























Worklist: 3411

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-0775	1	152651	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0815	1	152650	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0816	1	152649	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0819	1	152648	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0825	1	152647	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0827	1	152646	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0837	1	152645	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0840	1	152644	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0849	1	152643	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0866	1	152642	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0872	1	152641	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0874	1	152640	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0880	1	152639	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0884	1	152638	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0885	1	152637	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0886	1	152636	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0901	1	152635	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0902	1	152634	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0919	1.1	152655	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0919	1.2	152654	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0919	1.3	152653	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-0928	2	152652	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 5/22/19 Analyst: Britany Wylie  
Plate lot#: 190124 (part IDP-111) Plate Expiration: 7/24/19

**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:** 19A207P3

**Column:** Agilent 120 EC-C18 (2.1x 100-4um)

**LCMS-QQQ ID:** 69679

## 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: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 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: 66792**
- 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: 66819*
- 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\am 28\052219* Batch Name: *mdq*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

## COMMENTS:

*Curves limited: 0.5-25: 6-MAM, Buprenorphine, fentanyl, norfentanyl*

*5-100: 7-aminoclonazepam, Mirtazepine*

*5-250: alpha-hydroxyalprazolam Lamotrigine, meprobamate, Norhydrocodone, phentermine, trazodone*

*5-500: Amphetamine, Benzoyllecgonine, dihydrocodeine, Lorazepam, Quetiapine, zolpidem,*

*10-1000: Sertraline; 25-1000: Metoprolol*

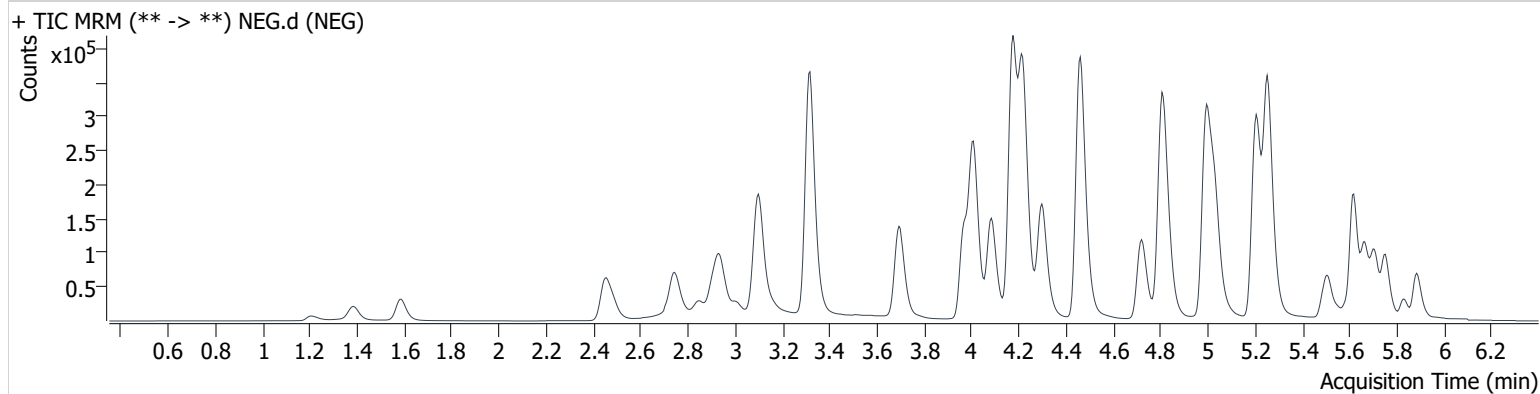
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	NEG.d
<b>Type</b>	Sample	<b>Sample</b>	NEG
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-E2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 4:18:46 PM		

**Sample Info.**

## Sample Chromatogram



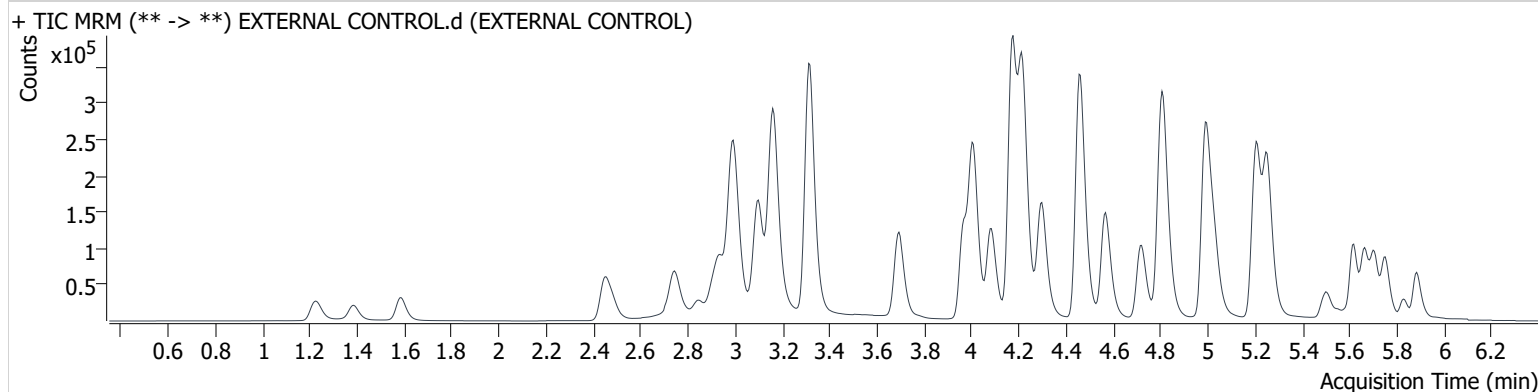
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.149	10140	41.15	77.3	24.88	96135	4.3703 ng/ml <5

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	EXTERNAL CONTROL.d
<b>Type</b>	Sample	<b>Sample</b>	EXTERNAL CONTROL
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-F2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 4:29:33 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.144	5182	∞	69.5	∞	94579	2.2998 ng/ml <5
Amphetamine	2.995	514096	4198.89	51.1	2162.05	154193	51.8996 ng/ml
Buprenorphine	5.734	1842	841.87	13.8	273.28	22158	3.3574 ng/ml
Dextromethorphan	5.218	74996	8942.05	77.7	∞	81351	41.6733 ng/ml
Methamphetamine	3.162	471372	1587.07	39.9	2529.52	428424	44.2084 ng/ml
Mirtazapine	4.569	287184	20933.09	47.8	11638.57	232481	57.4241 ng/ml
Morphine	1.231	24859	4194.15	22.3	17384.30	8614	38.3096 ng/ml

Toxicology AM method 28 panel 1 external prep information

working solution 10000 ng/ml in meoh amphetamine, dextromethorphan, methamphetamine, morphine, paroxetine, amitriptyline meperidine, doxepine, mirtazapine, 1000 ng/ml buprenorphine

Stock solution 1mg/ml (.1mg/ml buprenorphine ) 100 ul each in 9000 ul meOH

Ppd 3/14/19 Exp: 3/14/20 lot 31420 by AMN

Drug	lot	expiration
amphetamine	FE06011503	6/1/2020
dextromethorphan	FN07231501	7/1/2020
methamphetamine	FE08101708	10/1/2022
morphine	FE08141515	11/1/2020
buprenorphine	FE09211501	9/1/2020
paroxetine	FN05111505	6/1/2020
mirtazapine	FN04201503	4/1/2020
meperidine	FE01191502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
doxepin	FN01281502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
amitriptyline	FN07081401	9/1/2019 (this compound will not be evaluated in this control after 9/1/2019)

AM 28 control 50 ul working solution lot (31420) in 9950 ul blood lot (19A207P3)

ppd 3/14/19 Exp 3/14/2020 by AMN Concentration 50 ng/ml each (5 ng/ml buprenorphine)

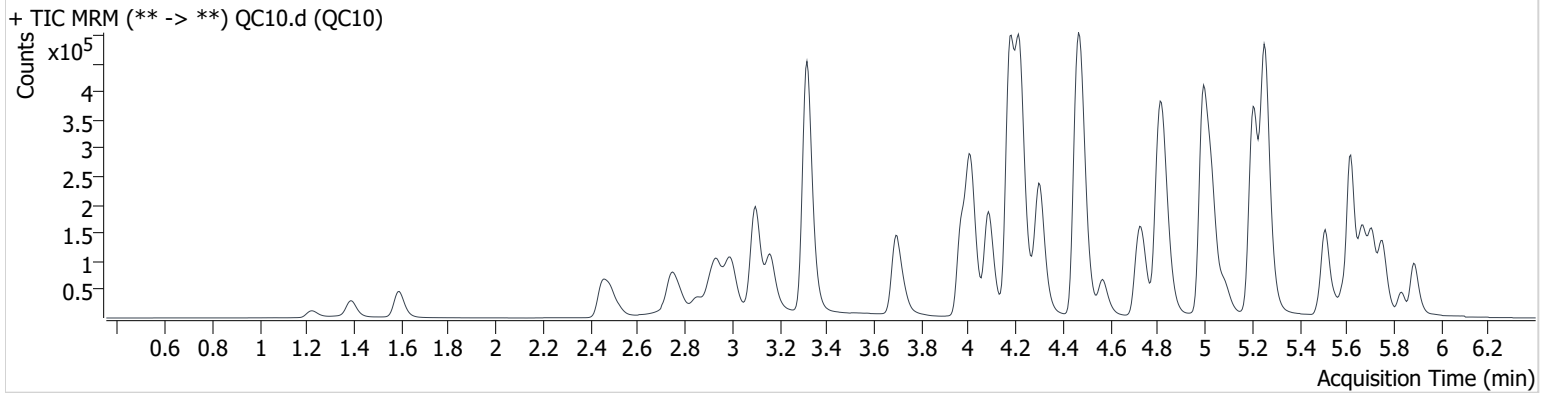
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	QC10.d
<b>Type</b>	QC	<b>Sample</b>	QC10
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-A2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 3:35:36 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.102	1592	∞	80.3	∞	54001	0.8942 ng/ml
7-aminoclonazepam	4.200	27070	382.52	79.1	118.69	94956	11.7060 ng/ml
a-hydroxyalprazolam	5.637	3016	704.95	60.1	3769.25	15190	9.9350 ng/ml
alpha-PVP	4.311	106900	2453.01	53.6	1665.60	477406	10.5579 ng/ml
Alprazolam	5.716	49757	1016.39	110.1	1507.99	149773	11.2470 ng/ml
Amphetamine	2.995	149487	∞	53.9	914.52	193811	10.6859 ng/ml
Benzoylcegonine	3.814	2156	∞	8.2	9.32 <span style="color: red;">Low &gt;5</span>	7336	10.0014 ng/ml
Buprenorphine	5.734	999	∞	17.0	229.06	40378	1.0080 ng/ml
Bupropion	4.743	111398	5406.01	59.4	1735.95	369937	10.4344 ng/ml
Carisoprodol	5.672	41435	2956.99	58.5	388.03	200220	10.3240 ng/ml
Citalopram	5.199	59648	1804.82	46.6	957.00	246635	10.7956 ng/ml
Clonazepam	5.561	10738	∞	32.5	402.87	15797	10.7237 ng/ml
Cocaine	4.220	106968	798.31	42.2	6677.91	919313	10.6608 ng/ml
Codeine	2.522	12635	2631.60	103.6	828.28	58106	9.6187 ng/ml
Cyclobenzaprine	5.594	27966	∞	10.7	313.95	97058	11.5662 ng/ml
Dextromethorphan	5.223	37426	393.47	74.4	860.12	179833	9.8132 ng/ml
Dextrorphan	4.090	37471	3064.90	211.4	2828.97	411735	11.0447 ng/ml
Diazepam	5.891	38865	1963.00	86.3	1632.80	162760	11.2361 ng/ml
Dihydrocodeine	2.485	36021	2300.80	65.0	1274.17	191716	10.4079 ng/ml
Diphenhydramine	5.259	204214	1728.67	34.2	1236.85	932540	11.2724 ng/ml
Doxylamine	4.481	285558	5926.26	98.0	4281.62	1184687	10.0266 ng/ml
EDDP	5.212	37117	4029.51	235.7	∞	433578	9.7856 ng/ml
Fentanyl	5.041	4634	562.08	73.8	2842.31	216145	1.0354 ng/ml
Fluoxetine	5.679	20463	3297.98	9.4	203.90	74189	10.6068 ng/ml
Hydrocodone	2.967	33572	954.66	40.2	857.33	180568	10.7489 ng/ml
Hydromorphone	1.598	25807	3665.94	73.5	354.73	94087	9.8918 ng/ml
Ketamine	3.984	88154	6505.92	38.1	681.93	405790	9.7970 ng/ml
Lamotrigine	4.268	9558	108.41	87.1	∞	179833	9.7562 ng/ml
Lorazepam	5.694	4849	477.54	61.3	27.50	149773	11.5865 ng/ml
Meprobamate	4.861	15850	2166.07	28.9	123.95	65397	10.1723 ng/ml
Methadone	5.618	115428	5445.68	44.3	∞	493689	11.5684 ng/ml
Methamphetamine	3.162	155391	383.73	39.1	108.39	532342	9.5271 ng/ml
Mirtazapine	4.569	116383	4379.48	47.3	2474.09	493689	9.6256 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.178	11859	∞	38.7	4774.07	493689	8.6886 ng/ml
Morphine	1.231	6235	1025.19	23.1	464.36	9386	8.8949 ng/ml
Norbuprenorphine	4.958	188	308.06	101.2	319.79	5413	0.9643 ng/ml
Nordiazepam	5.841	21401	3346.57	61.5	1728.08	65830	10.0871 ng/ml
Norfentanyl	4.030	15924	714.18	39.3	77.17	675969	0.9979 ng/ml
Norhydrocodone	3.029	1907	125.15	41.4	35.27	46223	9.1608 ng/ml
Noroxycodone	2.870	21506	177.92	40.8	185.83	80095	9.2490 ng/ml
O-desmethyl-tramadol	3.323	233733	5520.68	6.4	1637.08	1066351	10.5665 ng/ml
Oxazepam	5.701	7187	149.82	74.6	97.13	28248	10.5597 ng/ml
Oxycodone	2.778	60525	1384.31	28.5	1728.08	256025	10.2969 ng/ml
Oxymorphone	1.390	21416	∞	43.0	1769.98	78282	9.9543 ng/ml
Phentermine	3.731	45682	∞	4.8	172.17	426580	9.2820 ng/ml
Promethazine	5.511	42005	872.08	33.1	569.90	169563	10.6942 ng/ml
Quetiapine	5.509	73765	2558.20	59.7	∞	95688	10.6745 ng/ml
<del>Sertraline</del>	<del>5.741</del>	<del>9786</del>	<del>1154.79</del>	<del>97.1</del>	<del>∞</del>	<del>42675</del>	<del>12.0512 ng/ml</del> <sup>**</sup>
Temazepam	5.762	39603	1126.28	33.2	114.25	182690	9.7026 ng/ml
Tramadol	4.191	237404	7884.03	3.6	254.18	1127650	10.3642 ng/ml
Trazodone	5.086	70912	1307.70	79.5	1710.99	262551	11.0947 ng/ml
Venlafaxine	4.996	187949	6290.97	39.7	2670.21	905582	10.7470 ng/ml
Zolpidem	4.832	226390	5386.53	30.5	1415.07	976598	10.4038 ng/ml

\*\* (indicates outside curve range)

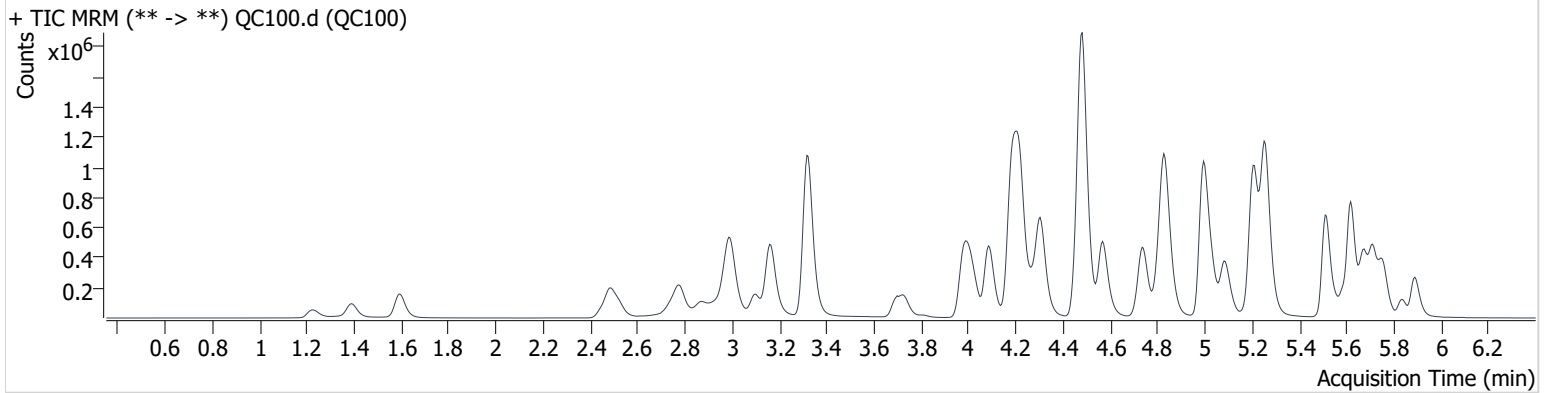
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	QC100.d
<b>Type</b>	QC	<b>Sample</b>	QC100
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-B2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 3:46:23 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	15240	∞	76.9	∞	52863	9.1083 ng/ml
7-aminoclonazepam	4.200	188329	7173.40	85.7	3353.84	83307	92.3992 ng/ml
a-hydroxyalprazolam	5.637	25756	915.30	58.6	901.91	13218	95.7032 ng/ml
alpha-PVP	4.311	871742	86185.04	52.7	12776.15	397873	83.8338 ng/ml
Alprazolam	5.716	383154	4955.45	111.7	3841.34	125788	85.0097 ng/ml
Amphetamine	2.995	963491	11378.15	51.1	8169.64	148854	102.3736 ng/ml
Benzoylcegonine	3.809	19651	∞	7.5	324.10	6796	90.9115 ng/ml
Buprenorphine	5.734	7094	688.17	15.9	1413.92	30721	9.3068 ng/ml
Bupropion	4.743	774451	∞	59.1	34764.80	268749	96.8612 ng/ml
Carisoprodol	5.672	323677	13184.77	58.6	1921.42	168774	94.0733 ng/ml
Citalopram	5.199	431446	593.29	47.5	∞	188666	90.2945 ng/ml
Clonazepam	5.561	92535	∞	33.1	4080.54	14164	99.3799 ng/ml
Cocaine	4.220	888984	∞	42.2	67443.71	802940	85.4502 ng/ml
Codeine	2.522	105724	2358.60	105.7	2727.02	50314	87.5033 ng/ml
Cyclobenzaprine	5.594	278257	72408.04	10.6	18500.72	107341	85.4972 ng/ml
Dextromethorphan	5.223	284870	60998.45	75.4	∞	148262	86.2887 ng/ml
Dextrorphan	4.085	322269	22903.60	213.9	1235.63	367552	90.8135 ng/ml
Diazepam	5.891	297882	7618.56	85.5	4650.10	135212	93.4743 ng/ml
Dihydrocodeine	2.485	315962	3959.48	64.4	26083.22	183331	98.4824 ng/ml
Diphenhydramine	5.259	1583169	29427.61	34.2	∞	772183	85.3392 ng/ml
Doxylamine	4.481	2564585	166790.45	96.3	62852.65	1100040	95.2239 ng/ml
EDDP	5.207	353121	107998.17	235.3	129016.74	435381	87.1574 ng/ml
Fentanyl	5.040	39483	407.36	72.3	410.03	192668	9.5473 ng/ml
Fluoxetine	5.679	236838	23972.13	8.6	12776.22	94357	87.2353 ng/ml
Hydrocodone	2.967	302220	1696.64	40.1	996.59	175218	95.7022 ng/ml
Hydromorphone	1.598	228036	1904.22	74.0	∞	88841	89.1838 ng/ml
Ketamine	3.984	741894	14940.97	38.5	15342.71	359655	92.6218 ng/ml
Lamotrigine	4.263	77286	2789.14	86.5	471.65	148262	118.8531 ng/ml
Lorazepam	5.694	31488	∞	58.9	134.32	125788	90.8118 ng/ml
Meprobamate	4.861	132399	116499.08	30.6	3510.90	56464	94.4025 ng/ml
Methadone	5.618	913174	∞	46.4	∞	424709	90.8451 ng/ml
Methamphetamine	3.162	816497	∞	38.1	1469.75	353370	96.1375 ng/ml
Metoprolol	4.277	194169	10951.04	96.8	84357.18	772183	127.0810 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	946730	97758.87	47.1	54162.22	424709	104.9482 ng/ml
Mitragynine	5.178	101808	155388.73	39.2	61513.54	424709	86.3124 ng/ml
Morphine	1.226	55716	46728.59	22.7	2314.68	8470	87.2042 ng/ml
Norbuprenorphine	4.953	1056	1799.50	105.9	2160.20	4472	9.0160 ng/ml
Nordiazepam	5.841	151753	20348.30	61.7	84693.73	51777	90.5069 ng/ml
Norfentanyl	4.035	151615	14324.36	40.1	1553.80	630441	9.7068 ng/ml
Norhydrocodone	3.029	27173	671.69	41.0	307.79	48932	83.2743 ng/ml
Noroxycodone	2.870	189549	1460.50	39.8	∞	68948	95.8877 ng/ml
O-desmethyl-tramadol	3.323	2136734	134211.62	6.5	13534.76	983124	85.7017 ng/ml
Oxazepam	5.701	42491	1225.47	73.5	261.23	16903	88.0912 ng/ml
Oxycodone	2.778	545264	4262.66	29.3	1302.99	242173	91.2137 ng/ml
Oxymorphone	1.390	191440	∞	43.4	∞	72845	92.8330 ng/ml
Phentermine	3.731	335137	1559.36	4.6	∞	345188	107.0354 ng/ml
Promethazine	5.511	459780	5536.39	31.8	3810.01	190895	87.5872 ng/ml
Quetiapine	5.514	614492	106722.60	58.4	71812.46	83777	101.7956 ng/ml
Sertraline	5.741	124322	14491.84	99.8	∞	55044	89.9136 ng/ml
Temazepam	5.762	311589	4023.11	32.1	1183.08	151711	86.0772 ng/ml
Tramadol	4.191	2017157	106020.23	3.5	2040.15	1032661	98.6283 ng/ml
Trazodone	5.086	592550	11185.46	79.6	17837.46	248825	96.7765 ng/ml
Venlafaxine	4.996	1618096	81867.69	38.9	25346.46	809854	83.5633 ng/ml
Zolpidem	4.832	2018182	74831.10	31.0	∞	938257	94.8498 ng/ml

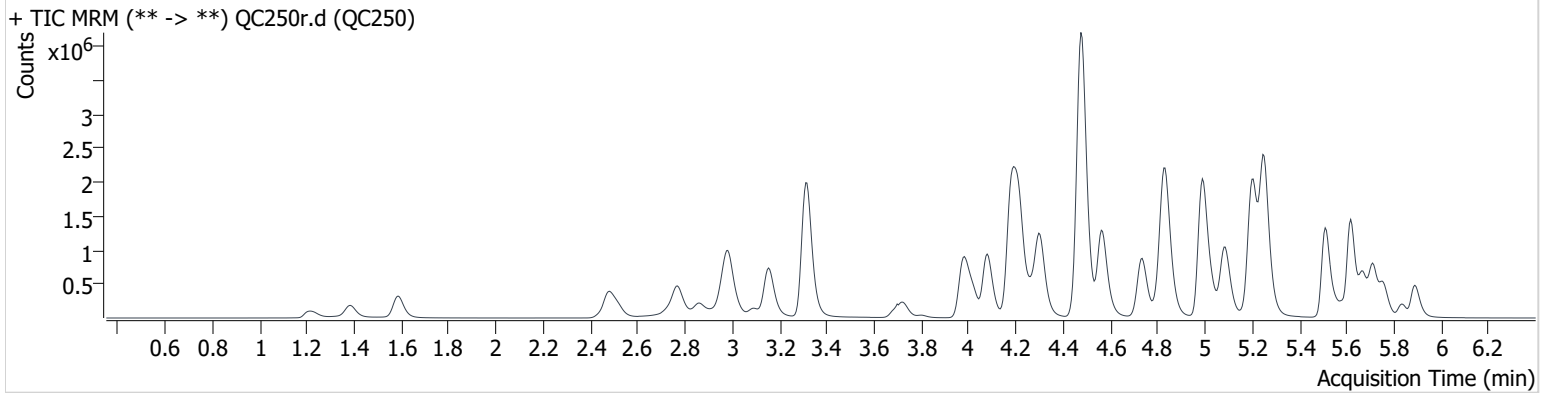
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	QC250r.d
<b>Type</b>	QC	<b>Sample</b>	QC250
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-C2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 7:22:01 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.097	38048	4094.27	74.6	∞	52172	23.1037 ng/ml
<del>7-aminoclonazepam</del>	<del>4.190</del>	<del>331864</del>	<del>8709.63</del>	<del>86.8</del>	<del>25940.86</del>	<del>67227</del>	<del>201.6921 ng/ml</del> <sup>BW</sup>
a-hydroxyalprazolam	5.637	54202	2511.41	58.2	1934.36	11131	238.8556 ng/ml
alpha-PVP	4.306	1915260	32361.77	51.9	22351.68	352542	204.5907 ng/ml
Alprazolam	5.716	777364	4280.83	110.2	9553.45	101406	210.5793 ng/ml
Amphetamine	2.985	1738202	13491.81	51.4	5841.37	123688	224.2783 ng/ml
Benzoylcegonine	3.804	51212	∞	7.6	477.62	6789	235.7954 ng/ml
Buprenorphine	5.739	17497	∞	16.5	3470.80	27182	25.9205 ng/ml
Bupropion	4.738	1573347	3532135.70	59.2	122355.79	225537	233.9863 ng/ml
Carisoprodol	5.672	691464	132459.00	58.6	5104.07	152090	222.7476 ng/ml
Citalopram	5.189	945815	765.19	48.0	702812.40	170980	216.4407 ng/ml
Clonazepam	5.561	204750	9677.96	32.9	115218.78	13166	235.9785 ng/ml
Cocaine	4.215	1978910	4723.80	41.5	155366.66	715195	210.7370 ng/ml
Codeine	2.516	224119	859.72	104.8	48438.41	42409	219.1180 ng/ml
Cyclobenzaprine	5.589	316507	211042.08	11.4	8778.55	49582	207.1420 ng/ml
Dextromethorphan	5.218	577056	∞	75.2	∞	119399	216.2537 ng/ml
Dextrorphan	4.080	770978	∞	212.3	2433.30	348603	226.3176 ng/ml
Diazepam	5.891	618883	13206.55	85.5	10134.18	117694	221.3916 ng/ml
Dihydrocodeine	2.480	688224	∞	64.4	9492.30	179284	219.8071 ng/ml
Diphenhydramine	5.254	3928936	142878.22	33.5	14117.36	745892	215.4606 ng/ml
Doxylamine	4.476	6132057	1380983.50	96.9	753173.27	1078679	231.9032 ng/ml
EDDP	5.202	938161	31479.08	238.1	153270.46	472568	212.3871 ng/ml
Fentanyl	5.040	80097	∞	74.7	45961.66	160152	23.2421 ng/ml
Fluoxetine	5.679	123896	∞	9.2	∞	23606	181.1569 ng/ml
Hydrocodone	2.962	711456	2944.72	39.6	1252.31	172127	228.6612 ng/ml
Hydromorphone	1.588	524925	3815.99	73.6	∞	80858	224.9452 ng/ml
Ketamine	3.979	1639765	∞	38.5	10940.20	329400	223.4518 ng/ml
Lamotrigine	4.258	167710	7990.80	85.3	22057.13	119399	324.7115 ng/ml
Lorazepam	5.694	61509	1966.01	58.2	428.17	101406	220.3072 ng/ml
Meprobamate	4.856	264561	∞	29.5	411.57	43623	243.4303 ng/ml
Methadone	5.618	2106934	175511.80	45.4	∞	391648	224.4496 ng/ml
Methamphetamine	3.157	1248206	∞	39.2	1637.75	234809	225.0742 ng/ml
Metoprolol	4.272	387969	15521.79	93.6	12208.56	745892	286.6172 ng/ml

QC250

\*\* (indicates outside curve range)

Generated at 12:44 PM on 5/29/2019

BW

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
<del>Mirtazapine</del>	<del>4.569</del>	<del>2441950</del>	<del>237970.00</del>	<del>47.7</del>	<del>236040.90</del>	<del>391648</del>	<del>296.5097 ng/ml</del> **
Mirtazapine	4.569	2441950	237970.00	47.7	236040.90	391648	296.5097 ng/ml
Mitragynine	5.173	205770	224388.14	39.9	78529.86	391648	189.1262 ng/ml
Morphine	1.216	123499	7773.79	23.0	384.35	7731	211.6171 ng/ml
Norbuprenorphine	4.948	2580	2764.54	100.0	4620.97	4542	22.2780 ng/ml
Nordiazepam	5.841	289092	∞	62.0	10167.36	41097	217.1461 ng/ml
Norfentanyl	4.030	369913	77466.78	40.1	2619.79	593864	25.0584 ng/ml
Norhydrocodone	3.023	78690	1213.73	41.2	443.35	49508	232.3706 ng/ml
Noroxycodone	2.860	427635	∞	42.2	∞	65697	227.2071 ng/ml
O-desmethyl-tramadol	3.318	4971897	575634.69	6.4	283974.83	905520	213.2417 ng/ml
Oxazepam	5.696	75594	954.85	70.5	1225.64	12692	206.2033 ng/ml
Oxycodone	2.768	1318426	1506.50	29.3	5530.94	242010	219.5582 ng/ml
Oxymorphone	1.385	446706	∞	43.5	∞	69498	226.5829 ng/ml
Phentermine	3.726	634836	∞	4.4	1009.54	292016	243.1857 ng/ml
Promethazine	5.511	503767	14272.85	32.5	4059.07	86718	208.6014 ng/ml
Quetiapine	5.508	1753827	∞	57.5	913525.81	99028	245.8283 ng/ml
Sertraline	5.741	47689	6913.07	102.2	1301.06	9032	205.8429 ng/ml
Temazepam	5.757	659045	6736.03	31.0	3459.96	128847	213.3400 ng/ml
Tramadol	4.186	4381653	331697.28	3.6	5369.49	928656	238.6552 ng/ml
Trazodone	5.086	1746487	105615.55	76.2	88612.72	292322	242.5948 ng/ml
Venlafaxine	4.991	3898865	60579.84	38.5	103851.44	758988	211.2199 ng/ml
Zolpidem	4.832	4734003	499200.29	30.7	56614.22	907971	229.6181 ng/ml

\*\* (indicates outside curve range)

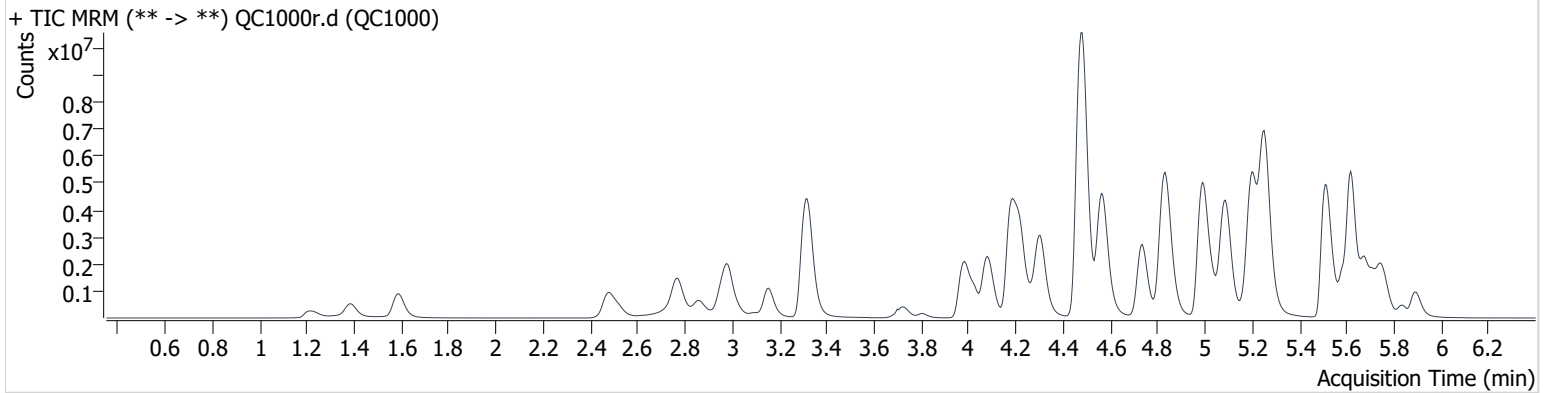
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	QC1000r.d
<b>Type</b>	QC	<b>Sample</b>	QC1000
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-D2	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 7:32:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.097	141978	6756.60	76.0	∞	48136	93.5670 ng/ml <sup>BW</sup> **
7-aminoclonazepam	4.190	424495	10779.04	85.2	8608.82	34632	500.7147 ng/ml <sup>BW</sup> **
a-hydroxyalprazolam	5.642	108007	1273.90	57.8	1216.70	4342	1219.3249 ng/ml <sup>BW</sup> **
alpha-PVP	4.306	5775767	613714.99	52.1	223077.64	252703	853.6227 ng/ml
Alprazolam	5.716	1757035	1378.80	109.8	3202.51	56967	840.5451 ng/ml
Amphetamine	2.990	3043386	11330.02	52.0	7654.26	80642	605.1945 ng/ml <sup>BW</sup> **
Benzoylcegonine	3.804	244524	20981.54	7.7	∞	7438	1024.8088 ng/ml <sup>BW</sup> **
Buprenorphine	5.739	59012	97310.76	15.8	11589.44	21991	108.0230 ng/ml <sup>BW</sup> **
Bupropion	4.738	5393504	737749.29	58.3	277961.84	192924	936.6595 ng/ml
Carisoprodol	5.672	1277267	362647.71	58.5	34570.62	77191	810.1829 ng/ml
Citalopram	5.184	2288350	133898.22	47.6	202760.33	108493	821.3527 ng/ml
Clonazepam	5.561	503328	88901.15	33.7	4741.85	8792	867.4726 ng/ml
Cocaine	4.215	5091626	588498.43	40.7	339969.95	450546	854.9173 ng/ml
Codeine	2.516	603918	∞	104.2	3428.94	26557	940.7957 ng/ml
Cyclobenzaprine	5.589	3118450	∞	10.9	80613.42	117772	851.9180 ng/ml
Dextromethorphan	5.223	1819130	139112.97	76.4	11339.66	93856	865.6865 ng/ml
Dextrorphan	4.080	2287034	275461.91	216.4	967304.30	263680	882.2935 ng/ml
Diazepam	5.896	1510399	6457.61	85.5	9048.52	74041	855.3019 ng/ml
Dihydrocodeine	2.475	1857405	∞	65.0	142848.22	166099	641.0196 ng/ml <sup>BW</sup> **
Diphenhydramine	5.254	14056355	4831069.99	33.2	81735.68	646857	881.3109 ng/ml
Doxylamine	4.481	18471225	77147.93	97.4	1026179.13	961823	782.9363 ng/ml
EDDP	5.207	3299346	28843.49	243.0	33417.30	409010	860.9901 ng/ml
Fentanyl	5.041	644509	5515.40	77.1	598376.27	284302	105.2069 ng/ml <sup>BW</sup> **
Fluoxetine	5.679	2327354	∞	8.8	∞	96982	824.2218 ng/ml
Hydrocodone	2.957	2404200	7748.12	39.2	7699.06	159940	830.3090 ng/ml
Hydromorphone	1.588	1685704	1563.89	73.3	1576.78	67598	862.9279 ng/ml
Ketamine	3.984	4890299	268053.88	37.6	100715.91	273585	802.2369 ng/ml
Lamotrigine	4.253	309904	15978.39	85.9	14351.33	93856	766.8756 ng/ml
Lorazepam	5.694	131175	3121.03	57.1	5194.02	56967	836.8420 ng/ml <sup>BW</sup> **
Meprobamate	4.861	600473	439609.37	29.9	6581.14	20640	1166.0174 ng/ml <sup>BW</sup> **
Methadone	5.618	9471566	34820.47	45.1	130782.28	434849	902.9751 ng/ml
Methamphetamine	3.157	1883405	∞	39.0	1335.49	99976	805.2524 ng/ml
Metoprolol	4.272	784429	∞	96.4	∞	646857	697.8222 ng/ml

QC1000

\*\* (indicates outside of curve range)

Generated at 12:44 PM on 5/29/2019

BW

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	9942520	306790.14	46.2	1306637.26	434849	1091.7097 ng/ml <sup>**</sup>
Mitragynine	5.168	1174137	755790.34	40.6	605966.67	434849	971.7706 ng/ml <sup>BW</sup>
Morphine	1.216	360899	∞	23.3	∞	5701	838.3011 ng/ml
Norbuprenorphine	4.948	13177	∞	92.3	23932.83	6198	84.5698 ng/ml
Nordiazepam	5.841	675492	45463.05	60.5	10463.89	25763	809.2232 ng/ml
Norfentanyl	4.030	1279581	∞	40.3	2603.35	428373	119.9689 ng/ml <sup>**</sup>
Norhydrocodone	3.023	303573	1556.35	40.6	638.50	40553	1082.4878 ng/ml <sup>**</sup>
Noroxycodone	2.860	1402920	∞	41.4	∞	56527	866.6710 ng/ml
O-desmethyl-tramadol	3.318	14349332	495249.60	6.3	∞	649646	851.3667 ng/ml
Oxazepam	5.696	154135	1730.42	71.7	1196.46	6498	815.7246 ng/ml
Oxycodone	2.766	4840684	∞	28.7	3499.73	234159	830.9035 ng/ml
Oxymorphone	1.385	1516069	13157202.79	43.1	∞	64440	828.4945 ng/ml
Phentermine	3.726	1325297	∞	4.2	2526.81	191136	781.8403 ng/ml <sup>**</sup>
Promethazine	5.511	5581696	410523.84	31.0	∞	228493	871.1619 ng/ml
Quetiapine	5.514	5115139	∞	57.8	∞	109632	647.6730 ng/ml <sup>**</sup>
Sertraline	5.741	1263856	620980.41	101.6	8399.52	57184	851.2705 ng/ml <sup>BW</sup>
Temazepam	5.762	1641369	12644.57	31.2	3437.24	75784	901.1316 ng/ml
Tramadol	4.181	11094337	525029.53	3.4	63266.56	701106	801.0979 ng/ml
Trazodone	5.087	8115556	88390.82	76.3	191856.62	383059	859.9203 ng/ml <sup>**</sup>
Venlafaxine	4.991	11976632	1019663.97	37.5	153869.82	574254	850.4971 ng/ml
Zolpidem	4.832	13869217	506864.93	30.2	160391.24	790040	772.6480 ng/ml <sup>**</sup>

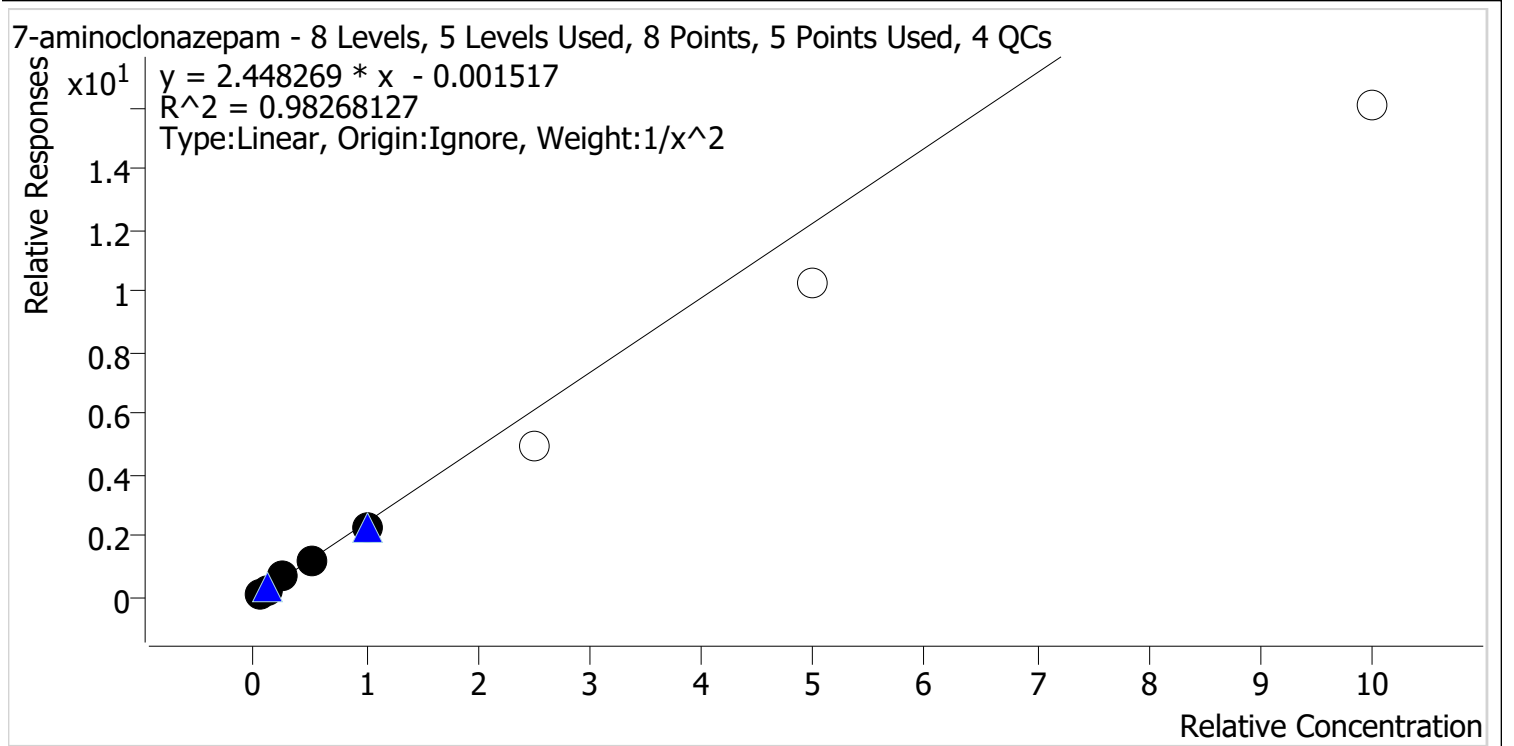
\*\* (indicates outside of curve range)

BW



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	7-aminoclonazepam	<b>Internal Standard</b>	7-Aminoclonazepam-D4

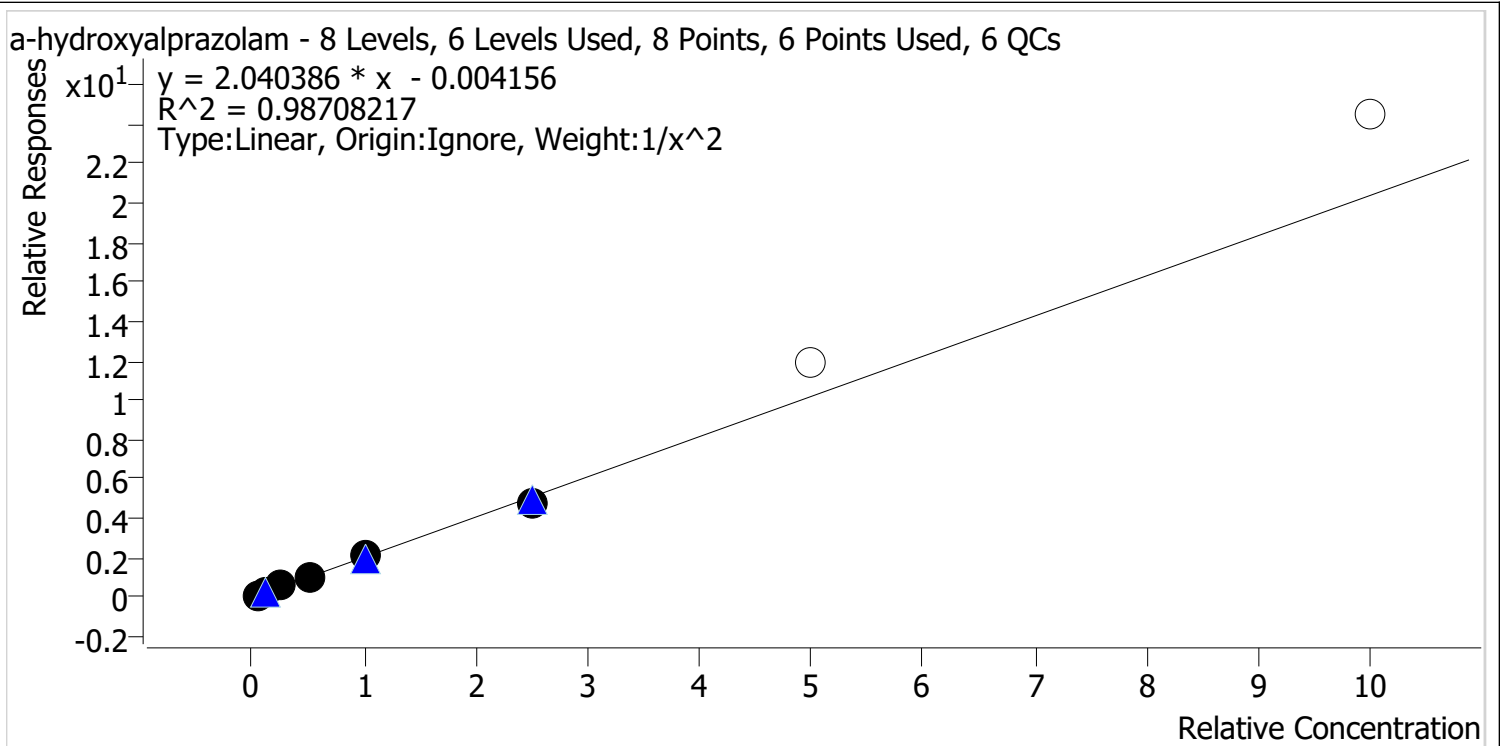


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.2	101.7
cal 3	3	✓	25.0	29.2	116.8
cal 4	4	✓	50.0	46.7	93.4
cal 5	5	✓	100.0	91.1	91.1
cal 6	6	✗	250.0	204.4	81.8
cal 7	7	✗	500.0	419.2	83.8
cal 8	8	✗	1000.0	656.5	65.7

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	a-hydroxyalprazolam	<b>Internal Standard</b>	a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.4	94.3
cal 3	3	✓	25.0	29.3	117.1
cal 4	4	✓	50.0	45.7	91.4
cal 5	5	✓	100.0	102.4	102.4
cal 6	6	✓	250.0	236.4	94.6
cal 7	7	✗	500.0	587.6	117.5
cal 8	8	✗	1000.0	1204.3	120.4

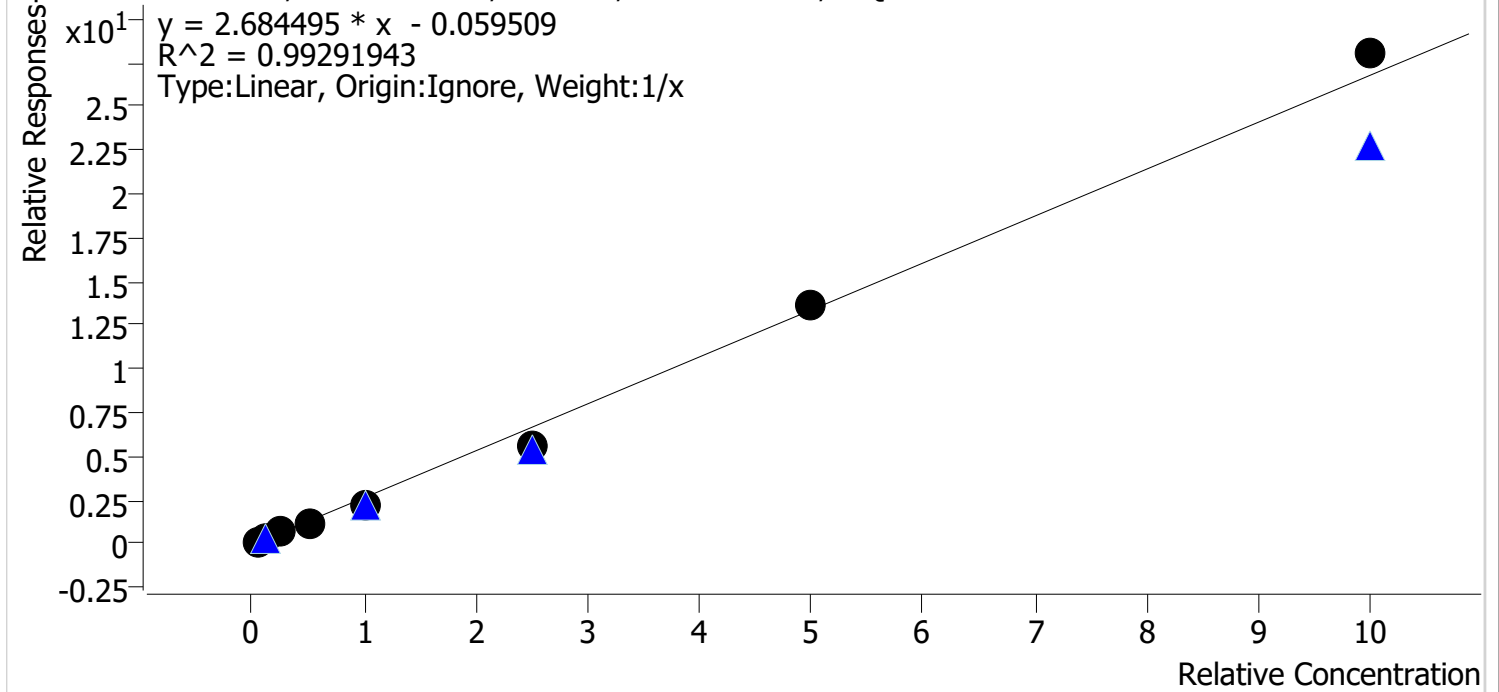


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP

**Internal Standard** alpha-PVP-d8

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



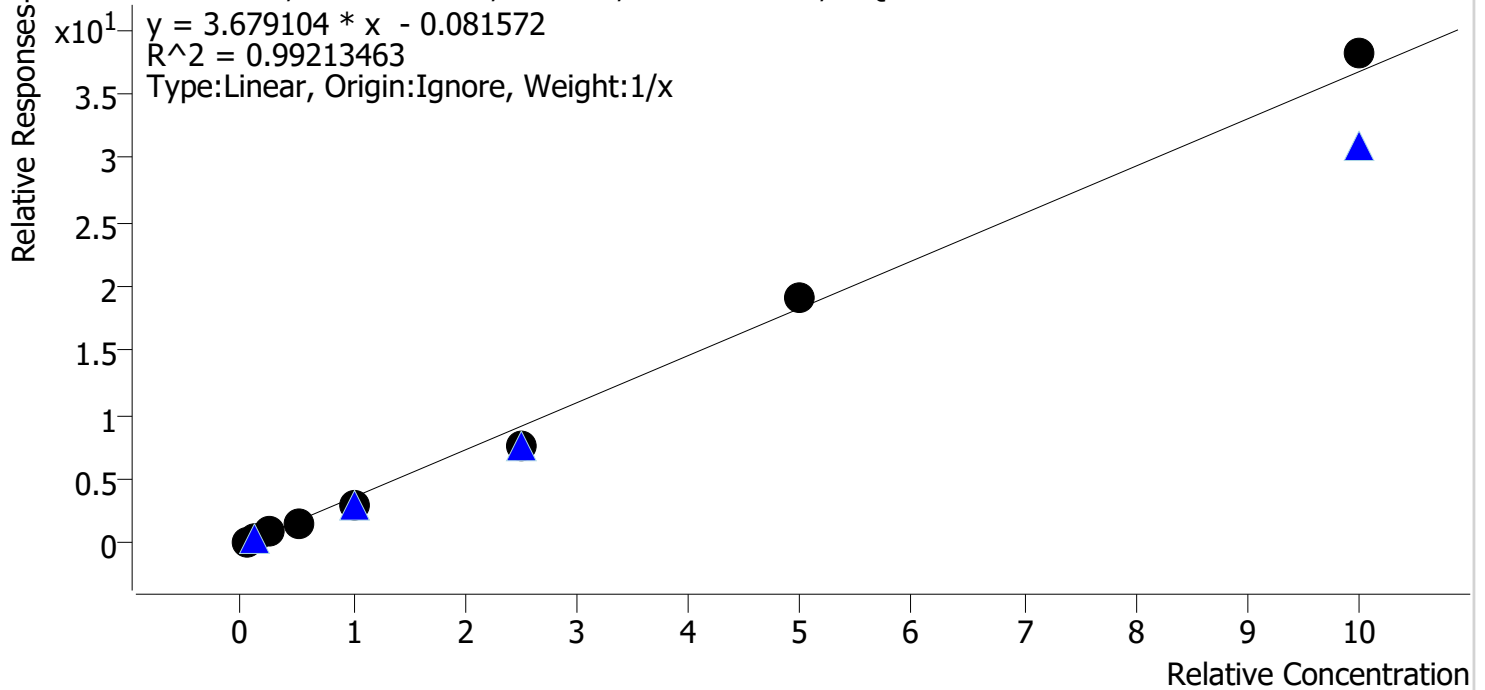
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.2	124.4
cal 2	2	✓	10.0	10.7	106.6
cal 3	3	✓	25.0	26.9	107.4
cal 4	4	✓	50.0	42.6	85.2
cal 5	5	✓	100.0	85.5	85.5
cal 6	6	✓	250.0	209.7	83.9
cal 7	7	✓	500.0	512.3	102.5
cal 8	8	✓	1000.0	1046.2	104.6

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 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
cal 1	1	✓	5.0	6.2	124.9
cal 2	2	✓	10.0	10.6	105.6
cal 3	3	✓	25.0	27.1	108.3
cal 4	4	✓	50.0	42.2	84.3
cal 5	5	✓	100.0	85.8	85.8
cal 6	6	✓	250.0	206.1	82.5
cal 7	7	✓	500.0	523.9	104.8
cal 8	8	✓	1000.0	1038.1	103.8

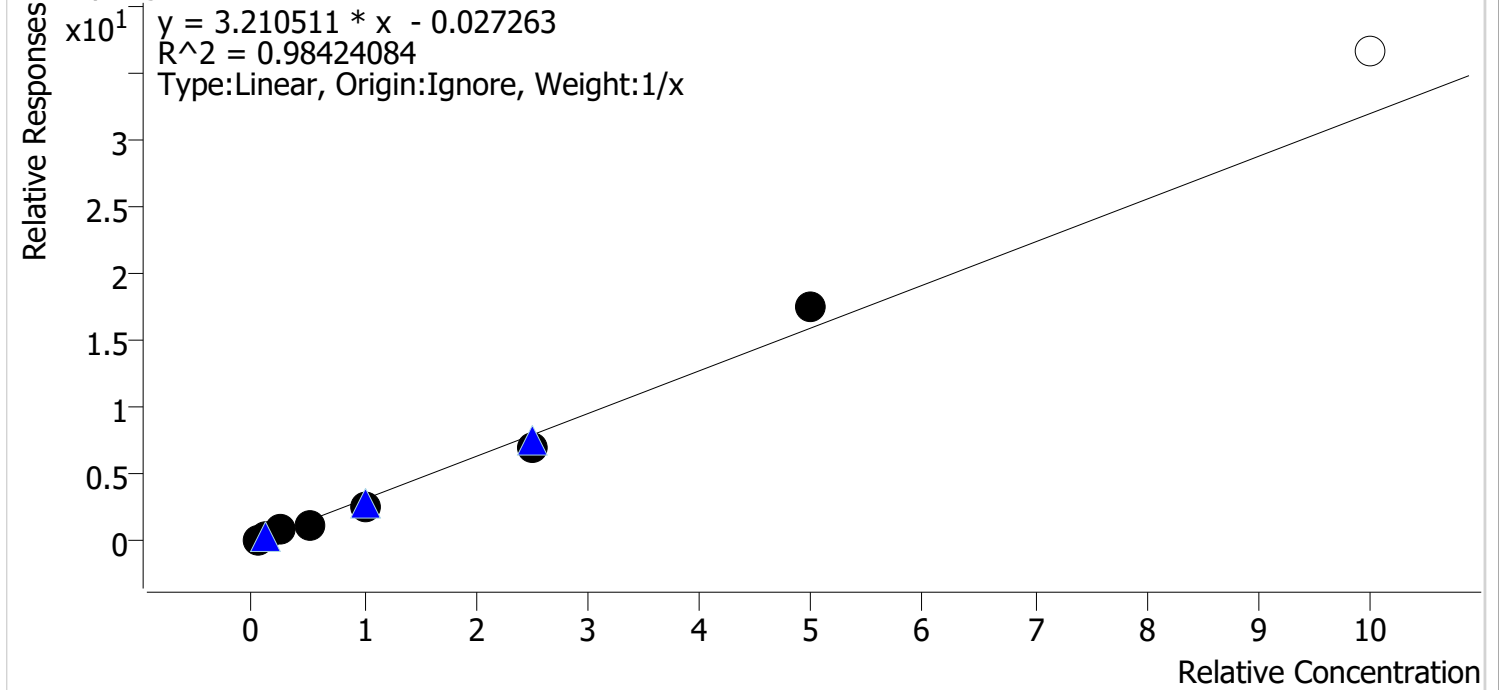
*BW*



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Benzoylecgonine	<b>Internal Standard</b>	Benzoylecgonine-d8

Benzoylecgonine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 6 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.8	116.4
cal 2	2	✓	10.0	10.2	102.0
cal 3	3	✓	25.0	28.7	114.7
cal 4	4	✓	50.0	42.1	84.2
cal 5	5	✓	100.0	85.4	85.4
cal 6	6	✓	250.0	218.3	87.3
cal 7	7	✓	500.0	549.5	109.9
cal 8	8	✗	1000.0	1144.5	114.4

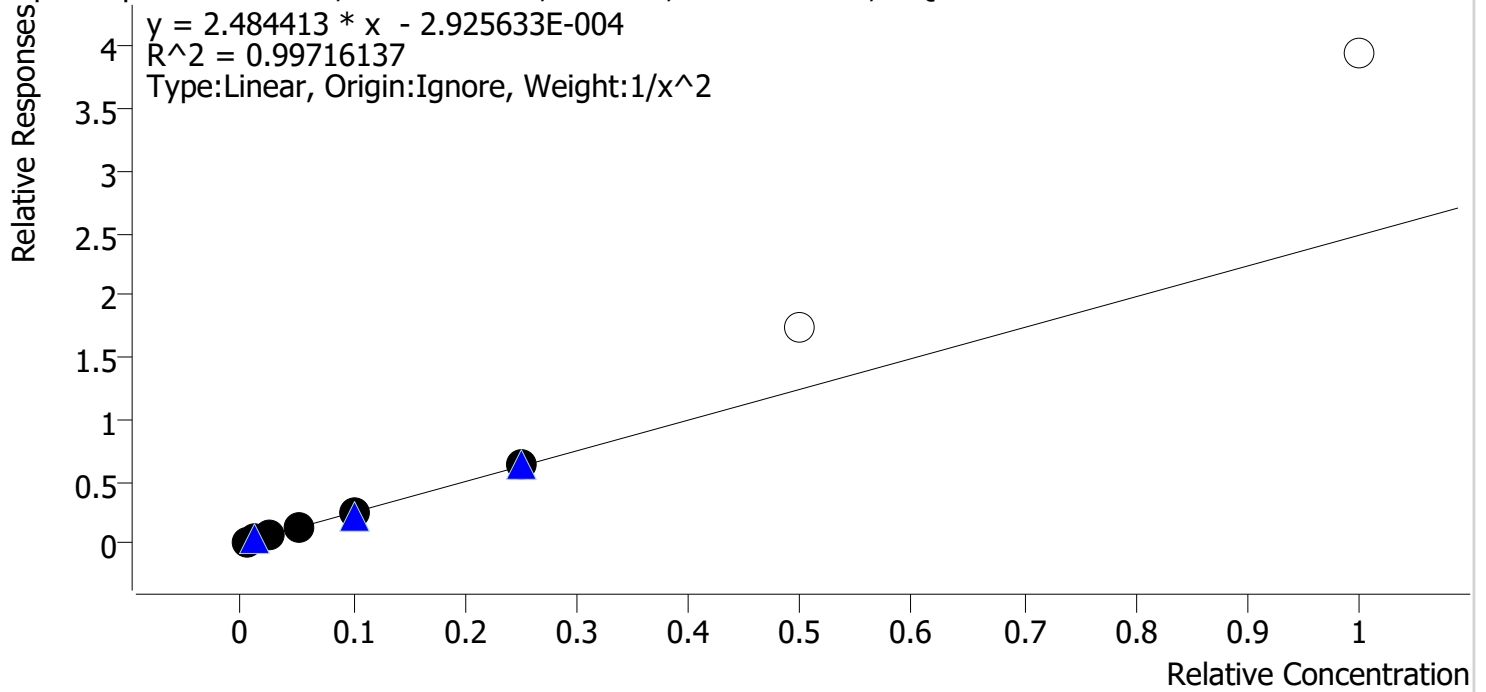
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine

**Internal Standard** Buprenorphine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	100.2
cal 2	2	✓	1.0	1.0	97.7
cal 3	3	✓	2.5	2.7	107.4
cal 4	4	✓	5.0	4.8	95.7
cal 5	5	✓	10.0	9.7	96.8
cal 6	6	✓	25.0	25.6	102.2
cal 7	7	✗	50.0	70.6	141.2
cal 8	8	✗	100.0	159.0	159.0

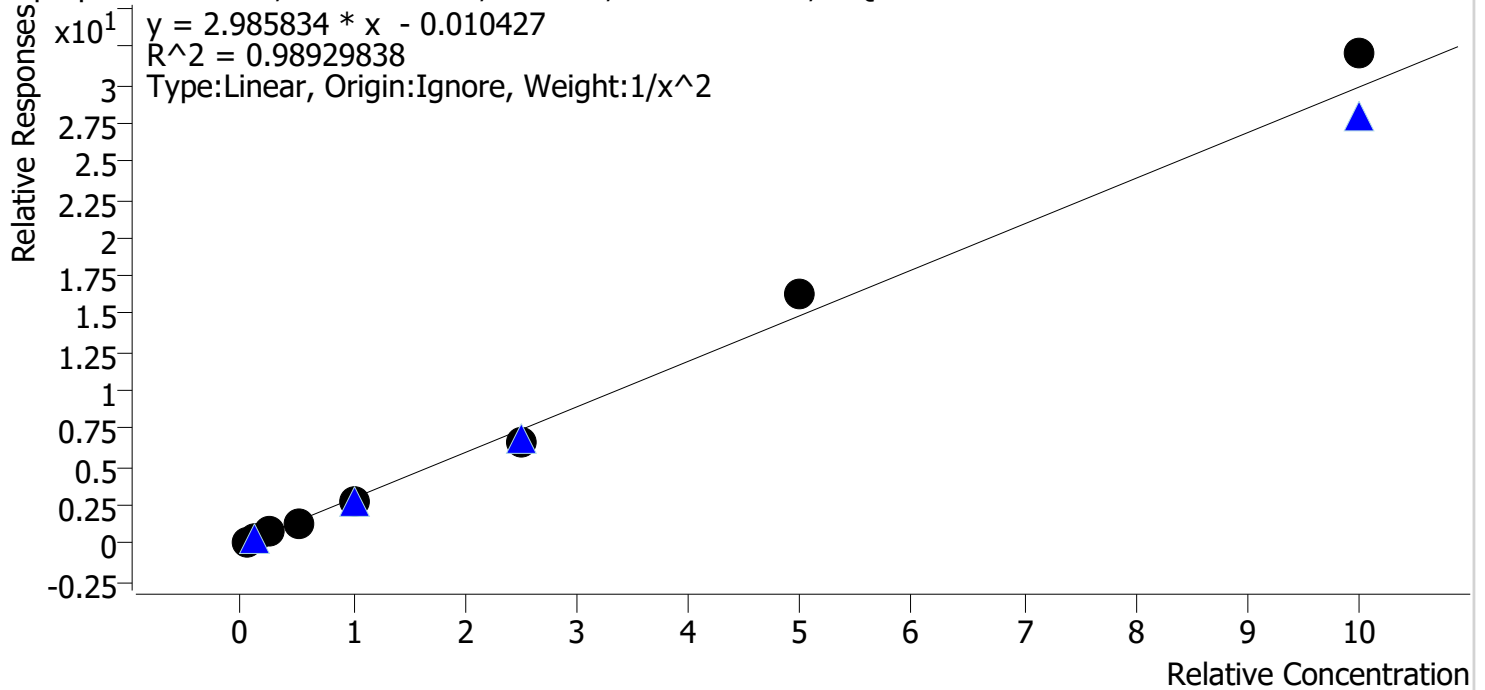
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 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
cal 1	1	✓	5.0	5.0	99.8
cal 2	2	✓	10.0	9.8	97.9
cal 3	3	✓	25.0	28.3	113.2
cal 4	4	✓	50.0	45.6	91.1
cal 5	5	✓	100.0	92.2	92.2
cal 6	6	✓	250.0	223.3	89.3
cal 7	7	✓	500.0	545.9	109.2
cal 8	8	✓	1000.0	1073.2	107.3

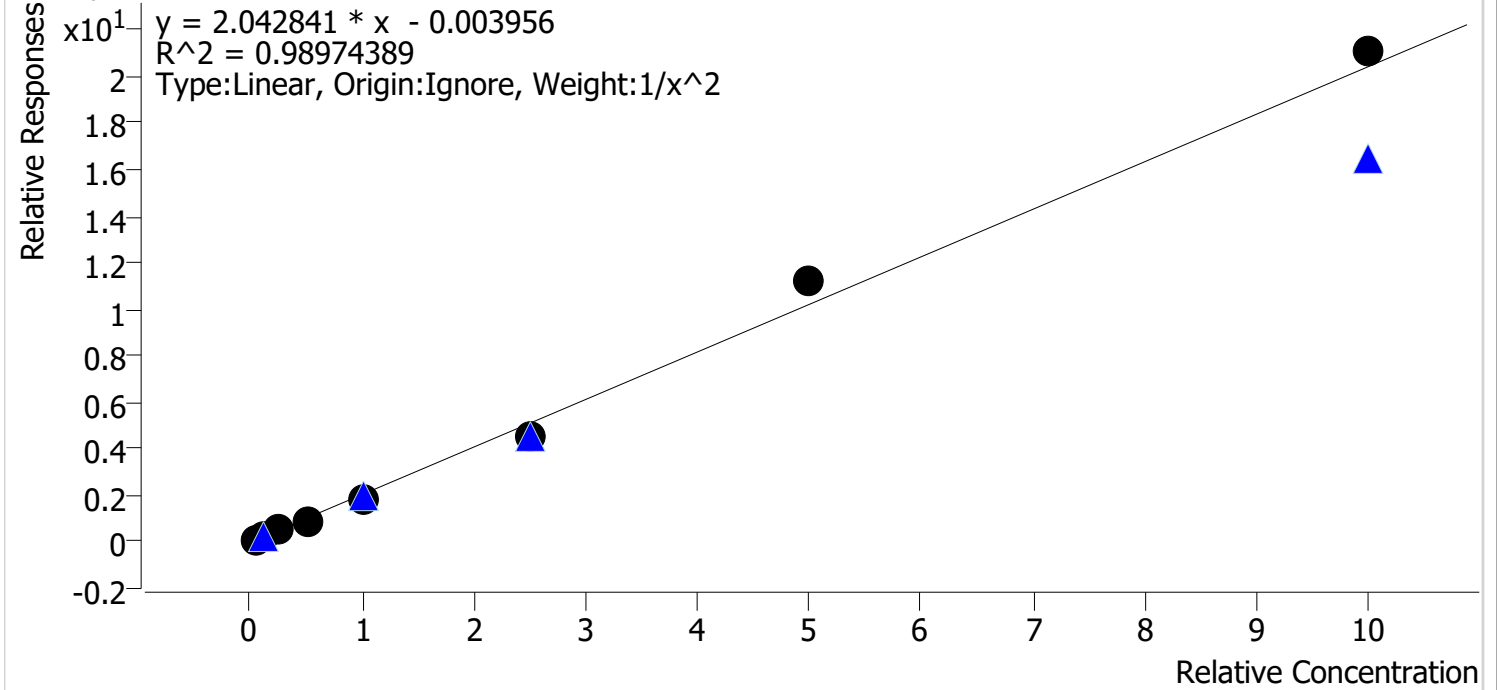
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Carisoprodol

**Internal Standard**      Carisoprodol-D7

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.0	99.5
cal 3	3	✓	25.0	28.8	115.1
cal 4	4	✓	50.0	46.2	92.4
cal 5	5	✓	100.0	92.0	92.0
cal 6	6	✓	250.0	225.3	90.1
cal 7	7	✓	500.0	546.4	109.3
cal 8	8	✓	1000.0	1031.8	103.2

*BW*



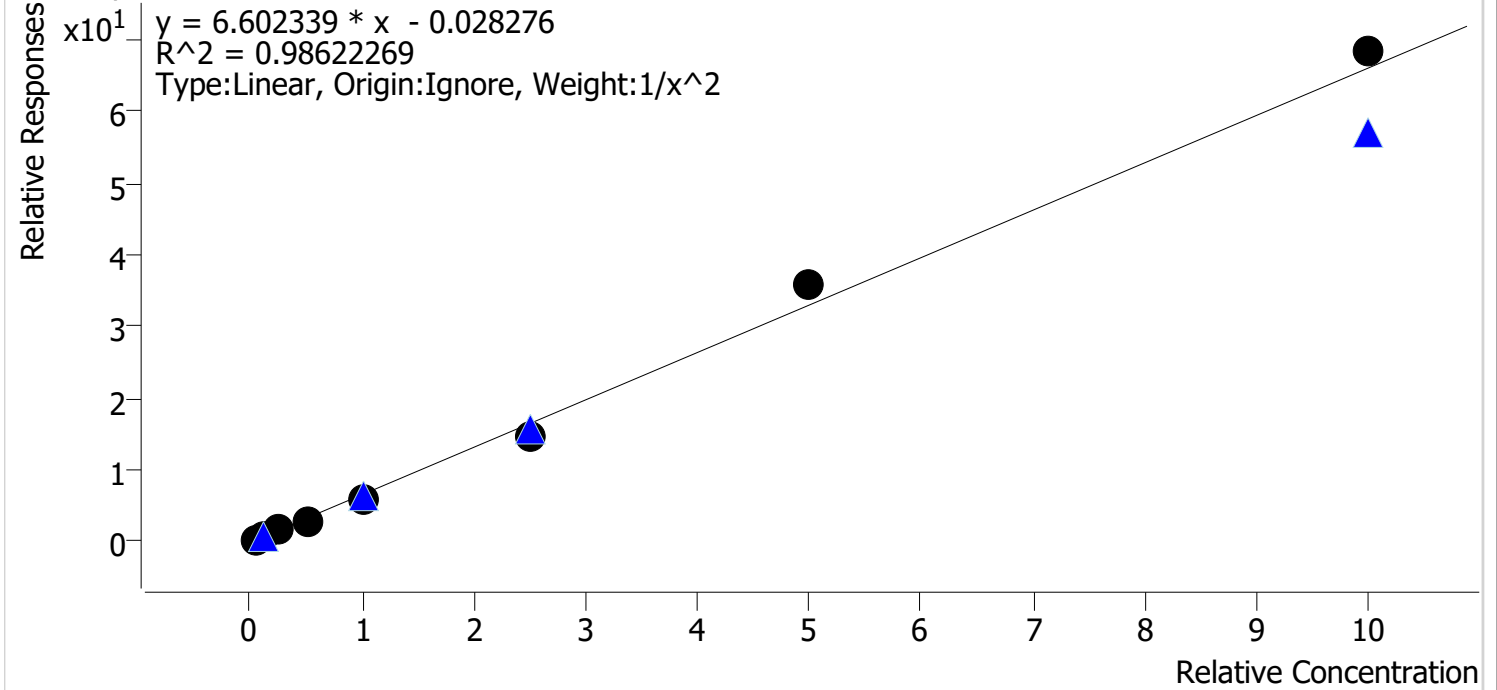


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam

**Internal Standard** Clonazepam-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.7
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	29.6	118.4
cal 4	4	✓	50.0	44.9	89.7
cal 5	5	✓	100.0	92.3	92.3
cal 6	6	✓	250.0	221.5	88.6
cal 7	7	✓	500.0	542.5	108.5
cal 8	8	✓	1000.0	1034.8	103.5

*BW*

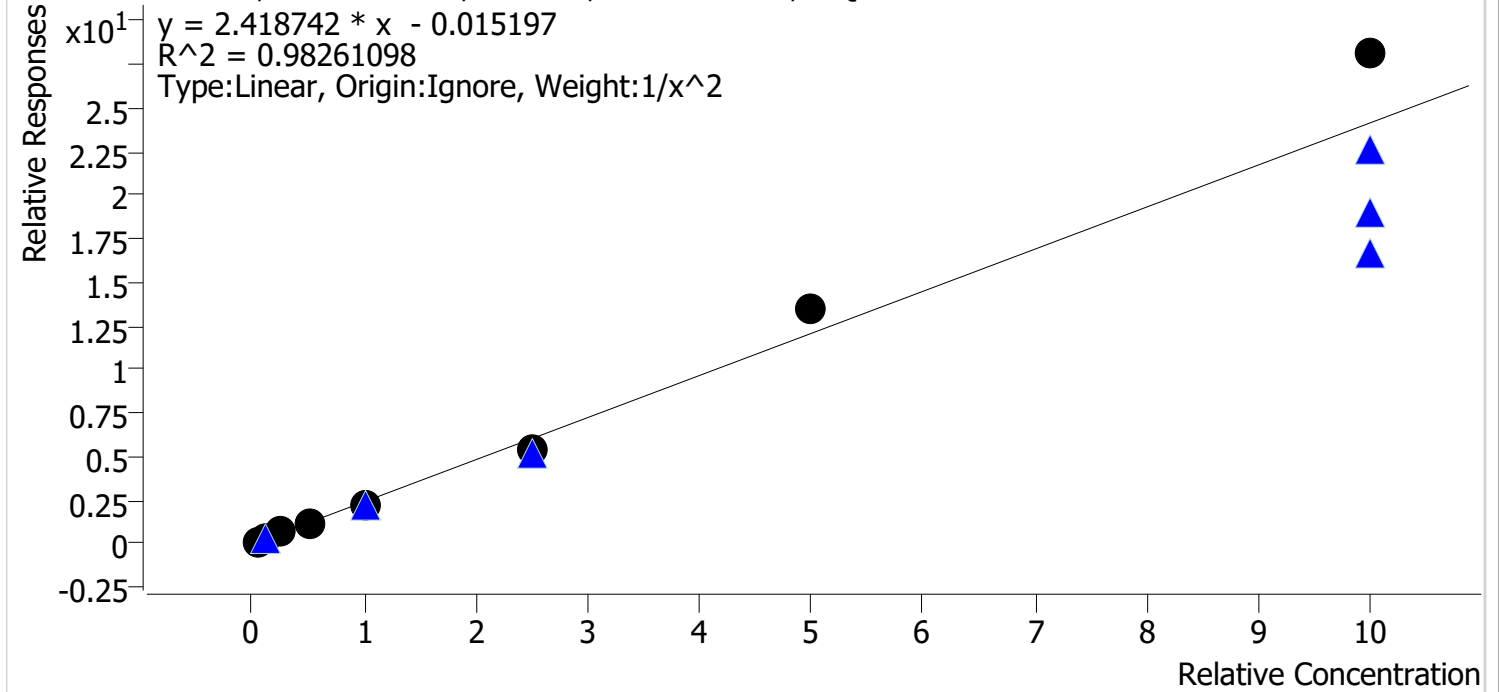


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine

**Internal Standard** Codeine-D6

Codeine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



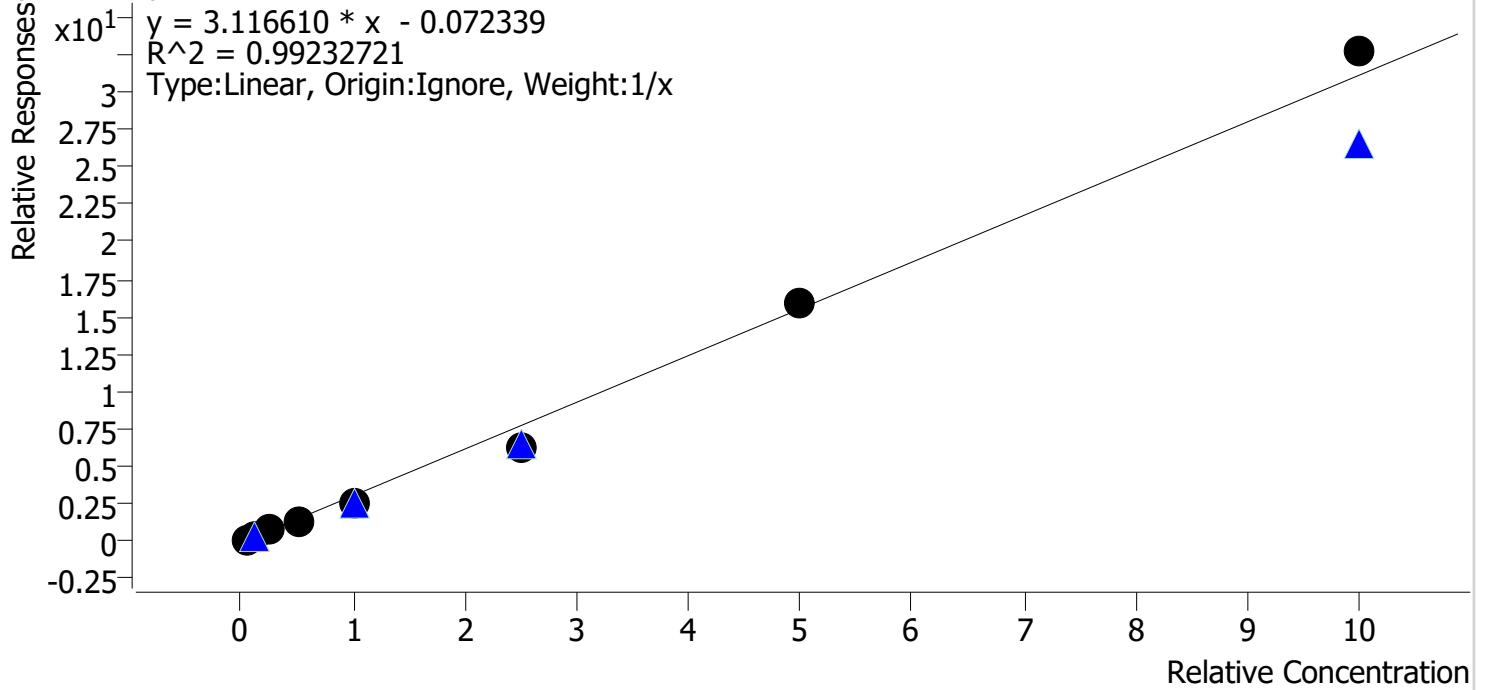
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.7
cal 2	2	✓	10.0	9.5	94.6
cal 3	3	✓	25.0	27.3	109.1
cal 4	4	✓	50.0	43.9	87.8
cal 5	5	✓	100.0	88.9	88.9
cal 6	6	✓	250.0	221.4	88.5
cal 7	7	✓	500.0	559.3	111.9
cal 8	8	✓	1000.0	1164.5	116.5

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Cyclobenzaprine	<b>Internal Standard</b>	Cyclobenzaprine-D3

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



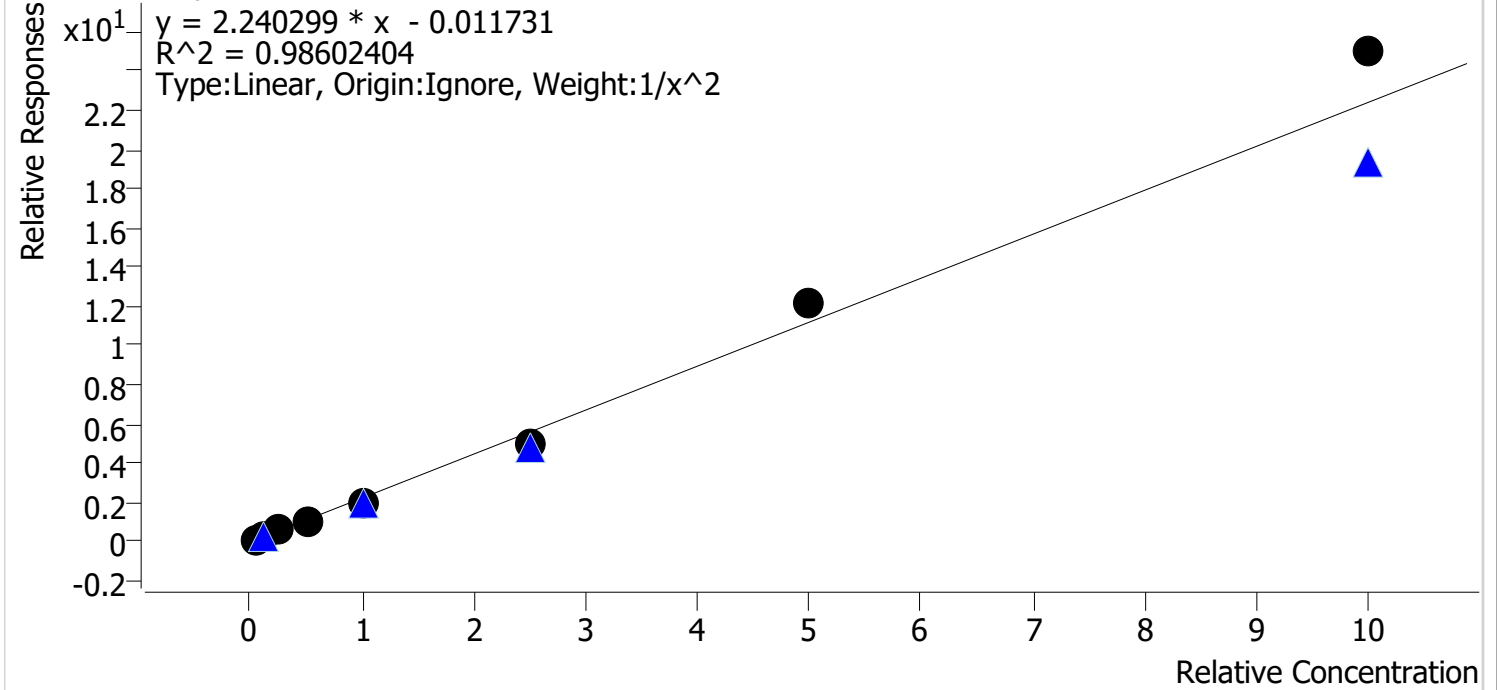
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.8	116.9
cal 2	2	✓	10.0	10.7	107.1
cal 3	3	✓	25.0	28.2	112.9
cal 4	4	✓	50.0	43.7	87.4
cal 5	5	✓	100.0	86.5	86.5
cal 6	6	✓	250.0	205.9	82.4
cal 7	7	✓	500.0	508.5	101.7
cal 8	8	✓	1000.0	1050.5	105.1

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dextromethorphan	<b>Internal Standard</b>	Dextromethorphan-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.6
cal 2	2	✓	10.0	9.7	96.7
cal 3	3	✓	25.0	28.5	113.9
cal 4	4	✓	50.0	44.5	89.0
cal 5	5	✓	100.0	89.0	89.0
cal 6	6	✓	250.0	226.4	90.6
cal 7	7	✓	500.0	544.1	108.8
cal 8	8	✓	1000.0	1115.6	111.6

*BW*

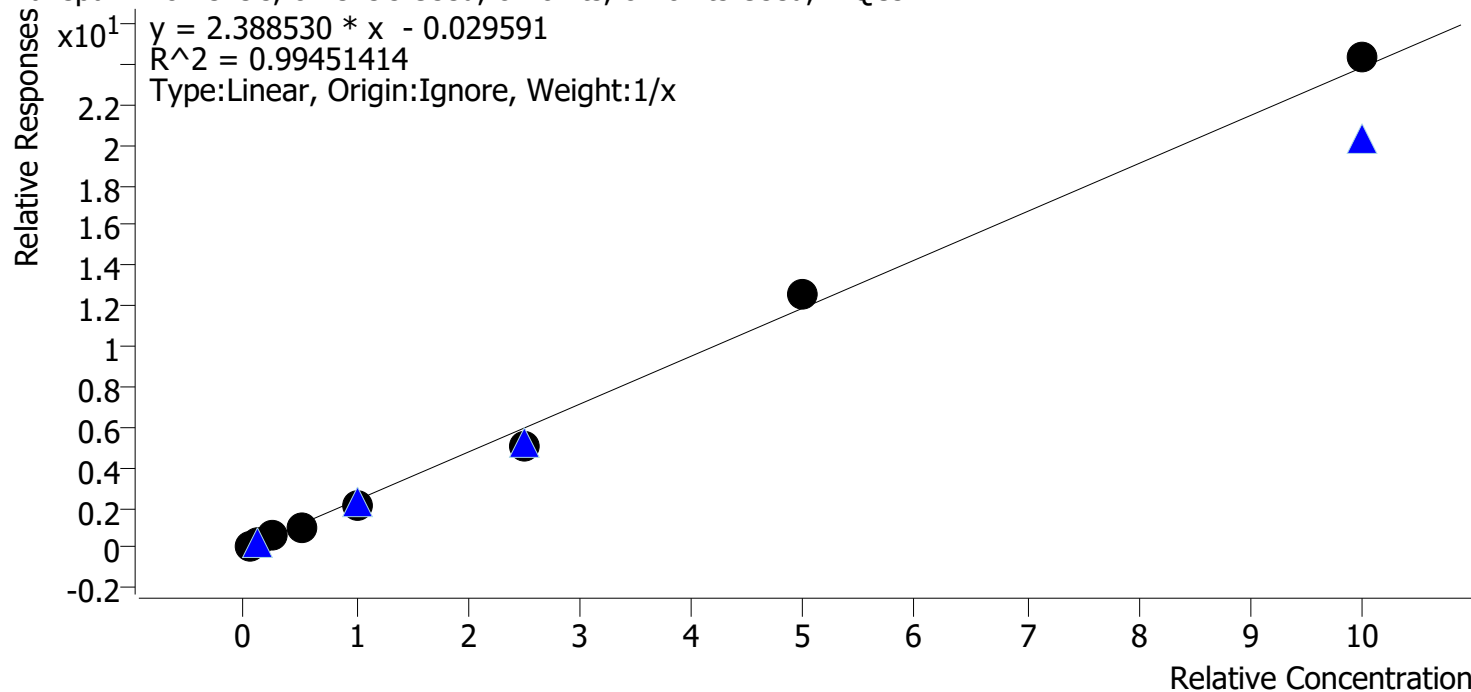


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam

**Internal Standard** Diazepam-D5

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



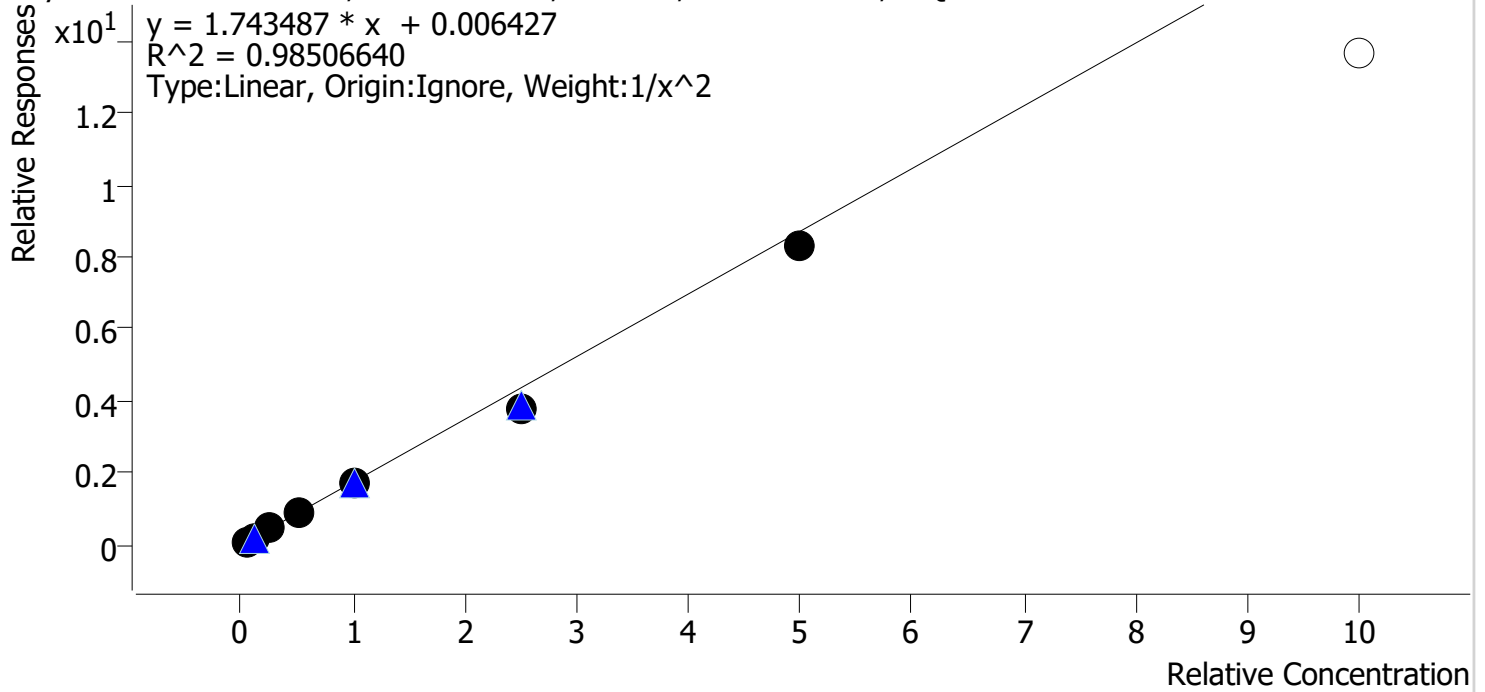
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.6	112.8
cal 2	2	✓	10.0	10.0	100.1
cal 3	3	✓	25.0	28.7	114.8
cal 4	4	✓	50.0	45.4	90.8
cal 5	5	✓	100.0	88.8	88.8
cal 6	6	✓	250.0	213.0	85.2
cal 7	7	✓	500.0	528.0	105.6
cal 8	8	✓	1000.0	1020.4	102.0

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

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



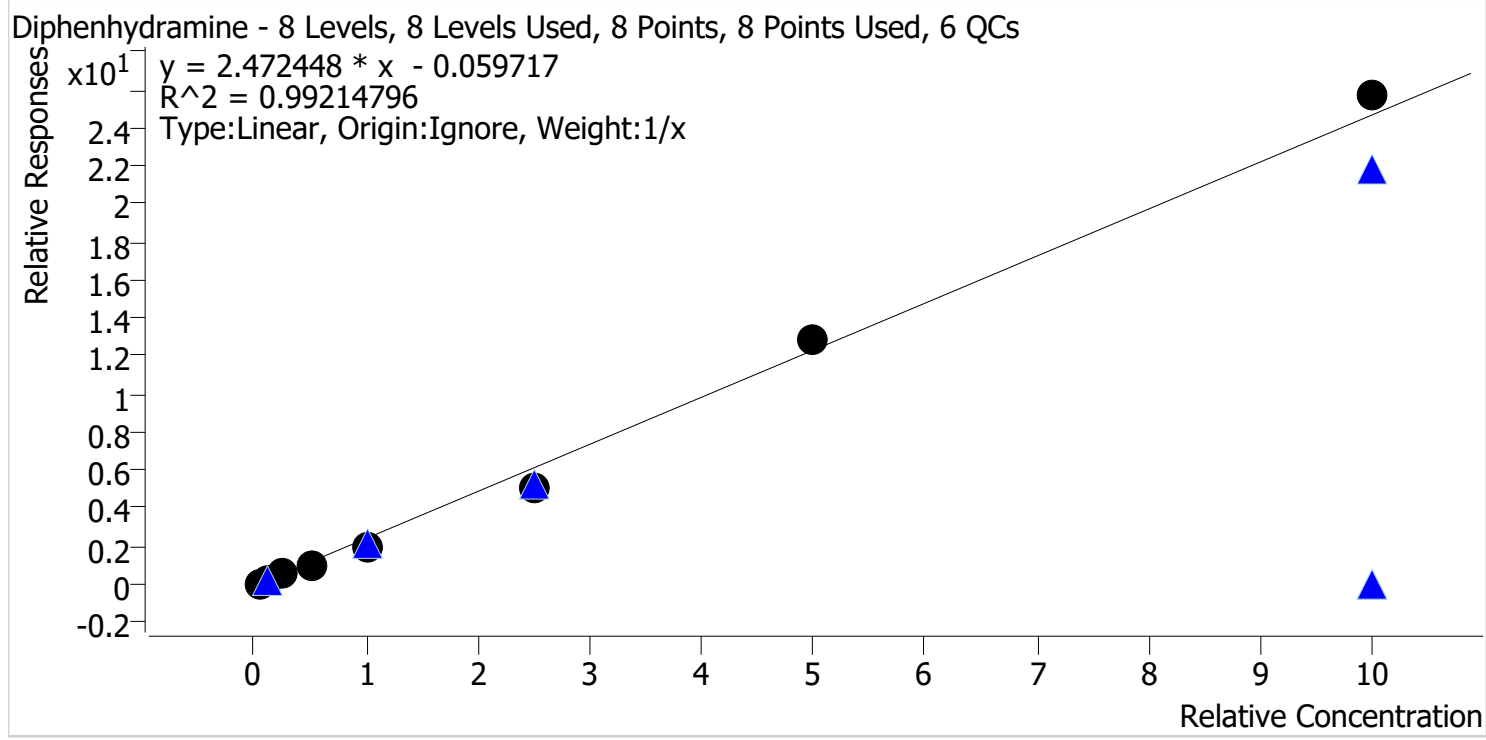
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.7
cal 2	2	✓	10.0	10.5	105.5
cal 3	3	✓	25.0	29.9	119.8
cal 4	4	✓	50.0	50.0	100.1
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	218.2	87.3
cal 7	7	✓	500.0	475.9	95.2
cal 8	8	✗	1000.0	783.3	78.3

*BW*



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Diphenhydramine	<b>Internal Standard</b>	Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.3	126.8
cal 2	2	✓	10.0	10.6	105.6
cal 3	3	✓	25.0	27.0	108.1
cal 4	4	✓	50.0	42.3	84.6
cal 5	5	✓	100.0	83.3	83.3
cal 6	6	✓	250.0	208.5	83.4
cal 7	7	✓	500.0	521.0	104.2
cal 8	8	✓	1000.0	1041.0	104.1

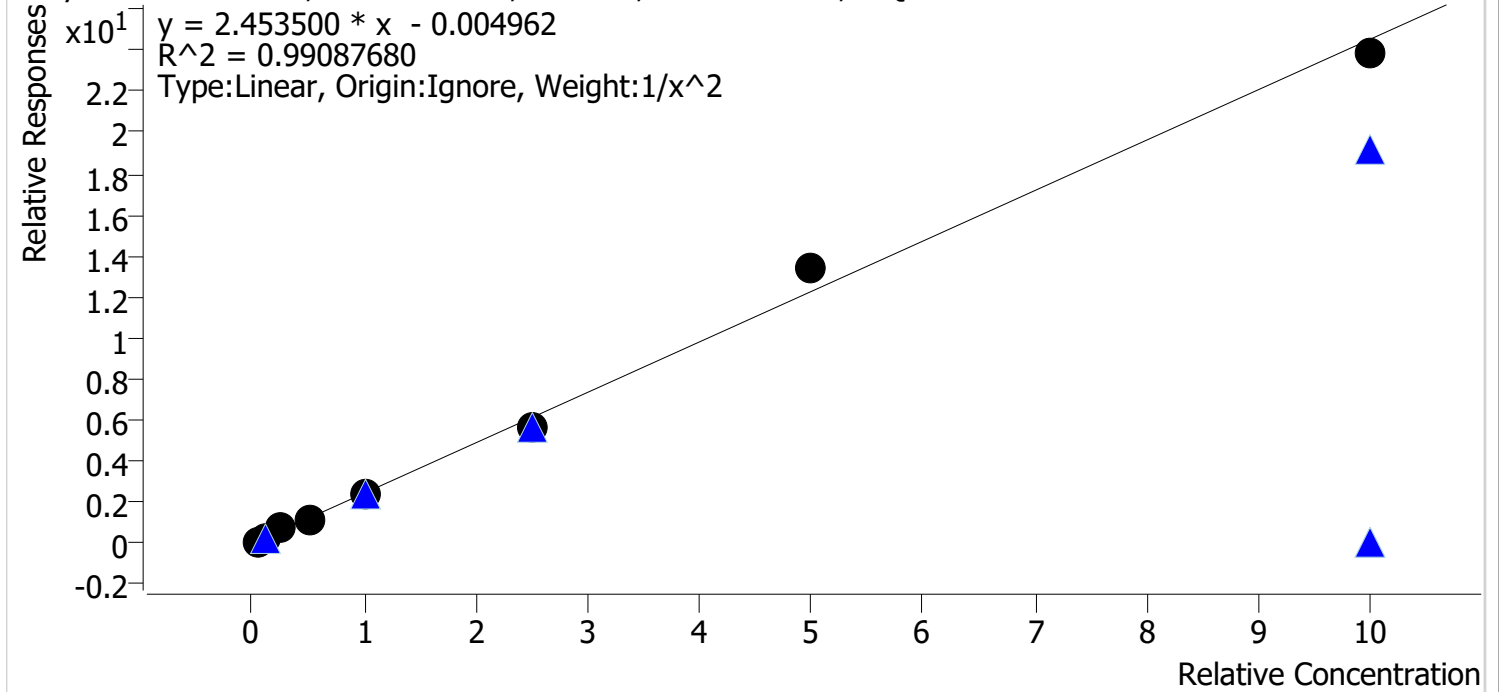
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Doxylamine

**Internal Standard**      Doxylamine-D5

Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.1
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	28.8	115.3
cal 4	4	✓	50.0	46.6	93.3
cal 5	5	✓	100.0	94.9	94.9
cal 6	6	✓	250.0	229.1	91.6
cal 7	7	✓	500.0	549.6	109.9
cal 8	8	✓	1000.0	971.6	97.2

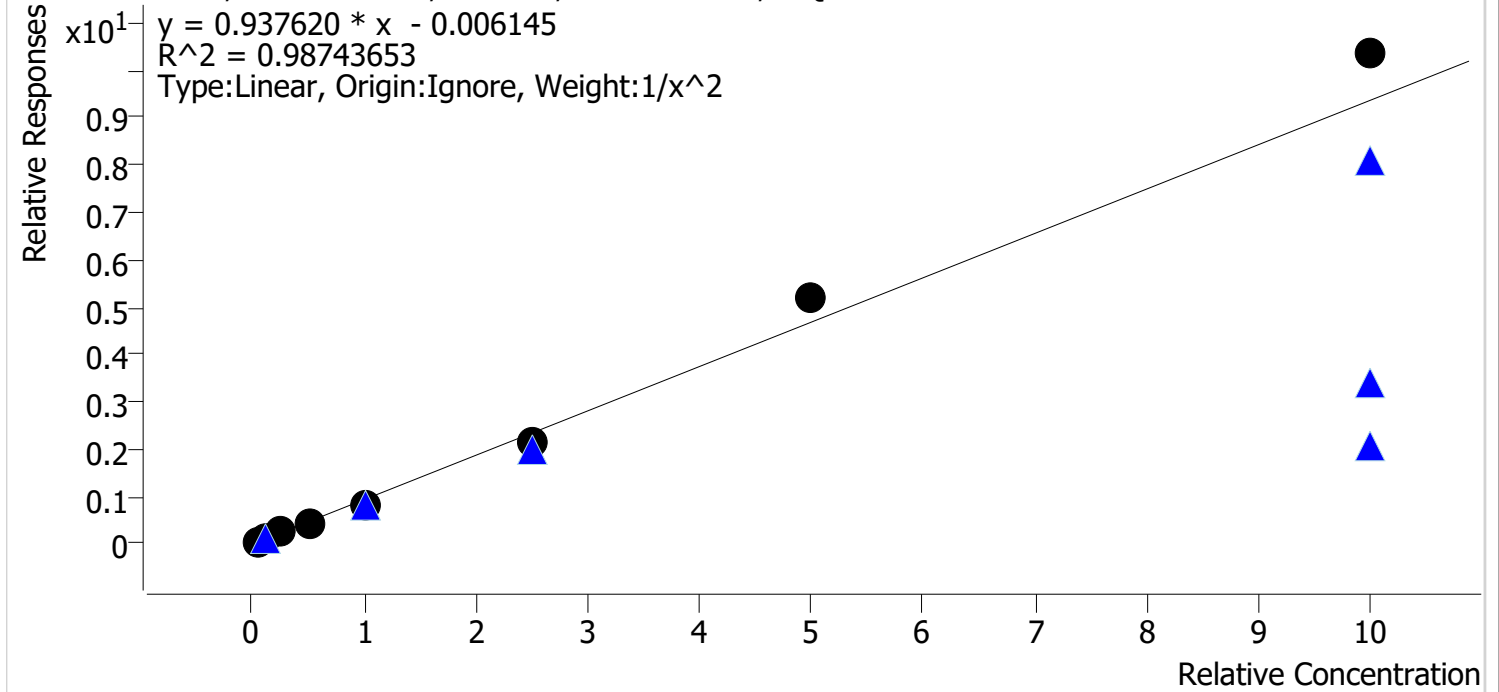
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                EDDP

**Internal Standard**      EDDP-D3

EDDP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.6
cal 2	2	✓	10.0	9.6	96.0
cal 3	3	✓	25.0	27.5	110.1
cal 4	4	✓	50.0	44.1	88.3
cal 5	5	✓	100.0	91.1	91.1
cal 6	6	✓	250.0	226.7	90.7
cal 7	7	✓	500.0	558.5	111.7
cal 8	8	✓	1000.0	1105.4	110.5

*BW*



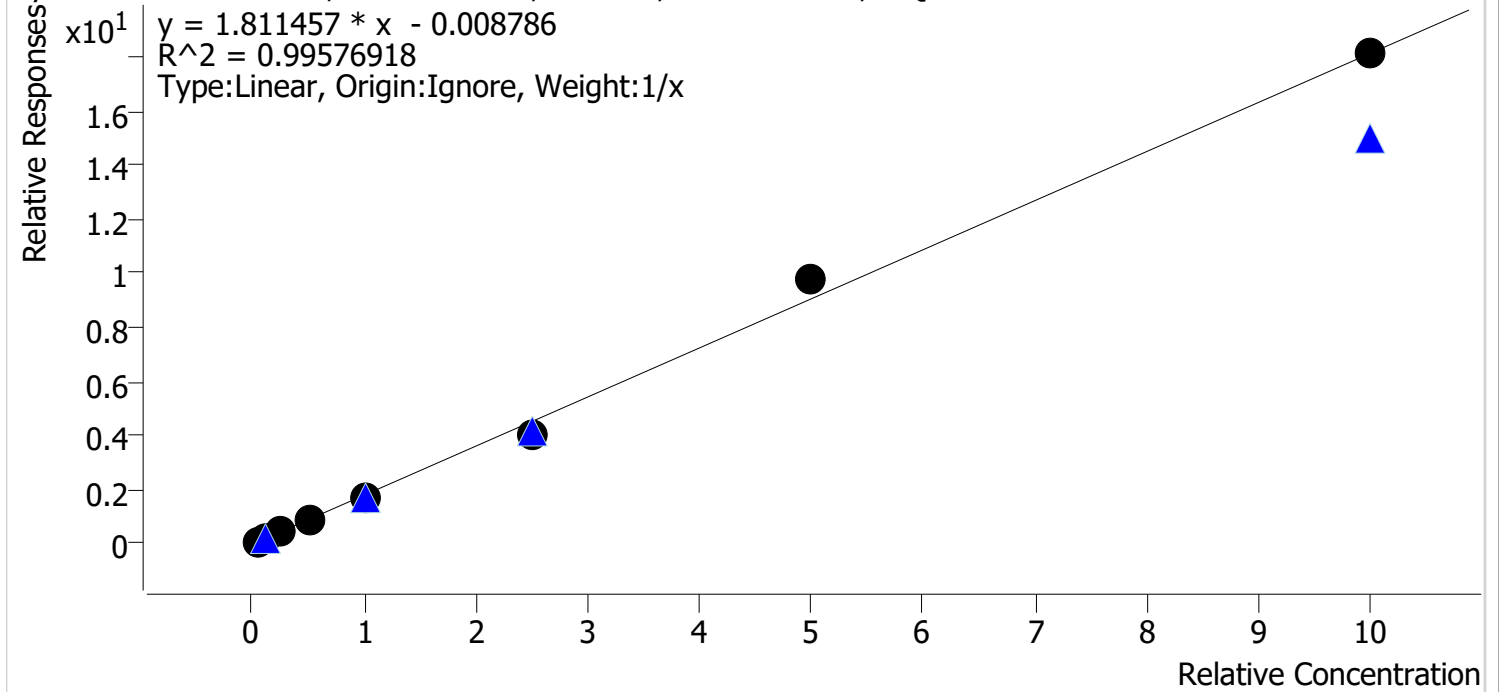


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 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
cal 1	1	✓	5.0	5.1	102.5
cal 2	2	✓	10.0	10.0	100.5
cal 3	3	✓	25.0	28.7	115.0
cal 4	4	✓	50.0	46.7	93.5
cal 5	5	✓	100.0	93.3	93.3
cal 6	6	✓	250.0	219.9	88.0
cal 7	7	✓	500.0	536.5	107.3
cal 8	8	✓	1000.0	999.6	100.0

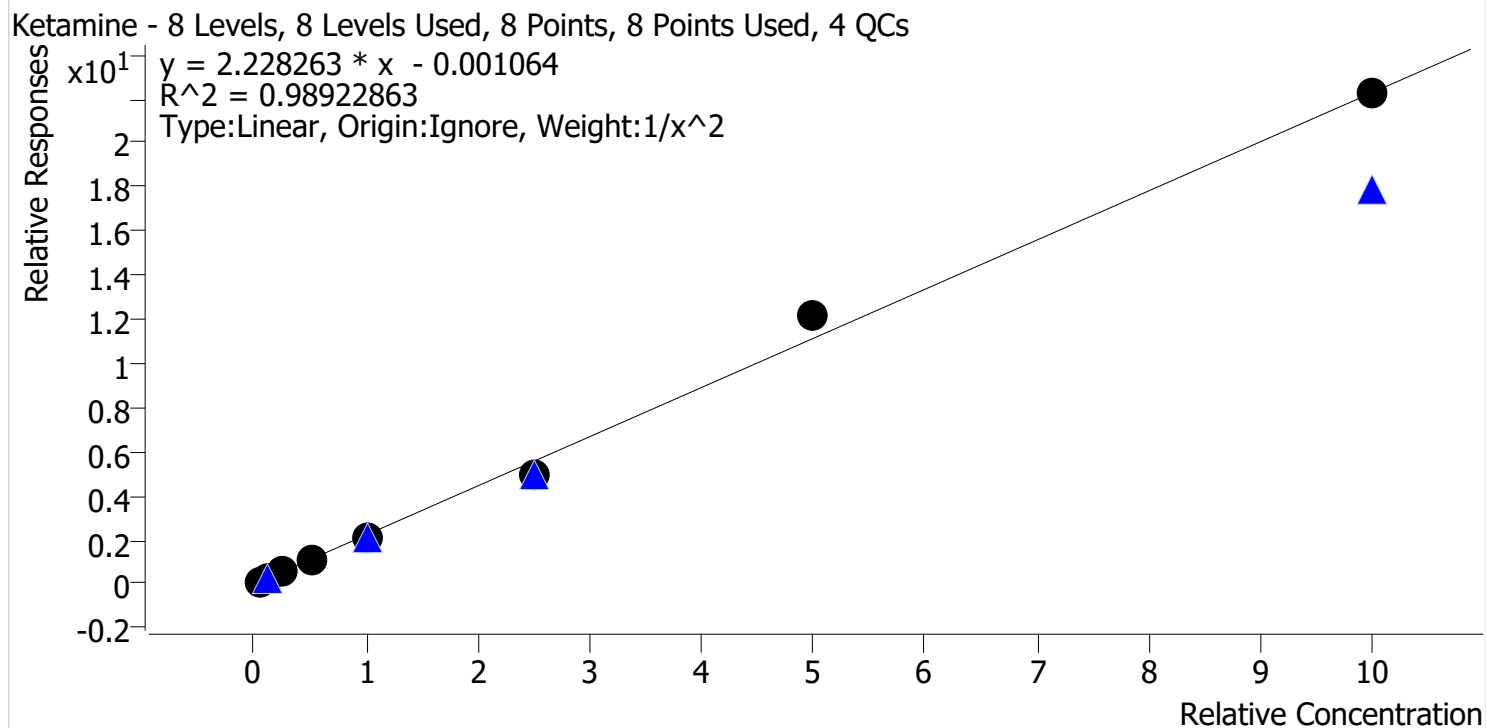
*BW*



# Compound Calibration Report

**Batch results**            D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**        5/29/2019 12:43 PM  
**Analyst Name**            ISP\datastor  
**Analyte**                    Ketamine

**Internal Standard**        Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	29.4	117.4
cal 4	4	✓	50.0	46.4	92.7
cal 5	5	✓	100.0	93.9	93.9
cal 6	6	✓	250.0	224.8	89.9
cal 7	7	✓	500.0	543.0	108.6
cal 8	8	✓	1000.0	998.0	99.8

*BW*



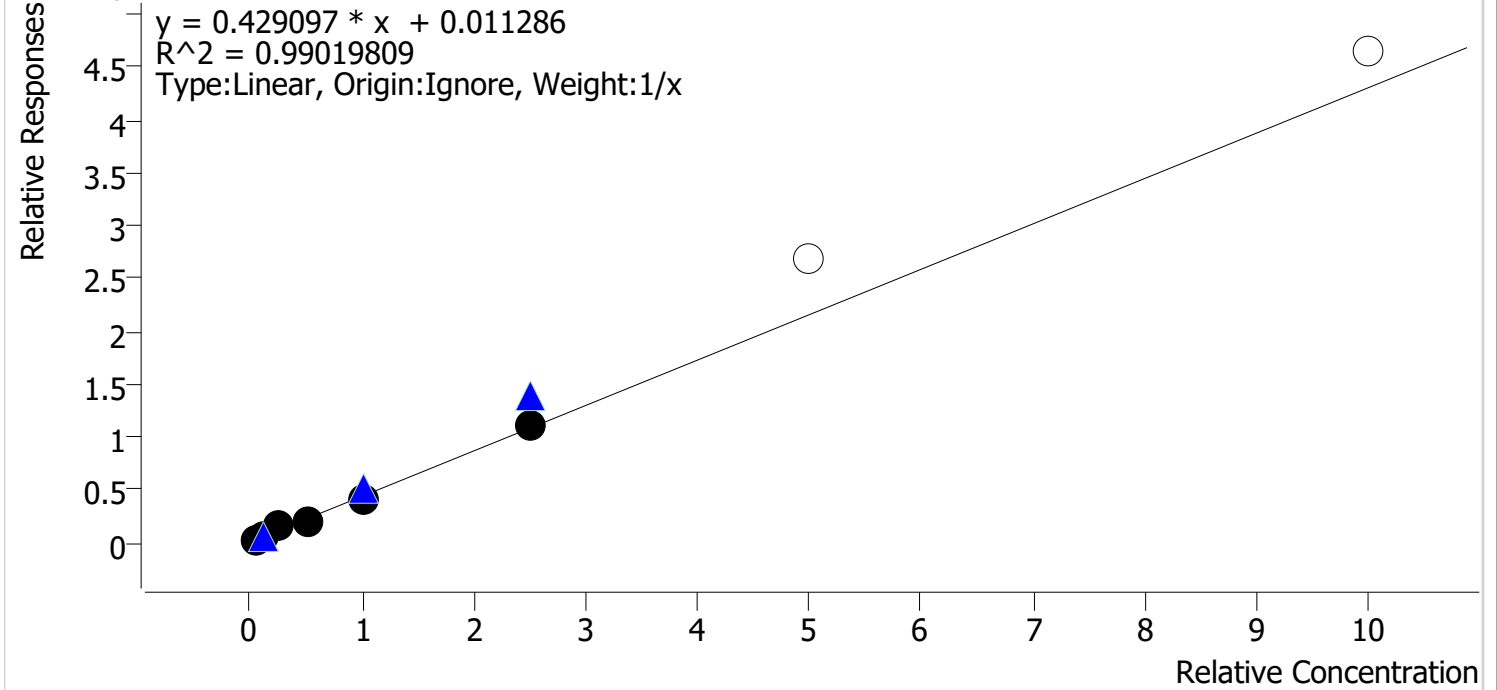


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine

**Internal Standard** Dextromethorphan-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.2	84.0
cal 2	2	✓	10.0	10.1	101.1
cal 3	3	✓	25.0	32.5	130.1
cal 4	4	✓	50.0	43.7	87.5
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✓	250.0	253.6	101.4
cal 7	7	✗	500.0	620.3	124.1
cal 8	8	✗	1000.0	1079.7	108.0

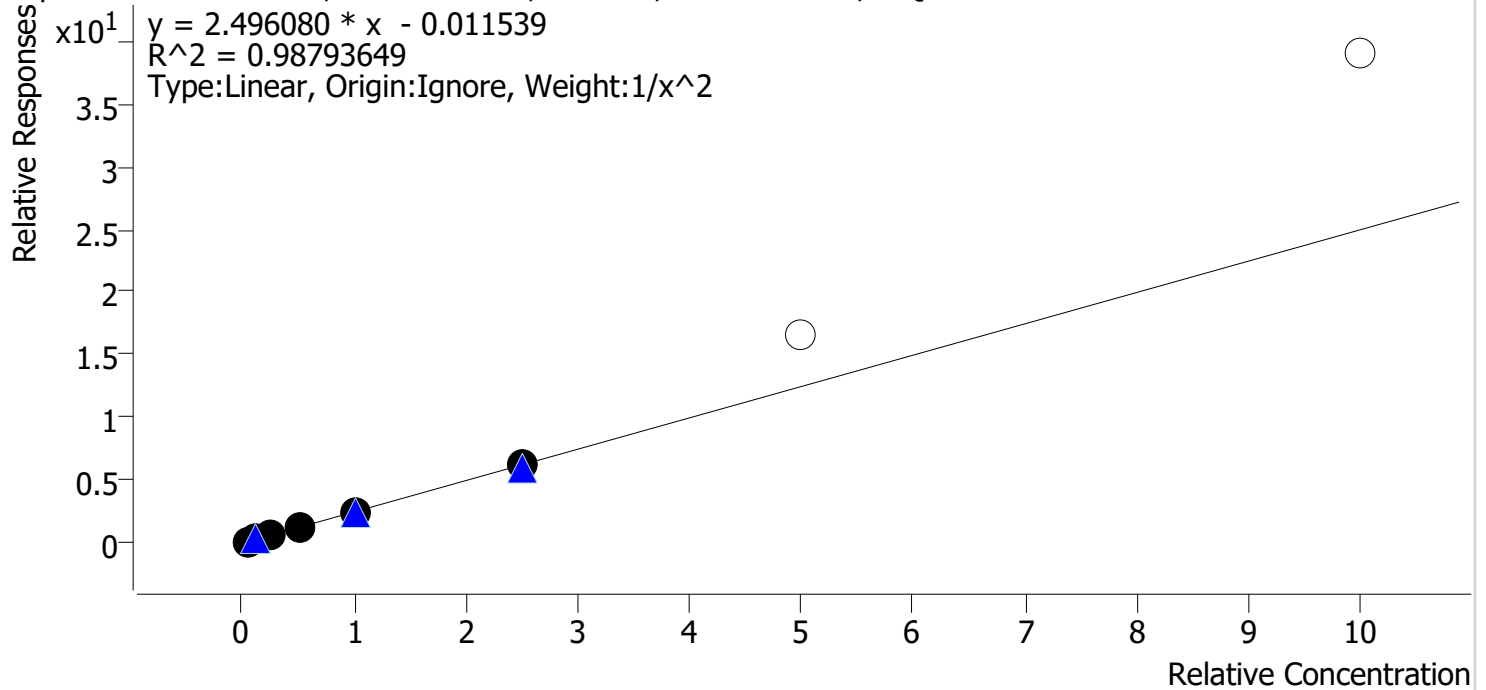
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate

**Internal Standard** Meprobamate-D7

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.6
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	25.0	29.2	117.0
cal 4	4	✓	50.0	45.4	90.8
cal 5	5	✓	100.0	95.0	95.0
cal 6	6	✓	250.0	248.2	99.3
cal 7	7	✗	500.0	666.9	133.4
cal 8	8	✗	1000.0	1562.2	156.2

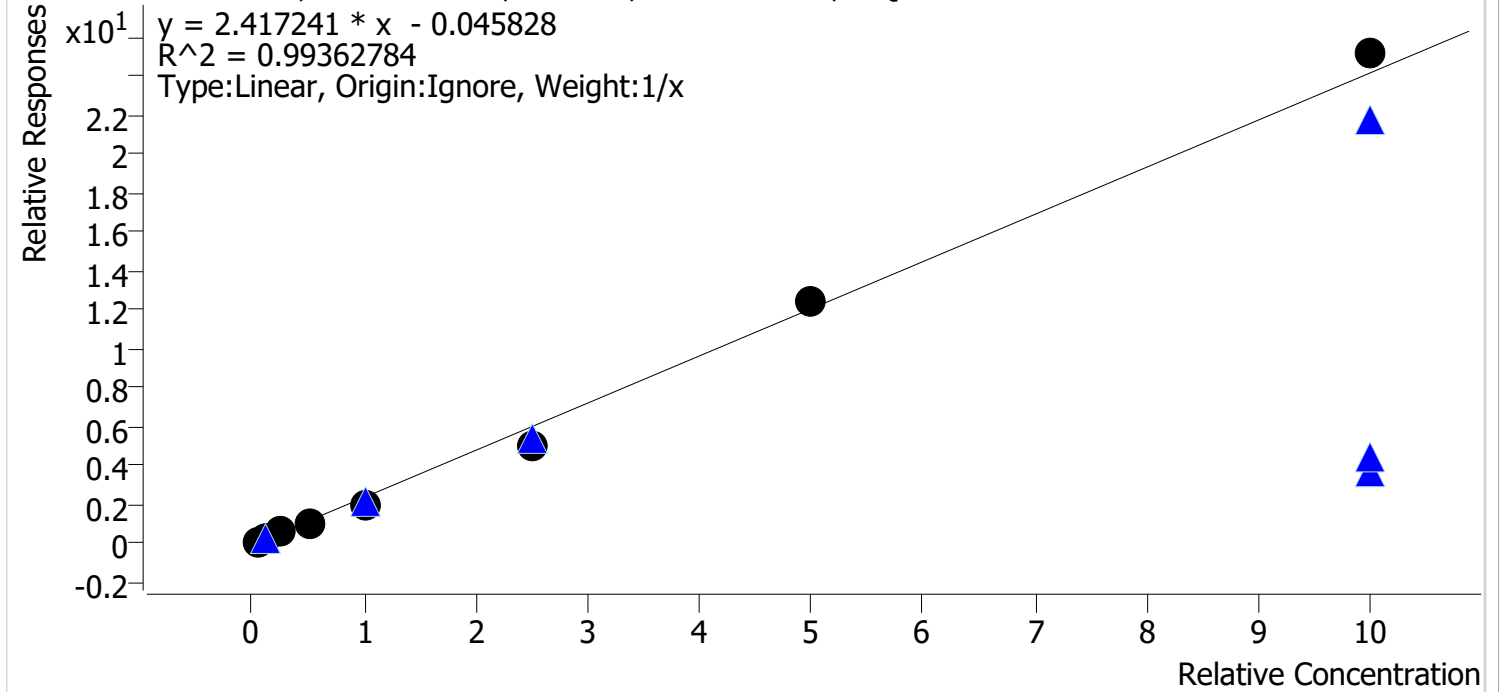
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone

**Internal Standard** Methadone-D9

Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



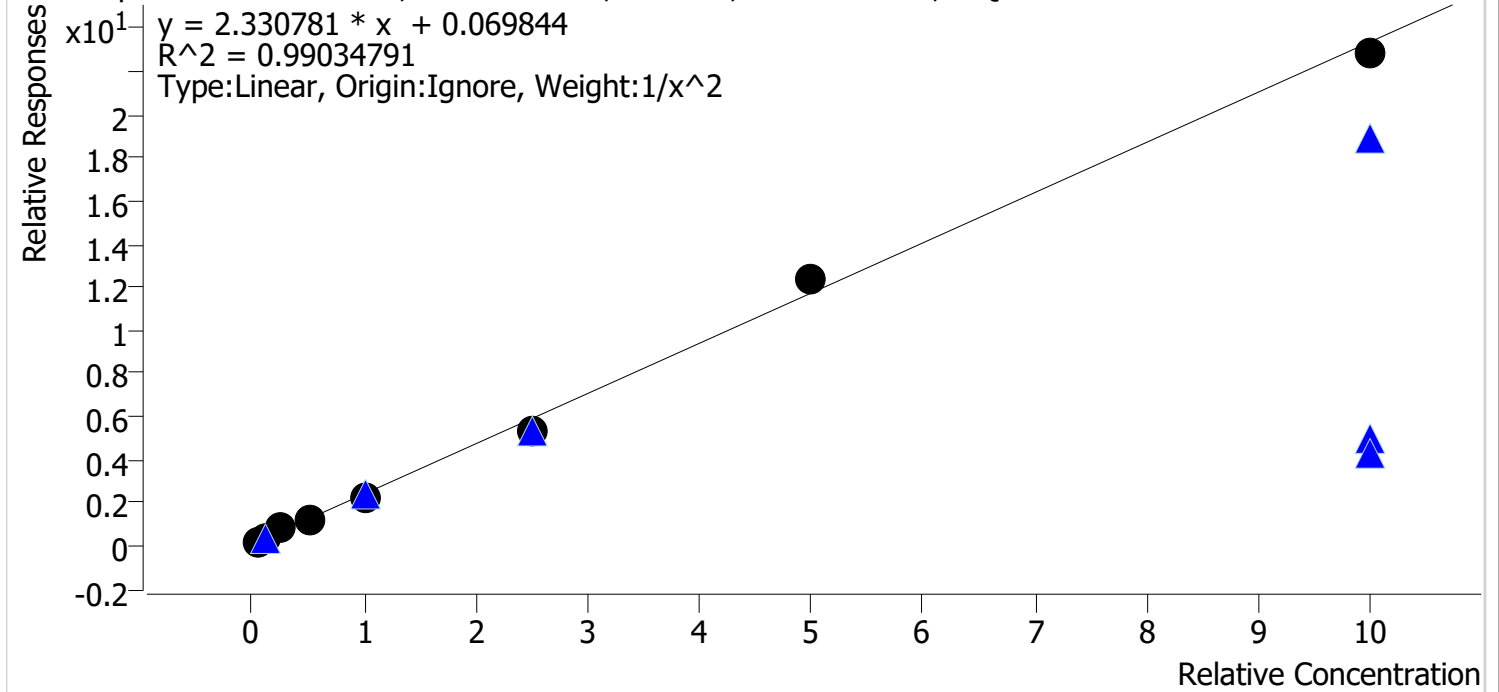
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.0	120.7
cal 2	2	✓	10.0	10.4	104.1
cal 3	3	✓	25.0	27.7	110.6
cal 4	4	✓	50.0	43.9	87.8
cal 5	5	✓	100.0	85.1	85.1
cal 6	6	✓	250.0	211.9	84.8
cal 7	7	✓	500.0	514.1	102.8
cal 8	8	✓	1000.0	1040.9	104.1

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Methamphetamine	<b>Internal Standard</b>	Methamphetamine-D11

Methamphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.4
cal 2	2	✓	10.0	9.9	99.1
cal 3	3	✓	25.0	29.6	118.4
cal 4	4	✓	50.0	49.0	97.9
cal 5	5	✓	100.0	95.3	95.3
cal 6	6	✓	250.0	223.6	89.4
cal 7	7	✓	500.0	524.1	104.8
cal 8	8	✓	1000.0	976.7	97.7

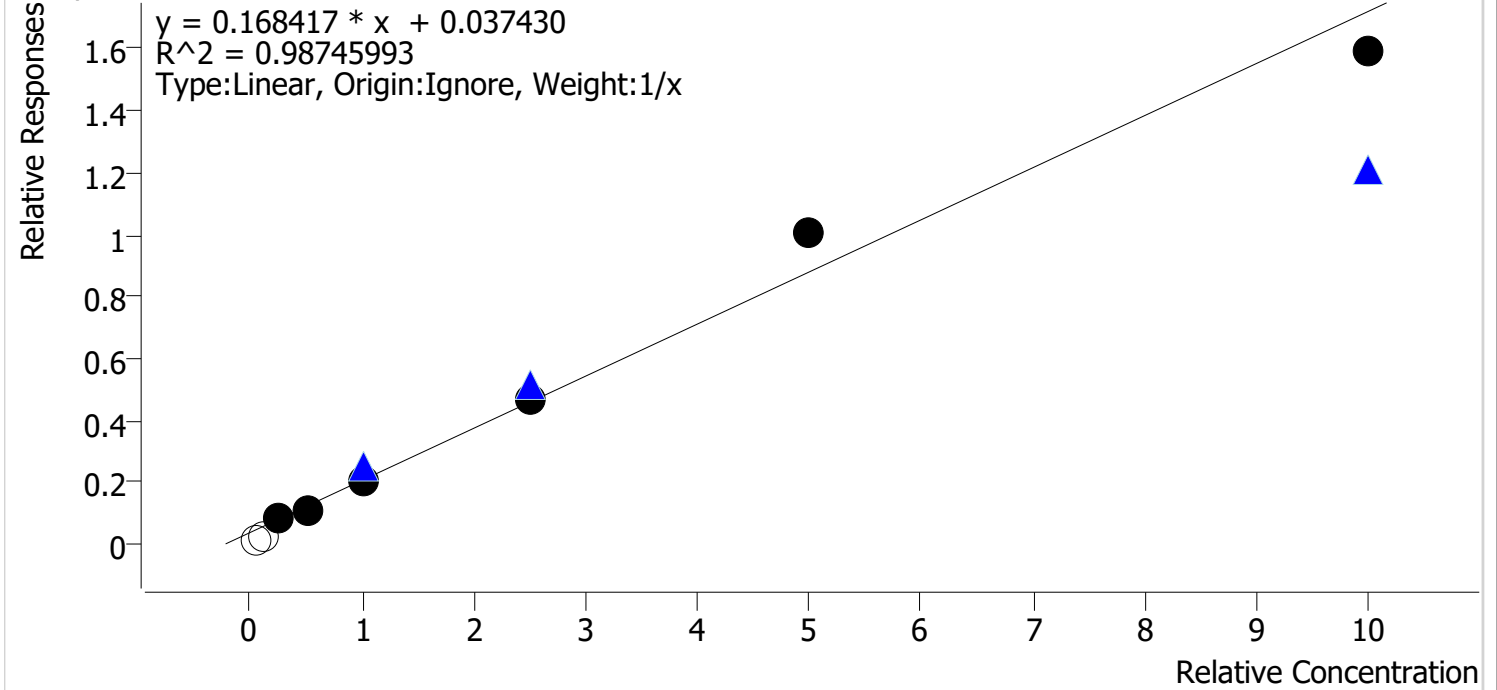
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Metoprolol

**Internal Standard**      Diphenhydramine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	0.0	0.0
cal 2	2	x	10.0	0.0	0.0
cal 3	3	✓	25.0	25.4	101.5
cal 4	4	✓	50.0	44.2	88.4
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	255.7	102.3
cal 7	7	✓	500.0	576.7	115.3
cal 8	8	✓	1000.0	922.9	92.3

*BW*

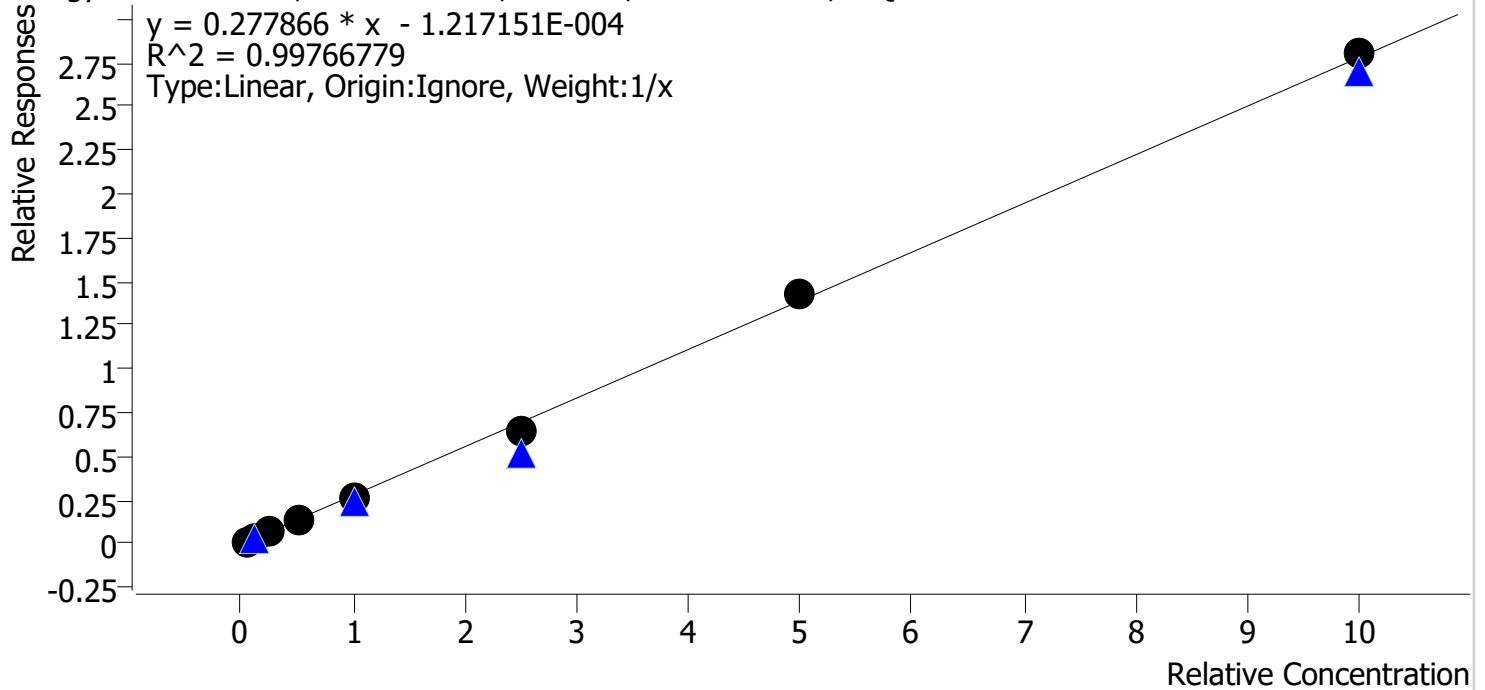


# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Mitragynine

**Internal Standard**      Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.6	91.9
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	29.8	119.0
cal 4	4	✓	50.0	50.3	100.6
cal 5	5	✓	100.0	91.7	91.7
cal 6	6	✓	250.0	228.4	91.4
cal 7	7	✓	500.0	517.0	103.4
cal 8	8	✓	1000.0	1008.1	100.8

*BW*

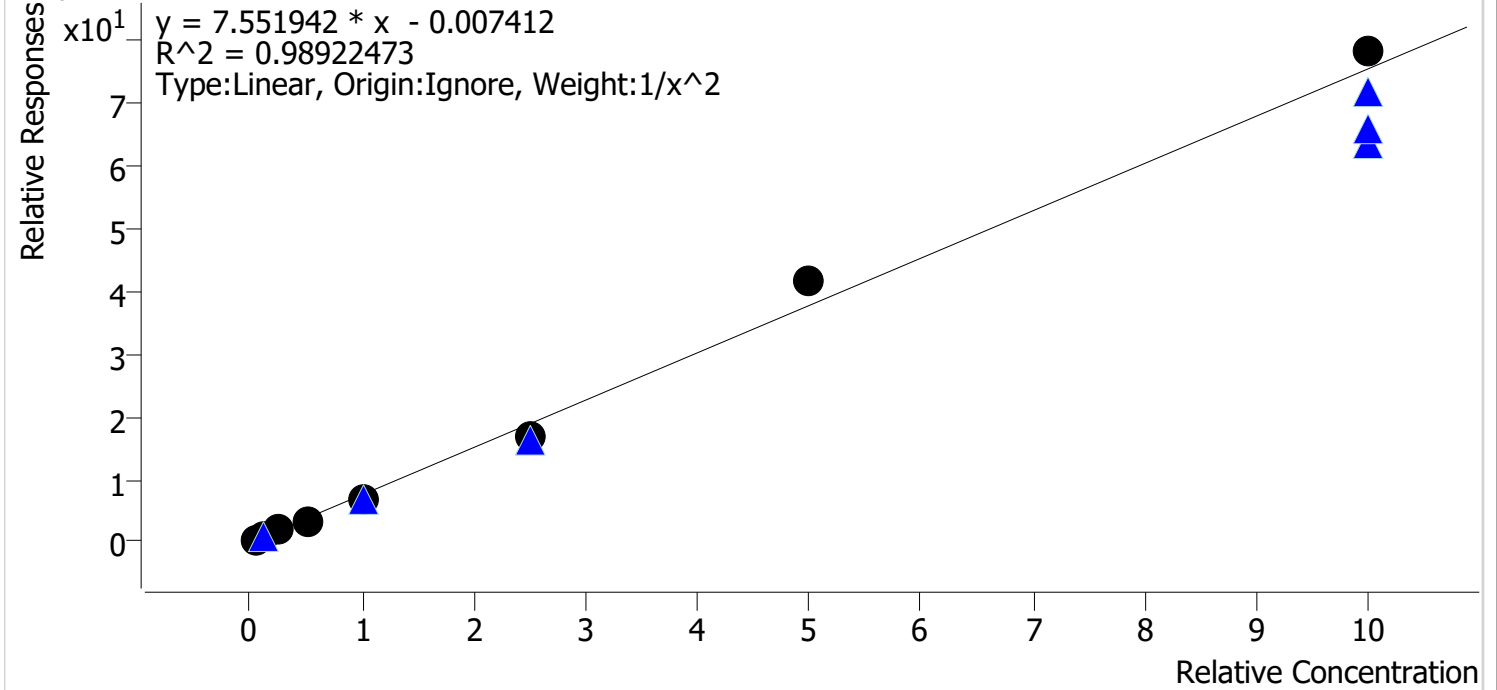


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine

**Internal Standard** Morphine-D6

Morphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 6 QCs



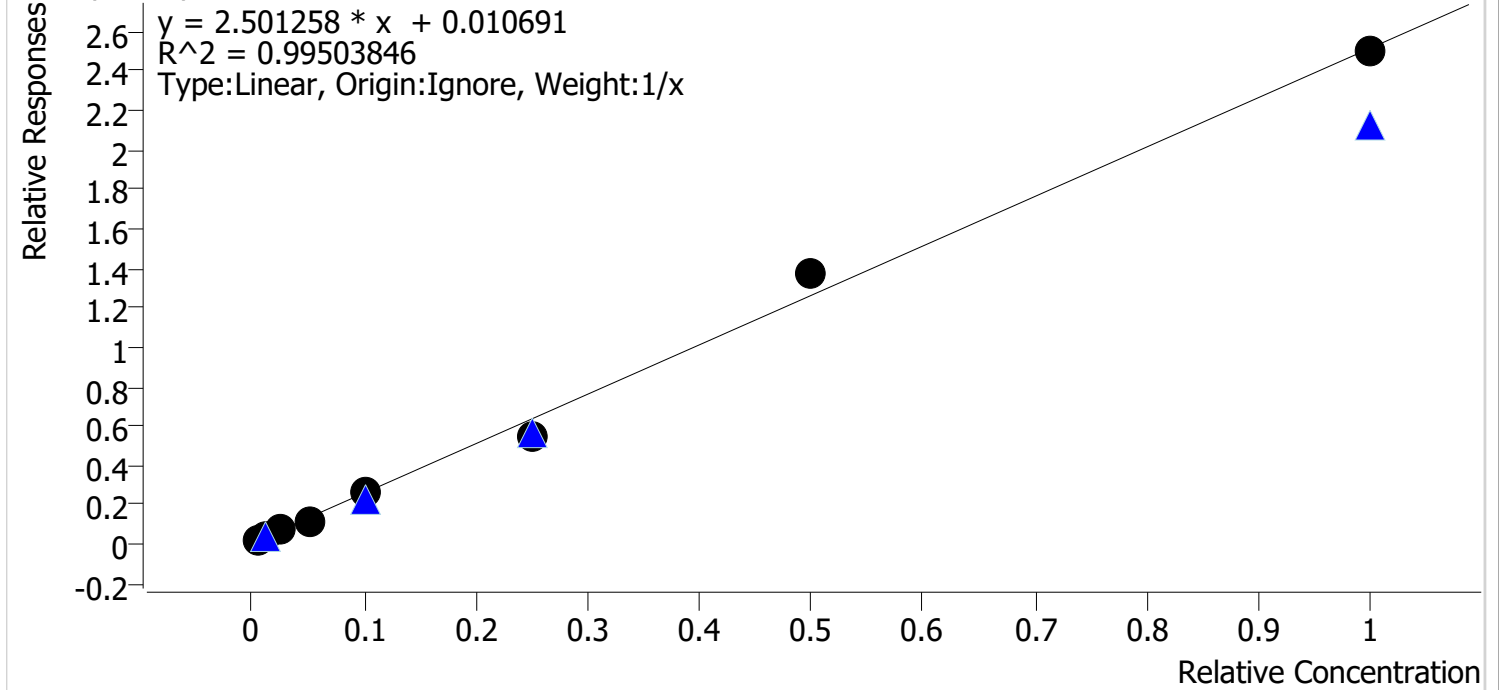
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.1
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	28.8	115.4
cal 4	4	✓	50.0	45.8	91.7
cal 5	5	✓	100.0	92.1	92.1
cal 6	6	✓	250.0	225.6	90.2
cal 7	7	✓	500.0	548.1	109.6
cal 8	8	✓	1000.0	1036.4	103.6

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Norbuprenorphine	<b>Internal Standard</b>	Norbuprenorphine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.6	111.3
cal 2	2	✓	1.0	0.9	89.9
cal 3	3	✓	2.5	2.8	114.0
cal 4	4	✓	5.0	4.5	90.1
cal 5	5	✓	10.0	10.0	100.2
cal 6	6	✓	25.0	21.7	87.0
cal 7	7	✓	50.0	54.1	108.2
cal 8	8	✓	100.0	99.3	99.3

*BW*

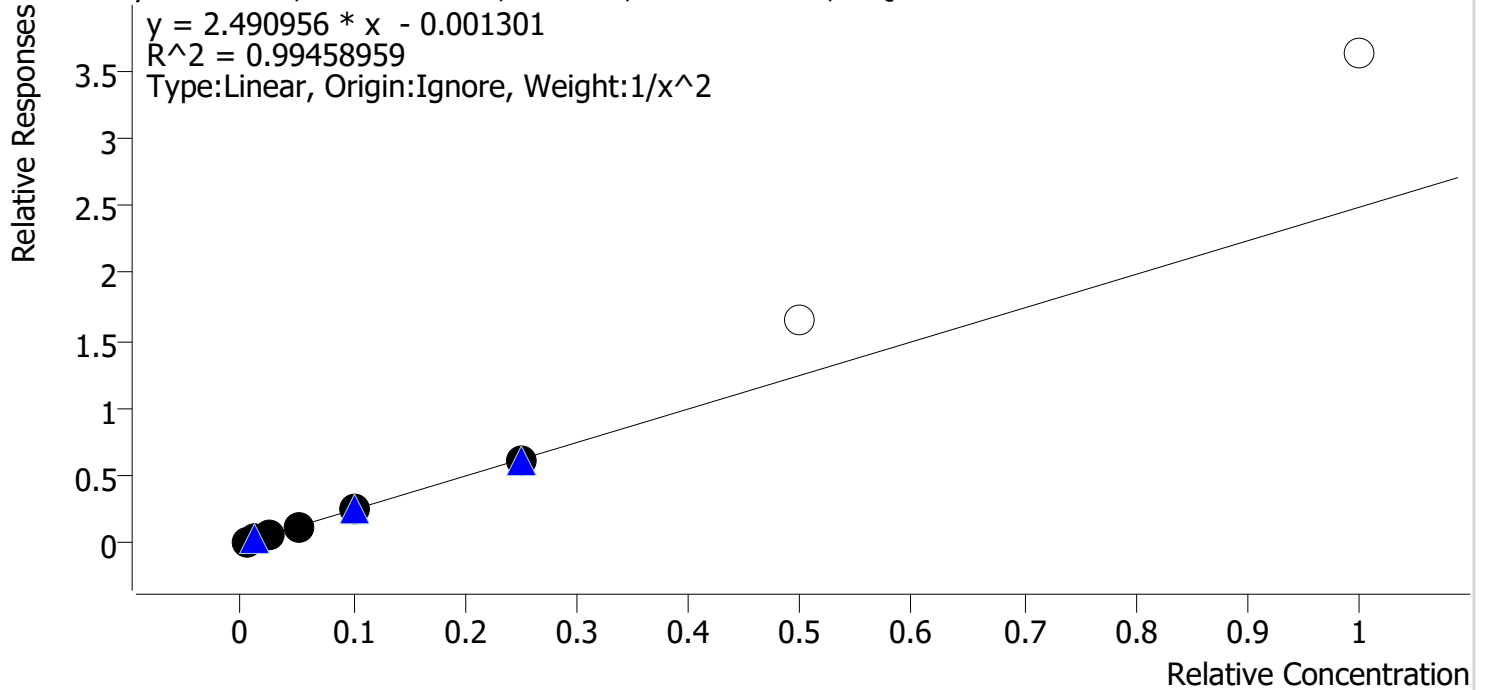


# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Norfentanyl

**Internal Standard**      Norfentanyl-D5

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



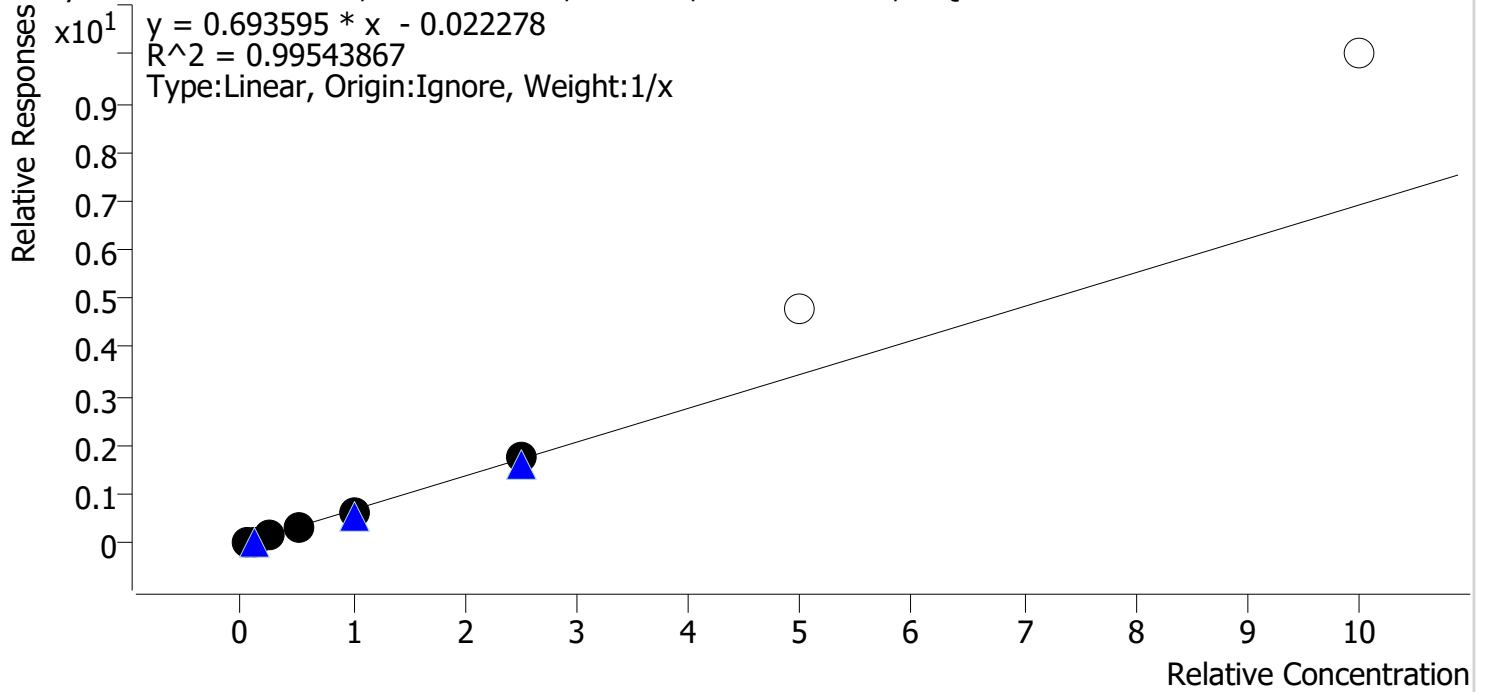
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	98.2
cal 2	2	✓	1.0	1.0	100.5
cal 3	3	✓	2.5	2.8	111.4
cal 4	4	✓	5.0	4.7	93.9
cal 5	5	✓	10.0	9.7	97.2
cal 6	6	✓	25.0	24.7	98.8
cal 7	7	✗	50.0	66.9	133.8
cal 8	8	✗	100.0	145.7	145.7

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin		
<b>Last Cal. Update</b>	5/29/2019 12:43 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Norhydrocodone	<b>Internal Standard</b>	Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.1	121.1
cal 2	2	✓	10.0	9.3	92.6
cal 3	3	✓	25.0	24.6	98.5
cal 4	4	✓	50.0	43.5	87.0
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	259.5	103.8
cal 7	7	✗	500.0	688.9	137.8
cal 8	8	✗	1000.0	1446.8	144.7

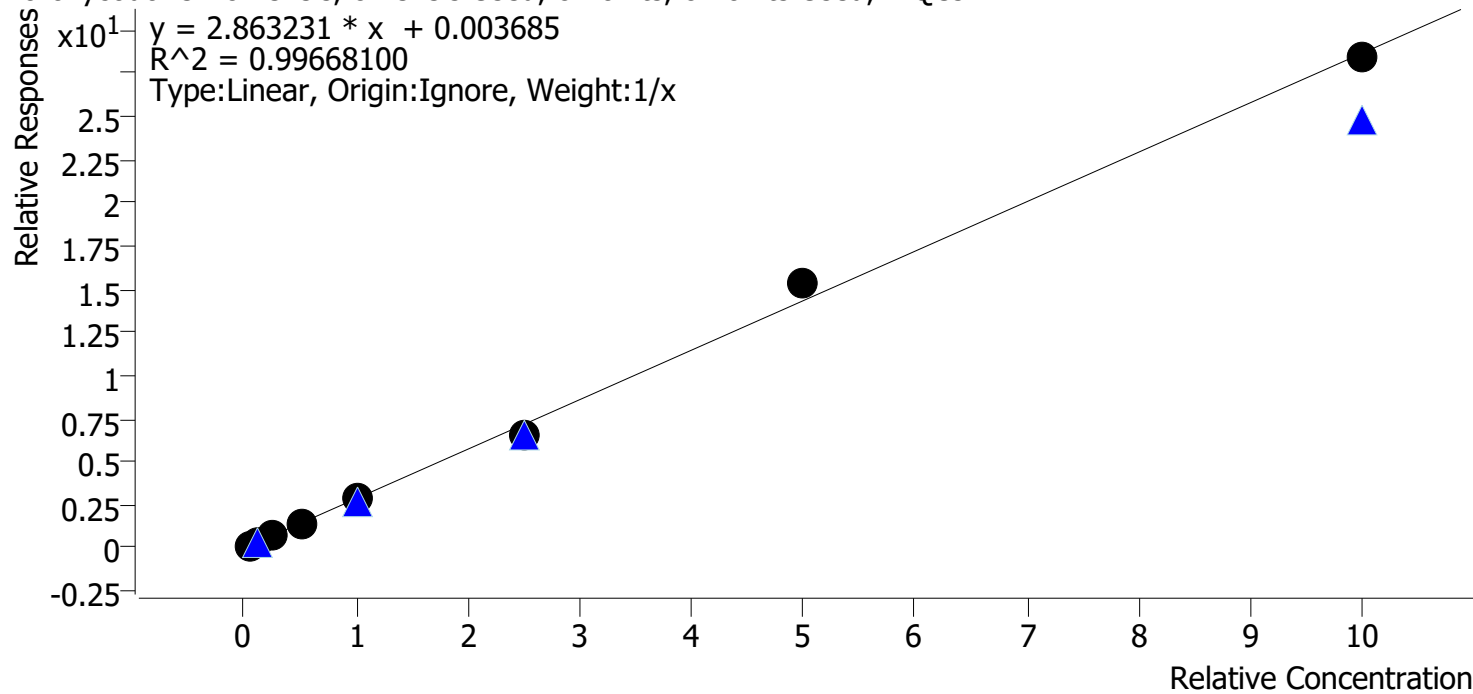
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Noroxycodone

**Internal Standard**      Noroxycodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.3
cal 2	2	✓	10.0	9.8	98.0
cal 3	3	✓	25.0	29.2	116.9
cal 4	4	✓	50.0	45.9	91.8
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	225.2	90.1
cal 7	7	✓	500.0	533.8	106.8
cal 8	8	✓	1000.0	991.1	99.1

*BW*





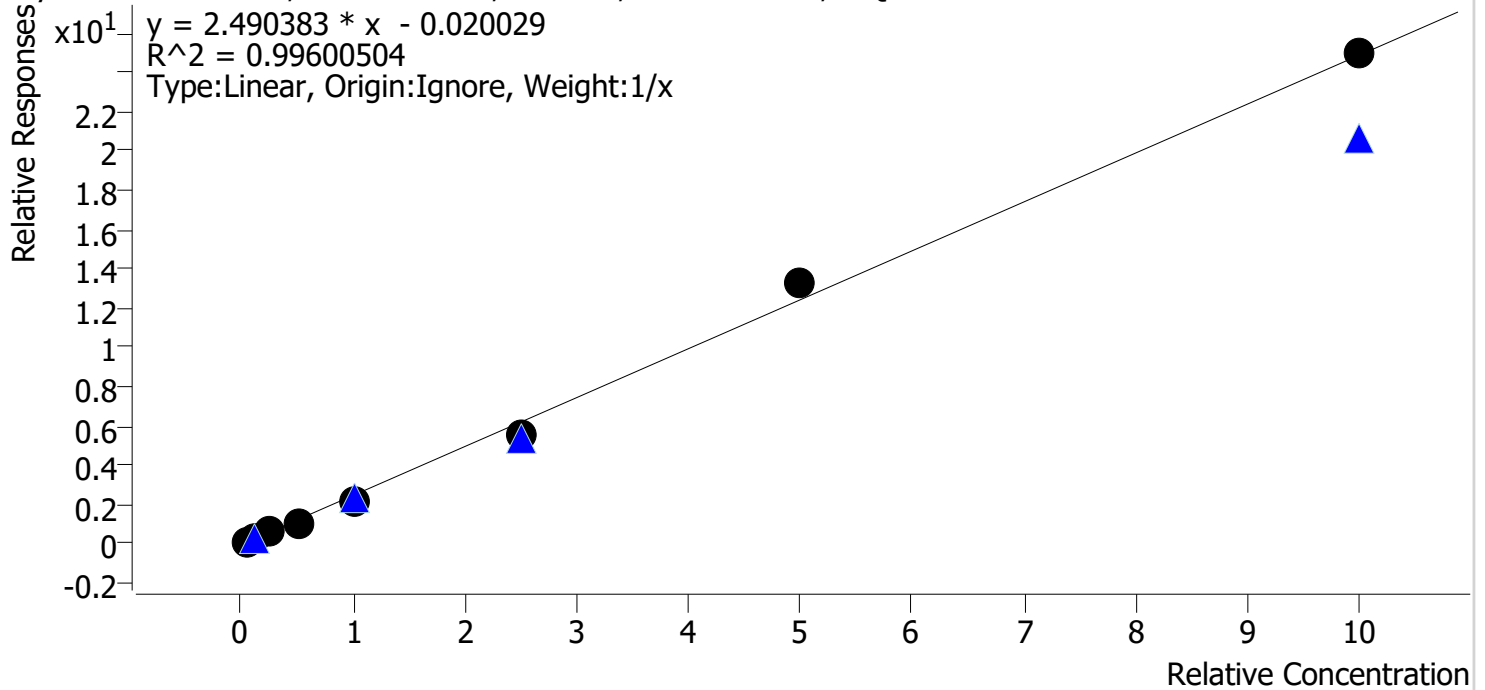


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 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
cal 1	1	✓	5.0	5.3	105.7
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	28.5	113.9
cal 4	4	✓	50.0	45.3	90.6
cal 5	5	✓	100.0	91.0	91.0
cal 6	6	✓	250.0	222.5	89.0
cal 7	7	✓	500.0	533.9	106.8
cal 8	8	✓	1000.0	1003.3	100.3

*BW*

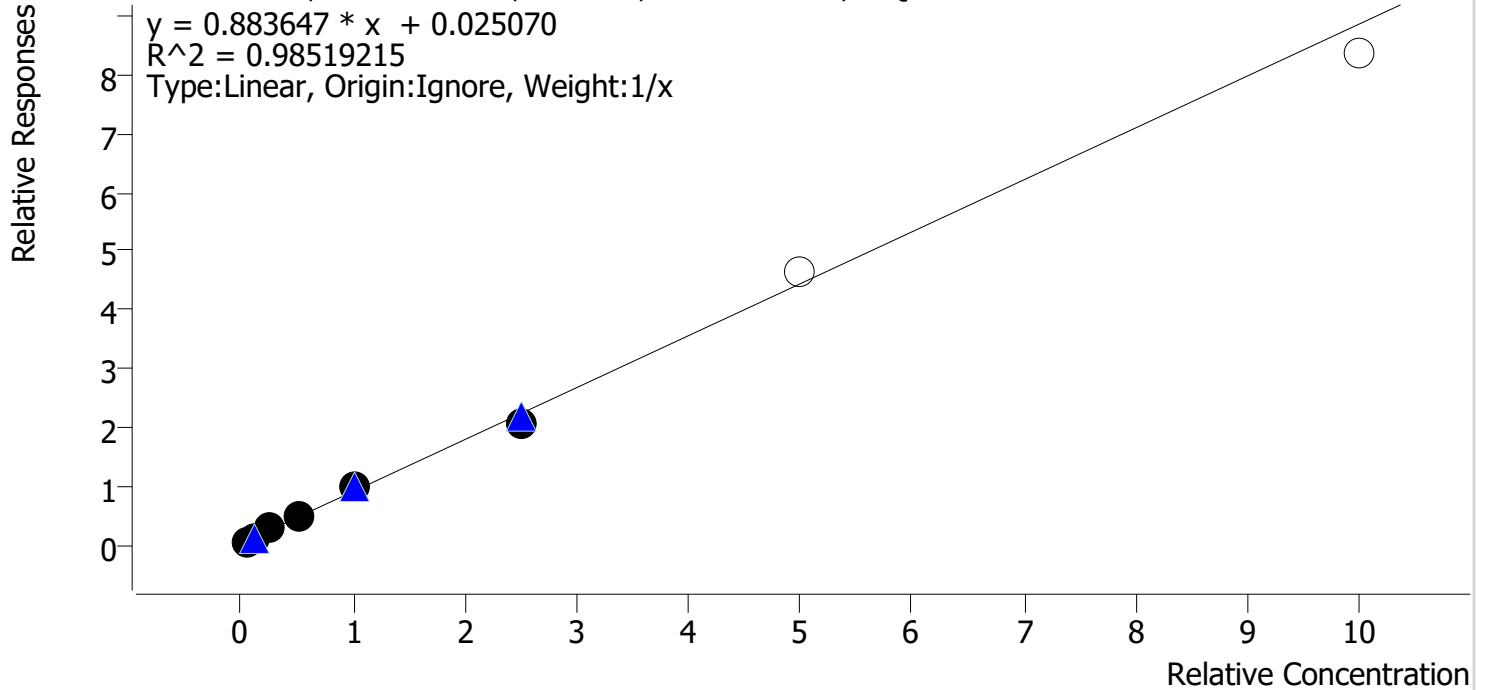


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine

**Internal Standard** Phentermine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	3.2	64.7
cal 2	2	✓	10.0	9.5	94.8
cal 3	3	✓	25.0	33.3	133.0
cal 4	4	✓	50.0	53.7	107.3
cal 5	5	✓	100.0	106.7	106.7
cal 6	6	✓	250.0	233.6	93.5
cal 7	7	✗	500.0	523.6	104.7
cal 8	8	✗	1000.0	943.1	94.3

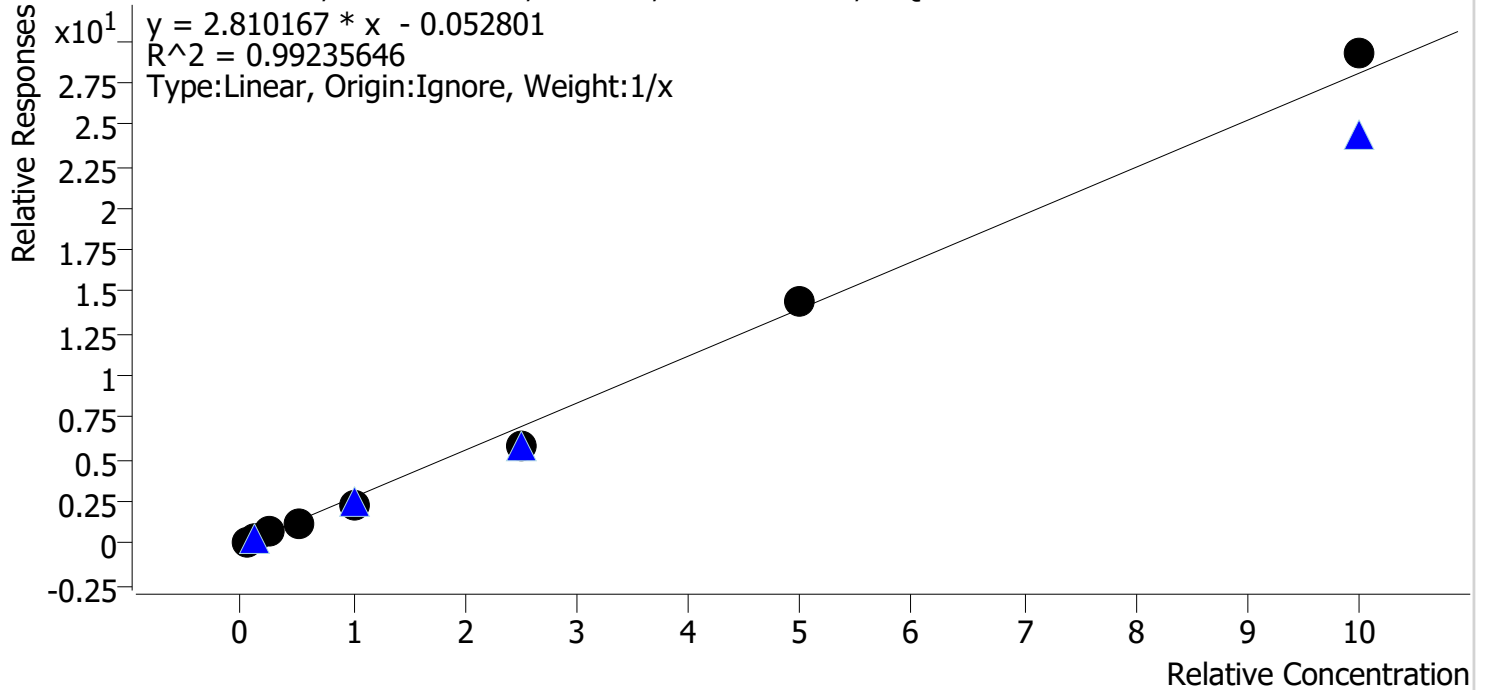
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine

**Internal Standard** Promethazine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.0	120.9
cal 2	2	✓	10.0	10.6	105.6
cal 3	3	✓	25.0	27.6	110.4
cal 4	4	✓	50.0	43.2	86.4
cal 5	5	✓	100.0	86.7	86.7
cal 6	6	✓	250.0	205.4	82.1
cal 7	7	✓	500.0	519.0	103.8
cal 8	8	✓	1000.0	1041.5	104.2

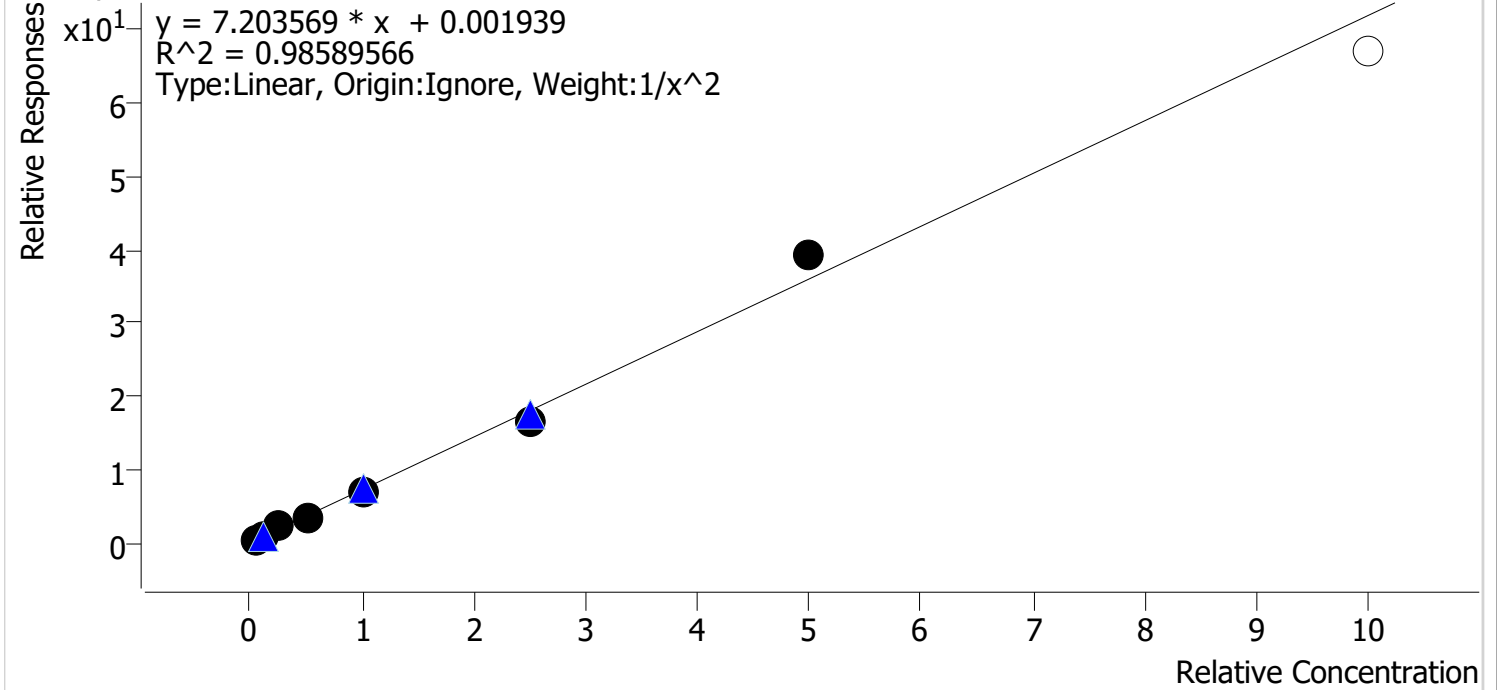
*BW*

# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Quetiapine

**Internal Standard**      Quetiapine-D8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.9
cal 2	2	✓	10.0	9.7	97.5
cal 3	3	✓	25.0	29.5	117.9
cal 4	4	✓	50.0	46.3	92.5
cal 5	5	✓	100.0	93.1	93.1
cal 6	6	✓	250.0	226.3	90.5
cal 7	7	✓	500.0	547.8	109.6
cal 8	8	x	1000.0	931.4	93.1

*BW*

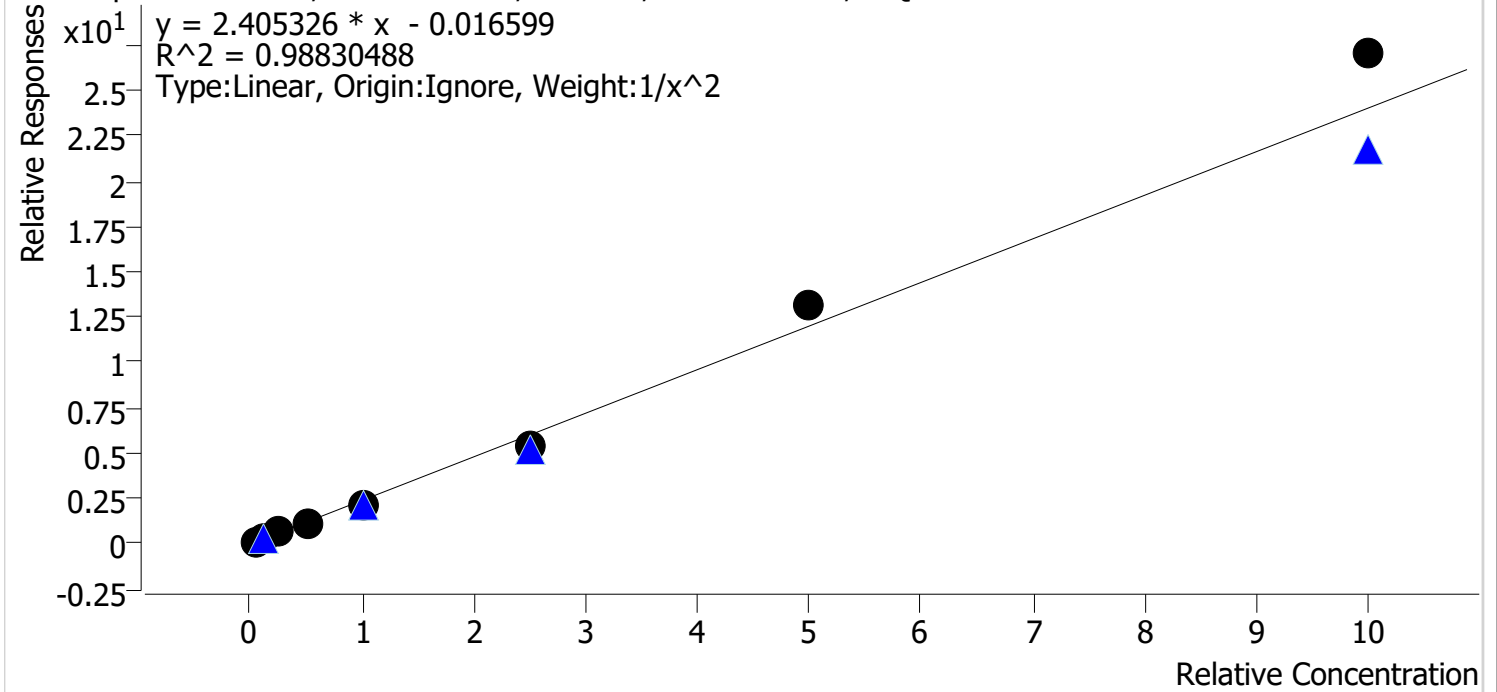


# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Temazepam

**Internal Standard**      Temazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.5
cal 2	2	✓	10.0	9.6	96.4
cal 3	3	✓	25.0	27.2	108.6
cal 4	4	✓	50.0	45.0	90.0
cal 5	5	✓	100.0	91.9	91.9
cal 6	6	✓	250.0	222.9	89.2
cal 7	7	✓	500.0	549.0	109.8
cal 8	8	✓	1000.0	1125.0	112.5

*BW*



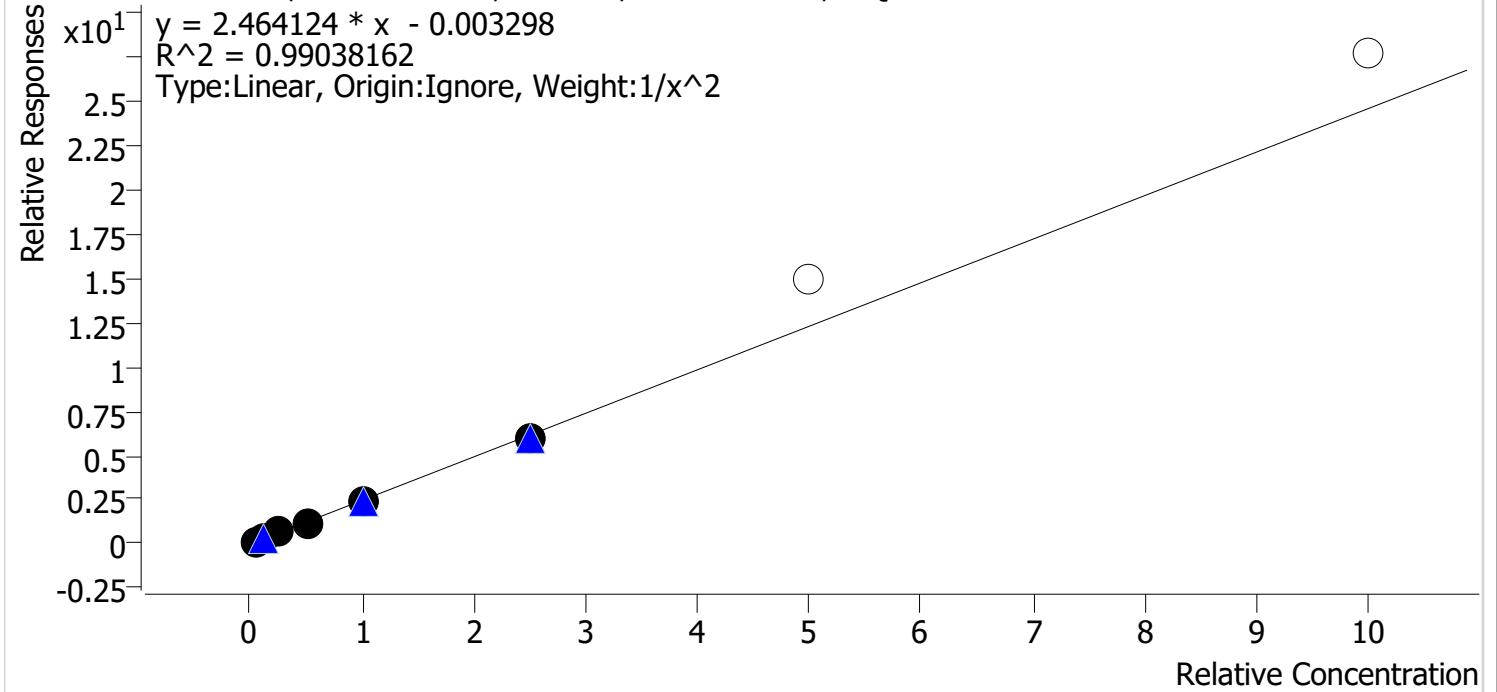


# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update**    5/29/2019 12:43 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Trazodone

**Internal Standard**      Trazodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.8
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	29.0	115.9
cal 4	4	✓	50.0	47.0	93.9
cal 5	5	✓	100.0	97.3	97.3
cal 6	6	✓	250.0	238.4	95.3
cal 7	7	✗	500.0	605.0	121.0
cal 8	8	✗	1000.0	1126.4	112.6

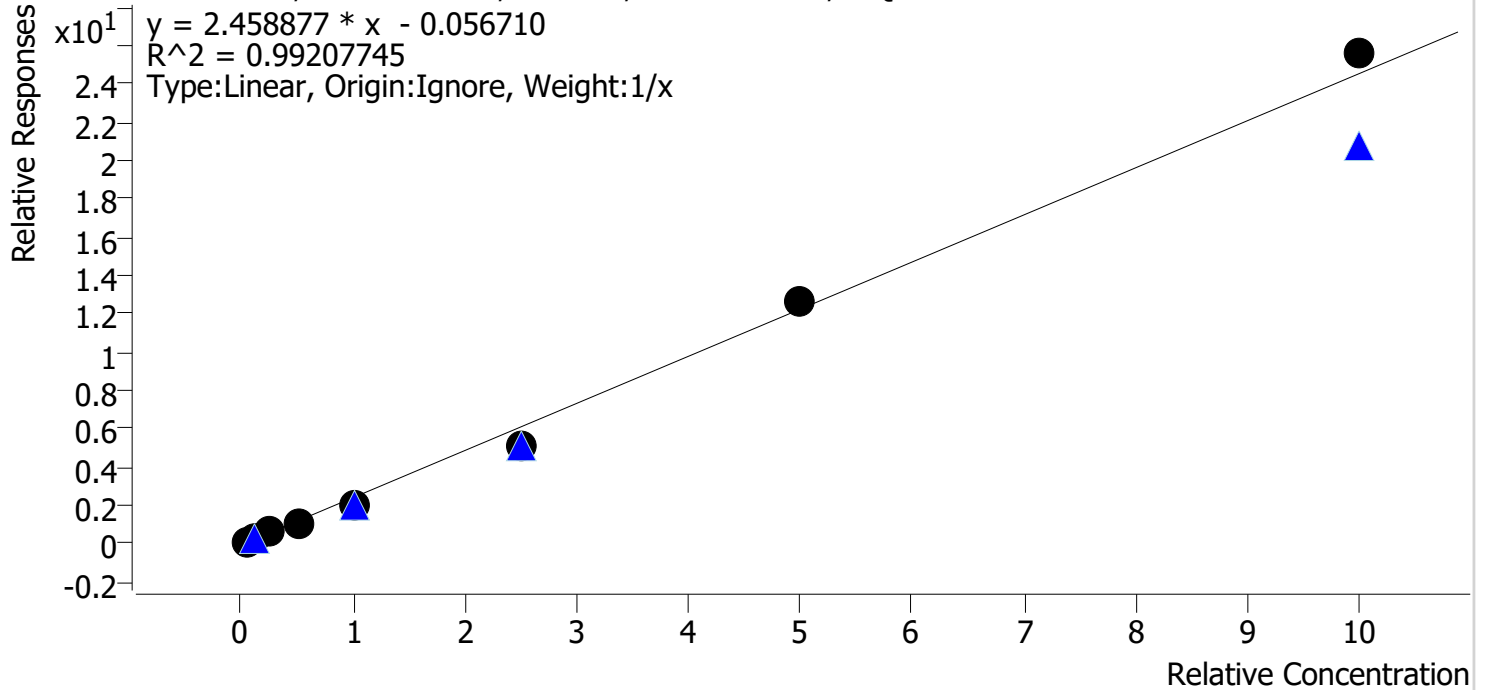
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine

**Internal Standard** Venlafaxine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.3	126.2
cal 2	2	✓	10.0	10.6	106.0
cal 3	3	✓	25.0	27.0	107.9
cal 4	4	✓	50.0	42.3	84.6
cal 5	5	✓	100.0	84.2	84.2
cal 6	6	✓	250.0	207.2	82.9
cal 7	7	✓	500.0	519.9	104.0
cal 8	8	✓	1000.0	1042.5	104.2

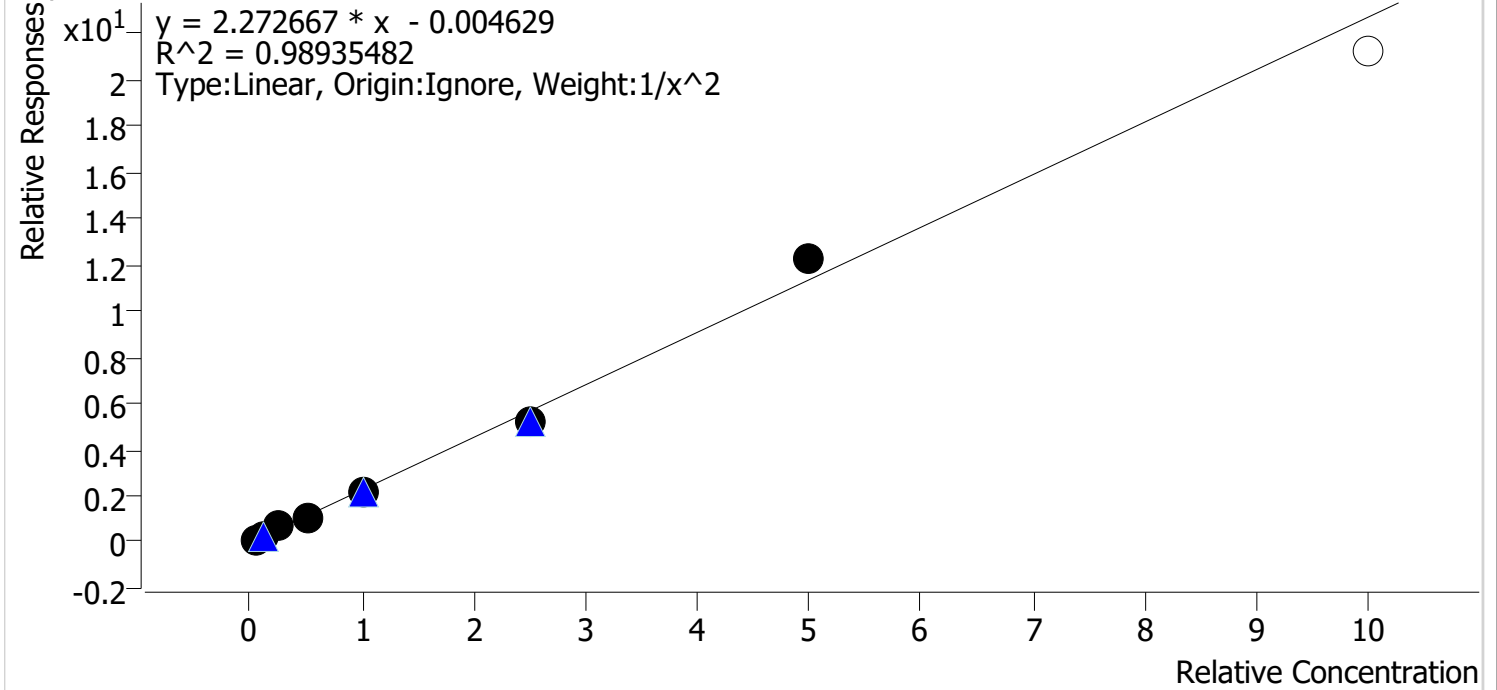
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Last Cal. Update** 5/29/2019 12:43 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem

**Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.2
cal 2	2	✓	10.0	9.9	99.2
cal 3	3	✓	25.0	29.0	115.8
cal 4	4	✓	50.0	47.0	94.1
cal 5	5	✓	100.0	94.5	94.5
cal 6	6	✓	250.0	226.8	90.7
cal 7	7	✓	500.0	537.3	107.5
cal 8	8	x	1000.0	934.4	93.4

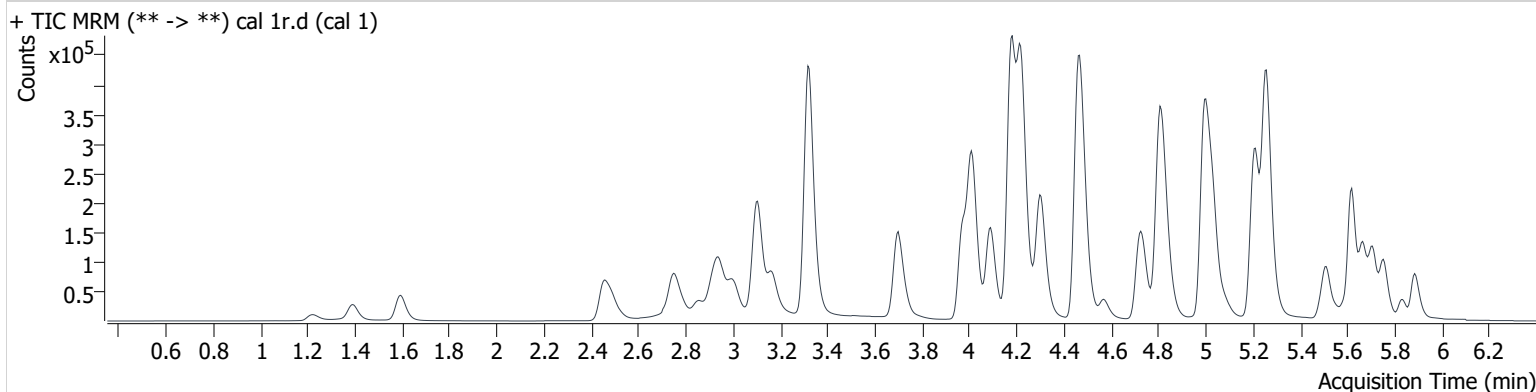
*BW*

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1r.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-A1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 1:58:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	900	1799.89	75.8	1406.01	57054	0.4596 ng/ml
7-aminoclonazepam	4.200	12381	1112.01	87.2	1311.89	105772	4.8429 ng/ml
a-hydroxyalprazolam	5.642	1540	192.47	64.4	1120.68	15689	5.0149 ng/ml
alpha-PVP	4.311	53304	4540.13	53.1	1657.04	496284	6.2177 ng/ml
Alprazolam	5.716	23157	2124.47	108.1	∞	156353	6.2428 ng/ml
Amphetamine	3.000	77541	789.09	54.7	755.54	197129	4.6078 ng/ml
Benzoylcegonine	3.814	1305	∞	8.2	20.71	8177	5.8214 ng/ml
Buprenorphine	5.729	462	5.26 <b>Low</b>	19.9	143.84	38043	0.5011 ng/ml
Bupropion	4.743	56155	124370.34	58.9	732.20	405377	4.9886 ng/ml
Carisoprodol	5.672	20468	14537.79	60.3	265.99	211841	4.9234 ng/ml
Citalopram	5.204	26438	958.57	48.3	3838.86	238555	5.7021 ng/ml
Clonazepam	5.561	4580	119.89	34.5	1653.23	15739	4.8351 ng/ml
Cocaine	4.220	53593	∞	44.1	4791.45	954440	6.1163 ng/ml
Codeine	2.527	6639	∞	101.9	3567.25	60925	5.1336 ng/ml
Cyclobenzaprine	5.589	6681	26.32	11.5	45.55	60812	5.8464 ng/ml
Dextromethorphan	5.223	17001	5542.99	74.8	∞	168418	5.0295 ng/ml
Dextrorphan	4.090	16767	∞	210.8	13753.76	397494	6.0882 ng/ml
Diazepam	5.891	16892	1870.89	85.5	18452.74	160765	5.6378 ng/ml
Dihydrocodeine	2.490	17780	6962.69	66.9	1190.37	201871	4.6832 ng/ml
Diphenhydramine	5.259	92907	969.13	34.0	5305.79	956868	6.3424 ng/ml
Doxylamine	4.481	140331	4107.42	98.2	14148.78	1216558	4.9037 ng/ml
EDDP	5.212	15023	1048.11	238.2	3109.09	362034	5.0810 ng/ml
Fentanyl	5.041	1747	∞	79.6	1876.90	183356	0.4828 ng/ml
Fluoxetine	5.679	3516	93.86	10.0	254.13	27799	5.4846 ng/ml
Hydrocodone	2.972	16628	497.44	40.6	261.25	197772	5.1265 ng/ml
Hydromorphone	1.603	13449	776.61	75.9	1357.81	103152	4.9141 ng/ml
Ketamine	3.990	45381	3032.58	37.1	307.37	420967	4.8857 ng/ml
Lamotrigine	4.268	4938	1174.42	88.9	1806.82	168418	4.2021 ng/ml
Lorazepam	5.694	2214	70.52	62.7	13.29	156353	4.9650 ng/ml
Meprobamate	4.861	7756	862.98	30.2	50.05	70342	4.8798 ng/ml
Methadone	5.618	45366	747.87	45.1	1557.62	453401	6.0352 ng/ml
Methamphetamine	3.167	100587	170.06	41.5	582.08	548576	4.8703 ng/ml
Mirtazapine	4.569	57703	67256.26	45.6	3169.20	453401	4.4385 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.178	5734	∞	37.5	3357.65	453401	4.5951 ng/ml
Morphine	1.231	3509	560.49	23.1	1765.38	9564	4.9557 ng/ml
Norbuprenorphine	4.963	130	47.49	84.2	137.57	5279	0.5566 ng/ml
Nordiazepam	5.841	10265	∞	59.3	∞	65233	4.9105 ng/ml
Norfentanyl	4.035	7696	767.04	40.9	129.62	703845	0.4912 ng/ml
Norhydrocodone	3.029	951	54.21	43.5	24.23	48255	6.0537 ng/ml
Noroxycodone	2.875	11015	177.64	41.6	125.87	77052	4.8639 ng/ml
O-desmethyl-tramadol	3.329	117418	13286.97	6.6	478.23	1116357	6.1832 ng/ml
Oxazepam	5.701	3312	∞	75.8	16.97	28185	5.8613 ng/ml
Oxycodone	2.783	30205	679.37	28.6	995.69	270687	5.2849 ng/ml
Oxymorphone	1.395	10838	∞	44.4	∞	83312	4.9033 ng/ml
Phentermine	3.737	23877	∞	4.9	28.89	445148	3.2329 ng/ml
Promethazine	5.516	12403	17989.38	31.2	31.21	105982	6.0433 ng/ml
Quetiapine	5.508	33412	∞	58.4	∞	93325	4.9431 ng/ml
Sertraline	5.741	901	14.76	130.5 <b>High</b>	∞	9588	6.8603 ng/ml
Temazepam	5.762	19240	673.72	31.8	41.35	182370	5.0762 ng/ml
Tramadol	4.191	119730	12101.95	3.7	185.10	1174691	4.8640 ng/ml
Trazodone	5.086	29406	3131.70	77.8	1558.84	251015	4.8880 ng/ml
Venlafaxine	4.996	92116	2370.10	38.5	317.75	936261	6.3076 ng/ml
Zolpidem	4.827	107234	18662.19	31.2	3109.56	1002652	4.9096 ng/ml

BW

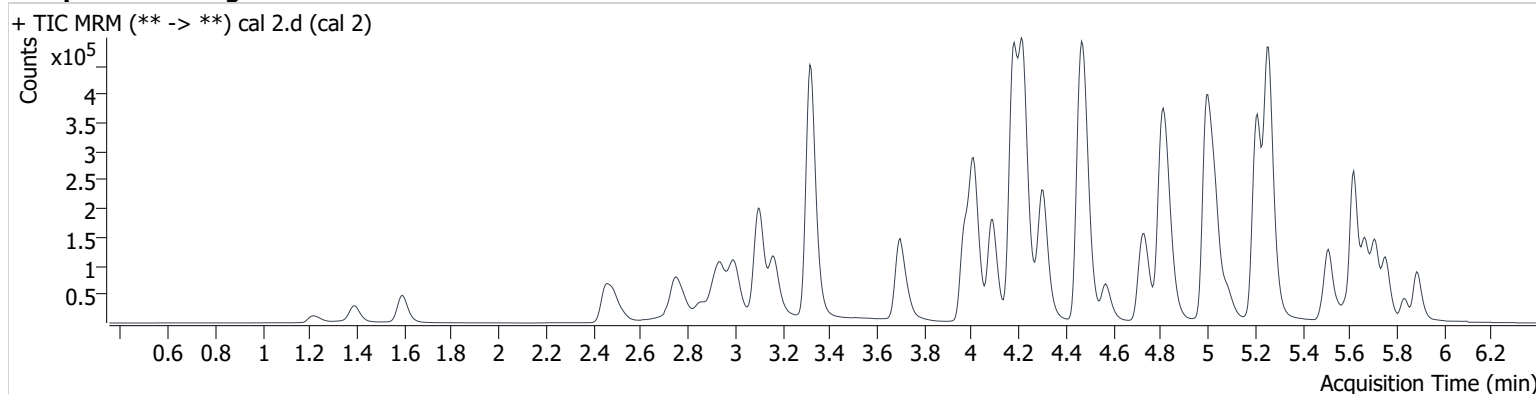
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-B1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 2:09:19 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	1618	327.53	82.1	2039.80	54835	0.8949 ng/ml
7-aminoclonazepam	4.200	23076	1312.08	83.1	328.53	93203	10.1750 ng/ml
a-hydroxyalprazolam	5.642	2836	985.92	55.3	1355.84	15068	9.4282 ng/ml
alpha-PVP	4.311	105357	6446.87	52.2	2247.15	464928	10.6582 ng/ml
Alprazolam	5.716	45872	1553.00	110.9	930.21	149434	10.5608 ng/ml
Amphetamine	2.995	154664	1998.96	53.6	1026.86	197196	10.8950 ng/ml
Benzoylcegonine	3.809	2162	∞	7.2	∞	7198	10.2042 ng/ml
Buprenorphine	5.729	907	1307.46	18.6	1672.54	37813	0.9770 ng/ml
Bupropion	4.743	102432	10770.90	59.5	2585.69	363371	9.7902 ng/ml
Carisoprodol	5.672	40759	40633.46	57.6	∞	204426	9.9538 ng/ml
Citalopram	5.204	57985	603.75	47.3	53970.09	251377	10.3610 ng/ml
Clonazepam	5.566	9908	2051.00	34.3	1716.40	15310	10.2301 ng/ml
Cocaine	4.220	105898	44818.64	42.8	31318.81	912478	10.6380 ng/ml
Codeine	2.527	12512	1446.80	105.2	6117.88	58566	9.4611 ng/ml
Cyclobenzaprine	5.594	17658	15662.88	11.3	318.23	67497	10.7150 ng/ml
Dextromethorphan	5.223	35061	23916.35	74.1	719.29	171164	9.6671 ng/ml
Dextrorphan	4.090	34211	92524.60	216.7	4936.95	404142	10.3994 ng/ml
Diazepam	5.891	32775	∞	87.1	∞	156511	10.0063 ng/ml
Dihydrocodeine	2.485	36587	8454.24	63.5	4773.91	192214	10.5490 ng/ml
Diphenhydramine	5.259	192142	16283.79	34.4	1278.22	954445	10.5575 ng/ml
Doxylamine	4.481	279276	4610.74	96.8	4705.91	1164681	9.9756 ng/ml
EDDP	5.212	34978	10994.31	235.1	∞	417069	9.5998 ng/ml
Fentanyl	5.046	4004	974.88	73.3	∞	188772	1.0247 ng/ml
Fluoxetine	5.679	7028	68.76	10.1	485.79	27322	9.9697 ng/ml
Hydrocodone	2.972	32705	1683.00	39.8	370.69	188778	10.0488 ng/ml
Hydromorphone	1.598	26834	1201.06	73.5	5200.87	96406	10.0320 ng/ml
Ketamine	3.984	88089	5508.30	37.7	2644.04	397626	9.9899 ng/ml
Lamotrigine	4.268	9358	618.71	87.0	874.75	171164	10.1109 ng/ml
Lorazepam	5.694	4529	215.63	61.9	18.16	149434	10.8353 ng/ml
Meprobamate	4.861	16204	1321.44	29.8	321.19	67786	10.0389 ng/ml
Methadone	5.618	97466	16442.42	46.9	11102.85	473641	10.4089 ng/ml
Methamphetamine	3.167	162610	497.19	37.9	∞	540725	9.9058 ng/ml
Mirtazapine	4.569	118733	11859.71	45.6	16200.87	473641	10.3400 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.178	13260	17956.88	38.8	∞	473641	10.1193 ng/ml
Morphine	1.226	6803	3755.47	22.8	2313.91	9263	9.8229 ng/ml
Norbuprenorphine	4.958	169	190.36	104.4	357.47	5085	0.8988 ng/ml
Nordiazepam	5.841	20628	43102.41	61.2	22691.58	64065	9.9914 ng/ml
Norfentanyl	4.035	16133	908.15	40.6	273.40	679612	1.0052 ng/ml
Norhydrocodone	3.029	1910	335.16	44.2	28.78	45543	9.2597 ng/ml
Noroxycodone	2.875	21495	717.00	41.0	146.42	75625	9.7980 ng/ml
O-desmethyl-tramadol	3.323	231114	39626.25	6.5	15786.89	1058551	10.5335 ng/ml
Oxazepam	5.701	6884	221.65	75.9	47.02	27406	10.4488 ng/ml
Oxycodone	2.778	60188	719.73	29.2	753.78	255228	10.2735 ng/ml
Oxymorphone	1.395	21700	∞	43.6	∞	78419	10.0647 ng/ml
Phentermine	3.731	46578	566.99	4.7	94.18	427865	9.4826 ng/ml
Promethazine	5.516	27738	1048.72	30.3	348.93	113755	10.5558 ng/ml
Quetiapine	5.514	72976	4365.24	60.1	1424.71	103646	9.7473 ng/ml
Sertraline	5.741	1957	40.96	114.7	1213.00	9675	11.0123 ng/ml
Temazepam	5.757	37700	2644.53	30.7	138.60	175096	9.6416 ng/ml
Tramadol	4.191	224869	16639.88	3.6	218.18	1109485	9.9666 ng/ml
Trazodone	5.086	66049	6913.27	79.4	12865.03	272214	9.9805 ng/ml
Venlafaxine	4.996	179447	96444.47	39.3	2118.00	879986	10.5996 ng/ml
Zolpidem	4.827	213420	165470.60	31.1	3464.75	966004	9.9249 ng/ml

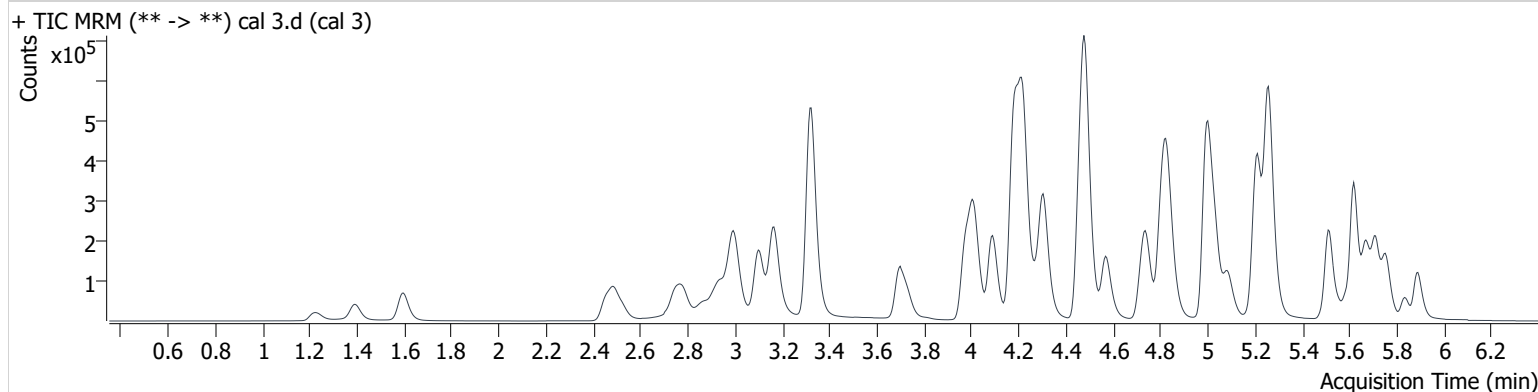
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-C1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 2:20:08 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	4785	1001.96	72.9	7416.81	49088	3.0526 ng/ml
7-aminoclonazepam	4.200	62520	1887.57	85.7	940.02	87616	29.2076 ng/ml
a-hydroxyalprazolam	5.642	7667	10569.49	59.4	303.88	12930	29.2656 ng/ml
alpha-PVP	4.311	275994	18766.22	53.0	19783.77	417248	26.8569 ng/ml
Alprazolam	5.716	117783	3220.76	110.7	2235.71	128766	27.0794 ng/ml
Amphetamine	2.995	331100	6458.29	57.2	2130.87	171769	29.2806 ng/ml
Benzoylcegonine	3.814	5593	∞	8.0	∞	6264	28.6648 ng/ml
Buprenorphine	5.734	2262	243.45	19.0	926.10	34060	2.6853 ng/ml
Bupropion	4.743	274290	22252.73	59.2	5386.85	328672	28.2992 ng/ml
Carisoprodol	5.672	102757	∞	56.8	745.84	176023	28.7700 ng/ml
Citalopram	5.204	142343	2822.58	48.2	1458.88	208111	27.9834 ng/ml
Clonazepam	5.561	25648	2272.31	34.5	383.68	13311	29.6111 ng/ml
Cocaine	4.220	267012	∞	42.6	∞	788120	27.4513 ng/ml
Codeine	2.527	33206	4840.49	104.4	5837.30	51515	27.2785 ng/ml
Cyclobenzaprine	5.594	62821	∞	11.1	3400.07	77827	28.2205 ng/ml
Dextromethorphan	5.223	94578	1806.11	74.8	121545.79	151080	28.4669 ng/ml
Dextroprorphan	4.090	86749	127733.38	209.8	33301.63	343023	27.4785 ng/ml
Diazepam	5.891	88174	∞	85.0	4968.14	134489	28.6875 ng/ml
Dihydrocodeine	2.490	91800	26845.00	67.1	2178.20	173666	29.9498 ng/ml
Diphenhydramine	5.259	497125	29119.11	34.2	∞	817392	27.0138 ng/ml
Doxylamine	4.481	729229	7353.48	97.1	∞	1038463	28.8234 ng/ml
EDDP	5.212	72607	∞	237.8	∞	288293	27.5162 ng/ml
Fentanyl	5.040	11499	741.60	72.4	9024.22	186676	2.8984 ng/ml
Fluoxetine	5.679	47560	19699.46	8.9	∞	59218	28.6927 ng/ml
Hydrocodone	2.972	86615	1935.65	40.2	708.07	169176	28.7485 ng/ml
Hydromorphone	1.598	72230	1906.21	73.3	485.95	89557	28.3007 ng/ml
Ketamine	3.984	231695	170609.56	38.4	2498.92	354799	29.3545 ng/ml
Lamotrigine	4.268	22791	2548.07	87.5	540.68	151080	32.5251 ng/ml
Lorazepam	5.694	10415	576.99	61.7	35.97	128766	29.2193 ng/ml
Meprobamate	4.861	41598	22900.12	28.7	123.89	57899	29.2454 ng/ml
Methadone	5.618	257132	2240.57	45.8	5527.79	413028	27.6506 ng/ml
Methamphetamine	3.167	348369	2838.02	41.7	470.80	458465	29.6044 ng/ml
Metoprolol	4.277	65536	4685.68	96.5	2971.34	817392	25.3817 ng/ml



# AM #28 Multi-Drug Quant. Results

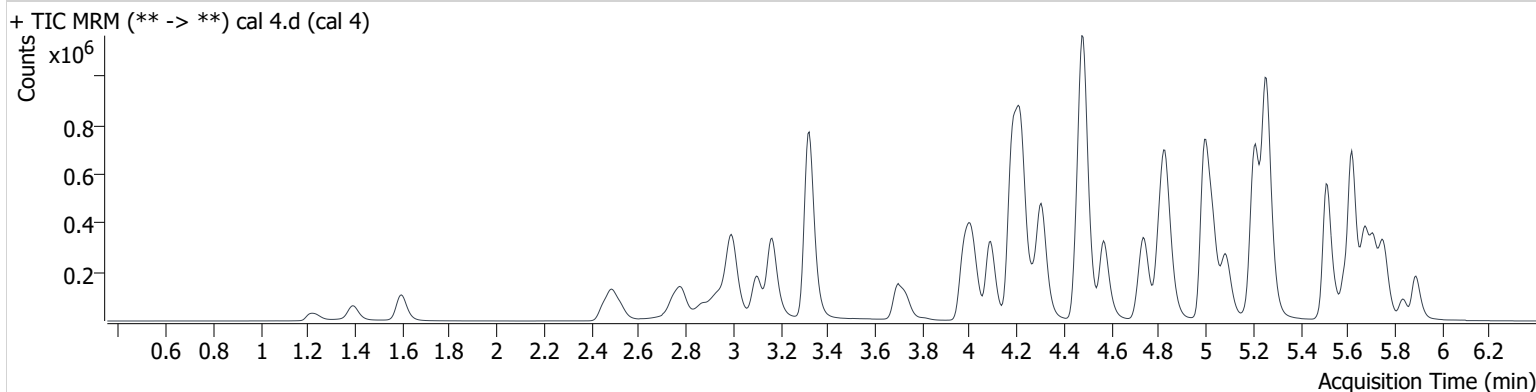
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	268250	28628.88	46.8	56592.37	413028	29.4100 ng/ml
Mitragynine	5.178	34099	52621.90	39.7	23595.63	413028	29.7558 ng/ml
Morphine	1.226	18152	1206.51	23.1	1392.17	8360	28.8498 ng/ml
Norbuprenorphine	4.958	379	∞	88.4	367.69	4629	2.8493 ng/ml
Nordiazepam	5.841	50529	12681.13	60.9	56017.06	54452	28.6925 ng/ml
Norfentanyl	4.035	40738	24921.99	41.9	1081.76	598406	2.7852 ng/ml
Norhydrocodone	3.029	6324	117.52	41.1	135.57	42596	24.6156 ng/ml
Noroxycodone	2.875	56550	393.63	41.7	1179.28	67275	29.2290 ng/ml
O-desmethyl-tramadol	3.323	609275	1905.39	6.5	4871.41	936363	27.1564 ng/ml
Oxazepam	5.701	16460	1755.17	71.9	236.04	21542	28.0495 ng/ml
Oxycodone	2.778	157700	1004.77	29.6	2221.66	228900	28.4686 ng/ml
Oxymorphone	1.395	56854	∞	43.9	∞	68886	29.3765 ng/ml
Phentermine	3.731	120679	∞	4.8	328.42	378418	33.2525 ng/ml
Promethazine	5.516	97214	16023.23	31.9	1157.89	134479	27.6030 ng/ml
Quetiapine	5.514	176316	193436.31	58.9	117251.04	82946	29.4816 ng/ml
Sertraline	5.746	22916	923.05	105.1	10455.52	34015	29.1026 ng/ml
Temazepam	5.762	97152	1993.25	31.0	221.36	152600	27.1582 ng/ml
Tramadol	4.191	580876	48994.97	3.6	555.67	984852	29.5725 ng/ml
Trazodone	5.086	167261	38601.60	79.5	11928.19	235446	28.9635 ng/ml
Venlafaxine	4.996	472213	∞	39.1	1508.29	778133	26.9865 ng/ml
Zolpidem	4.832	562291	55032.17	30.4	22817.50	860548	28.9545 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-D1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 2:30:55 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	8909	1515.42	72.7	∞	56928	4.9256 ng/ml
7-aminoclonazepam	4.200	108030	7128.78	85.2	2536.43	94562	46.7246 ng/ml
a-hydroxyalprazolam	5.637	13574	355.93	58.2	∞	14629	45.6802 ng/ml
alpha-PVP	4.311	516477	14645.34	52.8	22804.87	476460	42.5963 ng/ml
Alprazolam	5.716	208770	4167.29	110.9	5192.96	142025	42.1714 ng/ml
Amphetamine	3.000	591585	7536.40	54.0	3758.22	180717	50.9257 ng/ml
Benzoylcegonine	3.814	10108	∞	7.7	1069.34	7629	42.1175 ng/ml
Buprenorphine	5.729	5594	∞	15.2	2001.74	47191	4.7834 ng/ml
Bupropion	4.743	482956	41537.20	60.0	23903.99	357785	45.5576 ng/ml
Carisoprodol	5.672	179397	133541.94	57.5	1333.25	190928	46.1887 ng/ml
Citalopram	5.199	305825	7074.87	46.8	204699.53	277924	44.1716 ng/ml
Clonazepam	5.561	47403	∞	33.9	678.47	16162	44.8512 ng/ml
Cocaine	4.220	492552	∞	42.7	∞	909503	42.7567 ng/ml
Codeine	2.527	59557	5890.99	106.0	16637.43	56881	43.9167 ng/ml
Cyclobenzaprine	5.594	245386	∞	10.7	708.39	190297	43.6957 ng/ml
Dextromethorphan	5.223	226650	∞	77.3	∞	230175	44.4770 ng/ml
Dextrorphan	4.090	168251	∞	212.9	12592.39	410533	43.4103 ng/ml
Diazepam	5.891	162752	13145.67	85.0	5302.69	154319	45.3936 ng/ml
Dihydrocodeine	2.490	174868	32441.52	65.0	21030.82	198970	50.0401 ng/ml
Diphenhydramine	5.259	1059237	8573.47	34.4	18169.93	1074751	42.2772 ng/ml
Doxylamine	4.481	1378161	145032.87	97.1	48521.75	1209902	46.6285 ng/ml
EDDP	5.212	148795	213148.14	235.6	51530.40	364936	44.1410 ng/ml
Fentanyl	5.046	33357	21761.08	73.5	2702.69	333972	4.6742 ng/ml
Fluoxetine	5.685	227371	25358.89	8.7	∞	177901	44.9823 ng/ml
Hydrocodone	2.972	162061	20212.64	38.7	778.93	193447	46.7326 ng/ml
Hydromorphone	1.603	131423	2812.84	73.7	2162.53	97897	46.8372 ng/ml
Ketamine	3.984	421624	10433.38	38.7	2648.66	408502	46.3673 ng/ml
Lamotrigine	4.268	45800	3488.99	86.3	490.37	230175	43.7417 ng/ml
Lorazepam	5.694	18023	267.39	59.1	82.38	142025	45.9463 ng/ml
Meprobamate	4.861	74195	∞	30.1	573.37	66149	45.3981 ng/ml
Methadone	5.618	641754	71430.19	46.2	3416.88	631761	43.9197 ng/ml
Methamphetamine	3.167	544211	∞	39.6	787.91	449325	48.9678 ng/ml
Metoprolol	4.277	120256	5101.89	96.5	∞	1074751	44.2128 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	608065	200520.69	47.2	74618.13	631761	44.3784 ng/ml
Mitragynine	5.178	88206	1132.53	39.1	50625.44	631761	50.2908 ng/ml
Morphine	1.226	32746	1251.46	22.2	4388.86	9479	45.8420 ng/ml
Norbuprenorphine	4.953	804	1188.11	83.5	1088.89	6515	4.5068 ng/ml
Nordiazepam	5.841	91205	∞	61.9	32625.87	60756	46.3832 ng/ml
Norfentanyl	4.035	79582	1754.87	40.7	3941.69	688262	4.6941 ng/ml
Norhydrocodone	3.029	14438	1847.36	42.5	241.59	51690	43.4831 ng/ml
Noroxycodone	2.875	101708	394.35	43.5	1414.04	77177	45.8980 ng/ml
O-desmethyl-tramadol	3.323	1144596	88529.35	6.5	11597.08	1084721	42.7091 ng/ml
Oxazepam	5.701	25781	547.86	73.7	213.26	20472	45.0414 ng/ml
Oxycodone	2.778	295406	1224.42	29.3	557.48	266497	45.3146 ng/ml
Oxymorphone	1.395	105257	16643.47	43.2	∞	80479	46.3626 ng/ml
Phentermine	3.737	204237	1735.14	4.7	494.33	409114	53.6582 ng/ml
Promethazine	5.516	382939	274496.82	32.1	4357.75	329906	43.1844 ng/ml
Quetiapine	5.514	376907	10349.28	57.8	∞	113026	46.2652 ng/ml
Sertraline	5.747	122506	50330.03	100.4	1017.88	110740	45.6988 ng/ml
Temazepam	5.762	178827	3066.86	31.6	756.23	167758	45.0077 ng/ml
Tramadol	4.191	1083258	89655.36	3.6	1853.98	1122121	48.5923 ng/ml
Trazodone	5.086	403631	44949.42	78.8	22314.46	349706	46.9740 ng/ml
Venlafaxine	4.996	887938	∞	39.0	2211.35	903118	42.2917 ng/ml
Zolpidem	4.832	1068194	56785.99	31.0	95277.16	1003819	47.0267 ng/ml

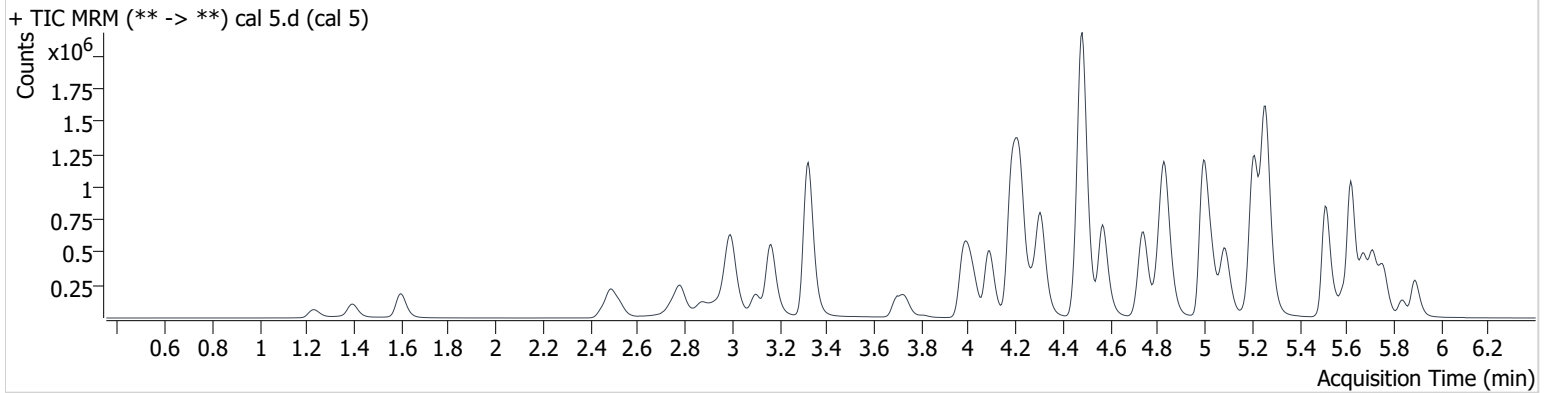
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 2:41:43 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	18456	∞	76.6	∞	59007	9.8850 ng/ml
7-aminoclonazepam	4.200	203706	30305.08	85.3	11514.08	91383	91.1121 ng/ml
a-hydroxyalprazolam	5.637	27485	1220.00	58.1	5585.77	13177	102.4301 ng/ml
alpha-PVP	4.311	1076421	96280.84	52.3	14233.59	481482	85.4966 ng/ml
Alprazolam	5.716	408229	5547.36	109.7	4649.78	132686	85.8425 ng/ml
Amphetamine	2.995	1151942	12950.86	51.5	4108.37	178484	102.0734 ng/ml
Benzoylcegonine	3.809	20768	∞	8.2	1148.21	7649	85.4249 ng/ml
Buprenorphine	5.734	10971	1208.49	17.6	1551.27	45689	9.6774 ng/ml
Bupropion	4.743	1093455	∞	59.6	115558.17	398637	92.2160 ng/ml
Carisoprodol	5.672	350387	∞	58.6	3278.92	186895	91.9667 ng/ml
Citalopram	5.199	621277	27387.71	47.3	∞	277076	88.5620 ng/ml
Clonazepam	5.561	98245	9273.40	32.9	32256.69	16205	92.2519 ng/ml
Cocaine	4.220	1006332	∞	42.8	1101.73	914314	84.9580 ng/ml
Codeine	2.527	117269	1726.01	104.9	22666.12	54920	88.9080 ng/ml
Cyclobenzaprine	5.594	316126	5960.33	10.9	4622.67	120480	86.5114 ng/ml
Dextromethorphan	5.223	417723	44226.98	76.7	∞	210772	88.9880 ng/ml
Dextrorphan	4.090	347681	116327.05	215.4	∞	422503	85.3430 ng/ml
Diazepam	5.891	313623	19670.79	86.6	18684.71	149985	88.7834 ng/ml
Dihydrocodeine	2.485	349432	252363.44	64.9	30126.59	202651	98.5312 ng/ml
Diphenhydramine	5.259	2249642	116980.68	34.0	13875.80	1125426	83.2633 ng/ml
Doxylamine	4.481	2932210	85375.62	97.1	36399.78	1261959	94.9053 ng/ml
EDDP	5.212	374769	417648.37	229.8	7914.74	441880	91.1103 ng/ml
Fentanyl	5.046	54561	7419.37	77.0	139887.75	267936	9.4873 ng/ml
Fluoxetine	5.679	232456	∞	8.9	∞	89581	90.1479 ng/ml
Hydrocodone	2.972	336454	2818.87	40.3	2119.67	200123	93.2963 ng/ml
Hydromorphone	1.603	265287	∞	74.0	1898.90	98562	93.5001 ng/ml
Ketamine	3.984	872646	168359.61	38.6	9952.32	417271	93.9020 ng/ml
Lamotrigine	4.268	89047	3296.71	86.8	5332.22	210772	95.8274 ng/ml
Lorazepam	5.694	32720	1127.23	57.8	144.57	132686	89.4578 ng/ml
Meprobamate	4.861	146545	29382.98	29.7	273.00	62127	94.9623 ng/ml
Methadone	5.618	1260257	11578.90	45.7	10186.55	626570	85.1048 ng/ml
Methamphetamine	3.167	928672	∞	40.0	2015.25	405501	95.2616 ng/ml
Metoprolol	4.277	231965	70783.44	96.3	∞	1125426	100.1582 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	1350645	102634.03	47.1	53135.03	626570	101.4330 ng/ml
Mitragynine	5.173	159619	182447.64	38.6	152010.03	626570	91.7247 ng/ml
Morphine	1.231	65277	18404.60	22.3	5232.76	9398	92.0712 ng/ml
Norbuprenorphine	4.958	1697	1976.79	89.8	2144.15	6494	10.0186 ng/ml
Nordiazepam	5.841	169373	∞	62.1	60063.11	55622	94.0304 ng/ml
Norfentanyl	4.035	166096	5160.99	39.8	∞	689781	9.7190 ng/ml
Norhydrocodone	3.029	37217	2404.33	39.5	1454.22	57146	97.1093 ng/ml
Noroxycodone	2.875	220695	26245.94	40.6	389.09	76912	100.0884 ng/ml
O-desmethyl-tramadol	3.323	2350294	832672.50	6.6	4328.01	1090307	85.0178 ng/ml
Oxazepam	5.701	44005	828.32	72.7	363.47	17880	86.2798 ng/ml
Oxycodone	2.778	621958	14471.42	29.1	1537.42	277009	90.9617 ng/ml
Oxymorphone	1.395	215762	∞	43.1	∞	81124	93.9465 ng/ml
Phentermine	3.731	394280	2968.47	4.6	776.73	407228	106.7320 ng/ml
Promethazine	5.511	505647	34525.88	31.3	2758.32	212169	86.6863 ng/ml
Quetiapine	5.514	857645	802329.64	58.7	5125.20	127818	93.1200 ng/ml
Sertraline	5.746	115964	10647.93	101.2	66215.60	52417	88.1388 ng/ml
Temazepam	5.762	352851	29989.75	31.3	1288.86	160781	91.9298 ng/ml
Tramadol	4.191	2148936	116578.13	3.6	1654.65	1173612	92.4338 ng/ml
Trazodone	5.086	847249	60152.96	78.7	18636.43	353923	97.2832 ng/ml
Venlafaxine	4.996	1899560	10547.03	38.7	39303.35	943287	84.2041 ng/ml
Zolpidem	4.832	2233819	76659.80	30.8	54723.61	1042558	94.4821 ng/ml

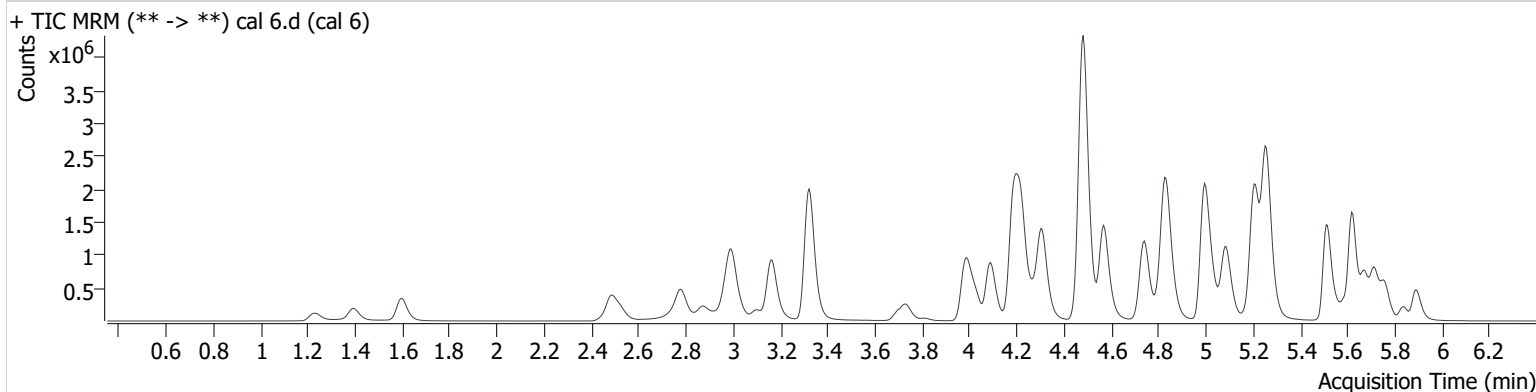
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	cal 6
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-F1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 2:52:30 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	40955	1780.57	75.7	∞	52361	24.7823 ng/ml
7-aminoclonazepam	4.200	340154	16084.89	85.2	38854.81	68000	204.3803 ng/ml
a-hydroxyalprazolam	5.642	53651	1826.17	59.4	1556.78	11132	236.4184 ng/ml
alpha-PVP	4.311	2217324	238862.17	52.2	12327.52	398162	209.6636 ng/ml
Alprazolam	5.716	762037	5704.64	109.7	1639.06	101577	206.1271 ng/ml
Amphetamine	2.995	1973768	27835.89	51.4	24098.44	143656	219.2358 ng/ml
Benzoylcegonine	3.814	51883	∞	7.6	4855.42	7432	218.2839 ng/ml
Buprenorphine	5.734	20909	∞	15.4	3978.91	32945	25.5572 ng/ml
Bupropion	4.743	2206704	31385.33	59.1	15580.50	331561	223.2516 ng/ml
Carisoprodol	5.672	690693	30079.85	57.4	5948.25	150204	225.2899 ng/ml
Citalopram	5.199	1062824	63769.17	47.4	∞	192886	215.6001 ng/ml
Clonazepam	5.561	202283	2029.23	33.0	2210.19	13857	221.5273 ng/ml
Cocaine	4.220	2018371	∞	42.2	114249.34	736644	208.6990 ng/ml
Codeine	2.527	228789	3160.69	104.4	9932.68	42854	221.3538 ng/ml
Cyclobenzaprine	5.594	496360	∞	10.8	1971.93	78216	205.9392 ng/ml
Dextromethorphan	5.223	744860	25706.61	74.9	49629.63	147199	226.3972 ng/ml
Dextrorphan	4.090	735762	1062945.87	214.2	133185.18	357316	210.8377 ng/ml
Diazepam	5.891	606462	16018.86	86.0	13345.48	119887	213.0260 ng/ml
Dihydrocodeine	2.485	698993	85948.95	64.9	53137.78	183465	218.1565 ng/ml
Diphenhydramine	5.259	4442025	143483.85	33.4	19323.24	871848	208.4844 ng/ml
Doxylamine	4.481	6310250	∞	97.9	38531.64	1123656	229.0924 ng/ml
EDDP	5.207	851999	80156.62	237.0	22152.74	401959	226.7187 ng/ml
Fentanyl	5.041	112108	1559.46	76.1	35326.77	215526	24.1712 ng/ml
Fluoxetine	5.679	307867	∞	8.8	43064.52	47769	222.1946 ng/ml
Hydrocodone	2.967	720235	1616.14	40.0	3469.94	181210	219.8988 ng/ml
Hydromorphone	1.598	560425	2115.32	74.0	∞	88478	219.4849 ng/ml
Ketamine	3.990	1788369	98328.67	38.0	5816.12	357076	224.8133 ng/ml
Lamotrigine	4.268	161837	10075.20	85.7	9899.41	147199	253.5927 ng/ml
Lorazepam	5.694	59020	3013.84	59.1	317.02	101577	211.0261 ng/ml
Meprobamate	4.861	284058	66085.17	29.8	564.20	45939	248.1872 ng/ml
Methadone	5.618	2406571	136877.54	44.9	58389.10	474118	211.8827 ng/ml
Methamphetamine	3.167	1583660	1868.97	39.4	5733.77	299878	223.5806 ng/ml
Metoprolol	4.277	408017	31332.67	96.1	∞	871848	255.6524 ng/ml

# AM #28 Multi-Drug Quant. Results

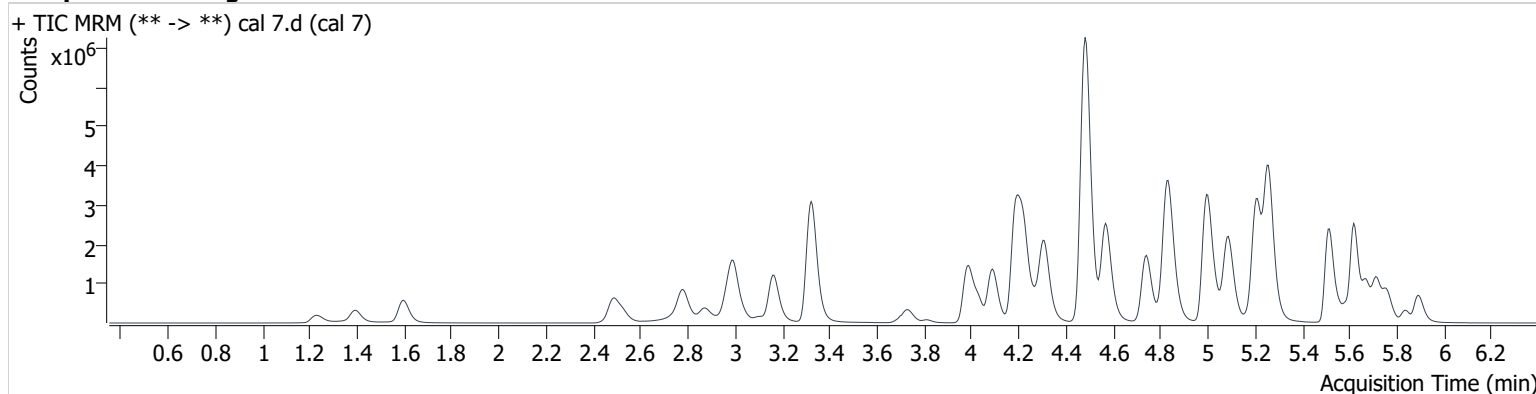
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	2796824	216739.23	46.9	321244.02	474118	280.4396 ng/ml
Mitragynine	5.173	300838	87225.91	40.8	94383.95	474118	228.3989 ng/ml
Morphine	1.231	136052	24451.40	22.6	680.79	7990	225.5855 ng/ml
Norbuprenorphine	4.958	3168	∞	98.3	3306.83	5713	21.7390 ng/ml
Nordiazepam	5.841	311513	19656.19	59.9	11348.25	42533	226.0871 ng/ml
Norfentanyl	4.035	371219	∞	40.6	6806.02	604857	24.6906 ng/ml
Norhydrocodone	3.029	93956	653.80	41.2	1471.43	52860	259.4786 ng/ml
Noroxycodone	2.870	439637	1477.65	42.7	2506.52	68156	225.1556 ng/ml
O-desmethyl-tramadol	3.323	4956414	191149.51	6.4	61741.28	921071	209.0311 ng/ml
Oxazepam	5.701	71151	1149.48	73.3	2214.89	12173	202.3953 ng/ml
Oxycodone	2.778	1357907	12788.77	29.0	5008.10	245979	222.4734 ng/ml
Oxymorphone	1.395	456196	∞	43.4	∞	71073	226.2698 ng/ml
Phentermine	3.731	707093	3778.97	4.3	801.09	338381	233.6418 ng/ml
Promethazine	5.516	780796	∞	32.3	23822.41	136537	205.3748 ng/ml
Quetiapine	5.508	1742844	14882.28	57.7	1721710.12	106893	226.3123 ng/ml
Sertraline	5.741	146004	14763.99	101.8	∞	25867	219.8253 ng/ml
Temazepam	5.762	694998	19159.46	30.9	1079.72	130003	222.9468 ng/ml
Tramadol	4.191	4379520	∞	3.5	8017.53	966454	229.1979 ng/ml
Trazodone	5.086	1855794	69081.93	78.9	59222.64	316123	238.3718 ng/ml
Venlafaxine	4.996	4010970	155059.95	38.4	9503.97	796049	207.2208 ng/ml
Zolpidem	4.827	4691757	218422.08	30.7	56913.84	910861	226.8496 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	cal 7
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-G1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 3:03:18 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.107	81423	199780.83	75.4	∞	41705	61.9199 ng/ml
7-aminoclonazepam	4.200	436841	∞	84.7	828.55	42566	419.2400 ng/ml
a-hydroxyalprazolam	5.642	88533	1968.16	59.1	3066.16	7387	587.6039 ng/ml
alpha-PVP	4.311	3659711	315792.88	52.5	289315.35	267265	512.3007 ng/ml
Alprazolam	5.716	1217705	4820.51	109.1	12439.97	63450	523.8523 ng/ml
Amphetamine	2.995	2754821	36289.02	51.4	16556.58	97910	450.7592 ng/ml
Benzoylcegonine	3.814	109514	2969.01	7.8	7251.65	6217	549.4832 ng/ml
Buprenorphine	5.734	29702	805.32	15.9	11157.51	16942	70.5772 ng/ml
Bupropion	4.743	3274779	3971490.19	59.0	167416.32	201041	545.8965 ng/ml
Carisoprodol	5.672	1121619	∞	57.1	6949.60	100526	546.3697 ng/ml
Citalopram	5.194	1560237	4152.73	47.0	∞	115824	525.0730 ng/ml
Clonazepam	5.561	358521	43076.06	33.8	37438.70	10017	542.5412 ng/ml
Cocaine	4.220	3380175	204669.13	42.2	5207.44	496286	515.9910 ng/ml
Codeine	2.527	388660	3886.45	103.6	∞	28761	559.3315 ng/ml
Cyclobenzaprine	5.589	743101	4909.97	10.7	7356.72	47100	508.5491 ng/ml
Dextromethorphan	5.223	1107109	49394.45	76.5	10150.53	90917	544.0720 ng/ml
Dextrorphan	4.090	1259215	36808.89	215.6	174736.86	245800	521.8569 ng/ml
Diazepam	5.891	1017411	12603.90	85.3	5252.37	80859	528.0268 ng/ml
Dihydrocodeine	2.485	1205992	68396.61	65.1	56036.59	145246	475.8681 ng/ml
Diphenhydramine	5.259	7436818	32052.95	32.8	33154.12	579972	521.0399 ng/ml
Doxylamine	4.481	11517241	66387.08	96.6	36137.33	854431	549.5979 ng/ml
EDDP	5.207	1572970	11137.86	238.5	30198.89	300729	558.5068 ng/ml
Fentanyl	5.046	191755	17758.44	75.7	79242.23	143371	62.0866 ng/ml
Fluoxetine	5.679	326702	29674.40	9.1	∞	21189	529.9709 ng/ml
Hydrocodone	2.967	1334163	2594.67	39.8	1324.19	137398	536.5275 ng/ml
Hydromorphone	1.598	1019807	1730.06	73.9	1997.30	63830	553.0087 ng/ml
Ketamine	3.984	3128163	546183.32	37.8	8685.41	258549	543.0231 ng/ml
Lamotrigine	4.263	243019	10980.68	87.2	∞	90917	620.2997 ng/ml
Lorazepam	5.694	95782	2044.58	57.6	879.19	63450	548.5502 ng/ml
Meprobamate	4.861	467392	830.74	29.7	7509.78	28096	666.9258 ng/ml
Methadone	5.618	4001003	40094.13	46.0	23617.53	323163	514.0817 ng/ml
Methamphetamine	3.167	2127613	5038.34	39.2	76091.09	173177	524.1138 ng/ml
Metoprolol	4.277	584998	12288.81	96.2	20789.26	579972	576.6873 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	5049134	401443.64	46.4	240127.70	323163	745.4889 ng/ml
Mitragynine	5.173	464250	54650.90	39.4	120793.67	323163	517.0486 ng/ml
Morphine	1.231	235220	1689.75	22.7	10685.15	5683	548.1342 ng/ml
Norbuprenorphine	4.953	5043	2522.55	95.2	7065.96	3696	54.1142 ng/ml
Nordiazepam	5.841	486351	∞	62.0	14754.93	27633	543.2398 ng/ml
Norfentanyl	4.036	724993	2319.62	40.0	4700.65	435234	66.9243 ng/ml
Norhydrocodone	3.034	185163	2217.45	41.0	996.50	38931	688.9471 ng/ml
Noroxycodone	2.870	791961	1612.71	41.5	4019.15	51802	533.8220 ng/ml
O-desmethyl-tramadol	3.323	8837655	2541.45	6.3	735.12	651222	523.9070 ng/ml
Oxazepam	5.701	109575	4945.00	73.6	2007.02	7177	525.7484 ng/ml
Oxycodone	2.778	2593465	5161.59	29.0	3317.05	195350	533.8933 ng/ml
Oxymorphone	1.390	846182	∞	43.3	∞	55508	536.9393 ng/ml
Phentermine	3.731	1043709	4138.02	4.5	2268.86	224350	523.6351 ng/ml
Promethazine	5.511	1131596	242609.67	31.2	58968.41	77863	519.0434 ng/ml
Quetiapine	5.514	3260944	246679.66	58.0	∞	82631	547.8117 ng/ml
Sertraline	5.741	150895	∞	100.6	23742.38	11231	518.7754 ng/ml
Temazepam	5.762	1162983	14369.29	31.1	1342.86	88178	549.0150 ng/ml
Tramadol	4.186	7382847	193462.86	3.5	9570.98	694427	538.1288 ng/ml
Trazodone	5.086	3775171	213145.71	78.1	123671.70	253291	604.9920 ng/ml
Venlafaxine	4.996	7146662	586502.85	38.0	∞	561524	519.9109 ng/ml
Zolpidem	4.832	8512420	100527.39	30.3	93962.83	697344	537.3226 ng/ml

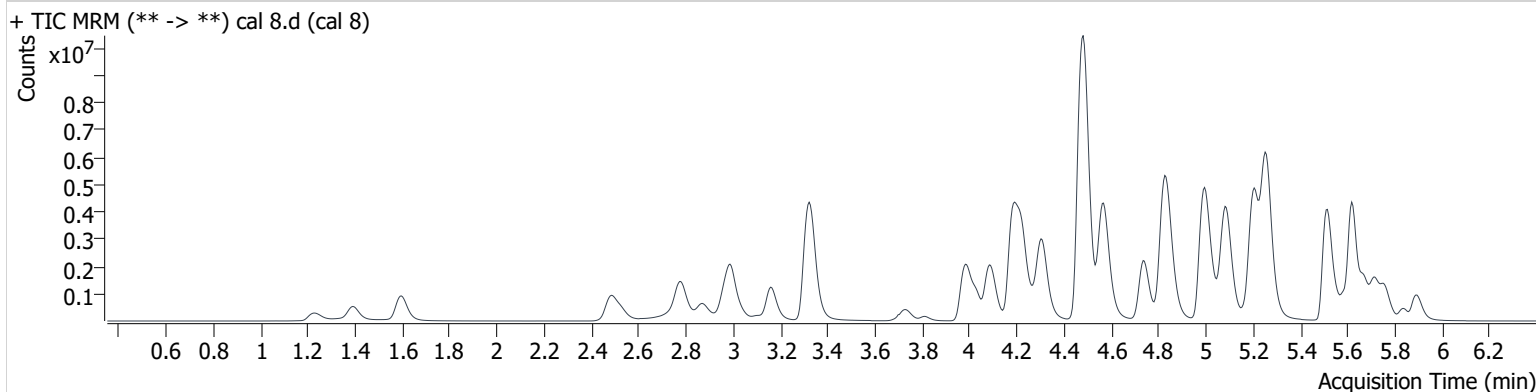
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\am 28\052219\QuantResults\mdq p1.batch.bin  
**Calibration Last Update** 5/29/2019 12:43:58 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 8.d
<b>Type</b>	Cal	<b>Sample</b>	cal 8
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P1-H1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	5/22/2019 3:24:46 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.102	151570	192914.36	75.3	∞	38353	125.3824 ng/ml
7-aminoclonazepam	4.195	443735	7627.37	85.3	11510.50	27610	656.5153 ng/ml
a-hydroxyalprazolam	5.642	125705	3409.81	58.9	1392.66	5117	1204.2791 ng/ml
alpha-PVP	4.311	5652178	306740.93	51.6	177823.51	201677	1046.2099 ng/ml
Alprazolam	5.716	1726017	4192.12	110.4	2404.46	45288	1038.1237 ng/ml
Amphetamine	2.995	3221565	26573.69	51.6	5848.60	68764	751.6961 ng/ml
Benzoyllecgonine	3.809	247434	∞	7.7	13838.40	6739	1144.4763 ng/ml
Buprenorphine	5.734	44071	∞	15.9	9772.00	11159	158.9742 ng/ml
Bupropion	4.738	4289850	212777.65	58.9	306410.39	133921	1073.1703 ng/ml
Carisoprodol	5.672	1532254	∞	58.2	42232.20	72708	1031.7961 ng/ml
Citalopram	5.189	2057148	92154.84	47.7	∞	78315	1022.5469 ng/ml
Clonazepam	5.561	573287	∞	33.4	∞	8395	1034.7775 ng/ml
Cocaine	4.220	5113985	1179356.31	41.4	968.27	370635	1043.3897 ng/ml
Codeine	2.527	607104	2664.99	103.4	7000.93	21565	1164.5462 ng/ml
Cyclobenzaprine	5.589	1542682	329350.15	10.6	2198.17	47223	1050.5228 ng/ml
Dextromethorphan	5.223	1648552	∞	75.8	112928.72	65994	1115.5704 ng/ml
Dextrorphan	4.090	2058253	272414.69	215.9	236174.53	202311	1034.5860 ng/ml
Diazepam	5.896	1508914	16838.70	85.1	10564.06	61983	1020.4386 ng/ml
Dihydrocodeine	2.485	1859362	267546.96	65.1	53803.49	136082	783.3242 ng/ml
Diphenhydramine	5.259	12332376	13429.34	33.0	59057.26	480251	1041.0214 ng/ml
Doxylamine	4.481	18219639	748866.38	97.7	54732.14	764485	971.5724 ng/ml
EDDP	5.207	2924964	49285.30	241.7	13642.04	282391	1105.3518 ng/ml
Fentanyl	5.041	396871	7339.04	81.6	6137.83	147617	124.7623 ng/ml
Fluoxetine	5.679	578717	∞	8.8	∞	19703	1008.5572 ng/ml
Hydrocodone	2.967	2348410	∞	38.8	2331.52	129754	999.6211 ng/ml
Hydromorphone	1.598	1730577	1703.80	73.9	1480.07	58348	1026.2518 ng/ml
Ketamine	3.988	4940820	1425405.18	37.3	13466.02	222186	998.0152 ng/ml
Lamotrigine	4.258	306498	15446.74	86.5	14443.30	65994	1079.7216 ng/ml
Lorazepam	5.694	150767	1872.63	56.8	605.95	45288	1209.9594 ng/ml
Meprobamate	4.866	683559	570977.08	29.8	∞	17535	1562.2388 ng/ml
Methadone	5.618	7461868	179755.56	44.5	140383.49	297101	1040.9164 ng/ml
Methamphetamine	3.162	2128823	∞	39.1	1309.31	93231	976.6655 ng/ml
Metoprolol	4.272	764445	66011.15	95.0	∞	480251	922.9075 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.569	9205540	307812.80	46.0	363838.51	297101	1480.0182 ng/ml
Mitragynine	5.173	832165	20783.65	39.7	1185433.57	297101	1008.0668 ng/ml
Morphine	1.231	383106	49051.38	23.4	3978.43	4895	1036.4126 ng/ml
Norbuprenorphine	4.953	9167	∞	93.7	17964.54	3674	99.3167 ng/ml
Nordiazepam	5.841	695586	35451.57	62.2	28644.50	21208	1012.2675 ng/ml
Norfentanyl	4.035	1289795	81817.12	40.3	10680.43	355457	145.7212 ng/ml
Norhydrocodone	3.029	326367	855.44	41.5	806.08	32595	1446.8126 ng/ml
Noroxycodone	2.870	1395500	7720.56	41.3	4507.73	49168	991.1450 ng/ml
O-desmethyl-tramadol	3.325	14070675	1400417.01	6.2	∞	523538	1035.4619 ng/ml
Oxazepam	5.696	171104	1998.74	72.5	850.70	5676	1036.1755 ng/ml
Oxycodone	2.778	4794795	29790.01	28.7	2615.64	192047	1003.3299 ng/ml
Oxymorphone	1.390	1498797	5177330.26	43.4	∞	53195	992.1374 ng/ml
Phentermine	3.731	1370447	10874.56	4.3	3283.76	163948	943.1354 ng/ml
Promethazine	5.511	2326622	134605.29	31.4	86866.68	79637	1041.5090 ng/ml
Quetiapine	5.514	5864931	2700062.48	57.4	395172.69	87410	931.4164 ng/ml
Sertraline	5.741	287895	23234.09	101.1	224169.16	10838	1022.4468 ng/ml
Temazepam	5.762	1841047	5121.79	31.2	4805.52	68077	1125.0114 ng/ml
Tramadol	4.186	10891514	295626.38	3.4	19981.61	575350	958.4080 ng/ml
Trazodone	5.086	7694781	307419.04	77.3	177921.60	277263	1126.4013 ng/ml
Venlafaxine	4.996	11757201	1477190.26	37.8	183479.88	459686	1042.4788 ng/ml
Zolpidem	4.827	13732695	682389.52	30.5	166440.73	646825	934.3894 ng/ml