


TS

**Worklist: 3891**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-3507	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4718	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-5141	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-5163	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-5191	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-5282	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3510	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3521	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3532	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3534	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3549	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3592	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3593	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3604	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3631	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3644	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3645	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3677	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

TS

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

Extraction Date: 12/18/19  
Plate lot#: Item #:IDP-111 Lot:190729

Analyst: Tamara Salazar  
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

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

**LCMS-QQ 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. Pipette **250µL blood (calibrated pipette) Pipette ID: 16** in wells of analytical (standards) plate.
- 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** 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. 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. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.  
Worklist path: *D:\MassHunter\Data\2019\AM 28\121819 MDQ PI wklt 3891 TS*  
Batch Name: *MDQ PI TS*
- 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? Y / N \_\_\_\_\_ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: *Curves limited: Amphetamine: 5-250, Benzoylcegonine: 5-500, Clonazepam: 5-500, Dihydrocodeine: 5-500, Lamotrigine: 5-250, Methamphetamine: 5-500, Metoprolol: 5-500, Norfentanyl: 5-500, Norhydrocodone: 25-1000, Phentermine: 5-500, Quetiapine: 5-500*

0.5-50

TS

*Not evaluated: Lorazepam (calibration curve quadratic)*

TS

TS

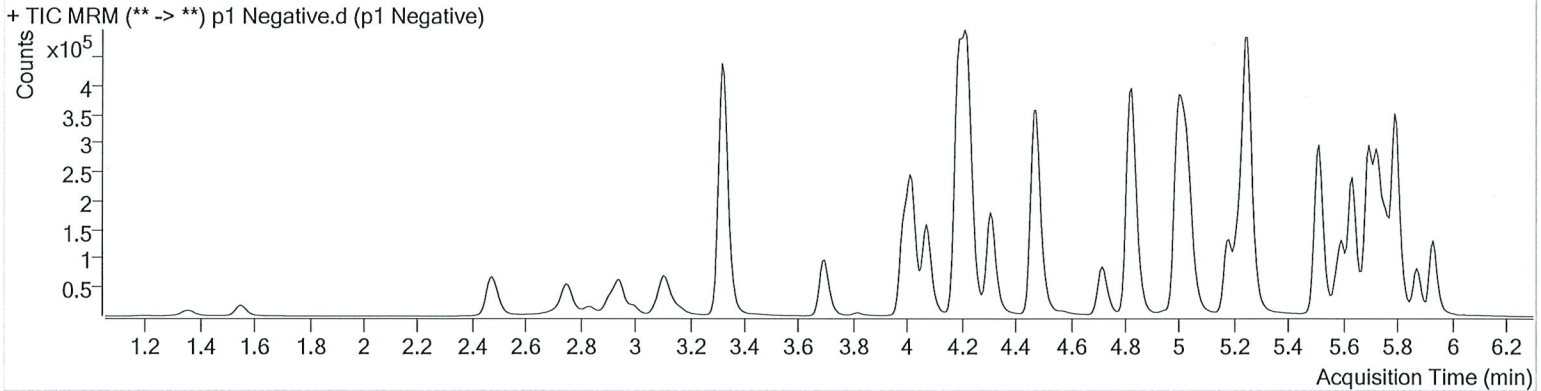


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Negative.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-D11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 6:24:26 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



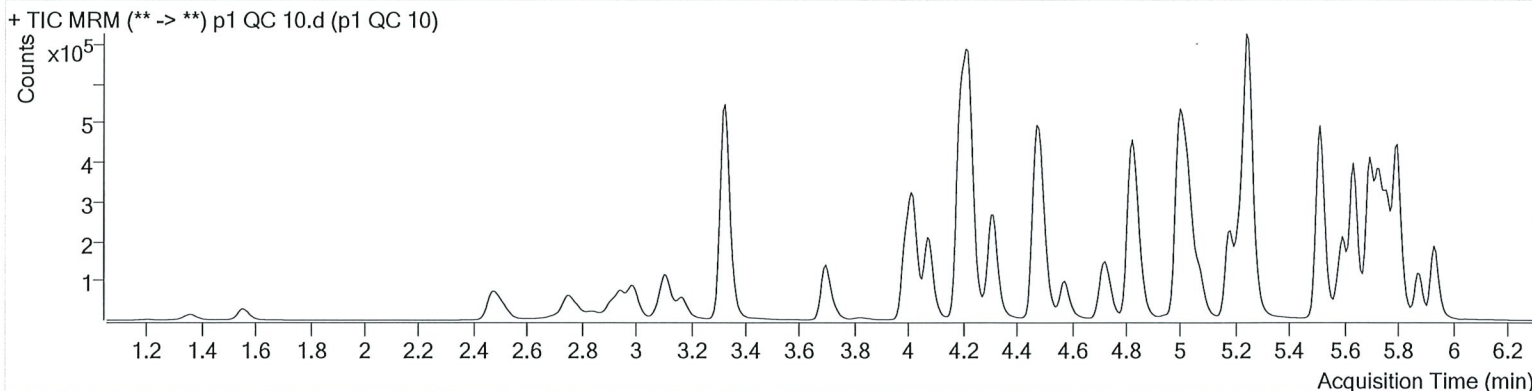
# AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wkst 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
 Calibration Last Update 12/19/2019 10:25:23 AM

**Instrument** Falco **Data File** p1 QC 10.d  
**Type** QC **Sample** p1 QC 10  
**Acq. Method** MDQ P1 Combined 092319.m **Operator** Tamara Salazar  
**Sample Position** P2-H11 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 12/18/2019 4:49:08 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.089	1965	589.28	65.9	29717.67	39553	1.0184 ng/ml
7-aminoclonazepam	4.224	35955	203.70	82.2	6442.19	143669	10.0321 ng/ml
a-hydroxyalprazolam	5.673	7119	277.15	61.6	418.67	36011	10.2846 ng/ml
alpha-PVP	4.324	110682	877.22	50.5	604.15	497430	10.1036 ng/ml
Alprazolam	5.756	67397	354.64	101.5	1949.09	159004	9.7710 ng/ml
Amphetamine	2.994	119915	1189.67	54.6	3040.17	122019	10.6568 ng/ml
Benzoylcegonine	3.847	3042	347.78	8.7	20.33	12456	10.2972 ng/ml
Buprenorphine	5.740	4771	235.23	16.7	53.55	161746	1.1151 ng/ml
Bupropion	4.739	88439	1276.11	57.3	955.42	303401	10.0141 ng/ml
Carisoprodol	5.705	51233	1688.96	52.3	299.80	245114	10.2362 ng/ml
Citalopram	5.182	87896	2282.87	41.9	510.17	394218	10.2863 ng/ml
Clonazepam	5.586	50865	3477.86	33.3	1832.37	92029	10.3101 ng/ml
Cocaine	4.223	116006	7080.67	43.7	7957.25	904747	9.7259 ng/ml
Codeine	2.529	12214	592.11	103.6	2373.57	49811	10.5691 ng/ml
Cyclobenzaprine	5.603	71365	362.84	10.5	121.64	240488	10.7639 ng/ml
Dextromethorphan	5.225	49789	407.99	79.3	859.48	218334	10.3527 ng/ml
Dextrorphan	4.079	30335	4167.87	207.3	2937.82	391401	10.5182 ng/ml
Diazepam	5.941	58379	1043.89	88.9	1412.41	270557	10.0625 ng/ml
Dihydrocodeine	2.508	32735	597.27	66.6	694.52	175143	10.5165 ng/ml
Diphenhydramine	5.252	186538	3477.95	34.0	102.71	1376993	10.5765 ng/ml
Doxylamine	4.494	250251	2515.88	98.2	6178.70	1053458	9.3019 ng/ml
EDDP	5.217	35836	1165.14	40.1	254.52	189629	10.7128 ng/ml
Fentanyl	5.052	7047	721.19	64.7	∞	345767	1.1102 ng/ml
Fluoxetine	5.695	78285	775.81	9.0	337.80	294558	11.5056 ng/ml
Hydrocodone	2.971	25323	290.26	41.1	116.30	163559	10.2283 ng/ml
Hydromorphone	1.567	15795	235.34	79.7	1395.18	60496	9.6741 ng/ml
Ketamine	4.006	93251	815.21	37.7	1196.93	420826	10.1598 ng/ml
Lamotrigine	4.227	9961	1001.31	79.4	761.59	420826	10.7316 ng/ml
Lorazepam	5.728	40940	305.48	59.6	163.00	92029	9.5883 ng/ml
Meprobamate	4.868	15712	∞	26.8	110.93	75755	9.2796 ng/ml
Methadone	5.634	127804	4028.05	52.7	4407.31	590159	10.1720 ng/ml
Methamphetamine	3.175	91399	2949.50	42.7	776.68	306192	11.1300 ng/ml
Metoprolol	4.286	18985	∞	95.6	∞	1131793	10.2006 ng/ml

p1 QC 10

Generated at 10:27 AM on 12/19/2019

⚡ Compound not evaluated. - TS

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	153207	18074.33	50.1	6325.52	497430	9.8129 ng/ml
Mitragynine	5.187	21788	∞	40.9	13478.16	590159	10.0416 ng/ml
Morphine	1.206	2446	248.81	22.5	368.43	2660	10.1497 ng/ml
Norbuprenorphine	4.949	411	43.62	86.9	42.77	16060	0.9863 ng/ml
Nordiazepam	5.881	52497	1397.95	58.3	2023.65	157882	10.4929 ng/ml
Norfentanyl	4.040	11856	1425.48	39.4	104.93	555656	0.9458 ng/ml
Norhydrocodone	3.012	624	187.54	35.7	295.22	30008	18.9744 ng/ml
Noroxycodone	2.862	16953	369.21	46.0	286.68	51424	10.0805 ng/ml
O-desmethyl-tramadol	3.328	217333	1290.51	6.2	470.88	1166839	10.0366 ng/ml
Oxazepam	5.738	68442	520.66	69.8	77.12	439547	10.2633 ng/ml
Oxycodone	2.780	48781	420.16	31.5	434.31	208513	10.7528 ng/ml
Oxymorphone	1.363	10232	176.79	46.2	458.68	36963	10.0572 ng/ml
Phentermine	3.731	31178	1506.04	2.2	64.84	359601	10.6338 ng/ml
Promethazine	5.514	163522	664.15	30.8	∞	675753	11.1662 ng/ml
Quetiapine	5.517	92999	6620.72	59.4	5625.73	121236	10.6064 ng/ml
Sertraline	5.764	53547	2028.67	91.5	249.68	215486	10.8491 ng/ml
Temazepam	5.805	132781	1170.88	29.7	295.07	689835	10.4495 ng/ml
Tramadol	4.206	232732	19311.97	3.5	257.30	1131793	10.7572 ng/ml
Trazodone	5.072	122043	1990.52	78.6	∞	484758	10.1568 ng/ml
Venlafaxine	5.000	171554	979.23	36.9	549.11	921576	10.1245 ng/ml
Zolpidem	4.844	218606	784.44	31.0	6960.63	1008081	10.4287 ng/ml

★★ outside curve range. -TS

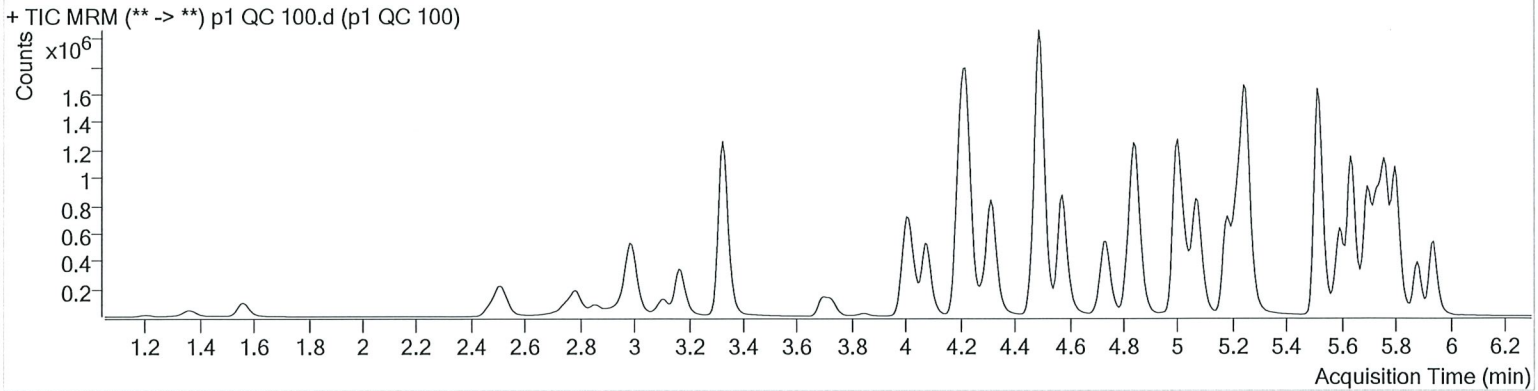
# AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
 Calibration Last Update 12/19/2019 10:25:23 AM

Instrument Falco Data File p1 QC 100.d  
 Type QC Sample p1 QC 100  
 Acq. Method MDQ P1 Combined 092319.m Operator Tamara Salazar  
 Sample Position P2-G11 Comment  
 Injection Volume 2  
 Acq. Date-Time 12/18/2019 5:10:18 PM  
 Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	18140	1922.65	72.4	12973.15	38254	9.9872 ng/ml
7-aminoclonazepam	4.224	270625	10476.74	81.1	15832.98	112873	108.2193 ng/ml
a-hydroxyalprazolam	5.673	57995	1034.67	65.8	689.70	31166	104.6287 ng/ml
alpha-PVP	4.317	1009492	6882.77	50.8	2357.10	468861	96.9632 ng/ml
Alprazolam	5.756	541840	1415.84	100.8	797.71	133138	100.8559 ng/ml
Amphetamine	2.994	880122	13135.16	53.9	37855.05	111607	97.7045 ng/ml
Benzoylcegonine	3.847	29640	728.51	8.2	138.67	11519	106.4267 ng/ml
Buprenorphine	5.740	41638	966.26	16.3	∞	155365	10.1344 ng/ml
Bupropion	4.739	784472	6360.00	57.2	17518.48	279747	102.0391 ng/ml
Carisoprodol	5.705	377687	56388.20	53.4	463.06	186652	102.0472 ng/ml
Citalopram	5.182	777783	1310.52	41.6	5338.80	365480	98.1953 ng/ml
Clonazepam	5.586	375039	12472.00	33.2	651443.76	74040	102.2883 ng/ml
Cocaine	4.223	1039863	40034.02	43.4	58330.32	818402	94.7274 ng/ml
Codeine	2.529	100364	6086.65	101.5	1771.12	44158	107.1957 ng/ml
Cyclobenzaprine	5.603	611350	1047.72	10.6	5076.55	227141	97.8253 ng/ml
Dextromethorphan	5.225	426307	8510.61	79.3	524.93	198963	99.2411 ng/ml
Dextrorphan	4.079	280408	3335.42	210.9	1556.99	371932	101.7582 ng/ml
Diazepam	5.941	492275	1314.53	86.0	4147.33	232753	102.7954 ng/ml
Dihydrocodeine	2.508	281410	3885.49	67.6	22068.67	165478	105.7165 ng/ml
Diphenhydramine	5.252	1670398	65543.93	33.4	1968.02	1280841	96.9711 ng/ml
Doxylamine	4.487	2396325	∞	97.1	141019.03	1038998	109.1363 ng/ml
EDDP	5.224	484534	1235.23	42.5	10471.82	283961	97.3732 ng/ml
Fentanyl	5.046	62445	442.62	64.9	120860.31	334383	10.3985 ng/ml
Fluoxetine	5.695	668945	2552.70	9.0	∞	288667	99.4464 ng/ml
Hydrocodone	2.971	230301	∞	41.8	469.18	160109	99.6209 ng/ml
Hydromorphone	1.567	142228	2163.52	78.2	1204.43	55437	98.9115 ng/ml
Ketamine	4.006	843139	16993.82	38.3	5576.65	395589	104.9428 ng/ml
Lamotrigine	4.234	75628	5546.26	79.7	5788.86	395589	99.5542 ng/ml
Lorazepam	5.728	231531	1617.60	58.3	1430.12	74040	79.7131 ng/ml
Meprobamate	4.868	118399	12143.34	26.5	1335.65	60226	92.5385 ng/ml
Methadone	5.634	1154917	228655.84	53.0	9304.97	552498	97.3365 ng/ml
Methamphetamine	3.168	660223	60013.32	42.6	6828.61	279392	104.1745 ng/ml
Metoprolol	4.286	175822	1796672.01	96.8	∞	1061917	105.3055 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	1421536	208602.07	49.5	16923.26	468861	100.5494 ng/ml
Mitragynine	5.187	200067	10836.10	39.0	134932.34	552498	102.8455 ng/ml
Morphine	1.206	22538	12536.23	22.7	203.72	2546	101.0594 ng/ml
Norbuprenorphine	4.949	3506	444.69	78.3	185.15	15848	10.3693 ng/ml
Nordiazepam	5.881	428767	2155.77	57.5	9966.51	137185	104.4333 ng/ml
Norfentanyl	4.040	124603	1199.04	37.2	893.24	561511	9.5696 ng/ml
Norhydrocodone	3.019	11534	∞	38.0	457.19	37171	85.9203 ng/ml
Noroxycodone	2.856	154417	1593.06	47.8	2926.02	49140	100.0678 ng/ml
O-desmethyl-tramadol	3.328	2024157	26524.67	6.1	6036.78	1094169	101.5218 ng/ml
Oxazepam	5.738	466177	∞	68.3	∞	315205	105.6227 ng/ml
Oxycodone	2.780	441546	6138.93	31.7	1415.33	201033	104.6292 ng/ml
Oxymorphone	1.363	91399	374.56	47.6	528.66	34257	100.5554 ng/ml
Phentermine	3.731	259621	20116.07	2.2	192.93	331786	106.1612 ng/ml
Promethazine	5.514	1385731	140052.25	29.9	67691.91	635684	98.6197 ng/ml
Quetiapine	5.517	817883	2540.81	59.7	7067.34	116469	102.2176 ng/ml
Sertraline	5.764	409693	1776.09	92.0	514.52	183434	95.0206 ng/ml
Temazepam	5.805	1125472	36663.83	30.8	390.76	594765	105.5335 ng/ml
Tramadol	4.206	2027049	4994.22	3.4	664.25	1061917	109.3167 ng/ml
Trazodone	5.072	1120288	316921.58	78.7	7516.84	466467	96.2748 ng/ml
Venlafaxine	5.000	1596181	2895.98	36.6	1968.21	873297	96.7500 ng/ml
Zolpidem	4.844	2002774	131209.19	30.9	25041.36	967654	106.5953 ng/ml



TS

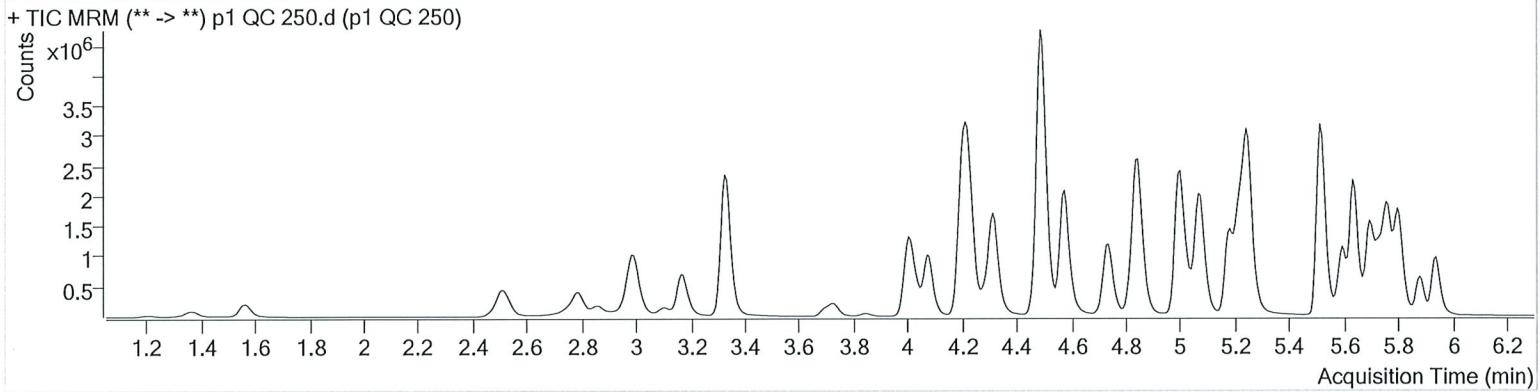


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 250.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 250
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-F11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 5:31:28 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	45753	2949.02	71.8	1812.04	38407	25.1365 ng/ml
7-aminoclonazepam	4.231	430233	482.31	81.4	222.74	79058	247.4226 ng/ml
a-hydroxyalprazolam	5.673	114839	881.51	66.9	785.47	26630	243.6871 ng/ml
alpha-PVP	4.317	2402920	23137.05	50.6	43039.16	437658	247.1156 ng/ml
Alprazolam	5.756	1103029	1487.84	101.2	1208.67	106867	257.0414 ng/ml
Amphetamine	2.994	1691995	21352.04	54.2	47921.24	103444	204.5200 ng/ml
Benzoylcegonine	3.847	81299	1700.84	7.6	621.31	12043	278.8452 ng/ml
Buprenorphine	5.740	97039	2025.09	15.5	886.29	145109	25.2887 ng/ml
Bupropion	4.739	1855620	113793.19	57.9	14949.08	264027	256.7336 ng/ml
Carisoprodol	5.705	670081	4282.76	53.5	2162.51	131509	257.4807 ng/ml
Citalopram	5.182	1803517	∞	41.6	3906.87	330879	251.5076 ng/ml
Clonazepam	5.586	688650	98359.72	32.9	2237.04	59715	234.1010 ng/ml
Cocaine	4.223	2344512	223078.24	42.5	54997.84	718039	243.1366 ng/ml
Codeine	2.529	207748	1663.18	102.2	641.61	38518	255.9129 ng/ml
Cyclobenzaprine	5.603	1394565	93681.61	10.6	10186.86	202887	249.8662 ng/ml
Dextromethorphan	5.225	931367	4018.48	79.0	2247.13	173172	249.4606 ng/ml
Dextropropion	4.079	672835	17909.71	209.7	4668.26	352586	257.4666 ng/ml
Diazepam	5.941	1046091	38428.78	86.7	8726.26	200931	253.7280 ng/ml
Dihydrocodeine	2.508	624759	5399.19	67.3	26908.22	164292	237.9276 ng/ml
Diphenhydramine	5.252	3914680	∞	32.9	1578.68	1163103	249.3743 ng/ml
Doxylamine	4.487	5954903	∞	96.7	441041.90	1025464	278.0657 ng/ml
EDDP	5.217	1394720	2831.03	42.8	699.27	314702	253.0354 ng/ml
Fentanyl	5.046	146863	3358.21	67.3	332351.66	319879	25.6055 ng/ml
Fluoxetine	5.695	1568461	1471.46	9.1	∞	273106	246.2874 ng/ml
Hydrocodone	2.971	556118	1618.23	41.7	184.78	154874	249.5187 ng/ml
Hydromorphone	1.567	342493	2217.71	78.6	2104.44	53271	248.5251 ng/ml
Ketamine	4.006	1977358	3291.54	37.8	3333.54	379750	257.5902 ng/ml
Lamotrigine	4.234	146130	9571.04	79.8	∞	379750	202.2277 ng/ml
Lorazepam	5.728	320946	∞	54.8	∞	59715	138.4733 ng/ml
Meprobamate	4.868	221017	998.71	26.3	3847.39	44406	235.1104 ng/ml
Methadone	5.634	2711347	9661.87	52.7	32734.85	502923	250.8828 ng/ml
Methamphetamine	3.168	1414048	78760.20	42.9	39249.21	256192	246.4259 ng/ml
Metoprolol	4.286	409030	∞	97.0	∞	1006389	259.2548 ng/ml

★ Compound not evaluated. - TS

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	3458485	∞	49.3	179667.70	437658	262.7874 ng/ml
Mitragynine	5.187	461121	34928.28	39.8	299535.06	502923	261.1655 ng/ml
Morphine	1.206	52506	534.29	22.2	1518.70	2405	249.8498 ng/ml
Norbuprenorphine	4.949	8243	665.56	80.2	325.57	15658	25.0051 ng/ml
Nordiazepam	5.881	849344	1625.44	56.9	2206.11	110799	257.1405 ng/ml
Norfentanyl	4.040	339467	3011.98	37.5	12967.93	574091	25.4528 ng/ml
Norhydrocodone	3.019	39010	642.20	41.7	695.76	41977	229.0640 ng/ml
Noroxycodone	2.862	365596	1414.40	47.6	956.91	46275	252.2927 ng/ml
O-desmethyl-tramadol	3.328	4859318	4176.23	6.0	3411.11	1027101	259.9546 ng/ml
Oxazepam	5.731	683341	∞	68.6	1496.23	196934	249.0977 ng/ml
Oxycodone	2.780	1068860	2071.23	31.5	3216.01	195828	260.6612 ng/ml
Oxymorphone	1.363	218743	575.20	48.5	250.28	32781	252.1217 ng/ml
Phentermine	3.731	492961	5188.00	2.2	328.71	302629	222.3707 ng/ml
Promethazine	5.514	3092098	5207.94	30.0	24066.03	558843	249.9381 ng/ml
Quetiapine	5.517	1832694	8710.19	59.9	1860.88	113576	235.6960 ng/ml
Sertraline	5.764	809379	1065.74	89.6	119224.13	140193	245.1272 ng/ml
Temazepam	5.805	2334858	596.96	30.4	958.37	489355	266.5789 ng/ml
Tramadol	4.206	4664647	354745.46	3.3	1039.49	1006389	267.0704 ng/ml
Trazodone	5.072	2822240	120312.27	78.5	115352.41	457453	247.2026 ng/ml
Venlafaxine	5.000	3846192	112456.68	36.2	1429.75	822318	247.1138 ng/ml
Zolpidem	4.844	4810689	106055.61	30.7	1642.34	944451	263.5407 ng/ml

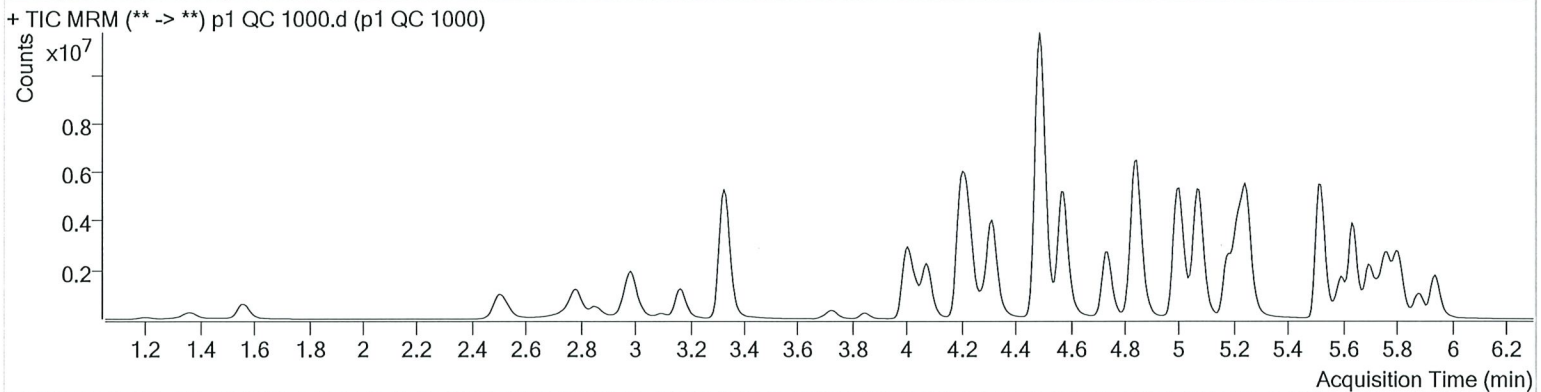
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

**Instrument** Falco **Data File** p1 QC 1000.d  
**Type** QC **Sample** p1 QC 1000  
**Acq. Method** MDQ P1 Combined 092319.m **Operator** Tamara Salazar  
**Sample Position** P2-E11 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 12/18/2019 5:52:38 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.089	158828	77963.88	73.0	50314.31	32442	103.3982 ng/ml
7-aminoclonazepam	4.237	494664	4273.10	81.1	4028.19	26965	837.3969 ng/ml
a-hydroxyalprazolam	5.673	232923	∞	66.3	187.32	15523	850.2556 ng/ml
alpha-PVP	4.317	6535566	∞	50.0	1576.10	294414	998.8457 ng/ml
Alprazolam	5.756	2476648	1690.03	103.1	769.20	63125	979.3614 ng/ml
Amphetamine	2.994	2905424	26721.19	53.3	150446.71	62147	587.7871 ng/ml
Benzoylcegonine	3.847	418894	17079.41	7.8	1113.39	12176	1420.2435 ng/ml
Buprenorphine	5.740	144993	6332.48	15.4	16320.83	59765	91.7442 ng/ml
Bupropion	4.739	4534039	381710.04	57.3	50819.95	162013	1024.2708 ng/ml
Carisoprodol	5.705	1339105	152680.10	53.5	207.28	69498	974.6254 ng/ml
Citalopram	5.175	3672304	7245.93	41.3	1783.22	169501	999.7008 ng/ml
Clonazepam	5.586	1311250	37843.59	32.9	28704.06	35624	749.2803 ng/ml
Cocaine	4.223	5704112	436380.64	42.6	384235.29	430446	986.2022 ng/ml
Codeine	2.529	525721	∞	100.7	8362.99	28194	887.4673 ng/ml
Cyclobenzaprine	5.603	2184582	53813.16	10.6	2491.02	79351	1000.8534 ng/ml
Dextromethorphan	5.225	1421728	82649.25	79.5	1917.28	67597	976.2261 ng/ml
Dextrorphan	4.073	1778166	30040.49	210.3	81690.54	230039	1042.7195 ng/ml
Diazepam	5.941	2338044	∞	88.3	4507.05	122294	933.0018 ng/ml
Dihydrocodeine	2.501	1611572	37866.33	68.0	4635.02	151716	666.8330 ng/ml
Diphenhydramine	5.252	7827442	697425.95	32.9	28011.32	570981	1013.9884 ng/ml
Doxylamine	4.487	16658979	∞	97.2	1707896.00	848926	944.8050 ng/ml
EDDP	5.217	4777457	7708.03	42.1	38051.07	263954	1033.6307 ng/ml
Fentanyl	5.046	248157	301021.64	71.4	11960.60	139038	99.6206 ng/ml
Fluoxetine	5.695	2084977	71338.02	8.9	25944.17	88892	1005.5120 ng/ml
Hydrocodone	2.971	1785126	∞	41.8	2708.90	136870	907.7676 ng/ml
Hydromorphone	1.561	1140445	1425.91	78.3	1057.24	46225	954.9286 ng/ml
Ketamine	4.006	5659864	344553.78	37.7	3126.60	303445	924.8790 ng/ml
Lamotrigine	4.241	252267	31393.02	79.4	63674.88	303445	439.0097 ng/ml
Lorazepam	5.728	384827	∞	58.4	951.04	35624	280.3791 ng/ml
Meprobamate	4.875	408400	17730.02	26.5	5767.31	17986	1074.5484 ng/ml
Methadone	5.634	5370302	957379.13	51.4	∞	248830	1004.0519 ng/ml
Methamphetamine	3.168	2568938	153551.76	42.6	59972.31	134301	859.7325 ng/ml
Metoprolol	4.286	938863	1071782.54	96.1	∞	749060	800.5929 ng/ml

p1 QC 1000

\* compound not evaluated. - TS  
 \*\* outside curve range - TS

Generated at 10:27 AM on 12/19/2019

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	9186899	∞	49.4	3213893.60	294414	1039.0002 ng/ml
Mitragynine	5.180	821377	31896.50	39.7	597145.93	248830	941.5342 ng/ml
Morphine	1.206	167357	4497.55	23.6	473.00	1934	991.3126 ng/ml
Norbuprenorphine	4.949	17268	674.70	79.6	591.52	8859	93.2278 ng/ml
Nordiazepam	5.881	1638173	336.16	57.7	7574.79	58321	944.0733 ng/ml
Norfentanyl	4.040	1204219	98891.91	37.2	114836.61	397913	130.1506 ng/ml**
Norhydrocodone	3.019	156578	2464.82	40.5	395.27	30757	1191.3658 ng/ml
Noroxycodone	2.856	1028137	1702.78	48.5	7048.65	36013	912.9036 ng/ml
O-desmethyl-tramadol	3.328	13958406	429789.39	6.0	70053.42	756181	1014.8470 ng/ml
Oxazepam	5.731	673944	5943.43	71.2	4104.61	55405	875.6345 ng/ml
Oxycodone	2.780	3660459	8885.56	31.6	3183.88	180662	968.7931 ng/ml
Oxymorphone	1.363	722252	∞	46.7	∞	28638	954.0555 ng/ml
Phentermine	3.724	1015912	∞	2.2	1293.83	189807	733.5708 ng/ml**
Promethazine	5.514	4667714	2940.89	30.0	∞	210728	999.8380 ng/ml
Quetiapine	5.517	5004850	2907.60	59.3	3301.14	89718	816.3564 ng/ml**
Sertraline	5.770	811913	10537.74	90.5	34211.97	34816	989.1994 ng/ml
Temazepam	5.805	4690108	369.75	30.4	9259.58	260775	1005.7400 ng/ml
Tramadol	4.199	11555097	127309.84	3.3	4599.94	749060	891.5106 ng/ml
Trazodone	5.072	8016351	420632.22	78.7	1085385.98	306426	1047.9952 ng/ml
Venlafaxine	5.000	10581407	8077.01	35.8	2743.79	556812	1003.0931 ng/ml
Zolpidem	4.844	14016008	434432.50	30.6	200168.20	835348	870.0093 ng/ml

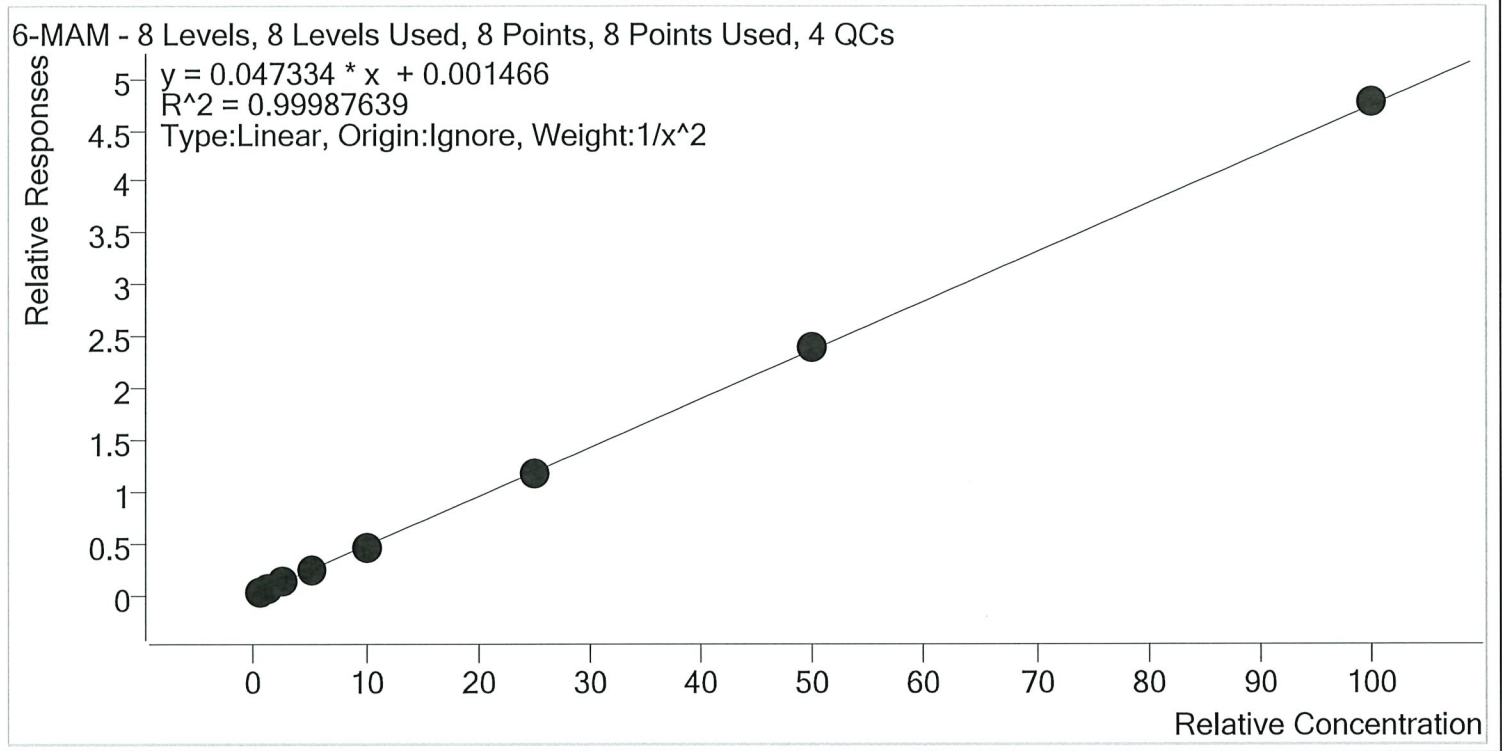
\*\* Outside Curve Range. - TS

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.4
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.5
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.1
p1 Cal 4-50ng	4	✓	5.0	5.0	100.9
p1 Cal 5-100ng	5	✓	10.0	9.9	98.6
p1 Cal 6-250ng	6	✓	25.0	24.9	99.5
p1 Cal 7-500ng	7	✓	50.0	50.7	101.4
p1 Cal 8-1000ng	8	✓	100.0	100.7	100.7



TS

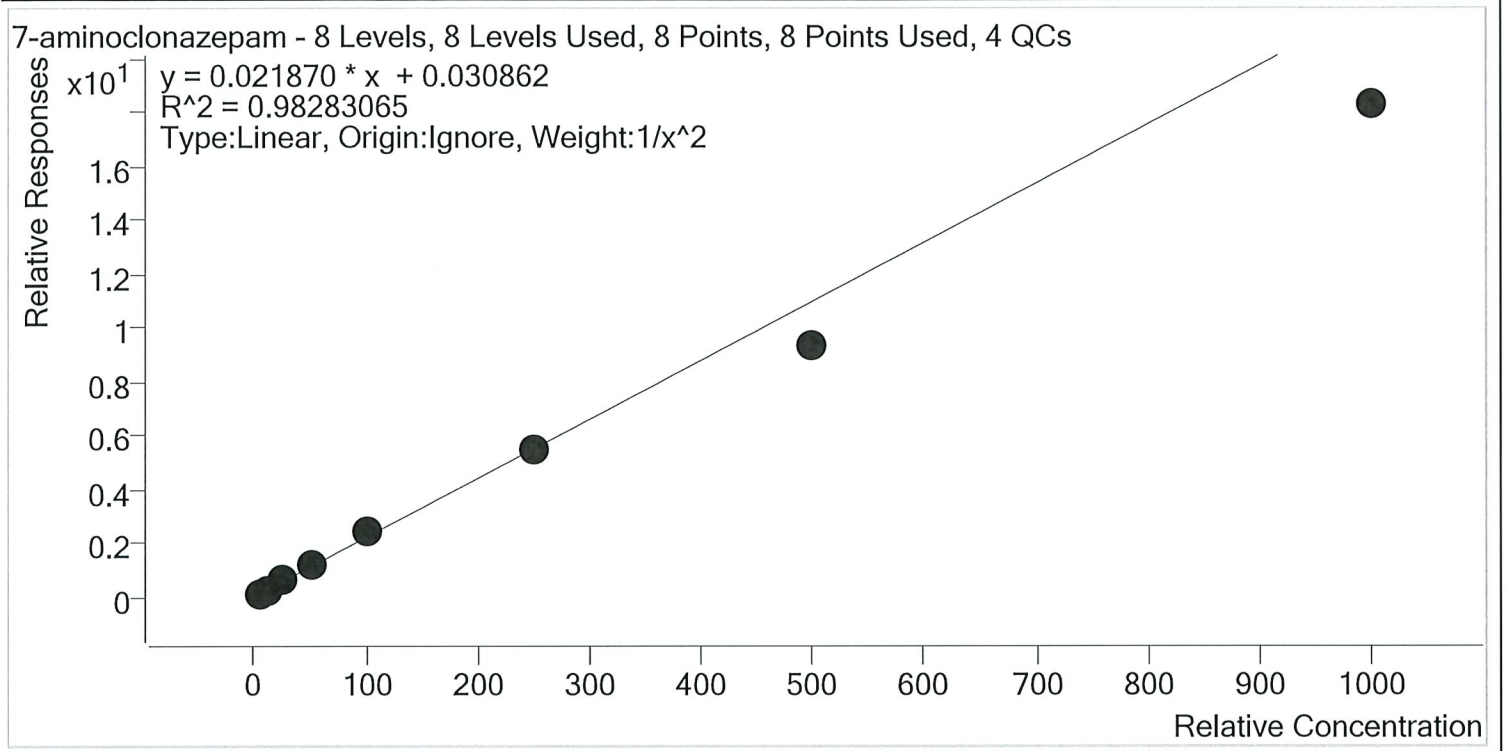
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



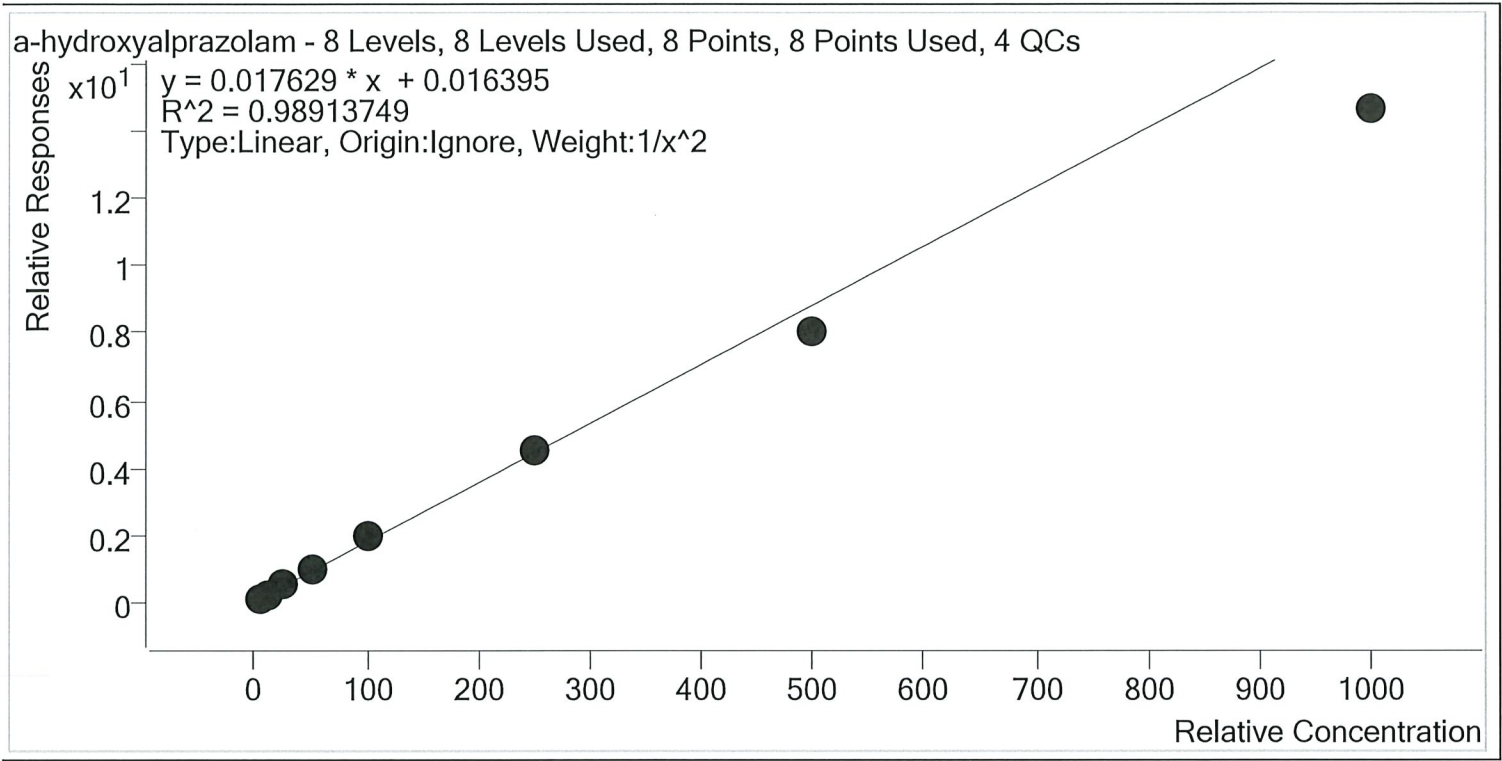
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.5
p1 Cal 4-50ng	4	✓	50.0	56.7	113.3
p1 Cal 5-100ng	5	✓	100.0	111.8	111.8
p1 Cal 6-250ng	6	✓	250.0	247.1	98.9
p1 Cal 7-500ng	7	✓	500.0	427.7	85.5
p1 Cal 8-1000ng	8	✓	1000.0	833.5	83.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



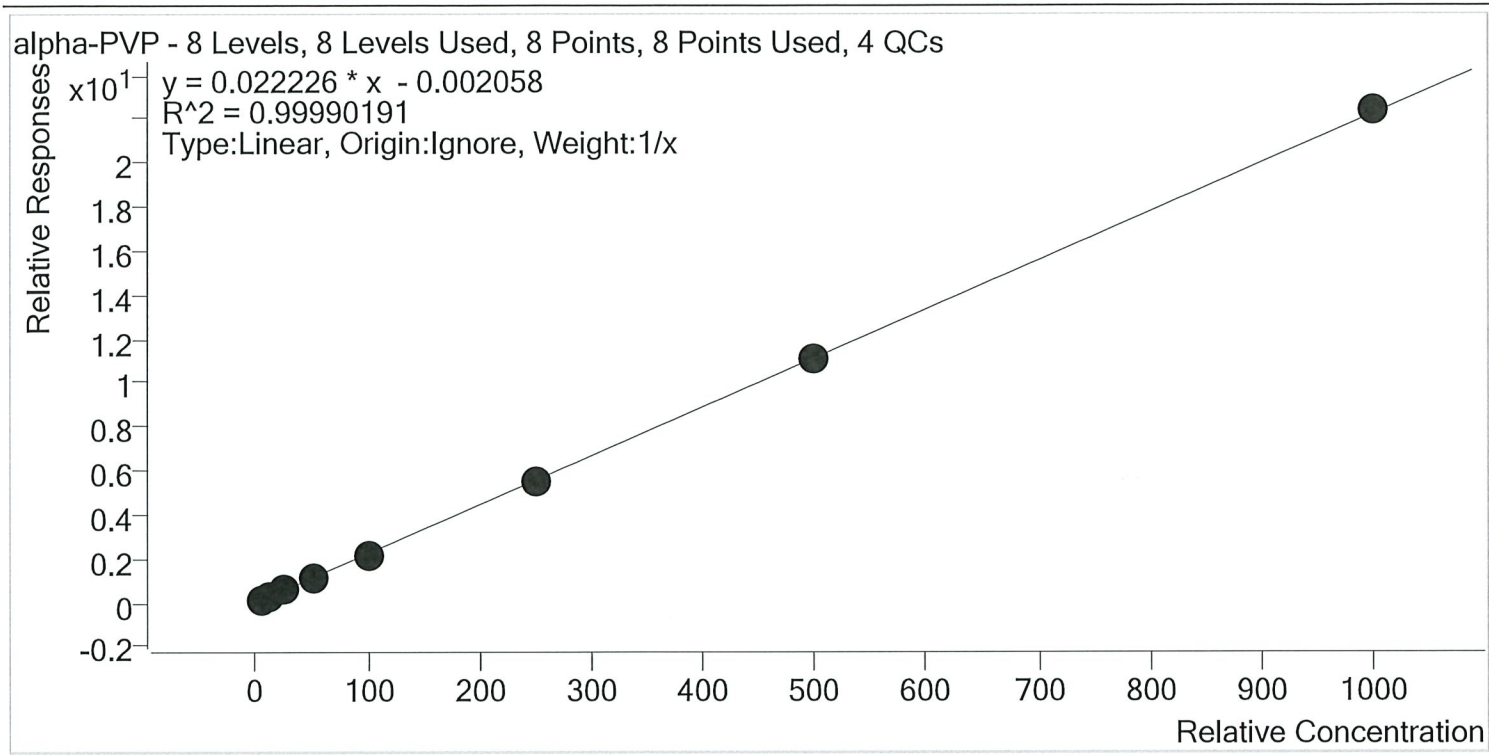
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.2
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	107.7	107.7
p1 Cal 6-250ng	6	✓	250.0	256.0	102.4
p1 Cal 7-500ng	7	✓	500.0	458.7	91.7
p1 Cal 8-1000ng	8	✓	1000.0	831.1	83.1

15



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	104.9
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	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	246.1	98.4
p1 Cal 7-500ng	7	✓	500.0	499.3	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1007.0	100.7

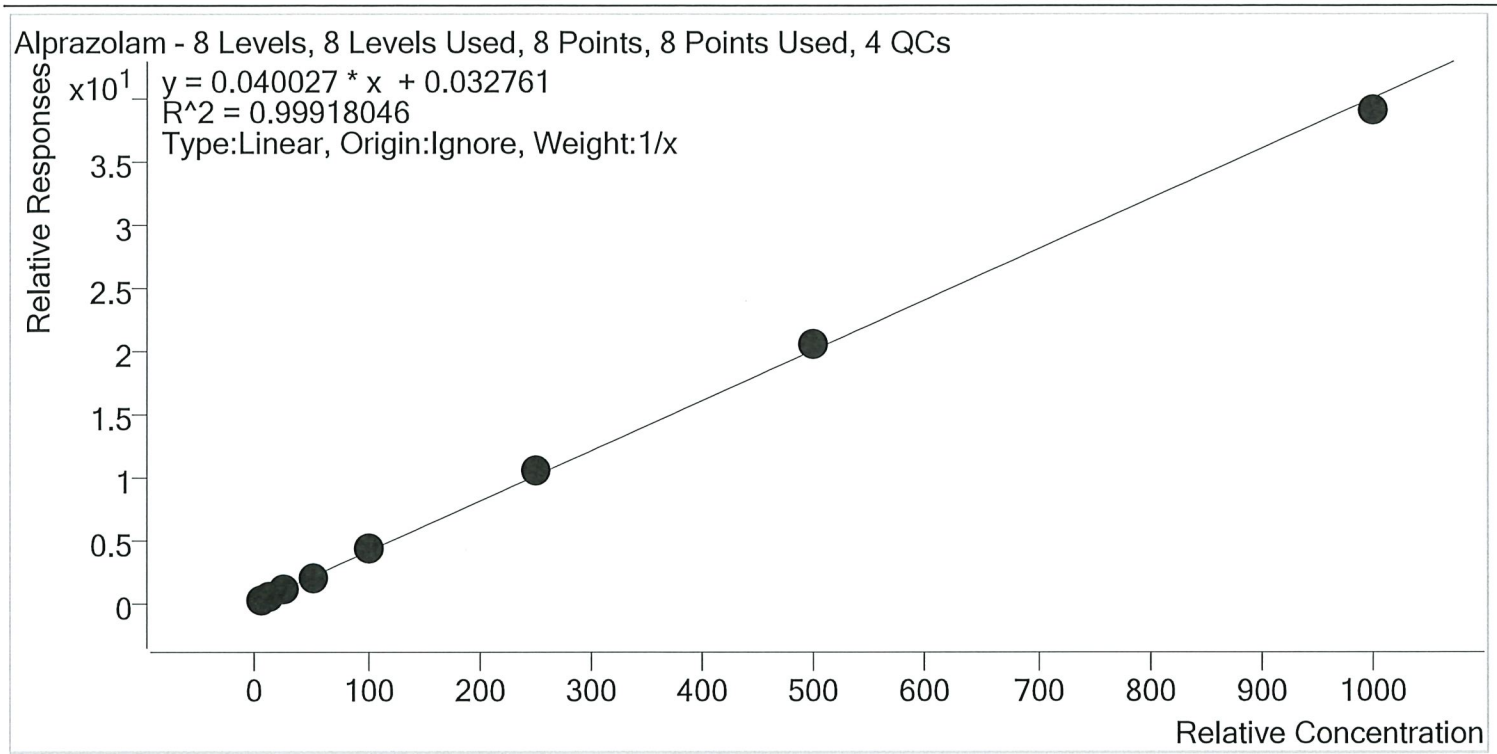


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5



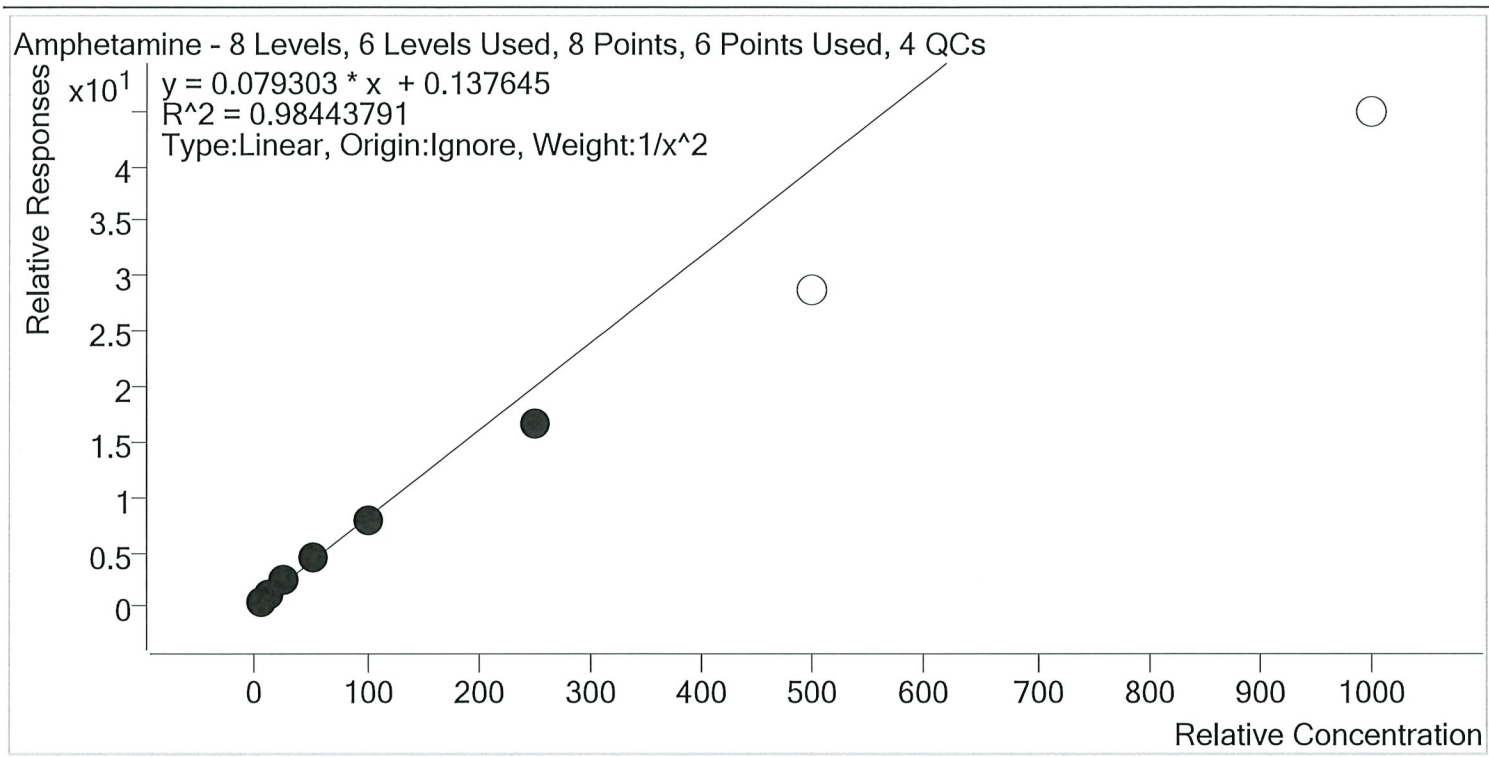
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.7
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	105.2	105.2
p1 Cal 6-250ng	6	✓	250.0	258.4	103.3
p1 Cal 7-500ng	7	✓	500.0	510.4	102.1
p1 Cal 8-1000ng	8	✓	1000.0	975.3	97.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



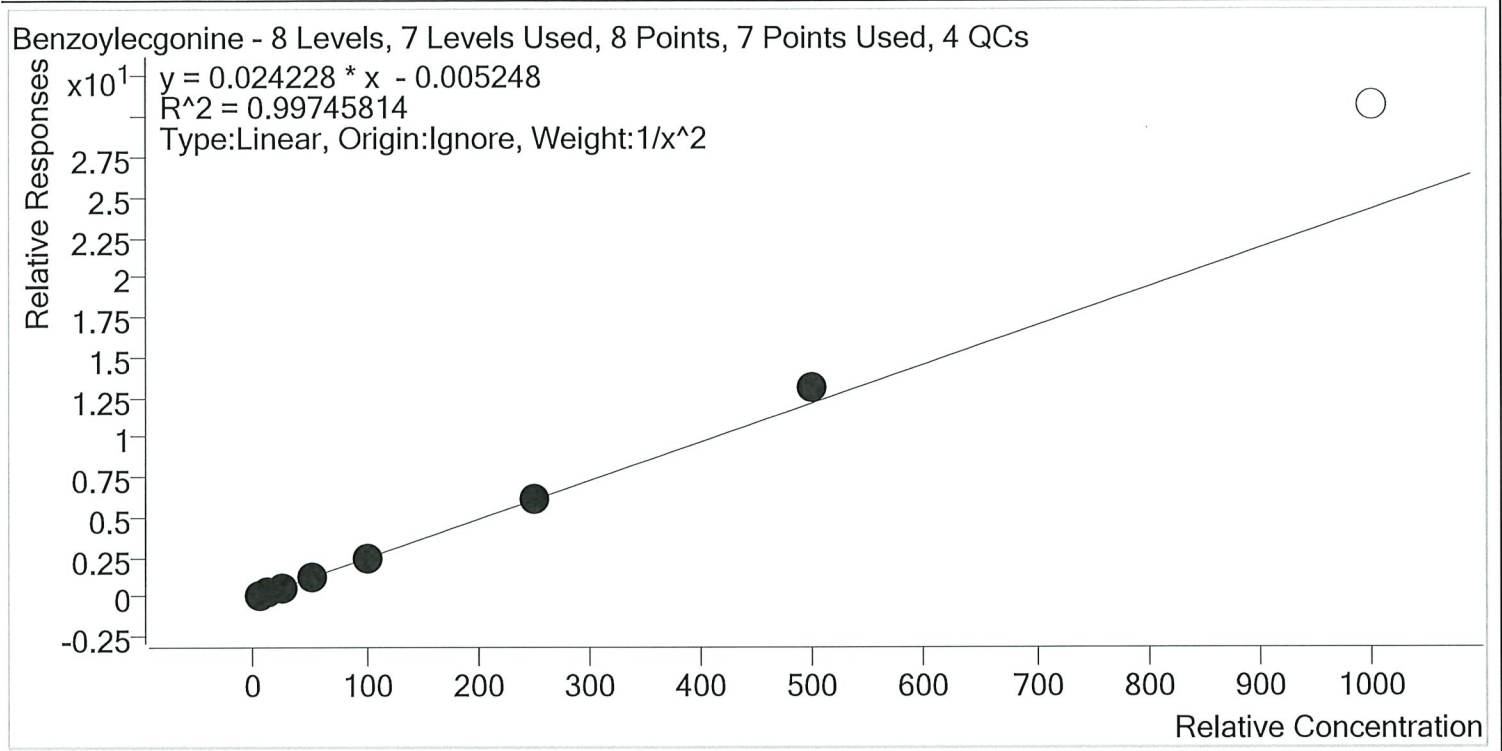
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	27.8	111.0
p1 Cal 4-50ng	4	✓	50.0	53.6	107.3
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	207.6	83.1
p1 Cal 7-500ng	7	×	500.0	359.6	71.9
p1 Cal 8-1000ng	8	×	1000.0	563.8	56.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	47.6	95.3
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	540.8	108.2
p1 Cal 8-1000ng	8	×	1000.0	1267.8	126.8

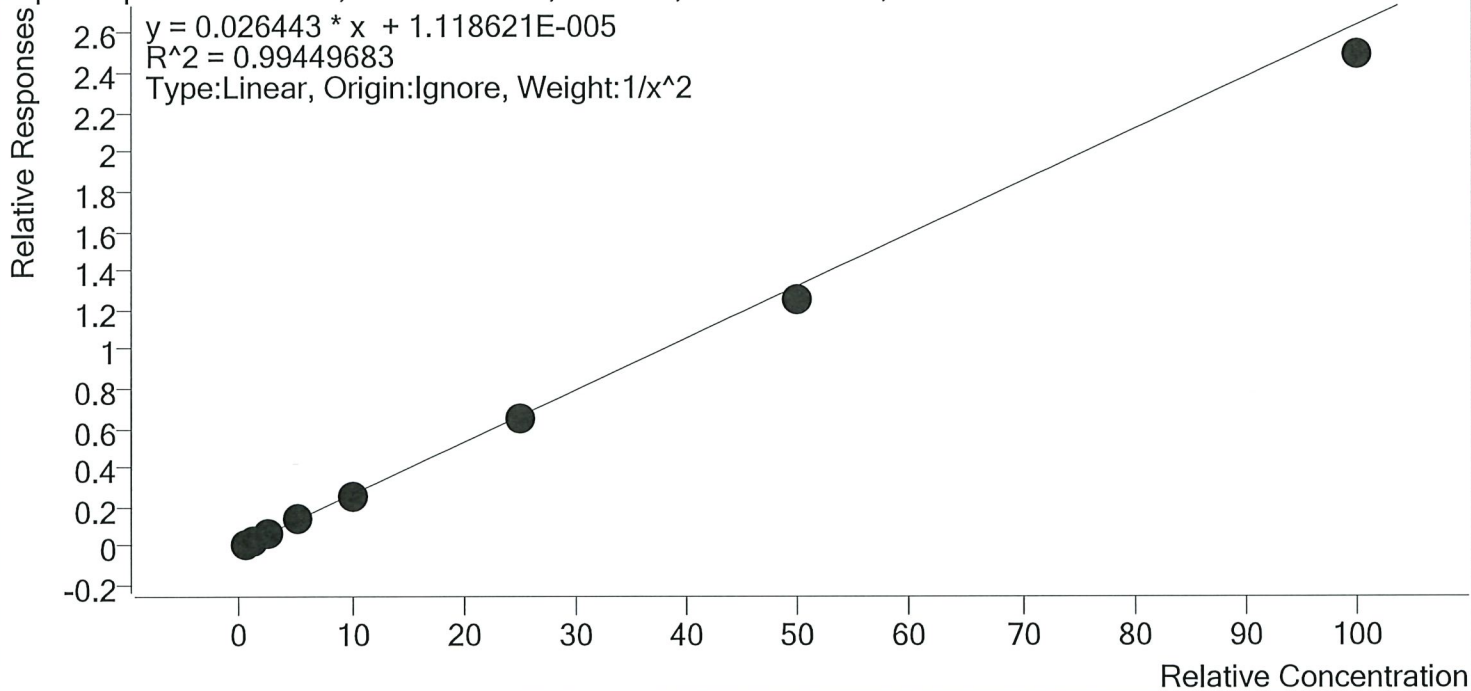
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	93.1
p1 Cal 2- 10ng	2	✓	1.0	1.1	111.1
p1 Cal 3 -25ng	3	✓	2.5	2.6	105.9
p1 Cal 4-50ng	4	✓	5.0	5.2	104.1
p1 Cal 5-100ng	5	✓	10.0	9.8	98.1
p1 Cal 6-250ng	6	✓	25.0	24.8	99.2
p1 Cal 7-500ng	7	✓	50.0	47.2	94.3
p1 Cal 8-1000ng	8	✓	100.0	94.3	94.3

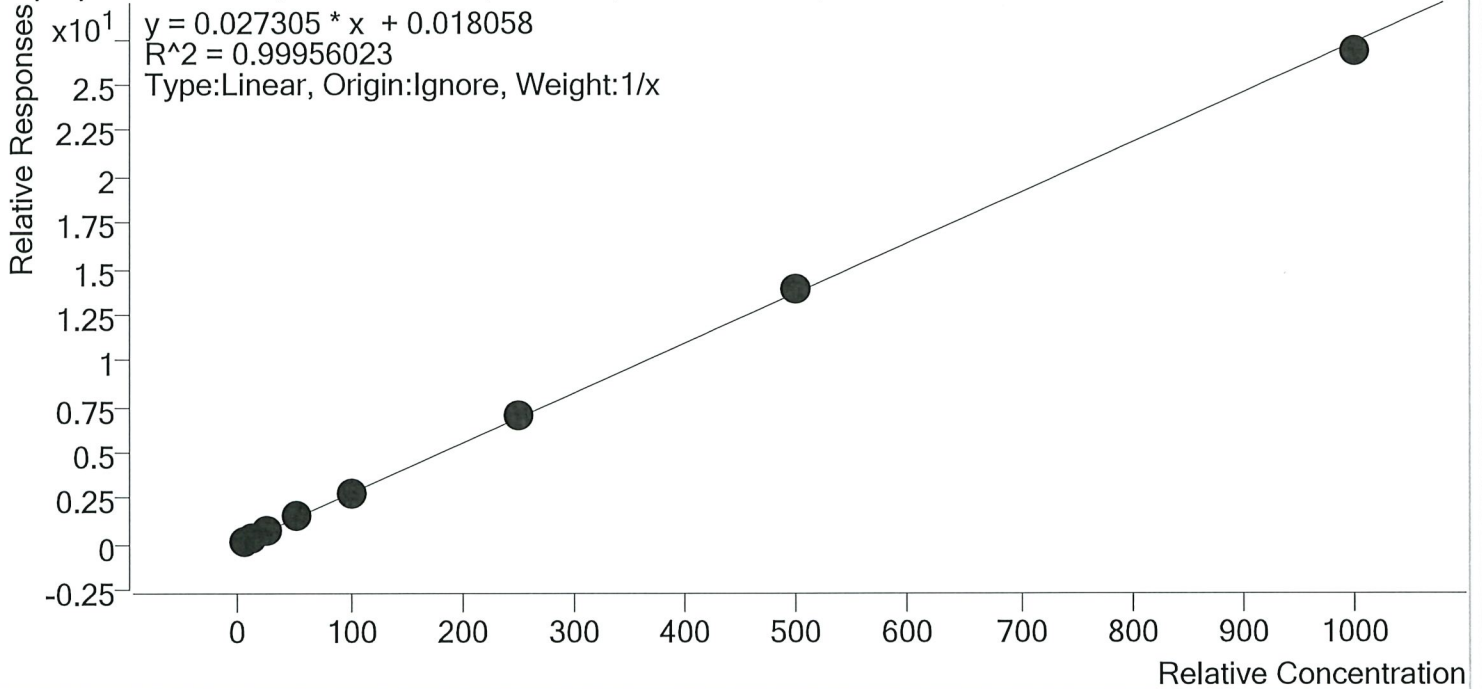
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk\lst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.8	103.6
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	509.8	102.0
p1 Cal 8-1000ng	8	✓	1000.0	981.5	98.1

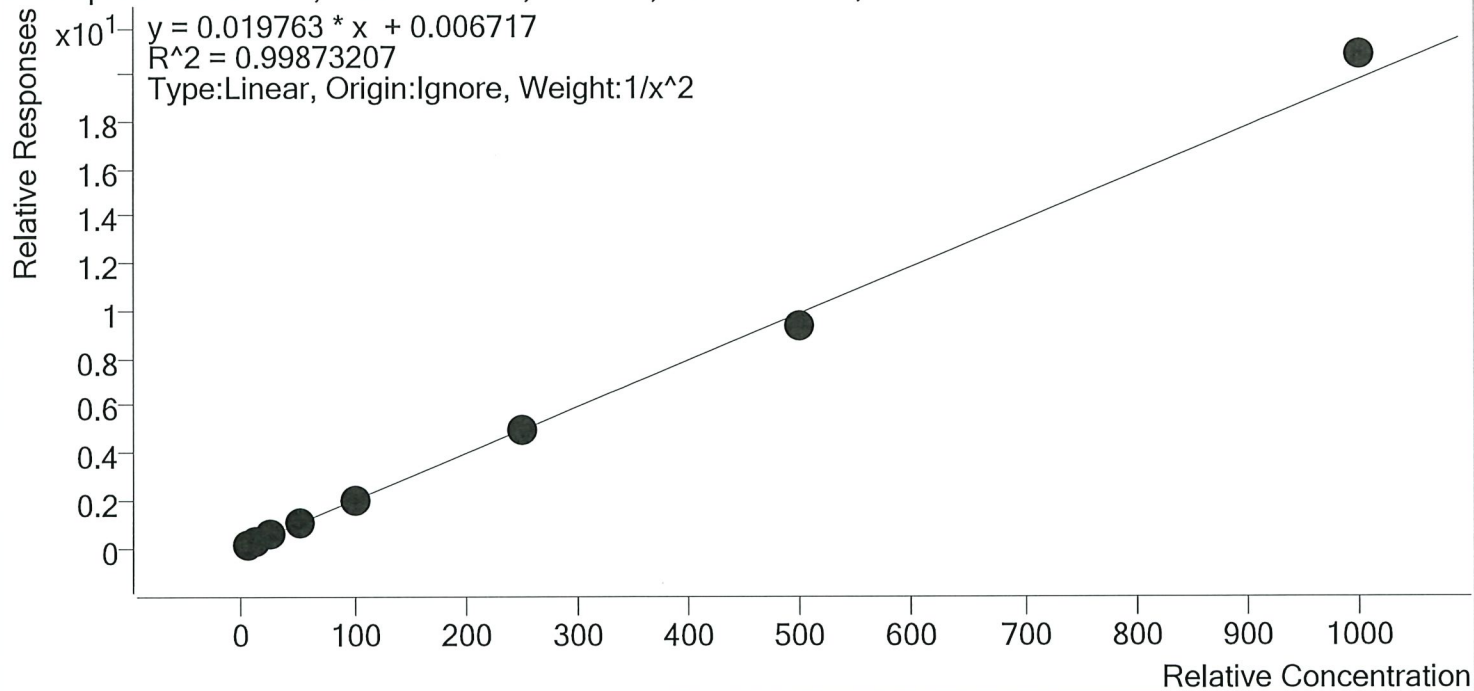
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



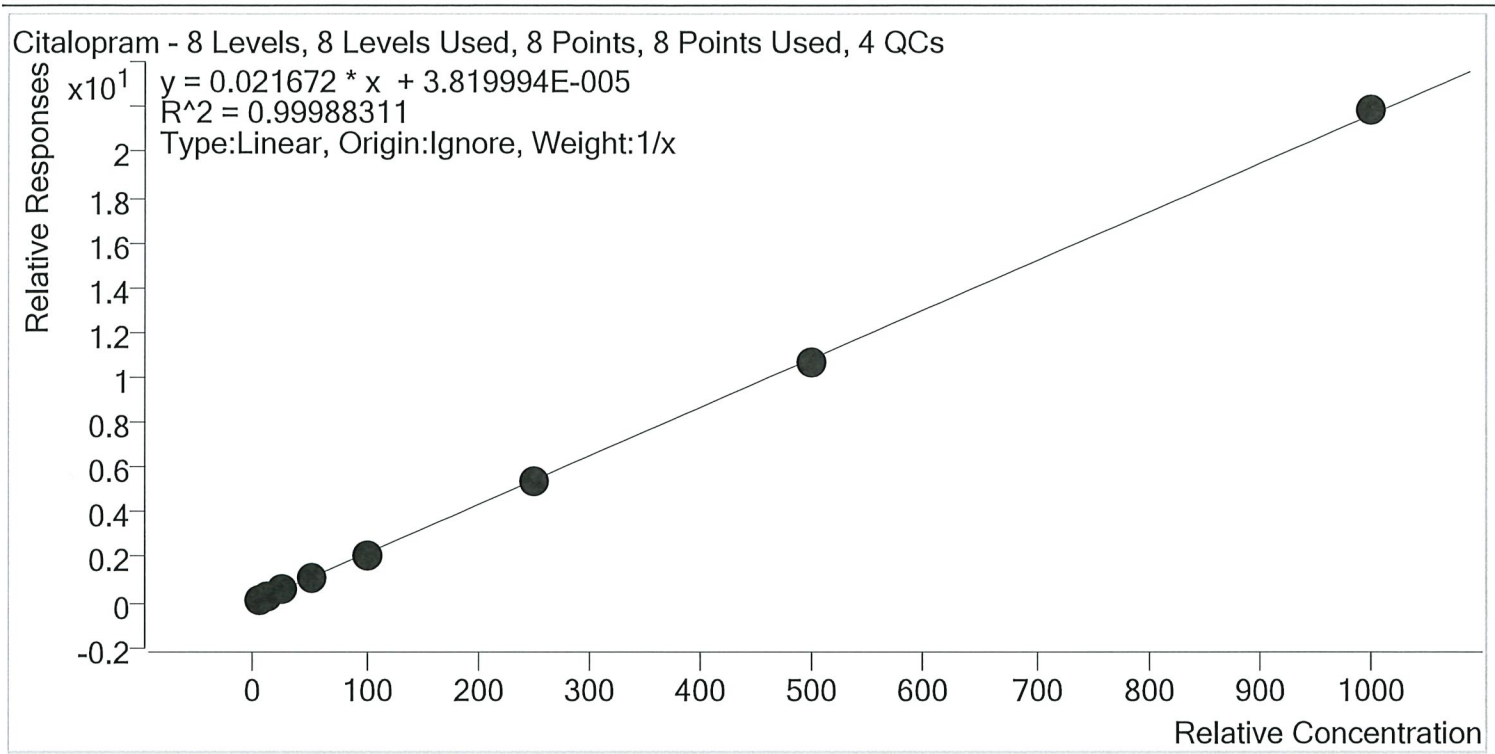
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	248.9	99.6
p1 Cal 7-500ng	7	✓	500.0	474.1	94.8
p1 Cal 8-1000ng	8	✓	1000.0	1052.9	105.3

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6



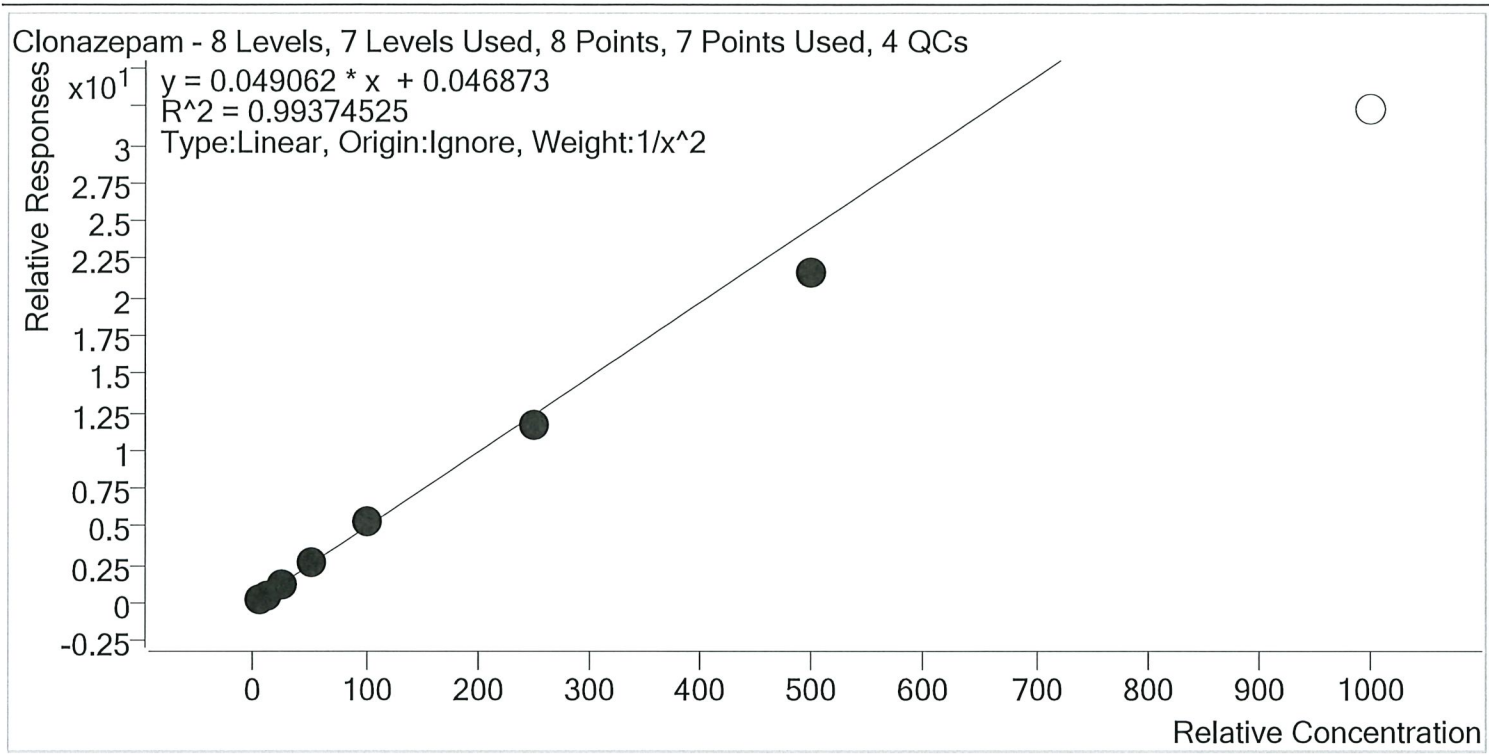
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.8
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	494.5	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1009.3	100.9

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng	4	✓	50.0	53.6	107.2
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	239.1	95.6
p1 Cal 7-500ng	7	✓	500.0	440.9	88.2
p1 Cal 8-1000ng	8	×	1000.0	657.2	65.7



TS



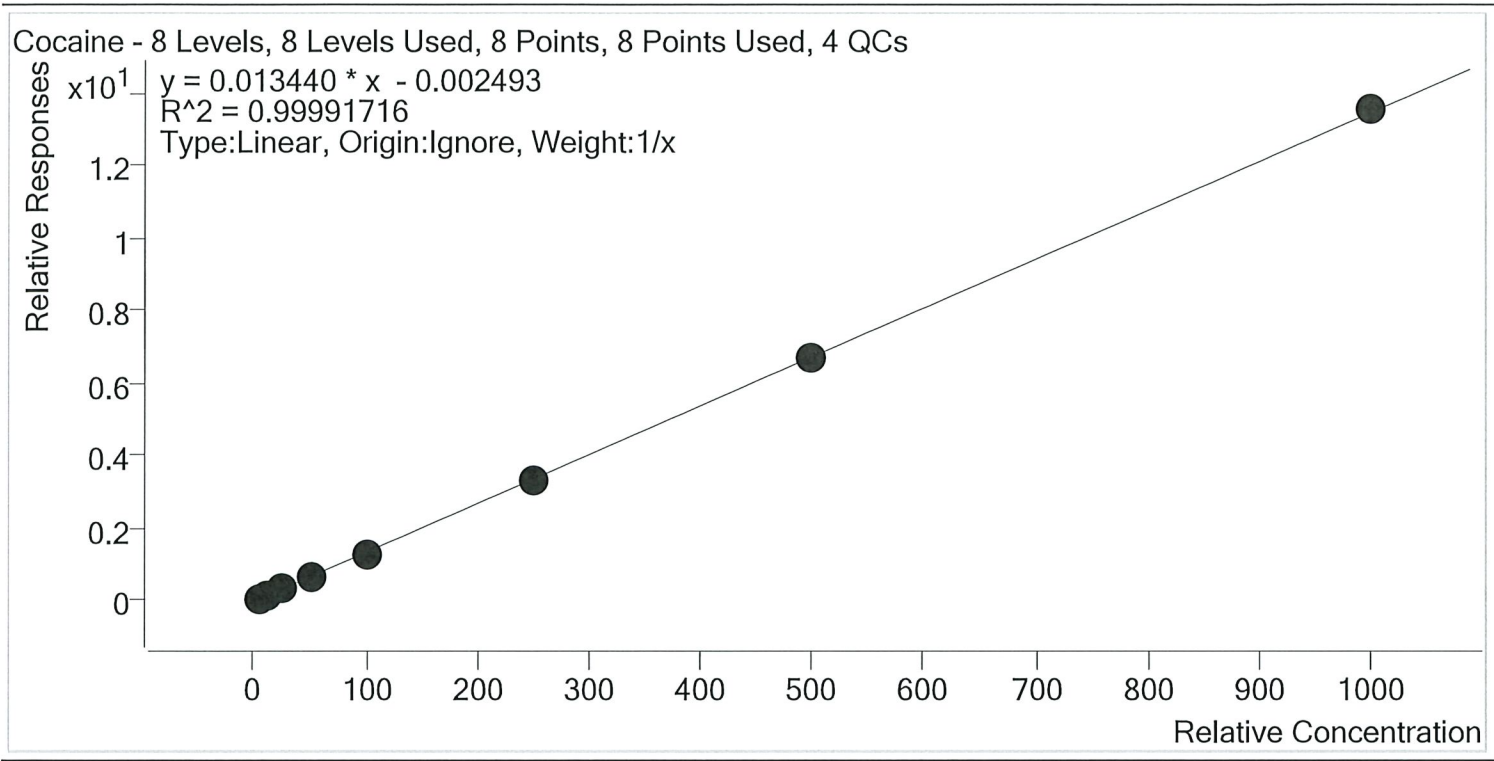
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 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	5.2	104.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	497.7	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1006.6	100.7

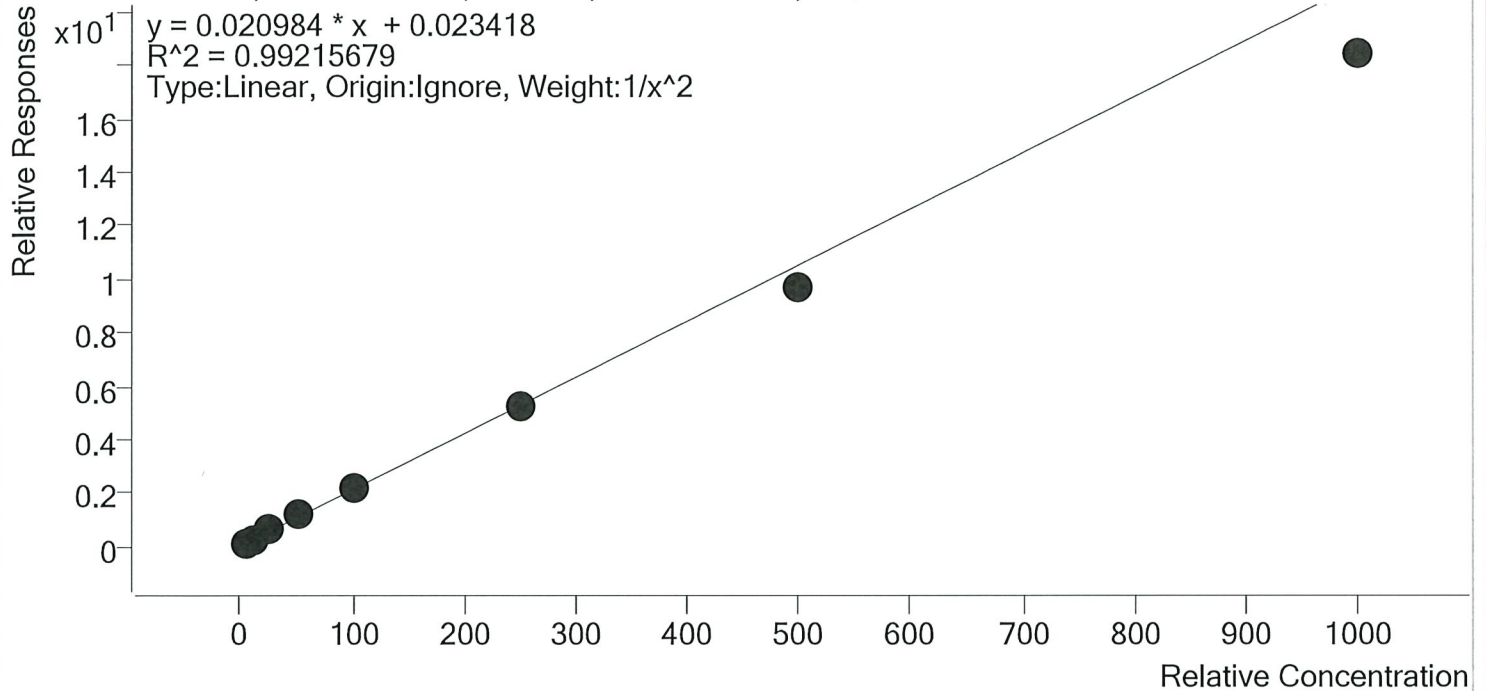
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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



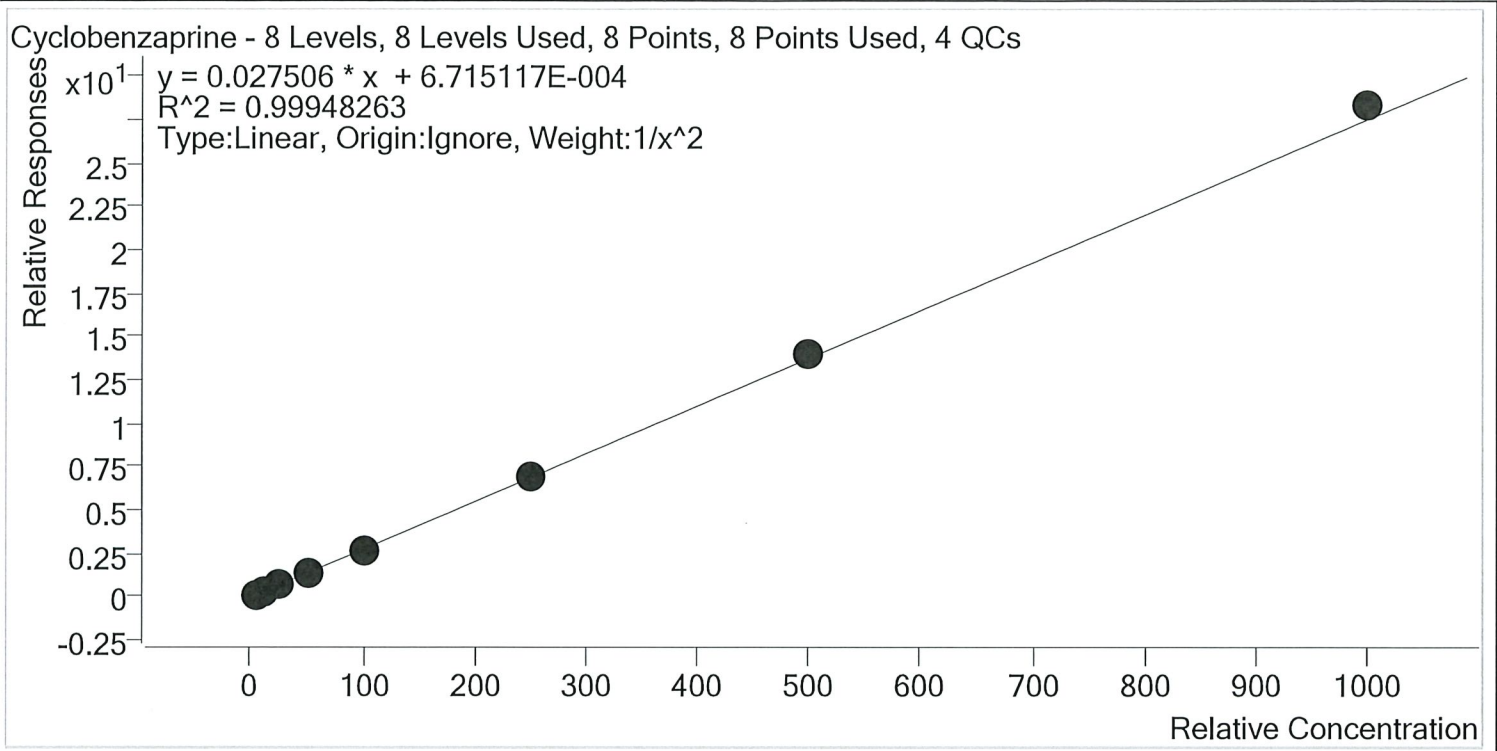
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	27.0	107.9
p1 Cal 4-50ng	4	✓	50.0	55.2	110.3
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	463.3	92.7
p1 Cal 8-1000ng	8	✓	1000.0	876.3	87.6

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



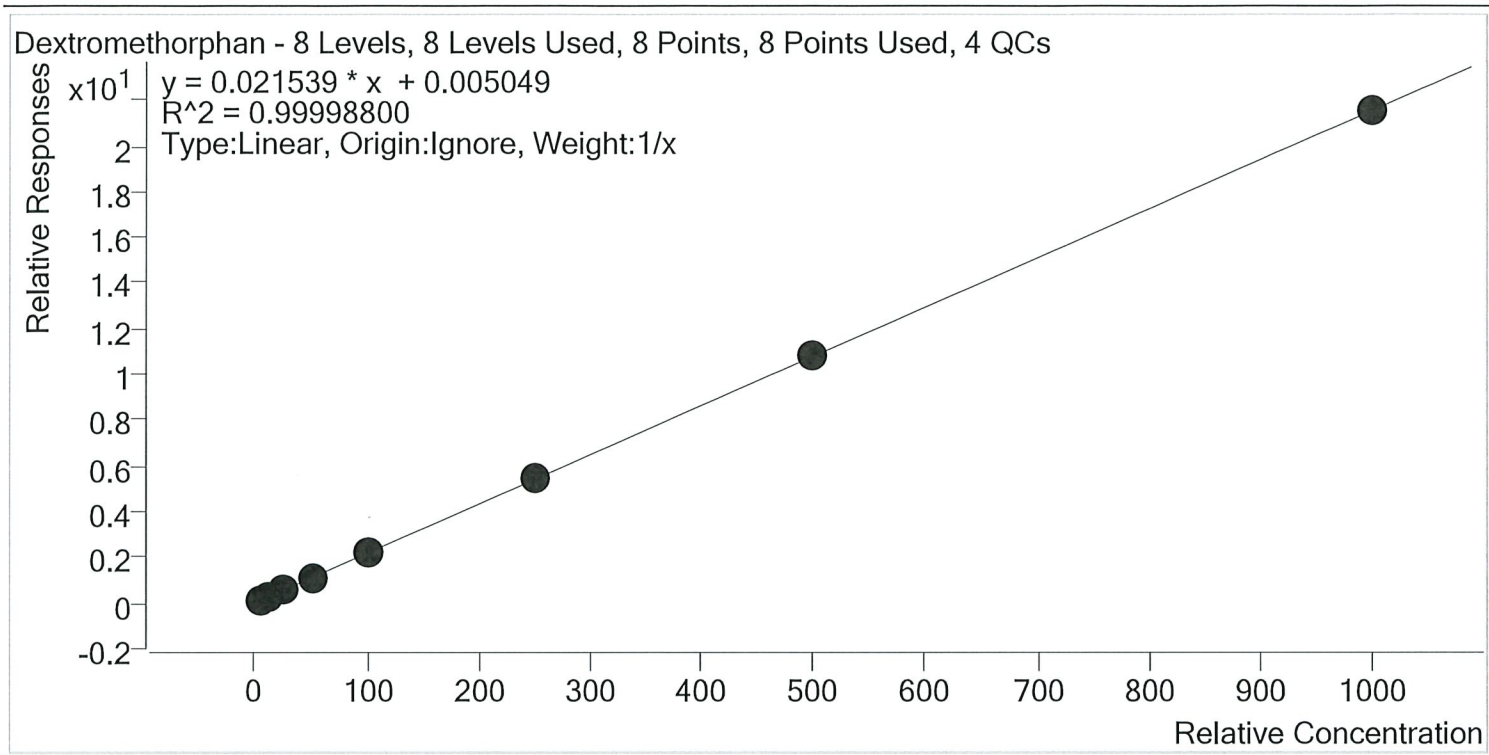
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	511.6	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1029.5	103.0

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk\lst 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3



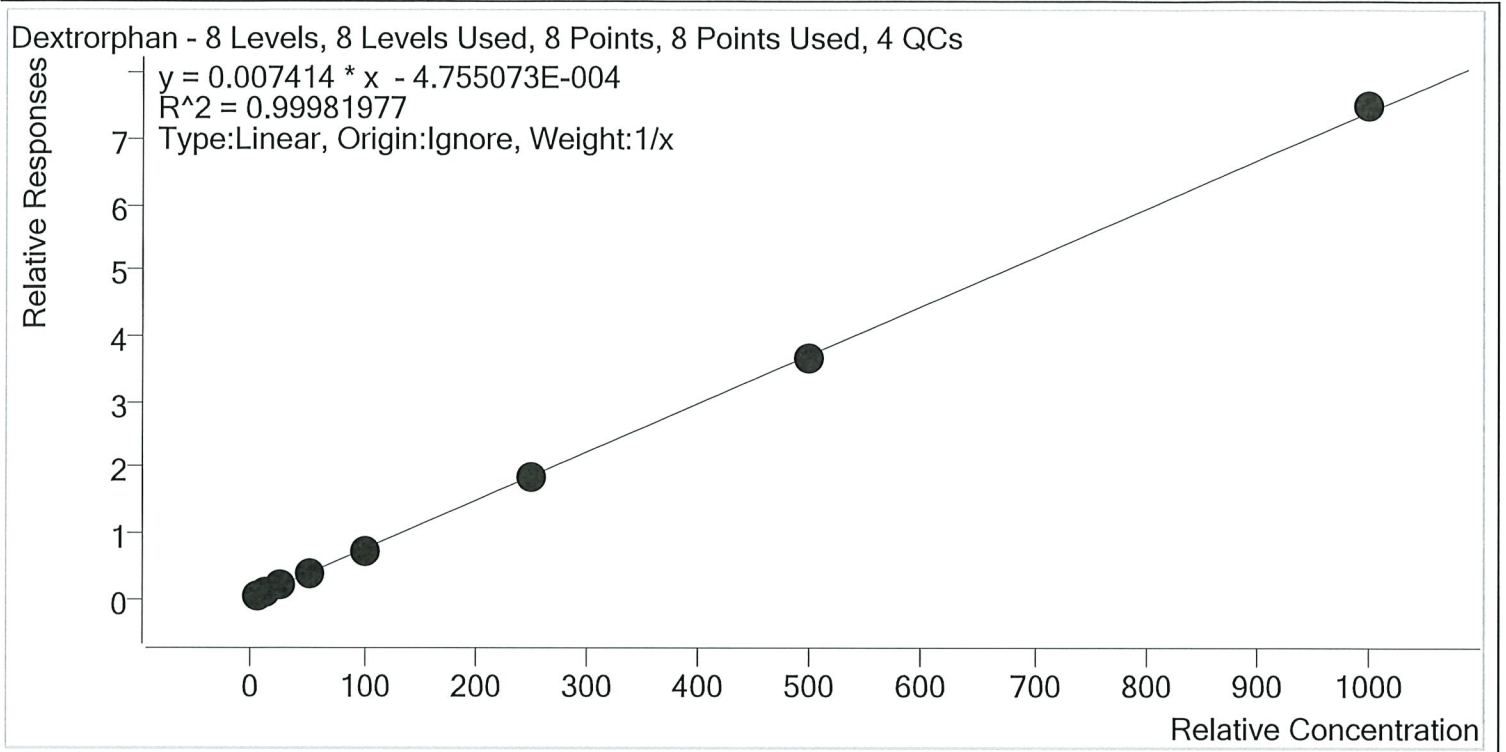
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	499.3	99.9
p1 Cal 8-1000ng	8	✓	1000.0	999.3	99.9

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3



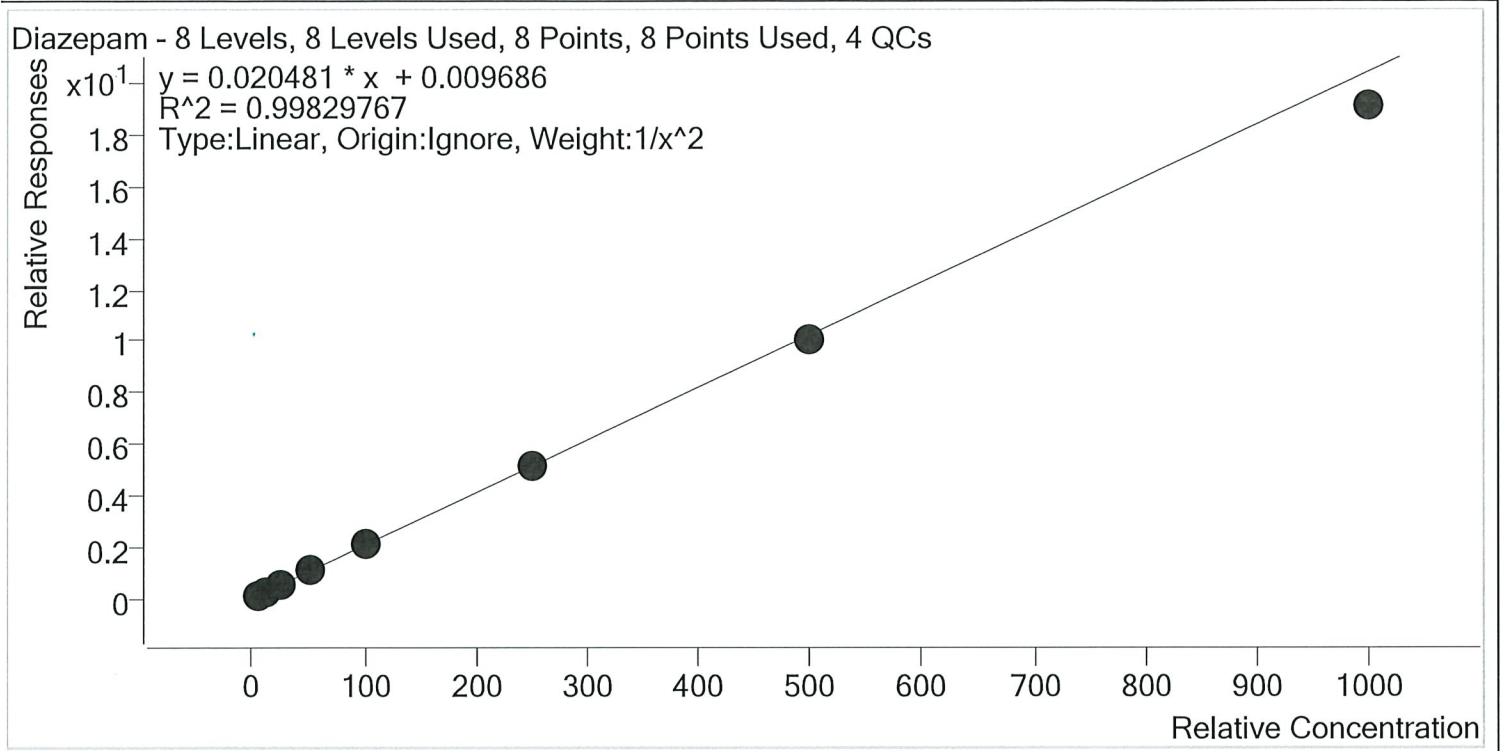
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	49.9	99.7
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



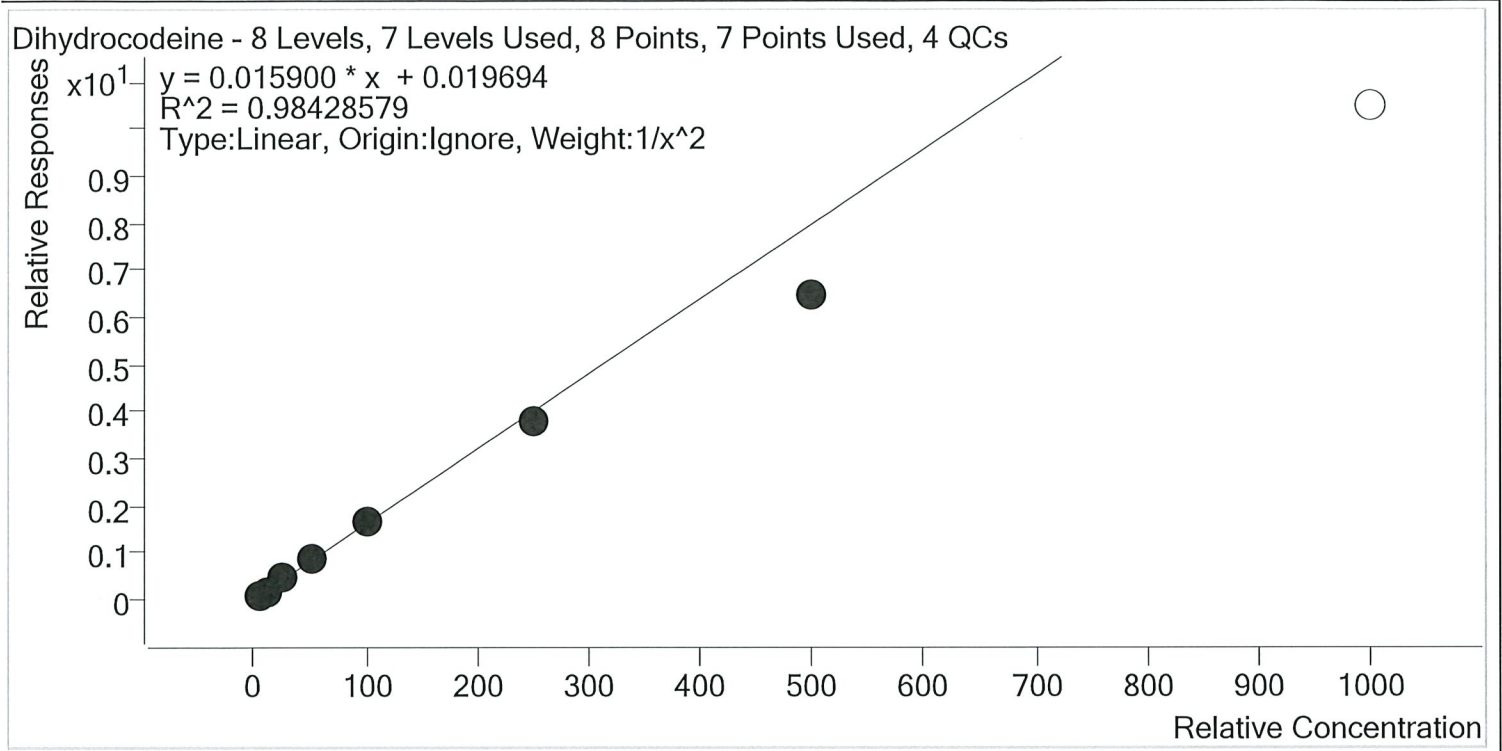
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
p1 Cal 7-500ng	7	✓	500.0	489.8	98.0
p1 Cal 8-1000ng	8	✓	1000.0	934.6	93.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	4.7	94.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	27.3	109.0
p1 Cal 4-50ng	4	✓	50.0	55.9	111.9
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	235.4	94.2
p1 Cal 7-500ng	7	✓	500.0	405.7	81.1
p1 Cal 8-1000ng	8	×	1000.0	657.8	65.8



TS

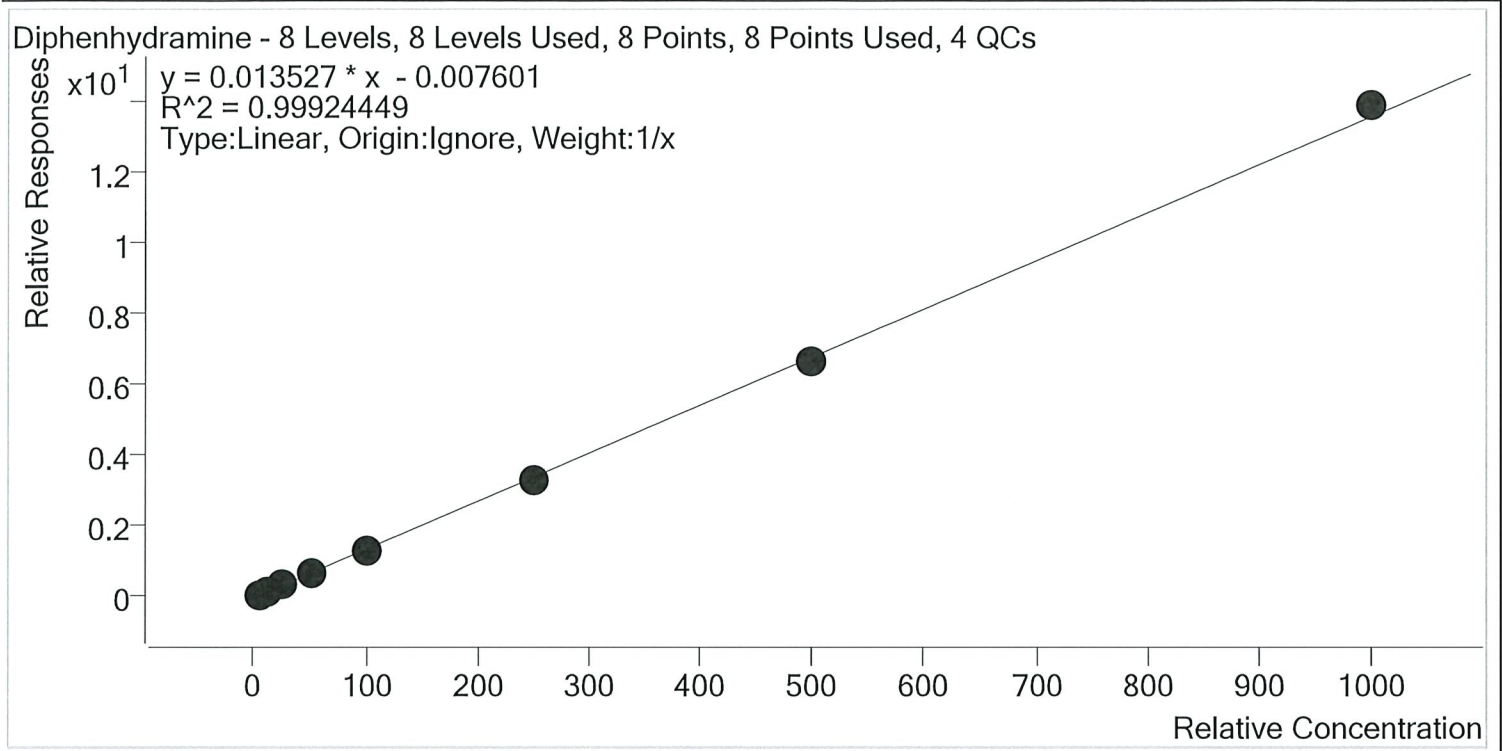
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 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	5.6	111.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	242.7	97.1
p1 Cal 7-500ng	7	✓	500.0	490.6	98.1
p1 Cal 8-1000ng	8	✓	1000.0	1023.3	102.3

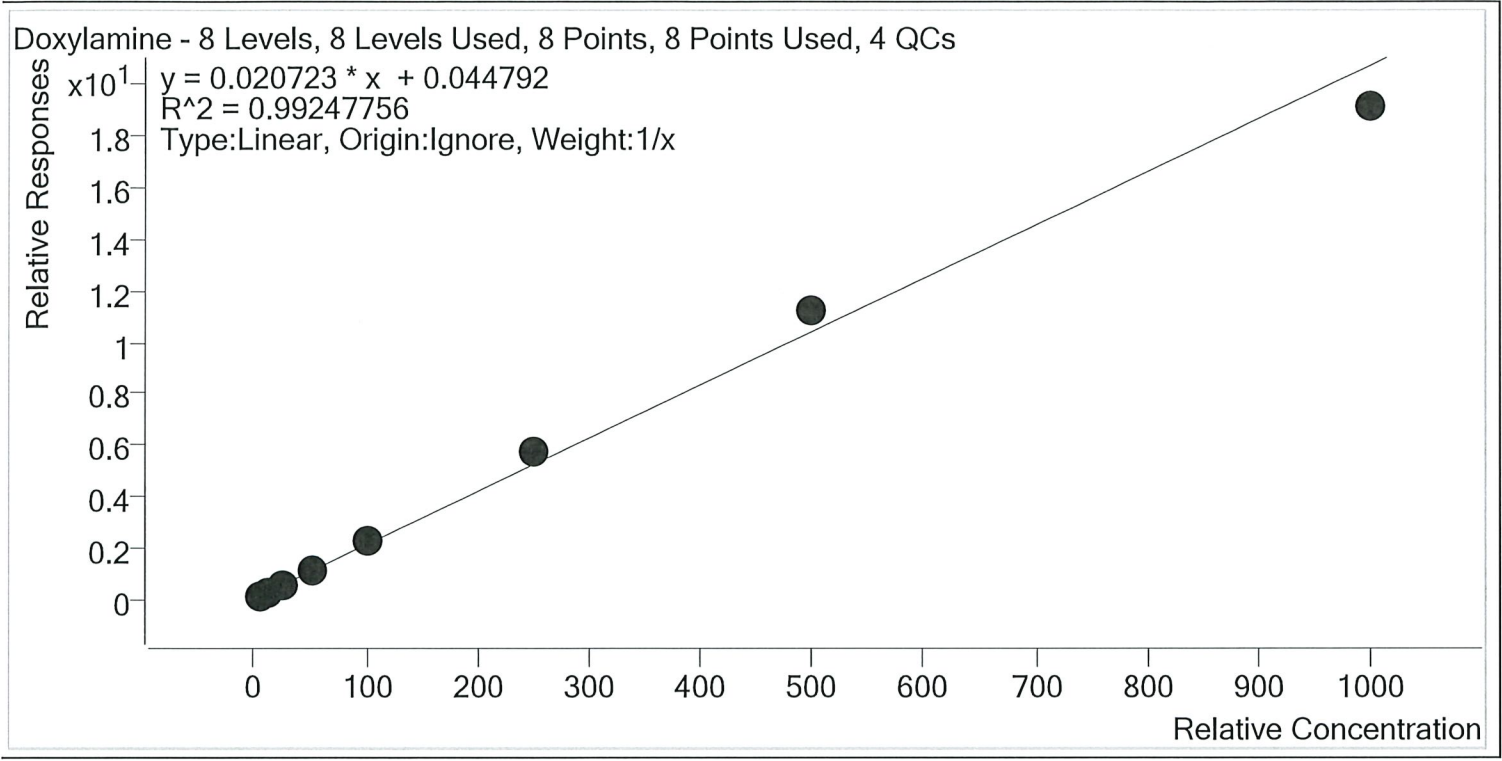


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



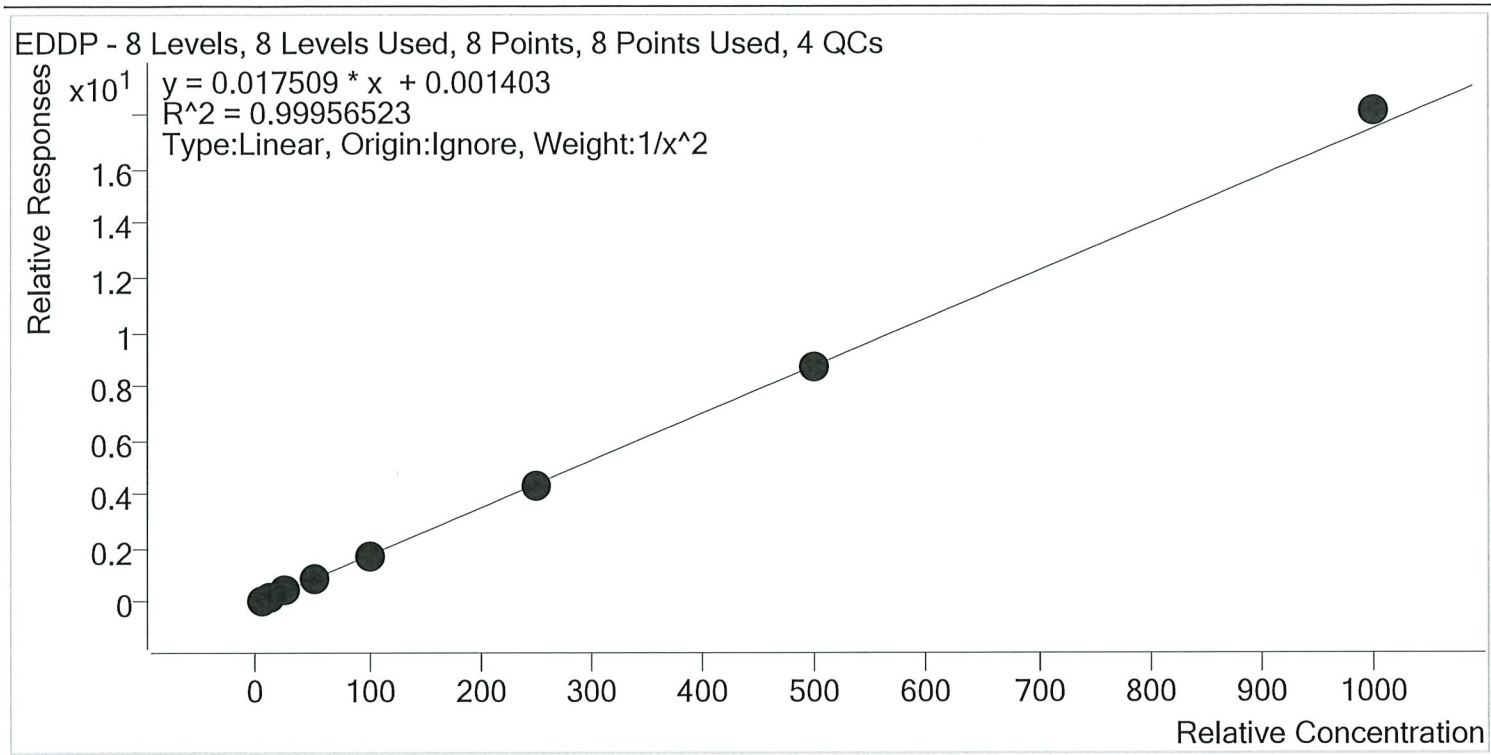
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.8	75.1
p1 Cal 2- 10ng	2	✓	10.0	9.2	92.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	54.8	109.7
p1 Cal 5-100ng	5	✓	100.0	108.5	108.5
p1 Cal 6-250ng	6	✓	250.0	276.8	110.7
p1 Cal 7-500ng	7	✓	500.0	538.4	107.7
p1 Cal 8-1000ng	8	✓	1000.0	922.5	92.3

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3



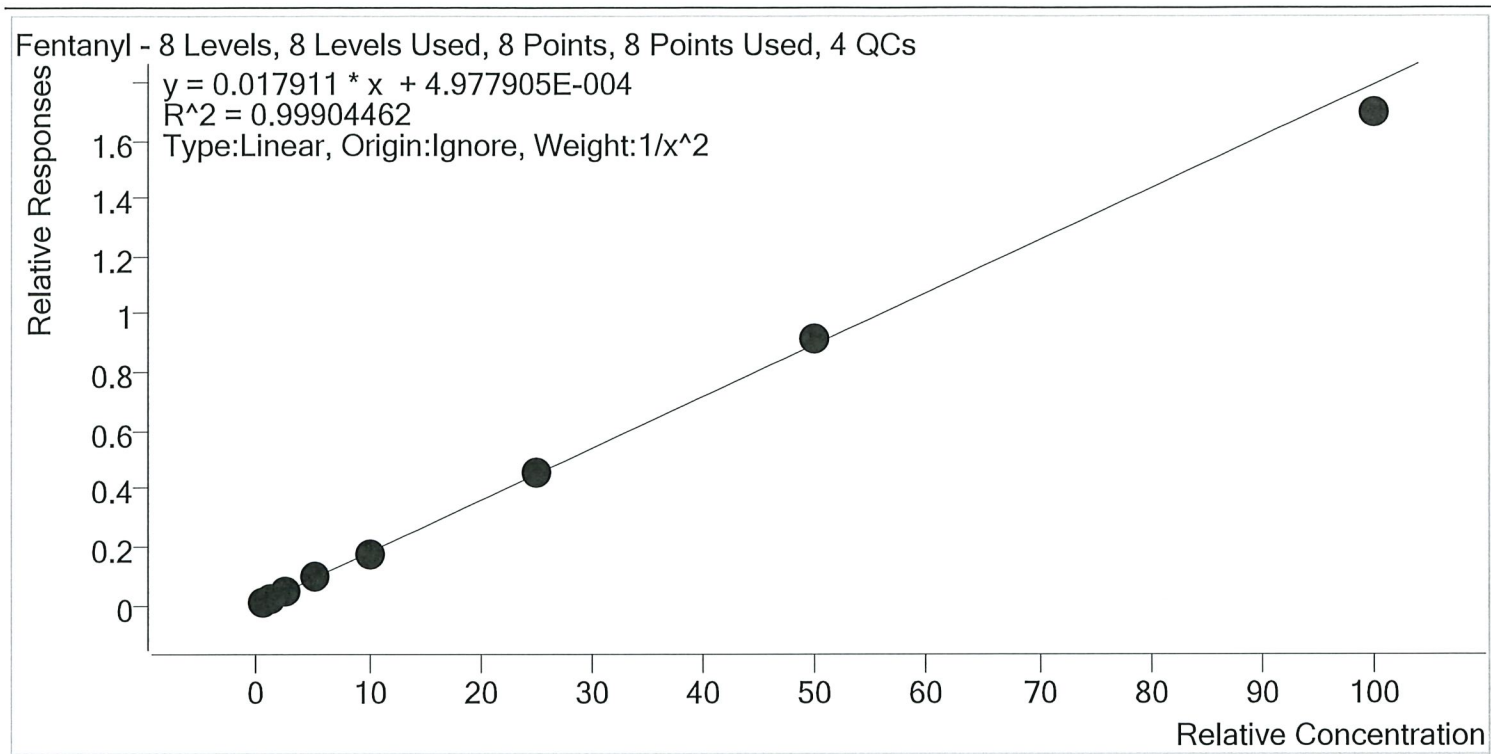
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	499.3	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1036.8	103.7

TS



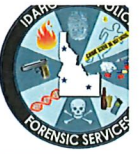
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	98.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.7
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.2
p1 Cal 4-50ng	4	✓	5.0	5.1	102.2
p1 Cal 5-100ng	5	✓	10.0	10.0	99.5
p1 Cal 6-250ng	6	✓	25.0	25.3	101.1
p1 Cal 7-500ng	7	✓	50.0	51.1	102.2
p1 Cal 8-1000ng	8	✓	100.0	94.6	94.6

TS



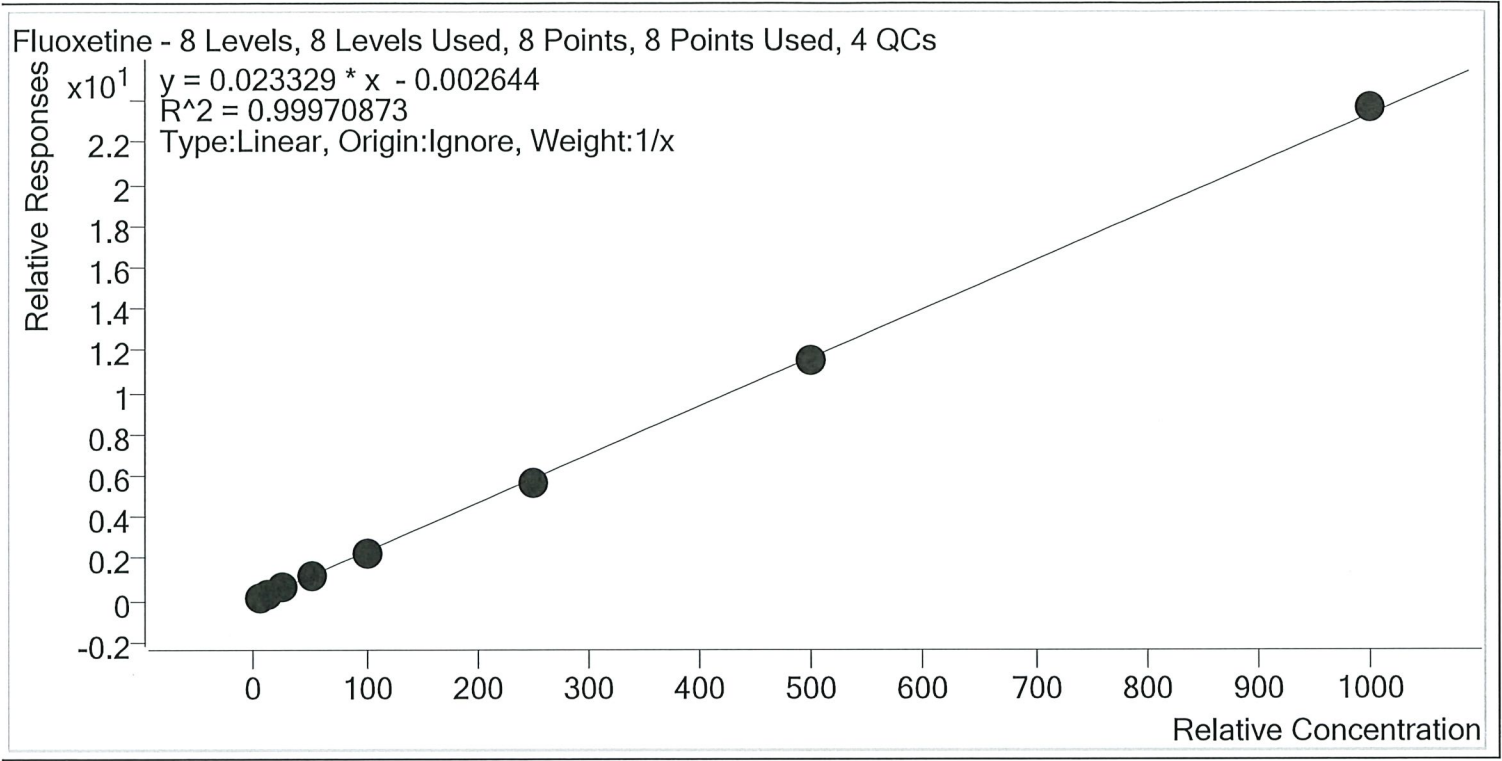
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

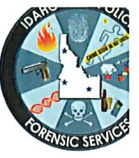
**Analyst Name** ISP\Datastor

**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	496.4	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1013.5	101.3

TS



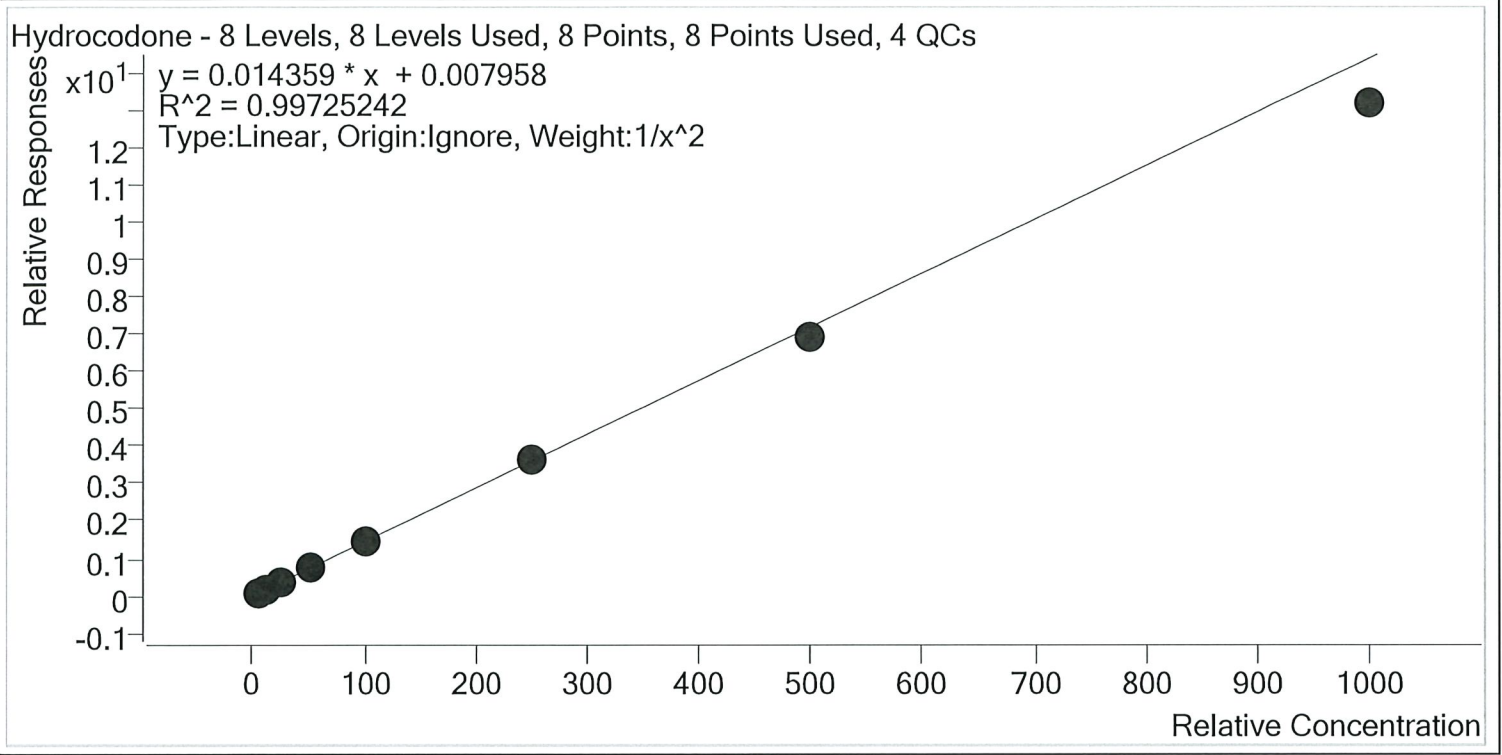
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 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	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.8
p1 Cal 4-50ng	4	✓	50.0	52.2	104.4
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	484.0	96.8
p1 Cal 8-1000ng	8	✓	1000.0	915.9	91.6



TS

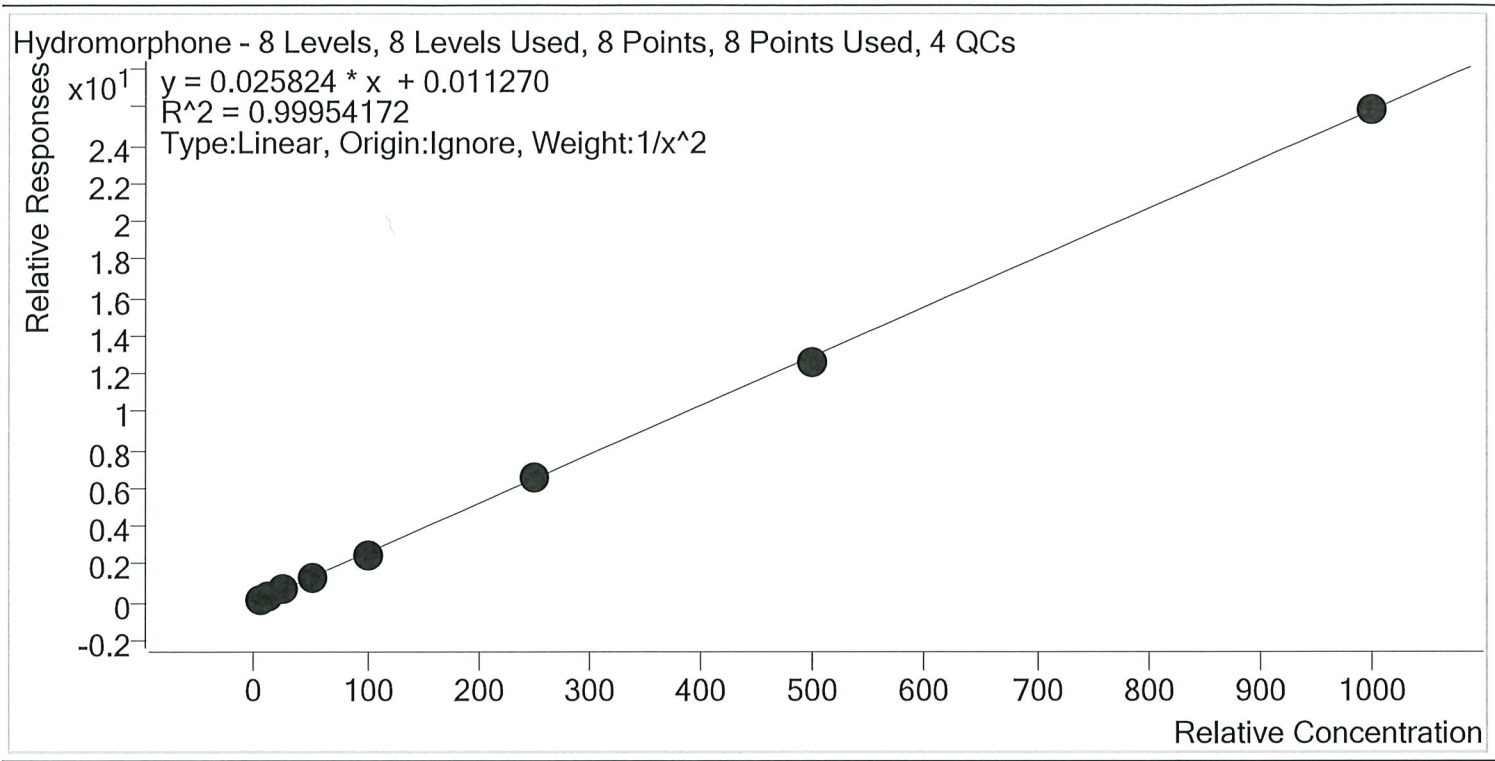
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk\lst 3891 TS\QuantResults\MDQ P1 TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 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	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	489.1	97.8
p1 Cal 8-1000ng	8	✓	1000.0	1000.3	100.0

TS



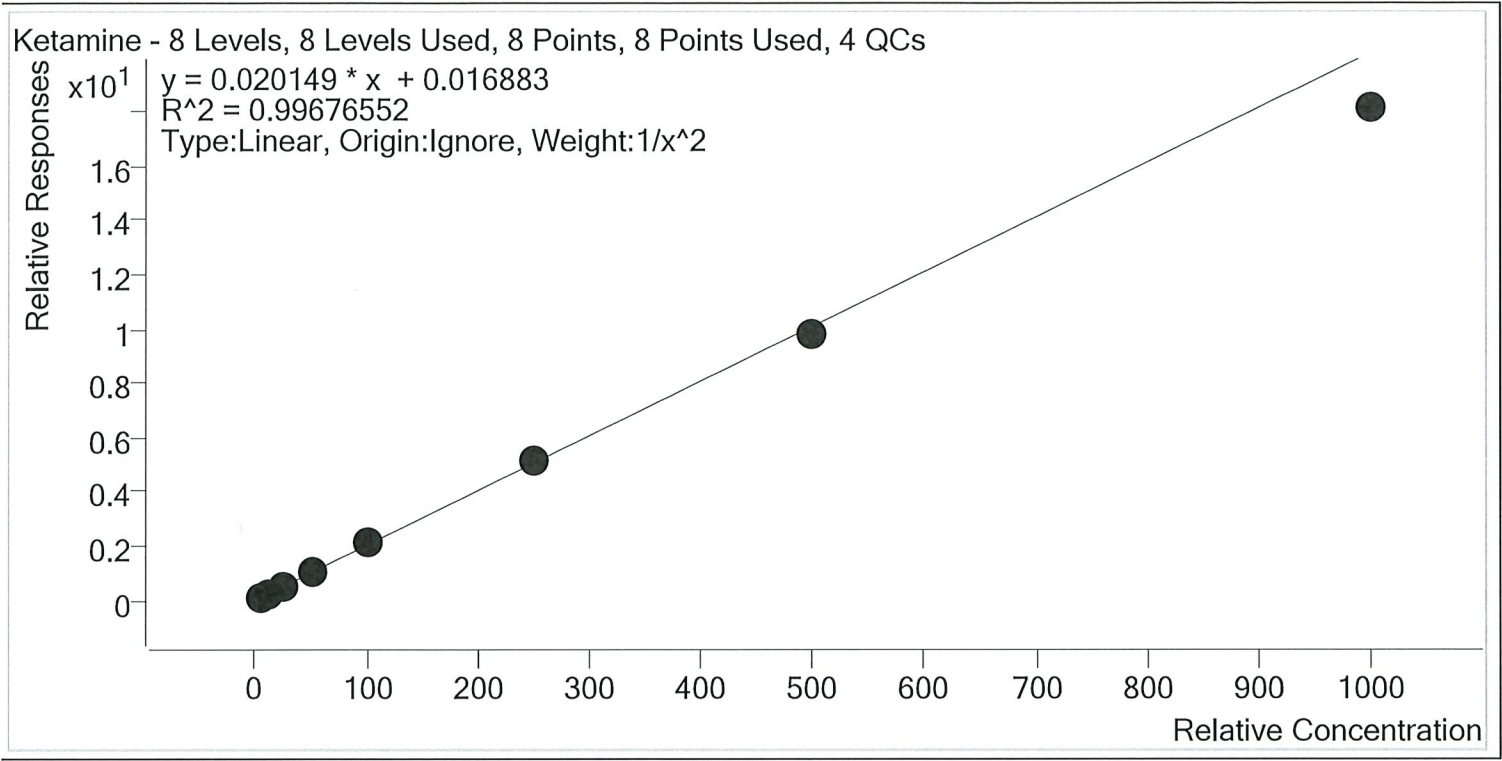
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

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



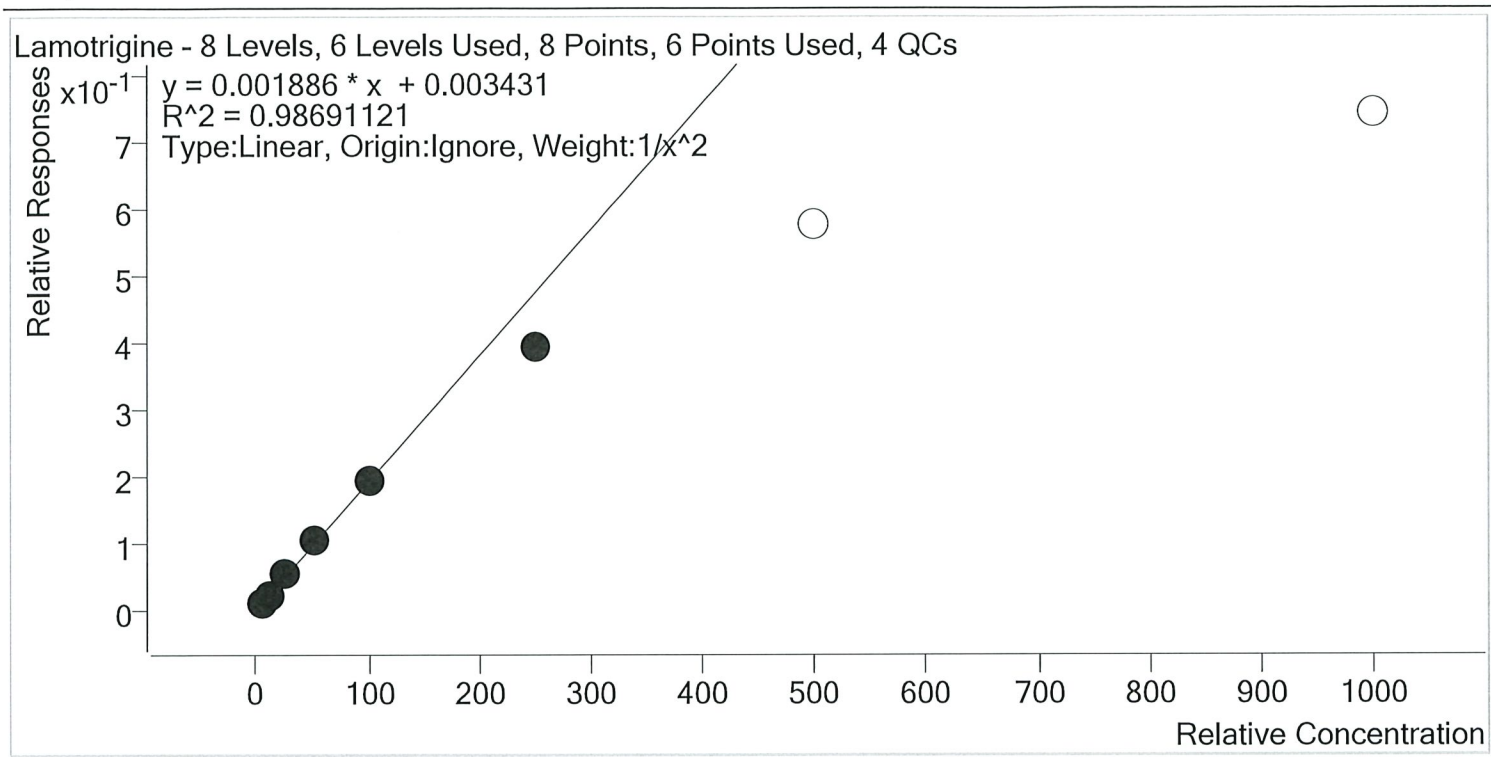
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	52.4	104.9
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	257.5	103.0
p1 Cal 7-500ng	7	✓	500.0	483.1	96.6
p1 Cal 8-1000ng	8	✓	1000.0	899.1	89.9

TS



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

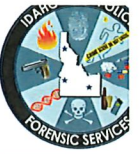
**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.2
p1 Cal 4-50ng	4	✓	50.0	53.7	107.4
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	208.7	83.5
p1 Cal 7-500ng	7	×	500.0	304.9	61.0
p1 Cal 8-1000ng	8	×	1000.0	392.1	39.2

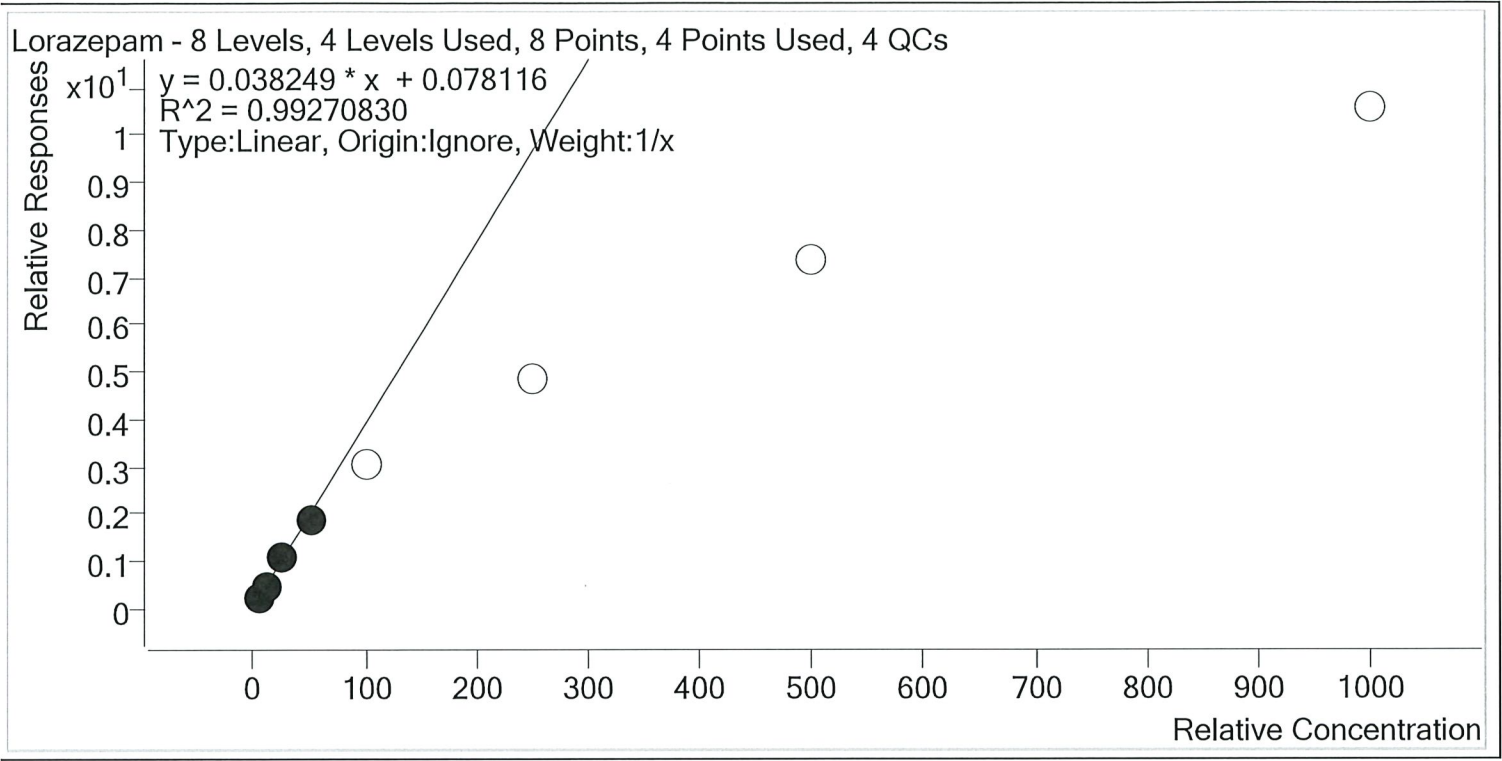


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.5
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.2
p1 Cal 4-50ng	4	✓	50.0	47.9	95.7
p1 Cal 5-100ng	5	×	100.0	78.0	78.0
p1 Cal 6-250ng	6	×	250.0	125.9	50.4
p1 Cal 7-500ng	7	×	500.0	190.7	38.1
p1 Cal 8-1000ng	8	×	1000.0	274.0	27.4

\*Compound not evaluated. -TS

TS



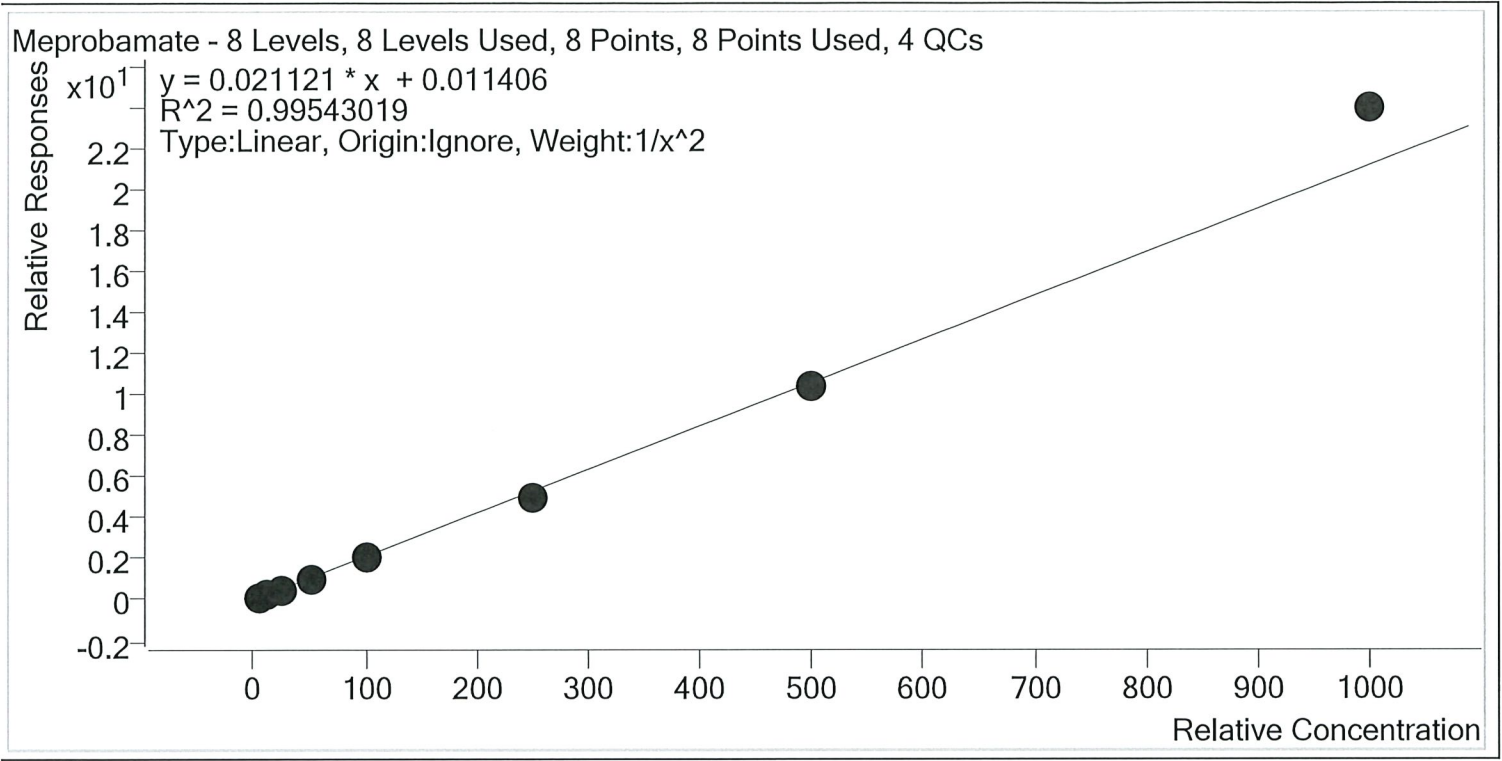
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

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



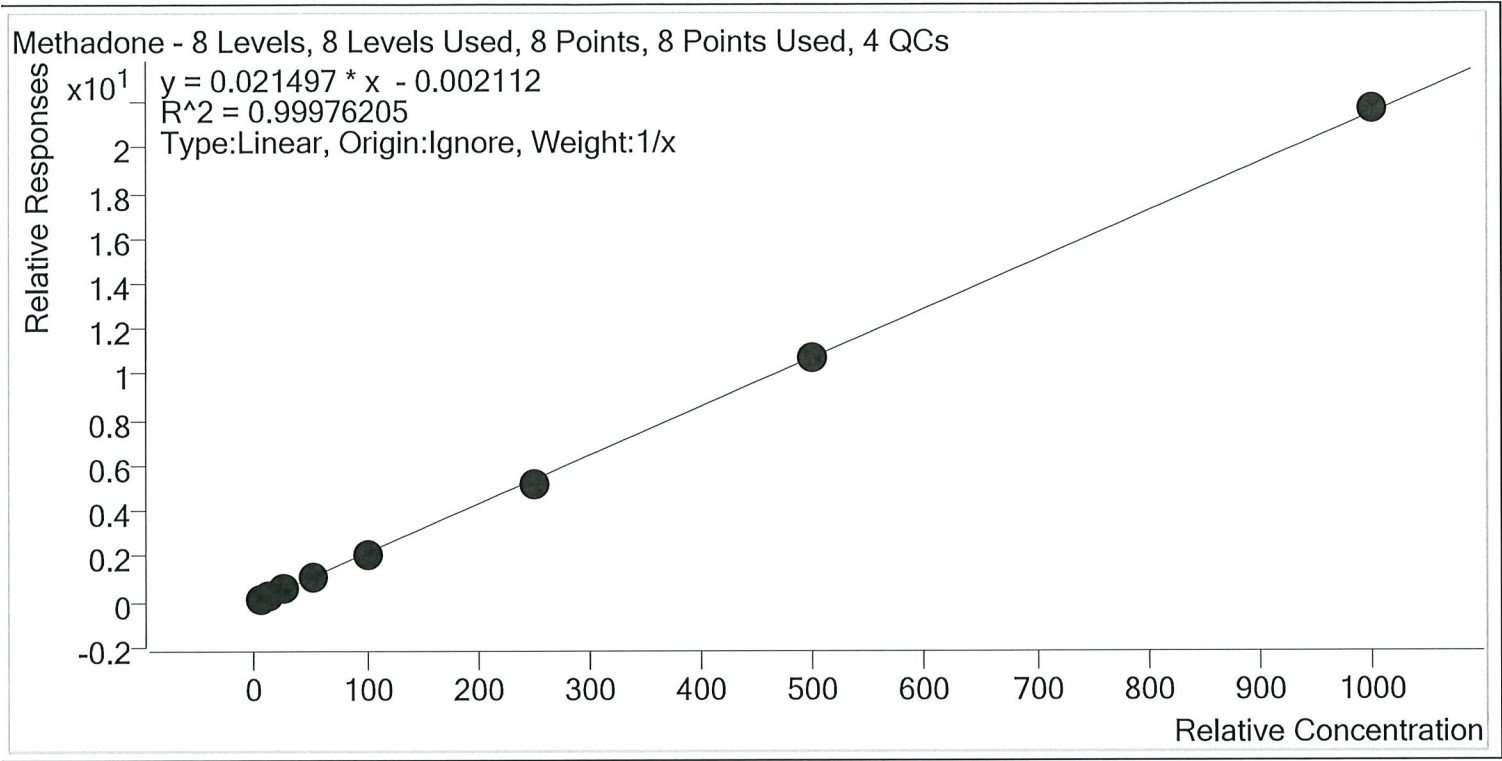
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.4
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.0
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.4	100.9
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	236.7	94.7
p1 Cal 7-500ng	7	✓	500.0	487.3	97.5
p1 Cal 8-1000ng	8	✓	1000.0	1131.5	113.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9



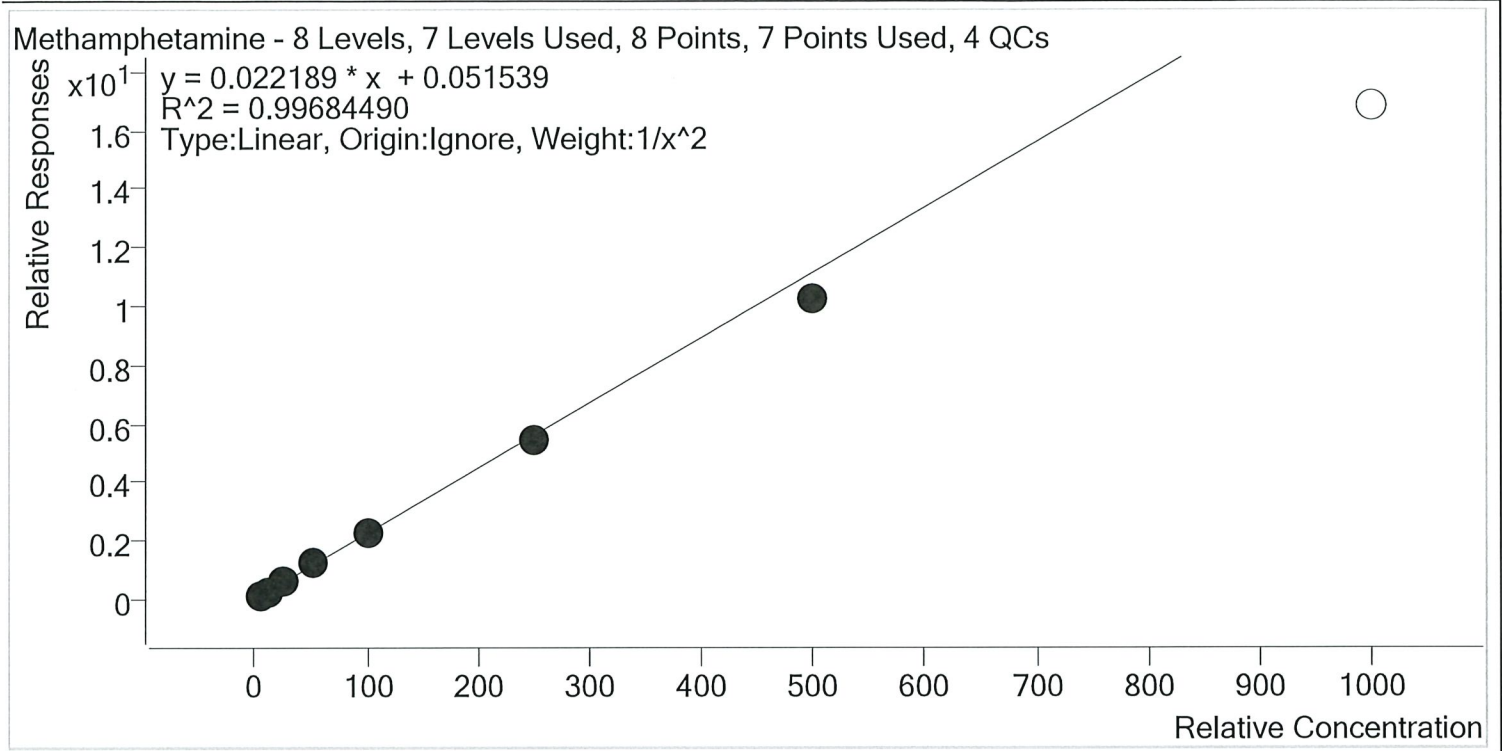
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	242.7	97.1
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1008.3	100.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11



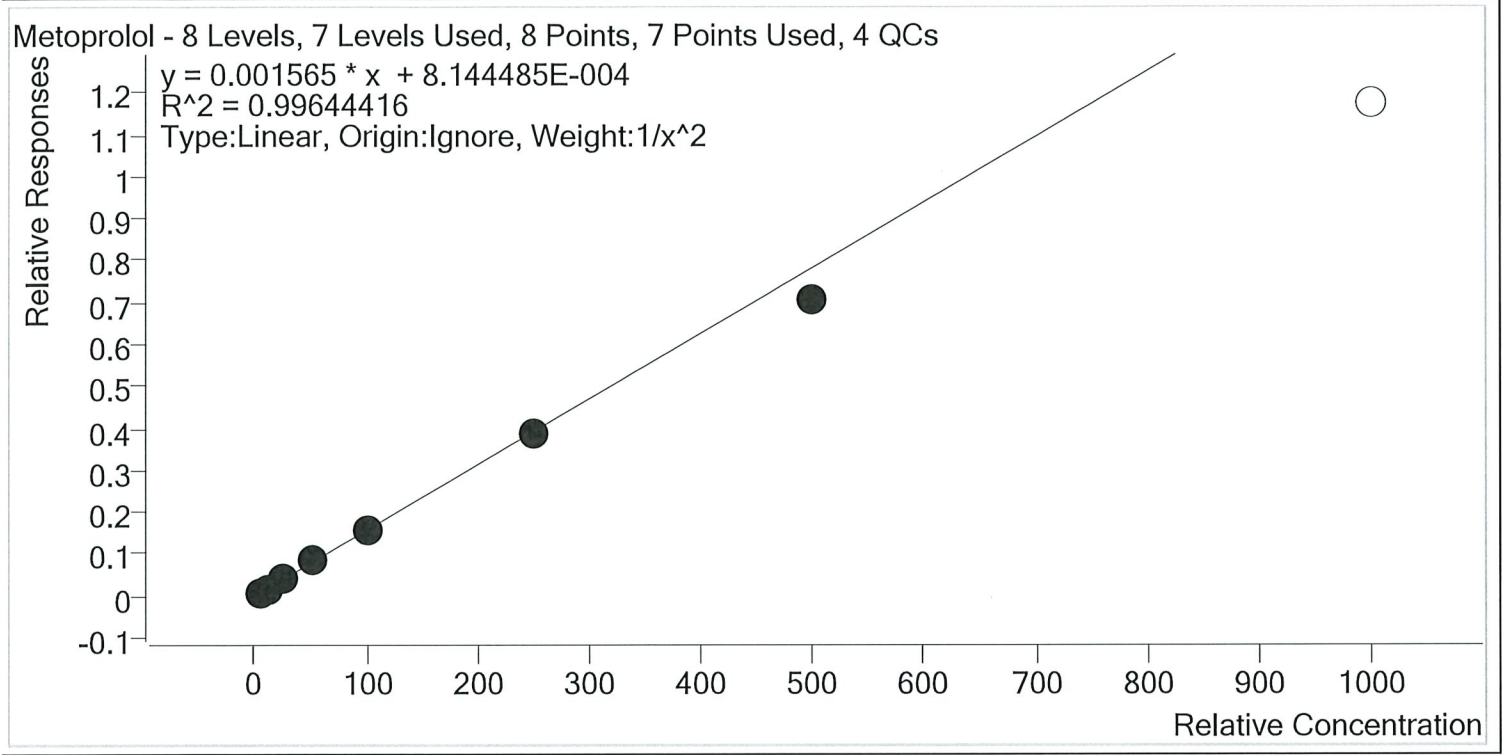
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	244.2	97.7
p1 Cal 7-500ng	7	✓	500.0	458.7	91.7
p1 Cal 8-1000ng	8	×	1000.0	755.0	75.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3



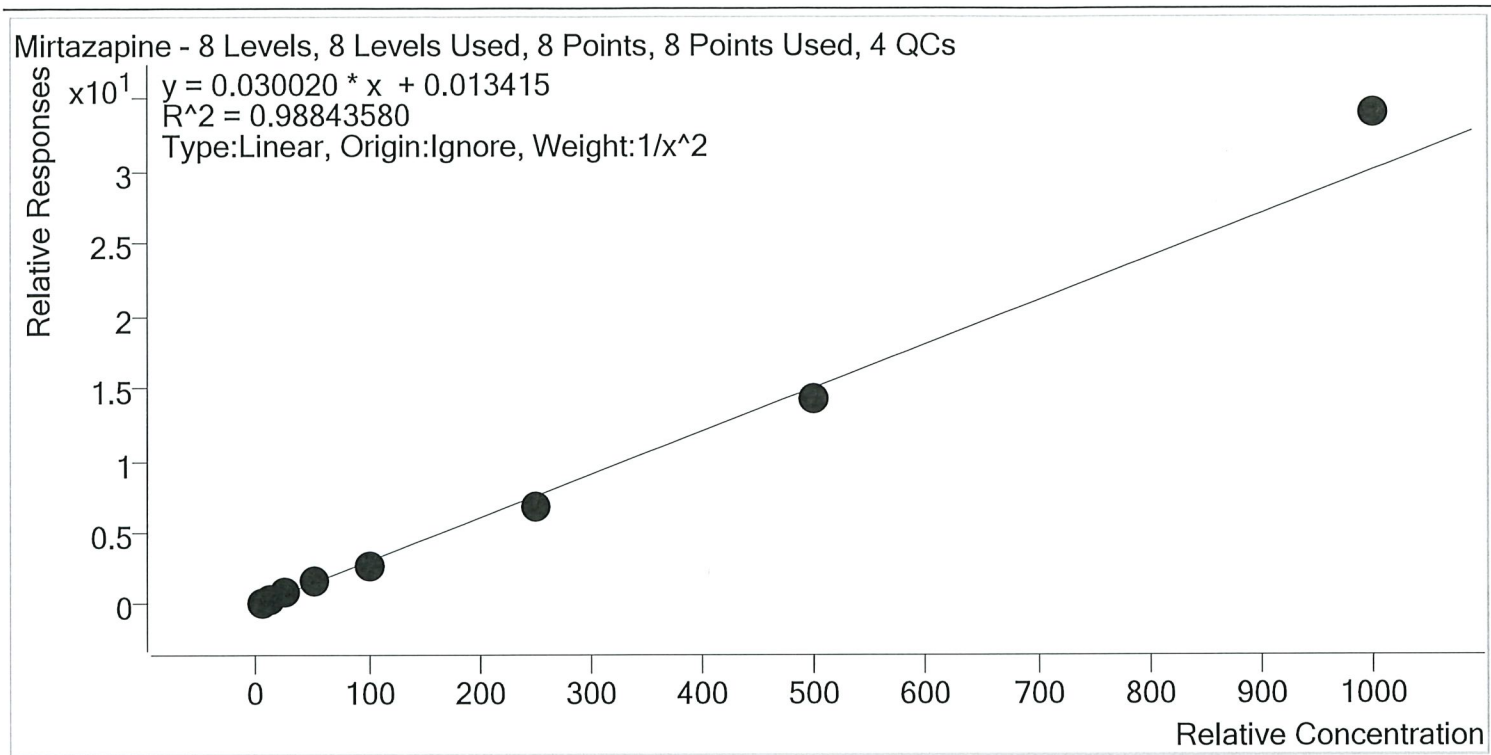
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.8
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.7
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	450.4	90.1
p1 Cal 8-1000ng	8	×	1000.0	750.4	75.0

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8



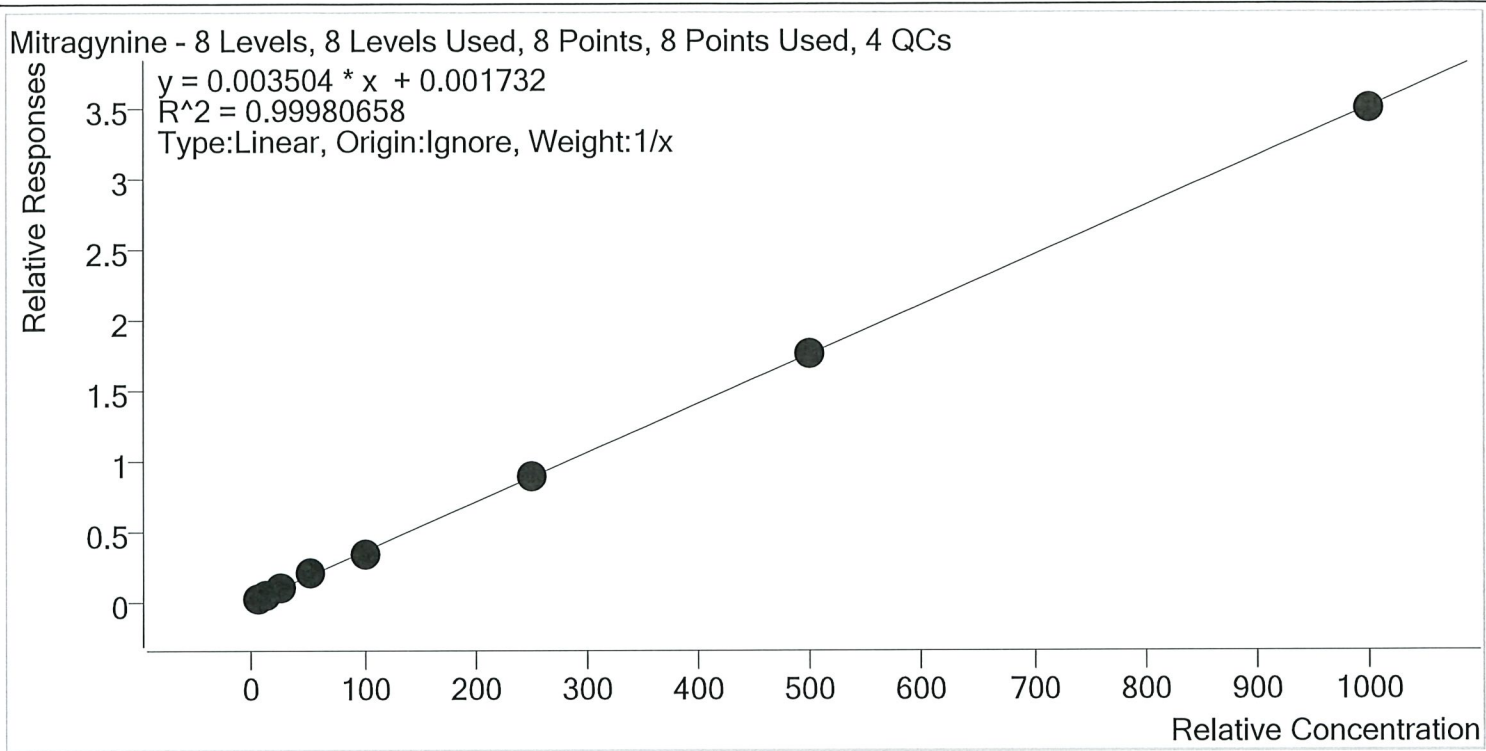
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	26.7	107.0
p1 Cal 4-50ng	4	✓	50.0	54.4	108.9
p1 Cal 5-100ng	5	✓	100.0	85.6	85.6
p1 Cal 6-250ng	6	✓	250.0	228.2	91.3
p1 Cal 7-500ng	7	✓	500.0	473.9	94.8
p1 Cal 8-1000ng	8	✓	1000.0	1131.0	113.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9



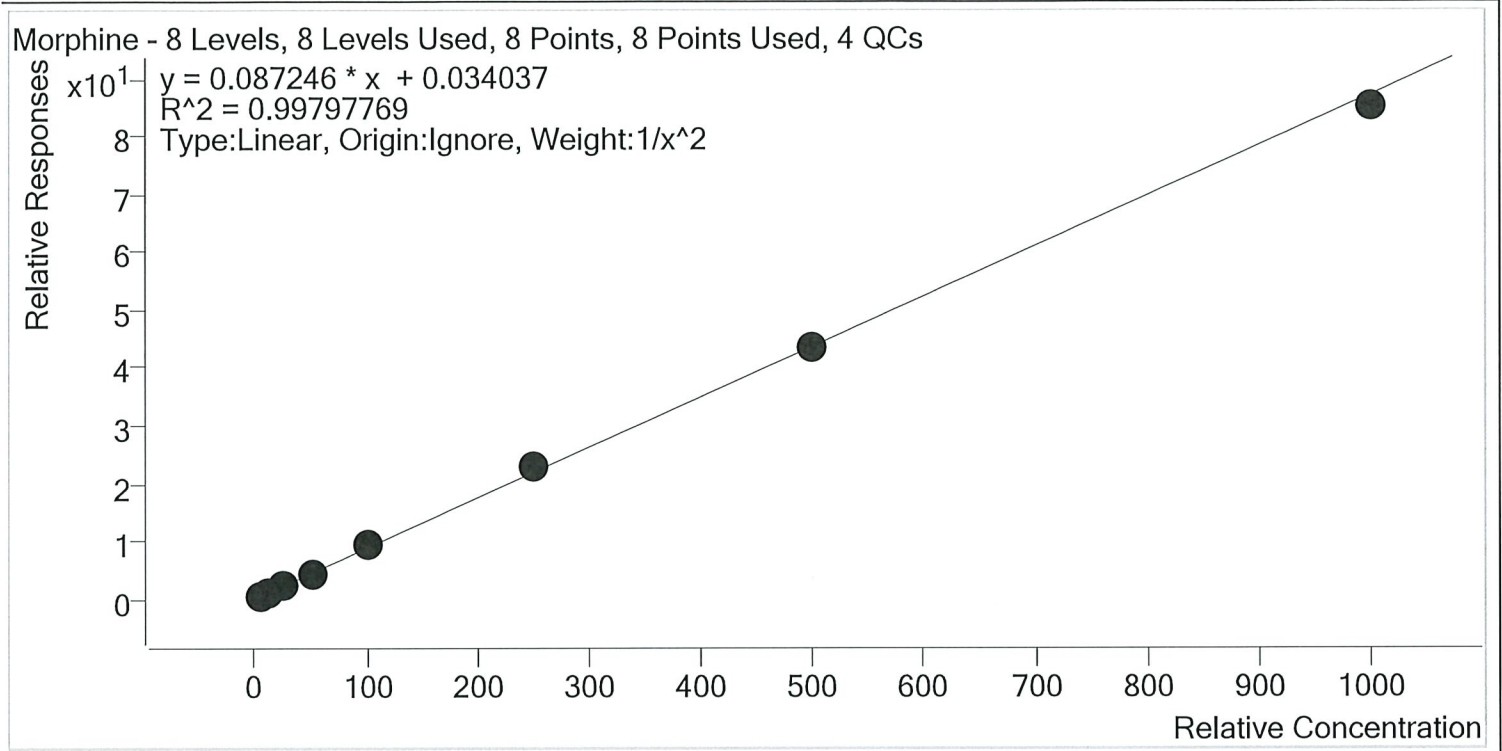
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	251.6	100.6
p1 Cal 7-500ng	7	✓	500.0	502.6	100.5
p1 Cal 8-1000ng	8	✓	1000.0	996.5	99.6

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	5.2	103.1
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.5
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	49.6	99.1
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	259.9	104.0
p1 Cal 7-500ng	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng	8	✓	1000.0	976.3	97.6



TS



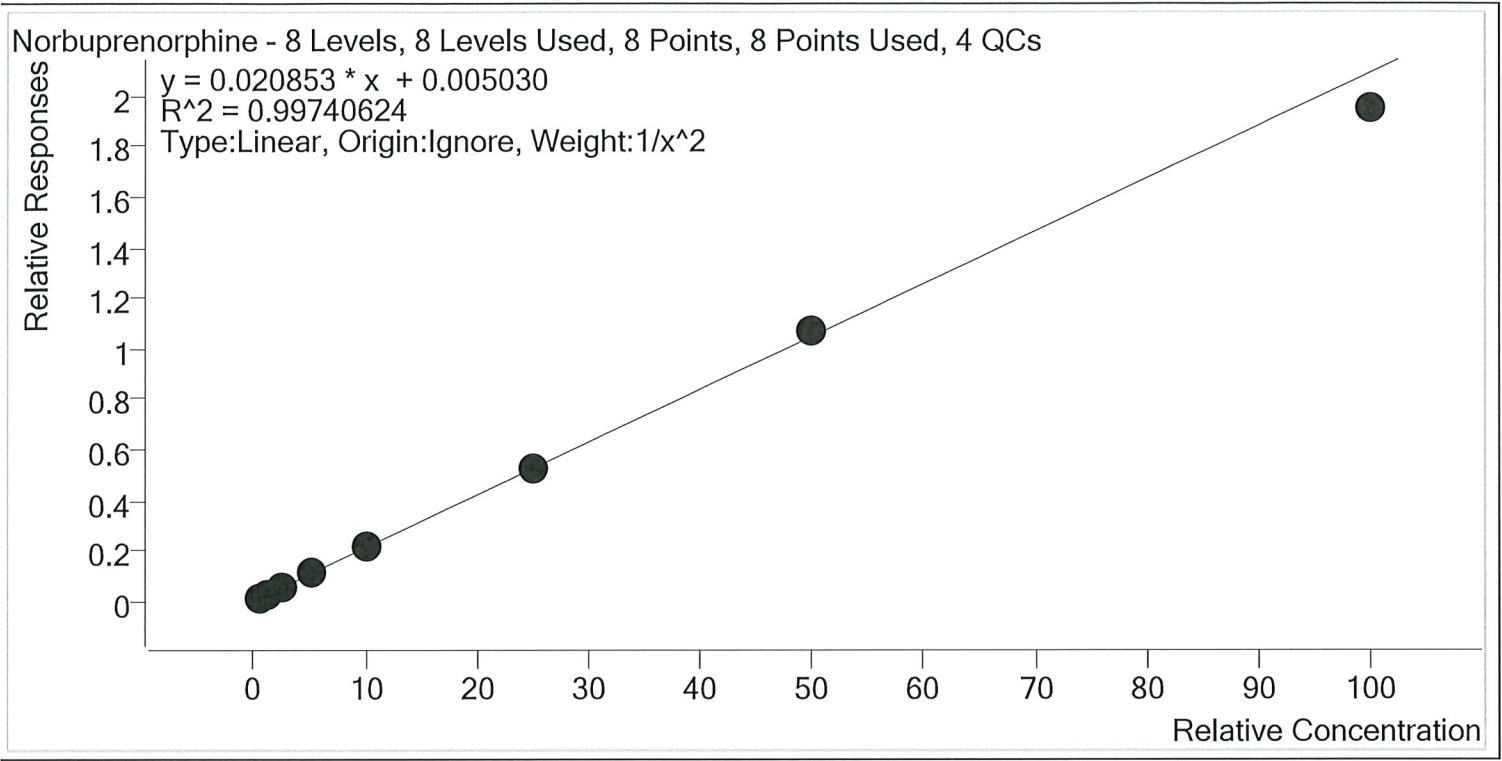
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

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



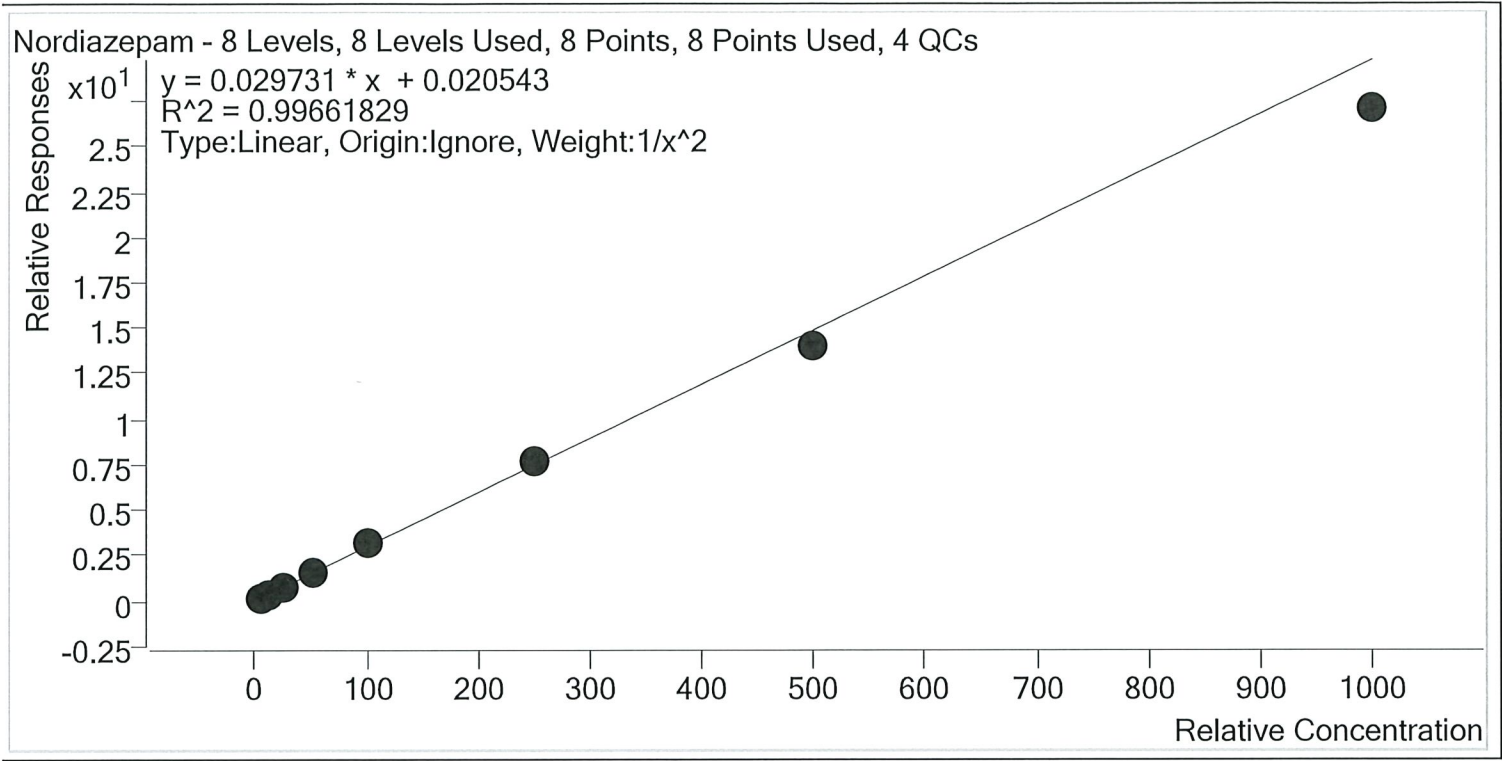
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	95.5
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.2
p1 Cal 4-50ng	4	✓	5.0	5.3	106.4
p1 Cal 5-100ng	5	✓	10.0	10.4	103.8
p1 Cal 6-250ng	6	✓	25.0	25.0	99.9
p1 Cal 7-500ng	7	✓	50.0	51.0	102.0
p1 Cal 8-1000ng	8	✓	100.0	93.2	93.2

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	53.0	105.9
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	473.4	94.7
p1 Cal 8-1000ng	8	✓	1000.0	909.8	91.0

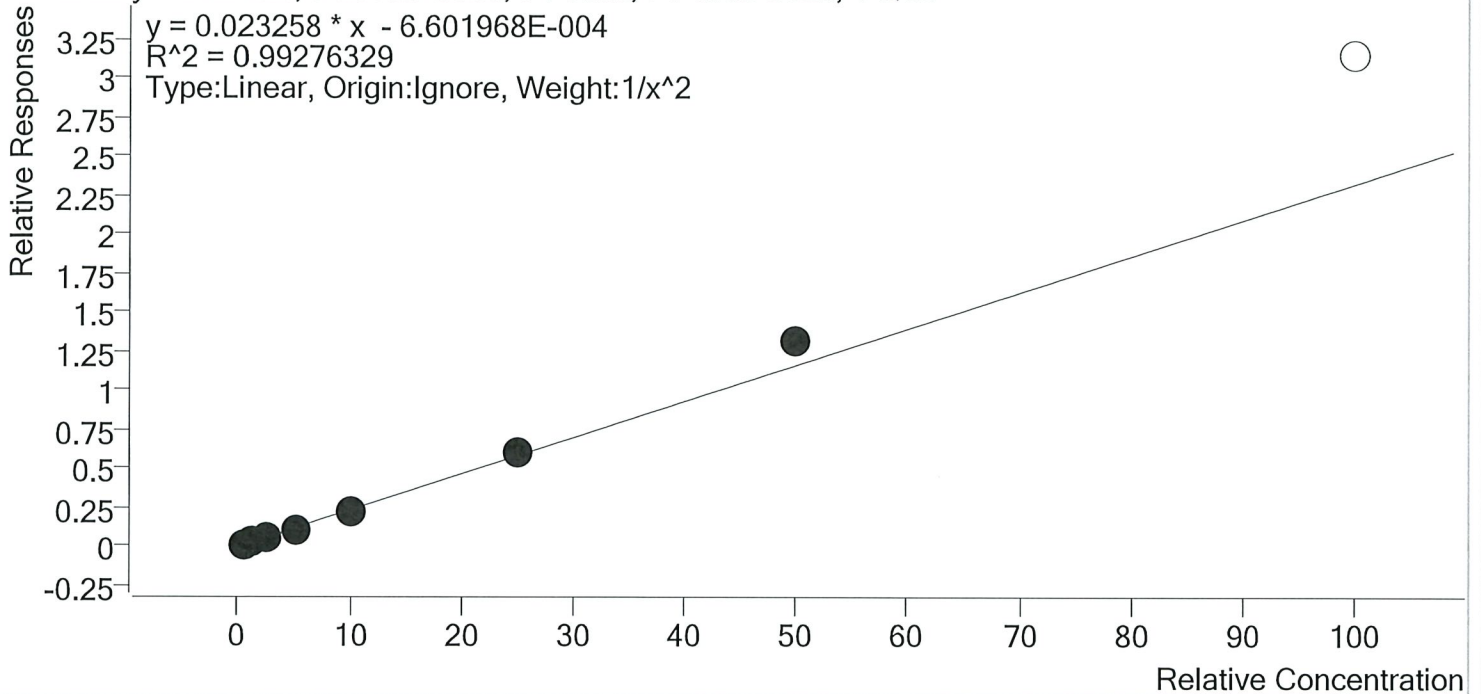
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

Norfentanyl - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

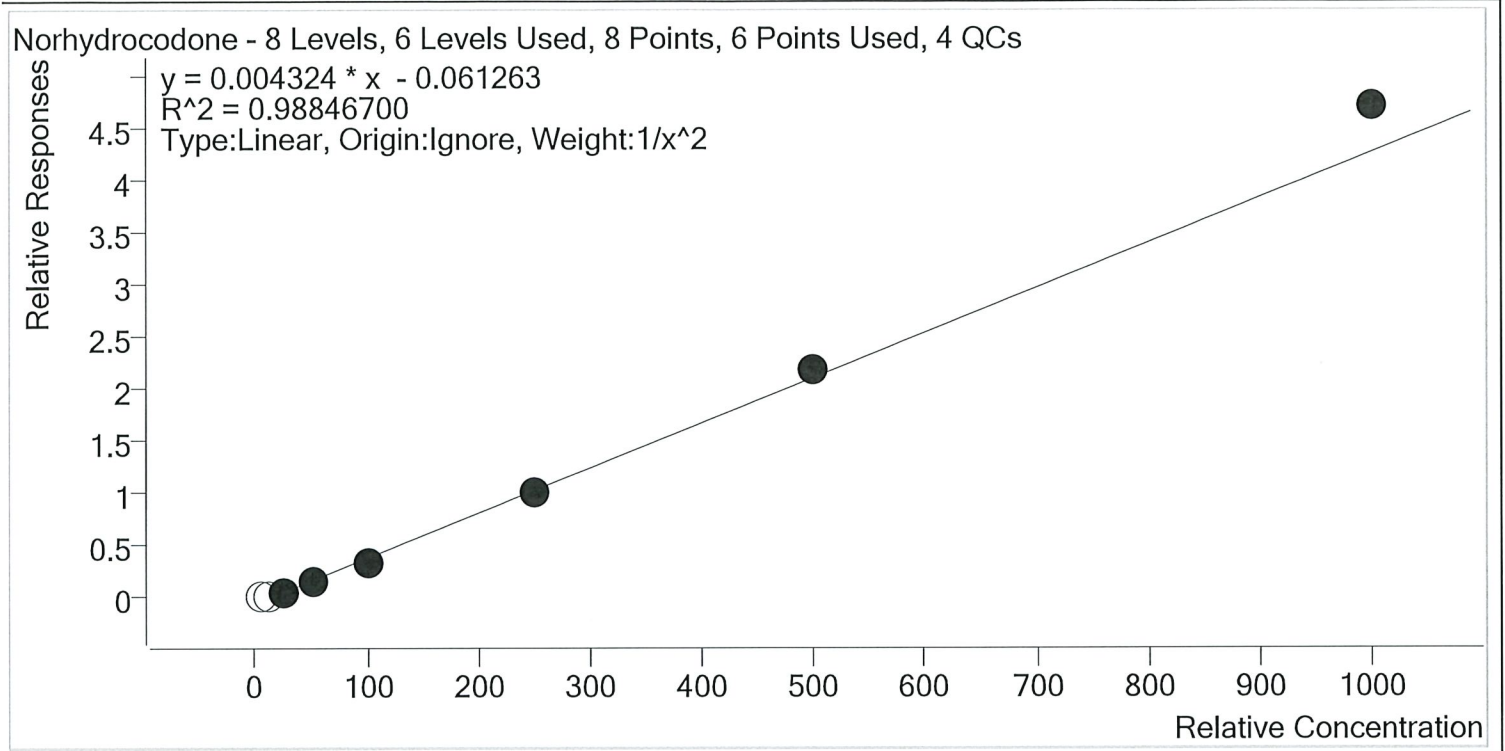


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.3
p1 Cal 3 -25ng	3	✓	2.5	2.3	92.0
p1 Cal 4-50ng	4	✓	5.0	4.8	95.1
p1 Cal 5-100ng	5	✓	10.0	9.6	95.6
p1 Cal 6-250ng	6	✓	25.0	25.8	103.3
p1 Cal 7-500ng	7	✓	50.0	56.6	113.2
p1 Cal 8-1000ng	8	×	100.0	135.5	135.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3



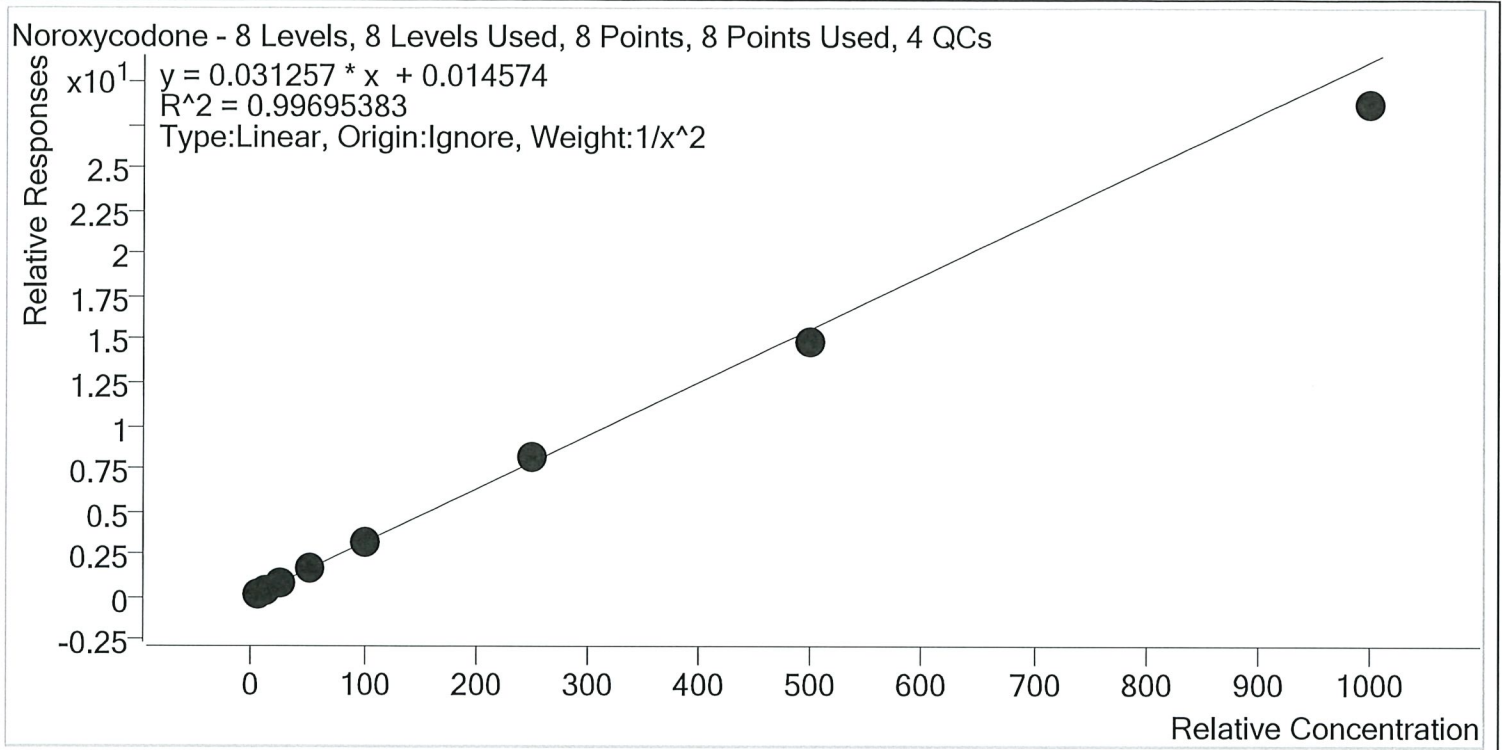
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	16.4	328.9
p1 Cal 2- 10ng	2	×	10.0	18.3	183.0
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.8
p1 Cal 4-50ng	4	✓	50.0	45.8	91.5
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	246.5	98.6
p1 Cal 7-500ng	7	✓	500.0	521.5	104.3
p1 Cal 8-1000ng	8	✓	1000.0	1102.4	110.2

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



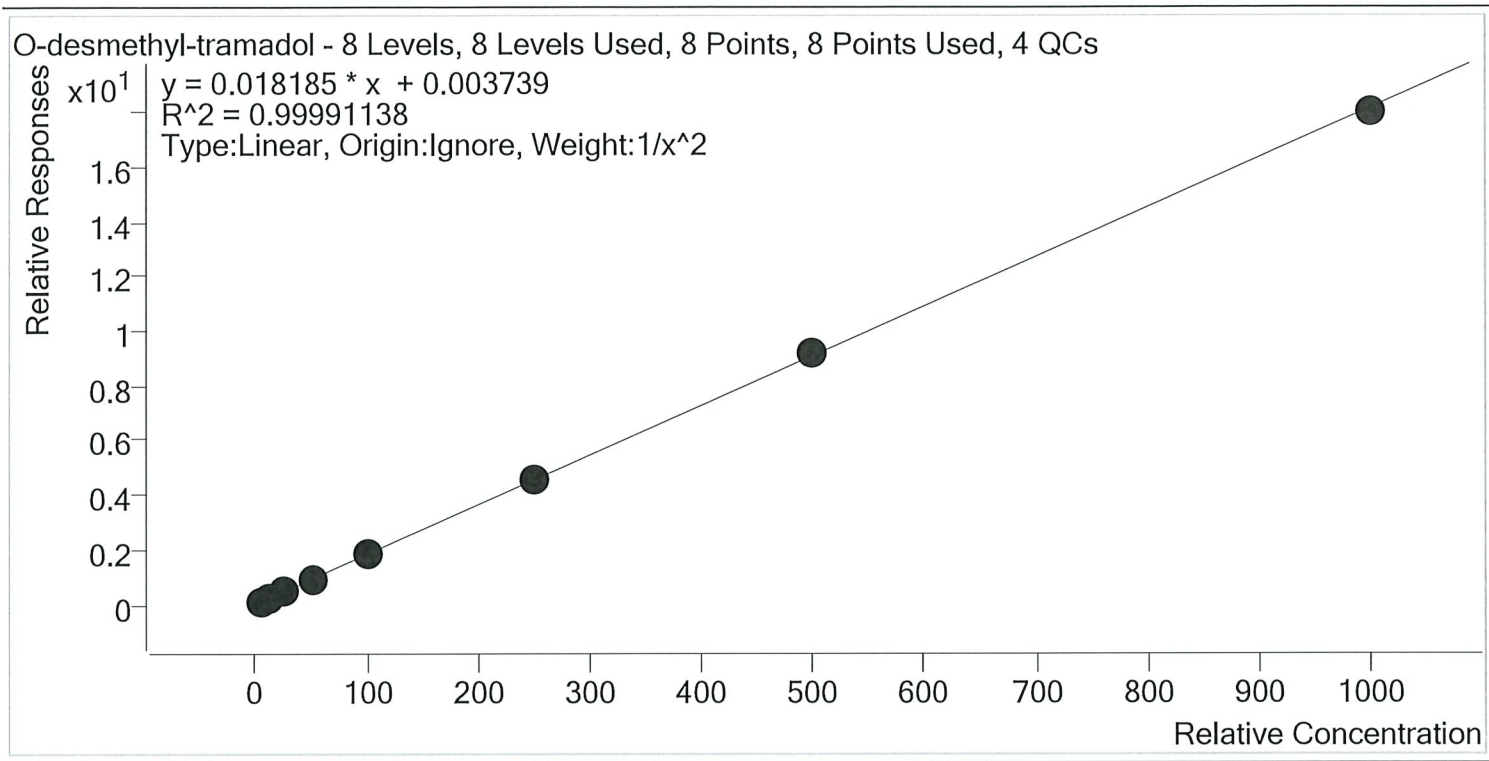
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.8
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	✓	250.0	258.0	103.2
p1 Cal 7-500ng	7	✓	500.0	473.7	94.7
p1 Cal 8-1000ng	8	✓	1000.0	919.2	91.9

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



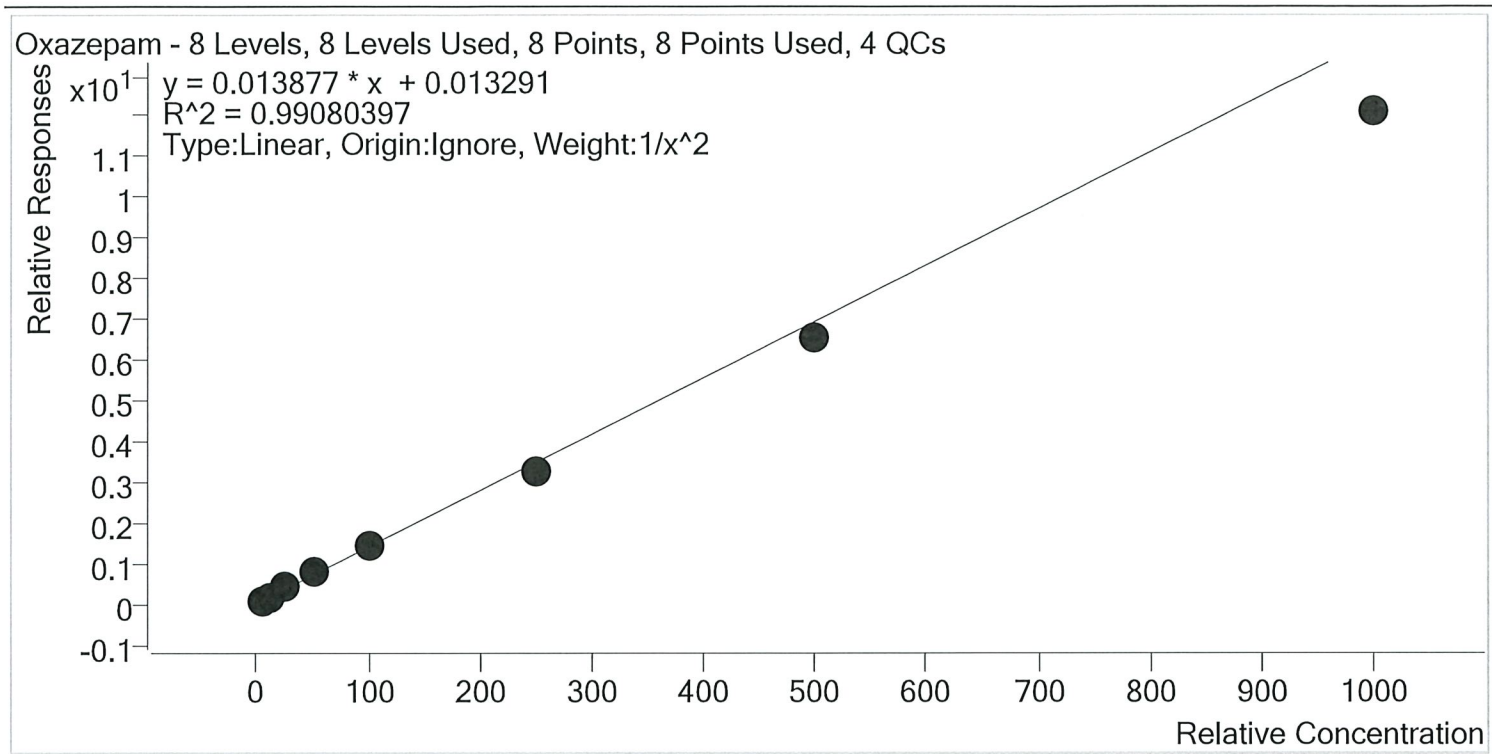
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	503.0	100.6
p1 Cal 8-1000ng	8	✓	1000.0	991.2	99.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datator  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5



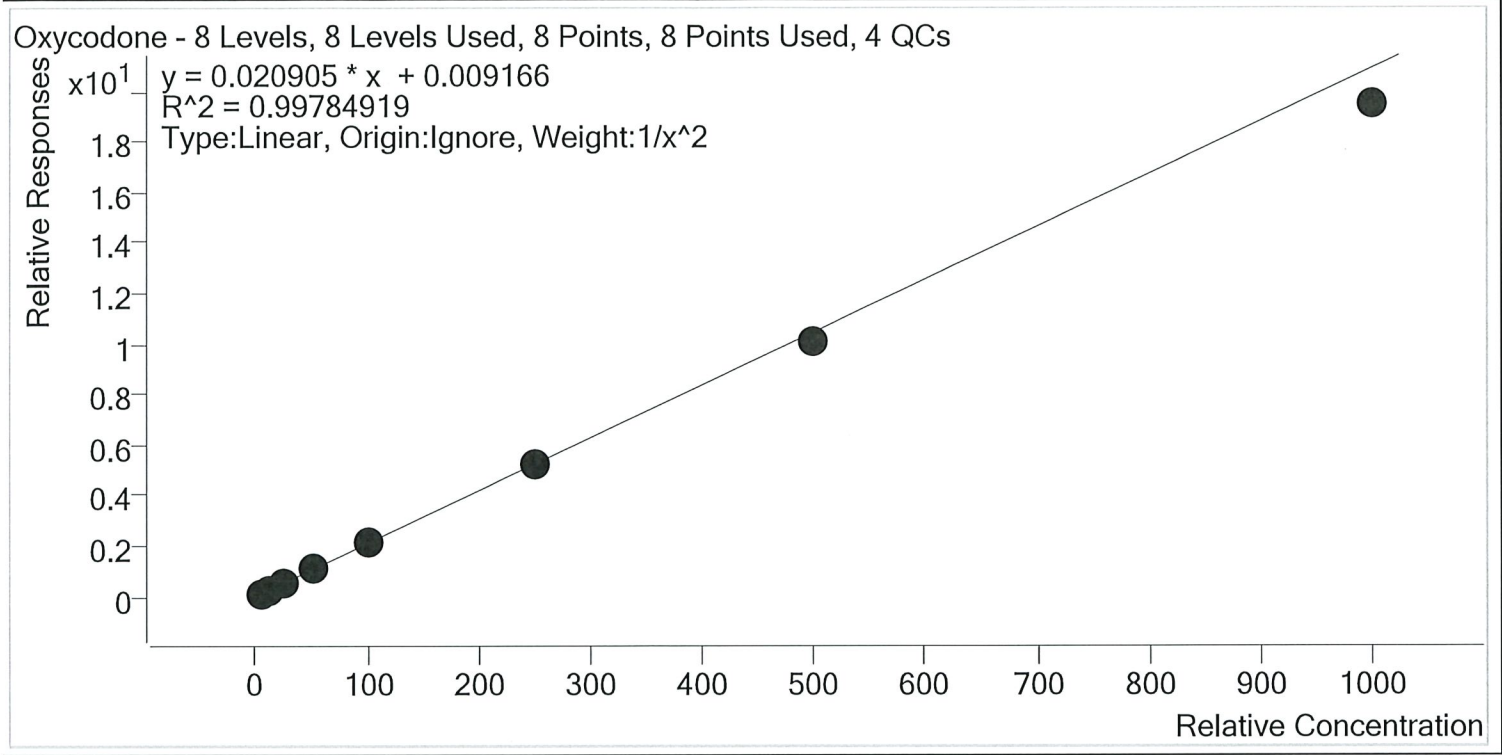
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.4
p1 Cal 4-50ng	4	✓	50.0	56.0	111.9
p1 Cal 5-100ng	5	✓	100.0	105.7	105.7
p1 Cal 6-250ng	6	✓	250.0	237.4	95.0
p1 Cal 7-500ng	7	✓	500.0	468.7	93.7
p1 Cal 8-1000ng	8	✓	1000.0	872.3	87.2

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	249.1	99.6
p1 Cal 7-500ng	7	✓	500.0	484.1	96.8
p1 Cal 8-1000ng	8	✓	1000.0	931.2	93.1



TS



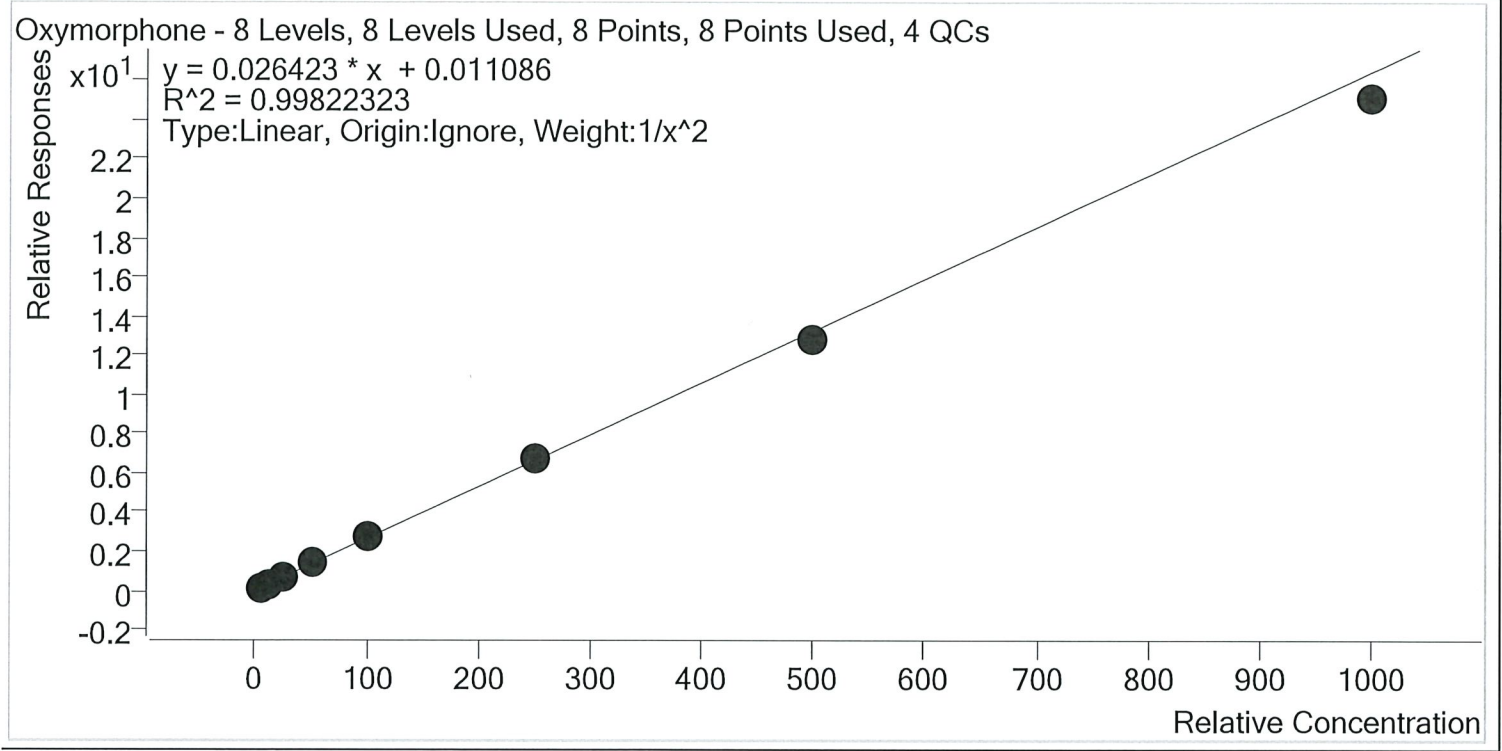
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

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



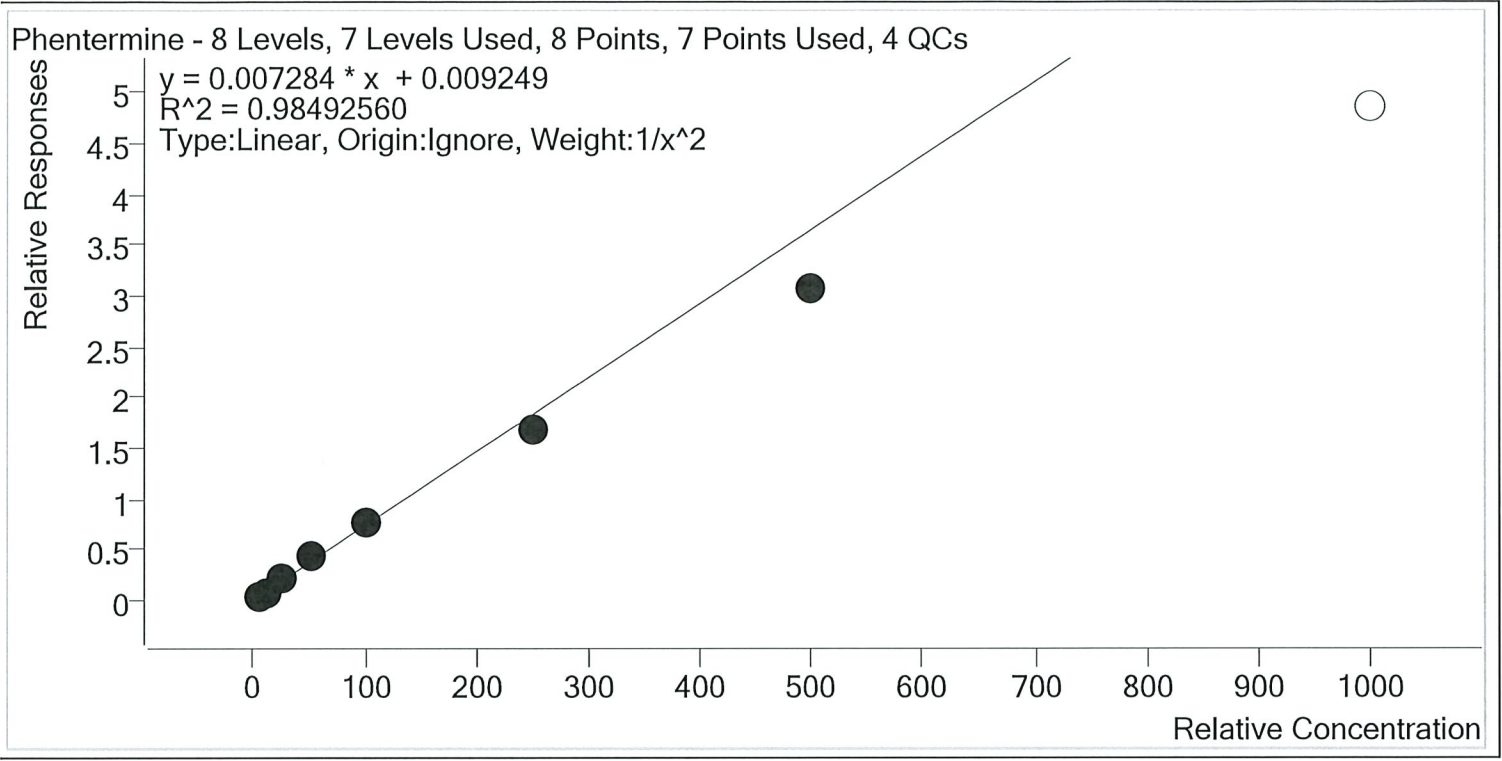
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	53.3	106.6
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	481.4	96.3
p1 Cal 8-1000ng	8	✓	1000.0	948.3	94.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk\lst 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 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	94.0
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.9
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.7
p1 Cal 4-50ng	4	✓	50.0	57.2	114.4
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	228.8	91.5
p1 Cal 7-500ng	7	✓	500.0	422.0	84.4
p1 Cal 8-1000ng	8	×	1000.0	665.7	66.6

TS



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

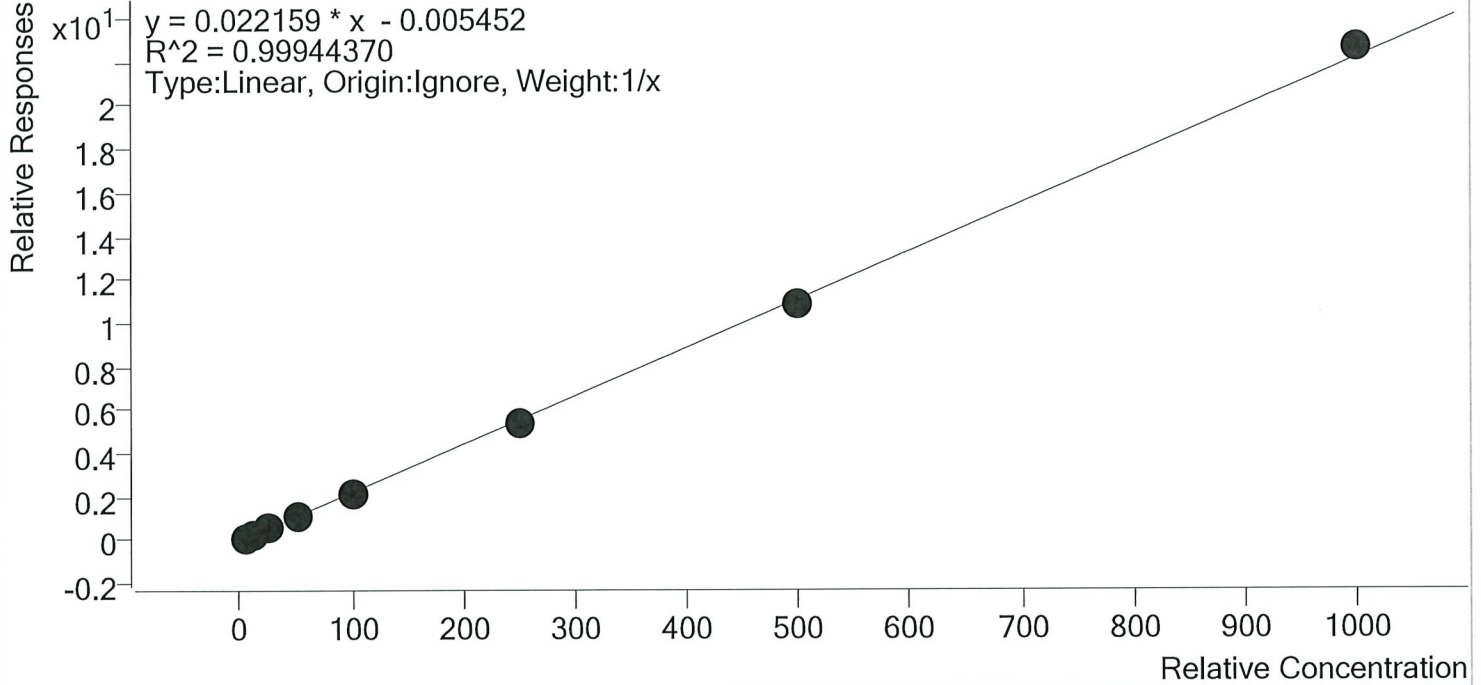
**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin

**Last Cal. Update** 12/19/2019 10:25 AM

**Analyst Name** ISP\Datastor

**Analyte** Promethazine **Internal Standard** Promethazine-D3

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



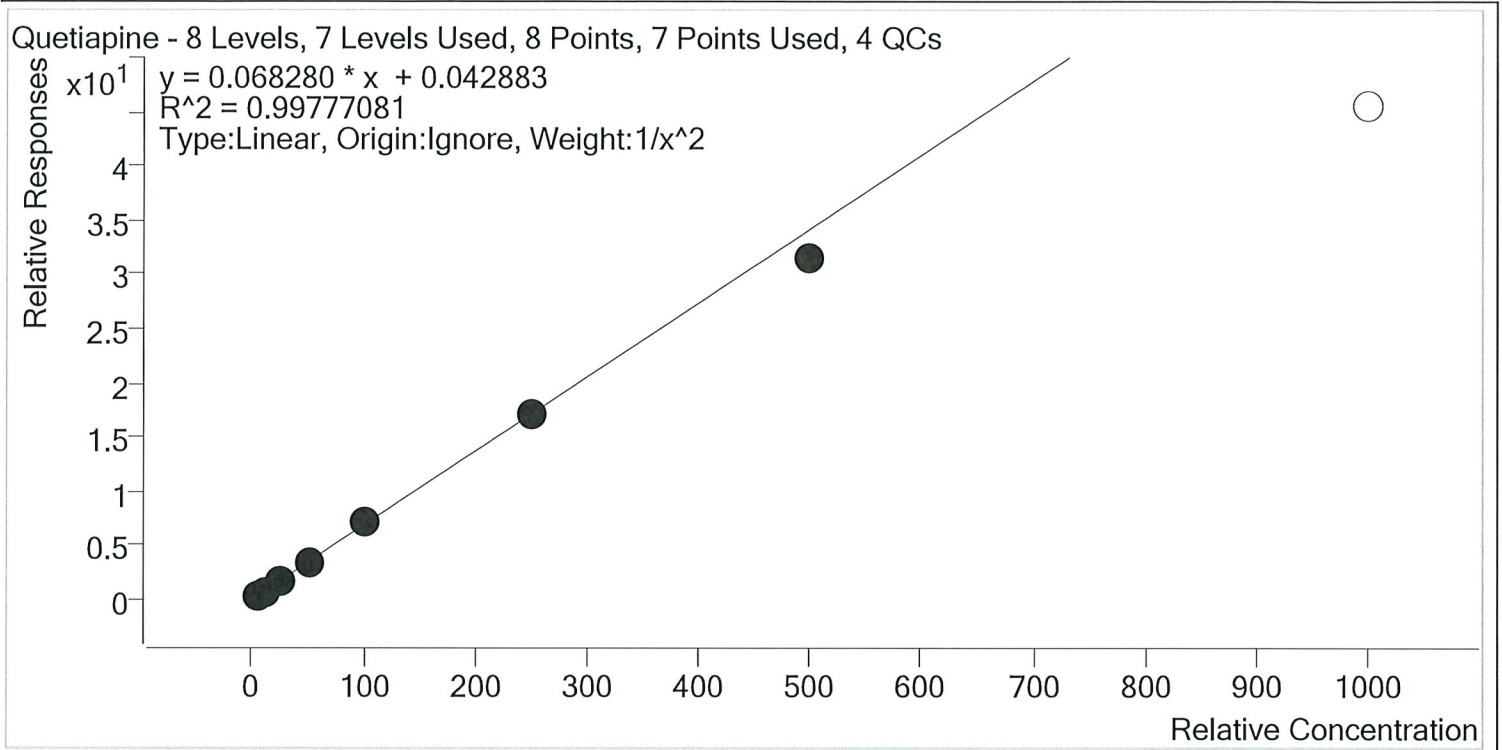
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	243.9	97.6
p1 Cal 7-500ng	7	✓	500.0	487.1	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1021.1	102.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8



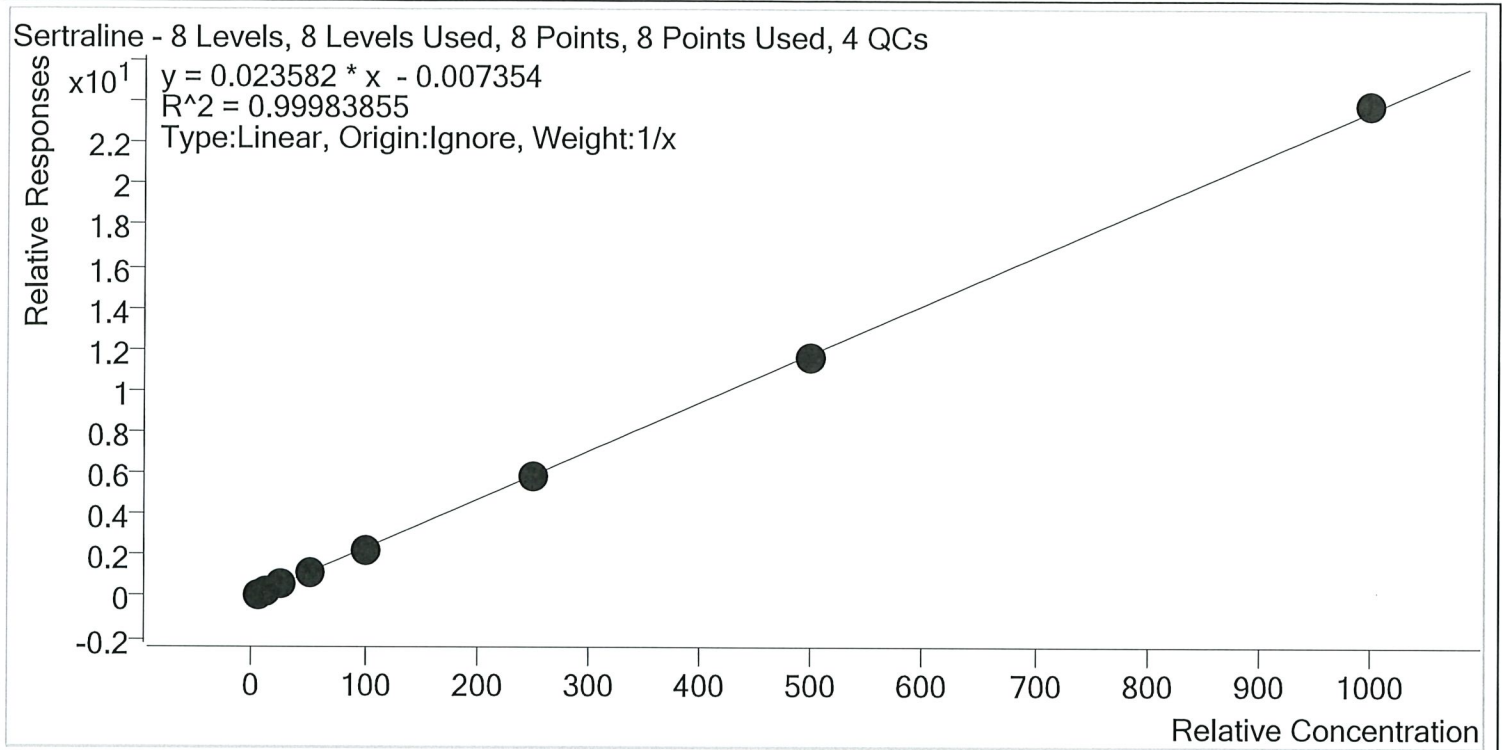
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	460.7	92.1
p1 Cal 8-1000ng	8	×	1000.0	666.0	66.6

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datator  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



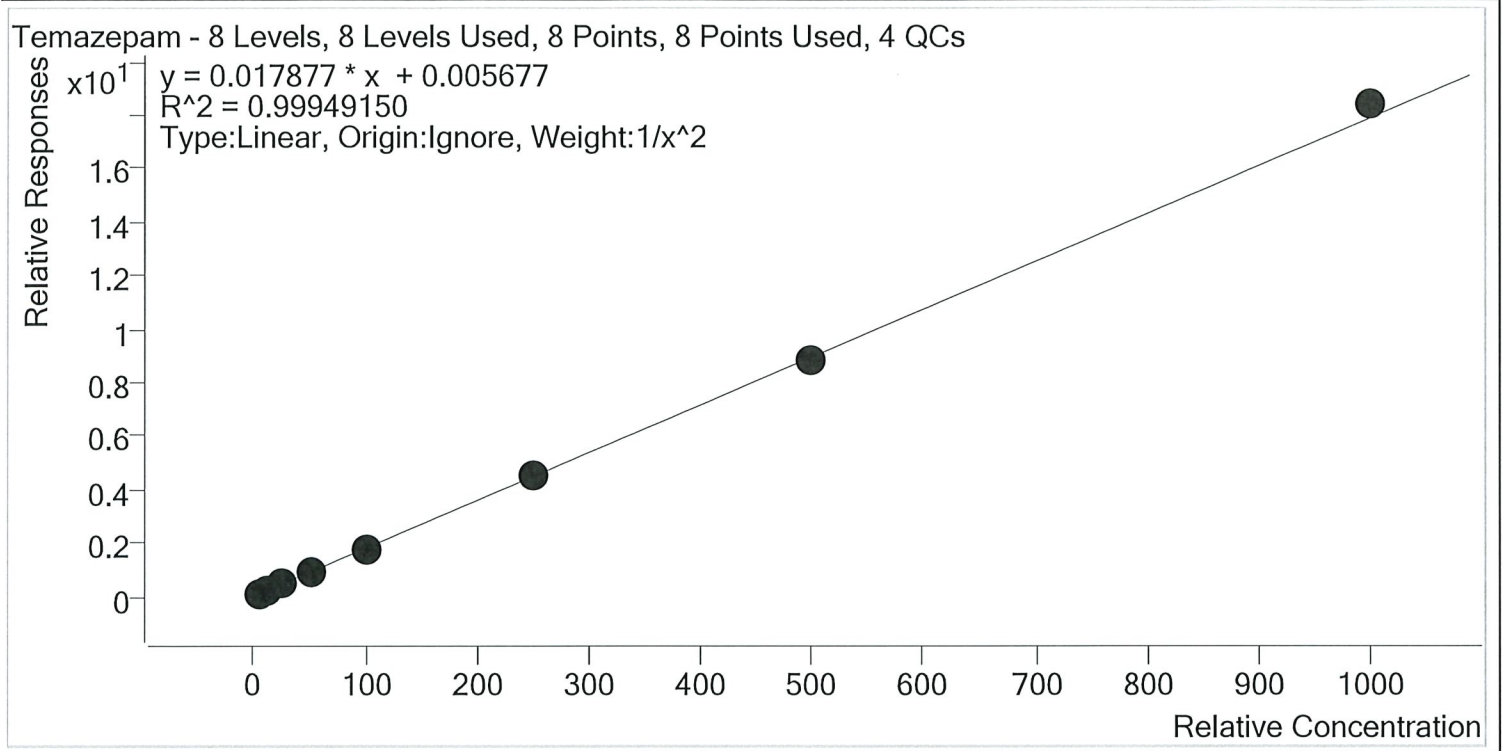
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.8
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	495.5	99.1
p1 Cal 8-1000ng	8	✓	1000.0	1010.3	101.0

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5



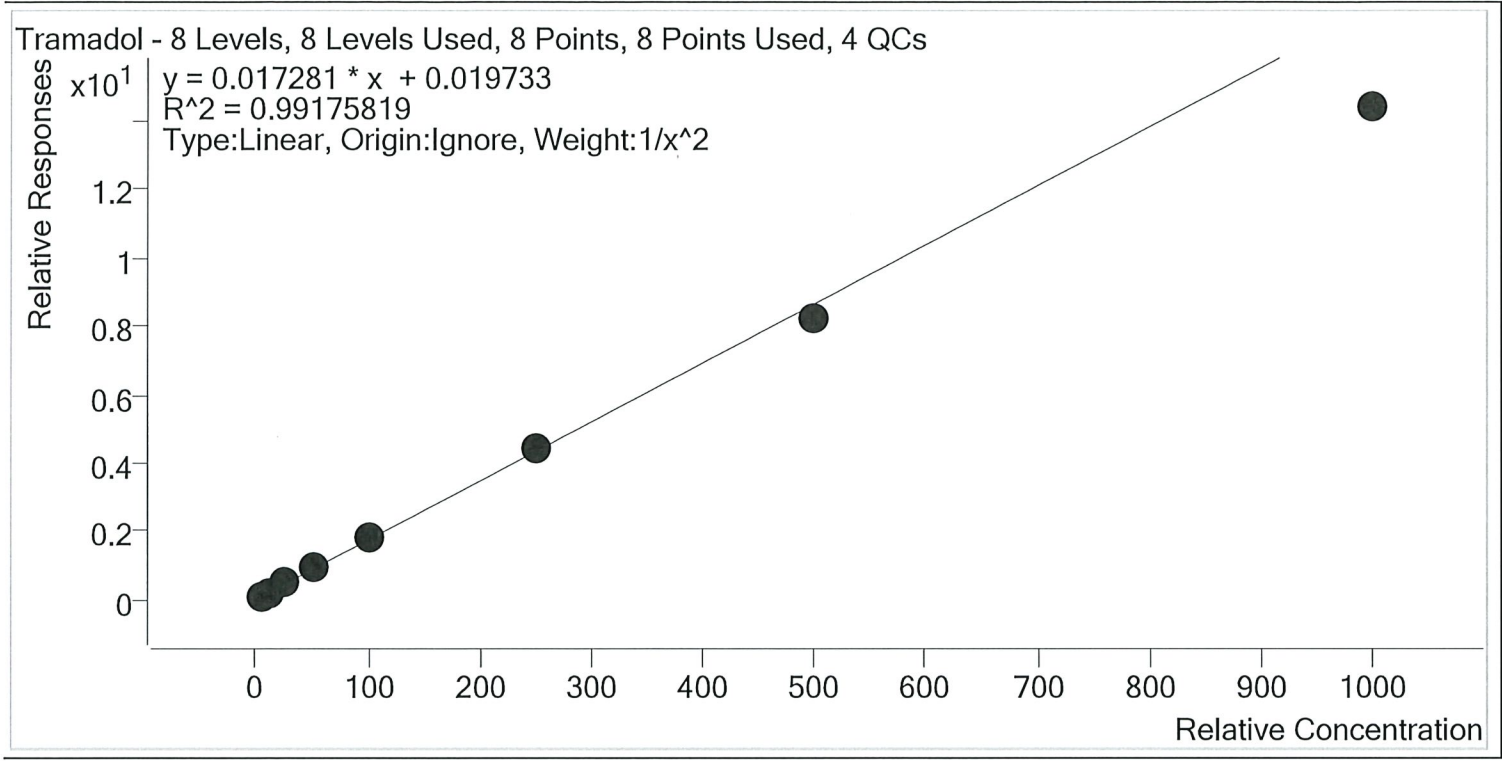
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.6
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	490.9	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1028.6	102.9

D



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

Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
 Last Cal. Update 12/19/2019 10:25 AM  
 Analyst Name ISP\Datastor  
 Analyte Tramadol Internal Standard Tramadol-13C-D3



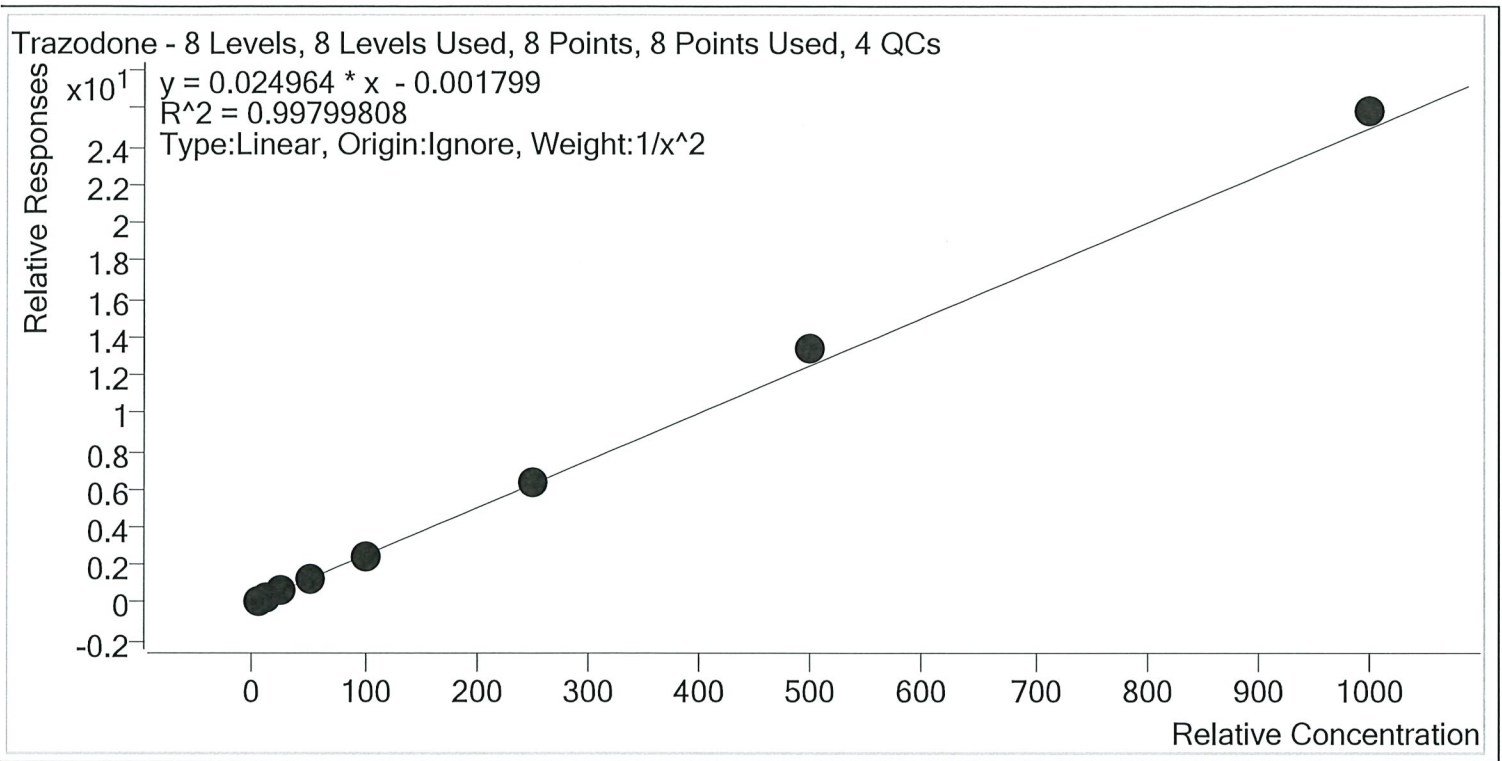
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	53.5	106.9
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	257.7	103.1
p1 Cal 7-500ng	7	✓	500.0	478.7	95.7
p1 Cal 8-1000ng	8	✓	1000.0	833.5	83.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklist 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6



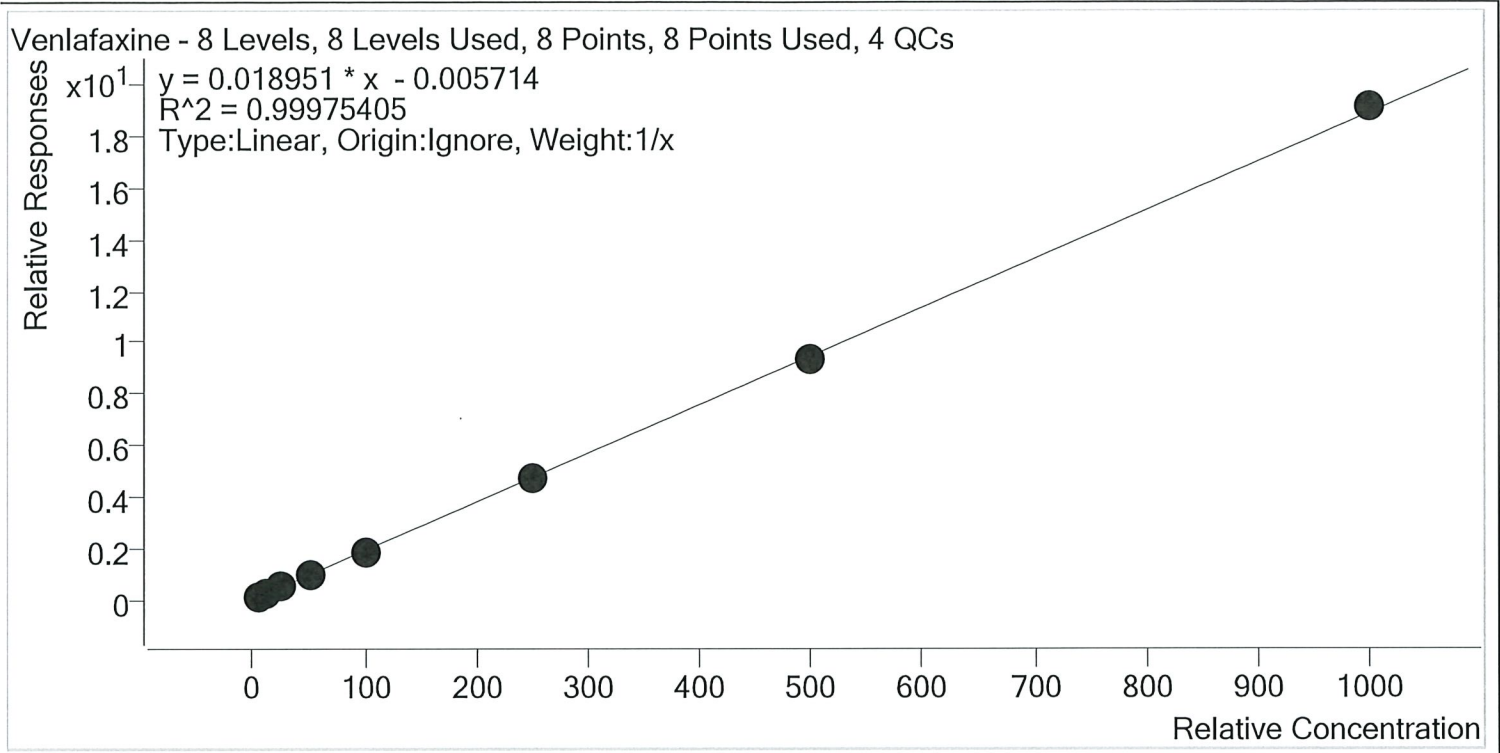
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.3
p1 Cal 4-50ng	4	✓	50.0	48.2	96.4
p1 Cal 5-100ng	5	✓	100.0	95.7	95.7
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	533.6	106.7
p1 Cal 8-1000ng	8	✓	1000.0	1035.7	103.6





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

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
**Last Cal. Update** 12/19/2019 10:25 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6



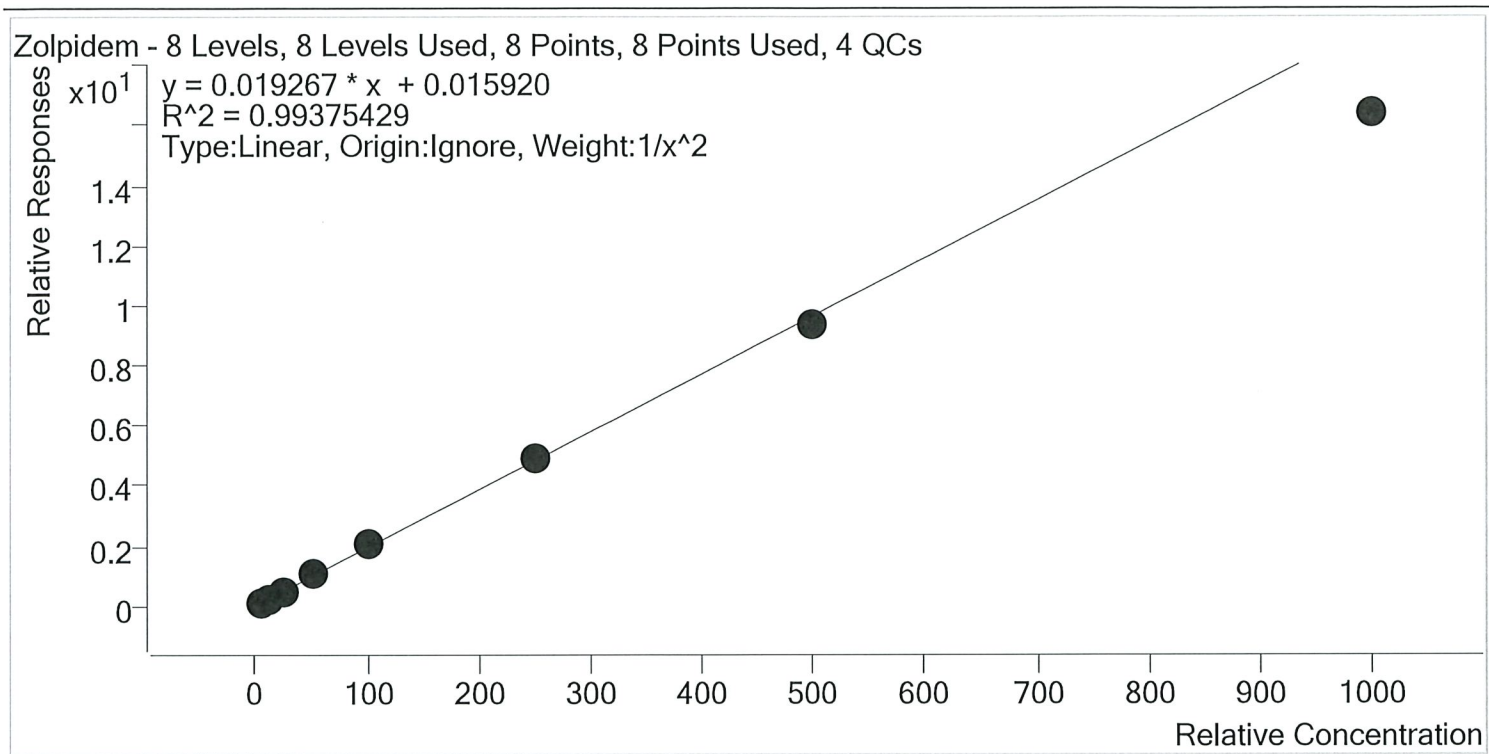
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	49.4	98.9
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	245.7	98.3
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1012.2	101.2

TS



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

Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1  
 TS.batch.bin  
 Last Cal. Update 12/19/2019 10:25 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	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p1 Cal 4-50ng	4	✓	50.0	53.2	106.5
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	256.8	102.7
p1 Cal 7-500ng	7	✓	500.0	487.8	97.6
p1 Cal 8-1000ng	8	✓	1000.0	850.3	85.0

TS

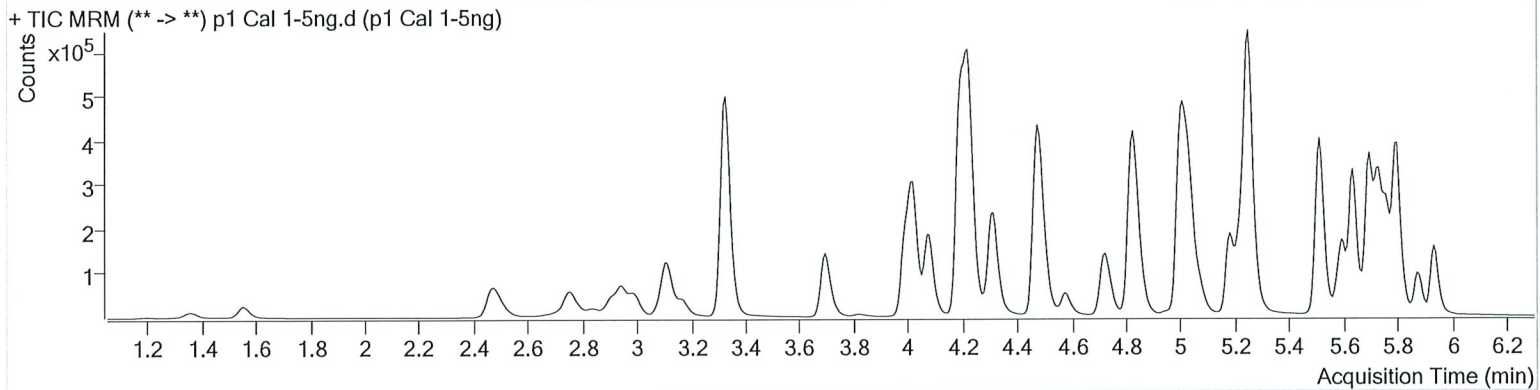


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 1-5ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-H12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:03:02 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	991	4179.05	69.8	2459.14	39255	0.5021 ng/ml
7-aminoclonazepam	4.224	18921	302.77	80.4	2767.40	140856	4.7309 ng/ml
a-hydroxyalprazolam	5.680	3520	105.34	66.5	248.13	35015	4.7722 ng/ml
alpha-PVP	4.324	56713	1540.04	49.7	1629.53	495165	5.2457 ng/ml
Alprazolam	5.756	34637	316.12	100.4	543.06	161617	4.5357 ng/ml
Amphetamine	2.987	64806	1345.72	54.9	1535.97	126296	4.7348 ng/ml
Benzoylcegonine	3.847	1452	14.44	7.5	6.34	12295	5.0924 ng/ml
Buprenorphine	5.740	1944	71.94	19.5	∞	157874	0.4653 ng/ml
Bupropion	4.739	48513	2139.39	56.6	652.90	329288	4.7343 ng/ml
Carisoprodol	5.705	25308	298.97	52.7	61.74	240162	4.9922 ng/ml
Citalopram	5.182	41395	1491.00	42.0	∞	371041	5.1462 ng/ml
Clonazepam	5.586	25480	1855.22	32.8	913.03	88770	4.8951 ng/ml
Cocaine	4.223	60719	88384.61	43.5	1563.34	900568	5.2023 ng/ml
Codeine	2.529	6118	1471.71	103.2	49038.47	49078	4.8249 ng/ml
Cyclobenzaprine	5.603	32120	23459.53	10.1	82.68	229716	5.0590 ng/ml
Dextromethorphan	5.225	23205	60872.40	80.1	531.38	211827	4.8515 ng/ml
Dextrorphan	4.079	14497	955.98	211.0	4745.20	382622	5.1747 ng/ml
Diazepam	5.941	29278	1511.50	87.2	494.57	262605	4.9708 ng/ml
Dihydrocodeine	2.508	16402	586.52	67.4	1064.95	172847	4.7296 ng/ml
Diphenhydramine	5.252	90414	6757.92	33.1	255.23	1331854	5.5804 ng/ml
Doxylamine	4.494	124050	5907.69	97.1	∞	1011817	3.7548 ng/ml
EDDP	5.224	15626	1409.05	42.9	2381.82	175369	5.0086 ng/ml
Fentanyl	5.052	3069	106.80	74.4	∞	329034	0.4930 ng/ml
Fluoxetine	5.695	35301	1754.11	9.0	5585.74	293981	5.2605 ng/ml
Hydrocodone	2.971	12563	222.37	42.9	88.60	161590	4.8602 ng/ml
Hydromorphone	1.561	8537	342.38	77.6	74.14	61217	4.9636 ng/ml
Ketamine	4.006	48251	1643.32	37.1	654.37	416967	4.9053 ng/ml
Lamotrigine	4.234	5269	715.23	77.8	499.42	416967	4.8807 ng/ml
Lorazepam	5.728	22308	∞	56.7	230.92	88770	4.5278 ng/ml
Meprobamate	4.868	8849	81.27	27.6	170.91	74007	5.1215 ng/ml
Methadone	5.634	62318	4868.62	51.5	261.46	554771	5.3236 ng/ml
Methamphetamine	3.175	53864	3936.42	42.6	49639.46	334428	4.9360 ng/ml
Metoprolol	4.286	9334	3208.71	102.1	∞	1106775	4.8697 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	79340	3261.12	49.3	19470.22	495165	4.8906 ng/ml
Mitragynine	5.187	10278	2122.36	42.6	∞	554771	4.7930 ng/ml
Morphine	1.206	1337	931.20	24.3	273.31	2763	5.1557 ng/ml
Norbuprenorphine	4.949	239	87.68	62.5	307.28	15230	0.5099 ng/ml
Nordiazepam	5.881	25550	1314.42	56.8	650.04	153081	4.9229 ng/ml
Norfentanyl	4.040	6589	1368.98	38.7	40.07	579427	0.5173 ng/ml
Norhydrocodone	3.012	280	187.56	33.3	380.74	28361	16.4459 ng/ml
Noroxycodone	2.856	8587	324.04	50.1	20.36	51247	4.8943 ng/ml
O-desmethyl-tramadol	3.334	108992	9806.08	6.0	448.44	1144767	5.0299 ng/ml
Oxazepam	5.738	35707	226.15	68.8	98.82	448809	4.7756 ng/ml
Oxycodone	2.780	22656	922.86	32.1	209.17	204243	4.8678 ng/ml
Oxymorphone	1.363	5287	312.94	47.2	343.28	37031	4.9833 ng/ml
Phentermine	3.731	16156	449.98	2.4	36.65	371548	4.7001 ng/ml
Promethazine	5.514	74098	8234.47	31.1	468.28	661451	5.3014 ng/ml
Quetiapine	5.517	43593	701.32	60.2	81883.95	114321	4.9565 ng/ml
Sertraline	5.764	25522	587.00	91.2	1639.43	217735	5.2824 ng/ml
Temazepam	5.805	65125	385.17	29.0	123.39	674956	5.0798 ng/ml
Tramadol	4.206	114383	8803.16	3.4	62.95	1106775	4.8385 ng/ml
Trazodone	5.072	58535	3127.67	79.1	∞	469313	5.0682 ng/ml
Venlafaxine	5.000	87047	5566.72	36.4	264.53	893680	5.4413 ng/ml
Zolpidem	4.844	107772	851.29	30.7	8181.43	976814	4.9000 ng/ml

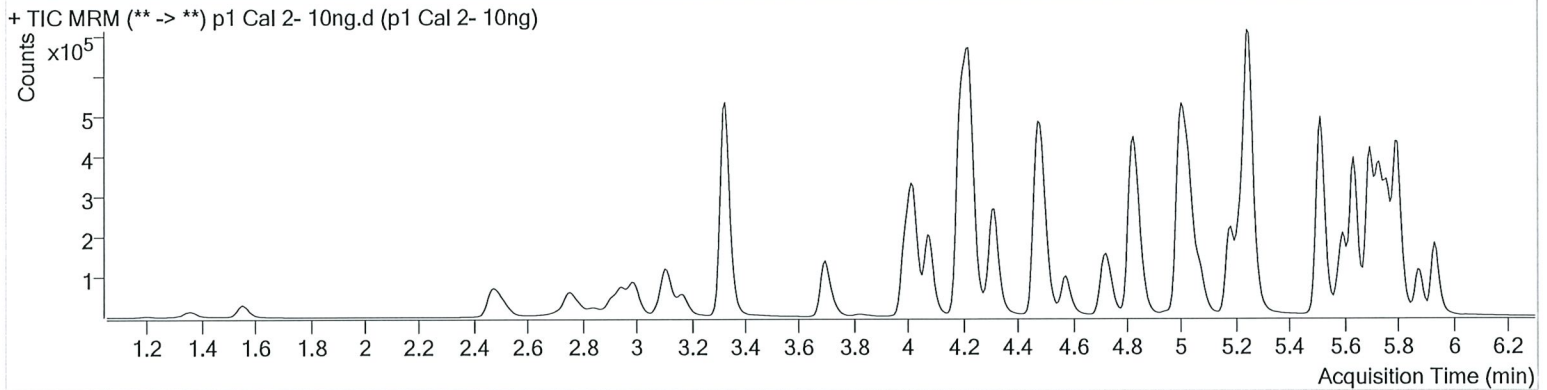
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 2- 10ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 2- 10ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-G12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:13:46 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	1947	866.19	74.7	9126.28	40110	0.9946 ng/ml
7-aminoclonazepam	4.224	36446	221.48	83.2	100803.10	141054	10.4032 ng/ml
a-hydroxyalprazolam	5.673	6880	233.95	69.2	12268.89	34519	10.3766 ng/ml
alpha-PVP	4.324	109094	1047.92	51.8	3633.89	496670	9.9751 ng/ml
Alprazolam	5.756	68666	596.21	96.6	401.11	162055	9.7672 ng/ml
Amphetamine	2.994	119145	1690.63	53.1	4023.83	122213	10.5576 ng/ml
Benzoylcegonine	3.847	2864	345.58	8.1	80.90	12258	9.8589 ng/ml
Buprenorphine	5.740	4769	∞	17.1	775.20	162290	1.1108 ng/ml
Bupropion	4.739	92085	2935.20	57.1	825.02	324178	9.7418 ng/ml
Carisoprodol	5.705	48928	∞	52.5	129.42	239336	10.0043 ng/ml
Citalopram	5.182	85201	1012.29	42.0	1445.07	387632	10.1404 ng/ml
Clonazepam	5.586	47557	3077.32	34.2	∞	87844	10.0794 ng/ml
Cocaine	4.223	118855	42319.35	43.8	423.03	894250	10.0750 ng/ml
Codeine	2.529	11727	25206.08	104.4	292.16	49556	10.1613 ng/ml
Cyclobenzaprine	5.603	66835	153661.49	11.0	436.08	245112	9.8885 ng/ml
Dextromethorphan	5.225	49351	1783.89	78.1	469.13	219805	10.1894 ng/ml
Dextropropion	4.079	28190	3747.13	212.1	1118.45	385843	9.9191 ng/ml
Diazepam	5.941	56265	286.27	88.6	475.91	263439	9.9553 ng/ml
Dihydrocodeine	2.508	32281	1749.40	66.9	7906.32	172913	10.5027 ng/ml
Diphenhydramine	5.252	176867	3280.05	34.0	520.48	1361853	10.1628 ng/ml
Doxylamine	4.494	244843	76421.11	98.0	∞	1037547	9.2262 ng/ml
EDDP	5.217	36749	3721.20	42.0	593.50	207306	10.0442 ng/ml
Fentanyl	5.046	6661	364.85	63.8	1110.37	352539	1.0271 ng/ml
Fluoxetine	5.695	75727	4488.63	8.9	18809.01	320058	10.2552 ng/ml
Hydrocodone	2.971	24985	185.42	39.3	90.58	160764	10.2692 ng/ml
Hydromorphone	1.561	16711	654.08	78.3	243.79	61504	10.0852 ng/ml
Ketamine	4.006	91778	1642.22	38.2	2965.75	415832	10.1161 ng/ml
Lamotrigine	4.234	9246	529.85	81.3	∞	415832	9.9716 ng/ml
Lorazepam	5.728	42305	∞	56.0	228.21	87844	10.5485 ng/ml
Meprobamate	4.868	15590	915.50	27.5	340.23	72800	9.5994 ng/ml
Methadone	5.634	126273	4288.32	53.0	1925.49	588467	10.0800 ng/ml
Methamphetamine	3.175	86416	1780.45	43.1	1725.35	316885	9.9673 ng/ml
Metoprolol	4.286	18751	78780.81	92.8	∞	1109354	10.2829 ng/ml

# AM #28 Multi-Drug Quant. Results

TS



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	158094	∞	49.6	8815.51	496670	10.1564 ng/ml
Mitragynine	5.187	21465	2478.01	41.5	167.73	588467	9.9155 ng/ml
Morphine	1.206	2490	757.19	22.6	1165.49	2901	9.4477 ng/ml
Norbuprenorphine	4.949	402	∞	72.0	124.33	16100	0.9552 ng/ml
Nordiazepam	5.881	49815	∞	56.6	1284.15	156281	10.0303 ng/ml
Norfentanyl	4.040	12973	2307.99	37.1	370.18	590605	0.9728 ng/ml
Norhydrocodone	3.019	522	66.22	37.7	488.10	29195	18.3021 ng/ml
Noroxycodone	2.862	17040	425.60	48.7	13.47	51364	10.1472 ng/ml
O-desmethyl-tramadol	3.328	210294	3489.63	6.1	1955.34	1146530	9.8805 ng/ml
Oxazepam	5.738	69801	723.80	71.4	254.28	444762	10.3519 ng/ml
Oxycodone	2.780	45876	544.73	31.7	1847.96	205079	10.2624 ng/ml
Oxymorphone	1.363	10036	153.77	47.8	121.44	36600	9.9580 ng/ml
Phentermine	3.731	31311	801.94	2.2	33.46	359548	10.6864 ng/ml
Promethazine	5.514	154297	11214.02	30.3	1693.52	706315	10.1043 ng/ml
Quetiapine	5.517	87360	1678.11	60.7	189153.89	120730	9.9695 ng/ml
Sertraline	5.764	53282	1048.18	91.6	941.70	231202	10.0843 ng/ml
Temazepam	5.805	122415	346.19	31.1	165.52	686621	9.6554 ng/ml
Tramadol	4.206	218108	1499.52	3.4	158.48	1109354	10.2351 ng/ml
Trazodone	5.065	118985	∞	79.3	70322.84	481306	9.9746 ng/ml
Venlafaxine	5.000	166493	2383.20	37.4	477.42	904976	10.0096 ng/ml
Zolpidem	4.844	209908	544.20	31.4	1308.81	1002423	10.0419 ng/ml

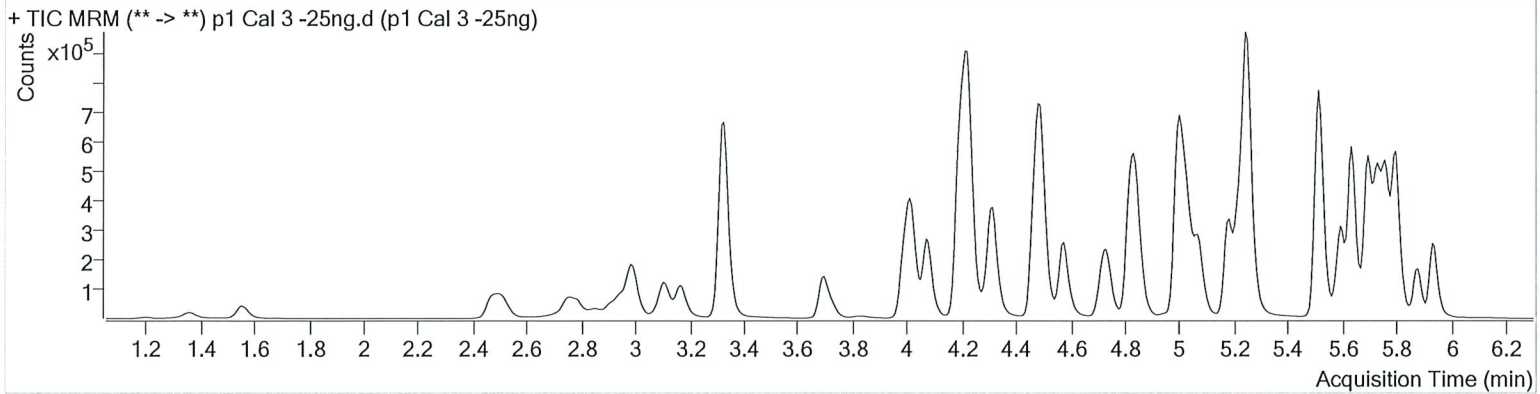
# AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
 Calibration Last Update 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 3 -25ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-F12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:24:20 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.089	4844	6773.08	73.2	∞	40802	2.4770 ng/ml
7-aminoclonazepam	4.224	88512	2343.63	82.9	6822.50	141878	27.1149 ng/ml
a-hydroxyalprazolam	5.673	16773	307.57	69.1	284.93	33992	27.0596 ng/ml
alpha-PVP	4.317	278706	26775.27	50.7	1242.56	507674	24.7925 ng/ml
Alprazolam	5.756	162917	844.05	101.6	1446.38	155599	25.3394 ng/ml
Amphetamine	2.987	284477	5038.22	53.9	5122.12	121618	27.7602 ng/ml
Benzoylcegonine	3.847	7185	331.36	8.3	24.35	12407	24.1182 ng/ml
Buprenorphine	5.740	12557	670.21	15.6	5755.85	179293	2.6481 ng/ml
Bupropion	4.739	237541	∞	58.0	493.53	338369	25.0490 ng/ml
Carisoprodol	5.705	115156	282.18	53.1	1317.60	229678	25.0296 ng/ml
Citalopram	5.182	221600	1170.41	43.2	676.16	418248	24.4461 ng/ml
Clonazepam	5.586	115448	5557.11	34.5	995.18	86919	26.1171 ng/ml
Cocaine	4.223	296699	1206168.92	42.5	2056.78	909126	24.4688 ng/ml
Codeine	2.523	28989	1583.44	101.6	6528.33	49163	26.9836 ng/ml
Cyclobenzaprine	5.603	181616	687.53	10.3	719.35	270535	24.3816 ng/ml
Dextromethorphan	5.225	128527	608.82	80.4	296.44	237445	24.8959 ng/ml
Dextrorphan	4.079	74049	5033.50	206.6	1431.06	397934	25.1644 ng/ml
Diazepam	5.941	139339	2454.03	88.1	1818.15	265253	25.1759 ng/ml
Dihydrocodeine	2.501	80358	1668.89	66.7	2381.74	177376	27.2544 ng/ml
Diphenhydramine	5.252	474559	1310.45	34.0	707.53	1482023	24.2336 ng/ml
Doxylamine	4.487	628215	4717.64	97.8	222219.76	1078291	25.9528 ng/ml
EDDP	5.217	108780	924.98	42.2	1719.96	251443	24.6280 ng/ml
Fentanyl	5.046	17563	1168.40	64.6	23582.13	391147	2.4791 ng/ml
Fluoxetine	5.695	197868	14302.38	9.5	∞	351278	24.2581 ng/ml
Hydrocodone	2.971	62114	255.28	41.8	200.68	161752	26.1892 ng/ml
Hydromorphone	1.561	40193	1163.20	77.9	561.00	60729	25.1925 ng/ml
Ketamine	4.006	227734	2545.56	38.6	832.48	422892	25.8891 ng/ml
Lamotrigine	4.227	23419	653.50	79.4	932.91	422892	27.5452 ng/ml
Lorazepam	5.728	96739	∞	55.4	402.67	86919	27.0557 ng/ml
Meprobamate	4.868	38216	1039.12	27.0	530.45	71871	24.6356 ng/ml
Methadone	5.634	332371	3370.12	53.6	17974.70	639803	24.2636 ng/ml
Methamphetamine	3.168	198149	1272.83	42.9	12202.68	314348	26.0854 ng/ml
Metoprolol	4.286	47103	344284.68	96.9	∞	1138524	25.9228 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	414487	68142.04	50.0	30407.80	507674	26.7499 ng/ml
Mitragynine	5.187	58512	1804.44	38.6	48672.66	639803	25.6047 ng/ml
Morphine	1.206	6116	2629.76	23.4	1859.66	2847	24.2367 ng/ml
Norbuprenorphine	4.949	973	169.85	79.7	1219.53	17466	2.4309 ng/ml
Nordiazepam	5.881	121584	∞	57.5	4458.42	154249	25.8211 ng/ml
Norfentanyl	4.040	31451	4091.34	38.2	559.81	595281	2.3001 ng/ml
Norhydrocodone	3.012	1741	241.38	42.5	170.52	32148	26.6913 ng/ml
Noroxycodone	2.862	42591	686.99	48.4	18.93	51593	25.9448 ng/ml
O-desmethyl-tramadol	3.328	532228	12105.59	6.0	1250.28	1164625	24.9242 ng/ml
Oxazepam	5.738	166304	4989.90	67.9	205.23	430995	26.8489 ng/ml
Oxycodone	2.780	116429	1829.51	31.0	1391.72	209958	26.0885 ng/ml
Oxymorphone	1.363	24806	451.46	49.0	1118.71	37301	24.7498 ng/ml
Phentermine	3.731	74242	2836.53	2.5	119.32	364662	26.6819 ng/ml
Promethazine	5.514	419076	10014.37	30.5	27483.49	778918	24.5257 ng/ml
Quetiapine	5.517	222730	3196.33	58.3	16377.99	123474	25.7904 ng/ml
Sertraline	5.764	139609	840.69	91.1	603.70	245383	24.4376 ng/ml
Temazepam	5.805	309901	863.83	30.6	820.00	679821	25.1821 ng/ml
Tramadol	4.206	541808	2208.72	3.4	349.99	1138524	26.3959 ng/ml
Trazodone	5.065	312601	440525.54	79.1	324407.04	521910	24.0644 ng/ml
Venlafaxine	5.000	423990	2929.74	36.9	2744.65	935328	24.2219 ng/ml
Zolpidem	4.837	536626	1306.75	30.9	6235.65	1031895	26.1645 ng/ml



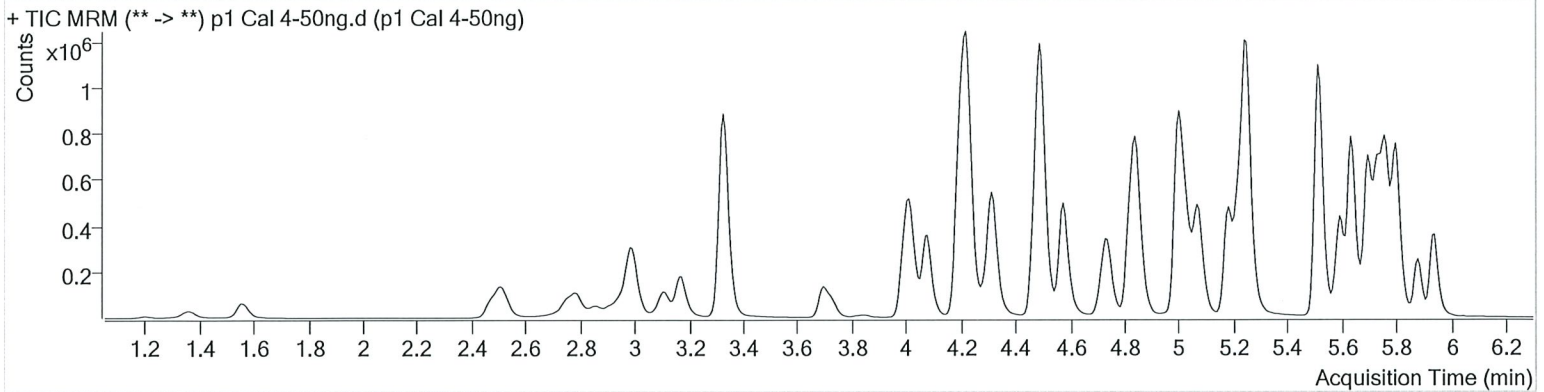
# AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
 Calibration Last Update 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 4-50ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-E12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:34:57 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	9448	389.23	71.2	98719.05	39323	5.0450 ng/ml
7-aminoclonazepam	4.224	168616	19528.76	81.7	233.51	132742	56.6712 ng/ml
a-hydroxyalprazolam	5.673	32846	392.35	65.1	479.60	34051	53.7880 ng/ml
alpha-PVP	4.324	539024	1993.62	50.8	14501.86	489377	49.6487 ng/ml
Alprazolam	5.756	315556	1213.84	100.3	667.50	152041	51.0326 ng/ml
Amphetamine	2.994	491510	4515.38	54.1	6853.77	111917	53.6437 ng/ml
Benzoylcegonine	3.847	14119	657.98	8.2	116.26	12289	47.6378 ng/ml
Buprenorphine	5.740	23575	∞	16.6	26192.16	171321	5.2034 ng/ml
Bupropion	4.739	441389	5974.25	57.1	1365.27	308037	51.8167 ng/ml
Carisoprodol	5.705	221361	994.33	53.7	18200.74	216932	51.2925 ng/ml
Citalopram	5.182	428468	2175.79	41.7	3688.14	393757	50.2086 ng/ml
Clonazepam	5.586	222658	30636.41	33.0	∞	83158	53.6195 ng/ml
Cocaine	4.223	584682	44327.47	43.1	1111.98	870884	50.1399 ng/ml
Codeine	2.529	55527	1406.52	102.8	649.30	47010	55.1729 ng/ml
Cyclobenzaprine	5.603	344279	22184.41	10.8	701.27	251737	49.6951 ng/ml
Dextromethorphan	5.225	244135	∞	78.8	1557.88	222558	50.6934 ng/ml
Dextrothorphan	4.079	145015	1573.07	210.0	7103.78	392794	49.8629 ng/ml
Diazepam	5.941	275940	740.59	85.7	4081.94	251576	53.0822 ng/ml
Dihydrocodeine	2.508	158558	2605.04	67.1	15104.52	174432	55.9309 ng/ml
Diphenhydramine	5.252	908039	1041.20	33.4	23103.32	1391146	48.8151 ng/ml
Doxylamine	4.494	1247528	48772.49	96.9	104165.24	1056178	54.8377 ng/ml
EDDP	5.224	218323	6956.47	43.2	5836.17	248415	50.1142 ng/ml
Fentanyl	5.052	34048	4130.46	63.9	1325.70	370142	5.1079 ng/ml
Fluoxetine	5.695	377576	19151.53	9.0	4005.00	324337	50.0141 ng/ml
Hydrocodone	2.971	124625	∞	41.1	294.74	164482	52.2129 ng/ml
Hydromorphone	1.561	80334	697.59	76.9	1735.06	59980	51.4278 ng/ml
Ketamine	4.006	447721	2044.01	38.5	807.67	417069	52.4405 ng/ml
Lamotrigine	4.234	43681	1391.94	77.9	1644.87	417069	53.7171 ng/ml
Lorazepam	5.728	158751	1539.06	59.7	1353.27	83158	47.8680 ng/ml
Meprobamate	4.868	72338	3176.87	26.1	775.49	67194	50.4309 ng/ml
Methadone	5.634	636227	25958.68	52.5	9105.51	591508	50.1327 ng/ml
Methamphetamine	3.175	338620	19220.96	42.3	73078.07	275252	53.1200 ng/ml
Metoprolol	4.286	92555	∞	98.0	8650.13	1115861	52.4945 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	806269	314343.72	49.8	96234.56	489377	54.4349 ng/ml
Mitragynine	5.187	110300	120289.63	39.6	194899.19	591508	52.7212 ng/ml
Morphine	1.206	11705	649.66	23.5	737.81	2686	49.5526 ng/ml
Norbuprenorphine	4.949	1918	227.65	78.8	41.90	16540	5.3197 ng/ml
Nordiazepam	5.881	237916	74433.62	56.2	1484.04	149154	52.9600 ng/ml
Norfentanyl	4.040	64082	1872.03	36.3	1200.68	582762	4.7564 ng/ml
Norhydrocodone	3.019	4542	1742.24	39.7	105.08	33241	45.7646 ng/ml
Noroxycodone	2.862	83981	2022.19	46.8	426.68	50248	53.0041 ng/ml
O-desmethyl-tramadol	3.328	1054028	52711.23	6.1	14369.24	1147406	50.3086 ng/ml
Oxazepam	5.738	305158	2839.23	68.1	196.85	386390	55.9562 ng/ml
Oxycodone	2.780	230427	2230.48	31.1	1864.94	209020	52.2974 ng/ml
Oxymorphone	1.363	51143	293.01	47.3	638.56	36022	53.3127 ng/ml
Phentermine	3.731	141552	3896.84	2.3	260.96	332341	57.2064 ng/ml
Promethazine	5.514	789432	976.44	30.6	8125.68	719691	49.7466 ng/ml
Quetiapine	5.517	431694	11165.09	59.3	14291.39	121278	51.5030 ng/ml
Sertraline	5.764	253665	1465.56	89.8	447.97	217522	49.7621 ng/ml
Temazepam	5.805	594700	5659.79	31.8	388.21	661407	49.9787 ng/ml
Tramadol	4.206	1052912	53935.72	3.4	1106.85	1115861	53.4600 ng/ml
Trazodone	5.072	600776	∞	80.2	48544.32	500216	48.1818 ng/ml
Venlafaxine	5.000	844193	31507.82	36.7	1053.53	906801	49.4269 ng/ml
Zolpidem	4.844	1049389	81965.86	31.0	16130.90	1007461	53.2352 ng/ml

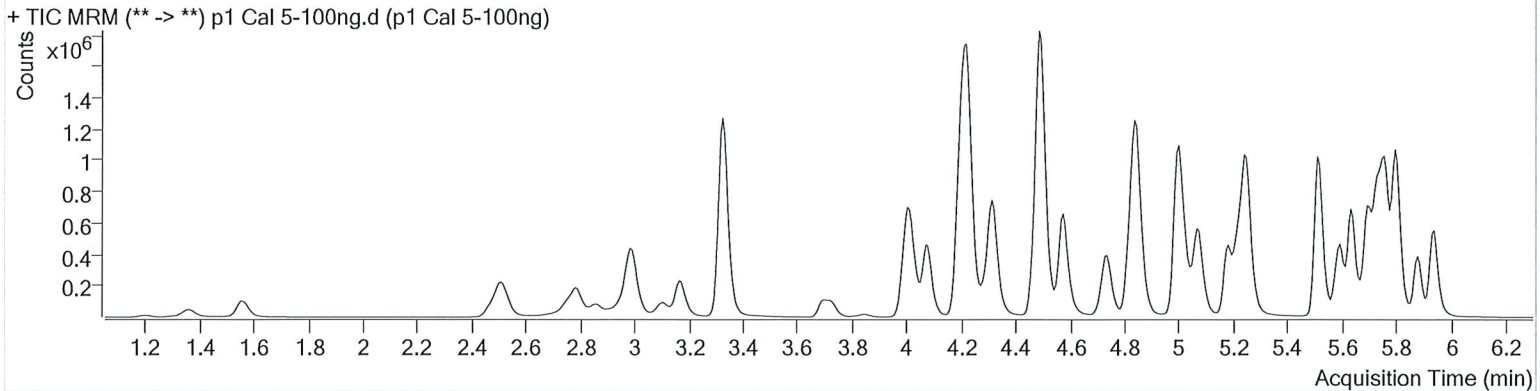
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-D12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:45:32 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	18437	26611.24	71.2	87228.97	39362	9.8645 ng/ml
7-aminoclonazepam	4.224	290677	1039.70	81.8	13051.63	117412	111.7904 ng/ml
a-hydroxyalprazolam	5.673	62872	1264.33	65.4	577.12	32822	107.7302 ng/ml
alpha-PVP	4.324	895751	140362.49	50.8	1634.10	412228	97.8573 ng/ml
Alprazolam	5.756	587726	2306.64	102.0	1538.13	138446	105.2374 ng/ml
Amphetamine	2.994	690673	10264.46	53.7	28860.96	87021	98.3477 ng/ml
Benzoylcegonine	3.847	28930	635.05	7.5	356.68	12126	98.6930 ng/ml
Buprenorphine	5.740	24022	712.96	15.3	∞	92606	9.8092 ng/ml
Bupropion	4.739	566245	1767.98	57.7	2107.48	202618	101.6880 ng/ml
Carisoprodol	5.705	402052	18757.48	53.1	381.52	207447	97.7268 ng/ml
Citalopram	5.182	507154	2850.91	41.7	578.33	237431	98.5595 ng/ml
Clonazepam	5.586	405393	70998.42	32.9	∞	77409	105.7882 ng/ml
Cocaine	4.223	1042977	79409.60	43.4	70260.56	797172	97.5359 ng/ml
Codeine	2.529	98747	794.78	101.8	3499.14	44436	104.7843 ng/ml
Cyclobenzaprine	5.603	327511	∞	10.7	417.20	121449	98.0143 ng/ml
Dextromethorphan	5.225	253007	13731.29	79.6	1684.01	117147	100.0353 ng/ml
Dextrorphan	4.079	243002	2381.28	207.7	4218.06	332400	98.6733 ng/ml
Diazepam	5.941	502995	3896.91	87.7	2579.47	240507	101.6426 ng/ml
Dihydrocodeine	2.508	287712	39347.49	67.7	722.14	171593	104.2153 ng/ml
Diphenhydramine	5.252	1031605	75392.60	33.3	3800.40	810195	94.6898 ng/ml
Doxylamine	4.494	2126039	10607.25	97.4	254019.40	927096	108.5016 ng/ml
EDDP	5.217	291299	1618.86	42.4	5404.55	170674	97.3969 ng/ml
Fentanyl	5.052	32375	1743.77	66.4	1488.76	181099	9.9530 ng/ml
Fluoxetine	5.695	357446	2431.18	8.9	2369.56	157569	97.3522 ng/ml
Hydrocodone	2.971	226435	∞	41.8	414.35	152799	102.6510 ng/ml
Hydromorphone	1.561	149975	∞	78.6	2544.43	59496	97.1768 ng/ml
Ketamine	4.006	828563	7773.70	38.6	2869.03	396994	102.7462 ng/ml
Lamotrigine	4.234	77403	4297.59	78.5	5876.99	396994	101.5667 ng/ml
Lorazepam	5.728	236865	∞	57.7	615.50	77409	77.9568 ng/ml
Meprobamate	4.868	127031	37938.47	26.0	910.50	61732	96.8892 ng/ml
Methadone	5.634	676312	3062.63	52.9	20936.11	324425	97.0712 ng/ml
Methamphetamine	3.168	441447	∞	42.8	42899.13	191446	101.5959 ng/ml
Metoprolol	4.286	160174	370434.60	95.5	∞	1007498	101.0937 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	1064991	139528.99	49.5	9015.49	412228	85.6127 ng/ml
Mitragynine	5.187	110068	10932.55	38.8	80715.00	324425	96.3272 ng/ml
Morphine	1.206	24058	617.89	21.5	209.25	2596	105.8330 ng/ml
Norbuprenorphine	4.949	2086	169.77	75.5	154.66	9417	10.3814 ng/ml
Nordiazepam	5.881	427717	45900.10	57.7	5970.12	137709	103.7772 ng/ml
Norfentanyl	4.040	118388	3255.64	36.8	6219.52	534249	9.5563 ng/ml
Norhydrocodone	3.019	10953	1799.70	41.9	270.57	34049	88.5535 ng/ml
Noroxycodone	2.856	152308	1455.39	48.2	1093.04	48025	100.9980 ng/ml
O-desmethyl-tramadol	3.328	2024708	133489.77	6.1	1872.98	1116336	99.5290 ng/ml
Oxazepam	5.738	485388	3612.31	70.1	∞	327884	105.7235 ng/ml
Oxycodone	2.780	440821	2285.84	31.7	1028.56	206875	101.4940 ng/ml
Oxymorphone	1.363	96918	281.10	47.8	617.48	35765	102.1377 ng/ml
Phentermine	3.731	195331	7690.96	2.4	456.28	259449	102.0941 ng/ml
Promethazine	5.514	743545	7342.74	30.3	1544.00	342417	98.2385 ng/ml
Quetiapine	5.517	618894	1139.99	60.0	26859.45	86908	103.6669 ng/ml
Sertraline	5.764	229497	1473.13	89.2	16796.53	100577	97.0711 ng/ml
Temazepam	5.805	1141181	1078.80	30.8	∞	638906	99.5959 ng/ml
Tramadol	4.206	1869057	54812.94	3.5	1774.19	1007498	106.2086 ng/ml
Trazodone	5.072	741922	36491.87	79.1	88392.95	310802	95.6930 ng/ml
Venlafaxine	5.000	1381656	4534.54	37.0	1288.74	757565	96.5415 ng/ml
Zolpidem	4.844	2011867	1543.82	30.7	2205.95	985417	105.1378 ng/ml

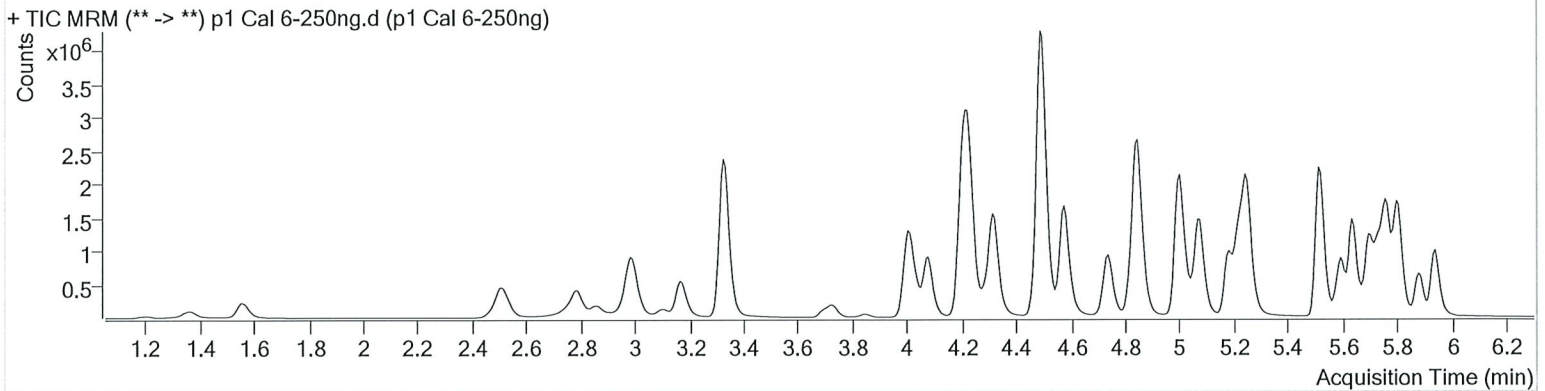
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wklst 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 6-250ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-C12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 3:56:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	47067	2971.35	72.0	19628.43	39935	24.8682 ng/ml
7-aminoclonazepam	4.231	462668	21435.92	81.2	268.59	85114	247.1445 ng/ml
a-hydroxyalprazolam	5.673	124913	711.90	66.9	1586.36	27580	255.9829 ng/ml
alpha-PVP	4.324	2177827	93175.01	50.1	41058.27	398301	246.0983 ng/ml
Alprazolam	5.756	1212892	1755.80	100.9	∞	116916	258.3538 ng/ml
Amphetamine	2.994	1423081	33504.78	53.5	41503.06	85711	207.6286 ng/ml
Benzoylcegonine	3.847	77938	616.54	7.8	1132.55	12755	252.4270 ng/ml
Buprenorphine	5.740	60061	777.98	15.7	1237.17	91599	24.7958 ng/ml
Bupropion	4.739	1443809	360424.88	57.5	3381.48	206288	255.6654 ng/ml
Carisoprodol	5.705	764203	1205.07	52.8	10996.36	155129	248.9258 ng/ml
Citalopram	5.182	1249736	4383.84	41.5	6934.81	232814	247.6909 ng/ml
Clonazepam	5.586	750878	49744.04	33.4	995.50	63757	239.0932 ng/ml
Cocaine	4.223	2350629	205714.39	42.9	66422.22	704991	248.2789 ng/ml
Codeine	2.529	206177	654.14	102.3	∞	39705	246.3416 ng/ml
Cyclobenzaprine	5.603	841746	55362.35	10.6	214.28	122737	249.3025 ng/ml
Dextromethorphan	5.225	613670	41502.68	79.9	730.50	113548	250.6778 ng/ml
Dextrorphan	4.079	587565	46902.47	210.8	8140.26	322244	246.0110 ng/ml
Diazepam	5.941	1071710	2862.01	87.0	6152.95	206641	252.7575 ng/ml
Dihydrocodeine	2.501	644286	3468.66	66.6	7729.20	171245	235.3886 ng/ml
Diphenhydramine	5.252	2610401	40261.39	33.2	16109.69	797069	242.6677 ng/ml
Doxylamine	4.487	5407817	191855.36	96.3	299003.67	935434	276.8132 ng/ml
EDDP	5.217	1104693	2584.60	42.2	59286.90	253027	249.2679 ng/ml
Fentanyl	5.046	85957	1804.26	65.3	∞	189730	25.2663 ng/ml
Fluoxetine	5.695	910151	1126.27	9.1	259.99	160632	242.9868 ng/ml
Hydrocodone	2.971	563234	∞	41.2	881.70	156747	249.6923 ng/ml
Hydromorphone	1.561	366047	1627.05	78.4	1579.80	55920	253.0445 ng/ml
Ketamine	4.006	1984334	102986.36	38.0	4782.95	381197	257.5176 ng/ml
Lamotrigine	4.234	151354	10533.51	78.6	15766.49	381197	208.7199 ng/ml
Lorazepam	5.728	312129	144.20	58.7	101.31	63757	125.9498 ng/ml
Meprobamate	4.868	232659	7495.18	26.0	1977.72	46431	236.7058 ng/ml
Methadone	5.634	1716995	67442.73	52.8	∞	329248	242.6831 ng/ml
Methamphetamine	3.168	1078995	∞	42.8	42445.87	197226	244.2342 ng/ml
Metoprolol	4.286	379311	227671.18	96.1	8341.75	968452	249.8166 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	2733515	∞	49.6	9796.15	398301	228.1665 ng/ml
Mitragynine	5.187	290825	51224.75	39.4	11093.29	329248	251.5826 ng/ml
Morphine	1.206	57658	6637.64	21.4	185.76	2539	259.9225 ng/ml
Norbuprenorphine	4.949	5237	99.02	79.6	402.37	9963	24.9679 ng/ml
Nordiazepam	5.881	862287	15788.88	56.3	4401.74	112774	256.4849 ng/ml
Norfentanyl	4.040	324008	24387.80	37.1	1387.86	539815	25.8359 ng/ml
Norhydrocodone	3.019	39977	823.75	40.0	394.98	39786	246.5224 ng/ml
Noroxycodone	2.856	361075	1631.89	48.3	581.08	44697	257.9835 ng/ml
O-desmethyl-tramadol	3.328	4878942	165939.24	6.0	16501.38	1061404	252.5631 ng/ml
Oxazepam	5.738	693872	∞	70.1	8798.24	209779	237.4045 ng/ml
Oxycodone	2.780	1070211	14367.06	31.5	3363.95	205189	249.0632 ng/ml
Oxymorphone	1.363	232169	226.24	47.4	1792.71	34441	254.7059 ng/ml
Phentermine	3.731	425364	10588.19	2.4	301.45	253866	228.7709 ng/ml
Promethazine	5.514	1884575	102140.34	30.2	43818.73	349006	243.9268 ng/ml
Quetiapine	5.517	1522003	5428.10	59.7	6750.58	89651	248.0068 ng/ml
Sertraline	5.764	499009	4169.41	90.7	3493.27	85572	247.5912 ng/ml
Temazepam	5.805	2356720	578.51	30.3	15324.91	523896	251.3161 ng/ml
Tramadol	4.206	4331485	7171.61	3.4	1797.53	968452	257.6701 ng/ml
Trazodone	5.072	2037085	164975.59	78.6	87165.46	325591	250.6917 ng/ml
Venlafaxine	5.000	3379465	166817.23	36.3	2229.68	726716	245.6927 ng/ml
Zolpidem	4.844	4877720	207161.57	30.6	107421.55	982726	256.7844 ng/ml

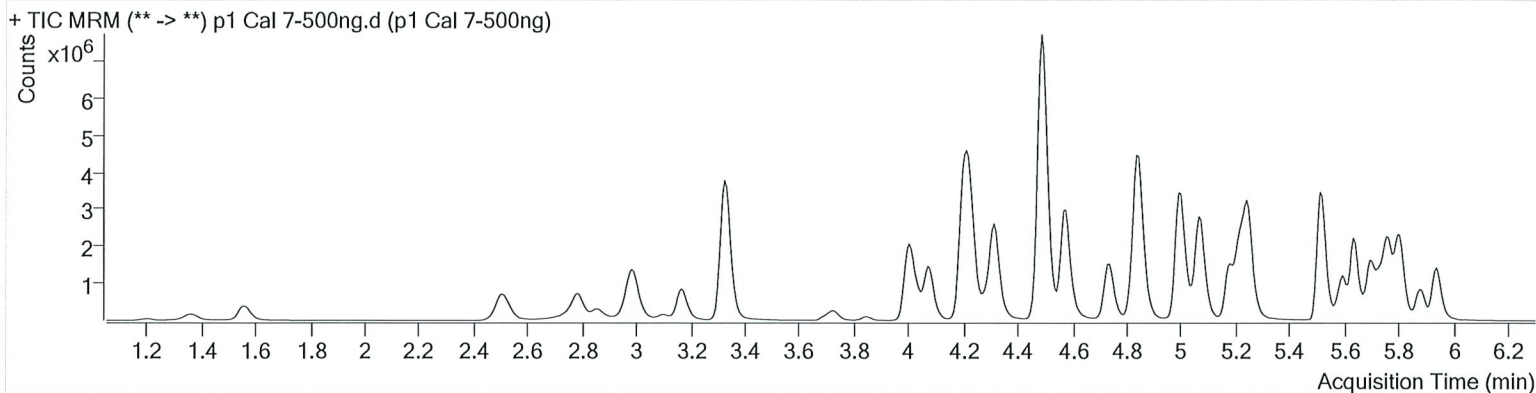
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 7-500ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-B12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 4:06:43 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.096	91381	3077.41	71.0	3992.92	38070	50.6803 ng/ml
7-aminoclonazepam	4.231	517326	9399.22	84.5	130.52	55122	427.7245 ng/ml
a-hydroxyalprazolam	5.673	185368	307.73	66.2	∞	22878	458.6872 ng/ml
alpha-PVP	4.317	3929660	138165.59	49.9	60467.97	354140	499.3361 ng/ml
Alprazolam	5.756	1886070	1992.01	101.5	1759.94	92172	510.3924 ng/ml
Amphetamine	2.994	2112715	25764.86	53.3	70609.72	73732	359.5898 ng/ml
Benzoylcegonine	3.847	171747	7892.46	7.7	1052.40	13115	540.7557 ng/ml
Buprenorphine	5.740	87843	∞	15.8	55980.78	70434	47.1631 ng/ml
Bupropion	4.739	2459203	251047.37	57.9	17380.58	176433	509.8121 ng/ml
Carisoprodol	5.705	1085654	617.16	53.6	629.59	115788	474.0937 ng/ml
Citalopram	5.175	2059063	716.01	41.6	1684.92	192119	494.5409 ng/ml
Clonazepam	5.586	1079589	25102.25	32.8	72123.76	49805	440.8566 ng/ml
Cocaine	4.223	3983832	148922.50	41.9	111037.45	595788	497.7209 ng/ml
Codeine	2.529	342224	359.02	101.1	2422.57	35115	463.3163 ng/ml
Cyclobenzaprine	5.603	1260432	∞	10.3	∞	89557	511.6405 ng/ml
Dextromethorphan	5.225	914390	12857.60	79.0	3521.12	84978	499.3324 ng/ml
Dextrorphan	4.073	1037323	19512.29	211.0	3052.30	283662	493.3318 ng/ml
Diazepam	5.941	1693534	1398.44	86.6	1010.01	168658	489.8056 ng/ml
Dihydrocodeine	2.501	1083834	63355.93	67.3	209646.55	167527	405.6559 ng/ml
Diphenhydramine	5.252	4324774	6846.76	33.1	4064.34	652460	490.5704 ng/ml
Doxylamine	4.487	10082829	600448.48	96.2	632598.05	900152	538.3717 ng/ml
EDDP	5.217	2198640	2917.16	42.7	1223.09	251456	499.2907 ng/ml
Fentanyl	5.046	132481	9263.21	67.0	∞	144660	51.1025 ng/ml
Fluoxetine	5.695	1266366	1578.40	8.8	9497.88	109374	496.4154 ng/ml
Hydrocodone	2.971	1046118	∞	41.8	∞	150347	484.0241 ng/ml
Hydromorphone	1.561	685460	1534.55	78.7	1469.50	54218	489.1364 ng/ml
Ketamine	4.006	3564306	316654.18	38.1	45805.28	365508	483.1451 ng/ml
Lamotrigine	4.234	211434	∞	80.6	5850.75	365508	304.9190 ng/ml
Lorazepam	5.728	367236	∞	56.6	2443.98	49805	190.7294 ng/ml
Meprobamate	4.868	332592	225.89	26.0	8279.06	32281	487.2728 ng/ml
Methadone	5.634	2820723	3257.22	51.9	95781.50	261335	502.1864 ng/ml
Methamphetamine	3.168	1719708	2603.12	42.9	28300.25	168119	458.6771 ng/ml
Metoprolol	4.286	634625	∞	96.6	25547.85	899591	450.3792 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	5042875	157293.66	49.4	29172.27	354140	473.8979 ng/ml
Mitragynine	5.180	460677	46196.85	38.7	311854.41	261335	502.5688 ng/ml
Morphine	1.206	102631	669.02	21.9	1223.30	2376	494.6154 ng/ml
Norbuprenorphine	4.949	8922	545.66	77.6	332.79	8351	50.9891 ng/ml
Nordiazepam	5.881	1238611	∞	56.5	27164.04	87869	473.4263 ng/ml
Norfentanyl	4.040	628056	60299.14	37.4	2594.30	477296	56.6060 ng/ml
Norhydrocodone	3.019	85391	1795.40	41.8	613.83	38921	521.4960 ng/ml
Noroxycodone	2.856	638560	1517.57	48.8	429.22	43085	473.6978 ng/ml
O-desmethyl-tramadol	3.328	8790587	198784.73	6.0	2050.33	960545	503.0383 ng/ml
Oxazepam	5.731	742641	5729.30	69.7	∞	113947	468.7170 ng/ml
Oxycodone	2.780	2019847	5505.47	31.7	2064.10	199397	484.1336 ng/ml
Oxymorphone	1.363	429255	∞	48.2	769.54	33719	481.3701 ng/ml
Phentermine	3.731	699906	5224.62	2.1	∞	227048	421.9545 ng/ml
Promethazine	5.514	2746775	3952.22	29.8	1833.08	254610	487.0890 ng/ml
Quetiapine	5.517	2820092	3390.48	59.1	47018.19	89531	460.6848 ng/ml
Sertraline	5.770	596676	17616.15	90.4	20291.53	51096	495.4892 ng/ml
Temazepam	5.805	3617696	69897.65	30.2	∞	411936	490.9391 ng/ml
Tramadol	4.199	7460121	33823.97	3.3	3988.70	899591	478.7308 ng/ml
Trazodone	5.065	3983700	1910.63	78.0	200204.02	299082	533.6218 ng/ml
Venlafaxine	4.993	6168942	7848.16	35.9	2796.80	656021	496.5152 ng/ml
Zolpidem	4.837	8938096	3806.87	29.9	2087.41	949321	487.8385 ng/ml



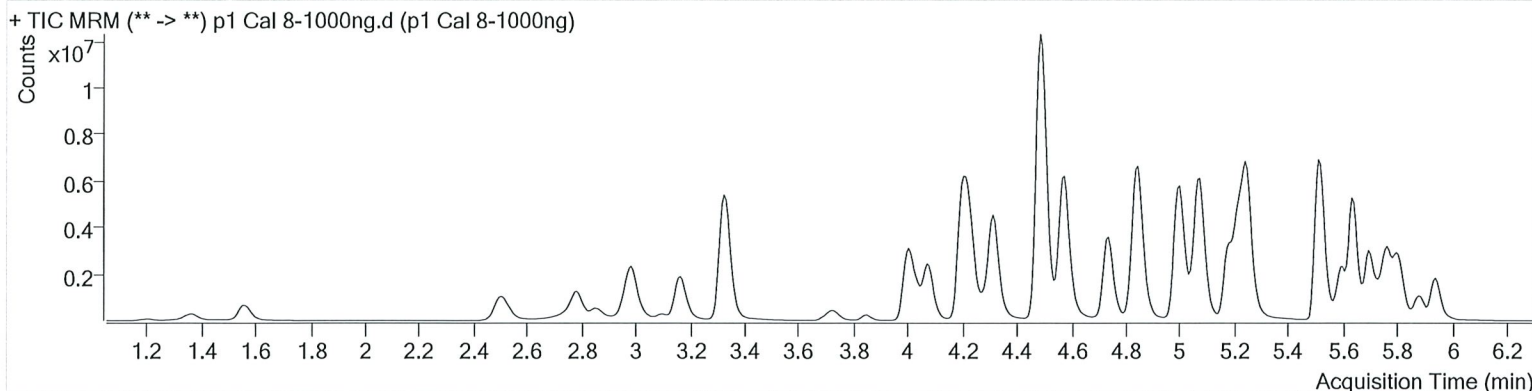
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2019\AM 28\121819 MDQ P1 wk1st 3891 TS\QuantResults\MDQ P1 TS.batch.bin  
**Calibration Last Update** 12/19/2019 10:25:23 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 8-1000ng
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-A12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/18/2019 4:17:19 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.089	165680	5387.15	71.2	7004.14	34764	100.6547 ng/ml
7-aminoclonazepam	4.237	489361	∞	83.7	∞	26799	833.5368 ng/ml
a-hydroxyalprazolam	5.673	220124	918.93	66.3	∞	15007	831.1438 ng/ml
alpha-PVP	4.317	7460526	398123.24	50.2	1742.83	333344	1007.0463 ng/ml
Alprazolam	5.756	2392701	543.11	103.1	809.72	61236	975.3415 ng/ml
Amphetamine	2.994	3819973	44475.21	52.4	56865.90	85181	563.7589 ng/ml
Benzoylcegonine	3.847	415767	13251.63	7.6	1142.87	13538	1267.8122 ng/ml
Buprenorphine	5.740	237143	23139.89	15.4	61964.72	95136	94.2639 ng/ml
Bupropion	4.739	6017089	11884.97	57.3	131045.53	224371	981.4926 ng/ml
Carisoprodol	5.712	1141453	32933.30	53.1	2029.91	54835	1052.9380 ng/ml
Citalopram	5.175	4590272	4944.01	40.5	3972.65	209863	1009.2674 ng/ml
Clonazepam	5.580	1099307	81189.55	32.8	10292.81	34045	657.1903 ng/ml
Cocaine	4.223	6194535	468572.09	42.6	131898.37	457990	1006.5784 ng/ml
Codeine	2.529	543660	5815.41	101.8	76648.59	29529	876.2540 ng/ml
Cyclobenzaprine	5.603	3676235	19848.19	10.3	525.10	129811	1029.5471 ng/ml
Dextromethorphan	5.225	2011987	231216.62	79.2	∞	93451	999.3244 ng/ml
Dextrorphan	4.073	1941197	57204.37	211.3	143411.74	258789	1011.8626 ng/ml
Diazepam	5.941	2426873	∞	87.1	∞	126727	934.5706 ng/ml
Dihydrocodeine	2.501	1713297	23649.18	68.5	133748.41	163492	657.8434 ng/ml
Diphenhydramine	5.252	10095731	260870.84	33.5	18538.00	729753	1023.2803 ng/ml
Doxylamine	4.487	17905783	568235.17	96.6	987317.83	934430	922.5420 ng/ml
EDDP	5.217	5306492	2537.32	41.6	25019.24	292280	1036.8267 ng/ml
Fentanyl	5.046	436709	29410.43	72.4	15670.43	257761	94.5632 ng/ml
Fluoxetine	5.695	3871448	1574.86	8.8	2370.52	163763	1013.4575 ng/ml
Hydrocodone	2.971	1962389	∞	41.5	∞	149128	915.8868 ng/ml
Ketamorphone	1.561	1239670	1274.00	78.2	1237.33	47970	1000.2776 ng/ml
Ketamine	4.006	6047401	134476.32	37.6	∞	333500	899.1246 ng/ml
Lamotrigine	4.241	247740	13126.47	78.1	17358.89	333500	392.0839 ng/ml
Lorazepam	5.728	359517	∞	58.1	1880.44	34045	274.0421 ng/ml
Meprobamate	4.875	424021	95881.93	26.2	13189.49	17735	1131.4609 ng/ml
Methadone	5.634	7479644	271094.75	52.4	47471.04	345119	1008.2593 ng/ml
Methamphetamine	3.168	4213254	192071.97	42.6	606952.71	250734	754.9730 ng/ml
Metoprolol	4.286	969259	296888.50	97.2	∞	824947	750.4486 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.576	11321933	348703.18	49.7	∞	333344	1130.9608 ng/ml
Mitragynine	5.187	1205678	73268.00	39.8	65282.18	345119	996.4869 ng/ml
Morphine	1.206	180498	6619.87	21.5	2145.59	2118	976.3259 ng/ml
Norbuprenorphine	4.949	28282	856.83	79.0	1625.20	14514	93.2056 ng/ml
Nordiazepam	5.881	1625879	14406.50	57.4	26053.47	60063	909.7906 ng/ml
Norfentanyl	4.040	1272102	139504.41	37.3	5797.99	403792	135.4844 ng/ml
Norhydrocodone	3.019	160460	349.48	40.0	1357.90	34095	1102.4405 ng/ml
Noroxycodone	2.856	1122243	1702.05	48.1	1128.58	39039	919.2305 ng/ml
O-desmethyl-tramadol	3.328	14426525	542489.17	6.0	58446.20	800171	991.2138 ng/ml
Oxazepam	5.731	627960	7058.45	71.1	2164.26	51820	872.3309 ng/ml
Oxycodone	2.780	3741425	9136.62	31.6	∞	192100	931.2448 ng/ml
Oxymorphone	1.363	768481	∞	47.5	1923.55	30655	948.3498 ng/ml
Phentermine	3.724	1307663	7677.00	2.1	804.33	269180	665.6929 ng/ml
Promethazine	5.514	8386099	38992.28	29.1	364135.66	370724	1021.0677 ng/ml
Quetiapine	5.517	4547159	2405.34	58.3	56128.29	99901	665.9842 ng/ml
Sertraline	5.770	1511347	240.86	90.9	33261.85	63455	1010.2821 ng/ml
Temazepam	5.805	4721848	344.48	29.8	210.02	256719	1028.5504 ng/ml
Tramadol	4.199	11899133	26243.89	3.3	3196.54	824947	833.5279 ng/ml
Trazodone	5.072	9391192	∞	78.2	363526.87	363225	1035.7469 ng/ml
Venlafaxine	5.000	11591378	202340.05	35.8	44561.25	604498	1012.1509 ng/ml
Zolpidem	4.844	14414432	∞	30.8	60721.88	878952	850.3350 ng/ml