























T3

**REVIEWED**  
By Sarah Pickle at 11:03 am, Jul 15, 2019

7/11/2019

**Worklist: 3537**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-2627	1	157051	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2700	1	157052	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2723	1	157072	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2751	1	157053	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2883	2	157054	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2982	3	157055	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2991	5	157056	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1781	2	157057	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1789	1	157058	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1793	1	157059	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1860	1	157060	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1896	1	157061	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1897	1	157062	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1929	1	157063	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1938	1	157064	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1940	1	157065	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1943	1	157066	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1956	1	157067	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1959	1	157068	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1988	1	157069	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1991	1	157070	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2009	1	157071	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: 07/11/19  
Plate lot#: Item #:IDP-111 Lot:190124

Analyst: Tamara Salazar  
Plate Expiration: 07/24/19

**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:** 445283-1  
**LCMS-QQQ ID:** 069901

**Column:** ~~Agilent 120 EC-C18 (2.1x100-4um)~~

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19 TS

## 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 00.5M 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\071119 MDQ P1 TS*  
Batch Name: *071119-wklist-3537-correct* <sup>TS</sup> *071119 wklist 3537 TS - correct*
- 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: Benzoylcegonine 10-1000, Buprenorphine 1-100, Lamotrigine 5-500, Lorazepam 25-1000, Norbuprenorphine 1-100, Norhydrocodone 5-500, Oxazepam 25-1000 (qualitative only)*  
*Not evaluated: EDDP*



# Idaho State Police Forensic Services

TS

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## AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

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**Methanol External Control Solution (Lot: 121218)**  
*100 ul each 1 mg/mL stock solution in 9600 ul MeOH*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Fluoxetine	Cerilliant	FN06281603	07/31/2021
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/12/18		
Prepared By:	Sarah Pickle		
Expires:	12/12/19		

**Blood External Control Solution (Lot: WS121218)**  
*50ul of methanol external control solution was added to 9950ul of blood.*  
*Approximately 50ng/mL of each compound.*

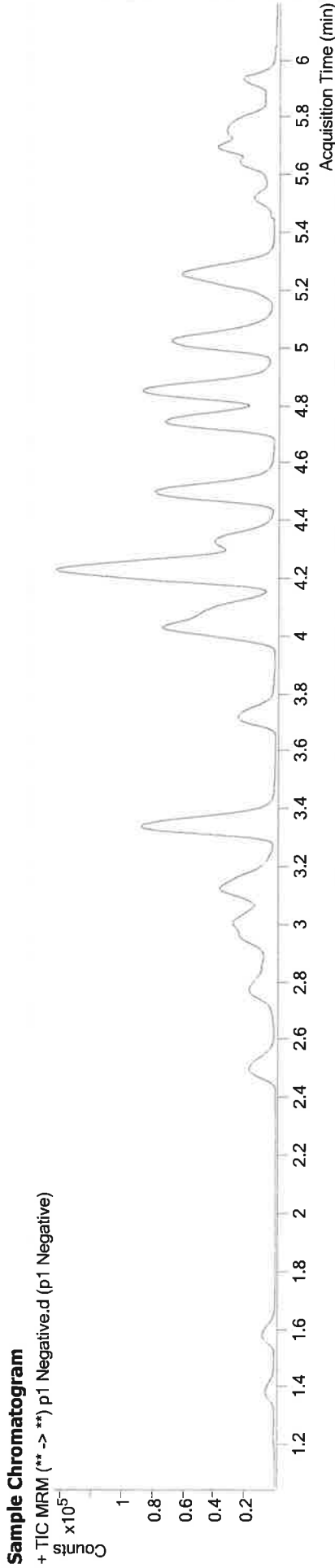
<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	177145
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared By:	Sarah Pickle	
Expires:	12/12/19	



# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\0711119 MDQ P1 TS\QuantResults\0711119 wk1st 3537 TS\_correct.batch.bin  
**Calibration Last Update** 7/12/2019 1:49:52 PM

<b>Instrument Type</b>	Falco	<b>Data File</b>	p1 Negative.d
<b>Acq. Method</b>	MDQ_P1 Combined 011619.m	<b>Sample Operator</b>	p1 Negative
<b>Sample Position</b>	P1-E2	<b>Comment</b>	
<b>Injection Volume</b>	1		
<b>Acq. Date-Time</b>	7/11/2019 4:10:18 PM		
<b>Sample Info.</b>			



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# AM #28 Multi-Drug Quant. Results

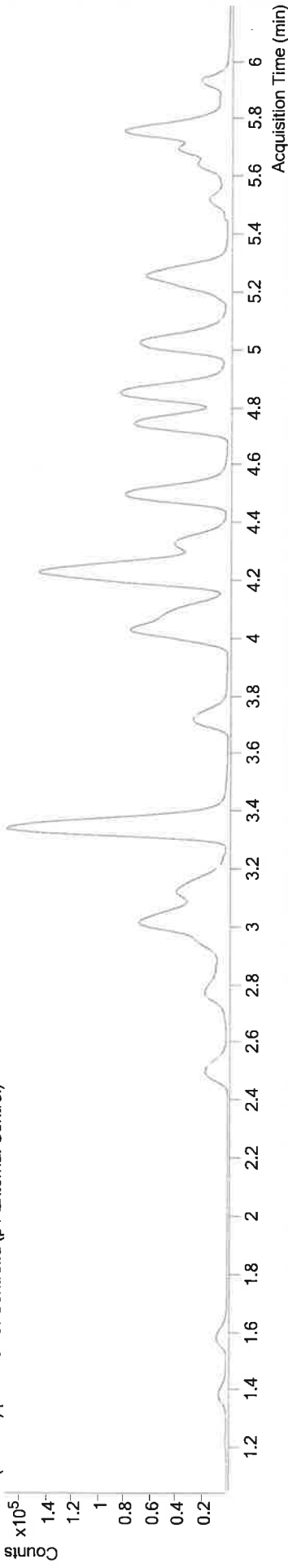
Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
7/12/2019 1:49:52 PM

**Instrument** Falco  
**Type** Sample  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-F2  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 4:31:13 PM  
**Sample Info.**

**Data File**  
**Sample** p1 External Control.d  
**Operator** p1 External Control  
**Comment**

## Sample Chromatogram

+ TIC MRM (\*\* -> \*\*) p1 External Control.d (p1 External Control)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.763	76151	791.69	106.3	2600.54	51191	44.9457 ng/ml
Amphetamine	3.028	126135	1768.36	60.5	1559.70	44615	42.9016 ng/ml
Fluoxetine	5.708	5300	∞	9.5	3338.80	5634	36.6486 ng/ml
O-desmethyl-tramadol	3.351	332653	14542.17	6.5	763.01	359936	42.3421 ng/ml

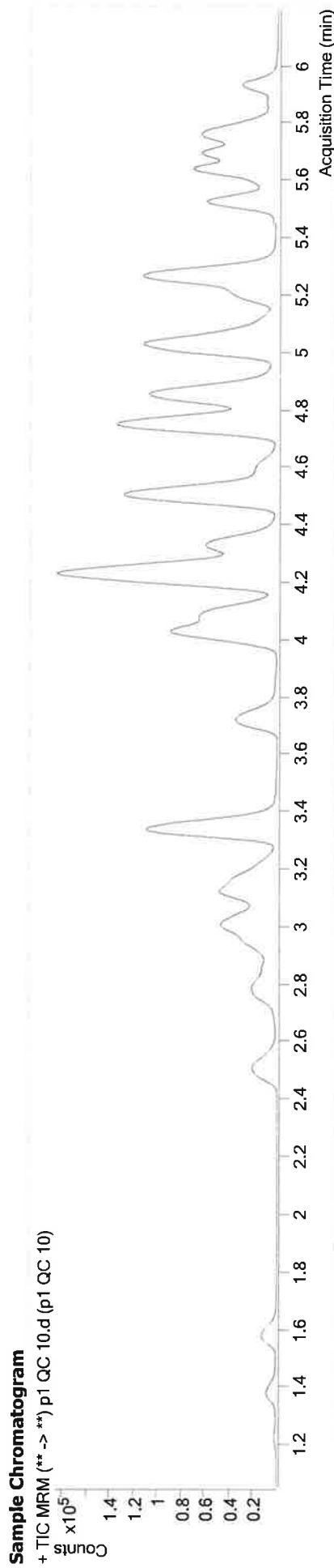
TS



# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wkfst 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-A2  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 2:15:12 PM  
**Sample Info.** p1 QC 10.d  
p1 QC 10



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	1570	134.16	69.9	125.34	50046	0.9513 ng/ml
7-aminoclonazepam	4.239	10403	8762.28	80.0	1409.40	40445	9.8633 ng/ml
a-hydroxyalprazolam	5.686	2951	57.81	54.8	33.12	12413	11.6611 ng/ml
alpha-PVP	4.345	34472	4166.04	52.5	1232.94	152828	10.1671 ng/ml
Alprazolam	5.763	17824	1198.91	104.0	425.18	51769	10.5143 ng/ml
Amphetamine	3.021	43538	436.26	57.5	1769.43	60024	10.4241 ng/ml
Benzoyllecgonine	3.855	1232	106.43	7.4	46.16	3785	9.3259 ng/ml
Buprenorphine	5.780	1398	28.71	16.7	316.42	48109	1.2420 ng/ml
Bupropion	4.767	118328	12750.55	57.8	1107.15	382935	10.8612 ng/ml
Carisoprodol	5.712	15084	1732.52	54.8	161.89	75507	10.4544 ng/ml
Citalopram	5.206	20237	1067.37	42.8	1065.07	85434	10.1747 ng/ml
Clonazepam	5.599	1745	∞	32.0	83.48	2681	10.5972 ng/ml
Cocaine	4.245	34843	3901.42	42.5	1161.82	322902	9.9905 ng/ml
Codeine	2.549	4692	328.57	103.7	459.34	21112	9.9298 ng/ml
Cyclobenzaprine	5.615	10514	∞	10.1	122.50	38589	10.6164 ng/ml
Dextromethorphan	5.249	10742	304.74	82.8	213.67	51363	9.8496 ng/ml
Dextroproprian	4.101	14033	551.73	201.7	1084.07	151118	10.6472 ng/ml
Diazepam	5.950	12212	230.78	88.5	133.64	54204	10.3279 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	12555	∞	68.2	9839.58	65982	10.1956 ng/ml
Diphenhydramine	5.276	58418	914.20	33.9	4166.91	288137	10.5621 ng/ml
Doxylamine	4.521	88930	802.17	98.2	8031.64	372250	10.1868 ng/ml
Fentanyl	5.077	1318	109.52	78.9	∞	63432	1.0147 ng/ml
Fluoxetine	5.701	11536	190.17	9.6	1510.72	42087	10.6612 ng/ml
Hydrocodone	2.997	13031	95.62	38.4	71.55	70144	10.7888 ng/ml
Hydromorphone	1.587	10319	205.80	76.1	1071.10	36803	10.1757 ng/ml
Ketamine	4.027	30838	1509.38	38.2	273.49	141305	9.9877 ng/ml
Lamotrigine	4.255	3301	391.77	80.2	144.65	141305	10.1213 ng/ml
Lorazepam	5.734	2180	19.67	39.8 <b>Low</b>	12.88	2681	8.1286 ng/ml
Meprobamate	4.884	5626	461.76	28.7	45.02	26703	10.2283 ng/ml
Methadone	5.647	29177	1914.29	48.3	455.64	133556	10.8942 ng/ml
Methamphetamine	3.196	44024	203.52	42.9	92.44	173558	9.7615 ng/ml
Metoprolol	4.314	10184	1906.03	91.0	∞	356638	10.4446 ng/ml
Mirtazapine	4.602	36778	11592.21	48.1	3272.51	152828	9.7125 ng/ml
Mitragynine	5.205	4228	22875.71	40.2	1562.65	133556	8.1966 ng/ml
Morphine	1.233	2411	2658.17	25.0	387.88	3154	9.4181 ng/ml
Norbuprenorphine	4.973	285	216.47	85.7	∞	6973	1.6087 ng/ml
Nordiazepam	5.882	3050	1380.21	50.9	339.12	8534	11.0883 ng/ml
Norfentanyl	4.069	4815	1097.50	35.5	128.05	210057	1.0033 ng/ml
Norhydrocodone	3.039	2733	101.22	42.5	48.43	88178	8.6245 ng/ml
Noroxycodone	2.888	7783	127.60	49.0	308.65	28738	9.7993 ng/ml
O-desmethyl-tramadol	3.351	80925	2615.10	6.3	751.55	356779	10.2840 ng/ml
Oxazepam	5.744	3847	16.52	51.4 <b>Low</b>	∞	11821	10.2309 ng/ml
Oxycodone	2.800	22315	127.32	30.9	77.04	87786	10.6615 ng/ml
Oxymorphone	1.383	7167	222.04	47.2	756.82	26102	10.5147 ng/ml
Phentermine	3.753	14105	487.53	4.2	18.52	144286	10.2051 ng/ml
Promethazine	5.532	19090	342.57	28.6	357.40	72902	10.8318 ng/ml
Quetiapine	5.535	30283	1181.17	59.0	2000.38	39789	10.7949 ng/ml
Sertraline	5.777	6484	201.42	94.6	177.08	22364	11.6185 ng/ml
Temazepam	5.805	9736	258.20	36.7	11.36	43417	10.1006 ng/ml
Tramadol	4.227	78309	1541.77	3.5	115.54	356638	10.7407 ng/ml
Trazodone	5.110	19737	507.96	77.1	165.35	76935	10.8298 ng/ml
Venlafaxine	5.024	60207	7520.72	38.3	358.07	285646	10.2194 ng/ml
Zolpidem	4.874	70792	20690.38	31.3	323.60	323258	10.3771 ng/ml

*Outside Curve Range*

*Outside Curve Range*

TS

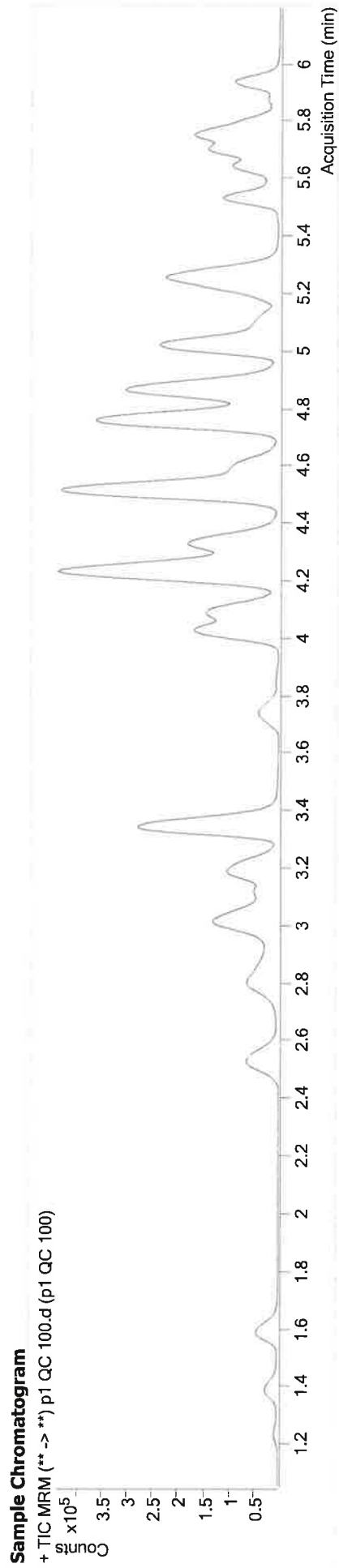


# AM #28 Multi-Drug Quant. Results

**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
 7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-B2  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 2:36:08 PM  
**Sample Info.**

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	14487	∞	72.5	333.04	48310	9.0428 ng/ml
7-aminoclonazepam	4.239	76875	3121.86	83.4	9073.77	32138	111.6234 ng/ml
a-hydroxyalprazolam	5.679	27734	715.97	62.8	∞	13037	101.7727 ng/ml
alpha-PVP	4.345	295090	18121.74	51.7	8576.22	133721	99.4615 ng/ml
Alprazolam	5.763	168206	3232.88	104.5	1328.54	50357	100.7396 ng/ml
Amphetamine	3.021	233613	∞	54.5	5666.71	32997	108.6120 ng/ml
Benzoylcegonine	3.855	9535	165.07	7.6	∞	3739	97.5192 ng/ml
Buprenorphine	5.787	5115	5822.81	17.0	567.84	22149	9.2345 ng/ml
Bupropion	4.767	806462	42903.23	58.5	10209.59	272384	106.8363 ng/ml
Carisoprodol	5.712	154920	720.74	54.9	593.44	78110	103.2010 ng/ml
Citalopram	5.206	96548	3792.59	43.1	2200.68	42288	101.5803 ng/ml
Clonazepam	5.592	15310	∞	34.1	25841.52	2254	117.3466 ng/ml
Cocaine	4.251	307520	192146.88	43.2	26182.58	292263	101.0144 ng/ml
Codeine	2.549	43277	7039.25	102.2	9559.67	19679	103.8937 ng/ml
Cyclobenzaprine	5.615	25102	308.18	11.0	519.96	10417	95.0647 ng/ml
Dextromethorphan	5.249	44413	3793.13	79.4	1398.94	22425	95.4273 ng/ml
Dextrorphan	4.101	113391	16535.13	205.1	25619.74	124409	106.7193 ng/ml
Diazepam	5.943	114565	3066.89	87.4	663.97	50200	106.1675 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	118194	37970.16	65.8	17598.59	63521	103.4784 ng/ml
Diphenhydramine	5.276	278737	84988.73	34.1	6801.16	144972	102.4622 ng/ml
Doxylamine	4.521	761624	100751.43	98.4	49075.24	328391	102.3414 ng/ml
EDDP	5.242	184615	12865.50	42.3	3071.52	99055	109.6311 ng/ml
Fentanyl	5.070	4011	952.70	75.8	147.08	21488	9.2040 ng/ml
Fluoxetine	5.708	19938	738.07	9.2	1670.20	8715	89.1574 ng/ml
Hydrocodone	2.997	116326	∞	41.4	126.31	69031	99.8626 ng/ml
Hydromorphone	1.594	91860	679.83	75.8	1030.19	33619	100.1662 ng/ml
Ketamine	4.027	273625	22380.65	38.2	2646.57	129152	100.3427 ng/ml
Lamotrigine	4.262	28912	2157.10	78.4	799.34	129152	105.2668 ng/ml
Lorazepam	5.734	18288	150.90	55.3	58.40	2254	121.8274 ng/ml
Meprobamate	4.884	53377	2458.05	28.3	783.07	26043	101.5323 ng/ml
Methadone	5.647	121894	4339.15	50.3	847.74	59442	102.9477 ng/ml
Methamphetamine	3.196	313546	2461.78	41.5	3047.92	128197	101.4742 ng/ml
Metoprolol	4.307	84208	8035.13	90.2	∞	333562	99.6709 ng/ml
Mirtazapine	4.602	202914	16681.98	48.3	16004.32	133721	59.0830 ng/ml
Mitragyline	5.205	17998	482.16	39.4	10081.54	59442	76.3841 ng/ml
Morphine	1.240	21556	745.07	23.6	6458.55	2875	94.3431 ng/ml
Norbuprenorphine	4.973	741	646.34	105.3	218.60	3171	10.5967 ng/ml
Nordiazepam	5.889	25816	4845.52	57.4	9168.20	8501	94.1541 ng/ml
Norfentanyl	4.069	44509	32939.46	35.7	479.08	191818	10.1125 ng/ml
Norhydrocodone	3.046	32405	4236.07	42.6	234.65	82284	87.6855 ng/ml
Noroxycodone	2.888	68171	1202.92	49.3	308.08	26585	97.5471 ng/ml
O-desmethyl-tramadol	3.351	767795	45263.87	6.4	3523.14	347411	101.4519 ng/ml
Oxazepam	5.737	31258	191.45	66.6	37.38	11863	99.6914 ng/ml
Oxycodone	2.806	208745	∞	30.5	209.70	83316	107.2622 ng/ml
Oxymorphone	1.390	63311	1467.14	46.3	2487.27	24374	102.3453 ng/ml
Phentermine	3.759	98320	1466.65	3.7	158.05	103045	104.3408 ng/ml
Promethazine	5.532	49276	2357.98	28.6	764.60	21610	98.7161 ng/ml
Quetiapine	5.535	163027	54157.90	58.9	179038.71	21395	109.0498 ng/ml
Sertraline	5.770	8921	413.16	90.4	322.18	3715	97.7019 ng/ml
Temazepam	5.805	91647	1212.84	30.7	65.09	42131	96.7312 ng/ml
Tramadol	4.227	682550	32949.56	3.5	1278.61	333562	105.7381 ng/ml
Trazodone	5.110	88109	257.28	76.4	132709.35	36364	101.6363 ng/ml
Venlafaxine	5.024	486927	70695.16	38.9	5538.64	236291	100.9605 ng/ml
Zolpidem	4.874	673260	52344.85	31.8	11113.35	309726	103.7385 ng/ml

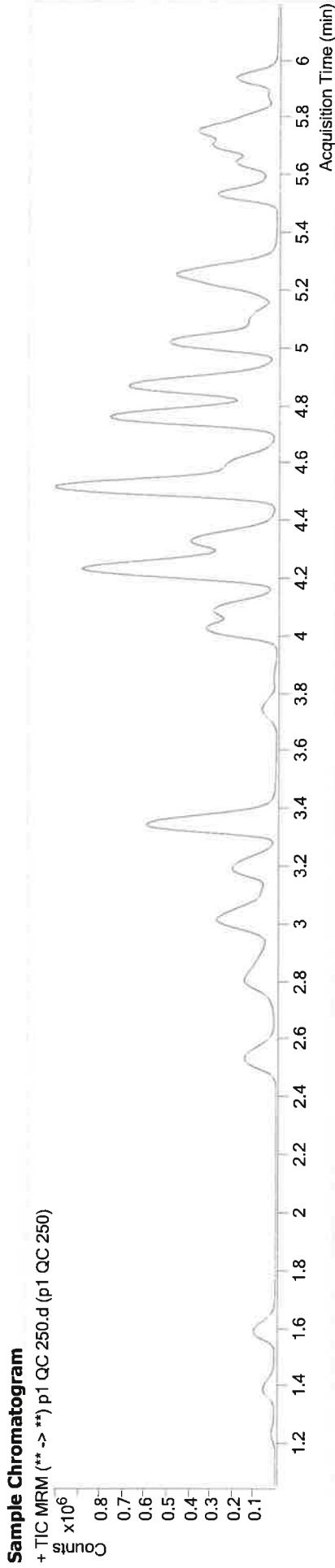
Not evaluated. TS



# AM #28 Multi-Drug Quant. Results

**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 0111619.m  
**Sample Position** P1-C2  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 2:57:02 PM  
**Sample Info.** p1 QC 250.d  
p1 QC 250



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	37643	1138.47	72.3	1239.66	50328	22.5461 ng/ml
7-aminoclonazepam	4.239	180210	9957.61	83.1	7321.93	30573	278.5666 ng/ml
a-hydroxyalprazolam	5.679	72447	402.83	61.3	682.43	14106	245.2534 ng/ml
alpha-PVP	4.345	742972	∞	51.4	37626.09	136519	245.2897 ng/ml
Alprazolam	5.763	405624	∞	106.2	∞	49652	246.1719 ng/ml
Amphetamine	3.028	501823	7744.83	55.1	9683.55	29969	257.9568 ng/ml
Benzoyllecgonine	3.855	24676	6271.16	7.6	591.30	3907	246.8264 ng/ml
Buprenorphine	5.787	10140	∞	16.6	830.42	17160	23.4859 ng/ml
Bupropion	4.767	1848421	157616.18	58.3	32208.71	256131	260.8726 ng/ml
Carisoprodol	5.712	376812	405202.94	55.6	787.36	77156	254.0239 ng/ml
Citalopram	5.206	222370	15633.48	43.3	4723.69	40217	246.5891 ng/ml
Clonazepam	5.592	40789	4572.48	34.6	1323.44	2643	267.4560 ng/ml
Cocaine	4.245	782050	169702.46	42.5	51041.55	301823	249.3528 ng/ml
Codeine	2.549	106207	7547.58	101.7	12877.61	19714	255.4288 ng/ml
Cyclobenzaprine	5.615	60941	106046.02	10.2	1215.27	10024	240.0681 ng/ml
Dextromethorphan	5.249	102492	1885.24	80.2	700.91	21011	235.4094 ng/ml
Dextroproprian	4.101	270329	3068.01	207.7	76413.64	121060	261.8271 ng/ml
Diazepam	5.943	281466	5499.81	86.6	1326.66	50985	257.0578 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	294332	154380.92	67.7	726.41	66430	246.9942 ng/ml
Diphenhydramine	5.276	637447	13886.99	33.9	2336.93	134508	252.9491 ng/ml
Doxylamine	4.521	1946605	76941.35	98.5	118303.51	338667	254.2184 ng/ml
EDDP	5.242	502575	26100.41	43.1	56024.04	111132	258.4966 ng/ml
Fentanyl	5.070	9358	725.72	80.2	3940.45	19949	23.1494 ng/ml
Fluoxetine	5.701	49931	461.35	9.1	3412.05	9087	214.1858 ng/ml
Hydrocodone	2.997	306182	∞	39.6	317.54	71338	254.7320 ng/ml
Hydromorphone	1.594	233336	∞	75.7	1988.33	34421	248.6804 ng/ml
Ketamine	4.027	700874	172147.43	38.1	∞	134125	248.0628 ng/ml
Lamotrigine	4.262	70371	3966.91	79.7	8007.40	134125	248.0169 ng/ml
Lorazepam	5.734	48998	650.74	55.9	∞	2643	284.1083 ng/ml
Meprobamate	4.884	132463	12699.38	28.9	2291.04	26531	247.6660 ng/ml
Methadone	5.647	288865	3512.26	51.0	3582.38	55911	259.4993 ng/ml
Methamphetamine	3.203	639828	6902.13	40.8	2567.27	110266	241.9110 ng/ml
Metoprolol	4.307	201560	26835.59	91.1	∞	356895	224.1306 ng/ml
Mirtazapine	4.602	491612	634528.11	48.7	21705.57	136519	139.6518 ng/ml
Mirtazapine	5.205	42174	950.48	37.8	13021.72	55911	189.9496 ng/ml
Morphine	1.240	52193	2426.66	23.9	2676.21	2986	220.2838 ng/ml
Norbuprenorphine	4.973	1796	117.24	94.0	1124.48	3030	27.3270 ng/ml
Nordiazepam	5.889	66765	∞	58.9	5735.98	8854	233.7858 ng/ml
Norfentanyl	4.062	110857	15325.25	36.4	1912.38	196183	24.6192 ng/ml
Norhydrocodone	3.046	100327	1365.32	42.8	4026.35	87249	252.4305 ng/ml
Noroxycodone	2.888	179202	∞	47.6	∞	27249	251.0593 ng/ml
O-desmethyl-tramadol	3.351	2009332	86453.81	6.5	13486.47	368536	250.4921 ng/ml
Oxazepam	5.737	77469	355.28	70.8	147.20	12138	244.8503 ng/ml
Oxycodone	2.806	525881	656.03	30.9	168.20	88731	254.0647 ng/ml
Oxymorphone	1.390	158576	∞	46.4	1034.48	24892	251.5005 ng/ml
Phentermine	3.759	220121	∞	3.6	310.72	96329	250.6411 ng/ml
Promethazine	5.532	119869	3674.34	28.3	674.34	20529	253.6651 ng/ml
Quetiapine	5.535	441053	9122.47	58.2	528549.51	22846	276.4499 ng/ml
Sertraline	5.777	20149	838.84	95.0	328.13	3803	215.7574 ng/ml
Temazepam	5.805	233716	948.56	31.5	227.78	44565	233.0032 ng/ml
Tramadol	4.227	1672017	99336.46	3.6	10066.11	356895	242.9635 ng/ml
Trazodone	5.110	250310	20124.26	77.6	160802.51	39530	265.4952 ng/ml
Venlafaxine	5.024	1225097	53425.65	39.1	10902.47	242529	247.6538 ng/ml
Zolpidem	4.874	1769038	∞	31.3	29970.95	340054	248.3844 ng/ml

Not evaluated TS

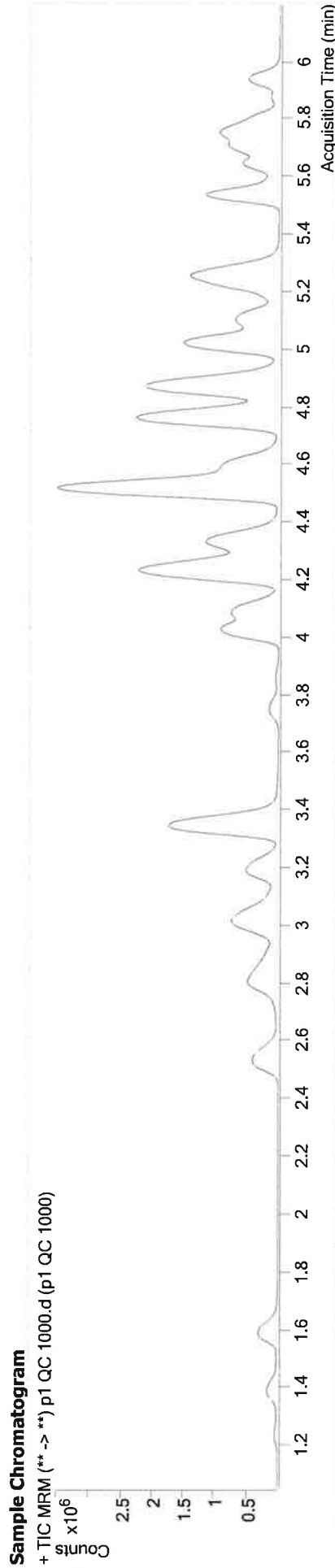
TS



# AM #28 Multi-Drug Quant. Results

**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco Data File p1 QC 1000.d  
**Type** QC Sample p1 QC 1000  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-D2  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 3:17:58 PM  
**Sample Info.**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	128369	∞	72.9	1795.34	40838	94.7322 ng/ml
7-aminoclonazepam	4.225	413515	18843.36	82.4	33087.52	20535	957.4513 ng/ml
α-hydroxyalprazolam	5.679	243500	2379.22	62.9	752.25	12332	942.0430 ng/ml
alpha-PVP	4.345	2487618	176977.44	51.4	71770.47	113269	989.8512 ng/ml
Alprazolam	5.763	1156230	3250.14	105.0	∞	34140	1020.0854 ng/ml
Amphetamine	3.028	1414298	15824.71	55.1	34708.00	23983	910.4193 ng/ml
Benzoyllecgonine	3.855	102299	1989.62	7.3	3987.91	3968	1018.4155 ng/ml
Buprenorphine	5.794	22949	1090.44	17.2	∞	9285	97.9443 ng/ml
Bupropion	4.767	5913323	611218.02	58.2	45273.26	204182	1047.8678 ng/ml
Carisoprodol	5.712	1076166	96934.17	55.7	∞	56970	982.3457 ng/ml
Citalopram	5.206	656126	39291.79	42.4	22968.16	29321	999.1779 ng/ml
Clonazepam	5.592	164426	2513.19	33.9	11218.48	2710	1053.7799 ng/ml
Cocaine	4.251	2470661	1511895.14	42.5	821957.96	238993	996.0853 ng/ml
Codeine	2.557	331085	10505.74	99.2	12049.87	15307	1027.4715 ng/ml
Cyclobenzaprine	5.615	206630	508.24	10.2	255.34	8736	934.5066 ng/ml
Dextromethorphan	5.249	317395	1382.97	80.6	390163.79	16009	957.5988 ng/ml
Dextroproprian	4.101	769291	69701.18	206.1	75575.34	86651	1041.7154 ng/ml
Diazepam	5.950	849756	9231.70	88.0	767.83	38971	1015.8154 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.520	969439	118865.48	67.0	50903.47	59188	914.2210 ng/ml
Diphenhydramine	5.283	2016284	75474.30	34.0	39132.02	105932	1016.7359 ng/ml
Doxylamine	4.521	7278420	1184055.63	97.6	424944.87	322949	997.9503 ng/ml
EDDP	5.242	1990325	80728.18	42.6	25479.64	107952	1037.6542 ng/ml
Fentanyl	5.070	33826	818.08	78.2	∞	17557	95.1096 ng/ml
Fluoxetine	5.701	130876	5778.82	9.2	195.07	6160	828.1621 ng/ml
Hydrocodone	2.997	1057834	∞	41.6	∞	64884	968.3260 ng/ml
Hydromorphone	1.594	796763	1933.90	76.0	1103.85	29663	985.7026 ng/ml
Ketamine	4.027	2440674	148878.99	38.1	10539.84	123031	942.8146 ng/ml
Lamotrigine	4.269	179155	12883.91	79.6	7354.84	123031	690.0688 ng/ml
Lorazepam	5.734	172547	∞	56.5	654.90	2710	986.9663 ng/ml
Meprobamate	4.897	388106	50873.31	28.9	538.95	18799	1024.8654 ng/ml
Methadone	5.647	997773	5620.24	50.2	8788.42	49953	1003.4826 ng/ml
Methamphetamine	3.196	1697696	27103.96	41.6	28984.13	77822	911.8207 ng/ml
Metoprolol	4.307	539979	77732.04	90.7	∞	272446	788.9082 ng/ml
Mirtazapine	4.602	2019282	135966.16	48.4	210483.56	113269	689.7470 ng/ml
Mitragynine	5.205	123888	155784.93	39.0	887.62	49953	623.9952 ng/ml
Morphine	1.240	160016	5270.58	24.0	782.63	2243	899.6970 ng/ml
Norbuprenorphine	4.973	4992	91.04	95.7	4415.72	2112	109.9018 ng/ml
Nordiazepam	5.889	222632	10094.47	58.2	2976.02	7536	915.8932 ng/ml
Norfentanyl	4.069	379267	28139.15	36.5	6357.15	162022	101.9717 ng/ml
Nerhydrocodone	3.053	387684	∞	41.8	∞	71105	1189.9139 ng/ml
Noroxycodone	2.881	560335	574.49	48.2	513.02	23148	925.5903 ng/ml
O-desmethyl-tramadol	3.351	6974229	372131.33	6.5	35326.10	321328	997.5980 ng/ml
Oxazepam	5.737	274619	1611.89	70.8	552.34	11000	964.7274 ng/ml
Oxycodone	2.806	1963426	∞	30.6	355.01	84433	997.5811 ng/ml
Oxymorphone	1.390	535633	∞	48.0	5099.61	21970	963.4383 ng/ml
Phentermine	3.759	618352	15321.36	3.6	580.59	72771	933.4920 ng/ml
Promethazine	5.532	382427	2444.21	29.1	1086.04	16943	982.2409 ng/ml
Quetiapine	5.535	2090831	1810915.21	59.6	174454.90	27379	1093.8503 ng/ml
Sertraline	5.777	47226	498.26	88.5	1025.55	2190	878.9853 ng/ml
Temazepam	5.812	799466	4113.17	30.3	1840.66	35585	997.6967 ng/ml
Tramadol	4.220	5177886	83294.01	3.6	7642.78	272446	987.7001 ng/ml
Trazodone	5.110	1522468	291790.76	76.7	79057.40	58074	1098.9406 ng/ml
Venlafaxine	5.024	4258173	150298.63	39.3	26728.32	212043	984.9044 ng/ml
Zolpidem	4.874	6315728	584262.90	32.1	70201.81	319843	943.0353 ng/ml

Not evaluated. To

Outside Curve Range. To

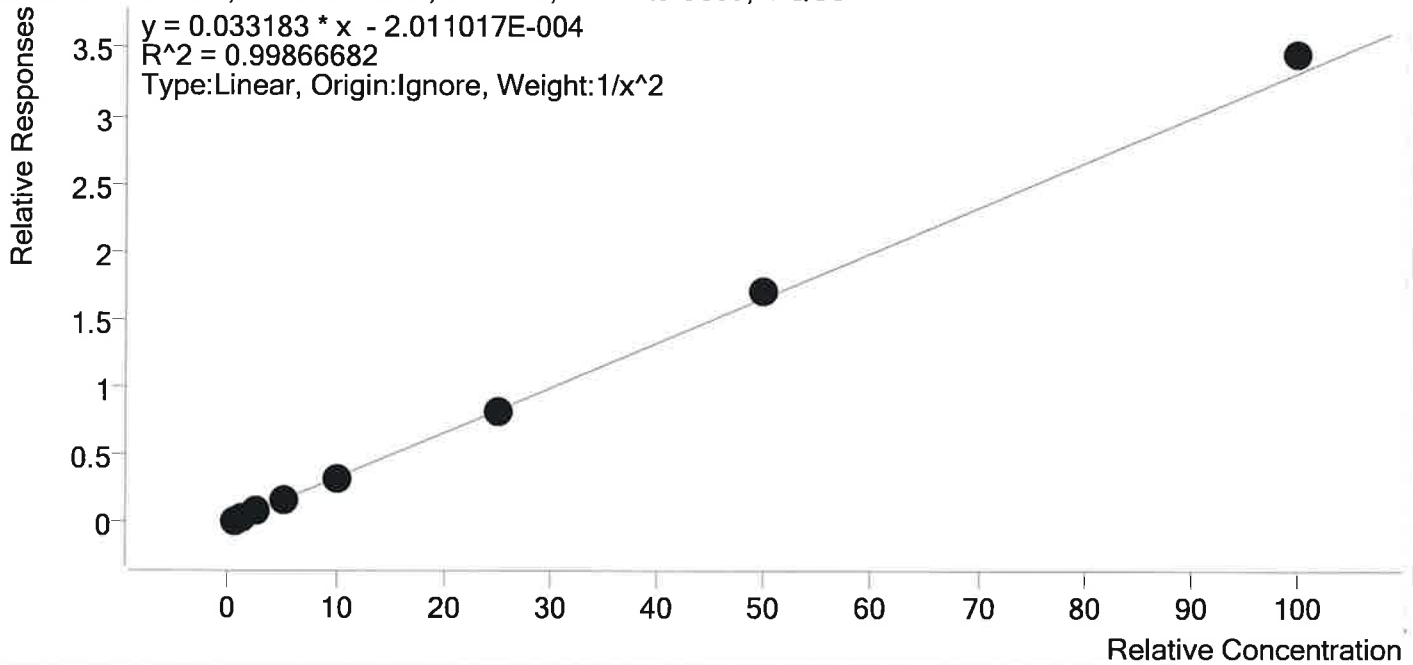
Outside Curve Range. To



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

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



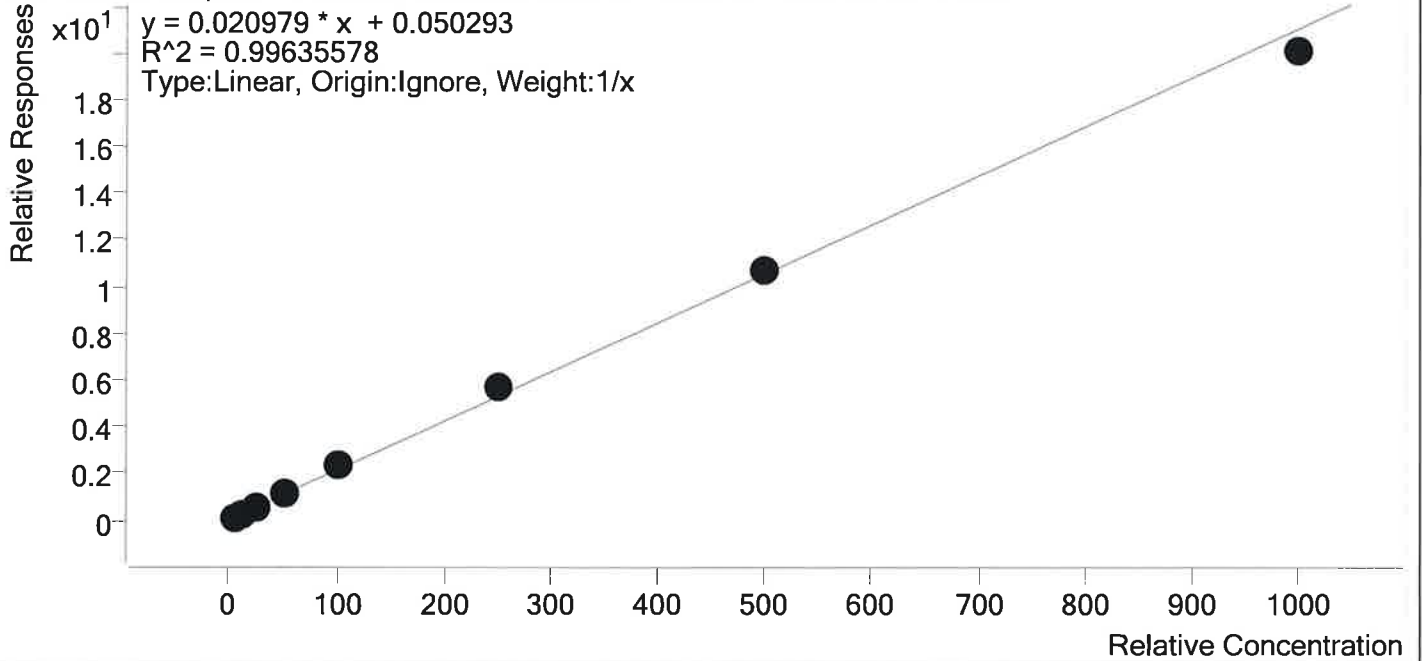
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	100.3
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.0
p1 Cal 4-50ng	4	✓	5.0	4.8	95.5
p1 Cal 5-100ng	5	✓	10.0	10.1	101.0
p1 Cal 6-250ng	6	✓	25.0	25.1	100.6
p1 Cal 7-500ng	7	✓	50.0	51.2	102.3
p1 Cal 8-1000ng	8	✓	100.0	104.1	104.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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



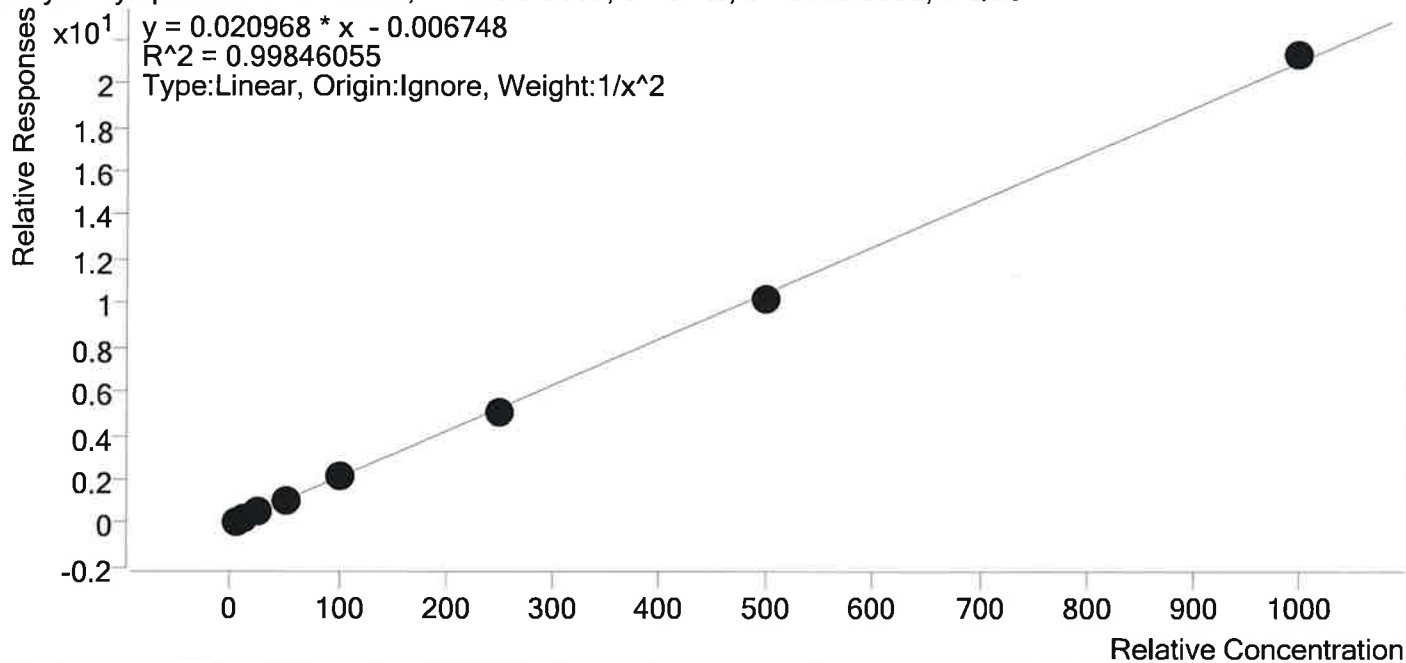
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.6	73.0
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.0
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	113.4	113.4
p1 Cal 6-250ng	6	✓	250.0	271.0	108.4
p1 Cal 7-500ng	7	✓	500.0	507.5	101.5
p1 Cal 8-1000ng	8	✓	1000.0	954.8	95.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	104.5	104.5
p1 Cal 6-250ng	6	✓	250.0	242.5	97.0
p1 Cal 7-500ng	7	✓	500.0	485.9	97.2
p1 Cal 8-1000ng	8	✓	1000.0	1015.7	101.6

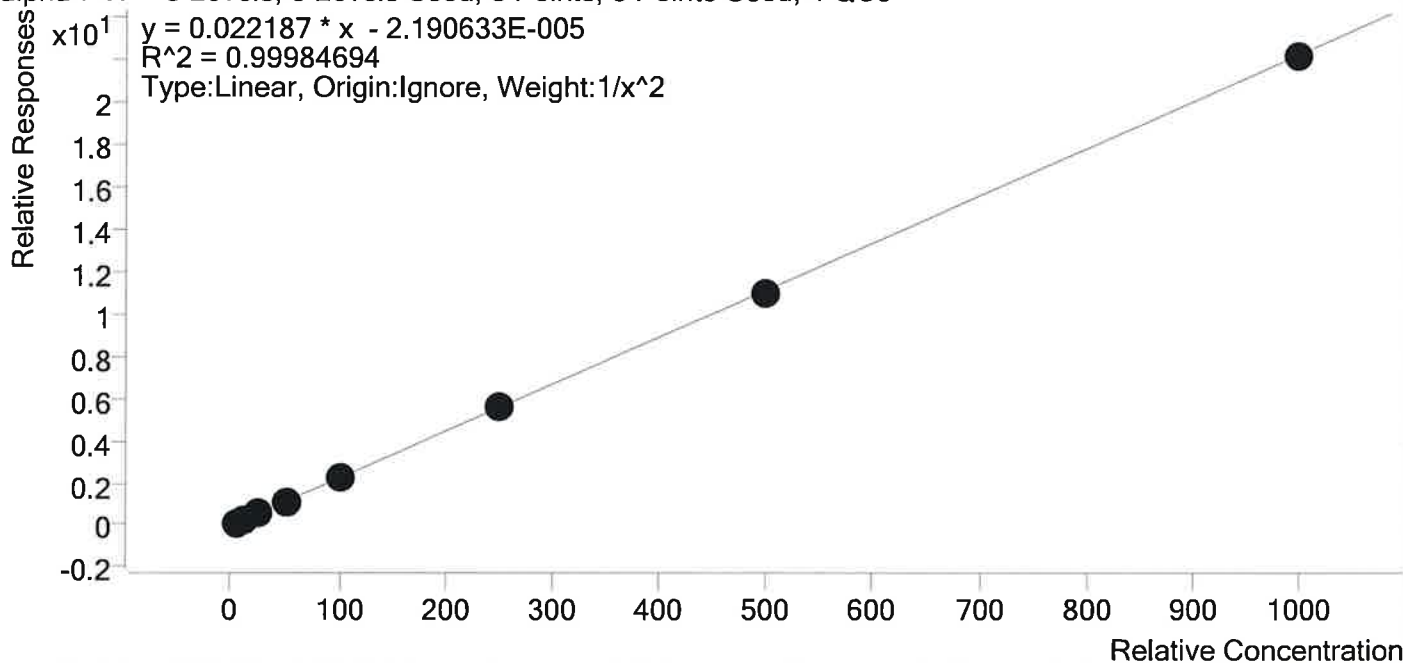




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 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



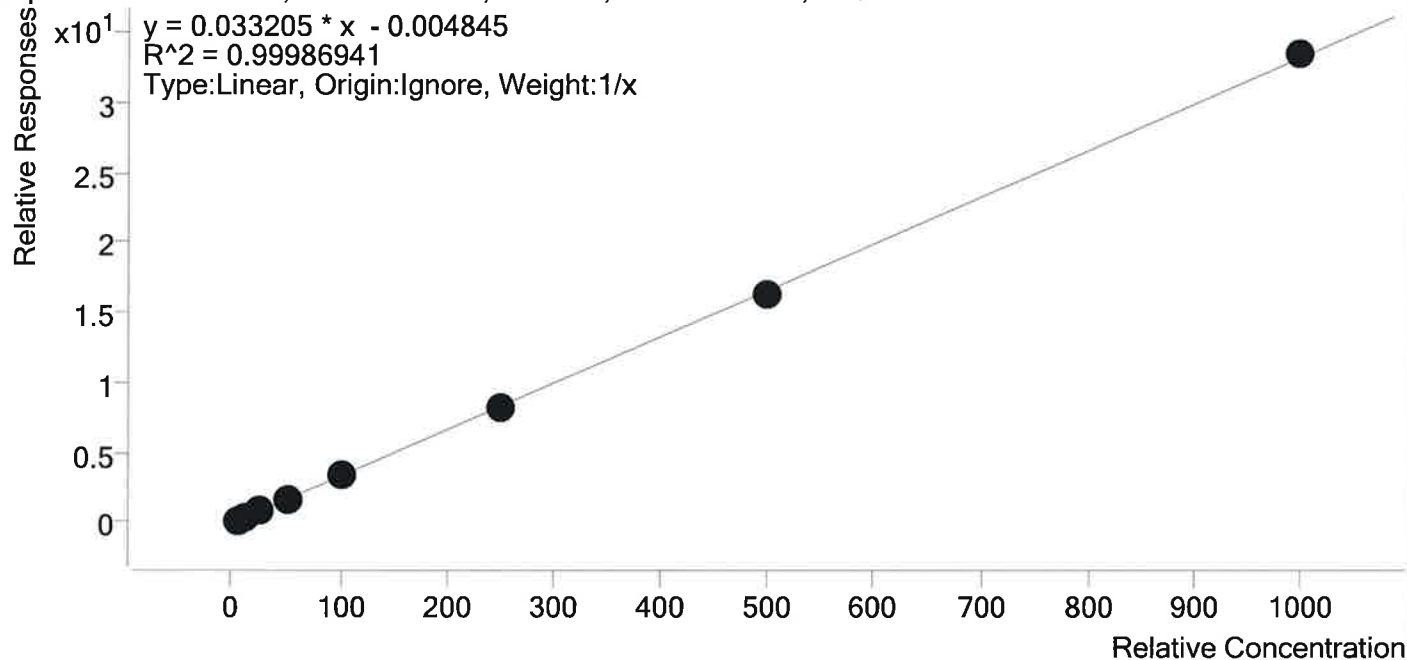
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	49.6	99.1
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	496.8	99.4
p1 Cal 8-1000ng	8	✓	1000.0	996.8	99.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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



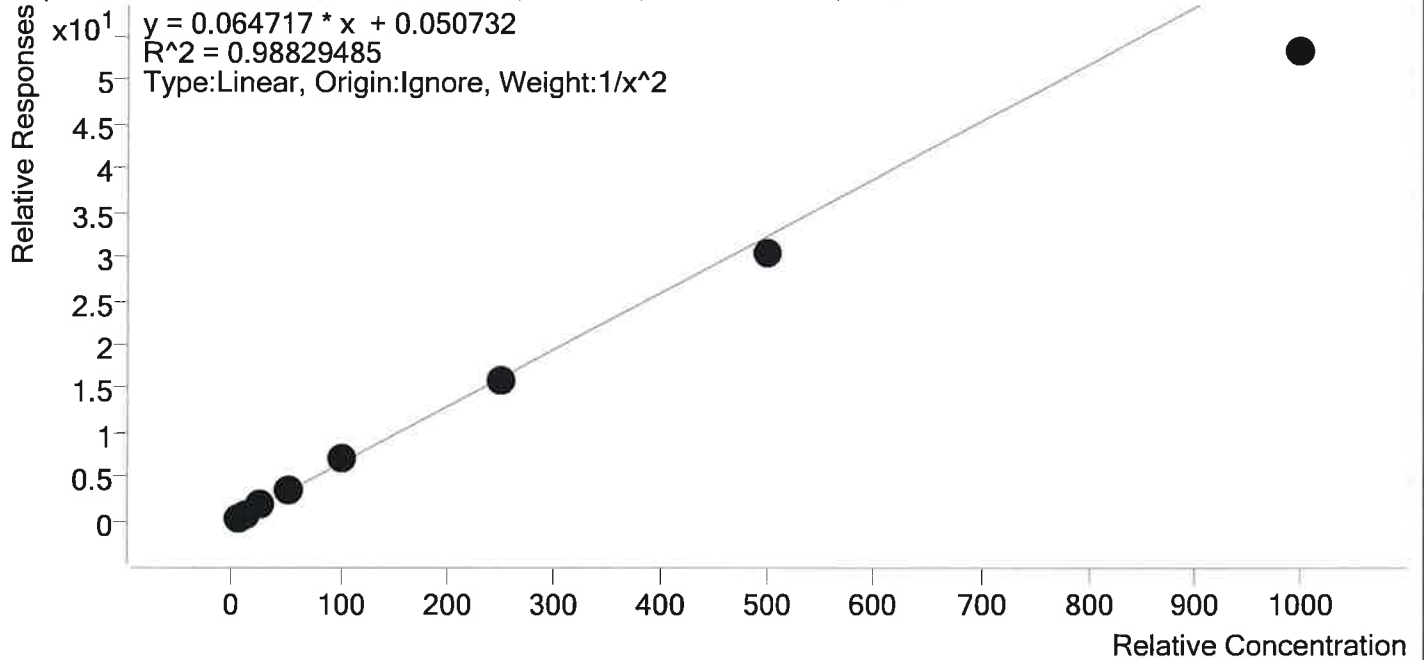
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	✓	250.0	246.4	98.6
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1008.9	100.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



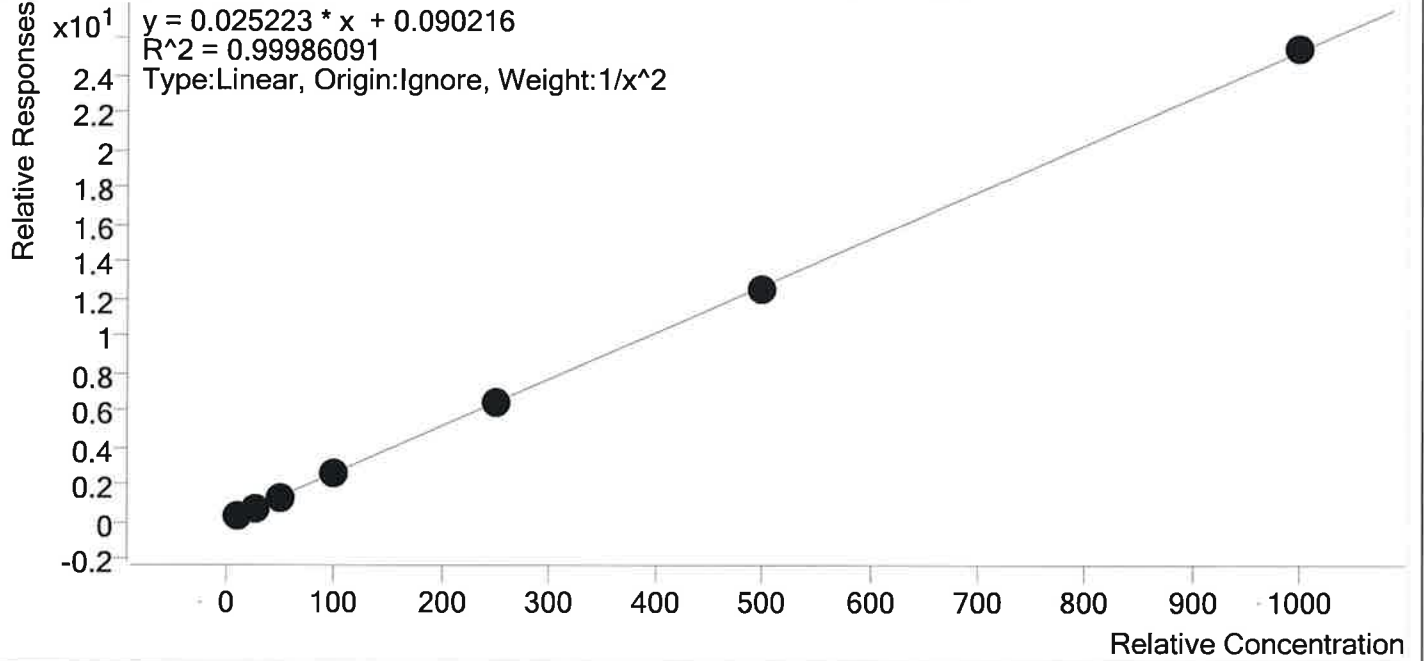
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.5
p1 Cal 4-50ng	4	✓	50.0	54.5	108.9
p1 Cal 5-100ng	5	✓	100.0	107.5	107.5
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	467.2	93.4
p1 Cal 8-1000ng	8	✓	1000.0	823.5	82.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8

Benzoyllecgonine - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 4 QCs



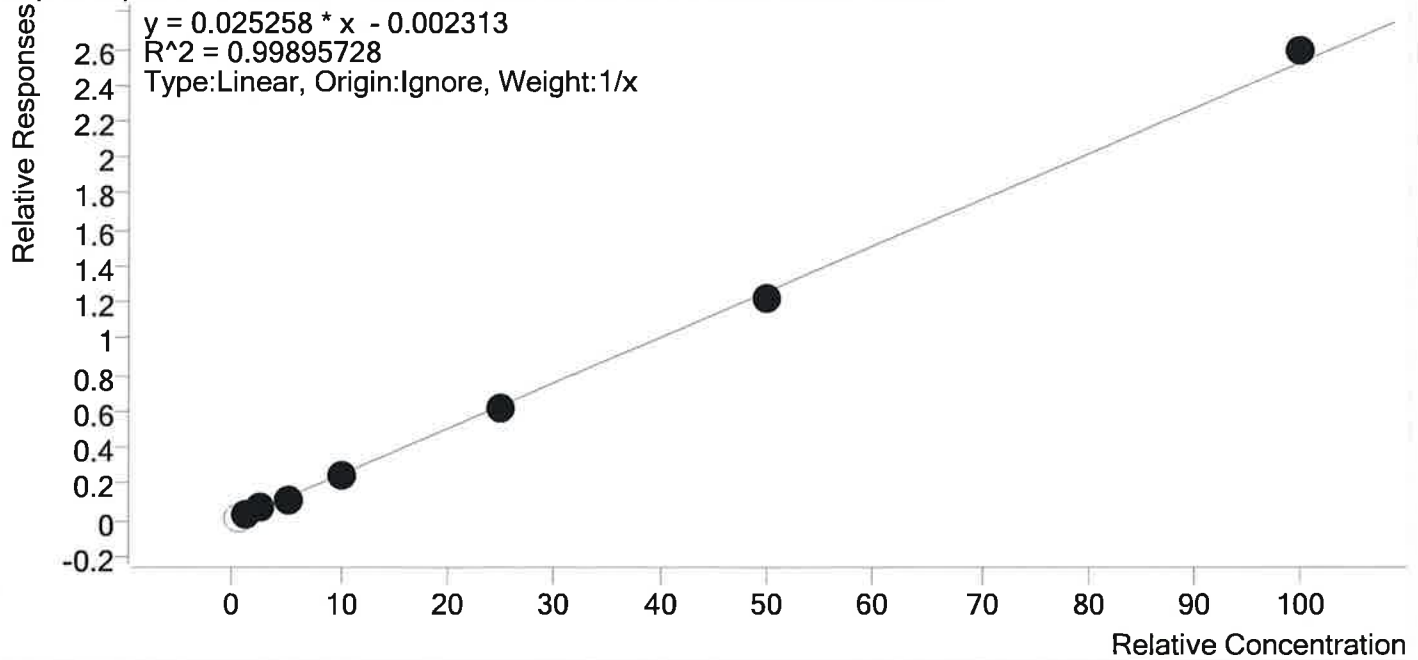
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	1005.1	100.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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



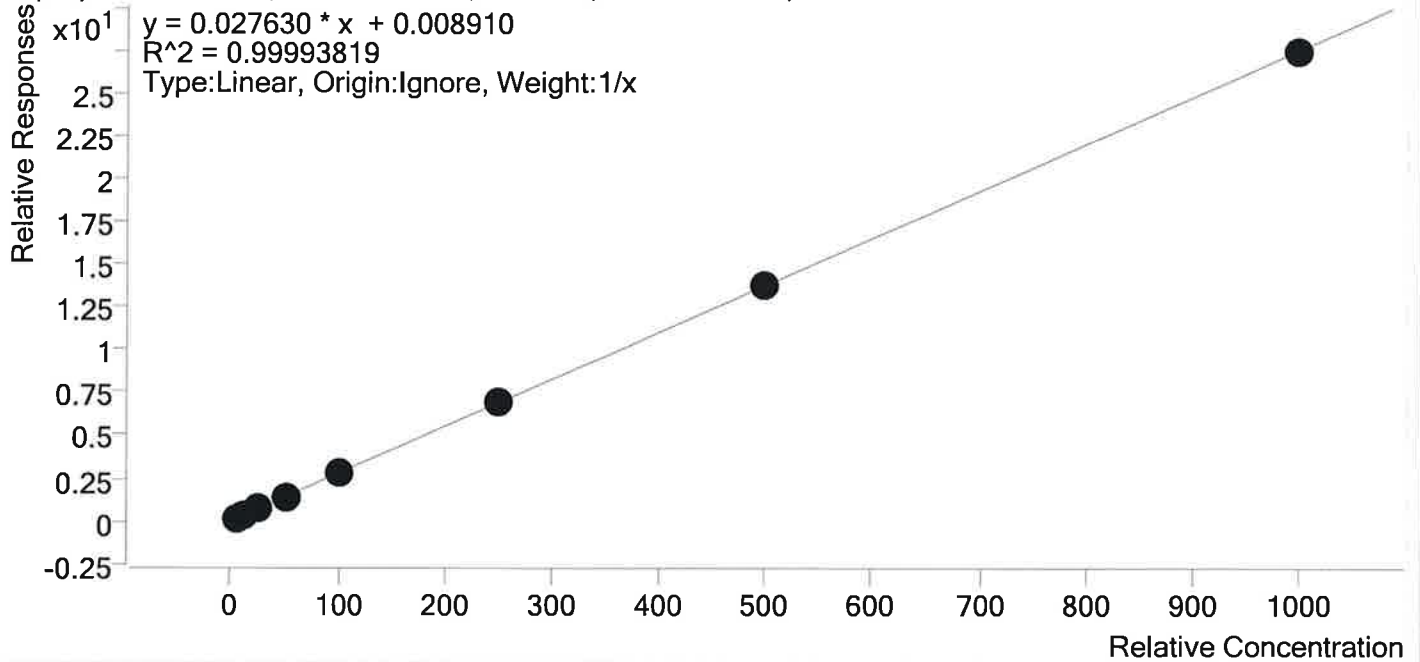
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	0.5	0.7	136.4
p1 Cal 2- 10ng	2	✓	1.0	1.1	110.6
p1 Cal 3 -25ng	3	✓	2.5	2.6	102.9
p1 Cal 4-50ng	4	✓	5.0	4.6	92.6
p1 Cal 5-100ng	5	✓	10.0	9.7	96.9
p1 Cal 6-250ng	6	✓	25.0	24.2	96.9
p1 Cal 7-500ng	7	✓	50.0	48.7	97.4
p1 Cal 8-1000ng	8	✓	100.0	102.6	102.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 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	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.2	100.3
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	500.1	100.0
p1 Cal 8-1000ng	8	✓	1000.0	996.8	99.7



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

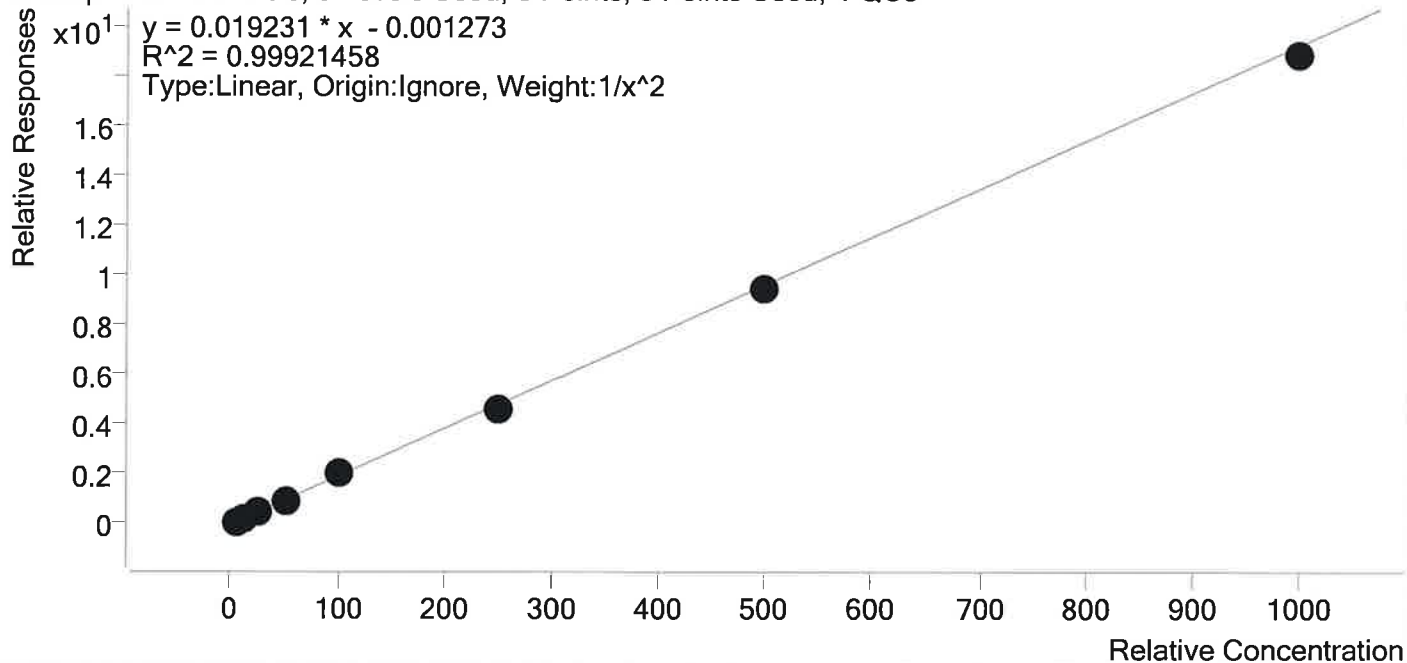
**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin

**Last Cal. Update** 7/12/2019 1:49 PM

**Analyst Name** ISP\datastor

**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



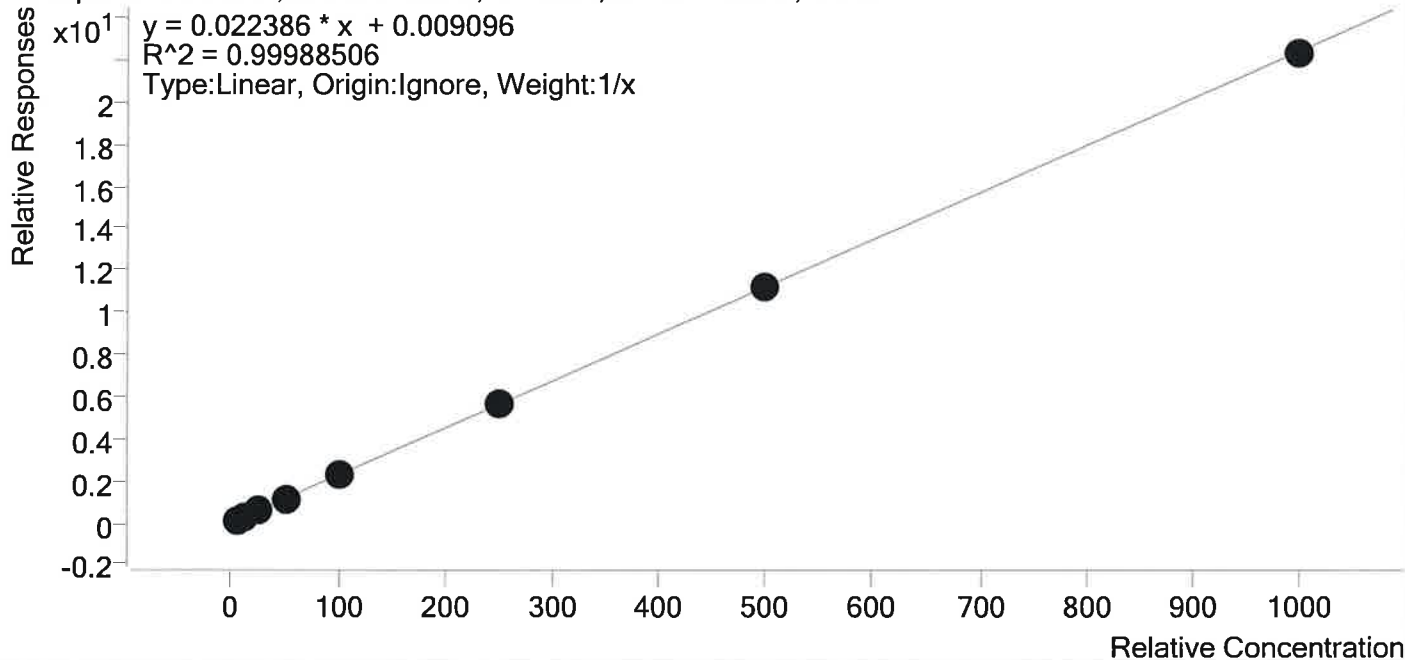
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.6
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	243.7	97.5
p1 Cal 7-500ng	7	✓	500.0	493.4	98.7
p1 Cal 8-1000ng	8	✓	1000.0	979.2	97.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

Citalopram - 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	92.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	253.9	101.5
p1 Cal 7-500ng	7	✓	500.0	497.6	99.5
p1 Cal 8-1000ng	8	✓	1000.0	995.4	99.5

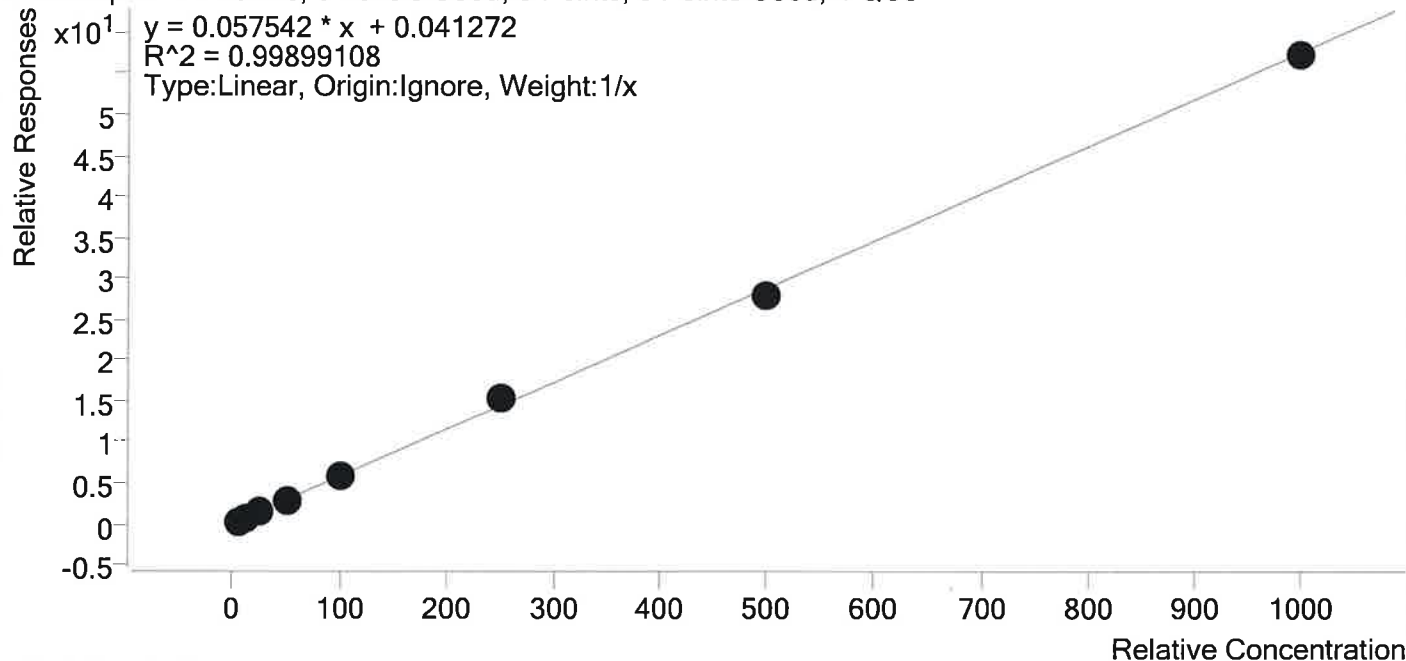




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

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



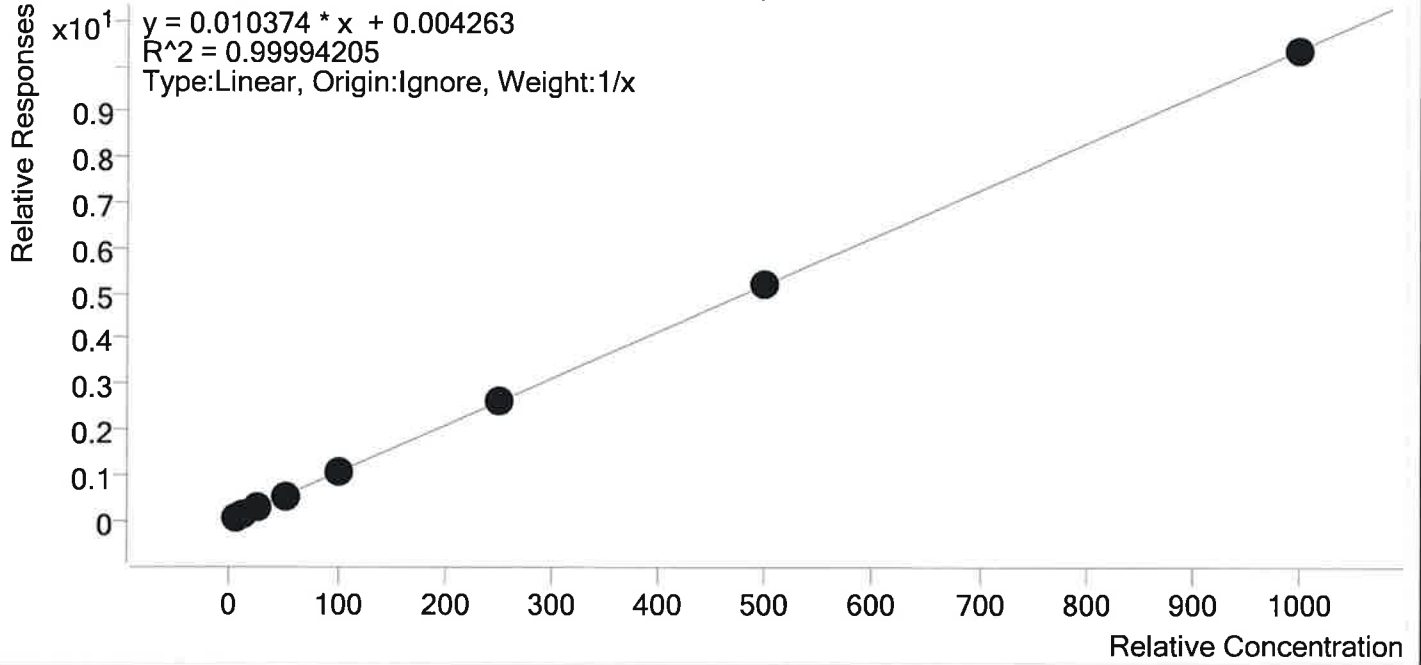
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.3
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.8
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	267.3	106.9
p1 Cal 7-500ng	7	✓	500.0	485.2	97.0
p1 Cal 8-1000ng	8	✓	1000.0	994.5	99.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklst 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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



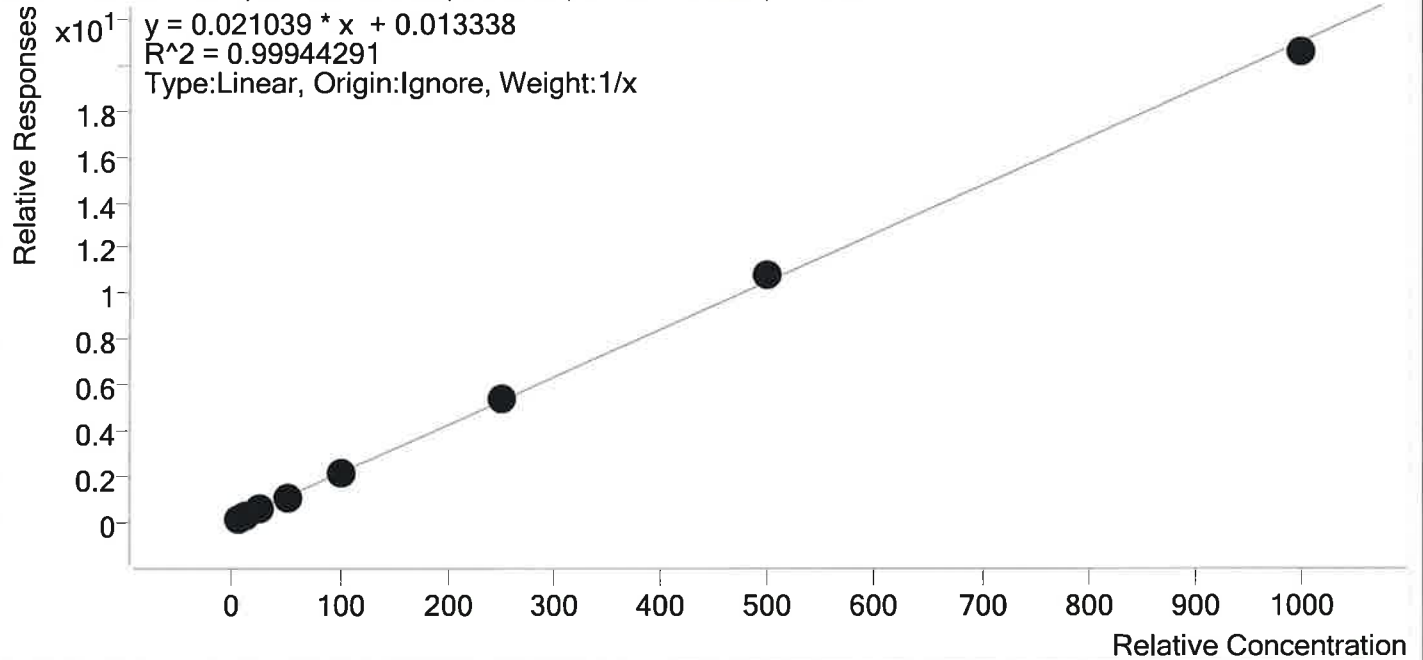
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	498.3	99.7
p1 Cal 8-1000ng	8	✓	1000.0	997.6	99.8



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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



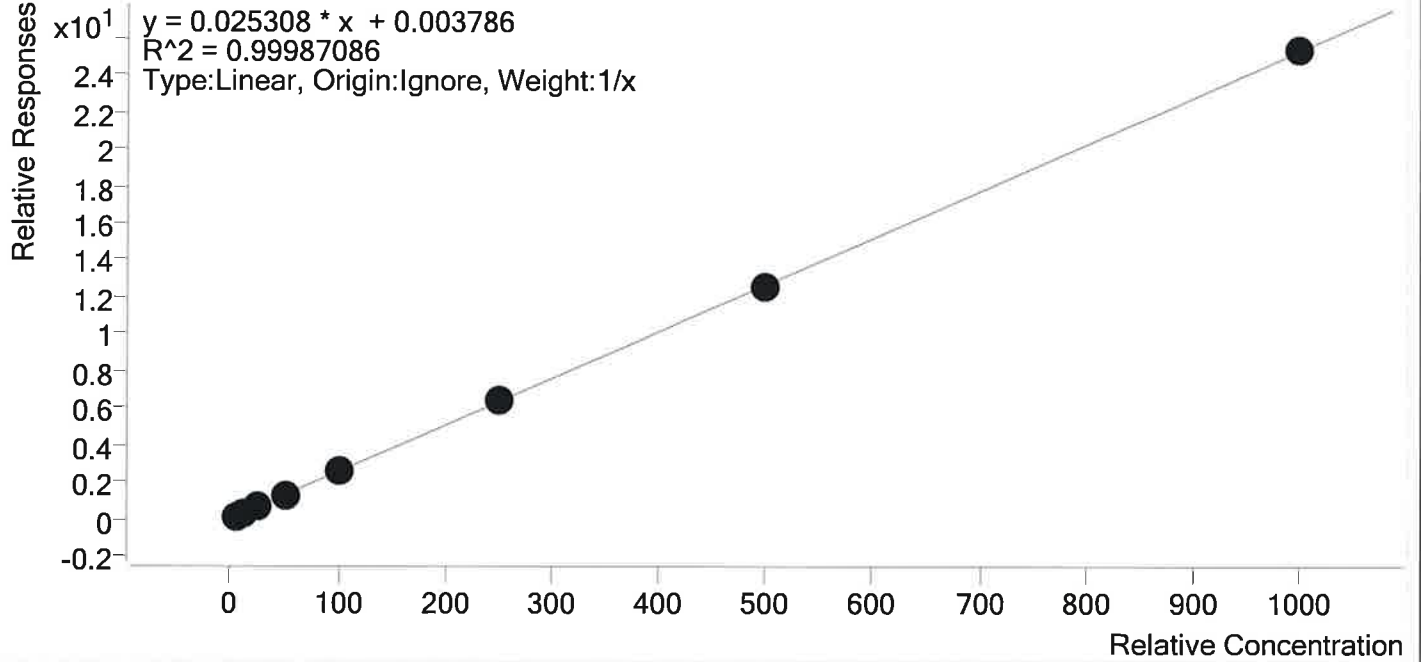
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	50.4	100.9
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	255.9	102.3
p1 Cal 7-500ng	7	✓	500.0	511.6	102.3
p1 Cal 8-1000ng	8	✓	1000.0	979.1	97.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



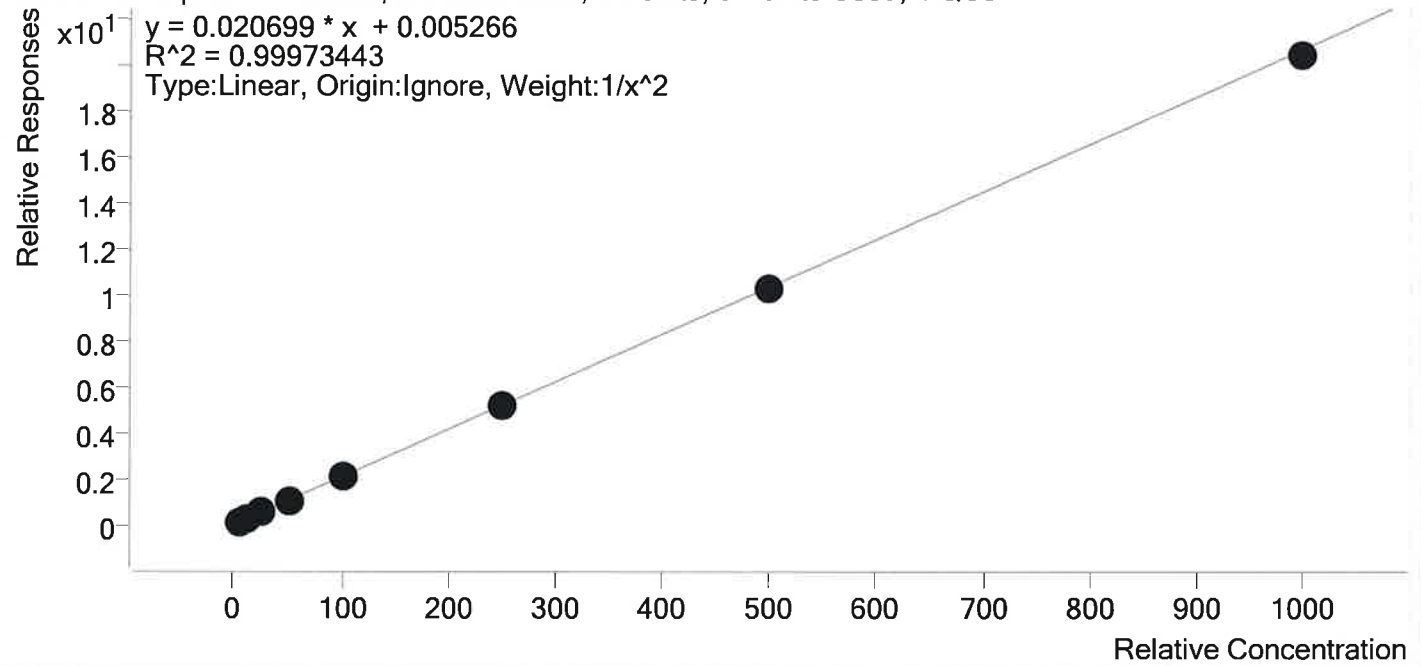
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	493.2	98.6
p1 Cal 8-1000ng	8	✓	1000.0	1002.4	100.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

Dextromethorphan - 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	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	496.0	99.2
p1 Cal 8-1000ng	8	✓	1000.0	987.8	98.8



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

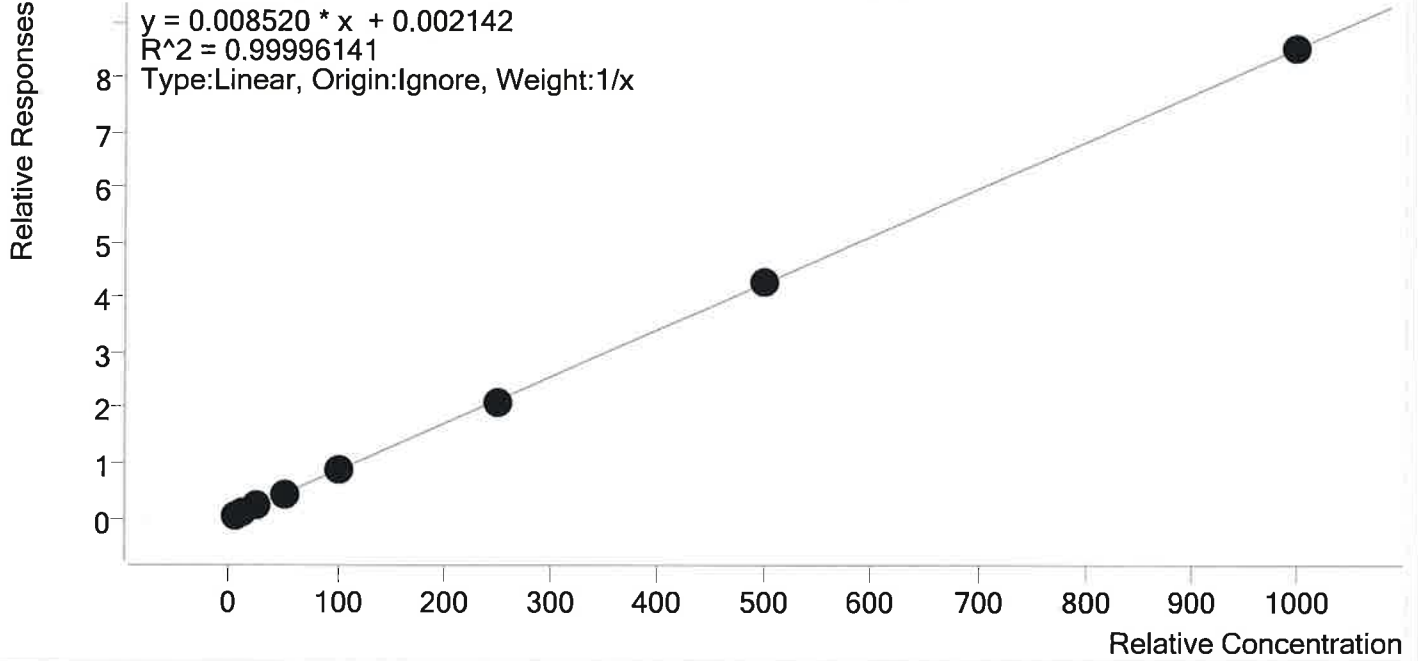
**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
TS\_correct.batch.bin

**Last Cal. Update** 7/12/2019 1:49 PM

**Analyst Name** ISP\datastor

**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

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



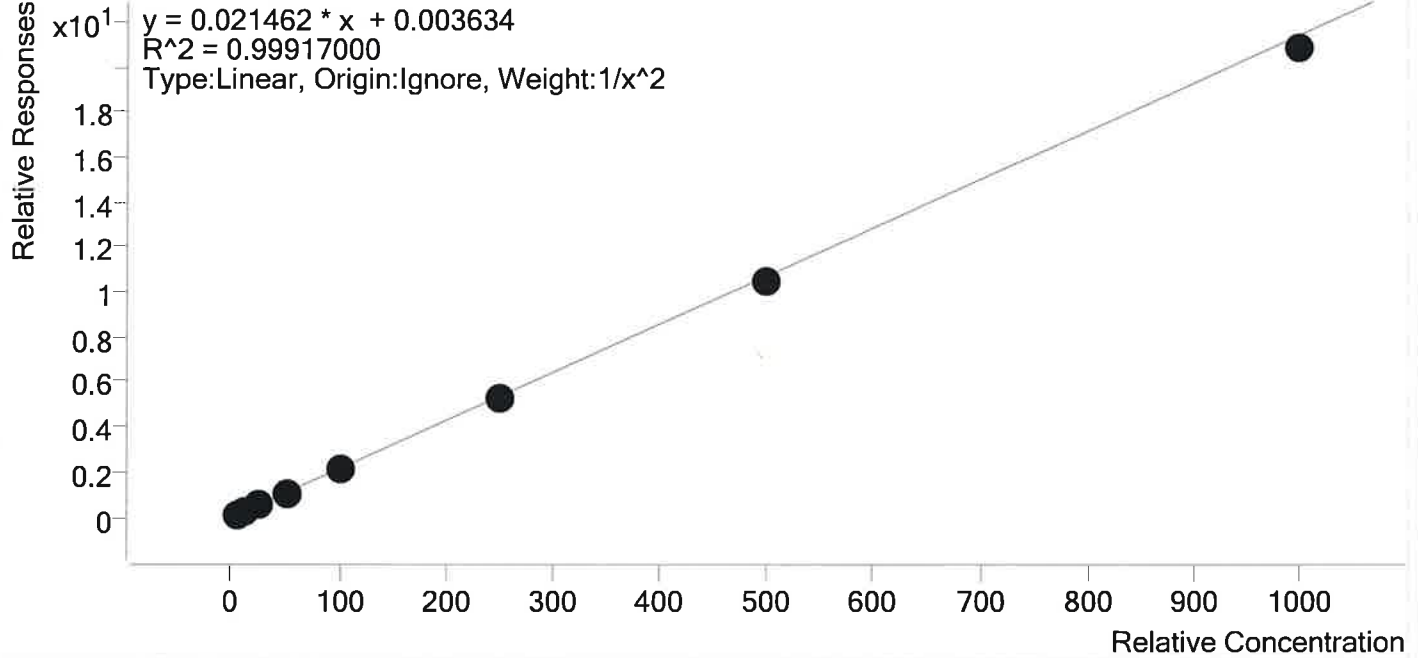
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	999.8	100.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 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
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	247.4	98.9
p1 Cal 7-500ng	7	✓	500.0	490.2	98.0
p1 Cal 8-1000ng	8	✓	1000.0	973.0	97.3



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

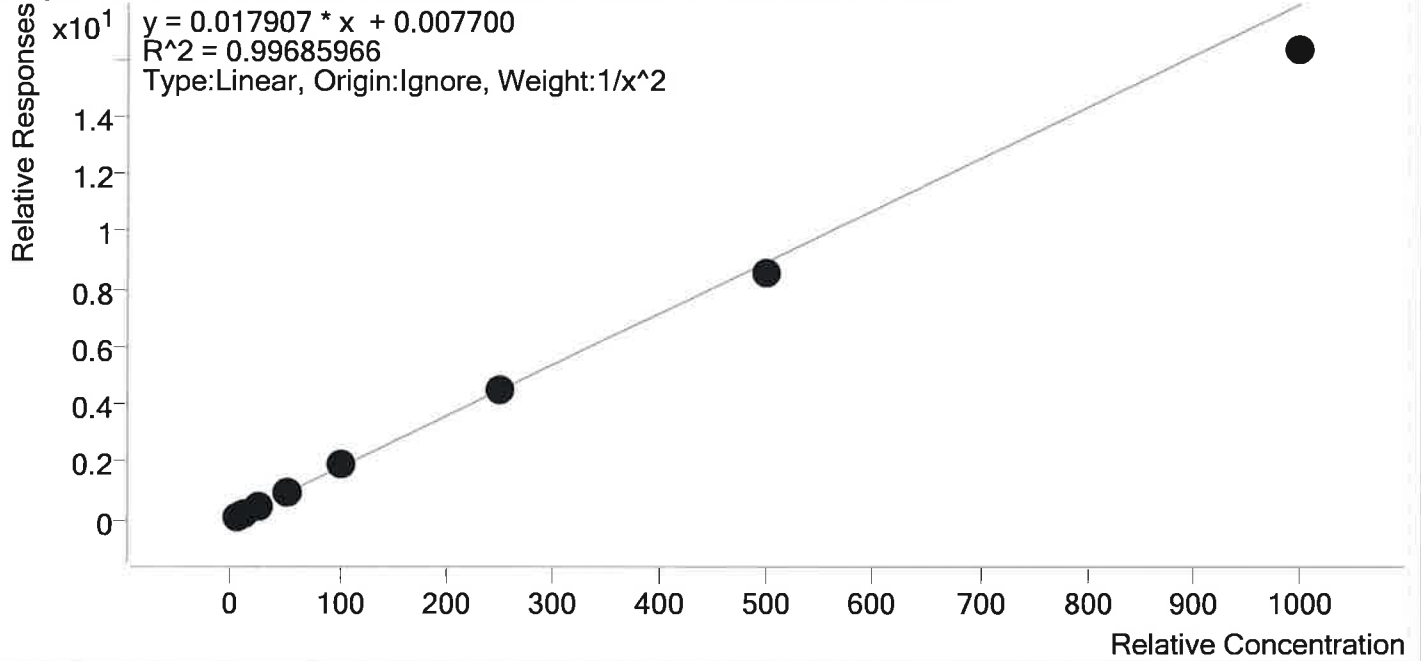
**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
TS\_correct.batch.bin

**Last Cal. Update** 7/12/2019 1:49 PM

**Analyst Name** ISP\datastor

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

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



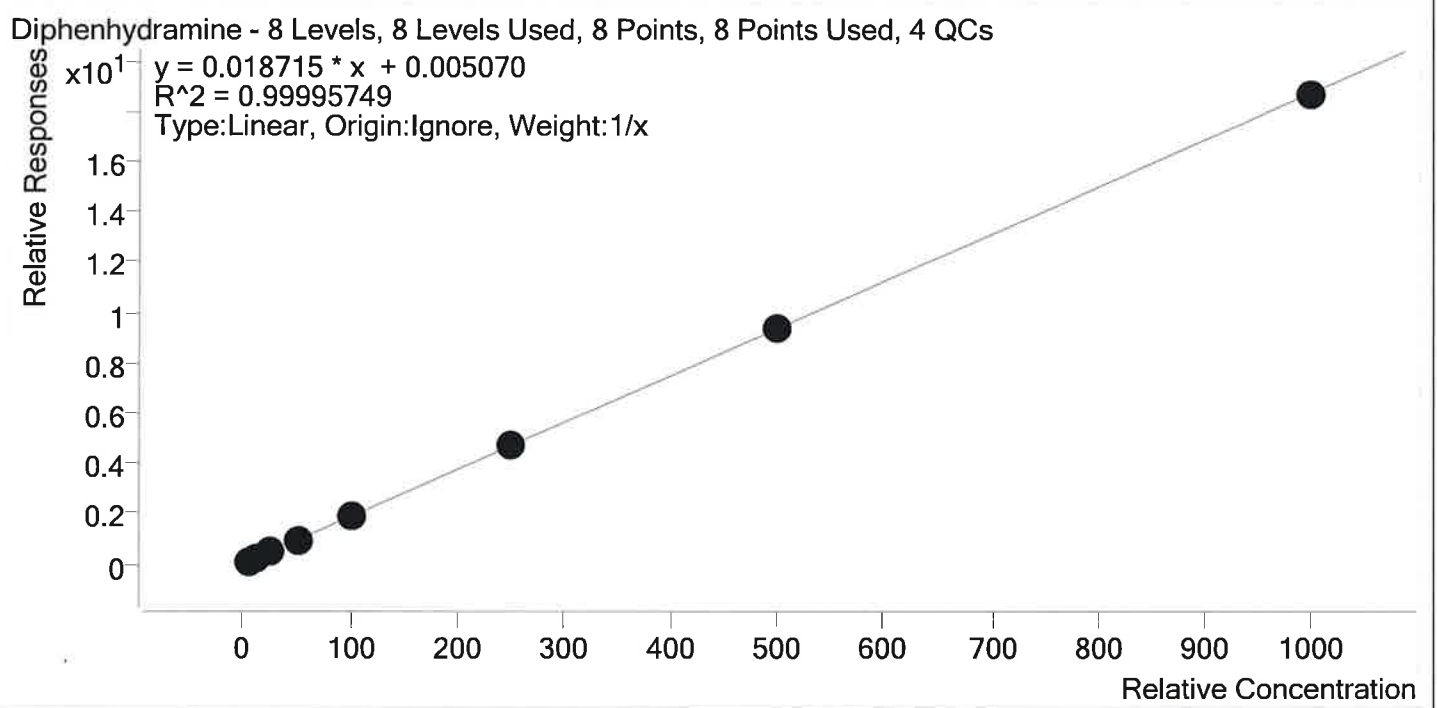
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	481.1	96.2
p1 Cal 8-1000ng	8	✓	1000.0	911.4	91.1





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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklst 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3



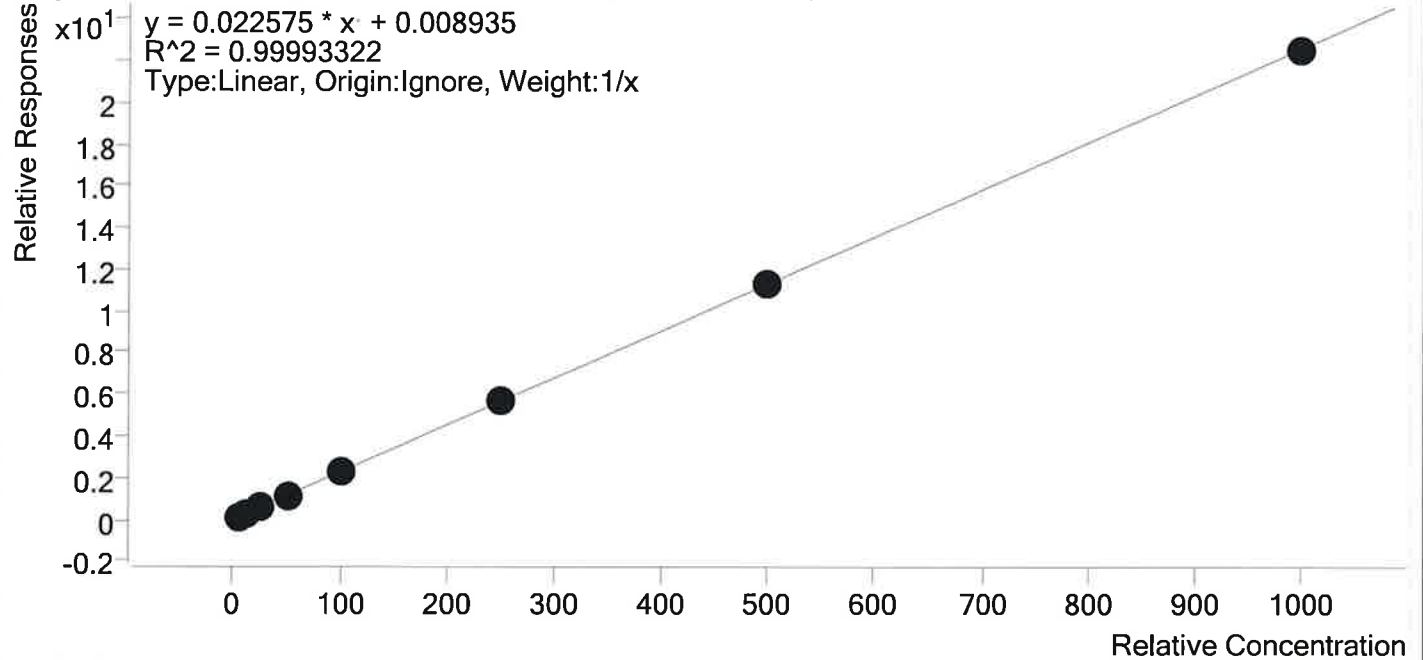
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	501.0	100.2
p1 Cal 8-1000ng	8	✓	1000.0	996.0	99.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



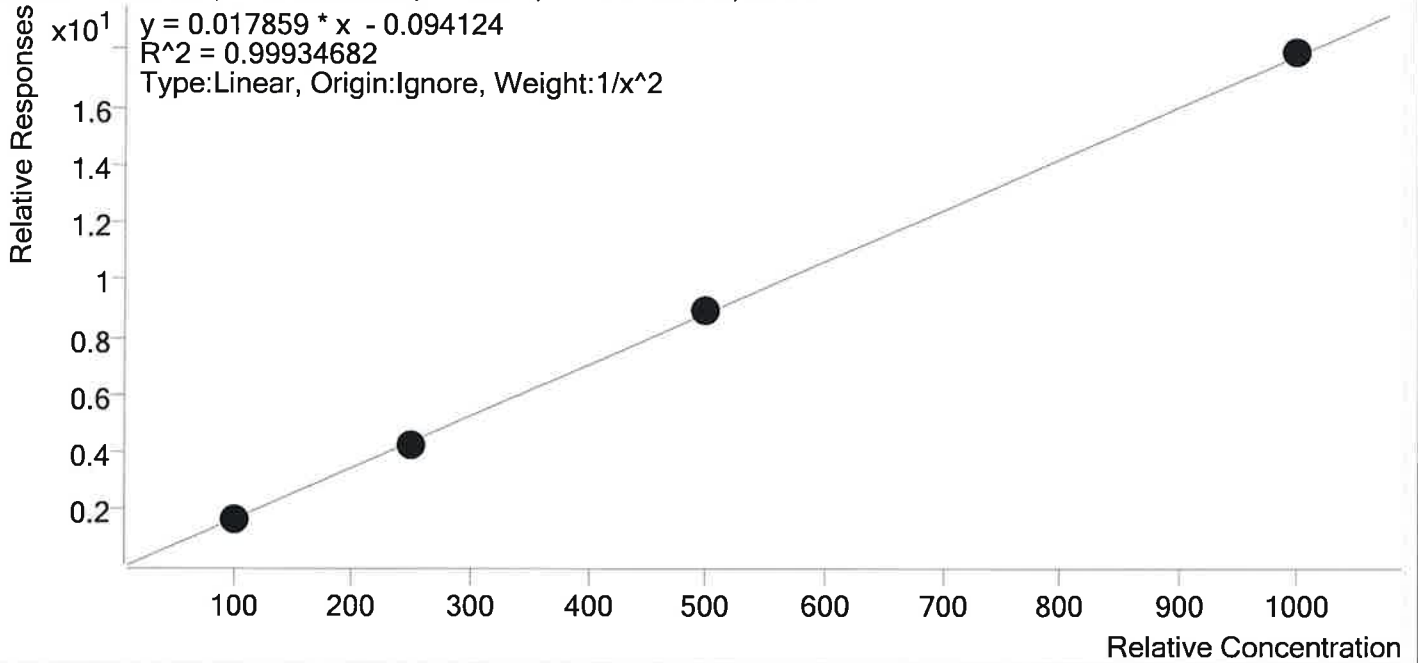
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	499.0	99.8
p1 Cal 8-1000ng	8	✓	1000.0	996.0	99.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

EDDP - 4 Levels, 4 Levels Used, 4 Points, 4 Points Used, 3 QCs



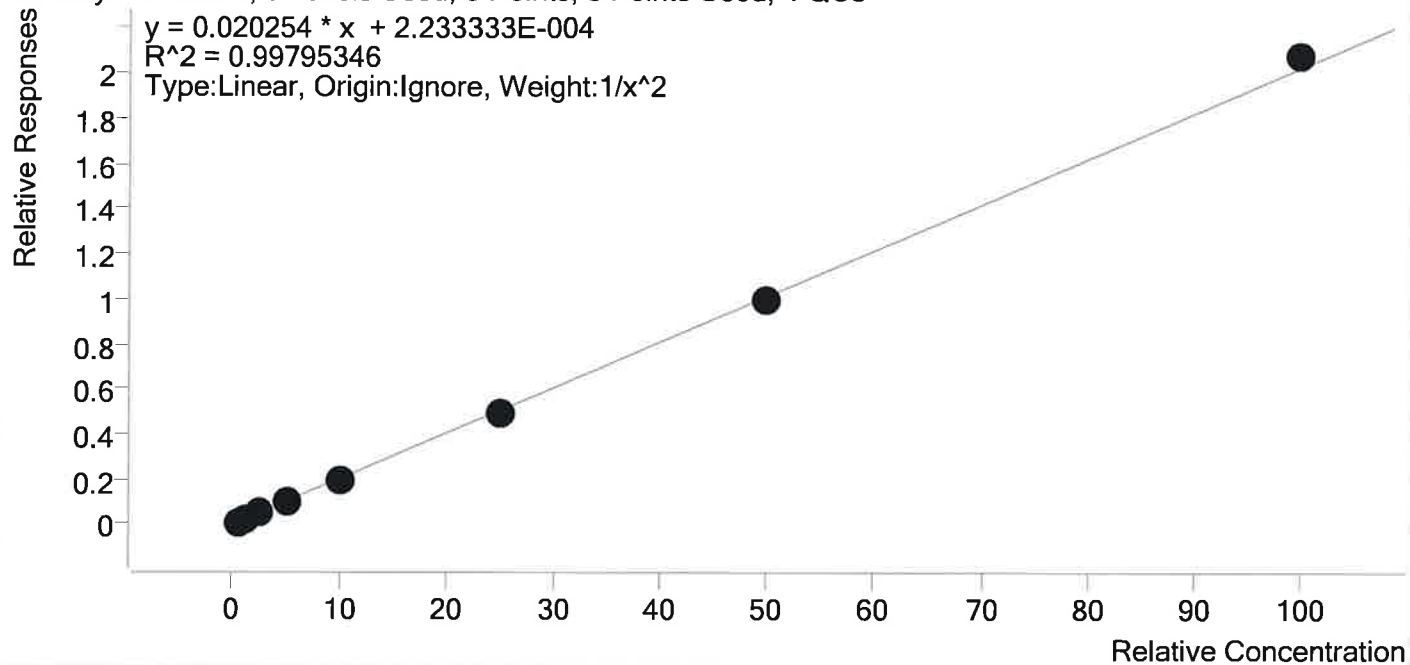
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	506.4	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1007.1	100.7

*\* Compound not evaluated. - TS*  
*Variable Internal Standard response.*

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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

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



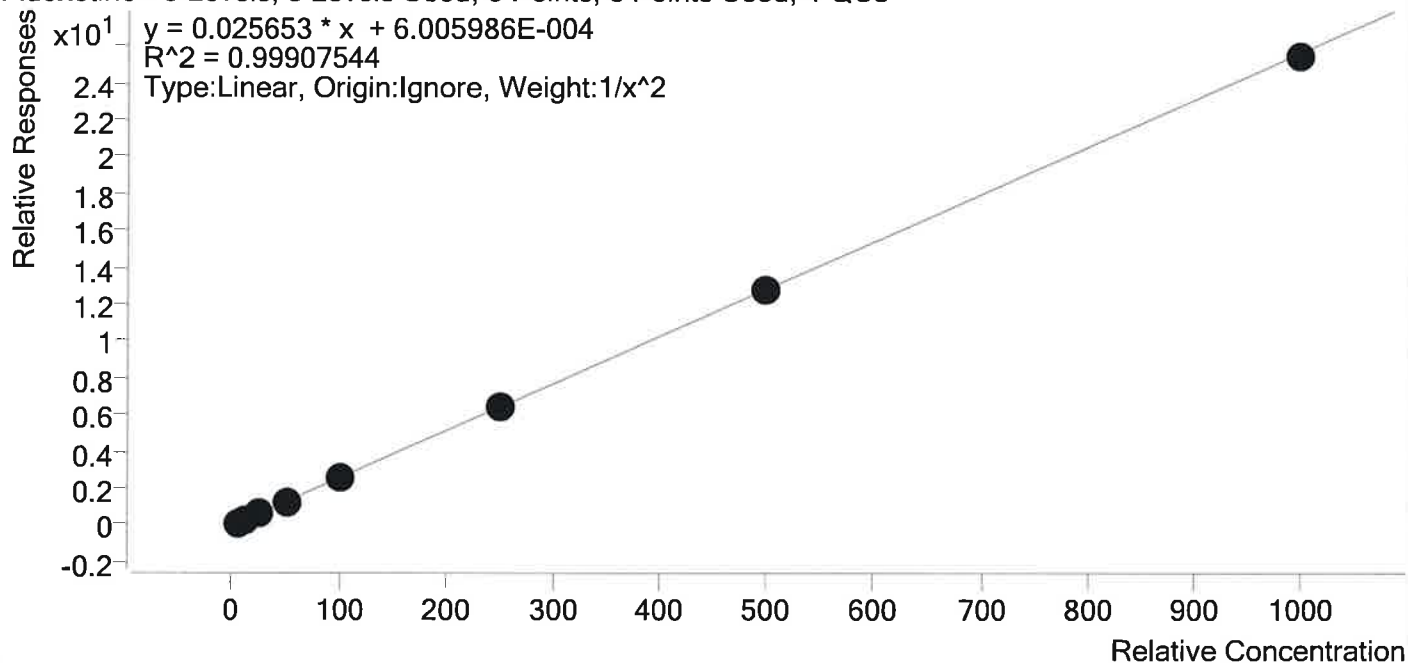
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	96.7
p1 Cal 2- 10ng	2	✓	1.0	1.1	108.3
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.1
p1 Cal 4-50ng	4	✓	5.0	5.0	99.8
p1 Cal 5-100ng	5	✓	10.0	10.0	100.2
p1 Cal 6-250ng	6	✓	25.0	24.4	97.6
p1 Cal 7-500ng	7	✓	50.0	49.4	98.8
p1 Cal 8-1000ng	8	✓	100.0	102.6	102.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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



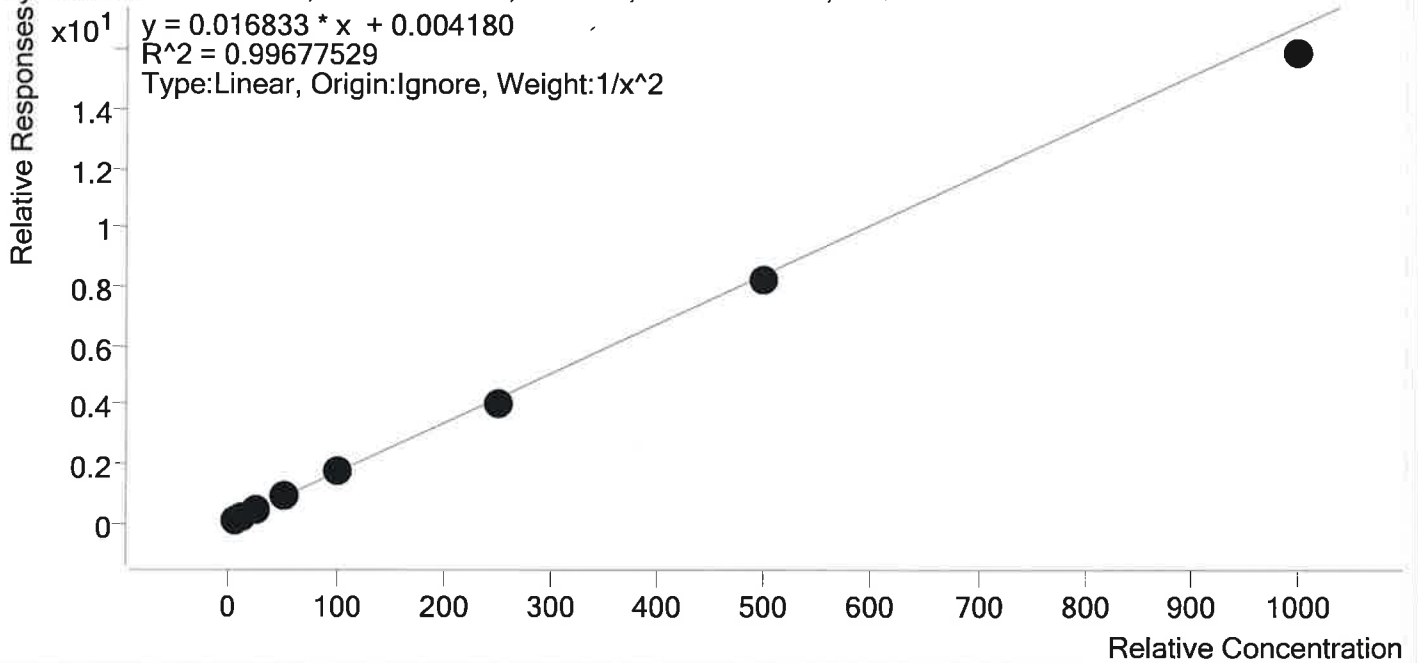
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	248.9	99.6
p1 Cal 7-500ng	7	✓	500.0	495.9	99.2
p1 Cal 8-1000ng	8	✓	1000.0	992.0	99.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



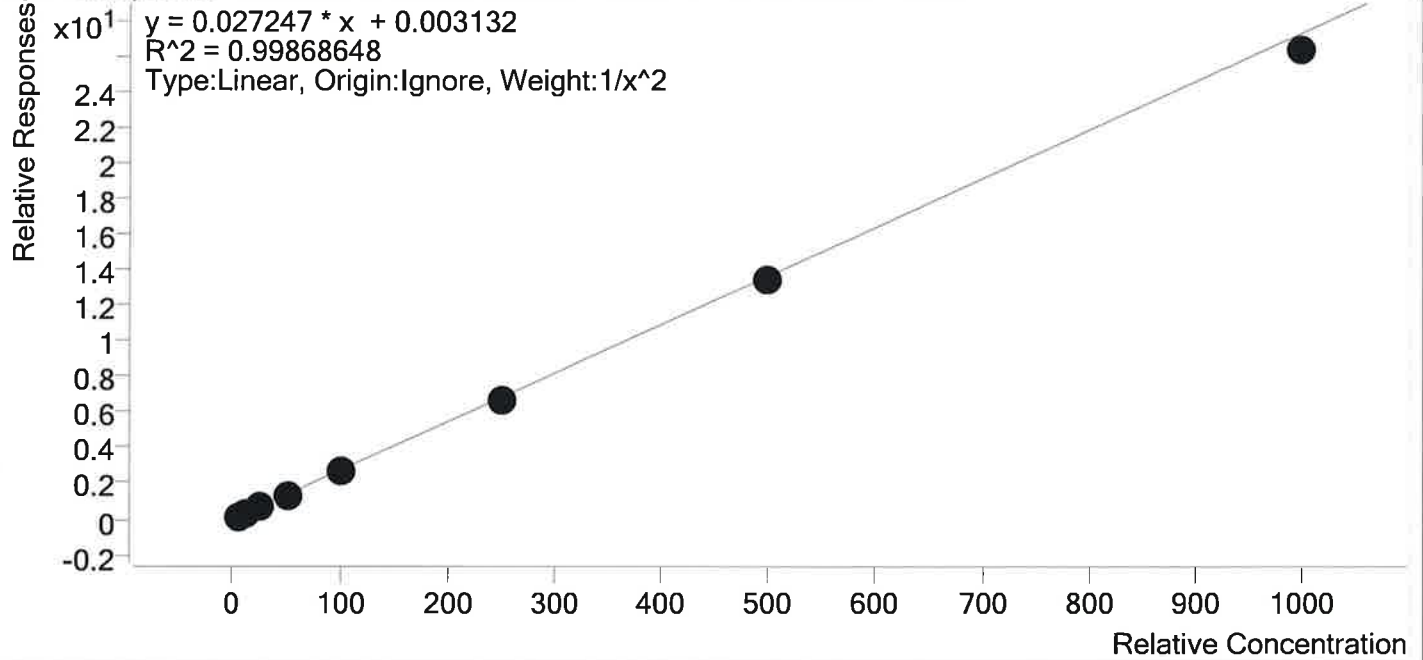
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.8	108.0
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	50.7	101.5
p1 Cal 5-100ng	5	✓	100.0	105.6	105.6
p1 Cal 6-250ng	6	✓	250.0	239.5	95.8
p1 Cal 7-500ng	7	✓	500.0	490.5	98.1
p1 Cal 8-1000ng	8	✓	1000.0	945.4	94.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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



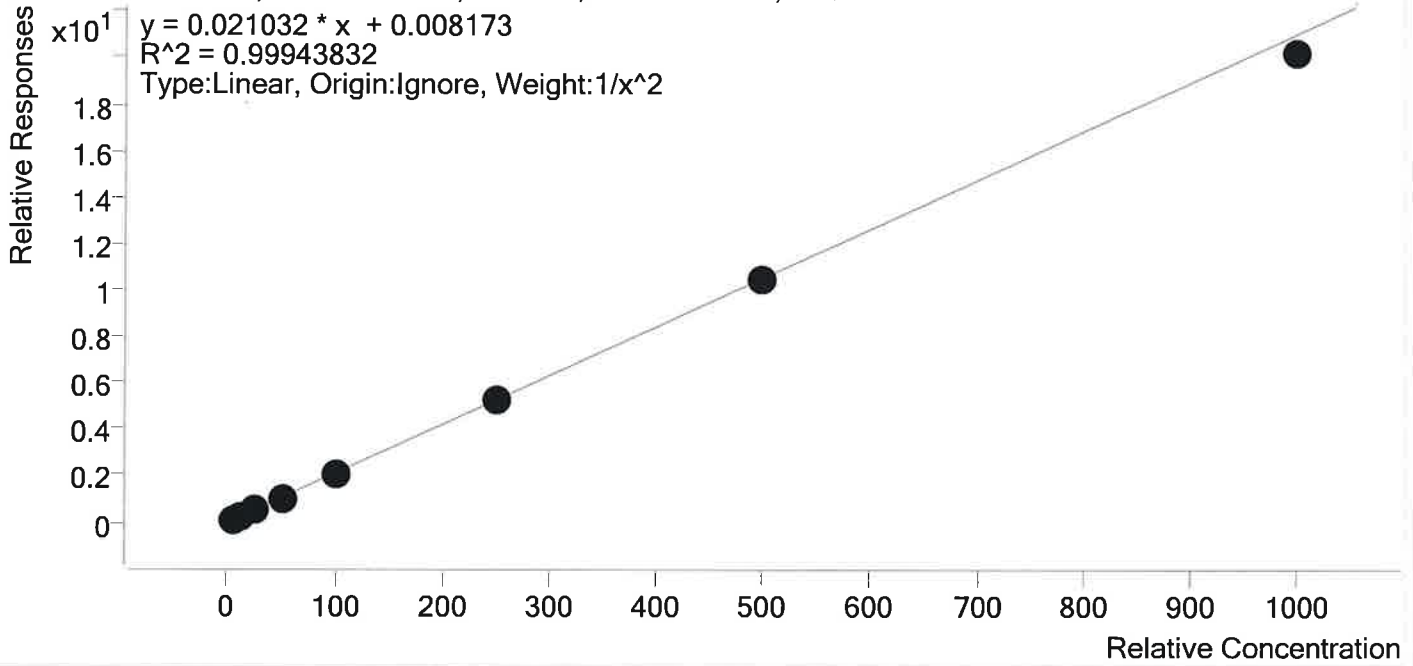
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.7
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.8
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	489.4	97.9
p1 Cal 8-1000ng	8	✓	1000.0	965.7	96.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	250.0	100.0
p1 Cal 7-500ng	7	✓	500.0	496.0	99.2
p1 Cal 8-1000ng	8	✓	1000.0	960.2	96.0

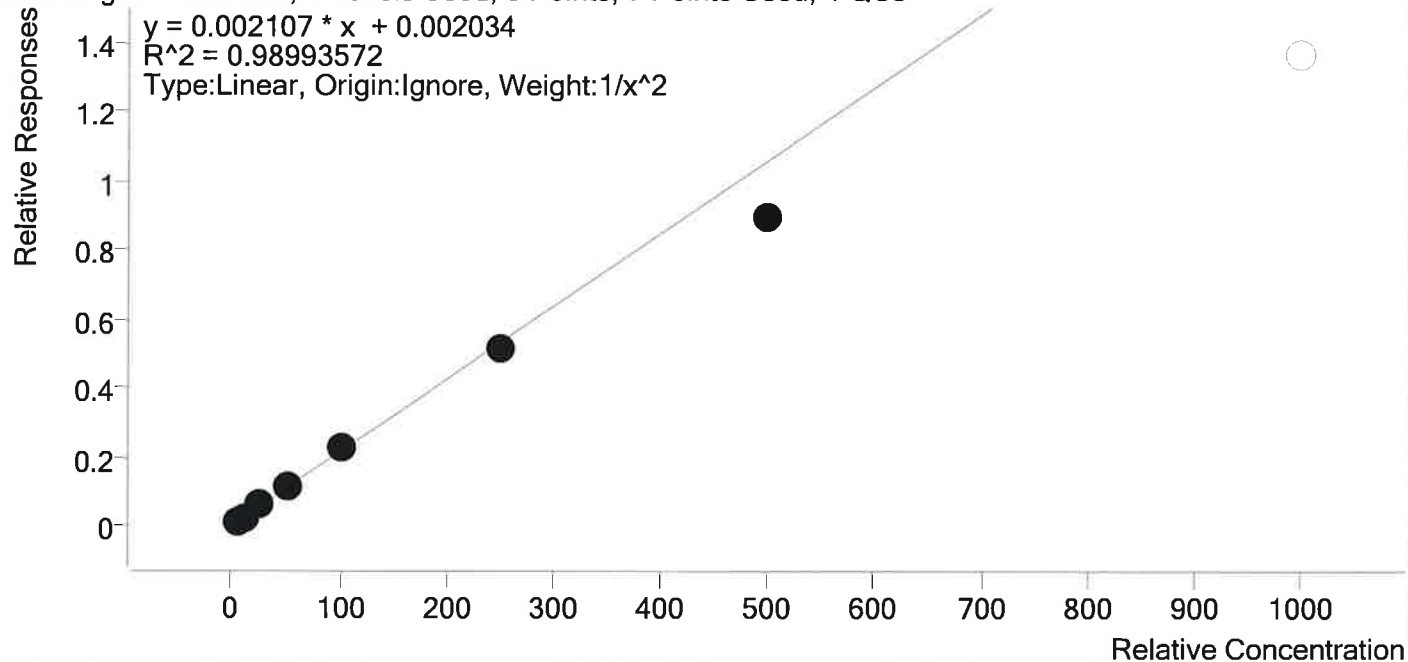




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

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



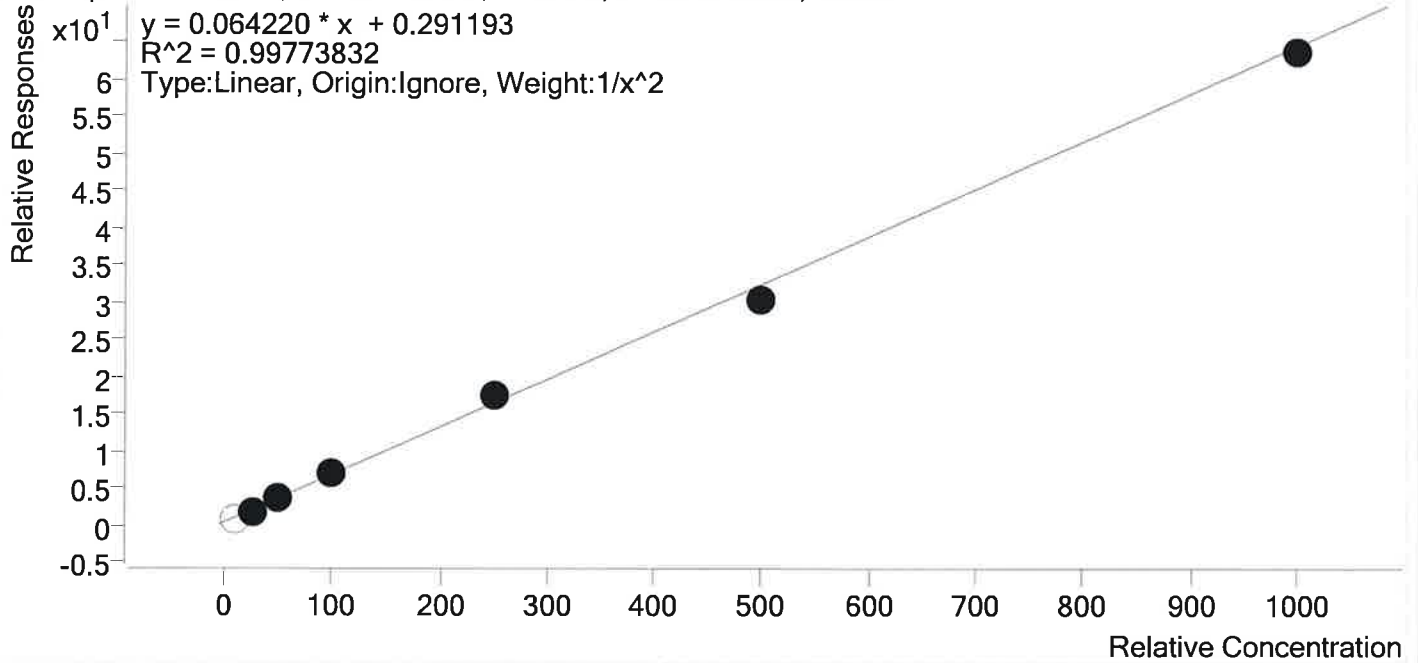
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.5
p1 Cal 4-50ng	4	✓	50.0	52.0	104.1
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	241.0	96.4
p1 Cal 7-500ng	7	✓	500.0	423.3	84.7
p1 Cal 8-1000ng	8	×	1000.0	645.7	64.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

Lorazepam - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	×	10.0	7.9	78.9
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.6
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	263.8	105.5
p1 Cal 7-500ng	7	✓	500.0	470.8	94.2
p1 Cal 8-1000ng	8	✓	1000.0	987.0	98.7



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

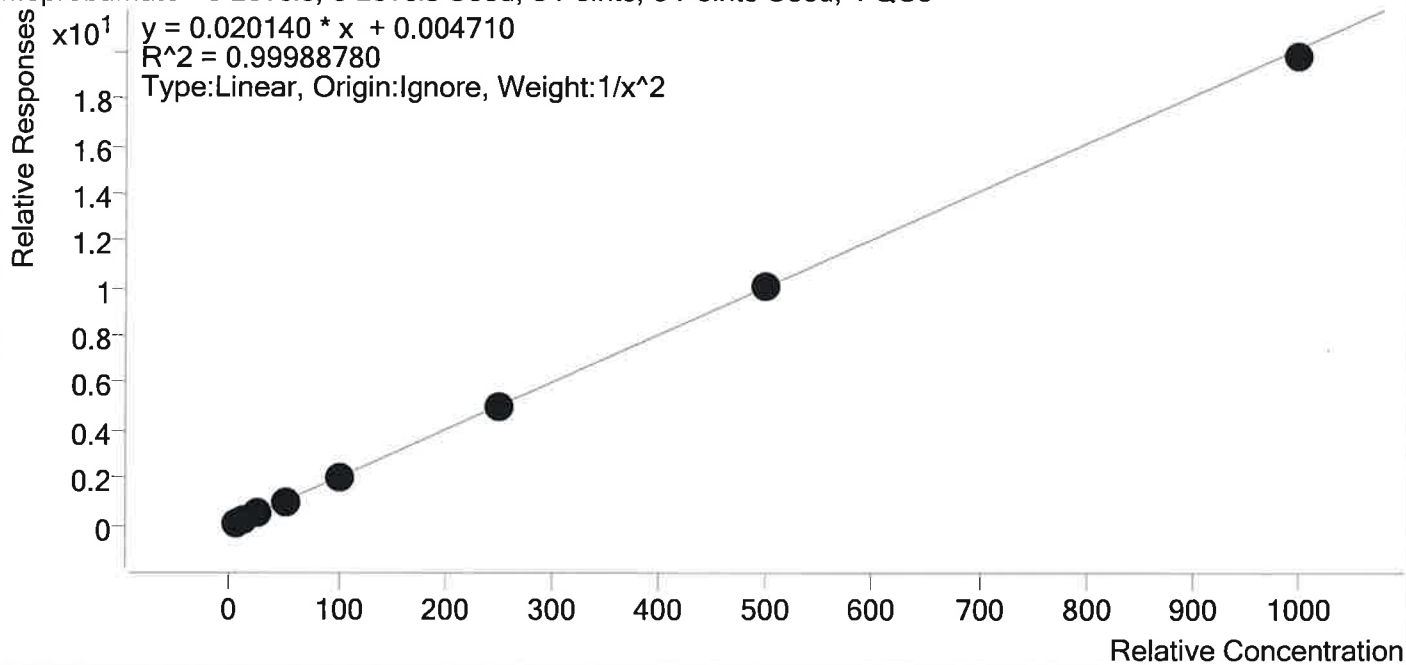
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 TS\_correct.batch.bin

**Last Cal. Update** 7/12/2019 1:49 PM

**Analyst Name** ISP\datastor

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

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



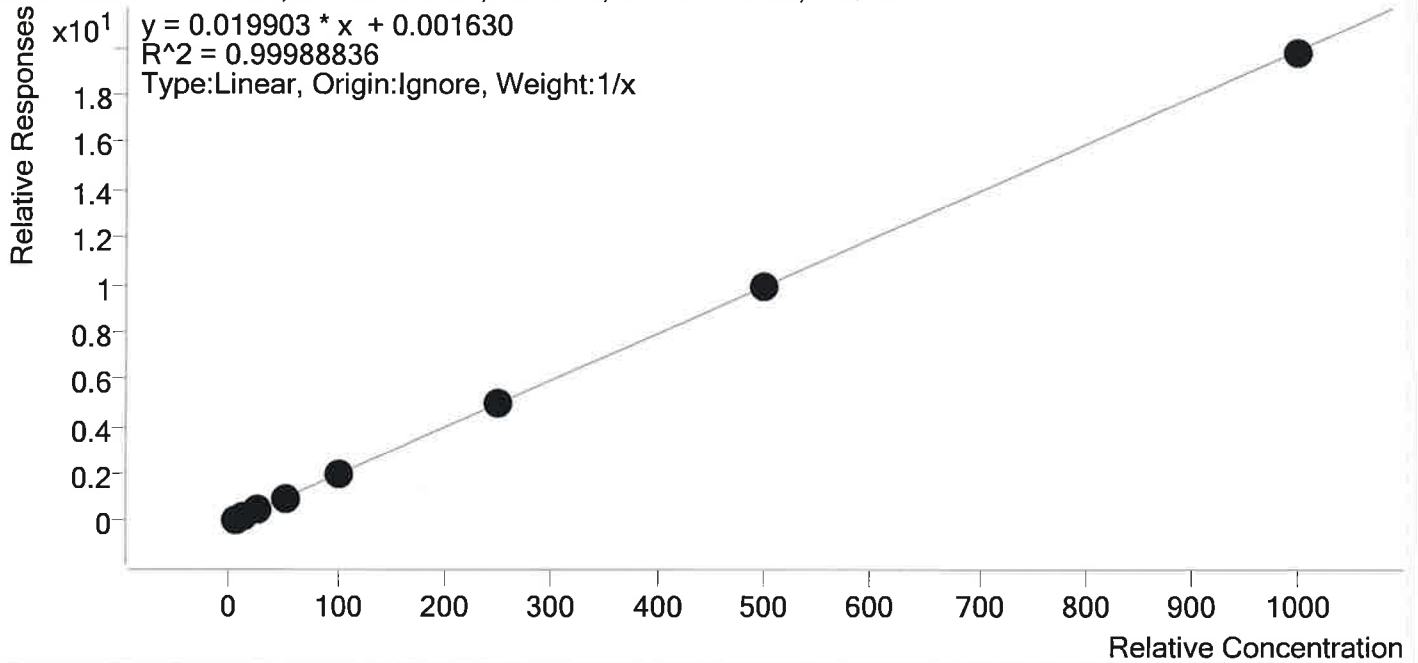
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	502.9	100.6
p1 Cal 8-1000ng	8	✓	1000.0	982.8	98.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



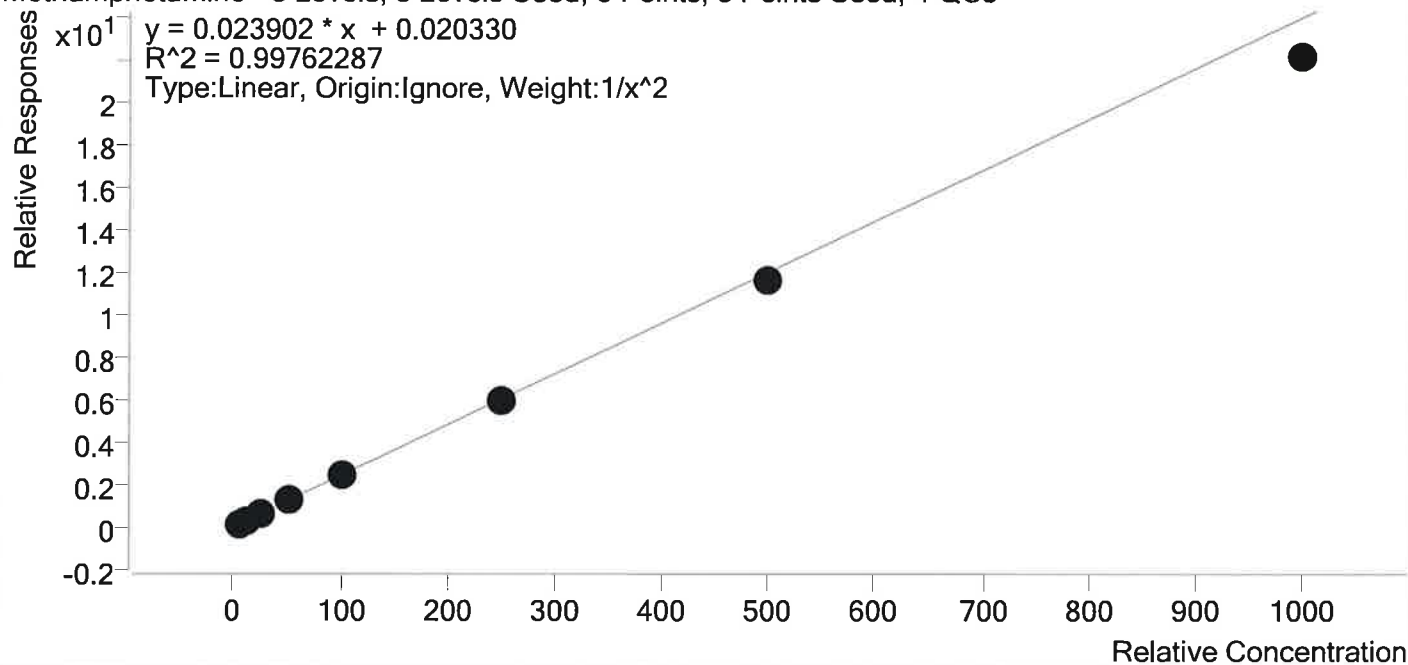
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	254.6	101.8
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	993.7	99.4



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

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



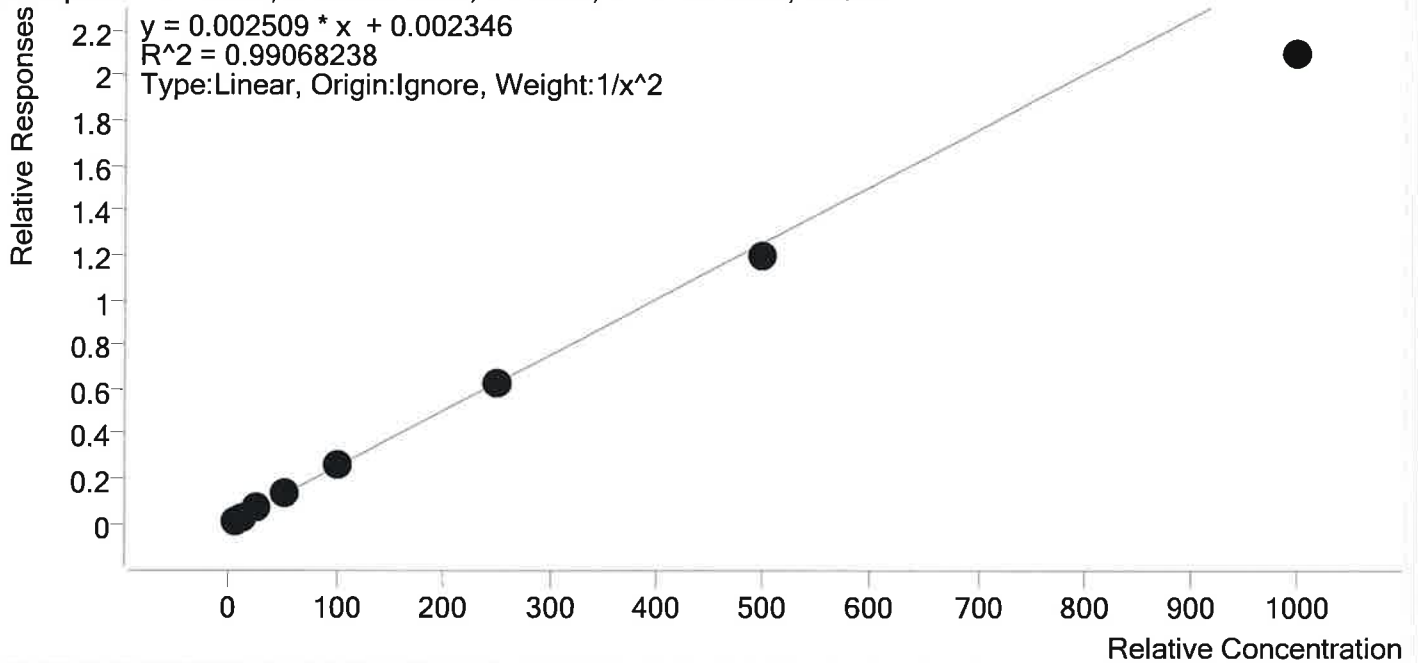
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.4
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	482.8	96.6
p1 Cal 8-1000ng	8	✓	1000.0	922.0	92.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 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



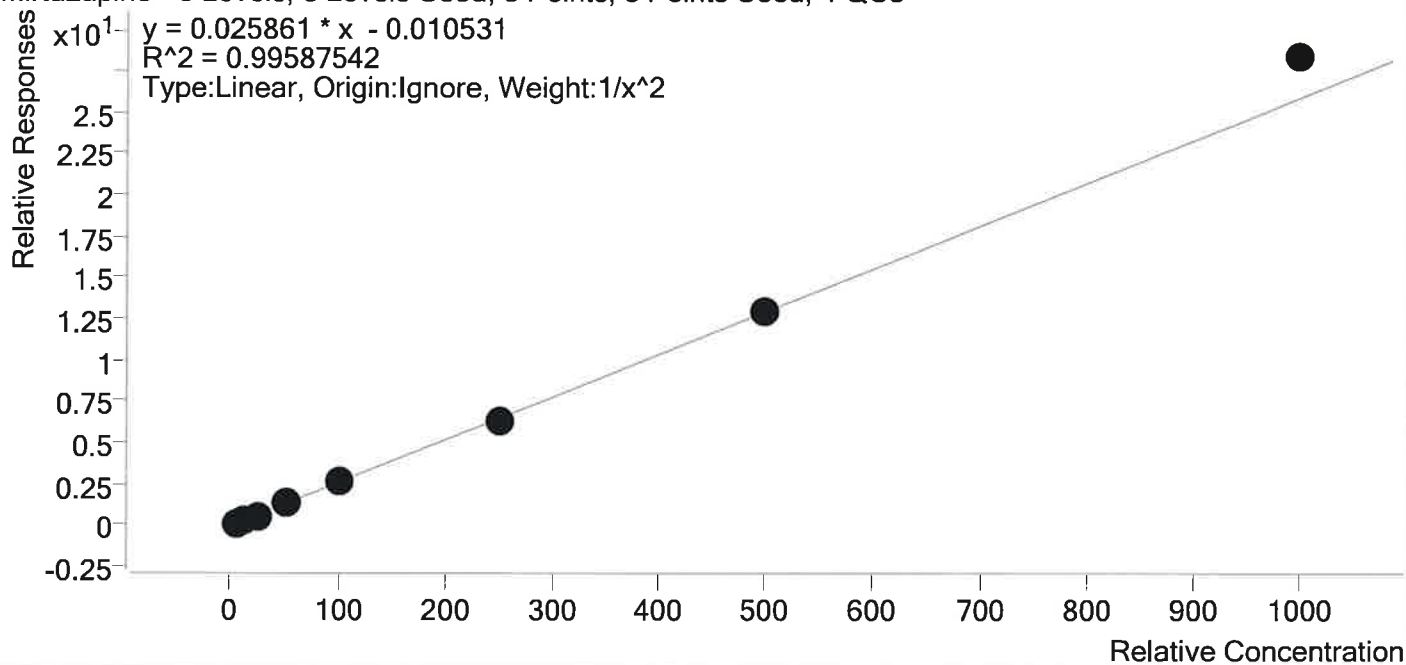
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.2
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	26.5	106.0
p1 Cal 4-50ng	4	✓	50.0	54.3	108.5
p1 Cal 5-100ng	5	✓	100.0	106.8	106.8
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	475.2	95.0
p1 Cal 8-1000ng	8	✓	1000.0	836.0	83.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

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



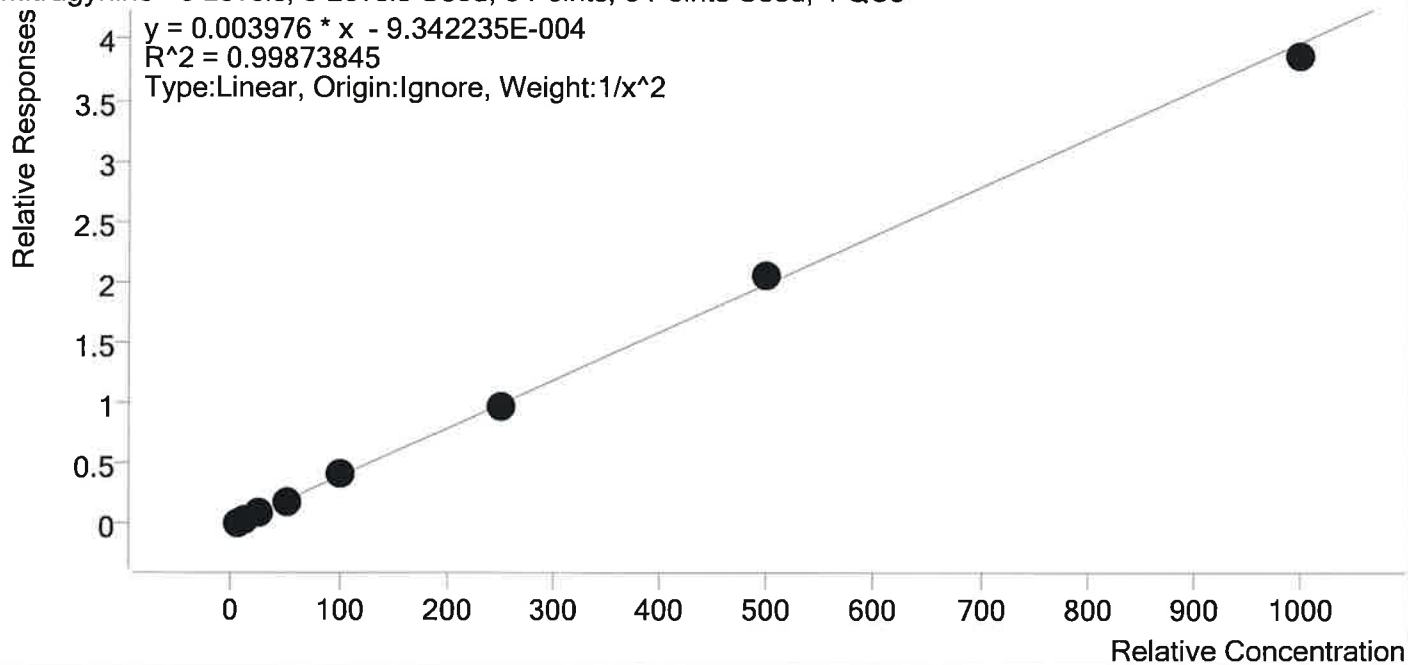
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3 -25ng	3	✓	25.0	22.5	90.0
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	243.3	97.3
p1 Cal 7-500ng	7	✓	500.0	498.6	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1096.9	109.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 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
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng	4	✓	50.0	48.1	96.1
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	519.3	103.9
p1 Cal 8-1000ng	8	✓	1000.0	971.9	97.2

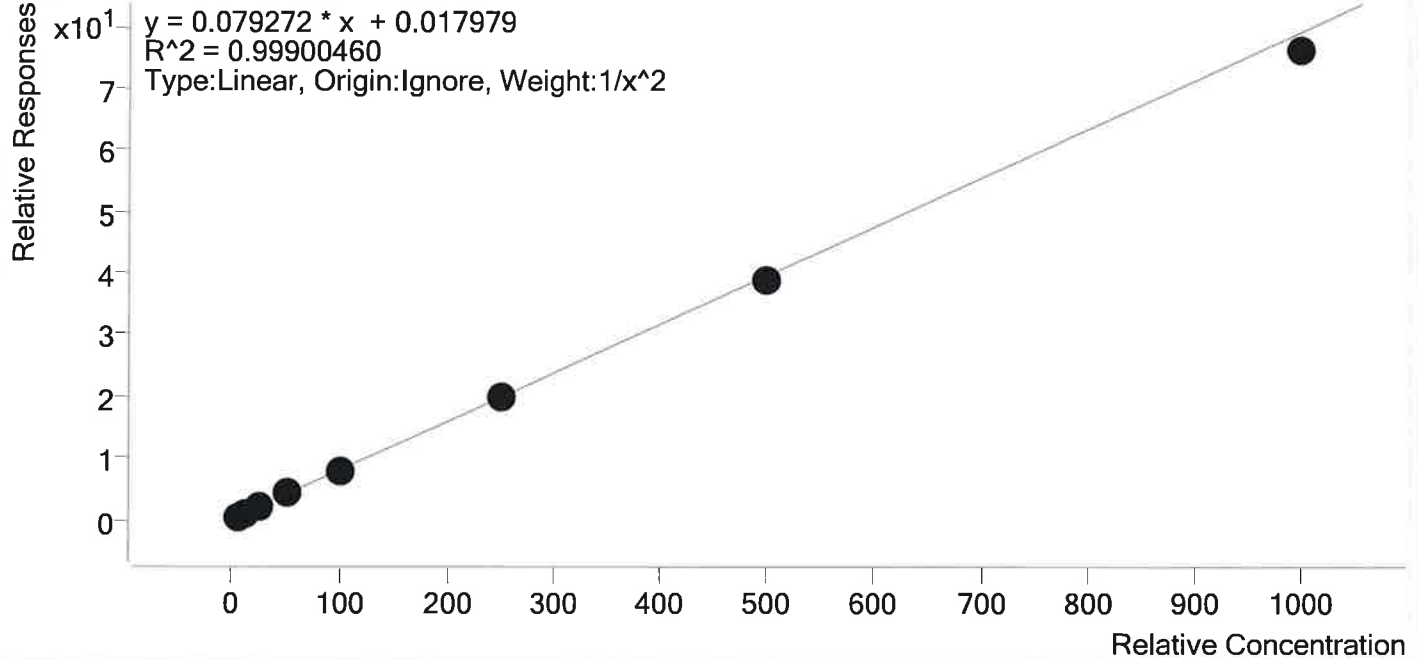




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

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

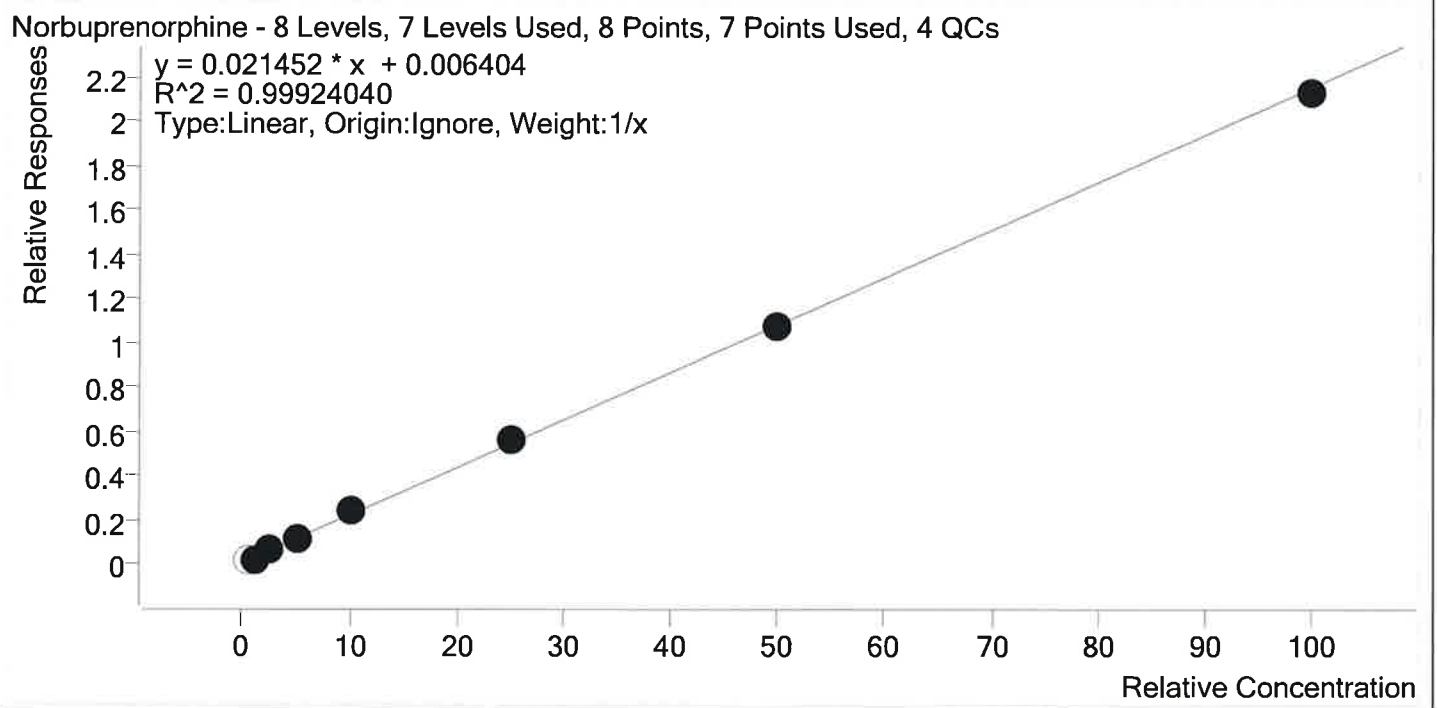


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	51.2	102.5
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	489.7	97.9
p1 Cal 8-1000ng	8	✓	1000.0	962.1	96.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



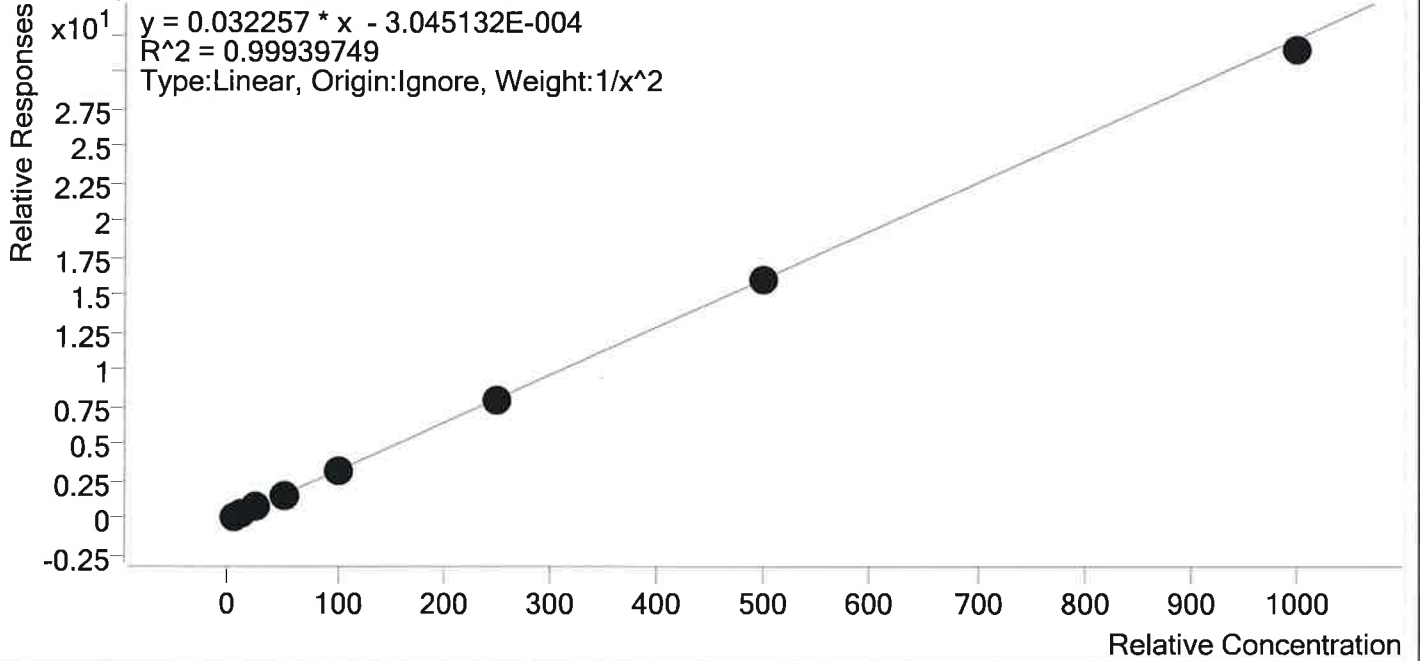
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	0.5	0.7	130.3
p1 Cal 2- 10ng	2	✓	1.0	0.8	84.1
p1 Cal 3 -25ng	3	✓	2.5	2.6	104.9
p1 Cal 4-50ng	4	✓	5.0	5.2	103.3
p1 Cal 5-100ng	5	✓	10.0	10.6	106.4
p1 Cal 6-250ng	6	✓	25.0	25.9	103.5
p1 Cal 7-500ng	7	✓	50.0	49.5	99.0
p1 Cal 8-1000ng	8	✓	100.0	98.9	98.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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



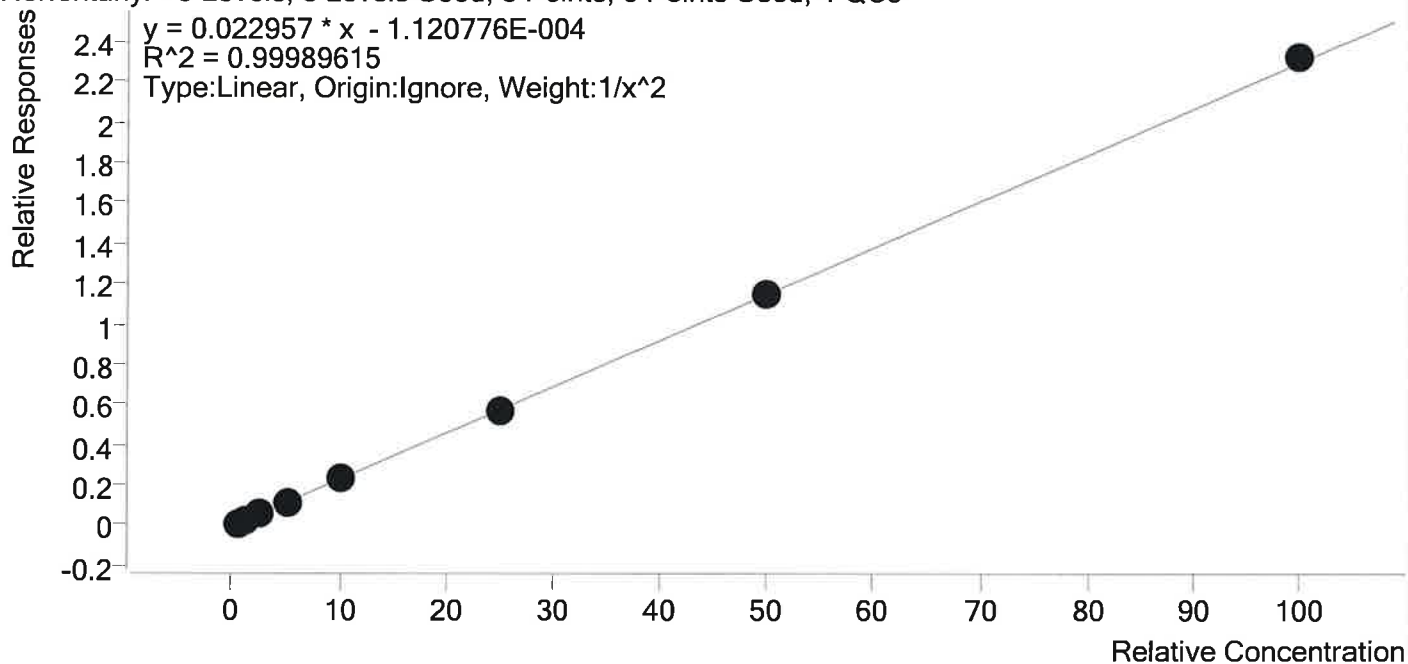
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng	8	✓	1000.0	976.5	97.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



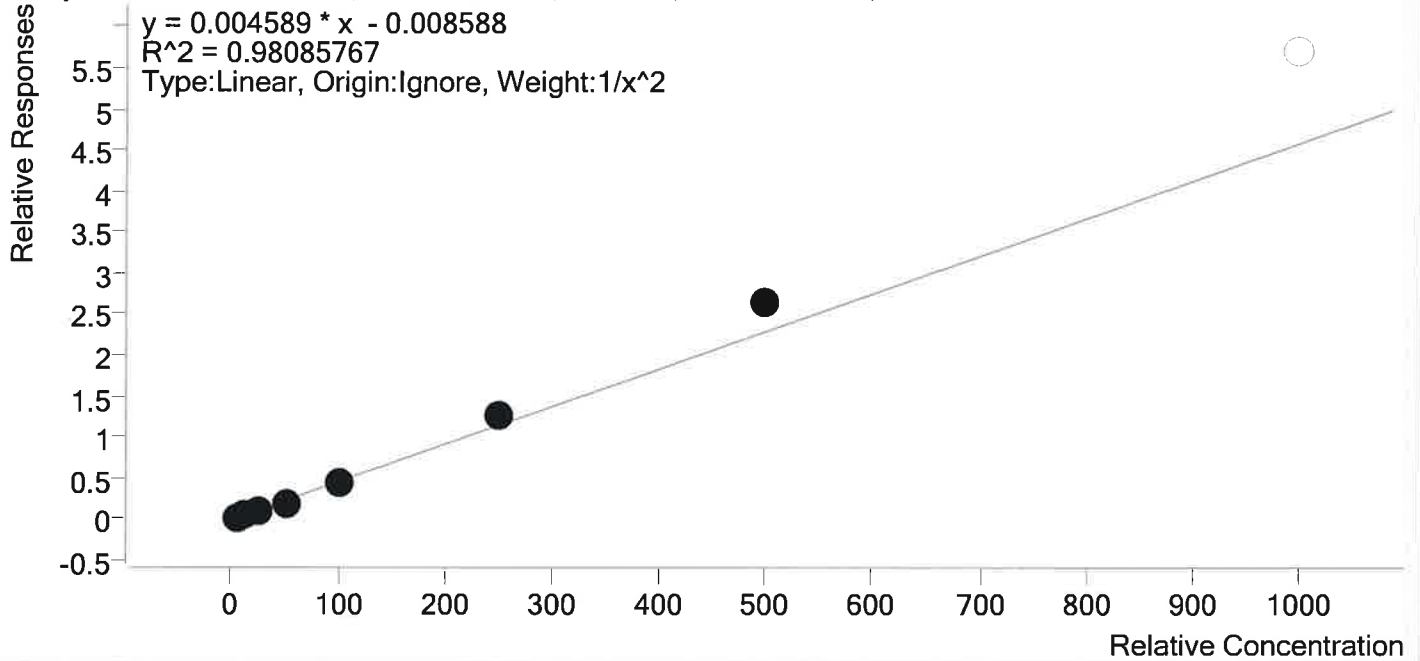
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	100.9
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.5
p1 Cal 4-50ng	4	✓	5.0	5.0	99.2
p1 Cal 5-100ng	5	✓	10.0	10.0	100.3
p1 Cal 6-250ng	6	✓	25.0	25.0	100.0
p1 Cal 7-500ng	7	✓	50.0	50.0	100.0
p1 Cal 8-1000ng	8	✓	100.0	101.2	101.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



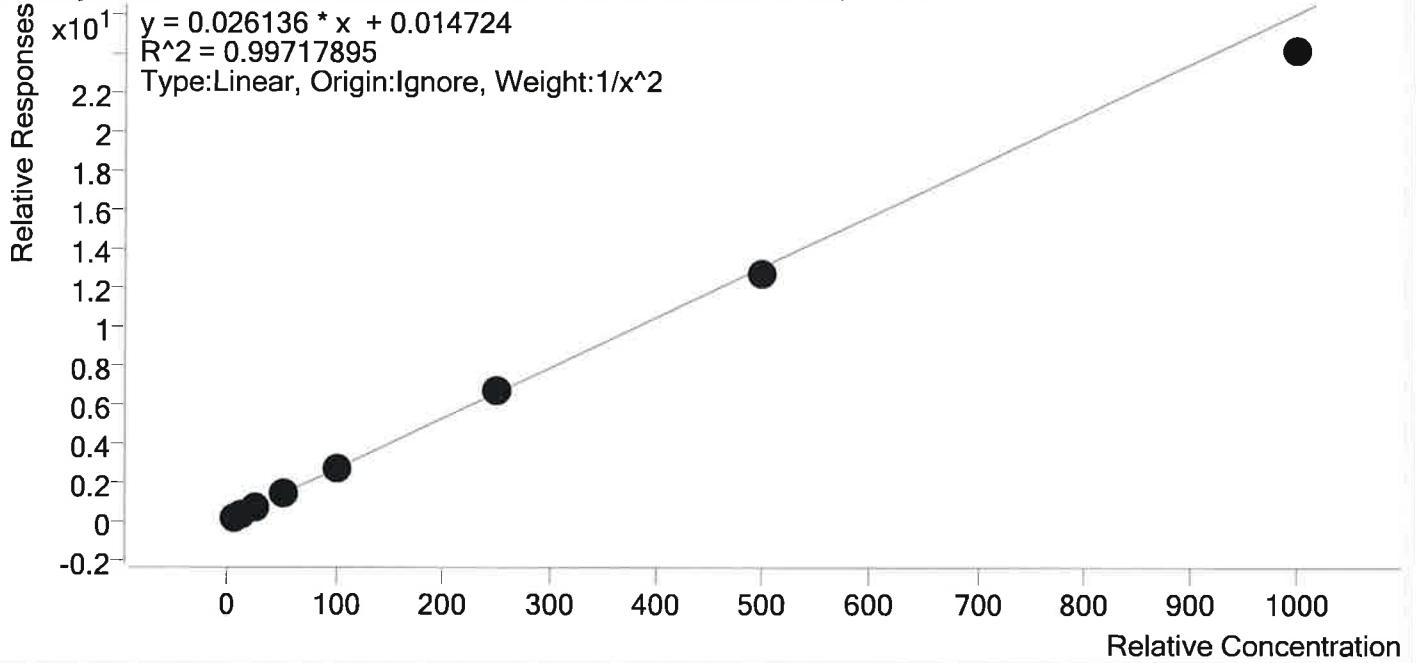
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.1
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	21.0	84.0
p1 Cal 4-50ng	4	✓	50.0	43.0	86.1
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	✓	250.0	273.1	109.3
p1 Cal 7-500ng	7	✓	500.0	582.2	116.4
p1 Cal 8-1000ng	8	×	1000.0	1246.1	124.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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

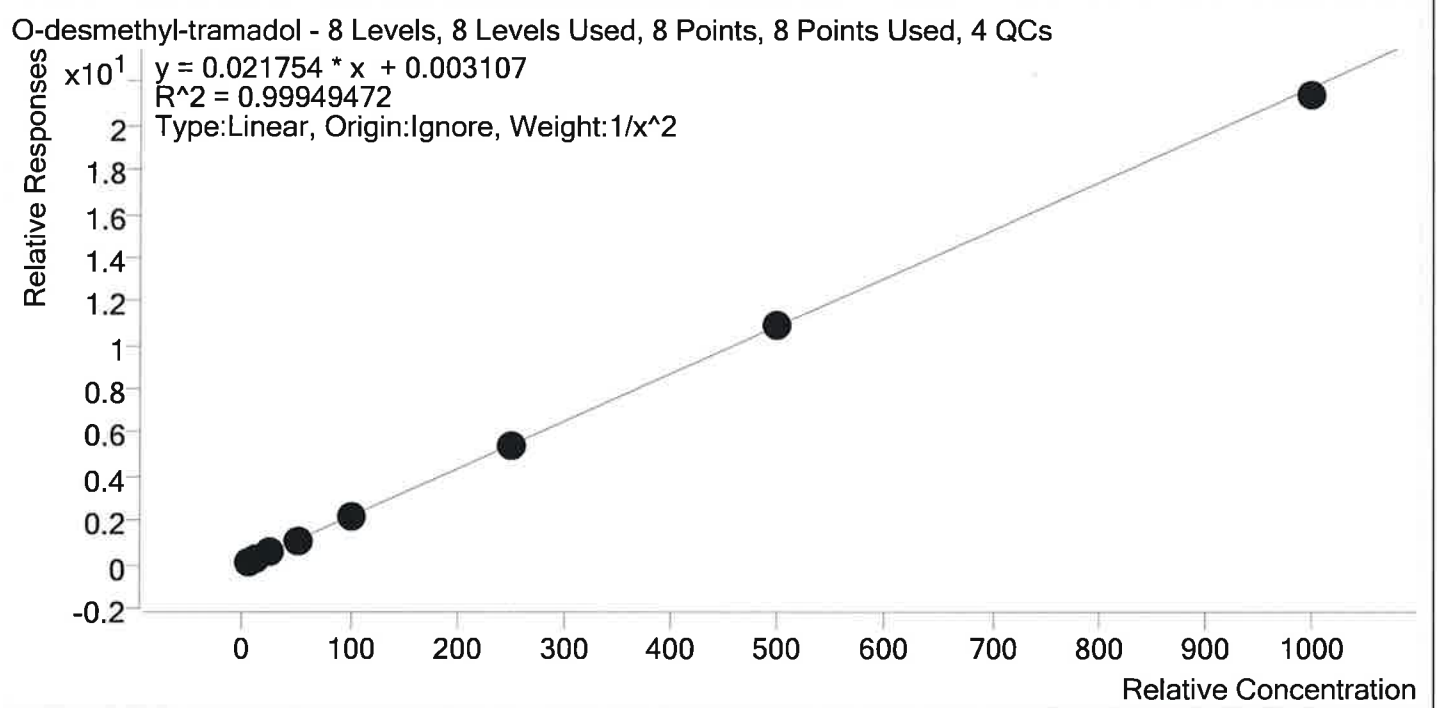


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.4
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	252.1	100.9
p1 Cal 7-500ng	7	✓	500.0	485.6	97.1
p1 Cal 8-1000ng	8	✓	1000.0	925.8	92.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



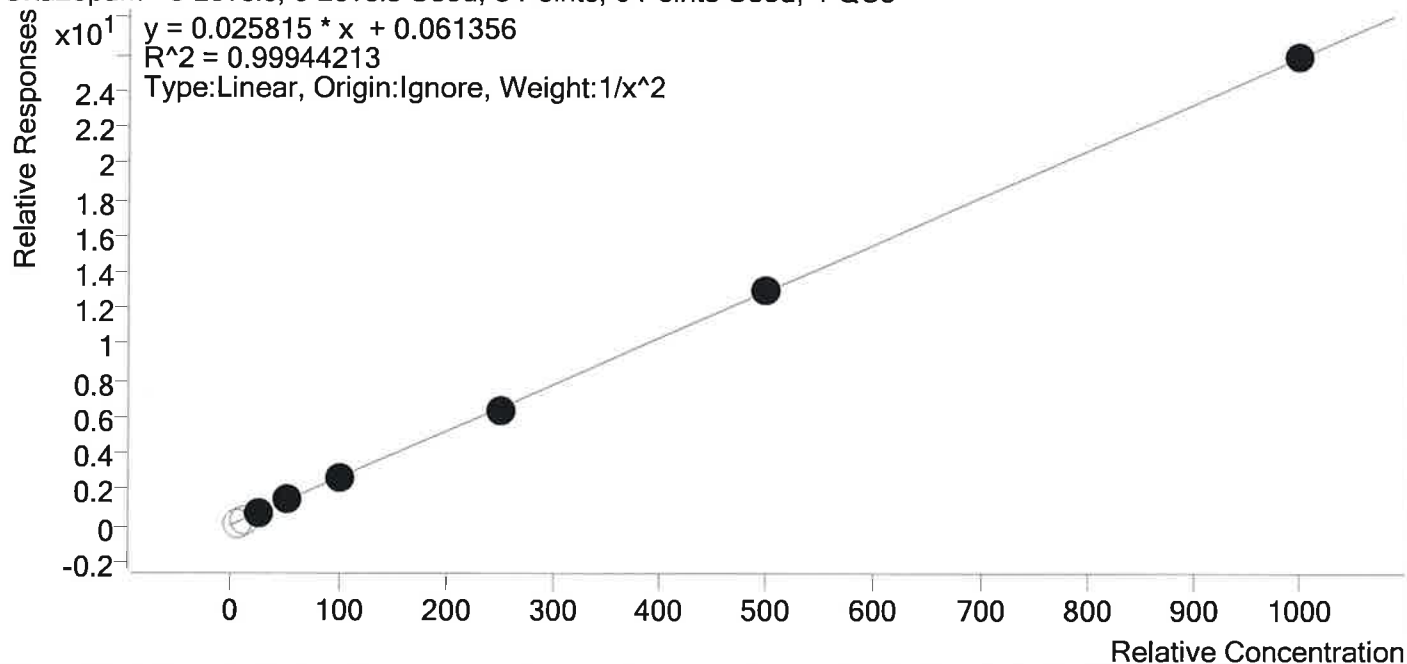
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	49.1	98.3
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	983.4	98.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

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



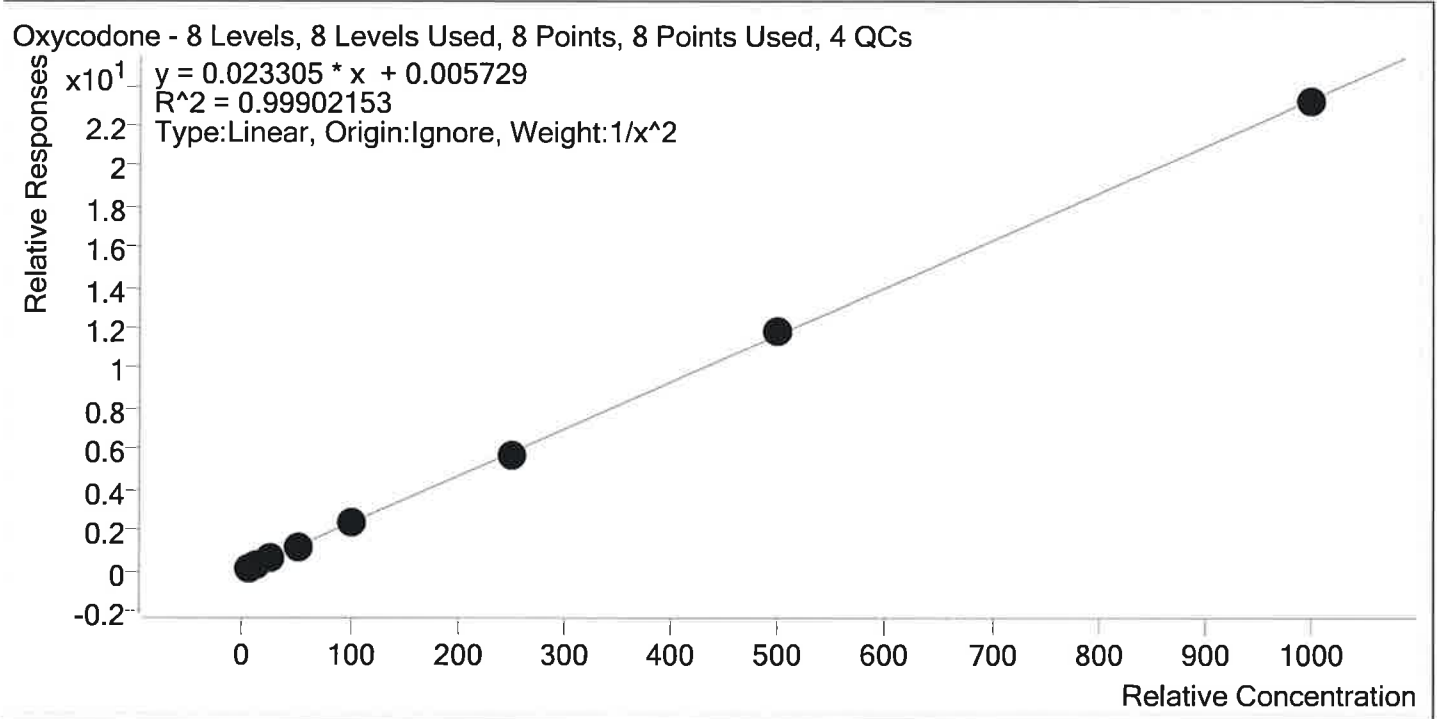
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	3.0	60.7
p1 Cal 2- 10ng	2	×	10.0	8.6	85.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	505.4	101.1
p1 Cal 8-1000ng	8	✓	1000.0	1001.4	100.1





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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



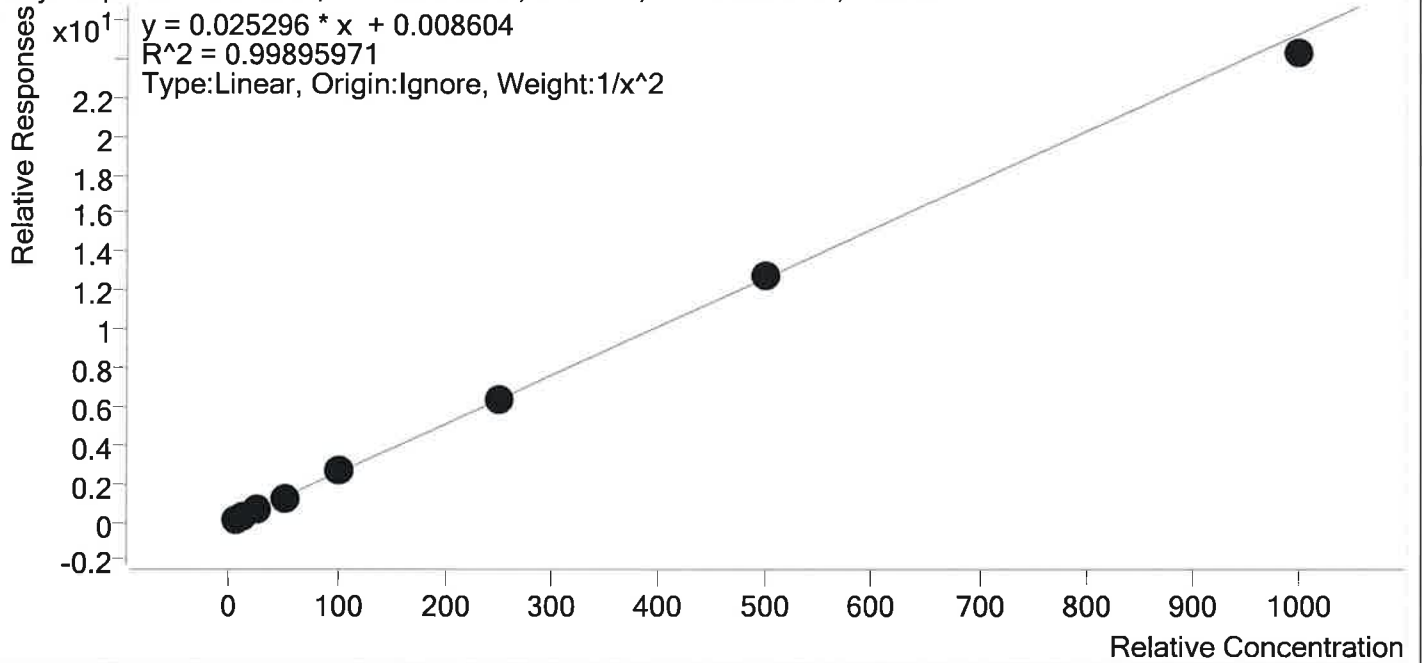
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.1
p1 Cal 4-50ng	4	✓	50.0	48.7	97.4
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	242.4	97.0
p1 Cal 7-500ng	7	✓	500.0	506.7	101.3
p1 Cal 8-1000ng	8	✓	1000.0	995.5	99.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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



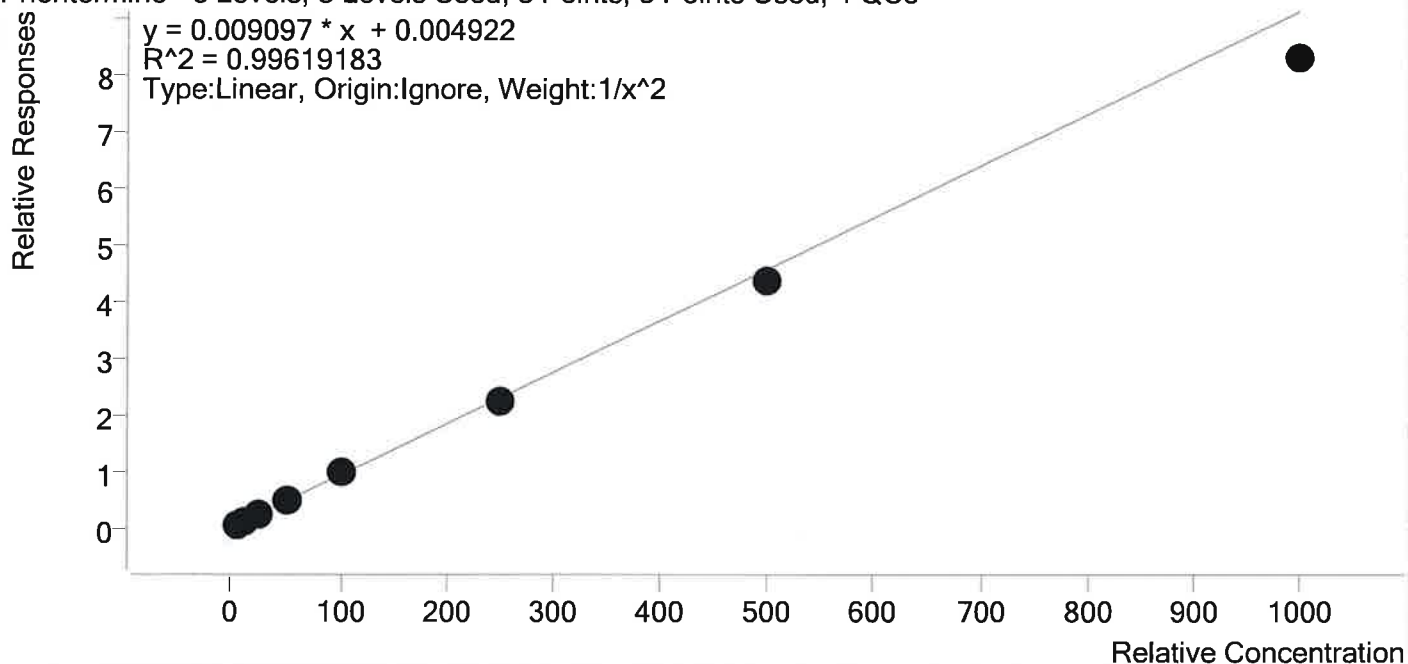
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng	3	✓	25.0	25.2	101.0
p1 Cal 4-50ng	4	✓	50.0	48.5	97.0
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
p1 Cal 7-500ng	7	✓	500.0	501.5	100.3
p1 Cal 8-1000ng	8	✓	1000.0	961.0	96.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/15/2019 8:48 AM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

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

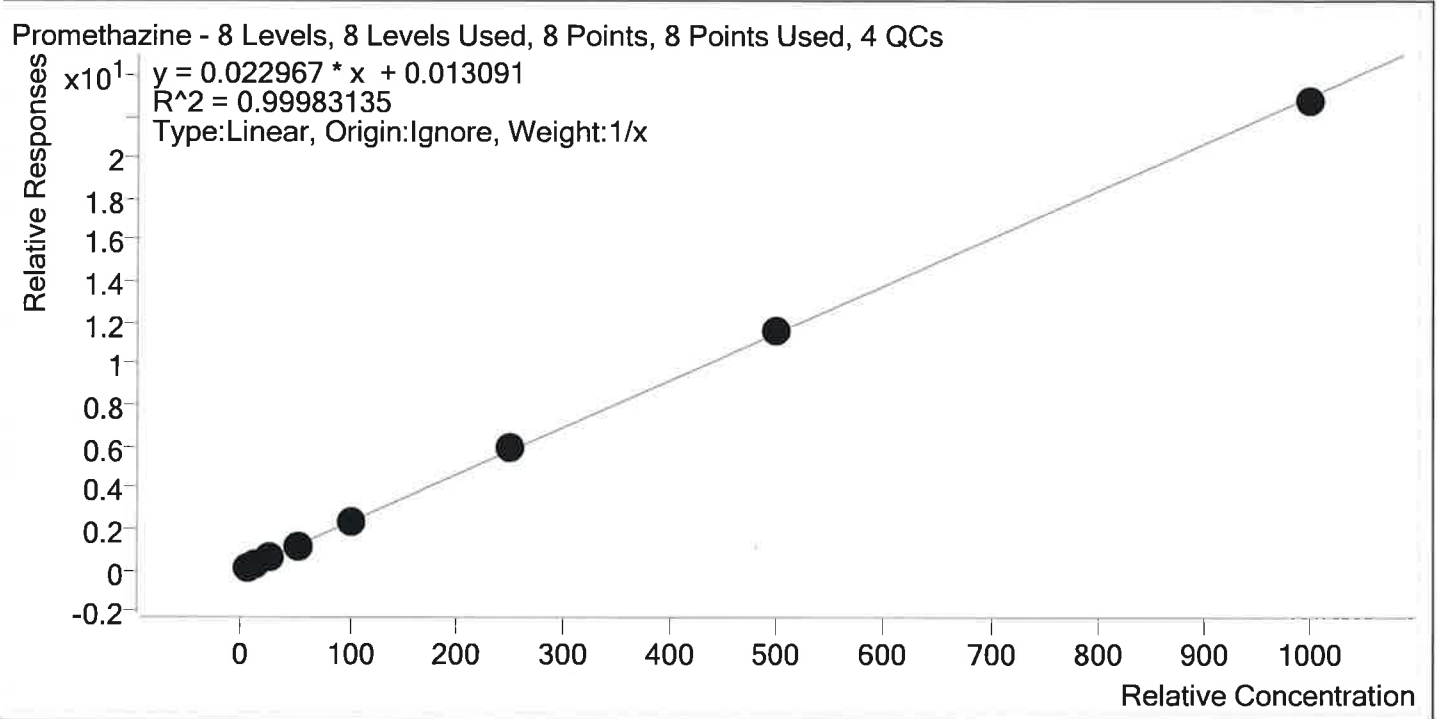


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.1	104.3
p1 Cal 5-100ng	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng	6	✓	250.0	245.3	98.1
p1 Cal 7-500ng	7	✓	500.0	480.6	96.1
p1 Cal 8-1000ng	8	✓	1000.0	910.0	91.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3



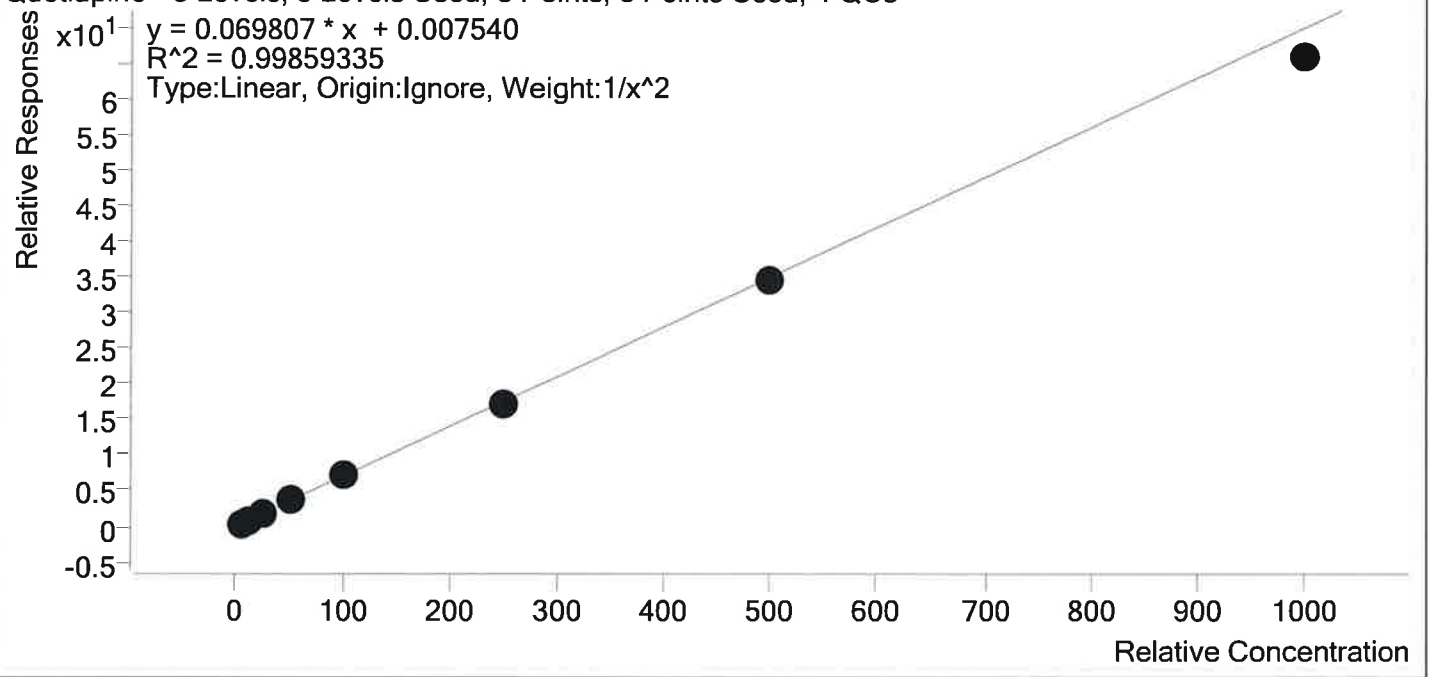
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	256.1	102.4
p1 Cal 7-500ng	7	✓	500.0	501.8	100.4
p1 Cal 8-1000ng	8	✓	1000.0	990.1	99.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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



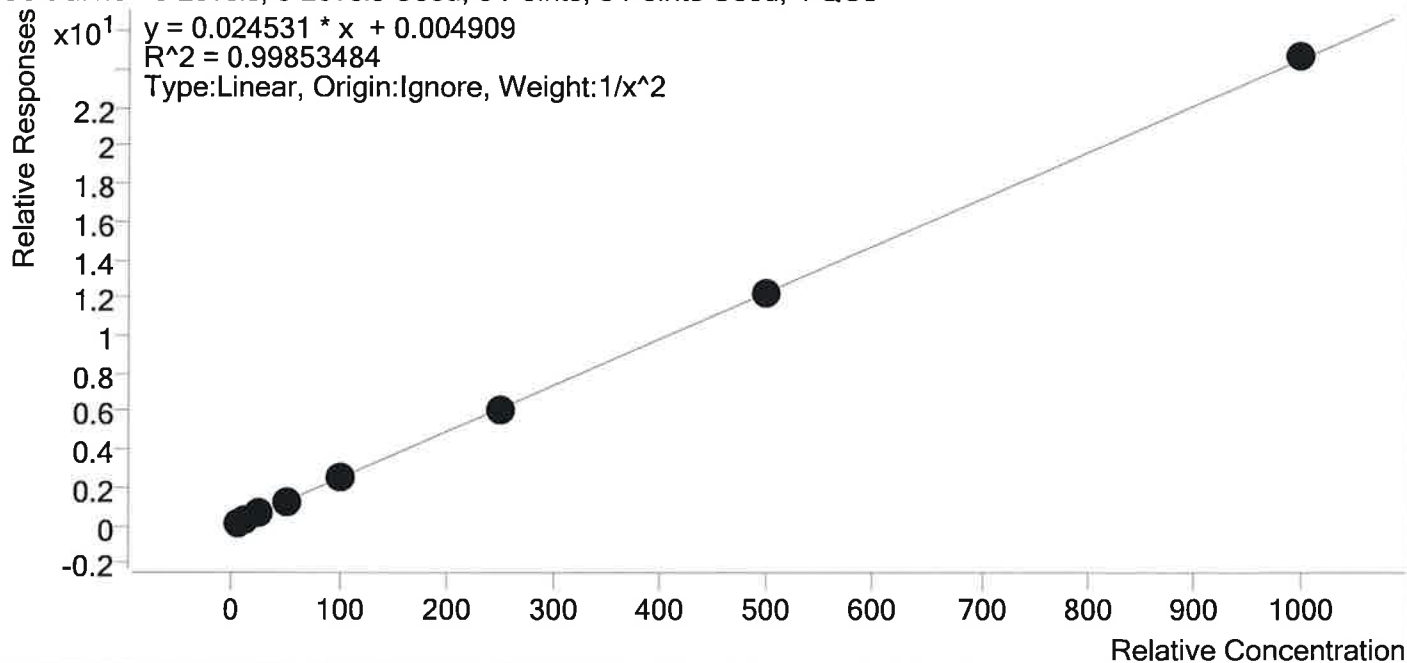
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	25.7	103.0
p1 Cal 4-50ng	4	✓	50.0	50.2	100.3
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	248.4	99.3
p1 Cal 7-500ng	7	✓	500.0	495.7	99.1
p1 Cal 8-1000ng	8	✓	1000.0	941.2	94.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



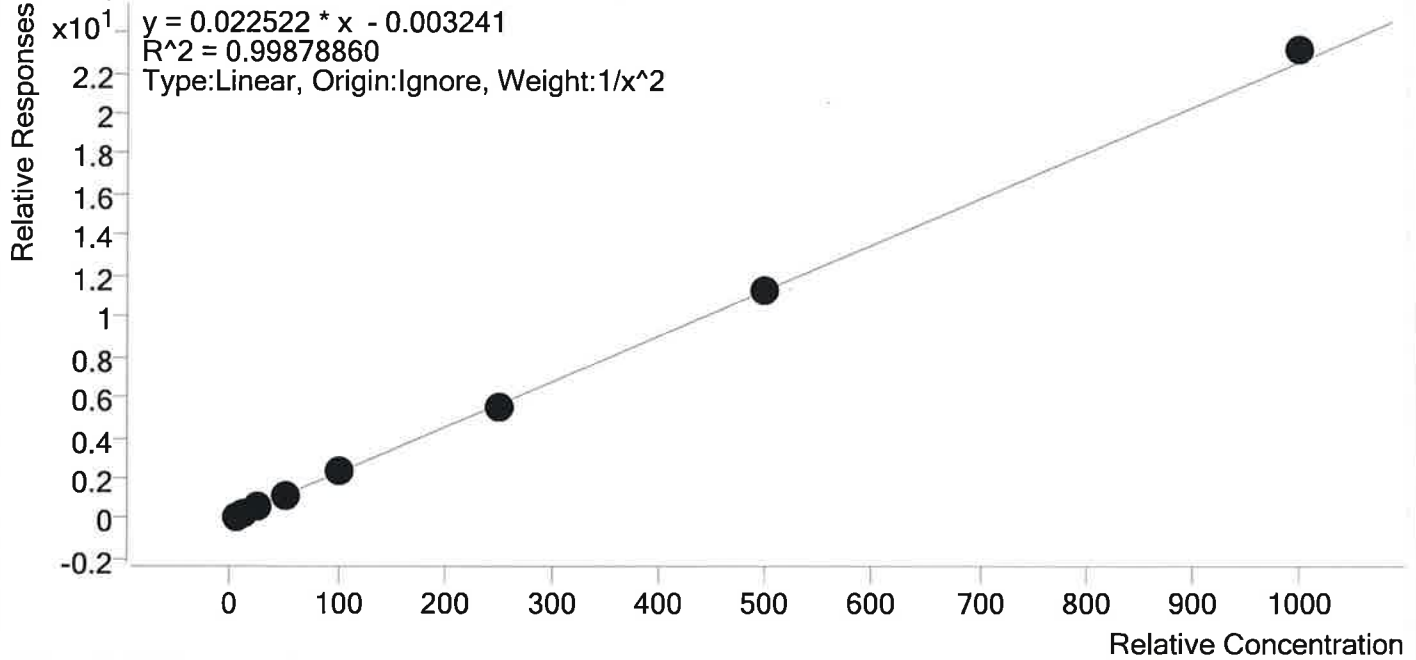
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.9
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	245.2	98.1
p1 Cal 7-500ng	7	✓	500.0	497.4	99.5
p1 Cal 8-1000ng	8	✓	1000.0	1007.7	100.8



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

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



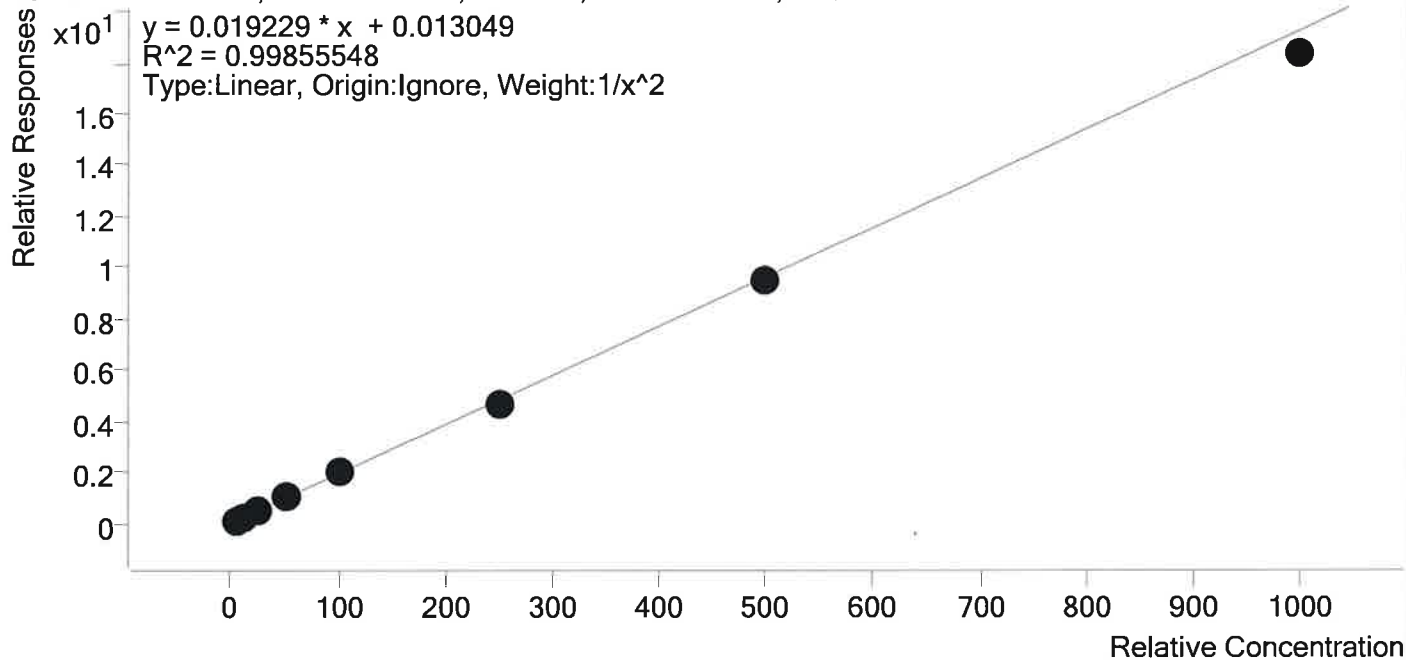
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	47.6	95.3
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	✓	250.0	244.2	97.7
p1 Cal 7-500ng	7	✓	500.0	500.9	100.2
p1 Cal 8-1000ng	8	✓	1000.0	1027.0	102.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	953.0	95.3

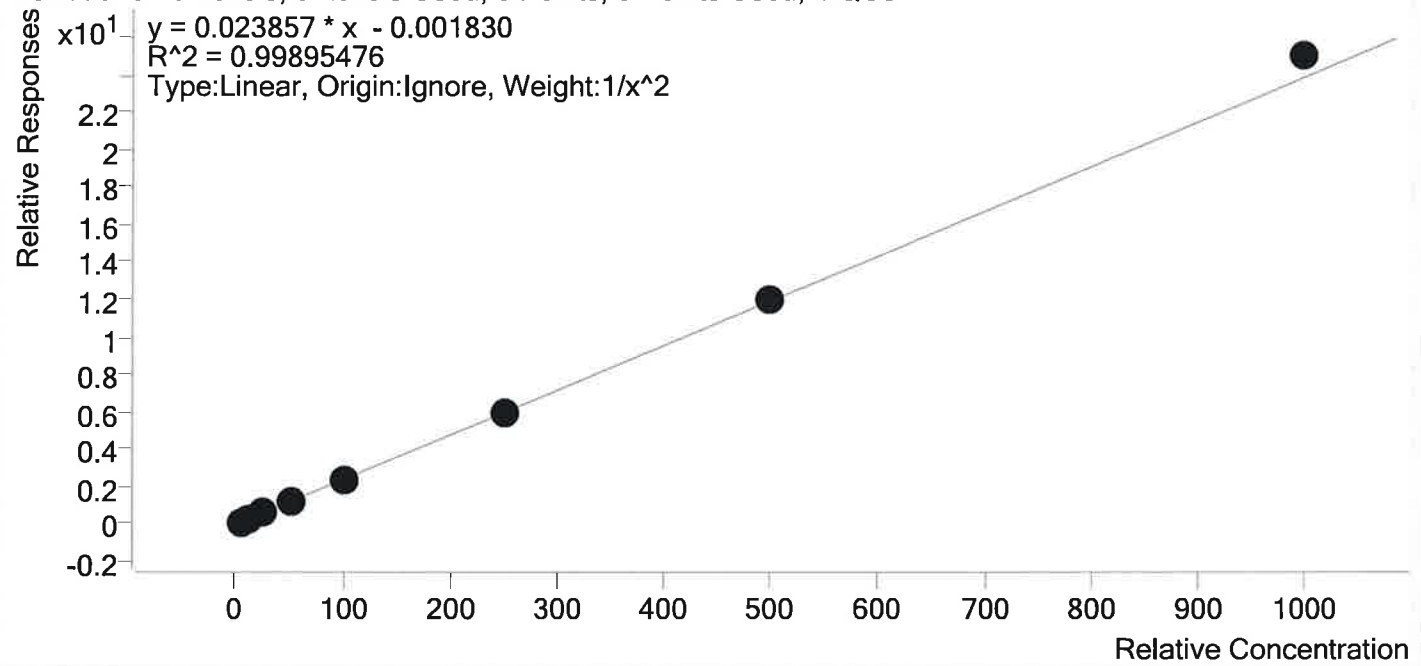




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

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



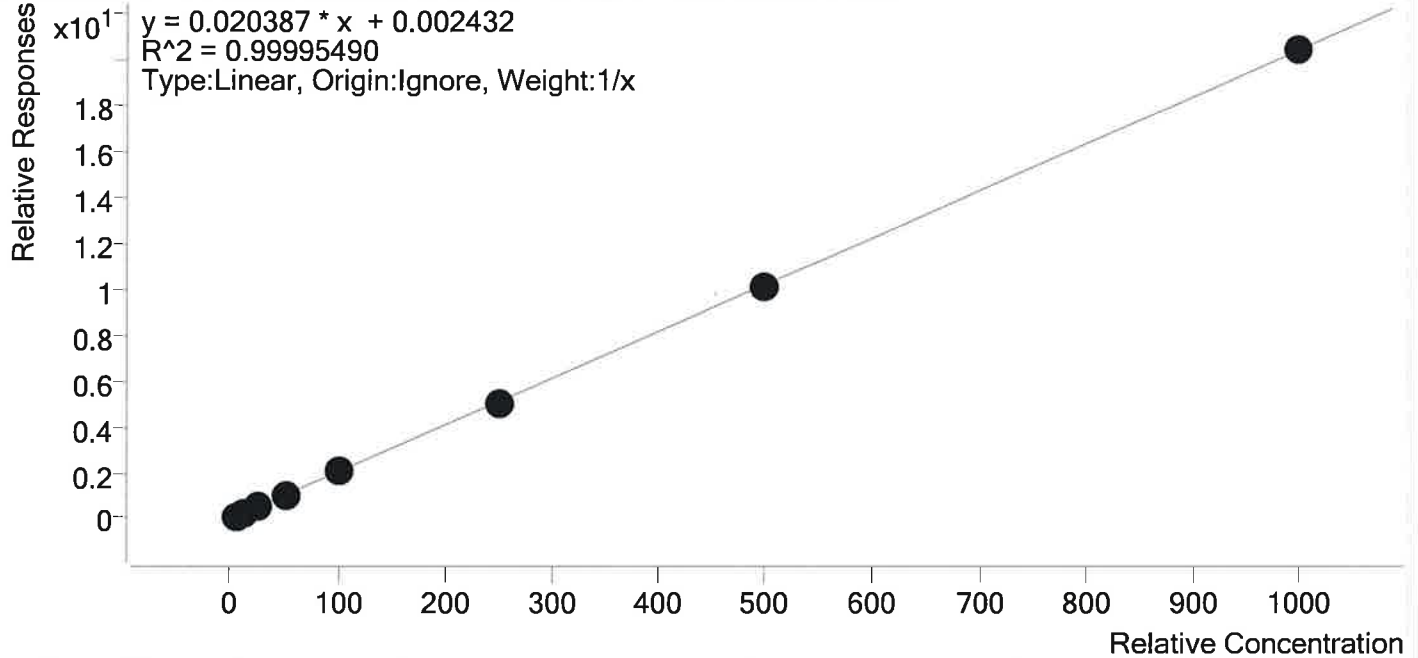
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.6
p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	501.0	100.2
p1 Cal 8-1000ng	8	✓	1000.0	1049.3	104.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

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



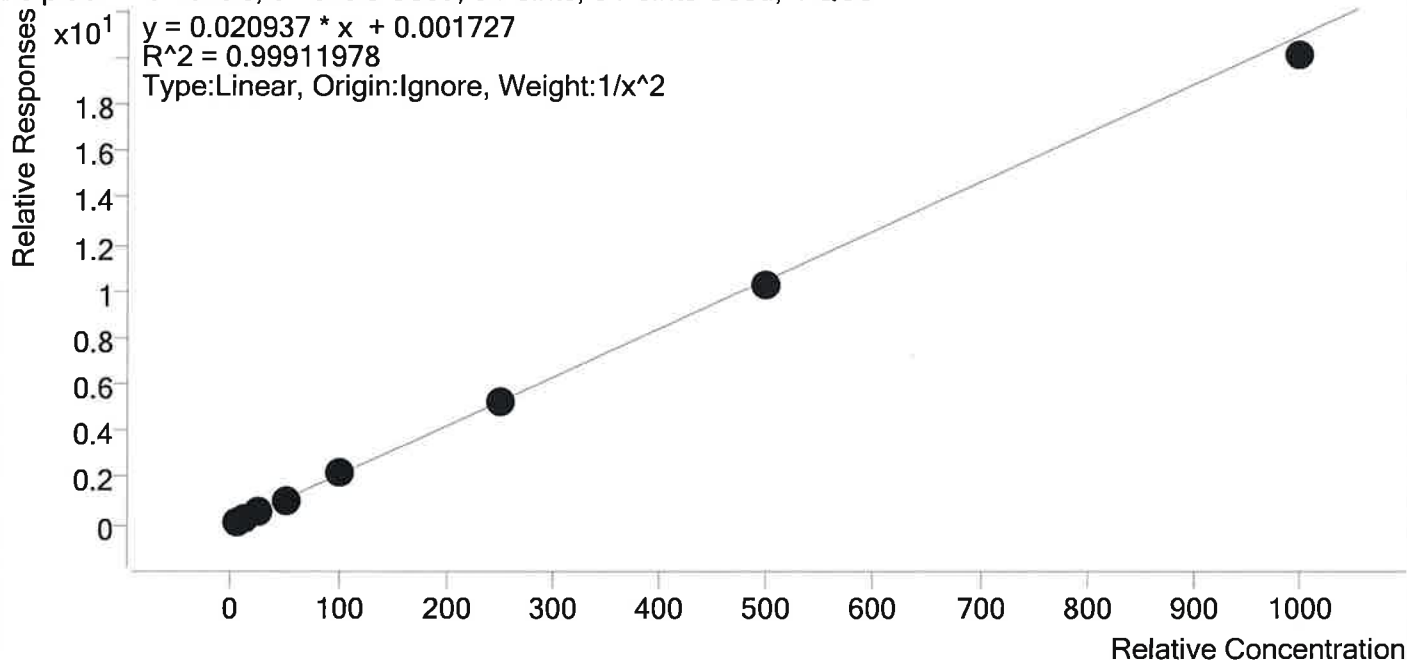
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	498.8	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1001.1	100.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537  
 TS\_correct.batch.bin  
**Last Cal. Update** 7/12/2019 1:49 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.8
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	960.6	96.1



# AM #28 Multi-Drug Quant. Results

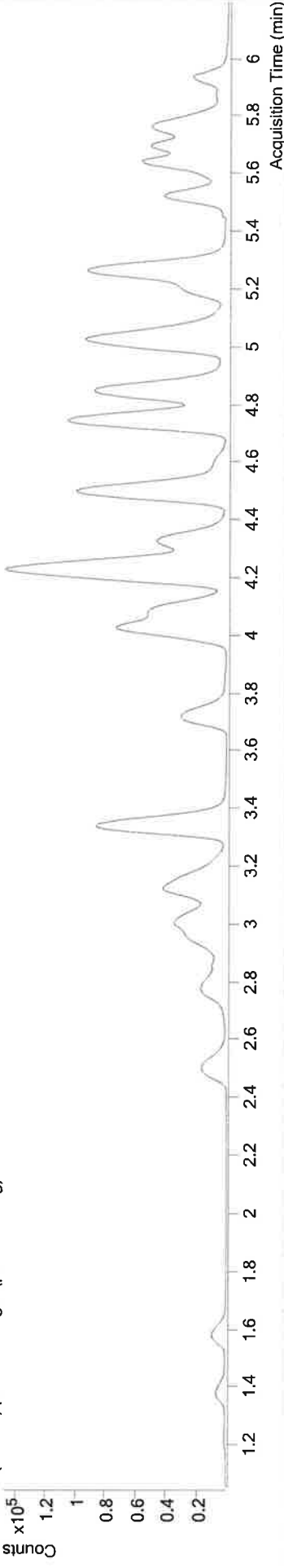
**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-A1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 12:17:00 PM  
**Sample Info.** p1 Cal 1-5ng.d  
p1 Cal 1-5ng

**Data File**  
**Sample**  
**Operator**  
**Comment**

## Sample Chromatogram

+ TIC MRM (\*\*-> \*\*\*) p1 Cal 1-5ng.d (p1 Cal 1-5ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.110	748	161.59	71.1	46.40	45085	0.5060 ng/ml
7-aminoclonazepam	4.239	4522	255.93	83.0	3621.73	35650	3.6489 ng/ml
a-hydroxyalprazolam	5.679	1108	36.88	63.9	62.64	11597	4.8787 ng/ml
alpha-PVP	4.345	15195	561.30	52.8	216.57	138537	4.9444 ng/ml
Alprazolam	5.756	7811	∞	101.9	252.80	46712	5.1814 ng/ml
Amphetamine	3.021	19652	492.16	57.0	288.43	54565	4.7814 ng/ml
Buprenorphine	5.780	675	∞	12.7 <b>Low</b>	∞	45248	0.6819 ng/ml
Bupropion	4.767	50456	2360.25	58.8	453.55	358550	4.7707 ng/ml
Carisoprodol	5.712	6435	∞	61.3	69.07	68920	4.9216 ng/ml
Citalopram	5.200	9105	574.39	41.7	2364.97	80492	4.6469 ng/ml
Clonazepam	5.592	759	153.66	33.7	∞	2382	4.8164 ng/ml
Cocaine	4.245	15297	3695.68	43.3	7815.98	287896	4.7108 ng/ml
Codeine	2.549	2063	215.30	104.1	553.03	18995	4.5291 ng/ml
Cyclobenzaprine	5.615	4726	4635.14	12.4	∞	36745	4.9324 ng/ml
Dextromethorphan	5.242	5189	705.72	75.9	183.62	47904	4.9784 ng/ml
Dextroproprian	4.101	5877	322.52	208.9	1037.22	136344	4.8071 ng/ml
Diazepam	5.950	5200	121.11	87.8	141.52	48071	4.8705 ng/ml
Dihydrocodeine	2.520	5465	3602.78	67.4	336.34	58030	4.8287 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.276	25864	683.94	34.9			388.91	269530	4.8565 ng/ml
Doxylamine	4.514	39488	7575.21	97.7			6805.70	338880	4.7660 ng/ml
Fentanyl	5.077	607	93.87	75.5			118.88	60621	0.4836 ng/ml
Fluoxetine	5.701	4682	105.90	10.2			454.52	37422	4.8535 ng/ml
Hydrocodone	2.997	5598	84.50	41.2			43.08	66203	4.7753 ng/ml
Hydromorphone	1.594	4488	419.16	79.2			1088.10	33289	4.8336 ng/ml
Ketamine	4.027	13937	1230.42	36.7			162.87	124706	4.9252 ng/ml
Lamotrigine	4.255	1497	681.03	74.4			147.13	124706	4.7313 ng/ml
Meprobamate	4.884	2520	443.49	28.4			136.63	23983	4.9825 ng/ml
Methadone	5.647	11718	195.89	51.6			250.58	121889	4.7483 ng/ml
Methamphetamine	3.203	20430	274.35	40.5			129.99	149136	4.8807 ng/ml
Metoprolol	4.307	4518	∞	78.0			88.44	316038	4.7622 ng/ml
Mirtazapine	4.602	16455	3873.47	49.0			598.19	138537	5.0001 ng/ml
Mitragynine	5.198	2288	3185.59	38.1			∞	121889	4.9560 ng/ml
Morphine	1.233	1146	158.29	24.0			∞	2830	4.8820 ng/ml
Norbuprenorphine	4.966	131	13.64	101.7			78.10	6434	0.6516 ng/ml
Nordiazepam	5.889	1259	172.22	58.8			87.86	7972	4.9066 ng/ml
Norfentanyl	4.062	2066	206.52	36.4			39.56	181960	0.4995 ng/ml
Norhydrocodone	3.039	1202	72.33	48.0			35.46	77383	5.2556 ng/ml
Noroxycodone	2.881	3466	113.89	46.6			96.86	24763	4.7925 ng/ml
O-desmethyl-tramadol	3.351	34206	1523.71	6.6			∞	311704	4.9018 ng/ml
Oxazepam	5.737	1485	7.76 Low	68.1			7.17 Low	10628	3.0345 ng/ml
Oxycodone	2.800	9621	165.84	31.8			81.51	80011	4.9136 ng/ml
Oxymorphone	1.383	3203	211.25	47.5			349.38	24205	4.8910 ng/ml
Phentermine	3.753	6283	233.69	3.9			6.59 Low	129083	4.8091 ng/ml
Promethazine	5.532	7772	954.08	29.0			409.99	62435	4.8498 ng/ml
Quetiapine	5.535	12678	439.97	59.9			7650.39	36483	4.8702 ng/ml
Sertraline	5.777	2554	153.09	91.7			196.48	20431	4.8959 ng/ml
Temazepam	5.812	4168	71.10	35.6			5.09 Low	38926	4.8977 ng/ml
Tramadol	4.227	33585	7596.96	3.4			68.96	316038	4.8480 ng/ml
Trazodone	5.104	8650	2376.94	80.8			4136.61	74147	4.9669 ng/ml
Venlafaxine	5.017	25949	722.01	39.5			211.70	256479	4.8434 ng/ml
Zolpidem	4.867	30533	52093.86	32.0			256.11	293178	4.8916 ng/ml

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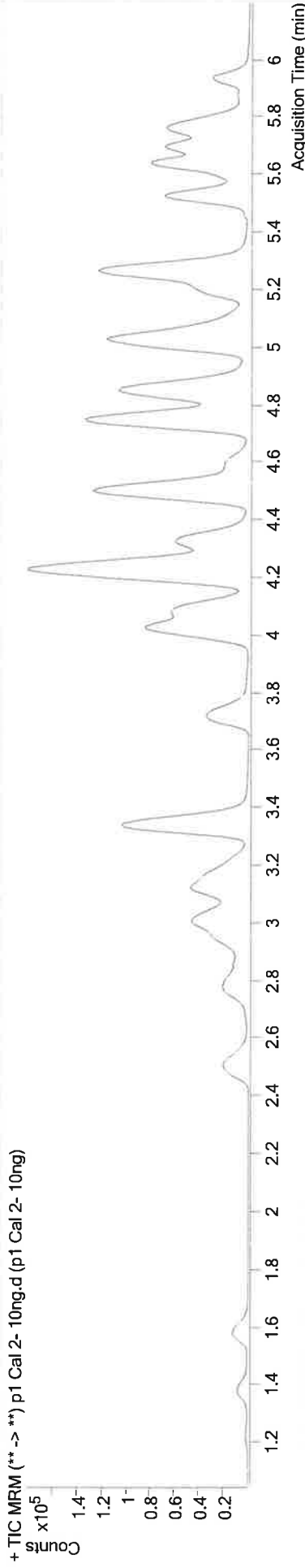


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
**Calibration Last Update** 7/15/2019 8:48:42 AM

**Instrument Type** Falco Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-B1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 12:27:37 PM  
**Sample Info.** p1 Cal 2- 10ng.d  
 p1 Cal 2- 10ng

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	1635	155.32	73.3	196.50	49434	1.0027 ng/ml
7-aminoclonazepam	4.239	9855	∞	83.1	1780.79	39477	9.5016 ng/ml
a-hydroxyalprazolam	5.679	2735	134.78	59.6	61.39	12761	10.5433 ng/ml
alpha-PVP	4.345	34458	3398.43	52.3	1387.78	151774	10.2336 ng/ml
Alprazolam	5.763	17073	397.81	103.7	465.86	51552	10.1198 ng/ml
Amphetamine	3.021	41814	492.77	58.5	1049.78	58632	10.2357 ng/ml
Benzoylcegonine	3.862	1166	149.52	9.1	18.33	3406	9.9988 ng/ml
Buprenorphine	5.794	1367	13.88	17.0	120.08	53341	1.1064 ng/ml
Bupropion	4.767	112385	9390.14	58.8	1911.79	387627	10.1710 ng/ml
Carisoprodol	5.712	14420	14859.65	55.4	81.42	73946	10.2063 ng/ml
Citalopram	5.206	22948	489.06	43.2	8751.37	96017	10.2700 ng/ml
Clonazepam	5.599	1518	61.39	36.9	∞	2600	9.4270 ng/ml
Cocaine	4.245	34910	70181.47	43.4	5393.53	316392	10.2248 ng/ml
Codeine	2.549	4629	711.61	103.2	1828.42	20288	10.2105 ng/ml
Cyclobenzaprine	5.615	13658	575.13	10.5	∞	53317	9.9722 ng/ml
Dextromethorphan	5.249	12639	575.74	81.5	329.71	58834	10.1239 ng/ml
Dextrorphan	4.101	13442	696.10	204.0	1551.98	152057	10.1236 ng/ml
Diazepam	5.943	12154	268.90	85.6	823.53	53460	10.4237 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	12433	4895.39	65.8	15320.61	63704	10.4688 ng/ml
Diphenhydramine	5.276	62662	3606.74	34.6	2066.70	320964	10.1606 ng/ml
Doxylamine	4.514	88042	14724.48	98.0	6424.82	370377	10.1340 ng/ml
Fentanyl	5.070	1704	365.02	69.4	∞	76951	1.0825 ng/ml
Fluoxetine	5.708	14998	187.52	9.8	∞	54961	10.6140 ng/ml
Hydrocodone	2.997	12850	147.81	40.1	59.54	69075	10.8031 ng/ml
Hydromorphone	1.587	10197	∞	74.4	721.81	34986	10.5820 ng/ml
Ketamine	4.021	30739	2306.31	38.0	243.71	138083	10.1956 ng/ml
Lamotrigine	4.255	3378	105.82	81.8	240.71	138083	10.6449 ng/ml
Lorazepam	5.734	2075	26.15	37.3 <b>Low</b>	5.05 <b>Low</b>	2600	7.8932 ng/ml
Meprobamate	4.884	5476	682.23	28.0	73.18	26365	10.0794 ng/ml
Methadone	5.647	31059	712.72	50.1	391.07	153421	10.0893 ng/ml
Methamphetamine	3.196	44088	292.01	41.0	256.19	166627	10.2192 ng/ml
Metoprolol	4.307	9928	1712.16	91.8	∞	346041	10.4988 ng/ml
Mirtazapine	4.602	39272	7616.70	47.1	6410.04	151774	10.4127 ng/ml
Mitragynine	5.205	6153	8226.36	40.7	∞	153421	10.3210 ng/ml
Morphine	1.233	2464	1832.64	24.9	2257.32	2957	10.2872 ng/ml
Norbuprenorphine	4.973	178	41.12	106.6	186.17	7278	0.8410 ng/ml
Nordiazepam	5.889	2904	296.61	62.6	1359.56	8704	10.3523 ng/ml
Norfentanyl	4.062	4495	2135.92	36.4	114.18	194918	1.0094 ng/ml
Norhydrocodone	3.032	3118	85.98	42.5	91.71	85497	9.8172 ng/ml
Noroxycodone	2.881	7599	∞	49.1	71.62	25958	10.6368 ng/ml
O-desmethyl-tramadol	3.344	77471	8614.08	6.4	310.41	338591	10.3751 ng/ml
Oxazepam	5.744	3243	13.24	42.8 <b>Low</b>	4.45 <b>Low</b>	11474	8.5706 ng/ml
Oxycodone	2.800	21437	81.65	30.6	107.31	87955	10.2124 ng/ml
Oxymorphone	1.383	6948	209.06	48.6	∞	25497	10.4320 ng/ml
Phentermine	3.753	14148	790.94	3.9	15.37	140983	10.4896 ng/ml
Promethazine	5.532	23264	499.42	30.0	298.26	97040	9.8683 ng/ml
Quetiapine	5.535	31905	79944.59	59.9	1040.80	43602	10.3741 ng/ml
Sertraline	5.777	7905	111.41	91.1	2167.48	29870	10.5885 ng/ml
Temazepam	5.805	9845	150.88	27.0	14.24	42265	10.4868 ng/ml
Tramadol	4.220	73988	11340.58	3.3	169.20	346041	10.4409 ng/ml
Trazodone	5.104	22580	19533.83	78.8	∞	92328	10.3276 ng/ml
Venlafaxine	5.024	59470	4632.28	38.7	529.20	278292	10.3627 ng/ml
Zolpidem	4.867	69757	∞	31.3	6876.44	319601	10.3422 ng/ml

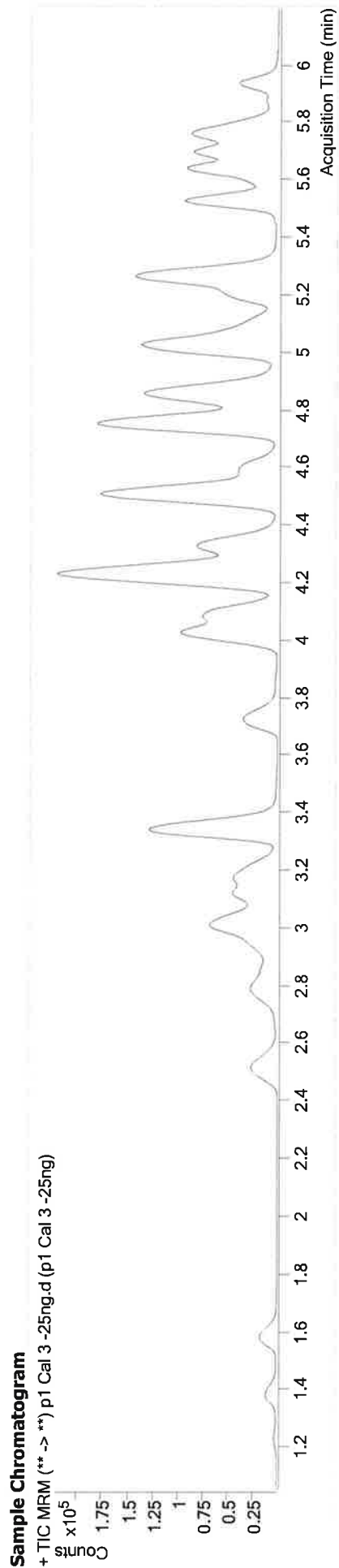
13



# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

Instrument Type Falco  
 Cal MDQ P1 Combined 011619.m  
 Sample Operator  
 Injection Position P1-C1  
 Injection Volume 1  
 Acq. Date-Time 7/11/2019 12:38:04 PM  
 Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	3807	200.55	73.0	191.87	48418	2.3755 ng/ml
7-aminoclonazepam	4.239	23760	155.59	82.5	2233.97	39327	26.4007 ng/ml
a-hydroxyalprazolam	5.679	6101	172.84	67.2	348.10	11919	24.7344 ng/ml
alpha-PVP	4.345	81215	1630.41	51.7	1619.80	146265	25.0272 ng/ml
Alprazolam	5.763	39191	872.17	105.8	981.25	48816	24.3237 ng/ml
Amphetamine	3.021	104741	∞	54.9	2204.01	56976	27.6219 ng/ml
Benzoylcegonine	3.855	2438	146.43	7.2	41.38	3380	25.0122 ng/ml
Buprenorphine	5.794	2844	236.40	18.8	877.00	45376	2.5732 ng/ml
Bupropion	4.767	255337	39160.71	58.4	1365.36	365324	24.9741 ng/ml
Carisoprodol	5.712	34615	69109.00	54.3	174.93	70356	25.6501 ng/ml
Citalopram	5.206	47265	990.24	43.2	3963.12	83184	24.9752 ng/ml
Clonazepam	5.592	3759	643.25	36.9	3561.19	2497	25.4392 ng/ml
Cocaine	4.245	81044	959.42	42.9	7113.98	305670	25.1465 ng/ml
Codeine	2.543	10777	1874.15	101.5	3390.75	19819	25.2120 ng/ml
Cyclobenzaprine	5.615	29571	89.25	10.0	179.75	46695	24.8738 ng/ml
Dextromethorphan	5.249	26451	1766.56	79.4	340.16	51495	24.5614 ng/ml
Dextropropion	4.101	30721	10082.33	201.7	9302.15	141305	25.2648 ng/ml
Diazepam	5.950	28383	1169.20	85.7	697.44	51513	25.5041 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	29164	192.69	66.8	21796.37	62189	25.7583 ng/ml
Diphenhydramine	5.276	134224	1027.28	34.1	∞	281666	25.1913 ng/ml
Doxylamine	4.521	204468	84633.69	97.8	11411.91	355585	25.0760 ng/ml
Fentanyl	5.070	3502	75.81	72.0	1852.55	71675	2.4014 ng/ml
Fluoxetine	5.701	31359	822.93	9.6	3398.93	49081	24.8830 ng/ml
Hydrocodone	2.997	29812	78.23	41.5	71.74	69537	25.2217 ng/ml
Hydromorphone	1.587	23454	276.29	77.1	367.08	33734	25.4019 ng/ml
Ketamine	4.027	72543	1969.86	37.5	206.67	133275	25.4909 ng/ml
Lamotrigine	4.262	7891	1656.28	76.9	5204.05	133275	27.1318 ng/ml
Lorazepam	5.734	4682	183.78	53.6	10.69	2497	24.6569 ng/ml
Meprobamate	4.884	12988	1022.16	28.4	108.30	25701	24.8581 ng/ml
Methadone	5.647	65664	1520.34	50.9	1960.62	130400	25.2183 ng/ml
Methamphetamine	3.196	95175	899.18	40.7	342.31	147778	26.0939 ng/ml
Metoprolol	4.307	23109	10282.73	91.4	∞	335549	26.5109 ng/ml
Mirtazapine	4.602	83577	856.24	48.5	4179.21	146265	22.5022 ng/ml
Mitragynine	5.205	12502	4382.33	38.5	7757.87	130400	24.3485 ng/ml
Morphine	1.233	5840	385.66	23.5	987.38	2818	25.9105 ng/ml
Norbuprenorphine	4.966	402	240.02	102.6	293.60	6423	2.6217 ng/ml
Nordiazepam	5.889	6847	529.30	58.5	444.33	8455	25.1132 ng/ml
Norfentanyl	4.062	10498	1818.09	35.3	908.87	186135	2.4616 ng/ml
Norhydrocodone	3.032	7333	125.21	45.9	122.61	83543	20.9961 ng/ml
Noroxycodone	2.881	18101	192.13	47.7	268.49	25984	26.0896 ng/ml
O-desmethyl-tramadol	3.351	183331	11297.17	6.3	∞	331631	25.2699 ng/ml
Oxazepam	5.744	7709	25.81	66.5	9.77 Low	11000	24.7694 ng/ml
Oxycodone	2.800	51381	628.37	31.0	76.00	83166	26.2641 ng/ml
Oxymorphone	1.383	16639	2141.29	47.4	243.43	25710	25.2434 ng/ml
Phentermine	3.759	31514	737.06	3.8	74.92	130570	25.9895 ng/ml
Promethazine	5.532	50600	4178.01	27.9	1662.94	86415	24.9253 ng/ml
Quetiapine	5.535	68347	709.81	59.9	34047.96	37869	25.7466 ng/ml
Sertraline	5.777	16124	555.19	95.6	355.14	27222	23.9452 ng/ml
Temazepam	5.812	22920	210.75	35.1	46.72	40812	25.0795 ng/ml
Tramadol	4.227	170772	9761.47	3.5	227.11	335549	25.7889 ng/ml
Trazodone	5.110	49440	324.34	78.4	∞	86075	24.1524 ng/ml
Venlafaxine	5.024	134424	10786.41	38.8	889.30	263846	24.8712 ng/ml
Zolpidem	4.874	164304	26791.24	31.3	7385.67	307456	25.4413 ng/ml

B



# AM #28 Multi-Drug Quant. Results

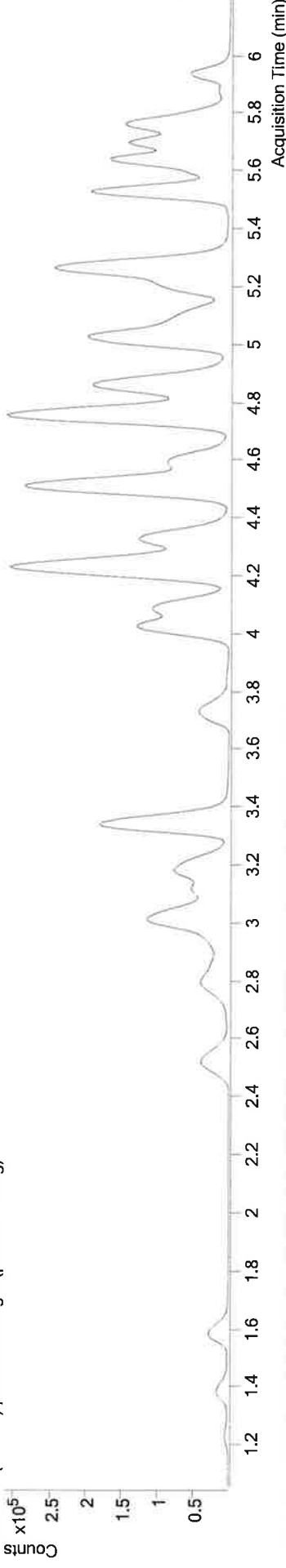
**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
**Calibration Last Update** 7/15/2019 8:48:42 AM

**Instrument Type** Falco Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-D1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 12:48:30 PM  
**Sample Info.**

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

## Sample Chromatogram

+TIC MRM (\*\* -> \*\*) p1 Cal 4-50ng.d (p1 Cal 4-50ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	7682	437.11	73.9	5940.66	48545	4.7747 ng/ml
7-aminoclonazepam	4.239	46642	569.79	82.0	1181.84	39547	53.8203 ng/ml
a-hydroxyalprazolam	5.679	12039	276.29	64.0	366.40	11823	48.8837 ng/ml
alpha-PVP	4.345	170160	13915.52	51.1	1129.67	154720	49.5698 ng/ml
Alprazolam	5.763	78949	995.30	105.0	1677.20	48442	49.2274 ng/ml
Amphetamine	3.021	220731	5170.97	53.4	4910.63	61747	54.4529 ng/ml
Benzoyllecgonine	3.855	4612	181.22	7.6	57.07	3436	49.6371 ng/ml
Buprenorphine	5.787	6614	236.28	16.8	51.16	57703	4.6296 ng/ml
Bupropion	4.767	573848	55226.45	58.9	12010.34	411382	50.1643 ng/ml
Carisoprodol	5.712	66477	∞	55.1	1787.95	69929	49.4994 ng/ml
Citalopram	5.206	116117	1348.01	42.4	3981.39	101708	50.5922 ng/ml
Clonazepam	5.592	7475	1590.18	37.7	1037.75	2517	50.9031 ng/ml
Cocaine	4.245	164735	101430.17	43.6	31790.65	313256	50.2804 ng/ml
Codine	2.549	21466	708.12	101.8	2451.53	19975	50.4447 ng/ml
Cyclobenzaprine	5.615	84188	3666.98	10.3	∞	66854	49.6095 ng/ml
Dextromethorphan	5.249	68504	5337.03	80.4	6090.73	65540	50.2425 ng/ml
Dextroprphan	4.101	63662	5723.11	203.7	4311.92	148133	50.1876 ng/ml
Diazepam	5.950	55535	1053.50	87.4	744.72	51370	50.2034 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	2.527	58810	43725.79	66.5	14220.91	63112	51.6069 ng/ml
Diphenhydramine	5.276	320237	61104.91	34.3	13535.71	345590	49.2413 ng/ml
Doxylamine	4.521	429618	38221.45	97.7	41748.71	377103	50.0703 ng/ml
Fentanyl	5.070	9763	916.26	72.3	3653.93	96415	4.9883 ng/ml
Fluoxetine	5.701	97064	702.96	9.2	10179.99	75503	50.0905 ng/ml
Hydrocodone	2.997	62048	∞	39.6	185.46	72290	50.7432 ng/ml
Hydromorphone	1.594	48725	904.26	76.1	475.26	35485	50.2803 ng/ml
Ketamine	4.027	147891	31278.04	37.8	1099.47	138559	50.3592 ng/ml
Lamotrigine	4.262	15474	3747.30	79.5	3874.95	138559	52.0326 ng/ml
Lorazepam	5.734	8941	115.99	61.5	21.14	2517	50.7909 ng/ml
Meprobamate	4.884	25995	1897.30	27.7	213.02	25673	50.0418 ng/ml
Methadone	5.647	170680	7859.41	50.0	∞	171575	49.8988 ng/ml
Methamphetamine	3.196	208384	1912.98	41.2	918.10	166714	51.4431 ng/ml
Metoprolol	4.307	47812	78531.34	91.4	∞	345242	54.2542 ng/ml
Mirtazapine	4.602	197820	28246.28	48.3	3897.34	154720	49.8463 ng/ml
Mitragynine	5.205	32624	2629.54	39.5	2318.85	171575	48.0569 ng/ml
Morphine	1.240	12273	562.13	23.8	739.69	3009	51.2327 ng/ml
Norbuprenorphine	4.980	954	179.05	98.5	493.31	8141	5.1638 ng/ml
Nordiazepam	5.889	13550	2890.26	59.3	416.68	8480	49.5462 ng/ml
Norfentanyl	4.062	22749	5325.53	35.9	∞	200065	4.9580 ng/ml
Norhydrocodone	3.039	17711	478.00	43.5	107.00	93760	43.0328 ng/ml
Noroxycodone	2.888	36669	214.14	49.0	179.87	27752	49.9907 ng/ml
O-desmethyl-tramadol	3.351	367134	12790.97	6.5	1633.04	342451	49.1400 ng/ml
Oxazepam	5.744	15252	32.53	67.0	103.85	10958	51.5408 ng/ml
Oxycodone	2.800	100855	793.36	32.2	∞	88425	48.6956 ng/ml
Oxymorphone	1.383	32020	884.14	48.7	436.70	25905	48.5240 ng/ml
Phentermine	3.753	67116	∞	3.8	81.90	140019	52.1481 ng/ml
Promethazine	5.532	150413	40598.56	29.2	3747.86	128286	50.4814 ng/ml
Quetiapine	5.535	162469	31591.73	59.9	1700.11	46297	50.1626 ng/ml
Sertraline	5.777	49311	862.78	91.9	1467.69	40689	49.2010 ng/ml
Temazepam	5.805	44277	351.29	33.8	298.88	41391	47.6410 ng/ml
Tramadol	4.220	343379	22416.69	3.5	460.49	345242	51.0465 ng/ml
Trazodone	5.104	125988	7712.02	78.9	3797.71	108426	48.7817 ng/ml
Venlafaxine	5.024	281768	23928.92	39.2	1441.06	279552	49.3206 ng/ml
Zolpidem	4.874	332358	32352.24	31.7	467.29	316896	50.0097 ng/ml

TS

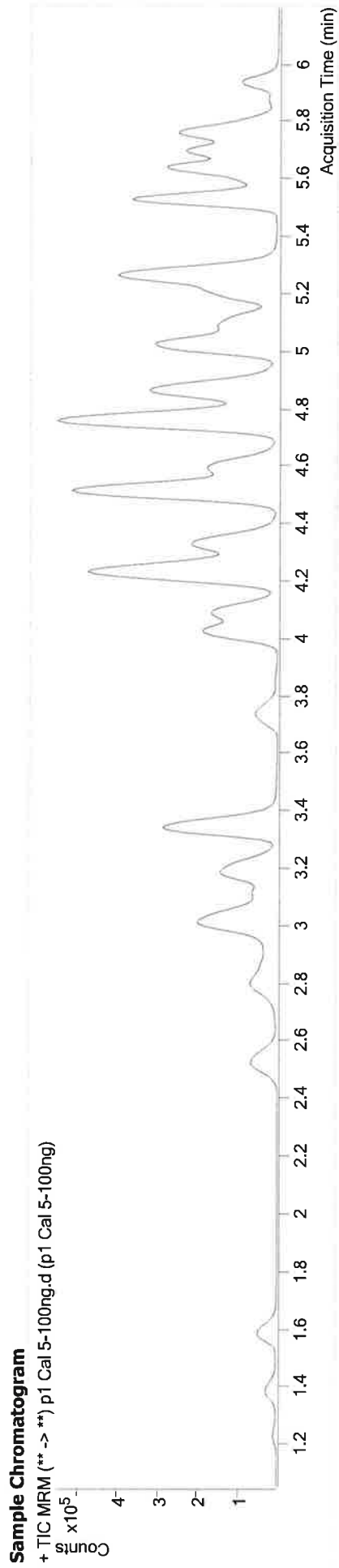


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
**Calibration Last Update** 7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-E1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 12:58:57 PM  
**Sample Info.**

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	16295	842.97	70.9	888.07	48649	10.0997 ng/ml
7-aminoclonazepam	4.239	93647	5449.12	81.4	5827.24	38551	113.3927 ng/ml
a-hydroxyalprazolam	5.679	25846	∞	60.1	614.78	11829	104.5248 ng/ml
alpha-PVP	4.345	354754	33658.67	51.7	∞	159578	100.1971 ng/ml
Alprazolam	5.763	161957	1972.27	102.7	3610.19	48360	101.0027 ng/ml
Amphetamine	3.021	437752	5965.75	55.5	15495.30	62493	107.4540 ng/ml
Benzoylcegonine	3.855	9174	439.14	7.6	357.60	3461	101.5258 ng/ml
Buprenorphine	5.787	13615	4326.41	17.9	2764.31	56137	9.6938 ng/ml
Bupropion	4.767	1187143	67455.70	58.7	14355.15	416163	102.9217 ng/ml
Carisoprodol	5.712	134042	491363.83	55.0	226.68	67182	103.8173 ng/ml
Citalopram	5.206	233500	19811.84	43.4	2037.70	101190	102.6721 ng/ml
Clonazepam	5.592	15794	1460.90	34.3	6284.98	2661	102.4393 ng/ml
Cocaine	4.245	336560	90550.45	43.2	54462.82	315451	102.4329 ng/ml
Codeine	2.549	43977	1619.33	100.4	16229.89	20171	102.9923 ng/ml
Cyclobenzaprine	5.615	187038	329086.66	10.3	30459.94	71393	103.3707 ng/ml
Dextromethorphan	5.249	143542	10073.62	79.1	12918.10	67414	102.6149 ng/ml
Dextrorphan	4.101	128761	10887.88	205.8	2475.92	147753	102.0275 ng/ml
Diazepam	5.950	113883	2983.33	88.1	2010.69	52119	101.6411 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	120061	704.43	66.4	39673.40	63937	104.4335 ng/ml
Diphenhydramine	5.276	665782	27258.38	34.3	1402.77	350168	101.3205 ng/ml
Doxylamine	4.521	892331	35771.68	97.8	78558.44	384024	102.5352 ng/ml
EDDP	5.242	19619	4956.63	42.7	136.78	11501	100.7847 ng/ml
Fentanyl	5.070	20631	13745.23	77.3	∞	101560	10.0186 ng/ml
Fluoxetine	5.701	210099	617.94	9.8	82068.10	82591	99.1405 ng/ml
Hydrocodone	2.991	126829	291.51	40.6	∞	71153	105.6472 ng/ml
Hydromorphone	1.587	98636	∞	76.4	791.92	35449	102.0048 ng/ml
Ketamine	4.027	304868	13941.17	38.5	752.77	142065	101.6433 ng/ml
Lamotrigine	4.262	31803	3451.15	78.2	1176.22	142065	105.2688 ng/ml
Lorazepam	5.734	18104	488.82	54.7	54.52	2661	101.4181 ng/ml
Meprobamate	4.884	52898	10457.31	28.8	579.86	25882	101.2477 ng/ml
Methadone	5.647	361864	16691.90	49.6	10569.32	177423	102.3914 ng/ml
Methamphetamine	3.196	423079	2334.69	42.3	5305.74	169030	103.8662 ng/ml
Metoprolol	4.307	96807	∞	90.5	∞	358194	106.7692 ng/ml
Mirtazapine	4.602	408601	78312.78	48.4	88505.58	159578	99.4159 ng/ml
Mitragynine	5.205	72697	5847.68	39.6	38348.91	177423	103.2864 ng/ml
Morphine	1.233	24640	8280.57	23.3	843.00	3098	100.1083 ng/ml
Norbuprenorphine	4.973	1998	2116.63	101.3	1427.80	8516	10.6414 ng/ml
Nordiazepam	5.889	28123	1388.09	56.6	1704.73	8481	102.8028 ng/ml
Norfentanyl	4.069	46891	7082.56	36.4	3556.23	203723	10.0311 ng/ml
Norhydrocodone	3.039	42853	683.07	43.4	144.02	94216	100.9807 ng/ml
Noroxycodone	2.881	76526	∞	48.2	544.12	28304	102.8835 ng/ml
O-desmethyl-tramadol	3.351	772823	76273.66	6.4	4038.80	350367	101.2545 ng/ml
Oxazepam	5.744	30272	184.57	71.3	65.17	11712	97.7463 ng/ml
Oxycodone	2.800	210766	∞	31.9	739.80	90844	99.3077 ng/ml
Oxymorphone	1.383	65585	1480.14	47.0	843.31	25262	102.2924 ng/ml
Phentermine	3.753	134513	1969.90	3.8	226.36	139547	105.4160 ng/ml
Promethazine	5.532	346234	61596.20	28.8	1204.58	147208	101.8389 ng/ml
Quetiapine	5.535	343813	27592.89	59.8	24017.09	47790	102.9505 ng/ml
Sertraline	5.777	110842	1145.99	90.6	1462.12	43496	103.6796 ng/ml
Temazepam	4.207	92804	721.61	30.8	56.00	40851	101.0142 ng/ml
Tramadol	5.825	704683	35733.11	3.6	668.87	358194	101.6336 ng/ml
Trazodone	5.104	273933	18938.99	79.5	40332.75	116563	98.5827 ng/ml
Venlafaxine	5.024	586505	71743.35	39.2	∞	281634	102.0300 ng/ml
Zolpidem	4.874	703713	285024.42	31.4	928615.27	326379	102.8977 ng/ml

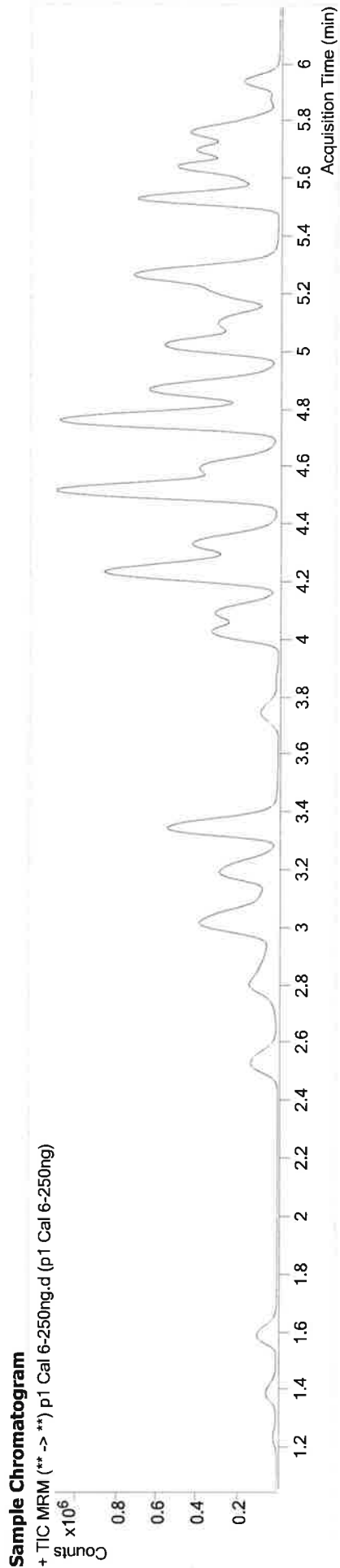
TS



# AM #28 Multi-Drug Quant. Results

**Batch results** Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-F1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 1:09:24 PM  
**Sample Info.** p1 Cal 6-250ng.d  
p1 Cal 6-250ng



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	38124	304.27	70.7	5383.09	45709	25.1404 ng/ml
7-aminoclonazepam	4.239	193356	30373.29	82.4	33403.82	33712	270.9925 ng/ml
a-hydroxyalprazolam	5.679	58243	1043.86	64.2	∞	11467	242.5494 ng/ml
alpha-PVP	4.345	812138	74570.21	51.0	23252.36	146000	250.7123 ng/ml
Alprazolam	5.763	348756	1130.55	106.1	∞	42652	246.3927 ng/ml
Amphetamine	3.021	909213	∞	55.8	42438.72	56368	248.4557 ng/ml
Benzoyllecgonine	3.862	21973	11770.20	7.6	124.60	3423	250.8942 ng/ml
Buprenorphine	5.787	27798	11524.74	16.3	∞	45585	24.2341 ng/ml
Bupropion	4.767	2632240	139706.67	58.4	56912.41	380491	250.0615 ng/ml
Carisoprodol	5.712	287056	585.83	56.5	591.30	61268	243.6992 ng/ml
Citalopram	5.206	502080	∞	43.3	22049.14	88203	253.8700 ng/ml
Clonazepam	5.592	37795	2138.82	35.0	896.99	2451	267.2836 ng/ml
Cocaine	4.251	766648	171698.01	43.2	30367.58	293524	251.3564 ng/ml
Codeine	2.549	97876	16973.60	101.5	87185.91	18137	255.8691 ng/ml
Cyclobenzaprine	5.615	385819	27198.97	10.2	2258.91	60538	251.6809 ng/ml
Dextromethorphan	5.249	300172	54855.44	79.7	39998.50	58030	249.6504 ng/ml
Dextroprphan	4.101	294275	95744.94	206.0	332767.72	139070	248.0943 ng/ml
Diazepam	5.950	255198	8357.27	87.7	1088.74	48039	247.3550 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	275492	177615.52	66.8	59675.12	61009	251.7351 ng/ml
Diphenhydramine	5.276	1439733	92759.42	34.2	∞	304646	252.2439 ng/ml
Doxylamine	4.521	2117309	134591.30	97.8	100366.96	371009	252.4047 ng/ml
EDDP	5.242	65156	1844.50	42.1	818.26	15344	243.0400 ng/ml
Fentanyl	5.070	43191	2139.01	77.8	905.69	87324	24.4086 ng/ml
Fluoxetine	5.701	423748	761.08	9.4	888.21	66358	248.9073 ng/ml
Hydrocodone	2.997	289460	489.03	41.8	250.26	71722	239.5179 ng/ml
Hydromorphone	1.594	230384	800.09	76.1	750.30	34189	247.1990 ng/ml
Ketamine	4.027	711149	45053.13	37.9	1480.18	135045	249.9875 ng/ml
Lamotrigine	4.269	68865	1798.61	79.2	6341.13	135045	241.0312 ng/ml
Lorazepam	5.734	42233	590.09	55.2	71.87	2451	263.7911 ng/ml
Meprobamate	4.884	121620	14750.87	28.5	614.03	24147	249.8474 ng/ml
Methadone	5.647	782860	3300.30	49.4	27114.26	154444	254.5937 ng/ml
Methamphetamine	3.196	937653	4949.46	41.5	8617.17	155914	250.7524 ng/ml
Metoprolol	4.307	211769	340686.60	91.4	∞	336946	249.5297 ng/ml
Mirtazapine	4.602	917271	176792.25	48.2	119669.87	146000	243.3435 ng/ml
Mitragynine	5.205	153098	1396.21	39.6	121621.09	154444	249.5493 ng/ml
Morphine	1.240	53810	698.37	23.7	3166.08	2737	247.7983 ng/ml
Norbuprenorphine	4.973	4253	1231.63	91.5	315.11	7576	25.8713 ng/ml
Nordiazepam	5.889	64804	∞	58.6	1310.07	8083	248.5398 ng/ml
Norfentanyl	4.069	111098	18704.96	36.3	845.43	193597	25.0022 ng/ml
Norhydrocodone	3.046	115231	1300.66	43.0	∞	92564	273.1303 ng/ml
Noroxycodone	2.881	175989	∞	48.1	∞	26646	252.1405 ng/ml
O-desmethyl-tramadol	3.351	1828632	46362.42	6.4	5611.29	337162	249.1771 ng/ml
Oxazepam	5.737	67782	239.19	69.9	72.80	10521	247.1857 ng/ml
Oxycodone	2.800	502743	334.64	30.9	248.59	88911	242.3826 ng/ml
Oxymorphone	1.390	149804	2163.89	46.7	1150.21	23390	252.8450 ng/ml
Phentermine	3.759	283134	5991.00	3.8	509.13	126576	245.3404 ng/ml
Promethazine	5.532	715469	46314.12	28.7	2775.03	121367	256.1096 ng/ml
Quetiapine	5.535	766523	101798.81	60.0	286416.46	44192	248.3657 ng/ml
Sertraline	5.777	199189	11028.45	92.4	∞	33083	245.2325 ng/ml
Temazepam	5.812	214600	912.27	30.9	227.64	39040	244.2139 ng/ml
Tramadol	4.227	1578515	161194.78	3.6	3717.59	336946	242.9568 ng/ml
Trazodone	5.110	615421	43281.94	79.4	89970.88	103730	248.7594 ng/ml
Venlafaxine	5.024	1357763	216471.14	39.3	13069.90	267655	248.7072 ng/ml
Zolpidem	4.874	1655905	140369.90	31.4	135757.77	317160	249.2830 ng/ml

TS

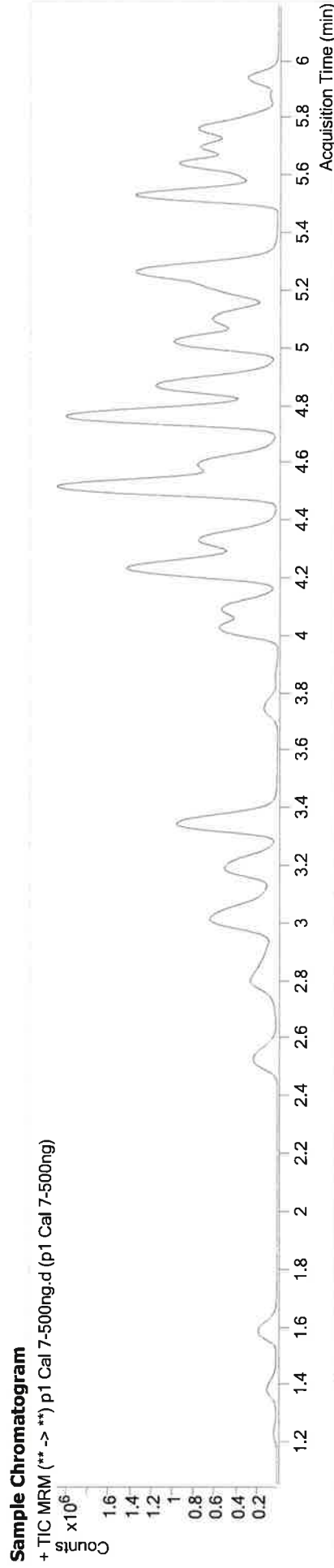


# AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wk1st 3537 TS\_correct.batch.bin  
7/15/2019 8:48:42 AM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-G1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 1:19:51 PM  
**Sample Info.**

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	72357	1383.93	73.0	2044.77	42620	51.1681 ng/ml
7-aminoclonazepam	4.239	308149	14593.57	83.2	14423.75	28808	507.4783 ng/ml
a-hydroxyvalprazolam	5.679	113136	∞	61.8	804.02	11112	485.8856 ng/ml
alpha-PVP	4.345	1568332	55998.25	51.6	∞	142278	496.8168 ng/ml
Alprazolam	5.763	637256	4377.88	104.0	3176.80	38791	494.8876 ng/ml
Amphetamine	3.021	1572015	37460.46	55.8	44448.58	51906	467.1859 ng/ml
Benzoyllecgonine	3.855	46611	691.10	7.6	∞	3733	491.4876 ng/ml
Buprenorphine	5.794	50389	550.37	16.3	3453.94	41040	48.7013 ng/ml
Bupropion	4.767	5096384	343491.04	58.3	44710.60	368594	500.1027 ng/ml
Carisoprodol	5.712	508944	461.11	54.6	9945.28	53641	493.4390 ng/ml
Citalopram	5.206	956291	47873.64	43.2	4044797.3	85780	497.5882 ng/ml
Clonazepam	5.592	74345	574.62	34.8	141206.92	2659	485.1709 ng/ml
Cocaine	4.251	1436712	342445.86	43.0	94034.84	277706	498.2809 ng/ml
Codeine	2.549	183591	7854.84	101.1	12735.09	17035	511.6081 ng/ml
Cyclobenzaprine	5.615	810202	31066.57	10.1	26080.39	64896	493.1690 ng/ml
Dextromethorphan	5.249	592646	31076.95	79.4	673435.36	57695	496.0110 ng/ml
Dextrorphan	4.101	556258	133941.41	206.3	607333.14	130578	499.7205 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diazepam	5.943	467283	9276.33	87.1	5715.18	44398	490.2262 ng/ml
Dihydrocodeine	2.520	514241	50738.70	67.2	57911.93	59637	481.0966 ng/ml
Diphenhydramine	5.283	2783318	100198.09	34.1	19910.08	296687	500.9916 ng/ml
Doxylamine	4.521	4187833	∞	98.0	190756.67	371496	498.9640 ng/ml
EDDP	5.242	388101	27353.75	42.6	1200.63	43361	506.4484 ng/ml
Fentanyl	5.070	92041	3570.04	77.6	5038.00	91969	49.3999 ng/ml
Fluoxetine	5.701	890405	972.23	9.6	1189.16	69994	495.8743 ng/ml
Hydrocodone	2.991	571677	607.68	40.9	∞	69210	490.4727 ng/ml
Hydromorphone	1.587	449652	∞	75.8	666.80	33712	489.4168 ng/ml
Ketamine	4.027	1383743	7894.15	37.9	50653.29	132535	496.0146 ng/ml
Lamotrigine	4.269	118479	5818.71	78.7	8677.39	132535	423.2612 ng/ml
Lorazepam	5.734	81170	920.58	56.2	338.33	2659	470.7948 ng/ml
Meprobamate	4.890	223646	14446.80	28.9	1814.95	22073	502.8522 ng/ml
Methadone	5.647	1560936	81230.51	50.6	73754.49	157028	499.3567 ng/ml
Methamphetamine	3.196	1710063	16737.08	41.7	9187.19	147919	482.8149 ng/ml
Metoprolol	4.307	368562	50330.46	90.6	∞	308485	475.1903 ng/ml
Mirtazapine	4.602	1833190	248269.77	48.3	88316.16	142278	498.6208 ng/ml
Mitragynine	5.205	324090	14224.02	39.6	101504.26	157028	519.3168 ng/ml
Morphine	1.233	101354	∞	23.6	356.81	2610	489.7075 ng/ml
Norbuprenorphine	4.966	8301	483.68	100.9	3452.37	7771	49.4966 ng/ml
Nordiazepam	5.889	125442	∞	57.5	1713.59	7862	494.6408 ng/ml
Norfentanyl	4.062	214963	25627.04	36.2	6389.34	187252	50.0109 ng/ml
Norhydrocodone	3.046	235955	∞	43.2	654.15	88601	582.1645 ng/ml
Noroxycodone	2.881	321422	1033.70	47.9	1012.38	25295	485.6213 ng/ml
O-desmethyl-tramadol	3.351	3546176	325509.70	6.5	11199.78	327289	497.9357 ng/ml
Oxazepam	5.737	129435	492.40	69.6	92.97	9874	505.4217 ng/ml
Oxycodone	2.800	999144	426.83	30.7	639.52	84566	506.7278 ng/ml
Oxymorphone	1.383	285405	3073.62	46.6	∞	22481	501.5325 ng/ml
Phentermine	3.759	514720	∞	3.8	450.15	117596	480.5894 ng/ml
Promethazine	5.532	1540564	234584.40	29.1	9413.86	133519	501.8154 ng/ml
Quetiapine	5.535	1508675	674641.13	59.1	73824.81	43593	495.6602 ng/ml
Setraline	5.777	403307	8691.06	90.9	65468.23	33042	497.3594 ng/ml
Temazepam	5.805	411138	1940.97	29.7	438.82	36457	500.8818 ng/ml
Tramadol	4.220	2948229	102257.36	3.6	5757.77	308485	496.3473 ng/ml
Trazodone	5.110	1348671	54983.66	77.9	379762.98	112854	500.9969 ng/ml
Venlafaxine	5.024	2616576	699579.16	39.0	103838.39	257245	498.8044 ng/ml
Zolpidem	4.874	3246152	212803.00	31.7	276515.02	315416	491.4640 ng/ml

TS



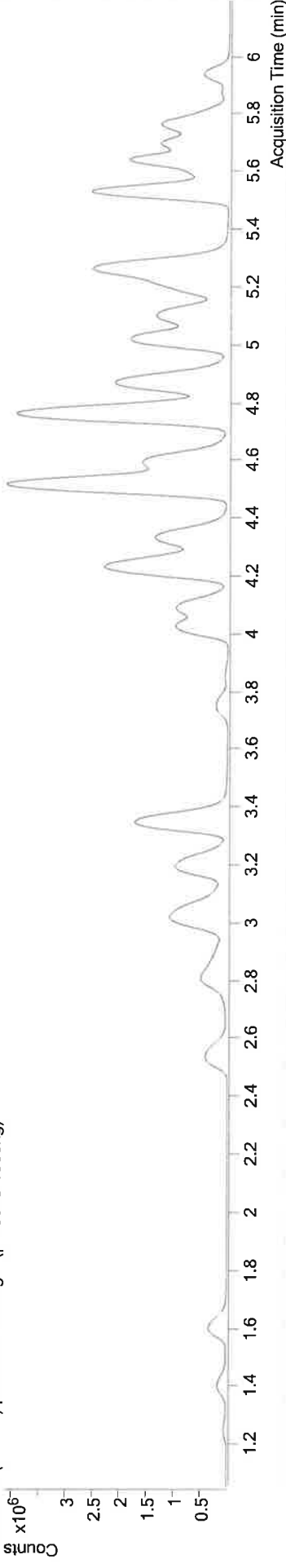
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\AM 28\071119 MDQ P1 TS\QuantResults\071119 wklist 3537 TS\_correct.batch.bin  
**Calibration Last Update** 7/15/2019 8:48:42 AM

**Instrument Type** Falco Cal  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-H1  
**Injection Volume** 1  
**Acq. Date-Time** 7/11/2019 1:33:09 PM  
**Sample Info.** p1 Cal 8-1000ng.d  
 p1 Cal 8-1000ng

## Sample Chromatogram

+TIC MRM (\*\*->\*\*) p1 Cal 8-1000ng.d (p1 Cal 8-1000ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	136587	1203.91	72.4	1224.65	39535	104.1191 ng/ml
7-aminoclonazepam	4.232	418932	22203.28	81.4	10663.50	20863	954.7649 ng/ml
a-hydroxyalprazolam	5.679	198284	804.01	61.3	2431.05	9314	1015.6746 ng/ml
alpha-PVP	4.345	2995386	114633.49	50.9	93289.80	135436	996.8160 ng/ml
Alprazolam	5.763	1038522	1379.66	102.9	1483.09	31005	1008.8647 ng/ml
Amphetamine	3.028	2638937	18774.62	56.1	43138.65	49469	823.4941 ng/ml
Benzoyllecgonine	3.862	99351	∞	7.4	∞	3905	1005.0830 ng/ml
Buprenorphine	5.794	89768	299.72	15.9	3740.61	34683	102.5615 ng/ml
Bupropion	4.767	10215118	2155365.06	58.8	115809.06	370771	996.8339 ng/ml
Carisoprodol	5.712	768842	31271.82	55.6	∞	40831	979.2125 ng/ml
Citalopram	5.200	1810895	34175.71	43.2	37948.95	81235	995.3853 ng/ml
Clonazepam	5.592	137252	8443.70	34.1	59143.69	2397	994.5205 ng/ml
Cocaine	4.251	2579641	343710.95	42.4	165641.01	249164	997.5672 ng/ml
Codeine	2.563	315296	2081.98	104.2	43194.93	15296	979.1341 ng/ml
Cyclobenzaprine	5.609	1655805	37633.61	10.2	218.08	65262	1002.3916 ng/ml
Dextromethorphan	5.249	1162980	162615.06	80.1	552409.90	56863	987.8392 ng/ml
Dextroproprian	4.101	1053100	96873.78	204.7	16641.52	123594	999.7746 ng/ml
Diazepam	5.950	785453	11056.38	87.2	7987.31	37606	973.0210 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.527	941757	103225.35	66.9	69359.79	57674	911.4337 ng/ml
Diphenhydramine	5.283	5365287	245075.22	34.4	45497.04	287752	995.9944 ng/ml
Doxylamine	4.521	8448201	441290.82	97.3	478282.91	375568	996.0496 ng/ml
EDDP	5.242	947770	45381.77	42.3	31876.52	52973	1007.0962 ng/ml
Fentanyl	5.070	195263	11715.16	79.7	12059.50	93970	102.5813 ng/ml
Fluoxetine	5.701	1689434	161864.78	9.4	856.36	66388	991.9901 ng/ml
Hydrocodone	2.997	1066728	730.62	42.1	∞	67015	945.4061 ng/ml
Hydromorphone	1.608	849302	∞	75.7	1572.37	32274	965.7105 ng/ml
Ketamine	4.027	2580061	4096.47	37.9	6955.13	127707	960.1750 ng/ml
Lamotrigine	4.269	174025	8194.58	79.5	22472.48	127707	645.7050 ng/ml
Lorazepam	5.734	152607	3320.95	55.3	∞	2397	986.9716 ng/ml
Meprobamate	4.897	373106	36034.43	29.2	3972.24	18845	982.8297 ng/ml
Methadone	5.647	3207753	53790.37	50.2	94311.01	162175	993.7035 ng/ml
Methamphetamine	3.203	3330007	29122.20	41.6	38370.84	150961	922.0137 ng/ml
Metoprolol	4.307	599667	41893.29	91.3	∞	285547	835.9742 ng/ml
Mirtazapine	4.602	3840626	177340.74	48.2	190581.82	135436	1096.9215 ng/ml
Mitragynine	5.205	626566	51695.07	39.7	17745.10	162175	971.9349 ng/ml
Morphine	1.253	174019	1005.87	24.1	469.14	2281	962.1064 ng/ml
Norbuprenorphine	4.973	18154	2215.12	97.0	3089.99	8534	98.8642 ng/ml
Nordiazepam	5.889	218324	1992.97	58.5	∞	6931	976.5193 ng/ml
Norfentanyl	4.062	384786	44670.04	36.7	5307.80	165640	101.1957 ng/ml
Norhydrocodone	3.053	464942	∞	42.8	∞	81423	1246.1130 ng/ml
Noroxycodone	2.888	591326	608.43	49.8	∞	24424	925.7752 ng/ml
O-desmethyl-tramadol	3.351	6692756	204400.65	6.5	28645.04	312811	983.3995 ng/ml
Oxazepam	5.737	245305	687.35	71.8	587.72	9467	1001.3589 ng/ml
Oxycodone	2.806	1962580	∞	30.7	268.67	84573	995.5022 ng/ml
Oxymorphone	1.403	524872	1470.47	47.0	2029.00	21583	961.0216 ng/ml
Phentermine	3.759	924413	5641.77	3.8	2003.97	111598	909.9870 ng/ml
Promethazine	5.532	3188246	131441.91	29.3	4716.13	140126	990.1113 ng/ml
Quetiapine	5.542	2857230	373803.93	59.5	99347.18	43485	941.1527 ng/ml
Sertraline	5.777	715472	33407.31	92.3	59496.41	28937	1007.7142 ng/ml
Temazepam	5.812	746720	3086.47	29.9	1532.99	32288	1027.0134 ng/ml
Tramadol	4.220	5236119	352419.12	3.6	3550.05	285547	952.9607 ng/ml
Trazodone	5.110	2926245	78819.56	78.7	278500.84	116905	1049.2702 ng/ml
Venlafaxine	5.024	5110814	91338.09	39.1	∞	250395	1001.0606 ng/ml
Zolpidem	4.874	6179028	272660.41	31.6	97067.81	307205	960.5826 ng/ml

TS