



**Worklist: 3953**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u>                                   |   |
|-----------------|-------------|------------------|--|---|
| M2019-5481      | 3           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| M2019-5564      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| M2019-5584      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| M2020-0040      | 2           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| P2019-3618      | 1           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |    |
| P2019-3736      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| P2019-3767      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| P2020-0046      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| P2020-0067      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| P2020-0068      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |   |
| P2020-0081      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0082      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0083      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0084      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0086      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0098      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0099      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| P2020-0102      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |

**Worklist: 3957**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u>                                   |   |
|-----------------|-------------|------------------|--|---|
| P2019-3618      | 2           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |
| P2019-3618      | 4           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |  |

Samples ran with worklist 3953

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

Extraction Date: 01/16/20

Analyst: Sarah Pickle

Plate lot#: 190729

Plate Expiration: 01/29/20

**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 R<sup>2</sup> 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:**

Curve limits: 7-aminoclonazepam: 5-500, Amphetamine 5-500, Buprenorphine 2.5-100, Dihydrocodeine: 5-500, Lamotrigine 5-250, Lorazepam 10-1000, Meprobamate: 5-500, Mirtazapine 5-500, Oxazepam 10-1000 (reported qualitatively)

Did not evaluate: Norbuprenorphine



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

### 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  |                          |
| Expires:                           | 01/31/2020    |                          |

Flunitrazepam is a panel 2 compound and was not evaluated in this run.

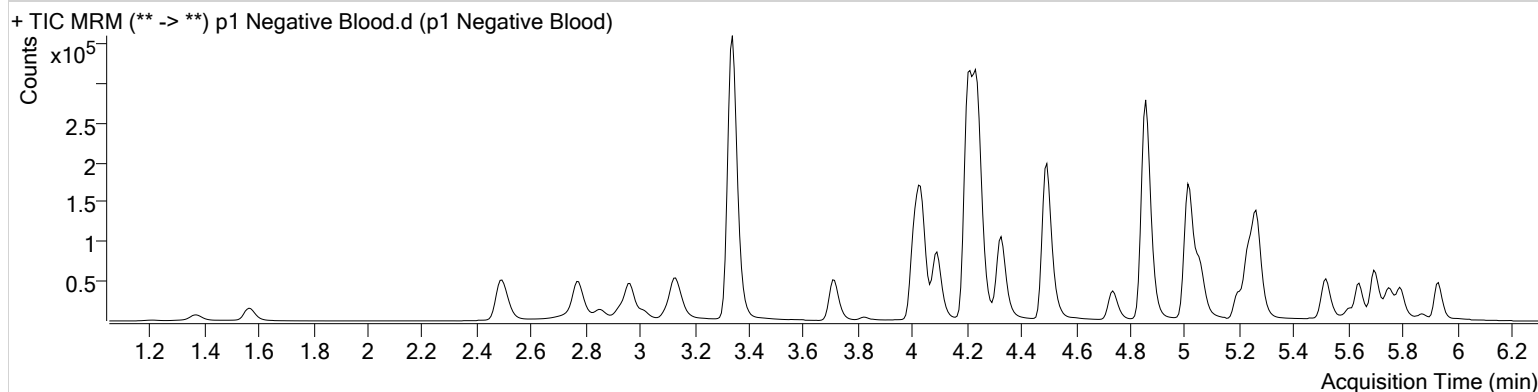


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |                     |
|-------------------------|-----------------------|------------------|---------------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 Negative Blood.d |
| <b>Type</b>             | Sample                | <b>Sample</b>    | p1 Negative Blood   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle        |
| <b>Sample Position</b>  | P5-E2                 | <b>Comment</b>   |                     |
| <b>Injection Volume</b> | 2                     |                  |                     |
| <b>Acq. Date-Time</b>   | 1/16/2020 11:56:54 PM |                  |                     |
| <b>Sample Info.</b>     |                       |                  |                     |

## Sample Chromatogram



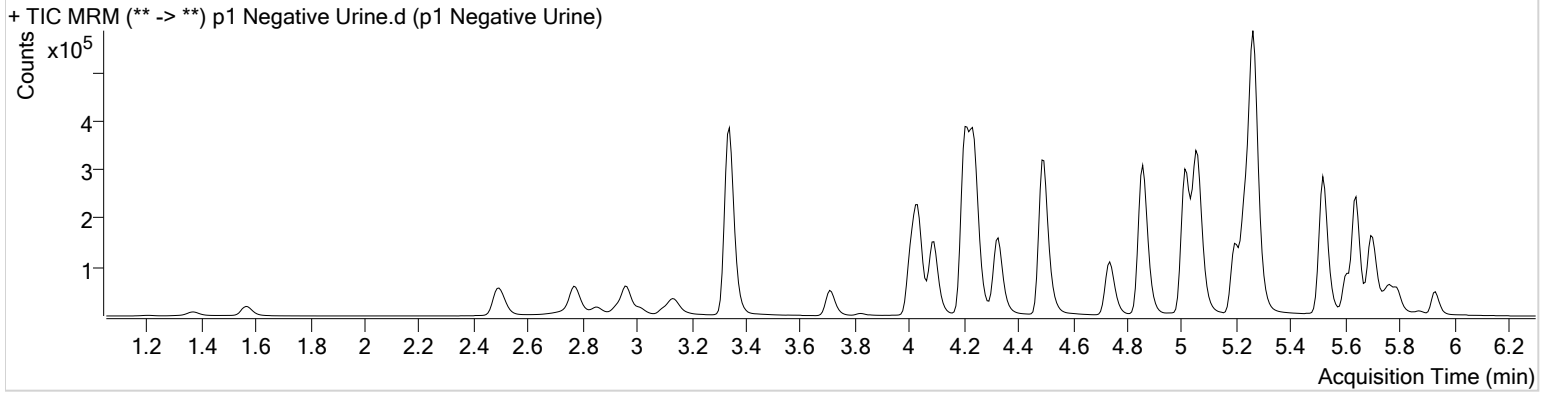
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |                     |
|-------------------------|-----------------------|------------------|---------------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 Negative Urine.d |
| <b>Type</b>             | Sample                | <b>Sample</b>    | p1 Negative Urine   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle        |
| <b>Sample Position</b>  | P5-G4                 | <b>Comment</b>   |                     |
| <b>Injection Volume</b> | 2                     |                  |                     |
| <b>Acq. Date-Time</b>   | 1/17/2020 12:07:29 AM |                  |                     |
| <b>Sample Info.</b>     |                       |                  |                     |

## Sample Chromatogram



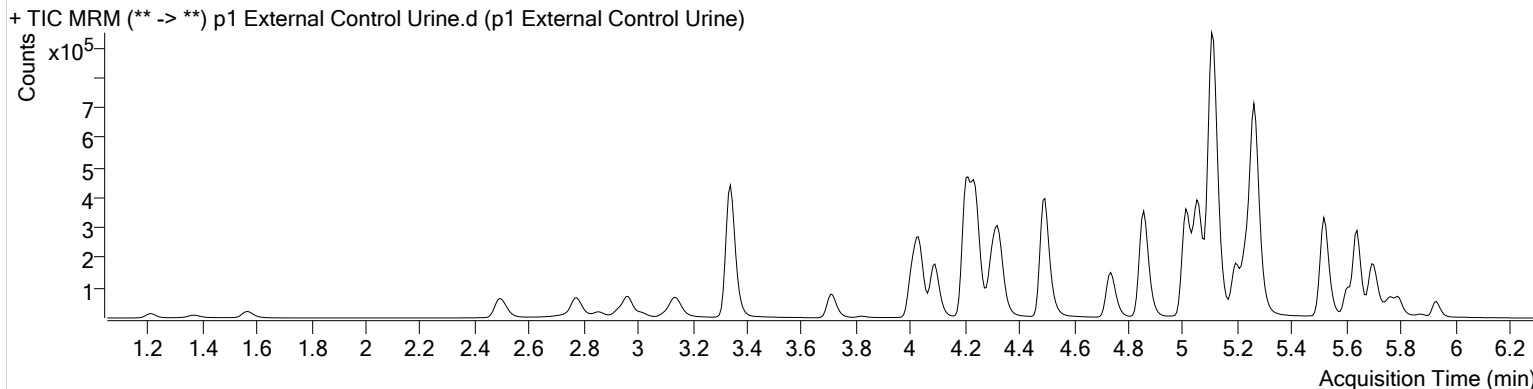
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |                             |
|-------------------------|-----------------------|------------------|-----------------------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 External Control Urine.d |
| <b>Type</b>             | Sample                | <b>Sample</b>    | p1 External Control Urine   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle                |
| <b>Sample Position</b>  | P5-H4                 | <b>Comment</b>   |                             |
| <b>Injection Volume</b> | 2                     |                  |                             |
| <b>Acq. Date-Time</b>   | 1/17/2020 12:18:03 AM |                  |                             |

## Sample Chromatogram



| Name       | RT    | Resp.   | S/N      | Ratio          | S/N     | ISTD Resp. | Final Conc.    |
|------------|-------|---------|----------|----------------|---------|------------|----------------|
| Clonazepam | 5.620 | 2432    | 34.28    | 6.4 <b>Low</b> | 28.71   | 3807       | 7.2013 ng/ml   |
| Metoprolol | 4.306 | 230890  | 6966.91  | 95.7           | 2185.76 | 1039533    | 140.2469 ng/ml |
| Morphine   | 1.213 | 29719   | 23283.51 | 24.1           | 6855.80 | 3009       | 108.3961 ng/ml |
| Trazodone  | 5.106 | 1363093 | 1239.70  | 78.9           | 7788.85 | 517248     | 110.4801 ng/ml |

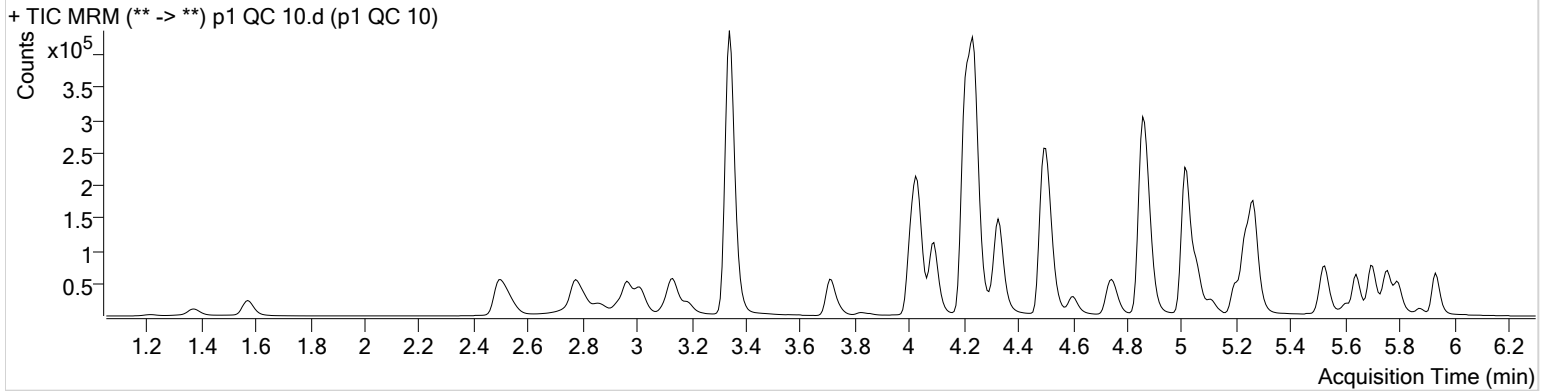
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |              |
|-------------------------|-----------------------|------------------|--------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 QC 10.d   |
| <b>Type</b>             | QC                    | <b>Sample</b>    | p1 QC 10     |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle |
| <b>Sample Position</b>  | P5-A2                 | <b>Comment</b>   |              |
| <b>Injection Volume</b> | 2                     |                  |              |
| <b>Acq. Date-Time</b>   | 1/16/2020 10:11:00 PM |                  |              |

**Sample Chromatogram**



| Name                   | RT           | Resp.      | S/N          | Ratio       | S/N             | ISTD Resp.   | Final Conc.         |
|------------------------|--------------|------------|--------------|-------------|-----------------|--------------|---------------------|
| 6-MAM                  | 3.109        | 1167       | 2351.33      | 69.5        | 2615.89         | 22479        | 1.0544 ng/ml        |
| 7-aminoclonazepam      | 4.231        | 12394      | 2089.15      | 83.7        | 3259.16         | 49918        | 9.8512 ng/ml        |
| a-hydroxyalprazolam    | 5.680        | 2331       | ∞            | 57.8        | 468.85          | 4548         | 8.9302 ng/ml        |
| alpha-PVP              | 4.337        | 57288      | 773.33       | 51.7        | 1026.38         | 269091       | 9.6478 ng/ml        |
| Alprazolam             | 5.756        | 28839      | 295.57       | 102.7       | 2114.34         | 70053        | 10.0069 ng/ml       |
| Amphetamine            | 3.014        | 43648      | 463.32       | 51.0        | 1228.95         | 43996        | 9.7344 ng/ml        |
| Benzoylcegonine        | 3.853        | 2788       | 76.39        | 8.0         | 35.98           | 9773         | 10.5323 ng/ml       |
| * <b>Buprenorphine</b> | <b>5.753</b> | <b>629</b> | <b>10.36</b> | <b>16.5</b> | <b>43.13</b>    | <b>20857</b> | <b>1.1667 ng/ml</b> |
| Bupropion              | 4.759        | 32306      | 11532.56     | 58.1        | 573.14          | 113329       | 9.9868 ng/ml        |
| Carisoprodol           | 5.705        | 15792      | 2603.08      | 55.3        | 110.09          | 79748        | 10.2418 ng/ml       |
| Citalopram             | 5.202        | 18395      | 6252.85      | 39.9        | 433.05          | 85369        | 10.0507 ng/ml       |
| Clonazepam             | 5.586        | 3423       | 355.96       | 32.2        | 4713.49         | 3701         | 10.4142 ng/ml       |
| Cocaine                | 4.237        | 80675      | 6330.07      | 43.2        | ∞               | 60065        | 9.8568 ng/ml        |
| Codeine                | 2.550        | 8897       | ∞            | 108.4       | 400.89          | 38421        | 9.8961 ng/ml        |
| Cyclobenzaprine        | 5.610        | 6606       | ∞            | 12.2        | 67.43           | 22374        | 10.1769 ng/ml       |
| Dextromethorphan       | 5.245        | 7896       | 590.68       | 78.6        | 2374.70         | 34686        | 10.0599 ng/ml       |
| Dextrorphan            | 4.093        | 15410      | 1834.62      | 215.8       | 3479.58         | 204811       | 10.2149 ng/ml       |
| Diazepam               | 5.941        | 19992      | 177.76       | 87.6        | 364.24          | 94931        | 10.0980 ng/ml       |
| Dihydrocodeine         | 2.528        | 24231      | 1130.57      | 66.4        | 575.14          | 130702       | 10.2502 ng/ml       |
| Diphenhydramine        | 5.272        | 37140      | 136.43       | 34.3        | 584.58          | 293125       | 10.1088 ng/ml       |
| Doxylamine             | 4.514        | 130095     | 3529.18      | 98.4        | 23763.05        | 549016       | 9.4571 ng/ml        |
| EDDP                   | 5.237        | 33470      | 284.86       | 41.0        | 377.46          | 180908       | 10.1703 ng/ml       |
| Fentanyl               | 5.072        | 702        | 180.61       | 70.4        | 2369.31         | 35486        | 1.0662 ng/ml        |
| Fluoxetine             | 5.702        | 7505       | 125.93       | 7.5         | ∞               | 27796        | 11.5739 ng/ml       |
| Hydrocodone            | 2.998        | 18778      | 220.07       | 40.2        | 137.07          | 123214       | 9.9901 ng/ml        |
| Hydromorphone          | 1.581        | 13132      | 505.33       | 78.6        | 153.95          | 50887        | 9.7339 ng/ml        |
| Ketamine               | 4.026        | 61783      | 2173.01      | 37.3        | ∞               | 280771       | 10.1837 ng/ml       |
| Lamotrigine            | 4.248        | 6321       | 1458.60      | 77.8        | 197.49          | 280771       | 10.5721 ng/ml       |
| Lorazepam              | 5.728        | 1243       | 70.74        | 46.9        | 5.83 <b>Low</b> | 3701         | 11.1656 ng/ml       |
| Meprobamate            | 4.875        | 2768       | 446.78       | 26.1        | 77.65           | 13882        | 10.5356 ng/ml       |
| Methadone              | 5.641        | 20626      | 285.55       | 52.4        | 124.47          | 93042        | 10.4717 ng/ml       |
| Methamphetamine        | 3.188        | 30948      | 460.92       | 41.7        | 70.36           | 123137       | 9.8001 ng/ml        |
| Metoprolol             | 4.306        | 12450      | 4935.34      | 96.3        | 1836.59         | 731512       | 9.8084 ng/ml        |



# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.  | S/N      | Ratio | S/N             | ISTD Resp. | Final Conc.   |
|----------------------|-------|--------|----------|-------|-----------------|------------|---------------|
| Mirtazapine          | 4.602 | 42931  | 1756.06  | 50.3  | 259.76          | 269091     | 8.9771 ng/ml  |
| Mitragynine          | 5.207 | 3504   | 4316.26  | 39.7  | 4560.89         | 93042      | 11.0788 ng/ml |
| Morphine             | 1.220 | 2482   | 830.99   | 23.4  | 1350.27         | 2408       | 10.7704 ng/ml |
| Nordiazepam          | 5.881 | 3863   | ∞        | 56.8  | ∞               | 11270      | 10.6554 ng/ml |
| Norfentanyl          | 4.053 | 7321   | 640.44   | 37.6  | 120.65          | 312771     | 0.9382 ng/ml  |
| Norhydrocodone       | 3.039 | 2042   | 103.20   | 45.5  | 116.96          | 21833      | 9.1123 ng/ml  |
| Noroxycodone         | 2.883 | 12568  | 298.84   | 46.4  | 382.69          | 38542      | 10.0827 ng/ml |
| O-desmethyl-tramadol | 3.348 | 170238 | 2885.88  | 6.0   | 2058.32         | 910438     | 9.8914 ng/ml  |
| Oxazepam             | 5.738 | 1074   | 11.43    | 64.0  | 16.87           | 6818       | 10.3338 ng/ml |
| Oxycodone            | 2.807 | 40159  | 722.03   | 32.0  | 11365.83        | 174057     | 10.5577 ng/ml |
| Oxymorphone          | 1.376 | 7594   | 286.97   | 47.1  | 201.71          | 26862      | 10.1066 ng/ml |
| Phentermine          | 3.745 | 11791  | 219.00   | 2.2   | 7.64 <b>Low</b> | 145184     | 9.2706 ng/ml  |
| Promethazine         | 5.527 | 15816  | 240.89   | 29.8  | 104.36          | 65351      | 11.0268 ng/ml |
| Quetiapine           | 5.530 | 38698  | ∞        | 58.5  | 878.68          | 46871      | 10.4511 ng/ml |
| Sertraline           | 5.770 | 4699   | 295.78   | 91.8  | 124.25          | 15391      | 12.5137 ng/ml |
| Temazepam            | 5.805 | 12316  | 122.68   | 34.4  | 46.67           | 68802      | 10.2649 ng/ml |
| Tramadol             | 4.219 | 149946 | 14861.47 | 3.4   | 432.27          | 731512     | 10.1457 ng/ml |
| Trazodone            | 5.106 | 25006  | 1955.37  | 78.7  | 1499.47         | 101528     | 9.7000 ng/ml  |
| Venlafaxine          | 5.020 | 83064  | 2482.89  | 36.4  | 391.00          | 451599     | 10.0739 ng/ml |
| Zolpidem             | 4.878 | 146173 | 13535.01 | 31.4  | 2833.40         | 687565     | 10.3671 ng/ml |

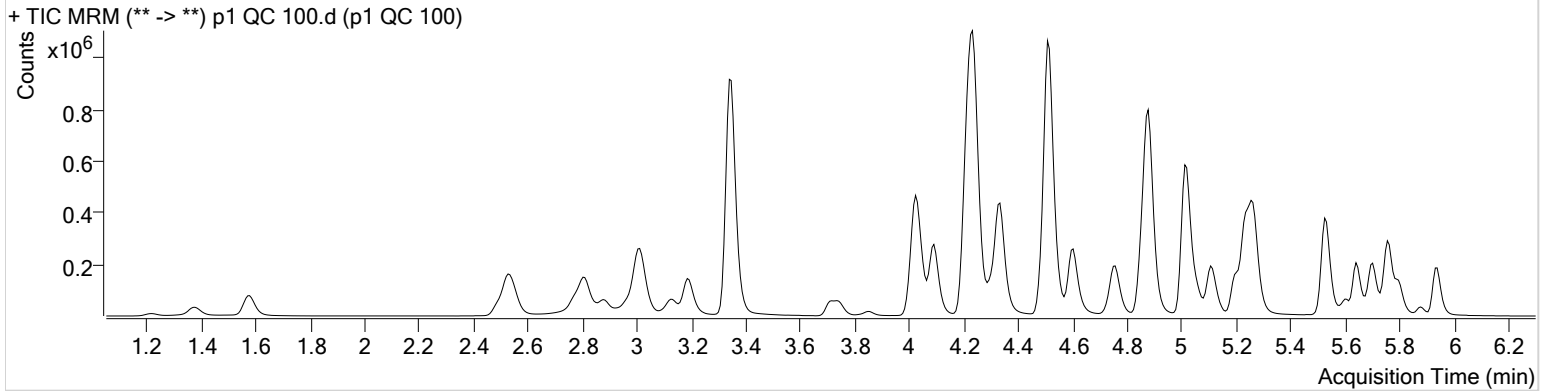
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |              |
|-------------------------|-----------------------|------------------|--------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 QC 100.d  |
| <b>Type</b>             | QC                    | <b>Sample</b>    | p1 QC 100    |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle |
| <b>Sample Position</b>  | P5-B2                 | <b>Comment</b>   |              |
| <b>Injection Volume</b> | 2                     |                  |              |
| <b>Acq. Date-Time</b>   | 1/16/2020 10:32:11 PM |                  |              |

## Sample Chromatogram



| Name                | RT    | Resp.   | S/N       | Ratio | S/N       | ISTD Resp. | Final Conc.    |
|---------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| 6-MAM               | 3.109 | 10204   | 1869.77   | 70.3  | 1892.29   | 20675      | 10.0883 ng/ml  |
| 7-aminoclonazepam   | 4.231 | 105604  | 268.40    | 80.2  | 12509.35  | 44883      | 102.3306 ng/ml |
| a-hydroxyalprazolam | 5.680 | 21556   | 363.88    | 60.7  | 450.46    | 4500       | 89.1610 ng/ml  |
| alpha-PVP           | 4.337 | 526022  | 943.46    | 50.6  | 5748.28   | 248590     | 96.6167 ng/ml  |
| Alprazolam          | 5.756 | 246695  | 1544.31   | 103.1 | 2305.69   | 61793      | 99.2207 ng/ml  |
| Amphetamine         | 3.014 | 372182  | 4090.38   | 51.1  | 4103.27   | 42713      | 104.2088 ng/ml |
| Benzoylcegonine     | 3.847 | 26478   | 1444.87   | 8.0   | 173.91    | 9492       | 101.1455 ng/ml |
| Buprenorphine       | 5.753 | 5091    | 82.17     | 16.4  | 122.47    | 20438      | 9.1088 ng/ml   |
| Bupropion           | 4.759 | 278522  | 30587.98  | 57.6  | 16368.16  | 101861     | 99.3457 ng/ml  |
| Carisoprodol        | 5.705 | 138343  | 26509.70  | 54.3  | 237.69    | 70398      | 102.3666 ng/ml |
| Citalopram          | 5.195 | 180130  | 3395.17   | 41.6  | 807.98    | 87836      | 95.8695 ng/ml  |
| Clonazepam          | 5.586 | 30952   | 26781.64  | 34.2  | 2501.29   | 3409       | 102.0131 ng/ml |
| Cocaine             | 4.237 | 678503  | 47963.05  | 43.2  | 21383.67  | 519143     | 96.0761 ng/ml  |
| Codeine             | 2.550 | 77662   | 5037.00   | 100.4 | 108847.00 | 33038      | 106.8389 ng/ml |
| Cyclobenzaprine     | 5.610 | 66111   | 4971.79   | 10.6  | 68.13     | 24715      | 97.3422 ng/ml  |
| Dextromethorphan    | 5.245 | 78730   | 420.75    | 80.5  | 5491.45   | 37524      | 95.6947 ng/ml  |
| Dextrorphan         | 4.093 | 141268  | 8821.45   | 211.6 | 40972.27  | 190021     | 101.0751 ng/ml |
| Diazepam            | 5.941 | 169671  | 1401.09   | 87.2  | 1340.80   | 84103      | 100.4601 ng/ml |
| Dihydrocodeine      | 2.528 | 205712  | 137356.04 | 68.7  | 14261.46  | 120748     | 102.4703 ng/ml |
| Diphenhydramine     | 5.266 | 369942  | 25554.13  | 34.4  | 3696.94   | 297877     | 97.3324 ng/ml  |
| Doxylamine          | 4.514 | 1244155 | 17352.62  | 97.6  | 5252.93   | 537151     | 103.4783 ng/ml |
| EDDP                | 5.237 | 341017  | 11203.61  | 41.3  | 2464.61   | 190833     | 99.9814 ng/ml  |
| Fentanyl            | 5.072 | 6881    | 1047.91   | 67.0  | 280.18    | 38727      | 9.6897 ng/ml   |
| Fluoxetine          | 5.702 | 68466   | 1427.26   | 8.3   | 10773.27  | 30502      | 98.6427 ng/ml  |
| Hydrocodone         | 2.991 | 162837  | 627.11    | 42.6  | 350.45    | 112308     | 102.9317 ng/ml |
| Hydromorphone       | 1.581 | 113284  | 911.50    | 78.3  | ∞         | 45394      | 97.2909 ng/ml  |
| Ketamine            | 4.026 | 535930  | 17544.38  | 38.6  | 2079.78   | 252144     | 103.3549 ng/ml |
| Lamotrigine         | 4.248 | 52860   | ∞         | 78.9  | 12465.66  | 252144     | 106.3331 ng/ml |
| Lorazepam           | 5.728 | 10490   | 256.05    | 55.2  | 24.55     | 3409       | 86.4473 ng/ml  |
| Meprobamate         | 4.875 | 23988   | 818.75    | 26.8  | 160.41    | 13147      | 99.6712 ng/ml  |
| Methadone           | 5.641 | 202804  | 699.15    | 52.9  | 1921.79   | 101227     | 94.6853 ng/ml  |
| Methamphetamine     | 3.188 | 272529  | 1681.80   | 42.8  | 403.02    | 122060     | 105.1684 ng/ml |
| Metoprolol          | 4.299 | 111366  | 7962.43   | 96.2  | 6379.45   | 650131     | 107.9308 ng/ml |

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# AM #28 Multi-Drug Quant. Results

| Name                 | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|----------------------|-------|---------|----------|-------|----------|------------|----------------|
| Mirtazapine          | 4.602 | 418157  | 9974.76  | 49.8  | 5678.70  | 248590     | 93.0302 ng/ml  |
| Mitragynine          | 5.207 | 33689   | 3975.73  | 40.1  | 17006.96 | 101227     | 107.6851 ng/ml |
| Morphine             | 1.220 | 21289   | 1031.60  | 22.9  | 214.59   | 2158       | 108.2920 ng/ml |
| Nordiazepam          | 5.881 | 32780   | 1098.79  | 58.2  | 893.78   | 10437      | 99.3643 ng/ml  |
| Norfentanyl          | 4.061 | 70142   | 1474.16  | 38.3  | 3193.61  | 302914     | 8.9002 ng/ml   |
| Norhydrocodone       | 3.039 | 24491   | 281.37   | 42.8  | 1576.18  | 23047      | 93.2032 ng/ml  |
| Noroxycodone         | 2.883 | 109125  | 388.17   | 49.0  | 2674.37  | 34009      | 103.4682 ng/ml |
| O-desmethyl-tramadol | 3.348 | 1478132 | 28278.51 | 6.0   | 5572.84  | 802770     | 101.4418 ng/ml |
| Oxazepam             | 5.738 | 9440    | 268.04   | 73.8  | 42.55    | 6623       | 94.4260 ng/ml  |
| Oxycodone            | 2.807 | 352392  | 5478.15  | 31.7  | 4350.31  | 157755     | 105.5933 ng/ml |
| Oxymorphone          | 1.376 | 66054   | 2203.30  | 47.8  | 236.05   | 24712      | 98.6422 ng/ml  |
| Phentermine          | 3.745 | 107044  | 725.78   | 2.2   | 85.28    | 139297     | 106.8768 ng/ml |
| Promethazine         | 5.527 | 149655  | 2642.98  | 30.8  | 578.89   | 71707      | 95.7050 ng/ml  |
| Quetiapine           | 5.530 | 372116  | 1188.85  | 60.3  | 2532.48  | 47228      | 107.4031 ng/ml |
| Sertraline           | 5.770 | 35856   | 698.69   | 93.1  | 458.57   | 16105      | 95.0976 ng/ml  |
| Temazepam            | 5.798 | 117159  | 1148.01  | 30.2  | 246.39   | 63909      | 100.9236 ng/ml |
| Tramadol             | 4.219 | 1264499 | 2717.87  | 3.4   | 1042.31  | 650131     | 110.0093 ng/ml |
| Trazodone            | 5.106 | 263409  | 34614.11 | 78.4  | 39823.59 | 108945     | 101.3061 ng/ml |
| Venlafaxine          | 5.013 | 767690  | 1535.67  | 36.6  | 1570.54  | 426491     | 96.6254 ng/ml  |
| Zolpidem             | 4.878 | 1286657 | 717.35   | 31.3  | 2227.68  | 632645     | 103.4193 ng/ml |

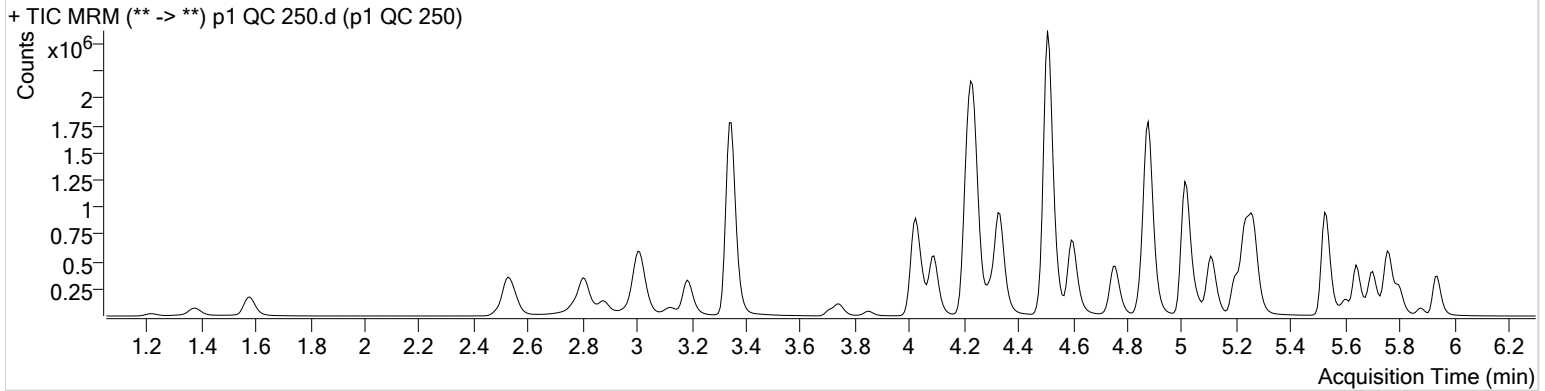
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

**Instrument** Falco **Data File** p1 QC 250.d  
**Type** QC **Sample** p1 QC 250  
**Acq. Method** MDQ P1 01112020.m **Operator** Sarah Pickle  
**Sample Position** P5-C2 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 1/16/2020 10:53:22 PM  
**Sample Info.**

## Sample Chromatogram



| Name                | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|---------------------|-------|---------|-----------|-------|----------|------------|----------------|
| 6-MAM               | 3.109 | 26220   | 934.67    | 72.4  | 1509.60  | 21090      | 25.4226 ng/ml  |
| 7-aminoclonazepam   | 4.231 | 207026  | 336.46    | 83.0  | 7017.25  | 39807      | 227.4733 ng/ml |
| a-hydroxyalprazolam | 5.680 | 53033   | ∞         | 63.9  | 933.40   | 3977       | 249.3886 ng/ml |
| alpha-PVP           | 4.337 | 1323098 | 41236.17  | 50.2  | 6403.72  | 246755     | 244.9513 ng/ml |
| Alprazolam          | 5.756 | 558916  | 1809.80   | 101.7 | 2213.62  | 53675      | 259.1943 ng/ml |
| Amphetamine         | 3.014 | 862055  | 25526.25  | 51.3  | 15898.14 | 43358      | 240.8605 ng/ml |
| Benzoylcegonine     | 3.847 | 70668   | 8356.21   | 7.8   | 1775.00  | 9497       | 269.4463 ng/ml |
| Buprenorphine       | 5.753 | 12357   | ∞         | 17.2  | ∞        | 18803      | 23.9145 ng/ml  |
| Bupropion           | 4.759 | 712017  | 195886.85 | 58.1  | 5670.08  | 102006     | 254.2498 ng/ml |
| Carisoprodol        | 5.705 | 319019  | 79190.75  | 54.5  | 773.78   | 65524      | 253.7361 ng/ml |
| Citalopram          | 5.195 | 478113  | 1948.03   | 41.3  | 1572.71  | 90803      | 246.1854 ng/ml |
| Clonazepam          | 5.586 | 81273   | 2730.60   | 32.9  | 1756.52  | 3714       | 245.7994 ng/ml |
| Cocaine             | 4.237 | 1625942 | 125123.79 | 42.3  | 32765.99 | 493859     | 242.0653 ng/ml |
| Codeine             | 2.550 | 175926  | 1037.06   | 103.3 | 2731.23  | 31315      | 256.3019 ng/ml |
| Cyclobenzaprine     | 5.610 | 185822  | 518772.52 | 10.6  | 1308.67  | 26644      | 254.8183 ng/ml |
| Dextromethorphan    | 5.245 | 209125  | 18710.10  | 79.8  | 1211.34  | 38684      | 247.1378 ng/ml |
| Dextrorphan         | 4.093 | 354449  | ∞         | 210.0 | 2480.91  | 187907     | 256.4799 ng/ml |
| Diazepam            | 5.941 | 388647  | 1271.52   | 86.4  | 2367.23  | 77115      | 251.6161 ng/ml |
| Dihydrocodeine      | 2.528 | 490040  | 1512.33   | 67.6  | 23081.75 | 123388     | 240.2222 ng/ml |
| Diphenhydramine     | 5.266 | 980139  | 705.11    | 33.5  | 365.72   | 314419     | 244.0082 ng/ml |
| Doxylamine          | 4.508 | 3259805 | 34464.38  | 97.8  | ∞        | 568573     | 257.9955 ng/ml |
| EDDP                | 5.237 | 914641  | 2361.10   | 42.0  | 3655.55  | 201920     | 253.7452 ng/ml |
| Fentanyl            | 5.072 | 19629   | 61623.13  | 68.6  | ∞        | 42062      | 25.4709 ng/ml  |
| Fluoxetine          | 5.702 | 185782  | 736.14    | 9.2   | ∞        | 32561      | 251.2594 ng/ml |
| Hydrocodone         | 2.991 | 406561  | 1439.23   | 41.4  | 734.36   | 117558     | 246.8012 ng/ml |
| Hydromorphone       | 1.581 | 282358  | 1108.56   | 78.5  | ∞        | 44145      | 249.9275 ng/ml |
| Ketamine            | 4.026 | 1327745 | 141380.31 | 38.5  | 2663.24  | 254110     | 254.9168 ng/ml |
| Lamotrigine         | 4.248 | 113790  | 9718.33   | 80.3  | ∞        | 254110     | 228.2071 ng/ml |
| Lorazepam           | 5.728 | 29036   | 1841.40   | 56.1  | 169.59   | 3714       | 216.6090 ng/ml |
| Meprobamate         | 4.875 | 56654   | 290.70    | 25.3  | 2017.89  | 12339      | 251.4165 ng/ml |
| Methadone           | 5.641 | 542638  | 11693.49  | 53.5  | 12774.93 | 105969     | 242.0189 ng/ml |
| Methamphetamine     | 3.188 | 636140  | 1599.84   | 42.9  | 1068.24  | 118452     | 256.1910 ng/ml |
| Metoprolol          | 4.299 | 263772  | 65374.24  | 96.5  | ∞        | 645308     | 258.9542 ng/ml |

# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine          | 4.596 | 1139481 | 19005.52  | 50.2  | 41816.82 | 246755     | 255.0974 ng/ml |
| Mitragynine          | 5.207 | 88138   | 4603.79   | 39.7  | 3996.28  | 105969     | 270.9869 ng/ml |
| Morphine             | 1.220 | 50264   | 1486.68   | 23.6  | 3954.62  | 2101       | 263.3627 ng/ml |
| **Norbuprenorphine   | 4.963 | 508     | 128.32    | 93.6  | 3670.60  | 895        | 28.9135 ng/ml  |
| Nordiazepam          | 5.881 | 79624   | 1167.71   | 56.7  | 868.91   | 10256      | 245.9160 ng/ml |
| Norfentanyl          | 4.053 | 187280  | 40679.12  | 37.7  | 2067.80  | 298223     | 24.0641 ng/ml  |
| Norhydrocodone       | 3.032 | 77660   | 664.16    | 40.7  | 171.47   | 26409      | 256.1572 ng/ml |
| Noroxycodone         | 2.876 | 267449  | 1701.94   | 49.0  | 864.92   | 34099      | 253.6090 ng/ml |
| O-desmethyl-tramadol | 3.348 | 3653955 | 20429.46  | 6.0   | 3732.63  | 779476     | 258.9646 ng/ml |
| Oxazepam             | 5.731 | 24518   | 415.28    | 69.7  | 105.21   | 6599       | 246.3437 ng/ml |
| Oxycodone            | 2.800 | 891894  | 10524.37  | 31.8  | 2404.54  | 160713     | 262.9136 ng/ml |
| Oxymorphone          | 1.376 | 165668  | 1347.33   | 47.8  | 731.17   | 24437      | 250.7473 ng/ml |
| Phentermine          | 3.745 | 246763  | ∞         | 2.2   | 146.35   | 137666     | 252.3138 ng/ml |
| Promethazine         | 5.527 | 425354  | 3976.89   | 29.8  | 2255.07  | 79963      | 244.0556 ng/ml |
| Quetiapine           | 5.530 | 1005898 | 1818.93   | 59.2  | 19752.71 | 51916      | 265.4252 ng/ml |
| Sertraline           | 5.770 | 89481   | 3887.77   | 89.6  | 1206.97  | 16343      | 234.7607 ng/ml |
| Temazepam            | 5.798 | 298247  | 794.91    | 29.4  | 1588.55  | 62552      | 261.7668 ng/ml |
| Tramadol             | 4.219 | 3025094 | 170377.83 | 3.4   | ∞        | 645308     | 267.4275 ng/ml |
| Trazodone            | 5.106 | 776835  | 496.03    | 77.9  | 3343.39  | 125825     | 259.7587 ng/ml |
| Venlafaxine          | 5.013 | 1979195 | 103277.07 | 36.5  | 1673.38  | 428929     | 247.3468 ng/ml |
| Zolpidem             | 4.878 | 3240807 | 1194.07   | 31.0  | 53251.69 | 639616     | 258.3899 ng/ml |

\*\*Did not evaluate

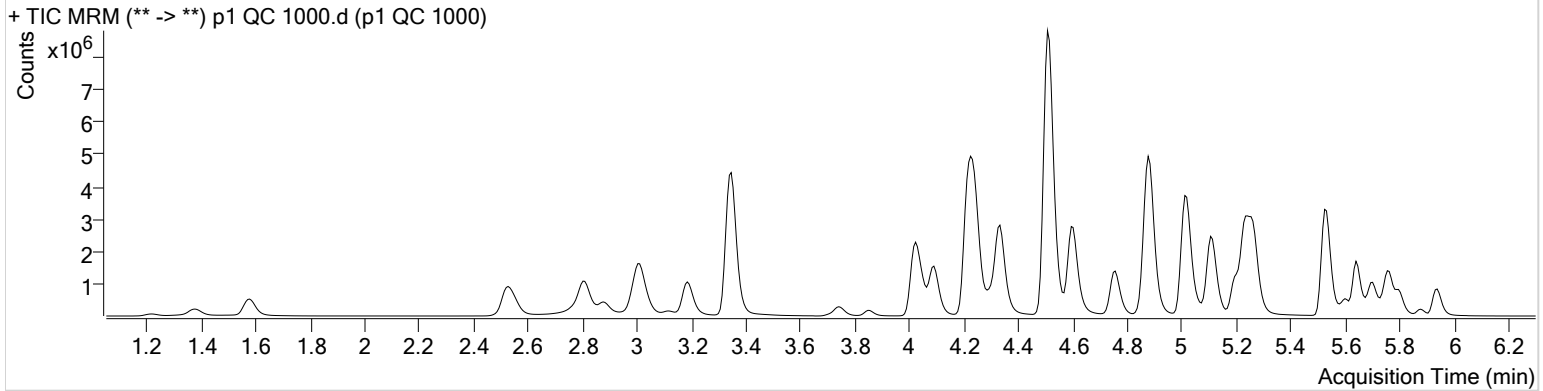
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                       |                  |              |
|-------------------------|-----------------------|------------------|--------------|
| <b>Instrument</b>       | Falco                 | <b>Data File</b> | p1 QC 1000.d |
| <b>Type</b>             | QC                    | <b>Sample</b>    | p1 QC 1000   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m     | <b>Operator</b>  | Sarah Pickle |
| <b>Sample Position</b>  | P5-D2                 | <b>Comment</b>   |              |
| <b>Injection Volume</b> | 2                     |                  |              |
| <b>Acq. Date-Time</b>   | 1/16/2020 11:14:33 PM |                  |              |

## Sample Chromatogram



| Name                           | RT               | Resp.              | S/N                 | Ratio           | S/N                 | ISTD Resp.        | Final Conc.               |
|--------------------------------|------------------|--------------------|---------------------|-----------------|---------------------|-------------------|---------------------------|
| 6-MAM                          | 3.109            | 96117              | 1621.57             | 70.6            | 4508.80             | 19339             | 101.6547 ng/ml            |
| * <del>7-aminoclonazepam</del> | <del>4.231</del> | <del>347120</del>  | <del>6997.37</del>  | <del>81.1</del> | <del>17332.13</del> | <del>21735</del>  | <del>700.7261 ng/ml</del> |
| a-hydroxyalprazolam            | 5.680            | 195074             | 926.80              | 61.9            | 836.38              | 3668              | 996.7671 ng/ml            |
| alpha-PVP                      | 4.337            | 4388190            | 228054.41           | 50.1            | 4052.91             | 205906            | 973.8188 ng/ml            |
| Alprazolam                     | 5.756            | 1430797            | 6961.00             | 102.4           | 1189.93             | 34705             | 1026.9532 ng/ml           |
| * <del>Amphetamine</del>       | <del>3.014</del> | <del>2311729</del> | <del>20006.18</del> | <del>51.9</del> | <del>18276.56</del> | <del>39564</del>  | <del>712.5032 ng/ml</del> |
| Benzoylcegonine                | 3.847            | 297502             | 33132.15            | 7.6             | 2533.93             | 9234              | 1165.8822 ng/ml           |
| Buprenorphine                  | 5.753            | 33391              | 1434.03             | 16.4            | 14678.36            | 10356             | 117.0558 ng/ml            |
| Bupropion                      | 4.759            | 2244061            | 213188.98           | 57.5            | 134401.52           | 81619             | 1002.6878 ng/ml           |
| Carisoprodol                   | 5.705            | 874606             | 868.28              | 54.3            | 691.28              | 44970             | 1013.8302 ng/ml           |
| Citalopram                     | 5.195            | 1724310            | 1717.77             | 40.9            | 2382.86             | 80836             | 997.4207 ng/ml            |
| Clonazepam                     | 5.586            | 288518             | 248910.21           | 33.6            | ∞                   | 3695              | 876.8967 ng/ml            |
| Cocaine                        | 4.237            | 4656588            | 782623.03           | 42.2            | 233252.03           | 347963            | 984.0225 ng/ml            |
| Codeine                        | 2.550            | 482926             | 1259.06             | 100.5           | 25032.78            | 23132             | 954.3487 ng/ml            |
| Cyclobenzaprine                | 5.610            | 678169             | 1876056.06          | 10.8            | 1335.36             | 25153             | 986.9516 ng/ml            |
| Dextromethorphan               | 5.245            | 681647             | 2469.20             | 79.2            | 1232.64             | 31557             | 988.5722 ng/ml            |
| Dextrorphan                    | 4.093            | 1151390            | 748127.16           | 209.8           | 287637.71           | 151592            | 1032.7804 ng/ml           |
| Diazepam                       | 5.941            | 1015829            | 2666.22             | 87.6            | 1144.95             | 52172             | 973.3356 ng/ml            |
| * <del>Dihydrocodeine</del>    | <del>2.521</del> | <del>1411744</del> | <del>53276.56</del> | <del>66.9</del> | <del>3467.05</del>  | <del>114251</del> | <del>749.5332 ng/ml</del> |
| Diphenhydramine                | 5.266            | 3615985            | 4635.55             | 33.2            | 1371.22             | 280930            | 1006.9008 ng/ml           |
| Doxylamine                     | 4.508            | 11961123           | ∞                   | 96.7            | 851153.88           | 546856            | 987.7909 ng/ml            |
| EDDP                           | 5.237            | 3820733            | 8400.13             | 42.2            | 2505.29             | 211058            | 1014.6825 ng/ml           |
| Fentanyl                       | 5.072            | 80158              | 4693.07             | 69.8            | 36386.74            | 42084             | 104.0022 ng/ml            |
| Fluoxetine                     | 5.695            | 565508             | 27141.03            | 8.9             | 20187.27            | 25775             | 967.0971 ng/ml            |
| Hydrocodone                    | 2.991            | 1405350            | ∞                   | 42.0            | ∞                   | 108117            | 930.1628 ng/ml            |
| Hydromorphone                  | 1.581            | 941717             | ∞                   | 78.6            | 1287.85             | 38302             | 961.7547 ng/ml            |
| Ketamine                       | 4.026            | 4186754            | 350789.62           | 37.9            | 93509.56            | 221317            | 924.4398 ng/ml            |
| * <del>Lamotrigine</del>       | <del>4.254</del> | <del>232834</del>  | <del>34344.04</del> | <del>80.9</del> | <del>3954.82</del>  | <del>221317</del> | <del>537.4218 ng/ml</del> |
| Lorazepam                      | 5.728            | 120345             | 2940.60             | 57.4            | 710.25              | 3695              | 896.1311 ng/ml            |
| * <del>Meprobamate</del>       | <del>4.868</del> | <del>136958</del>  | <del>5326.47</del>  | <del>26.2</del> | <del>12309.58</del> | <del>10301</del>  | <del>728.8475 ng/ml</del> |
| Methadone                      | 5.641            | 2191187            | 3629.30             | 53.2            | 66584.23            | 104367            | 992.3041 ng/ml            |
| Methamphetamine                | 3.188            | 2144473            | 2219.74             | 43.1            | 12257.21            | 113310            | 908.6237 ng/ml            |
| Metoprolol                     | 4.299            | 739453             | ∞                   | 95.9            | ∞                   | 538668            | 872.0608 ng/ml            |

# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.              | S/N                  | Ratio           | S/N                  | ISTD Resp.        | Final Conc.                |
|----------------------|-------|--------------------|----------------------|-----------------|----------------------|-------------------|----------------------------|
| * Mirtazapine        | 4.602 | <del>4675577</del> | <del>185191.08</del> | <del>49.8</del> | <del>505235.16</del> | <del>205906</del> | <del>1253.7222 ng/ml</del> |
| Mitragynine          | 5.207 | 311820             | 24020.88             | 39.4            | ∞                    | 104367            | 976.6617 ng/ml             |
| Morphine             | 1.220 | 160850             | 407.42               | 24.2            | 1830.28              | 1747              | 1015.4963 ng/ml            |
| ** Norbuprenorphine  | 4.970 | 1909               | 106.18               | 78.0            | 17581.46             | 856               | 112.0005 ng/ml             |
| Nordiazepam          | 5.881 | 252699             | 3159.91              | 56.2            | 2403.63              | 7992              | 1002.2479 ng/ml            |
| Norfentanyl          | 4.061 | 684419             | 3315.13              | 37.6            | 2555.07              | 226005            | 115.8803 ng/ml             |
| Norhydrocodone       | 3.039 | 295804             | 1679.06              | 41.6            | 2381.03              | 23141             | 1110.1306 ng/ml            |
| Noroxycodone         | 2.876 | 864810             | 1548.00              | 48.2            | 7158.31              | 28565             | 980.3037 ng/ml             |
| O-desmethyl-tramadol | 3.348 | 11209203           | 208274.89            | 5.9             | 86693.39             | 594121            | 1043.6489 ng/ml            |
| Oxazepam             | 5.731 | 108451             | 2991.91              | 68.7            | 428.91               | 7655              | 939.5922 ng/ml             |
| Oxycodone            | 2.800 | 3108934            | 4223.44              | 31.7            | 1577.79              | 147973            | 996.4414 ng/ml             |
| Oxymorphone          | 1.376 | 540566             | ∞                    | 48.6            | ∞                    | 21784             | 918.7690 ng/ml             |
| Phentermine          | 3.745 | 725704             | ∞                    | 2.2             | 501.08               | 126691            | 811.2782 ng/ml             |
| Promethazine         | 5.520 | 1486289            | 263777.49            | 30.1            | 4747.65              | 69216             | 985.4457 ng/ml             |
| Quetiapine           | 5.530 | 3935945            | 17532.57             | 58.3            | 5170.03              | 58489             | 924.0773 ng/ml             |
| Sertraline           | 5.770 | 240237             | ∞                    | 90.4            | 59051.04             | 10365             | 995.7398 ng/ml             |
| Temazepam            | 5.798 | 976711             | 3039.64              | 30.6            | 2558.40              | 51770             | 1034.4267 ng/ml            |
| Tramadol             | 4.213 | 8850898            | 17229.11             | 3.3             | 1720.86              | 538668            | 941.4022 ng/ml             |
| Trazodone            | 5.106 | 3611870            | 2145149.12           | 78.9            | 858985.38            | 158628            | 959.8499 ng/ml             |
| Venlafaxine          | 5.013 | 7060121            | 6566.76              | 35.6            | 1834.11              | 371832            | 1017.1193 ng/ml            |
| Zolpidem             | 4.878 | 10220602           | ∞                    | 30.3            | 193182.50            | 565126            | 923.5743 ng/ml             |

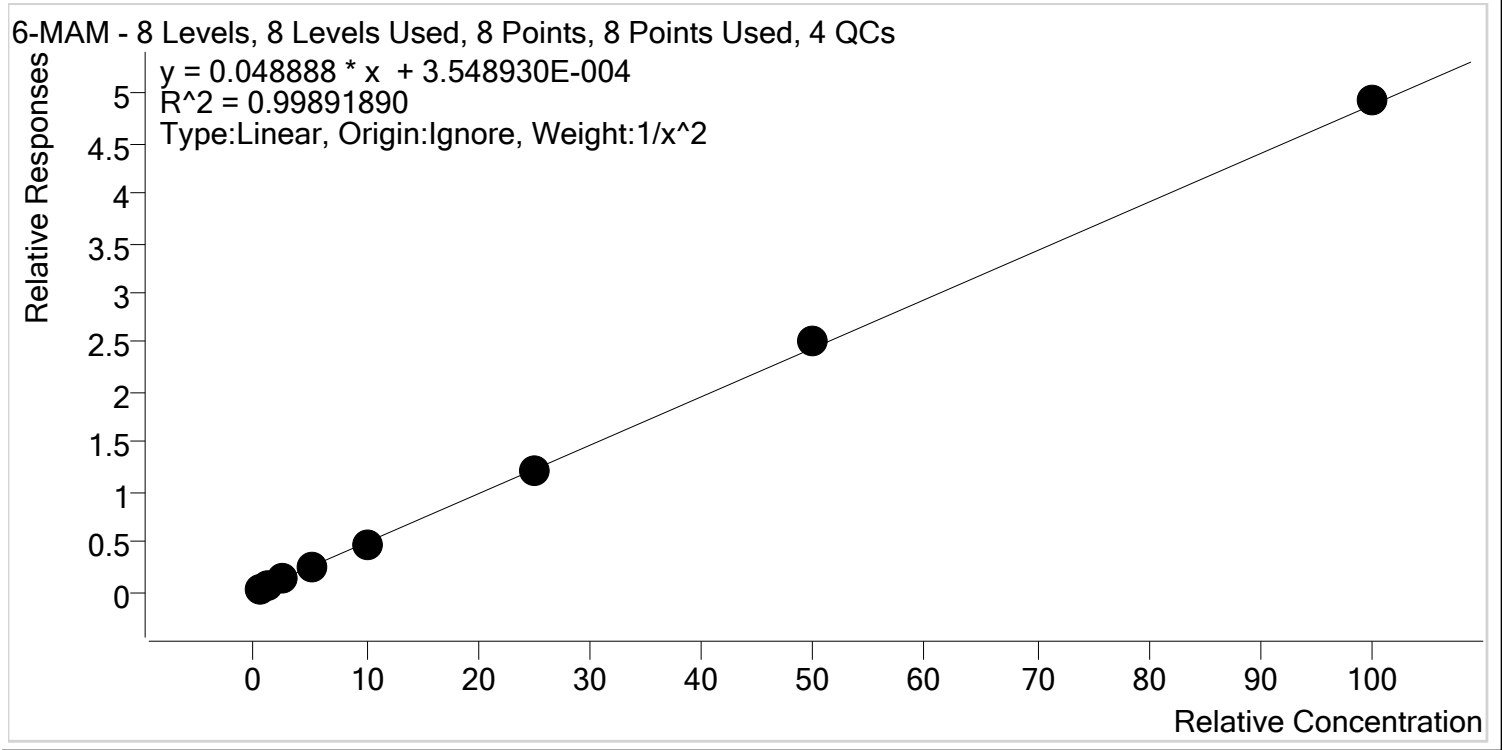
\*Outside curve range

\*\*Did not evaluate



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6



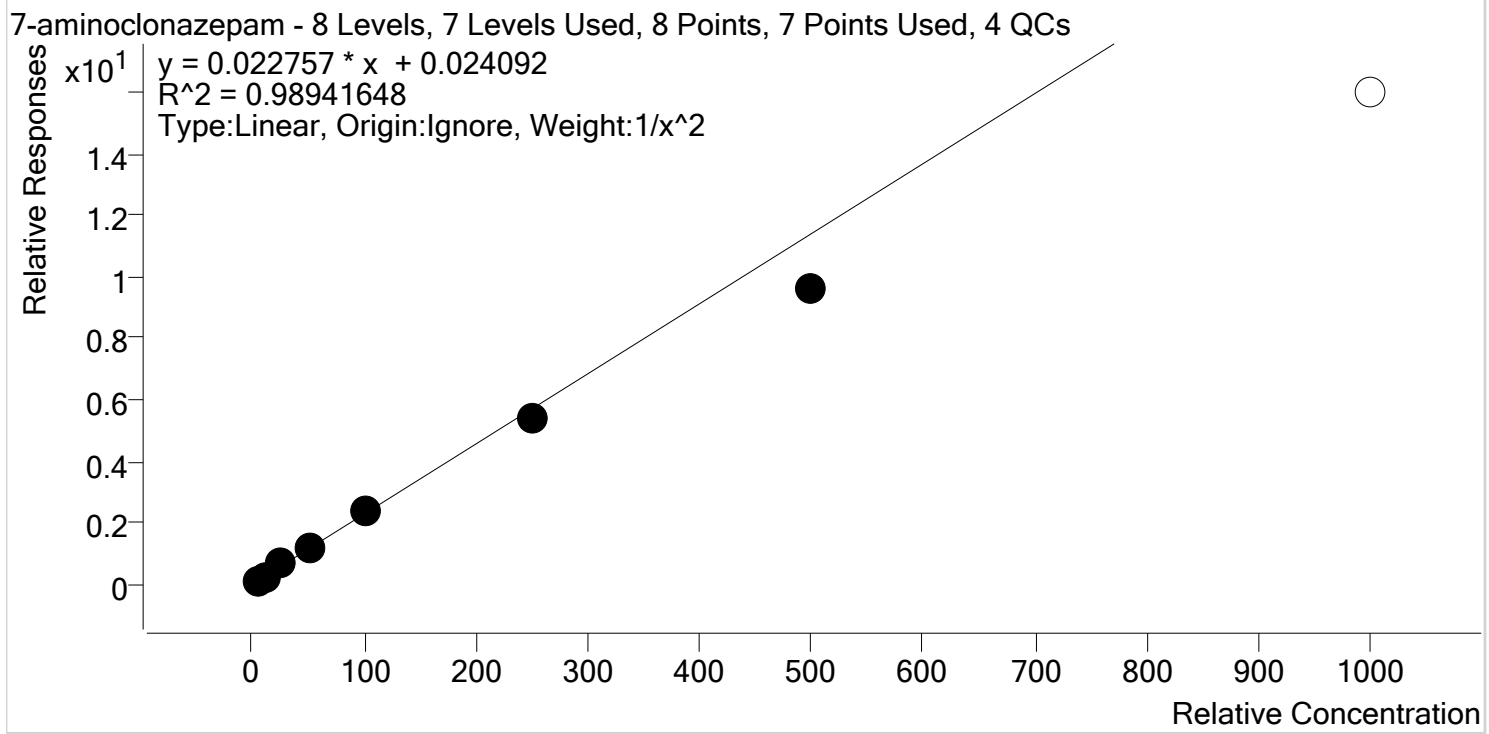
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 0.5                    | 0.5                 | 100.5    |
| p1 Cal 2- 10ng  | 2     | ✓       | 1.0                    | 1.0                 | 99.1     |
| p1 Cal 3 -25ng  | 3     | ✓       | 2.5                    | 2.5                 | 99.4     |
| p1 Cal 4-50ng   | 4     | ✓       | 5.0                    | 5.1                 | 102.8    |
| p1 Cal 5-100ng  | 5     | ✓       | 10.0                   | 9.4                 | 94.0     |
| p1 Cal 6-250ng  | 6     | ✓       | 25.0                   | 25.0                | 99.9     |
| p1 Cal 7-500ng  | 7     | ✓       | 50.0                   | 51.7                | 103.3    |
| p1 Cal 8-1000ng | 8     | ✓       | 100.0                  | 100.9               | 100.9    |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



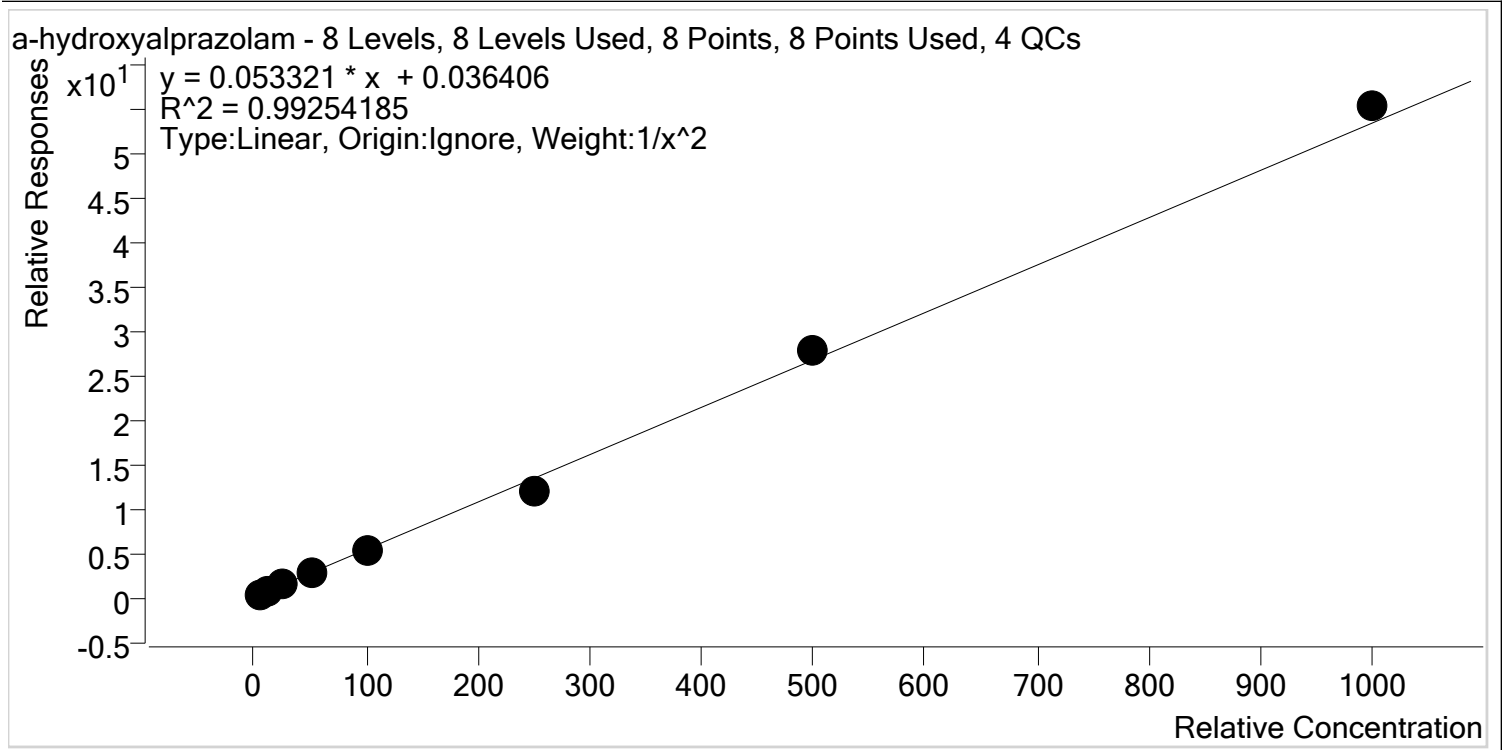
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 95.7     |
| p1 Cal 2- 10ng  | 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                   | 53.6                | 107.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 102.8               | 102.8    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 238.6               | 95.4     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 424.5               | 84.9     |
| p1 Cal 8-1000ng | 8     | ✗       | 1000.0                 | 701.4               | 70.1     |

\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

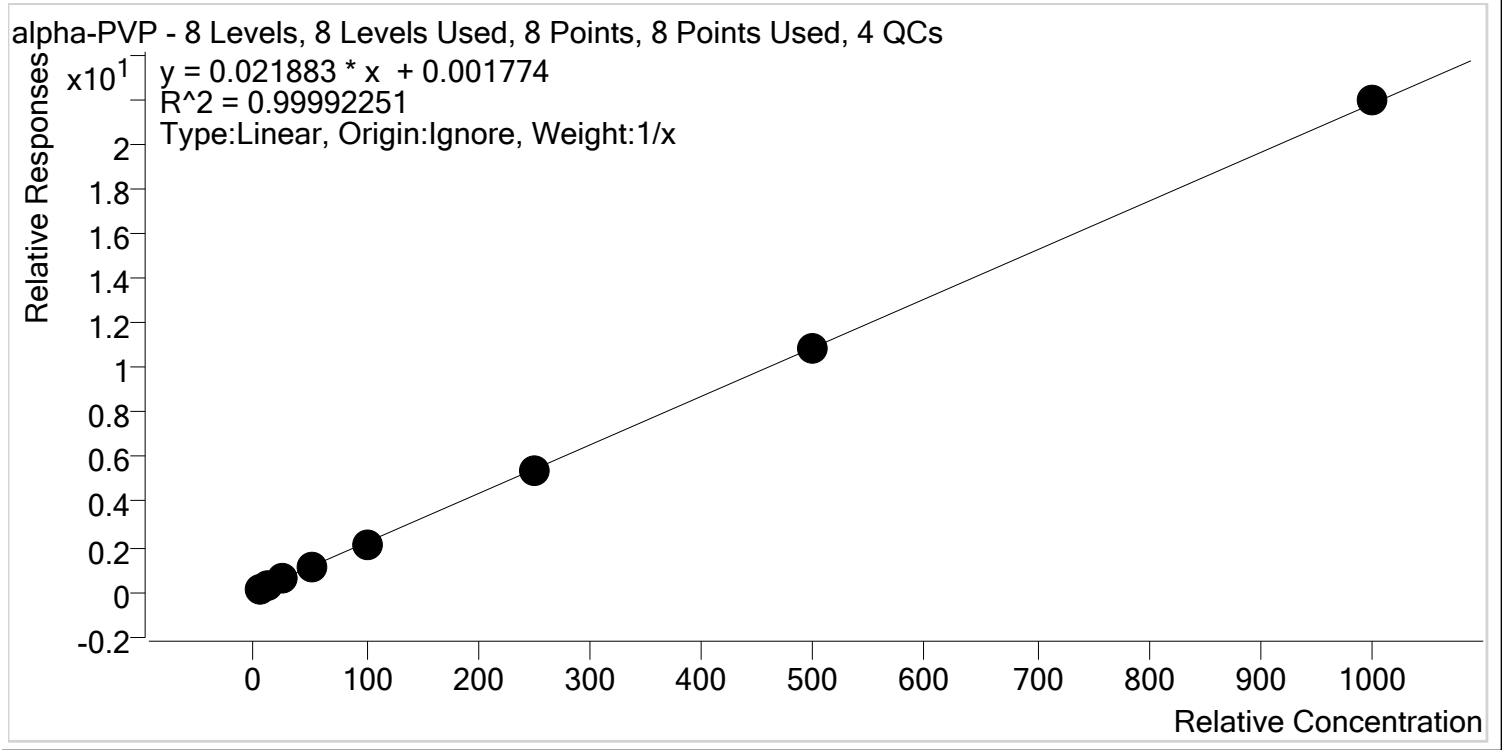


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 102.3    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.1                 | 90.9     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 27.9                | 111.5    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.5                | 103.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 96.1                | 96.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 222.0               | 88.8     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 518.7               | 103.7    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1035.5              | 103.5    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8



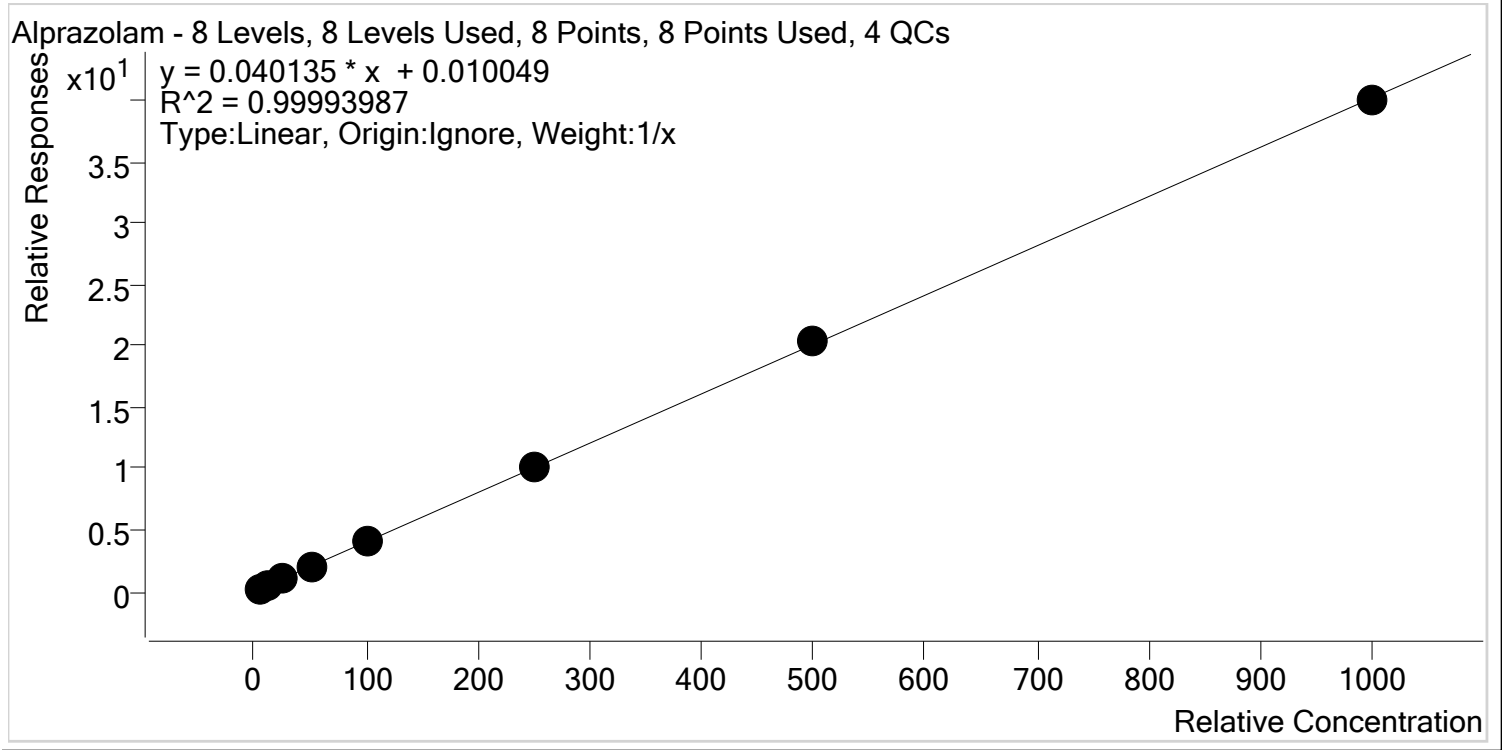
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 102.8    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 101.5    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.5                | 98.0     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.0                | 99.9     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.0                | 98.0     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 249.8               | 99.9     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 495.7               | 99.1     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1006.7              | 100.7    |

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

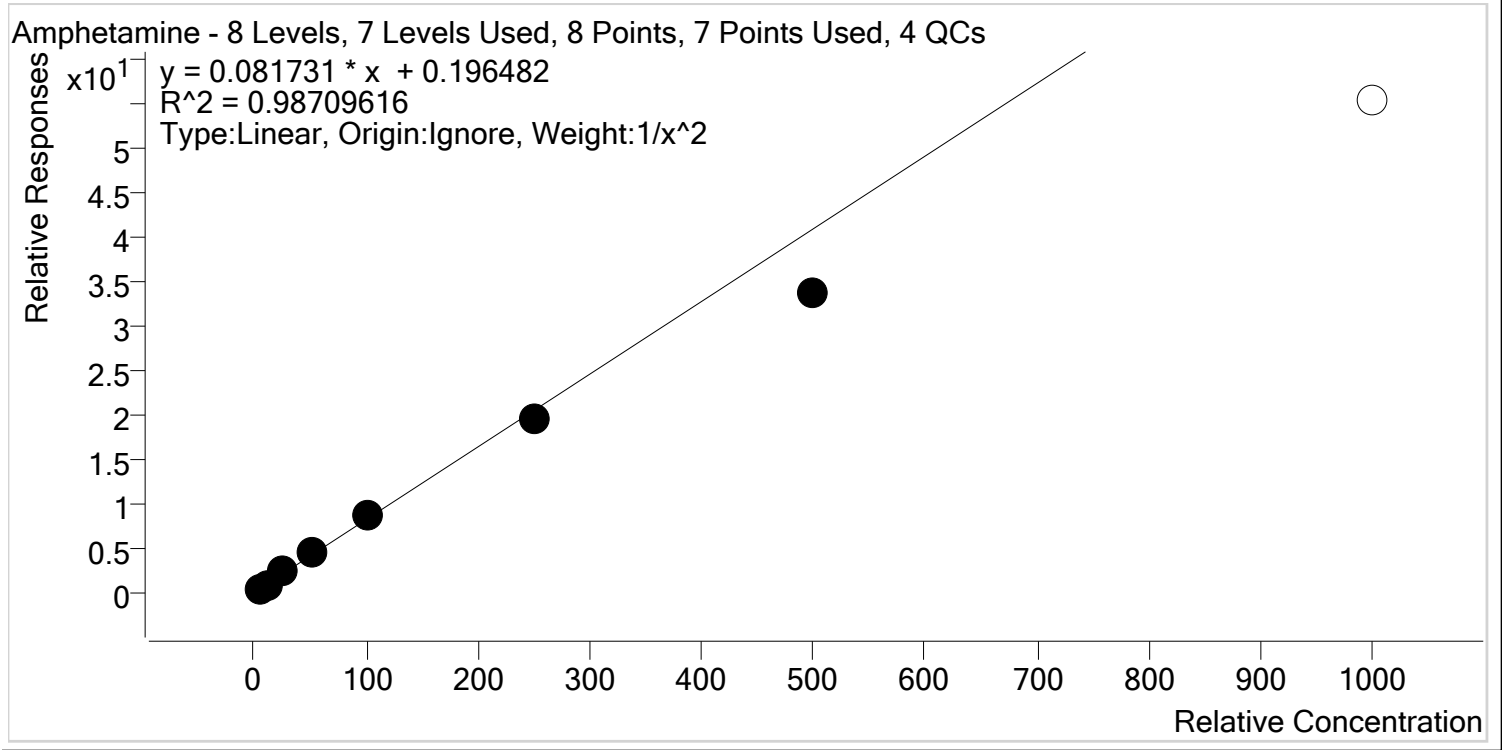


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 100.2    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.7                 | 97.2     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.2                | 100.8    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.0                | 101.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 99.1                | 99.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 251.8               | 100.7    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 503.7               | 100.7    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 994.6               | 99.5     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

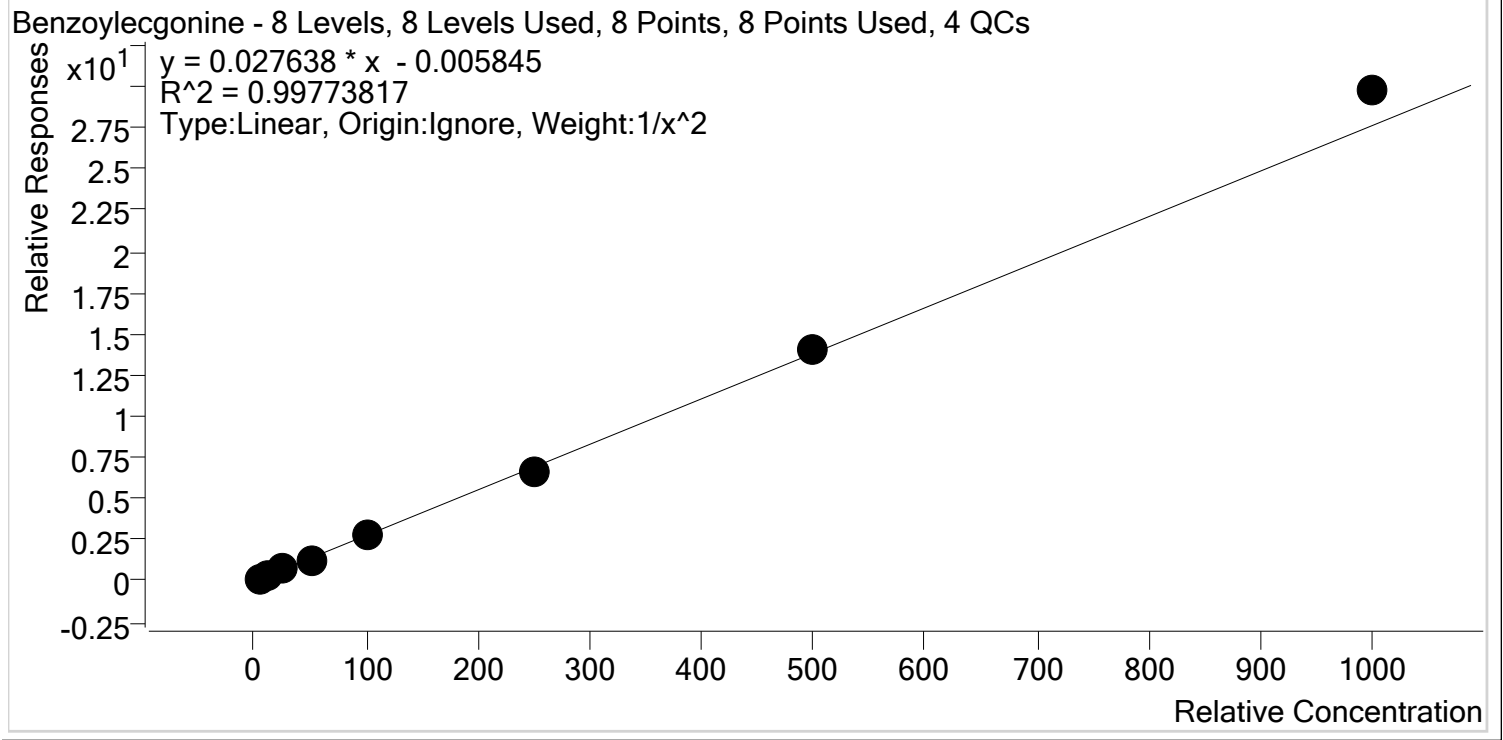


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 97.3     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 99.4     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 27.4                | 109.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 55.8                | 111.7    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 103.6               | 103.6    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 238.9               | 95.6     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 414.5               | 82.9     |
| p1 Cal 8-1000ng | 8     | ✗       | 1000.0                 | 676.4               | 67.6     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

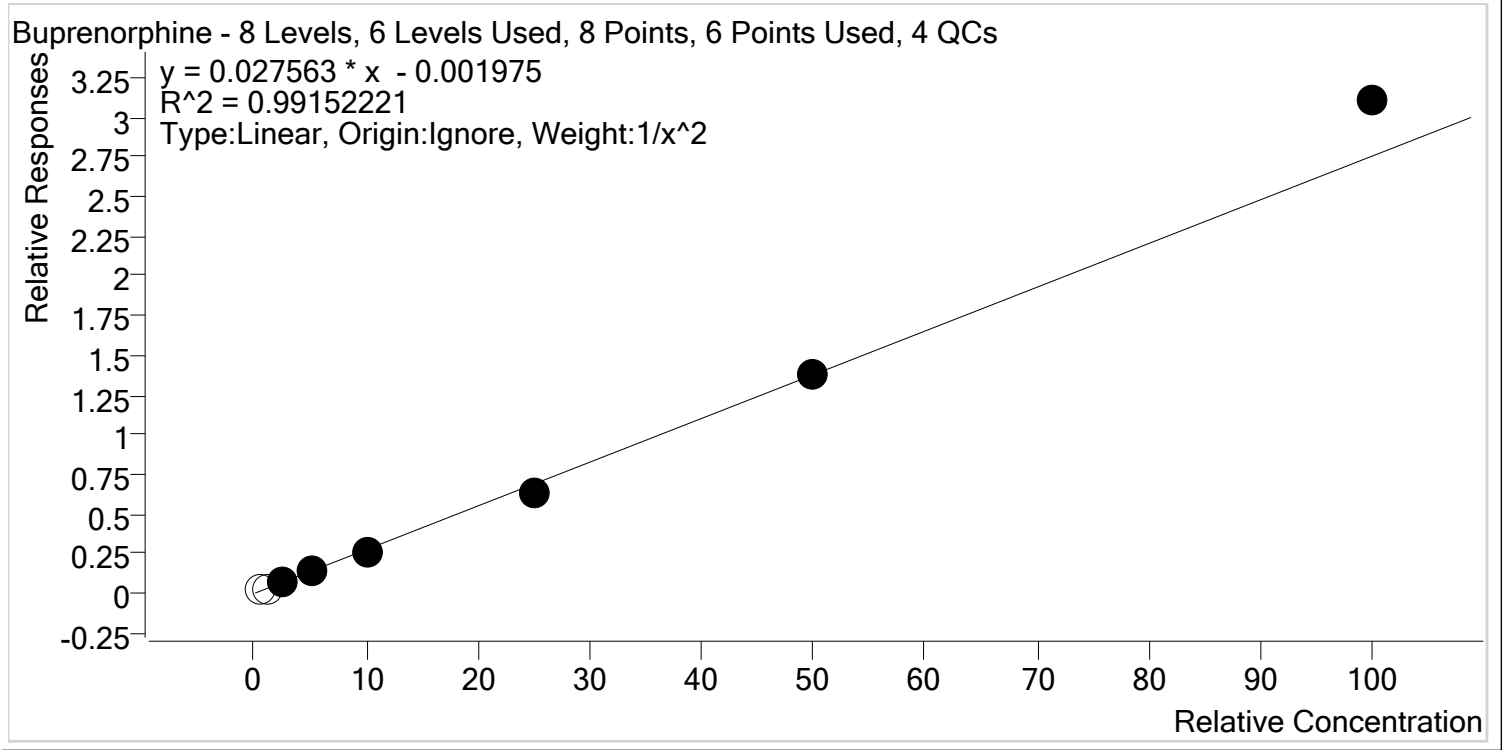


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.5     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.4                | 103.6    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.1                | 96.3     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 48.0                | 96.0     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.2                | 98.2     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 242.1               | 96.8     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 510.2               | 102.0    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1076.9              | 107.7    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

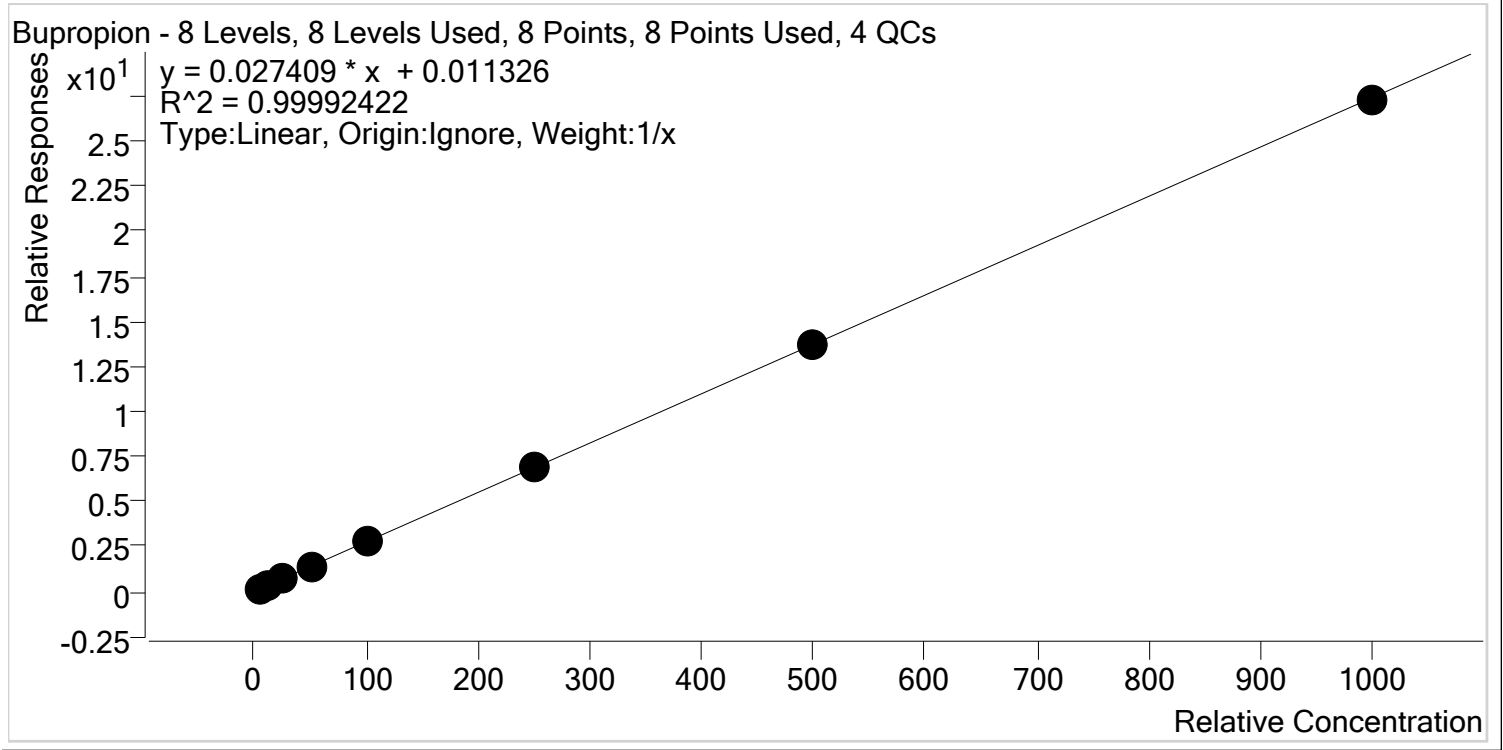


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | x       | 0.5                    | 1.1                 | 214.7    |
| p1 Cal 2- 10ng  | 2     | x       | 1.0                    | 1.1                 | 106.9    |
| p1 Cal 3 -25ng  | 3     | ✓       | 2.5                    | 2.6                 | 103.1    |
| p1 Cal 4-50ng   | 4     | ✓       | 5.0                    | 4.9                 | 97.6     |
| p1 Cal 5-100ng  | 5     | ✓       | 10.0                   | 9.4                 | 94.2     |
| p1 Cal 6-250ng  | 6     | ✓       | 25.0                   | 23.0                | 92.0     |
| p1 Cal 7-500ng  | 7     | ✓       | 50.0                   | 50.2                | 100.4    |
| p1 Cal 8-1000ng | 8     | ✓       | 100.0                  | 112.7               | 112.7    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



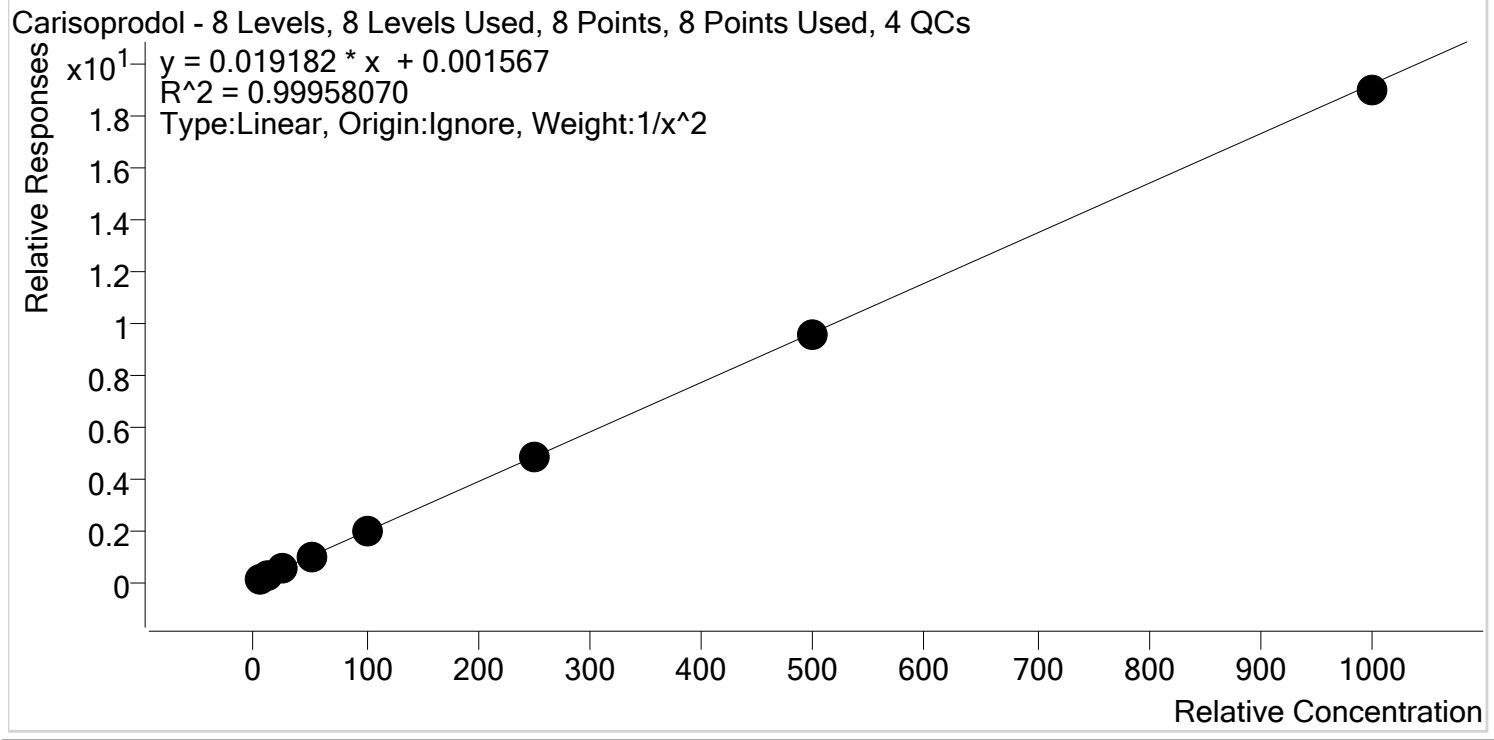
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.6     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.7                 | 97.5     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.1                | 100.3    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.1                | 102.2    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.3               | 100.3    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 254.1               | 101.6    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 500.7               | 100.1    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 994.1               | 99.4     |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

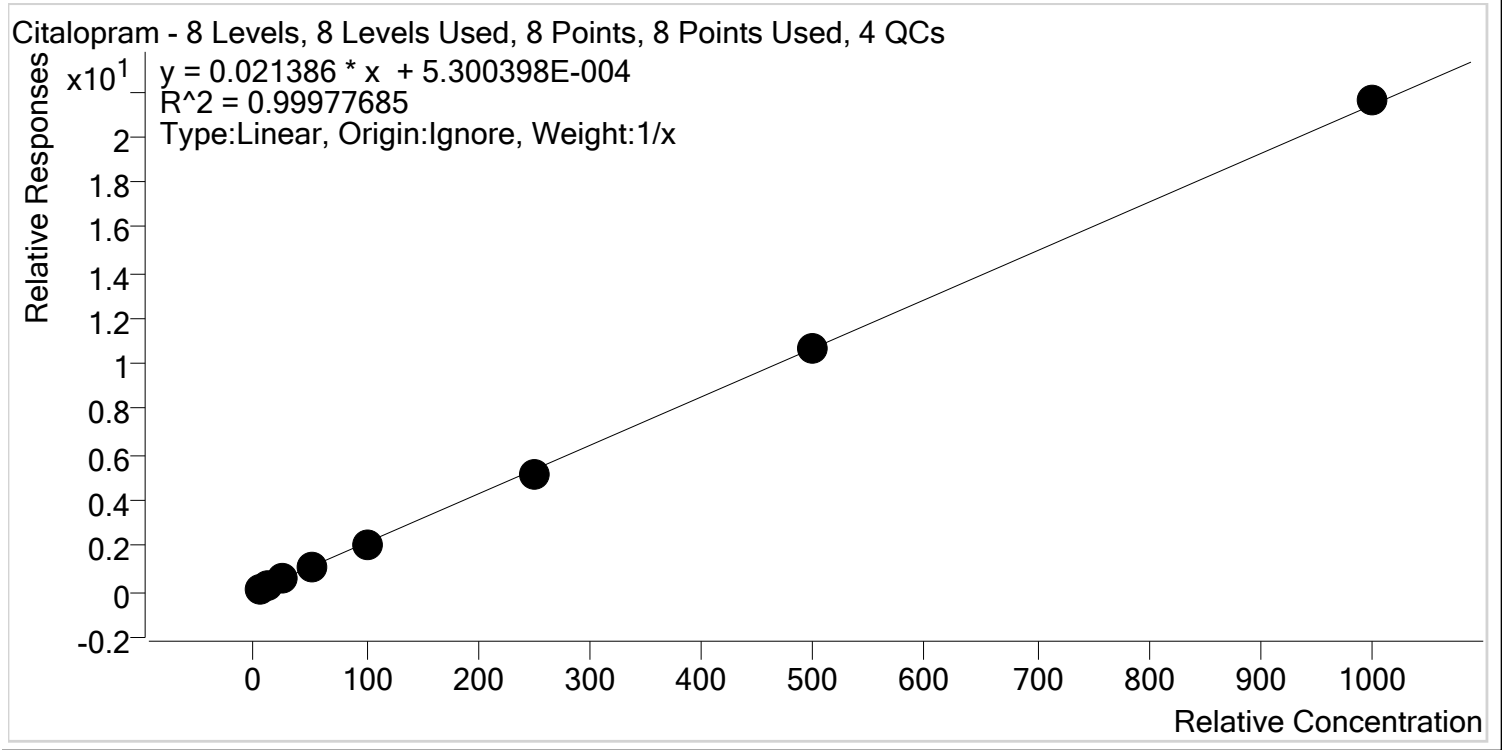


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 100.1    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 98.9     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.3                | 101.3    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.4                | 102.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 97.2                | 97.2     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 252.8               | 101.1    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 498.9               | 99.8     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 986.9               | 98.7     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

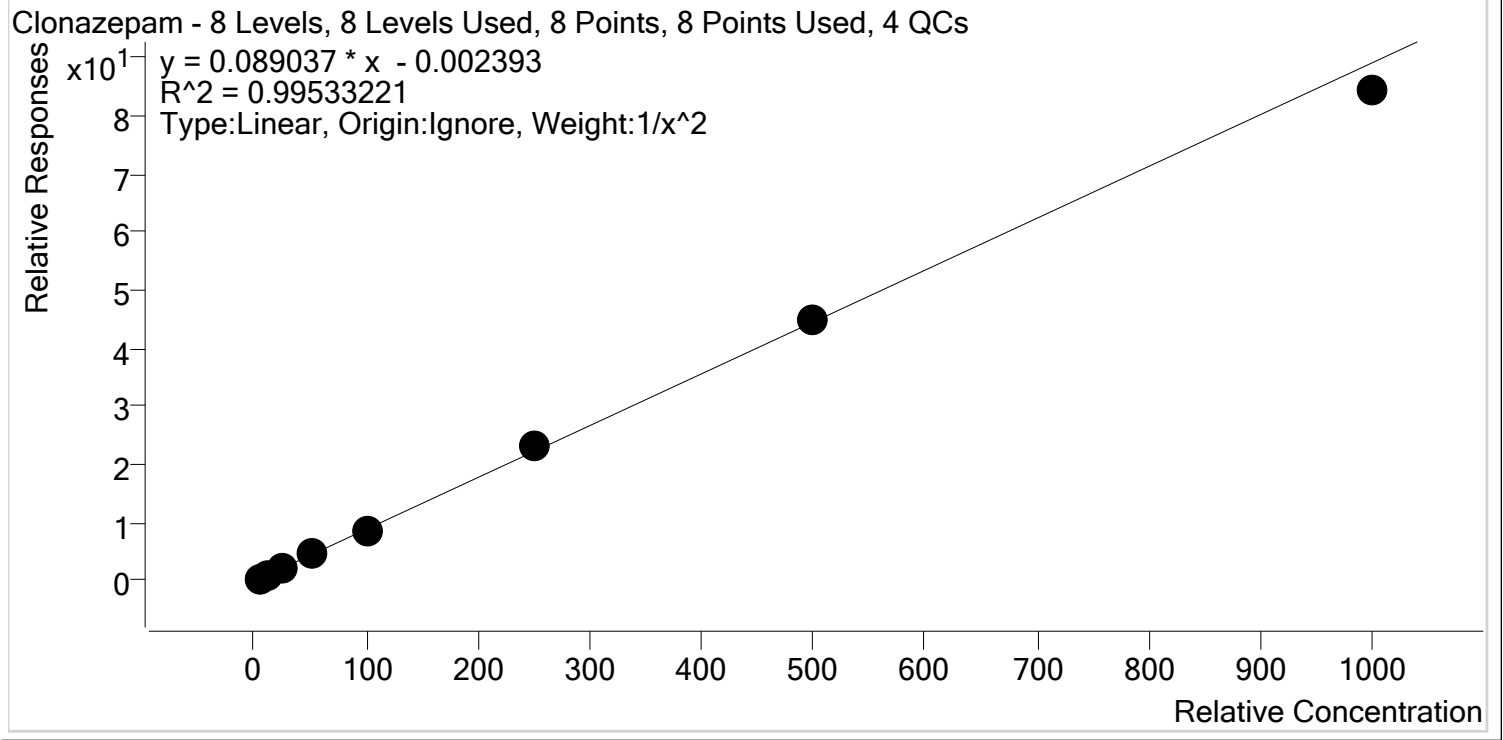


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.3                 | 105.8    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 100.6    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.3                | 97.1     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.7                | 101.4    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 96.6                | 96.6     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 244.0               | 97.6     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 499.9               | 100.0    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1009.2              | 100.9    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4



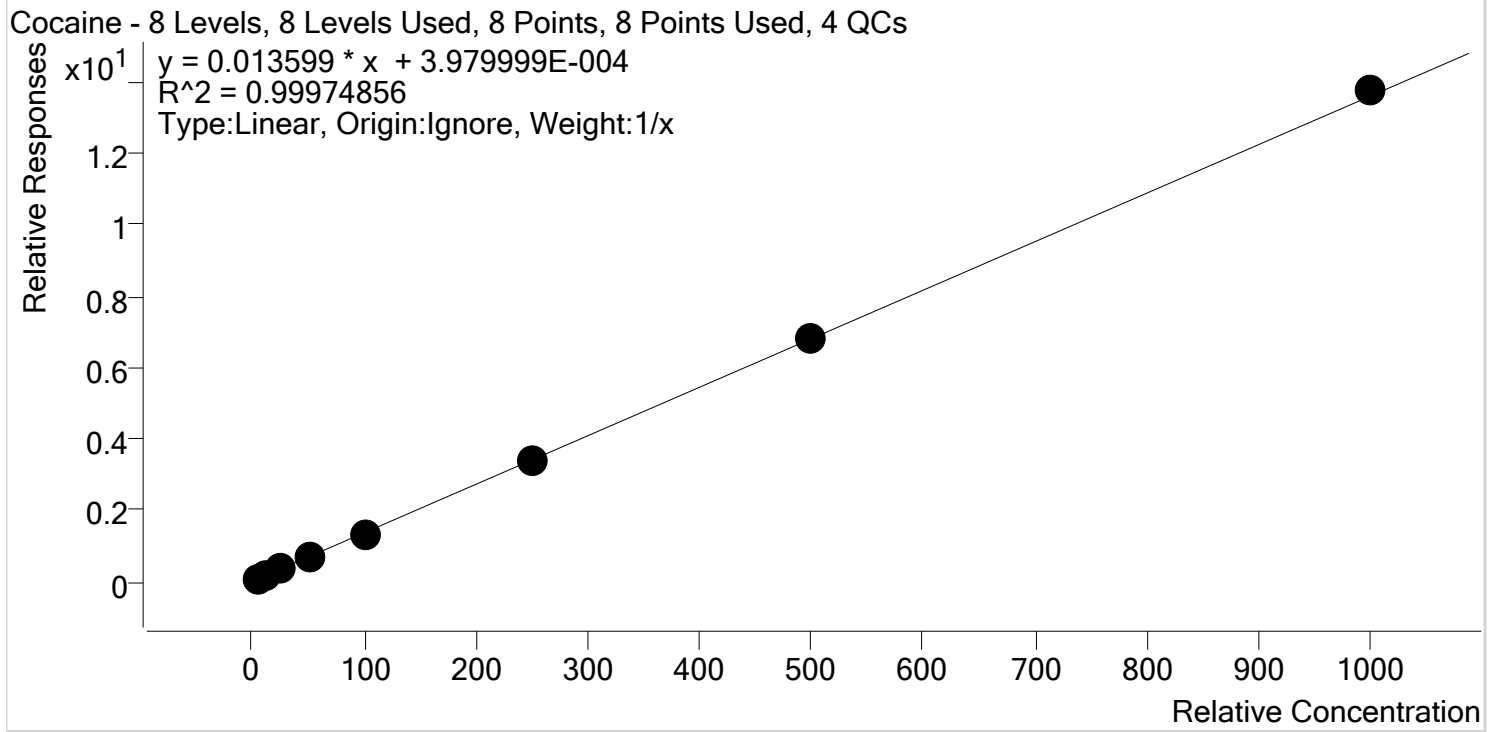
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.7                 | 94.8     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 11.2                | 111.8    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.0                | 96.1     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.0                | 102.0    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 96.1                | 96.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 260.6               | 104.2    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 501.2               | 100.2    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 946.4               | 94.6     |

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

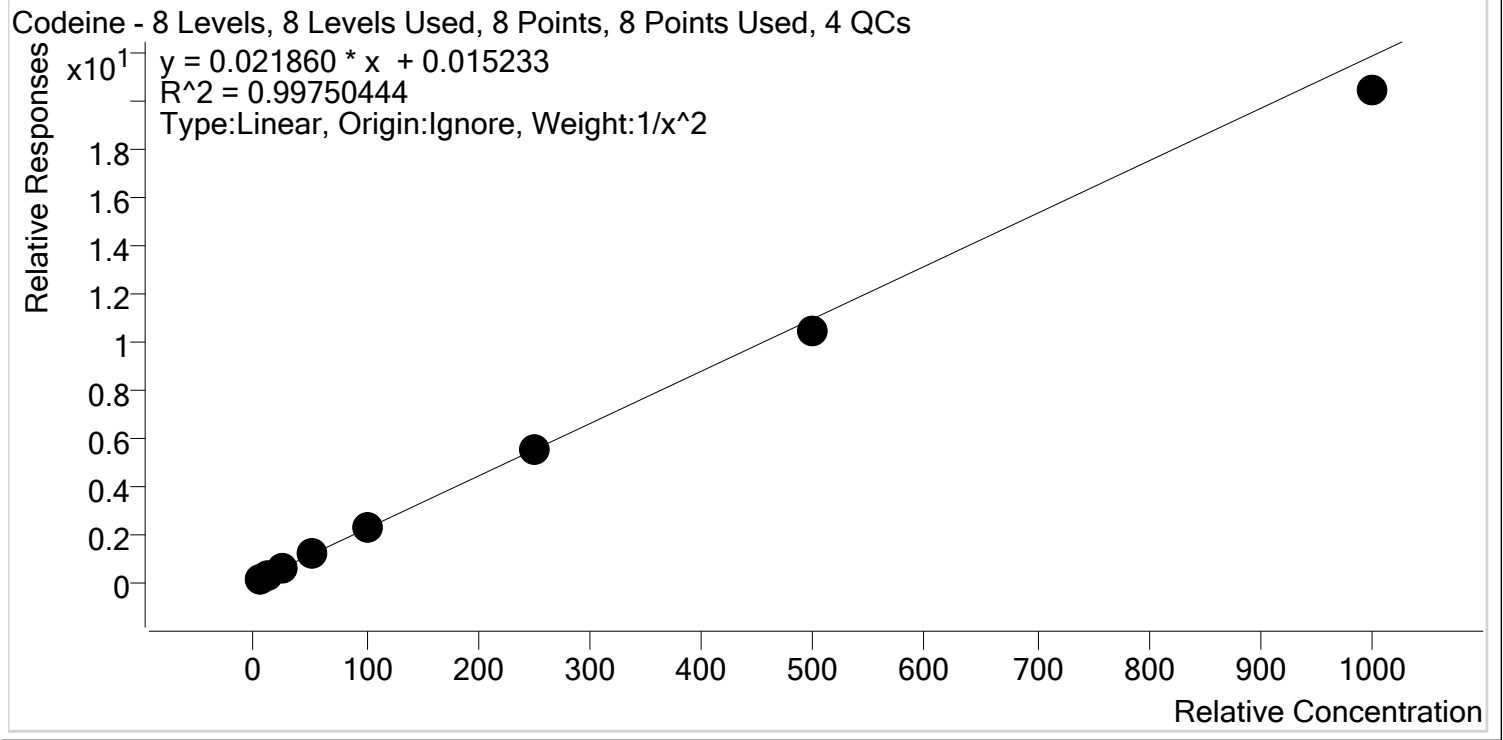


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.3                 | 106.2    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.3                | 102.7    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.1                | 96.4     |
| 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                  | 245.3               | 98.1     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 497.4               | 99.5     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1011.6              | 101.2    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 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                   | 25.4                | 101.7    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 53.4                | 106.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 103.6               | 103.6    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 248.7               | 99.5     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 477.3               | 95.5     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 934.1               | 93.4     |

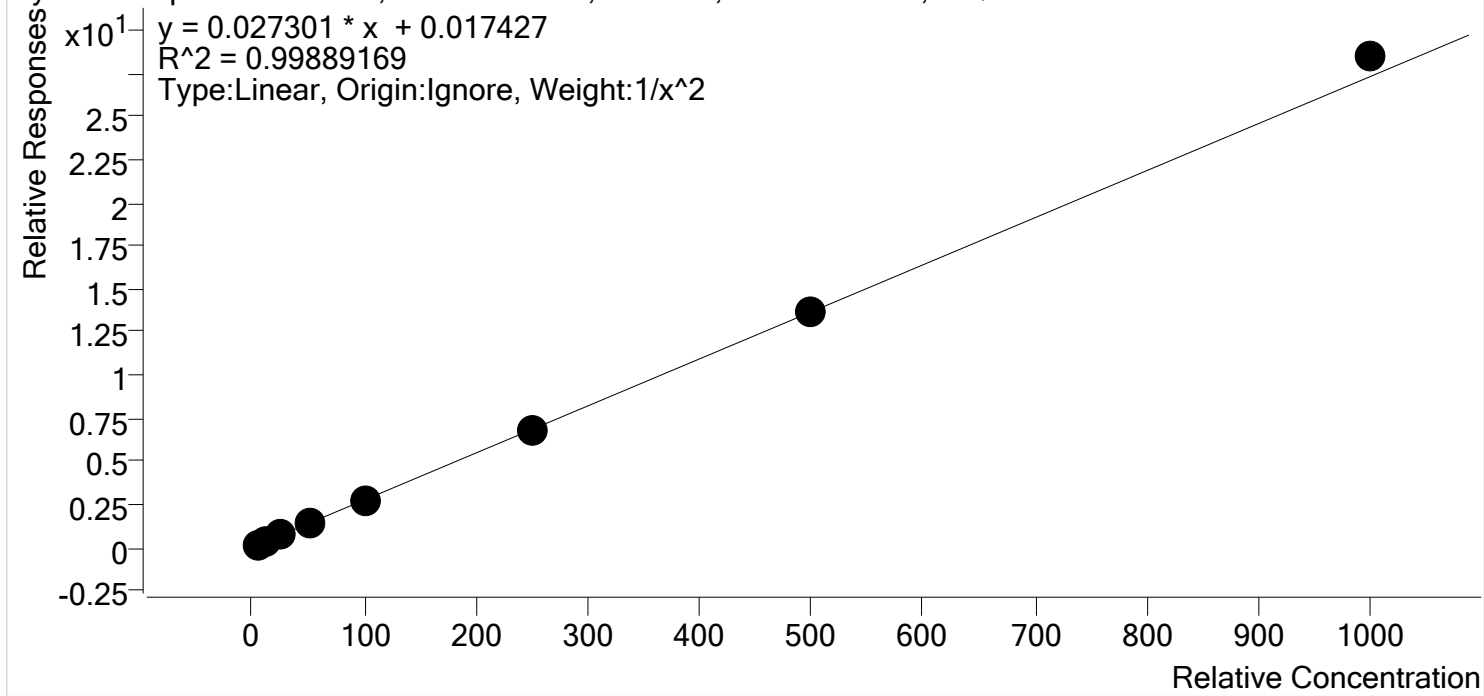
\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

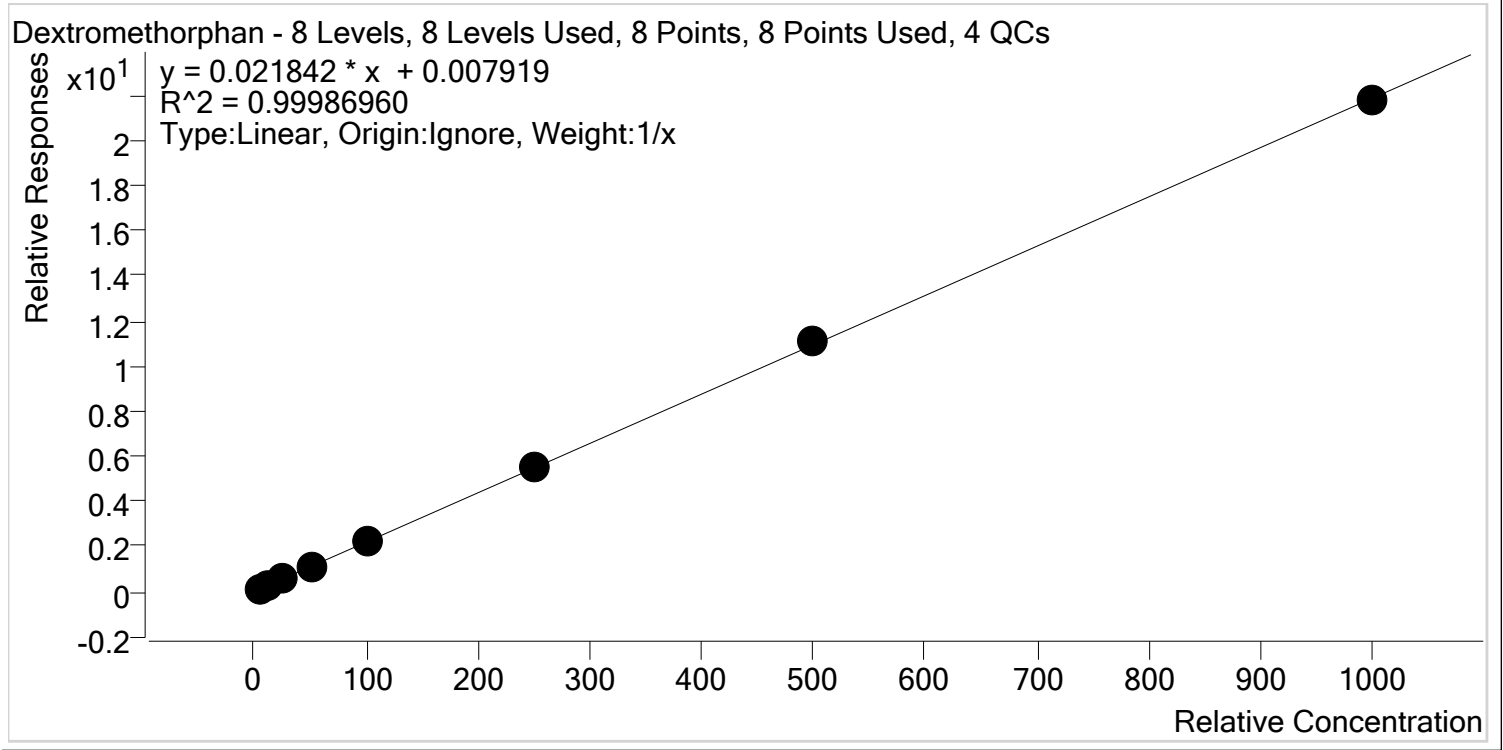


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 101.1    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 99.6     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 23.7                | 94.8     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.3                | 102.5    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 97.7                | 97.7     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 248.3               | 99.3     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 503.3               | 100.7    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1042.5              | 104.3    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.5                 | 109.4    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.4                 | 94.1     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.5                | 97.8     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 49.5                | 99.1     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.3                | 98.3     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 250.9               | 100.4    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 506.4               | 101.3    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 995.4               | 99.5     |

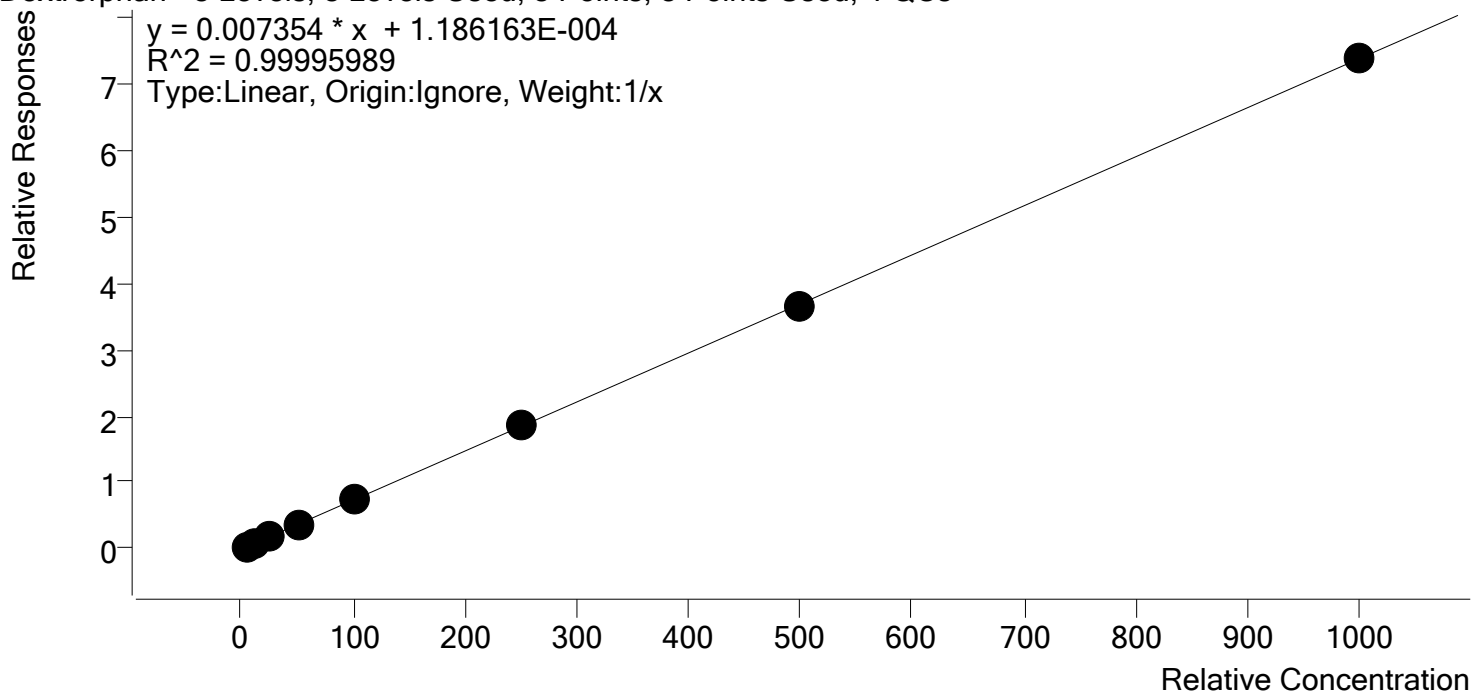
S



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Dextrophan Internal Standard Dextrophan-D3

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



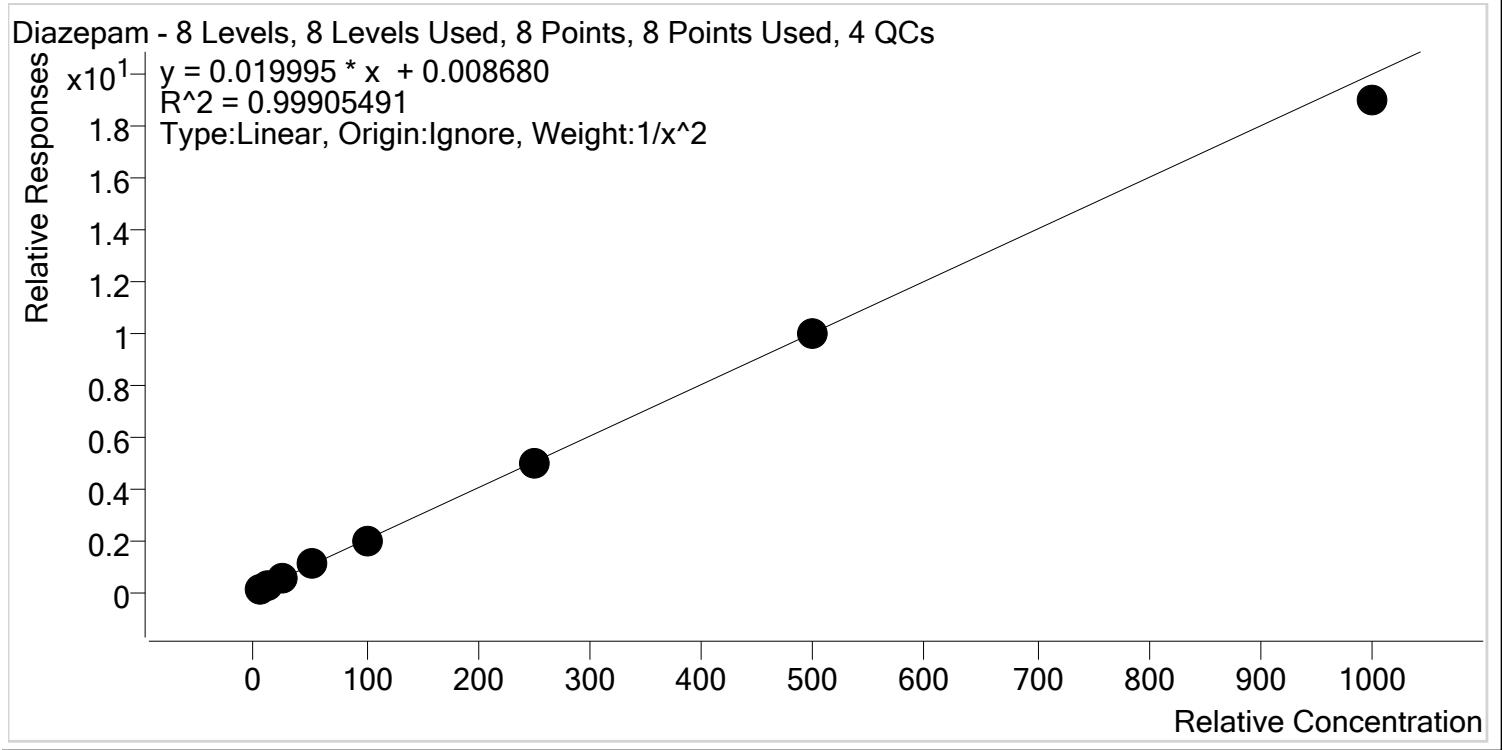
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.4     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 101.3    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.0                | 99.9     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.7                | 101.5    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.2                | 98.2     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 252.2               | 100.9    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 498.5               | 99.7     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1000.3              | 100.0    |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.1     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 100.7    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.1                | 100.4    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.4                | 104.7    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.3               | 100.3    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 249.7               | 99.9     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 499.7               | 99.9     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 949.0               | 94.9     |

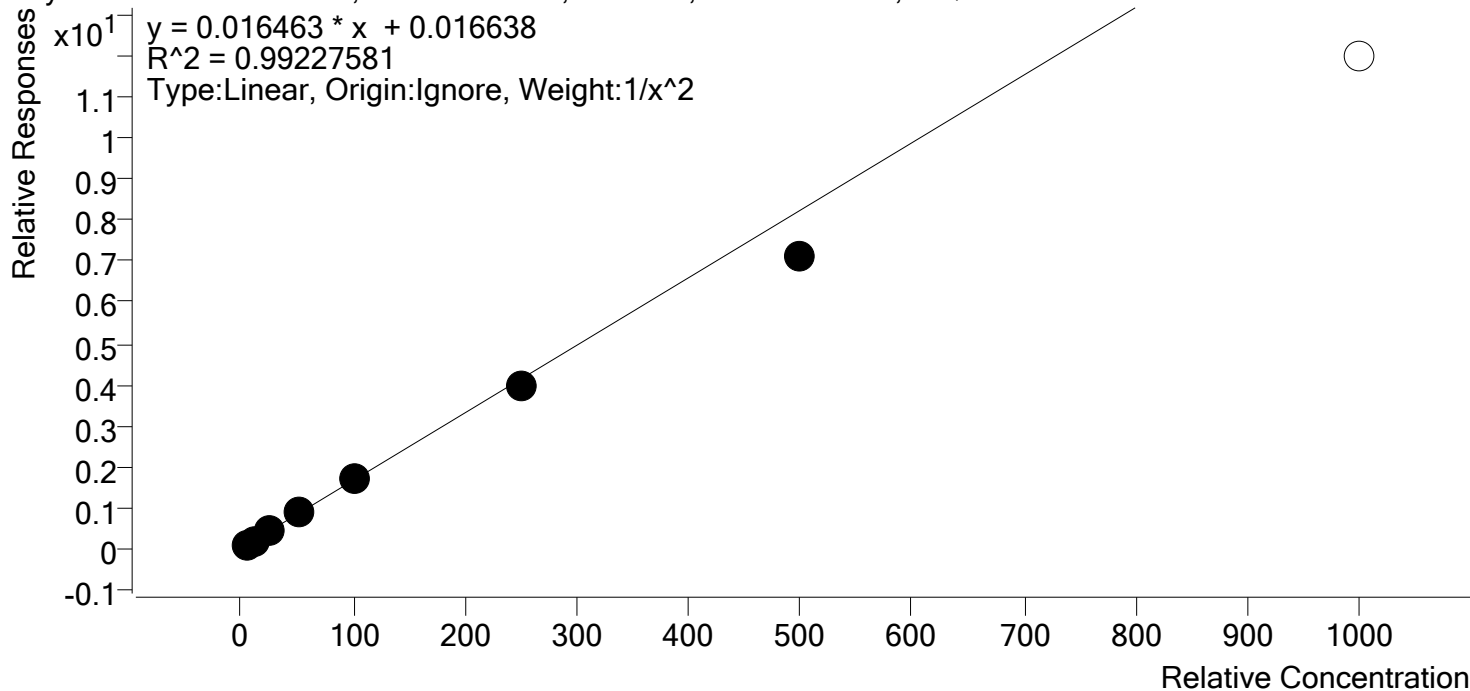
\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

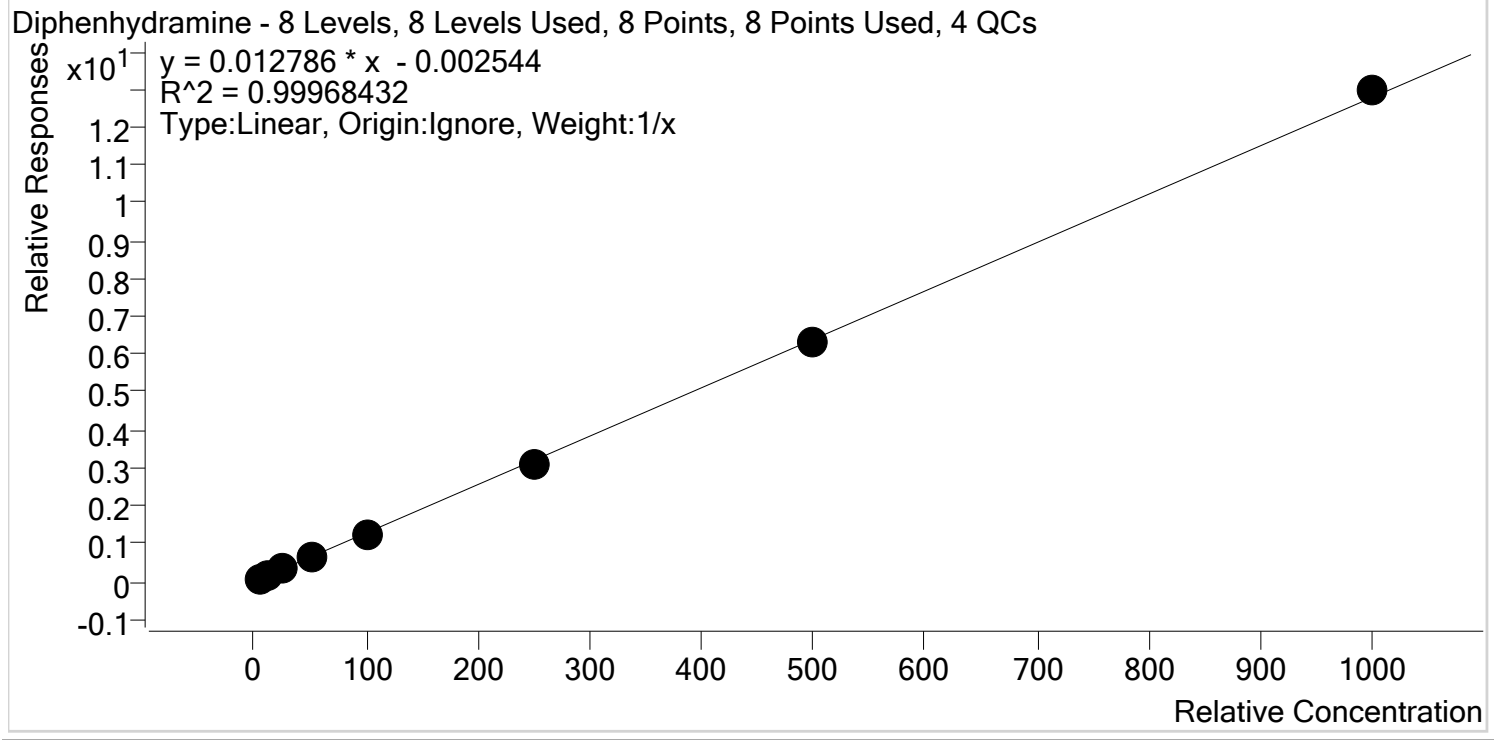


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 96.6     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.3                | 102.6    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 26.7                | 106.8    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 54.4                | 108.8    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 101.9               | 101.9    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 241.2               | 96.5     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 433.9               | 86.8     |
| p1 Cal 8-1000ng | 8     | ✗       | 1000.0                 | 727.4               | 72.7     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

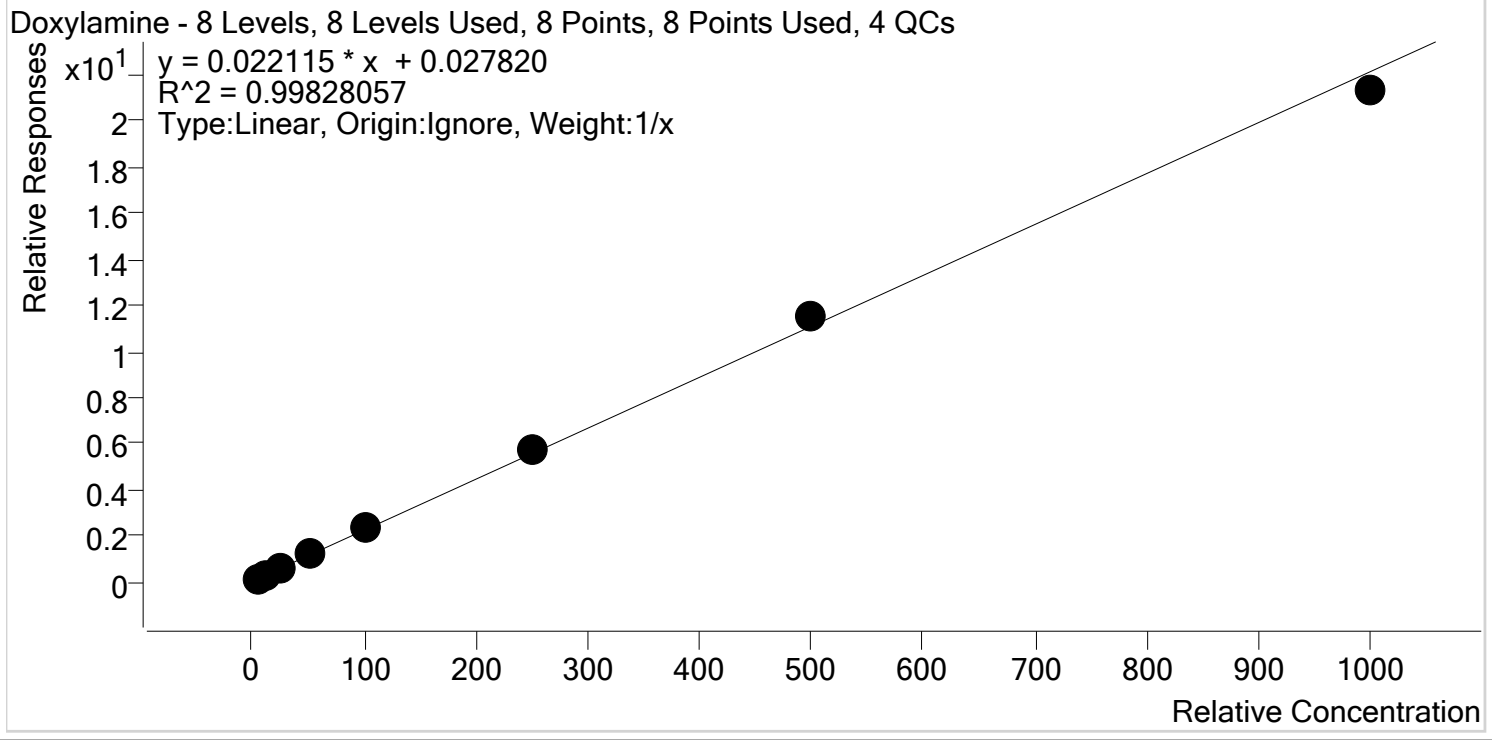


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.4                 | 107.9    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 100.5    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.6                | 98.5     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 49.3                | 98.7     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 95.8                | 95.8     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 244.9               | 98.0     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 495.6               | 99.1     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1014.1              | 101.4    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

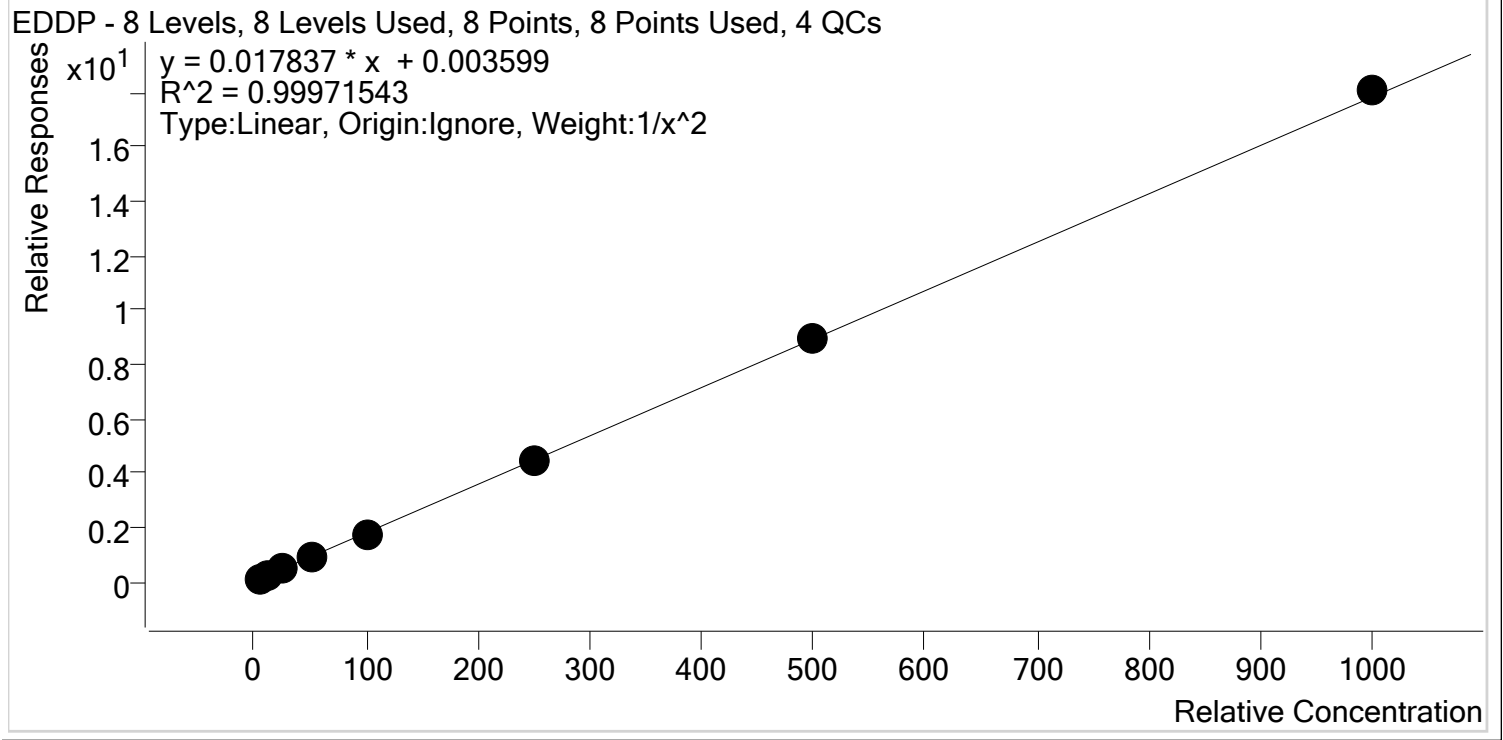


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.6                 | 91.5     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.6                 | 96.1     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.3                | 101.2    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.0                | 103.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 102.1               | 102.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 261.3               | 104.5    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 522.2               | 104.4    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 962.9               | 96.3     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

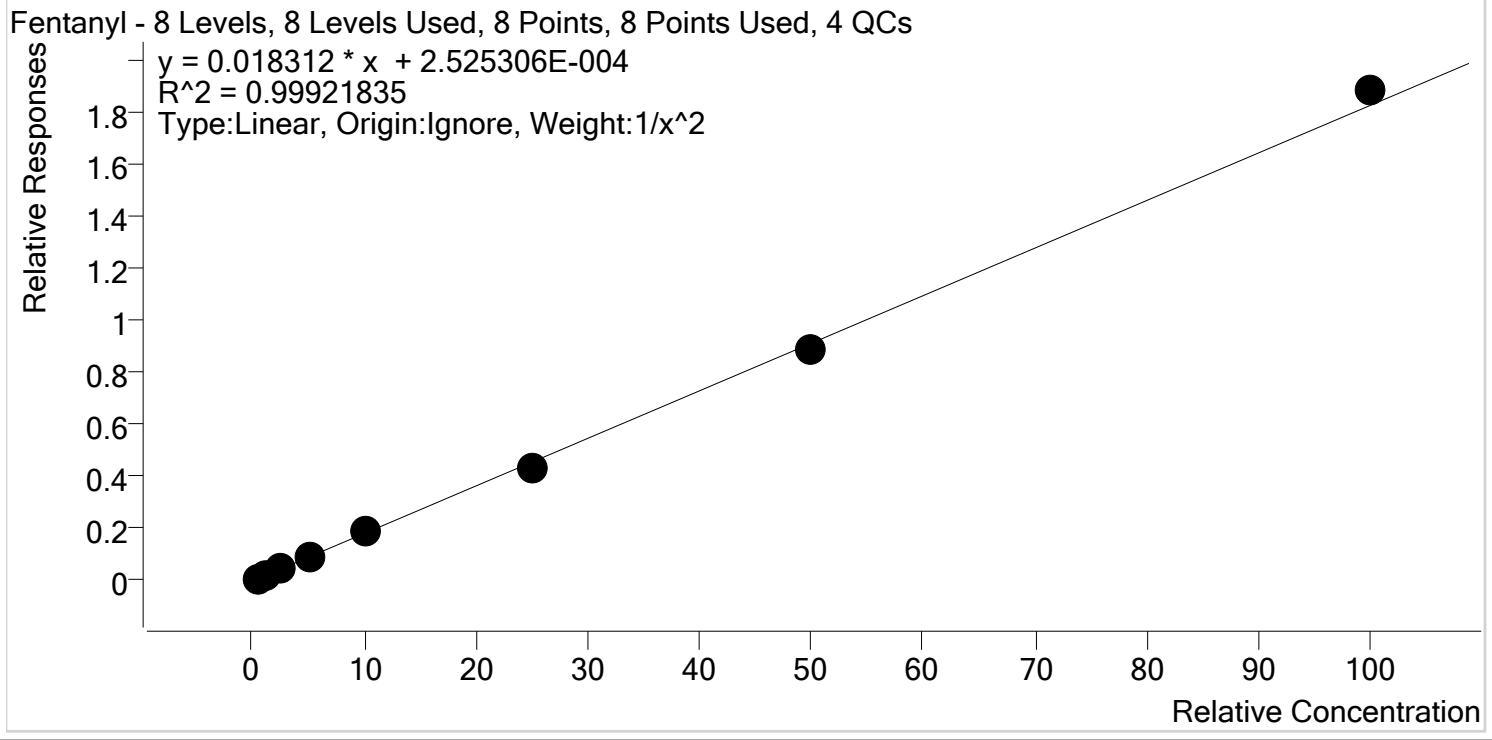


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 100.1    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 100.6    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.3                | 97.4     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.0                | 102.0    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.7                | 98.7     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 250.9               | 100.3    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 497.9               | 99.6     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1013.5              | 101.4    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5



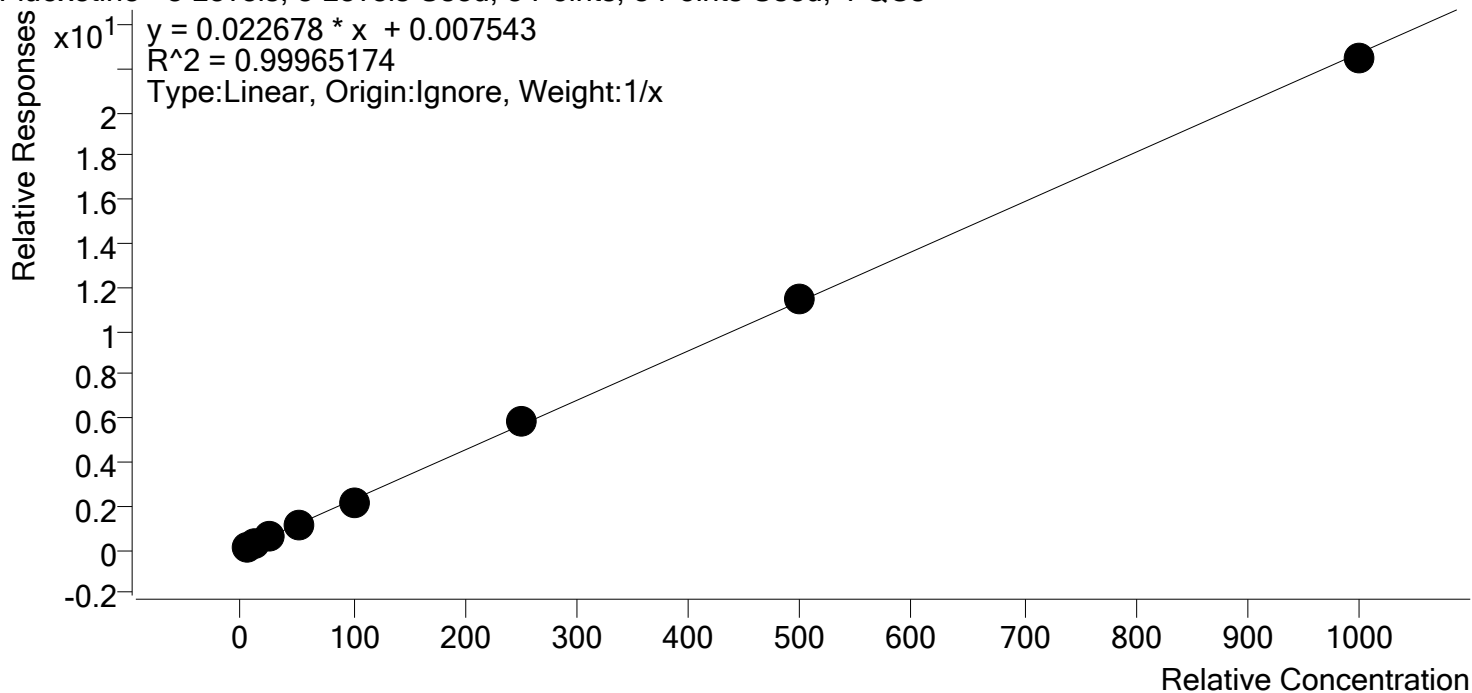
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 0.5                    | 0.5                 | 99.4     |
| p1 Cal 2- 10ng  | 2     | ✓       | 1.0                    | 1.0                 | 101.3    |
| p1 Cal 3 -25ng  | 3     | ✓       | 2.5                    | 2.5                 | 98.9     |
| p1 Cal 4-50ng   | 4     | ✓       | 5.0                    | 5.0                 | 100.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 10.0                   | 10.3                | 102.5    |
| p1 Cal 6-250ng  | 6     | ✓       | 25.0                   | 24.0                | 96.0     |
| p1 Cal 7-500ng  | 7     | ✓       | 50.0                   | 48.9                | 97.8     |
| p1 Cal 8-1000ng | 8     | ✓       | 100.0                  | 103.1               | 103.1    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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



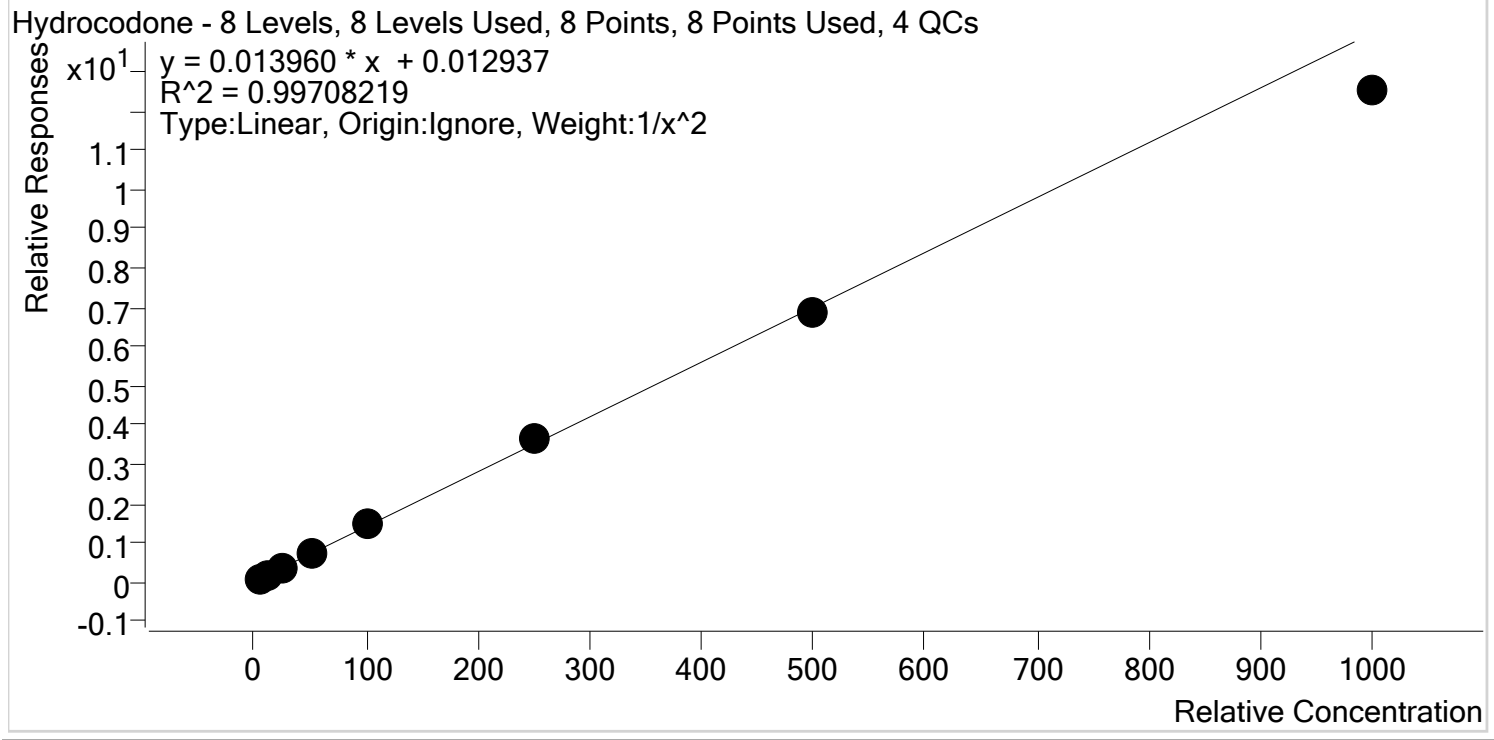
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.7     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.8                 | 98.5     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.9                | 99.6     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.7                | 103.4    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 95.9                | 95.9     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 256.5               | 102.6    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 507.1               | 101.4    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 989.1               | 98.9     |

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6



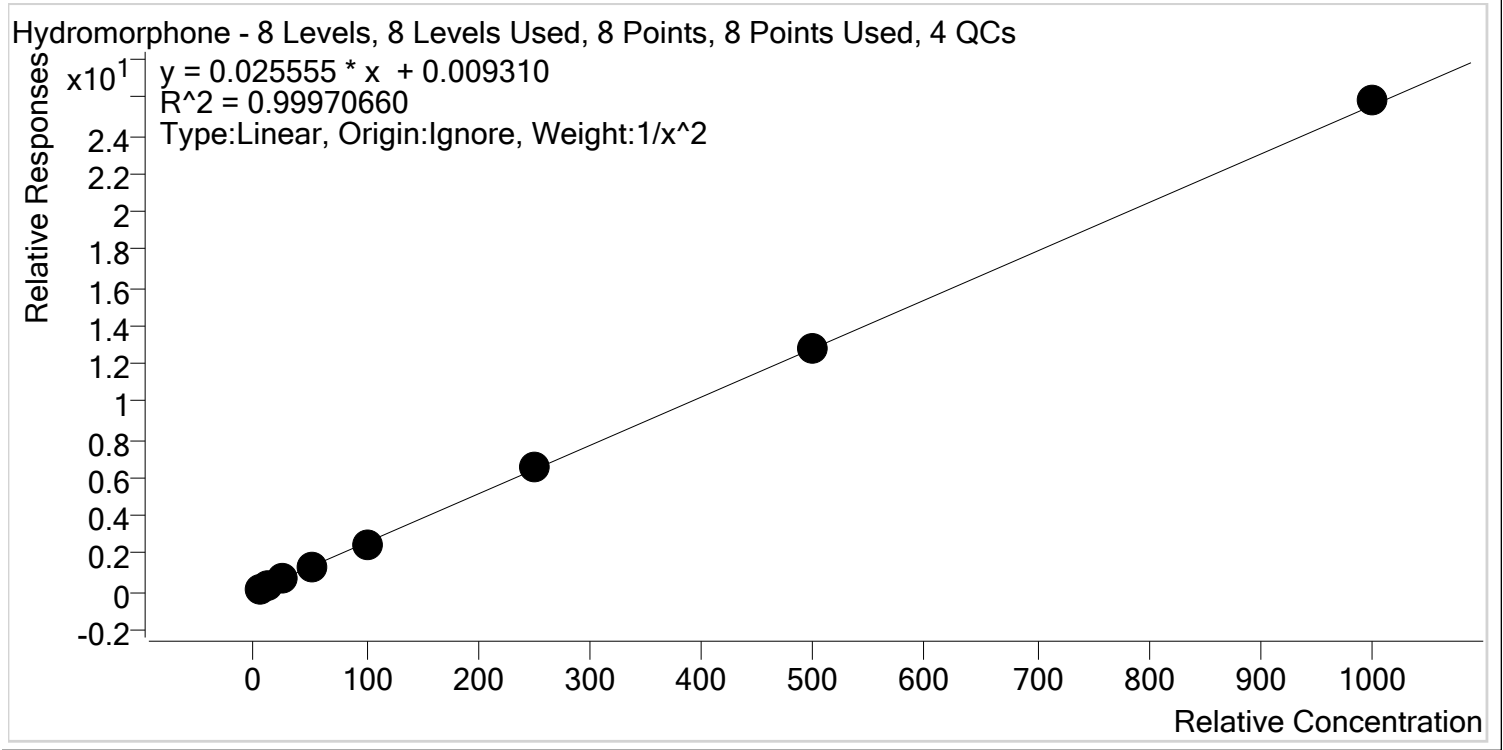
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.1     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.2                | 101.8    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.7                | 102.9    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.6                | 103.2    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 102.0               | 102.0    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 259.1               | 103.7    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 494.0               | 98.8     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 895.2               | 89.5     |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

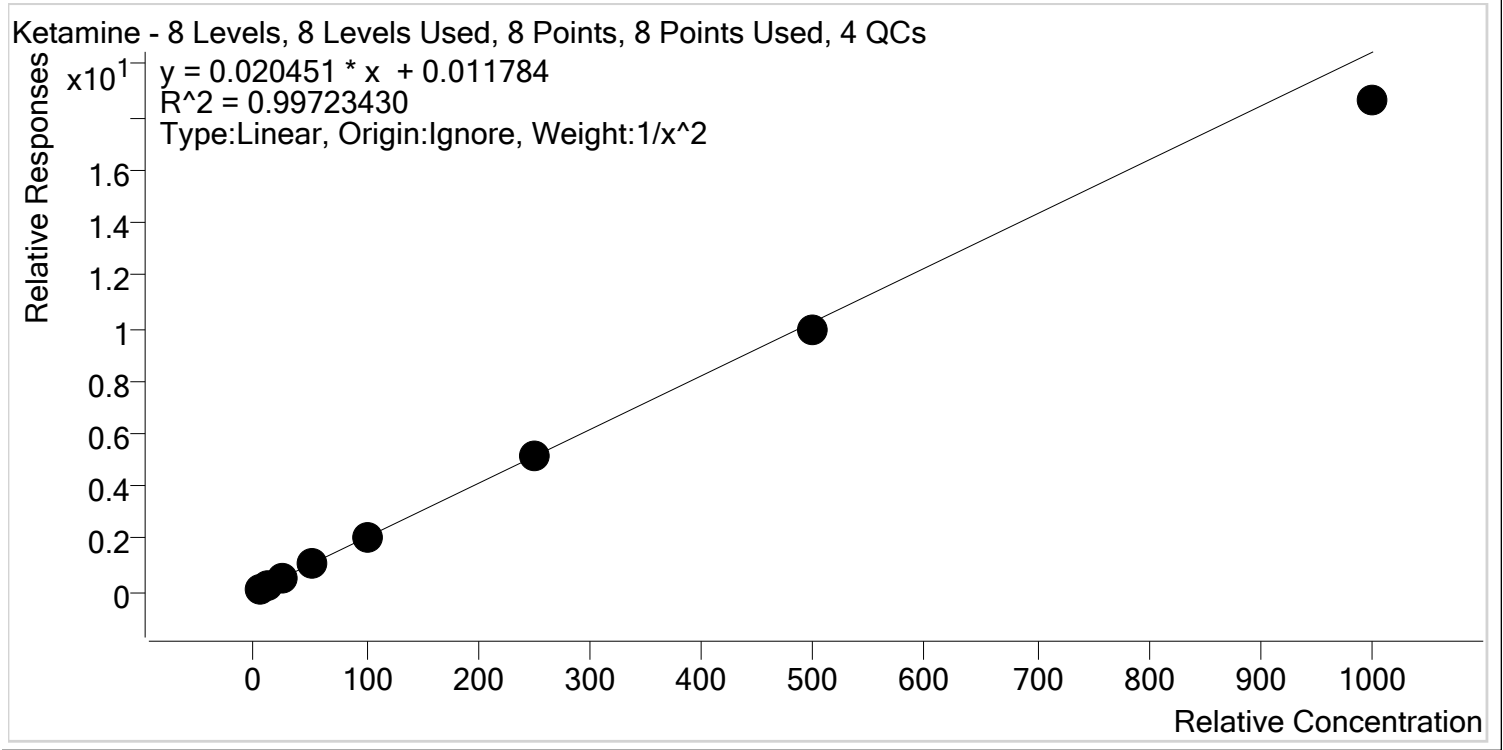


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 100.5    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 99.5     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.8                | 99.3     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.0                | 100.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 97.1                | 97.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 255.4               | 102.2    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 502.1               | 100.4    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1010.4              | 101.0    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4



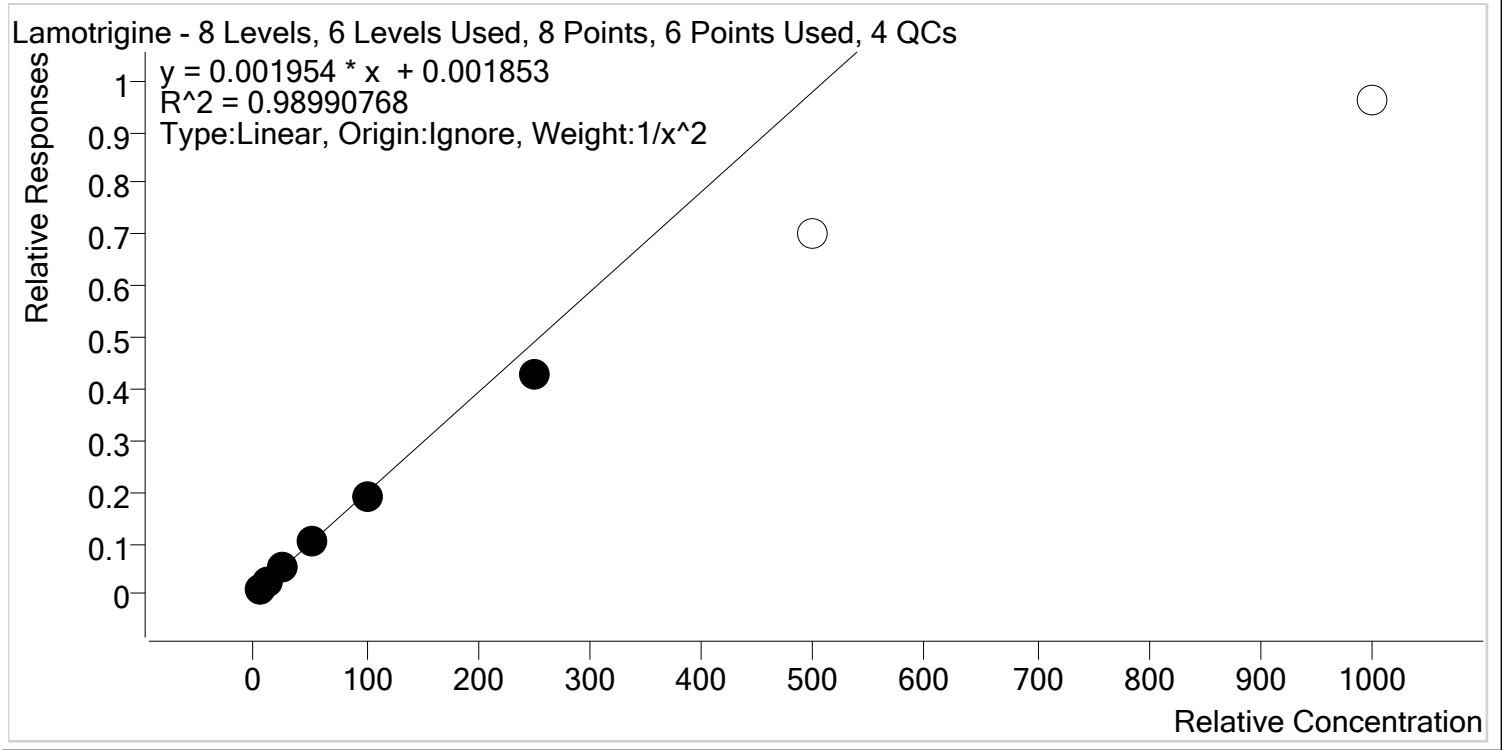
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 99.0     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 99.2     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.9                | 103.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 53.1                | 106.3    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 101.5               | 101.5    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 254.7               | 101.9    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 487.4               | 97.5     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 910.4               | 91.0     |

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

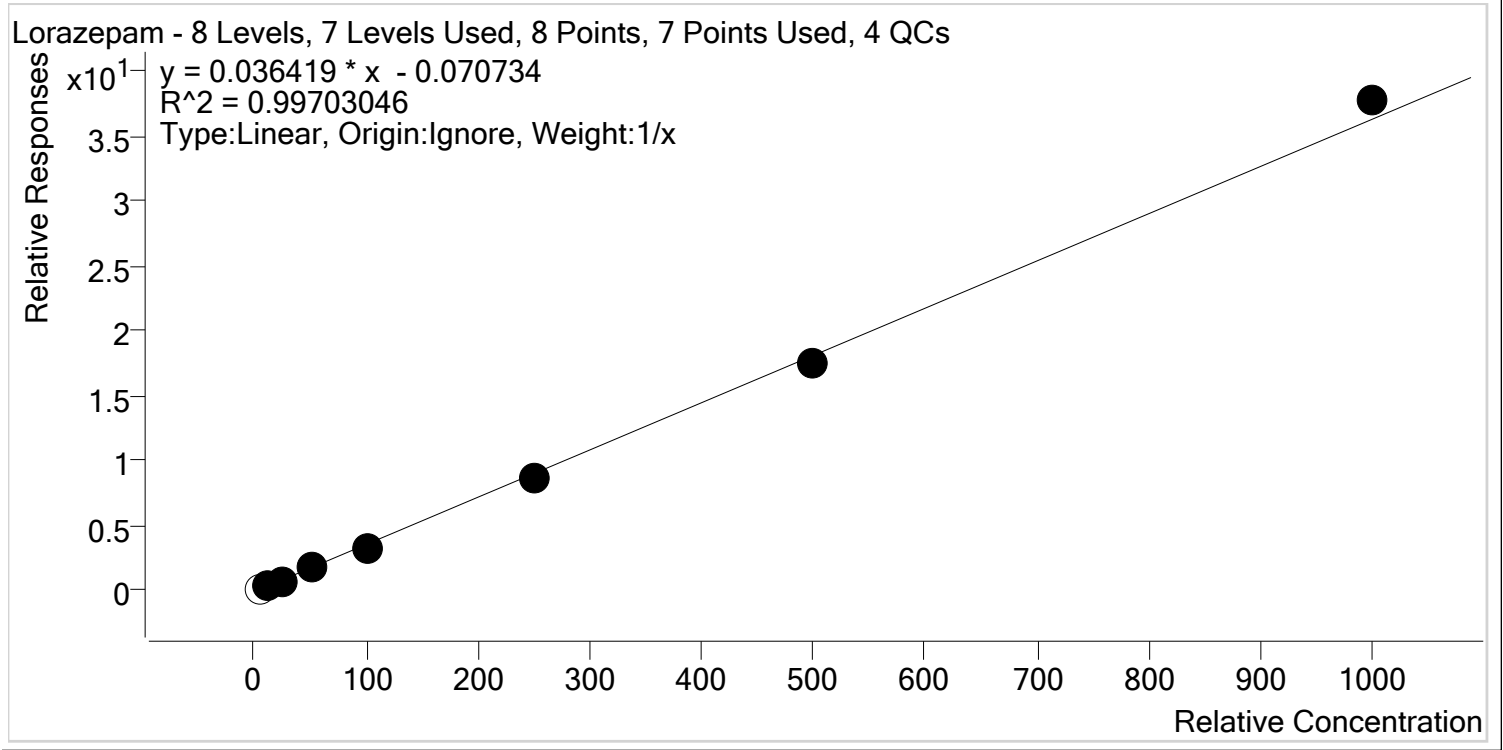


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 95.0     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.6                | 106.0    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 27.4                | 109.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.1                | 104.3    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 97.8                | 97.8     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 218.2               | 87.3     |
| p1 Cal 7-500ng  | 7     | x       | 500.0                  | 357.5               | 71.5     |
| p1 Cal 8-1000ng | 8     | x       | 1000.0                 | 490.6               | 49.1     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

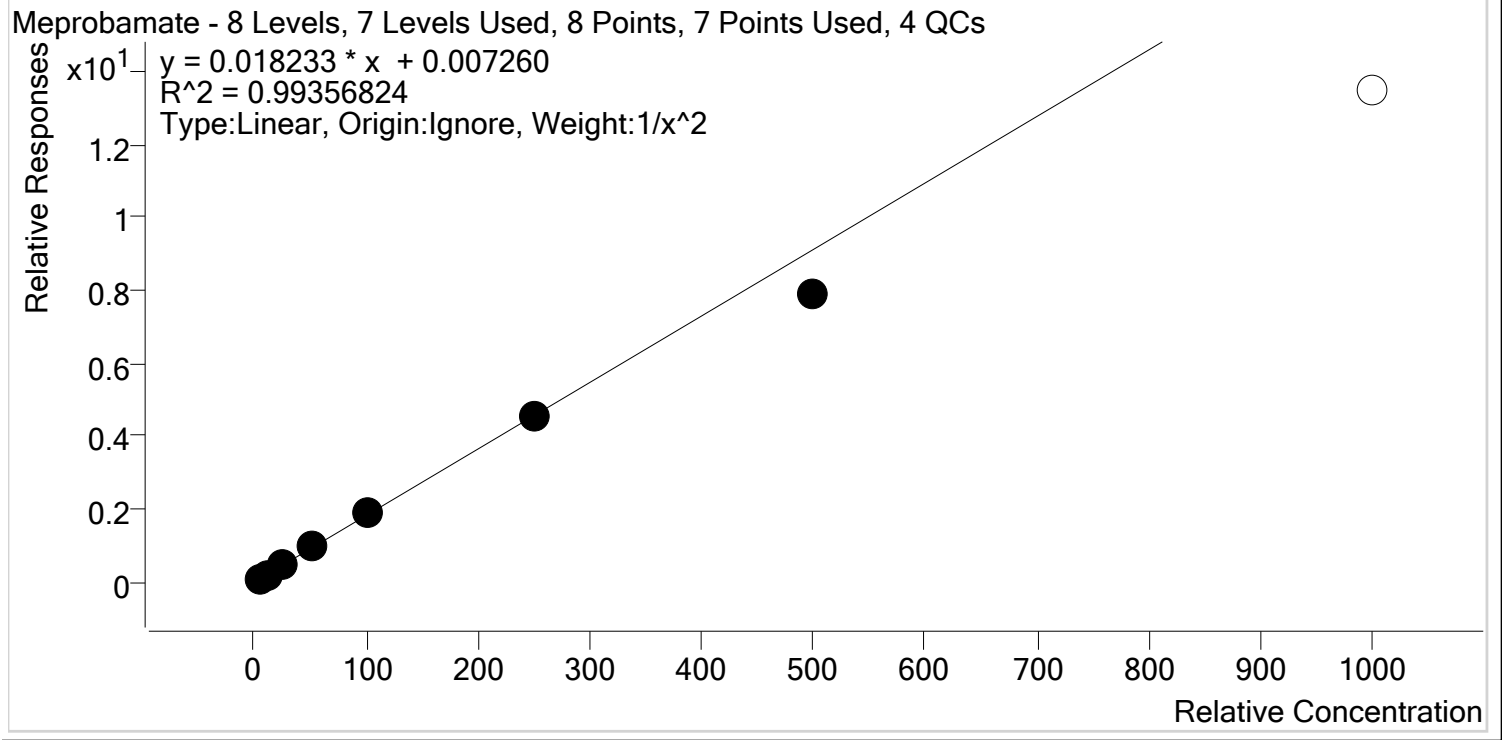


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | x       | 5.0                    | 6.3                 | 126.5    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 12.6                | 125.7    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 21.8                | 87.4     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.9                | 101.9    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 89.5                | 89.5     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 237.5               | 95.0     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 483.2               | 96.6     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1039.5              | 103.9    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

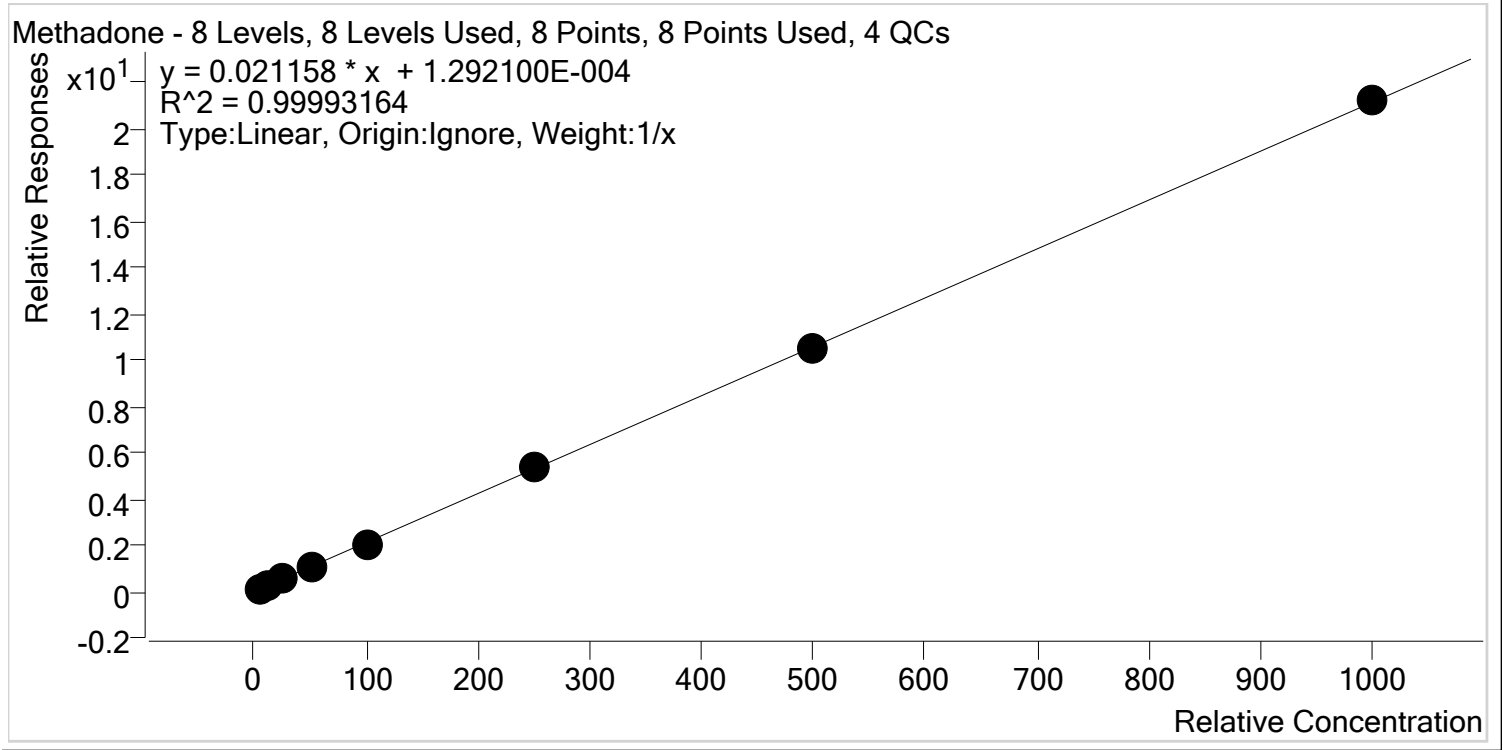


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.5     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.7                 | 97.3     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 26.3                | 105.2    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 54.1                | 108.2    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 103.1               | 103.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 248.9               | 99.6     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 435.7               | 87.1     |
| p1 Cal 8-1000ng | 8     | ✗       | 1000.0                 | 739.0               | 73.9     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

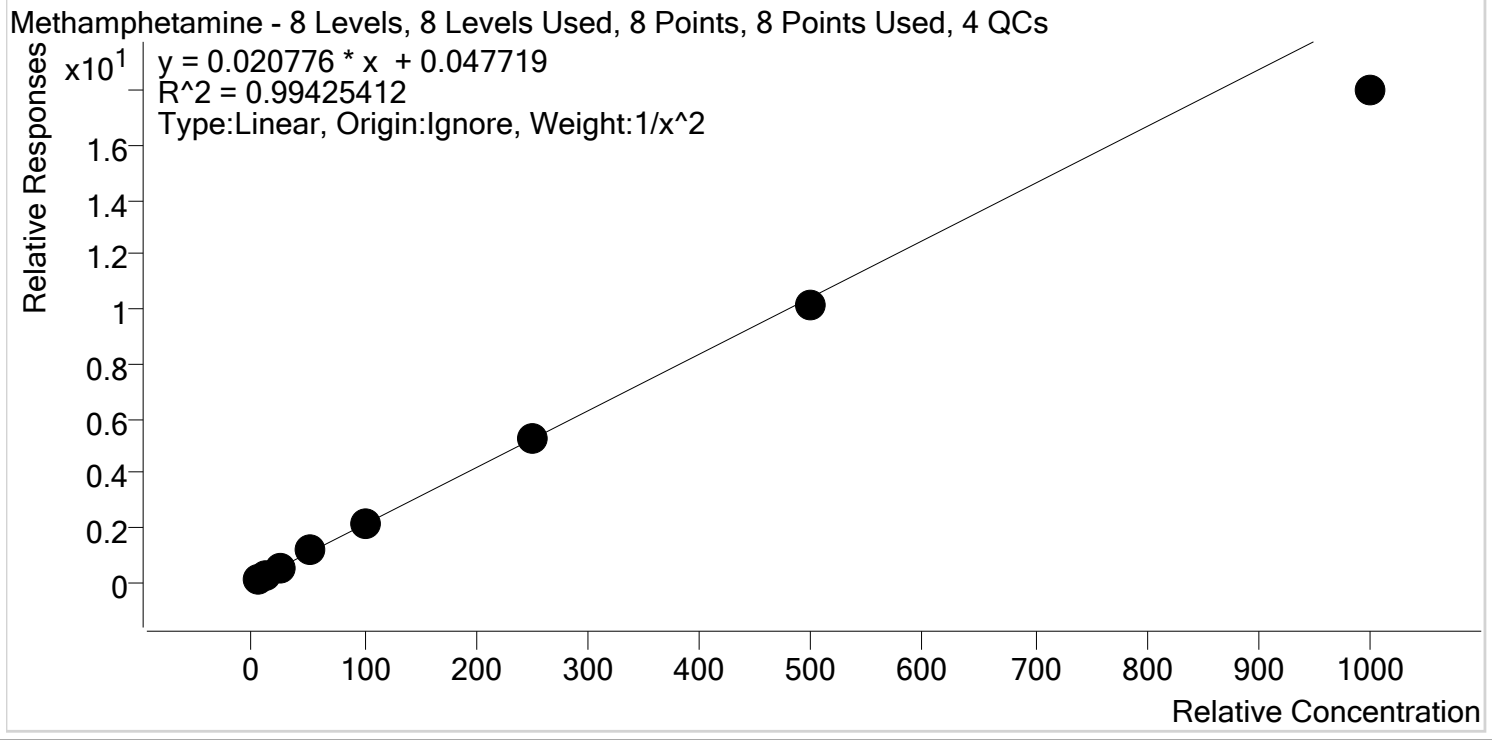


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.3                 | 105.7    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 99.6     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.0                | 96.2     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.0                | 100.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.0                | 98.0     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 251.2               | 100.5    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 497.9               | 99.6     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1003.6              | 100.4    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 96.7     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.3                | 103.3    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 26.0                | 103.9    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 53.8                | 107.6    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 103.5               | 103.5    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 253.7               | 101.5    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 485.5               | 97.1     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 863.5               | 86.3     |

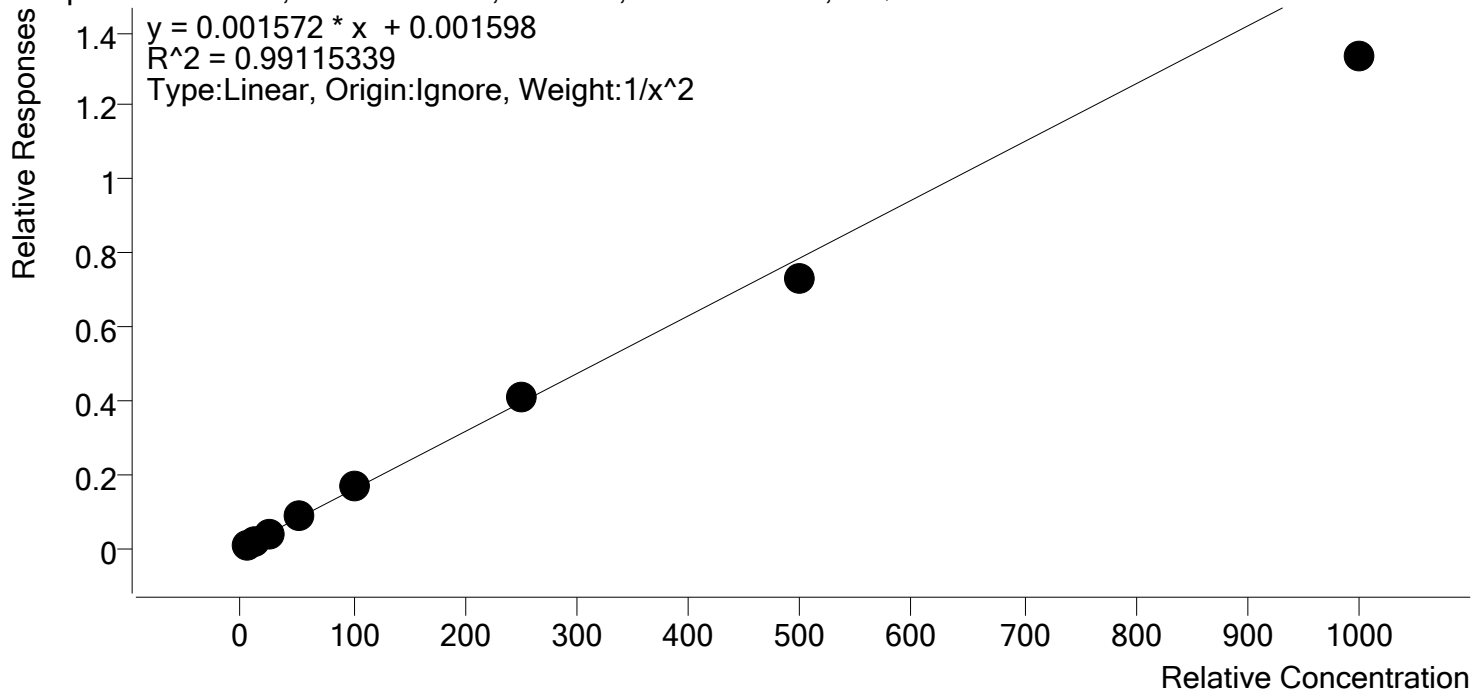
\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

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



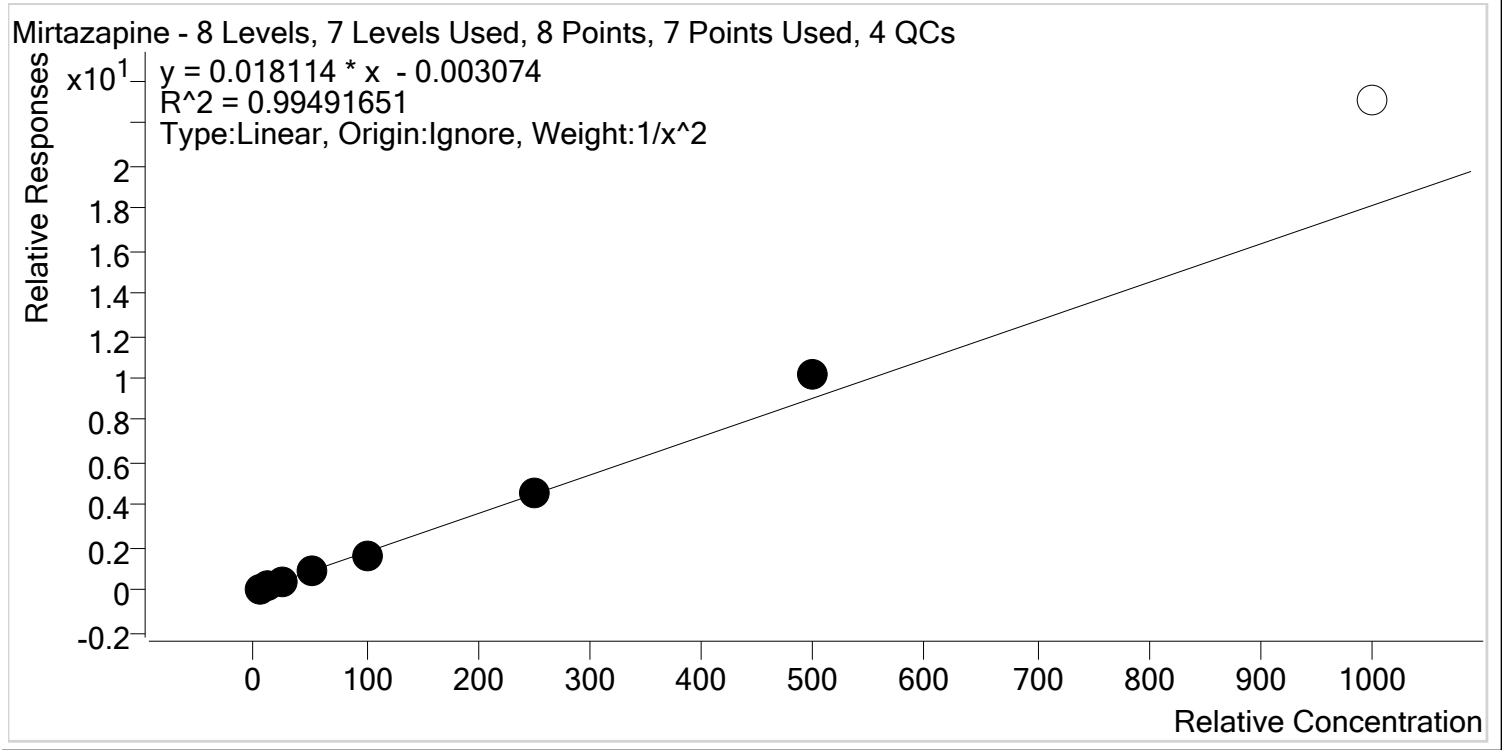
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 96.7     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.4                | 104.0    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.0                | 100.1    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 54.9                | 109.7    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 107.7               | 107.7    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 259.1               | 103.6    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 467.1               | 93.4     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 847.3               | 84.7     |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

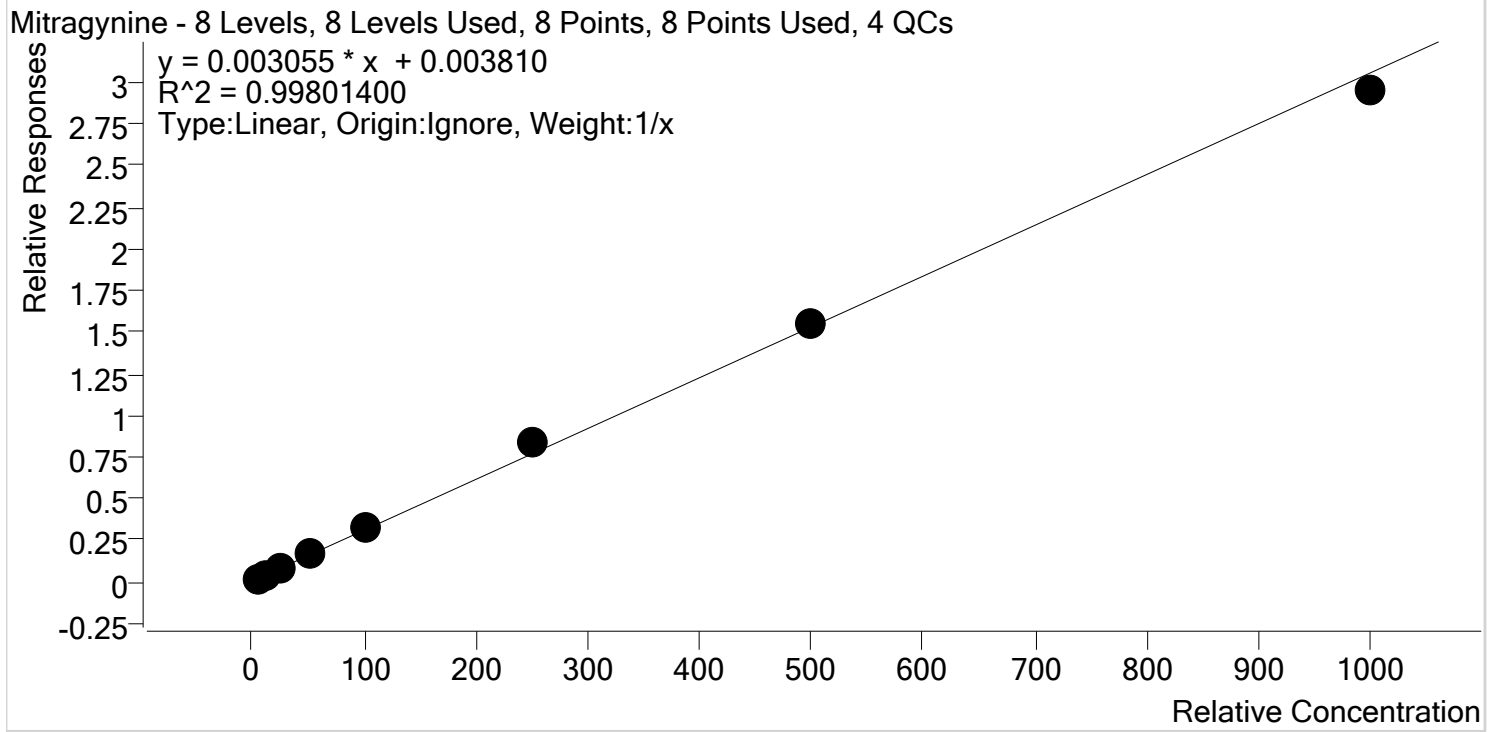


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 100.4    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.2                | 101.8    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 23.9                | 95.5     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 49.3                | 98.6     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 92.4                | 92.4     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 249.1               | 99.6     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 558.2               | 111.6    |
| p1 Cal 8-1000ng | 8     | ✗       | 1000.0                 | 1272.3              | 127.2    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

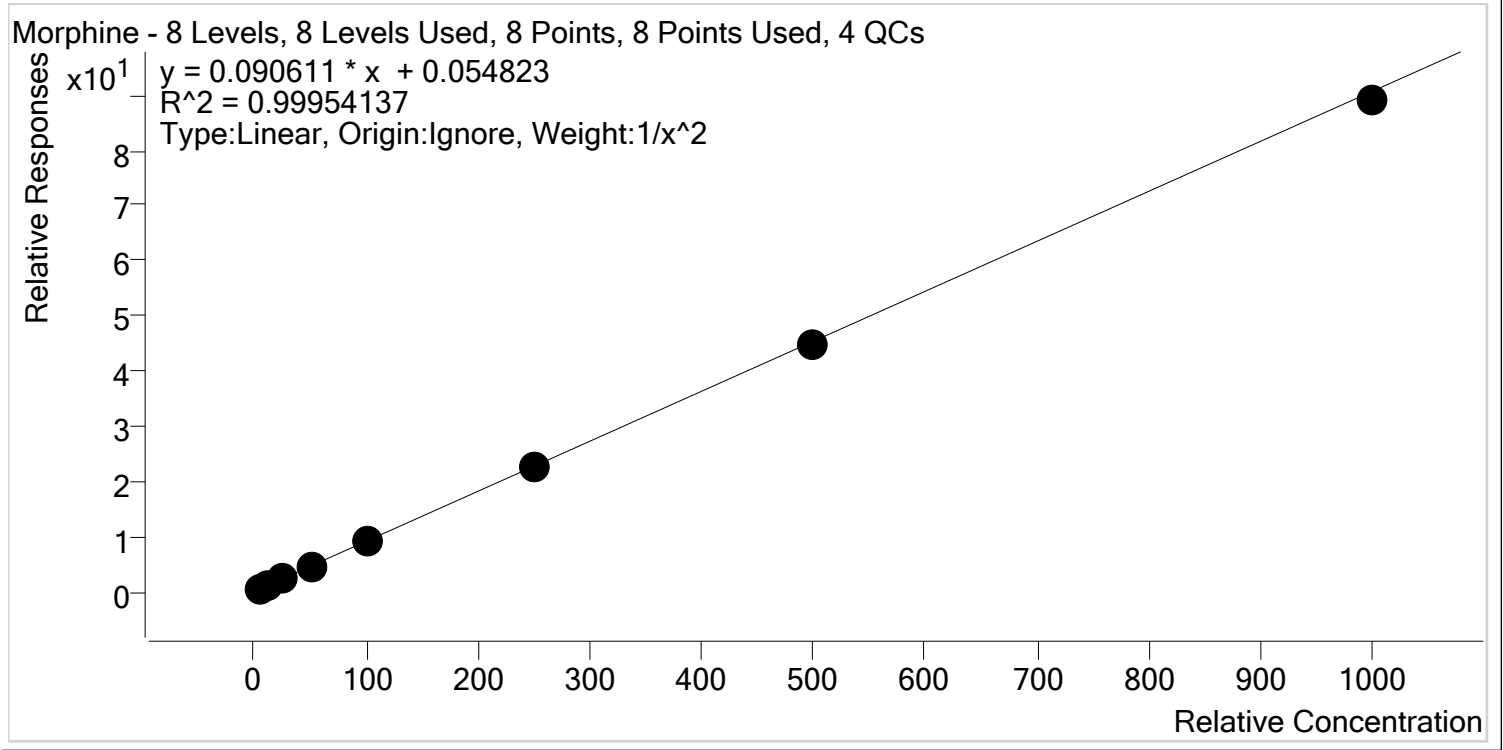


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.4                 | 87.3     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.8                 | 98.2     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.6                | 102.3    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.6                | 101.2    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 104.0               | 104.0    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 271.8               | 108.7    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 508.5               | 101.7    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 965.3               | 96.5     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

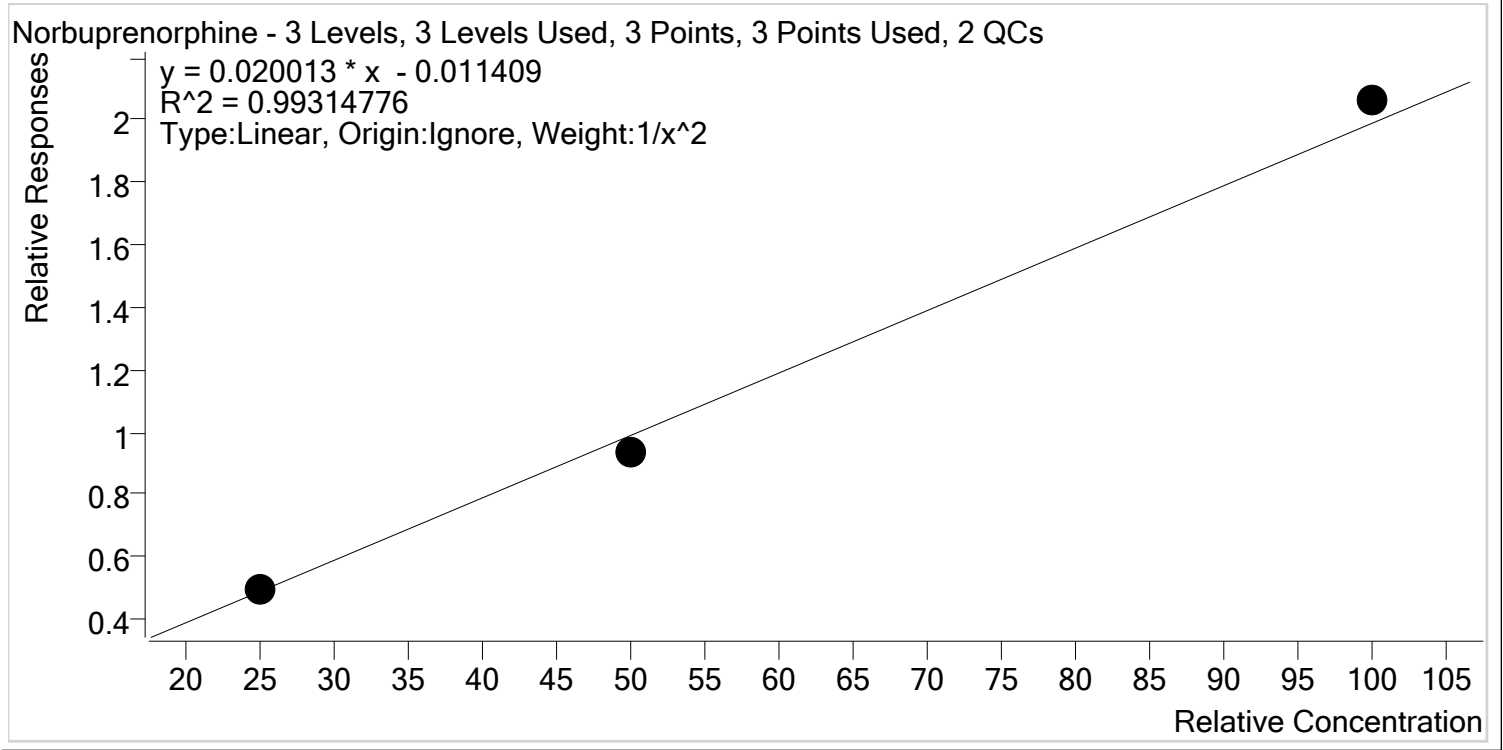


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 101.0    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.7                 | 96.9     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.4                | 101.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.2                | 102.5    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.1               | 100.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 251.9               | 100.8    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 495.2               | 99.0     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 981.6               | 98.2     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 6-250ng  | 6     | ✓       | 25.0                   | 25.5                | 101.8    |
| p1 Cal 7-500ng  | 7     | ✓       | 50.0                   | 47.3                | 94.6     |
| p1 Cal 8-1000ng | 8     | ✓       | 100.0                  | 103.6               | 103.6    |

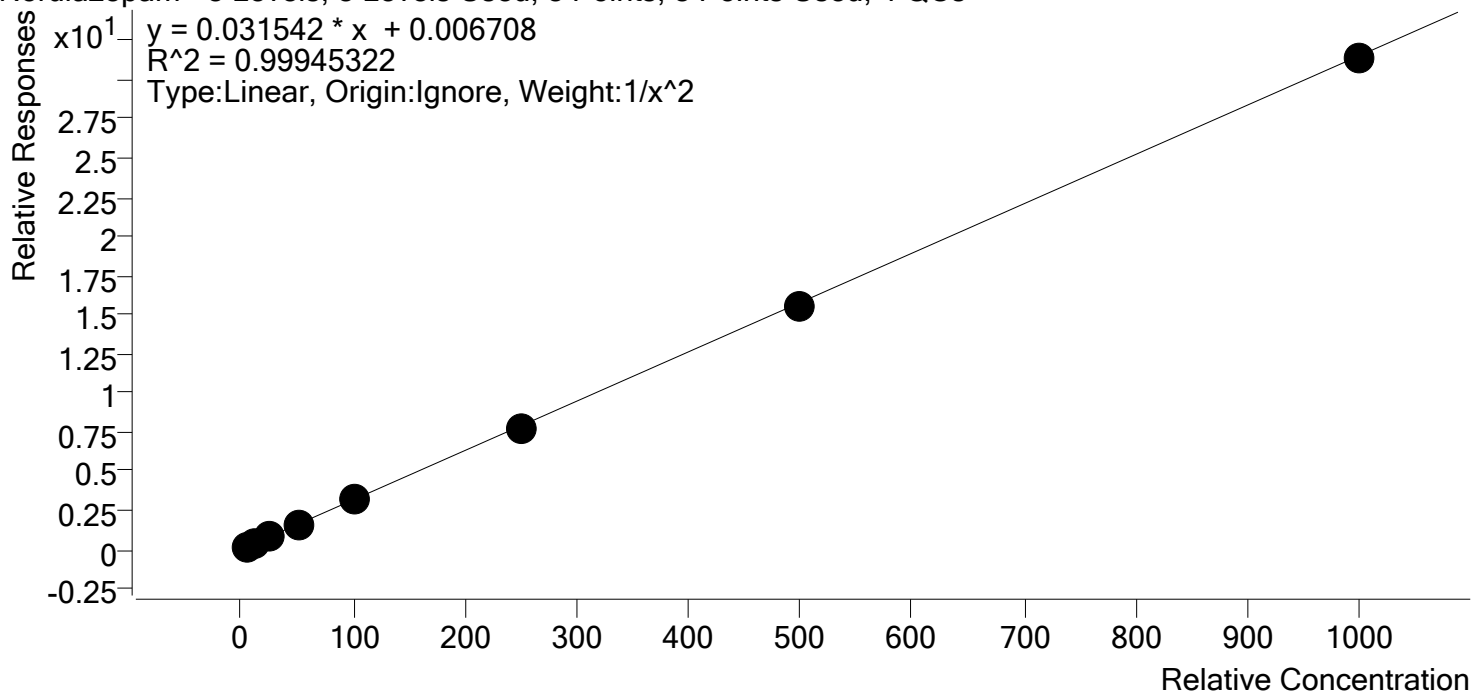
Did not evaluate



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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

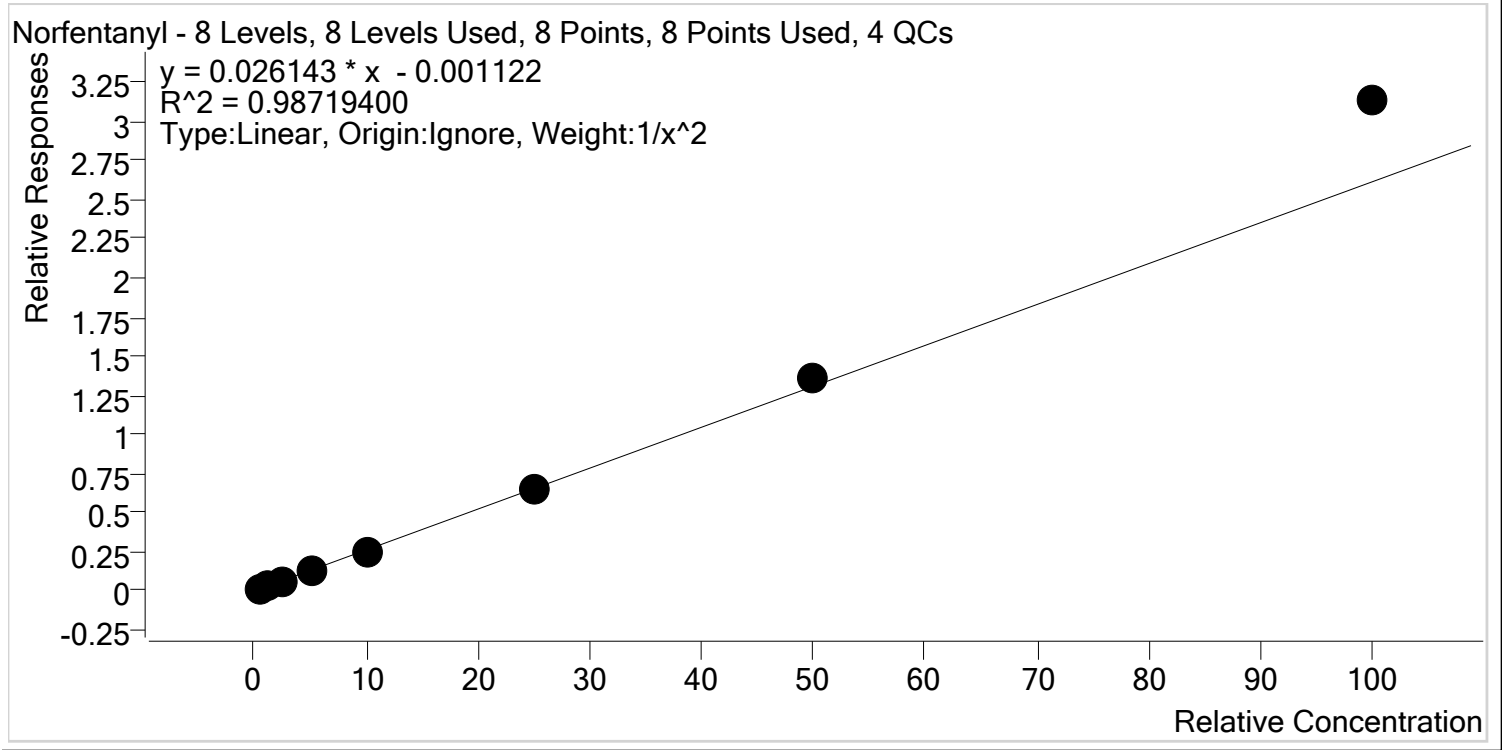


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.7     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 100.0    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.9                | 99.7     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.3                | 104.7    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.1               | 100.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 245.5               | 98.2     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 491.2               | 98.2     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 994.3               | 99.4     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 0.5                    | 0.5                 | 106.4    |
| p1 Cal 2- 10ng  | 2     | ✓       | 1.0                    | 0.9                 | 92.0     |
| p1 Cal 3 -25ng  | 3     | ✓       | 2.5                    | 2.3                 | 92.6     |
| p1 Cal 4-50ng   | 4     | ✓       | 5.0                    | 4.7                 | 93.2     |
| p1 Cal 5-100ng  | 5     | ✓       | 10.0                   | 9.2                 | 92.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 25.0                   | 24.8                | 99.3     |
| p1 Cal 7-500ng  | 7     | ✓       | 50.0                   | 52.3                | 104.5    |
| p1 Cal 8-1000ng | 8     | ✓       | 100.0                  | 119.9               | 119.9    |

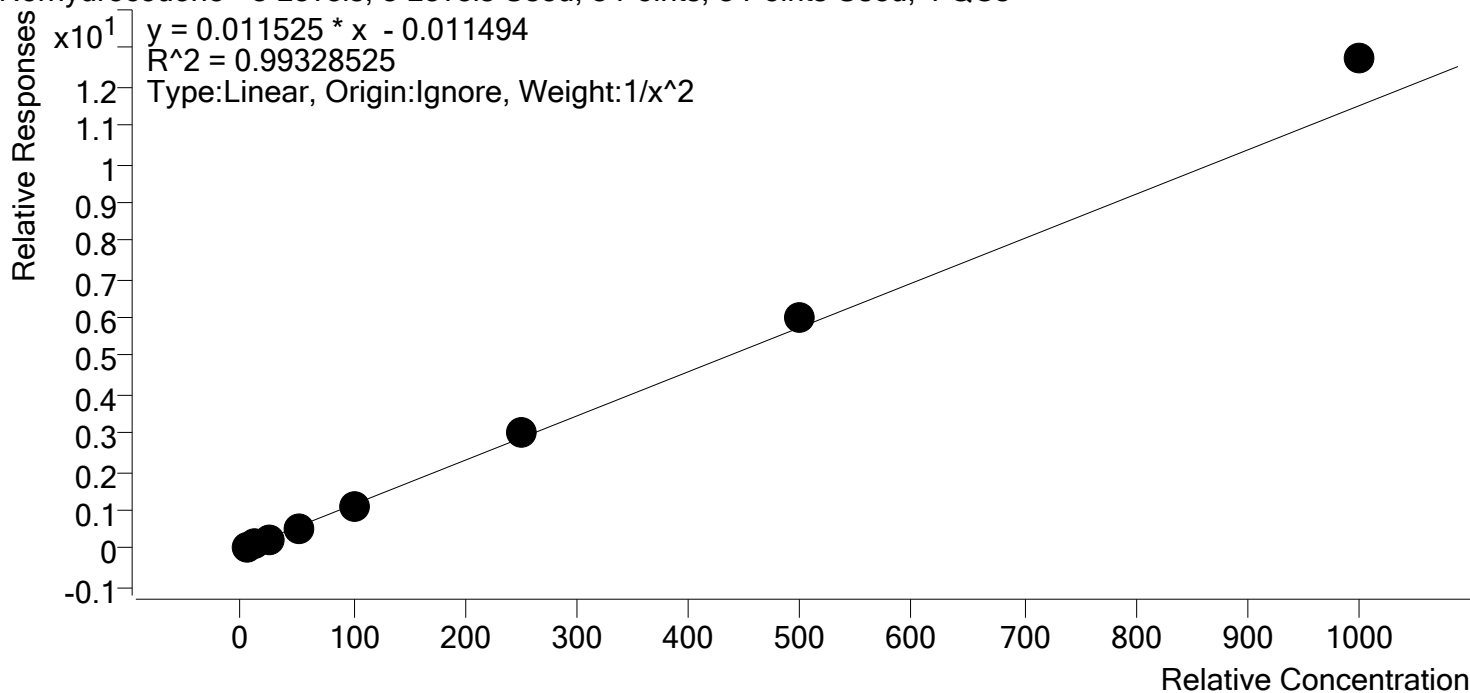
\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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

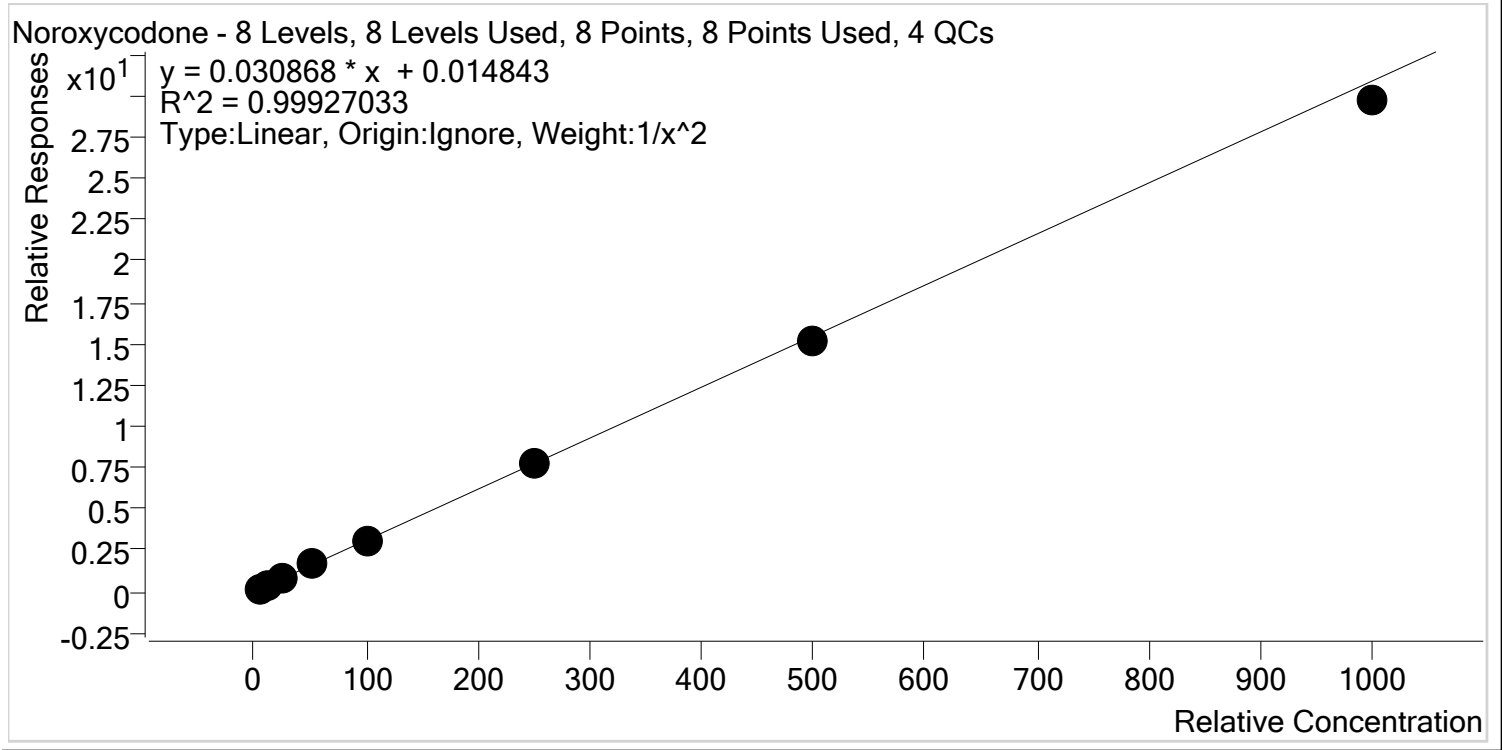


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 101.4    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.3                | 102.7    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 22.5                | 90.1     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 47.0                | 94.0     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 92.2                | 92.2     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 260.7               | 104.3    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 523.1               | 104.6    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1106.3              | 110.6    |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.6     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 99.0     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.8                | 103.1    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.5                | 103.0    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.5               | 100.5    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 251.3               | 100.5    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 490.6               | 98.1     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 961.6               | 96.2     |

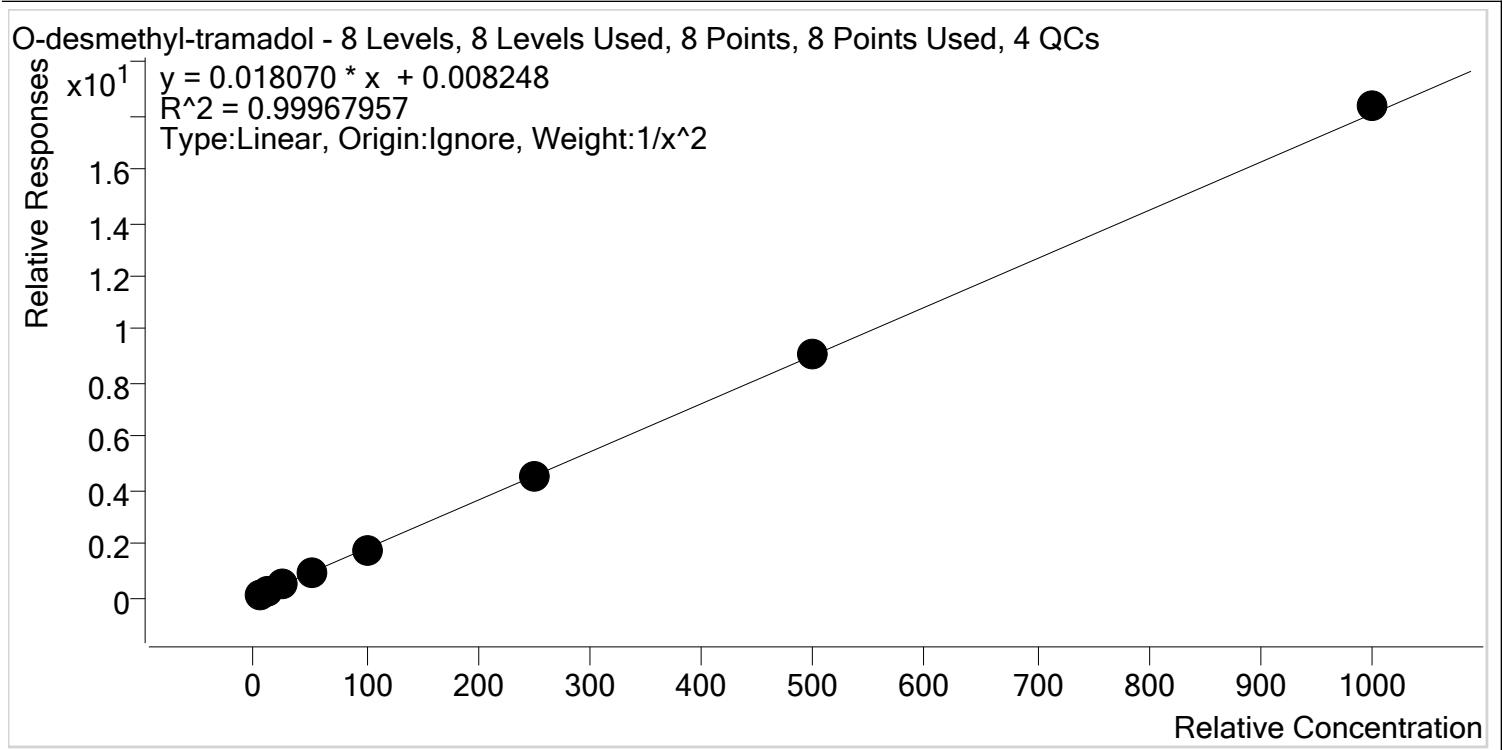


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



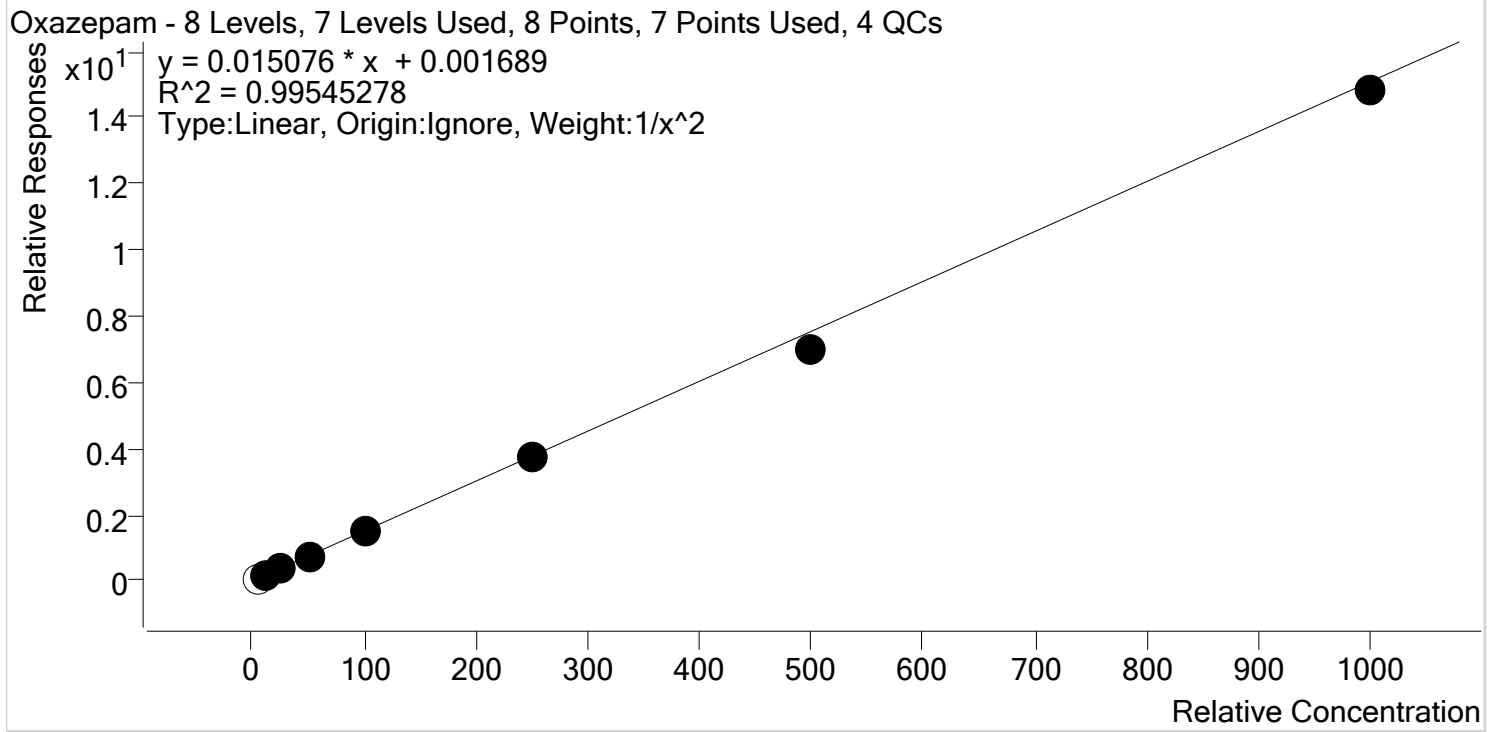
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 101.3    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.8                 | 98.0     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.6                | 98.5     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.1                | 100.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 98.1                | 98.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 252.6               | 101.0    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 506.5               | 101.3    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1015.9              | 101.6    |

\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

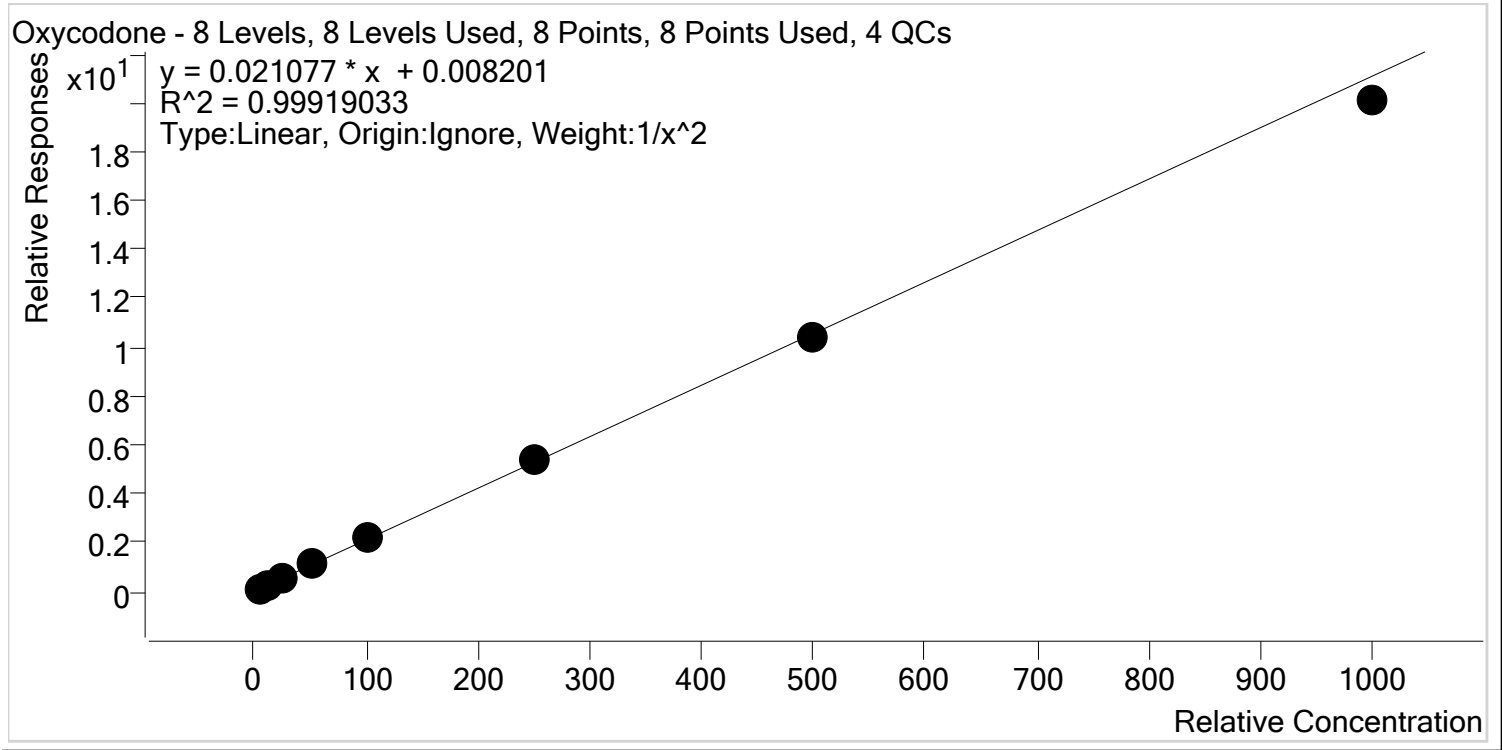


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | x       | 5.0                    | 4.5                 | 89.3     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.5                 | 95.2     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 27.8                | 111.2    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.1                | 102.3    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 99.5                | 99.5     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 250.4               | 100.1    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 466.8               | 93.4     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 982.2               | 98.2     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



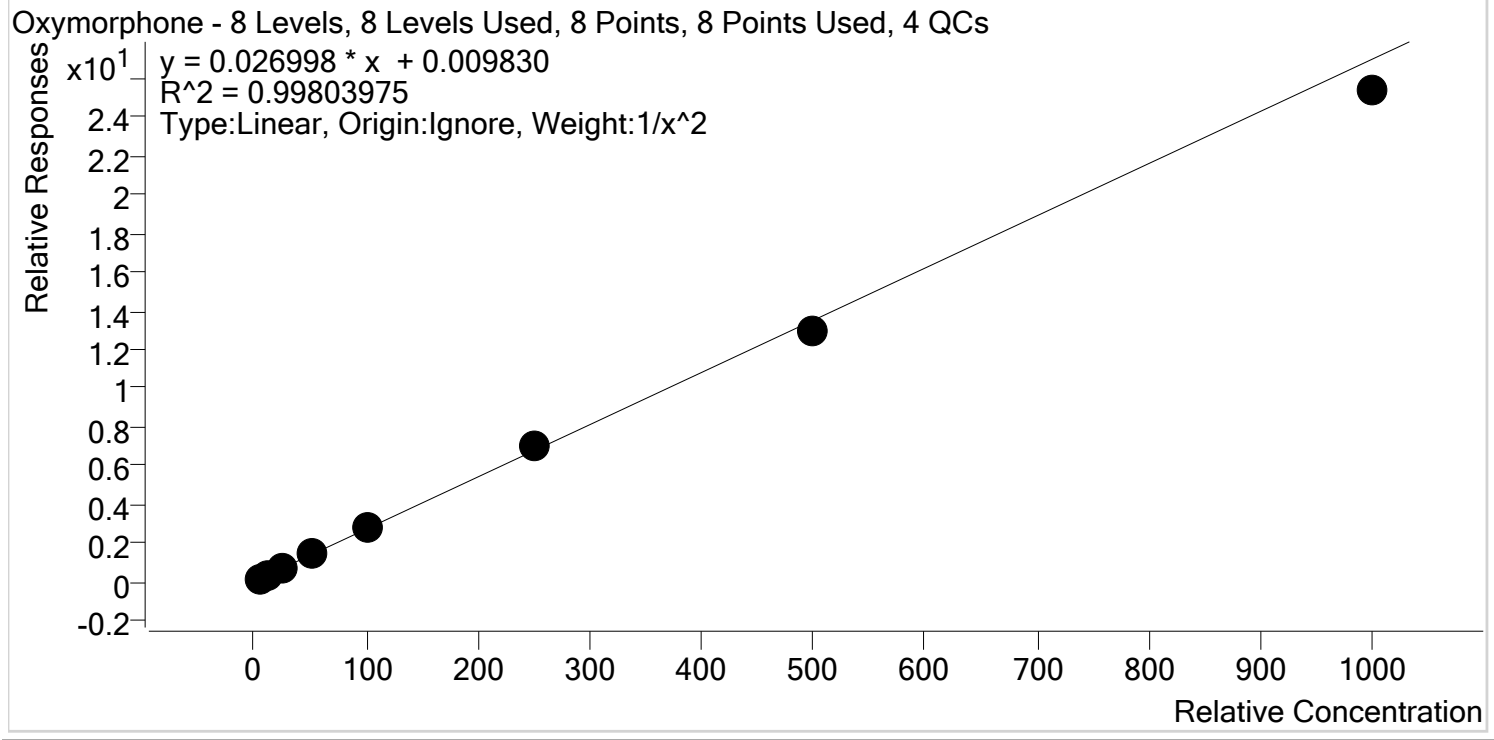
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.4     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.2                | 102.3    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.2                | 100.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.4                | 102.8    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.9               | 100.9    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 252.8               | 101.1    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 492.8               | 98.6     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 952.6               | 95.3     |

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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.9     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.8                 | 97.9     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.9                | 103.6    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.8                | 103.6    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.1               | 100.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 261.7               | 104.7    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 480.8               | 96.2     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 939.9               | 94.0     |

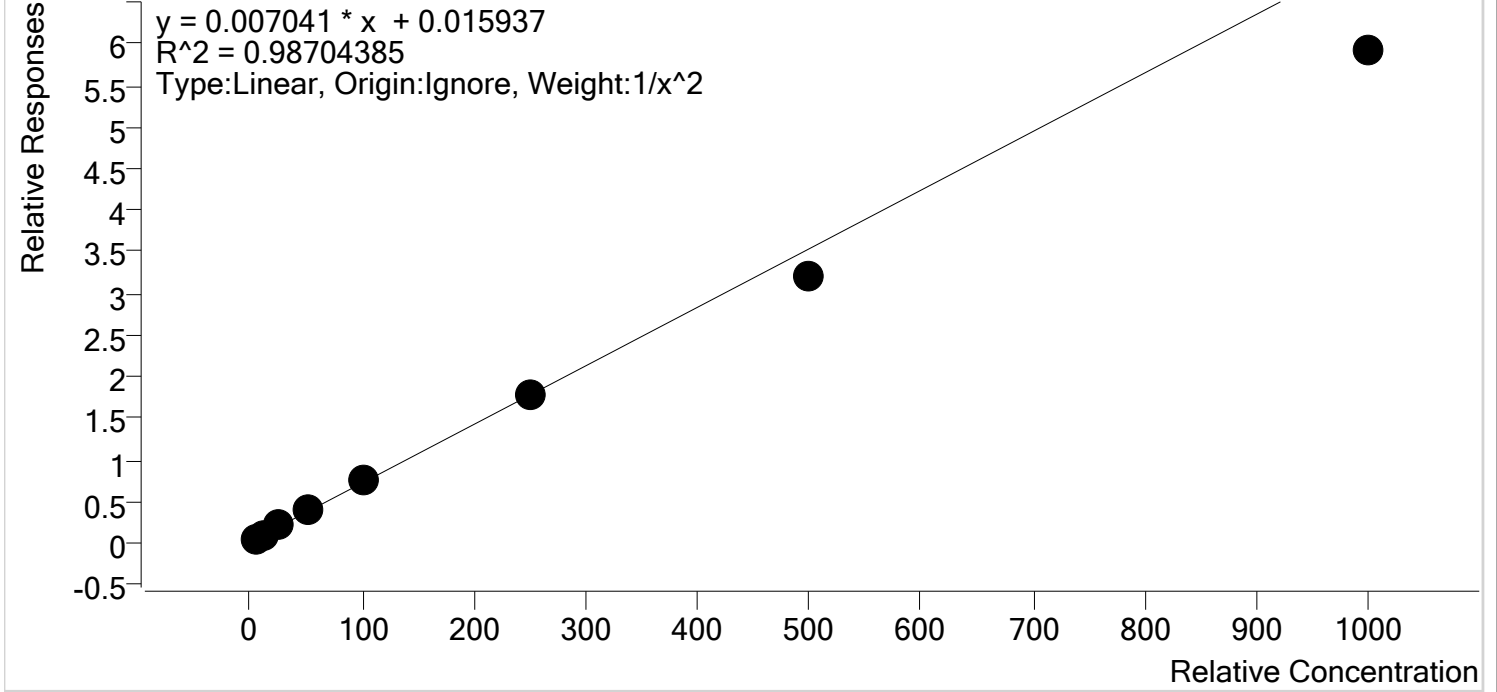


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

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



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.8                 | 96.5     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 100.3    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 27.2                | 108.7    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 57.4                | 114.8    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 105.7               | 105.7    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 249.3               | 99.7     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 452.2               | 90.4     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 838.2               | 83.8     |

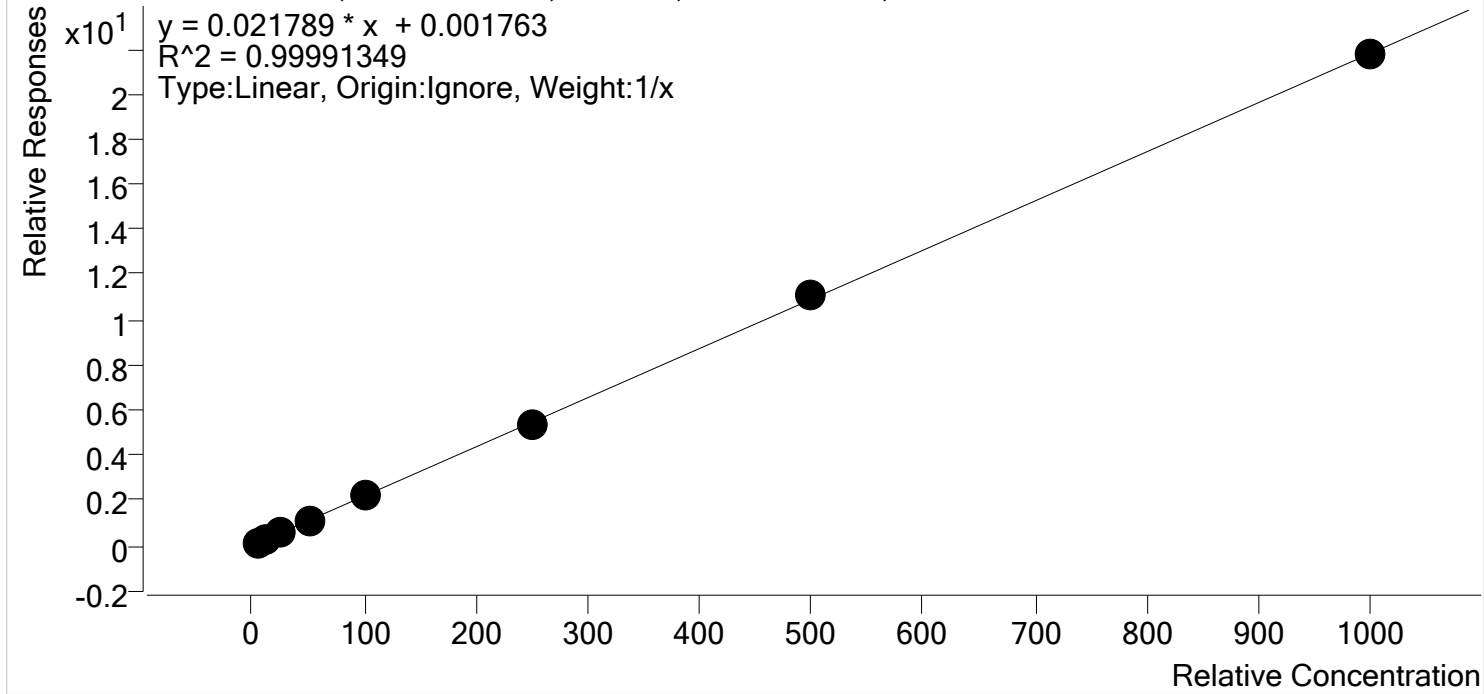
\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

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

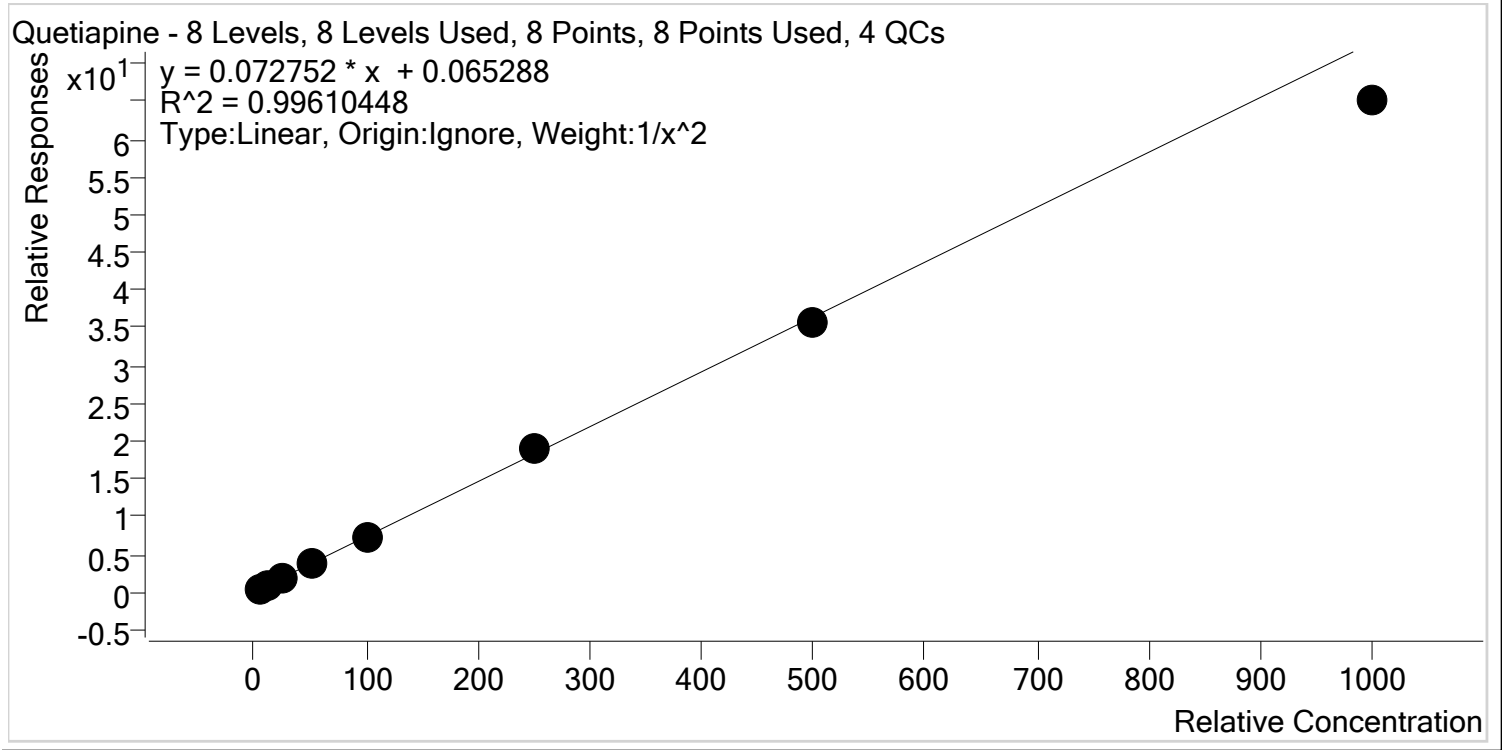


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.1                 | 101.3    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.0                | 99.7     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.9                | 99.8     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.2                | 100.3    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 99.3                | 99.3     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 246.2               | 98.5     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 506.5               | 101.3    |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 997.8               | 99.8     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

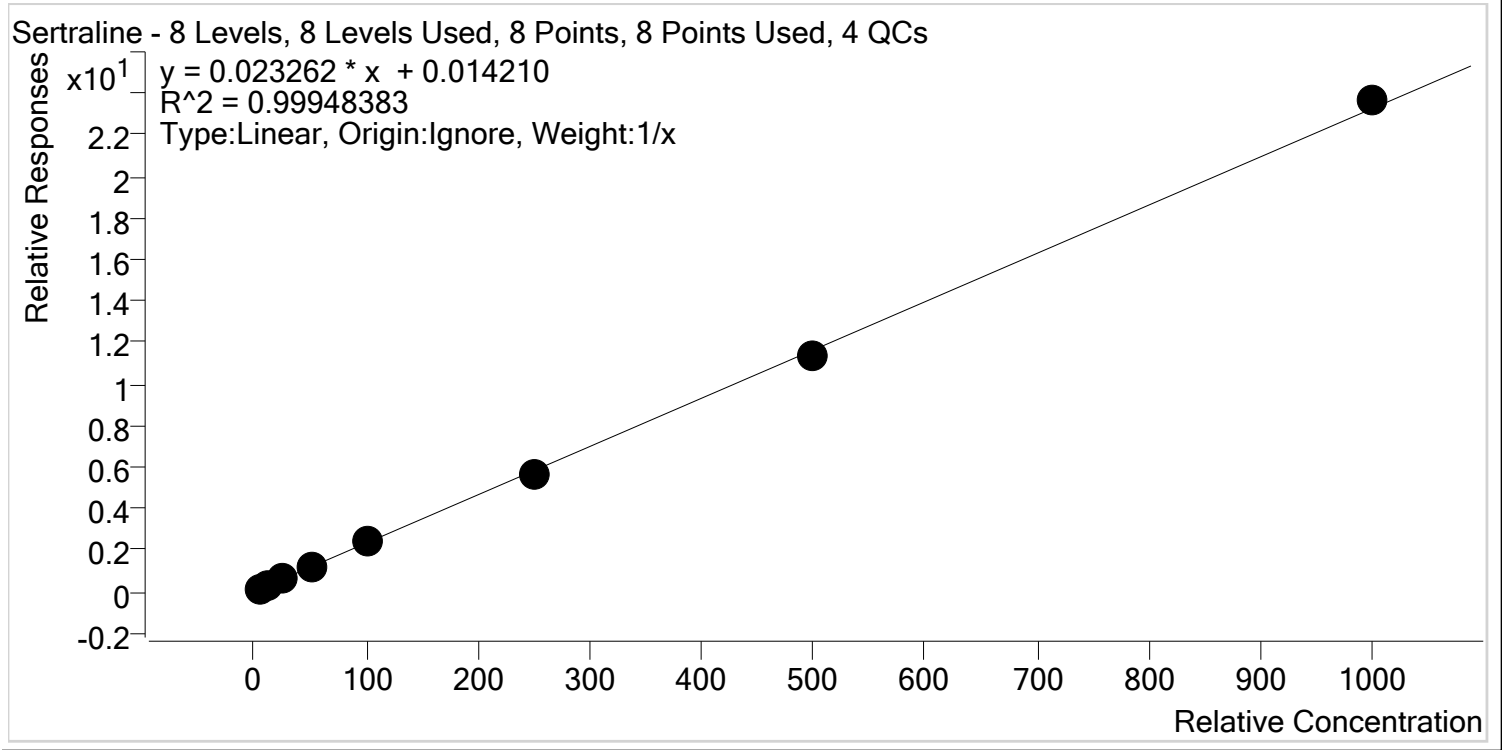


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.2     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.2                | 101.8    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.1                | 100.4    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 54.0                | 108.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 101.0               | 101.0    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 259.5               | 103.8    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 486.7               | 97.3     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 894.2               | 89.4     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



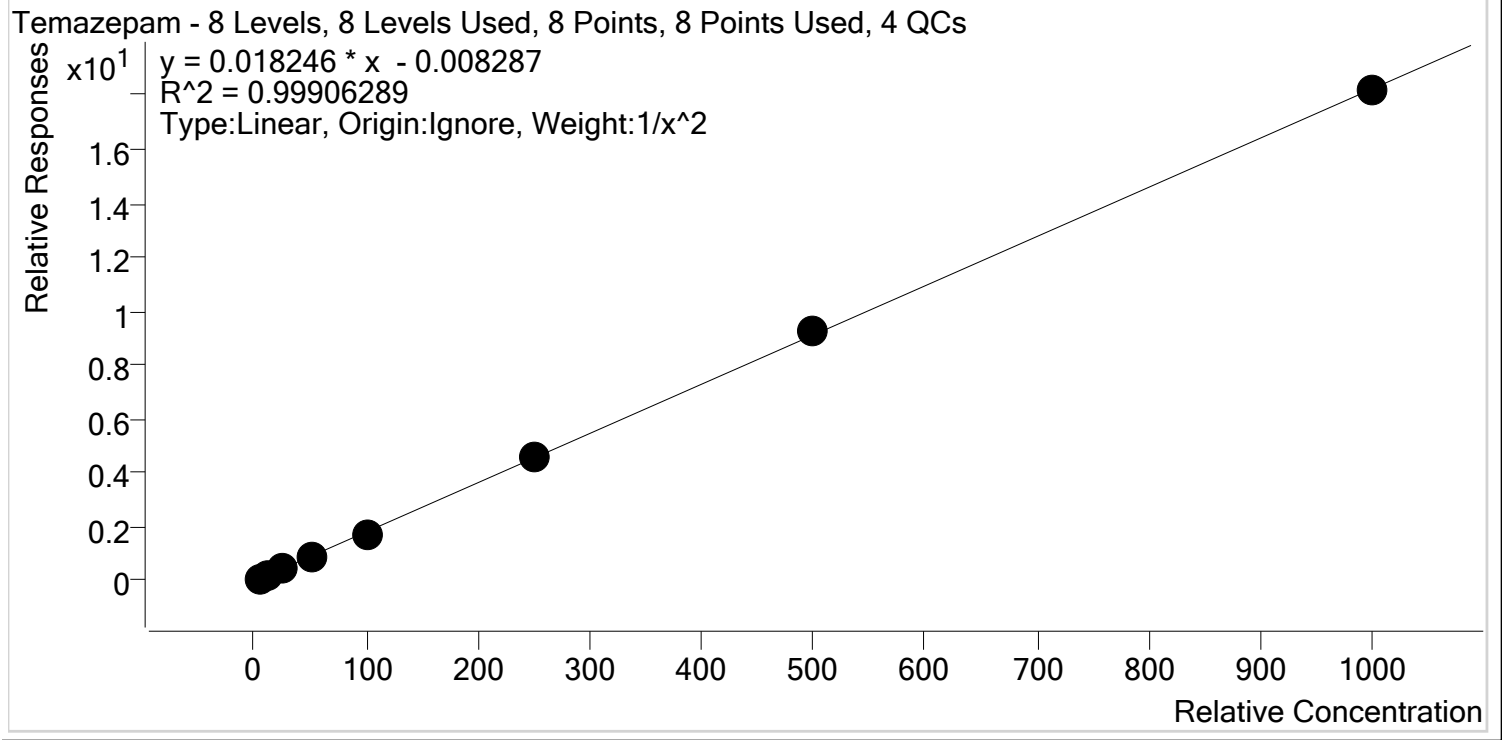
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.5                 | 109.1    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.6                 | 95.7     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 23.8                | 95.1     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 50.3                | 100.7    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 102.6               | 102.6    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 244.5               | 97.8     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 487.1               | 97.4     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1016.6              | 101.7    |





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

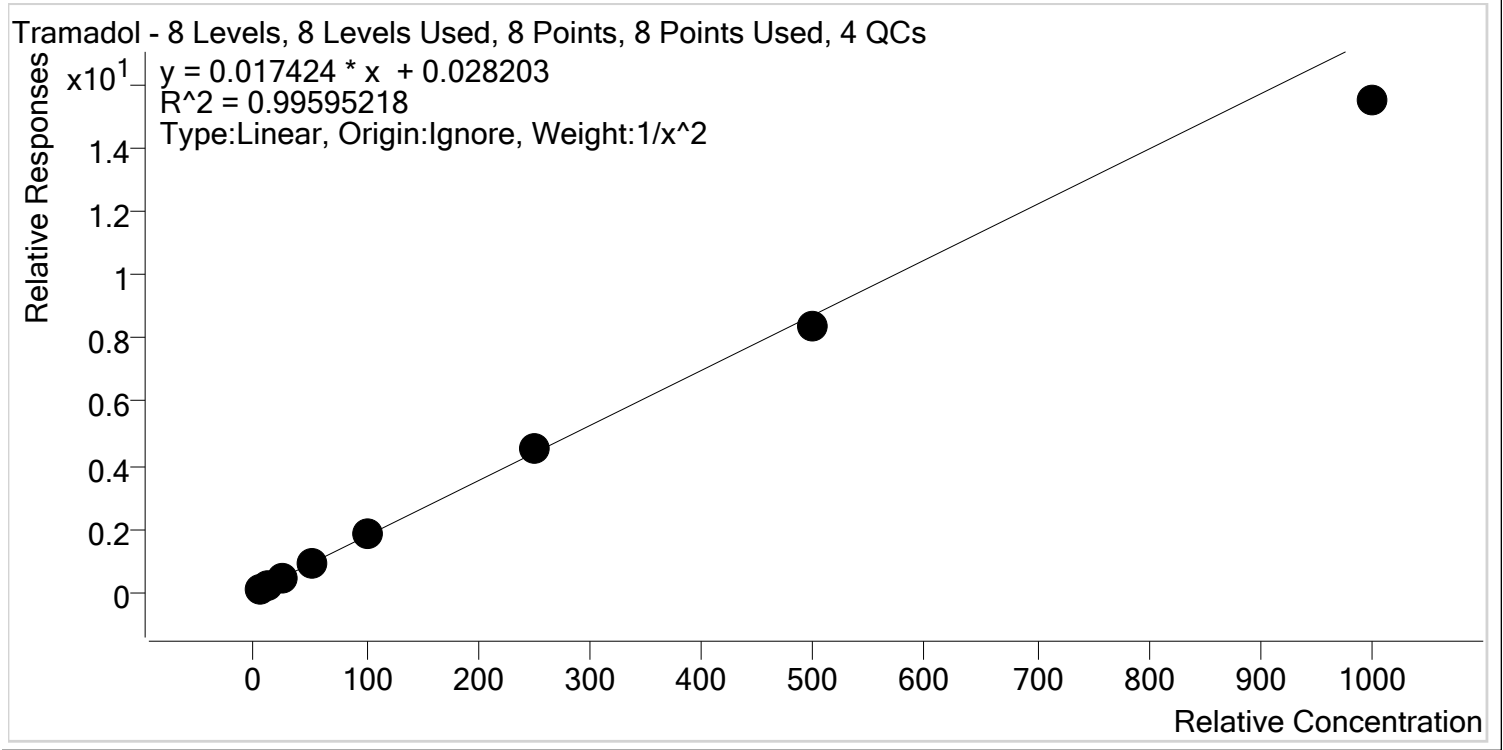


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.5     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.5                | 104.7    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.1                | 96.5     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 49.7                | 99.4     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 97.6                | 97.6     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 254.7               | 101.9    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 509.0               | 101.8    |
| 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\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

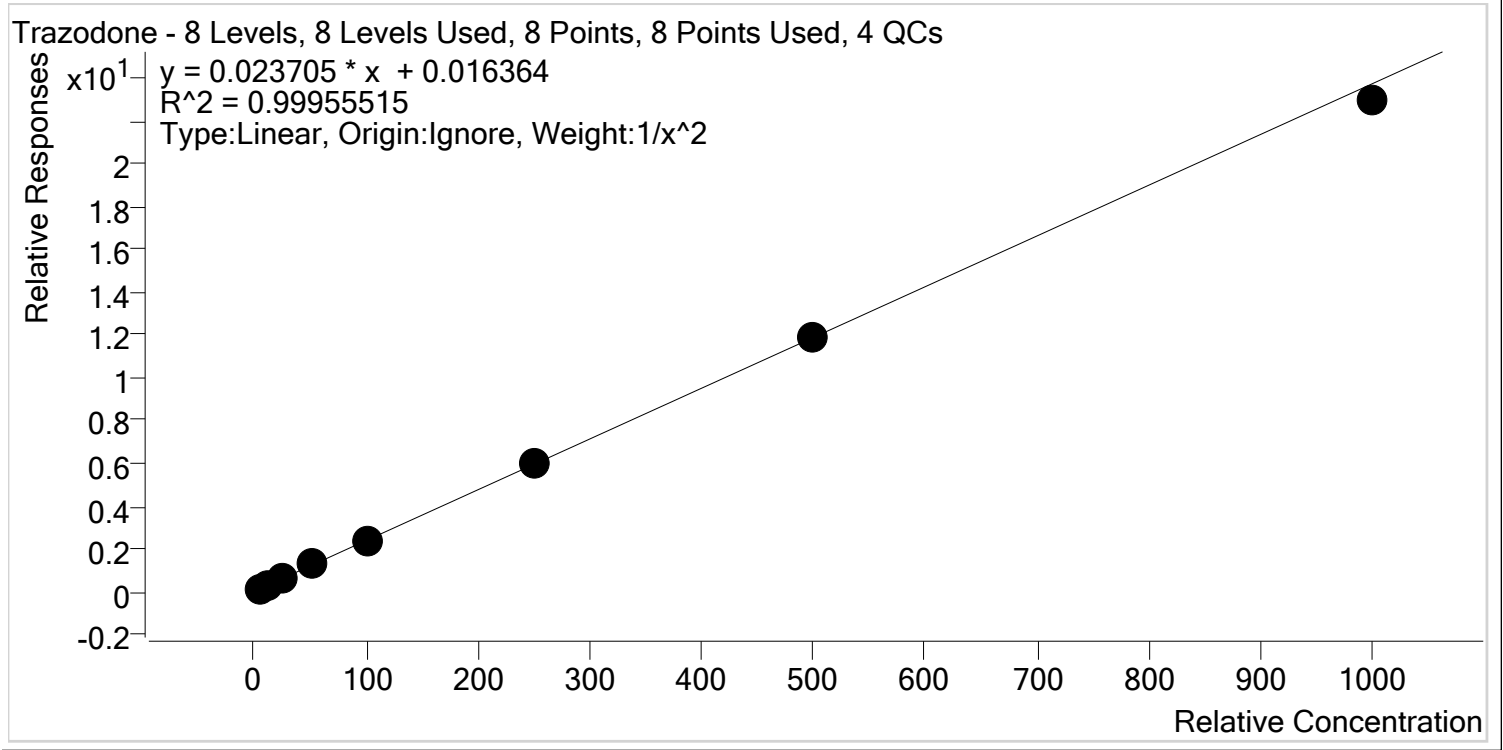


| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.3     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 98.8     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.6                | 102.5    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.5                | 105.1    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 105.0               | 105.0    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 260.3               | 104.1    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 481.8               | 96.4     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 888.0               | 88.8     |



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6



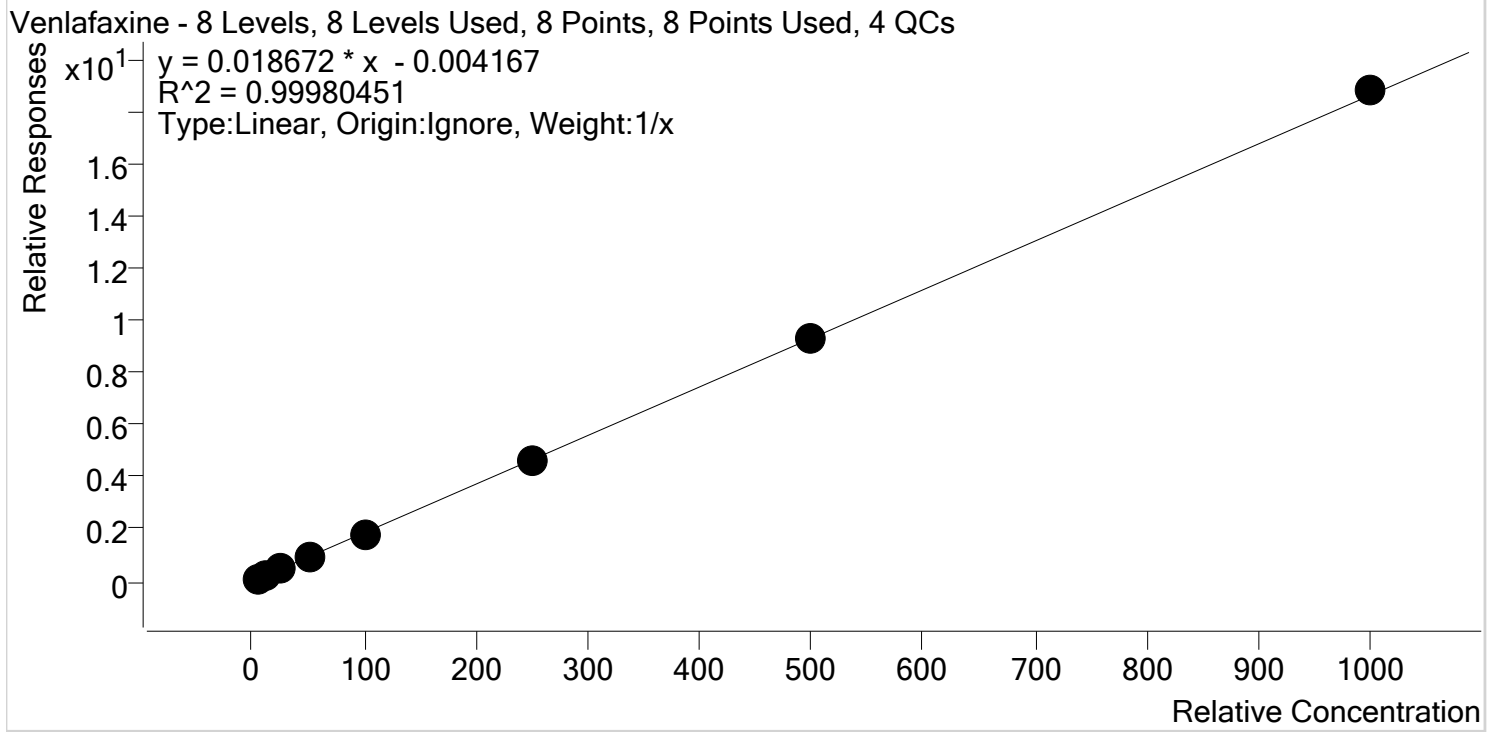
| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.0                 | 99.9     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 9.9                 | 99.4     |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.0                | 100.0    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 51.7                | 103.4    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 100.1               | 100.1    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 251.6               | 100.6    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 498.8               | 99.8     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 966.9               | 96.7     |

\$



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 5.4                 | 107.7    |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 100.6    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 24.3                | 97.1     |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 49.6                | 99.1     |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 96.1                | 96.1     |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 247.1               | 98.8     |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 497.6               | 99.5     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 1009.9              | 101.0    |

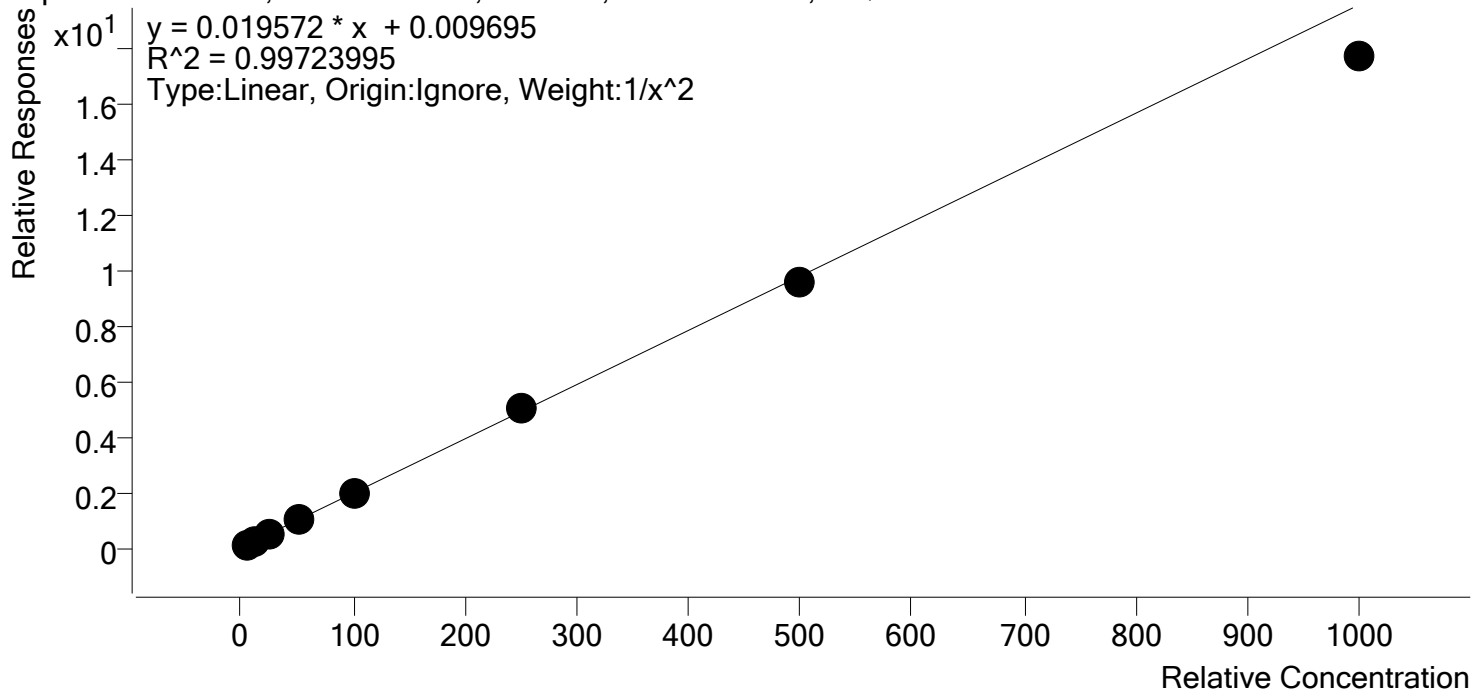
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 1/17/2020 1:47 PM  
**Analyst Name** ISP\Datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



| Sample          | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng    | 1     | ✓       | 5.0                    | 4.9                 | 98.1     |
| p1 Cal 2- 10ng  | 2     | ✓       | 10.0                   | 10.1                | 101.2    |
| p1 Cal 3 -25ng  | 3     | ✓       | 25.0                   | 25.9                | 103.8    |
| p1 Cal 4-50ng   | 4     | ✓       | 50.0                   | 52.6                | 105.2    |
| p1 Cal 5-100ng  | 5     | ✓       | 100.0                  | 101.2               | 101.2    |
| p1 Cal 6-250ng  | 6     | ✓       | 250.0                  | 254.7               | 101.9    |
| p1 Cal 7-500ng  | 7     | ✓       | 500.0                  | 490.9               | 98.2     |
| p1 Cal 8-1000ng | 8     | ✓       | 1000.0                 | 904.5               | 90.5     |

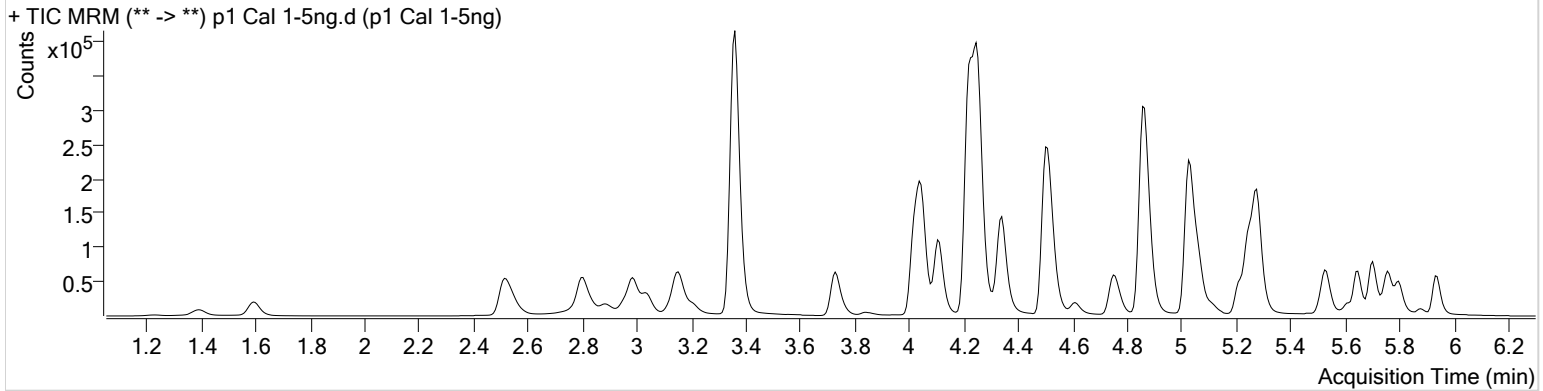
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

**Instrument** Falco **Data File** p1 Cal 1-5ng.d  
**Type** Cal **Sample** p1 Cal 1-5ng  
**Acq. Method** MDQ P1 01112020.m **Operator** Sarah Pickle  
**Sample Position** P5-A1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 1/16/2020 8:14:26 PM  
**Sample Info.**

## Sample Chromatogram



| Name                | RT    | Resp. | S/N      | Ratio   | S/N      | ISTD Resp. | Final Conc.  |
|---------------------|-------|-------|----------|---------|----------|------------|--------------|
| 6-MAM               | 3.136 | 591   | 594.50   | 76.0    | 102.73   | 23689      | 0.5027 ng/ml |
| 7-aminoclonazepam   | 4.251 | 6712  | 306.04   | 84.2    | 966.14   | 50456      | 4.7865 ng/ml |
| a-hydroxyalprazolam | 5.687 | 1542  | 63.18    | 53.7    | 2931.70  | 4987       | 5.1143 ng/ml |
| alpha-PVP           | 4.350 | 34238 | 23239.62 | 50.7    | 714.75   | 299546     | 5.1421 ng/ml |
| Alprazolam          | 5.763 | 17437 | 345.68   | 99.8    | 761.23   | 82625      | 5.0077 ng/ml |
| Amphetamine         | 3.041 | 29919 | 603.83   | 49.4    | 342.28   | 50355      | 4.8657 ng/ml |
| Benzoylcegonine     | 3.867 | 1368  | 24.12    | 7.9     | 13.29    | 10397      | 4.9732 ng/ml |
| Buprenorphine       | 5.747 | 693   | 15.16    | 6.1 Low | 4.85 Low | 25102      | 1.0734 ng/ml |
| Bupropion           | 4.773 | 19980 | 927.96   | 59.1    | 177.63   | 136461     | 4.9285 ng/ml |
| Carisoprodol        | 5.712 | 8225  | 429.14   | 62.1    | 77.47    | 84277      | 5.0062 ng/ml |
| Citalopram          | 5.215 | 10987 | 338.93   | 41.3    | 348.46   | 96646      | 5.2913 ng/ml |
| Clonazepam          | 5.600 | 1632  | 53.76    | 40.3    | 23.05    | 3890       | 4.7399 ng/ml |
| Cocaine             | 4.250 | 46179 | 7406.34  | 43.5    | 1298.80  | 635692     | 5.3124 ng/ml |
| Codeine             | 2.576 | 4898  | 559.35   | 100.7   | 768.05   | 39935      | 4.9139 ng/ml |
| Cyclobenzaprine     | 5.617 | 3947  | 11618.43 | 11.7    | 307.37   | 25404      | 5.0533 ng/ml |
| Dextromethorphan    | 5.258 | 5134  | 286.42   | 77.4    | 261.81   | 40286      | 5.4723 ng/ml |
| Dextrorphan         | 4.113 | 8212  | 550.57   | 222.6   | 908.71   | 226131     | 4.9220 ng/ml |
| Diazepam            | 5.941 | 10651 | 572.34   | 88.9    | 236.88   | 98859      | 4.9543 ng/ml |
| Dihydrocodeine      | 2.548 | 12834 | ∞        | 69.5    | 1142.57  | 133525     | 4.8277 ng/ml |
| Diphenhydramine     | 5.279 | 22531 | 722.16   | 32.8    | 188.16   | 339097     | 5.3958 ng/ml |
| Doxylamine          | 4.521 | 76211 | 1604.57  | 97.3    | 1051.27  | 590867     | 4.5744 ng/ml |
| EDDP                | 5.251 | 18204 | 395.60   | 43.5    | 1296.59  | 196033     | 5.0042 ng/ml |
| Fentanyl            | 5.079 | 375   | 25.19    | 73.7    | 732.95   | 40123      | 0.4971 ng/ml |
| Fluoxetine          | 5.702 | 3712  | 183.37   | 10.4    | 34.71    | 30794      | 4.9832 ng/ml |
| Hydrocodone         | 3.011 | 10370 | 144.04   | 42.4    | 132.94   | 127388     | 4.9045 ng/ml |
| Hydromorphone       | 1.608 | 7190  | 260.67   | 75.9    | 225.68   | 52201      | 5.0254 ng/ml |
| Ketamine            | 4.039 | 34192 | 348.39   | 37.6    | 263.24   | 302548     | 4.9499 ng/ml |
| Lamotrigine         | 4.274 | 3370  | 474.19   | 78.0    | 1010.13  | 302548     | 4.7511 ng/ml |
| Lorazepam           | 5.734 | 621   | ∞        | 60.3    | 2.09 Low | 3890       | 6.3253 ng/ml |
| Meprobamate         | 4.888 | 1387  | 299.18   | 32.1    | 28.58    | 14160      | 4.9737 ng/ml |
| Methadone           | 5.648 | 12360 | 464.62   | 51.3    | 74.83    | 110372     | 5.2868 ng/ml |
| Methamphetamine     | 3.208 | 21826 | 174.79   | 44.1    | 44.94    | 147298     | 4.8353 ng/ml |
| Metoprolol          | 4.313 | 7103  | 11005.29 | 94.4    | 994.60   | 772210     | 4.8342 ng/ml |

# AM #28 Multi-Drug Quant. Results

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| Name                 | RT    | Resp. | S/N             | Ratio | S/N             | ISTD Resp. | Final Conc.  |
|----------------------|-------|-------|-----------------|-------|-----------------|------------|--------------|
| Mirtazapine          | 4.609 | 26318 | 1507.70         | 49.9  | 2199.36         | 299546     | 5.0199 ng/ml |
| Mitragynine          | 5.214 | 1892  | 711.63          | 43.3  | 72.13           | 110372     | 4.3626 ng/ml |
| Morphine             | 1.240 | 1263  | 3751.27         | 23.5  | 157.60          | 2465       | 5.0500 ng/ml |
| Nordiazepam          | 5.881 | 1971  | 128.04          | 59.7  | 203.98          | 12028      | 4.9832 ng/ml |
| Norfentanyl          | 4.074 | 4101  | 6060.12         | 39.4  | 79.92           | 320649     | 0.5322 ng/ml |
| Norhydrocodone       | 3.059 | 1093  | 327.43          | 45.9  | 103.84          | 23281      | 5.0713 ng/ml |
| Noroxycodone         | 2.903 | 6641  | 70.82           | 47.2  | 302.94          | 39398      | 4.9795 ng/ml |
| O-desmethyl-tramadol | 3.367 | 94086 | 689.79          | 6.1   | 184.65          | 942767     | 5.0665 ng/ml |
| Oxazepam             | 5.744 | 551   | 7.75 <b>Low</b> | 76.2  | 4.07 <b>Low</b> | 7978       | 4.4671 ng/ml |
| Oxycodone            | 2.827 | 20164 | 499.11          | 32.8  | 832.97          | 180200     | 4.9199 ng/ml |
| Oxymorphone          | 1.396 | 3974  | 119.60          | 47.0  | 270.82          | 27454      | 4.9971 ng/ml |
| Phentermine          | 3.765 | 8222  | 201.52          | 2.4   | 6.88 <b>Low</b> | 164717     | 4.8263 ng/ml |
| Promethazine         | 5.534 | 8436  | 258.55          | 27.6  | 49.13           | 75257      | 5.0635 ng/ml |
| Quetiapine           | 5.530 | 20920 | 27477.65        | 57.2  | 2490.85         | 49527      | 4.9085 ng/ml |
| Sertraline           | 5.770 | 2543  | 178.03          | 88.8  | 322.77          | 18026      | 5.4528 ng/ml |
| Temazepam            | 5.805 | 6013  | 171.61          | 35.7  | 18.02           | 73719      | 4.9248 ng/ml |
| Tramadol             | 4.233 | 88613 | 1136.72         | 3.3   | 118.41          | 772210     | 4.9673 ng/ml |
| Trazodone            | 5.113 | 14782 | 2202.59         | 77.8  | ∞               | 109642     | 4.9973 ng/ml |
| Venlafaxine          | 5.027 | 47743 | 1980.91         | 36.5  | 283.61          | 495585     | 5.3827 ng/ml |
| Zolpidem             | 4.884 | 77560 | ∞               | 32.0  | 2035.42         | 733765     | 4.9054 ng/ml |

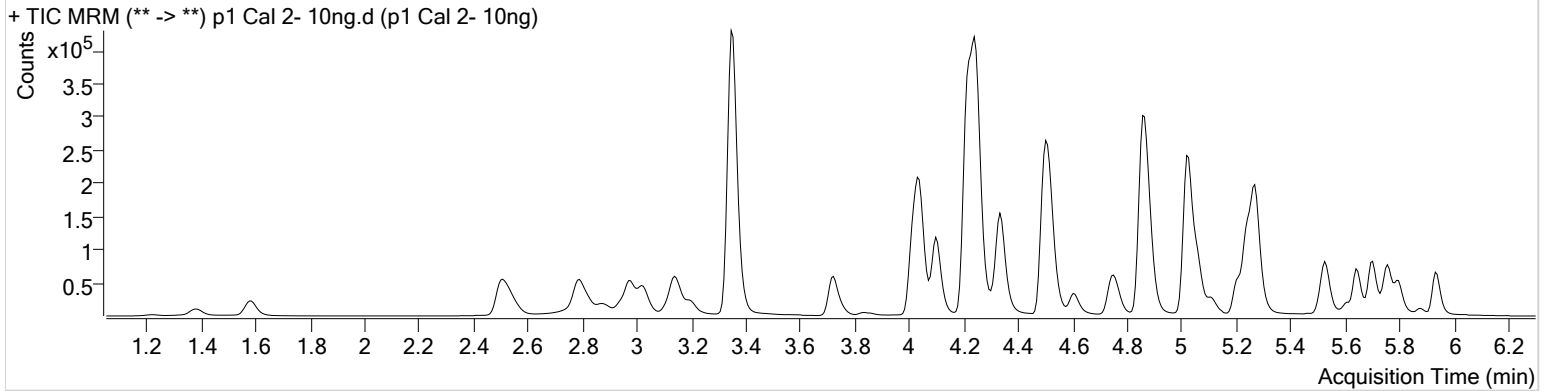
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 2- 10ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 2- 10ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle     |
| <b>Sample Position</b>  | P5-B1                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 1/16/2020 8:25:10 PM |                  |                  |

## Sample Chromatogram



| Name                | RT    | Resp.  | S/N      | Ratio            | S/N             | ISTD Resp. | Final Conc.   |
|---------------------|-------|--------|----------|------------------|-----------------|------------|---------------|
| 6-MAM               | 3.123 | 1146   | 5875.97  | 73.4             | ∞               | 23474      | 0.9913 ng/ml  |
| 7-aminoclonazepam   | 4.244 | 12568  | 979.39   | 84.3             | 149.14          | 48681      | 10.2855 ng/ml |
| a-hydroxyalprazolam | 5.680 | 2501   | 165.61   | 61.9             | ∞               | 4797       | 9.0939 ng/ml  |
| alpha-PVP           | 4.344 | 62072  | 4453.74  | 51.0             | 1161.70         | 277365     | 10.1457 ng/ml |
| Alprazolam          | 5.756 | 31391  | 821.11   | 104.2            | 321.29          | 78474      | 9.7162 ng/ml  |
| Amphetamine         | 3.028 | 47382  | 1218.31  | 50.7             | 752.78          | 46980      | 9.9359 ng/ml  |
| Benzoylcegonine     | 3.860 | 2762   | 272.13   | 7.4              | 54.78           | 9852       | 10.3557 ng/ml |
| Buprenorphine       | 5.747 | 680    | 18.89    | 19.3 <b>High</b> | ∞               | 24728      | 1.0692 ng/ml  |
| Bupropion           | 4.766 | 35444  | 361.22   | 58.3             | 439.23          | 127256     | 9.7484 ng/ml  |
| Carisoprodol        | 5.705 | 15548  | 720.68   | 58.9             | 72.28           | 81280      | 9.8908 ng/ml  |
| Citalopram          | 5.209 | 20527  | 833.10   | 41.2             | 6018.56         | 95184      | 10.0593 ng/ml |
| Clonazepam          | 5.593 | 3327   | 185.77   | 34.6             | 965.08          | 3350       | 11.1810 ng/ml |
| Cocaine             | 4.243 | 83076  | 16141.13 | 41.4             | 10102.71        | 593049     | 10.2714 ng/ml |
| Codeine             | 2.563 | 9116   | 4297.58  | 102.2            | 11675.27        | 38553      | 10.1205 ng/ml |
| Cyclobenzaprine     | 5.610 | 6874   | ∞        | 10.4             | 27.32           | 23752      | 9.9632 ng/ml  |
| Dextromethorphan    | 5.252 | 8664   | 448.58   | 82.8             | 175.27          | 40593      | 9.4091 ng/ml  |
| Dextrorphan         | 4.100 | 16233  | 57285.41 | 207.6            | 8886.54         | 217445     | 10.1350 ng/ml |
| Diazepam            | 5.941 | 20136  | 1518.32  | 88.4             | 274.57          | 95833      | 10.0739 ng/ml |
| Dihydrocodeine      | 2.534 | 24265  | 3249.33  | 65.9             | 2193.77         | 130744     | 10.2623 ng/ml |
| Diphenhydramine     | 5.272 | 41624  | 4339.73  | 34.1             | 2305.95         | 330503     | 10.0491 ng/ml |
| Doxylamine          | 4.514 | 135550 | 3894.05  | 98.1             | 3002.74         | 564223     | 9.6055 ng/ml  |
| EDDP                | 5.244 | 35700  | 1148.01  | 41.7             | 703.78          | 195048     | 10.0593 ng/ml |
| Fentanyl            | 5.079 | 738    | 75.14    | 75.3             | 2981.47         | 39222      | 1.0134 ng/ml  |
| Fluoxetine          | 5.702 | 6749   | ∞        | 9.1              | 62.24           | 29229      | 9.8490 ng/ml  |
| Hydrocodone         | 3.005 | 19018  | 774.27   | 41.4             | 84.66           | 122671     | 10.1787 ng/ml |
| Hydromorphone       | 1.587 | 13001  | 185.54   | 77.4             | 511.55          | 49348      | 9.9452 ng/ml  |
| Ketamine            | 4.033 | 60302  | 1468.33  | 38.6             | 340.80          | 280834     | 9.9233 ng/ml  |
| Lamotrigine         | 4.261 | 6337   | 847.40   | 76.2             | 1540.49         | 280834     | 10.5983 ng/ml |
| Lorazepam           | 5.734 | 1297   | 10.46    | 61.6             | 9.86 <b>Low</b> | 3350       | 12.5709 ng/ml |
| Meprobamate         | 4.881 | 2591   | 2434.29  | 27.0             | 60.09           | 14034      | 9.7283 ng/ml  |
| Methadone           | 5.648 | 22337  | 282.37   | 54.1             | 1706.43         | 105895     | 9.9635 ng/ml  |
| Methamphetamine     | 3.202 | 34280  | 148.68   | 40.4             | 163.07          | 130692     | 10.3278 ng/ml |
| Metoprolol          | 4.306 | 13077  | 22605.77 | 95.5             | 743.04          | 728403     | 10.4022 ng/ml |



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# AM #28 Multi-Drug Quant. Results

| Name                 | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|----------------------|-------|--------|----------|-------|----------|------------|---------------|
| Mirtazapine          | 4.602 | 50299  | 4699.91  | 49.8  | 728.96   | 277365     | 10.1809 ng/ml |
| Mitragynine          | 5.207 | 3582   | 9962.83  | 39.0  | 129.94   | 105895     | 9.8238 ng/ml  |
| Morphine             | 1.226 | 2206   | 1702.17  | 25.0  | 662.88   | 2365       | 9.6873 ng/ml  |
| Nordiazepam          | 5.881 | 3700   | 784.66   | 57.0  | 354.13   | 11490      | 9.9961 ng/ml  |
| Norfentanyl          | 4.068 | 7203   | 234.85   | 39.3  | 153.74   | 314158     | 0.9199 ng/ml  |
| Norhydrocodone       | 3.046 | 2314   | 162.03   | 37.4  | 318.93   | 21648      | 10.2712 ng/ml |
| Noroxycodone         | 2.889 | 12042  | 274.05   | 49.0  | 11.52    | 37583      | 9.8993 ng/ml  |
| O-desmethyl-tramadol | 3.354 | 168529 | 2431.08  | 6.1   | 584.01   | 909161     | 9.8019 ng/ml  |
| Oxazepam             | 5.738 | 1115   | 20.65    | 67.4  | 5.57     | 7673       | 9.5242 ng/ml  |
| Oxycodone            | 2.821 | 38284  | 894.64   | 31.1  | ∞        | 170992     | 10.2336 ng/ml |
| Oxymorphone          | 1.383 | 7380   | ∞        | 48.9  | 214.14   | 26929      | 9.7876 ng/ml  |
| Phentermine          | 3.758 | 13238  | 350.22   | 2.4   | 13.42    | 152928     | 10.0308 ng/ml |
| Promethazine         | 5.527 | 15420  | 491.39   | 28.9  | 102.68   | 70395      | 9.9727 ng/ml  |
| Quetiapine           | 5.530 | 40732  | 6869.36  | 58.2  | 1908.92  | 50550      | 10.1783 ng/ml |
| Sertraline           | 5.770 | 4249   | 128.02   | 87.7  | 106.87   | 17938      | 9.5719 ng/ml  |
| Temazepam            | 5.805 | 12876  | 76.91    | 31.1  | 18.20    | 70477      | 10.4670 ng/ml |
| Tramadol             | 4.226 | 145968 | 8235.64  | 3.2   | 166.94   | 728403     | 9.8825 ng/ml  |
| Trazodone            | 5.113 | 27730  | 1148.28  | 76.1  | ∞        | 110010     | 9.9433 ng/ml  |
| Venlafaxine          | 5.027 | 88647  | 532.82   | 36.5  | 359.14   | 482520     | 10.0624 ng/ml |
| Zolpidem             | 4.878 | 143716 | 19201.47 | 31.0  | 12788.48 | 692022     | 10.1157 ng/ml |

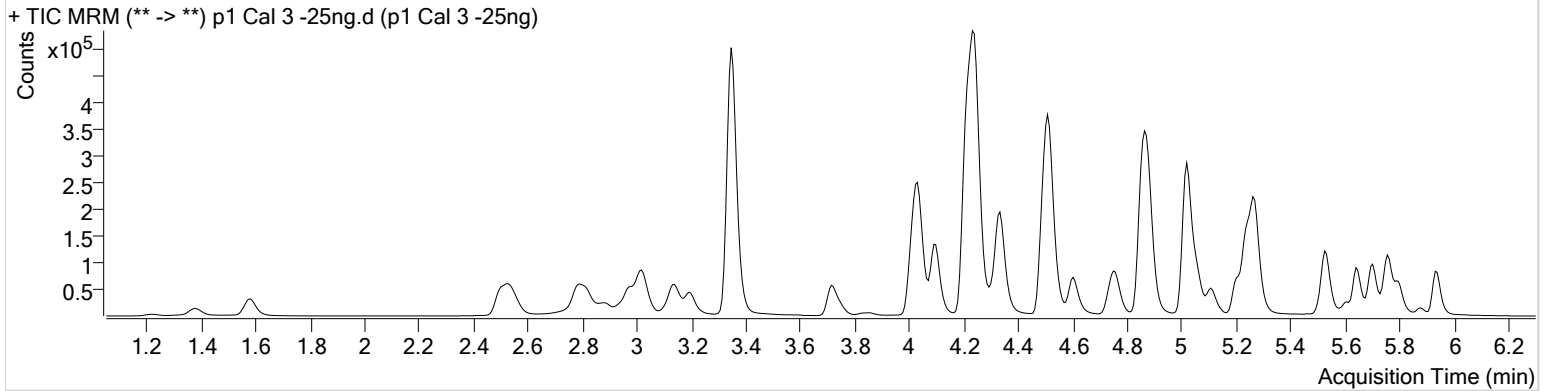
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 3 -25ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 3 -25ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle     |
| <b>Sample Position</b>  | P5-C1                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 1/16/2020 8:35:45 PM |                  |                  |

## Sample Chromatogram



| Name                | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|--------|----------|-------|----------|------------|---------------|
| 6-MAM               | 3.116 | 2652   | 8357.13  | 69.7  | 427.99   | 21777      | 2.4839 ng/ml  |
| 7-aminoclonazepam   | 4.237 | 31557  | 414.17   | 78.8  | 859.42   | 48066      | 27.7904 ng/ml |
| a-hydroxyalprazolam | 5.680 | 6073   | 149.62   | 57.5  | ∞        | 3989       | 27.8737 ng/ml |
| alpha-PVP           | 4.344 | 140290 | 3903.20  | 50.5  | 507.70   | 260768     | 24.5038 ng/ml |
| Alprazolam          | 5.756 | 71613  | 1694.34  | 102.8 | 3101.43  | 70107      | 25.2006 ng/ml |
| Amphetamine         | 3.021 | 108906 | 1459.19  | 49.5  | ∞        | 44707      | 27.4006 ng/ml |
| Benzoylcegonine     | 3.853 | 6134   | 277.70   | 7.4   | 31.26    | 9304       | 24.0648 ng/ml |
| Buprenorphine       | 5.747 | 1529   | ∞        | 13.6  | ∞        | 22137      | 2.5780 ng/ml  |
| Bupropion           | 4.759 | 84029  | 3966.31  | 58.5  | 690.78   | 120295     | 25.0718 ng/ml |
| Carisoprodol        | 5.705 | 35739  | 741.80   | 53.5  | 190.10   | 73339      | 25.3234 ng/ml |
| Citalopram          | 5.202 | 45759  | 1989.24  | 41.8  | 37628.55 | 88021      | 24.2845 ng/ml |
| Clonazepam          | 5.593 | 7886   | 416.61   | 35.3  | 303.13   | 3689       | 24.0350 ng/ml |
| Cocaine             | 4.243 | 188065 | 10149.85 | 43.7  | 1386.56  | 573267     | 24.0939 ng/ml |
| Codeine             | 2.556 | 20629  | 457.26   | 102.0 | 1489.67  | 36126      | 25.4254 ng/ml |
| Cyclobenzaprine     | 5.610 | 14935  | 36782.10 | 10.7  | 108.43   | 22472      | 23.7062 ng/ml |
| Dextromethorphan    | 5.245 | 19992  | 16004.03 | 80.1  | ∞        | 36876      | 24.4588 ng/ml |
| Dextrorphan         | 4.100 | 36250  | 2464.73  | 208.3 | ∞        | 197178     | 24.9824 ng/ml |
| Diazepam            | 5.941 | 45260  | 1632.43  | 89.2  | 8904.67  | 88615      | 25.1092 ng/ml |
| Dihydrocodeine      | 2.534 | 55652  | 21648.46 | 67.8  | 938.22   | 122013     | 26.6943 ng/ml |
| Diphenhydramine     | 5.272 | 94372  | 13992.29 | 33.3  | 1388.34  | 302045     | 24.6357 ng/ml |
| Doxylamine          | 4.514 | 322553 | 4555.88  | 98.0  | 8775.80  | 549156     | 25.3018 ng/ml |
| EDDP                | 5.244 | 76949  | 323.16   | 43.1  | 13605.84 | 175722     | 24.3479 ng/ml |
| Fentanyl            | 5.072 | 1664   | 577.66   | 68.7  | ∞        | 36561      | 2.4714 ng/ml  |
| Fluoxetine          | 5.702 | 15772  | 665.50   | 8.5   | 4910.63  | 27554      | 24.9063 ng/ml |
| Hydrocodone         | 3.005 | 44637  | ∞        | 40.6  | 177.44   | 119931     | 25.7336 ng/ml |
| Hydromorphone       | 1.587 | 30224  | 1220.10  | 80.6  | 1342.14  | 46971      | 24.8157 ng/ml |
| Ketamine            | 4.026 | 144936 | 18562.77 | 38.0  | 1405.40  | 267780     | 25.8896 ng/ml |
| Lamotrigine         | 4.254 | 14836  | 1471.88  | 78.5  | ∞        | 267780     | 27.4031 ng/ml |
| Lorazepam           | 5.734 | 2675   | 30.02    | 59.0  | 11.85    | 3689       | 21.8491 ng/ml |
| Meprobamate         | 4.875 | 6506   | 302.70   | 26.6  | 90.97    | 13362      | 26.3056 ng/ml |
| Methadone           | 5.648 | 50744  | 1758.34  | 54.5  | 1776.53  | 99744      | 24.0391 ng/ml |
| Methamphetamine     | 3.195 | 75095  | 281.90   | 41.7  | 967.07   | 127833     | 25.9780 ng/ml |
| Metoprolol          | 4.306 | 28769  | 74700.99 | 100.8 | 1332.50  | 702783     | 25.0193 ng/ml |

# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|----------------------|-------|--------|----------|-------|----------|------------|---------------|
| Mirtazapine          | 4.602 | 112020 | 31031.51 | 49.9  | 3044.61  | 260768     | 23.8845 ng/ml |
| Mitragynine          | 5.207 | 8176   | ∞        | 41.1  | 8515.29  | 99744      | 25.5833 ng/ml |
| Morphine             | 1.226 | 5523   | 6109.92  | 23.2  | 1210.18  | 2344       | 25.3945 ng/ml |
| Nordiazepam          | 5.881 | 8675   | 474.47   | 55.7  | 569.90   | 10943      | 24.9199 ng/ml |
| Norfentanyl          | 4.061 | 18146  | 633.24   | 37.2  | 466.11   | 305546     | 2.3146 ng/ml  |
| Norhydrocodone       | 3.046 | 5322   | 121.48   | 43.3  | 251.53   | 21449      | 22.5273 ng/ml |
| Noroxycodone         | 2.889 | 29283  | 537.98   | 49.2  | 17.17    | 36145      | 25.7648 ng/ml |
| O-desmethyl-tramadol | 3.354 | 385690 | 2408.04  | 6.1   | 993.94   | 850936     | 24.6270 ng/ml |
| Oxazepam             | 5.738 | 2808   | 40.92    | 82.3  | ∞        | 6670       | 27.8113 ng/ml |
| Oxycodone            | 2.814 | 88890  | 1557.68  | 32.6  | 1298.54  | 165082     | 25.1582 ng/ml |
| Oxymorphone          | 1.383 | 17653  | 1000.82  | 47.4  | 246.31   | 24885      | 25.9114 ng/ml |
| Phentermine          | 3.751 | 30061  | 487.81   | 2.3   | 17.19    | 145048     | 27.1716 ng/ml |
| Promethazine         | 5.527 | 35334  | 2264.49  | 31.4  | 578.70   | 64800      | 24.9451 ng/ml |
| Quetiapine           | 5.530 | 88524  | ∞        | 59.2  | 22049.11 | 46793      | 25.1064 ng/ml |
| Sertraline           | 5.770 | 8937   | 408.35   | 96.1  | 313.98   | 15760      | 23.7666 ng/ml |
| Temazepam            | 5.805 | 28560  | 235.00   | 30.8  | 188.85   | 66153      | 24.1152 ng/ml |
| Tramadol             | 4.226 | 333538 | 7137.40  | 3.4   | 519.89   | 702783     | 25.6196 ng/ml |
| Trazodone            | 5.106 | 62067  | 3655.65  | 79.4  | 21470.03 | 101945     | 24.9932 ng/ml |
| Venlafaxine          | 5.020 | 196270 | 1598.49  | 37.2  | 2132.07  | 437076     | 24.2728 ng/ml |
| Zolpidem             | 4.878 | 338710 | 13897.74 | 30.9  | 23616.37 | 654470     | 25.9477 ng/ml |

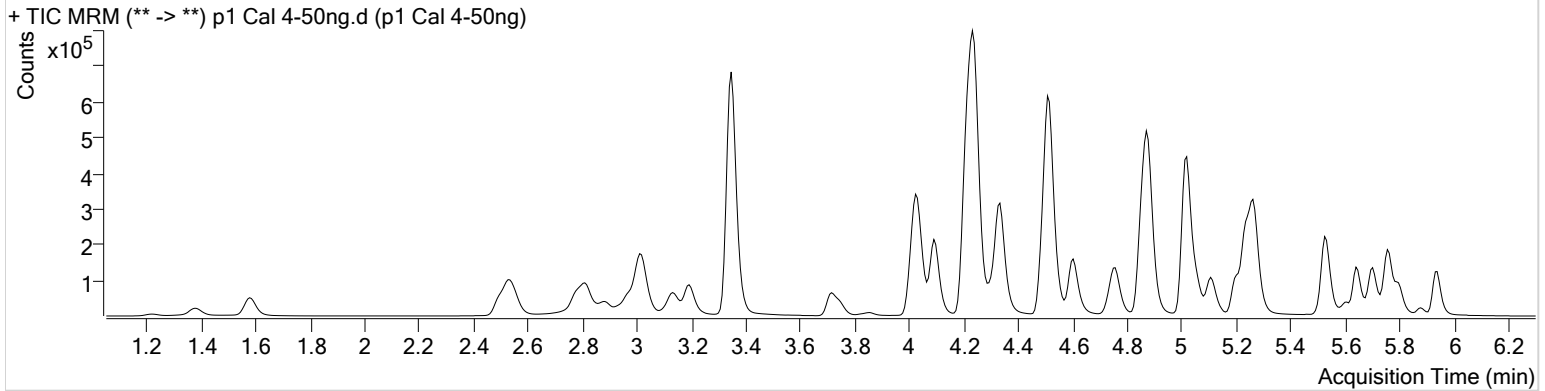
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                 |
|-------------------------|----------------------|------------------|-----------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 4-50ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 4-50ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle    |
| <b>Sample Position</b>  | P5-D1                | <b>Comment</b>   |                 |
| <b>Injection Volume</b> | 2                    |                  |                 |
| <b>Acq. Date-Time</b>   | 1/16/2020 8:46:20 PM |                  |                 |

## Sample Chromatogram



| Name                | RT    | Resp.  | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|--------|-----------|-------|----------|------------|---------------|
| 6-MAM               | 3.116 | 5663   | ∞         | 69.7  | 8232.46  | 22504      | 5.1404 ng/ml  |
| 7-aminoclonazepam   | 4.237 | 58104  | 8830.36   | 80.9  | 3089.83  | 46747      | 53.5582 ng/ml |
| a-hydroxyalprazolam | 5.680 | 11955  | 188.43    | 62.5  | 401.92   | 4293       | 51.5485 ng/ml |
| alpha-PVP           | 4.337 | 314098 | 49451.27  | 51.1  | 1360.52  | 286830     | 49.9612 ng/ml |
| Alprazolam          | 5.756 | 143592 | 1082.75   | 100.0 | 1440.96  | 69867      | 50.9567 ng/ml |
| Amphetamine         | 3.021 | 246706 | 5633.07   | 51.5  | 6151.25  | 51833      | 55.8304 ng/ml |
| Benzoylcegonine     | 3.853 | 12238  | 1063.98   | 8.4   | 48.45    | 9264       | 48.0103 ng/ml |
| Buprenorphine       | 5.747 | 3021   | 41.25     | 15.8  | 374.32   | 22802      | 4.8786 ng/ml  |
| Bupropion           | 4.759 | 172509 | 1921.66   | 58.2  | 1721.80  | 122147     | 51.1131 ng/ml |
| Carisoprodol        | 5.705 | 75530  | 269040.36 | 52.9  | 680.95   | 76415      | 51.4467 ng/ml |
| Citalopram          | 5.202 | 101842 | 697.35    | 41.6  | 882.11   | 93895      | 50.6927 ng/ml |
| Clonazepam          | 5.593 | 16194  | 829.96    | 34.2  | 1718.80  | 3568       | 51.0100 ng/ml |
| Cocaine             | 4.237 | 407580 | 70751.22  | 42.3  | 20973.25 | 600456     | 49.8839 ng/ml |
| Codeine             | 2.556 | 43362  | 835.22    | 102.4 | 710.39   | 36642      | 53.4390 ng/ml |
| Cyclobenzaprine     | 5.610 | 31359  | 43295.11  | 10.4  | 174.20   | 22134      | 51.2575 ng/ml |
| Dextromethorphan    | 5.245 | 42700  | 459.65    | 81.3  | ∞        | 39175      | 49.5400 ng/ml |
| Dextrorphan         | 4.093 | 84582  | 55202.44  | 210.3 | 34599.17 | 226638     | 50.7314 ng/ml |
| Diazepam            | 5.941 | 94341  | 897.64    | 85.8  | 1943.85  | 89379      | 52.3542 ng/ml |
| Dihydrocodeine      | 2.528 | 118138 | 6417.14   | 66.6  | 1804.66  | 129449     | 54.4226 ng/ml |
| Diphenhydramine     | 5.272 | 208254 | ∞         | 34.3  | 327.56   | 331418     | 49.3451 ng/ml |
| Doxylamine          | 4.514 | 654016 | 36287.43  | 97.1  | 6721.71  | 555656     | 51.9653 ng/ml |
| EDDP                | 5.237 | 176743 | 1707.97   | 41.9  | 15654.76 | 193553     | 50.9917 ng/ml |
| Fentanyl            | 5.072 | 3456   | 817.99    | 63.9  | ∞        | 37303      | 5.0453 ng/ml  |
| Fluoxetine          | 5.702 | 28709  | 2182.80   | 8.8   | ∞        | 24334      | 51.6903 ng/ml |
| Hydrocodone         | 2.998 | 92887  | 317.48    | 42.7  | 129.56   | 126673     | 51.5993 ng/ml |
| Hydromorphone       | 1.587 | 63101  | 994.27    | 79.1  | 564.05   | 49002      | 50.0264 ng/ml |
| Ketamine            | 4.026 | 307370 | 17987.49  | 38.5  | 1117.70  | 279745     | 53.1500 ng/ml |
| Lamotrigine         | 4.254 | 29019  | ∞         | 80.6  | ∞        | 279745     | 52.1361 ng/ml |
| Lorazepam           | 5.728 | 6365   | 77.55     | 55.2  | 29.22    | 3568       | 50.9303 ng/ml |
| Meprobamate         | 4.875 | 12919  | 8684.22   | 27.6  | 203.41   | 13000      | 54.1054 ng/ml |
| Methadone           | 5.641 | 110724 | 4162.14   | 53.6  | 650.34   | 104577     | 50.0358 ng/ml |
| Methamphetamine     | 3.195 | 158828 | 881.23    | 42.5  | 367.55   | 136226     | 53.8204 ng/ml |
| Metoprolol          | 4.306 | 66148  | ∞         | 97.0  | 10185.74 | 752767     | 54.8716 ng/ml |

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# AM #28 Multi-Drug Quant. Results

| Name                 | RT    | Resp.  | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|----------------------|-------|--------|-----------|-------|----------|------------|---------------|
| Mirtazapine          | 4.602 | 255323 | 141849.81 | 49.9  | 2559.54  | 286830     | 49.3103 ng/ml |
| Mitragynine          | 5.207 | 16565  | 1493.26   | 40.9  | 623.33   | 104577     | 50.5980 ng/ml |
| Morphine             | 1.226 | 10959  | 635.80    | 23.9  | 875.81   | 2333       | 51.2267 ng/ml |
| Nordiazepam          | 5.881 | 18050  | ∞         | 53.0  | 376.69   | 10889      | 52.3424 ng/ml |
| Norfentanyl          | 4.061 | 35821  | 1402.00   | 37.1  | 179.36   | 296852     | 4.6587 ng/ml  |
| Norhydrocodone       | 3.039 | 12628  | 170.22    | 41.1  | 216.27   | 23815      | 47.0080 ng/ml |
| Noroxycodone         | 2.883 | 60908  | 1017.32   | 48.7  | 1104.73  | 37952      | 51.5115 ng/ml |
| O-desmethyl-tramadol | 3.348 | 806179 | 41821.70  | 6.1   | 1354.65  | 882995     | 50.0699 ng/ml |
| Oxazepam             | 5.738 | 5247   | 47.13     | 72.7  | 54.20    | 6791       | 51.1317 ng/ml |
| Oxycodone            | 2.807 | 188147 | 2765.34   | 32.0  | 8252.40  | 172417     | 51.3844 ng/ml |
| Oxymorphone          | 1.383 | 36086  | 358.52    | 47.5  | 310.97   | 25621      | 51.8049 ng/ml |
| Phentermine          | 3.751 | 67692  | 1116.33   | 2.1   | 46.77    | 161121     | 57.4060 ng/ml |
| Promethazine         | 5.527 | 74743  | 3125.23   | 30.5  | 1020.07  | 68273      | 50.1640 ng/ml |
| Quetiapine           | 5.530 | 206534 | 2082.47   | 58.0  | 8882.76  | 51675      | 54.0400 ng/ml |
| Sertraline           | 5.770 | 19323  | 365.72    | 87.0  | 4596.66  | 16302      | 50.3416 ng/ml |
| Temazepam            | 5.805 | 59766  | 344.57    | 31.4  | 341.69   | 66509      | 49.7030 ng/ml |
| Tramadol             | 4.219 | 710227 | 4447.58   | 3.3   | 1432.47  | 752767     | 52.5305 ng/ml |
| Trazodone            | 5.106 | 139586 | 22273.35  | 80.0  | ∞        | 112380     | 51.7077 ng/ml |
| Venlafaxine          | 5.020 | 457488 | 2567.81   | 36.7  | 2770.44  | 496472     | 49.5742 ng/ml |
| Zolpidem             | 4.878 | 704519 | 809.87    | 31.3  | 20045.77 | 677829     | 52.6110 ng/ml |

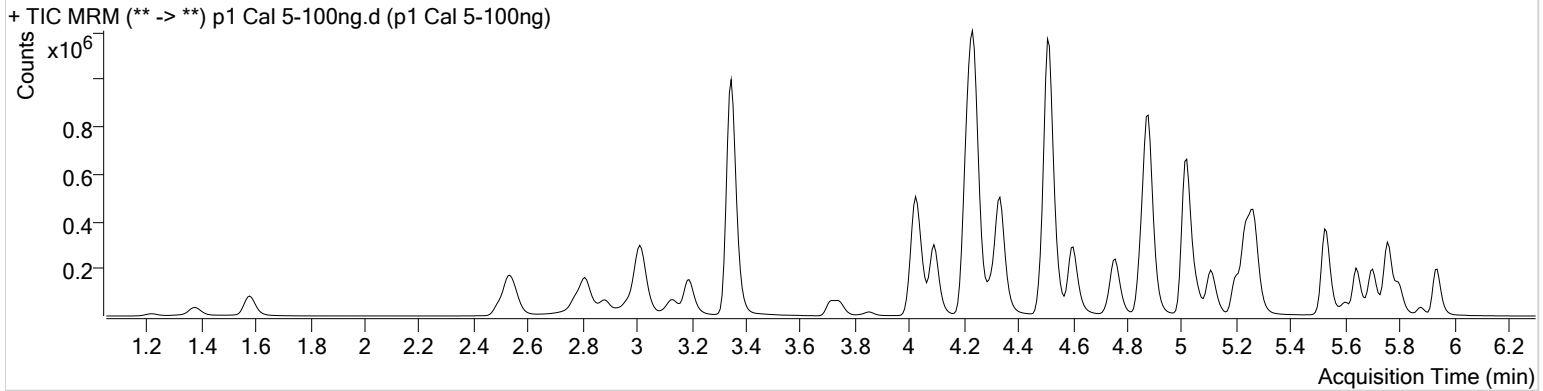
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 5-100ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 5-100ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle     |
| <b>Sample Position</b>  | P5-E1                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 1/16/2020 8:56:55 PM |                  |                  |

## Sample Chromatogram



| Name                | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|---------------------|-------|---------|-----------|-------|----------|------------|----------------|
| 6-MAM               | 3.116 | 10523   | 1762.02   | 74.0  | 758.68   | 22875      | 9.4019 ng/ml   |
| 7-aminoclonazepam   | 4.231 | 113970  | 5944.23   | 82.4  | 13720.92 | 48213      | 102.8148 ng/ml |
| a-hydroxyalprazolam | 5.680 | 22836   | 2592.72   | 61.7  | 1223.42  | 4425       | 96.0989 ng/ml  |
| alpha-PVP           | 4.337 | 605680  | 44587.50  | 51.1  | 1922.42  | 282149     | 98.0172 ng/ml  |
| Alprazolam          | 5.756 | 269159  | 1129.81   | 103.1 | 1834.67  | 67535      | 99.0500 ng/ml  |
| Amphetamine         | 3.021 | 427012  | 3023.68   | 51.2  | 10658.35 | 49291      | 103.5917 ng/ml |
| Benzoylcegonine     | 3.853 | 25216   | 4086.34   | 7.3   | 106.19   | 9315       | 98.1537 ng/ml  |
| Buprenorphine       | 5.747 | 5196    | ∞         | 17.4  | 720.52   | 20162      | 9.4220 ng/ml   |
| Bupropion           | 4.759 | 345454  | 1104.50   | 57.8  | 951.13   | 125193     | 100.2592 ng/ml |
| Carisoprodol        | 5.705 | 140373  | 1053.57   | 54.8  | 216.61   | 75226      | 97.1982 ng/ml  |
| Citalopram          | 5.202 | 186054  | 8796.67   | 42.5  | 35984.20 | 90079      | 96.5568 ng/ml  |
| Clonazepam          | 5.593 | 32142   | 2349.93   | 33.9  | 21362.84 | 3757       | 96.1229 ng/ml  |
| Cocaine             | 4.237 | 753736  | 152752.41 | 43.8  | 45295.10 | 576406     | 96.1262 ng/ml  |
| Codeine             | 2.556 | 81747   | ∞         | 101.1 | 9750.73  | 35855      | 103.6027 ng/ml |
| Cyclobenzaprine     | 5.610 | 53867   | 3155.48   | 10.6  | 226.15   | 20057      | 97.7377 ng/ml  |
| Dextromethorphan    | 5.245 | 75719   | 6696.58   | 79.7  | 8311.85  | 35121      | 98.3412 ng/ml  |
| Dextrorphan         | 4.093 | 152691  | 548908.76 | 210.9 | 5077.03  | 211427     | 98.1862 ng/ml  |
| Diazepam            | 5.941 | 179272  | 723.81    | 86.6  | 10434.40 | 88996      | 100.3086 ng/ml |
| Dihydrocodeine      | 2.528 | 219897  | 3042.85   | 68.3  | 3702.34  | 129732     | 101.9456 ng/ml |
| Diphenhydramine     | 5.272 | 378096  | 1878.60   | 33.5  | 10180.20 | 309190     | 95.8409 ng/ml  |
| Doxylamine          | 4.514 | 1366523 | 21043.89  | 97.8  | 55187.50 | 598134     | 102.0509 ng/ml |
| EDDP                | 5.237 | 343599  | 29971.28  | 41.5  | ∞        | 194843     | 98.6623 ng/ml  |
| Fentanyl            | 5.072 | 6316    | 532.98    | 62.2  | 4880.36  | 33590      | 10.2550 ng/ml  |
| Fluoxetine          | 5.702 | 50931   | ∞         | 8.6   | 184.17   | 23334      | 95.9126 ng/ml  |
| Hydrocodone         | 2.998 | 177393  | 453.70    | 42.8  | ∞        | 123442     | 102.0108 ng/ml |
| Hydromorphone       | 1.581 | 121267  | 1687.82   | 79.2  | 2253.45  | 48691      | 97.0953 ng/ml  |
| Ketamine            | 4.026 | 592734  | 35225.72  | 38.7  | 408.27   | 283889     | 101.5174 ng/ml |
| Lamotrigine         | 4.254 | 54807   | 8906.32   | 80.5  | 10665.93 | 283889     | 97.8470 ng/ml  |
| Lorazepam           | 5.728 | 11973   | 81.84     | 57.8  | 33.13    | 3757       | 89.4513 ng/ml  |
| Meprobamate         | 4.875 | 25500   | 1306.88   | 26.6  | 721.11   | 13513      | 103.1038 ng/ml |
| Methadone           | 5.641 | 201770  | 1374.34   | 52.7  | 9659.48  | 97321      | 97.9833 ng/ml  |
| Methamphetamine     | 3.195 | 290415  | 1518.09   | 42.6  | 471.37   | 132075     | 103.5376 ng/ml |
| Metoprolol          | 4.299 | 123521  | 10210.60  | 96.3  | 6636.46  | 722749     | 107.6808 ng/ml |

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# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine          | 4.602 | 471161  | 5832.60   | 50.4  | 14224.71 | 282149     | 92.3558 ng/ml  |
| Mitragynine          | 5.207 | 31300   | 6911.63   | 38.3  | 2243.55  | 97321      | 104.0193 ng/ml |
| Morphine             | 1.220 | 21310   | 7891.72   | 22.9  | 708.99   | 2335       | 100.1113 ng/ml |
| Nordiazepam          | 5.881 | 34548   | 536.49    | 56.5  | 907.35   | 10914      | 100.1384 ng/ml |
| Norfentanyl          | 4.061 | 71147   | 27352.49  | 36.2  | 1564.88  | 296793     | 9.2125 ng/ml   |
| Norhydrocodone       | 3.039 | 27252   | 914.28    | 42.2  | 146.83   | 25927      | 92.2036 ng/ml  |
| Noroxycodone         | 2.883 | 115490  | 902.48    | 49.5  | 1437.70  | 37036      | 100.5404 ng/ml |
| O-desmethyl-tramadol | 3.348 | 1568792 | 4300.61   | 6.1   | 960.22   | 881072     | 98.0804 ng/ml  |
| Oxazepam             | 5.738 | 10225   | 236.70    | 70.6  | 60.24    | 6807       | 99.5201 ng/ml  |
| Oxycodone            | 2.807 | 370554  | 4689.82   | 31.8  | 1388.53  | 173548     | 100.9138 ng/ml |
| Oxymorphone          | 1.376 | 70709   | 968.88    | 48.0  | 403.00   | 26071      | 100.0960 ng/ml |
| Phentermine          | 3.745 | 118328  | 1314.67   | 2.2   | 157.19   | 155708     | 105.6666 ng/ml |
| Promethazine         | 5.527 | 126619  | 2027.83   | 29.6  | 493.53   | 58454      | 99.3343 ng/ml  |
| Quetiapine           | 5.530 | 383060  | 345500.84 | 59.4  | 3283.42  | 51685      | 100.9760 ng/ml |
| Sertraline           | 5.770 | 29434   | 1089.17   | 87.5  | 219.39   | 12263      | 102.5686 ng/ml |
| Temazepam            | 5.805 | 121328  | ∞         | 29.9  | 251.61   | 68427      | 97.6297 ng/ml  |
| Tramadol             | 4.219 | 1342735 | 33598.20  | 3.4   | 2278.67  | 722749     | 105.0060 ng/ml |
| Trazodone            | 5.106 | 259796  | 29160.23  | 79.4  | 60992.57 | 108698     | 100.1357 ng/ml |
| Venlafaxine          | 5.020 | 866258  | 88443.23  | 36.6  | 1290.58  | 483731     | 96.1312 ng/ml  |
| Zolpidem             | 4.878 | 1374959 | 1870.81   | 31.3  | 618.18   | 690699     | 101.2172 ng/ml |

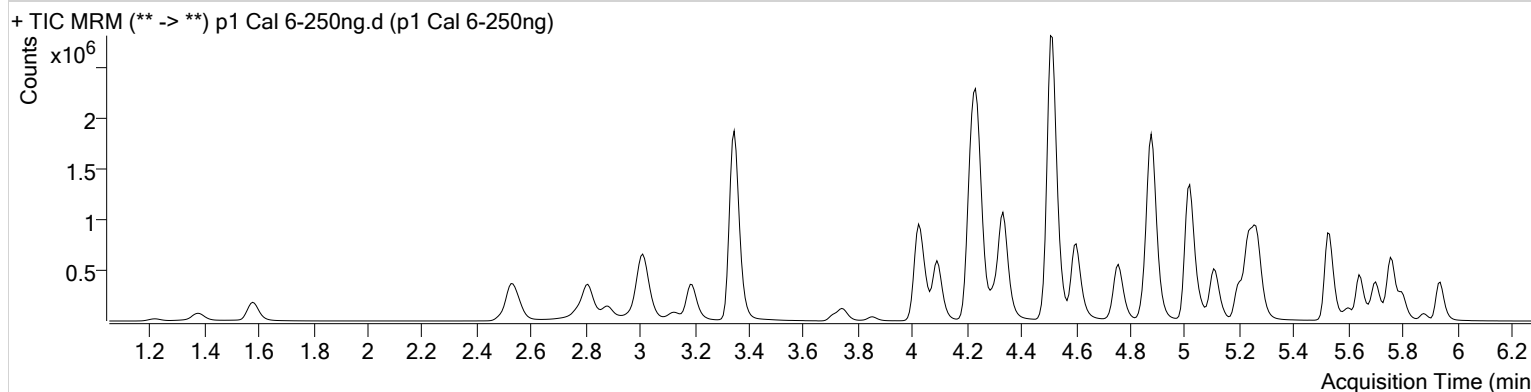
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

**Instrument** Falco **Data File** p1 Cal 6-250ng.d  
**Type** Cal **Sample** p1 Cal 6-250ng  
**Acq. Method** MDQ P1 01112020.m **Operator** Sarah Pickle  
**Sample Position** P5-F1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 1/16/2020 9:07:30 PM  
**Sample Info.**

## Sample Chromatogram



| Name                | RT    | Resp.   | S/N       | Ratio | S/N        | ISTD Resp. | Final Conc.    |
|---------------------|-------|---------|-----------|-------|------------|------------|----------------|
| 6-MAM               | 3.109 | 26983   | 4707.67   | 72.7  | 2893.83    | 22093      | 24.9751 ng/ml  |
| 7-aminoclonazepam   | 4.231 | 227709  | 555.50    | 81.2  | 8316.10    | 41757      | 238.5682 ng/ml |
| a-hydroxyalprazolam | 5.680 | 58105   | 553.85    | 59.9  | 999.39     | 4894       | 222.0010 ng/ml |
| alpha-PVP           | 4.337 | 1497529 | 7592.98   | 50.6  | 5819.94    | 273820     | 249.8420 ng/ml |
| Alprazolam          | 5.756 | 594271  | 3261.51   | 103.7 | 1477.33    | 58742      | 251.8128 ng/ml |
| Amphetamine         | 3.014 | 959718  | 11957.36  | 51.4  | 23464.08   | 48661      | 238.9067 ng/ml |
| Benzoylcegonine     | 3.853 | 65819   | 4015.30   | 7.8   | 1454.09    | 9847       | 242.0543 ng/ml |
| Buprenorphine       | 5.753 | 12178   | 373.59    | 16.0  | ∞          | 19267      | 23.0051 ng/ml  |
| Bupropion           | 4.759 | 860469  | 2588.72   | 57.3  | 60320.14   | 123365     | 254.0609 ng/ml |
| Carisoprodol        | 5.705 | 333118  | 2972.12   | 54.5  | 2156.01    | 68676      | 252.7913 ng/ml |
| Citalopram          | 5.202 | 484835  | 1278.15   | 41.3  | 1171.48    | 92907      | 243.9937 ng/ml |
| Clonazepam          | 5.593 | 83153   | 1184.59   | 33.3  | 533.46     | 3584       | 260.5840 ng/ml |
| Cocaine             | 4.237 | 1782456 | 70643.12  | 42.3  | 3847093.23 | 534225     | 245.3158 ng/ml |
| Codeine             | 2.556 | 179040  | 1381.19   | 102.2 | 1443.74    | 32847      | 248.6570 ng/ml |
| Cyclobenzaprine     | 5.610 | 136399  | 64876.97  | 10.3  | 2733.80    | 20073      | 248.2598 ng/ml |
| Dextromethorphan    | 5.245 | 196651  | 1281.35   | 79.4  | 25198.75   | 35825      | 250.9500 ng/ml |
| Dextrorphan         | 4.093 | 377498  | 2778.72   | 209.1 | 62161.43   | 203490     | 252.2398 ng/ml |
| Diazepam            | 5.941 | 400919  | 1161.26   | 87.8  | 5530.39    | 80158      | 249.7046 ng/ml |
| Dihydrocodeine      | 2.528 | 515146  | 38600.35  | 67.6  | 1945.09    | 129204     | 241.1679 ng/ml |
| Diphenhydramine     | 5.272 | 987756  | 2800.47   | 33.4  | 481.36     | 315660     | 244.9375 ng/ml |
| Doxylamine          | 4.514 | 3549036 | 174097.44 | 97.3  | 130452.86  | 611207     | 261.3097 ng/ml |
| EDDP                | 5.237 | 937307  | 4941.63   | 42.0  | 2936.93    | 209290     | 250.8735 ng/ml |
| Fentanyl            | 5.072 | 15474   | 1165.75   | 68.3  | 10257.97   | 35189      | 24.0010 ng/ml  |
| Fluoxetine          | 5.702 | 117871  | 4837.88   | 8.8   | 9803.22    | 20237      | 256.5031 ng/ml |
| Hydrocodone         | 2.991 | 452640  | 443.80    | 41.6  | 645.27     | 124668     | 259.1493 ng/ml |
| Hydromorphone       | 1.581 | 299344  | ∞         | 78.1  | ∞          | 45799      | 255.4007 ng/ml |
| Ketamine            | 4.026 | 1434884 | 3324.18   | 38.3  | 28010.06   | 274898     | 254.6539 ng/ml |
| Lamotrigine         | 4.254 | 117701  | 38865.14  | 78.5  | 15901.31   | 274898     | 218.1602 ng/ml |
| Lorazepam           | 5.728 | 30744   | 699.23    | 56.5  | 188.74     | 3584       | 237.4625 ng/ml |
| Meprobamate         | 4.875 | 57650   | 1466.56   | 26.1  | 406.35     | 12683      | 248.9107 ng/ml |
| Methadone           | 5.641 | 539414  | 1829.37   | 52.8  | 5279.40    | 101497     | 251.1834 ng/ml |
| Methamphetamine     | 3.188 | 710306  | 877.48    | 42.6  | 954.75     | 133550     | 253.6964 ng/ml |
| Metoprolol          | 4.299 | 282143  | 148248.67 | 96.6  | 18667.82   | 689889     | 259.0914 ng/ml |



# AM #28 Multi-Drug Quant. Results

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| Name                 | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Mirtazapine          | 4.602 | 1234810 | ∞         | 50.3  | 10598.19 | 273820     | 249.1184 ng/ml |
| Mitragynine          | 5.207 | 84679   | 14466.43  | 38.3  | 28577.66 | 101497     | 271.8293 ng/ml |
| Morphine             | 1.220 | 51390   | 10814.75  | 23.0  | 124.72   | 2246       | 251.9406 ng/ml |
| Norbuprenorphine     | 4.970 | 489     | 32.60     | 84.6  | ∞        | 981        | 25.4531 ng/ml  |
| Nordiazepam          | 5.881 | 80190   | 1204.46   | 57.6  | 1357.88  | 10348      | 245.4715 ng/ml |
| Norfentanyl          | 4.061 | 188432  | 19857.66  | 37.2  | 4376.15  | 290741     | 24.8338 ng/ml  |
| Norhydrocodone       | 3.039 | 84091   | 1633.03   | 41.2  | 250.11   | 28094      | 260.7210 ng/ml |
| Noroxycodone         | 2.883 | 280869  | 2609.92   | 49.4  | 3751.68  | 36142      | 251.2818 ng/ml |
| O-desmethyl-tramadol | 3.348 | 3791182 | 179851.57 | 6.0   | 4744.20  | 829094     | 252.5987 ng/ml |
| Oxazepam             | 5.738 | 26655   | 466.34    | 67.4  | 195.72   | 7059       | 250.3593 ng/ml |
| Oxycodone            | 2.807 | 916978  | ∞         | 31.4  | 2537.25  | 171816     | 252.8249 ng/ml |
| Oxymorphone          | 1.376 | 174007  | ∞         | 48.0  | 173.81   | 24595      | 261.6955 ng/ml |
| Phentermine          | 3.745 | 272576  | 2582.41   | 2.3   | 822.56   | 153869     | 249.3319 ng/ml |
| Promethazine         | 5.527 | 306204  | 1758.16   | 30.5  | 871.98   | 57064      | 246.1930 ng/ml |
| Quetiapine           | 5.530 | 992552  | 33875.16  | 58.5  | 1287.11  | 52396      | 259.4845 ng/ml |
| Sertraline           | 5.770 | 58761   | 1131.71   | 91.9  | 540.53   | 10304      | 244.5367 ng/ml |
| Temazepam            | 5.805 | 301366  | 1269.18   | 30.3  | 323.20   | 64961      | 254.7062 ng/ml |
| Tramadol             | 4.219 | 3148448 | 162692.20 | 3.4   | 1036.46  | 689889     | 260.3035 ng/ml |
| Trazodone            | 5.106 | 717811  | ∞         | 79.7  | 84535.15 | 120018     | 251.6137 ng/ml |
| Venlafaxine          | 5.020 | 2159353 | 1684.23   | 36.3  | 2635.13  | 468427     | 247.1071 ng/ml |
| Zolpidem             | 4.878 | 3358429 | 223695.74 | 30.6  | 31714.90 | 672502     | 254.6668 ng/ml |

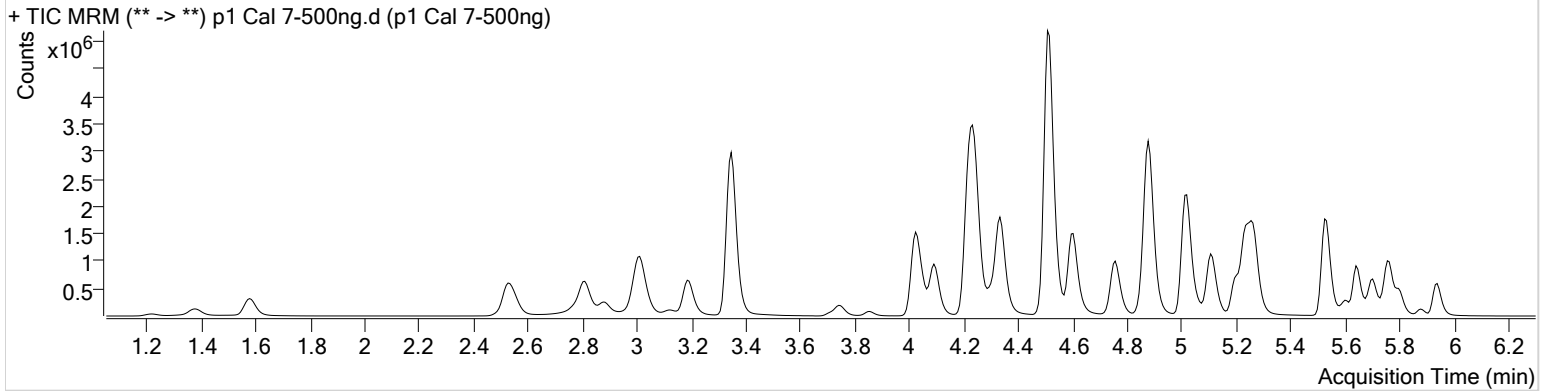
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 7-500ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 7-500ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle     |
| <b>Sample Position</b>  | P5-G1                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 1/16/2020 9:18:04 PM |                  |                  |

## Sample Chromatogram



| Name                | RT    | Resp.   | S/N        | Ratio | S/N       | ISTD Resp. | Final Conc.    |
|---------------------|-------|---------|------------|-------|-----------|------------|----------------|
| 6-MAM               | 3.109 | 50912   | 3919.19    | 71.7  | 2669.51   | 20153      | 51.6668 ng/ml  |
| 7-aminoclonazepam   | 4.231 | 315378  | 12128.17   | 81.7  | 3086.00   | 32567      | 424.4720 ng/ml |
| a-hydroxyalprazolam | 5.680 | 108488  | 547.81     | 62.9  | 1166.31   | 3918       | 518.6743 ng/ml |
| alpha-PVP           | 4.337 | 2684657 | 7306.53    | 50.3  | 112015.68 | 247455     | 495.6991 ng/ml |
| Alprazolam          | 5.756 | 989210  | 1994.79    | 101.9 | 6590.77   | 48910      | 503.6718 ng/ml |
| Amphetamine         | 3.014 | 1591647 | 13570.80   | 51.3  | 61454.13  | 46706      | 414.5471 ng/ml |
| Benzoylcegonine     | 3.853 | 136311  | 24792.74   | 7.7   | 1341.19   | 9671       | 510.1714 ng/ml |
| Buprenorphine       | 5.753 | 21383   | 302.88     | 16.2  | 437.90    | 15481      | 50.1862 ng/ml  |
| Bupropion           | 4.759 | 1589058 | 219332.29  | 57.6  | 35764.18  | 115698     | 500.6729 ng/ml |
| Carisoprodol        | 5.705 | 566223  | 54874.15   | 54.2  | 430.19    | 59159      | 498.8867 ng/ml |
| Citalopram          | 5.195 | 976362  | 4132.35    | 41.5  | 417.78    | 91322      | 499.9106 ng/ml |
| Clonazepam          | 5.593 | 159849  | 4993.73    | 33.4  | 1737.99   | 3582       | 501.1873 ng/ml |
| Cocaine             | 4.237 | 3066400 | 1908714.63 | 42.2  | 301412.98 | 453278     | 497.4183 ng/ml |
| Codeine             | 2.556 | 300506  | 2499.37    | 102.8 | ∞         | 28758      | 477.3279 ng/ml |
| Cyclobenzaprine     | 5.610 | 358843  | 697.71     | 10.6  | 6864.82   | 26080      | 503.3400 ng/ml |
| Dextromethorphan    | 5.245 | 405424  | 1290.14    | 79.6  | 11825.14  | 36624      | 506.4416 ng/ml |
| Dextrorphan         | 4.093 | 653914  | 2513.31    | 210.6 | 38053.20  | 178349     | 498.5472 ng/ml |
| Diazepam            | 5.941 | 674690  | 38427.26   | 86.4  | 2257.42   | 67465      | 499.7107 ng/ml |
| Dihydrocodeine      | 2.528 | 883394  | 6056.08    | 67.7  | 71996.41  | 123366     | 433.9389 ng/ml |
| Diphenhydramine     | 5.266 | 2007055 | 2791.46    | 33.5  | 2601.54   | 316834     | 495.6482 ng/ml |
| Doxylamine          | 4.508 | 6755720 | 375855.11  | 96.6  | 249290.61 | 583541     | 522.2456 ng/ml |
| EDDP                | 5.237 | 1830698 | 72020.36   | 42.2  | 1640.04   | 206041     | 497.9201 ng/ml |
| Fentanyl            | 5.072 | 38437   | 2373.47    | 68.9  | ∞         | 42912      | 48.9017 ng/ml  |
| Fluoxetine          | 5.702 | 316972  | 4131.22    | 9.0   | 900.39    | 27544      | 507.1012 ng/ml |
| Hydrocodone         | 2.991 | 799654  | 1997.73    | 42.6  | ∞         | 115740     | 493.9741 ng/ml |
| Hydromorphone       | 1.581 | 544109  | ∞          | 78.2  | ∞         | 42373      | 502.1274 ng/ml |
| Ketamine            | 4.026 | 2576423 | 55598.53   | 38.3  | 7821.92   | 258151     | 487.4355 ng/ml |
| Lamotrigine         | 4.254 | 180832  | ∞          | 78.0  | 19081.49  | 258151     | 357.5198 ng/ml |
| Lorazepam           | 5.728 | 62792   | ∞          | 57.6  | 266.32    | 3582       | 483.2400 ng/ml |
| Meprobamate         | 4.875 | 96586   | 12528.42   | 26.3  | 1802.74   | 12147      | 435.7013 ng/ml |
| Methadone           | 5.641 | 1156262 | 1733.86    | 52.3  | 1121.37   | 109750     | 497.9415 ng/ml |
| Methamphetamine     | 3.188 | 1296070 | 6772.50    | 43.1  | 1863.02   | 127886     | 485.4925 ng/ml |
| Metoprolol          | 4.306 | 464968  | 1092375.20 | 96.6  | 21161.29  | 631720     | 467.1087 ng/ml |

# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.   | S/N       | Ratio | S/N        | ISTD Resp. | Final Conc.    |
|----------------------|-------|---------|-----------|-------|------------|------------|----------------|
| Mirtazapine          | 4.602 | 2501161 | 10582.95  | 49.6  | 1235799.86 | 247455     | 558.1520 ng/ml |
| Mitragynine          | 5.207 | 170924  | 80215.22  | 39.9  | 76314.74   | 109750     | 508.5022 ng/ml |
| Morphine             | 1.220 | 92186   | 1084.76   | 23.2  | 869.75     | 2052       | 495.2443 ng/ml |
| Norbuprenorphine     | 4.970 | 957     | 242.75    | 92.1  | 1904.46    | 1024       | 47.2811 ng/ml  |
| Nordiazepam          | 5.881 | 146138  | ∞         | 58.4  | 4999.64    | 9427       | 491.2488 ng/ml |
| Norfentanyl          | 4.061 | 351898  | 117291.23 | 37.6  | 8012.19    | 257818     | 52.2522 ng/ml  |
| Norhydrocodone       | 3.039 | 163412  | 32789.33  | 41.4  | 1030.17    | 27158      | 523.0915 ng/ml |
| Noroxycodone         | 2.883 | 502297  | 5766.66   | 48.6  | 6518.55    | 33136      | 490.6047 ng/ml |
| O-desmethyl-tramadol | 3.348 | 6740713 | 64986.67  | 5.9   | 4897.74    | 735869     | 506.4760 ng/ml |
| Oxazepam             | 5.738 | 53705   | 1158.47   | 70.2  | ∞          | 7629       | 466.8084 ng/ml |
| Oxycodone            | 2.807 | 1686279 | 5888.42   | 32.0  | 2154.22    | 162223     | 492.7929 ng/ml |
| Oxymorphone          | 1.376 | 310806  | ∞         | 49.4  | 793.53     | 23926      | 480.8013 ng/ml |
| Phentermine          | 3.745 | 464840  | ∞         | 2.2   | 472.82     | 145263     | 452.2173 ng/ml |
| Promethazine         | 5.527 | 798373  | 6001.81   | 29.8  | 1265.14    | 72332      | 506.4997 ng/ml |
| Quetiapine           | 5.530 | 1971165 | 208456.21 | 59.2  | 2025.37    | 55563      | 486.7331 ng/ml |
| Sertraline           | 5.770 | 154137  | 1207.15   | 90.7  | 12998.81   | 13585      | 487.1484 ng/ml |
| Temazepam            | 5.805 | 555544  | 7213.84   | 30.8  | 414.51     | 59872      | 508.9842 ng/ml |
| Tramadol             | 4.219 | 5321287 | 5329.55   | 3.4   | 1138.75    | 631720     | 481.8266 ng/ml |
| Trazodone            | 5.106 | 1614224 | 323770.30 | 78.9  | 135429.05  | 136324     | 498.8302 ng/ml |
| Venlafaxine          | 5.020 | 3906308 | 326450.42 | 36.3  | 4317.66    | 420610     | 497.6141 ng/ml |
| Zolpidem             | 4.878 | 6180086 | 206318.01 | 30.2  | 1436.42    | 642575     | 490.9151 ng/ml |

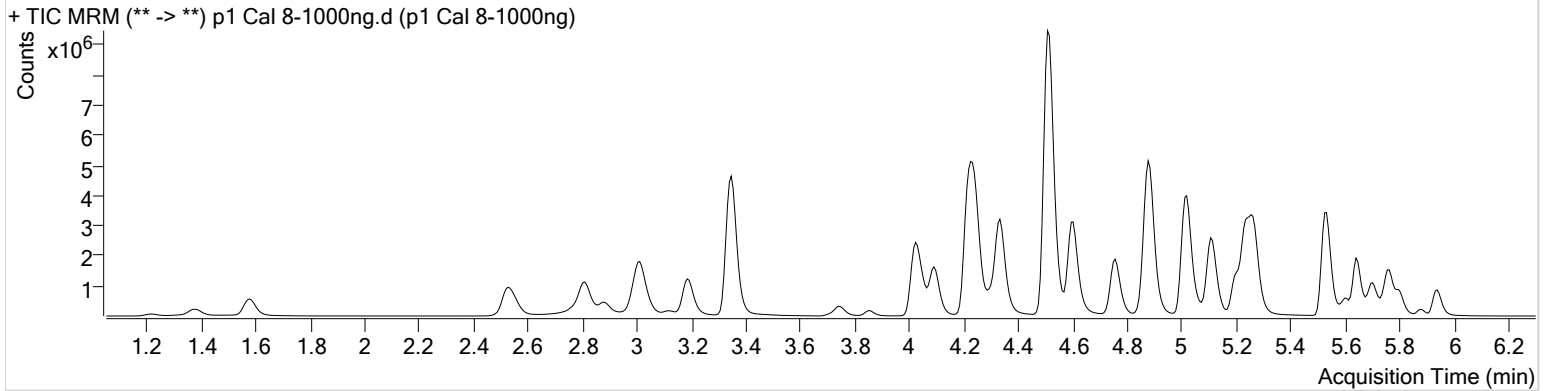
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\011620 AM 27 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 1/17/2020 1:47:18 PM

|                         |                      |                  |                   |
|-------------------------|----------------------|------------------|-------------------|
| <b>Instrument</b>       | Falco                | <b>Data File</b> | p1 Cal 8-1000ng.d |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | p1 Cal 8-1000ng   |
| <b>Acq. Method</b>      | MDQ P1 01112020.m    | <b>Operator</b>  | Sarah Pickle      |
| <b>Sample Position</b>  | P5-H1                | <b>Comment</b>   |                   |
| <b>Injection Volume</b> | 2                    |                  |                   |
| <b>Acq. Date-Time</b>   | 1/16/2020 9:28:38 PM |                  |                   |

## Sample Chromatogram



| Name                | RT    | Resp.    | S/N       | Ratio | S/N       | ISTD Resp. | Final Conc.     |
|---------------------|-------|----------|-----------|-------|-----------|------------|-----------------|
| 6-MAM               | 3.109 | 100948   | 3553.99   | 71.8  | 10086.30  | 20462      | 100.9061 ng/ml  |
| 7-aminoclonazepam   | 4.237 | 350543   | 11715.13  | 81.3  | 11517.54  | 21928      | 701.4004 ng/ml  |
| a-hydroxyalprazolam | 5.680 | 218919   | 956.12    | 59.0  | 931.09    | 3962       | 1035.4910 ng/ml |
| alpha-PVP           | 4.337 | 5097448  | 6418.21   | 49.6  | 5101.30   | 231377     | 1006.6888 ng/ml |
| Alprazolam          | 5.756 | 1545591  | 9805.75   | 103.6 | 5375.74   | 38709      | 994.5840 ng/ml  |
| Amphetamine         | 3.014 | 2617247  | 49666.80  | 52.2  | 36906.01  | 47176      | 676.3876 ng/ml  |
| Benzoylcegonine     | 3.853 | 299512   | 36465.77  | 7.8   | 2272.87   | 10065      | 1076.8905 ng/ml |
| Buprenorphine       | 5.753 | 36490    | 816.86    | 15.9  | 323.68    | 11755      | 112.6943 ng/ml  |
| Bupropion           | 4.759 | 3058543  | 3528.38   | 57.4  | 120098.47 | 112198     | 994.1452 ng/ml  |
| Carisoprodol        | 5.705 | 909868   | 1482.14   | 53.8  | 3005.78   | 48060      | 986.8825 ng/ml  |
| Citalopram          | 5.202 | 1948658  | 2788.08   | 41.0  | 1212.35   | 90286      | 1009.2111 ng/ml |
| Clonazepam          | 5.586 | 307645   | 17517.33  | 33.3  | 13367.98  | 3651       | 946.3735 ng/ml  |
| Cocaine             | 4.237 | 5042353  | 122860.22 | 42.4  | 199926.24 | 366526     | 1011.5781 ng/ml |
| Codeine             | 2.556 | 500038   | 1608.35   | 100.9 | 1176.96   | 24472      | 934.0628 ng/ml  |
| Cyclobenzaprine     | 5.610 | 794301   | 16793.09  | 10.6  | ∞         | 27890      | 1042.5198 ng/ml |
| Dextromethorphan    | 5.245 | 785397   | 51659.73  | 79.3  | 1793.79   | 36111      | 995.3871 ng/ml  |
| Dextrorphan         | 4.093 | 1224088  | 115868.79 | 208.6 | 303586.17 | 166404     | 1000.2560 ng/ml |
| Diazepam            | 5.941 | 1059189  | 864.32    | 86.2  | 7999.97   | 55794      | 948.9813 ng/ml  |
| Dihydrocodeine      | 2.528 | 1480532  | 87376.34  | 67.4  | 1778.78   | 123460     | 727.3941 ng/ml  |
| Diphenhydramine     | 5.272 | 4112051  | 197106.39 | 33.2  | 24944.38  | 317186     | 1014.1478 ng/ml |
| Doxylamine          | 4.508 | 13006674 | 322464.74 | 97.1  | 335062.33 | 609981     | 962.9468 ng/ml  |
| EDDP                | 5.237 | 3880394  | 8323.40   | 41.7  | 2704.14   | 214600     | 1013.5199 ng/ml |
| Fentanyl            | 5.072 | 92437    | 57867.08  | 68.5  | 77797.33  | 48948      | 103.1166 ng/ml  |
| Fluoxetine          | 5.702 | 608147   | 4248.51   | 9.2   | 18652.64  | 27104      | 989.0542 ng/ml  |
| Hydrocodone         | 2.991 | 1487619  | ∞         | 42.9  | ∞         | 118906     | 895.2433 ng/ml  |
| Hydromorphone       | 1.581 | 1023261  | ∞         | 78.1  | 3659.71   | 39615      | 1010.4233 ng/ml |
| Ketamine            | 4.026 | 4525167  | 102039.36 | 38.1  | ∞         | 242883     | 910.4365 ng/ml  |
| Lamotrigine         | 4.261 | 233320   | 27606.86  | 79.7  | ∞         | 242883     | 490.6443 ng/ml  |
| Lorazepam           | 5.728 | 137965   | 6643.95   | 57.0  | 250.57    | 3651       | 1039.4960 ng/ml |
| Meprobamate         | 4.868 | 141259   | 1571.72   | 26.4  | 2902.08   | 10479      | 738.9609 ng/ml  |
| Methadone           | 5.641 | 2529912  | 4260.63   | 52.5  | 96902.00  | 119148     | 1003.5667 ng/ml |
| Methamphetamine     | 3.188 | 2543627  | 18994.59  | 43.1  | 19712.06  | 141406     | 863.4950 ng/ml  |
| Metoprolol          | 4.299 | 778249   | 126034.05 | 95.1  | ∞         | 583450     | 847.3388 ng/ml  |

# AM #28 Multi-Drug Quant. Results



| Name                 | RT    | Resp.    | S/N       | Ratio | S/N       | ISTD Resp. | Final Conc.     |
|----------------------|-------|----------|-----------|-------|-----------|------------|-----------------|
| Mirtazapine          | 4.602 | 5331758  | ∞         | 49.7  | 157368.01 | 231377     | 1272.2844 ng/ml |
| Mitragynine          | 5.207 | 351839   | 103611.89 | 39.8  | 11400.91  | 119148     | 965.2814 ng/ml  |
| Morphine             | 1.220 | 172642   | 7802.77   | 22.8  | 11689.98  | 1940       | 981.5879 ng/ml  |
| Norbuprenorphine     | 4.970 | 2179     | 184.41    | 75.1  | 2541.37   | 1056       | 103.6252 ng/ml  |
| Nordiazepam          | 5.881 | 263892   | 1758.77   | 58.2  | 2565.55   | 8412       | 994.3321 ng/ml  |
| Norfentanyl          | 4.061 | 695385   | 34485.03  | 37.4  | 171960.39 | 222011     | 119.8538 ng/ml  |
| Norhydrocodone       | 3.039 | 320302   | 12829.79  | 42.6  | ∞         | 25145      | 1106.2748 ng/ml |
| Noroxycodone         | 2.883 | 913390   | 5459.09   | 48.7  | 1522.21   | 30756      | 961.6067 ng/ml  |
| O-desmethyl-tramadol | 3.348 | 11680055 | 411172.50 | 5.8   | 36757.93  | 635988     | 1015.8877 ng/ml |
| Oxazepam             | 5.738 | 119498   | 1517.68   | 70.2  | 306.24    | 8069       | 982.2392 ng/ml  |
| Oxycodone            | 2.807 | 3232601  | ∞         | 31.9  | 3892.03   | 160934     | 952.6169 ng/ml  |
| Oxymorphone          | 1.376 | 577664   | ∞         | 48.5  | 574.19    | 22755      | 939.9215 ng/ml  |
| Phentermine          | 3.745 | 876211   | ∞         | 1.9   | 305.82    | 148058     | 838.2477 ng/ml  |
| Promethazine         | 5.527 | 1709396  | 6440.09   | 29.8  | 780.95    | 78618      | 997.8276 ng/ml  |
| Quetiapine           | 5.530 | 3970642  | 5803.08   | 59.6  | 152630.45 | 60971      | 894.2474 ng/ml  |
| Sertraline           | 5.770 | 263953   | 25971.33  | 92.9  | 5063.43   | 11155      | 1016.6133 ng/ml |
| Temazepam            | 5.805 | 1037105  | 2710.31   | 30.4  | 4832.39   | 57060      | 996.5722 ng/ml  |
| Tramadol             | 4.219 | 9043597  | 228002.16 | 3.3   | 1444.72   | 583450     | 887.9768 ng/ml  |
| Trazodone            | 5.106 | 3809257  | 4950.28   | 78.6  | 402795.34 | 166086     | 966.8518 ng/ml  |
| Venlafaxine          | 5.020 | 7592575  | 122765.30 | 35.8  | 47929.34  | 402752     | 1009.8554 ng/ml |
| Zolpidem             | 4.878 | 10725398 | 995.16    | 30.1  | 9019.15   | 605508     | 904.5432 ng/ml  |