

CS

12/18/2024

Worklist: 7000

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2024-4589	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2024-4781	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3518	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3589	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3610	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3635	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3653	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3654	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3687	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3688	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3715	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3722	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3723	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3730	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2024-3744	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 12/17/2024

Plate lot#: 240528

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

Blank Blood Lot: Lampire 24C52817

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 03/12/2025

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate LC Methanol

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

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** into the appropriate wells of the analytical (standards) plate.
Pipette ID: 16
- ☒ 3. Pipette **250µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 5. Transfer **300L of blood+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: 067104
- ☒ 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.
- ☒ 15. Add 50µl of 1% HCl in MeOH to all wells in the run and place ACT cover on top of plate prior to drying.
- ☒ 16. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- ☒ 17. 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 included in central file:

Alprazolam

Amphetamine 5-100 --calibrators 6, 7 and 8 dropped due to accuracy- QUALITATIVE ONLY

Benzoylcegonine

Citalopram

Cocaine

2

Diphenhydramine
Doxylamine
EDDP
Fentanyl
Hydromorphone
Lorazepam
Methadone
Methamphetamine 5-500 --calibrator 8 dropped due to accuracy
Mitragynine
Morphine
Norbuprenorphine
Nordiazepam
Norfentanyl
o-desmethylenlafaxine
Promethazine
Sertraline
Trazodone 5-500 --calibrator 8 dropped due to accuracy
Venlafaxine
Zolpidem

28

	1	2	3	4	5	6	7	8	9	10	11	12
A										P2024-3635-1	P2024-3730-1	IS + Cal. 8
B										P2024-3653-1	P2024-3744-1	IS + Cal. 7
C										P2024-3654-1	NEG Blood	IS + Cal. 6
D									M2024-4589-1	P2024-3687-1	IS + QC_2	IS + Cal. 5
E									M2024-4781-1	P2024-3688-1	IS + QC_4	IS + Cal. 4
F									P2024-3518-1	P2024-3715-1	IS + QC_3	IS + Cal. 3
G									P2024-3589-1	P2024-3722-1	IS + QC_2	IS + Cal. 2
H									P2024-3610-1	P2024-3723-1	IS + QC_1	IS + Cal. 1

AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

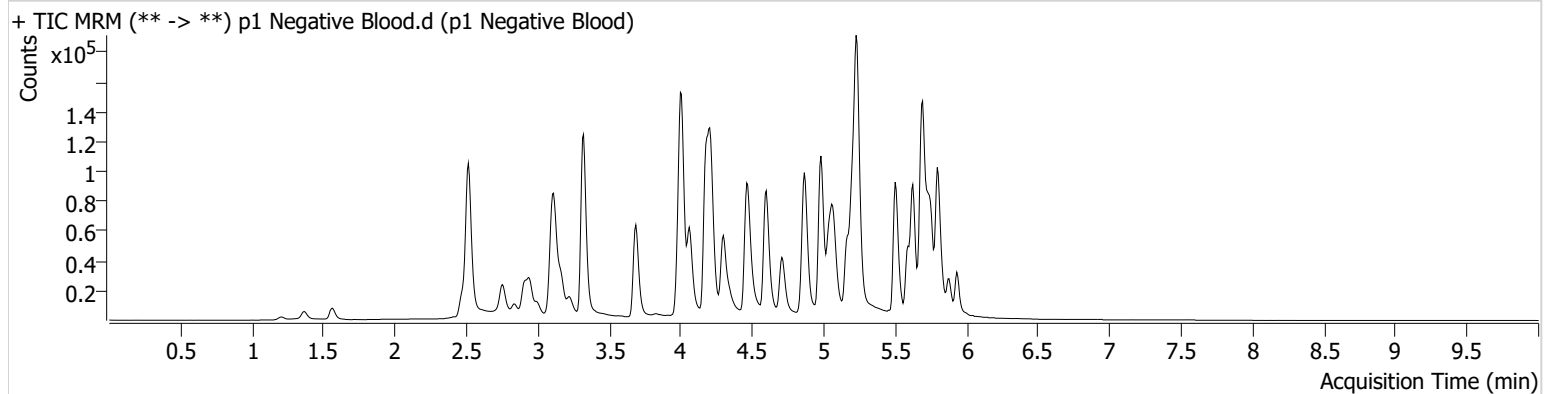
Instrument Falco (069901)
Type Sample
Acq. Method AM 28 MDQ P1.m
Sample Position P2-C11
Injection Volume 2
Acq. Date-Time 12/18/2024 3:25:48 AM
Sample Info.

Data File
Sample
Operator
Comment

p1 Negative Blood.d
p1 Negative Blood
Celena Shrum

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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



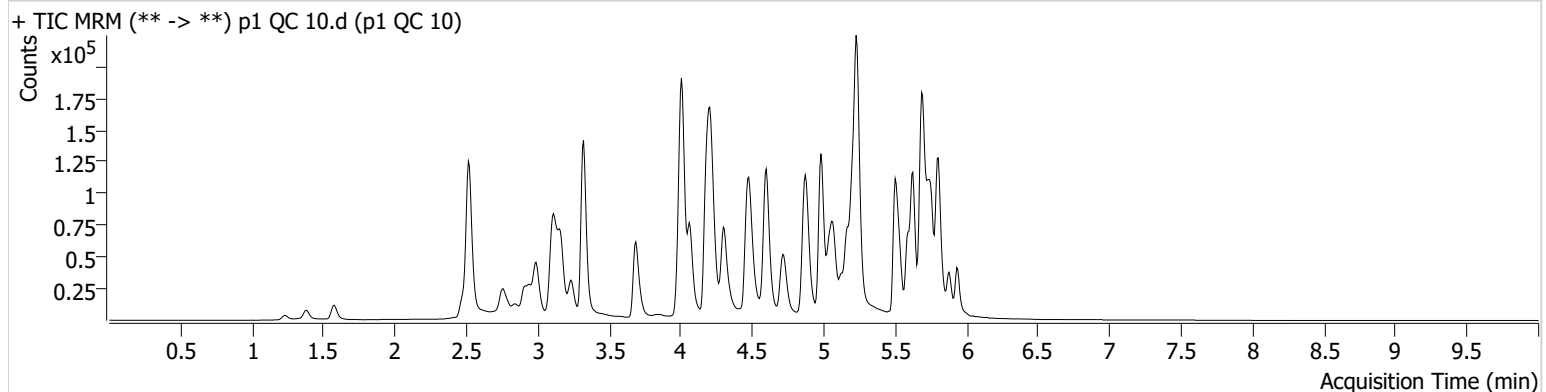
Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-H11
Injection Volume 2
Acq. Date-Time 12/18/2024 2:21:58 AM
Sample Info.

Data File p1 QC 10.d
Sample p1 QC 10
Operator Celena Shrum
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	19150	316.04	113.3	495.03	73554	9.8297 ng/ml
Amphetamine	2.992	64542	706.56	46.7	2137.21	68663	10.0370 ng/ml
Benzoylcegonine	3.862	1005	296.26	42.6	51.66	3357	9.9565 ng/ml
Citalopram	5.167	26406	11737.39	37.5	16397.64	125543	9.2992 ng/ml
Cocaine	4.210	20144	318.76	57.3	625.43	200953	9.5265 ng/ml
Diphenhydramine	5.238	68143	516.68	32.3	1709.24	401442	9.1804 ng/ml
Doxylamine	4.491	67107	877.72	99.7	5880.10	285769	9.2361 ng/ml
EDDP	5.210	25582	237.03	43.2	9152.52	124752	9.4608 ng/ml
Fentanyl	5.057	2424	133.14	65.8	644.95	129141	0.9296 ng/ml
Hydromorphone	1.582	7918	14685.33	75.8	16923.59	24598	9.8627 ng/ml
Lorazepam	5.734	13877	117.59	53.6	97.00	99860	9.6726 ng/ml
Methadone	5.626	44063	21724.72	51.3	875.72	165326	9.3722 ng/ml
Methamphetamine	3.168	84642	893.61	35.3	760.51	171436	10.1043 ng/ml
Mitragynine	5.192	7967	15026.78	38.7	3470.20	165326	10.2249 ng/ml
Morphine	1.240	1546	621.47	54.7	277.79	2099	9.9657 ng/ml
Norbuprenorphine	4.945	157	87.82	111.7	170.78	5966	1.0857 ng/ml
Nordiazepam	5.888	13713	936.01	57.7	5176.05	42051	9.6033 ng/ml
Norfentanyl	4.028	5108	3897.74	41.3	72.22	209502	0.9205 ng/ml
o-desmethylvenlafaxine	4.013	13302	451.44	277.7	443.60	57574	9.4950 ng/ml
Promethazine	5.504	36690	676.28	30.5	458.29	166413	9.6908 ng/ml
Sertraline	5.756	4511	269.12	93.7	945.52	18828	10.1337 ng/ml
Trazodone	5.124	39647	9705.49	62.3	138.71	137201	10.0379 ng/ml
Venlafaxine	4.983	53448	6407.77	32.2	176.02	272330	9.2151 ng/ml
Zolpidem	4.894	51585	7136.49	28.4	26473.68	209521	10.4254 ng/ml

AM #28 Multi-Drug Quant. Results



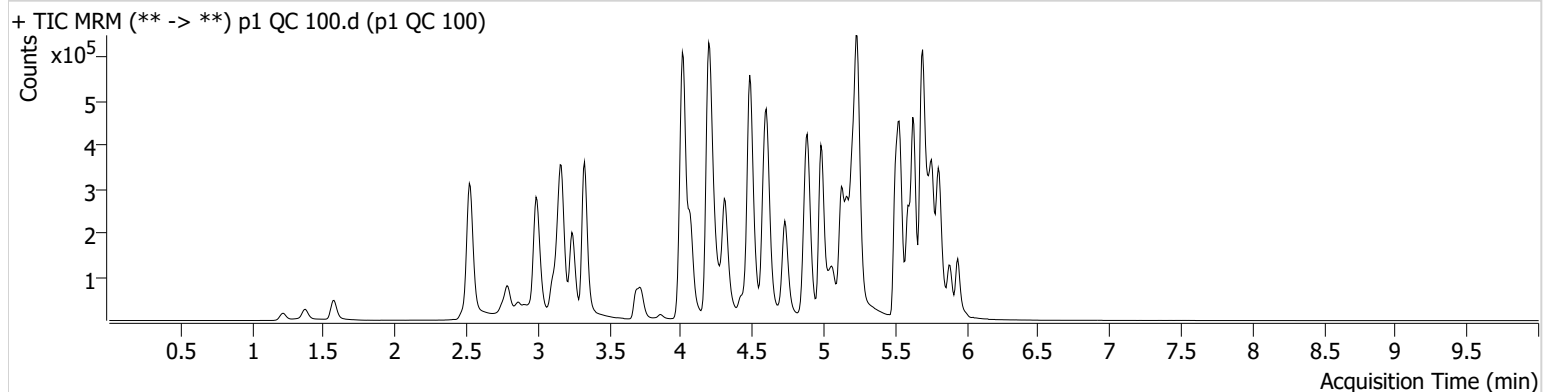
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-G11
Injection Volume 2
Acq. Date-Time 12/18/2024 11:50:02 AM
Sample Info.

Data File p1 QC 100.d
Sample p1 QC 100
Operator Celena Shrum
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	185966	514.29	114.6	1626.50	68697	102.5495 ng/ml
Amphetamine	2.999	526743	4411.96	46.2	5836.66	69734	92.0545 ng/ml
Benzoylcegonine	3.862	10563	15965.72	38.3	478.03	3318	108.4485 ng/ml
Citalopram	5.167	300152	22136.59	38.0	59461.34	134511	99.3437 ng/ml
Cocaine	4.210	205230	1439.44	57.2	261.26	196206	99.6514 ng/ml
Diphenhydramine	5.238	754451	141501.18	33.6	23602.25	441143	92.4054 ng/ml
Doxylamine	4.484	793048	592726.31	96.6	447868.55	317669	99.5781 ng/ml
EDDP	5.210	243436	806.49	42.4	1650.54	109918	103.9588 ng/ml
Fentanyl	5.057	29964	105.49	66.5	18425.40	162754	9.3894 ng/ml
Hydromorphone	1.575	78124	8095.21	74.8	8022.79	23591	103.1573 ng/ml
Lorazepam	5.734	84302	5058.75	53.2	858.42	66977	97.7207 ng/ml
Methadone	5.633	511422	5714.88	50.5	12513.01	195574	92.8797 ng/ml
Methamphetamine	3.168	538720	16143.36	35.9	5820.03	187433	106.0986 ng/ml
Mitragynine	5.192	91173	73121.26	37.9	6055.27	195574	102.5906 ng/ml
Morphine	1.220	15070	933.57	57.2	930.12	2034	98.2013 ng/ml
Norbuprenorphine	4.945	1499	1733.00	92.6	407.87	6388	10.3434 ng/ml
Nordiazepam	5.888	126757	8804.88	59.2	367.57	37792	103.0736 ng/ml
Norfentanyl	4.035	49552	1261.81	37.9	2148.59	179864	9.3052 ng/ml
o-desmethylvenlafaxine	4.020	130380	1925.32	275.6	119803.35	54361	97.4907 ng/ml
Promethazine	5.511	475277	2859.15	31.9	681.85	215726	97.8463 ng/ml
Sertraline	5.756	59738	7020.25	98.4	3365.04	25699	98.1875 ng/ml
Trazodone	5.131	440044	347728.08	69.1	369760.54	167025	100.4159 ng/ml
Venlafaxine	4.983	605487	885.64	31.4	1035.67	291694	98.7364 ng/ml
Zolpidem	4.894	557484	219407.50	29.5	4084.87	234158	104.3859 ng/ml

AM #28 Multi-Drug Quant. Results



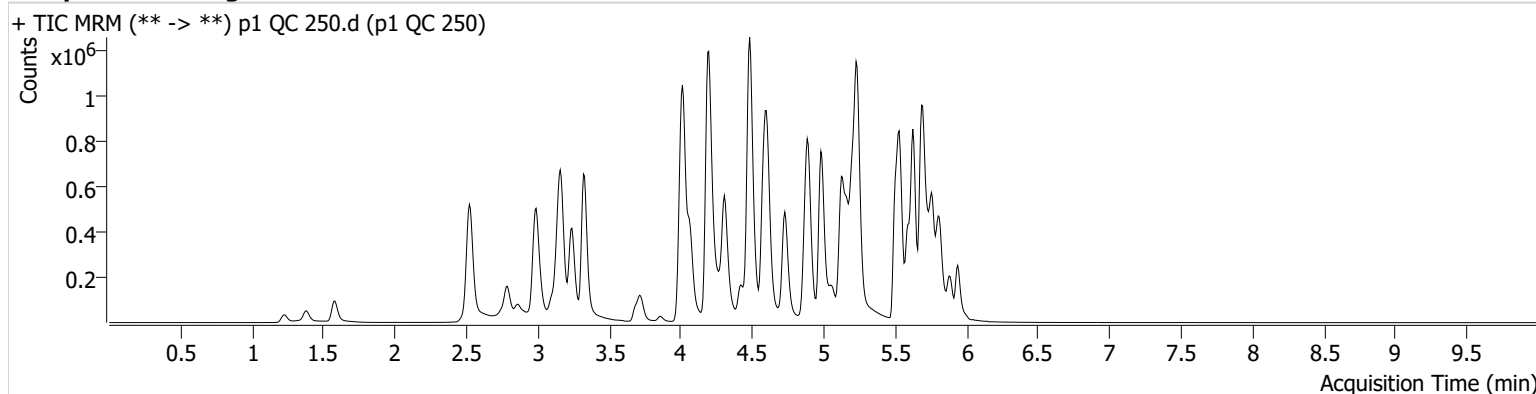
Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-F11
Injection Volume 2
Acq. Date-Time 12/18/2024 2:43:15 AM
Sample Info.

Data File p1 QC 250.d
Sample p1 QC 250
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	383910	720.34	111.8	549.11	56573	257.1292 ng/ml
Amphetamine	2.992	964114	54946.60	46.1	7072.51	65876	179.8767 ng/ml
Benzoylcegonine	3.855	25175	603.04	38.4	244.16	3347	256.5592 ng/ml
Citalopram	5.167	628379	958.92	37.9	406.61	110571	253.1196 ng/ml
Cocaine	4.210	433743	866.23	57.9	512.35	163289	253.1043 ng/ml
Diphenhydramine	5.238	1654355	113177.23	33.3	3351.20	371583	240.5418 ng/ml
Doxylamine	4.484	1864523	133461.32	97.0	23178.80	305933	243.3057 ng/ml
EDDP	5.210	510079	35836.21	42.1	13662.36	96663	247.9482 ng/ml
Fentanyl	5.057	69645	7551.15	69.0	11541.62	150266	23.6839 ng/ml
Hydromorphone	1.582	177383	265590.81	75.0	8061.39	21612	255.9331 ng/ml
Lorazepam	5.734	112933	3071.25	53.3	1339.04	40565	217.6664 ng/ml
Methadone	5.626	1130644	41018.46	50.1	63455.40	166677	241.1041 ng/ml
Methamphetamine	3.168	1158718	38666.57	35.6	15398.92	189142	237.2363 ng/ml
Mitragynine	5.185	185298	1514.00	38.4	1715.05	166677	245.2365 ng/ml
Morphine	1.227	32933	1279.48	57.4	355.27	1830	238.1291 ng/ml
Norbuprenorphine	4.945	3380	14801.97	98.4	5368.68	6132	24.4143 ng/ml
Nordiazepam	5.888	233024	4681.88	59.0	16364.86	29347	244.6396 ng/ml
Norfentanyl	4.035	95114	163009.93	39.0	1278.15	131077	24.3350 ng/ml
o-desmethylvenlafaxine	4.013	254049	2812.72	281.2	55385.20	43372	237.9289 ng/ml
Promethazine	5.504	992731	74130.57	32.0	843.01	175871	250.8664 ng/ml
Sertraline	5.750	90307	359.63	99.2	812.98	15225	250.5202 ng/ml
Trazodone	5.131	932641	451071.89	71.4	100979.11	155185	230.4666 ng/ml
Venlafaxine	4.983	1386827	105354.79	31.7	459.07	266333	247.8840 ng/ml
Zolpidem	4.894	1243831	282906.18	29.1	1179209.19	213644	255.8593 ng/ml

AM #28 Multi-Drug Quant. Results



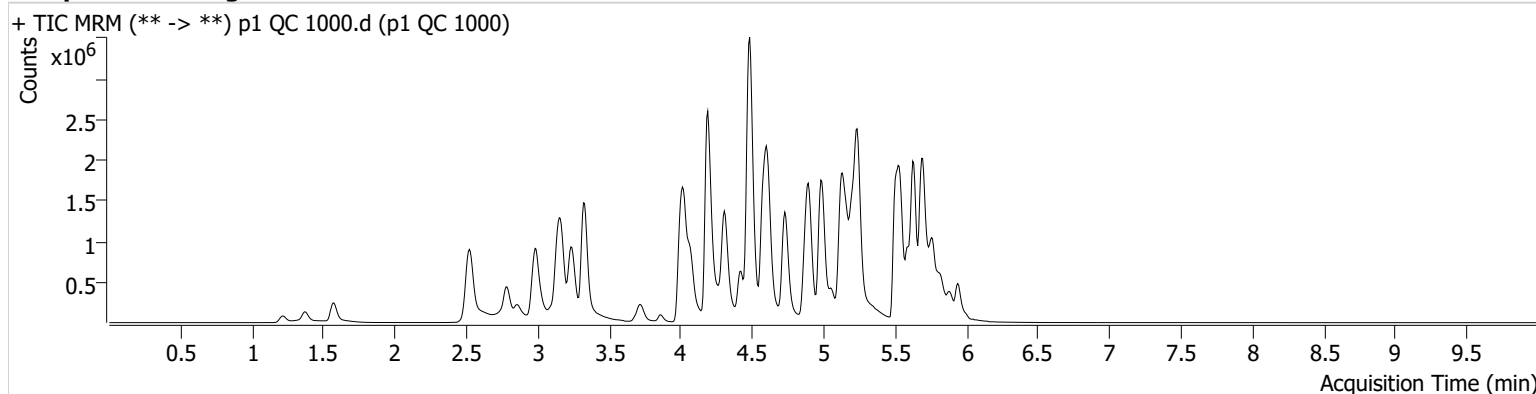
Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-E11
Injection Volume 2
Acq. Date-Time 12/18/2024 3:04:30 AM
Sample Info.

Data File p1 QC 1000.d
Sample p1 QC 1000
Operator Celena Shrum
Comment

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Sample Chromatogram



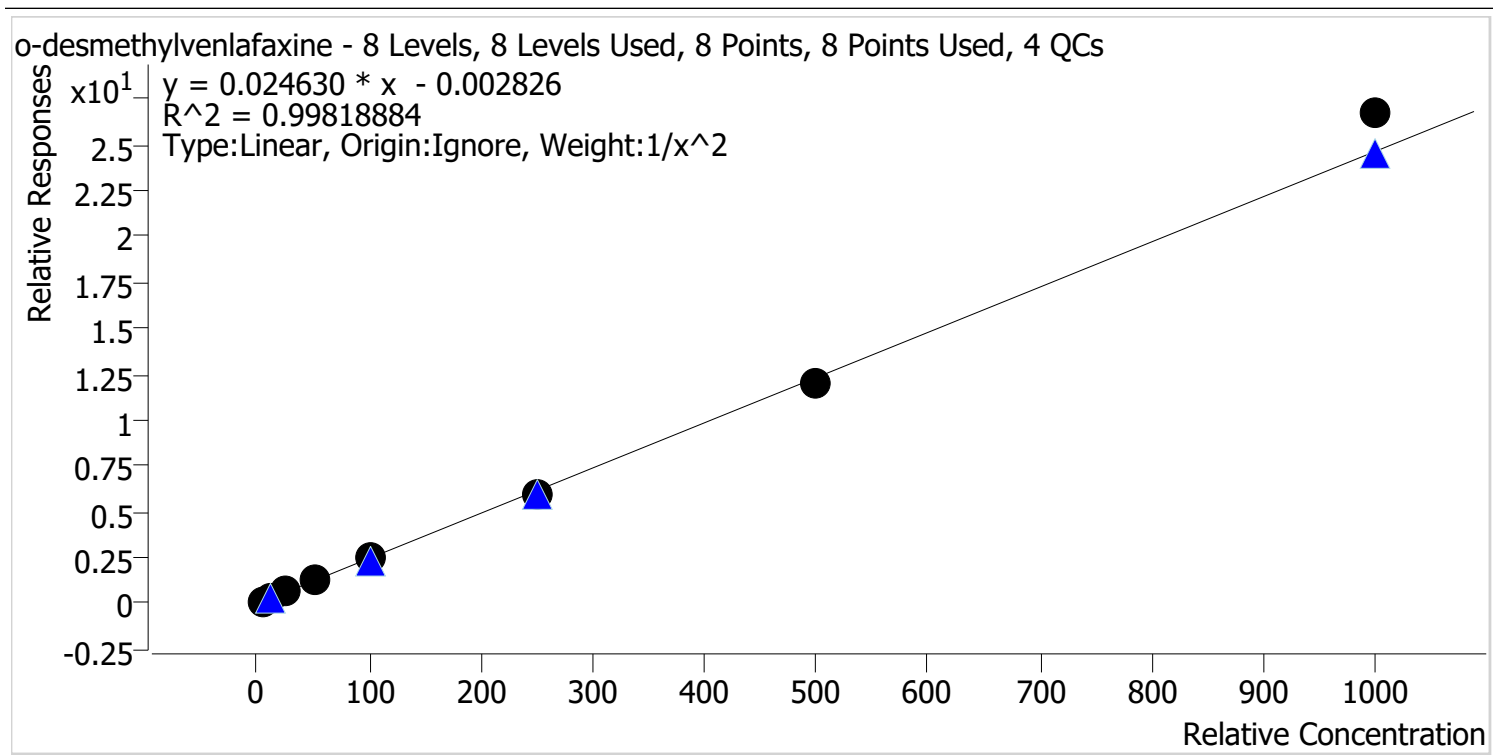
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	777522	129.22	109.0	78.60	29886	985.8651 ng/ml
Amphetamine	2.992	1809043	253503.08	46.4	43982.64	58272	383.3803 ng/ml
Benzoylcegonine	3.862	98557	6140.77	38.2	444.08	3436	979.0072 ng/ml
Citalopram	5.167	1448238	11056.54	38.0	77693.50	66560	969.3101 ng/ml
Cocaine	4.210	925215	625898.20	57.1	44036.15	89514	984.9380 ng/ml
Diphenhydramine	5.245	4303690	282611.99	33.7	772.56	237629	978.4670 ng/ml
Doxylamine	4.484	5734485	9612.93	96.4	548689.95	257436	889.6570 ng/ml
EDDP	5.210	1546080	51637.16	42.3	23916.50	72418	1003.7131 ng/ml
Fentanyl	5.057	307528	186257.15	68.9	∞	163440	96.2439 ng/ml
Hydromorphone	1.575	536678	2193102.67	76.0	729.13	16928	989.1318 ng/ml
Lorazepam	5.734	145334	12527.06	55.0	1995.70	11502	992.3114 ng/ml
Methadone	5.633	3277939	101811.02	50.3	173136.59	123636	942.6495 ng/ml
Methamphetamine	3.161	2739084	19498.85	35.6	46126.15	175494	619.5916 ng/ml
Mitragynine	5.185	470955	384023.44	40.4	100245.92	123636	841.3038 ng/ml
Morphine	1.220	91354	1248.07	55.5	1036.16	1382	874.1455 ng/ml
Norbuprenorphine	4.945	11872	44797.14	86.8	17541.51	5196	101.4637 ng/ml
Nordiazepam	5.888	384566	1897.66	60.2	20334.81	12907	919.2862 ng/ml
Norfentanyl	4.035	143516	105323.46	39.6	6720.74	41146	116.5686 ng/ml
o-desmethylvenlafaxine	4.020	444531	67.67	272.2	179874.64	18196	991.9757 ng/ml
Promethazine	5.504	3188934	232956.81	32.3	49284.18	149359	949.2056 ng/ml
Sertraline	5.750	269869	357.63	99.9	285.35	11457	994.8556 ng/ml
Trazodone	5.131	2657220	782774.41	74.9	3718797.52	161868	631.4185 ng/ml
Venlafaxine	4.983	4059586	636660.79	31.6	36754.79	192936	1002.0618 ng/ml
Zolpidem	4.894	3296294	232502.50	28.9	3015.17	161975	895.3794 ng/ml

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte o-desmethylvenlafaxine **Internal Standard** o-desmethylvenlafaxine-D6



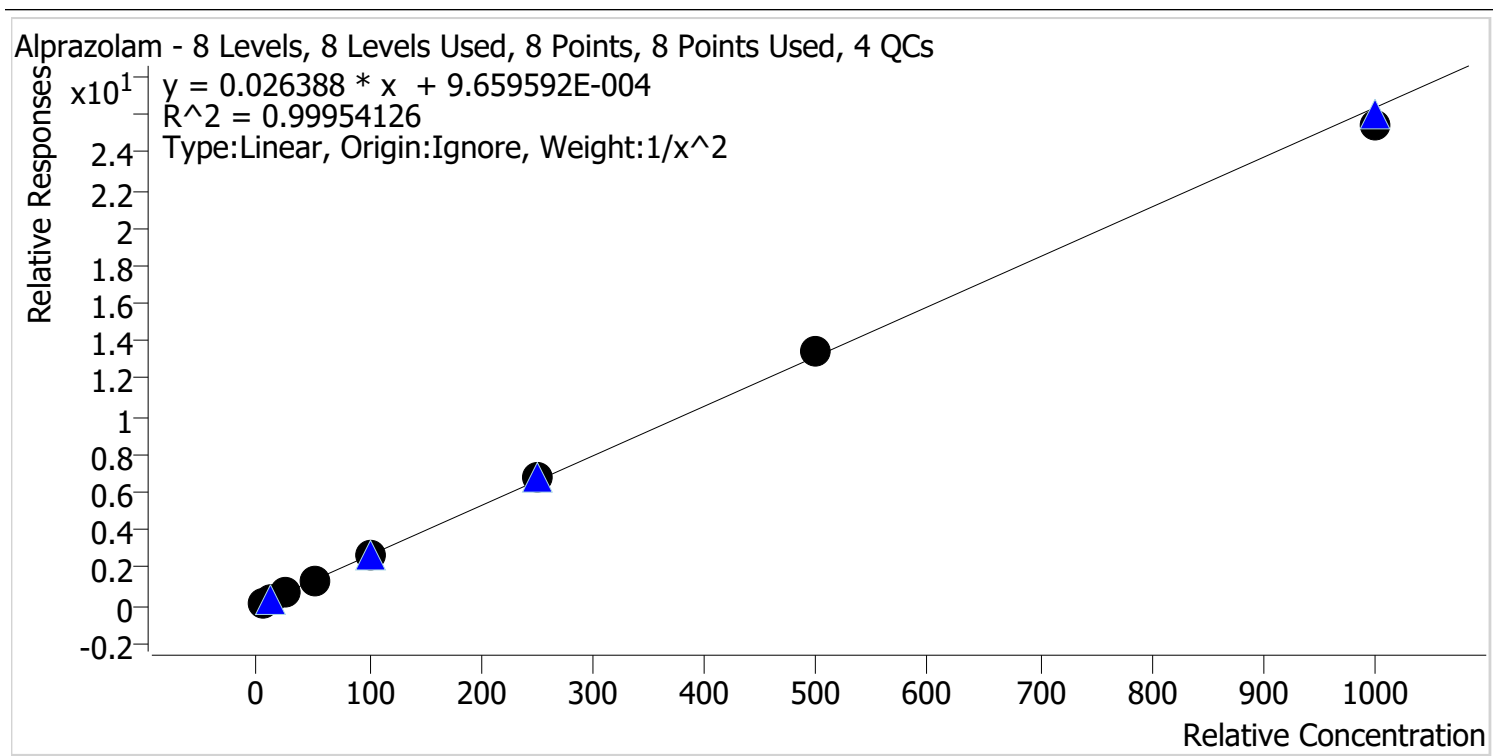
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2-10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	241.6	96.7
p1 Cal 7-500ng	7	✓	500.0	489.0	97.8
p1 Cal 8-1000ng	8	✓	1000.0	1084.4	108.4

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2-10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	254.1	101.6
p1 Cal 7-500ng	7	✓	500.0	508.1	101.6
p1 Cal 8-1000ng	8	✓	1000.0	966.4	96.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin

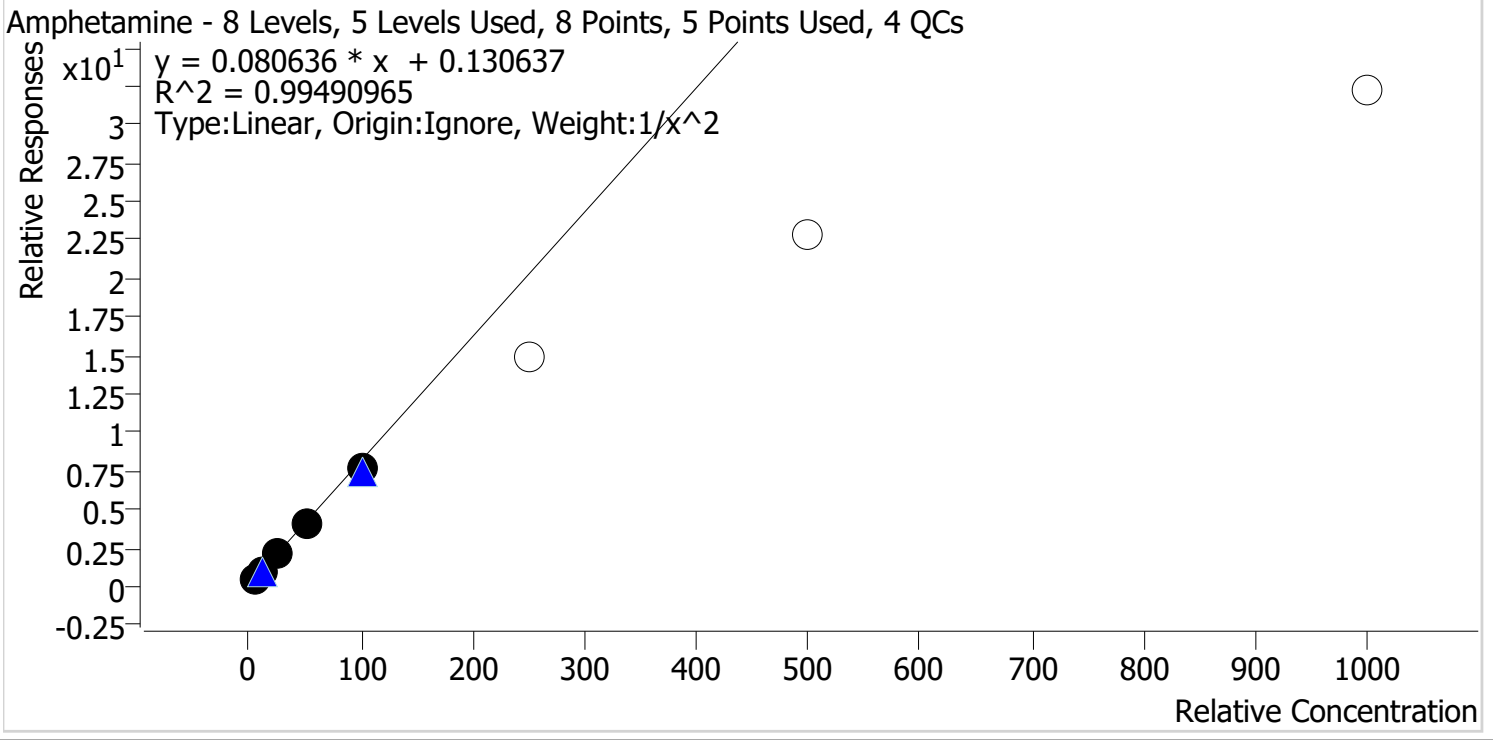
12/19/2024 6:37 AM

ISP\datastor

Amphetamine

Internal Standard

Amphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.7
p1 Cal 2-10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.1
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	92.4	92.4
p1 Cal 6-250ng	6	✗	250.0	182.8	73.1
p1 Cal 7-500ng	7	✗	500.0	282.8	56.6
p1 Cal 8-1000ng	8	✗	1000.0	397.7	39.8

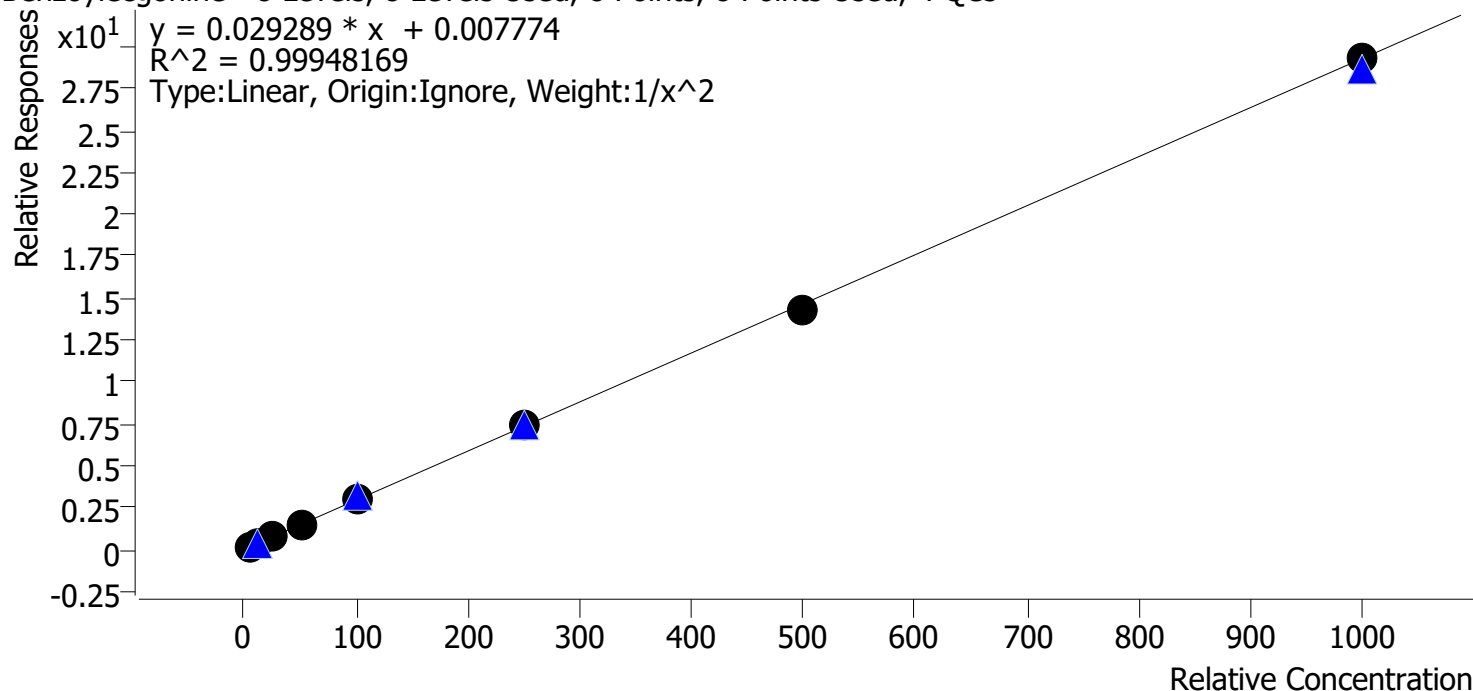
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



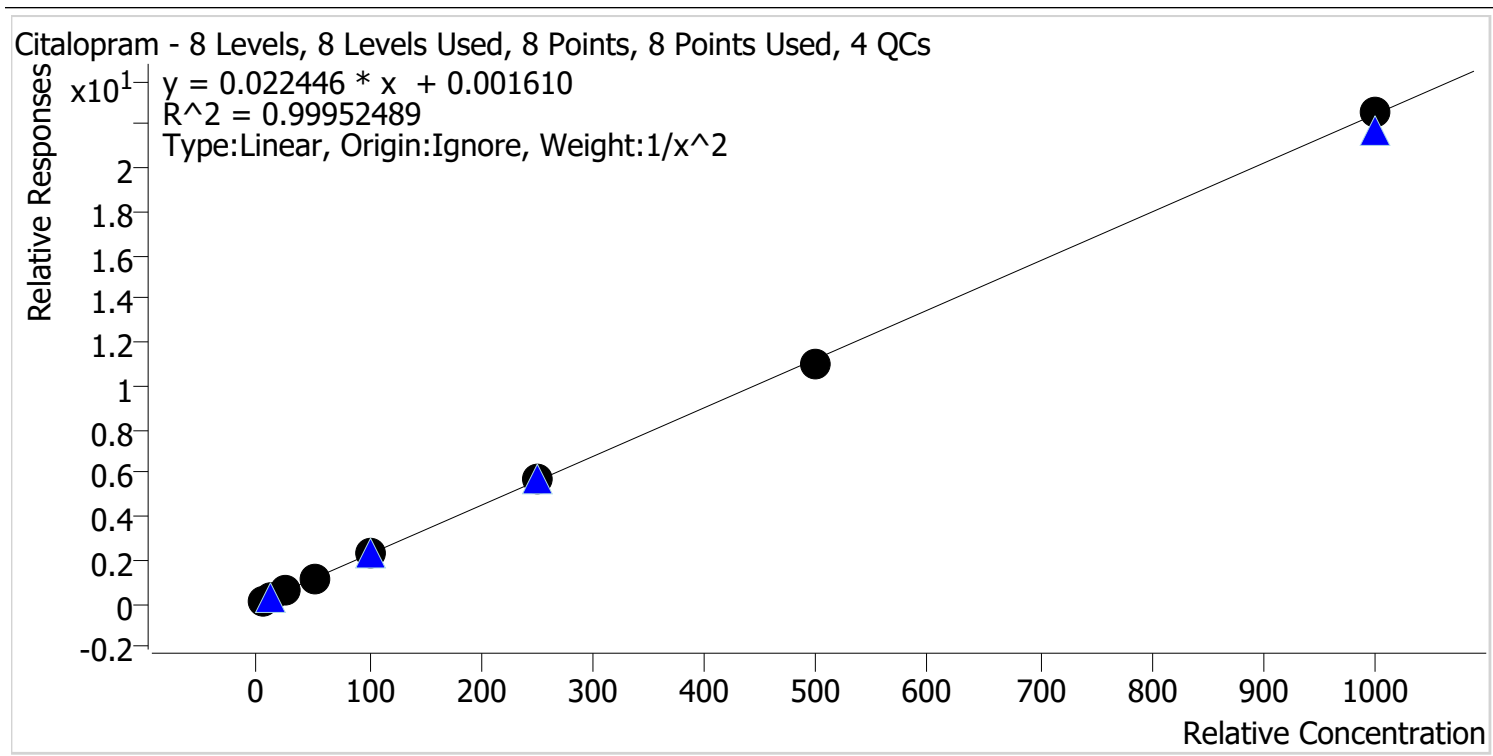
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2-10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	485.5	97.1
p1 Cal 8-1000ng	8	✓	1000.0	999.9	100.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6



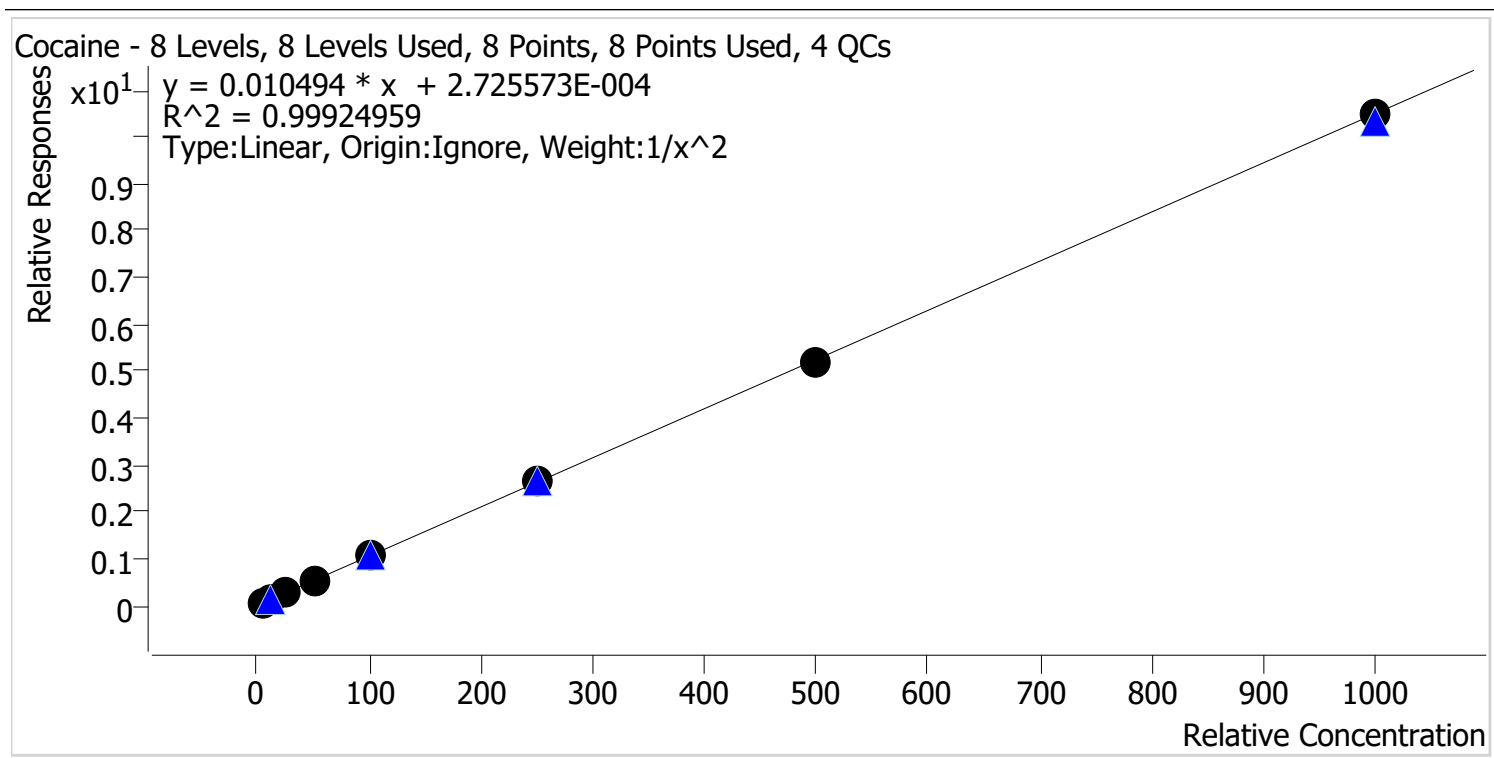
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2-10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	250.6	100.3
p1 Cal 7-500ng	7	✓	500.0	490.2	98.0
p1 Cal 8-1000ng	8	✓	1000.0	1003.6	100.4

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-D3



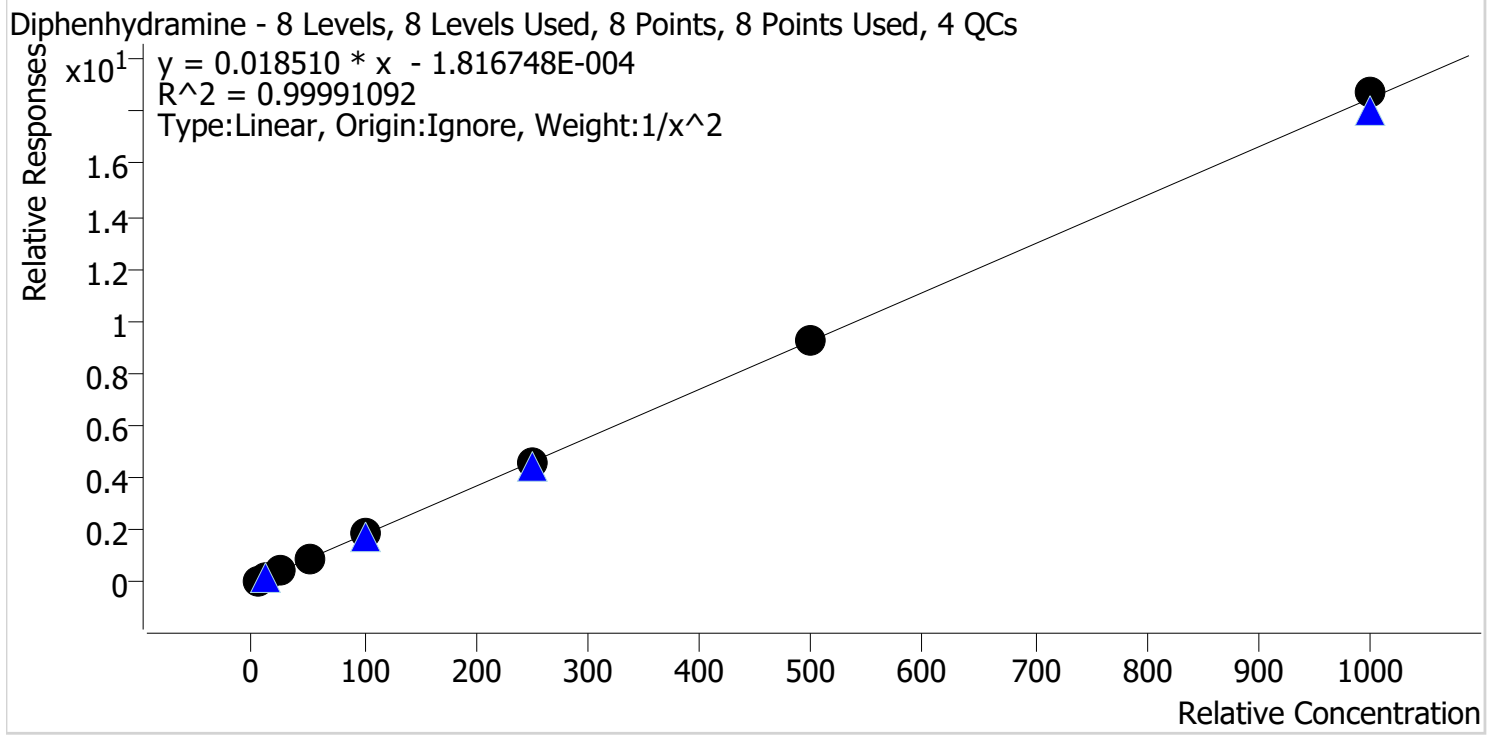
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.3
p1 Cal 2-10ng	2	✓	10.0	9.5	95.1
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	253.9	101.5
p1 Cal 7-500ng	7	✓	500.0	497.4	99.5
p1 Cal 8-1000ng	8	✓	1000.0	998.2	99.8

29



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



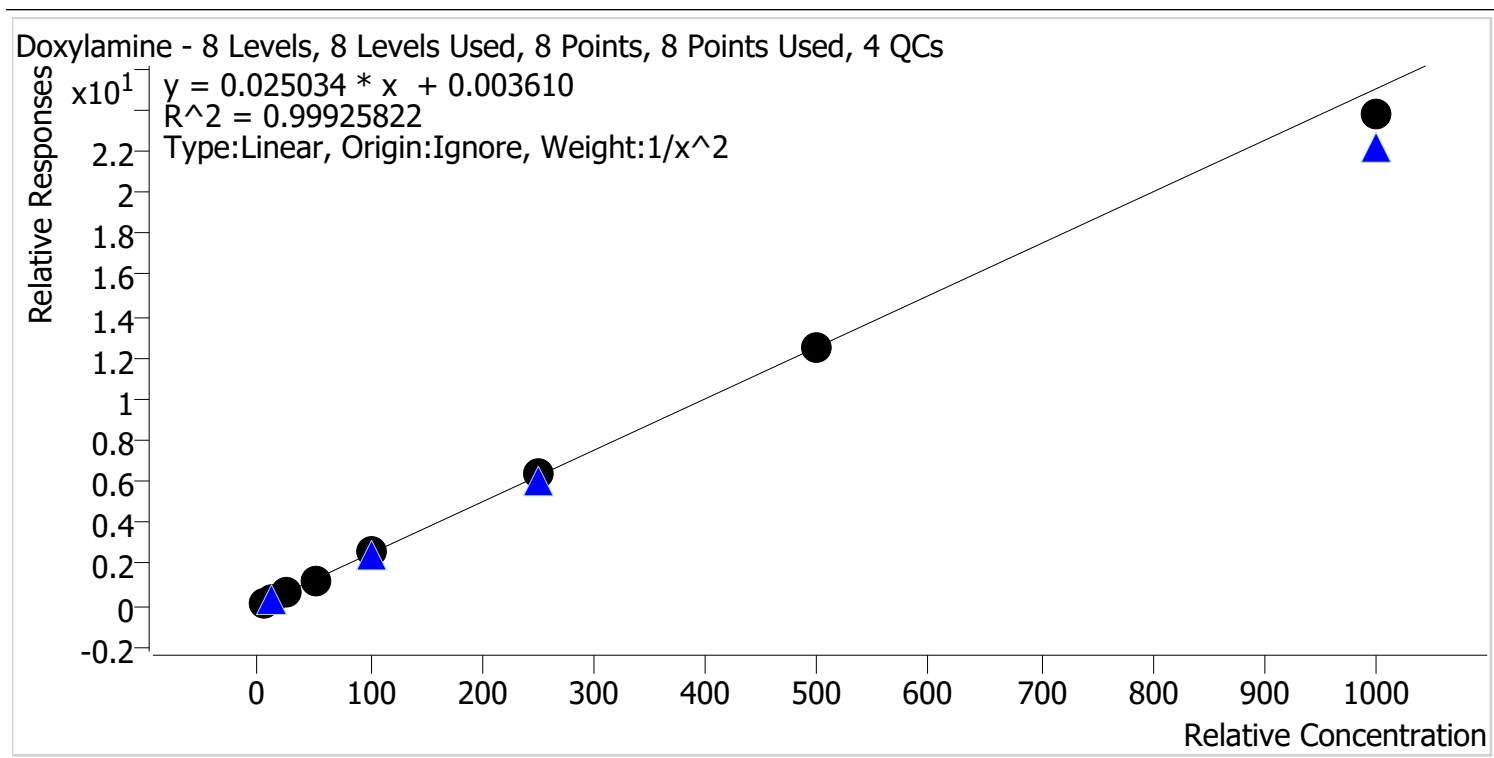
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2-10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	497.2	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1012.2	101.2

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2-10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	256.0	102.4
p1 Cal 7-500ng	7	✓	500.0	499.0	99.8
p1 Cal 8-1000ng	8	✓	1000.0	949.9	95.0

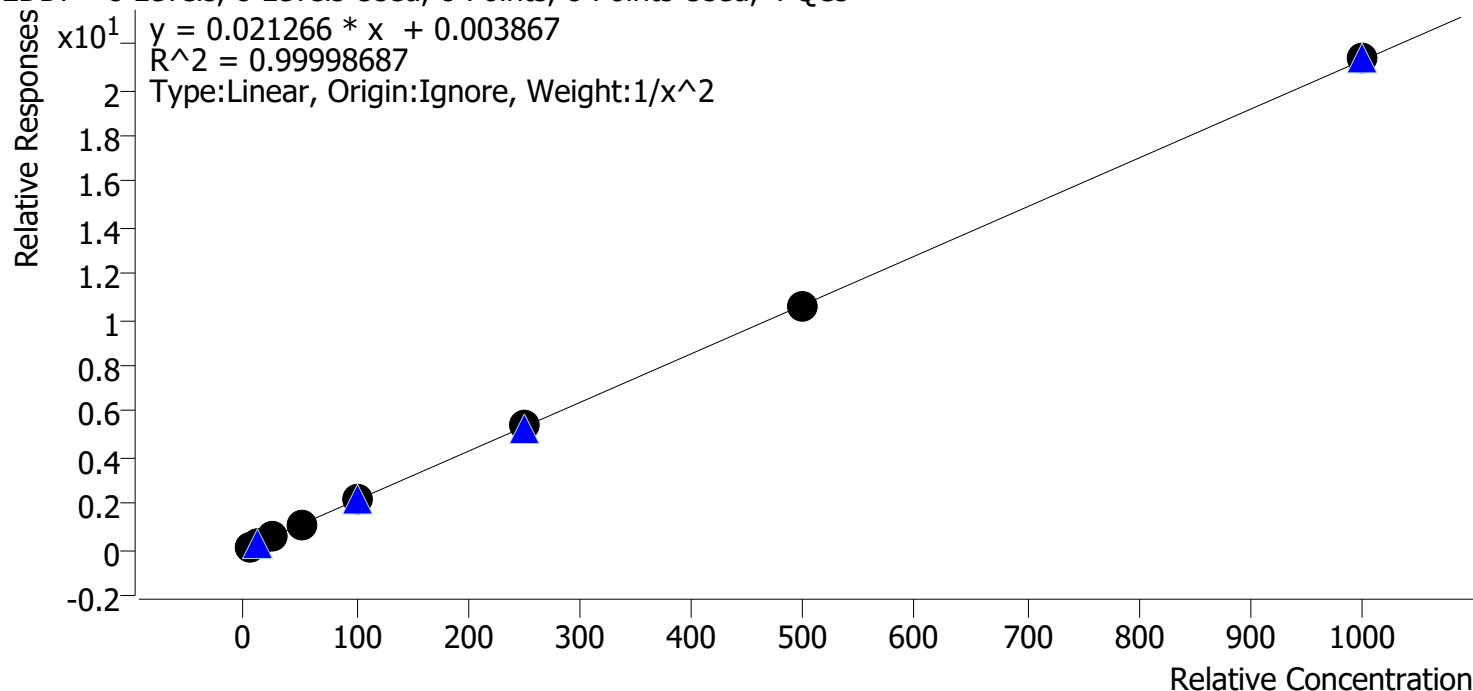
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
 Last Cal. Update 12/19/2024 6:37 AM
 Analyst Name ISP\datastor
 Analyte EDDP Internal Standard EDDP-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2-10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	498.9	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3

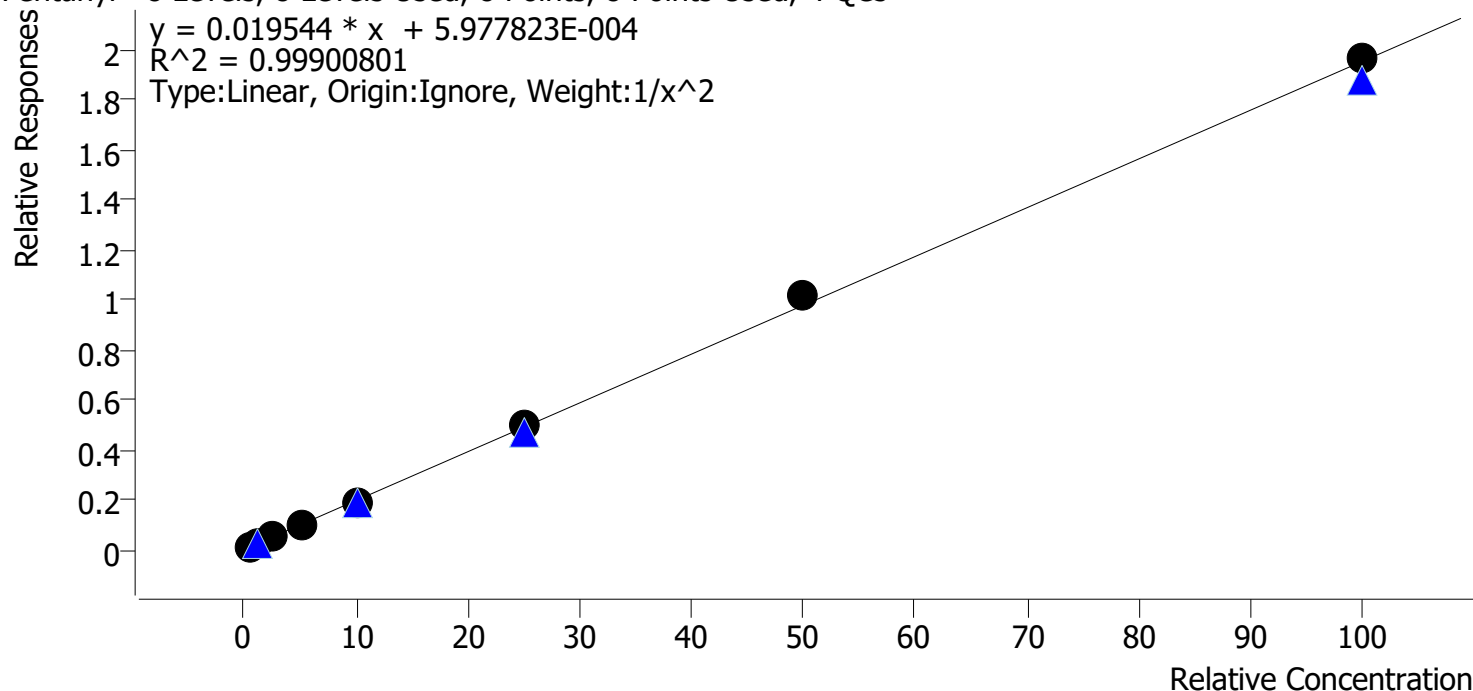
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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



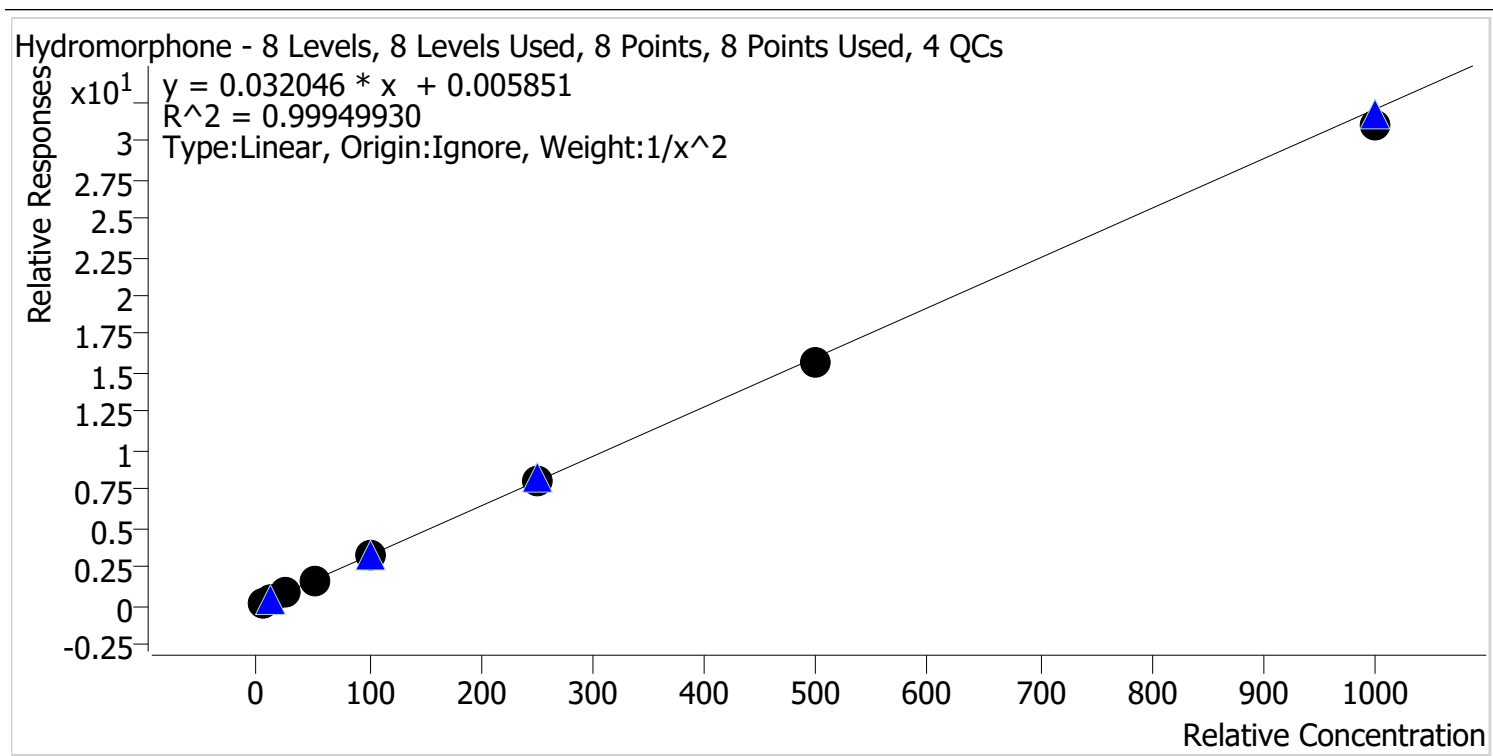
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.6
p1 Cal 2-10ng	2	✓	1.0	1.0	96.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.3
p1 Cal 4-50ng	4	✓	5.0	5.0	100.6
p1 Cal 5-100ng	5	✓	10.0	9.9	98.7
p1 Cal 6-250ng	6	✓	25.0	25.3	101.2
p1 Cal 7-500ng	7	✓	50.0	51.9	103.7
p1 Cal 8-1000ng	8	✓	100.0	100.6	100.6

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2-10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	253.3	101.3
p1 Cal 7-500ng	7	✓	500.0	490.5	98.1
p1 Cal 8-1000ng	8	✓	1000.0	965.0	96.5

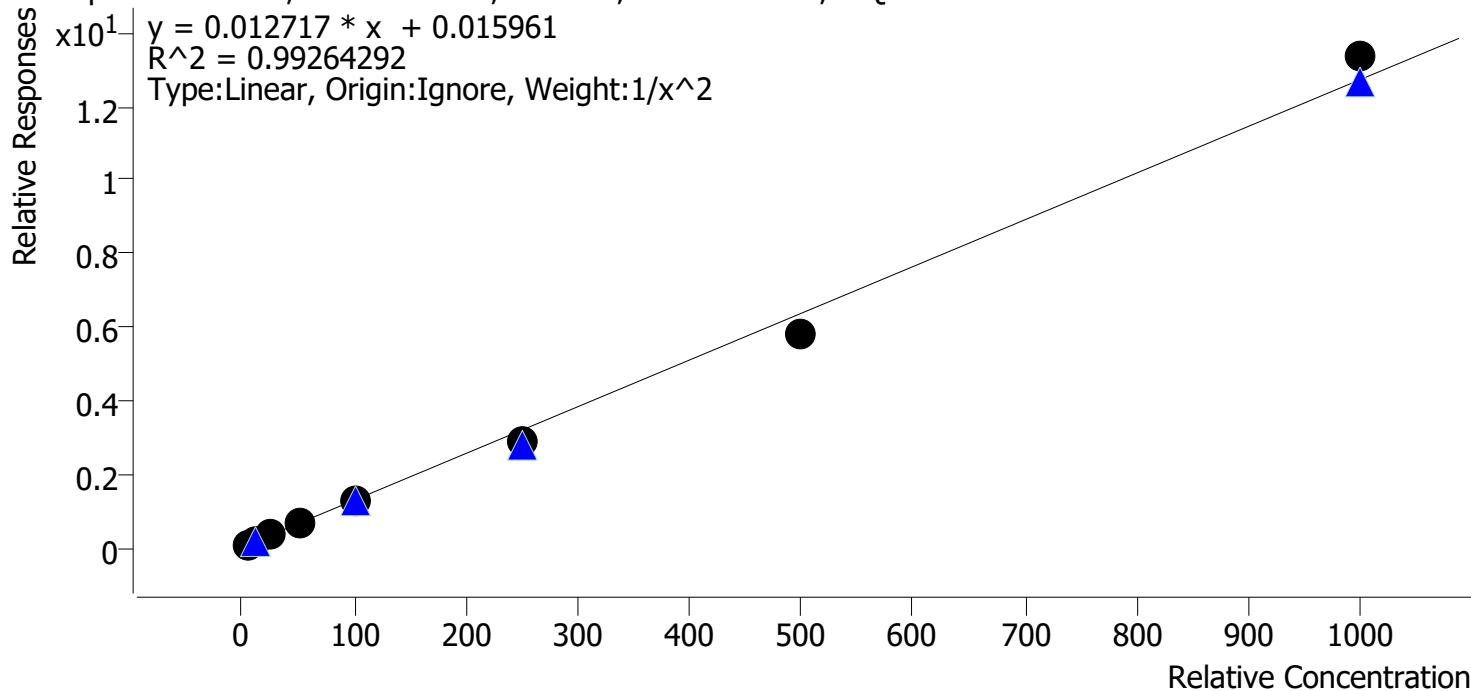
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Oxazepam-D5

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



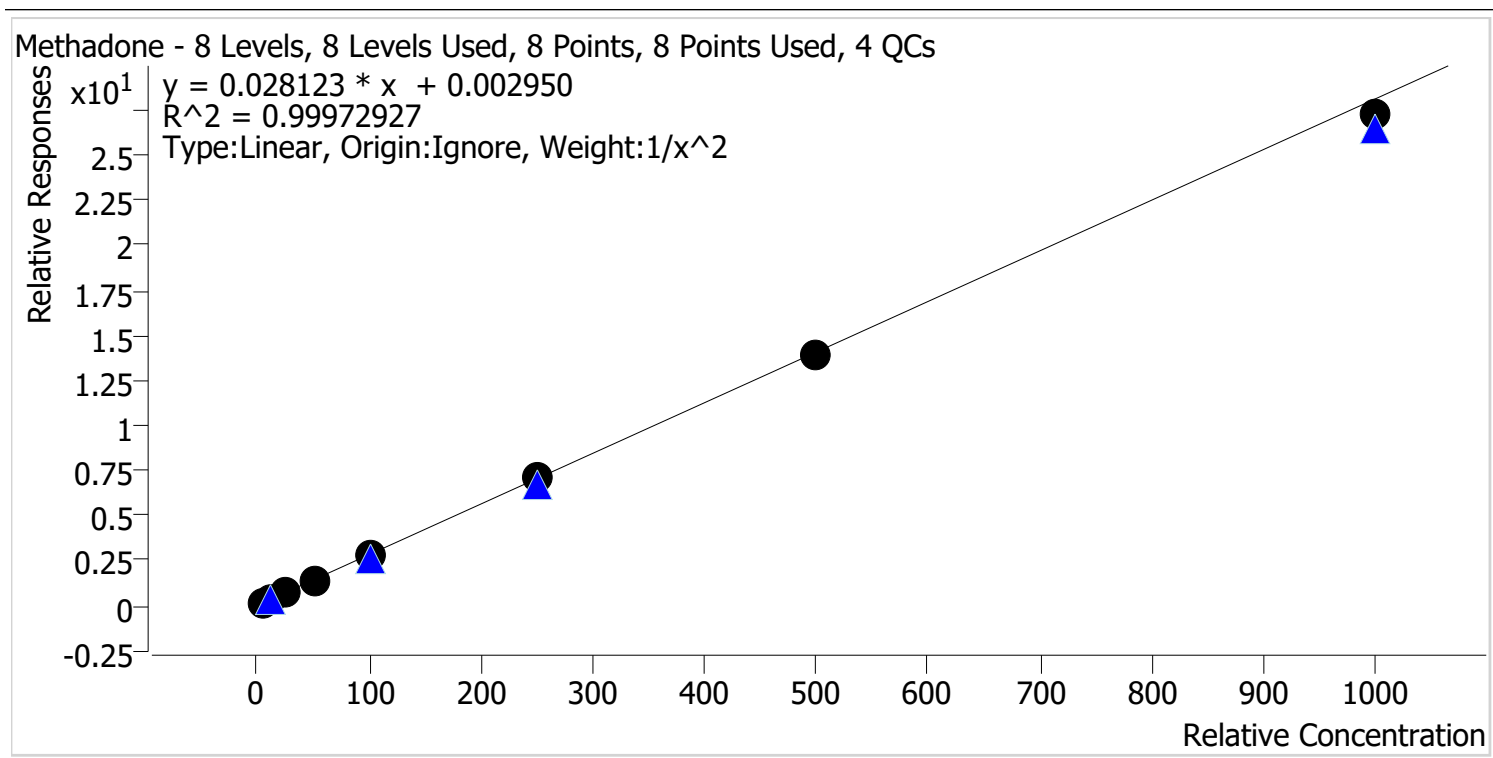
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2-10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.0
p1 Cal 4-50ng	4	✓	50.0	53.4	106.9
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	224.2	89.7
p1 Cal 7-500ng	7	✓	500.0	456.0	91.2
p1 Cal 8-1000ng	8	✓	1000.0	1049.3	104.9

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2-10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	969.1	96.9



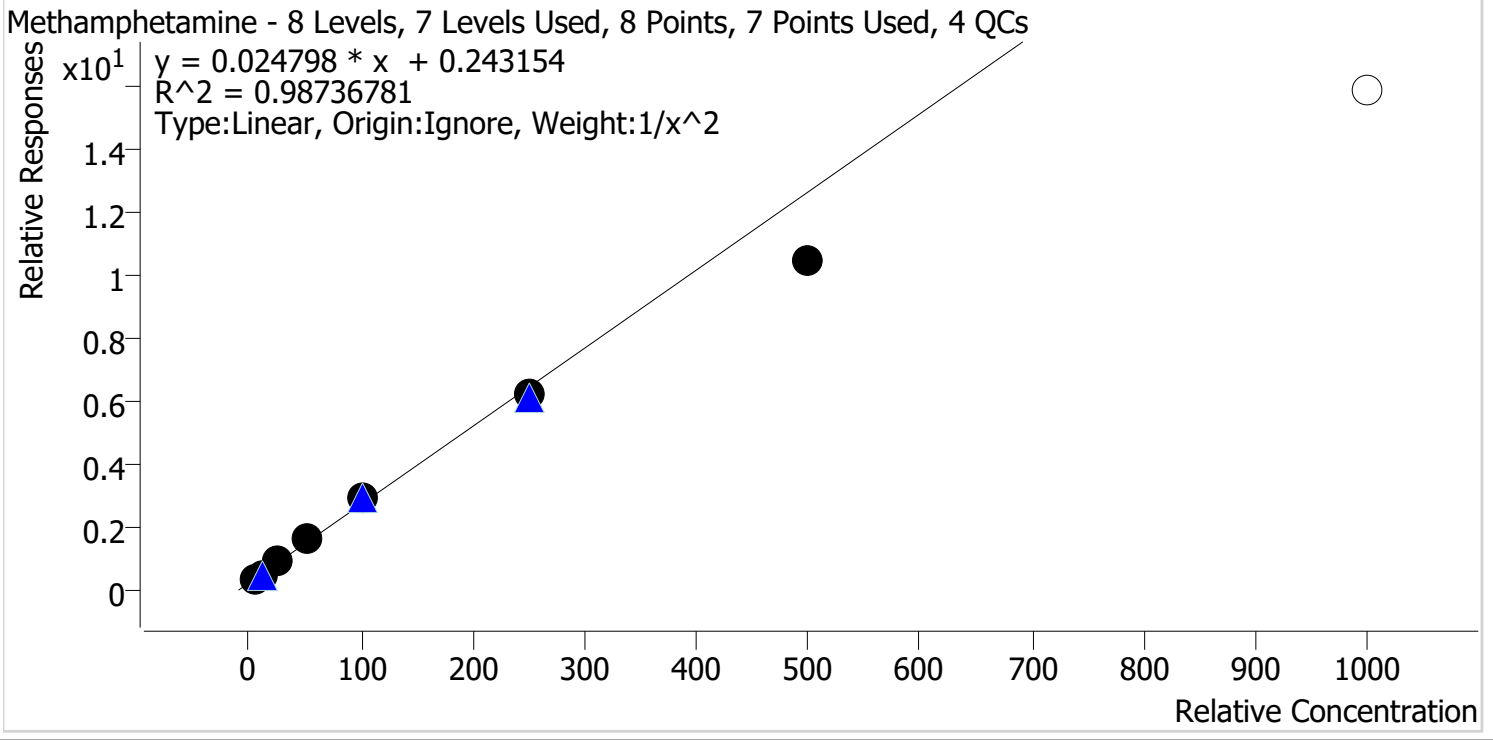
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch resultsD:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin

Last Cal. Update12/19/2024 6:37 AM

Analyst NameISP\datastor

AnalyteMethamphetamineInternal StandardMethamphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2-10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.9
p1 Cal 4-50ng	4	✓	50.0	54.4	108.9
p1 Cal 5-100ng	5	✓	100.0	106.8	106.8
p1 Cal 6-250ng	6	✓	250.0	240.0	96.0
p1 Cal 7-500ng	7	✓	500.0	410.4	82.1
p1 Cal 8-1000ng	8	✗	1000.0	629.5	63.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin

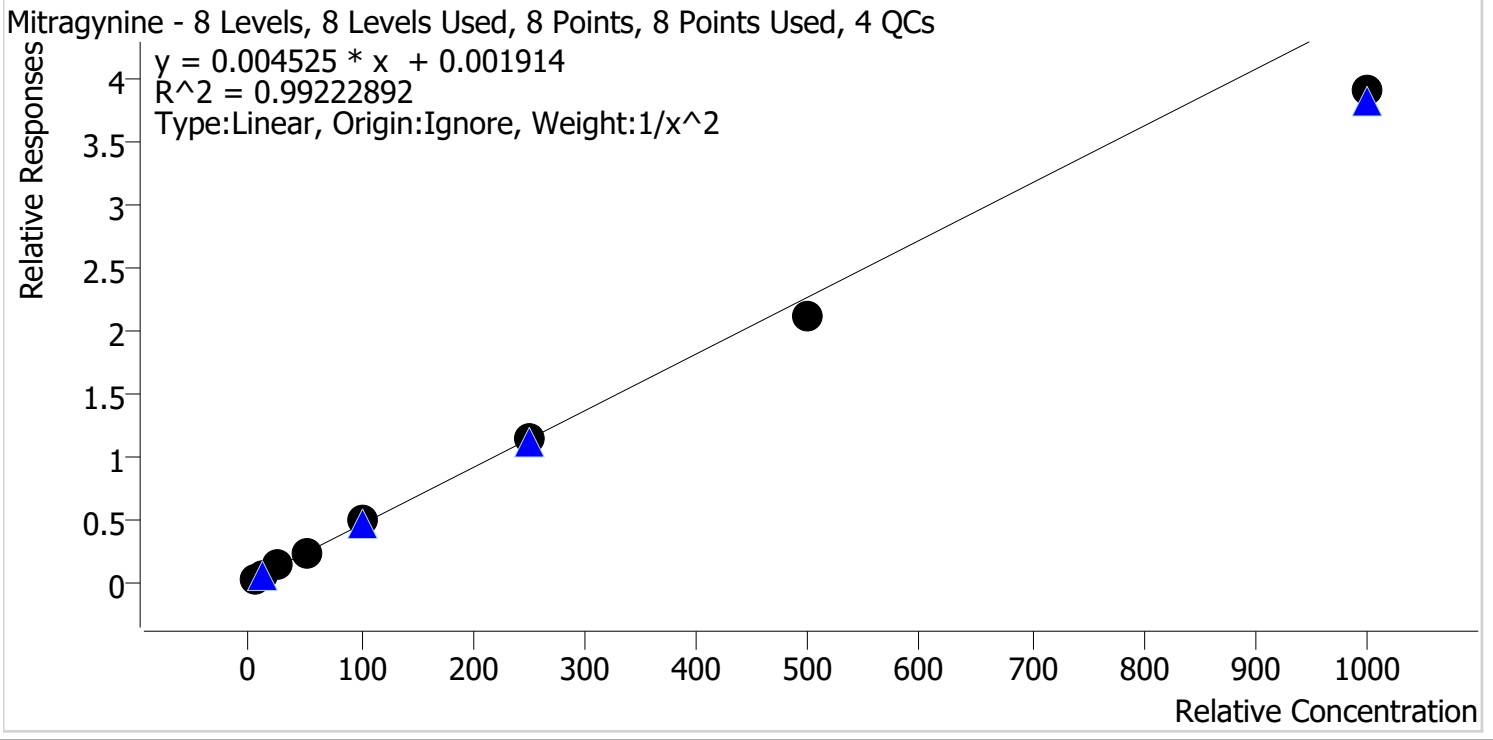
12/19/2024 6:37 AM

ISP\datastor

Mitragynine

Internal Standard

Methadone-D9



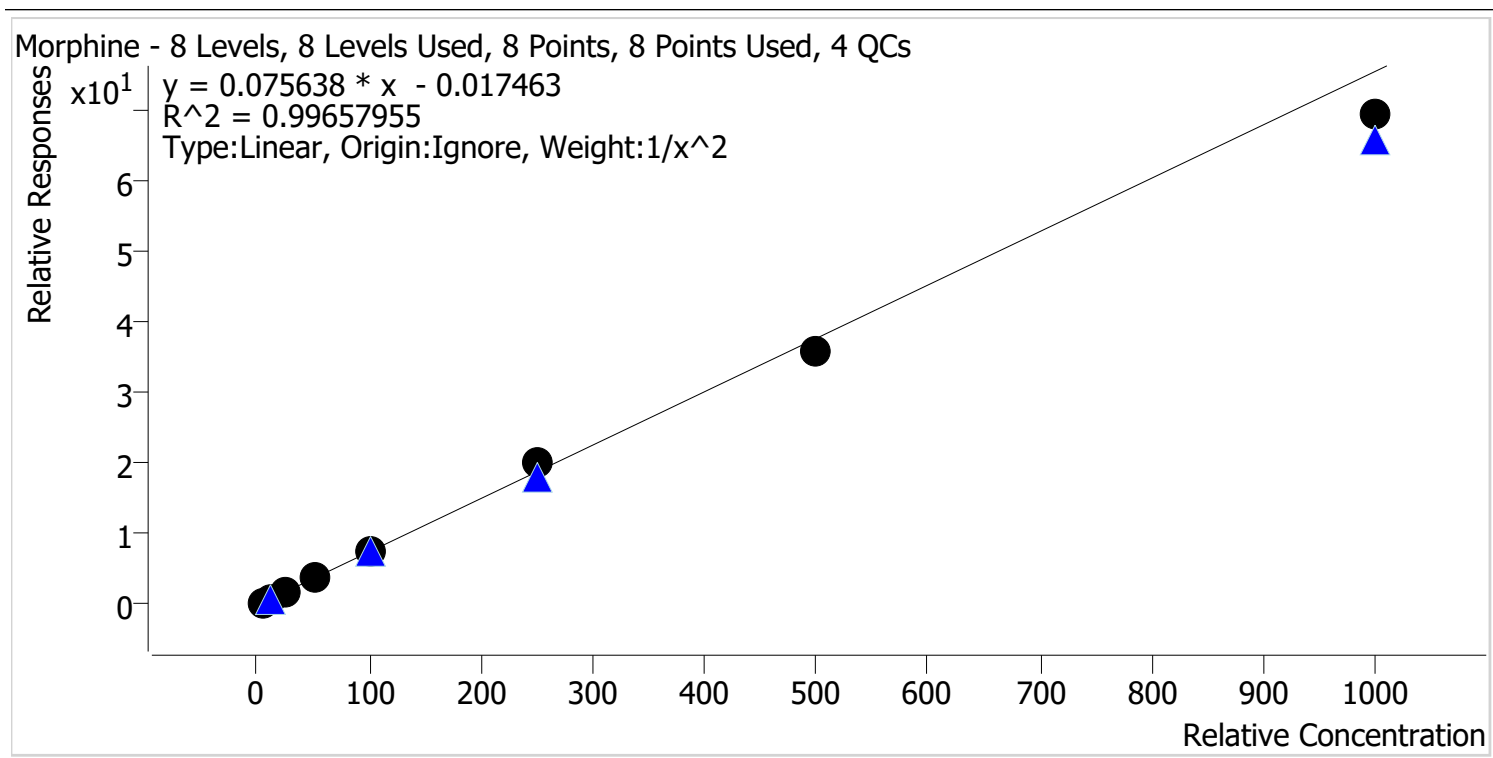
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2-10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.1
p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
p1 Cal 5-100ng	5	✓	100.0	108.1	108.1
p1 Cal 6-250ng	6	✓	250.0	253.9	101.6
p1 Cal 7-500ng	7	✓	500.0	463.6	92.7
p1 Cal 8-1000ng	8	✓	1000.0	862.5	86.3

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2-10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	264.7	105.9
p1 Cal 7-500ng	7	✓	500.0	474.0	94.8
p1 Cal 8-1000ng	8	✓	1000.0	919.1	91.9

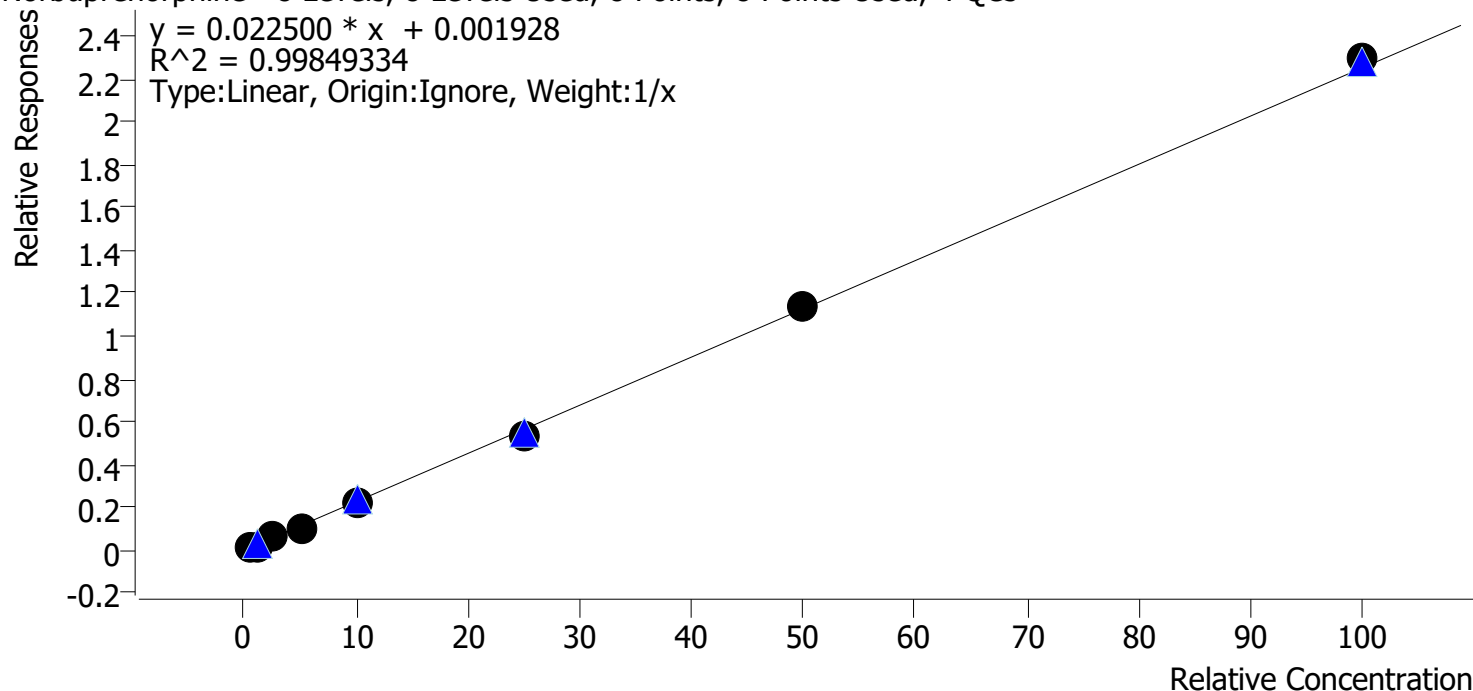
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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



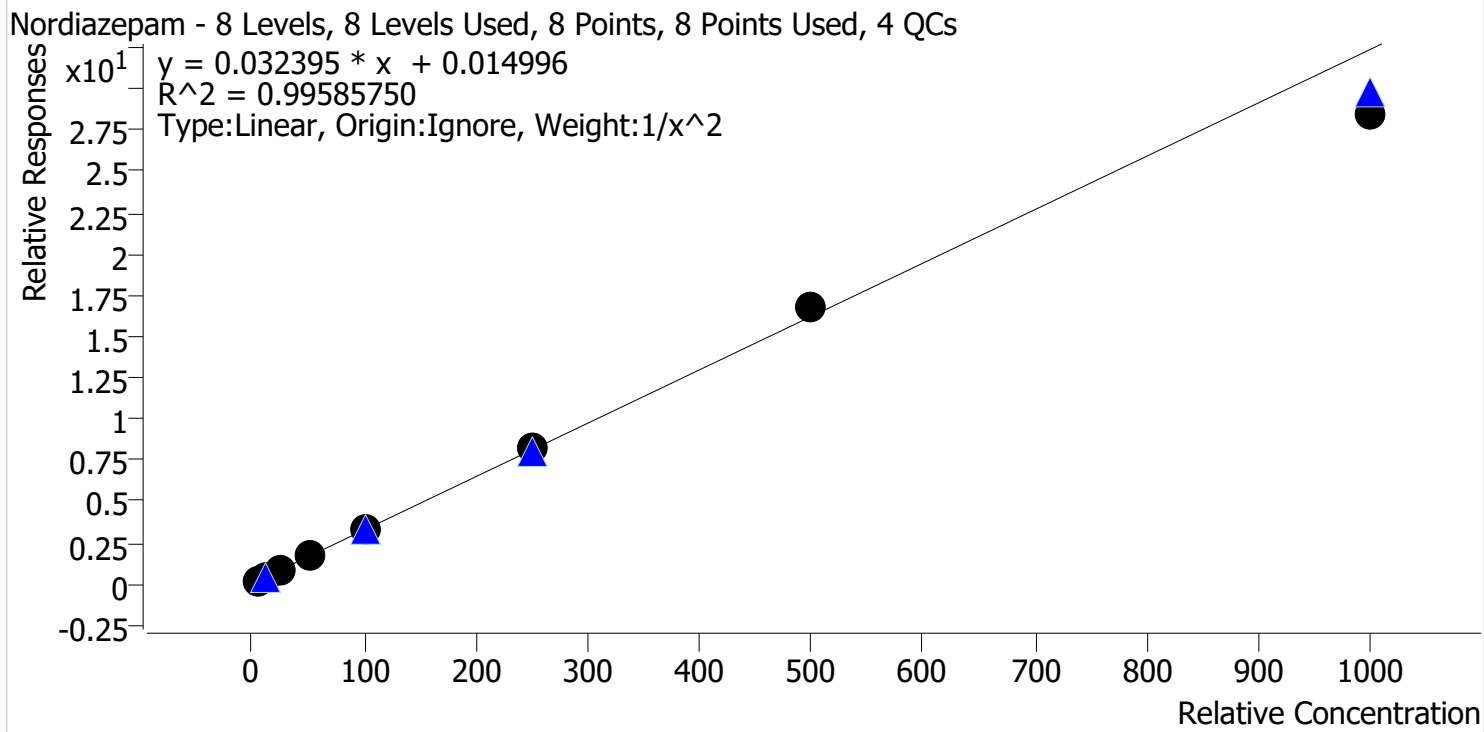
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.6	128.4
p1 Cal 2-10ng	2	✓	1.0	0.9	86.6
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.3
p1 Cal 4-50ng	4	✓	5.0	4.5	90.3
p1 Cal 5-100ng	5	✓	10.0	9.9	98.7
p1 Cal 6-250ng	6	✓	25.0	23.3	93.1
p1 Cal 7-500ng	7	✓	50.0	50.4	100.8
p1 Cal 8-1000ng	8	✓	100.0	101.9	101.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Nordiazepam Internal Standard Nordiazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2-10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	516.8	103.4
p1 Cal 8-1000ng	8	✓	1000.0	875.6	87.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin

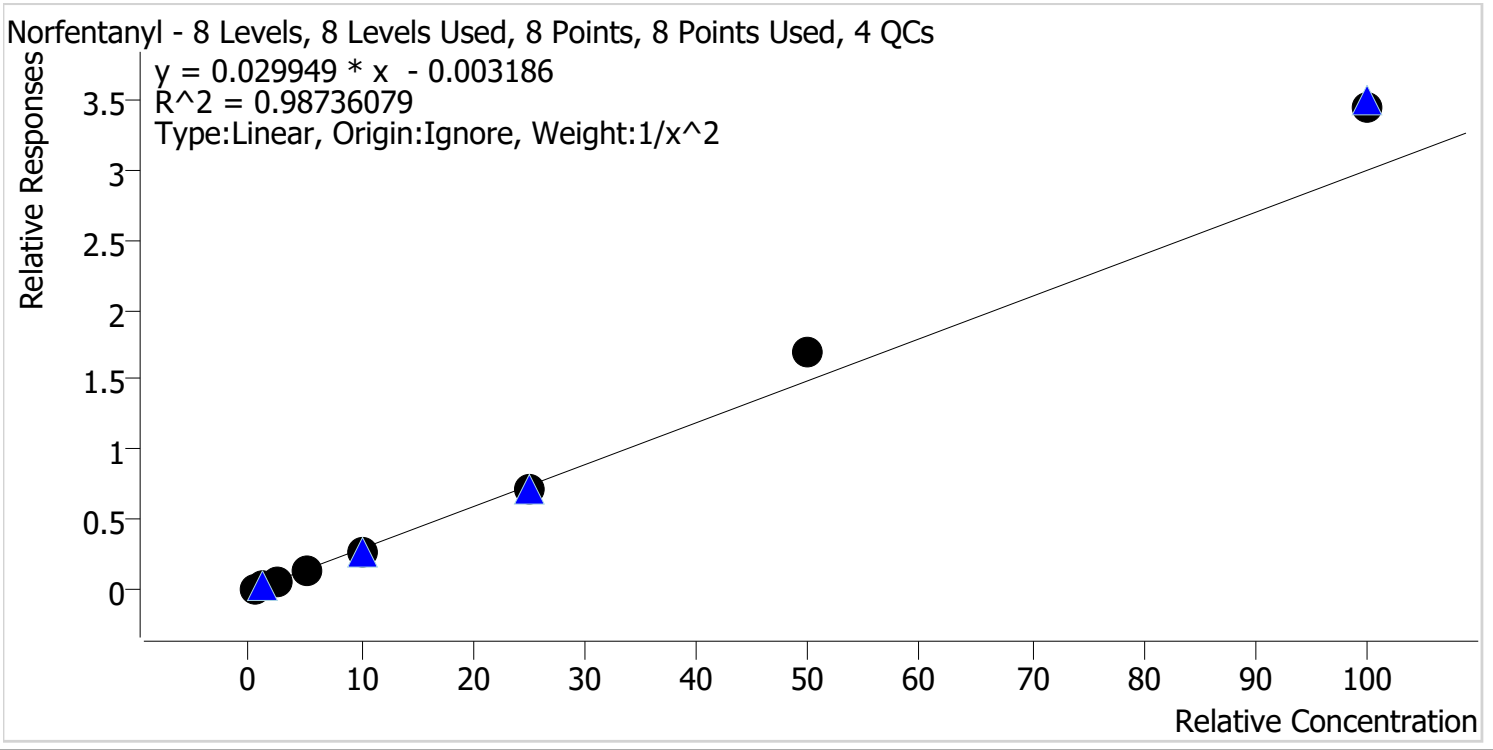
12/19/2024 6:37 AM

ISP\datastor

Norfentanyl

Internal Standard

Norfentanyl-D5



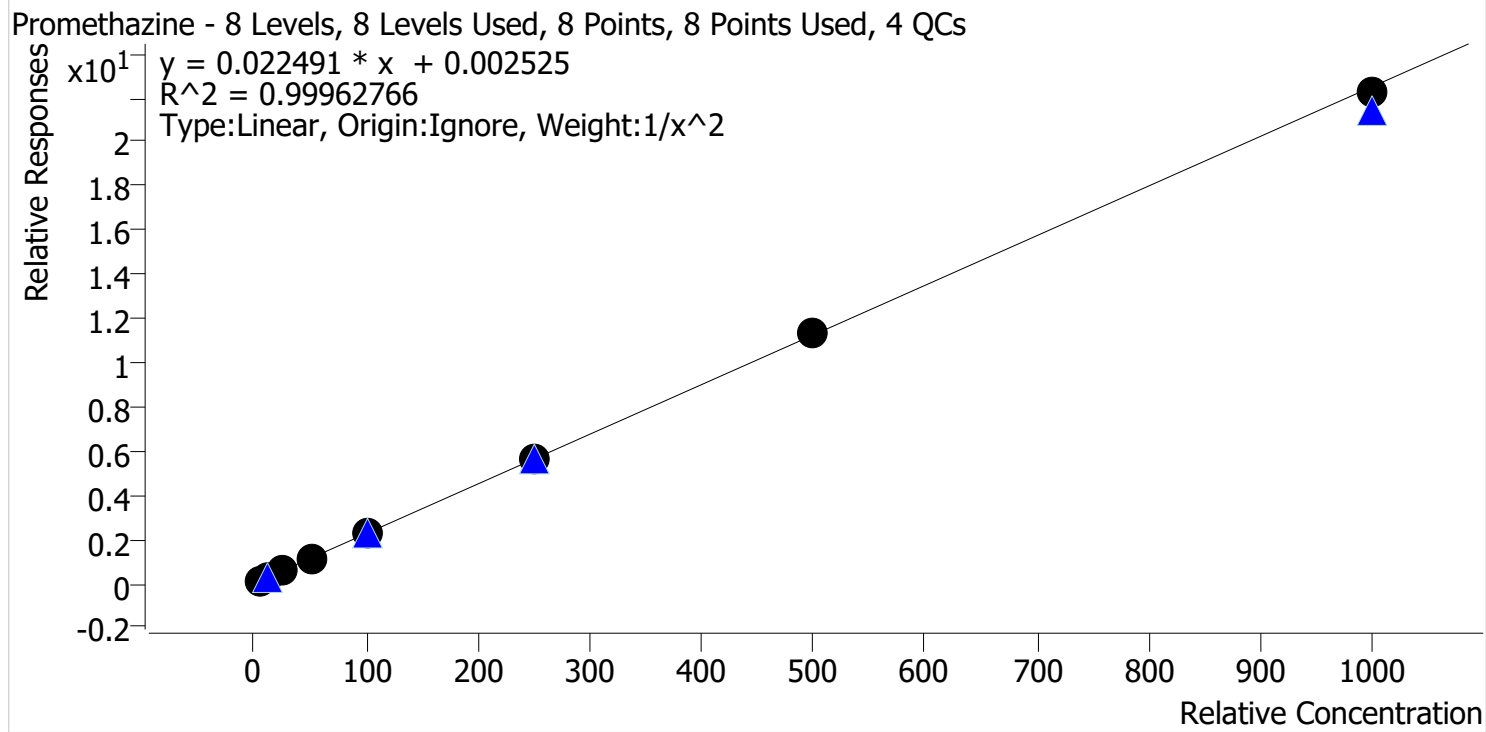
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.7
p1 Cal 2-10ng	2	✓	1.0	1.0	99.0
p1 Cal 3 -25ng	3	✓	2.5	2.3	90.2
p1 Cal 4-50ng	4	✓	5.0	4.5	90.3
p1 Cal 5-100ng	5	✓	10.0	9.1	91.2
p1 Cal 6-250ng	6	✓	25.0	24.4	97.7
p1 Cal 7-500ng	7	✓	50.0	56.6	113.2
p1 Cal 8-1000ng	8	✓	100.0	114.6	114.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2-10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	251.6	100.7
p1 Cal 7-500ng	7	✓	500.0	500.4	100.1
p1 Cal 8-1000ng	8	✓	1000.0	988.2	98.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin

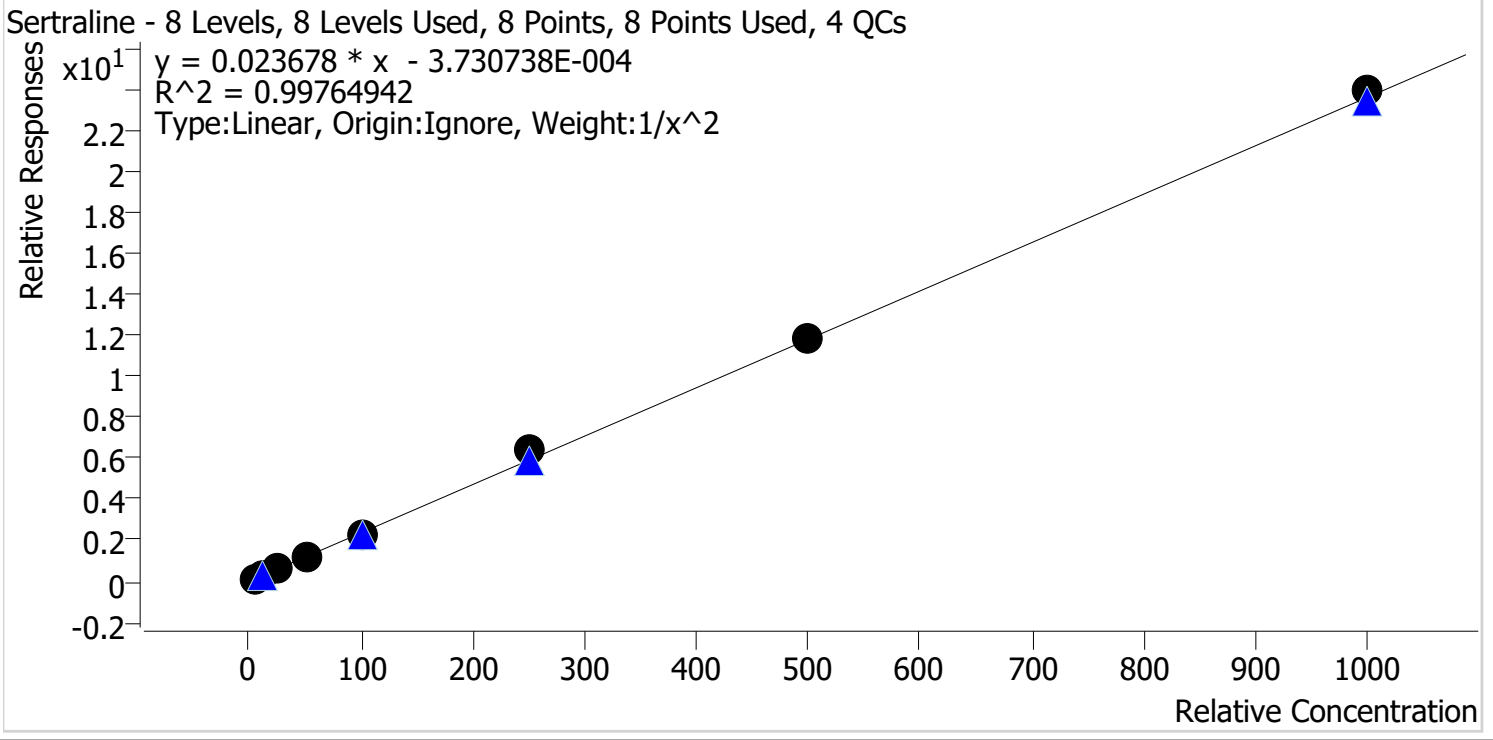
12/19/2024 6:37 AM

ISP\datastor

Sertraline

Internal Standard

Sertraline-D3



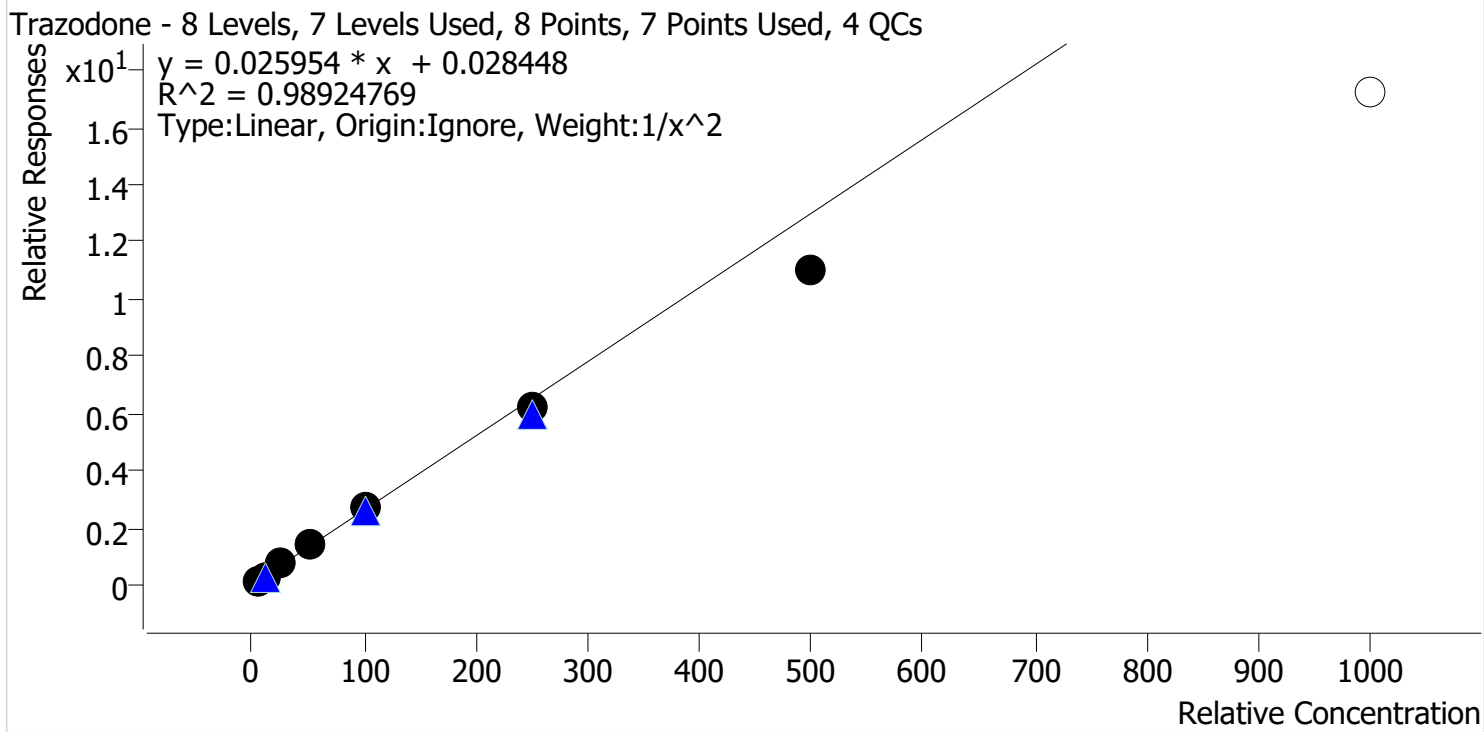
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
p1 Cal 2-10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.7
p1 Cal 4-50ng	4	✓	50.0	47.9	95.8
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	270.3	108.1
p1 Cal 7-500ng	7	✓	500.0	504.9	101.0
p1 Cal 8-1000ng	8	✓	1000.0	1014.2	101.4

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
 Last Cal. Update 12/19/2024 6:37 AM
 Analyst Name ISP\datastor
 Analyte Trazodone Internal Standard Trazodone-D6



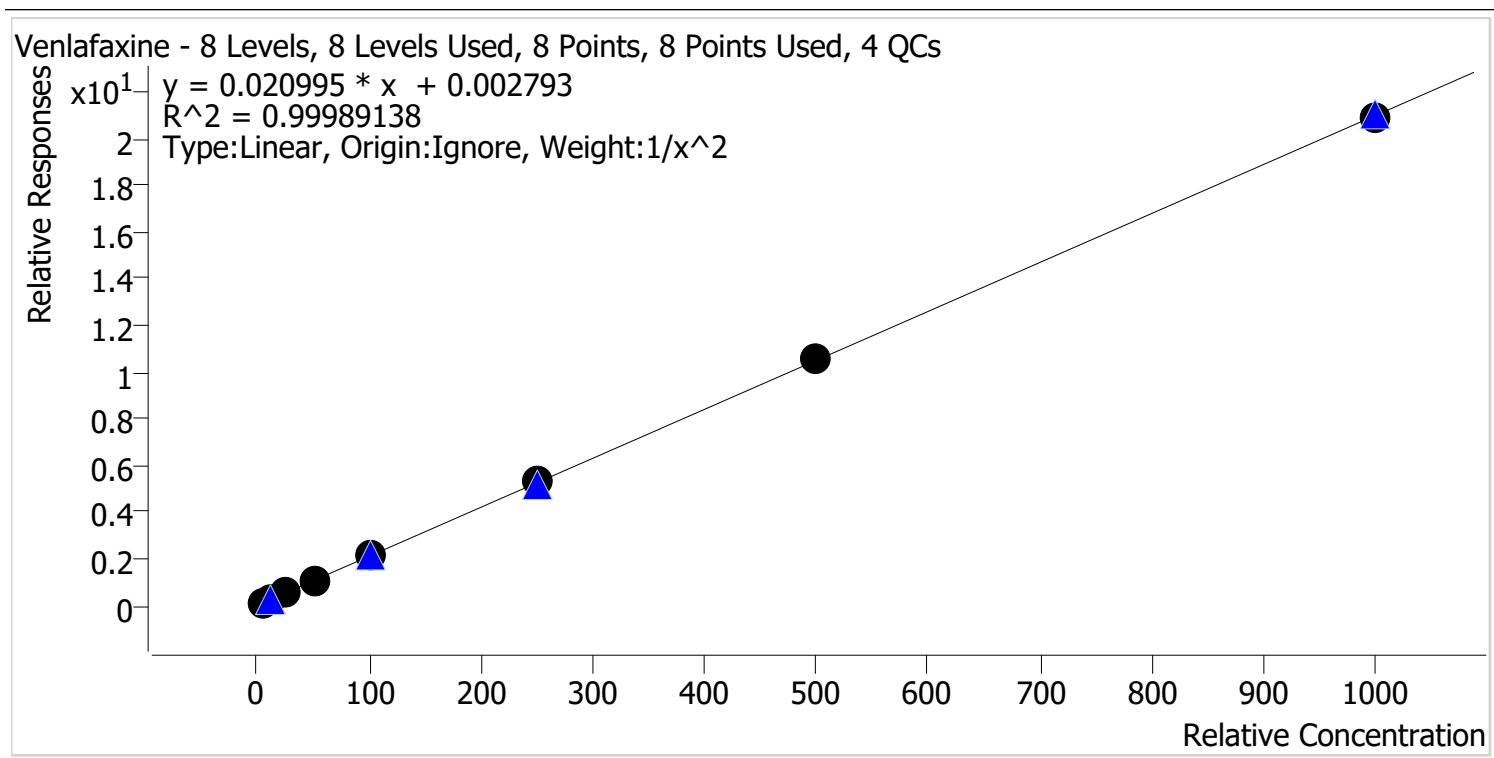
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.2
p1 Cal 2-10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.0
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	✓	250.0	236.6	94.6
p1 Cal 7-500ng	7	✓	500.0	421.8	84.4
p1 Cal 8-1000ng	8	✗	1000.0	662.6	66.3

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6



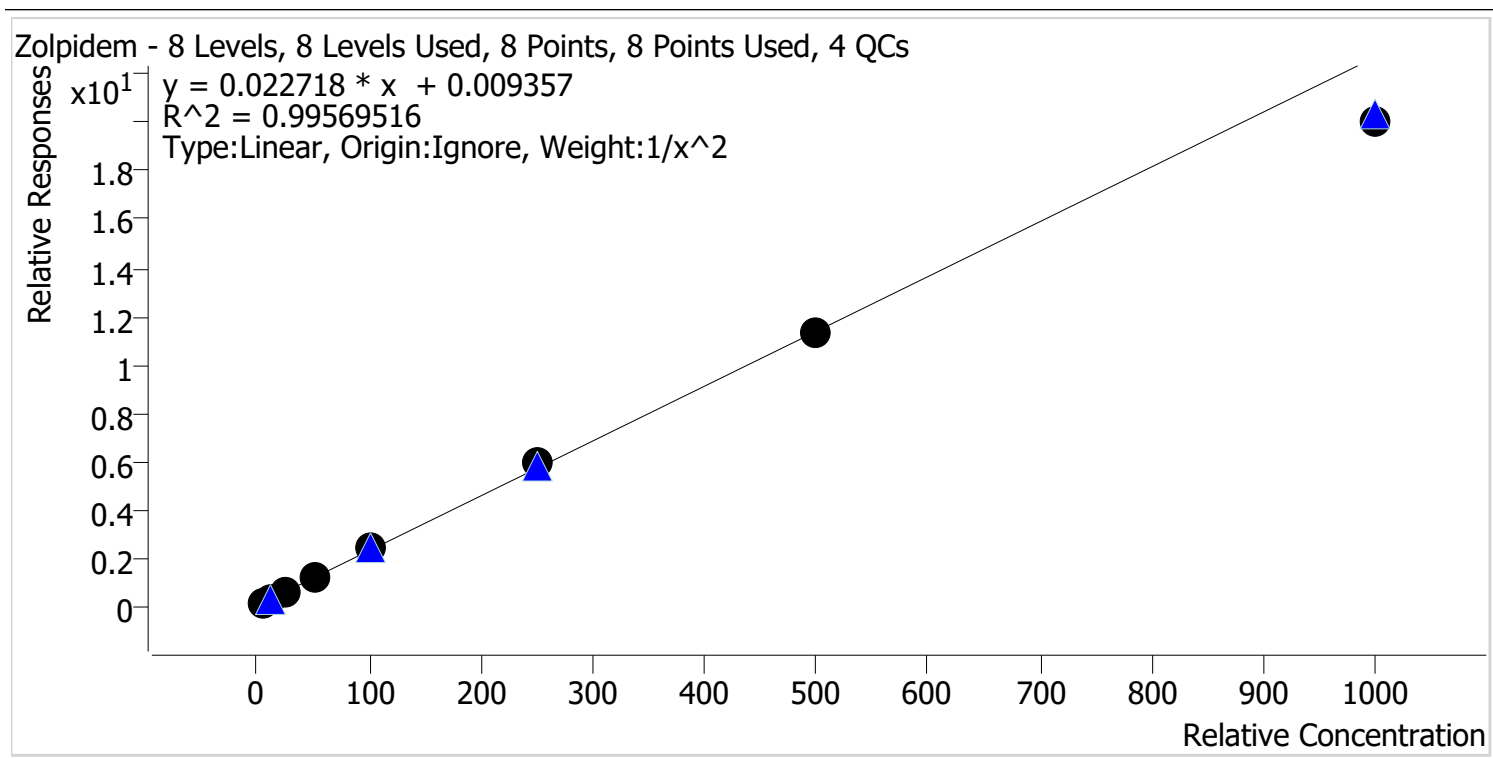
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2-10ng	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	999.1	99.9

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Last Cal. Update 12/19/2024 6:37 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2-10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	52.7	105.3
p1 Cal 5-100ng	5	✓	100.0	105.5	105.5
p1 Cal 6-250ng	6	✓	250.0	261.5	104.6
p1 Cal 7-500ng	7	✓	500.0	497.7	99.5
p1 Cal 8-1000ng	8	✓	1000.0	880.2	88.0

AM #28 Multi-Drug Quant. Results



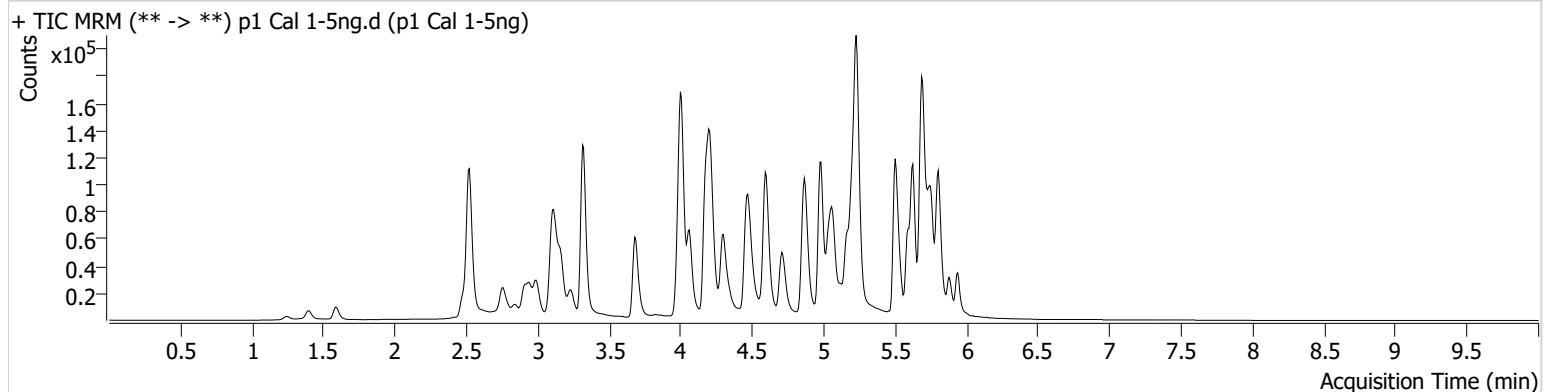
Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-H12
Injection Volume 2
Acq. Date-Time 12/18/2024 12:24:46 AM
Sample Info.

Data File p1 Cal 1-5ng.d
Sample p1 Cal 1-5ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	9559	139.80	112.6	195.18	71478	5.0312 ng/ml
Amphetamine	2.992	35221	1160.94	45.9	844.53	67660	4.8355 ng/ml
Benzoylcegonine	3.862	413	279.84	42.0	71.22	2710	4.9434 ng/ml
Citalopram	5.167	14447	600.39	36.3	7303.77	126803	5.0041 ng/ml
Cocaine	4.203	10623	5307.72	56.1	8315.92	196944	5.1141 ng/ml
Diphenhydramine	5.238	38000	111.71	33.3	973.36	411473	4.9991 ng/ml
Doxylamine	4.484	36709	289.16	96.0	27751.29	285548	4.9911 ng/ml
EDDP	5.203	14179	657.41	41.3	9135.86	128383	5.0114 ng/ml
Fentanyl	5.050	1541	730.09	68.8	610.36	145072	0.5129 ng/ml
Hydromorphone	1.596	3922	9425.26	76.1	7138.73	23868	4.9445 ng/ml
Lorazepam	5.734	7373	783.00	53.0	50.29	96654	4.7431 ng/ml
Methadone	5.626	26394	167.29	49.6	332.44	184350	4.9861 ng/ml
Methamphetamine	3.168	62128	1605.43	35.0	1541.47	170879	4.8561 ng/ml
Mitragynine	5.185	4379	2700.65	37.0	3096.82	184350	4.8258 ng/ml
Morphine	1.254	691	2519.68	64.1	1943.65	1987	4.8300 ng/ml
Norbuprenorphine	4.939	96	251.03	114.6	323.71	5840	0.6418 ng/ml
Nordiazepam	5.888	7096	3403.87	56.5	3436.09	40064	5.0041 ng/ml
Norfentanyl	4.028	2599	38.67	40.3	93.83	210503	0.5186 ng/ml
o-desmethylvenlafaxine	4.013	6925	429.47	277.9	648.75	57316	5.0198 ng/ml
Promethazine	5.504	23634	2850.67	29.7	33.88	202668	5.0727 ng/ml
Sertraline	5.756	3677	172.09	98.2	4141.99	30340	5.1345 ng/ml
Trazodone	5.124	21909	1661.89	64.8	16038.16	144140	4.7604 ng/ml
Venlafaxine	4.983	29034	447.85	31.3	97.92	267637	5.0341 ng/ml
Zolpidem	4.887	25868	868.49	29.2	4686.65	210346	5.0014 ng/ml

AM #28 Multi-Drug Quant. Results



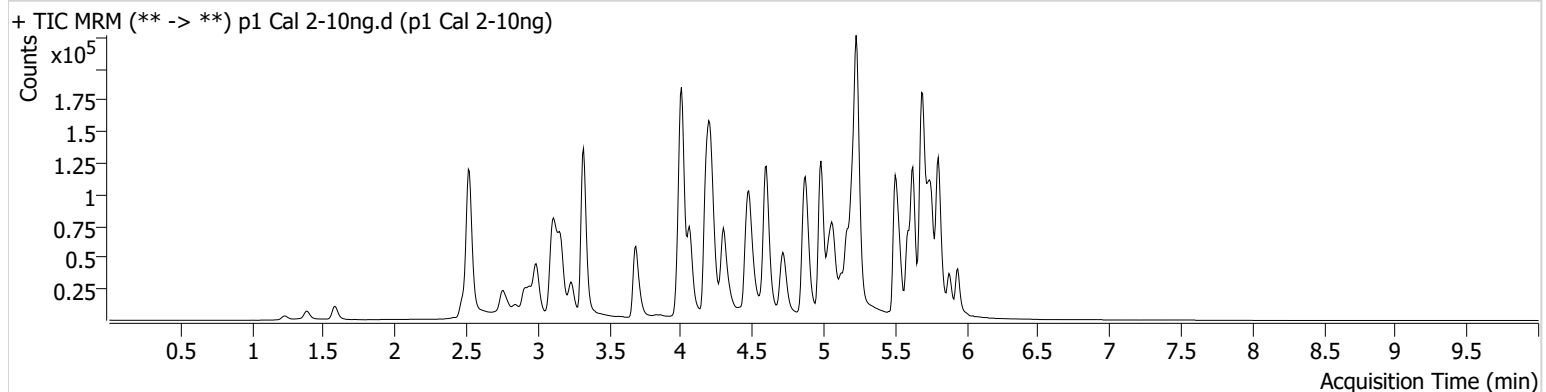
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-G12
Injection Volume 2
Acq. Date-Time 12/18/2024 12:35:34 AM
Sample Info.

Data File p1 Cal 2-10ng.d
Sample p1 Cal 2-10ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	18729	411.24	113.8	270.31	72154	9.7999 ng/ml
Amphetamine	2.992	63725	2799.07	46.5	2032.65	65106	10.5182 ng/ml
Benzoyllecgonine	3.862	931	75.08	38.9	29.98	3020	10.2612 ng/ml
Citalopram	5.167	27710	353.15	36.5	12612.06	122032	10.0450 ng/ml
Cocaine	4.210	19046	9583.66	60.0	4956.24	190285	9.5122 ng/ml
Diphenhydramine	5.238	72867	1150.09	32.7	198.00	392081	10.0503 ng/ml
Doxylamine	4.484	68692	17228.74	100.5	22908.27	270176	10.0119 ng/ml
EDDP	5.210	25064	34367.82	41.3	558.17	116287	9.9530 ng/ml
Fentanyl	5.057	2557	490.57	68.6	1917.75	131840	0.9618 ng/ml
Hydromorphone	1.589	7592	1980.35	73.9	60.77	22923	10.1528 ng/ml
Lorazepam	5.734	14863	728.89	52.3	93.60	98217	10.6447 ng/ml
Methadone	5.626	47922	2826.44	51.7	7001.43	168901	9.9840 ng/ml
Methamphetamine	3.168	82318	398.46	34.9	724.90	167373	10.0277 ng/ml
Mitragynine	5.192	8139	13906.03	38.4	479.92	168901	10.2247 ng/ml
Morphine	1.240	1522	352.27	52.8	436.74	1957	10.5151 ng/ml
Norbuprenorphine	4.939	116	29.06	117.8	88.07	5427	0.8658 ng/ml
Nordiazepam	5.888	13548	14750.39	59.3	1318.59	41118	9.7078 ng/ml
Norfentanyl	4.028	5305	32798.26	38.5	103.77	200524	0.9898 ng/ml
o-desmethylvenlafaxine	4.013	13454	937.92	275.8	2967.83	54970	10.0518 ng/ml
Promethazine	5.504	39150	3030.61	30.3	1406.58	177358	9.7026 ng/ml
Sertraline	5.756	4615	157.99	95.6	815.89	20127	9.6999 ng/ml
Trazodone	5.124	40385	38364.32	62.8	22308.80	133966	10.5192 ng/ml
Venlafaxine	4.983	54558	717.34	30.7	267.94	260380	9.8471 ng/ml
Zolpidem	4.894	48822	12070.24	28.7	3083.26	208184	9.9109 ng/ml

AM #28 Multi-Drug Quant. Results



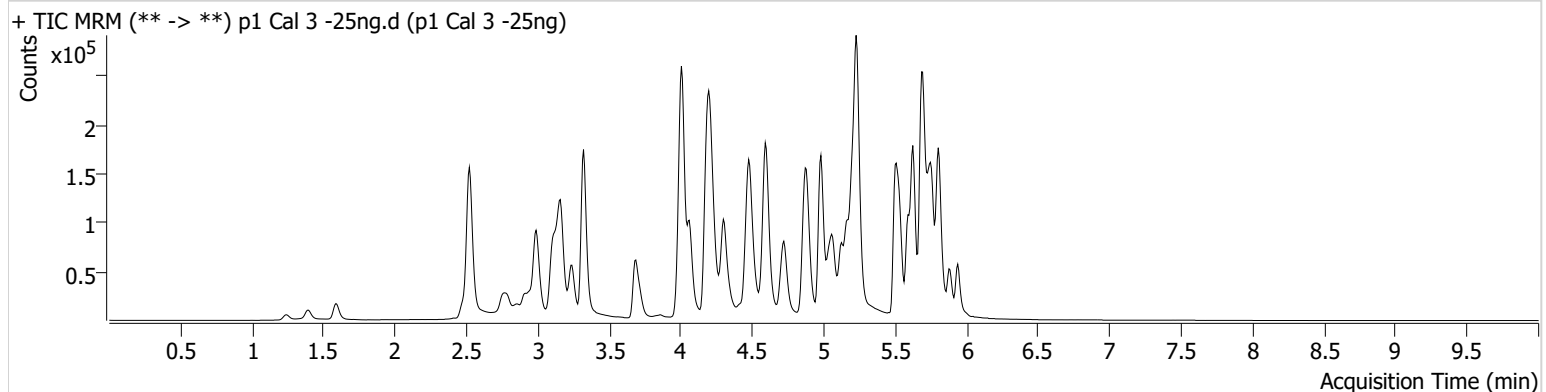
Batch results D:\MassHunter\Data\2024\AM 27 28\121724 AM 27 28 CS\QuantResults\AM 28 cases.batch.bin
Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-F12
Injection Volume 2
Acq. Date-Time 12/18/2024 12:46:13 AM
Sample Info.

Data File p1 Cal 3 -25ng.d
Sample p1 Cal 3 -25ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	47607	503.37	112.7	383.74	70822	25.4373 ng/ml
Amphetamine	2.992	152116	572.85	46.2	1934.89	67631	26.2733 ng/ml
Benzoylcegonine	3.855	2278	228.14	36.0	1334.47	3102	24.8092 ng/ml
Citalopram	5.167	67559	682.64	37.6	10345.57	122202	24.5587 ng/ml
Cocaine	4.210	49395	3104.80	58.3	218826.88	189235	24.8484 ng/ml
Diphenhydramine	5.238	178958	1302.84	33.2	41393.73	389535	24.8300 ng/ml
Doxylamine	4.484	176599	28156.17	98.3	108408.44	282026	24.8690 ng/ml
EDDP	5.203	60857	787.66	42.5	432.80	113431	25.0462 ng/ml
Fentanyl	5.057	6784	2540.02	71.4	415.19	142303	2.4085 ng/ml
Hydromorphone	1.596	19065	24940.36	74.7	61499.27	23492	25.1419 ng/ml
Lorazepam	5.734	32475	4038.21	49.6	65.87	90389	26.9967 ng/ml
Methadone	5.626	120957	779.10	50.6	2264.92	169526	25.2661 ng/ml
Methamphetamine	3.168	157286	5594.90	35.1	2186.04	171324	27.2159 ng/ml
Mitragynine	5.192	21051	1677.13	37.9	14060.73	169526	27.0159 ng/ml
Morphine	1.247	3732	10693.80	61.5	130.62	1945	25.5935 ng/ml
Norbuprenorphine	4.945	343	237.23	92.8	258.01	5876	2.5075 ng/ml
Nordiazepam	5.888	34225	14780.22	58.2	4123.05	39920	26.0025 ng/ml
Norfentanyl	4.028	12996	2967.68	39.2	261.42	201976	2.2549 ng/ml
o-desmethylvenlafaxine	4.013	33224	642.47	279.4	713.66	55703	24.3310 ng/ml
Promethazine	5.504	108181	35657.92	31.4	9478.54	193818	24.7051 ng/ml
Sertraline	5.756	15170	1681.58	101.1	6751.79	26798	23.9233 ng/ml
Trazodone	5.124	102622	209951.73	66.5	60101.20	141980	26.7533 ng/ml
Venlafaxine	4.983	138837	4678.27	31.6	1957.38	262773	25.0327 ng/ml
Zolpidem	4.887	116556	239005.01	31.2	1725.86	206107	24.4808 ng/ml

AM #28 Multi-Drug Quant. Results



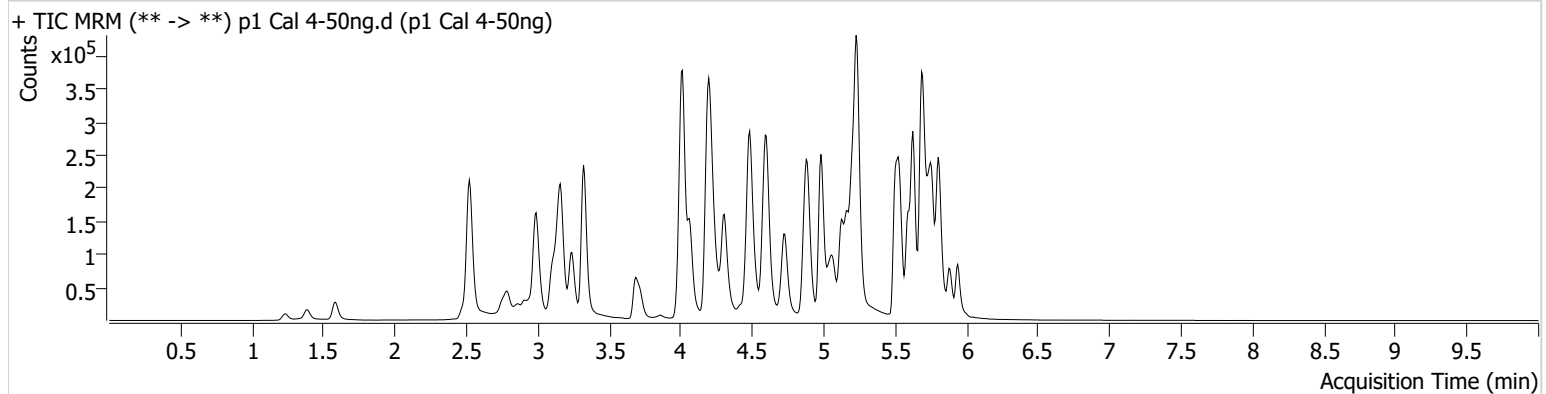
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-E12
Injection Volume 2
Acq. Date-Time 12/18/2024 12:56:51 AM
Sample Info.

Data File p1 Cal 4-50ng.d
Sample p1 Cal 4-50ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	92502	404.22	114.0	2183.21	69959	50.0705 ng/ml
Amphetamine	2.992	285768	4588.33	46.8	2949.64	68262	50.2959 ng/ml
Benzoylcegonine	3.855	4716	790.81	38.4	1165.24	3251	49.2671 ng/ml
Citalopram	5.167	147577	8282.09	36.6	32337.84	133168	49.3011 ng/ml
Cocaine	4.210	103997	348.62	56.7	1686.22	192852	51.3622 ng/ml
Diphenhydramine	5.238	385213	572.24	33.1	9714.58	421926	49.3346 ng/ml
Doxylamine	4.484	375411	6780.55	99.8	8252.84	297132	50.3250 ng/ml
EDDP	5.210	119995	5729.07	43.2	25050.18	112889	49.8003 ng/ml
Fentanyl	5.057	14734	181.72	68.2	12374.14	148913	5.0321 ng/ml
Hydromorphone	1.589	38979	4765.26	74.9	6122.08	23819	50.8832 ng/ml
Lorazepam	5.734	57085	1932.38	53.2	322.67	82083	53.4326 ng/ml
Methadone	5.626	262499	31921.37	50.0	715.07	184629	50.4509 ng/ml
Methamphetamine	3.168	281558	6318.41	35.6	5176.42	176755	54.4303 ng/ml
Mitragynine	5.192	44021	46861.52	38.8	4129.60	184629	52.2636 ng/ml
Morphine	1.233	8070	4726.53	55.6	296.53	2077	51.6081 ng/ml
Norbuprenorphine	4.945	669	879.16	101.7	994.32	6467	4.5133 ng/ml
Nordiazepam	5.888	66394	913.21	58.8	359.89	38871	52.2629 ng/ml
Norfentanyl	4.028	25277	39757.00	40.3	360.39	191389	4.5163 ng/ml
o-desmethylvenlafaxine	4.013	68081	422.39	272.4	8339.77	55586	49.8408 ng/ml
Promethazine	5.504	229735	22311.97	31.4	5670.61	199693	51.0397 ng/ml
Sertraline	5.756	30098	231.63	99.3	434.82	26558	47.8787 ng/ml
Trazodone	5.124	217043	181608.05	66.5	159909.15	152389	53.7814 ng/ml
Venlafaxine	4.983	294251	61572.78	31.5	355.99	276969	50.4694 ng/ml
Zolpidem	4.894	260990	3375.71	29.3	498.16	216455	52.6625 ng/ml

AM #28 Multi-Drug Quant. Results



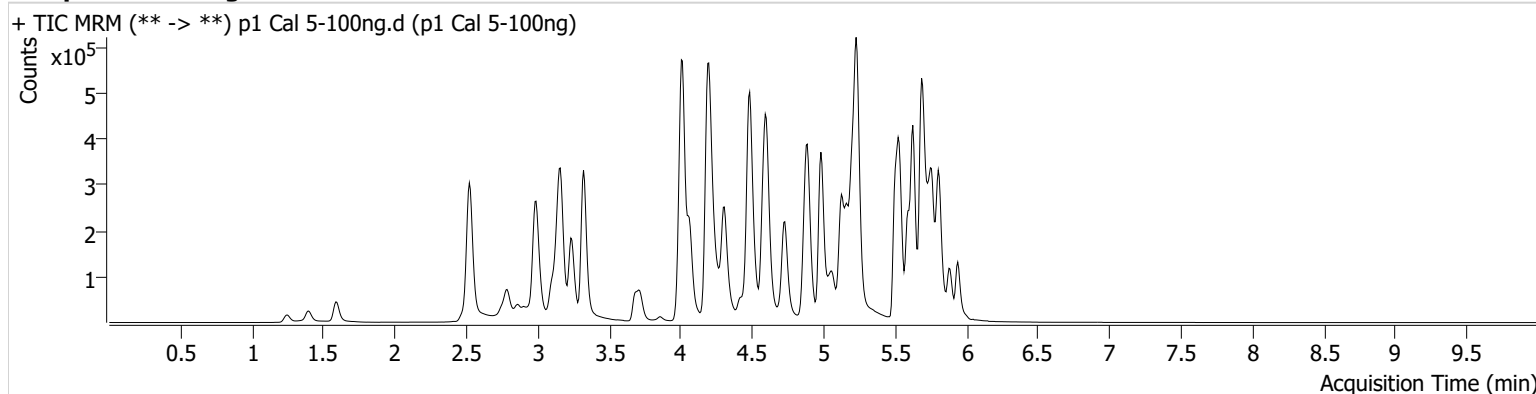
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-D12
Injection Volume 2
Acq. Date-Time 12/18/2024 1:07:28 AM
Sample Info.

Data File p1 Cal 5-100ng.d
Sample p1 Cal 5-100ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	169733	518.77	114.7	1286.29	64563	99.5910 ng/ml
Amphetamine	2.992	493343	25618.00	46.0	4092.80	65057	92.4229 ng/ml
Benzoylcegonine	3.855	9668	471.83	37.9	187.93	3206	102.6816 ng/ml
Citalopram	5.167	271272	8114.50	37.7	489.29	116161	103.9719 ng/ml
Cocaine	4.210	187270	1138.25	58.0	730.75	179080	99.6272 ng/ml
Diphenhydramine	5.238	720716	112851.20	33.2	428.29	387104	100.5955 ng/ml
Doxylamine	4.484	727197	64459.72	97.5	2367.02	282353	102.7349 ng/ml
EDDP	5.203	225848	20557.49	42.1	12820.38	105901	100.0999 ng/ml
Fentanyl	5.057	27456	24861.47	71.6	8617.07	141831	9.8744 ng/ml
Hydromorphone	1.596	73665	5470.42	75.2	5116.10	22647	101.3200 ng/ml
Lorazepam	5.734	80918	17749.22	52.3	1496.74	64098	98.0151 ng/ml
Methadone	5.626	477851	1282.69	50.9	1001.05	167887	101.1039 ng/ml
Methamphetamine	3.161	505935	1102.95	35.5	2695.06	174976	106.7939 ng/ml
Mitragynine	5.185	82459	84343.16	38.6	32770.11	167887	108.1096 ng/ml
Morphine	1.247	14467	519.77	57.3	426.91	1916	100.0573 ng/ml
Norbuprenorphine	4.945	1356	70.14	89.1	41.57	6055	9.8687 ng/ml
Nordiazepam	5.888	119496	888.67	57.6	6970.70	35715	102.8179 ng/ml
Norfentanyl	4.028	45587	1185.31	38.0	∞	168819	9.1227 ng/ml
o-desmethylvenlafaxine	4.013	122368	6990.02	276.9	6980.94	50153	99.1744 ng/ml
Promethazine	5.504	423188	43002.86	32.1	418.06	185979	101.0613 ng/ml
Sertraline	5.750	50435	850.13	97.8	∞	21659	98.3619 ng/ml
Trazodone	5.124	405631	314893.87	67.9	238301.59	145889	106.0337 ng/ml
Venlafaxine	4.983	552149	25085.44	31.7	219.01	265588	98.8891 ng/ml
Zolpidem	4.894	497495	644122.93	29.2	89306.40	206834	105.4633 ng/ml

AM #28 Multi-Drug Quant. Results



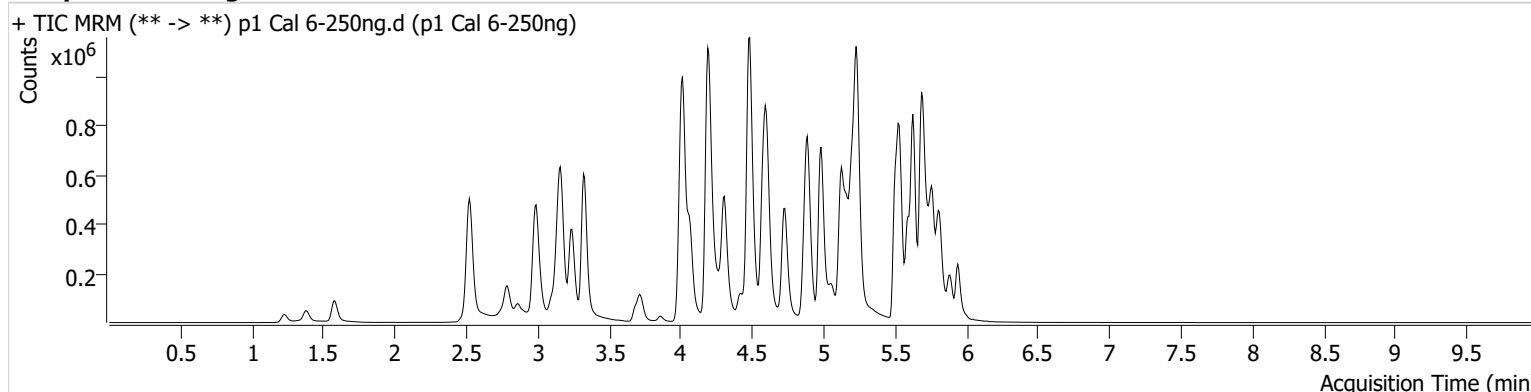
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-C12
Injection Volume 2
Acq. Date-Time 12/18/2024 1:18:05 AM
Sample Info.

Data File p1 Cal 6-250ng.d
Sample p1 Cal 6-250ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	354180	1119.65	112.2	412.91	52814	254.1032 ng/ml
Amphetamine	2.992	912278	46156.01	46.5	43840.09	61341	182.8173 ng/ml
Benzoylcegonine	3.862	23762	56636.21	38.2	1486.38	3211	252.4194 ng/ml
Citalopram	5.167	587829	1684.90	38.4	638.06	104462	250.6340 ng/ml
Cocaine	4.203	408286	1311.18	57.4	149355.77	153250	253.8571 ng/ml
Diphenhydramine	5.238	1616458	77451.57	33.3	13940.50	348409	250.6637 ng/ml
Doxylamine	4.484	1788226	219688.65	94.7	50008.12	278848	256.0230 ng/ml
EDDP	5.203	476384	32307.26	42.8	11515.38	89276	250.7342 ng/ml
Fentanyl	5.050	70286	33427.13	70.1	49359.75	141998	25.2955 ng/ml
Hydromorphone	1.575	165373	12164.22	74.9	523682.01	20355	253.3353 ng/ml
Lorazepam	5.734	111030	6339.43	54.0	1001.69	38721	224.2222 ng/ml
Methadone	5.626	1118559	1873.38	50.7	138657.78	157379	252.6244 ng/ml
Methamphetamine	3.168	1074185	25732.94	35.3	15285.67	173409	239.9916 ng/ml
Mitragynine	5.185	181145	143342.96	39.5	123779.62	157379	253.9185 ng/ml
Morphine	1.227	31433	1324.36	56.5	713.35	1571	264.6975 ng/ml
Norbuprenorphine	4.939	3123	249.77	97.3	1514.21	5941	23.2737 ng/ml
Nordiazepam	5.888	222335	368.88	58.7	560.05	27247	251.4230 ng/ml
Norfentanyl	4.028	89880	64050.63	38.7	5230.55	123375	24.4311 ng/ml
o-desmethylvenlafaxine	4.013	244203	7856.53	278.3	82745.28	41049	241.6487 ng/ml
Promethazine	5.504	977799	49536.97	32.6	1911.89	172691	251.6423 ng/ml
Sertraline	5.750	101906	482.72	96.2	8012.93	15924	270.2832 ng/ml
Trazodone	5.124	908711	89496.07	71.1	2708.30	147325	236.5616 ng/ml
Venlafaxine	4.983	1303834	881.34	31.6	24105.39	246110	252.2020 ng/ml
Zolpidem	4.894	1135663	1313845.23	28.8	552531.45	190891	261.4615 ng/ml

AM #28 Multi-Drug Quant. Results



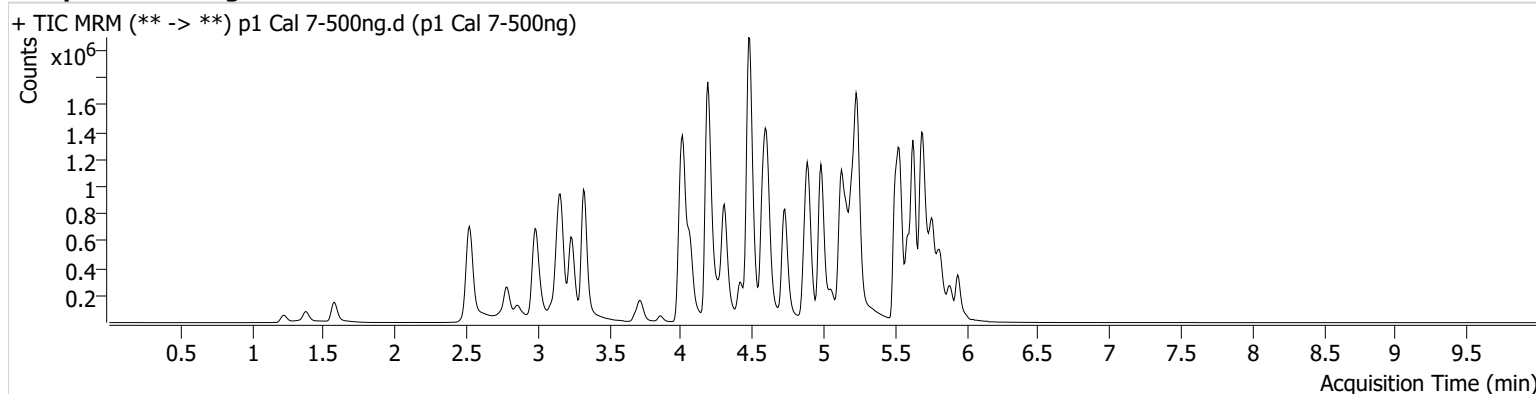
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-B12
Injection Volume 2
Acq. Date-Time 12/18/2024 1:28:42 AM
Sample Info.

Data File p1 Cal 7-500ng.d
Sample p1 Cal 7-500ng
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included 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	5.763	546162	352.50	110.3	565.35	40736	508.0553 ng/ml
Amphetamine	2.992	1356070	273410.39	45.7	7589.36	59128	282.8000 ng/ml
Benzoylcegonine	3.855	48663	115312.33	39.5	14513.72	3420	485.5220 ng/ml
Citalopram	5.167	955068	100049.46	37.6	1153.29	86784	490.2309 ng/ml
Cocaine	4.203	646032	48442.52	57.3	82463.42	123753	497.4431 ng/ml
Diphenhydramine	5.238	2728904	102548.46	33.8	1761.09	296504	497.2403 ng/ml
Doxylamine	4.484	3310952	64086.43	96.0	96137.98	264979	498.9809 ng/ml
EDDP	5.203	849801	48204.93	42.2	31953.66	80067	498.8981 ng/ml
Fentanyl	5.050	148828	89607.01	68.3	752.98	146708	51.8747 ng/ml
Hydromorphone	1.575	298974	62105.66	76.2	7174.34	19014	490.4768 ng/ml
Lorazepam	5.734	126125	30494.61	53.7	297.99	21689	456.0225 ng/ml
Methadone	5.626	1986071	102119.79	49.9	191879.68	142051	497.0518 ng/ml
Methamphetamine	3.161	1824066	137214.80	35.4	37546.85	175037	410.4294 ng/ml
Mitragynine	5.185	298292	15211.09	38.9	8015.16	142051	463.5941 ng/ml
Morphine	1.227	55745	1848.65	56.7	576.12	1555	474.0397 ng/ml
Norbuprenorphine	4.939	6174	9359.22	90.5	5706.62	5436	50.3924 ng/ml
Nordiazepam	5.888	299838	743.96	59.3	16823.33	17894	516.7750 ng/ml
Norfentanyl	4.035	129336	11462.27	39.0	1418.11	76439	56.6019 ng/ml
o-desmethylvenlafaxine	4.013	368647	175.66	277.6	94860.14	30614	489.0078 ng/ml
Promethazine	5.504	1833629	109381.31	31.9	23947.95	162882	500.4270 ng/ml
Sertraline	5.750	169464	135.96	96.6	250.20	14177	504.8536 ng/ml
Trazodone	5.124	1611800	301990.51	73.1	563883.36	146841	421.8322 ng/ml
Venlafaxine	4.983	2362945	128876.82	31.5	1183.82	224815	500.4933 ng/ml
Zolpidem	4.894	1996696	169312.76	29.0	255834.84	176440	497.7187 ng/ml

AM #28 Multi-Drug Quant. Results



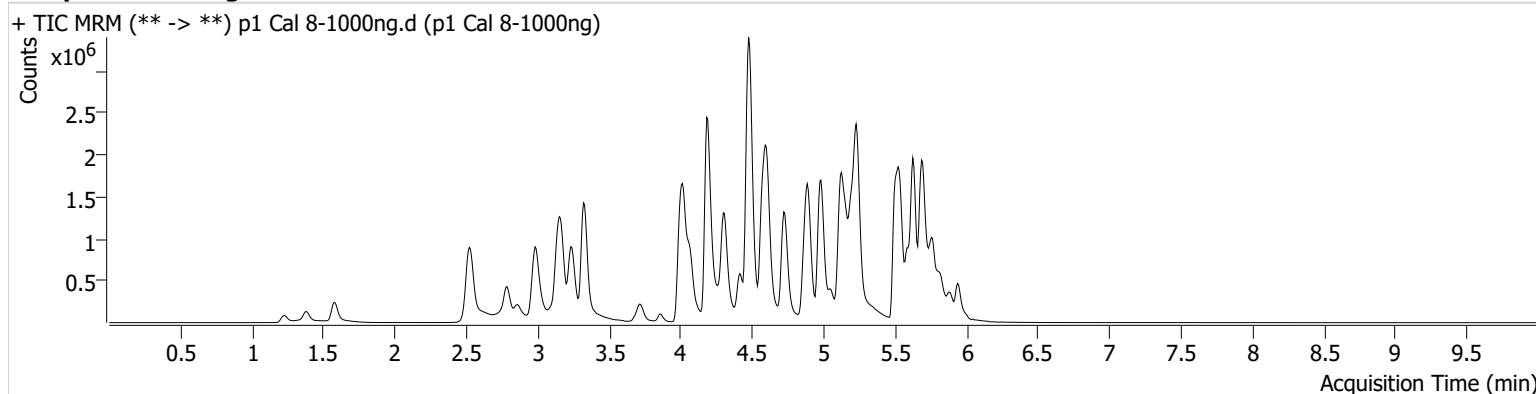
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Calibration Last Update 12/19/2024 6:37:50 AM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-A12
Injection Volume 2
Acq. Date-Time 12/18/2024 1:39:21 AM
Sample Info.

Data File p1 Cal 8-1000ng.d
Sample p1 Cal 8-1000ng
Operator Celena Shrum
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	738123	77.37	112.4	83.30	28943	966.4271 ng/ml
Amphetamine	2.992	1787790	56011.80	46.1	6288.35	55527	397.6629 ng/ml
Benzoylcegonine	3.855	107314	6532.33	38.5	4618.24	3663	999.9460 ng/ml
Citalopram	5.160	1419607	139612.86	37.3	27411.97	63016	1003.5936 ng/ml
Cocaine	4.203	896694	708.47	57.2	498.13	85603	998.1938 ng/ml
Diphenhydramine	5.238	4201068	5324.41	33.8	10928.49	224239	1012.1683 ng/ml
Doxylamine	4.477	5686557	26513.10	96.1	151768.91	239091	949.9246 ng/ml
EDDP	5.203	1485621	1367.73	42.9	17908.90	69647	1002.8389 ng/ml
Fentanyl	5.050	295554	48010.97	70.0	316345.47	150302	100.5825 ng/ml
Hydromorphone	1.575	533536	1698739.94	75.6	908993.39	17250	964.9899 ng/ml
Lorazepam	5.734	146296	29545.46	54.0	1996.46	10950	1049.3132 ng/ml
Methadone	5.626	3223223	131891.71	51.0	30088.18	118258	969.0775 ng/ml
Methamphetamine	3.161	2635851	33274.36	35.3	123199.64	166259	629.5106 ng/ml
Mitragynine	5.178	461813	58549.97	42.7	83034.17	118258	862.5070 ng/ml
Morphine	1.227	92705	868.38	55.1	1410.56	1334	919.1425 ng/ml
Norbuprenorphine	4.939	10909	68.45	91.8	8967.16	4753	101.9368 ng/ml
Nordiazepam	5.888	353236	375.14	64.1	17829.83	12446	875.6146 ng/ml
Norfentanyl	4.035	140303	1282.89	39.6	5042.68	40907	114.6265 ng/ml
o-desmethylvenlafaxine	4.013	470351	2597.15	278.7	57346.78	17611	1084.4493 ng/ml
Promethazine	5.504	3067303	109963.27	32.0	73445.60	137999	988.1696 ng/ml
Sertraline	5.750	268148	242.16	94.9	237.21	11167	1014.1546 ng/ml
Trazodone	5.124	2575987	130364.32	74.5	667065.96	149536	662.6477 ng/ml
Venlafaxine	4.983	3868959	184455.05	31.7	62267.22	184424	999.0887 ng/ml
Zolpidem	4.894	3090964	534190.43	29.1	144152.82	154498	880.2323 ng/ml