



10/29/2024

Worklist: 6961**REVIEWED**

By Brittany Wylie at 1:52 pm, Oct 30, 2024

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-1882	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2003	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
C2024-2021	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2029	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
C2024-2069	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2078	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2099	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2105	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-2106	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 10/29/24

Plate lot#: 240528

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

Blank Blood Lot: 24C52043

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

Analyst: Anne Nord

Plate Retest Date: 11/28/2024

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Urine Lot: 6524

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. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: 390993** Urine Hydrolysis: add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes
- ☒ 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 5. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: 250
- ☒ 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).**
- ☒ 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. Place on SPE Dry 75401 and evaporate to dryness at approx. 35°C. ☒ If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).
- ☒ 15. Reconstitute in **100µL 20% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

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

COMMENTS:

Compounds evaluated

limitations

Amphetamine	5-250 calibrators 7 and 8 dropped due to accuracy
Benzoylecgonine	
Buprenorphine	
Citalopram	
Cocaine	
Fentanyl	
Methamphetamine	5-500 calibrator 8 dropped due to accuracy
Morphine	
Norbuprenorphine	



Norfentanyl	0.5-50 calibrator 8 dropped due to accuracy
Noroxycodone	
O-desmethylenlafaxine	
Oxymorphone	
Venlafaxine	



	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	2069-2									
B	IS + Cal. 2	IS + QC_2	negative urine									
C	IS + Cal. 3	IS + QC 3	2078-1									
D	IS + Cal. 4	IS + QC_4	2003-1									
E	IS + Cal. 5	IS + QC_2	2099-1									
F	IS + Cal. 6	negative blood	2105-1									
G	IS + Cal. 7	1882-1	2106-1									
H	IS + Cal. 8	2021-1			2029-1							

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plate position 2

c2024-____-__

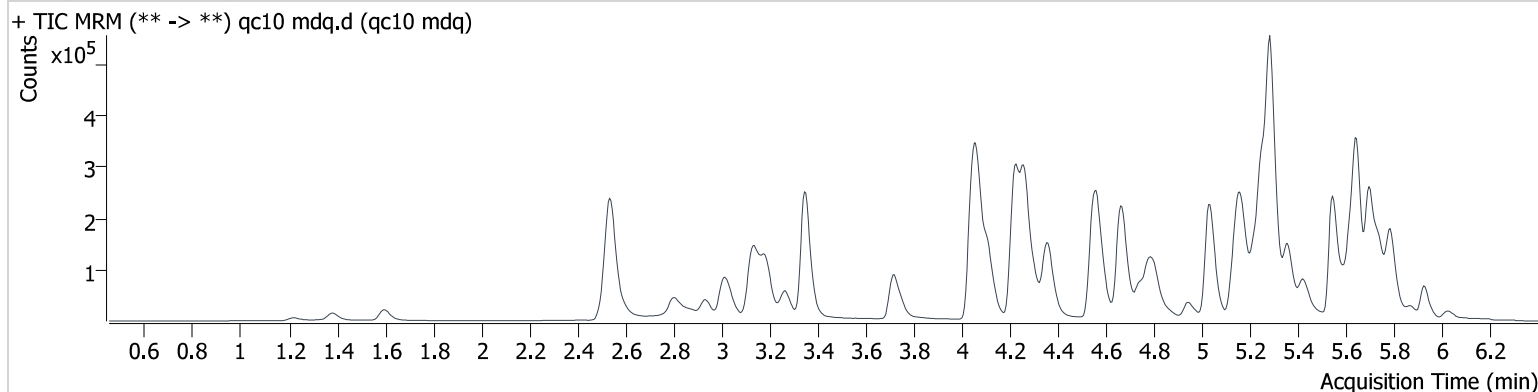
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-A2
Injection Volume 2
Acq. Date-Time 10/29/2024 1:54:31 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	3.016	37784	4859.7	270.17	3755.8	109359	10.350	ng/ml
Benzoyllecgonine	3.851	1156	454.7	44.66	99.2	3736	9.193	ng/ml
Buprenorphine	6.044	3909	361.9	13.19	46.0	38998	1.155	ng/ml
Citalopram	5.223	62648	3374.2	38.56	69683.2	286816	9.653	ng/ml
Cocaine	4.265	61487	5553.7	50.12	2351.9	509913	9.143	ng/ml
Fentanyl	5.151	6236	1526.9	132.25	2211.2	325393	0.918	ng/ml
Methamphetamine	3.190	128039	∞	35.58	∞	316307	11.229	ng/ml
Morphine	1.226	3122	224.3	15.86	272.6	3163	9.371	ng/ml
Norbuprenorphine	4.995	480	168.4	107.28	183.8	7491	1.075	ng/ml
Norfentanyl	4.069	3665	444.4	31.34	184.8	461422	0.950	ng/ml
Noroxycodone	2.895	12274	638.9	42.84	768.6	37874	9.638	ng/ml
O-Desmethylenlafaxine	4.062	34490	638.4	548.39	4732.8	134721	9.200	ng/ml
Oxymorphone	1.385	9954	1084.5	43.80	1035.1	36277	9.776	ng/ml
Venlafaxine	5.034	103775	12142.7	34.60	1608.9	522234	9.486	ng/ml

AM #28 Multi-Drug Quant. Results

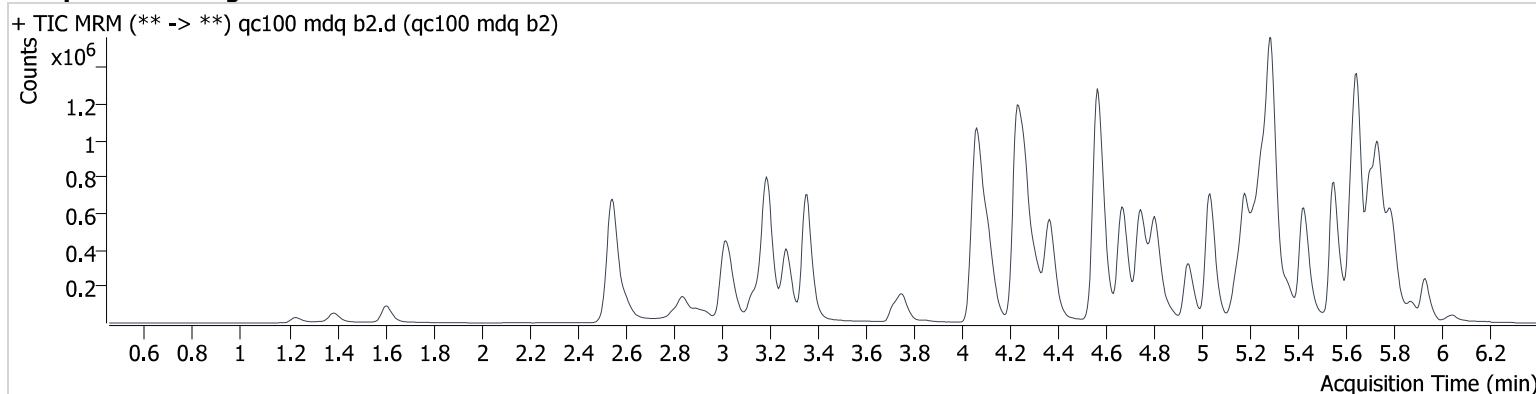
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Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-B2
Injection Volume 2
Acq. Date-Time 10/29/2024 4:39:44 PM
Sample Info.

Data File qc100 mdq b2.d
Sample qc100 mdq b2
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	3.016	341630	30550.5	263.34	52438.5	108722	100.292	ng/ml
Benzoylcegonine	3.846	12481	2158.9	42.63	721.8	3901	101.758	ng/ml
Buprenorphine	6.044	40953	5533.6	16.40	782.4	39088	11.347	ng/ml
Citalopram	5.223	643036	86799.3	40.92	543280.8	284915	99.695	ng/ml
Cocaine	4.265	650045	53145.8	47.80	3034341.4	509165	97.563	ng/ml
Fentanyl	5.151	69136	8746.5	130.25	7561.6	345714	9.714	ng/ml
Methamphetamine	3.195	1101710	475483.0	35.95	16124.1	342203	110.718	ng/ml
Morphine	1.231	28395	7825.2	19.42	600.7	2889	95.721	ng/ml
Norbuprenorphine	4.990	4319	2377.5	98.44	376.6	7429	10.487	ng/ml
Norfentanyl	4.069	33073	4026.5	30.31	1996.8	411559	10.956	ng/ml
Noroxycodone	2.900	121071	∞	44.78	∞	36337	104.378	ng/ml
O-Desmethylenlafaxine	4.062	334546	424.8	544.30	62575.7	126578	97.663	ng/ml
Oxymorphone	1.385	100274	∞	43.54	∞	34879	105.816	ng/ml
Venlafaxine	5.034	1131617	882324.5	35.20	33372.8	544005	97.727	ng/ml

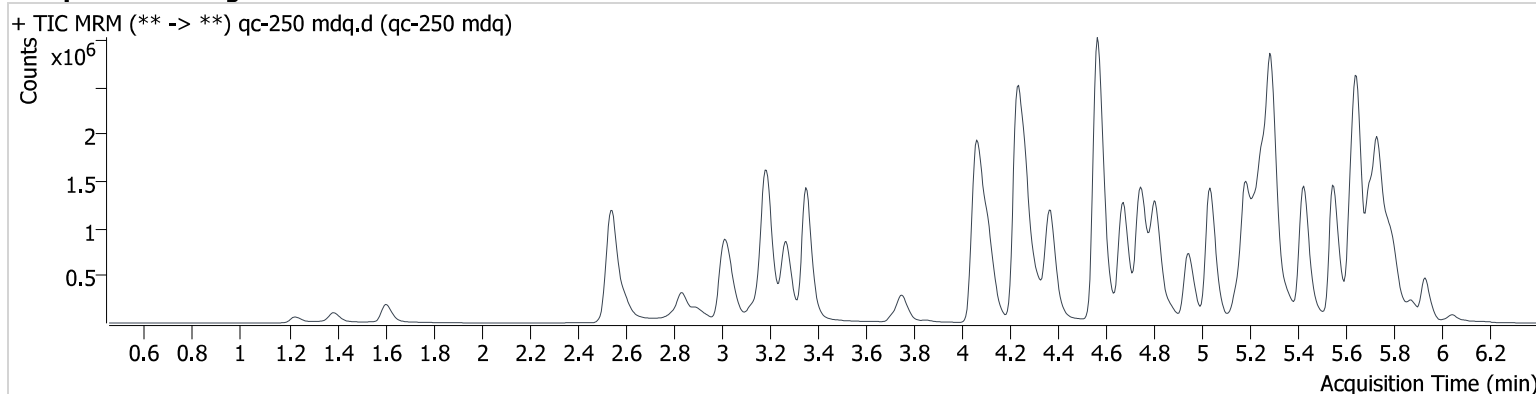
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-C2
Injection Volume 2
Acq. Date-Time 10/29/2024 2:03:13 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	3.011	719597	21314.1	266.45	375956.9	109757	210.087	ng/ml
Benzoylcegonine	3.851	30211	4472.3	43.27	2478.8	4208	229.269	ng/ml
Buprenorphine	6.044	109185	8505.6	15.39	1233.4	45945	25.639	ng/ml
Citalopram	5.223	1402311	234941.0	40.96	∞	246707	251.075	ng/ml
Cocaine	4.265	1522119	39438.3	46.00	∞	471870	246.627	ng/ml
Fentanyl	5.151	166435	9655.7	134.71	29746.4	349212	23.170	ng/ml
Methamphetamine	3.190	2359567	190990.2	38.37	∞	354379	232.270	ng/ml
Morphine	1.226	74903	10237.5	15.67	705.7	2783	262.612	ng/ml
Norbuprenorphine	4.990	10247	1354.8	98.15	2767.4	7066	26.291	ng/ml
Norfentanyl	4.069	60770	4238.0	31.80	3033.4	342258	24.387	ng/ml
Noroxycodone	2.895	277487	∞	45.16	∞	33655	259.132	ng/ml
O-Desmethylenlafaxine	4.062	711135	1249.3	541.60	68311.1	105871	248.648	ng/ml
Oxymorphone	1.385	235155	∞	43.70	∞	33383	259.789	ng/ml
Venlafaxine	5.034	2758206	507338.7	35.48	107194.0	521397	248.272	ng/ml

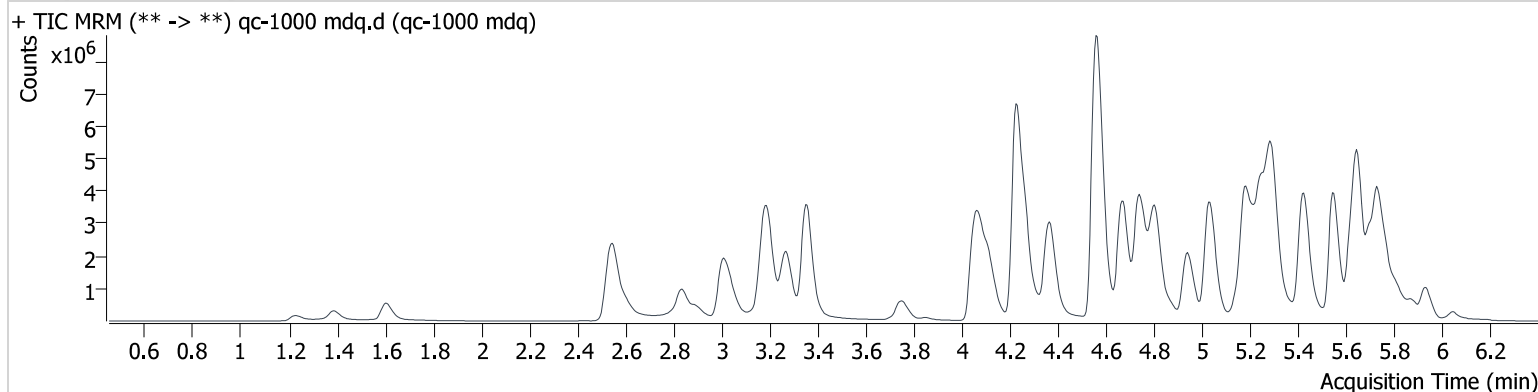
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-D2
Injection Volume 2
Acq. Date-Time 10/29/2024 2:11:55 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	3.006	1629916	1083807.3	254.30	244506.1	95996	545.282 ng/ml
Benzoylcegonine	3.851	122737	41965.7	45.23	8706.7	4002	981.728 ng/ml
Buprenorphine	6.044	411037	91788.7	15.54	18100.1	40257	109.905 ng/ml
Citalopram	5.218	2990042	3483898.9	43.40	31820957.7	138658	952.500 ng/ml
Cocaine	4.265	3806588	∞	46.33	237435.6	299927	970.598 ng/ml
Fentanyl	5.146	573239	89685.7	137.39	1115047.0	330454	84.368 ng/ml
Methamphetamine	3.190	6487350	2041681.4	34.05	139706.6	335878	679.627 ng/ml
Morphine	1.231	221162	17696.2	17.09	3690.7	2211	976.852 ng/ml
Norbuprenorphine	4.990	31311	3536.9	104.76	4080.4	5718	99.516 ng/ml
Norfentanyl	4.064	82751	8408.5	31.13	2961.3	183585	62.136 ng/ml
Noroxycodone	2.895	827679	∞	46.64	∞	25177	1034.906 ng/ml
O-Desmethylenlafaxine	4.057	1433728	6496.8	539.43	144866.5	57125	929.862 ng/ml
Oxymorphone	1.385	765404	∞	43.18	∞	27984	1009.730 ng/ml
Venlafaxine	5.033	8753891	717722.6	33.30	∞	404696	1014.662 ng/ml

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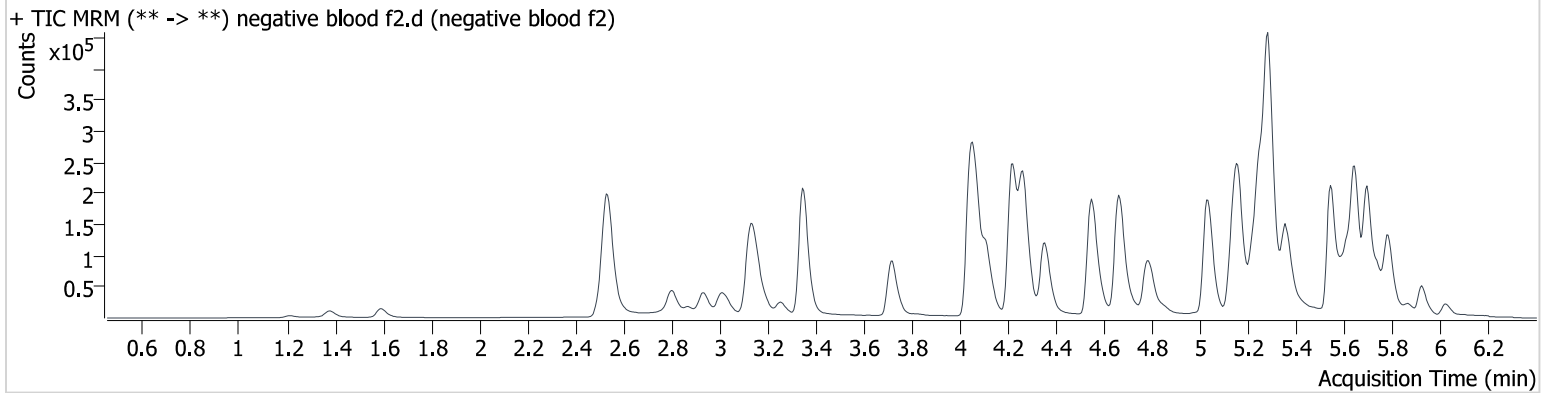
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-F2
Injection Volume 2
Acq. Date-Time 10/29/2024 2:29:21 PM
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



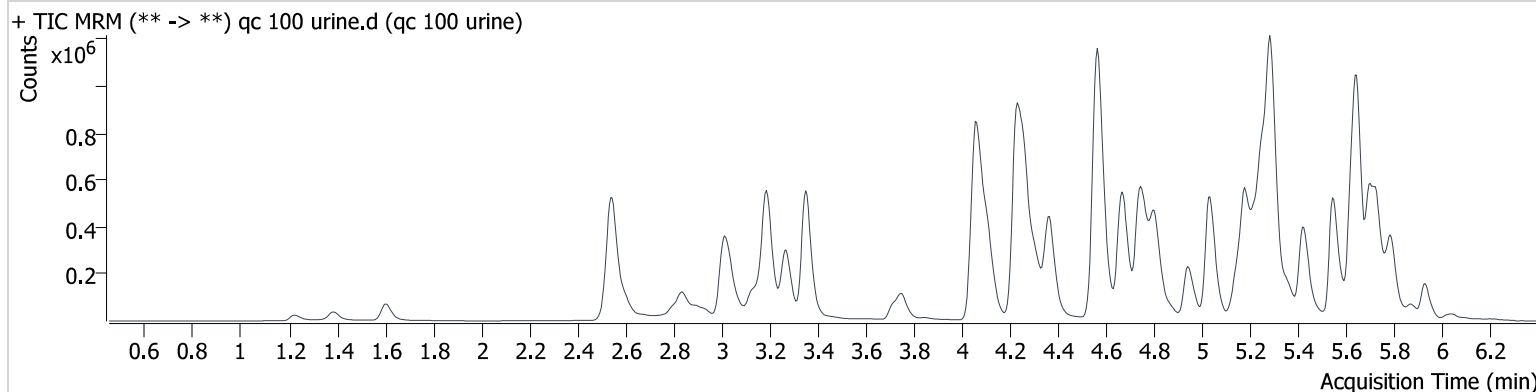
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-E2
Injection Volume 2
Acq. Date-Time 10/29/2024 2:20:39 PM
Sample Info.

Data File qc 100 urine.d
Sample qc 100 urine
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	3.016	268044	8142.3	268.48	44742.9	83591	102.363	ng/ml
Benzoylcegonine	3.846	9539	1784.6	44.41	237.2	3270	92.736	ng/ml
Buprenorphine	6.044	23242	1299.5	16.96	1608.2	27170	9.278	ng/ml
Citalopram	5.223	482818	28975.3	40.36	54286.3	209018	102.036	ng/ml
Cocaine	4.265	509524	36492.2	47.01	9890.3	395223	98.520	ng/ml
Fentanyl	5.151	52887	170262.2	133.49	11166.4	263566	9.747	ng/ml
Methamphetamine	3.190	741474	184478.2	36.64	40556.9	242659	104.926	ng/ml
Morphine	1.226	24446	8979.1	16.78	549.2	2521	94.426	ng/ml
Norbuprenorphine	4.990	3682	408.1	99.12	271.3	6479	10.248	ng/ml
Norfentanyl	4.069	23591	3966.8	30.23	1095.8	301076	10.679	ng/ml
Noroxycodone	2.895	95585	∞	43.25	15394.5	29547	101.329	ng/ml
O-Desmethylenlafaxine	4.057	265393	1093.0	547.58	12380.0	100802	97.285	ng/ml
Oxymorphone	1.385	69386	∞	43.37	∞	24011	106.361	ng/ml
Venlafaxine	5.034	848476	14194.3	34.81	8365.5	403579	98.769	ng/ml

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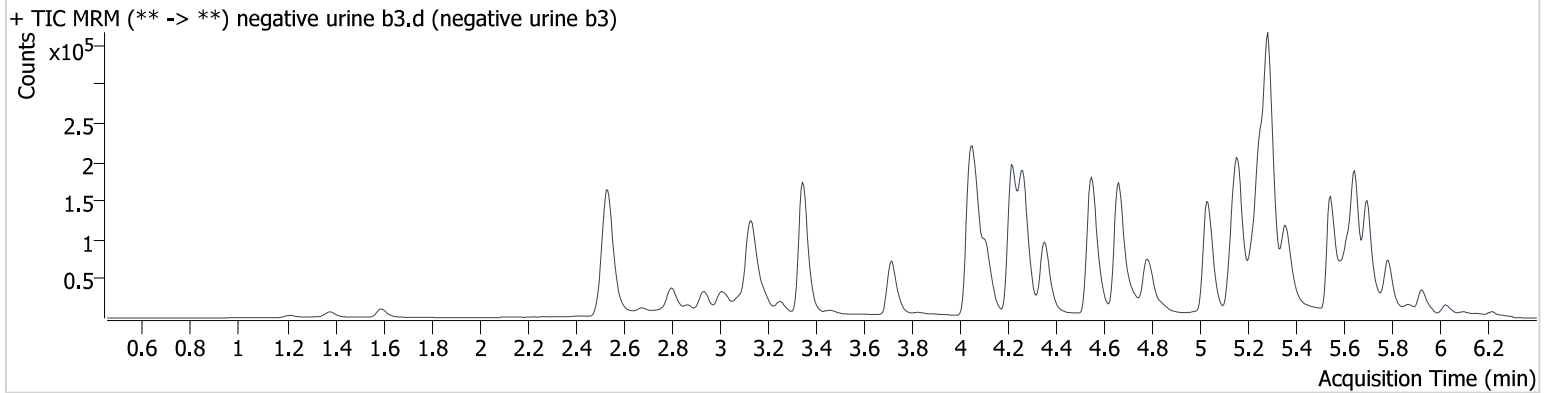
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-B3
Injection Volume 2
Acq. Date-Time 10/29/2024 3:04:03 PM
Sample Info.

Data File negative urine b3.d
Sample negative urine b3
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.

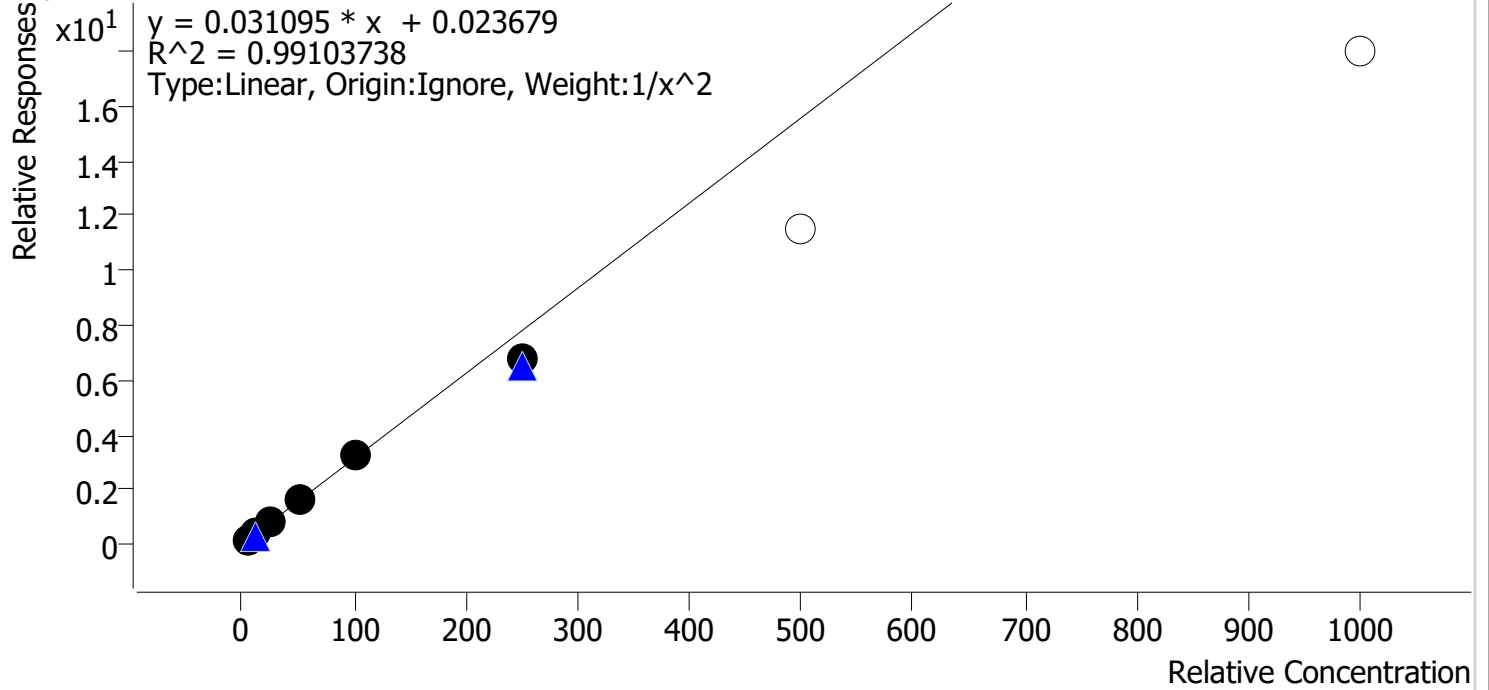
Sample Chromatogram



Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

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

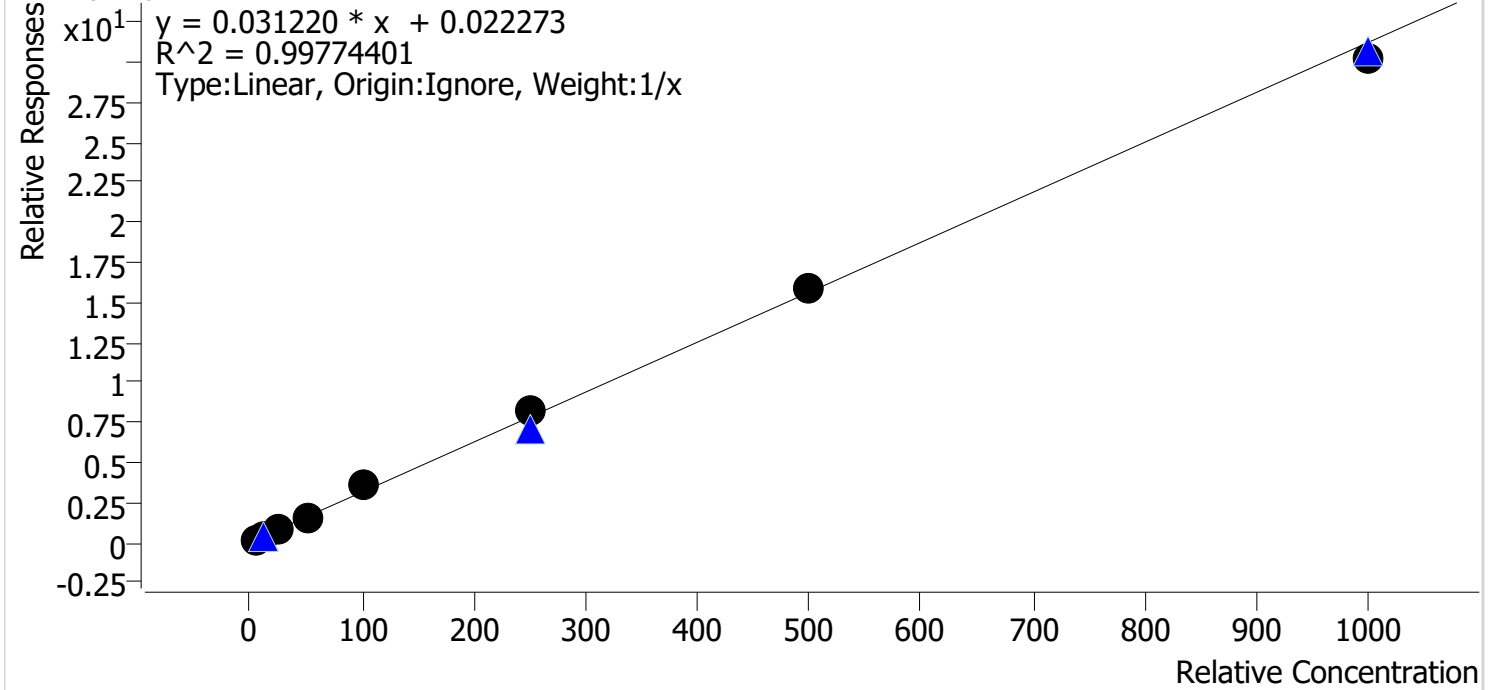


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	10.6	106.3
cal 3 mdq	3	✓	25.0	26.2	104.7
cal 4 mdq	4	✓	50.0	51.1	102.3
cal 5 mdq	5	✓	100.0	104.8	104.8
cal 6 mdq	6	✓	250.0	215.4	86.2
cal 7 mdq	7	✗	500.0	371.0	74.2
cal 8 mdq	8	✗	1000.0	577.6	57.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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

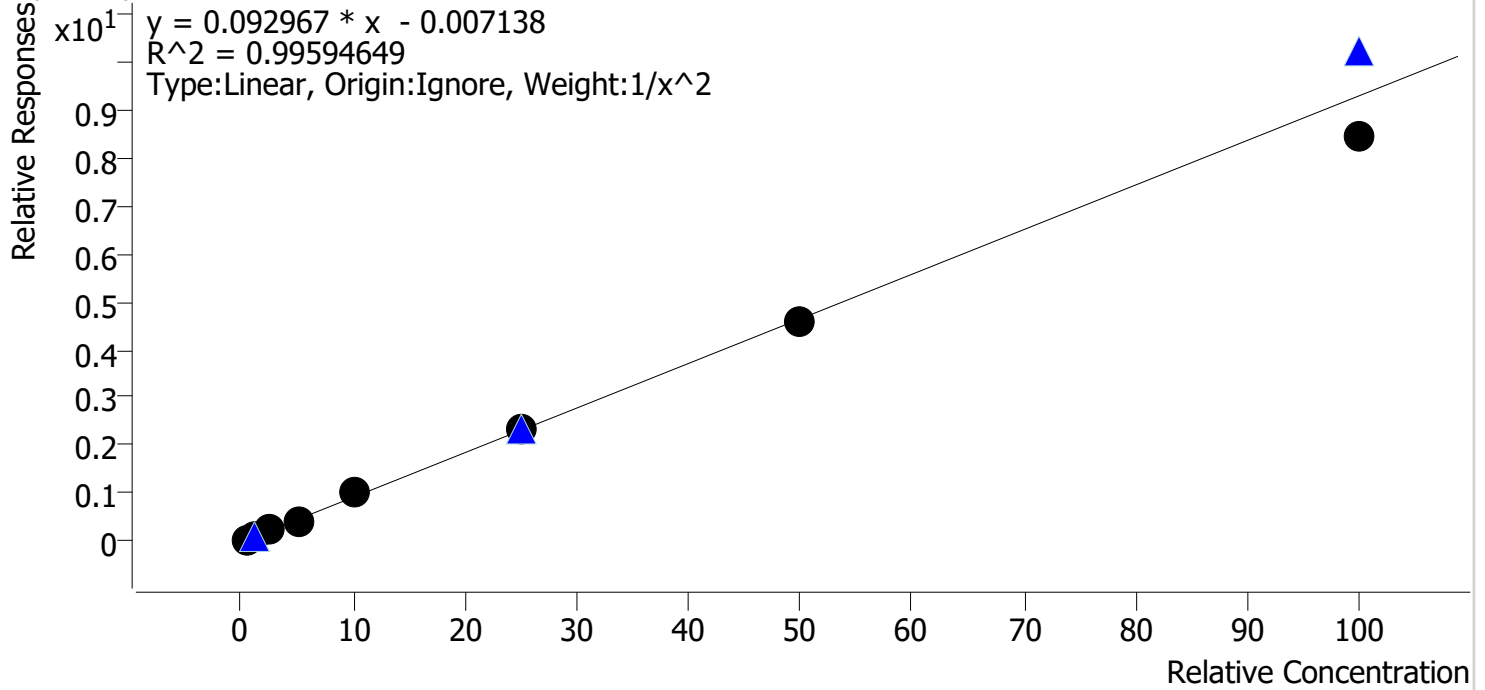


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.4	88.4
cal 2 mdq	2	✓	10.0	10.3	103.3
cal 3 mdq	3	✓	25.0	24.9	99.6
cal 4 mdq	4	✓	50.0	45.7	91.3
cal 5 mdq	5	✓	100.0	113.3	113.3
cal 6 mdq	6	✓	250.0	263.8	105.5
cal 7 mdq	7	✓	500.0	507.6	101.5
cal 8 mdq	8	✓	1000.0	970.0	97.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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

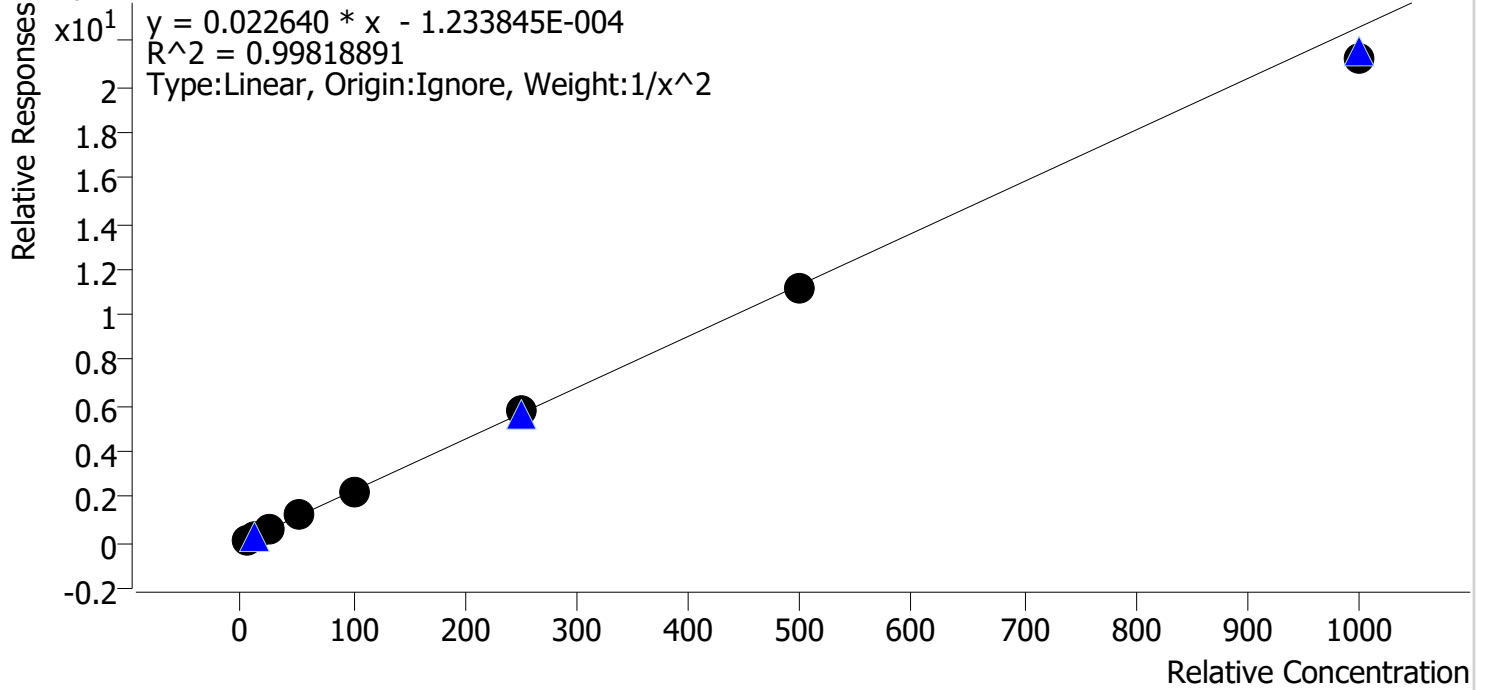


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	97.1
cal 2 mdq	2	✓	1.0	1.1	105.5
cal 3 mdq	3	✓	2.5	2.5	99.4
cal 4 mdq	4	✓	5.0	4.9	98.0
cal 5 mdq	5	✓	10.0	11.0	109.6
cal 6 mdq	6	✓	25.0	25.1	100.5
cal 7 mdq	7	✓	50.0	49.4	98.7
cal 8 mdq	8	✓	100.0	91.2	91.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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

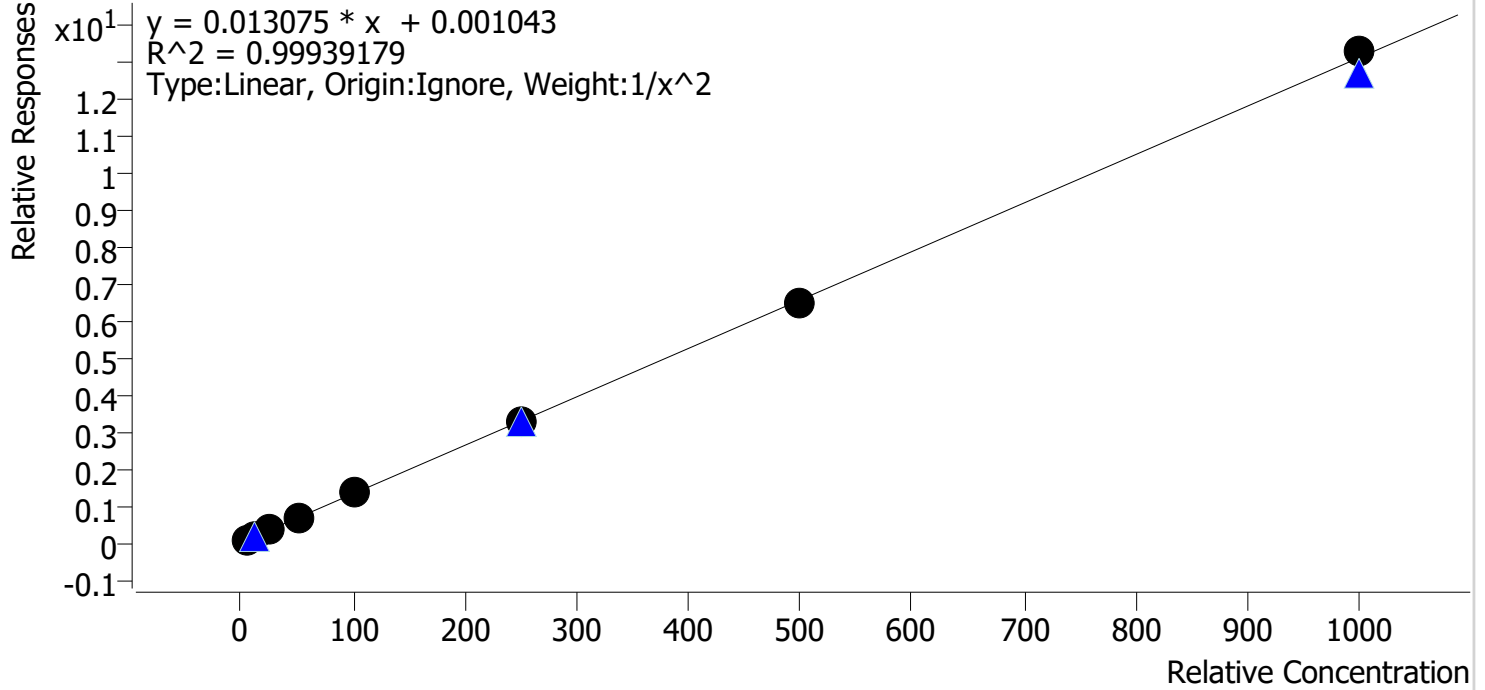


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.0
cal 2 mdq	2	✓	10.0	9.6	96.0
cal 3 mdq	3	✓	25.0	25.5	102.0
cal 4 mdq	4	✓	50.0	52.7	105.4
cal 5 mdq	5	✓	100.0	99.5	99.5
cal 6 mdq	6	✓	250.0	257.6	103.0
cal 7 mdq	7	✓	500.0	493.8	98.8
cal 8 mdq	8	✓	1000.0	941.6	94.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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

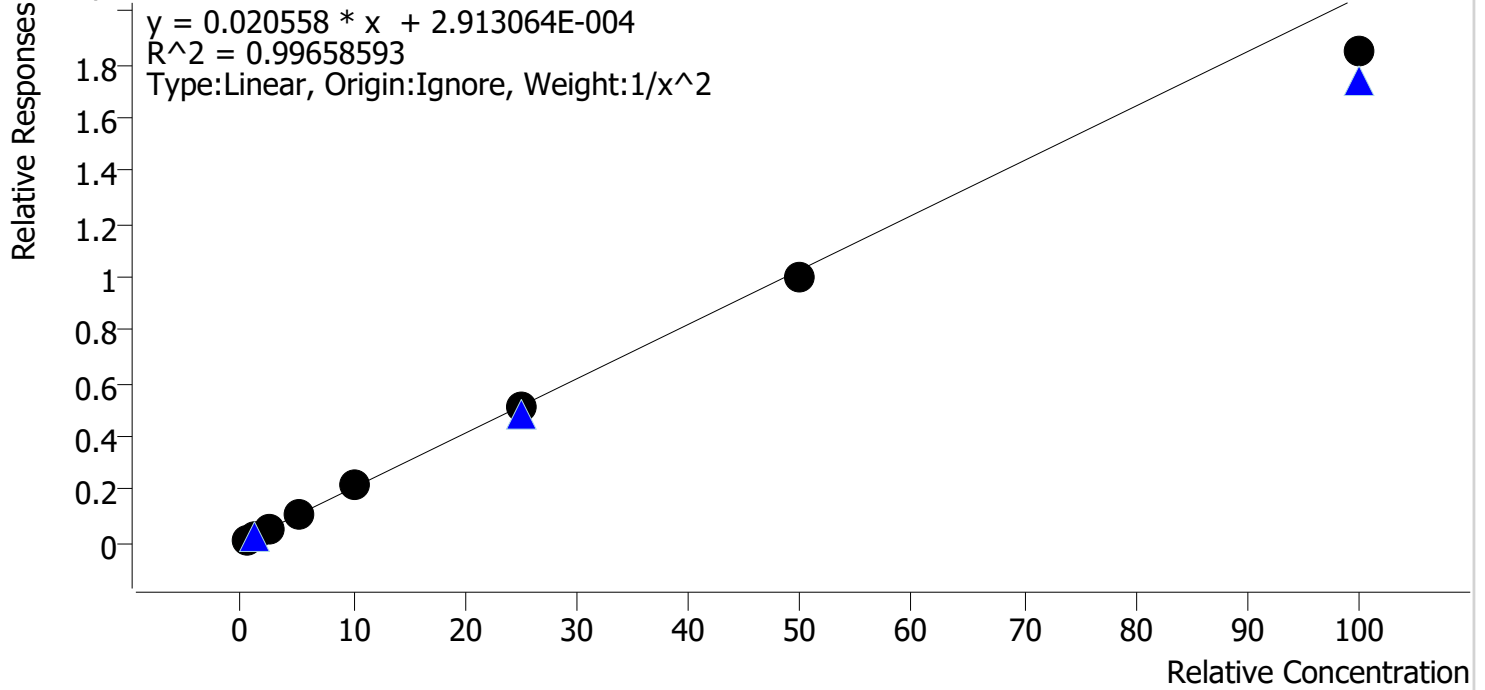


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.8
cal 2 mdq	2	✓	10.0	9.6	95.9
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	50.9	101.8
cal 5 mdq	5	✓	100.0	101.7	101.7
cal 6 mdq	6	✓	250.0	245.3	98.1
cal 7 mdq	7	✓	500.0	495.9	99.2
cal 8 mdq	8	✓	1000.0	1012.6	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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

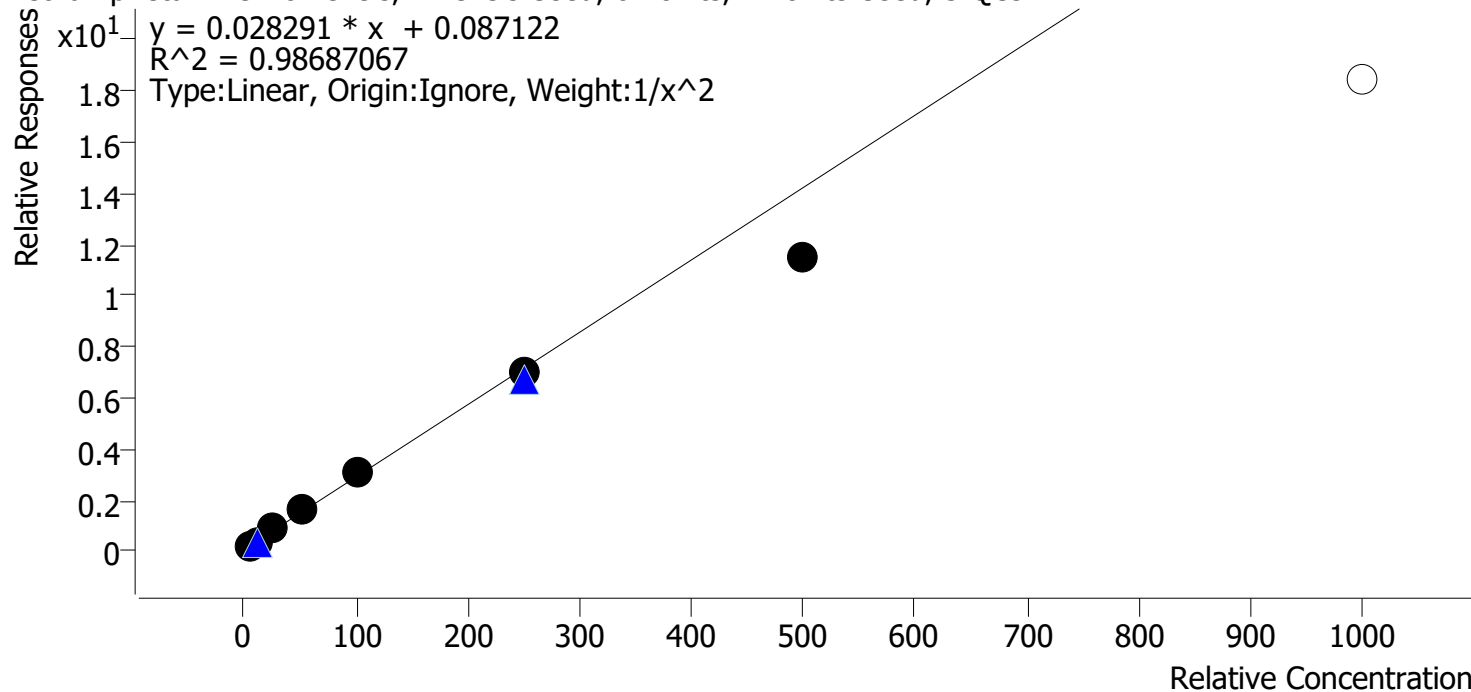


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	96.8
cal 2 mdq	2	✓	1.0	1.0	104.1
cal 3 mdq	3	✓	2.5	2.6	102.6
cal 4 mdq	4	✓	5.0	5.2	104.3
cal 5 mdq	5	✓	10.0	10.5	104.5
cal 6 mdq	6	✓	25.0	25.1	100.3
cal 7 mdq	7	✓	50.0	48.6	97.2
cal 8 mdq	8	✓	100.0	90.0	90.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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

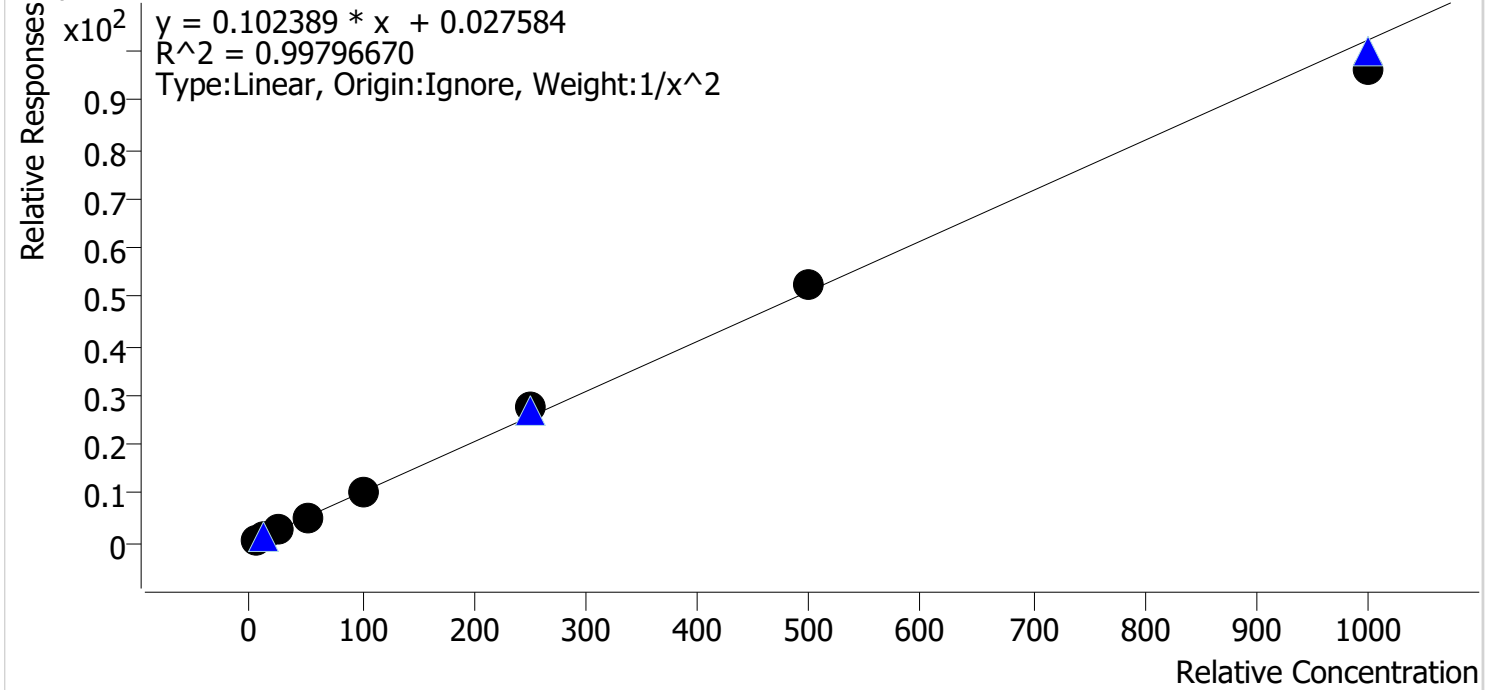


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.9
cal 2 mdq	2	✓	10.0	10.3	102.6
cal 3 mdq	3	✓	25.0	27.5	110.0
cal 4 mdq	4	✓	50.0	53.4	106.9
cal 5 mdq	5	✓	100.0	105.6	105.6
cal 6 mdq	6	✓	250.0	244.9	98.0
cal 7 mdq	7	✓	500.0	404.7	80.9
cal 8 mdq	8	✗	1000.0	648.0	64.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

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

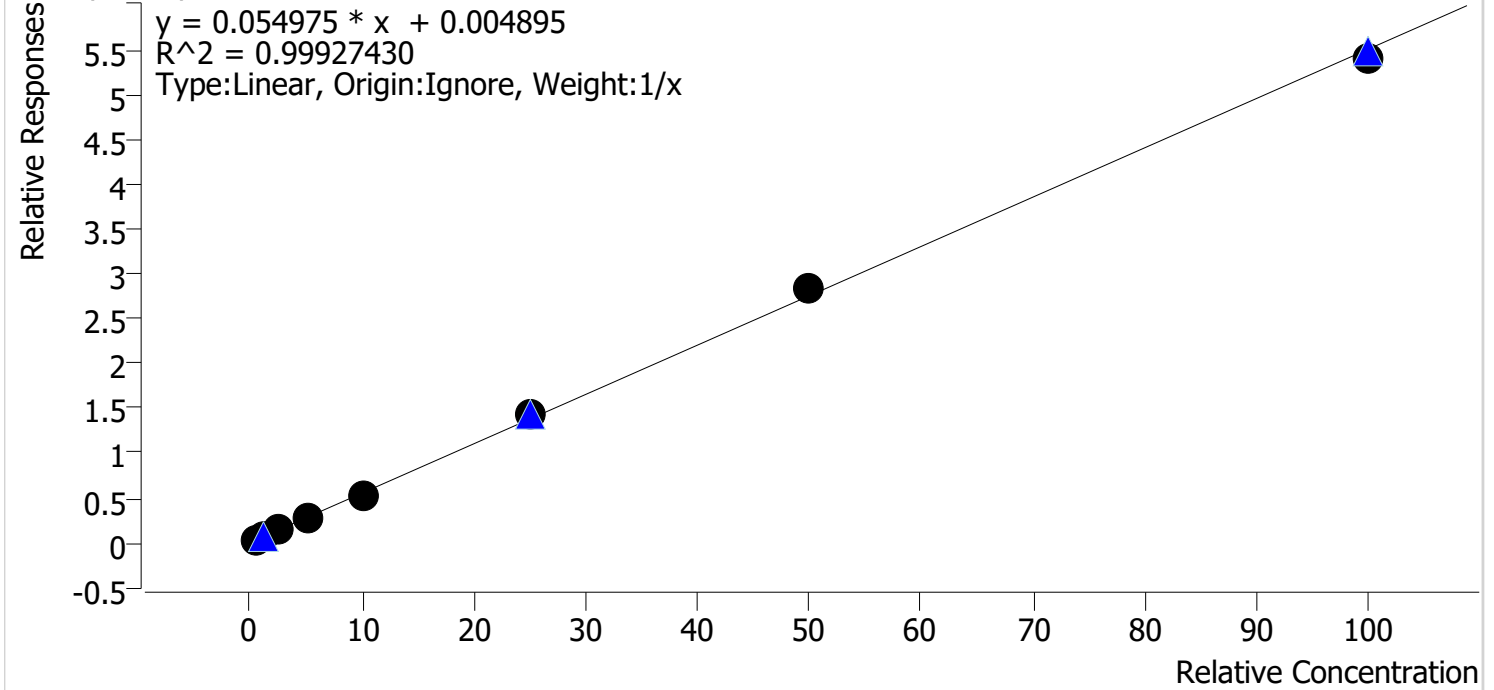


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.4
cal 2 mdq	2	✓	10.0	9.7	97.4
cal 3 mdq	3	✓	25.0	24.8	99.4
cal 4 mdq	4	✓	50.0	49.9	99.7
cal 5 mdq	5	✓	100.0	97.6	97.6
cal 6 mdq	6	✓	250.0	267.3	106.9
cal 7 mdq	7	✓	500.0	516.6	103.3
cal 8 mdq	8	✓	1000.0	942.4	94.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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

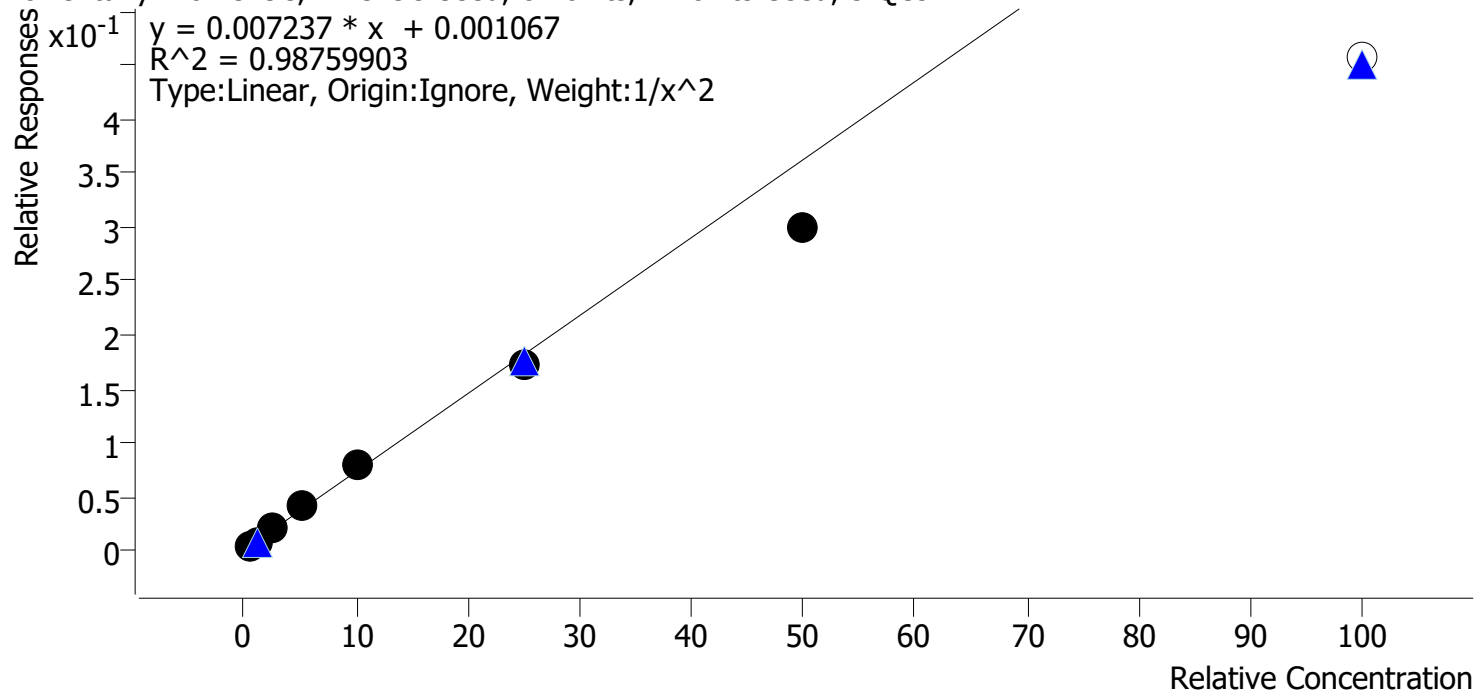


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	107.3
cal 2 mdq	2	✓	1.0	0.9	94.8
cal 3 mdq	3	✓	2.5	2.5	98.7
cal 4 mdq	4	✓	5.0	4.8	96.9
cal 5 mdq	5	✓	10.0	9.8	97.6
cal 6 mdq	6	✓	25.0	26.0	104.0
cal 7 mdq	7	✓	50.0	51.4	102.7
cal 8 mdq	8	✓	100.0	98.1	98.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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

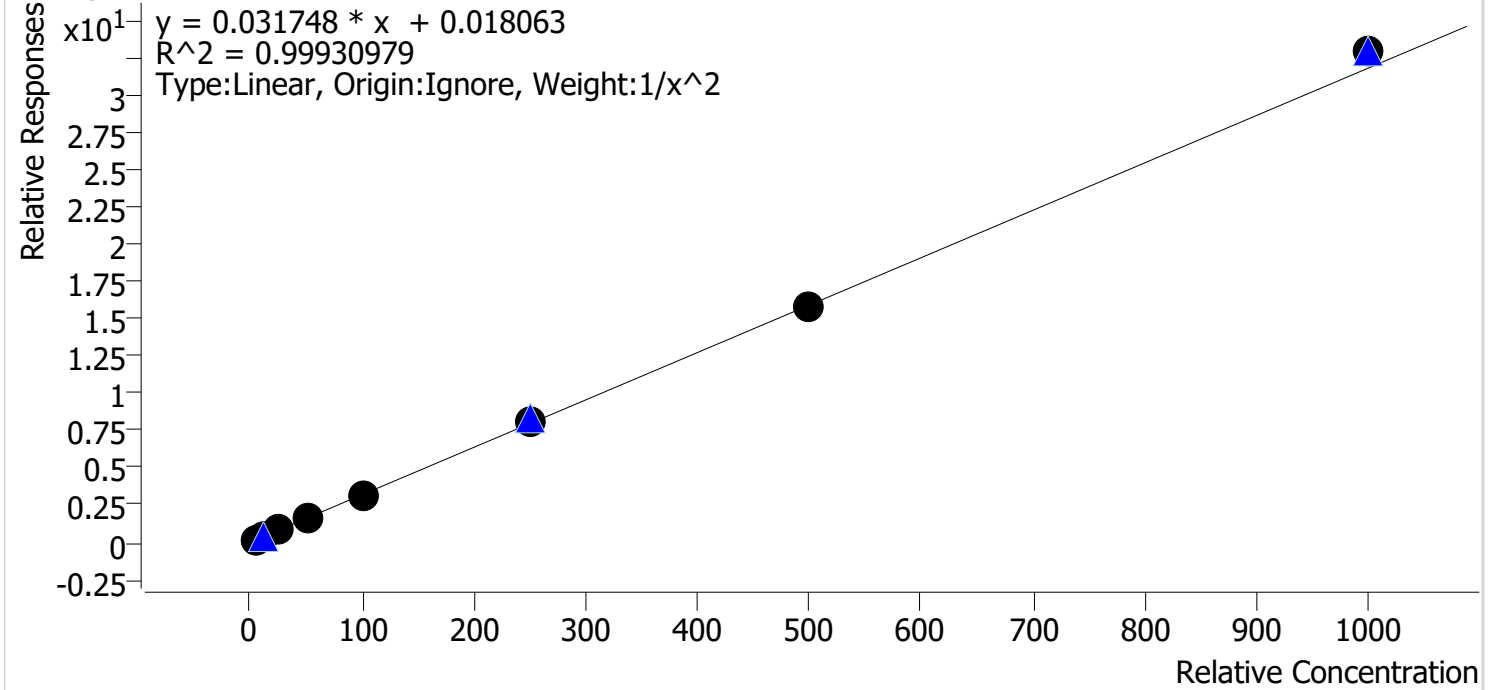


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	97.1
cal 2 mdq	2	✓	1.0	1.0	100.3
cal 3 mdq	3	✓	2.5	2.7	109.1
cal 4 mdq	4	✓	5.0	5.4	108.5
cal 5 mdq	5	✓	10.0	10.7	107.3
cal 6 mdq	6	✓	25.0	23.8	95.0
cal 7 mdq	7	✓	50.0	41.4	82.8
cal 8 mdq	8	✗	100.0	63.1	63.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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

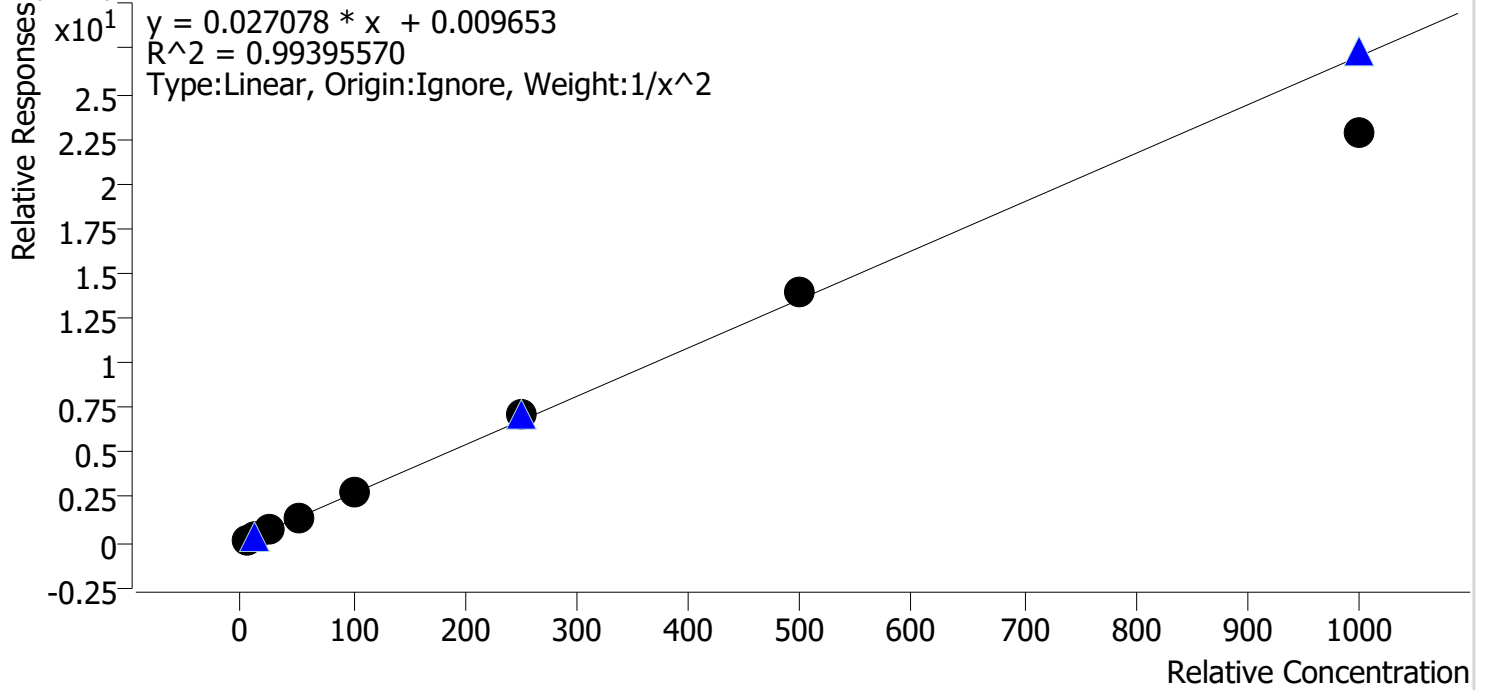


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.9
cal 2 mdq	2	✓	10.0	10.1	100.8
cal 3 mdq	3	✓	25.0	25.2	100.8
cal 4 mdq	4	✓	50.0	47.9	95.7
cal 5 mdq	5	✓	100.0	98.1	98.1
cal 6 mdq	6	✓	250.0	253.7	101.5
cal 7 mdq	7	✓	500.0	499.4	99.9
cal 8 mdq	8	✓	1000.0	1033.3	103.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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

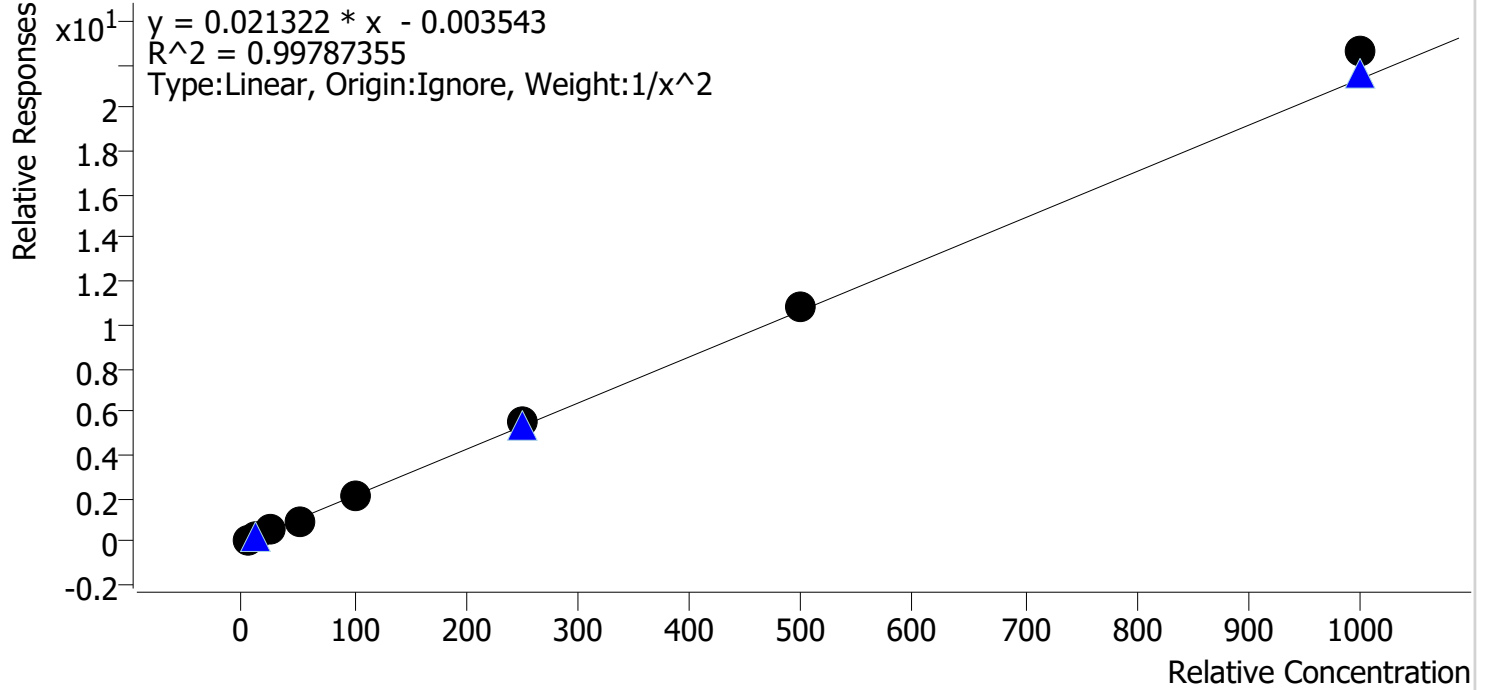


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.8
cal 2 mdq	2	✓	10.0	10.0	100.4
cal 3 mdq	3	✓	25.0	25.5	102.0
cal 4 mdq	4	✓	50.0	51.6	103.1
cal 5 mdq	5	✓	100.0	103.7	103.7
cal 6 mdq	6	✓	250.0	262.7	105.1
cal 7 mdq	7	✓	500.0	514.2	102.8
cal 8 mdq	8	✓	1000.0	839.5	84.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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

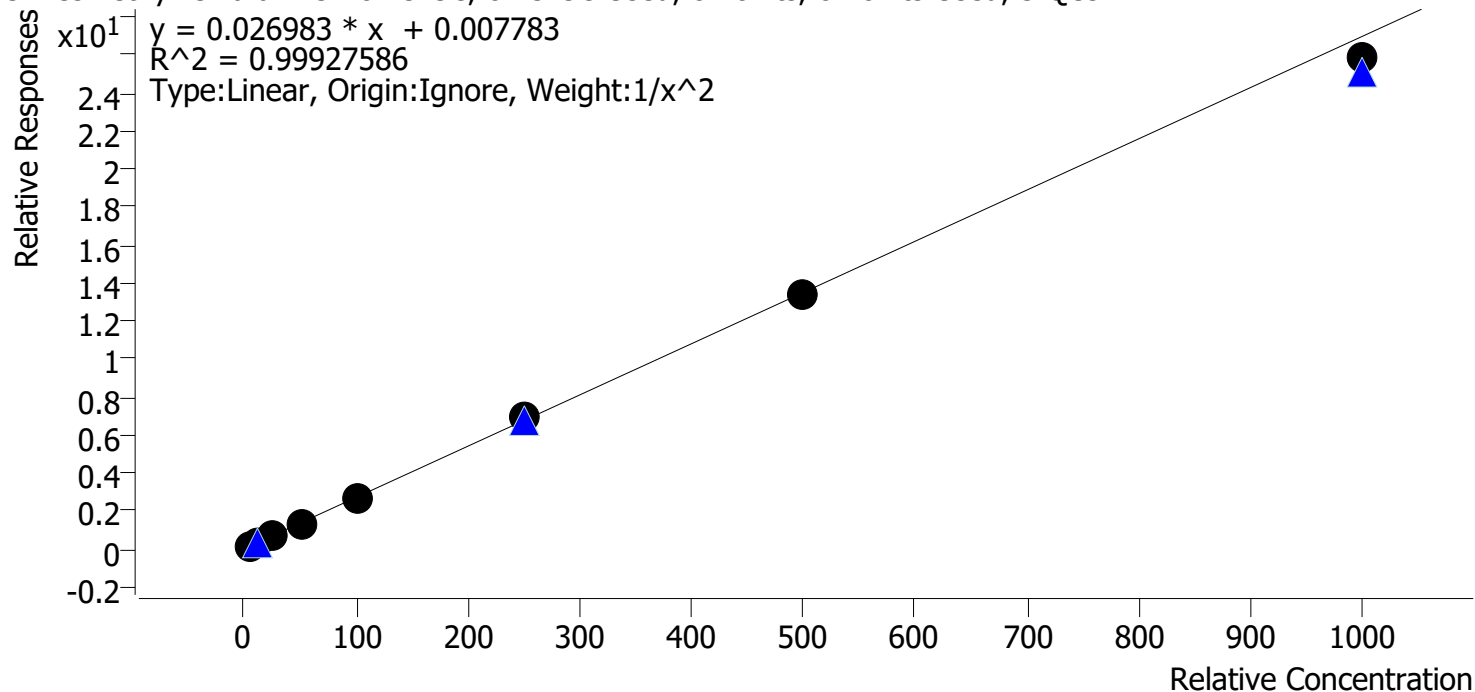


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.7
cal 2 mdq	2	✓	10.0	9.7	96.6
cal 3 mdq	3	✓	25.0	24.4	97.7
cal 4 mdq	4	✓	50.0	47.5	95.0
cal 5 mdq	5	✓	100.0	96.5	96.5
cal 6 mdq	6	✓	250.0	258.5	103.4
cal 7 mdq	7	✓	500.0	510.7	102.1
cal 8 mdq	8	✓	1000.0	1059.2	105.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Last Cal. Update 10/29/2024 4:53 PM
Analyst Name ISP\datastor
Analyte O-Desmethylvenlafaxine **Internal Standard** O-Desmethylvenlafaxine-d6

O-Desmethylvenlafaxine - 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	99.1
cal 2 mdq	2	✓	10.0	10.1	100.7
cal 3 mdq	3	✓	25.0	25.7	102.9
cal 4 mdq	4	✓	50.0	49.4	98.7
cal 5 mdq	5	✓	100.0	101.3	101.3
cal 6 mdq	6	✓	250.0	256.2	102.5
cal 7 mdq	7	✓	500.0	494.7	98.9
cal 8 mdq	8	✓	1000.0	958.0	95.8

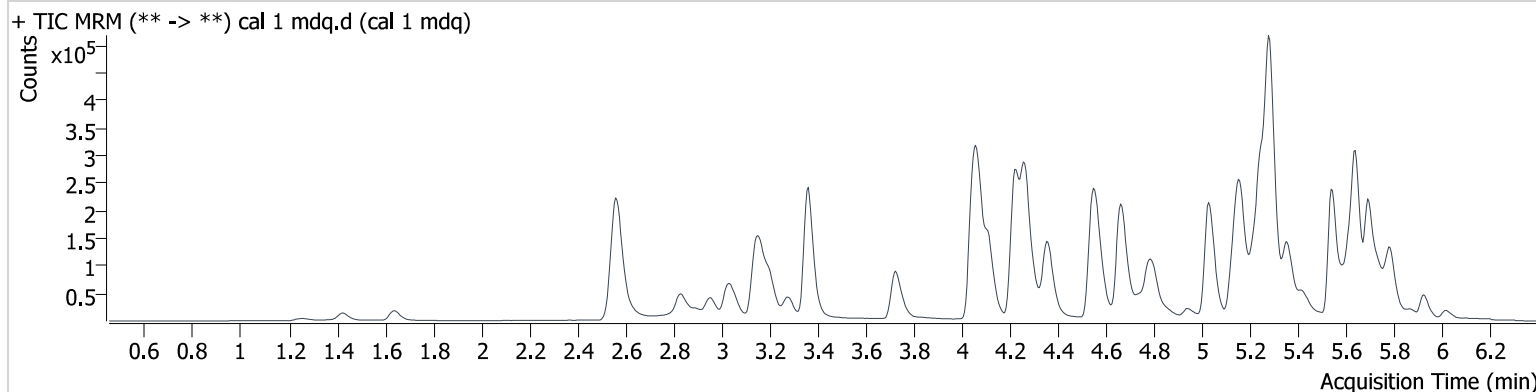
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-A1
Injection Volume 2
Acq. Date-Time 10/29/2024 12:27:29 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	3.031	19403	729.1	274.26	5024.8	112481	4.786 ng/ml
Benzoylcegonine	3.862	610	133.3	54.15	47.8	3808	4.419 ng/ml
Buprenorphine	6.033	1372	311.8	18.46	23.8	36081	0.486 ng/ml
Citalopram	5.223	34668	1063.0	39.48	42831.1	303413	5.052 ng/ml
Cocaine	4.265	37021	5543.4	47.48	3229.5	547836	5.089 ng/ml
Fentanyl	5.151	3594	1696.9	140.82	2698.3	350887	0.484 ng/ml
Methamphetamine	3.210	77988	31691.2	35.60	499.5	349962	4.797 ng/ml
Morphine	1.272	1770	976.1	15.19	94.9	3237	5.072 ng/ml
Norbuprenorphine	4.990	248	75.0	106.06	10.8	7221	0.537 ng/ml
Norfentanyl	4.074	2047	114.7	30.25	271.5	446859	0.485 ng/ml
Noroxycodone	2.921	6997	3364.4	44.92	∞	39599	4.997 ng/ml
O-Desmethylenlafaxine	4.062	19960	554.1	532.20	8365.1	141103	4.954 ng/ml
Oxymorphone	1.430	5500	688.4	43.37	188.9	38336	4.942 ng/ml
Venlafaxine	5.028	58633	4228.8	34.53	956.2	553409	5.135 ng/ml

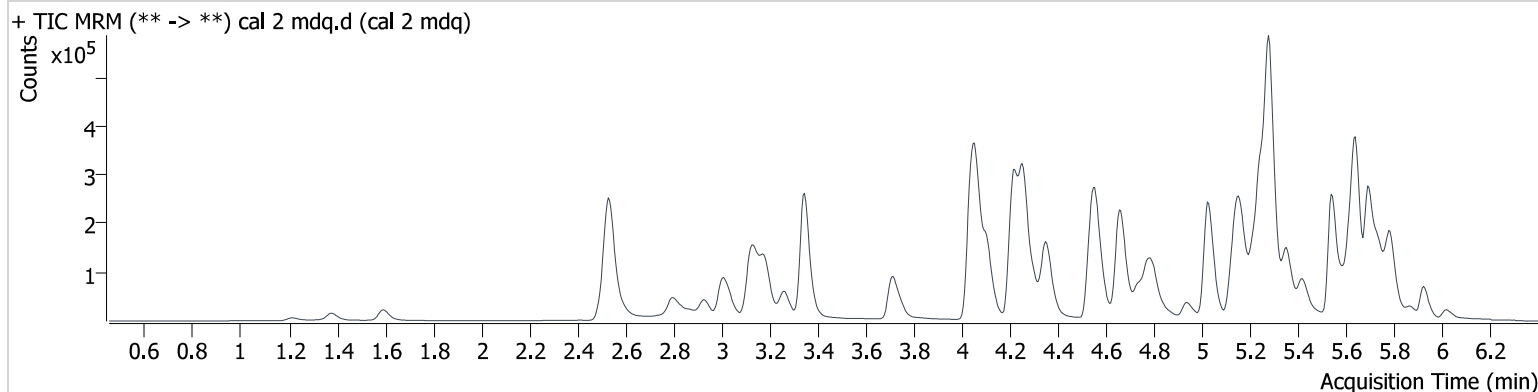
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-B1
Injection Volume 2
Acq. Date-Time 10/29/2024 12:36:19 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	3.011	39976	7106.0	273.72	18603.8	112867	10.629 ng/ml
Benzoylcegonine	3.846	1294	360.7	41.54	69.1	3754	10.331 ng/ml
Buprenorphine	6.038	4154	378.1	16.18	80.2	45664	1.055 ng/ml
Citalopram	5.218	64837	∞	40.48	68483.6	298429	9.602 ng/ml
Cocaine	4.260	68218	1524.4	48.59	3230.0	539581	9.590 ng/ml
Fentanyl	5.146	7370	2263.2	136.16	7358.5	339608	1.041 ng/ml
Methamphetamine	3.184	133914	∞	34.11	3626.4	354808	10.261 ng/ml
Morphine	1.221	3302	733.7	17.25	62.5	3222	9.740 ng/ml
Norbuprenorphine	4.984	459	164.9	118.41	169.3	8053	0.948 ng/ml
Norfentanyl	4.064	3989	530.4	34.00	358.8	478997	1.003 ng/ml
Noroxycodone	2.890	12872	∞	43.73	468.2	38086	10.077 ng/ml
O-Desmethylenlafaxine	4.057	38788	724.4	531.44	9190.4	138714	10.075 ng/ml
Oxymorphone	1.385	10529	2611.5	44.31	1619.7	37395	10.041 ng/ml
Venlafaxine	5.028	112324	∞	35.45	3634.4	554682	9.664 ng/ml

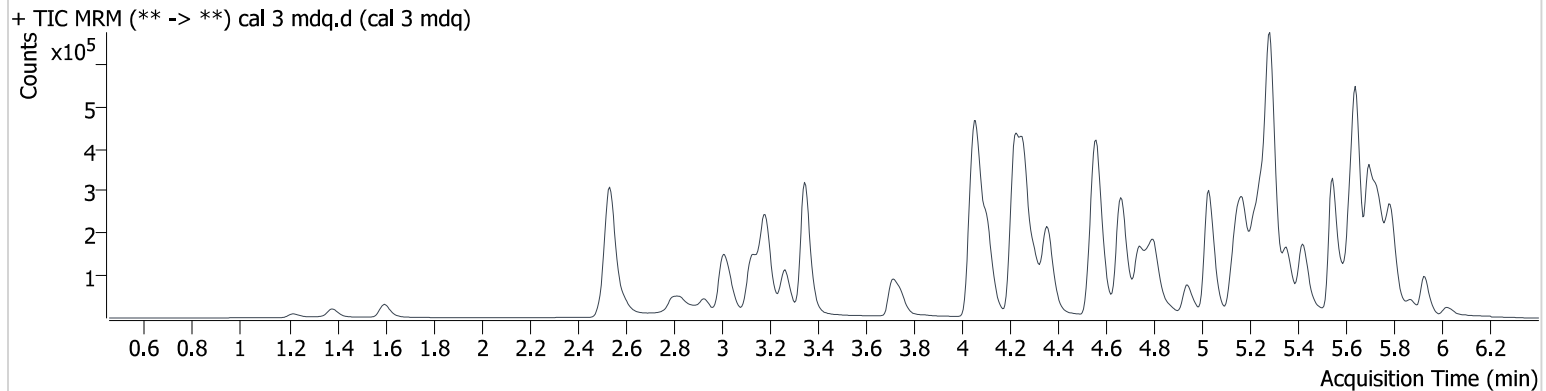
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 10/29/2024 12:45:01 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	3.011	90520	16377.3	273.96	19244.0	108081	26.173	ng/ml
Benzoylcegonine	3.846	2682	313.9	42.48	291.7	3353	24.907	ng/ml
Buprenorphine	6.038	9165	416.1	16.56	561.5	40939	2.485	ng/ml
Citalopram	5.223	162748	17736.1	38.99	141410.2	281862	25.509	ng/ml
Cocaine	4.260	163999	6590.8	47.63	27520.0	498757	25.068	ng/ml
Fentanyl	5.146	17757	13003.5	132.76	2666.6	334905	2.565	ng/ml
Methamphetamine	3.190	286001	120714.3	35.06	3293.9	330461	27.512	ng/ml
Morphine	1.221	7519	1291.4	16.85	408.1	2924	24.840	ng/ml
Norbuprenorphine	4.984	994	59.9	114.76	132.4	7074	2.466	ng/ml
Norfentanyl	4.064	9005	528.1	32.91	317.6	432922	2.727	ng/ml
Noroxycodone	2.895	29472	∞	44.67	∞	36024	25.200	ng/ml
O-Desmethylenlafaxine	4.057	90415	1064.4	541.13	16742.7	128760	25.736	ng/ml
Oxymorphone	1.385	24477	4232.1	44.18	∞	34956	25.503	ng/ml
Venlafaxine	5.028	264945	∞	34.69	1464.1	512429	24.415	ng/ml

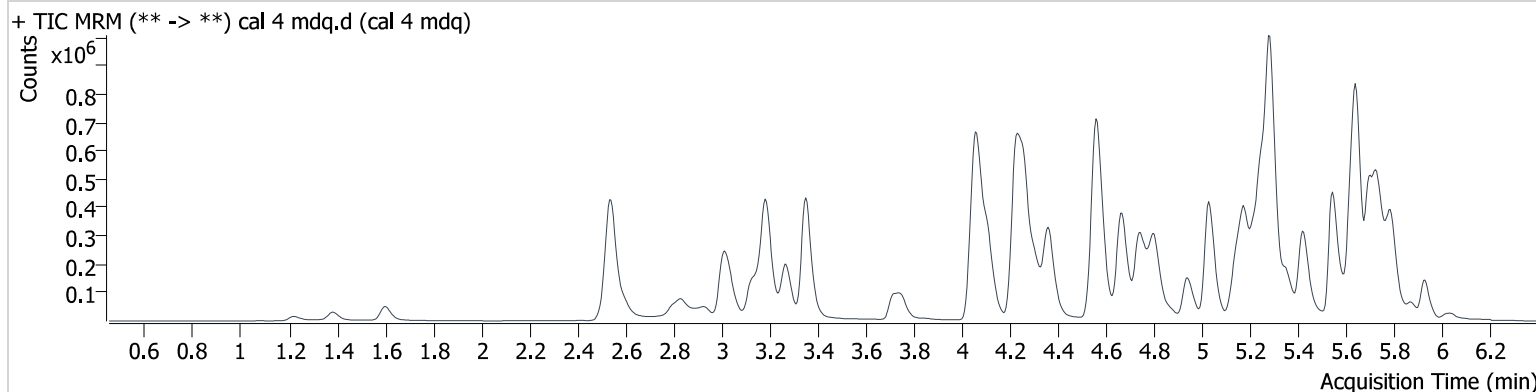
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-D1
Injection Volume 2
Acq. Date-Time 10/29/2024 12:53:43 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	3.011	170644	23066.3	271.12	52318.3	105721	51.148 ng/ml
Benzoylcegonine	3.851	5567	2530.5	48.31	317.5	3845	45.663 ng/ml
Buprenorphine	6.038	18845	1508.4	15.43	260.2	42045	4.898 ng/ml
Citalopram	5.223	316275	63120.7	39.12	503305.5	265068	52.709 ng/ml
Cocaine	4.260	329133	24597.2	46.48	47009.9	493758	50.902 ng/ml
Fentanyl	5.146	35240	14364.9	128.61	7361.7	327704	5.217 ng/ml
Methamphetamine	3.190	529939	∞	35.15	3597.4	331502	53.426 ng/ml
Morphine	1.221	14608	2197.6	16.98	529.3	2846	49.861 ng/ml
Norbuprenorphine	4.990	1967	128.7	100.44	233.9	7255	4.843 ng/ml
Norfentanyl	4.064	17050	923.1	32.58	1049.2	422838	5.424 ng/ml
Noroxycodone	2.895	56258	∞	46.55	∞	36587	47.863 ng/ml
O-Desmethylenlafaxine	4.062	172311	1144.3	545.76	∞	128591	49.372 ng/ml
Oxymorphone	1.385	47399	∞	42.92	∞	33711	51.570 ng/ml
Venlafaxine	5.028	522051	8626.2	34.78	3952.3	517225	47.504 ng/ml

AM #28 Multi-Drug Quant. Results

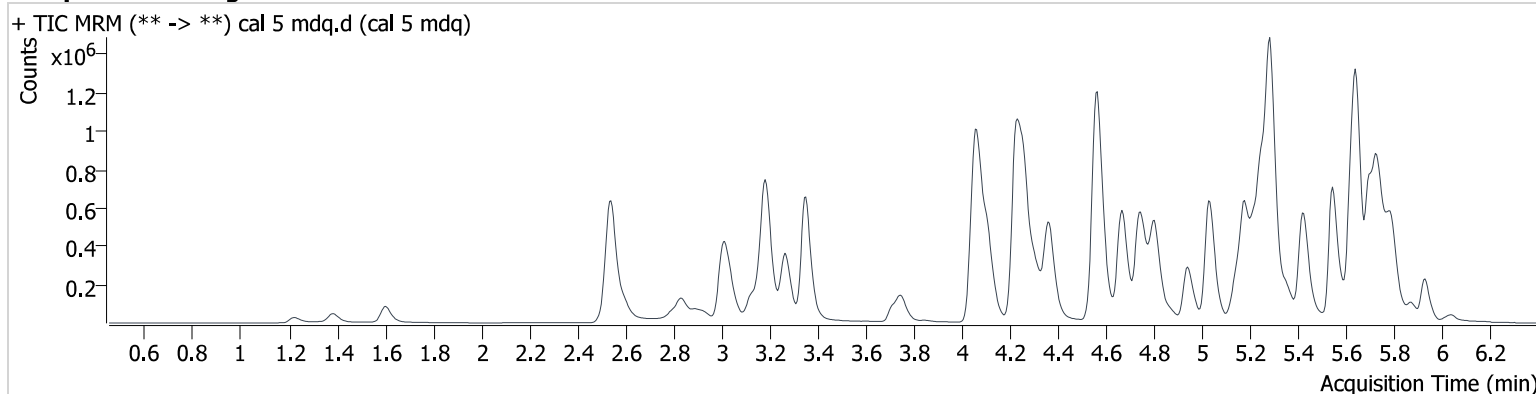
Batch results D:\MassHunter\Data\2024\am 27-28\102924\QuantResults\am 28 samples.batch.bin
Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-E1
Injection Volume 2
Acq. Date-Time 10/29/2024 1:02:24 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	3.011	323457	103314.6	264.20	83643.0	98512	104.833	ng/ml
Benzoylcegonine	3.851	11685	2490.8	44.55	730.1	3282	113.330	ng/ml
Buprenorphine	6.038	40318	5170.3	15.22	957.5	39861	10.957	ng/ml
Citalopram	5.223	584414	83593.0	40.40	797257.9	259376	99.528	ng/ml
Cocaine	4.260	612446	52235.6	46.73	20821.8	460176	101.709	ng/ml
Fentanyl	5.146	67652	15491.9	133.14	28560.1	314455	10.451	ng/ml
Methamphetamine	3.190	983963	389174.7	37.31	33357.9	319900	105.641	ng/ml
Morphine	1.221	28060	1104.9	16.98	1167.3	2800	97.592	ng/ml
Norbuprenorphine	4.990	3863	993.7	103.13	601.7	7131	9.764	ng/ml
Norfentanyl	4.069	30909	4254.2	32.08	3540.1	392671	10.729	ng/ml
Noroxycodone	2.895	111600	∞	46.59	∞	35628	98.095	ng/ml
O-Desmethylenlafaxine	4.062	320020	424.4	540.96	132835.3	116794	101.259	ng/ml
Oxymorphone	1.385	89728	∞	43.61	∞	31836	103.729	ng/ml
Venlafaxine	5.034	1007323	9221.1	35.14	37033.0	490313	96.521	ng/ml

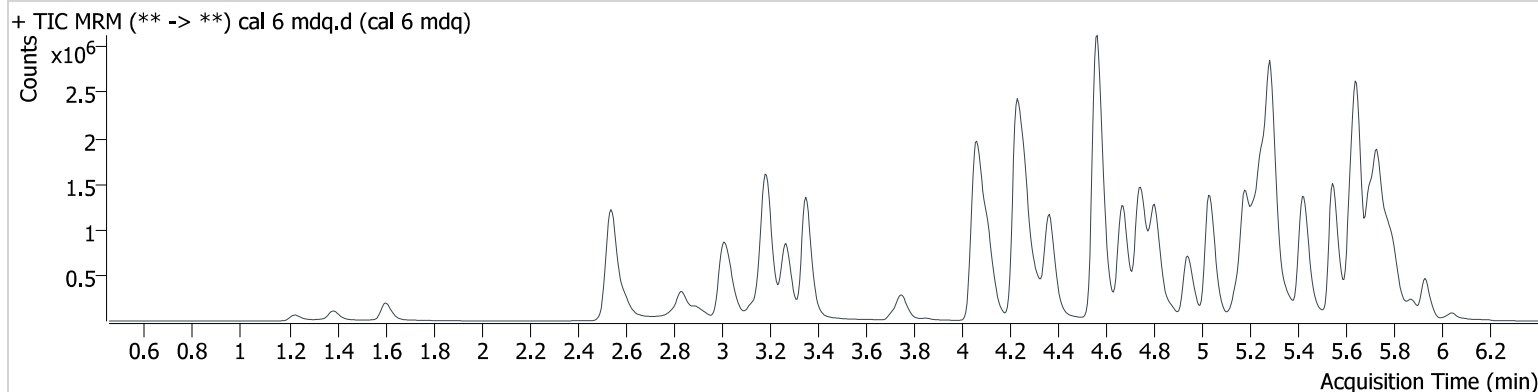
AM #28 Multi-Drug Quant. Results

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Calibration Last Update 10/29/2024 4:53:53 PM

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Sample Position P2-F1
Injection Volume 2
Acq. Date-Time 10/29/2024 1:11:04 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	3.011	706913	18838.2	267.58	∞	105164	215.417 ng/ml
Benzoylcegonine	3.851	31210	23140.9	44.31	2495.6	3780	263.765 ng/ml
Buprenorphine	6.038	107463	10781.1	15.10	1278.8	46135	25.132 ng/ml
Citalopram	5.223	1382246	928848.2	42.37	∞	237001	257.617 ng/ml
Cocaine	4.260	1493023	29316.9	47.31	29340.2	465421	245.264 ng/ml
Fentanyl	5.146	171273	9130.9	134.62	15879.8	331942	25.085 ng/ml
Methamphetamine	3.190	2418640	1249425.3	34.80	49799.9	344752	244.898 ng/ml
Morphine	1.226	77993	19212.0	16.53	2462.2	2846	267.349 ng/ml
Norbuprenorphine	4.984	9572	2051.9	100.26	789.6	6676	25.994 ng/ml
Norfentanyl	4.069	60338	7787.1	32.19	4156.9	348861	23.751 ng/ml
Noroxycodone	2.895	264377	∞	46.69	∞	32751	253.690 ng/ml
O-Desmethylenlafaxine	4.057	734820	50374.7	534.06	168687.2	106166	256.225 ng/ml
Oxymorphone	1.385	235779	∞	43.77	∞	33105	262.668 ng/ml
Venlafaxine	5.028	2719443	207690.5	33.80	42315.8	493645	258.537 ng/ml

AM #28 Multi-Drug Quant. Results

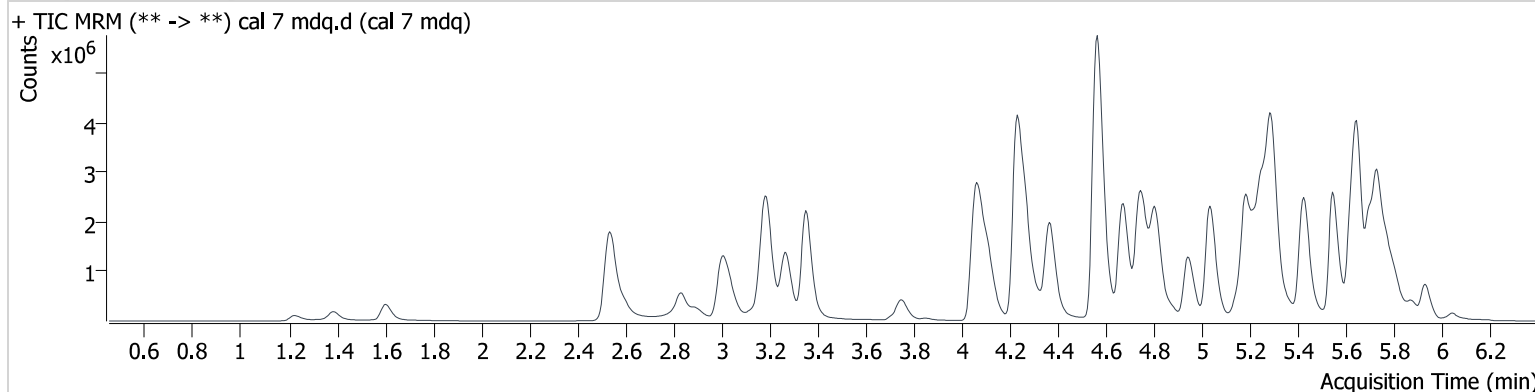
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Calibration Last Update 10/29/2024 4:53:53 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-G1
Injection Volume 2
Acq. Date-Time 10/29/2024 1:19:46 PM
Sample Info.

Data File cal 7 mdq.d
Sample cal 7 mdq
Operator Anne Nord
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Amphetamine	3.006	1138089	50036.3	259.86	283519.2	98453	370.996	ng/ml
Benzoyllecgonine	3.851	64258	8576.5	45.19	2844.1	4050	507.559	ng/ml
Buprenorphine	6.038	206801	26190.3	15.49	2530.2	45130	49.367	ng/ml
Citalopram	5.223	2199917	129202.5	43.05	3907773.0	196803	493.752	ng/ml
Cocaine	4.265	2532088	111066.5	46.54	40153.0	390463	495.888	ng/ml
Fentanyl	5.151	333697	∞	133.88	21499.9	333792	48.616	ng/ml
Methamphetamine	3.190	3945688	645636.9	36.20	530791.1	342017	404.699	ng/ml
Morphine	1.226	137968	19944.8	17.04	1999.9	2607	516.568	ng/ml
Norbuprenorphine	4.990	16902	4993.8	105.39	4629.6	5977	51.350	ng/ml
Norfentanyl	4.069	78438	∞	31.86	7524.3	261018	41.376	ng/ml
Noroxycodone	2.890	473413	∞	45.43	∞	29827	499.357	ng/ml
O-Desmethylenlafaxine	4.062	1094680	1097.4	542.94	111944.5	81962	494.691	ng/ml
Oxymorphone	1.385	427377	∞	43.46	∞	30671	514.233	ng/ml
Venlafaxine	5.034	4905123	141831.7	34.63	32282.5	450630	510.680	ng/ml

AM #28 Multi-Drug Quant. Results

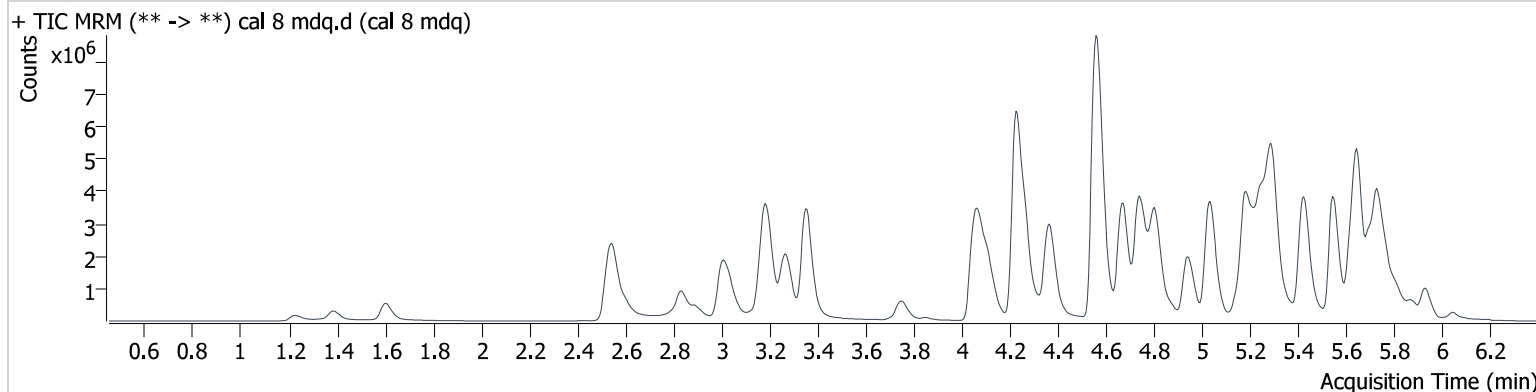
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Instrument 69679
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Sample Position P2-H1
Injection Volume 2
Acq. Date-Time 10/29/2024 1:37:08 PM
Sample Info.

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	3.006	1642474	136202.2	254.30	286259.7	91323	577.644 ng/ml
Benzoylecgonine	3.851	127094	16095.4	47.10	6741.6	4194	970.025 ng/ml
Buprenorphine	6.044	374558	21083.5	15.47	8136.5	44230	91.168 ng/ml
Citalopram	5.223	2963939	∞	44.85	870475.2	139045	941.555 ng/ml
Cocaine	4.265	3772648	1732261.1	45.91	738475.7	284913	1012.638 ng/ml
Fentanyl	5.146	577266	103023.4	140.39	218366.6	311897	90.017 ng/ml
Methamphetamine	3.184	6202275	696100.6	36.57	184067.1	336699	648.036 ng/ml
Morphine	1.226	226630	16093.2	17.09	4343.4	2348	942.358 ng/ml
Norbuprenorphine	4.990	30024	27364.5	101.28	15309.6	5562	98.098 ng/ml
Norfentanyl	4.069	82512	7167.6	31.47	8380.1	180340	63.073 ng/ml
Noroxycodone	2.890	819007	∞	43.02	3327.0	24952	1033.315 ng/ml
O-Desmethylenlafaxine	4.057	1448738	67055.7	542.81	∞	56030	957.965 ng/ml
Oxymorphone	1.385	758973	∞	42.98	∞	33373	839.514 ng/ml
Venlafaxine	5.035	8672967	1713656.7	33.40	146915.4	384097	1059.187 ng/ml