

















*Byylee*

**Worklist: 4024**

| <u>LAB_CASE</u> | <u>ITEM</u> | <u>ITEM_TYPE</u> | <u>DESCRIPTION</u>                                   |   |
|-----------------|-------------|------------------|--|---|
| C2020-0101      | 1           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |    |
| C2020-0164      | 1           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |    |
| C2020-0186      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| C2020-0193      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| C2020-0210      | 1           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |    |
| C2020-0211      | 2           | UCK              | AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ |    |
| C2020-0225      | 1           | AVK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| C2020-0237      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| C2020-0238      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |    |
| C2020-0240      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |   |
| C2020-0272      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| C2020-0284      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| C2020-0285      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| C2020-0300      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| C2020-0301      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |
| C2020-0308      | 1           | BCK              | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ       |  |

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

Bylye

Extraction Date 2-20-2020      Analyst: Britany Wylie  
Plate lot#: 190729 (part IDP-111)      Plate Expiration: 1/29/20

**Mobile phase A:** 5mM Amm Form + 0.01% FA      **Mobile phase B:** 0.01% Formic Acid in MeOH  
0.5M Ammonium Hydroxide      Ethyl Acetate      20% Methanol in Water

**Blank Blood Lot:** 20A52255      **Urine Blank lot:** 11420

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

**LCMS-QQQ ID:** 69679

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 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) Pipette ID: 1926134 or 250µL hydrolyzed urine in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 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: 66792*
- 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: 66819*
- 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: Not Evaluated: Methamphetamine, lamotrigine and norhydrocodone  
Curves limited to: 5-500 for 7-aminoclonazepam and metoprolol; 5-50 for Lorazepam;  
0.5-50 for Buprenorphine; 1-100 for Norbuprenorphine

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

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**Request for Departure from an Analytical Method**

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Date of Request

**01/13/2020**

Forensic Scientist

Celena Shrum

Analytical Methods

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

Deviation

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

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

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

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

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

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

*Celena Shrum*

Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead

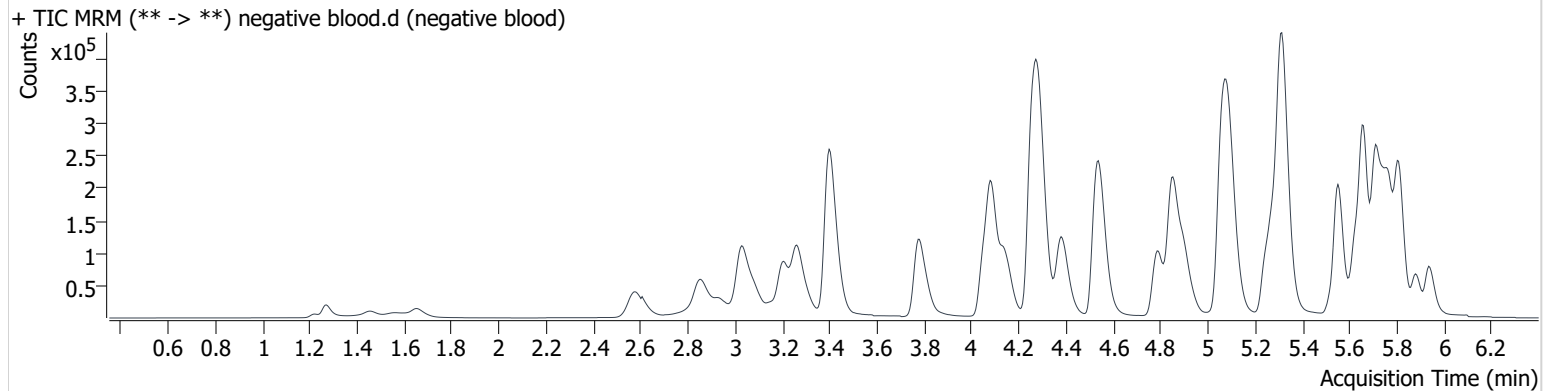
BWylee

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | negative blood.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | negative blood   |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie    |
| <b>Sample Position</b>  | P2-E2                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 2/20/2020 8:23:43 PM |                  |                  |

## Sample Chromatogram



| Name            | RT    | Resp.  | S/N    | Ratio | S/N   | ISTD Resp. | Final Conc.  |
|-----------------|-------|--------|--------|-------|-------|------------|--------------|
| Methamphetamine | 3.269 | 192835 | 1008.5 | 39.9  | 329.5 | 323351     | 12.413 ng/ml |

2/24/20: Methamphetamine not evaluated in this batch

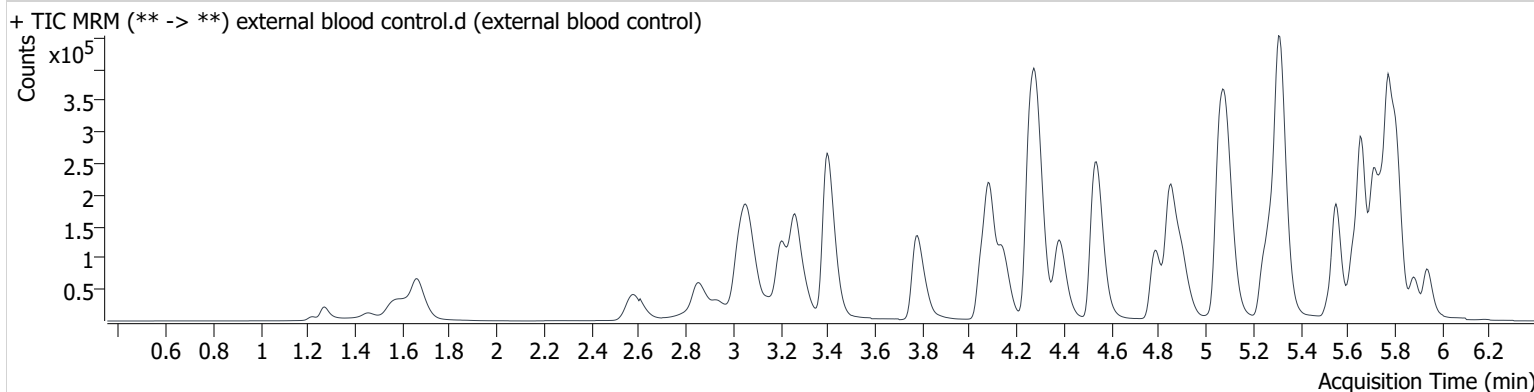
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |                          |
|-------------------------|----------------------|------------------|--------------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | external blood control.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | external blood control   |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie            |
| <b>Sample Position</b>  | P2-F2                | <b>Comment</b>   |                          |
| <b>Injection Volume</b> | 2                    |                  |                          |
| <b>Acq. Date-Time</b>   | 2/20/2020 8:34:33 PM |                  |                          |

**Sample Chromatogram**



| Name                       | RT               | Resp.             | S/N              | Ratio           | S/N              | ISTD Resp.        | Final Conc.   |
|----------------------------|------------------|-------------------|------------------|-----------------|------------------|-------------------|---|
| Hydrocodone                | 3.063            | 277984            | 2098.0           | 44.8            | 1411.4           | 199168            | 92.618 ng/ml  |
| Hydromorphone              | 1.663            | 133915            | ∞                | 83.8            | ∞                | 118138            | 45.022 ng/ml  |
| <del>Methamphetamine</del> | <del>3.269</del> | <del>287713</del> | <del>172.8</del> | <del>40.2</del> | <del>972.9</del> | <del>466197</del> | <del>13.285 ng/ml</del> <span style="color: red;">NE</span> |
| Sertraline                 | 5.777            | 270908            | 21450.5          | 95.1            | 493298.6         | 146452            | 82.079 ng/ml  |

2/24/20: Methamphetamine not evaluated in this batch

BW

Toxicology AM method 25/28 blood external prep information

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

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

Exp 3/1/20  
*BW*  
 2-25-20

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

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

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

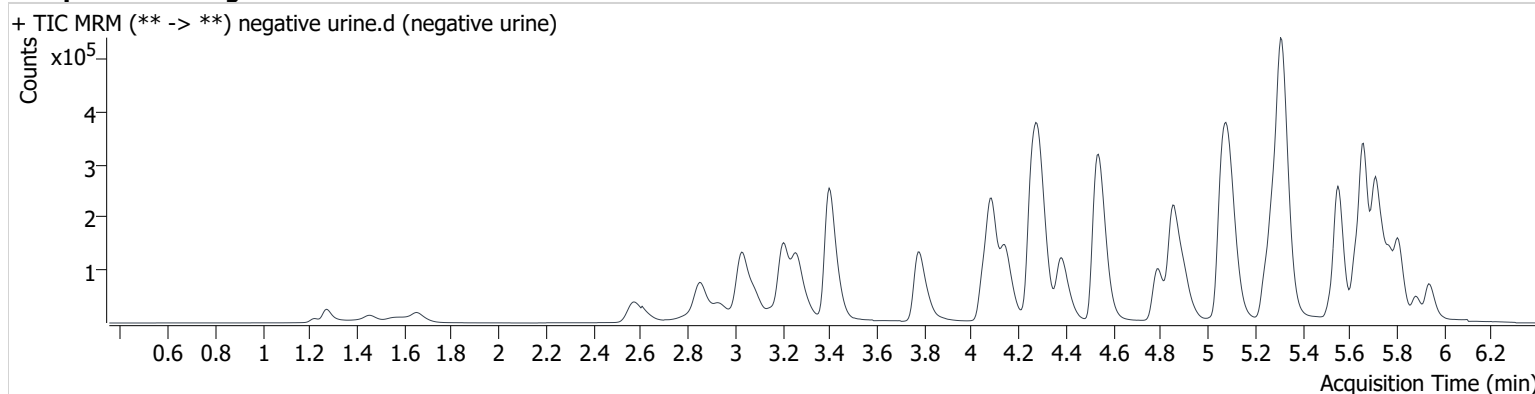
Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |                  |
|-------------------------|----------------------|------------------|------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | negative urine.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | negative urine   |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie    |
| <b>Sample Position</b>  | P2-D4                | <b>Comment</b>   |                  |
| <b>Injection Volume</b> | 2                    |                  |                  |
| <b>Acq. Date-Time</b>   | 2/21/2020 1:14:23 AM |                  |                  |

**Sample Chromatogram**



| Name            | RT    | Resp.  | S/N   | Ratio | S/N   | ISTD Resp. | Final Conc. |
|-----------------|-------|--------|-------|-------|-------|------------|-------------|
| Methamphetamine | 3.269 | 175988 | 904.7 | 40.8  | 407.5 | 574409     | 0.236 ng/ml |

2/24/20: Methamphetamine not evaluated in this batch

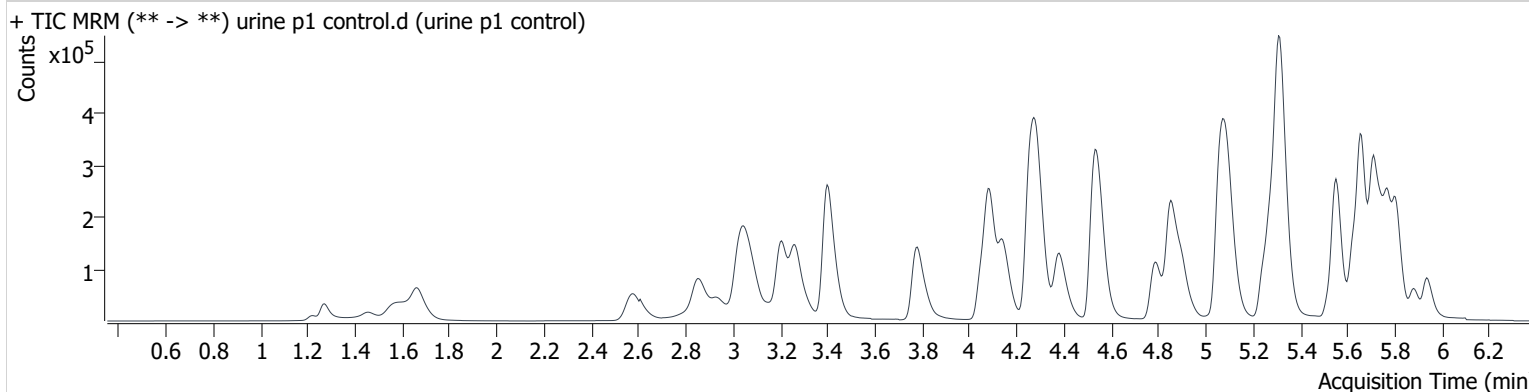
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |                    |
|-------------------------|----------------------|------------------|--------------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | urine p1 control.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | urine p1 control   |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie      |
| <b>Sample Position</b>  | P2-E4                | <b>Comment</b>   |                    |
| <b>Injection Volume</b> | 2                    |                  |                    |
| <b>Acq. Date-Time</b>   | 2/21/2020 1:35:56 AM |                  |                    |

**Sample Chromatogram**



| Name                       | RT               | Resp.             | S/N              | Ratio           | S/N              | ISTD Resp.        | Final Conc.            |
|----------------------------|------------------|-------------------|------------------|-----------------|------------------|-------------------|------------------------|
| Hydrocodone                | 3.058            | 201252            | 1403.5           | 40.5            | 796.0            | 236617            | 55.839 ng/ml           |
| Hydromorphone              | 1.663            | 124248            | ∞                | 72.0            | ∞                | 96339             | 51.271 ng/ml           |
| <del>Methamphetamine</del> | <del>3.269</del> | <del>229418</del> | <del>163.6</del> | <del>40.9</del> | <del>390.7</del> | <del>588867</del> | <del>3.730 ng/ml</del> |
| Sertraline                 | 5.777            | 54086             | 3891.1           | 99.6            | 35068.0          | 198809            | 12.052 ng/ml           |

2/24/20: Methamphetamine not evaluated in this batch

BW



Toxicology AM method 25/28 urine external control prep  
working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline  
Stock solution 1mg/ml 100 ul each in 9600ul meOH

ppd 5/20/19: Exp: 3/1/20 lot 52020 by baw

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

AM 25 control 30 ul working solution (52020) in 270 ul negative urine

ppd 10/7/19, exp 3/1/20 lot 10719 negative urine lot 8919 by AMN

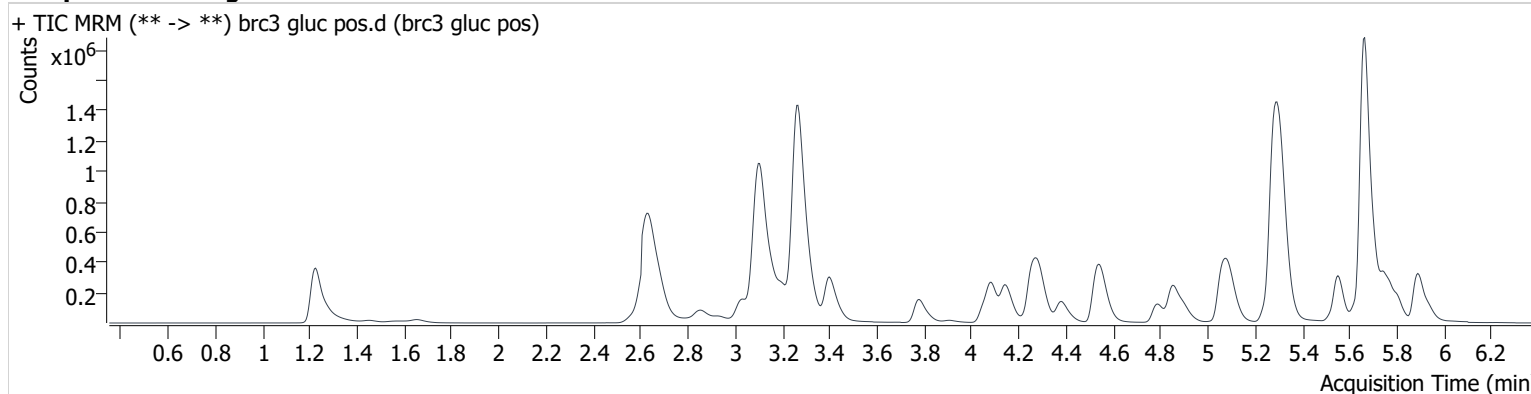
Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |                 |
|-------------------------|----------------------|------------------|-----------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | brc3 gluc pos.d |
| <b>Type</b>             | Sample               | <b>Sample</b>    | brc3 gluc pos   |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie   |
| <b>Sample Position</b>  | P2-F4                | <b>Comment</b>   |                 |
| <b>Injection Volume</b> | 2                    |                  |                 |
| <b>Acq. Date-Time</b>   | 2/21/2020 1:46:45 AM |                  |                 |

**Sample Chromatogram**



| Name                       | RT                          | Resp.              | S/N               | Ratio                       | S/N               | ISTD Resp.        | Final Conc.                 |
|----------------------------|-----------------------------|--------------------|-------------------|-----------------------------|-------------------|-------------------|-----------------------------|
| 6-MAM                      | 3.168                       | 14161              | 1801.1            | 73.3                        | 398.6             | 59113             | 6.945 ng/ml                 |
| a-hydroxyalprazolam        | 5.694                       | 117460             | 1941.7            | 59.0                        | 1342.5            | 28875             | 219.819 ng/ml               |
| Amphetamine                | 3.107                       | 3146852            | 21059.6           | 52.1                        | 19687.9           | 379082            | 177.712 ng/ml               |
| Benzoylcegonine            | 3.906                       | 22992              | 299.1             | 8.5                         | 36.0              | 12189             | 67.641 ng/ml                |
| Codeine                    | 2.633                       | 1235575            | 4065.1            | 101.9                       | 388871.0          | 49662             | 1203.213 ng/ml              |
| Dextrophan                 | 4.146                       | 104519             | 181.3             | 215.6                       | 627.5             | 427382            | 27.564 ng/ml                |
| Dihydrocodeine             | 2.632                       | 5554               | 31.8              | 203.1 <b>High</b>           | 1057.6            | 175742            | 1.172 ng/ml <5              |
| Diphenhydramine            | 5.321                       | 58160              | 55.6              | 43.8 <b>High</b>            | 793.9             | 1461180           | 2.821 ng/ml <5              |
| Doxylamine                 | 4.558                       | 141164             | 2960.8            | 96.3                        | 3379.9            | 1306528           | 4.512 ng/ml <5              |
| EDDP                       | 5.284                       | 1130813            | 16893.8           | 242.0                       | 91515.7           | 521467            | 258.009 ng/ml               |
| Methadone                  | 5.664                       | 3055155            | 159390.3          | 49.2                        | 6860.2            | 713081            | 227.550 ng/ml               |
| <del>Methamphetamine</del> | <del>3.269</del>            | <del>3104468</del> | <del>1250.3</del> | <del>41.4</del>             | <del>1388.6</del> | <del>617869</del> | <del>198.353 ng/ml</del> NE |
| Morphine                   | 1.227                       | 320382             | ∞                 | 32.5                        | 440228.7          | 4257              | 607.617 ng/ml               |
| Nordiazepam                | 5.892                       | 567213             | 27598.7           | 60.0                        | 17993.6           | 88072             | 225.584 ng/ml               |
| <del>Norhydrocodone</del>  | <del>2.634</del> <b>Low</b> | <del>410</del>     | <del>53.1</del>   | <del>52.6</del> <b>High</b> | <del>16.9</del>   | <del>71561</del>  | <del>2.940 ng/ml</del> NE   |
| Oxazepam                   | 5.747                       | 296978             | 4727.6            | 71.6                        | 345.5             | 104245            | 187.866 ng/ml               |

2/24/20 Norhydrocodone and Methamphetamine not evaluated in this batch

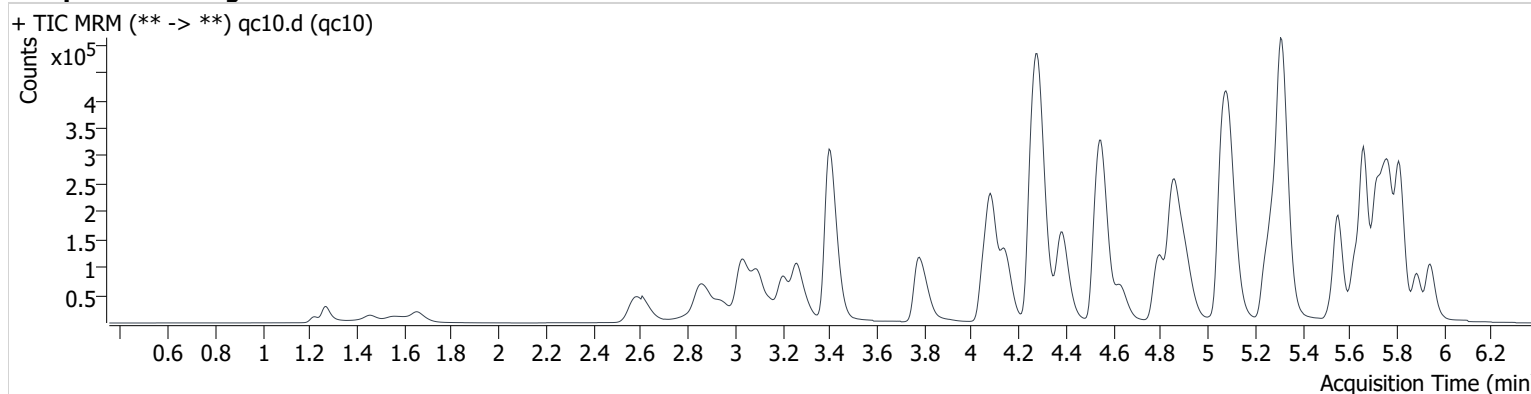
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | qc10.d        |
| <b>Type</b>             | QC                   | <b>Sample</b>    | qc10          |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-A2                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 6:57:35 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.  | S/N    | Ratio | S/N    | ISTD Resp. | Final Conc.  |
|---------------------|-------|--------|--------|-------|--------|------------|--------------|
| 6-MAM               | 3.163 | 1790   | 2540.9 | 73.7  | 123.7  | 52356      | 0.987 ng/ml  |
| 7-aminoclonazepam   | 4.282 | 37639  | 711.6  | 74.5  | 568.0  | 163213     | 10.235 ng/ml |
| a-hydroxyalprazolam | 5.699 | 8175   | 225.2  | 60.5  | 1197.1 | 40689      | 10.241 ng/ml |
| alpha-PVP           | 4.392 | 88528  | 1146.7 | 54.4  | 2769.6 | 396153     | 9.956 ng/ml  |
| Alprazolam          | 5.777 | 64048  | 893.5  | 96.8  | 1413.8 | 192608     | 9.961 ng/ml  |
| Amphetamine         | 3.101 | 145437 | 433.6  | 52.6  | 318.9  | 247773     | 10.422 ng/ml |
| Benzoylcegonine     | 3.911 | 2577   | 205.8  | 9.0   | 14.4   | 9332       | 10.360 ng/ml |
| Buprenorphine       | 5.693 | 1340   | 2610.0 | 16.3  | 316.5  | 52450      | 0.918 ng/ml  |
| Bupropion           | 4.809 | 83045  | 2369.6 | 61.8  | 343.2  | 331692     | 10.149 ng/ml |
| Carisoprodol        | 5.728 | 69283  | 1396.1 | 62.8  | 539.2  | 333166     | 10.175 ng/ml |
| Citalopram          | 5.251 | 64789  | 691.5  | 38.0  | 135.9  | 287570     | 9.621 ng/ml  |
| Clonazepam          | 5.622 | 38971  | 420.5  | 34.5  | 1042.6 | 75967      | 10.035 ng/ml |
| Cocaine             | 4.291 | 72712  | 7036.2 | 48.3  | 5355.2 | 602925     | 9.711 ng/ml  |
| Codeine             | 2.633 | 10830  | 489.1  | 101.3 | 442.4  | 50151      | 10.098 ng/ml |
| Cyclobenzaprine     | 5.630 | 38138  | 378.6  | 9.1   | 257.6  | 164336     | 10.051 ng/ml |
| Dextromethorphan    | 5.295 | 36902  | 545.7  | 73.3  | 825.7  | 172094     | 10.156 ng/ml |
| Dextrorphan         | 4.151 | 25183  | 2190.4 | 208.5 | 2553.3 | 263974     | 10.712 ng/ml |
| Diazepam            | 5.947 | 42361  | 965.8  | 85.0  | 1812.1 | 191241     | 10.082 ng/ml |
| Dihydrocodeine      | 2.606 | 23666  | 1055.4 | 75.2  | 1191.6 | 146096     | 9.739 ng/ml  |
| Diphenhydramine     | 5.321 | 194984 | 6174.5 | 35.7  | 528.7  | 1089456    | 10.193 ng/ml |
| Doxylamine          | 4.558 | 215507 | 7640.6 | 94.0  | 8442.5 | 934644     | 9.910 ng/ml  |
| EDDP                | 5.284 | 23284  | 1119.6 | 252.0 | 1054.8 | 278747     | 9.754 ng/ml  |
| Fentanyl            | 5.112 | 7165   | 97.2   | 64.8  | 3052.4 | 369105     | 0.964 ng/ml  |
| Fluoxetine          | 5.710 | 33593  | 1254.2 | 7.9   | 88.6   | 130715     | 10.818 ng/ml |
| Hydrocodone         | 3.058 | 29924  | 611.6  | 49.6  | 63.1   | 201001     | 8.504 ng/ml  |
| Hydromorphone       | 1.663 | 18310  | 717.9  | 72.1  | 1809.5 | 65253      | 10.888 ng/ml |
| Ketamine            | 4.071 | 74720  | 1673.9 | 34.2  | 79.5   | 352654     | 10.147 ng/ml |
| Lamotrigine         | 4.314 | 8411   | 272.8  | 84.2  | 478.7  | 172094     | 11.730 ng/ml |
| Lorazepam           | 5.750 | 31784  | 273.1  | 61.0  | 189.7  | 191241     | 11.749 ng/ml |
| Meprobamate         | 4.932 | 47353  | 6528.6 | 30.1  | 214.2  | 223351     | 9.799 ng/ml  |
| Methadone           | 5.664 | 98100  | 1963.2 | 60.9  | 903.1  | 532150     | 9.986 ng/ml  |
| Methamphetamine     | 3.269 | 180830 | 1423.4 | 40.6  | 105.5  | 295443     | 13.072 ng/ml |
| Metoprolol          | 4.349 | 20577  | 610.6  | 98.2  | 297.5  | 934644     | 10.650 ng/ml |

# AM #28 Multi-Drug Quant. Results

| Name                      | RT               | Resp.           | S/N              | Ratio           | S/N              | ISTD Resp.       | Final Conc.               |
|---------------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|---------------------------|
| Mirtazapine               | 4.635            | 122329          | 7350.9           | 51.0            | 6537.1           | 532150           | 9.474 ng/ml               |
| Mitragynine               | 5.240            | 17856           | 25992.9          | 37.1            | 393.4            | 532150           | 10.579 ng/ml              |
| Morphine                  | 1.222            | 4646            | 340.9            | 32.5            | 11811.7          | 3484             | 10.163 ng/ml              |
| Norbuprenorphine          | 5.029            | 216             | 171.2            | 103.0           | 81.7             | 10929            | 0.885 ng/ml               |
| Nordiazepam               | 5.892            | 44918           | 1557.7           | 57.8            | 1605.6           | 146402           | 10.184 ng/ml              |
| Norfentanyl               | 4.112            | 11707           | 111.9            | 39.4            | 62.0             | 523579           | 1.003 ng/ml               |
| <del>Norhydrocodone</del> | <del>3.105</del> | <del>1561</del> | <del>594.4</del> | <del>44.5</del> | <del>176.9</del> | <del>61529</del> | <del>9.729 ng/ml</del> NE |
| Noroxycodone              | 2.956            | 28063           | 723.7            | 48.0            | 430.4            | 99375            | 9.846 ng/ml               |
| O-desmethyl-tramadol      | 3.405            | 175819          | 6378.1           | 6.5             | 37.0             | 925638           | 10.397 ng/ml              |
| Oxazepam                  | 5.758            | 54122           | 215.8            | 70.1            | 715.9            | 321966           | 9.207 ng/ml               |
| Oxycodone                 | 2.884            | 57441           | 187.4            | 34.8            | 945.0            | 288793           | 10.305 ng/ml              |
| Oxymorphone               | 1.455            | 13631           | 35807.9          | 50.2            | 1695.7           | 51162            | 9.557 ng/ml               |
| Phentermine               | 3.813            | 40127           | 285.9            | 5.3             | 101.8            | 428275           | 10.111 ng/ml              |
| Promethazine              | 5.558            | 66202           | 1100.4           | 32.7            | 466.5            | 304105           | 9.917 ng/ml               |
| Quetiapine                | 5.539            | 67899           | 2473.2           | 61.9            | 11193.5          | 97324            | 10.597 ng/ml              |
| Sertraline                | 5.777            | 15204           | 483.7            | 89.2            | 7066.5           | 64967            | 10.364 ng/ml              |
| Temazepam                 | 5.819            | 116368          | 1440.3           | 27.9            | 88.8             | 535509           | 10.045 ng/ml              |
| Tramadol                  | 4.273            | 196341          | 20256.3          | 3.5             | 41.5             | 984221           | 10.597 ng/ml              |
| Trazodone                 | 5.101            | 85958           | 3489.0           | 80.5            | 488.7            | 360339           | 10.245 ng/ml              |
| Venlafaxine               | 5.073            | 155330          | 1238.7           | 36.3            | 136.4            | 801060           | 10.176 ng/ml              |
| Zolpidem                  | 4.873            | 155775          | 22920.7          | 29.0            | 100.5            | 741002           | 9.910 ng/ml               |

2/24/20: Methamphetamine, Lamotrigine and norhydrocodone were not evaluated in this batch

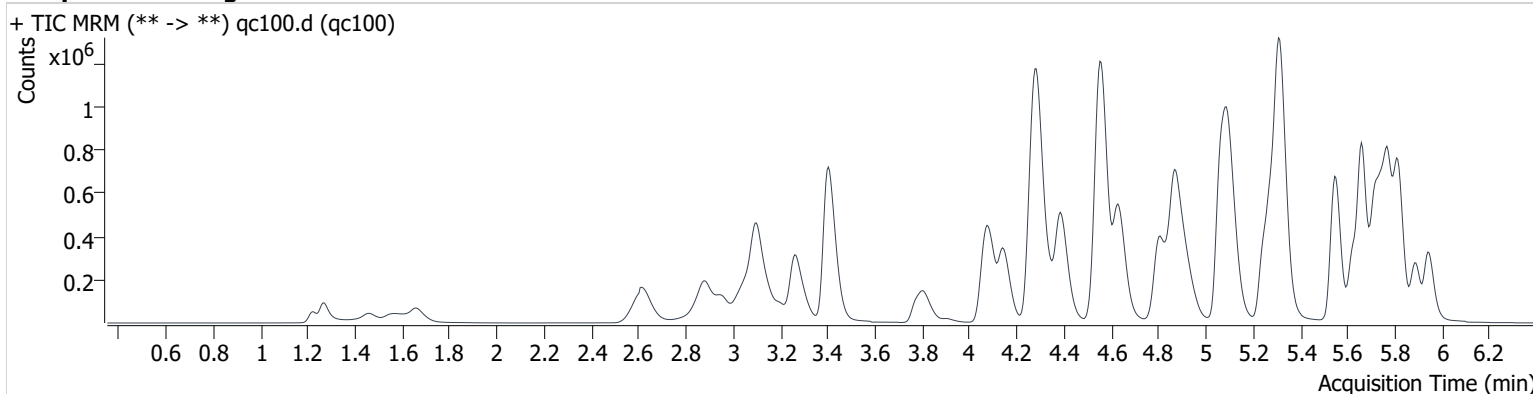
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | qc100.d       |
| <b>Type</b>             | QC                   | <b>Sample</b>    | qc100         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-B2                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 7:08:24 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|---------|----------|-------|----------|------------|---------------|
| 6-MAM               | 3.168 | 16983   | 380.0    | 68.6  | 434.4    | 49835      | 9.881 ng/ml   |
| 7-aminoclonazepam   | 4.287 | 306186  | 12358.5  | 76.3  | 10274.9  | 149226     | 98.063 ng/ml  |
| a-hydroxyalprazolam | 5.699 | 65927   | 909.4    | 62.2  | 438.1    | 36163      | 98.156 ng/ml  |
| alpha-PVP           | 4.392 | 813334  | 23770.8  | 54.1  | 2133.5   | 370492     | 95.628 ng/ml  |
| Alprazolam          | 5.777 | 552705  | 171.6    | 96.8  | 4030.8   | 165132     | 102.383 ng/ml |
| Amphetamine         | 3.101 | 1128267 | 7710.7   | 50.8  | 350.4    | 214832     | 111.584 ng/ml |
| Benzoylcegonine     | 3.906 | 25411   | 30894.0  | 8.3   | 59.3     | 9447       | 96.233 ng/ml  |
| Buprenorphine       | 5.693 | 12639   | 1352.7   | 15.4  | 1361.7   | 45549      | 9.473 ng/ml   |
| Bupropion           | 4.809 | 734260  | 45322.0  | 61.9  | 2049.1   | 303346     | 102.126 ng/ml |
| Carisoprodol        | 5.728 | 552972  | 7346.0   | 63.6  | 5452.7   | 277438     | 99.071 ng/ml  |
| Citalopram          | 5.251 | 572393  | 10852.8  | 39.3  | 566933.9 | 262098     | 97.176 ng/ml  |
| Clonazepam          | 5.622 | 312180  | 7626.9   | 35.2  | 86623.7  | 63954      | 104.904 ng/ml |
| Cocaine             | 4.291 | 645256  | 40361.7  | 46.9  | 126265.3 | 546262     | 96.619 ng/ml  |
| Codeine             | 2.633 | 101088  | 1132.8   | 96.9  | 1463.1   | 46807      | 104.125 ng/ml |
| Cyclobenzaprine     | 5.630 | 309949  | 567786.4 | 9.5   | 1809.3   | 140745     | 97.025 ng/ml  |
| Dextromethorphan    | 5.295 | 317933  | 24612.6  | 76.0  | 39032.3  | 153992     | 99.181 ng/ml  |
| Dextrorphan         | 4.146 | 234595  | 422.4    | 212.6 | 473.1    | 260228     | 101.784 ng/ml |
| Diazepam            | 5.947 | 374544  | 6183.8   | 87.2  | 8372.0   | 175390     | 100.712 ng/ml |
| Dihydrocodeine      | 2.606 | 227414  | 14814.2  | 73.7  | 13936.6  | 140156     | 105.703 ng/ml |
| Diphenhydramine     | 5.321 | 1766782 | 83721.4  | 34.9  | 23261.2  | 991367     | 95.113 ng/ml  |
| Doxylamine          | 4.558 | 2005995 | 10232.6  | 94.1  | 961.6    | 882205     | 99.928 ng/ml  |
| EDDP                | 5.284 | 222857  | 2445.6   | 251.9 | 19806.8  | 274674     | 96.414 ng/ml  |
| Fentanyl            | 5.112 | 65224   | 2357.1   | 65.5  | 55350.9  | 338047     | 9.544 ng/ml   |
| Fluoxetine          | 5.710 | 219708  | 12055.4  | 8.1   | 20804.9  | 93076      | 98.437 ng/ml  |
| Hydrocodone         | 3.058 | 302195  | 2344.9   | 38.7  | ∞        | 191294     | 105.031 ng/ml |
| Hydromorphone       | 1.663 | 159596  | 71358.4  | 74.4  | 8498.6   | 65697      | 96.875 ng/ml  |
| Ketamine            | 4.071 | 679678  | 64998.9  | 34.3  | 2769.7   | 335186     | 101.854 ng/ml |
| Lamotrigine         | 4.314 | 70310   | 1367.6   | 86.2  | 1691.2   | 153992     | 114.302 ng/ml |
| Lorazepam           | 5.745 | 184193  | 4415.2   | 63.4  | 445.9    | 175390     | 83.609 ng/ml  |
| Meprobamate         | 4.932 | 394572  | 23398.2  | 30.5  | 7307.1   | 194155     | 97.632 ng/ml  |
| Methadone           | 5.664 | 903071  | 131630.0 | 60.7  | 9870.8   | 502188     | 95.626 ng/ml  |
| Methamphetamine     | 3.269 | 644271  | 395.1    | 39.9  | 1056.7   | 218042     | 111.446 ng/ml |
| Metoprolol          | 4.349 | 181364  | 521.2    | 99.1  | 11746.2  | 882205     | 109.794 ng/ml |

# AM #28 Multi-Drug Quant. Results

| Name                      | RT               | Resp.            | S/N             | Ratio           | S/N              | ISTD Resp.       | Final Conc.  |
|---------------------------|------------------|------------------|-----------------|-----------------|------------------|------------------|--|
| Mirtazapine               | 4.635            | 1133240          | 109154.6        | 50.3            | 686.1            | 502188           | 90.622 ng/ml   |
| Mitragynine               | 5.240            | 156957           | 178489.6        | 37.1            | 2359.4           | 502188           | 101.877 ng/ml  |
| Morphine                  | 1.222            | 41334            | 327907.3        | 31.8            | 19857.4          | 3256             | 101.992 ng/ml  |
| Norbuprenorphine          | 5.024            | 1913             | 1078.1          | 105.4           | 323.3            | 10657            | 10.103 ng/ml   |
| Nordiazepam               | 5.892            | 386484           | 28972.3         | 55.8            | 2930.2           | 129228           | 104.438 ng/ml  |
| Norfentanyl               | 4.112            | 114662           | 2295.2          | 40.1            | 1713.7           | 517738           | 9.853 ng/ml  |
| <del>Norhydrocodone</del> | <del>3.105</del> | <del>15899</del> | <del>73.5</del> | <del>42.9</del> | <del>262.1</del> | <del>54493</del> | <del>101.772 ng/ml</del> <span style="color: red;">NE</span> |
| Noroxycodone              | 2.956            | 240806           | 1680.9          | 47.7            | 712.9            | 87793            | 101.320 ng/ml  |
| O-desmethyl-tramadol      | 3.405            | 1632466          | 38272.2         | 6.5             | 8343.3           | 885270           | 97.736 ng/ml   |
| Oxazepam                  | 5.752            | 360169           | 11900.6         | 68.6            | 3112.7           | 217375           | 108.428 ng/ml  |
| Oxycodone                 | 2.879            | 534676           | 946.5           | 34.7            | 1644.2           | 276675           | 107.030 ng/ml  |
| Oxymorphone               | 1.460            | 124922           | 533082.8        | 50.4            | 160089.6         | 47797            | 105.021 ng/ml  |
| Phentermine               | 3.813            | 331139           | 1433.9          | 5.2             | 813.3            | 372025           | 105.875 ng/ml  |
| Promethazine              | 5.558            | 557577           | 20285.1         | 31.5            | 9881.1           | 254649           | 96.120 ng/ml   |
| Quetiapine                | 5.539            | 637688           | 58860.9         | 61.9            | 334598.6         | 96719            | 108.005 ng/ml  |
| Sertraline                | 5.777            | 78577            | 164.3           | 93.1            | 55753.0          | 35620            | 97.886 ng/ml   |
| Temazepam                 | 5.819            | 1024113          | 6014.2          | 28.5            | 479.1            | 473952           | 97.450 ng/ml   |
| Tramadol                  | 4.273            | 1707457          | 672.0           | 3.5             | 614.8            | 919652           | 106.892 ng/ml  |
| Trazodone                 | 5.101            | 797069           | 23492.4         | 81.7            | 447.0            | 344992           | 101.572 ng/ml  |
| Venlafaxine               | 5.068            | 1420221          | 1734.9          | 36.4            | 7846.0           | 755879           | 95.061 ng/ml   |
| Zolpidem                  | 4.873            | 1465384          | 2912.6          | 28.5            | 48558.2          | 710480           | 99.746 ng/ml   |

2/24/20: Methamphetamine, Lamotrigine and norhydrocodone were not evaluated in this batch

2/24/20: lorazepam is outside the curve range of this batch for QC 100 *BW*

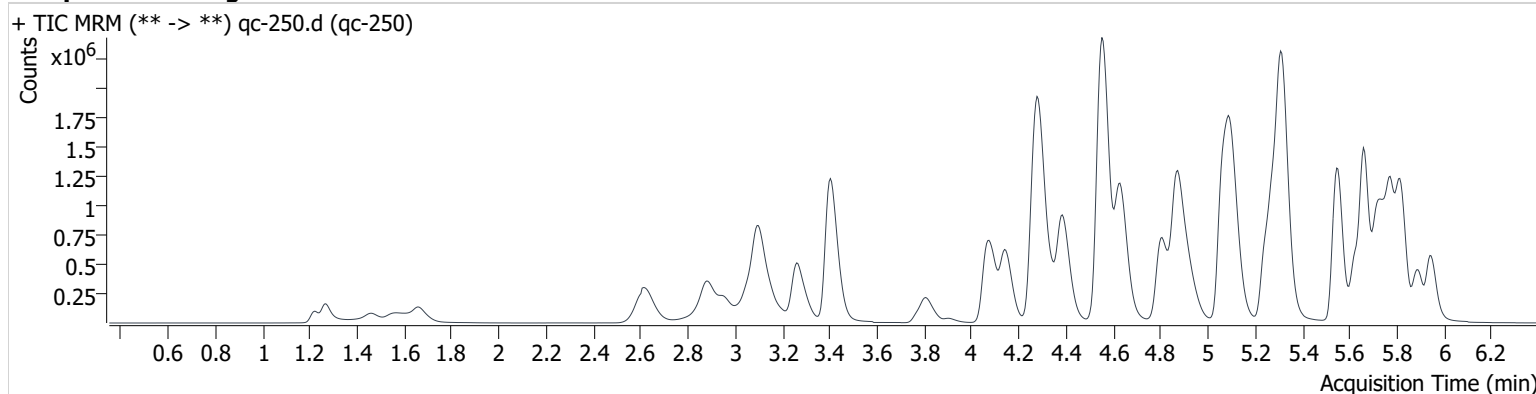
*BW*

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | qc-250.d      |
| <b>Type</b>             | QC                   | <b>Sample</b>    | qc-250        |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-C2                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 7:19:13 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|---------|----------|-------|----------|------------|---------------|
| 6-MAM               | 3.168 | 37148   | 2837.1   | 70.2  | 1012.2   | 42029      | 25.634 ng/ml  |
| 7-aminoclonazepam   | 4.282 | 559570  | 14088.2  | 73.4  | 199.0    | 110519     | 243.283 ng/ml |
| a-hydroxyalprazolam | 5.699 | 121271  | 1604.3   | 61.1  | 1329.3   | 26716      | 245.371 ng/ml |
| alpha-PVP           | 4.392 | 1698177 | 14078.6  | 53.9  | 2002.6   | 303740     | 243.162 ng/ml |
| Alprazolam          | 5.777 | 1076974 | 6899.0   | 96.0  | 955.8    | 128885     | 255.955 ng/ml |
| Amphetamine         | 3.101 | 2154660 | 9838.0   | 50.7  | 921.3    | 174759     | 265.064 ng/ml |
| Benzoylcegonine     | 3.906 | 57952   | 607.4    | 8.0   | 3518.0   | 8192       | 252.212 ng/ml |
| Buprenorphine       | 5.693 | 27082   | 1101.3   | 16.6  | 2018.5   | 37307      | 24.699 ng/ml  |
| Bupropion           | 4.809 | 1490126 | 18562.6  | 61.3  | 1074.1   | 242380     | 260.100 ng/ml |
| Carisoprodol        | 5.728 | 1009186 | 3162.2   | 64.8  | 3222.7   | 201619     | 249.072 ng/ml |
| Citalopram          | 5.251 | 1246350 | 650.2    | 38.2  | 177.5    | 222013     | 250.507 ng/ml |
| Clonazepam          | 5.617 | 569313  | 31729.1  | 34.2  | 242412.2 | 47367      | 259.917 ng/ml |
| Cocaine             | 4.291 | 1308890 | 6225.6   | 47.3  | 3717.2   | 437915     | 244.743 ng/ml |
| Codeine             | 2.633 | 203348  | 1289.2   | 98.7  | 33974.7  | 37998      | 258.534 ng/ml |
| Cyclobenzaprine     | 5.630 | 647662  | 90616.2  | 9.3   | 791.0    | 114979     | 248.475 ng/ml |
| Dextromethorphan    | 5.290 | 669450  | 83581.8  | 76.4  | 51798.8  | 128318     | 250.872 ng/ml |
| Dextrorphan         | 4.146 | 528895  | 1150.2   | 211.9 | 123816.8 | 229908     | 259.837 ng/ml |
| Diazepam            | 5.947 | 769185  | 13088.4  | 87.3  | 4906.5   | 143473     | 253.452 ng/ml |
| Dihydrocodeine      | 2.601 | 483396  | 2424.5   | 73.8  | 33469.4  | 123786     | 255.671 ng/ml |
| Diphenhydramine     | 5.321 | 3767847 | 247078.3 | 34.7  | 2279.8   | 821146     | 243.764 ng/ml |
| Doxylamine          | 4.553 | 4438012 | 218180.8 | 93.7  | 18167.3  | 782205     | 249.712 ng/ml |
| EDDP                | 5.284 | 551602  | 91555.1  | 248.0 | 13763.1  | 260631     | 251.804 ng/ml |
| Fentanyl            | 5.112 | 138783  | 295.4    | 65.1  | 83648.2  | 278844     | 24.614 ng/ml  |
| Fluoxetine          | 5.710 | 432003  | 10364.7  | 8.3   | 601.7    | 73212      | 245.899 ng/ml |
| Hydrocodone         | 3.058 | 632029  | 3063.0   | 44.7  | 566.9    | 163384     | 259.423 ng/ml |
| Hydromorphone       | 1.663 | 354667  | 15552.3  | 80.2  | 3367.1   | 56139      | 252.482 ng/ml |
| Ketamine            | 4.071 | 1450158 | 2244.1   | 34.2  | 3150.0   | 286533     | 255.044 ng/ml |
| Lamotrigine         | 4.314 | 133517  | 2169.7   | 88.1  | 3147.2   | 128318     | 261.210 ng/ml |
| Lorazepam           | 5.745 | 254772  | 5930.7   | 63.0  | 1599.9   | 143473     | 142.589 ng/ml |
| Meprobamate         | 4.932 | 761137  | 835932.3 | 30.4  | 4167.4   | 149416     | 245.377 ng/ml |
| Methadone           | 5.664 | 1995999 | 72420.5  | 59.7  | 12744.6  | 428236     | 247.530 ng/ml |
| Methamphetamine     | 3.264 | 1062240 | 1658.6   | 40.0  | 2257.3   | 164222     | 258.982 ng/ml |
| Metoprolol          | 4.349 | 366668  | 1762.1   | 98.8  | 46321.9  | 782205     | 251.940 ng/ml |

# AM #28 Multi-Drug Quant. Results

| Name                      | RT               | Resp.            | S/N             | Ratio           | S/N              | ISTD Resp.       | Final Conc.  |
|---------------------------|------------------|------------------|-----------------|-----------------|------------------|------------------|--|
| Mirtazapine               | 4.630            | 2509872          | 170319.6        | 50.4            | 138361.9         | 428236           | 234.936 ng/ml  |
| Mitragynine               | 5.234            | 325522           | 59743.1         | 37.7            | 135741.8         | 428236           | 248.351 ng/ml  |
| Morphine                  | 1.222            | 86763            | 103661.5        | 31.4            | 67025.5          | 2647             | 264.292 ng/ml  |
| Norbuprenorphine          | 5.019            | 4373             | 4259.4          | 101.7           | 779.8            | 9690             | 25.787 ng/ml   |
| Nordiazepam               | 5.892            | 735599           | 76824.4         | 55.6            | 521957.5         | 98997            | 260.356 ng/ml  |
| Norfentanyl               | 4.112            | 241083           | 1131.4          | 40.7            | 2078.5           | 434958           | 24.647 ng/ml   |
| <del>Norhydrocodone</del> | <del>3.105</del> | <del>40682</del> | <del>17.0</del> | <del>41.2</del> | <del>854.4</del> | <del>45355</del> | <del>310.887 ng/ml</del> <span style="color: red;">NE</span> |
| Noroxycodone              | 2.956            | 475165           | 531.0           | 47.4            | 712.9            | 69554            | 253.327 ng/ml  |
| O-desmethyl-tramadol      | 3.405            | 3553525          | 141274.3        | 6.4             | 854.4            | 751802           | 249.944 ng/ml  |
| Oxazepam                  | 5.752            | 519079           | 7017.6          | 68.7            | 2307.9           | 127807           | 268.678 ng/ml  |
| Oxycodone                 | 2.879            | 1169527          | 13690.1         | 34.1            | 5998.1           | 240402           | 270.639 ng/ml  |
| Oxymorphone               | 1.460            | 265273           | 780399.6        | 50.8            | 16.8             | 41399            | 259.335 ng/ml  |
| Phentermine               | 3.813            | 650430           | 2639.3          | 5.2             | 1173.9           | 300379           | 259.220 ng/ml  |
| Promethazine              | 5.558            | 1173445          | 167812.5        | 32.1            | 10410.5          | 212296           | 242.034 ng/ml  |
| Quetiapine                | 5.539            | 1443445          | 164933.5        | 60.0            | 700444.7         | 85177            | 279.061 ng/ml  |
| Sertraline                | 5.777            | 139849           | 10496.9         | 93.3            | 87626.0          | 24813            | 250.126 ng/ml  |
| Temazepam                 | 5.819            | 2019115          | 3574.2          | 27.9            | 5692.8           | 358012           | 253.912 ng/ml  |
| Tramadol                  | 4.268            | 3521944          | 293443.4        | 3.4             | 681.8            | 788747           | 258.475 ng/ml  |
| Trazodone                 | 5.101            | 1790488          | 65118.5         | 82.0            | 14764.3          | 310251           | 254.118 ng/ml  |
| Venlafaxine               | 5.068            | 3082880          | 2496.9          | 35.8            | 553.1            | 636679           | 244.338 ng/ml  |
| Zolpidem                  | 4.873            | 3194314          | 1981204.2       | 28.4            | 98398.0          | 603689           | 256.343 ng/ml  |

2/24/20: Methamphetamine, Lamotrigine and norhydrocodone were not evaluated in this batch

*BW*

2/24/20: lorazepam is outside the curve range of this batch for QC 250

*BW*

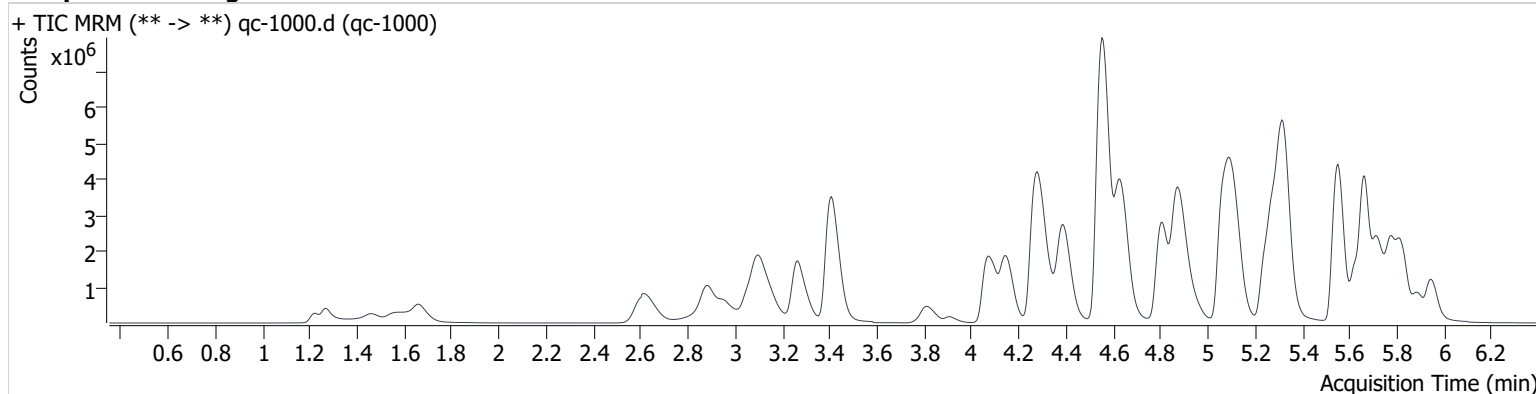


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | qc-1000.d     |
| <b>Type</b>             | QC                   | <b>Sample</b>    | qc-1000       |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-D2                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 7:30:00 PM |                  |               |

## Sample Chromatogram



| Name                         | RT               | Resp.              | S/N                | Ratio           | S/N                | ISTD Resp.        | Final Conc.  |
|------------------------------|------------------|--------------------|--------------------|-----------------|--------------------|-------------------|--|
| 6-MAM                        | 3.173            | 140345             | 599.7              | 70.1            | 547.1              | 38268             | 106.379 ng/ml  |
| <del>7-aminoclonazepam</del> | <del>4.282</del> | <del>810118</del>  | <del>19337.5</del> | <del>70.9</del> | <del>16296.0</del> | <del>56681</del>  | <del>688.377 ng/ml</del> <span style="color:blue">OCR</span> |
| a-hydroxyalprazolam          | 5.694            | 197765             | 2874.9             | 62.6            | 891.2              | 11860             | 903.118 ng/ml  |
| alpha-PVP                    | 4.392            | 6137245            | 444578.8           | 53.4            | 6710.1             | 269180            | 990.861 ng/ml  |
| Alprazolam                   | 5.777            | 2489440            | 18350.7            | 95.3            | 6367.8             | 75039             | 1016.887 ng/ml   |
| Amphetamine                  | 3.107            | 5479565            | 149865.9           | 51.0            | 13657.6            | 141621            | 836.757 ng/ml  |
| Benzoylcegonine              | 3.906            | 299276             | 355.1              | 8.4             | 75401.4            | 8975              | 1186.820 ng/ml   |
| <del>Buprenorphine</del>     | <del>5.693</del> | <del>81516</del>   | <del>1934.5</del>  | <del>15.8</del> | <del>1078.7</del>  | <del>21682</del>  | <del>127.712 ng/ml</del> <span style="color:blue">OCR</span> |
| Bupropion                    | 4.809            | 6365533            | 49075.3            | 60.5            | 35630.9            | 269135            | 1001.958 ng/ml   |
| Carisoprodol                 | 5.728            | 1763676            | 20381.3            | 63.4            | 3651.4             | 85698             | 1024.642 ng/ml   |
| Citalopram                   | 5.246            | 3619789            | 118463.0           | 37.8            | 1953.7             | 159135            | 1016.402 ng/ml   |
| Clonazepam                   | 5.612            | 881980             | 54469.2            | 34.6            | 11616.2            | 23196             | 824.663 ng/ml  |
| Cocaine                      | 4.291            | 3714712            | 347519.0           | 47.0            | 80982.1            | 309365            | 983.736 ng/ml  |
| Codeine                      | 2.633            | 621589             | 1336.9             | 95.9            | 1196.1             | 29132             | 1031.828 ng/ml   |
| Cyclobenzaprine              | 5.630            | 2698475            | 552735.2           | 9.5             | 4240.2             | 120358            | 989.577 ng/ml  |
| Dextromethorphan             | 5.290            | 1858496            | 39852.8            | 77.0            | 4141.4             | 89338             | 1000.814 ng/ml   |
| Dextrorphan                  | 4.146            | 1908386            | 954.8              | 216.7           | 216754.5           | 208423            | 1034.400 ng/ml   |
| Diazepam                     | 5.947            | 2032264            | 12572.1            | 87.4            | 3139.0             | 96142             | 1000.510 ng/ml   |
| Dihydrocodeine               | 2.601            | 1638298            | 38408.9            | 74.8            | 22677.2            | 121404            | 885.728 ng/ml  |
| Diphenhydramine              | 5.327            | 11091252           | 8584.3             | 34.1            | 8247.1             | 576562            | 1019.682 ng/ml   |
| Doxylamine                   | 4.553            | 16237144           | 10243.3            | 93.3            | 9992.1             | 740987            | 965.143 ng/ml  |
| EDDP                         | 5.284            | 2141804            | 18703.9            | 254.0           | 374827.3           | 253970            | 1003.941 ng/ml   |
| Fentanyl                     | 5.117            | 507398             | 24072.6            | 68.4            | 128819.1           | 226147            | 110.947 ng/ml  |
| Fluoxetine                   | 5.710            | 2550070            | 247101.4           | 8.2             | 195563.3           | 108354            | 980.420 ng/ml  |
| Hydrocodone                  | 3.058            | 2169610            | 656.5              | 44.3            | 2512.1             | 149365            | 978.364 ng/ml  |
| Hydromorphone                | 1.663            | 1439801            | ∞                  | 80.2            | ∞                  | 66359             | 867.951 ng/ml  |
| Ketamine                     | 4.071            | 5036050            | 212330.1           | 33.6            | 13557.2            | 264335            | 961.614 ng/ml  |
| <del>Lamotrigine</del>       | <del>4.319</del> | <del>268830</del>  | <del>2268.4</del>  | <del>87.7</del> | <del>3227.1</del>  | <del>89338</del>  | <del>756.477 ng/ml</del> <span style="color:red">NE</span>   |
| <del>Lorazepam</del>         | <del>5.745</del> | <del>282113</del>  | <del>8431.8</del>  | <del>64.3</del> | <del>5616.7</del>  | <del>96142</del>  | <del>236.771 ng/ml</del> <span style="color:blue">OCR</span> |
| Meprobamate                  | 4.932            | 1834751            | 184829.4           | 30.2            | 34653.8            | 87203             | 1014.827 ng/ml   |
| Methadone                    | 5.664            | 6749484            | 41253.3            | 59.5            | 1716.0             | 353294            | 1013.946 ng/ml   |
| <del>Methamphetamine</del>   | <del>3.269</del> | <del>3842432</del> | <del>2543.8</del>  | <del>39.9</del> | <del>11726.8</del> | <del>159438</del> | <del>999.346 ng/ml</del> <span style="color:red">NE</span>   |
| Metoprolol                   | 4.354            | 909317             | 5234.4             | 98.4            | 10400.7            | 740987            | 661.563 ng/ml <span style="color:blue">OCR</span>            |

# AM #28 Multi-Drug Quant. Results

| Name                 | RT               | Resp.             | S/N                | Ratio           | S/N               | ISTD Resp.       | Final Conc.   |
|----------------------|------------------|-------------------|--------------------|-----------------|-------------------|------------------|---|
| Mirtazapine          | 4.635            | 9244824           | 16918.5            | 49.5            | 3565.1            | 353294           | 1047.983 ng/ml  |
| Mitragynine          | 5.234            | 1067758           | 1370977.9          | 37.1            | 535531.2          | 353294           | 988.619 ng/ml   |
| Morphine             | 1.222            | 276808            | 70643.4            | 31.7            | 63690.8           | 2095             | 1067.357 ng/ml  |
| Norbuprenorphine     | 5.019            | 16489             | 7227.8             | 106.7           | 24070.4           | 9612             | 98.741 ng/ml  |
| Nordiazepam          | 5.892            | 1459787           | 45098.7            | 55.2            | 549873.6          | 52019            | 984.915 ng/ml   |
| Norfentanyl          | 4.112            | 792138            | 139513.7           | 41.0            | 2060.6            | 328486           | 107.202 ng/ml   |
| Norhydrocodone       | <del>3.110</del> | <del>188089</del> | <del>15286.3</del> | <del>42.5</del> | <del>2308.6</del> | <del>39296</del> | <del>1654.818 ng/ml</del> <span style="color: red;">NE</span> |
| Noroxycodone         | 2.956            | 1355778           | 884.8              | 46.9            | 708.8             | 50265            | 1002.118 ng/ml  |
| O-desmethyl-tramadol | 3.411            | 12807545          | 594335.1           | 6.1             | 57298.4           | 653574           | 1035.079 ng/ml  |
| Oxazepam             | 5.752            | 451824            | 7601.9             | 67.7            | 1151.4            | 30262            | 993.040 ng/ml   |
| Oxycodone            | 2.879            | 4058615           | 42625.7            | 34.2            | 2312.2            | 215040           | 1052.252 ng/ml  |
| Oxymorphone          | 1.460            | 1010732           | 2460.1             | 50.6            | 18.2              | 40423            | 1015.682 ng/ml  |
| Phentermine          | 3.813            | 1835983           | 8709.7             | 5.0             | 1463.4            | 246007           | 896.253 ng/ml   |
| Promethazine         | 5.559            | 6047048           | 94429.2            | 30.9            | 3265.0            | 261031           | 1013.119 ng/ml  |
| Quetiapine           | 5.534            | 4310305           | 166448.5           | 61.6            | 2083740.8         | 78667            | 904.357 ng/ml   |
| Sertraline           | 5.782            | 875868            | 76786.8            | 92.8            | 257222.5          | 38390            | 1012.587 ng/ml  |
| Temazepam            | 5.825            | 4298788           | 128988.4           | 28.0            | 6005.4            | 175703           | 1100.593 ng/ml  |
| Tramadol             | 4.268            | 10610520          | 684634.9           | 3.3             | 7050.9            | 609253           | 1011.006 ng/ml  |
| Trazodone            | 5.106            | 5808550           | 226474.5           | 81.1            | 399601.8          | 249658           | 1025.288 ng/ml  |
| Venlafaxine          | 5.068            | 10241514          | 502562.3           | 34.9            | 14128.6           | 511059           | 1009.948 ng/ml  |
| Zolpidem             | 4.873            | 11071397          | 6106.6             | 27.5            | 1614.9            | 538908           | 996.101 ng/ml   |

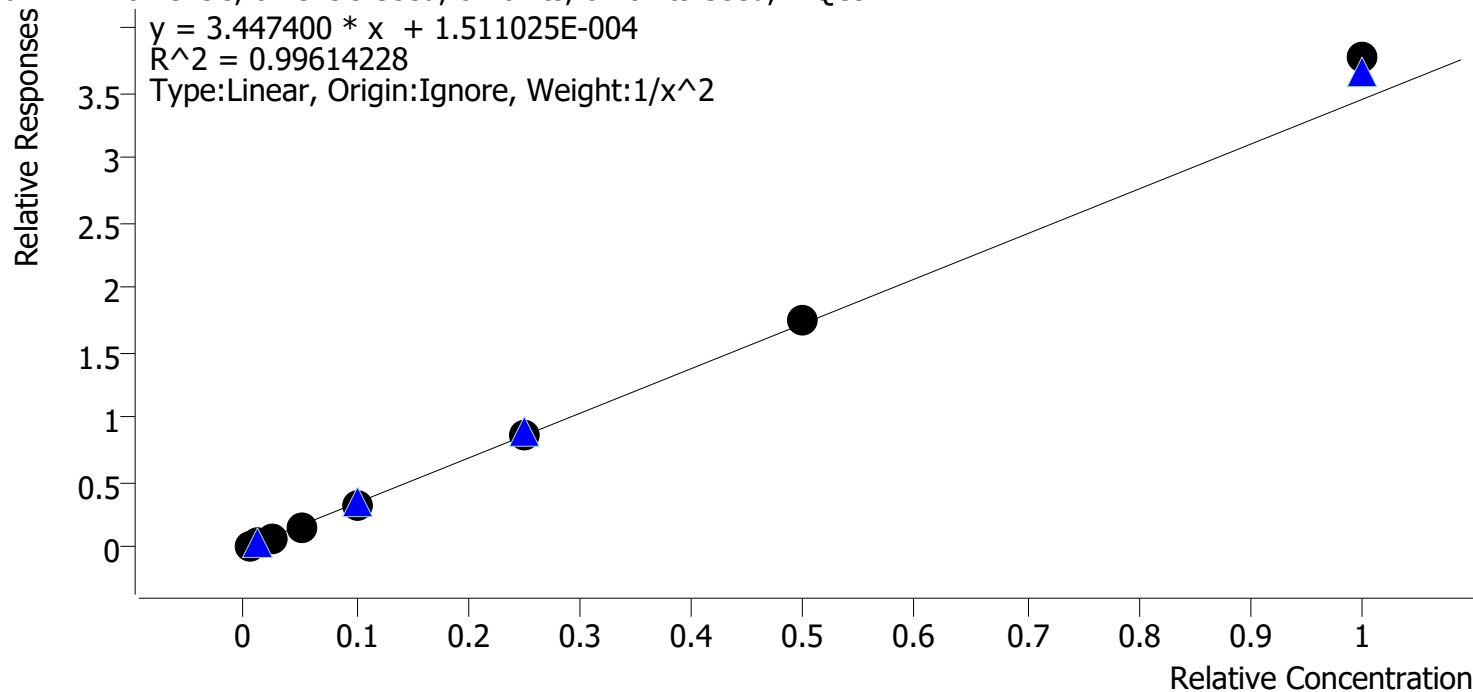
2/24/20: Methamphetamine, Lamotrigine and norhydrocodone were not evaluated in this batch *BW*

2/24/20: 7-aminoclonazepam, metoprolol, lorazepam and buprenorphine are outside the curve range of this batch for QC 1000 *BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

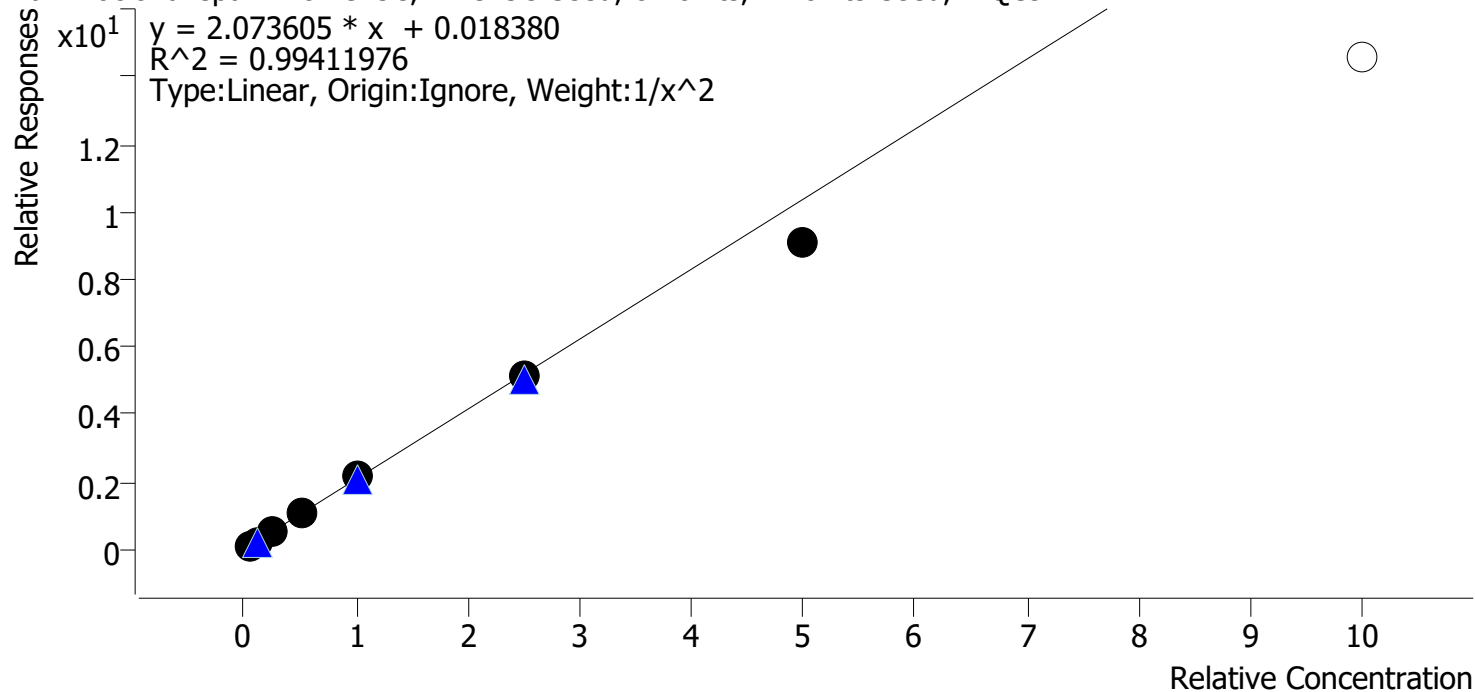


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 0.5                    | 0.5                 | 99.7     |
| cal 2  | 2     | ✓       | 1.0                    | 1.0                 | 104.3    |
| cal 3  | 3     | ✓       | 2.5                    | 2.3                 | 92.9     |
| cal 4  | 4     | ✓       | 5.0                    | 4.9                 | 97.9     |
| cal 5  | 5     | ✓       | 10.0                   | 9.4                 | 93.6     |
| cal 6  | 6     | ✓       | 25.0                   | 25.4                | 101.4    |
| cal 7  | 7     | ✓       | 50.0                   | 50.4                | 100.8    |
| cal 8  | 8     | ✓       | 100.0                  | 109.3               | 109.3    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

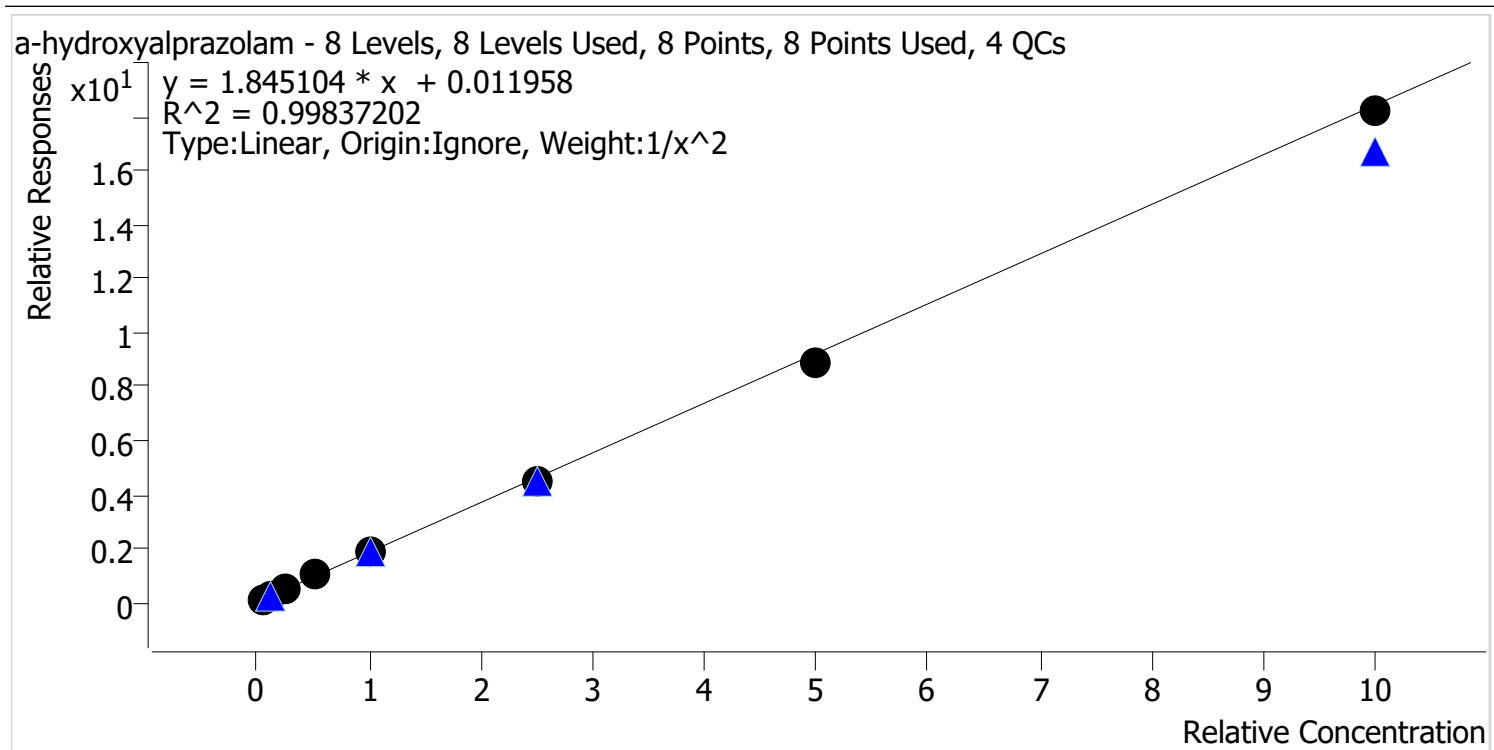
7-aminoclonazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 97.1     |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 102.4    |
| cal 3  | 3     | ✓       | 25.0                   | 26.3                | 105.4    |
| cal 4  | 4     | ✓       | 50.0                   | 53.3                | 106.6    |
| cal 5  | 5     | ✓       | 100.0                  | 102.2               | 102.2    |
| cal 6  | 6     | ✓       | 250.0                  | 247.5               | 99.0     |
| cal 7  | 7     | ✓       | 500.0                  | 436.5               | 87.3     |
| cal 8  | 8     | ✗       | 1000.0                 | 702.2               | 70.2     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

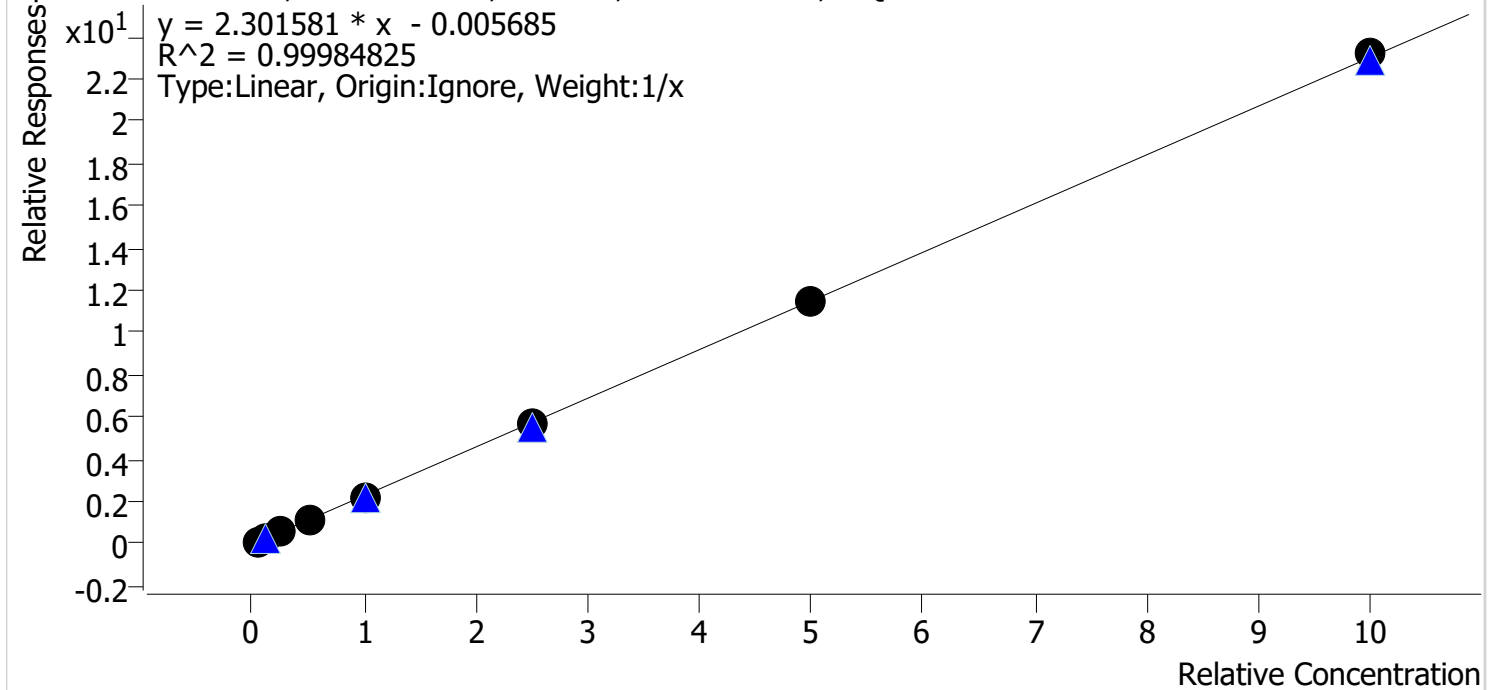


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.4     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.1    |
| cal 3  | 3     | ✓       | 25.0                   | 25.7                | 102.6    |
| cal 4  | 4     | ✓       | 50.0                   | 53.5                | 107.0    |
| cal 5  | 5     | ✓       | 100.0                  | 98.8                | 98.8     |
| cal 6  | 6     | ✓       | 250.0                  | 241.9               | 96.8     |
| cal 7  | 7     | ✓       | 500.0                  | 482.5               | 96.5     |
| cal 8  | 8     | ✓       | 1000.0                 | 987.5               | 98.8     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

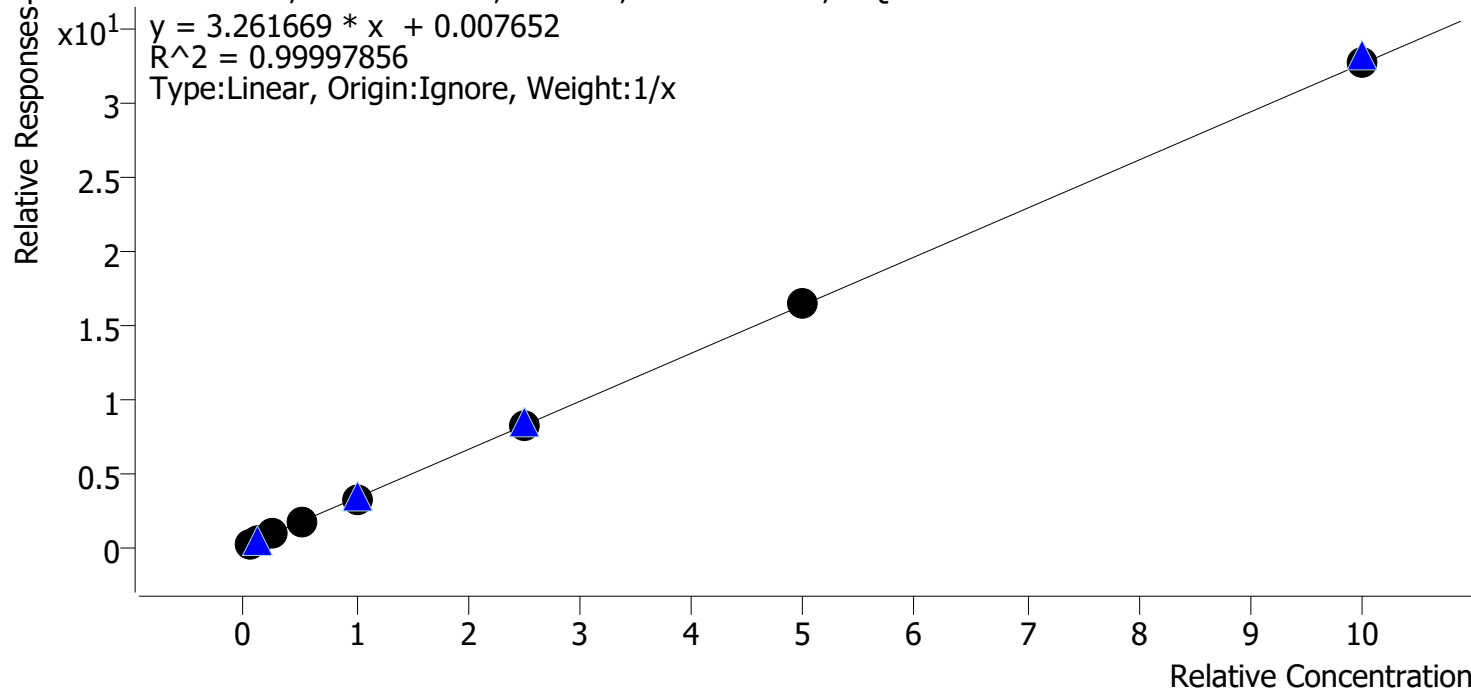


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.3                 | 106.3    |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 100.4    |
| cal 3  | 3     | ✓       | 25.0                   | 24.6                | 98.3     |
| cal 4  | 4     | ✓       | 50.0                   | 49.7                | 99.4     |
| cal 5  | 5     | ✓       | 100.0                  | 96.1                | 96.1     |
| cal 6  | 6     | ✓       | 250.0                  | 247.8               | 99.1     |
| cal 7  | 7     | ✓       | 500.0                  | 498.5               | 99.7     |
| cal 8  | 8     | ✓       | 1000.0                 | 1008.0              | 100.8    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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

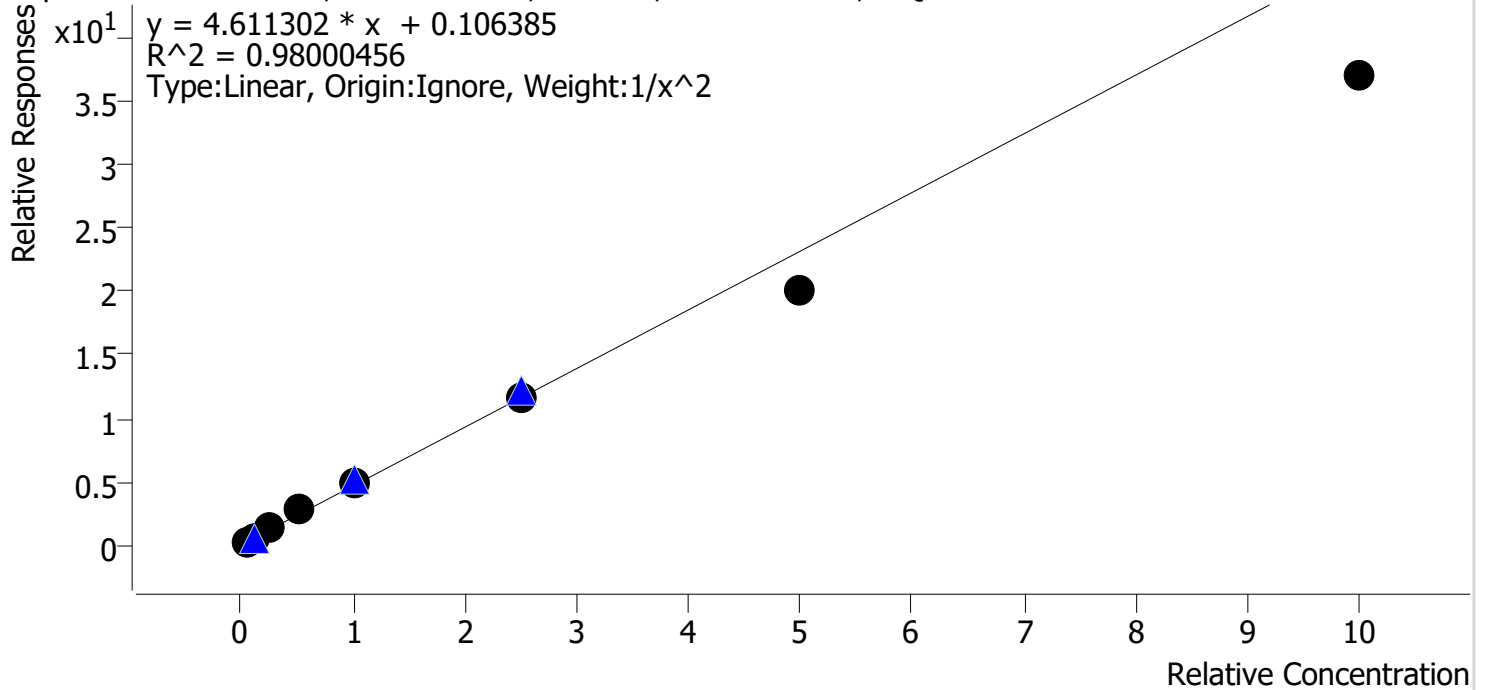


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.9     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 100.6    |
| cal 3  | 3     | ✓       | 25.0                   | 24.8                | 99.4     |
| cal 4  | 4     | ✓       | 50.0                   | 51.1                | 102.1    |
| cal 5  | 5     | ✓       | 100.0                  | 99.4                | 99.4     |
| cal 6  | 6     | ✓       | 250.0                  | 248.5               | 99.4     |
| cal 7  | 7     | ✓       | 500.0                  | 500.8               | 100.2    |
| cal 8  | 8     | ✓       | 1000.0                 | 1000.3              | 100.0    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



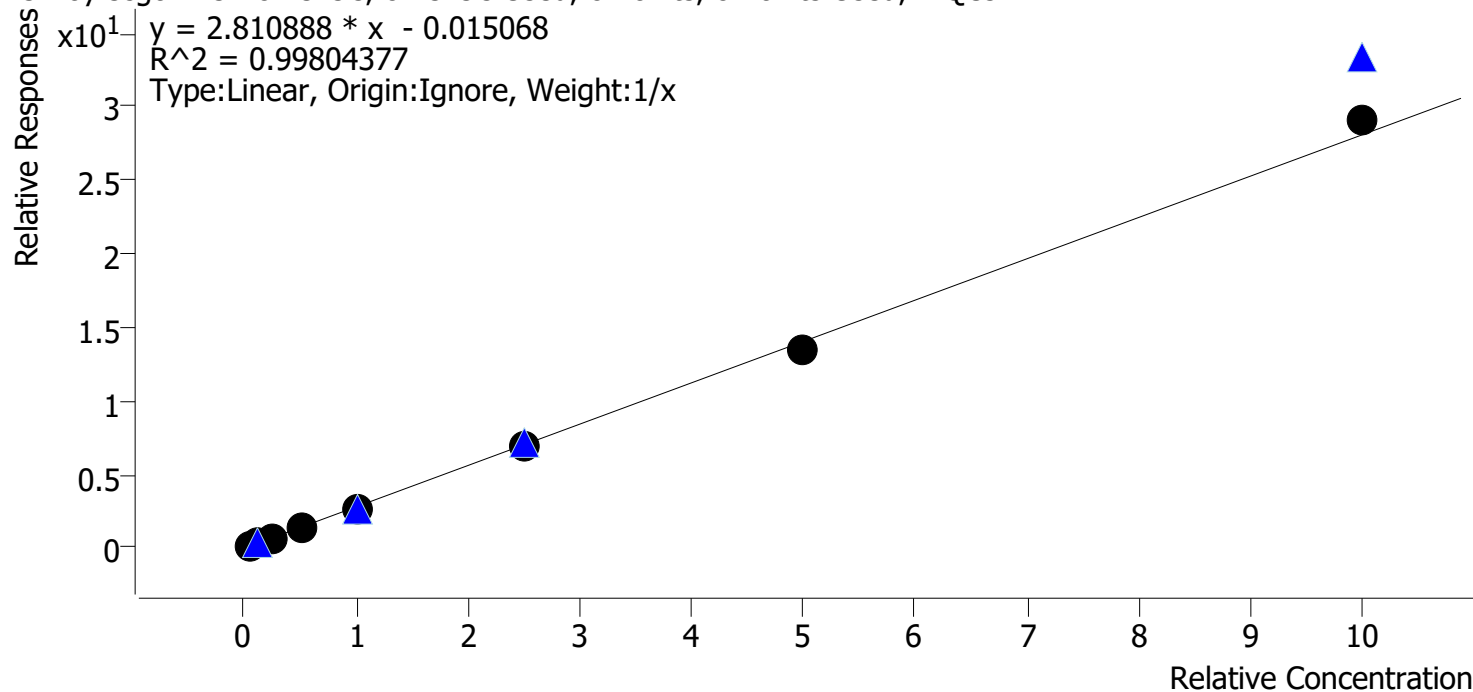
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.7                 | 94.9     |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 102.3    |
| cal 3  | 3     | ✓       | 25.0                   | 27.6                | 110.4    |
| cal 4  | 4     | ✓       | 50.0                   | 58.8                | 117.6    |
| cal 5  | 5     | ✓       | 100.0                  | 107.7               | 107.7    |
| cal 6  | 6     | ✓       | 250.0                  | 250.4               | 100.2    |
| cal 7  | 7     | ✓       | 500.0                  | 434.6               | 86.9     |
| cal 8  | 8     | ✓       | 1000.0                 | 800.8               | 80.1     |



## Compound Calibration Report

|                         |  |                          |                    |
|-------------------------|--|--------------------------|--------------------|
| <b>Batch results</b>    | D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin |                          |                    |
| <b>Last Cal. Update</b> | 2/24/2020 2:56 PM  |                          |                    |
| <b>Analyst Name</b>     | ISP\datastor   |                          |                    |
| <b>Analyte</b>          | Benzoylecgonine  | <b>Internal Standard</b> | Benzoylecgonine-d8 |

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



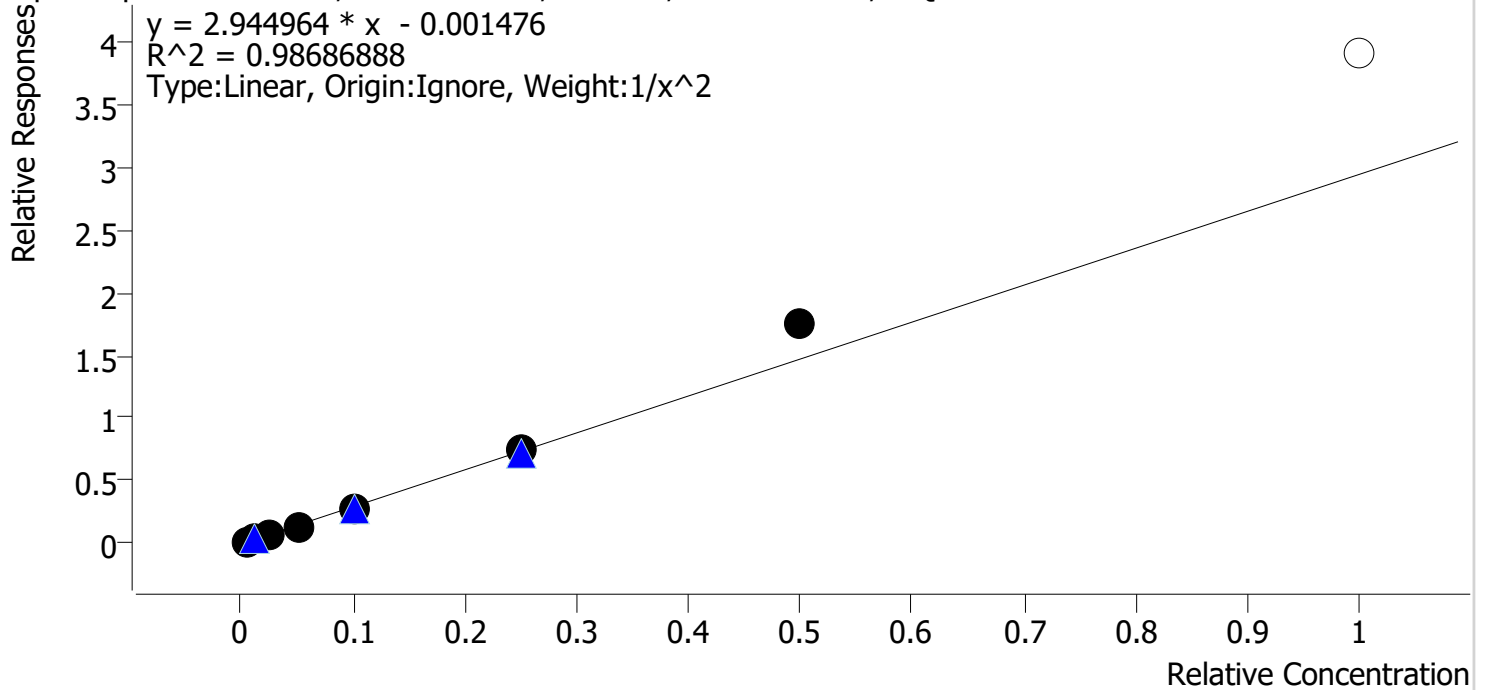
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.9                 | 117.9    |
| cal 2  | 2     | ✓       | 10.0                   | 10.6                | 106.1    |
| cal 3  | 3     | ✓       | 25.0                   | 23.5                | 94.1     |
| cal 4  | 4     | ✓       | 50.0                   | 46.1                | 92.2     |
| cal 5  | 5     | ✓       | 100.0                  | 92.1                | 92.1     |
| cal 6  | 6     | ✓       | 250.0                  | 244.5               | 97.8     |
| cal 7  | 7     | ✓       | 500.0                  | 480.4               | 96.1     |
| cal 8  | 8     | ✓       | 1000.0                 | 1036.9              | 103.7    |

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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



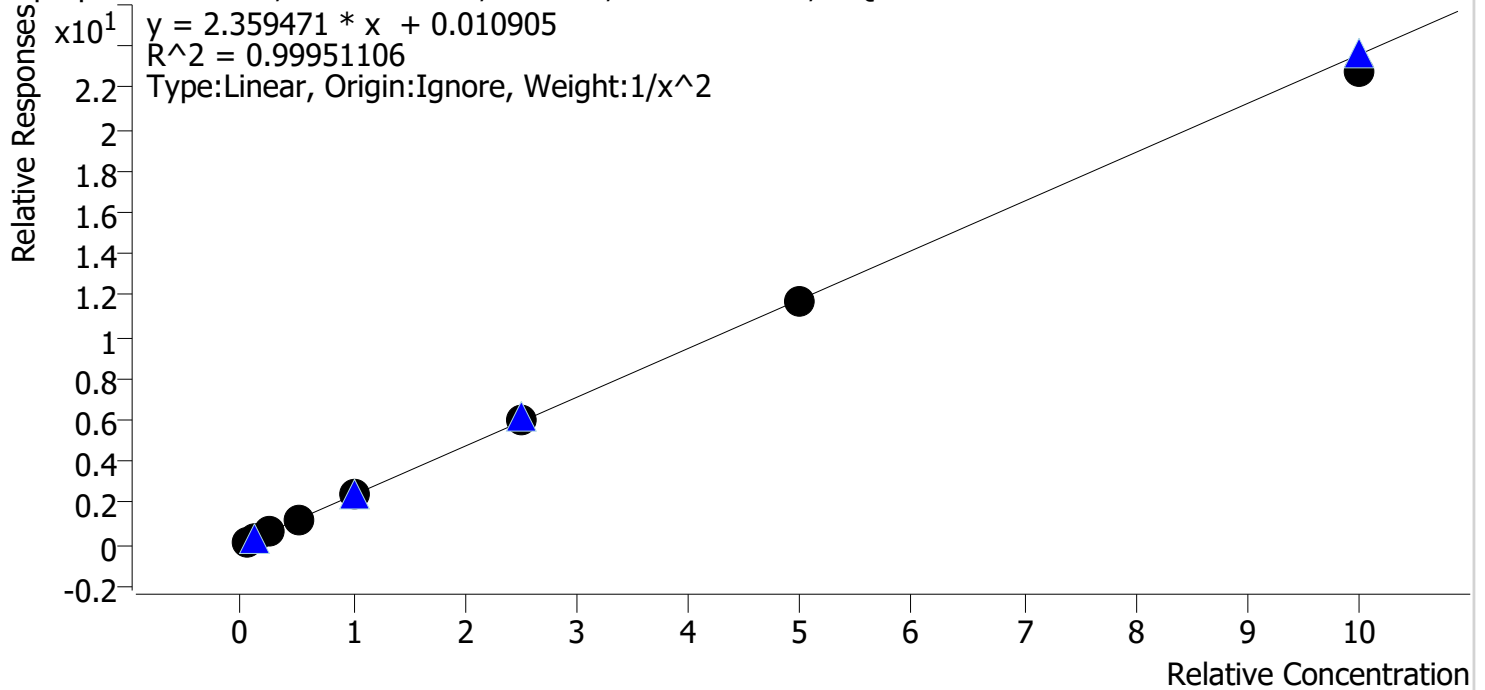
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 0.5                    | 0.5                 | 105.1    |
| cal 2  | 2     | ✓       | 1.0                    | 0.9                 | 94.3     |
| cal 3  | 3     | ✓       | 2.5                    | 2.3                 | 90.8     |
| cal 4  | 4     | ✓       | 5.0                    | 4.9                 | 97.0     |
| cal 5  | 5     | ✓       | 10.0                   | 9.3                 | 93.4     |
| cal 6  | 6     | ✓       | 25.0                   | 25.0                | 100.1    |
| cal 7  | 7     | ✓       | 50.0                   | 59.7                | 119.3    |
| cal 8  | 8     | x       | 100.0                  | 132.7               | 132.7    |

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

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

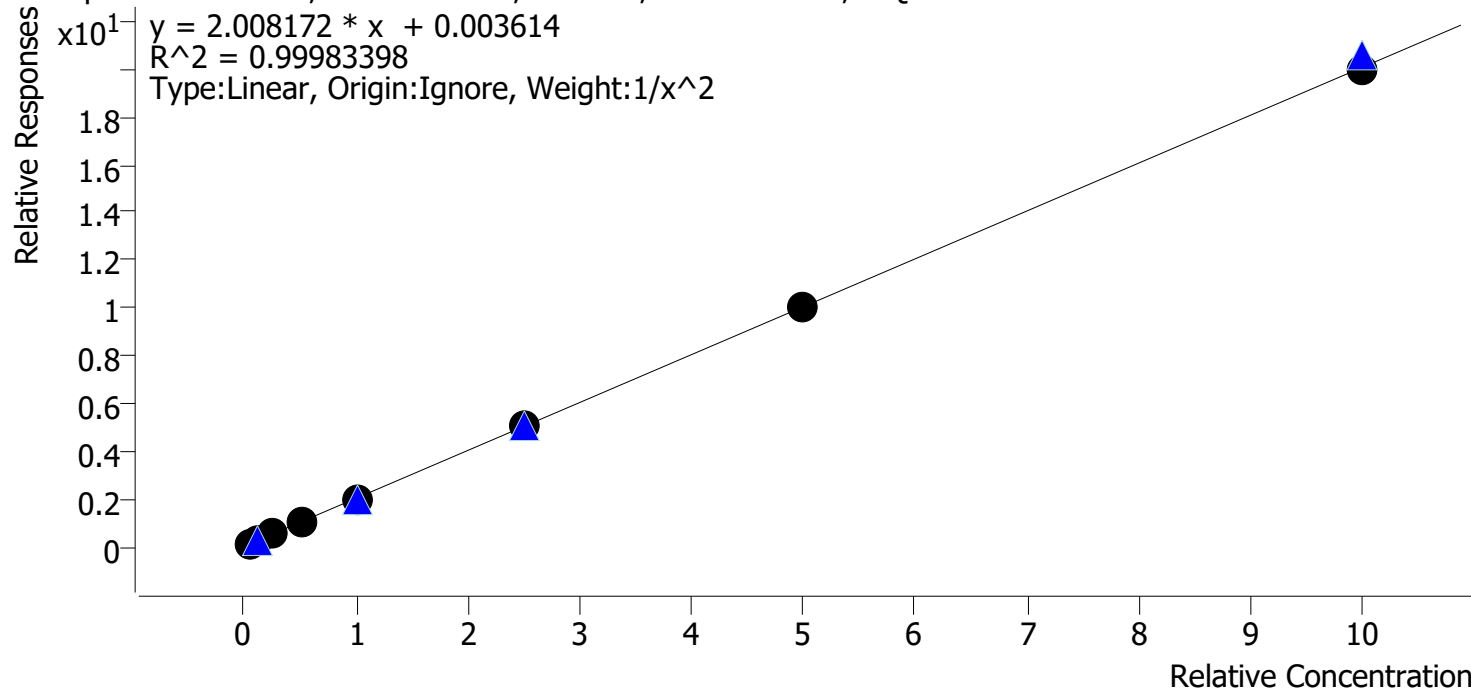


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 99.3     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 100.3    |
| cal 3  | 3     | ✓       | 25.0                   | 25.4                | 101.5    |
| cal 4  | 4     | ✓       | 50.0                   | 51.4                | 102.8    |
| cal 5  | 5     | ✓       | 100.0                  | 100.0               | 100.0    |
| cal 6  | 6     | ✓       | 250.0                  | 252.0               | 100.8    |
| cal 7  | 7     | ✓       | 500.0                  | 494.5               | 98.9     |
| cal 8  | 8     | ✓       | 1000.0                 | 963.8               | 96.4     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



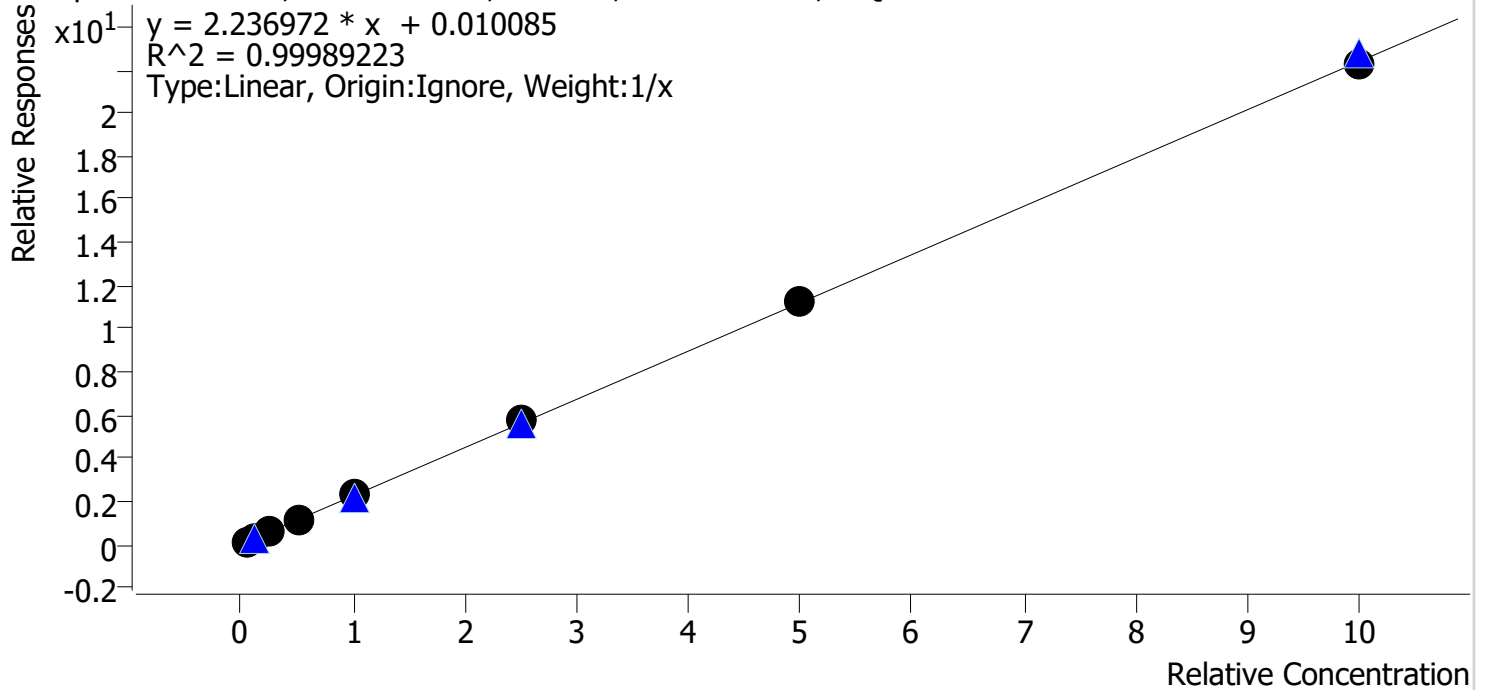
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 100.1    |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 99.7     |
| cal 3  | 3     | ✓       | 25.0                   | 24.9                | 99.8     |
| cal 4  | 4     | ✓       | 50.0                   | 50.8                | 101.6    |
| cal 5  | 5     | ✓       | 100.0                  | 97.8                | 97.8     |
| cal 6  | 6     | ✓       | 250.0                  | 251.9               | 100.8    |
| cal 7  | 7     | ✓       | 500.0                  | 503.0               | 100.6    |
| cal 8  | 8     | ✓       | 1000.0                 | 997.0               | 99.7     |

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

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

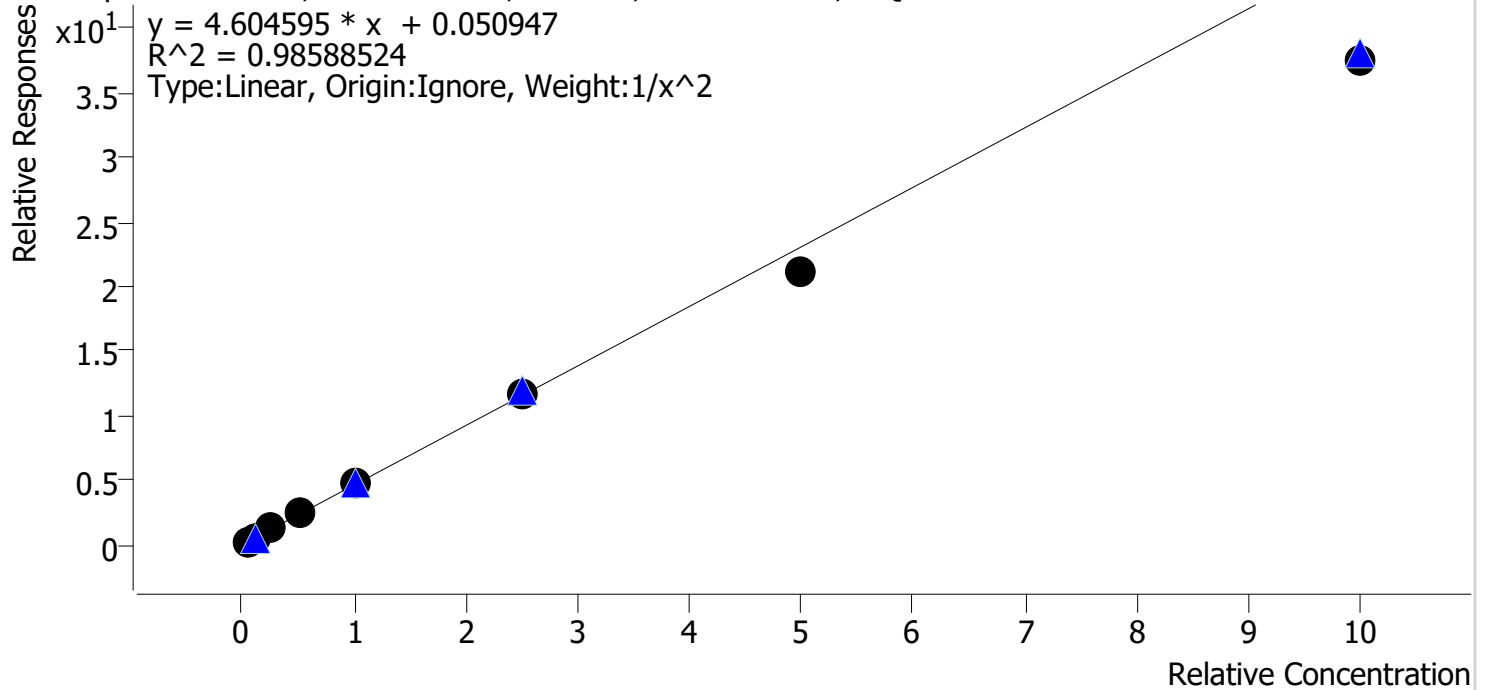


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 97.2     |
| cal 2  | 2     | ✓       | 10.0                   | 9.9                 | 99.5     |
| cal 3  | 3     | ✓       | 25.0                   | 25.1                | 100.5    |
| cal 4  | 4     | ✓       | 50.0                   | 50.1                | 100.3    |
| cal 5  | 5     | ✓       | 100.0                  | 100.9               | 100.9    |
| cal 6  | 6     | ✓       | 250.0                  | 254.3               | 101.7    |
| cal 7  | 7     | ✓       | 500.0                  | 503.6               | 100.7    |
| cal 8  | 8     | ✓       | 1000.0                 | 991.1               | 99.1     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

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

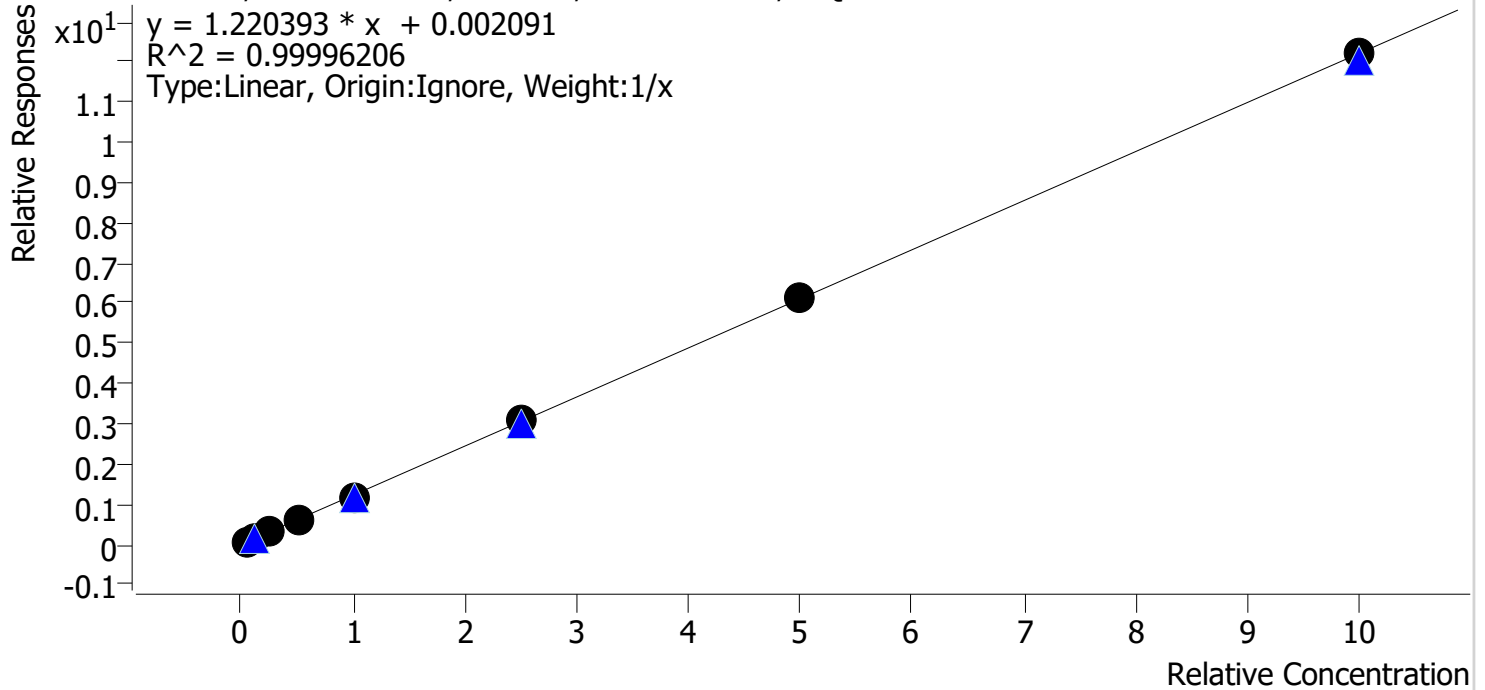


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.7                 | 93.5     |
| cal 2  | 2     | ✓       | 10.0                   | 10.7                | 106.5    |
| cal 3  | 3     | ✓       | 25.0                   | 27.6                | 110.2    |
| cal 4  | 4     | ✓       | 50.0                   | 55.4                | 110.8    |
| cal 5  | 5     | ✓       | 100.0                  | 104.9               | 104.9    |
| cal 6  | 6     | ✓       | 250.0                  | 253.2               | 101.3    |
| cal 7  | 7     | ✓       | 500.0                  | 456.2               | 91.2     |
| cal 8  | 8     | ✓       | 1000.0                 | 814.2               | 81.4     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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

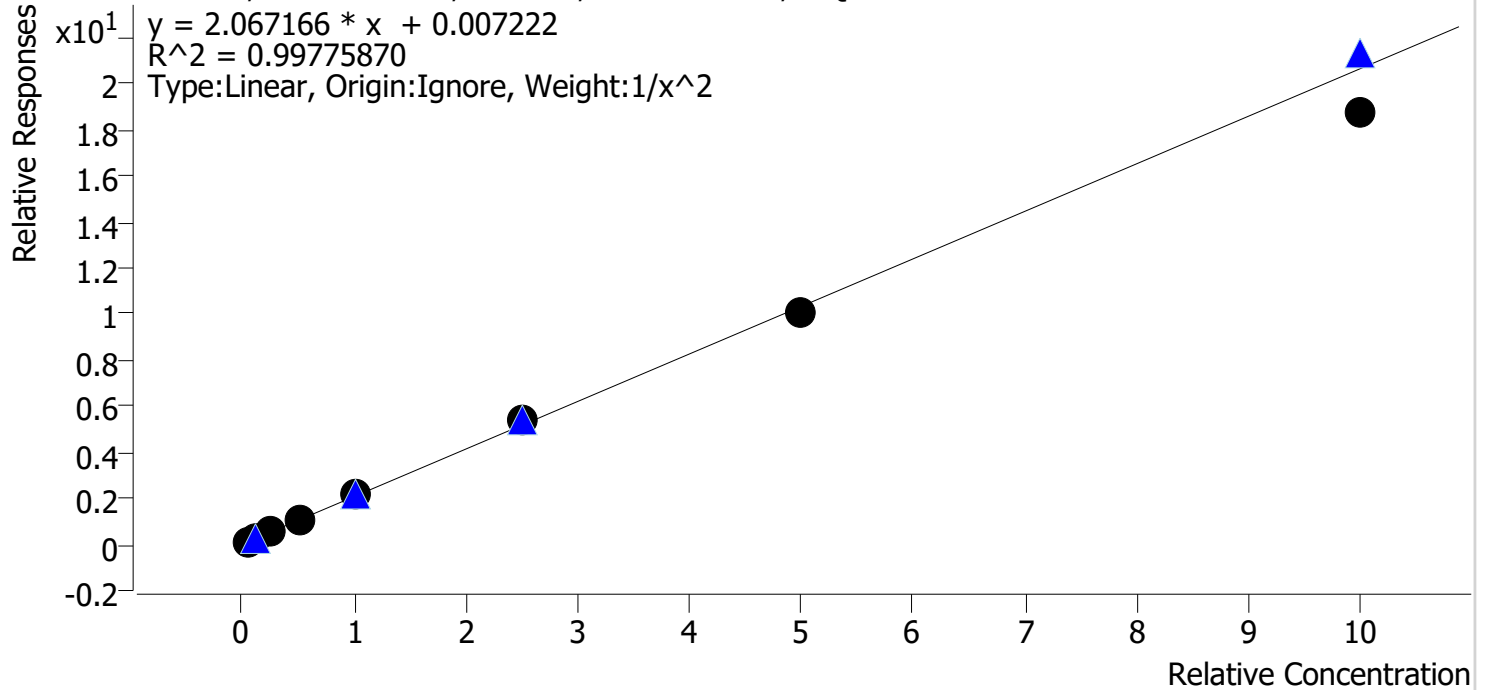


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.1                 | 101.9    |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 99.9     |
| cal 3  | 3     | ✓       | 25.0                   | 24.9                | 99.5     |
| cal 4  | 4     | ✓       | 50.0                   | 50.3                | 100.6    |
| cal 5  | 5     | ✓       | 100.0                  | 97.8                | 97.8     |
| cal 6  | 6     | ✓       | 250.0                  | 249.9               | 100.0    |
| cal 7  | 7     | ✓       | 500.0                  | 502.5               | 100.5    |
| cal 8  | 8     | ✓       | 1000.0                 | 999.6               | 100.0    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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



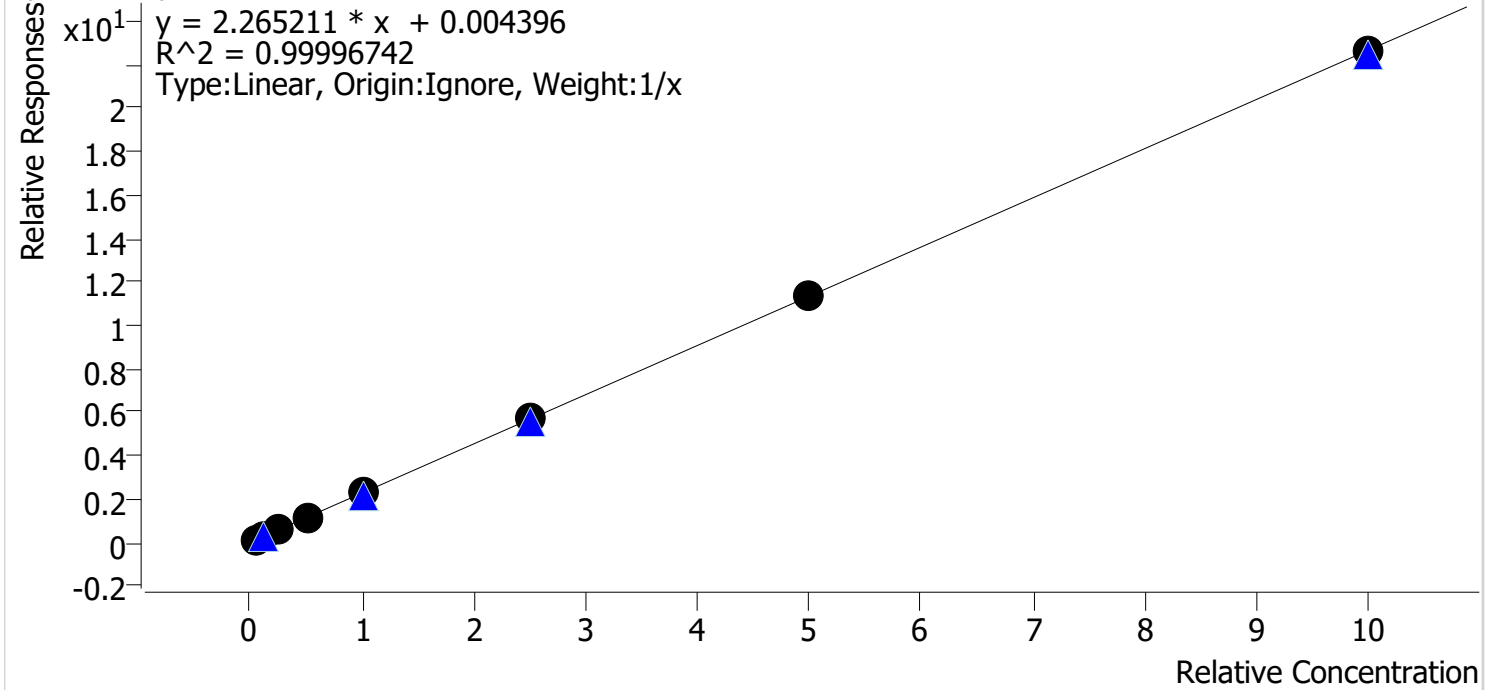
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.6     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 100.7    |
| cal 3  | 3     | ✓       | 25.0                   | 25.9                | 103.7    |
| cal 4  | 4     | ✓       | 50.0                   | 51.3                | 102.6    |
| cal 5  | 5     | ✓       | 100.0                  | 101.9               | 101.9    |
| cal 6  | 6     | ✓       | 250.0                  | 258.2               | 103.3    |
| cal 7  | 7     | ✓       | 500.0                  | 490.3               | 98.1     |
| cal 8  | 8     | ✓       | 1000.0                 | 912.1               | 91.2     |



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

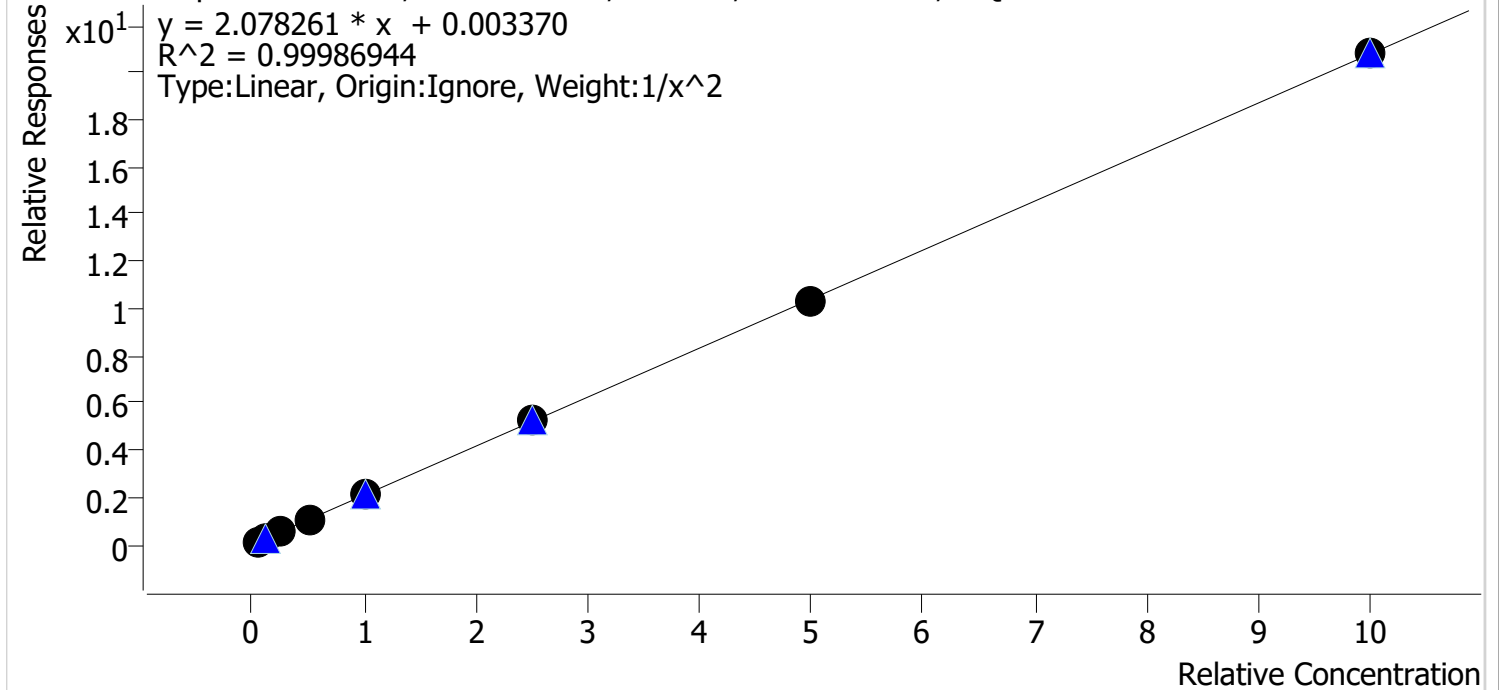


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 99.2     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 99.8     |
| cal 3  | 3     | ✓       | 25.0                   | 25.0                | 99.8     |
| cal 4  | 4     | ✓       | 50.0                   | 50.9                | 101.8    |
| cal 5  | 5     | ✓       | 100.0                  | 99.5                | 99.5     |
| cal 6  | 6     | ✓       | 250.0                  | 248.8               | 99.5     |
| cal 7  | 7     | ✓       | 500.0                  | 503.6               | 100.7    |
| cal 8  | 8     | ✓       | 1000.0                 | 997.4               | 99.7     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

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

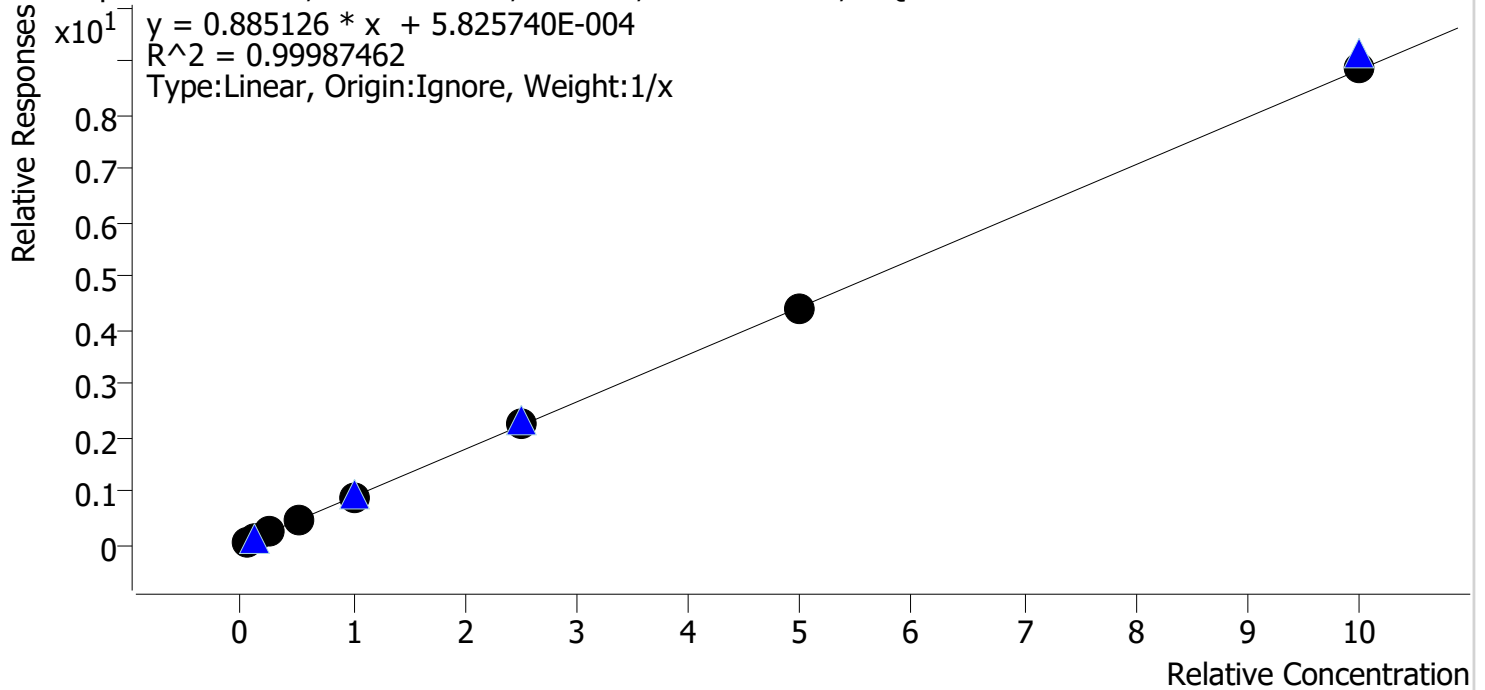


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 100.5    |
| cal 2  | 2     | ✓       | 10.0                   | 9.9                 | 99.4     |
| cal 3  | 3     | ✓       | 25.0                   | 24.7                | 98.9     |
| cal 4  | 4     | ✓       | 50.0                   | 50.2                | 100.3    |
| cal 5  | 5     | ✓       | 100.0                  | 99.0                | 99.0     |
| cal 6  | 6     | ✓       | 250.0                  | 255.0               | 102.0    |
| cal 7  | 7     | ✓       | 500.0                  | 499.0               | 99.8     |
| cal 8  | 8     | ✓       | 1000.0                 | 1000.6              | 100.1    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

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

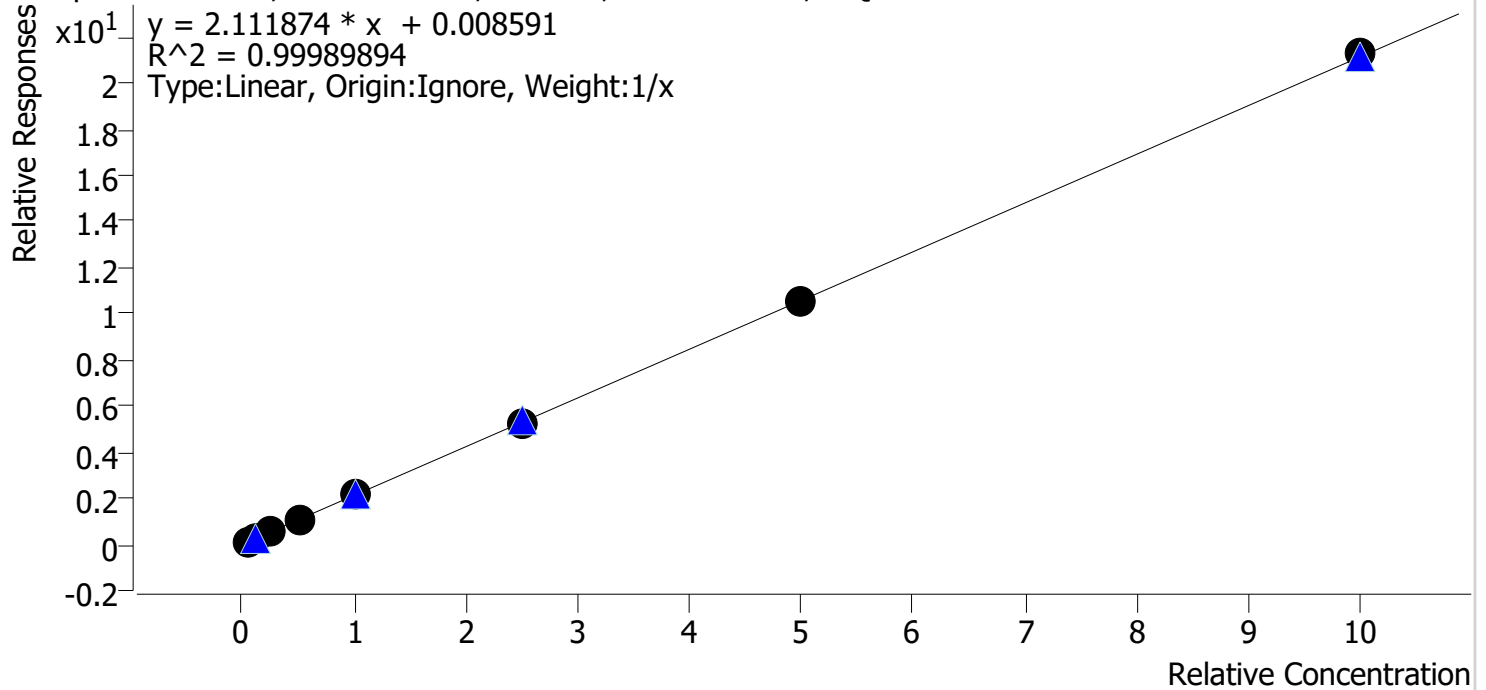


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.2                 | 104.5    |
| cal 2  | 2     | ✓       | 10.0                   | 9.7                 | 97.3     |
| cal 3  | 3     | ✓       | 25.0                   | 24.8                | 99.1     |
| cal 4  | 4     | ✓       | 50.0                   | 50.9                | 101.8    |
| cal 5  | 5     | ✓       | 100.0                  | 96.9                | 96.9     |
| cal 6  | 6     | ✓       | 250.0                  | 251.9               | 100.7    |
| cal 7  | 7     | ✓       | 500.0                  | 495.1               | 99.0     |
| cal 8  | 8     | ✓       | 1000.0                 | 1005.5              | 100.5    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5

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

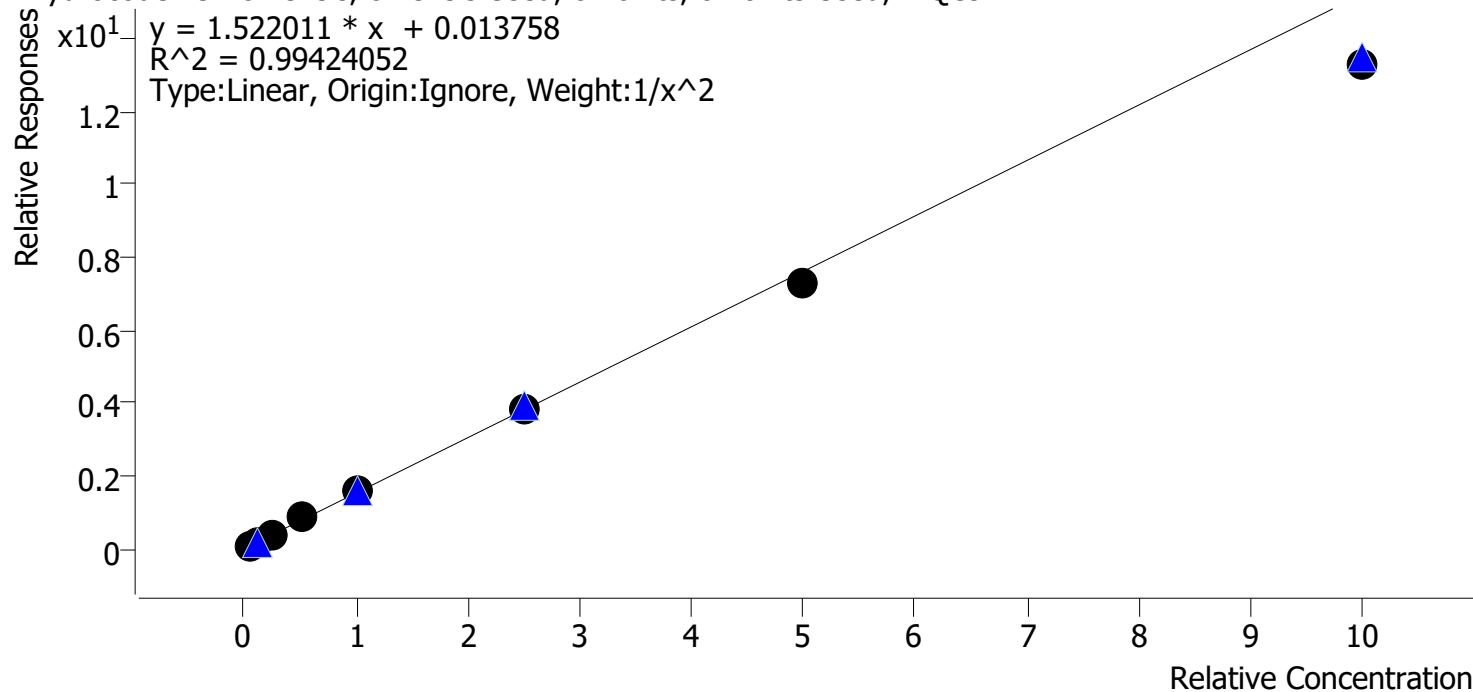


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 97.2     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.4    |
| cal 3  | 3     | ✓       | 25.0                   | 25.5                | 102.1    |
| cal 4  | 4     | ✓       | 50.0                   | 51.0                | 102.0    |
| cal 5  | 5     | ✓       | 100.0                  | 98.7                | 98.7     |
| cal 6  | 6     | ✓       | 250.0                  | 246.0               | 98.4     |
| cal 7  | 7     | ✓       | 500.0                  | 497.0               | 99.4     |
| cal 8  | 8     | ✓       | 1000.0                 | 1006.7              | 100.7    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

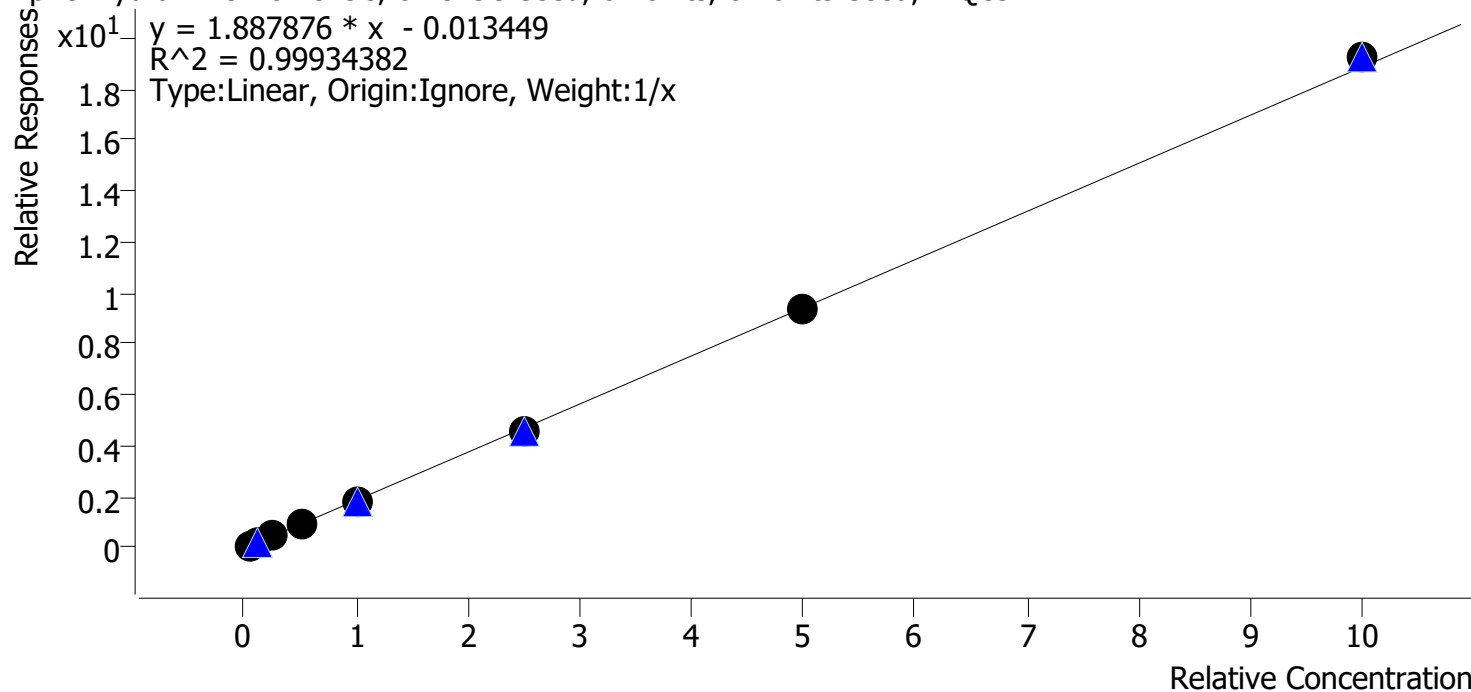


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 97.9     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 100.3    |
| cal 3  | 3     | ✓       | 25.0                   | 26.2                | 104.9    |
| cal 4  | 4     | ✓       | 50.0                   | 54.1                | 108.3    |
| cal 5  | 5     | ✓       | 100.0                  | 104.7               | 104.7    |
| cal 6  | 6     | ✓       | 250.0                  | 252.9               | 101.2    |
| cal 7  | 7     | ✓       | 500.0                  | 478.0               | 95.6     |
| cal 8  | 8     | ✓       | 1000.0                 | 871.4               | 87.1     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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

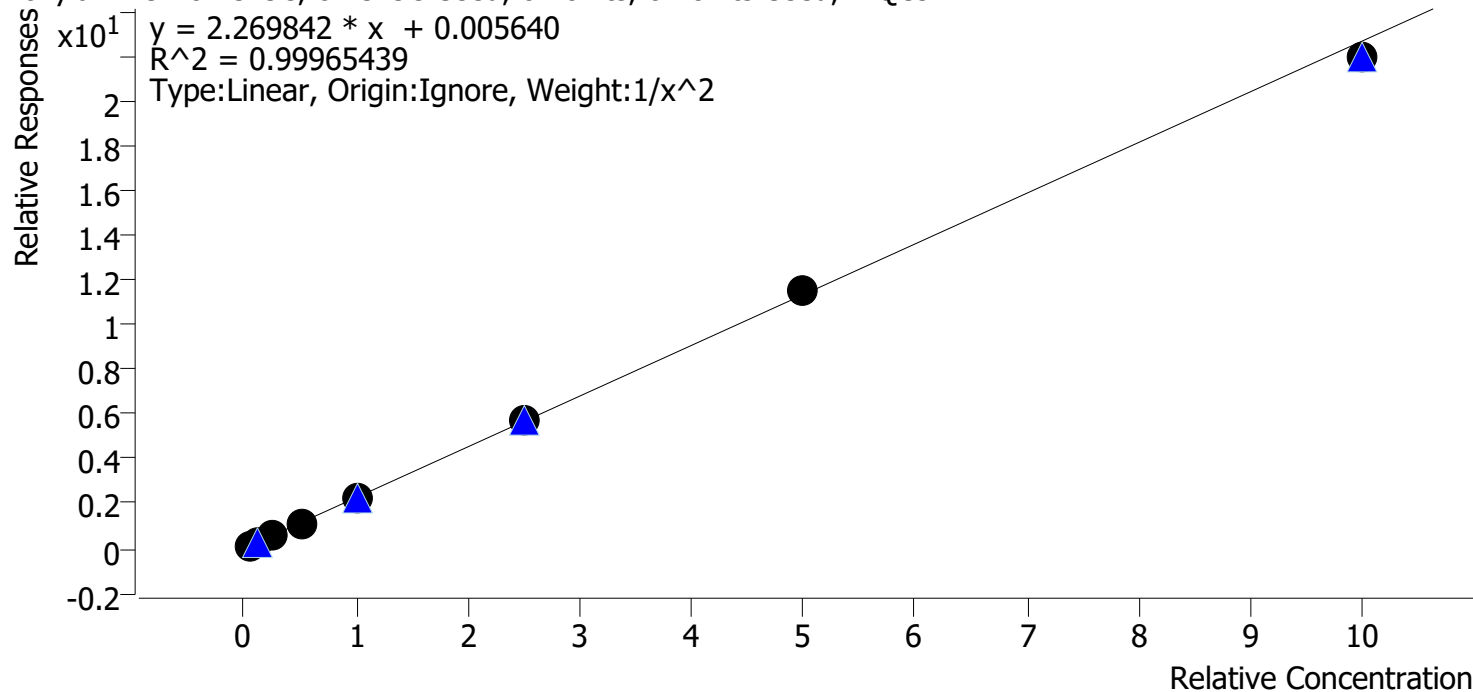


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.6                 | 112.8    |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.4    |
| cal 3  | 3     | ✓       | 25.0                   | 24.0                | 96.1     |
| cal 4  | 4     | ✓       | 50.0                   | 49.0                | 97.9     |
| cal 5  | 5     | ✓       | 100.0                  | 93.6                | 93.6     |
| cal 6  | 6     | ✓       | 250.0                  | 243.2               | 97.3     |
| cal 7  | 7     | ✓       | 500.0                  | 495.2               | 99.0     |
| cal 8  | 8     | ✓       | 1000.0                 | 1019.3              | 101.9    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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

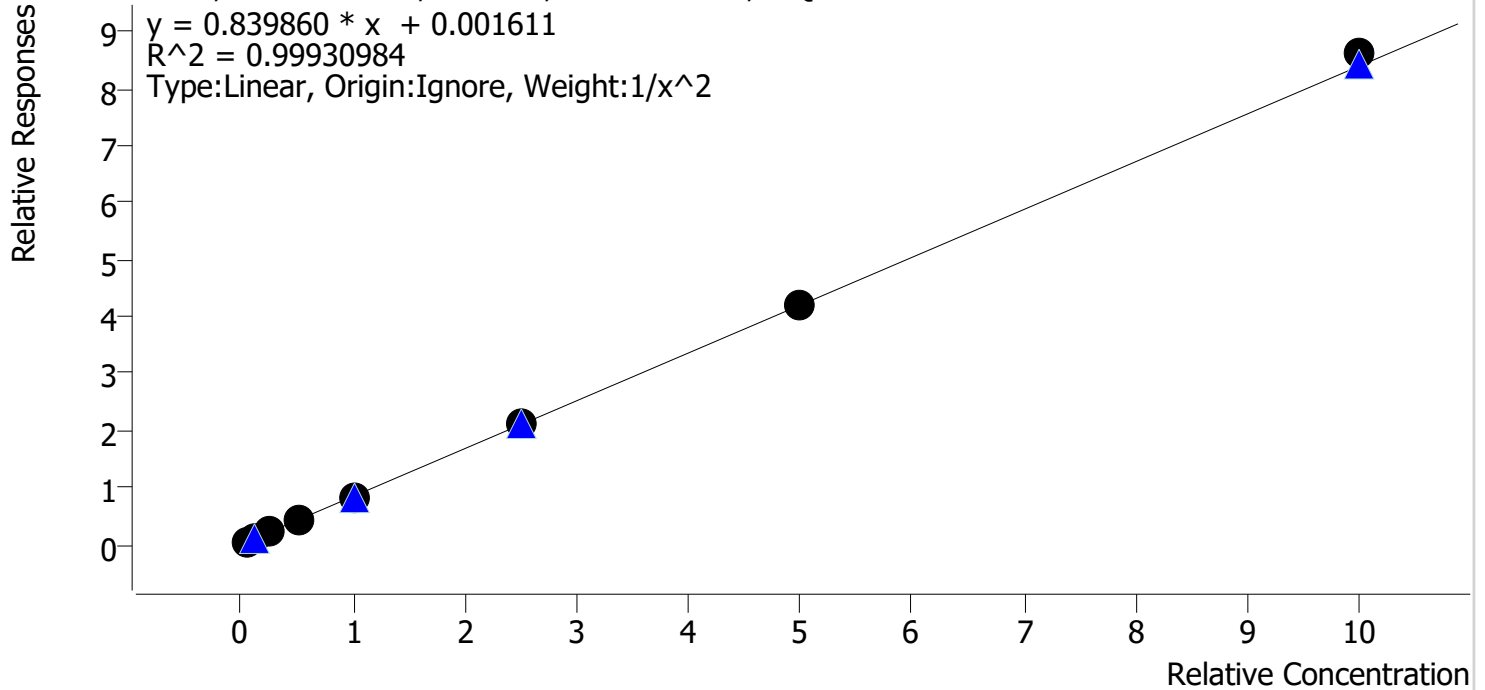


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 99.9     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 100.0    |
| cal 3  | 3     | ✓       | 25.0                   | 24.9                | 99.5     |
| cal 4  | 4     | ✓       | 50.0                   | 50.9                | 101.7    |
| cal 5  | 5     | ✓       | 100.0                  | 99.3                | 99.3     |
| cal 6  | 6     | ✓       | 250.0                  | 253.6               | 101.4    |
| cal 7  | 7     | ✓       | 500.0                  | 506.7               | 101.3    |
| cal 8  | 8     | ✓       | 1000.0                 | 967.4               | 96.7     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

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



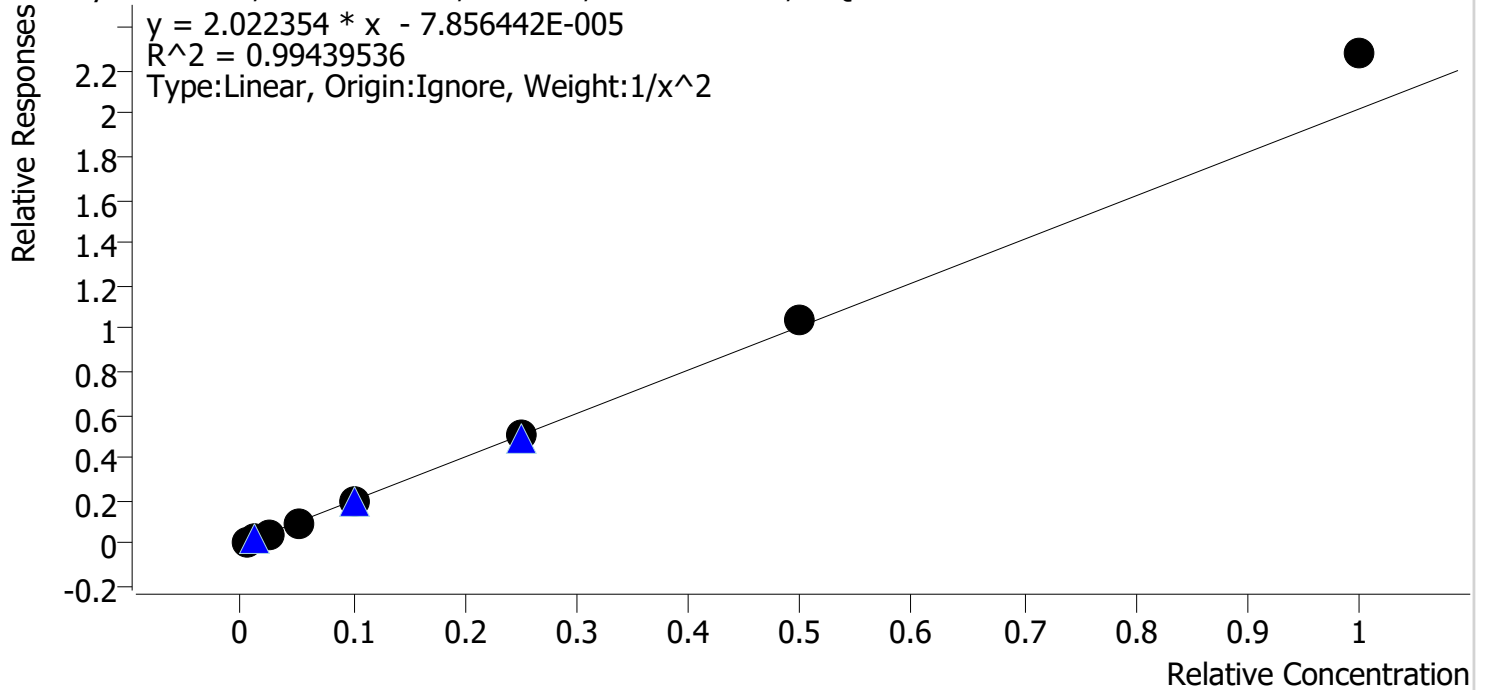
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.1                 | 102.0    |
| cal 2  | 2     | ✓       | 10.0                   | 9.6                 | 96.3     |
| cal 3  | 3     | ✓       | 25.0                   | 24.7                | 98.9     |
| cal 4  | 4     | ✓       | 50.0                   | 51.0                | 102.0    |
| cal 5  | 5     | ✓       | 100.0                  | 97.4                | 97.4     |
| cal 6  | 6     | ✓       | 250.0                  | 250.7               | 100.3    |
| cal 7  | 7     | ✓       | 500.0                  | 502.6               | 100.5    |
| cal 8  | 8     | ✓       | 1000.0                 | 1026.2              | 102.6    |



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

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

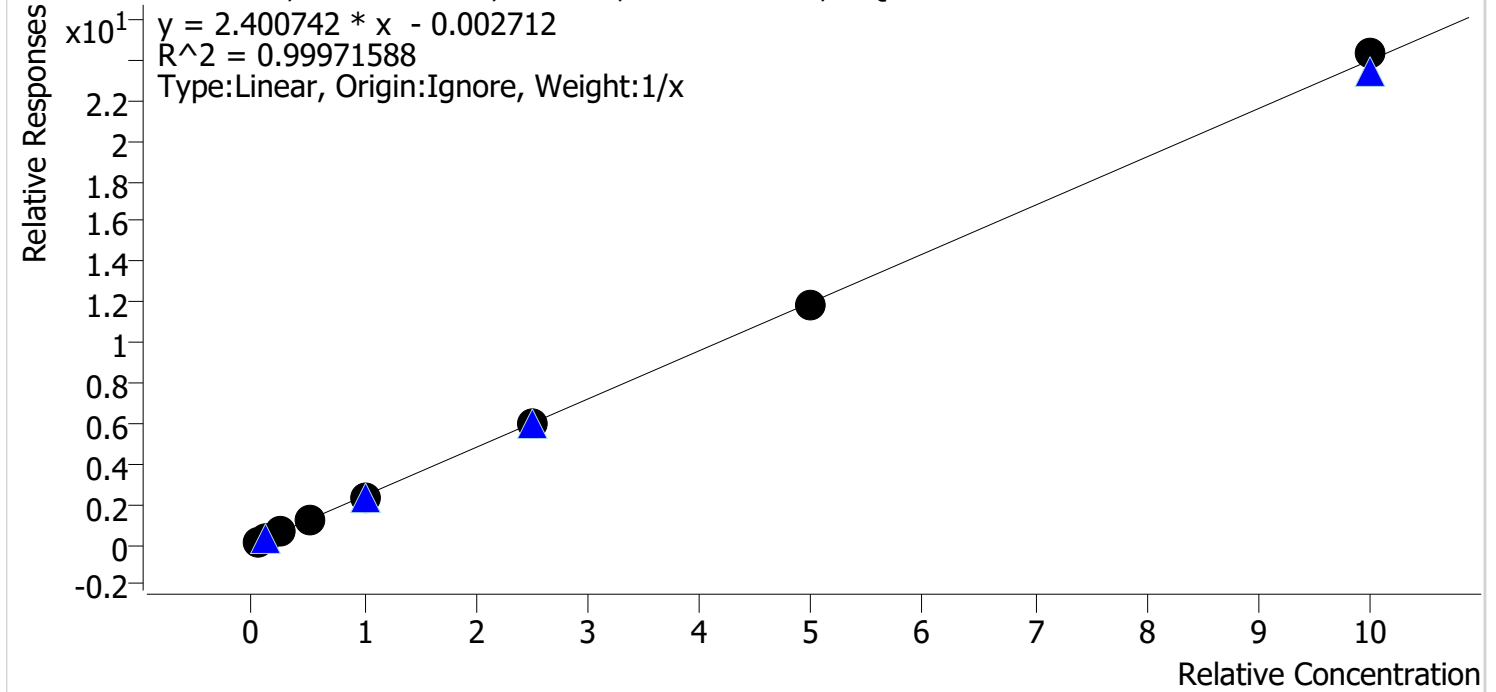


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 0.5                    | 0.5                 | 104.4    |
| cal 2  | 2     | ✓       | 1.0                    | 0.9                 | 94.8     |
| cal 3  | 3     | ✓       | 2.5                    | 2.3                 | 93.8     |
| cal 4  | 4     | ✓       | 5.0                    | 4.8                 | 96.5     |
| cal 5  | 5     | ✓       | 10.0                   | 9.5                 | 95.1     |
| cal 6  | 6     | ✓       | 25.0                   | 24.8                | 99.1     |
| cal 7  | 7     | ✓       | 50.0                   | 51.8                | 103.7    |
| cal 8  | 8     | ✓       | 100.0                  | 112.7               | 112.7    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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

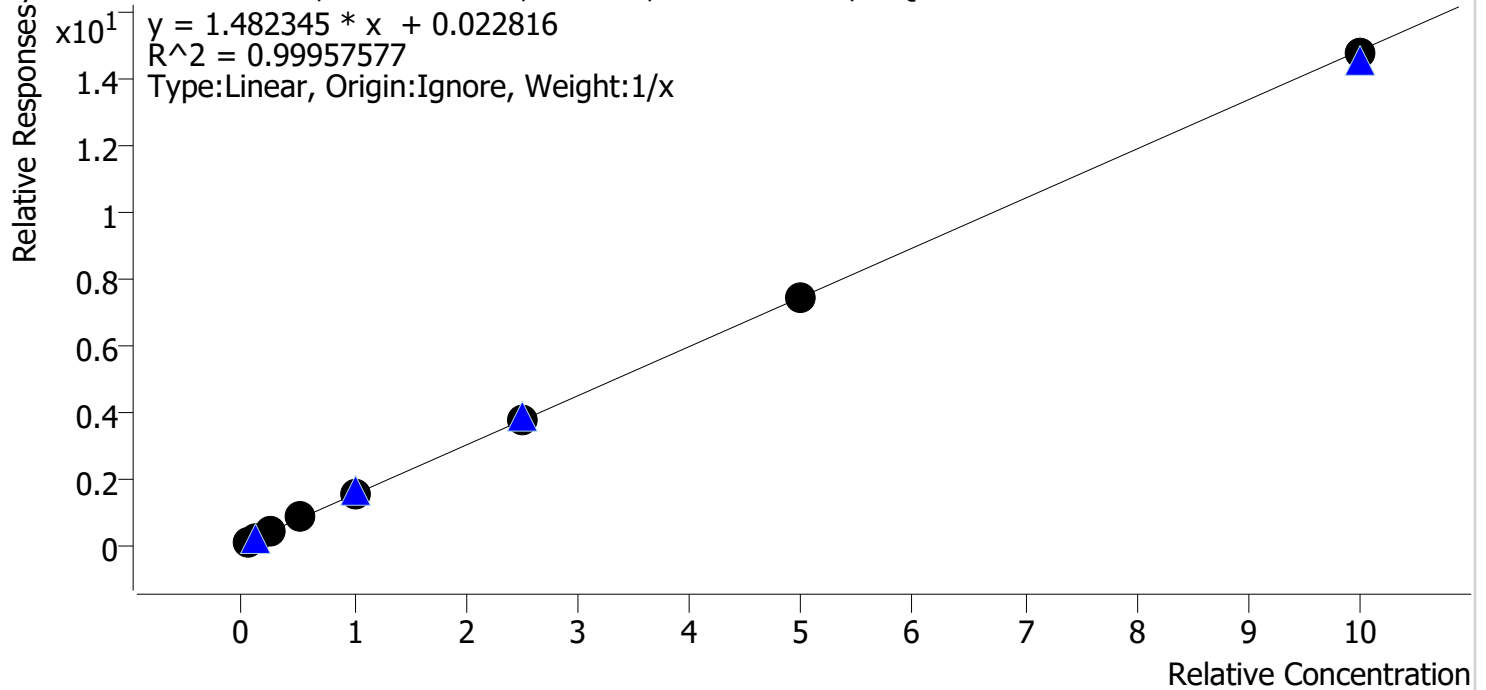


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.2                 | 104.9    |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 102.1    |
| cal 3  | 3     | ✓       | 25.0                   | 24.2                | 97.0     |
| cal 4  | 4     | ✓       | 50.0                   | 50.2                | 100.5    |
| cal 5  | 5     | ✓       | 100.0                  | 96.6                | 96.6     |
| cal 6  | 6     | ✓       | 250.0                  | 248.4               | 99.3     |
| cal 7  | 7     | ✓       | 500.0                  | 491.5               | 98.3     |
| cal 8  | 8     | ✓       | 1000.0                 | 1013.7              | 101.4    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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

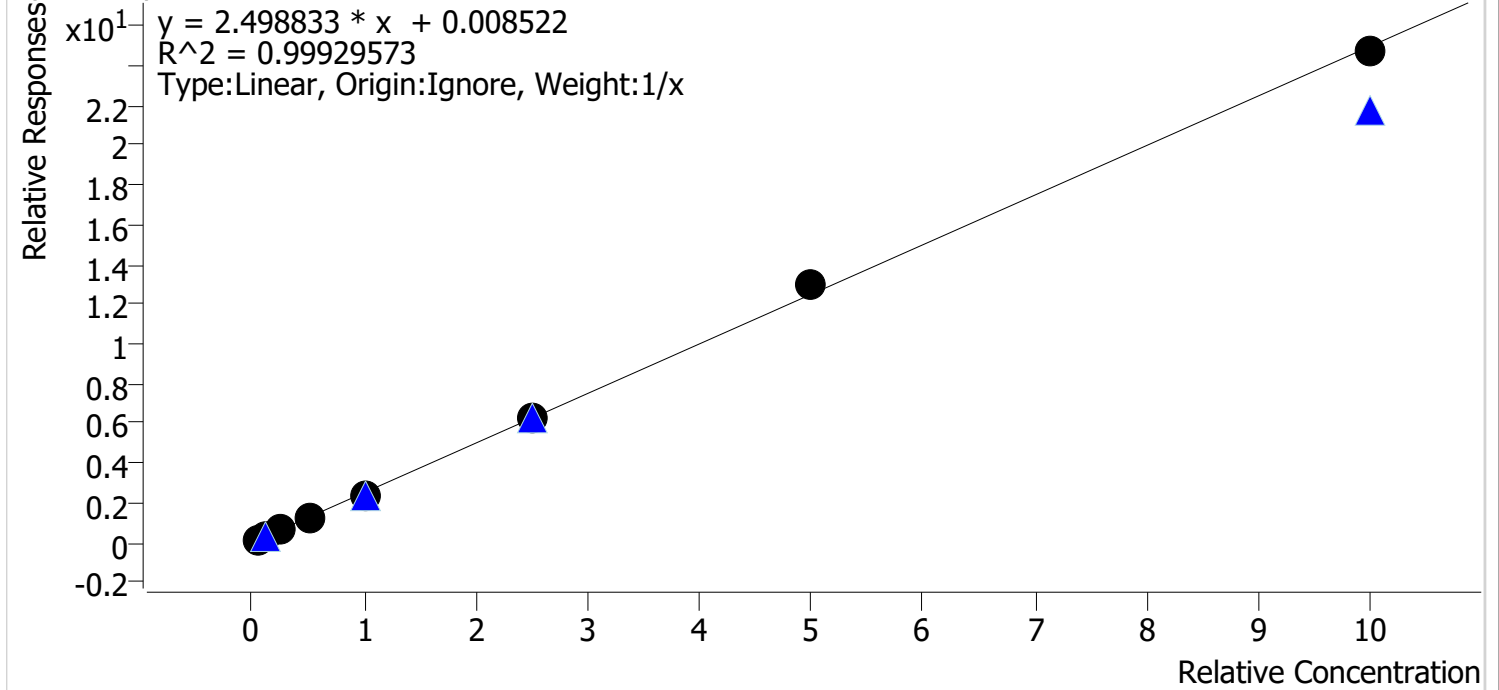


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.3                 | 85.6     |
| cal 2  | 2     | ✓       | 10.0                   | 9.8                 | 98.0     |
| cal 3  | 3     | ✓       | 25.0                   | 26.3                | 105.1    |
| cal 4  | 4     | ✓       | 50.0                   | 54.4                | 108.8    |
| cal 5  | 5     | ✓       | 100.0                  | 103.8               | 103.8    |
| cal 6  | 6     | ✓       | 250.0                  | 248.8               | 99.5     |
| cal 7  | 7     | ✓       | 500.0                  | 499.1               | 99.8     |
| cal 8  | 8     | ✓       | 1000.0                 | 993.5               | 99.4     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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

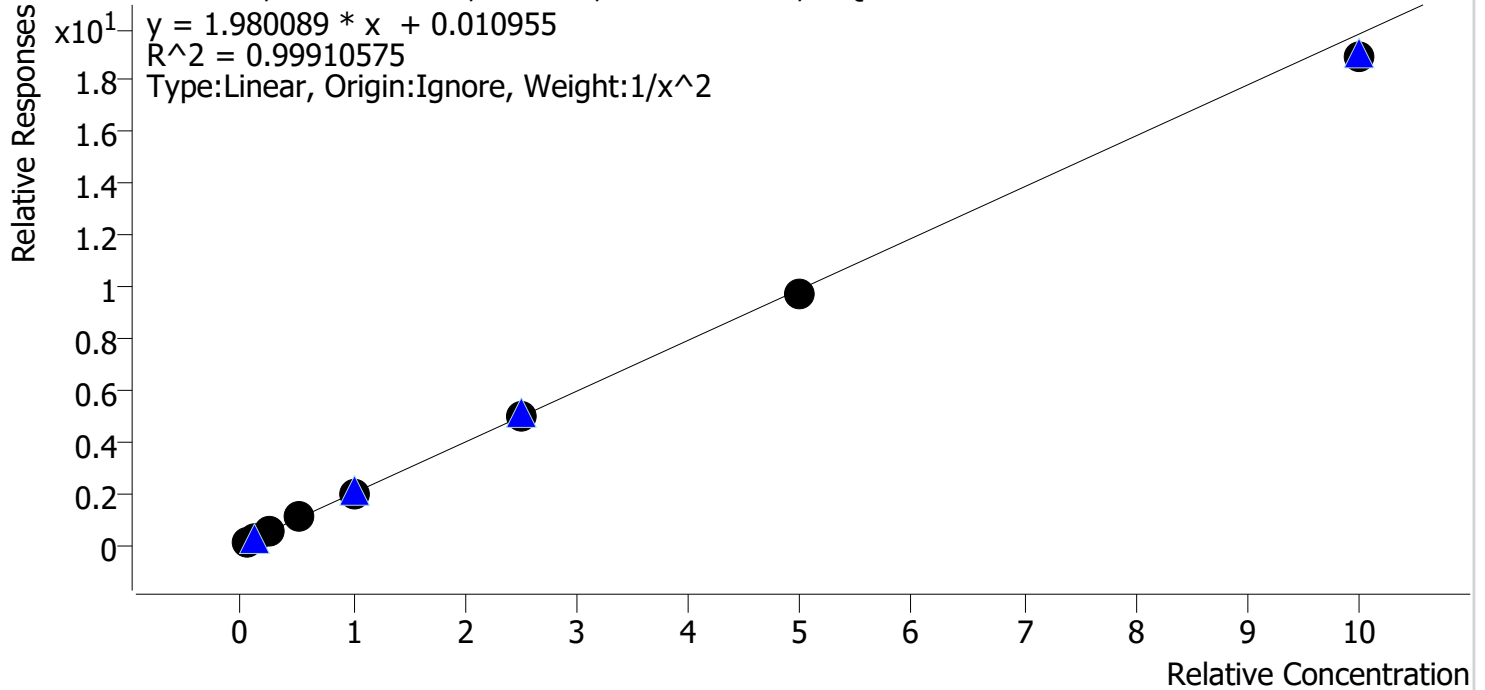


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.1                 | 101.3    |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 101.9    |
| cal 3  | 3     | ✓       | 25.0                   | 25.1                | 100.6    |
| cal 4  | 4     | ✓       | 50.0                   | 50.5                | 100.9    |
| cal 5  | 5     | ✓       | 100.0                  | 93.7                | 93.7     |
| cal 6  | 6     | ✓       | 250.0                  | 247.3               | 98.9     |
| cal 7  | 7     | ✓       | 500.0                  | 518.7               | 103.7    |
| cal 8  | 8     | ✓       | 1000.0                 | 989.4               | 98.9     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



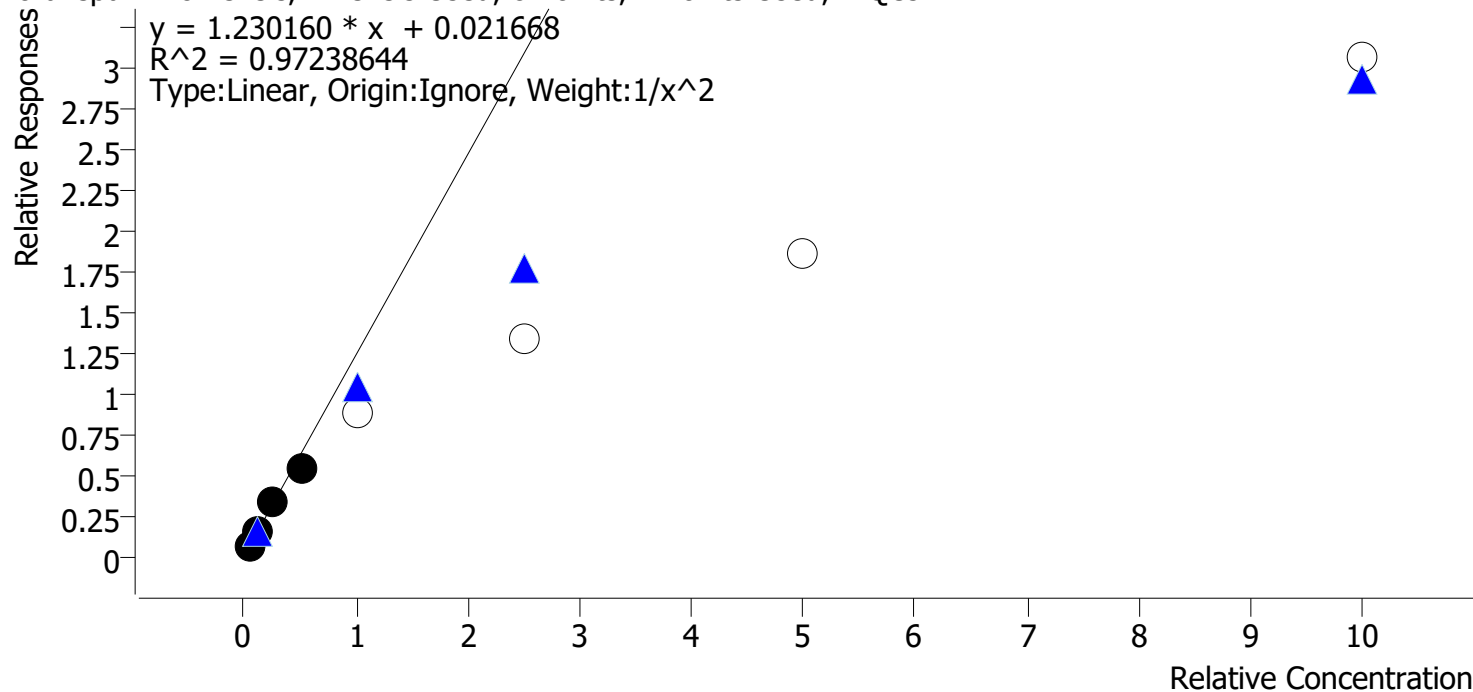
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 99.3     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 99.6     |
| cal 3  | 3     | ✓       | 25.0                   | 25.7                | 102.7    |
| cal 4  | 4     | ✓       | 50.0                   | 51.8                | 103.6    |
| cal 5  | 5     | ✓       | 100.0                  | 100.2               | 100.2    |
| cal 6  | 6     | ✓       | 250.0                  | 252.8               | 101.1    |
| cal 7  | 7     | ✓       | 500.0                  | 491.2               | 98.2     |
| cal 8  | 8     | ✓       | 1000.0                 | 952.8               | 95.3     |

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Diazepam-D5

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

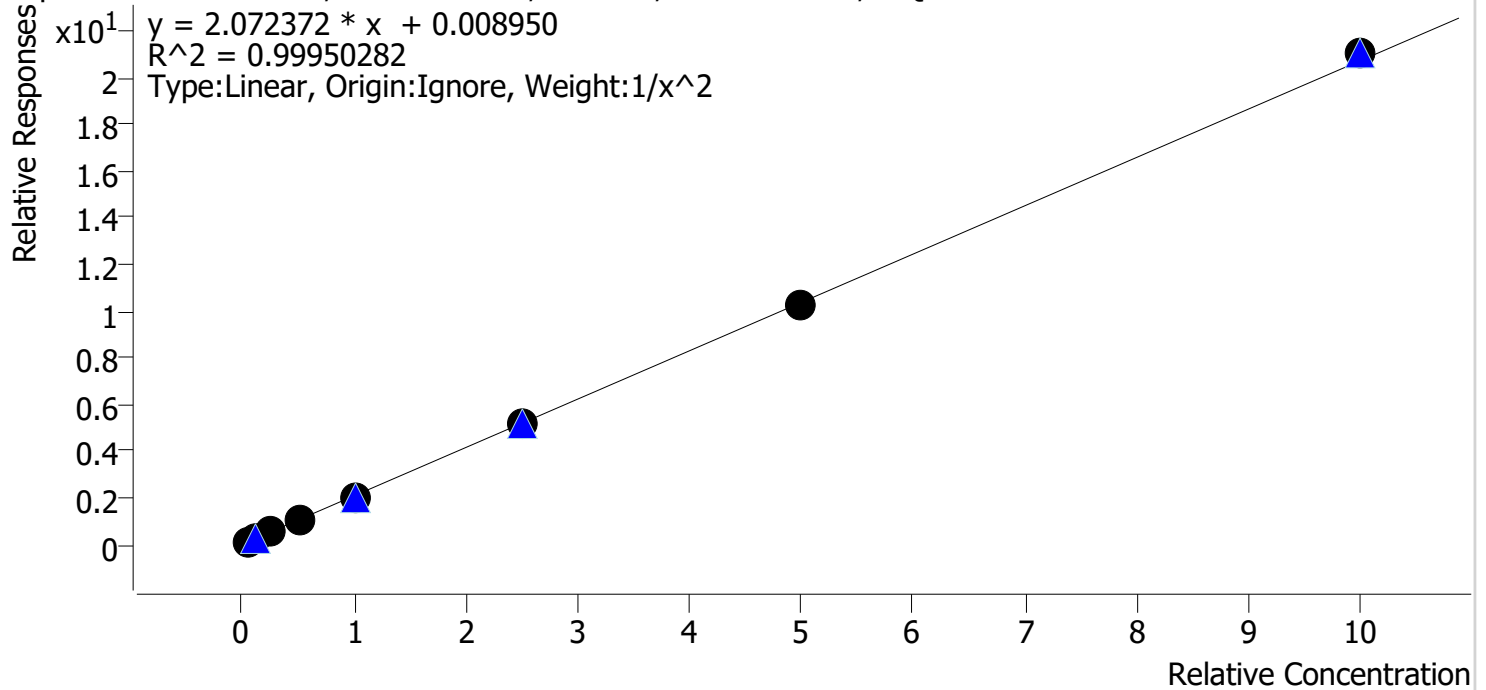


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.7                 | 93.0     |
| cal 2  | 2     | ✓       | 10.0                   | 11.5                | 114.6    |
| cal 3  | 3     | ✓       | 25.0                   | 26.1                | 104.5    |
| cal 4  | 4     | ✓       | 50.0                   | 43.9                | 87.9     |
| cal 5  | 5     | ✗       | 100.0                  | 70.1                | 70.1     |
| cal 6  | 6     | ✗       | 250.0                  | 108.4               | 43.3     |
| cal 7  | 7     | ✗       | 500.0                  | 150.6               | 30.1     |
| cal 8  | 8     | ✗       | 1000.0                 | 248.0               | 24.8     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

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

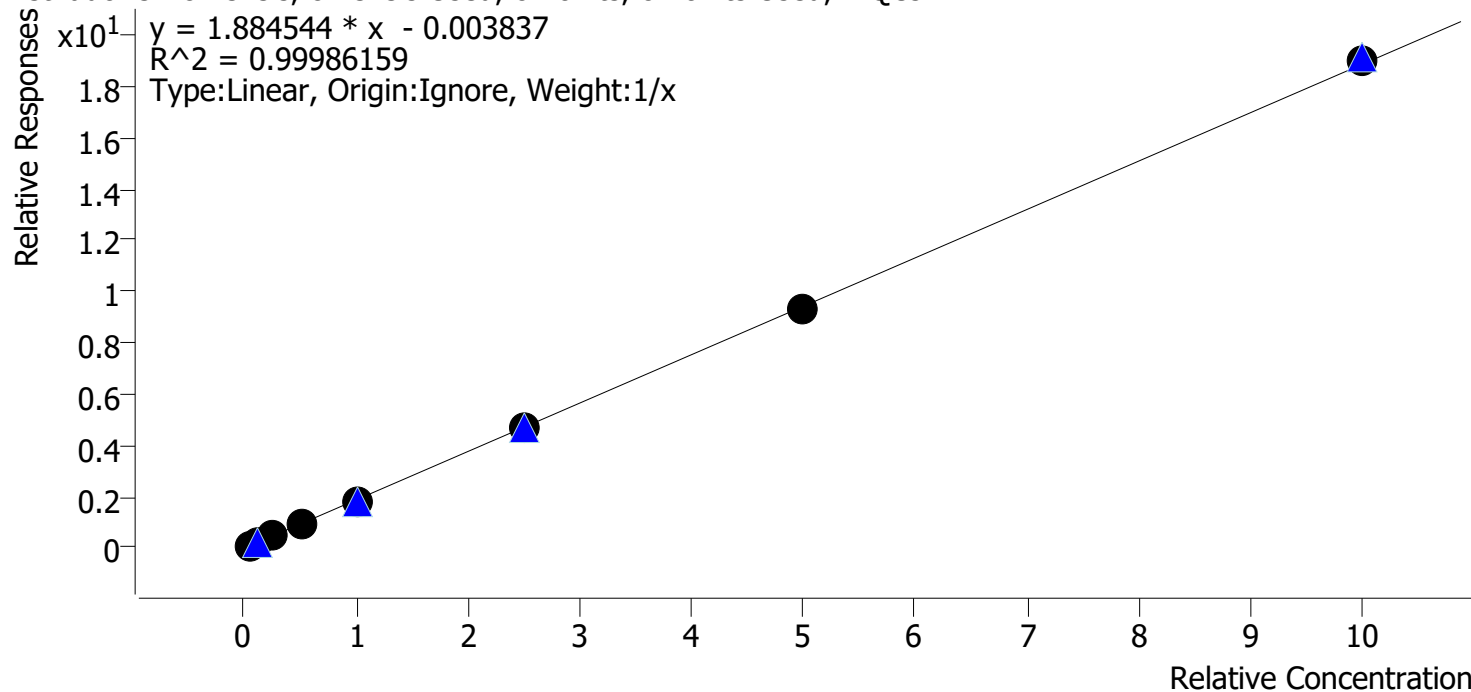


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.8     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.4    |
| cal 3  | 3     | ✓       | 25.0                   | 25.6                | 102.5    |
| cal 4  | 4     | ✓       | 50.0                   | 50.8                | 101.7    |
| cal 5  | 5     | ✓       | 100.0                  | 97.7                | 97.7     |
| cal 6  | 6     | ✓       | 250.0                  | 245.4               | 98.2     |
| cal 7  | 7     | ✓       | 500.0                  | 491.5               | 98.3     |
| cal 8  | 8     | ✓       | 1000.0                 | 1014.7              | 101.5    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



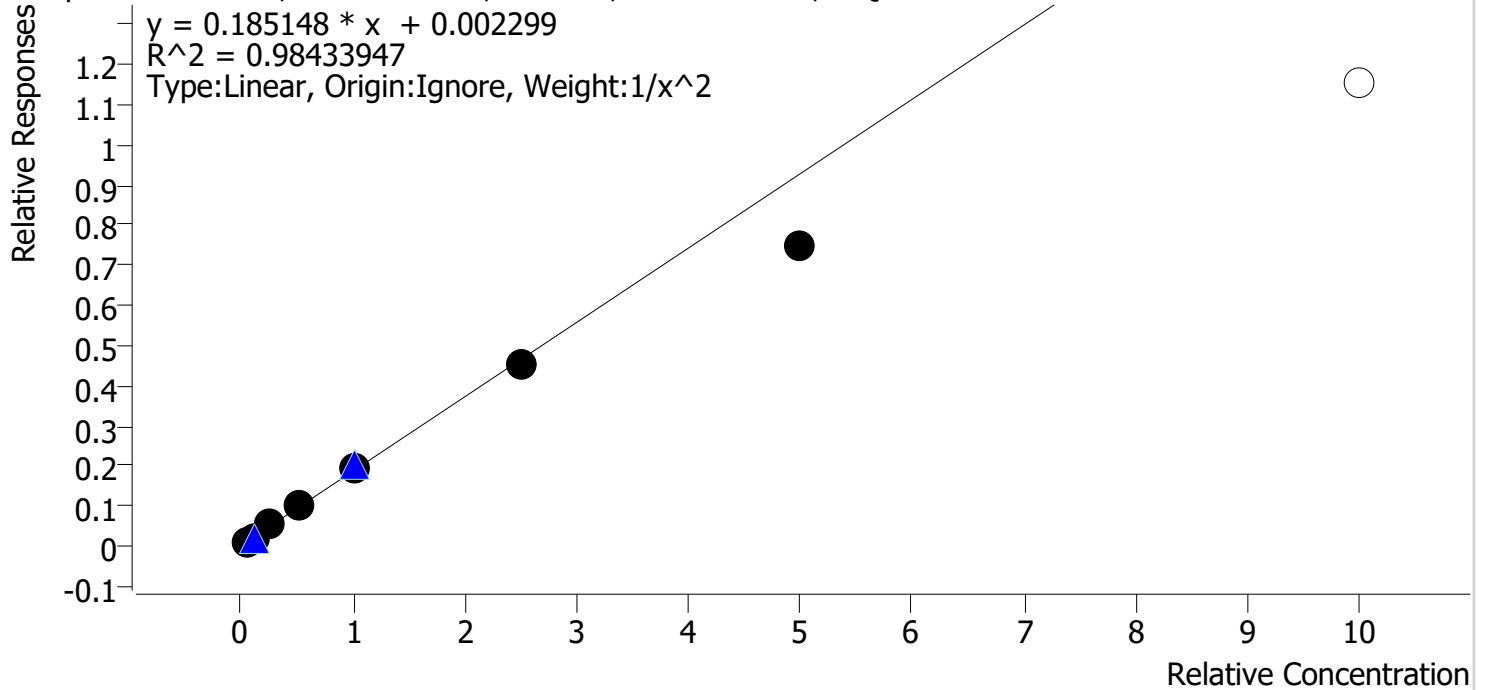
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.3                 | 105.1    |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 100.8    |
| cal 3  | 3     | ✓       | 25.0                   | 24.6                | 98.5     |
| cal 4  | 4     | ✓       | 50.0                   | 49.4                | 98.8     |
| cal 5  | 5     | ✓       | 100.0                  | 97.7                | 97.7     |
| cal 6  | 6     | ✓       | 250.0                  | 247.2               | 98.9     |
| cal 7  | 7     | ✓       | 500.0                  | 495.7               | 99.1     |
| cal 8  | 8     | ✓       | 1000.0                 | 1010.0              | 101.0    |



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Doxylamine-D5

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

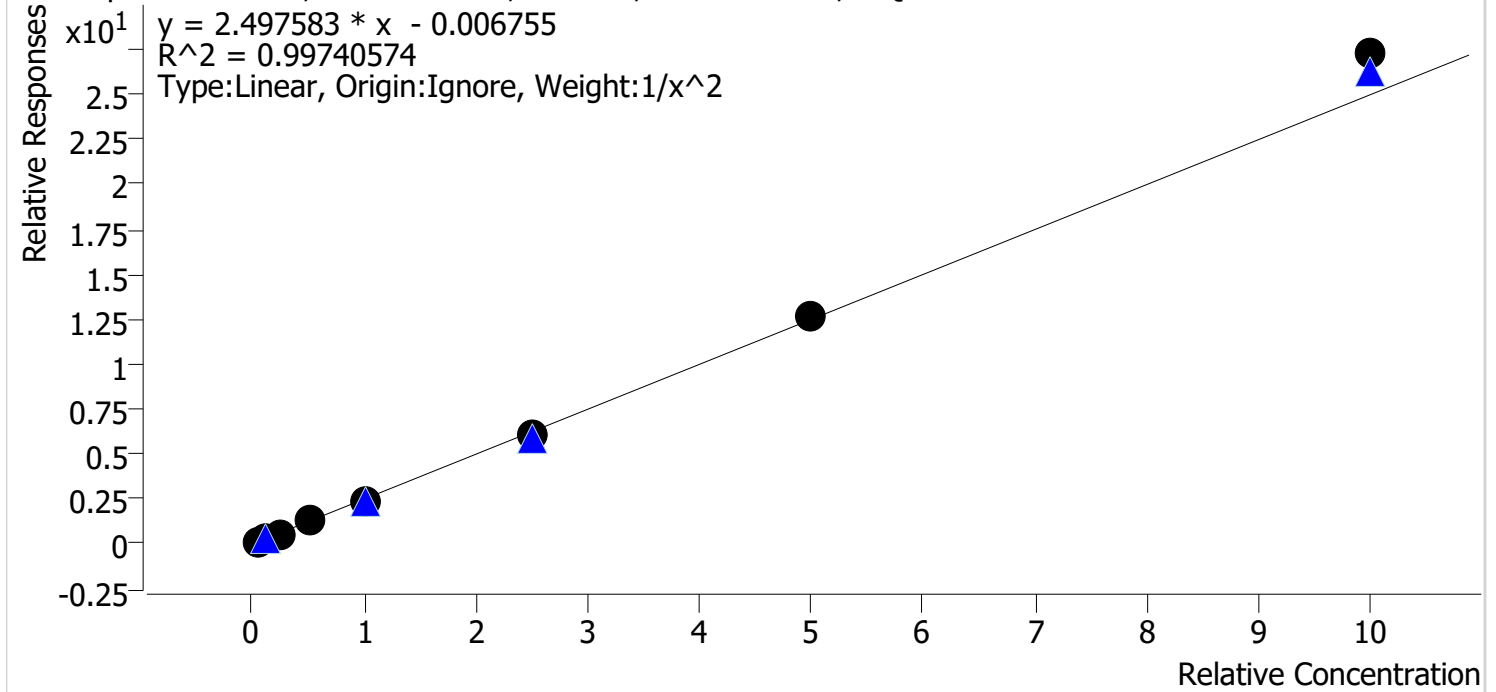


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.8                 | 96.6     |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 100.4    |
| cal 3  | 3     | ✓       | 25.0                   | 27.6                | 110.4    |
| cal 4  | 4     | ✓       | 50.0                   | 56.2                | 112.4    |
| cal 5  | 5     | ✓       | 100.0                  | 103.0               | 103.0    |
| cal 6  | 6     | ✓       | 250.0                  | 242.5               | 97.0     |
| cal 7  | 7     | ✓       | 500.0                  | 401.2               | 80.2     |
| cal 8  | 8     | ✗       | 1000.0                 | 623.3               | 62.3     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** Methadone-D9

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

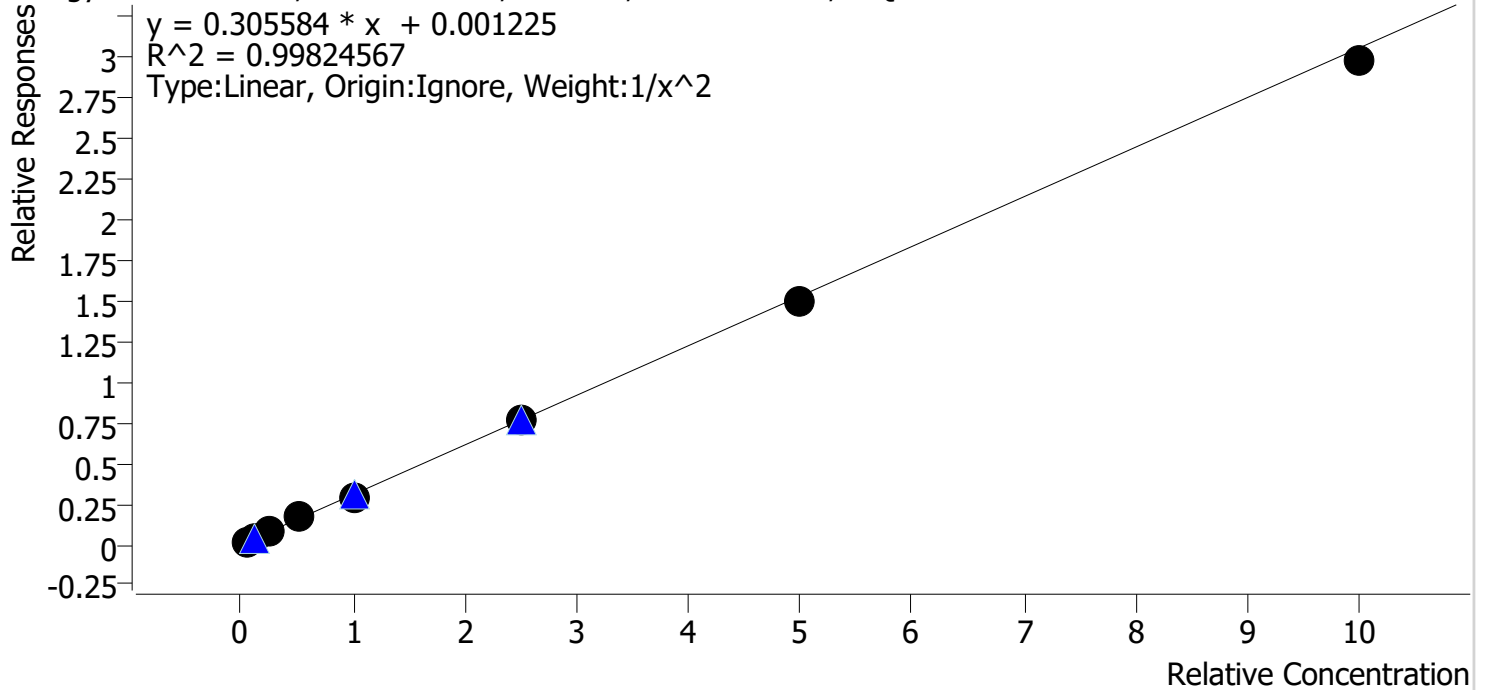


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.1                 | 102.9    |
| cal 2  | 2     | ✓       | 10.0                   | 9.6                 | 96.0     |
| cal 3  | 3     | ✓       | 25.0                   | 24.2                | 96.9     |
| cal 4  | 4     | ✓       | 50.0                   | 49.5                | 98.9     |
| cal 5  | 5     | ✓       | 100.0                  | 96.1                | 96.1     |
| cal 6  | 6     | ✓       | 250.0                  | 246.8               | 98.7     |
| cal 7  | 7     | ✓       | 500.0                  | 506.3               | 101.3    |
| cal 8  | 8     | ✓       | 1000.0                 | 1091.6              | 109.2    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

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

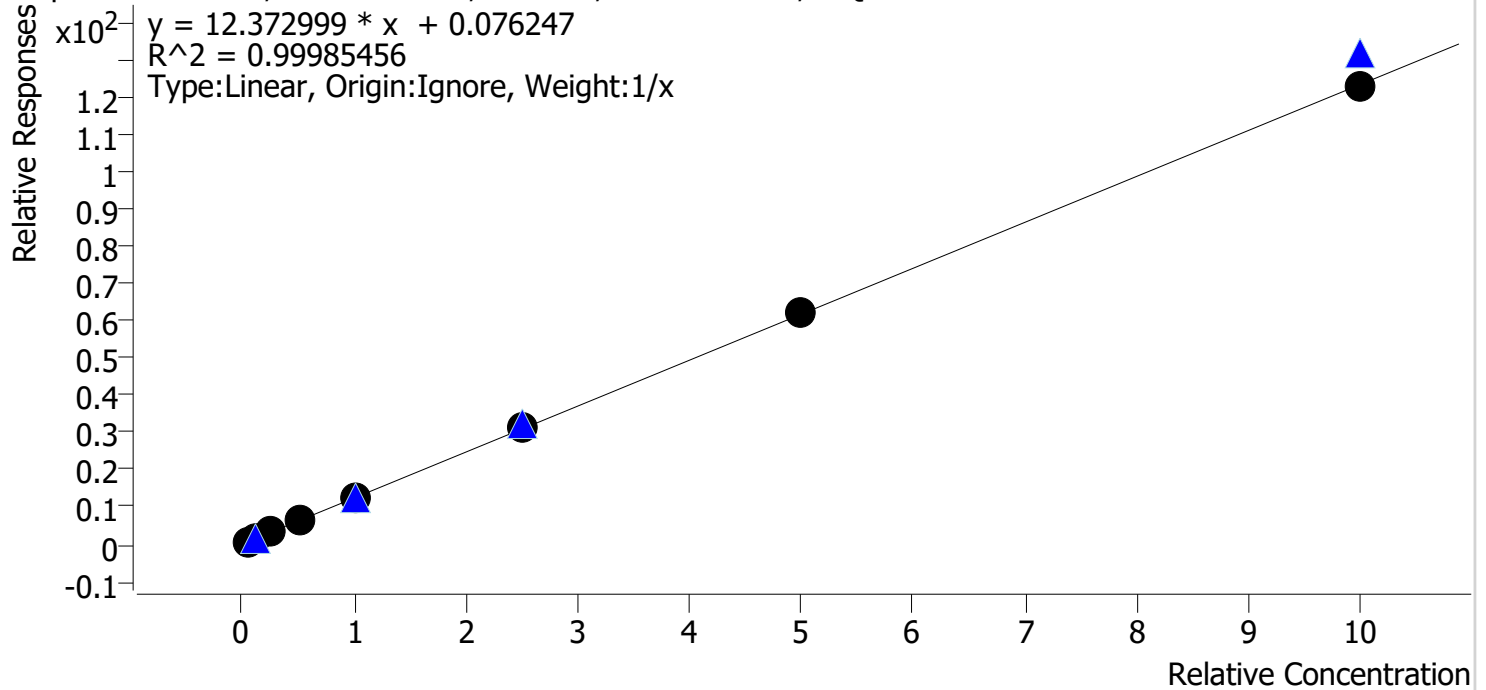


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 97.4     |
| cal 2  | 2     | ✓       | 10.0                   | 10.4                | 104.0    |
| cal 3  | 3     | ✓       | 25.0                   | 25.3                | 101.3    |
| cal 4  | 4     | ✓       | 50.0                   | 53.0                | 106.1    |
| cal 5  | 5     | ✓       | 100.0                  | 95.5                | 95.5     |
| cal 6  | 6     | ✓       | 250.0                  | 251.2               | 100.5    |
| cal 7  | 7     | ✓       | 500.0                  | 487.3               | 97.5     |
| cal 8  | 8     | ✓       | 1000.0                 | 978.6               | 97.9     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

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

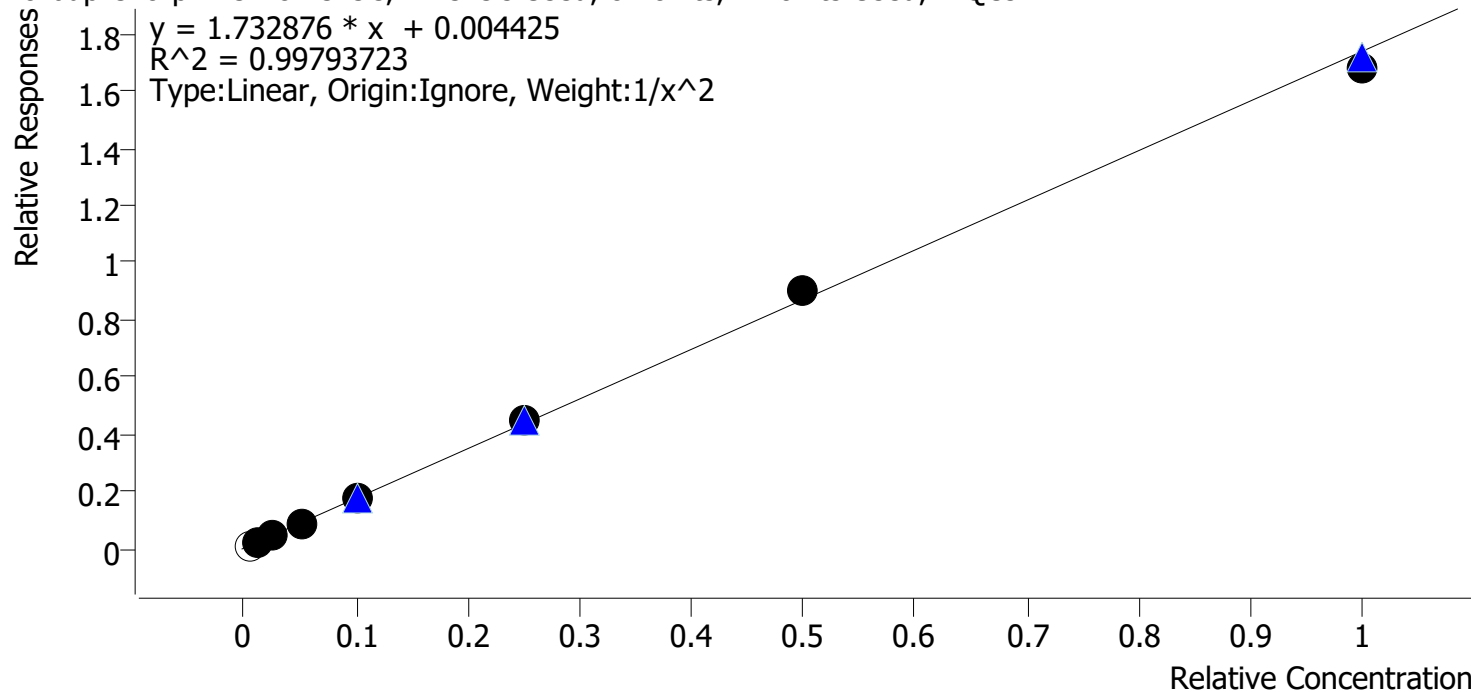


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.8                 | 95.9     |
| cal 2  | 2     | ✓       | 10.0                   | 9.8                 | 98.1     |
| cal 3  | 3     | ✓       | 25.0                   | 25.0                | 99.9     |
| cal 4  | 4     | ✓       | 50.0                   | 52.4                | 104.8    |
| cal 5  | 5     | ✓       | 100.0                  | 100.2               | 100.2    |
| cal 6  | 6     | ✓       | 250.0                  | 254.5               | 101.8    |
| cal 7  | 7     | ✓       | 500.0                  | 500.5               | 100.1    |
| cal 8  | 8     | ✓       | 1000.0                 | 992.9               | 99.3     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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

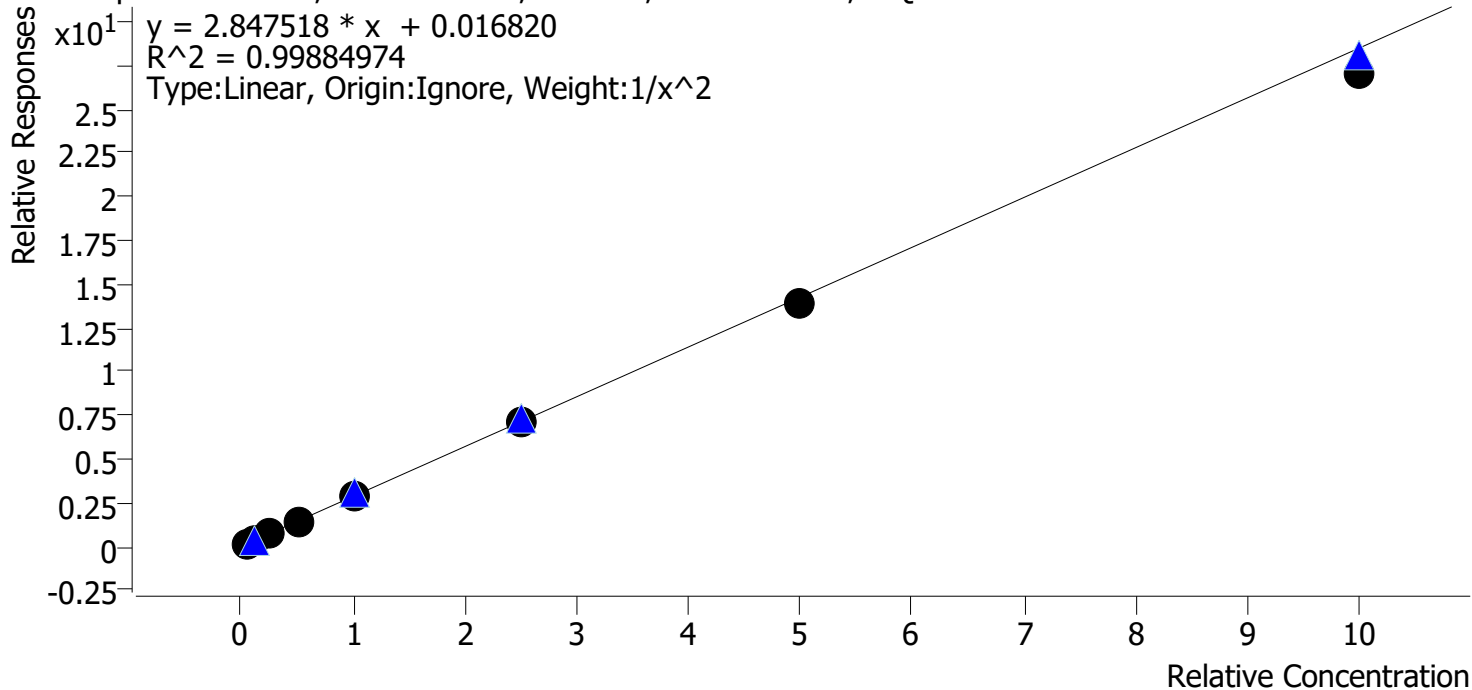


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | x       | 0.5                    | 0.4                 | 87.2     |
| cal 2  | 2     | ✓       | 1.0                    | 1.0                 | 102.3    |
| cal 3  | 3     | ✓       | 2.5                    | 2.3                 | 92.9     |
| cal 4  | 4     | ✓       | 5.0                    | 5.1                 | 101.9    |
| cal 5  | 5     | ✓       | 10.0                   | 10.0                | 100.4    |
| cal 6  | 6     | ✓       | 25.0                   | 25.5                | 102.1    |
| cal 7  | 7     | ✓       | 50.0                   | 51.9                | 103.9    |
| cal 8  | 8     | ✓       | 100.0                  | 96.6                | 96.6     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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

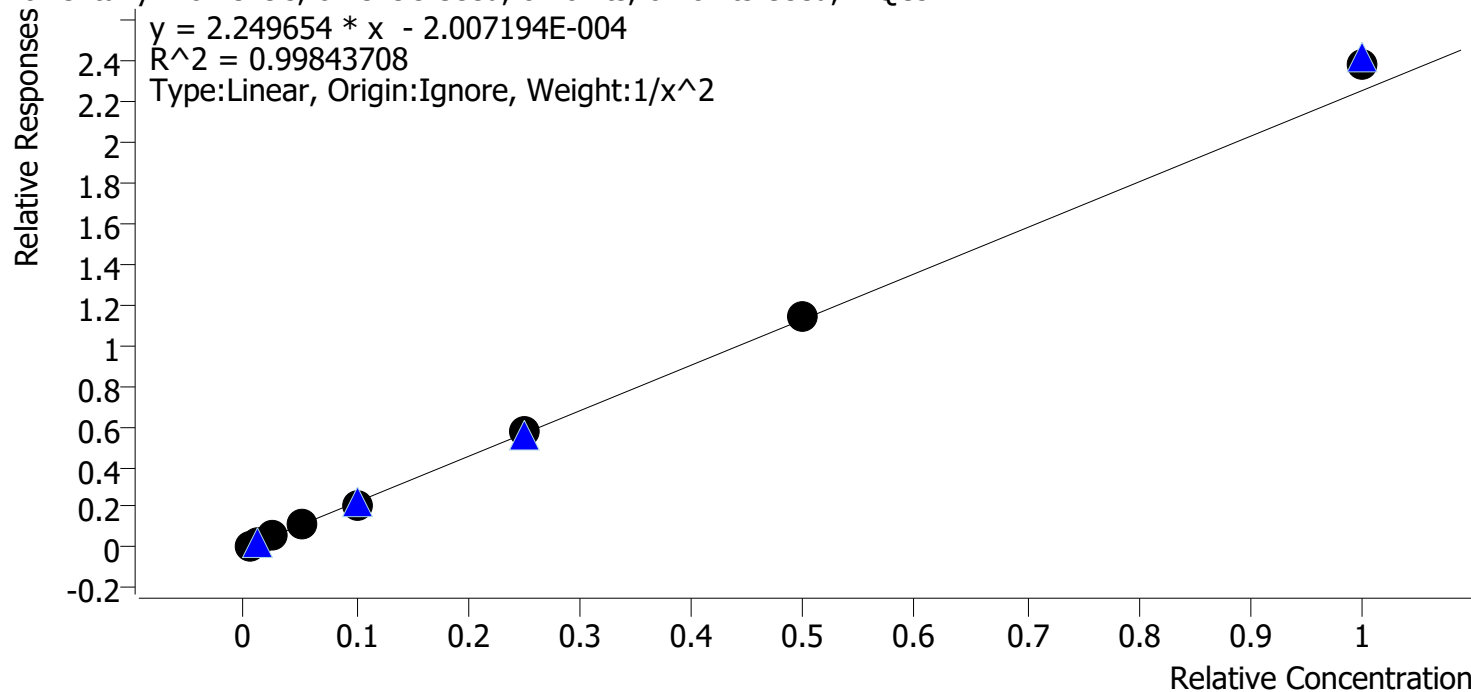


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.7     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 100.7    |
| cal 3  | 3     | ✓       | 25.0                   | 25.7                | 102.8    |
| cal 4  | 4     | ✓       | 50.0                   | 51.9                | 103.7    |
| cal 5  | 5     | ✓       | 100.0                  | 100.7               | 100.7    |
| cal 6  | 6     | ✓       | 250.0                  | 252.9               | 101.1    |
| cal 7  | 7     | ✓       | 500.0                  | 488.6               | 97.7     |
| cal 8  | 8     | ✓       | 1000.0                 | 945.4               | 94.5     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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

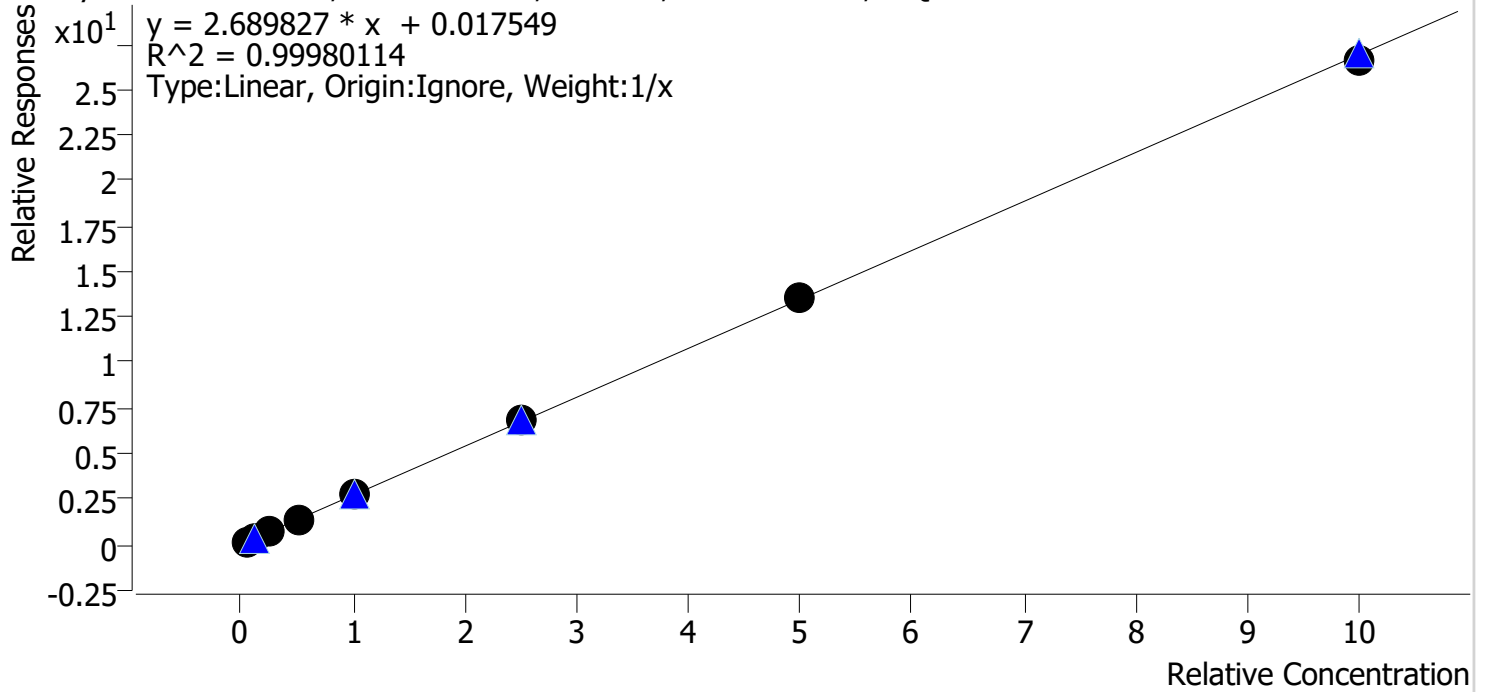


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 0.5                    | 0.5                 | 102.5    |
| cal 2  | 2     | ✓       | 1.0                    | 1.0                 | 96.7     |
| cal 3  | 3     | ✓       | 2.5                    | 2.4                 | 96.9     |
| cal 4  | 4     | ✓       | 5.0                    | 4.9                 | 98.3     |
| cal 5  | 5     | ✓       | 10.0                   | 9.7                 | 96.7     |
| cal 6  | 6     | ✓       | 25.0                   | 25.4                | 101.8    |
| cal 7  | 7     | ✓       | 50.0                   | 50.5                | 101.0    |
| cal 8  | 8     | ✓       | 100.0                  | 106.1               | 106.1    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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

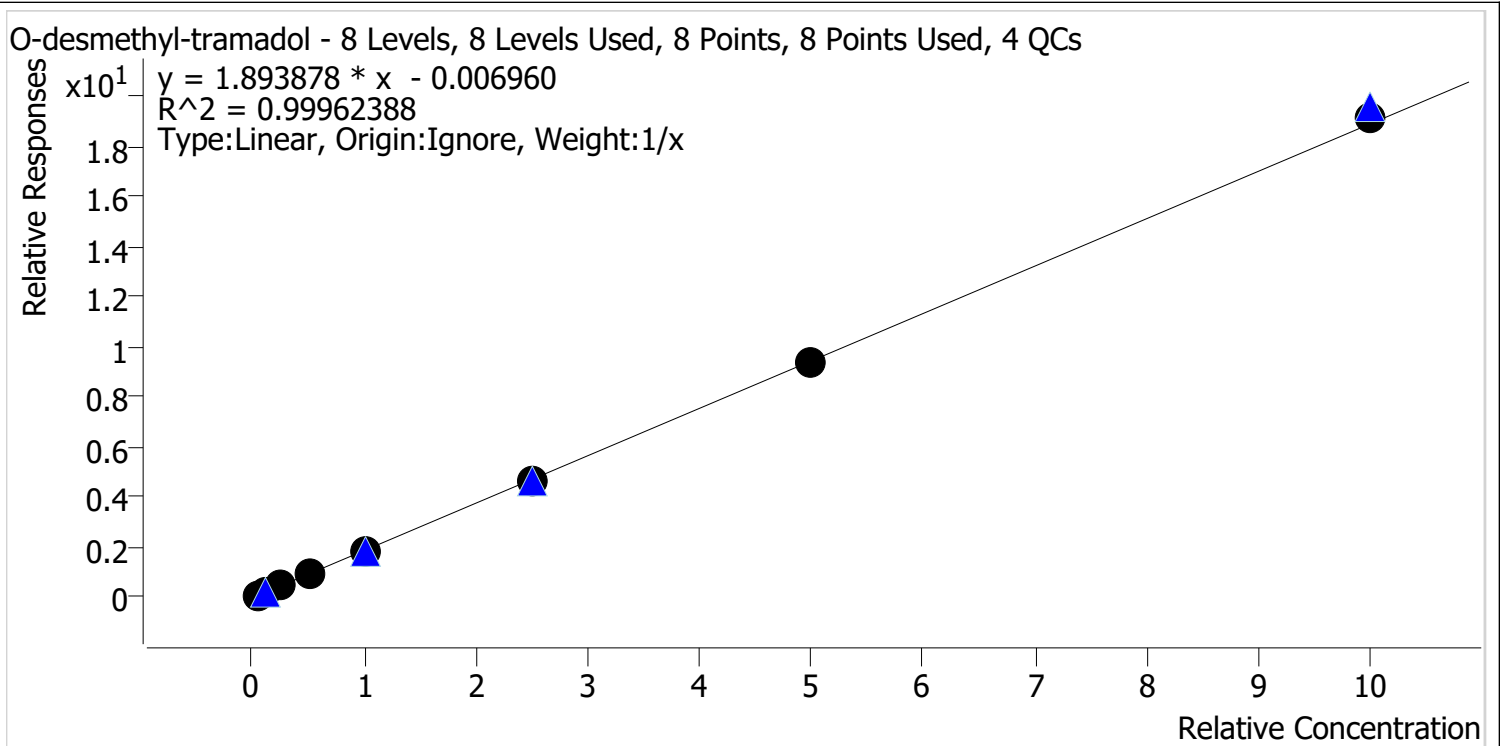


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.8                 | 96.1     |
| cal 2  | 2     | ✓       | 10.0                   | 9.8                 | 97.8     |
| cal 3  | 3     | ✓       | 25.0                   | 25.0                | 99.8     |
| cal 4  | 4     | ✓       | 50.0                   | 51.2                | 102.4    |
| cal 5  | 5     | ✓       | 100.0                  | 103.0               | 103.0    |
| cal 6  | 6     | ✓       | 250.0                  | 252.4               | 101.0    |
| cal 7  | 7     | ✓       | 500.0                  | 505.5               | 101.1    |
| cal 8  | 8     | ✓       | 1000.0                 | 988.3               | 98.8     |



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

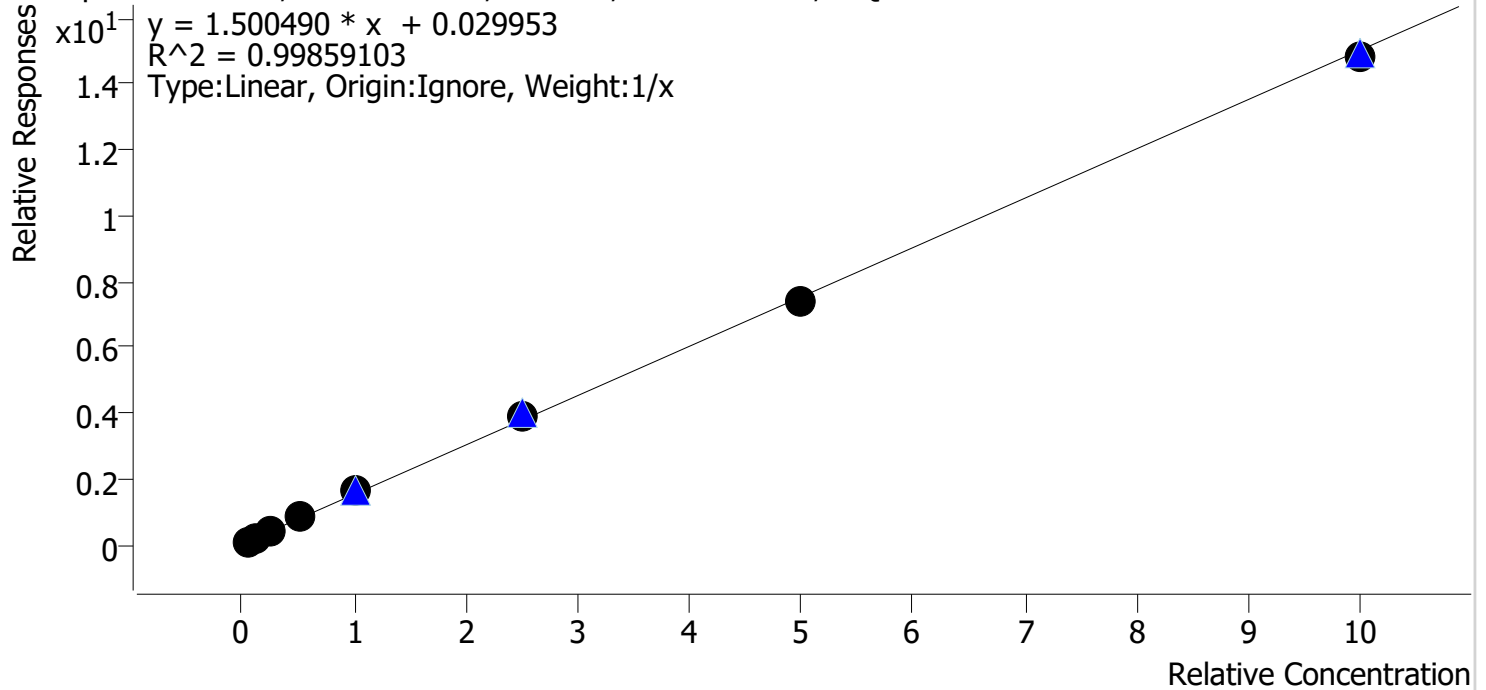


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.4                 | 108.7    |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 102.4    |
| cal 3  | 3     | ✓       | 25.0                   | 24.2                | 96.7     |
| cal 4  | 4     | ✓       | 50.0                   | 49.0                | 97.9     |
| cal 5  | 5     | ✓       | 100.0                  | 95.9                | 95.9     |
| cal 6  | 6     | ✓       | 250.0                  | 244.0               | 97.6     |
| cal 7  | 7     | ✓       | 500.0                  | 496.2               | 99.2     |
| cal 8  | 8     | ✓       | 1000.0                 | 1015.2              | 101.5    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

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

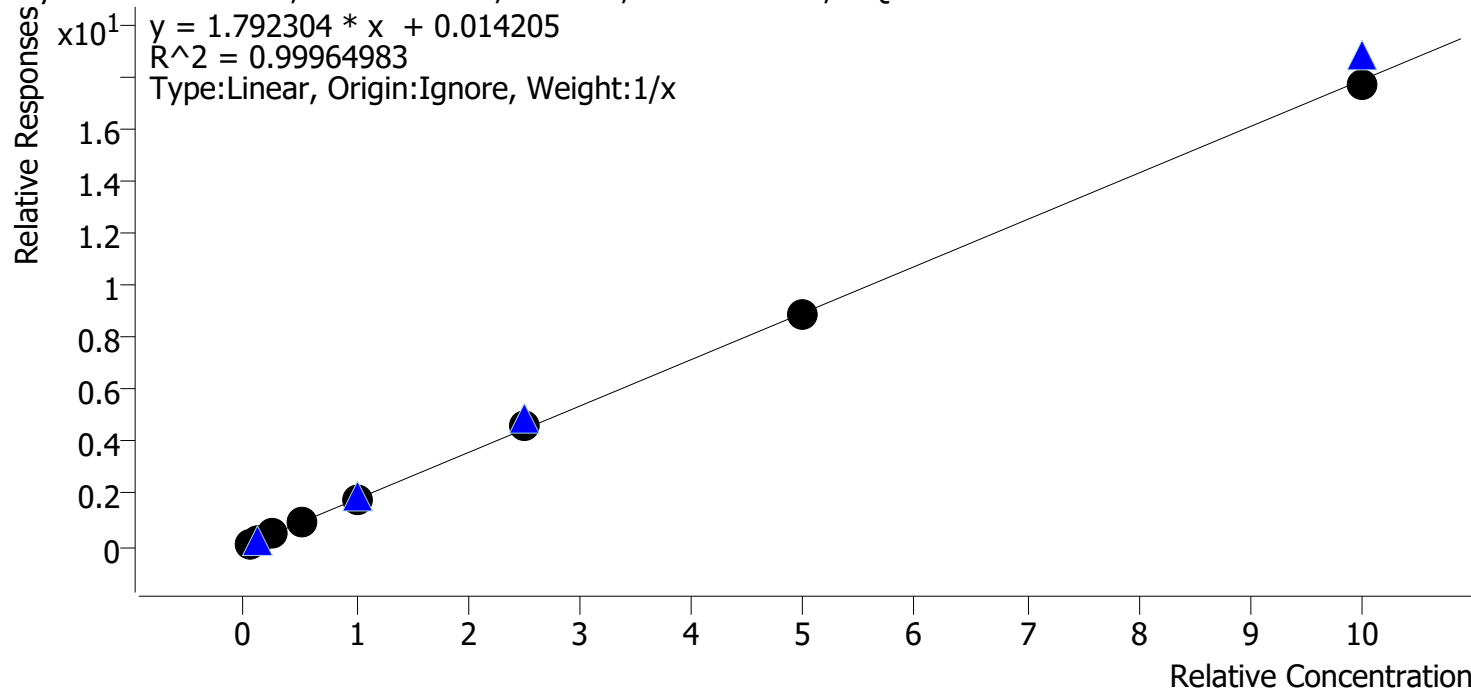


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 3.9                 | 78.2     |
| cal 2  | 2     | ✓       | 10.0                   | 9.6                 | 95.7     |
| cal 3  | 3     | ✓       | 25.0                   | 26.3                | 105.4    |
| cal 4  | 4     | ✓       | 50.0                   | 56.1                | 112.2    |
| cal 5  | 5     | ✓       | 100.0                  | 107.6               | 107.6    |
| cal 6  | 6     | ✓       | 250.0                  | 260.7               | 104.3    |
| cal 7  | 7     | ✓       | 500.0                  | 491.1               | 98.2     |
| cal 8  | 8     | ✓       | 1000.0                 | 984.7               | 98.5     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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

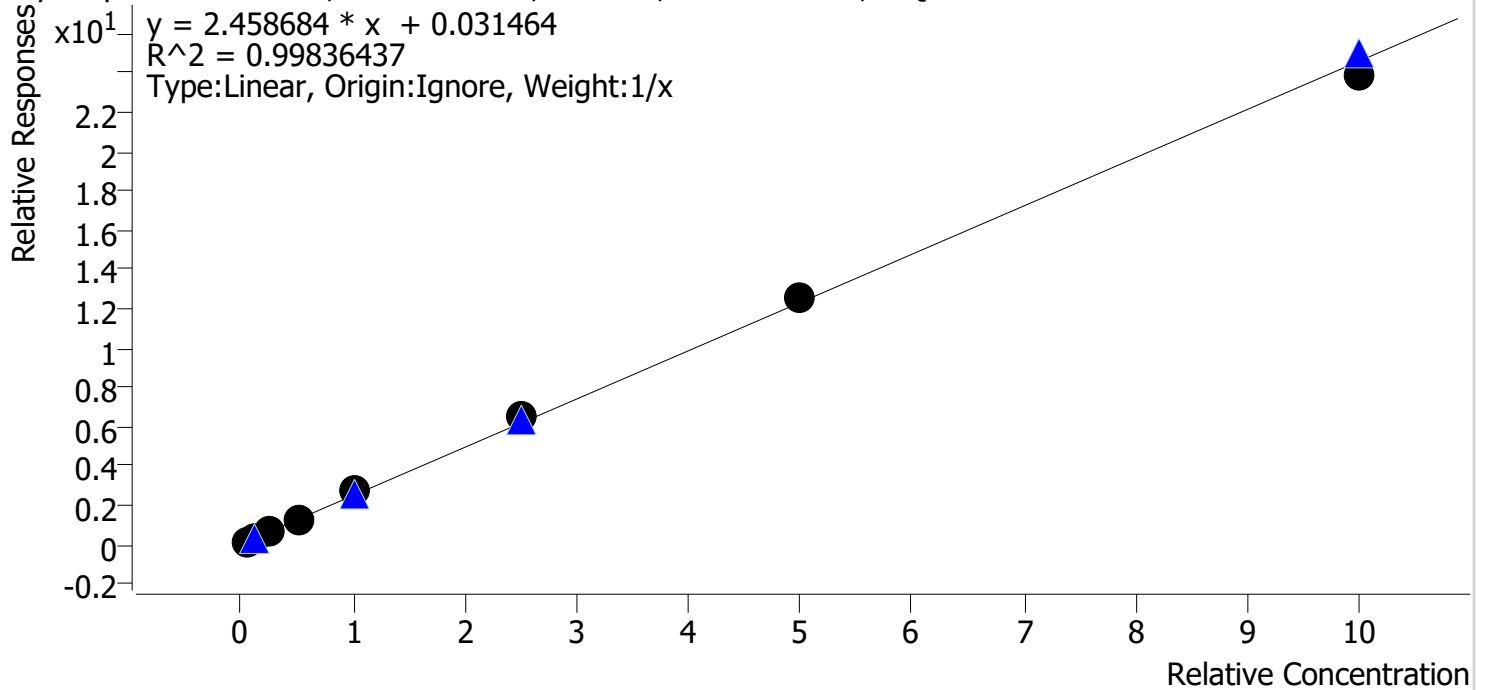


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.6                 | 92.4     |
| cal 2  | 2     | ✓       | 10.0                   | 9.8                 | 97.8     |
| cal 3  | 3     | ✓       | 25.0                   | 25.4                | 101.8    |
| cal 4  | 4     | ✓       | 50.0                   | 52.5                | 105.0    |
| cal 5  | 5     | ✓       | 100.0                  | 100.9               | 100.9    |
| cal 6  | 6     | ✓       | 250.0                  | 259.2               | 103.7    |
| cal 7  | 7     | ✓       | 500.0                  | 497.1               | 99.4     |
| cal 8  | 8     | ✓       | 1000.0                 | 990.4               | 99.0     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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

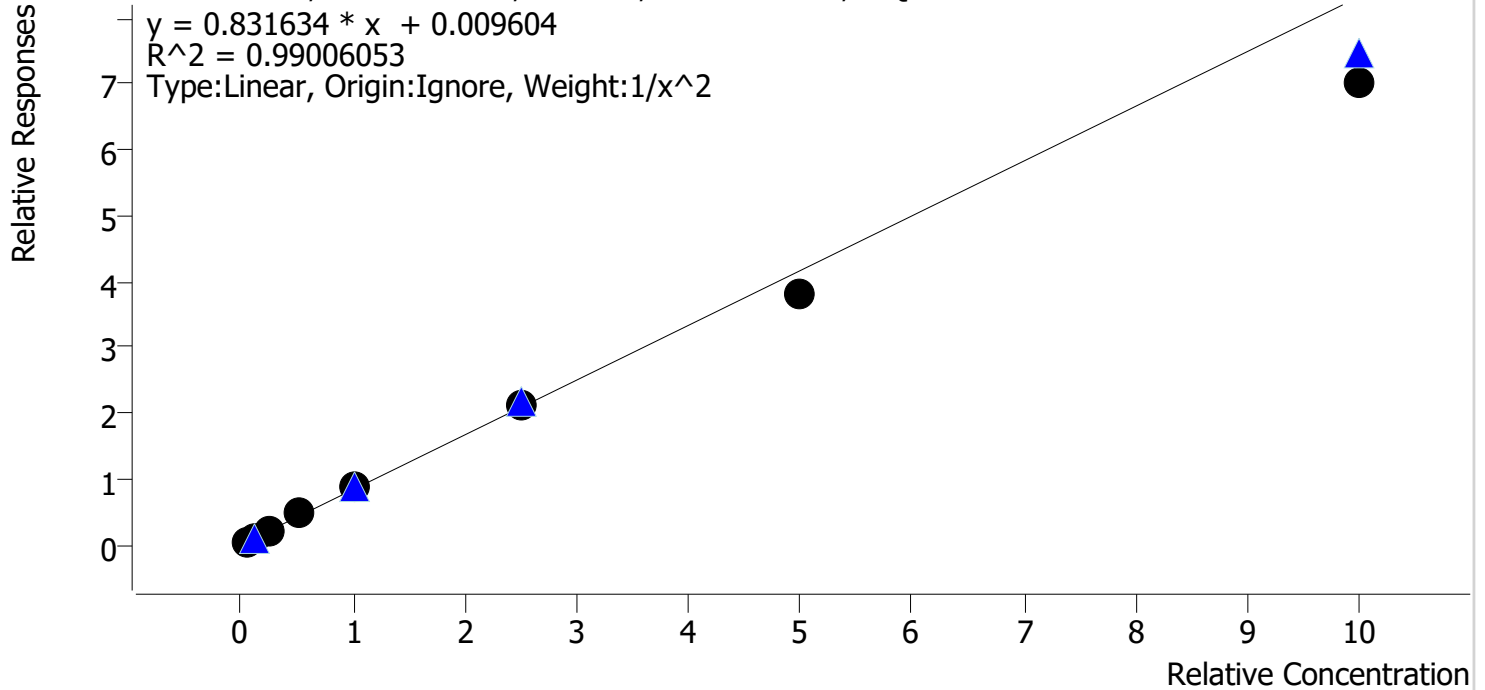


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.2                 | 84.9     |
| cal 2  | 2     | ✓       | 10.0                   | 9.3                 | 92.9     |
| cal 3  | 3     | ✓       | 25.0                   | 26.1                | 104.6    |
| cal 4  | 4     | ✓       | 50.0                   | 52.9                | 105.7    |
| cal 5  | 5     | ✓       | 100.0                  | 108.2               | 108.2    |
| cal 6  | 6     | ✓       | 250.0                  | 263.0               | 105.2    |
| cal 7  | 7     | ✓       | 500.0                  | 508.3               | 101.7    |
| cal 8  | 8     | ✓       | 1000.0                 | 967.9               | 96.8     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

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

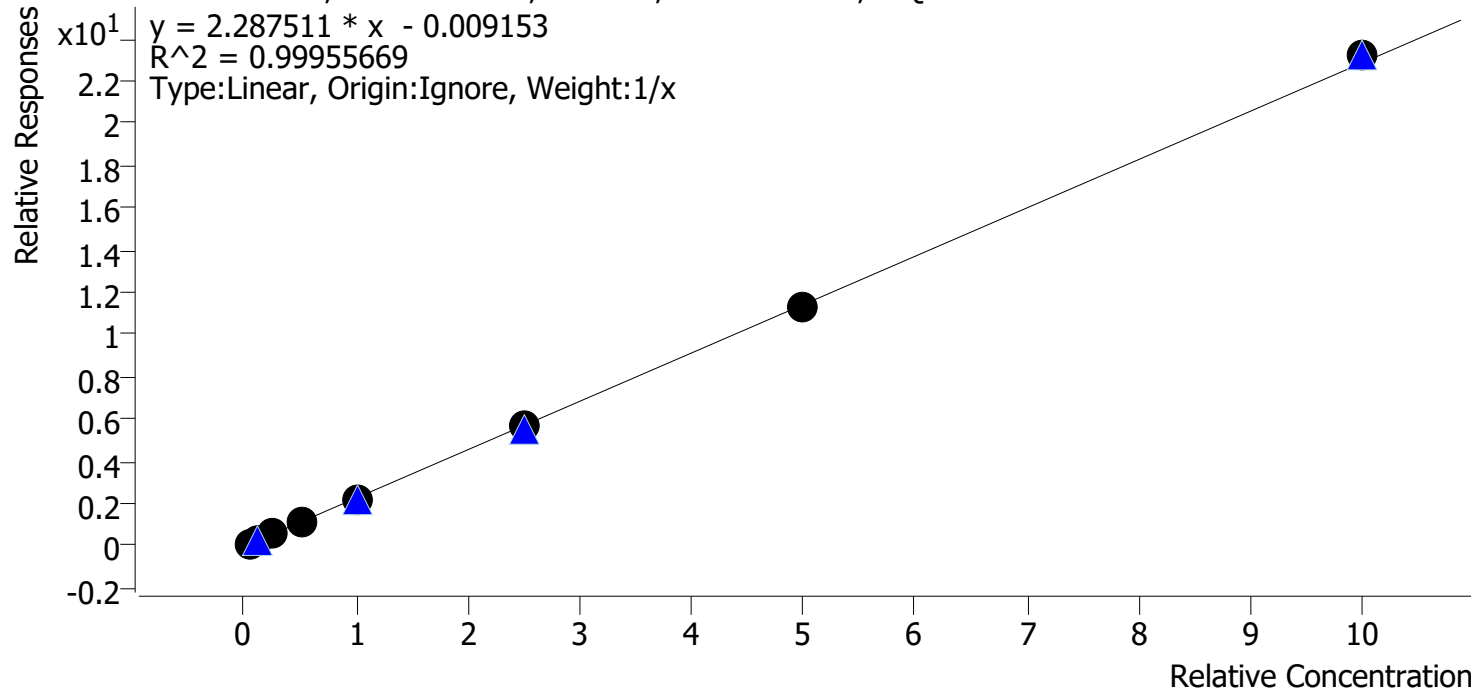


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.8                 | 95.5     |
| cal 2  | 2     | ✓       | 10.0                   | 10.4                | 103.6    |
| cal 3  | 3     | ✓       | 25.0                   | 26.9                | 107.6    |
| cal 4  | 4     | ✓       | 50.0                   | 55.2                | 110.3    |
| cal 5  | 5     | ✓       | 100.0                  | 105.3               | 105.3    |
| cal 6  | 6     | ✓       | 250.0                  | 252.7               | 101.1    |
| cal 7  | 7     | ✓       | 500.0                  | 459.4               | 91.9     |
| cal 8  | 8     | ✓       | 1000.0                 | 846.5               | 84.6     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

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

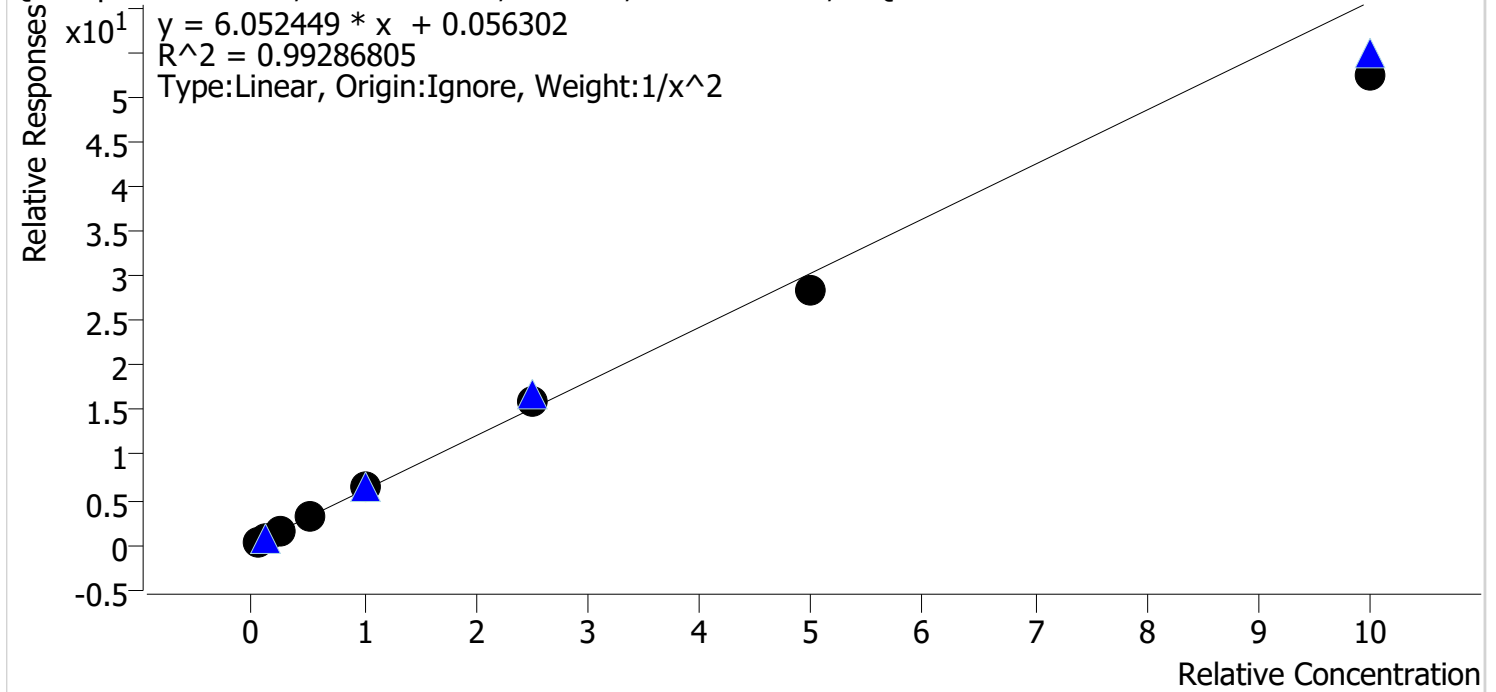


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.5                 | 109.7    |
| cal 2  | 2     | ✓       | 10.0                   | 10.2                | 102.0    |
| cal 3  | 3     | ✓       | 25.0                   | 24.5                | 97.9     |
| cal 4  | 4     | ✓       | 50.0                   | 48.6                | 97.2     |
| cal 5  | 5     | ✓       | 100.0                  | 93.9                | 93.9     |
| cal 6  | 6     | ✓       | 250.0                  | 246.7               | 98.7     |
| cal 7  | 7     | ✓       | 500.0                  | 495.6               | 99.1     |
| cal 8  | 8     | ✓       | 1000.0                 | 1015.1              | 101.5    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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

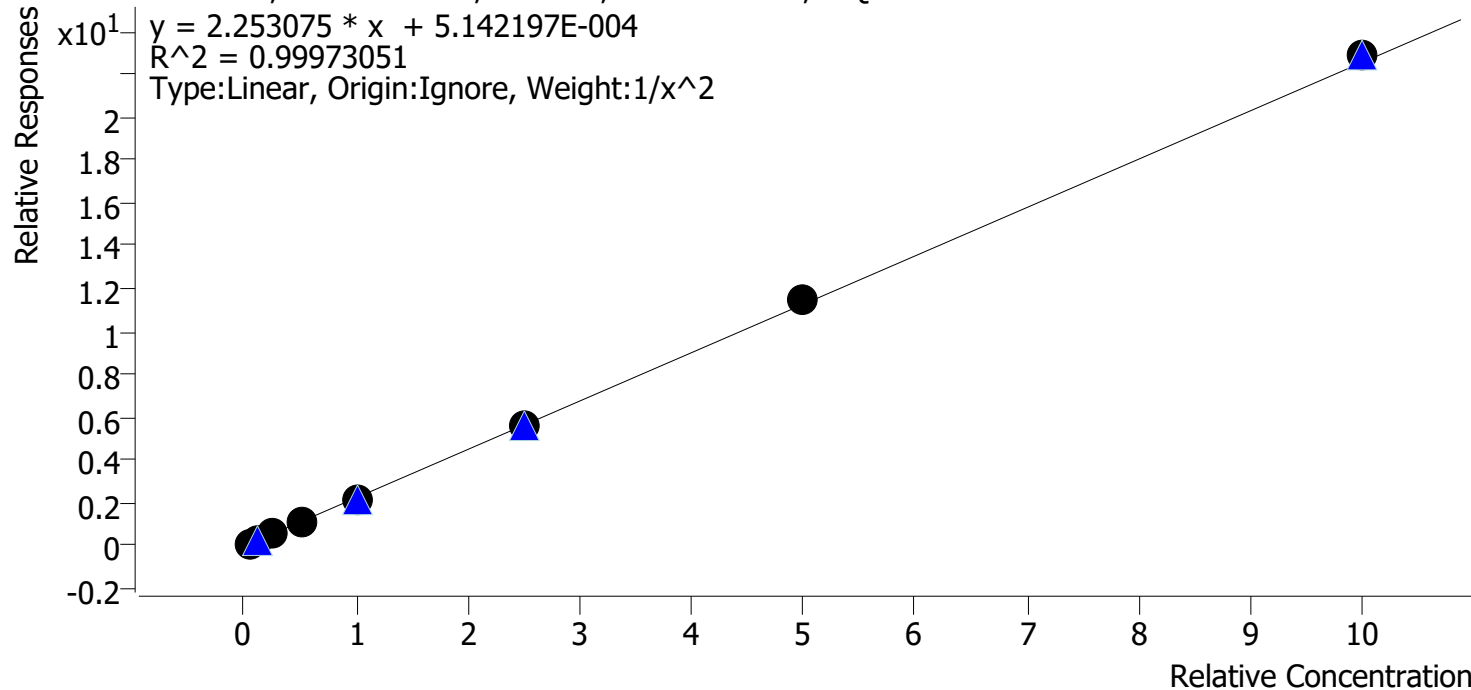


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.8                 | 96.6     |
| cal 2  | 2     | ✓       | 10.0                   | 10.3                | 103.0    |
| cal 3  | 3     | ✓       | 25.0                   | 26.3                | 105.1    |
| cal 4  | 4     | ✓       | 50.0                   | 54.1                | 108.2    |
| cal 5  | 5     | ✓       | 100.0                  | 103.3               | 103.3    |
| cal 6  | 6     | ✓       | 250.0                  | 261.0               | 104.4    |
| cal 7  | 7     | ✓       | 500.0                  | 466.3               | 93.3     |
| cal 8  | 8     | ✓       | 1000.0                 | 862.2               | 86.2     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



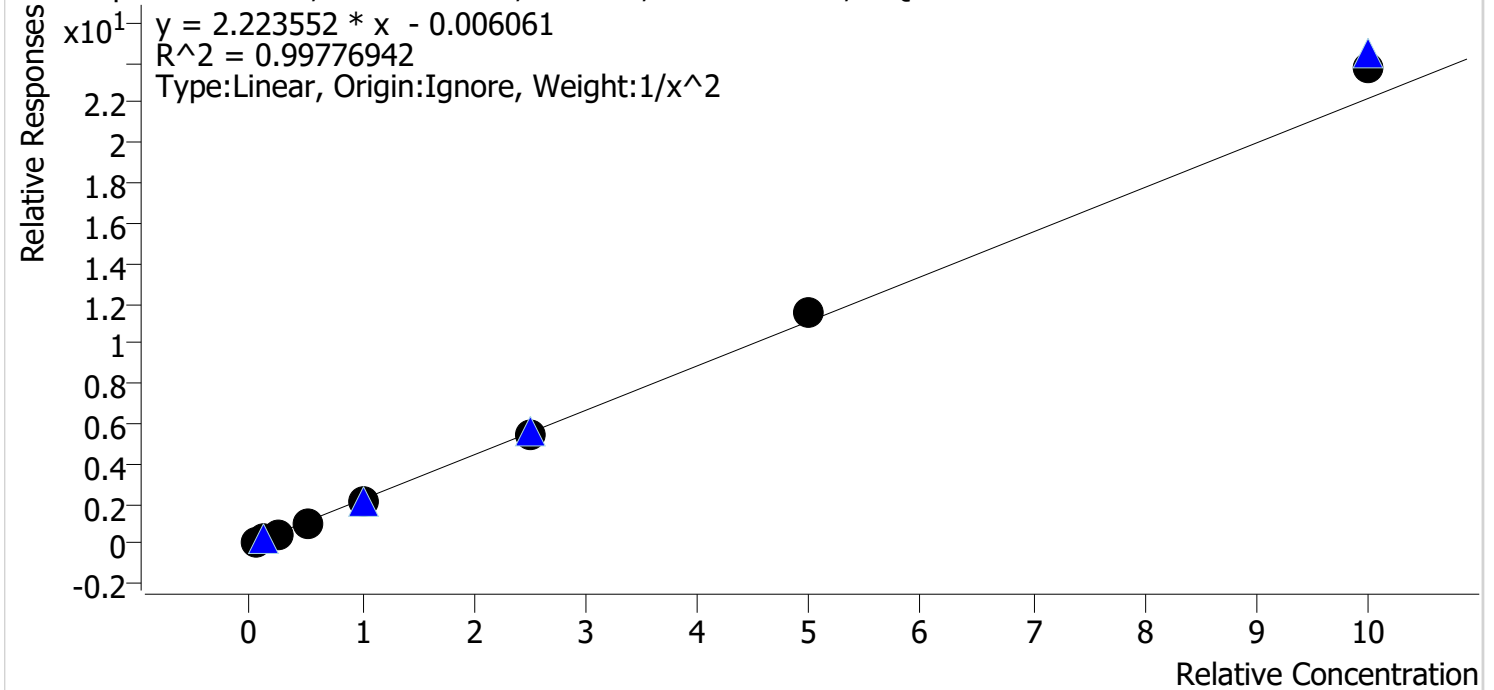
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 100.0    |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 100.8    |
| cal 3  | 3     | ✓       | 25.0                   | 24.6                | 98.2     |
| cal 4  | 4     | ✓       | 50.0                   | 50.0                | 100.0    |
| cal 5  | 5     | ✓       | 100.0                  | 97.5                | 97.5     |
| cal 6  | 6     | ✓       | 250.0                  | 251.3               | 100.5    |
| cal 7  | 7     | ✓       | 500.0                  | 507.2               | 101.4    |
| cal 8  | 8     | ✓       | 1000.0                 | 1014.2              | 101.4    |



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

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

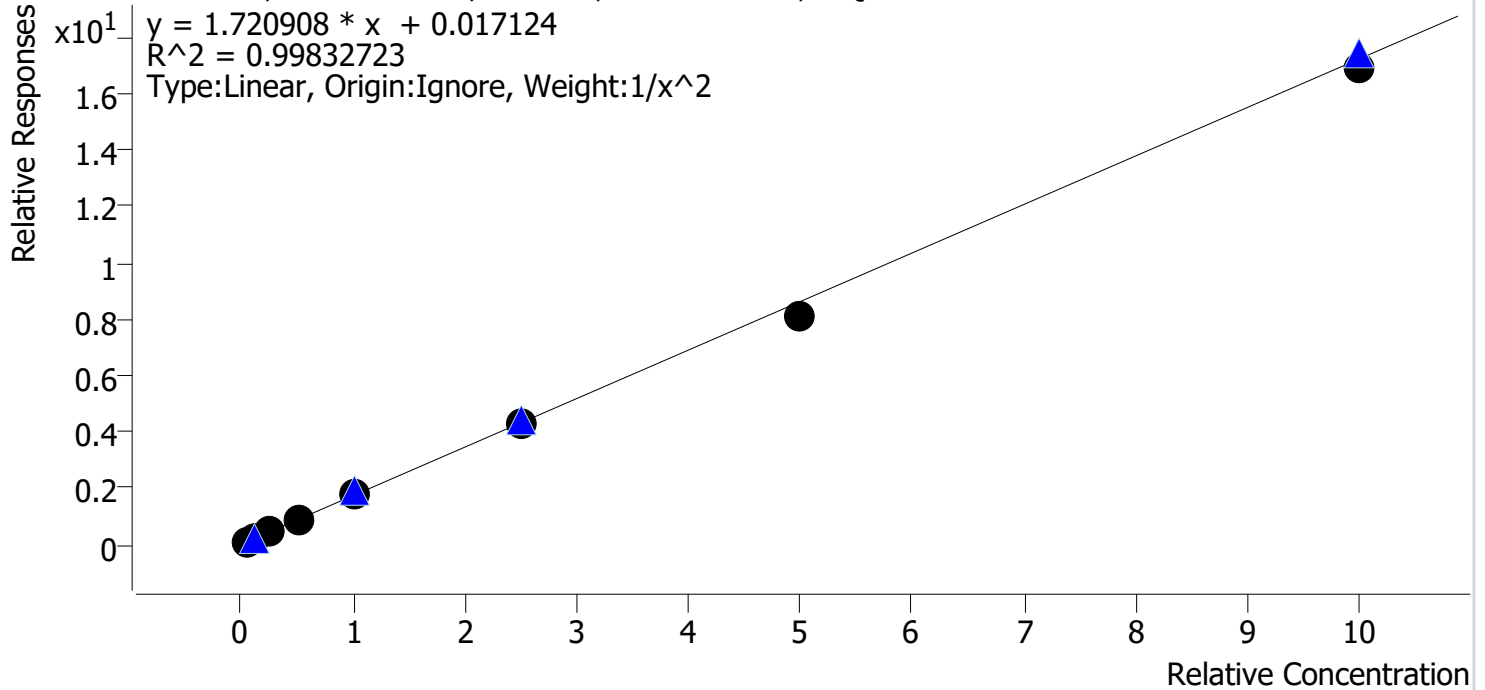


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.1                 | 101.6    |
| cal 2  | 2     | ✓       | 10.0                   | 10.0                | 99.5     |
| cal 3  | 3     | ✓       | 25.0                   | 23.8                | 95.4     |
| cal 4  | 4     | ✓       | 50.0                   | 48.7                | 97.4     |
| cal 5  | 5     | ✓       | 100.0                  | 95.6                | 95.6     |
| cal 6  | 6     | ✓       | 250.0                  | 247.9               | 99.2     |
| cal 7  | 7     | ✓       | 500.0                  | 522.2               | 104.4    |
| cal 8  | 8     | ✓       | 1000.0                 | 1068.8              | 106.9    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

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

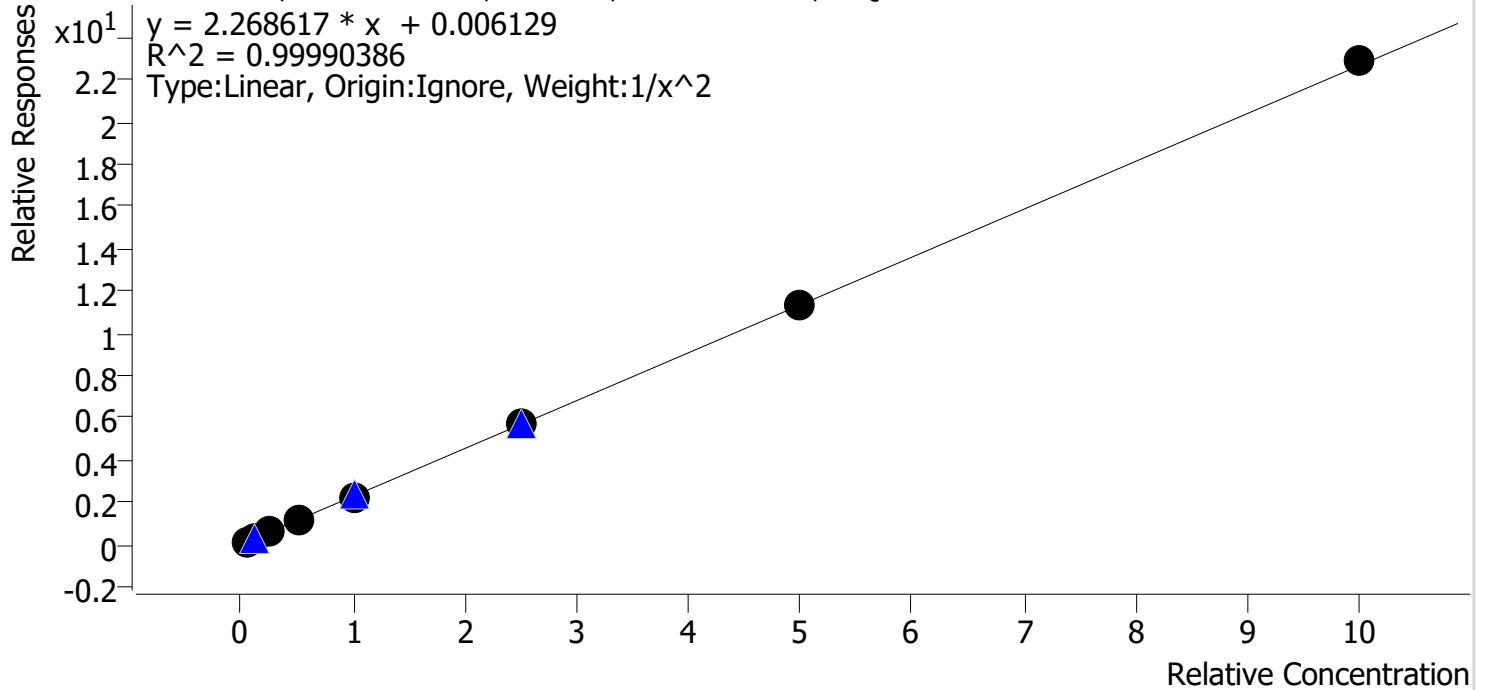


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 4.9                 | 98.2     |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.3    |
| cal 3  | 3     | ✓       | 25.0                   | 26.0                | 103.9    |
| cal 4  | 4     | ✓       | 50.0                   | 52.3                | 104.7    |
| cal 5  | 5     | ✓       | 100.0                  | 100.8               | 100.8    |
| cal 6  | 6     | ✓       | 250.0                  | 247.8               | 99.1     |
| cal 7  | 7     | ✓       | 500.0                  | 467.4               | 93.5     |
| cal 8  | 8     | ✓       | 1000.0                 | 985.1               | 98.5     |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

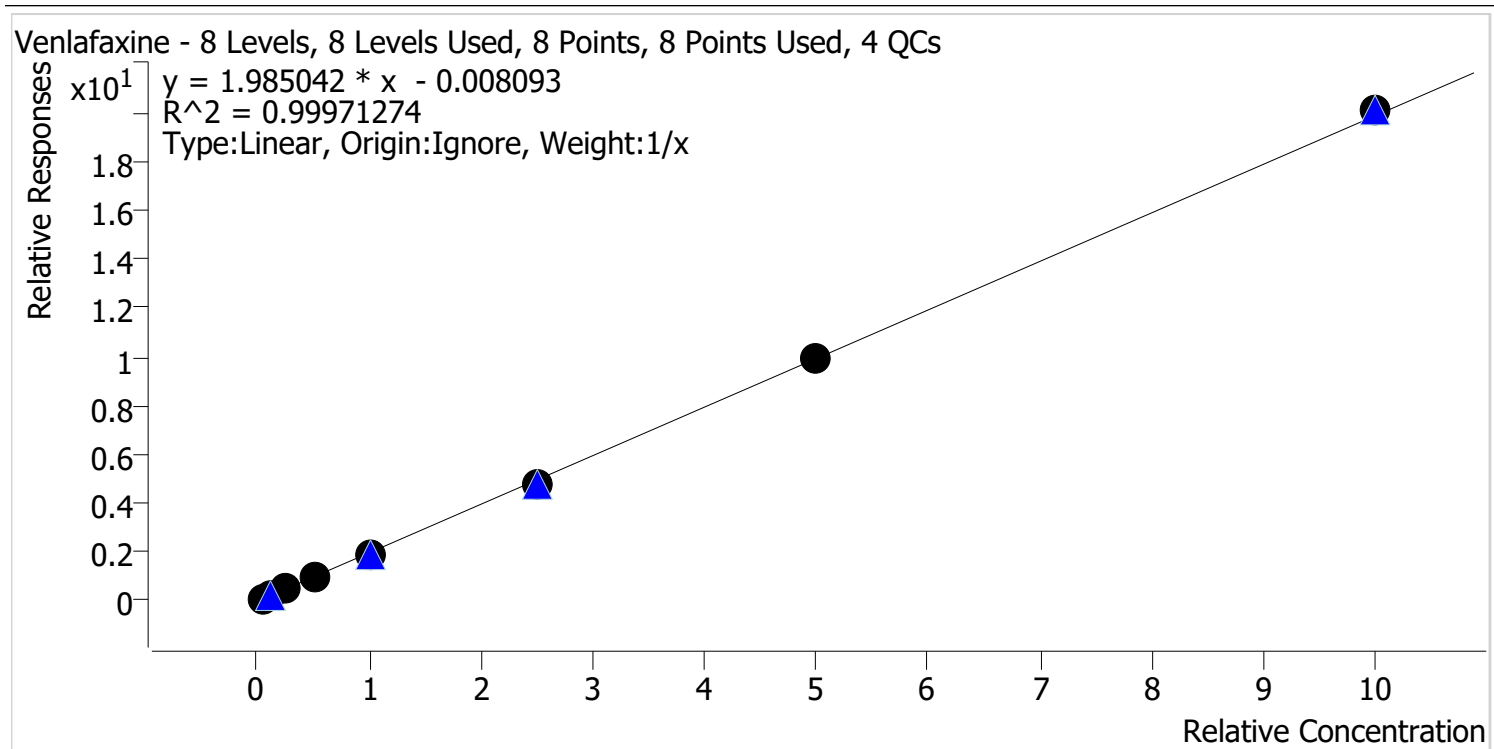
Trazodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 100.5    |
| cal 2  | 2     | ✓       | 10.0                   | 9.9                 | 98.9     |
| cal 3  | 3     | ✓       | 25.0                   | 25.1                | 100.3    |
| cal 4  | 4     | ✓       | 50.0                   | 50.1                | 100.3    |
| cal 5  | 5     | ✓       | 100.0                  | 98.7                | 98.7     |
| cal 6  | 6     | ✓       | 250.0                  | 252.1               | 100.8    |
| cal 7  | 7     | ✓       | 500.0                  | 498.6               | 99.7     |
| cal 8  | 8     | ✓       | 1000.0                 | 1008.9              | 100.9    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

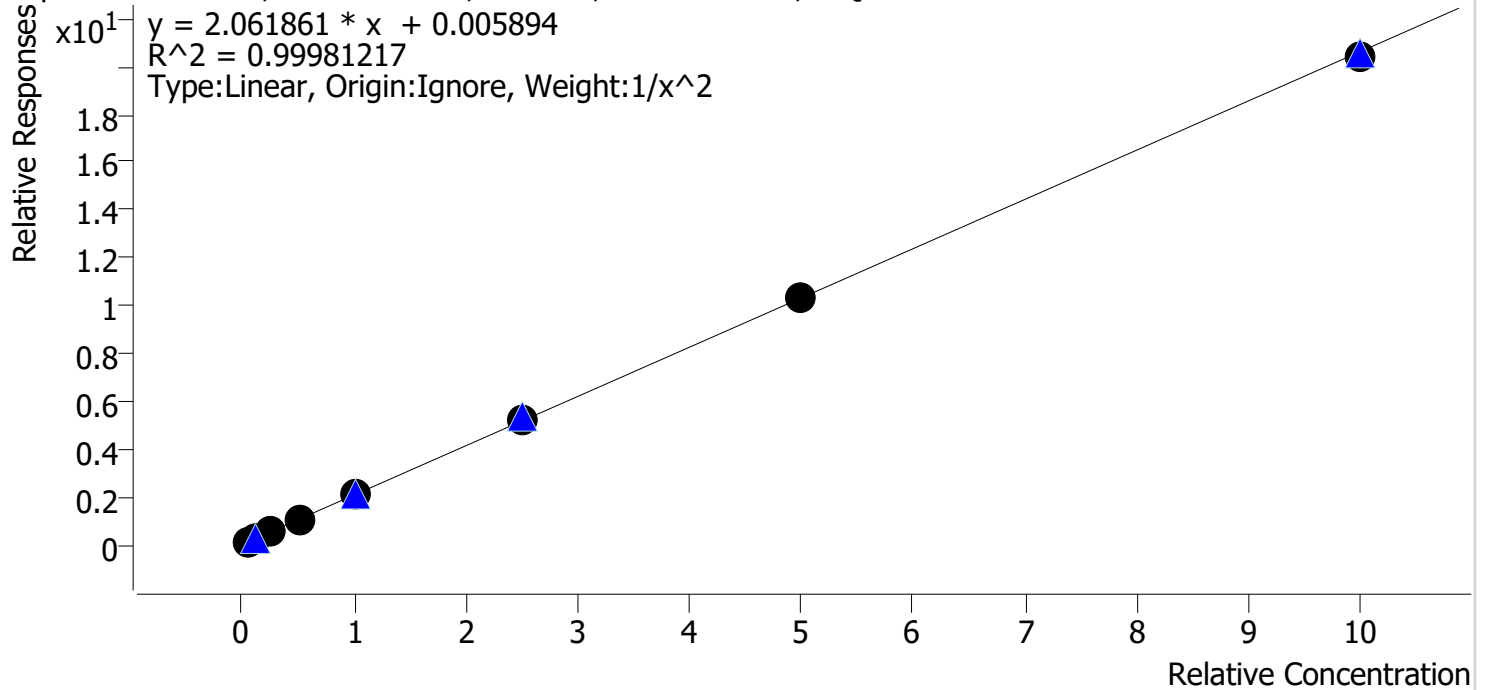


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.4                 | 108.8    |
| cal 2  | 2     | ✓       | 10.0                   | 10.1                | 101.3    |
| cal 3  | 3     | ✓       | 25.0                   | 24.4                | 97.7     |
| cal 4  | 4     | ✓       | 50.0                   | 48.8                | 97.6     |
| cal 5  | 5     | ✓       | 100.0                  | 95.7                | 95.7     |
| cal 6  | 6     | ✓       | 250.0                  | 244.5               | 97.8     |
| cal 7  | 7     | ✓       | 500.0                  | 500.5               | 100.1    |
| cal 8  | 8     | ✓       | 1000.0                 | 1010.6              | 101.1    |

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Last Cal. Update** 2/24/2020 2:56 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



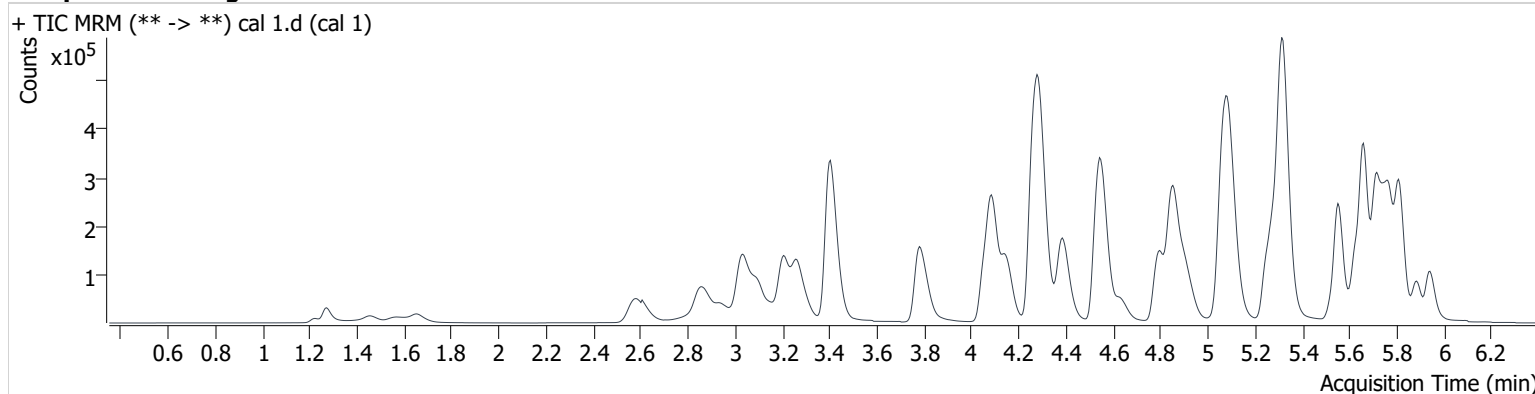
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|--------|-------|---------|------------------------|---------------------|----------|
| cal 1  | 1     | ✓       | 5.0                    | 5.0                 | 100.7    |
| cal 2  | 2     | ✓       | 10.0                   | 9.8                 | 98.4     |
| cal 3  | 3     | ✓       | 25.0                   | 25.0                | 100.1    |
| cal 4  | 4     | ✓       | 50.0                   | 50.7                | 101.5    |
| cal 5  | 5     | ✓       | 100.0                  | 99.4                | 99.4     |
| cal 6  | 6     | ✓       | 250.0                  | 253.8               | 101.5    |
| cal 7  | 7     | ✓       | 500.0                  | 499.2               | 99.8     |
| cal 8  | 8     | ✓       | 1000.0                 | 986.6               | 98.7     |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 1.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 1         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-A1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 4:59:01 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.  | S/N     | Ratio | S/N     | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|---------|-------|---------|------------|-------------|
| 6-MAM               | 3.168 | 1020   | 2234.0  | 70.1  | 1073.9  | 58838      | 0.498 ng/ml |
| 7-aminoclonazepam   | 4.287 | 22866  | 666.8   | 76.1  | 2369.1  | 192031     | 4.856 ng/ml |
| a-hydroxyalprazolam | 5.699 | 4751   | 250.2   | 57.4  | 1616.2  | 46255      | 4.919 ng/ml |
| alpha-PVP           | 4.397 | 56790  | 9624.1  | 54.8  | 1510.6  | 487092     | 5.313 ng/ml |
| Alprazolam          | 5.777 | 36622  | 779.6   | 95.6  | 275.4   | 216868     | 4.943 ng/ml |
| Amphetamine         | 3.107 | 114485 | 540.7   | 53.8  | 410.2   | 352131     | 4.743 ng/ml |
| Benzoylcegonine     | 3.911 | 1665   | 24.9    | 9.2   | 31.1    | 11053      | 5.896 ng/ml |
| Buprenorphine       | 5.693 | 936    | 910.9   | 16.9  | 240.3   | 66844      | 0.526 ng/ml |
| Bupropion           | 4.814 | 59165  | 2062.9  | 60.5  | 843.6   | 462106     | 4.964 ng/ml |
| Carisoprodol        | 5.728 | 38434  | 972.5   | 63.8  | 64.8    | 369002     | 5.007 ng/ml |
| Citalopram          | 5.256 | 44889  | 1135.5  | 37.4  | 19300.9 | 377710     | 4.862 ng/ml |
| Clonazepam          | 5.622 | 22553  | 857.9   | 35.1  | 176.5   | 84714      | 4.675 ng/ml |
| Cocaine             | 4.296 | 45041  | 35269.4 | 46.6  | 1079.9  | 701136     | 5.093 ng/ml |
| Codeine             | 2.633 | 6399   | 225.0   | 99.2  | 1052.9  | 58657      | 4.928 ng/ml |
| Cyclobenzaprine     | 5.635 | 31130  | 1535.4  | 9.7   | 544.1   | 266648     | 4.960 ng/ml |
| Dextromethorphan    | 5.295 | 24085  | 2036.4  | 79.9  | 171.3   | 223402     | 5.025 ng/ml |
| Dextrorphan         | 4.151 | 14673  | 2251.2  | 206.8 | 2301.9  | 313260     | 5.226 ng/ml |
| Diazepam            | 5.947 | 24814  | 575.5   | 87.7  | 1686.1  | 223011     | 4.862 ng/ml |
| Dihydrocodeine      | 2.606 | 14411  | 701.2   | 72.4  | 286.6   | 163315     | 4.894 ng/ml |
| Diphenhydramine     | 5.321 | 130156 | 1219.5  | 35.3  | 5940.8  | 1399086    | 5.640 ng/ml |
| Doxylamine          | 4.564 | 130651 | 4933.3  | 94.0  | 8807.9  | 1097399    | 4.997 ng/ml |
| EDDP                | 5.290 | 13672  | 87.6    | 242.8 | 779.6   | 307752     | 5.098 ng/ml |
| Fentanyl            | 5.117 | 5114   | 183.6   | 59.7  | 3923.1  | 488155     | 0.522 ng/ml |
| Fluoxetine          | 5.715 | 33940  | 30700.3 | 8.5   | 327.0   | 275392     | 5.247 ng/ml |
| Hydrocodone         | 3.063 | 20149  | 380.2   | 44.0  | 310.1   | 233542     | 4.281 ng/ml |
| Hydromorphone       | 1.663 | 10035  | 364.2   | 82.9  | 690.8   | 74293      | 5.064 ng/ml |
| Ketamine            | 4.076 | 44948  | 720.2   | 33.1  | 116.8   | 411337     | 4.965 ng/ml |
| Lamotrigine         | 4.314 | 5269   | 305.4   | 83.1  | 629.0   | 223402     | 5.368 ng/ml |
| Lorazepam           | 5.750 | 17591  | 343.5   | 62.9  | 32.6    | 223011     | 4.651 ng/ml |
| Meprobamate         | 4.932 | 28070  | 25037.8 | 30.9  | 287.9   | 252158     | 4.940 ng/ml |
| Methadone           | 5.664 | 65734  | 10570.4 | 62.3  | 399.0   | 690767     | 5.253 ng/ml |
| Methamphetamine     | 3.269 | 200580 | 1323.5  | 39.6  | 667.5   | 523774     | 3.451 ng/ml |
| Metoprolol          | 4.354 | 12337  | 1258.0  | 98.7  | 648.3   | 1097399    | 4.831 ng/ml |

# AM #28 Multi-Drug Quant. Results

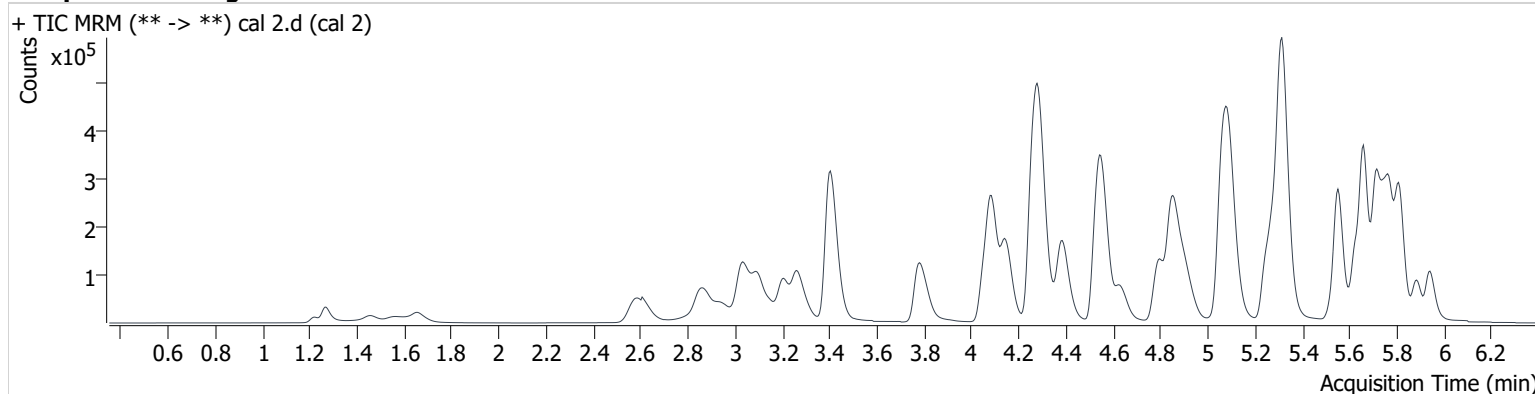
| Name                 | RT    | Resp.  | S/N     | Ratio            | S/N     | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|---------|------------------|---------|------------|-------------|
| Mirtazapine          | 4.635 | 84088  | 4791.8  | 49.5             | 2839.4  | 690767     | 5.144 ng/ml |
| Mitragynine          | 5.245 | 11127  | 909.3   | 39.5             | 3739.6  | 690767     | 4.871 ng/ml |
| Morphine             | 1.227 | 2532   | 13756.8 | 32.0             | 872.1   | 3782       | 4.795 ng/ml |
| Norbuprenorphine     | 5.044 | 166    | 274.1   | 81.8 <b>Low</b>  | 101.8   | 13835      | 0.436 ng/ml |
| Nordiazepam          | 5.892 | 26359  | 24363.9 | 56.7             | 2002.3  | 167502     | 4.936 ng/ml |
| Norfentanyl          | 4.117 | 7427   | 221.0   | 42.9             | 201.9   | 655305     | 0.513 ng/ml |
| Norhydrocodone       | 3.110 | 864    | 10.2    | 52.9 <b>High</b> | 86.5    | 71088      | 5.164 ng/ml |
| Noroxycodone         | 2.962 | 17456  | 273.9   | 47.6             | 238.6   | 118872     | 4.807 ng/ml |
| O-desmethyl-tramadol | 3.410 | 103269 | 19553.2 | 6.3              | 461.9   | 1075848    | 5.436 ng/ml |
| Oxazepam             | 5.758 | 31276  | 540.3   | 65.9             | 140.2   | 352915     | 3.910 ng/ml |
| Oxycodone            | 2.884 | 32550  | 133.8   | 35.6             | 795.1   | 335683     | 4.618 ng/ml |
| Oxymorphone          | 1.460 | 8547   | 21427.4 | 55.2             | 12966.2 | 62916      | 4.246 ng/ml |
| Phentermine          | 3.818 | 28321  | 100.4   | 5.5              | 15.9    | 574278     | 4.775 ng/ml |
| Promethazine         | 5.558 | 57594  | 1344.4  | 32.2             | 317.4   | 495138     | 5.485 ng/ml |
| Quetiapine           | 5.539 | 43540  | 749.2   | 61.3             | 18966.1 | 124917     | 4.829 ng/ml |
| Sertraline           | 5.777 | 16039  | 343.3   | 95.2             | 17650.6 | 141660     | 5.002 ng/ml |
| Temazepam            | 5.819 | 63466  | 1547.6  | 28.5             | 63.4    | 593888     | 5.079 ng/ml |
| Tramadol             | 4.278 | 114727 | 9559.5  | 3.9              | 10.6    | 1129374    | 4.908 ng/ml |
| Trazodone            | 5.101 | 54633  | 8671.5  | 82.5             | 48091.3 | 454620     | 5.027 ng/ml |
| Venlafaxine          | 5.078 | 94089  | 2576.5  | 36.4             | 330.4   | 941440     | 5.442 ng/ml |
| Zolpidem             | 4.873 | 93759  | 51330.8 | 27.0             | 1350.7  | 854830     | 5.034 ng/ml |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 2.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 2         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-B1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 5:09:51 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.  | S/N      | Ratio | S/N     | ISTD Resp. | Final Conc.  |
|---------------------|-------|--------|----------|-------|---------|------------|--------------|
| 6-MAM               | 3.173 | 2006   | 697.3    | 64.4  | 171.7   | 55524      | 1.043 ng/ml  |
| 7-aminoclonazepam   | 4.287 | 38899  | 209.4    | 76.0  | 21378.9 | 168665     | 10.236 ng/ml |
| a-hydroxyalprazolam | 5.699 | 8186   | 299.2    | 61.2  | 212.0   | 41232      | 10.112 ng/ml |
| alpha-PVP           | 4.392 | 93304  | 12887.2  | 54.9  | 1133.1  | 414153     | 10.035 ng/ml |
| Alprazolam          | 5.777 | 63890  | 862.4    | 93.9  | 139.2   | 190243     | 10.062 ng/ml |
| Amphetamine         | 3.107 | 160770 | 1002.9   | 52.7  | 928.4   | 278170     | 10.226 ng/ml |
| Benzoylcegonine     | 3.911 | 2809   | 180.5    | 7.0   | 58.1    | 9914       | 10.615 ng/ml |
| Buprenorphine       | 5.688 | 1442   | 66.1     | 16.6  | 95.4    | 54855      | 0.943 ng/ml  |
| Bupropion           | 4.809 | 89167  | 3138.4   | 60.8  | 2383.4  | 360190     | 10.030 ng/ml |
| Carisoprodol        | 5.723 | 67089  | 1520.9   | 64.6  | 153.1   | 329193     | 9.968 ng/ml  |
| Citalopram          | 5.251 | 79397  | 44.0     | 36.2  | 18007.2 | 341339     | 9.947 ng/ml  |
| Clonazepam          | 5.617 | 38773  | 76658.1  | 35.3  | 5773.4  | 71598      | 10.655 ng/ml |
| Cocaine             | 4.291 | 76413  | 117623.7 | 47.9  | 36078.6 | 616243     | 9.989 ng/ml  |
| Codeine             | 2.633 | 11526  | 556.6    | 98.6  | 839.9   | 53518      | 10.069 ng/ml |
| Cyclobenzaprine     | 5.630 | 57146  | 272.6    | 9.6   | 108.5   | 248083     | 9.975 ng/ml  |
| Dextromethorphan    | 5.295 | 52346  | 1392.6   | 77.1  | 921.5   | 249409     | 9.937 ng/ml  |
| Dextrorphan         | 4.151 | 32514  | 40915.7  | 215.1 | 22123.0 | 374932     | 9.732 ng/ml  |
| Diazepam            | 5.947 | 42695  | 2195.5   | 86.2  | 2318.8  | 191596     | 10.145 ng/ml |
| Dihydrocodeine      | 2.606 | 26788  | 181.3    | 73.3  | 5547.7  | 160915     | 10.034 ng/ml |
| Diphenhydramine     | 5.321 | 223499 | 3265.3   | 35.5  | 531.8   | 1256019    | 10.138 ng/ml |
| Doxylamine          | 4.558 | 230725 | 9605.5   | 92.9  | 3500.3  | 991948     | 9.999 ng/ml  |
| EDDP                | 5.284 | 20046  | 4600.1   | 251.9 | 2126.6  | 242907     | 9.634 ng/ml  |
| Fentanyl            | 5.117 | 8212   | 425.9    | 67.2  | 5029.0  | 430279     | 0.948 ng/ml  |
| Fluoxetine          | 5.715 | 61146  | 1453.9   | 8.4   | 2626.5  | 252338     | 10.206 ng/ml |
| Hydrocodone         | 3.063 | 37190  | 556.2    | 43.6  | 285.0   | 221245     | 9.801 ng/ml  |
| Hydromorphone       | 1.663 | 20300  | 2987.8   | 74.1  | 727.0   | 77158      | 10.188 ng/ml |
| Ketamine            | 4.071 | 75069  | 916.4    | 34.2  | 309.7   | 360528     | 9.962 ng/ml  |
| Lamotrigine         | 4.309 | 8640   | 344.8    | 85.9  | 363.3   | 249409     | 8.149 ng/ml  |
| Lorazepam           | 5.745 | 31158  | 716.7    | 62.5  | 139.7   | 191596     | 11.459 ng/ml |
| Meprobamate         | 4.932 | 48977  | 45060.1  | 30.2  | 222.4   | 223551     | 10.140 ng/ml |
| Methadone           | 5.664 | 113547 | 6859.3   | 61.1  | 3632.2  | 609855     | 10.083 ng/ml |
| Methamphetamine     | 3.269 | 184362 | 539.2    | 39.7  | 382.2   | 330879     | 10.767 ng/ml |
| Metoprolol          | 4.354 | 20710  | 898.8    | 100.3 | 2131.9  | 991948     | 10.035 ng/ml |



# AM #28 Multi-Drug Quant. Results

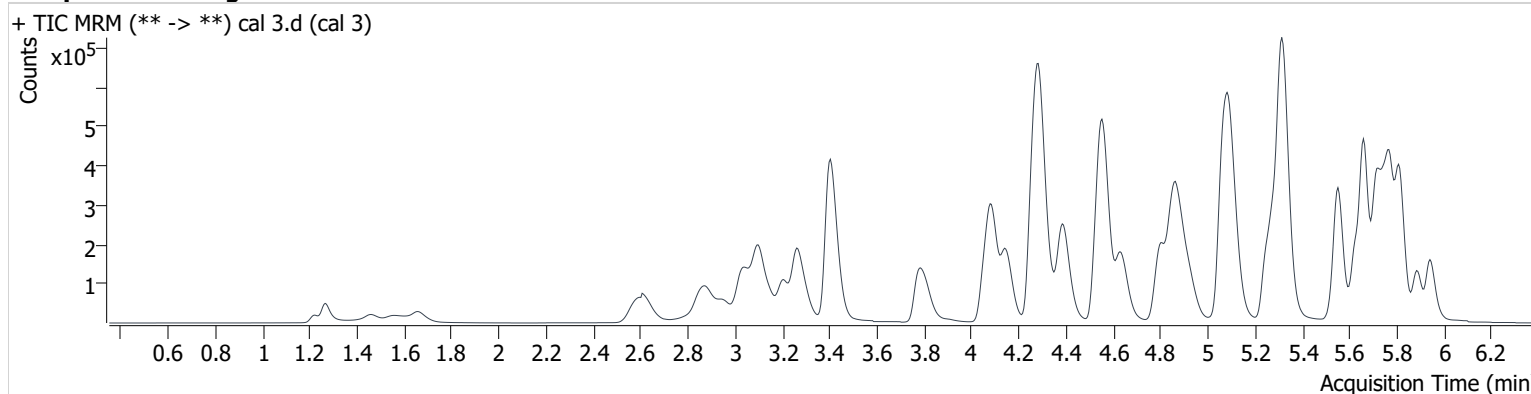
| Name                 | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.  |
|----------------------|-------|--------|----------|-------|----------|------------|--------------|
| Mirtazapine          | 4.635 | 142089 | 104640.0 | 50.5  | 160492.4 | 609855     | 9.599 ng/ml  |
| Mitragynine          | 5.240 | 20121  | 2633.9   | 36.1  | 165.0    | 609855     | 10.396 ng/ml |
| Morphine             | 1.222 | 5036   | 5082.0   | 32.1  | 27.7     | 3903       | 9.812 ng/ml  |
| Norbuprenorphine     | 5.034 | 268    | 103.7    | 103.1 | 235.5    | 12102      | 1.023 ng/ml  |
| Nordiazepam          | 5.892 | 44814  | 5360.1   | 56.7  | 1587.8   | 147622     | 10.070 ng/ml |
| Norfentanyl          | 4.112 | 13965  | 103.4    | 43.9  | 15.0     | 648175     | 0.967 ng/ml  |
| Norhydrocodone       | 3.105 | 1658   | 92.2     | 39.6  | 84.6     | 66255      | 9.610 ng/ml  |
| Noroxycodone         | 2.956 | 30430  | 631.5    | 47.6  | 1143.2   | 108489     | 9.776 ng/ml  |
| O-desmethyl-tramadol | 3.410 | 176700 | 1510.6   | 6.4   | 1385.1   | 944809     | 10.243 ng/ml |
| Oxazepam             | 5.758 | 54450  | 434.1    | 70.0  | 122.7    | 313864     | 9.565 ng/ml  |
| Oxycodone            | 2.879 | 57001  | 5267.1   | 34.4  | 1196.6   | 300751     | 9.782 ng/ml  |
| Oxymorphone          | 1.460 | 14812  | 660.4    | 51.9  | 27170.4  | 57016      | 9.287 ng/ml  |
| Phentermine          | 3.813 | 43362  | 237.9    | 5.3   | 79.4     | 452728     | 10.362 ng/ml |
| Promethazine         | 5.558 | 108633 | 36643.5  | 31.9  | 346.3    | 484565     | 10.201 ng/ml |
| Quetiapine           | 5.539 | 74835  | 2330.5   | 61.4  | 946.6    | 110143     | 10.296 ng/ml |
| Sertraline           | 5.777 | 28101  | 1797.8   | 96.6  | 27986.5  | 123455     | 10.080 ng/ml |
| Temazepam            | 5.819 | 111178 | 3742.9   | 27.5  | 161.0    | 516463     | 9.954 ng/ml  |
| Tramadol             | 4.278 | 192704 | 108202.1 | 3.6   | 22.4     | 1006674    | 10.129 ng/ml |
| Trazodone            | 5.101 | 92623  | 763.6    | 81.8  | 53742.3  | 401981     | 9.887 ng/ml  |
| Venlafaxine          | 5.073 | 158832 | 1007.8   | 37.0  | 369.6    | 822895     | 10.131 ng/ml |
| Zolpidem             | 4.873 | 155859 | 182692.8 | 28.6  | 997.5    | 746884     | 9.835 ng/ml  |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 3.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 3         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-C1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 5:20:39 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.  |
|---------------------|-------|--------|----------|-------|----------|------------|--------------|
| 6-MAM               | 3.173 | 4552   | 256.0    | 69.3  | 359.1    | 56739      | 2.323 ng/ml  |
| 7-aminoclonazepam   | 4.287 | 101712 | 6244.2   | 74.8  | 971.4    | 180150     | 26.341 ng/ml |
| a-hydroxyalprazolam | 5.699 | 20051  | 545.0    | 62.9  | 849.1    | 41307      | 25.660 ng/ml |
| alpha-PVP           | 4.397 | 245689 | 27810.0  | 53.9  | 4559.3   | 438683     | 24.581 ng/ml |
| Alprazolam          | 5.777 | 161529 | 2450.3   | 98.0  | 1139.8   | 197434     | 24.849 ng/ml |
| Amphetamine         | 3.107 | 409337 | 2198.0   | 53.0  | 3749.5   | 296786     | 27.603 ng/ml |
| Benzoylcegonine     | 3.906 | 6673   | 994.7    | 8.0   | 150.2    | 10328      | 23.520 ng/ml |
| Buprenorphine       | 5.688 | 3683   | 132.0    | 17.3  | 489.5    | 56338      | 2.270 ng/ml  |
| Bupropion           | 4.814 | 239566 | 4693.5   | 61.4  | 2858.6   | 393114     | 25.366 ng/ml |
| Carisoprodol        | 5.728 | 168165 | 1698.5   | 63.7  | 1326.2   | 333256     | 24.948 ng/ml |
| Citalopram          | 5.251 | 184074 | 260.8    | 37.7  | 122318.4 | 321617     | 25.135 ng/ml |
| Clonazepam          | 5.622 | 100790 | 87904.2  | 34.1  | 34421.2  | 76363      | 27.558 ng/ml |
| Cocaine             | 4.291 | 197099 | 40087.4  | 46.9  | 106.8    | 644684     | 24.880 ng/ml |
| Codeine             | 2.633 | 29132  | 230.9    | 95.7  | 1021.8   | 53636      | 25.925 ng/ml |
| Cyclobenzaprine     | 5.635 | 116623 | 40523.5  | 9.4   | 594.5    | 204700     | 24.957 ng/ml |
| Dextromethorphan    | 5.295 | 100745 | 7443.3   | 77.3  | 1231.3   | 194728     | 24.732 ng/ml |
| Dextrorphan         | 4.151 | 67170  | 130.3    | 213.3 | 89210.1  | 305492     | 24.775 ng/ml |
| Diazepam            | 5.947 | 111445 | 2035.8   | 86.2  | 4692.3   | 203514     | 25.523 ng/ml |
| Dihydrocodeine      | 2.606 | 65563  | 10107.3  | 73.5  | 603.4    | 158802     | 26.222 ng/ml |
| Diphenhydramine     | 5.321 | 530072 | 42888.7  | 36.1  | 624.8    | 1204686    | 24.019 ng/ml |
| Doxylamine          | 4.558 | 578450 | 5661.7   | 93.8  | 1020.8   | 1013880    | 24.887 ng/ml |
| EDDP                | 5.290 | 52854  | 1044.6   | 246.1 | 1377.0   | 252613     | 24.720 ng/ml |
| Fentanyl            | 5.117 | 19423  | 56.1     | 62.1  | 15223.6  | 410276     | 2.345 ng/ml  |
| Fluoxetine          | 5.710 | 117407 | 40985.3  | 8.6   | 4287.4   | 202637     | 24.247 ng/ml |
| Hydrocodone         | 3.063 | 90446  | 428.9    | 44.1  | 631.1    | 219370     | 26.275 ng/ml |
| Hydromorphone       | 1.663 | 43620  | 3694.5   | 72.8  | 515.0    | 68503      | 25.141 ng/ml |
| Ketamine            | 4.071 | 198749 | 13817.5  | 33.5  | 94.4     | 382783     | 25.669 ng/ml |
| Lamotrigine         | 4.314 | 21316  | 795.4    | 87.5  | 886.7    | 194728     | 26.973 ng/ml |
| Lorazepam           | 5.750 | 69814  | 1027.5   | 63.7  | 189.4    | 203514     | 26.125 ng/ml |
| Meprobamate         | 4.932 | 122895 | 113966.0 | 30.4  | 2299.5   | 227583     | 25.625 ng/ml |
| Methadone           | 5.664 | 275416 | 46272.7  | 60.0  | 5510.7   | 598165     | 24.636 ng/ml |
| Methamphetamine     | 3.269 | 355156 | 1449.3   | 39.2  | 1428.6   | 375644     | 27.071 ng/ml |
| Metoprolol          | 4.354 | 54138  | 80538.1  | 99.1  | 2510.2   | 1013880    | 27.598 ng/ml |

# AM #28 Multi-Drug Quant. Results

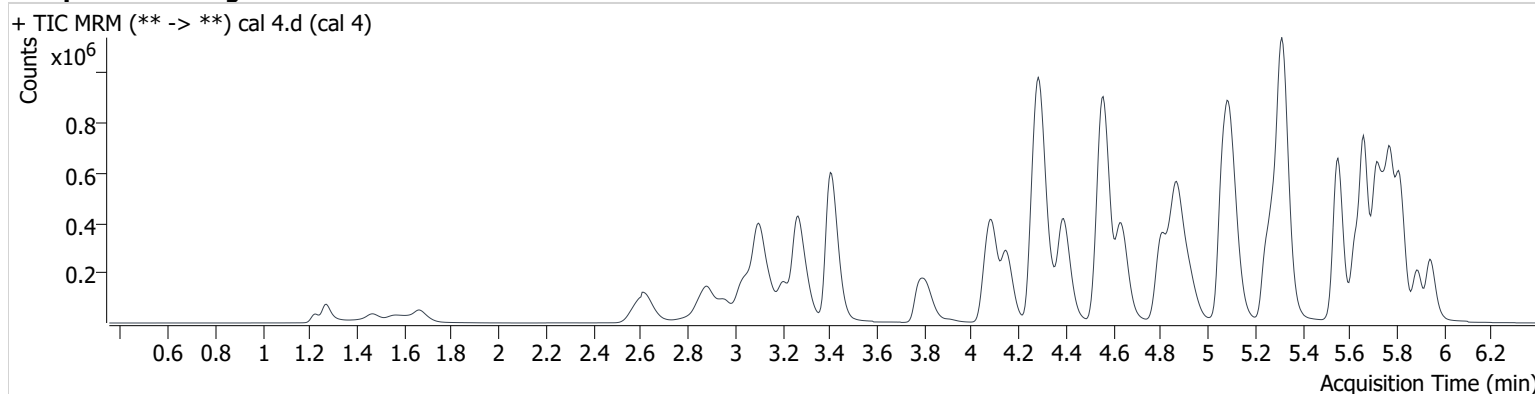
| Name                 | RT    | Resp.  | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.  |
|----------------------|-------|--------|----------|-------|----------|------------|--------------|
| Mirtazapine          | 4.635 | 357990 | 831.0    | 50.3  | 19190.5  | 598165     | 24.233 ng/ml |
| Mitragynine          | 5.240 | 47006  | 120.6    | 37.0  | 224.8    | 598165     | 25.315 ng/ml |
| Morphine             | 1.222 | 11976  | 132445.8 | 31.0  | 14659.7  | 3783       | 24.967 ng/ml |
| Norbuprenorphine     | 5.024 | 543    | 448.6    | 117.2 | 689.4    | 12171      | 2.321 ng/ml  |
| Nordiazepam          | 5.892 | 115929 | 25147.7  | 55.9  | 2296.9   | 154894     | 25.693 ng/ml |
| Norfentanyl          | 4.112 | 33008  | 46549.1  | 40.5  | 447.1    | 607933     | 2.422 ng/ml  |
| Norhydrocodone       | 3.105 | 4011   | 395.9    | 41.3  | 39.7     | 63850      | 22.666 ng/ml |
| Noroxycodone         | 2.956 | 74200  | 1102.2   | 46.0  | 1184.9   | 107736     | 24.952 ng/ml |
| O-desmethyl-tramadol | 3.410 | 453360 | 127702.8 | 6.5   | 1838.6   | 1005658    | 24.171 ng/ml |
| Oxazepam             | 5.758 | 128733 | 1110.5   | 68.8  | 960.5    | 302695     | 26.347 ng/ml |
| Oxycodone            | 2.884 | 146863 | 875.9    | 34.2  | 1464.1   | 312282     | 25.447 ng/ml |
| Oxymorphone          | 1.460 | 37201  | 17.8     | 50.8  | 82099.1  | 55162      | 26.150 ng/ml |
| Phentermine          | 3.818 | 114463 | 733.5    | 5.4   | 250.4    | 490474     | 26.907 ng/ml |
| Promethazine         | 5.558 | 211075 | 2043.3   | 31.9  | 434.7    | 383171     | 24.482 ng/ml |
| Quetiapine           | 5.539 | 183488 | 278706.7 | 62.9  | 121114.0 | 111480     | 26.264 ng/ml |
| Sertraline           | 5.777 | 57432  | 1298.2   | 94.3  | 53124.2  | 103705     | 24.557 ng/ml |
| Temazepam            | 5.819 | 282828 | 2804.3   | 28.3  | 341.7    | 539698     | 23.841 ng/ml |
| Tramadol             | 4.278 | 485708 | 1029.6   | 3.5   | 262.7    | 1046623    | 25.972 ng/ml |
| Trazodone            | 5.106 | 235301 | 72266.4  | 84.3  | 24404.0  | 409430     | 25.063 ng/ml |
| Venlafaxine          | 5.073 | 412049 | 45125.2  | 36.0  | 1203.3   | 864507     | 24.419 ng/ml |
| Zolpidem             | 4.873 | 415172 | 755297.6 | 28.7  | 46847.9  | 795896     | 25.014 ng/ml |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 4.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 4         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-D1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 5:31:27 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.  |
|---------------------|-------|---------|----------|-------|----------|------------|--------------|
| 6-MAM               | 3.173 | 10419   | 457.1    | 71.1  | 6168.6   | 61676      | 4.896 ng/ml  |
| 7-aminoclonazepam   | 4.287 | 212115  | 217.6    | 74.9  | 6583.9   | 188723     | 53.316 ng/ml |
| a-hydroxyalprazolam | 5.699 | 40177   | 871.4    | 61.5  | 158.4    | 40200      | 53.518 ng/ml |
| alpha-PVP           | 4.397 | 562601  | 68109.5  | 53.7  | 15559.8  | 494513     | 49.678 ng/ml |
| Alprazolam          | 5.777 | 337755  | 4907.7   | 95.9  | 3822.1   | 201881     | 51.059 ng/ml |
| Amphetamine         | 3.107 | 982972  | 14981.0  | 51.1  | 1468.0   | 348898     | 58.790 ng/ml |
| Benzoylcegonine     | 3.911 | 14624   | 11024.9  | 8.6   | 91.6     | 11418      | 46.102 ng/ml |
| Buprenorphine       | 5.693 | 8779    | 507.1    | 14.7  | 675.6    | 62100      | 4.850 ng/ml  |
| Bupropion           | 4.814 | 558763  | 5624.7   | 62.0  | 3741.0   | 456413     | 51.424 ng/ml |
| Carisoprodol        | 5.728 | 337926  | 7487.9   | 63.6  | 2642.4   | 330140     | 50.791 ng/ml |
| Citalopram          | 5.251 | 419853  | 10537.1  | 38.5  | 76951.0  | 370978     | 50.142 ng/ml |
| Clonazepam          | 5.622 | 196608  | 5008.1   | 34.1  | 326.6    | 75538      | 55.419 ng/ml |
| Cocaine             | 4.296 | 429227  | 741.6    | 47.6  | 72840.9  | 697112     | 50.281 ng/ml |
| Codeine             | 2.633 | 63457   | 17640.5  | 96.1  | 622.9    | 59430      | 51.304 ng/ml |
| Cyclobenzaprine     | 5.630 | 307920  | 288484.0 | 9.5   | 2025.8   | 266035     | 50.902 ng/ml |
| Dextromethorphan    | 5.295 | 232324  | 172863.3 | 77.6  | 35916.1  | 222102     | 50.169 ng/ml |
| Dextrorphan         | 4.151 | 152831  | 2442.0   | 213.8 | 170991.4 | 338728     | 50.909 ng/ml |
| Diazepam            | 5.947 | 238713  | 3972.9   | 86.2  | 3249.5   | 219874     | 51.002 ng/ml |
| Dihydrocodeine      | 2.606 | 145896  | 547.9    | 72.7  | 19328.0  | 174134     | 54.144 ng/ml |
| Diphenhydramine     | 5.321 | 1230251 | 68777.1  | 35.6  | 41331.7  | 1350506    | 48.965 ng/ml |
| Doxylamine          | 4.564 | 1314374 | 2087.8   | 93.7  | 74855.9  | 1132697    | 50.874 ng/ml |
| EDDP                | 5.290 | 121123  | 3738.1   | 246.0 | 21205.3  | 281740     | 50.997 ng/ml |
| Fentanyl            | 5.112 | 46089   | 2464.9   | 63.4  | 30542.9  | 472732     | 4.825 ng/ml  |
| Fluoxetine          | 5.710 | 350012  | 4476.7   | 8.2   | 11702.5  | 290914     | 50.228 ng/ml |
| Hydrocodone         | 3.063 | 195450  | 600.5    | 43.1  | 982.9    | 235734     | 54.394 ng/ml |
| Hydromorphone       | 1.668 | 102531  | 2202.4   | 76.4  | 789.2    | 80749      | 50.473 ng/ml |
| Ketamine            | 4.076 | 441009  | 94657.0  | 34.5  | 3163.8   | 425551     | 51.784 ng/ml |
| Lamotrigine         | 4.319 | 46084   | 1362.8   | 87.3  | 2832.4   | 222102     | 51.634 ng/ml |
| Lorazepam           | 5.745 | 123638  | 2971.7   | 62.1  | 374.4    | 219874     | 43.949 ng/ml |
| Meprobamate         | 4.932 | 258123  | 142.9    | 30.1  | 5137.2   | 242934     | 50.839 ng/ml |
| Methadone           | 5.664 | 625951  | 10420.7  | 61.2  | 7847.4   | 675223     | 49.395 ng/ml |
| Methamphetamine     | 3.269 | 858532  | 813.2    | 39.9  | 414.5    | 551442     | 52.746 ng/ml |
| Metoprolol          | 4.354 | 120461  | 5978.0   | 99.0  | 2836.4   | 1132697    | 56.199 ng/ml |

# AM #28 Multi-Drug Quant. Results

| Name                 | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.  |
|----------------------|-------|---------|----------|-------|----------|------------|--------------|
| Mirtazapine          | 4.635 | 829398  | 248538.4 | 50.3  | 1359.2   | 675223     | 49.451 ng/ml |
| Mitragynine          | 5.240 | 110282  | 8974.6   | 37.4  | 39282.7  | 675223     | 53.047 ng/ml |
| Morphine             | 1.227 | 26045   | 98882.5  | 31.8  | 32757.4  | 3971       | 52.386 ng/ml |
| Norbuprenorphine     | 5.019 | 1255    | 1453.6   | 105.3 | 1220.3   | 13541      | 5.095 ng/ml  |
| Nordiazepam          | 5.892 | 244972  | 125926.9 | 55.7  | 4155.2   | 163976     | 51.874 ng/ml |
| Norfentanyl          | 4.117 | 74594   | 78020.6  | 40.7  | 237.0    | 675664     | 4.916 ng/ml  |
| Norhydrocodone       | 3.110 | 9797    | 97.7     | 42.0  | 75.1     | 68456      | 50.413 ng/ml |
| Noroxycodone         | 2.962 | 156138  | 2020.3   | 47.6  | 706.1    | 111960     | 51.195 ng/ml |
| O-desmethyl-tramadol | 3.410 | 1017015 | 103653.2 | 6.5   | 802.6    | 1104790    | 48.974 ng/ml |
| Oxazepam             | 5.758 | 239092  | 5957.2   | 67.2  | 741.3    | 274262     | 56.102 ng/ml |
| Oxycodone            | 2.884 | 323330  | 1468.5   | 34.5  | 3050.6   | 338538     | 52.495 ng/ml |
| Oxymorphone          | 1.465 | 85823   | 231979.4 | 51.0  | 92517.0  | 64467      | 52.866 ng/ml |
| Phentermine          | 3.818 | 273247  | 1864.5   | 5.2   | 109.5    | 583350     | 55.169 ng/ml |
| Promethazine         | 5.558 | 553770  | 18116.4  | 31.6  | 1119.3   | 502413     | 48.585 ng/ml |
| Quetiapine           | 5.539 | 424475  | 324117.5 | 62.8  | 281848.3 | 127461     | 54.093 ng/ml |
| Sertraline           | 5.777 | 170213  | 419.3    | 92.7  | 196414.7 | 151008     | 50.006 ng/ml |
| Temazepam            | 5.819 | 600741  | 17297.6  | 27.9  | 635.2    | 557704     | 48.716 ng/ml |
| Tramadol             | 4.278 | 1064198 | 28606.1  | 3.5   | 476.2    | 1159288    | 52.347 ng/ml |
| Trazodone            | 5.106 | 536058  | 45572.3  | 83.3  | 39150.3  | 468830     | 50.130 ng/ml |
| Venlafaxine          | 5.073 | 911930  | 2997.4   | 36.6  | 2235.0   | 949699     | 48.781 ng/ml |
| Zolpidem             | 4.873 | 922146  | 416702.0 | 29.0  | 45913.9  | 876514     | 50.739 ng/ml |

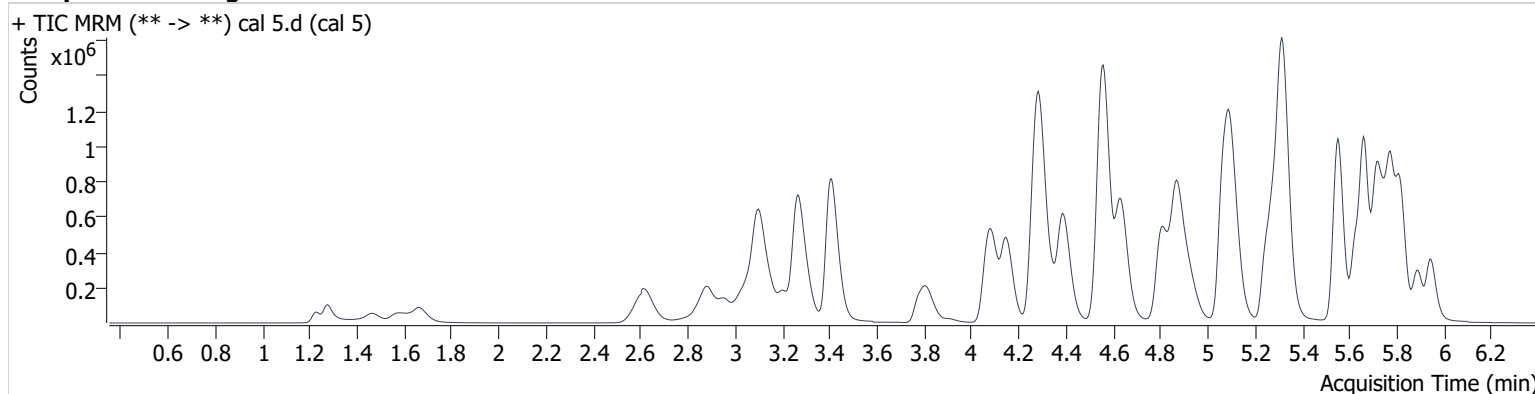
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 5.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 5         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-E1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 5:42:16 PM |                  |               |

**Sample Info.**

**Sample Chromatogram**



| Name                | RT    | Resp.   | S/N      | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|---------|----------|-------|----------|------------|---------------|
| 6-MAM               | 3.168 | 19107   | 1376.2   | 71.7  | 706.1    | 59193      | 9.359 ng/ml   |
| 7-aminoclonazepam   | 4.287 | 354869  | 19479.9  | 75.4  | 552.7    | 165983     | 102.218 ng/ml |
| a-hydroxyalprazolam | 5.699 | 67895   | 667.3    | 61.2  | 1854.2   | 37000      | 98.805 ng/ml  |
| alpha-PVP           | 4.392 | 1015647 | 1963.6   | 53.7  | 16325.1  | 460393     | 96.096 ng/ml  |
| Alprazolam          | 5.777 | 570565  | 1292.5   | 95.8  | 1381.1   | 175576     | 99.398 ng/ml  |
| Amphetamine         | 3.107 | 1686232 | 11499.4  | 51.4  | 868.9    | 332425     | 107.695 ng/ml |
| Benzoylcegonine     | 3.911 | 29242   | 9286.0   | 8.4   | 71.0     | 11362      | 92.101 ng/ml  |
| Buprenorphine       | 5.693 | 14698   | 585.7    | 16.4  | 352.2    | 53728      | 9.340 ng/ml   |
| Bupropion           | 4.809 | 1011404 | 58904.0  | 62.1  | 6098.1   | 426514     | 100.040 ng/ml |
| Carisoprodol        | 5.728 | 564116  | 5580.6   | 63.9  | 2135.4   | 286846     | 97.751 ng/ml  |
| Citalopram          | 5.251 | 753912  | 441.4    | 37.7  | 248997.9 | 332431     | 100.931 ng/ml |
| Clonazepam          | 5.622 | 329748  | 478573.1 | 34.6  | 2708.8   | 67539      | 104.925 ng/ml |
| Cocaine             | 4.291 | 741610  | 52664.9  | 47.5  | 114235.9 | 620550     | 97.755 ng/ml  |
| Codeine             | 2.633 | 114750  | 17106.5  | 97.8  | 46035.1  | 54289      | 101.902 ng/ml |
| Cyclobenzaprine     | 5.630 | 566493  | 245435.6 | 9.3   | 1034.0   | 250970     | 99.453 ng/ml  |
| Dextromethorphan    | 5.295 | 485414  | 414880.8 | 76.1  | 4788.8   | 235511     | 99.013 ng/ml  |
| Dextrorphan         | 4.151 | 339905  | 644.0    | 213.2 | 110694.9 | 395915     | 96.929 ng/ml  |
| Diazepam            | 5.947 | 416130  | 4119.7   | 87.2  | 8735.4   | 198750     | 98.735 ng/ml  |
| Dihydrocodeine      | 2.606 | 278800  | 53215.8  | 74.6  | 15312.5  | 173453     | 104.703 ng/ml |
| Diphenhydramine     | 5.321 | 2184763 | 49729.8  | 35.4  | 1239.6   | 1246266    | 93.571 ng/ml  |
| Doxylamine          | 4.558 | 2456511 | 206442.6 | 93.6  | 232233.5 | 1087348    | 99.282 ng/ml  |
| EDDP                | 5.290 | 224232  | 1456.4   | 254.7 | 7503.7   | 273584     | 97.397 ng/ml  |
| Fentanyl            | 5.112 | 78349   | 4329.8   | 66.0  | 51937.6  | 407447     | 9.512 ng/ml   |
| Fluoxetine          | 5.715 | 661718  | 6987.9   | 8.6   | 771.7    | 285806     | 96.553 ng/ml  |
| Hydrocodone         | 3.058 | 354328  | 529.5    | 44.3  | 805.1    | 226935     | 103.792 ng/ml |
| Hydromorphone       | 1.663 | 191830  | 6037.1   | 85.1  | 13513.6  | 81623      | 93.710 ng/ml  |
| Ketamine            | 4.071 | 780896  | 1052.7   | 33.8  | 3923.8   | 391547     | 100.169 ng/ml |
| Lamotrigine         | 4.314 | 77588   | 2644.4   | 88.5  | 2077.4   | 235511     | 82.316 ng/ml  |
| Lorazepam           | 5.745 | 175696  | 2127.8   | 64.7  | 656.5    | 198750     | 70.100 ng/ml  |
| Meprobamate         | 4.932 | 436523  | 175244.0 | 30.4  | 5713.3   | 214670     | 97.690 ng/ml  |
| Methadone           | 5.664 | 1137508 | 32794.8  | 60.0  | 24736.2  | 618810     | 97.745 ng/ml  |
| Methamphetamine     | 3.269 | 1529735 | 705.6    | 39.8  | 805.3    | 544957     | 105.242 ng/ml |
| Metoprolol          | 4.354 | 209887  | 2392.8   | 98.8  | 5895.5   | 1087348    | 103.014 ng/ml |

# AM #28 Multi-Drug Quant. Results

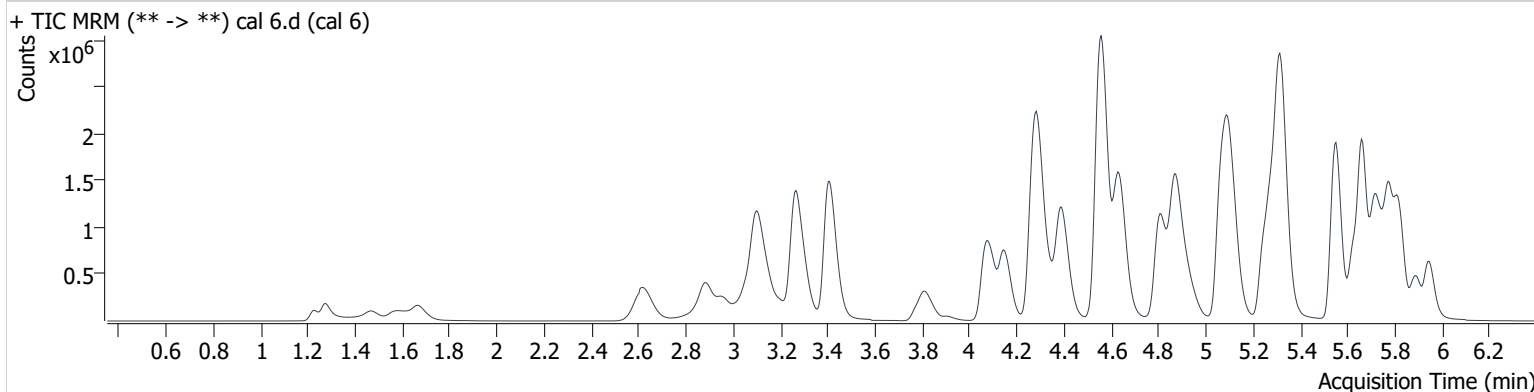
| Name                 | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|----------------------|-------|---------|-----------|-------|----------|------------|---------------|
| Mirtazapine          | 4.635 | 1481678 | 5555.0    | 50.4  | 47679.9  | 618810     | 96.139 ng/ml  |
| Mitragynine          | 5.245 | 181331  | 142031.6  | 37.9  | 65343.9  | 618810     | 95.491 ng/ml  |
| Morphine             | 1.227 | 50356   | 128293.7  | 30.8  | 4668.1   | 4039       | 100.156 ng/ml |
| Norbuprenorphine     | 5.024 | 2295    | 2313.1    | 103.8 | 1695.3   | 12864      | 10.041 ng/ml  |
| Nordiazepam          | 5.892 | 417129  | 424162.9  | 56.1  | 3204.9   | 144666     | 100.669 ng/ml |
| Norfentanyl          | 4.112 | 149511  | 25613.9   | 40.9  | 2298.5   | 688200     | 9.666 ng/ml   |
| Norhydrocodone       | 3.110 | 19874   | 5332.9    | 40.3  | 509.7    | 63482      | 109.133 ng/ml |
| Noroxycodone         | 2.962 | 272071  | 404.2     | 46.9  | 640.1    | 97581      | 103.003 ng/ml |
| O-desmethyl-tramadol | 3.410 | 1838613 | 2202.7    | 6.4   | 133.7    | 1016338    | 95.889 ng/ml  |
| Oxazepam             | 5.758 | 353265  | 10299.2   | 68.0  | 1555.5   | 214838     | 107.590 ng/ml |
| Oxycodone            | 2.884 | 566619  | 1416.0    | 34.6  | 977.7    | 310857     | 100.907 ng/ml |
| Oxymorphone          | 1.465 | 156165  | 619809.5  | 50.0  | 391374.1 | 57991      | 108.247 ng/ml |
| Phentermine          | 3.818 | 479029  | 2801.5    | 5.2   | 635.8    | 541099     | 105.297 ng/ml |
| Promethazine         | 5.558 | 1077987 | 19956.1   | 32.4  | 6177.3   | 504066     | 93.890 ng/ml  |
| Quetiapine           | 5.539 | 762857  | 2277893.0 | 62.3  | 8069.7   | 120895     | 103.327 ng/ml |
| Sertraline           | 5.777 | 288661  | 68646.5   | 93.2  | 203189.2 | 131328     | 97.534 ng/ml  |
| Temazepam            | 5.819 | 1053922 | 5259.4    | 28.3  | 2208.9   | 497222     | 95.598 ng/ml  |
| Tramadol             | 4.273 | 1857633 | 92060.4   | 3.4   | 667.2    | 1059923    | 100.847 ng/ml |
| Trazodone            | 5.101 | 969415  | 1011.7    | 81.8  | 1473.0   | 431956     | 98.656 ng/ml  |
| Venlafaxine          | 5.073 | 1651827 | 2104.2    | 36.4  | 1527.7   | 873617     | 95.660 ng/ml  |
| Zolpidem             | 4.873 | 1655505 | 183623.3  | 28.2  | 5438.2   | 805496     | 99.394 ng/ml  |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 6.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 6         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-F1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 5:53:03 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.   | S/N      | Ratio | S/N       | ISTD Resp. | Final Conc.   |
|---------------------|-------|---------|----------|-------|-----------|------------|---------------|
| 6-MAM               | 3.173 | 43640   | 3711.7   | 70.5  | 2883.3    | 49914      | 25.357 ng/ml  |
| 7-aminoclonazepam   | 4.287 | 640328  | 62404.3  | 75.2  | 1216.2    | 124326     | 247.493 ng/ml |
| a-hydroxyalprazolam | 5.699 | 121369  | 1764.6   | 62.0  | 1155.4    | 27116      | 241.934 ng/ml |
| alpha-PVP           | 4.392 | 2344989 | 25401.5  | 53.3  | 10652.8   | 411598     | 247.785 ng/ml |
| Alprazolam          | 5.777 | 1134215 | 6767.1   | 97.1  | 1889.2    | 139777     | 248.548 ng/ml |
| Amphetamine         | 3.107 | 3294629 | 24967.6  | 51.0  | 26038.7   | 282687     | 250.435 ng/ml |
| Benzoylcegonine     | 3.911 | 71220   | 41036.4  | 8.0   | 2125.1    | 10388      | 244.455 ng/ml |
| Buprenorphine       | 5.693 | 34964   | 40838.7  | 16.6  | 7334.3    | 47550      | 25.019 ng/ml  |
| Bupropion           | 4.809 | 2374612 | 19566.7  | 61.9  | 2418.4    | 398700     | 251.962 ng/ml |
| Carisoprodol        | 5.728 | 1030033 | 4390.0   | 64.3  | 2475.3    | 203465     | 251.913 ng/ml |
| Citalopram          | 5.251 | 1633591 | 30072.9  | 37.7  | 433.4     | 286706     | 254.260 ng/ml |
| Clonazepam          | 5.617 | 563792  | 27539.7  | 34.8  | 25160.0   | 48143      | 253.219 ng/ml |
| Cocaine             | 4.291 | 1608906 | 2071.0   | 47.1  | 1057858.5 | 527220     | 249.886 ng/ml |
| Codeine             | 2.633 | 241939  | 5304.9   | 96.4  | 40432.4   | 45272      | 258.173 ng/ml |
| Cyclobenzaprine     | 5.630 | 1168853 | 599036.3 | 9.4   | 2767.1    | 207245     | 248.787 ng/ml |
| Dextromethorphan    | 5.295 | 872874  | 2663.9   | 77.4  | 147310.6  | 164626     | 254.963 ng/ml |
| Dextrorphan         | 4.151 | 638422  | 230859.1 | 212.4 | 1188.6    | 286305     | 251.861 ng/ml |
| Diazepam            | 5.947 | 874453  | 3935.4   | 87.6  | 3494.1    | 168022     | 246.028 ng/ml |
| Dihydrocodeine      | 2.606 | 587282  | 1015.2   | 72.5  | 36216.4   | 152009     | 252.936 ng/ml |
| Diphenhydramine     | 5.321 | 4814262 | 4937.6   | 34.5  | 11188.3   | 1051709    | 243.184 ng/ml |
| Doxylamine          | 4.558 | 5638462 | 4101.2   | 93.0  | 437429.3  | 978654     | 253.577 ng/ml |
| EDDP                | 5.284 | 620628  | 18820.2  | 248.4 | 5831.5    | 294498     | 250.732 ng/ml |
| Fentanyl            | 5.117 | 189311  | 1517.9   | 66.3  | 207392.1  | 377977     | 24.770 ng/ml  |
| Fluoxetine          | 5.710 | 1129511 | 54765.3  | 8.3   | 1677.4    | 189518     | 248.366 ng/ml |
| Hydrocodone         | 3.058 | 734864  | 1085.5   | 45.1  | 535.8     | 198033     | 248.795 ng/ml |
| Hydromorphone       | 1.668 | 429092  | 28274.8  | 78.1  | 43133.9   | 69334      | 247.325 ng/ml |
| Ketamine            | 4.071 | 1800056 | 152103.0 | 34.0  | 962.1     | 358779     | 252.828 ng/ml |
| Lamotrigine         | 4.314 | 151154  | 3210.0   | 88.2  | 3593.6    | 164626     | 230.429 ng/ml |
| Lorazepam           | 5.745 | 227624  | 5175.6   | 65.8  | 445.9     | 168022     | 108.364 ng/ml |
| Meprobamate         | 4.932 | 866254  | 1677.4   | 30.4  | 771.9     | 170028     | 245.411 ng/ml |
| Methadone           | 5.664 | 2616306 | 227891.1 | 60.5  | 4818.5    | 561977     | 247.242 ng/ml |
| Methamphetamine     | 3.269 | 3066744 | 19806.4  | 39.7  | 1720.6    | 461415     | 266.459 ng/ml |
| Metoprolol          | 4.354 | 441641  | 576990.2 | 98.1  | 16520.0   | 978654     | 242.495 ng/ml |



# AM #28 Multi-Drug Quant. Results

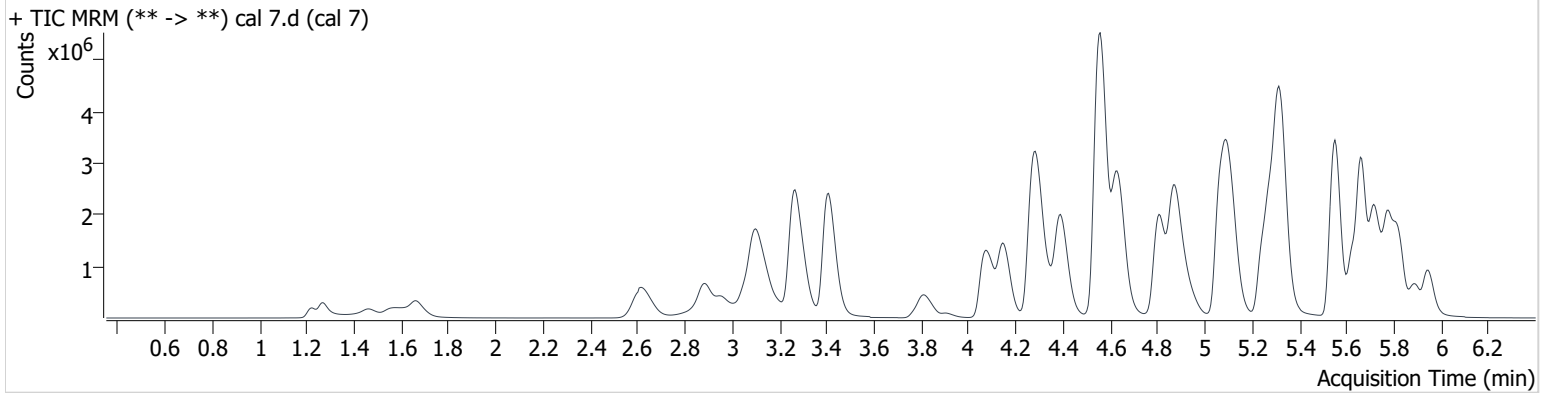
| Name                 | RT    | Resp.   | S/N       | Ratio | S/N       | ISTD Resp. | Final Conc.   |
|----------------------|-------|---------|-----------|-------|-----------|------------|---------------|
| Mirtazapine          | 4.635 | 3460276 | 103280.5  | 49.8  | 139134.7  | 561977     | 246.802 ng/ml |
| Mitragynine          | 5.240 | 432019  | 2107.0    | 37.0  | 222996.1  | 561977     | 251.166 ng/ml |
| Morphine             | 1.227 | 102195  | 158779.2  | 30.9  | 175.5     | 3238       | 254.496 ng/ml |
| Norbuprenorphine     | 5.024 | 5478    | 1268.3    | 104.7 | 5373.2    | 12263      | 25.525 ng/ml  |
| Nordiazepam          | 5.892 | 799697  | 542393.9  | 55.6  | 238656.7  | 110806     | 252.862 ng/ml |
| Norfentanyl          | 4.112 | 303051  | 725.6     | 40.6  | 2092.6    | 529564     | 25.447 ng/ml  |
| Norhydrocodone       | 3.110 | 50790   | 3305.8    | 44.0  | 479.3     | 53448      | 329.304 ng/ml |
| Noroxycodone         | 2.962 | 547886  | 1901.1    | 48.0  | 2043.3    | 80486      | 252.421 ng/ml |
| O-desmethyl-tramadol | 3.412 | 4299436 | 303580.0  | 6.3   | 31917.9   | 931905     | 243.973 ng/ml |
| Oxazepam             | 5.752 | 469359  | 5719.6    | 69.8  | 3313.3    | 119087     | 260.673 ng/ml |
| Oxycodone            | 2.884 | 1325023 | 11235.2   | 34.6  | 2472.1    | 284364     | 259.186 ng/ml |
| Oxymorphone          | 1.465 | 353930  | 879770.6  | 50.3  | 772334.5  | 54477      | 262.961 ng/ml |
| Phentermine          | 3.818 | 1002240 | 6447.8    | 5.2   | 1595.2    | 474696     | 252.723 ng/ml |
| Promethazine         | 5.558 | 2176634 | 3729.8    | 31.4  | 16093.1   | 386309     | 246.714 ng/ml |
| Quetiapine           | 5.539 | 1722144 | 346079.4  | 61.5  | 1029101.6 | 108616     | 261.037 ng/ml |
| Sertraline           | 5.777 | 503561  | 606.9     | 93.7  | 4204445.6 | 88923      | 251.319 ng/ml |
| Temazepam            | 5.819 | 2083894 | 4315.7    | 28.4  | 1730.8    | 378409     | 247.939 ng/ml |
| Tramadol             | 4.277 | 4100207 | 213674.6  | 3.5   | 1773.0    | 957496     | 247.840 ng/ml |
| Trazodone            | 5.106 | 2210394 | 174356.6  | 81.8  | 662.8     | 386116     | 252.072 ng/ml |
| Venlafaxine          | 5.073 | 3769150 | 7611.4    | 36.2  | 4587.3    | 778038     | 244.454 ng/ml |
| Zolpidem             | 4.873 | 3817821 | 1000455.4 | 28.3  | 1408.1    | 728614     | 253.846 ng/ml |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 7.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 7         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-G1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 6:03:51 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.    | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|---------------------|-------|----------|-----------|-------|----------|------------|---------------|
| 6-MAM               | 3.173 | 83242    | 3864.4    | 71.2  | 626.5    | 47908      | 50.397 ng/ml  |
| 7-aminoclonazepam   | 4.287 | 823175   | 28504.3   | 75.2  | 9275.8   | 90752      | 436.544 ng/ml |
| a-hydroxyalprazolam | 5.699 | 161841   | 2339.8    | 61.0  | 1055.1   | 18154      | 482.516 ng/ml |
| alpha-PVP           | 4.392 | 4229929  | 31140.2   | 53.4  | 133305.1 | 368827     | 498.539 ng/ml |
| Alprazolam          | 5.777 | 1714468  | 6539.6    | 96.1  | 14193.8  | 104904     | 500.834 ng/ml |
| Amphetamine         | 3.107 | 5127490  | 1332.3    | 51.2  | 945.3    | 254483     | 434.634 ng/ml |
| Benzoylcegonine     | 3.906 | 143145   | 21605.2   | 8.2   | 15780.2  | 10613      | 480.386 ng/ml |
| Buprenorphine       | 5.693 | 59777    | 15830.8   | 16.7  | 1259.6   | 34049      | 59.664 ng/ml  |
| Bupropion           | 4.809 | 4377253  | 35525.4   | 61.2  | 73003.8  | 374816     | 494.497 ng/ml |
| Carisoprodol        | 5.728 | 1428090  | 6609.1    | 64.0  | 50788.8  | 141335     | 502.979 ng/ml |
| Citalopram          | 5.251 | 2760260  | 2334.6    | 37.5  | 283.7    | 244808     | 503.589 ng/ml |
| Clonazepam          | 5.617 | 742677   | 90851.1   | 34.1  | 114638.6 | 35268      | 456.221 ng/ml |
| Cocaine             | 4.291 | 2671953  | 2287.5    | 46.6  | 909.5    | 435543     | 502.516 ng/ml |
| Codeine             | 2.633 | 400434   | 54357.9   | 98.2  | 13026.4  | 39478      | 490.331 ng/ml |
| Cyclobenzaprine     | 5.630 | 2195383  | 1041647.4 | 9.3   | 12124.3  | 192391     | 503.558 ng/ml |
| Dextromethorphan    | 5.295 | 1686873  | 96385.2   | 76.5  | 982049.7 | 162608     | 498.999 ng/ml |
| Dextrorphan         | 4.151 | 1398972  | 1452.5    | 216.3 | 328061.1 | 319192     | 495.101 ng/ml |
| Diazepam            | 5.947 | 1415574  | 10668.7   | 87.2  | 12524.3  | 134756     | 497.004 ng/ml |
| Dihydrocodeine      | 2.601 | 1101535  | 764.6     | 74.0  | 32302.9  | 151134     | 477.967 ng/ml |
| Diphenhydramine     | 5.327 | 8328511  | 18105.1   | 34.6  | 55580.2  | 892198     | 495.174 ng/ml |
| Doxylamine          | 4.558 | 10778328 | 491640.6  | 93.3  | 6939.0   | 936751     | 506.663 ng/ml |
| EDDP                | 5.284 | 1235563  | 75690.3   | 250.4 | 4608.5   | 292615     | 502.569 ng/ml |
| Fentanyl            | 5.117 | 335939   | 1943.3    | 67.5  | 141262.7 | 320544     | 51.826 ng/ml  |
| Fluoxetine          | 5.710 | 2506031  | 16560.7   | 8.2   | 135810.4 | 212449     | 491.459 ng/ml |
| Hydrocodone         | 3.058 | 1391910  | 1481.8    | 44.6  | 940.4    | 187548     | 499.129 ng/ml |
| Hydromorphone       | 1.663 | 988837   | 276.0     | 76.8  | ∞        | 76237      | 518.720 ng/ml |
| Ketamine            | 4.071 | 3155926  | 2162.1    | 33.9  | 27136.1  | 324079     | 491.249 ng/ml |
| Lamotrigine         | 4.319 | 217444   | 3123.7    | 88.2  | 2444.3   | 162608     | 335.856 ng/ml |
| Lorazepam           | 5.745 | 252492   | 53904.2   | 64.0  | 2467.0   | 134756     | 150.552 ng/ml |
| Meprobamate         | 4.932 | 1333583  | 1157.3    | 30.0  | 1142.1   | 130809     | 491.510 ng/ml |
| Methadone           | 5.664 | 4708229  | 903971.2  | 60.6  | 78424.4  | 504257     | 495.653 ng/ml |
| Methamphetamine     | 3.271 | 5758112  | 32256.1   | 39.6  | 3374.6   | 469129     | 502.769 ng/ml |
| Metoprolol          | 4.354 | 697928   | 360190.9  | 98.1  | 11904.5  | 936751     | 401.167 ng/ml |

# AM #28 Multi-Drug Quant. Results

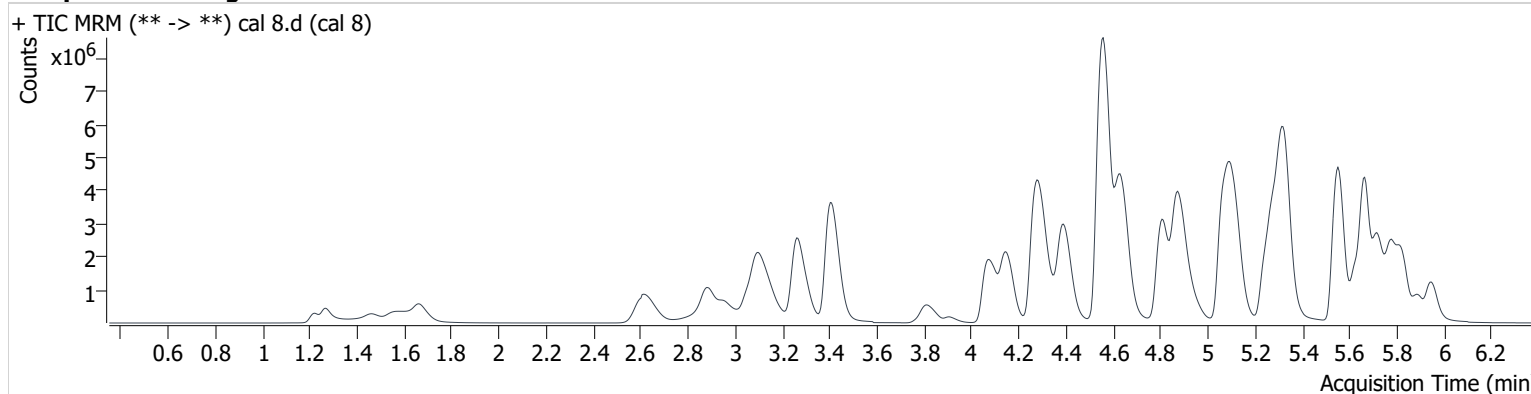
| Name                 | RT    | Resp.   | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.   |
|----------------------|-------|---------|-----------|-------|----------|------------|---------------|
| Mirtazapine          | 4.637 | 6373305 | 553287.1  | 49.5  | 8592.0   | 504257     | 506.320 ng/ml |
| Mitragynine          | 5.240 | 751531  | 414292.4  | 37.5  | 359897.7 | 504257     | 487.312 ng/ml |
| Morphine             | 1.222 | 187687  | 2405650.9 | 31.0  | 12031.2  | 3027       | 500.466 ng/ml |
| Norbuprenorphine     | 5.024 | 10949   | 6806.9    | 100.0 | 1291.7   | 12108      | 51.932 ng/ml  |
| Nordiazepam          | 5.892 | 1144771 | 103030.8  | 56.1  | 346418.5 | 82189      | 488.556 ng/ml |
| Norfentanyl          | 4.112 | 560707  | 11607.9   | 41.0  | 10487.5  | 493474     | 50.516 ng/ml  |
| Norhydrocodone       | 3.110 | 108933  | 395.3     | 42.9  | 190.9    | 51460      | 732.389 ng/ml |
| Noroxycodone         | 2.962 | 910152  | 2108.7    | 47.8  | 1059.2   | 66848      | 505.523 ng/ml |
| O-desmethyl-tramadol | 3.411 | 7861019 | 158158.1  | 6.2   | 28172.1  | 837203     | 496.156 ng/ml |
| Oxazepam             | 5.752 | 451890  | 11028.1   | 68.8  | 2552.2   | 61072      | 491.125 ng/ml |
| Oxycodone            | 2.884 | 2367873 | 10320.4   | 34.2  | 1694.2   | 265334     | 497.121 ng/ml |
| Oxymorphone          | 1.460 | 627689  | 1272827.3 | 52.3  | 669447.0 | 50098      | 508.311 ng/ml |
| Phentermine          | 3.818 | 1656899 | 5447.4    | 5.1   | 1266.7   | 432600     | 459.395 ng/ml |
| Promethazine         | 5.558 | 4785249 | 463250.9  | 31.0  | 10463.3  | 422464     | 495.567 ng/ml |
| Quetiapine           | 5.539 | 2892577 | 171853.6  | 61.6  | 758023.0 | 102285     | 466.311 ng/ml |
| Sertraline           | 5.782 | 964687  | 36273.4   | 93.6  | 946613.1 | 84415      | 507.188 ng/ml |
| Temazepam            | 5.819 | 3042447 | 37314.7   | 27.9  | 13451.4  | 262160     | 522.200 ng/ml |
| Tramadol             | 4.275 | 6977571 | 899284.1  | 3.4   | 302.3    | 865612     | 467.412 ng/ml |
| Trazodone            | 5.106 | 3871753 | 180721.3  | 80.9  | 110756.2 | 342128     | 498.565 ng/ml |
| Venlafaxine          | 5.068 | 6795967 | 3247.6    | 35.6  | 3112.3   | 684593     | 500.499 ng/ml |
| Zolpidem             | 4.873 | 6847972 | 665185.8  | 28.0  | 8131.0   | 664884     | 499.238 ng/ml |

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 2-20-2020\QuantResults\mdq.batch.bin  
**Calibration Last Update** 2/24/2020 2:56:05 PM

|                         |                      |                  |               |
|-------------------------|----------------------|------------------|---------------|
| <b>Instrument</b>       | 69679                | <b>Data File</b> | cal 8.d       |
| <b>Type</b>             | Cal                  | <b>Sample</b>    | cal 8         |
| <b>Acq. Method</b>      | mdq p1 cda 121818.m  | <b>Operator</b>  | Britany Wylie |
| <b>Sample Position</b>  | P2-H1                | <b>Comment</b>   |               |
| <b>Injection Volume</b> | 2                    |                  |               |
| <b>Acq. Date-Time</b>   | 2/20/2020 6:25:21 PM |                  |               |

**Sample Chromatogram**



| Name                | RT    | Resp.    | S/N       | Ratio | S/N      | ISTD Resp. | Final Conc.    |
|---------------------|-------|----------|-----------|-------|----------|------------|----------------|
| 6-MAM               | 3.173 | 151502   | 3440.0    | 69.7  | 223563.9 | 40197      | 109.324 ng/ml  |
| 7-aminoclonazepam   | 4.282 | 824806   | 25464.3   | 70.3  | 21714.5  | 56574      | 702.204 ng/ml  |
| a-hydroxyalprazolam | 5.699 | 208602   | 332.4     | 59.9  | 993.6    | 11441      | 987.503 ng/ml  |
| alpha-PVP           | 4.392 | 6749015  | 9589.8    | 53.6  | 1511.6   | 290985     | 1007.974 ng/ml |
| Alprazolam          | 5.777 | 2501676  | 1311.7    | 95.8  | 43052.6  | 76658      | 1000.308 ng/ml |
| Amphetamine         | 3.107 | 6389349  | 1741.1    | 50.8  | 28088.1  | 172530     | 800.790 ng/ml  |
| Benzoylcegonine     | 3.906 | 305440   | 360225.2  | 8.4   | 21318.3  | 10485      | 1036.926 ng/ml |
| Buprenorphine       | 5.693 | 86955    | 2373.0    | 15.9  | 10680.7  | 22255      | 132.723 ng/ml  |
| Bupropion           | 4.809 | 7065852  | 30961.4   | 60.9  | 1924.9   | 310567     | 963.797 ng/ml  |
| Carisoprodol        | 5.728 | 1863342  | 157948.9  | 64.4  | 4052.4   | 93054      | 996.960 ng/ml  |
| Citalopram          | 5.246 | 3800691  | 1109.6    | 37.9  | 665.9    | 171345     | 991.135 ng/ml  |
| Clonazepam          | 5.612 | 886359   | 54497.7   | 34.8  | 131695.9 | 23610      | 814.214 ng/ml  |
| Cocaine             | 4.296 | 3993977  | 1220129.4 | 46.7  | 254409.4 | 327345     | 999.600 ng/ml  |
| Codeine             | 2.638 | 588659   | 249.5     | 103.3 | 168557.2 | 31210      | 912.058 ng/ml  |
| Cyclobenzaprine     | 5.630 | 2907510  | 1302149.4 | 9.3   | 45387.7  | 128664     | 997.408 ng/ml  |
| Dextromethorphan    | 5.295 | 2218174  | 56344.8   | 76.7  | 94962.3  | 106650     | 1000.605 ng/ml |
| Dextrorphan         | 4.151 | 2255939  | 1277.5    | 216.5 | 694280.6 | 253470     | 1005.466 ng/ml |
| Diazepam            | 5.947 | 2089376  | 3570.5    | 86.7  | 13933.6  | 98236      | 1006.702 ng/ml |
| Dihydrocodeine      | 2.601 | 1789155  | 103542.8  | 74.3  | 53812.6  | 134758     | 871.415 ng/ml  |
| Diphenhydramine     | 5.327 | 11739824 | 1044901.4 | 34.2  | 26443.2  | 610500     | 1019.309 ng/ml |
| Doxylamine          | 4.558 | 17943794 | 64775.9   | 93.2  | 783669.2 | 816961     | 967.399 ng/ml  |
| EDDP                | 5.284 | 2252385  | 3816.7    | 251.9 | 196881.3 | 261292     | 1026.193 ng/ml |
| Fentanyl            | 5.117 | 543148   | 20737.2   | 69.5  | 424195.6 | 238266     | 112.723 ng/ml  |
| Fluoxetine          | 5.715 | 2942695  | 287586.9  | 8.2   | 67356.8  | 120932     | 1013.694 ng/ml |
| Hydrocodone         | 3.058 | 2347396  | 2655.0    | 44.9  | 1541.4   | 159141     | 993.535 ng/ml  |
| Hydromorphone       | 1.663 | 1738297  | 28052.3   | 82.1  | ∞        | 70287      | 989.378 ng/ml  |
| Ketamine            | 4.071 | 5156210  | 1604187.2 | 33.6  | 1724.1   | 273155     | 952.762 ng/ml  |
| Lamotrigine         | 4.319 | 267938   | 3036.6    | 88.9  | 9861.2   | 106650     | 631.484 ng/ml  |
| Lorazepam           | 5.745 | 301887   | 9767.5    | 62.9  | 11492.9  | 98236      | 248.049 ng/ml  |
| Meprobamate         | 4.937 | 1901019  | 1130026.6 | 30.4  | 28893.7  | 90363      | 1014.712 ng/ml |
| Methadone           | 5.664 | 7335505  | 27167.9   | 59.9  | 116235.0 | 385472     | 1009.993 ng/ml |
| Methamphetamine     | 3.264 | 5975761  | 4114.4    | 39.2  | 20706.3  | 254976     | 971.495 ng/ml  |
| Metoprolol          | 4.354 | 944738   | 3790.0    | 98.5  | 10316.5  | 816961     | 623.342 ng/ml  |

# AM #28 Multi-Drug Quant. Results

| Name                 | RT    | Resp.    | S/N       | Ratio | S/N       | ISTD Resp. | Final Conc.    |
|----------------------|-------|----------|-----------|-------|-----------|------------|----------------|
| Mirtazapine          | 4.635 | 10507095 | 282796.9  | 48.9  | 129466.5  | 385472     | 1091.635 ng/ml |
| Mitragynine          | 5.234 | 1153160  | 643170.1  | 37.6  | 538438.3  | 385472     | 978.560 ng/ml  |
| Morphine             | 1.222 | 302567   | 1459755.9 | 31.3  | 675205.0  | 2461       | 992.922 ng/ml  |
| Norbuprenorphine     | 5.019 | 18158    | 17401.1   | 100.3 | 2517.8    | 10823      | 96.564 ng/ml   |
| Nordiazepam          | 5.892 | 1468831  | 40789.0   | 55.2  | 95827.6   | 54529      | 945.377 ng/ml  |
| Norfentanyl          | 4.112 | 858033   | 131752.7  | 40.8  | 712.4     | 359553     | 106.087 ng/ml  |
| Norhydrocodone       | 3.110 | 203939   | 7454.7    | 42.9  | 1674.1    | 41717      | 1690.123 ng/ml |
| Noroxycodone         | 2.956 | 1437831  | 3399.6    | 48.1  | 845.9     | 54050      | 988.324 ng/ml  |
| O-desmethyl-tramadol | 3.405 | 13304653 | 645299.3  | 6.1   | 59471.6   | 692269     | 1015.159 ng/ml |
| Oxazepam             | 5.747 | 454308   | 7835.6    | 69.3  | 547.7     | 30686      | 984.687 ng/ml  |
| Oxycodone            | 2.879 | 4116511  | 6427.4    | 34.4  | 1940.0    | 231707     | 990.445 ng/ml  |
| Oxymorphone          | 1.460 | 1067636  | 3878683.9 | 50.0  | 2990.5    | 44802      | 967.933 ng/ml  |
| Phentermine          | 3.813 | 2226058  | 8722.5    | 5.1   | 4957.8    | 315797     | 846.457 ng/ml  |
| Promethazine         | 5.558 | 6737910  | 30795.1   | 31.1  | 78216.8   | 290291     | 1015.078 ng/ml |
| Quetiapine           | 5.534 | 4449956  | 872081.5  | 61.5  | 2837801.6 | 85178      | 862.244 ng/ml  |
| Sertraline           | 5.782 | 1010337  | 73983.6   | 92.5  | 11913.0   | 44215      | 1014.170 ng/ml |
| Temazepam            | 5.824 | 4187176  | 157165.7  | 27.8  | 1120.9    | 176234     | 1068.799 ng/ml |
| Tramadol             | 4.268 | 10807538 | 566183.1  | 3.3   | 1630.7    | 636871     | 985.098 ng/ml  |
| Trazodone            | 5.112 | 6034342  | 1685.0    | 80.5  | 339865.8  | 263587     | 1008.853 ng/ml |
| Venlafaxine          | 5.068 | 10800752 | 947642.1  | 35.1  | 31535.9   | 538610     | 1010.614 ng/ml |
| Zolpidem             | 4.873 | 11435080 | 710348.9  | 27.5  | 238930.8  | 561951     | 986.634 ng/ml  |