

**REVIEWED**

By Anne Nord at 2:02 pm, Oct 31, 2019

10/30/2019

cg

**Worklist: 3797**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-1667	2	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1739	2	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1770	2	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-3991	3	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4014	4	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4283	3	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2659	3	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2734	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2772	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2796	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2797	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2885	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2893	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2915	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-2934	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

The samples were extracted and run on 10/11/19, 10/24/19, and 10/25/19 but the data was not evaluated or used due to possible methamphetamine contamination. The samples were again extracted on 10/28/19 and it was decided to not evaluate methamphetamine with this method. The samples that had screened for methamphetamine were evaluated based on the AM 2 data. cg

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

Extraction Date: 10/28/2019  
 Plate lot#: 190729

Analyst: Celena Shrum  
 Plate Expiration: 01/29/20

**Mobile phase A:** 5mM Amm Form + 0.01% FA  
 0.5M Ammonium Hydroxide

**Mobile phase B:** 0.01% Formic Acid in MeOH  
 Ethyl Acetate 20% Methanol in Water

**Blank Blood Lot:** 445283-3

**Urine Blank lot:** POC031319

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

**LCMS-QQQ ID:** 069901

### 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.
- 3. Create worklist

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette **250µL blood (calibrated pipette) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #3**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
- 7. 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*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**.
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**.
- 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH**. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

### Post-Analytic

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

COMMENTS: Methamphetamine not evaluated for this run.

Curve limits: 7-aminoclonazepam 5-500, Amphetamine 5-250, Dihydrocodeine 5-500, Lamotrigine 5-250, Lorazepam 25-500, Metoprolol 5-500, Mitragynine 5-500, Norbuprenorphine 2.5-100, Norhydrocodone 10-1000, Oxazepam 10-1000, Phentermine 5-500, Quetiapine 5-500



# Idaho State Police Forensic Services

## AM #28 Blood and Urine Multi-Drug Screen by LCMS-QQQ

### Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

### Urine External Control Solution (Lot: WS092519)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		042719
Prepared:	09/25/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

# AM #28 Multi-Drug Quant. Results

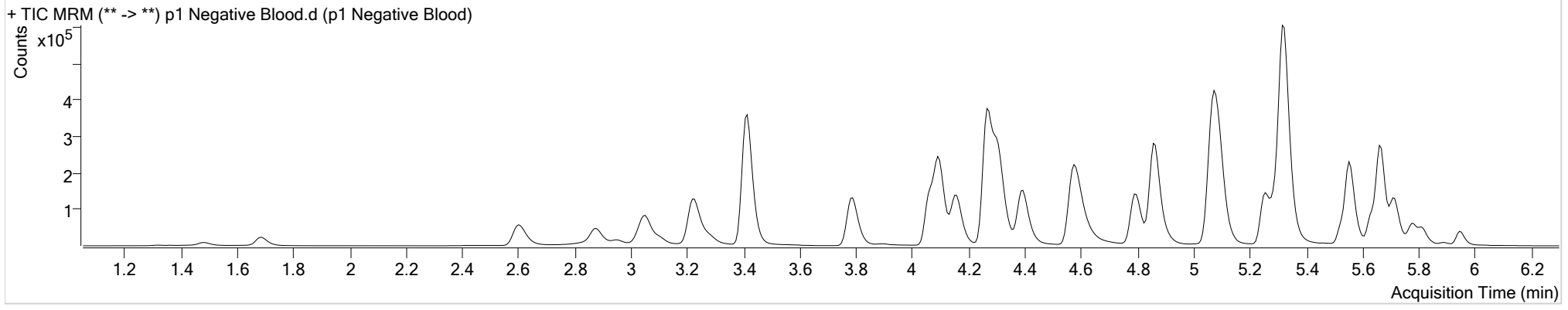


**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS.batch-meth removed.bin.batch.bin  
**Calibration Last Update** 10/31/2019 9:36:14 AM

**Instrument** Falco  
**Type** Sample  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-E2  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 7:01:43 PM  
**Sample Info.**

**Data File** p1 Negative Blood.d  
**Sample** p1 Negative Blood  
**Operator**  
**Comment**

## Sample Chromatogram





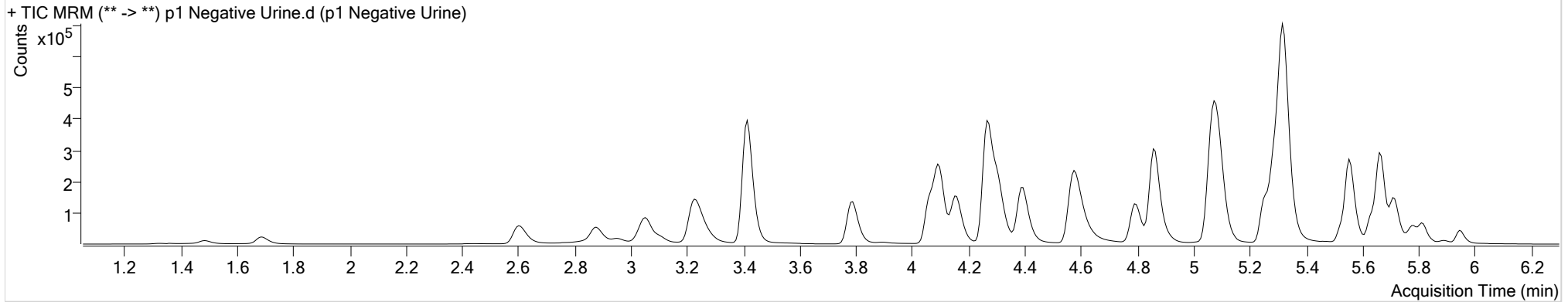
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS.batch-meth removed.bin.batch.bin  
**Calibration Last Update** 10/31/2019 9:36:14 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Negative Urine.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative Urine
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	
<b>Sample Position</b>	P1-F2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	10/28/2019 7:12:14 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



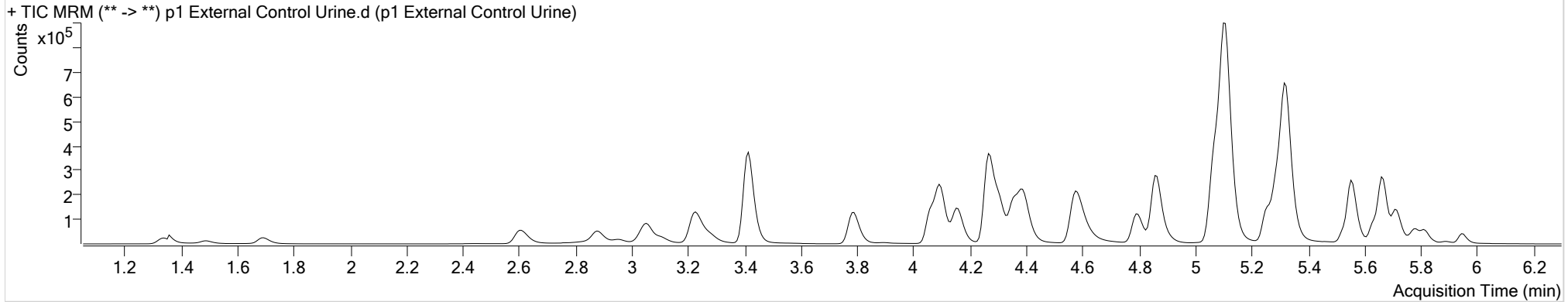
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS.batch-meth removed.bin.batch.bin  
**Calibration Last Update** 10/31/2019 9:36:14 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 External Control Urine.d
<b>Type</b>	Sample	<b>Sample</b>	p1 External Control Urine
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	
<b>Sample Position</b>	P1-G2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	10/28/2019 7:22:44 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Metoprolol	4.360	212383	70794.55	97.3	∞	975550	121.8475 ng/ml
Morphine	1.340	59077	281.51	20.9	∞	4954	118.9243 ng/ml
Trazodone	5.106	1128672	7491.64	78.8	91048.24	405143	119.7016 ng/ml

# AM #28 Multi-Drug Quant. Results



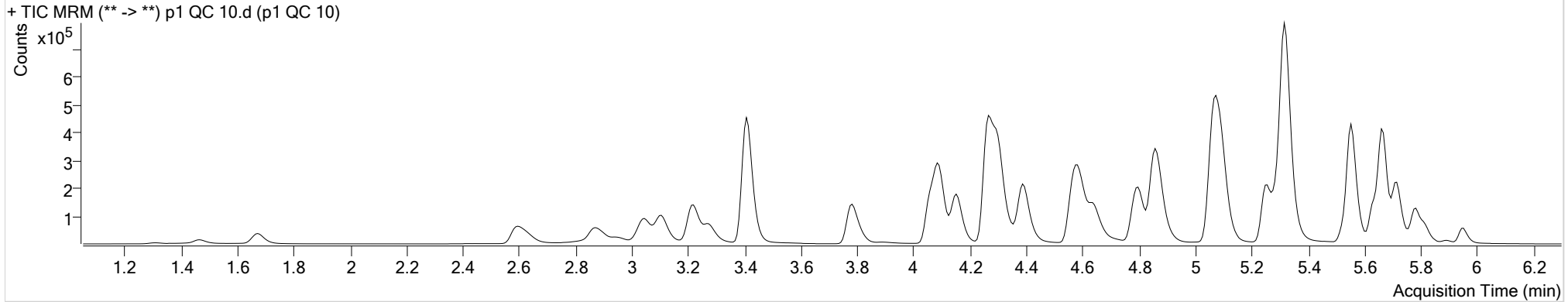
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS-meth removed.batch.bin  
10/31/2019 1:34:28 PM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-A2  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 5:16:24 PM  
**Sample Info.**

**Data File** p1 QC 10.d  
**Sample** p1 QC 10  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	215	∞	74.8	967.10	3594	1.0262 ng/ml
7-aminoclonazepam	4.291	11841	807.73	86.5	2258.84	48910	9.6460 ng/ml
a-hydroxyalprazolam	5.700	757	10.77	69.0	86.87	4412	10.0355 ng/ml
alpha-PVP	4.398	102280	546.17	49.5	2027.93	443045	9.9407 ng/ml
Alprazolam	5.777	26185	567.75	102.4	399.80	61679	10.1947 ng/ml
Amphetamine	3.108	158133	7851.81	52.0	∞	138023	10.5042 ng/ml
Benzoylcegonine	3.921	2228	223.84	7.4	19.54	8920	9.1647 ng/ml
Buprenorphine	5.706	3047	163.54	15.6	991.20	114464	1.0452 ng/ml
Bupropion	4.807	135220	17940.09	57.9	230.79	430198	9.8482 ng/ml
Carisoprodol	5.733	15053	433.74	57.8	39.86	74489	10.0059 ng/ml
Citalopram	5.256	92862	3649.42	40.5	801.98	421244	9.9995 ng/ml
Clonazepam	5.620	2989	176.52	36.1	186.94	5701	9.5093 ng/ml
Cocaine	4.304	82624	10692.20	45.2	2733.21	630216	9.8401 ng/ml
Codeine	2.643	11498	344.22	101.6	164.60	46249	10.5285 ng/ml
Cyclobenzaprine	5.637	68369	5215.86	9.8	415.72	246006	9.8800 ng/ml
Dextromethorphan	5.299	59221	6654.51	77.9	16968.75	271228	9.9714 ng/ml
Dextrorphan	4.154	27165	5592.92	211.9	6531.82	359895	10.2559 ng/ml
Diazepam	5.955	18165	537.60	87.6	211.19	86802	10.2388 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.628	30512	2267.08	64.7	1626.02	161374	10.3867 ng/ml
Diphenhydramine	5.320	203940	16522.22	33.7	830.53	1638305	10.0402 ng/ml
Doxylamine	4.594	205670	2673.29	97.1	37755.57	844693	9.6504 ng/ml
EDDP	5.291	16529	522.66	43.2	1530.07	99691	9.8194 ng/ml
Fentanyl	5.106	6497	433.80	76.1	548.18	359426	0.9509 ng/ml
Fluoxetine	5.716	66655	5510.28	9.1	∞	280762	10.1748 ng/ml
Hydrocodone	3.079	25861	∞	39.7	168.18	172820	9.9085 ng/ml
Hydromorphone	1.679	20518	712.56	77.7	872.35	79344	9.9329 ng/ml
Ketamine	4.074	89468	574.24	37.1	171.63	397435	10.1859 ng/ml
Lamotrigine	4.315	7767	1300.48	82.3	∞	397435	10.3404 ng/ml
<del>Lorazepam</del>	<del>5.748</del>	<del>1018</del>	<del>23.41</del>	<del>63.6</del>	<del>46.39</del>	<del>5701</del>	<del>11.3887 ng/ml</del> outside curve range
Meprobamate	4.935	3550	684.61	25.3	33.98	19363	9.2571 ng/ml
Methadone	5.668	124406	14596.40	53.7	1582.44	577044	9.9688 ng/ml
Metoprolol	4.354	20721	1776.28	97.7	1500.04	1014178	10.3446 ng/ml
Mirtazapine	4.643	173338	2817.37	47.6	6495.36	443045	9.5180 ng/ml
Mitragynine	5.234	14827	2316.55	37.3	392.95	577044	9.1826 ng/ml
Morphine	1.313	5439	11764.12	21.6	7801.08	4976	10.3195 ng/ml
<del>Norbuprenorphine</del>	<del>5.017</del>	<del>96</del>	<del>8.60</del> Low	<del>74.5</del>	<del>8.74</del> Low	<del>4388</del>	<del>0.1282 ng/ml</del> outside curve range
Nordiazepam	5.901	3598	202.65	56.7	182.38	11724	9.5384 ng/ml
Norfentanyl	4.115	12554	2349.09	37.6	831.64	577143	0.9781 ng/ml
Norhydrocodone	3.113	726	45.16	38.0	106.18	37704	9.1817 ng/ml
Noroxycodone	2.971	16292	237.71	45.9	184.86	46902	10.0915 ng/ml
O-desmethyl-tramadol	3.414	189052	21573.08	6.2	806.32	1021569	10.0712 ng/ml
Oxazepam	5.758	1261	25.20	79.2	5.54	8324	8.7858 ng/ml
Oxycodone	2.895	46614	763.40	31.7	893.62	192890	10.3545 ng/ml
Oxymorphone	1.470	10064	177.85	48.8	133.80	36133	9.7291 ng/ml
Phentermine	3.818	35779	4080.48	2.3	79.64	406685	10.2310 ng/ml
Promethazine	5.556	151820	742.81	30.2	1601.15	677242	10.1469 ng/ml
Quetiapine	5.544	103856	3374.47	61.5	2010.68	143865	10.5400 ng/ml
Sertraline	5.784	27632	8088.64	91.8	1354.63	120297	10.1067 ng/ml
Temazepam	5.818	14975	529.96	32.9	41.04	78262	10.5413 ng/ml
Tramadol	4.280	209904	1224.12	3.4	∞	1014178	10.5671 ng/ml
Trazodone	5.099	107912	∞	78.2	2352.92	426629	10.1865 ng/ml
Venlafaxine	5.074	149142	11885.14	36.0	953.46	838599	9.9924 ng/ml
Zolpidem	4.878	170168	16024.64	31.3	266.60	807054	10.1234 ng/ml

# AM #28 Multi-Drug Quant. Results



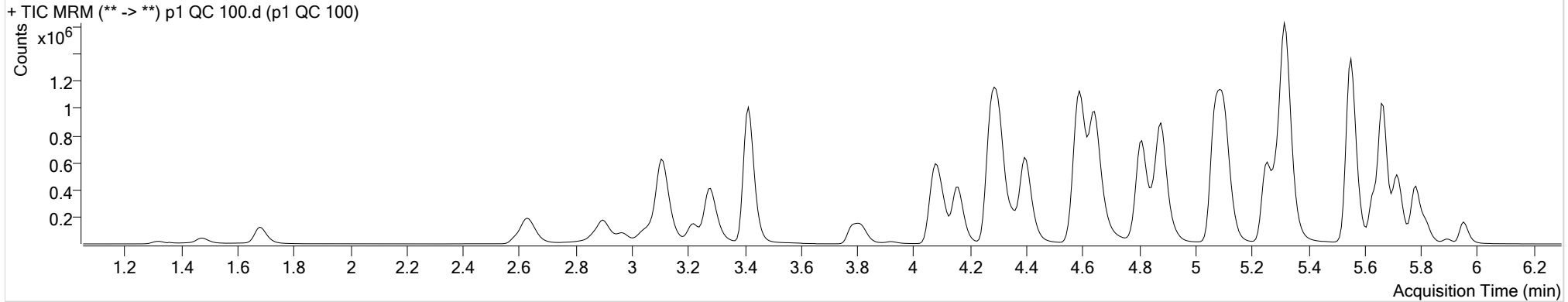
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS.batch-meth removed.bin.batch.bin  
10/31/2019 9:36:14 AM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-B2  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 5:37:28 PM  
**Sample Info.**

**Data File** p1 QC 100.d  
**Sample** p1 QC 100  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	1925	4916.53	68.5	2112.51	3331	9.8719 ng/ml
7-aminoclonazepam	4.291	102500	11182.36	80.2	67394.46	42521	103.6628 ng/ml
a-hydroxyalprazolam	5.700	7298	337.92	70.1	363.51	3880	99.2293 ng/ml
alpha-PVP	4.404	910289	63517.61	49.9	12767.14	403759	96.0876 ng/ml
Alprazolam	5.777	222479	1466.04	106.1	2715.24	52740	101.3610 ng/ml
Amphetamine	3.108	1222790	13412.24	52.5	32444.65	127254	99.0845 ng/ml
Benzoylcegonine	3.921	18253	3355.65	7.6	310.59	7895	101.7585 ng/ml
Buprenorphine	5.706	25898	1303.00	16.4	∞	101315	9.8963 ng/ml
Bupropion	4.813	1187779	57087.89	58.6	809.40	389733	105.0421 ng/ml
Carisoprodol	5.733	125202	2377.30	52.2	573.21	62428	96.4273 ng/ml
Citalopram	5.256	787024	∞	41.3	779.21	368551	97.3076 ng/ml
Clonazepam	5.620	26588	2561.57	32.0	644.96	5360	101.3260 ng/ml
Cocaine	4.304	704544	77444.38	44.9	31025.82	553524	96.5258 ng/ml
Codeine	2.650	95058	312.06	100.8	9740.45	40599	106.5293 ng/ml
Cyclobenzaprine	5.637	541607	∞	9.9	3259.42	198213	97.9423 ng/ml
Dextromethorphan	5.299	500306	19709.87	79.3	42293.11	233260	99.4723 ng/ml
Dextrorphan	4.160	244905	24649.12	210.8	1333.22	333157	102.4650 ng/ml
Diazepam	5.955	151383	4841.93	86.5	4980.17	74586	101.4855 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.628	256226	481.75	67.0	16682.47	149363	102.3926 ng/ml
Diphenhydramine	5.327	1727451	72641.09	33.5	20761.10	1427381	95.6956 ng/ml
Doxylamine	4.588	1865860	73399.98	97.5	372908.48	777996	99.8935 ng/ml
EDDP	5.291	172635	1366.98	43.2	3563.37	106733	97.5814 ng/ml
Fentanyl	5.113	55151	∞	72.6	2513.49	297214	9.4583 ng/ml
Fluoxetine	5.716	513341	32848.71	8.9	9934.72	222474	100.3963 ng/ml
Hydrocodone	3.079	222535	779.90	41.9	∞	155574	102.0450 ng/ml
Hydromorphone	1.686	183507	1730.85	76.4	1287.48	72670	98.6797 ng/ml
Ketamine	4.081	789957	1463.50	38.2	921.82	368410	103.1406 ng/ml
Lamotrigine	4.315	62558	2871.22	81.2	∞	368410	100.3437 ng/ml
Lorazepam	5.755	9426	174.79	51.1	194.44	5360	84.9437 ng/ml
Meprobamate	4.935	34574	22224.63	25.9	1347.13	18122	96.1070 ng/ml
Methadone	5.668	1057634	2898.99	53.0	11779.33	496897	95.9357 ng/ml
Metoprolol	4.360	171566	∞	97.5	∞	950515	100.8169 ng/ml
Mirtazapine	4.643	1498469	13724.31	49.0	∞	403759	93.7526 ng/ml
Mitragynine	5.241	131472	66079.13	38.4	77044.81	496897	91.3853 ng/ml
Morphine	1.320	44127	483.94	21.7	∞	4487	97.9536 ng/ml
Norbuprenorphine	5.024	1005	116.55	77.1	156.71	4782	9.8208 ng/ml
Nordiazepam	5.901	32079	3495.22	57.5	2187.03	10613	99.0316 ng/ml
Norfentanyl	4.122	114450	4758.09	37.7	14054.02	530924	9.4986 ng/ml
Norhydrocodone	3.120	8376	224.66	34.4	95.73	37099	91.7177 ng/ml
Noroxycodone	2.971	141382	416.86	48.8	1155.86	42194	101.6066 ng/ml
O-desmethyl-tramadol	3.414	1709975	55734.34	6.2	5141.43	942918	101.0925 ng/ml
Oxazepam	5.758	10367	81.07	72.4	136.24	7361	93.9375 ng/ml
Oxycodone	2.895	420837	4459.09	31.1	∞	178581	104.0101 ng/ml
Oxymorphone	1.477	85555	5229.65	47.4	1733.45	30514	102.3732 ng/ml
Phentermine	3.818	294000	∞	2.1	220.36	370603	103.9676 ng/ml
Promethazine	5.556	1220496	1361.62	30.5	20878.82	550628	98.2837 ng/ml
Quetiapine	5.544	888519	2197.59	60.6	53475.62	130509	108.3458 ng/ml
Sertraline	5.784	202048	1381.82	89.2	783.94	87994	99.8905 ng/ml
Temazepam	5.825	129286	598.77	29.7	431.73	69853	103.2363 ng/ml
Tramadol	4.280	1800143	128815.29	3.4	366.54	950515	105.6832 ng/ml
Trazodone	5.106	899957	220601.61	78.5	50238.76	378885	101.9492 ng/ml
Venlafaxine	5.074	1320757	86727.20	36.5	2213.84	757570	98.1997 ng/ml
Zolpidem	4.878	1505535	191562.33	30.7	18320.24	727441	103.5503 ng/ml

# AM #28 Multi-Drug Quant. Results



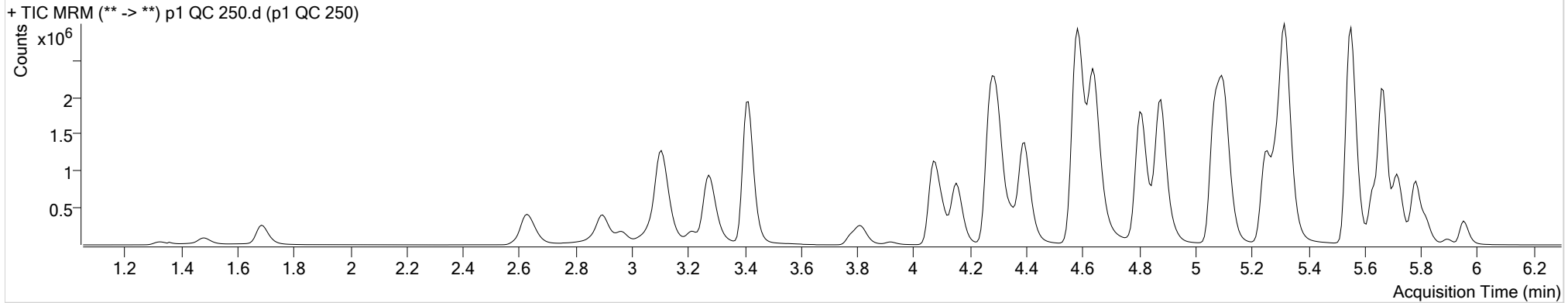
**Batch results**  
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**Sample Position** P1-C2  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 5:58:32 PM  
**Sample Info.**

**Data File** p1 QC 250.d  
**Sample** p1 QC 250  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	5027	11659.25	65.5	13333.00	3436	24.9792 ng/ml
7-aminoclonazepam	4.285	199314	11556.51	81.4	72912.70	37728	228.1974 ng/ml
a-hydroxyalprazolam	5.700	17754	381.69	71.3	280.35	4214	220.9214 ng/ml
alpha-PVP	4.398	2326177	138101.16	49.6	27461.88	406113	243.9470 ng/ml
Alprazolam	5.784	529963	11243.05	104.0	2757.78	50068	254.3495 ng/ml
Amphetamine	3.108	2661746	32847.28	52.7	43886.04	125208	221.0119 ng/ml
Benzoylcegonine	3.914	47120	15150.43	7.7	297.73	8605	243.8223 ng/ml
Buprenorphine	5.706	57248	1231.81	16.4	4703.90	91220	24.2729 ng/ml
Bupropion	4.807	3099728	638250.05	58.0	99058.73	406972	264.1613 ng/ml
Carisoprodol	5.733	267413	1199.08	54.4	2751.48	50027	256.4712 ng/ml
Citalopram	5.256	1917200	∞	41.3	894.92	355730	245.6634 ng/ml
Clonazepam	5.620	64696	2568.83	32.3	784.85	5521	241.1677 ng/ml
Cocaine	4.298	1687869	139647.40	45.2	179931.01	513676	249.3651 ng/ml
Codeine	2.650	216792	466.71	100.4	∞	38097	260.1625 ng/ml
Cyclobenzaprine	5.637	1292373	121243.82	9.8	5637.39	188231	246.2397 ng/ml
Dextromethorphan	5.299	1210366	88637.57	79.2	714778.40	222244	252.8420 ng/ml
Dextrorphan	4.154	604333	78985.16	211.4	98992.54	322144	261.9480 ng/ml
Diazepam	5.955	353057	888.48	86.8	15988.50	69920	252.8529 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	612948	49050.59	66.4	16918.74	152035	242.0033 ng/ml
Diphenhydramine	5.320	4159827	181031.58	32.7	29909.15	1322077	248.4454 ng/ml
Doxylamine	4.581	5183175	170097.19	96.6	4429.27	855601	253.1592 ng/ml
EDDP	5.291	532355	12797.94	42.8	∞	129258	248.7915 ng/ml
Fentanyl	5.106	141224	51432.15	73.7	∞	285821	25.1302 ng/ml
Fluoxetine	5.716	1174796	19915.43	9.0	3907.48	203639	251.2695 ng/ml
Hydrocodone	3.072	562426	169.58	39.9	∞	160386	251.4105 ng/ml
Hydromorphone	1.686	448947	2624.23	74.8	2133.22	70979	247.4588 ng/ml
Ketamine	4.074	1938992	1630.46	38.1	9543.18	364419	257.0000 ng/ml
Lamotrigine	4.315	134894	35110.46	80.6	∞	364419	220.3526 ng/ml
Lorazepam	5.755	27027	344.69	53.3	179.88	5521	230.9389 ng/ml
Meprobamate	4.935	84992	1076.81	25.1	614.52	17269	247.8991 ng/ml
Methadone	5.668	2666078	95389.29	52.9	49640.56	492258	243.6808 ng/ml
Metoprolol	4.354	386879	121813.61	97.7	∞	892667	243.7598 ng/ml
Mirtazapine	4.643	3774179	291853.61	48.9	152289.30	406113	235.3792 ng/ml
Mitragynine	5.234	365593	41154.56	39.3	165776.58	492258	255.8993 ng/ml
Morphine	1.327	104658	∞	21.2	10788.87	4187	249.9876 ng/ml
Norbuprenorphine	5.017	2101	156.79	83.0	104.17	4108	25.3257 ng/ml
Nordiazepam	5.901	80838	5445.66	57.5	8862.34	10330	257.2954 ng/ml
Norfentanyl	4.115	290163	64036.37	37.4	4723.99	509282	25.0694 ng/ml
Norhydrocodone	3.120	21407	474.69	36.7	125.20	36055	238.7769 ng/ml
Noroxycodone	2.964	344054	886.32	49.2	902.25	41470	252.3091 ng/ml
O-desmethyl-tramadol	3.414	4276144	119330.06	6.1	9197.40	931464	256.3289 ng/ml
Oxazepam	5.758	29370	208.96	70.0	62.40	7594	260.5373 ng/ml
Oxycodone	2.895	1072218	11358.41	31.6	2737.92	180851	262.1996 ng/ml
Oxymorphone	1.477	210167	7751.30	47.3	6874.59	30910	248.9550 ng/ml
Phentermine	3.818	624030	3161.61	2.3	1249.67	372635	221.0964 ng/ml
Promethazine	5.556	3150062	2404.61	30.0	49255.53	558985	249.5201 ng/ml
Quetiapine	5.544	2088727	74050.69	59.4	2151.37	135182	247.2418 ng/ml
Sertraline	5.784	431299	17913.63	91.5	2076.86	75719	247.6085 ng/ml
Temazepam	5.825	339476	1099.78	29.6	395.12	72611	261.0042 ng/ml
Tramadol	4.273	4304909	160163.35	3.4	1416.88	892667	270.8170 ng/ml
Trazodone	5.106	2201005	3158.15	78.3	241058.78	367118	258.4695 ng/ml
Venlafaxine	5.074	3276018	14753.62	36.3	2137.36	742380	248.6022 ng/ml
Zolpidem	4.878	3807403	558847.13	30.8	17395.72	746143	256.0035 ng/ml



# AM #28 Multi-Drug Quant. Results



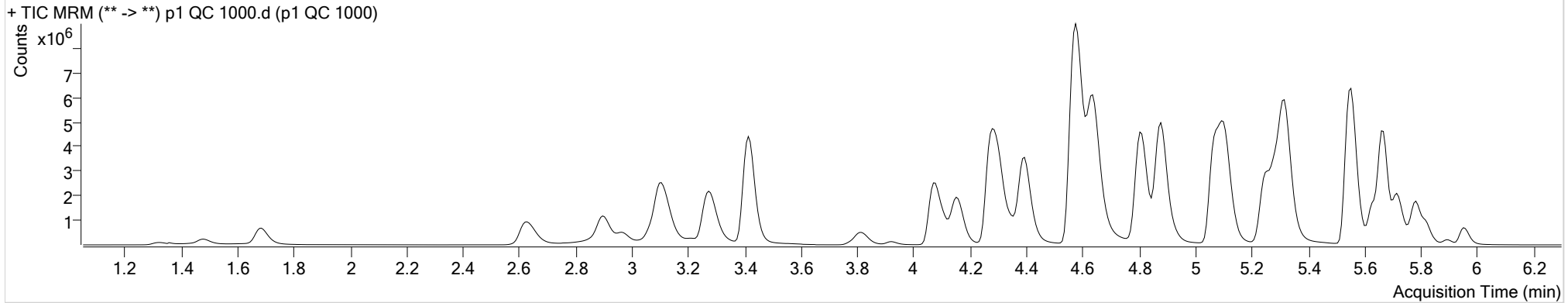
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS.batch-meth removed.bin.batch.bin  
10/31/2019 9:36:14 AM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-D2  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 6:19:35 PM  
**Sample Info.**

**Data File** p1 QC 1000.d  
**Sample** p1 QC 1000  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	13886	10975.23	70.2	53178.11	2281	103.9094 ng/ml
<del>7-aminoclonazepam</del>	<del>4.291</del>	<del>304828</del>	<del>∞</del>	<del>81.1</del>	<del>26445.99</del>	<del>18415</del>	<del>716.8467 ng/ml</del> outside curve range
a-hydroxyalprazolam	5.700	59399	581.35	70.5	789.03	2963	1047.0730 ng/ml
alpha-PVP	4.398	6771383	474623.08	49.4	∞	289712	995.0799 ng/ml
Alprazolam	5.784	1339474	1772.98	102.9	3375.36	31815	1011.7159 ng/ml
<del>Amphetamine</del>	<del>3.108</del>	<del>5688651</del>	<del>43557.87</del>	<del>52.4</del>	<del>224521.01</del>	<del>96161</del>	<del>617.6736 ng/ml</del> outside curve range
Benzoylcegonine	3.921	167989	∞	7.6	3033.26	7589	991.9543 ng/ml
Buprenorphine	5.706	134990	9239.60	15.9	∞	52007	100.3406 ng/ml
Bupropion	4.807	8668828	599283.95	58.0	159405.78	305376	987.5406 ng/ml
Carisoprodol	5.733	635478	18656.95	53.8	4031.93	28352	1074.4005 ng/ml
Citalopram	5.256	4528858	∞	41.0	∞	208925	988.2323 ng/ml
Clonazepam	5.614	169701	15678.91	33.2	2959.17	4153	844.3133 ng/ml
Cocaine	4.304	4168999	203463.29	44.6	442467.09	316454	1000.1279 ng/ml
Codeine	2.650	547961	∞	99.5	∞	26145	960.5490 ng/ml
Cyclobenzaprine	5.637	3090534	6650.73	9.6	1706.22	110952	999.2645 ng/ml
Dextromethorphan	5.292	2841847	144683.44	79.4	116134.24	132767	994.2446 ng/ml
Dextrorphan	4.154	1707925	115356.44	211.2	41253.97	229520	1039.9287 ng/ml
Diazepam	5.955	884167	∞	87.2	2963.22	44395	998.0378 ng/ml

# AM #28 Multi-Drug Quant. Results



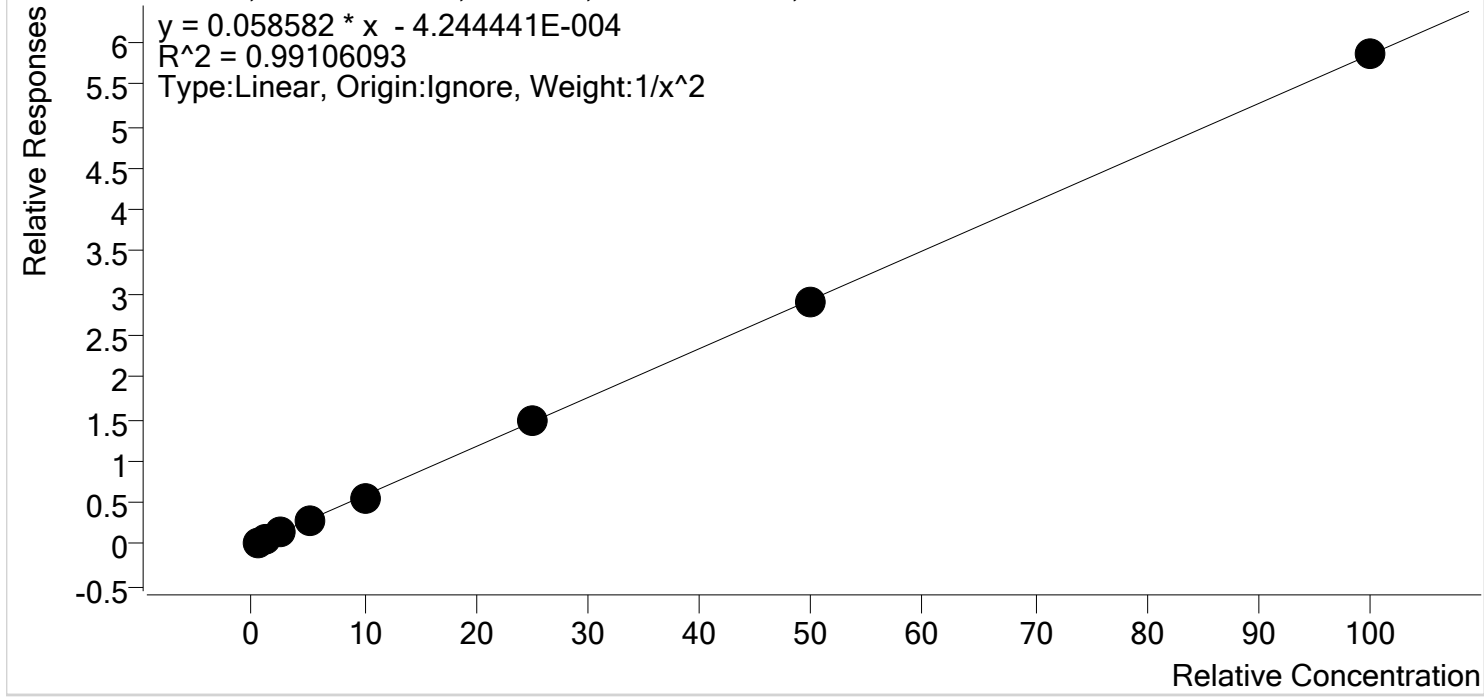
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	1606789	33041.02	66.8	17031.35	126385	765.3161 ng/ml outside curve range
Diphenhydramine	5.320	9927279	2358173.09	33.2	53708.79	777665	1007.3042 ng/ml
Doxylamine	4.574	16977289	∞	94.9	937425.11	714909	993.9958 ng/ml
EDDP	5.291	2527439	43803.35	43.6	666.16	152076	1004.5661 ng/ml
Fentanyl	5.106	394200	15983.97	77.0	1562911.4 3	178308	112.3284 ng/ml
Fluoxetine	5.716	2820705	78087.85	8.8	5410.79	121427	1012.2896 ng/ml
Hydrocodone	3.072	1683697	327.79	41.0	253.29	130567	926.8083 ng/ml
Hydromorphone	1.686	1307306	∞	73.3	∞	53327	959.6522 ng/ml
Ketamine	4.074	5305476	220455.52	37.7	1755.19	272211	943.3159 ng/ml
Lamotrigine	4.322	237192	31812.82	81.2	24077.62	272211	520.5536 ng/ml outside curve range
Lorazepam	5.755	112656	7417.17	54.1	251.33	4153	1265.7329 ng/ml outside curve range
Meprobamate	4.935	269796	44162.17	25.5	4927.27	13467	1008.9658 ng/ml
Methadone	5.668	7046269	515352.31	51.6	163998.13	319741	990.6614 ng/ml
Metoprolol	4.354	880026	21009.75	96.4	∞	640995	774.7857 ng/ml outside curve range
Mirtazapine	4.636	10642516	1332493.65	48.6	218071.47	289712	931.6068 ng/ml
Mitragynine	5.234	1184188	3300.87	39.5	2632.85	319741	1274.7420 ng/ml outside curve range
Morphine	1.327	279022	1479.34	21.1	1447.79	2758	1013.4928 ng/ml
Norbuprenorphine	5.017	8755	1344.27	77.3	172.40	4360	102.3696 ng/ml
Nordiazepam	5.901	235260	16429.80	56.2	∞	7832	989.2418 ng/ml
Norfentanyl	4.115	874662	28969.48	37.1	5997.50	350769	109.6447 ng/ml
Norhydrocodone	3.120	66958	785.33	37.5	181.02	24048	1114.3349 ng/ml
Noroxycodone	2.971	990522	1721.14	48.6	∞	30994	973.3013 ng/ml
O-desmethyl-tramadol	3.414	11999305	280295.92	6.1	41451.12	652187	1028.1167 ng/ml
Oxazepam	5.758	121107	403.09	72.0	290.42	9006	909.4975 ng/ml
Oxycodone	2.895	3526999	6206.47	31.4	18885.26	156733	996.1813 ng/ml
Oxymorphone	1.477	601367	13292.13	47.4	841.25	21577	1022.0236 ng/ml
Phentermine	3.818	1611076	∞	2.1	1295.62	301028	709.8010 ng/ml outside curve range
Promethazine	5.556	8296890	13504.78	29.4	255377.35	363195	1010.7867 ng/ml
Quetiapine	5.537	4827164	79267.08	60.3	69710.21	104138	743.8428 ng/ml outside curve range
Sertraline	5.791	838584	100156.55	90.0	47749.59	37001	984.8291 ng/ml
Temazepam	5.825	1060180	2552.61	29.9	∞	56455	1048.8135 ng/ml
Tramadol	4.274	10682488	170469.99	3.4	1141.02	640995	938.5865 ng/ml
Trazodone	5.106	5540982	13723.41	78.9	∞	249233	960.4935 ng/ml
Venlafaxine	5.067	9145436	1588529.27	35.2	3987.57	509554	1011.1961 ng/ml
Zolpidem	4.878	11020198	1624.84	30.0	50526.65	586784	943.4869 ng/ml



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**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	91.5
p1 Cal 2- 10ng	2	✓	1.0	1.2	119.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.0
p1 Cal 4-50ng	4	✓	5.0	4.9	97.9
p1 Cal 5-100ng	5	✓	10.0	9.6	95.7
p1 Cal 6-250ng	6	✓	25.0	25.1	100.2
p1 Cal 7-500ng	7	✓	50.0	49.2	98.5
p1 Cal 8-1000ng	8	✓	100.0	100.1	100.1



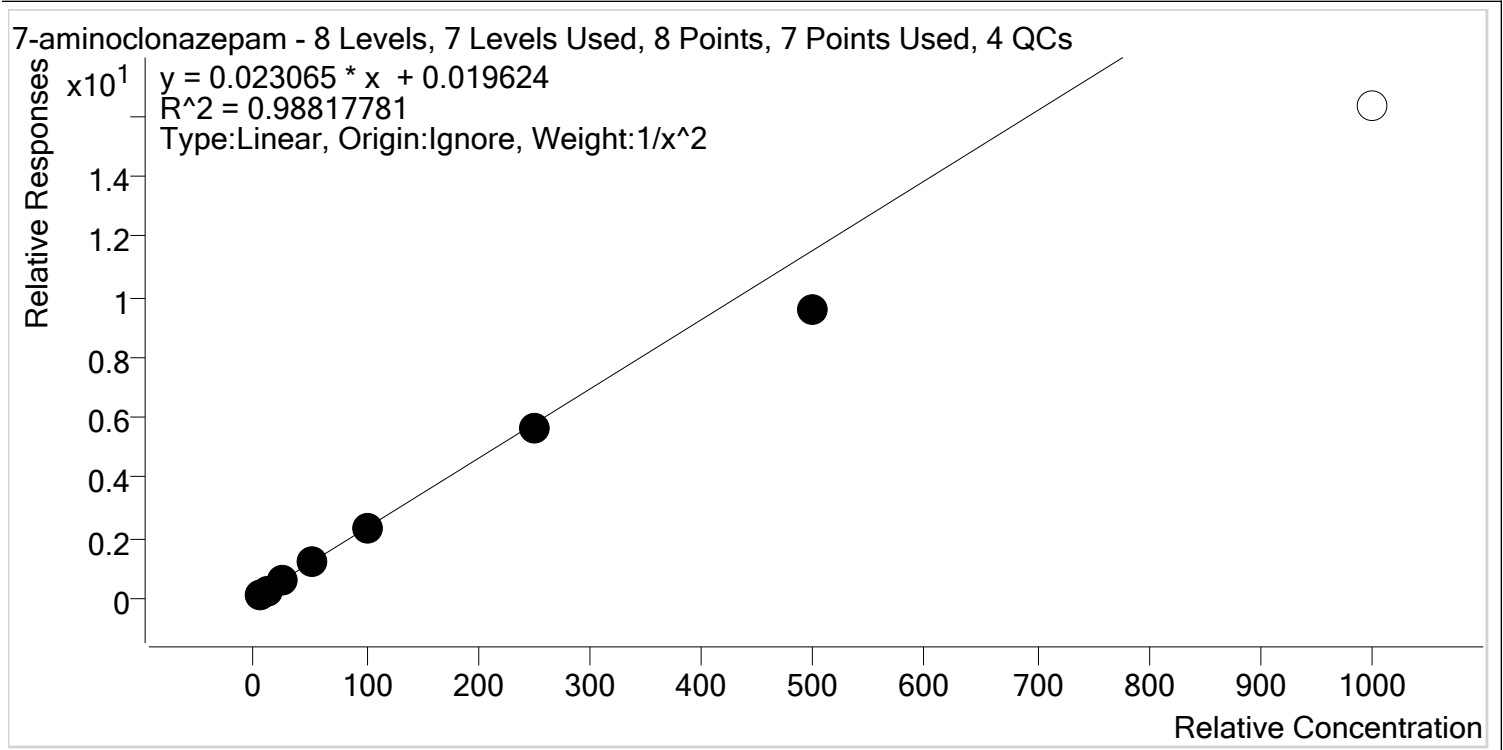
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**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	4.8	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	27.3	109.2
p1 Cal 4-50ng	4	✓	50.0	54.1	108.1
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	244.1	97.6
p1 Cal 7-500ng	7	✓	500.0	413.2	82.6
p1 Cal 8-1000ng	8	x	1000.0	706.8	70.7



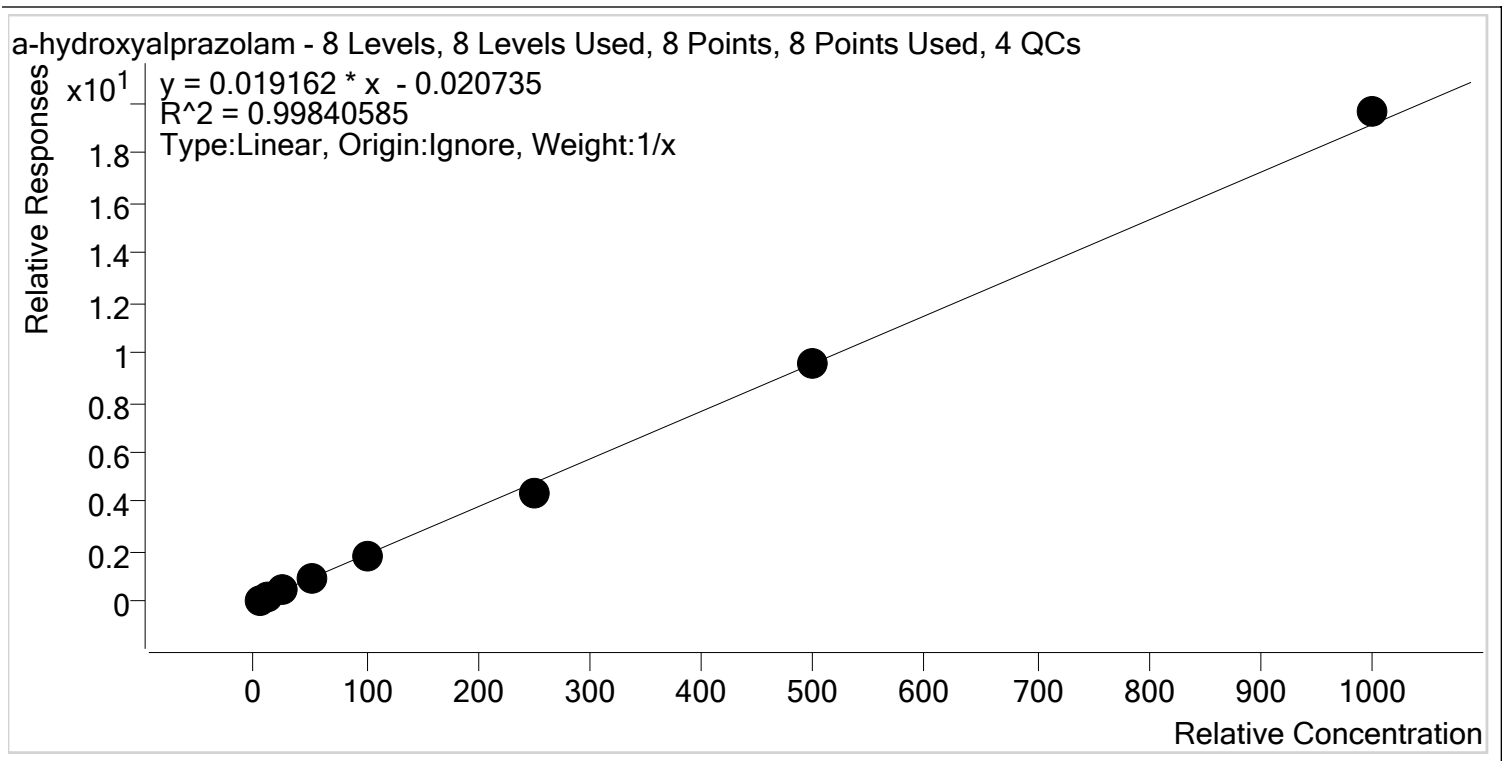
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

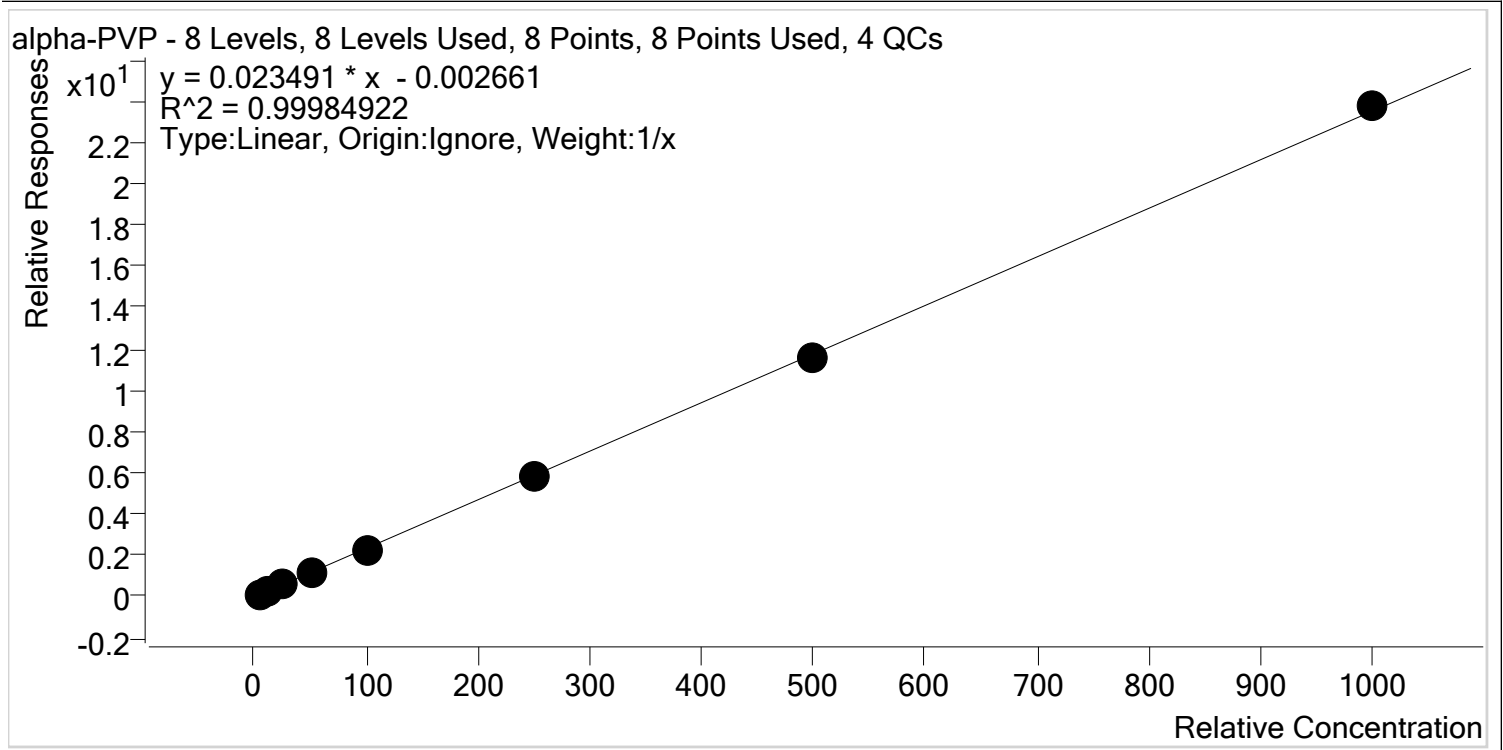


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	11.2	111.5
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	94.6	94.6
p1 Cal 6-250ng	6	✓	250.0	229.5	91.8
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1026.5	102.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	247.9	99.2
p1 Cal 7-500ng	7	✓	500.0	494.7	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1010.3	101.0



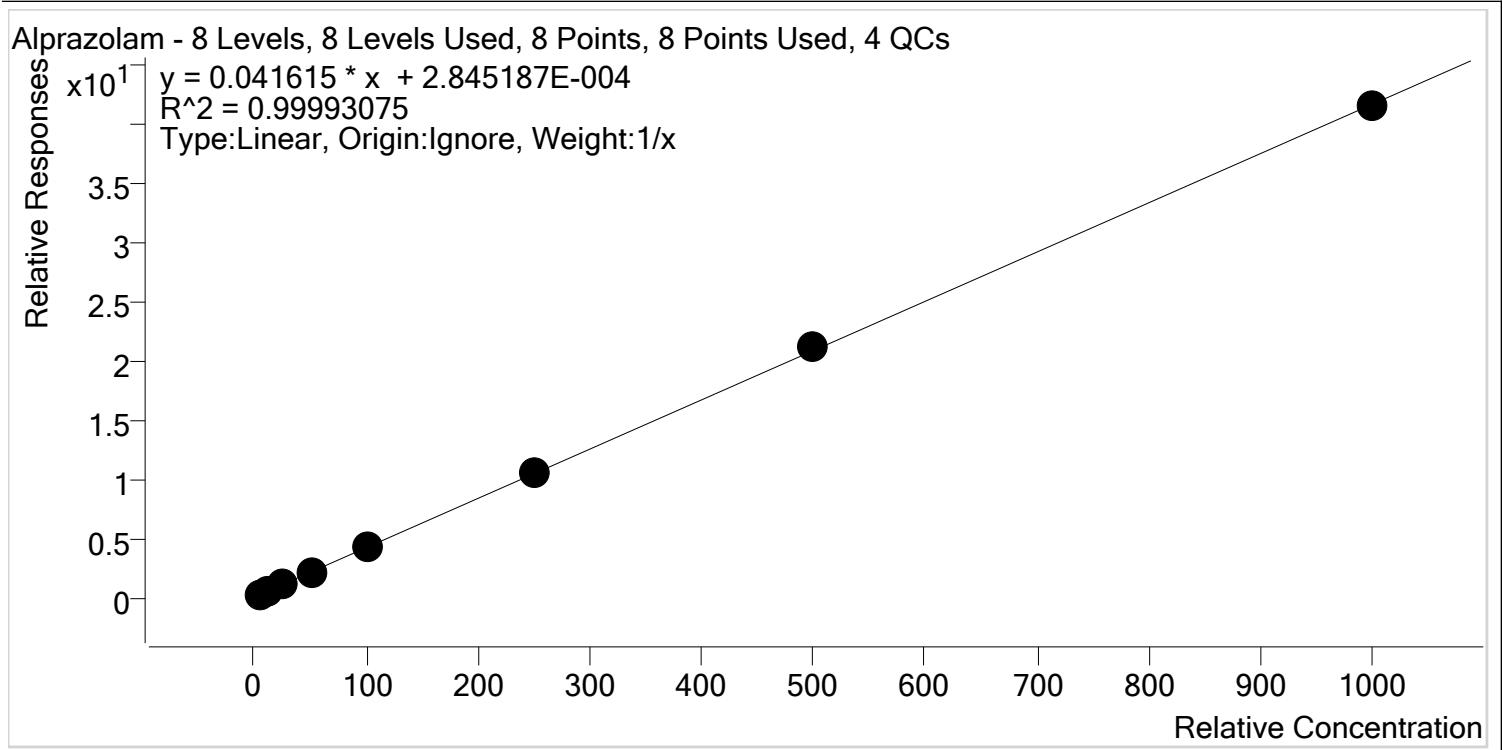
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	251.1	100.4
p1 Cal 7-500ng	7	✓	500.0	504.6	100.9
p1 Cal 8-1000ng	8	✓	1000.0	996.1	99.6



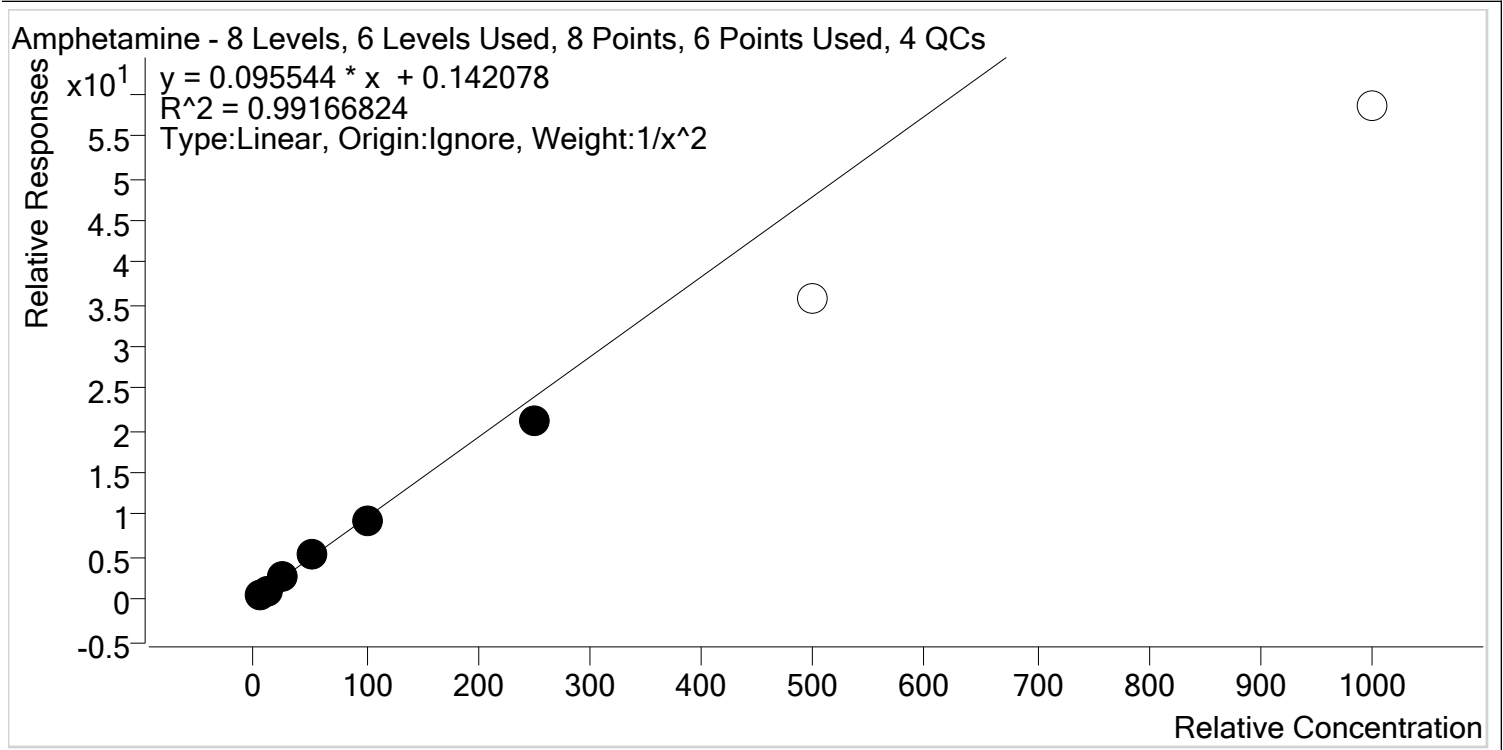
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



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	104.3
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.1
p1 Cal 4-50ng	4	✓	50.0	53.3	106.7
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	219.9	88.0
p1 Cal 7-500ng	7	✗	500.0	374.0	74.8
p1 Cal 8-1000ng	8	✗	1000.0	611.9	61.2

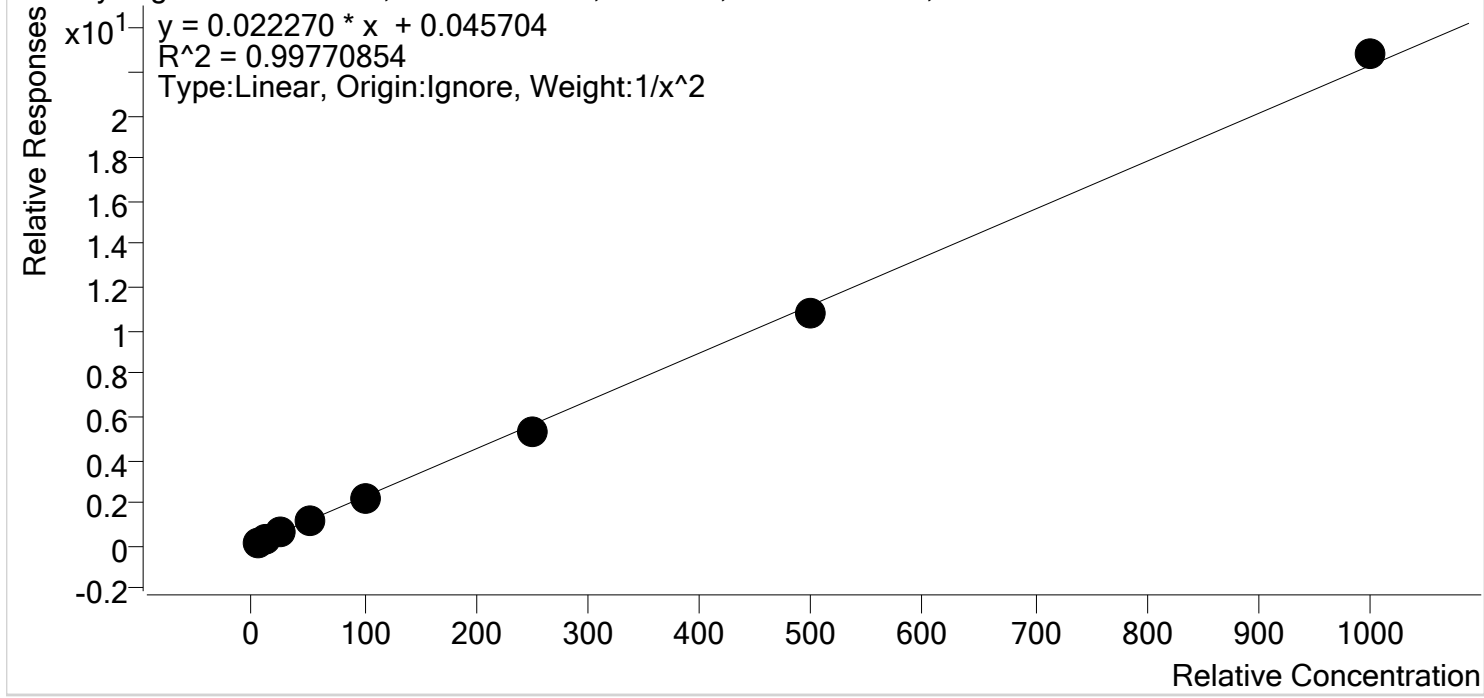




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8

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



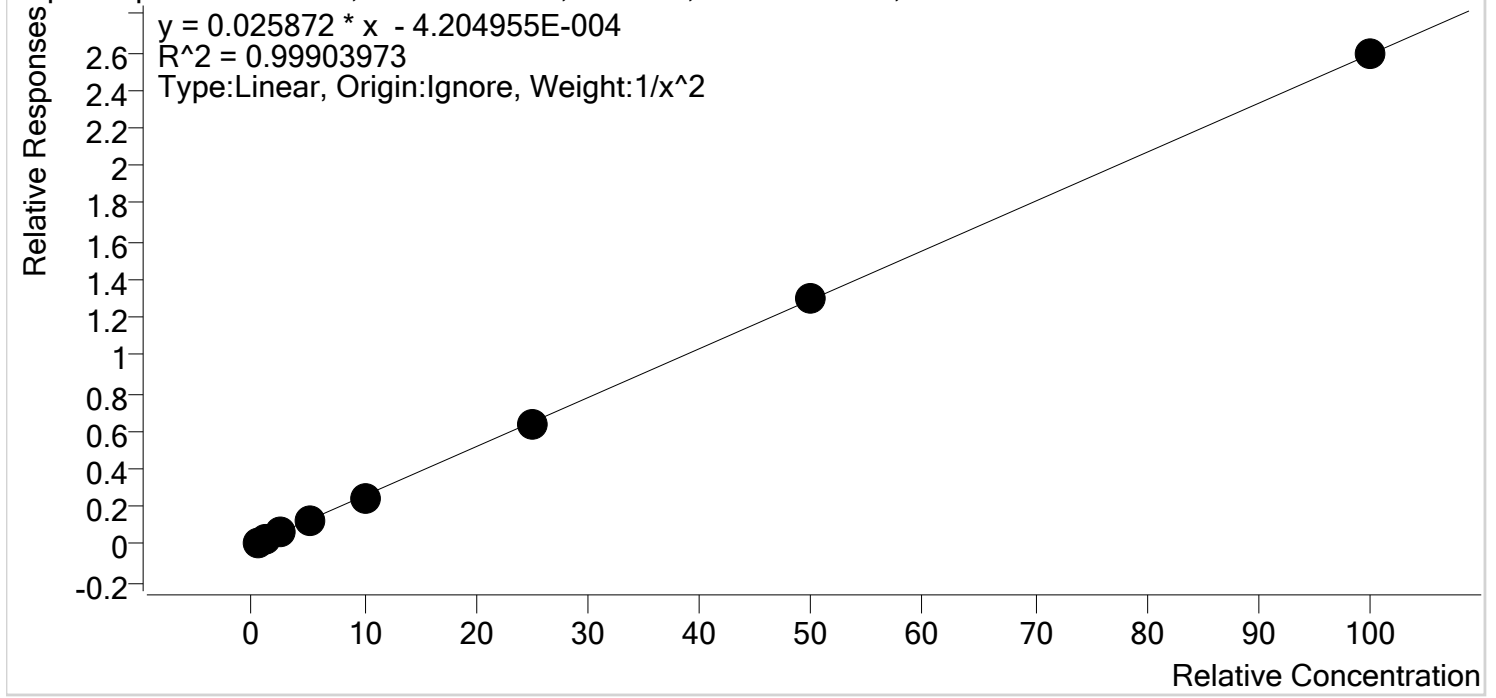
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng	5	✓	100.0	95.3	95.3
p1 Cal 6-250ng	6	✓	250.0	239.4	95.7
p1 Cal 7-500ng	7	✓	500.0	487.0	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1023.6	102.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

Buprenorphine - 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	100.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.3
p1 Cal 3 -25ng	3	✓	2.5	2.6	103.6
p1 Cal 4-50ng	4	✓	5.0	5.2	103.7
p1 Cal 5-100ng	5	✓	10.0	9.8	98.1
p1 Cal 6-250ng	6	✓	25.0	24.4	97.6
p1 Cal 7-500ng	7	✓	50.0	49.9	99.8
p1 Cal 8-1000ng	8	✓	100.0	100.0	100.0

CS



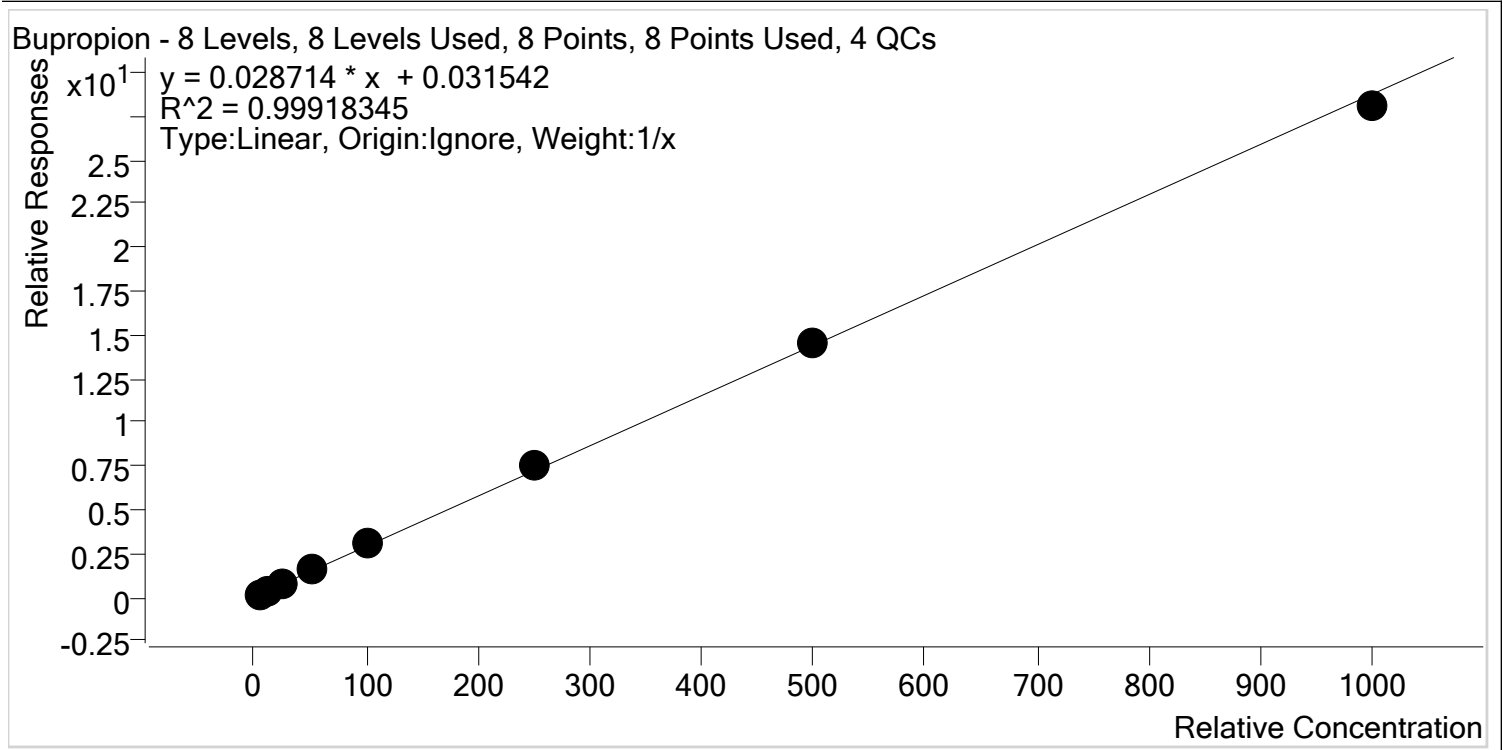
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Bupropion **Internal Standard** Bupropion-D9

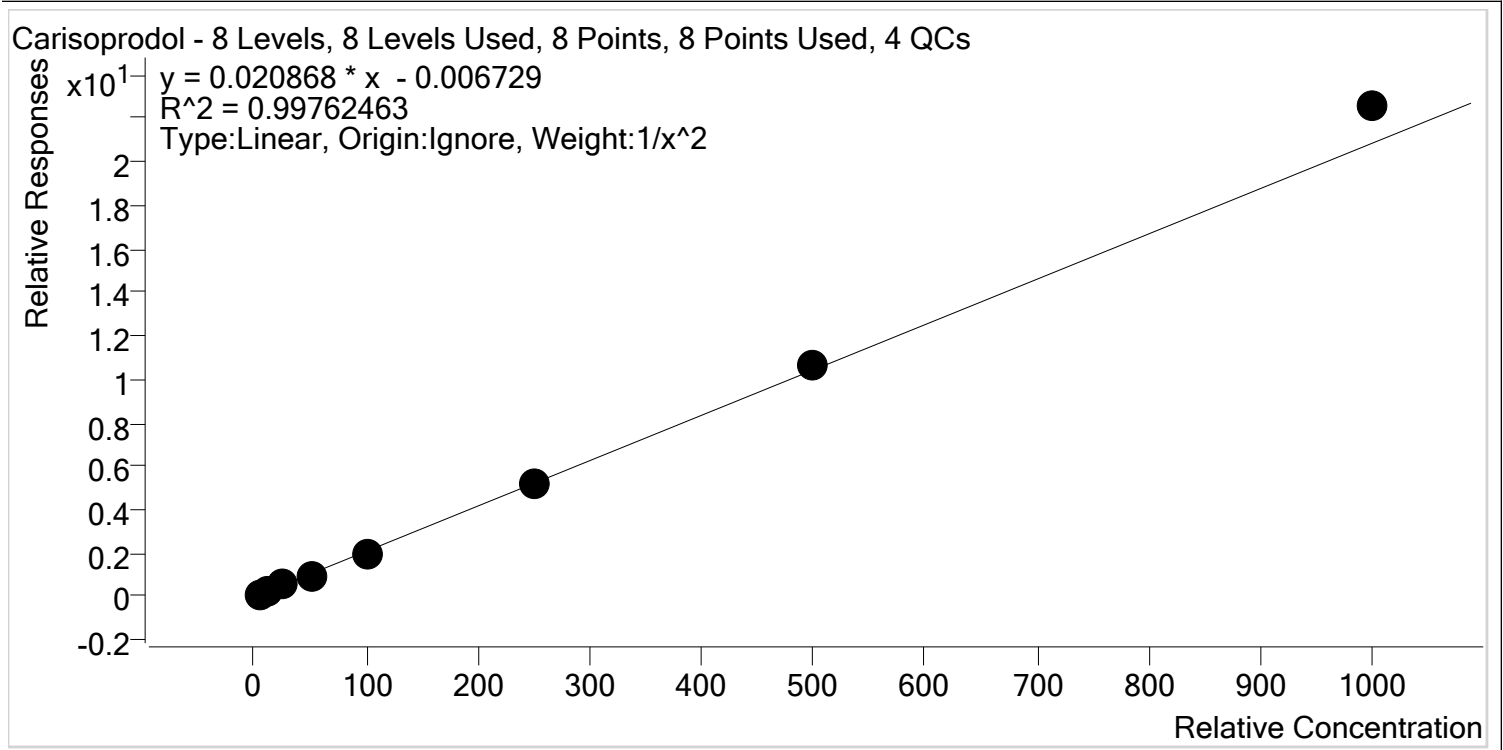


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	88.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	259.7	103.9
p1 Cal 7-500ng	7	✓	500.0	508.3	101.7
p1 Cal 8-1000ng	8	✓	1000.0	976.1	97.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

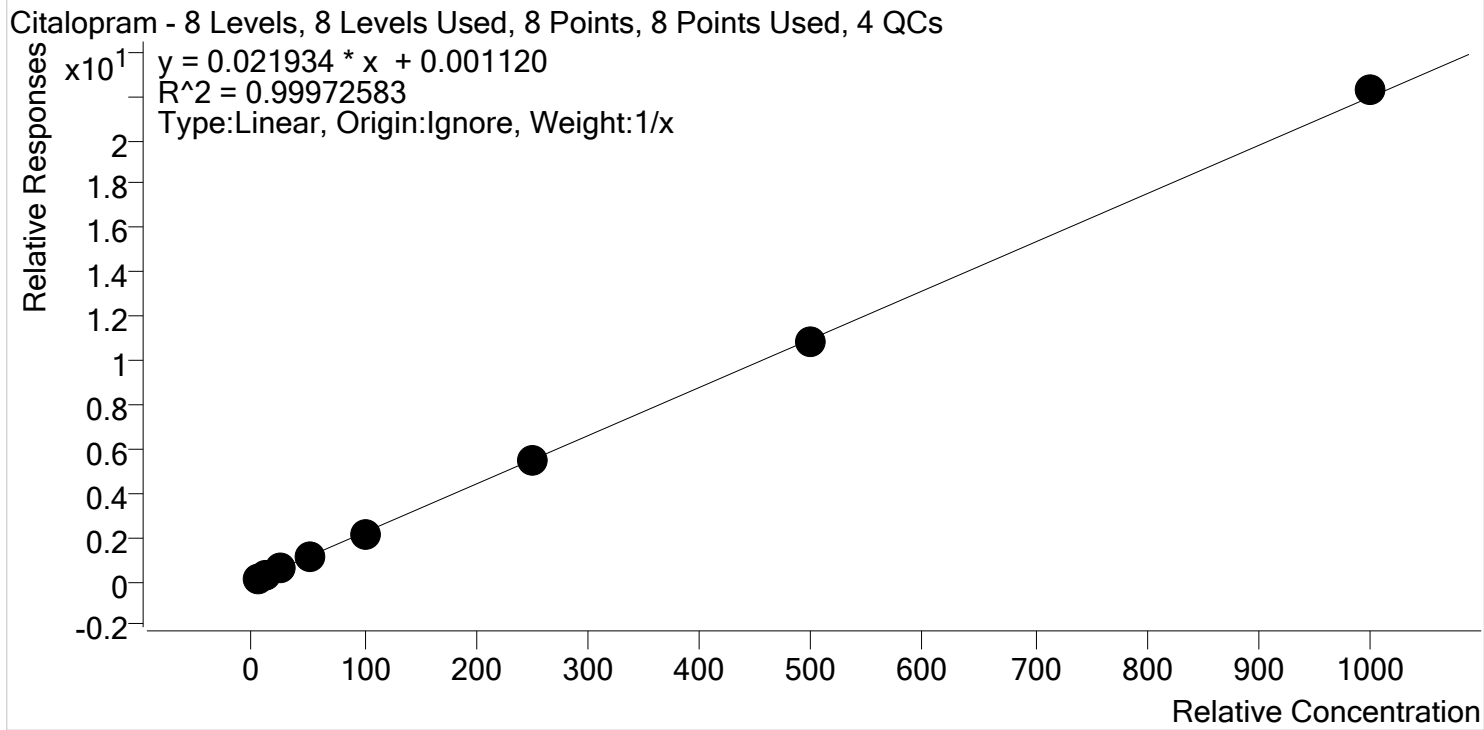


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.3
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	48.5	97.1
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng	7	✓	500.0	512.7	102.5
p1 Cal 8-1000ng	8	✓	1000.0	1081.6	108.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

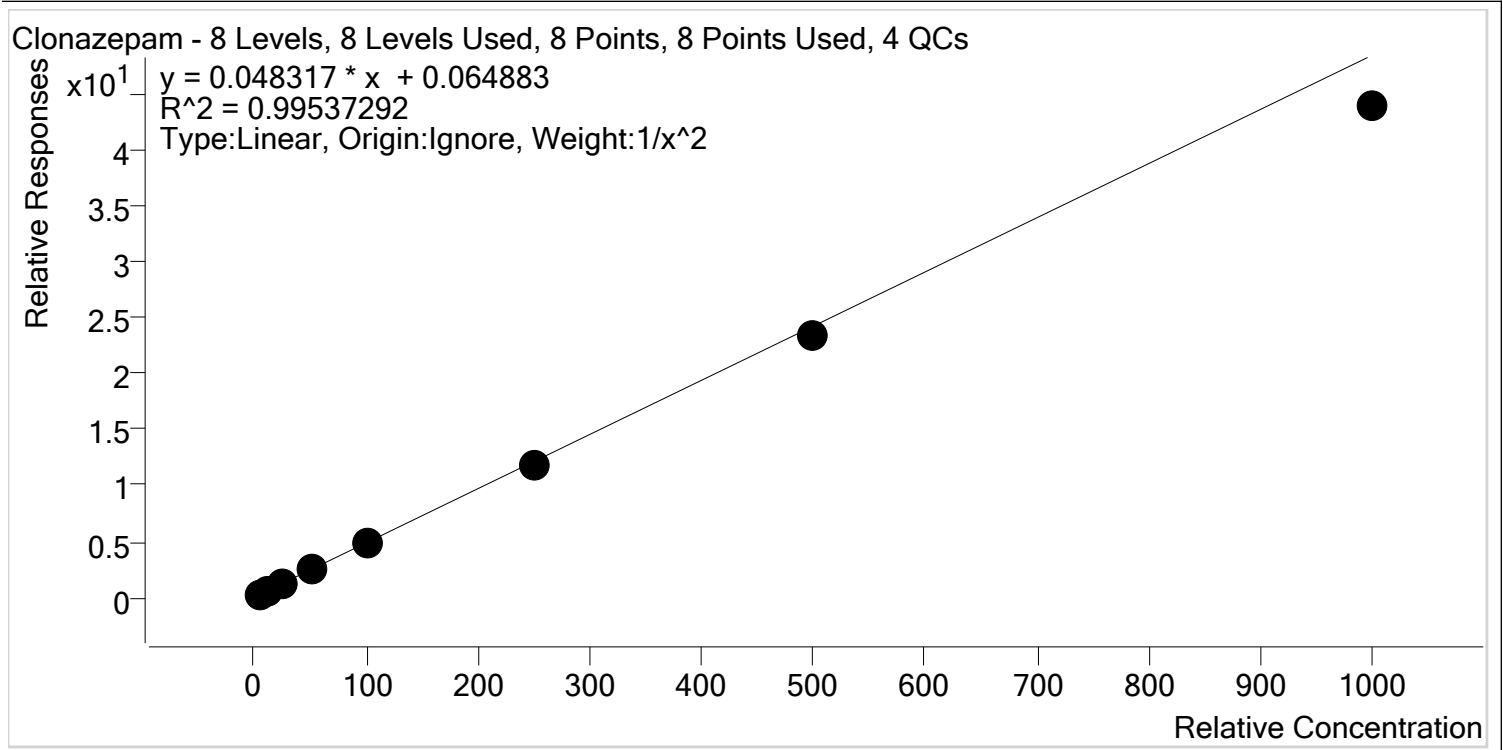


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	245.6	98.3
p1 Cal 7-500ng	7	✓	500.0	492.3	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1014.2	101.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

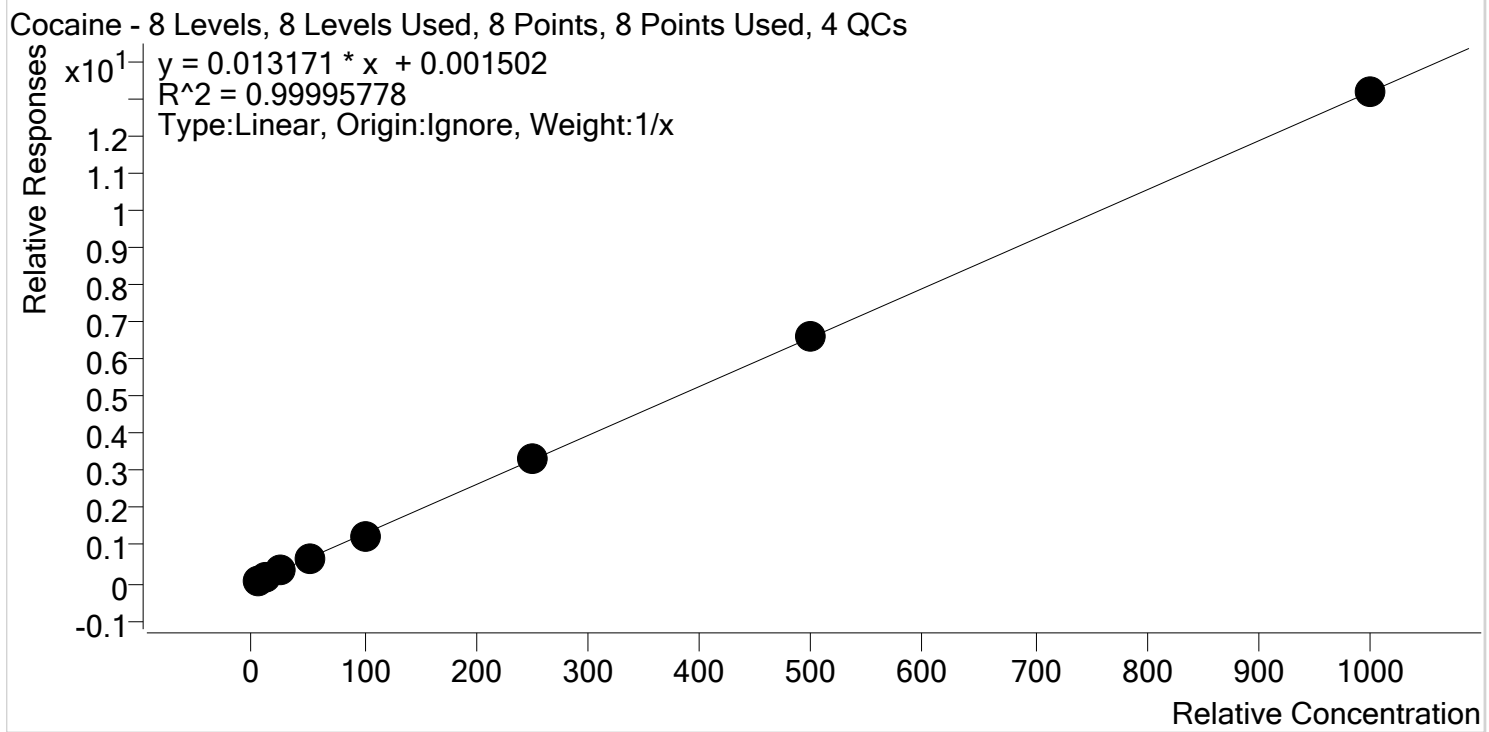


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.1
p1 Cal 4-50ng	4	✓	50.0	51.7	103.3
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	245.6	98.2
p1 Cal 7-500ng	7	✓	500.0	482.7	96.5
p1 Cal 8-1000ng	8	✓	1000.0	905.9	90.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 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	101.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	249.9	99.9
p1 Cal 7-500ng	7	✓	500.0	503.1	100.6
p1 Cal 8-1000ng	8	✓	1000.0	999.1	99.9



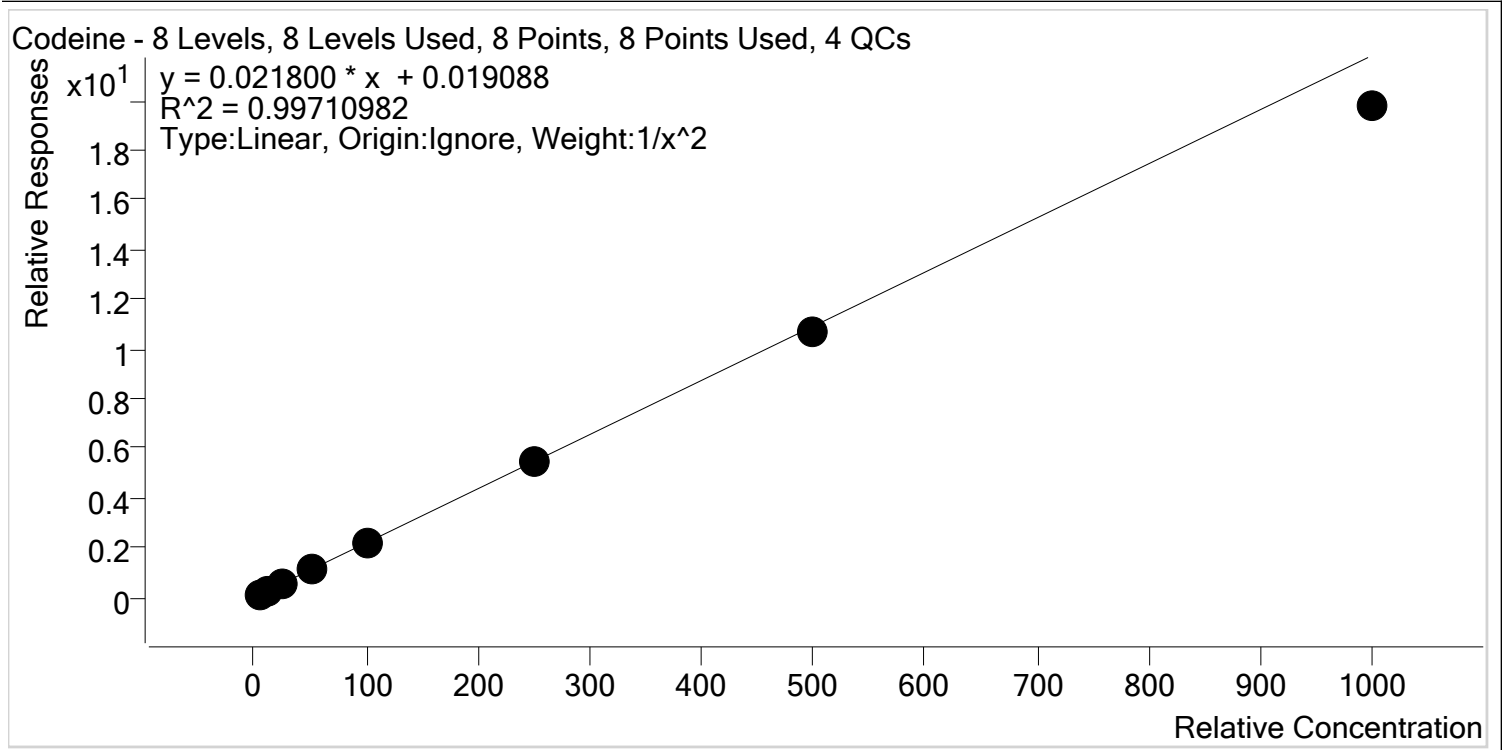
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.6
p1 Cal 4-50ng	4	✓	50.0	52.6	105.1
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	491.6	98.3
p1 Cal 8-1000ng	8	✓	1000.0	906.3	90.6

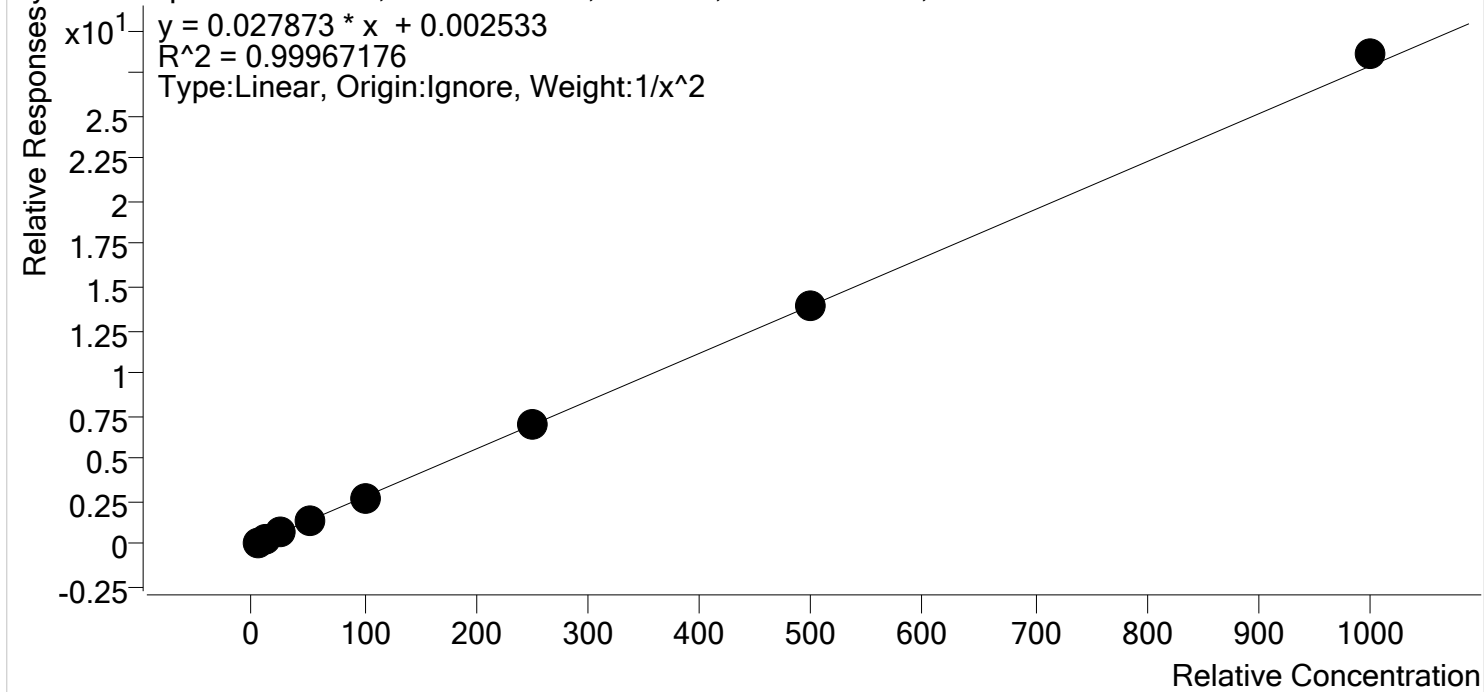




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

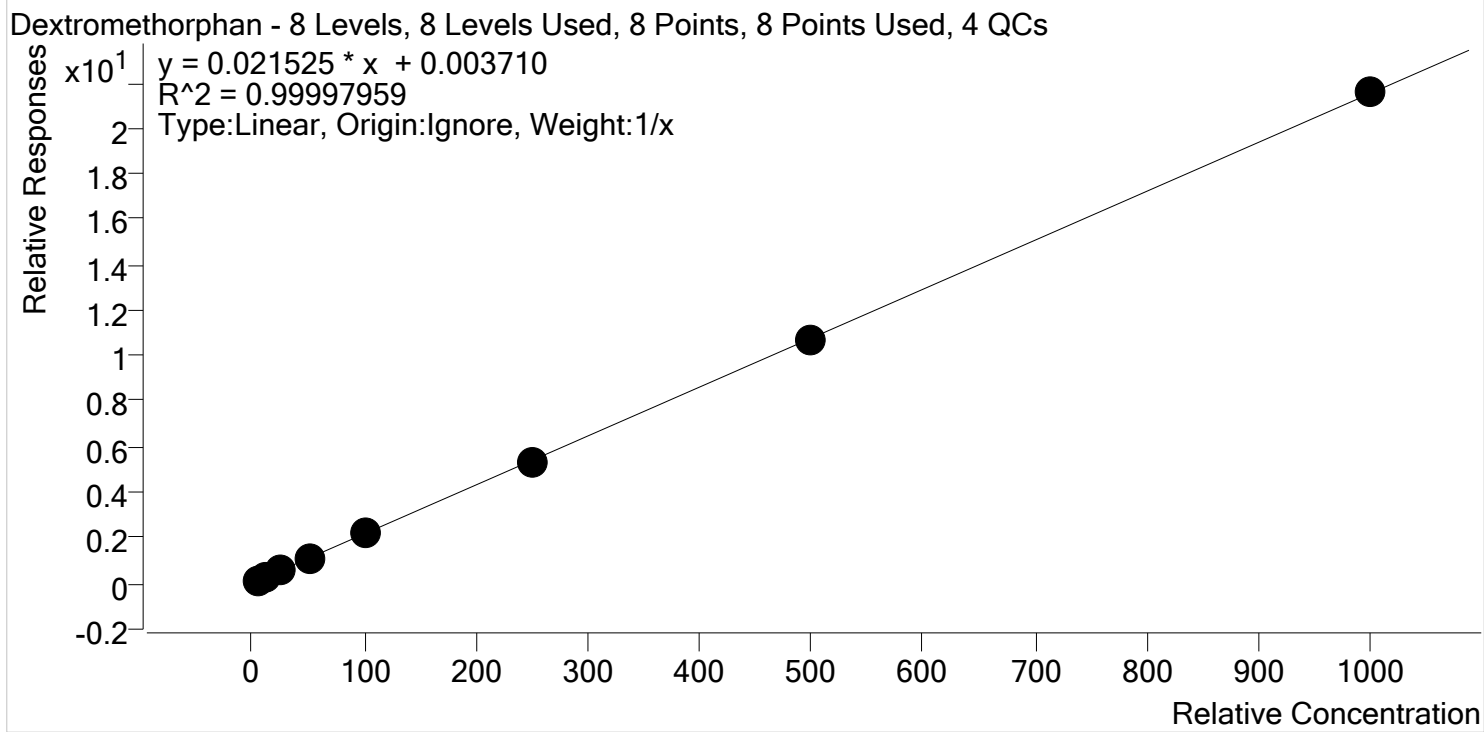


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1024.7	102.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

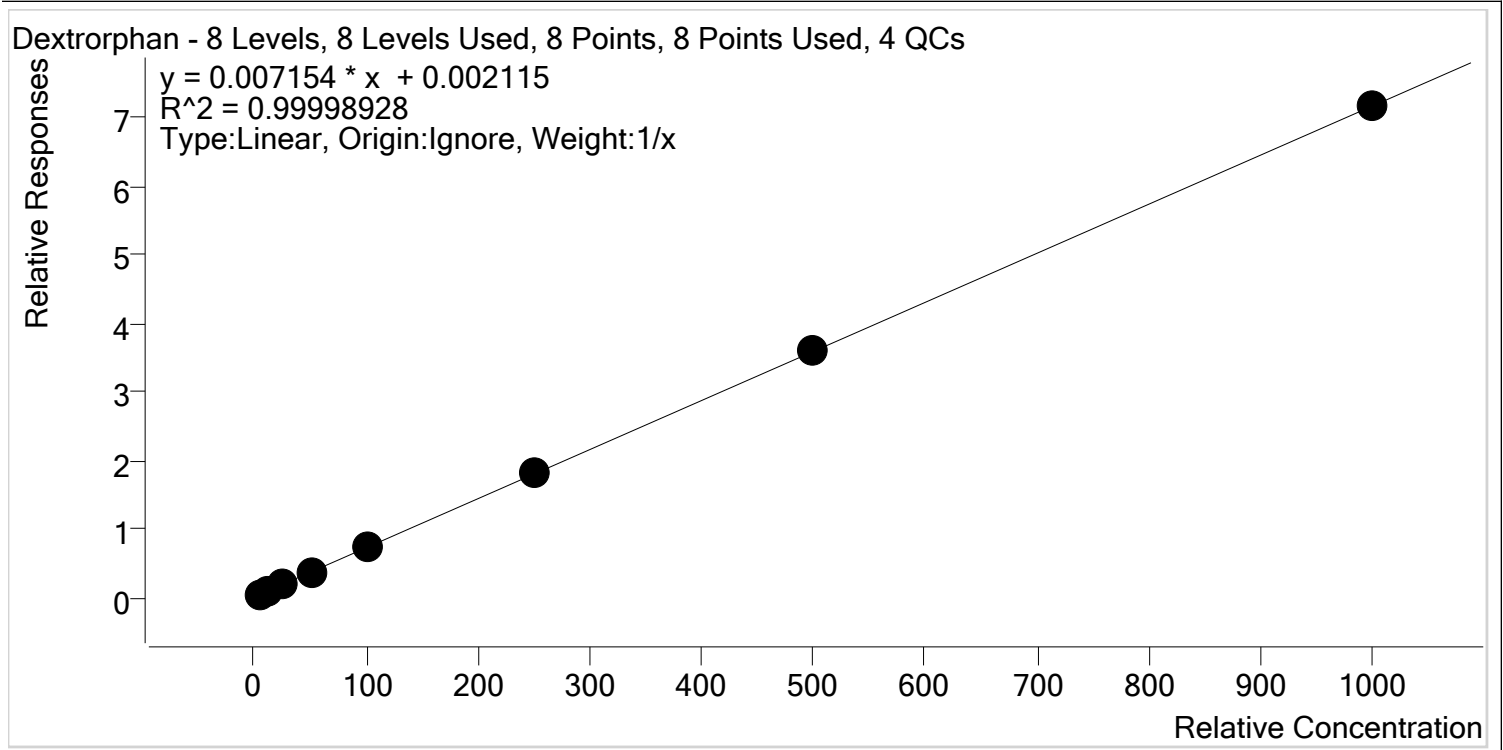


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1002.5	100.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

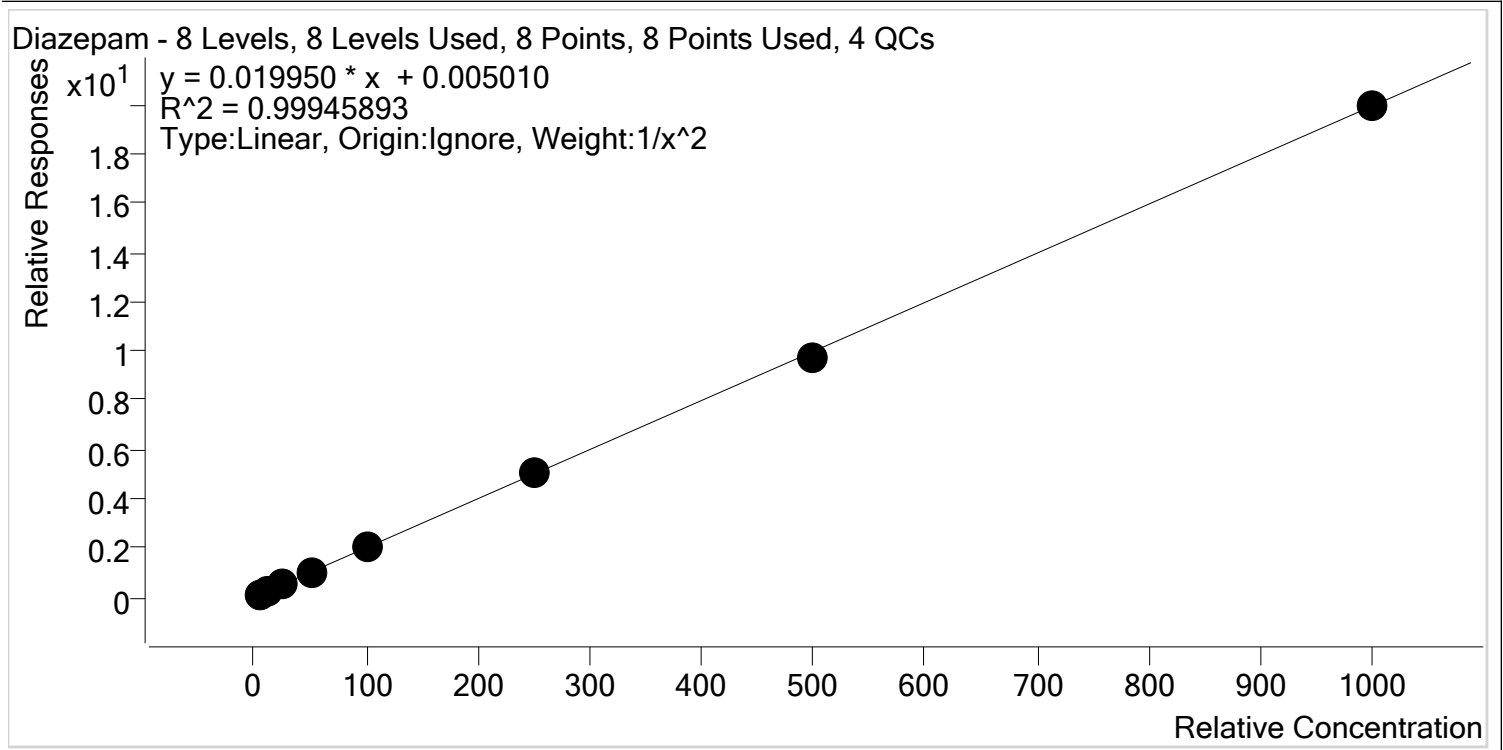


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	499.0	99.8
p1 Cal 8-1000ng	8	✓	1000.0	999.8	100.0



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



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	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.4
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	484.3	96.9
p1 Cal 8-1000ng	8	✓	1000.0	999.6	100.0



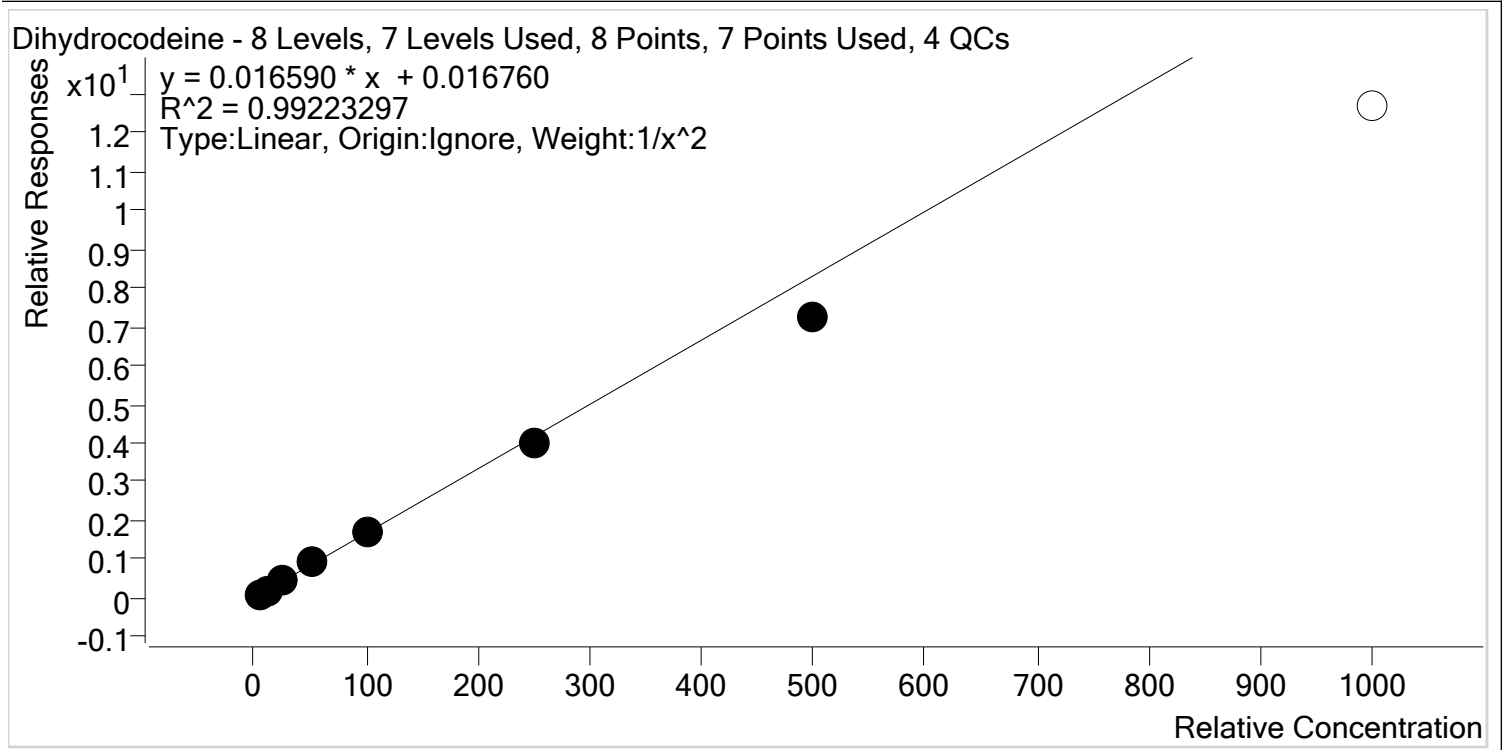
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.8
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	242.1	96.8
p1 Cal 7-500ng	7	✓	500.0	434.2	86.8
p1 Cal 8-1000ng	8	x	1000.0	763.5	76.3



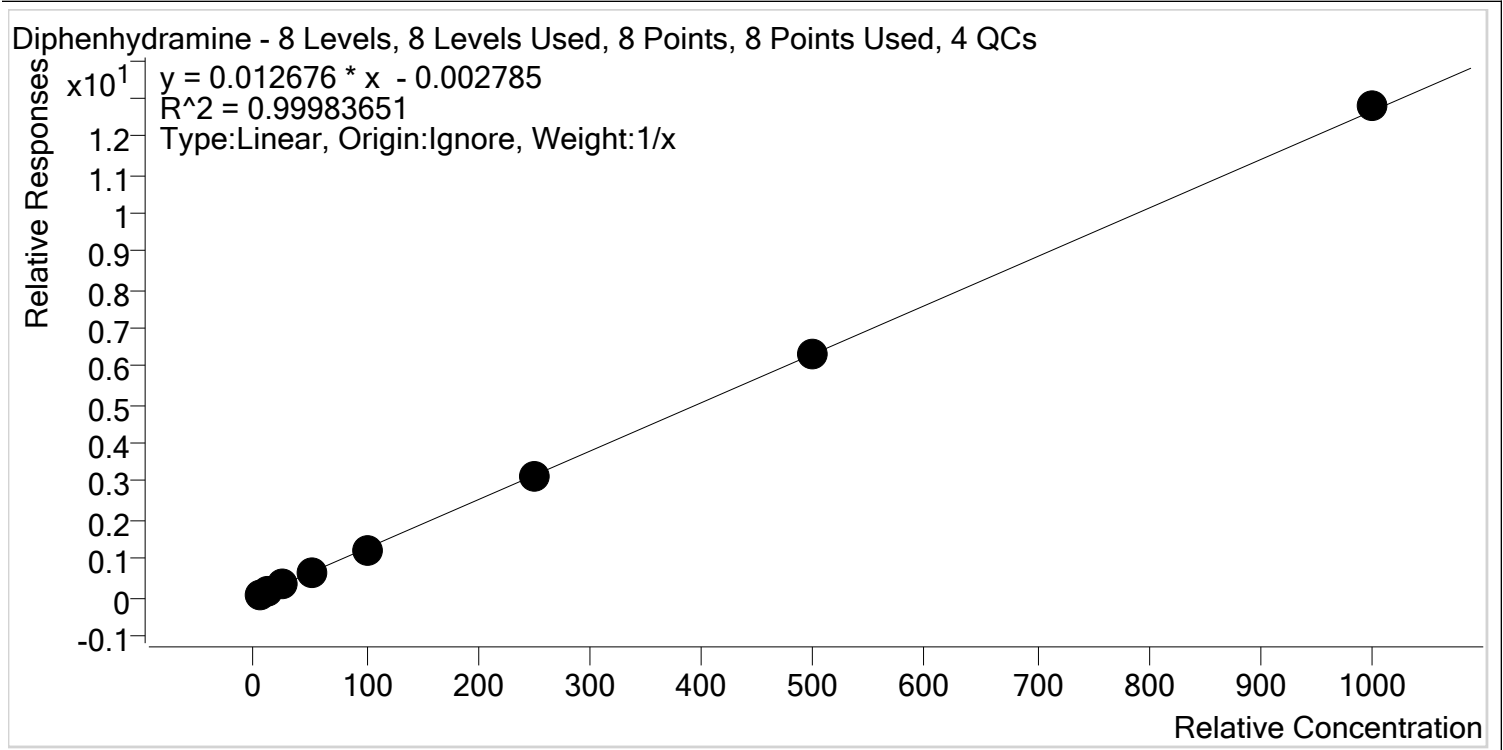
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.3	106.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	496.4	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1009.9	101.0

cg



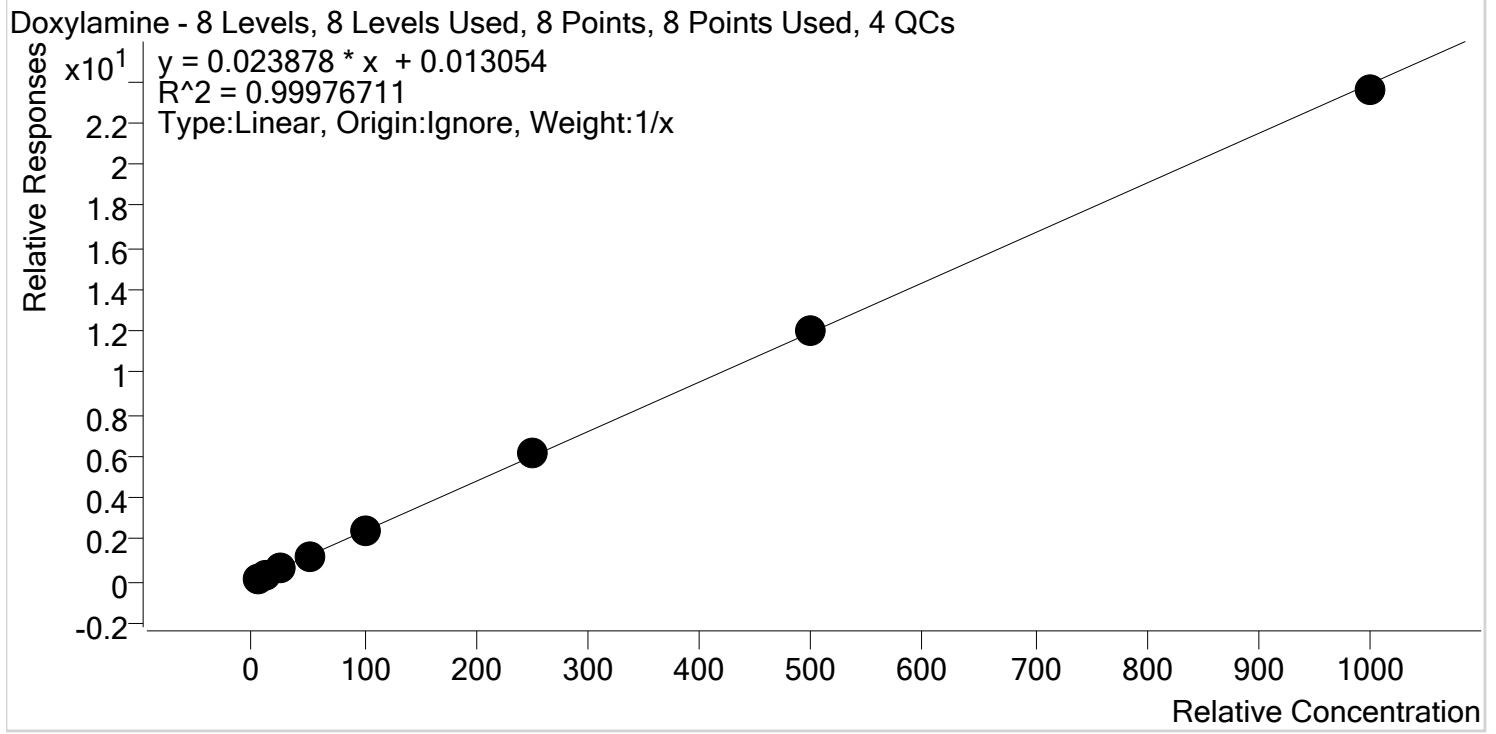
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



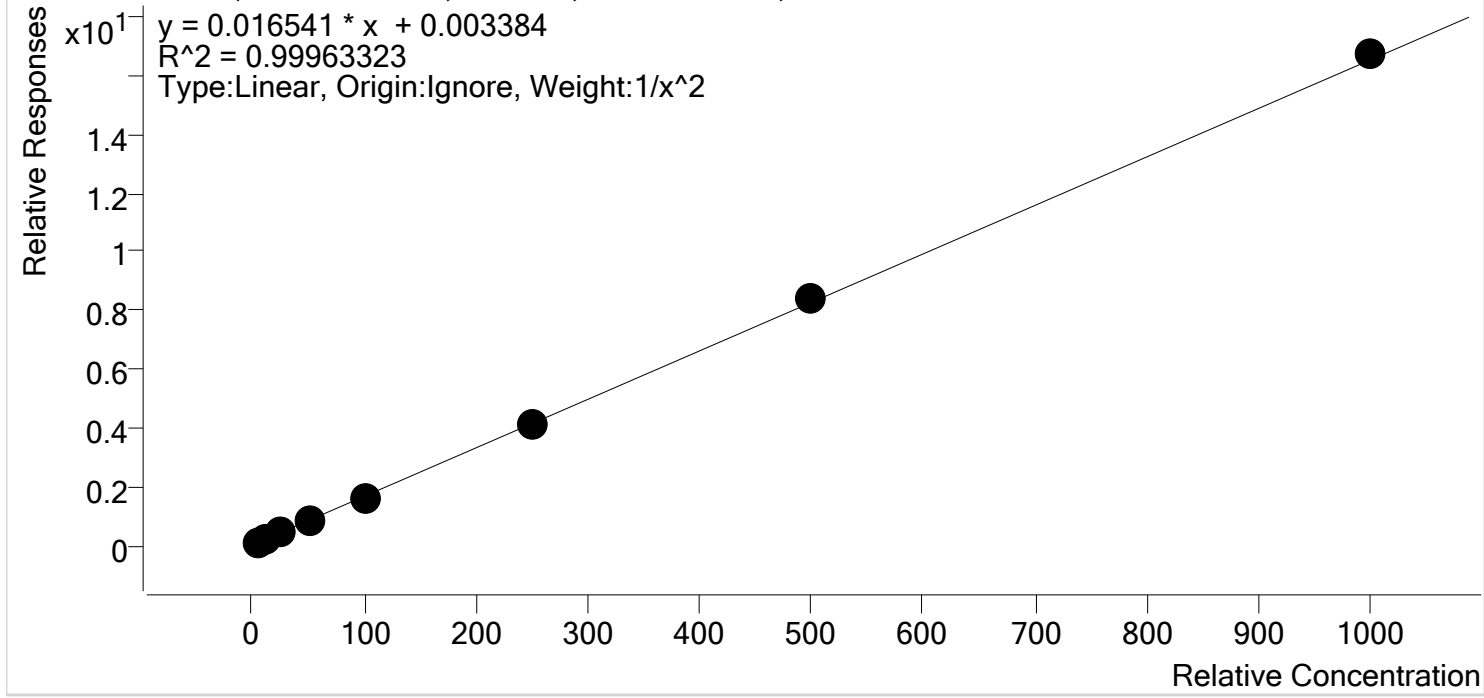
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	505.4	101.1
p1 Cal 8-1000ng	8	✓	1000.0	987.0	98.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 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	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng	7	✓	500.0	510.8	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2





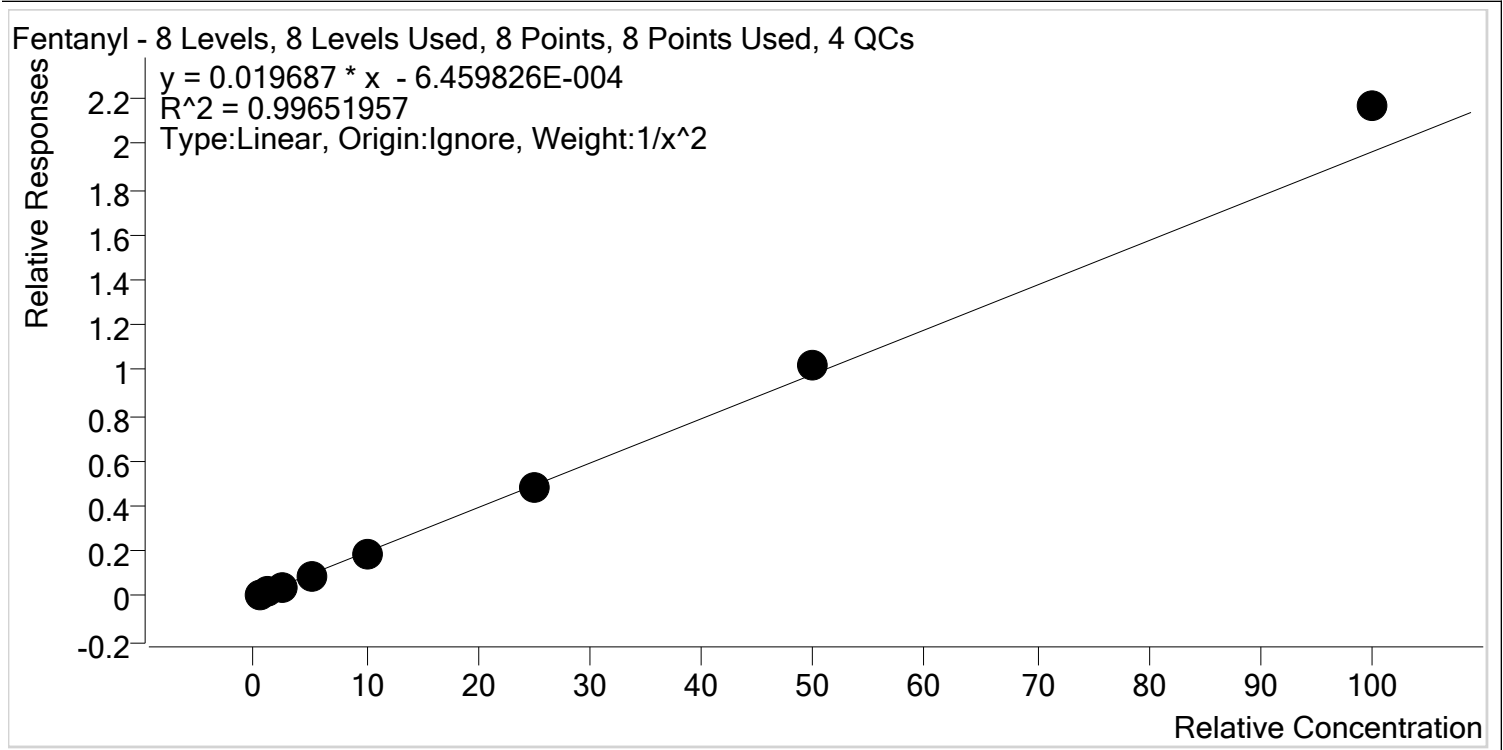
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

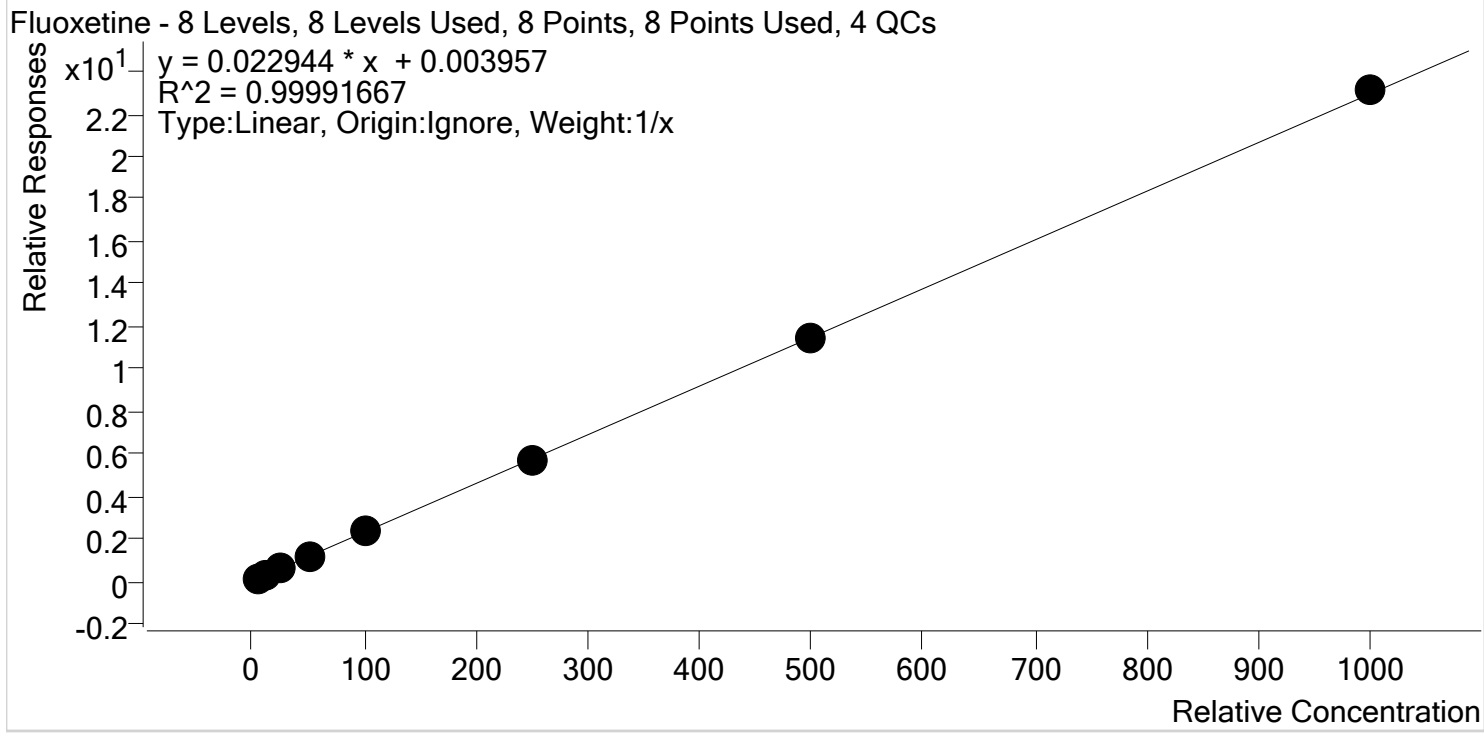


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.7
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.5
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.5
p1 Cal 4-50ng	4	✓	5.0	4.8	96.6
p1 Cal 5-100ng	5	✓	10.0	9.4	94.2
p1 Cal 6-250ng	6	✓	25.0	24.7	98.9
p1 Cal 7-500ng	7	✓	50.0	51.6	103.2
p1 Cal 8-1000ng	8	✓	100.0	110.2	110.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	246.4	98.6
p1 Cal 7-500ng	7	✓	500.0	496.4	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1007.5	100.7



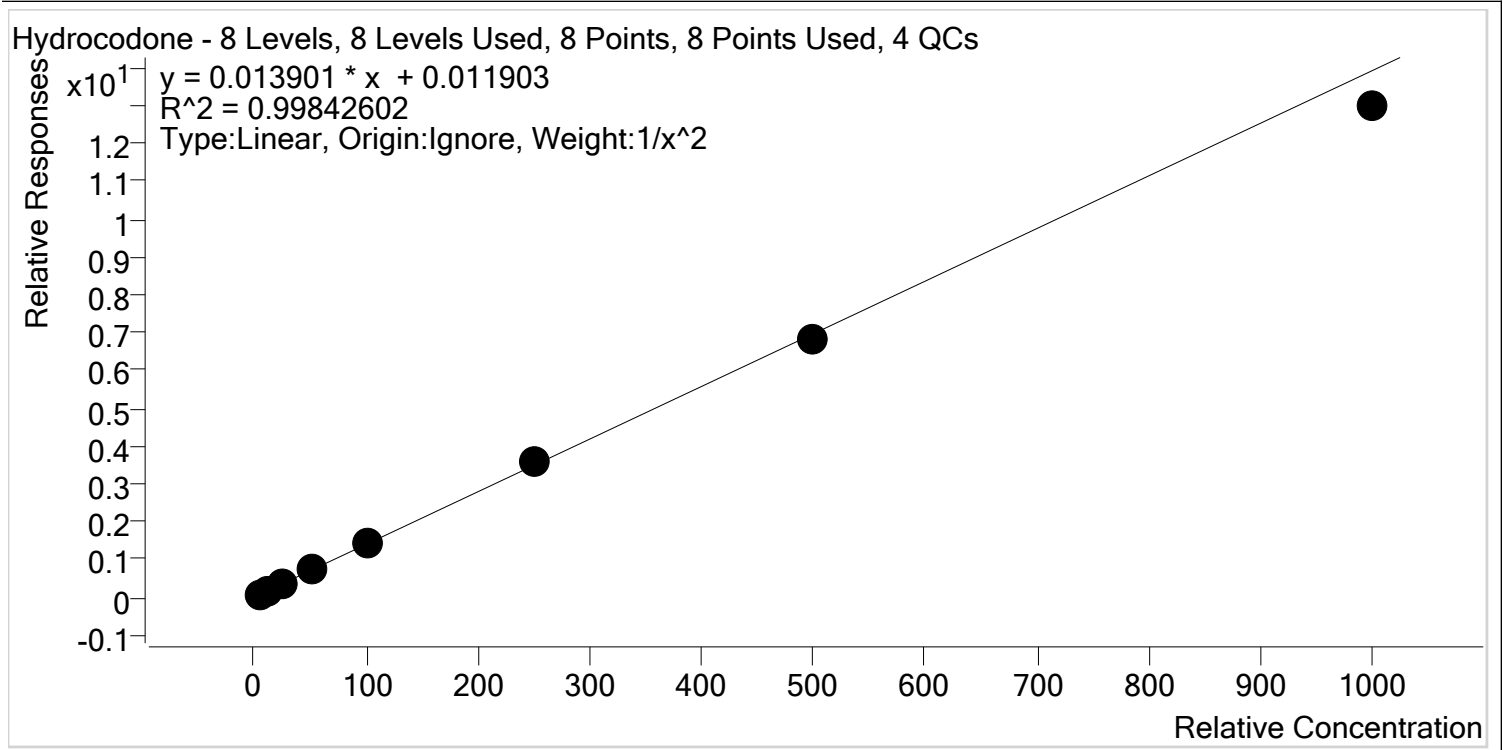
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

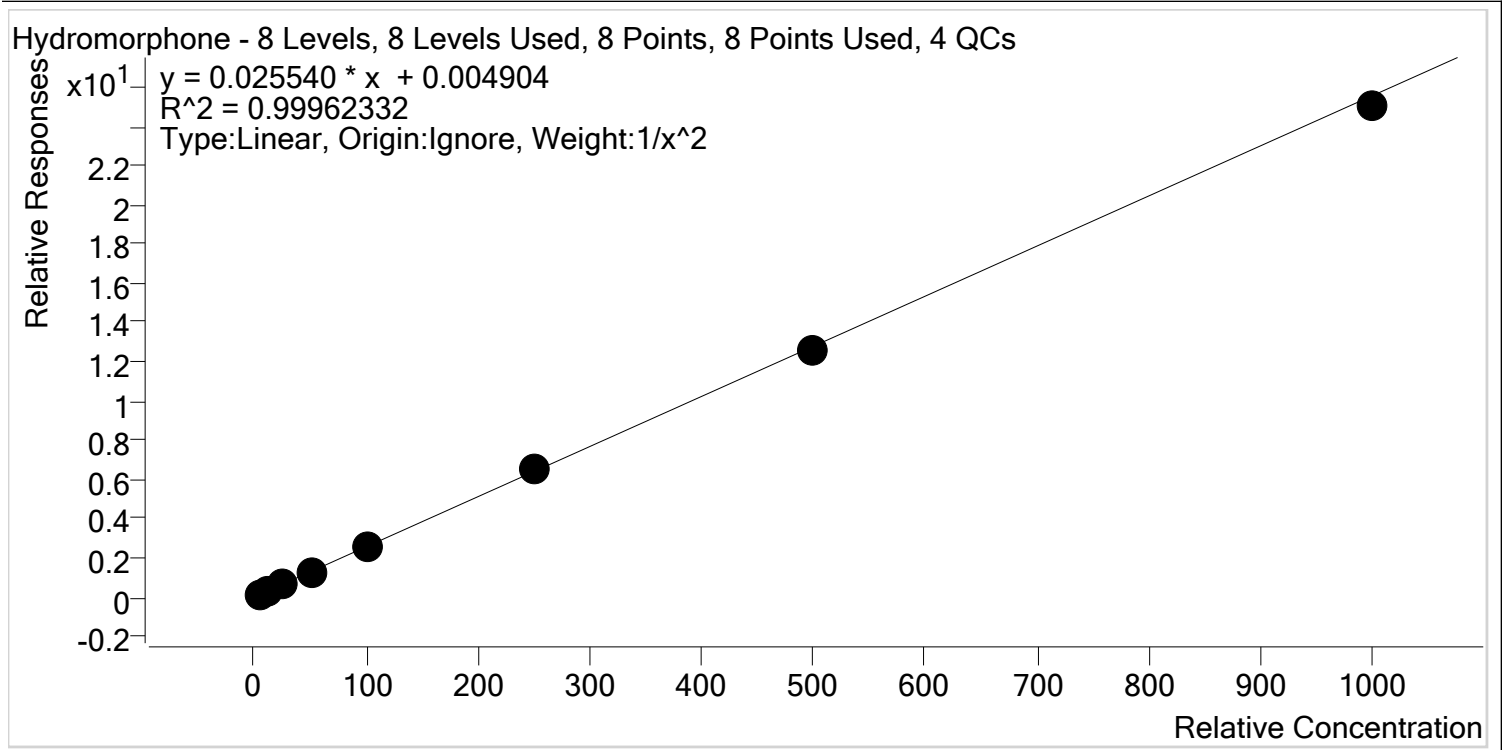


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	51.9	103.9
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	258.4	103.4
p1 Cal 7-500ng	7	✓	500.0	489.7	97.9
p1 Cal 8-1000ng	8	✓	1000.0	932.4	93.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 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	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	256.4	102.6
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	979.1	97.9



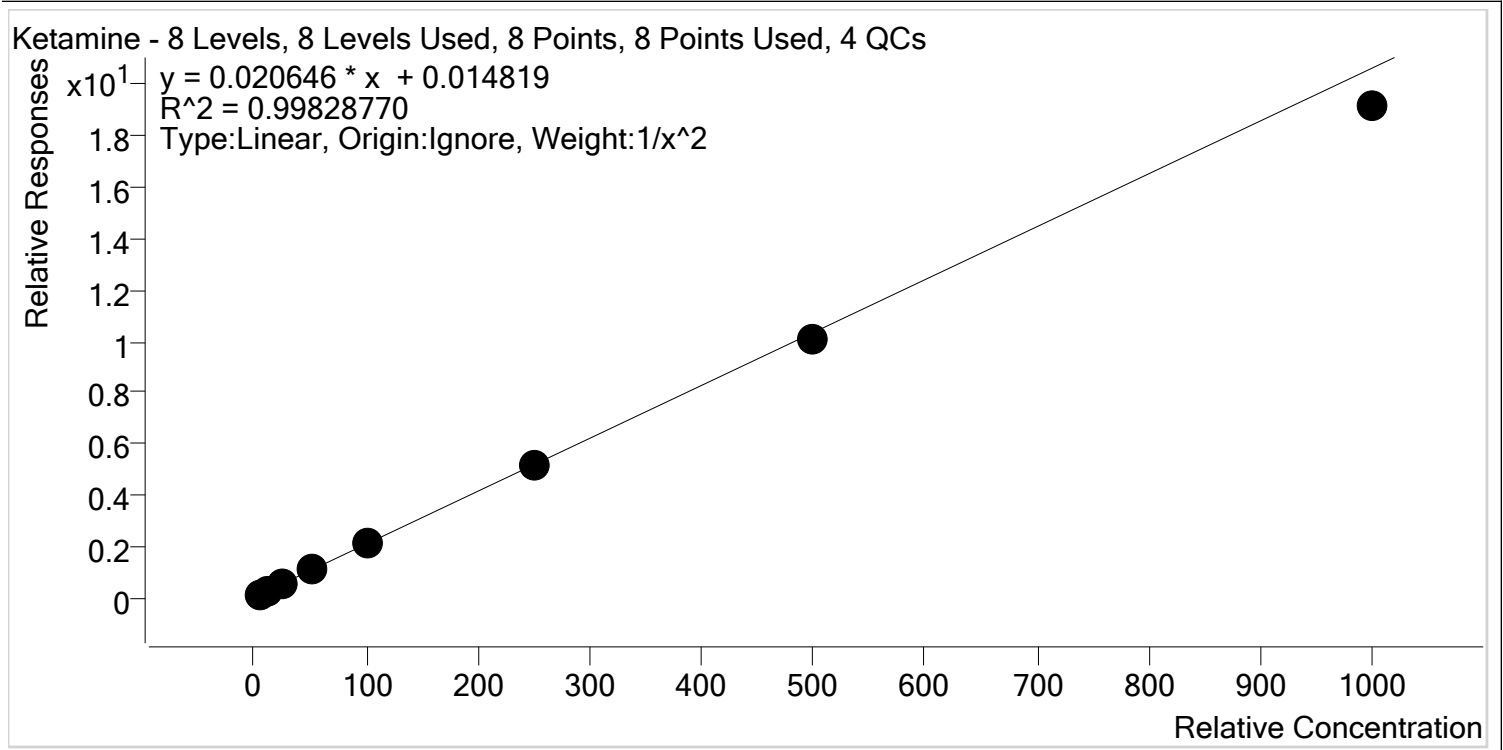
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Ketamine **Internal Standard** Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	52.2	104.3
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	252.4	100.9
p1 Cal 7-500ng	7	✓	500.0	489.5	97.9
p1 Cal 8-1000ng	8	✓	1000.0	927.8	92.8

CS



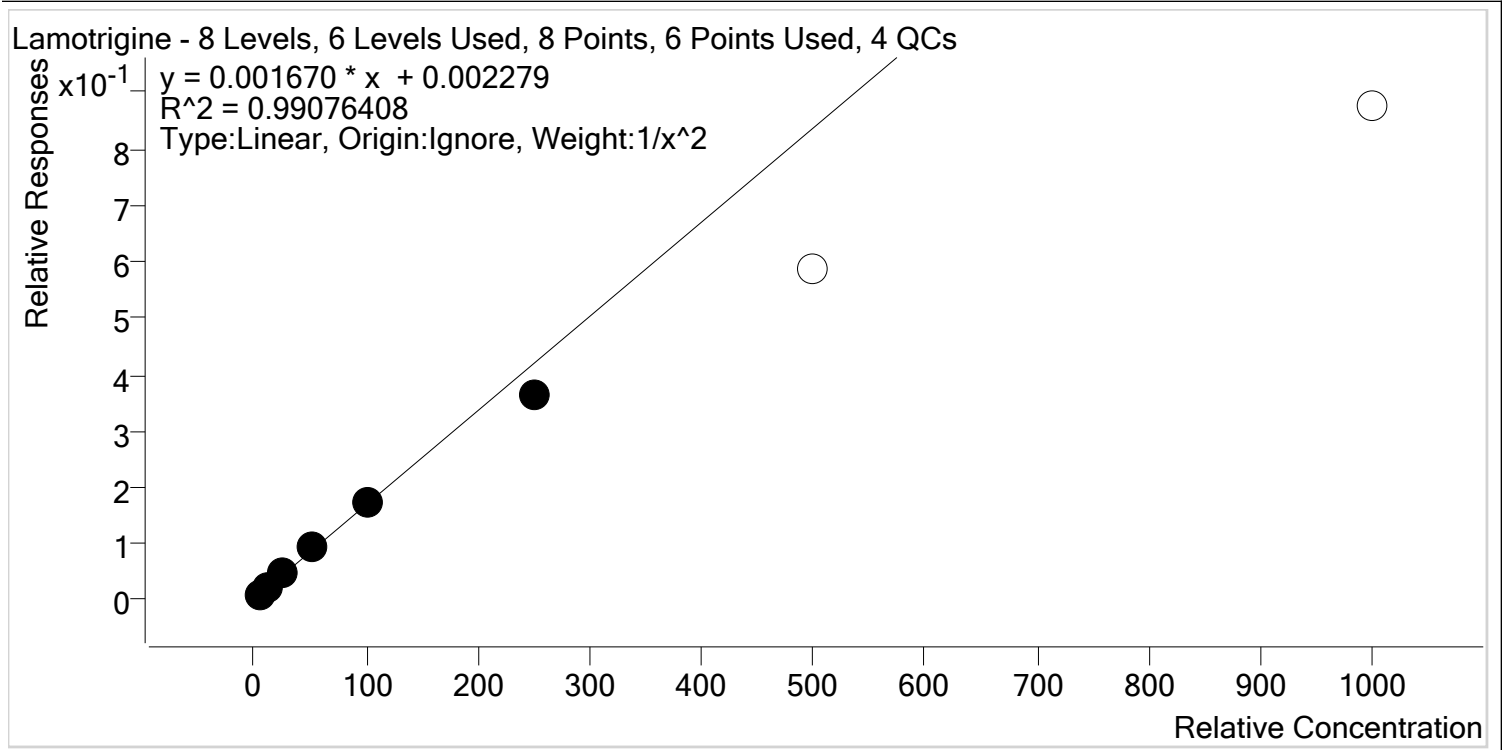
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

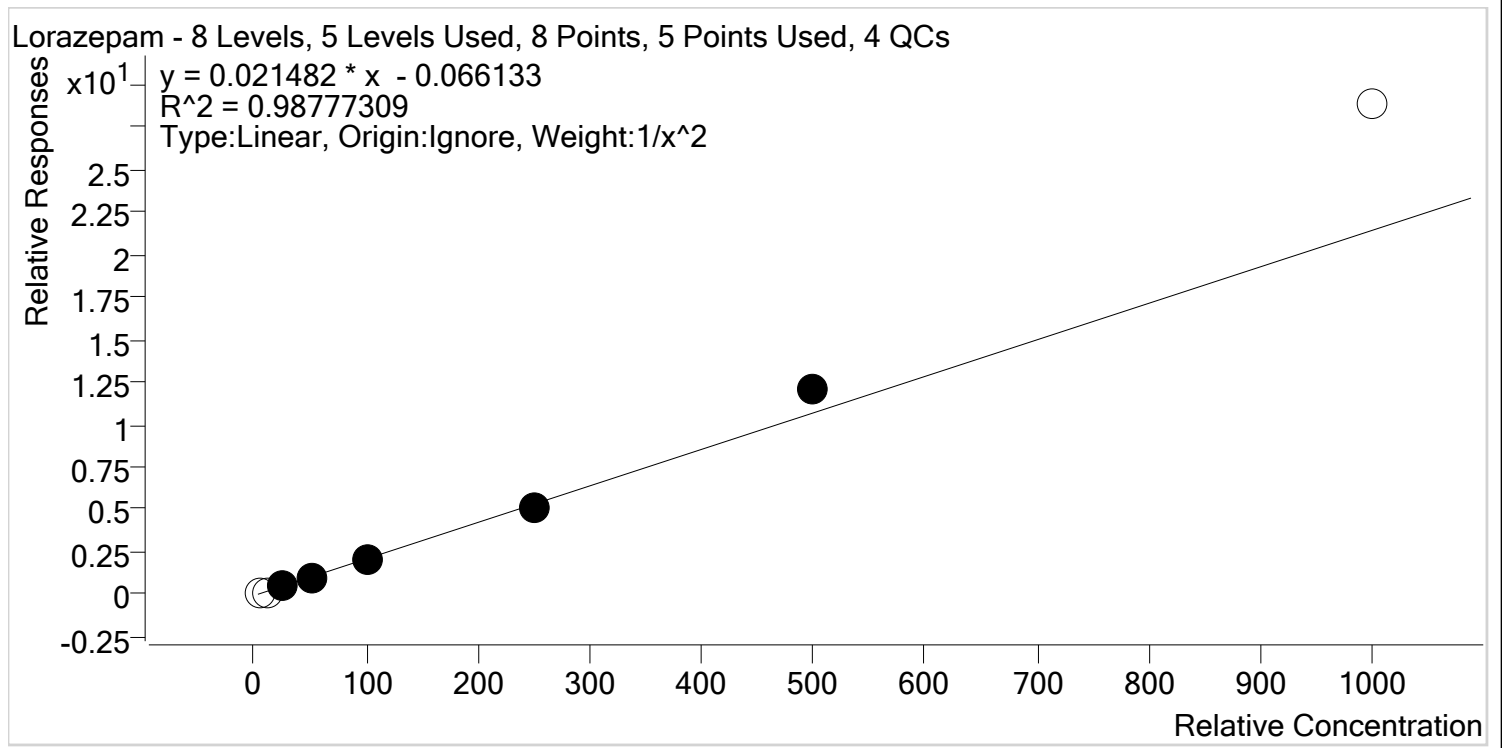


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng	4	✓	50.0	54.4	108.7
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	215.1	86.1
p1 Cal 7-500ng	7	✗	500.0	349.0	69.8
p1 Cal 8-1000ng	8	✗	1000.0	523.0	52.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	8.4	167.4
p1 Cal 2- 10ng	2	x	10.0	11.4	114.2
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	46.2	92.4
p1 Cal 5-100ng	5	✓	100.0	94.9	94.9
p1 Cal 6-250ng	6	✓	250.0	238.5	95.4
p1 Cal 7-500ng	7	✓	500.0	561.8	112.4
p1 Cal 8-1000ng	8	x	1000.0	1345.4	134.5

CS



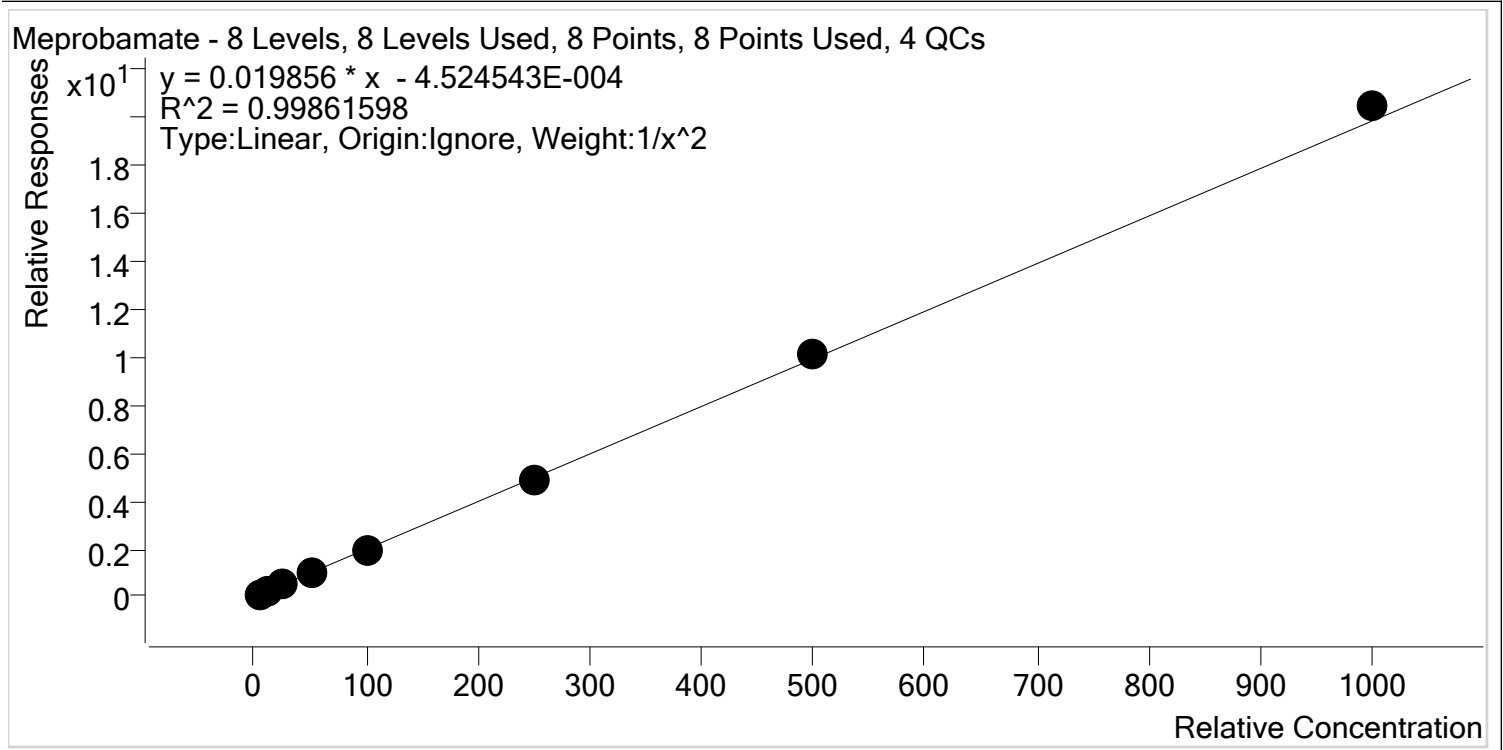
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



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	10.3	103.5
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	93.6	93.6
p1 Cal 6-250ng	6	✓	250.0	246.8	98.7
p1 Cal 7-500ng	7	✓	500.0	510.8	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1030.9	103.1





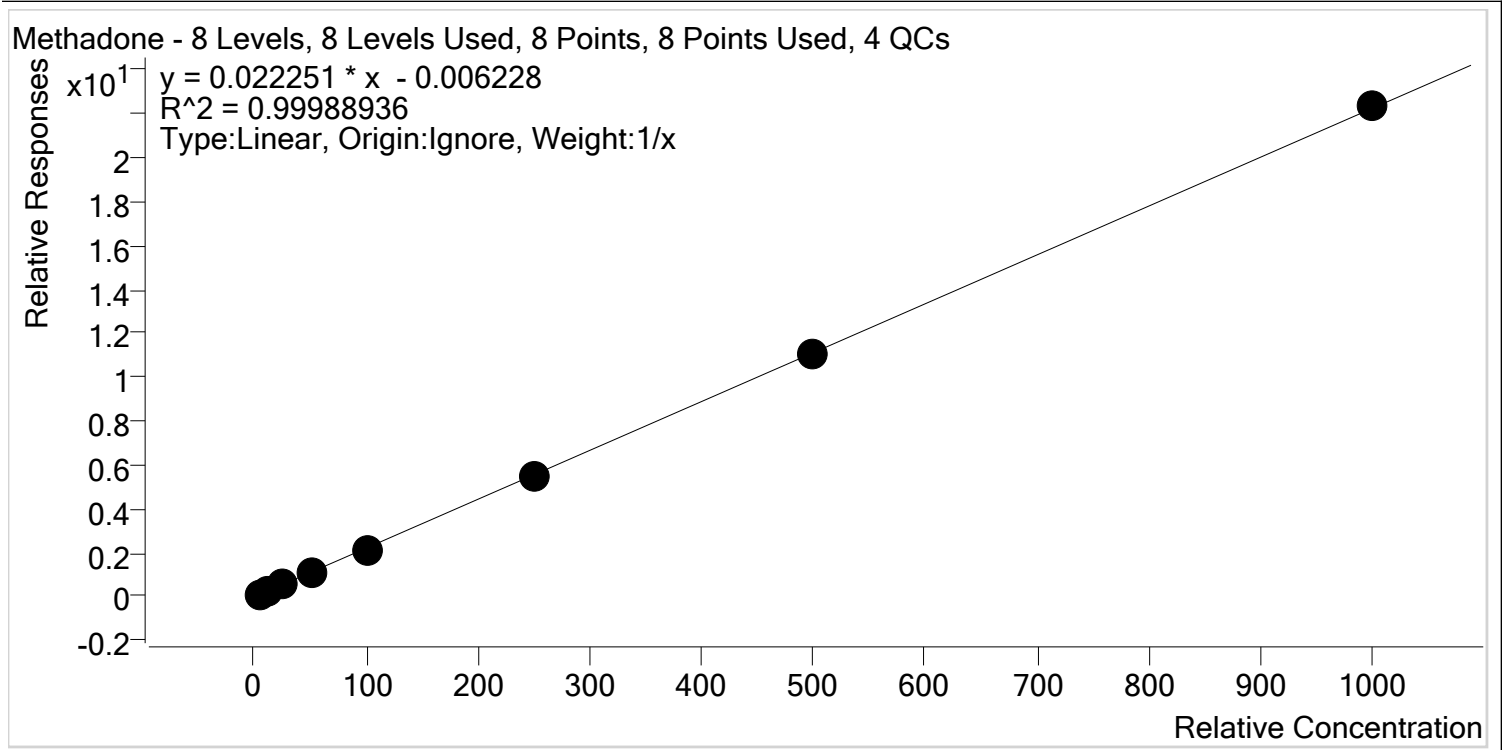
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.3	106.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	500.4	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1004.4	100.4



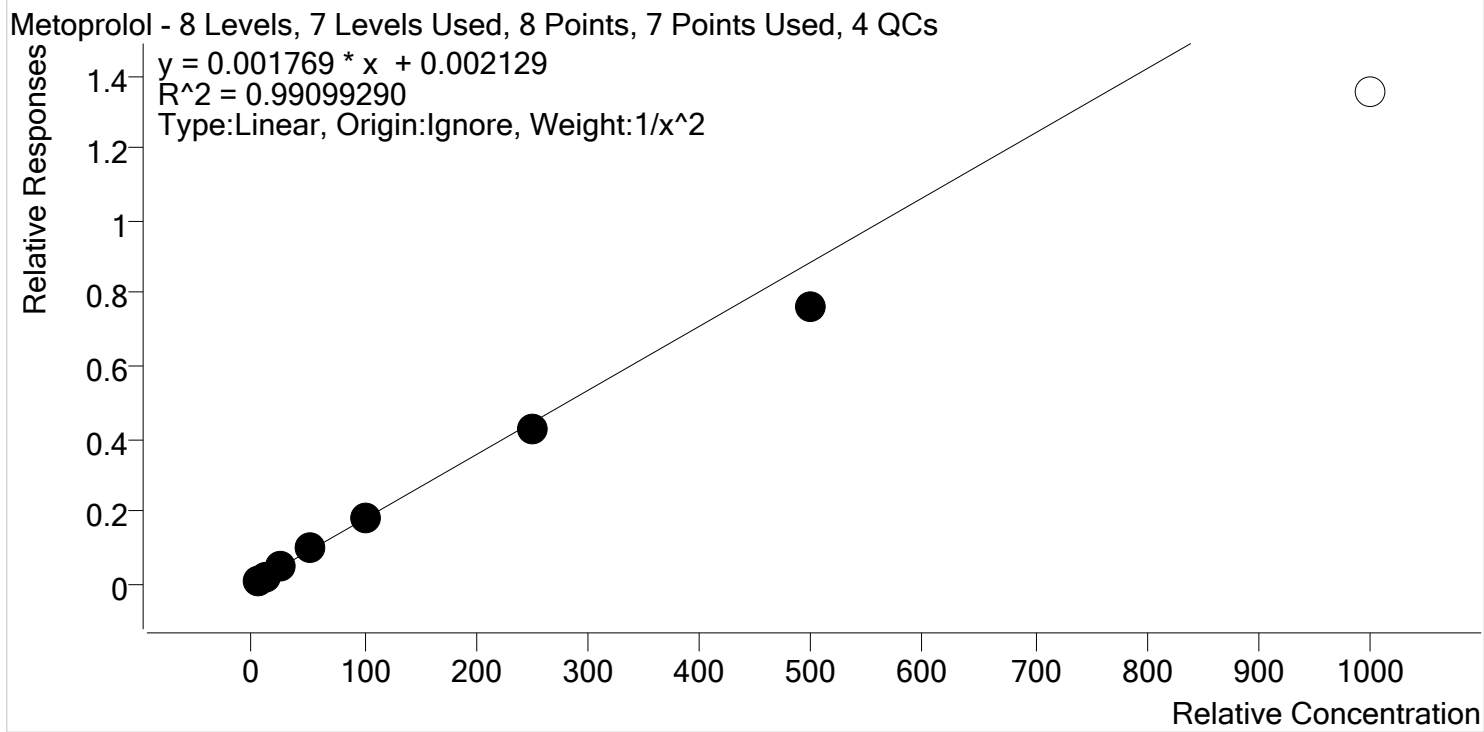
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

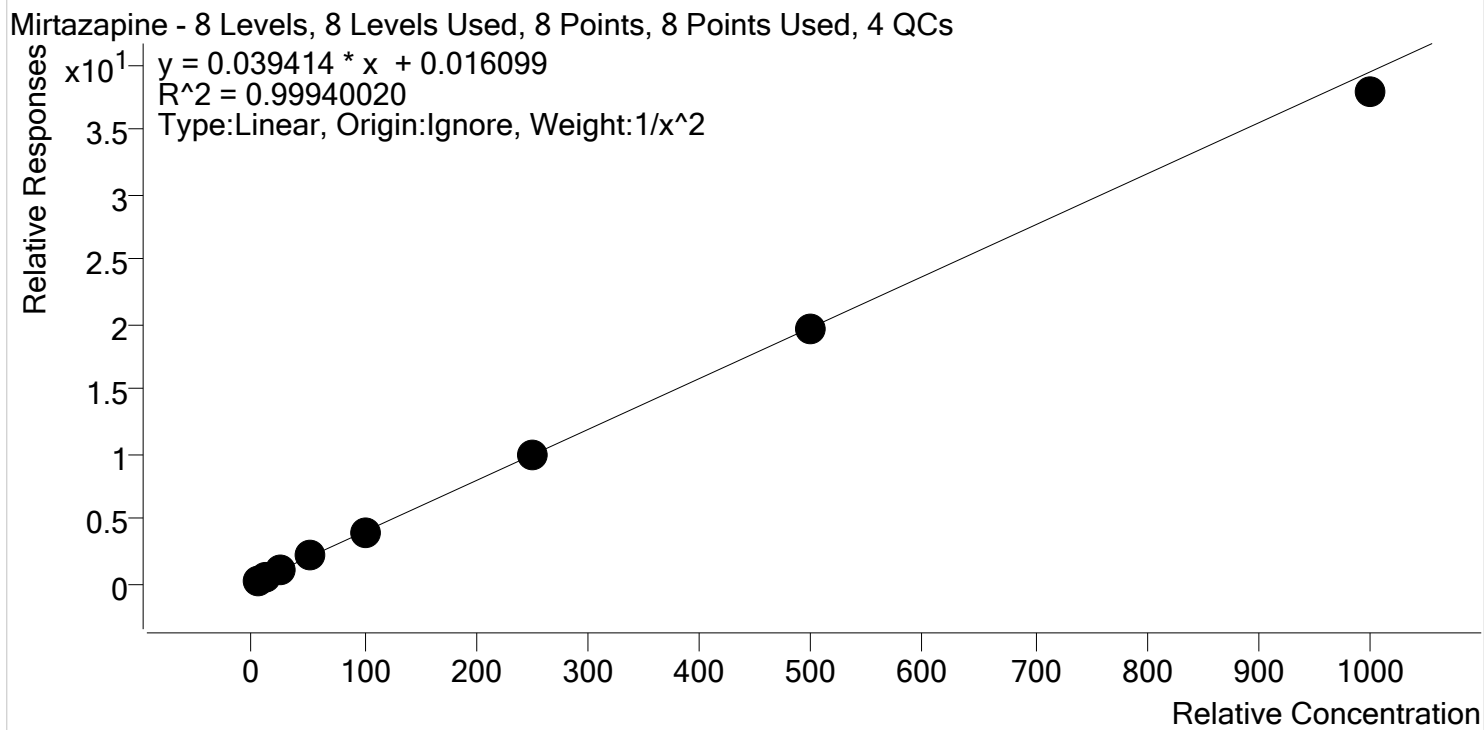


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.7
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	54.6	109.2
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	240.7	96.3
p1 Cal 7-500ng	7	✓	500.0	430.1	86.0
p1 Cal 8-1000ng	8	x	1000.0	763.7	76.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	494.2	98.8
p1 Cal 8-1000ng	8	✓	1000.0	960.1	96.0

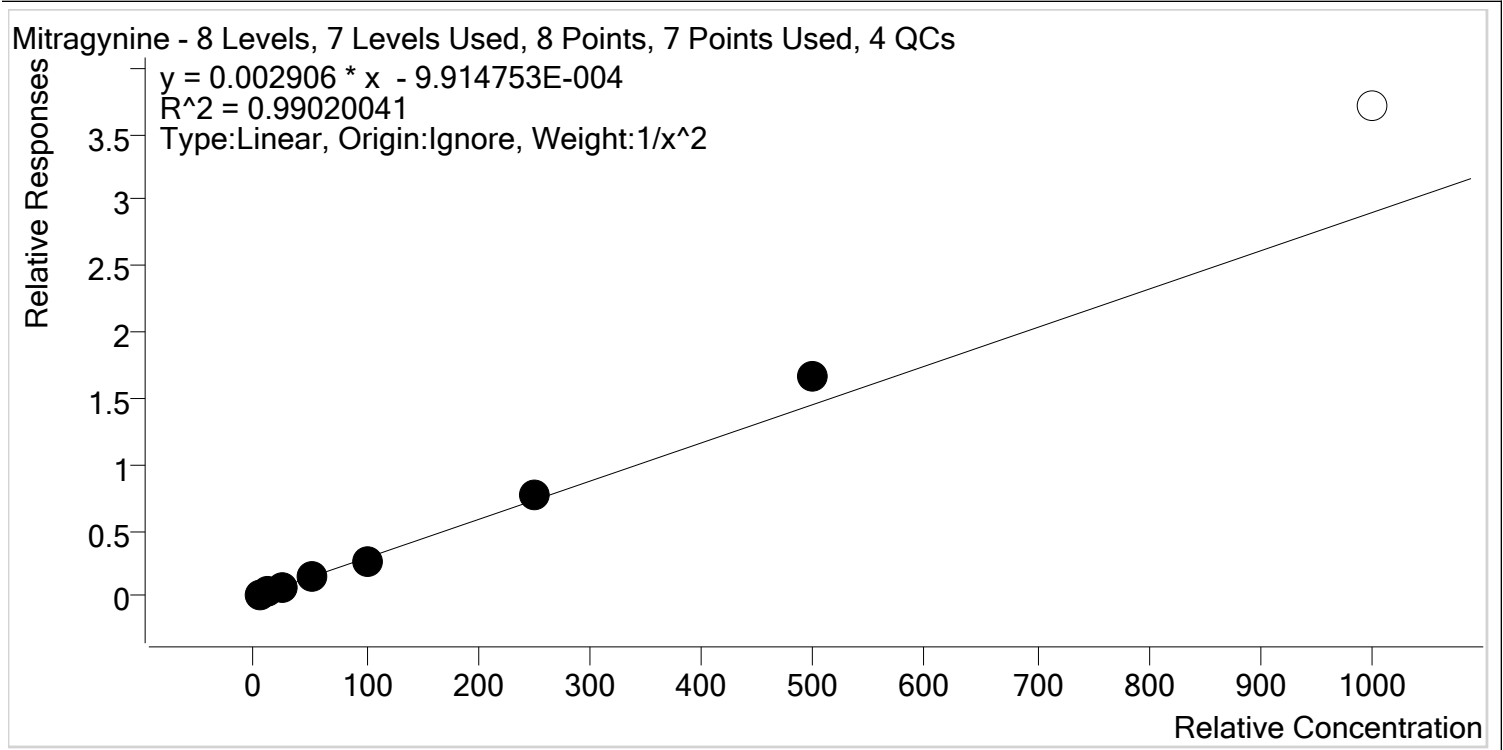
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Mitragynine **Internal Standard** Methadone-D9



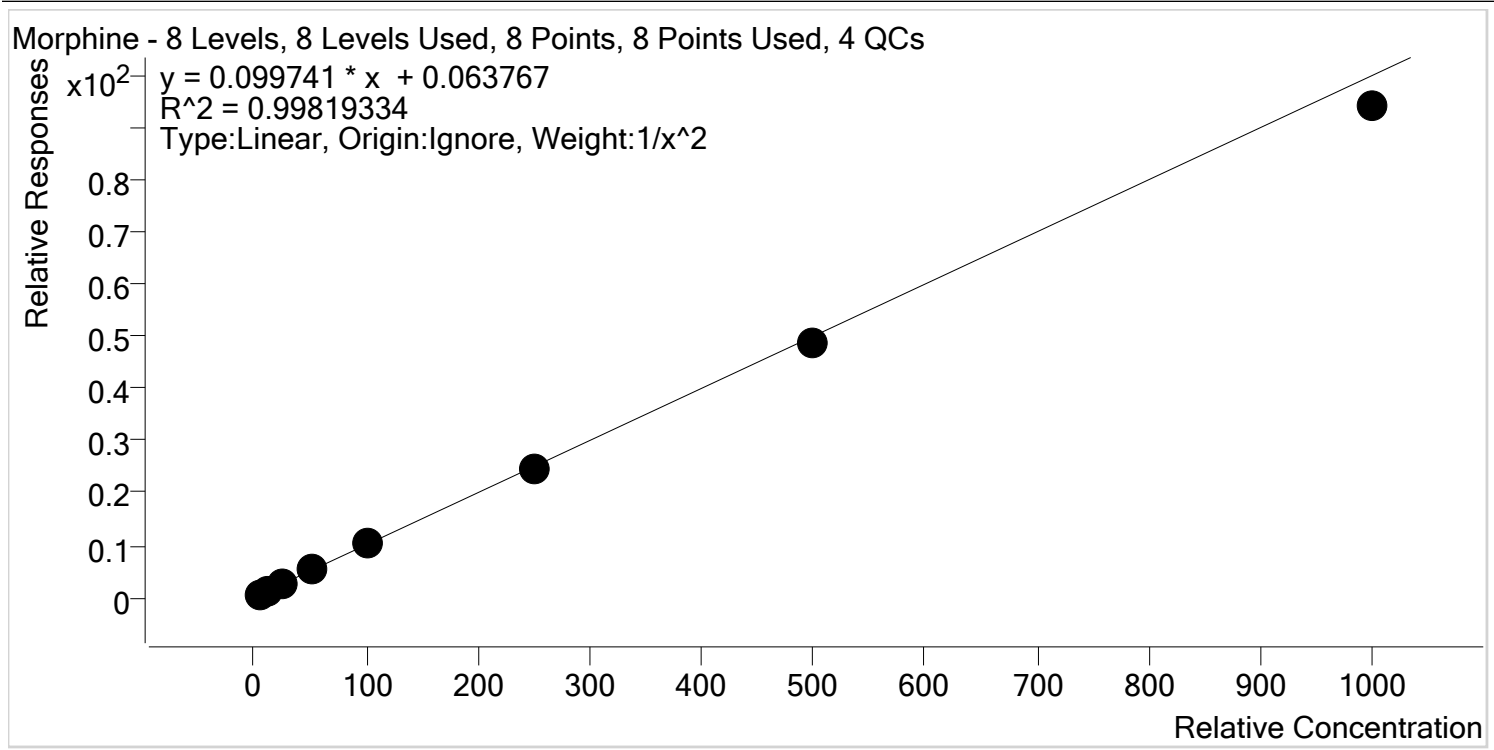
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.2
p1 Cal 2- 10ng	2	✓	10.0	9.4	93.8
p1 Cal 3 -25ng	3	✓	25.0	23.0	92.1
p1 Cal 4-50ng	4	✓	50.0	47.5	95.0
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	262.3	104.9
p1 Cal 7-500ng	7	✓	500.0	573.3	114.7
p1 Cal 8-1000ng	8	x	1000.0	1276.8	127.7

cg



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 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	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	486.3	97.3
p1 Cal 8-1000ng	8	✓	1000.0	941.0	94.1

cg



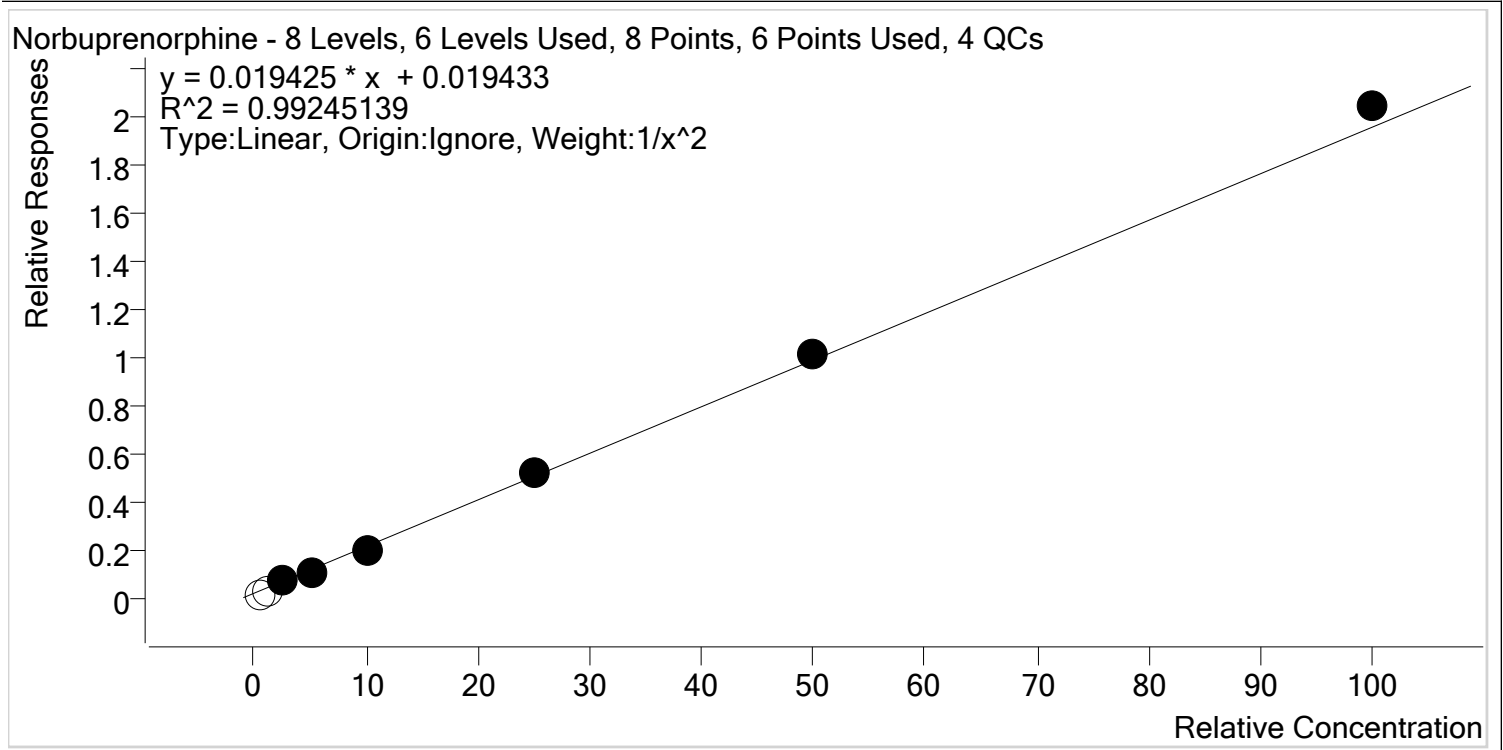
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.0	0.0
p1 Cal 2- 10ng	2	x	1.0	0.0	3.8
p1 Cal 3 -25ng	3	✓	2.5	2.7	106.2
p1 Cal 4-50ng	4	✓	5.0	4.5	89.9
p1 Cal 5-100ng	5	✓	10.0	9.3	92.6
p1 Cal 6-250ng	6	✓	25.0	26.2	104.7
p1 Cal 7-500ng	7	✓	50.0	51.1	102.2
p1 Cal 8-1000ng	8	✓	100.0	104.5	104.5

g



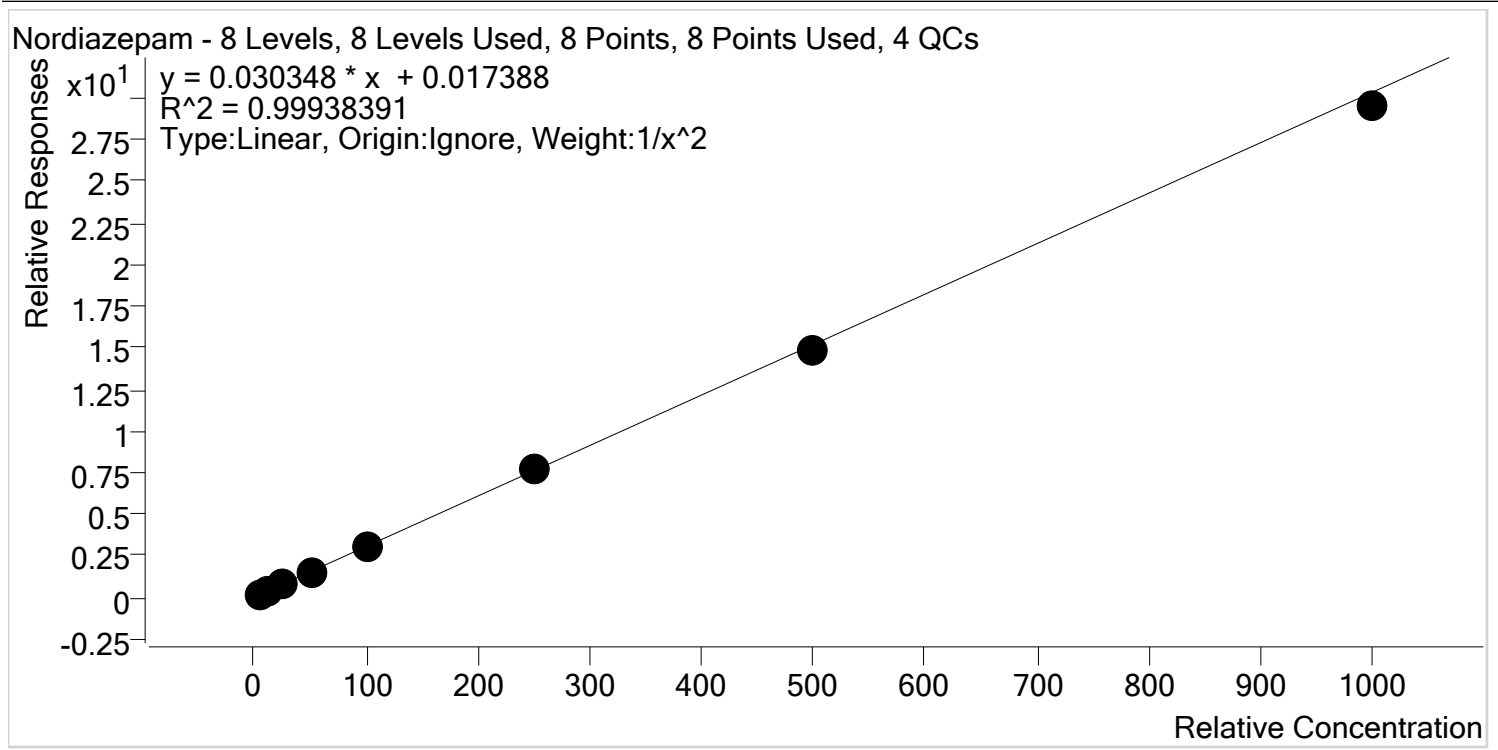
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.5
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	50.7	101.3
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	255.8	102.3
p1 Cal 7-500ng	7	✓	500.0	489.0	97.8
p1 Cal 8-1000ng	8	✓	1000.0	972.3	97.2

CS



# AM #28 Multi-Drug Quant. Calibration Curve Report

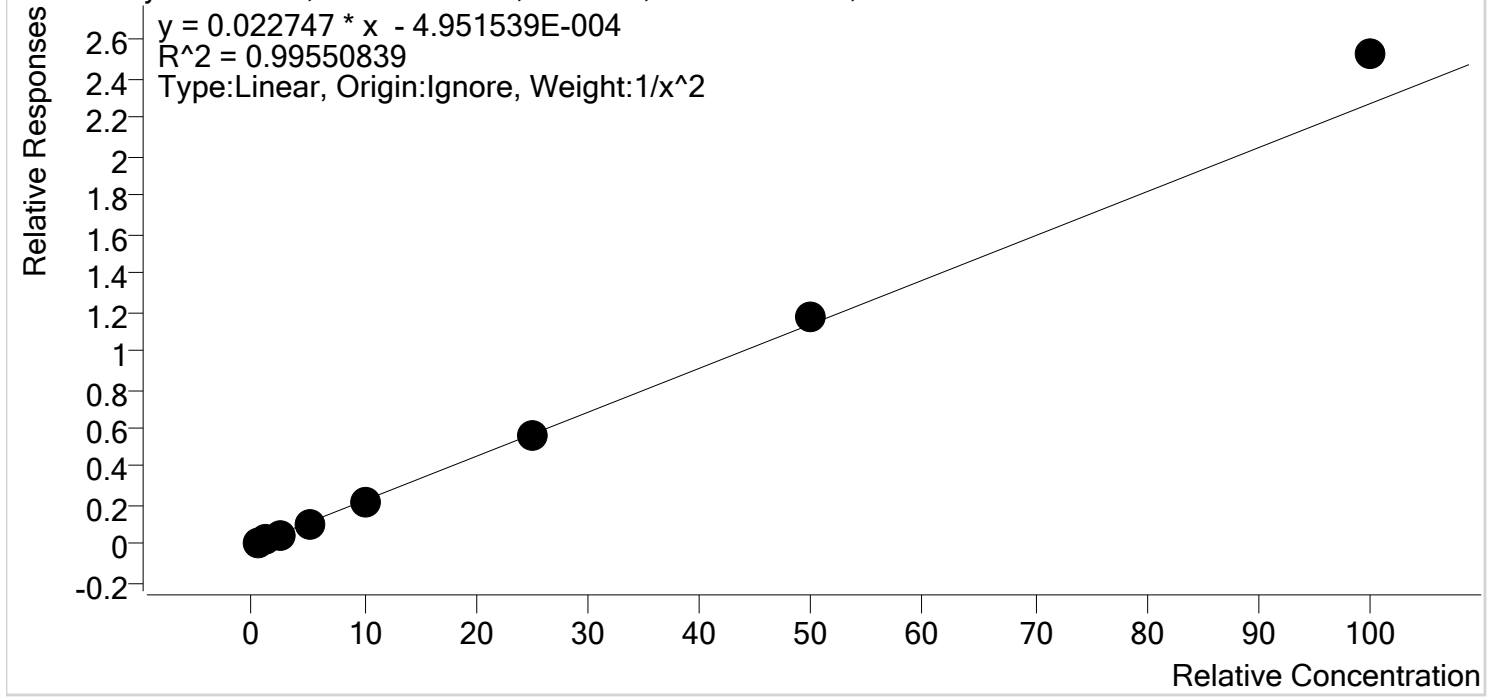
**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

Norfentanyl - 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	102.7
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.7
p1 Cal 3 -25ng	3	✓	2.5	2.3	92.1
p1 Cal 4-50ng	4	✓	5.0	4.9	97.3
p1 Cal 5-100ng	5	✓	10.0	9.5	95.1
p1 Cal 6-250ng	6	✓	25.0	25.0	99.8
p1 Cal 7-500ng	7	✓	50.0	51.6	103.1
p1 Cal 8-1000ng	8	✓	100.0	111.2	111.2





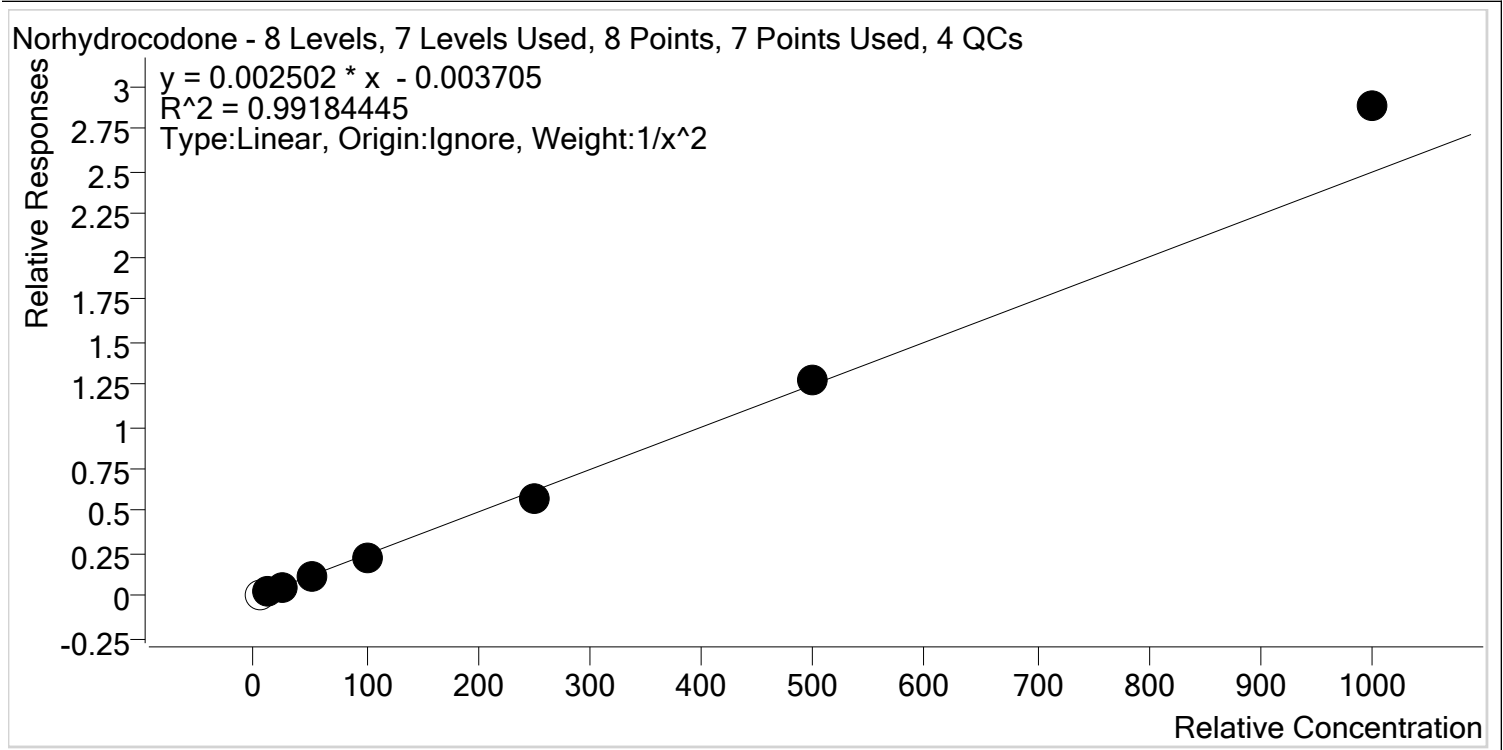
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	6.4	128.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.3
p1 Cal 4-50ng	4	✓	50.0	48.5	96.9
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	231.9	92.8
p1 Cal 7-500ng	7	✓	500.0	508.1	101.6
p1 Cal 8-1000ng	8	✓	1000.0	1154.8	115.5



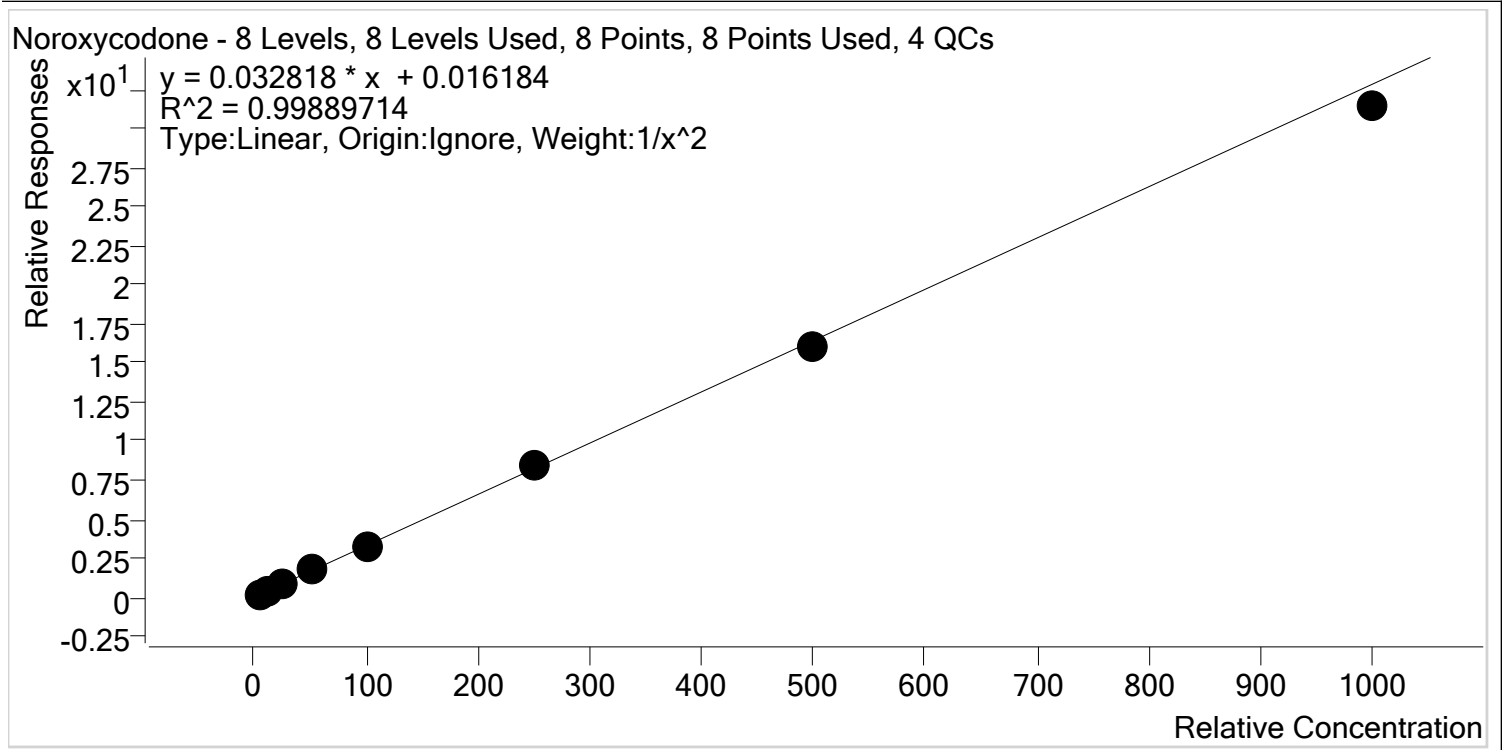
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



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	9.7	97.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	489.0	97.8
p1 Cal 8-1000ng	8	✓	1000.0	957.1	95.7

cg



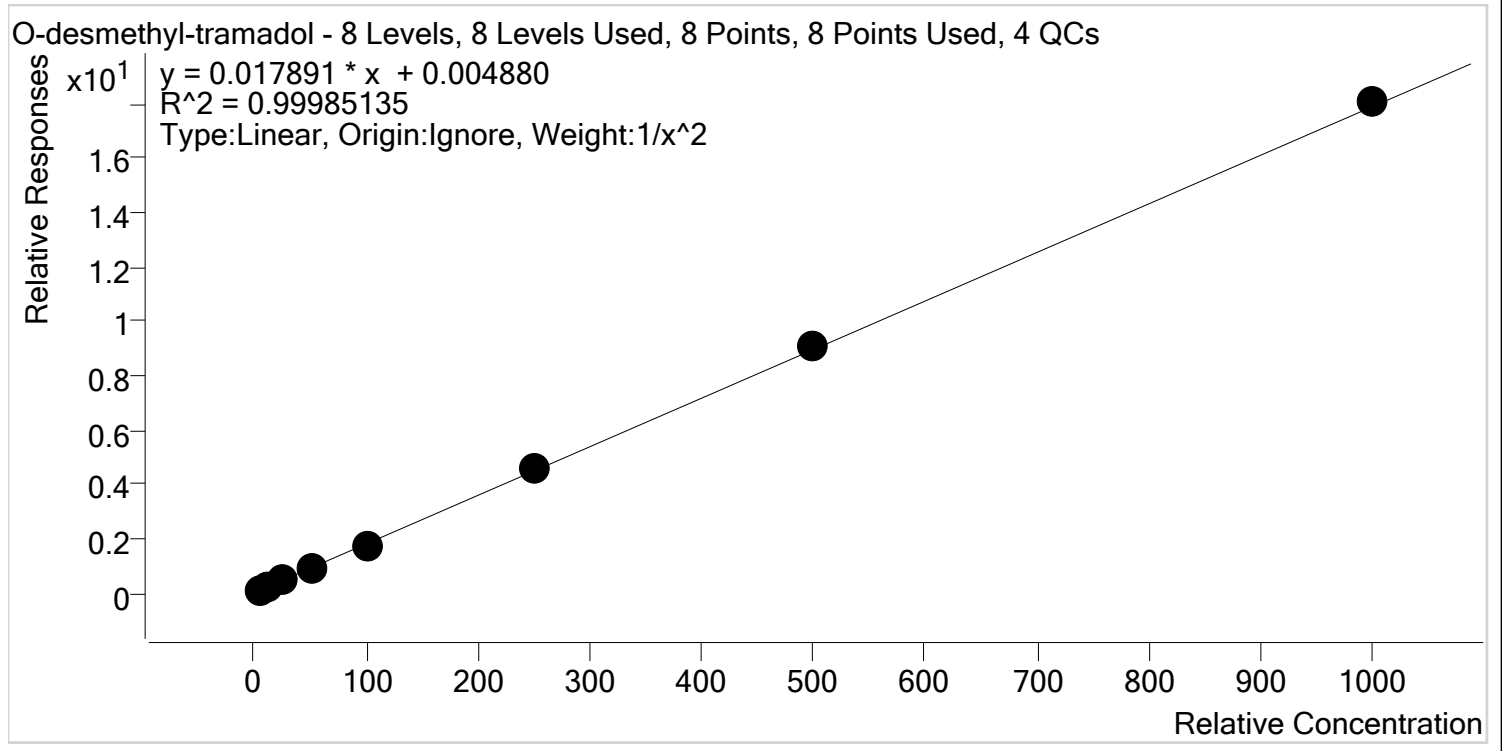
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



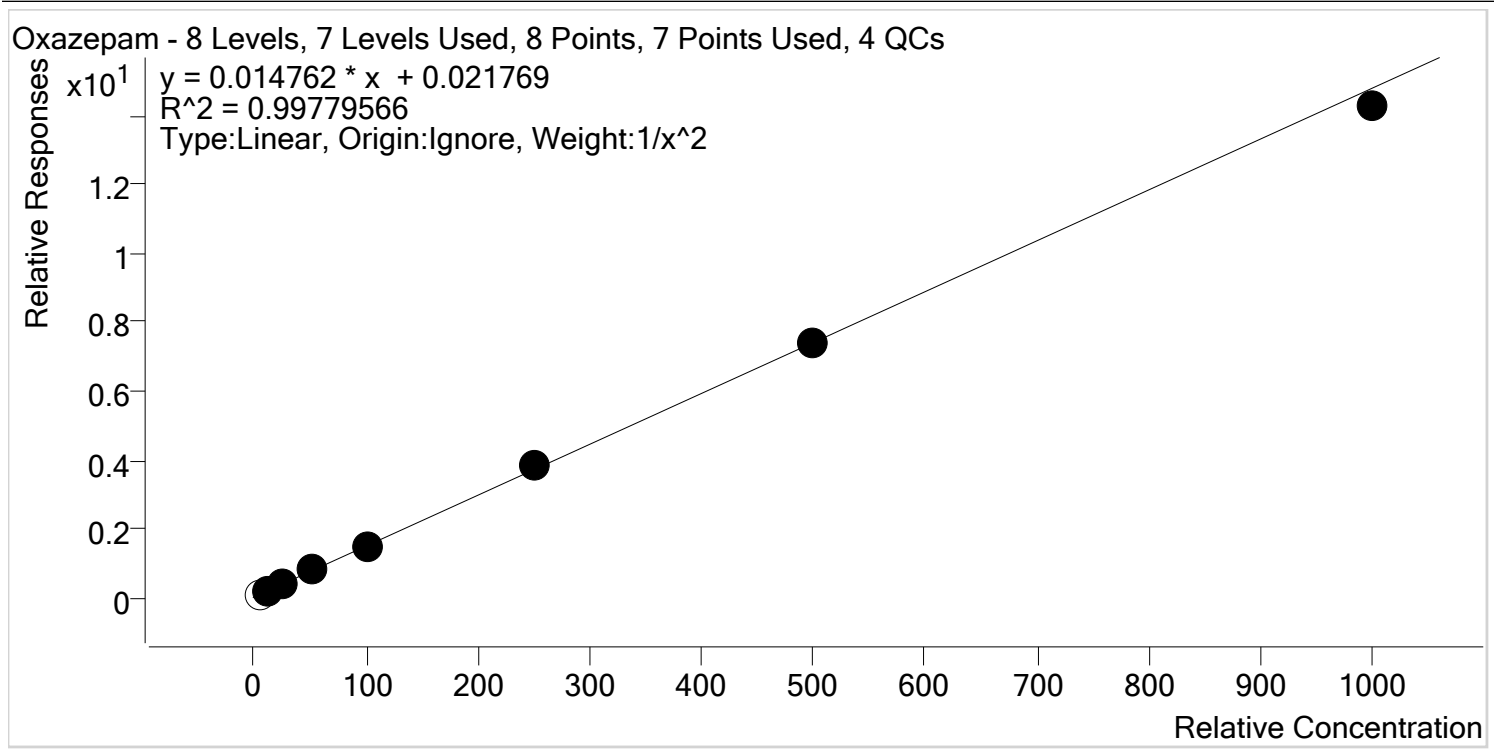
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	504.0	100.8
p1 Cal 8-1000ng	8	✓	1000.0	1010.0	101.0

cg



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	51.2	102.5
p1 Cal 5-100ng	5	✓	100.0	95.2	95.2
p1 Cal 6-250ng	6	✓	250.0	257.2	102.9
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	964.5	96.5

cg



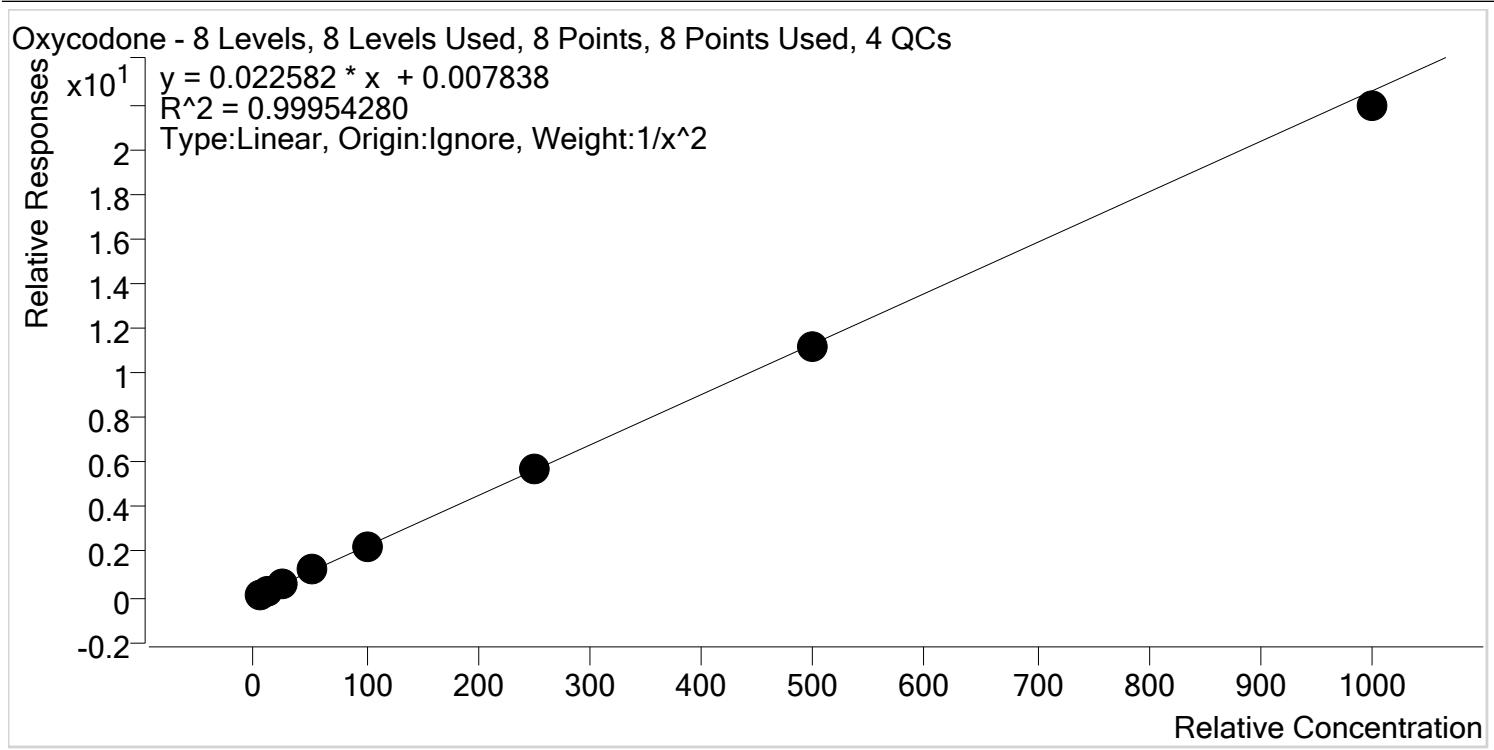
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	491.8	98.4
p1 Cal 8-1000ng	8	✓	1000.0	969.6	97.0

cg



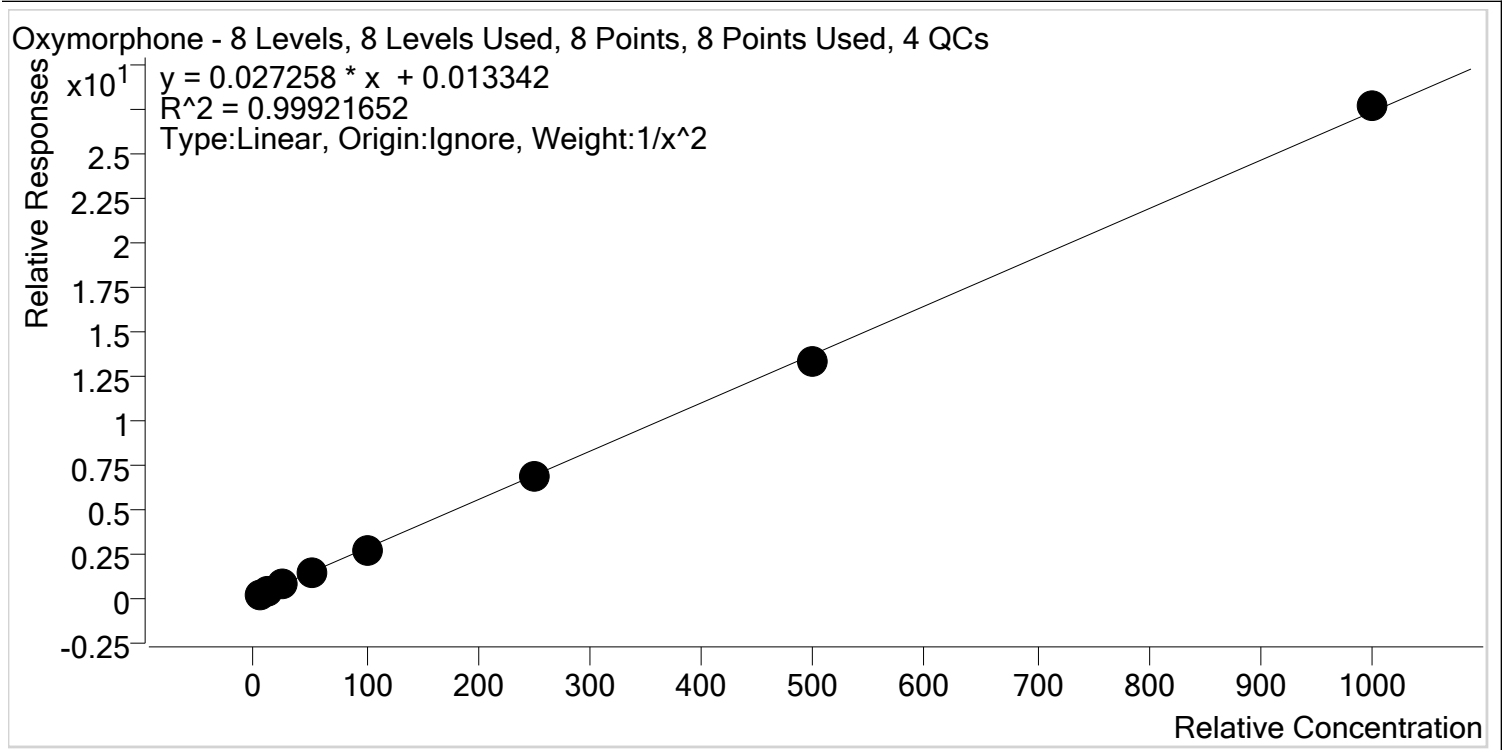
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.7	103.0
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	485.8	97.2
p1 Cal 8-1000ng	8	✓	1000.0	1011.6	101.2



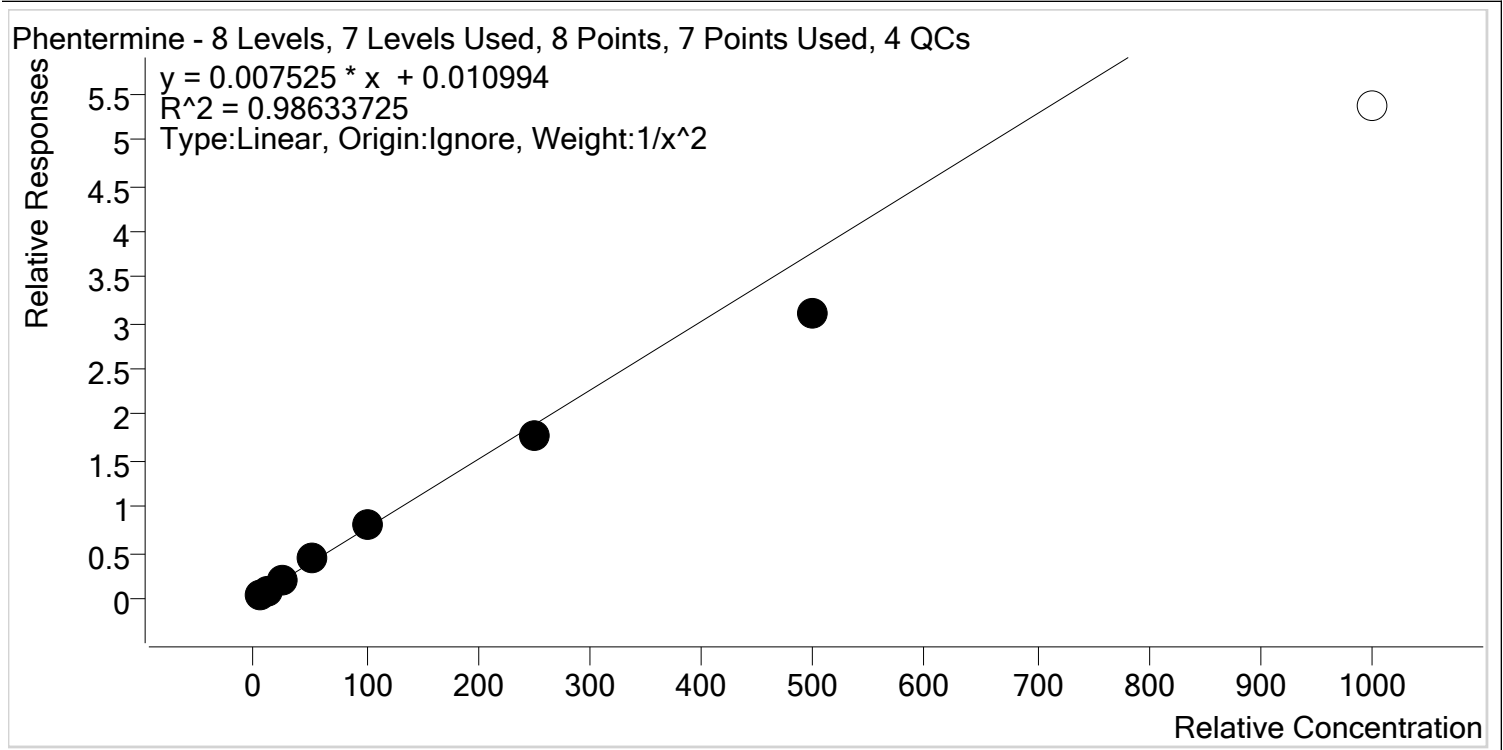
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Phentermine **Internal Standard** Phentermine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.3
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng	4	✓	50.0	55.0	110.0
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	235.6	94.2
p1 Cal 7-500ng	7	✓	500.0	413.5	82.7
p1 Cal 8-1000ng	8	x	1000.0	711.2	71.1

cg



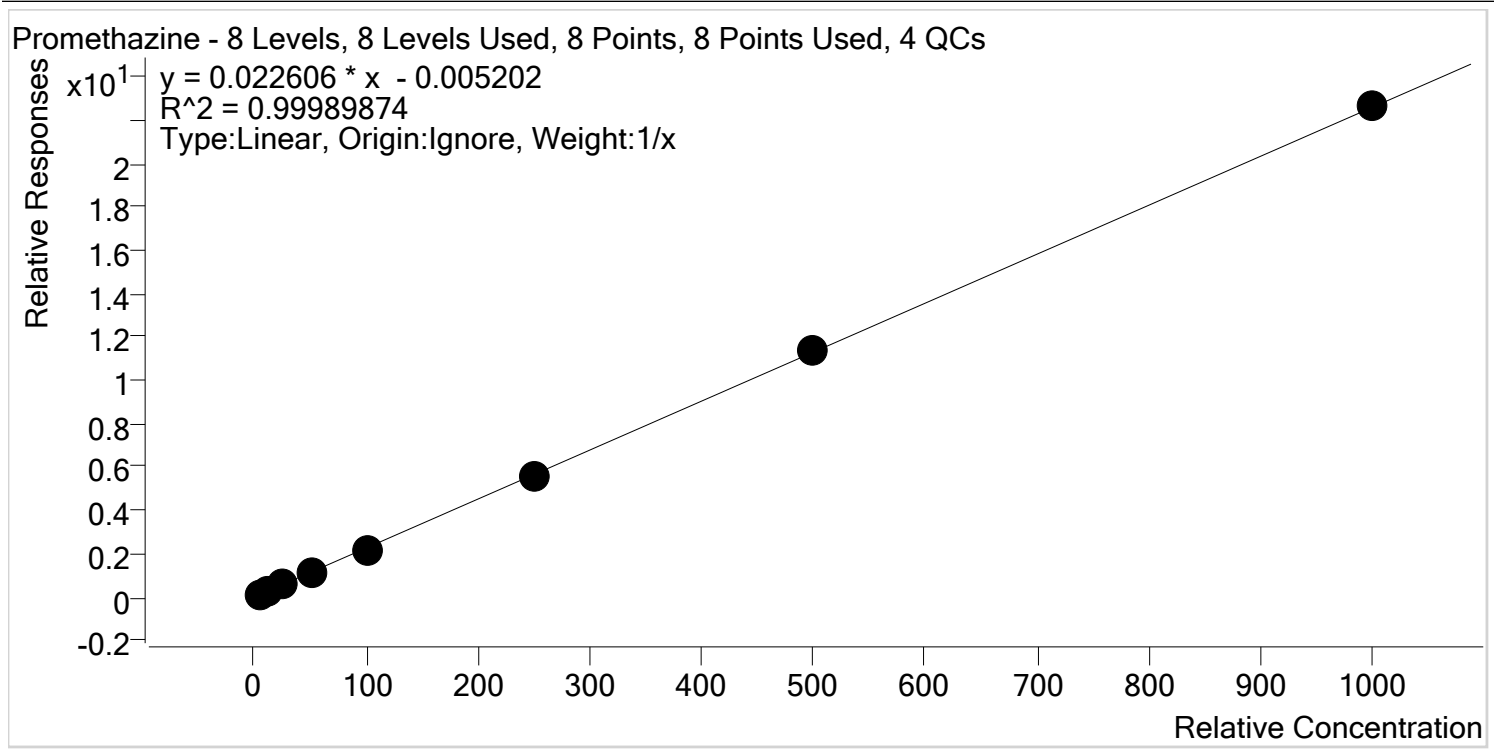
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.3	105.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	504.3	100.9
p1 Cal 8-1000ng	8	✓	1000.0	1002.3	100.2



CS



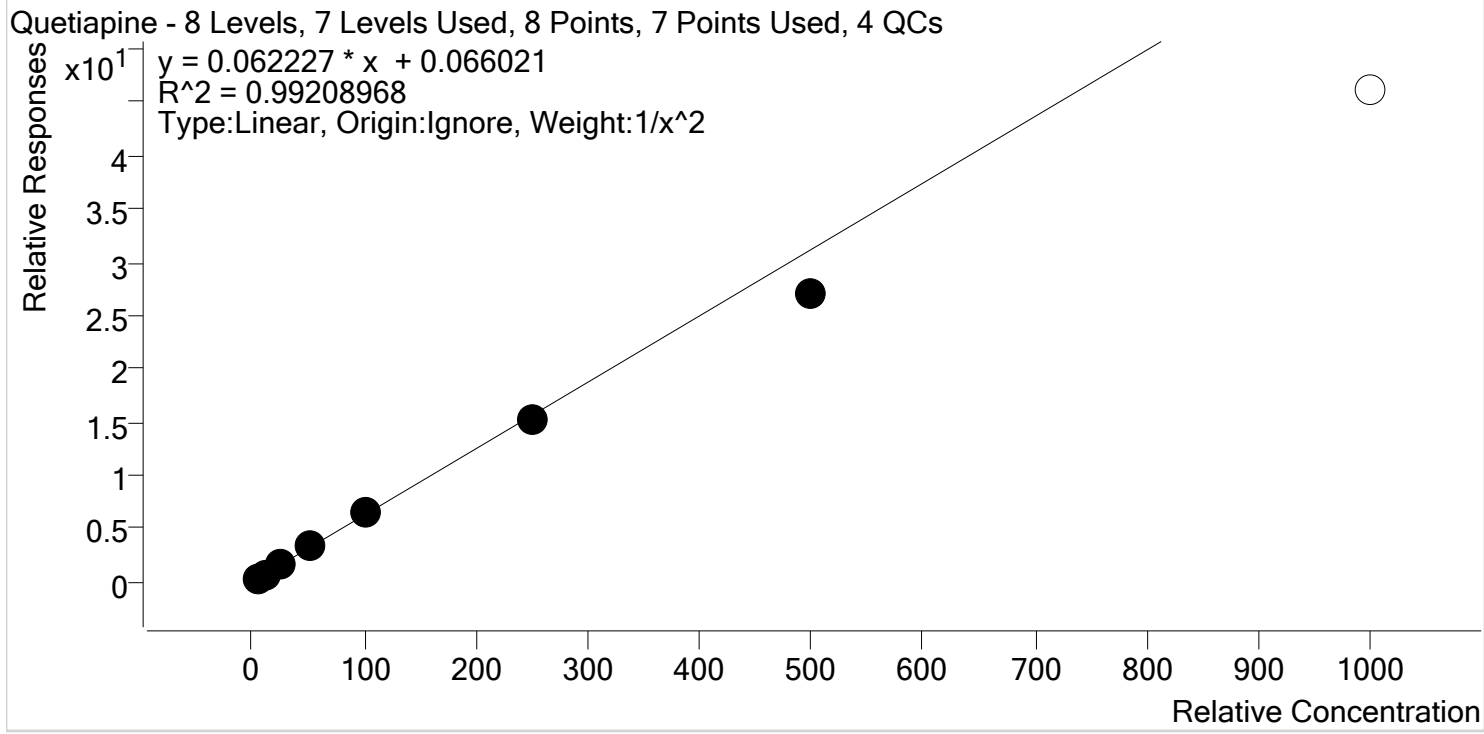
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Quetiapine **Internal Standard** Quetiapine-D8



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	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	55.0	110.0
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	241.5	96.6
p1 Cal 7-500ng	7	✓	500.0	432.9	86.6
p1 Cal 8-1000ng	8	x	1000.0	739.6	74.0



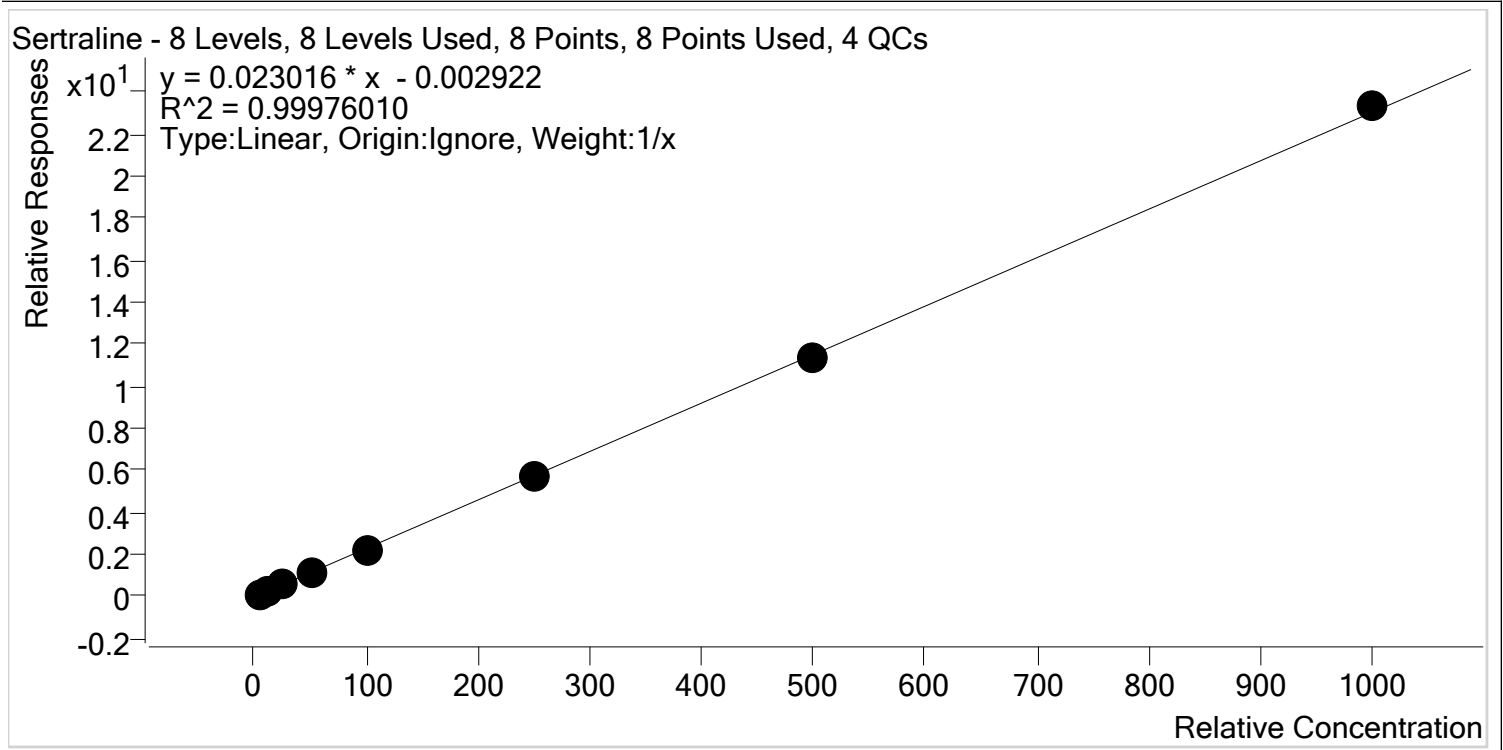
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**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	5.2	104.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.8
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	245.6	98.2
p1 Cal 7-500ng	7	✓	500.0	495.0	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1012.6	101.3

g



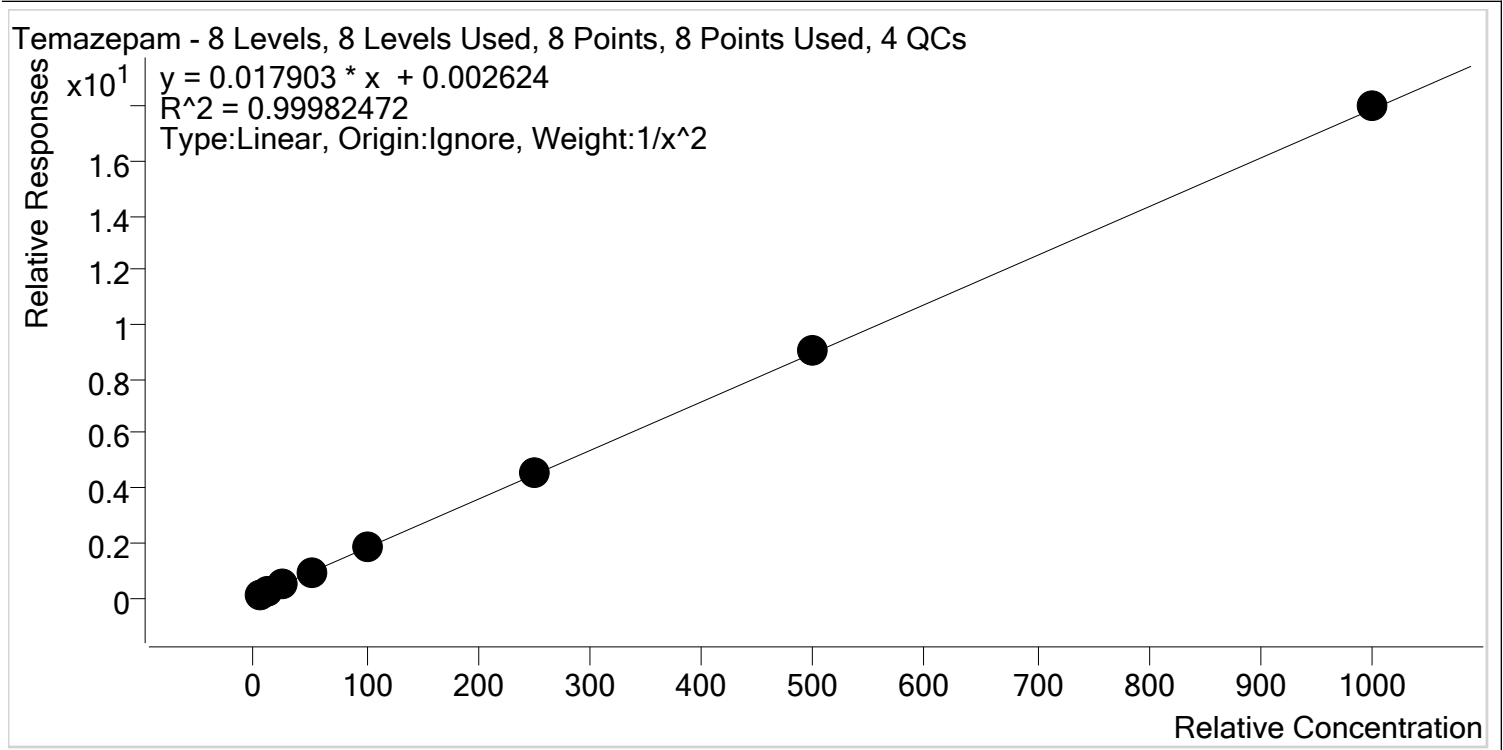
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 AM

**Analyst Name** ISP\datastor

**Analyte** Temazepam **Internal Standard** Temazepam-D5

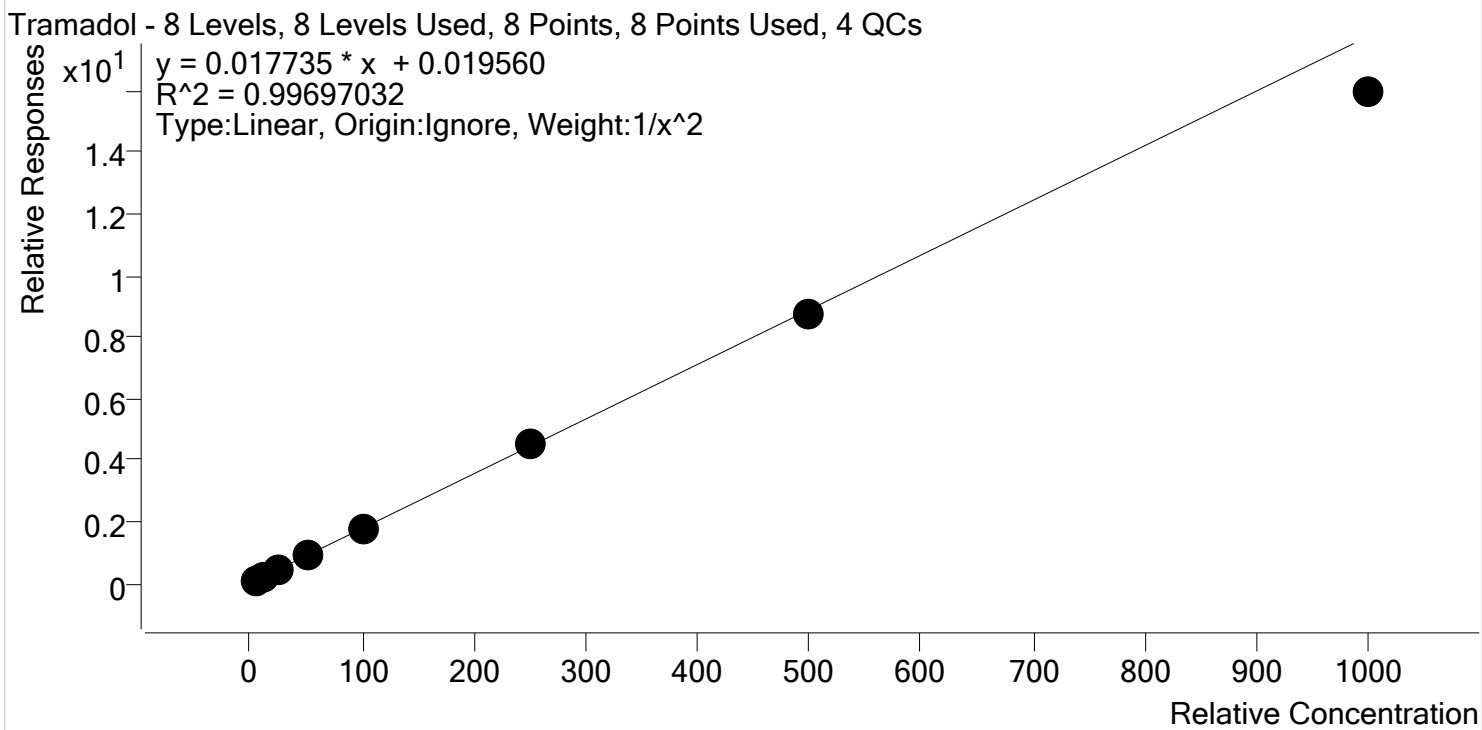


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.4	100.9
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1006.4	100.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin  
**Last Cal. Update** 10/31/2019 9:36 AM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng	4	✓	50.0	52.3	104.7
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	492.8	98.6
p1 Cal 8-1000ng	8	✓	1000.0	897.8	89.8



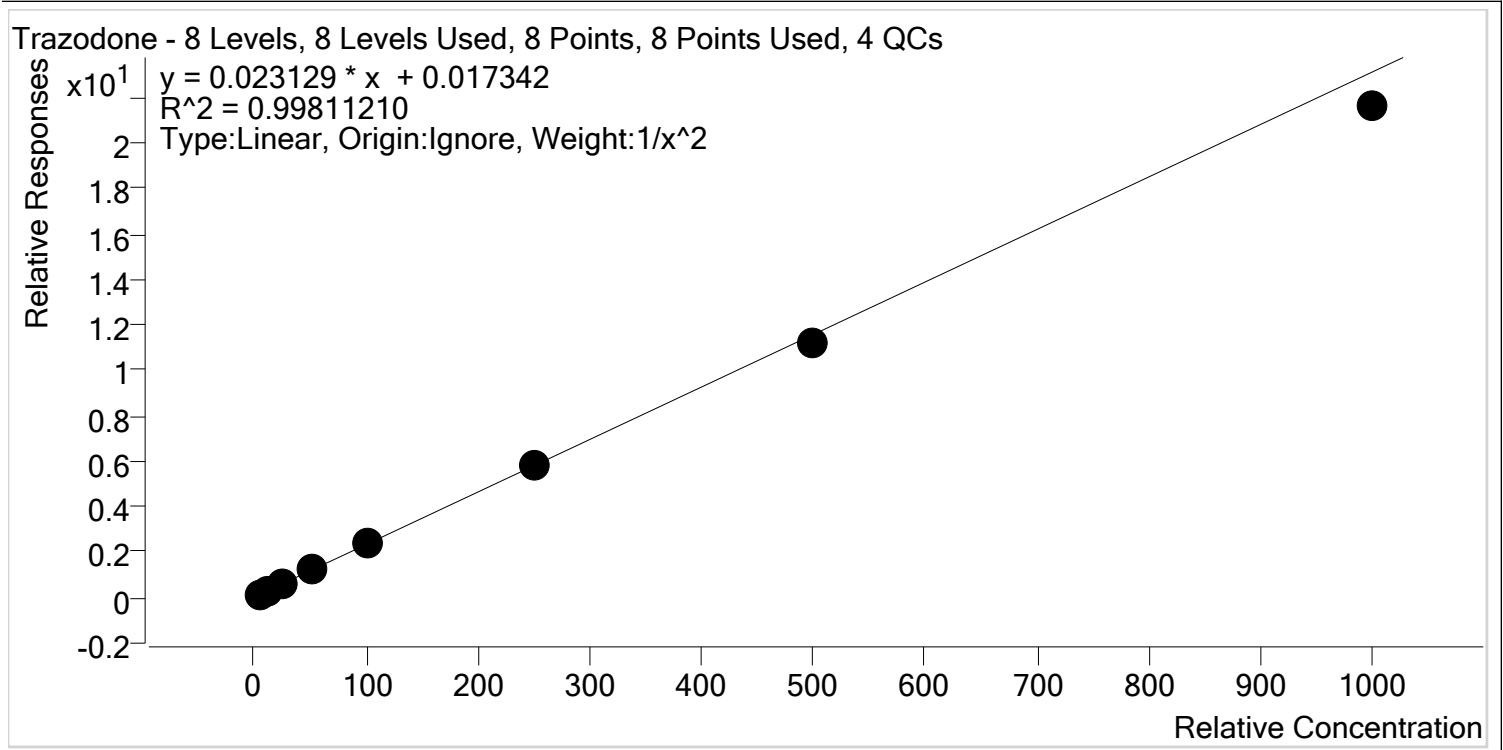
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.8
p1 Cal 4-50ng	4	✓	50.0	53.0	106.1
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	483.4	96.7
p1 Cal 8-1000ng	8	✓	1000.0	934.8	93.5



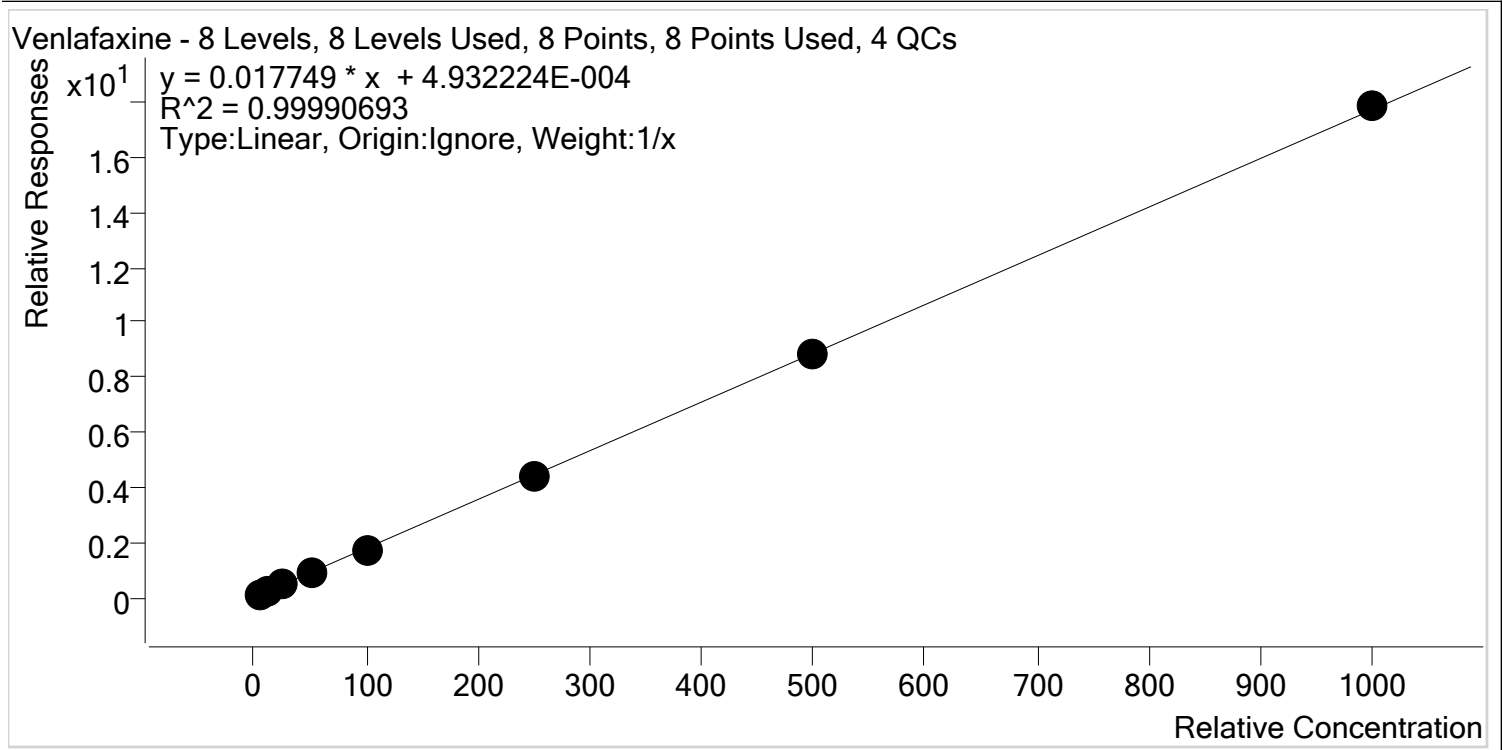
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	496.0	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1007.3	100.7

CG



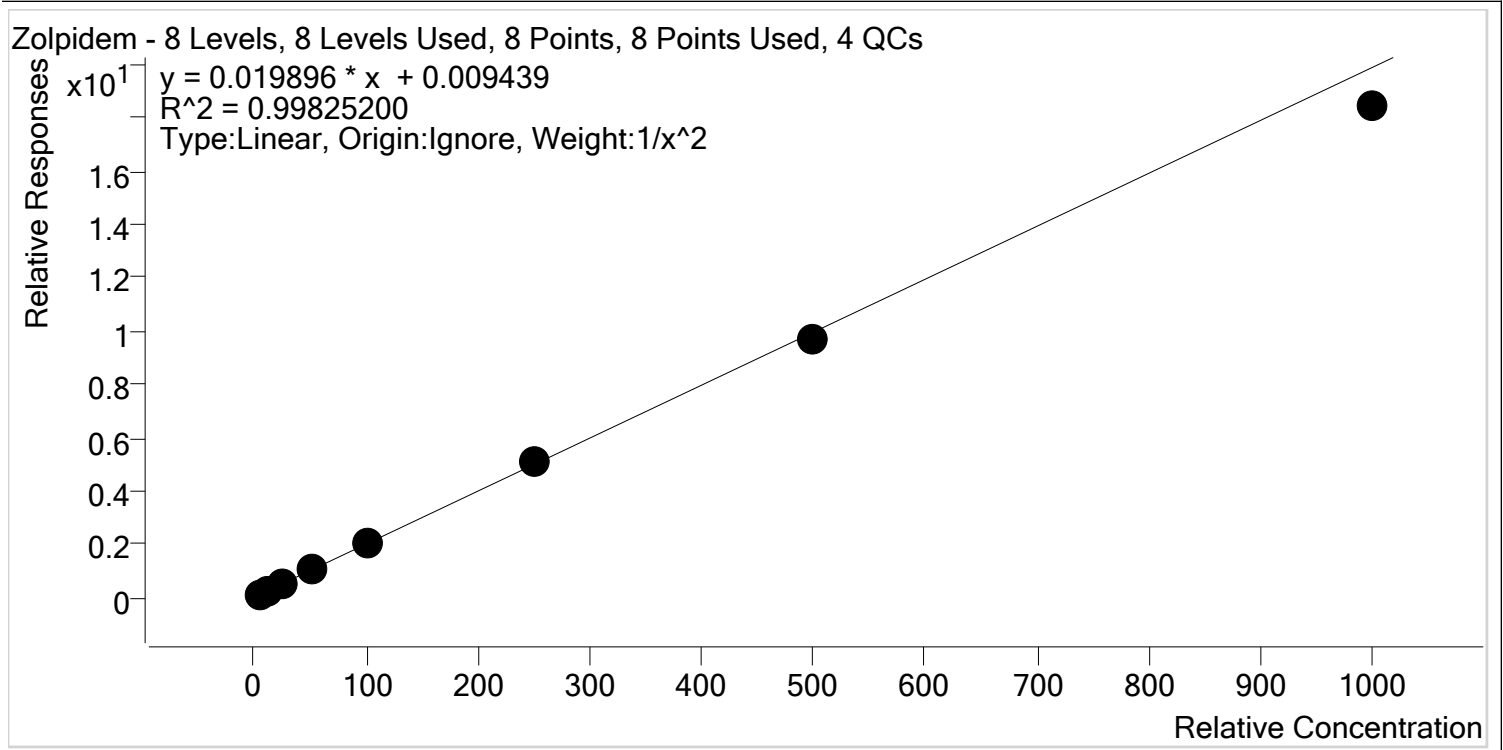
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines  
 CS.batch-meth removed.bin.batch.bin

**Last Cal. Update** 10/31/2019 9:36 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	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng	4	✓	50.0	51.9	103.9
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	488.1	97.6
p1 Cal 8-1000ng	8	✓	1000.0	926.8	92.7

# AM #28 Multi-Drug Quant. Results



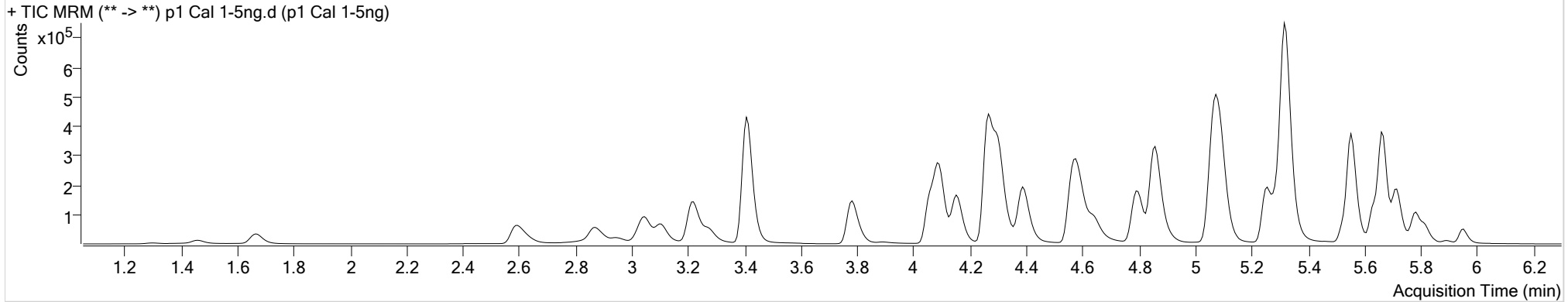
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS-meth removed.batch.bin  
10/31/2019 1:34:28 PM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-A1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 3:20:34 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	103	235.96	85.6	502.68	3924	0.4573 ng/ml
7-aminoclonazepam	4.291	6743	320.16	86.9	2022.97	52193	4.7507 ng/ml
a-hydroxyalprazolam	5.707	340	25.08	86.0	∞	4671	4.8810 ng/ml
alpha-PVP	4.398	53767	∞	49.6	249.12	449799	5.2019 ng/ml
Alprazolam	5.784	14201	272.66	100.0	548.84	65958	5.1668 ng/ml
Amphetamine	3.108	85725	∞	52.5	1701.28	142608	4.8045 ng/ml
Benzoylcegonine	3.921	1494	11.76	8.6	60.58	9751	4.8272 ng/ml
Buprenorphine	5.706	1482	∞	18.7	16.27	117267	0.5046 ng/ml
Bupropion	4.813	69417	4252.04	58.9	256.49	437689	4.4250 ng/ml
Carisoprodol	5.726	7171	741.57	63.2	70.29	71700	5.1149 ng/ml
Citalopram	5.256	48959	367.81	41.3	∞	429123	5.1505 ng/ml
Clonazepam	5.620	1696	36.70	32.1	59.67	5711	4.8051 ng/ml
Cocaine	4.304	44656	481.03	45.7	687.30	651846	5.0873 ng/ml
Codeine	2.643	5909	371.78	102.4	4409.69	46992	4.8922 ng/ml
Cyclobenzaprine	5.637	35139	4229.42	10.5	∞	245487	5.0446 ng/ml
Dextromethorphan	5.299	30811	465.26	79.9	302.29	276860	4.9978 ng/ml
Dextrorphan	4.160	13778	56784.73	211.4	2200.87	367131	4.9504 ng/ml
Diazepam	5.955	9173	332.30	87.1	172.00	87815	4.9850 ng/ml



# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	15766	4781.27	68.0	30433.69	164356	4.7717 ng/ml
Diphenhydramine	5.327	107850	440.73	33.1	10278.81	1665068	5.3296 ng/ml
Doxylamine	4.588	122895	1520.97	97.5	2324.05	963199	4.7968 ng/ml
EDDP	5.291	8836	429.40	42.2	1743.87	101076	5.0805 ng/ml
Fentanyl	5.106	3396	187.28	73.5	∞	362708	0.5085 ng/ml
Fluoxetine	5.716	31809	388.86	8.8	∞	259836	5.1632 ng/ml
Hydrocodone	3.079	13666	127.99	40.5	70.35	169406	4.9470 ng/ml
Hydromorphone	1.672	11602	539.66	77.3	198.89	87704	4.9875 ng/ml
Ketamine	4.074	47245	3073.26	36.7	309.36	406413	4.9129 ng/ml
Lamotrigine	4.315	4235	305.94	80.7	1076.87	406413	4.8771 ng/ml
Lorazepam	5.755	649	8.78 <b>Low</b>	37.7 <b>Low</b>	2.56 <b>Low</b>	5711	8.3692 ng/ml
Meprobamate	4.935	1912	∞	28.8	52.72	19664	4.9207 ng/ml
Methadone	5.668	65244	2996.33	53.8	2977.44	583072	5.3087 ng/ml
Metoprolol	4.354	11058	∞	98.9	1224.09	1043925	4.7838 ng/ml
Mirtazapine	4.643	94768	1885.58	49.1	962.72	449799	4.9371 ng/ml
Mitragynine	5.234	8336	740.42	37.4	227.87	583072	5.2605 ng/ml
Morphine	1.307	3095	2128.12	21.4	2697.73	5577	4.9254 ng/ml
Nordiazepam	5.901	2037	81.12	54.6	208.16	11950	5.0435 ng/ml
Norfentanyl	4.115	6557	650.13	38.9	168.39	586455	0.5133 ng/ml
Norhydrocodone	3.120	470	46.92	25.1 <b>Low</b>	18.52	38000	6.4258 ng/ml
Noroxycodone	2.971	8588	423.82	49.9	632.73	47444	5.0226 ng/ml
O-desmethyl-tramadol	3.414	98869	21686.97	6.3	99.85	1041875	5.0314 ng/ml
Oxazepam	5.765	784	4.38 <b>Low</b>	68.0	5.12 <b>Low</b>	8237	4.9760 ng/ml
Oxycodone	2.895	23778	803.89	31.8	1278.05	198310	4.9626 ng/ml
Oxymorphone	1.463	5292	60.22	48.7	84.02	36002	4.9036 ng/ml
Phentermine	3.818	19394	921.36	2.2	42.59	417223	4.7164 ng/ml
Promethazine	5.556	78978	∞	30.9	586.32	690833	5.2874 ng/ml
Quetiapine	5.544	56660	14282.65	58.5	82742.96	154597	4.8288 ng/ml
Sertraline	5.784	14016	132.49	91.1	479.91	119847	5.2080 ng/ml
Temazepam	5.825	7725	79.41	32.4	22.06	82899	5.0585 ng/ml
Tramadol	4.280	111083	2036.22	3.2	48.35	1043925	4.8970 ng/ml
Trazodone	5.099	57365	10014.95	75.8	12378.46	434081	4.9640 ng/ml
Venlafaxine	5.074	79453	7367.88	36.4	182.02	860244	5.1760 ng/ml
Zolpidem	4.878	89438	40894.08	31.8	∞	833042	4.9219 ng/ml

# AM #28 Multi-Drug Quant. Results



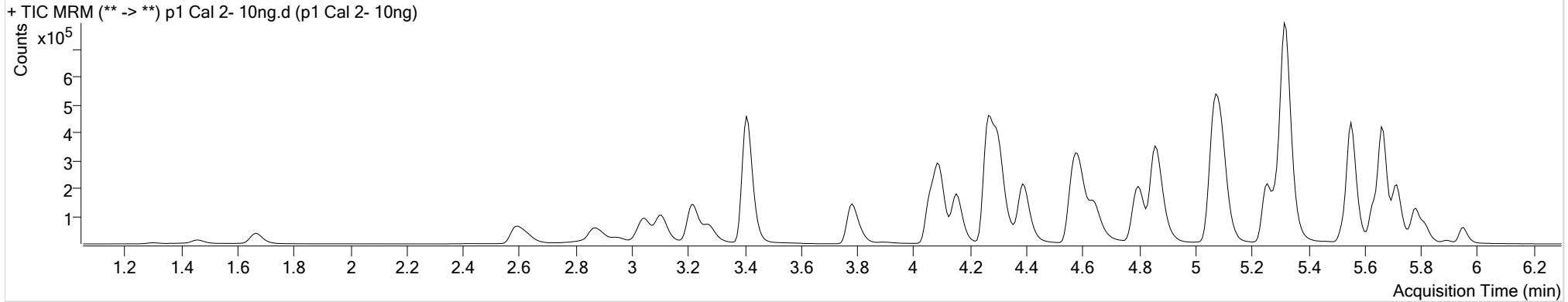
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\102819 MDQ P1 CS\QuantResults\AM 28 MDQ P1 102819 Urines CS-meth removed.batch.bin  
10/31/2019 1:34:28 PM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-B1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 3:31:14 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	260	∞	58.1	1155.26	3744	1.1919 ng/ml
7-aminoclonazepam	4.291	13458	1239.41	82.8	72.74	51477	10.4845 ng/ml
a-hydroxyalprazolam	5.700	891	55.34	63.4	∞	4615	11.1528 ng/ml
alpha-PVP	4.398	103761	348.84	50.1	2185.07	442153	10.1032 ng/ml
Alprazolam	5.777	26593	507.21	106.0	247.85	64937	9.8341 ng/ml
Amphetamine	3.108	158173	1609.62	52.0	2928.97	138865	10.4345 ng/ml
Benzoyllecgonine	3.921	2542	58.07	8.2	27.35	9048	10.5616 ng/ml
Buprenorphine	5.706	2866	119.01	16.1	∞	117029	0.9630 ng/ml
Bupropion	4.813	134781	1664.07	58.8	2446.18	433443	9.7310 ng/ml
Carisoprodol	5.733	14633	∞	57.9	84.00	74728	9.7060 ng/ml
Citalopram	5.256	94293	1112.85	40.7	672.34	419992	10.1848 ng/ml
Clonazepam	5.620	3343	162.19	28.6	∞	5935	10.3135 ng/ml
Cocaine	4.304	84571	11227.37	46.3	674.60	631884	10.0478 ng/ml
Codeine	2.643	11070	262.51	103.1	3639.71	46138	10.1307 ng/ml
Cyclobenzaprine	5.637	66659	354.07	10.3	171.03	240989	9.8330 ng/ml
Dextromethorphan	5.299	59704	∞	79.7	5568.28	272378	10.0110 ng/ml
Dextrorphan	4.160	26510	193216.10	211.8	4988.56	362099	9.9386 ng/ml
Diazepam	5.955	18260	461.37	88.3	375.42	90098	9.9078 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	30998	2523.55	65.4	3269.00	162103	10.5163 ng/ml
Diphenhydramine	5.327	202647	15839.09	33.0	∞	1629326	10.0317 ng/ml
Doxylamine	4.588	237441	1166.69	95.8	14467.15	953763	9.8794 ng/ml
EDDP	5.291	16778	290.09	44.1	6077.31	102330	9.7077 ng/ml
Fentanyl	5.106	6800	601.18	66.6	15359.26	358858	0.9953 ng/ml
Fluoxetine	5.716	61266	∞	9.1	13682.87	264792	9.9120 ng/ml
Hydrocodone	3.079	25428	64.67	39.6	60.19	167887	10.0392 ng/ml
Hydromorphone	1.672	21794	372.59	76.4	499.82	83676	10.0058 ng/ml
Ketamine	4.074	90221	21055.22	36.5	393.91	401214	10.1741 ng/ml
Lamotrigine	4.315	7711	1419.94	86.1	1959.61	401214	10.1464 ng/ml
Lorazepam	5.755	1063	42.96	50.9	4.34 <b>Low</b>	5935	11.4166 ng/ml
Meprobamate	4.935	3923	348.01	26.6	63.74	19137	10.3465 ng/ml
Methadone	5.668	125308	∞	54.3	1217.86	579757	9.9934 ng/ml
Metoprolol	4.354	20979	14083.41	98.8	6977.14	1021574	10.4037 ng/ml
Mirtazapine	4.643	183976	∞	48.9	2377.13	442153	10.1484 ng/ml
Mitragynine	5.241	15234	2127.41	40.0	81.27	579757	9.3830 ng/ml
Morphine	1.307	5621	∞	21.3	760.95	5261	10.0723 ng/ml
Nordiazepam	5.901	3760	246.62	58.1	191.45	12006	9.7472 ng/ml
Norfentanyl	4.115	12672	1453.67	36.7	188.18	577083	0.9871 ng/ml
Norhydrocodone	3.113	848	∞	36.2	27.85	38381	10.3126 ng/ml
Noroxycodone	2.964	15541	467.52	51.8	331.72	46243	9.7473 ng/ml
O-desmethyl-tramadol	3.414	187900	3181.43	6.2	319.25	1028520	9.9387 ng/ml
Oxazepam	5.758	1431	18.68	67.7	5.47 <b>Low</b>	8642	9.7397 ng/ml
Oxycodone	2.895	44992	510.90	31.7	781.44	191987	10.0307 ng/ml
Oxymorphone	1.463	9972	169.56	50.9	138.39	33918	10.2965 ng/ml
Phentermine	3.818	37084	1344.18	2.3	360.00	408607	10.6005 ng/ml
Promethazine	5.556	149262	9783.41	30.8	2018.56	679516	9.9472 ng/ml
Quetiapine	5.544	107706	2275.36	60.3	∞	152215	10.3101 ng/ml
Sertraline	5.784	26521	350.44	90.8	465.53	117176	9.9605 ng/ml
Temazepam	5.825	14711	338.88	31.3	19.16	82526	9.8103 ng/ml
Tramadol	4.280	203701	584.89	3.5	61.53	1021574	10.1403 ng/ml
Trazodone	5.099	107704	∞	78.7	2282.60	435623	9.9401 ng/ml
Venlafaxine	5.074	150316	925.84	36.6	327.24	846150	9.9813 ng/ml
Zolpidem	4.878	172586	∞	30.7	5299.05	819093	10.1160 ng/ml

# AM #28 Multi-Drug Quant. Results



**Batch results**  
**Calibration Last Update**

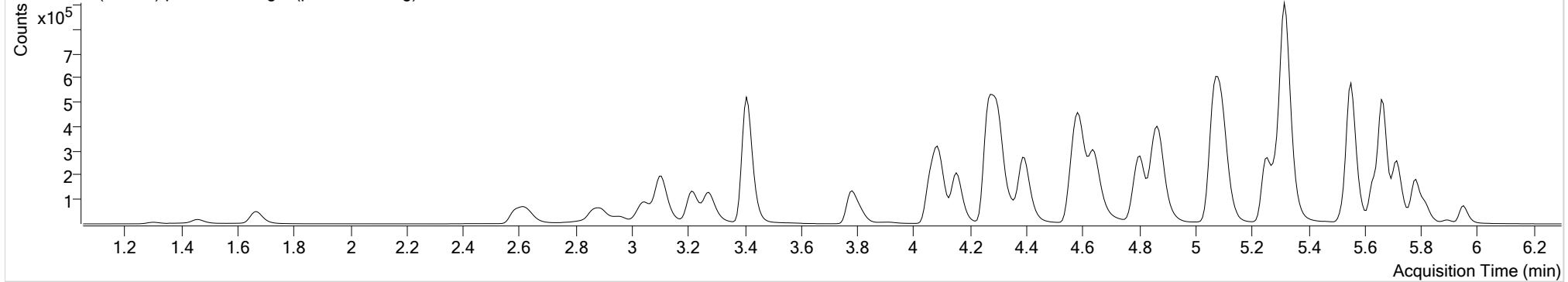
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10/31/2019 9:36:14 AM

**Instrument Type** Falco  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-C1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 3:41:44 PM  
**Sample Info.**

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

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p1 Cal 3 -25ng.d (p1 Cal 3 -25ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	472	101.51	68.6	871.25	3330	2.4240 ng/ml
7-aminoclonazepam	4.291	30239	489.30	81.4	6458.17	46561	27.3071 ng/ml
a-hydroxyalprazolam	5.700	1934	58.42	62.2	50.21	4167	25.2974 ng/ml
alpha-PVP	4.398	236855	7998.80	50.2	17970.72	408618	24.7886 ng/ml
Alprazolam	5.777	60156	635.97	105.5	573.54	58926	24.5247 ng/ml
Amphetamine	3.108	345690	4082.67	52.1	5656.38	128022	26.7746 ng/ml
Benzoylcegonine	3.921	5066	1008.28	7.7	∞	8195	25.7037 ng/ml
Buprenorphine	5.706	7097	1117.31	16.1	77.39	106626	2.5888 ng/ml
Bupropion	4.813	302427	19140.52	58.7	11994.29	395879	25.5070 ng/ml
Carisoprodol	5.733	34939	6283.35	53.3	127.85	69012	24.5829 ng/ml
Citalopram	5.256	210108	12720.50	42.0	8146.28	387115	24.6939 ng/ml
Clonazepam	5.620	7138	366.86	32.3	146.03	5119	27.5184 ng/ml
Cocaine	4.298	189407	12935.61	45.3	7267.20	577823	24.7737 ng/ml
Codeine	2.643	25019	178.20	99.3	900.62	42454	26.1580 ng/ml
Cyclobenzaprine	5.637	153701	294.12	9.5	1278.72	219585	25.0220 ng/ml
Dextromethorphan	5.299	134134	18952.30	80.1	11086.54	246744	25.0827 ng/ml
Dextrorphan	4.154	60969	6727.81	209.5	8616.71	336516	25.0313 ng/ml
Diazepam	5.955	42113	602.48	86.0	∞	80905	25.8405 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	68711	15890.72	67.0	211.19	149513	26.6909 ng/ml
Diphenhydramine	5.327	461645	∞	33.2	13261.97	1507427	24.3799 ng/ml
Doxylamine	4.588	536551	4507.85	96.6	21599.77	880440	24.9754 ng/ml
EDDP	5.291	44680	661.62	42.3	∞	107337	24.9612 ng/ml
Fentanyl	5.106	15132	3240.63	69.8	40196.36	326249	2.3887 ng/ml
Fluoxetine	5.716	141203	7373.86	8.9	13078.56	247783	24.6650 ng/ml
Hydrocodone	3.072	56741	908.98	41.4	125.36	154381	25.5838 ng/ml
Hydromorphone	1.672	49610	∞	75.5	926.76	76871	25.0763 ng/ml
Ketamine	4.074	200531	11990.99	38.0	323.09	371078	25.4572 ng/ml
Lamotrigine	4.315	17182	845.26	83.2	2596.91	371078	26.3695 ng/ml
Lorazepam	5.748	2546	48.54	49.7	12.67	5119	26.2284 ng/ml
Meprobamate	4.935	9003	1038.18	24.5	870.61	17961	25.2684 ng/ml
Methadone	5.668	287681	9223.49	52.3	19188.67	533377	24.5191 ng/ml
Metoprolol	4.354	47299	8940.61	98.7	∞	950078	26.9355 ng/ml
Mirtazapine	4.643	413776	7633.25	49.2	11365.91	408618	25.2833 ng/ml
Mitragynine	5.234	35156	5923.98	38.3	6676.22	533377	23.0216 ng/ml
Morphine	1.307	12702	43.14	22.1	7051.45	4850	25.6185 ng/ml
Norbuprenorphine	5.024	285	52.31	65.1	66.56	4017	2.6561 ng/ml
Nordiazepam	5.901	8457	536.42	56.8	450.73	10826	25.1702 ng/ml
Norfentanyl	4.115	27967	1795.49	39.0	161.63	539289	2.3016 ng/ml
Norhydrocodone	3.113	2034	134.34	31.9	43.11	36388	23.8218 ng/ml
Noroxycodone	2.964	36694	∞	48.7	1253.93	43197	25.3906 ng/ml
O-desmethyl-tramadol	3.414	420507	9663.63	6.3	276.25	945226	24.5935 ng/ml
Oxazepam	5.758	3071	16.36	72.3	19.09	7414	26.5811 ng/ml
Oxycodone	2.895	103994	2483.99	30.9	1894.86	178779	25.4124 ng/ml
Oxymorphone	1.457	21997	938.19	48.9	3800.45	30762	25.7439 ng/ml
Phentermine	3.818	81400	∞	2.1	92.12	377429	27.2011 ng/ml
Promethazine	5.556	334854	16328.68	30.5	∞	607590	24.6100 ng/ml
Quetiapine	5.544	244928	54156.64	60.1	16030.64	144401	26.1965 ng/ml
Sertraline	5.784	63177	327.84	89.9	565.55	108415	25.4453 ng/ml
Temazepam	5.825	33410	856.30	30.1	63.84	75402	24.6037 ng/ml
Tramadol	4.280	458080	24168.98	3.3	108.38	950078	26.0833 ng/ml
Trazodone	5.099	241377	1520.62	78.1	1109.64	398344	25.4495 ng/ml
Venlafaxine	5.074	341427	1039.91	36.5	1035.25	774465	24.8109 ng/ml
Zolpidem	4.878	392894	3611.38	31.0	15753.07	756485	25.6302 ng/ml

# AM #28 Multi-Drug Quant. Results



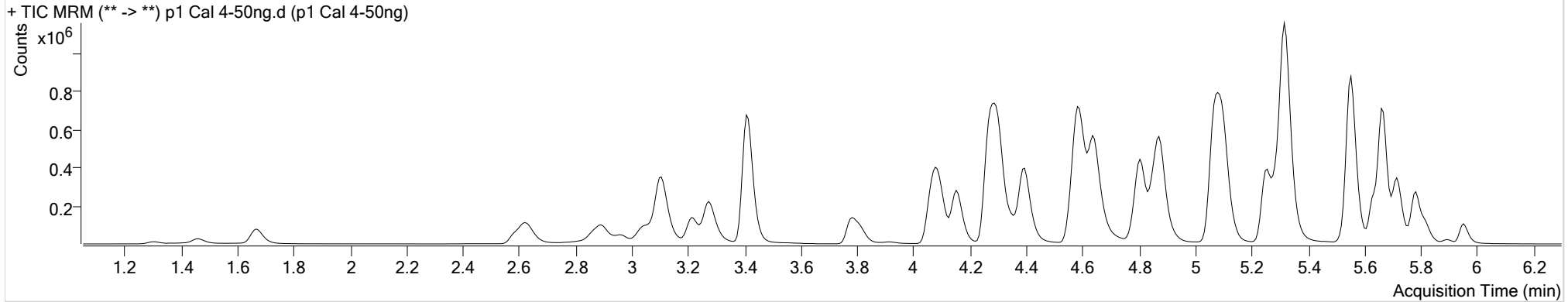
**Batch results**  
**Calibration Last Update**

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10/31/2019 9:36:14 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-D1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 3:52:16 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	940	1756.18	72.2	∞	3283	4.8926 ng/ml
7-aminoclonazepam	4.291	57685	4683.90	81.0	245.84	45538	54.0702 ng/ml
a-hydroxyalprazolam	5.700	3593	209.63	77.4	119.88	3790	50.5595 ng/ml
alpha-PVP	4.398	467294	38125.81	49.8	9708.70	401269	49.6872 ng/ml
Alprazolam	5.777	118069	879.34	101.6	712.46	56083	50.5826 ng/ml
Amphetamine	3.108	655077	4930.78	52.2	∞	125080	53.3279 ng/ml
Benzoylcegonine	3.914	10096	824.18	7.5	185.04	8372	52.0924 ng/ml
Buprenorphine	5.706	13829	∞	16.2	∞	103363	5.1874 ng/ml
Bupropion	4.813	599683	89479.16	58.9	8550.74	387581	52.7870 ng/ml
Carisoprodol	5.733	66045	1867.25	54.7	373.38	65655	48.5262 ng/ml
Citalopram	5.256	418221	2654.44	41.0	654.00	377495	50.4590 ng/ml
Clonazepam	5.620	14125	2899.86	32.6	662.41	5515	51.6631 ng/ml
Cocaine	4.304	373769	35382.30	45.4	11673.18	563860	50.2149 ng/ml
Codeine	2.643	47848	256.13	101.9	7166.52	41069	52.5681 ng/ml
Cyclobenzaprine	5.637	293898	2306.91	9.6	1476.83	210180	50.0771 ng/ml
Dextromethorphan	5.299	264751	26524.05	79.4	337.18	242410	50.5669 ng/ml
Dextrorphan	4.154	120728	50419.41	211.6	14260.29	330192	50.8159 ng/ml
Diazepam	5.955	79448	734.51	87.1	653.43	77823	50.9209 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	135024	23292.75	66.8	346.52	148555	53.7764 ng/ml
Diphenhydramine	5.327	910495	142550.87	33.3	456.55	1450225	49.7499 ng/ml
Doxylamine	4.588	1061003	70252.92	96.8	56295.74	858438	51.2156 ng/ml
EDDP	5.291	89406	713.63	42.1	3022.09	108663	49.5384 ng/ml
Fentanyl	5.106	29442	4108.65	72.8	227431.19	311808	4.8290 ng/ml
Fluoxetine	5.716	268437	31517.85	9.0	∞	231525	50.3613 ng/ml
Hydrocodone	3.072	114441	∞	41.0	264.10	155931	51.9409 ng/ml
Hydromorphone	1.672	98703	1420.65	75.5	2317.79	75377	51.0786 ng/ml
Ketamine	4.074	395846	16231.09	38.1	2597.65	362607	52.1584 ng/ml
Lamotrigine	4.315	33733	3162.27	80.5	2318.01	362607	54.3572 ng/ml
Lorazepam	5.748	5108	136.74	59.4	34.02	5515	46.1928 ng/ml
Meprobamate	4.935	16961	5125.37	26.1	145.15	17180	49.7453 ng/ml
Methadone	5.668	576768	40471.17	51.9	1256.28	525111	49.6418 ng/ml
Metoprolol	4.354	92364	∞	96.6	4967.60	935754	54.5864 ng/ml
Mirtazapine	4.643	820806	43700.47	49.2	14554.28	401269	51.4896 ng/ml
Mitragynine	5.234	71944	4657.28	38.7	4165.27	525111	47.4856 ng/ml
Morphine	1.307	25247	5646.05	20.9	6360.11	4717	53.0196 ng/ml
Norbuprenorphine	5.017	457	32.79	70.9	15.30	4287	4.4925 ng/ml
Nordiazepam	5.901	16115	2630.01	58.7	541.78	10364	50.6647 ng/ml
Norfentanyl	4.115	57830	194552.14	37.1	849.56	525126	4.8632 ng/ml
Norhydrocodone	3.113	4242	81.62	33.2	91.70	36095	48.4518 ng/ml
Noroxycodone	2.964	72535	∞	48.5	1584.32	41787	52.3989 ng/ml
O-desmethyl-tramadol	3.414	843471	29338.37	6.1	628.39	933523	50.2304 ng/ml
Oxazepam	5.758	5489	60.95	76.2	19.01	7055	51.2256 ng/ml
Oxycodone	2.895	204880	532.35	31.4	1502.07	175201	51.4383 ng/ml
Oxymorphone	1.457	42970	1857.35	47.4	481.23	31168	50.0884 ng/ml
Phentermine	3.818	156917	2542.34	2.1	126.42	369269	55.0127 ng/ml
Promethazine	5.556	674273	1159.11	30.7	7419.93	605023	49.5304 ng/ml
Quetiapine	5.544	471384	∞	59.7	7743.05	135093	55.0128 ng/ml
Sertraline	5.784	115891	703.27	91.4	753.39	101544	49.7134 ng/ml
Temazepam	5.825	65359	489.99	29.8	148.05	72166	50.4421 ng/ml
Tramadol	4.280	886874	2301.63	3.5	499.87	935754	52.3371 ng/ml
Trazodone	5.099	479209	6395.93	78.8	200461.22	385285	53.0269 ng/ml
Venlafaxine	5.074	680253	1270.23	36.3	663.90	762739	50.2213 ng/ml
Zolpidem	4.878	777008	27262.75	31.0	10449.52	745159	51.9362 ng/ml



# AM #28 Multi-Drug Quant. Results



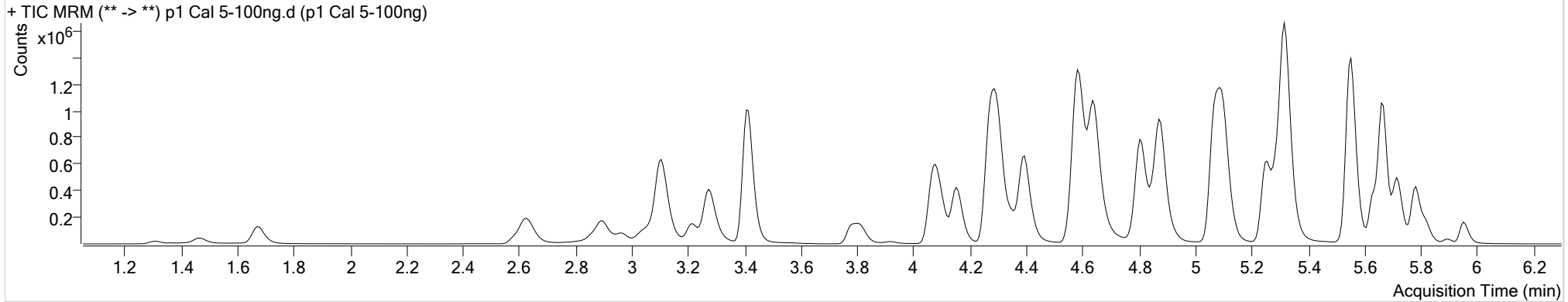
**Batch results**  
**Calibration Last Update**

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10/31/2019 9:36:14 AM

**Instrument Type** Falco  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-E1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 4:02:46 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	1986	∞	74.3	8572.25	3544	9.5734 ng/ml
7-aminoclonazepam	4.285	105104	28746.94	82.9	11315.90	44097	102.4878 ng/ml
a-hydroxyalprazolam	5.707	7361	105.10	73.5	215.45	4109	94.5724 ng/ml
alpha-PVP	4.398	941271	33575.41	49.6	30795.69	412488	97.2541 ng/ml
Alprazolam	5.784	227091	1533.44	103.3	2765.40	55630	98.0871 ng/ml
Amphetamine	3.108	1221898	∞	52.7	22714.56	128730	97.8589 ng/ml
Benzoylcegonine	3.914	18979	626.32	7.9	∞	8751	95.3331 ng/ml
Buprenorphine	5.706	25765	905.46	16.3	∞	101732	9.8051 ng/ml
Bupropion	4.813	1204627	85507.03	58.5	18338.59	401392	103.4209 ng/ml
Carisoprodol	5.733	119759	3318.17	54.9	250.53	60745	94.7955 ng/ml
Citalopram	5.256	805673	67135.92	41.9	536.11	377305	97.3023 ng/ml
Clonazepam	5.620	26335	1675.24	34.8	1526.94	5275	101.9893 ng/ml
Cocaine	4.298	732318	44686.85	45.7	77210.68	568021	97.7718 ng/ml
Codeine	2.643	92325	211.14	102.8	9545.49	40868	102.7537 ng/ml
Cyclobenzaprine	5.637	550908	4368.69	9.8	143.29	202267	97.6272 ng/ml
Dextromethorphan	5.299	504246	∞	79.5	16757.53	237063	98.6460 ng/ml
Dextrorphan	4.154	240442	24692.13	211.5	1639.57	335852	99.7828 ng/ml
Diazepam	5.955	150689	974.39	86.9	1369.45	76542	98.4310 ng/ml



# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.622	261735	15300.63	67.4	26197.13	154017	101.4236 ng/ml
Diphenhydramine	5.320	1752157	69725.82	33.2	37327.19	1429967	96.8861 ng/ml
Doxylamine	4.581	2159240	68629.44	96.1	84332.08	892340	100.7922 ng/ml
EDDP	5.291	193283	708.55	42.9	2026.01	117931	98.8820 ng/ml
Fentanyl	5.106	55988	168.46	71.8	∞	302865	9.4228 ng/ml
Fluoxetine	5.716	489908	∞	9.0	7768.82	213924	99.6415 ng/ml
Hydrocodone	3.072	226452	128.53	40.9	385.19	161646	99.9233 ng/ml
Hydromorphone	1.672	193922	3022.54	76.4	1399.05	77114	98.2698 ng/ml
Ketamine	4.074	794607	31441.38	38.4	1625.26	373872	102.2258 ng/ml
Lamotrigine	4.315	63736	2950.59	79.6	4978.91	373872	100.7452 ng/ml
Lorazepam	5.755	10409	367.91	52.2	33.84	5275	94.9441 ng/ml
Meprobamate	4.935	33310	183.46	26.5	318.52	17933	93.5750 ng/ml
Methadone	5.668	1085329	33656.45	52.6	45348.87	508501	96.2005 ng/ml
Metoprolol	4.354	174475	944165.20	98.0	7304.81	964124	101.0822 ng/ml
Mirtazapine	4.643	1636256	5708.63	49.2	∞	412488	100.2351 ng/ml
Mitragynine	5.234	138882	22896.86	39.2	39845.30	508501	94.3218 ng/ml
Morphine	1.313	47963	2293.32	21.6	2812.31	4668	102.3703 ng/ml
Norbuprenorphine	5.017	917	67.95	78.4	49.32	4604	9.2576 ng/ml
Nordiazepam	5.901	32661	3683.92	55.1	1648.15	10463	102.2847 ng/ml
Norfentanyl	4.115	116268	62182.40	37.5	2825.09	538484	9.5141 ng/ml
Norhydrocodone	3.120	8838	220.48	34.8	58.51	37851	94.8066 ng/ml
Noroxycodone	2.964	143899	819.16	49.2	55978.38	43373	100.5995 ng/ml
O-desmethyl-tramadol	3.414	1704419	71850.18	6.2	47345.35	963661	98.5883 ng/ml
Oxazepam	5.758	11111	238.39	68.4	106.94	7789	95.1624 ng/ml
Oxycodone	2.895	414277	9255.39	31.6	5406.47	183041	99.8802 ng/ml
Oxymorphone	1.463	85550	4478.77	48.7	∞	32255	96.8152 ng/ml
Phentermine	3.818	299734	7405.85	2.1	664.22	378082	103.8976 ng/ml
Promethazine	5.556	1245050	92981.19	30.3	1465.76	565390	97.6448 ng/ml
Quetiapine	5.544	912762	153300.06	60.1	9173.28	141855	102.3418 ng/ml
Sertraline	5.784	199130	717.30	90.3	1208.47	89739	96.5378 ng/ml
Temazepam	5.825	130927	5505.70	29.3	244.90	73190	99.7750 ng/ml
Tramadol	4.280	1742322	44386.21	3.4	1582.84	964124	100.7942 ng/ml
Trazodone	5.099	906971	160377.35	78.6	155809.57	382328	101.8174 ng/ml
Venlafaxine	5.074	1339608	1650.11	36.4	790.23	774770	97.3900 ng/ml
Zolpidem	4.878	1566598	59694.59	30.7	∞	764248	102.5562 ng/ml

# AM #28 Multi-Drug Quant. Results



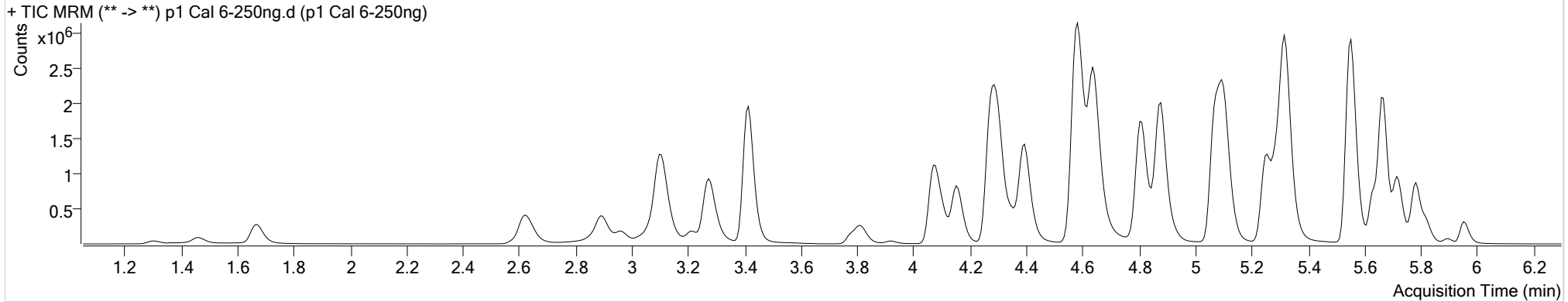
**Batch results**  
**Calibration Last Update**

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10/31/2019 9:36:14 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-F1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 4:13:17 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	5377	823.42	70.5	4713.08	3663	25.0618 ng/ml
7-aminoclonazepam	4.285	208337	15219.64	81.0	8386.30	36873	244.1170 ng/ml
a-hydroxyalprazolam	5.707	18019	425.60	74.6	798.21	4116	229.5423 ng/ml
alpha-PVP	4.398	2356166	193171.72	49.7	26678.24	404747	247.9240 ng/ml
Alprazolam	5.784	524565	1714.03	103.2	2660.51	50196	251.1176 ng/ml
Amphetamine	3.108	2639692	25774.73	52.0	46022.08	124806	219.8788 ng/ml
Benzoylcegonine	3.921	50630	6986.25	7.6	∞	9417	239.3725 ng/ml
Buprenorphine	5.706	57621	2203.46	16.5	∞	91309	24.4073 ng/ml
Bupropion	4.813	2976159	∞	58.3	136474.06	397367	259.7435 ng/ml
Carisoprodol	5.733	271309	32961.61	53.8	1434.06	52195	249.4056 ng/ml
Citalopram	5.256	1914073	∞	41.0	3348.83	355177	245.6448 ng/ml
Clonazepam	5.620	63726	∞	32.6	521.95	5341	245.5886 ng/ml
Cocaine	4.298	1748923	144386.20	45.0	84182.59	531212	249.8557 ng/ml
Codeine	2.643	210120	551.27	101.3	20331.87	38656	248.4714 ng/ml
Cyclobenzaprine	5.637	1290055	83064.03	9.7	∞	182887	252.9822 ng/ml
Dextromethorphan	5.299	1198597	81469.86	79.7	22972.68	222871	249.6762 ng/ml
Dextrorphan	4.154	589680	43294.61	212.0	75115.49	328375	250.7338 ng/ml
Diazepam	5.955	342626	3346.34	87.7	959.42	68103	251.9289 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.615	621005	22603.42	64.9	940.30	153999	242.0578 ng/ml
Diphenhydramine	5.327	4061372	188352.53	33.2	23067.90	1296950	247.2657 ng/ml
Doxylamine	4.581	5510377	16699.37	96.6	12529.00	899925	255.8904 ng/ml
EDDP	5.291	546669	1284.19	42.5	235.04	131873	250.4154 ng/ml
Fentanyl	5.106	139220	7883.16	72.3	98700.12	286257	24.7365 ng/ml
Fluoxetine	5.716	1160090	79565.92	8.9	20164.76	205036	246.4302 ng/ml
Hydrocodone	3.072	570047	∞	40.0	268.84	158176	258.3998 ng/ml
Hydromorphone	1.672	475507	1880.57	73.1	∞	72546	256.4428 ng/ml
Ketamine	4.074	1914657	72026.61	38.6	6844.64	366422	252.3744 ng/ml
Lamotrigine	4.315	132446	10238.26	80.2	14200.72	366422	215.1397 ng/ml
Lorazepam	5.755	27011	565.65	54.9	∞	5341	238.4906 ng/ml
Meprobamate	4.935	85631	10439.39	25.7	1467.24	17475	246.8167 ng/ml
Methadone	5.668	2647105	2067.66	51.8	∞	477286	249.5299 ng/ml
Metoprolol	4.354	389379	720847.21	96.8	∞	909854	240.6850 ng/ml
Mirtazapine	4.643	4017989	28965.50	49.0	133517.33	404747	251.4581 ng/ml
Mitragynine	5.234	363390	2923242.52	39.2	25141.75	477286	262.3278 ng/ml
Morphine	1.307	110848	31096.15	20.6	∞	4501	246.2916 ng/ml
Norbuprenorphine	5.017	2489	199.91	79.5	132.16	4718	26.1632 ng/ml
Nordiazepam	5.901	77545	1254.12	57.4	7338.78	9966	255.8205 ng/ml
Norfentanyl	4.115	291327	36754.33	37.3	∞	513581	24.9594 ng/ml
Norhydrocodone	3.120	21119	348.95	39.7	162.88	36626	231.9455 ng/ml
Noroxycodone	2.964	350090	840.03	49.0	425.53	41915	254.0133 ng/ml
O-desmethyl-tramadol	3.414	4228856	230975.87	6.2	98175.23	937323	251.9052 ng/ml
Oxazepam	5.758	28815	259.96	71.7	119.79	7546	257.2159 ng/ml
Oxycodone	2.888	1070429	8688.98	31.3	3562.11	187998	251.7978 ng/ml
Oxymorphone	1.457	205395	3419.92	47.3	12616.62	29883	251.6688 ng/ml
Phentermine	3.818	668120	6092.49	2.1	502.45	374555	235.5990 ng/ml
Promethazine	5.556	3055569	152142.35	30.4	2205.56	549222	246.3404 ng/ml
Quetiapine	5.544	2067350	51522.79	60.9	41808.92	136987	241.4620 ng/ml
Sertraline	5.784	440069	11493.40	93.1	948.00	77891	245.5984 ng/ml
Temazepam	5.825	325231	4042.84	29.5	265.88	72208	251.4424 ng/ml
Tramadol	4.273	4153416	160009.41	3.4	∞	909854	256.2921 ng/ml
Trazodone	5.099	2184247	380758.27	78.8	254670.51	371142	253.7065 ng/ml
Venlafaxine	5.074	3305896	1895.21	36.2	1587.41	747448	249.1683 ng/ml
Zolpidem	4.878	3852114	79370.30	30.9	49580.88	764148	252.9014 ng/ml

# AM #28 Multi-Drug Quant. Results



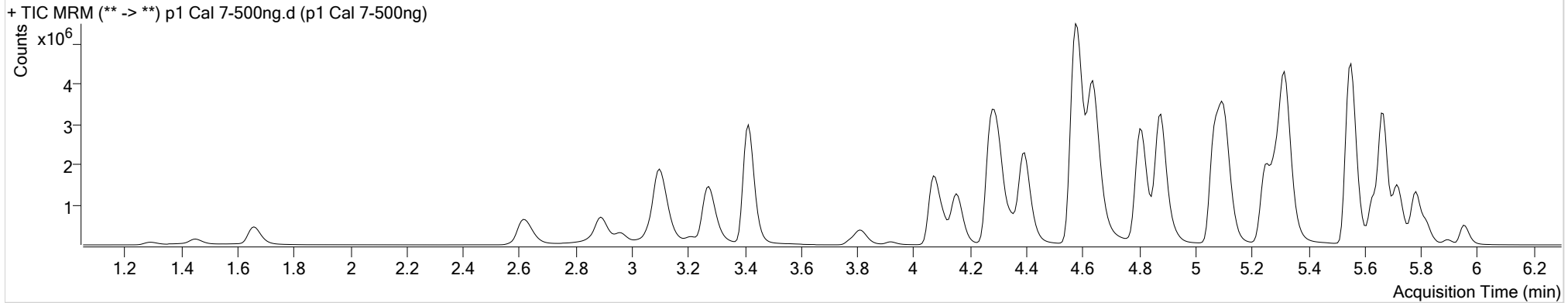
**Batch results**  
**Calibration Last Update**

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**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-G1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 4:23:47 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	8826	6660.22	71.9	996.67	3059	49.2485 ng/ml
7-aminoclonazepam	4.285	271359	1089.64	81.4	1833.46	28416	413.1880 ng/ml
a-hydroxyalprazolam	5.707	34274	∞	71.9	847.03	3603	497.5339 ng/ml
alpha-PVP	4.398	4075465	125048.18	49.8	8427.26	350749	494.7421 ng/ml
Alprazolam	5.784	863841	∞	102.3	∞	41140	504.5710 ng/ml
Amphetamine	3.101	4000932	63076.82	52.1	75349.69	111534	373.9596 ng/ml
Benzoylcegonine	3.921	94949	∞	7.7	1359.29	8718	486.9941 ng/ml
Buprenorphine	5.706	94245	∞	15.5	∞	73024	49.8994 ng/ml
Bupropion	4.807	5164082	187596.65	58.1	975.74	353049	508.3153 ng/ml
Carisoprodol	5.733	432338	92231.42	53.1	1974.76	40433	512.7158 ng/ml
Citalopram	5.256	3127958	∞	41.5	28230.99	289636	492.3191 ng/ml
Clonazepam	5.620	109982	2263.13	32.9	650.64	4702	482.7459 ng/ml
Cocaine	4.298	2851540	259987.10	44.7	60190.88	430220	503.1239 ng/ml
Codeine	2.637	346278	5657.52	100.0	20842.91	32258	491.5506 ng/ml
Cyclobenzaprine	5.637	2124094	74854.81	10.0	374.64	153539	496.2461 ng/ml
Dextromethorphan	5.299	1965195	144867.15	79.8	73339.90	183077	498.5161 ng/ml
Dextrorphan	4.154	1015804	1752.95	212.2	53418.56	284411	498.9821 ng/ml
Diazepam	5.955	580168	1132.22	87.4	∞	60016	484.3065 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.615	1011499	78135.00	67.1	58734.91	140094	434.1964 ng/ml
Diphenhydramine	5.327	6648872	236048.51	33.1	50047.34	1057092	496.4273 ng/ml
Doxylamine	4.574	9900115	173254.44	97.0	271079.26	819418	505.4420 ng/ml
EDDP	5.291	1177952	22504.38	42.6	49356.26	139371	510.7752 ng/ml
Fentanyl	5.106	241416	37876.31	75.3	3844.67	237703	51.6206 ng/ml
Fluoxetine	5.716	1994242	140008.77	9.0	117365.03	175049	496.3662 ng/ml
Hydrocodone	3.072	998543	109.58	40.3	129.18	146443	489.6645 ng/ml
Hydromorphone	1.659	826214	2519.53	72.2	∞	65345	494.8630 ng/ml
Ketamine	4.074	3261467	91220.78	38.2	26637.38	322252	489.4973 ng/ml
Lamotrigine	4.315	188489	16914.37	80.8	15109.56	322252	348.9824 ng/ml
Lorazepam	5.755	56438	∞	54.0	275.52	4702	561.8029 ng/ml
Meprobamate	4.935	156520	22675.95	24.6	2748.12	15433	510.8081 ng/ml
Methadone	5.668	4574958	7910.29	51.9	2419.53	411108	500.3988 ng/ml
Metoprolol	4.354	598714	141937.64	97.0	∞	784644	430.0790 ng/ml
Mirtazapine	4.636	6837623	199817.02	49.0	20162.48	350749	494.1925 ng/ml
Mitragynine	5.234	684476	86932.26	38.7	20362.33	411108	573.2515 ng/ml
Morphine	1.293	183239	9922.62	20.6	5374.84	3772	486.3497 ng/ml
Norbuprenorphine	5.017	4718	182.27	83.0	150.02	4663	51.0909 ng/ml
Nordiazepam	5.901	137709	8129.76	58.9	18318.26	9269	489.0119 ng/ml
Norfentanyl	4.115	510102	21521.45	37.6	19080.48	435091	51.5636 ng/ml
Norhydrocodone	3.113	38654	381.63	36.9	298.36	30496	508.0753 ng/ml
Noroxycodone	2.964	594474	∞	48.9	1386.06	37007	488.9802 ng/ml
O-desmethyl-tramadol	3.414	7267942	395513.27	6.1	38817.00	805615	503.9905 ng/ml
Oxazepam	5.758	60121	607.33	72.2	124.77	8177	496.6204 ng/ml
Oxycodone	2.888	1943203	3395.18	31.3	3070.92	174865	491.7616 ng/ml
Oxymorphone	1.450	349285	∞	49.5	6707.76	26349	485.8386 ng/ml
Phentermine	3.818	1051394	∞	2.1	1733.24	336724	413.5033 ng/ml
Promethazine	5.556	5450785	247247.11	29.7	5513.97	478323	504.3375 ng/ml
Quetiapine	5.537	3261958	12818.81	59.0	96921.15	120786	432.9282 ng/ml
Sertraline	5.791	710229	335656.87	90.8	46363.51	62361	494.9587 ng/ml
Temazepam	5.825	591531	3466.37	29.9	1492.48	65777	502.1774 ng/ml
Tramadol	4.273	6872596	∞	3.3	518.12	784644	492.7697 ng/ml
Trazodone	5.106	3691353	∞	77.5	4290.78	329630	483.4348 ng/ml
Venlafaxine	5.074	5618093	3302.60	35.9	1807.16	638168	495.9786 ng/ml
Zolpidem	4.878	6722147	147129.31	30.0	133499.69	691582	488.0736 ng/ml

# AM #28 Multi-Drug Quant. Results



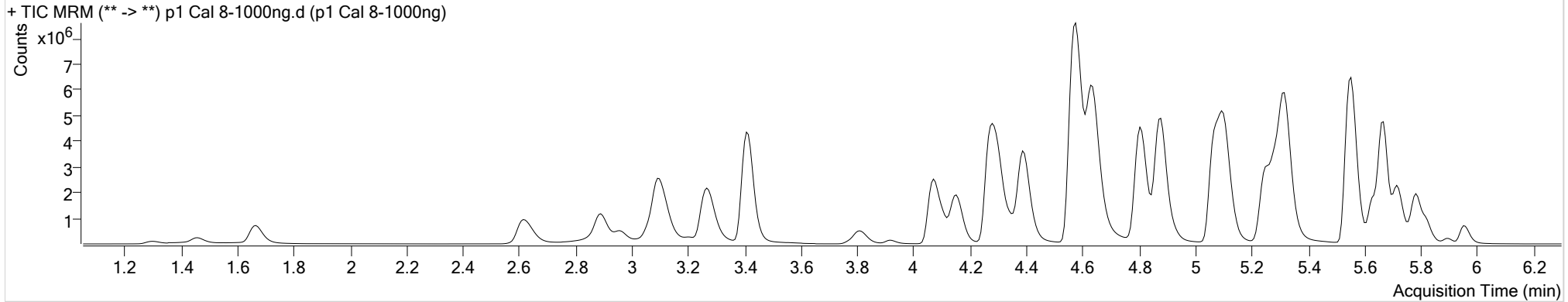
**Batch results**  
**Calibration Last Update**

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**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-H1  
**Injection Volume** 2  
**Acq. Date-Time** 10/28/2019 4:34:17 PM  
**Sample Info.**

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

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.177	14975	41303.29	73.3	279833.62	2555	100.0708 ng/ml
7-aminoclonazepam	4.285	310096	∞	81.7	6747.39	18999	706.8055 ng/ml
a-hydroxyalprazolam	5.707	60246	2677.01	71.9	294.94	3066	1026.4606 ng/ml
alpha-PVP	4.391	6882422	3720.29	49.5	∞	290027	1010.2989 ng/ml
Alprazolam	5.784	1333579	3318.30	104.8	1337.21	32171	996.1162 ng/ml
Amphetamine	3.101	5676278	91697.52	51.9	139209.55	96849	611.9369 ng/ml
Benzoylcegonine	3.914	188416	75379.21	7.6	4229.06	8249	1023.6043 ng/ml
Buprenorphine	5.706	129879	2332.67	15.9	∞	50203	100.0101 ng/ml
Bupropion	4.807	8503388	1989163.63	57.8	246465.37	303065	976.0704 ng/ml
Carisoprodol	5.733	595377	351513.30	53.4	18340.70	26386	1081.5788 ng/ml
Citalopram	5.249	4667906	∞	40.4	∞	209817	1014.2457 ng/ml
Clonazepam	5.620	168159	16452.17	34.0	1291.08	3836	905.8836 ng/ml
Cocaine	4.298	4245672	270914.14	45.2	127624.51	322598	999.1249 ng/ml
Codeine	2.637	524268	6440.61	102.7	∞	26511	906.2760 ng/ml
Cyclobenzaprine	5.637	3285302	2703.61	9.8	31908.39	115021	1024.6640 ng/ml
Dextromethorphan	5.292	2867546	70194.07	79.4	65782.48	132864	1002.5033 ng/ml
Dextrorphan	4.154	1664210	3264.30	213.0	34160.31	232627	999.7650 ng/ml
Diazepam	5.955	898941	599.69	87.7	6475.46	45068	999.5546 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	1621983	69218.12	66.9	13765.40	127887	763.4788 ng/ml
Diphenhydramine	5.320	9945978	495408.46	32.9	41254.88	777104	1009.9298 ng/ml
Doxylamine	4.579	16071613	428153.85	95.6	97359.86	681560	987.0083 ng/ml
EDDP	5.291	2539545	62967.52	42.8	92866.29	151700	1011.8817 ng/ml
Fentanyl	5.106	403797	44204.81	78.6	1178.82	186127	110.2300 ng/ml
Fluoxetine	5.716	3303079	115446.98	8.8	20604.74	142874	1007.4606 ng/ml
Hydrocodone	3.065	1711699	188.71	40.8	200.46	131950	932.3518 ng/ml
Hydromorphone	1.665	1398949	1375.69	72.2	891.08	55932	979.1032 ng/ml
Ketamine	4.074	5240869	∞	37.9	6729.26	273391	927.7949 ng/ml
Lamotrigine	4.315	239344	5738.31	80.6	21956.95	273391	523.0166 ng/ml
Lorazepam	5.755	110618	∞	55.3	367.56	3836	1345.3567 ng/ml
Meprobamate	4.935	276750	6418.48	25.3	2653.50	13520	1030.9436 ng/ml
Methadone	5.668	7253194	201276.33	51.0	4784.50	324625	1004.4079 ng/ml
Metoprolol	4.354	879958	13088.26	96.6	∞	650230	763.7059 ng/ml
Mirtazapine	4.636	10979238	512729.80	49.1	118415.04	290027	960.0524 ng/ml
Mitragynine	5.234	1204195	3770.81	40.3	400562.49	324625	1276.7761 ng/ml
Morphine	1.300	295419	329.79	21.3	7310.41	3145	940.9888 ng/ml
Norbuprenorphine	5.017	8198	415.76	79.6	188.97	4000	104.4955 ng/ml
Nordiazepam	5.901	239577	17571.83	58.2	12435.49	8114	972.3296 ng/ml
Norfentanyl	4.115	876623	61617.20	36.9	6781.29	346662	111.1922 ng/ml
Norhydrocodone	3.113	68954	1198.26	37.3	529.07	23895	1154.8392 ng/ml
Noroxycodone	2.957	998468	6071.74	49.7	1047.91	31770	957.1335 ng/ml
O-desmethyl-tramadol	3.408	11929697	254050.80	6.1	35273.73	660021	1010.0155 ng/ml
Oxazepam	5.758	120885	544.56	72.5	468.40	8477	964.5421 ng/ml
Oxycodone	2.888	3476148	8924.20	31.5	1510.13	158702	969.6293 ng/ml
Oxymorphone	1.457	646791	∞	47.3	1115.63	23446	1011.5879 ng/ml
Phentermine	3.812	1609263	∞	2.0	1103.44	300107	711.1795 ng/ml
Promethazine	5.556	8850857	∞	29.8	61275.10	390726	1002.3023 ng/ml
Quetiapine	5.537	4680803	3223.14	59.3	11689.11	101557	739.6169 ng/ml
Sertraline	5.791	1089450	44561.95	90.8	995.82	46752	1012.5778 ng/ml
Temazepam	5.825	1041181	5636.25	29.5	5004.66	57779	1006.4138 ng/ml
Tramadol	4.273	10366591	612234.38	3.4	6860.37	650230	897.8476 ng/ml
Trazodone	5.106	5692775	307631.53	77.3	4522.41	263091	934.8059 ng/ml
Venlafaxine	5.067	9056957	349553.16	36.0	5605.35	506590	1007.2735 ng/ml
Zolpidem	4.878	10889703	117999.05	30.3	45119.37	590290	926.7695 ng/ml