

REVIEWED

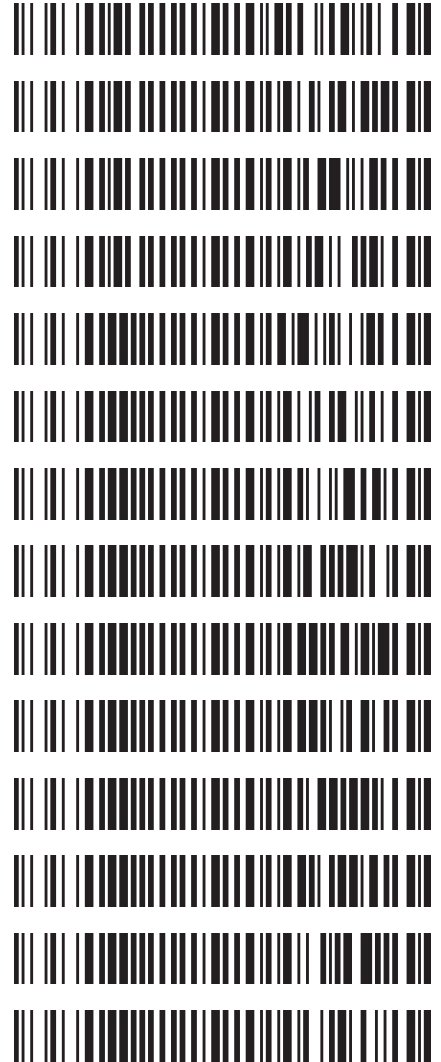
By Tamara Salazar at 9:03 am, Dec 10, 2024

CS

12/9/2024

Worklist: 6992

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2024-2791	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
M2024-4559	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
M2024-4632	1	COBCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
M2024-4836	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3219	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3325	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3375	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3463	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3470	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3471	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3475	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3526	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3564	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2024-3588	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ



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

Extraction Date: 12/06/2024

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:

6-MAM

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

Amphetamine 5-250 --calibrators 7 and 8 dropped due to accuracy- QUALITATIVE ONLY DUE TO QC 250 ACCURACY

Benzoylcegonine

Bromazolam

2

Bupropion
Citalopram
Clonazepam 5-500 --calibrator 8 dropped due to accuracy/linearity
Cocaine
Codeine
Cyclobenzaprine
Dextromethorphan
Dextrophan
Dihydrocodeine 5-500 --calibrator 8 dropped due to accuracy
Diphenhydramine
Fentanyl
Hydrocodone
Hydroxyzine
Methamphetamine 5-500 --calibrator 8 dropped due to accuracy
Metoprolol 5-500 --calibrator 8 dropped due to accuracy
Mitragynine
Morphine
Norhydrocodone
Pseudoephedrine
Sertraline
Tramadol
Trazodone 5-500 --calibrator 8 dropped due to accuracy

2

[illegible]

AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

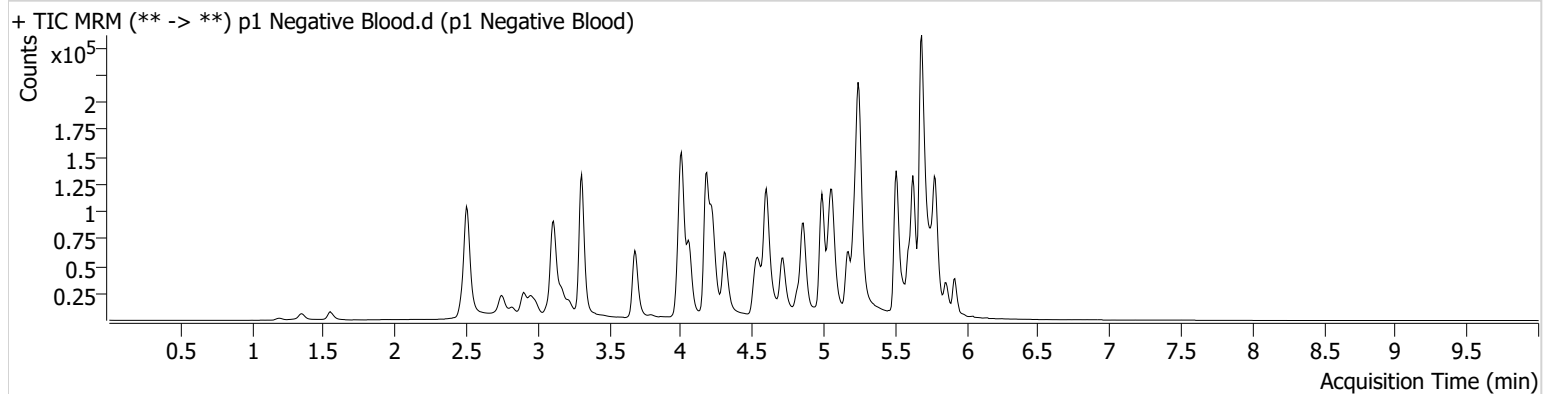
Instrument Falco (069901)
Type Sample
Acq. Method AM 28 MDQ P1.m
Sample Position P2-F2
Injection Volume 2
Acq. Date-Time 12/7/2024 12:16:49 AM
Sample Info.

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



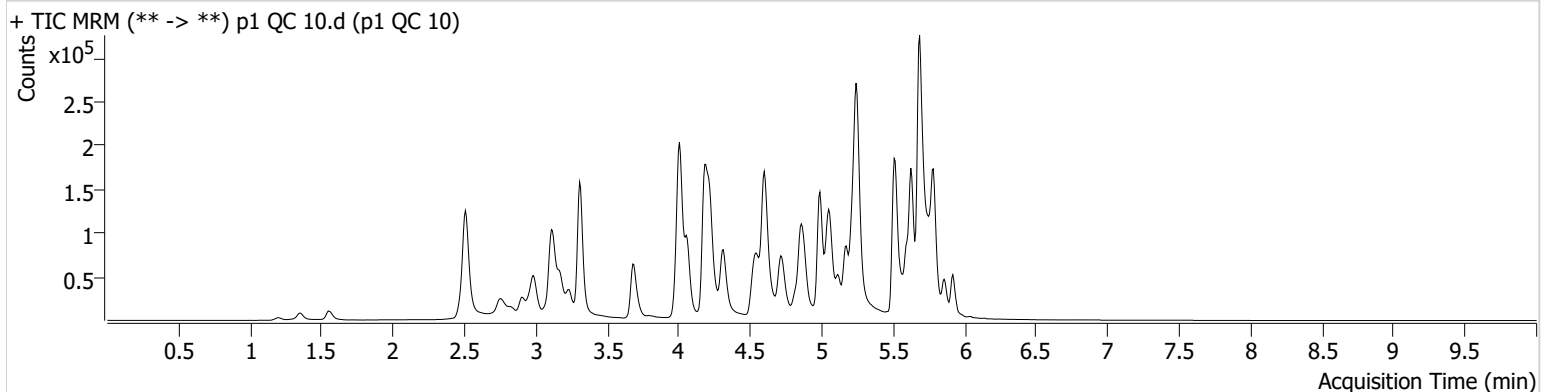
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-A2
Injection Volume 2
Acq. Date-Time 12/6/2024 11:13:01 PM
Sample Info.

Data File p1 QC 10.d
Sample p1 QC 10
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.
6-MAM	3.082	582	196.06	72.9	134.34	17053	0.9540 ng/ml
7-aminoclonazepam	4.203	9085	163.62	80.0	30.06	36256	10.5892 ng/ml
Amphetamine	2.986	69051	2151.49	48.8	584.42	77274	10.1207 ng/ml
Benzoyllecgonine	3.822	927	256.16	42.6	109.74	3292	9.9002 ng/ml
Bromazolam	5.781	15140	3962.29	135.2	8570.04	39277	9.7022 ng/ml
Bupropion	4.732	38440	410.59	64.4	173.98	132985	9.3793 ng/ml
Citalopram	5.174	34293	305.16	35.7	19696.07	159110	9.5573 ng/ml
Clonazepam	5.571	23334	1564.48	34.1	8028.99	30260	9.8995 ng/ml
Cocaine	4.223	23341	162.94	56.0	104.06	232994	9.3754 ng/ml
Codeine	2.528	3318	243.45	102.8	138.31	15340	10.3171 ng/ml
Cyclobenzaprine	5.601	35910	177.32	8.0	3941.53	129095	9.1993 ng/ml
Dextromethorphan	5.231	21618	421.57	82.7	47.21	96877	9.4055 ng/ml
Dextrorphan	4.062	12344	804.84	212.8	1486.50	136320	9.2169 ng/ml
Dihydrocodeine	2.514	8515	133.66	60.1	88.60	45785	9.8426 ng/ml
Diphenhydramine	5.252	86900	281.12	31.8	97.81	501126	9.3467 ng/ml
Fentanyl	5.057	3439	204.38	71.2	54.52	195308	0.8515 ng/ml
Hydrocodone	2.982	12622	80.05	34.4	40.38	60688	9.4910 ng/ml
Hydroxyzine	5.685	43613	39730.03	62.2	816.60	96877	9.5571 ng/ml
Methamphetamine	3.175	91596	2275.27	35.8	2236.88	193929	9.9967 ng/ml
Metoprolol	4.272	6855	385.87	107.4	603.12	328208	9.7747 ng/ml
Mitragynine	5.192	13793	23830.92	38.6	3336.66	234352	9.8593 ng/ml
Morphine	1.207	1341	151.60	53.9	360.29	1754	9.9900 ng/ml
Norfentanyl	4.028	5879	110.48	36.2	85.62	239295	1.0012 ng/ml
Norhydrocodone	3.010	2244	54.47	41.3	33.83	16153	10.0155 ng/ml
Pseudoephedrine	2.518	60216	1852.74	18.0	3004.93	315416	9.2999 ng/ml
Sertraline	5.756	17280	259.42	100.0	176.94	76556	9.3452 ng/ml
Tramadol	4.191	67888	3958.41	3.4	17.50	328208	9.8433 ng/ml
Trazodone	5.117	52304	224.07	64.6	12429.71	181910	9.7784 ng/ml

AM #28 Multi-Drug Quant. Results



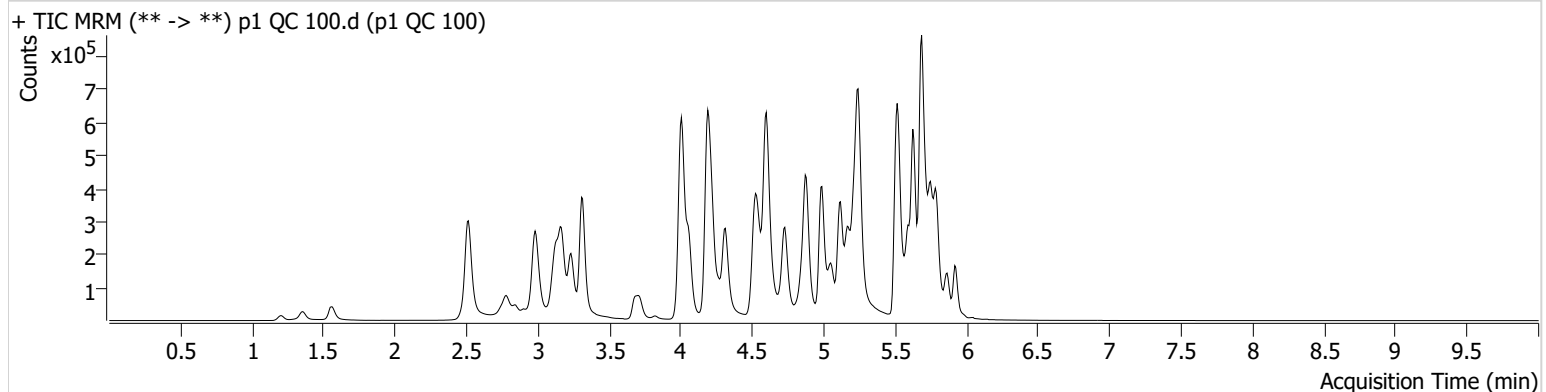
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-B2
Injection Volume 2
Acq. Date-Time 12/7/2024 5:36:11 AM
Sample Info.

Data File p1 QC 100.d
Sample p1 QC 100
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



AM #28 Multi-Drug Quant. Results



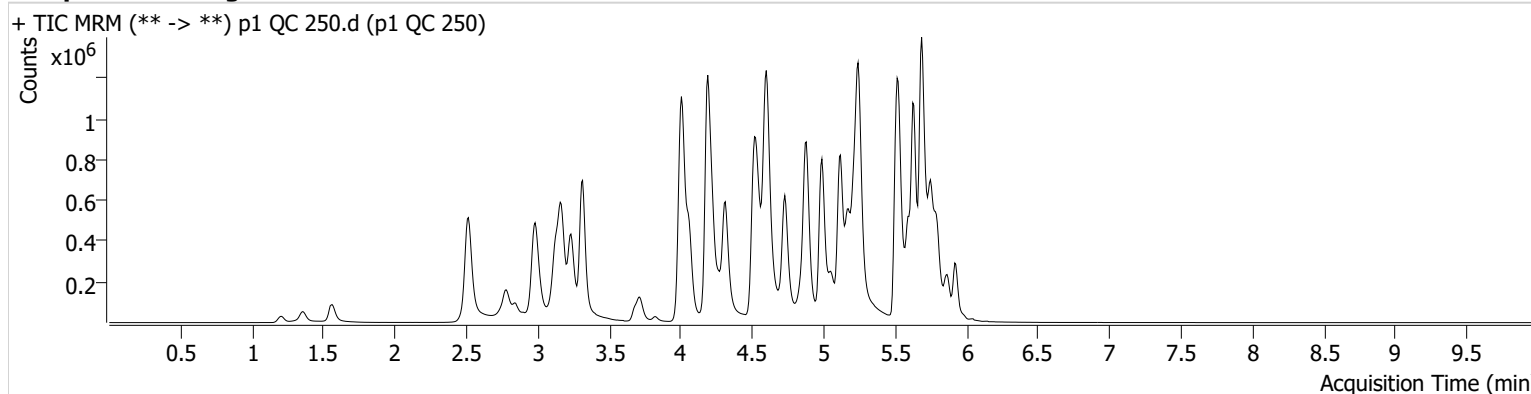
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-C2
Injection Volume 2
Acq. Date-Time 12/6/2024 11:34:18 PM
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.
6-MAM	3.082	14345	2070.31	73.9	1184.08	16236	24.9893 ng/ml
7-aminoclonazepam	4.197	57487	137.06	89.9	833.11	17208	184.9954 ng/ml
Amphetamine	2.986	1066977	73448.00	46.3	53438.64	70807	199.0764 ng/ml
Benzoylcegonine	3.822	25457	308.54	38.5	1477.30	3628	242.1225 ng/ml
Bromazolam	5.781	194384	5108.27	136.6	142299.02	21460	241.9050 ng/ml
Bupropion	4.732	943988	269929.88	62.7	17639.99	127577	246.1798 ng/ml
Citalopram	5.167	717312	127663.51	39.0	1103.22	135677	231.7571 ng/ml
Clonazepam	5.571	286513	7988.98	35.3	11792.27	17354	232.2028 ng/ml
Cocaine	4.217	496470	106972.04	57.3	159128.23	188680	256.7540 ng/ml
Codeine	2.528	55371	1302.47	103.8	318.57	11839	248.2694 ng/ml
Cyclobenzaprine	5.601	790756	61765.28	7.4	50830.94	106217	245.7979 ng/ml
Dextromethorphan	5.224	456718	554.17	78.0	345.13	81791	231.0235 ng/ml
Dextrorphan	4.062	261957	778.47	213.1	697.78	111913	238.2085 ng/ml
Dihydrocodeine	2.500	164961	1248.06	65.5	690.83	44066	219.6850 ng/ml
Diphenhydramine	5.252	1904860	116132.71	33.4	1325.03	424404	246.4173 ng/ml
Fentanyl	5.057	93367	22147.89	69.2	817.00	202182	23.0294 ng/ml
Hydrocodone	2.975	266671	203.96	37.5	91.41	55224	237.2437 ng/ml
Hydroxyzine	5.685	923624	331487.42	68.0	24419.12	81791	248.4881 ng/ml
Methamphetamine	3.168	1308824	29343.03	35.4	1035.53	198841	245.0657 ng/ml
Metoprolol	4.272	148113	162433.81	106.7	168003.07	292466	248.3768 ng/ml
Mitragynine	5.185	311860	158153.09	39.2	1771.18	208995	253.3554 ng/ml
Morphine	1.207	30832	4755.99	56.6	304.50	1608	255.0528 ng/ml
Norfentanyl	4.028	97949	7555.25	38.2	725.48	142873	24.6046 ng/ml
Norhydrocodone	3.010	57416	426.72	40.9	234.76	14025	254.1614 ng/ml
Pseudoephedrine	2.518	1220728	133732.85	17.2	171.42	251368	240.1241 ng/ml
Sertraline	5.756	289692	44586.69	93.7	228868.26	48564	249.2541 ng/ml
Tramadol	4.191	1436745	1281.27	3.5	853.05	292466	255.4803 ng/ml
Trazodone	5.117	1184568	1256785.91	70.1	927595.62	193655	231.4254 ng/ml

AM #28 Multi-Drug Quant. Results



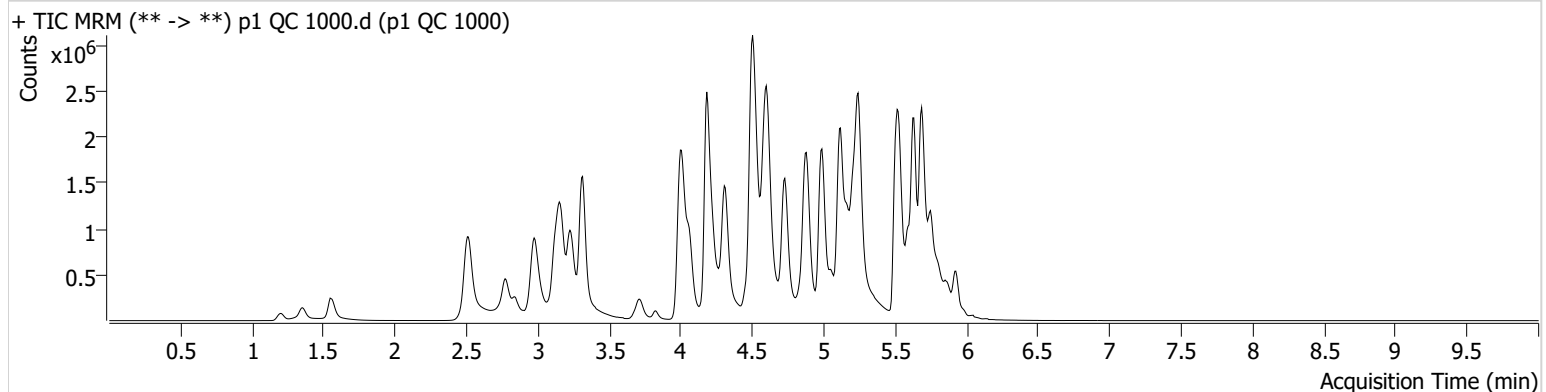
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 28 MDQ P1.m
Sample Position P2-D2
Injection Volume 2
Acq. Date-Time 12/6/2024 11:55:33 PM
Sample Info.

Data File p1 QC 1000.d
Sample p1 QC 1000
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.
6-MAM	3.075	44599	462.82	70.1	50663.79	12859	98.1240 ng/ml
7-aminoclonazepam	4.210	74136	296.68	80.2	1416.95	4768	873.8994 ng/ml
Amphetamine	2.979	2036720	81217.06	46.4	120345.65	59307	455.9937 ng/ml
Benzoyllecgonine	3.822	103694	543.87	38.4	6967.38	3665	975.9169 ng/ml
Bromazolam	5.781	322356	139824.66	135.5	262130.63	9747	884.8975 ng/ml
Bupropion	4.732	2729652	131748.57	62.1	1860.84	100893	900.7907 ng/ml
Citalopram	5.167	1643782	∞	37.1	∞	74689	964.3984 ng/ml
Clonazepam	5.564	374150	10057.30	35.3	13295.69	6901	764.7531 ng/ml
Cocaine	4.217	1119745	861298.63	57.6	718.79	108863	1004.8788 ng/ml
Codeine	2.528	129458	313.53	102.6	5315.80	7000	985.3771 ng/ml
Cyclobenzaprine	5.594	1729973	109983.63	7.6	360.14	56094	1018.1902 ng/ml
Dextromethorphan	5.217	1069389	20664.86	78.5	730.30	47081	939.1818 ng/ml
Dextrorphan	4.062	664440	9292.11	209.6	106899.40	68523	986.7861 ng/ml
Dihydrocodeine	2.487	420789	13439.38	65.3	12800.07	35047	707.0889 ng/ml
Diphenhydramine	5.252	4615959	283765.26	33.7	17147.00	259326	977.7815 ng/ml
Fentanyl	5.057	344737	192481.96	71.4	175760.64	181547	94.7824 ng/ml
Hydrocodone	2.968	866231	266.06	35.6	195.17	46229	922.7734 ng/ml
Hydroxyzine	5.685	2035215	1933372.15	70.7	669297.12	47081	952.2509 ng/ml
Methamphetamine	3.161	3317424	153054.28	35.3	82903.01	172102	733.4314 ng/ml
Metoprolol	4.272	315456	362166.18	108.3	1607.42	213337	726.1520 ng/ml
Mitragynine	5.185	733616	894934.09	40.5	253169.84	138184	901.7524 ng/ml
Morphine	1.200	88506	356.87	56.7	3391.53	1184	994.8792 ng/ml
Norfentanyl	4.028	151912	34562.06	38.8	1182.53	46419	116.9856 ng/ml
Norhydrocodone	3.010	154887	∞	44.2	93.54	8689	1101.8611 ng/ml
Pseudoephedrine	2.518	3000497	325.09	17.4	122335.81	149094	995.5426 ng/ml
Sertraline	5.756	401611	41011.51	96.0	3618.96	17317	969.3455 ng/ml
Tramadol	4.184	3515730	1040.98	3.5	6099.43	213337	859.2891 ng/ml
Trazodone	5.117	3122819	371940.39	74.8	220136.53	178836	662.7902 ng/ml

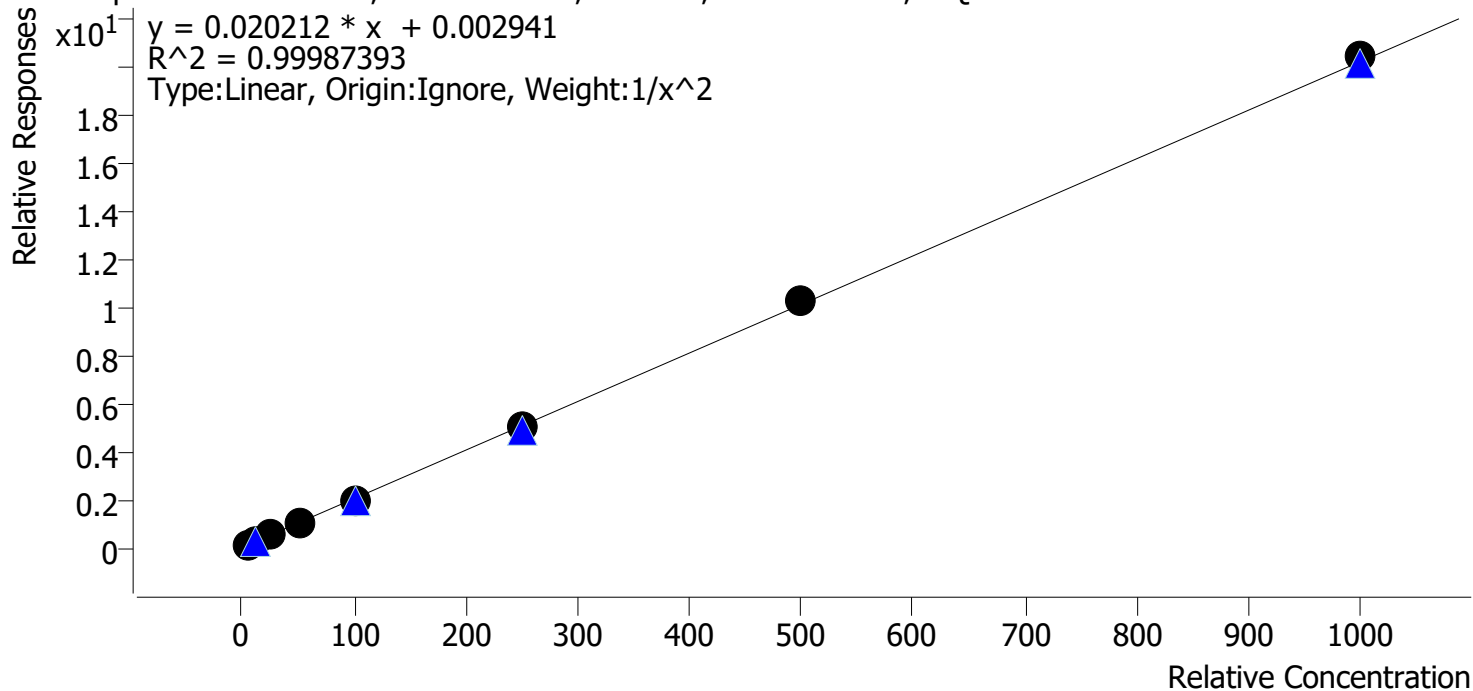
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Pseudoephedrine **Internal Standard** Pseudoephedrine-D3

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



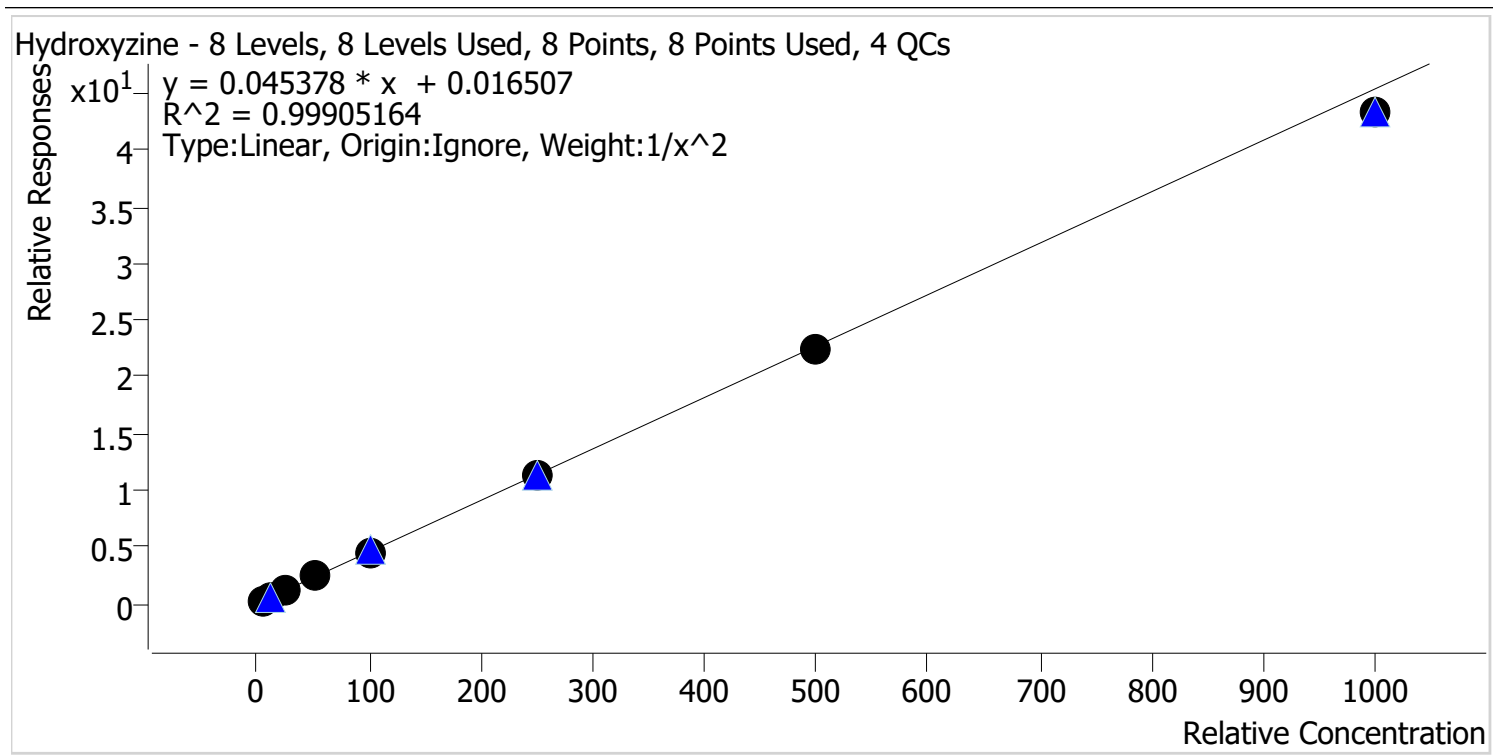
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2-10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	506.4	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1010.5	101.0

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Hydroxyzine **Internal Standard** Dextromethorphan-D3



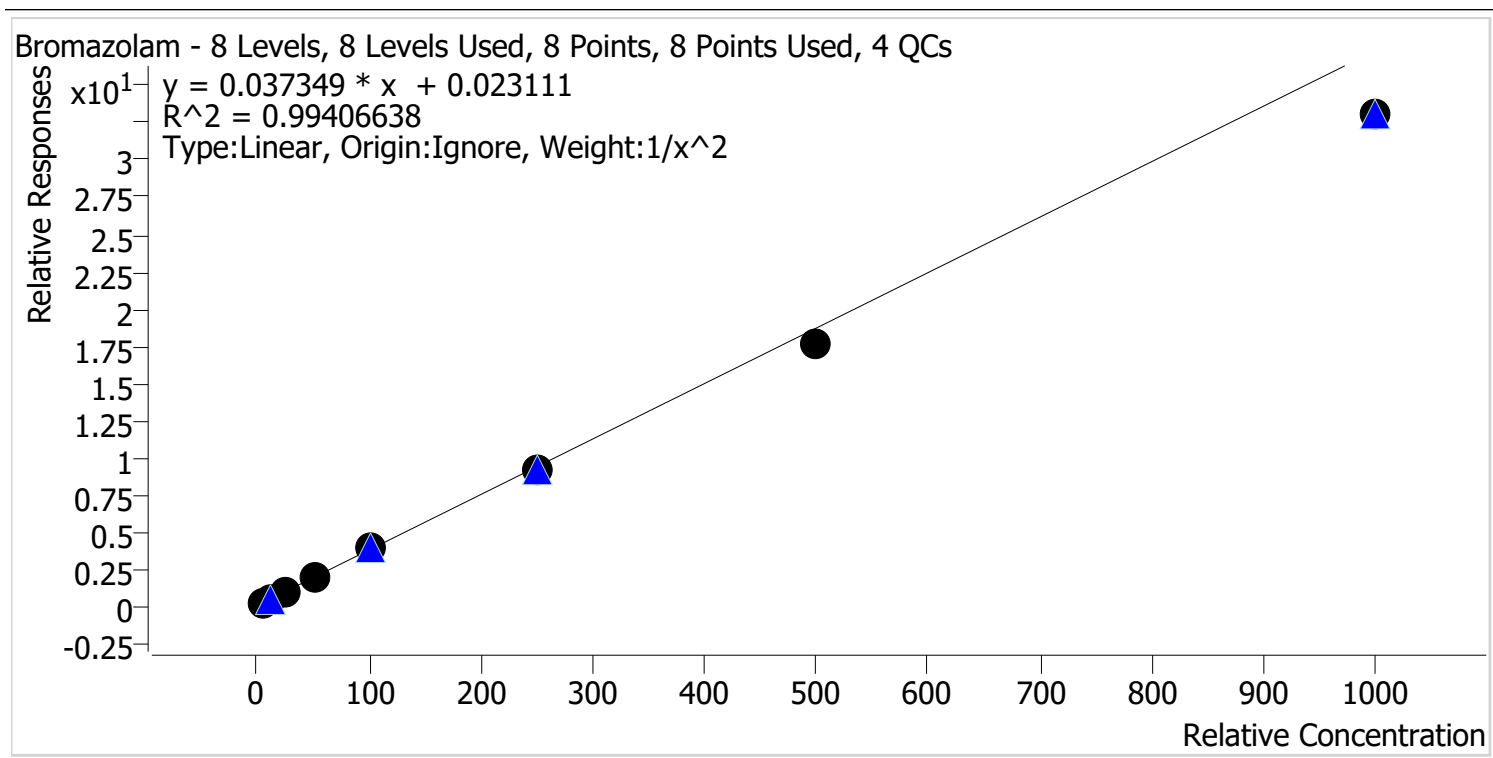
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2-10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.7
p1 Cal 4-50ng	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	492.8	98.6
p1 Cal 8-1000ng	8	✓	1000.0	953.8	95.4

29



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Bromazolam **Internal Standard** Bromazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2-10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.7
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	470.4	94.1
p1 Cal 8-1000ng	8	✓	1000.0	884.5	88.5

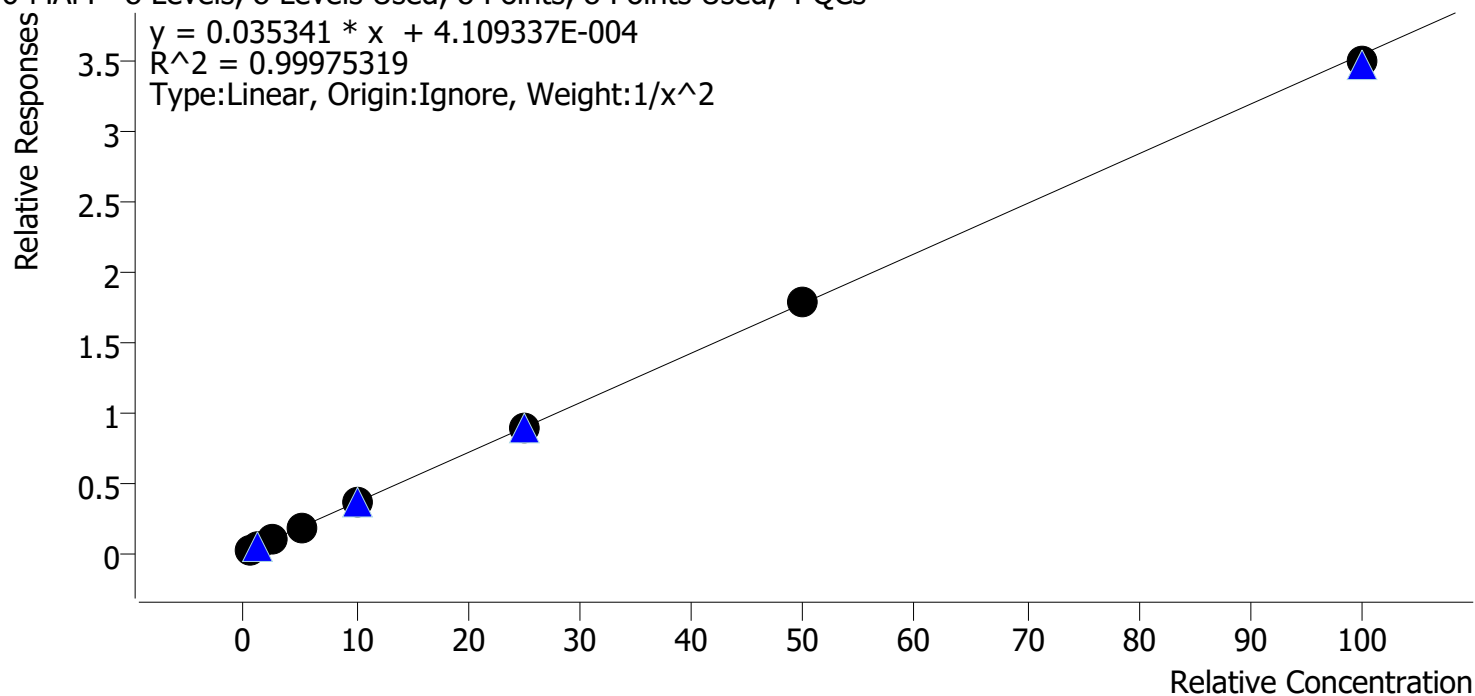
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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

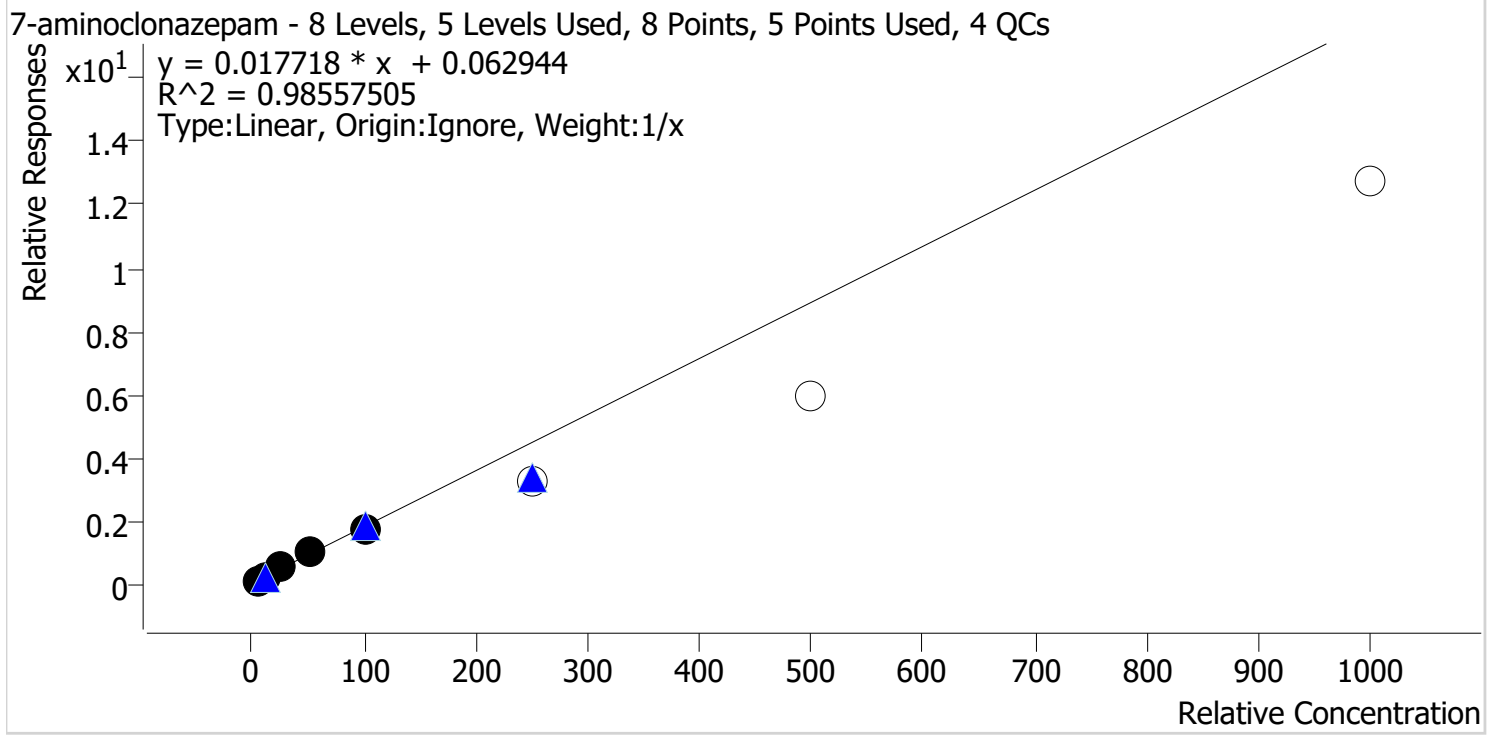


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.7
p1 Cal 2-10ng	2	✓	1.0	1.0	102.7
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.2
p1 Cal 4-50ng	4	✓	5.0	5.0	100.0
p1 Cal 5-100ng	5	✓	10.0	9.9	99.0
p1 Cal 6-250ng	6	✓	25.0	25.0	100.0
p1 Cal 7-500ng	7	✓	50.0	50.4	100.9
p1 Cal 8-1000ng	8	✓	100.0	98.6	98.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam Internal Standard 7-Aminoclonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.7	74.1
p1 Cal 2-10ng	2	✓	10.0	11.0	109.8
p1 Cal 3 -25ng	3	✓	25.0	29.4	117.4
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	93.3	93.3
p1 Cal 6-250ng	6	✗	250.0	178.4	71.3
p1 Cal 7-500ng	7	✗	500.0	331.9	66.4
p1 Cal 8-1000ng	8	✗	1000.0	718.4	71.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

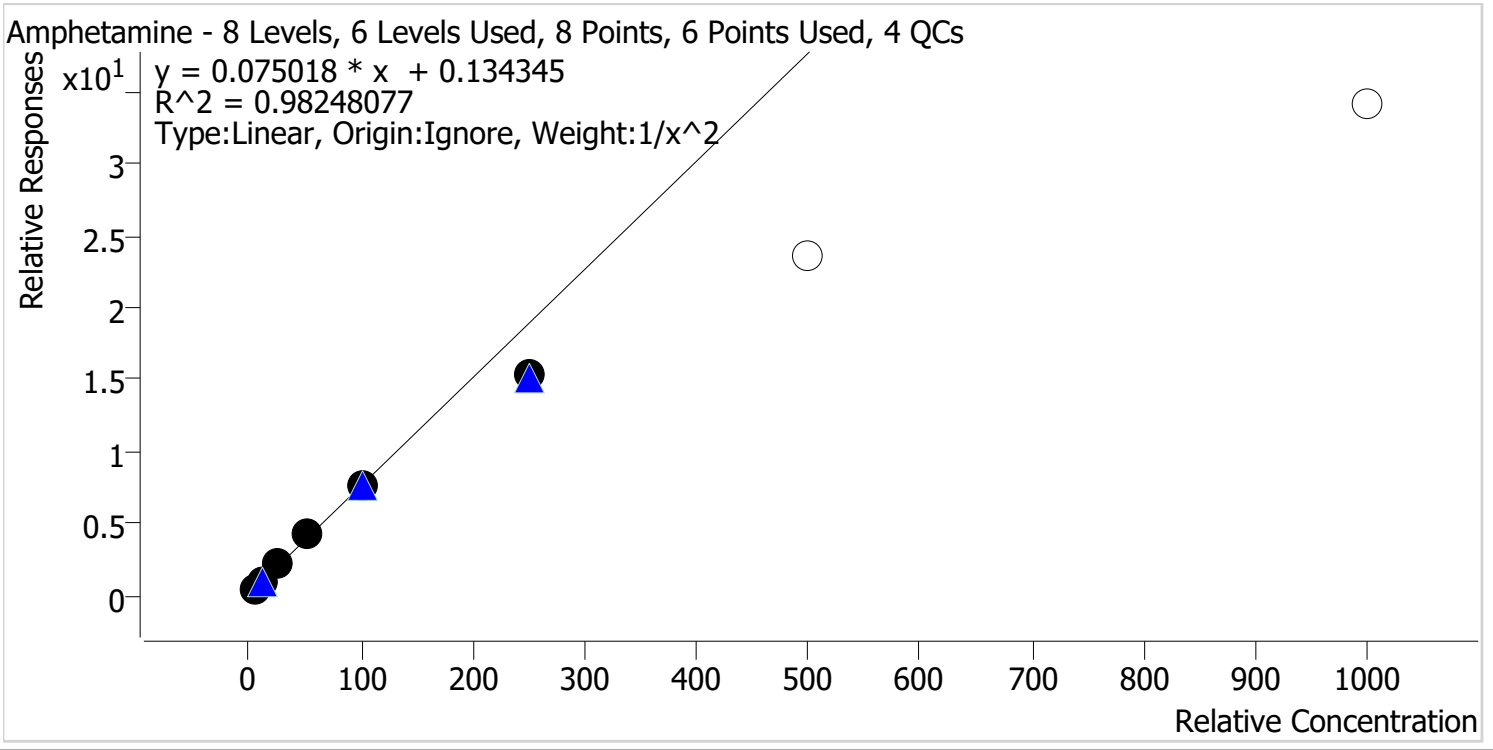
12/9/2024 12:49 PM

ISP\datastor

Amphetamine

Internal Standard

Amphetamine-D11



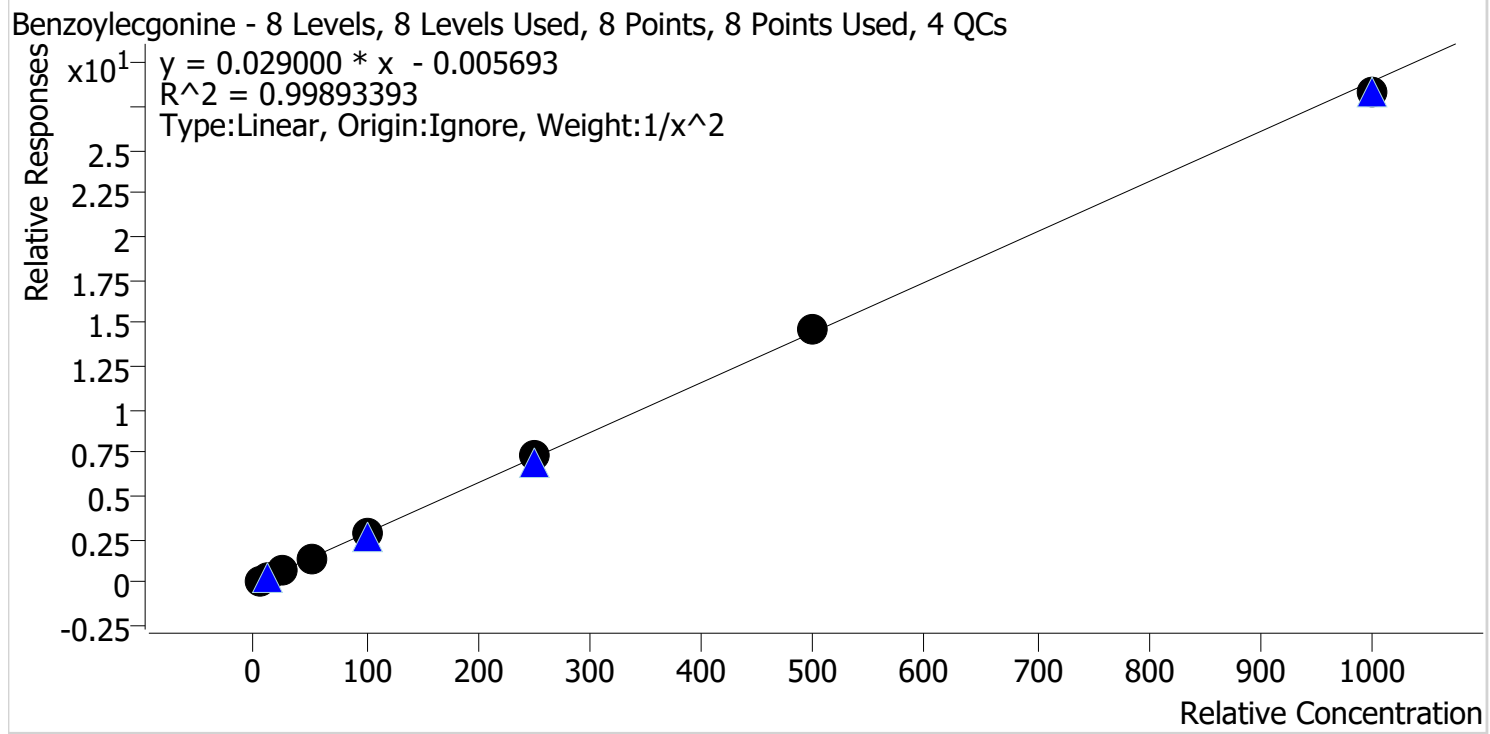
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2-10ng	2	✓	10.0	10.5	105.3
p1 Cal 3 -25ng	3	✓	25.0	27.3	109.3
p1 Cal 4-50ng	4	✓	50.0	54.9	109.8
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	202.8	81.1
p1 Cal 7-500ng	7	✗	500.0	311.5	62.3
p1 Cal 8-1000ng	8	✗	1000.0	454.7	45.5

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



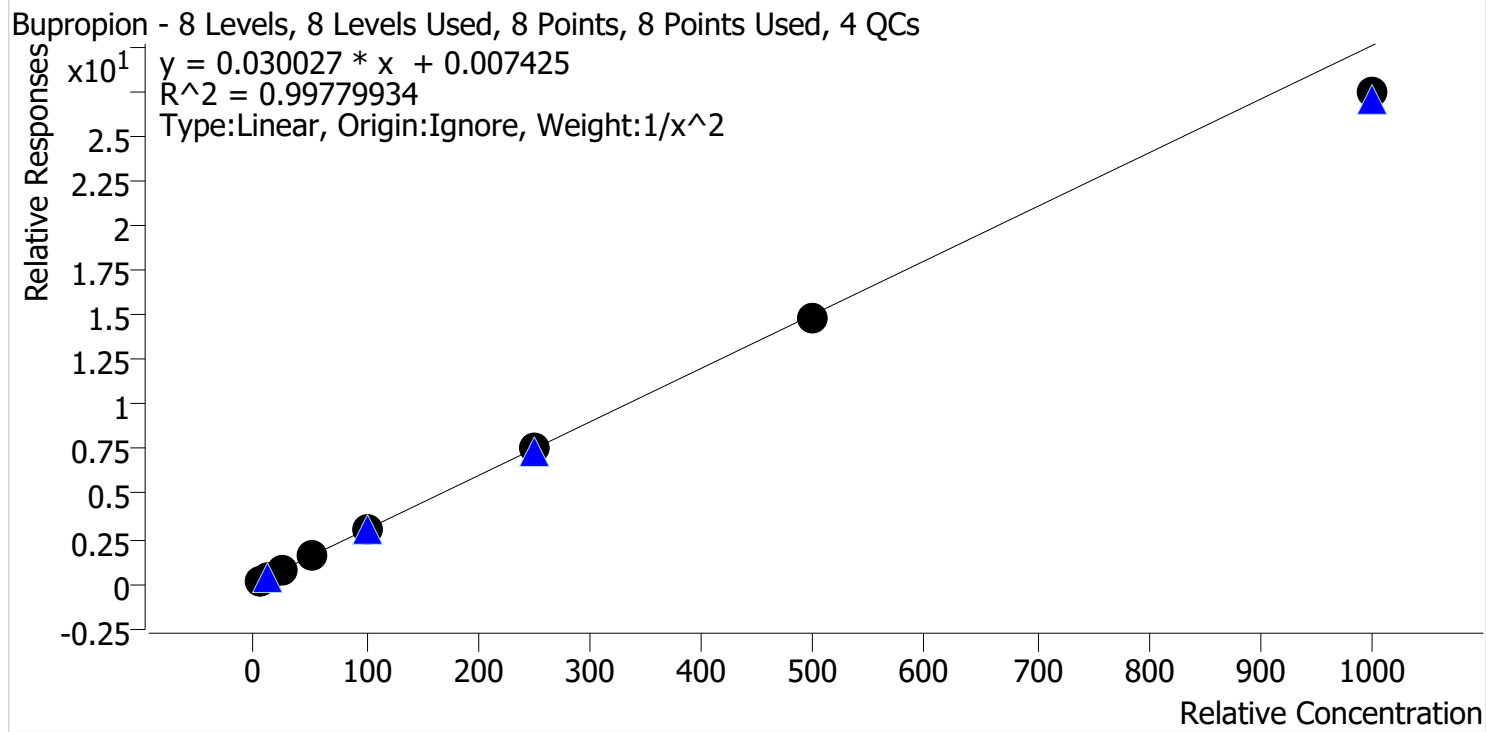
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2-10ng	2	✓	10.0	9.6	96.1
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	51.3	102.7
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	507.0	101.4
p1 Cal 8-1000ng	8	✓	1000.0	977.6	97.8

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



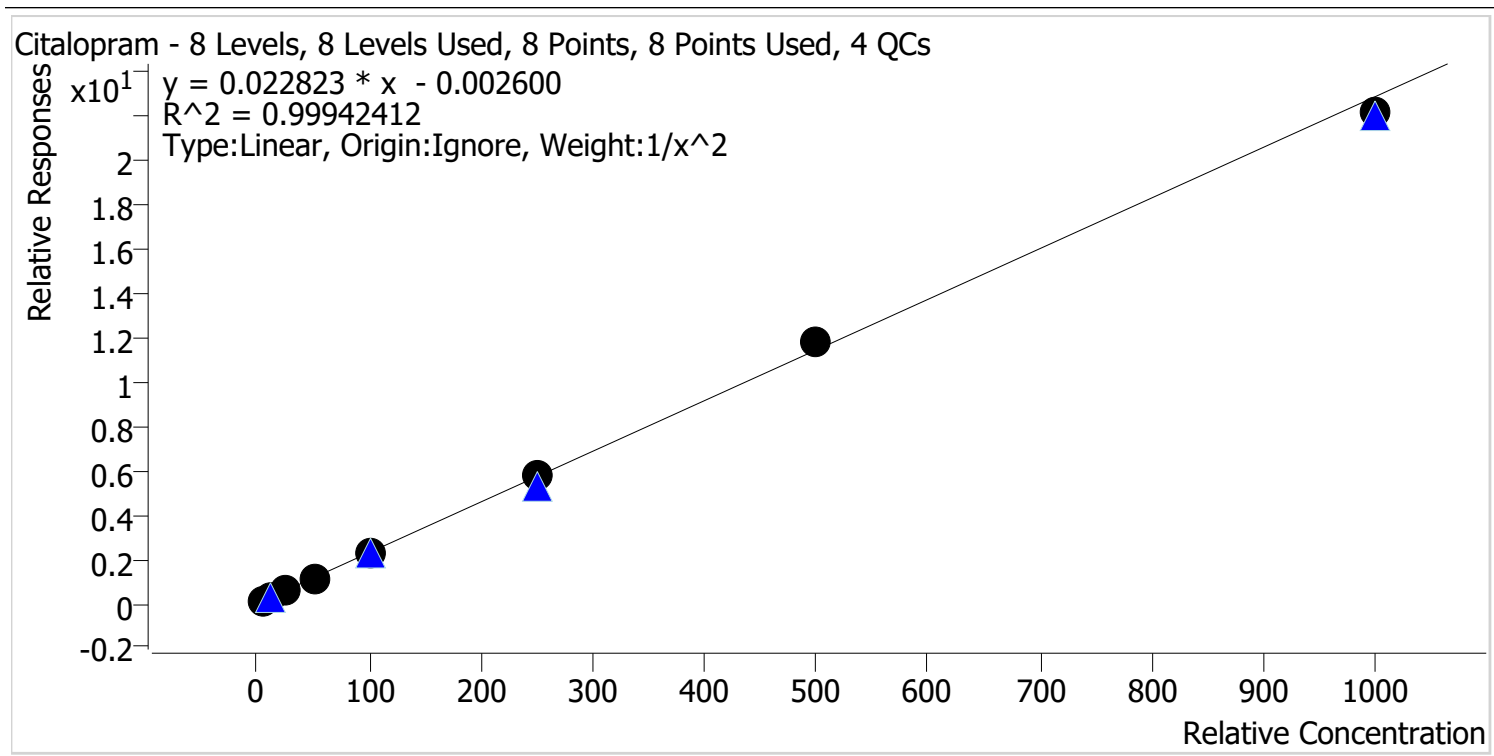
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2-10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.9
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	253.3	101.3
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	912.4	91.2

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
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	100.2
p1 Cal 2-10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	518.0	103.6
p1 Cal 8-1000ng	8	✓	1000.0	968.6	96.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

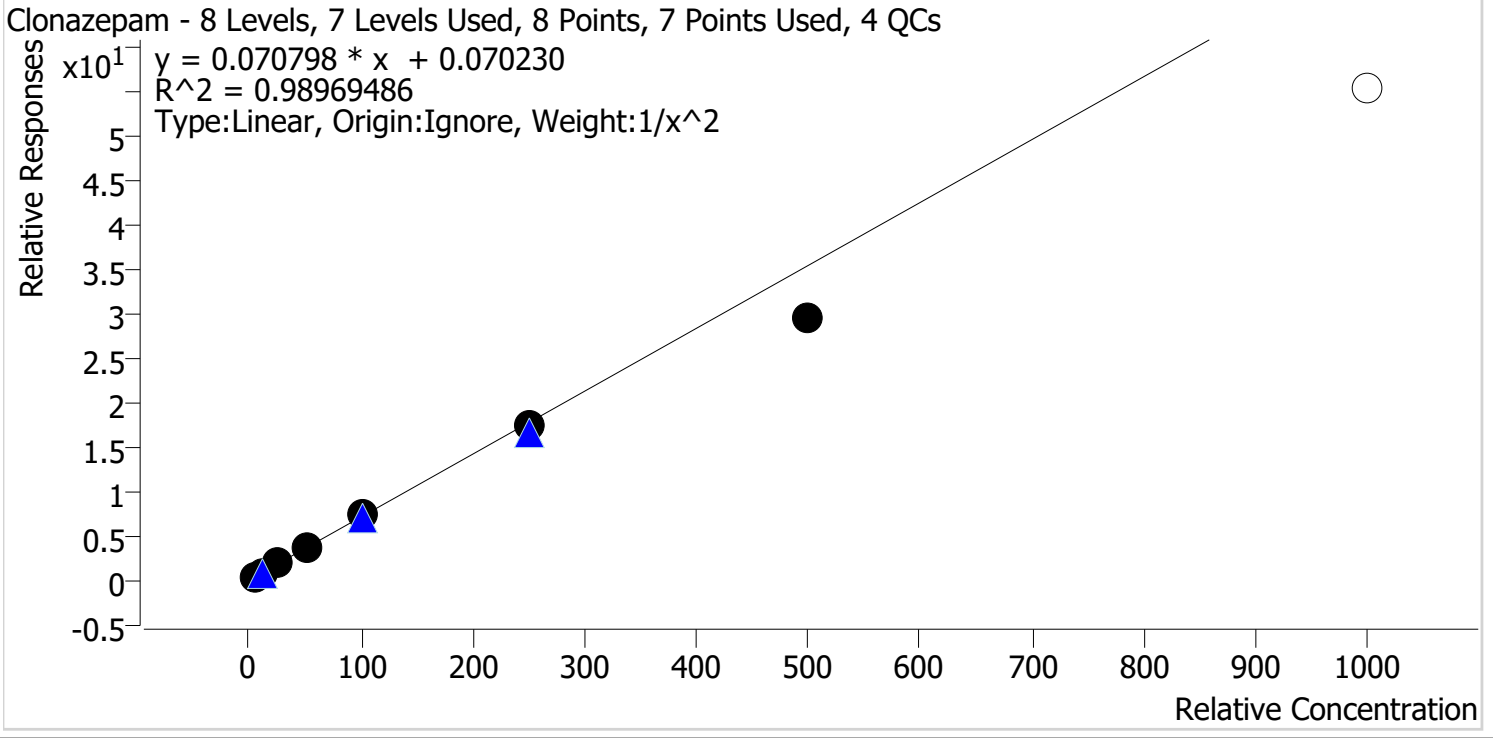
12/9/2024 12:49 PM

ISP\datastor

Clonazepam

Internal Standard

Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2-10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	27.4	109.8
p1 Cal 4-50ng	4	✓	50.0	53.7	107.4
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	244.5	97.8
p1 Cal 7-500ng	7	✓	500.0	418.2	83.6
p1 Cal 8-1000ng	8	✗	1000.0	781.2	78.1

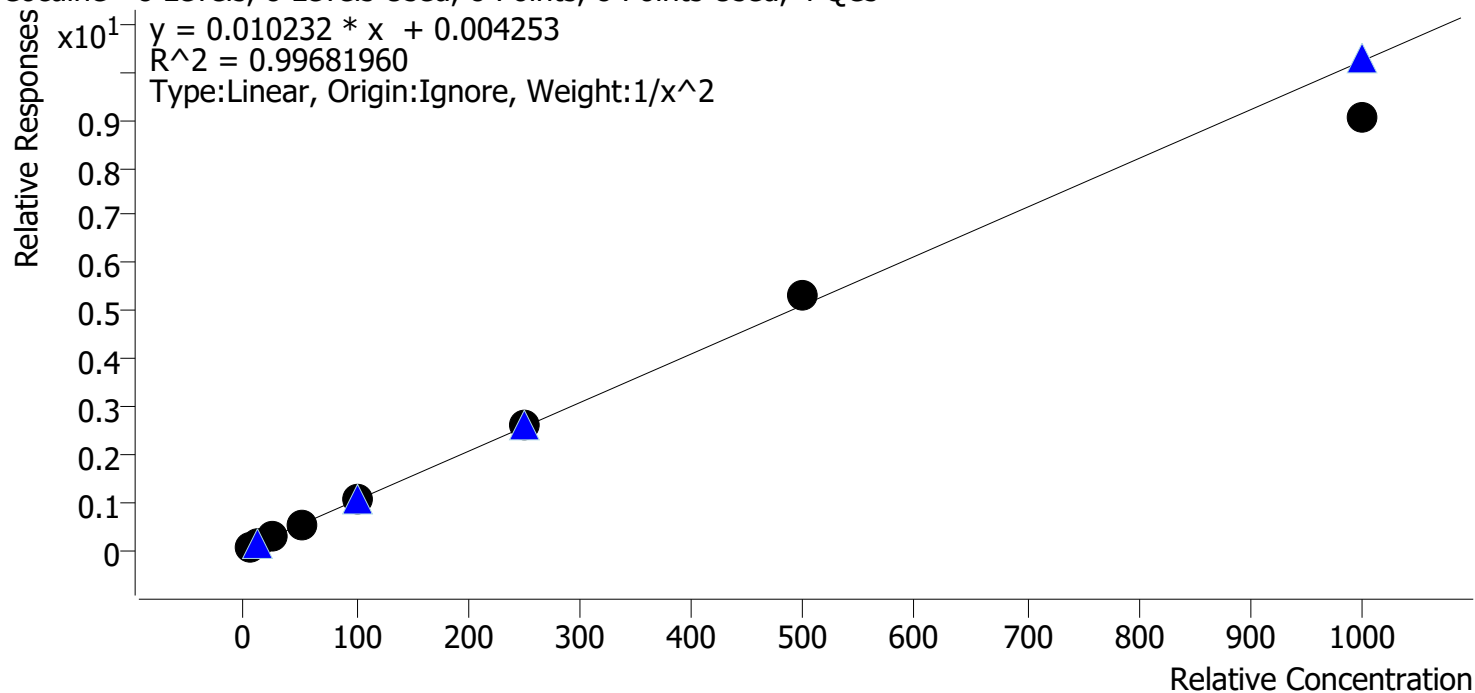
29



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2-10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	519.2	103.8
p1 Cal 8-1000ng	8	✓	1000.0	887.7	88.8

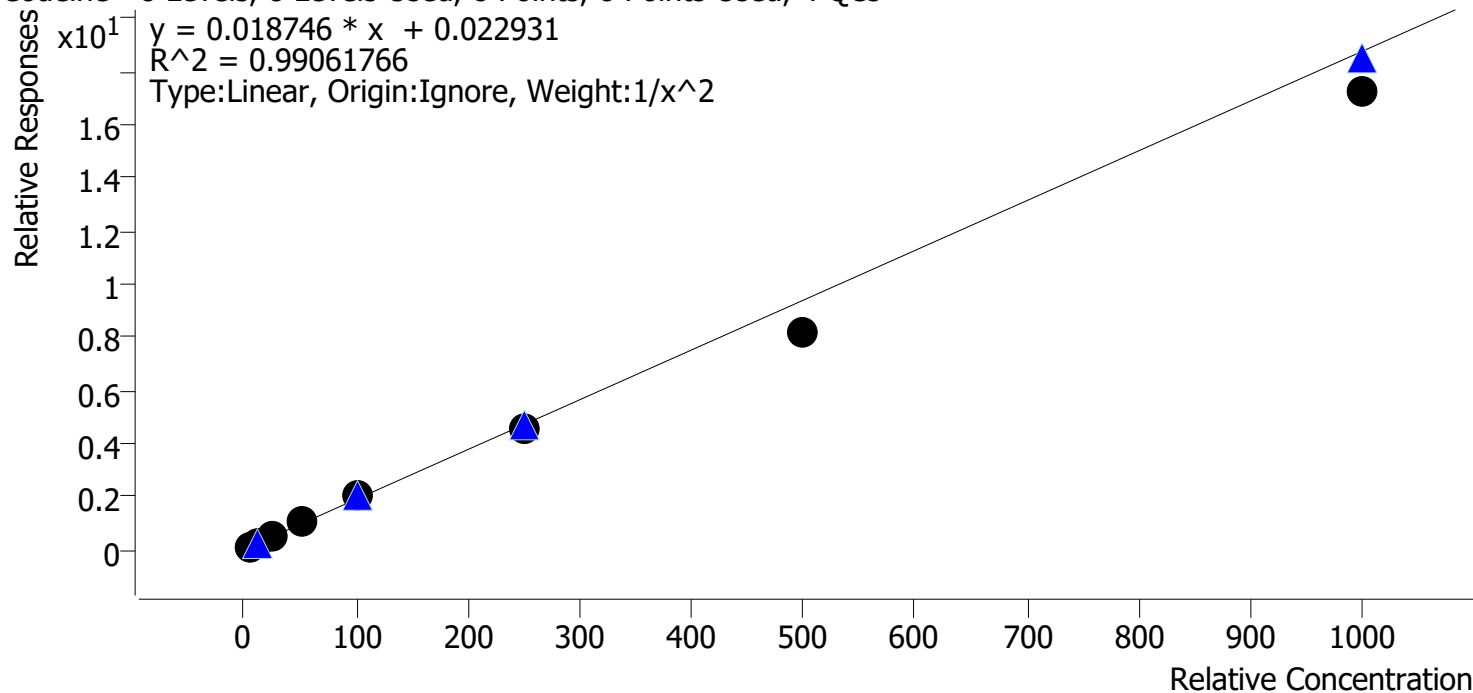
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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



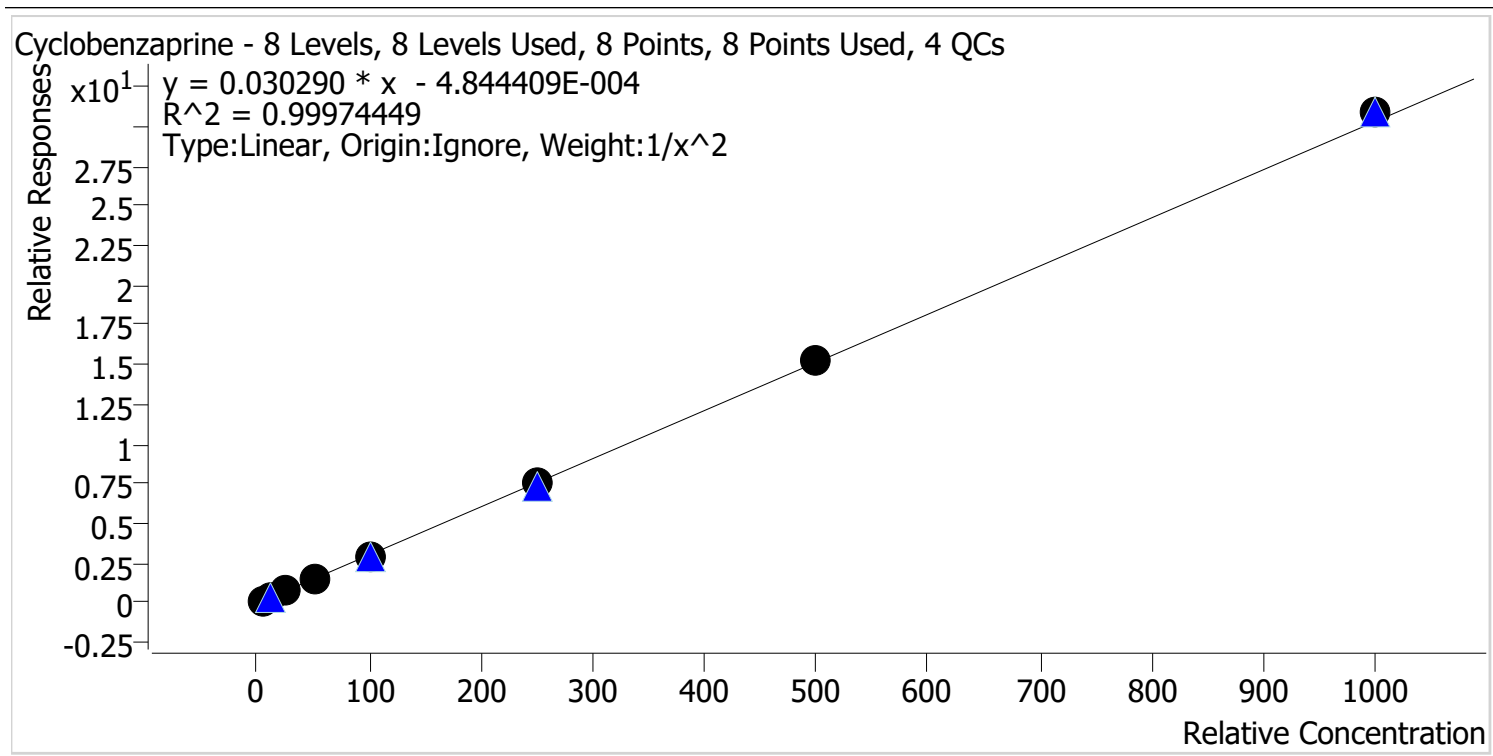
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.6
p1 Cal 2-10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	55.1	110.2
p1 Cal 5-100ng	5	✓	100.0	106.6	106.6
p1 Cal 6-250ng	6	✓	250.0	243.9	97.5
p1 Cal 7-500ng	7	✓	500.0	433.0	86.6
p1 Cal 8-1000ng	8	✓	1000.0	921.7	92.2

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



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	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	49.1	98.3
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	253.6	101.4
p1 Cal 7-500ng	7	✓	500.0	503.8	100.8
p1 Cal 8-1000ng	8	✓	1000.0	1018.6	101.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

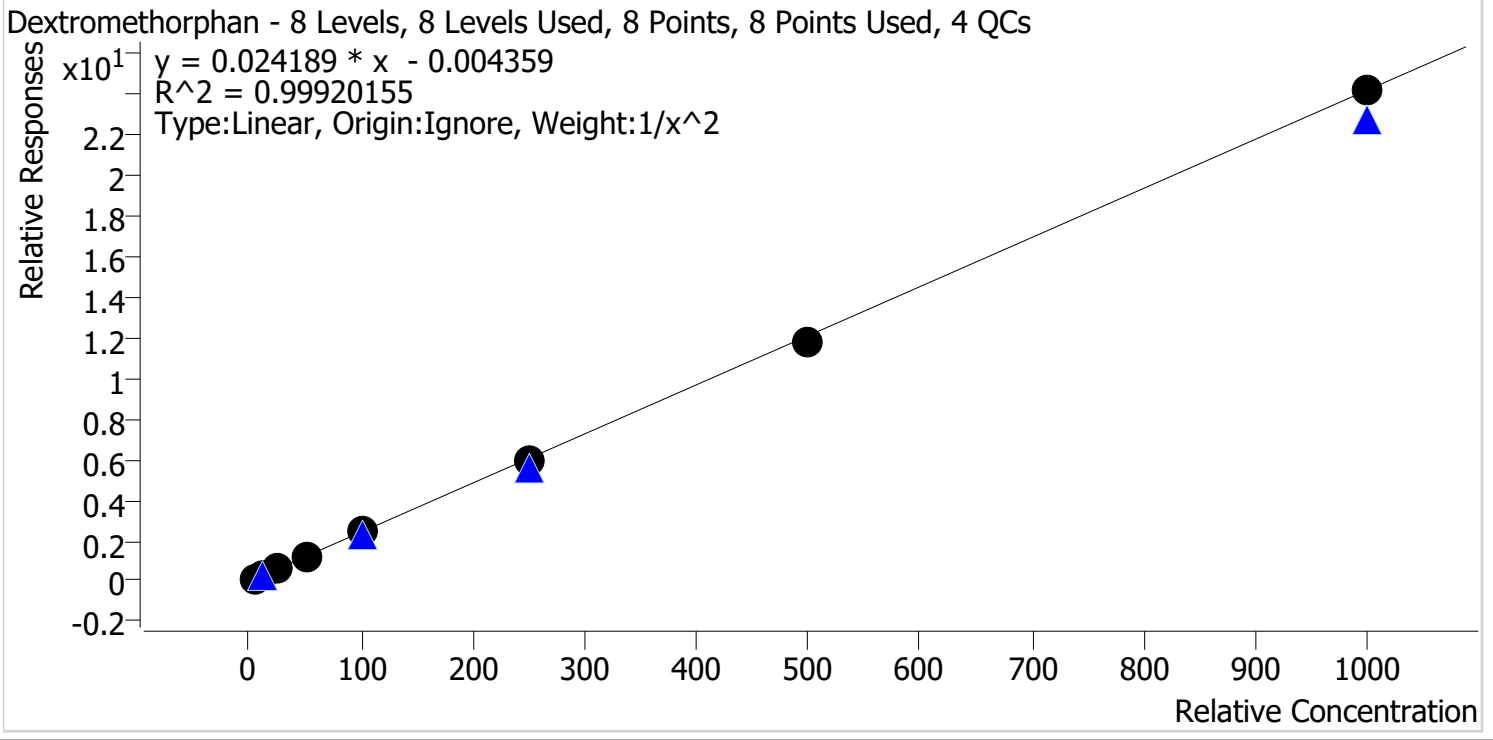
12/9/2024 12:49 PM

ISP\datastor

Dextromethorphan

Internal Standard

Dextromethorphan-D3



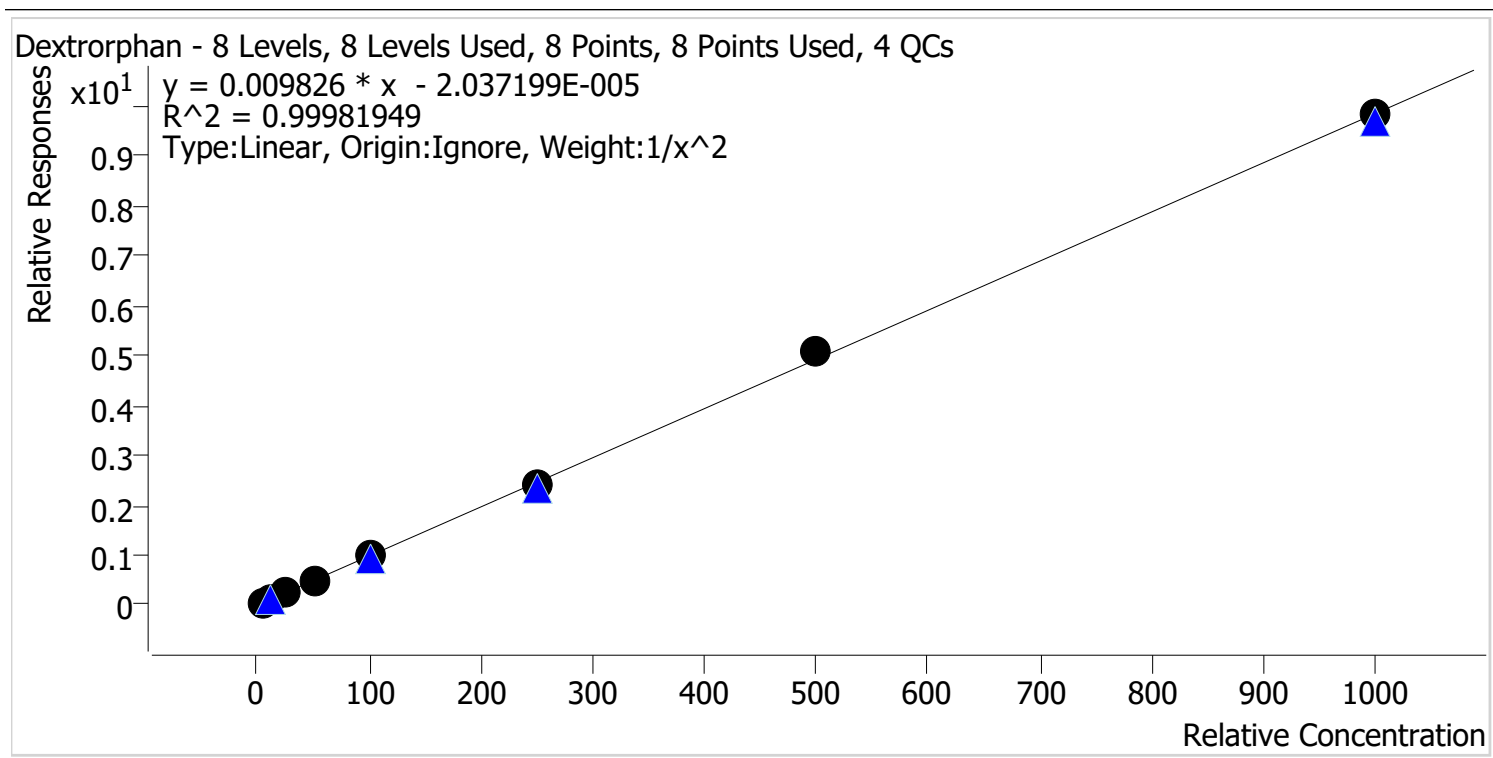
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2-10ng	2	✓	10.0	9.8	98.4
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	247.0	98.8
p1 Cal 7-500ng	7	✓	500.0	483.3	96.7
p1 Cal 8-1000ng	8	✓	1000.0	999.2	99.9

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3



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	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	513.6	102.7
p1 Cal 8-1000ng	8	✓	1000.0	998.0	99.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

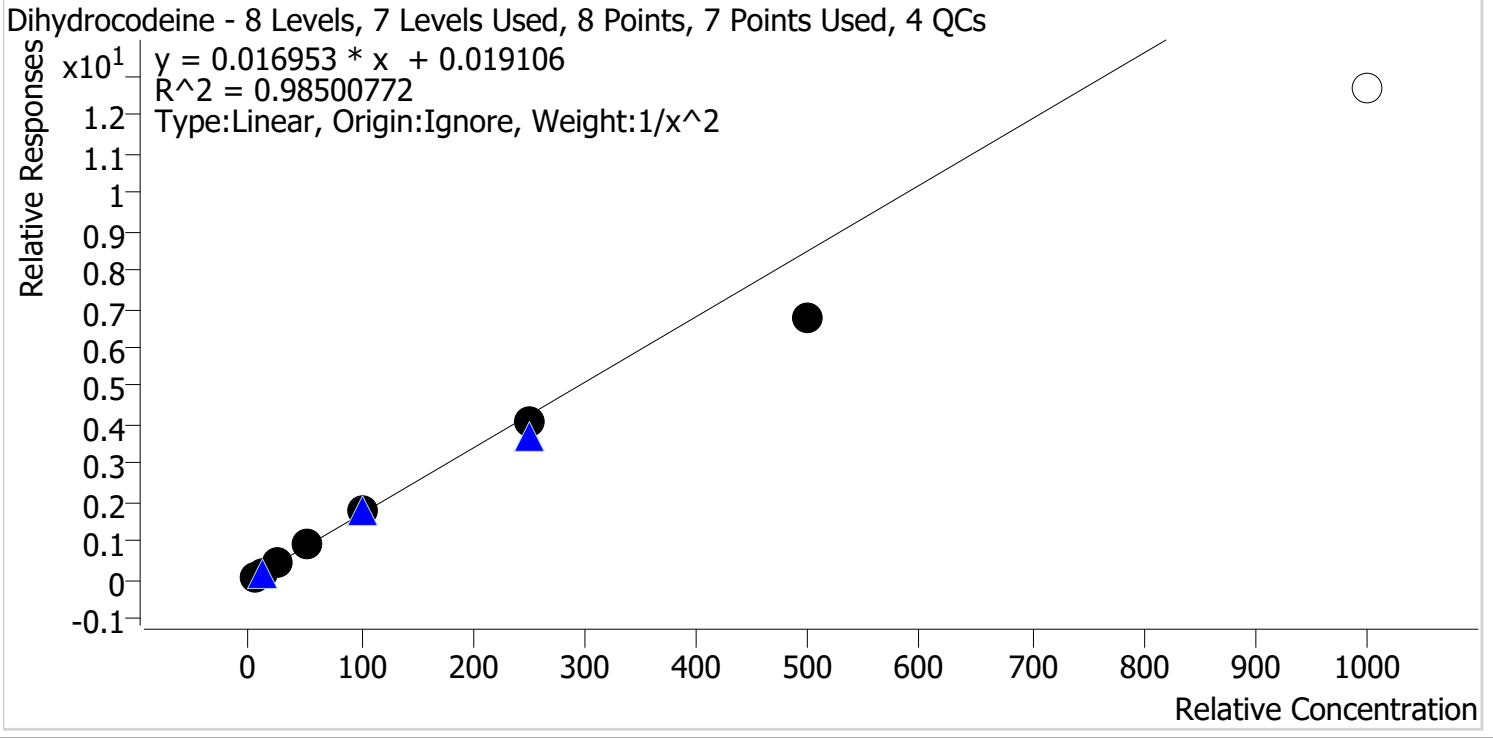
12/9/2024 12:49 PM

ISP\datastor

Dihydrocodeine

Internal Standard

Dihydrocodeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.4
p1 Cal 2-10ng	2	✓	10.0	10.7	106.9
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	54.1	108.2
p1 Cal 5-100ng	5	✓	100.0	107.9	107.9
p1 Cal 6-250ng	6	✓	250.0	241.7	96.7
p1 Cal 7-500ng	7	✓	500.0	400.1	80.0
p1 Cal 8-1000ng	8	✗	1000.0	746.2	74.6

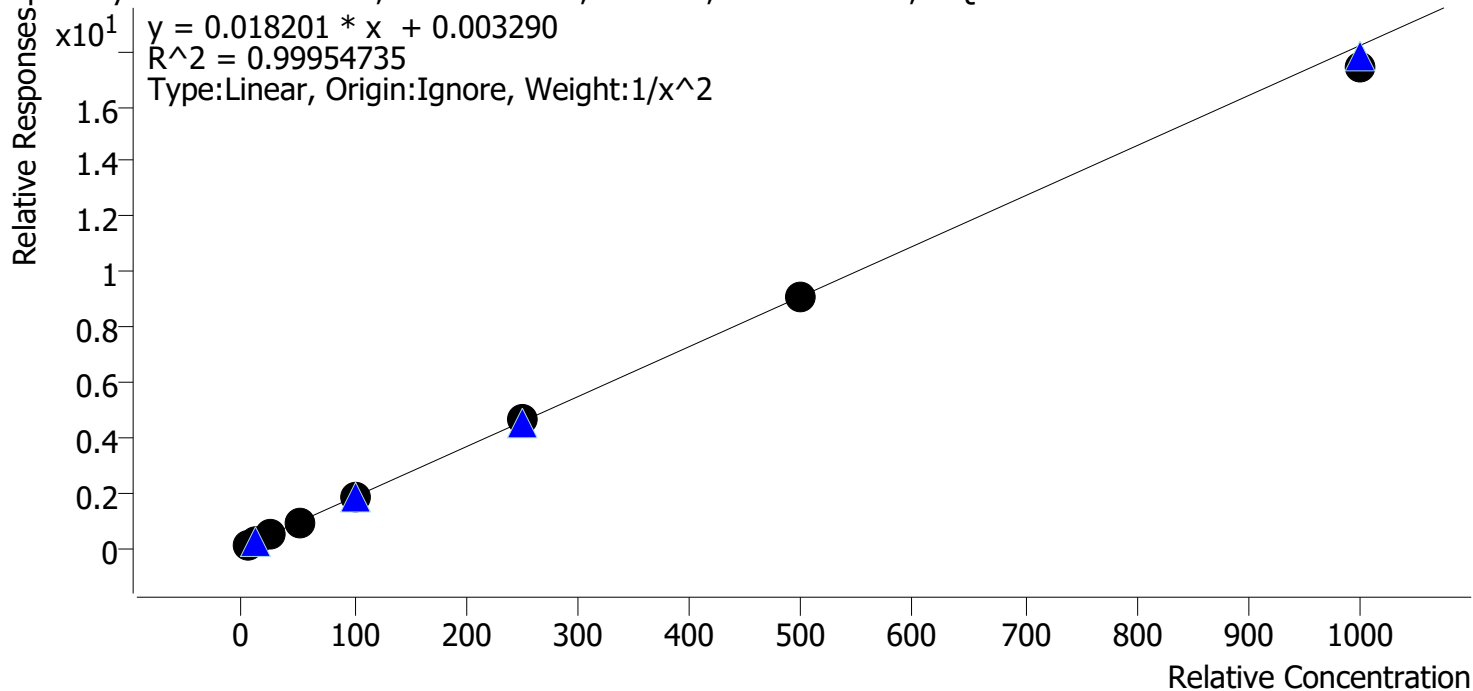
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2-10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	499.8	100.0
p1 Cal 8-1000ng	8	✓	1000.0	959.1	95.9

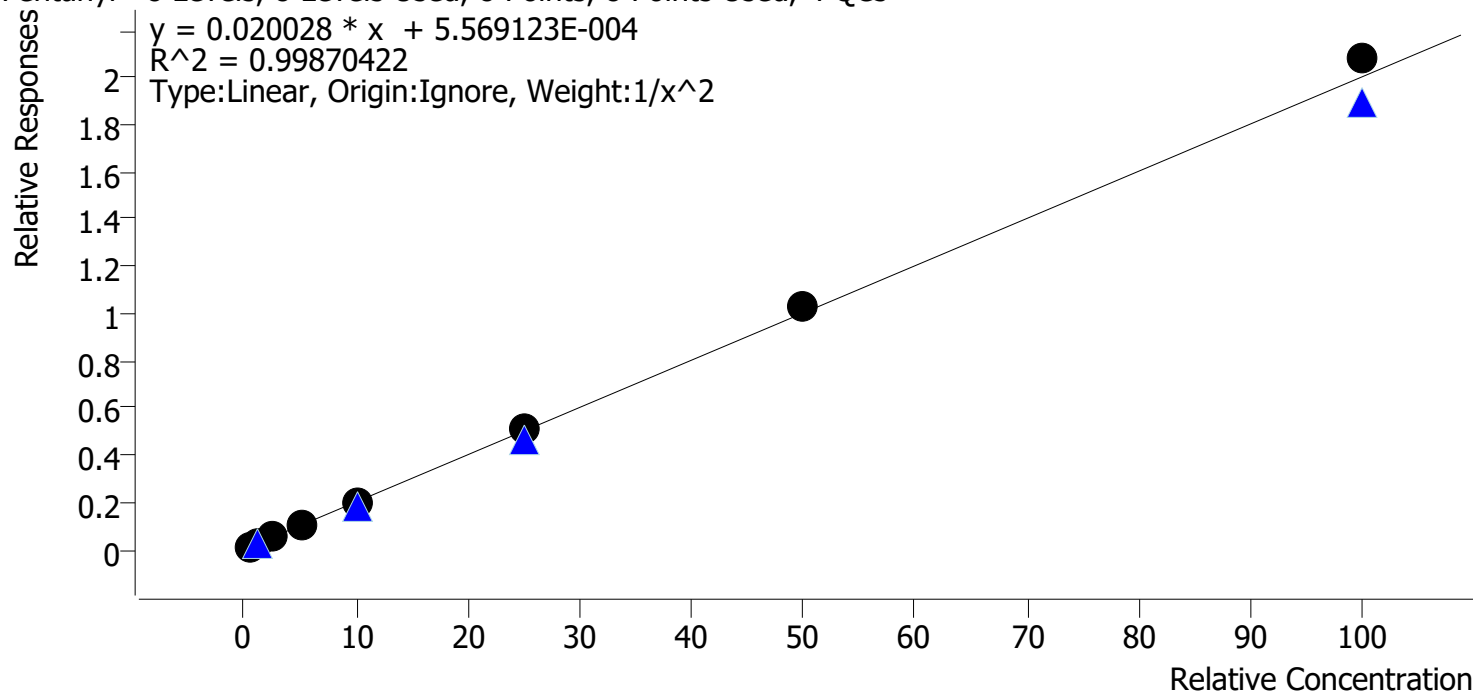
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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



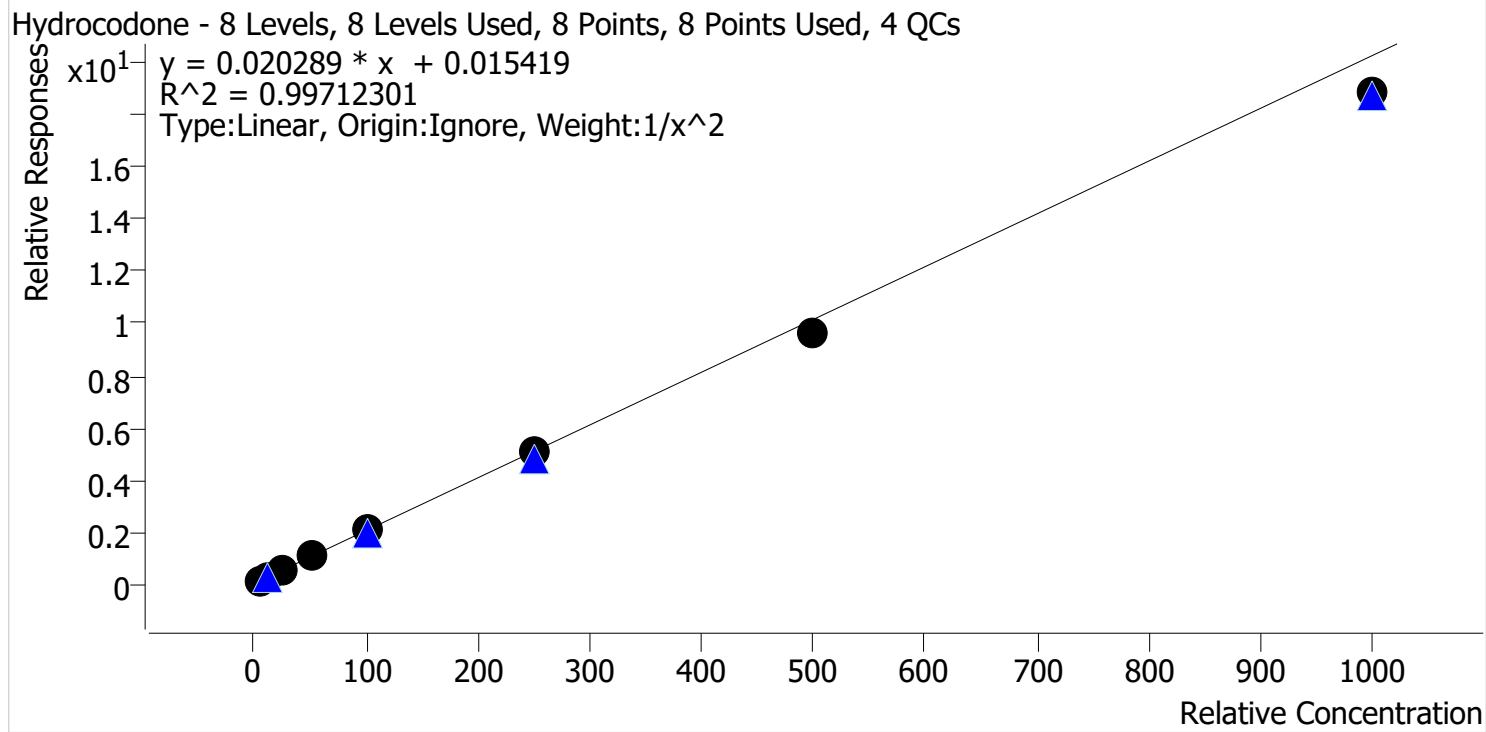
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.7
p1 Cal 2-10ng	2	✓	1.0	1.0	98.9
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.6
p1 Cal 4-50ng	4	✓	5.0	4.7	94.7
p1 Cal 5-100ng	5	✓	10.0	10.0	99.9
p1 Cal 6-250ng	6	✓	25.0	25.4	101.7
p1 Cal 7-500ng	7	✓	50.0	51.3	102.6
p1 Cal 8-1000ng	8	✓	100.0	103.9	103.9

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2-10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.4
p1 Cal 4-50ng	4	✓	50.0	53.7	107.4
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	476.1	95.2
p1 Cal 8-1000ng	8	✓	1000.0	929.9	93.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results

Last Cal. Update

Analyst Name

Analyte

D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

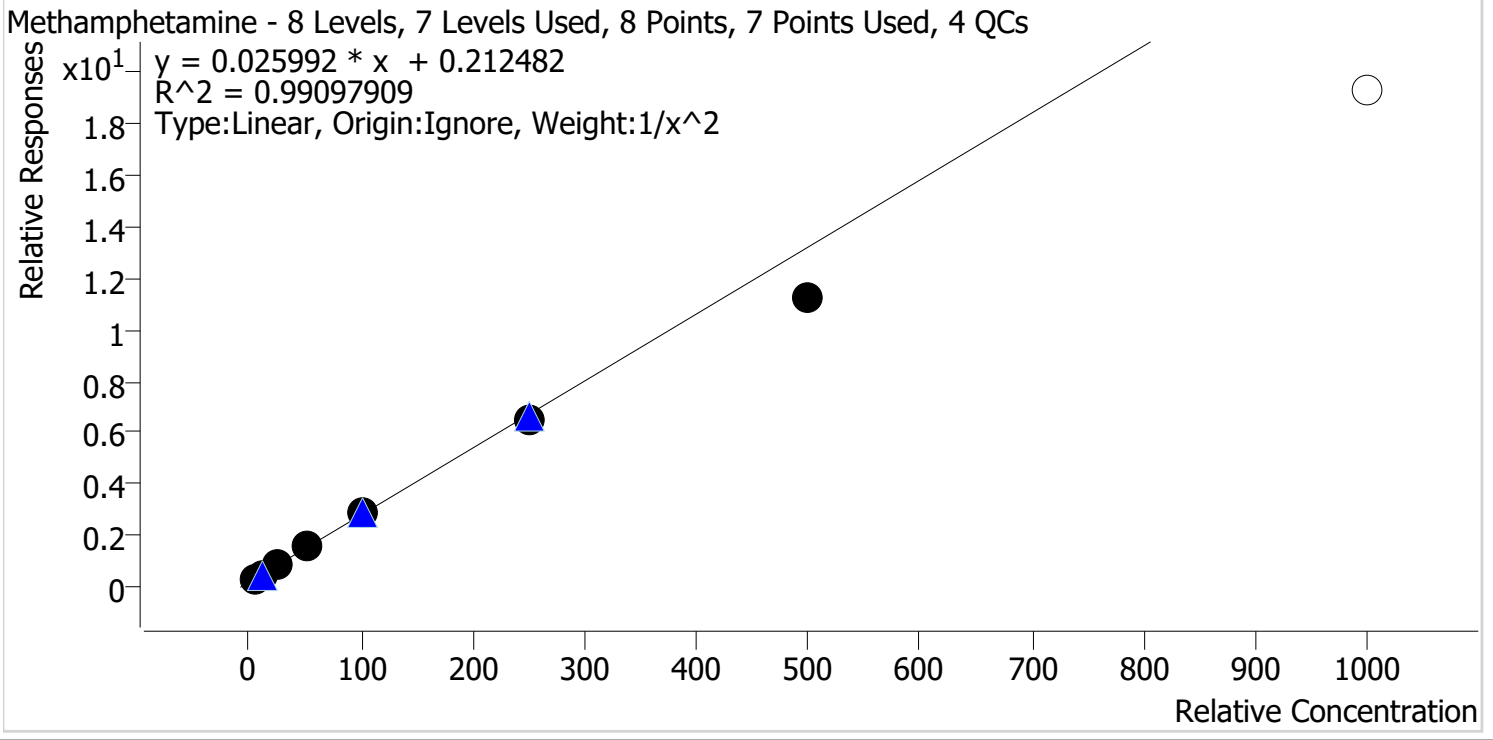
12/9/2024 12:49 PM

ISP\datastor

Methamphetamine

Internal Standard

Methamphetamine-D11

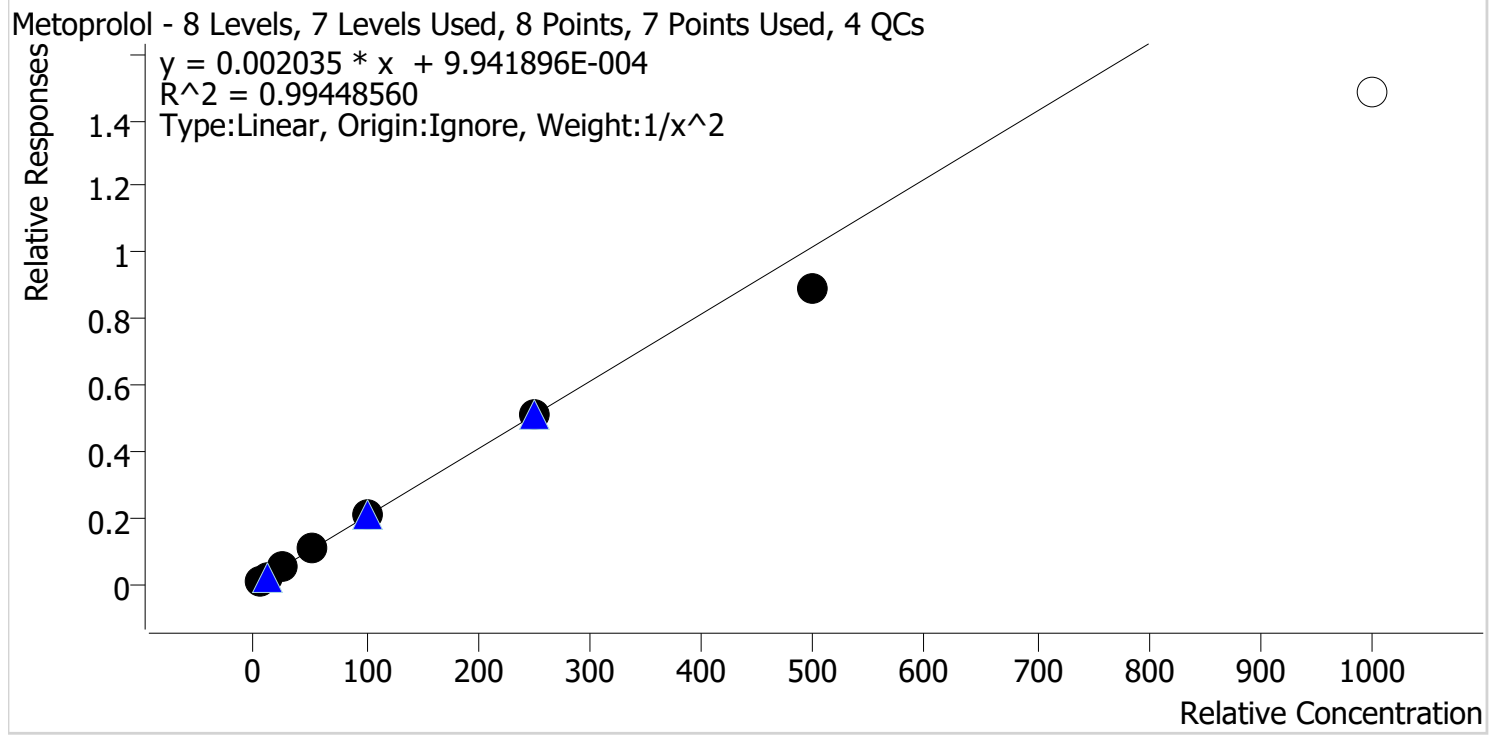


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	95.0
p1 Cal 2-10ng	2	✓	10.0	10.6	106.3
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.9
p1 Cal 4-50ng	4	✓	50.0	52.4	104.9
p1 Cal 5-100ng	5	✓	100.0	104.7	104.7
p1 Cal 6-250ng	6	✓	250.0	243.2	97.3
p1 Cal 7-500ng	7	✓	500.0	425.0	85.0
p1 Cal 8-1000ng	8	✗	1000.0	732.1	73.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Metoprolol Internal Standard Tramadol-13C-D3



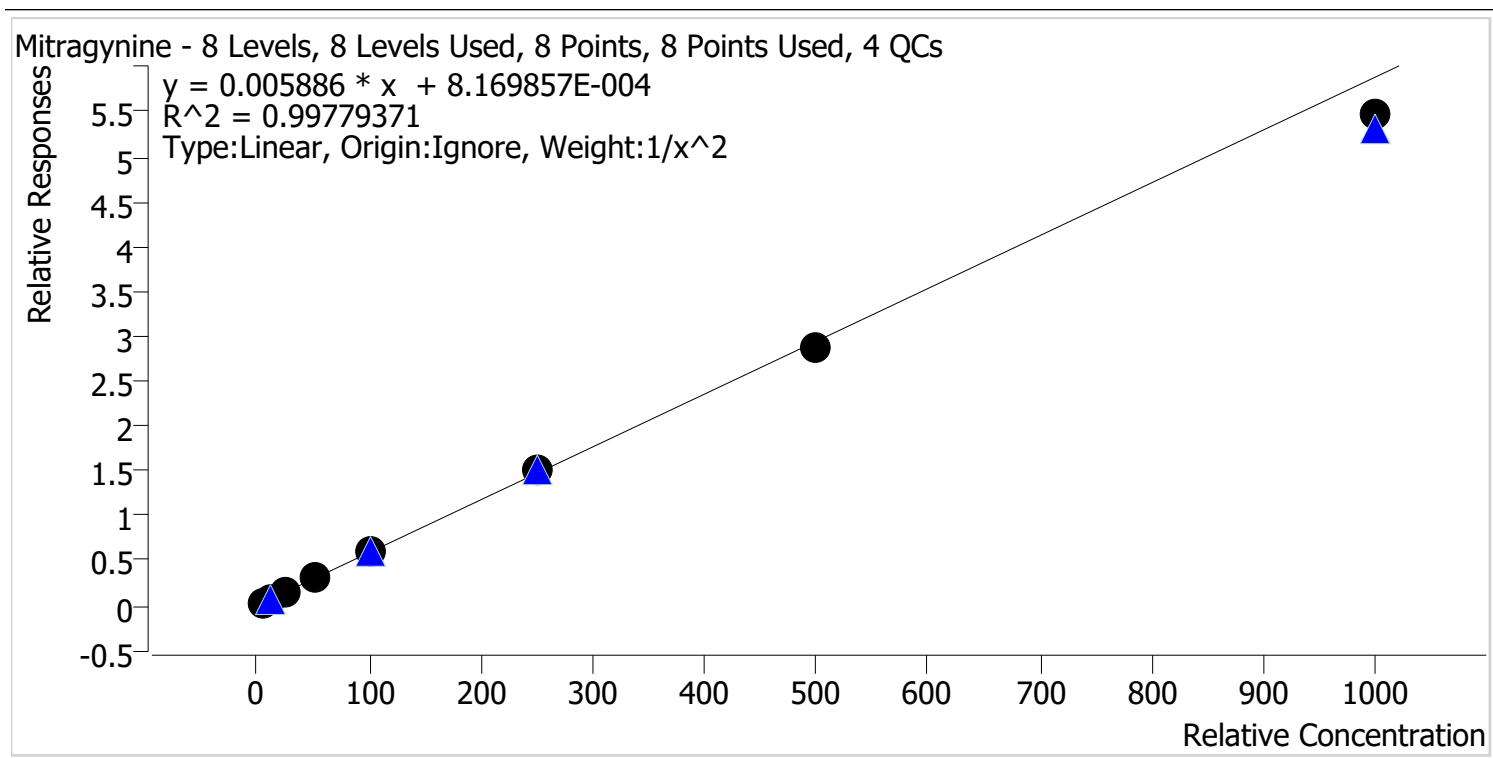
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.2
p1 Cal 2-10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	52.3	104.7
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	435.8	87.2
p1 Cal 8-1000ng	8	✗	1000.0	727.8	72.8

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9



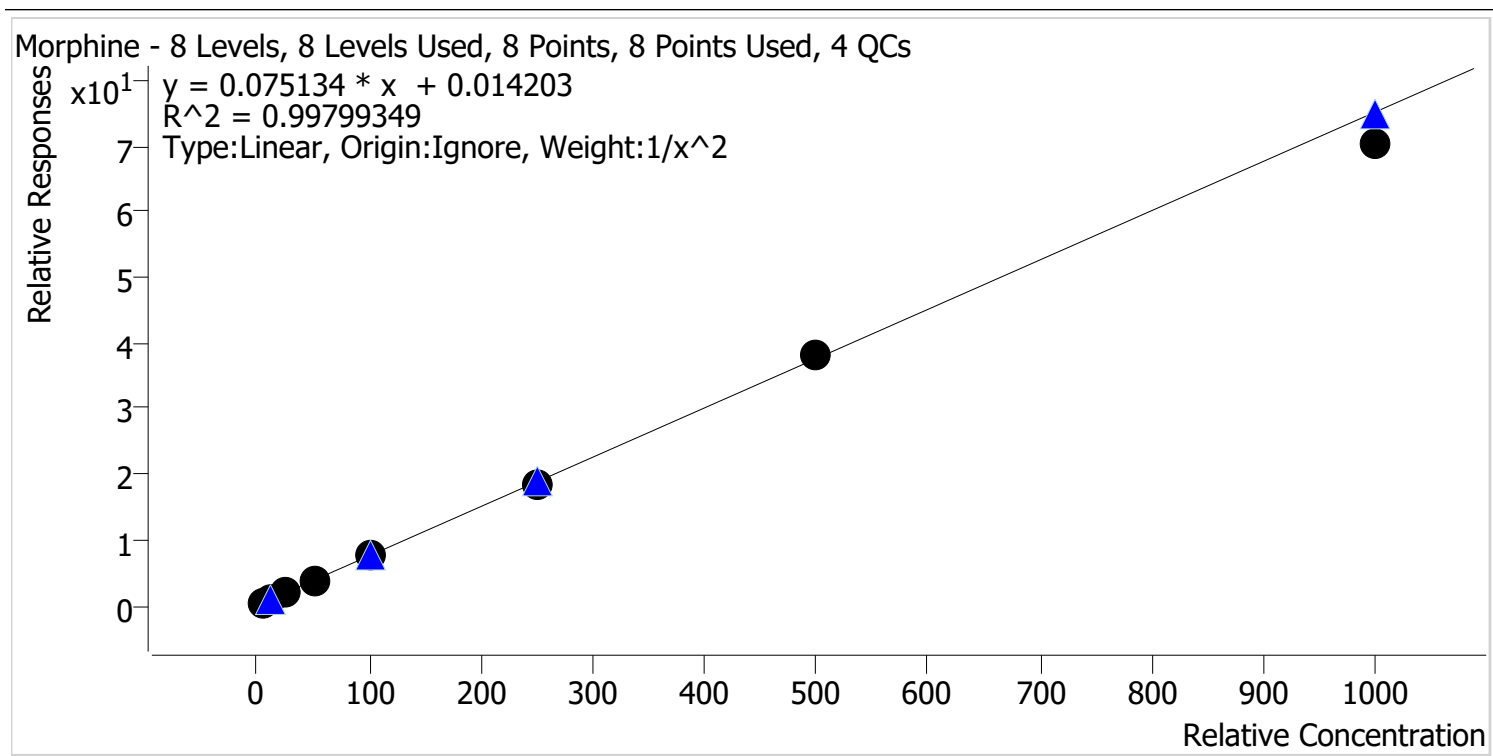
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
p1 Cal 2-10ng	2	✓	10.0	9.7	96.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	254.4	101.8
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	929.1	92.9

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



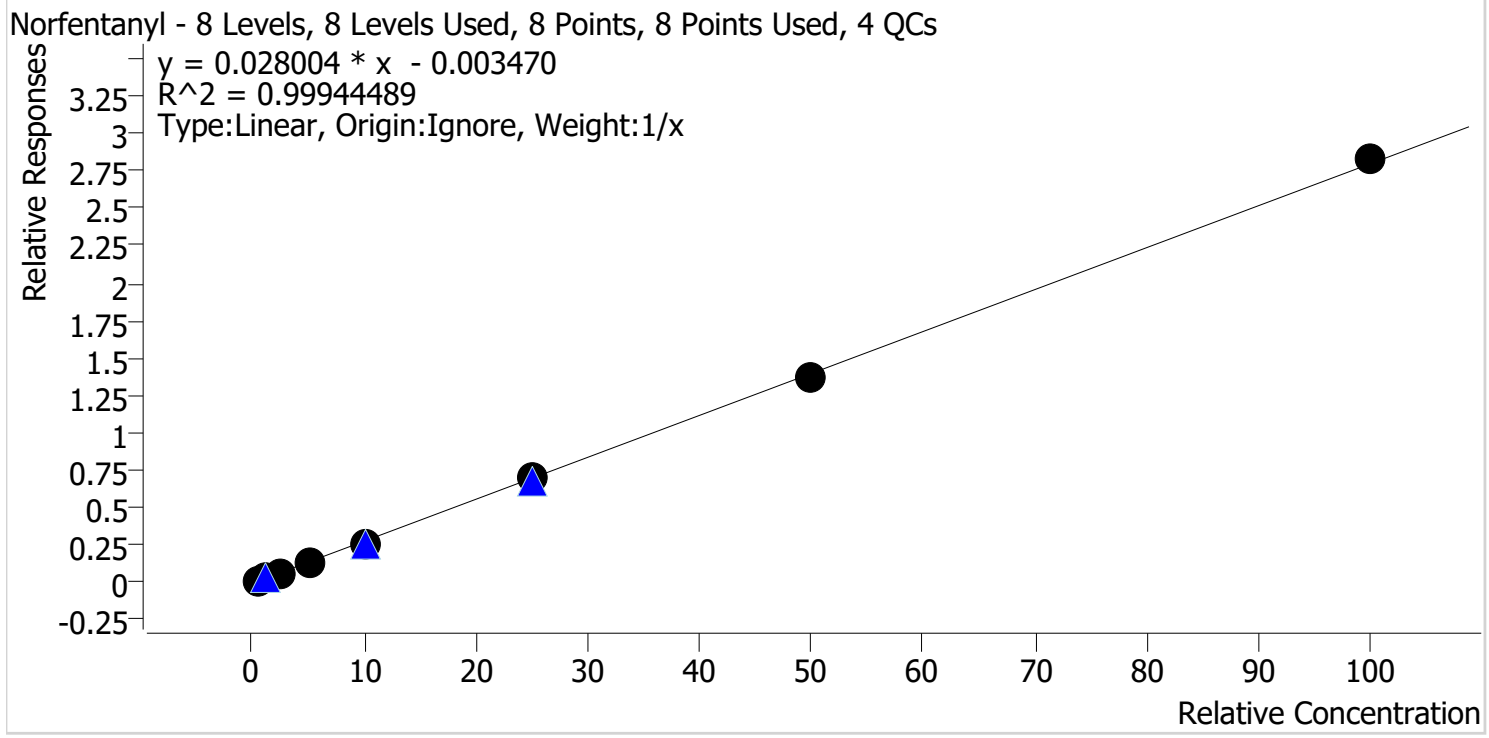
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2-10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.1
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	246.4	98.6
p1 Cal 7-500ng	7	✓	500.0	505.8	101.2
p1 Cal 8-1000ng	8	✓	1000.0	932.5	93.2

23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Norfentanyl Internal Standard Norfentanyl-D5



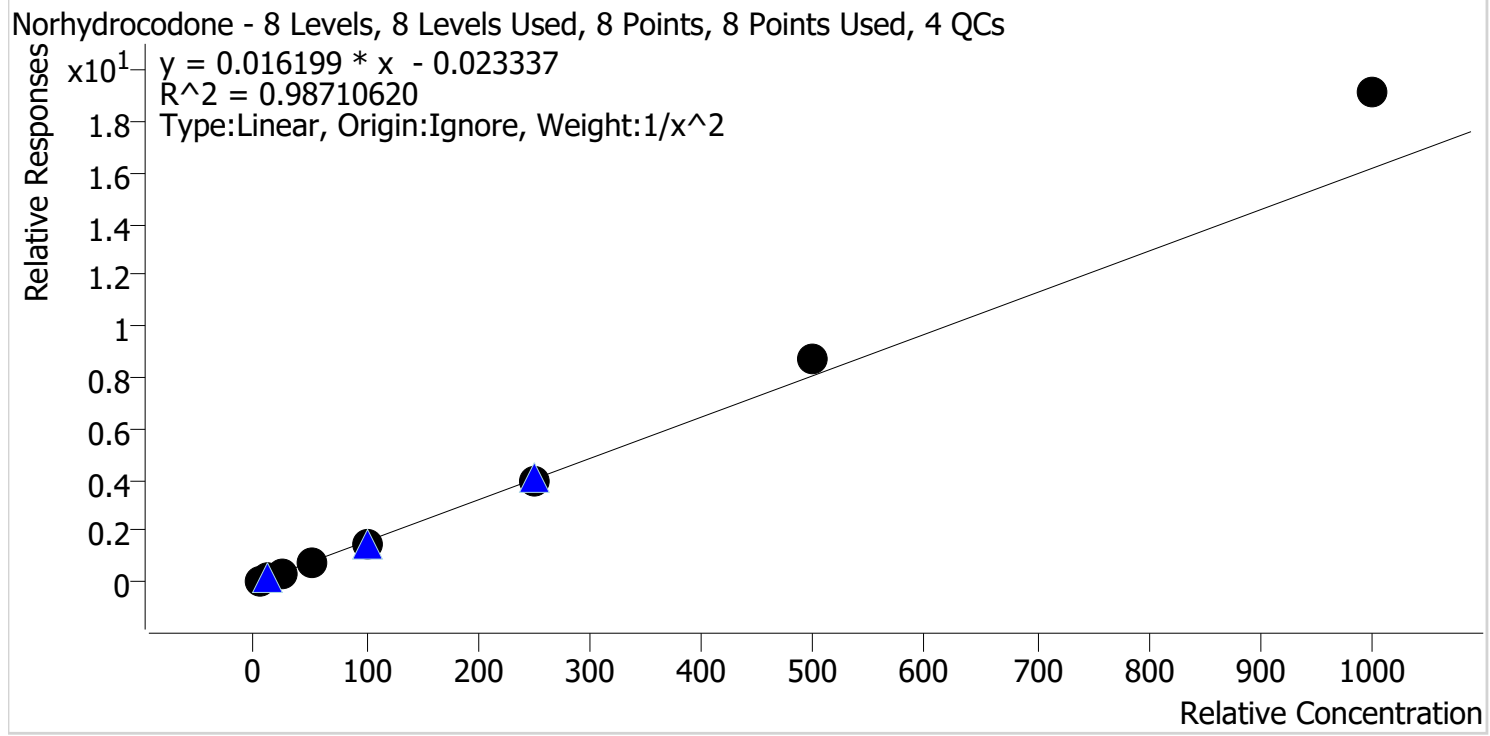
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.6	113.6
p1 Cal 2-10ng	2	✓	1.0	1.0	101.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.7
p1 Cal 4-50ng	4	✓	5.0	4.7	93.3
p1 Cal 5-100ng	5	✓	10.0	9.5	94.9
p1 Cal 6-250ng	6	✓	25.0	25.2	100.9
p1 Cal 7-500ng	7	✓	50.0	49.2	98.4
p1 Cal 8-1000ng	8	✓	100.0	101.4	101.4

29



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3



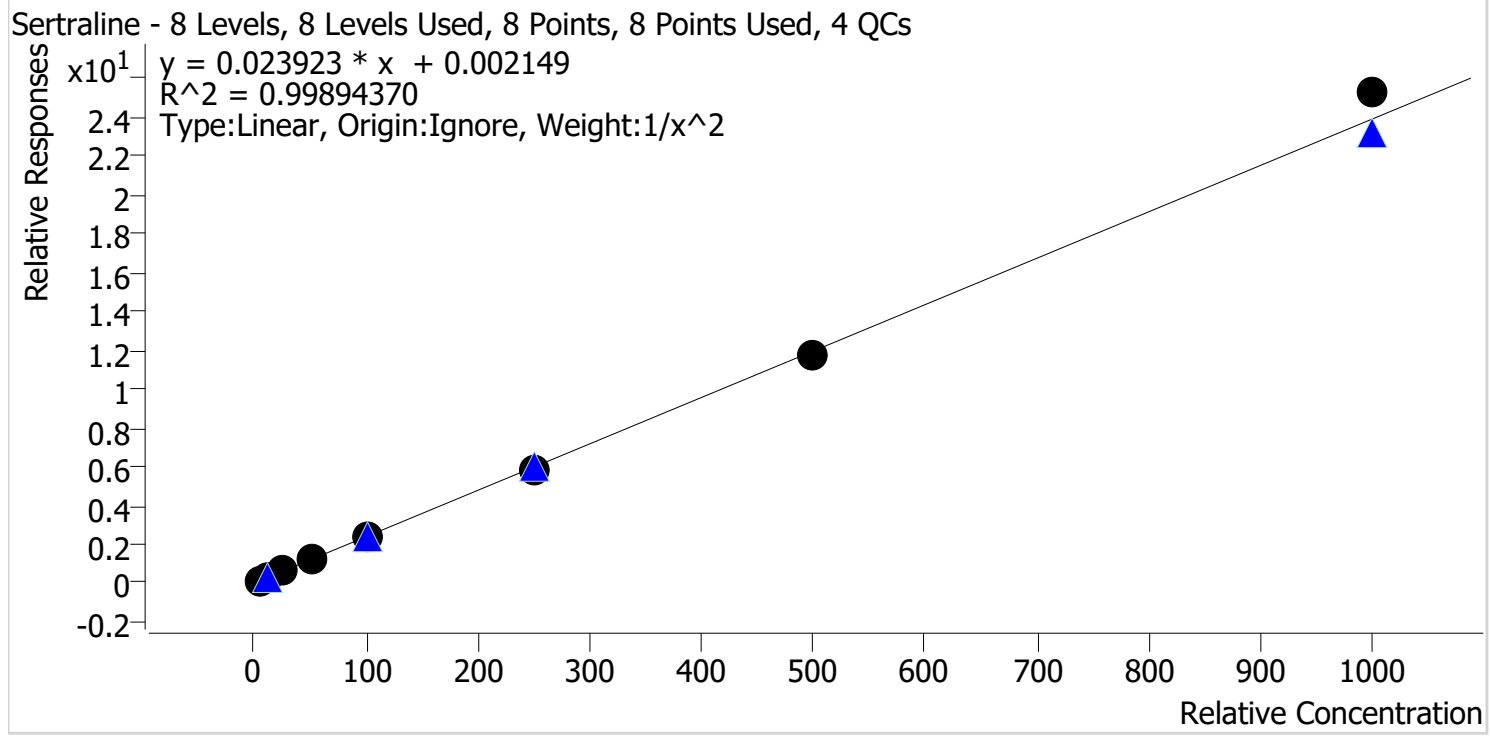
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.2
p1 Cal 2-10ng	2	✓	10.0	9.6	95.7
p1 Cal 3 -25ng	3	✓	25.0	22.8	91.2
p1 Cal 4-50ng	4	✓	50.0	44.5	88.9
p1 Cal 5-100ng	5	✓	100.0	93.4	93.4
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	540.6	108.1
p1 Cal 8-1000ng	8	✓	1000.0	1182.6	118.3

29



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	101.0
p1 Cal 2-10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	242.9	97.2
p1 Cal 7-500ng	7	✓	500.0	491.1	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1057.0	105.7

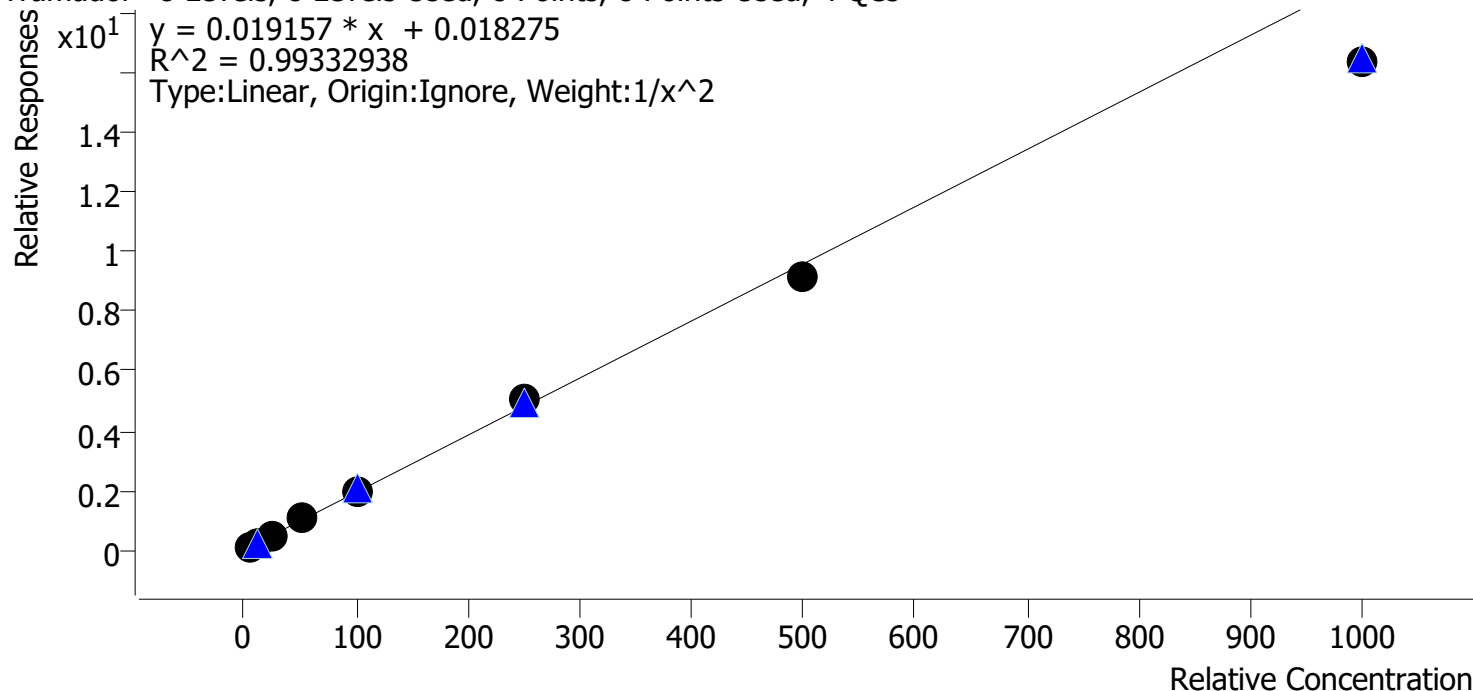
23



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Last Cal. Update 12/9/2024 12:49 PM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2-10ng	2	✓	10.0	10.5	104.5
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	262.4	104.9
p1 Cal 7-500ng	7	✓	500.0	479.8	96.0
p1 Cal 8-1000ng	8	✓	1000.0	852.3	85.2



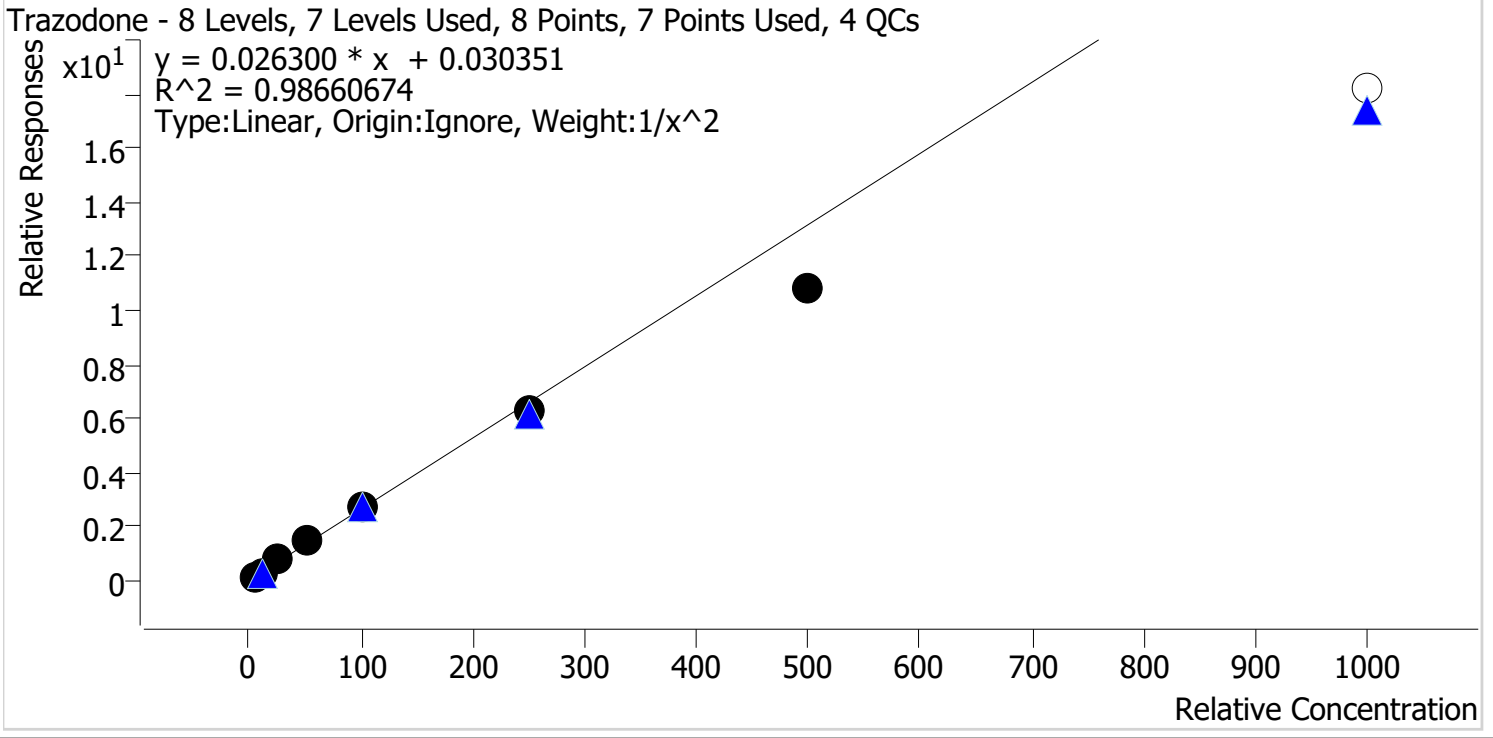
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch resultsD:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin

Last Cal. Update12/9/2024 12:49 PM

Analyst NameISP\datastor

AnalyteTrazodoneInternal StandardTrazodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.4
p1 Cal 2-10ng	2	✓	10.0	10.6	105.7
p1 Cal 3 -25ng	3	✓	25.0	27.4	109.6
p1 Cal 4-50ng	4	✓	50.0	54.3	108.6
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	240.4	96.2
p1 Cal 7-500ng	7	✓	500.0	409.9	82.0
p1 Cal 8-1000ng	8	✗	1000.0	691.2	69.1

AM #28 Multi-Drug Quant. Results



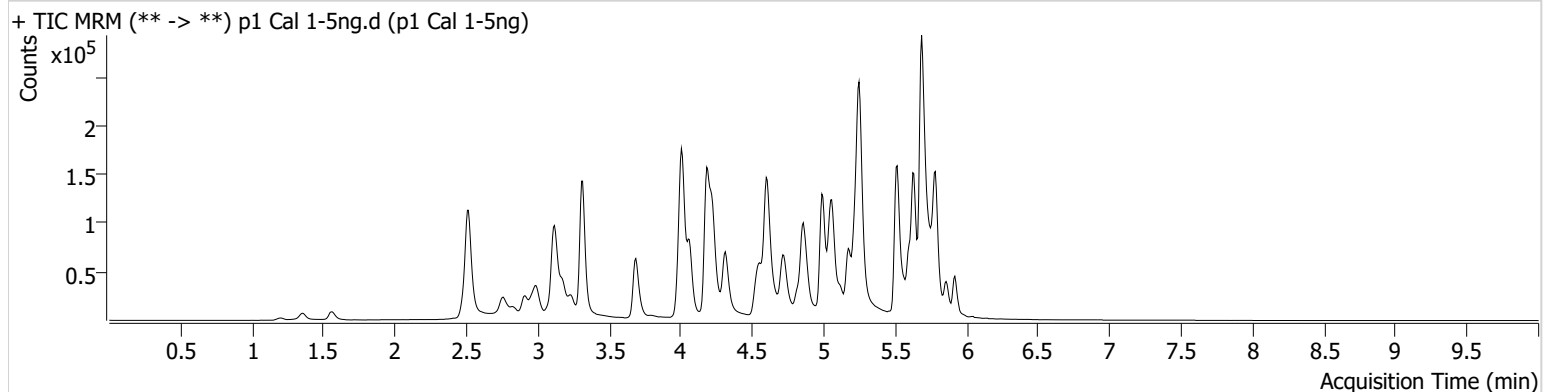
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-A1
Injection Volume 2
Acq. Date-Time 12/6/2024 9:15:53 PM
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.
6-MAM	3.082	298	126.91	72.6	105.68	16688	0.4933 ng/ml
7-aminoclonazepam	4.203	5011	54.12	80.9	5586.79	38968	3.7051 ng/ml
Amphetamine	2.992	37431	859.27	47.8	147.30	76329	4.7461 ng/ml
Benzoyllecgonine	3.822	491	142.31	42.4	51.52	3481	5.0576 ng/ml
Bromazolam	5.781	7960	5589.57	131.4	7351.72	39296	4.8045 ng/ml
Bupropion	4.738	20509	11196.41	64.5	149.25	132110	4.9228 ng/ml
Citalopram	5.174	17634	288.84	37.8	6496.04	157771	5.0112 ng/ml
Clonazepam	5.571	12316	6041.13	36.1	1517.51	29831	4.8396 ng/ml
Cocaine	4.223	12629	24362.83	55.4	4423.76	230931	4.9293 ng/ml
Codeine	2.535	1672	54.13	104.4	61.41	14980	4.7303 ng/ml
Cyclobenzaprine	5.601	19608	37043.26	8.3	632.16	129098	5.0304 ng/ml
Dextromethorphan	5.238	11224	2117.93	81.4	2487.41	96553	4.9858 ng/ml
Dextrorphan	4.069	6518	3509.12	198.2	671.45	132442	5.0103 ng/ml
Dihydrocodeine	2.514	4427	6879.58	63.3	3985.79	44656	4.7208 ng/ml
Diphenhydramine	5.259	46752	180.68	32.0	48.45	496779	4.9898 ng/ml
Fentanyl	5.063	2022	60.17	57.5	2352.86	188235	0.5085 ng/ml
Hydrocodone	2.989	6550	36.91	33.9	61.47	56912	4.9123 ng/ml
Hydroxyzine	5.685	23150	18977.63	59.9	8269.52	96553	4.9200 ng/ml
Methamphetamine	3.182	65096	301.77	36.5	1101.02	193799	4.7482 ng/ml
Metoprolol	4.272	3490	236.59	110.0	416.24	320663	4.8594 ng/ml
Mitragynine	5.192	7137	36787.08	38.5	1231.01	233646	5.0504 ng/ml
Morphine	1.207	696	258.84	57.0	87.18	1830	4.8761 ng/ml
Norfentanyl	4.028	2896	2557.31	39.2	60.70	232943	0.5678 ng/ml
Norhydrocodone	3.016	990	111.23	50.0	41.91	16000	5.2593 ng/ml
Pseudoephedrine	2.525	32638	423.92	17.8	301.26	312449	5.0227 ng/ml
Sertraline	5.763	8657	400.50	95.7	41326.76	70409	5.0494 ng/ml
Tramadol	4.198	35410	1772.87	3.4	38.98	320663	4.8103 ng/ml
Trazodone	5.117	27422	844.78	63.6	13460.03	177435	4.7222 ng/ml

AM #28 Multi-Drug Quant. Results



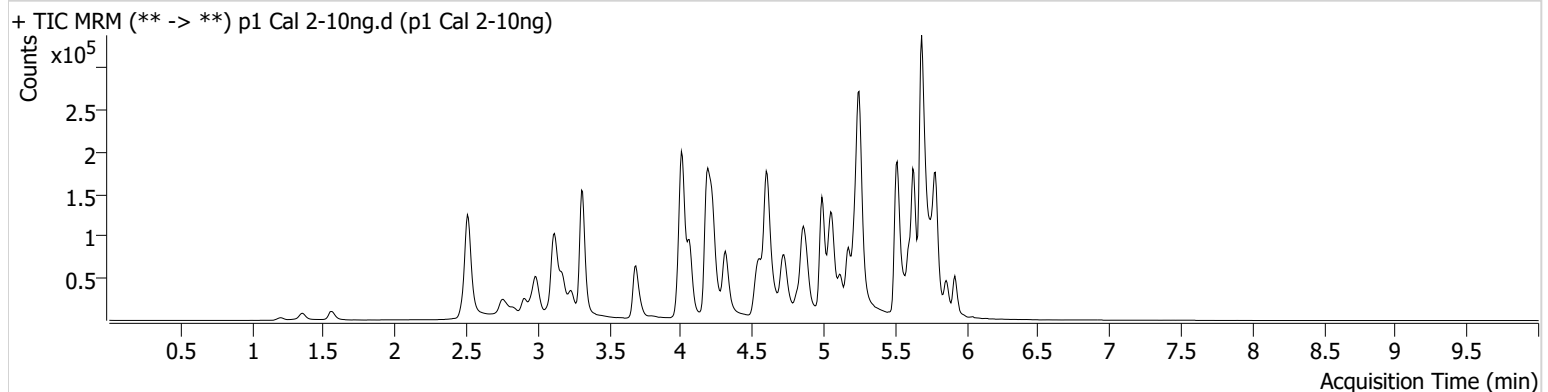
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-B1
Injection Volume 2
Acq. Date-Time 12/6/2024 9:26:40 PM
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.
6-MAM	3.082	620	157.79	69.2	105.27	16890	1.0271 ng/ml
7-aminoclonazepam	4.203	10983	2445.14	77.4	14280.24	42649	10.9812 ng/ml
Amphetamine	2.992	70165	296.51	48.4	1393.62	75924	10.5280 ng/ml
Benzoyllecgonine	3.822	918	757.72	45.3	163.43	3360	9.6143 ng/ml
Bromazolam	5.781	15740	14421.25	131.5	16302.66	38373	10.3637 ng/ml
Bupropion	4.738	41371	30685.71	64.9	1017.47	133142	10.1011 ng/ml
Citalopram	5.174	35843	319.55	38.3	88.68	158181	10.0421 ng/ml
Clonazepam	5.571	23745	1025.37	34.6	22857.16	30215	10.1083 ng/ml
Cocaine	4.223	24997	23631.56	56.8	98.42	230414	10.1874 ng/ml
Codeine	2.535	3351	13421.83	101.0	624.96	15116	10.6024 ng/ml
Cyclobenzaprine	5.601	39683	13285.65	7.8	155.23	131469	9.9811 ng/ml
Dextromethorphan	5.238	23171	109633.77	82.5	14164.13	99158	9.8407 ng/ml
Dextrorphan	4.069	13129	13730.02	208.8	974.57	133842	9.9848 ng/ml
Dihydrocodeine	2.514	9147	374.86	58.0	106.27	45651	10.6913 ng/ml
Diphenhydramine	5.252	92301	3107.18	32.7	154.43	498124	9.9999 ng/ml
Fentanyl	5.063	3882	72.32	68.2	4610.48	190689	0.9886 ng/ml
Hydrocodone	2.989	12697	36.62	34.3	102.18	57854	10.0567 ng/ml
Hydroxyzine	5.685	47172	6039.43	59.1	1251.86	99158	10.1197 ng/ml
Methamphetamine	3.175	95201	1029.92	35.4	3085.51	194781	10.6293 ng/ml
Metoprolol	4.272	6920	1271.89	110.1	835.92	316245	10.2650 ng/ml
Mitragynine	5.192	13786	528.10	39.4	5618.33	238450	9.6826 ng/ml
Morphine	1.207	1430	1591.60	55.6	774.26	1821	10.2676 ng/ml
Norfentanyl	4.028	5770	84.64	38.4	113.06	230596	1.0174 ng/ml
Norhydrocodone	3.016	2170	57.94	43.0	64.26	16481	9.5702 ng/ml
Pseudoephedrine	2.525	63488	691.20	17.9	2797.31	311618	9.9345 ng/ml
Sertraline	5.756	19748	4849.39	99.3	∞	82642	9.8986 ng/ml
Tramadol	4.198	69102	1569.75	3.2	74.07	316245	10.4522 ng/ml
Trazodone	5.117	55989	56749.37	63.9	47592.19	181576	10.5703 ng/ml

AM #28 Multi-Drug Quant. Results



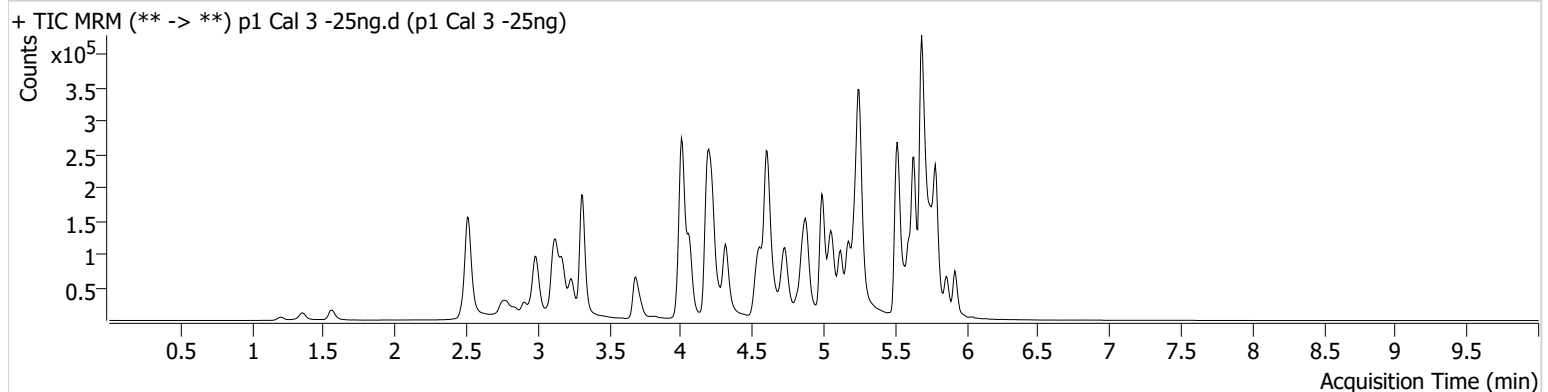
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 12/6/2024 9:37:17 PM
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



AM #28 Multi-Drug Quant. Results



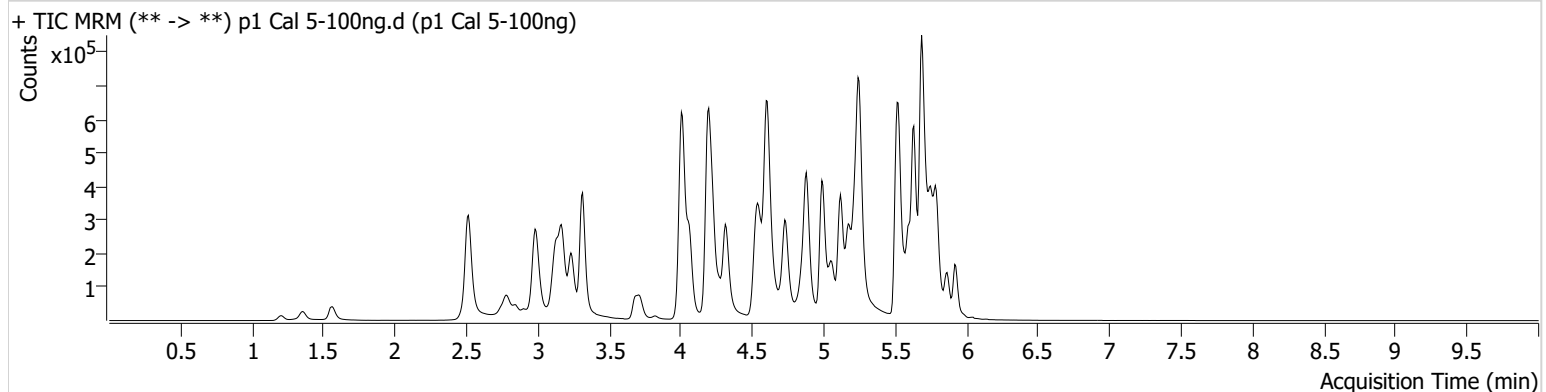
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-E1
Injection Volume 2
Acq. Date-Time 12/6/2024 9:58:33 PM
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.
6-MAM	3.082	5893	413.55	73.6	3934.66	16823	9.9001 ng/ml
7-aminoclonazepam	4.197	45299	1068.98	79.0	2805.09	26409	93.2542 ng/ml
Amphetamine	2.986	566734	38033.96	45.3	351.66	74503	99.6086 ng/ml
Benzoyllecgonine	3.822	9345	1265.15	41.2	600.18	3352	96.3371 ng/ml
Bromazolam	5.781	116361	11695.07	129.5	191316.49	29152	106.2515 ng/ml
Bupropion	4.738	406109	550.58	63.5	18495.21	130203	103.6286 ng/ml
Citalopram	5.174	340503	1085.68	37.1	15397.12	148952	100.2737 ng/ml
Clonazepam	5.571	174499	8043.04	35.5	36594.79	23594	103.4712 ng/ml
Cocaine	4.223	223835	38294.36	57.9	472.61	211975	102.7881 ng/ml
Codeine	2.528	27096	300.37	103.6	104.88	13409	106.5741 ng/ml
Cyclobenzaprine	5.601	371943	908.58	7.7	63.81	124179	98.9002 ng/ml
Dextromethorphan	5.231	220317	28498.17	78.9	238.69	91601	99.6117 ng/ml
Dextrorphan	4.062	123643	9323.04	211.7	763.23	127044	99.0449 ng/ml
Dihydrocodeine	2.507	83305	547.73	58.4	742.99	45083	107.8682 ng/ml
Diphenhydramine	5.252	875551	435.12	32.8	428.26	470666	102.0248 ng/ml
Fentanyl	5.063	39567	73005.70	67.5	18852.67	197147	9.9929 ng/ml
Hydrocodone	2.982	118453	∞	35.9	1326.96	56212	103.1005 ng/ml
Hydroxyzine	5.685	420888	379228.21	65.9	279366.96	91601	100.8919 ng/ml
Methamphetamine	3.175	574159	15653.67	35.6	22885.18	195636	104.7375 ng/ml
Metoprolol	4.272	68638	1361.07	107.6	5062.07	324200	103.5509 ng/ml
Mitragynine	5.192	140043	826.49	38.7	28262.84	226160	105.0549 ng/ml
Morphine	1.207	12935	3654.38	56.1	2751.24	1754	97.9730 ng/ml
Norfentanyl	4.028	50224	14090.09	39.2	323.09	191394	9.4943 ng/ml
Norhydrocodone	3.010	23067	121.80	42.9	180.39	15492	93.3603 ng/ml
Pseudoephedrine	2.518	575045	46803.23	17.4	30746.28	288192	98.5754 ng/ml
Sertraline	5.756	150149	153692.33	96.9	15167.24	62194	100.8239 ng/ml
Tramadol	4.191	647903	113206.74	3.3	288.97	324200	103.3662 ng/ml
Trazodone	5.117	524176	910094.82	68.5	416600.71	190488	103.4746 ng/ml

AM #28 Multi-Drug Quant. Results



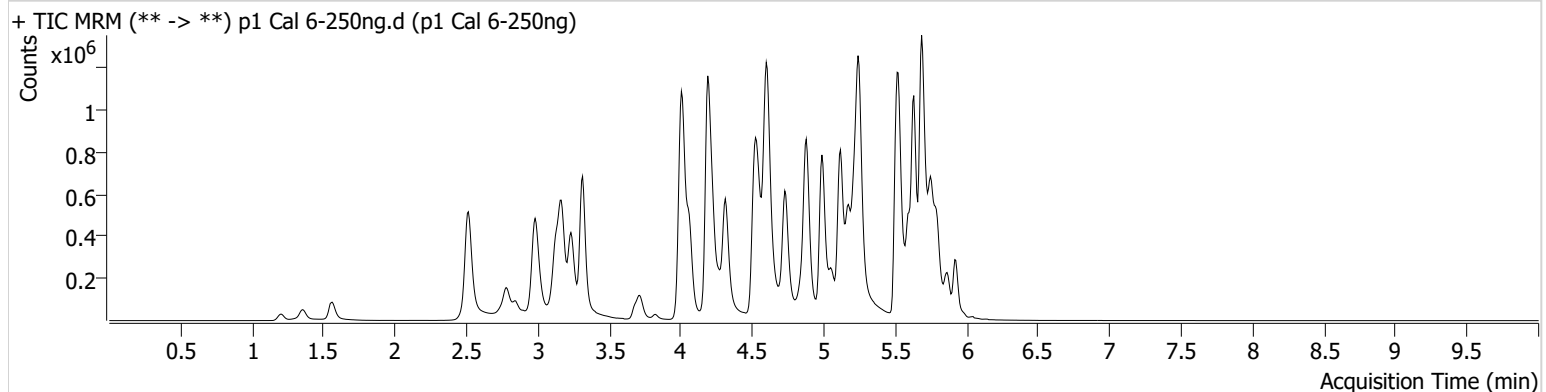
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-F1
Injection Volume 2
Acq. Date-Time 12/6/2024 10:09:11 PM
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.
6-MAM	3.082	13876	2960.86	71.6	335.01	15692	25.0088 ng/ml
7-aminoclonazepam	4.197	58550	6982.67	66.4	∞	18165	178.3610 ng/ml
Amphetamine	2.986	1047280	31357.07	46.3	27406.21	68222	202.8396 ng/ml
Benzoyllecgonine	3.822	25689	1413.01	38.6	3433.78	3504	253.0087 ng/ml
Bromazolam	5.781	193296	127782.00	132.5	188769.87	20850	247.5989 ng/ml
Bupropion	4.732	932631	618368.90	63.0	5842.97	122507	253.2904 ng/ml
Citalopram	5.174	743737	964.73	33.9	892.93	129098	252.5308 ng/ml
Clonazepam	5.571	284027	11900.77	35.0	253.05	16340	244.5257 ng/ml
Cocaine	4.223	469548	155539.29	58.9	343.72	182198	251.4619 ng/ml
Codeine	2.528	53899	131.02	102.7	12976.95	11731	243.8669 ng/ml
Cyclobenzaprine	5.601	789338	87530.20	7.6	5503.95	102756	253.6185 ng/ml
Dextromethorphan	5.224	472045	803.98	79.8	433.56	79058	247.0205 ng/ml
Dextrorphan	4.062	263908	37323.70	211.2	777.21	108412	247.7332 ng/ml
Dihydrocodeine	2.500	174233	8641.03	61.5	541.96	42318	241.7314 ng/ml
Diphenhydramine	5.252	1880044	271447.47	33.1	1094.05	408097	252.9296 ng/ml
Fentanyl	5.057	98465	429.34	69.5	91076.40	193125	25.4287 ng/ml
Hydrocodone	2.975	258327	158.74	38.2	∞	51234	247.7509 ng/ml
Hydroxyzine	5.685	890449	229422.33	68.0	506278.38	79058	247.8456 ng/ml
Methamphetamine	3.168	1250744	168788.16	35.7	14594.53	191430	243.1967 ng/ml
Metoprolol	4.272	141174	581.90	106.8	71999.94	277244	249.7406 ng/ml
Mitragynine	5.192	295263	636696.19	39.1	882.67	197078	254.3766 ng/ml
Morphine	1.207	29885	867.64	55.8	2340.67	1613	246.4063 ng/ml
Norfentanyl	4.028	95709	901.27	38.0	7641.27	136110	25.2332 ng/ml
Norhydrocodone	3.010	53175	553.92	38.4	636.16	13310	248.0624 ng/ml
Pseudoephedrine	2.518	1221871	159182.93	17.1	54241.94	243415	248.2067 ng/ml
Sertraline	5.756	287589	26169.76	100.3	45715.60	49470	242.9119 ng/ml
Tramadol	4.191	1398569	202031.36	3.5	2056.54	277244	262.3712 ng/ml
Trazodone	5.117	1161308	428.86	70.3	84465.81	182816	240.3772 ng/ml

AM #28 Multi-Drug Quant. Results



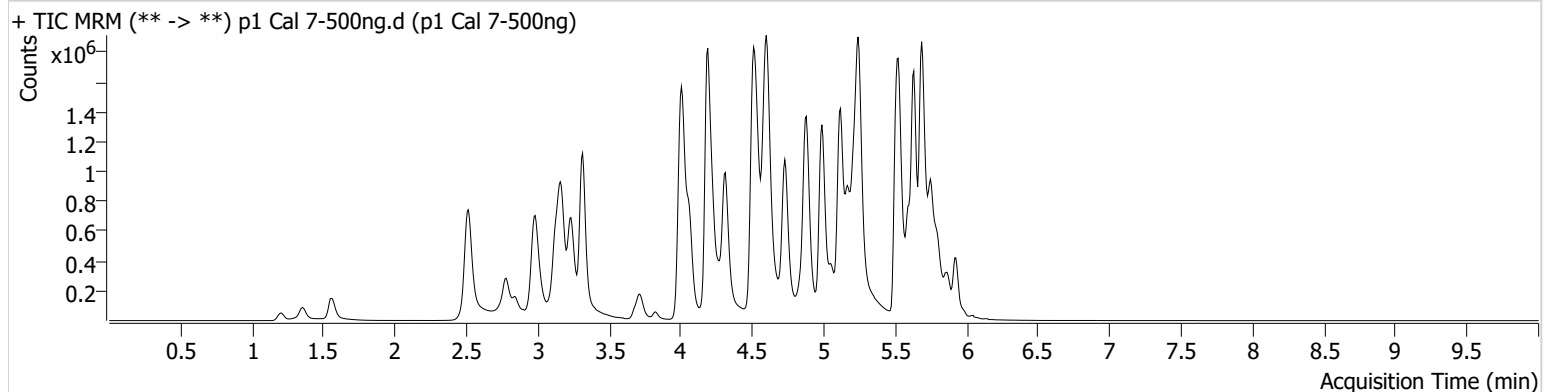
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-G1
Injection Volume 2
Acq. Date-Time 12/6/2024 10:19:48 PM
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.
6-MAM	3.082	26309	333.08	71.6	18426.23	14758	50.4314 ng/ml
7-aminoclonazepam	4.203	59900	∞	65.0	1147.47	10077	331.9211 ng/ml
Amphetamine	2.986	1569175	58679.05	46.1	55866.49	66764	311.5112 ng/ml
Benzoylcegonine	3.822	54643	1140.30	38.4	1647.37	3718	506.9845 ng/ml
Bromazolam	5.781	266610	218631.97	131.4	196392.80	15154	470.4432 ng/ml
Bupropion	4.732	1746530	94732.18	63.0	12368.85	118274	491.5439 ng/ml
Citalopram	5.167	1208235	85499.56	37.2	34457.91	102220	518.0017 ng/ml
Clonazepam	5.571	351272	57146.41	35.9	22995.48	11835	418.2372 ng/ml
Cocaine	4.217	830549	50028.42	57.9	13712.00	156224	519.1875 ng/ml
Codeine	2.528	87618	1014.58	102.9	310.71	10765	432.9599 ng/ml
Cyclobenzaprine	5.601	1284382	50296.90	7.6	22885.53	84171	503.7824 ng/ml
Dextromethorphan	5.224	780552	2599.49	78.2	36451.14	66789	483.3195 ng/ml
Dextrorphan	4.062	461757	28683.10	208.1	585.85	91499	513.5745 ng/ml
Dihydrocodeine	2.494	280723	1650.78	66.9	1397.36	41268	400.1239 ng/ml
Diphenhydramine	5.252	3231551	156158.25	33.7	1054.31	355080	499.8430 ng/ml
Fentanyl	5.057	202406	17904.10	68.2	458.27	196835	51.3147 ng/ml
Hydrocodone	2.975	518349	2308.77	33.5	406.27	53581	476.0510 ng/ml
Hydroxyzine	5.685	1494637	172124.08	69.2	547682.50	66789	492.7901 ng/ml
Methamphetamine	3.168	2186396	38476.94	35.6	796.22	194173	425.0338 ng/ml
Metoprolol	4.272	233352	6691.30	107.9	645.37	262809	435.8458 ng/ml
Mitragynine	5.185	517968	169885.37	38.3	∞	178960	491.5494 ng/ml
Morphine	1.207	52269	13999.99	55.4	732.89	1375	505.7556 ng/ml
Norfentanyl	4.028	128647	1295.31	40.5	12654.33	93621	49.1920 ng/ml
Norhydrocodone	3.010	98287	243.25	40.8	1247.10	11254	540.5741 ng/ml
Pseudoephedrine	2.518	2073851	125232.47	17.3	56724.51	202567	506.3762 ng/ml
Sertraline	5.756	382737	42844.64	95.7	27964.60	32572	491.0802 ng/ml
Tramadol	4.184	2420476	1706.39	3.4	1421.71	262809	479.8102 ng/ml
Trazodone	5.117	2096738	166793.91	72.1	136185.64	193951	409.8939 ng/ml

AM #28 Multi-Drug Quant. Results



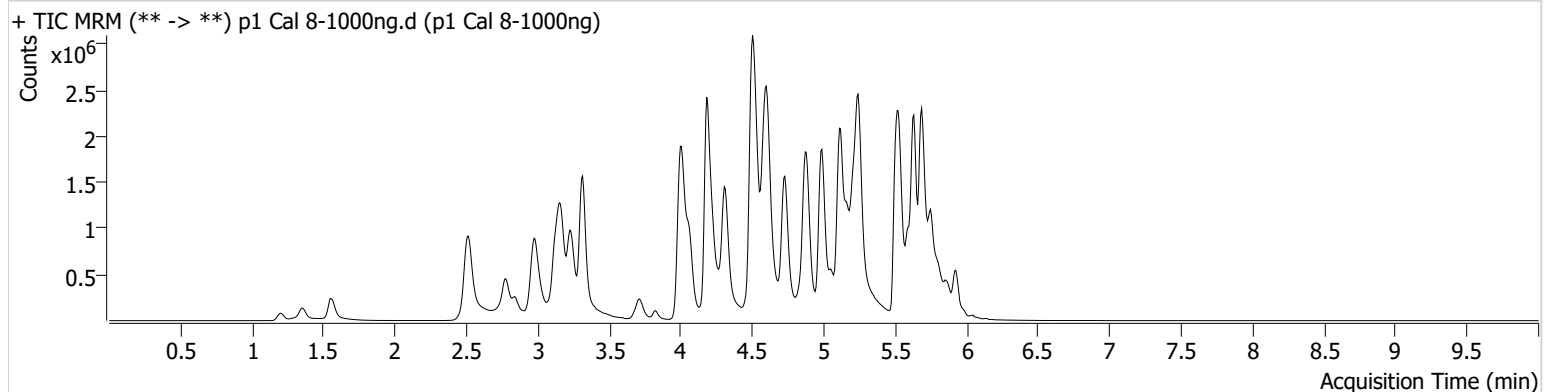
Batch results D:\MassHunter\Data\2024\AM 27 28\120624 AM 27 28 CS\QuantResults\AM 28 Cases.batch.bin
Calibration Last Update 12/9/2024 12:49:29 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 28 MDQ P1.m
Sample Position P2-H1
Injection Volume 2
Acq. Date-Time 12/6/2024 10:30:25 PM
Sample Info.

Data File p1 Cal 8-1000ng.d
Sample p1 Cal 8-1000ng
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.
6-MAM	3.075	42889	163521.62	71.1	5505.47	12312	98.5546 ng/ml
7-aminoclonazepam	4.210	56656	2190.58	80.3	1556.49	4429	718.3944 ng/ml
Amphetamine	2.986	2034192	49690.86	45.9	45961.87	59402	454.6899 ng/ml
Benzoylcegonine	3.822	105019	1381.55	38.3	4512.63	3705	977.6243 ng/ml
Bromazolam	5.774	326524	44532.68	135.0	301535.83	9877	884.5022 ng/ml
Bupropion	4.732	2757232	164160.18	62.9	394678.87	100621	912.3534 ng/ml
Citalopram	5.167	1650624	∞	37.8	29743.74	74677	968.5743 ng/ml
Clonazepam	5.564	371373	12561.95	36.1	13541.23	6706	781.1792 ng/ml
Cocaine	4.217	1041543	34677.46	63.0	40702.52	114626	887.6580 ng/ml
Codeine	2.528	126880	766.86	103.6	4991.56	7334	921.7056 ng/ml
Cyclobenzaprine	5.594	1722600	39943.45	7.8	112246.11	55832	1018.6156 ng/ml
Dextromethorphan	5.217	1112329	33596.59	78.7	96527.70	46030	999.1874 ng/ml
Dextrorphan	4.062	660179	1326.26	210.3	4124.31	67316	998.0491 ng/ml
Dihydrocodeine	2.494	437109	97920.60	64.8	12732.66	34503	746.1552 ng/ml
Diphenhydramine	5.252	4424065	148762.27	33.9	∞	253391	959.0790 ng/ml
Fentanyl	5.057	367570	17963.84	69.7	185063.78	176672	103.8516 ng/ml
Hydrocodone	2.968	860668	340.36	34.7	332.98	45580	929.9213 ng/ml
Hydroxyzine	5.685	1993090	122709.19	72.1	229591.08	46030	953.8342 ng/ml
Methamphetamine	3.161	3277460	44395.38	35.4	42635.74	170340	732.0768 ng/ml
Metoprolol	4.272	309359	237833.30	107.3	826.48	208741	727.7973 ng/ml
Mitragynine	5.185	733583	6238008.59	40.0	112368.23	134106	929.1338 ng/ml
Morphine	1.200	84537	526.58	55.0	∞	1206	932.4696 ng/ml
Norfentanyl	4.028	145495	7237.01	38.4	11341.99	51280	101.4391 ng/ml
Norhydrocodone	3.010	162974	54.51	42.0	651.94	8518	1182.5721 ng/ml
Pseudoephedrine	2.518	3017951	63952.86	17.5	253.85	147743	1010.4930 ng/ml
Sertraline	5.756	411119	24095.91	94.1	643.79	16256	1057.0377 ng/ml
Tramadol	4.184	3412173	191420.97	3.5	38037.55	208741	852.3308 ng/ml
Trazodone	5.117	3131119	121795.33	74.4	398719.84	171950	691.2154 ng/ml