











**REVIEWED**

By Celena Shrum at 11:44 am, Nov 02, 2023

**Worklist: 6544**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-2300		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2315		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2337		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2344	1	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2359	5	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2365		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2381	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2429	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2430		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2447		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 10/31/23 Analyst: Anne Nord  
Plate lot#: 230707 Item: IDP-121-5-CDA Plate re-test: 01/07/2024

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

**Blank Blood Lot:** 23J52629 **Urine Blank lot** 8423

**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.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette 250µL blood (calibrated pipette) or 250µL hydrolyzed urine in wells of analytical (standards) plate. **Pipette ID: P31168J**
- 3. Pipette 250µL 0.5M ammonium hydroxide in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Transfer 300µL of blood+base/urine+base mixture to corresponding wells of SLE+ plate.
- 6. 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**
- 7. Wait 5 minutes.
- 8. Add 900uL ethyl acetate.
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 11. Add 900uL ethyl acetate.
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 14. Remove plate containing eluate. Add 50 ul 1% HCl in MeOH,
- 15. 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: Compounds evaluated and curve limitations.

Amphetamine 5-250 cal 7 and 8 dropped due to accuracy

Benzoyllecgonine/Cocaine breakdown product

Bromazolam

Cocaine

Duloxetine 10-100 cal 1 dropped due to poor response on qualifier ion ratio out.

Fluorofentanyl

Fentanyl

Methadone

Methamphetamine 5-500 cal 8 dropped due to accuracy

Morphine 5-500 cal 8 dropped due to accuracy

Norfentanyl 0.5-50 cal 8 dropped due to accuracy

Sertraline

Trazodone

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1			IS + Cal. 1	IS + QC_1	2315-1					
B	IS + Cal. 2	IS + QC_2			IS + Cal. 2	IS + QC_2	2344-1					
C	IS + Cal. 3	IS + QC 3			IS + Cal. 3	IS + QC 3	2365-1					
D	IS + Cal. 4	IS + QC_4			IS + Cal. 4	IS + QC_4	2381-1					
E	IS + Cal. 5	IS + QC_2			IS + Cal. 5	IS + QC_2	2359-5					
F	IS + Cal. 6				IS + Cal. 6	Negative blood	2430-1					
G	IS + Cal. 7				IS + Cal. 7	2300-1	2429-2					
H	IS + Cal. 8				IS + Cal. 8	2337-1	2447-1					

blank in front

plate position 2

c2023-\_\_\_\_-\_\_

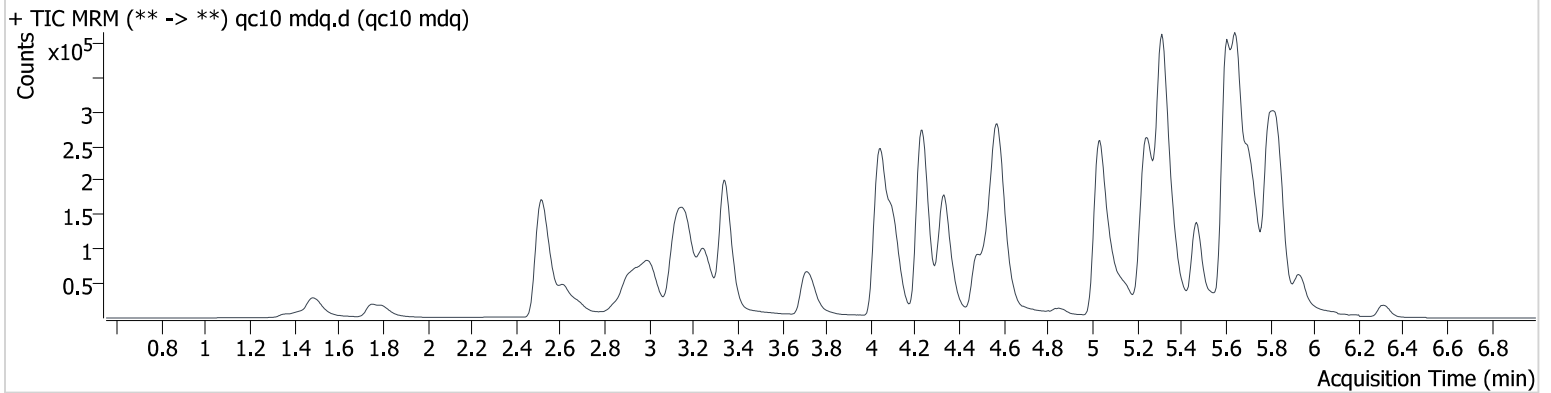
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-A6  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 5:23:13 PM  
**Sample Info.**

**Data File** qc10 mdq.d  
**Sample** qc10 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	45769	2703.4	283.05	9279.5	143329	10.722 ng/ml
Benzoylcegonine	3.827	1721	∞	44.24	88.0	5979	10.543 ng/ml
Bromazolam	5.796	11334	364.2	96.68	369.5	50726	10.413 ng/ml
Cocaine	4.338	72311	6753.1	45.10	9001.2	516754	10.434 ng/ml
Duloxetine	5.658	13464	2762.1	10.00	90.7	39674	11.369 ng/ml
Fentanyl	5.484	8335	2449.0	114.57	1495.5	404543	0.981 ng/ml
Fluorofentanyl	5.530	6927	5159.2	125.14	480.6	3977	0.962 ng/ml
Methadone	5.657	134068	5858.4	50.02	2504.8	491462	10.190 ng/ml
Methamphetamine	3.182	149240	6190.8	35.49	2490.0	399412	10.953 ng/ml
Morphine	1.422	4892	392.6	18.56	150.2	6386	10.534 ng/ml
Norfentanyl	4.050	4674	589.1	30.69	∞	516404	1.084 ng/ml
Sertraline	5.798	20509	2448.1	113.92	∞	90682	10.334 ng/ml
Trazodone	5.832	84261	∞	132.13	5304.5	433956	10.753 ng/ml

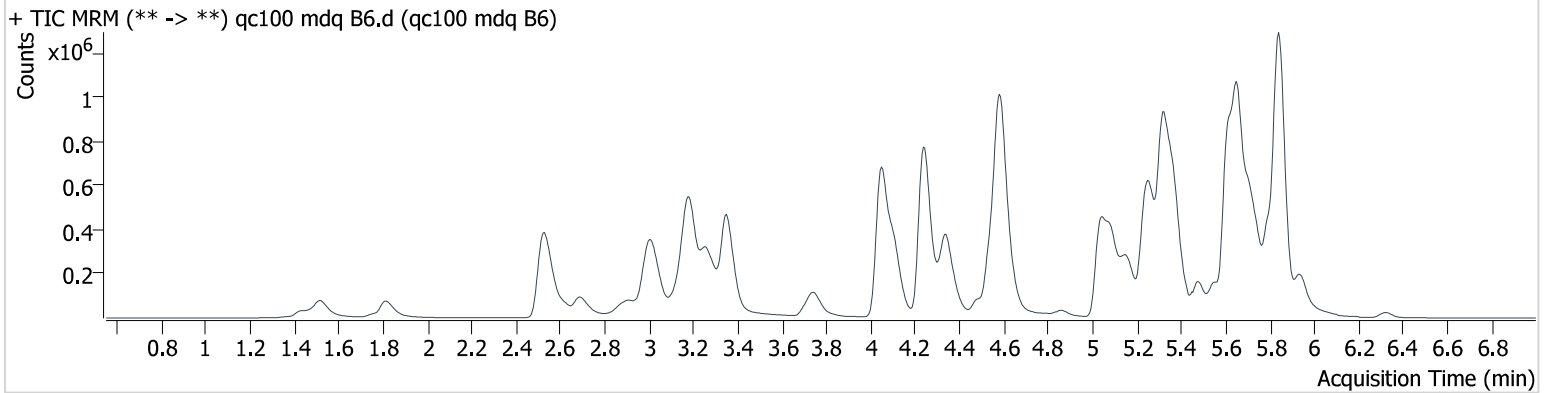
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**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-B6  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 7:51:15 PM  
**Sample Info.**

**Data File** qc100 mdq B6.d  
**Sample** qc100 mdq B6  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.004	303209	18018.4	257.63	204800.0	109345	100.497 ng/ml
Benzoylcgonine	3.827	12973	32921.7	43.40	547.2	4503	100.136 ng/ml
Bromazolam	5.791	80196	98.9	95.18	2004.7	37513	98.874 ng/ml
Cocaine	4.343	556774	73817.1	45.65	505443.9	410170	100.967 ng/ml
Duloxetine	5.658	94612	156.1	9.46	90.0	28904	104.098 ng/ml
Fentanyl	5.484	70724	8327.9	108.39	16301.4	315230	10.778 ng/ml
Fluorofentanyl	5.541	56768	31493.9	115.61	1843.3	3157	9.955 ng/ml
Methadone	5.663	1026186	51304.8	50.01	12988.8	380308	100.045 ng/ml
Methamphetamine	3.187	970312	∞	37.76	410486.9	328780	105.969 ng/ml
Morphine	1.432	37035	2602.7	16.81	883.3	4907	112.172 ng/ml
Norfentanyl	4.056	33432	10531.1	31.04	3247.9	397693	10.696 ng/ml
Sertraline	5.803	147412	48670.8	107.18	∞	67121	100.265 ng/ml
Trazodone	5.838	554177	171629.2	137.18	∞	324511	95.590 ng/ml

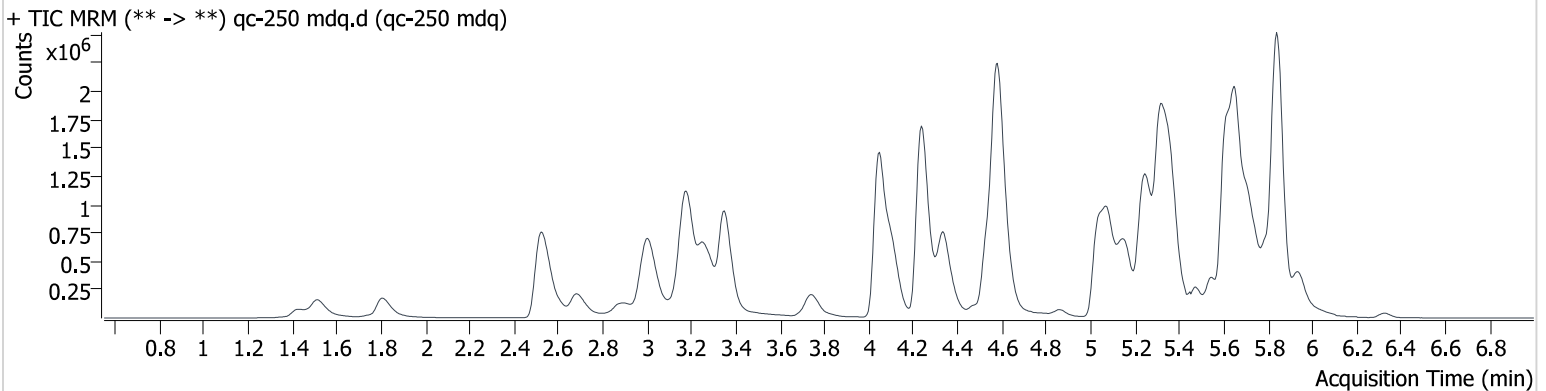
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**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-C6  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 5:31:55 PM  
**Sample Info.**

**Data File** qc-250 mdq.d  
**Sample** qc-250 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	582836	45220.1	250.66	55153.3	100384	211.474 ng/ml
Benzoylcgonine	3.827	33959	93969.3	41.53	3206.2	4973	236.553 ng/ml
Bromazolam	5.791	162364	∞	91.21	∞	27604	271.883 ng/ml
Cocaine	4.338	1374297	411596.6	45.46	∞	401998	254.241 ng/ml
Duloxetine	5.653	180555	4802.7	10.47	901.6	22131	258.492 ng/ml
Fentanyl	5.484	169889	6120.0	116.05	220468.2	321739	25.380 ng/ml
Fluorofentanyl	5.536	138914	73917.6	106.88	2668.6	2936	26.202 ng/ml
Methadone	5.657	2391285	100541.4	49.15	13669.6	362819	244.248 ng/ml
Methamphetamine	3.182	2247410	∞	37.53	37399.4	337368	242.741 ng/ml
Morphine	1.422	87816	9598.1	19.08	928.4	5672	231.097 ng/ml
Norfentanyl	4.056	71045	9221.8	29.46	∞	365491	24.831 ng/ml
Sertraline	5.803	237685	1513408.2	118.21	67320.1	42818	253.413 ng/ml
Trazodone	5.832	1138331	595574.2	137.17	144300.7	268946	237.109 ng/ml

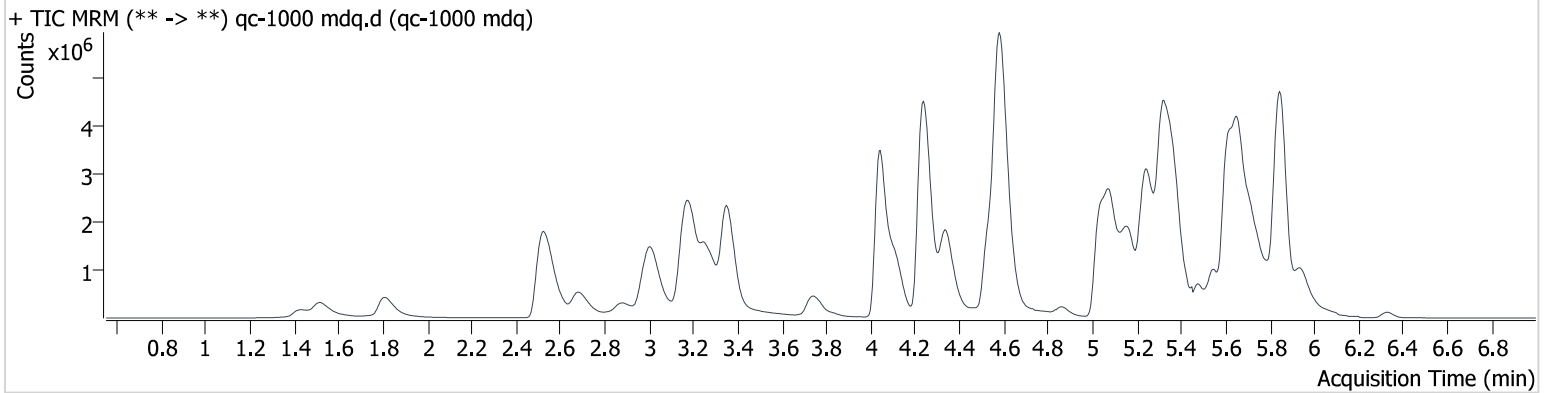
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**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-D6  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 5:40:37 PM  
**Sample Info.**

**Data File** qc-1000 mdq.d  
**Sample** qc-1000 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	1199576	70829.1	240.31	391515.2	72690	602.845 ng/ml
Benzoylcgonine	3.827	128888	225429.2	42.27	8032.9	4517	986.491 ng/ml
Bromazolam	5.791	268866	∞	94.21	∞	13870	895.840 ng/ml
Cocaine	4.338	4179969	350497.2	44.75	298122.7	304092	1022.162 ng/ml
Duloxetine	5.664	273150	∞	10.84	2634.7	7599	1136.628 ng/ml
Fentanyl	5.478	611373	∞	115.59	9035.9	291528	100.826 ng/ml
Fluorofentanyl	5.530	403151	303114.1	107.57	30427.4	1926	115.938 ng/ml
Methadone	5.662	6675985	3014106.2	48.57	62580.9	254926	970.238 ng/ml
Methamphetamine	3.182	5812711	∞	38.00	117513.4	294128	725.669 ng/ml
Morphine	1.427	214923	9117.0	19.39	2809.1	4840	664.579 ng/ml
Norfentanyl	4.050	134233	5744.9	30.58	∞	232395	73.933 ng/ml
Sertraline	5.804	359964	214458.1	107.87	∞	16873	973.896 ng/ml
Trazodone	5.838	2247369	2199218.6	141.71	366253.2	117836	1068.877 ng/ml

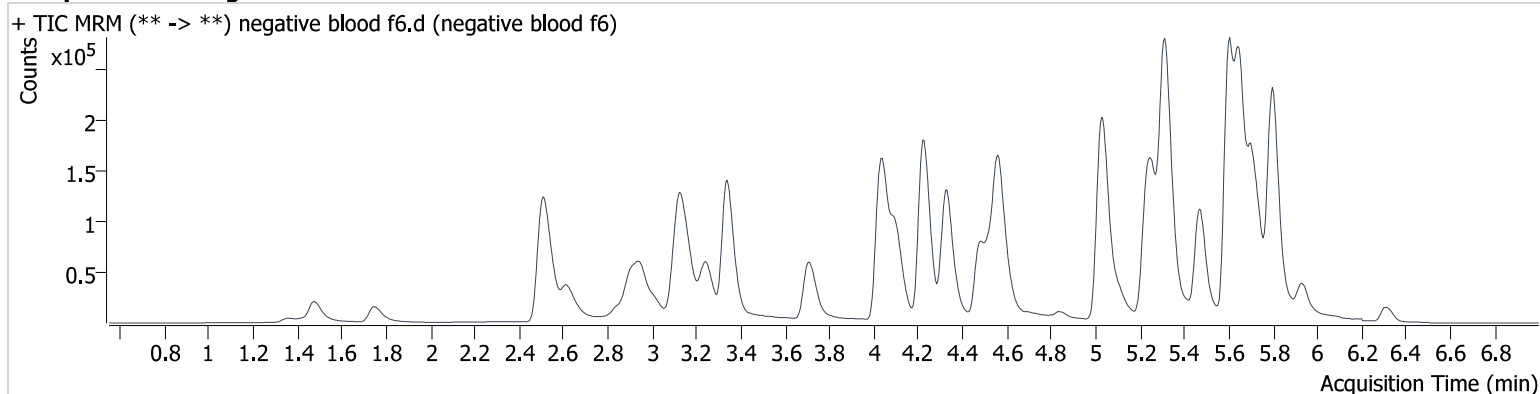
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-F6  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 5:58:03 PM  
**Sample Info.**

**Data File** negative blood f6.d  
**Sample** negative blood f6  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



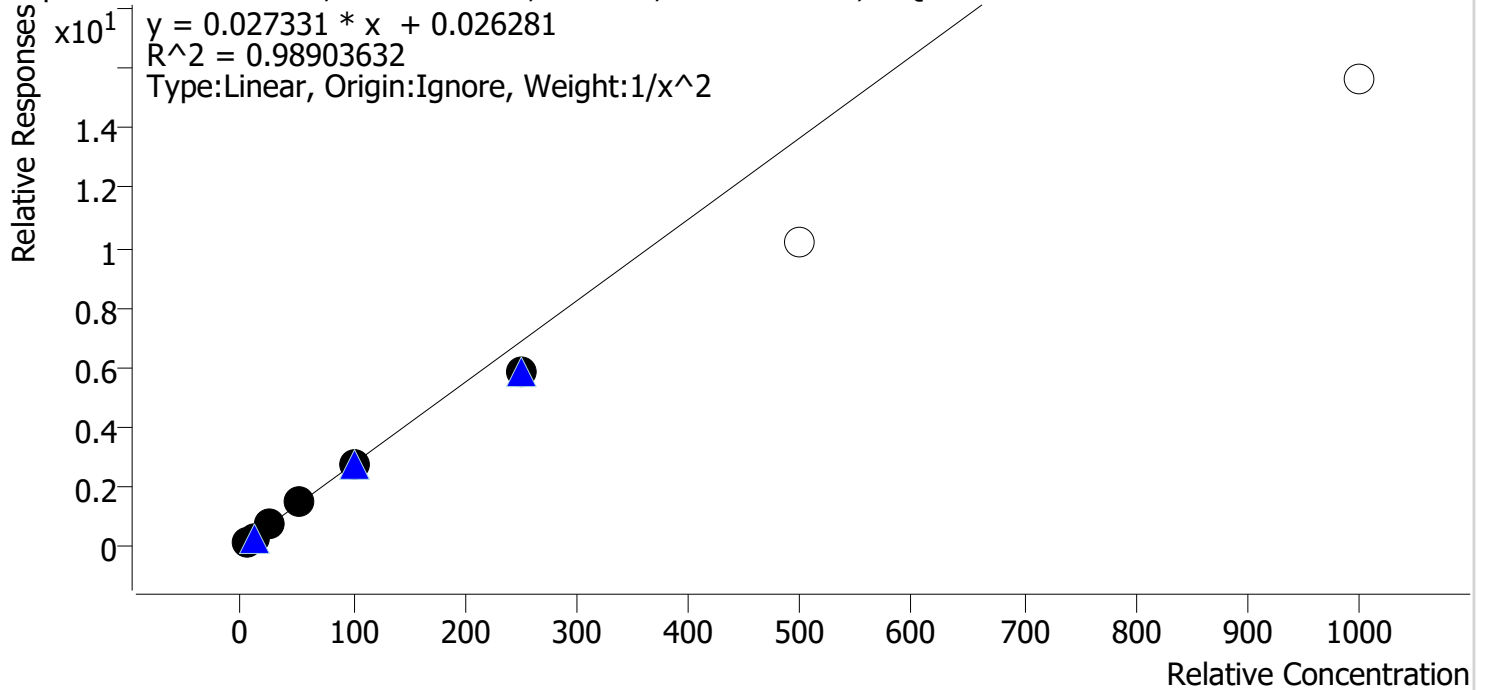


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



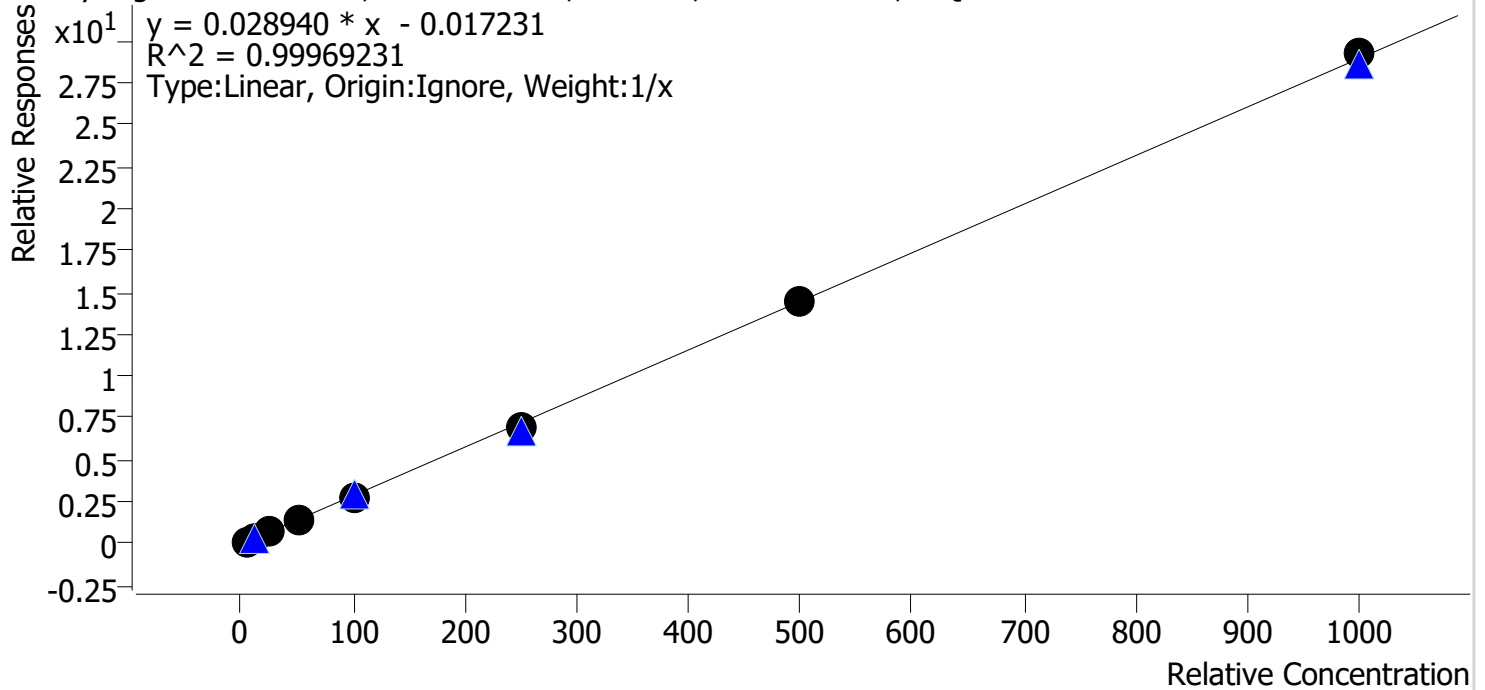
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.1
cal 2 mdq	2	✓	10.0	10.3	103.1
cal 3 mdq	3	✓	25.0	27.7	110.9
cal 4 mdq	4	✓	50.0	51.9	103.9
cal 5 mdq	5	✓	100.0	100.3	100.3
cal 6 mdq	6	✓	250.0	213.9	85.6
cal 7 mdq	7	✗	500.0	369.9	74.0
cal 8 mdq	8	✗	1000.0	571.2	57.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



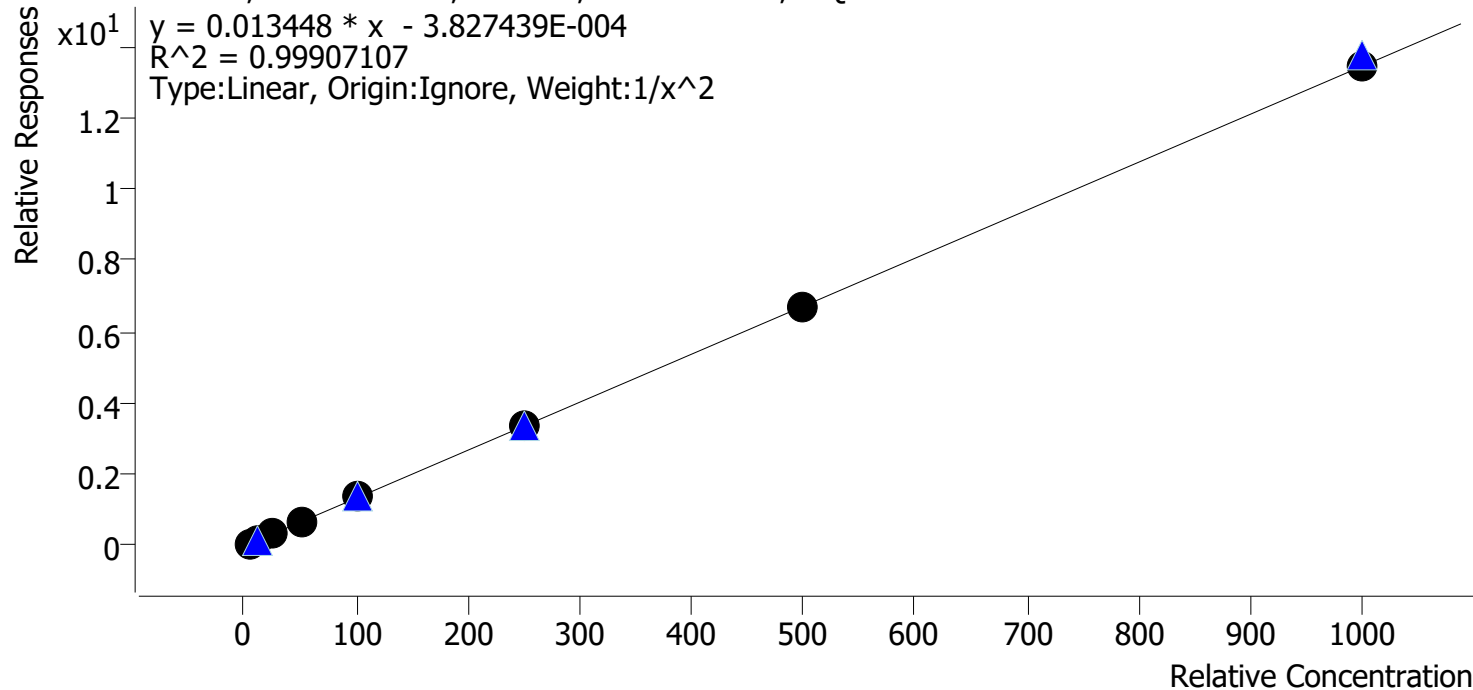
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.4
cal 2 mdq	2	✓	10.0	10.9	109.1
cal 3 mdq	3	✓	25.0	23.7	94.8
cal 4 mdq	4	✓	50.0	47.8	95.7
cal 5 mdq	5	✓	100.0	98.5	98.5
cal 6 mdq	6	✓	250.0	243.4	97.4
cal 7 mdq	7	✓	500.0	500.4	100.1
cal 8 mdq	8	✓	1000.0	1010.1	101.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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



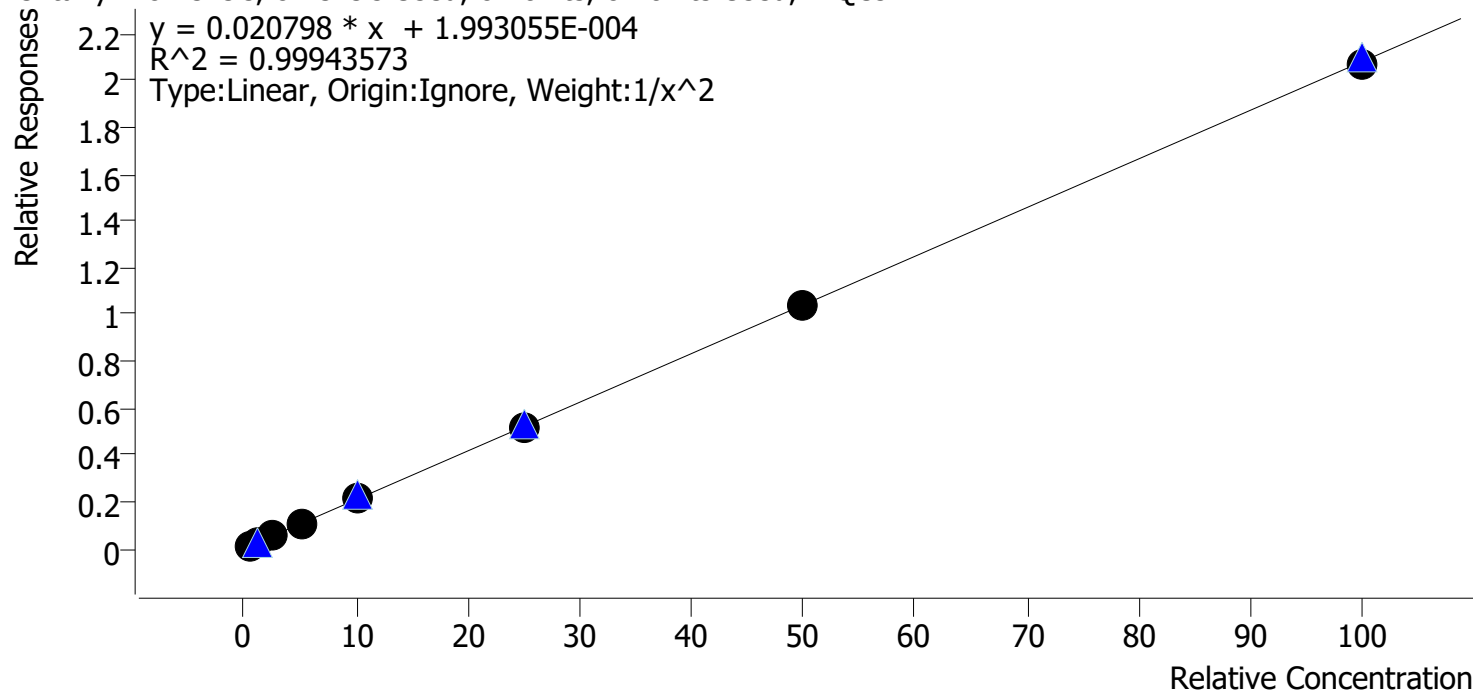
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.8
cal 2 mdq	2	✓	10.0	9.4	93.8
cal 3 mdq	3	✓	25.0	25.2	100.8
cal 4 mdq	4	✓	50.0	50.1	100.3
cal 5 mdq	5	✓	100.0	100.6	100.6
cal 6 mdq	6	✓	250.0	253.3	101.3
cal 7 mdq	7	✓	500.0	501.1	100.2
cal 8 mdq	8	✓	1000.0	1001.2	100.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\11-27-28\103123\QuantResults\11-28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

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



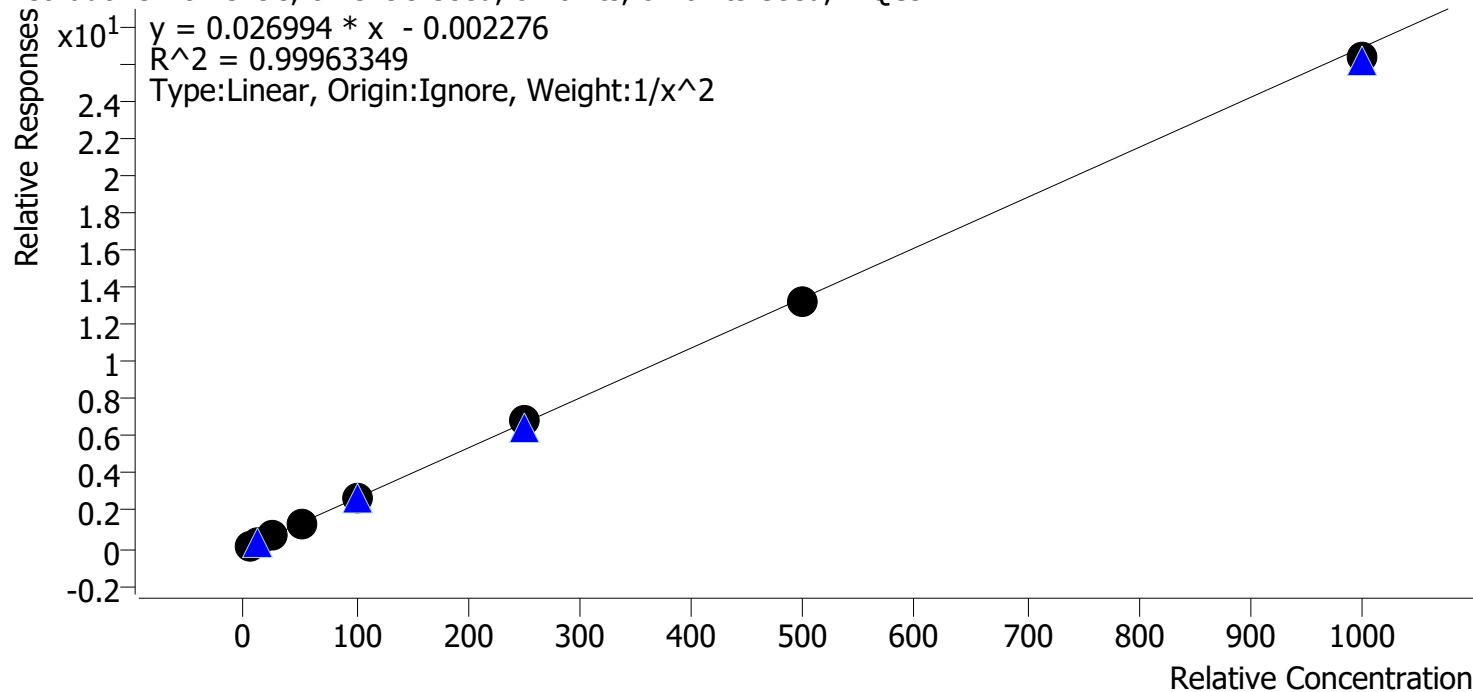
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	101.6
cal 2 mdq	2	✓	1.0	1.0	95.7
cal 3 mdq	3	✓	2.5	2.5	101.7
cal 4 mdq	4	✓	5.0	5.1	101.1
cal 5 mdq	5	✓	10.0	10.2	101.7
cal 6 mdq	6	✓	25.0	24.7	98.7
cal 7 mdq	7	✓	50.0	50.0	100.0
cal 8 mdq	8	✓	100.0	99.5	99.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



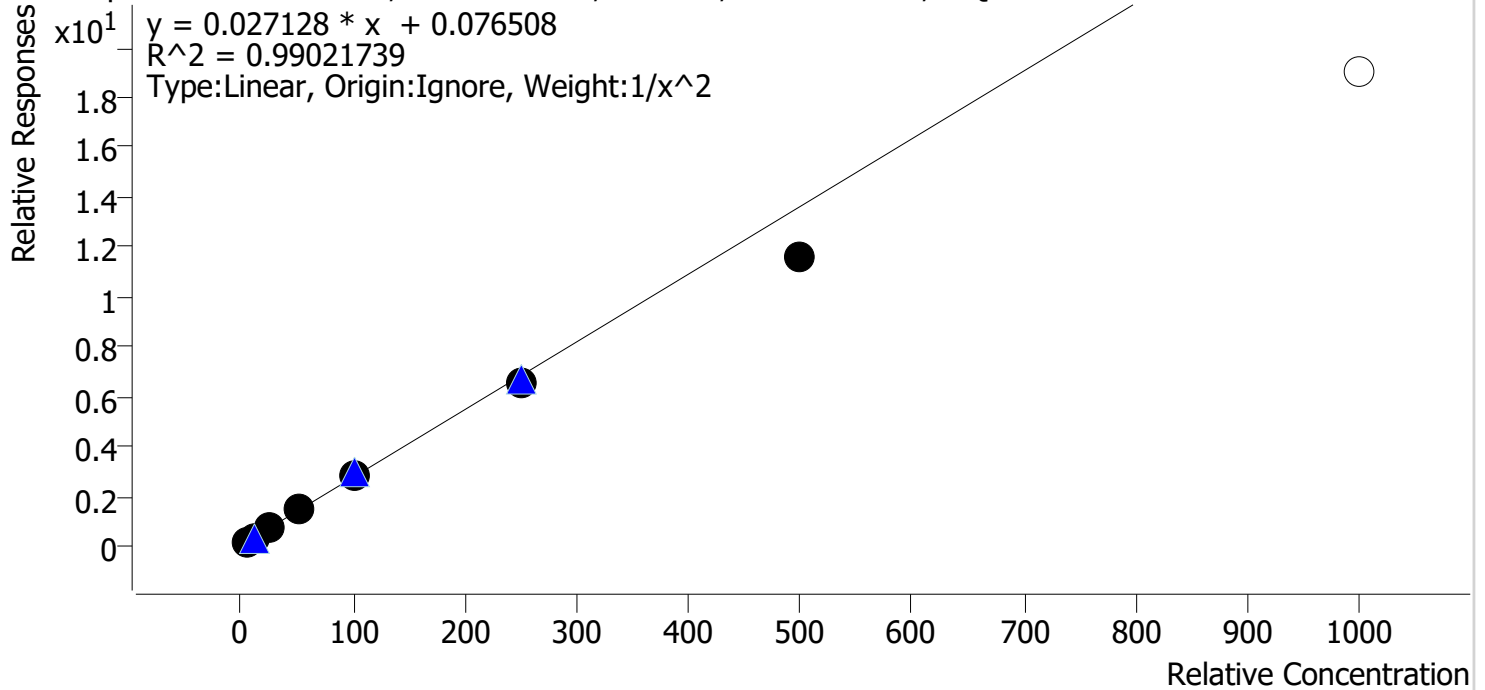
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.7
cal 2 mdq	2	✓	10.0	9.8	98.4
cal 3 mdq	3	✓	25.0	24.8	99.2
cal 4 mdq	4	✓	50.0	50.8	101.6
cal 5 mdq	5	✓	100.0	101.0	101.0
cal 6 mdq	6	✓	250.0	256.1	102.4
cal 7 mdq	7	✓	500.0	493.3	98.7
cal 8 mdq	8	✓	1000.0	979.6	98.0

# Compound Calibration Report



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**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** **Methamphetamine-D11**

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

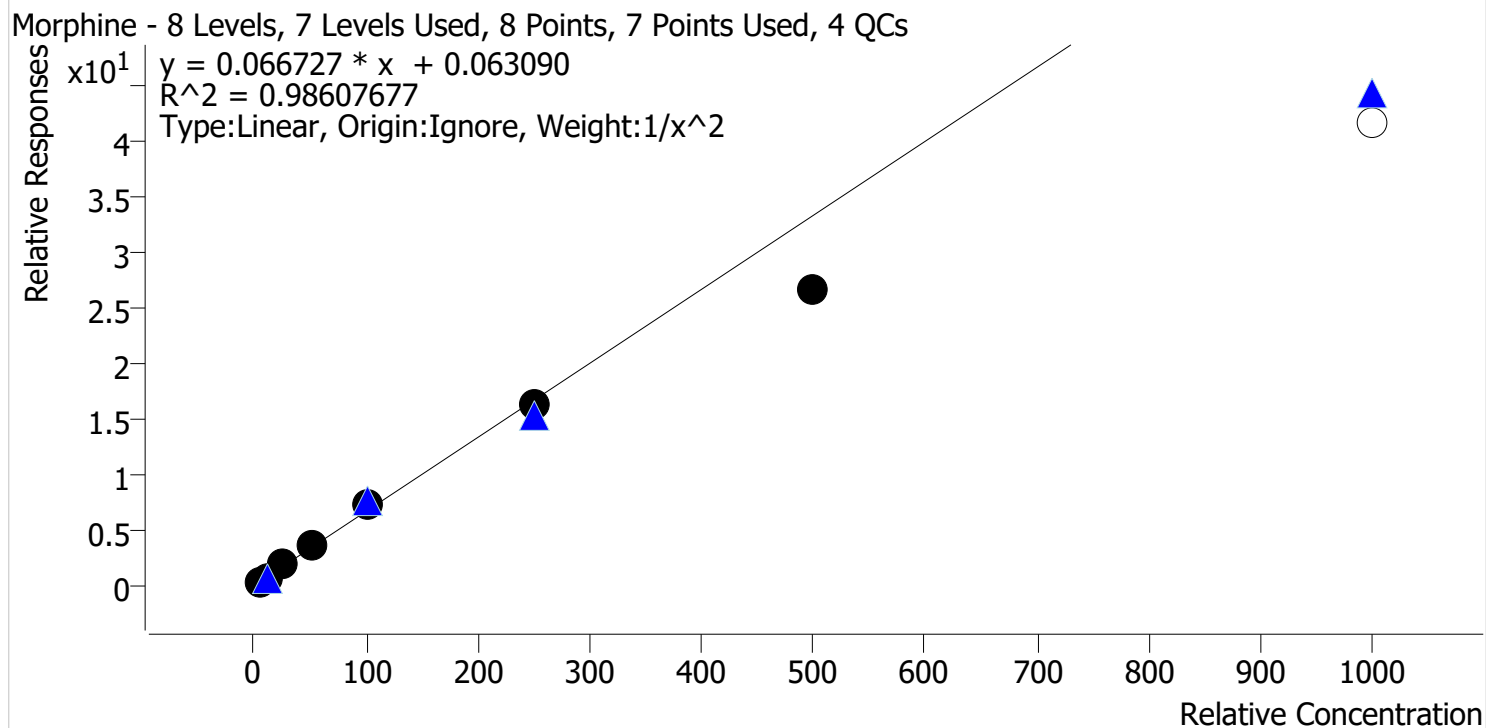


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.3
cal 2 mdq	2	✓	10.0	10.3	102.6
cal 3 mdq	3	✓	25.0	27.0	108.0
cal 4 mdq	4	✓	50.0	54.1	108.2
cal 5 mdq	5	✓	100.0	104.4	104.4
cal 6 mdq	6	✓	250.0	240.1	96.0
cal 7 mdq	7	✓	500.0	422.8	84.6
cal 8 mdq	8	✗	1000.0	701.8	70.2

# Compound Calibration Report



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**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

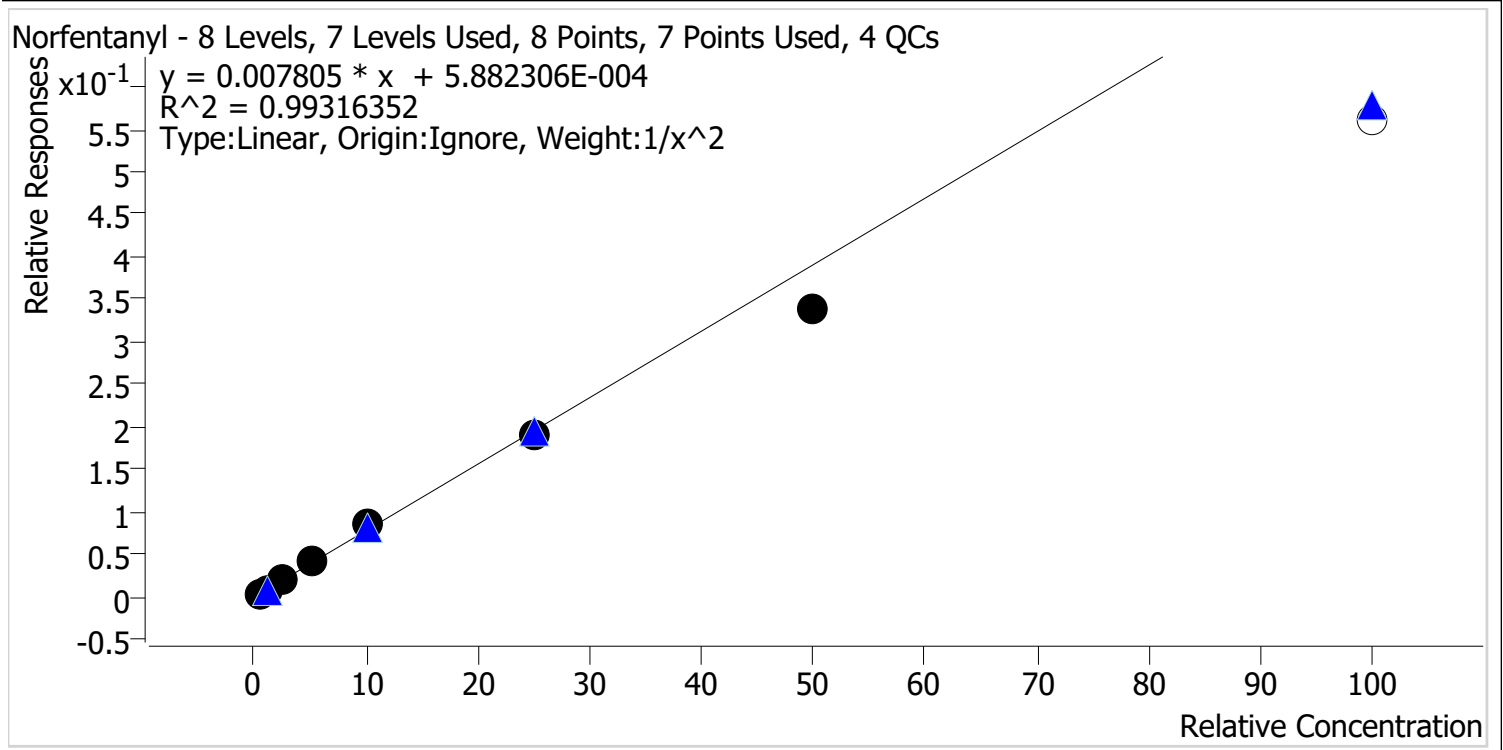


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.1
cal 2 mdq	2	✓	10.0	10.3	102.8
cal 3 mdq	3	✓	25.0	27.2	108.9
cal 4 mdq	4	✓	50.0	52.5	105.1
cal 5 mdq	5	✓	100.0	109.0	109.0
cal 6 mdq	6	✓	250.0	244.9	97.9
cal 7 mdq	7	✓	500.0	401.0	80.2
cal 8 mdq	8	✗	1000.0	624.9	62.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	99.3
cal 2 mdq	2	✓	1.0	1.0	98.4
cal 3 mdq	3	✓	2.5	2.6	103.3
cal 4 mdq	4	✓	5.0	5.3	105.7
cal 5 mdq	5	✓	10.0	10.8	108.3
cal 6 mdq	6	✓	25.0	24.6	98.3
cal 7 mdq	7	✓	50.0	43.3	86.7
cal 8 mdq	8	✗	100.0	71.8	71.8

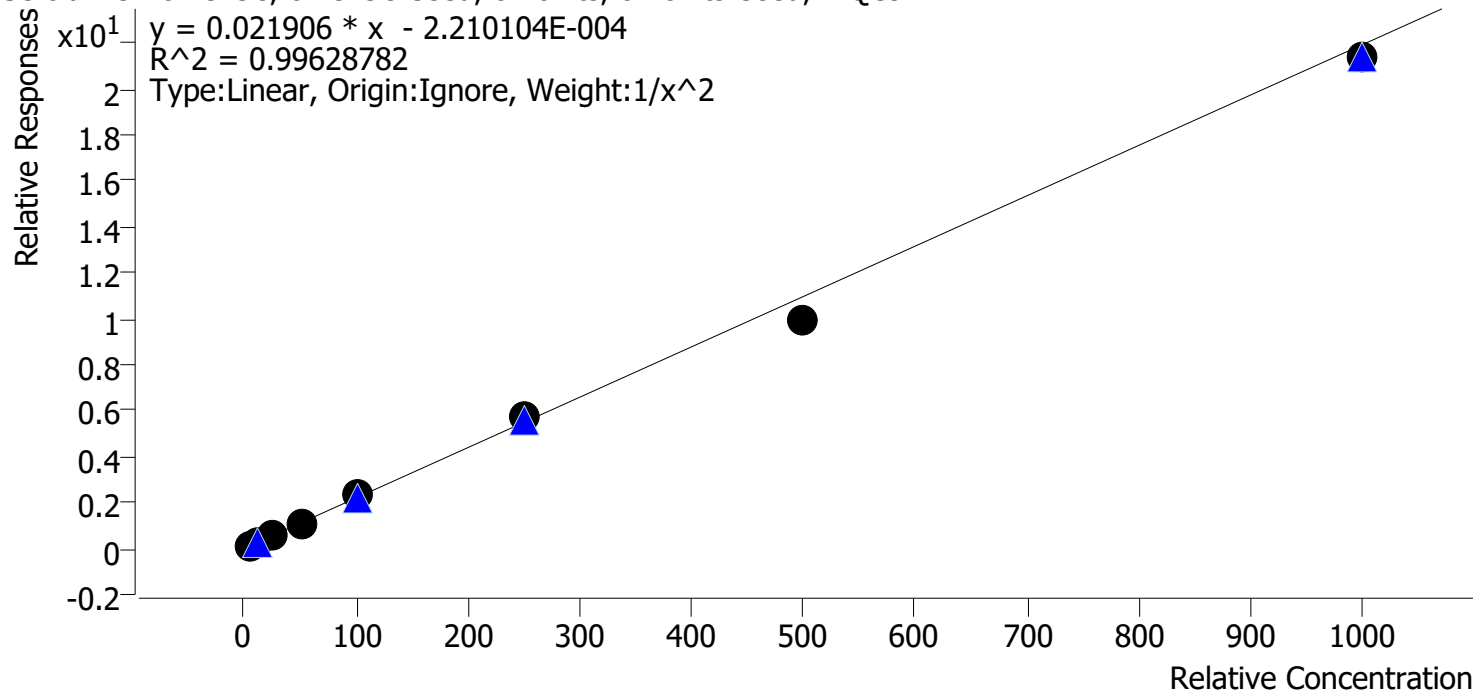


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



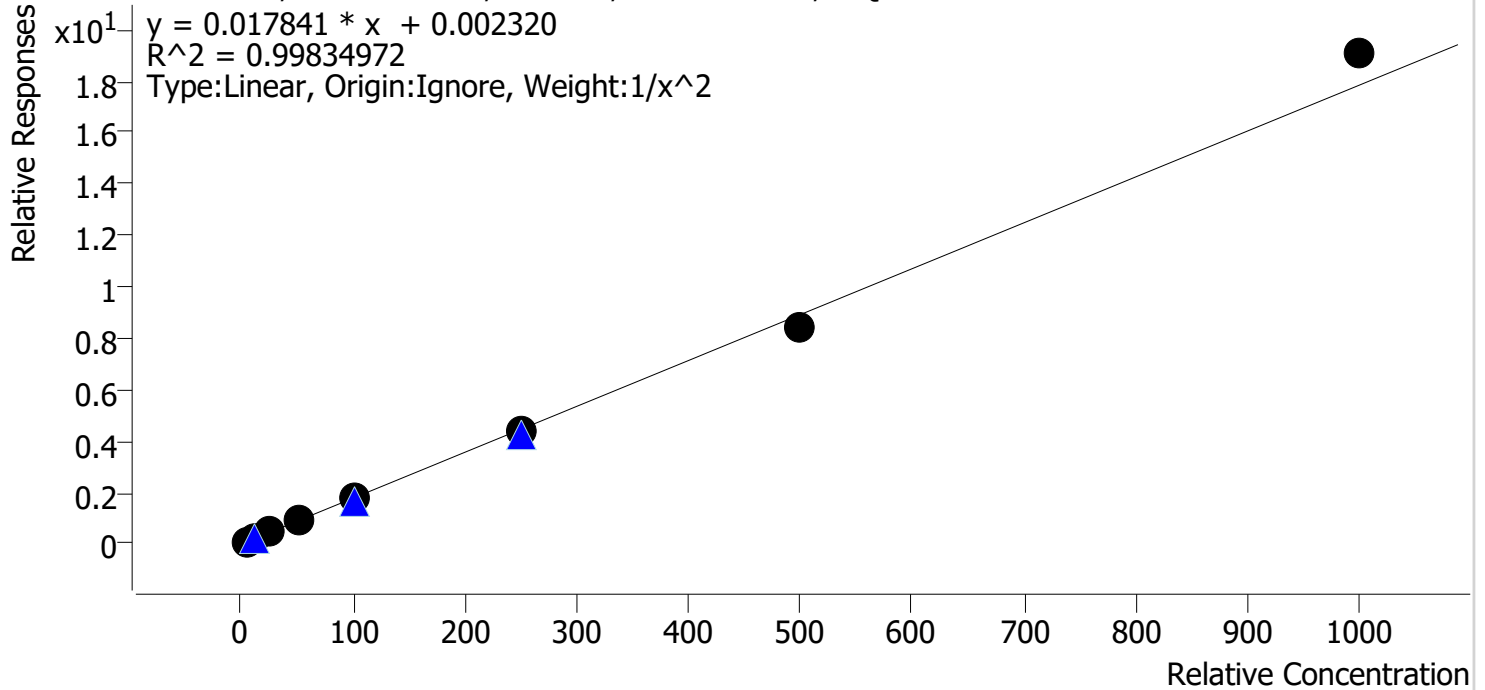
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.9
cal 2 mdq	2	✓	10.0	9.7	97.2
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	50.1	100.2
cal 5 mdq	5	✓	100.0	109.6	109.6
cal 6 mdq	6	✓	250.0	258.2	103.3
cal 7 mdq	7	✓	500.0	455.7	91.1
cal 8 mdq	8	✓	1000.0	974.5	97.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

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



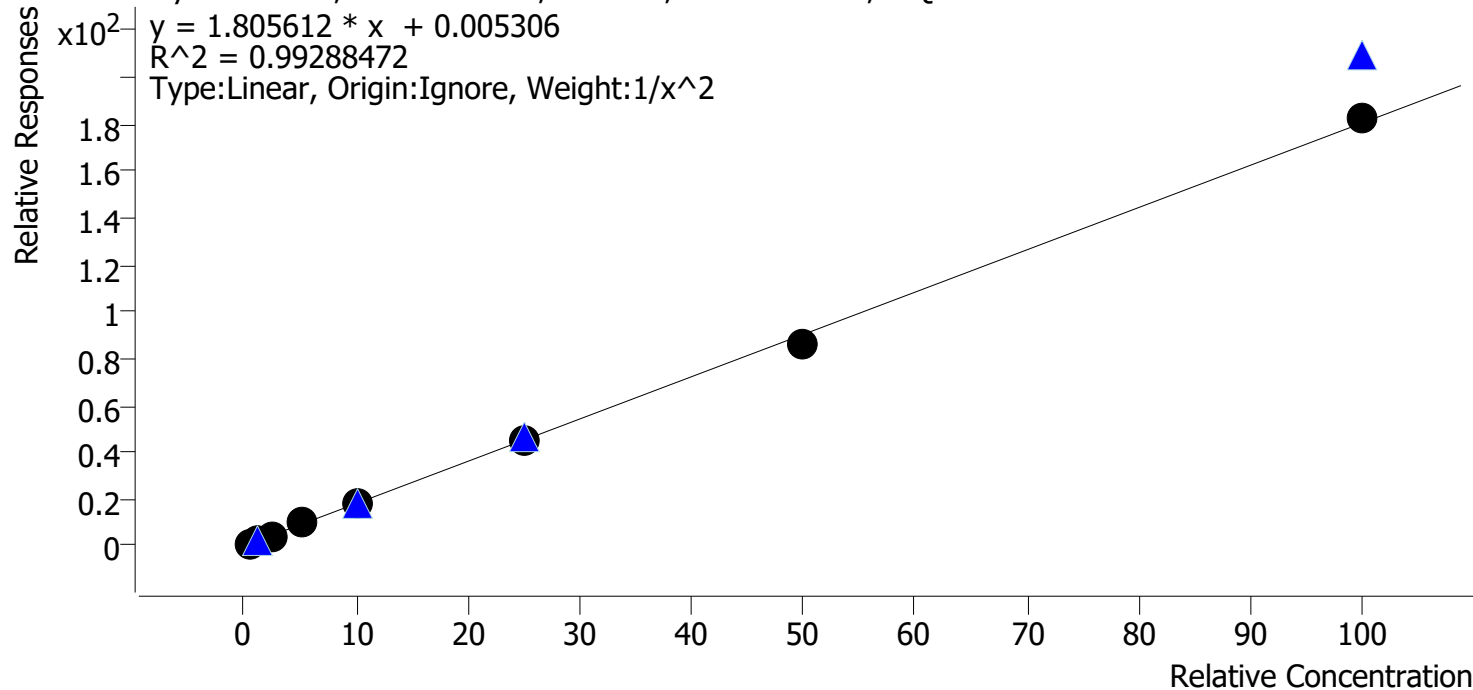
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.3
cal 2 mdq	2	✓	10.0	9.9	98.7
cal 3 mdq	3	✓	25.0	25.4	101.7
cal 4 mdq	4	✓	50.0	50.5	101.0
cal 5 mdq	5	✓	100.0	99.6	99.6
cal 6 mdq	6	✓	250.0	242.6	97.0
cal 7 mdq	7	✓	500.0	474.5	94.9
cal 8 mdq	8	✓	1000.0	1068.4	106.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluorofentanyl **Internal Standard** Fluorofentanyl-D5

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



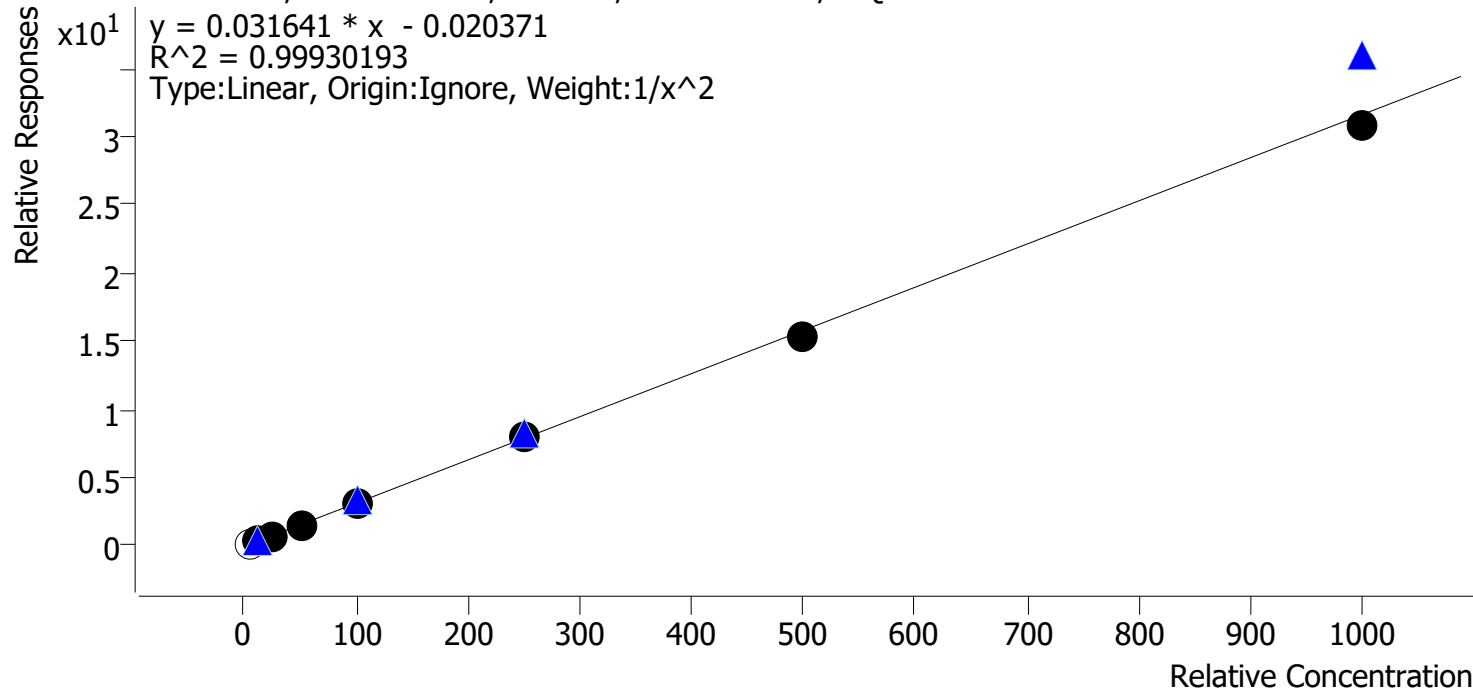
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	101.6
cal 2 mdq	2	✓	1.0	1.0	97.6
cal 3 mdq	3	✓	2.5	2.3	90.9
cal 4 mdq	4	✓	5.0	5.8	115.7
cal 5 mdq	5	✓	10.0	9.7	96.7
cal 6 mdq	6	✓	25.0	25.3	101.1
cal 7 mdq	7	✓	50.0	47.5	95.0
cal 8 mdq	8	✓	100.0	101.4	101.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Duloxetine **Internal Standard** Duloxetine-d3

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



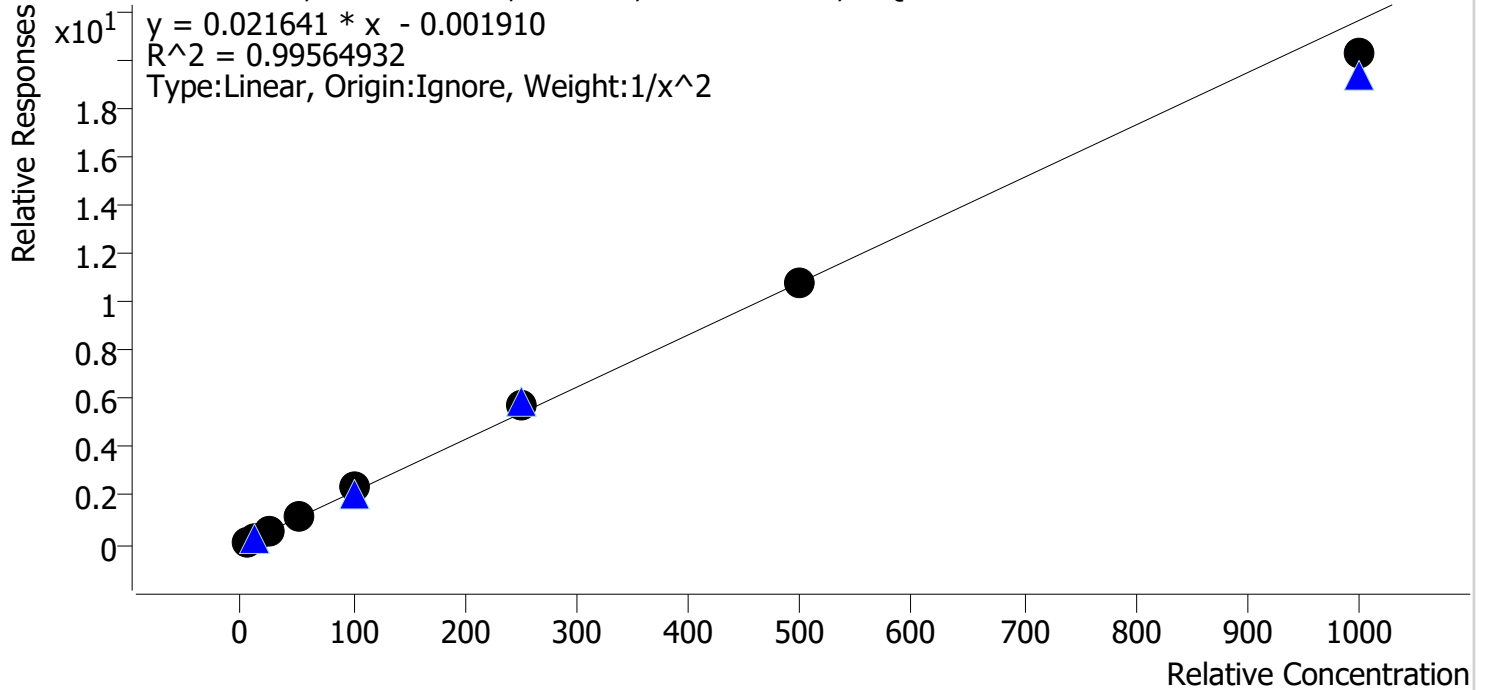
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	6.0	119.3
cal 2 mdq	2	✓	10.0	9.9	98.7
cal 3 mdq	3	✓	25.0	25.5	102.0
cal 4 mdq	4	✓	50.0	50.7	101.4
cal 5 mdq	5	✓	100.0	102.8	102.8
cal 6 mdq	6	✓	250.0	251.4	100.6
cal 7 mdq	7	✓	500.0	485.9	97.2
cal 8 mdq	8	✓	1000.0	973.5	97.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\103123\QuantResults\lam 28 P1.batch.bin  
**Last Cal. Update** 11/1/2023 11:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bromazolam **Internal Standard** Bromazolam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.6
cal 2 mdq	2	✓	10.0	10.0	99.5
cal 3 mdq	3	✓	25.0	22.7	90.7
cal 4 mdq	4	✓	50.0	50.3	100.5
cal 5 mdq	5	✓	100.0	107.4	107.4
cal 6 mdq	6	✓	250.0	267.1	106.8
cal 7 mdq	7	✓	500.0	499.1	99.8
cal 8 mdq	8	✓	1000.0	936.5	93.7

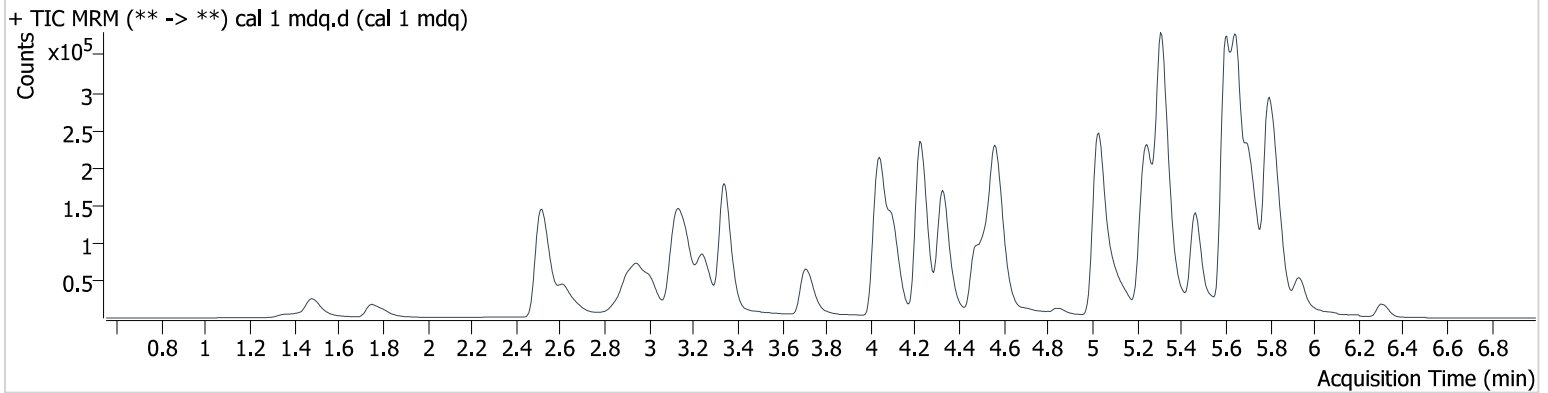
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-A5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 3:55:55 PM  
**Sample Info.**

**Data File** cal 1 mdq.d  
**Sample** cal 1 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.004	22680	1104.3	304.81	2056.7	143867	4.806 ng/ml
Benzoylcegonine	3.827	728	∞	49.67	94.3	5501	5.168 ng/ml
Bromazolam	5.796	6066	129.2	98.65	460.0	56175	5.078 ng/ml
Cocaine	4.333	36641	226799.0	47.29	38458.3	532819	5.142 ng/ml
Duloxetine	5.658	7374	105.1	6.90 <b>Low</b>	44.5	43786	5.966 ng/ml
Fentanyl	5.478	4634	2463.7	119.66	1110.2	430420	0.508 ng/ml
Fluorofentanyl	5.525	3809	2793.4	122.58	8.9 <b>Low</b>	4127	0.508 ng/ml
Methadone	5.657	72158	19890.8	49.56	2157.7	539758	5.037 ng/ml
Methamphetamine	3.182	83972	3097.4	38.17	990.9	405345	4.816 ng/ml
Morphine	1.417	2222	185.6	19.23	41.0	5792	4.804 ng/ml
Norfentanyl	4.050	2248	344.9	27.31	50078.1	503448	0.497 ng/ml
Sertraline	5.798	10533	14516.2	108.42	2331.8	95503	5.045 ng/ml
Trazodone	5.832	42538	83692.1	138.48	∞	463315	5.016 ng/ml

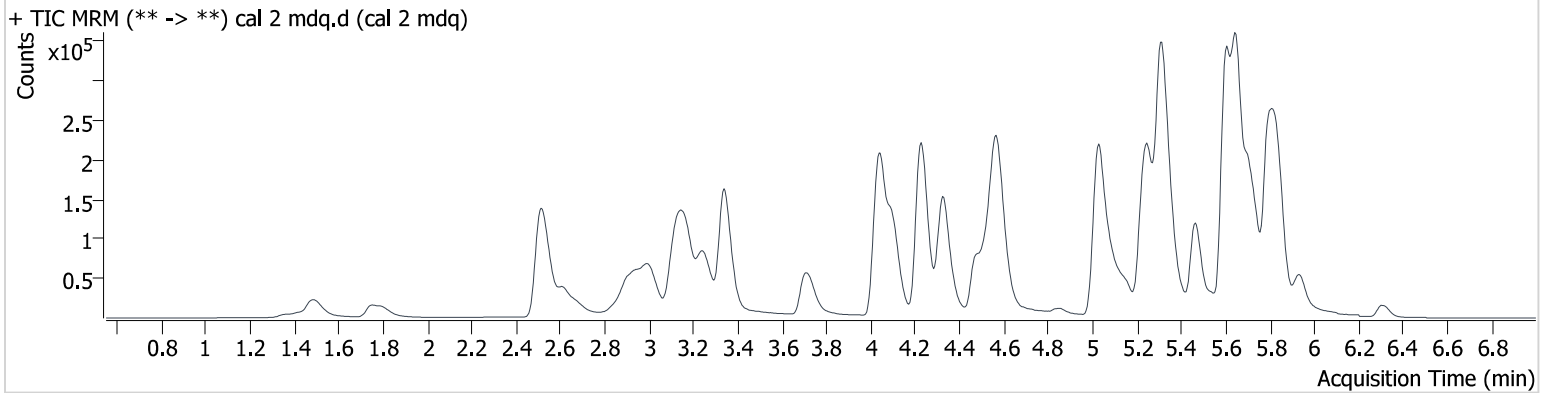
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-B5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:04:48 PM  
**Sample Info.**

**Data File** cal 2 mdq.d  
**Sample** cal 2 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	36737	2932.7	294.26	∞	119214	10.313 ng/ml
Benzoylcgonine	3.832	1481	1708.9	36.75	543.4	4959	10.914 ng/ml
Bromazolam	5.796	10292	201.5	99.70	211.9	48209	9.954 ng/ml
Cocaine	4.338	56013	373673.3	47.64	∞	445258	9.383 ng/ml
Duloxetine	5.658	10132	127.6	11.58	37.7	34706	9.870 ng/ml
Fentanyl	5.478	7092	113.9	108.04	422.9	352626	0.957 ng/ml
Fluorofentanyl	5.530	6207	4920.0	120.65	405.1	3513	0.976 ng/ml
Methadone	5.657	115813	1872.3	48.35	54327.5	439942	9.836 ng/ml
Methamphetamine	3.182	118468	∞	37.59	∞	333985	10.255 ng/ml
Morphine	1.417	3834	1118.1	19.32	83.1	5117	10.284 ng/ml
Norfentanyl	4.050	3618	3498.9	29.85	299.7	437757	0.984 ng/ml
Sertraline	5.803	15061	9893.7	114.12	∞	70823	9.718 ng/ml
Trazodone	5.832	68884	∞	132.79	∞	386112	9.870 ng/ml

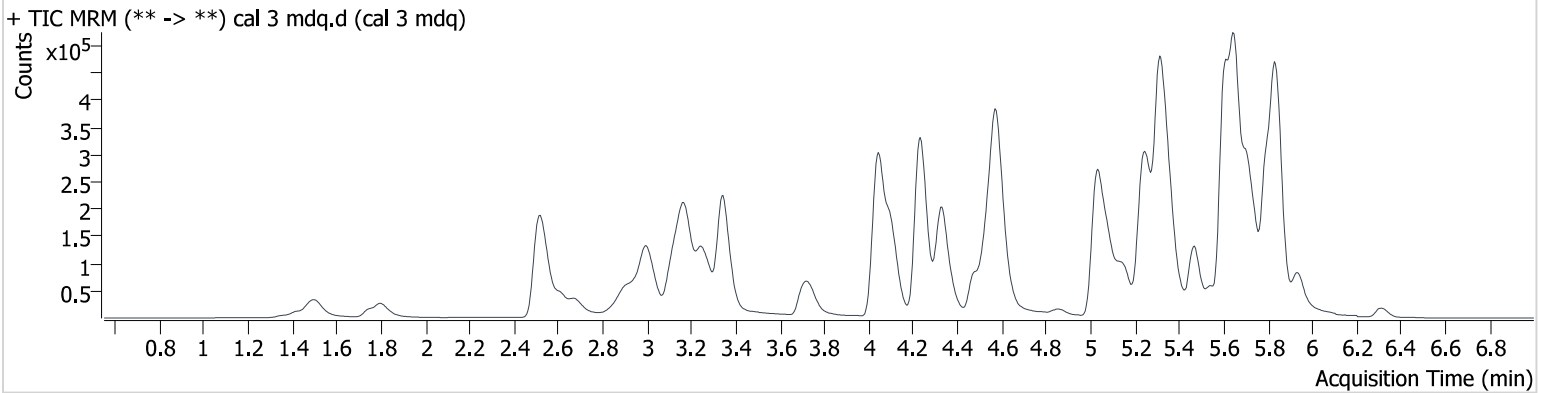
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-C5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:13:30 PM  
**Sample Info.**

**Data File** cal 3 mdq.d  
**Sample** cal 3 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.994	92155	2558.2	268.86	∞	117510	27.732 ng/ml
Benzoylcgonine	3.832	3227	4512.6	45.70	∞	4823	23.712 ng/ml
Bromazolam	5.796	23355	1564.4	104.39	182.8	47774	22.679 ng/ml
Cocaine	4.338	154072	∞	45.35	133895.3	455251	25.194 ng/ml
Duloxetine	5.653	29830	205.3	8.97	164.0	37930	25.499 ng/ml
Fentanyl	5.478	18873	4033.2	104.79	2308.1	355505	2.543 ng/ml
Fluorofentanyl	5.536	16223	10145.8	118.96	4219.5	3949	2.272 ng/ml
Methadone	5.657	294283	7813913.8	52.38	20086.7	441019	24.804 ng/ml
Methamphetamine	3.182	281891	∞	36.43	4127.5	348473	26.999 ng/ml
Morphine	1.417	9647	1544.9	18.46	116.8	5132	27.226 ng/ml
Norfentanyl	4.056	9229	1569.7	31.14	2090.4	444928	2.582 ng/ml
Sertraline	5.804	46020	318427.9	104.23	∞	83836	25.068 ng/ml
Trazodone	5.832	176441	∞	135.33	∞	387177	25.413 ng/ml



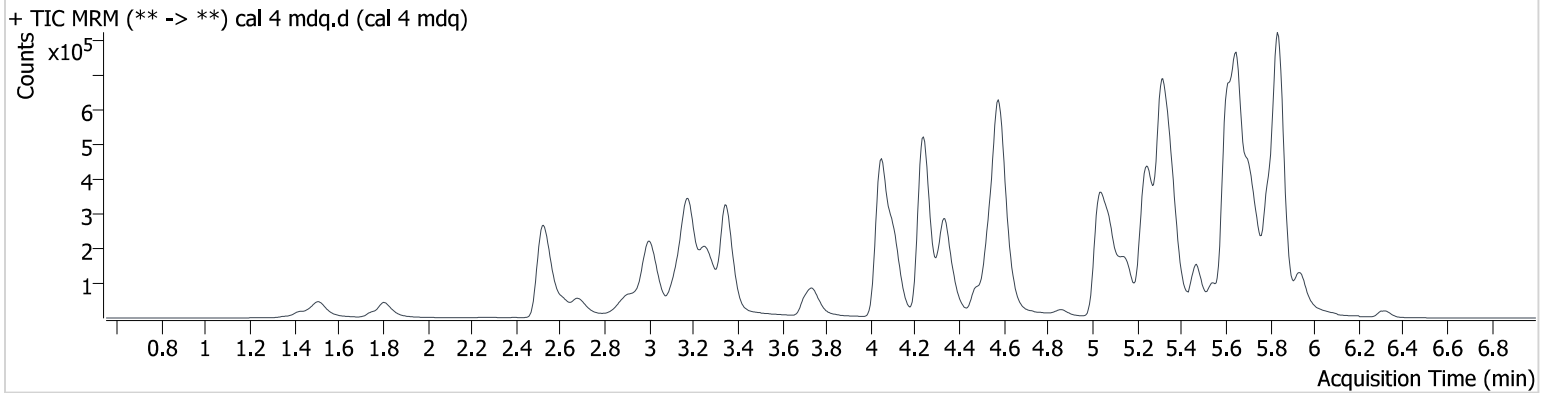
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-D5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:22:13 PM  
**Sample Info.**

**Data File** cal 4 mdq.d  
**Sample** cal 4 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	174231	8898.0	263.18	30705.7	120484	51.949 ng/ml
Benzoylcgonine	3.827	6809	11266.8	42.77	237.2	4979	47.850 ng/ml
Bromazolam	5.791	48705	97.6	97.48	68.1	44866	50.252 ng/ml
Cocaine	4.338	320856	∞	45.24	∞	476063	50.146 ng/ml
Duloxetine	5.653	59377	∞	9.24	287.1	37485	50.706 ng/ml
Fentanyl	5.478	38222	8312.3	116.73	5928.9	362964	5.054 ng/ml
Fluorofentanyl	5.530	33341	17.1	110.86	23140.2	3190	5.786 ng/ml
Methadone	5.657	607696	828469.9	50.15	86465.7	443761	50.816 ng/ml
Methamphetamine	3.187	546857	12916.9	36.93	14631.7	354249	54.084 ng/ml
Morphine	1.427	17890	1726.1	19.67	530.3	5013	52.541 ng/ml
Norfentanyl	4.056	18077	1830.6	31.18	∞	431983	5.287 ng/ml
Sertraline	5.798	89512	∞	106.13	23426.3	81586	50.094 ng/ml
Trazodone	5.832	343222	∞	137.36	∞	380070	50.487 ng/ml

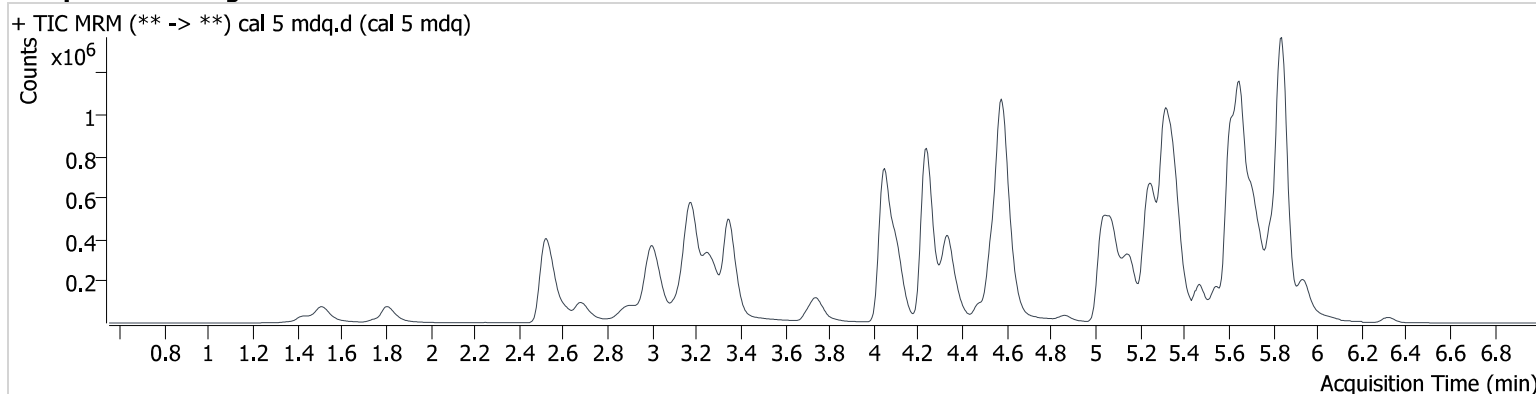
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-E5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:30:56 PM  
**Sample Info.**

**Data File** cal 5 mdq.d  
**Sample** cal 5 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	308265	21207.4	257.67	22083.1	111346	100.334 ng/ml
Benzoylcgonine	3.827	12950	67719.1	43.17	657.0	4570	98.510 ng/ml
Bromazolam	5.791	89848	465.3	94.86	∞	38705	107.357 ng/ml
Cocaine	4.338	603519	154631.5	45.58	802954.2	446301	100.583 ng/ml
Duloxetine	5.653	101289	350.8	10.55	190.0	31336	102.802 ng/ml
Fentanyl	5.478	74451	81176.2	107.13	1106.2	351721	10.168 ng/ml
Fluorofentanyl	5.530	61271	39964.8	115.10	68815.8	3506	9.675 ng/ml
Methadone	5.657	1131339	767064.3	50.98	91040.1	415318	100.998 ng/ml
Methamphetamine	3.182	1022434	∞	37.79	∞	351650	104.358 ng/ml
Morphine	1.422	34757	3424.7	18.71	1397.3	4739	108.958 ng/ml
Norfentanyl	4.056	34684	4645.4	29.50	296972.6	407649	10.826 ng/ml
Sertraline	5.803	152051	387176.0	104.45	897558.5	63343	109.588 ng/ml
Trazodone	5.832	605439	∞	136.40	∞	340382	99.568 ng/ml

# AM #28 Multi-Drug Quant. Results

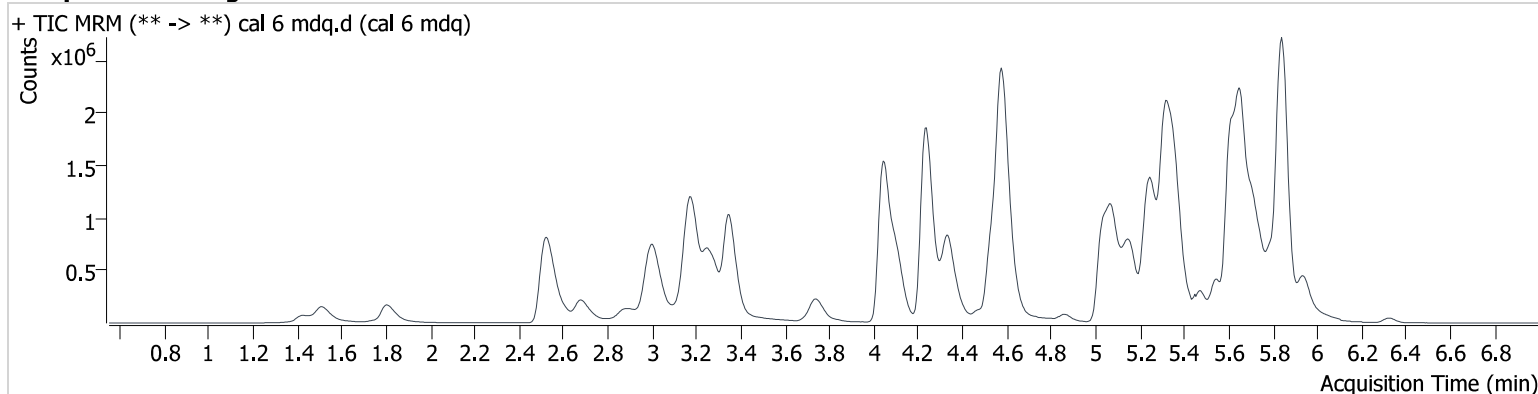
**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-F5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:39:38 PM  
**Sample Info.**

**Data File** cal 6 mdq.d  
**Sample** cal 6 mdq  
**Operator** Anne Nord  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	635169	57840.7	251.90	44825.8	108142	213.940 ng/ml
Benzoylcgonine	3.827	33756	91841.7	43.22	2411.8	4803	243.419 ng/ml
Bromazolam	5.791	175094	∞	92.00	∞	30301	267.108 ng/ml
Cocaine	4.338	1521617	130853.7	45.25	∞	446677	253.338 ng/ml
Duloxetine	5.658	185129	∞	10.77	278.5	23331	251.420 ng/ml
Fentanyl	5.478	192139	38530.1	111.62	18417.5	374346	24.669 ng/ml
Fluorofentanyl	5.530	156580	131259.6	107.17	35839.5	3432	25.264 ng/ml
Methadone	5.657	2807977	98175.8	47.69	66595.4	406360	256.074 ng/ml
Methamphetamine	3.177	2426771	∞	37.35	46676.8	368260	240.095 ng/ml
Morphine	1.422	81633	9629.9	21.28	2896.7	4977	244.852 ng/ml
Norfentanyl	4.050	71436	4546.7	30.33	98684.4	371214	24.582 ng/ml
Sertraline	5.804	256762	301202.1	115.81	33498.8	45396	258.205 ng/ml
Trazodone	5.832	1240245	∞	139.45	∞	286403	242.594 ng/ml

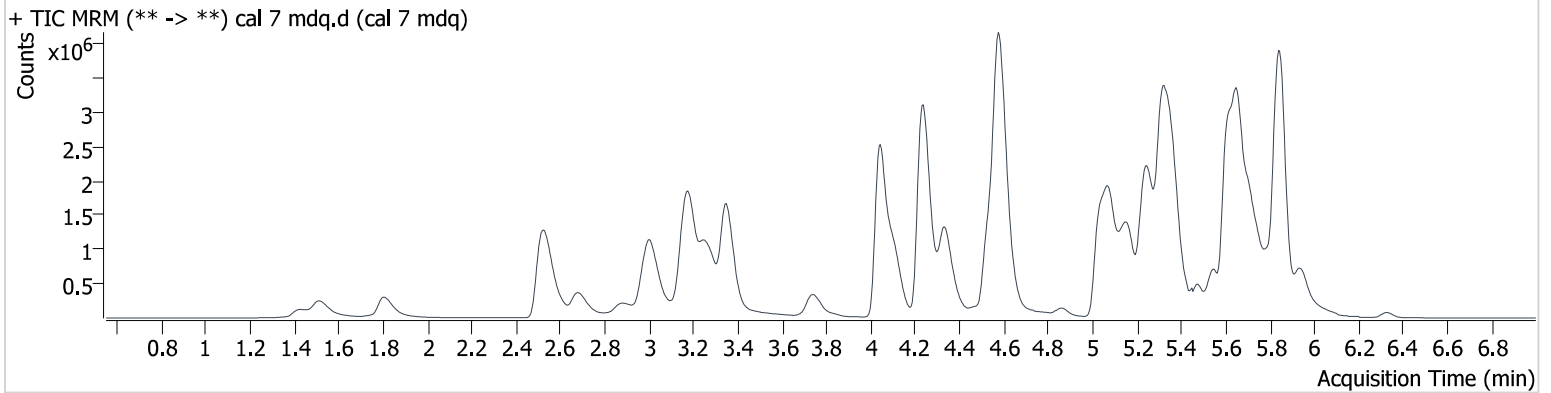
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-G5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 4:48:20 PM  
**Sample Info.**

**Data File** cal 7 mdq.d  
**Sample** cal 7 mdq  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.999	910622	21755.2	249.52	193833.8	89842	369.893 ng/ml
Benzoylcgonine	3.832	72984	572469.6	43.09	5272.4	5046	500.371 ng/ml
Bromazolam	5.791	229298	6684.8	92.78	∞	21232	499.123 ng/ml
Cocaine	4.333	2718778	323751.9	44.92	174595.3	403472	501.100 ng/ml
Duloxetine	5.658	241868	∞	9.33	3200.9	15753	485.890 ng/ml
Fentanyl	5.478	374025	11679.5	117.99	33953.6	359507	50.015 ng/ml
Fluorofentanyl	5.530	273380	95443.1	106.47	324417.0	3188	47.484 ng/ml
Methadone	5.657	4742276	727319.0	48.65	56226.6	356202	493.293 ng/ml
Methamphetamine	3.182	4025377	395422.3	37.86	317010.2	348608	422.827 ng/ml
Morphine	1.422	148906	25405.7	19.20	6461.1	5552	400.960 ng/ml
Norfentanyl	4.050	107482	28045.5	31.02	103545.1	317180	43.344 ng/ml
Sertraline	5.798	338140	455085.8	104.39	1224121.8	33872	455.720 ng/ml
Trazodone	5.832	1848978	163581.2	138.27	∞	218330	474.549 ng/ml

# AM #28 Multi-Drug Quant. Results

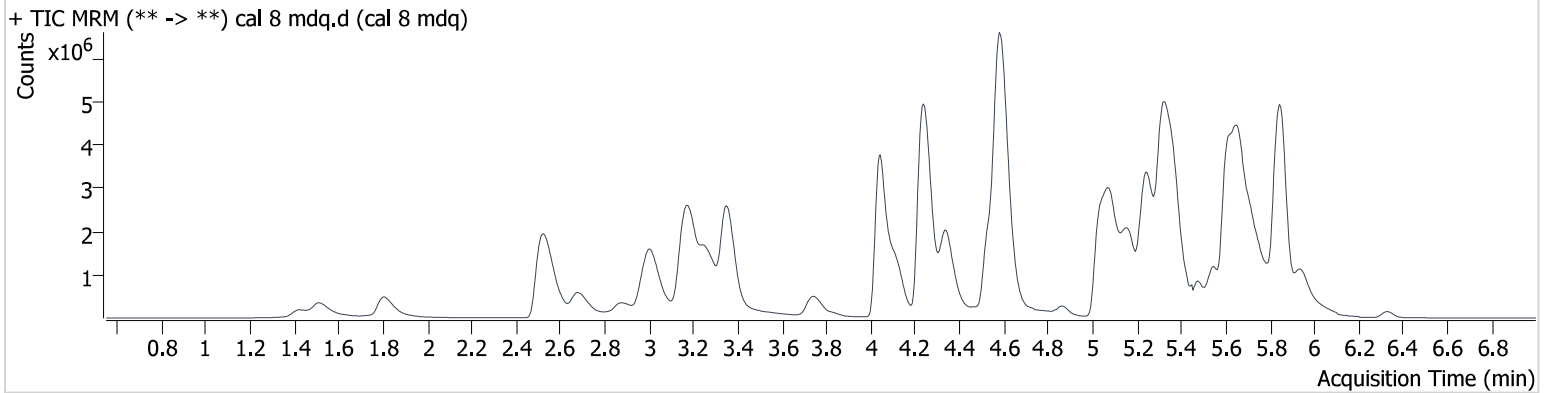
**Batch results** D:\MassHunter\Data\2023\am 27-28\103123\QuantResults\am 28 P1.batch.bin  
**Calibration Last Update** 11/1/2023 11:48:16 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-H5  
**Injection Volume** 3  
**Acq. Date-Time** 10/31/2023 5:05:47 PM  
**Sample Info.**

**Data File** cal 8 mdq.d  
**Sample** cal 8 mdq  
**Operator** Anne Nord

**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	2.994	1245246	48117.6	242.84	108647.9	79637	571.152 ng/ml
Benzoylcegonine	3.832	153033	∞	42.44	5488.7	5238	1010.056 ng/ml
Bromazolam	5.791	281981	8998.0	91.82	∞	13915	936.526 ng/ml
Cocaine	4.338	4661054	34322933.1	44.97	7214599.0	346186	1001.214 ng/ml
Duloxetine	5.669	250047	1139.4	11.59	2457.1	8123	973.461 ng/ml
Fentanyl	5.478	715724	∞	118.12	115443.4	346000	99.452 ng/ml
Fluorofentanyl	5.525	441885	356962.6	111.64	35445.6	2414	101.396 ng/ml
Methadone	5.663	7568723	154492.0	47.89	41560.6	286241	979.644 ng/ml
Methamphetamine	3.177	6334826	149297.4	37.61	90147.9	331410	701.791 ng/ml
Morphine	1.422	241460	19283.9	18.03	∞	5782	624.891 ng/ml
Norfentanyl	4.050	129253	16353.0	30.01	122703.5	230389	71.808 ng/ml
Sertraline	5.804	353773	1623666.0	103.59	592593.9	16572	974.532 ng/ml
Trazodone	5.838	2430864	∞	138.30	6021300.2	127511	1068.420 ng/ml