



















CS

REVIEWED
By Tamara Salazar at 12:20 pm, Feb 25, 2020

Worklist: 4023

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|------------------|--|---|
| M2020-0097 | 3 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| M2020-0306 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| M2020-0346 | 3 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| M2020-0448 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| M2020-0591 | 3 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2019-3936 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0028 | 3 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0063 | 1 | BLOOD | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0136 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0160 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0429 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0441 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0488 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0489 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0498 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0498 | 3 | URINE | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0511 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2020-0512 | 1 | UCK | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

*MDS (batch IDP-107-190725)- Expiration is 1/25/2020

*THC (batch IDP-108-190716)- Expiration is 1/16/2020

*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020

*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

Celena Shrum

Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead

AM# 28: Multi-Drug Quantitation by LC-MS/MS

Extraction Date: 02/19/2020

Analyst: Celena Shrum

Plate lot#: 190729

Plate Expiration: 01/29/20- Deviation in place

Mobile phase A: 5mM Amm Form + 0.01% FA

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot: 445283-3

Urine Blank lot: POC031319

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

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. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette **250µL blood (calibrated pipette) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 0.5M 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/urine+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. **Urine samples add 50 ul 1% HCl in MeOH**. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Cal 1 had to be reinjected due to poor ISTD response for some compounds.

Curve limits: 7-aminoclonazepam: 5-250, Amphetamine 5-250, Dihydrocodeine: 5-500, Lamotrigine 5-250, Lorazepam 10-1000, Methamphetamine 5-500, Metoprolol: 5-500, Phentermine: 5-500, Quetiapine: 5-500



Idaho State Police Forensic Services

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AM #25 Blood Multi-Drug Screen by LCMS-QQQ And AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 031319)

100 ul of 1mg/mL stock was added to each drug to 9700 ul of LC MeOH.

**Made for the AM 28 urine validation*

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> | <i>Expiration Date</i> |
|----------------------|----------------|--------------------------|------------------------|
| Methanol (LCMS) | Fisher | 184782 | |
| O-desmethyl Tramadol | Cerilliant | FN01241702 | 04/30/2022 |
| Amphetamine | Cerilliant | FE04061701 | 06/30/2022 |
| Alprazolam | Cerilliant | FE07061604 | 07/31/2021 |
| Prepared: | 03/13/19 | | |
| Prepared By: | Tamara Salazar | | |
| Expires: | 03/13/2020 | | |

Blood External Control Solution (Lot: WS010820)

100 ul of methanol external control solution was added to 9900 ul of blood.

Approximately 100ng/mL of each compound.

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------------------------|----------------|--------------------------|
| Negative Blood | Hemostat | 445283-3 |
| Methanol External Control Solution | | 031319 |
| Prepared: | 01/08/2020 | |
| Prepared by: | Tamara Salazar | |
| Expires: | 03/13/2020 | |



Idaho State Police Forensic Services

AM #28 Blood and Urine Multi-Drug Confirmation 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.

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|-----------------------------|---------------|--------------------------|
| Methanol (LCMS) | Fisher | 184782 |
| Morphine | Cerilliant | FE08141515 |
| Metoprolol | Cerilliant | FN06091510 |
| Flunitrazepam | Cerilliant | FE08051602 |
| Trazodone | Cerilliant | FN12151403 |
| Prepared: 04/27/19 | | |
| Prepared By: Tamara Salazar | | |

Urine External Control Solution (Lot: WS111519)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------------------------|---------------|--------------------------|
| Negative Urine | Pocatello Lab | POC031319 |
| Methanol External Control Solution | | 042719 |
| Prepared: | 11/15/19 | |
| Prepared by: | Celena Shrum | |

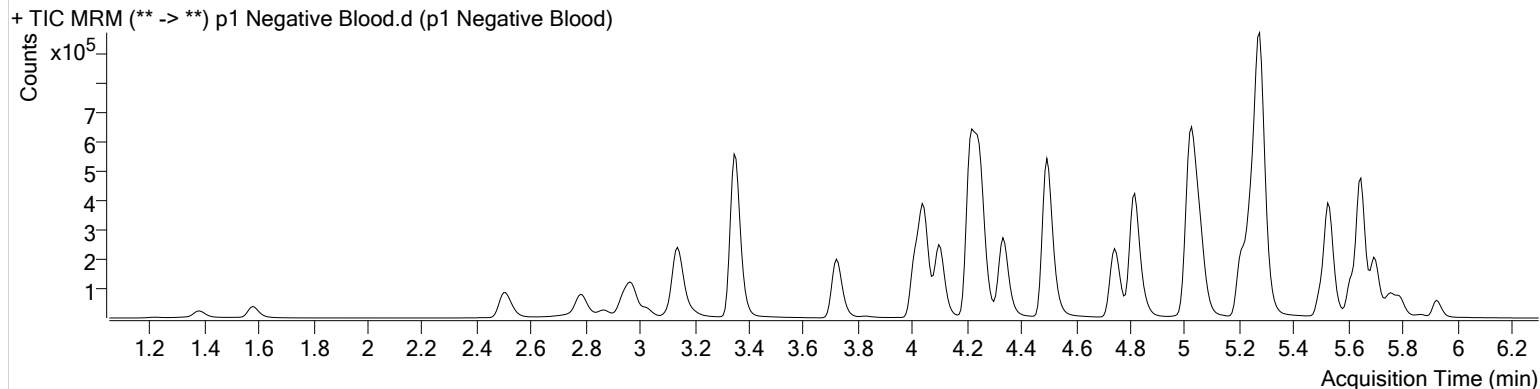
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|---------------------|
| Instrument | Falco | Data File | p1 Negative Blood.d |
| Type | Sample | Sample | p1 Negative Blood |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-E6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 4:42:12 AM | | |
| Sample Info. | | | |

Sample Chromatogram



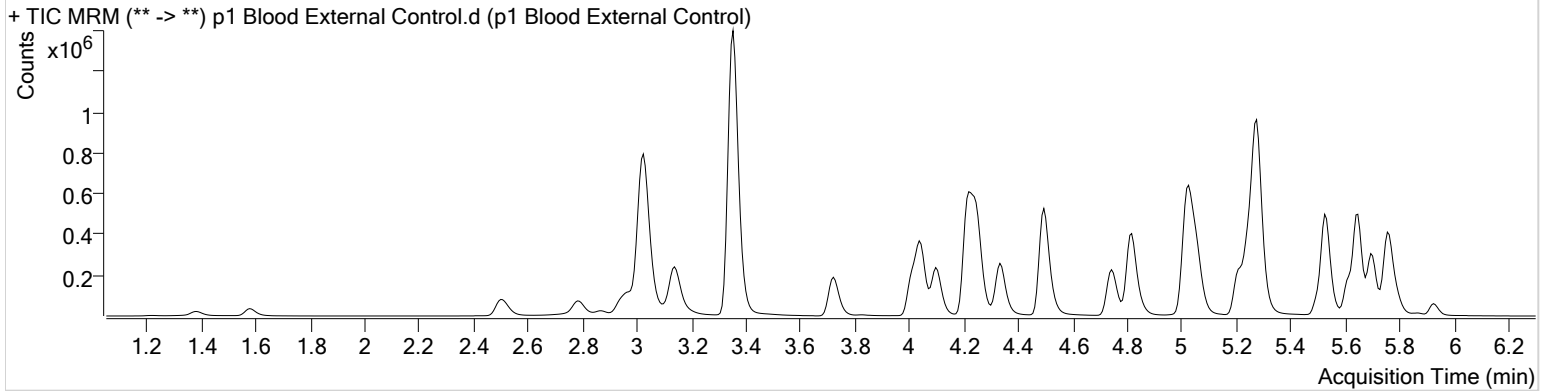
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|-----------------------------|
| Instrument | Falco | Data File | p1 Blood External Control.d |
| Type | Sample | Sample | p1 Blood External Control |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-F6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 4:52:48 AM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|---------------|
| Alprazolam | 5.756 | 371682 | 2742.90 | 100.4 | 1540.90 | 108367 | 90.9604 ng/ml |
| Amphetamine | 3.028 | 1590709 | 14622.10 | 52.9 | 37348.42 | 226683 | 98.7973 ng/ml |
| O-desmethyl-tramadol | 3.354 | 2341049 | 149117.47 | 6.0 | 5139.24 | 1309885 | 97.4982 ng/ml |

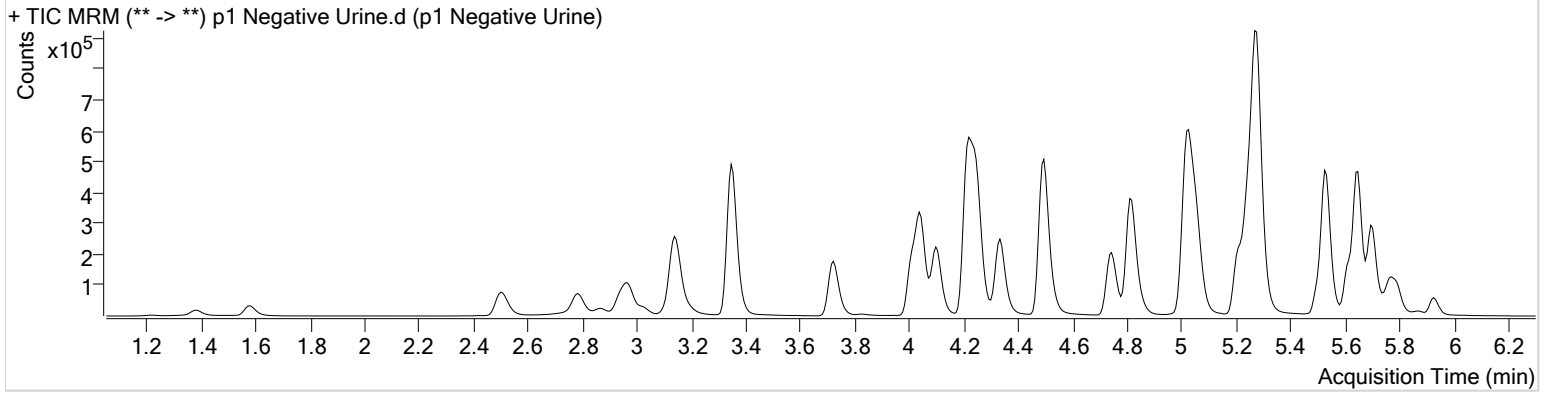
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|---------------------|
| Instrument | Falco | Data File | p1 Negative Urine.d |
| Type | Sample | Sample | p1 Negative Urine |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-G6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 5:03:22 AM | | |
| Sample Info. | | | |

Sample Chromatogram



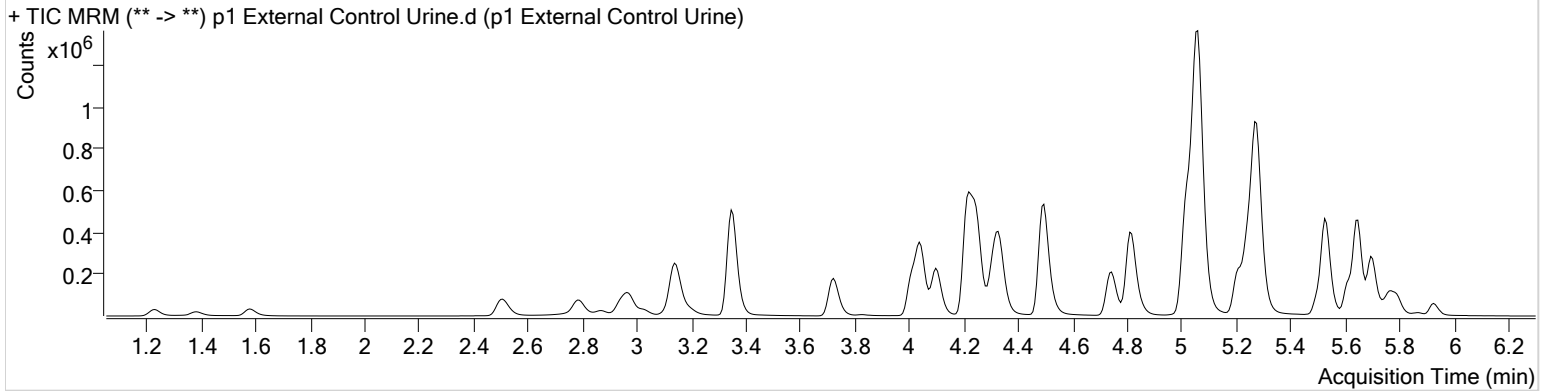
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|-----------------------------|
| Instrument | Falco | Data File | p1 External Control Urine.d |
| Type | Sample | Sample | p1 External Control Urine |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-H6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 5:13:57 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|------------|-------|---------|----------|----------------|-----------------|------------|----------------|
| Clonazepam | 5.627 | 3060 | 71.94 | 7.7 Low | 8.38 Low | 5841 | 6.1844 ng/ml |
| Metoprolol | 4.313 | 318388 | ∞ | 96.6 | 15605.09 | 1328180 | 127.0438 ng/ml |
| Morphine | 1.233 | 71661 | 19832.06 | 23.6 | 6780.51 | 5917 | 125.8496 ng/ml |
| Trazodone | 5.058 | 1666671 | 82930.21 | 79.5 | ∞ | 627149 | 119.1841 ng/ml |

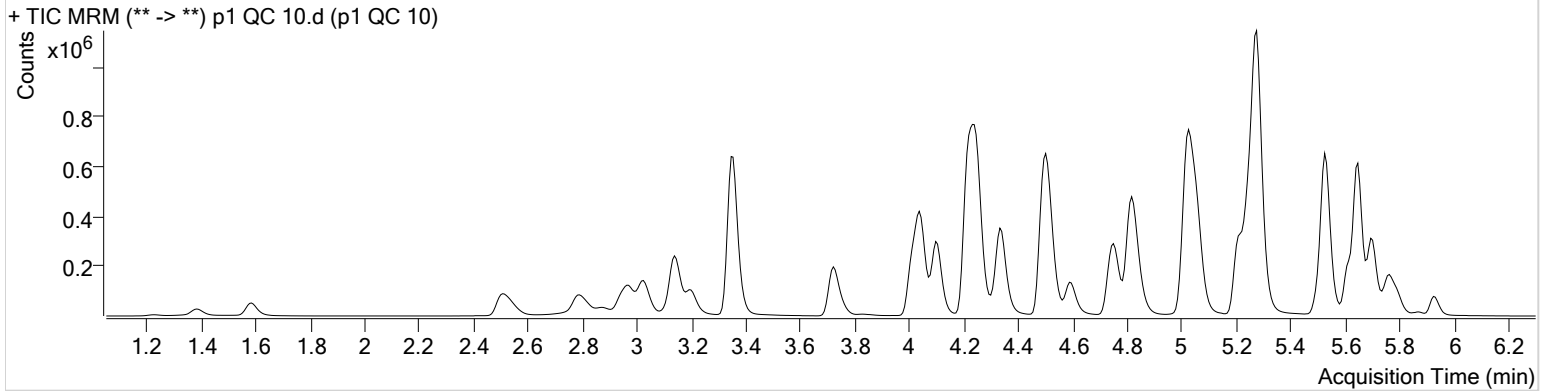
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|--------------|
| Instrument | Falco | Data File | p1 QC 10.d |
| Type | QC | Sample | p1 QC 10 |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-A6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 2:56:13 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|----------|-------|---------|------------|---------------|
| 6-MAM | 3.123 | 2145 | 247.23 | 67.4 | 183.40 | 47629 | 1.0219 ng/ml |
| 7-aminoclonazepam | 4.237 | 20901 | 1071.81 | 82.7 | 142.64 | 87789 | 9.8230 ng/ml |
| a-hydroxyalprazolam | 5.680 | 3243 | 227.72 | 63.1 | 3878.33 | 7476 | 9.1114 ng/ml |
| alpha-PVP | 4.344 | 150308 | 1937.52 | 51.5 | 8307.57 | 683709 | 9.8371 ng/ml |
| Alprazolam | 5.756 | 45198 | 1215.41 | 104.0 | 593.19 | 118275 | 10.2078 ng/ml |
| Amphetamine | 3.028 | 194007 | 2958.51 | 53.9 | 1608.63 | 229769 | 10.3462 ng/ml |
| Benzoylcegonine | 3.853 | 2924 | ∞ | 7.4 | 16.55 | 11441 | 10.3252 ng/ml |
| Buprenorphine | 5.679 | 5253 | 125.23 | 14.3 | 50.25 | 187396 | 1.0473 ng/ml |
| Bupropion | 4.766 | 177904 | 20771.36 | 59.1 | 3021.87 | 627626 | 9.8794 ng/ml |
| Carisoprodol | 5.705 | 27490 | 1744.72 | 56.3 | 140.83 | 135800 | 10.1069 ng/ml |
| Citalopram | 5.209 | 130822 | 311.45 | 39.9 | ∞ | 590727 | 9.9443 ng/ml |
| Clonazepam | 5.593 | 6167 | 452.52 | 34.0 | 62.37 | 7891 | 9.8414 ng/ml |
| Cocaine | 4.243 | 133338 | 73347.19 | 44.1 | 3964.60 | 1081977 | 9.8264 ng/ml |
| Codeine | 2.563 | 15281 | 603.54 | 97.5 | 412.29 | 63361 | 10.4289 ng/ml |
| Cyclobenzaprine | 5.617 | 95946 | 6363.14 | 9.4 | 7620.41 | 353071 | 10.2958 ng/ml |
| Dextromethorphan | 5.258 | 81614 | 301.48 | 80.4 | 2018.13 | 373828 | 10.0031 ng/ml |
| Dextrorphan | 4.106 | 46055 | 4238.26 | 214.6 | 7041.07 | 581834 | 10.1065 ng/ml |
| Diazepam | 5.934 | 26131 | ∞ | 91.2 | 748.47 | 125972 | 9.9445 ng/ml |
| Dihydrocodeine | 2.541 | 39303 | 28950.55 | 69.0 | 5618.43 | 218837 | 10.1569 ng/ml |
| Diphenhydramine | 5.279 | 306549 | 5062.56 | 34.1 | 1402.61 | 2167317 | 10.3485 ng/ml |
| Doxylamine | 4.514 | 346285 | 4237.81 | 96.7 | 6041.24 | 1471633 | 9.1697 ng/ml |
| EDDP | 5.251 | 104267 | 1376.66 | 40.1 | 254.43 | 538291 | 10.1982 ng/ml |
| Fentanyl | 5.072 | 10274 | 221.18 | 74.3 | 173.63 | 534084 | 1.0066 ng/ml |
| Fluoxetine | 5.702 | 90219 | 3078.99 | 9.0 | 7004.66 | 372456 | 10.5874 ng/ml |
| Hydrocodone | 3.005 | 36995 | 240.86 | 42.0 | 101.90 | 237093 | 10.0359 ng/ml |
| Hydromorphone | 1.594 | 28607 | 625.59 | 78.5 | 177.03 | 112300 | 9.8431 ng/ml |
| Ketamine | 4.026 | 116610 | 3412.48 | 36.5 | ∞ | 529982 | 10.1577 ng/ml |
| Lamotrigine | 4.261 | 10621 | 2362.01 | 81.0 | 2036.95 | 529982 | 10.8099 ng/ml |
| Lorazepam | 5.728 | 2051 | 19.52 | 53.5 | 11.66 | 7891 | 10.1091 ng/ml |
| Meprobamate | 4.881 | 7113 | ∞ | 25.0 | 127.07 | 35017 | 9.6338 ng/ml |
| Methadone | 5.648 | 189038 | 1172.01 | 53.7 | 4903.76 | 881363 | 10.2741 ng/ml |
| Methamphetamine | 3.202 | 175228 | 1935.74 | 41.8 | 1385.19 | 630466 | 10.7561 ng/ml |
| Metoprolol | 4.313 | 32009 | 21290.60 | 96.9 | 2810.28 | 1435649 | 10.6484 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|----------|------------|---------------|
| Mirtazapine | 4.589 | 226770 | 10429.37 | 49.6 | 3639.69 | 683709 | 9.7103 ng/ml |
| Mitragynine | 5.200 | 39164 | 7953.38 | 38.0 | 2162.30 | 881363 | 10.7193 ng/ml |
| Morphine | 1.233 | 6326 | 800.50 | 25.3 | 403.57 | 5965 | 10.3274 ng/ml |
| Norbuprenorphine | 4.976 | 249 | 30.52 | 74.7 | 1554.36 | 9959 | 1.1287 ng/ml |
| Nordiazepam | 5.874 | 5481 | 462.67 | 57.6 | 482.50 | 16761 | 10.5095 ng/ml |
| Norfentanyl | 4.068 | 18854 | 273.70 | 38.1 | 117.02 | 820481 | 0.9379 ng/ml |
| Norhydrocodone | 3.046 | 6747 | 81.74 | 38.5 | 181.80 | 63672 | 9.5295 ng/ml |
| Noroxycodone | 2.896 | 24710 | 1105.92 | 50.6 | 17.58 | 76948 | 10.1719 ng/ml |
| O-desmethyl-tramadol | 3.354 | 267684 | 14980.77 | 6.1 | 1007.77 | 1436687 | 10.0061 ng/ml |
| Oxazepam | 5.738 | 2124 | 40.04 | 72.7 | 6.91 | 11771 | 11.0081 ng/ml |
| Oxycodone | 2.814 | 64278 | 1624.88 | 33.1 | 790.85 | 281553 | 10.3822 ng/ml |
| Oxymorphone | 1.390 | 19346 | 1288.30 | 48.4 | 348.65 | 72519 | 9.8167 ng/ml |
| Phentermine | 3.758 | 49429 | 1463.95 | 2.8 | 67.56 | 541898 | 10.5685 ng/ml |
| Promethazine | 5.534 | 220635 | 2294.62 | 29.8 | 3002.21 | 995404 | 10.2952 ng/ml |
| Quetiapine | 5.517 | 172339 | ∞ | 58.9 | 525.89 | 235135 | 10.6340 ng/ml |
| Sertraline | 5.770 | 31005 | 1264.33 | 91.3 | 2512.14 | 134071 | 9.9914 ng/ml |
| Temazepam | 5.798 | 21642 | 179.52 | 30.0 | 64.67 | 106703 | 10.6052 ng/ml |
| Tramadol | 4.233 | 290037 | 21495.06 | 3.5 | 170.55 | 1435649 | 10.6367 ng/ml |
| Trazodone | 5.058 | 146669 | 43039.74 | 79.7 | 17563.71 | 611523 | 10.2311 ng/ml |
| Venlafaxine | 5.027 | 224868 | 14594.84 | 36.2 | 7655.53 | 1188431 | 10.0926 ng/ml |
| Zolpidem | 4.837 | 237598 | 1549.17 | 30.7 | 3981.80 | 1116411 | 10.1536 ng/ml |

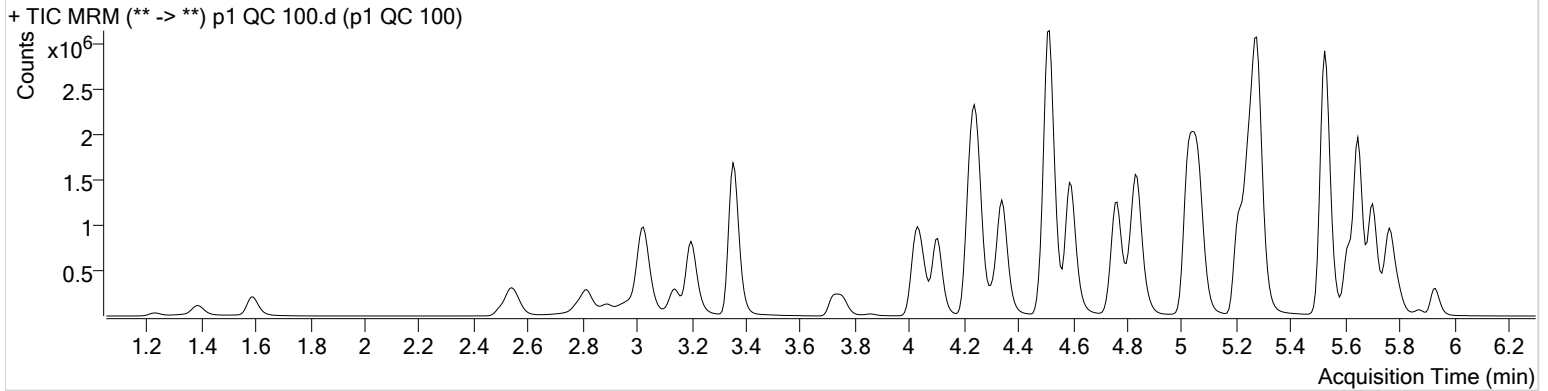
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|--------------|
| Instrument | Falco | Data File | p1 QC 100.d |
| Type | QC | Sample | p1 QC 100 |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-B6 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 3:17:26 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|-----------|-------|----------|------------|----------------|
| 6-MAM | 3.123 | 22220 | 9048.78 | 68.9 | 2269.40 | 51159 | 10.1777 ng/ml |
| 7-aminoclonazepam | 4.237 | 212680 | ∞ | 80.5 | 865.69 | 102858 | 93.7562 ng/ml |
| a-hydroxyalprazolam | 5.680 | 34006 | 243.86 | 62.5 | 121.99 | 7722 | 95.9260 ng/ml |
| alpha-PVP | 4.344 | 1643130 | 107490.59 | 51.0 | 2419.69 | 743978 | 96.1312 ng/ml |
| Alprazolam | 5.756 | 465838 | ∞ | 101.7 | ∞ | 127513 | 96.8808 ng/ml |
| Amphetamine | 3.028 | 1715066 | 9953.76 | 53.0 | 33654.65 | 249525 | 96.7337 ng/ml |
| Benzoylcegonine | 3.860 | 30291 | 3183.07 | 8.1 | 130.05 | 12622 | 98.6631 ng/ml |
| Buprenorphine | 5.679 | 51269 | 2887.81 | 16.0 | 649.69 | 187215 | 9.7785 ng/ml |
| Bupropion | 4.766 | 1939887 | 11972.36 | 58.7 | 21011.84 | 699048 | 104.9859 ng/ml |
| Carisoprodol | 5.712 | 245532 | 843.58 | 56.3 | 1243.41 | 122288 | 100.6915 ng/ml |
| Citalopram | 5.215 | 1311277 | 3578.06 | 39.7 | 2714.94 | 606439 | 97.1023 ng/ml |
| Clonazepam | 5.593 | 55445 | 528.10 | 35.0 | 1363.29 | 7766 | 100.1184 ng/ml |
| Cocaine | 4.250 | 1388798 | 104835.44 | 44.7 | 41581.61 | 1127311 | 95.3983 ng/ml |
| Codeine | 2.563 | 150522 | 1716.14 | 100.2 | 26451.19 | 66739 | 103.9129 ng/ml |
| Cyclobenzaprine | 5.617 | 1129283 | 1058.72 | 9.7 | 936.35 | 441660 | 97.6691 ng/ml |
| Dextromethorphan | 5.258 | 829618 | 31473.52 | 79.9 | 40926.16 | 388751 | 97.6747 ng/ml |
| Dextropropoxyphene | 4.106 | 493136 | 8351.39 | 210.9 | 54324.67 | 620831 | 100.9483 ng/ml |
| Diazepam | 5.934 | 302460 | 7524.91 | 87.1 | 3555.43 | 143957 | 102.2700 ng/ml |
| Dihydrocodeine | 2.534 | 408267 | 5177.73 | 67.9 | 4376.19 | 249215 | 102.1035 ng/ml |
| Diphenhydramine | 5.279 | 3132836 | 228283.32 | 33.7 | 69276.59 | 2240427 | 95.3670 ng/ml |
| Doxylamine | 4.514 | 4014453 | 246780.29 | 96.0 | 16586.80 | 1730880 | 109.5569 ng/ml |
| EDDP | 5.251 | 1381497 | 20727.51 | 41.9 | 5378.36 | 750377 | 98.4034 ng/ml |
| Fentanyl | 5.072 | 126283 | 6416.98 | 73.3 | 1315.75 | 637049 | 9.9433 ng/ml |
| Fluoxetine | 5.702 | 1405423 | 6111.43 | 8.9 | 2203.39 | 601879 | 100.4549 ng/ml |
| Hydrocodone | 3.005 | 397124 | ∞ | 41.7 | 303.75 | 274373 | 98.9981 ng/ml |
| Hydromorphone | 1.594 | 305066 | ∞ | 79.0 | 900.61 | 127182 | 95.7405 ng/ml |
| Ketamine | 4.026 | 1222396 | 3964.45 | 37.3 | 1043.60 | 585625 | 103.0462 ng/ml |
| Lamotrigine | 4.261 | 97304 | 15624.41 | 79.2 | 16765.62 | 585625 | 101.7805 ng/ml |
| Lorazepam | 5.728 | 20990 | 170.44 | 55.8 | 69.33 | 7766 | 96.3623 ng/ml |
| Meprobamate | 4.881 | 73381 | 7553.85 | 26.9 | 1259.63 | 36374 | 93.5487 ng/ml |
| Methadone | 5.648 | 2030540 | ∞ | 55.8 | 7535.43 | 981272 | 98.6426 ng/ml |
| Methamphetamine | 3.202 | 1673396 | 63572.57 | 42.4 | 4206.99 | 713164 | 105.3256 ng/ml |
| Metoprolol | 4.313 | 302454 | 381743.36 | 96.9 | ∞ | 1508800 | 106.0274 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine | 4.589 | 2614709 | 588259.60 | 49.5 | 14635.87 | 743978 | 104.8864 ng/ml |
| Mitragynine | 5.207 | 413675 | 31358.15 | 39.0 | 17125.35 | 981272 | 104.3305 ng/ml |
| Morphine | 1.233 | 72412 | 23600.01 | 23.6 | 1398.89 | 7385 | 101.7459 ng/ml |
| Norbuprenorphine | 4.983 | 2277 | 135.50 | 81.2 | 175.05 | 11051 | 10.3844 ng/ml |
| Nordiazepam | 5.874 | 63952 | 2318.81 | 56.1 | 3143.33 | 20892 | 100.1405 ng/ml |
| Norfentanyl | 4.068 | 213414 | 98491.67 | 37.8 | ∞ | 889138 | 9.5392 ng/ml |
| Norhydrocodone | 3.053 | 82440 | 1131.64 | 42.4 | 588.34 | 73677 | 96.7653 ng/ml |
| Noroxycodone | 2.896 | 243907 | 1027.45 | 50.9 | 561.55 | 80645 | 100.3869 ng/ml |
| O-desmethyl-tramadol | 3.354 | 2840004 | 136955.73 | 6.0 | 11879.69 | 1543080 | 100.4090 ng/ml |
| Oxazepam | 5.738 | 20031 | 84.60 | 71.6 | 38.70 | 12154 | 101.3654 ng/ml |
| Oxycodone | 2.814 | 675414 | 5893.65 | 32.6 | 2318.51 | 316117 | 101.3555 ng/ml |
| Oxymorphone | 1.390 | 240860 | 749.67 | 49.4 | 961.25 | 90290 | 103.0197 ng/ml |
| Phentermine | 3.758 | 439628 | 5657.66 | 2.8 | 1223.74 | 584939 | 100.0814 ng/ml |
| Promethazine | 5.534 | 2653904 | 3720.82 | 30.0 | 4575.43 | 1224739 | 94.9121 ng/ml |
| Quetiapine | 5.517 | 1808059 | 37699.95 | 60.6 | 3324.32 | 276428 | 101.8003 ng/ml |
| Sertraline | 5.770 | 615814 | 1222.15 | 88.6 | 7979.25 | 272300 | 96.1389 ng/ml |
| Temazepam | 5.798 | 207225 | 2114.31 | 29.4 | 191.88 | 106453 | 100.7553 ng/ml |
| Tramadol | 4.233 | 2848908 | 4969.27 | 3.3 | 741.14 | 1508800 | 108.8829 ng/ml |
| Trazodone | 5.058 | 1671819 | 184470.80 | 78.8 | 71147.41 | 720092 | 104.0485 ng/ml |
| Venlafaxine | 5.027 | 2360988 | 84270.91 | 35.7 | 12027.19 | 1258398 | 96.9409 ng/ml |
| Zolpidem | 4.837 | 2650729 | 101082.14 | 30.1 | 50800.93 | 1263756 | 104.9320 ng/ml |

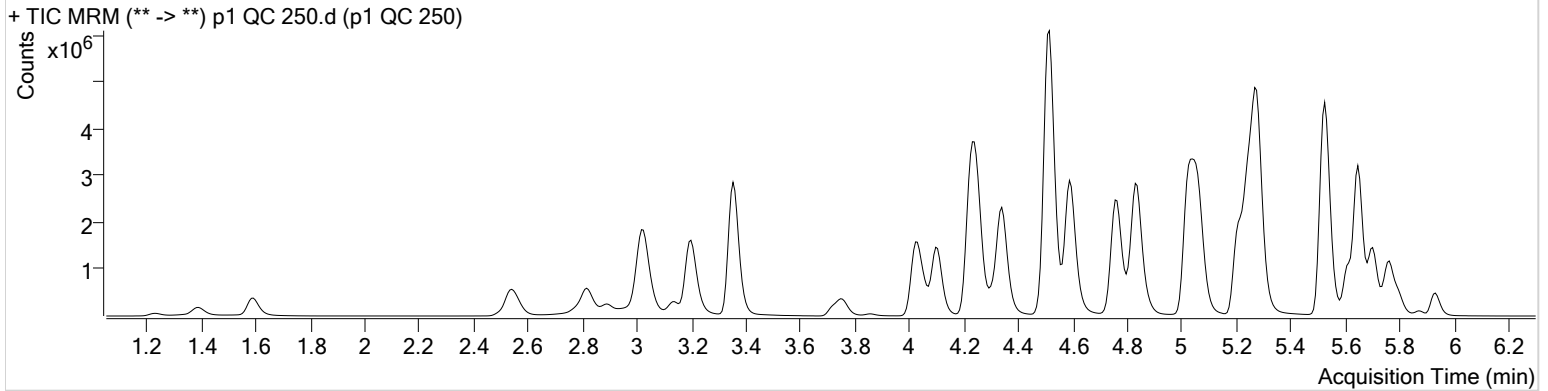
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

Instrument Falco **Data File** p1 QC 250.d
Type QC **Sample** p1 QC 250
Acq. Method MDQ P1 01112020.m **Operator** Celena Shrum
Sample Position P1-C6 **Comment**
Injection Volume 2
Acq. Date-Time 2/20/2020 3:38:36 AM
Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| 6-MAM | 3.116 | 49562 | 57784.52 | 70.3 | 9195.62 | 46094 | 25.2513 ng/ml |
| 7-aminoclonazepam | 4.231 | 305490 | 8941.39 | 79.1 | 33319.04 | 67533 | 206.4175 ng/ml |
| a-hydroxyalprazolam | 5.680 | 70525 | 2263.61 | 63.6 | 567.01 | 6550 | 235.0891 ng/ml |
| alpha-PVP | 4.344 | 3509633 | 423301.64 | 51.0 | 4543.87 | 624863 | 244.0126 ng/ml |
| Alprazolam | 5.756 | 906576 | 2348.03 | 101.8 | 2152.22 | 94067 | 255.4437 ng/ml |
| Amphetamine | 3.028 | 3311542 | 62528.24 | 52.7 | 91400.21 | 220647 | 213.2979 ng/ml |
| Benzoylcegonine | 3.853 | 68803 | ∞ | 8.0 | 1627.24 | 11210 | 252.6317 ng/ml |
| Buprenorphine | 5.679 | 105291 | 3438.08 | 16.1 | 10964.84 | 148474 | 25.2399 ng/ml |
| Bupropion | 4.766 | 4235261 | 5450.08 | 58.1 | 2223.77 | 611820 | 263.2949 ng/ml |
| Carisoprodol | 5.705 | 538297 | 25278.44 | 55.1 | 240.11 | 106352 | 253.9088 ng/ml |
| Citalopram | 5.209 | 2598539 | 2249.04 | 40.4 | 6660.75 | 475320 | 245.5094 ng/ml |
| Clonazepam | 5.593 | 143893 | ∞ | 34.8 | 2693.42 | 7837 | 259.4533 ng/ml |
| Cocaine | 4.250 | 2737535 | ∞ | 45.0 | 85881.15 | 881038 | 240.1283 ng/ml |
| Codeine | 2.563 | 291778 | 1942.69 | 100.0 | 667.97 | 52838 | 255.5299 ng/ml |
| Cyclobenzaprine | 5.617 | 1879136 | 25239.88 | 9.7 | 7593.88 | 286718 | 250.4965 ng/ml |
| Dextromethorphan | 5.252 | 1568766 | 1255.51 | 79.1 | 217610.10 | 290021 | 247.5554 ng/ml |
| Dextrorphan | 4.100 | 1052944 | 1657.36 | 210.8 | 113945.36 | 520444 | 257.0406 ng/ml |
| Diazepam | 5.934 | 562685 | 1374.37 | 87.7 | 1138.80 | 109870 | 249.5299 ng/ml |
| Dihydrocodeine | 2.534 | 815132 | 46227.47 | 68.2 | 53925.22 | 216243 | 236.4546 ng/ml |
| Diphenhydramine | 5.279 | 6307763 | 1304.62 | 33.4 | 1097.46 | 1727170 | 247.8171 ng/ml |
| Doxylamine | 4.514 | 8416475 | 13764.01 | 96.2 | 32922.69 | 1444946 | 278.4158 ng/ml |
| EDDP | 5.251 | 2920688 | 1753.26 | 42.0 | 947.99 | 628375 | 248.6948 ng/ml |
| Fentanyl | 5.072 | 227262 | 18483.15 | 74.5 | 471095.77 | 450014 | 25.2600 ng/ml |
| Fluoxetine | 5.702 | 1636150 | 147178.76 | 8.9 | 357700.42 | 281842 | 249.4649 ng/ml |
| Hydrocodone | 2.998 | 881929 | 1143.50 | 42.1 | 305.31 | 232157 | 260.9921 ng/ml |
| Hydromorphone | 1.594 | 632425 | 527.44 | 78.9 | 998.32 | 102266 | 247.4062 ng/ml |
| Ketamine | 4.026 | 2602344 | 329640.99 | 37.3 | 1297.73 | 503007 | 256.5702 ng/ml |
| Lamotrigine | 4.261 | 174220 | 10103.38 | 80.0 | ∞ | 503007 | 213.9754 ng/ml |
| Lorazepam | 5.728 | 50699 | 2353.60 | 55.1 | 282.47 | 7837 | 229.3538 ng/ml |
| Meprobamate | 4.881 | 167893 | 4484.96 | 25.7 | 858.22 | 31093 | 249.9881 ng/ml |
| Methadone | 5.648 | 4156272 | 6439.32 | 53.8 | 62688.51 | 792439 | 249.9383 ng/ml |
| Methamphetamine | 3.202 | 3508396 | ∞ | 42.0 | 45895.76 | 644693 | 246.8492 ng/ml |
| Metoprolol | 4.313 | 588424 | 284330.42 | 96.8 | 239065.29 | 1289640 | 242.9741 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine | 4.589 | 5201324 | ∞ | 48.9 | 76053.70 | 624863 | 248.7038 ng/ml |
| Mitragynine | 5.200 | 838000 | 63471.54 | 38.7 | 27108.47 | 792439 | 262.1779 ng/ml |
| Morphine | 1.233 | 133173 | 3704.09 | 23.9 | ∞ | 5679 | 244.4076 ng/ml |
| Norbuprenorphine | 4.983 | 5103 | 282.93 | 85.7 | 997.25 | 10014 | 25.9047 ng/ml |
| Nordiazepam | 5.874 | 122440 | 1758.44 | 56.6 | 1061.27 | 15324 | 261.7185 ng/ml |
| Norfentanyl | 4.068 | 451584 | 15043.69 | 37.2 | 16043.53 | 723970 | 24.7463 ng/ml |
| Norhydrocodone | 3.046 | 178600 | 302.39 | 42.3 | ∞ | 62264 | 247.4286 ng/ml |
| Noroxycodone | 2.889 | 513391 | 987.24 | 50.3 | 2577.72 | 68498 | 249.5766 ng/ml |
| O-desmethyl-tramadol | 3.354 | 6164198 | 468567.77 | 5.9 | 1357.91 | 1292714 | 260.4263 ng/ml |
| Oxazepam | 5.738 | 48109 | 249.26 | 71.8 | 244.96 | 12556 | 235.7986 ng/ml |
| Oxycodone | 2.814 | 1544164 | 8573.55 | 32.4 | 5882.87 | 279556 | 262.8235 ng/ml |
| Oxymorphone | 1.390 | 426564 | 5221.56 | 51.2 | 899.87 | 69262 | 238.5458 ng/ml |
| Phentermine | 3.758 | 866137 | ∞ | 2.6 | 965.39 | 514673 | 226.3209 ng/ml |
| Promethazine | 5.534 | 4678827 | 286838.53 | 29.5 | 46460.49 | 829778 | 245.9291 ng/ml |
| Quetiapine | 5.517 | 3377984 | 6578.91 | 59.9 | 4246.43 | 212863 | 248.2299 ng/ml |
| Sertraline | 5.770 | 477297 | 3629.13 | 89.7 | 2881.98 | 84362 | 240.2437 ng/ml |
| Temazepam | 5.798 | 503084 | 26661.42 | 29.1 | 654.94 | 100404 | 259.1536 ng/ml |
| Tramadol | 4.226 | 5930147 | 8565.05 | 3.3 | 8162.04 | 1289640 | 266.7897 ng/ml |
| Trazodone | 5.058 | 3136311 | ∞ | 79.6 | 68479.45 | 549492 | 256.6374 ng/ml |
| Venlafaxine | 5.027 | 5087774 | 82143.21 | 35.6 | 13268.48 | 1070616 | 245.0031 ng/ml |
| Zolpidem | 4.837 | 5528178 | 100086.06 | 29.6 | 1463.51 | 1066505 | 260.1212 ng/ml |

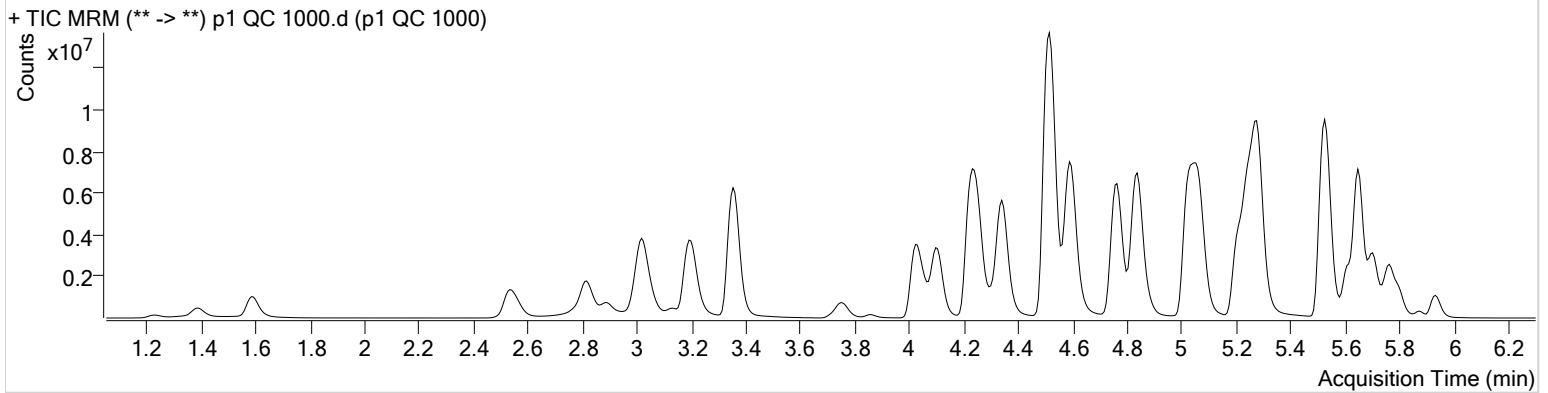
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

Instrument Falco **Data File** p1 QC 1000.d
Type QC **Sample** p1 QC 1000
Acq. Method MDQ P1 01112020.m **Operator** Celena Shrum
Sample Position P1-D6 **Comment**
Injection Volume 2
Acq. Date-Time 2/20/2020 3:59:48 AM
Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|------------------------------|------------------|--------------------|----------------------|-----------------|----------------------|-------------------|----------------------------|
| 6-MAM | 3.116 | 165838 | 15815.70 | 72.2 | 10099.00 | 36986 | 105.4184 ng/ml |
| 7-aminoclonazepam | 4.231 | 399563 | 7998.96 | 83.2 | 5319.78 | 35866 | 509.9637 ng/ml* |
| a-hydroxyalprazolam | 5.680 | 238088 | 1143.51 | 62.7 | 1181.27 | 4997 | 1041.4774 ng/ml |
| alpha-PVP | 4.344 | 10089444 | 805977.95 | 50.7 | 235920.43 | 439271 | 996.9399 ng/ml |
| Alprazolam | 5.756 | 2256333 | 2202.62 | 102.7 | 2633.98 | 57776 | 1034.8547 ng/ml |
| Amphetamine | 3.028 | 7059312 | 58531.25 | 51.4 | 138544.90 | 189685 | 531.5055 ng/ml* |
| Benzoylcegonine | 3.853 | 265655 | 5845.20 | 7.8 | ∞ | 10536 | 1038.5323 ng/ml |
| Buprenorphine | 5.679 | 246990 | 13881.18 | 16.2 | 1785.58 | 76432 | 114.8304 ng/ml |
| Bupropion | 4.766 | 12293584 | 9014.09 | 58.2 | 1040357.98 | 475231 | 986.4940 ng/ml |
| Carisoprodol | 5.712 | 1226760 | 1706.18 | 54.9 | 3816.47 | 60732 | 1013.4540 ng/ml |
| Citalopram | 5.209 | 5901485 | 1292.84 | 38.5 | ∞ | 269209 | 984.4587 ng/ml |
| Clonazepam | 5.593 | 418215 | 28391.07 | 34.0 | 38468.84 | 6505 | 911.6369 ng/ml |
| Cocaine | 4.250 | 6733957 | 1286984.71 | 43.5 | 217156.63 | 524555 | 991.1186 ng/ml |
| Codeine | 2.563 | 774572 | ∞ | 97.1 | ∞ | 38460 | 933.9655 ng/ml |
| Cyclobenzaprine | 5.617 | 4708198 | 391478.26 | 9.4 | 13749.68 | 176908 | 1017.4867 ng/ml |
| Dextromethorphan | 5.252 | 3154214 | 1517.71 | 78.6 | 90637.66 | 145666 | 990.9723 ng/ml |
| Dextrorphan | 4.106 | 2930483 | 5329.29 | 214.6 | 133556.41 | 362029 | 1028.2539 ng/ml |
| Diazepam | 5.934 | 1450704 | 4466.93 | 87.3 | 1240.05 | 70876 | 997.7808 ng/ml |
| Dihydrocodeine | 2.528 | 2234633 | 3840.15 | 68.2 | 3779.20 | 197760 | 711.1361 ng/ml* |
| Diphenhydramine | 5.286 | 14618614 | 25520.32 | 34.2 | 634.78 | 977680 | 1012.1960 ng/ml |
| Doxylamine | 4.514 | 22344865 | 540803.02 | 97.3 | 1016795.64 | 1187063 | 904.5765 ng/ml |
| EDDP | 5.251 | 9102385 | 1926.21 | 40.8 | 1865.56 | 473092 | 1030.0048 ng/ml |
| Fentanyl | 5.072 | 691725 | 129083.31 | 77.6 | 14089.01 | 303298 | 113.9142 ng/ml |
| Fluoxetine | 5.702 | 3859106 | 364281.13 | 8.9 | 79569.17 | 163923 | 1011.1005 ng/ml |
| Hydrocodone | 2.998 | 2823188 | ∞ | 42.4 | ∞ | 210563 | 922.9619 ng/ml |
| Hydromorphone | 1.587 | 1920865 | 749.44 | 79.3 | 680.39 | 80266 | 958.4542 ng/ml |
| Ketamine | 4.026 | 7363561 | 222092.76 | 36.3 | 2734.20 | 398348 | 918.7538 ng/ml |
| Lamotrigine | 4.268 | 295508 | 37114.01 | 78.9 | 34509.73 | 398348 | 460.1976 ng/ml* |
| Lorazepam | 5.728 | 215129 | 13891.64 | 56.5 | 469.20 | 6505 | 1168.6485 ng/ml |
| Meprobamate | 4.881 | 541677 | 27594.92 | 26.3 | 4047.05 | 22007 | 1138.7005 ng/ml |
| Methadone | 5.648 | 11015138 | 4029.56 | 54.8 | 126854.62 | 522003 | 1005.3997 ng/ml |
| Methamphetamine | 3.195 | 9403171 | 173594.26 | 41.1 | 129041.57 | 617178 | 694.6098 ng/ml* |
| Metoprolol | 4.313 | 1320716 | 250047.45 | 96.8 | ∞ | 943262 | 748.2785 ng/ml* |

AM #28 Multi-Drug Quant. Results



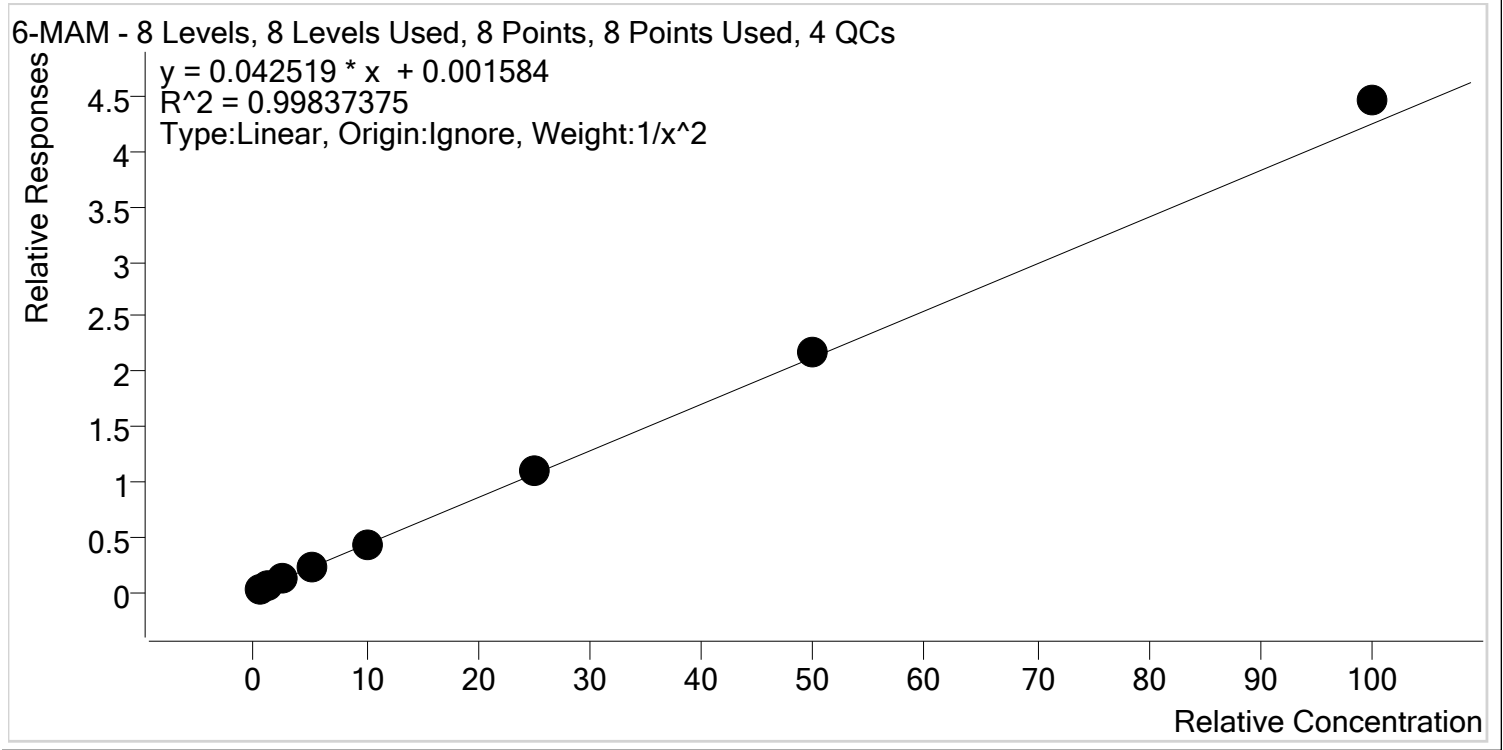
| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|------------------------|------------------|--------------------|---------------------|-----------------|---------------------|-------------------|----------------------------|
| Mirtazapine | 4.589 | 14784803 | 480912.94 | 49.4 | 538653.01 | 439271 | 1006.2573 ng/ml |
| Mitragynine | 5.200 | 2194210 | 5635.15 | 39.7 | 414443.67 | 522003 | 1043.0549 ng/ml |
| Morphine | 1.233 | 366406 | ∞ | 24.2 | ∞ | 4166 | 918.7558 ng/ml |
| Norbuprenorphine | 4.983 | 17656 | 460.46 | 83.0 | ∞ | 9122 | 98.8266 ng/ml |
| Nordiazepam | 5.874 | 393154 | 10667.17 | 56.6 | 1639.02 | 12679 | 1016.3203 ng/ml |
| Norfentanyl | 4.068 | 1353753 | 152828.50 | 37.6 | 18735.18 | 477287 | 112.4292 ng/ml |
| Norhydrocodone | 3.046 | 531774 | ∞ | 42.2 | ∞ | 41310 | 1109.0011 ng/ml |
| Noroxycodone | 2.889 | 1495644 | 2022.65 | 50.4 | 1362.95 | 52004 | 959.2218 ng/ml |
| O-desmethyl-tramadol | 3.354 | 17357972 | 1090864.95 | 5.9 | 45304.77 | 932461 | 1017.1812 ng/ml |
| Oxazepam | 5.738 | 223354 | 1090.85 | 69.0 | 994.77 | 14307 | 961.0535 ng/ml |
| Oxycodone | 2.814 | 5337447 | 4654.73 | 32.4 | 5891.37 | 256345 | 992.1032 ng/ml |
| Oxymorphone | 1.390 | 1322468 | 2558.90 | 48.5 | 175.36 | 53752 | 954.5734 ng/ml |
| Phentermine | 3.758 | 2269074 | 12092.60 | 2.6 | 2130.74 | 445364 | 688.8172 ng/ml* |
| Promethazine | 5.534 | 12174189 | 329146.08 | 29.1 | 338461.90 | 519379 | 1020.2658 ng/ml |
| Quetiapine | 5.510 | 7707076 | 34876.45 | 60.6 | 28977.48 | 165016 | 732.2581 ng/ml* |
| Sertraline | 5.770 | 1008106 | 2891.20 | 88.6 | ∞ | 42926 | 996.6669 ng/ml |
| Temazepam | 5.798 | 1719418 | 187902.13 | 28.8 | 2383.20 | 83262 | 1067.7070 ng/ml |
| Tramadol | 4.226 | 14574921 | 400662.97 | 3.3 | 1665.97 | 943262 | 899.1680 ng/ml |
| Trazodone | 5.058 | 8046626 | 1311421.83 | 79.3 | 694940.54 | 366572 | 988.6413 ng/ml |
| Venlafaxine | 5.027 | 14097798 | 394273.31 | 35.3 | 18005.14 | 734266 | 988.7949 ng/ml |
| Zolpidem | 4.837 | 15734325 | 2580.74 | 29.7 | 88590.49 | 862389 | 916.9754 ng/ml |

*Outside curve range.



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

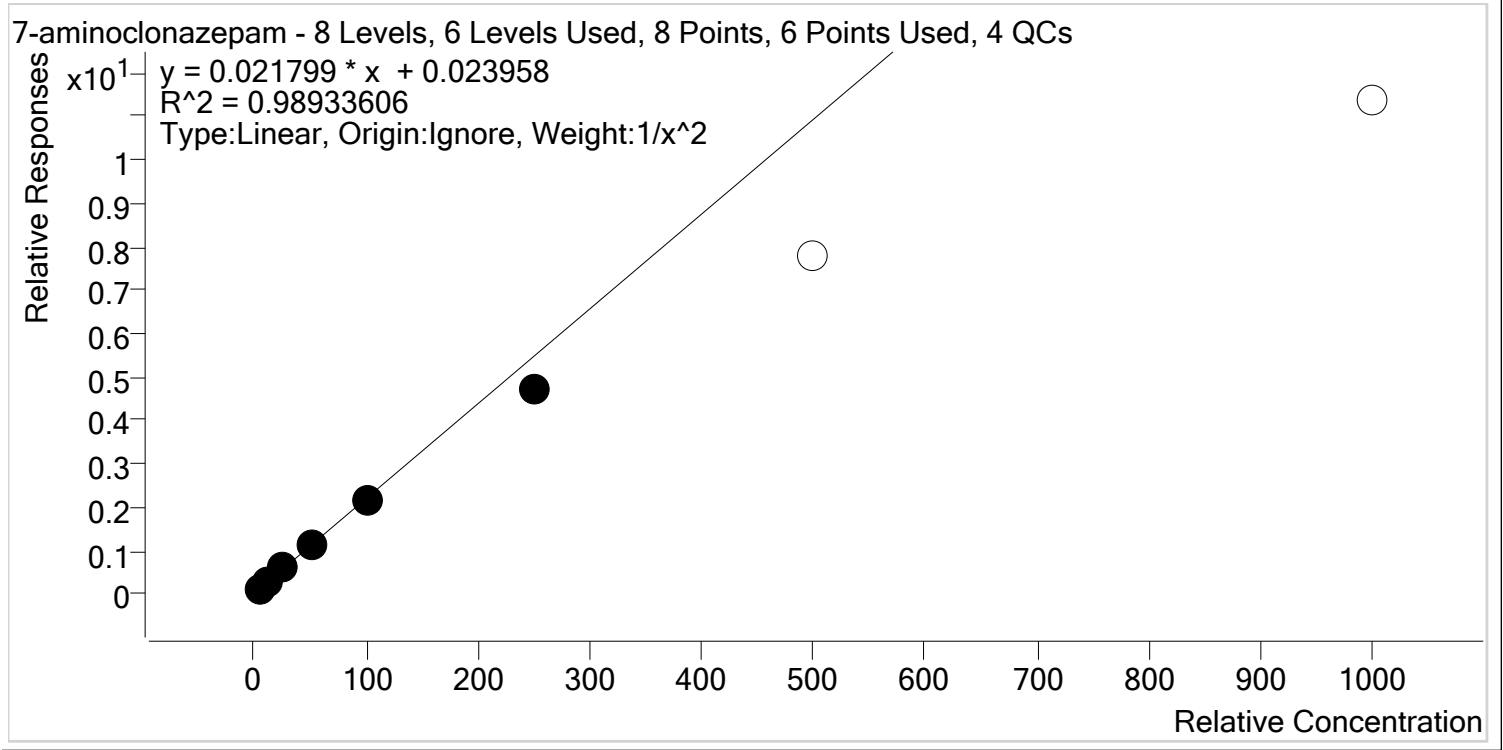


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 0.5 | 0.5 | 102.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 98.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 94.6 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 5.0 | 99.9 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.6 | 96.3 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.6 | 102.5 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 50.8 | 101.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 105.0 | 105.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

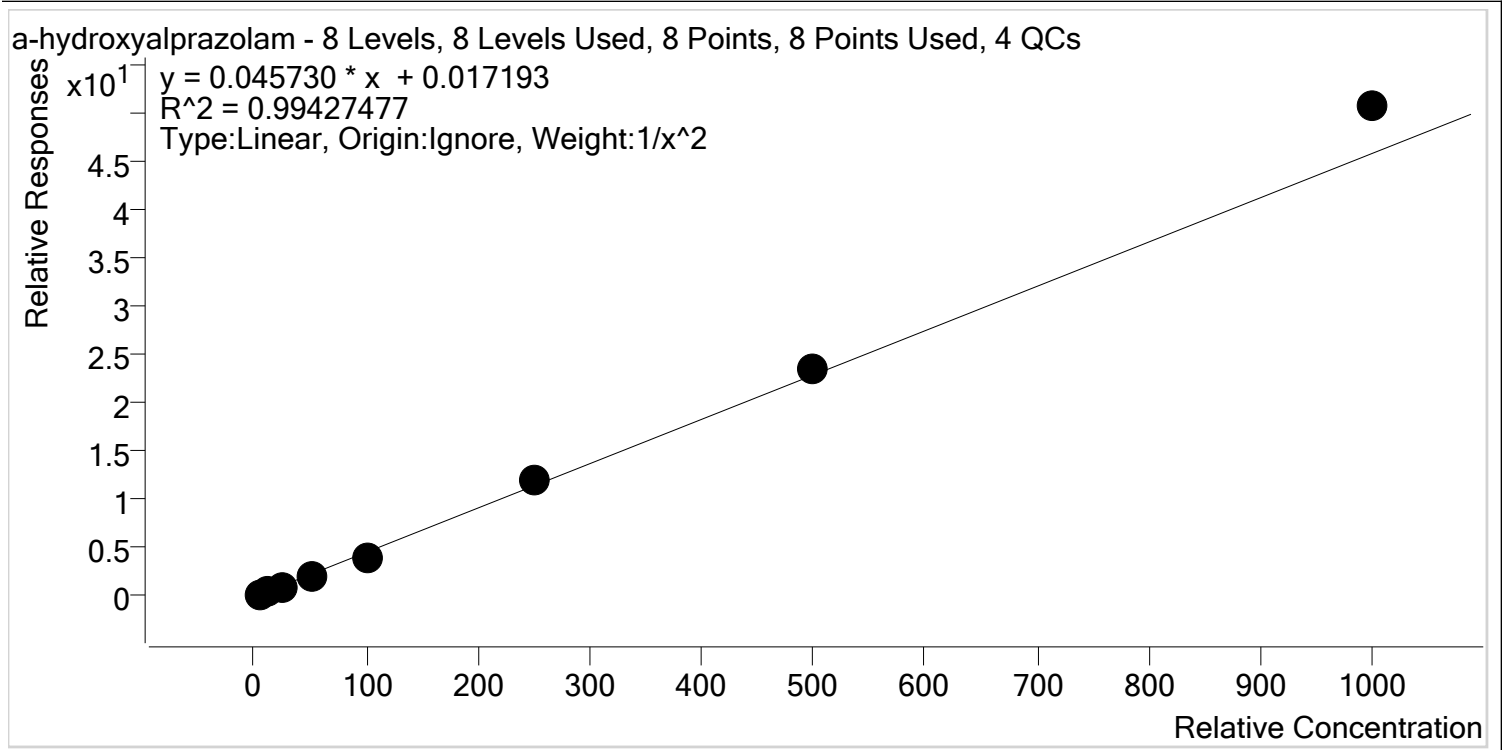


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 95.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.4 | 103.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.5 | 110.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.8 | 105.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.6 | 98.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 215.3 | 86.1 |
| p1 Cal 7-500ng | 7 | x | 500.0 | 355.6 | 71.1 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 519.8 | 52.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

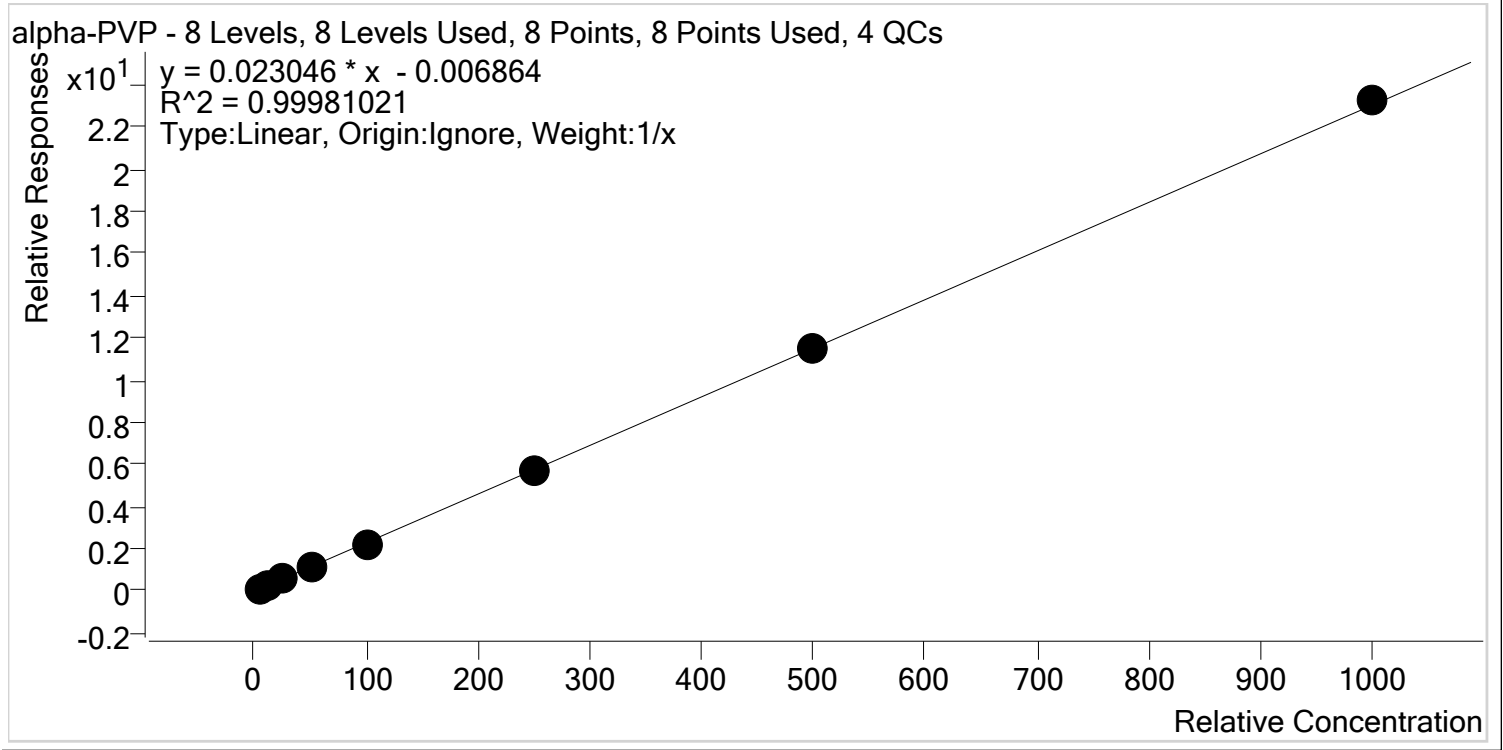


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.2 | 104.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.5 | 94.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.2 | 97.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.2 | 96.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 90.1 | 90.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 261.2 | 104.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 513.2 | 102.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1106.5 | 110.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

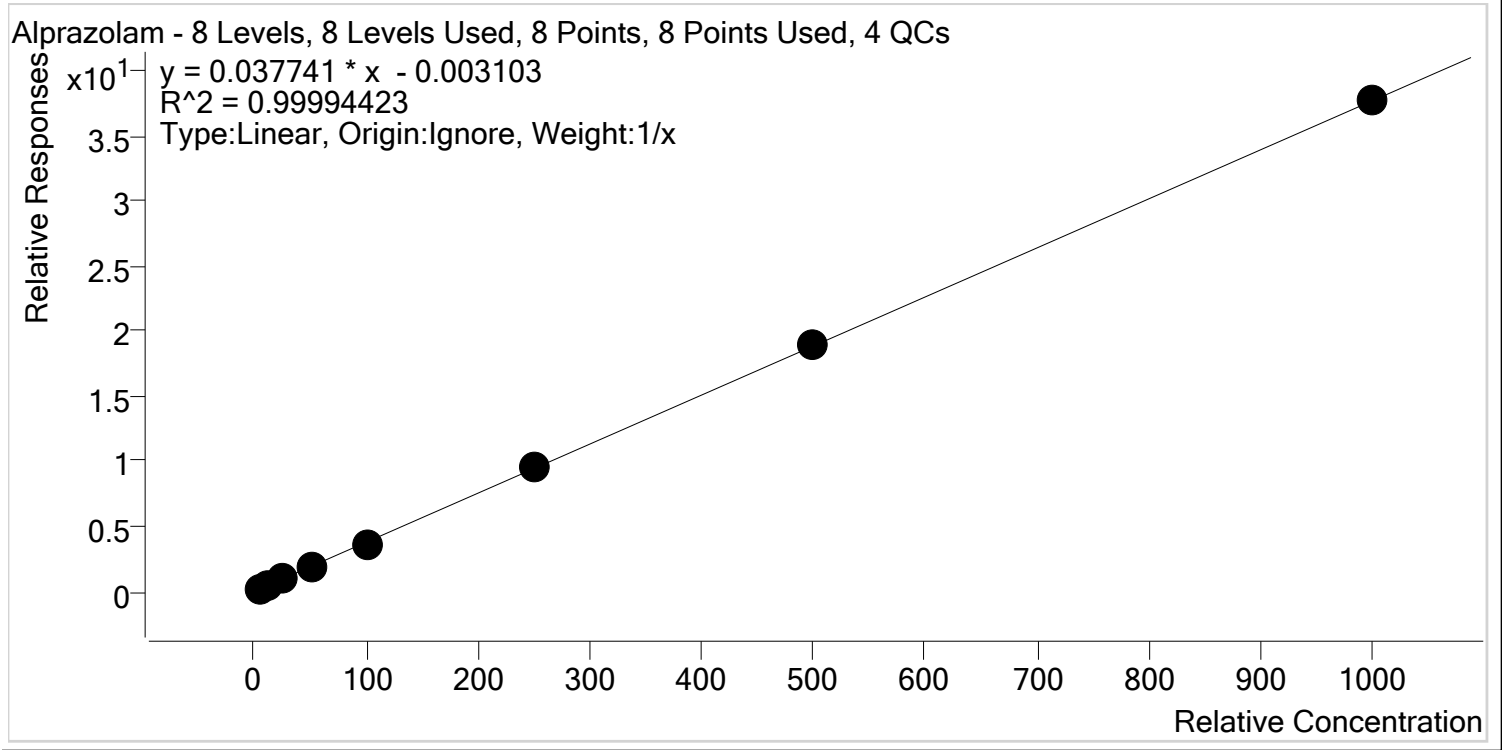


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.3 | 106.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.5 | 98.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.2 | 98.3 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 96.2 | 96.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 246.6 | 98.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 498.5 | 99.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1009.6 | 101.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

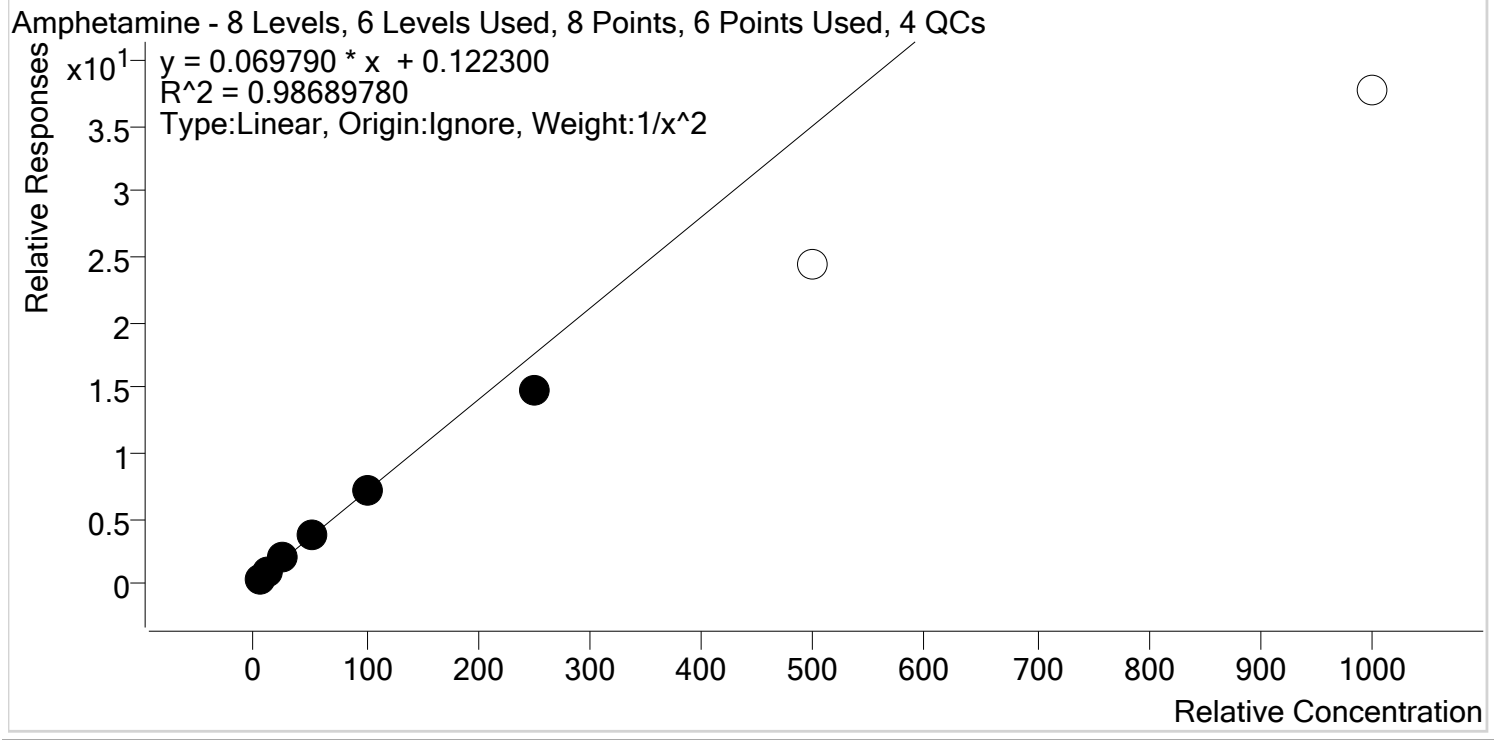


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.2 | 103.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 98.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.8 | 99.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.5 | 101.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.2 | 97.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.5 | 100.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 500.4 | 100.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1000.5 | 100.1 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

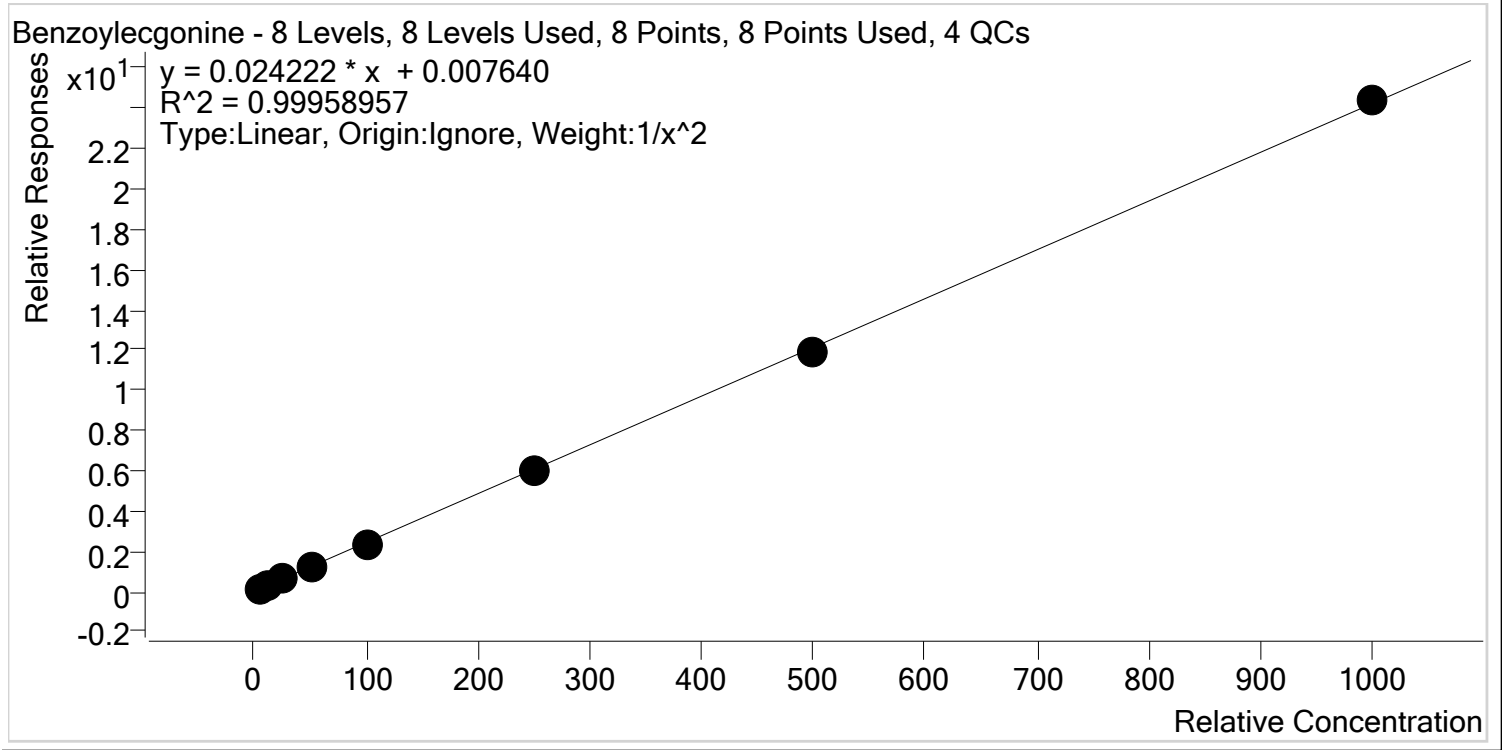


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 96.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.3 | 109.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.2 | 108.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 99.5 | 99.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 209.5 | 83.8 |
| p1 Cal 7-500ng | 7 | ✗ | 500.0 | 349.3 | 69.9 |
| p1 Cal 8-1000ng | 8 | ✗ | 1000.0 | 537.9 | 53.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

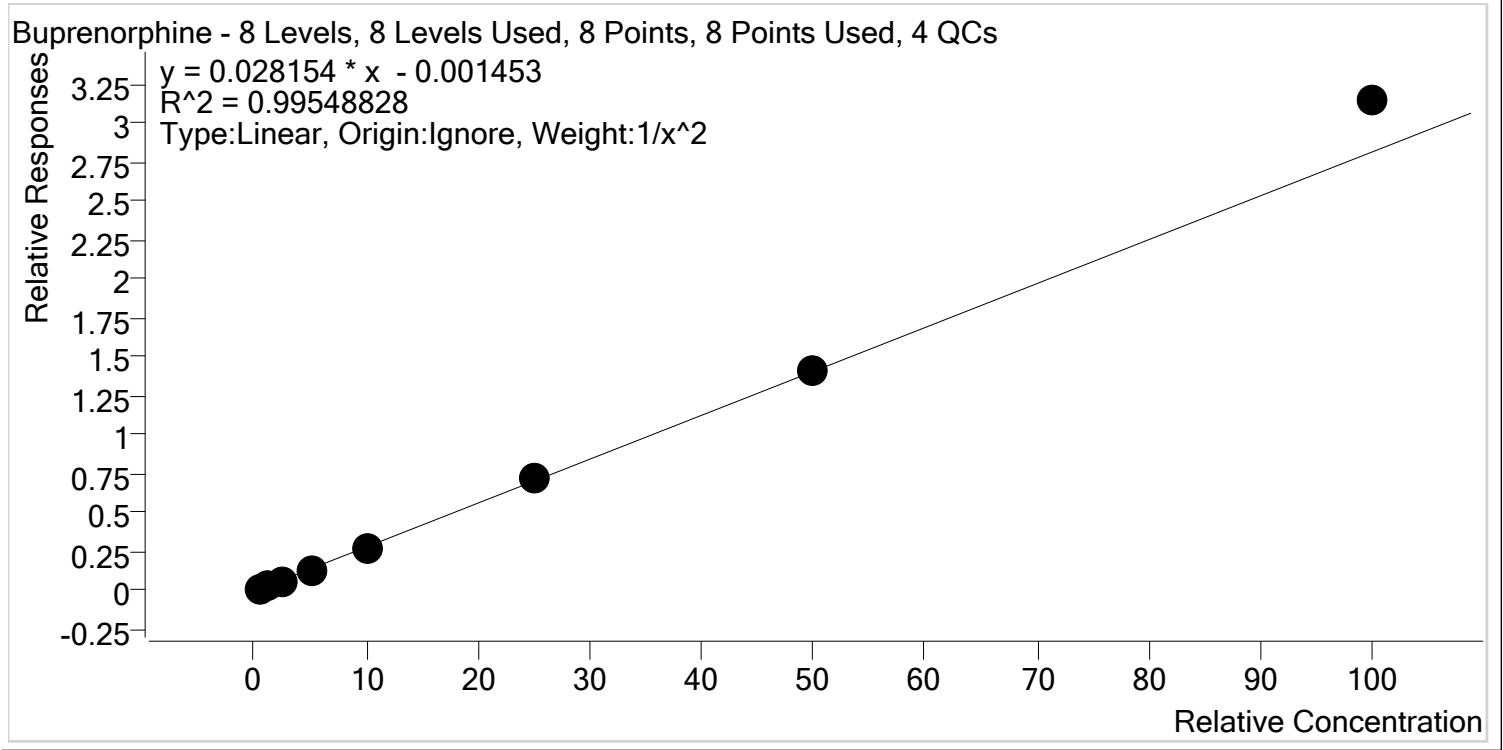


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.8 | 97.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.6 | 102.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.0 | 101.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.6 | 97.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.7 | 100.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 494.0 | 98.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1006.2 | 100.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

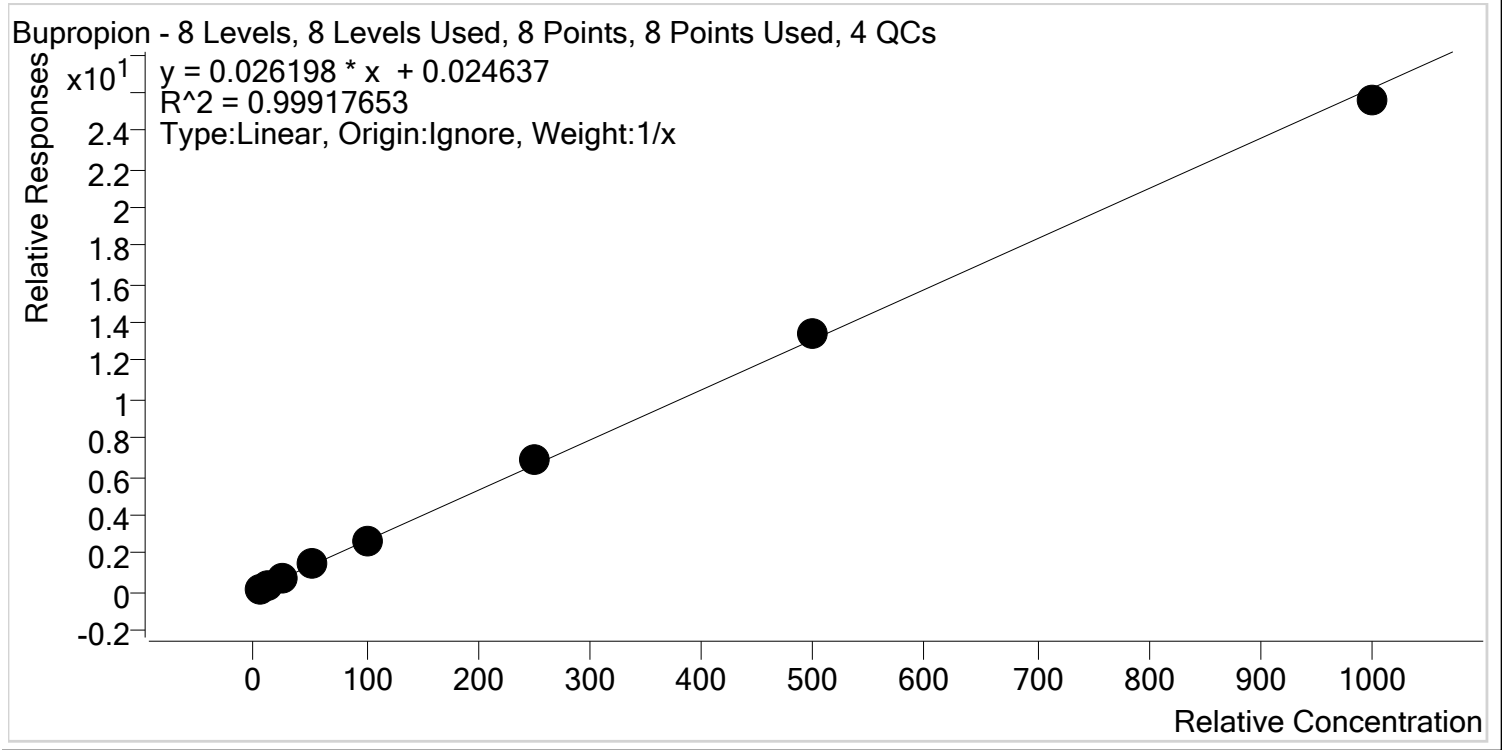


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 0.5 | 0.5 | 100.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 101.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 97.0 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.7 | 93.3 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.4 | 93.7 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.6 | 102.3 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 49.8 | 99.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 111.7 | 111.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

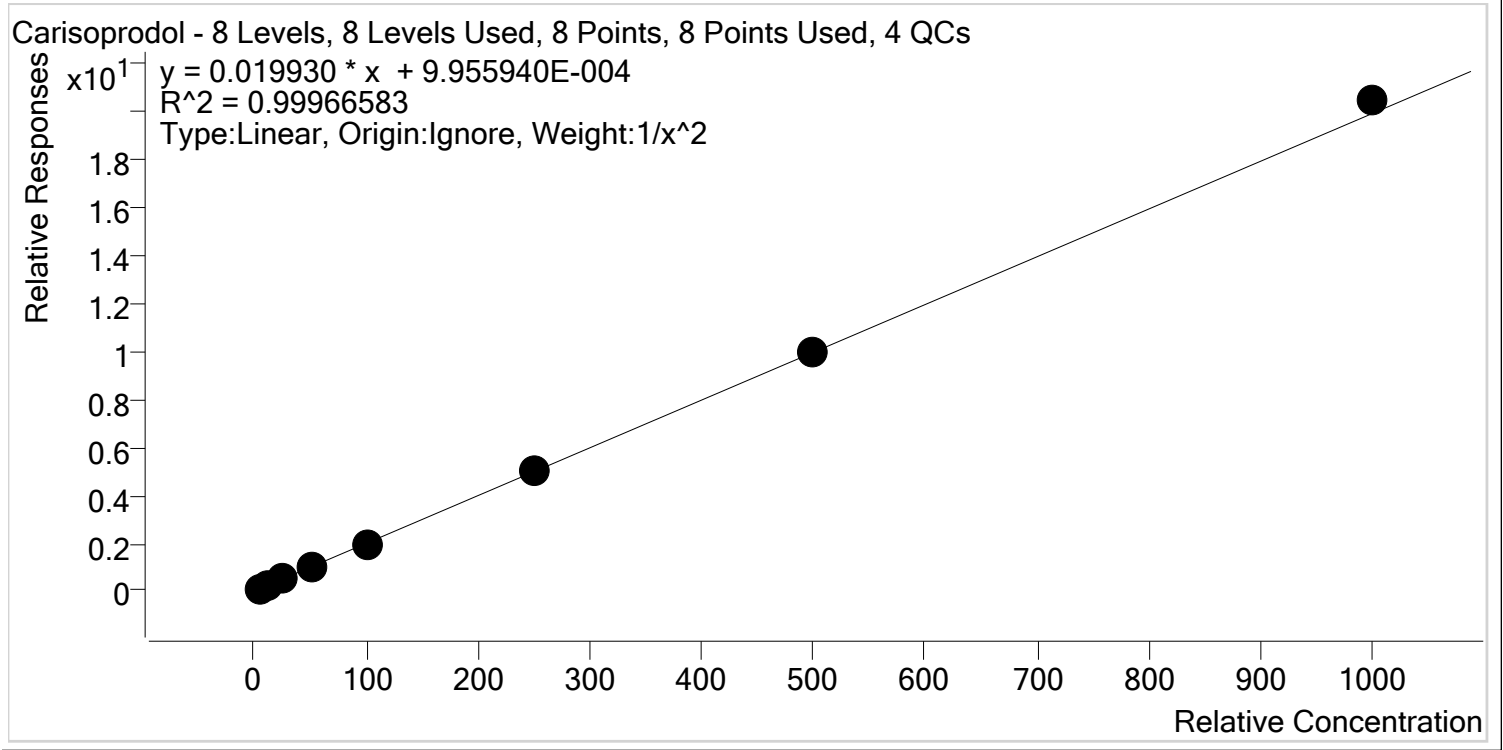


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.5 | 90.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.7 | 97.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.5 | 101.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.4 | 104.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 102.2 | 102.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 259.9 | 104.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 510.5 | 102.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 975.2 | 97.5 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

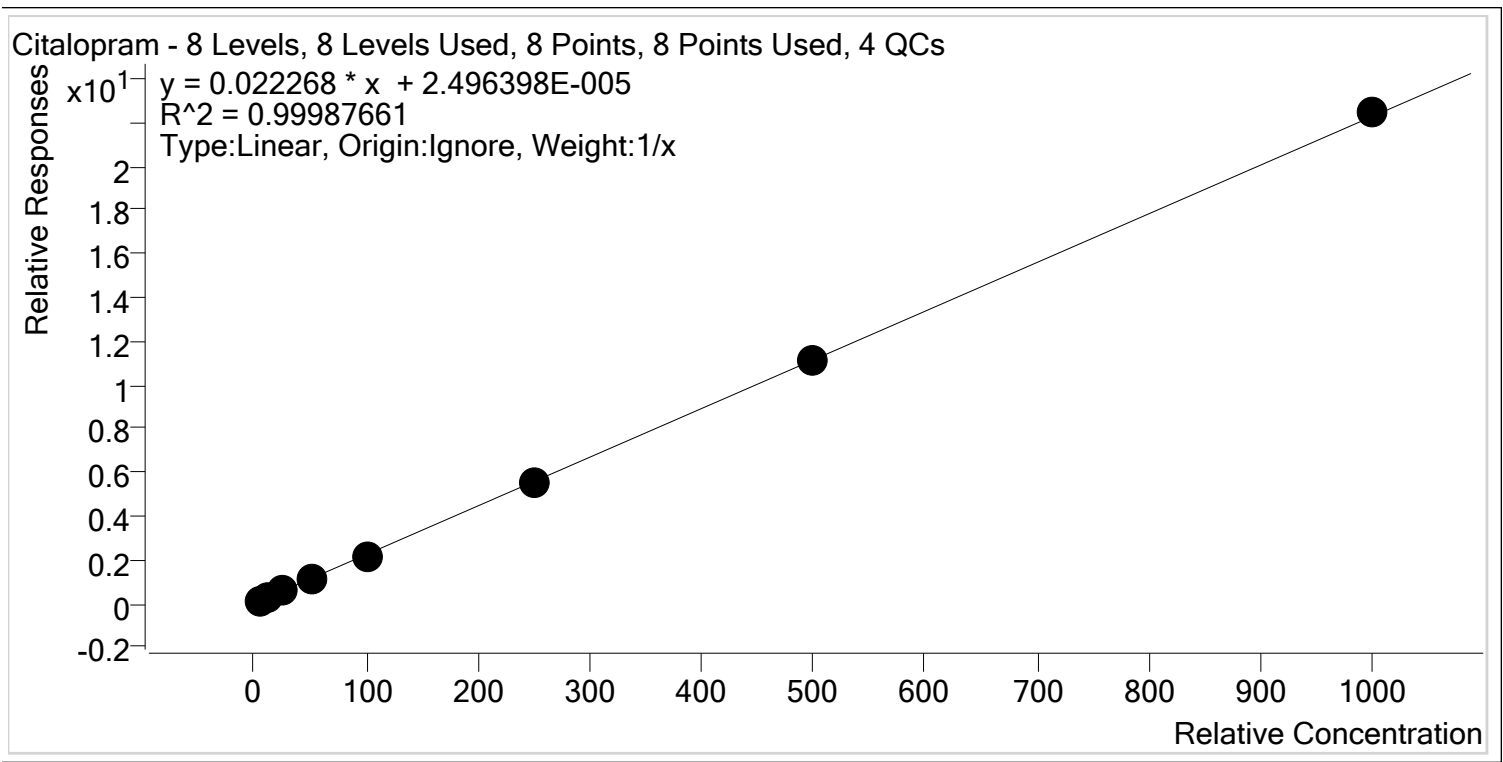


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.5 | 98.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.6 | 99.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.0 | 98.0 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.0 | 100.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 504.2 | 100.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1027.2 | 102.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

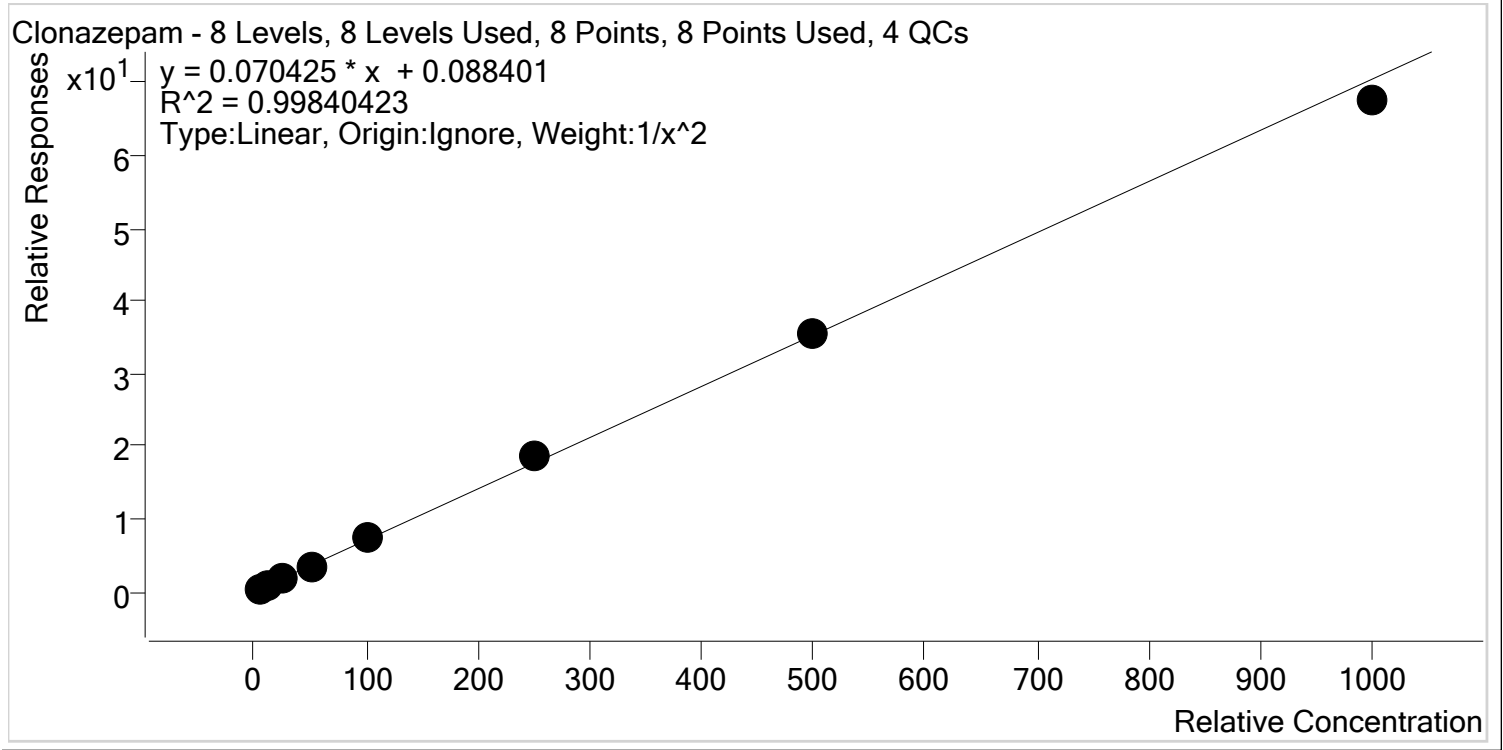


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.2 | 103.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.6 | 98.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.5 | 100.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.1 | 97.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 246.8 | 98.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 497.7 | 99.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1008.1 | 100.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

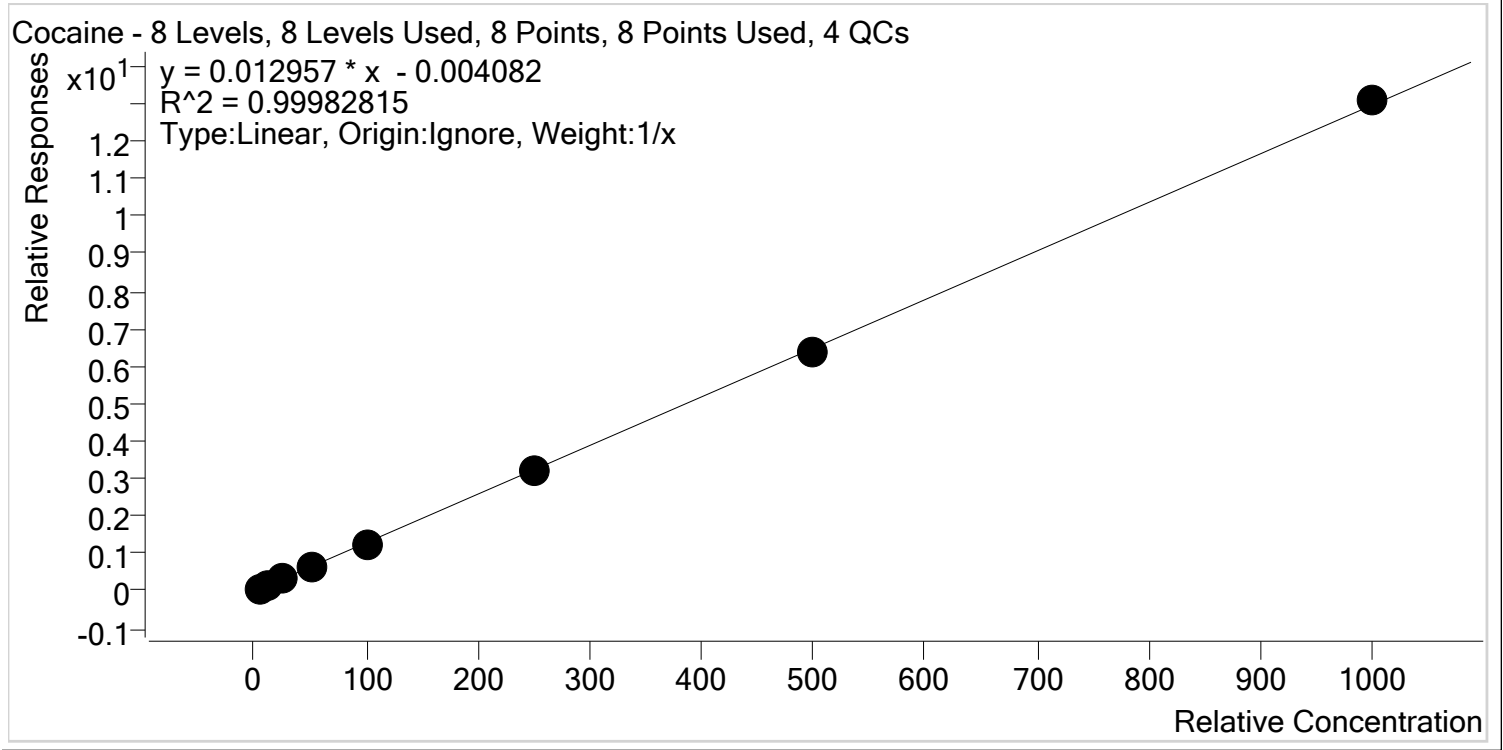


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 23.7 | 94.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.7 | 99.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.4 | 103.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 263.2 | 105.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 501.3 | 100.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 958.1 | 95.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

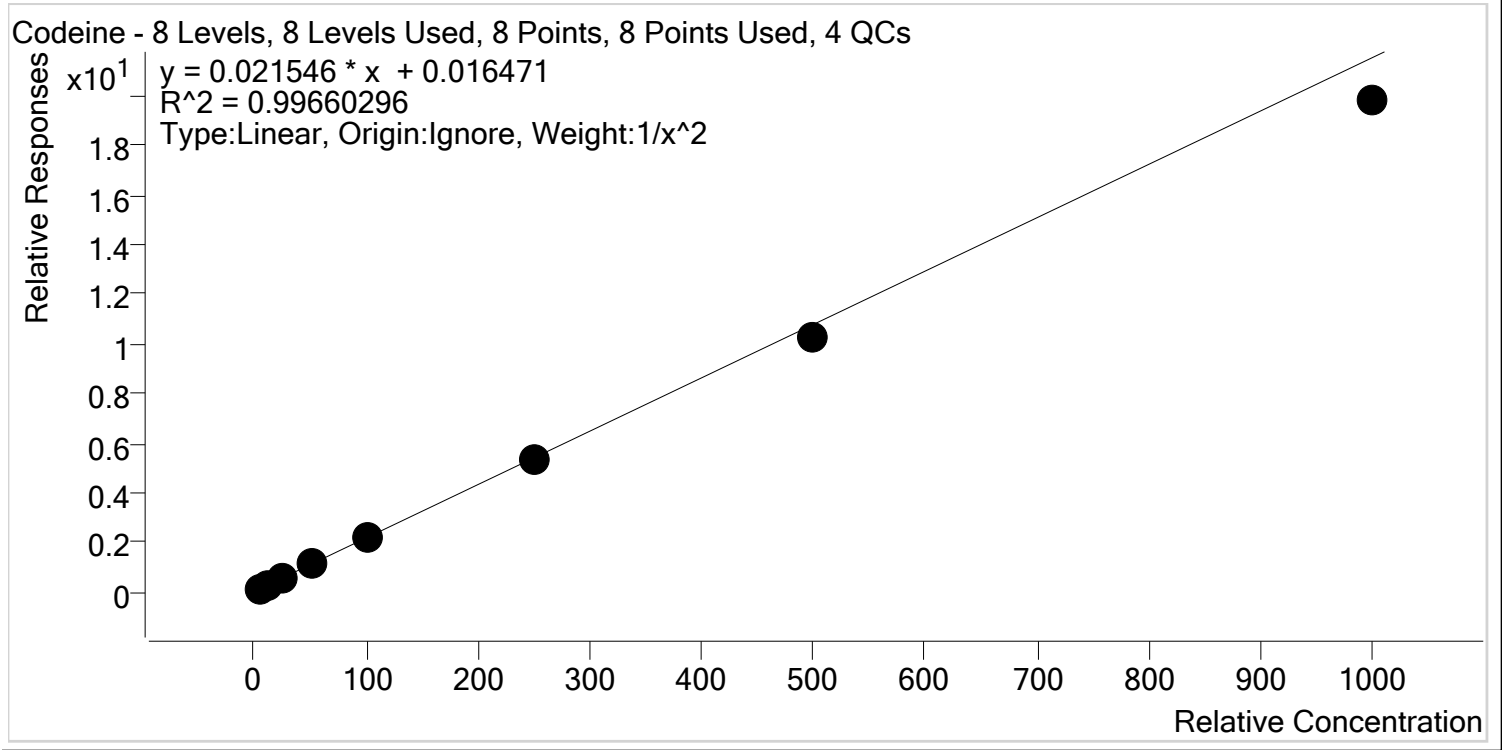


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.4 | 107.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 23.9 | 95.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.4 | 98.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.2 | 97.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.8 | 99.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 494.7 | 98.9 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1009.5 | 100.9 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

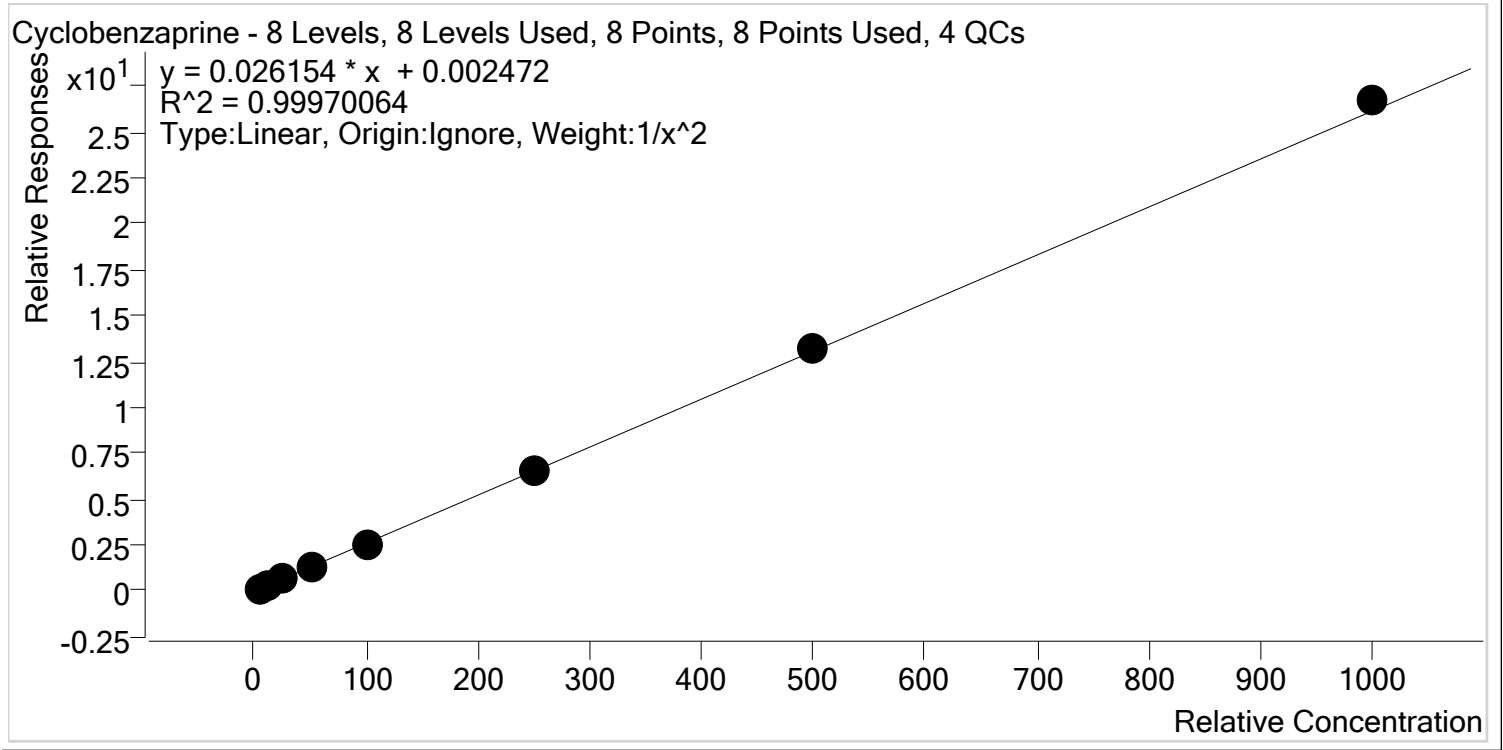


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 96.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.6 | 106.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.9 | 105.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.5 | 101.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.1 | 99.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 476.4 | 95.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 919.6 | 92.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

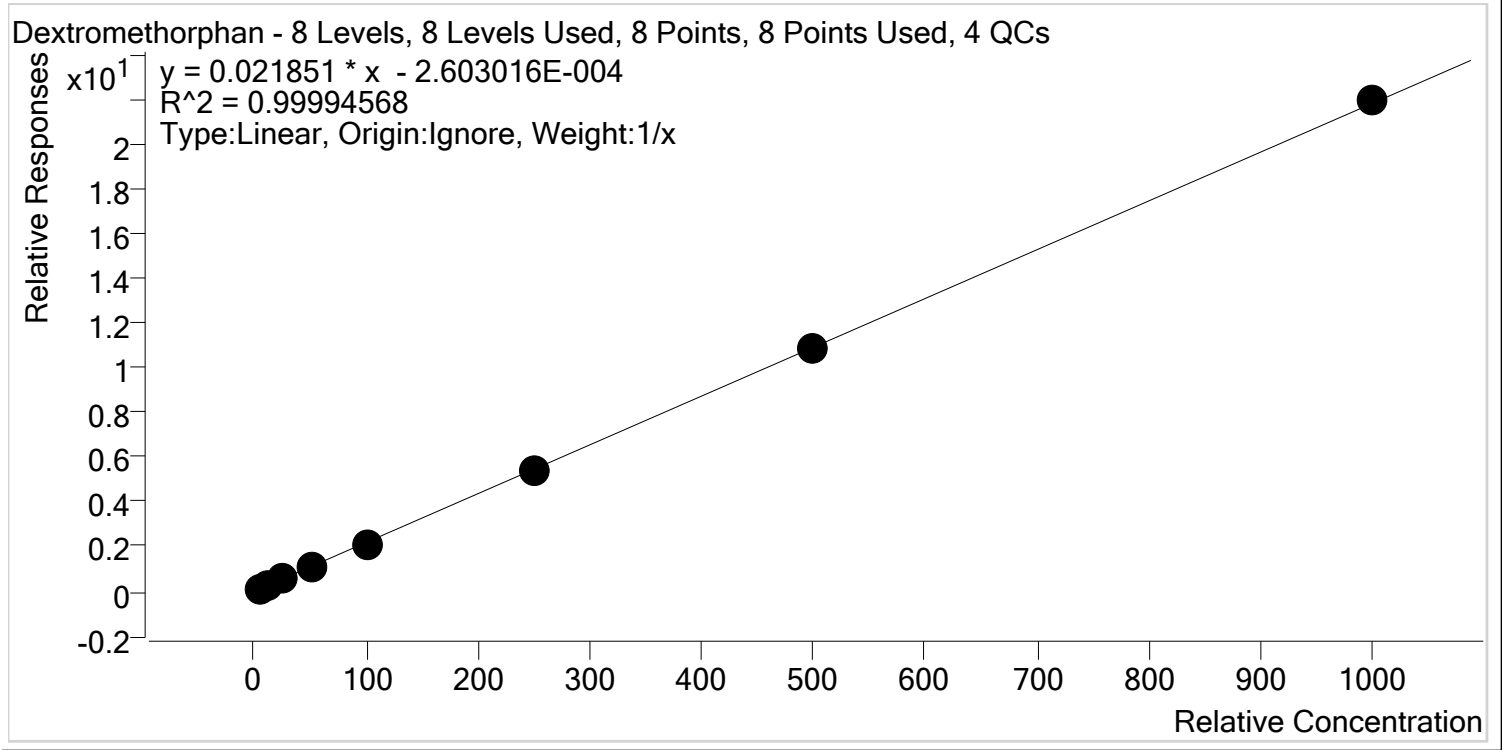


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.6 | 98.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.4 | 100.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.4 | 97.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.2 | 99.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 506.0 | 101.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1021.9 | 102.2 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

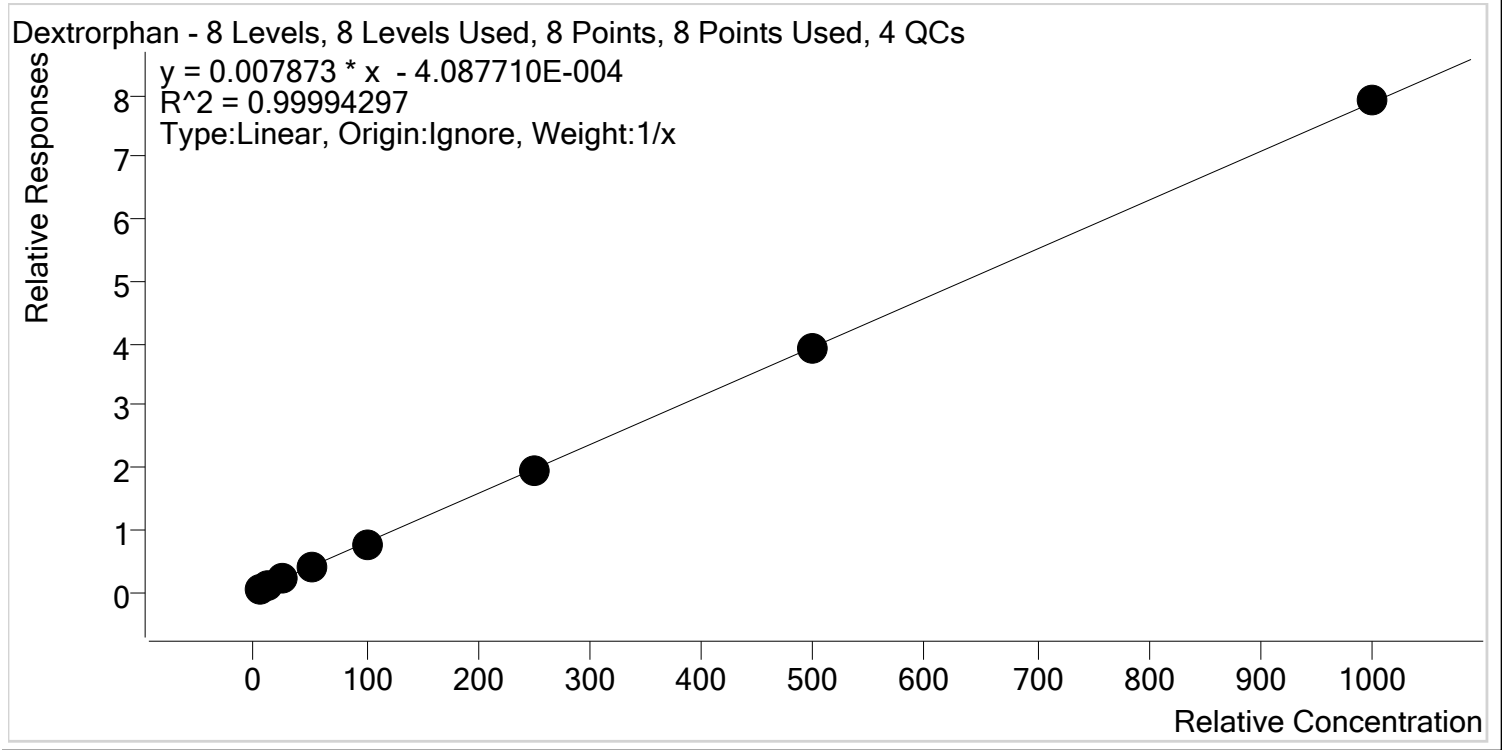


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 102.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 99.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.9 | 99.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.5 | 100.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.5 | 98.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 248.1 | 99.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 497.2 | 99.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1005.8 | 100.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Dextrophan Internal Standard Dextrophan-D3



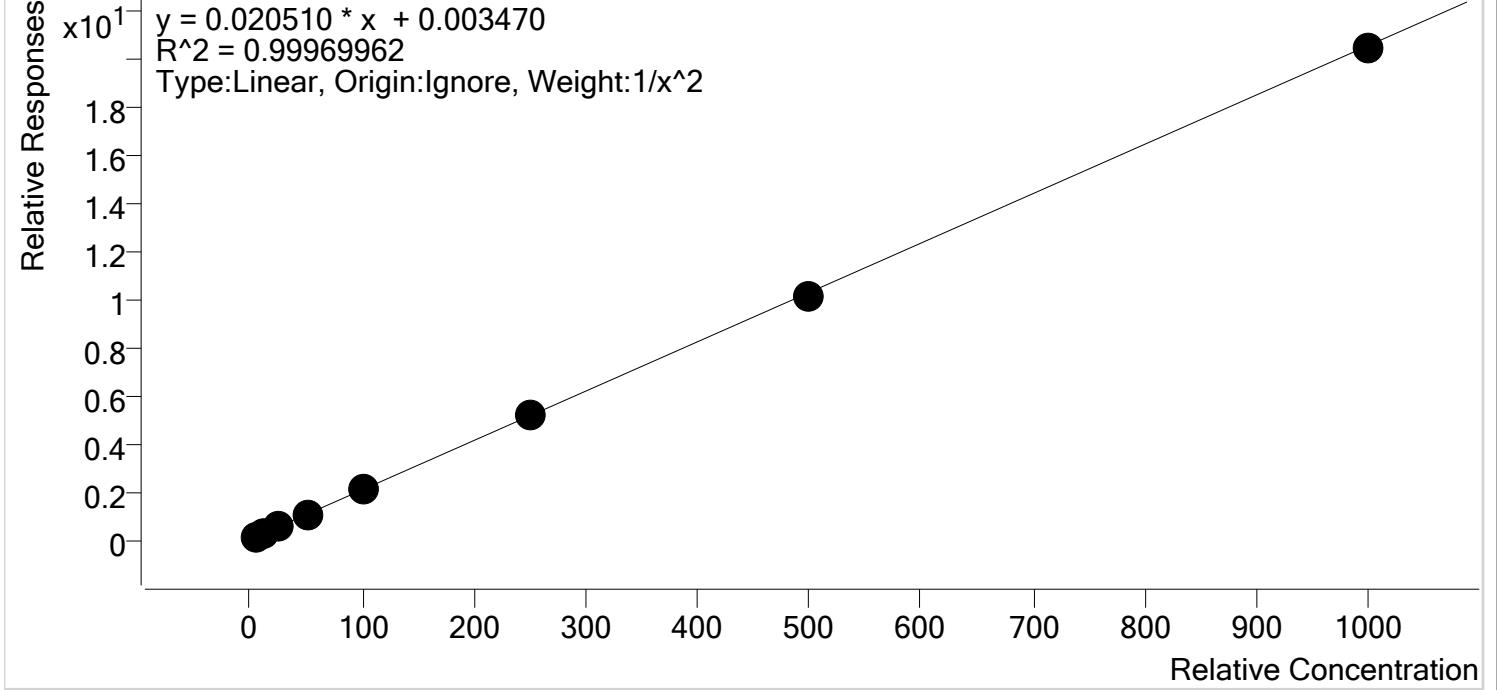
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.2 | 103.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.7 | 99.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.9 | 99.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.3 | 97.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.2 | 99.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 499.4 | 99.9 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1004.2 | 100.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

Diazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

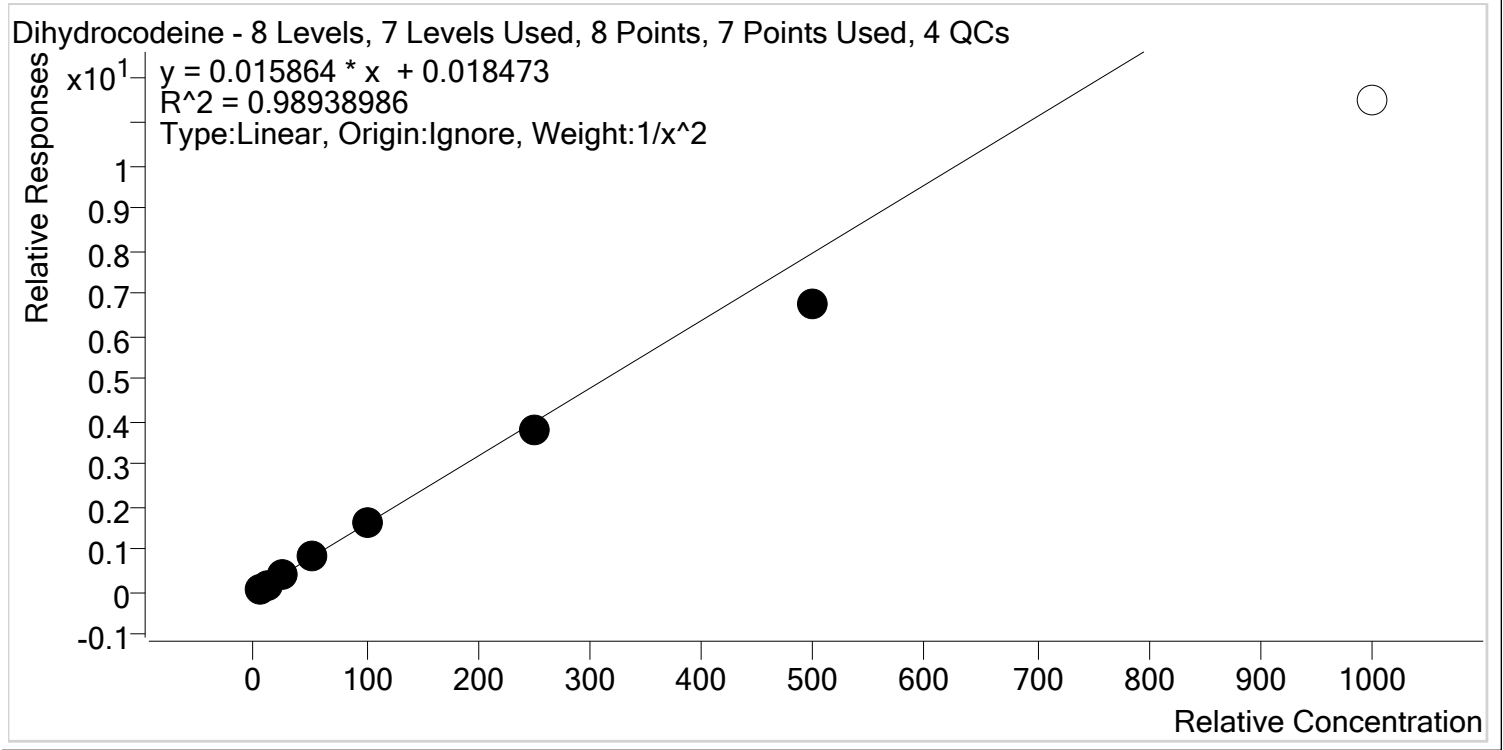


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 101.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.7 | 97.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.2 | 100.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.0 | 102.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.4 | 100.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.3 | 100.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 493.0 | 98.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 994.0 | 99.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

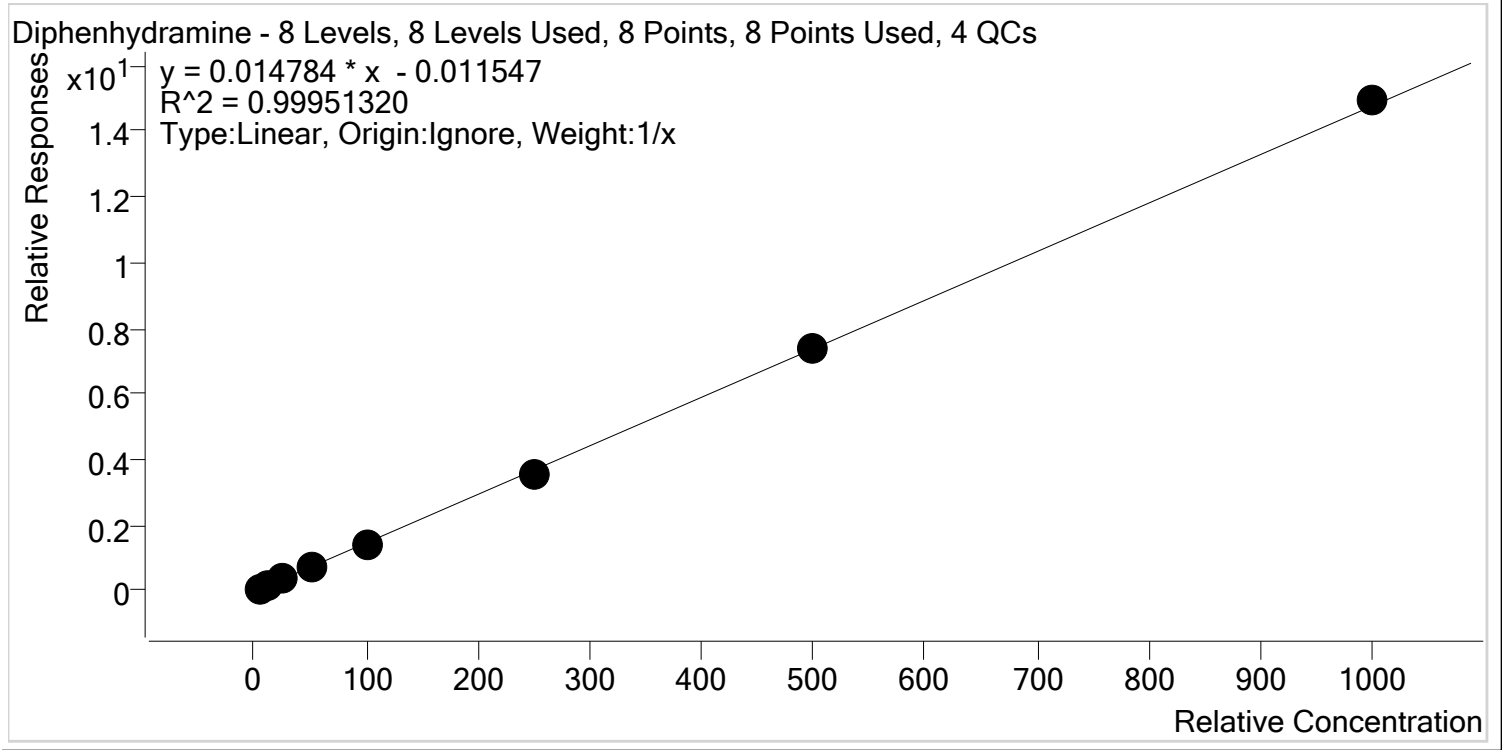


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.7 | 94.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 105.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.0 | 108.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.3 | 108.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.4 | 103.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 237.2 | 94.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 424.1 | 84.8 |
| p1 Cal 8-1000ng | 8 | ✗ | 1000.0 | 724.0 | 72.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

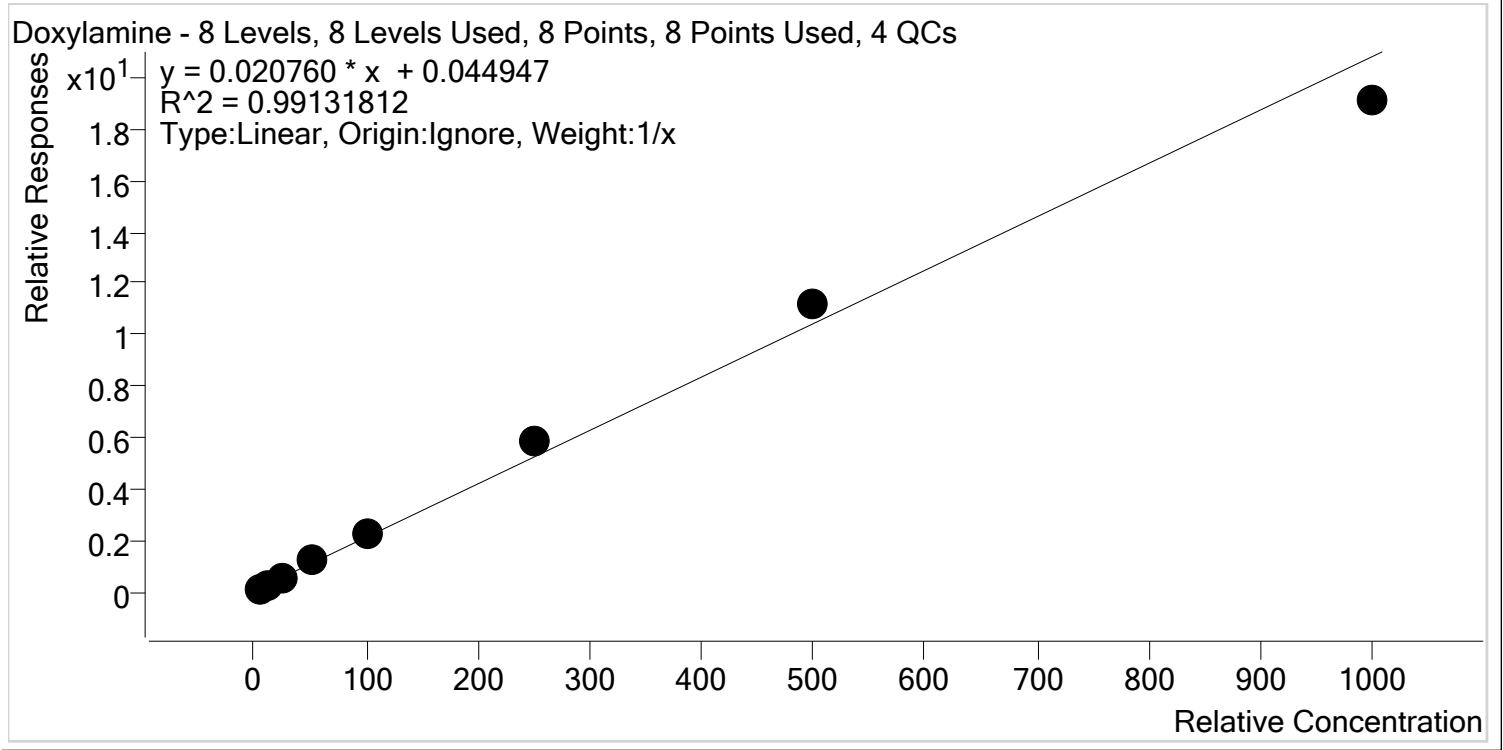


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.6 | 112.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 23.9 | 95.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 47.7 | 95.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 93.9 | 93.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 244.7 | 97.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 502.5 | 100.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1011.3 | 101.1 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

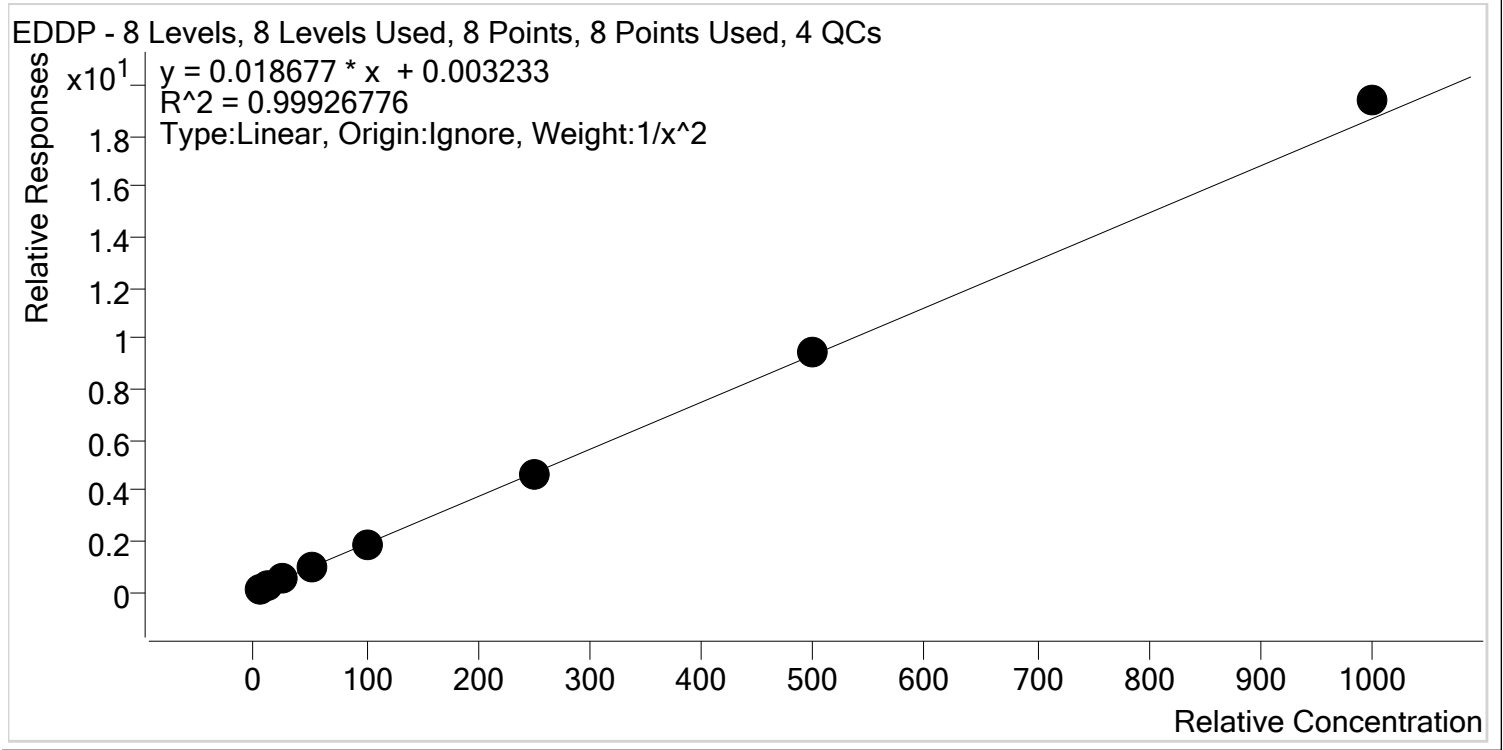


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 3.6 | 72.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.3 | 92.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.0 | 103.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.8 | 109.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 109.0 | 109.0 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 282.6 | 113.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 537.1 | 107.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 917.7 | 91.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

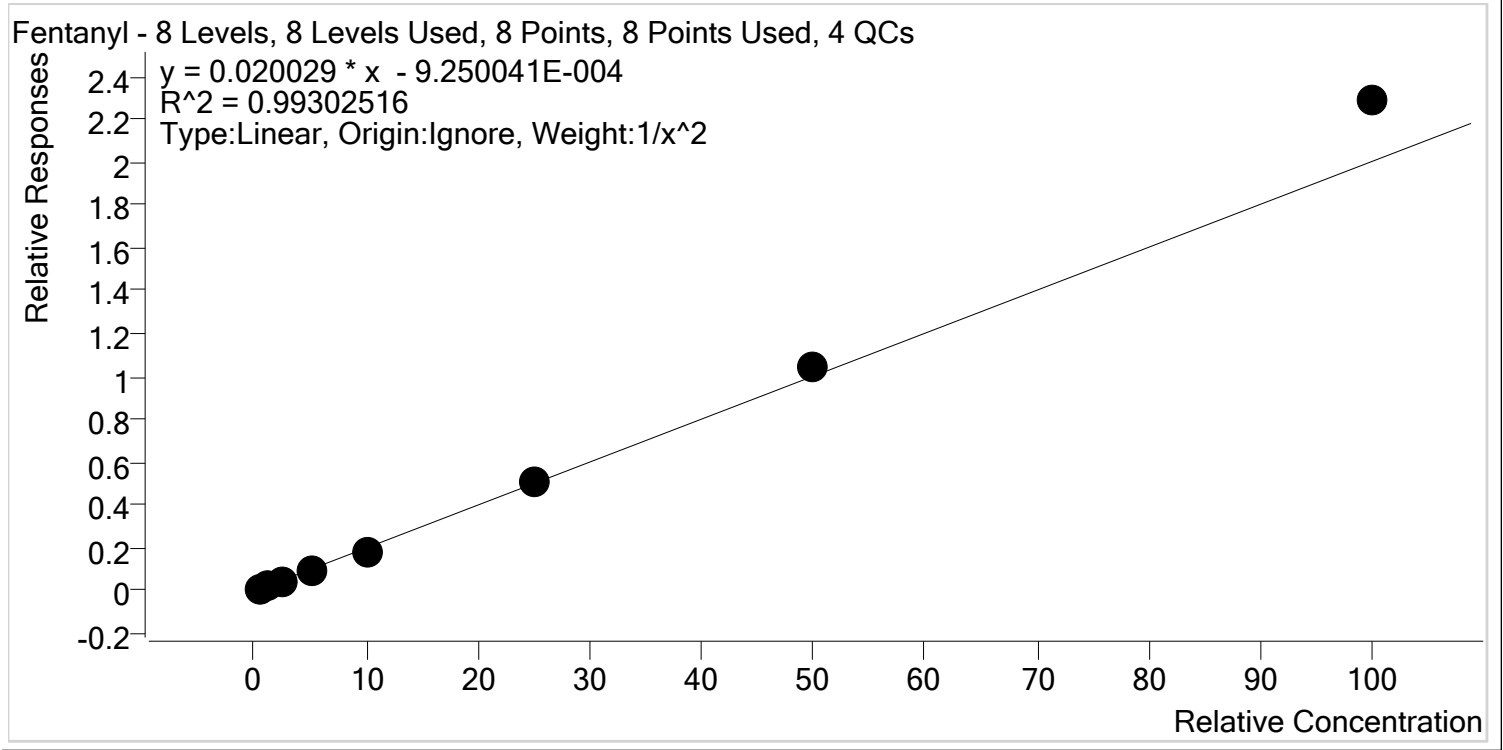


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 101.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.8 | 97.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.4 | 97.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.6 | 101.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.6 | 97.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.4 | 98.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 507.5 | 101.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1038.3 | 103.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



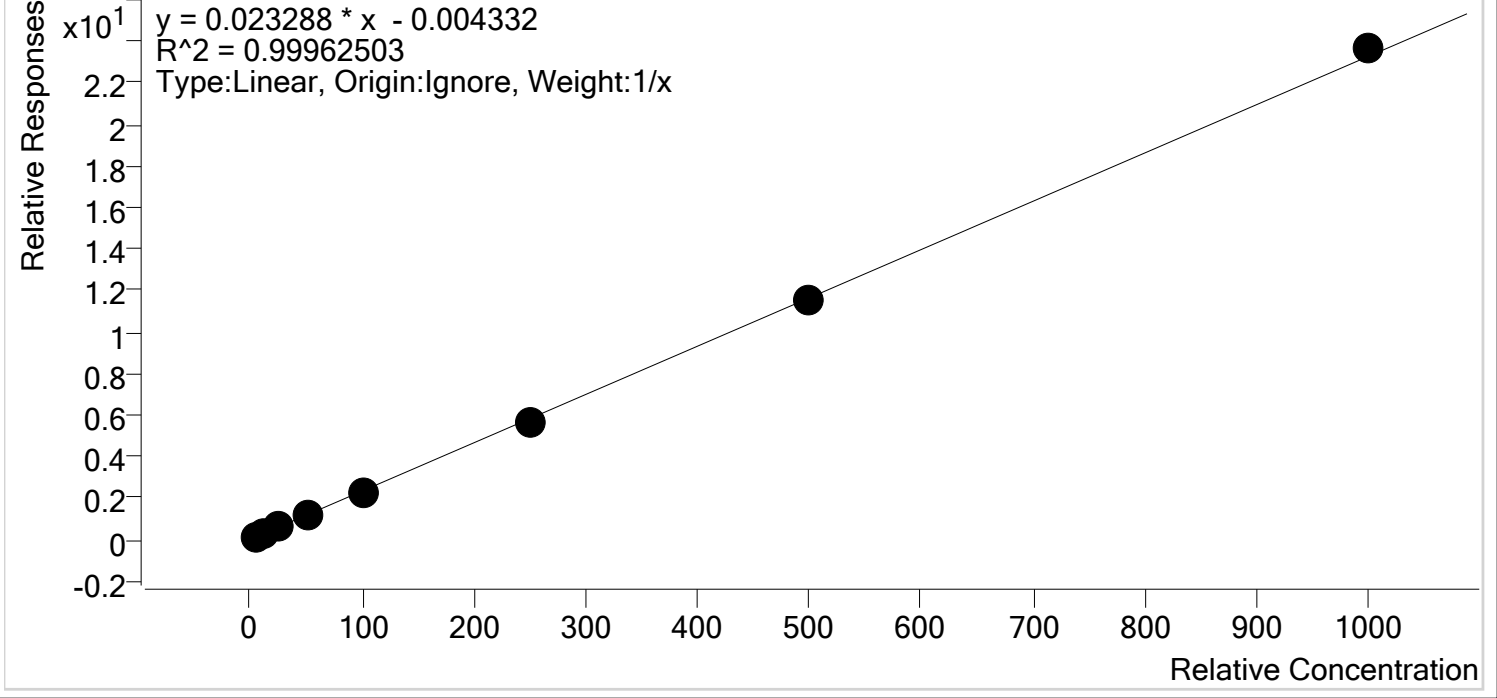
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 0.5 | 0.5 | 104.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 0.9 | 94.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 95.0 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.7 | 93.0 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.4 | 94.0 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.2 | 100.8 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 51.8 | 103.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 114.1 | 114.1 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

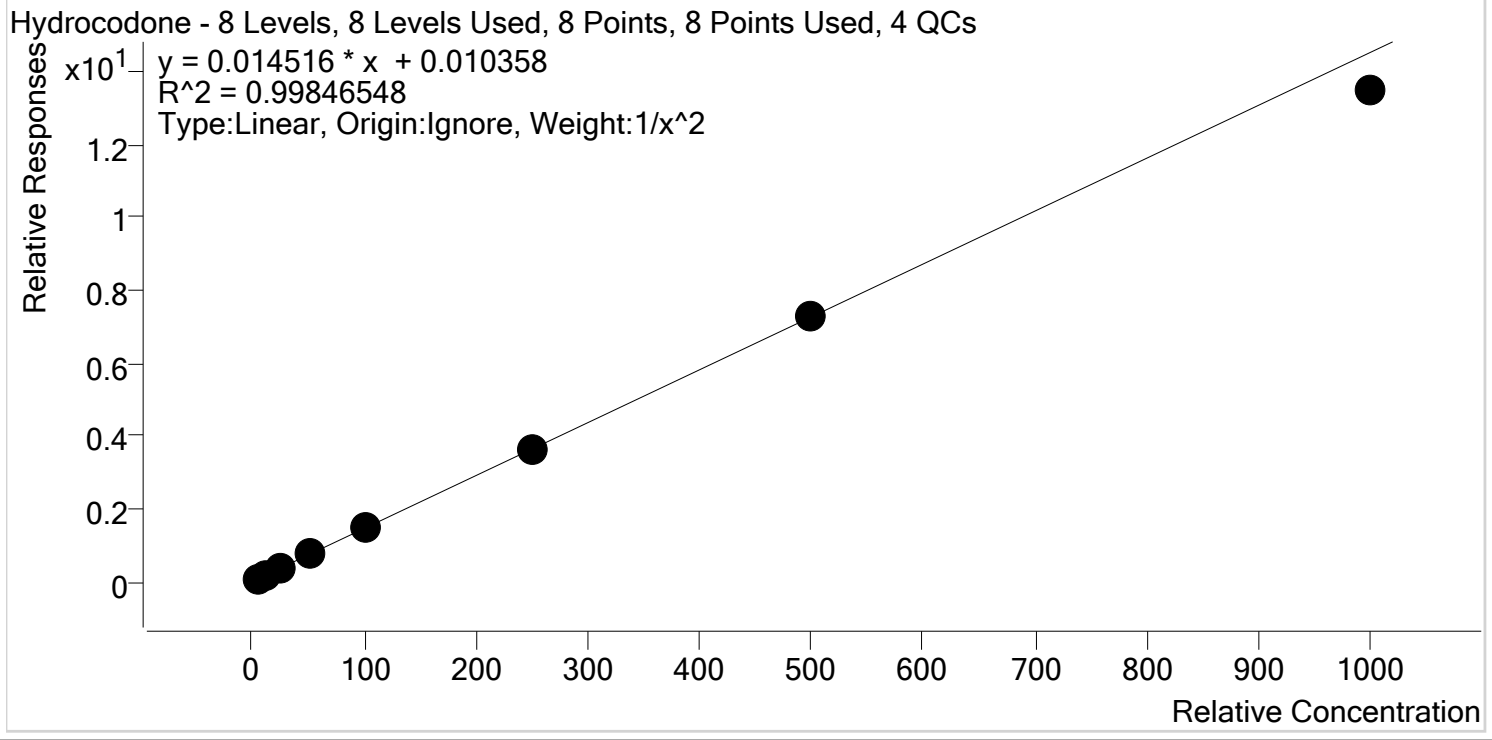


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.4 | 107.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.6 | 98.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.8 | 97.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 96.1 | 96.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 245.3 | 98.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 493.4 | 98.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1016.3 | 101.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

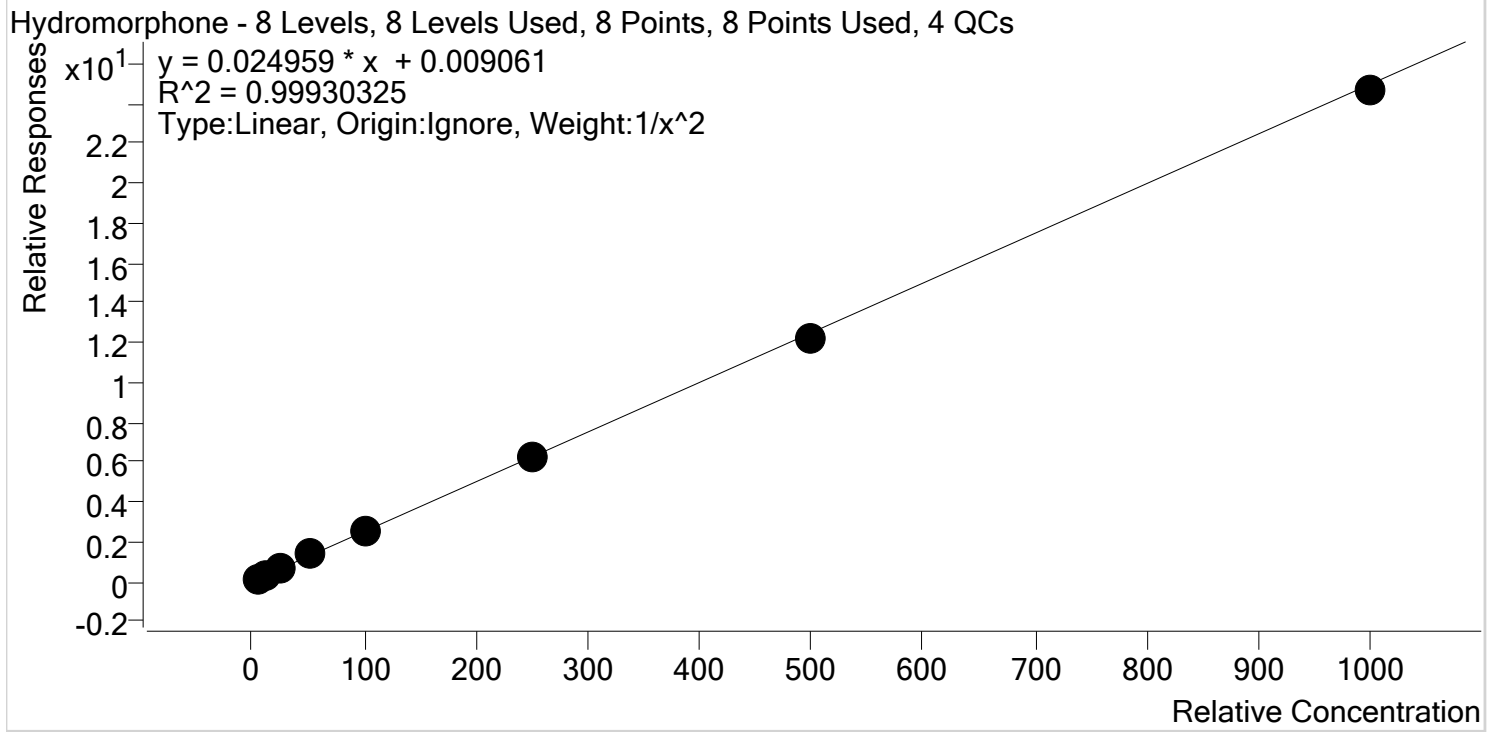


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.1 | 100.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.2 | 104.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 102.8 | 102.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.8 | 100.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 498.1 | 99.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 927.9 | 92.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

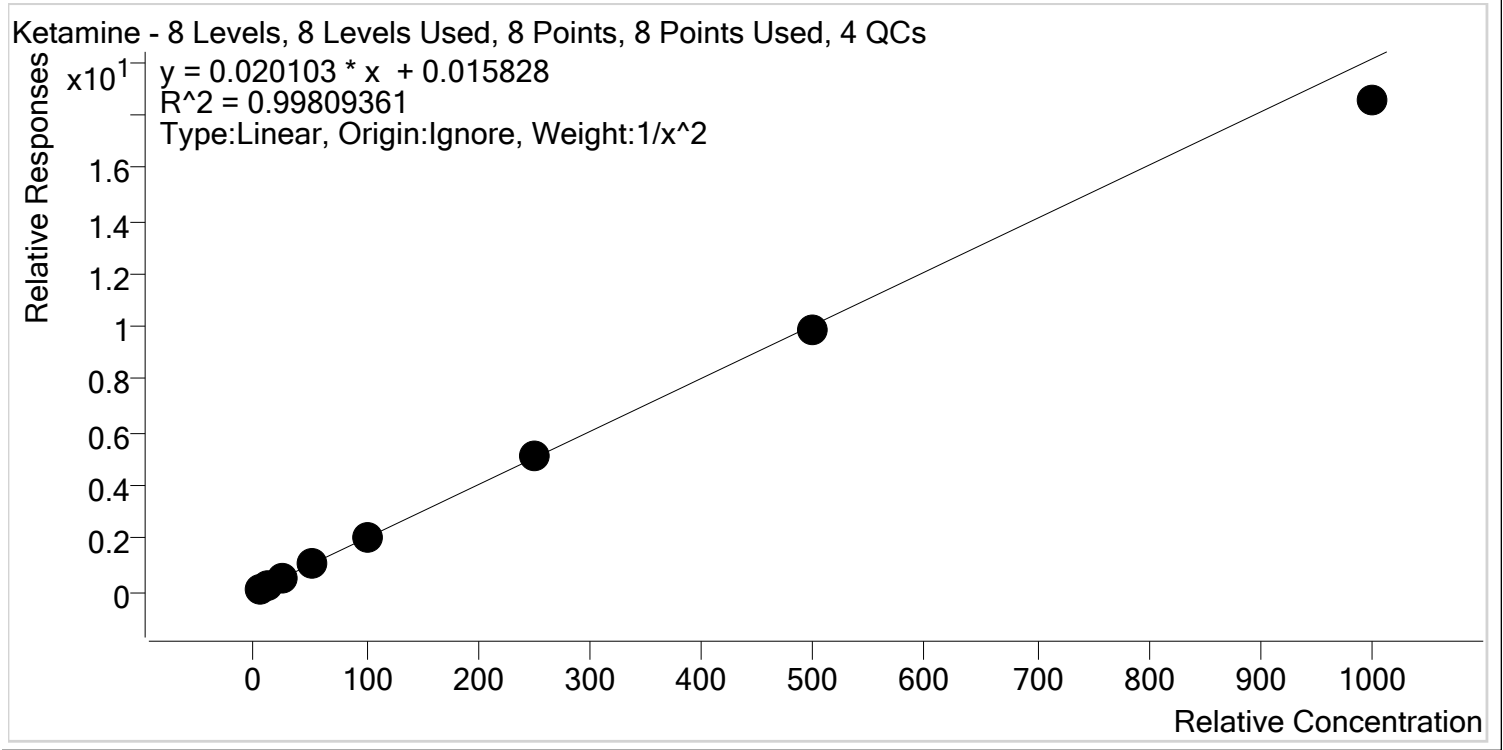


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.6 | 98.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.4 | 104.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 99.4 | 99.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.4 | 101.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 487.1 | 97.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 987.3 | 98.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

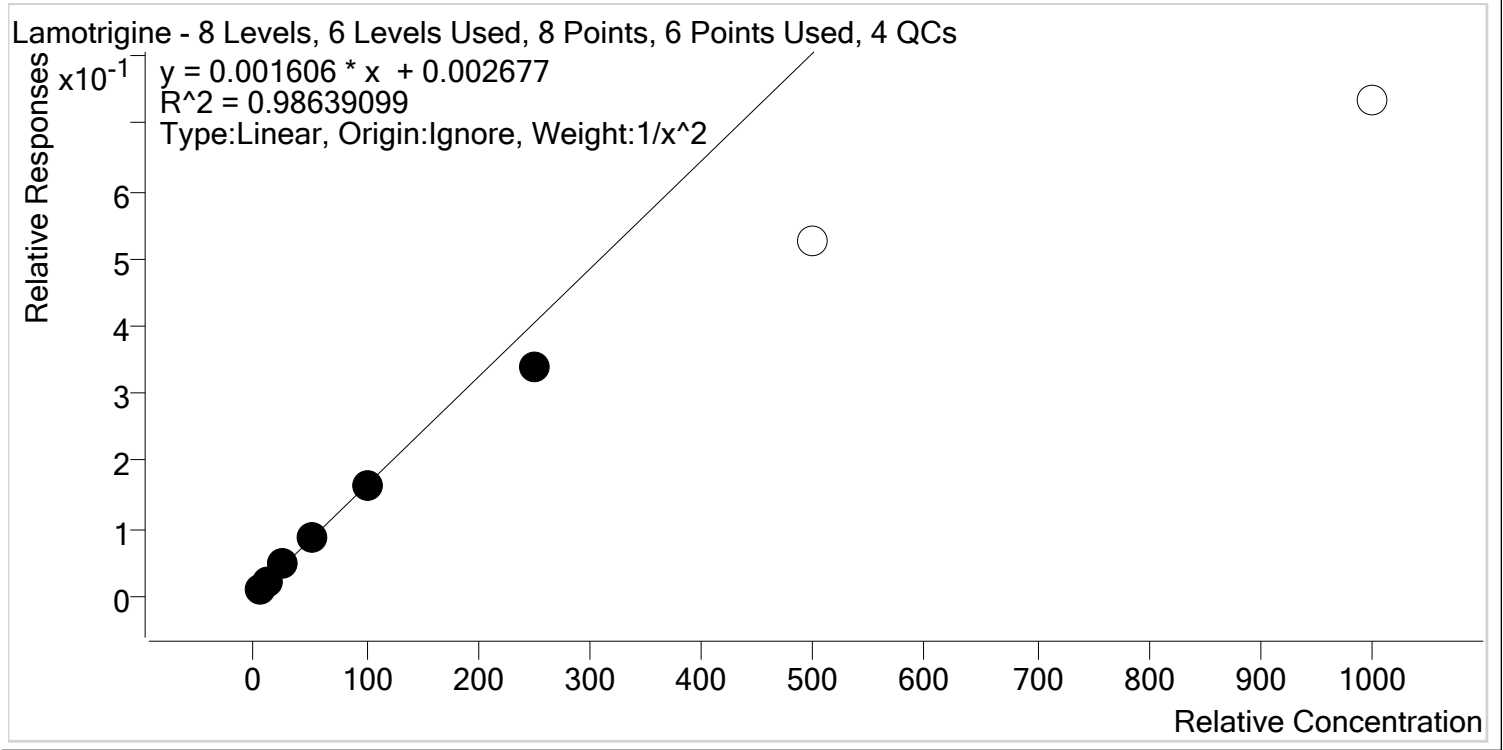


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.9 | 98.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.8 | 103.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.2 | 104.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.6 | 100.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 253.5 | 101.4 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 493.1 | 98.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 921.5 | 92.2 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 96.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.8 | 111.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.5 | 105.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.6 | 101.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 208.1 | 83.3 |
| p1 Cal 7-500ng | 7 | x | 500.0 | 324.7 | 64.9 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 455.6 | 45.6 |

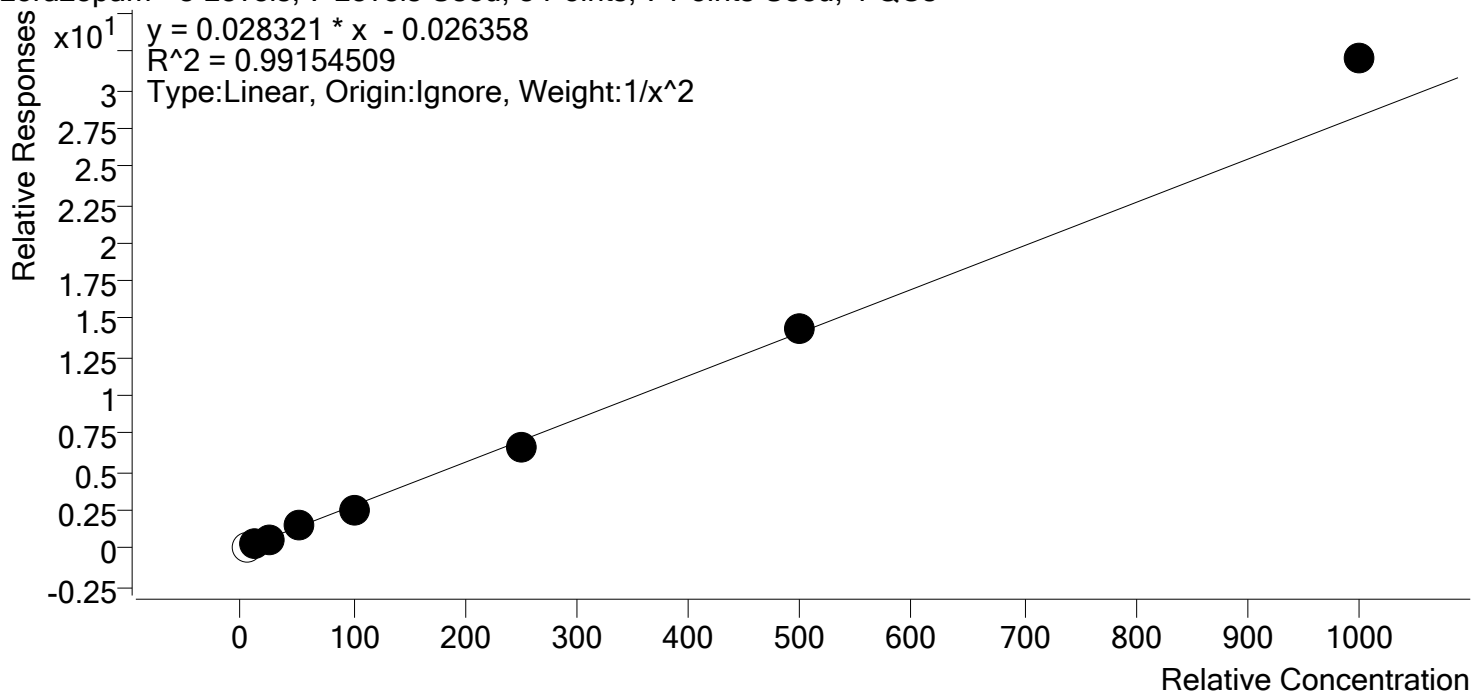
cg



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

Lorazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



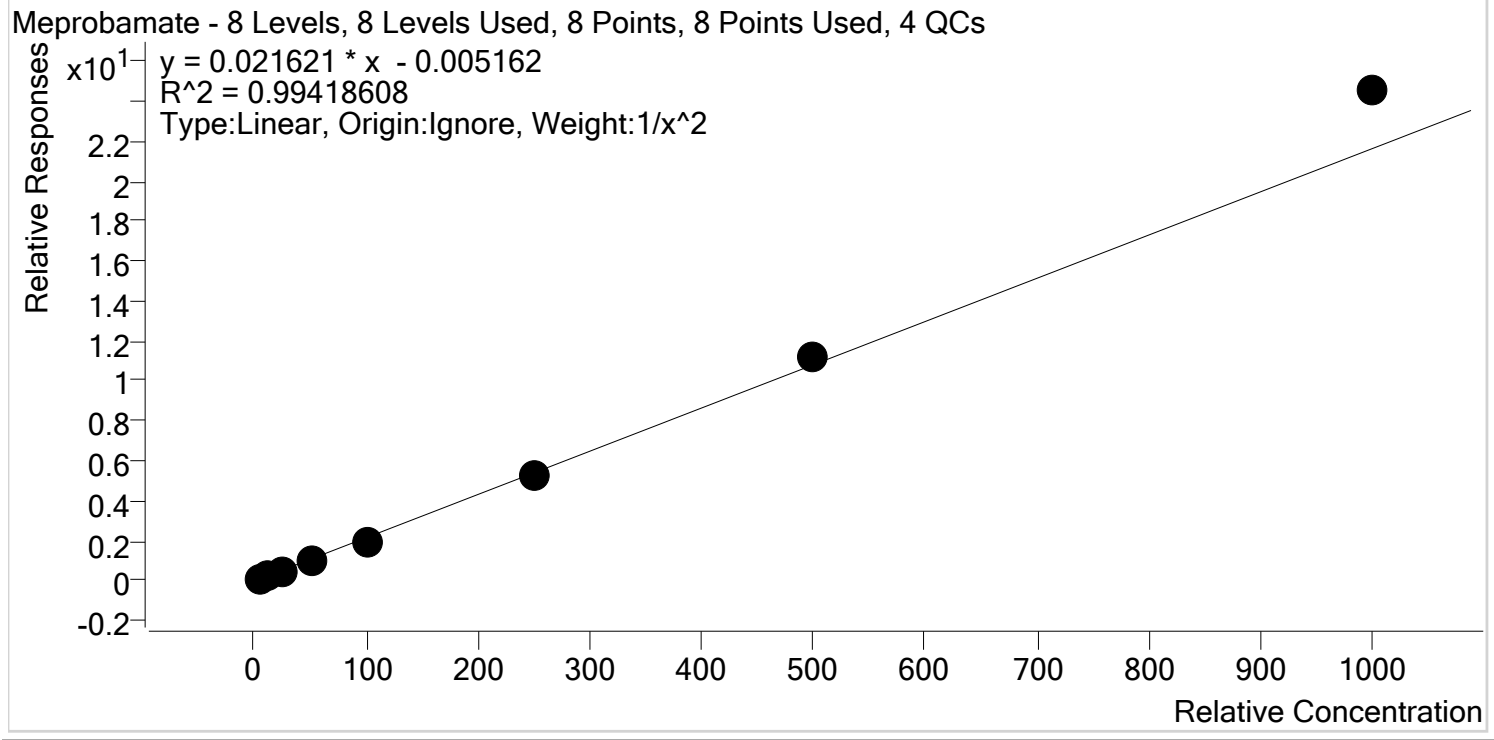
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | x | 5.0 | 5.2 | 103.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 102.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 23.7 | 94.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.3 | 104.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 89.3 | 89.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 236.4 | 94.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 506.3 | 101.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1132.6 | 113.3 |

cg



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

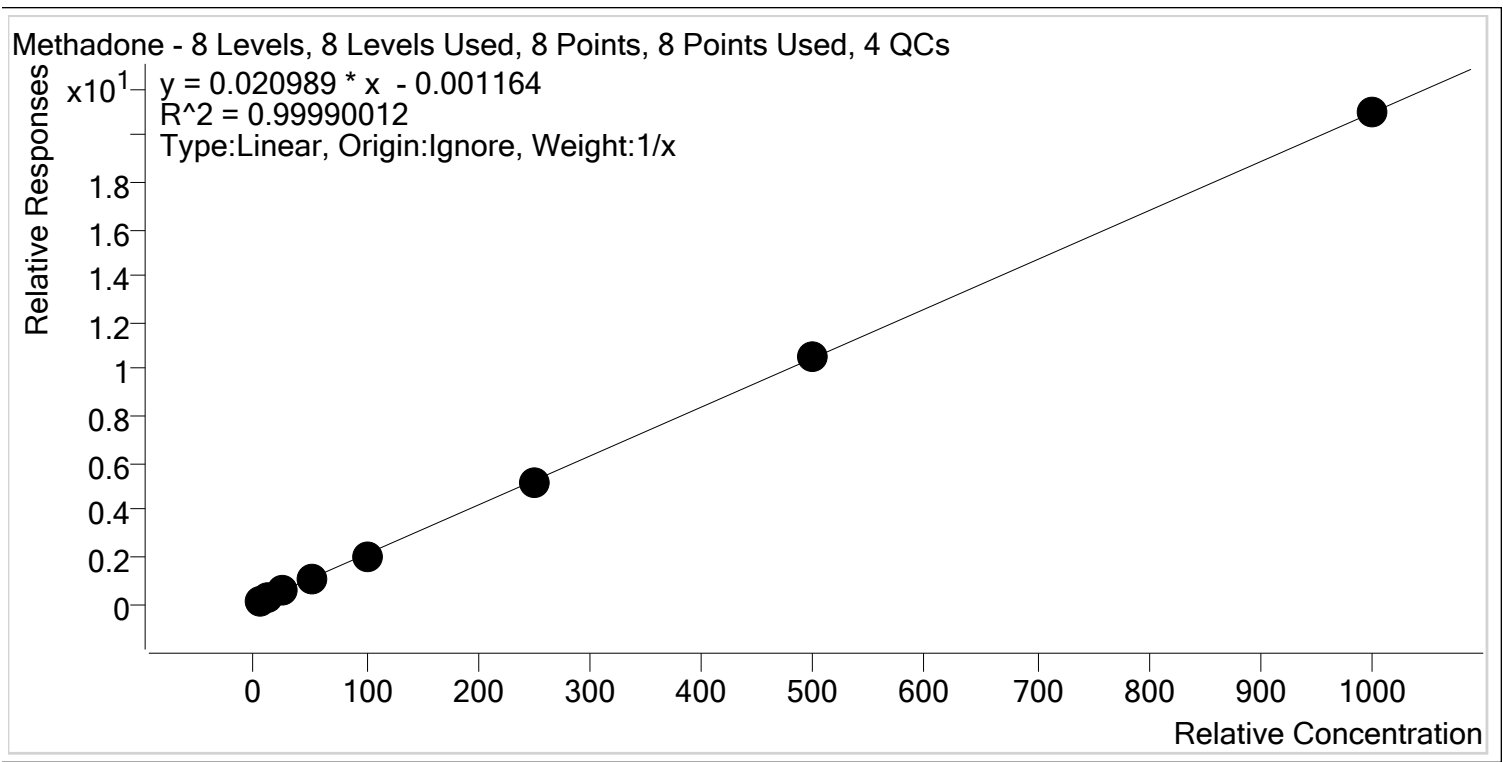


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 102.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.7 | 97.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.1 | 96.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 47.6 | 95.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 92.5 | 92.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 245.5 | 98.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 520.7 | 104.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1134.3 | 113.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



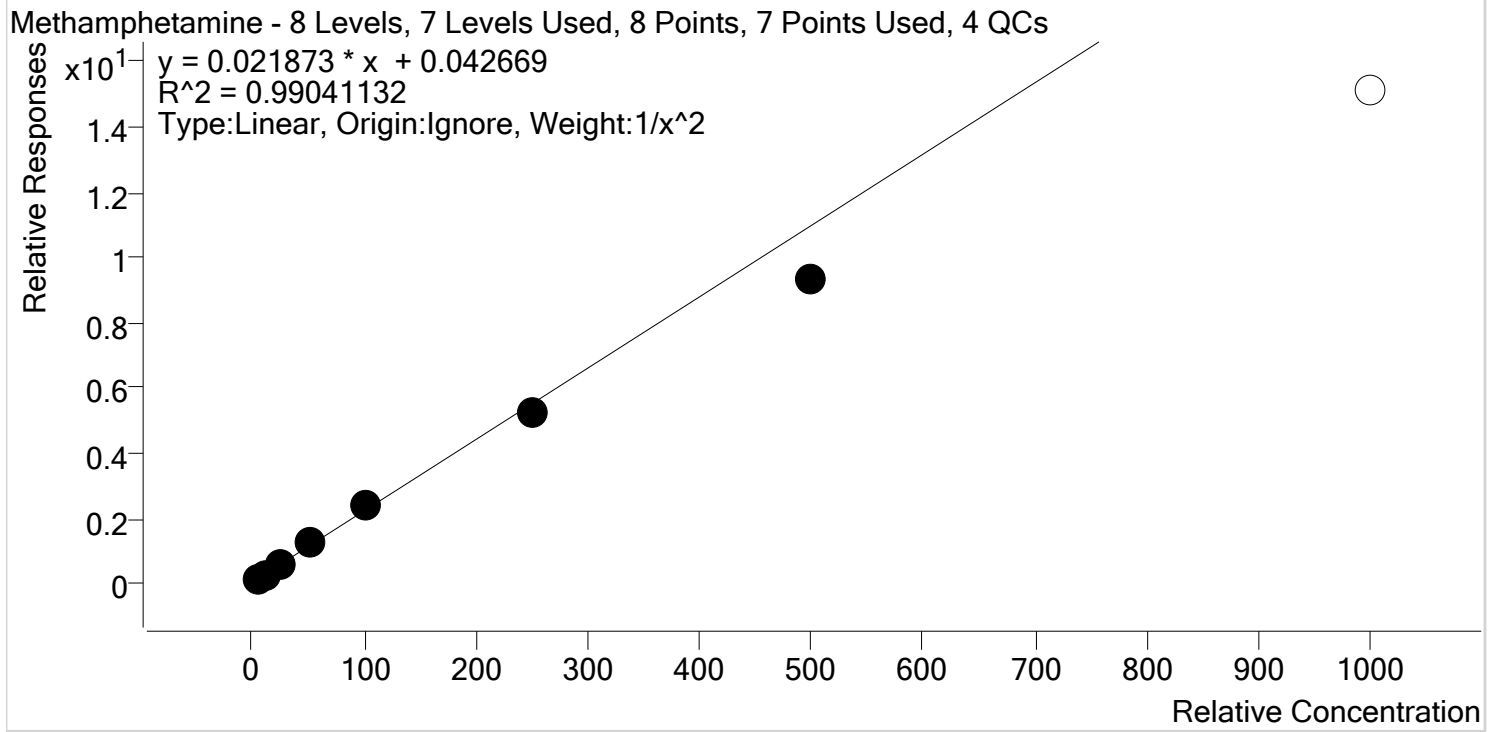
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 102.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.7 | 99.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.0 | 100.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 96.9 | 96.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.8 | 99.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 505.1 | 101.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1000.2 | 100.0 |

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



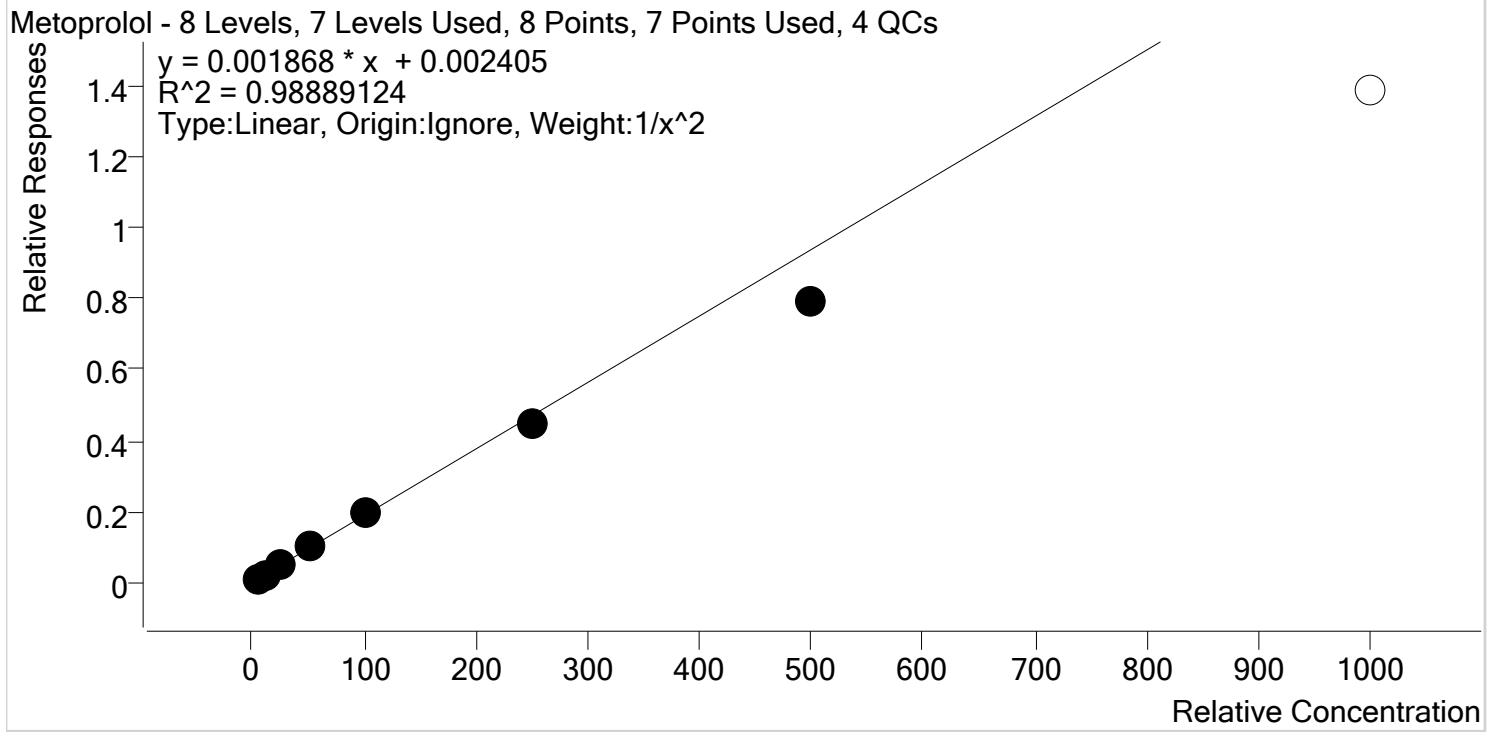
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 96.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 102.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.7 | 106.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.3 | 108.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.3 | 105.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 240.1 | 96.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 422.9 | 84.6 |
| p1 Cal 8-1000ng | 8 | ✗ | 1000.0 | 689.1 | 68.9 |

g



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

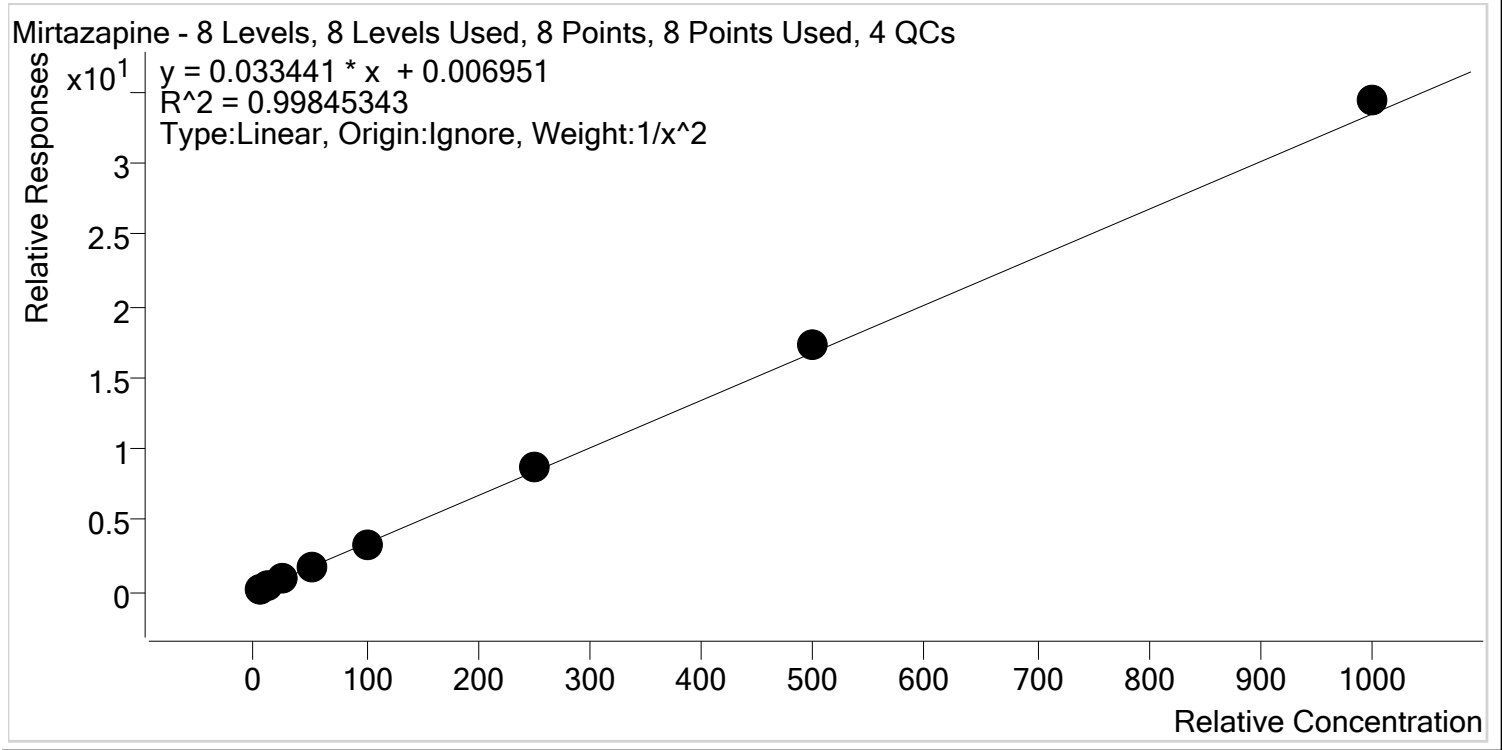


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 95.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.9 | 107.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.0 | 108.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.7 | 105.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 235.6 | 94.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 421.5 | 84.3 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 739.1 | 73.9 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

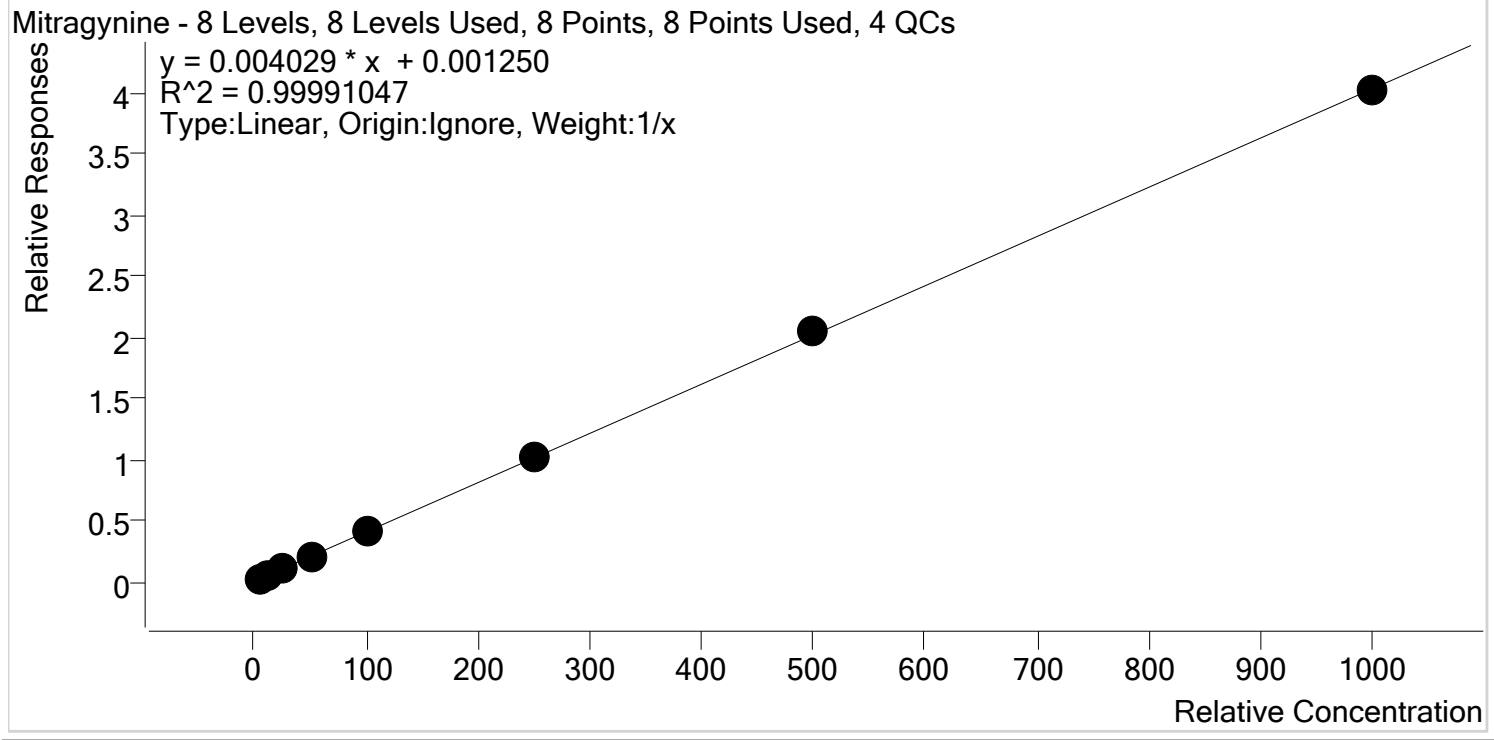


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.6 | 98.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 46.7 | 93.3 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.7 | 97.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 258.7 | 103.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 513.6 | 102.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1028.1 | 102.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

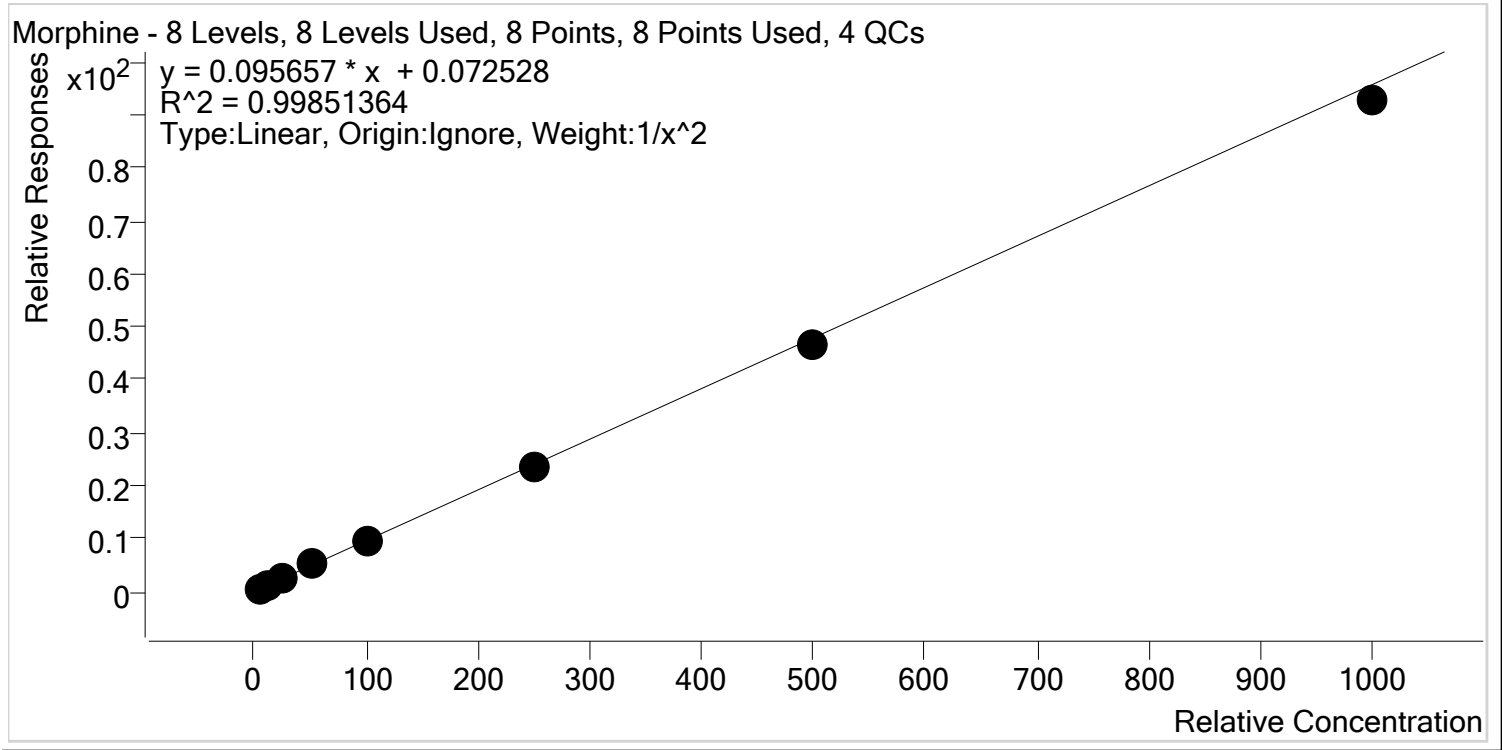


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.8 | 95.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 105.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.4 | 101.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.8 | 97.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 99.6 | 99.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 248.5 | 99.4 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 505.8 | 101.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 996.6 | 99.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

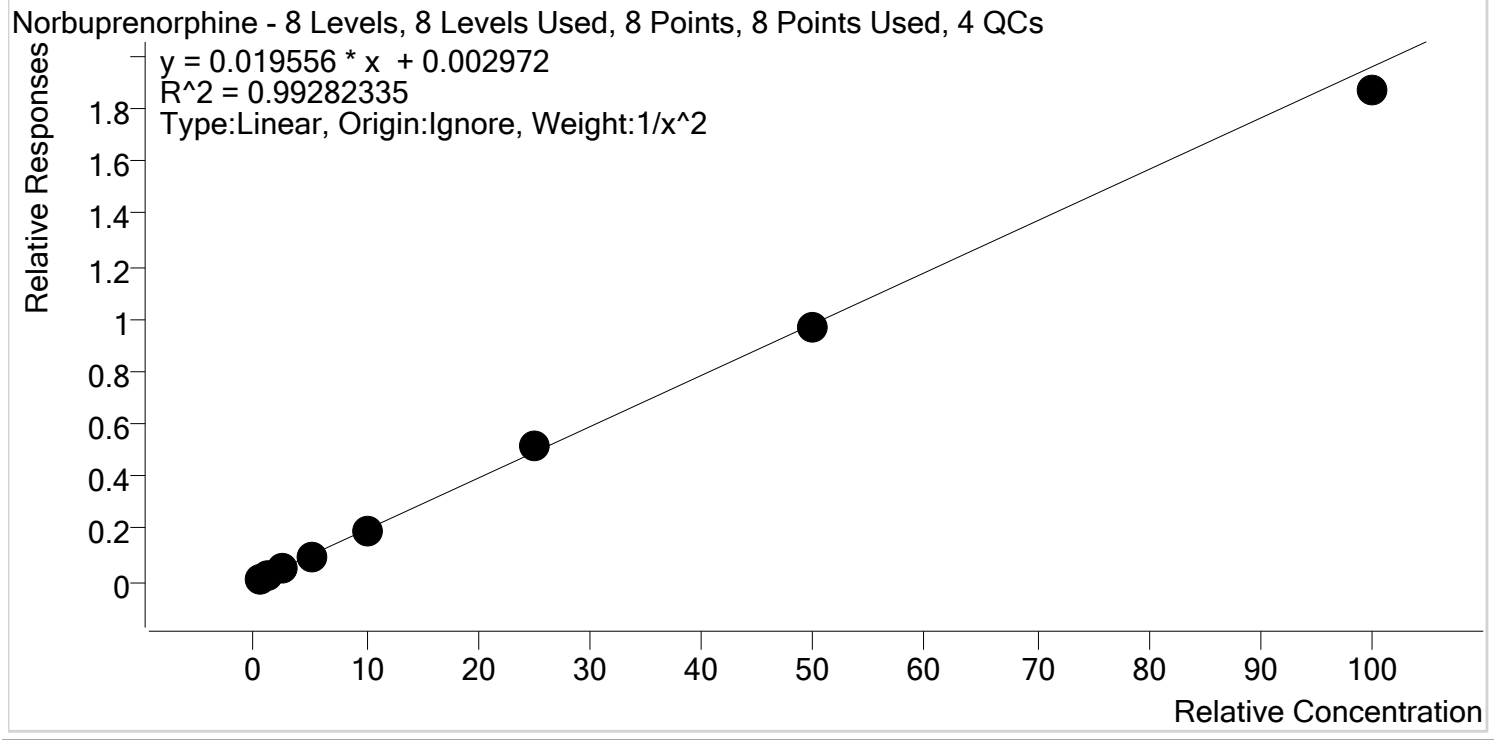


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.9 | 98.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.6 | 102.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 53.5 | 107.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 99.1 | 99.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 245.8 | 98.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 485.8 | 97.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 968.5 | 96.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

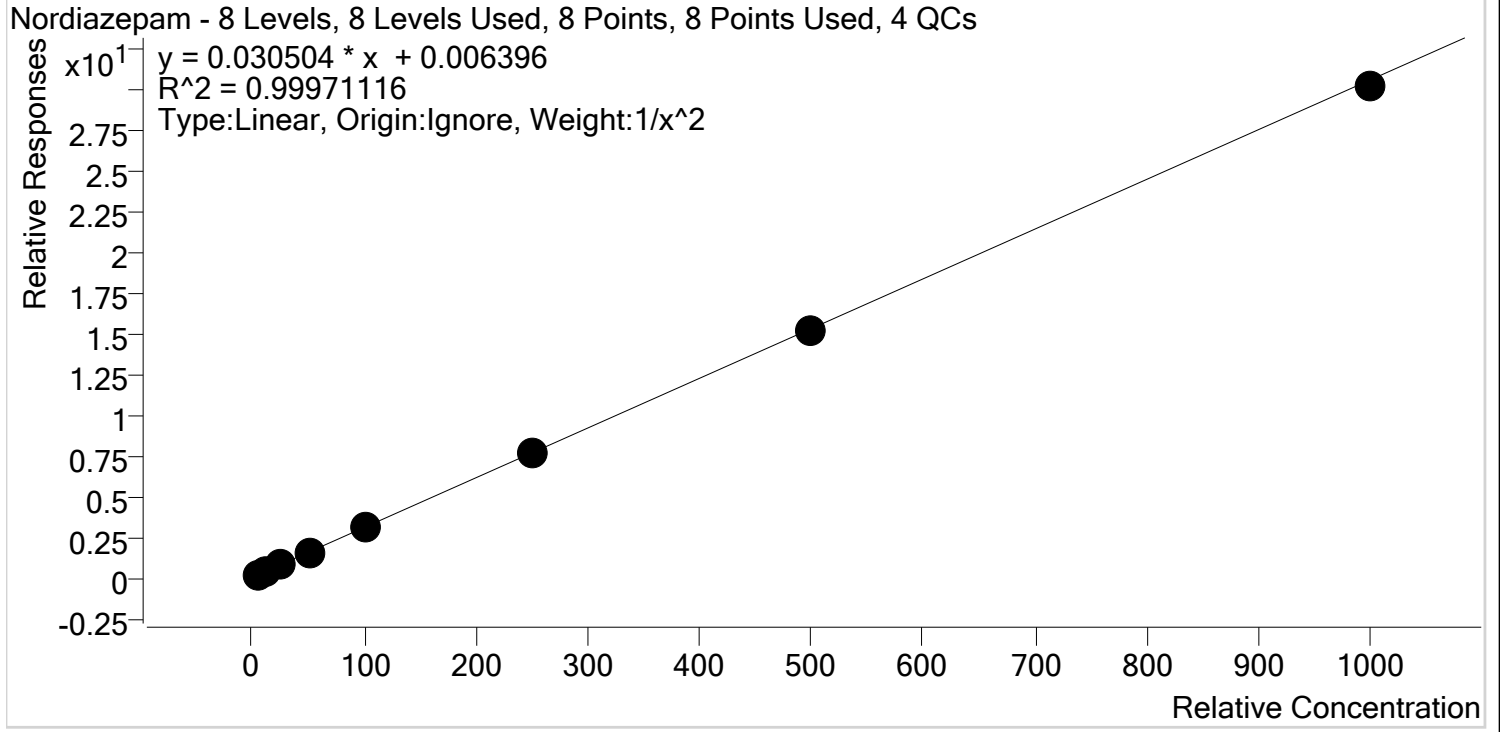


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 0.5 | 0.5 | 92.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.2 | 116.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 97.7 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.9 | 97.2 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.7 | 97.0 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 26.1 | 104.6 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 49.6 | 99.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 95.4 | 95.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

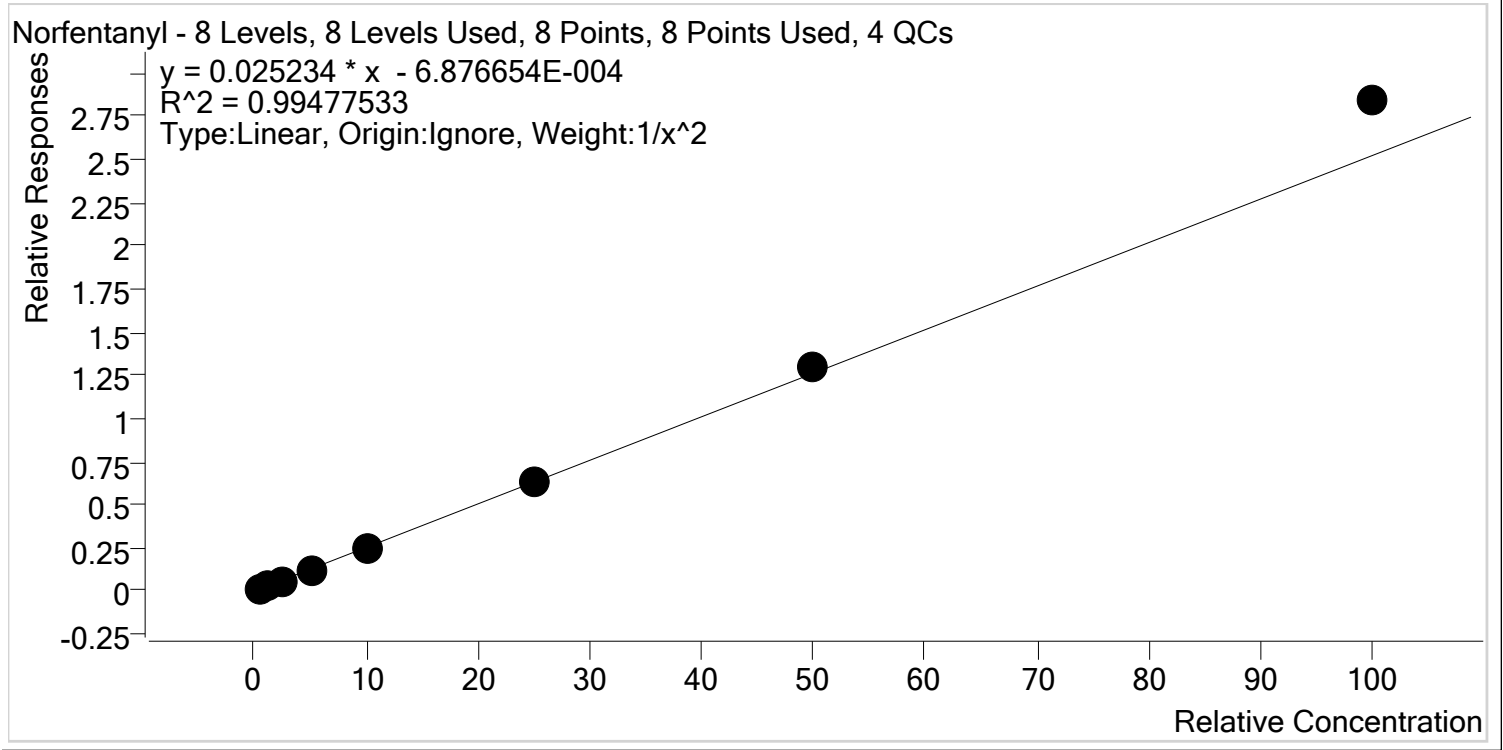


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.3 | 97.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.4 | 100.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.8 | 101.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.6 | 101.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 498.1 | 99.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 986.6 | 98.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

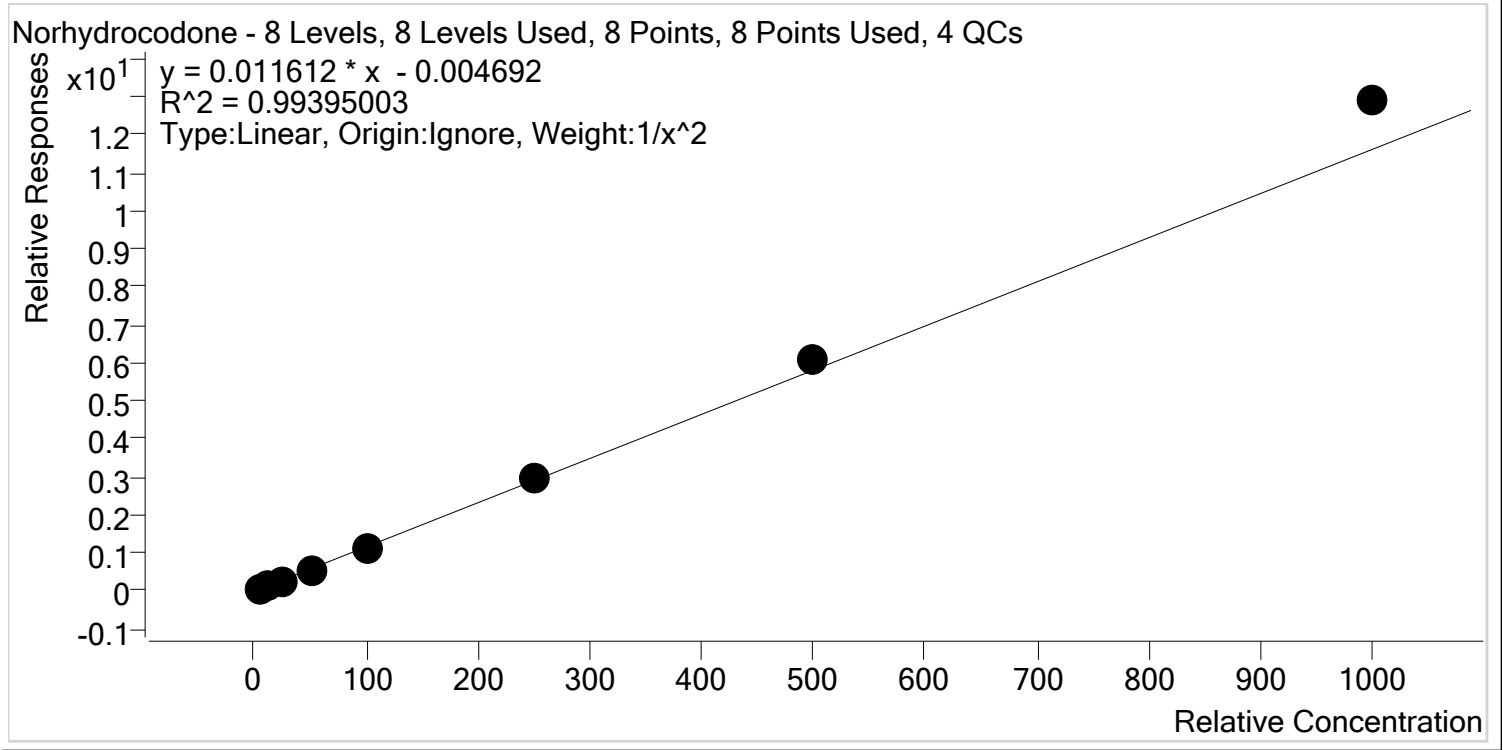


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 0.5 | 0.5 | 103.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 97.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 94.6 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.8 | 95.6 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.3 | 93.4 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.0 | 100.1 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 51.6 | 103.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 112.6 | 112.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

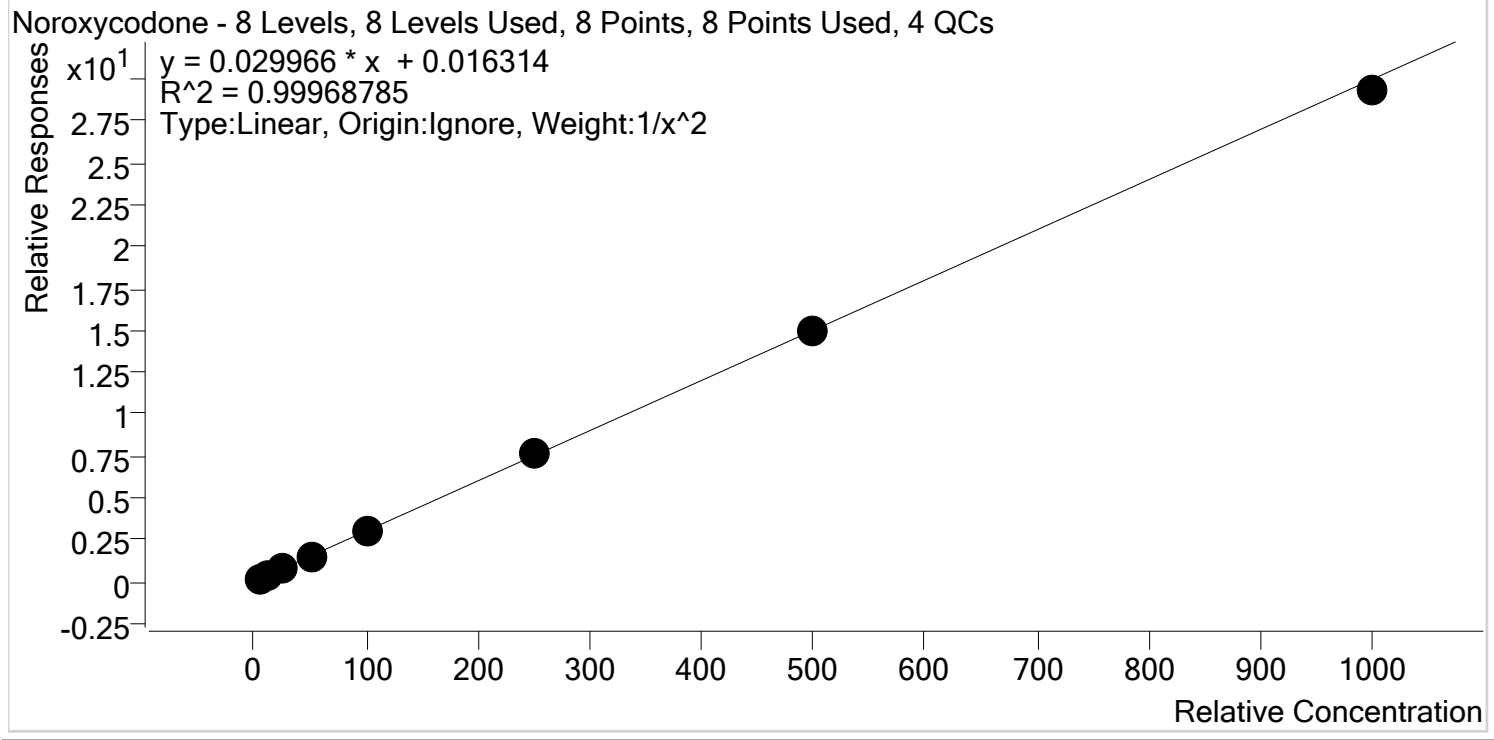


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.3 | 105.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.4 | 93.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 22.8 | 91.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.4 | 96.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 95.8 | 95.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.5 | 100.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 527.1 | 105.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1110.6 | 111.1 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

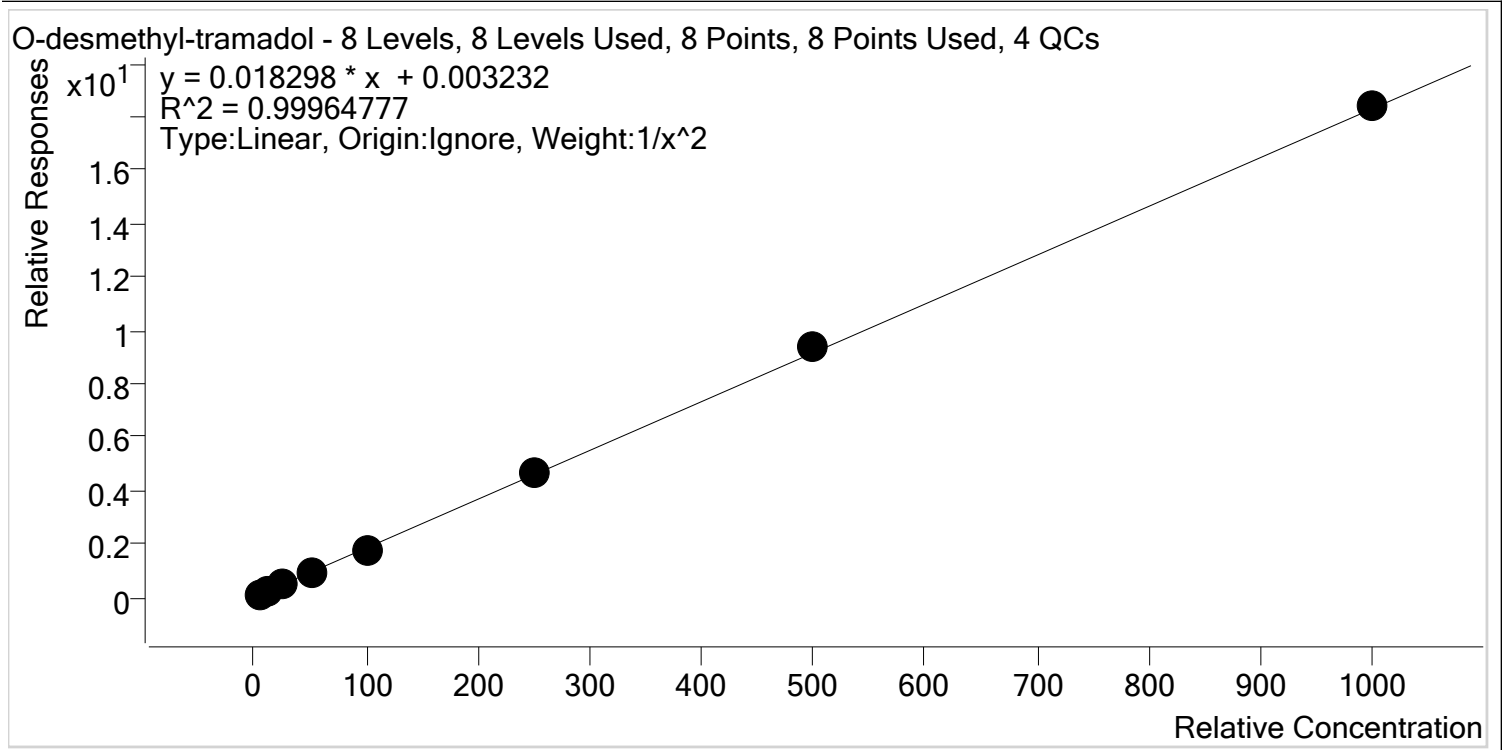


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 98.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.9 | 99.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.5 | 102.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.8 | 100.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.3 | 100.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 495.6 | 99.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 977.6 | 97.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



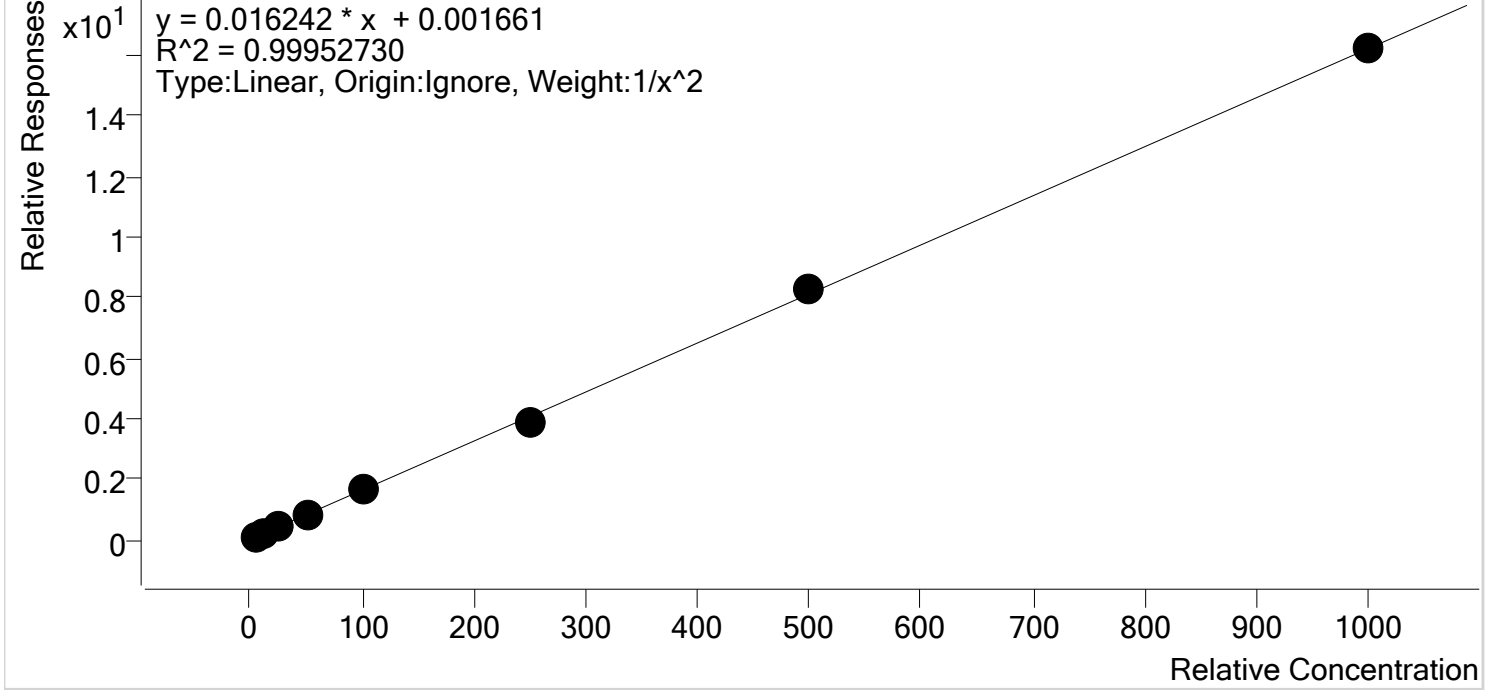
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 99.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.5 | 97.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.9 | 99.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 97.8 | 97.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.1 | 102.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 509.0 | 101.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1005.3 | 100.5 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

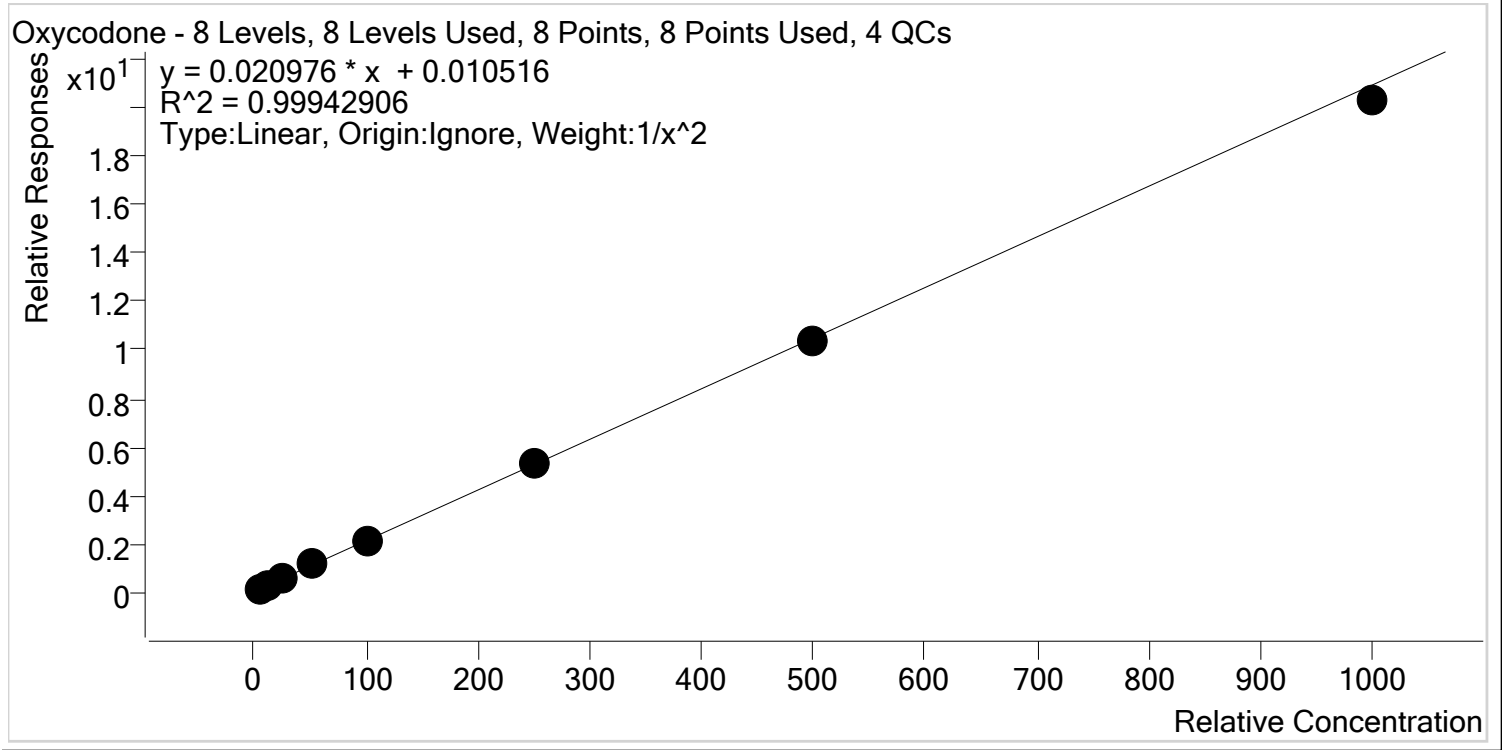


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.4 | 101.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.9 | 101.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.9 | 98.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 240.7 | 96.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 510.2 | 102.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1000.1 | 100.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

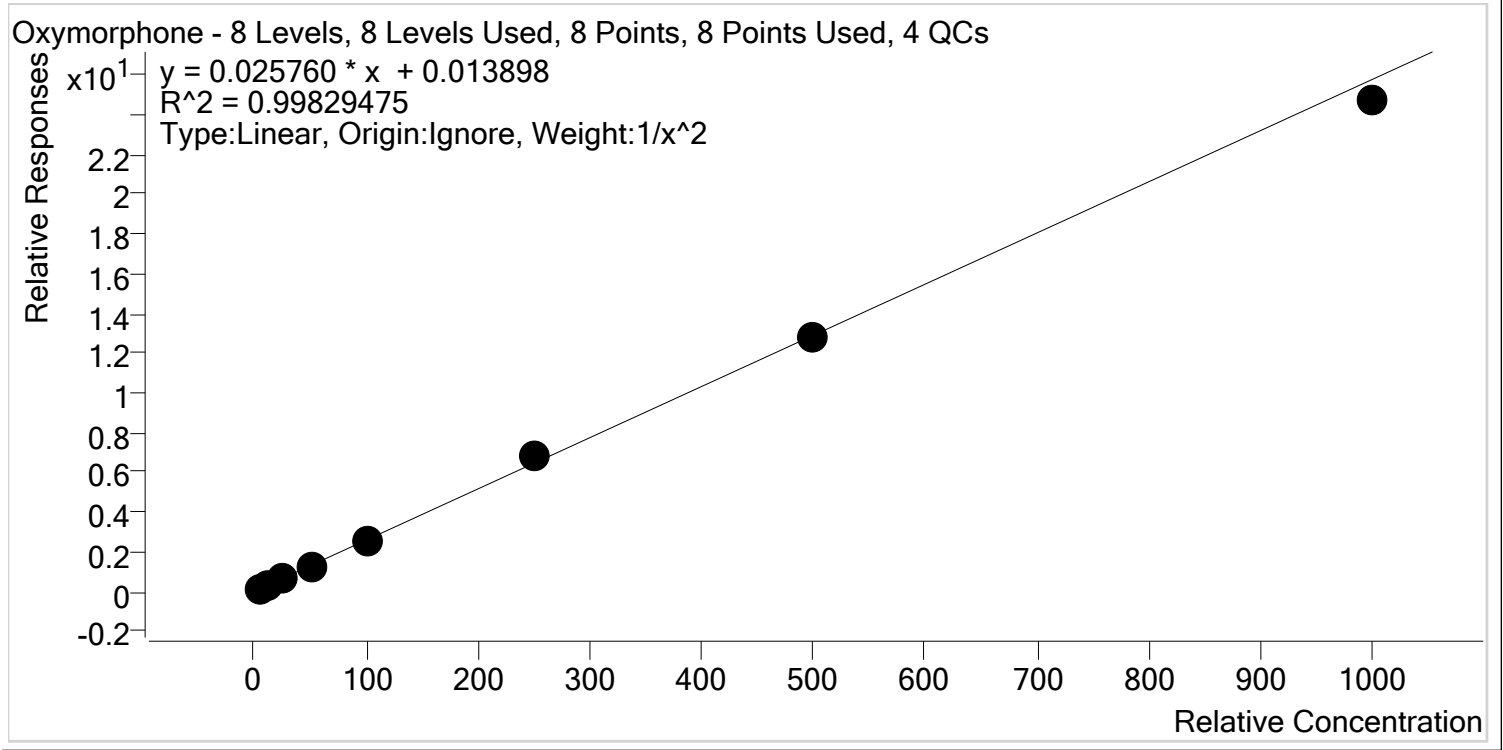


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 99.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.0 | 104.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.4 | 100.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.7 | 101.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 491.3 | 98.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 969.3 | 96.9 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

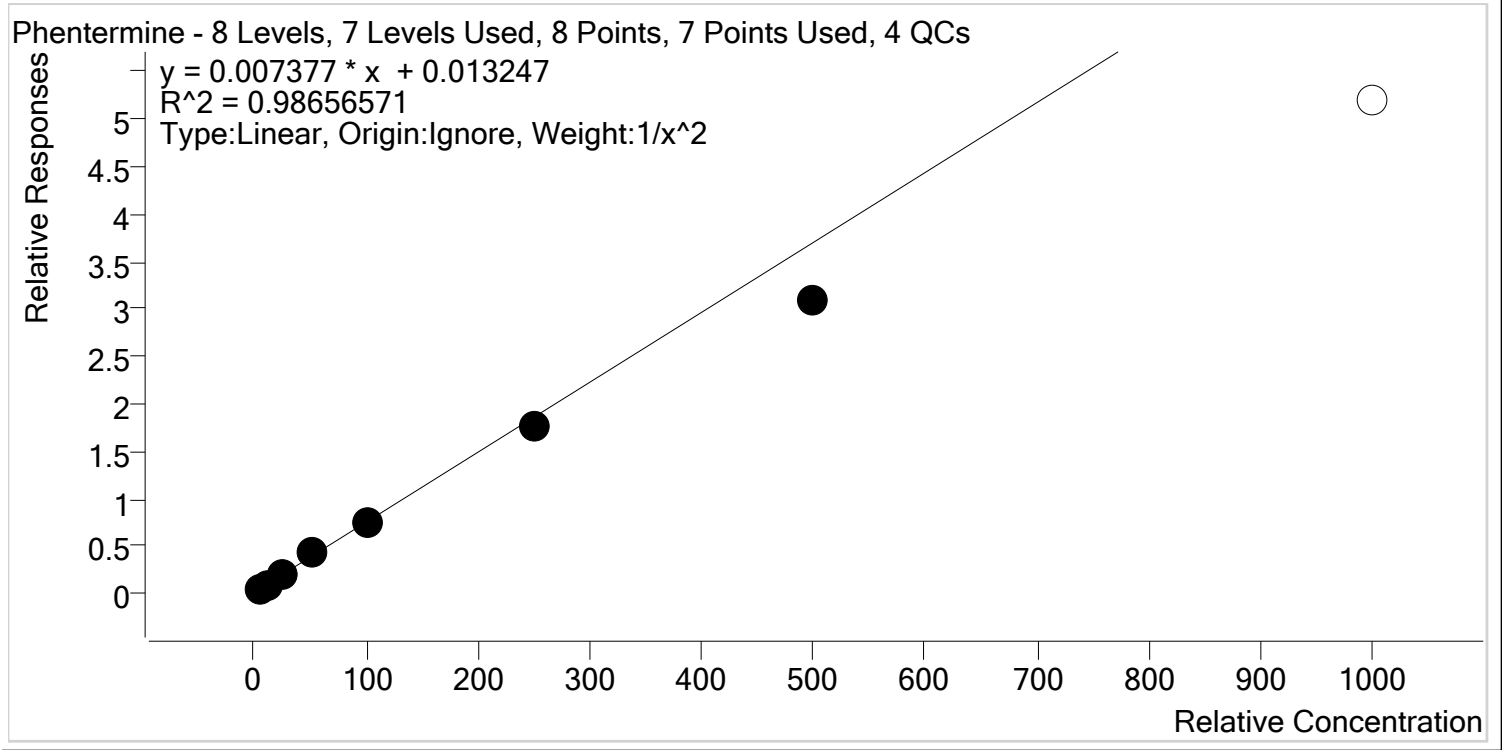


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.2 | 104.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.9 | 99.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 96.1 | 96.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 263.8 | 105.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 493.0 | 98.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 958.7 | 95.9 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

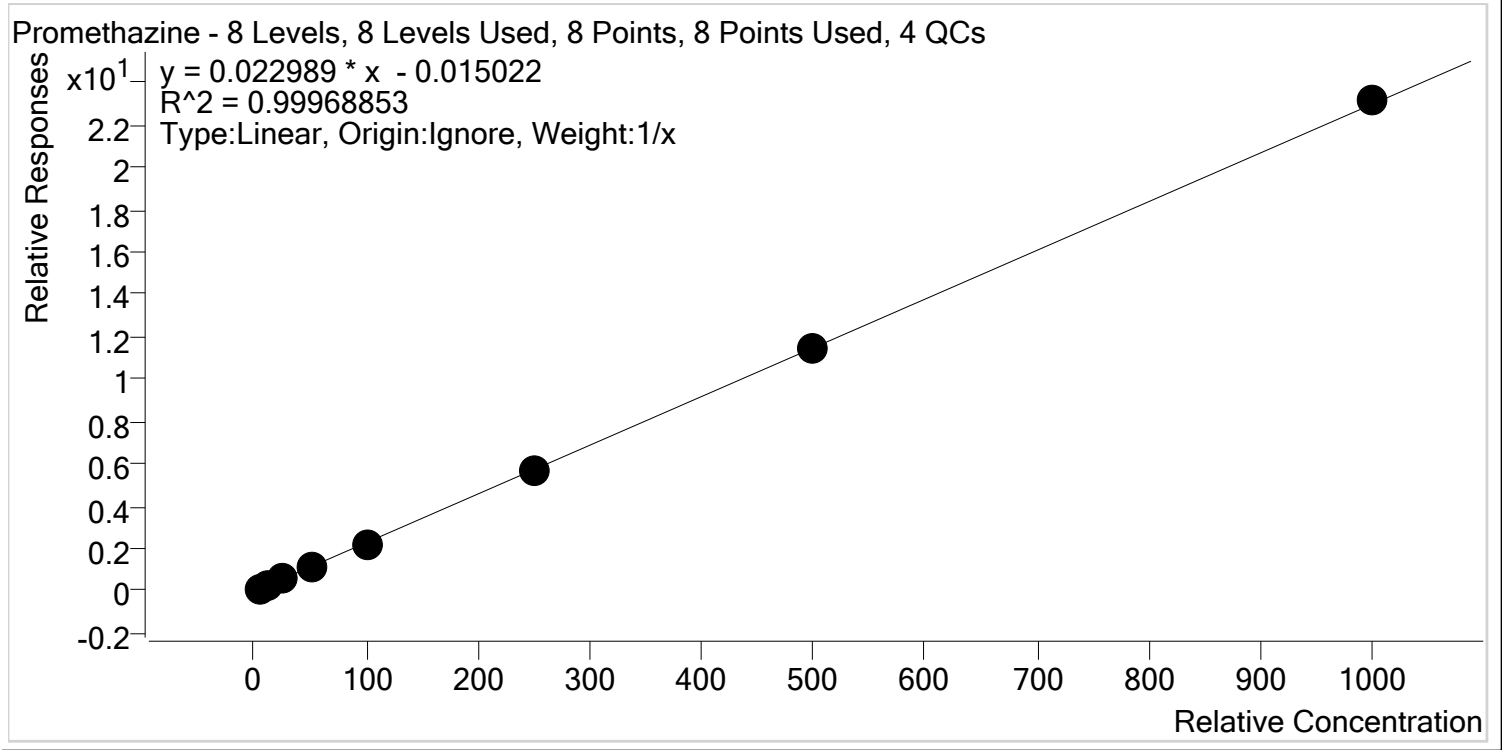


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.7 | 94.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.6 | 105.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.8 | 107.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 56.6 | 113.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.4 | 100.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 238.3 | 95.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 417.5 | 83.5 |
| p1 Cal 8-1000ng | 8 | ✗ | 1000.0 | 702.9 | 70.3 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

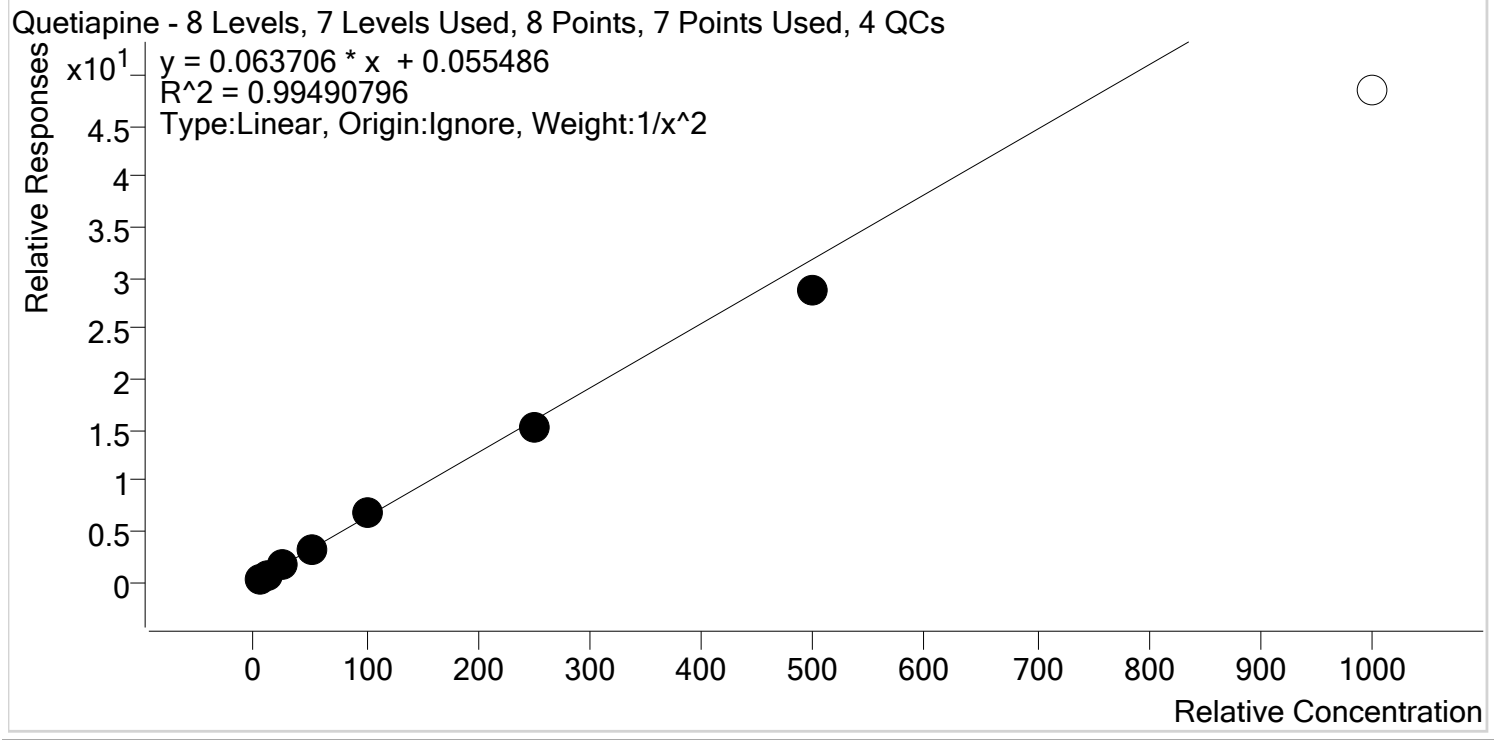


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.5 | 110.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.4 | 97.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 47.8 | 95.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 94.5 | 94.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.7 | 99.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 502.4 | 100.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1007.5 | 100.8 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

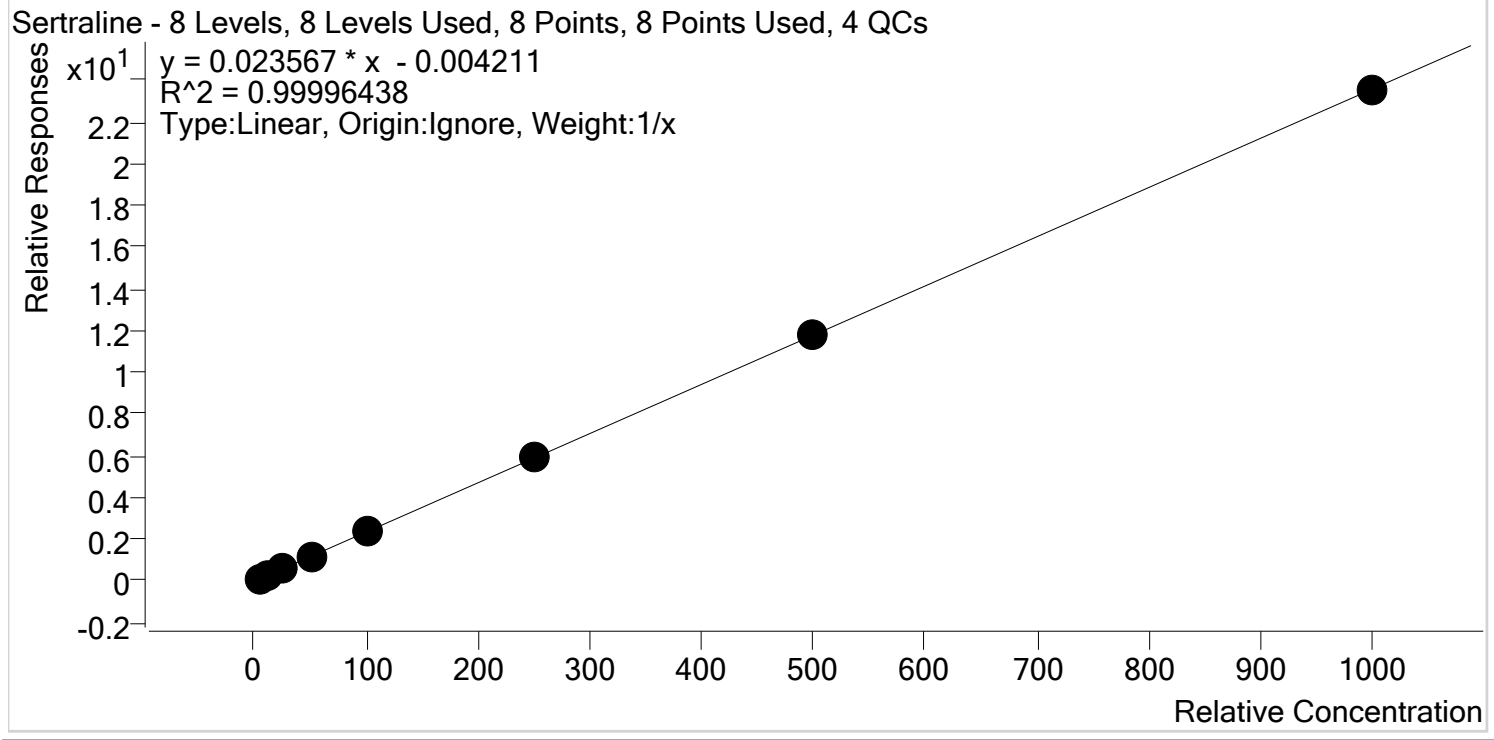


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.9 | 97.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 102.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.3 | 105.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.6 | 105.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.0 | 105.0 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 238.3 | 95.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 448.7 | 89.7 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 760.4 | 76.0 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

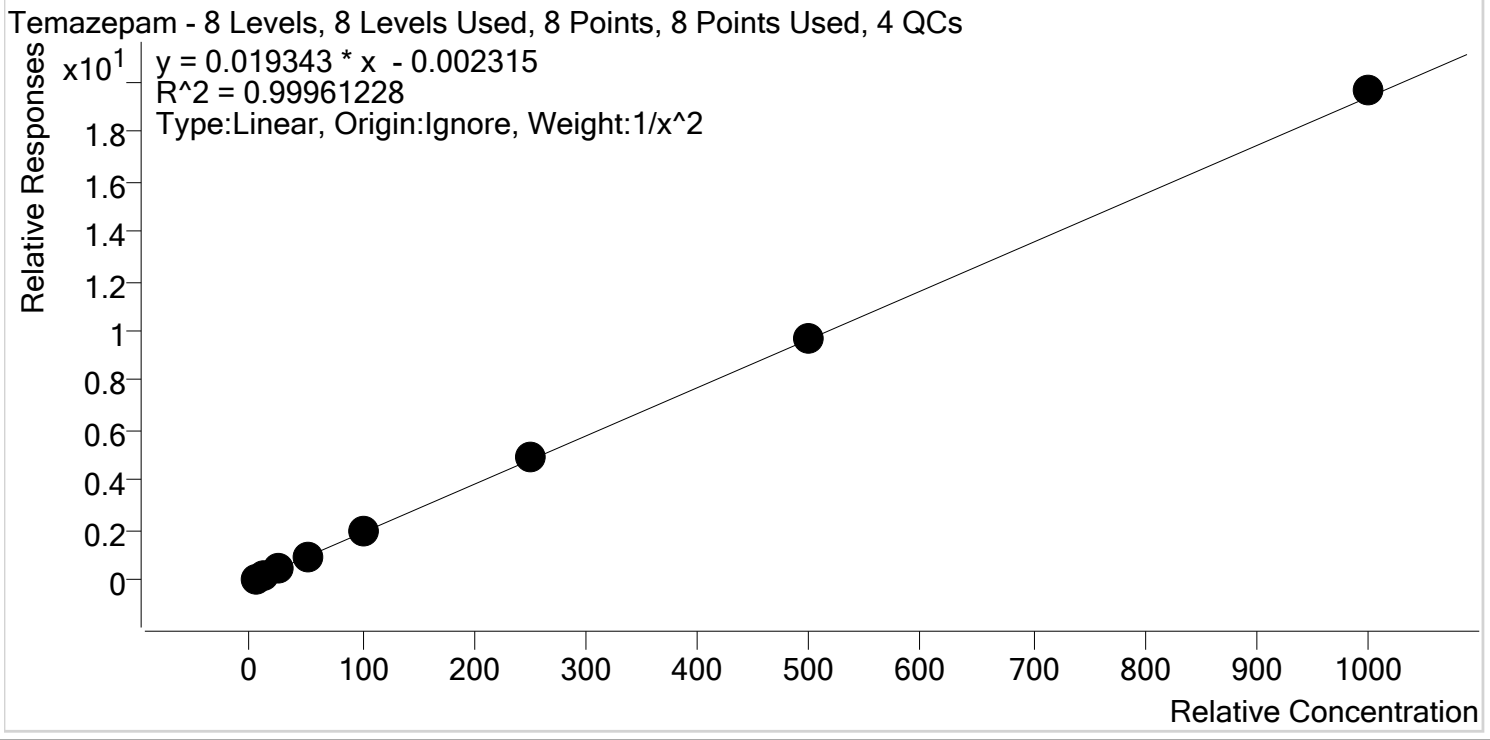


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 102.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 99.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 100.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.4 | 98.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.9 | 98.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.3 | 100.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 504.1 | 100.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 997.1 | 99.7 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

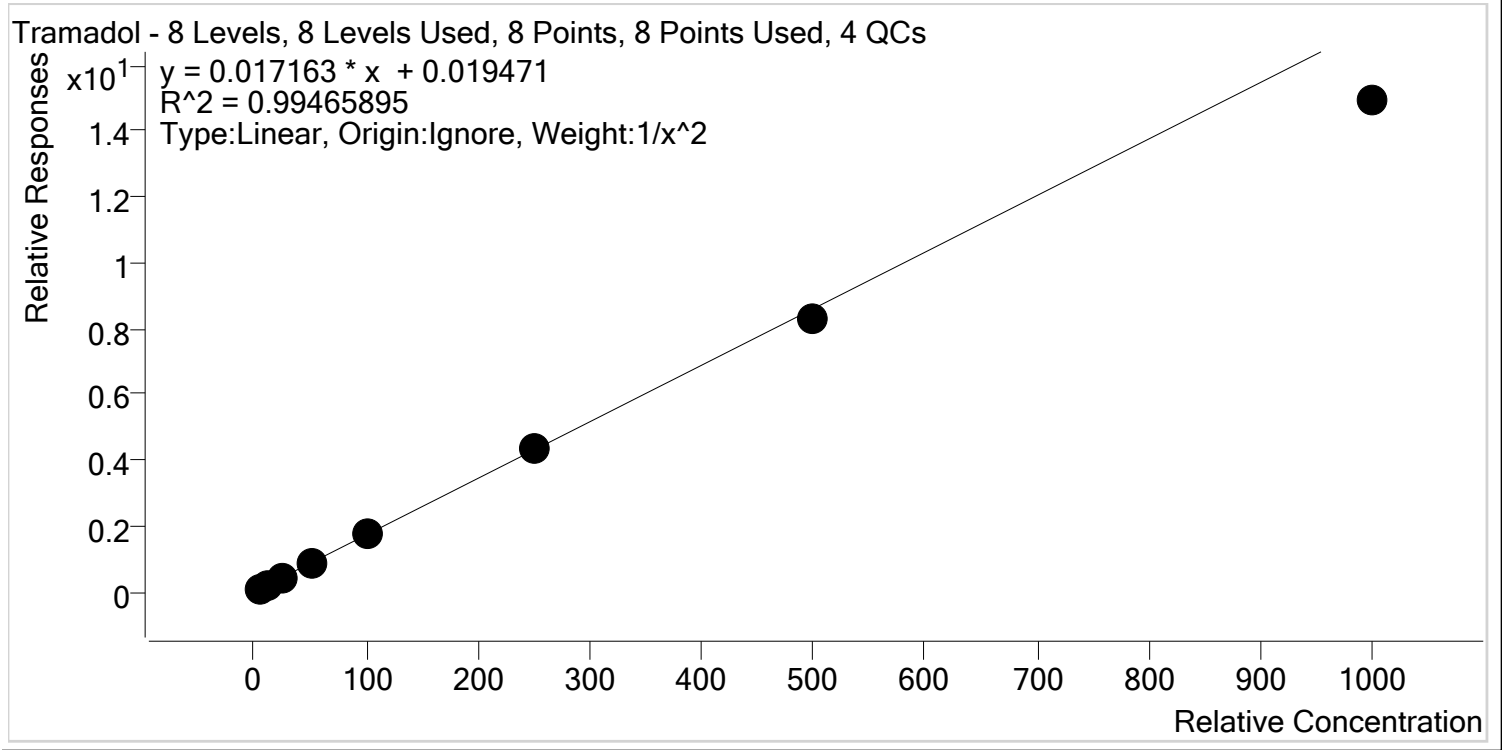


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.1 | 101.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.8 | 97.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.3 | 97.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.2 | 100.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.4 | 100.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 253.3 | 101.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 500.5 | 100.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1013.8 | 101.4 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



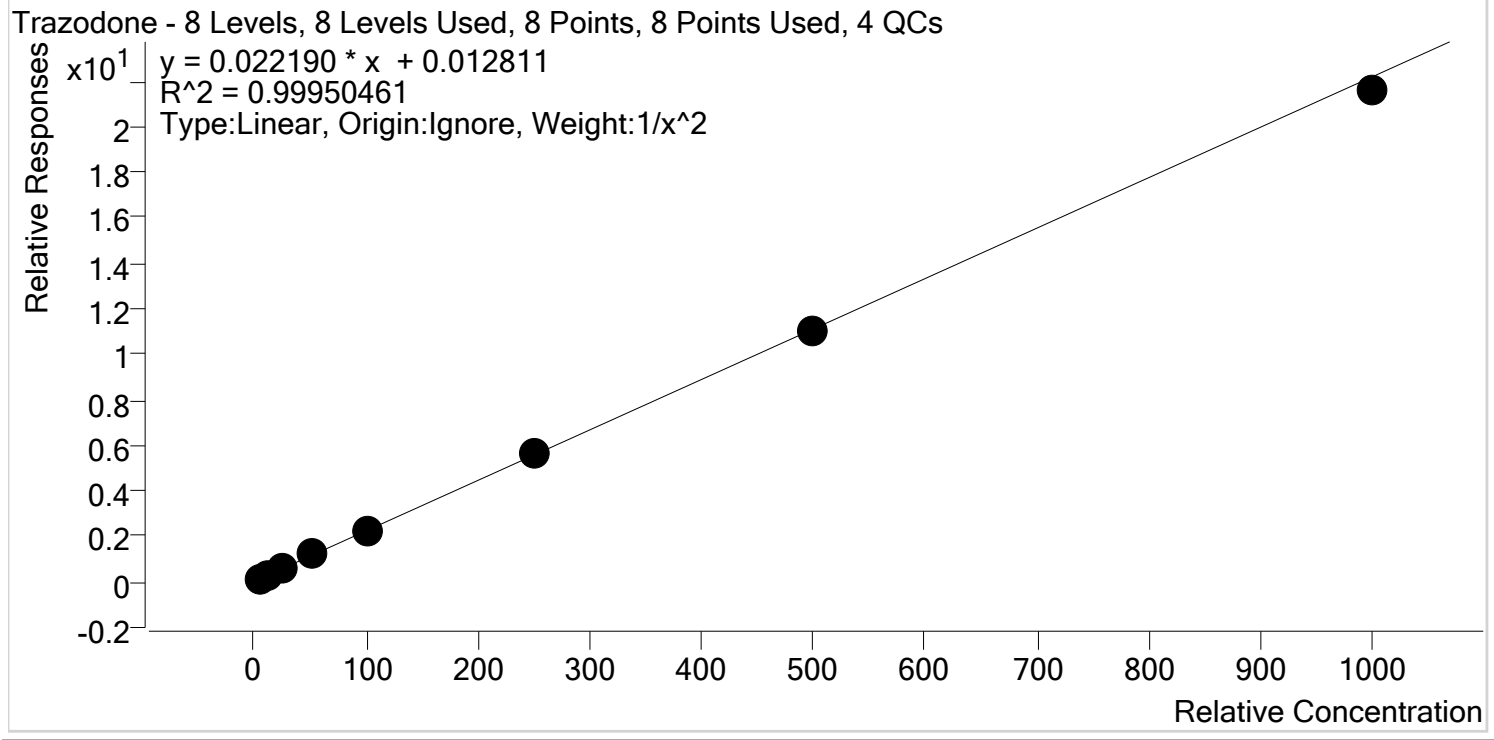
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 4.9 | 97.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.1 | 104.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.8 | 105.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.3 | 105.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.3 | 102.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 481.7 | 96.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 868.0 | 86.8 |

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6



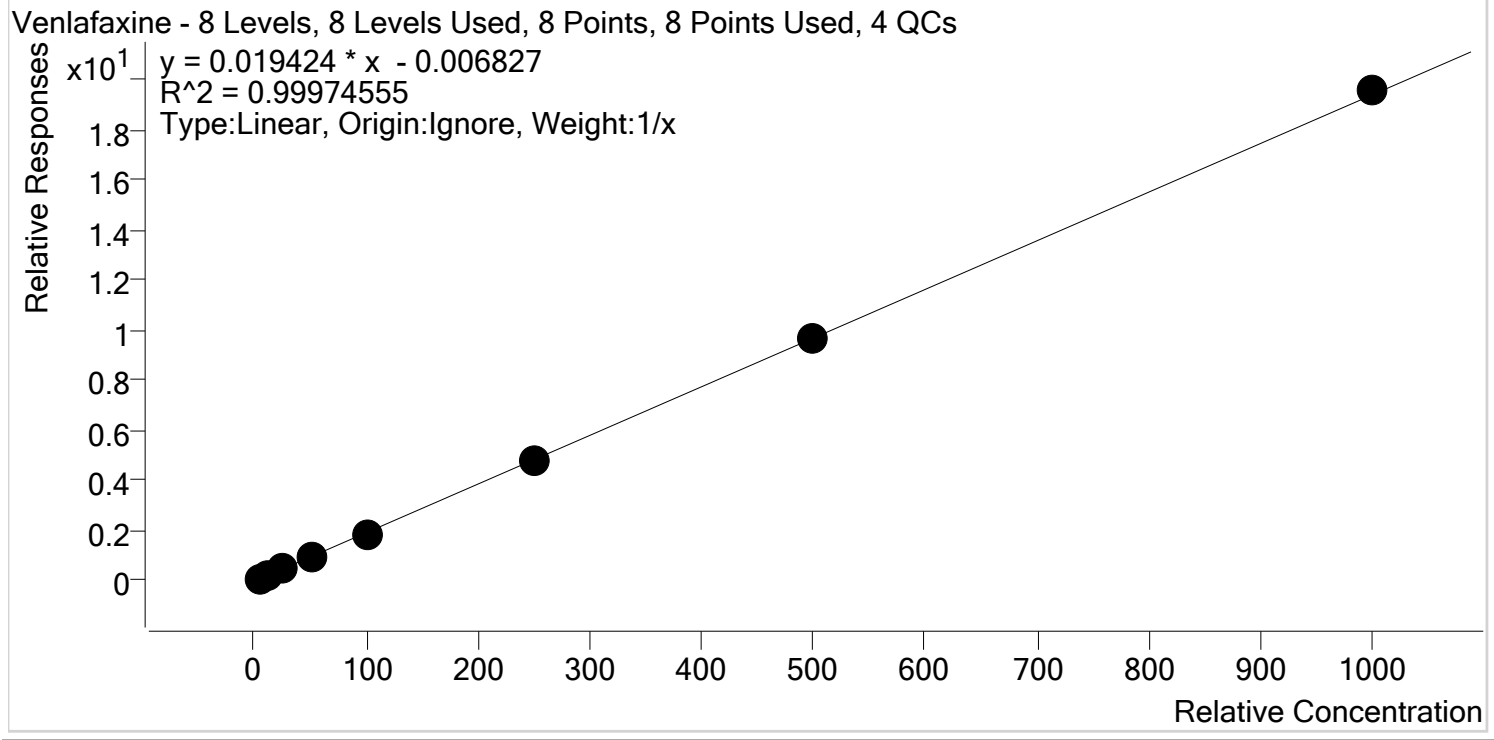
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 100.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 98.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.8 | 99.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.0 | 103.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.6 | 100.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.4 | 100.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 499.4 | 99.9 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 972.7 | 97.3 |

cg



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

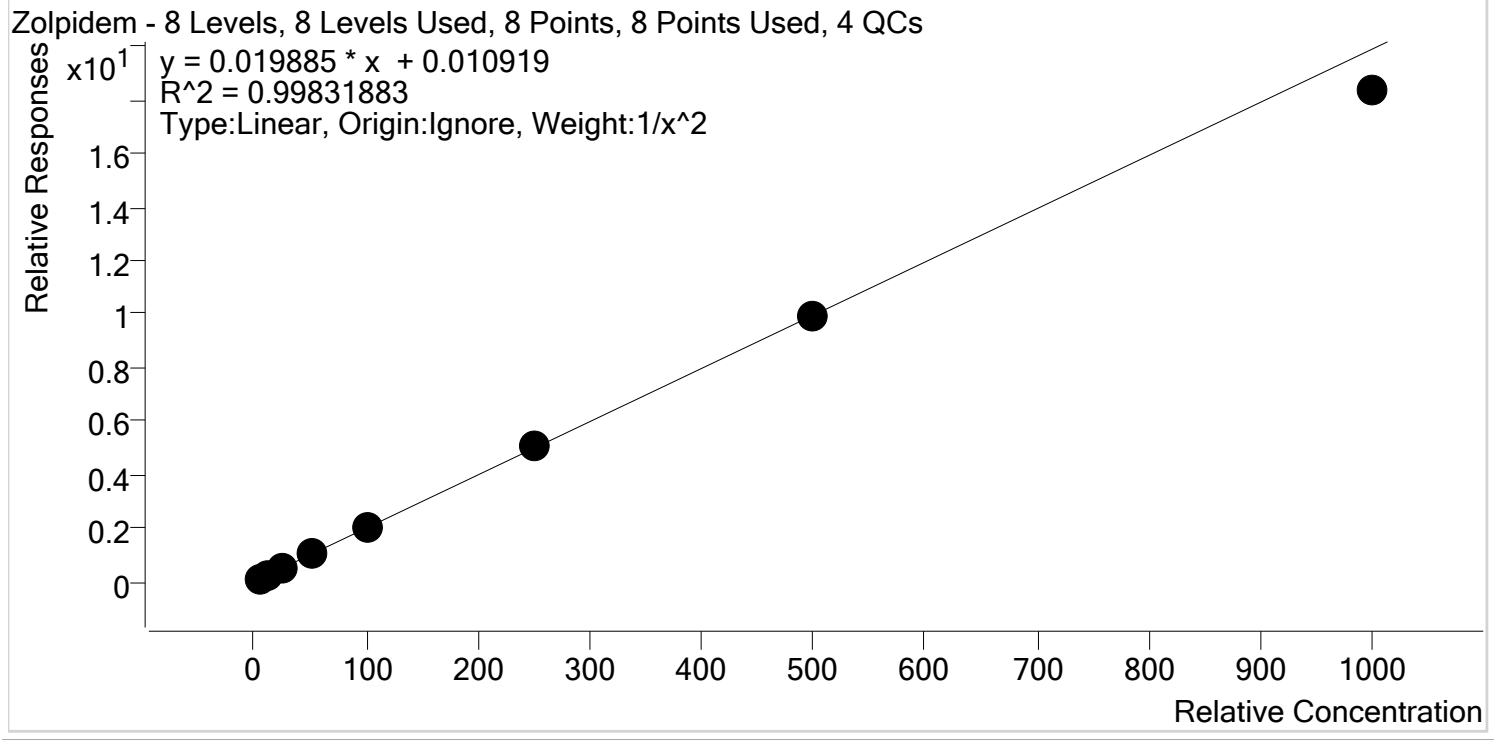


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.4 | 108.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.3 | 97.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.1 | 98.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 94.8 | 94.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.3 | 98.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 500.1 | 100.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1008.9 | 100.9 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Last Cal. Update 2/24/2020 2:14 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng-reinject | 1 | ✓ | 5.0 | 5.0 | 99.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.4 | 101.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.1 | 104.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.8 | 101.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 254.4 | 101.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 496.0 | 99.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 922.1 | 92.2 |

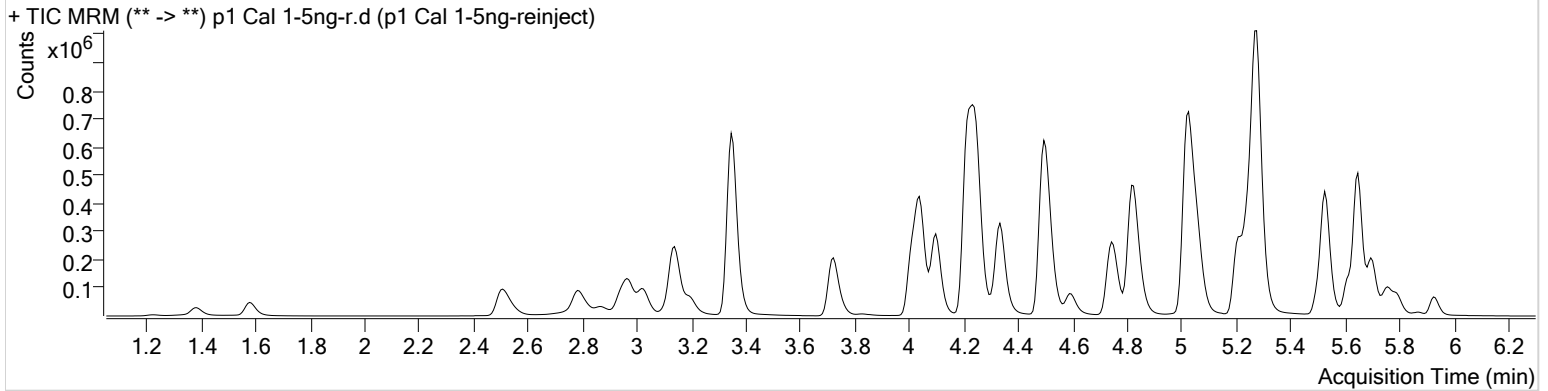
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|-----------------------|
| Instrument | Falco | Data File | p1 Cal 1-5ng-r.d |
| Type | Cal | Sample | p1 Cal 1-5ng-reinject |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-A5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:00:44 PM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|----------|-----------------|-----------------|------------|--------------|
| 6-MAM | 3.116 | 1204 | 204.50 | 68.4 | 40.47 | 51647 | 0.5110 ng/ml |
| 7-aminoclonazepam | 4.237 | 10793 | 111.13 | 78.6 | 845.90 | 84025 | 4.7934 ng/ml |
| a-hydroxyalprazolam | 5.687 | 1936 | 109.49 | 55.9 | 204.78 | 7593 | 5.1982 ng/ml |
| alpha-PVP | 4.344 | 83257 | 1360.66 | 50.8 | 883.68 | 720075 | 5.3149 ng/ml |
| Alprazolam | 5.756 | 23296 | 395.10 | 100.4 | 689.49 | 121793 | 5.1504 ng/ml |
| Amphetamine | 3.028 | 110499 | 712.34 | 51.4 | 1524.78 | 241122 | 4.8140 ng/ml |
| Buprenorphine | 5.686 | 2273 | 70.64 | 19.2 | 43.90 | 178765 | 0.5032 ng/ml |
| Bupropion | 4.766 | 92206 | ∞ | 58.7 | 479.37 | 644713 | 4.5187 ng/ml |
| Carisoprodol | 5.705 | 14767 | 609.16 | 51.6 | 40.95 | 145667 | 5.0363 ng/ml |
| Citalopram | 5.209 | 68914 | 403.17 | 40.5 | 70033.33 | 597102 | 5.1820 ng/ml |
| Clonazepam | 5.593 | 3505 | ∞ | 33.9 | ∞ | 7912 | 5.0345 ng/ml |
| Cocaine | 4.243 | 77490 | 4937.86 | 44.4 | 1126.84 | 1179353 | 5.3862 ng/ml |
| Codeine | 2.563 | 8252 | 436.99 | 103.3 | 1032.77 | 68350 | 4.8388 ng/ml |
| Cyclobenzaprine | 5.617 | 34083 | 747.79 | 9.1 | 77.85 | 254673 | 5.0225 ng/ml |
| Dextromethorphan | 5.252 | 39688 | 218.94 | 80.5 | 1825.93 | 355030 | 5.1278 ng/ml |
| Dextrorphan | 4.100 | 25195 | 602.52 | 208.2 | 5911.42 | 623810 | 5.1822 ng/ml |
| Diazepam | 5.934 | 13372 | 146.99 | 90.0 | 230.92 | 124948 | 5.0486 ng/ml |
| Dihydrocodeine | 2.541 | 22049 | 862.13 | 69.5 | 501.54 | 235122 | 4.7470 ng/ml |
| Diphenhydramine | 5.279 | 154827 | 1246.94 | 34.2 | 1422.34 | 2161767 | 5.6257 ng/ml |
| Doxylamine | 4.514 | 188556 | 2771.75 | 97.6 | 3640.18 | 1567620 | 3.6289 ng/ml |
| EDDP | 5.251 | 42559 | 6381.45 | 41.4 | 298.05 | 433729 | 5.0808 ng/ml |
| Fentanyl | 5.072 | 4228 | 1487.52 | 68.7 | 286.32 | 443416 | 0.5223 ng/ml |
| Fluoxetine | 5.702 | 24808 | 1116.36 | 8.2 | ∞ | 204447 | 5.3966 ng/ml |
| Hydrocodone | 2.998 | 21283 | 144.00 | 40.7 | 459.85 | 257861 | 4.9726 ng/ml |
| Hydromorphone | 1.587 | 15579 | 100.62 | 79.5 | 449.02 | 117012 | 4.9712 ng/ml |
| Ketamine | 4.026 | 65695 | 2571.50 | 37.2 | 410.49 | 573058 | 4.9153 ng/ml |
| Lamotrigine | 4.254 | 5956 | ∞ | 81.0 | 714.04 | 573058 | 4.8042 ng/ml |
| Lorazepam | 5.728 | 956 | 14.92 | 47.0 Low | 2.20 Low | 7912 | 5.1963 ng/ml |
| Meprobamate | 4.881 | 3911 | 838.61 | 25.3 | 69.78 | 36912 | 5.1400 ng/ml |
| Methadone | 5.648 | 89823 | 613.34 | 54.5 | 4109.57 | 840524 | 5.1468 ng/ml |
| Methamphetamine | 3.202 | 97442 | 666.59 | 41.9 | 1460.40 | 656661 | 4.8335 ng/ml |
| Metoprolol | 4.313 | 17590 | 1032.43 | 98.2 | 825.83 | 1556826 | 4.7612 ng/ml |
| Mirtazapine | 4.596 | 125903 | 18403.11 | 50.0 | 13203.45 | 720075 | 5.0206 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|---------|-------|----------|------------|--------------|
| Mitragynine | 5.207 | 17258 | 7101.72 | 38.8 | 147.98 | 840524 | 4.7861 ng/ml |
| Morphine | 1.233 | 3516 | 996.78 | 23.9 | 101.89 | 6453 | 4.9369 ng/ml |
| Norbuprenorphine | 4.983 | 116 | 13.46 | 71.5 | 154.65 | 9668 | 0.4636 ng/ml |
| Nordiazepam | 5.874 | 2651 | 793.10 | 55.1 | 90.83 | 16698 | 4.9939 ng/ml |
| Norfentanyl | 4.068 | 10548 | 3203.39 | 37.9 | ∞ | 857425 | 0.5148 ng/ml |
| Norhydrocodone | 3.046 | 3696 | 204.73 | 43.8 | 856.75 | 65520 | 5.2622 ng/ml |
| Noroxycodone | 2.889 | 13823 | 263.53 | 49.4 | 15.97 | 82983 | 5.0145 ng/ml |
| O-desmethyl-tramadol | 3.354 | 148259 | 3945.03 | 6.1 | 1765.90 | 1551927 | 5.0444 ng/ml |
| Oxazepam | 5.738 | 1010 | 14.73 | 71.8 | 7.09 | 12211 | 4.9917 ng/ml |
| Oxycodone | 2.814 | 35778 | 1197.86 | 32.0 | 1305.74 | 310650 | 4.9892 ng/ml |
| Oxymorphone | 1.383 | 11665 | 675.43 | 50.4 | 663.79 | 82424 | 4.9544 ng/ml |
| Phentermine | 3.758 | 27748 | 1082.54 | 2.6 | 21.12 | 576608 | 4.7275 ng/ml |
| Promethazine | 5.534 | 82736 | 924.22 | 29.7 | 1587.91 | 740130 | 5.5160 ng/ml |
| Quetiapine | 5.517 | 85538 | 1187.94 | 60.6 | 88216.97 | 234176 | 4.8627 ng/ml |
| Sertraline | 5.770 | 7237 | 139.27 | 94.5 | 150.14 | 62398 | 5.1003 ng/ml |
| Temazepam | 5.798 | 10636 | 141.67 | 30.9 | 26.90 | 110782 | 5.0828 ng/ml |
| Tramadol | 4.226 | 160459 | 4111.46 | 3.5 | 111.04 | 1556826 | 4.8709 ng/ml |
| Trazodone | 5.065 | 70363 | 3549.91 | 78.6 | 2995.12 | 566328 | 5.0217 ng/ml |
| Venlafaxine | 5.027 | 124728 | 2875.77 | 36.3 | 287.76 | 1265204 | 5.4268 ng/ml |
| Zolpidem | 4.837 | 129095 | 1493.09 | 30.3 | 370.54 | 1179123 | 4.9567 ng/ml |

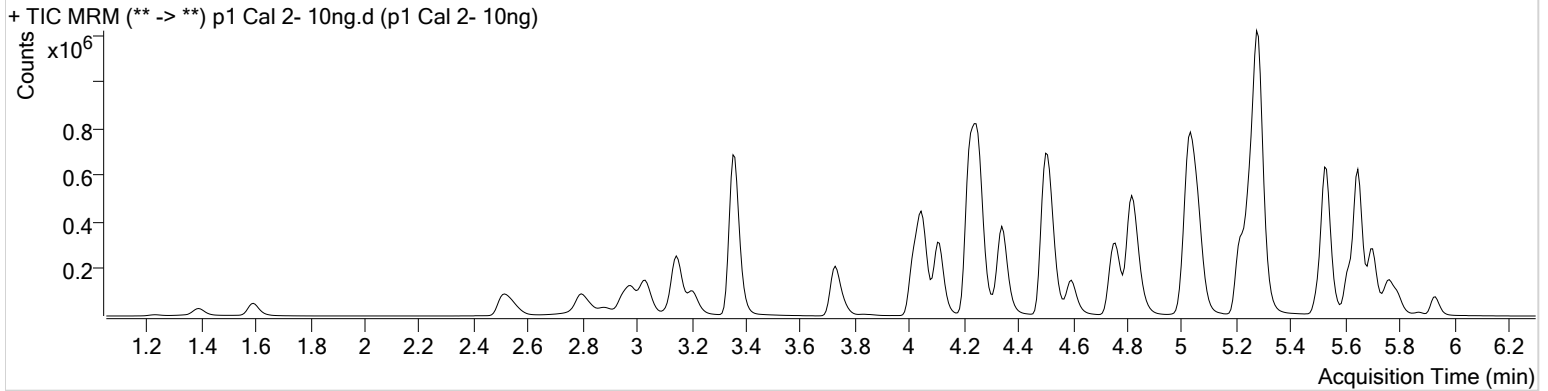
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco | Data File | p1 Cal 2- 10ng.d |
| Type | Cal | Sample | p1 Cal 2- 10ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-B5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:10:19 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|-----------|-------|-----------|------------|---------------|
| 6-MAM | 3.130 | 2184 | 109.61 | 69.7 | 1233.83 | 50492 | 0.9799 ng/ml |
| 7-aminoclonazepam | 4.244 | 21781 | 731.87 | 81.2 | 1111.57 | 87012 | 10.3844 ng/ml |
| a-hydroxyalprazolam | 5.680 | 3517 | 330.76 | 65.9 | ∞ | 7819 | 9.4620 ng/ml |
| alpha-PVP | 4.350 | 166303 | 1032.77 | 50.8 | 1891.56 | 729624 | 10.1881 ng/ml |
| Alprazolam | 5.756 | 47353 | 794.83 | 99.9 | 316.44 | 127967 | 9.8869 ng/ml |
| Amphetamine | 3.034 | 205659 | ∞ | 53.2 | 3266.60 | 245027 | 10.2741 ng/ml |
| Benzoylcegonine | 3.860 | 2867 | 471.01 | 8.3 | 12.72 | 11712 | 9.8844 ng/ml |
| Buprenorphine | 5.672 | 5111 | 102.95 | 17.7 | 1595.73 | 188101 | 1.0167 ng/ml |
| Bupropion | 4.773 | 188566 | 864.59 | 58.5 | 839.27 | 675602 | 9.7134 ng/ml |
| Carisoprodol | 5.705 | 28877 | 3110.16 | 57.1 | 79.38 | 144782 | 9.9575 ng/ml |
| Citalopram | 5.215 | 136401 | 623.16 | 39.9 | 132249.78 | 606762 | 10.0943 ng/ml |
| Clonazepam | 5.593 | 6419 | 121.46 | 33.4 | 164.60 | 8079 | 10.0276 ng/ml |
| Cocaine | 4.250 | 146790 | 83415.84 | 45.0 | 5486.35 | 1161936 | 10.0654 ng/ml |
| Codeine | 2.570 | 15930 | 425.32 | 97.5 | 1677.15 | 66911 | 10.2850 ng/ml |
| Cyclobenzaprine | 5.617 | 88463 | 181969.65 | 9.4 | 504.06 | 335929 | 9.9742 ng/ml |
| Dextromethorphan | 5.258 | 83481 | 211.36 | 79.8 | 6614.85 | 385872 | 9.9127 ng/ml |
| Dextropropoxyphene | 4.113 | 48581 | 2340.36 | 208.9 | 754.41 | 618530 | 10.0287 ng/ml |
| Diazepam | 5.934 | 26663 | 457.04 | 92.2 | 1151.95 | 131361 | 9.7271 ng/ml |
| Dihydrocodeine | 2.541 | 42987 | 1626.20 | 67.5 | 1256.73 | 231549 | 10.5383 ng/ml |
| Diphenhydramine | 5.286 | 316340 | 18831.99 | 33.9 | 649.25 | 2250243 | 10.2903 ng/ml |
| Doxylamine | 4.521 | 368576 | ∞ | 96.6 | 22468.89 | 1551832 | 9.2758 ng/ml |
| EDDP | 5.257 | 118129 | 9994.46 | 42.2 | 11308.56 | 636247 | 9.7680 ng/ml |
| Fentanyl | 5.079 | 9553 | 393.12 | 70.4 | 11812.05 | 528523 | 0.9486 ng/ml |
| Fluoxetine | 5.702 | 74334 | 4441.43 | 8.8 | 17295.94 | 319651 | 10.1717 ng/ml |
| Hydrocodone | 3.011 | 40697 | 148.14 | 41.8 | 295.21 | 262013 | 9.9869 ng/ml |
| Hydromorphone | 1.601 | 29961 | 384.94 | 79.3 | 393.87 | 114773 | 10.0959 ng/ml |
| Ketamine | 4.033 | 125143 | 4789.93 | 36.6 | 303.00 | 570843 | 10.1179 ng/ml |
| Lamotrigine | 4.261 | 10958 | 1537.95 | 84.7 | 1224.00 | 570843 | 10.2851 ng/ml |
| Lorazepam | 5.734 | 2128 | 28.72 | 63.1 | 7.40 | 8079 | 10.2316 ng/ml |
| Meprobamate | 4.888 | 7569 | 459.52 | 26.7 | 113.49 | 36827 | 9.7451 ng/ml |
| Methadone | 5.648 | 190139 | 473.71 | 55.8 | 672.20 | 901146 | 10.1079 ng/ml |
| Methamphetamine | 3.208 | 177844 | 1716.07 | 41.3 | 2742.08 | 667960 | 10.2218 ng/ml |
| Metoprolol | 4.319 | 33845 | 109014.47 | 95.7 | 2801.35 | 1538915 | 10.4863 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|---------|------------|---------------|
| Mirtazapine | 4.596 | 251888 | 35803.24 | 49.5 | 5696.69 | 729624 | 10.1156 ng/ml |
| Mitragynine | 5.207 | 39316 | 1790.74 | 38.6 | ∞ | 901146 | 10.5192 ng/ml |
| Morphine | 1.240 | 6608 | 3241.86 | 25.1 | ∞ | 6398 | 10.0392 ng/ml |
| Norbuprenorphine | 4.983 | 275 | 44.44 | 72.7 | 274.77 | 10709 | 1.1621 ng/ml |
| Nordiazepam | 5.881 | 5237 | ∞ | 55.1 | 227.99 | 16657 | 10.0978 ng/ml |
| Norfentanyl | 4.074 | 21268 | 1930.03 | 36.4 | 102.13 | 888171 | 0.9762 ng/ml |
| Norhydrocodone | 3.059 | 6996 | ∞ | 42.6 | 77.01 | 67123 | 9.3794 ng/ml |
| Noroxycodone | 2.903 | 25619 | 420.91 | 50.5 | 480.07 | 81953 | 9.8880 ng/ml |
| O-desmethyl-tramadol | 3.361 | 282172 | 33696.30 | 6.0 | 954.69 | 1527130 | 9.9215 ng/ml |
| Oxazepam | 5.738 | 2025 | 279.64 | 82.7 | 13.45 | 12400 | 9.9548 ng/ml |
| Oxycodone | 2.827 | 66210 | 2631.55 | 33.1 | ∞ | 301497 | 9.9678 ng/ml |
| Oxymorphone | 1.396 | 22334 | 448.43 | 48.3 | 211.79 | 82161 | 10.0131 ng/ml |
| Phentermine | 3.765 | 52924 | 988.92 | 2.8 | 123.22 | 579499 | 10.5839 ng/ml |
| Promethazine | 5.534 | 212775 | 3621.52 | 29.4 | 1288.72 | 973688 | 10.1591 ng/ml |
| Quetiapine | 5.517 | 172628 | 2613.12 | 60.9 | 3225.72 | 244229 | 10.2241 ng/ml |
| Sertraline | 5.770 | 24517 | 388.26 | 91.4 | 4956.35 | 106587 | 9.9388 ng/ml |
| Temazepam | 5.798 | 21038 | 417.79 | 29.3 | 102.66 | 112755 | 9.7655 ng/ml |
| Tramadol | 4.240 | 298817 | 3734.17 | 3.5 | 116.99 | 1538915 | 10.1792 ng/ml |
| Trazodone | 5.058 | 144154 | 27019.27 | 79.7 | 8652.95 | 621798 | 9.8703 ng/ml |
| Venlafaxine | 5.034 | 241983 | 967.34 | 36.1 | 339.17 | 1273551 | 10.1334 ng/ml |
| Zolpidem | 4.837 | 247725 | 1263.54 | 30.6 | 2242.14 | 1179691 | 10.0112 ng/ml |

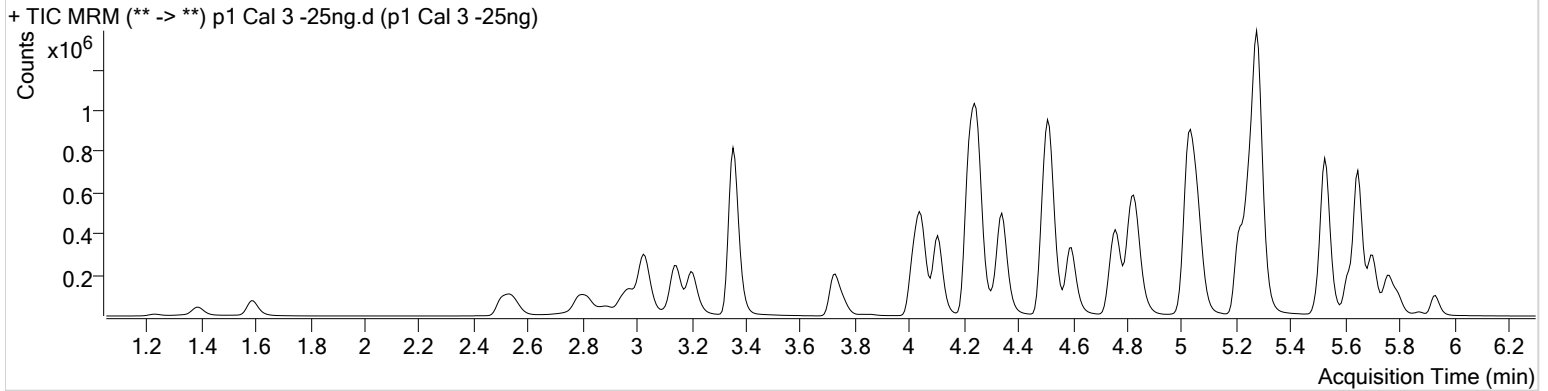
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco | Data File | p1 Cal 3 -25ng.d |
| Type | Cal | Sample | p1 Cal 3 -25ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-C5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:20:54 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|----------|-------|-----------|------------|---------------|
| 6-MAM | 3.123 | 4917 | 21502.65 | 74.5 | 6626.13 | 48153 | 2.3642 ng/ml |
| 7-aminoclonazepam | 4.237 | 50961 | 7286.46 | 77.8 | 3656.92 | 81738 | 27.5026 ng/ml |
| a-hydroxyalprazolam | 5.680 | 7912 | 259.17 | 63.1 | 7250.96 | 7026 | 24.2489 ng/ml |
| alpha-PVP | 4.350 | 385928 | 3530.67 | 51.0 | 1257.05 | 691855 | 24.5024 ng/ml |
| Alprazolam | 5.756 | 103944 | 1092.94 | 104.0 | 546.27 | 111412 | 24.8026 ng/ml |
| Amphetamine | 3.028 | 474712 | 1920.21 | 52.4 | 12283.45 | 233918 | 27.3263 ng/ml |
| Benzoylcegonine | 3.860 | 6730 | 1067.80 | 7.2 | 130.33 | 10725 | 25.6485 ng/ml |
| Buprenorphine | 5.679 | 11384 | 268.77 | 16.6 | 1899.82 | 170367 | 2.4250 ng/ml |
| Bupropion | 4.766 | 437548 | 58215.52 | 58.3 | 1291.82 | 632415 | 25.4689 ng/ml |
| Carisoprodol | 5.705 | 65474 | 11351.43 | 57.4 | 95.81 | 133602 | 24.5392 ng/ml |
| Citalopram | 5.215 | 304205 | 617.75 | 39.9 | ∞ | 555925 | 24.5729 ng/ml |
| Clonazepam | 5.593 | 13684 | 733.65 | 38.4 | 1695.77 | 7783 | 23.7100 ng/ml |
| Cocaine | 4.250 | 338107 | 28133.86 | 45.5 | 85435.67 | 1104442 | 23.9426 ng/ml |
| Codeine | 2.563 | 37362 | 17946.60 | 98.2 | 16193.76 | 63485 | 26.5501 ng/ml |
| Cyclobenzaprine | 5.617 | 167363 | 27008.38 | 9.6 | 1666.82 | 258649 | 24.6462 ng/ml |
| Dextromethorphan | 5.258 | 180212 | 306.96 | 79.2 | 22043.28 | 331172 | 24.9150 ng/ml |
| Dextrorphan | 4.106 | 115321 | 2732.22 | 209.5 | 3183.31 | 593326 | 24.7407 ng/ml |
| Diazepam | 5.934 | 58876 | 941.98 | 86.4 | 440.44 | 113020 | 25.2295 ng/ml |
| Dihydrocodeine | 2.541 | 100717 | 852.70 | 67.9 | 14389.74 | 225496 | 26.9909 ng/ml |
| Diphenhydramine | 5.286 | 700340 | 892.35 | 34.0 | 5530.32 | 2045027 | 23.9459 ng/ml |
| Doxylamine | 4.514 | 861233 | 66422.73 | 95.9 | 69260.95 | 1475253 | 25.9561 ng/ml |
| EDDP | 5.251 | 274791 | 1370.71 | 41.8 | 625203.76 | 598305 | 24.4183 ng/ml |
| Fentanyl | 5.072 | 19637 | 979.11 | 69.2 | ∞ | 421133 | 2.3742 ng/ml |
| Fluoxetine | 5.702 | 126743 | 15423.75 | 9.1 | 668.87 | 223234 | 24.5658 ng/ml |
| Hydrocodone | 3.005 | 94173 | 272.54 | 42.8 | ∞ | 251692 | 25.0627 ng/ml |
| Hydromorphone | 1.594 | 69753 | ∞ | 78.4 | 3137.13 | 112083 | 24.5713 ng/ml |
| Ketamine | 4.033 | 290981 | 8549.08 | 37.0 | 934.11 | 544087 | 25.8164 ng/ml |
| Lamotrigine | 4.261 | 25759 | 2795.05 | 79.6 | 5306.69 | 544087 | 27.8088 ng/ml |
| Lorazepam | 5.734 | 5016 | 209.27 | 55.9 | 30.31 | 7783 | 23.6858 ng/ml |
| Meprobamate | 4.881 | 18097 | 890.50 | 25.7 | 335.05 | 35119 | 24.0723 ng/ml |
| Methadone | 5.648 | 402512 | 39673.41 | 54.6 | 641.76 | 776900 | 24.7392 ng/ml |
| Methamphetamine | 3.202 | 401848 | 1197.85 | 42.4 | 1124.18 | 641829 | 26.6737 ng/ml |
| Metoprolol | 4.313 | 77520 | ∞ | 98.8 | ∞ | 1471931 | 26.9067 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|-----------|------------|---------------|
| Mirtazapine | 4.596 | 574088 | 41778.13 | 49.0 | 8341.76 | 691855 | 24.6052 ng/ml |
| Mitragynine | 5.207 | 80494 | 43542.20 | 38.5 | 195490.75 | 776900 | 25.4072 ng/ml |
| Morphine | 1.233 | 15608 | 10471.24 | 23.6 | 725.72 | 6188 | 25.6094 ng/ml |
| Norbuprenorphine | 4.983 | 466 | 489.54 | 92.2 | ∞ | 9186 | 2.4427 ng/ml |
| Nordiazepam | 5.881 | 11338 | 427.44 | 58.4 | 282.39 | 15155 | 24.3147 ng/ml |
| Norfentanyl | 4.074 | 49995 | 1603.94 | 37.4 | 560.82 | 847650 | 2.3646 ng/ml |
| Norhydrocodone | 3.053 | 17925 | 817.41 | 43.2 | ∞ | 68791 | 22.8449 ng/ml |
| Noroxycodone | 2.896 | 60598 | 1210.43 | 50.0 | 299.74 | 79350 | 24.9405 ng/ml |
| O-desmethyl-tramadol | 3.361 | 658661 | 2365.41 | 6.0 | 1073.03 | 1461463 | 24.4542 ng/ml |
| Oxazepam | 5.738 | 4861 | 96.68 | 68.1 | 55.87 | 11731 | 25.4094 ng/ml |
| Oxycodone | 2.821 | 156720 | 7137.10 | 32.7 | 2647.23 | 293473 | 24.9567 ng/ml |
| Oxymorphone | 1.390 | 53017 | 254.77 | 48.4 | 884.12 | 76873 | 26.2337 ng/ml |
| Phentermine | 3.758 | 116574 | 5171.55 | 2.8 | 256.28 | 552215 | 26.8194 ng/ml |
| Promethazine | 5.534 | 399580 | ∞ | 29.7 | 9443.38 | 731960 | 24.3997 ng/ml |
| Quetiapine | 5.517 | 387365 | 4152.74 | 60.2 | 4737.54 | 223642 | 26.3175 ng/ml |
| Sertraline | 5.770 | 42835 | 806.77 | 89.0 | 413.56 | 73141 | 25.0288 ng/ml |
| Temazepam | 5.798 | 48109 | 1620.95 | 29.4 | 91.53 | 102940 | 24.2804 ng/ml |
| Tramadol | 4.233 | 689132 | 51093.35 | 3.4 | 430.46 | 1471931 | 26.1446 ng/ml |
| Trazodone | 5.058 | 302196 | 3165.04 | 82.2 | 81633.88 | 537607 | 24.7542 ng/ml |
| Venlafaxine | 5.034 | 558309 | 6661.55 | 36.0 | 1965.57 | 1198308 | 24.3376 ng/ml |
| Zolpidem | 4.837 | 576461 | 40001.24 | 30.3 | 3196.65 | 1117849 | 25.3843 ng/ml |

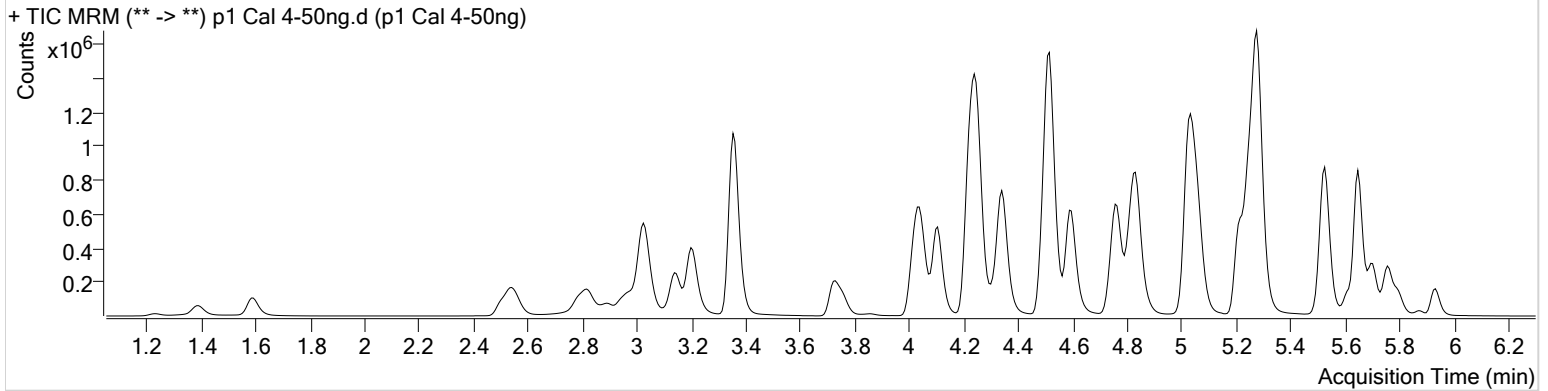
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|-----------------|
| Instrument | Falco | Data File | p1 Cal 4-50ng.d |
| Type | Cal | Sample | p1 Cal 4-50ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-D5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:31:30 AM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|----------|-------|-----------|------------|---------------|
| 6-MAM | 3.123 | 10257 | ∞ | 70.2 | 6491.14 | 47928 | 4.9962 ng/ml |
| 7-aminoclonazepam | 4.237 | 83038 | 2045.07 | 81.8 | 236.92 | 70703 | 52.7789 ng/ml |
| a-hydroxyalprazolam | 5.680 | 16761 | 258.85 | 64.3 | 697.13 | 7538 | 48.2478 ng/ml |
| alpha-PVP | 4.350 | 775934 | 1867.34 | 51.4 | 1282.18 | 688879 | 49.1728 ng/ml |
| Alprazolam | 5.756 | 225429 | 1762.29 | 101.7 | ∞ | 118529 | 50.4753 ng/ml |
| Amphetamine | 3.028 | 911107 | 6473.53 | 51.8 | 19122.36 | 233385 | 54.1853 ng/ml |
| Benzoylcegonine | 3.860 | 15090 | 1102.15 | 7.3 | 326.09 | 12148 | 50.9724 ng/ml |
| Buprenorphine | 5.679 | 19820 | 237.14 | 18.1 | ∞ | 152552 | 4.6662 ng/ml |
| Bupropion | 4.766 | 876665 | 7971.01 | 59.0 | 17496.51 | 627553 | 52.3830 ng/ml |
| Carisoprodol | 5.705 | 139370 | 13410.61 | 57.5 | 781.80 | 140890 | 49.5835 ng/ml |
| Citalopram | 5.215 | 551367 | 2731.57 | 39.6 | 2551.25 | 490659 | 50.4637 ng/ml |
| Clonazepam | 5.593 | 24793 | 347.20 | 34.8 | 11766.35 | 6904 | 49.7400 ng/ml |
| Cocaine | 4.250 | 678266 | 89028.08 | 45.1 | 40001.40 | 1066476 | 49.4010 ng/ml |
| Codeine | 2.563 | 71989 | 759.21 | 98.7 | 1649.57 | 62264 | 52.8971 ng/ml |
| Cyclobenzaprine | 5.617 | 167029 | 16402.63 | 9.3 | 12148.56 | 126551 | 50.3703 ng/ml |
| Dextromethorphan | 5.258 | 318061 | 394.71 | 78.3 | 17322.92 | 288523 | 50.4608 ng/ml |
| Dextrorphan | 4.106 | 228360 | 4838.50 | 211.4 | 40537.85 | 582006 | 49.8916 ng/ml |
| Diazepam | 5.934 | 129441 | 2713.28 | 88.2 | 756.74 | 123375 | 50.9841 ng/ml |
| Dihydrocodeine | 2.541 | 197262 | 2000.75 | 68.7 | 59153.14 | 224256 | 54.2848 ng/ml |
| Diphenhydramine | 5.286 | 1261029 | 19247.40 | 34.2 | 594.81 | 1818541 | 47.6863 ng/ml |
| Doxylamine | 4.514 | 1742344 | 16779.15 | 96.6 | 227620.66 | 1473176 | 54.8065 ng/ml |
| EDDP | 5.251 | 548501 | 738.47 | 41.7 | 32811.19 | 578528 | 50.5909 ng/ml |
| Fentanyl | 5.072 | 30203 | 6558.34 | 71.8 | 53863.25 | 327523 | 4.6503 ng/ml |
| Fluoxetine | 5.702 | 119578 | 4810.33 | 9.0 | 985.69 | 105689 | 48.7696 ng/ml |
| Hydrocodone | 3.005 | 193248 | 920.07 | 42.5 | ∞ | 251403 | 52.2412 ng/ml |
| Hydromorphone | 1.594 | 131780 | 1172.94 | 78.2 | 1993.52 | 100068 | 52.3996 ng/ml |
| Ketamine | 4.033 | 585276 | 3456.91 | 37.0 | 641.02 | 549113 | 52.2333 ng/ml |
| Lamotrigine | 4.261 | 47769 | 2718.59 | 80.0 | 2369.50 | 549113 | 52.4952 ng/ml |
| Lorazepam | 5.728 | 10044 | 131.21 | 62.1 | 191.07 | 6904 | 52.3001 ng/ml |
| Meprobamate | 4.881 | 36079 | 8698.32 | 26.0 | 387.73 | 35228 | 47.6079 ng/ml |
| Methadone | 5.648 | 707602 | 2252.96 | 55.1 | 38208.03 | 675197 | 49.9849 ng/ml |
| Methamphetamine | 3.202 | 792272 | 8165.01 | 42.4 | 4744.04 | 644493 | 54.2511 ng/ml |
| Metoprolol | 4.313 | 152208 | 5594.47 | 97.6 | ∞ | 1473010 | 54.0302 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|----------|-------|-----------|------------|---------------|
| Mirtazapine | 4.596 | 1079513 | 16115.57 | 49.4 | 24672.66 | 688879 | 46.6520 ng/ml |
| Mitragynine | 5.207 | 133670 | 96480.24 | 38.2 | 136299.94 | 675197 | 48.8297 ng/ml |
| Morphine | 1.233 | 27167 | 3173.99 | 23.2 | 718.19 | 5234 | 53.5067 ng/ml |
| Norbuprenorphine | 4.983 | 874 | 132.15 | 77.5 | 65.99 | 8919 | 4.8586 ng/ml |
| Nordiazepam | 5.874 | 25742 | 1181.37 | 57.3 | ∞ | 16670 | 50.4131 ng/ml |
| Norfentanyl | 4.068 | 101060 | 12533.50 | 37.7 | 1595.01 | 843070 | 4.7776 ng/ml |
| Norhydrocodone | 3.053 | 39393 | 307.15 | 40.6 | 1022.54 | 70740 | 48.3617 ng/ml |
| Noroxycodone | 2.896 | 122020 | 3757.54 | 49.5 | 823.38 | 78315 | 51.4506 ng/ml |
| O-desmethyl-tramadol | 3.361 | 1330424 | 75899.92 | 6.1 | 1443.93 | 1450692 | 49.9444 ng/ml |
| Oxazepam | 5.738 | 10330 | 240.64 | 67.6 | 983.03 | 12480 | 50.8558 ng/ml |
| Oxycodone | 2.821 | 328363 | 2075.47 | 32.8 | 2056.17 | 298104 | 52.0102 ng/ml |
| Oxymorphone | 1.390 | 98670 | 847.61 | 50.4 | ∞ | 75928 | 49.9088 ng/ml |
| Phentermine | 3.758 | 233736 | 5047.30 | 2.8 | 284.38 | 542825 | 56.5714 ng/ml |
| Promethazine | 5.534 | 486981 | 70157.37 | 30.5 | 1540.25 | 449071 | 47.8246 ng/ml |
| Quetiapine | 5.517 | 682064 | 32087.71 | 60.2 | 14309.89 | 200277 | 52.5870 ng/ml |
| Sertraline | 5.770 | 41579 | 285.69 | 88.8 | 2582.59 | 35807 | 49.4497 ng/ml |
| Temazepam | 5.798 | 104661 | 331.13 | 28.4 | 168.89 | 108071 | 50.1859 ng/ml |
| Tramadol | 4.233 | 1364280 | 79963.09 | 3.4 | 461.34 | 1473010 | 52.8306 ng/ml |
| Trazodone | 5.058 | 504136 | 2584.15 | 79.8 | 9196.33 | 432400 | 51.9638 ng/ml |
| Venlafaxine | 5.034 | 1133411 | 1446.83 | 35.9 | 15481.48 | 1197423 | 49.0812 ng/ml |
| Zolpidem | 4.837 | 1175581 | 35622.22 | 30.5 | 87100.72 | 1122597 | 52.1134 ng/ml |

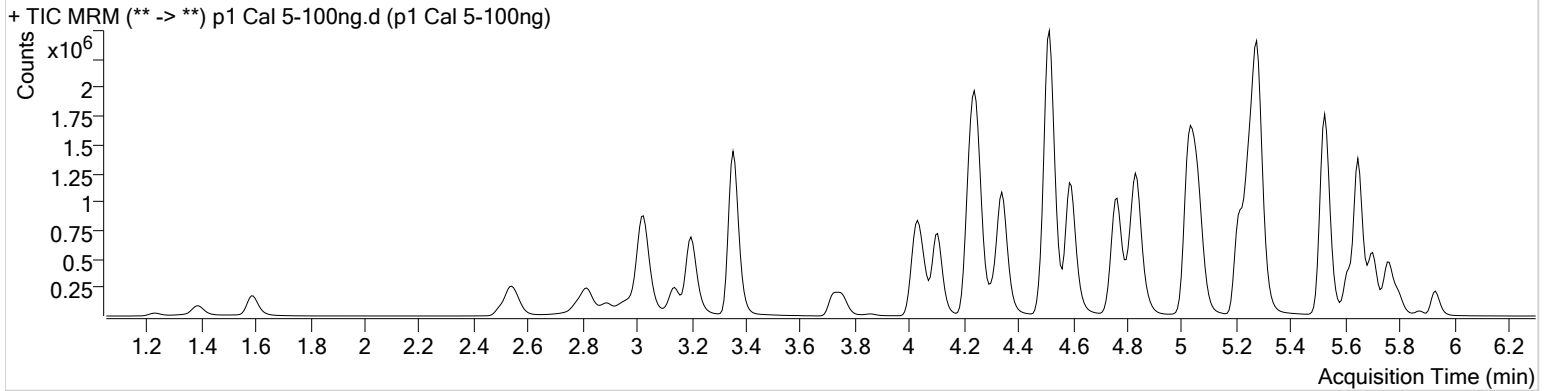
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco | Data File | p1 Cal 5-100ng.d |
| Type | Cal | Sample | p1 Cal 5-100ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-E5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:42:06 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| 6-MAM | 3.123 | 18442 | 2662.21 | 72.5 | 5419.74 | 44884 | 9.6262 ng/ml |
| 7-aminoclonazepam | 4.237 | 150147 | 6422.92 | 79.8 | 4819.07 | 69091 | 98.5947 ng/ml |
| a-hydroxyalprazolam | 5.680 | 27848 | 194.20 | 64.8 | 359.37 | 6728 | 90.1426 ng/ml |
| alpha-PVP | 4.344 | 1385160 | 54690.69 | 51.2 | 21472.18 | 626826 | 96.1843 ng/ml |
| Alprazolam | 5.756 | 365065 | 2561.96 | 101.9 | 1650.14 | 99577 | 97.2224 ng/ml |
| Amphetamine | 3.028 | 1523112 | 45109.53 | 52.5 | 63694.66 | 215570 | 99.4877 ng/ml |
| Benzoylcegonine | 3.853 | 24305 | 3954.97 | 8.4 | 360.99 | 10249 | 97.4885 ng/ml |
| Buprenorphine | 5.679 | 39063 | ∞ | 16.3 | 1511.81 | 148938 | 9.3673 ng/ml |
| Bupropion | 4.766 | 1570242 | 1770.72 | 59.1 | ∞ | 580859 | 102.2478 ng/ml |
| Carisoprodol | 5.705 | 229650 | ∞ | 55.9 | 1496.47 | 117531 | 97.9887 ng/ml |
| Citalopram | 5.215 | 1058938 | 2099.97 | 39.9 | 14849.38 | 489508 | 97.1478 ng/ml |
| Clonazepam | 5.593 | 52023 | 2351.98 | 34.7 | 10748.67 | 7061 | 103.3591 ng/ml |
| Cocaine | 4.250 | 1194859 | 71728.39 | 44.6 | 111283.45 | 951425 | 97.2433 ng/ml |
| Codeine | 2.563 | 123049 | 1840.24 | 99.1 | 932.70 | 55847 | 101.4964 ng/ml |
| Cyclobenzaprine | 5.617 | 563530 | 39700.81 | 9.7 | 5367.61 | 220949 | 97.4240 ng/ml |
| Dextromethorphan | 5.258 | 618444 | 3521.64 | 78.5 | 1442.63 | 287398 | 98.4899 ng/ml |
| Dextrorphan | 4.106 | 409628 | 2087.50 | 210.6 | 2086.73 | 534782 | 97.3481 ng/ml |
| Diazepam | 5.934 | 209712 | 1723.07 | 86.8 | 1040.27 | 101695 | 100.3735 ng/ml |
| Dihydrocodeine | 2.534 | 344132 | 57678.30 | 68.0 | 2620.94 | 207380 | 103.4409 ng/ml |
| Diphenhydramine | 5.286 | 2430857 | 579.08 | 34.0 | 1402.49 | 1765531 | 93.9141 ng/ml |
| Doxylamine | 4.514 | 3141689 | 148865.00 | 95.8 | 35556.18 | 1361083 | 109.0229 ng/ml |
| EDDP | 5.251 | 1014524 | 1118.09 | 41.6 | 10399.73 | 555686 | 97.5811 ng/ml |
| Fentanyl | 5.072 | 68095 | 2881.72 | 71.2 | 97093.65 | 363296 | 9.4044 ng/ml |
| Fluoxetine | 5.702 | 404371 | 802.18 | 8.9 | 191.28 | 181002 | 96.1182 ng/ml |
| Hydrocodone | 3.005 | 351002 | ∞ | 41.5 | ∞ | 233555 | 102.8201 ng/ml |
| Hydromorphone | 1.594 | 255979 | 1128.79 | 78.7 | 1597.42 | 102762 | 99.4401 ng/ml |
| Ketamine | 4.026 | 1030183 | 1478.54 | 37.6 | 1525.51 | 505481 | 100.5935 ng/ml |
| Lamotrigine | 4.261 | 83828 | 4674.22 | 79.7 | 5547.65 | 505481 | 101.5842 ng/ml |
| Lorazepam | 5.728 | 17666 | 223.57 | 57.8 | 449.86 | 7061 | 89.2680 ng/ml |
| Meprobamate | 4.881 | 63950 | 2513.15 | 25.9 | 3473.61 | 32068 | 92.4747 ng/ml |
| Methadone | 5.648 | 1427835 | 2773.50 | 55.0 | 32076.14 | 702576 | 96.8793 ng/ml |
| Methamphetamine | 3.202 | 1408635 | 25802.07 | 42.0 | 2683.16 | 600424 | 105.3086 ng/ml |
| Metoprolol | 4.313 | 261118 | 26641.69 | 96.4 | ∞ | 1306717 | 105.6890 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine | 4.589 | 2052017 | 38765.75 | 49.3 | 17116.84 | 626826 | 97.6847 ng/ml |
| Mitragynine | 5.207 | 282722 | ∞ | 38.9 | ∞ | 702576 | 99.5741 ng/ml |
| Morphine | 1.233 | 54091 | ∞ | 23.7 | 1061.23 | 5664 | 99.0770 ng/ml |
| Norbuprenorphine | 4.983 | 1649 | 342.85 | 89.8 | 561.14 | 8556 | 9.7016 ng/ml |
| Nordiazepam | 5.881 | 42732 | 1663.85 | 56.2 | ∞ | 13738 | 101.7570 ng/ml |
| Norfentanyl | 4.068 | 178304 | 37834.66 | 37.7 | 2534.93 | 758774 | 9.3397 ng/ml |
| Norhydrocodone | 3.046 | 71229 | 520.89 | 42.5 | 179.22 | 64320 | 95.7724 ng/ml |
| Noroxycodone | 2.889 | 213291 | 1522.93 | 50.0 | 1088.17 | 70268 | 100.7520 ng/ml |
| O-desmethyl-tramadol | 3.354 | 2378039 | 3557.57 | 6.0 | 9697.32 | 1326133 | 97.8258 ng/ml |
| Oxazepam | 5.738 | 16611 | 91.18 | 73.1 | 55.72 | 10325 | 98.9472 ng/ml |
| Oxycodone | 2.814 | 576721 | 3056.64 | 32.7 | 2018.38 | 272377 | 100.4386 ng/ml |
| Oxymorphone | 1.390 | 174383 | 2128.57 | 49.2 | 416.34 | 70084 | 96.0535 ng/ml |
| Phentermine | 3.758 | 380017 | 7542.69 | 2.8 | 504.33 | 504196 | 100.3698 ng/ml |
| Promethazine | 5.534 | 1358108 | 88685.47 | 30.1 | 37181.49 | 629168 | 94.5495 ng/ml |
| Quetiapine | 5.517 | 1337718 | 83449.34 | 60.5 | 62954.20 | 198325 | 105.0066 ng/ml |
| Sertraline | 5.770 | 131082 | 2610.58 | 88.7 | 1267.56 | 56324 | 98.9288 ng/ml |
| Temazepam | 5.798 | 173970 | 1051.19 | 29.1 | 509.08 | 89677 | 100.4109 ng/ml |
| Tramadol | 4.233 | 2387223 | 180736.16 | 3.3 | 1317.78 | 1306717 | 105.3107 ng/ml |
| Trazodone | 5.058 | 1069364 | 70291.69 | 80.1 | 58856.96 | 476243 | 100.6119 ng/ml |
| Venlafaxine | 5.034 | 1994051 | 63849.30 | 36.0 | 916.66 | 1086820 | 94.8081 ng/ml |
| Zolpidem | 4.837 | 2089829 | 41348.53 | 30.2 | 1319.57 | 1026707 | 101.8125 ng/ml |

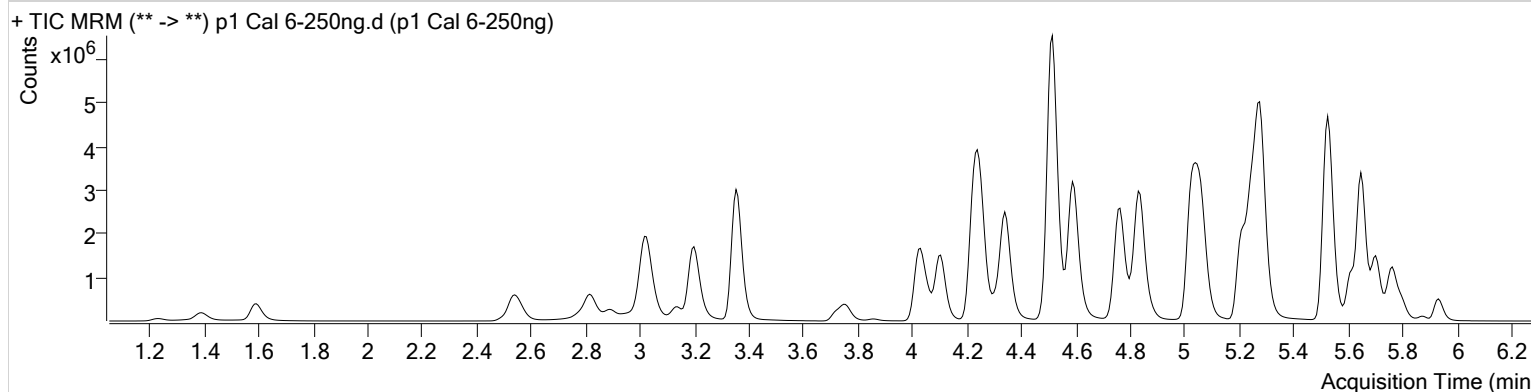
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco | Data File | p1 Cal 6-250ng.d |
| Type | Cal | Sample | p1 Cal 6-250ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-F5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 1:52:41 AM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| 6-MAM | 3.116 | 50828 | 17897.00 | 71.6 | 10083.18 | 46587 | 25.6231 ng/ml |
| 7-aminoclonazepam | 4.231 | 303505 | 2771.45 | 79.0 | 3197.98 | 64336 | 215.3128 ng/ml |
| a-hydroxyalprazolam | 5.680 | 75900 | 474.66 | 63.1 | 372.81 | 6345 | 261.2283 ng/ml |
| alpha-PVP | 4.344 | 3753513 | 251592.00 | 50.8 | ∞ | 661367 | 246.5612 ng/ml |
| Alprazolam | 5.756 | 951498 | 2235.61 | 101.0 | 58792.47 | 100274 | 251.5060 ng/ml |
| Amphetamine | 3.028 | 3454228 | 15246.49 | 52.6 | 97814.82 | 234252 | 209.5359 ng/ml |
| Benzoylcegonine | 3.853 | 70380 | 15478.59 | 7.8 | 4073.26 | 11575 | 250.2820 ng/ml |
| Buprenorphine | 5.679 | 106900 | 1762.54 | 16.0 | 1660.16 | 148782 | 25.5718 ng/ml |
| Bupropion | 4.766 | 4381024 | 796601.82 | 58.2 | 111520.90 | 641009 | 259.9426 ng/ml |
| Carisoprodol | 5.712 | 541400 | 1368.62 | 56.2 | 5085.49 | 107754 | 252.0485 ng/ml |
| Citalopram | 5.215 | 2746996 | 20709.98 | 39.8 | ∞ | 499937 | 246.7558 ng/ml |
| Clonazepam | 5.593 | 141611 | 2753.45 | 35.0 | 21481.88 | 7603 | 263.2109 ng/ml |
| Cocaine | 4.250 | 2983426 | 278868.91 | 44.3 | 124994.18 | 922955 | 249.7992 ng/ml |
| Codeine | 2.563 | 298222 | 6401.22 | 99.4 | 1193.55 | 55397 | 249.0879 ng/ml |
| Cyclobenzaprine | 5.617 | 1946127 | 70508.63 | 9.7 | 522.88 | 298505 | 249.1824 ng/ml |
| Dextromethorphan | 5.252 | 1654520 | 71251.58 | 78.6 | 1220.38 | 305262 | 248.0520 ng/ml |
| Dextrorphan | 4.106 | 1081168 | 3126.12 | 210.6 | 3225.66 | 551287 | 249.1657 ng/ml |
| Diazepam | 5.934 | 571804 | 2463.19 | 88.3 | 1103.22 | 110880 | 251.2636 ng/ml |
| Dihydrocodeine | 2.534 | 868947 | 7477.65 | 68.2 | 3659.97 | 229807 | 237.1911 ng/ml |
| Diphenhydramine | 5.279 | 6508882 | 4465.92 | 33.4 | 554.37 | 1805063 | 244.6935 ng/ml |
| Doxylamine | 4.514 | 8929447 | 25926.90 | 95.8 | ∞ | 1510739 | 282.5526 ng/ml |
| EDDP | 5.251 | 2832763 | 1833.47 | 42.1 | 23266.21 | 612727 | 247.3672 ng/ml |
| Fentanyl | 5.072 | 234616 | 501.77 | 73.0 | 35068.77 | 465459 | 25.2121 ng/ml |
| Fluoxetine | 5.702 | 1644313 | 1551.73 | 8.8 | 483.83 | 288035 | 245.3220 ng/ml |
| Hydrocodone | 2.998 | 924169 | 763.77 | 43.3 | 1770.99 | 252133 | 251.7991 ng/ml |
| Hydromorphone | 1.594 | 654870 | 1435.59 | 78.7 | ∞ | 103811 | 252.3810 ng/ml |
| Ketamine | 4.026 | 2735407 | 95689.15 | 37.1 | 2031.40 | 535015 | 253.5453 ng/ml |
| Lamotrigine | 4.261 | 180290 | ∞ | 80.0 | 19377.90 | 535015 | 208.1372 ng/ml |
| Lorazepam | 5.734 | 50697 | 920.05 | 58.0 | 110.74 | 7603 | 236.3670 ng/ml |
| Meprobamate | 4.881 | 170628 | 22752.11 | 26.7 | 1229.49 | 32178 | 245.4998 ng/ml |
| Methadone | 5.648 | 4333304 | 2241.48 | 55.4 | 2293.29 | 833190 | 247.8395 ng/ml |
| Methamphetamine | 3.202 | 3670058 | 17777.70 | 42.0 | 6835.17 | 693233 | 240.0901 ng/ml |
| Metoprolol | 4.313 | 608094 | 14843.87 | 97.5 | 74685.25 | 1374334 | 235.5831 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|------------|------------|----------------|
| Mirtazapine | 4.589 | 5726473 | 25920.10 | 48.9 | 823534.32 | 661367 | 258.7090 ng/ml |
| Mitragynine | 5.200 | 835285 | 91876.33 | 39.2 | 1328895.86 | 833190 | 248.5310 ng/ml |
| Morphine | 1.233 | 132727 | ∞ | 24.0 | 1555.63 | 5627 | 245.8184 ng/ml |
| Norbuprenorphine | 4.983 | 5140 | 521.55 | 81.3 | 5595.40 | 9994 | 26.1493 ng/ml |
| Nordiazepam | 5.874 | 121122 | 5754.71 | 56.6 | 744.94 | 15709 | 252.5579 ng/ml |
| Norfentanyl | 4.068 | 478515 | 29162.33 | 37.7 | 5053.25 | 758940 | 25.0135 ng/ml |
| Norhydrocodone | 3.046 | 190852 | 1201.72 | 39.7 | 311.04 | 65450 | 251.5255 ng/ml |
| Noroxycodone | 2.889 | 534347 | 3222.94 | 50.2 | ∞ | 70796 | 251.3349 ng/ml |
| O-desmethyl-tramadol | 3.354 | 6455062 | ∞ | 5.9 | 2119.99 | 1382069 | 255.0794 ng/ml |
| Oxazepam | 5.738 | 50237 | 1696.41 | 71.0 | 60.46 | 12845 | 240.6913 ng/ml |
| Oxycodone | 2.814 | 1601604 | 6328.42 | 32.5 | 5323.81 | 301595 | 252.6607 ng/ml |
| Oxymorphone | 1.390 | 458176 | ∞ | 49.2 | ∞ | 67298 | 263.7553 ng/ml |
| Phentermine | 3.758 | 958236 | 7382.97 | 2.7 | 872.68 | 540971 | 238.3082 ng/ml |
| Promethazine | 5.534 | 4855618 | 10641.44 | 29.5 | 4330.32 | 855095 | 247.6608 ng/ml |
| Quetiapine | 5.517 | 3425631 | 28954.72 | 60.4 | 2798.81 | 224834 | 238.2929 ng/ml |
| Sertraline | 5.770 | 507989 | 2548.75 | 89.1 | 3898.48 | 86173 | 250.3139 ng/ml |
| Temazepam | 5.798 | 498980 | 2085.24 | 28.6 | ∞ | 101904 | 253.2578 ng/ml |
| Tramadol | 4.226 | 6047697 | 3876.28 | 3.3 | 1025.16 | 1374334 | 255.2623 ng/ml |
| Trazodone | 5.058 | 3192171 | 949894.56 | 79.2 | 155154.93 | 573152 | 250.4114 ng/ml |
| Venlafaxine | 5.027 | 5386573 | 306404.44 | 35.2 | 8537.35 | 1123111 | 247.2642 ng/ml |
| Zolpidem | 4.837 | 5737879 | 35413.13 | 29.6 | 1844.71 | 1131634 | 254.4379 ng/ml |

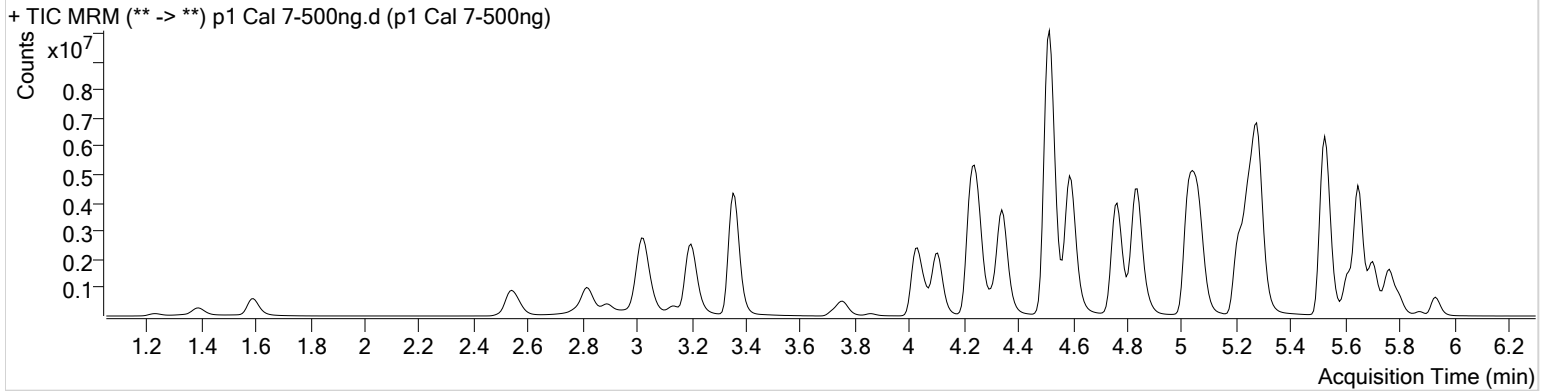
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|------------------|
| Instrument | Falco | Data File | p1 Cal 7-500ng.d |
| Type | Cal | Sample | p1 Cal 7-500ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-G5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 2:03:16 AM | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|----------|-----------|-------|-----------|------------|----------------|
| 6-MAM | 3.123 | 88569 | 202400.13 | 70.0 | 10767.08 | 40977 | 50.7977 ng/ml |
| 7-aminoclonazepam | 4.231 | 377207 | ∞ | 80.3 | ∞ | 48506 | 355.6443 ng/ml |
| a-hydroxyalprazolam | 5.680 | 122378 | 607.72 | 63.1 | 1177.30 | 5211 | 513.2249 ng/ml |
| alpha-PVP | 4.344 | 6129799 | 259498.93 | 50.8 | 105362.14 | 533881 | 498.5006 ng/ml |
| Alprazolam | 5.756 | 1380288 | ∞ | 100.2 | 4085.85 | 73097 | 500.4121 ng/ml |
| Amphetamine | 3.028 | 4966027 | 39101.65 | 52.4 | 304795.69 | 202703 | 349.2878 ng/ml |
| Benzoylcegonine | 3.860 | 130448 | 3645.08 | 7.8 | 2378.97 | 10895 | 493.0218 ng/ml |
| Buprenorphine | 5.679 | 155011 | 2060.43 | 16.4 | 4478.26 | 110565 | 49.8486 ng/ml |
| Bupropion | 4.766 | 7075349 | 407449.28 | 58.0 | 2241.71 | 528044 | 510.5198 ng/ml |
| Carisoprodol | 5.712 | 817044 | 501.20 | 54.7 | 1865.32 | 81292 | 504.2417 ng/ml |
| Citalopram | 5.215 | 4083710 | 5443.91 | 39.3 | 1171.22 | 368479 | 497.7010 ng/ml |
| Clonazepam | 5.593 | 233645 | 8620.62 | 33.8 | 2446.17 | 6602 | 501.3003 ng/ml |
| Cocaine | 4.250 | 4580756 | 422739.95 | 44.3 | 59675.00 | 715131 | 494.6939 ng/ml |
| Codeine | 2.563 | 469879 | 3829.99 | 99.0 | 4186.45 | 45700 | 476.4336 ng/ml |
| Cyclobenzaprine | 5.617 | 2747976 | 2215.31 | 9.7 | 43050.22 | 207620 | 505.9705 ng/ml |
| Dextromethorphan | 5.258 | 2248736 | 69929.07 | 79.4 | 675.63 | 206982 | 497.2085 ng/ml |
| Dextrorphan | 4.106 | 1758208 | 63818.17 | 211.6 | 206830.73 | 447206 | 499.4474 ng/ml |
| Diazepam | 5.934 | 806776 | 2171.40 | 88.6 | 6656.76 | 79766 | 492.9640 ng/ml |
| Dihydrocodeine | 2.534 | 1378087 | 67345.81 | 68.5 | 4033.91 | 204261 | 424.1272 ng/ml |
| Diphenhydramine | 5.286 | 9762357 | 618201.96 | 33.2 | 2870.25 | 1316123 | 502.5202 ng/ml |
| Doxylamine | 4.514 | 14649154 | 504385.10 | 95.8 | 513823.48 | 1308621 | 537.0700 ng/ml |
| EDDP | 5.251 | 4952842 | 4269.44 | 41.2 | 1741.52 | 522384 | 507.4810 ng/ml |
| Fentanyl | 5.072 | 343613 | 2450.61 | 74.7 | 284206.63 | 331234 | 51.8393 ng/ml |
| Fluoxetine | 5.702 | 2125841 | 7799.49 | 9.0 | 12990.28 | 185096 | 493.3624 ng/ml |
| Hydrocodone | 3.005 | 1592591 | ∞ | 41.0 | 1365.49 | 219964 | 498.0714 ng/ml |
| Hydromorphone | 1.594 | 1086646 | 3101.89 | 78.6 | 813.11 | 89322 | 487.0566 ng/ml |
| Ketamine | 4.026 | 4474171 | 652751.03 | 36.9 | 1631.48 | 450648 | 493.0918 ng/ml |
| Lamotrigine | 4.268 | 236194 | 19968.71 | 79.6 | ∞ | 450648 | 324.6503 ng/ml |
| Lorazepam | 5.734 | 94490 | 2795.85 | 57.2 | 1199.93 | 6602 | 506.3302 ng/ml |
| Meprobamate | 4.881 | 293715 | 2333.70 | 26.4 | 1289.47 | 26101 | 520.7078 ng/ml |
| Methadone | 5.648 | 6458328 | 2726.78 | 54.6 | 4007.94 | 609209 | 505.1255 ng/ml |
| Methamphetamine | 3.202 | 5807245 | 4742.14 | 41.6 | 3619.34 | 624998 | 422.8509 ng/ml |
| Metoprolol | 4.313 | 894517 | 49184.18 | 96.7 | 27508.46 | 1132629 | 421.5112 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|----------|------------|-------|-----------|------------|----------------|
| Mirtazapine | 4.589 | 9173894 | ∞ | 48.7 | 20521.72 | 533881 | 513.6285 ng/ml |
| Mitragynine | 5.200 | 1242067 | 72575.15 | 39.0 | 2051.58 | 609209 | 505.7588 ng/ml |
| Morphine | 1.233 | 207316 | ∞ | 24.0 | 1490.75 | 4454 | 485.8252 ng/ml |
| Norbuprenorphine | 4.983 | 8330 | ∞ | 85.4 | 410.71 | 8561 | 49.6059 ng/ml |
| Nordiazepam | 5.874 | 182214 | 2199.76 | 56.5 | 1432.68 | 11988 | 498.0667 ng/ml |
| Norfentanyl | 4.068 | 788149 | 22273.09 | 37.7 | 1676.18 | 605561 | 51.6051 ng/ml |
| Norhydrocodone | 3.053 | 312529 | 404.89 | 41.8 | 959.16 | 51103 | 527.0826 ng/ml |
| Noroxycodone | 2.889 | 874781 | 2864.83 | 50.3 | 583.53 | 58835 | 495.6342 ng/ml |
| O-desmethyl-tramadol | 3.354 | 10608909 | 354033.09 | 5.8 | 23190.23 | 1138618 | 509.0345 ng/ml |
| Oxazepam | 5.738 | 93417 | 952.35 | 69.0 | 523.72 | 11272 | 510.1502 ng/ml |
| Oxycodone | 2.814 | 2783656 | 7140.84 | 32.7 | 4993.03 | 269838 | 491.2883 ng/ml |
| Oxymorphone | 1.390 | 744934 | ∞ | 47.5 | ∞ | 58595 | 492.9992 ng/ml |
| Phentermine | 3.758 | 1455458 | 15892.80 | 2.6 | 2471.23 | 470540 | 417.4845 ng/ml |
| Promethazine | 5.534 | 6871541 | 6591.43 | 29.0 | 28294.13 | 595755 | 502.3786 ng/ml |
| Quetiapine | 5.517 | 5099085 | 68029.17 | 60.8 | 2661.20 | 178044 | 448.6842 ng/ml |
| Sertraline | 5.770 | 633003 | 4542.70 | 89.4 | 9591.30 | 53296 | 504.1412 ng/ml |
| Temazepam | 5.798 | 803720 | 3093.11 | 29.0 | 1447.40 | 83038 | 500.4922 ng/ml |
| Tramadol | 4.226 | 9385129 | ∞ | 3.3 | 2153.05 | 1132629 | 481.6654 ng/ml |
| Trazodone | 5.058 | 4713868 | 166767.85 | 79.3 | 296230.53 | 424909 | 499.3641 ng/ml |
| Venlafaxine | 5.027 | 8717355 | 1973865.66 | 34.6 | 28115.67 | 898032 | 500.0943 ng/ml |
| Zolpidem | 4.837 | 9439869 | 252684.66 | 29.0 | 134109.47 | 956095 | 495.9719 ng/ml |

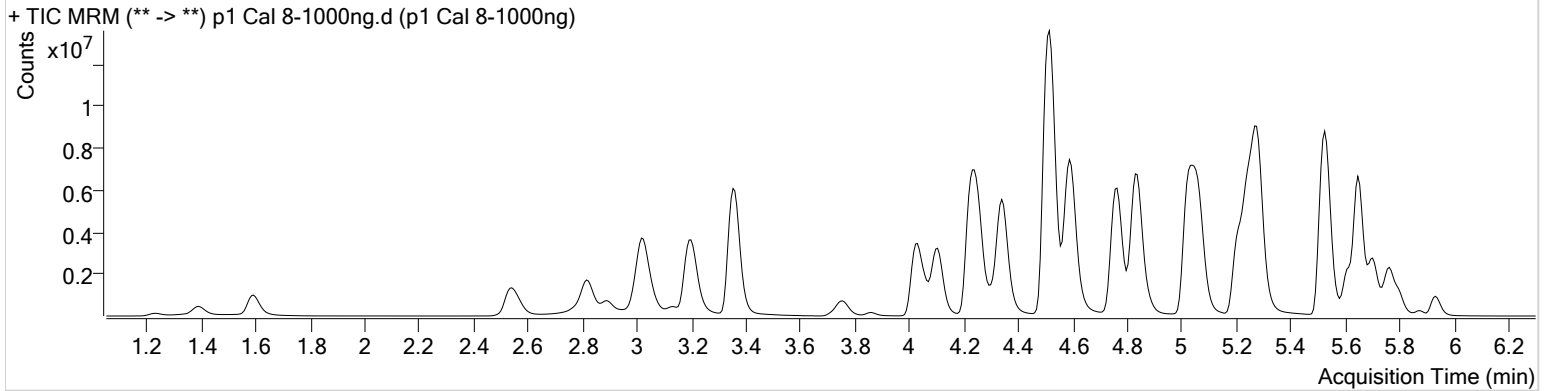
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ P1 CS.batch.bin
Calibration Last Update 2/21/2020 11:35:56 AM

| | | | |
|-------------------------|----------------------|------------------|-------------------|
| Instrument | Falco | Data File | p1 Cal 8-1000ng.d |
| Type | Cal | Sample | p1 Cal 8-1000ng |
| Acq. Method | MDQ P1 01112020.m | Operator | Celena Shrum |
| Sample Position | P1-H5 | Comment | |
| Injection Volume | 2 | | |
| Acq. Date-Time | 2/20/2020 2:13:50 AM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|----------|-----------|-------|-----------|------------|-----------------|
| 6-MAM | 3.123 | 157618 | 7956.34 | 71.3 | 20435.92 | 35301 | 104.9762 ng/ml |
| 7-aminoclonazepam | 4.231 | 381444 | ∞ | 81.5 | 3073.78 | 33592 | 519.8195 ng/ml |
| a-hydroxyalprazolam | 5.680 | 205289 | 537.90 | 64.4 | 2204.53 | 4056 | 1106.4539 ng/ml |
| alpha-PVP | 4.344 | 9847458 | 362579.10 | 50.7 | 2460.66 | 423368 | 1009.5757 ng/ml |
| Alprazolam | 5.756 | 2017677 | 2706.55 | 102.2 | 18232.63 | 53436 | 1000.5443 ng/ml |
| Amphetamine | 3.028 | 6812882 | 46101.73 | 51.3 | 66305.97 | 180906 | 537.8645 ng/ml |
| Benzoylcegonine | 3.860 | 270298 | 26113.93 | 7.8 | 3826.06 | 11087 | 1004.1173 ng/ml |
| Buprenorphine | 5.679 | 232119 | 8386.28 | 16.3 | ∞ | 73845 | 111.6988 ng/ml |
| Bupropion | 4.766 | 11462540 | 11819.85 | 58.5 | 4121.59 | 448230 | 975.2057 ng/ml |
| Carisoprodol | 5.712 | 1158025 | 1265.24 | 54.8 | 2433.74 | 56563 | 1027.1843 ng/ml |
| Citalopram | 5.209 | 5805216 | 2643.72 | 38.8 | 1283.23 | 258612 | 1008.0826 ng/ml |
| Clonazepam | 5.593 | 372299 | 4694.22 | 33.3 | 2999.41 | 5510 | 958.0980 ng/ml |
| Cocaine | 4.250 | 6735831 | 240630.53 | 43.5 | 317841.17 | 515160 | 1009.4682 ng/ml |
| Codeine | 2.563 | 727472 | 756.91 | 97.8 | 2921.19 | 36684 | 919.6180 ng/ml |
| Cyclobenzaprine | 5.617 | 4177619 | 1516.17 | 9.4 | 802.49 | 156292 | 1021.9106 ng/ml |
| Dextromethorphan | 5.252 | 2980649 | 8415.67 | 78.5 | 75790.21 | 135616 | 1005.8335 ng/ml |
| Dextrorphan | 4.106 | 2770264 | 1486.28 | 213.3 | 447383.26 | 350435 | 1004.1956 ng/ml |
| Diazepam | 5.934 | 1213693 | 6256.09 | 87.2 | 5115.78 | 59523 | 993.9868 ng/ml |
| Dihydrocodeine | 2.534 | 2178471 | 61635.35 | 68.0 | 69707.08 | 189379 | 723.9645 ng/ml |
| Diphenhydramine | 5.286 | 13893716 | 2558.74 | 33.5 | 2611.89 | 930001 | 1011.3239 ng/ml |
| Doxylamine | 4.514 | 21972650 | 518950.23 | 96.9 | 22898.63 | 1150651 | 917.6873 ng/ml |
| EDDP | 5.251 | 8463535 | 6756.57 | 40.9 | 3187.02 | 436392 | 1038.2585 ng/ml |
| Fentanyl | 5.072 | 584653 | 8590.25 | 76.4 | 66775.25 | 255826 | 114.1474 ng/ml |
| Fluoxetine | 5.702 | 3212556 | ∞ | 8.8 | ∞ | 135762 | 1016.2937 ng/ml |
| Hydrocodone | 2.998 | 2759818 | ∞ | 42.4 | 2468.75 | 204736 | 927.9244 ng/ml |
| Hydromorphone | 1.594 | 1850808 | ∞ | 78.9 | ∞ | 75082 | 987.2781 ng/ml |
| Ketamine | 4.026 | 7105949 | 464318.63 | 36.4 | 94443.33 | 383254 | 921.5325 ng/ml |
| Lamotrigine | 4.268 | 281474 | 14466.86 | 79.5 | 126405.99 | 383254 | 455.5899 ng/ml |
| Lorazepam | 5.728 | 176609 | 4533.42 | 57.4 | ∞ | 5510 | 1132.5964 ng/ml |
| Meprobamate | 4.881 | 511107 | 26488.01 | 26.3 | 7806.68 | 20845 | 1134.2941 ng/ml |
| Methadone | 5.648 | 9991292 | 268773.16 | 55.4 | 2879.25 | 475956 | 1000.1768 ng/ml |
| Methamphetamine | 3.202 | 9052331 | 120667.89 | 41.5 | 61134.08 | 598893 | 689.0931 ng/ml |
| Metoprolol | 4.313 | 1280661 | 4848.74 | 97.0 | ∞ | 926047 | 739.0570 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|----------|-----------|-------|-----------|------------|-----------------|
| Mirtazapine | 4.589 | 14559252 | 382858.32 | 49.1 | 140127.55 | 423368 | 1028.1325 ng/ml |
| Mitragynine | 5.200 | 1911565 | 2776.90 | 39.7 | 71316.23 | 475956 | 996.5939 ng/ml |
| Morphine | 1.233 | 342549 | ∞ | 23.9 | 2683.39 | 3695 | 968.4854 ng/ml |
| Norbuprenorphine | 4.983 | 15138 | 5032.54 | 86.7 | 700.14 | 8105 | 95.3604 ng/ml |
| Nordiazepam | 5.874 | 303206 | 8199.86 | 56.2 | 1568.58 | 10072 | 986.6459 ng/ml |
| Norfentanyl | 4.068 | 1345248 | 36252.06 | 37.3 | 4124.09 | 473438 | 112.6310 ng/ml |
| Norhydrocodone | 3.053 | 528286 | 2133.78 | 41.8 | ∞ | 40980 | 1110.5947 ng/ml |
| Noroxycodone | 2.889 | 1499314 | ∞ | 50.0 | 635.30 | 51155 | 977.5516 ng/ml |
| O-desmethyl-tramadol | 3.354 | 16785228 | 299951.56 | 5.9 | 4089.78 | 912374 | 1005.2711 ng/ml |
| Oxazepam | 5.738 | 179918 | 601.15 | 71.6 | 734.69 | 11074 | 1000.1458 ng/ml |
| Oxycodone | 2.814 | 5054034 | 9659.67 | 32.4 | ∞ | 248438 | 969.3121 ng/ml |
| Oxymorphone | 1.390 | 1245994 | 2277.02 | 49.1 | 956.33 | 50424 | 958.7344 ng/ml |
| Phentermine | 3.758 | 2198424 | 17204.99 | 2.6 | 2235.56 | 422850 | 702.9402 ng/ml |
| Promethazine | 5.534 | 10439217 | 200493.85 | 29.6 | 2581.75 | 451003 | 1007.5116 ng/ml |
| Quetiapine | 5.510 | 7552493 | 438054.44 | 59.6 | 61451.67 | 155724 | 760.4224 ng/ml |
| Sertraline | 5.770 | 897441 | 33941.22 | 89.9 | 44634.08 | 38197 | 997.0986 ng/ml |
| Temazepam | 5.798 | 1374950 | 22261.41 | 28.8 | 985.75 | 70120 | 1013.8250 ng/ml |
| Tramadol | 4.226 | 13813935 | 265166.69 | 3.3 | 685.89 | 926047 | 868.0240 ng/ml |
| Trazodone | 5.058 | 7030962 | 206949.23 | 79.4 | 154151.73 | 325549 | 972.7004 ng/ml |
| Venlafaxine | 5.027 | 13689826 | 21224.99 | 35.0 | 15059.85 | 698835 | 1008.8544 ng/ml |
| Zolpidem | 4.837 | 15219533 | 15147.51 | 29.5 | 1410.53 | 829563 | 922.0741 ng/ml |