











**Worklist: 6648**

*REVIEWED*  
*By Briany Wylie at 4:34 pm, Jan 15, 2024*

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-2796		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2804		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2815		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2831		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2841		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2852		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-2856		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-0032		BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 01/09/24 Analyst: Anne Nord  
Plate lot#: 231215 Plate re-test: 06/15/2024

**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** Blood only run

**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: The blood Negative control, and C2023-2796-1 were not injected on 1/9/24, they were injected the next day, C2023-2804-1 followed a positive control, it was injected the next day following a sample that did not contain the same drugs, that injection was evaluated.

Compounds evaluated

Limitations

Compounds evaluated	Limitations
Alprazolam	
Amphetamine	5-100 cal 6, 7 and 8 dropped due to accuracy, qualitative only
Bupropion	
Citalopram	
Dihydrocodeine	5-500 cal 8 dropped due to accuracy
Diphenhydramine	
Doxylamine	
EDDP	
Hydrocodone	
Hydromorphone	
Lorazepam	25-1000 cal 1 dropped due to poor peak shape and response, cal 2 dropped due to poor peak shape and ratio.



Methamphetamine	5-250 cal 7 and 8 dropped due to accuracy
Morphine	
Nordiazepam	
Norhydrocodone	
Noroxycodone	
Oxycodone	
Promethazine	
Quetiapine	
Sertraline	
Zolpidem	

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	2815-1									
B	IS + Cal. 2	IS + QC_2	2831-1									
C	IS + Cal. 3	IS + QC 3	2841-1									
D	IS + Cal. 4	IS + QC_4	2852-1									
E	IS + Cal. 5		2856-1									
F	IS + Cal. 6	neg blood	c2024-0032-1									
G	IS + Cal. 7	2796-1										
H	IS + Cal. 8	2804-1										

blank in front

plate position 2

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

# AM #28 Multi-Drug Quant. Results

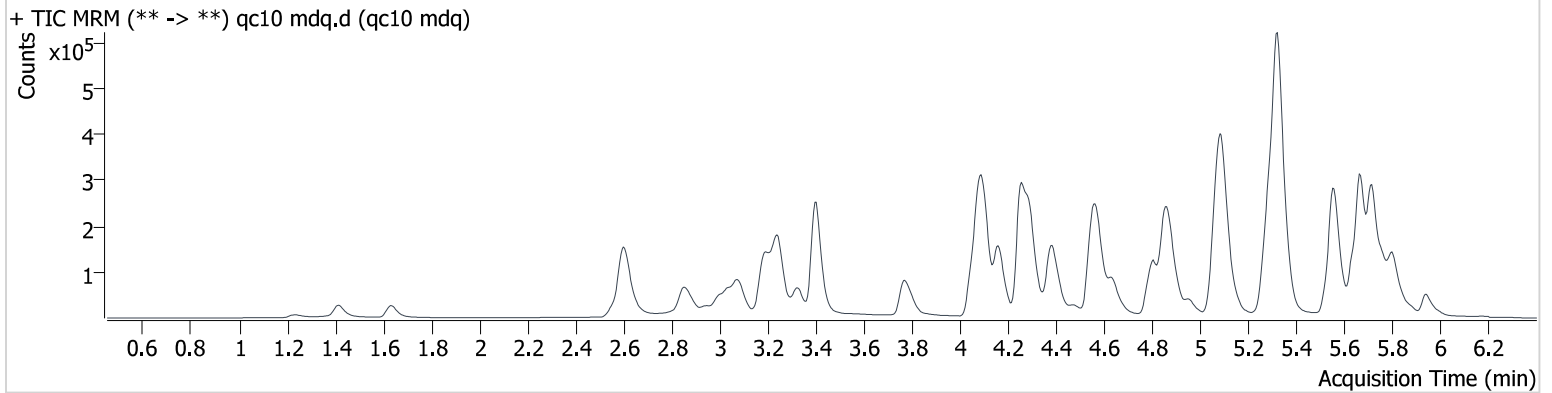
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-A2  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 4:08:21 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.
Alprazolam	5.766	32651	6029.1	93.72	1315.5	127399	9.956 ng/ml
Amphetamine	3.082	41650	3331.0	278.37	6868.0	123015	10.191 ng/ml
Bupropion	4.810	87252	6492.6	74.17	5391.3	283339	9.457 ng/ml
Citalopram	5.267	70337	12552.2	36.48	6463.8	321203	9.180 ng/ml
Dihydrocodeine	2.589	11183	486.5	63.16	334.3	67375	10.100 ng/ml
Diphenhydramine	5.328	206878	54059.4	33.38	83228.3	1163915	8.013 ng/ml
Doxylamine	4.571	217867	∞	92.89	6071.9	619301	10.478 ng/ml
EDDP	5.295	73488	2362.9	40.90	44351.1	376086	9.383 ng/ml
Hydrocodone	3.064	24789	2131.8	39.84	917.5	141055	9.524 ng/ml
Hydromorphone	1.642	16005	∞	69.35	∞	59645	8.992 ng/ml
Lorazepam	5.744	1938	∞	35.96	26.7	96600	11.421 ng/ml
Methamphetamine	3.250	168471	2017.1	37.16	1899.9	338833	10.916 ng/ml
Morphine	1.246	3332	397.9	18.60	56.4	5081	10.113 ng/ml
Nordiazepam	5.887	4357	624.6	60.88	84.9	15738	9.314 ng/ml
Norhydrocodone	3.110	3527	264.8	19.28	213.6	33327	9.578 ng/ml
Noroxycodone	2.961	15235	∞	48.78	775.7	53064	10.031 ng/ml
Oxycodone	2.884	43947	814.5	30.78	1753.8	203460	9.684 ng/ml
Promethazine	5.558	82161	10623.7	44.16	3343.8	480812	10.071 ng/ml
Quetiapine	5.539	108559	26145.4	69.58	9411.2	175708	10.487 ng/ml
Sertraline	5.787	22629	∞	94.32	∞	89655	9.780 ng/ml
Zolpidem	4.875	154456	9394.5	29.42	3747.1	633388	9.784 ng/ml

# AM #28 Multi-Drug Quant. Results

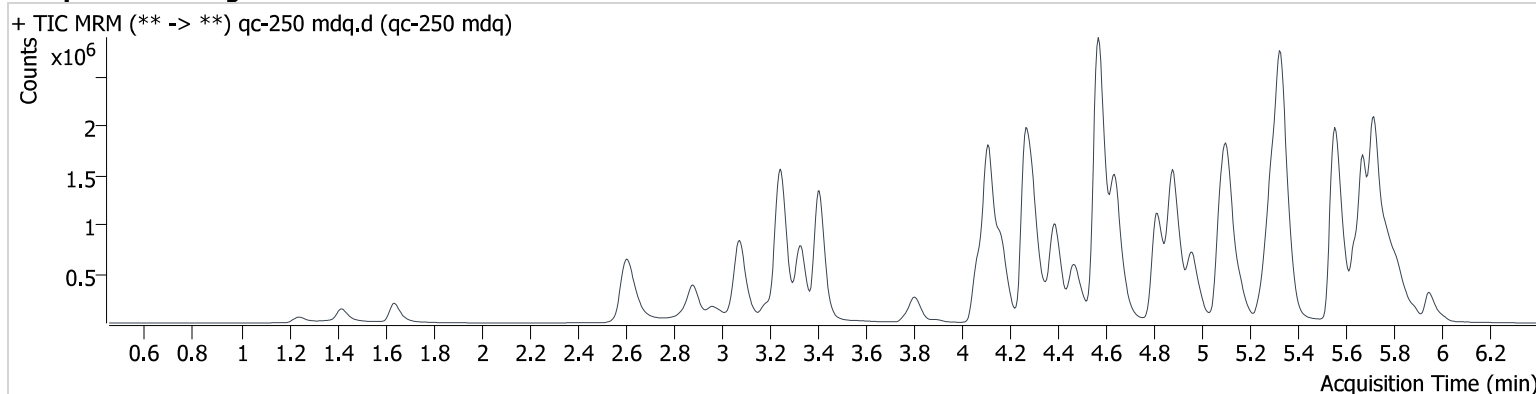
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-C2  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 4:17:03 PM  
**Sample Info.**

**Data File** qc-250 mdq.d  
**Sample** qc-250 mdq  
**Operator** Anne Nord

**Comment**  
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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	582152	∞	94.48	11734.8	92157	239.142 ng/ml
Amphetamine	3.082	590027	5719.4	260.60	21594.7	108234	177.793 ng/ml
Bupropion	4.815	2036452	189949.2	74.43	190542.0	290206	224.407 ng/ml
Citalopram	5.273	1299351	103772.1	37.47	12637.6	234519	230.416 ng/ml
Dihydrocodeine	2.584	217588	6085.1	66.40	15645.0	63955	228.096 ng/ml
Diphenhydramine	5.327	4290121	∞	32.24	227186.5	900643	208.396 ng/ml
Doxylamine	4.566	5225248	197413.9	94.54	∞	639303	249.324 ng/ml
EDDP	5.295	1754851	114602.7	42.42	2800325.2	360868	229.733 ng/ml
Hydrocodone	3.064	558537	∞	39.42	∞	131104	241.995 ng/ml
Hydromorphone	1.637	386036	∞	72.30	∞	54430	225.045 ng/ml
Lorazepam	5.744	37364	9748.6	38.57	481.0	86164	228.102 ng/ml
Methamphetamine	3.250	2373130	31191.5	38.13	∞	352297	205.451 ng/ml
Morphine	1.246	73693	25738.9	19.09	1214.1	4710	238.474 ng/ml
Nordiazepam	5.892	104266	32914.8	61.12	3953.1	14076	242.895 ng/ml
Norhydrocodone	3.115	91603	∞	25.22	1570.7	33989	226.900 ng/ml
Noroxycodone	2.961	306173	∞	51.24	∞	42882	252.987 ng/ml
Oxycodone	2.879	990750	∞	29.48	∞	193747	236.204 ng/ml
Promethazine	5.563	1884885	∞	43.79	85938.4	444356	241.671 ng/ml
Quetiapine	5.539	2185630	231369.5	67.26	13218.4	161406	244.491 ng/ml
Sertraline	5.787	312127	∞	92.66	∞	54721	242.833 ng/ml
Zolpidem	4.880	3584019	185347.6	29.39	∞	603106	245.327 ng/ml

# AM #28 Multi-Drug Quant. Results

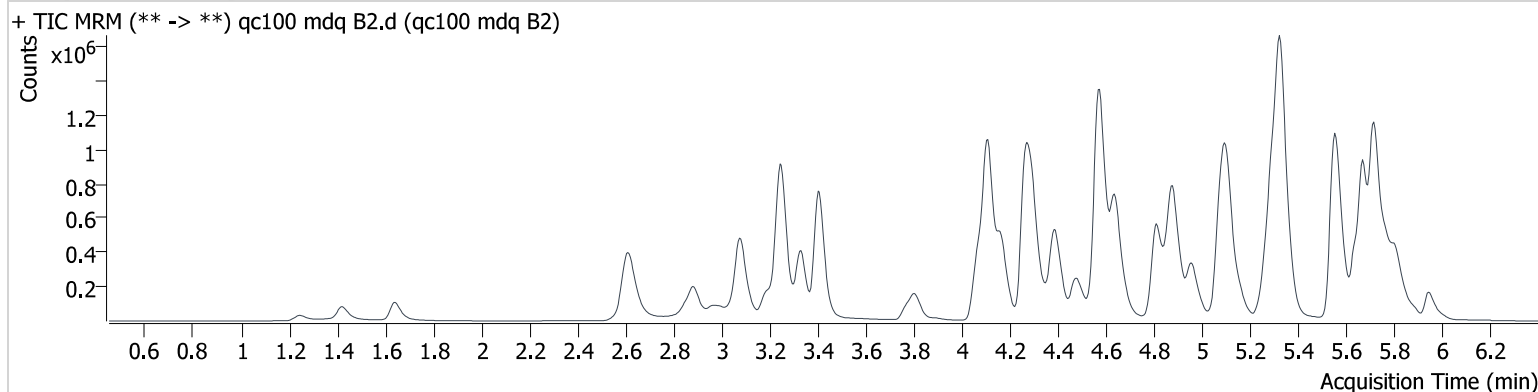
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Calibration Last Update 1/10/2024 12:38:07 PM

Instrument 69679  
Type Sample  
Acq. Method mdqp1 121523.m  
Sample Position P2-B2  
Injection Volume 3  
Acq. Date-Time 1/9/2024 5:44:09 PM  
Sample Info.

Data File qc100 mdq B2.d  
Sample qc100 mdq B2  
Operator Anne Nord  
Comment

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	293891	∞	92.57	∞	116236	95.876 ng/ml
Amphetamine	3.082	327447	∞	264.69	7040.8	122424	86.771 ng/ml
Bupropion	4.810	908030	203323.2	75.51	66880.0	312117	92.797 ng/ml
Citalopram	5.273	661349	186178.7	36.69	∞	297413	92.523 ng/ml
Dihydrocodeine	2.589	102587	736.4	65.67	4915.7	70584	96.822 ng/ml
Diphenhydramine	5.327	2034058	399523.9	33.01	457734.2	1098716	81.144 ng/ml
Doxylamine	4.571	2296810	814619.3	93.36	365231.2	677361	103.280 ng/ml
EDDP	5.295	835127	80891.2	42.69	1057844.6	419794	94.076 ng/ml
Hydrocodone	3.064	253377	∞	40.14	5998.4	146250	98.127 ng/ml
Hydromorphone	1.642	180092	∞	72.91	∞	61478	93.243 ng/ml
Lorazepam	5.744	17463	∞	38.40	249.2	96250	95.968 ng/ml
Methamphetamine	3.250	1206520	∞	38.13	8995.2	378219	94.879 ng/ml
Morphine	1.251	35146	5907.4	18.46	1141.6	5332	100.536 ng/ml
Nordiazepam	5.892	44485	24118.5	61.93	3374.3	15900	91.898 ng/ml
Norhydrocodone	3.115	43218	2772.3	23.89	3261.2	38911	93.917 ng/ml
Noroxycodone	2.961	147090	∞	51.95	∞	50047	104.052 ng/ml
Oxycodone	2.884	449938	∞	29.90	∞	209833	98.868 ng/ml
Promethazine	5.563	841517	∞	43.63	65321.7	506502	94.870 ng/ml
Quetiapine	5.539	1103144	1376370.8	63.50	∞	176592	112.412 ng/ml
Sertraline	5.787	163929	∞	91.50	∞	69710	99.519 ng/ml
Zolpidem	4.875	1581686	318218.2	29.11	41429203.9	659800	98.788 ng/ml

# AM #28 Multi-Drug Quant. Results

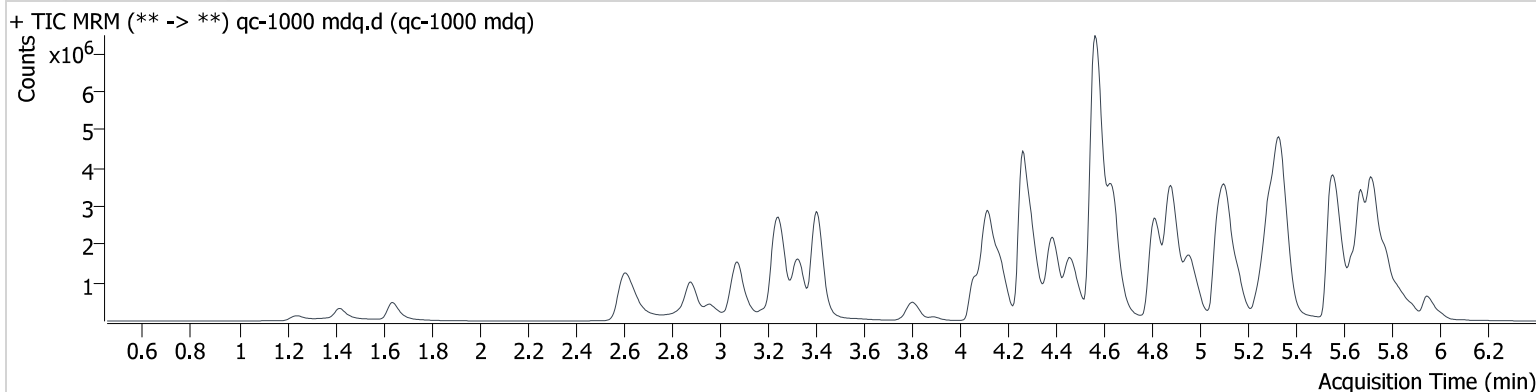
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-D2  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 4:25:46 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.
Alprazolam	5.771	1230989	7274.8	91.89	∞	48727	955.592 ng/ml
Amphetamine	3.082	1102034	17307.1	250.81	59767.5	83605	431.190 ng/ml
Bupropion	4.810	5567686	1011925.3	69.98	443295.3	208004	857.149 ng/ml
Citalopram	5.262	2335427	186057.7	39.10	889040.1	107715	901.456 ng/ml
Dihydrocodeine	2.578	600550	459.2	65.40	11997.6	54314	743.726 ng/ml
Diphenhydramine	5.333	9323657	552931.3	31.15	108549.0	469172	868.632 ng/ml
Doxylamine	4.561	15027238	223047.2	95.10	365024.2	505006	908.409 ng/ml
EDDP	5.295	5281626	231094.1	43.17	214941.6	265529	939.207 ng/ml
Hydrocodone	3.059	1539905	∞	39.72	∞	97000	903.074 ng/ml
Hydromorphone	1.637	1112552	∞	73.17	∞	39523	891.732 ng/ml
Lorazepam	5.744	100139	6353.0	40.19	6944.4	54850	957.437 ng/ml
Methamphetamine	3.245	5047913	595602.5	38.66	∞	320343	486.755 ng/ml
Morphine	1.241	212771	11735.4	17.59	5330.5	3379	959.296 ng/ml
Nordiazepam	5.892	281288	1369373.2	62.14	28148.1	9535	966.663 ng/ml
Norhydrocodone	3.115	237234	51064.9	27.04	7997.2	19614	1015.845 ng/ml
Noroxycodone	2.961	822291	∞	51.53	∞	31817	916.124 ng/ml
Oxycodone	2.879	3015544	13551.3	29.02	6573.9	157753	883.810 ng/ml
Promethazine	5.563	4999856	1135951.3	40.90	3722495.4	273310	1041.092 ng/ml
Quetiapine	5.534	4942244	16193714.8	62.83	114567.2	110096	812.127 ng/ml
Sertraline	5.787	533067	∞	92.70	∞	24041	946.891 ng/ml
Zolpidem	4.875	9642042	410139.1	29.32	∞	443065	899.186 ng/ml



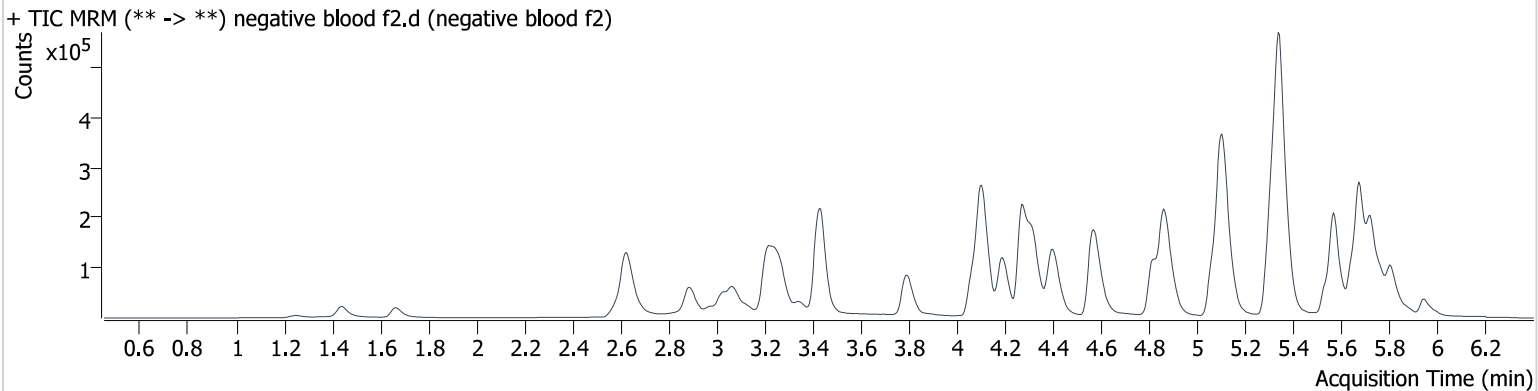
# AM #28 Multi-Drug Quant. Results

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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-F2  
**Injection Volume** 3  
**Acq. Date-Time** 1/10/2024 8:49:14 AM  
**Sample Info.**

**Data File** negative blood f2.d  
**Sample** negative blood f2  
**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

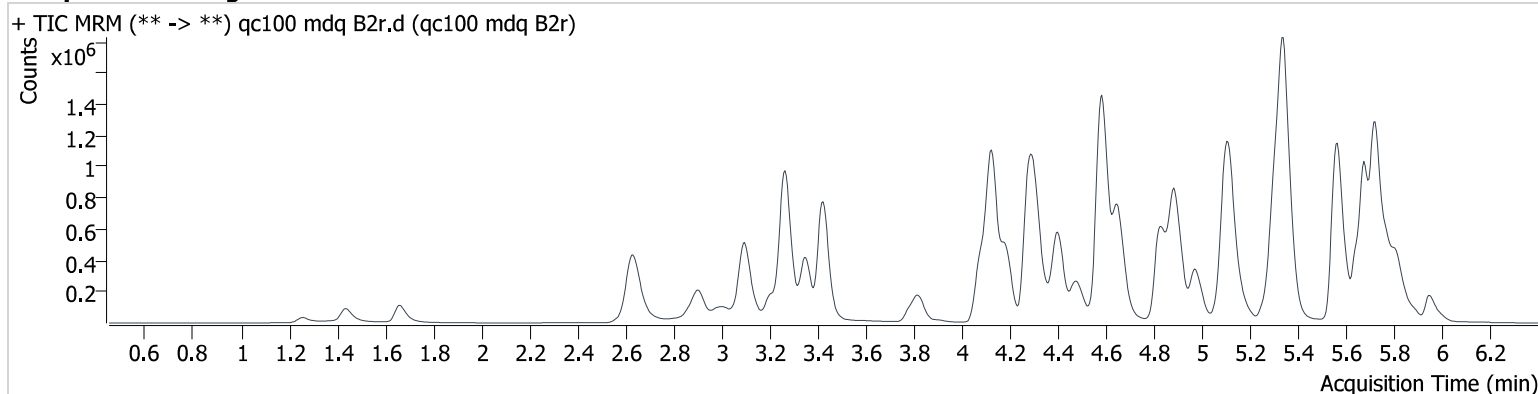


# AM #28 Multi-Drug Quant. Results

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**Calibration Last Update** 1/10/2024 12:38:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	qc100 mdq B2r.d
<b>Type</b>	Sample	<b>Sample</b>	qc100 mdq B2r
<b>Acq. Method</b>	mdqp1 121523.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B2	<b>Comment</b>	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.
<b>Injection Volume</b>	3		
<b>Acq. Date-Time</b>	1/10/2024 8:58:06 AM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.771	313466	8410.9	92.20	14347.1	124477	95.492 ng/ml
Amphetamine	3.098	369818	4642.5	260.21	260429.4	142818	83.976 ng/ml
Bupropion	4.826	1008055	121340.3	72.77	124362.8	381974	84.140 ng/ml
Citalopram	5.288	694330	379075.4	38.89	343123.4	314273	91.926 ng/ml
Dihydrocodeine	2.604	114043	883.1	66.10	2514.8	76781	98.970 ng/ml
Diphenhydramine	5.343	2197478	448236.2	33.32	102426.3	1194550	80.632 ng/ml
Doxylamine	4.582	2502400	830940.4	93.74	336275.9	741835	102.744 ng/ml
EDDP	5.311	900597	∞	42.84	∞	456205	93.355 ng/ml
Hydrocodone	3.084	274561	∞	40.14	∞	156460	99.398 ng/ml
Hydromorphone	1.662	197553	∞	69.05	∞	67578	93.052 ng/ml
Lorazepam	5.749	19157	1903.6	38.06	234.3	105721	95.846 ng/ml
Methamphetamine	3.266	1323468	∞	38.14	17196.2	421873	93.231 ng/ml
Morphine	1.261	36249	10898.1	19.10	896.0	6212	89.017 ng/ml
Nordiazepam	5.892	49948	5130.8	61.61	3559.5	16224	101.097 ng/ml
Norhydrocodone	3.136	47627	1506.6	24.51	2572.5	42549	94.643 ng/ml
Noroxycodone	2.987	162402	∞	51.50	∞	56993	100.878 ng/ml
Oxycodone	2.904	492208	∞	29.55	8256.7	225763	100.530 ng/ml
Promethazine	5.568	884424	∞	44.73	17197.3	526529	95.910 ng/ml
Quetiapine	5.544	1175346	307952.5	64.41	280447.9	195006	108.435 ng/ml
Sertraline	5.787	155480	∞	92.07	∞	66030	99.652 ng/ml
Zolpidem	4.885	1720060	691205.4	28.53	11816516.8	698426	101.497 ng/ml

control run after negative blood injection the next day.

# AM #28 Multi-Drug Quant. Results

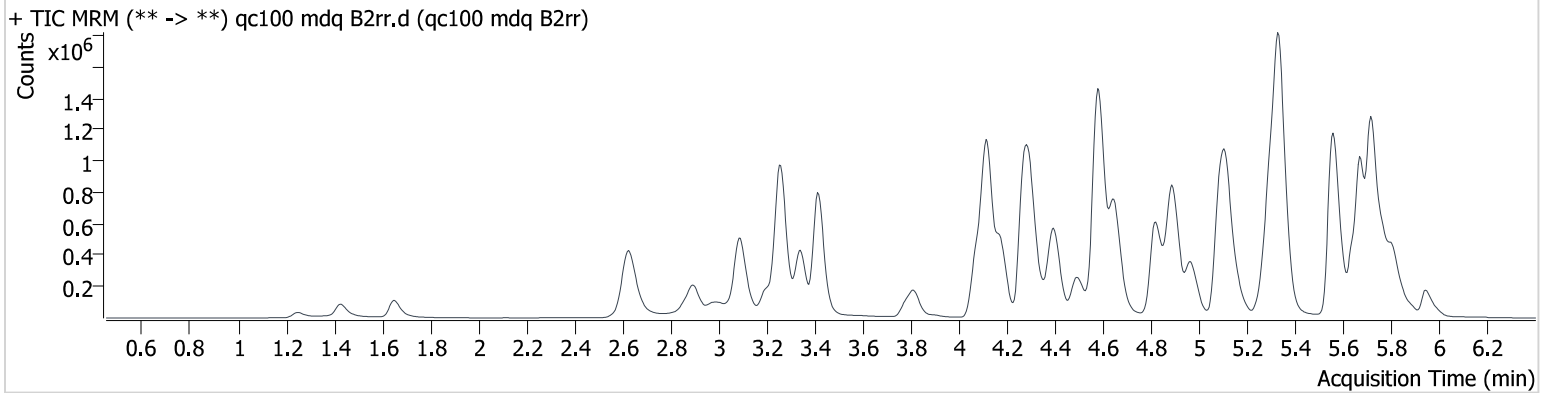
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-B2  
**Injection Volume** 3  
**Acq. Date-Time** 1/10/2024 11:43:36 AM  
**Sample Info.**

**Data File** qc100 mdq B2rr.d  
**Sample** qc100 mdq B2rr  
**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



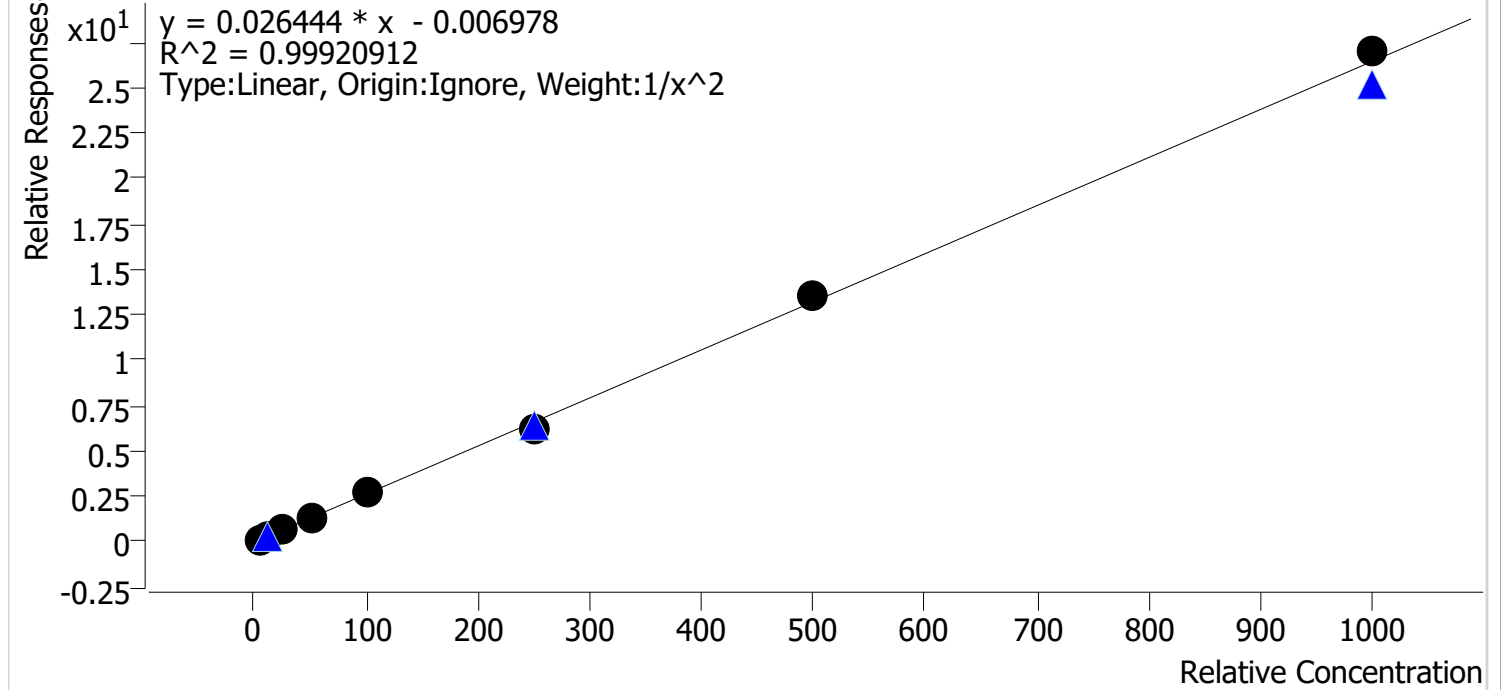
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	309478	∞	95.52	∞	127293	92.202 ng/ml
Amphetamine	3.093	364994	6077.1	259.67	4728.9	138332	85.586 ng/ml
Bupropion	4.820	985581	132339.4	75.05	79755.1	364560	86.204 ng/ml
Citalopram	5.278	704184	∞	38.05	376822.8	320285	91.481 ng/ml
Dihydrocodeine	2.604	111808	1498.7	67.64	8068.0	74445	100.088 ng/ml
Diphenhydramine	5.338	2217071	547812.1	32.75	66199.2	1210874	80.255 ng/ml
Doxylamine	4.582	2508284	789407.8	93.20	235399.5	738347	103.474 ng/ml
EDDP	5.306	906842	189483.7	43.02	2912507.9	460915	93.042 ng/ml
Hydrocodone	3.074	274024	∞	40.53	∞	154300	100.598 ng/ml
Hydromorphone	1.652	196324	∞	72.28	∞	64228	97.273 ng/ml
Lorazepam	5.744	18661	∞	36.88	117.0	103622	95.265 ng/ml
Methamphetamine	3.261	1334911	5201.7	37.92	3342.6	424628	93.436 ng/ml
Morphine	1.251	37676	16171.2	18.50	1491.8	5709	100.657 ng/ml
Nordiazepam	5.892	49300	21978.8	62.06	3125.0	17248	93.882 ng/ml
Norhydrocodone	3.126	47048	4592.5	23.88	2163.4	42402	93.823 ng/ml
Noroxycodone	2.976	164529	∞	52.61	∞	55673	104.627 ng/ml
Oxycodone	2.894	488050	∞	29.85	4458.3	228870	98.320 ng/ml
Promethazine	5.563	896226	∞	43.61	20485.8	525908	97.300 ng/ml
Quetiapine	5.544	1188383	135735.5	64.15	98354.6	195924	109.129 ng/ml
Sertraline	5.787	163824	∞	89.44	∞	70367	98.517 ng/ml
Zolpidem	4.890	1733795	1051528.8	29.01	1084324.8	722376	98.908 ng/ml

control run after sample injections the next day.

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

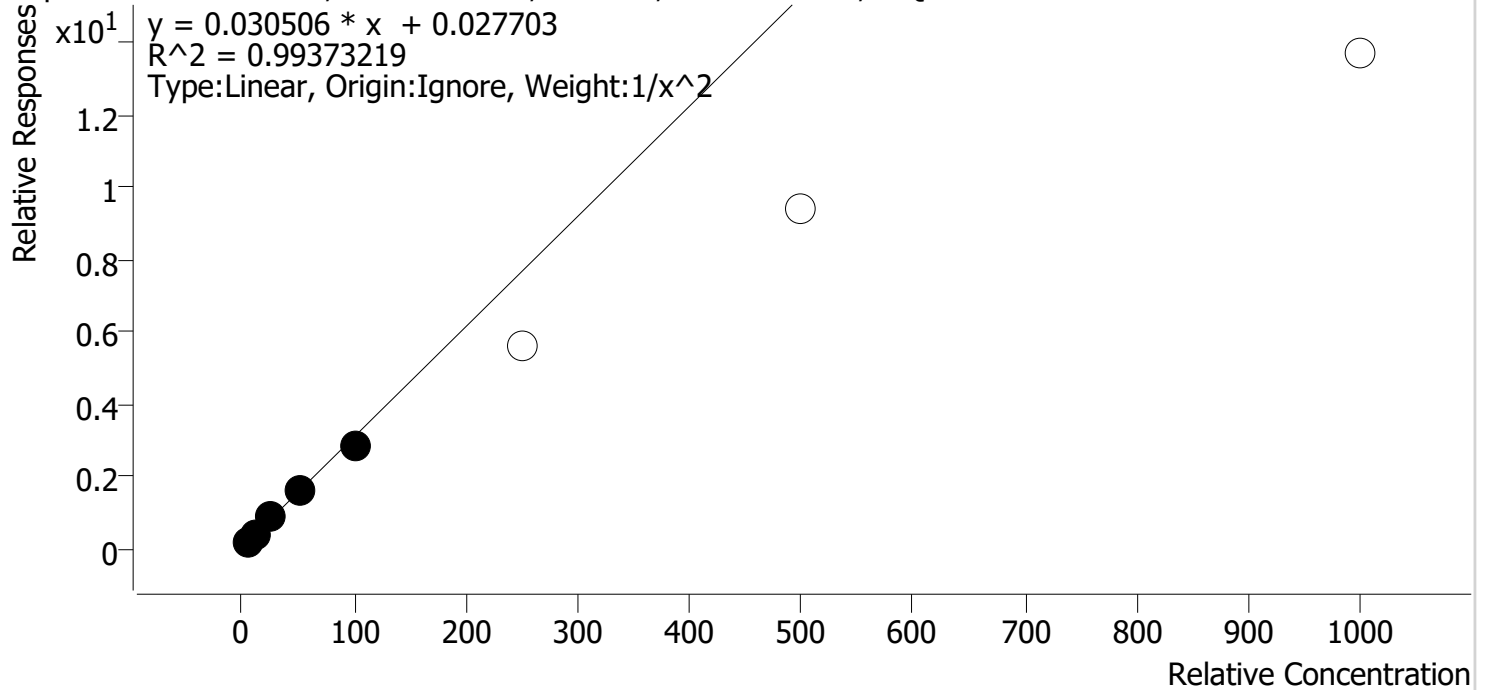


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.8	97.5
cal 3 mdq	3	✓	25.0	24.8	99.2
cal 4 mdq	4	✓	50.0	50.3	100.5
cal 5 mdq	5	✓	100.0	100.9	100.9
cal 6 mdq	6	✓	250.0	238.9	95.6
cal 7 mdq	7	✓	500.0	514.3	102.9
cal 8 mdq	8	✓	1000.0	1020.5	102.0

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 3 QCs

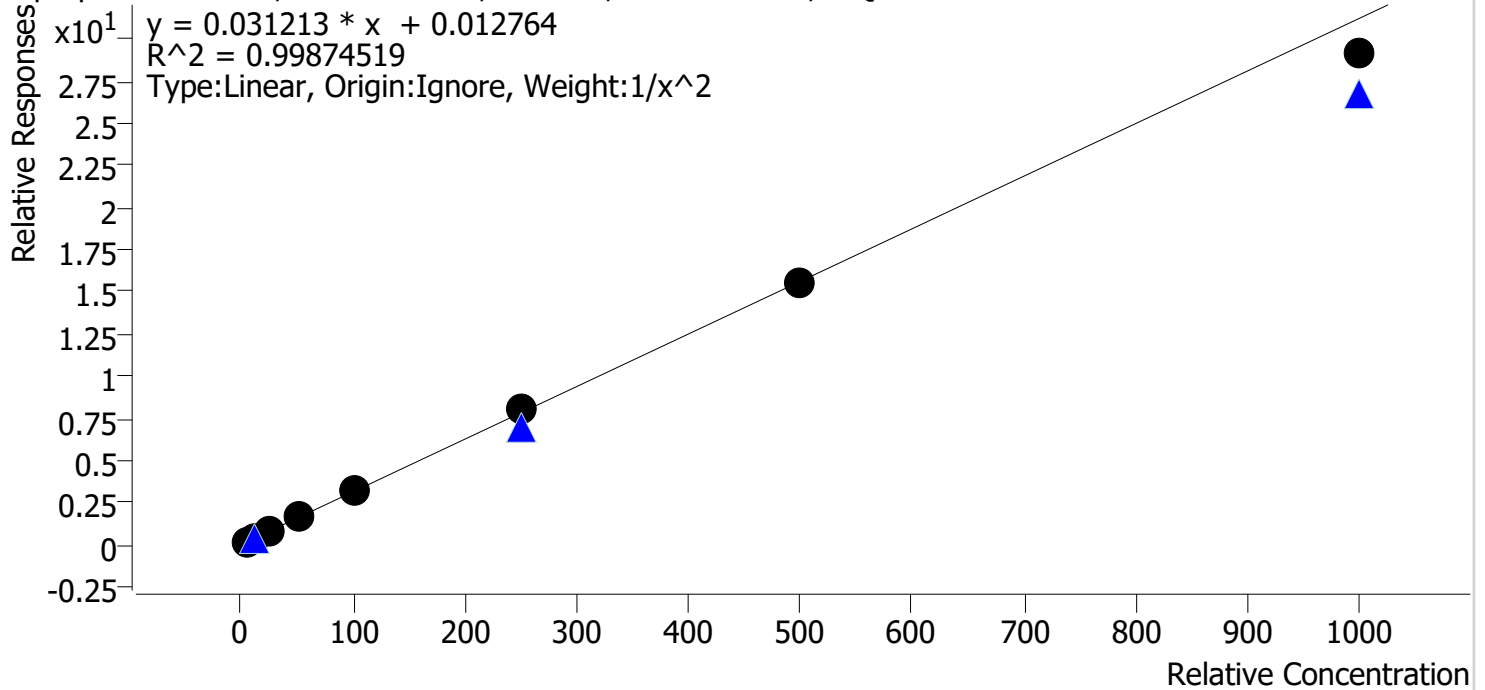


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.1
cal 2 mdq	2	✓	10.0	10.6	106.4
cal 3 mdq	3	✓	25.0	26.2	104.8
cal 4 mdq	4	✓	50.0	50.5	101.0
cal 5 mdq	5	✓	100.0	91.7	91.7
cal 6 mdq	6	✗	250.0	183.7	73.5
cal 7 mdq	7	✗	500.0	308.6	61.7
cal 8 mdq	8	✗	1000.0	447.7	44.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

Bupropion - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

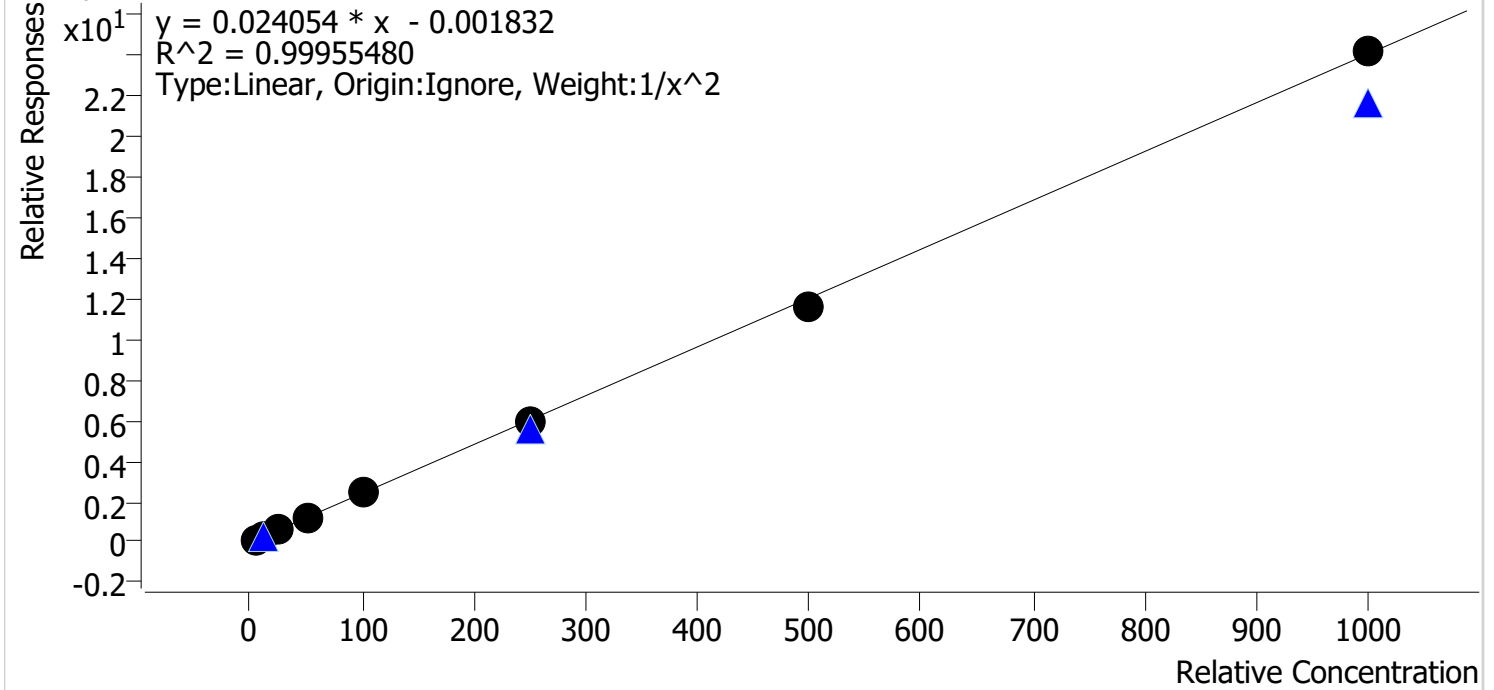


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.2
cal 2 mdq	2	✓	10.0	10.3	102.5
cal 3 mdq	3	✓	25.0	25.3	101.2
cal 4 mdq	4	✓	50.0	51.0	102.0
cal 5 mdq	5	✓	100.0	101.3	101.3
cal 6 mdq	6	✓	250.0	254.9	102.0
cal 7 mdq	7	✓	500.0	496.7	99.3
cal 8 mdq	8	✓	1000.0	933.1	93.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

Citalopram - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

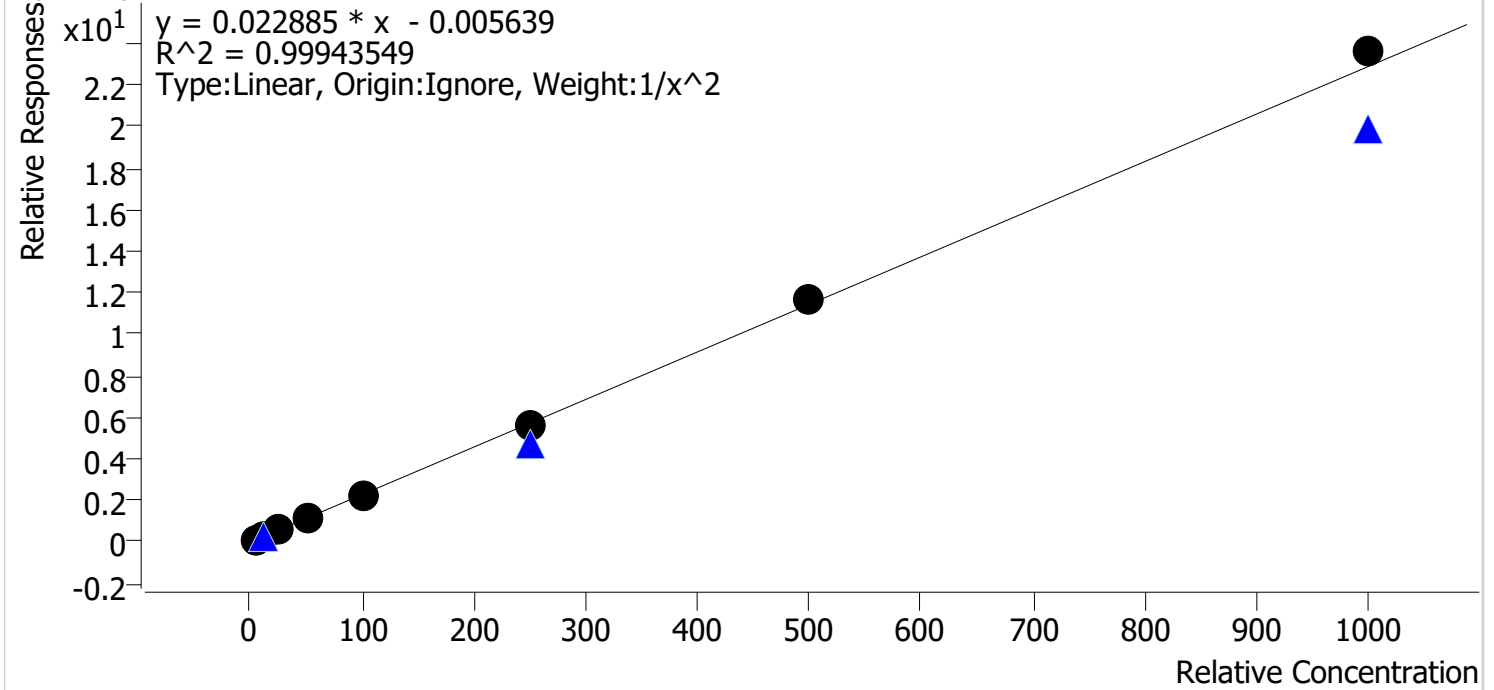


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.4
cal 2 mdq	2	✓	10.0	10.3	102.5
cal 3 mdq	3	✓	25.0	25.4	101.6
cal 4 mdq	4	✓	50.0	49.9	99.8
cal 5 mdq	5	✓	100.0	101.0	101.0
cal 6 mdq	6	✓	250.0	248.4	99.3
cal 7 mdq	7	✓	500.0	484.0	96.8
cal 8 mdq	8	✓	1000.0	1004.8	100.5

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



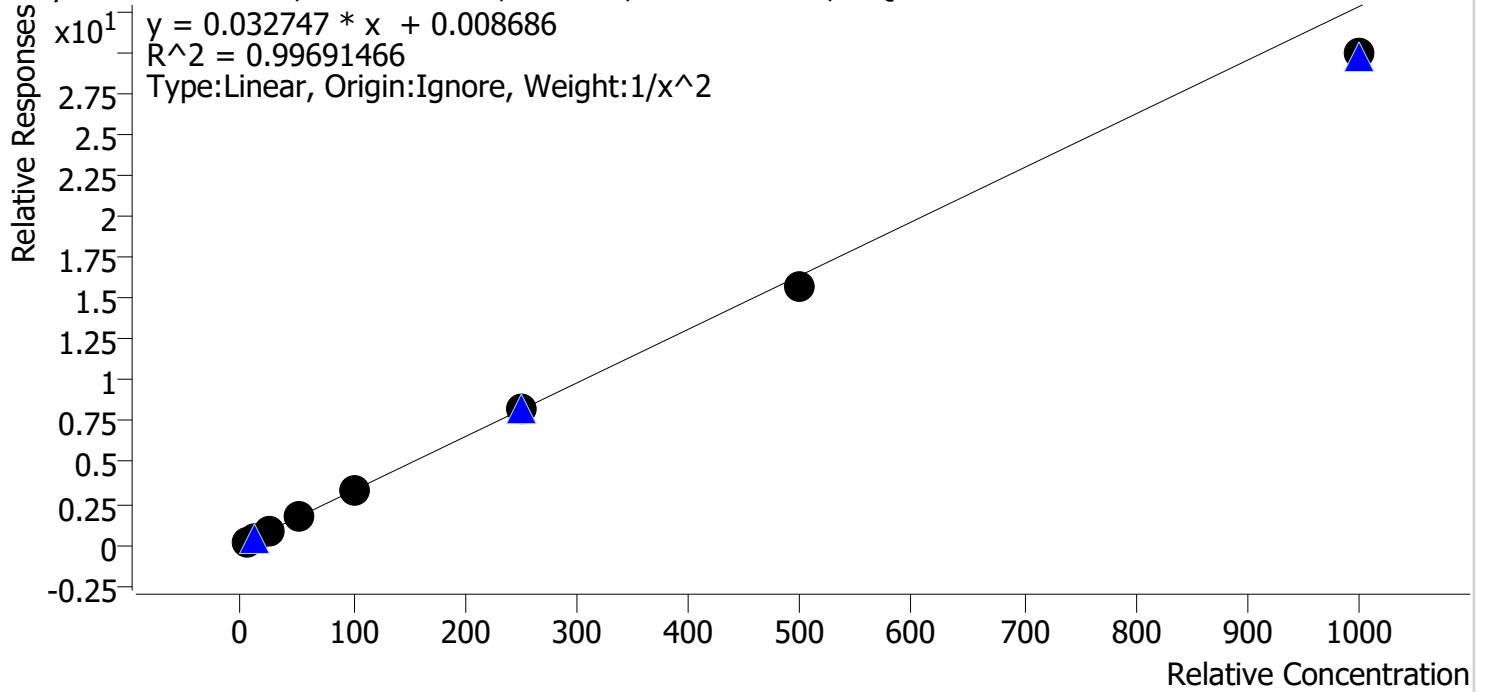
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.2
cal 2 mdq	2	✓	10.0	9.9	98.6
cal 3 mdq	3	✓	25.0	24.7	99.0
cal 4 mdq	4	✓	50.0	48.6	97.2
cal 5 mdq	5	✓	100.0	98.8	98.8
cal 6 mdq	6	✓	250.0	249.2	99.7
cal 7 mdq	7	✓	500.0	512.0	102.4
cal 8 mdq	8	✓	1000.0	1031.5	103.1



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\lam 27-28\010924\QuantResults\lam28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

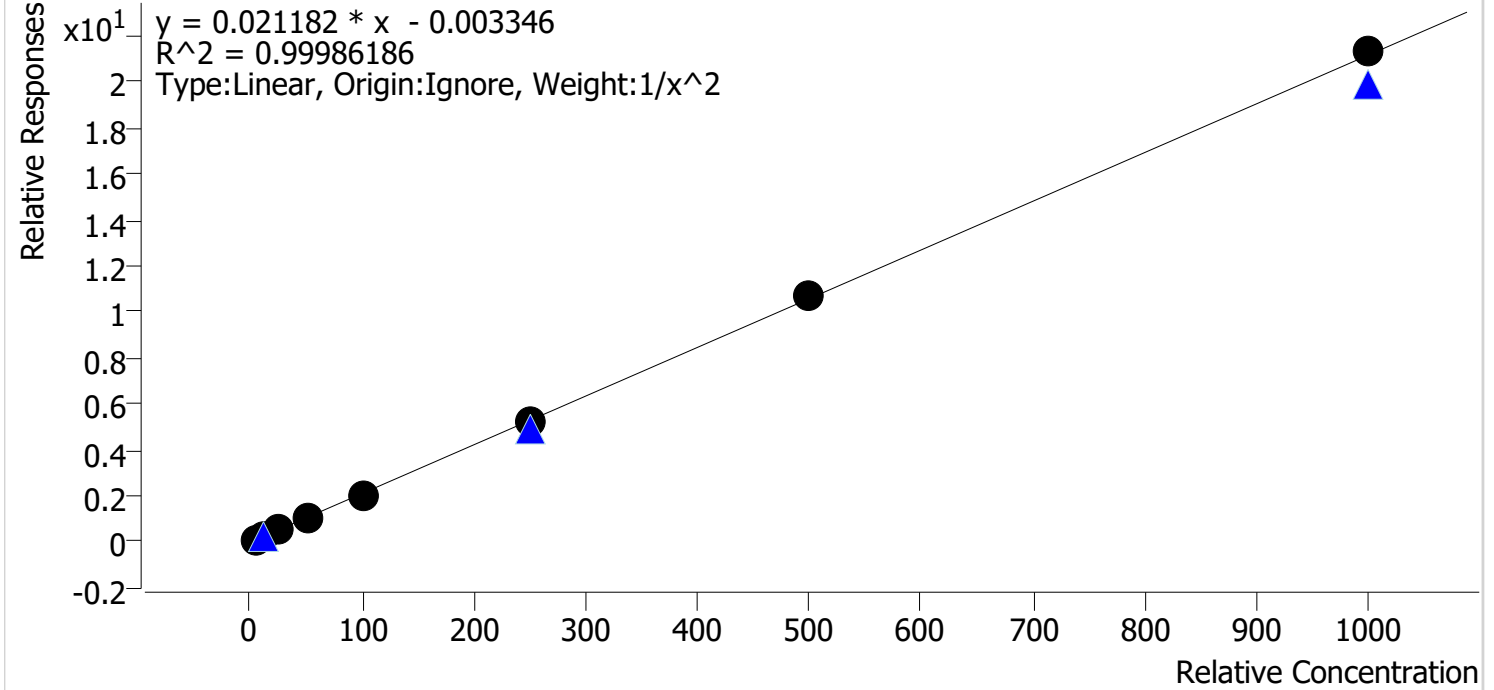


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.7
cal 2 mdq	2	✓	10.0	10.1	101.5
cal 3 mdq	3	✓	25.0	26.2	104.7
cal 4 mdq	4	✓	50.0	52.8	105.7
cal 5 mdq	5	✓	100.0	102.9	102.9
cal 6 mdq	6	✓	250.0	250.7	100.3
cal 7 mdq	7	✓	500.0	480.1	96.0
cal 8 mdq	8	✓	1000.0	912.4	91.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

EDDP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



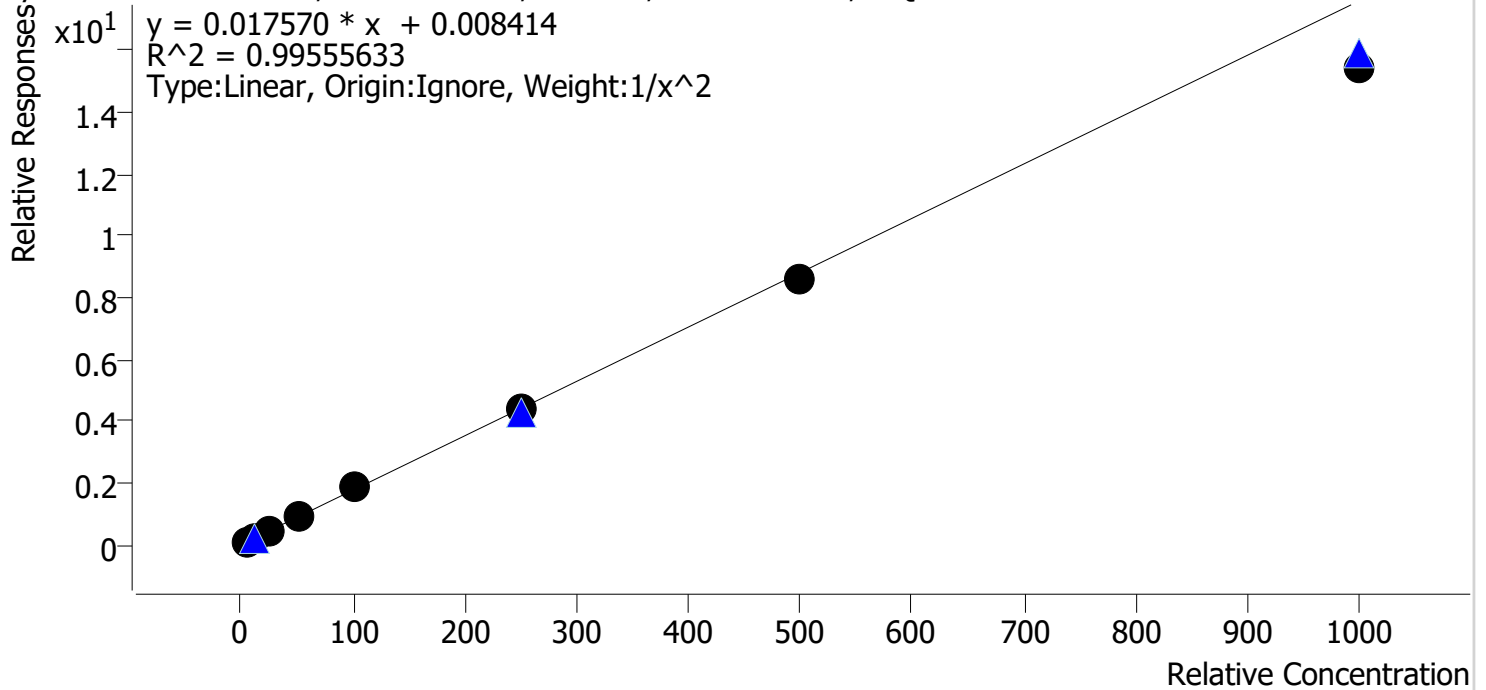
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.7
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	24.8	99.1
cal 4 mdq	4	✓	50.0	50.1	100.3
cal 5 mdq	5	✓	100.0	98.3	98.3
cal 6 mdq	6	✓	250.0	249.1	99.6
cal 7 mdq	7	✓	500.0	506.2	101.2
cal 8 mdq	8	✓	1000.0	1007.4	100.7

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone

**Internal Standard** Hydrocodone-D6

Hydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

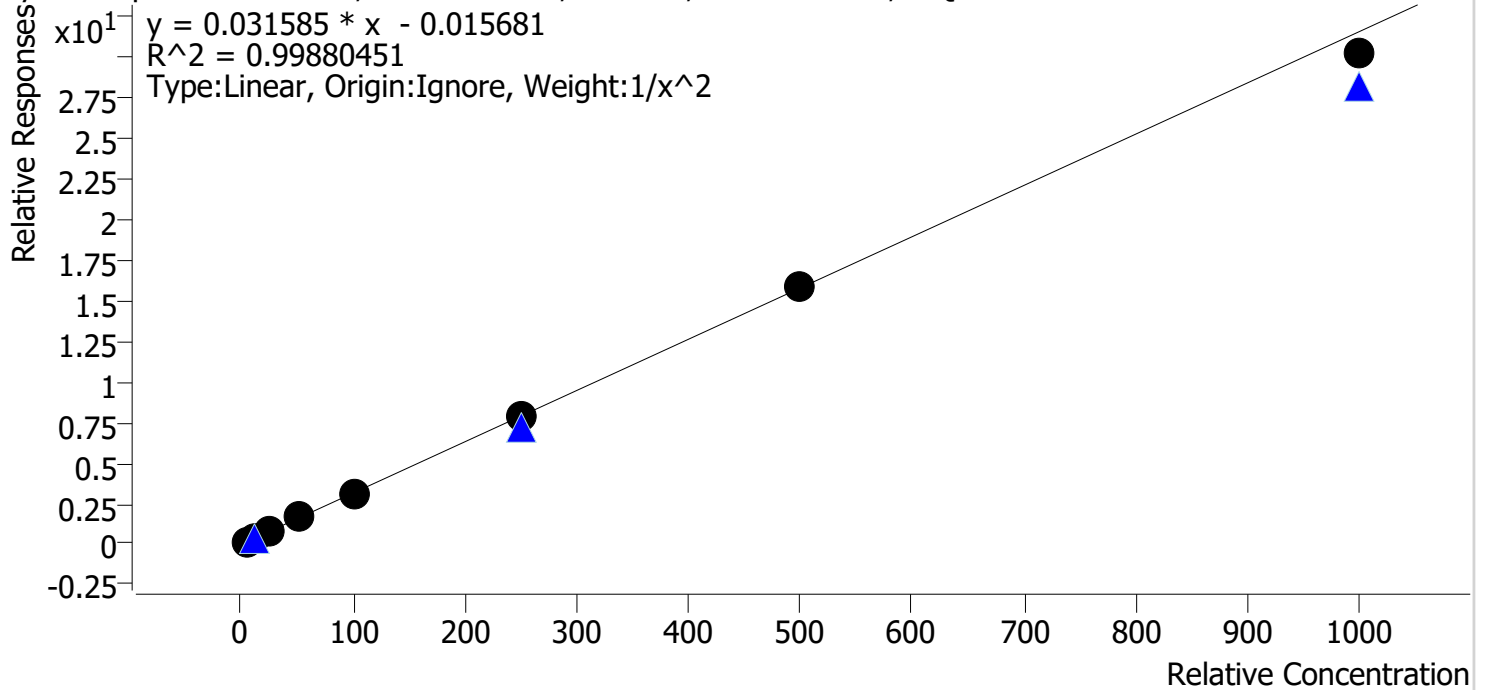


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.8
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	26.4	105.4
cal 4 mdq	4	✓	50.0	52.2	104.4
cal 5 mdq	5	✓	100.0	105.2	105.2
cal 6 mdq	6	✓	250.0	252.1	100.9
cal 7 mdq	7	✓	500.0	487.9	97.6
cal 8 mdq	8	✓	1000.0	878.4	87.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\lam 27-28\010924\QuantResults\lam28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



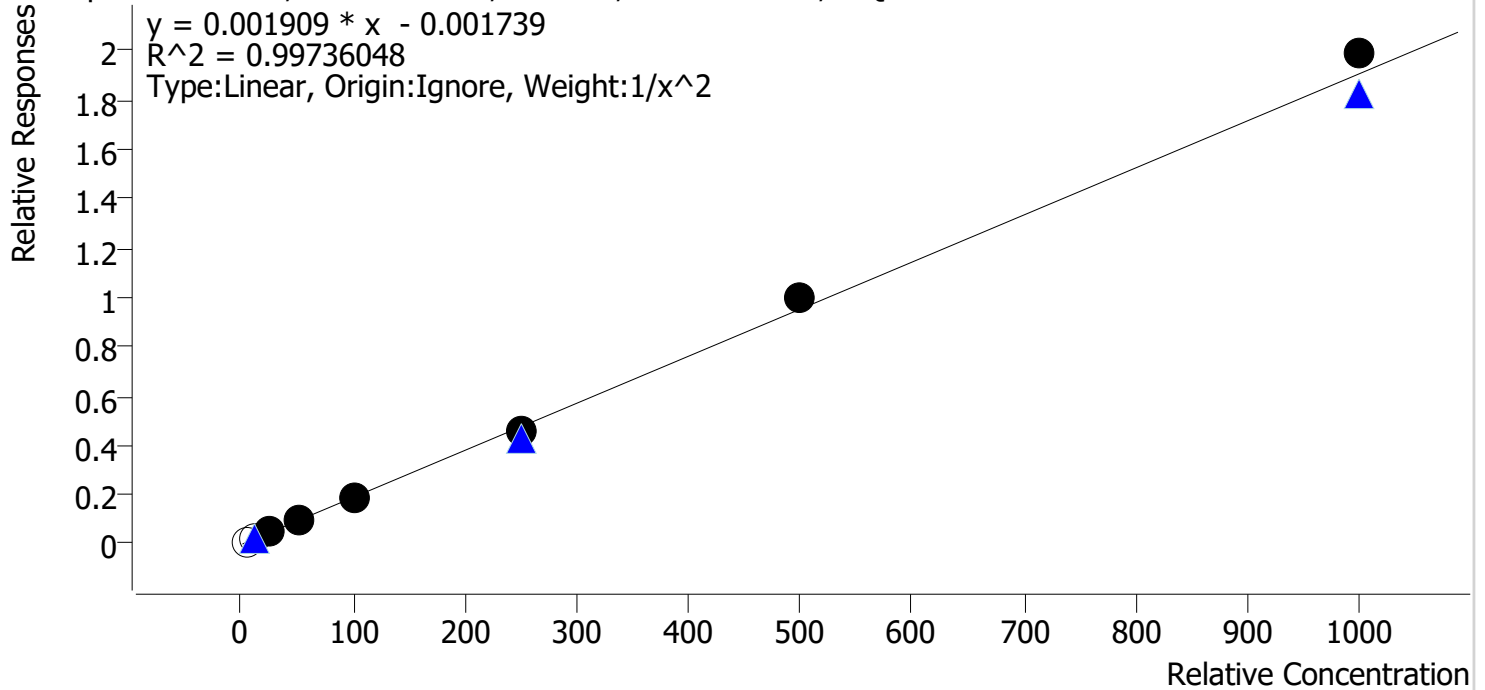
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.5
cal 2 mdq	2	✓	10.0	10.0	100.0
cal 3 mdq	3	✓	25.0	24.9	99.6
cal 4 mdq	4	✓	50.0	53.2	106.3
cal 5 mdq	5	✓	100.0	98.0	98.0
cal 6 mdq	6	✓	250.0	250.3	100.1
cal 7 mdq	7	✓	500.0	503.4	100.7
cal 8 mdq	8	✓	1000.0	957.2	95.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Diazepam-D5

Lorazepam - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 3 QCs

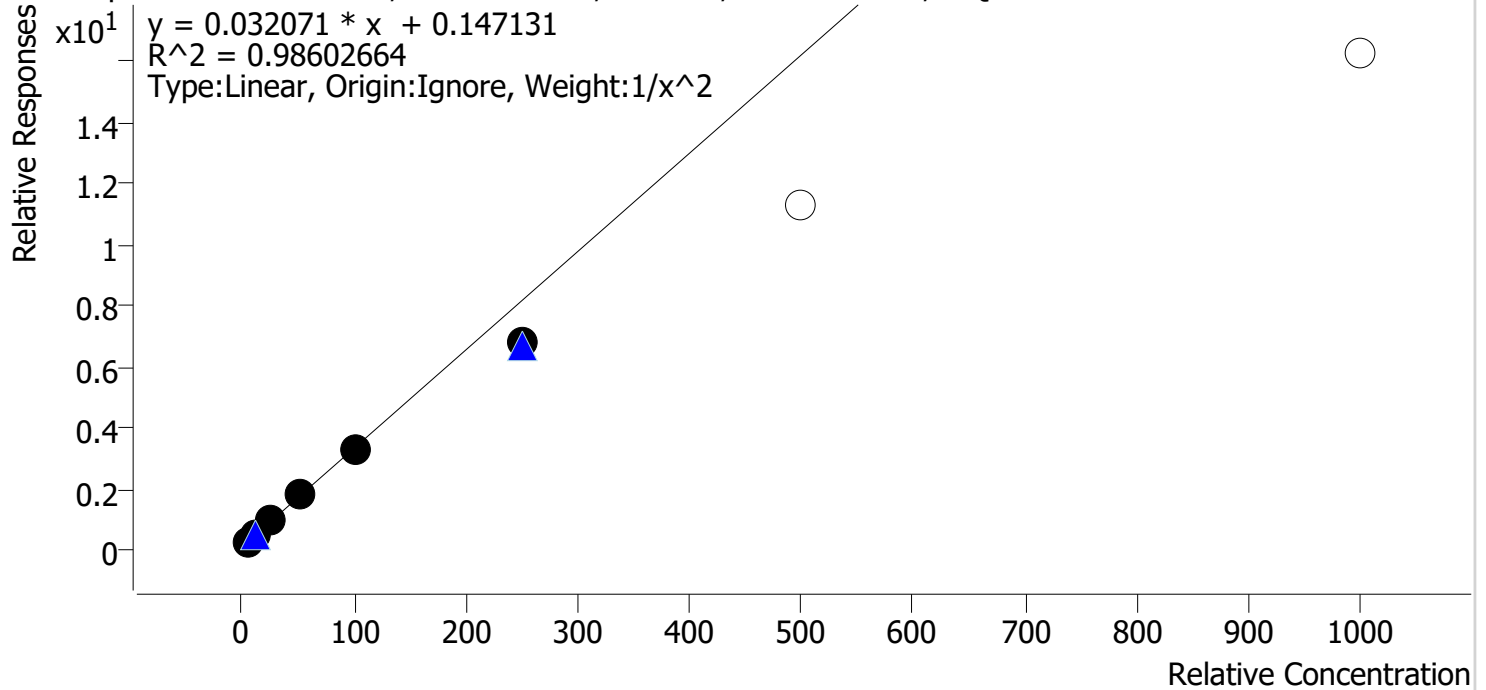


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	5.8	116.9
cal 2 mdq	2	x	10.0	11.7	117.0
cal 3 mdq	3	✓	25.0	25.6	102.6
cal 4 mdq	4	✓	50.0	48.2	96.5
cal 5 mdq	5	✓	100.0	97.3	97.3
cal 6 mdq	6	✓	250.0	238.0	95.2
cal 7 mdq	7	✓	500.0	520.6	104.1
cal 8 mdq	8	✓	1000.0	1043.0	104.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\lam 27-28\010924\QuantResults\lam28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** **Methamphetamine-D11**

Methamphetamine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 3 QCs

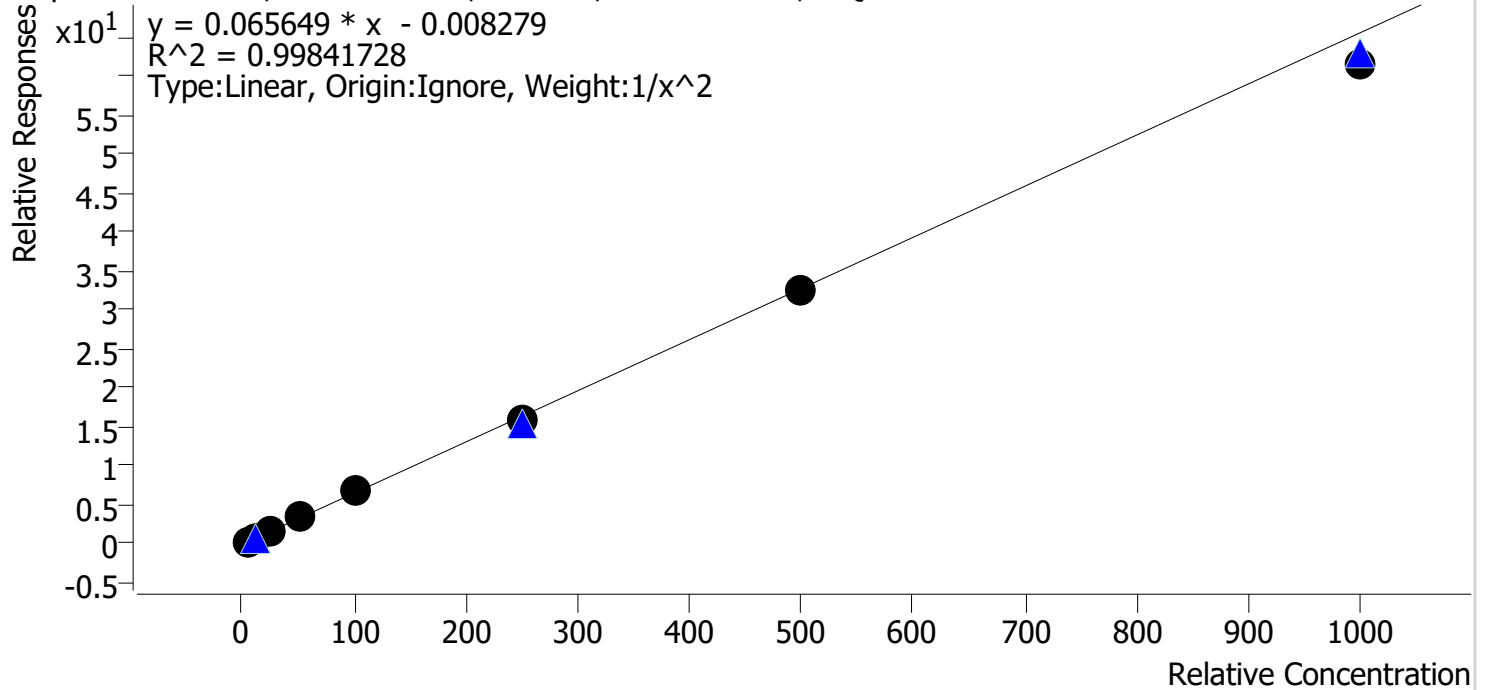


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	10.4	104.0
cal 3 mdq	3	✓	25.0	27.2	108.8
cal 4 mdq	4	✓	50.0	54.6	109.1
cal 5 mdq	5	✓	100.0	98.8	98.8
cal 6 mdq	6	✓	250.0	208.7	83.5
cal 7 mdq	7	✗	500.0	348.5	69.7
cal 8 mdq	8	✗	1000.0	501.3	50.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

Morphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

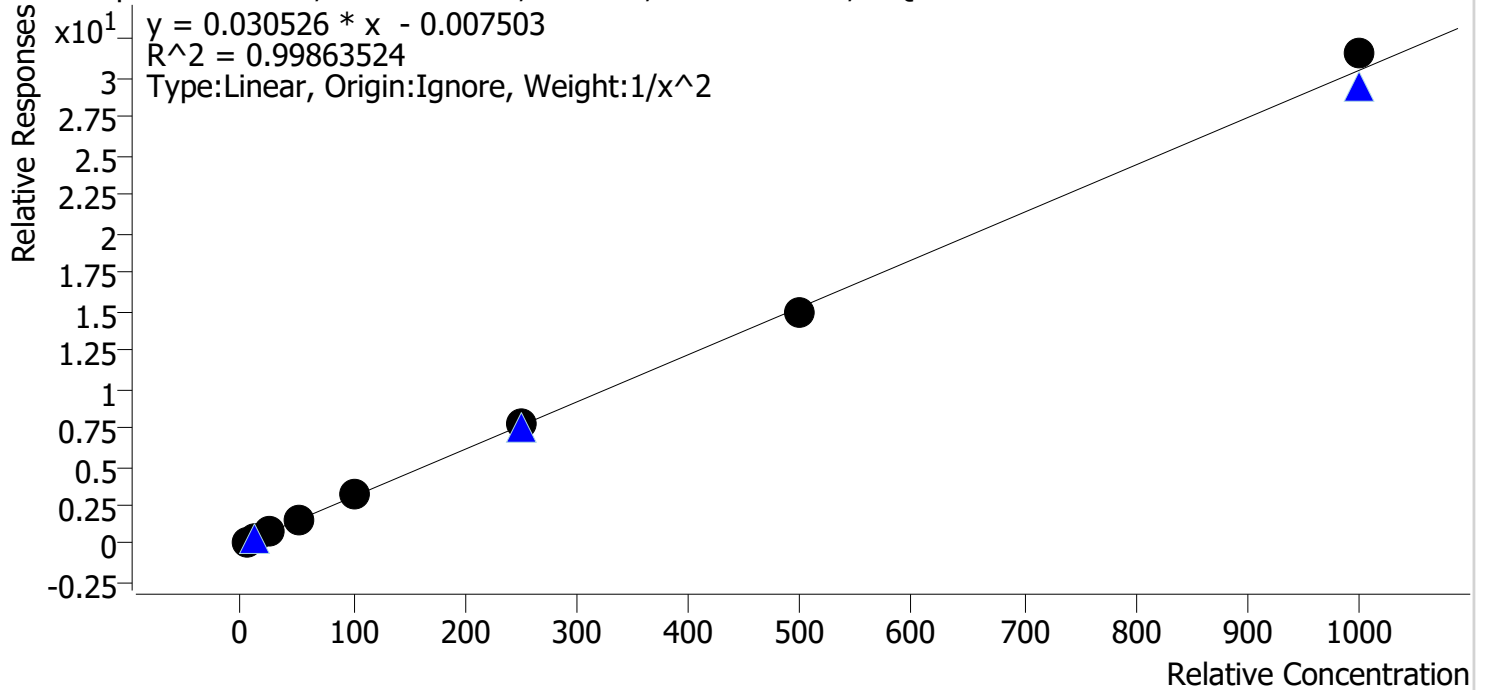


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.5
cal 2 mdq	2	✓	10.0	10.3	102.7
cal 3 mdq	3	✓	25.0	26.0	104.0
cal 4 mdq	4	✓	50.0	51.4	102.9
cal 5 mdq	5	✓	100.0	102.3	102.3
cal 6 mdq	6	✓	250.0	244.4	97.7
cal 7 mdq	7	✓	500.0	493.1	98.6
cal 8 mdq	8	✓	1000.0	942.1	94.2

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin		
<b>Last Cal. Update</b>	1/10/2024 12:38 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Nordiazepam	<b>Internal Standard</b>	Nordiazepam-D5

Nordiazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



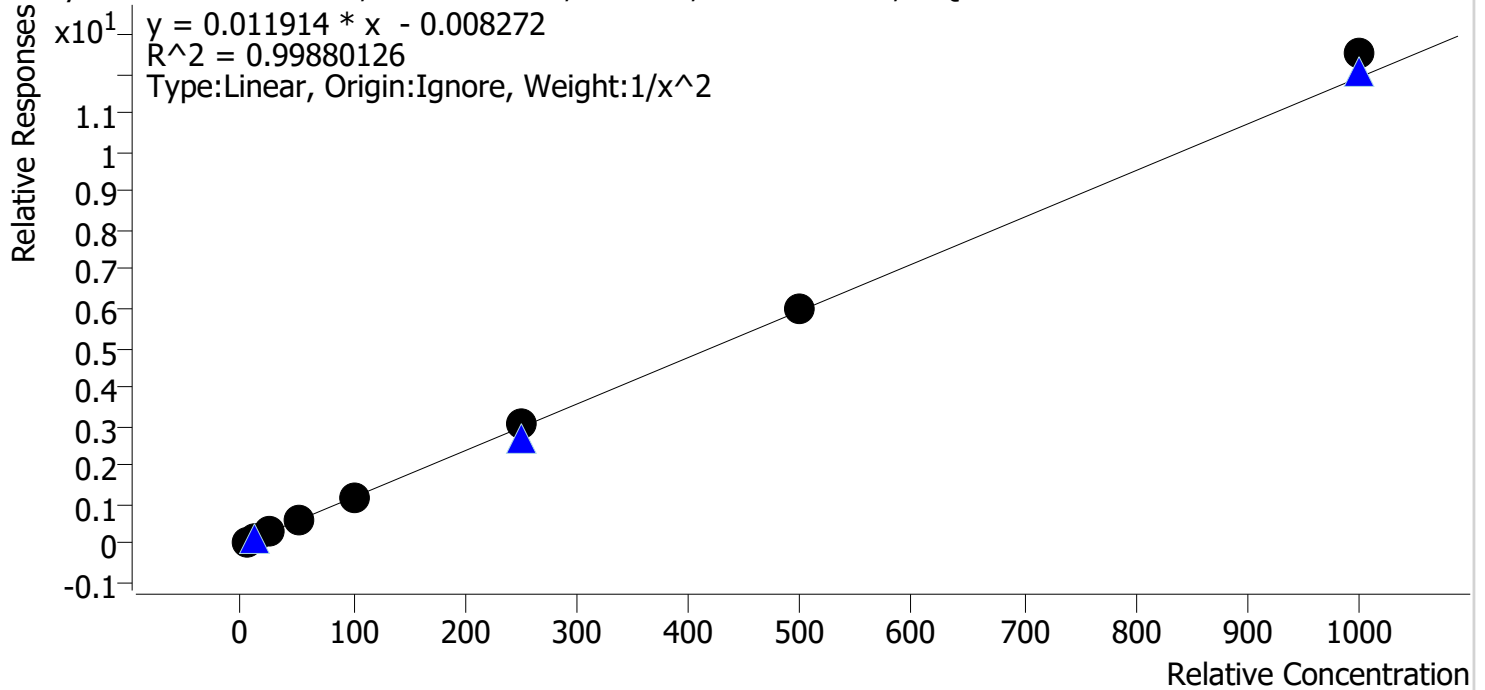
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	23.6	94.5
cal 4 mdq	4	✓	50.0	49.0	98.0
cal 5 mdq	5	✓	100.0	103.7	103.7
cal 6 mdq	6	✓	250.0	253.5	101.4
cal 7 mdq	7	✓	500.0	486.3	97.3
cal 8 mdq	8	✓	1000.0	1035.3	103.5



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

Norhydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

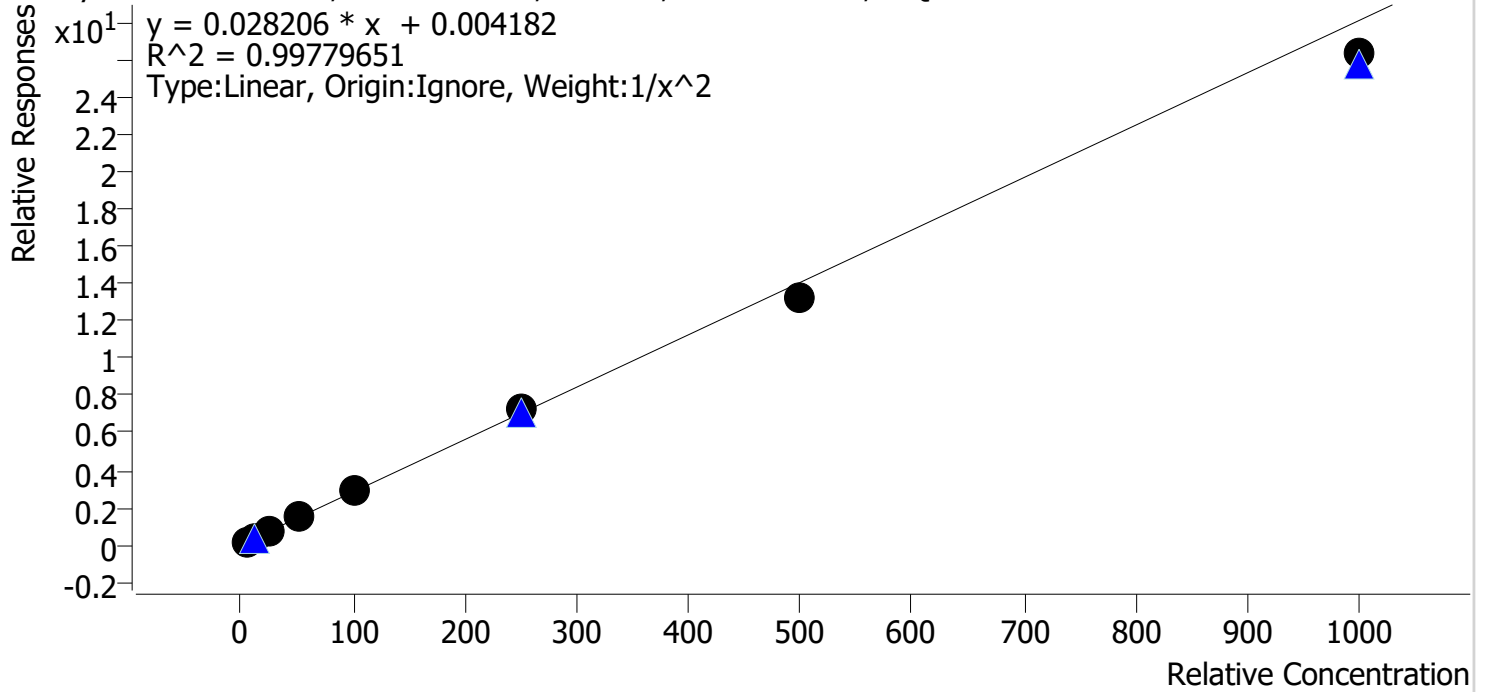


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.0
cal 2 mdq	2	✓	10.0	9.7	96.7
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	48.7	97.3
cal 5 mdq	5	✓	100.0	96.6	96.6
cal 6 mdq	6	✓	250.0	254.5	101.8
cal 7 mdq	7	✓	500.0	501.3	100.3
cal 8 mdq	8	✓	1000.0	1051.0	105.1

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin		
<b>Last Cal. Update</b>	1/10/2024 12:38 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Noroxycodone	<b>Internal Standard</b>	Noroxycodone-D3

Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



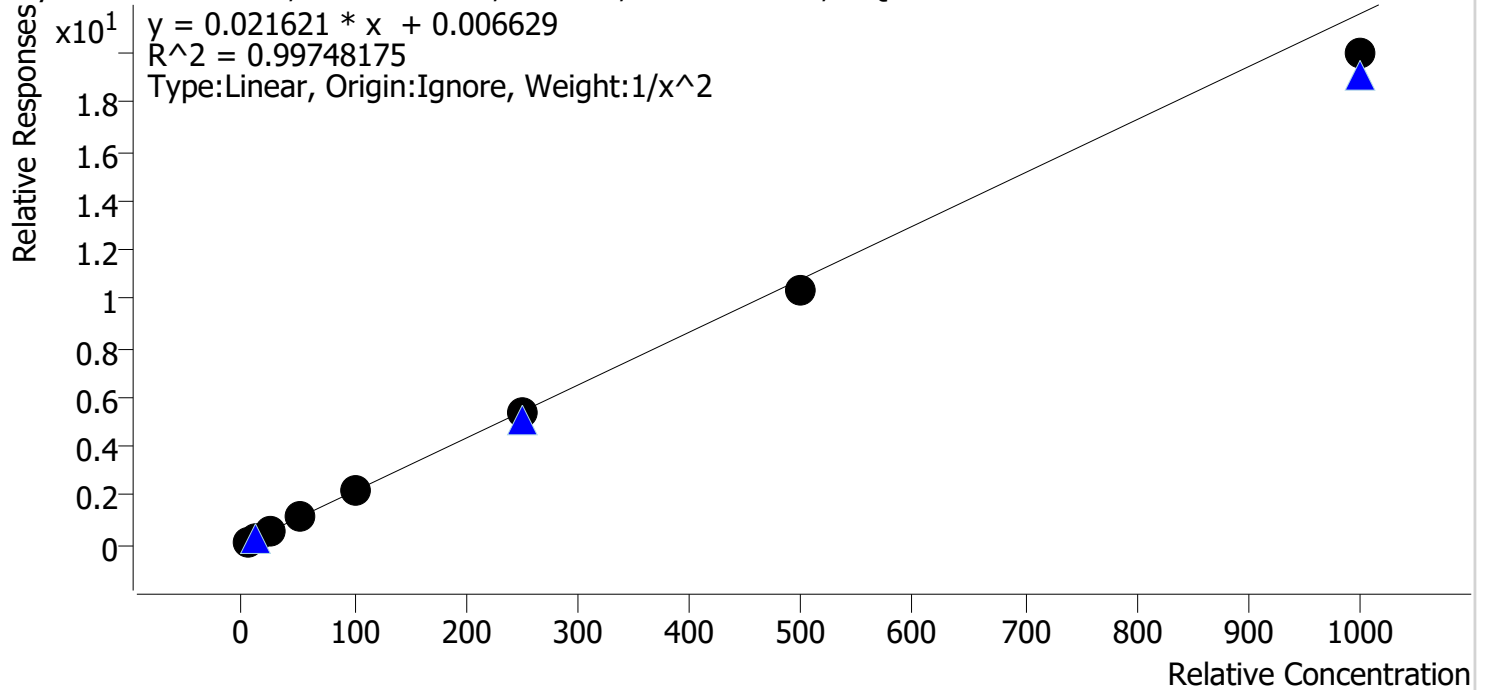
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.4
cal 2 mdq	2	✓	10.0	10.1	101.3
cal 3 mdq	3	✓	25.0	25.7	102.7
cal 4 mdq	4	✓	50.0	51.2	102.3
cal 5 mdq	5	✓	100.0	104.9	104.9
cal 6 mdq	6	✓	250.0	255.7	102.3
cal 7 mdq	7	✓	500.0	472.4	94.5
cal 8 mdq	8	✓	1000.0	936.7	93.7

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone

**Internal Standard** Oxycodone-D6

Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



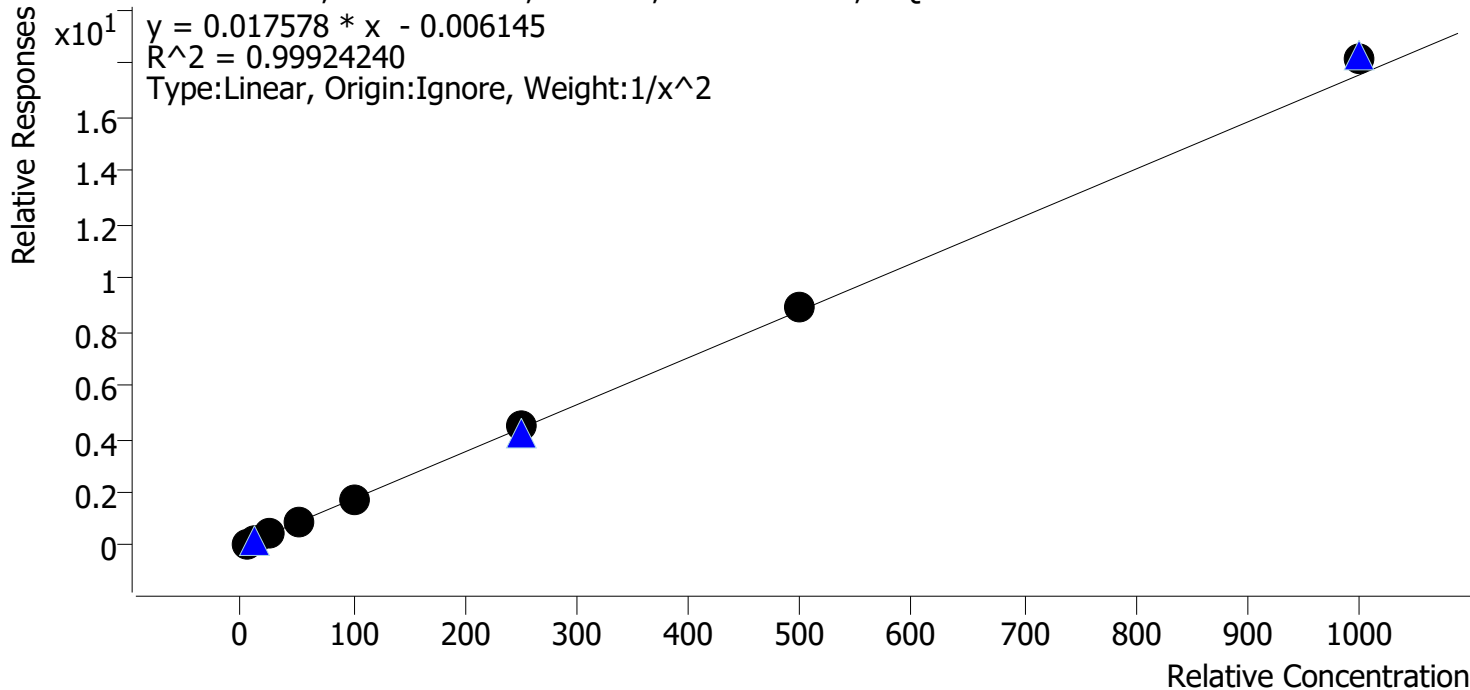
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.6
cal 2 mdq	2	✓	10.0	10.0	99.8
cal 3 mdq	3	✓	25.0	26.2	104.6
cal 4 mdq	4	✓	50.0	52.8	105.6
cal 5 mdq	5	✓	100.0	102.4	102.4
cal 6 mdq	6	✓	250.0	251.1	100.4
cal 7 mdq	7	✓	500.0	480.4	96.1
cal 8 mdq	8	✓	1000.0	924.8	92.5

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine

**Internal Standard** Promethazine-D3

Promethazine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs



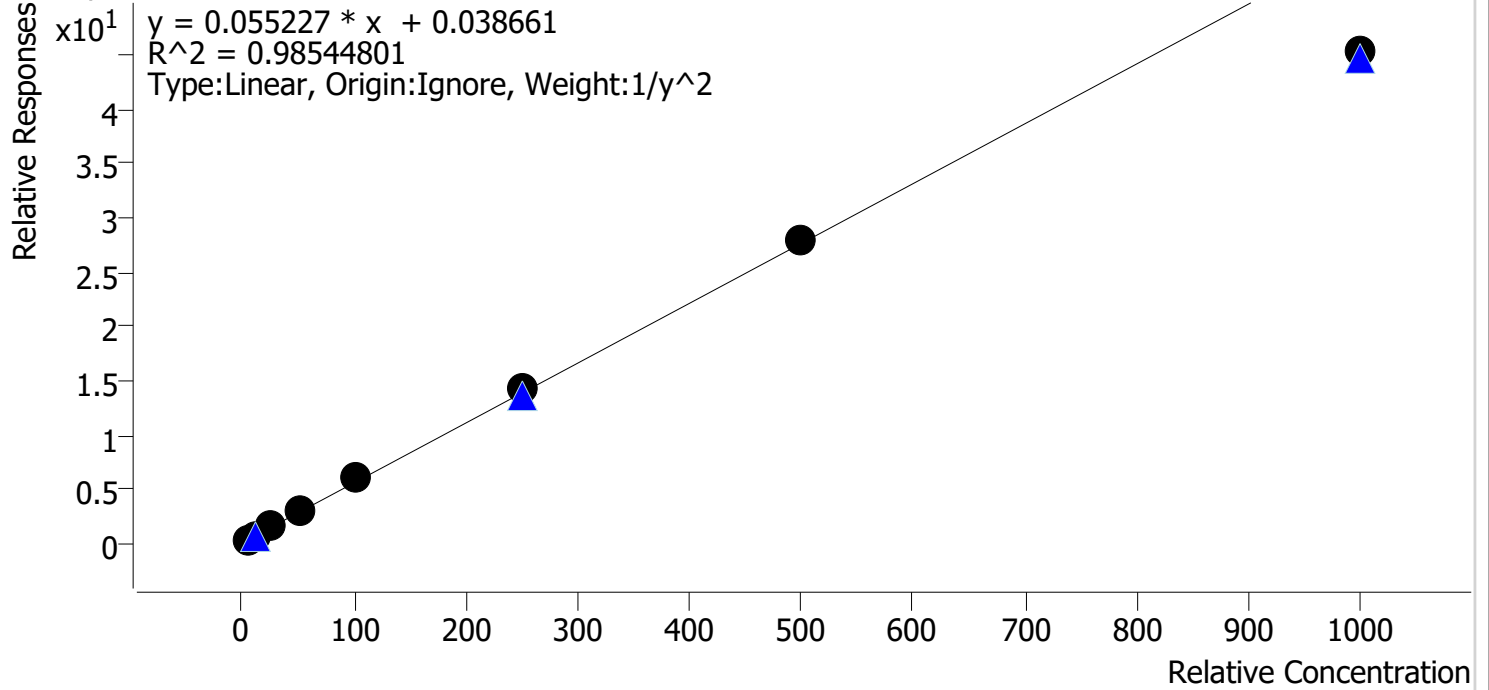
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.8	98.1
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	48.6	97.2
cal 5 mdq	5	✓	100.0	96.8	96.8
cal 6 mdq	6	✓	250.0	252.6	101.0
cal 7 mdq	7	✓	500.0	509.2	101.8
cal 8 mdq	8	✓	1000.0	1034.6	103.5

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\lam 27-28\010924\QuantResults\lam28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine

**Internal Standard** Quetiapine-D8

Quetiapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

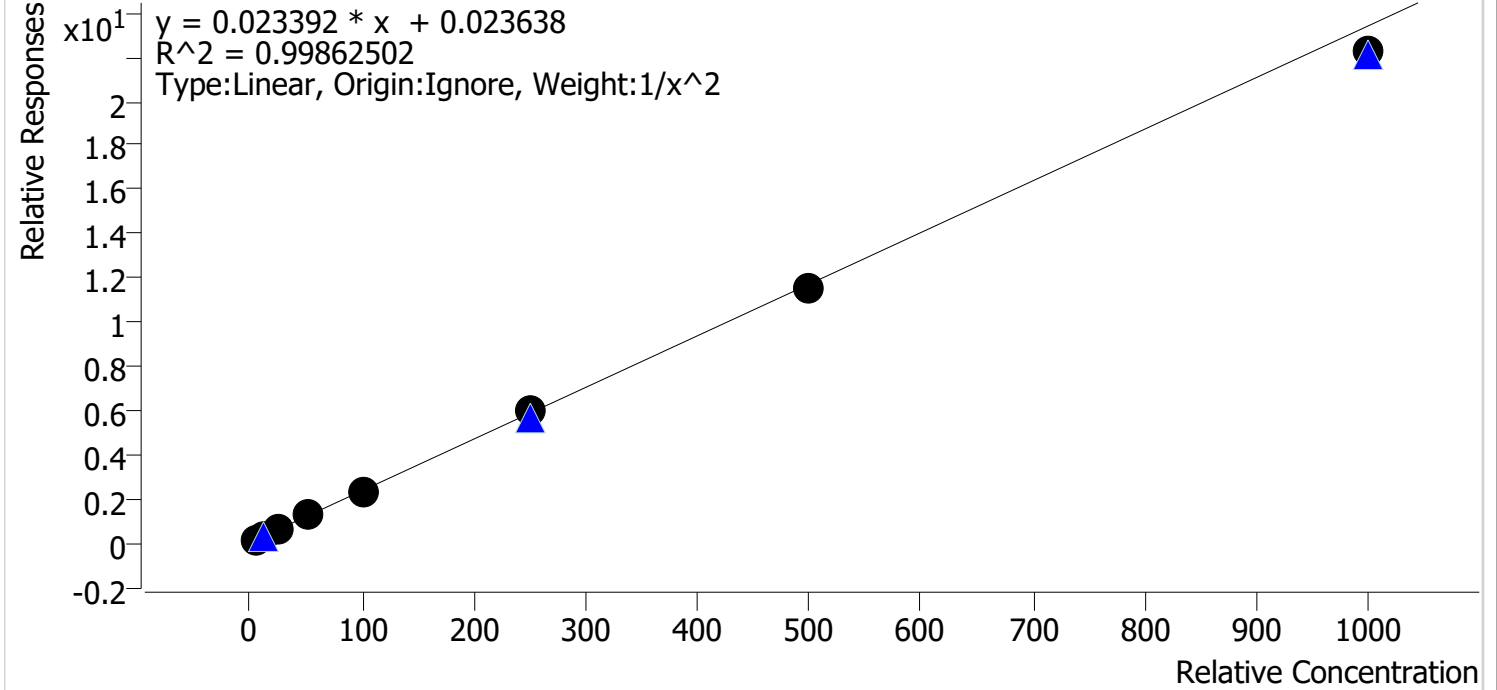


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.6
cal 2 mdq	2	✓	10.0	10.0	99.8
cal 3 mdq	3	✓	25.0	27.8	111.0
cal 4 mdq	4	✓	50.0	55.6	111.3
cal 5 mdq	5	✓	100.0	109.3	109.3
cal 6 mdq	6	✓	250.0	259.7	103.9
cal 7 mdq	7	✓	500.0	504.9	101.0
cal 8 mdq	8	✓	1000.0	820.7	82.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

Sertraline - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

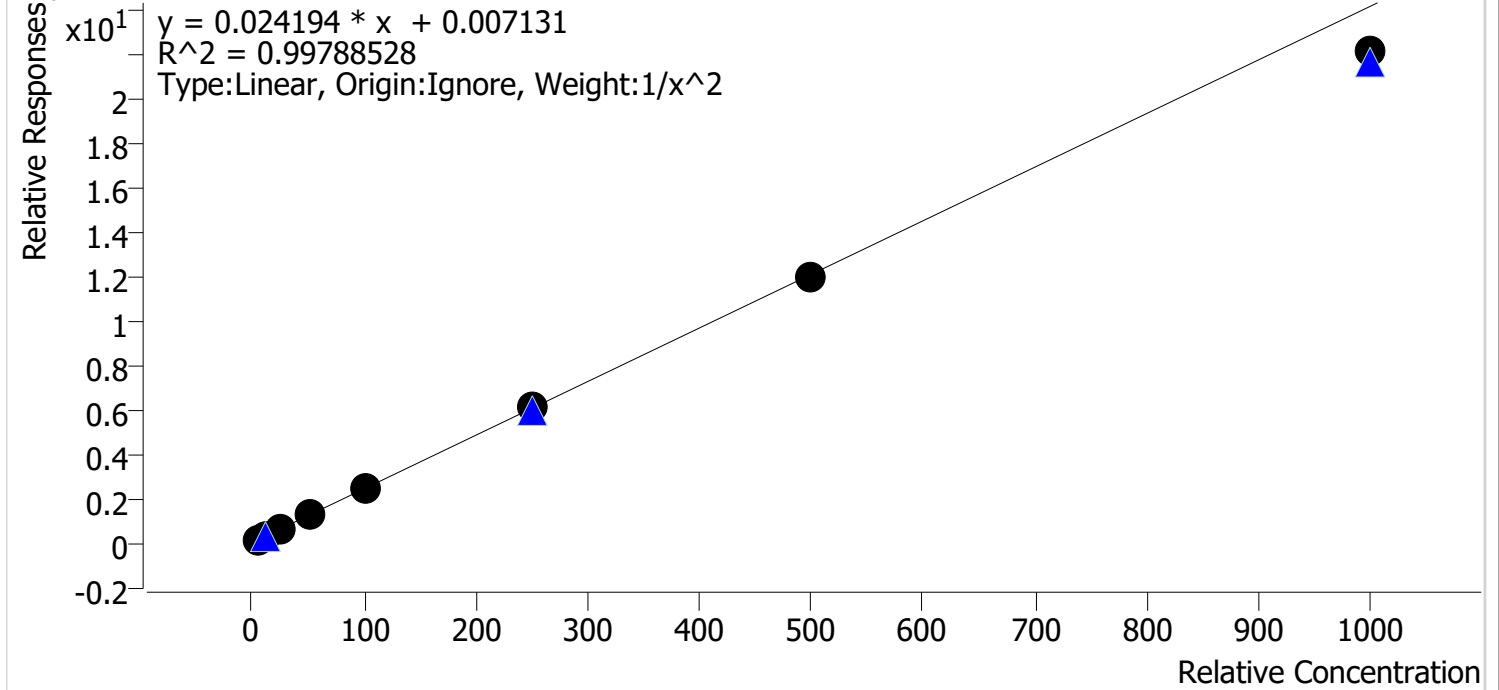


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	9.7	97.2
cal 3 mdq	3	✓	25.0	25.3	101.2
cal 4 mdq	4	✓	50.0	52.8	105.6
cal 5 mdq	5	✓	100.0	100.5	100.5
cal 6 mdq	6	✓	250.0	254.4	101.8
cal 7 mdq	7	✓	500.0	490.7	98.1
cal 8 mdq	8	✓	1000.0	950.3	95.0

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\lam 27-28\010924\QuantResults\lam28.batch.bin  
**Last Cal. Update** 1/10/2024 12:38 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

Zolpidem - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

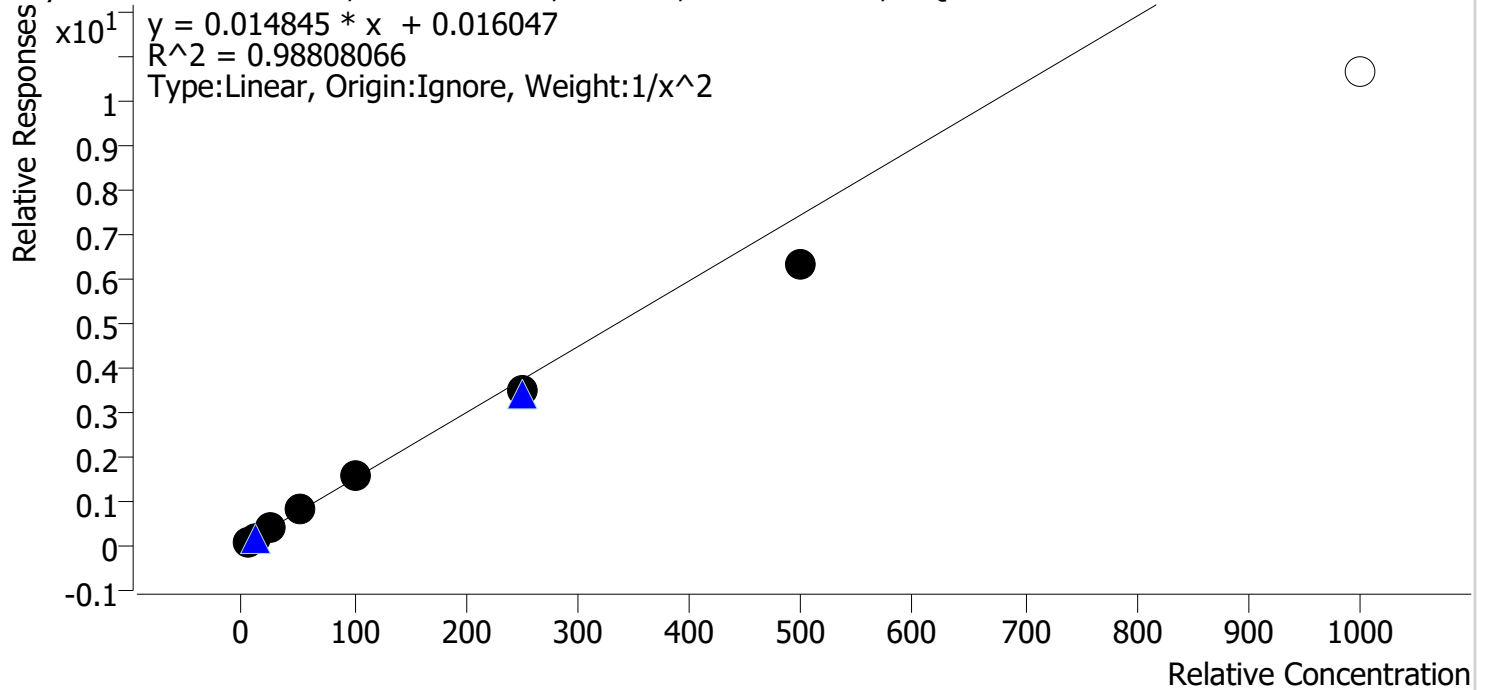


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.5
cal 2 mdq	2	✓	10.0	10.1	100.5
cal 3 mdq	3	✓	25.0	26.0	104.1
cal 4 mdq	4	✓	50.0	51.9	103.7
cal 5 mdq	5	✓	100.0	102.2	102.2
cal 6 mdq	6	✓	250.0	251.7	100.7
cal 7 mdq	7	✓	500.0	493.6	98.7
cal 8 mdq	8	✓	1000.0	915.6	91.6

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin		
<b>Last Cal. Update</b>	1/10/2024 12:38 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

Dihydrocodeine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.2
cal 2 mdq	2	✓	10.0	10.0	99.8
cal 3 mdq	3	✓	25.0	27.3	109.3
cal 4 mdq	4	✓	50.0	55.3	110.6
cal 5 mdq	5	✓	100.0	105.5	105.5
cal 6 mdq	6	✓	250.0	231.5	92.6
cal 7 mdq	7	✓	500.0	425.0	85.0
cal 8 mdq	8	✗	1000.0	714.4	71.4



# AM #28 Multi-Drug Quant. Results

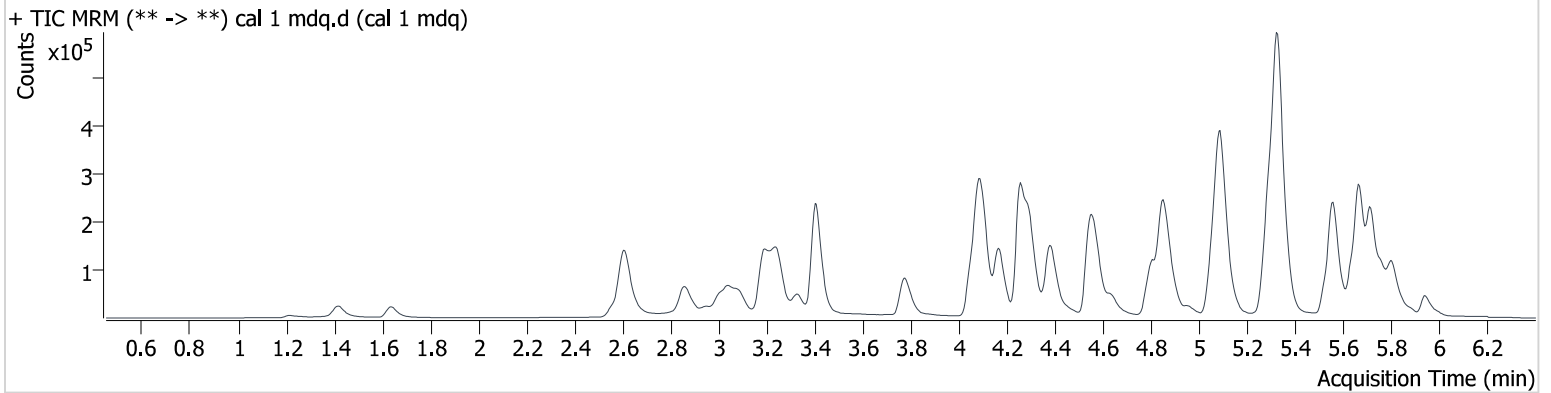
**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-A1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 2:41:05 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.
Alprazolam	5.771	16954	4574.3	91.65	458.3	133481	5.067 ng/ml
Amphetamine	3.082	23134	325.4	292.65	1027.1	132685	4.807 ng/ml
Bupropion	4.810	52023	3919.0	71.69	2726.1	313319	4.911 ng/ml
Citalopram	5.273	39024	3322.9	36.63	32344.9	334871	4.921 ng/ml
Dihydrocodeine	2.594	6240	84.8	64.57	2911.7	70759	4.859 ng/ml
Diphenhydramine	5.327	133678	156275.4	33.86	2305.4	1213218	5.061 ng/ml
Doxylamine	4.566	110183	15634.4	92.28	8549.8	653400	4.884 ng/ml
EDDP	5.300	41208	43473.4	43.14	68868.8	402984	4.986 ng/ml
Hydrocodone	3.069	14348	∞	38.21	11920.7	152098	4.890 ng/ml
Hydromorphone	1.647	8539	∞	75.32	∞	60342	4.977 ng/ml
Lorazepam	5.739	961	536.9	39.42	9.6 <b>Low</b>	101987	5.847 ng/ml
Methamphetamine	3.256	110038	∞	40.19	∞	366099	4.784 ng/ml
Morphine	1.221	1620	166.7	17.65	46.2	5196	4.876 ng/ml
Nordiazepam	5.887	2403	378.6	58.20	97.7	16454	5.030 ng/ml
Norhydrocodone	3.121	1891	276.2	20.16	53.9	36028	5.099 ng/ml
Noroxycodone	2.971	7487	∞	53.99	3965.6	52380	4.919 ng/ml
Oxycodone	2.889	23649	1765.2	32.83	1443.4	208929	4.929 ng/ml
Promethazine	5.563	40102	∞	47.85	3647.0	484073	5.063 ng/ml
Quetiapine	5.539	59468	9245.0	66.70	9840.6	194800	4.828 ng/ml
Sertraline	5.787	10854	∞	88.66	∞	76827	5.029 ng/ml
Zolpidem	4.870	85602	8315.8	28.30	186930.9	678067	4.923 ng/ml

# AM #28 Multi-Drug Quant. Results

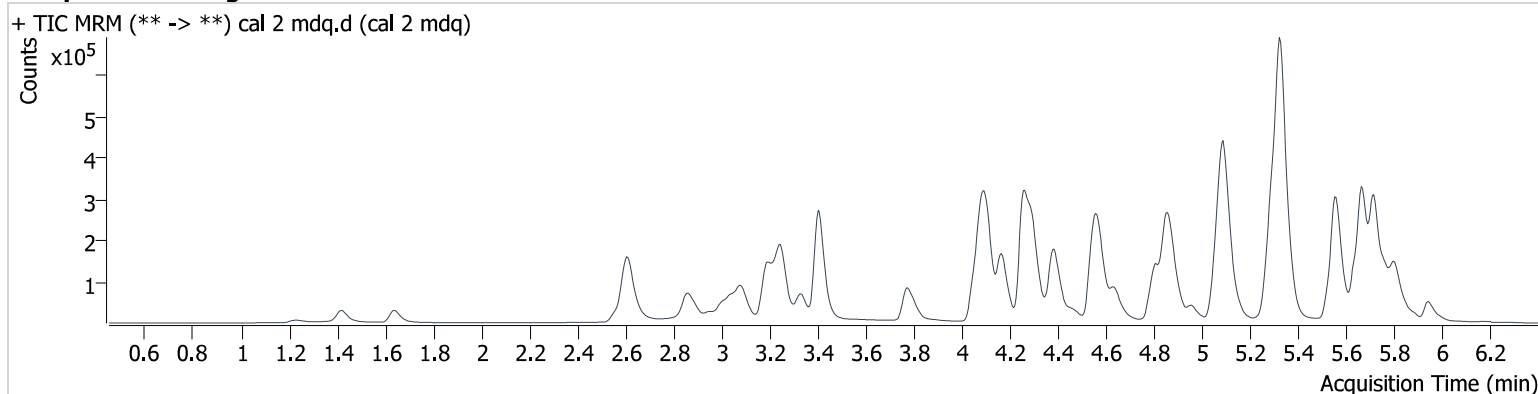
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-B1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 2:49:58 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.
Alprazolam	5.766	33766	1485.8	97.00	1410.5	134536	9.755 ng/ml
Amphetamine	3.082	45393	6406.5	280.82	1852.0	128833	10.642 ng/ml
Bupropion	4.810	103501	8450.2	74.30	∞	310967	10.254 ng/ml
Citalopram	5.273	81183	2509.2	36.49	∞	331624	10.254 ng/ml
Dihydrocodeine	2.589	11936	2648.6	68.03	4417.4	72657	9.985 ng/ml
Diphenhydramine	5.328	273877	20693.4	33.85	12647.0	1245120	9.858 ng/ml
Doxylamine	4.566	224883	∞	93.34	38994.7	659491	10.148 ng/ml
EDDP	5.295	89150	∞	43.12	696516.2	423129	10.105 ng/ml
Hydrocodone	3.069	27991	1989.0	39.45	597.5	150626	10.098 ng/ml
Hydromorphone	1.647	19900	278233.3	73.42	1238.3	66272	10.003 ng/ml
Lorazepam	5.739	2052	∞	29.59 <b>Low</b>	13.7	99703	11.696 ng/ml
Methamphetamine	3.250	172759	1581.2	37.44	∞	359296	10.405 ng/ml
Morphine	1.241	3630	256.4	19.05	151.7	5449	10.273 ng/ml
Nordiazepam	5.892	4951	1098.5	61.44	800.8	16454	10.102 ng/ml
Norhydrocodone	3.121	3993	722.1	19.38	117.9	37350	9.666 ng/ml
Noroxycodone	2.966	15602	∞	55.86	∞	53828	10.128 ng/ml
Oxycodone	2.884	47918	2066.0	30.70	777.1	215503	9.977 ng/ml
Promethazine	5.563	86205	∞	46.03	31556.6	518201	9.814 ng/ml
Quetiapine	5.539	118186	22328.7	68.20	32653.9	200426	9.977 ng/ml
Sertraline	5.787	22591	∞	93.54	∞	89996	9.720 ng/ml
Zolpidem	4.870	169339	48861.7	28.88	∞	676330	10.054 ng/ml

# AM #28 Multi-Drug Quant. Results

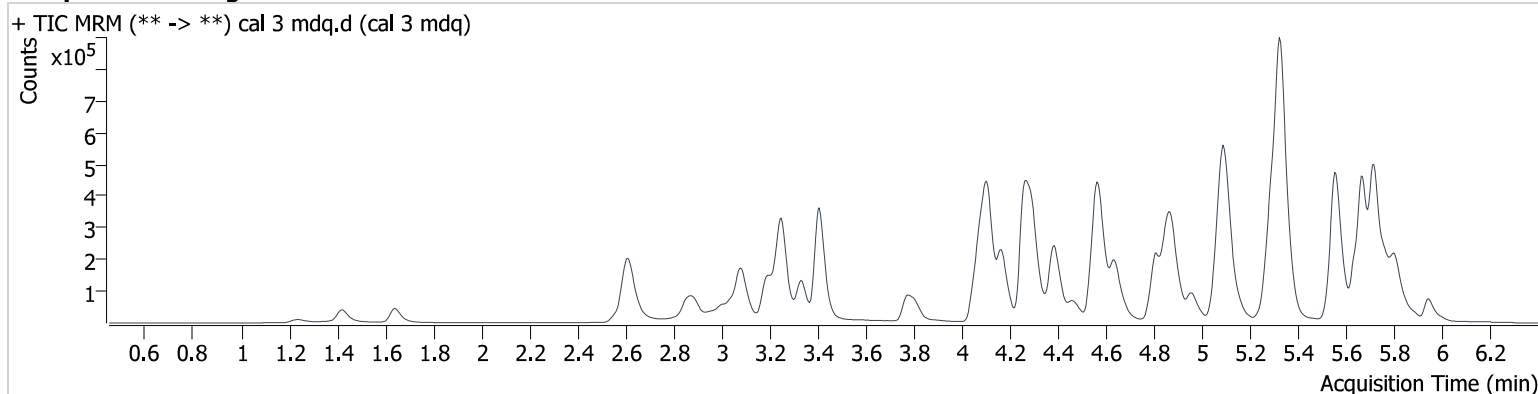
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-C1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 2:58:40 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.
Alprazolam	5.766	85407	4762.5	94.76	∞	131661	24.794 ng/ml
Amphetamine	3.082	104853	3240.0	269.52	40244.7	126777	26.204 ng/ml
Bupropion	4.810	248109	21647.6	77.17	23271.9	309100	25.307 ng/ml
Citalopram	5.273	201415	5675.0	36.30	∞	330574	25.407 ng/ml
Dihydrocodeine	2.594	30395	277.6	66.06	2097.1	72075	27.326 ng/ml
Diphenhydramine	5.328	677318	91119.4	34.15	41840.5	1208201	24.743 ng/ml
Doxylamine	4.566	573596	59265.3	94.04	67405.1	662413	26.177 ng/ml
EDDP	5.295	211062	∞	44.05	516070.4	404842	24.770 ng/ml
Hydrocodone	3.069	70871	4101.0	38.25	661.5	150333	26.352 ng/ml
Hydromorphone	1.647	48548	∞	64.35	∞	62972	24.905 ng/ml
Lorazepam	5.744	4848	9355.3	38.61	502.9	102684	25.649 ng/ml
Methamphetamine	3.250	362402	1187.9	37.28	∞	355385	27.209 ng/ml
Morphine	1.246	9207	1422.6	18.34	274.5	5421	25.997 ng/ml
Nordiazepam	5.892	11995	1814.4	62.58	1817.7	16815	23.613 ng/ml
Norhydrocodone	3.121	11233	1143.0	21.61	297.0	38665	25.079 ng/ml
Noroxycodone	2.971	38736	28803.6	55.39	∞	53199	25.667 ng/ml
Oxycodone	2.884	122896	∞	30.24	2231.4	214793	26.156 ng/ml
Promethazine	5.558	239733	∞	43.00	19053.2	551355	25.086 ng/ml
Quetiapine	5.539	305231	18137.3	67.52	52592.3	194246	27.753 ng/ml
Sertraline	5.787	60354	∞	89.89	∞	98069	25.299 ng/ml
Zolpidem	4.875	428580	317146.2	28.85	245545.9	672927	26.029 ng/ml

# AM #28 Multi-Drug Quant. Results

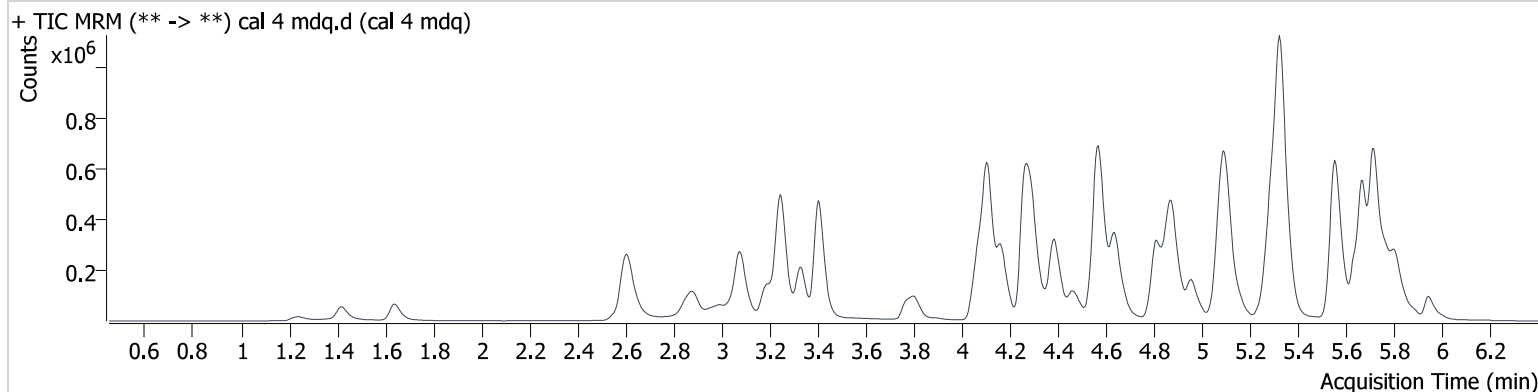
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-D1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 3:07:22 PM  
**Sample Info.**

**Data File** cal 4 mdq.d  
**Sample** cal 4 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	147779	1232.7	94.96	47624.0	111768	50.263 ng/ml
Amphetamine	3.082	177005	13620.1	267.37	26994.6	112923	50.476 ng/ml
Bupropion	4.810	451237	46007.6	75.23	45035.8	281084	51.023 ng/ml
Citalopram	5.273	341844	25593.7	36.08	644425.4	285190	49.909 ng/ml
Dihydrocodeine	2.589	56493	1195.7	65.86	180.1	67497	55.298 ng/ml
Diphenhydramine	5.327	1161674	141874.5	35.02	329130.6	1050309	48.577 ng/ml
Doxylamine	4.566	1062735	489563.3	92.68	∞	611118	52.839 ng/ml
EDDP	5.295	391966	176297.5	43.51	∞	370256	50.136 ng/ml
Hydrocodone	3.064	130181	6048.8	39.43	∞	140691	52.185 ng/ml
Hydromorphone	1.642	94254	∞	72.77	∞	56666	53.159 ng/ml
Lorazepam	5.744	7992	3431.8	38.91	69.1	88464	48.244 ng/ml
Methamphetamine	3.250	620322	19335.2	36.77	∞	327054	54.553 ng/ml
Morphine	1.241	17909	1775.7	19.16	201.8	5318	51.428 ng/ml
Nordiazepam	5.887	21657	1372.5	60.65	3081.3	14552	48.997 ng/ml
Norhydrocodone	3.115	20864	3801.7	23.95	135.1	36509	48.661 ng/ml
Noroxycodone	2.966	71408	∞	52.54	∞	49333	51.170 ng/ml
Oxycodone	2.879	228911	∞	29.79	∞	199303	52.815 ng/ml
Promethazine	5.558	395679	434886.1	44.97	62675.9	466691	48.584 ng/ml
Quetiapine	5.539	536898	9490.1	68.21	71793.4	172580	55.631 ng/ml
Sertraline	5.787	98100	∞	86.02	∞	77925	52.807 ng/ml
Zolpidem	4.875	784624	68784.6	28.94	271342.5	621712	51.868 ng/ml

# AM #28 Multi-Drug Quant. Results

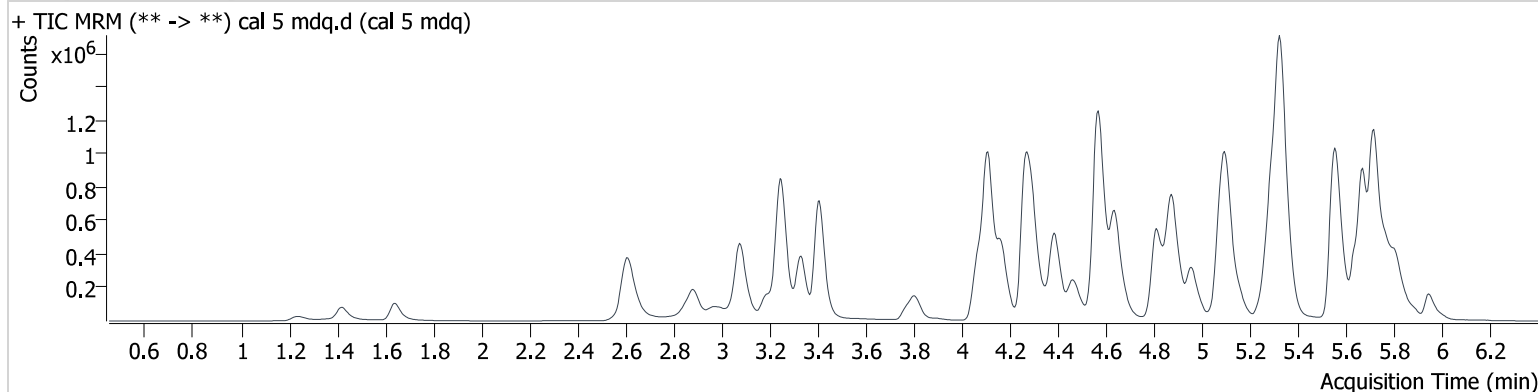
Batch results D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
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Instrument 69679  
Type Cal  
Acq. Method mdqp1 121523.m  
Sample Position P2-E1  
Injection Volume 3  
Acq. Date-Time 1/9/2024 3:16:04 PM  
Sample Info.

Data File cal 5 mdq.d  
Sample cal 5 mdq  
Operator Anne Nord  
Comment

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	284134	43340.6	91.50	2096.5	106718	100.946 ng/ml
Amphetamine	3.082	316186	6728.4	260.35	10415.3	111965	91.664 ng/ml
Bupropion	4.810	890866	140424.1	76.46	∞	280505	101.341 ng/ml
Citalopram	5.273	659001	∞	37.26	175141.1	271514	100.981 ng/ml
Dihydrocodeine	2.589	103778	349.8	66.01	10090.3	65591	105.497 ng/ml
Diphenhydramine	5.327	2292061	343025.6	33.20	69381.4	1015885	98.838 ng/ml
Doxylamine	4.566	2107881	∞	94.08	176113.0	623835	102.916 ng/ml
EDDP	5.295	779066	∞	42.89	∞	374840	98.279 ng/ml
Hydrocodone	3.064	245056	∞	39.79	∞	132015	105.172 ng/ml
Hydromorphone	1.642	175746	∞	69.28	∞	57080	97.979 ng/ml
Lorazepam	5.744	16704	∞	36.95	111.2	90780	97.318 ng/ml
Methamphetamine	3.250	1114857	6896.5	37.88	6812.4	336121	98.834 ng/ml
Morphine	1.241	32850	13171.2	18.97	1102.0	4896	102.332 ng/ml
Nordiazepam	5.892	44619	11720.3	60.74	4895.2	14123	103.739 ng/ml
Norhydrocodone	3.115	41475	3169.5	23.54	1544.8	36307	96.575 ng/ml
Noroxycodone	2.966	134635	∞	54.26	∞	45440	104.899 ng/ml
Oxycodone	2.879	428885	∞	29.82	∞	193110	102.414 ng/ml
Promethazine	5.558	790584	333096.4	44.92	140730.4	466435	96.777 ng/ml
Quetiapine	5.539	1045621	3374484.8	66.29	195458.5	172109	109.306 ng/ml
Sertraline	5.787	166004	∞	93.15	∞	69934	100.465 ng/ml
Zolpidem	4.875	1499761	549216.1	29.19	638432.1	604829	102.195 ng/ml

# AM #28 Multi-Drug Quant. Results

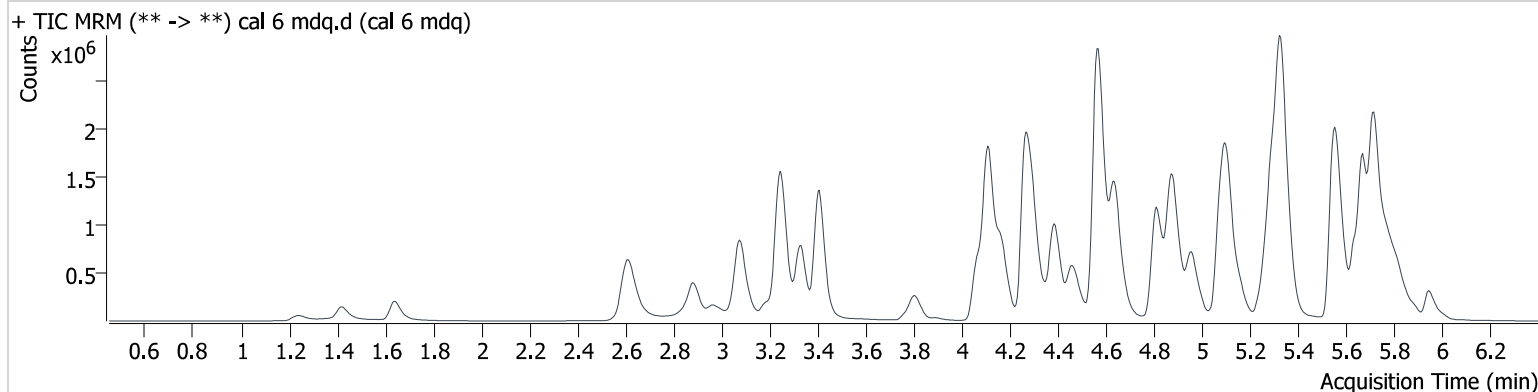
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**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-F1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 3:24:47 PM  
**Sample Info.**

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

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	589643	∞	95.38	16015.9	93438	238.897 ng/ml
Amphetamine	3.082	589821	22147.3	256.17	110646.5	104747	183.679 ng/ml
Bupropion	4.810	2167339	267031.8	74.00	179173.0	271917	254.950 ng/ml
Citalopram	5.267	1339508	48466.3	38.30	∞	224292	248.361 ng/ml
Dihydrocodeine	2.584	222252	1179.6	65.83	530.7	64380	231.461 ng/ml
Diphenhydramine	5.328	4954973	936970.9	31.89	183698.9	869723	249.200 ng/ml
Doxylamine	4.568	5099607	150183.1	94.85	979477.0	620486	250.710 ng/ml
EDDP	5.295	1900203	113040.5	43.05	∞	360393	249.076 ng/ml
Hydrocodone	3.064	572268	∞	39.14	∞	128934	252.138 ng/ml
Hydromorphone	1.642	402229	∞	72.33	∞	50988	250.260 ng/ml
Lorazepam	5.744	37495	12260.0	39.22	252.8	82868	237.970 ng/ml
Methamphetamine	3.250	2363217	29388.7	37.91	∞	345443	208.724 ng/ml
Morphine	1.241	74974	22954.6	18.96	1258.4	4676	244.373 ng/ml
Nordiazepam	5.892	105429	89028.9	62.11	4946.1	13636	253.517 ng/ml
Norhydrocodone	3.115	98141	7319.8	25.59	3063.8	32460	254.461 ng/ml
Noroxycodone	2.961	299722	∞	52.90	∞	41538	255.670 ng/ml
Oxycodone	2.879	1030192	∞	29.90	∞	189559	251.052 ng/ml
Promethazine	5.558	2000450	3185185.8	42.27	84376.1	451236	252.562 ng/ml
Quetiapine	5.534	2275228	26016.6	64.78	223562.6	158219	259.683 ng/ml
Sertraline	5.787	347265	∞	93.08	∞	58121	254.412 ng/ml
Zolpidem	4.875	3558681	334399.1	29.33	295452.8	583738	251.682 ng/ml

# AM #28 Multi-Drug Quant. Results

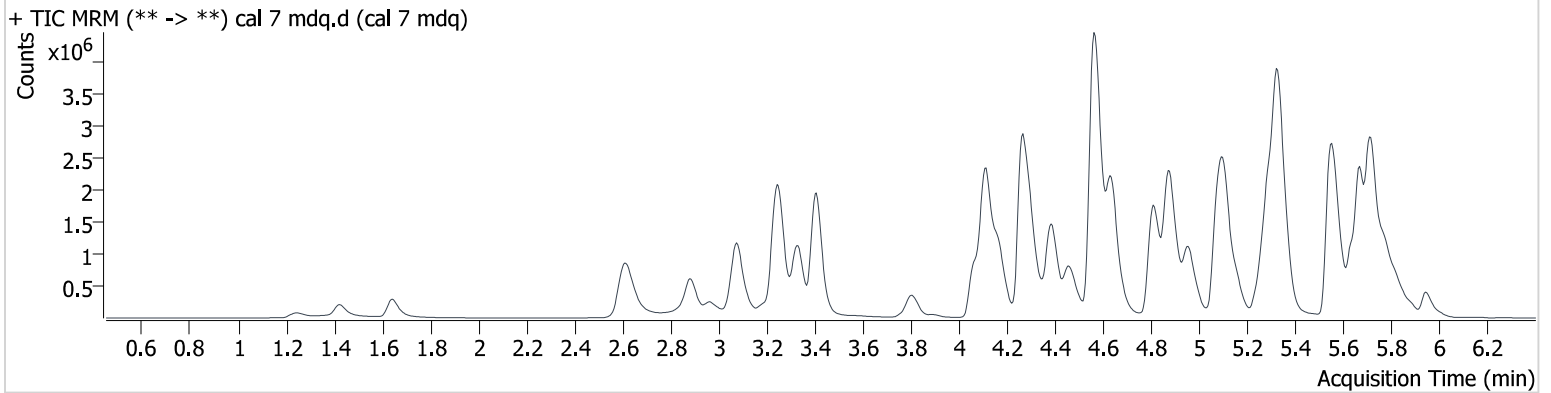
Batch results D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
Calibration Last Update 1/10/2024 12:38:07 PM

Instrument 69679  
Type Cal  
Acq. Method mdqp1 121523.m  
Sample Position P2-G1  
Injection Volume 3  
Acq. Date-Time 1/9/2024 3:33:29 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.
Alprazolam	5.771	813463	∞	92.86	∞	59845	514.283 ng/ml
Amphetamine	3.082	832777	183239.2	254.82	18066.9	88203	308.596 ng/ml
Bupropion	4.810	3445871	370566.1	72.40	325316.4	222080	496.698 ng/ml
Citalopram	5.267	1851939	101158.7	38.37	1747002.9	159102	483.993 ng/ml
Dihydrocodeine	2.584	345879	27126.7	64.89	13075.3	54686	424.964 ng/ml
Diphenhydramine	5.333	7274412	4660433.1	31.75	177117.4	621149	511.999 ng/ml
Doxylamine	4.561	8338534	654756.7	95.02	871841.9	530109	480.077 ng/ml
EDDP	5.295	2690131	∞	43.51	169972.3	250961	506.215 ng/ml
Hydrocodone	3.064	909502	∞	39.80	∞	106001	487.863 ng/ml
Hydromorphone	1.642	615240	∞	72.42	∞	38733	503.404 ng/ml
Lorazepam	5.744	55795	4801.8	38.37	1802.5	56253	520.571 ng/ml
Methamphetamine	3.250	3400563	∞	38.89	2510320.7	300284	348.520 ng/ml
Morphine	1.246	111151	19968.6	18.60	7148.4	3435	493.055 ng/ml
Nordiazepam	5.892	148014	66641.7	63.70	130052.0	9975	486.326 ng/ml
Norhydrocodone	3.115	146707	11905.3	26.19	2231.7	24597	501.311 ng/ml
Noroxycodone	2.961	466919	∞	52.10	∞	35030	472.423 ng/ml
Oxycodone	2.879	1680230	∞	29.41	∞	161652	480.433 ng/ml
Promethazine	5.563	2896896	123945.1	42.07	52594.1	323887	509.190 ng/ml
Quetiapine	5.534	3420148	60079.1	61.31	246882.3	122484	504.905 ng/ml
Sertraline	5.787	424225	∞	94.73	∞	36879	490.746 ng/ml
Zolpidem	4.875	5718257	416941.4	29.36	351879.6	478560	493.580 ng/ml

# AM #28 Multi-Drug Quant. Results

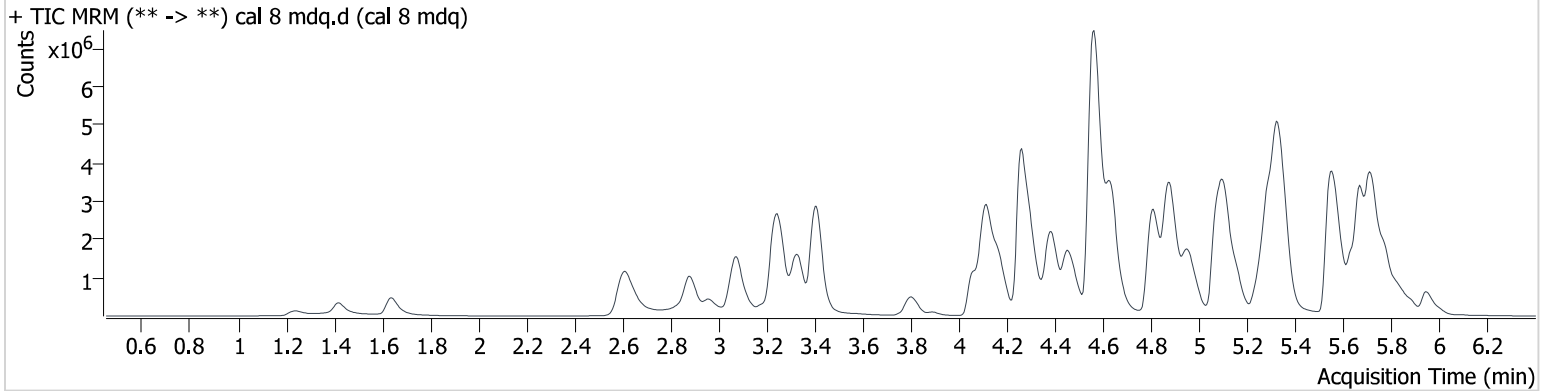
**Batch results** D:\MassHunter\Data\2024\am 27-28\010924\QuantResults\am28.batch.bin  
**Calibration Last Update** 1/10/2024 12:38:07 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 121523.m  
**Sample Position** P2-H1  
**Injection Volume** 3  
**Acq. Date-Time** 1/9/2024 3:50:55 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.
Alprazolam	5.771	1220047	7208.0	92.39	22812.5	45222	1020.474 ng/ml
Amphetamine	3.082	1093616	∞	255.80	353557.2	79921	447.660 ng/ml
Bupropion	4.810	5779165	493714.4	70.39	730617.0	198335	933.114 ng/ml
Citalopram	5.262	2452266	645486.0	38.97	∞	101474	1004.764 ng/ml
Dihydrocodeine	2.578	551499	1008.0	64.41	6341.9	51919	714.446 ng/ml
Diphenhydramine	5.333	10356616	2357107.5	31.27	88026.9	438851	1031.484 ng/ml
Doxylamine	4.561	14935345	464526.9	94.79	∞	499738	912.373 ng/ml
EDDP	5.290	5301345	∞	43.23	160158.3	248485	1007.366 ng/ml
Hydrocodone	3.059	1552452	∞	40.13	∞	100534	878.410 ng/ml
Hydromorphone	1.637	1099134	∞	73.62	∞	36373	957.227 ng/ml
Lorazepam	5.744	97704	39163.4	40.19	1513.2	49123	1042.972 ng/ml
Methamphetamine	3.245	5015477	964830.1	38.48	447755.4	309123	501.317 ng/ml
Morphine	1.241	195014	103547.4	18.94	12242.6	3154	942.115 ng/ml
Nordiazepam	5.892	275948	28551.0	60.42	8848.6	8734	1035.258 ng/ml
Norhydrocodone	3.115	246728	36054.7	27.30	10114.5	19717	1050.968 ng/ml
Noroxycodone	2.961	813510	∞	52.00	∞	30786	936.712 ng/ml
Oxycodone	2.879	3092765	28993.5	28.97	3633336.3	154631	924.756 ng/ml
Promethazine	5.563	4781421	263631.2	40.79	5547228.2	263007	1034.613 ng/ml
Quetiapine	5.534	4940233	707192.3	63.43	1222638.3	108902	820.708 ng/ml
Sertraline	5.787	501739	∞	95.56	∞	22548	950.253 ng/ml
Zolpidem	4.875	9542614	803375.3	29.27	∞	430647	915.580 ng/ml