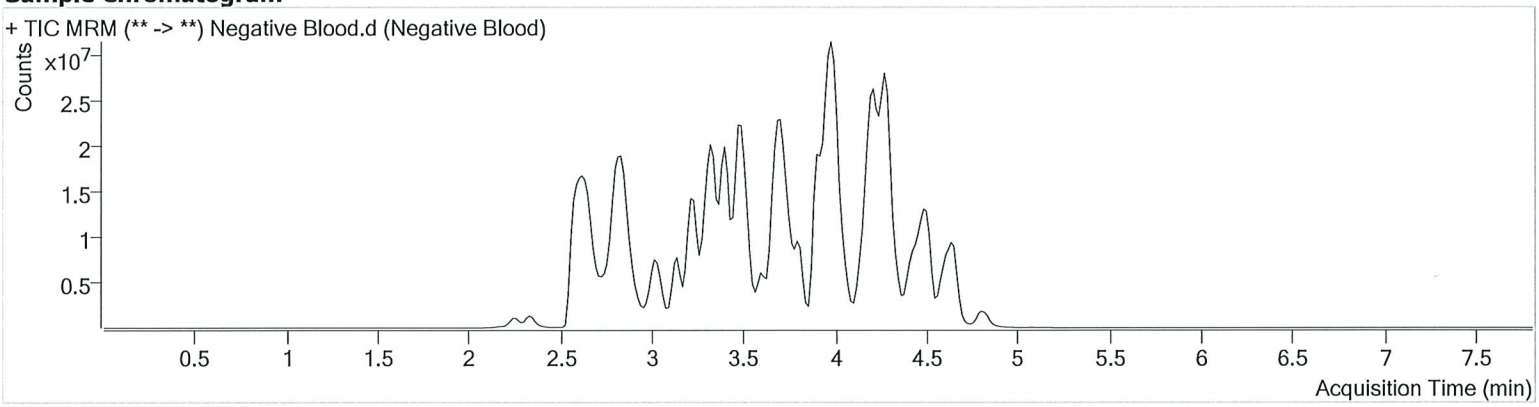
TS

# AM #25 Multi-Drug Screen Results

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 25 MDS.batch.bin |
| **Calibration Last Update** | 12/17/2019 3:08:20 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | Negative Blood.d |
| **Type** | Sample | **Sample** | Negative Blood |
| **Acq. Method** | am 25 all.m | **Operator** | Tamara Salazar |
| **Sample Position** | P1-F12 | **Comment** | |
| **Injection Volume** | 5 | | |
| **Acq. Date-Time** | 12/17/2019 11:17:59 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**



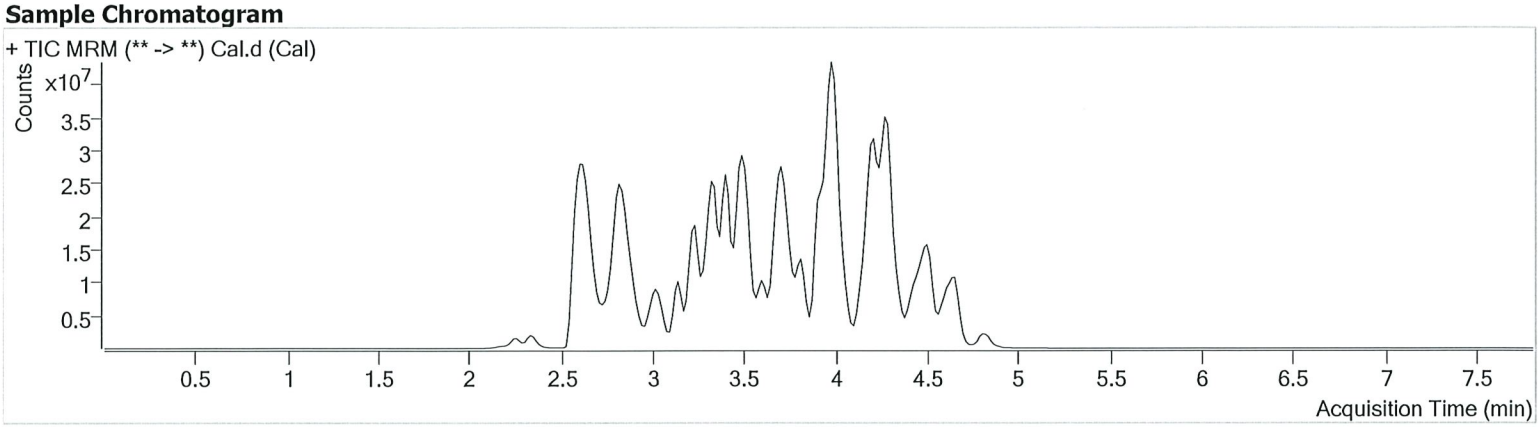
TS

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 25 MDS.batch.bin
**Calibration Last Update** 12/17/2019 3:08:20 PM

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | Cal.d |
| **Type** | Cal | **Sample** | Cal |
| **Acq. Method** | am 25 all.m | **Operator** | Tamara Salazar |
| **Sample Position** | P1-H12 | **Comment** | |
| **Injection Volume** | 5 | | |
| **Acq. Date-Time** | 12/17/2019 11:09:30 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|---|---|---|---|---|---|---|
| 6-MAM | 2.783 | 43619 | 74.63 | 139.41 | 1096285 | 10.0000 |
| 7-aminoclonazepam | 3.551 | 1522053 | 45737.03 | 222.50 | 6472960 | 10.0000 |
| 7-aminoflunitrazepam | 3.765 | 2872755 | 1440.15 | 105.45 | 19423504 | 10.0000 |
| Acetyl Fentanyl | 3.670 | 454156 | 612.37 | 126.67 | 32681787 | 10.0000 |
| Acetyl Norfentanyl | 2.808 | 285213 | 1118.38 | 87.00 | 13503180 | 10.0000 |
| a-hydroxyalprazolam | 4.499 | 217562 | 503.41 | ∞ | 1141010 | 10.0000 |
| alpha-hydroxymidazolam | 4.513 | 1656731 | 294.69 | 1747.92 | 10394497 | 10.0000 |
| alpha-PVP | 3.420 | 5454058 | 963.24 | 856.30 | 24429965 | 10.0000 |
| Alprazolam | 4.609 | 1914617 | ∞ | 187.00 | 5551707 | 10.0000 |
| Amitriptyline | 4.322 | 4685510 | 74.78 | 345.95 | 10613029 | 10.0000 |
| Amphetamine | 2.782 | 2761625 | ∞ | 510.16 | 8011027 | 10.0000 |
| Benzoylecgonine | 3.351 | 1090610 | 266.10 | 339.97 | 4932660 | 10.0000 |
| Buprenorphine | 4.004 | 506544 | 152.74 | 65220.92 | 2161465 | 10.0000 |
| Bupropion | 3.619 | 5168121 | 20987.85 | ∞ | 16166243 | 10.0000 |
| Carbamazepine | 4.218 | 6211225 | ∞ | ∞ | 36983477 | 10.0000 |
| Carisoprodol | 4.201 | 1241060 | 133930.38 | 103.28 | 6806442 | 10.0000 |
| Chlordiazepoxide | 4.611 | 306675 | ∞ | ∞ | 11710003 | 10.0000 |
| Chlorpheniramine | 3.843 | 27299 | 39.86 | ∞ | 52781037 | 10.0000 |
| Citalopram | 3.977 | 2549178 | 1067.23 | 2529.79 | 12185708 | 10.0000 |
| Clonazepam | 4.439 | 1199253 | 16913.75 | 375.78 | 2335475 | 10.0000 |
| Cocaine | 3.458 | 6387451 | 859114.42 | 1882.68 | 30285944 | 10.0000 |
| Codeine | 2.681 | 450928 | 90.92 | 423.13 | 1889168 | 10.0000 |
| Cyclobenzaprine | 4.245 | 3534109 | 1343.14 | 101.75 | 12561905 | 10.0000 |
| Desipramine | 4.277 | 5266389 | ∞ | 4429.14 | 29935915 | 10.0000 |
| Dextromethorphan | 3.967 | 1837456 | ∞ | 232.87 | 8960430 | 10.0000 |
| Dextrorphan | 3.293 | 2873382 | 783.48 | 717.43 | 18684420 | 10.0000 |
| Diazepam | 4.841 | 1238843 | 347.35 | ∞ | 6416647 | 10.0000 |
| Dihydrocodeine | 2.650 | 889398 | 78.09 | 71.98 | 4119908 | 10.0000 |
| Diphenhydramine | 3.923 | 10840285 | 1693899.77 | 3197.61 | 52781037 | 10.0000 |
| Doxepin | 4.043 | 2545926 | ∞ | ∞ | 16546558 | 10.0000 |
| Doxylamine | 3.522 | 11989154 | ∞ | 231420.25 | 43586444 | 10.0000 |
| EDDP | 3.981 | 3943542 | 2604.31 | 867.20 | 27097346 | 10.0000 |
| Estazolam | 4.519 | 5379694 | 841.57 | 556.54 | 15383606 | 10.0000 |
| Etizolam | 4.619 | 338234 | 240.64 | ∞ | 15383606 | 10.0000 |

15

# AM #25 Multi-Drug Screen Results

| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|---|---|---|---|---|---|---|
| Fentanyl | 3.899 | 374889 | 178.63 | 257.02 | 23911519 | 10.0000 |
| Flunitrazepam | 4.562 | 2429872 | 2732.39 | 264.77 | 525594 | 10.0000 |
| Fluoxetine | 4.240 | 3481303 | 3123.65 | 181.29 | 15636167 | 10.0000 |
| Flurazepam | 4.020 | 2356680 | 1106.00 | 221.94 | 525594 | 10.0000 |
| Hydrocodone | 2.864 | 1452360 | 39.44 | 14.10 | 9418169 | 10.0000 |
| Hydromorphone | 2.353 | 1191577 | 172.02 | ∞ | 4610723 | 10.0000 |
| Imipramine | 4.274 | 6174203 | 23840.74 | 165.34 | 23377225 | 10.0000 |
| Ketamine | 3.250 | 4584052 | ∞ | ∞ | 21945558 | 10.0000 |
| Lamotrigine | 3.417 | 371649 | 586.23 | 983.37 | 14908852 | 10.0000 |
| Levamisole | 2.824 | 3508491 | 416.94 | 450.74 | 30285944 | 10.0000 |
| Lorazepam | 4.423 | 581236 | 109.90 | ∞ | 2335475 | 10.0000 |
| Maprotiline | 4.322 | 4705003 | 72.69 | 311.15 | 10613029 | 10.0000 |
| MDA | 2.917 | 2122525 | ∞ | ∞ | 9740654 | 10.0000 |
| MDEA | 3.145 | 5502003 | 4176.41 | 4578.12 | 25091729 | 10.0000 |
| MDMA | 2.992 | 5967368 | ∞ | 2096.95 | 4276920 | 10.0000 |
| Meperidine | 3.479 | 3037170 | 447.13 | 2035.47 | 14908852 | 10.0000 |
| Meprobamate | 3.636 | 571118 | 2074.67 | 110.09 | 2371331 | 10.0000 |
| Methadone | 4.286 | 6608098 | 34519.84 | 342.53 | 29069586 | 10.0000 |
| Methamphetamine | 2.887 | 4078809 | 784.80 | 1301.46 | 21038329 | 10.0000 |
| Methocarbamol | 3.541 | 533996 | 330.62 | 278.71 | 14908852 | 10.0000 |
| Methylphenidate | 3.404 | 10817408 | 645.22 | ∞ | 44053979 | 10.0000 |
| Metoprolol | 3.353 | 754810 | 560.14 | 1395.85 | 14908852 | 10.0000 |
| Midazolam | 4.437 | 720337 | 336.49 | 351806.42 | 8354661 | 10.0000 |
| Mirtazapine | 3.584 | 3154389 | 463.92 | 242885.26 | 14908852 | 10.0000 |
| Mitragynine | 4.035 | 367020 | 20414.21 | 57874.40 | 16546558 | 10.0000 |
| Morphine | 2.174 | 200358 | 3465.98 | 212519.18 | 118479 | 10.0000 |
| Norbuprenorphine | 3.729 | 88811 | 60788.21 | 28.77 | 407047 | 10.0000 |
| Nordiazepam | 4.691 | 1831766 | 795.65 | 670.79 | 5739621 | 10.0000 |
| Norfentanyl | 3.235 | 7354866 | ∞ | 1025.43 | 31579752 | 10.0000 |
| Norhydrocodone | 2.850 | 25972 | ∞ | 35.04 | 1019371 | 10.0000 |
| Normeperidine | 3.512 | 2545841 | 1605.27 | ∞ | 9051289 | 10.0000 |
| Noroxycodone | 2.818 | 908348 | 82.59 | 74.80 | 2845514 | 10.0000 |
| Nortriptyline | 4.325 | 2424187 | 302759.91 | 210.92 | 5572577 | 10.0000 |
| O-desmethyl-tramadol | 2.822 | 8545384 | 7779.58 | 37.84 | 40274443 | 10.0000 |
| Olanzapine | 3.318 | 554039 | 124.27 | 180.63 | 803524 | 10.0000 |
| Oxazepam | 4.504 | 2574984 | 420.18 | 128.23 | 16550888 | 10.0000 |
| Oxycodone | 2.815 | 2265936 | ∞ | 204.83 | 9721213 | 10.0000 |
| Oxymorphone | 2.258 | 1175764 | 124.51 | 576.02 | 4131675 | 10.0000 |
| Paroxetine | 4.253 | 456030 | 165.91 | 26.66 | 12643951 | 10.0000 |
| Phenazepam | 4.634 | 1325005 | 42.46 | 248.93 | 6503260 | 10.0000 |
| Phencyclidine | 3.816 | 6064147 | 7146.16 | 1951.26 | 27537115 | 10.0000 |
| Phentermine | 3.055 | 1963109 | 252.85 | 20.36 | 22544043 | 10.0000 |
| Phenytoin | 4.109 | 123574 | 8327.13 | 42.82 | 803524 | 10.0000 |
| Promethazine | 4.197 | 10509983 | 10654.91 | 364.57 | 37858222 | 10.0000 |
| Pseudoephedrine | 2.613 | 50468480 | 5735.00 | 12846.40 | 133712227 | 10.0000 |
| Quetiapine | 4.144 | 3714172 | 801180.17 | 806.31 | 5662239 | 10.0000 |
| Sertraline | 4.456 | 2499844 | 570.59 | 438.20 | 12643951 | 10.0000 |
| Sufentanil | 4.159 | 302007 | 11186.03 | 195.69 | 21059251 | 10.0000 |
| Tapentadol | 3.343 | 4824322 | 1867.98 | 1425.86 | 24950236 | 10.0000 |
| Temazepam | 4.656 | 3812457 | ∞ | 176.59 | 18400950 | 10.0000 |
| Tramadol | 3.324 | 10899406 | 6886.20 | 280.82 | 43442289 | 10.0000 |
| Trazodone | 4.021 | 4661026 | ∞ | ∞ | 18866680 | 10.0000 |
| Venlafaxine | 3.704 | 7563925 | 1165.93 | 244.77 | 38738839 | 10.0000 |
| Zaleplon | 4.349 | 3171443 | 242546.76 | 3123.77 | 7087027 | 10.0000 |
| Zolpidem | 3.732 | 8768798 | 534039.14 | ∞ | 40816046 | 10.0000 |
| Zopiclone | 3.653 | 384494 | 381220.56 | 274.06 | 2025612 | 10.0000 |

Cal

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

Extraction Date: 12/17/19 Analyst: Tamara Salazar

Plate lot# IDP-108, 190716 Plate Expiration: 01/16/20

**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**: 445283-3 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)
**LCMS-QQQ ID**: 069901

## Pre-Analytic:

☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
☒ 3. Create worklist:

## Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Pipette **1000 µL blood (calibrated pipette) Pipette ID: 16** in wells of analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
☒ 4. Pipette **500 µL 0.1% formic acid** for blood in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **800 µL of blood+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)*** Manifold ID: 067104
☒ 8. Wait 5 minutes.
☒ 9. Add **2.25 mL 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 **2.25 mL 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. *SPE Dry ID: 067103*
☒ 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.
Worklist path: *D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS*
Batch Name: *AM 26 THCS*
☒ 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 +/-.100 min whichever is greater of the average retention time of the calibrators.
☒ 4. Did all QCs pass for each analyte? Y / N
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

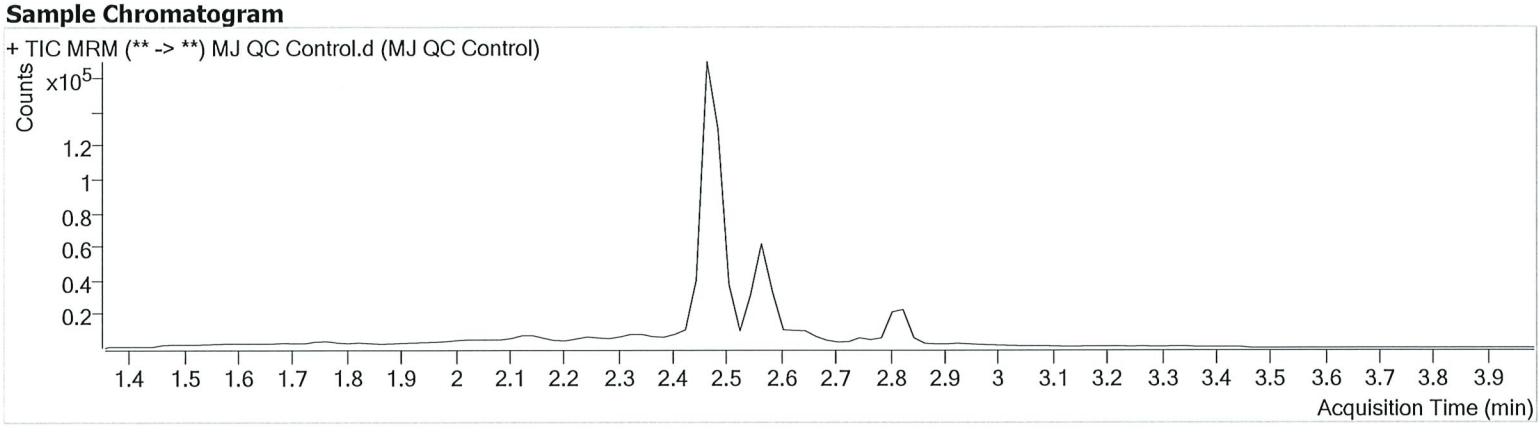
COMMENTS:

# AM #26 Cannabinoids Screen Results

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ QC Control.d |
| **Type** | Sample | **Sample** | MJ QC Control |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-H1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:56:12 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.839 | 1396 | 50051 | 4.1220 | ng/ml |
| THC-COOH | 2.565 | 17679 | 86477 | 15.7137 | ng/ml |
| THC-OH | 2.471 | 18700 | 410745 | 4.9990 | ng/ml |

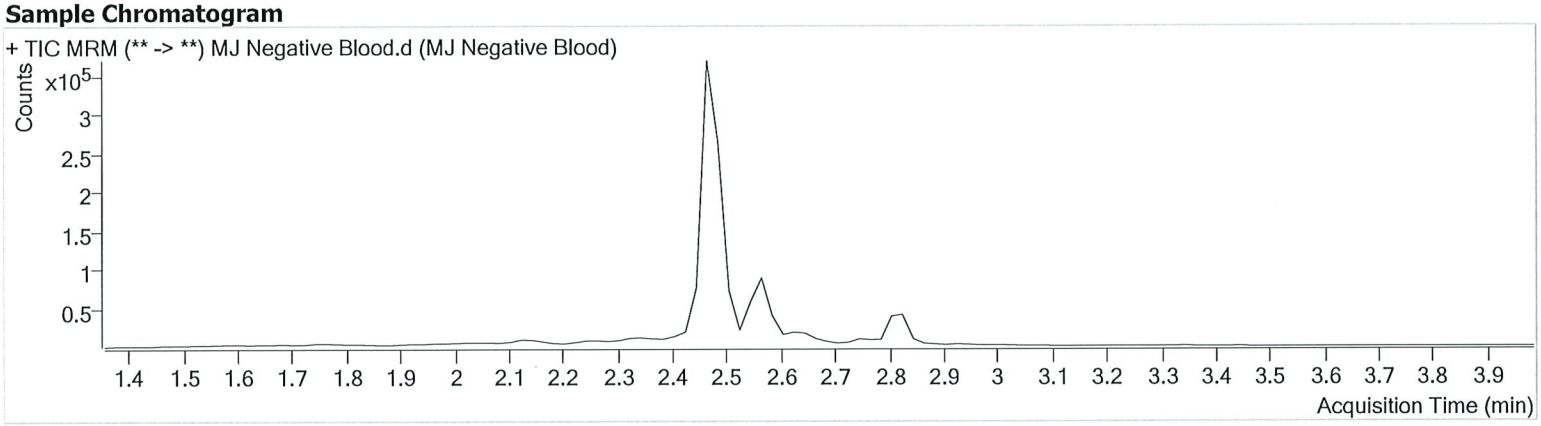
TS

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin
**Calibration Last Update** 12/18/2019 1:20:17 PM

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Negative Blood.d |
| **Type** | Sample | **Sample** | MJ Negative Blood |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-A2 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 10:09:15 AM | | |
| **Sample Info.** | | | |

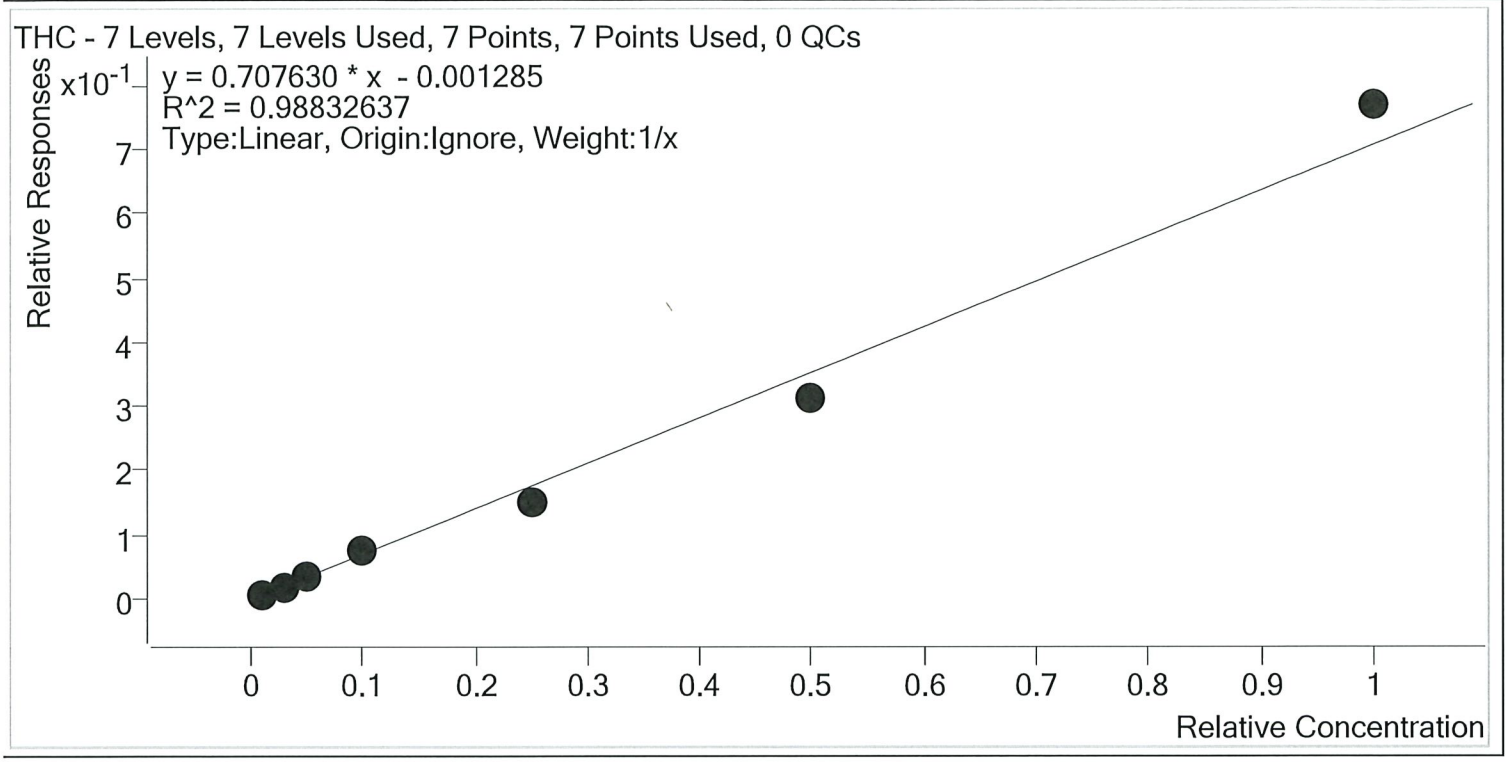
**Sample Chromatogram**



TS

# AM #26 Cannabinoids Screen Calibration Curve Report

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Last Cal. Update** | 12/18/2019 1:20 PM |
| **Analyst Name** | ISP\Datastor |
| **Analyte** | THC |
| **Internal Standard** | THC-d3 |

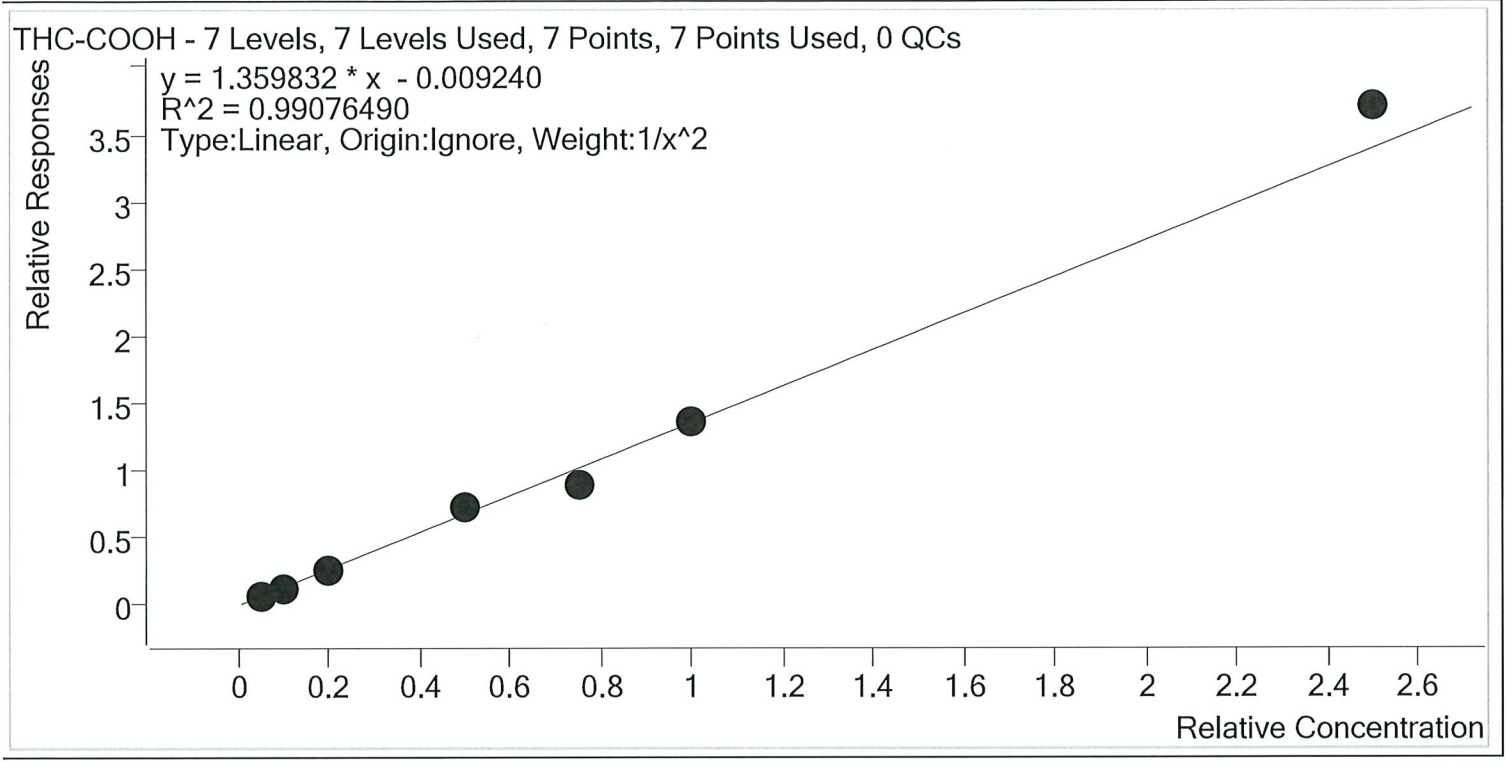



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|---|---|---|---|---|---|
| MJ Cal 1 | 1 | ✓ | 1.0 | 1.2 | 116.3 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 2.9 | 95.9 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 4.9 | 99.0 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 10.5 | 105.2 |
| MJ Cal 5 | 5 | ✓ | 25.0 | 21.6 | 86.5 |
| MJ Cal 6 | 6 | ✓ | 50.0 | 44.2 | 88.3 |
| MJ Cal 7 | 7 | ✓ | 100.0 | 108.7 | 108.7 |

TS

# AM #26 Cannabinoids Screen Calibration Curve Report

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Last Cal. Update** | 12/18/2019 1:20 PM |
| **Analyst Name** | ISP\Datastor |
| **Analyte** | THC-COOH |
| **Internal Standard** | THC-COOH-d9 |

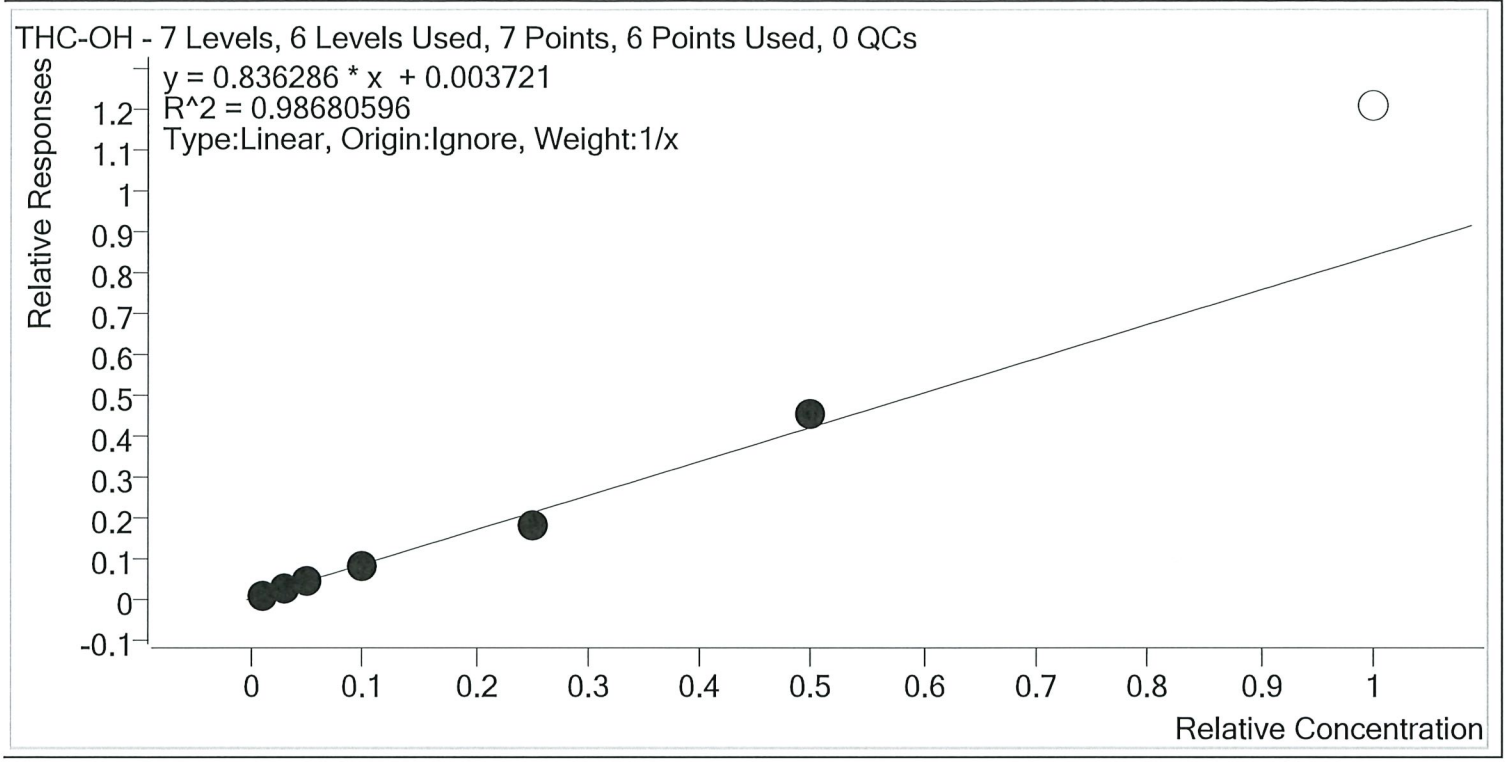



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|---|---|---|---|---|---|
| MJ Cal 1 | 1 | ✓ | 5.0 | 5.2 | 103.6 |
| MJ Cal 2 | 2 | ✓ | 10.0 | 9.3 | 92.8 |
| MJ Cal 3 | 3 | ✓ | 20.0 | 19.9 | 99.5 |
| MJ Cal 4 | 4 | ✓ | 50.0 | 53.9 | 107.8 |
| MJ Cal 5 | 5 | ✓ | 75.0 | 65.4 | 87.2 |
| MJ Cal 6 | 6 | ✓ | 100.0 | 99.8 | 99.8 |
| MJ Cal 7 | 7 | ✓ | 250.0 | 273.1 | 109.2 |

15

# AM #26 Cannabinoids Screen Calibration Curve Report

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Last Cal. Update** | 12/18/2019 1:20 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 | 93.0 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 3.2 | 107.4 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 5.5 | 109.9 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 9.9 | 98.8 |
| MJ Cal 5 | 5 | ✓ | 25.0 | 21.0 | 83.8 |
| MJ Cal 6 | 6 | ✓ | 50.0 | 53.5 | 107.0 |
| MJ Cal 7 | 7 | × | 100.0 | 143.7 | 143.7 |

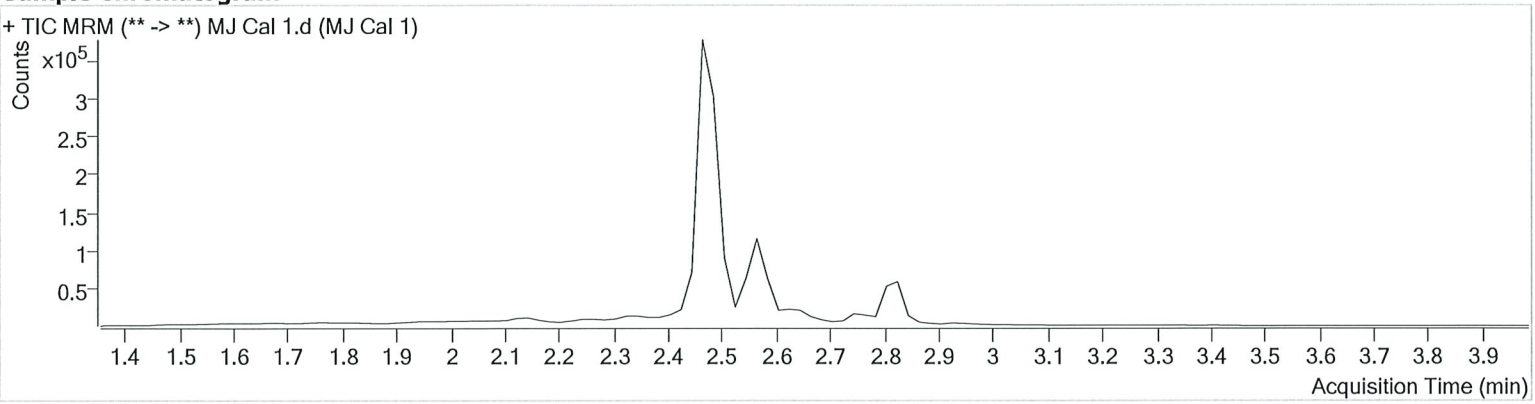
TS

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin
**Calibration Last Update** 12/18/2019 1:20:17 PM

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 1.d |
| **Type** | Cal | **Sample** | MJ Cal 1 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-A1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:10:30 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | | |
|---|---|---|---|---|---|---|
| THC | 2.839 | 914 | 131488 | 1.1634 | ng/ml | **Low** |
| THC-COOH | 2.565 | 11918 | 194652 | 5.1821 | ng/ml | |
| THC-OH | 2.471 | 11054 | 961551 | 0.9298 | ng/ml | **Low** |

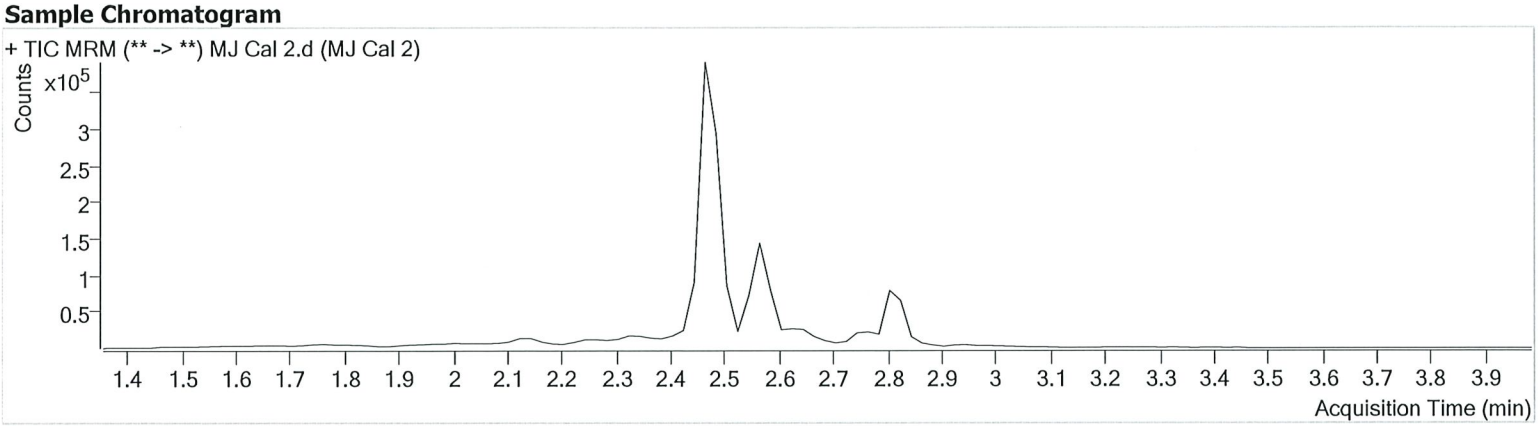
15

# AM #26 Cannabinoids Screen Results

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 2.d |
| **Type** | Cal | **Sample** | MJ Cal 2 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-B1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:17:10 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | | |
|---|---|---|---|---|---|---|
| THC | 2.819 | 3202 | 167795 | 2.8782 | ng/ml | **Low** |
| THC-COOH | 2.565 | 26925 | 230356 | 9.2750 | ng/ml | |
| THC-OH | 2.471 | 29680 | 967688 | 3.2225 | ng/ml | |

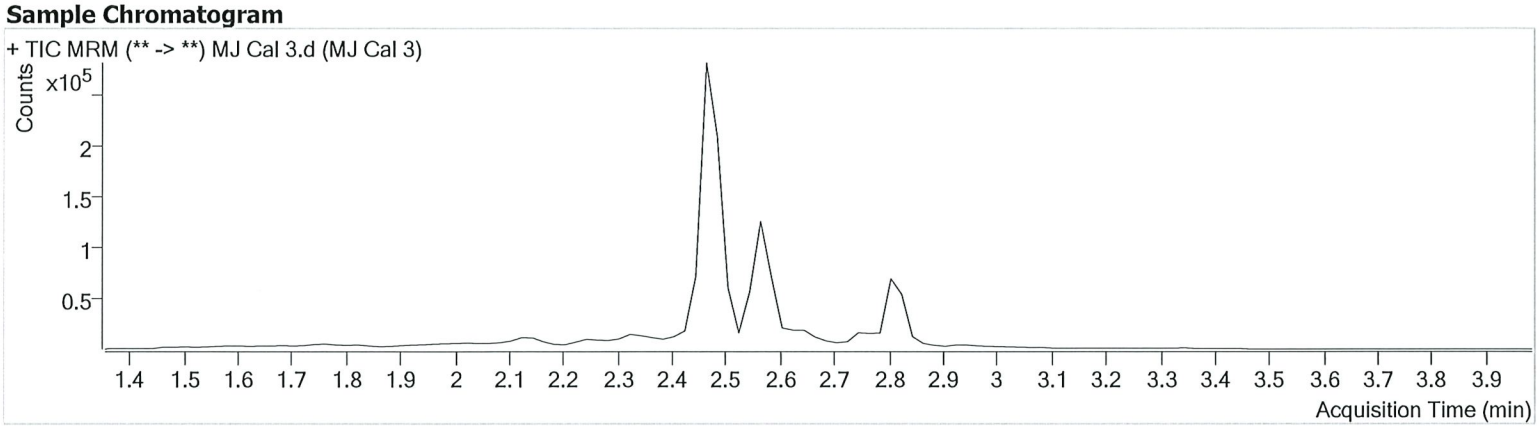
# AM #26 Cannabinoids Screen Results

15

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 3.d |
| **Type** | Cal | **Sample** | MJ Cal 3 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-C1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:23:41 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.819 | 4725 | 140069 | 4.9483 | ng/ml |
| THC-COOH | 2.565 | 42929 | 164235 | 19.9013 | ng/ml |
| THC-OH | 2.471 | 33738 | 679085 | 5.4958 | ng/ml |

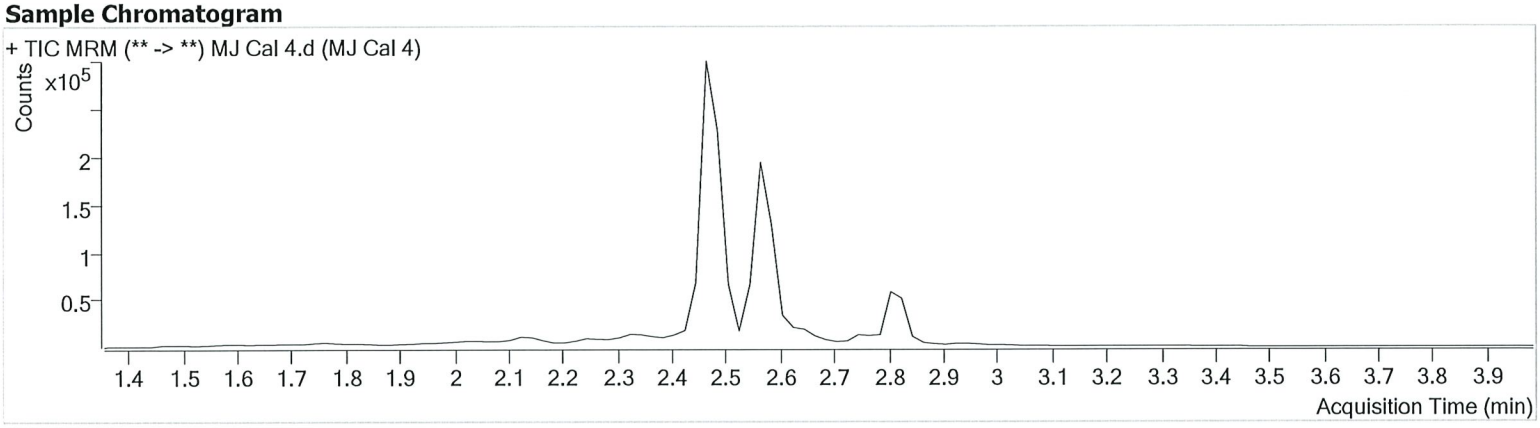
15

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin
**Calibration Last Update** 12/18/2019 1:20:17 PM

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 4.d |
| **Type** | Cal | **Sample** | MJ Cal 4 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-D1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:30:11 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.819 | 8829 | 120683 | 10.5204 | ng/ml |
| THC-COOH | 2.565 | 115278 | 159255 | 53.9108 | ng/ml |
| THC-OH | 2.471 | 58783 | 680495 | 9.8844 | ng/ml |

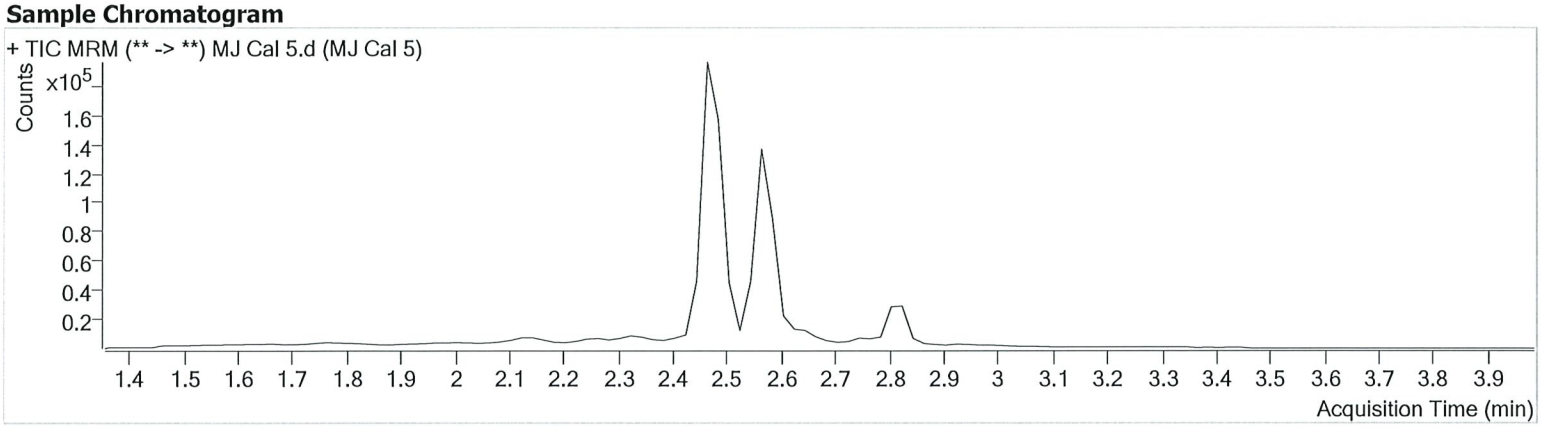
# AM #26 Cannabinoids Screen Results

TS

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 5.d |
| **Type** | Cal | **Sample** | MJ Cal 5 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-E1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:36:41 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**



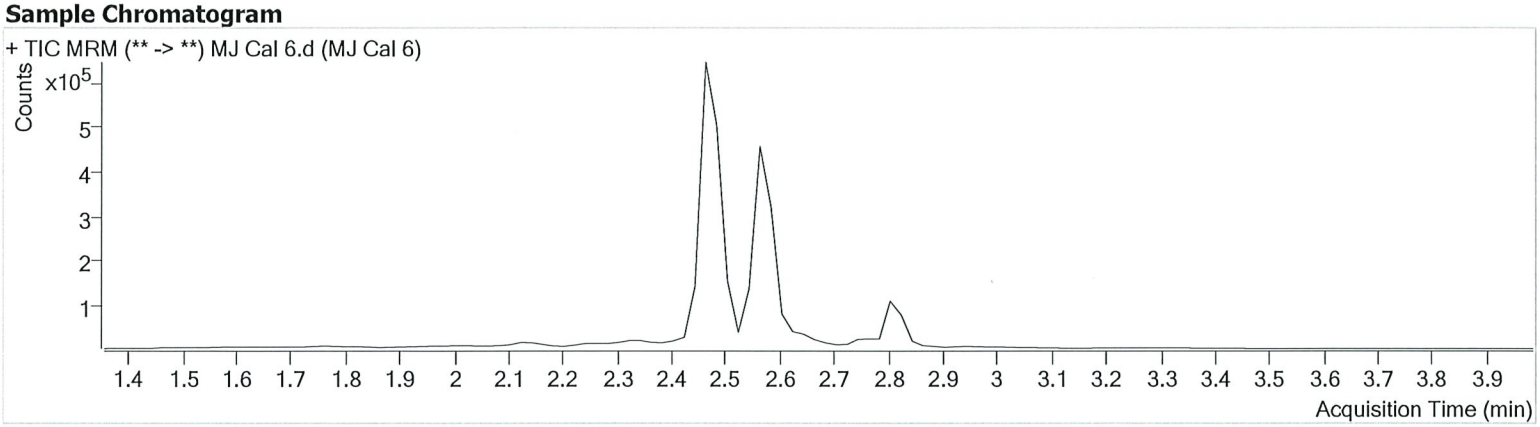

| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.839 | 8015 | 52799 | 21.6324 | ng/ml |
| THC-COOH | 2.565 | 85929 | 97599 | 65.4246 | ng/ml |
| THC-OH | 2.471 | 74436 | 415903 | 20.9563 | ng/ml |

# AM #26 Cannabinoids Screen Results

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 6.d |
| **Type** | Cal | **Sample** | MJ Cal 6 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-F1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:43:12 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.819 | 49736 | 159820 | 44.1595 | ng/ml |
| THC-COOH | 2.565 | 330155 | 244952 | 99.7972 | ng/ml |
| THC-OH | 2.471 | 488273 | 1082099 | 53.5112 | ng/ml |

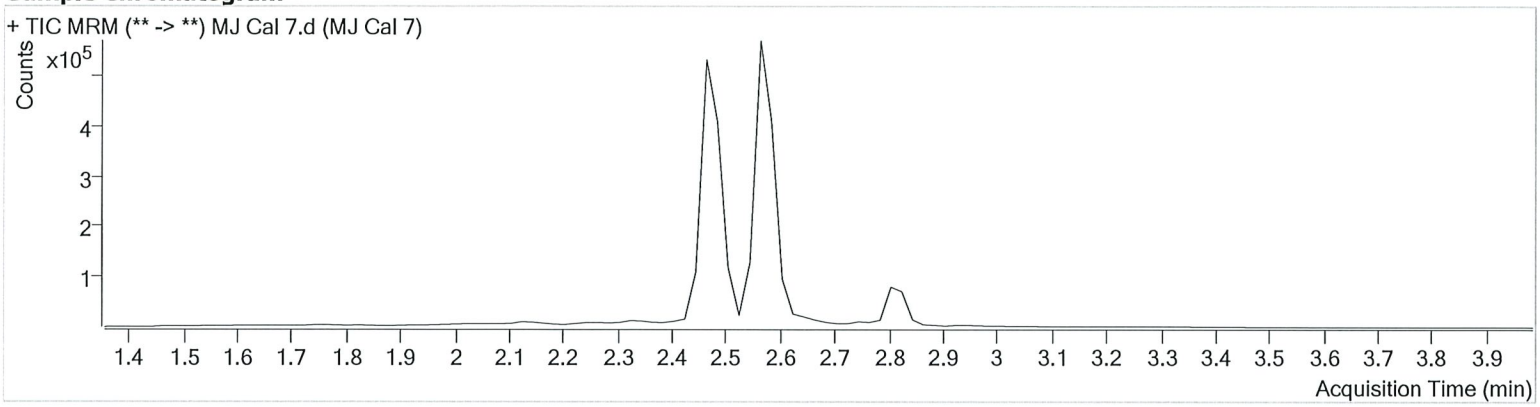
TS

# AM #26 Cannabinoids Screen Results

| | |
|---|---|
| **Batch results** | D:\MassHunter\Data\2019\AM 25-26\121719 wklst 3889 TS\QuantResults\AM 26 THCS.batch.bin |
| **Calibration Last Update** | 12/18/2019 1:20:17 PM |

| | | | |
|---|---|---|---|
| **Instrument** | Falco | **Data File** | MJ Cal 7.d |
| **Type** | Cal | **Sample** | MJ Cal 7 |
| **Acq. Method** | am 26 test.m | **Operator** | Tamara Salazar |
| **Sample Position** | P3-G1 | **Comment** | |
| **Injection Volume** | 10 | | |
| **Acq. Date-Time** | 12/18/2019 9:49:42 AM | | |
| **Sample Info.** | | | |

**Sample Chromatogram**




| Name | RT | Resp. | ISTD Resp. | Final Conc. | |
|---|---|---|---|---|---|
| THC | 2.819 | 73555 | 95789 | 108.6978 | ng/ml |
| THC-COOH | 2.565 | 496272 | 133954 | 273.1235 | ng/ml |
| THC-OH | 2.471 | 704999 | 585026 | 143.6533 | ng/ml |