

reviewed 9/26/19 *Buylee*

9/23/2019

B

**Worklist: 3703**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-3380	1	164833	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3502	1	164834	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3701	1	164835	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3790	2	164836	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2490	1	164837	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2519	1	164838	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2520	1	164839	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2521	1	164840	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2533	1	164841	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2534	1	164842	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2552	1	164843	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2562	1	164844	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2569	1	164845	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2572	1	164846	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2594	1	164847	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2604	1	164848	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2605	1	164849	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2617	1	164850	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2752	1	164851	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2777	1	164852	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2795	1	164853	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

TS

Extraction Date: 09/23/19  
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:** 445283-2  
**LCMS-QQQ ID:** 069901

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

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 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: 3** 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\092319 MDQ P1 and P2 TS*  
Batch Name: *MDQ P1 wklst 3703*
- 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: 7-aminoclonazepam 5-250, Amphetamine 5-500, Dihydrocodeine 5-500, Lamotrigine 5-250, Lorazepam 10-1000, Mirtazapine 25-1000, Norhydrocodone 10-1000, Norbuprenorphine 10-100, Oxazepam 25-1000 (qualitative only, Codeine: Cal 4 dropped due to split peak, Dihydrocodeine: Cal 4 and 8 dropped due to split peak.*

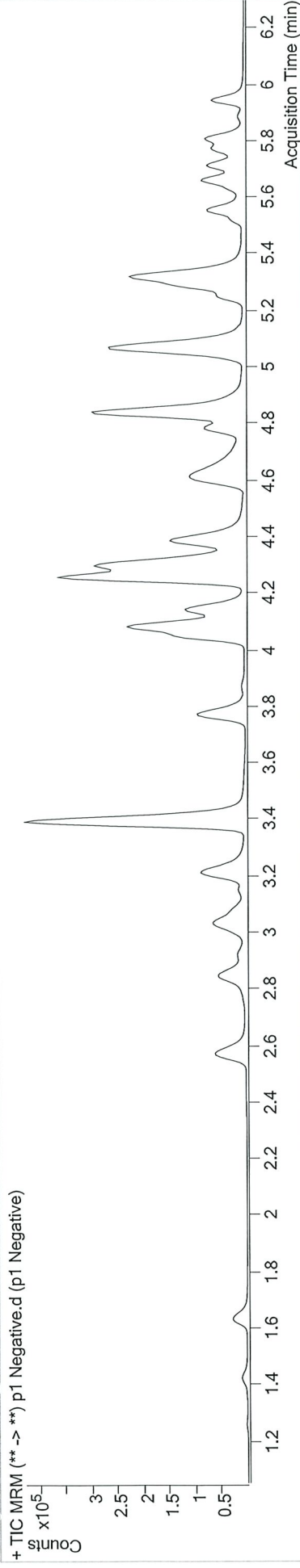


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
Calibration Last Update 9/24/2019 4:19:56 PM

<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>	
<b>Sample Position</b>	P1-D11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 8:50:04 PM		

## Sample Chromatogram



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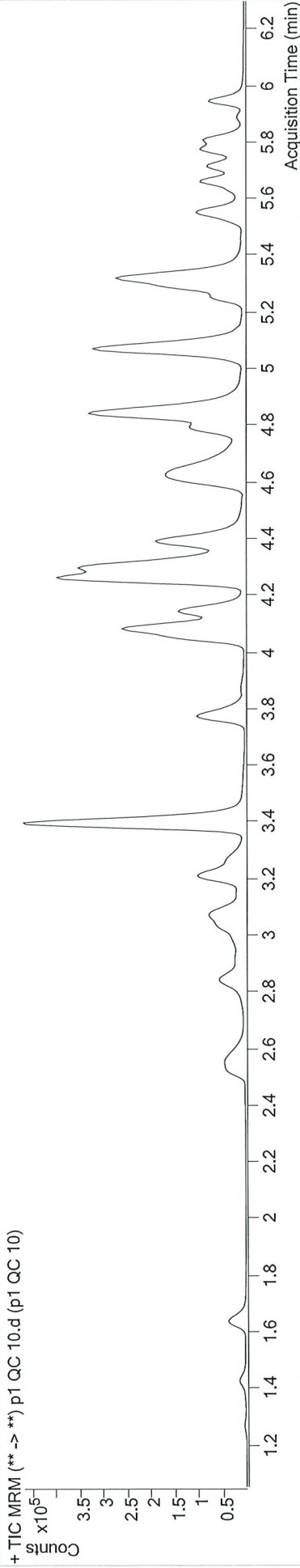


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Calibration Last Update** 9/24/2019 4:19:56 PM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 10
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	
<b>Sample Position</b>	P1-H11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 7:04:56 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1322	2965.33	67.6	1774.37	25735	0.9819 ng/ml
7-aminoclonazepam	4.278	17236	1022.60	77.7	3952.78	69496	9.7576 ng/ml
a-hydroxyalprazolam	5.700	677	41.93	84.0	324.43	6158	8.6431 ng/ml
alpha-PVP	4.404	88609	3039.49	48.0	317.86	388472	9.6918 ng/ml
Alprazolam	5.777	31725	357.94	110.5	487.06	82960	10.3859 ng/ml
Amphetamine	3.081	104783	1780.69	53.0	1400.84	88934	10.6103 ng/ml
Benzylecgonine	3.900	2622	288.15	8.6	201.69	11334	10.0474 ng/ml
Buprenorphine	5.699	878	53.17	14.7	38.68	31514	1.0731 ng/ml
Bupropion	4.813	70119	418.66	59.6	5332.79	207658	9.8807 ng/ml
Carisoprodol	5.726	15478	494.85	51.7	52.12	68189	10.1687 ng/ml
Citalopram	5.256	28503	189.82	43.1	∞	132265	9.8498 ng/ml
Clonazepam	5.614	3983	492.89	31.5	1238.20	6941	10.7535 ng/ml
Cocaine	4.304	85692	9356.72	46.5	4769.87	702915	9.9017 ng/ml
Codeine	2.610	10348	165.16	109.6	932.74	44080	10.0024 ng/ml
Cyclobenzaprine	5.644	12071	1701.60	11.0	150.71	54705	10.1666 ng/ml
Dextromethorphan	5.312	13458	59.99	87.8	3779.03	59074	10.3261 ng/ml
Dextroproprian	4.154	18541	46361.63	215.2	893.33	259459	10.0446 ng/ml
Diazepam	5.955	22198	156.45	88.2	437.43	110165	10.0778 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	29086	59.34	61.3	881.73	154909	10.3709 ng/ml
Diphenhydramine	5.333	62054	∞	29.8	1895.88	488927	10.1829 ng/ml
Doxylamine	4.635	161124	1063.21	99.7	293.99	626256	9.6960 ng/ml
EDDP	5.298	50124	2017.99	42.5	2553.19	288953	10.0552 ng/ml
Fentanyl	5.106	1384	209.14	67.2	519.04	73908	1.1055 ng/ml
Fluoxetine	5.722	13919	257.72	8.1	3192.49	51381	10.9217 ng/ml
Hydrocodone	3.065	21674	25.54	35.2	33.05	144954	10.4097 ng/ml
Hydromorphone	1.648	21183	547.80	75.1	293.62	80329	9.8217 ng/ml
Ketamine	4.074	79247	3188.56	37.8	292.21	323709	10.2079 ng/ml
Lamotrigine	4.302	6291	3200.08	80.7	2071.02	323709	10.8729 ng/ml
Lorazepam	5.748	1276	14.37	52.5	9.60 <b>Low</b>	6941	11.9168 ng/ml
Meprobamate	4.922	3901	702.15	26.2	66.96	24970	9.6290 ng/ml
Methadone	5.668	23466	1247.55	56.6	583.70	107046	10.0470 ng/ml
Methamphetamine	3.275	59584	944.57	43.6	161.24	296793	10.2480 ng/ml
Metoprolol	4.354	18634	7345.78	95.6	∞	835340	10.7169 ng/ml
Mirtazapine	4.650	60206	1522.54	51.6	894.65	388472	18.6100 ng/ml
Mitragynine	5.234	4713	7672.39	38.6	6146.64	107046	10.4553 ng/ml
Morphine	1.280	4840	667.27	20.0	277.63	5276	10.1874 ng/ml
Nordiazepam	5.901	5025	16048.16	53.1	242.46	15192	10.3713 ng/ml
Norfentanyl	4.115	10997	218.56	36.0	177.21	520221	0.9627 ng/ml
Norhydrocodone	3.100	934	46.91	19.2	55.57	35647	10.9004 ng/ml
Noroxycodone	2.943	15127	296.14	48.0	328.74	40762	9.8582 ng/ml
O-desmethyl-tramadol	3.401	195480	4930.72	5.8	623.46	1037104	10.1884 ng/ml
Oxazepam	5.758	1696	6.85 <b>Low</b>	71.8	5.93 <b>Low</b>	9960	9.7904 ng/ml
Oxycodone	2.868	43044	1074.14	29.2	971.50	190425	10.2832 ng/ml
Oxymorphone	1.430	10607	336.62	46.9	187.04	36271	9.7733 ng/ml
Phentermine	3.812	23201	742.00	2.3	30.09	286751	10.0588 ng/ml
Promethazine	5.562	31230	8367.25	31.2	141.80	136274	10.6658 ng/ml
Quetiapine	5.544	46973	6935.34	55.8	∞	55313	10.7890 ng/ml
Sertraline	5.791	9870	424.34	100.1	648.97	40960	10.6604 ng/ml
Temazepam	5.818	18495	266.95	37.5	13.04	112055	9.7066 ng/ml
Tramadol	4.273	177399	418.93	2.9	67.75	835340	10.3994 ng/ml
Trazodone	5.085	33165	2464.93	75.7	12381.99	120498	10.5640 ng/ml
Venlafaxine	5.074	103522	9375.13	35.7	136.39	604573	9.8413 ng/ml
Zolpidem	4.864	150691	12354.02	34.6	4174.41	743318	10.0644 ng/ml

outside curve range. D

outside curve range. D

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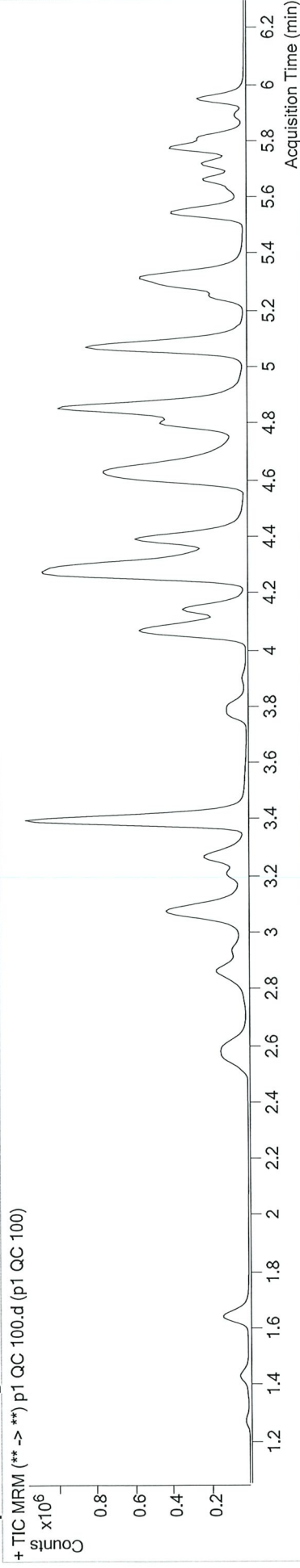
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Calibration Last Update** 9/24/2019 4:19:56 PM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 092319.m  
**Sample Position** P1-G11  
**Injection Volume** 2  
**Acq. Date-Time** 9/23/2019 7:25:59 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	12985	1432.25	68.3	463.97	25559	10.0776 ng/ml
7-aminoclonazepam	147613	2155.06	80.5	22834.28	69411	102.3864 ng/ml
a-hydroxyalprazolam	7797	394.70	88.8	955.85	6255	93.3471 ng/ml
alpha-PVP	843832	∞	48.5	14343.38	371865	98.5522 ng/ml
Alprazolam	304590	754.88	109.8	1590.01	79305	93.7594 ng/ml
Amphetamine	843795	55.88	52.5	11955.00	80199	107.9790 ng/ml
Benzoylcegonine	23308	4101.62	7.4	1280.60	12088	99.8490 ng/ml
Buprenorphine	6684	844.06	16.3	∞	26475	10.1881 ng/ml
Bupropion	606757	63545.98	60.4	1788.78	187221	103.0475 ng/ml
Carisoprodol	149408	6811.92	54.6	192.33	68759	99.8073 ng/ml
Citalopram	235462	534.22	42.4	9758.34	112477	97.6591 ng/ml
Clonazepam	41897	942.30	28.4	6975.78	7796	105.7243 ng/ml
Cocaine	814852	36047.80	47.0	48011.69	674584	93.5412 ng/ml
Codeine	97800	495.76	106.5	5669.45	42987	104.6540 ng/ml
Cyclobenzaprine	101734	384.70	10.4	337.26	47719	97.3319 ng/ml
Dextromethorphan	107810	310.86	83.3	3853.59	51471	98.9839 ng/ml
Dextropropriphan	171909	989.71	214.9	1331.09	244712	103.8136 ng/ml
Diazepam	222620	3925.20	88.0	1619.70	113597	101.8556 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	279408	17275.88	64.1	12053.52	158458	104.9286 ng/ml
Diphenhydramine	5.333	504490	437.33	29.5	∞	411926	99.5954 ng/ml
Doxylamine	4.621	1530027	2568.51	97.6	2800.15	591130	101.0974 ng/ml
EDDP	5.298	426047	386.84	43.7	63669.87	251316	100.6752 ng/ml
Fentanyl	5.106	10076	239.14	76.4	27367.51	60564	9.3531 ng/ml
Fluoxetine	5.722	109616	20256.85	8.5	2228.44	45336	99.5972 ng/ml
Hydrocodone	3.065	213413	∞	35.2	78.38	146000	105.3737 ng/ml
Hydromorphone	1.648	201406	1038.31	75.6	459.05	78567	98.2340 ng/ml
Ketamine	4.067	774058	1347.54	37.9	6125.55	332651	104.3826 ng/ml
Lamotrigine	4.302	56392	3734.93	82.5	23274.22	332651	105.1451 ng/ml
Lorazepam	5.748	14102	330.75	48.9	65.90	7796	89.1112 ng/ml
Meprobamate	4.922	38630	2732.31	26.6	3932.99	25720	98.6182 ng/ml
Methadone	5.668	196205	10122.89	56.7	8976.15	91744	97.4836 ng/ml
Methamphetamine	3.275	510715	6996.48	44.2	3588.96	271096	106.3652 ng/ml
Metoprolol	4.354	159460	49267.08	97.1	∞	832301	105.2106 ng/ml
Mirtazapine	4.650	483645	∞	51.9	∞	371865	80.7471 ng/ml
Mitragynine	5.234	36393	33824.01	36.4	16154.17	91744	88.9075 ng/ml
Morphine	1.280	43026	387.73	20.1	308.53	5103	100.1610 ng/ml
Norbuprenorphine	5.024	166	15.29	77.1	12.39	720	8.9351 ng/ml
Nordiazepam	5.895	50523	477.69	56.8	2362.46	16570	98.4104 ng/ml
Norfentanyl	4.115	105844	24524.30	35.9	1116.45	494059	9.5940 ng/ml
Norhydrocodone	3.100	10439	184.65	22.9	135.37	34299	96.8108 ng/ml
Noroxycodone	2.943	139606	564.74	49.4	6699.40	38464	101.7889 ng/ml
O-desmethyl-tramadol	3.401	1927667	72838.48	5.9	12032.63	1061759	101.0818 ng/ml
Oxazepam	5.758	16221	187.08	80.6	100.08	11160	99.0228 ng/ml
Oxycodone	2.868	429372	3304.82	30.4	2289.52	197942	102.6916 ng/ml
Oxymorphone	1.430	93754	1078.98	46.9	545.37	34191	95.1376 ng/ml
Phentermine	3.812	198136	6121.21	2.0	42.53	258542	110.6281 ng/ml
Promethazine	5.562	241948	∞	32.2	2646.65	115858	96.1426 ng/ml
Quetiapine	5.537	403158	14668.34	55.0	5821.32	49913	109.1864 ng/ml
Sertraline	5.791	74261	343.48	91.0	555.23	33151	98.8170 ng/ml
Temazepam	5.818	201610	2523.21	32.5	172.07	117624	104.1449 ng/ml
Tramadol	4.273	1643534	497.21	3.4	410.37	832301	105.4333 ng/ml
Trazodone	5.085	269169	1769.93	75.1	29295.91	104192	109.2502 ng/ml
Venlafaxine	5.074	984563	4844.62	35.3	3045.95	580409	100.1966 ng/ml
Zolpidem	4.864	1569584	76040.69	32.9	28209.29	779604	104.3316 ng/ml

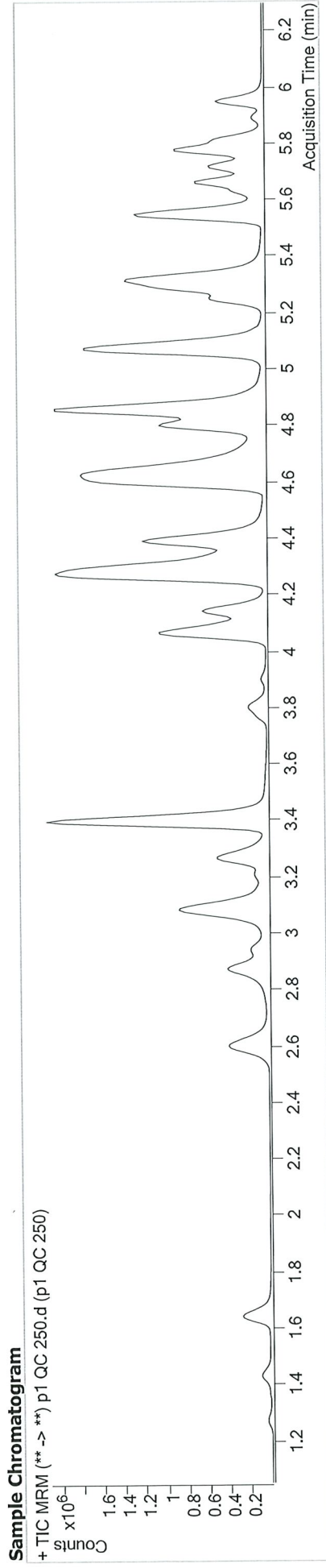
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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Calibration Last Update** 9/24/2019 4:19:56 PM

<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>	
<b>Sample Position</b>	P1-F11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 7:47:01 PM		
<b>Sample Info.</b>			



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	29842	∞	71.1	71155.32	23394	25.3661 ng/ml
7-aminoclonazepam	4.271	283805	16760.11	79.3	27974.47	59815	231.4734 ng/ml
a-hydroxyalprazolam	5.700	18284	303.14	95.7	694.49	5688	239.9931 ng/ml
alpha-PVP	4.398	1973131	118379.11	48.8	2185.93	346787	247.4688 ng/ml
Alprazolam	5.777	675291	2543.95	107.0	2405.26	67953	240.7415 ng/ml
Amphetamine	3.095	1710328	∞	52.1	41559.40	71344	248.1685 ng/ml
Benzoyllecgonine	3.900	58730	3469.56	7.4	220.69	11933	258.2638 ng/ml
Buprenorphine	5.699	22898	1291.94	15.2	3152.38	36439	25.4440 ng/ml
Bupropion	4.807	1508443	203447.81	61.0	99694.49	184000	262.1299 ng/ml
Carisoprodol	5.726	321042	36484.56	53.6	1507.44	60279	245.0499 ng/ml
Citalopram	5.256	770458	302.13	42.0	11013.69	142650	252.3184 ng/ml
Clonazepam	5.614	99523	13093.83	29.5	3638.22	7994	245.6838 ng/ml
Cocaine	4.304	1831706	3629826.51	46.7	188446.04	591373	239.0556 ng/ml
Codeine	2.623	204242	9470.57	104.3	528.87	37435	252.2111 ng/ml
Cyclobenzaprine	5.644	447272	28107.79	10.1	∞	80880	252.3077 ng/ml
Dextromethorphan	5.306	371175	32721.40	82.2	25953.65	69961	251.4751 ng/ml
Dextroproprian	4.147	399754	11753.18	214.1	61636.67	227980	259.9828 ng/ml
Diazepam	5.955	481134	11800.30	88.1	4883.02	98994	253.2580 ng/ml

TS





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	601675	764.48	66.0	24196.53	149230	241.0799 ng/ml
Diphenhydramine	5.333	1580798	125281.98	30.7	15214.61	512799	250.9230 ng/ml
Doxylamine	4.608	3913517	4203.23	96.9	55694.69	610637	250.9059 ng/ml
EDDP	5.298	1142708	28241.77	44.4	41482.88	273542	248.4850 ng/ml
Fentanyl	5.106	43176	89506.16	75.8	259.19	96461	25.0634 ng/ml
Fluoxetine	5.722	444508	49001.21	8.4	239.45	72530	252.8647 ng/ml
Hydrocodone	3.058	482700	210.54	36.6	314.14	140238	248.6860 ng/ml
Hydromorphone	1.648	429030	∞	82.0	∞	71458	230.4984 ng/ml
Ketamine	4.067	1769685	111503.08	38.1	1538.15	313646	254.3363 ng/ml
Lamotrigine	4.302	113019	∞	83.3	12503.86	313646	224.9979 ng/ml
Lorazepam	5.748	37176	838.94	49.8	171.36	7994	224.0852 ng/ml
Meprobamate	4.922	91197	363.55	25.7	2994.79	24752	242.9435 ng/ml
Methadone	5.668	727034	1423.25	54.9	22977.63	129179	256.4465 ng/ml
Methamphetamine	3.275	1146016	894.00	44.4	1998.76	254038	256.4011 ng/ml
Metoprolol	4.354	338264	466603.64	98.0	∞	737249	254.3799 ng/ml
Mirtazapine	4.643	1469326	171662.85	51.8	∞	346787	240.0143 ng/ml
Mitragynine	5.234	155862	27649.43	37.4	285136.92	129179	269.0802 ng/ml
Morphine	1.280	97242	1353.09	19.0	7274.95	4416	262.8922 ng/ml
Norbuprenorphine	5.024	541	40.75	77.7	24.39	1006	24.3161 ng/ml
Nordiazepam	5.895	117731	3004.31	56.3	1239.88	14571	261.3574 ng/ml
Norfentanyl	4.115	252557	49350.01	35.6	2767.62	462953	24.4030 ng/ml
Norhydrocodone	3.106	24420	206.09	23.9	217.35	30536	249.7989 ng/ml
Noroxycodone	2.950	310504	754.71	47.6	337.48	35071	249.1777 ng/ml
O-desmethyl-tramadol	3.401	4510996	175590.72	6.0	18039.53	980026	256.7960 ng/ml
Oxazepam	5.758	42715	270.66	73.4	∞	11668	252.5189 ng/ml
Oxycodone	2.874	1067763	40338.80	30.7	12024.64	191124	265.2185 ng/ml
Oxymorphone	1.430	222126	337.86	45.1	∞	31194	247.7269 ng/ml
Phentermine	3.812	432637	11083.80	2.1	619.98	242293	260.1706 ng/ml
Promethazine	5.562	1103674	1755.45	31.1	524.23	200203	253.5855 ng/ml
Quetiapine	5.537	1166770	∞	57.9	1749340.6	61964	255.5665 ng/ml
Sertraline	5.791	256826	11570.28	95.0	2951.16	47062	240.6790 ng/ml
Temazepam	5.818	469628	830.17	31.8	1419.18	109201	261.8440 ng/ml
Tramadol	4.274	3660300	358428.32	3.4	665.08	737249	266.6769 ng/ml
Trazodone	5.085	901464	163781.01	76.3	110918.34	150196	255.4106 ng/ml
Venlafaxine	5.074	2352130	97934.69	34.9	1259.89	551398	252.4246 ng/ml
Zolpidem	4.864	3743523	2573.69	31.7	57883.72	738042	263.5931 ng/ml

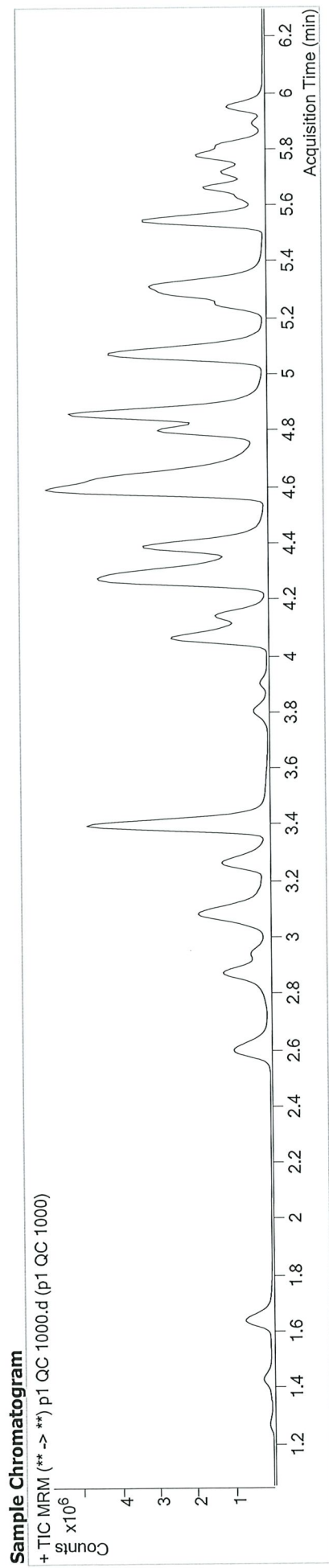
TS



# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 Calibration Last Update 9/24/2019 4:19:56 PM

Instrument Type	Falco QC	Data File	p1 QC 1000.d
Acq. Method	MDQ P1 Combined 092319.m	Sample Operator	p1 QC 1000
Sample Position	P1-E11	Comment	
Injection Volume	2		
Acq. Date-Time	9/23/2019 8:08:02 PM		
Sample Info.			



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	99816	3240.95	71.5	165761.82	18365	108.2124 ng/ml
7-aminoclonazepam	4.271	461932	36089.59	79.0	26305.59	39425	575.2336 ng/ml <i>outside curve range. TS</i>
a-hydroxyalprazolam	5.700	75514	887.79	87.9	2505.81	5643	997.6001 ng/ml
alpha-PVP	4.398	6168107	429928.14	49.2	558609.48	274431	978.2706 ng/ml
Alprazolam	5.777	1706189	1152.73	105.4	728.96	40658	1012.8399 ng/ml
Amphetamine	3.095	3931456	62628.90	51.7	97937.87	53927	758.0941 ng/ml <i>outside curve range. TS</i>
Benzoyllecgonine	3.900	245037	58326.15	7.4	3784.22	12031	1075.7277 ng/ml
Buprenorphine	5.699	42752	1124.87	15.5	∞	21611	80.2280 ng/ml
Bupropion	4.807	4526739	705104.92	60.4	98626.82	146139	993.0887 ng/ml
Carisoprodol	5.733	801670	35215.16	53.1	6636.93	36708	1005.7347 ng/ml
Citalopram	5.256	2017894	∞	41.9	∞	94894	994.0741 ng/ml
Clonazepam	5.614	355086	5551.33	29.3	∞	7476	939.0292 ng/ml
Cocaine	4.297	5097624	222010.79	46.4	154334.79	401590	978.1046 ng/ml
Codeine	2.623	551008	11472.80	102.5	1757.59	26910	949.0010 ng/ml
Cyclobenzaprine	5.637	1145299	223466.42	10.1	7642.61	49885	1047.1553 ng/ml
Dextromethorphan	5.306	901062	37937.26	81.2	70419.36	41661	1026.6896 ng/ml
Dextrophan	4.147	1053228	1156.93	213.0	10020.88	151934	1029.5153 ng/ml
Diazepam	5.955	1240192	8749.39	88.7	6174.74	67847	953.7035 ng/ml



# AM #28 Multi-Drug Quant. Results

*Outside curve range. TS*

Name	RT	Resp.	S/N	Ratio	S/N	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	1638913	51657.29	68.0	48871.06	135364	725.7474	ng/ml
Diphenhydramine	5.327	4097282	179296.59	30.8	19421.32	333800	999.5858	ng/ml
Doxylamine	4.594	13573999	276151.95	96.6	212848.18	524718	1013.9561	ng/ml
EDDP	5.291	3569115	128522.58	44.3	100188.83	213519	995.1125	ng/ml
Fentanyl	5.106	108990	7605.13	73.8	540.95	51686	117.8565	ng/ml
Fluoxetine	5.716	956523	∞	8.1	5730.04	38936	1014.4114	ng/ml
Hydrocodone	3.058	1552738	63.74	38.5	235.66	121967	920.9106	ng/ml
Hydromorphone	1.641	1396301	∞	77.0	∞	55802	961.6259	ng/ml
Ketamine	4.067	5258054	9382.65	37.7	11685.58	262133	906.3916	ng/ml
Lamotrigine	4.308	197694	50646.58	84.5	37630.85	262133	472.3684	ng/ml
Lorazepam	5.748	159890	6733.50	52.4	457.23	7476	1019.1246	ng/ml
Meprobamate	4.922	292553	25856.19	25.5	5939.54	19440	994.4936	ng/ml
Methadone	5.668	2007063	57076.04	55.8	132633.01	92412	989.4451	ng/ml
Methamphetamine	3.269	3074356	115992.60	44.5	32914.12	206238	850.0551	ng/ml
Metoprolol	4.354	812804	67702.02	98.7	∞	568499	796.3516	ng/ml
Mirtazapine	4.643	4138211	516052.85	51.3	273769.65	274431	828.0921	ng/ml
Mitragynine	5.234	414103	∞	37.3	19197.05	92412	997.5501	ng/ml
Morphine	1.273	254132	501.40	19.7	2931.62	3471	875.9966	ng/ml
Norbuprenorphine	5.024	1542	66.02	78.6	87.55	647	116.8620	ng/ml
Nordiazepam	5.895	366805	8078.41	56.3	858.97	11795	1006.8866	ng/ml
Norfentanyl	4.115	861706	294566.70	36.7	12577.67	353268	109.0506	ng/ml
Norhydrocodone	3.106	69024	275.19	22.8	541.97	20892	1023.1922	ng/ml
Noroxycodone	2.943	933671	∞	47.0	1157.32	28726	916.3917	ng/ml
O-desmethyl-tramadol	3.401	13022619	606886.26	6.1	45139.32	721775	1007.5797	ng/ml
Oxazepam	5.758	183669	268.49	76.7	∞	13295	958.5804	ng/ml
Oxycodone	2.874	3773349	10088.05	30.6	6097.66	176505	1016.1982	ng/ml
Oxymorphone	1.430	690258	∞	46.6	1752.87	25029	960.6473	ng/ml
Phentermine	3.812	1097732	1188.13	2.1	5409.24	195624	821.4997	ng/ml
Promethazine	5.562	2921661	∞	32.4	2713.55	132830	1011.3954	ng/ml
Quetiapine	5.537	3335431	88938.79	58.2	413496.78	47637	952.4126	ng/ml
Sertraline	5.791	455880	2457.83	93.0	15482.61	20846	964.3936	ng/ml
Temazepam	5.818	1520068	1848.03	31.3	1890.31	88878	1042.3805	ng/ml
Tramadol	4.273	9619063	363616.63	3.4	∞	568499	911.3717	ng/ml
Trazodone	5.092	2182839	765438.80	78.4	357884.96	113168	823.4782	ng/ml
Venlafaxine	5.074	7174552	7945.96	34.6	2874.16	419409	1013.1747	ng/ml
Zolpidem	4.864	11167615	311675.03	31.3	301194.82	625875	928.5074	ng/ml

*Outside curve range. TS*

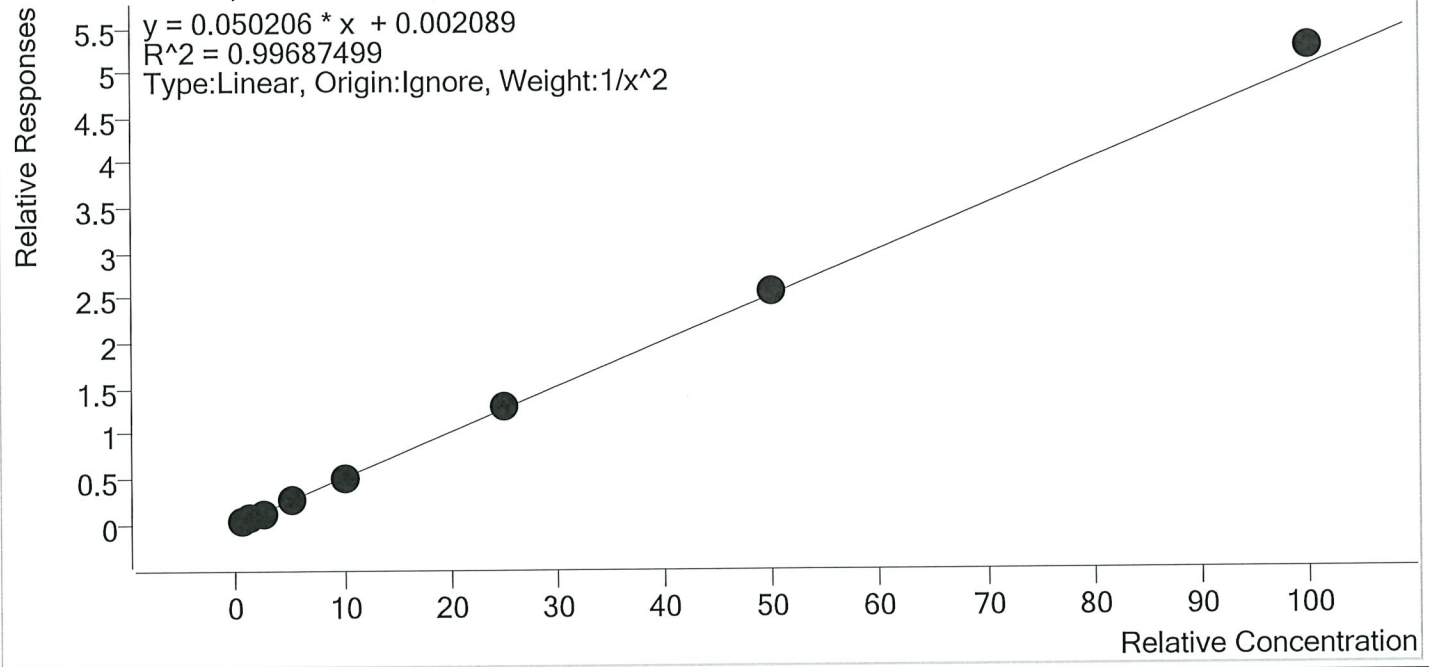
TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 Last Cal. Update 9/24/2019 4:19 PM  
 Analyst Name ISP\datastor  
 Analyte 6-MAM Internal Standard 6-MAM-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.7
p1 Cal 2- 10ng r	2	✓	1.0	1.0	103.1
p1 Cal 3 -25ng r	3	✓	2.5	2.2	88.7
p1 Cal 4-50ng	4	✓	5.0	4.9	99.0
p1 Cal 5-100ng	5	✓	10.0	10.1	100.6
p1 Cal 6-250ng	6	✓	25.0	25.3	101.3
p1 Cal 7-500ng	7	✓	50.0	51.2	102.4
p1 Cal 8-1000ng	8	✓	100.0	104.3	104.3

TS



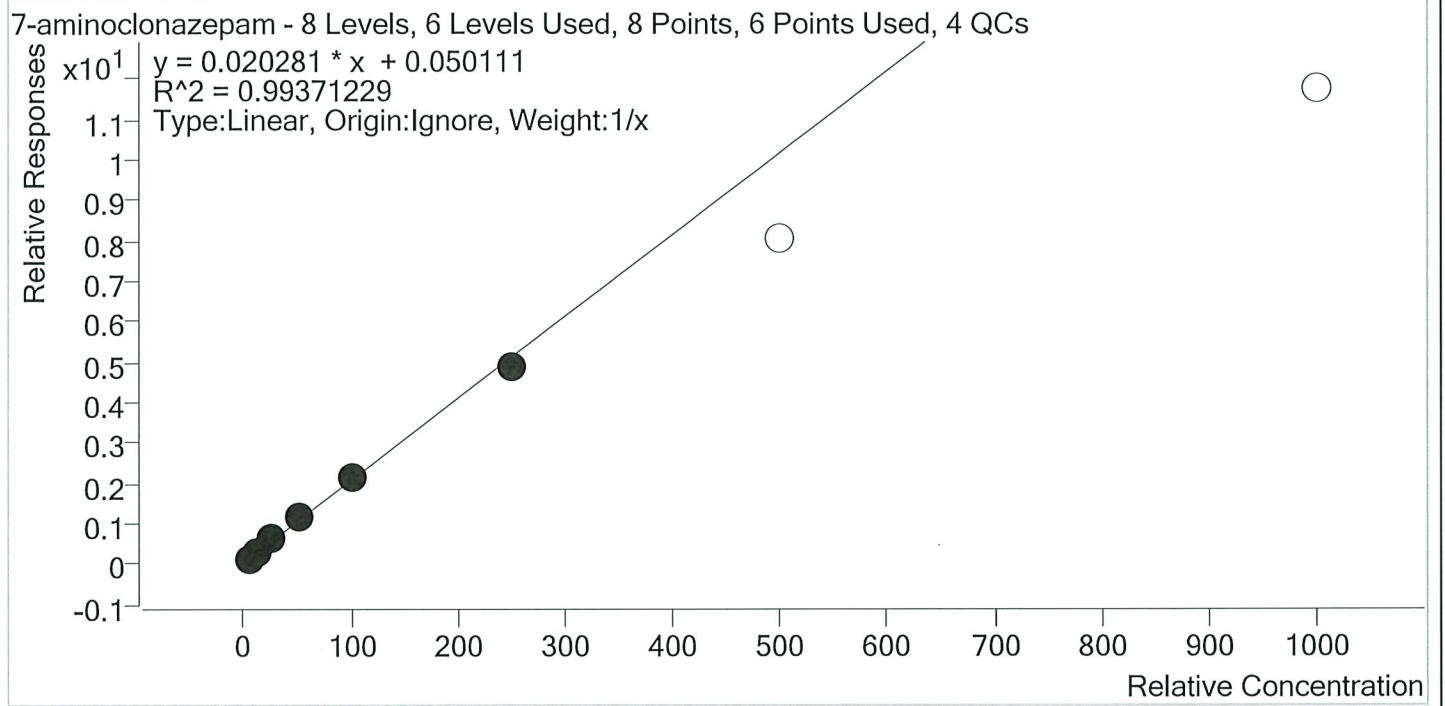
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin

**Last Cal. Update** 9/24/2019 4:19 PM

**Analyst Name** ISP\datastor

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



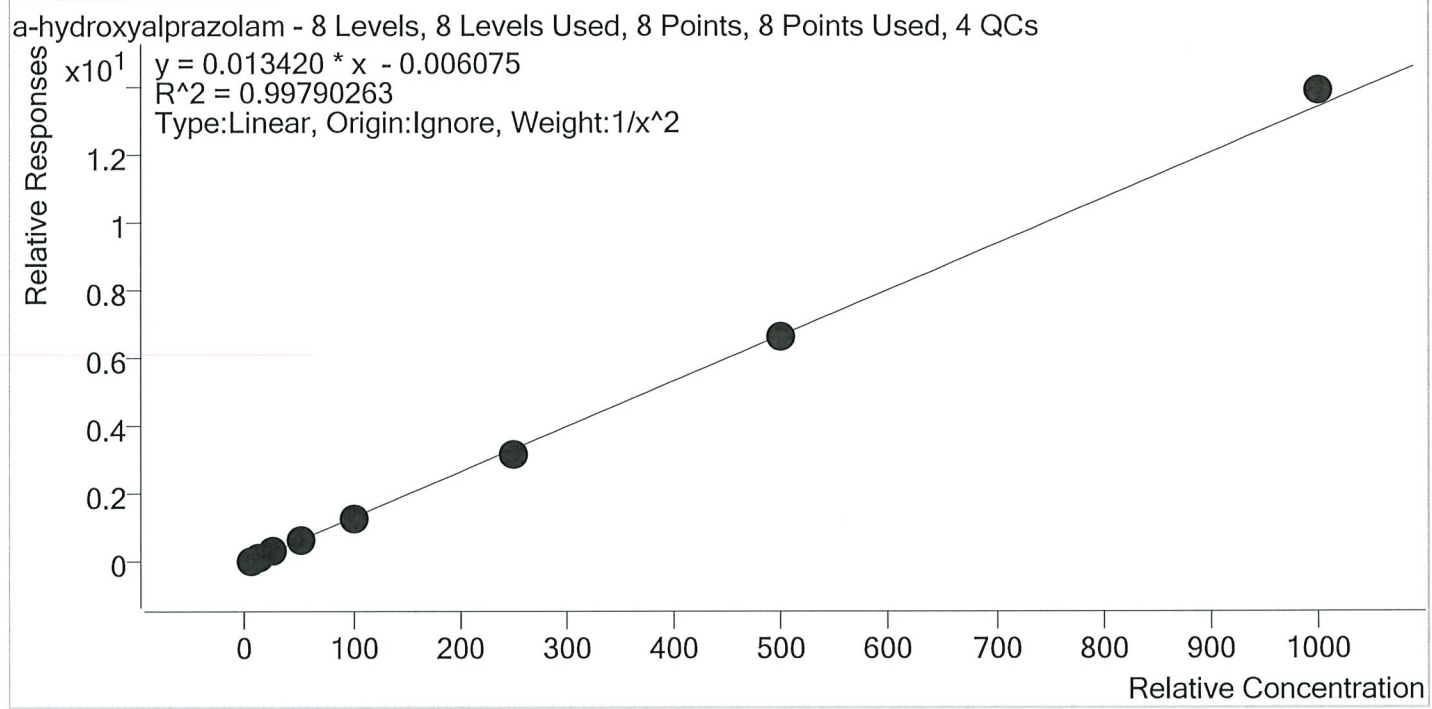
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.9	78.6
p1 Cal 2- 10ng r	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng r	3	✓	25.0	27.3	109.3
p1 Cal 4-50ng	4	✓	50.0	56.7	113.4
p1 Cal 5-100ng	5	✓	100.0	104.6	104.6
p1 Cal 6-250ng	6	✓	250.0	237.5	95.0
p1 Cal 7-500ng	7	×	500.0	393.7	78.7
p1 Cal 8-1000ng	8	×	1000.0	577.5	57.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



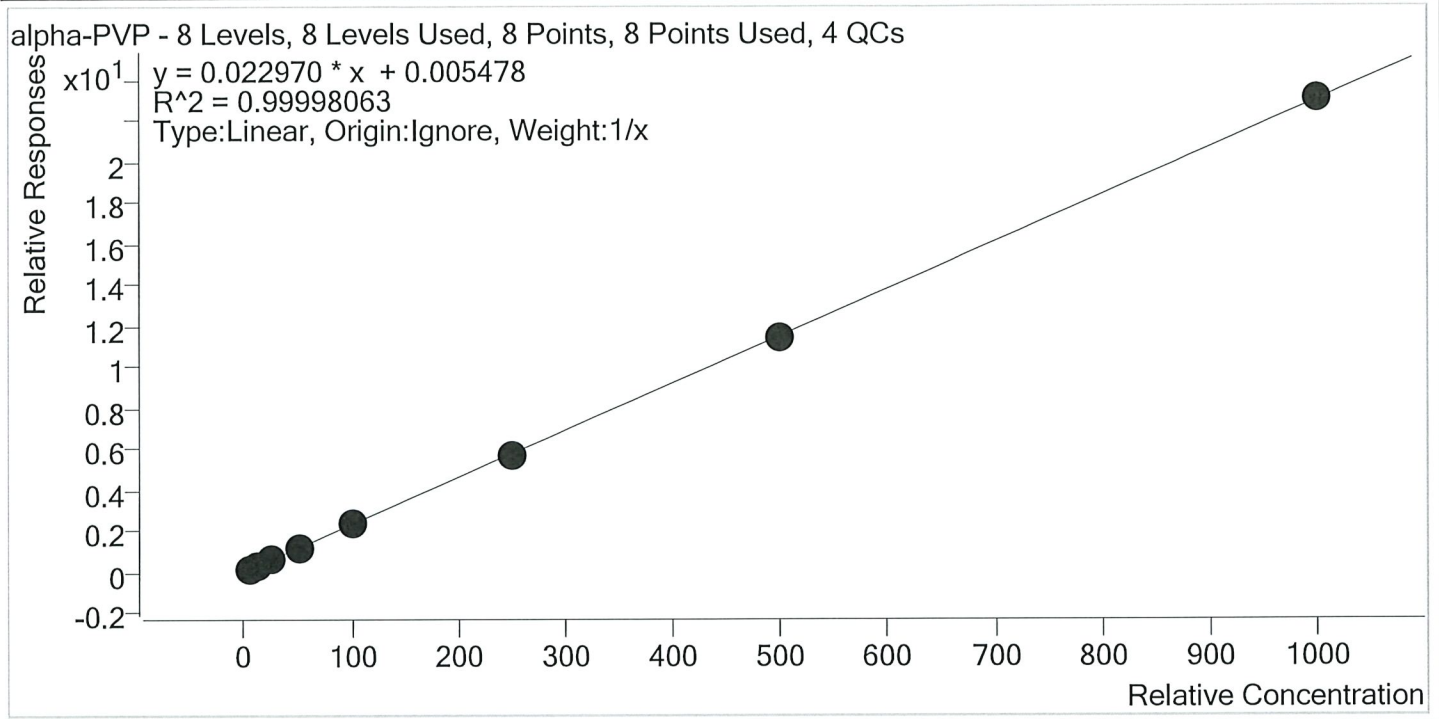
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng r	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng r	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	47.3	94.5
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	241.1	96.4
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1035.1	103.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**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	5.0	99.5
p1 Cal 2- 10ng r	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng r	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	498.8	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1002.7	100.3

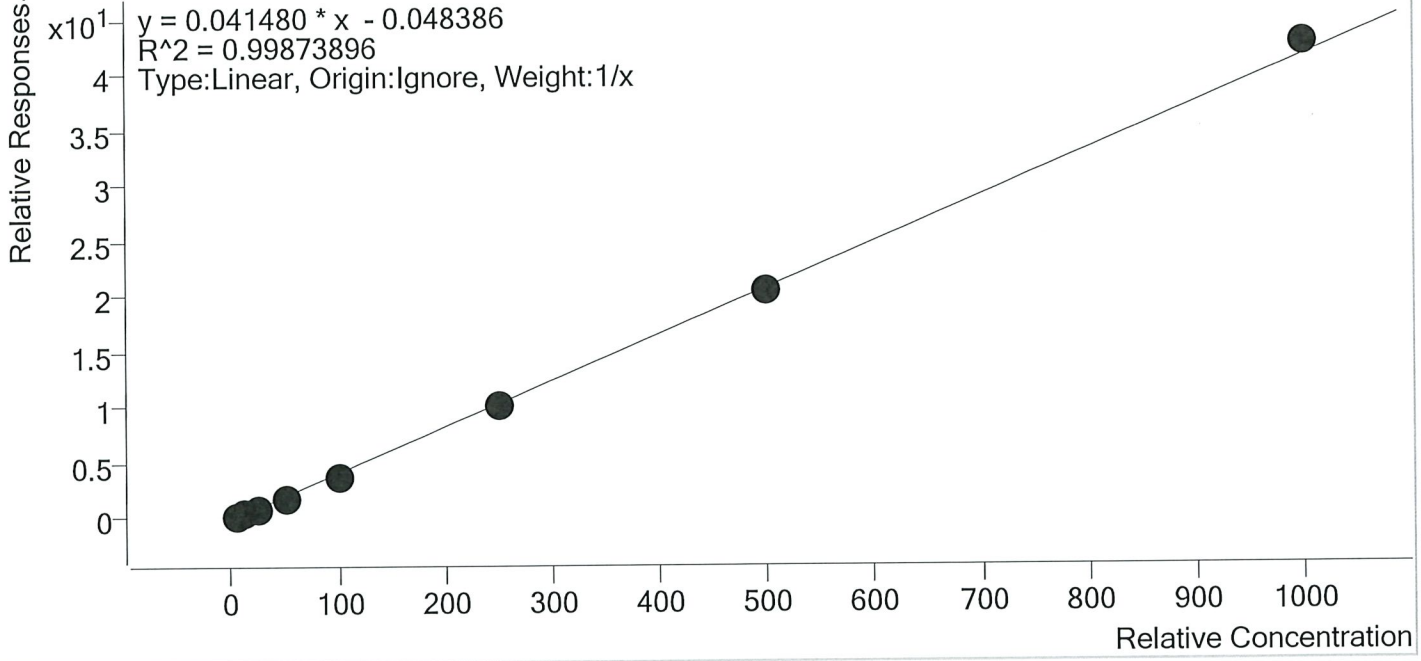
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# AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st 3703.batch.bin  
 Last Cal. Update 9/24/2019 4:19 PM  
 Analyst Name ISP\datastor  
 Analyte Alprazolam Internal Standard Alprazolam-D5

Alprazolam - 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	6.0	119.0
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng r	3	✓	25.0	23.9	95.8
p1 Cal 4-50ng	4	✓	50.0	46.1	92.2
p1 Cal 5-100ng	5	✓	100.0	92.4	92.4
p1 Cal 6-250ng	6	✓	250.0	242.9	97.2
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1027.5	102.7

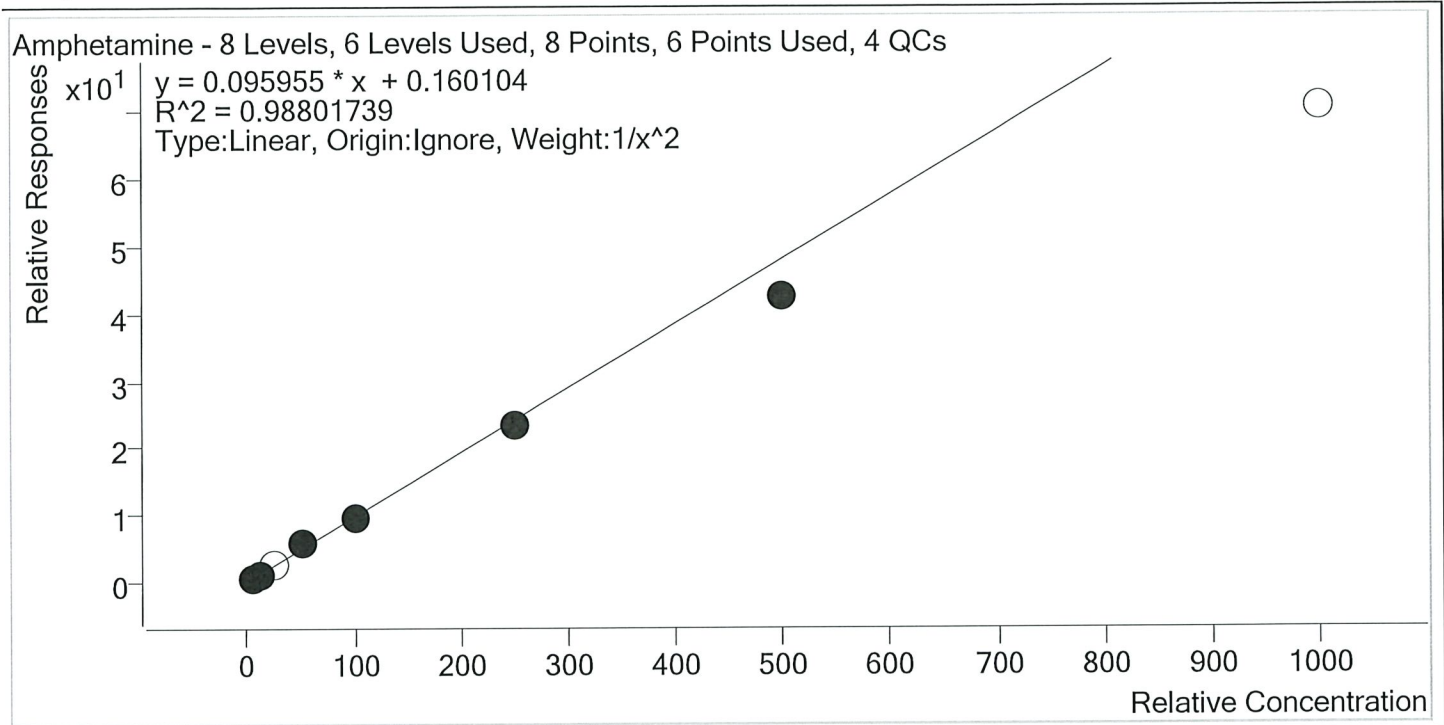


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



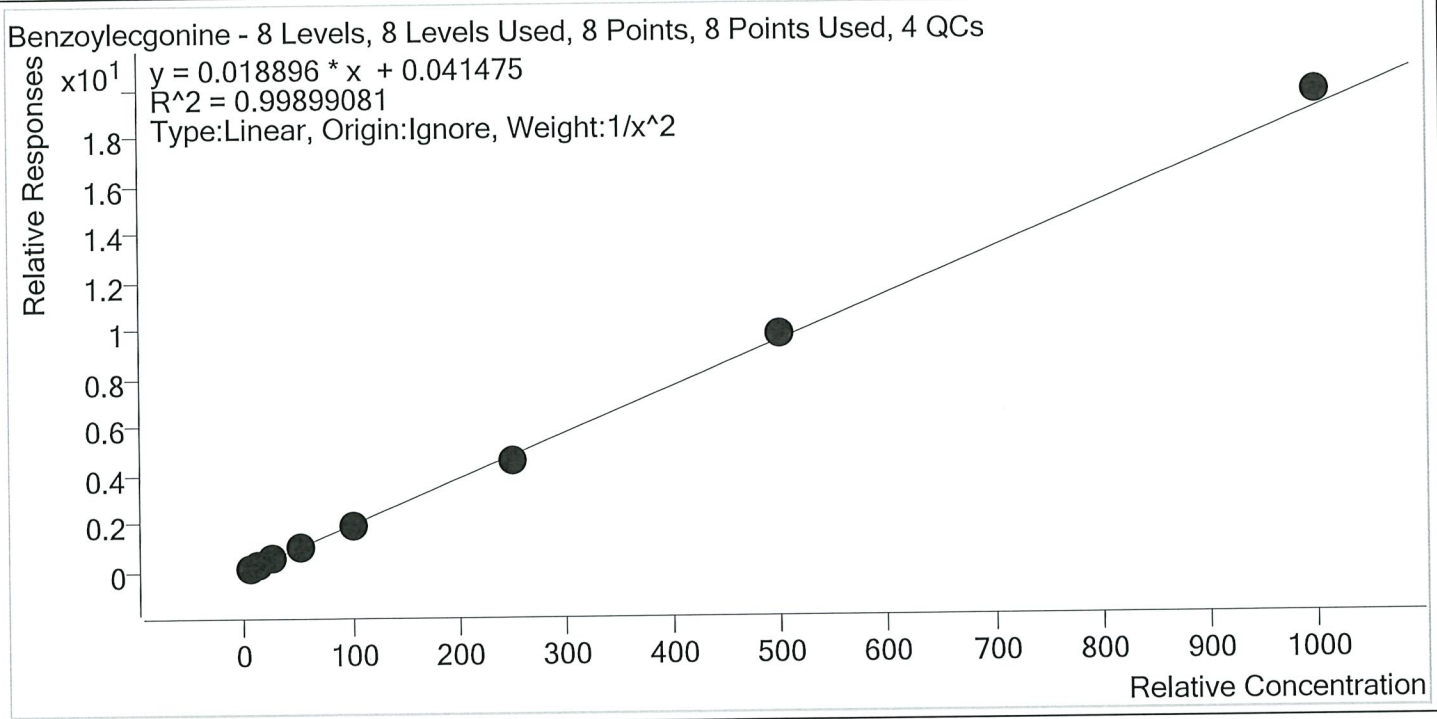
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng r	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng r	3	×	25.0	27.5	110.2
p1 Cal 4-50ng	4	✓	50.0	58.4	116.8
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	242.2	96.9
p1 Cal 7-500ng	7	✓	500.0	441.0	88.2
p1 Cal 8-1000ng	8	×	1000.0	735.0	73.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng r	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	49.0	98.1
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	239.8	95.9
p1 Cal 7-500ng	7	✓	500.0	510.4	102.1
p1 Cal 8-1000ng	8	✓	1000.0	1036.5	103.7

TS



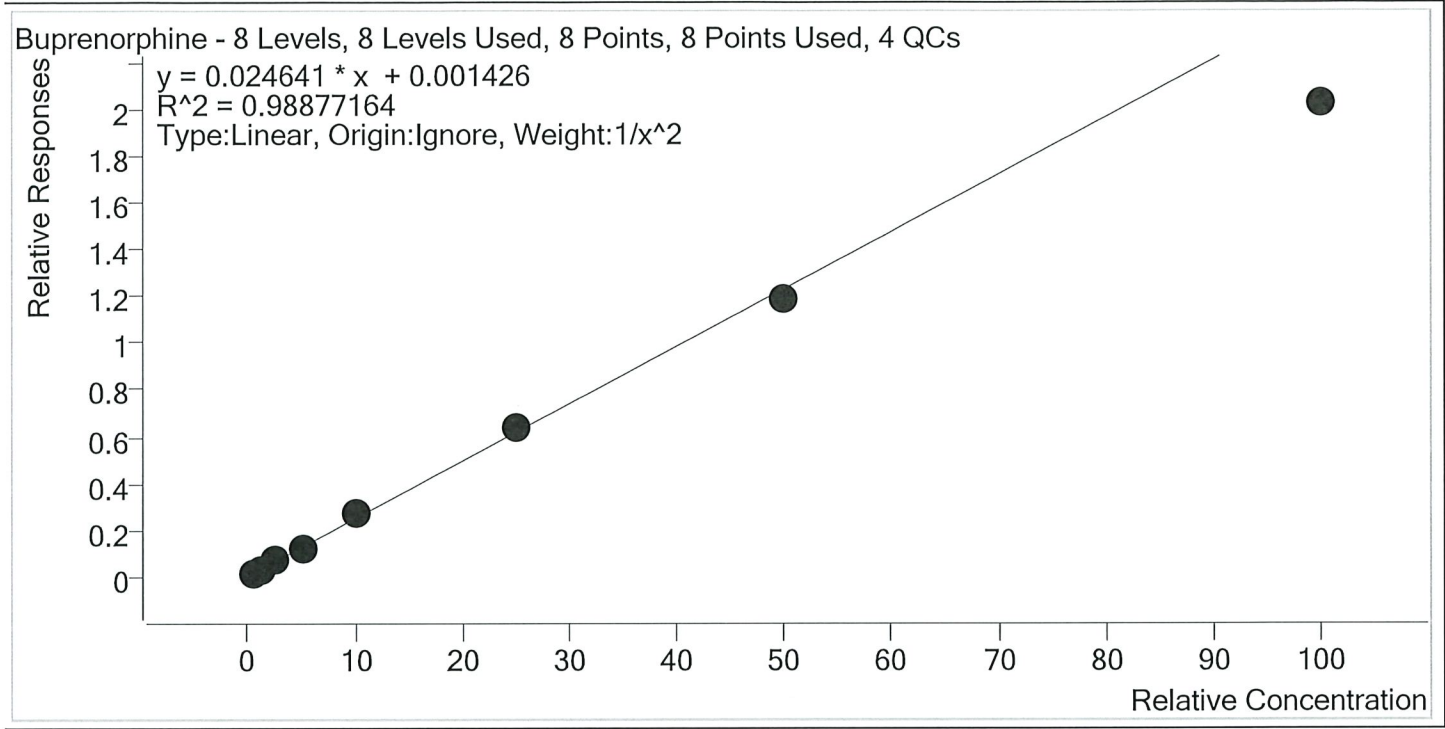
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin

**Last Cal. Update** 9/24/2019 4:19 PM

**Analyst Name** ISP\datastor

**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	94.0
p1 Cal 2- 10ng r	2	✓	1.0	1.1	108.7
p1 Cal 3 -25ng r	3	✓	2.5	2.7	107.4
p1 Cal 4-50ng	4	✓	5.0	4.9	97.6
p1 Cal 5-100ng	5	✓	10.0	10.9	109.1
p1 Cal 6-250ng	6	✓	25.0	26.1	104.4
p1 Cal 7-500ng	7	✓	50.0	48.2	96.4
p1 Cal 8-1000ng	8	✓	100.0	82.4	82.4

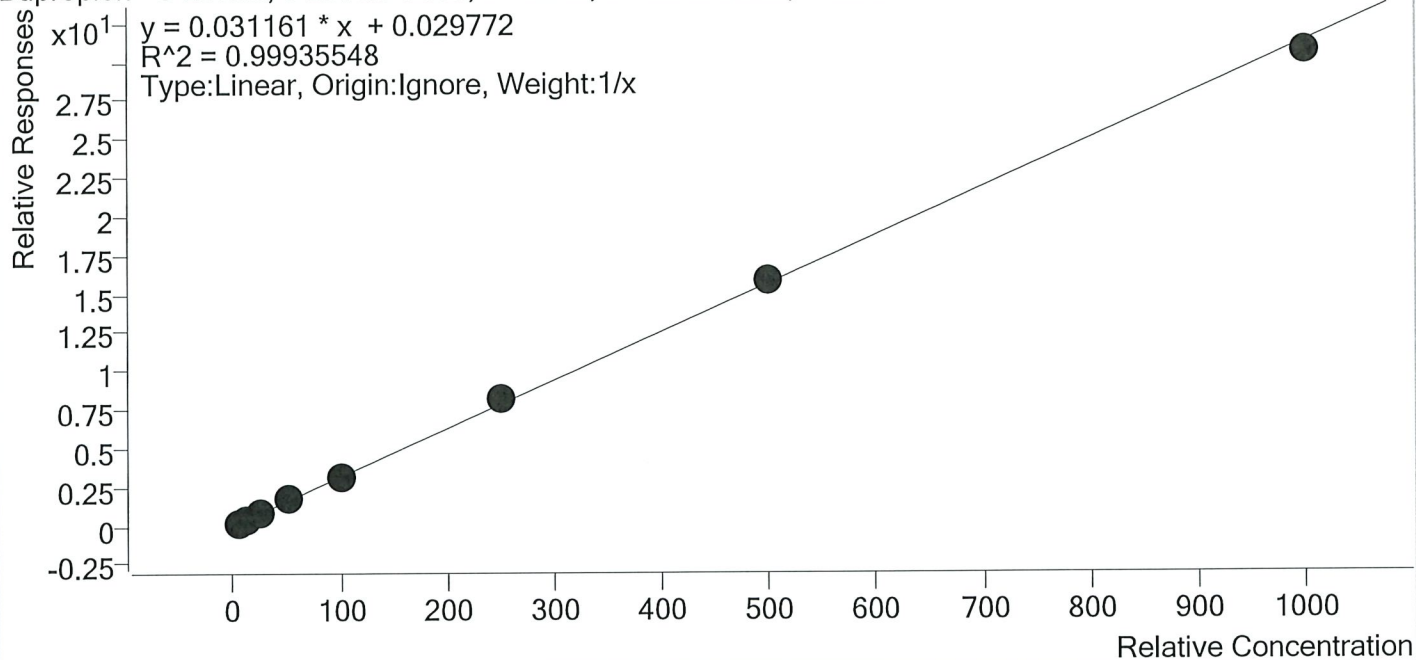
B



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

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



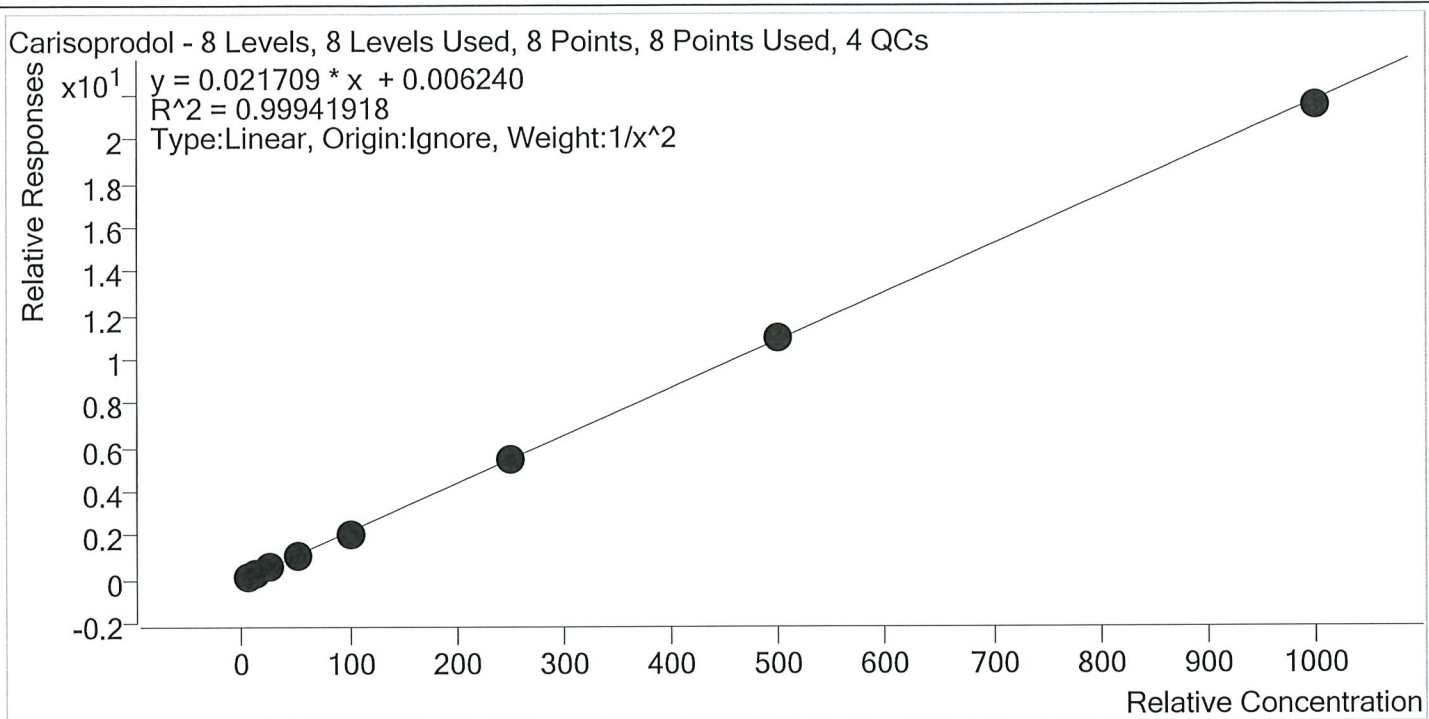
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.1
p1 Cal 2- 10ng r	2	✓	10.0	9.6	96.3
p1 Cal 3 -25ng r	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	52.6	105.2
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	259.6	103.8
p1 Cal 7-500ng	7	✓	500.0	506.0	101.2
p1 Cal 8-1000ng	8	✓	1000.0	979.4	97.9

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7



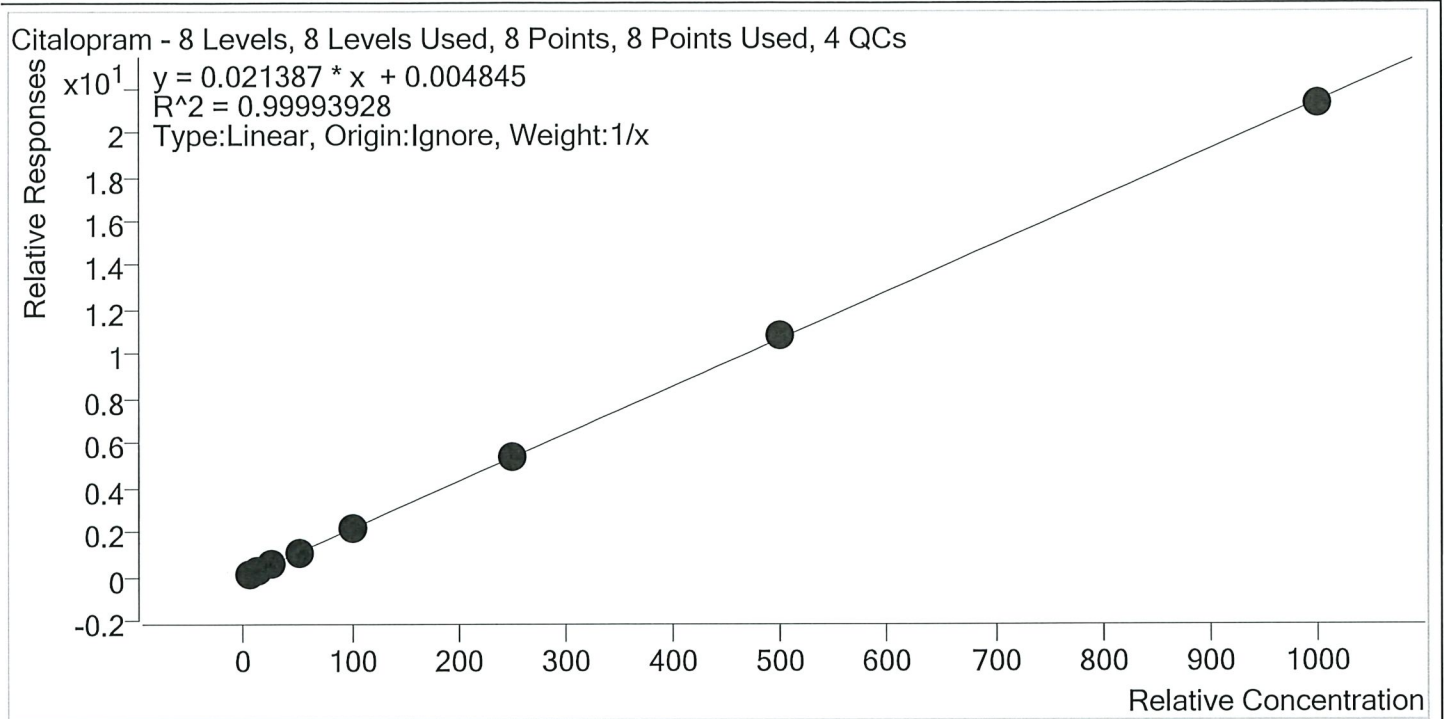
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng r	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	96.6	96.6
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	506.7	101.3
p1 Cal 8-1000ng	8	✓	1000.0	988.4	98.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6



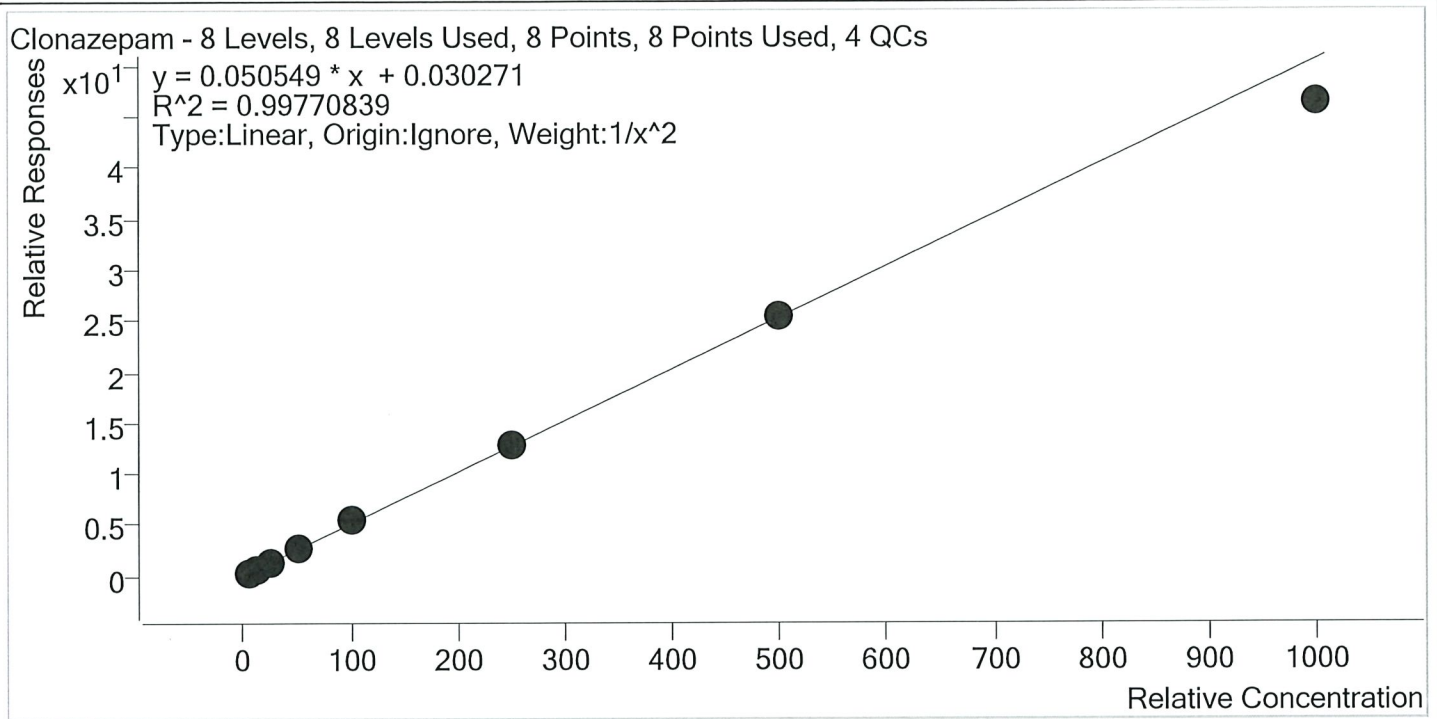
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng r	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng r	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	505.3	101.1
p1 Cal 8-1000ng	8	✓	1000.0	994.8	99.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**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	5.0	100.4
p1 Cal 2- 10ng r	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng r	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	51.8	103.6
p1 Cal 5-100ng	5	✓	100.0	105.7	105.7
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	501.8	100.4
p1 Cal 8-1000ng	8	✓	1000.0	917.1	91.7

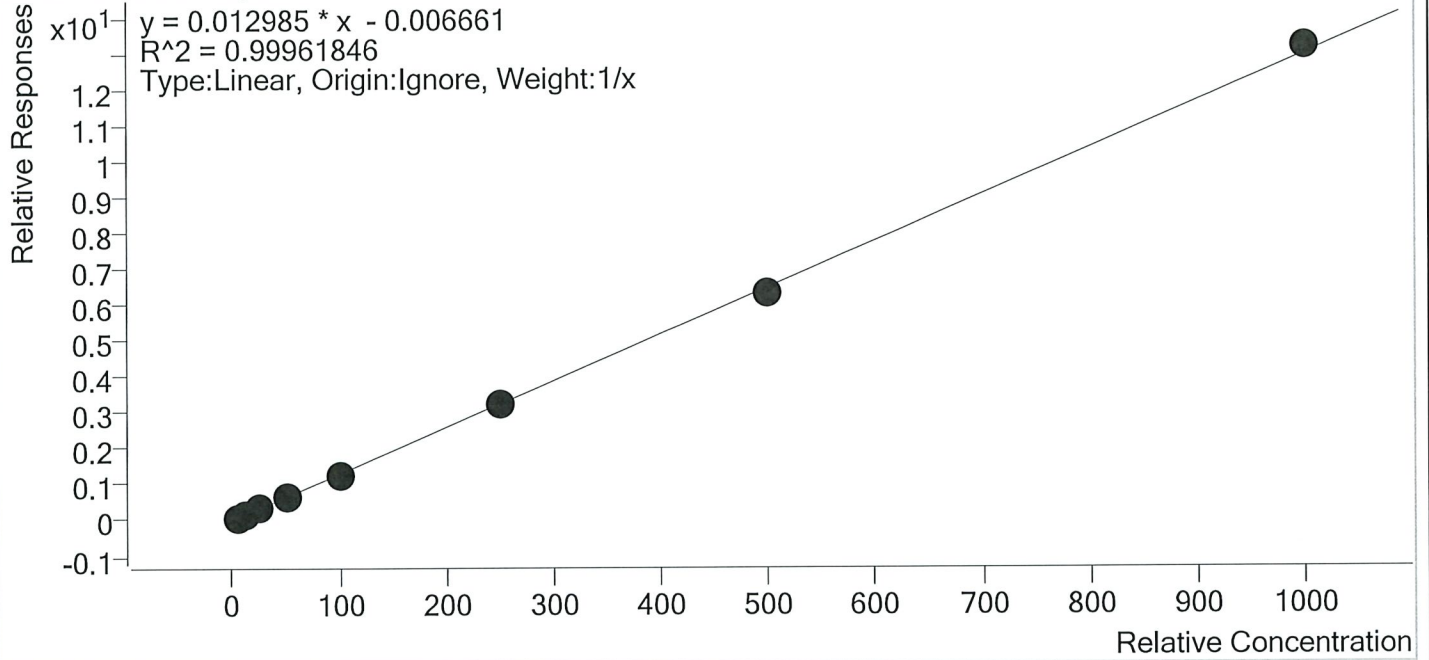
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.1
p1 Cal 2- 10ng r	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng r	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1016.1	101.6

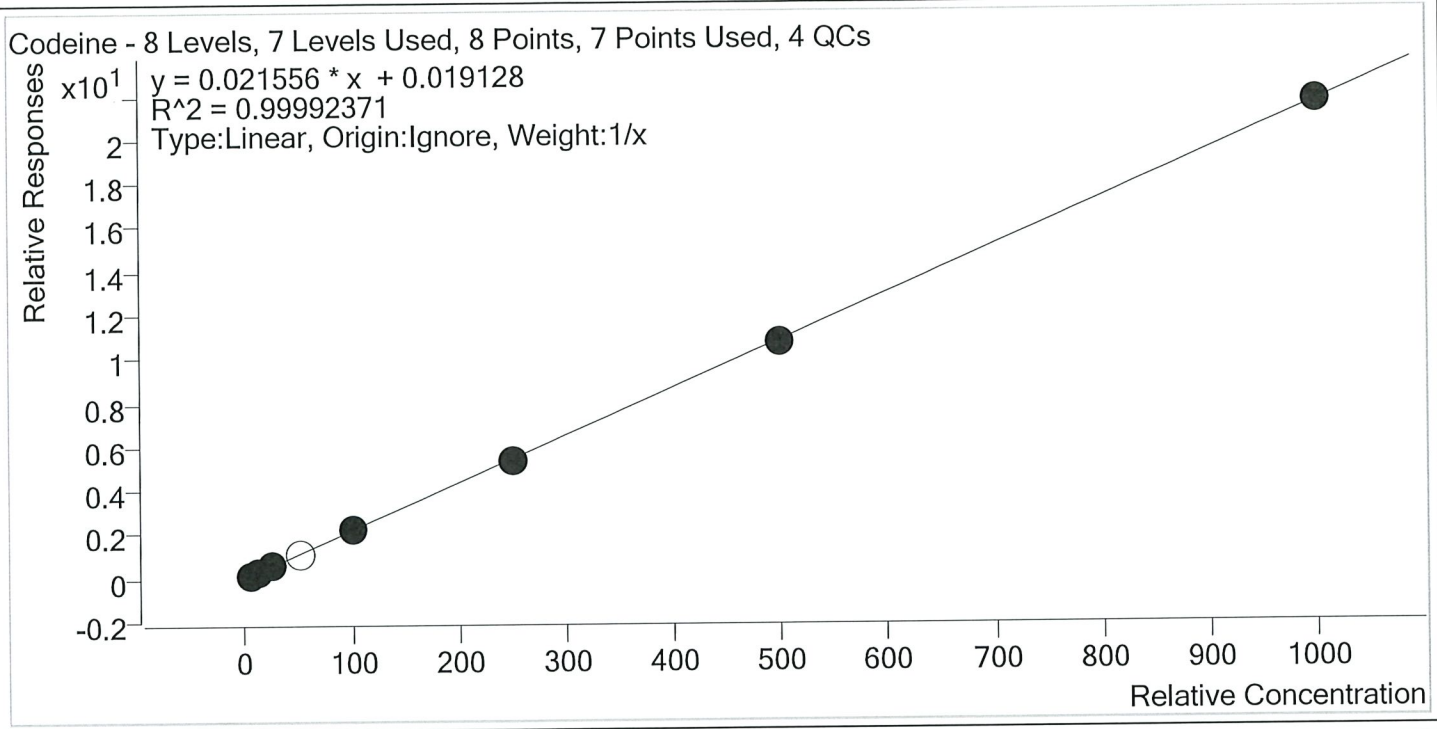


TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st  
3703.batch.bin  
Last Cal. Update 9/24/2019 4:19 PM  
Analyst Name ISP\datastor  
Analyte Codeine Internal Standard Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng r	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng r	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	×	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1001.1	100.1

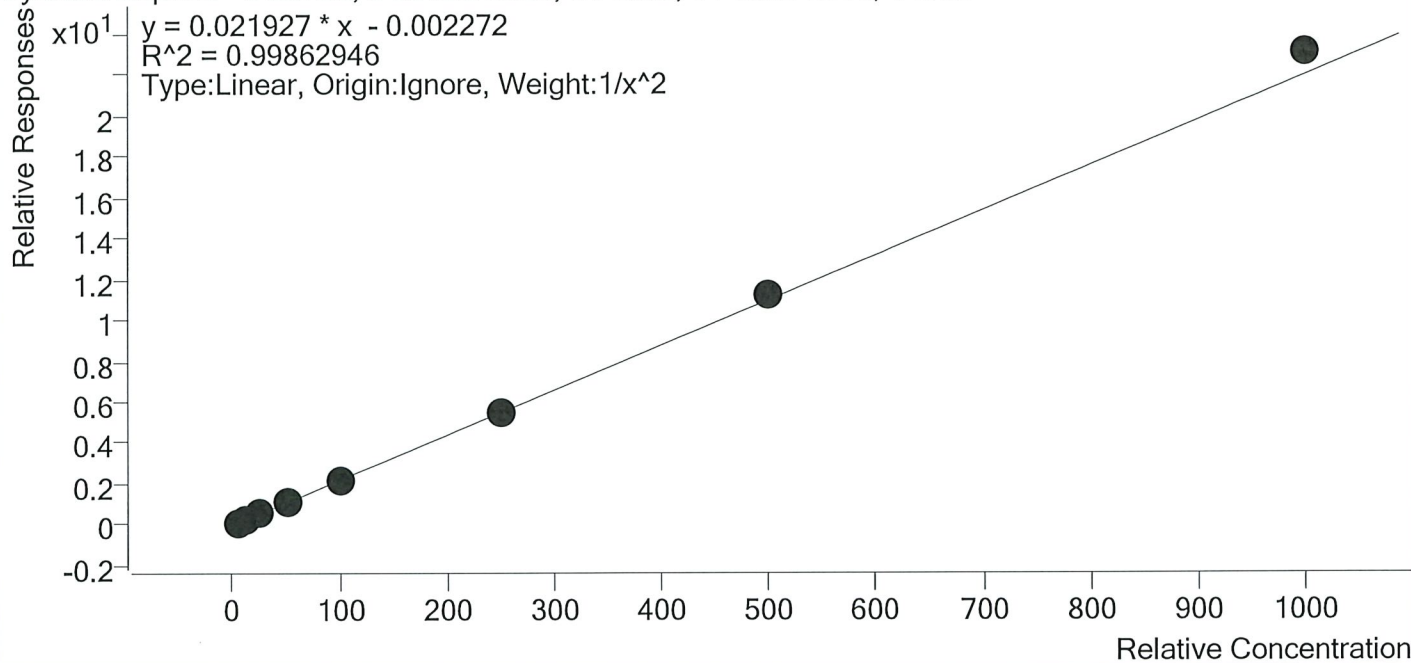
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

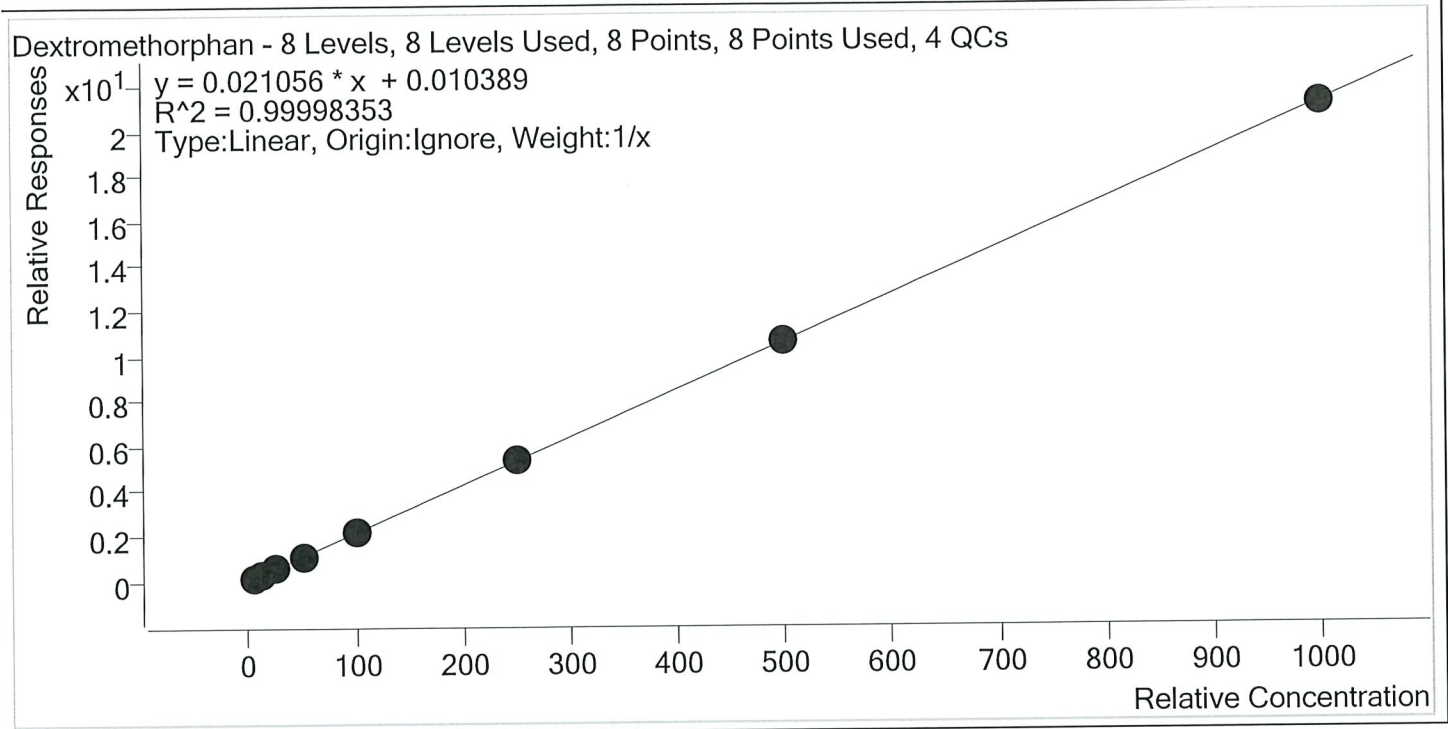


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.5
p1 Cal 2- 10ng r	2	✓	10.0	9.6	96.3
p1 Cal 3 -25ng r	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	48.5	97.0
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	249.9	99.9
p1 Cal 7-500ng	7	✓	500.0	515.3	103.1
p1 Cal 8-1000ng	8	✓	1000.0	1050.8	105.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3



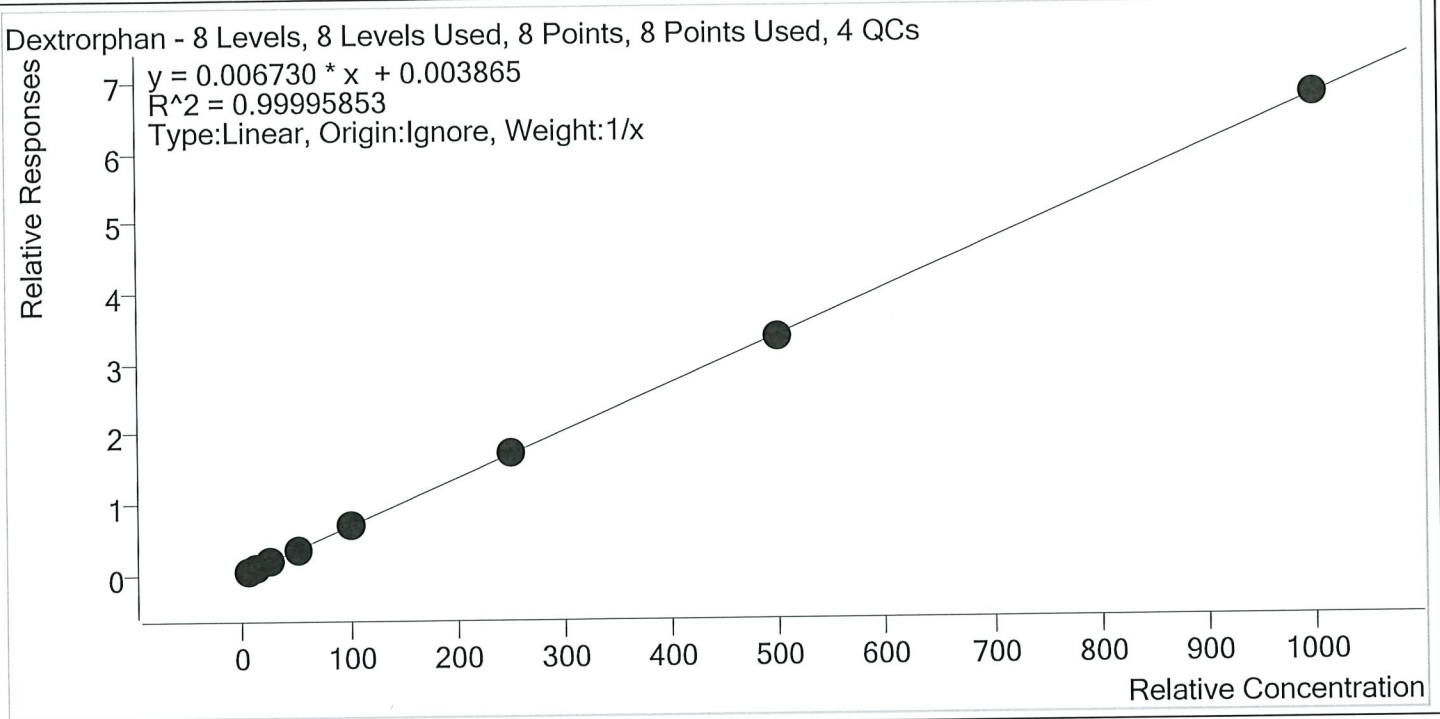
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng r	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng r	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	997.8	99.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3



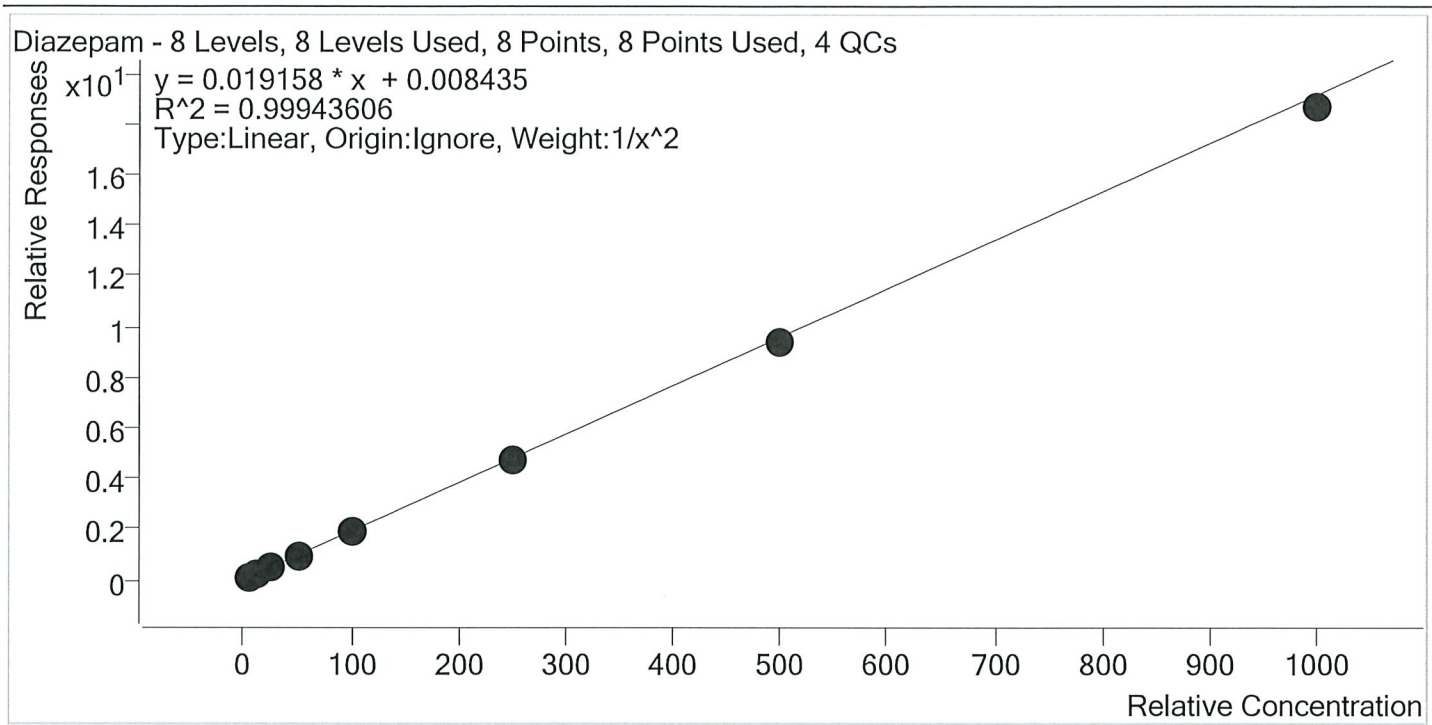
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng r	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng r	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	51.2	102.5
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1002.0	100.2

TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 Last Cal. Update 9/24/2019 4:19 PM  
 Analyst Name ISP\datastor  
 Analyte Diazepam Internal Standard Diazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng_r	3	✓	25.0	25.7	102.7
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
p1 Cal 7-500ng	7	✓	500.0	488.7	97.7
p1 Cal 8-1000ng	8	✓	1000.0	974.1	97.4

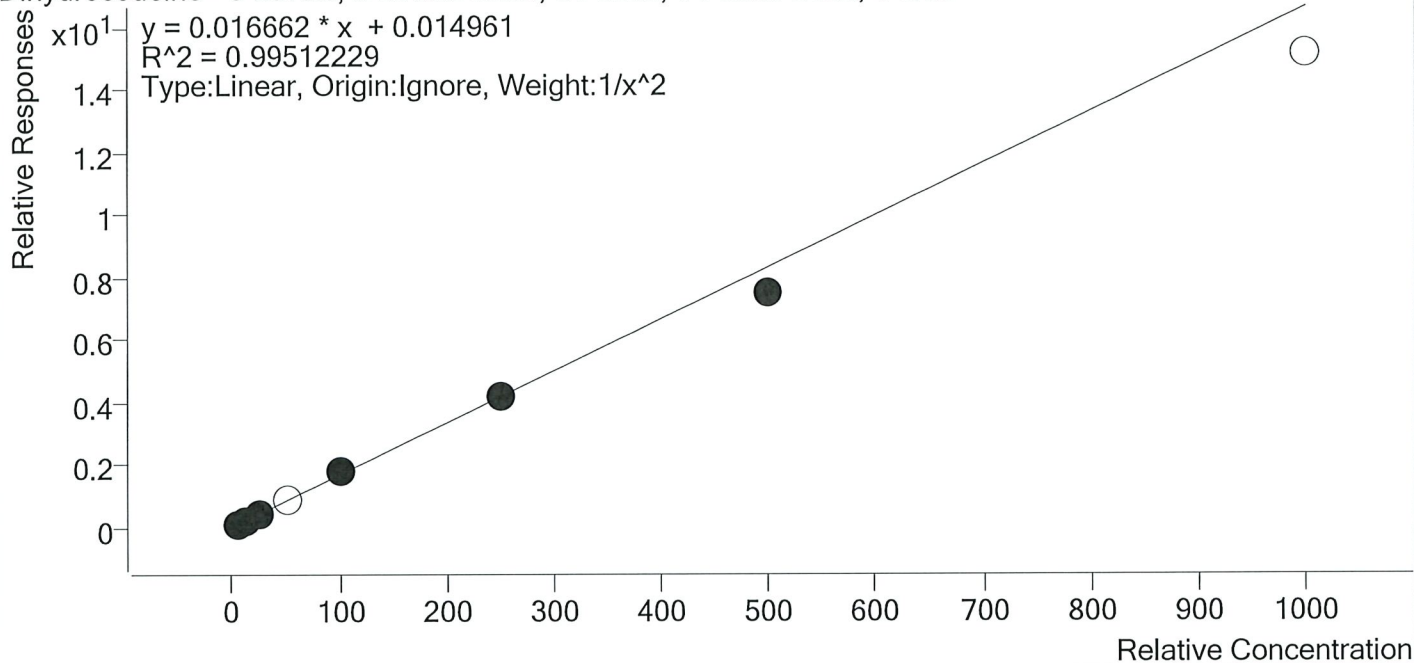
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



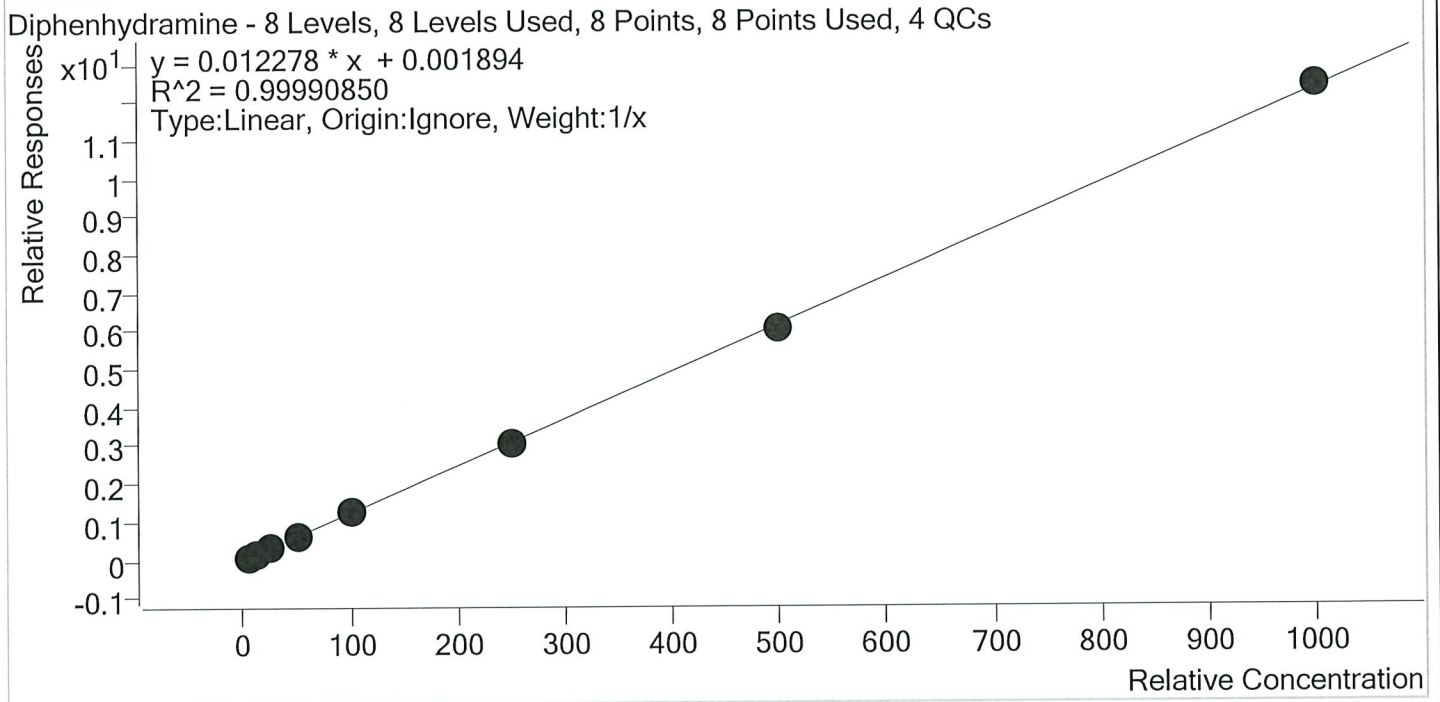
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng r	2	✓	10.0	10.4	103.9
p1 Cal 3 -25ng r	3	✓	25.0	26.5	106.0
p1 Cal 4-50ng	4	×	50.0	54.8	109.6
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
p1 Cal 7-500ng	7	✓	500.0	450.0	90.0
p1 Cal 8-1000ng	8	×	1000.0	910.3	91.0

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3



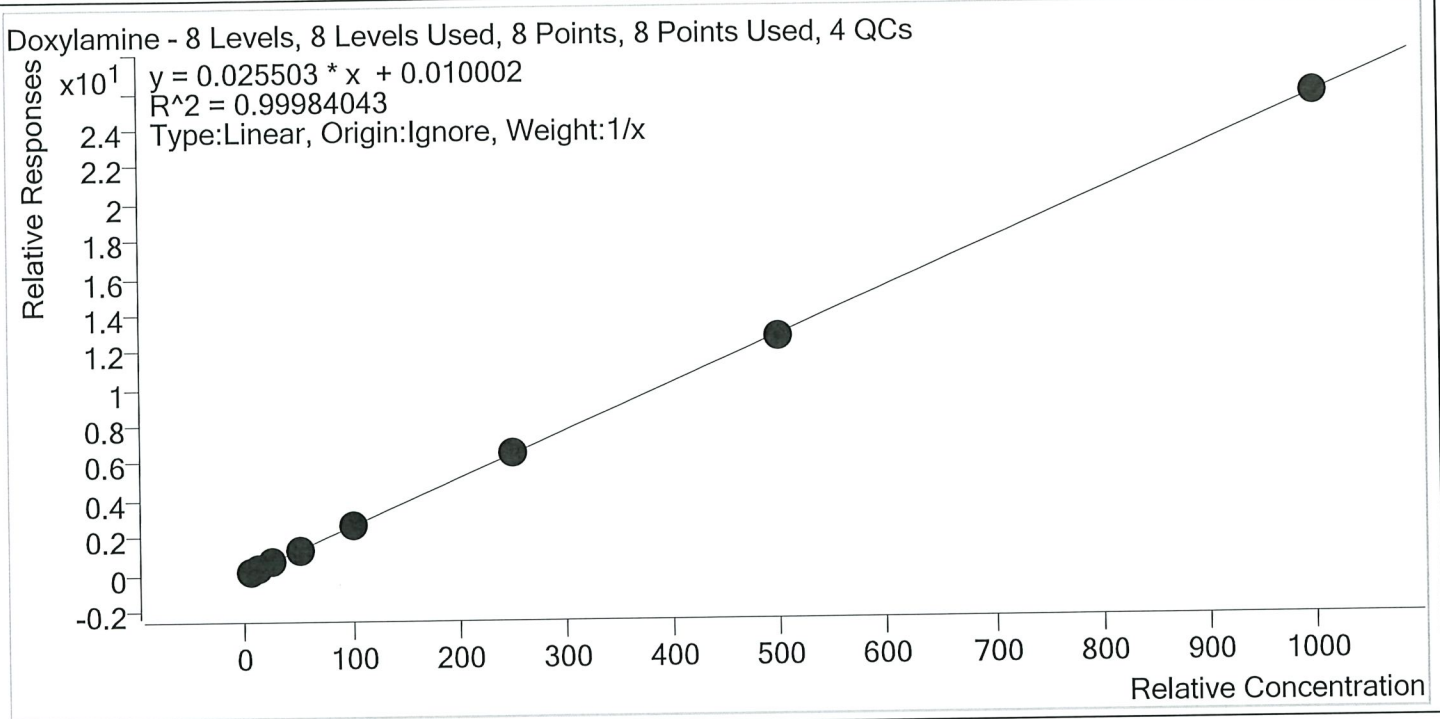
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng r	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng r	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	493.8	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1007.9	100.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st  
 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng r	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng r	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	254.9	101.9
p1 Cal 7-500ng	7	✓	500.0	492.6	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1000.6	100.1



TS



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

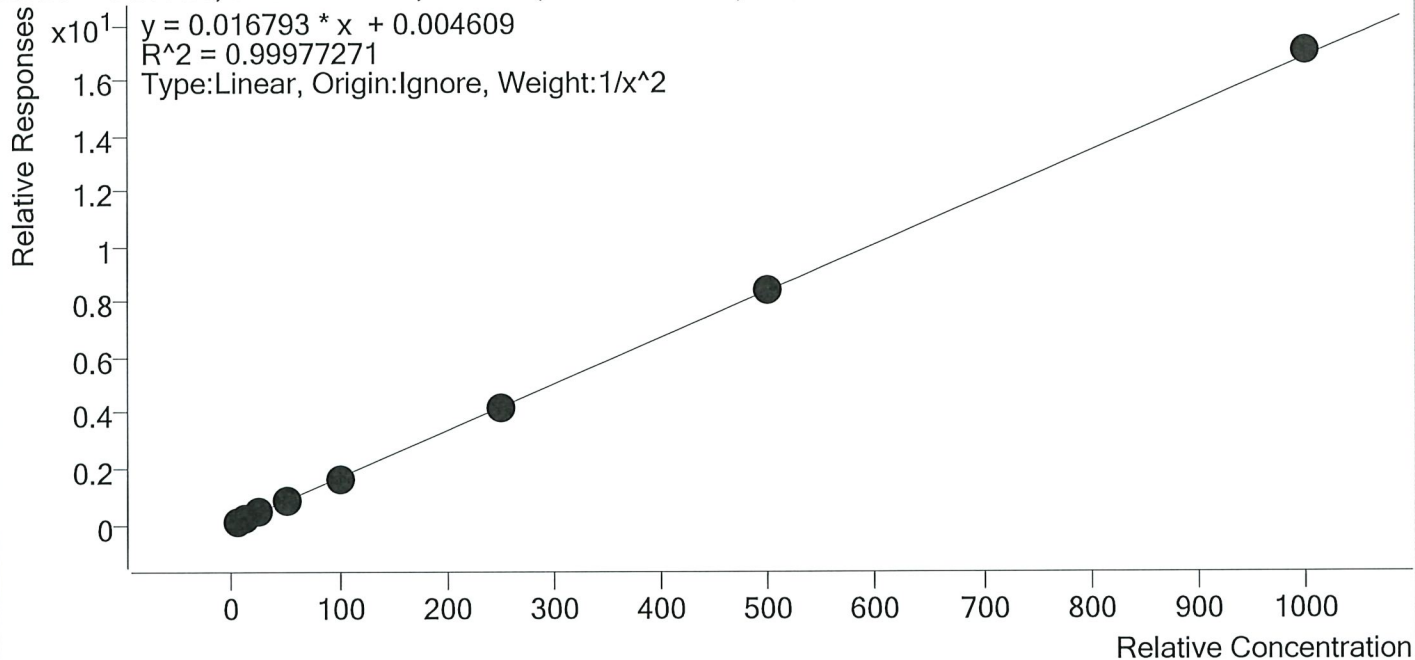
**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st  
3703.batch.bin

**Last Cal. Update** 9/24/2019 4:19 PM

**Analyst Name** ISP\datastor

**Analyte** EDDP **Internal Standard** EDDP-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng r	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng r	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	503.3	100.7
p1 Cal 8-1000ng	8	✓	1000.0	1013.5	101.3

B



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

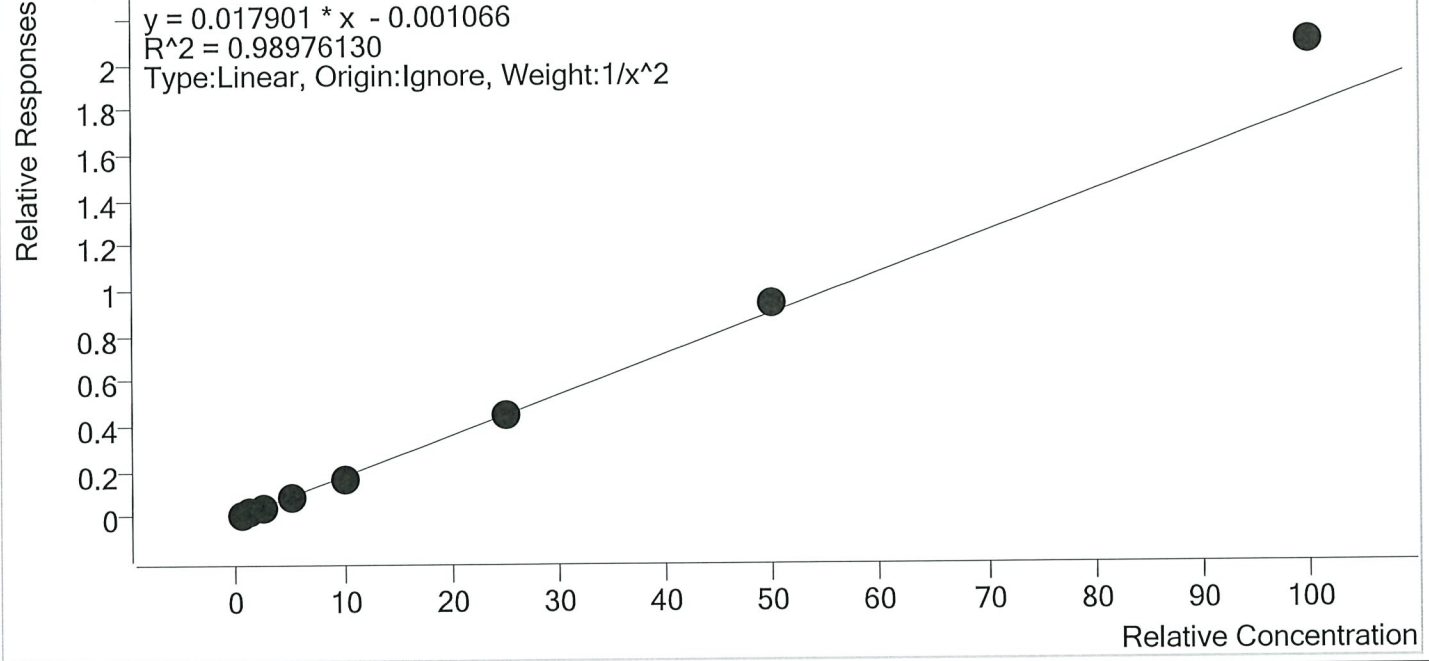
**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st 3703.batch.bin

**Last Cal. Update** 9/24/2019 4:19 PM

**Analyst Name** ISP\datastor

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

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



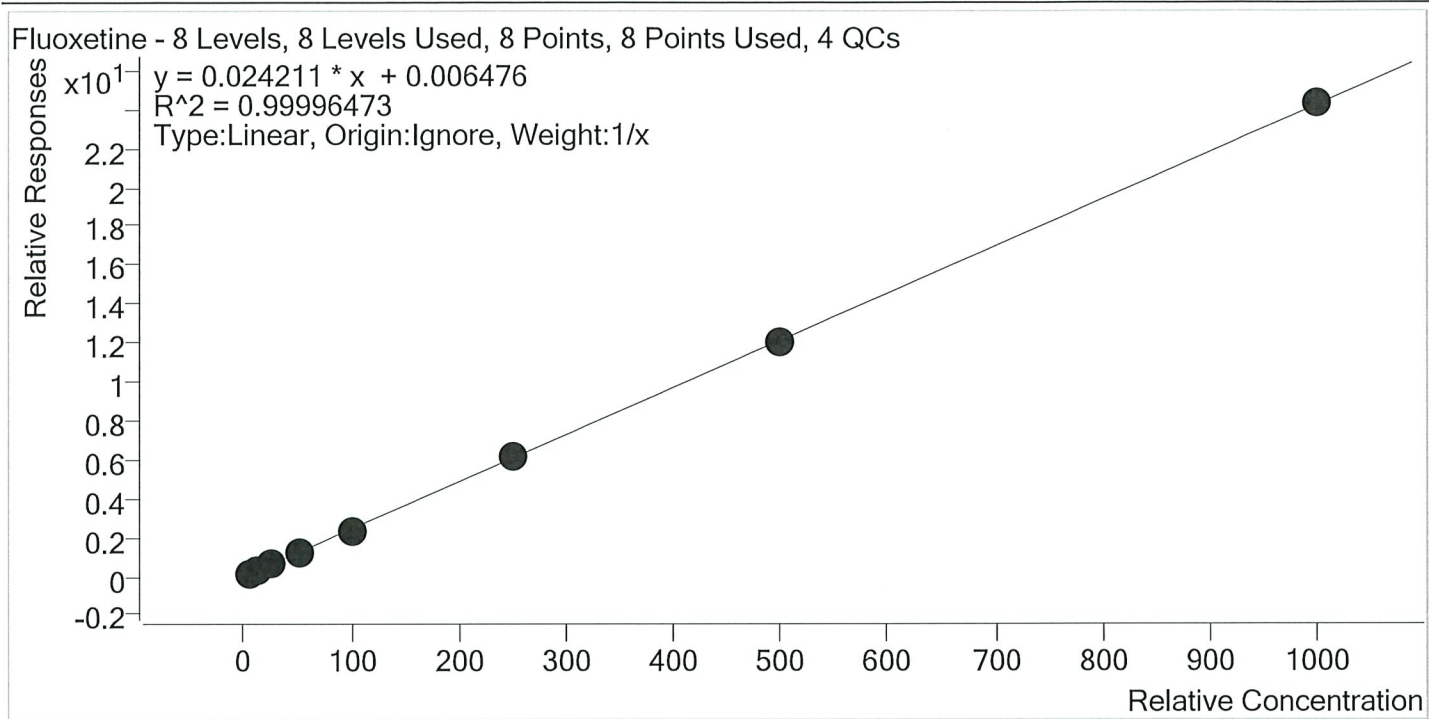
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.5
p1 Cal 2- 10ng r	2	✓	1.0	1.0	104.6
p1 Cal 3 -25ng r	3	✓	2.5	2.3	91.6
p1 Cal 4-50ng	4	✓	5.0	4.6	92.7
p1 Cal 5-100ng	5	✓	10.0	9.0	90.0
p1 Cal 6-250ng	6	✓	25.0	24.8	99.2
p1 Cal 7-500ng	7	✓	50.0	52.4	104.8
p1 Cal 8-1000ng	8	✓	100.0	116.6	116.6

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklst  
3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**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	4.9	98.8
p1 Cal 2- 10ng r	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng r	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	496.9	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1003.3	100.3

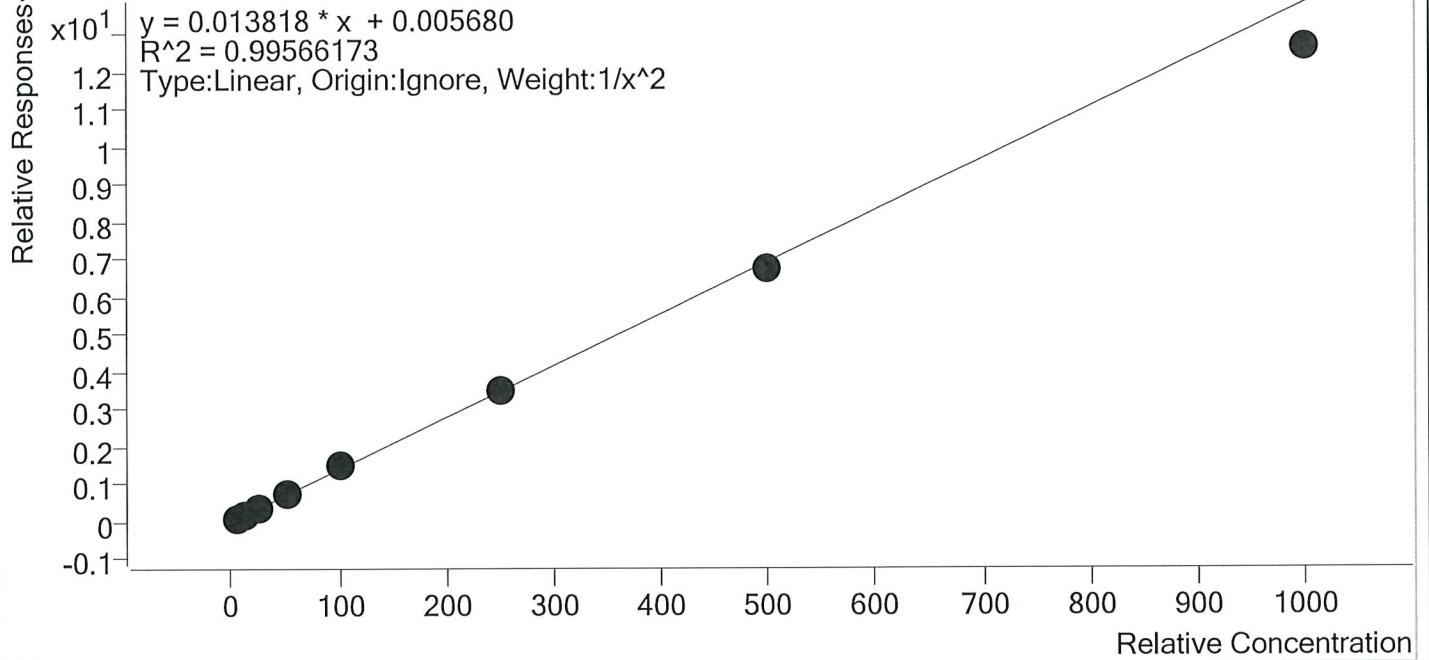
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



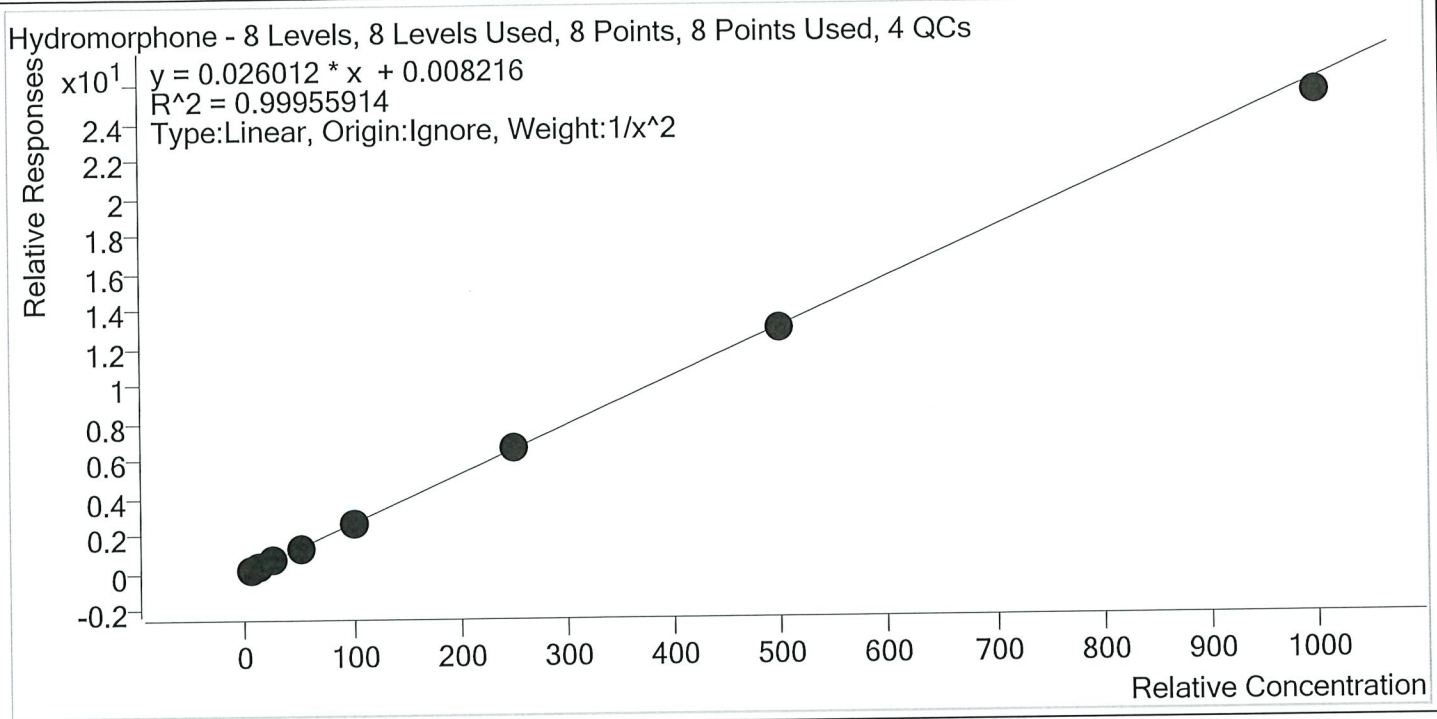
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	101.0
p1 Cal 2- 10ng r	2	✓	10.0	9.6	96.4
p1 Cal 3 -25ng r	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	54.5	109.0
p1 Cal 5-100ng	5	✓	100.0	106.9	106.9
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	483.8	96.8
p1 Cal 8-1000ng	8	✓	1000.0	913.9	91.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6



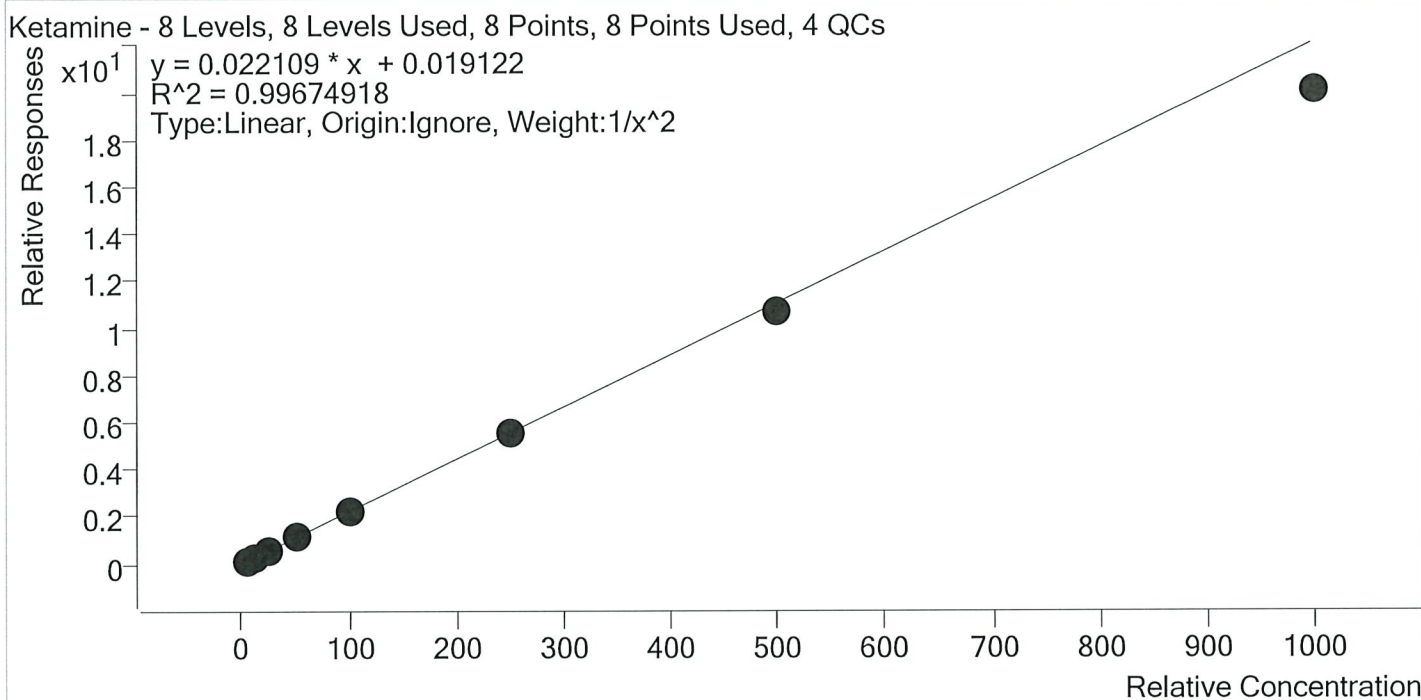
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng r	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng r	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	255.0	102.0
p1 Cal 7-500ng	7	✓	500.0	494.4	98.9
p1 Cal 8-1000ng	8	✓	1000.0	971.9	97.2

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4



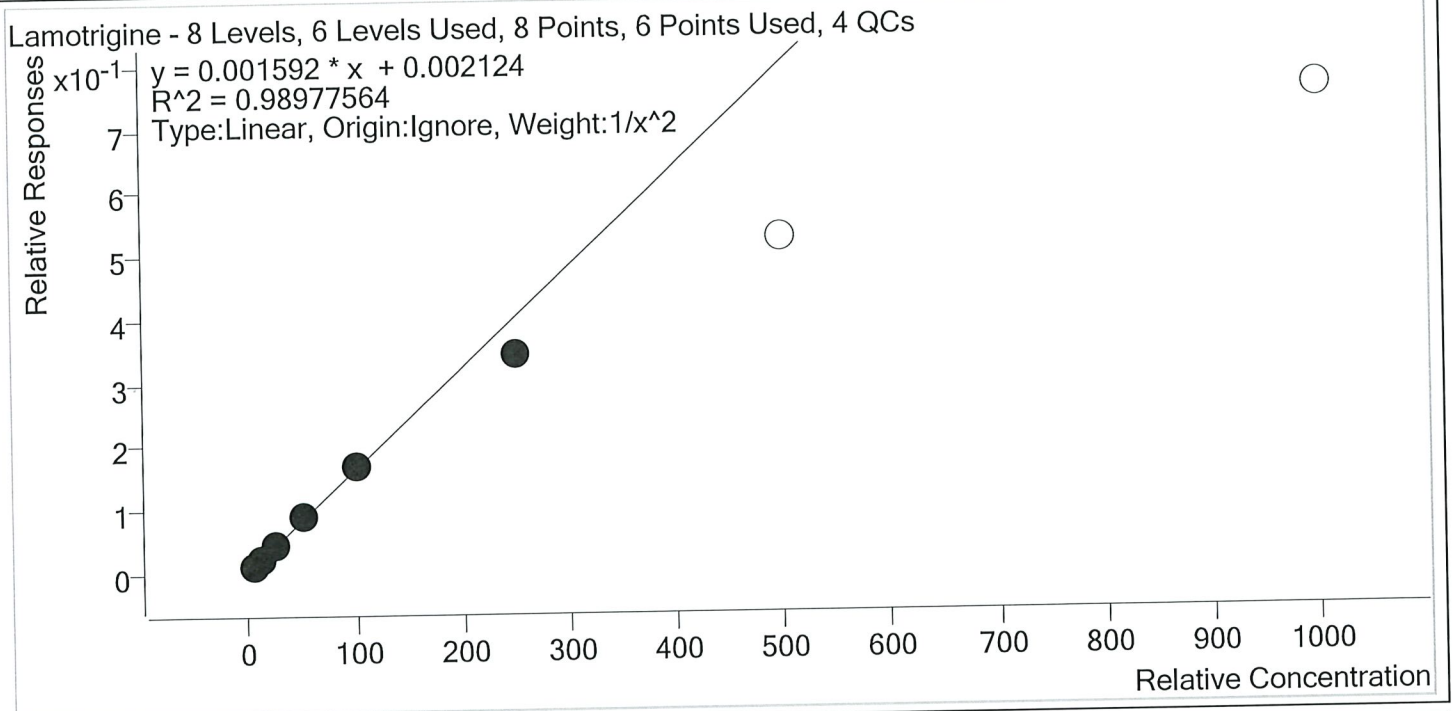
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng r	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng r	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	53.5	107.0
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	481.6	96.3
p1 Cal 8-1000ng	8	✓	1000.0	906.5	90.6

TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk\st  
3703.batch.bin  
Last Cal. Update 9/24/2019 4:19 PM  
Analyst Name ISP\datastor  
Analyte Lamotrigine Internal Standard Ketamine-D4



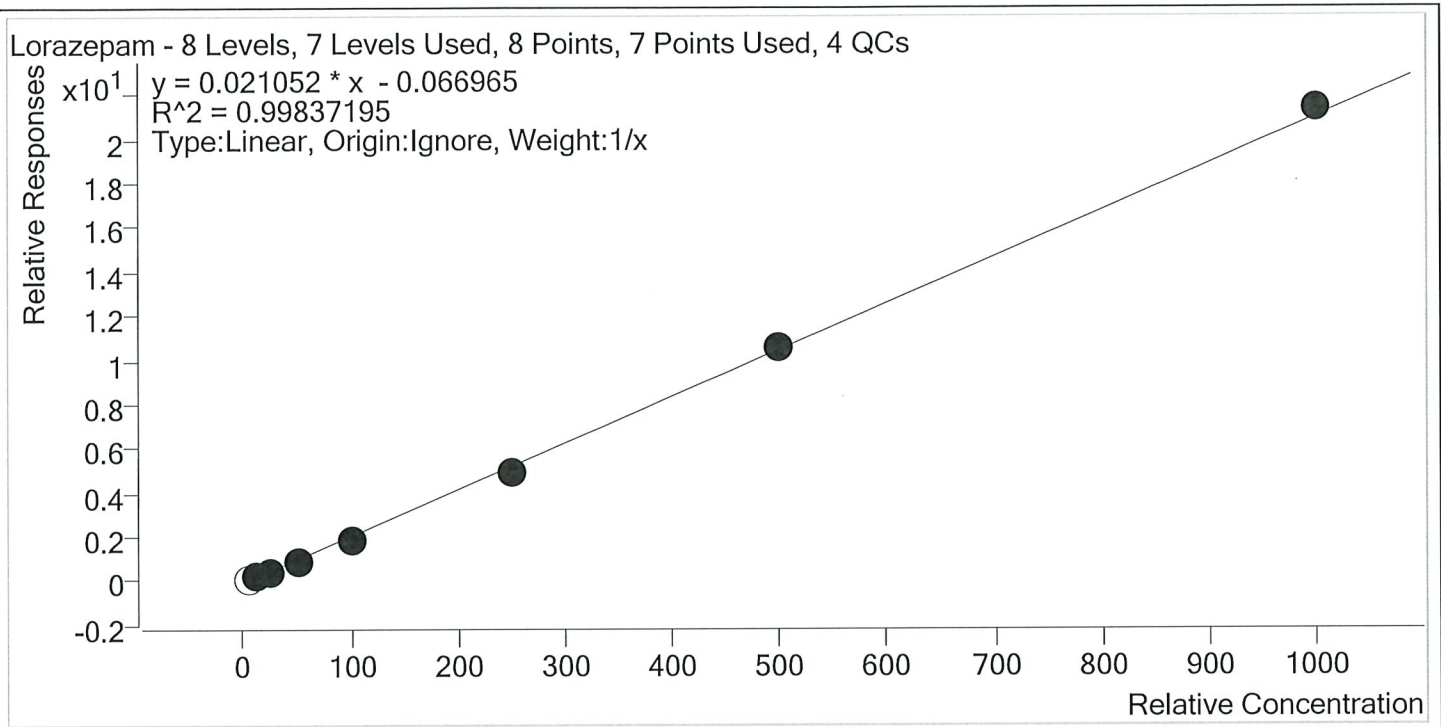
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng r	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng r	3	✓	25.0	25.9	103.8
p1 Cal 4-50ng	4	✓	50.0	55.0	110.0
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	213.1	85.2
p1 Cal 7-500ng	7	×	500.0	329.1	65.8
p1 Cal 8-1000ng	8	×	1000.0	472.6	47.3

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**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	7.7	153.7
p1 Cal 2- 10ng r	2	✓	10.0	12.1	121.4
p1 Cal 3 -25ng r	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	45.6	91.2
p1 Cal 5-100ng	5	✓	100.0	89.4	89.4
p1 Cal 6-250ng	6	✓	250.0	240.4	96.2
p1 Cal 7-500ng	7	✓	500.0	504.4	100.9
p1 Cal 8-1000ng	8	✓	1000.0	1018.3	101.8

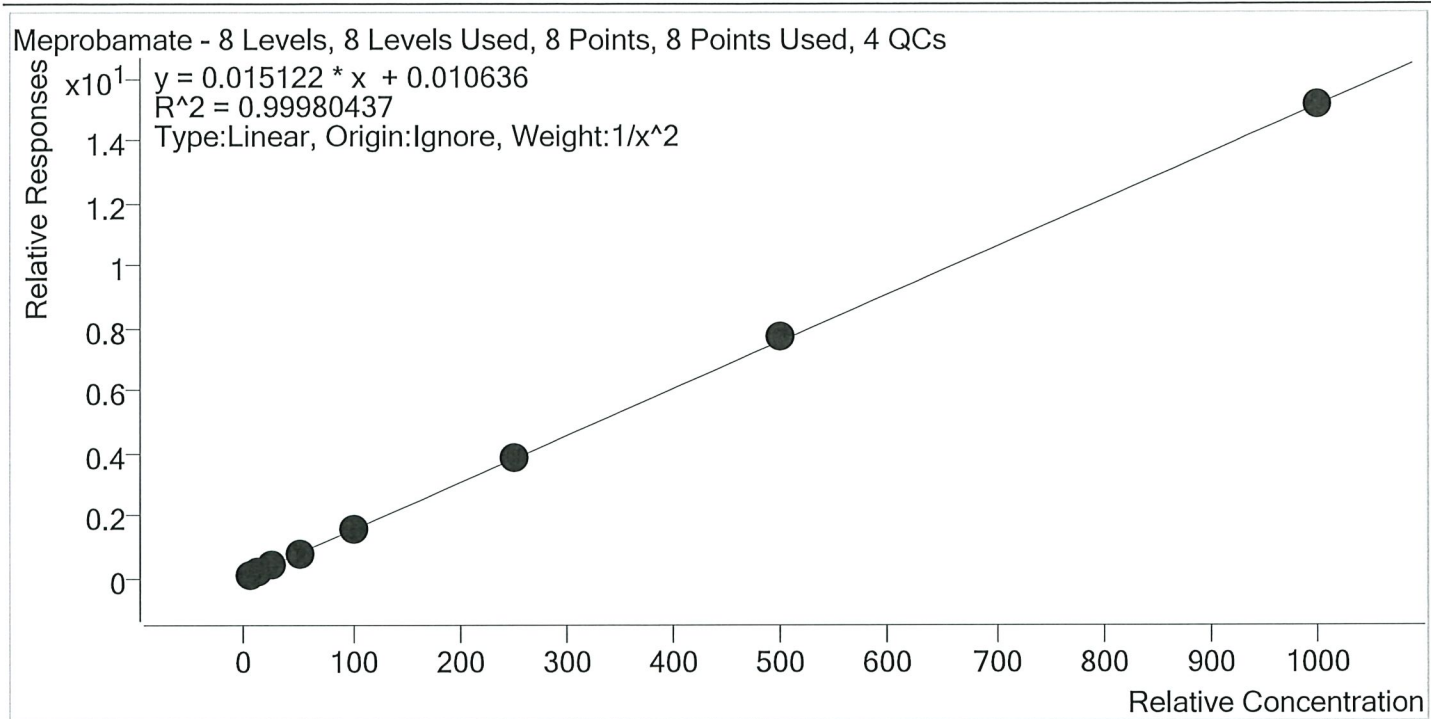


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklst 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



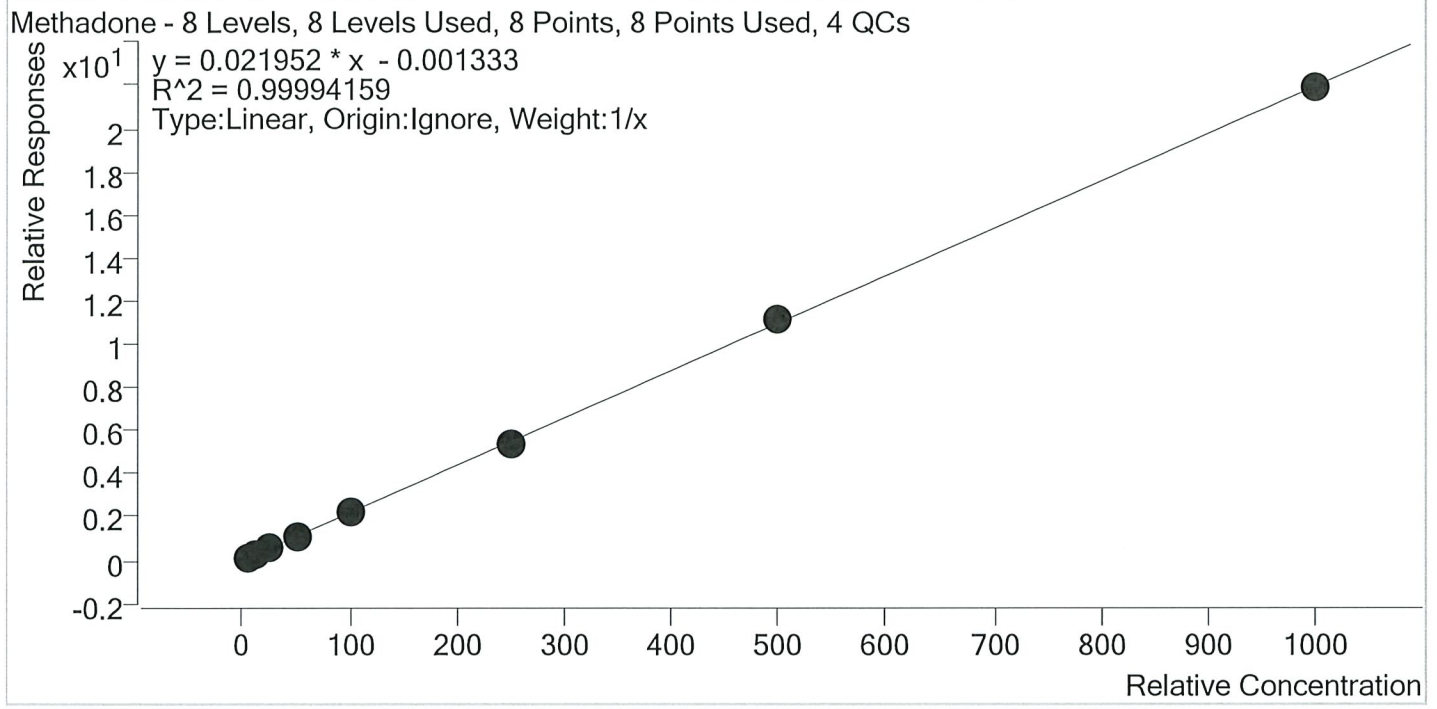
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng r	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng r	3	✓	25.0	24.5	98.2
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	511.3	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1001.0	100.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9



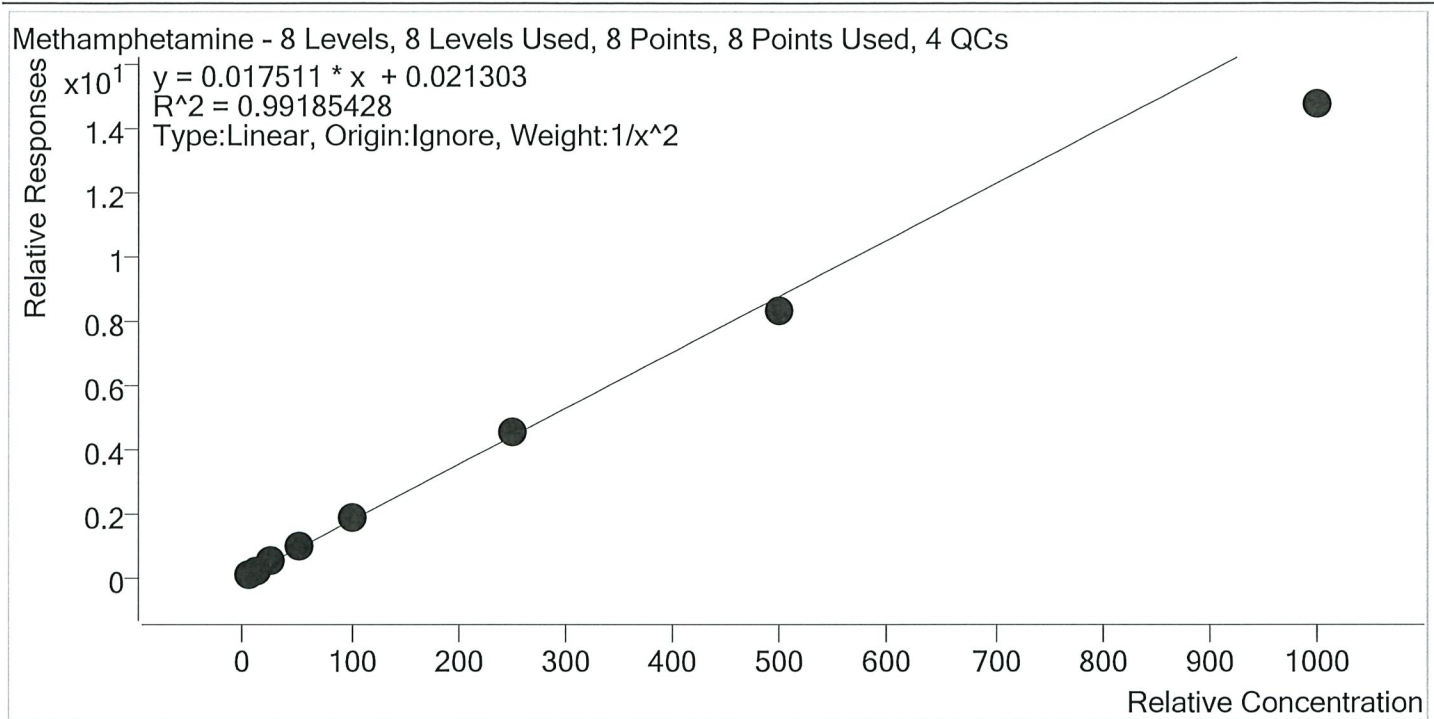
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	103.0
p1 Cal 2- 10ng r	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng r	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	505.5	101.1
p1 Cal 8-1000ng	8	✓	1000.0	997.2	99.7

TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
 Last Cal. Update 9/24/2019 4:19 PM  
 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	4.8	96.5
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng r	3	✓	25.0	26.6	106.4
p1 Cal 4-50ng	4	✓	50.0	54.2	108.5
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	475.3	95.1
p1 Cal 8-1000ng	8	✓	1000.0	842.0	84.2

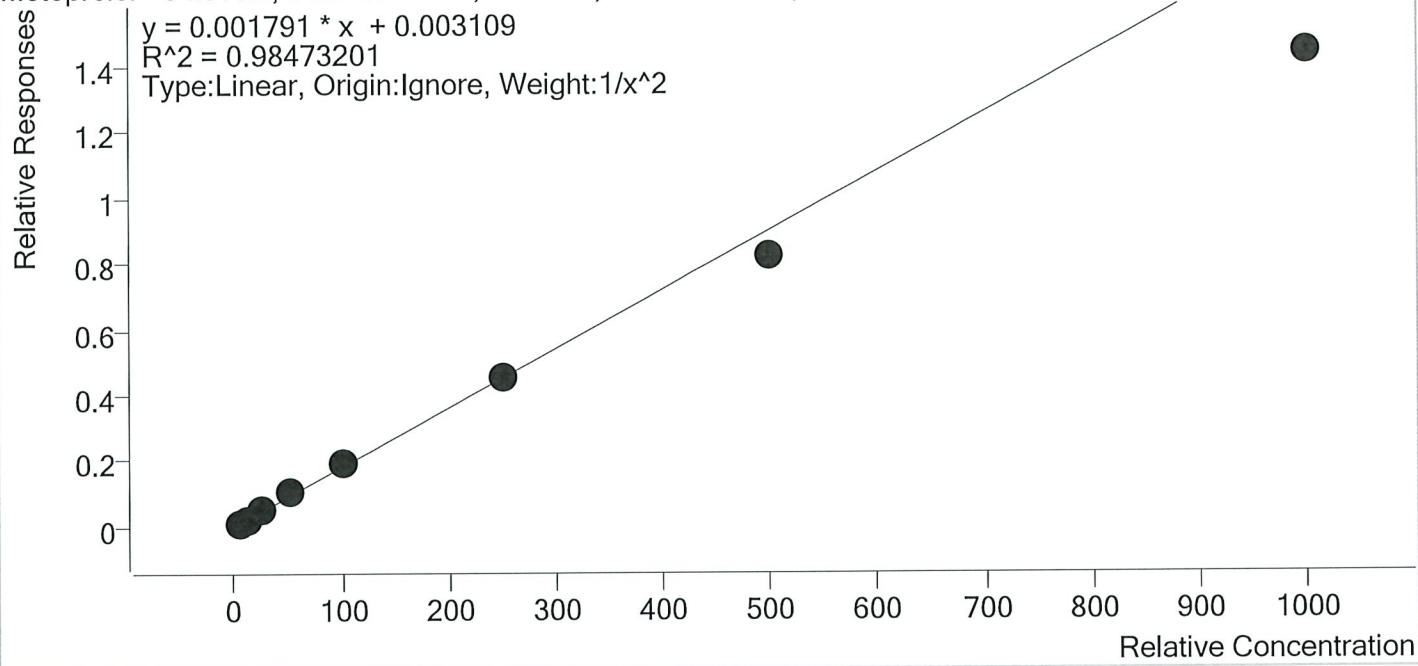
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

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



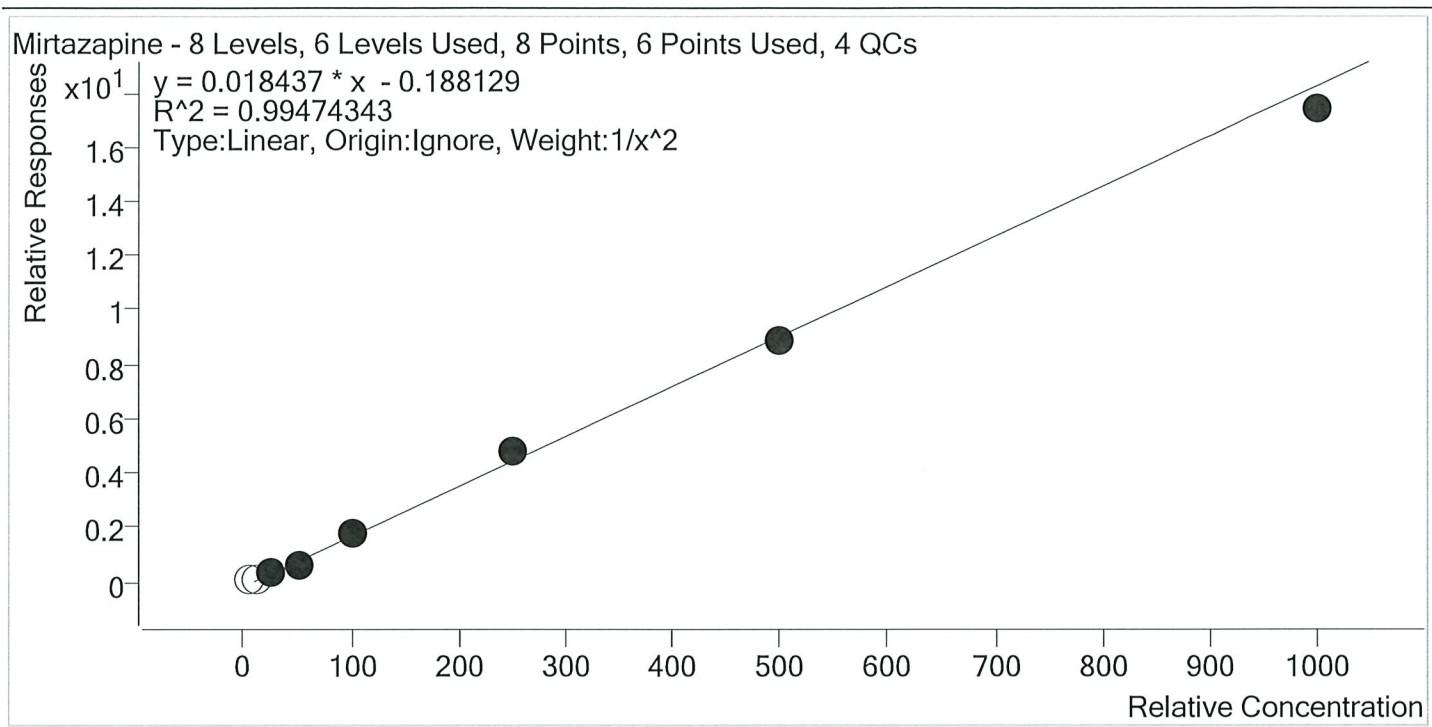
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.5
p1 Cal 2- 10ng r	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng r	3	✓	25.0	27.4	109.6
p1 Cal 4-50ng	4	✓	50.0	56.1	112.3
p1 Cal 5-100ng	5	✓	100.0	106.8	106.8
p1 Cal 6-250ng	6	✓	250.0	253.4	101.3
p1 Cal 7-500ng	7	✓	500.0	455.1	91.0
p1 Cal 8-1000ng	8	✓	1000.0	801.0	80.1

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8



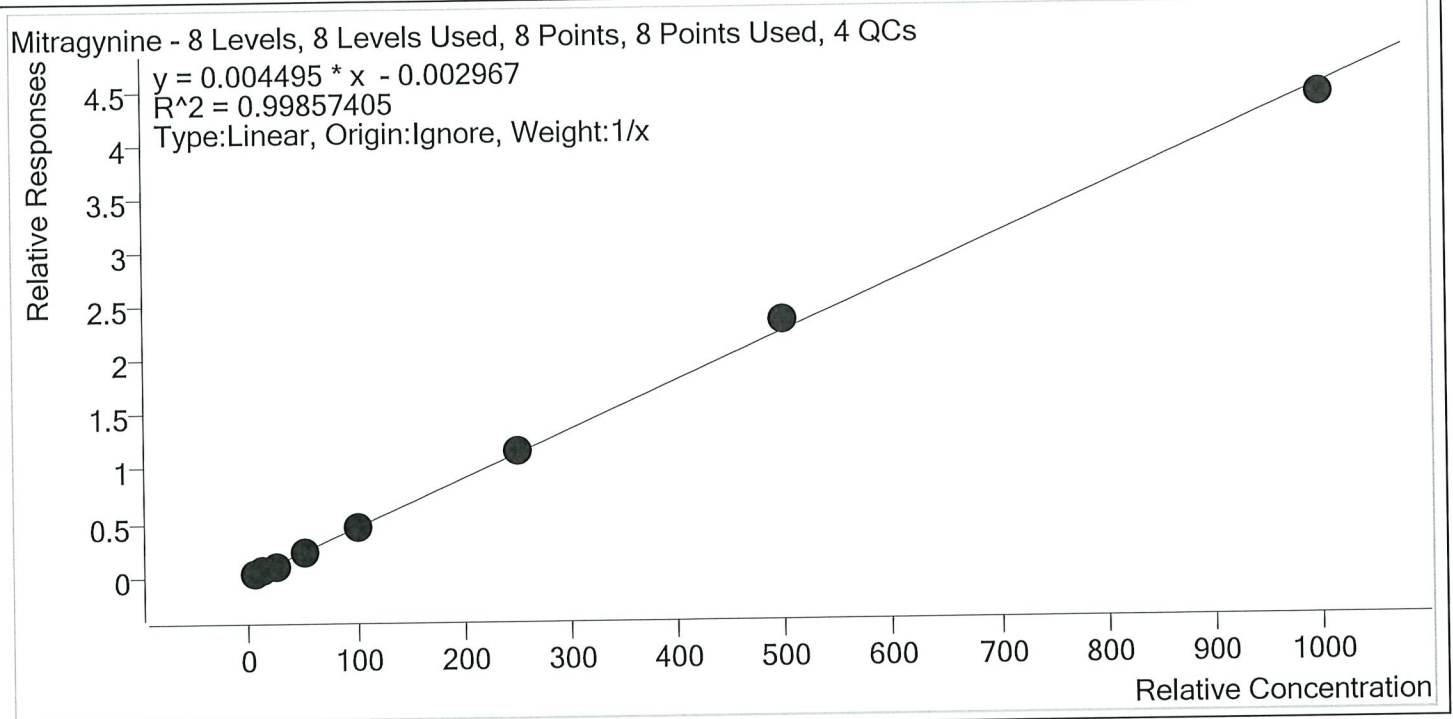
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	15.6	312.3
p1 Cal 2- 10ng r	2	×	10.0	17.2	171.6
p1 Cal 3 -25ng r	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	46.1	92.2
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	269.7	107.9
p1 Cal 7-500ng	7	✓	500.0	490.6	98.1
p1 Cal 8-1000ng	8	✓	1000.0	953.9	95.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st  
3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9



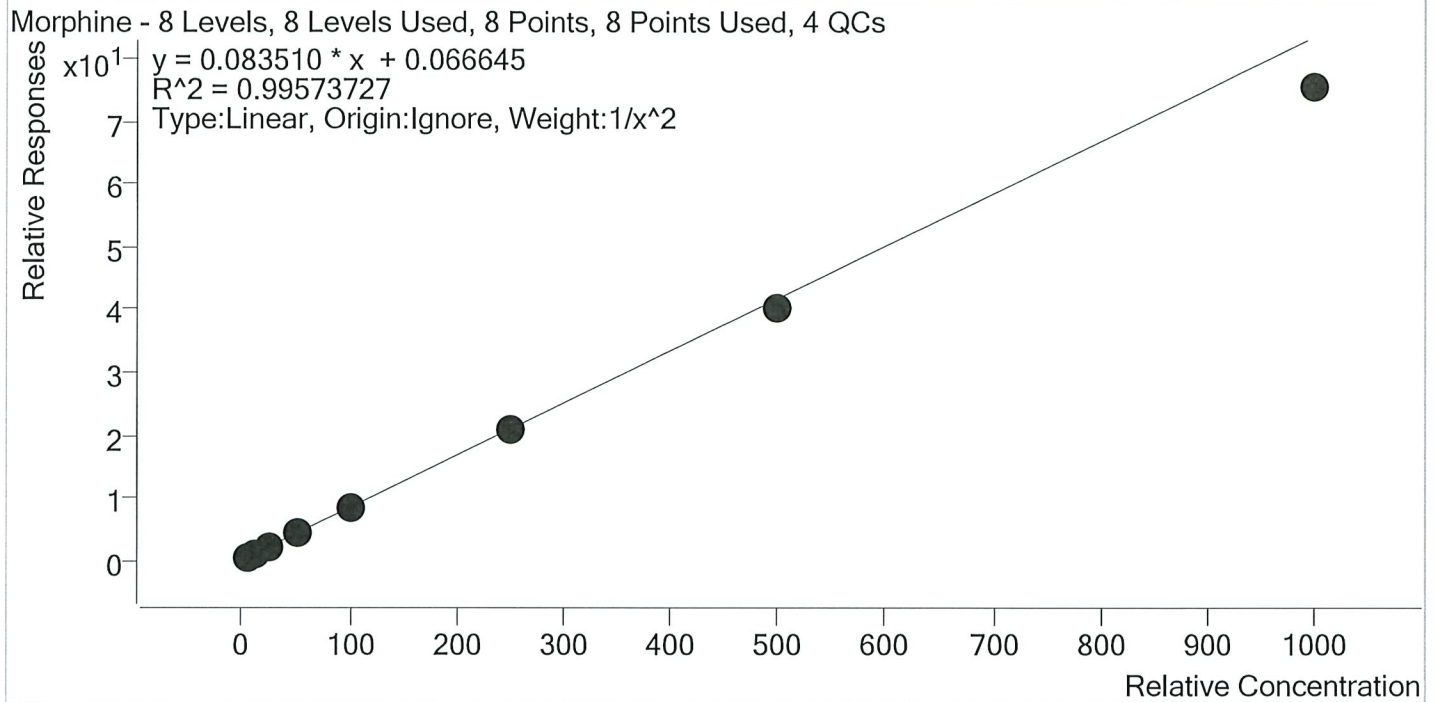
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	119.6
p1 Cal 2- 10ng r	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng r	3	✓	25.0	21.2	84.9
p1 Cal 4-50ng	4	✓	50.0	45.6	91.1
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	519.9	104.0
p1 Cal 8-1000ng	8	✓	1000.0	979.9	98.0

TS



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

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 Last Cal. Update 9/24/2019 4:19 PM  
 Analyst Name ISP\datastor  
 Analyte Morphine Internal Standard Morphine-D6



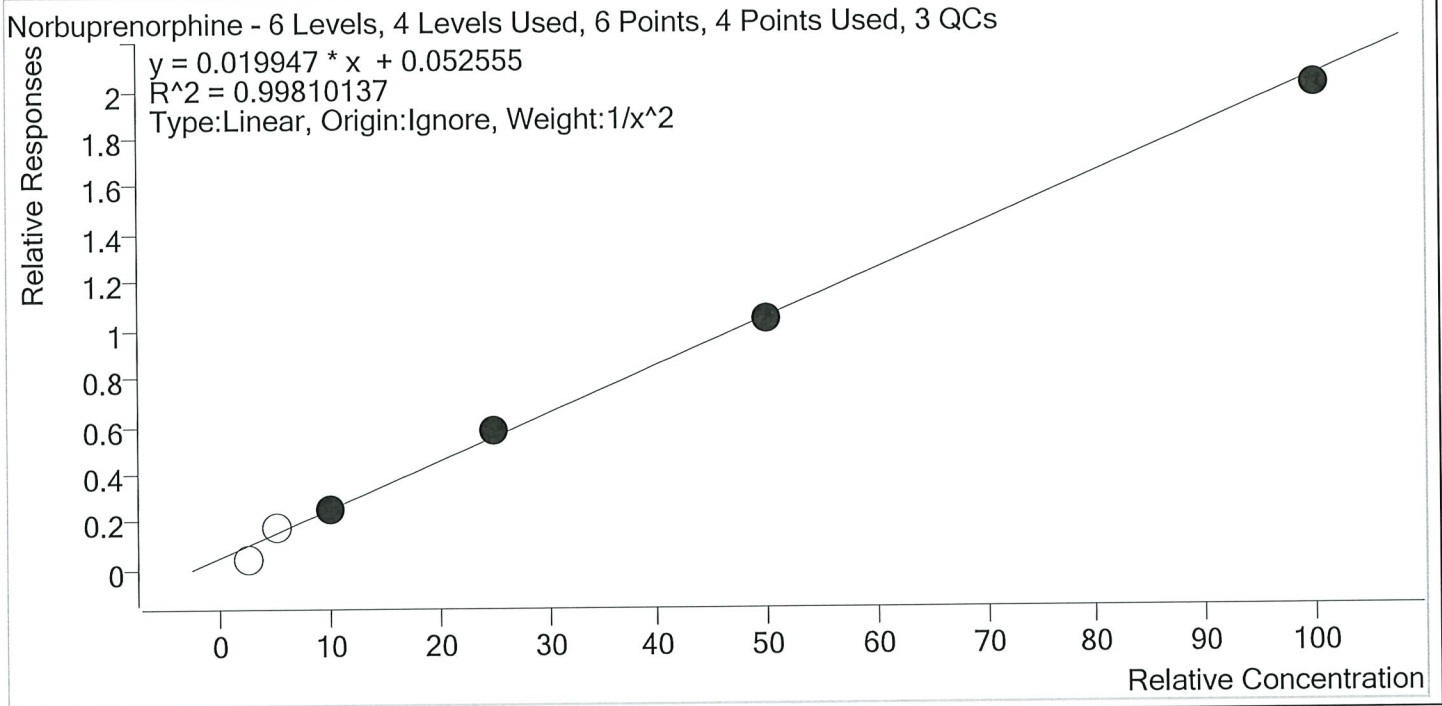
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng r	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng r	3	✓	25.0	26.5	106.1
p1 Cal 4-50ng	4	✓	50.0	53.9	107.7
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	482.0	96.4
p1 Cal 8-1000ng	8	✓	1000.0	903.5	90.3

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklst 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 3 -25ng r	3	x	2.5	0.0	0.0
p1 Cal 4-50ng	4	x	5.0	6.4	128.3
p1 Cal 5-100ng	5	✓	10.0	9.9	98.6
p1 Cal 6-250ng	6	✓	25.0	26.2	104.8
p1 Cal 7-500ng	7	✓	50.0	49.4	98.7
p1 Cal 8-1000ng	8	✓	100.0	97.9	97.9



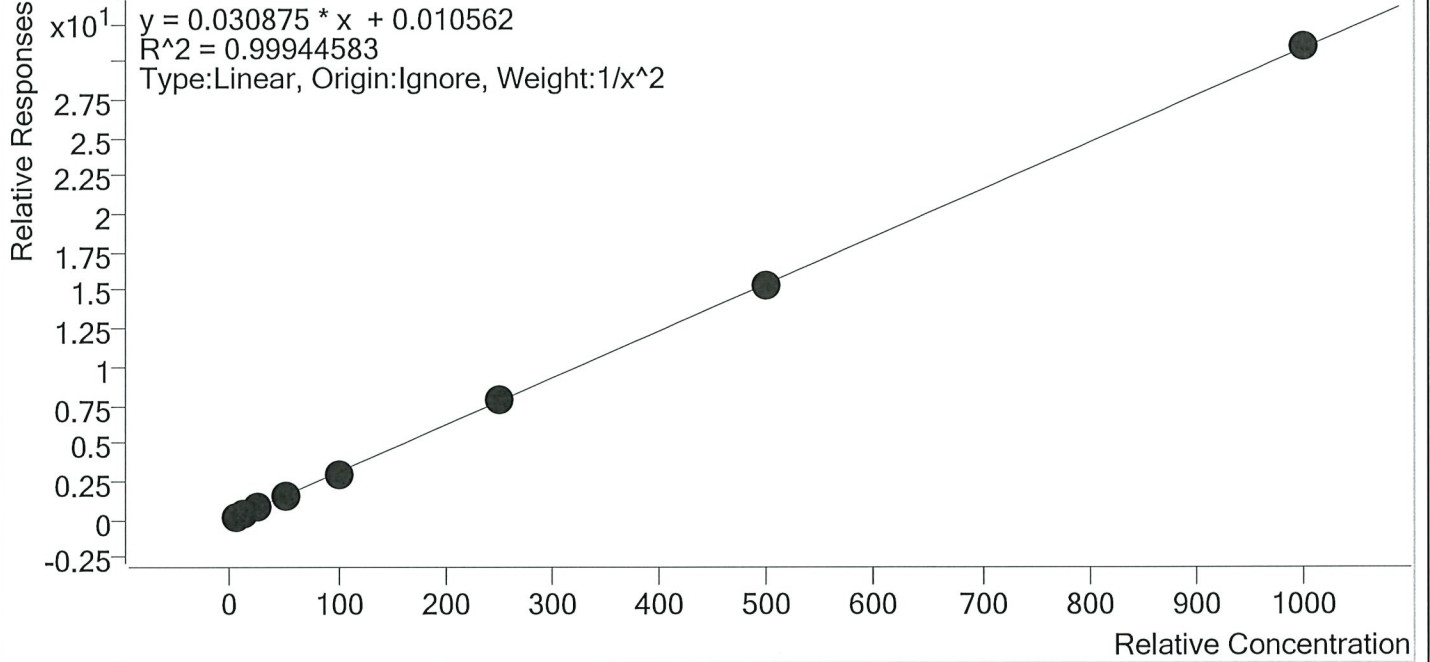
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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



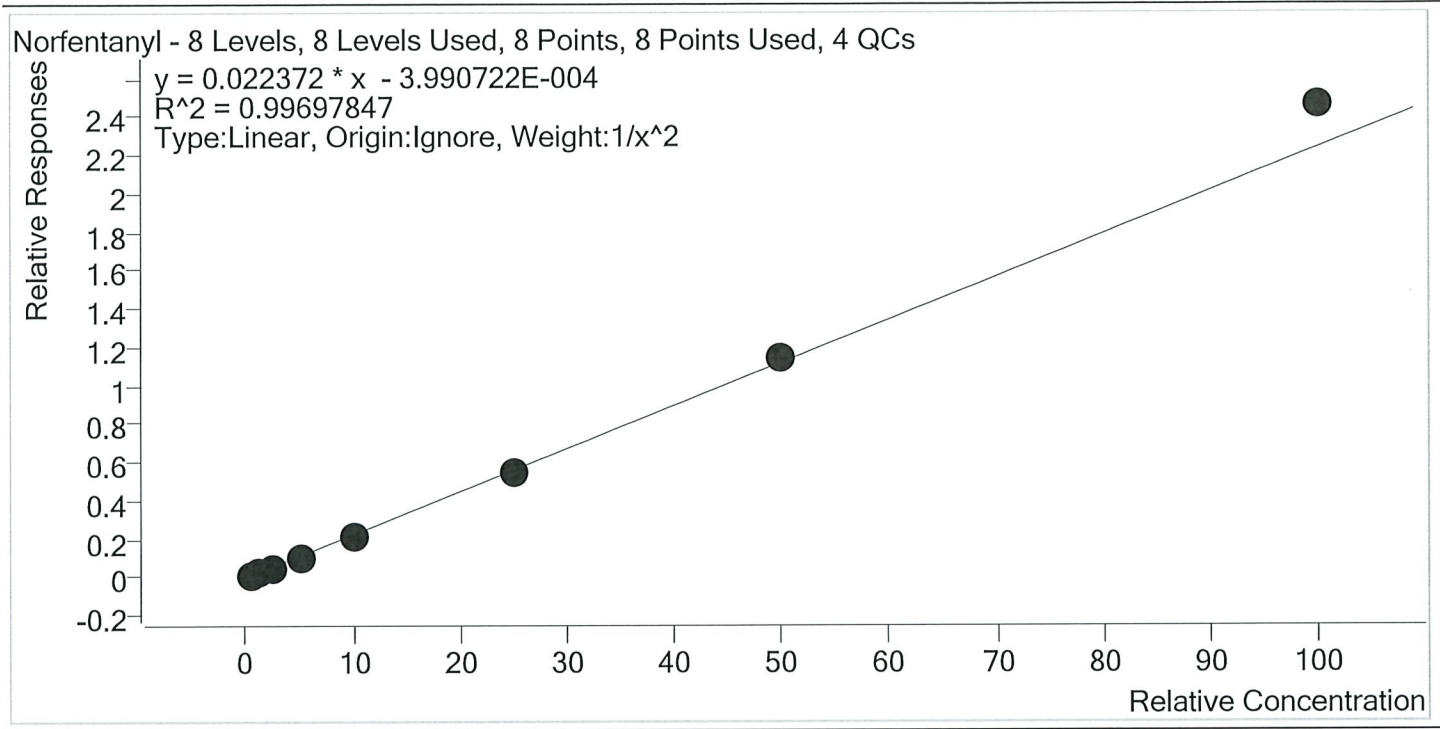
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng r	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng r	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	493.0	98.6
p1 Cal 8-1000ng	8	✓	1000.0	1003.5	100.3

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.9
p1 Cal 2- 10ng r	2	✓	1.0	1.0	98.5
p1 Cal 3 -25ng r	3	✓	2.5	2.4	96.5
p1 Cal 4-50ng	4	✓	5.0	4.8	96.8
p1 Cal 5-100ng	5	✓	10.0	9.5	94.8
p1 Cal 6-250ng	6	✓	25.0	24.8	99.0
p1 Cal 7-500ng	7	✓	50.0	51.2	102.4
p1 Cal 8-1000ng	8	✓	100.0	109.9	109.9

TS



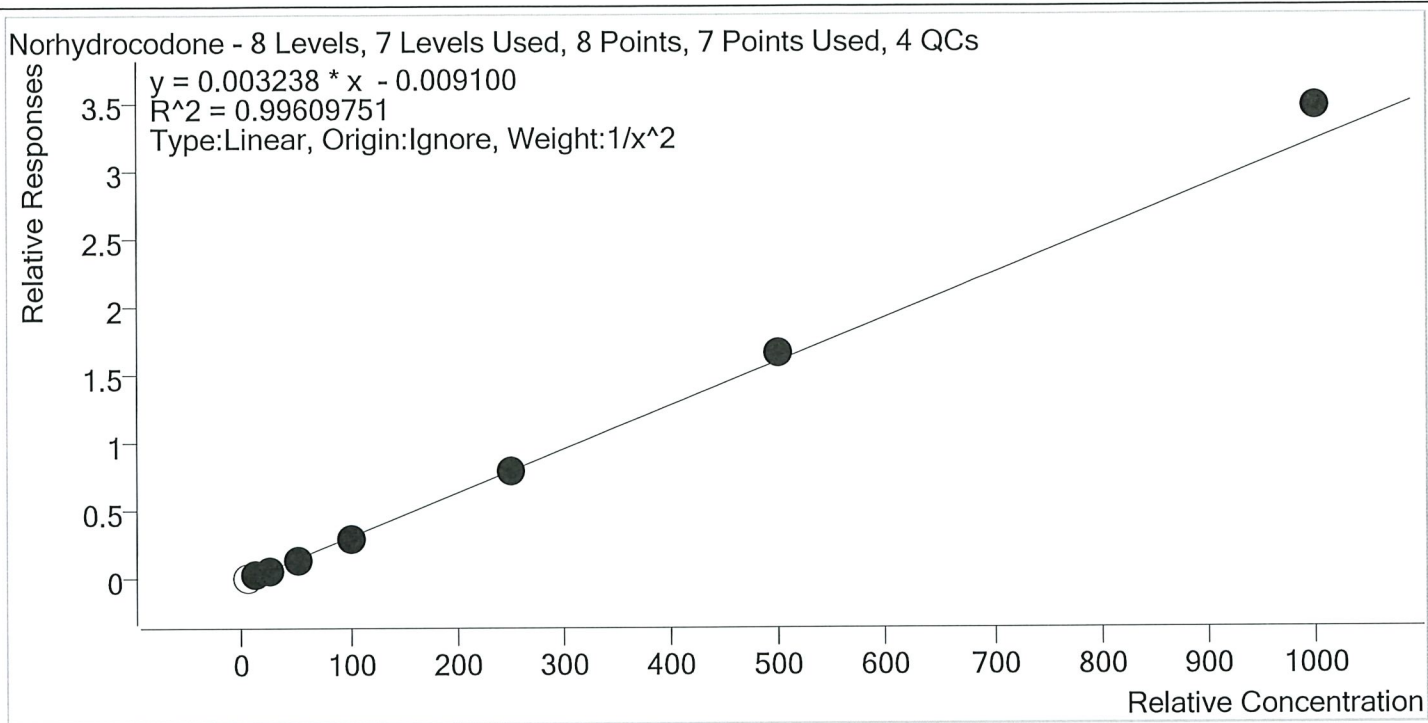
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin

**Last Cal. Update** 9/24/2019 4:19 PM

**Analyst Name** ISP\datastor

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



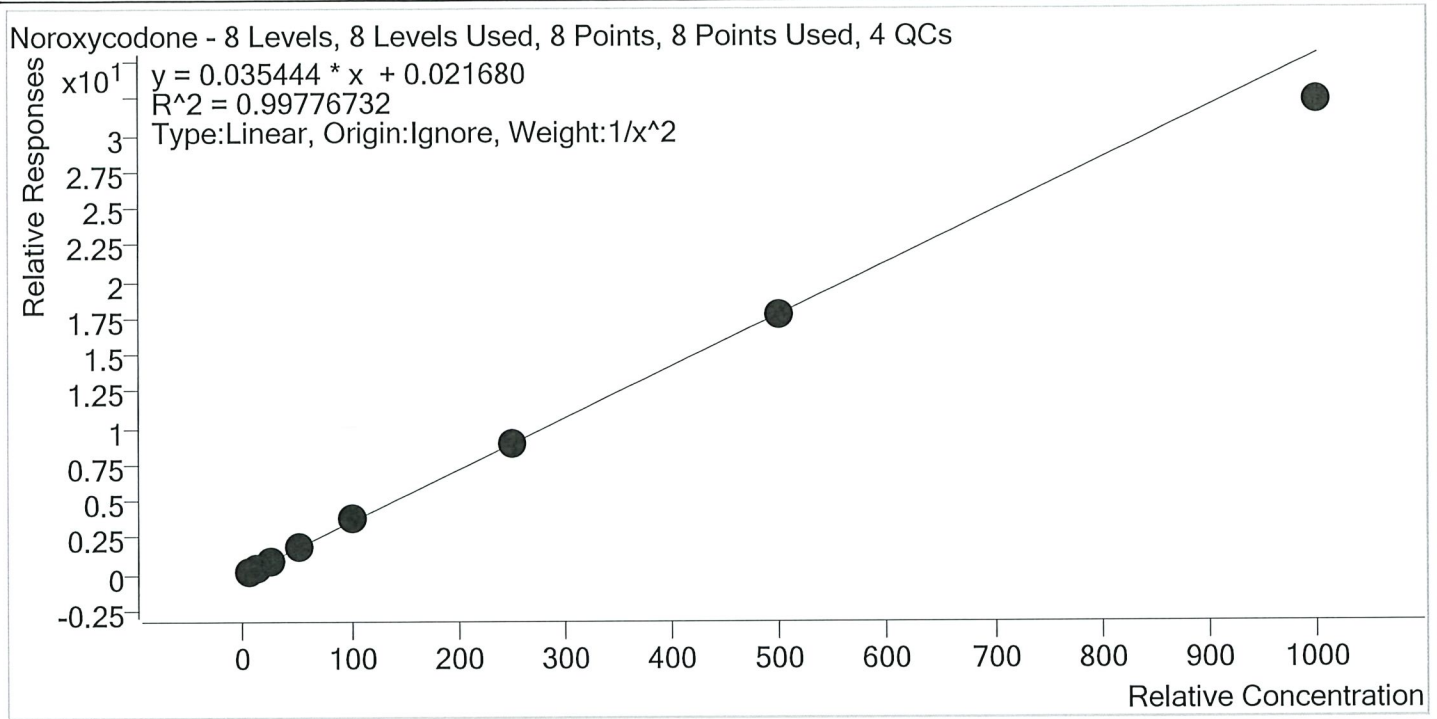
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	7.4	148.2
p1 Cal 2- 10ng r	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng r	3	✓	25.0	23.3	93.2
p1 Cal 4-50ng	4	✓	50.0	47.0	94.0
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	516.7	103.3
p1 Cal 8-1000ng	8	✓	1000.0	1078.0	107.8

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



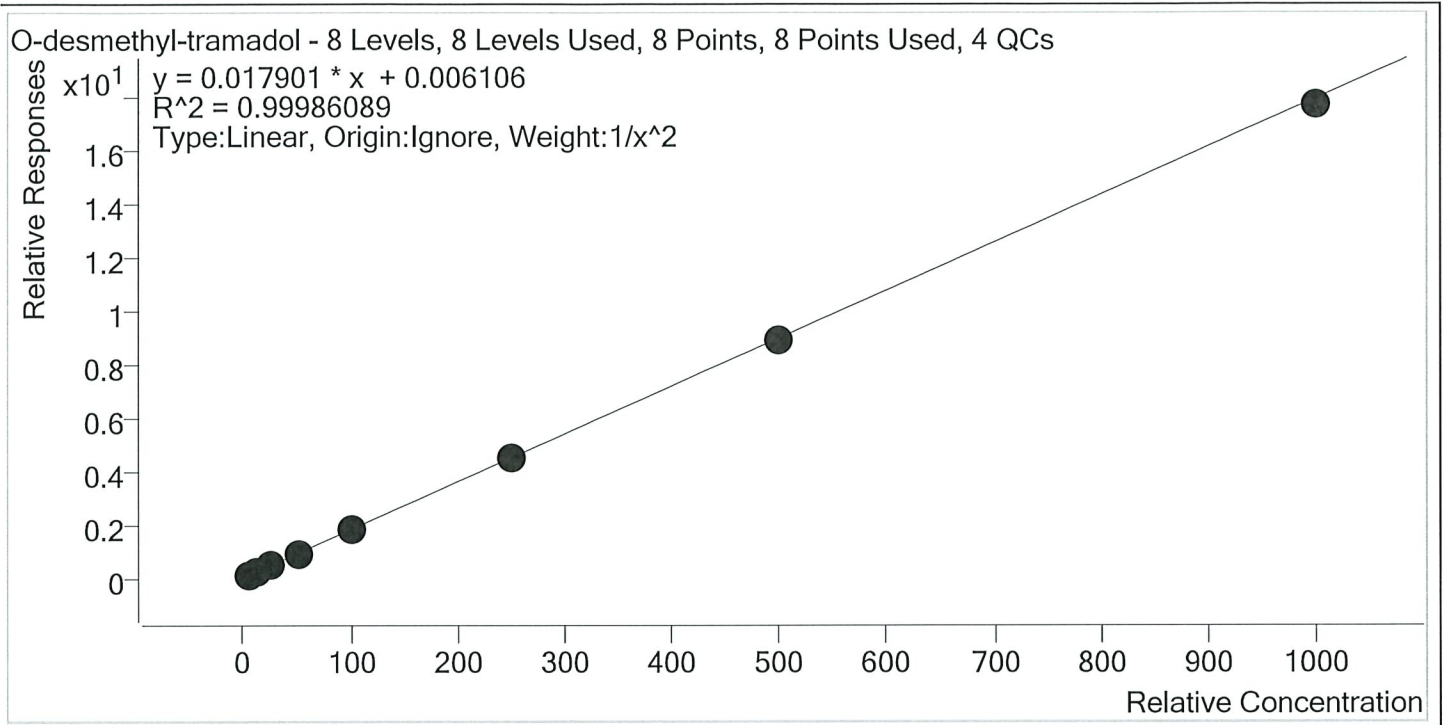
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng r	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng r	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	910.4	91.0

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



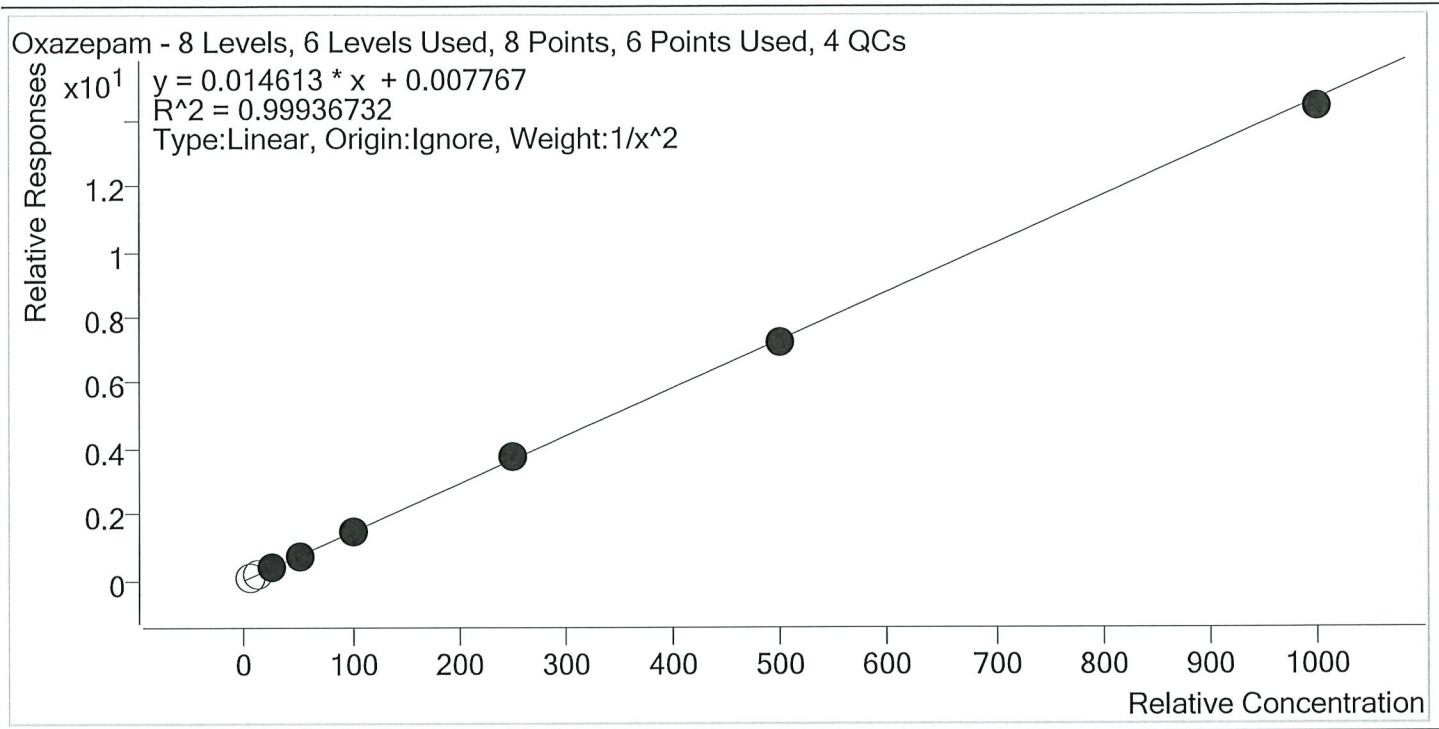
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng r	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng r	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	496.9	99.4
p1 Cal 8-1000ng	8	✓	1000.0	986.4	98.6

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/25/2019 9:39 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	5.6	112.7
p1 Cal 2- 10ng r	2	×	10.0	11.5	115.2
p1 Cal 3 -25ng r	3	✓	25.0	25.1	100.2
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	259.5	103.8
p1 Cal 7-500ng	7	✓	500.0	497.6	99.5
p1 Cal 8-1000ng	8	✓	1000.0	983.8	98.4

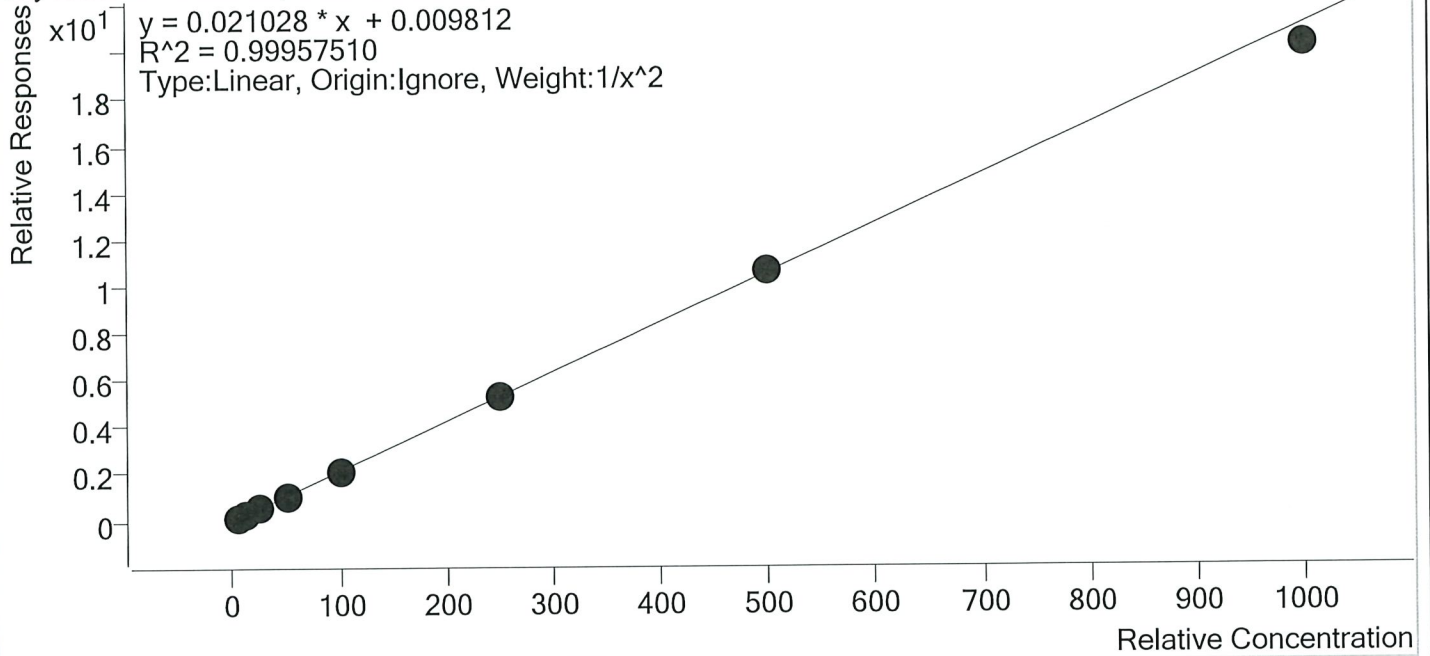
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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

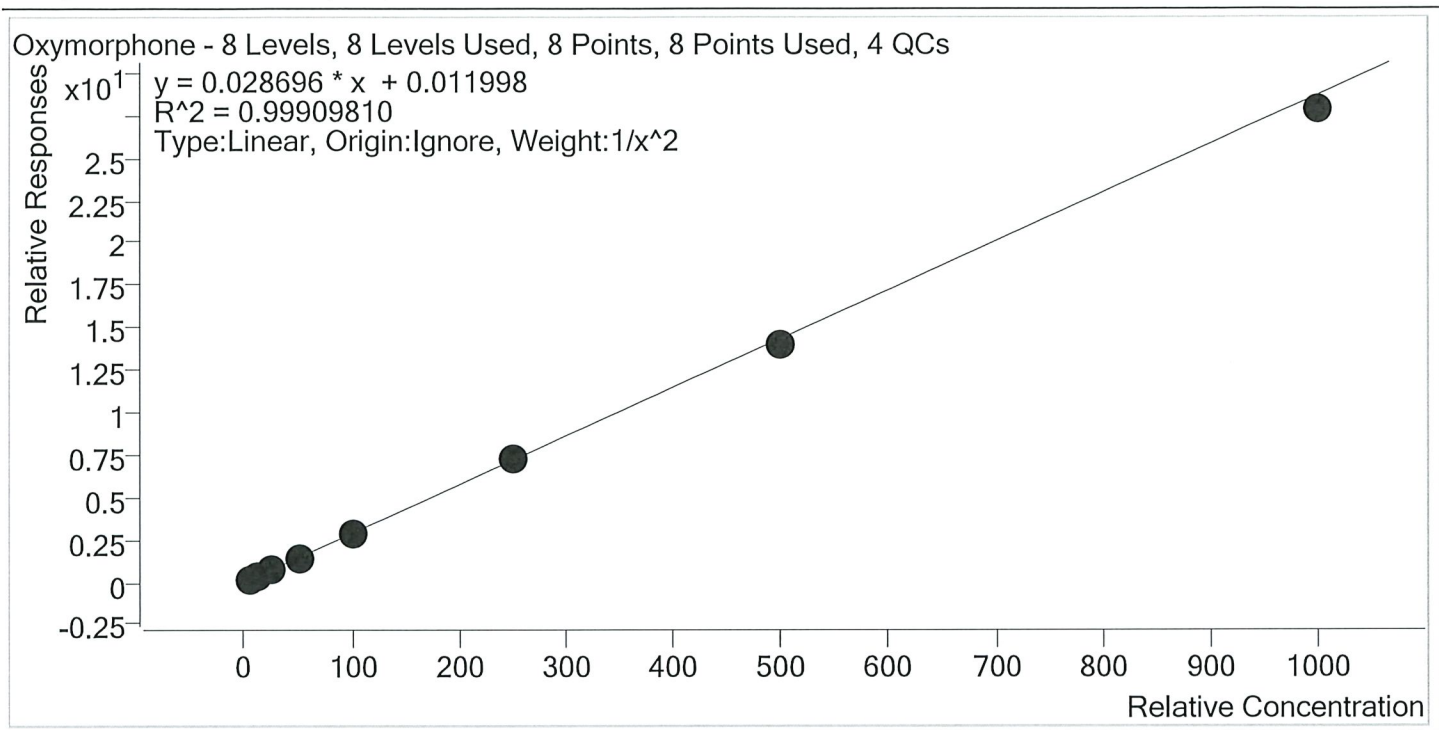


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng r	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng r	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	958.9	95.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



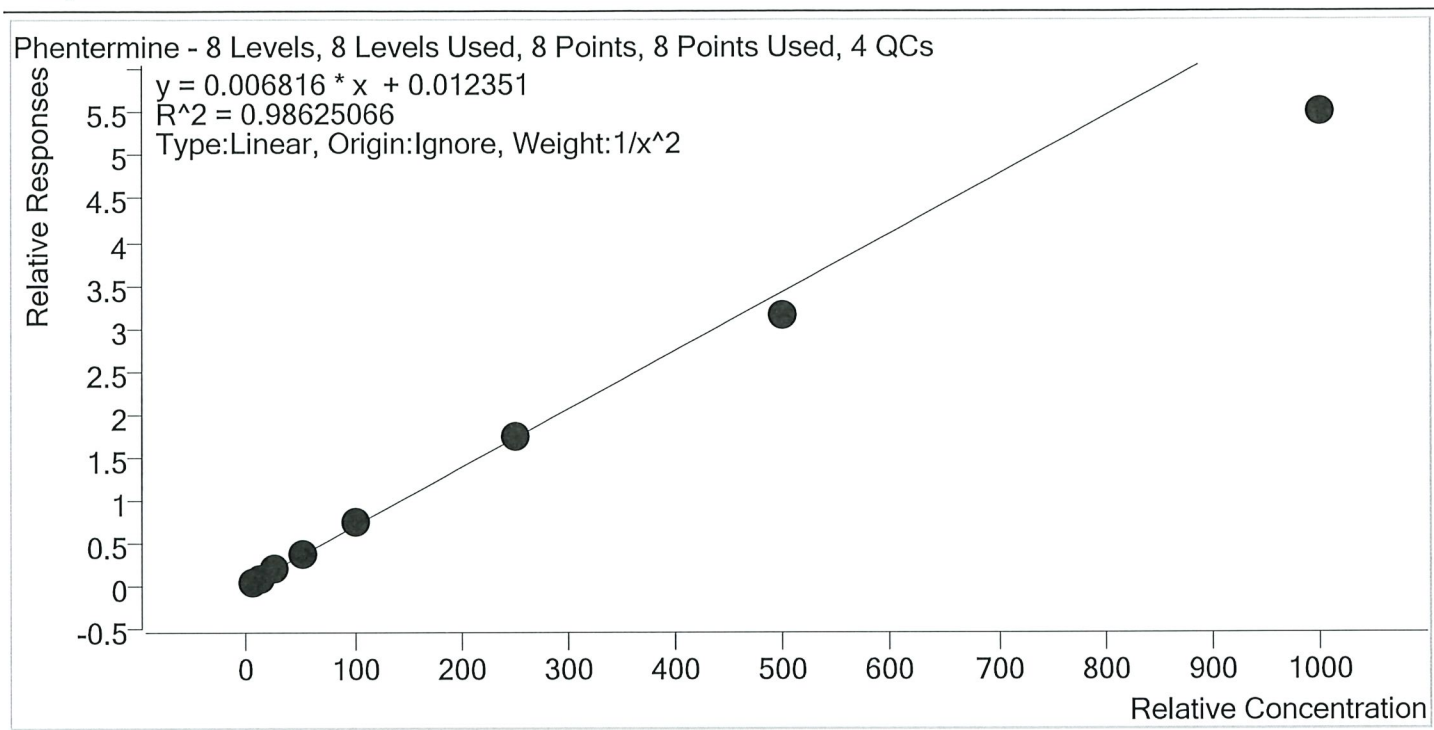
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng r	2	✓	10.0	9.8	97.5
p1 Cal 3 -25ng r	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.9	101.1
p1 Cal 7-500ng	7	✓	500.0	486.1	97.2
p1 Cal 8-1000ng	8	✓	1000.0	970.0	97.0





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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

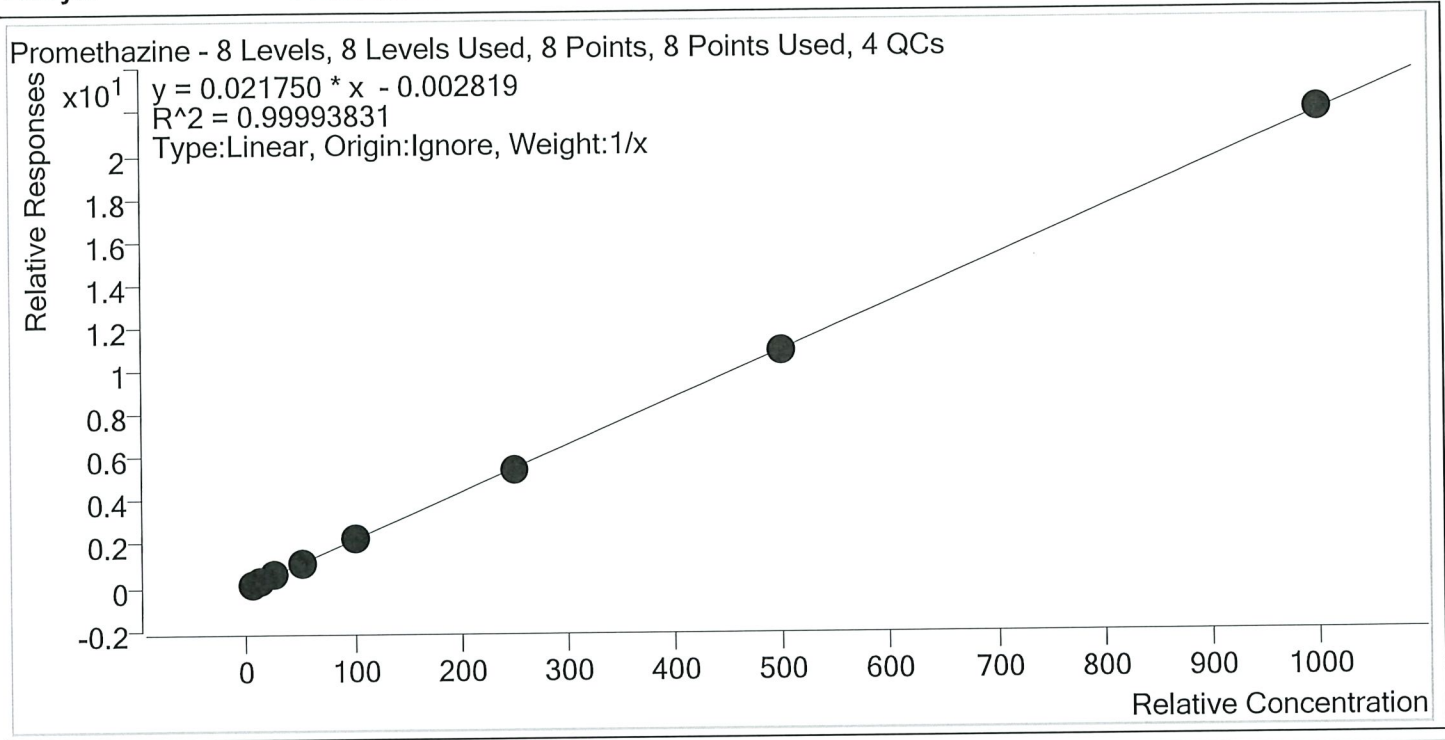


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.7
p1 Cal 2- 10ng r	2	✓	10.0	10.6	106.3
p1 Cal 3 -25ng r	3	✓	25.0	27.8	111.0
p1 Cal 4-50ng	4	✓	50.0	54.5	108.9
p1 Cal 5-100ng	5	✓	100.0	104.5	104.5
p1 Cal 6-250ng	6	✓	250.0	255.9	102.3
p1 Cal 7-500ng	7	✓	500.0	463.2	92.6
p1 Cal 8-1000ng	8	✓	1000.0	806.3	80.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.7
p1 Cal 2- 10ng r	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng r	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1005.9	100.6

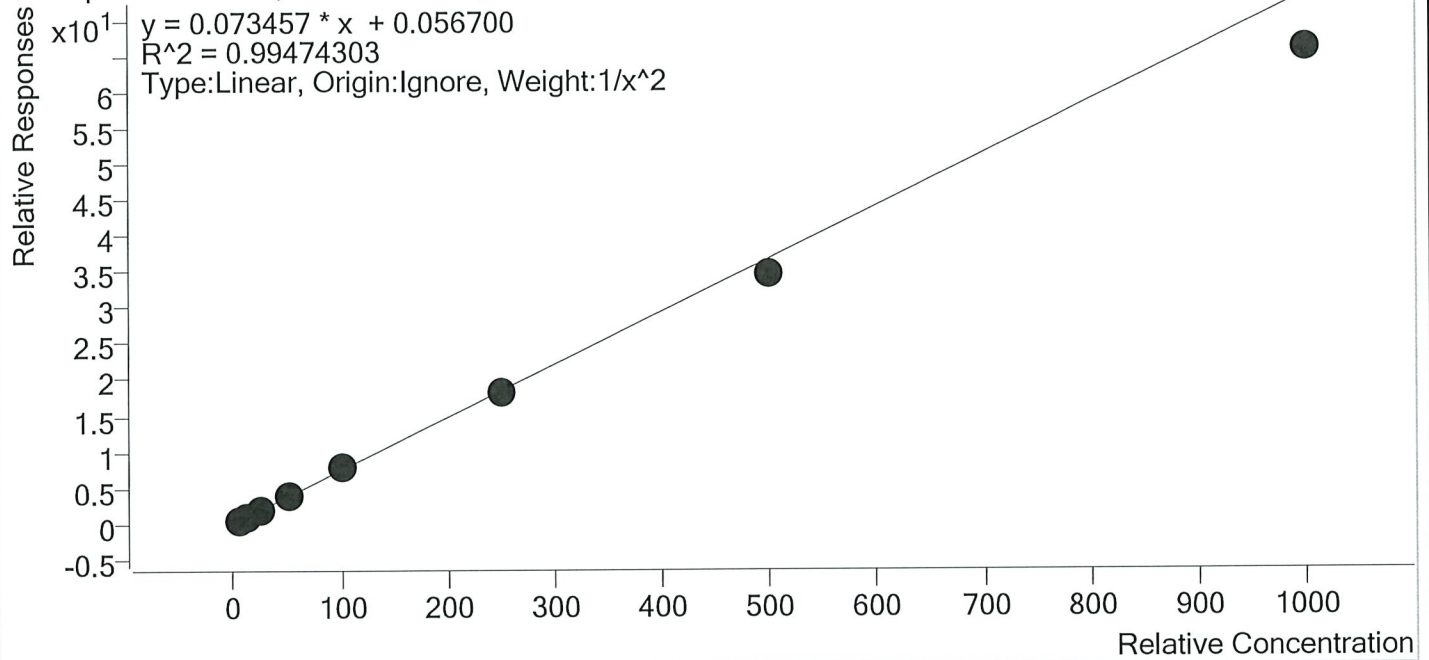
TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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

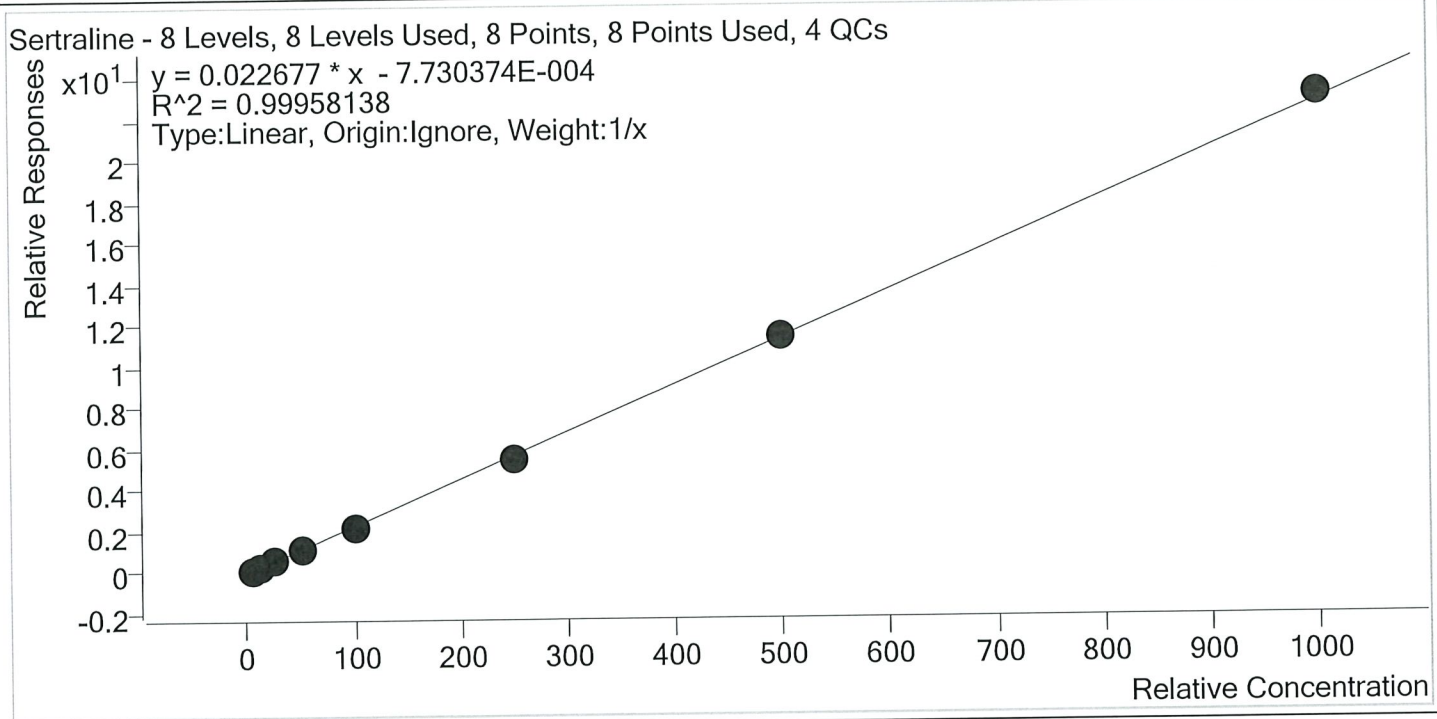


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.8
p1 Cal 3 -25ng r	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	54.4	108.8
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	246.9	98.8
p1 Cal 7-500ng	7	✓	500.0	472.4	94.5
p1 Cal 8-1000ng	8	✓	1000.0	896.6	89.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



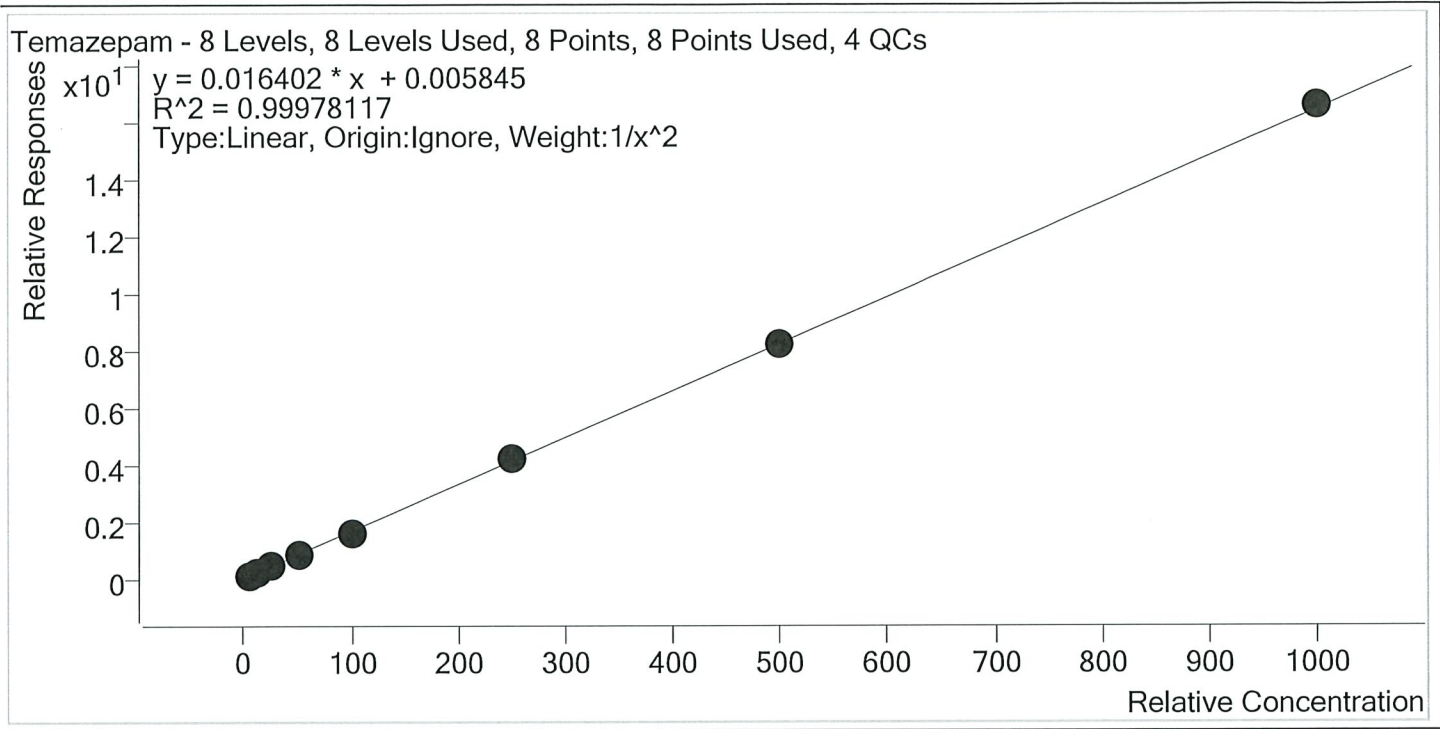
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2- 10ng r	2	✓	10.0	10.6	105.8
p1 Cal 3 -25ng r	3	✓	25.0	25.5	101.9
p1 Cal 4-50ng	4	✓	50.0	48.0	95.9
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	241.1	96.4
p1 Cal 7-500ng	7	✓	500.0	498.4	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1014.3	101.4

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResultsMDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5



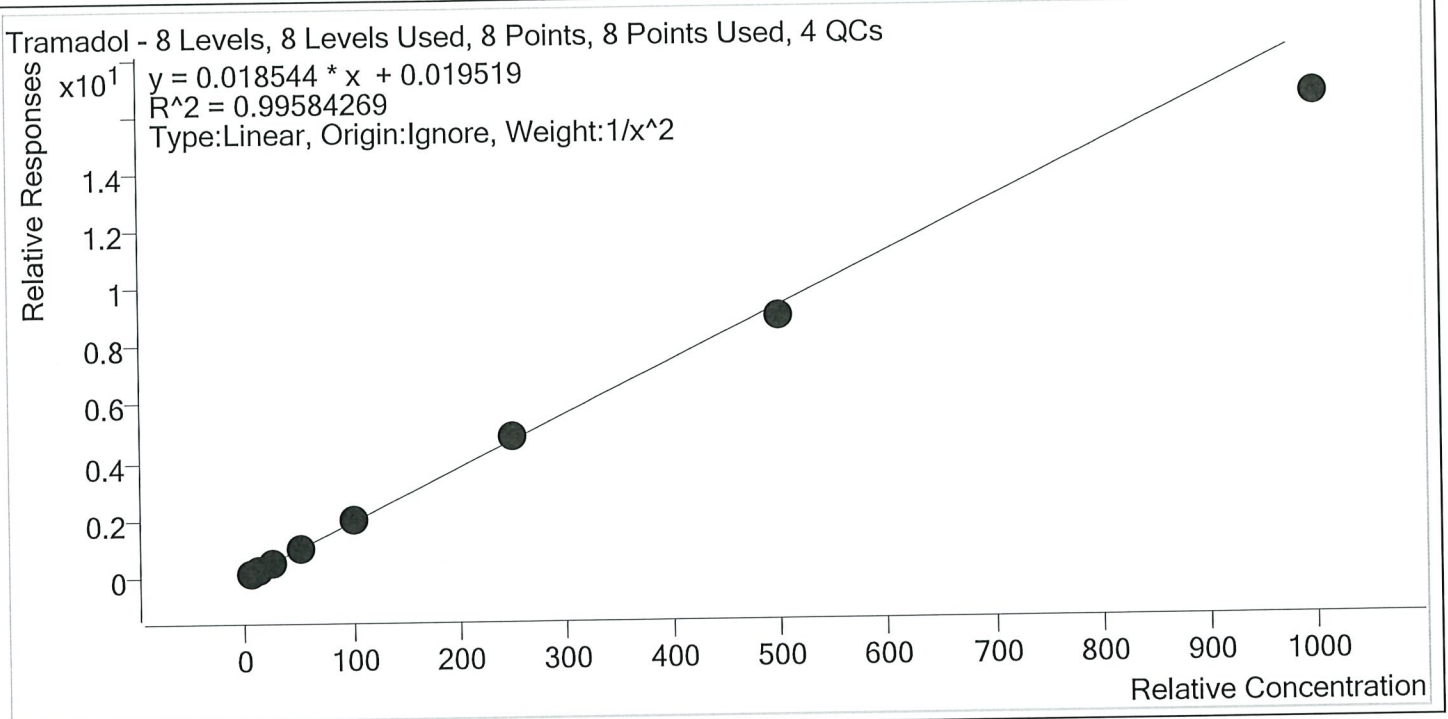
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng r	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng r	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	253.3	101.3
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1008.7	100.9

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist  
3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3



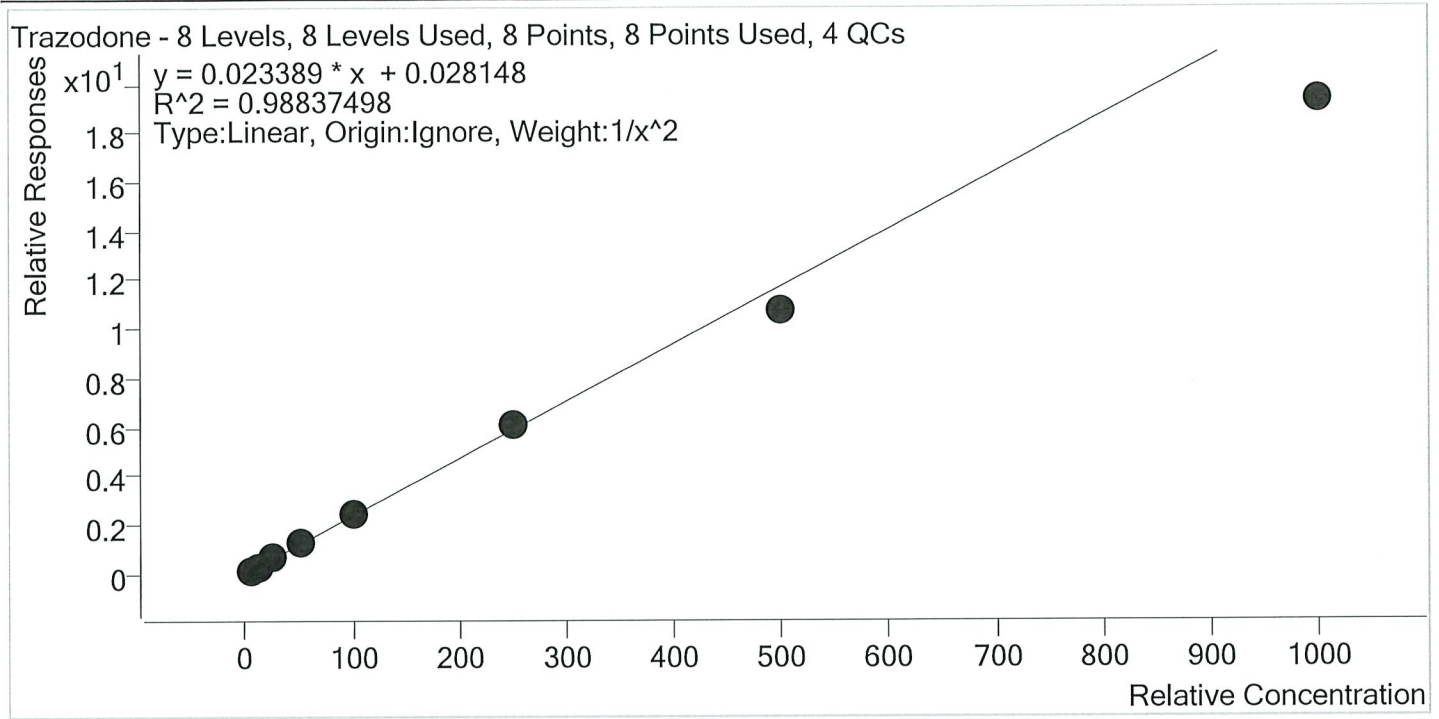
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng r	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng r	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng	4	✓	50.0	53.1	106.1
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	256.6	102.6
p1 Cal 7-500ng	7	✓	500.0	482.4	96.5
p1 Cal 8-1000ng	8	✓	1000.0	887.0	88.7

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6



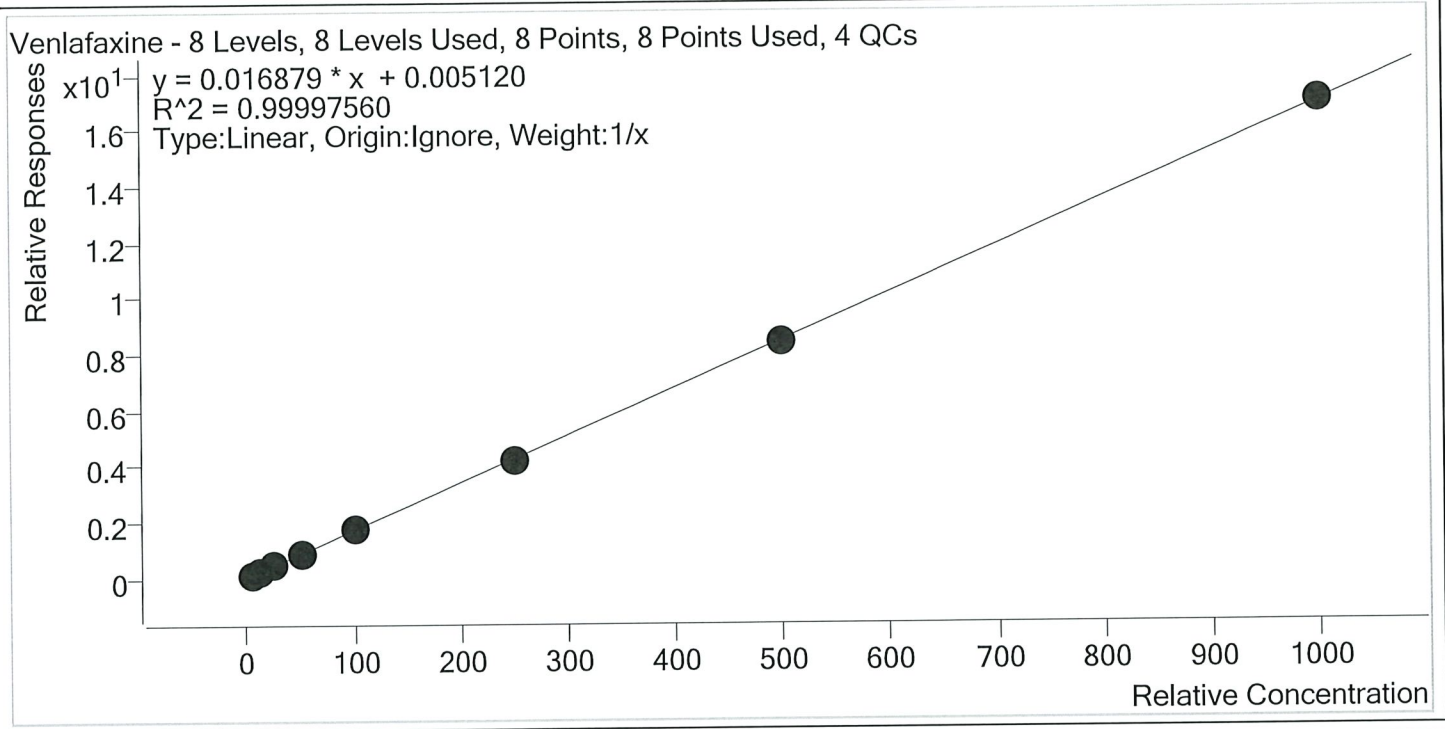
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng r	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng r	3	✓	25.0	26.3	105.3
p1 Cal 4-50ng	4	✓	50.0	56.1	112.2
p1 Cal 5-100ng	5	✓	100.0	106.5	106.5
p1 Cal 6-250ng	6	✓	250.0	257.0	102.8
p1 Cal 7-500ng	7	✓	500.0	459.6	91.9
p1 Cal 8-1000ng	8	✓	1000.0	824.8	82.5

TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng r	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng r	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
p1 Cal 7-500ng	7	✓	500.0	496.8	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1002.5	100.2

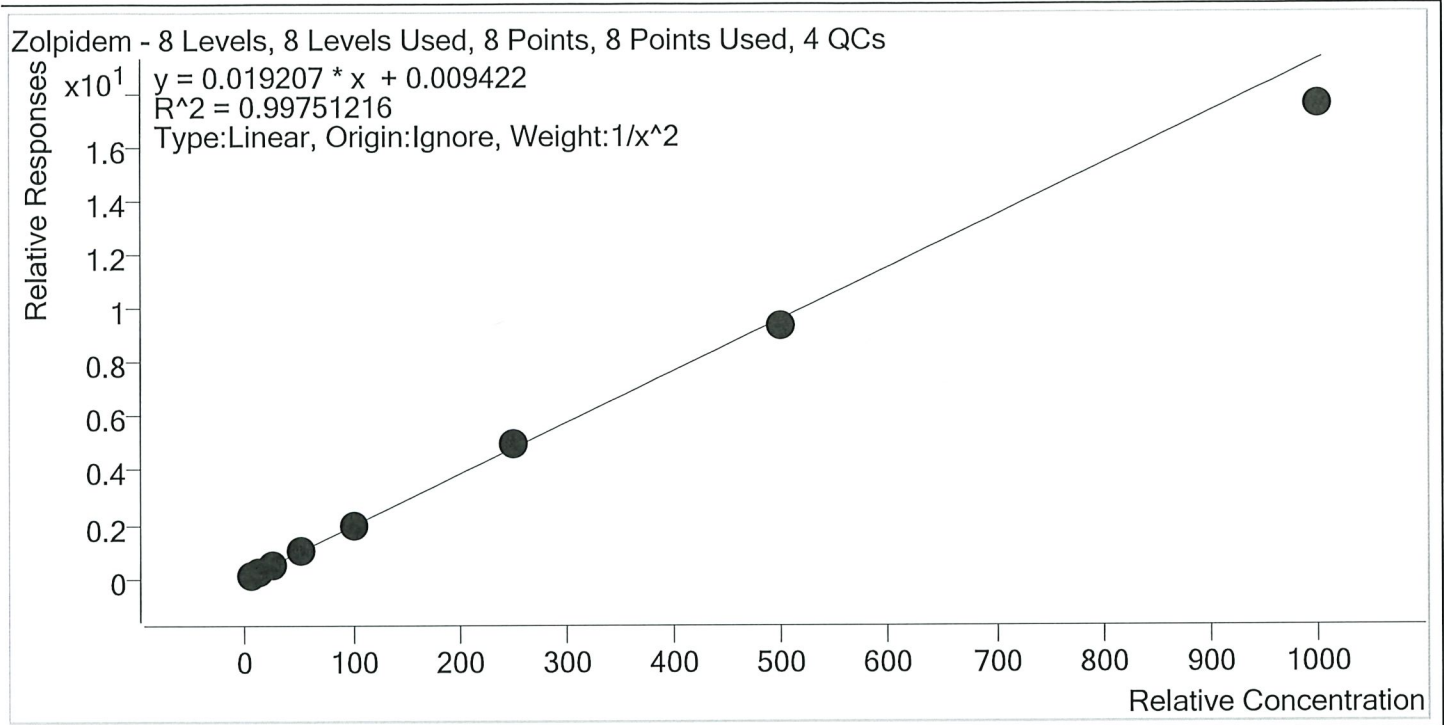


TS



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

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Last Cal. Update** 9/24/2019 4:19 PM  
**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	98.9
p1 Cal 2- 10ng r	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng r	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	486.4	97.3
p1 Cal 8-1000ng	8	✓	1000.0	913.1	91.3



# AM #28 Multi-Drug Quant. Results

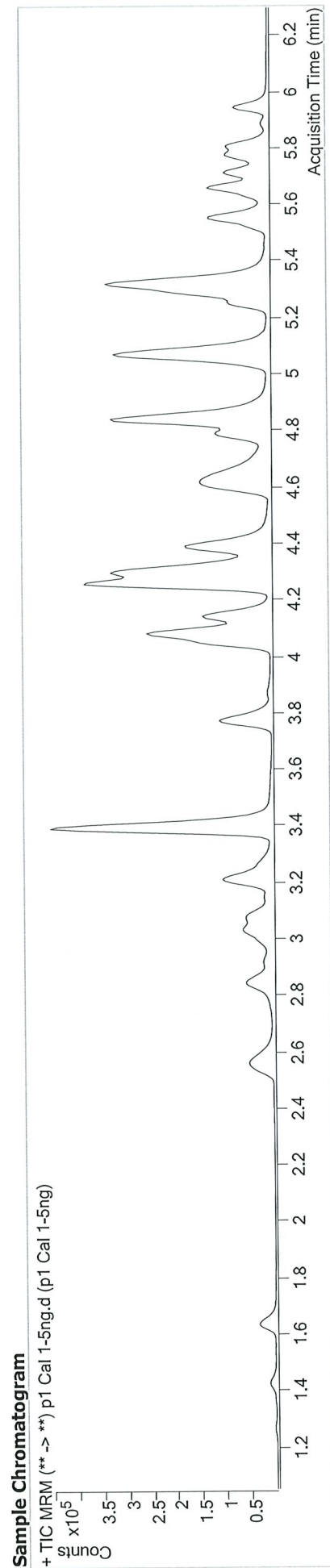
Batch results  
 Calibration Last Update  
 D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 9/24/2019 4:19:56 PM

Instrument Type  
 Acq. Method  
 Sample Position  
 Injection Volume  
 Acq. Date-Time  
 Sample Info.

Falco Cal  
 MDQ P1 Combined 092319.m  
 P1-H12  
 2  
 9/23/2019 5:09:20 PM

Data File  
 Sample  
 Operator  
 Comment

p1 Cal 1-5ng.d  
 p1 Cal 1-5ng



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	724	11988.80	72.5	900.38	26452	0.5037 ng/ml
7-aminoclonazepam	4.271	9574	1715.81	80.0	794.02	73767	3.9288 ng/ml
a-hydroxyalprazolam	5.700	368	42.05	109.3	1414.23	6173	4.8911 ng/ml
alpha-PVP	4.404	49492	408.35	47.5	131.63	413197	4.9762 ng/ml
Alprazolam	5.777	17299	240.87	107.7	754.76	87173	5.9505 ng/ml
Amphetamine	3.088	56996	758.12	52.1	636.15	91121	4.8501 ng/ml
Benzoyllecgonine	3.900	1621	163.72	6.6	54.48	12025	4.9389 ng/ml
Buprenorphine	5.699	645	62.92	18.5	471.69	49592	0.4699 ng/ml
Bupropion	4.807	41001	286.96	60.4	405.85	236538	4.6073 ng/ml
Carisoprodol	5.726	8176	898.76	50.1	15.38	72238	4.9264 ng/ml
Citalopram	5.256	20426	2295.37	43.8	∞	182007	5.0210 ng/ml
Clonazepam	5.614	2122	∞	30.2	∞	7470	5.0194 ng/ml
Cocaine	4.304	46983	5435.41	45.9	18299.48	739299	5.4073 ng/ml
Codeine	2.617	5604	45.61	107.2	611.71	45260	4.8564 ng/ml
Cyclobenzaprine	5.644	9845	23181.15	9.7	2884.28	89422	5.1246 ng/ml
Dextromethorphan	5.312	9724	503.22	80.8	158.93	86788	4.8276 ng/ml
Dextrorphan	4.147	10544	∞	214.4	861.24	289061	4.8461 ng/ml
Diazepam	5.955	12381	249.35	86.5	224.42	119085	4.9867 ng/ml

BS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	15427	3846.75	62.5	78.42	161416	4.8382	ng/ml
Diphenhydramine	5.333	42563	123.74	30.3	1664.91	670038	5.0195	ng/ml
Doxylamine	4.628	89886	595.83	97.5	3629.53	667166	4.8906	ng/ml
EDDP	5.298	31676	3540.38	43.5	7511.15	358157	4.9920	ng/ml
Fentanyl	5.106	930	∞	86.6	2158.93	117295	0.5025	ng/ml
Fluoxetine	5.722	10748	828.90	7.9	∞	85220	4.9419	ng/ml
Hydrocodone	3.065	11739	34.47	36.3	68.96	155627	5.0476	ng/ml
Hydromorphone	1.648	11719	336.43	75.3	144.63	84546	5.0130	ng/ml
Ketamine	4.067	43245	3809.29	36.8	∞	339337	4.8992	ng/ml
Lamotrigine	4.302	3387	957.67	81.3	∞	339337	4.9362	ng/ml
Lorazepam	5.748	709	26.30	55.9	3.97	7470	7.6868	ng/ml
Meprobamate	4.922	2266	∞	26.1	∞	26089	5.0412	ng/ml
Methadone	5.668	17553	594.85	57.8	267.75	157160	5.1488	ng/ml
Methamphetamine	3.275	32105	730.57	43.0	74.71	303572	4.8230	ng/ml
Metoprolol	4.354	9945	∞	93.2	5661.20	859554	4.7230	ng/ml
Mirtazapine	4.650	41236	4362.63	52.0	6181.22	413197	15.6169	ng/ml
Mitragynine	5.234	3759	6102.45	36.2	1143.33	157160	5.9808	ng/ml
Morphine	1.280	2659	14139.07	21.2	165.99	5664	4.8231	ng/ml
Nordiazepam	5.895	2660	∞	58.9	371.71	16109	5.0067	ng/ml
Norfentanyl	4.115	5953	2803.26	35.4	178.65	540986	0.5097	ng/ml
Norhydrocodone	3.100	549	34.44	14.4	157.59	36833	7.4104	ng/ml
Noroxycodone	2.943	8117	108.34	48.8	302.41	41308	4.9321	ng/ml
O-desmethyl-tramadol	3.401	102932	3214.38	5.8	394.61	1077832	4.9939	ng/ml
Oxazepam	5.758	1026	4.47	65.6	4.96	11381	4.2180	ng/ml
Oxycodone	2.868	22947	339.10	30.9	182.87	200718	4.9703	ng/ml
Oxymorphone	1.430	5979	184.58	48.3	121.36	38393	5.0086	ng/ml
Phentermine	3.812	13449	339.04	2.4	7.27	303763	4.6836	ng/ml
Promethazine	5.562	24622	1886.82	31.7	390.99	221737	5.2348	ng/ml
Quetiapine	5.537	30141	75602.90	54.8	2061.03	73259	4.8291	ng/ml
Sertraline	5.784	7647	112.36	95.1	529.75	66727	5.0880	ng/ml
Temazepam	5.818	10394	120.18	37.5	7.41	118210	5.0044	ng/ml
Tramadol	4.274	94311	671.46	3.3	29.89	859554	4.8642	ng/ml
Trazodone	5.085	23171	1056.04	74.2	73491.29	164818	4.8074	ng/ml
Venlafaxine	5.074	57497	3456.73	34.9	389.58	640486	5.0152	ng/ml
Zolpidem	4.864	81337	4132.81	32.9	11213.08	779030	4.9454	ng/ml

15

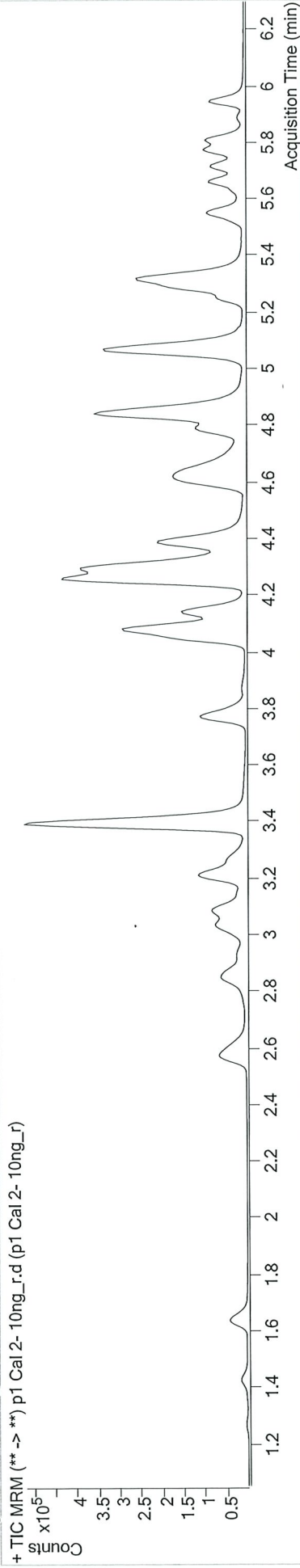


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
**Calibration Last Update** 9/24/2019 4:19:56 PM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 2- 10ng_r.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 2- 10ng_r
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Operator</b>	
<b>Sample Position</b>	P1-G12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/24/2019 1:02:19 AM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.170	1487	∞	63.9	3646.92	27634	1.0305 ng/ml
7-aminoclonazepam	4.271	19047	375.08	78.9	1799.07	75861	9.9092 ng/ml
a-hydroxyalprazolam	5.700	898	87.10	85.4	3877.57	6785	10.3153 ng/ml
alpha-PVP	4.404	101658	608.94	47.9	278.39	430146	10.0504 ng/ml
Alprazolam	5.777	34562	559.15	109.0	634.07	91711	10.2518 ng/ml
Amphetamine	3.095	110307	1504.63	53.9	3626.13	95891	10.3198 ng/ml
Benzoylcegonine	3.900	3035	766.85	7.7	219.07	12884	10.2719 ng/ml
Buprenorphine	5.699	860	37.56	12.7	18.47	30486	1.0872 ng/ml
Bupropion	4.807	69976	641.23	60.2	331.62	212172	9.6285 ng/ml
Carisoprodol	5.726	17568	267.97	53.3	61.64	76739	10.2583 ng/ml
Citalopram	5.256	26717	∞	41.5	∞	123192	9.9140 ng/ml
Clonazepam	5.614	4278	293.83	27.9	∞	8092	9.8596 ng/ml
Cocaine	4.304	97247	7187.32	46.0	73055.30	771591	10.2194 ng/ml
Codeine	2.623	11285	1534.37	108.7	5485.95	47818	10.0604 ng/ml
Cyclobenzaprine	5.644	9718	∞	12.4	274.80	46527	9.6291 ng/ml
Dextromethorphan	5.312	12059	579.89	81.7	915.94	53680	10.1758 ng/ml
Dextroproprian	4.147	20028	305.19	209.8	1069.40	282349	9.9659 ng/ml
Diazepam	5.955	24416	283.51	91.2	271.42	123411	9.8870 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	31968	3143.27	63.5	7743.16	169899	10.3946 ng/ml
Diphenhydramine	5.333	57308	161.50	30.1	∞	454064	10.1253 ng/ml
Doxylamine	4.628	168928	13550.24	99.2	11501.66	633859	10.0578 ng/ml
EDDP	5.298	53511	∞	43.5	66.62	307278	10.0956 ng/ml
Fentanyl	5.106	1095	328.21	86.9	794.18	62005	1.0456 ng/ml
Fluoxetine	5.722	11631	∞	7.0	∞	46078	10.1583 ng/ml
Hydrocodone	3.065	23259	20.84	36.1	67.50	167458	9.6408 ng/ml
Hydromorphone	1.648	24825	734.64	75.3	343.13	93526	9.8885 ng/ml
Ketamine	4.067	88752	2662.50	37.4	1693.44	364829	10.1382 ng/ml
Lamotrigine	4.302	6545	3216.81	80.6	3572.64	364829	9.9340 ng/ml
Lorazepam	5.748	1526	24.49	59.4	5.61	8092	12.1389 ng/ml
Meprobamate	4.922	4431	62.11	27.9	22.00	27590	9.9161 ng/ml
Methadone	5.668	21458	1522.12	54.2	315.62	99043	9.9304 ng/ml
Methamphetamine	3.275	66502	2039.34	43.9	148.62	331137	10.2520 ng/ml
Metoprolol	4.346	19968	18155.72	94.3	∞	915185	10.4437 ng/ml
Mirtazapine	4.650	55134	13798.64	52.4	74352.39	430146	17.1562 ng/ml
Mitragynine	5.234	4097	424.88	34.6	1436.13	99043	9.8636 ng/ml
Morphine	1.280	5834	∞	18.7	1209.98	6278	10.3295 ng/ml
Nordiazepam	5.901	5453	∞	58.5	154.15	17110	9.9797 ng/ml
Norfentanyl	4.108	12807	3630.00	37.6	157.81	591627	0.9855 ng/ml
Norhydrocodone	3.106	938	117.65	19.1	∞	38186	10.3960 ng/ml
Noroxycodone	2.950	16593	∞	46.6	133.13	43668	10.1088 ng/ml
O-desmethyl-tramadol	3.401	212548	2650.47	5.8	809.99	1148883	9.9939 ng/ml
Oxazepam	5.758	2097	33.72	75.3	5.02	11912	10.1959 ng/ml
Oxycodone	2.881	46440	603.70	30.4	407.59	210324	10.0339 ng/ml
Oxymorphone	1.437	11619	119.79	47.8	90.46	39809	9.7533 ng/ml
Phentermine	3.812	25949	540.86	2.4	14.27	306107	10.6254 ng/ml
Promethazine	5.562	25684	6087.31	31.1	220.96	118566	10.0891 ng/ml
Quetiapine	5.544	40597	102203.83	54.7	59595.78	50022	10.2767 ng/ml
Sertraline	5.791	8437	113.23	91.3	179.23	35274	10.5810 ng/ml
Temazepam	5.818	21240	136.63	34.3	∞	125003	10.0030 ng/ml
Tramadol	4.273	191595	384.84	3.5	78.77	915185	10.2368 ng/ml
Trazodone	5.085	27187	3298.91	76.4	48511.75	101282	10.2734 ng/ml
Venlafaxine	5.074	113039	5511.28	35.5	622.33	658134	9.8725 ng/ml
Zolpidem	4.864	163283	7208.23	33.4	5100.00	808357	10.0262 ng/ml

15

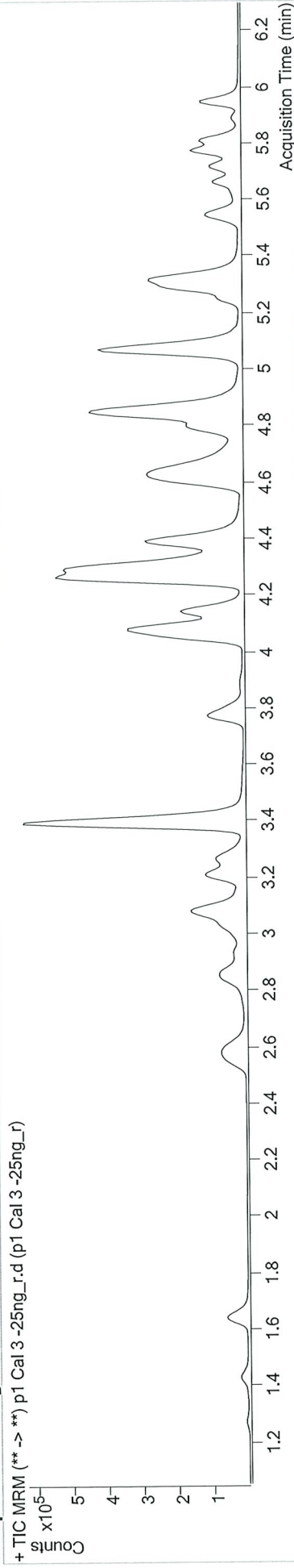


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wkst 3703.batch.bin  
**Calibration Last Update** 9/24/2019 4:19:56 PM

<b>Instrument Type</b>	Falco Cal	<b>Data File</b>	p1 Cal 3 -25ng_r.d
<b>Acq. Method</b>	MDQ P1 Combined 092319.m	<b>Sample Operator</b>	p1 Cal 3 -25ng_r
<b>Sample Position</b>	P1-F12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/24/2019 1:12:49 AM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	3226	∞	71.3	9288.03	28449	2.2172 ng/ml
7-aminoclonazepam	4.271	45669	∞	81.2	12455.89	75549	27.3350 ng/ml
a-hydroxyalprazolam	5.700	2214	∞	86.7	106.74	6317	26.5740 ng/ml
alpha-PVP	4.404	245270	17860.35	48.1	442.31	424141	24.9371 ng/ml
Alprazolam	5.777	84783	1478.66	109.7	1058.71	89756	23.9389 ng/ml
Amphetamine	3.088	260834	4971.48	53.3	12390.59	93048	27.5453 ng/ml
Benzoylcegonine	3.900	6506	287.71	7.0	80.66	12539	25.2639 ng/ml
Buprenorphine	5.706	1469	70.90	15.9	∞	21730	2.6857 ng/ml
Bupropion	4.807	152992	38484.16	59.5	8438.65	188604	25.0763 ng/ml
Carisoprodol	5.726	41728	1138.90	52.1	642.07	75575	25.1468 ng/ml
Citalopram	5.256	49717	330.26	41.6	1761.73	93062	24.7533 ng/ml
Clonazepam	5.614	10487	628.85	29.7	84.63	8234	24.5954 ng/ml
Cocaine	4.304	236091	54049.16	46.5	∞	768456	24.1739 ng/ml
Codeine	2.617	26808	∞	108.1	∞	47974	25.0355 ng/ml
Cyclobenzaprine	5.644	14301	5839.27	10.7	7236.24	26545	24.6735 ng/ml
Dextromethorphan	5.312	21825	1293.69	83.0	91577.85	40702	24.9723 ng/ml
Dextroproprian	4.147	46179	124297.57	213.4	62954.77	263901	25.4280 ng/ml
Diazepam	5.955	61930	796.50	87.2	444.26	123826	25.6662 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	77434	544.48	64.3	747.16	169685	26.4901 ng/ml
Diphenhydramine	5.333	111140	9073.65	29.6	165.01	364025	24.7124 ng/ml
Doxylamine	4.628	415240	∞	100.7	877.46	660101	24.2736 ng/ml
EDDP	5.298	126514	56475.07	43.9	108.91	302872	24.5996 ng/ml
Fentanyl	5.106	1596	286.93	74.9	2317.61	39960	2.2902 ng/ml
Fluoxetine	5.722	14155	1221.76	9.5	2461.16	23026	25.1233 ng/ml
Hydrocodone	3.065	56283	67.70	35.7	40.52	162937	24.5875 ng/ml
Hydromorphone	1.648	58876	791.09	73.9	514.82	89439	24.9909 ng/ml
Ketamine	4.067	213192	2744.17	37.3	1831.93	363131	25.6893 ng/ml
Lamotrigine	4.302	15771	1315.77	82.3	9861.08	363131	25.9442 ng/ml
Lorazepam	5.748	3744	110.65	51.2	20.95	8234	24.7783 ng/ml
Meprobamate	4.922	10629	21139.43	26.6	327.60	27833	24.5491 ng/ml
Methadone	5.668	38172	2538.30	55.2	1886.81	70918	24.5811 ng/ml
Methamphetamine	3.275	157383	1398.78	44.4	1278.67	323101	26.6000 ng/ml
Metoprolol	4.354	47513	72305.78	95.6	∞	910342	27.3990 ng/ml
Mirtazapine	4.650	120164	16451.53	51.8	∞	424141	25.5706 ng/ml
Mitragynine	5.234	6556	8814.47	36.2	2888.99	70918	21.2277 ng/ml
Morphine	1.280	13270	8752.81	19.6	∞	5818	26.5126 ng/ml
Nordiazepam	5.895	12923	709.05	57.5	201.83	16679	24.7540 ng/ml
Norfentanyl	4.115	31171	3690.73	35.4	251.63	581662	2.4133 ng/ml
Norhydrocodone	3.100	2590	95.36	21.1	5521.10	39020	23.3092 ng/ml
Noroxycodone	2.943	40847	648.45	48.2	178.32	44442	25.3199 ng/ml
O-desmethyl-tramadol	3.401	519570	3099.07	5.9	2190.58	1147383	24.9557 ng/ml
Oxazepam	5.758	4379	167.12	83.7	8.43	11713	23.9478 ng/ml
Oxycodone	2.874	114246	1202.43	29.9	∞	210524	25.3408 ng/ml
Oxymorphone	1.437	28764	421.93	45.8	649.85	37754	26.1318 ng/ml
Phentermine	3.812	58824	∞	2.3	125.96	291848	27.7606 ng/ml
Promethazine	5.562	34860	7009.31	31.0	416.68	66622	24.1864 ng/ml
Quetiapine	5.544	87299	1203.20	55.5	5865.91	43745	26.3958 ng/ml
Sertraline	5.791	9916	152.08	92.3	1582.22	17192	25.4670 ng/ml
Temazepam	5.818	52950	408.23	32.4	204.25	127771	24.9097 ng/ml
Tramadol	4.274	457759	1091.46	3.3	155.00	910342	26.0635 ng/ml
Trazodone	5.092	53461	18559.02	76.2	27180.68	83046	26.3204 ng/ml
Venlafaxine	5.074	269417	1232.62	35.9	849.26	633851	24.8789 ng/ml
Zolpidem	4.864	405959	568.21	33.7	8667.12	817836	25.3534 ng/ml

AS

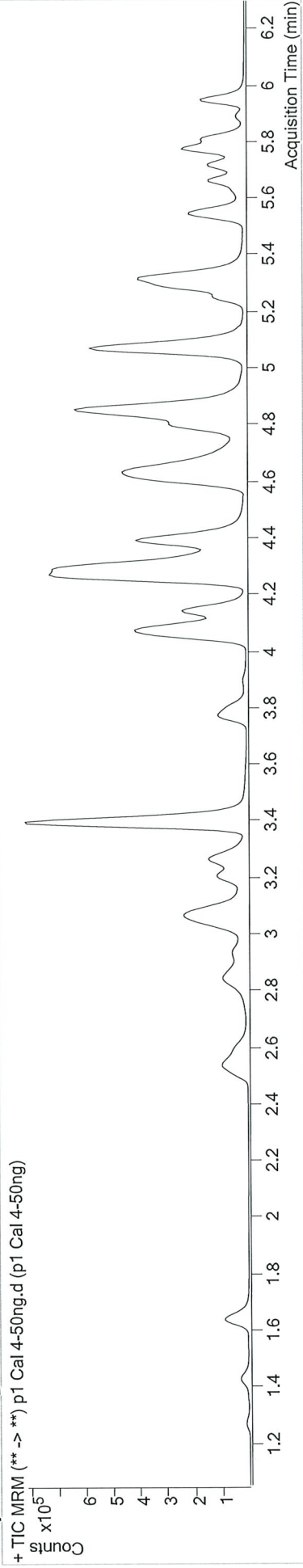


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
 Calibration Last Update 9/24/2019 4:19:56 PM

<b>Instrument Type</b>	Falco Cal	<b>Data File Sample</b>	p1 Cal 4-50ng.d
<b>Acq. Method</b>	MDQ P1 Combined	<b>Operator</b>	p1 Cal 4-50ng
<b>Sample Position</b>	P1-E12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 5:40:50 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	6725	14507.34	72.1	14467.76	26848	4.9479 ng/ml
7-aminoclonazepam	4.271	88602	∞	78.9	8139.43	73840	56.6931 ng/ml
a-hydroxyalprazolam	5.700	4121	250.65	97.0	216.47	6559	47.2651 ng/ml
alpha-PVP	4.404	491809	16205.58	47.7	13177.09	420420	50.6898 ng/ml
Alprazolam	5.777	161861	686.84	112.1	926.64	86797	46.1237 ng/ml
Amphetamine	3.075	525357	5010.91	51.9	6409.51	91111	58.4232 ng/ml
Benzoylcegonine	3.900	11789	1624.27	7.6	162.77	12177	49.0379 ng/ml
Buprenorphine	5.699	3370	965.29	17.9	114.31	27705	4.8786 ng/ml
Bupropion	4.807	341802	902.11	60.1	1572.50	204806	52.6016 ng/ml
Carisoprodol	5.726	80469	14707.08	53.3	326.68	71971	51.2169 ng/ml
Citalopram	5.256	122741	317.12	42.3	4942.04	112442	50.8145 ng/ml
Clonazepam	5.614	21825	1611.52	28.0	13873.79	8236	51.8234 ng/ml
Cocaine	4.304	471633	26544.92	46.3	131570.54	750535	48.9085 ng/ml
Codeine	2.556	51722	336.08	58.1 <b>Low</b>	440.02	45406	51.9558 ng/ml
Cyclobenzaprine	5.644	41178	13603.01	10.8	367.40	38823	48.4750 ng/ml
Dextromethorphan	5.312	53273	4709.75	82.9	21282.15	49369	50.7541 ng/ml
Dextroproprian	4.147	92656	643.66	211.4	8403.95	265738	51.2373 ng/ml
Diazepam	5.955	120629	5553.93	88.2	3829.48	121275	51.4805 ng/ml

AS





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.534	153805	12340.88	63.9	760.24	165685	54.8154 ng/ml
Diphenhydramine	5.333	262499	6698.56	29.9	15690.89	423643	50.3125 ng/ml
Doxylamine	4.621	837141	2302.27	99.1	2046.31	636030	51.2170 ng/ml
EDDP	5.298	254584	∞	43.9	14036.01	298545	50.5050 ng/ml
Fentanyl	5.106	4270	505.31	74.7	8114.85	52112	4.6366 ng/ml
Fluoxetine	5.722	44644	∞	8.4	∞	36464	50.3010 ng/ml
Hydrocodone	3.058	117919	∞	33.4	513.05	155436	54.4912 ng/ml
Hydromorphone	1.648	113074	∞	75.8	1621.19	83917	51.4848 ng/ml
Ketamine	4.067	423403	22446.26	38.0	3038.04	352412	53.4765 ng/ml
Lamotrigine	4.302	31608	4990.66	80.6	13627.06	352412	55.0006 ng/ml
Lorazepam	5.748	7356	162.69	53.3	∞	8236	45.6059 ng/ml
Meprobamate	4.922	20307	718.05	27.3	202.58	26676	49.6378 ng/ml
Methadone	5.668	95765	14247.21	57.5	5432.51	88041	49.6118 ng/ml
Methamphetamine	3.269	313339	2213.34	43.6	1955.06	322655	54.2410 ng/ml
Metoprolol	4.354	91651	210976.49	95.5	∞	884130	56.1297 ng/ml
Mirtazapine	4.650	278334	14437.45	52.6	8657.96	420420	46.1125 ng/ml
Mitragynine	5.234	17771	∞	36.2	6538.40	88041	45.5660 ng/ml
Morphine	1.273	24671	1082.58	19.7	1934.44	5405	53.8590 ng/ml
Norbuprenorphine	5.030	100	438.94	43.6	137.14	553	6.4163 ng/ml
Nordiazepam	5.895	26915	1536.19	55.9	790.86	16826	51.4659 ng/ml
Norfentanyl	4.115	60670	12085.01	35.8	1061.20	562133	4.8422 ng/ml
Norhydrocodone	3.100	5600	134.24	23.1	432.96	39147	46.9875 ng/ml
Noroxycodone	2.936	80932	442.43	47.3	184.26	43422	51.9738 ng/ml
O-desmethyl-tramadol	3.401	1027447	21738.29	5.9	7878.07	1116943	51.0465 ng/ml
Oxazepam	5.758	8585	203.73	77.5	34.69	11649	49.1992 ng/ml
Oxycodone	2.854	220233	2538.09	30.2	5880.62	204967	50.6317 ng/ml
Oxymorphone	1.430	52301	272.92	48.6	∞	35750	50.5640 ng/ml
Phentermine	3.812	110945	2308.73	2.4	117.83	289303	54.4538 ng/ml
Promethazine	5.562	105918	3205.77	30.8	1062.19	98835	49.4005 ng/ml
Quetiapine	5.537	203719	∞	56.5	7567.75	50254	54.4146 ng/ml
Sertraline	5.791	32349	2485.49	94.7	3675.74	29760	47.9678 ng/ml
Temazepam	5.818	104173	918.27	32.2	160.87	125135	50.3989 ng/ml
Tramadol	4.273	887228	11513.91	3.3	1131.55	884130	53.0618 ng/ml
Trazodone	5.085	131135	∞	76.0	23497.59	97851	56.0949 ng/ml
Venlafaxine	5.074	540973	30893.86	35.1	412.67	629344	50.6232 ng/ml
Zolpidem	4.864	828090	639.92	33.2	5157.20	808743	52.8195 ng/ml

TS

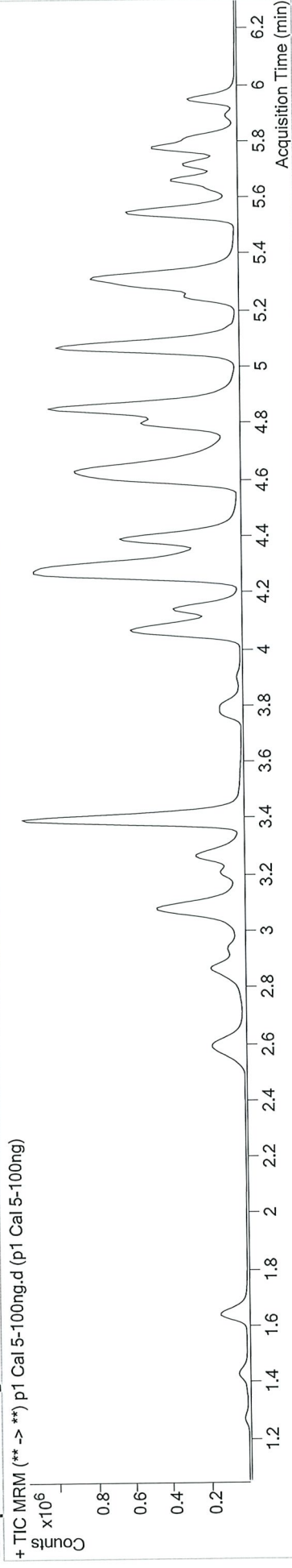


# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
9/24/2019 4:19:56 PM

<b>Instrument Type</b>	Falco Cal	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Acq. Method</b>	MDQ P1 Combined	<b>Sample Operator</b>	p1 Cal 5-100ng
<b>Sample Position</b>	P1-D12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 5:51:21 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	13348	1190.03	69.9	37488.21	26331	10.0556 ng/ml
7-aminoclonazepam	4.271	154854	8361.25	80.1	570.93	71320	104.5869 ng/ml
a-hydroxyalprazolam	5.700	8214	105.32	88.1	399.64	6209	99.0234 ng/ml
alpha-PVP	4.398	935057	57804.42	48.7	35249.98	408225	99.4820 ng/ml
Alprazolam	5.777	310756	1400.95	108.6	∞	82148	92.3640 ng/ml
Amphetamine	3.088	802634	69.98	58.4	12505.55	84027	97.8789 ng/ml
Benzoylcegonine	3.900	22595	5442.43	8.1	∞	11966	97.7330 ng/ml
Buprenorphine	5.699	11224	410.87	15.5	8357.90	41528	10.9105 ng/ml
Bupropion	4.807	706291	66525.58	61.0	14056.34	217871	103.0774 ng/ml
Carisoprodol	5.726	144247	10066.39	55.1	1759.48	68579	96.6039 ng/ml
Citalopram	5.256	352810	20141.40	42.6	∞	165980	99.1640 ng/ml
Clonazepam	5.614	42807	8220.06	28.5	∞	7965	105.7250 ng/ml
Cocaine	4.304	882797	63986.96	47.0	20693.53	711306	96.0951 ng/ml
Codeine	2.617	97058	5841.69	106.3	23270.34	43250	103.2177 ng/ml
Cyclobenzaprine	5.644	186035	88455.55	10.8	∞	87112	97.4988 ng/ml
Dextromethorphan	5.306	168167	112358.36	82.6	15207.11	79442	100.0414 ng/ml
Dextropropion	4.147	183287	17456.30	214.8	24471.52	272007	99.5545 ng/ml
Diazepam	5.955	231248	5623.57	86.9	3736.61	119221	100.8068 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	280747	17699.56	65.7	15583.11	161393	103.5024 ng/ml
Diphenhydramine	5.327	728781	70557.26	29.9	212.61	591917	100.1258 ng/ml
Doxylamine	4.615	1697179	21563.81	98.5	2688.44	652680	101.5686 ng/ml
EDDP	5.298	543697	1219.09	44.6	539.92	330401	97.7159 ng/ml
Fentanyl	5.106	17363	380.16	75.5	64897.07	108519	8.9973 ng/ml
Fluoxetine	5.722	198370	459.33	8.2	104.02	83012	98.4331 ng/ml
Hydrocodone	3.065	221441	∞	34.8	166.95	149312	106.9187 ng/ml
Hydromorphone	1.648	216553	593.88	73.1	∞	83084	99.8849 ng/ml
Ketamine	4.067	794010	37219.95	38.4	14710.70	346477	102.7873 ng/ml
Lamotrigine	4.302	57505	3476.26	82.7	28236.19	346477	102.9127 ng/ml
Lorazepam	5.748	14458	390.98	53.2	60.39	7965	89.4100 ng/ml
Meprobamate	4.922	40162	2892.15	25.0	561.97	26347	100.1000 ng/ml
Methadone	5.668	318142	16668.97	56.7	45431.83	144676	100.2350 ng/ml
Methamphetamine	3.275	560556	1007.48	44.6	579.24	302009	104.7780 ng/ml
Metoprolol	4.346	168226	∞	97.0	∞	865242	106.7945 ng/ml
Mirtazapine	4.643	706751	82788.62	51.7	∞	408225	104.1074 ng/ml
Mitragynine	5.234	65383	298998.16	36.0	∞	144676	101.1993 ng/ml
Morphine	1.273	45865	1104.26	21.0	∞	5453	99.9251 ng/ml
Norbuprenorphine	5.017	231	23.91	77.6	36.24	928	9.8551 ng/ml
Nordiazepam	5.895	51615	3016.01	57.0	1990.89	17234	96.6599 ng/ml
Norfentanyl	4.108	113616	19322.72	35.9	1283.96	536609	9.4820 ng/ml
Norhydrocodone	3.106	11221	304.11	21.7	∞	36297	98.2918 ng/ml
Noroxycodone	2.943	147474	1381.78	48.6	1007.31	39726	104.1232 ng/ml
O-desmethyl-tramadol	3.401	1950973	1717.42	6.0	4995.25	1090896	99.5664 ng/ml
Oxazepam	5.758	16356	286.69	78.5	188.44	11327	98.3598 ng/ml
Oxycodone	2.868	431844	70820.35	30.7	5417.97	203558	100.4228 ng/ml
Oxymorphone	1.430	99395	∞	46.5	420.65	34058	101.2837 ng/ml
Phentermine	3.812	205047	2306.34	2.4	379.59	283012	104.4893 ng/ml
Promethazine	5.562	456201	1133.33	31.5	2933.15	211029	99.5206 ng/ml
Quetiapine	5.537	527904	1754.21	56.7	467253.98	69022	103.3479 ng/ml
Sertraline	5.791	132112	1645.44	94.3	∞	60028	97.0854 ng/ml
Temazepam	5.818	199509	1266.44	33.7	423.89	124768	97.1348 ng/ml
Tramadol	4.274	1655999	5200.65	3.3	485.54	865242	102.1560 ng/ml
Trazodone	5.085	402880	4757.66	75.8	71519.22	159998	106.4561 ng/ml
Venlafaxine	5.067	1060550	23387.03	35.8	134733.15	621619	100.7763 ng/ml
Zolpidem	4.864	1591080	1472.54	32.6	702.40	802860	102.6891 ng/ml

TS

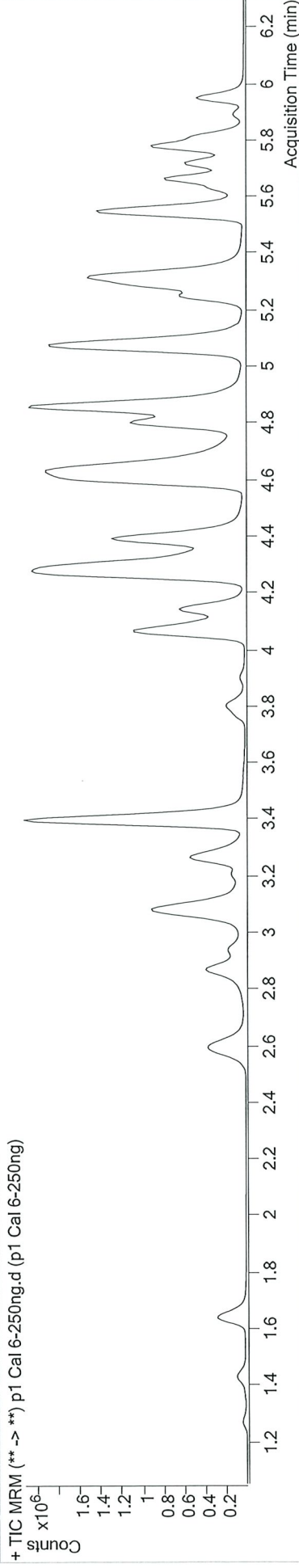


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 Calibration Last Update 9/24/2019 4:19:56 PM

<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>	
<b>Sample Position</b>	P1-C12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 6:01:51 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	632813	26406.28	65.3	11686.97	151623	249.5863 ng/ml
Diphenhydramine	5.327	1808642	83769.96	30.0	33900.08	593576	248.0186 ng/ml
Doxylamine	4.608	4057645	14931.90	97.5	40662.99	623337	254.8523 ng/ml
EDDP	5.298	1208512	1015.25	44.1	649.77	287317	250.1967 ng/ml
Fentanyl	5.106	50416	2619.30	73.1	79547.77	113842	24.7987 ng/ml
Fluoxetine	5.722	531244	26191.66	8.1	∞	87379	250.8462 ng/ml
Hydrocodone	3.058	494403	182.96	37.0	∞	142541	250.6032 ng/ml
Hydromorphone	1.648	480772	∞	75.1	729.69	72405	254.9512 ng/ml
Ketamine	4.067	1840709	60898.32	37.8	1462.92	328081	252.8996 ng/ml
Lamotrigine	4.302	112012	6542.37	84.5	16805.34	328081	213.1124 ng/ml
Lorazepam	5.748	39824	1114.66	49.4	∞	7973	240.4416 ng/ml
Meprobamate	4.922	92095	575.48	25.4	662.35	24273	250.1944 ng/ml
Methadone	5.668	851240	138066.35	56.2	1453.64	156531	247.7932 ng/ml
Methamphetamine	3.269	1265789	527.95	44.5	13371.69	281851	255.2467 ng/ml
Metoprolol	4.354	350033	∞	97.1	23397.43	765945	253.3611 ng/ml
Mirtazapine	4.643	1808262	79486.95	51.5	3254.59	377970	269.6923 ng/ml
Mitragyline	5.234	179891	24053.52	37.2	88562.74	156531	256.3274 ng/ml
Morphine	1.273	95469	1122.69	19.7	216.84	4567	249.5132 ng/ml
Norbuprenorphine	5.024	610	1274.19	80.5	32.49	1061	26.1920 ng/ml
Nordiazepam	5.895	119803	9602.54	55.8	603.80	15119	256.3019 ng/ml
Norfentanyl	4.115	264292	178971.71	35.6	5739.77	477654	24.7506 ng/ml
Norhydrocodone	3.106	25569	923.81	23.3	143.61	32143	248.4939 ng/ml
Noroxycodone	2.943	324416	2511.77	46.4	6559.49	36380	250.9805 ng/ml
O-desmethyl-tramadol	3.401	4519075	188421.73	6.0	∞	1001564	251.7171 ng/ml
Oxazepam	5.758	44497	190.75	73.4	92.88	11711	262.1605 ng/ml
Oxycodone	2.868	1054696	5798.43	30.3	10735.54	197881	253.0057 ng/ml
Oxymorphone	1.430	218372	∞	47.1	860.07	30046	252.8580 ng/ml
Phentermine	3.812	457907	1874.28	2.1	303.80	260722	255.8735 ng/ml
Promethazine	5.562	1274151	21495.54	31.8	6388.30	236224	248.1175 ng/ml
Quetiapine	5.537	1318351	9756.56	58.6	666361.46	72468	246.8856 ng/ml
Sertraline	5.791	320099	3355.11	94.4	2385.78	58561	241.0734 ng/ml
Temazepam	5.818	475451	986.16	31.7	1612.34	114262	253.3366 ng/ml
Tramadol	4.273	3659343	1978.21	3.4	3144.09	765945	256.5788 ng/ml
Trazodone	5.085	1046313	85132.42	76.4	3144.72	173289	256.9517 ng/ml
Venlafaxine	5.074	2441549	930.20	35.2	∞	578923	249.5593 ng/ml
Zolpidem	4.864	3794526	104604.57	31.7	3600.82	769469	256.2584 ng/ml

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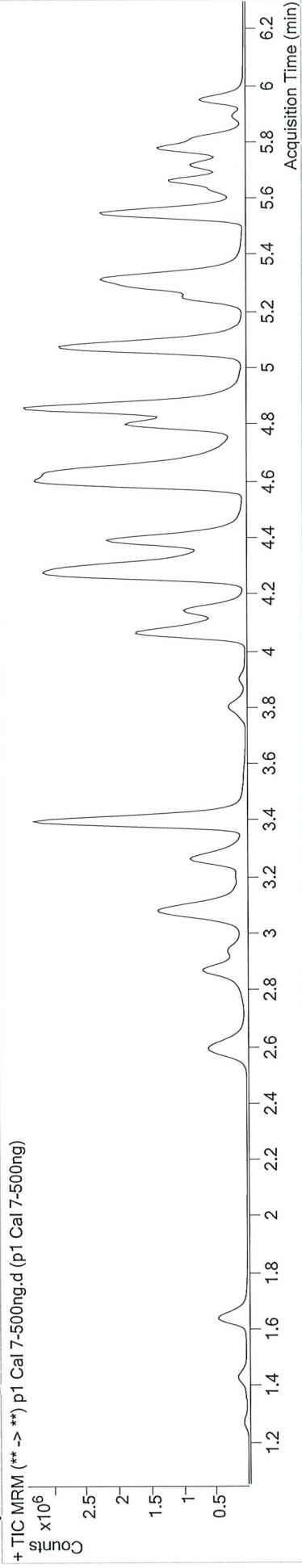


# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3703.batch.bin  
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<b>Instrument Type</b>	Falco Cal	<b>Data File Sample</b>	p1 Cal 7-500ng.d
<b>Acq. Method</b>	MDQ P1 Combined	<b>Operator</b>	p1 Cal 7-500ng
<b>Sample Position</b>	092319.m	<b>Comment</b>	
<b>Injection Volume</b>	P1-B12		
<b>Acq. Date-Time</b>	2		
<b>Sample Info.</b>	9/23/2019 6:12:21 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	54409	2202.34	72.2	118858.98	21151	51.1963 ng/ml
7-aminoclonazepam	4.271	408739	513.00	79.7	54769.55	50875	393.6621 ng/ml
a-hydroxyalprazolam	5.700	36971	1709.79	89.4	414.04	5557	496.2128 ng/ml
alpha-PVP	4.398	3833621	120581.80	49.2	54336.42	334421	498.8315 ng/ml
Alprazolam	5.777	1116011	1882.98	106.3	4987.25	54927	490.9991 ng/ml
Amphetamine	3.088	2843843	27524.97	51.8	60507.00	66957	440.9628 ng/ml
Benzoyllecgonine	3.900	118943	1239.26	7.2	1204.06	12280	510.4001 ng/ml
Buprenorphine	5.699	37884	6626.87	15.3	1140.94	31850	48.2136 ng/ml
Bupropion	4.807	2878778	168372.78	60.9	55892.14	182219	506.0344 ng/ml
Carisoprodol	5.733	509981	212376.80	53.8	5811.73	46334	506.7296 ng/ml
Citalopram	5.256	1472298	20682.71	42.4	8074.40	136175	505.3185 ng/ml
Clonazepam	5.614	195439	22696.16	29.9	∞	7696	501.7868 ng/ml
Cocaine	4.304	3324073	328563.18	47.4	360516.67	521911	491.0211 ng/ml
Codeine	2.617	351994	186.36	101.7	1227.51	32761	497.5336 ng/ml
Cyclobenzaprine	5.637	847313	∞	10.0	984.22	75009	515.2758 ng/ml
Dextromethorphan	5.306	679739	51719.99	81.8	58530.33	64439	500.4827 ng/ml
Dextropropion	4.147	691436	30553.29	212.5	38236.14	206681	496.5426 ng/ml
Diazepam	5.955	817781	7722.31	87.2	5359.28	87274	488.6764 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	1084219	25835.27	66.5	52741.48	144324	449.9690 ng/ml
Diphenhydramine	5.327	2898277	144425.14	30.6	92172.03	477897	493.7962 ng/ml
Doxylamine	4.601	7356535	58241.29	97.0	76496.79	585130	492.5844 ng/ml
EDDP	5.298	2167444	317507.96	44.0	68560.76	256316	503.2716 ng/ml
Fentanyl	5.106	79384	829.68	73.9	260.01	84750	52.3843 ng/ml
Fluoxetine	5.722	796599	∞	8.3	145375.33	66174	496.9347 ng/ml
Hydrocodone	3.058	889746	168.89	37.6	261.83	132989	483.7696 ng/ml
Hydromorphone	1.648	847261	∞	72.8	∞	65845	494.3533 ng/ml
Ketamine	4.067	3243058	272811.39	37.9	5418.17	303998	481.6494 ng/ml
Lamotrigine	4.308	159933	16092.71	84.6	12432.85	303998	329.1129 ng/ml
Lorazepam	5.748	81199	1514.12	52.2	428.01	7696	504.3701 ng/ml
Meprobamate	4.922	171857	46307.74	25.2	4366.27	22195	511.3255 ng/ml
Methadone	5.668	1404257	92797.47	55.2	1520.46	126563	505.5034 ng/ml
Methamphetamine	3.269	2102119	1045.95	44.4	10449.88	251913	475.3138 ng/ml
Metoprolol	4.354	552853	353774.24	98.1	∞	675601	455.0511 ng/ml
Mirtazapine	4.643	2961756	987480.57	51.1	4351.67	334421	490.5673 ng/ml
Mitraginine	5.234	295408	37463.20	36.5	224781.06	126563	519.9172 ng/ml
Morphine	1.273	163768	12193.86	20.9	∞	4062	481.9768 ng/ml
Norbuprenorphine	5.024	942	36.33	75.9	116.05	909	49.3687 ng/ml
Nordiazepam	5.895	213353	1157.93	56.0	980.84	14008	492.9609 ng/ml
Norfentanyl	4.115	489839	68649.37	36.0	∞	427807	51.1988 ng/ml
Norhydrocodone	3.106	43685	∞	23.1	189.11	26254	516.7003 ng/ml
Noroxycodone	2.943	567569	2161.61	48.5	9587.32	32150	497.4540 ng/ml
O-desmethyl-tramadol	3.401	7967113	165855.33	6.0	∞	895109	496.8863 ng/ml
Oxazepam	5.758	94122	2131.45	75.2	622.81	12931	504.0580 ng/ml
Oxycodone	2.874	1985007	3967.03	30.6	3582.52	188417	500.5456 ng/ml
Oxymorphone	1.430	402731	∞	45.8	∞	28849	486.0683 ng/ml
Phentermine	3.812	741724	4722.00	2.1	1373.61	234003	463.2494 ng/ml
Promethazine	5.562	2134659	1624.36	31.9	41106.75	197313	497.5302 ng/ml
Quetiapine	5.537	2118346	125721.83	58.9	76472.95	60947	472.3969 ng/ml
Setraline	5.791	451458	1519.69	92.9	1207.02	39947	498.3895 ng/ml
Temazepam	5.818	859297	∞	31.7	3269.60	104600	500.5009 ng/ml
Tramadol	4.273	6056782	117322.57	3.5	3878.14	675601	482.3900 ng/ml
Trazodone	5.085	1563497	∞	77.8	89358.24	145058	459.6313 ng/ml
Venlafaxine	5.074	4296129	197073.12	35.0	∞	512007	496.8130 ng/ml
Zolpidem	4.864	6742670	440444.65	31.2	19017.12	721043	486.3794 ng/ml

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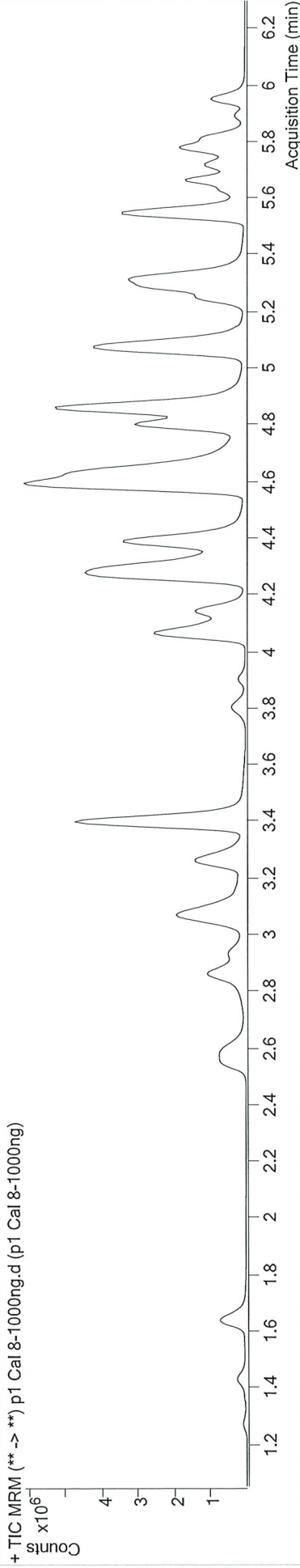


# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P1 wk1st 3703.batch.bin  
 9/24/2019 4:19:56 PM

<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>	
<b>Sample Position</b>	P1-A12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/23/2019 6:22:53 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	98870	30565.28	70.3	18566.26	18868	104.3322 ng/ml
7-aminoclonazepam	4.271	476277	∞	80.3	39702.36	40488	577.5357 ng/ml
a-hydroxyalprazolam	5.700	73708	1755.03	92.6	506.09	5309	1035.0549 ng/ml
alpha-PVP	4.398	6428520	54014.73	49.2	87730.75	279044	1002.7232 ng/ml
Alprazolam	5.777	1699514	2442.18	105.3	1074.90	39921	1027.4818 ng/ml
Amphetamine	3.081	4230513	26772.94	51.7	71141.88	59850	734.9843 ng/ml
Benzylecgonine	3.900	249381	1809.96	7.5	9300.18	12706	1036.5261 ng/ml
Buprenorphine	5.699	46065	∞	14.7	∞	22678	82.3800 ng/ml
Bupropion	4.807	4872049	288605.39	60.6	80415.64	159487	979.3757 ng/ml
Carisoprodol	5.733	775115	46505.63	53.4	∞	36113	988.4396 ng/ml
Citalopram	5.256	2136688	∞	41.8	3361.18	100409	994.7857 ng/ml
Clonazepam	5.614	345372	28106.20	29.2	3007.36	7445	917.0878 ng/ml
Cocaine	4.297	5259954	112452.53	45.2	163854.52	398885	1016.0745 ng/ml
Codeine	2.603	608262	∞	102.2	18932.15	28162	1001.0546 ng/ml
Cyclobenzaprine	5.637	1161893	10264.81	9.9	13122.96	50433	1050.7954 ng/ml
Dextromethorphan	5.306	924320	32116.44	82.0	43677.21	43973	997.8153 ng/ml
Dextroproprian	4.147	1075092	∞	211.8	12572.27	159344	1002.0006 ng/ml
Diazepam	5.955	1221862	18982.41	87.4	4607.77	65448	974.0681 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	1928574	34749.32	66.5	14008.03	127023	910.3289 ng/ml
Diphenhydramine	5.327	4311225	156995.57	30.6	14037.61	348337	1007.8897 ng/ml
Doxylamine	4.594	13672376	82018.86	99.4	105353.00	535597	1000.5559 ng/ml
EDDP	5.291	3963162	156227.04	44.4	129302.46	232801	1013.4617 ng/ml
Fentanyl	5.106	108934	3881.98	75.3	228983.61	52194	116.6499 ng/ml
Fluoxetine	5.716	980264	26565.05	8.4	200988.98	40346	1003.2616 ng/ml
Hydrocodone	3.052	1540574	116.03	38.6	163.40	121935	913.9324 ng/ml
Hydromorphone	1.641	1414844	∞	72.3	628.32	55948	971.8630 ng/ml
Ketamine	4.067	5235800	7030.29	37.9	4876.18	260999	906.4753 ng/ml
Lamotrigine	4.308	196937	2483.14	83.8	26730.50	260999	472.6051 ng/ml
Lorazepam	5.748	159098	4032.71	51.0	1069.27	7445	1018.2552 ng/ml
Meprobamate	4.922	297460	30630.49	25.3	6261.73	19637	1001.0161 ng/ml
Methadone	5.668	2081906	72010.60	55.7	223623.44	95113	997.1964 ng/ml
Methamphetamine	3.269	3632454	28422.99	44.3	40149.84	246007	841.9937 ng/ml
Metoprolol	4.354	804317	39241.04	97.7	∞	559308	800.9947 ng/ml
Mirtazapine	4.643	4855259	72626.95	50.8	75393.78	279044	953.9477 ng/ml
Mitragynine	5.234	418667	4113.61	37.3	∞	95113	979.9181 ng/ml
Morphine	1.273	255591	6944.17	18.8	121.23	3385	903.4822 ng/ml
Norbuprenorphine	5.024	1515	74.37	81.3	1457.91	755	97.9437 ng/ml
Nordiazepam	5.895	355396	5990.94	56.5	773.60	11467	1003.4861 ng/ml
Norfentanyl	4.115	886899	109777.74	36.6	9560.30	360729	109.9174 ng/ml
Norhydrocodone	3.100	76055	251.52	24.6	1856.74	21847	1077.9850 ng/ml
Noroxycodone	2.936	923855	5108.55	48.2	254.72	28612	910.3734 ng/ml
O-desmethyl-tramadol	3.401	12724226	302386.15	6.1	342502.98	720397	986.3688 ng/ml
Oxazepam	5.758	184174	7933.50	76.8	2240.17	12804	998.1595 ng/ml
Oxycodone	2.861	3500568	18141.78	30.9	11435.23	173517	958.9438 ng/ml
Oxymorphone	1.430	691042	∞	46.7	∞	24816	970.0021 ng/ml
Penthermine	3.812	1162688	∞	2.0	1247.14	211084	806.3497 ng/ml
Promethazine	5.562	3126856	2110.21	31.9	49286.93	142933	1005.9208 ng/ml
Quetiapine	5.537	3571680	2525.53	59.3	1562.95	54185	896.5774 ng/ml
Sertraline	5.791	499307	14830.58	92.2	13250.88	21707	1014.3480 ng/ml
Temazepam	5.818	1450789	39310.86	31.7	1553.66	87654	1008.7494 ng/ml
Tramadol	4.273	9211290	97759.95	3.4	∞	559308	887.0490 ng/ml
Trazodone	5.092	2355151	114886.03	77.5	580090.92	121901	824.8403 ng/ml
Venlafaxine	5.074	7090109	6200.74	35.2	2064.47	418900	1002.4615 ng/ml
Zolpidem	4.864	11141226	493348.28	31.4	167526.08	634936	913.0869 ng/ml

TS