

**REVIEWED**

By Anne Nord at 1:41 pm, Jun 17, 2019

6/14/2019

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**Worklist: 3479**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-2175	1	154847	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2338	1	154848	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2366	2	154849	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1446	1	154850	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1497	1	154851	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1524	1	154852	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1525	1	154853	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1526	1	154854	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1585	1	154855	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1586	1	154856	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1587	1	154857	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1616	1	154858	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1617	1	154859	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1618	1	154860	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1621	1	154861	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1635	2	154862	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1670	1	154863	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1671	1	154864	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 6/14/19

Analyst: Sarah Pickle

Plate lot#: 190124 Item #: IDP-111

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:** 445283-2

**Column:** ~~Agilent 120 EC C18 (2.1x100-4um)~~  $\bar{\varphi}$

**LCMS-QQ ID:** 069901

Agilent 120 EC-C18 (2.1 x 100-2.7um) 10/2/19

### 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 **250  $\mu$ L 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 **250  $\mu$ L 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300  $\mu$ L 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 **900  $\mu$ L ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900  $\mu$ L 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 **100  $\mu$ L 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\061419\MDQ P1 P2 SP* Batch Name: *MDQ P1*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values  $\geq 0.98$  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: **Curve Range Limited:** EDDP 10-1000, Lamotrigine 5-500, Lorazepam 25-1000, Mirtazapine 5-250, Norhydrocodone 5-250, Oxazepam 25-1000

Sertraline reported qualitatively due to variable internal standard responses

Did not evaluate EDDP for M2019-2338-1 and P2019-1587-1 due to low internal standard responses.

Negative control reinjected 6/14/19 due to carryover.

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## Idaho State Police Forensic Services

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

**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)**

*50 ul of methanol external control solution was added to 9950 ul of blood.*

*Approximately 50ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
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**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
6/17/2019 12:02:45 PM

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

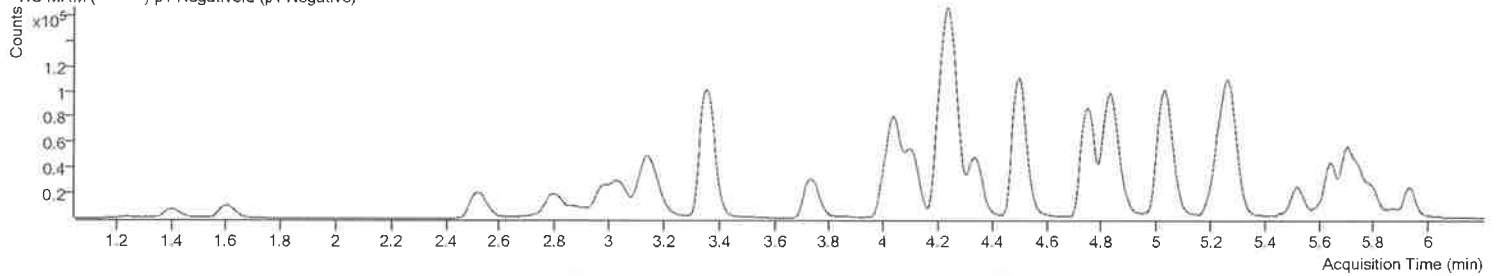
Falco  
Sample  
MDQ P1 Combined 011619.m  
P1-E2  
1  
6/14/2019 6:07:19 PM

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

p1 Negative.d  
p1 Negative

## Sample Chromatogram

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



Due to potential carryover, negative reinjected  
6/14/19.

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# AM #28 Multi-Drug Quant. Results

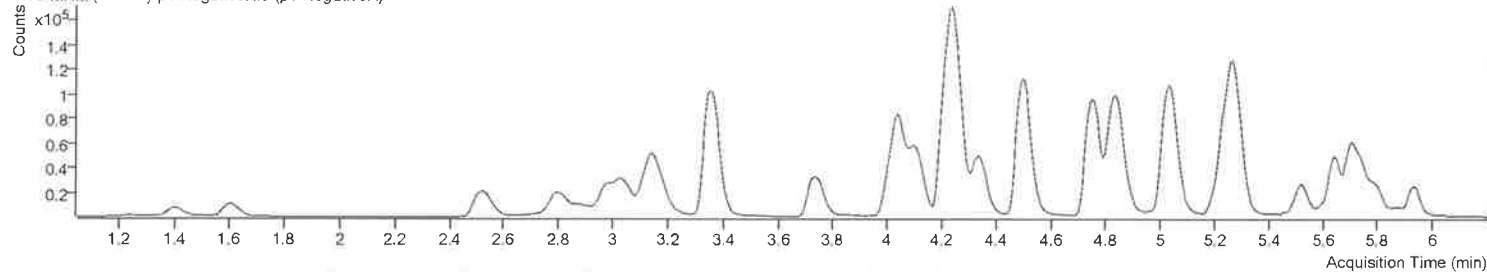


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

<b>Instrument Type</b>	Falco	<b>Data File</b>	p1 NegativeR.d
<b>Acq. Method</b>	MDQ P1 Combined 011619.m	<b>Sample</b>	p1 NegativeR
<b>Sample Position</b>	P1-E2	<b>Operator</b>	
<b>Injection Volume</b>	1	<b>Comment</b>	
<b>Acq. Date-Time</b>	6/14/2019 11:00:08 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

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



Negative control reinject.

# AM #28 Multi-Drug Quant. Results

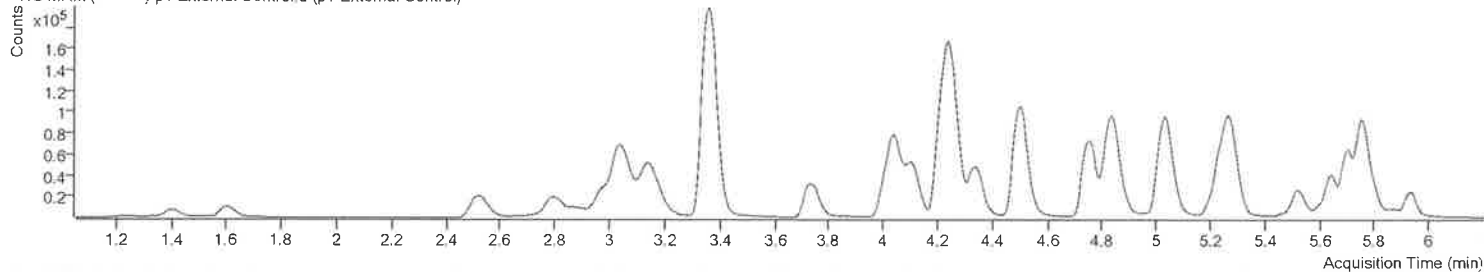


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 External Control.d
<b>Type</b>	Sample	<b>Sample</b>	p1 External Control
<b>Acq. Method</b>	MDQ P1 Combined 011619.m	<b>Operator</b>	
<b>Sample Position</b>	P1-F2	<b>Comment</b>	
<b>Injection Volume</b>	1		
<b>Acq. Date-Time</b>	6/14/2019 6:28:14 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.765	86555	1577.76	104.2	1612.88	56650	46.7556 ng/ml
Amphetamine	3.048	127041	2860.42	53.8	2430.31	40561	46.4549 ng/ml
Fluoxetine	5.703	18173	570.31	9.4	609.25	19716	35.6969 ng/ml
O-desmethyl-tramadol	3.365	363133	15719.08	6.4	715.26	387350	43.1420 ng/ml

# AM #28 Multi-Drug Quant. Results



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

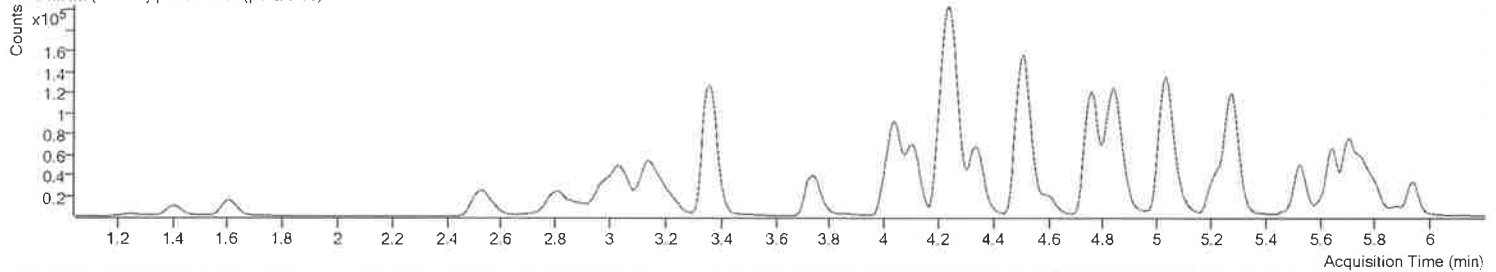
D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
 6/17/2019 12:02:45 PM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-A2  
**Injection Volume** 1  
**Acq. Date-Time** 6/14/2019 4:22:41 PM  
**Sample Info.**

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

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p1 QC 10.d (p1 QC 10)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	2431	181.77	75.7	178.30	82993	0.9021 ng/ml
7-aminoclonazepam	4.246	5527	7176.02	82.5	302.79	22778	10.1379 ng/ml
a-hydroxyalprazolam	5.687	3248	106.68	66.1	56.90	14584	11.1071 ng/ml
alpha-PVP	4.352	36074	4111.93	51.7	1458.82	164271	9.9769 ng/ml
Alprazolam	5.765	20661	619.04	104.7	391.71	58871	10.8639 ng/ml
Amphetamine	3.048	44516	772.05	51.7	533.12	57515	10.7711 ng/ml
Benzoylcegonine	3.869	1468	61.00	8.3	23.99	4104	9.1474 ng/ml
Buprenorphine	5.740	1681	12.61	18.3	∞	62861	1.0965 ng/ml
Bupropion	4.775	97993	1084.77	58.1	1250.77	323686	10.8811 ng/ml
Carisoprodol	5.713	18008	∞	57.0	23.68	92273	10.1028 ng/ml
Citalopram	5.214	20193	2437.41	40.9	306.93	82349	10.6205 ng/ml
Clonazepam	5.600	1752	182.88	31.4	110.06	2815	10.0088 ng/ml
Cocaine	4.252	38552	401.85	42.9	9097.78	368340	10.0257 ng/ml
Codeine	2.577	5206	186.91	102.3	1112.39	23264	9.8943 ng/ml
Cyclobenzaprine	5.617	6885	8015.02	11.4	∞	23879	11.3148 ng/ml
Dextromethorphan	5.257	10161	623.08	78.2	6006.94	47704	9.9660 ng/ml
Dextrorphan	4.115	15638	2521.56	207.5	2816.33	170073	10.6102 ng/ml
Diazepam	5.944	13108	178.73	88.5	462.59	58036	10.5014 ng/ml

p1 QC 10

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.547	14095	4041.18	66.5	22361.78	73358	10.4308 ng/ml	
Diphenhydramine	5.284	57026	575.56	33.2	191.20	281943	10.7096 ng/ml	
Doxylamine	4.521	99730	588.03	97.2	6752.58	421579	10.1759 ng/ml	
EDDP	5.250	3127	2089.98	41.7	∞	15476	11.5557 ng/ml	
Fentanyl	5.071	1042	2746.87	65.0	1024.10	48070	1.0979 ng/ml	
Fluoxetine	5.703	6414	993.93	9.8	∞	19312	12.6553 ng/ml	
Hydrocodone	3.011	14243	161.99	40.4	99.50	78076	10.6147 ng/ml	
Hydromorphone	1.614	11553	477.31	74.8	224.81	40784	10.2685 ng/ml	
Ketamine	4.035	31578	3020.51	36.4	461.04	142766	10.1120 ng/ml	
Lamotrigine	4.276	3131	123.99	83.6	290.22	142766	9.5021 ng/ml	
Lorazepam	5.736	2017	24.34	45.5	1.71 Low	2815	4.0766 ng/ml	outside curve range
Meprobamate	4.898	6606	471.56	30.4	176.85	30523	10.2726 ng/ml	
Methadone	5.648	27238	1826.93	50.5	1989.35	119017	11.3853 ng/ml	
Methamphetamine	3.217	41673	226.33	41.4	405.31	160822	10.3884 ng/ml	
Metoprolol	4.314	10950	1594.35	89.7	∞	394128	10.3487 ng/ml	
Mirtazapine	4.603	36971	6996.74	47.6	7626.08	164271	9.5879 ng/ml	
Mitragynine	5.206	3931	2739.60	40.3	3061.51	119017	8.4131 ng/ml	
Morphine	1.253	2917	3468.55	23.4	1145.78	3776	9.7192 ng/ml	
Norbuprenorphine	4.987	223	39.47	96.9	115.56	7120	1.0752 ng/ml	
Nordiazepam	5.890	2970	2279.54	58.6	233.02	9426	9.8451 ng/ml	
Norfentanyl	4.076	4895	1166.83	37.8	252.57	215039	0.9752 ng/ml	
Norhydrocodone	3.059	2833	74.22	44.3	60.88	94110	8.2011 ng/ml	
Noroxycodone	2.908	8525	251.50	46.8	71.65	30242	10.4009 ng/ml	
O-desmethyl-tramadol	3.365	88253	6378.47	6.7	980.87	391373	10.2449 ng/ml	
Oxazepam	5.745	1928	13.81	30.1 Low	2.61 Low	6645	10.7349 ng/ml	outside curve range
Oxycodone	2.827	23186	206.32	31.2	227.09	95924	9.8270 ng/ml	
Oxymorphone	1.410	7753	135.72	47.4	239.16	28664	10.4335 ng/ml	
Phentermine	3.773	15026	612.04	3.9	34.28	149771	10.3558 ng/ml	
Promethazine	5.533	14196	444.33	27.6	119.74	48509	12.1332 ng/ml	
Quetiapine	5.530	28981	15419.81	58.0	532.39	36207	11.6419 ng/ml	
Sertraline	5.772	3434	44.92	85.1	121.23	9573	14.3426 ng/ml	
Temazepam	5.806	11262	66.63	36.0	10.82	49919	10.0694 ng/ml	
Tramadol	4.234	85658	7229.11	3.5	107.60	394128	10.8018 ng/ml	
Trazodone	5.091	16473	2733.96	78.4	1911.18	64180	11.0996 ng/ml	
Venlafaxine	5.032	65447	4681.99	37.9	261.35	314417	9.9225 ng/ml	
Zolpidem	4.855	75561	7358.63	31.5	1449.66	358898	9.9662 ng/ml	



# AM #28 Multi-Drug Quant. Results



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

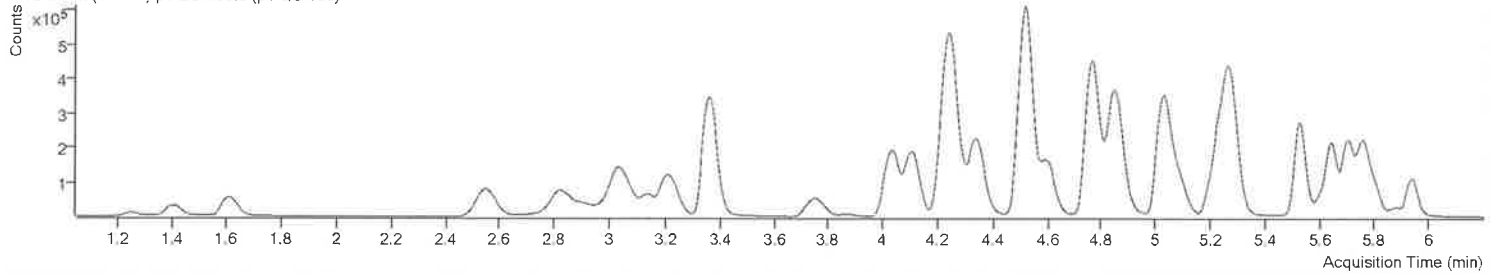
D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
 6/17/2019 12:02:45 PM

**Instrument** Falco  
**Type** QC  
**Acq. Method** MDQ P1 Combined 011619.m  
**Sample Position** P1-B2  
**Injection Volume** 1  
**Acq. Date-Time** 6/14/2019 4:43:36 PM  
**Sample Info.**

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

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p1 QC 100.d (p1 QC 100)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.137	24853	568.31	72.3	704.37	81414	9.2580 ng/ml
7-aminoclonazepam	4.253	63664	304.05	82.5	3939.72	27169	105.0998 ng/ml
a-hydroxyalprazolam	5.687	30777	800.26	63.7	647.22	14749	99.5440 ng/ml
alpha-PVP	4.352	349187	22128.16	51.3	8359.68	157763	100.1155 ng/ml
Alprazolam	5.765	194449	∞	105.5	4013.26	58149	102.1375 ng/ml
Amphetamine	3.048	224266	2909.01	52.5	75759.55	31642	106.3105 ng/ml
Benzoylcegonine	3.869	10714	1739.83	7.8	63.02	4278	97.1825 ng/ml
Buprenorphine	5.740	14011	301.21	15.8	∞	58622	10.1126 ng/ml
Bupropion	4.775	930627	94613.54	58.9	9023.98	319154	106.2795 ng/ml
Carisoprodol	5.713	177729	37965.51	56.1	2383.79	91972	101.0242 ng/ml
Citalopram	5.214	187597	519.66	43.0	2701.57	81135	102.7641 ng/ml
Clonazepam	5.600	17221	8123.61	36.3	11004.25	2721	111.0049 ng/ml
Cocaine	4.259	369998	∞	44.1	27453.17	360725	100.4385 ng/ml
Codeine	2.577	49505	516.89	102.1	12847.21	22284	105.1310 ng/ml
Cyclobenzaprine	5.617	97176	20499.23	10.0	1850.86	38701	99.3132 ng/ml
Dextromethorphan	5.257	99062	1009.21	79.1	12532.02	49886	93.8401 ng/ml
Dextrorphan	4.115	152547	2591.00	202.9	52765.72	167782	107.8655 ng/ml
Diazepam	5.944	131729	2143.46	87.3	2919.32	58436	105.5421 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	136676	22870.59	66.9	349.03	73785	104.7952 ng/ml
Diphenhydramine	5.284	536564	43843.39	33.8	12386.98	275427	104.0012 ng/ml
Doxylamine	4.521	993544	41307.99	97.6	109231.42	427077	102.7583 ng/ml
EDDP	5.250	328164	3776.89	42.9	125161.45	177793	95.0353 ng/ml
Fentanyl	5.071	11727	2591.27	73.8	23090.88	58940	9.9451 ng/ml
Fluoxetine	5.703	101927	275.71	9.4	12438.89	37694	105.3424 ng/ml
Hydrocodone	3.011	140805	∞	39.5	132.15	79710	107.4467 ng/ml
Hydromorphone	1.614	107344	2539.25	75.5	392.98	40222	98.9015 ng/ml
Ketamine	4.035	293650	19965.33	37.7	1989.80	138622	100.2254 ng/ml
Lamotrigine	4.276	33656	615.11	76.8	2297.39	138622	111.7588 ng/ml
Lorazepam	5.736	20971	345.99	52.6	33.26	2721	112.3039 ng/ml
Meprobamate	4.898	63676	473.83	28.6	725.10	30470	98.9043 ng/ml
Methadone	5.648	272791	834.96	50.8	5054.58	127117	106.0277 ng/ml
Methamphetamine	3.217	335864	1940.47	42.4	812.57	143506	97.7296 ng/ml
Metoprolol	4.314	105595	32542.75	90.8	5714.20	407057	104.5863 ng/ml
Mirtazapine	4.603	351725	35862.80	47.4	21280.18	157763	115.5455 ng/ml
Mitragynine	5.206	44838	1471.51	38.4	∞	127117	81.7995 ng/ml
Morphine	1.253	27039	18497.84	24.1	12602.22	3718	93.4607 ng/ml
Norbuprenorphine	4.981	1703	102.13	100.0	423.87	7420	10.2145 ng/ml
Nordiazepam	5.890	30380	32557.92	58.3	10999.04	9942	95.1323 ng/ml
Norfentanyl	4.076	54139	1997.57	35.8	1570.57	231951	10.0125 ng/ml
Norhydrocodone	3.066	40570	1089.31	43.5	476.42	100519	91.1286 ng/ml
Noroxycodone	2.908	81999	∞	47.6	∞	29980	102.9802 ng/ml
O-desmethyl-tramadol	3.365	884958	148326.51	6.4	1680.51	399068	102.2883 ng/ml
Oxazepam	5.745	17868	70.12	77.9	31.09	6896	96.6077 ng/ml
Oxycodone	2.827	225910	∞	32.0	212.66	96617	101.9339 ng/ml
Oxymorphone	1.410	72413	776.82	48.4	707.63	27701	104.3416 ng/ml
Phentermine	3.773	122509	1779.70	4.0	90.57	128755	103.5065 ng/ml
Promethazine	5.533	191917	944.45	28.7	6621.60	80734	100.3671 ng/ml
Quetiapine	5.530	290088	4223.40	59.5	1775.00	39241	107.6548 ng/ml
Sertraline	5.772	48817	258.82	97.1	2678.11	19074	101.6215 ng/ml
Temazepam	5.806	110070	2144.91	31.3	92.54	49273	99.9620 ng/ml
Tramadol	4.234	798862	41977.06	3.5	697.36	407057	103.3857 ng/ml
Trazodone	5.091	190065	37242.19	79.0	576.50	78071	93.7991 ng/ml
Venlafaxine	5.032	637984	1336.95	38.3	3057.48	305983	103.0149 ng/ml
Zolpidem	4.855	784086	31590.27	31.4	17017.86	373339	101.3346 ng/ml

# AM #28 Multi-Drug Quant. Results

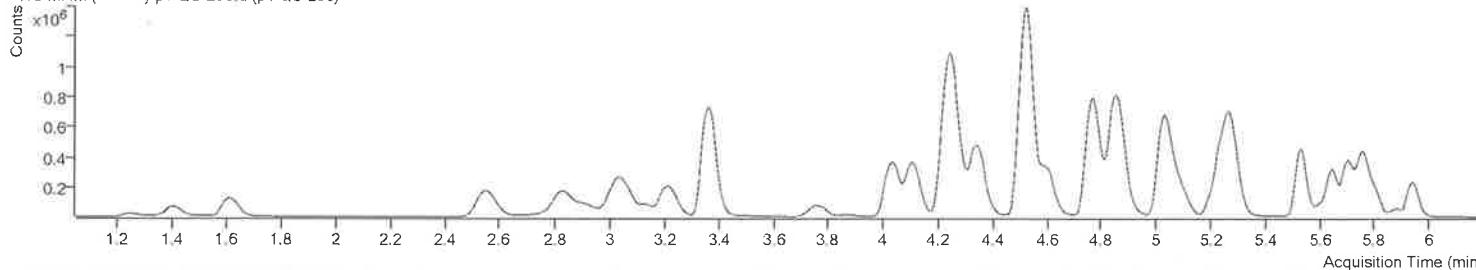


Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin 6/17/2019 12:02:45 PM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info Falco QC MDQ P1 Combined 011619.m P1-C2 1 6/14/2019 5:04:32 PM Data File Sample Operator Comment p1 QC 250.d p1 QC 250

## Sample Chromatogram

+ TIC MRM (\*\* -> \*\*) p1 QC 250.d (p1 QC 250)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	63285	2372.10	72.3	803.23	83985	22.8304 ng/ml
7-aminoclonazepam	4.246	163031	4436.46	81.0	2595.61	28279	259.7864 ng/ml
a-hydroxyalprazolam	5.680	76343	711.53	64.0	1262.22	15423	235.3995 ng/ml
alpha-PVP	4.352	852667	61713.91	51.2	64580.09	159263	242.0982 ng/ml
Alprazolam	5.765	463785	11221.36	104.9	1964.05	55989	252.7728 ng/ml
Amphetamine	3.048	387649	3547.18	52.7	8570.54	23884	244.6604 ng/ml
Benzoylcegonine	3.869	26064	1220.76	7.8	368.49	4147	252.2246 ng/ml
Buprenorphine	5.740	21486	1303.66	16.4	1749.34	37374	24.3797 ng/ml
Bupropion	4.775	1784563	133905.57	59.1	71233.19	254533	255.7821 ng/ml
Carisoprodol	5.713	411294	14506.17	55.8	5114.65	85876	250.5468 ng/ml
Citalopram	5.214	328012	1728.18	42.9	1396.72	57790	252.7182 ng/ml
Clonazepam	5.600	44816	10214.40	34.1	8657.20	3026	261.0591 ng/ml
Cocaine	4.259	935978	757249.24	43.8	106989.55	371567	247.0259 ng/ml
Codeine	2.577	119042	951.72	101.7	1330.07	22053	256.5488 ng/ml
Cyclobenzaprine	5.617	139923	122731.37	10.0	1108.70	21772	254.3492 ng/ml
Dextromethorphan	5.257	166819	21589.31	79.7	12428.61	34233	230.4461 ng/ml
Dextrorphan	4.115	343026	101515.91	207.2	67486.38	154149	264.4834 ng/ml
Diazepam	5.944	324899	1009.54	87.6	4639.29	58838	258.6530 ng/ml

p1 QC 250

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	333251	33183.43	67.5	25813.83	75610	250.0269 ng/ml
Diphenhydramine	5.291	947052	1906.40	34.4	28384.80	199085	254.0973 ng/ml
Doxylamine	4.521	2496515	47526.20	97.6	61479.44	441604	250.1460 ng/ml
EDDP	5.250	723213	5059.34	41.9	2821.52	156354	236.2113 ng/ml
Fentanyl	5.078	17633	31955.76	78.5	3787.16	36743	23.9637 ng/ml
Fluoxetine	5.703	138956	1703.49	9.3	∞	22862	237.1875 ng/ml
Hydrocodone	3.011	350076	∞	41.5	∞	81603	261.7101 ng/ml
Hydromorphone	1.614	264665	769.12	75.5	1724.56	39735	247.2215 ng/ml
Ketamine	4.035	743836	161473.28	37.2	4132.22	143471	245.8687 ng/ml
Lamotrigine	4.283	78618	1992.25	80.6	4756.46	143471	253.0568 ng/ml
Lorazepam	5.736	49954	495.94	58.1	146.40	3026	248.5126 ng/ml
Meprobamate	4.905	153670	13459.55	28.0	17007.74	29276	248.3731 ng/ml
Methadone	5.648	476078	3431.77	50.3	∞	88935	264.3536 ng/ml
Methamphetamine	3.217	606138	4090.28	41.6	13110.34	106309	238.7825 ng/ml
Metoprolol	4.321	247352	36401.28	91.7	∞	438594	228.4958 ng/ml
Mirtazapine	4.603	695538	73166.16	47.6	79371.36	159263	228.5557 ng/ml
Mitragynine	5.206	73482	6168.73	38.8	40012.49	88935	190.4944 ng/ml
Morphine	1.253	63145	1936.93	24.9	349.50	3532	230.1161 ng/ml
Norbuprenorphine	4.981	3124	359.23	101.9	1168.28	5433	26.1439 ng/ml
Nordiazepam	5.890	77747	1227.90	56.6	905.00	9895	244.5513 ng/ml
Norfentanyl	4.076	133670	14115.11	37.1	4112.86	234612	24.4424 ng/ml
Norhydrocodone	3.066	124188	5377.06	41.8	602.84	106848	259.5764 ng/ml
Noroxycodone	2.908	205964	∞	46.4	283.46	31215	248.7589 ng/ml
O-desmethyl-tramadol	3.365	2284938	93302.36	6.5	14735.47	420109	251.1309 ng/ml
Oxazepam	5.738	44948	∞	67.8	77.59	6378	262.8952 ng/ml
Oxycodone	2.827	578830	527.77	31.1	209.54	103068	245.9401 ng/ml
Oxymorphone	1.403	180874	∞	46.6	830.69	28284	255.8403 ng/ml
Phentermine	3.773	242599	∞	3.8	∞	105579	250.8464 ng/ml
Promethazine	5.533	266101	3024.63	28.8	936.04	45623	246.6299 ng/ml
Quetiapine	5.530	589292	3614.55	60.4	9809.02	31063	276.2891 ng/ml
Sertraline	5.772	66022	1644.45	90.8	1393.14	10578	247.6712 ng/ml
Temazepam	5.806	270325	1484.75	30.5	234.50	50321	240.4287 ng/ml
Tramadol	4.234	2024245	98356.02	3.6	1782.45	438594	244.1174 ng/ml
Trazodone	5.091	375735	290590.56	76.9	7065.01	59961	239.3056 ng/ml
Venlafaxine	5.032	1549990	84460.67	38.2	10622.87	303480	252.9228 ng/ml
Zolpidem	4.861	2052437	91163.57	31.6	39755.89	398031	249.1111 ng/ml

# AM #28 Multi-Drug Quant. Results

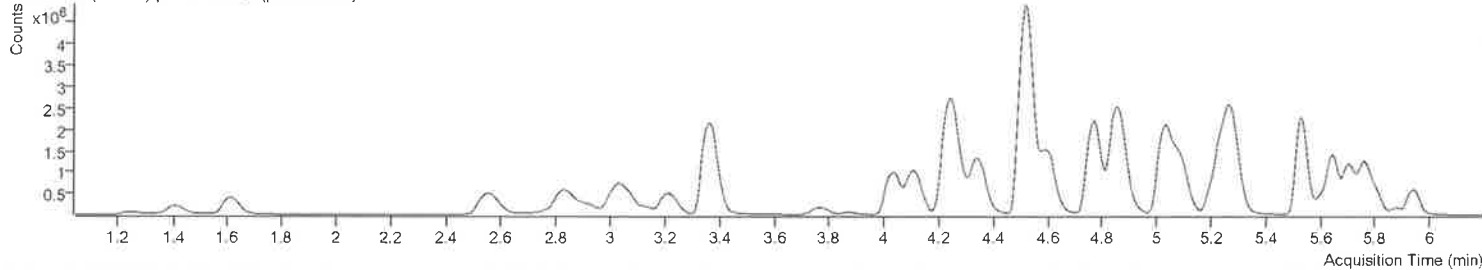


Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin 6/17/2019 12:02:45 PM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info Falco QC MDQ P1 Combined 011619.m P1-D2 1 6/14/2019 5:25:27 PM Data File Sample Operator Comment p1 QC 1000.d p1 QC 1000

## Sample Chromatogram

+ TIC MRM (\*\* -> \*) p1 QC 1000.d (p1 QC 1000)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.137	225957	∞	72.0	1749.20	71649	95.5009 ng/ml
7-aminoclonazepam	4.239	413440	26452.47	78.0	7876.70	21016	888.5088 ng/ml
α-hydroxyalprazolam	5.680	264585	3314.15	63.4	2195.78	13242	948.5342 ng/ml
alpha-PVP	4.352	2627761	43058.26	51.2	176670.68	120862	983.0089 ng/ml
Alprazolam	5.765	1334552	∞	105.1	∞	38487	1057.6090 ng/ml
Amphetamine	3.055	1047423	8487.45	53.5	26164.38	17718	893.6097 ng/ml
Benzoylcegonine	3.876	114970	7943.80	7.6	377.25	4375	1072.0883 ng/ml
Buprenorphine	5.740	64714	2266.57	17.2	68.14	27944	98.3261 ng/ml
Bupropion	4.775	5285059	1565190.73	58.5	154335.40	186154	1036.2812 ng/ml
Carisoprodol	5.713	1168563	1305674.39	56.0	1182.70	61470	994.8054 ng/ml
Citalopram	5.214	1378521	42650.08	43.3	∞	62159	988.3382 ng/ml
Clonazepam	5.600	179760	313423.68	34.6	11519.02	3101	1024.8817 ng/ml
Cocaine	4.259	2892415	244647.52	43.3	389686.11	287196	988.3801 ng/ml
Codeine	2.583	372888	30646.47	99.0	8892.36	17534	1013.0337 ng/ml
Cyclobenzaprine	5.617	926392	27310.58	9.8	1580.78	36496	1004.8871 ng/ml
Dextromethorphan	5.257	731015	48936.66	79.1	∞	37105	932.0173 ng/ml
Dextrorphan	4.115	1112721	44089.13	207.8	229516.80	126436	1046.9732 ng/ml
Diazepam	5.944	966181	10806.94	87.3	4403.32	44482	1017.6534 ng/ml

p1 QC 1000

# AM #28 Multi-Drug Quant. Results



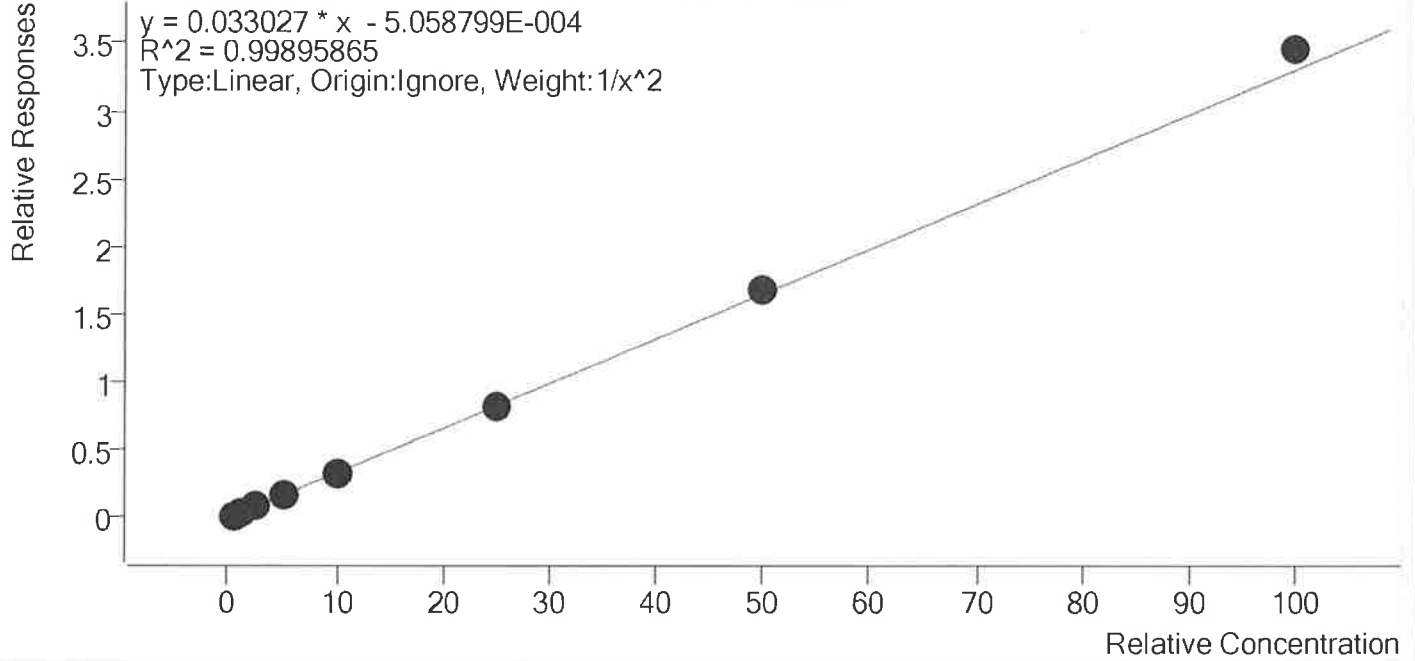
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.540	1072271	196164.51	68.1	80197.47	68613	887.7761	ng/ml
Diphenhydramine	5.291	4090487	2660408.21	34.3	48093.23	213645	1022.9953	ng/ml
Doxylamine	4.523	9507504	745716.25	96.0	∞	419784	1003.0651	ng/ml
EDDP	5.250	2994693	97814.63	42.6	321284.51	161719	941.7730	ng/ml
Fentanyl	5.078	98089	19587.48	80.3	7773.86	49516	98.8690	ng/ml
Fluoxetine	5.703	871586	38516.95	9.4	∞	35788	951.3366	ng/ml
Hydrocodone	3.011	1226468	590.92	40.8	562.75	76718	976.7312	ng/ml
Hydromorphone	1.614	946703	2481.07	75.8	1836.74	35904	979.4161	ng/ml
Ketamine	4.035	2488779	124224.19	37.5	3105.21	124758	947.1557	ng/ml
Lamotrigine	4.283	213055	6888.27	79.7	2153.63	124758	790.0264	ng/ml outside curve range
Lorazepam	5.736	186531	∞	57.1	906.57	3101	924.2062	ng/ml
Meprobamate	4.905	532578	2981.85	28.7	29959.96	22883	1101.1698	ng/ml
Methadone	5.648	2333325	230596.12	50.2	10635.79	113699	1013.1930	ng/ml
Methamphetamine	3.217	1527140	14510.80	41.6	6035.29	72419	884.4482	ng/ml
Metoprolol	4.321	669281	86865.85	91.1	∞	329517	825.4027	ng/ml
Mirtazapine	4.603	3406762	1416345.20	47.4	150899.54	120862	1487.7537	ng/ml outside curve range
Mitragynine	5.206	366696	21287.56	39.3	∞	113699	741.1541	ng/ml
Morphine	1.253	200785	17274.25	23.7	2940.95	2913	887.6698	ng/ml
Norbuprenorphine	4.981	13361	1397.60	101.6	92875.78	6195	99.0759	ng/ml
Nordiazepam	5.890	257181	1610.70	58.4	1585.58	8926	896.6642	ng/ml
Norfentanyl	4.076	495519	50411.25	36.7	4692.59	213499	99.5729	ng/ml
Norhydrocodone	3.066	502247	∞	42.9	2026.07	89664	1245.1875	ng/ml outside curve range
Noroxycodone	2.908	679682	∞	46.8	∞	26153	980.5166	ng/ml
O-desmethyl-tramadol	3.372	7907736	327540.87	6.5	25994.47	364387	1002.5416	ng/ml
Oxazepam	5.738	154122	1973.33	67.8	483.99	6017	955.9041	ng/ml
Oxycodone	2.827	2246643	∞	29.7	1569.50	96501	1022.0405	ng/ml
Oxymorphone	1.410	606959	2832.24	48.6	770.53	26201	927.8555	ng/ml
Phentermine	3.773	651459	∞	3.9	1556.06	77211	922.7673	ng/ml
Promethazine	5.533	1743010	310888.20	29.1	47374.76	71795	1027.3787	ng/ml
Quetiapine	5.530	3047491	7505.46	60.4	68787.49	43869	1011.7769	ng/ml
Sertraline	5.779	354325	6566.57	89.6	82792.29	14008	1003.3427	ng/ml
Temazepam	5.806	928625	21331.10	30.1	682.73	41235	1008.0142	ng/ml
Tramadol	4.228	6127903	∞	3.6	9360.12	329517	985.8392	ng/ml
Trazodone	5.091	2498025	180522.76	78.7	1921973.0	89071	1066.3213	ng/ml
Venlafaxine	5.032	5498411	1407828.16	38.8	18588.76	268841	1014.0219	ng/ml
Zolpidem	4.861	7246082	179979.10	31.5	137229.83	364614	960.6962	ng/ml



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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



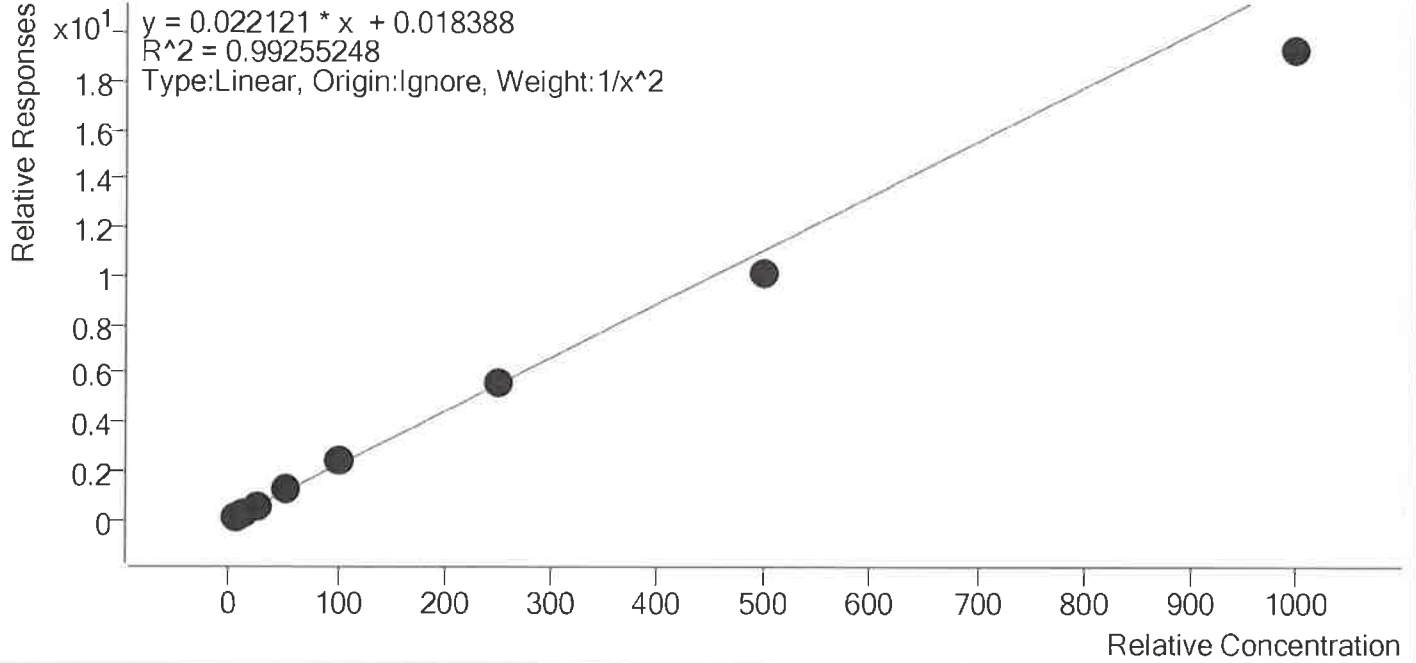
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.8
p1 Cal 4-50ng	4	✓	5.0	4.8	96.9
p1 Cal 5-100ng	5	✓	10.0	10.1	100.6
p1 Cal 6-250ng	6	✓	25.0	24.9	99.6
p1 Cal 7-500ng	7	✓	50.0	50.9	101.8
p1 Cal 8-1000ng	8	✓	100.0	104.6	104.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.2
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	106.8	106.8
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	459.7	91.9
p1 Cal 8-1000ng	8	✓	1000.0	869.5	86.9

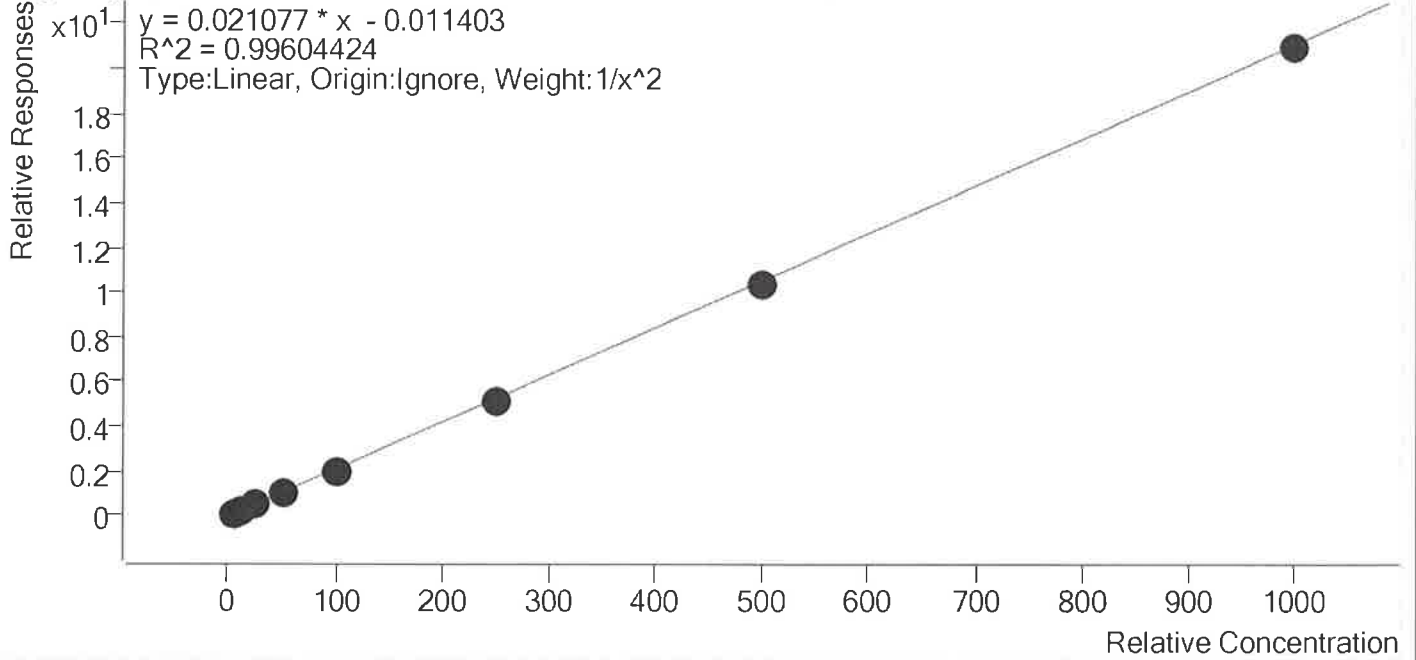




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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



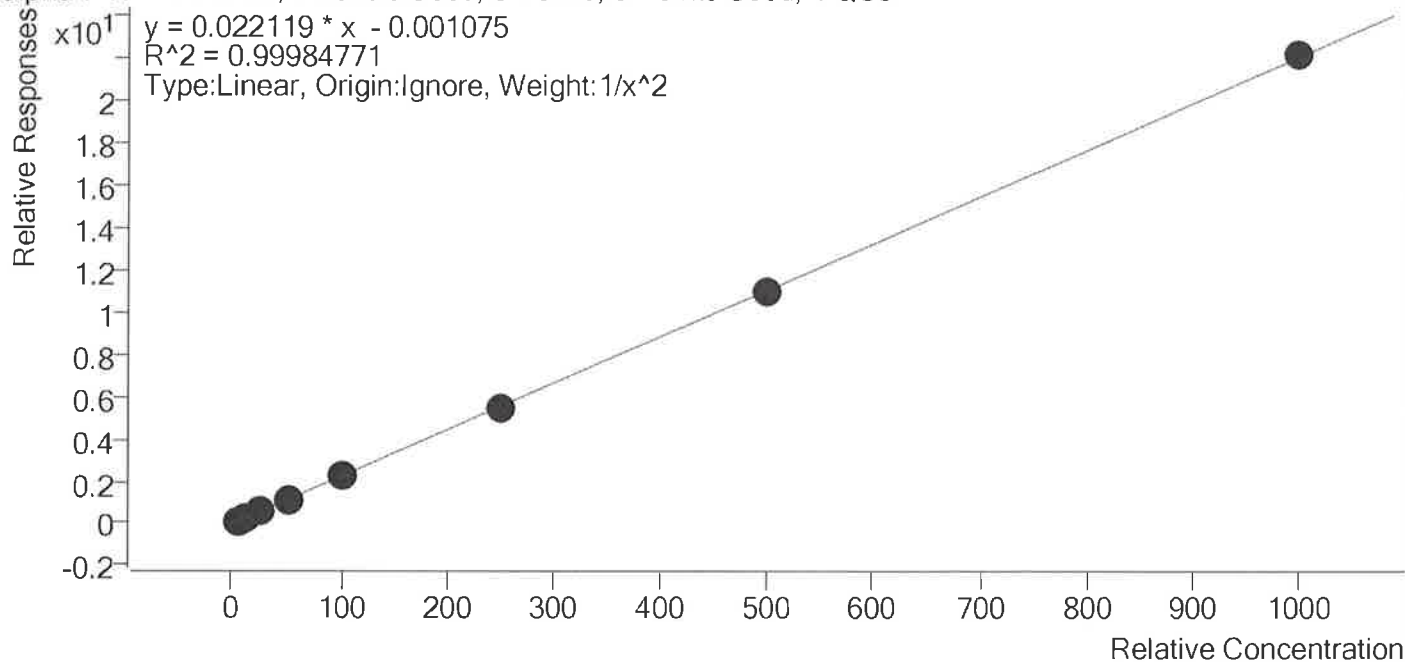
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.8
p1 Cal 2- 10ng	2	✓	10.0	11.2	112.0
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	241.5	96.6
p1 Cal 7-500ng	7	✓	500.0	492.9	98.6
p1 Cal 8-1000ng	8	✓	1000.0	993.1	99.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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

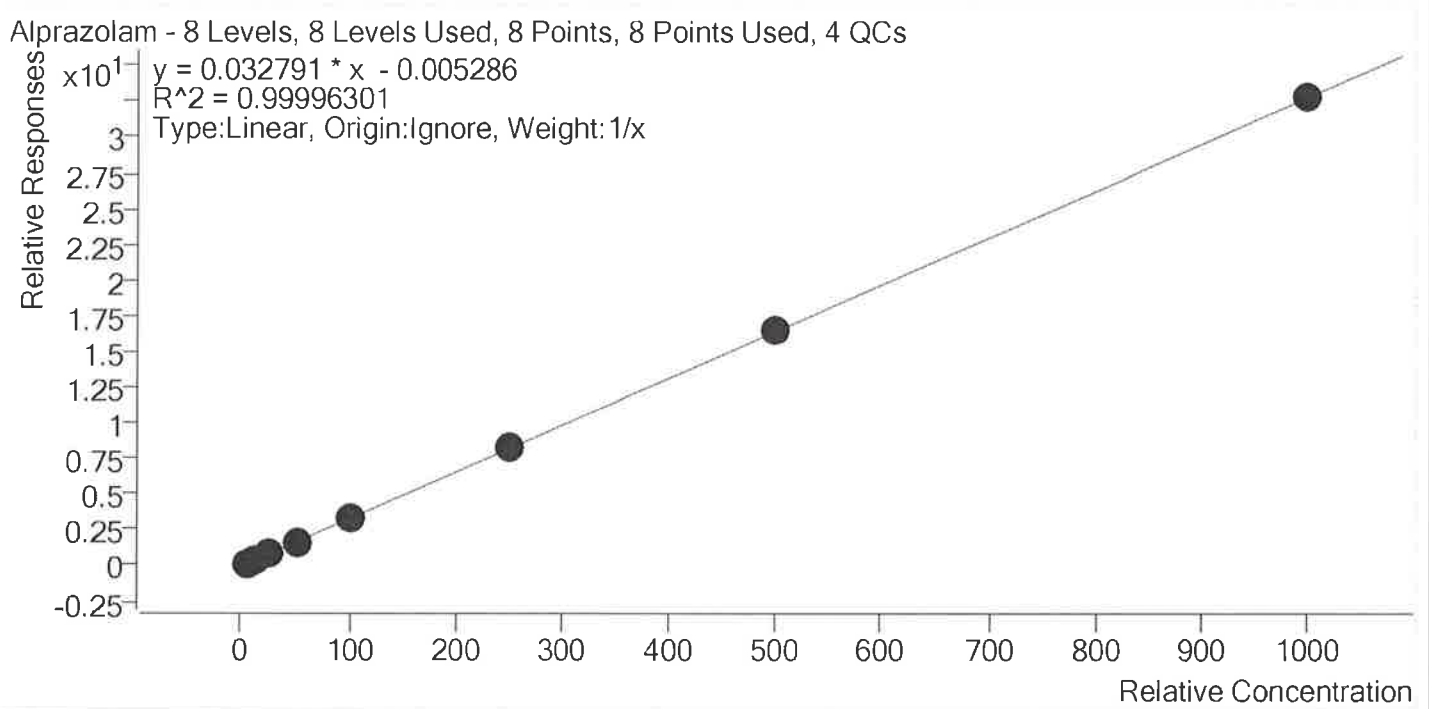


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	495.8	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1004.1	100.4



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5



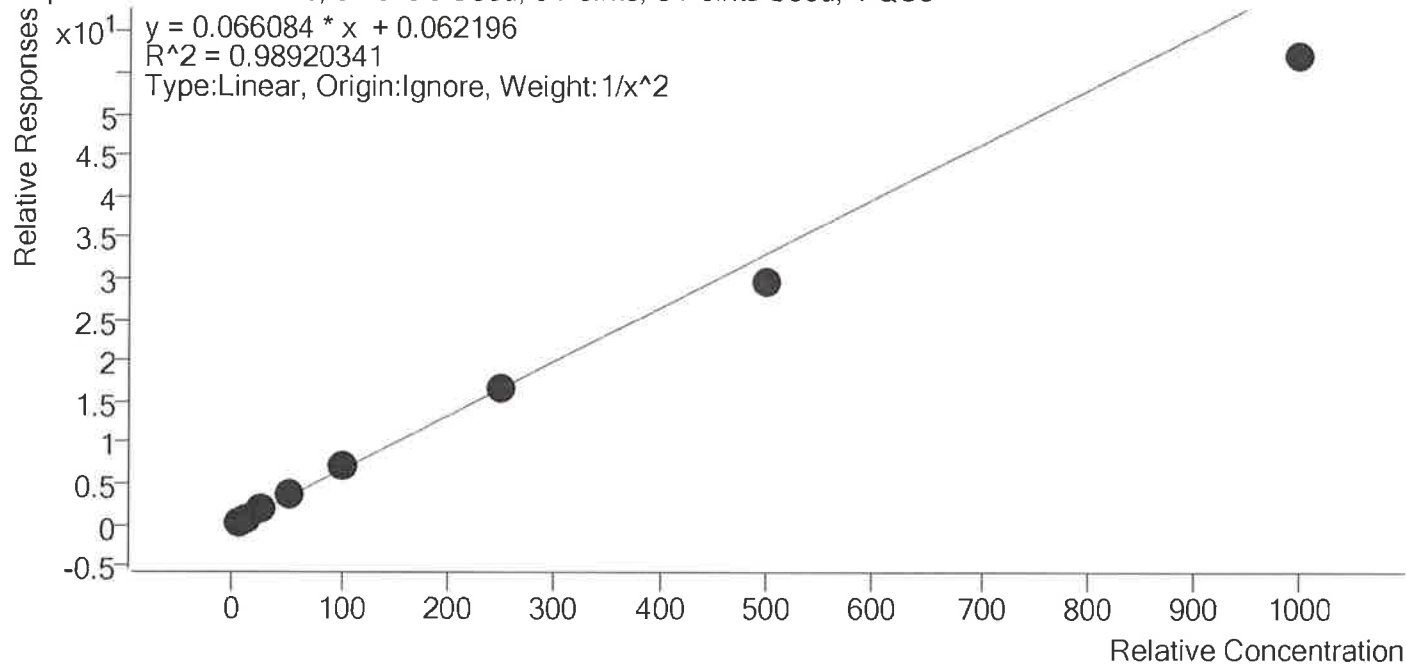
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	48.8	97.5
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1000.6	100.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



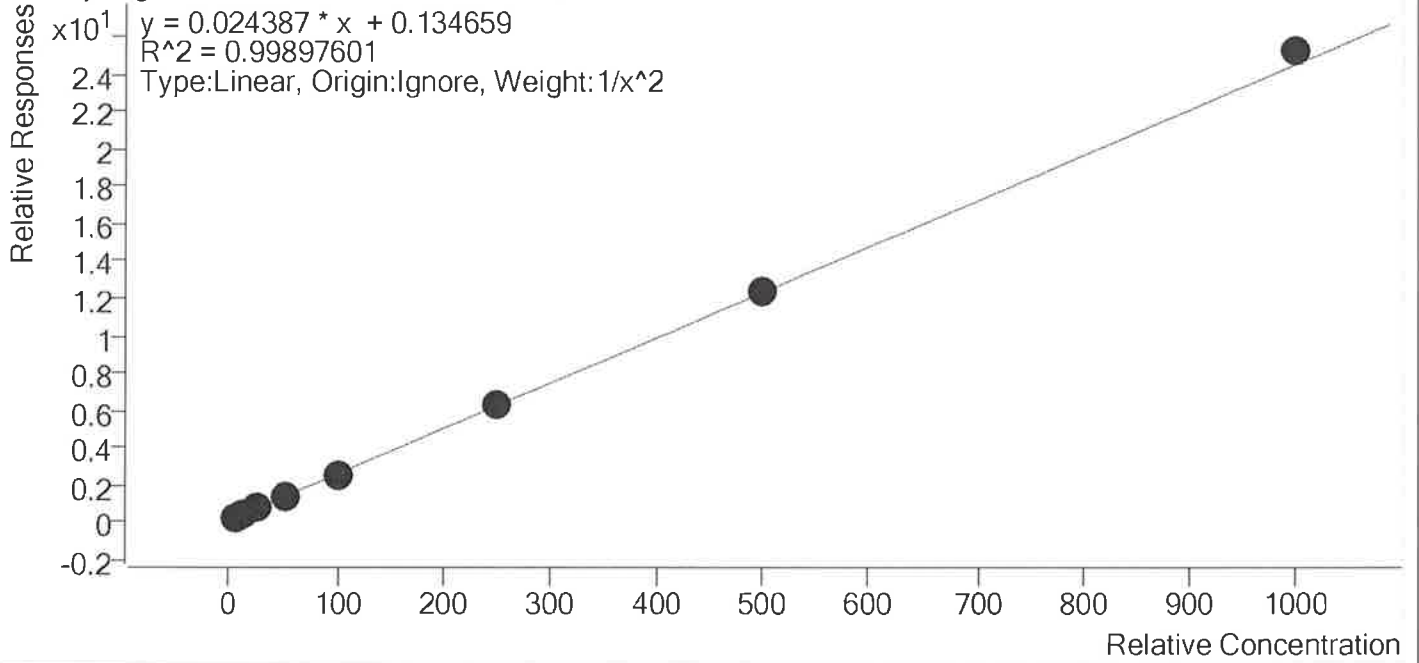
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.5
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.9
p1 Cal 4-50ng	4	✓	50.0	54.5	108.9
p1 Cal 5-100ng	5	✓	100.0	108.2	108.2
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	445.8	89.2
p1 Cal 8-1000ng	8	✓	1000.0	863.4	86.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



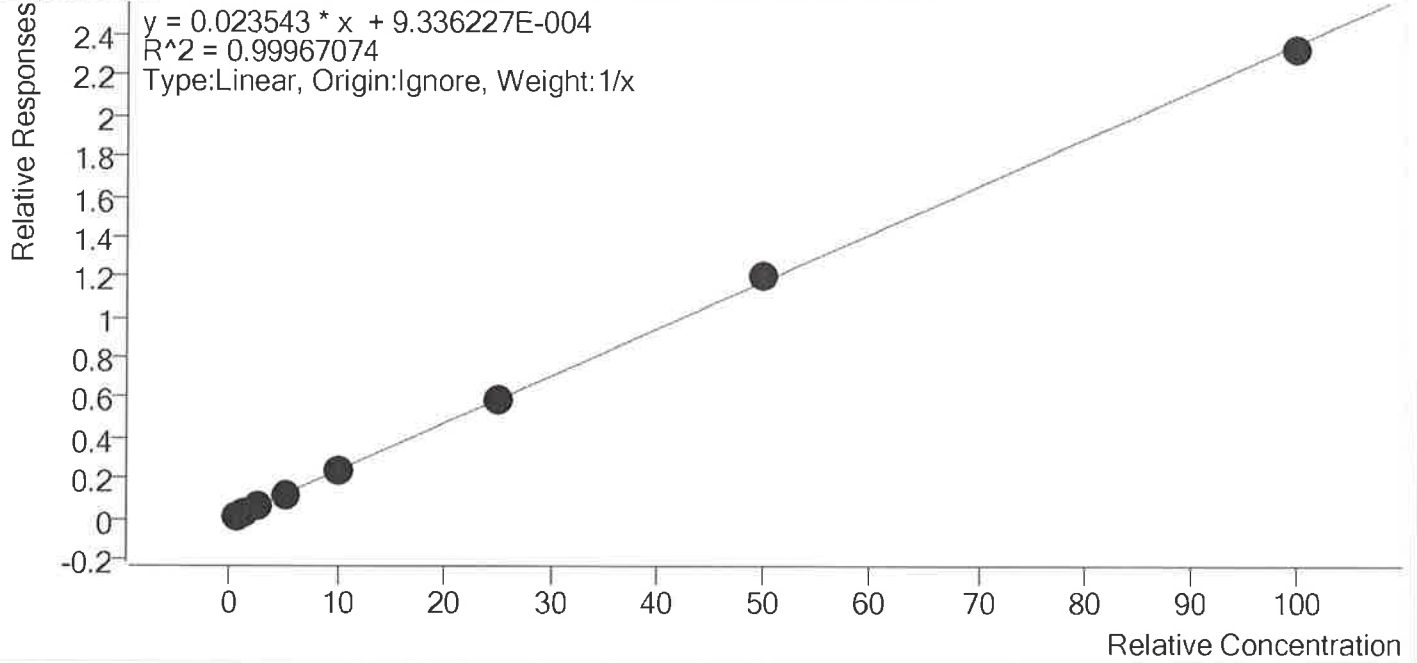
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.8
p1 Cal 2- 10ng	2	✓	10.0	9.5	94.6
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	499.0	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1029.9	103.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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



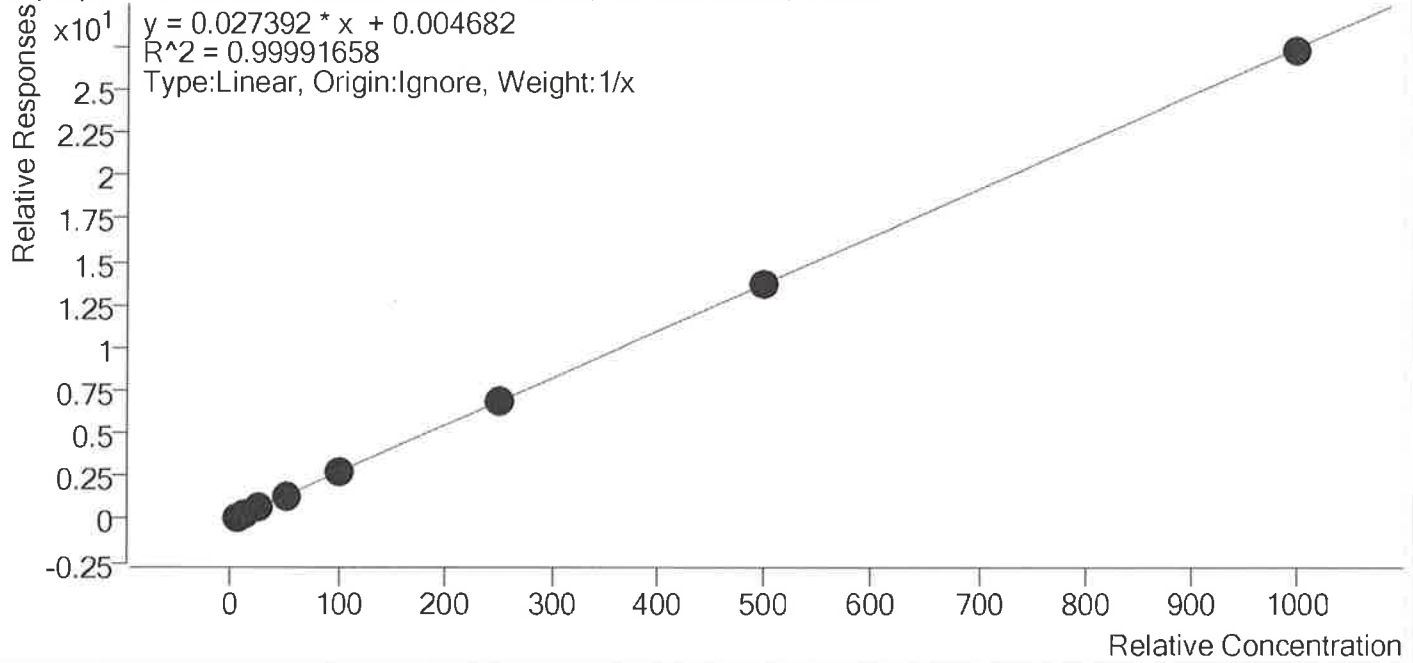
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	104.8
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.7
p1 Cal 4-50ng	4	✓	5.0	4.8	96.1
p1 Cal 5-100ng	5	✓	10.0	10.2	102.2
p1 Cal 6-250ng	6	✓	25.0	25.3	101.1
p1 Cal 7-500ng	7	✓	50.0	51.0	102.0
p1 Cal 8-1000ng	8	✓	100.0	98.8	98.8



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

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



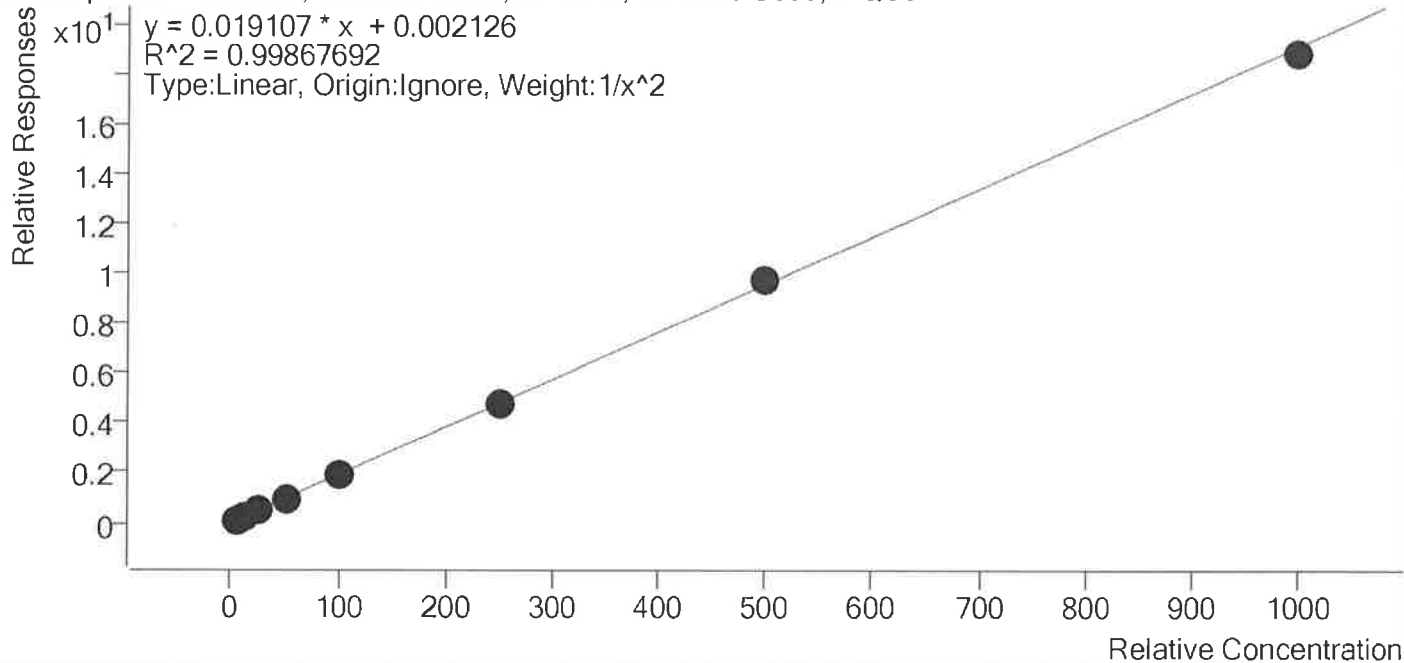
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	254.1	101.6
p1 Cal 7-500ng	7	✓	500.0	501.9	100.4
p1 Cal 8-1000ng	8	✓	1000.0	992.9	99.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	48.5	96.9
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	505.9	101.2
p1 Cal 8-1000ng	8	✓	1000.0	983.4	98.3

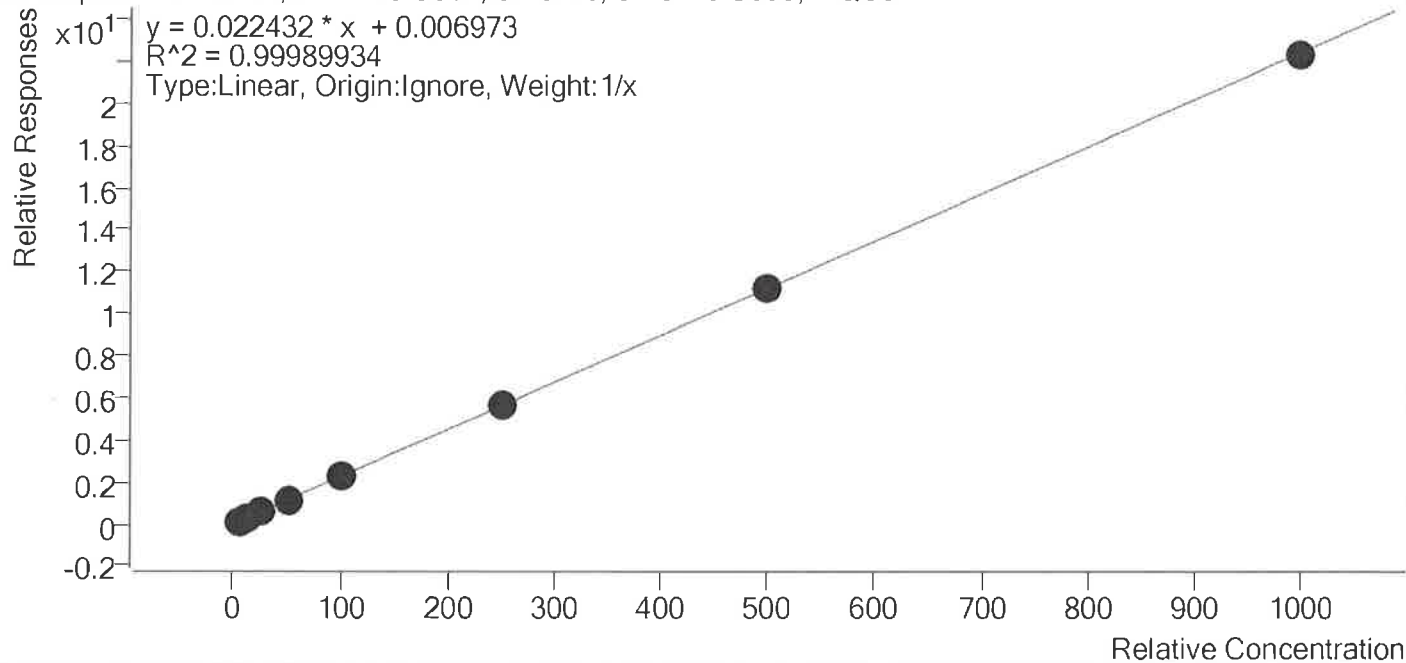




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

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



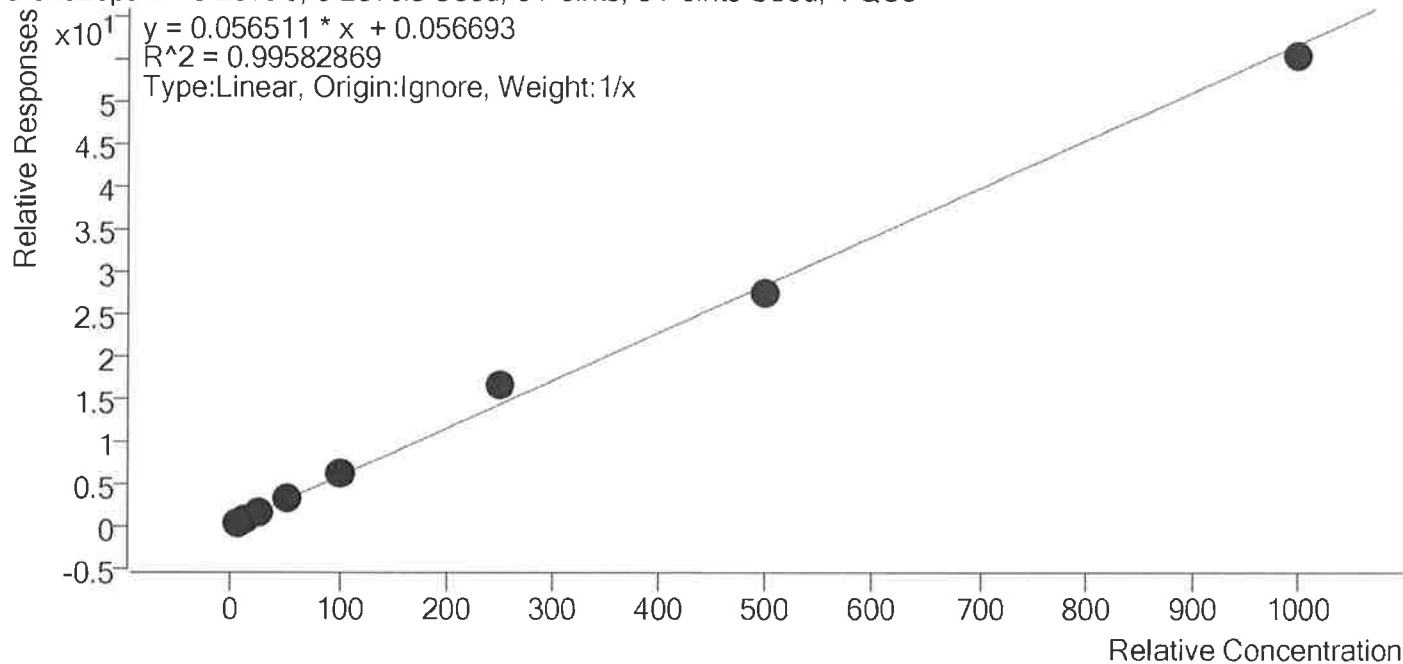
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	501.6	100.3
p1 Cal 8-1000ng	8	✓	1000.0	993.9	99.4



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

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



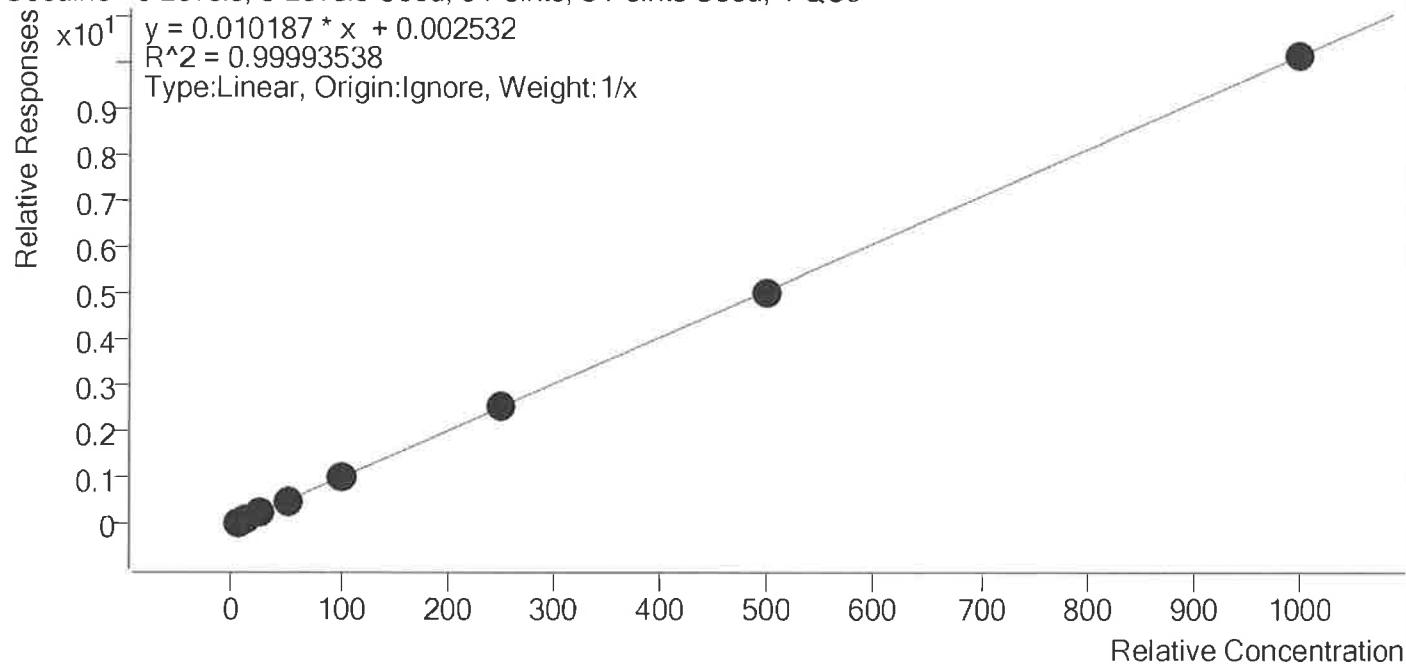
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	89.1
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
p1 Cal 6-250ng	6	✓	250.0	288.1	115.2
p1 Cal 7-500ng	7	✓	500.0	481.4	96.3
p1 Cal 8-1000ng	8	✓	1000.0	975.7	97.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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

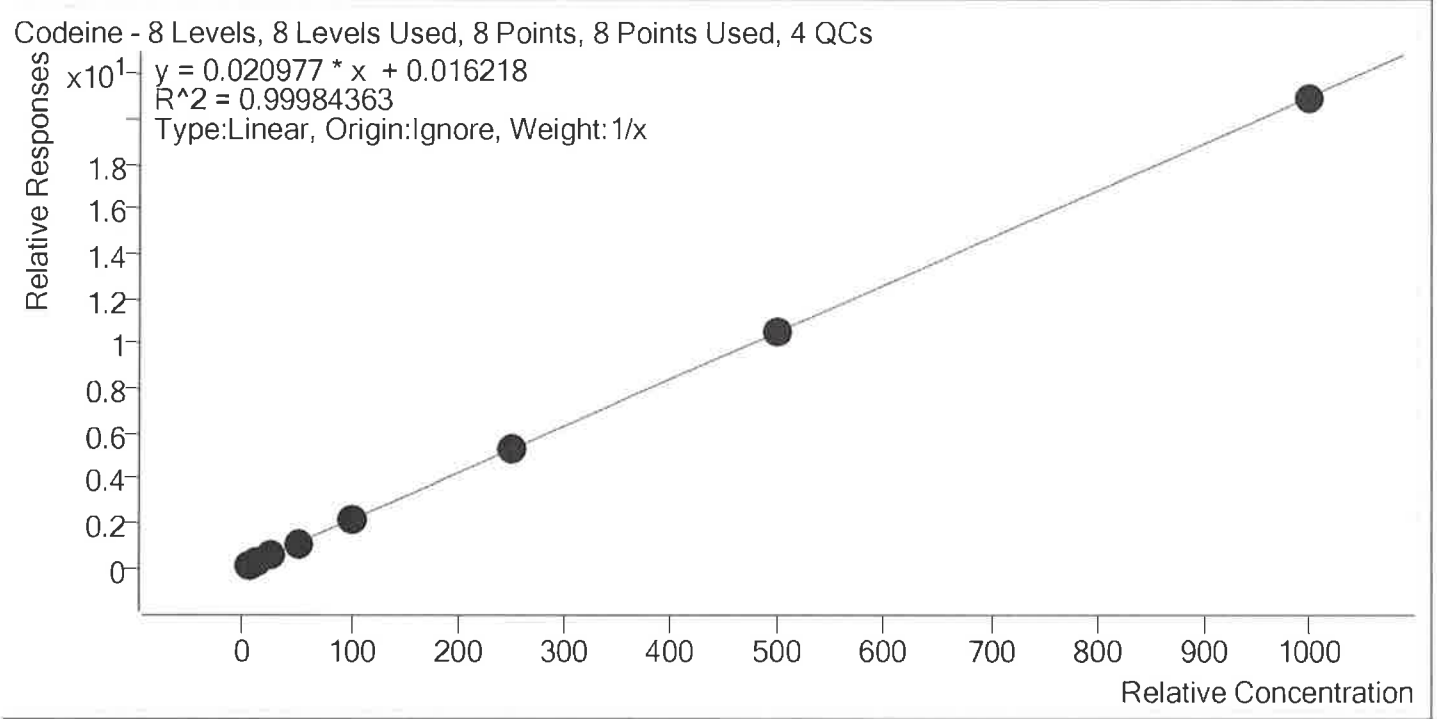


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	998.9	99.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

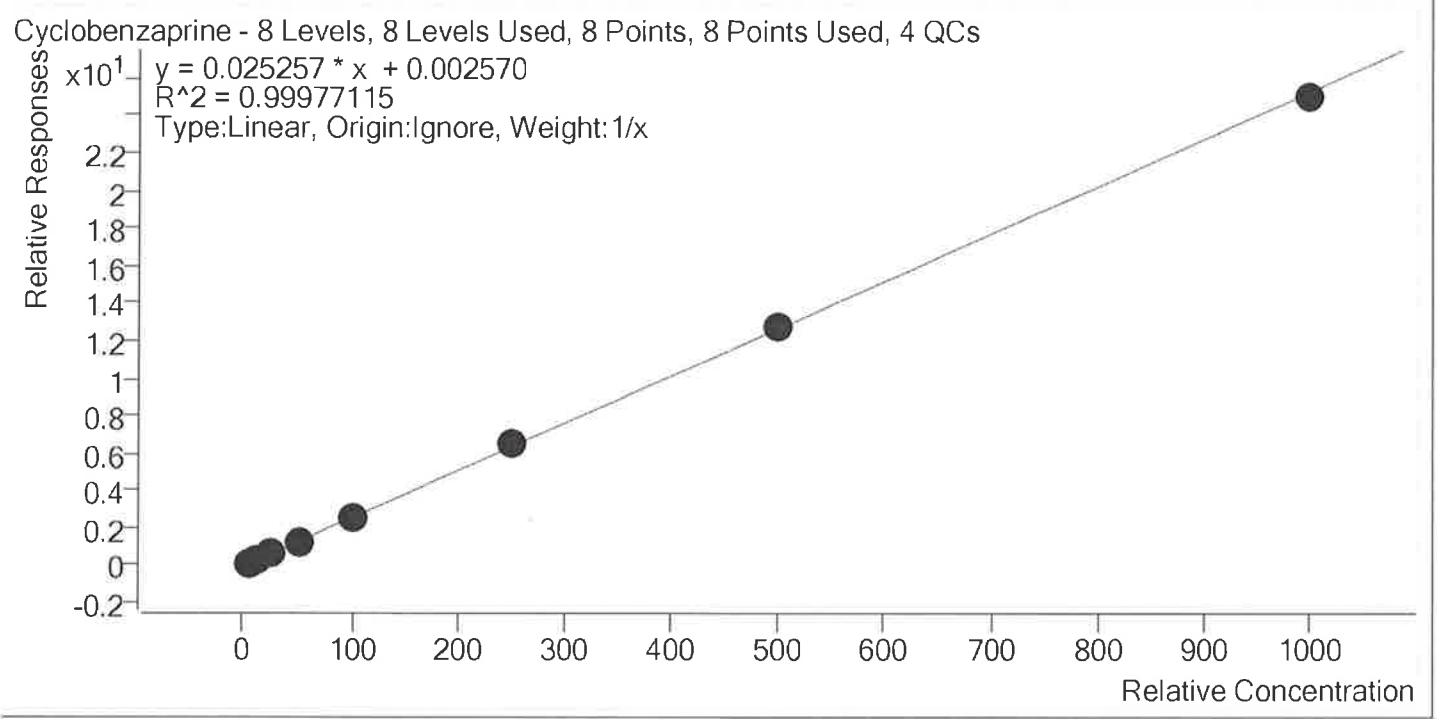


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	995.5	99.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



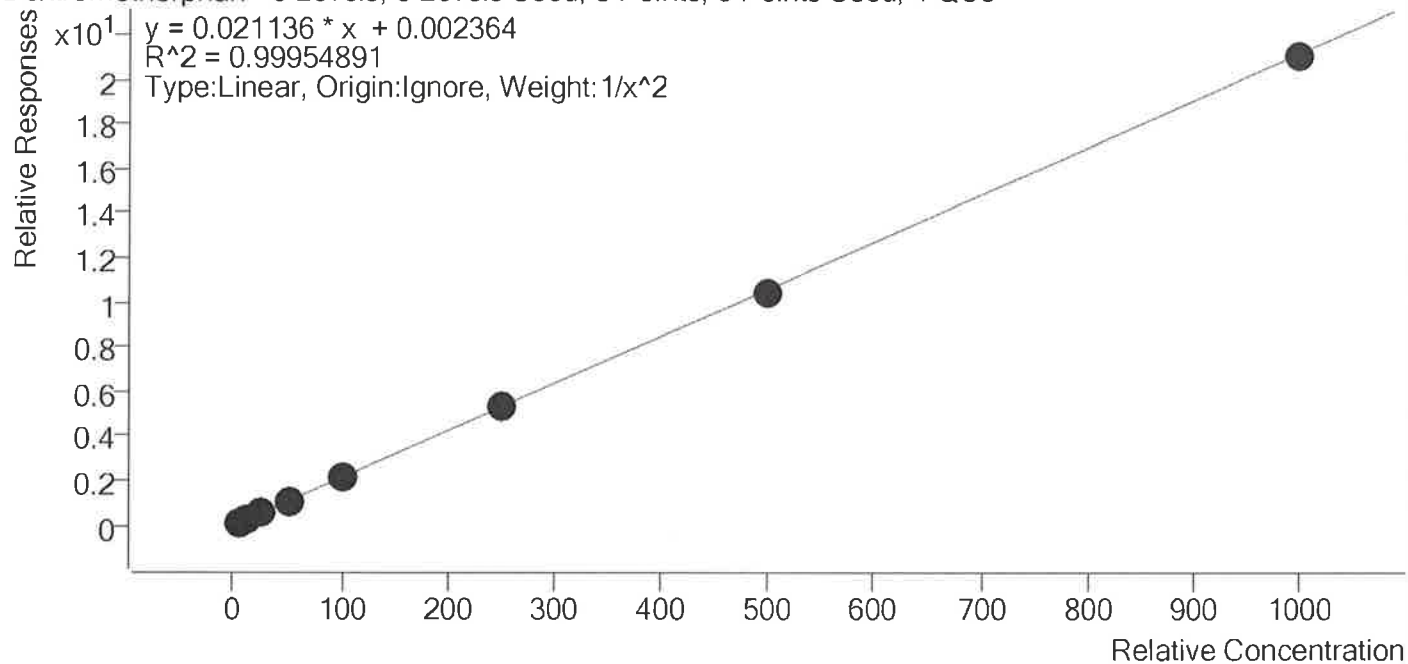
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.7
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	257.4	103.0
p1 Cal 7-500ng	7	✓	500.0	503.0	100.6
p1 Cal 8-1000ng	8	✓	1000.0	989.2	98.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.1	98.2
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	495.5	99.1
p1 Cal 8-1000ng	8	✓	1000.0	993.8	99.4

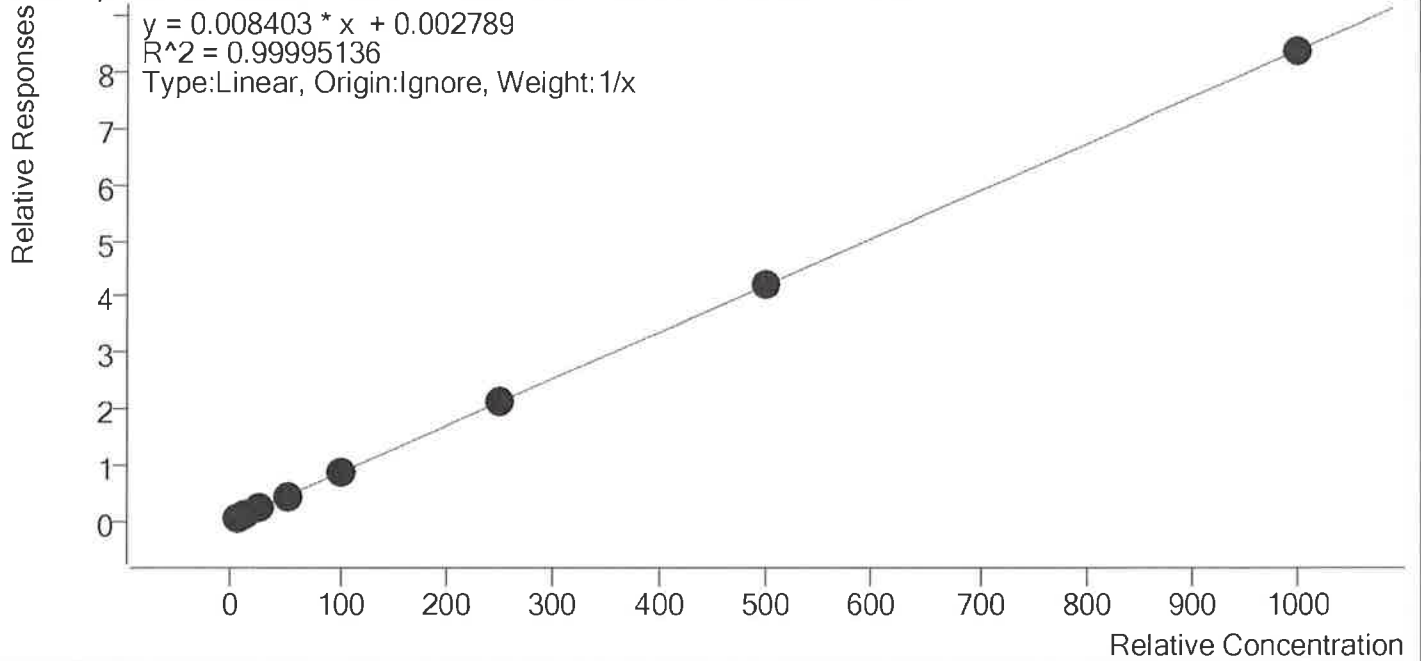


5

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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

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



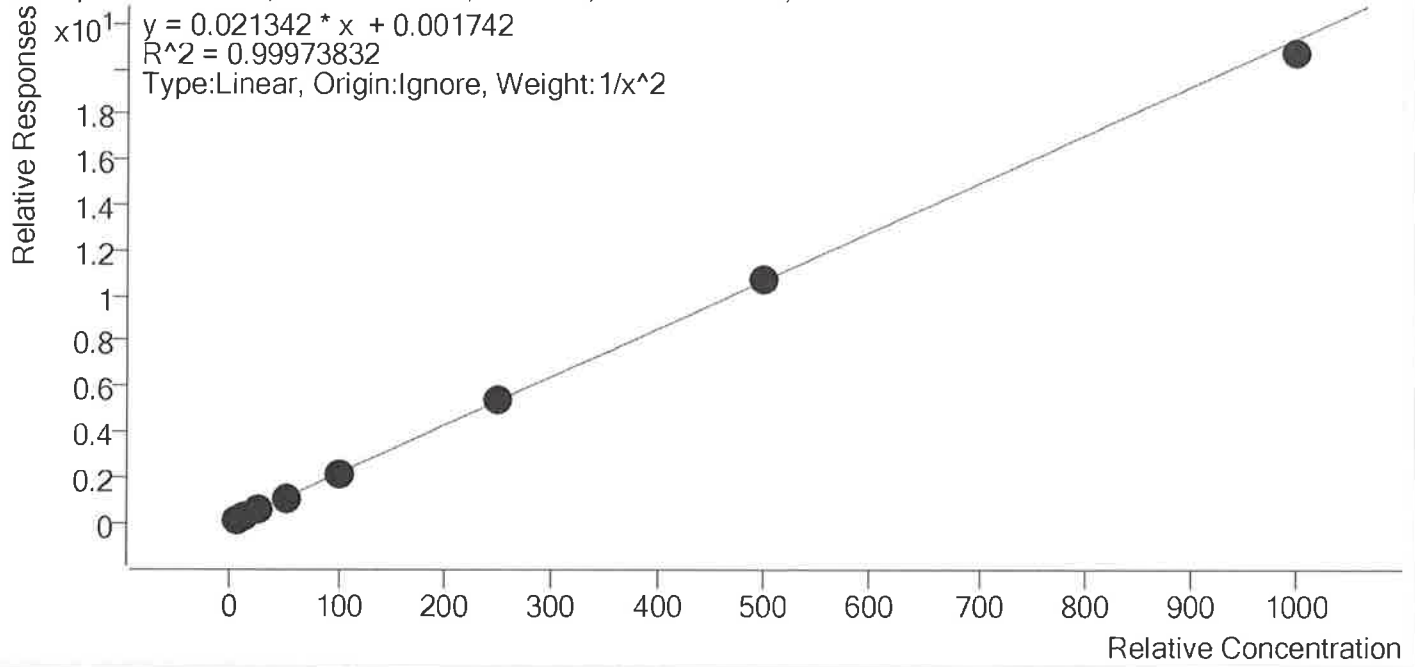
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	499.5	99.9
p1 Cal 8-1000ng	8	✓	1000.0	997.4	99.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.8	101.7
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	969.6	97.0

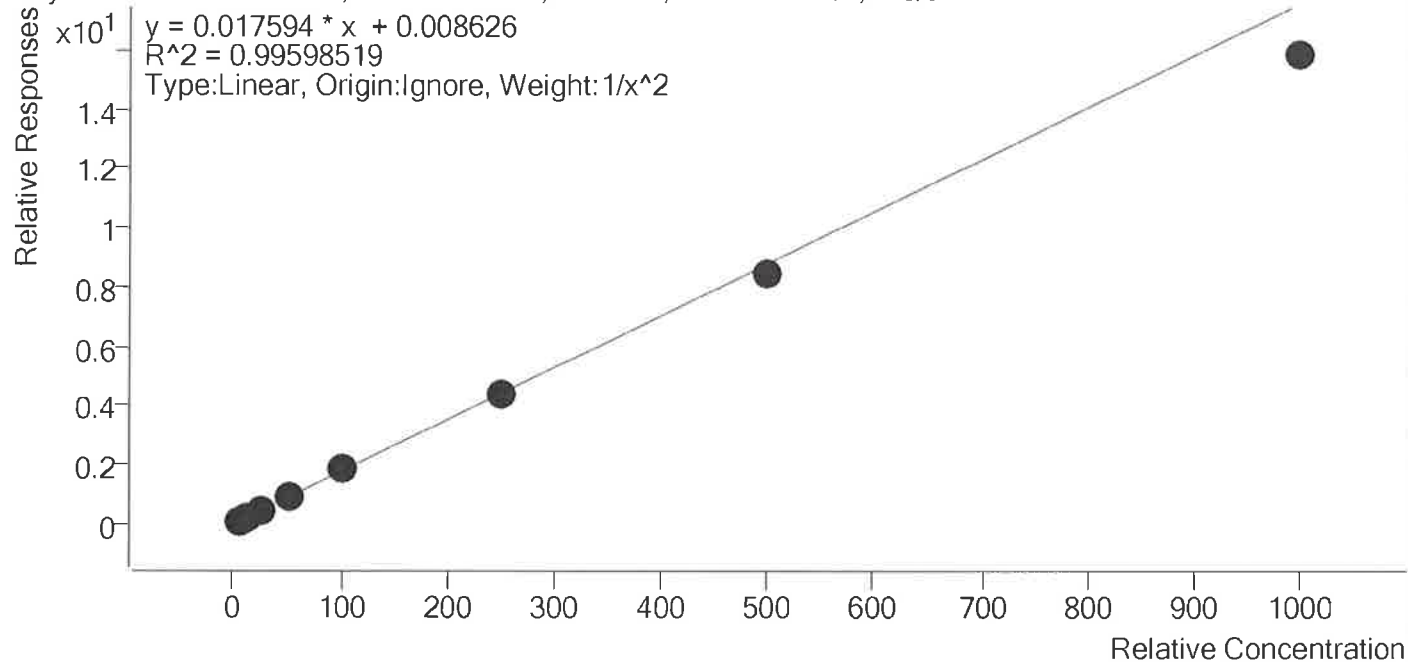




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



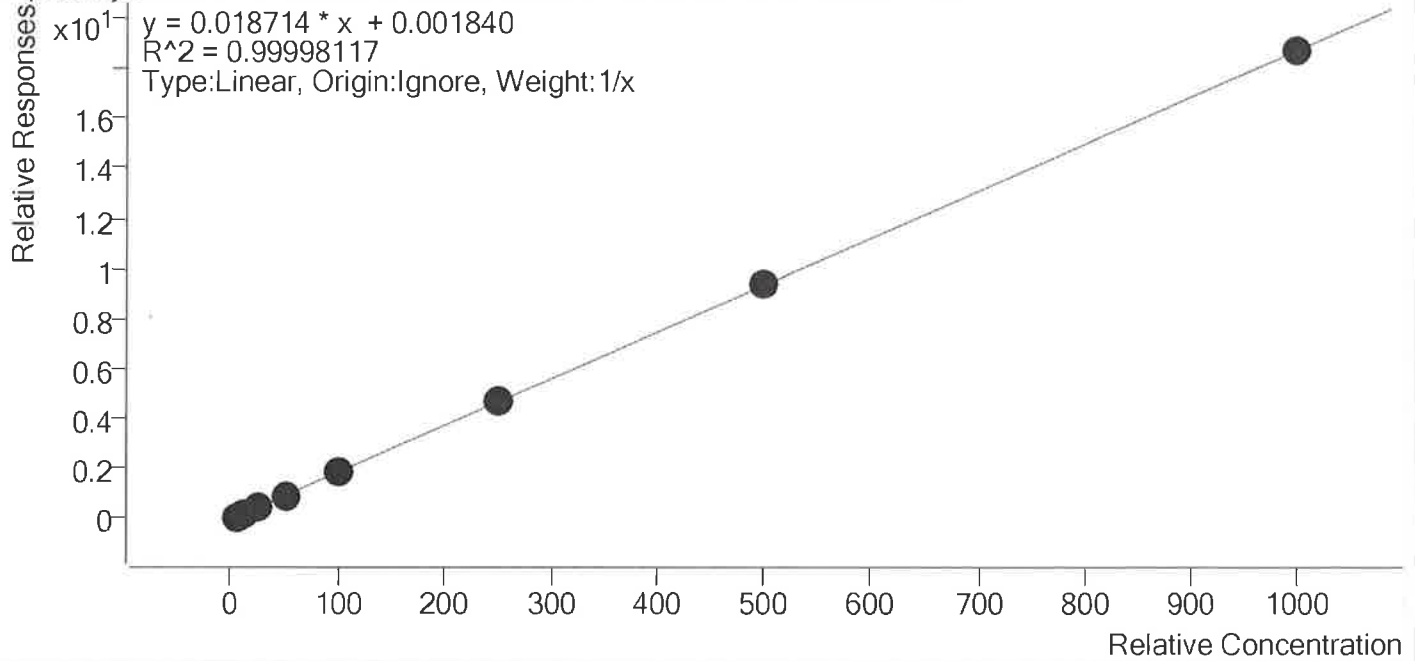
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.2
p1 Cal 4-50ng	4	✓	50.0	51.7	103.5
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	480.4	96.1
p1 Cal 8-1000ng	8	✓	1000.0	901.6	90.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



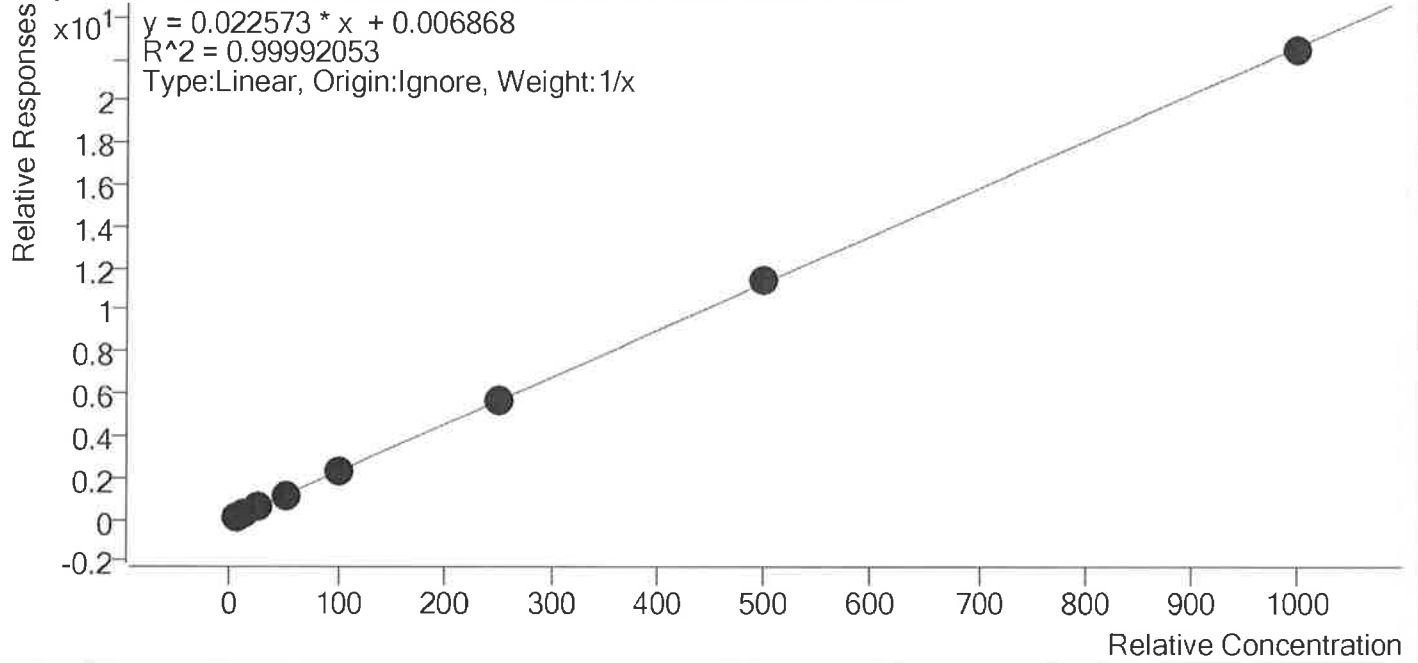
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	499.2	99.8
p1 Cal 8-1000ng	8	✓	1000.0	998.8	99.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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

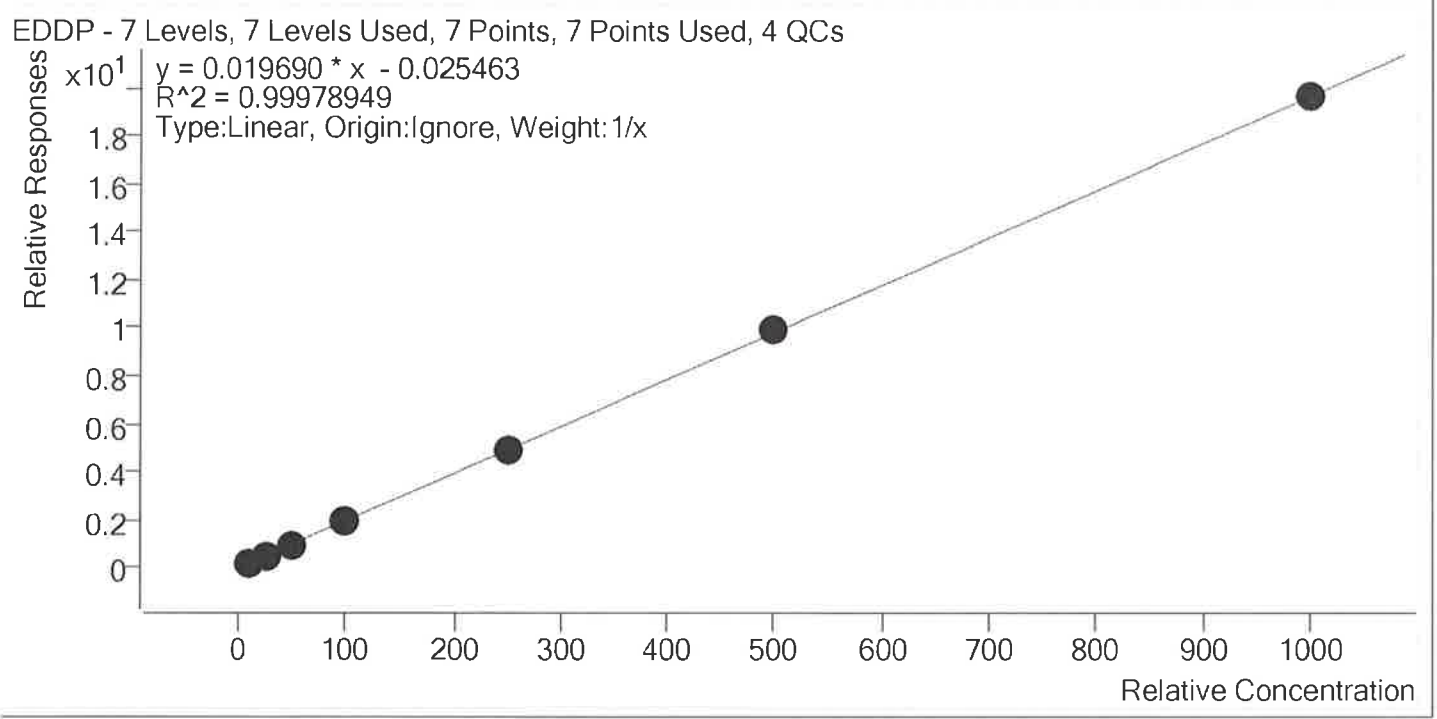


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	50.0	99.9
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	503.6	100.7
p1 Cal 8-1000ng	8	✓	1000.0	992.7	99.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3



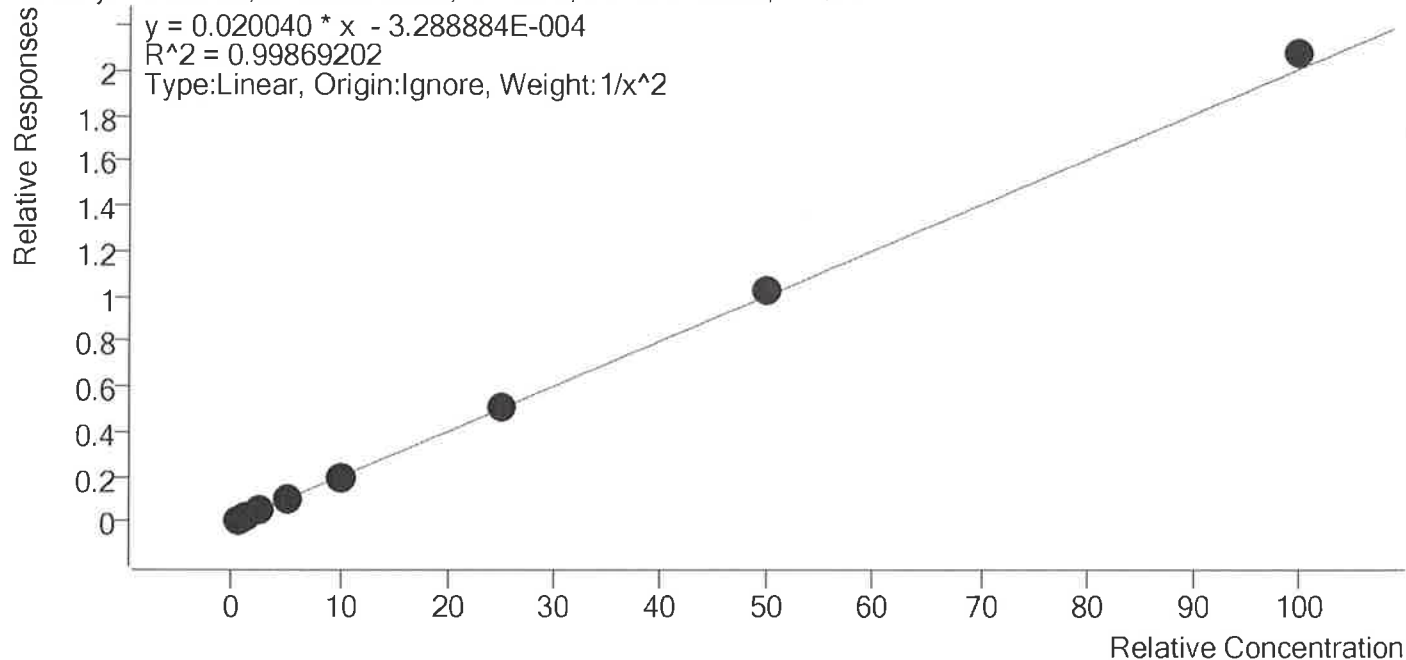
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	10.0	10.9	108.8
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.6
p1 Cal 4-50ng	4	✓	50.0	46.8	93.5
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	503.6	100.7
p1 Cal 8-1000ng	8	✓	1000.0	999.5	99.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

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



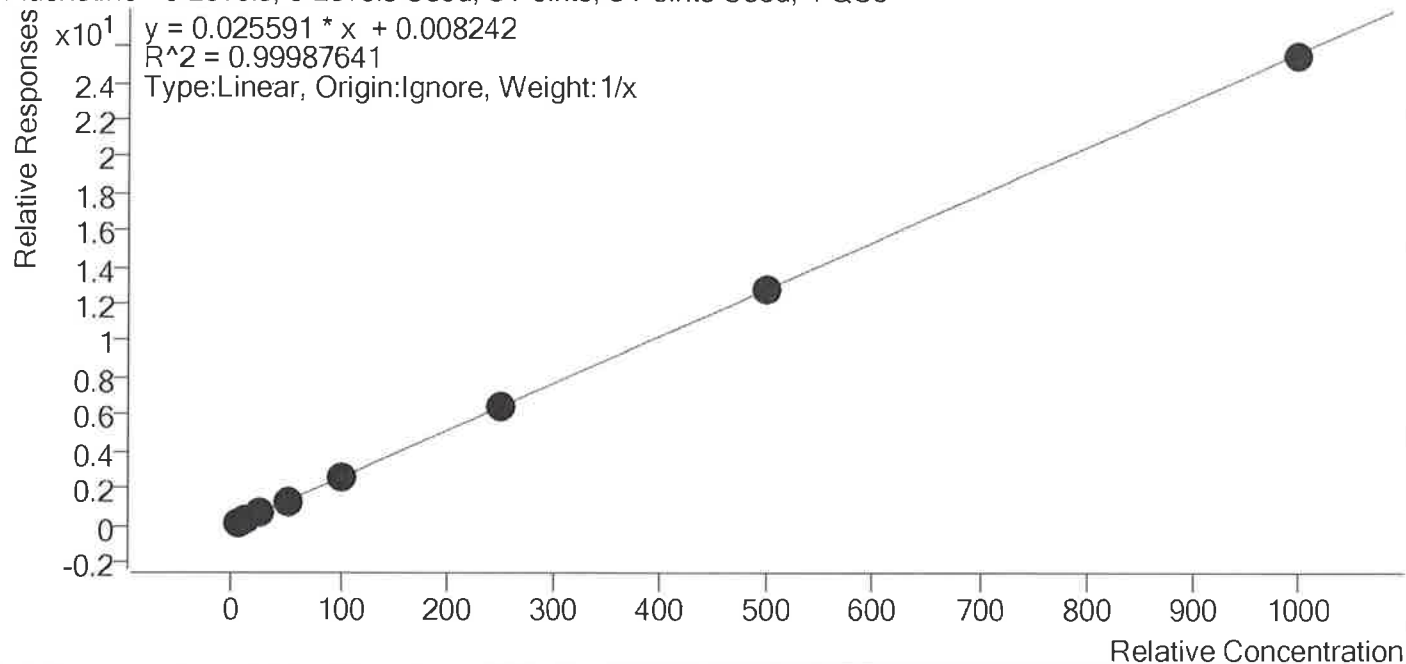
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.8
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.2
p1 Cal 4-50ng	4	✓	5.0	4.8	96.2
p1 Cal 5-100ng	5	✓	10.0	10.1	101.1
p1 Cal 6-250ng	6	✓	25.0	25.1	100.5
p1 Cal 7-500ng	7	✓	50.0	51.1	102.1
p1 Cal 8-1000ng	8	✓	100.0	103.5	103.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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



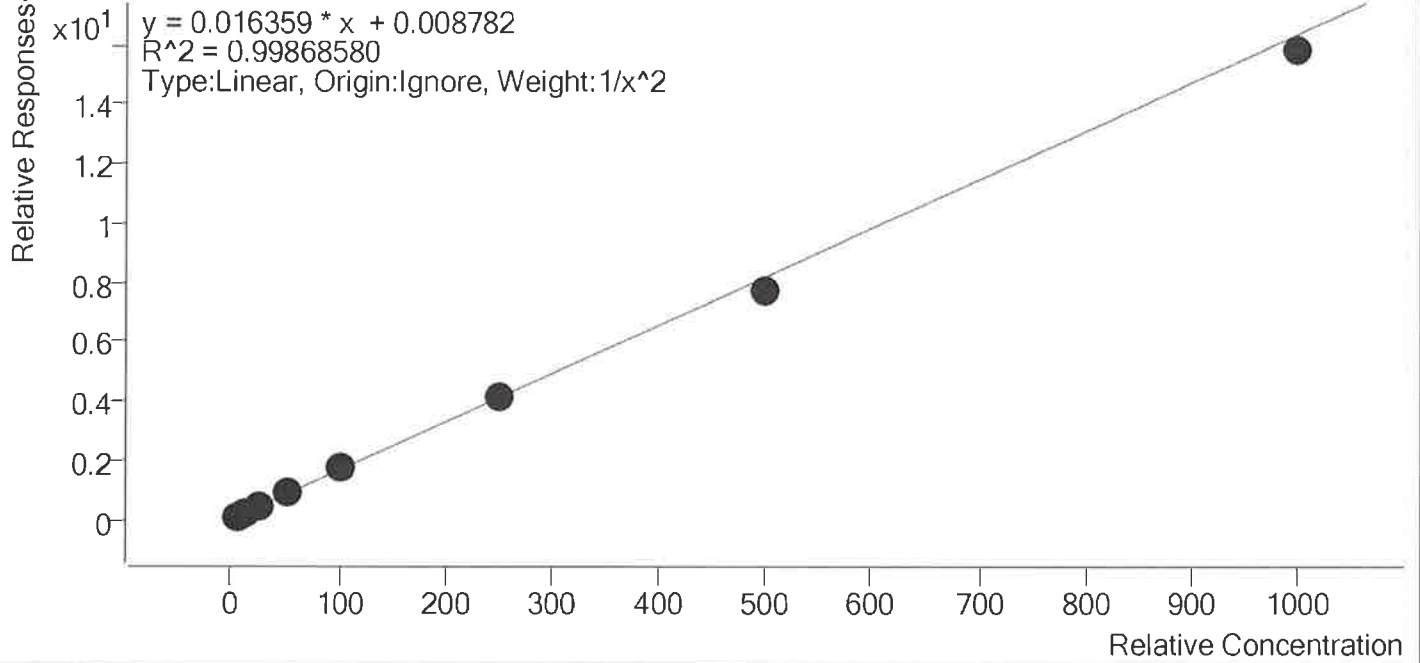
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	992.7	99.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



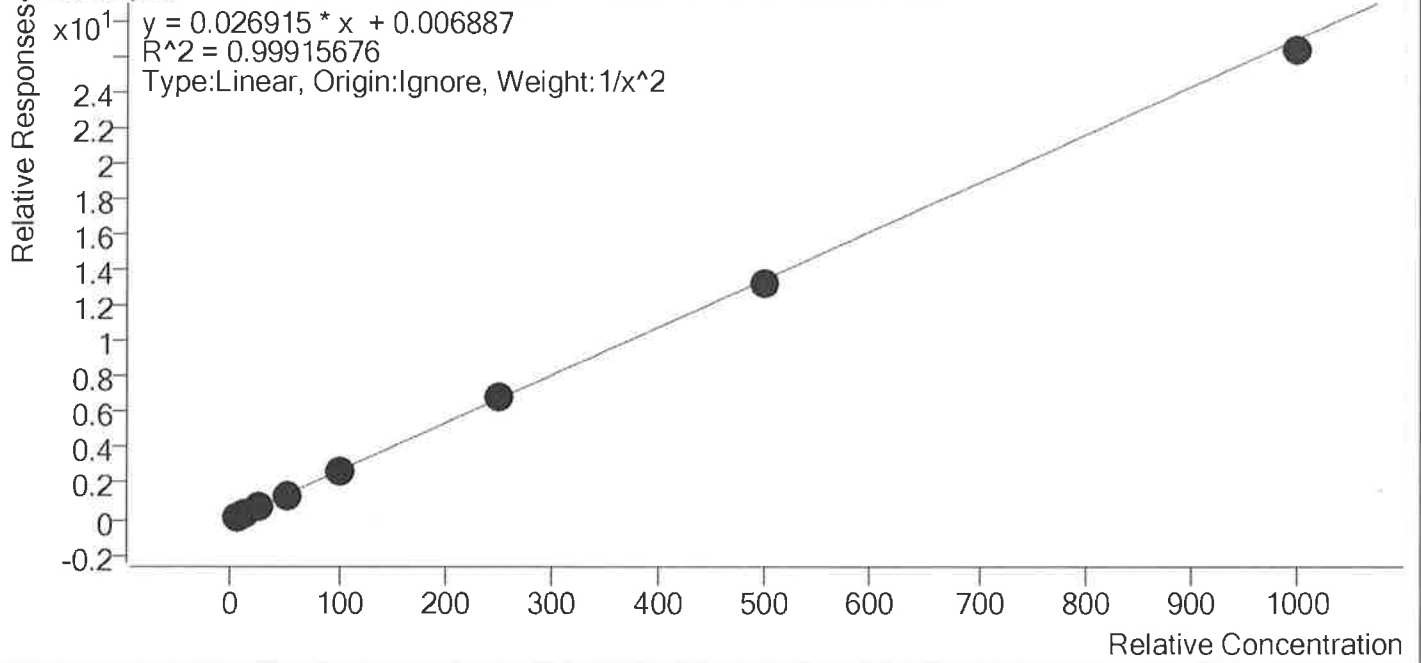
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	251.1	100.4
p1 Cal 7-500ng	7	✓	500.0	473.3	94.7
p1 Cal 8-1000ng	8	✓	1000.0	966.9	96.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	492.5	98.5
p1 Cal 8-1000ng	8	✓	1000.0	976.6	97.7

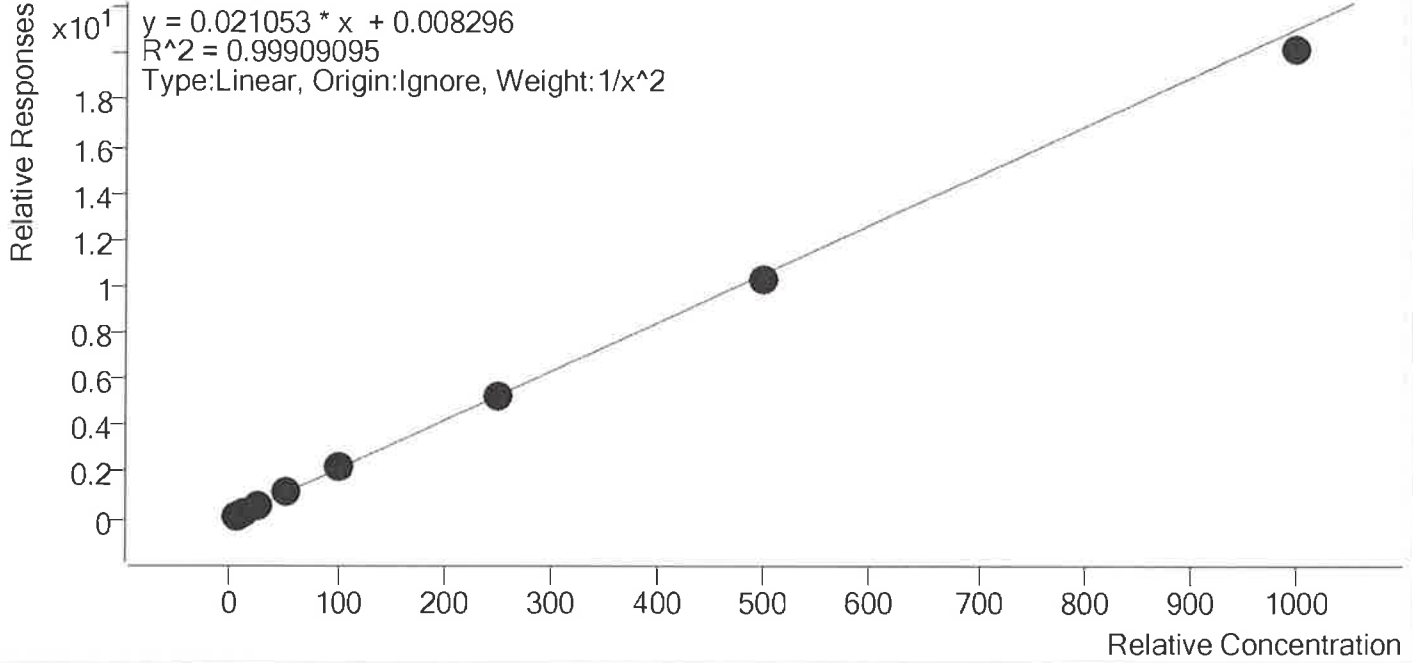




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



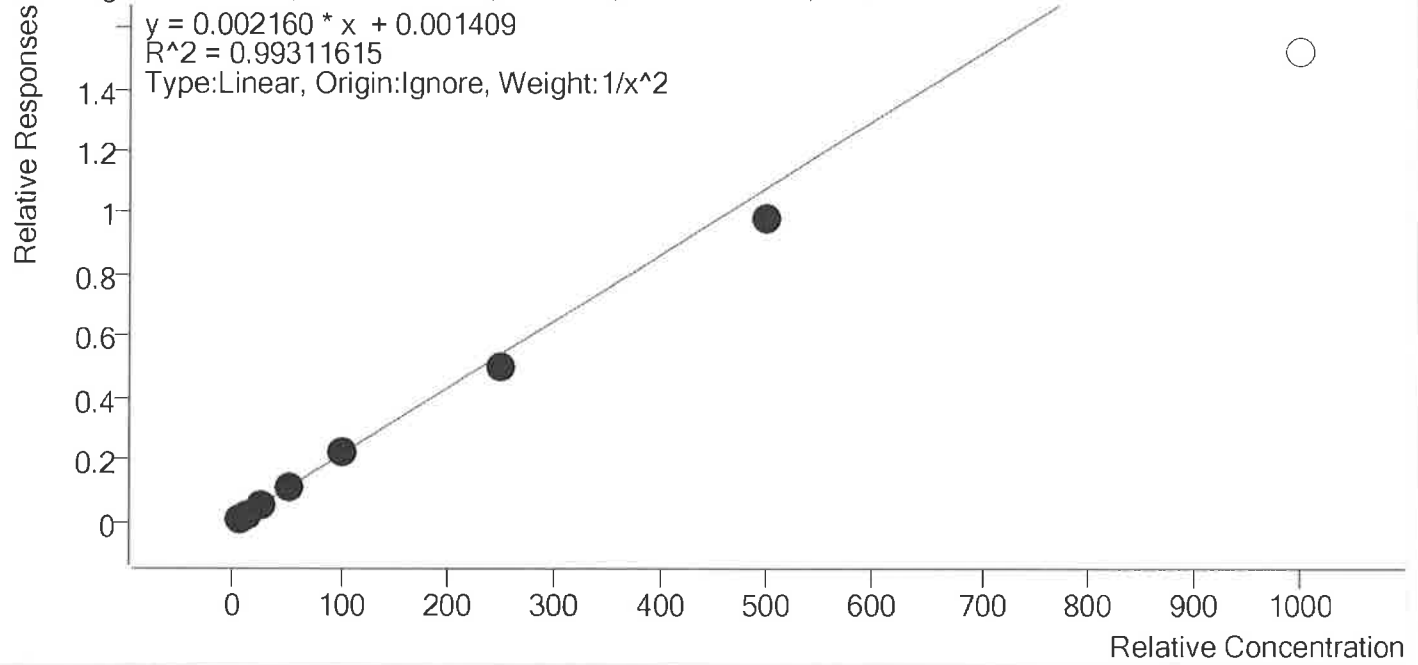
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	488.9	97.8
p1 Cal 8-1000ng	8	✓	1000.0	957.3	95.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SPI\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

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



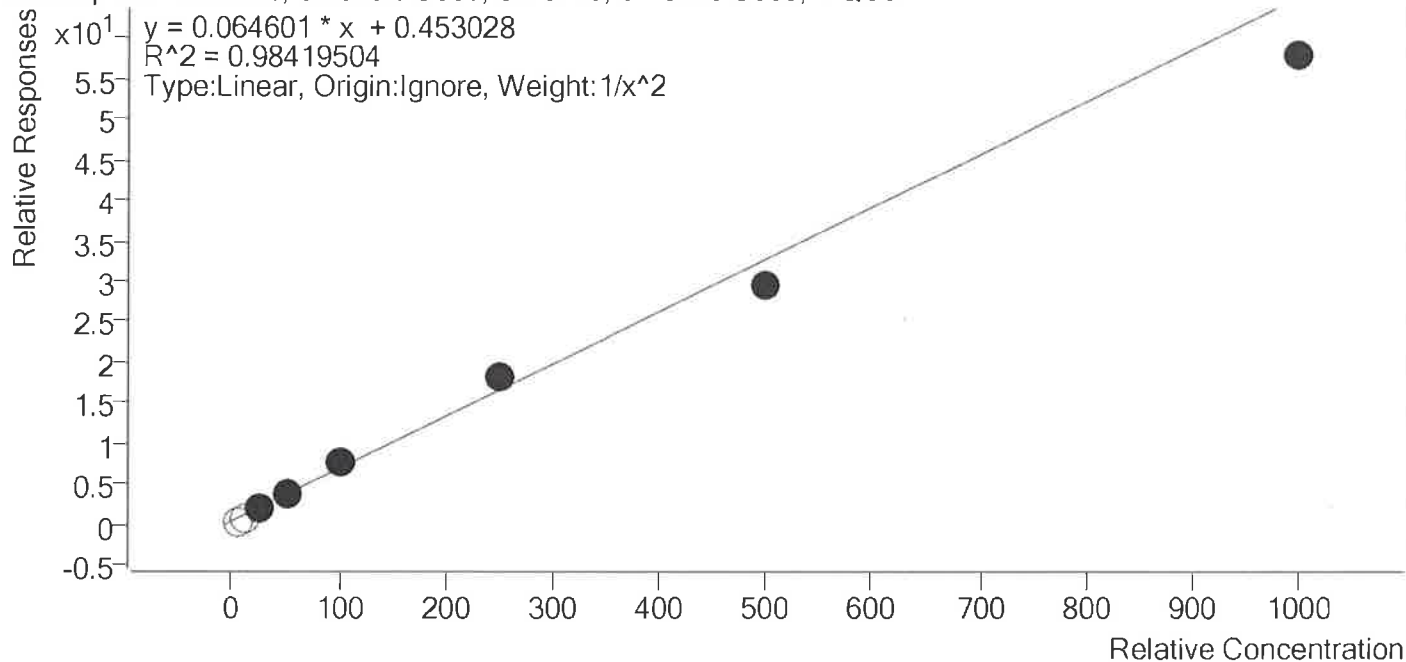
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.3
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	53.8	107.5
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	230.9	92.3
p1 Cal 7-500ng	7	✓	500.0	455.2	91.0
p1 Cal 8-1000ng	8	×	1000.0	702.3	70.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

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



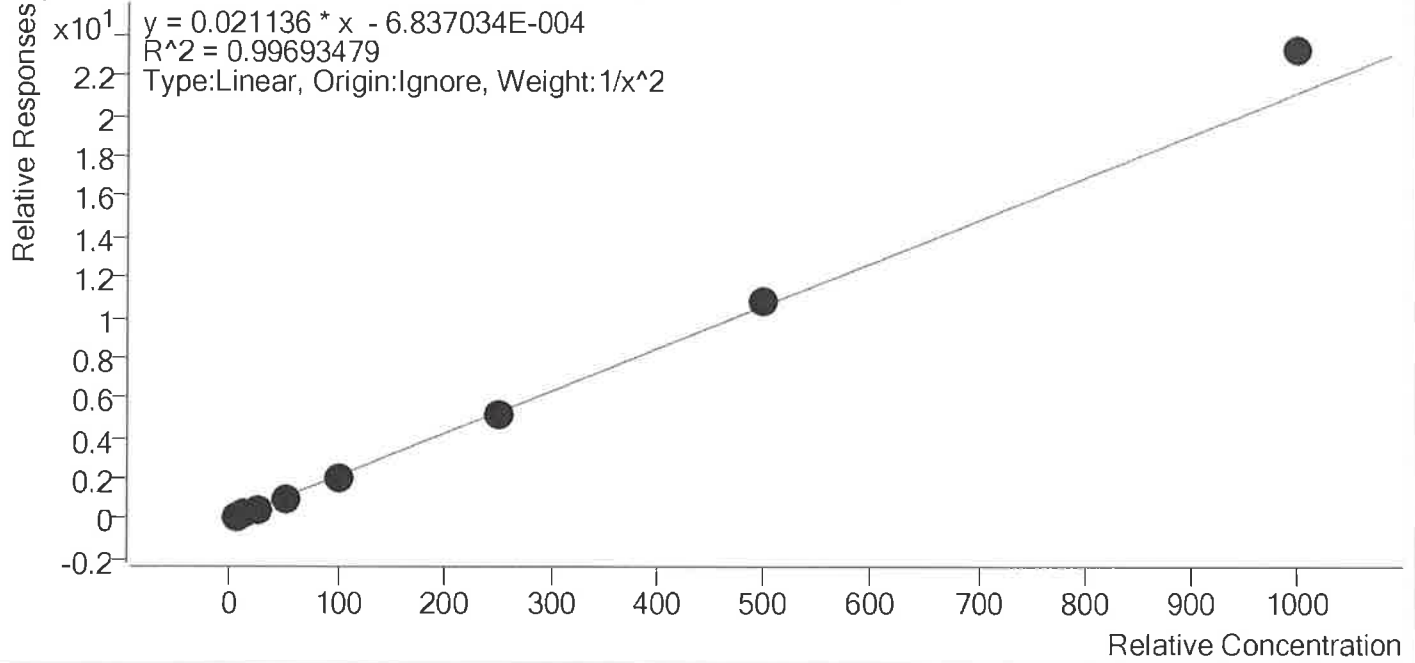
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	0.0	0.0
p1 Cal 2- 10ng	2	×	10.0	4.9	49.3
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.4
p1 Cal 4-50ng	4	✓	50.0	54.0	108.0
p1 Cal 5-100ng	5	✓	100.0	109.4	109.4
p1 Cal 6-250ng	6	✓	250.0	275.0	110.0
p1 Cal 7-500ng	7	✓	500.0	451.1	90.2
p1 Cal 8-1000ng	8	✓	1000.0	889.3	88.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

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



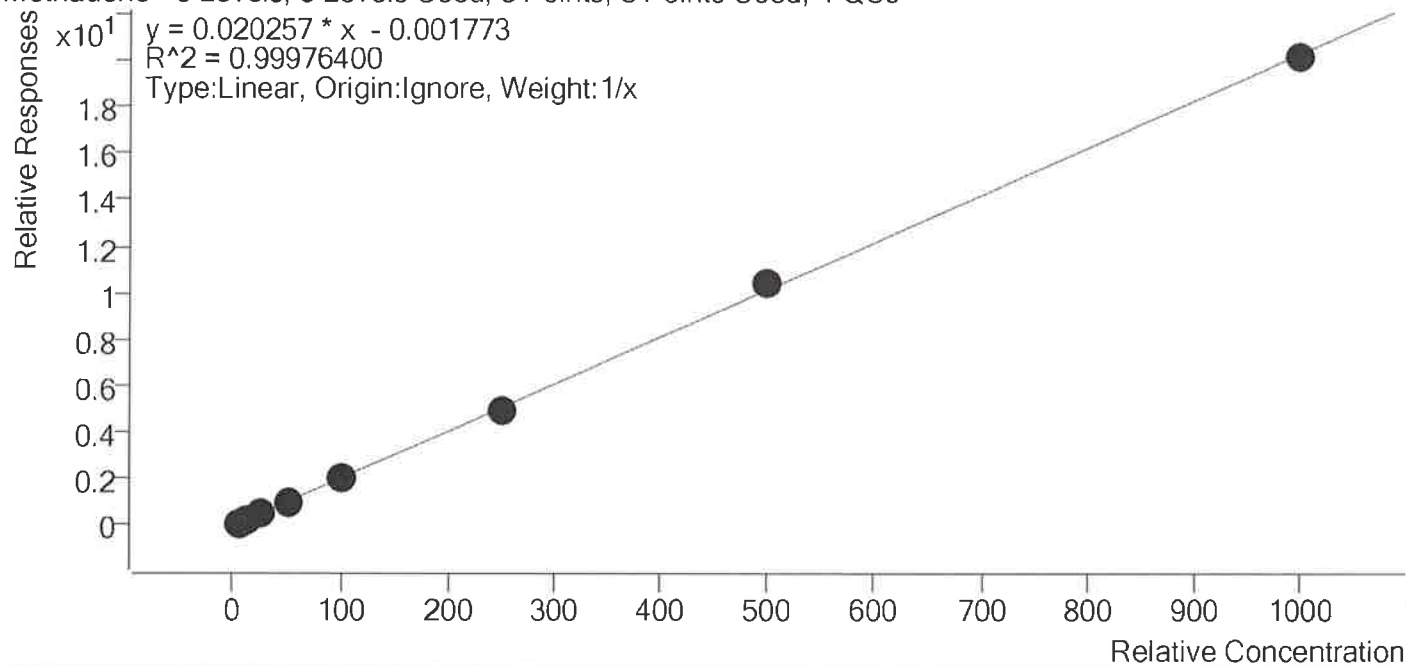
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.3
p1 Cal 4-50ng	4	✓	50.0	47.7	95.3
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	510.8	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1100.0	110.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



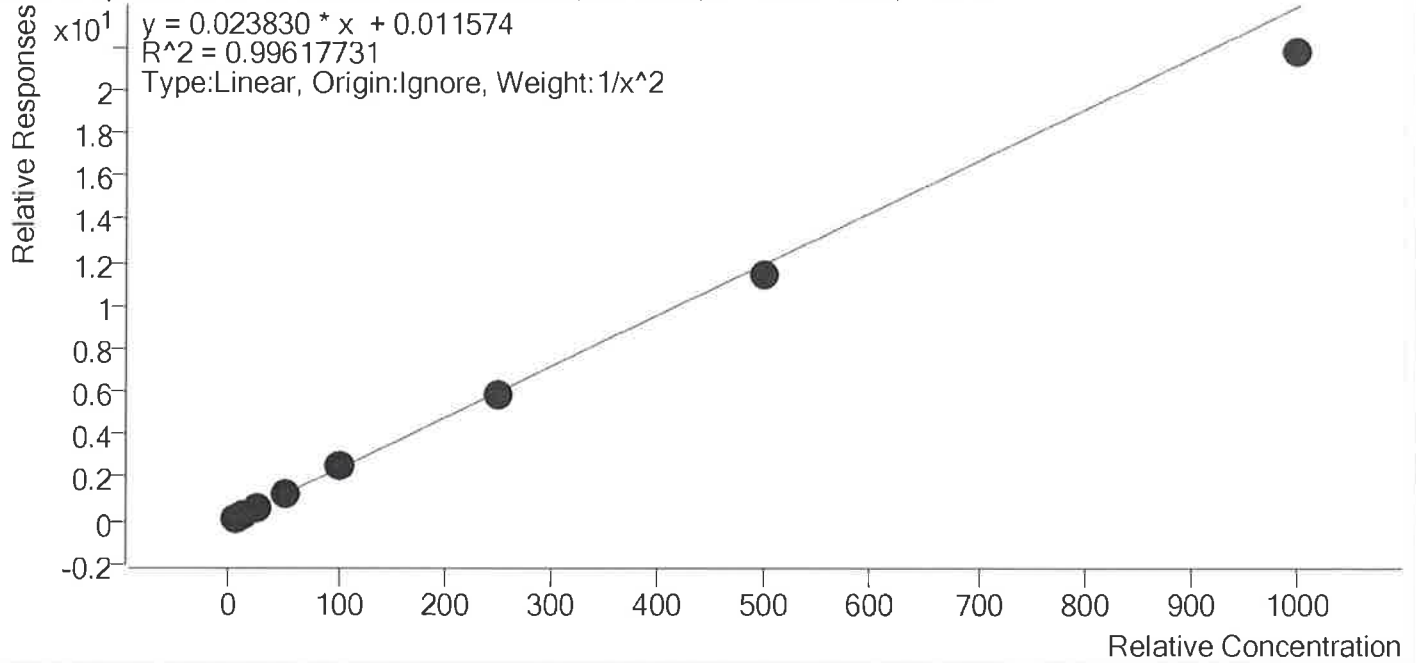
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	48.1	96.2
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	246.9	98.8
p1 Cal 7-500ng	7	✓	500.0	510.5	102.1
p1 Cal 8-1000ng	8	✓	1000.0	992.7	99.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

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



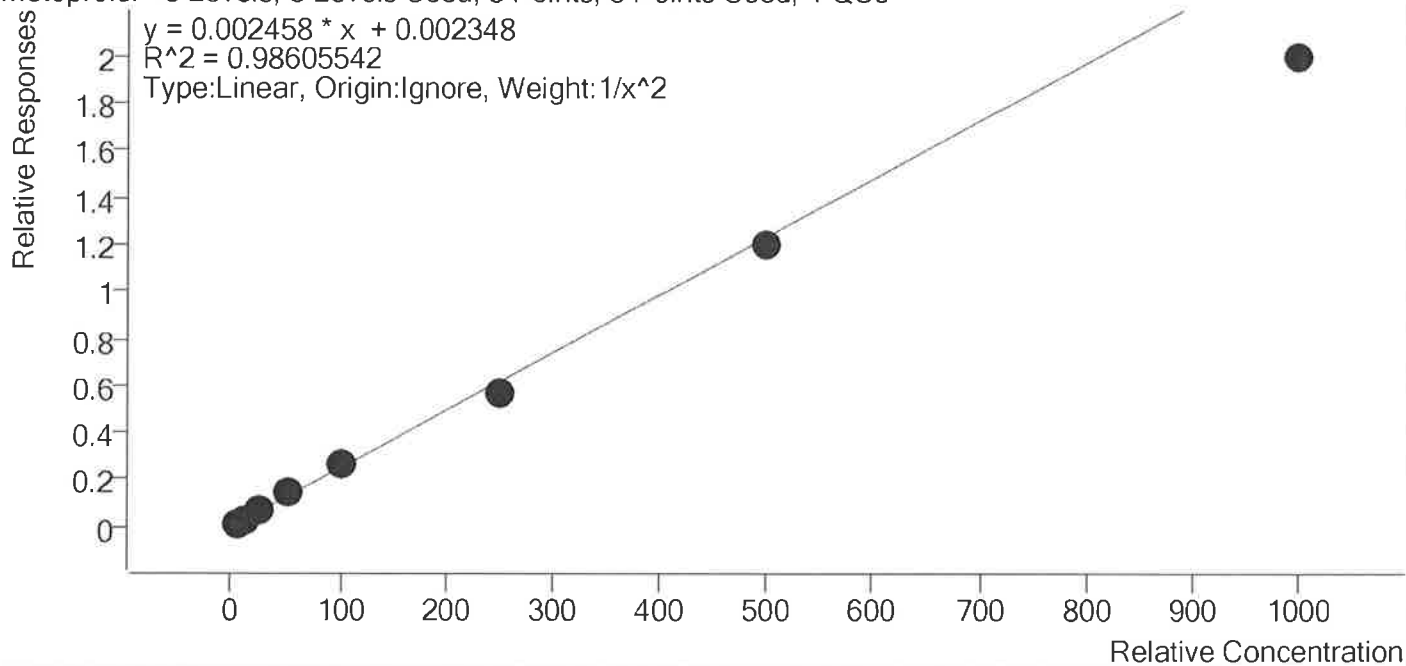
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	245.4	98.2
p1 Cal 7-500ng	7	✓	500.0	482.2	96.4
p1 Cal 8-1000ng	8	✓	1000.0	912.4	91.2



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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



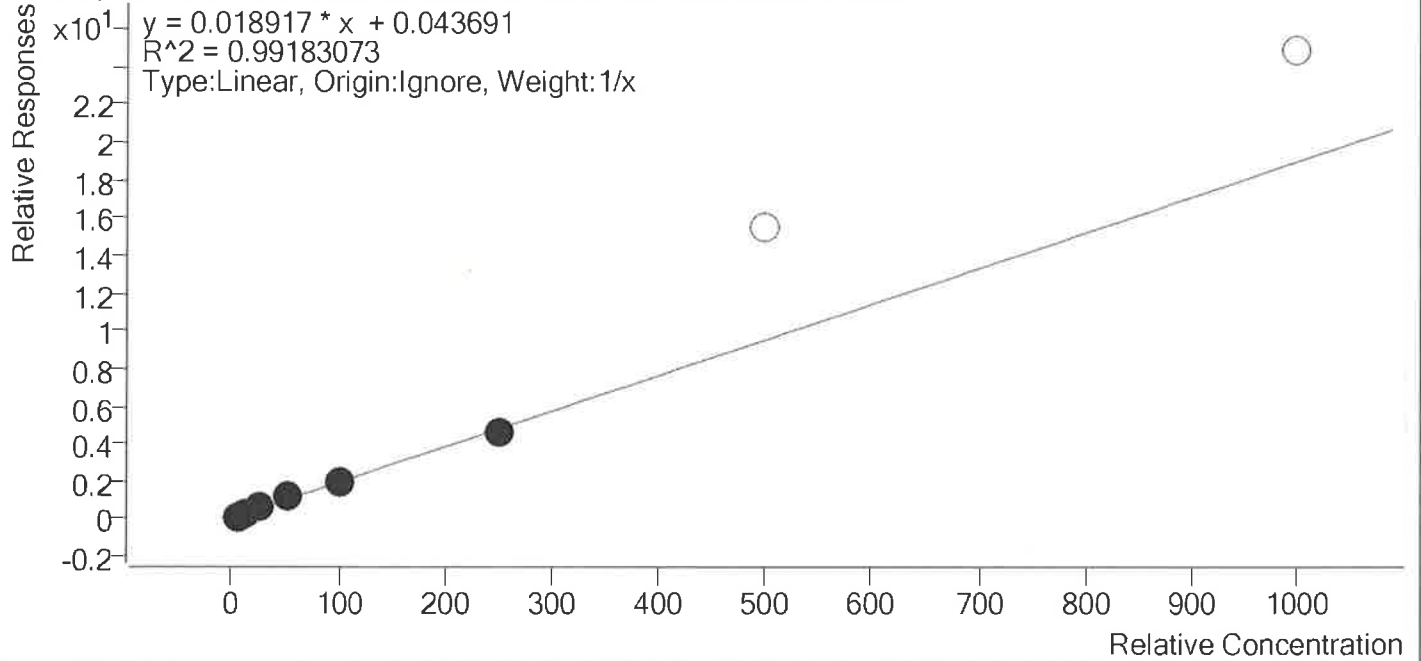
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.3
p1 Cal 4-50ng	4	✓	50.0	55.8	111.5
p1 Cal 5-100ng	5	✓	100.0	110.7	110.7
p1 Cal 6-250ng	6	✓	250.0	232.4	92.9
p1 Cal 7-500ng	7	✓	500.0	489.2	97.8
p1 Cal 8-1000ng	8	✓	1000.0	810.0	81.0



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

Mirtazapine - 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	3.6	72.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.5
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng	4	✓	50.0	59.7	119.4
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	242.0	96.8
p1 Cal 7-500ng	7	×	500.0	812.3	162.5
p1 Cal 8-1000ng	8	×	1000.0	1311.8	131.2

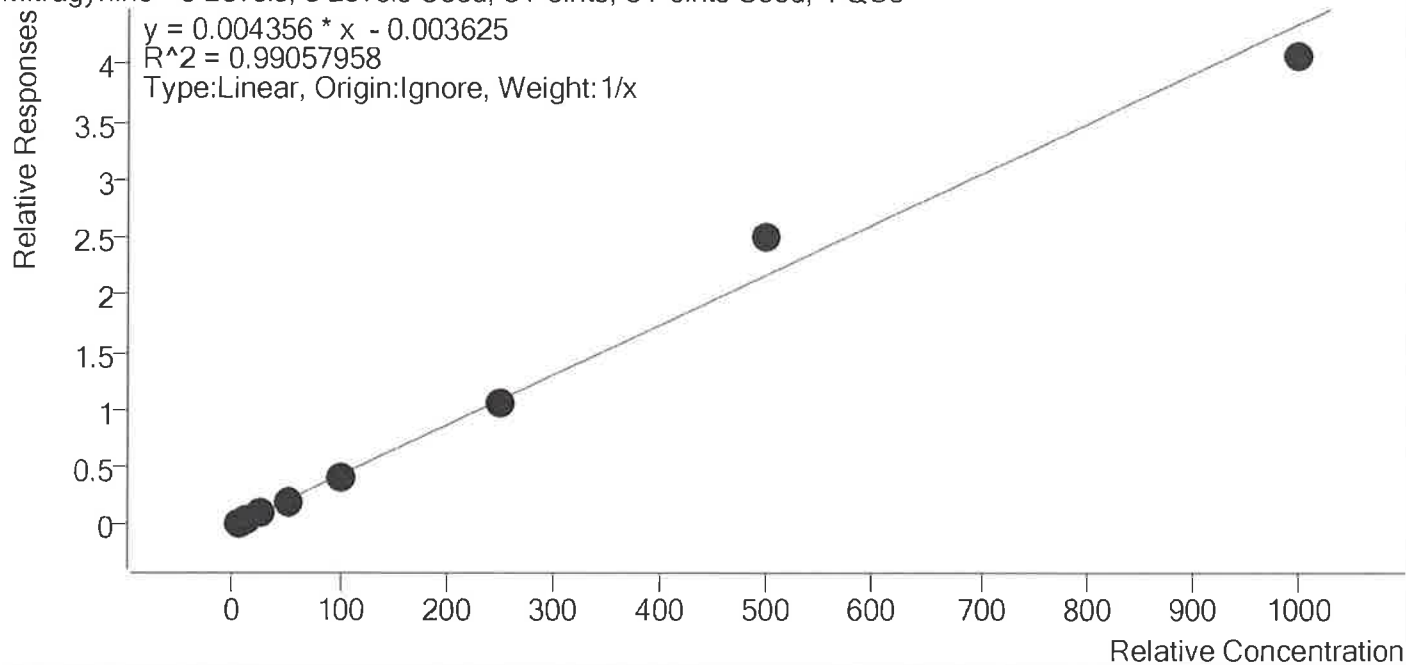




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

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

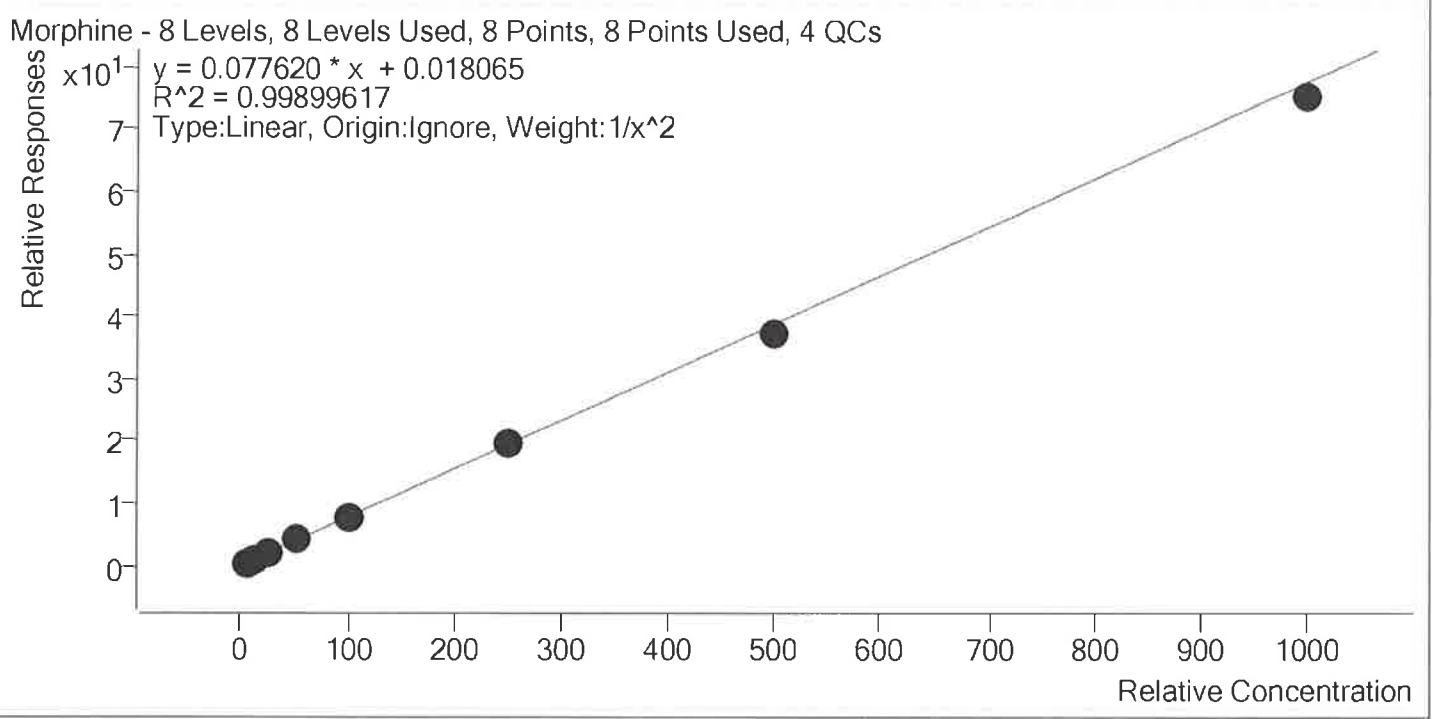


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.1
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	45.1	90.3
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	247.1	98.9
p1 Cal 7-500ng	7	✓	500.0	576.9	115.4
p1 Cal 8-1000ng	8	✓	1000.0	935.5	93.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6



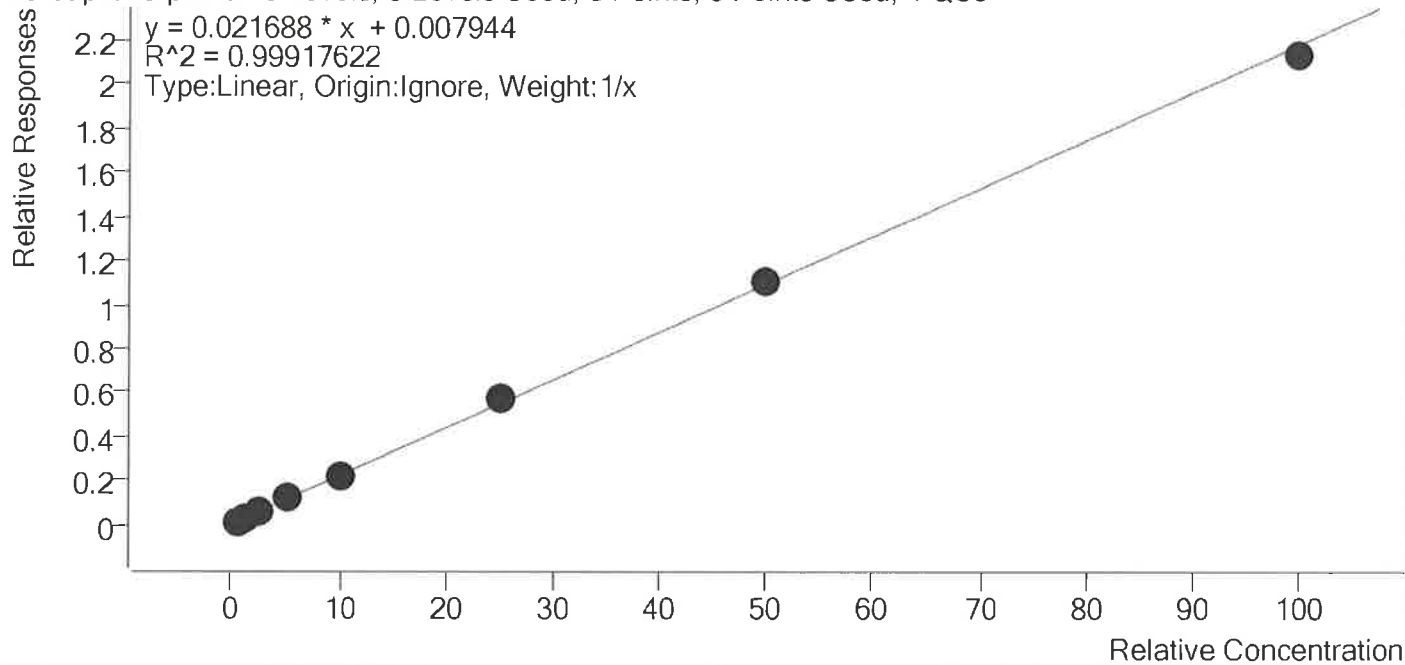
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	51.9	103.7
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	479.6	95.9
p1 Cal 8-1000ng	8	✓	1000.0	969.0	96.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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



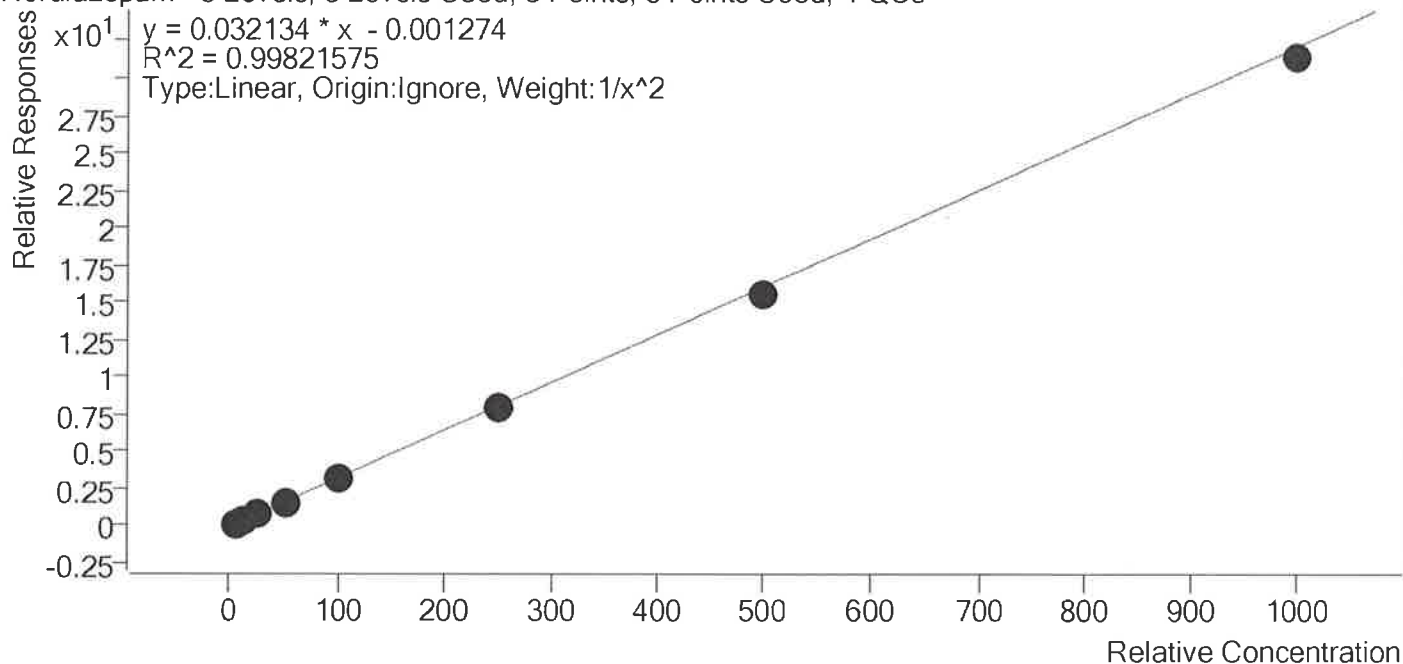
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.4	82.5
p1 Cal 2- 10ng	2	✓	1.0	1.1	109.5
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.3
p1 Cal 4-50ng	4	✓	5.0	5.2	103.1
p1 Cal 5-100ng	5	✓	10.0	10.1	100.7
p1 Cal 6-250ng	6	✓	25.0	26.1	104.5
p1 Cal 7-500ng	7	✓	50.0	50.9	101.8
p1 Cal 8-1000ng	8	✓	100.0	97.8	97.8



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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



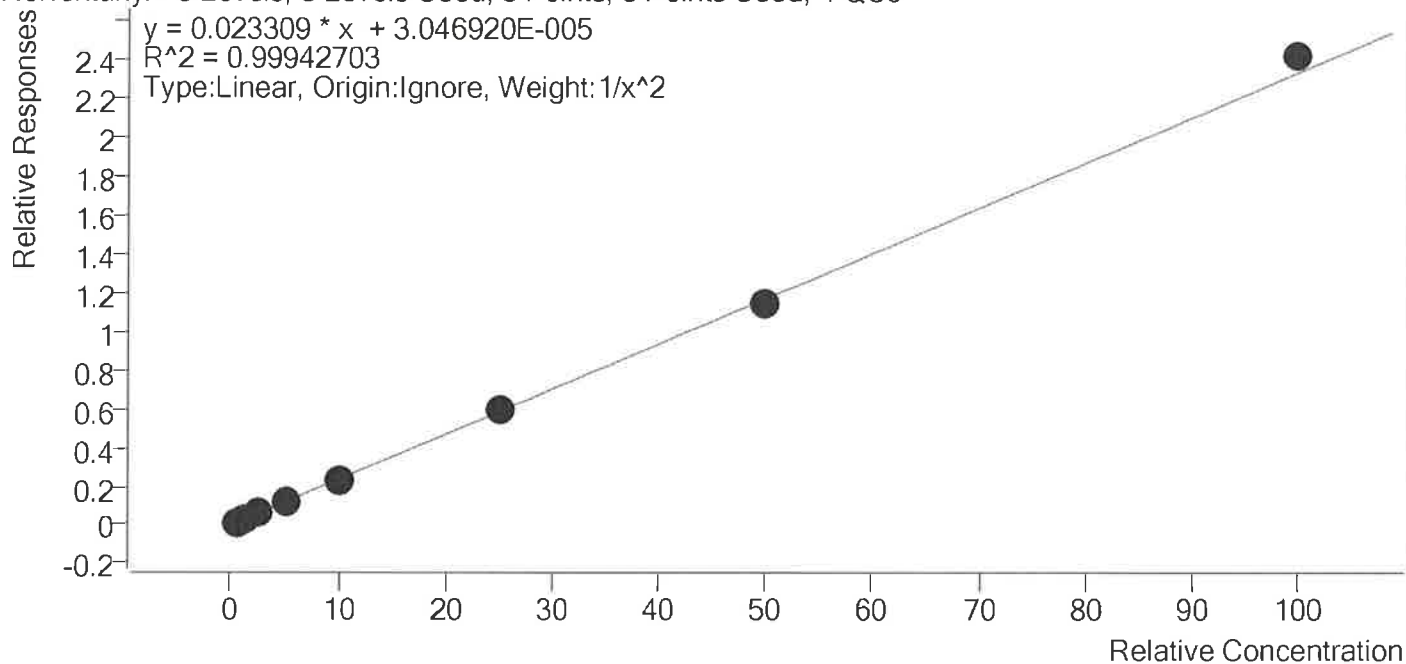
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.2
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.3
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	248.4	99.3
p1 Cal 7-500ng	7	✓	500.0	485.0	97.0
p1 Cal 8-1000ng	8	✓	1000.0	976.8	97.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



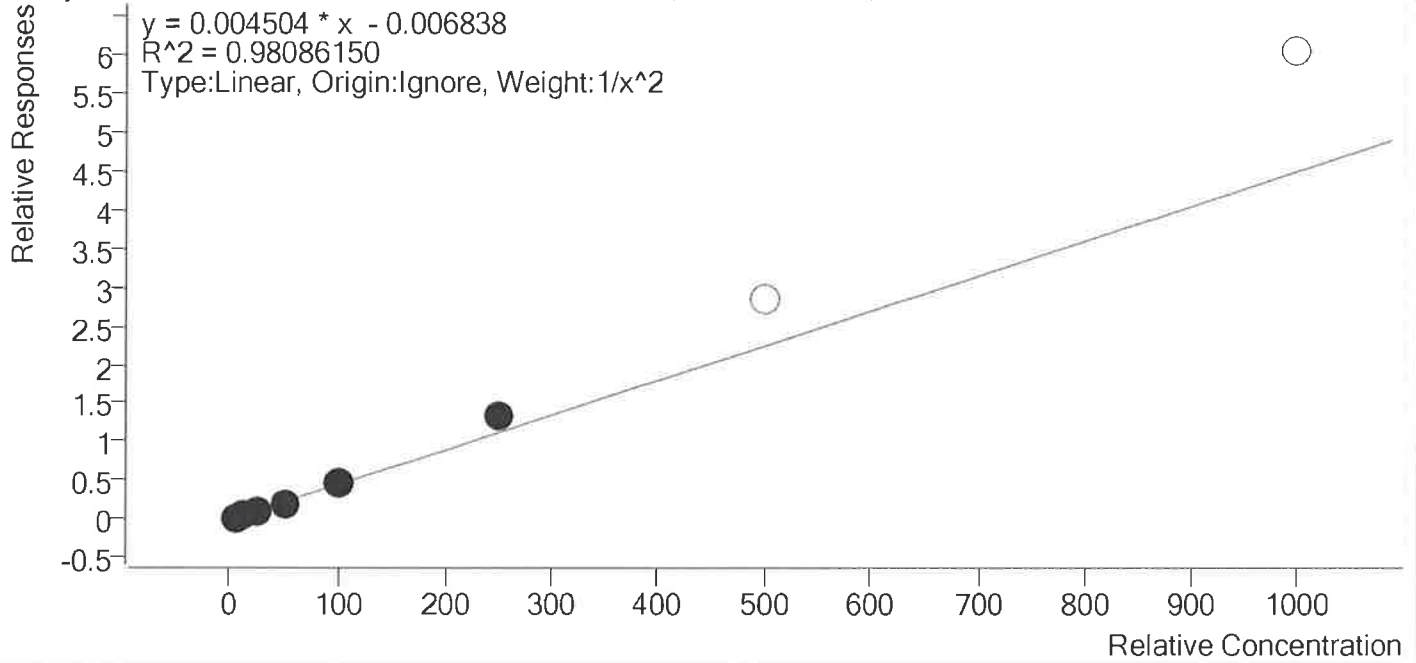
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.1
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.5
p1 Cal 4-50ng	4	✓	5.0	4.9	97.3
p1 Cal 5-100ng	5	✓	10.0	10.0	99.7
p1 Cal 6-250ng	6	✓	25.0	25.2	100.6
p1 Cal 7-500ng	7	✓	50.0	49.3	98.6
p1 Cal 8-1000ng	8	✓	100.0	103.7	103.7



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



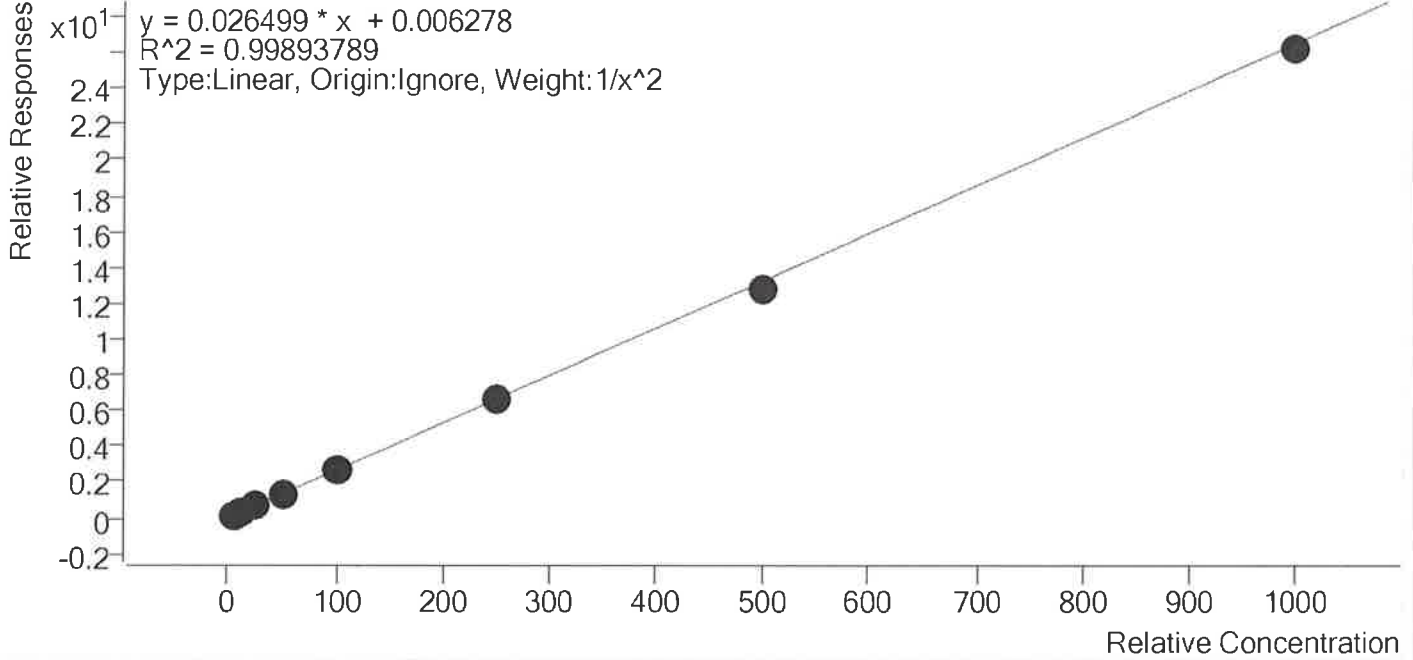
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.2
p1 Cal 2- 10ng	2	✓	10.0	9.3	93.2
p1 Cal 3 -25ng	3	✓	25.0	22.0	88.0
p1 Cal 4-50ng	4	✓	50.0	45.6	91.1
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	295.4	118.1
p1 Cal 7-500ng	7	×	500.0	638.8	127.8
p1 Cal 8-1000ng	8	×	1000.0	1345.6	134.6



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

**Batch results** D:\MassHunterData\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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



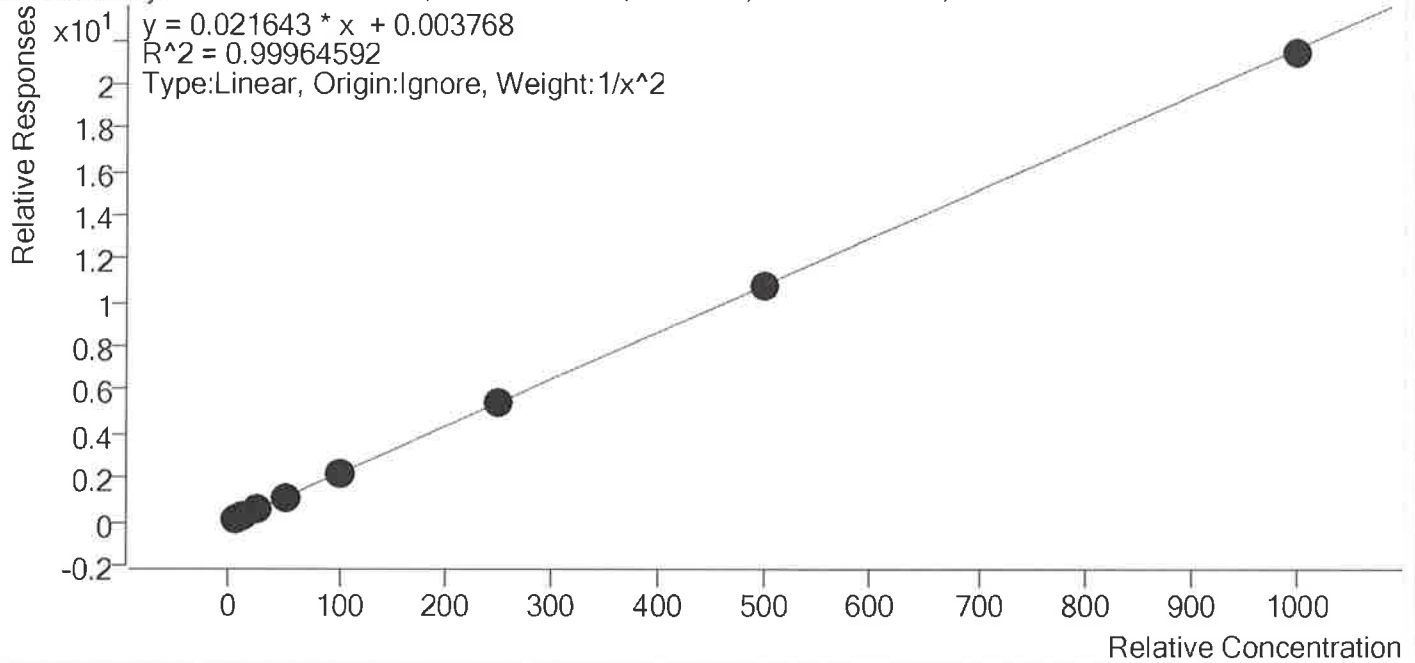
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.4
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	482.5	96.5
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\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

O-desmethyl-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	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.6
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	495.4	99.1
p1 Cal 8-1000ng	8	✓	1000.0	990.7	99.1

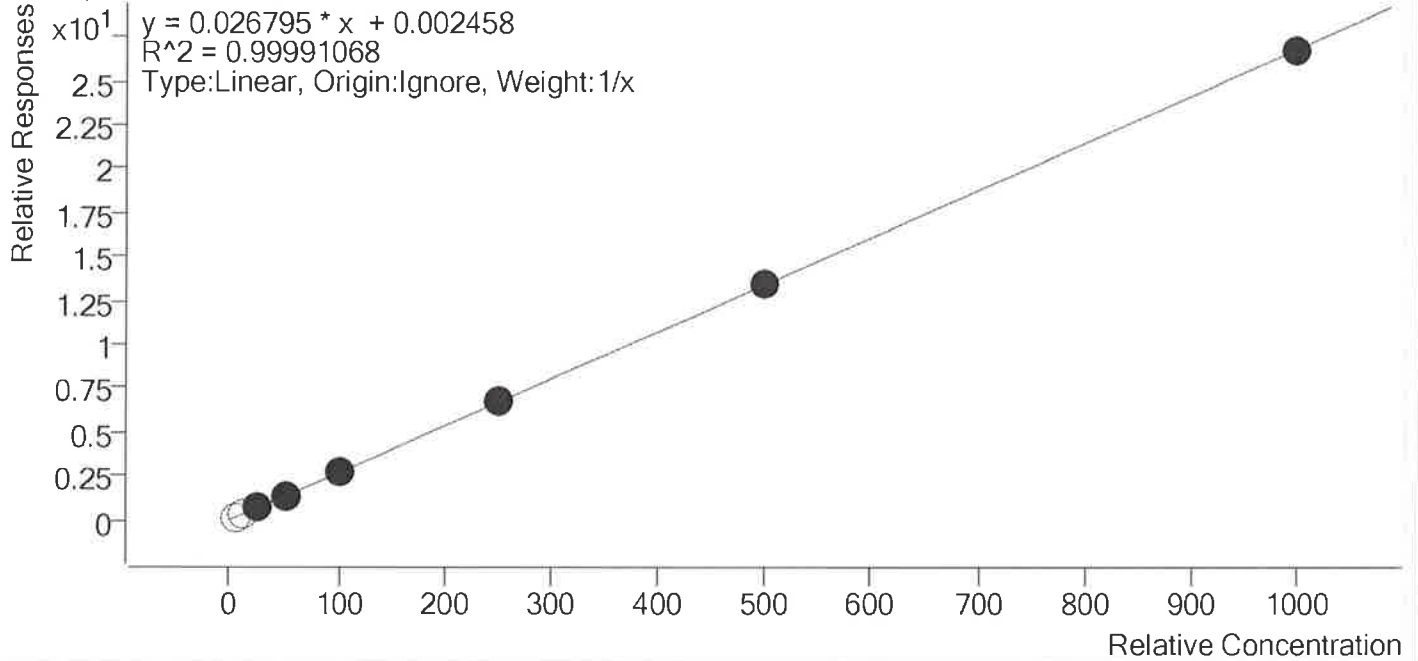




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

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



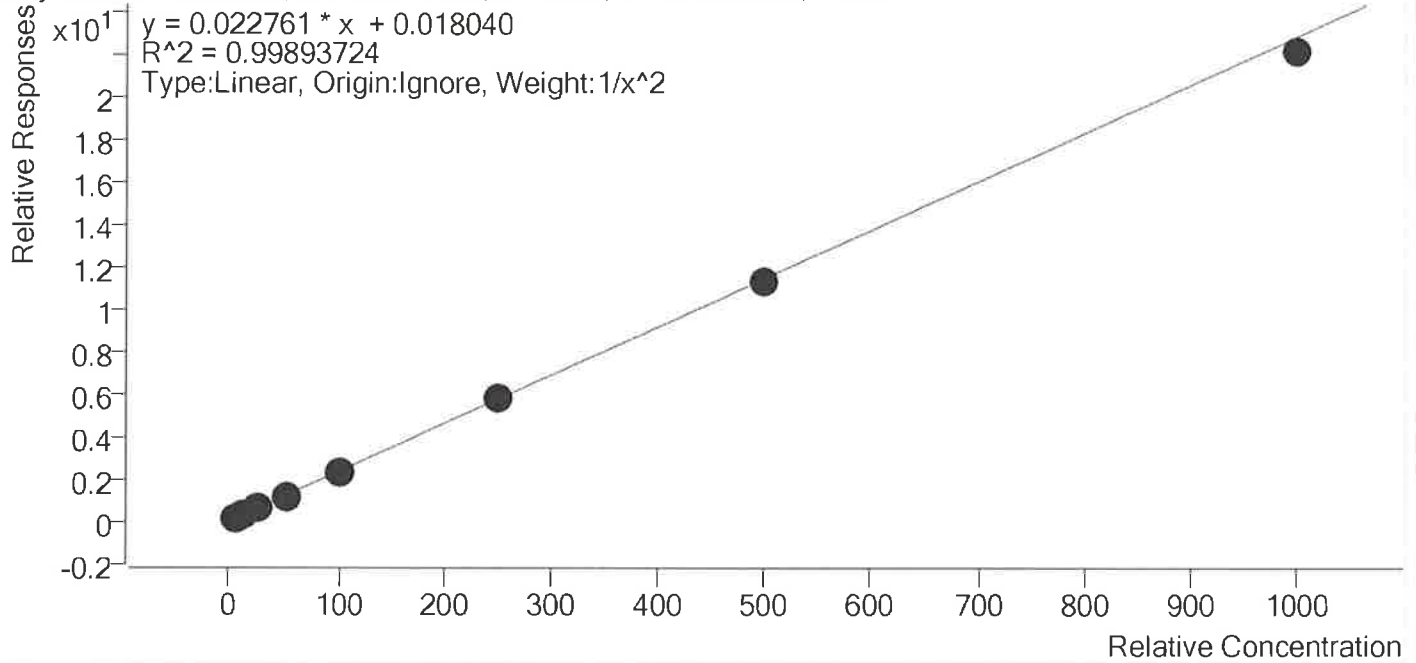
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	6.4	127.5
p1 Cal 2- 10ng	2	x	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	253.1	101.2
p1 Cal 7-500ng	7	✓	500.0	499.3	99.9
p1 Cal 8-1000ng	8	✓	1000.0	996.4	99.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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



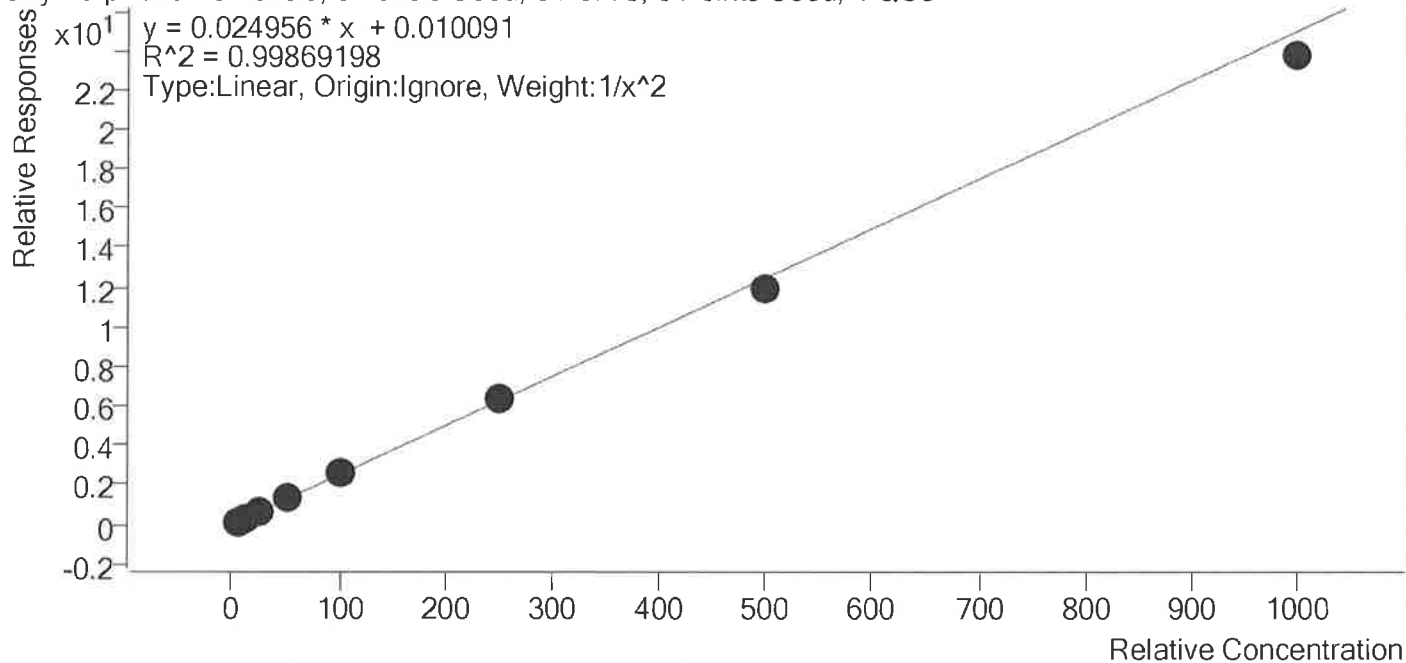
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.4
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	493.7	98.7
p1 Cal 8-1000ng	8	✓	1000.0	968.5	96.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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

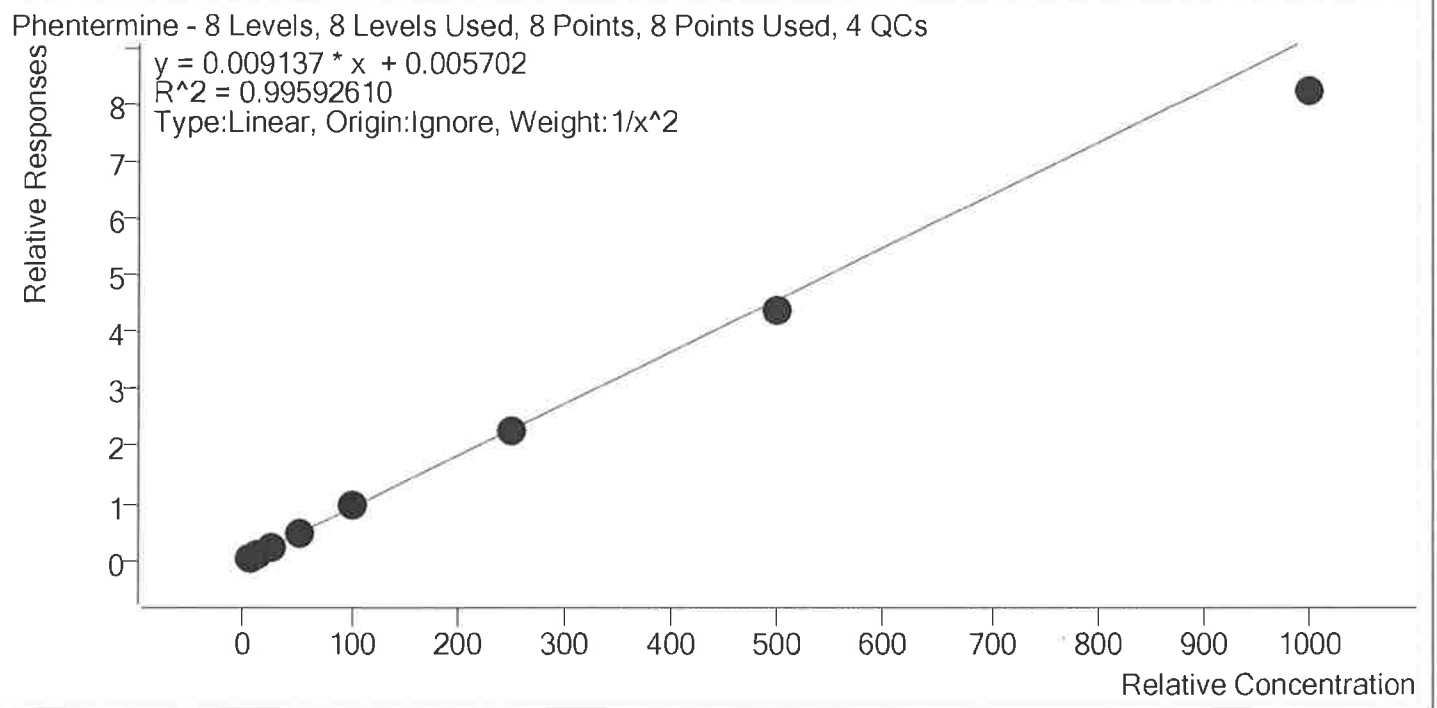


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	254.5	101.8
p1 Cal 7-500ng	7	✓	500.0	480.0	96.0
p1 Cal 8-1000ng	8	✓	1000.0	950.6	95.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5



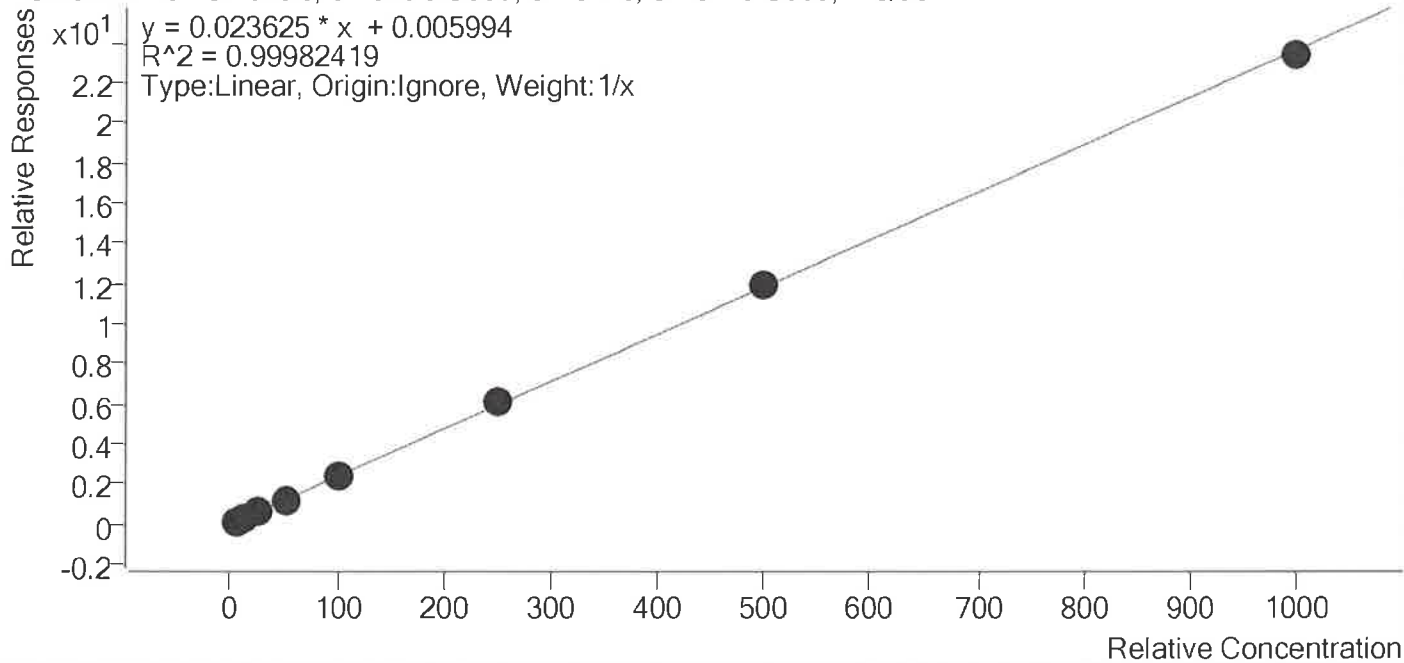
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	52.2	104.5
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	250.1	100.1
p1 Cal 7-500ng	7	✓	500.0	479.3	95.9
p1 Cal 8-1000ng	8	✓	1000.0	898.5	89.8



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

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



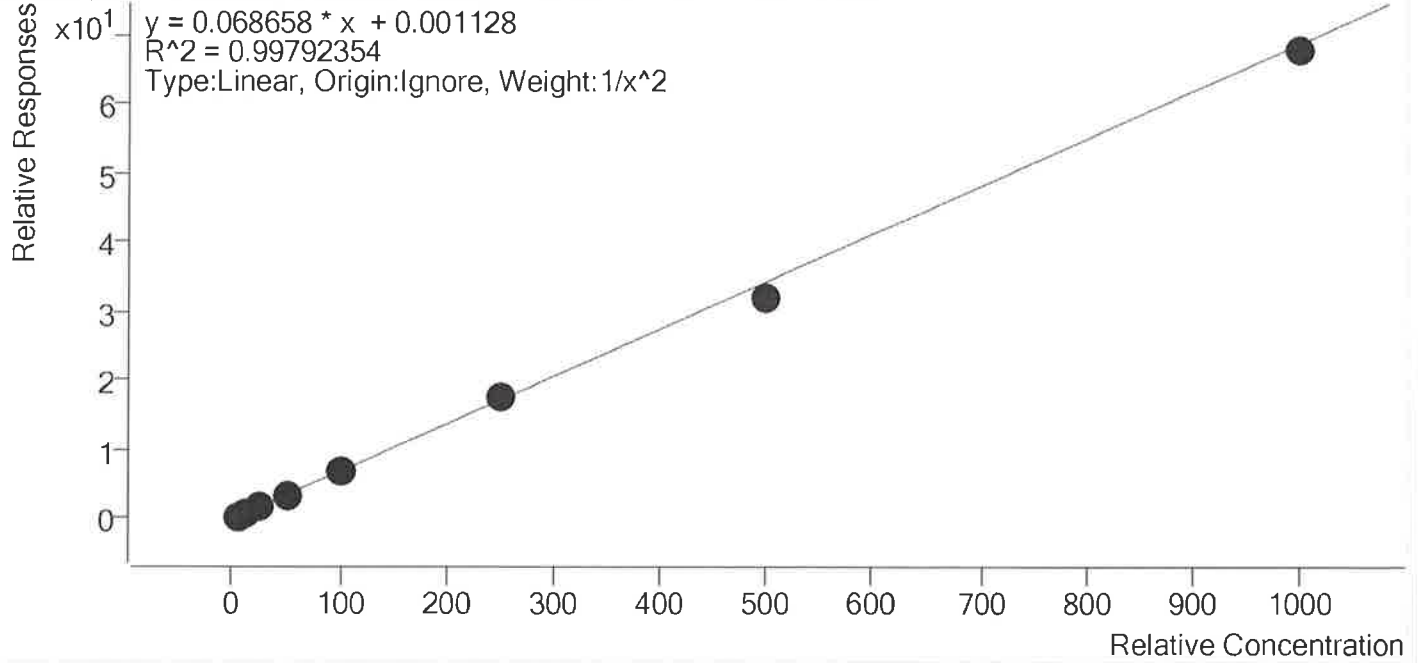
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	49.7	99.5
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	504.5	100.9
p1 Cal 8-1000ng	8	✓	1000.0	989.2	98.9



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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



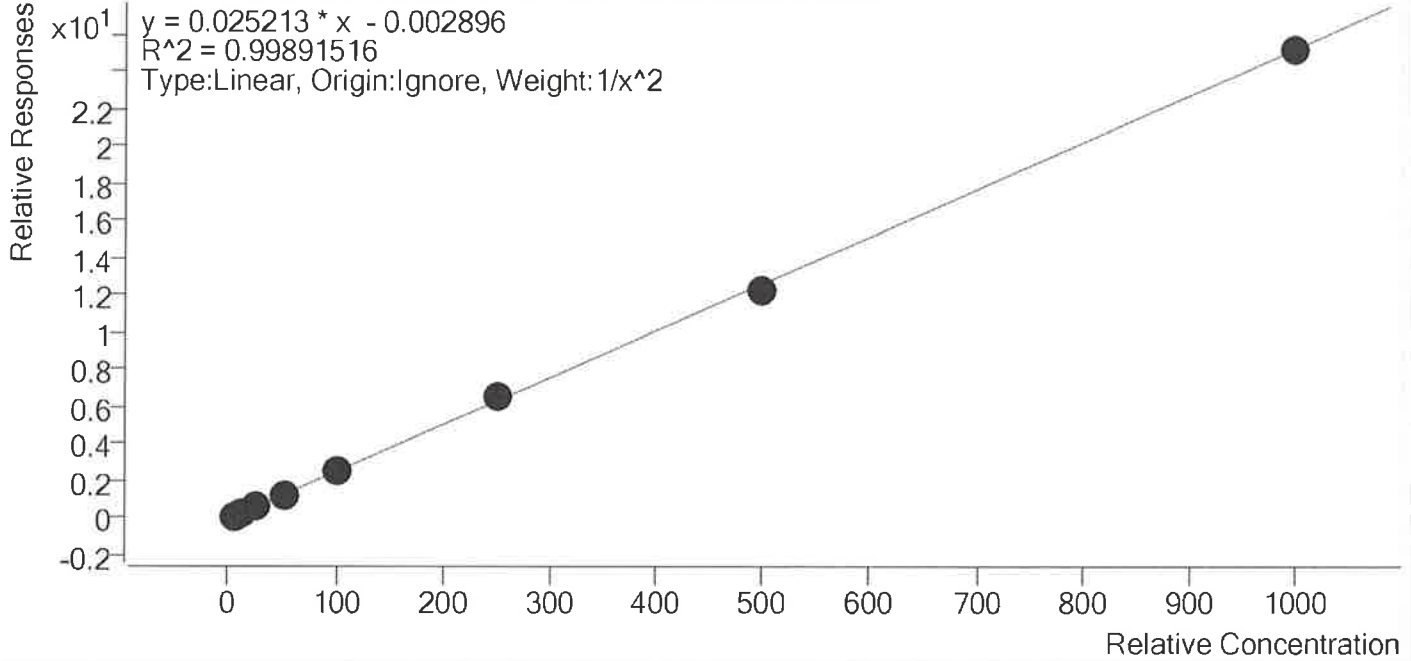
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.7
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	255.1	102.0
p1 Cal 7-500ng	7	✓	500.0	465.8	93.2
p1 Cal 8-1000ng	8	✓	1000.0	985.5	98.5



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.4
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	49.1	98.2
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	257.8	103.1
p1 Cal 7-500ng	7	✓	500.0	485.0	97.0
p1 Cal 8-1000ng	8	✓	1000.0	997.3	99.7

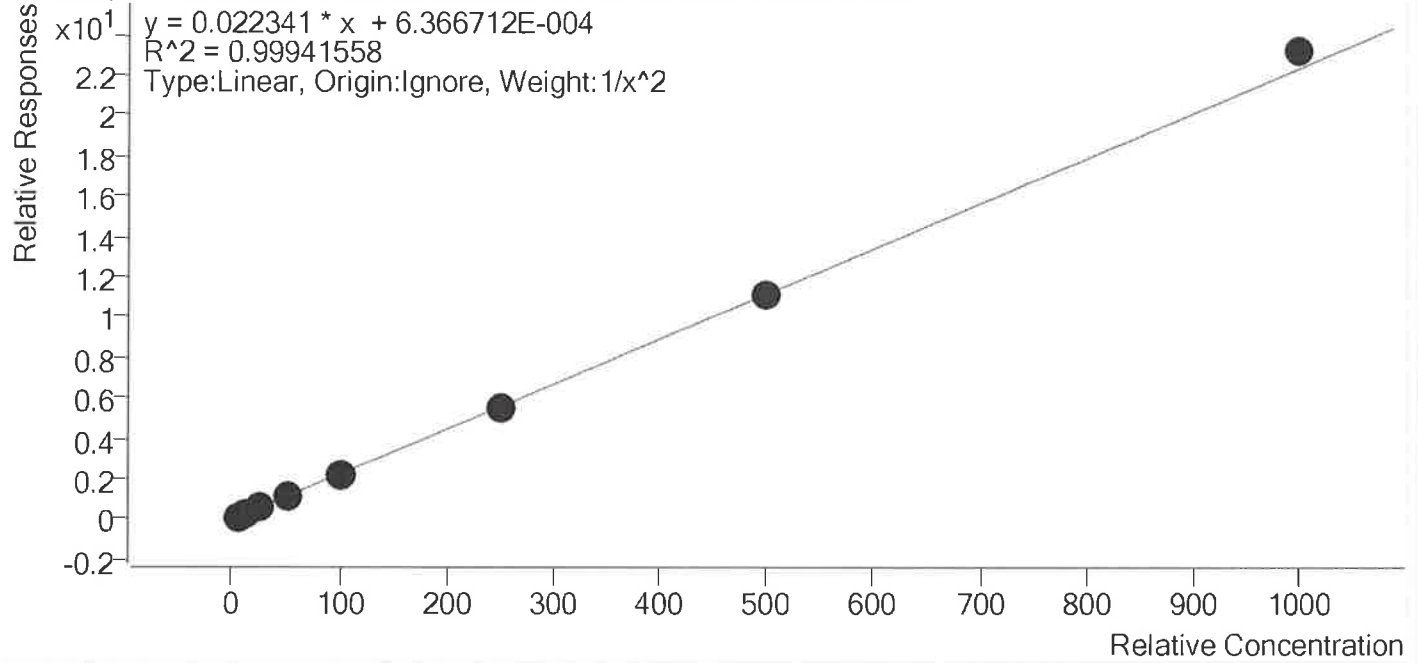
Reported qualitatively.



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	5.0	101.0
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.4
p1 Cal 3 -25ng	3	✓	25.0	25.2	101.0
p1 Cal 4-50ng	4	✓	50.0	48.4	96.8
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng	7	✓	500.0	500.3	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1038.3	103.8

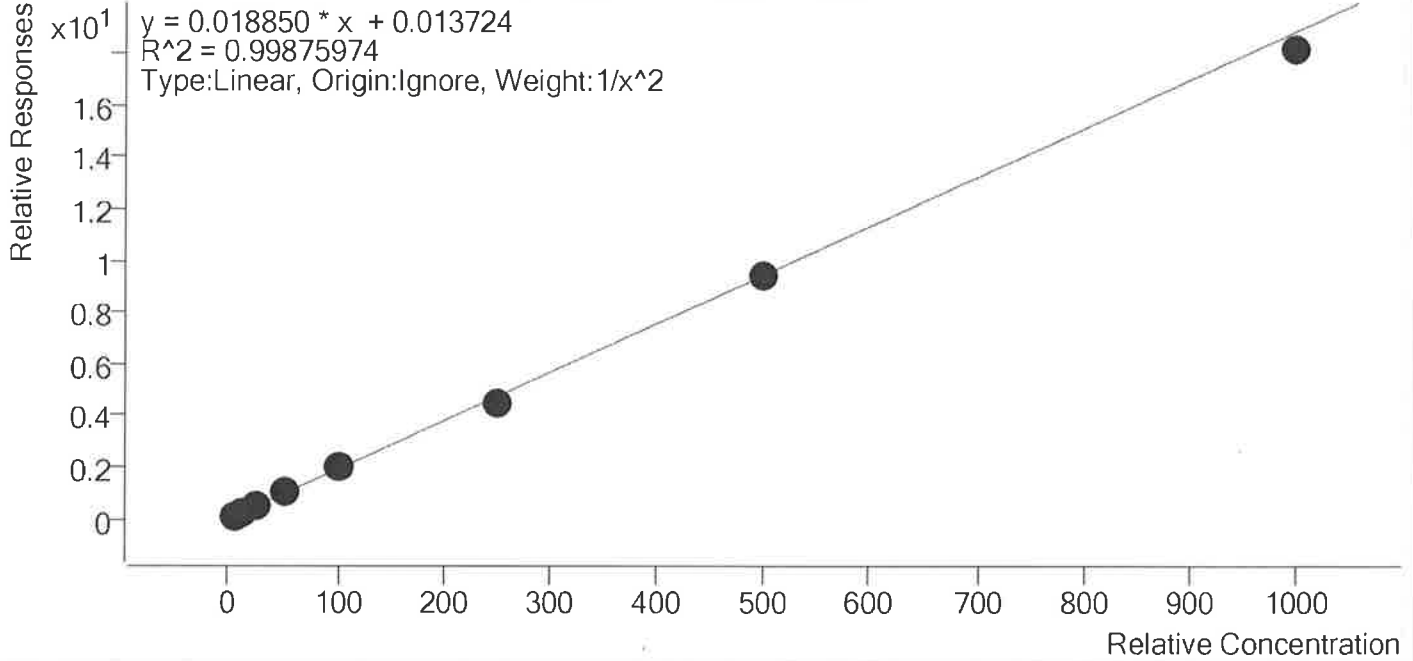




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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



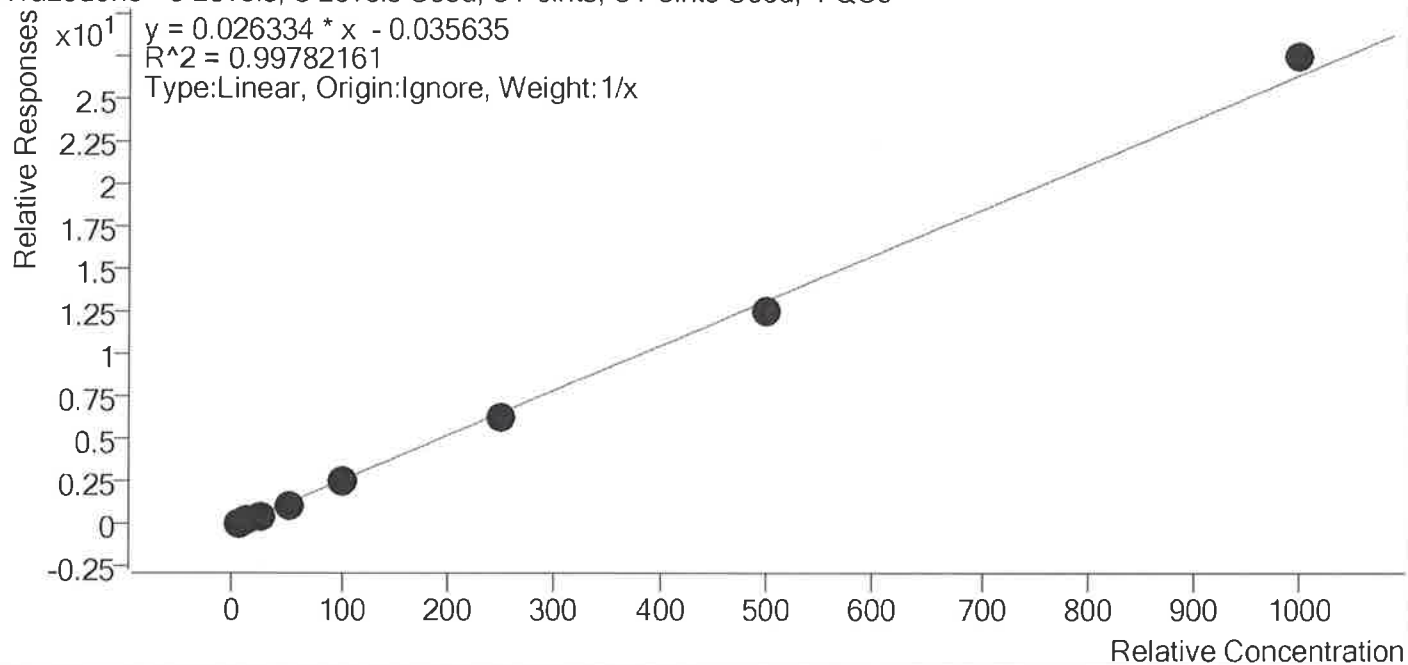
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.1
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	239.2	95.7
p1 Cal 7-500ng	7	✓	500.0	498.2	99.6
p1 Cal 8-1000ng	8	✓	1000.0	962.6	96.3



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

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



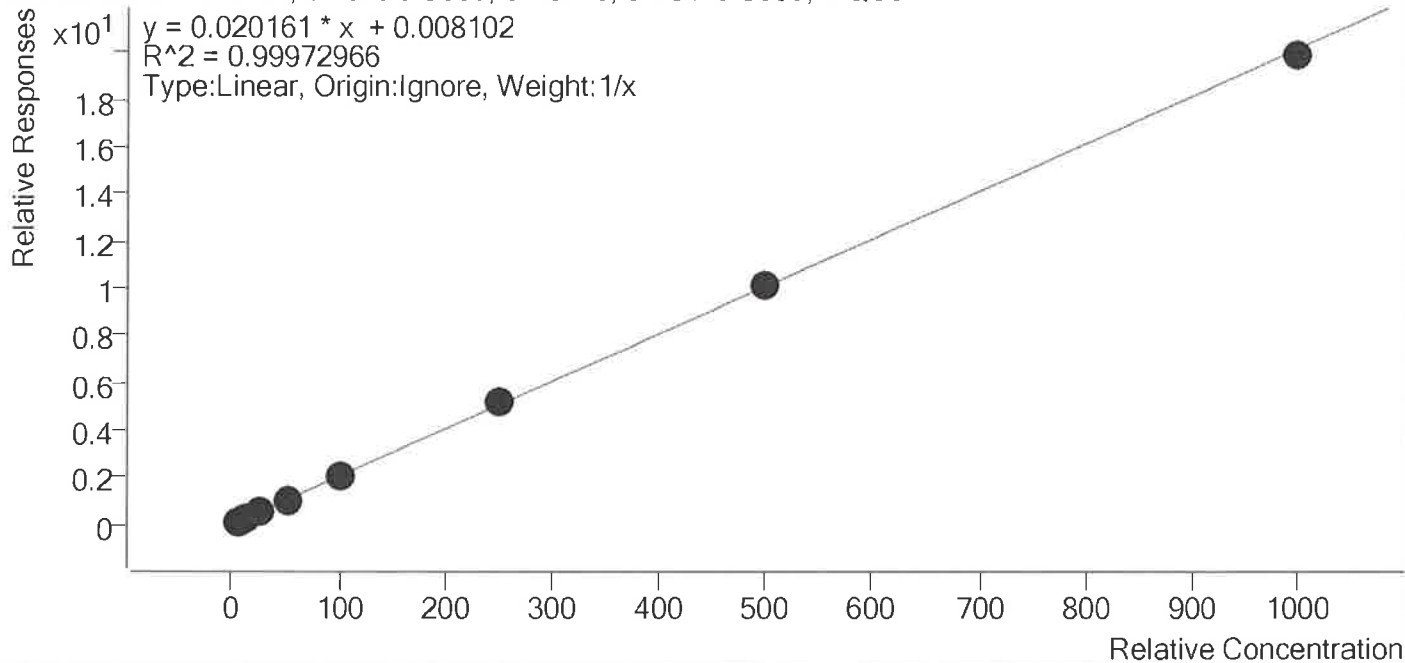
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.5
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	45.8	91.5
p1 Cal 5-100ng	5	✓	100.0	95.2	95.2
p1 Cal 6-250ng	6	✓	250.0	238.8	95.5
p1 Cal 7-500ng	7	✓	500.0	478.8	95.8
p1 Cal 8-1000ng	8	✓	1000.0	1041.0	104.1



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 PM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

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



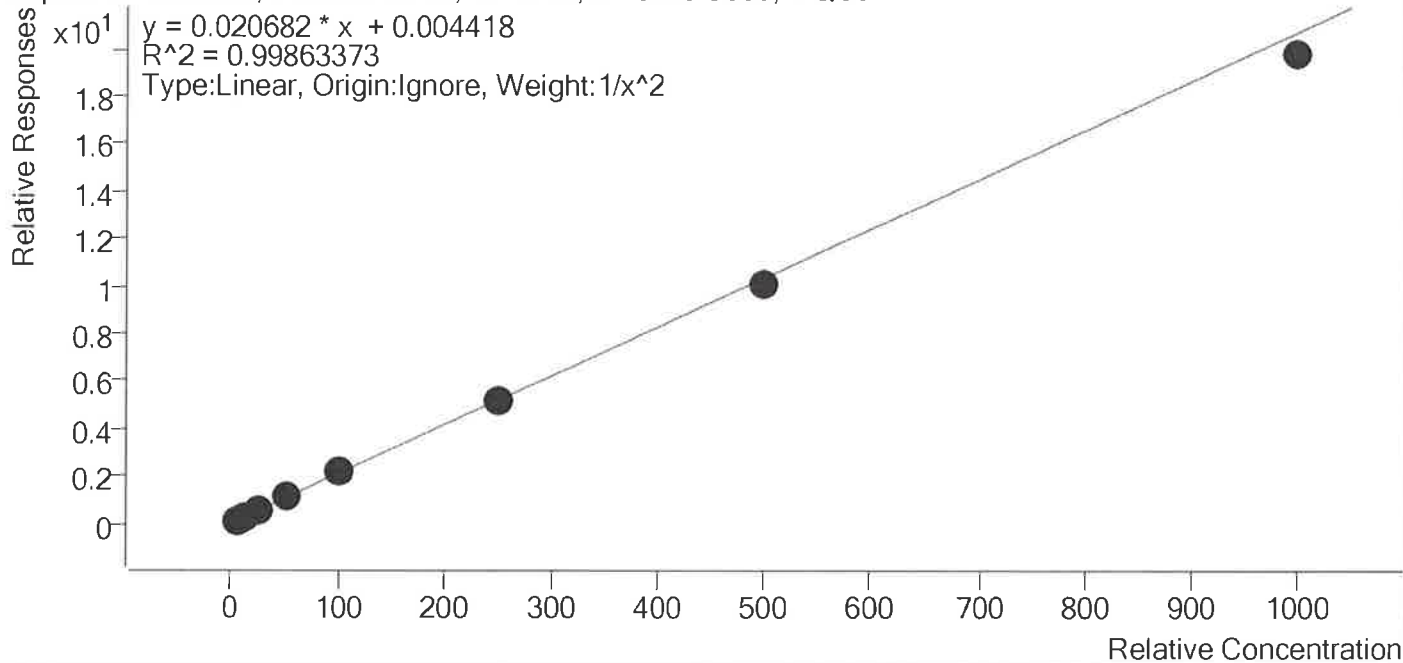
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	506.1	101.2
p1 Cal 8-1000ng	8	✓	1000.0	986.0	98.6



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

**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Last Cal. Update** 6/17/2019 12:02 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	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	484.6	96.9
p1 Cal 8-1000ng	8	✓	1000.0	955.5	95.5

# AM #28 Multi-Drug Quant. Results



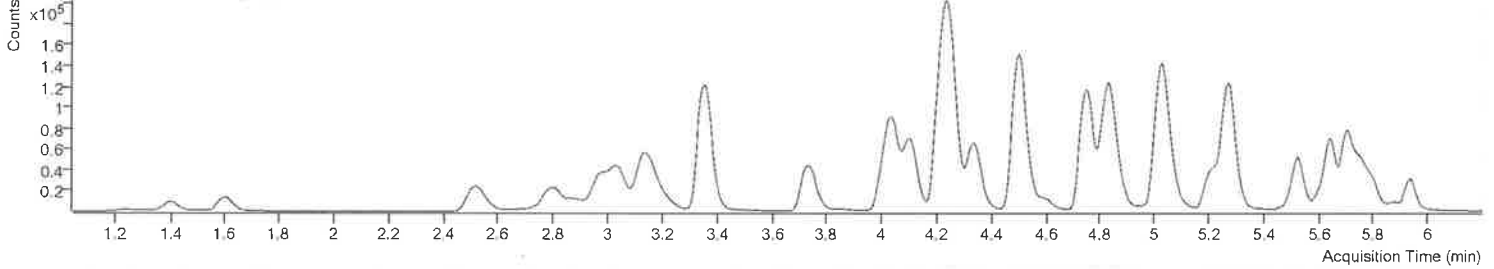
Batch results D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
 Calibration Last Update 6/17/2019 12:02:45 PM

Instrument Type Falco  
 Acq. Method MDQ P1 Combined 011619.m  
 Sample Position P1-A1  
 Injection Volume 1  
 Acq. Date-Time 6/14/2019 2:27:34 PM  
 Sample Info.

Data File p1 Cal 1-5ng.d  
 Sample p1 Cal 1-5ng  
 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	3.131	1412	261.92	73.0	249.42	86871	0.5073 ng/ml
7-aminoclonazepam	4.246	2949	211.07	80.9	174.87	23758	4.7793 ng/ml
a-hydroxyalprazolam	5.687	1348	27.39	76.7	132.78	15422	4.6877 ng/ml
alpha-PVP	4.352	19846	756.74	51.5	551.75	182376	4.9685 ng/ml
Alprazolam	5.765	9873	598.42	105.8	153.57	63162	4.9282 ng/ml
Amphetamine	3.048	24683	365.02	54.1	464.73	66072	4.7120 ng/ml
Benzoylcegonine	3.876	1068	45.22	5.7	21.01	4108	5.1391 ng/ml
Buprenorphine	5.740	891	57.53	16.7	16.43	69904	0.5015 ng/ml
Bupropion	4.768	50215	2780.28	58.9	550.99	368320	4.8063 ng/ml
Carisoprodol	5.713	8992	1421.58	57.5	69.79	94593	4.8639 ng/ml
Citalopram	5.214	11376	183.10	41.5	321.27	98910	4.8162 ng/ml
Clonazepam	5.593	892	25.97	36.8	332.88	2892	4.4545 ng/ml
Cocaine	4.252	20482	14960.55	43.9	13100.62	403722	4.7315 ng/ml
Codeine	2.570	2691	350.30	102.1	495.74	24146	4.5391 ng/ml
Cyclobenzaprine	5.617	4908	4605.02	8.9	111.27	40584	4.6861 ng/ml
Dextromethorphan	5.257	6106	1399.49	76.2	177.08	57338	4.9265 ng/ml
Dextrorphan	4.115	8245	586.60	203.5	854.81	191304	4.7970 ng/ml
Diazepam	5.950	6767	115.94	89.4	161.24	62583	4.9849 ng/ml

p1 Cal 1-5ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	7055	1638.67	68.3	2330.29	75808	4.7994 ng/ml
Diphenhydramine	5.284	30750	2145.29	34.9	2821.01	333440	4.8296 ng/ml
Doxylamine	4.521	53758	353.43	97.2	7401.98	469118	4.7724 ng/ml
Fentanyl	5.071	654	45.35	85.3	∞	67134	0.5026 ng/ml
Fluoxetine	5.703	4663	1982.50	9.6	123.67	35920	4.7509 ng/ml
Hydrocodone	3.011	7654	97.35	37.3	46.66	85152	4.9578 ng/ml
Hydromorphone	1.614	5899	576.93	75.8	389.50	42680	4.8792 ng/ml
Ketamine	4.028	17434	1464.46	35.4	1023.15	156344	4.9027 ng/ml
Lamotrigine	4.270	1824	64.79	76.7	60.43	156344	4.7499 ng/ml
Meprobamate	4.898	3359	271.64	27.0	185.91	31374	5.0975 ng/ml
Methadone	5.648	14234	2148.19	51.2	953.50	144365	4.9548 ng/ml
Methamphetamine	3.217	21798	264.51	41.7	54.70	173384	4.7901 ng/ml
Metoprolol	4.314	6086	2101.54	89.2	541.37	431933	4.7776 ng/ml
Mirtazapine	4.603	20498	2908.17	48.1	∞	182376	3.6319 ng/ml
Mitragynine	5.206	2634	∞	40.1	955.80	144365	5.0208 ng/ml
Morphine	1.253	1526	492.23	23.9	651.31	3821	4.9127 ng/ml
Norbuprenorphine	4.981	140	12.28	107.8	9.54 Low	8269	0.4123 ng/ml
Nordiazepam	5.890	1560	776.70	63.3	∞	10187	4.8064 ng/ml
Norfentanyl	4.076	2621	363.05	32.9	17.74	225307	0.4977 ng/ml
Norhydrocodone	3.059	1726	171.48	46.4	28.79	101100	5.3086 ng/ml
Noroxycodone	2.908	4461	27.87	48.6	36.96	32710	4.9102 ng/ml
O-desmethyl-tramadol	3.365	44509	2124.93	6.5	287.06	403755	4.9195 ng/ml
Oxazepam	5.745	1226	6.41 Low	61.2	10.26	7076	6.3726 ng/ml
Oxycodone	2.827	12414	∞	30.4	38.60	96649	4.8504 ng/ml
Oxymorphone	1.403	4009	119.38	46.8	103.60	30302	4.8976 ng/ml
Phentermine	3.773	8324	227.75	4.3	8.91 Low	167497	4.8146 ng/ml
Promethazine	5.533	8989	3192.46	28.0	109.25	76242	4.7366 ng/ml
Quetiapine	5.530	14127	2636.82	63.0	10037.14	42427	4.8332 ng/ml
Sertraline	5.772	2426	∞	96.0	204.87	20195	4.8792 ng/ml
Temazepam	5.806	5806	87.31	34.1	10.48	51185	5.0487 ng/ml
Tramadol	4.234	45773	1910.81	3.5	43.21	431933	4.8939 ng/ml
Trazodone	5.084	10049	12826.65	74.7	16208.32	85690	5.8061 ng/ml
Venlafaxine	5.032	35210	1444.89	37.3	419.35	341824	4.7072 ng/ml
Zolpidem	4.855	40544	2834.72	31.5	316.11	386433	4.8594 ng/ml

# AM #28 Multi-Drug Quant. Results

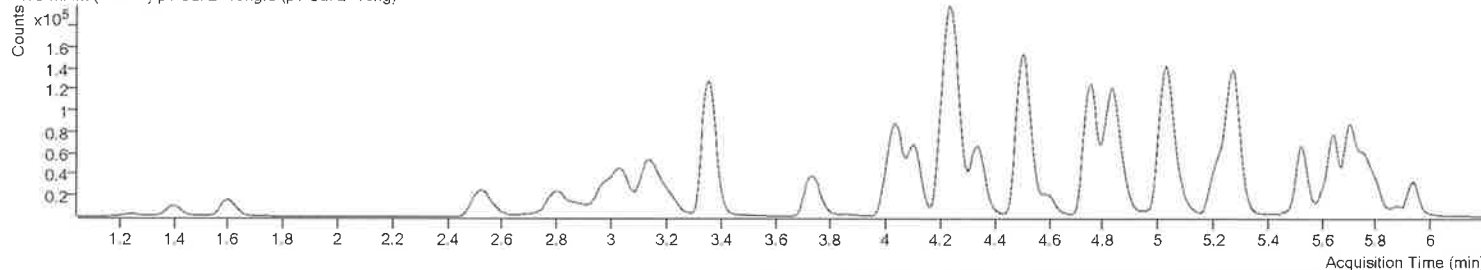


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

**Instrument Type** Falco  
**Acq. Method** Cal  
**Sample Position** MDQ P1 Combined 011619.m  
**Injection Volume** P1-B1  
**Acq. Date-Time** 1  
**Sample Info.** 6/14/2019 2:38:11 PM  
**Data File** p1 Cal 2- 10ng.d  
**Sample** p1 Cal 2- 10ng  
**Operator**  
**Comment**

## Sample Chromatogram

+ TIC MRM (\*\* -> \*) p1 Cal 2- 10ng.d (p1 Cal 2- 10ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.137	2642	385.90	77.5	627.93	81859	0.9925 ng/ml
7-aminoclonazepam	4.246	5920	849.29	80.0	696.20	23608	10.5053 ng/ml
a-hydroxyalprazolam	5.680	3203	143.30	65.9	77.04	14263	11.1957 ng/ml
alpha-PVP	4.352	35699	562.09	51.6	563.49	159327	10.1785 ng/ml
Alprazolam	5.765	19533	190.71	105.0	392.33	58695	10.3099 ng/ml
Amphetamine	3.048	37453	651.84	52.1	547.85	48889	10.6512 ng/ml
Benzoylcegonine	3.862	1459	441.01	7.1	69.29	3995	9.4563 ng/ml
Buprenorphine	5.740	1778	239.21	17.0	185.50	69448	1.0476 ng/ml
Bupropion	4.768	95750	209971.70	58.8	842.68	337834	10.1759 ng/ml
Carisoprodol	5.713	18744	3123.80	56.3	156.62	91210	10.6438 ng/ml
Citalopram	5.214	21990	584.75	41.4	857.32	93665	10.1549 ng/ml
Clonazepam	5.600	1597	148.29	39.8	88.48	2704	9.4482 ng/ml
Cocaine	4.252	37819	5231.91	44.4	178.22	354807	10.2147 ng/ml
Codeine	2.570	5250	171.33	101.1	722.11	22596	10.3030 ng/ml
Cyclobenzaprine	5.617	11189	2326.34	9.8	552.08	42179	10.4013 ng/ml
Dextromethorphan	5.250	12333	207.36	78.1	3935.65	55709	10.3627 ng/ml
Dextrorphan	4.108	14719	527.16	205.1	998.81	166055	10.2164 ng/ml
Diazepam	5.950	12241	282.64	92.3	413.95	56806	10.0153 ng/ml

p1 Cal 2- 10ng

Page 1 of 2

Generated at 12:03 PM on 6/17/2019

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	14052	7703.49	66.3	3148.41	72452	10.5335 ng/ml
Diphenhydramine	5.284	59897	2536.26	34.5	770.29	312239	10.1524 ng/ml
Doxylamine	4.521	96136	14010.65	98.8	6027.81	408650	10.1179 ng/ml
EDDP	5.250	8408	672.85	43.5	∞	44553	10.8775 ng/ml
Fentanyl	5.065	1359	684.53	77.2	441.99	67688	1.0182 ng/ml
Fluoxetine	5.703	10888	783.18	10.4	1084.36	40653	10.1436 ng/ml
Hydrocodone	3.011	13361	123.35	40.7	126.93	77615	9.9866 ng/ml
Hydromorphone	1.608	11825	200.83	76.2	353.29	40787	10.5163 ng/ml
Ketamine	4.028	31465	780.53	36.9	205.86	139503	10.3193 ng/ml
Lamotrigine	4.270	3431	188.03	77.3	234.50	139503	10.7338 ng/ml
Lorazepam	5.736	2086	15.80	56.3	5.44 Low	2704	4.9270 ng/ml
Meprobamate	4.898	6347	196.36	27.9	690.48	30441	9.8977 ng/ml
Methadone	5.648	28820	2011.22	49.9	∞	139318	10.2999 ng/ml
Methamphetamine	3.217	42488	383.34	40.4	245.12	160507	10.6227 ng/ml
Metoprolol	4.314	10683	1430.75	92.5	∞	385814	10.3107 ng/ml
Mirtazapine	4.603	38752	752.82	48.1	2804.30	159327	10.5478 ng/ml
Mitragynine	5.200	5993	17357.07	40.3	2657.03	139318	10.7056 ng/ml
Morphine	1.246	3142	3822.18	23.3	879.58	3874	10.2170 ng/ml
Norbuprenorphine	4.981	254	110.69	95.2	151.58	8026	1.0949 ng/ml
Nordiazepam	5.890	3190	408.22	63.5	98.65	9293	10.7203 ng/ml
Norfentanyl	4.076	4842	1653.60	38.0	66.36	203286	1.0207 ng/ml
Norhydrocodone	3.059	3208	104.04	39.1	62.01	91354	9.3153 ng/ml
Noroxycodone	2.908	8102	82.51	46.4	130.18	28749	10.3975 ng/ml
O-desmethyl-tramadol	3.365	87020	1917.07	6.6	521.35	383758	10.3032 ng/ml
Oxazepam	5.745	1896	10.24	69.4	3.01 Low	6732	10.4172 ng/ml
Oxycodone	2.827	23273	255.77	30.3	39.87	90229	10.5395 ng/ml
Oxymorphone	1.403	7735	206.43	48.5	203.13	29081	10.2540 ng/ml
Phentermine	3.773	14616	140.00	3.9	16.82	144097	10.4765 ng/ml
Promethazine	5.533	21184	7962.17	27.9	136.09	85091	10.2842 ng/ml
Quetiapine	5.530	28651	4926.95	58.3	1405.91	39695	10.4962 ng/ml
Sertraline	5.772	6068	303.43	88.8	326.18	23089	10.5388 ng/ml
Temazepam	5.806	10941	72.87	36.2	9.91 Low	49637	9.8378 ng/ml
Tramadol	4.234	79842	2987.14	3.5	87.99	385814	10.2505 ng/ml
Trazodone	5.084	20480	79531.52	78.7	∞	84531	10.5531 ng/ml
Venlafaxine	5.032	63016	4380.20	37.9	702.92	296881	10.1261 ng/ml
Zolpidem	4.855	75411	1653.08	31.3	2370.90	342003	10.4479 ng/ml



# AM #28 Multi-Drug Quant. Results

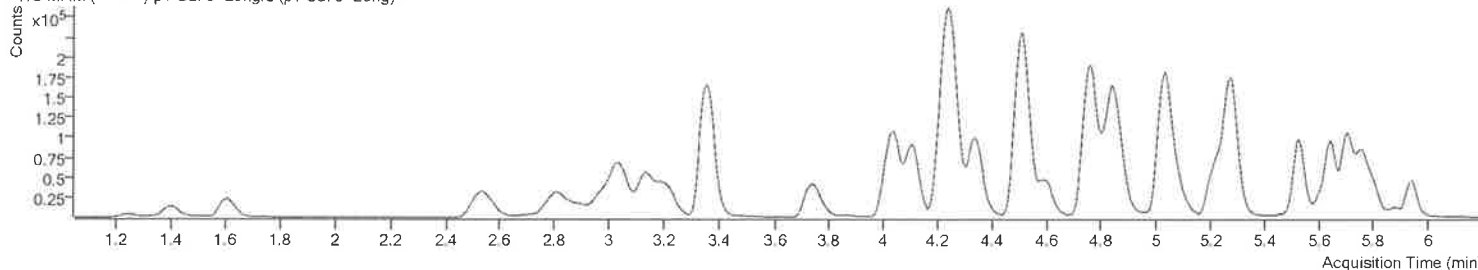


Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin 6/17/2019 12:02:45 PM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info  
 Falco Cal MDQ P1 Combined 011619.m P1-C1 1 6/14/2019 2:48:38 PM  
 Data File Sample Operator Comment  
 p1 Cal 3 -25ng.d p1 Cal 3 -25ng

## Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.137	6577	536.24	71.2	∞	83689	2.3947 ng/ml
7-aminoclonazepam	4.246	15636	1196.32	83.2	88.08	26046	26.3074 ng/ml
a-hydroxyalprazolam	5.687	7504	108.35	67.0	267.56	14217	25.5827 ng/ml
alpha-PVP	4.352	92876	2294.82	52.1	1440.58	170448	24.6835 ng/ml
Alprazolam	5.765	46853	∞	107.3	860.00	57783	24.8887 ng/ml
Amphetamine	3.048	86189	158.60	54.4	1484.49	47137	26.7280 ng/ml
Benzoylcegonine	3.876	2934	68.12	6.9	150.95	3923	25.1432 ng/ml
Buprenorphine	5.747	3778	234.73	15.8	380.73	66645	2.3683 ng/ml
Bupropion	4.775	246347	111923.76	59.3	3201.57	358726	24.8991 ng/ml
Carisoprodol	5.713	43007	1857.30	57.3	119.01	90913	24.6467 ng/ml
Citalopram	5.214	51722	2532.63	42.6	433.48	91038	25.0161 ng/ml
Clonazepam	5.600	4044	176.09	32.1	183.47	2750	25.0204 ng/ml
Cocaine	4.252	95796	76949.65	44.1	368.37	370042	25.1638 ng/ml
Codeine	2.570	12587	1681.23	101.7	1467.63	22972	25.3473 ng/ml
Cyclobenzaprine	5.617	24282	3496.28	9.1	707.30	38270	25.0197 ng/ml
Dextromethorphan	5.257	28120	573.54	78.3	1153.70	53614	24.7034 ng/ml
Dextrorphan	4.115	36867	2547.64	209.3	5027.42	174812	24.7652 ng/ml
Diazepam	5.950	31580	3537.28	88.6	1155.94	58975	25.0084 ng/ml

p1 Cal 3 -25ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	34079	25356.21	67.4	9125.52	72996	26.0455 ng/ml
Diphenhydramine	5.284	145244	525.49	33.4	3481.31	303697	25.4575 ng/ml
Doxylamine	4.521	248665	∞	97.6	348.41	431608	25.2195 ng/ml
EDDP	5.250	19247	388.19	43.6	7883.96	42784	24.1410 ng/ml
Fentanyl	5.071	2952	89.53	81.0	3677.61	62980	2.3556 ng/ml
Fluoxetine	5.703	22842	15087.47	9.6	2485.10	35473	24.8398 ng/ml
Hydrocodone	3.011	33971	111.60	39.7	110.03	79404	25.6163 ng/ml
Hydromorphone	1.614	28047	557.45	76.1	190.50	41848	24.6450 ng/ml
Ketamine	4.035	78718	5913.40	37.3	637.46	146713	25.0914 ng/ml
Lamotrigine	4.276	8385	351.21	80.6	440.32	146713	25.8092 ng/ml
Lorazepam	5.736	5394	64.72	56.3	15.81	2750	23.3534 ng/ml
Meprobamate	4.898	15251	2870.27	28.0	∞	30330	23.8231 ng/ml
Methadone	5.648	66248	734.85	50.8	∞	131244	25.0065 ng/ml
Methamphetamine	3.217	95326	761.58	41.8	338.56	153292	25.6104 ng/ml
Metoprolol	4.314	27465	22425.59	89.4	∞	402176	26.8293 ng/ml
Mirtazapine	4.603	95092	28714.86	47.6	861.66	170448	27.1822 ng/ml
Mitragynine	5.206	13790	14010.44	39.2	2056.50	131244	24.9502 ng/ml
Morphine	1.253	7542	7058.26	24.2	1426.40	3803	25.3160 ng/ml
Norbuprenorphine	4.987	493	76.50	105.0	130.36	7910	2.5063 ng/ml
Nordiazepam	5.890	7947	3084.93	57.9	233.74	9728	25.4619 ng/ml
Norfentanyl	4.076	11861	1471.96	36.1	427.23	206559	2.4623 ng/ml
Norhydrocodone	3.059	8652	∞	42.4	147.08	93749	22.0088 ng/ml
Noroxycodone	2.901	19847	94.62	49.5	82.21	30451	24.3594 ng/ml
O-desmethyl-tramadol	3.365	216063	2346.09	6.4	414.55	394098	25.1576 ng/ml
Oxazepam	5.745	4676	31.04	67.6	10.04	7076	24.5695 ng/ml
Oxycodone	2.827	57137	∞	31.2	117.58	95747	25.4250 ng/ml
Oxymorphone	1.403	19110	282.45	47.0	254.02	29458	25.5890 ng/ml
Phentermine	3.773	35148	1343.18	4.0	315.30	145075	25.8901 ng/ml
Promethazine	5.533	46446	10600.69	29.3	370.78	78149	24.9031 ng/ml
Quetiapine	5.530	70281	19530.69	58.7	889.82	39151	26.1295 ng/ml
Sertraline	5.779	12546	385.94	91.4	373.78	20104	24.8662 ng/ml
Temazepam	5.806	27471	507.09	27.6	26.28	48662	25.2397 ng/ml
Tramadol	4.234	200865	2644.32	3.5	442.18	402176	25.7679 ng/ml
Trazodone	5.091	47729	429.36	78.6	261.80	79837	24.0548 ng/ml
Venlafaxine	5.032	161809	2902.45	38.0	780.21	314422	25.1233 ng/ml
Zolpidem	4.855	193143	8580.15	30.8	5170.32	364639	25.3974 ng/ml

# AM #28 Multi-Drug Quant. Results

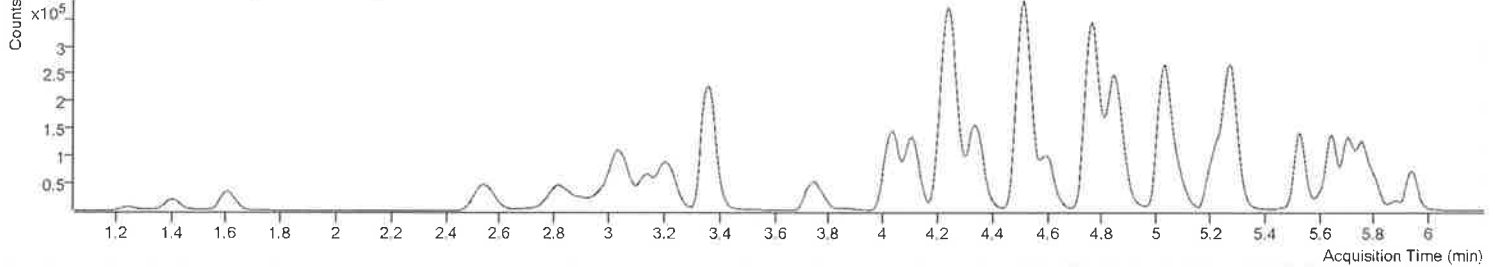


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

**Instrument** Falco **Data File** p1 Cal 4-50ng.d  
**Type** Cal **Sample** p1 Cal 4-50ng  
**Acq. Method** MDQ P1 Combined 011619.m **Operator**  
**Sample Position** P1-D1 **Comment**  
**Injection Volume** 1  
**Acq. Date-Time** 6/14/2019 2:59:04 PM  
**Sample Info.**

## 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	3.137	13265	1312.20	71.5	685.71	83143	4.8458 ng/ml
7-aminoclonazepam	4.253	36836	5955.03	80.5	1232.51	30936	52.9970 ng/ml
a-hydroxyalprazolam	5.687	15292	776.93	63.3	∞	14629	50.1384 ng/ml
alpha-PVP	4.352	199547	∞	51.1	8894.09	181754	49.6851 ng/ml
Alprazolam	5.765	97252	2200.90	105.8	835.67	61019	48.7648 ng/ml
Amphetamine	3.048	181713	1863.16	52.5	1843.77	49628	54.4657 ng/ml
Benzoylcegonine	3.876	5446	1187.63	7.2	114.51	4111	48.7926 ng/ml
Buprenorphine	5.740	8028	274.55	15.6	195.68	70358	4.8067 ng/ml
Bupropion	4.775	589199	83442.44	58.9	4542.98	428268	50.0538 ng/ml
Carisoprodol	5.713	87548	12692.64	55.7	393.14	94316	48.4694 ng/ml
Citalopram	5.214	111386	1440.78	41.5	1725.01	100297	49.1975 ng/ml
Clonazepam	5.600	8121	847.62	33.8	12383.05	2741	51.4242 ng/ml
Cocaine	4.259	196318	1766090.56	43.6	1732.77	383067	50.0594 ng/ml
Codeine	2.577	24668	1019.86	101.8	542.48	22950	50.4666 ng/ml
Cyclobenzaprine	5.617	34515	39113.08	9.7	129.86	27597	49.4147 ng/ml
Dextromethorphan	5.257	57852	577.22	78.2	684.63	55606	49.1127 ng/ml
Dextrorphan	4.115	80047	237672.04	206.4	3434.62	188377	50.2361 ng/ml
Diazepam	5.950	70418	1841.23	86.4	934.69	64804	50.8335 ng/ml

p1 Cal 4-50ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	68457	12683.31	66.7	14398.65	74489	51.7457 ng/ml
Diphenhydramine	5.284	310702	1791.21	34.0	292.47	334234	49.5754 ng/ml
Doxylamine	4.521	530254	23589.14	98.0	36735.25	467223	49.9739 ng/ml
EDDP	5.250	48319	1524.37	42.2	571.22	53982	46.7536 ng/ml
Fentanyl	5.071	5267	717.88	75.9	3044.11	54801	4.8123 ng/ml
Fluoxetine	5.703	26262	4704.72	9.7	4057.92	20349	50.1089 ng/ml
Hydrocodone	3.011	69929	∞	39.3	163.59	82247	51.4375 ng/ml
Hydromorphone	1.614	55474	∞	75.8	293.38	40615	50.4911 ng/ml
Ketamine	4.035	163727	21955.89	37.3	1486.46	151678	50.8783 ng/ml
Lamotrigine	4.276	17829	922.01	80.3	1900.71	151678	53.7695 ng/ml
Lorazepam	5.736	10801	∞	58.1	19.28	2741	53.9890 ng/ml
Meprobamate	4.898	31459	∞	28.0	482.29	31250	47.6595 ng/ml
Methadone	5.648	136141	1858.66	51.4	2351.06	139969	48.1043 ng/ml
Methamphetamine	3.217	233238	3164.21	41.2	1074.65	185521	52.2725 ng/ml
Metoprolol	4.314	58334	22673.40	92.7	∞	418429	55.7647 ng/ml
Mirtazapine	4.603	213239	42710.23	47.3	26055.40	181754	59.7108 ng/ml
Mitragynine	5.206	27009	43716.01	39.9	14510.94	139969	45.1261 ng/ml
Morphine	1.253	14809	∞	23.5	1713.80	3662	51.8695 ng/ml
Norbuprenorphine	4.987	1038	45.48	93.1	744.35	8672	5.1549 ng/ml
Nordiazepam	5.890	16896	576.52	57.6	290.98	10706	49.1519 ng/ml
Norfentanyl	4.076	25099	1765.44	36.9	252.87	221354	4.8634 ng/ml
Norhydrocodone	3.066	20294	1128.82	43.7	131.69	102283	45.5715 ng/ml
Noroxycodone	2.908	41108	175.23	48.4	157.03	30309	50.9469 ng/ml
O-desmethyl-tramadol	3.365	432206	15954.52	6.4	1430.73	401235	49.5974 ng/ml
Oxazepam	5.745	9150	130.60	68.5	16.25	6917	49.2756 ng/ml
Oxycodone	2.827	111930	∞	31.8	199.85	97693	49.5439 ng/ml
Oxymorphone	1.403	37980	226.93	46.9	270.88	29481	51.2181 ng/ml
Phentermine	3.773	77984	2557.76	4.0	102.31	161426	52.2458 ng/ml
Promethazine	5.533	66117	5558.72	28.3	2829.34	55994	49.7270 ng/ml
Quetiapine	5.530	149780	18430.56	58.9	2116.08	43797	49.7938 ng/ml
Sertraline	5.772	12058	2048.85	88.0	430.03	9759	49.1219 ng/ml
Temazepam	5.806	56413	337.33	30.7	60.88	52142	48.3992 ng/ml
Tramadol	4.234	409179	3497.41	3.5	905.25	418429	51.1500 ng/ml
Trazodone	5.091	89159	214333.55	79.1	1075.33	76252	45.7542 ng/ml
Venlafaxine	5.032	360869	19915.00	38.7	1493.60	356532	49.8010 ng/ml
Zolpidem	4.855	412166	35704.55	31.4	2390.53	390584	50.8098 ng/ml

# AM #28 Multi-Drug Quant. Results

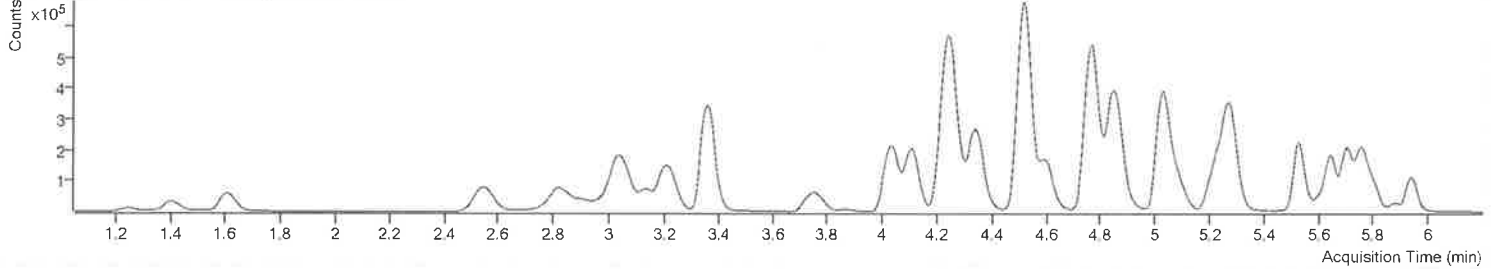


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng
<b>Acq. Method</b>	MDQ P1 Combined 011619.m	<b>Operator</b>	
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	1		
<b>Acq. Date-Time</b>	6/14/2019 3:09:30 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p1 Cal 5-100ng.d (p1 Cal 5-100ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	27025	∞	70.6	3517.86	81477	10.0581 ng/ml
7-aminoclonazepam	4.253	73144	3174.18	81.1	597.97	30734	106.7553 ng/ml
a-hydroxyalprazolam	5.680	29673	893.92	64.6	521.95	14565	97.2028 ng/ml
alpha-PVP	4.352	418218	40422.62	51.3	7812.13	196827	101.2537 ng/ml
Alprazolam	5.765	190700	1553.58	103.8	1337.23	57397	101.4824 ng/ml
Amphetamine	3.048	331958	3180.59	53.7	4120.69	46008	108.2416 ng/ml
Benzoylcegonine	3.876	10954	220.12	7.5	293.10	4235	100.5443 ng/ml
Buprenorphine	5.740	13162	318.77	16.3	1791.58	54500	10.2189 ng/ml
Bupropion	4.775	1091716	178586.44	59.2	58253.76	393585	101.0901 ng/ml
Carisoprodol	5.713	172355	∞	55.7	366.81	88203	102.1568 ng/ml
Citalopram	5.214	175060	2280.52	41.5	620.71	75493	103.0642 ng/ml
Clonazepam	5.600	16446	1293.12	33.4	1525.76	2761	104.3981 ng/ml
Cocaine	4.259	401380	∞	43.5	84869.29	382281	102.8193 ng/ml
Codeine	2.570	48802	362.49	101.3	787.09	22117	104.4139 ng/ml
Cyclobenzaprine	5.617	77875	602.19	9.9	1848.27	30536	100.8697 ng/ml
Dextromethorphan	5.257	95704	8179.25	79.6	73166.79	44670	101.2547 ng/ml
Dextrorphan	4.115	157364	3554.47	205.8	17766.96	182177	102.4628 ng/ml
Diazepam	5.950	132398	1041.24	88.1	1359.12	61230	101.2347 ng/ml

p1 Cal 5-100ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	135461	41162.39	66.8	17305.87	72920	105.0978 ng/ml
Diphenhydramine	5.284	491618	1313.53	34.5	1168.91	260676	100.6783 ng/ml
Doxylamine	4.521	1097035	1088.69	97.8	93097.44	475785	101.8438 ng/ml
EDDP	5.250	166713	12094.24	41.4	∞	85180	100.6946 ng/ml
Fentanyl	5.078	10058	743.79	77.5	2417.71	49736	10.1078 ng/ml
Fluoxetine	5.710	80700	4168.96	9.4	∞	30352	103.5735 ng/ml
Hydrocodone	3.011	139123	∞	40.8	∞	81483	103.8354 ng/ml
Hydromorphone	1.614	111496	∞	75.4	532.98	41088	100.5651 ng/ml
Ketamine	4.035	334396	27900.06	37.5	3224.63	154020	102.7324 ng/ml
Lamotrigine	4.276	34646	829.62	78.9	785.89	154020	103.4976 ng/ml
Lorazepam	5.736	20773	304.33	56.7	52.04	2761	109.4499 ng/ml
Meprobamate	4.898	63276	265.58	28.3	434.80	30224	99.0833 ng/ml
Methadone	5.648	229220	2182.05	51.3	1144.47	111547	101.5323 ng/ml
Methamphetamine	3.217	430989	2316.21	41.2	1829.92	171221	105.1456 ng/ml
Metoprolol	4.314	117237	23944.73	91.4	∞	427186	110.7011 ng/ml
Mirtazapine	4.603	350753	29952.45	47.6	50461.57	186827	96.9366 ng/ml
Mitragynine	5.206	45610	3226.44	38.4	∞	111547	94.6906 ng/ml
Morphine	1.253	29122	1618.48	23.8	5047.51	3676	101.8214 ng/ml
Norbuprenorphine	4.981	1562	∞	107.8	680.71	6901	10.0682 ng/ml
Nordiazepam	5.890	32695	1416.65	58.6	695.22	9930	102.5016 ng/ml
Norfentanyl	4.076	54500	6322.58	36.4	664.14	234384	9.9745 ng/ml
Norhydrocodone	3.066	49242	705.43	43.1	166.14	107362	103.3525 ng/ml
Noroxycodone	2.908	83309	∞	48.4	∞	30278	103.5976 ng/ml
O-desmethyl-tramadol	3.365	865112	40487.93	6.5	3686.49	392340	101.7081 ng/ml
Oxazepam	5.745	18438	242.24	67.1	51.65	6711	102.4504 ng/ml
Oxycodone	2.827	225683	200.77	31.8	∞	96804	101.6321 ng/ml
Oxymorphone	1.403	71857	493.77	48.2	234.40	28157	101.8542 ng/ml
Phentermine	3.773	144967	10637.49	3.8	244.39	150031	105.1220 ng/ml
Promethazine	5.533	151675	3077.10	28.6	2691.84	63124	101.4532 ng/ml
Quetiapine	5.530	243133	8189.82	60.5	3164.49	35219	100.5320 ng/ml
Sertraline	5.779	40907	821.35	89.6	645.37	16329	99.4771 ng/ml
Temazepam	5.806	109744	387.61	30.7	193.18	49692	98.8245 ng/ml
Tramadol	4.234	832651	45133.92	3.6	1002.56	427186	102.6760 ng/ml
Trazodone	5.091	164021	4013.11	78.8	364249.94	66341	95.2385 ng/ml
Venlafaxine	5.032	712778	23273.76	37.8	4585.43	343961	102.3818 ng/ml
Zolpidem	4.861	835366	3039.18	31.4	5880.39	391037	103.0795 ng/ml

# AM #28 Multi-Drug Quant. Results

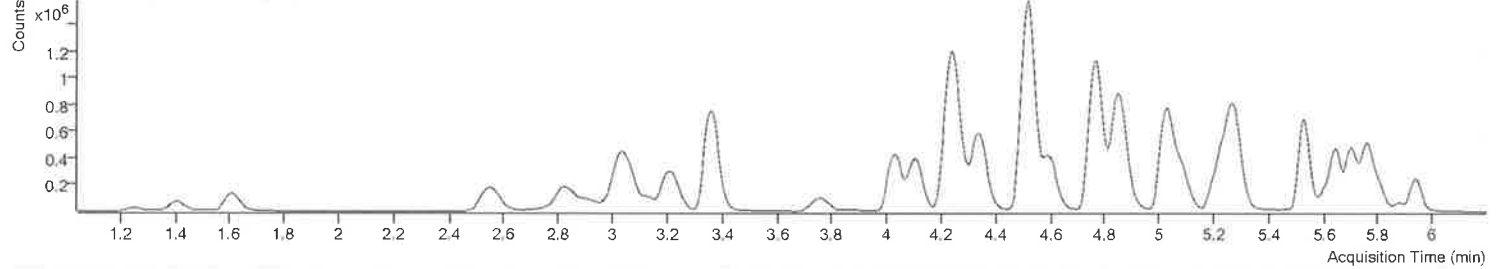


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

**Instrument Type** Falco  
**Acq. Method** Cal  
**Sample Position** MDQ P1 Combined 011619.m  
**Injection Volume** P1-F1  
**Acq. Date-Time** 1  
**Sample Info.** 6/14/2019 3:19:57 PM  
**Data File** p1 Cal 6-250ng.d  
**Sample** p1 Cal 6-250ng  
**Operator**  
**Comment**

## Sample Chromatogram

+ TIC MRM (\*\* -> \*\*) p1 Cal 6-250ng.d (p1 Cal 6-250ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	71172	3829.64	71.6	1030.21	86619	24.8937 ng/ml
7-aminoclonazepam	4.246	212133	15157.01	80.7	12574.93	37301	256.2590 ng/ml
a-hydroxyalprazolam	5.680	74755	625.74	64.4	1021.05	14720	241.4964 ng/ml
alpha-PVP	4.352	1060737	69599.77	51.3	24656.55	192040	249.7697 ng/ml
Alprazolam	5.765	455489	10721.03	104.1	4397.49	55699	249.5467 ng/ml
Amphetamine	3.048	917431	5992.12	54.8	31645.04	55503	249.1861 ng/ml
Benzoylcegonine	3.869	26646	9031.14	7.1	5310.80	4228	252.8997 ng/ml
Buprenorphine	5.740	32762	1001.37	16.5	775.14	54962	25.2793 ng/ml
Bupropion	4.775	2529473	313440.40	58.8	58875.00	363163	254.1019 ng/ml
Carisoprodol	5.713	388833	750.08	55.3	829.12	82118	247.7026 ng/ml
Citalopram	5.214	439440	1136.78	42.4	6785.67	77576	252.2153 ng/ml
Clonazepam	5.600	46224	27712.35	34.0	∞	2829	288.1140 ng/ml
Cocaine	4.252	1003394	269075.00	43.9	98323.59	392678	250.5845 ng/ml
Codeine	2.570	119389	1693.27	103.6	3008.08	22689	250.0678 ng/ml
Cyclobenzaprine	5.617	328265	23450.48	9.5	2062.27	50467	257.4260 ng/ml
Dextromethorphan	5.257	268569	46509.32	78.4	13402.39	50266	252.6800 ng/ml
Dextropropion	4.115	363804	4288.93	207.1	51278.60	172484	250.6690 ng/ml
Diazepam	5.950	331289	6056.23	88.2	6279.83	61840	250.9316 ng/ml

p1 Cal 6-250ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	340770	52872.00	67.7	73106.14	77580	249.1737 ng/ml
Diphenhydramine	5.284	1292732	29883.99	33.7	11327.82	274848	251.2348 ng/ml
Doxylamine	4.521	2771996	256694.22	97.5	116244.46	487166	251.7741 ng/ml
EDDP	5.250	561883	11842.98	41.9	4730.74	114976	249.4917 ng/ml
Fentanyl	5.071	35481	307.21	77.2	39592.13	70513	25.1260 ng/ml
Fluoxetine	5.703	344162	22431.76	9.3	35626.77	53358	251.7224 ng/ml
Hydrocodone	3.011	377856	276.78	39.6	∞	91784	251.1219 ng/ml
Hydromorphone	1.614	281304	∞	76.1	1704.69	41362	252.4349 ng/ml
Ketamine	4.035	885638	∞	37.3	1896.05	167352	250.9743 ng/ml
Lamotrigine	4.276	83680	∞	80.8	1711.29	167352	230.8560 ng/ml
Lorazepam	5.736	51546	532.21	55.4	73.51	2829	275.0175 ng/ml
Meprobamate	4.898	152331	7949.45	28.6	2069.80	29658	243.0392 ng/ml
Methadone	5.648	696044	2780.97	51.5	3947.40	139211	246.9175 ng/ml
Methamphetamine	3.217	885988	8735.92	41.5	1840.04	151208	245.4024 ng/ml
Metoprolol	4.314	273139	76510.37	91.1	∞	476307	232.3552 ng/ml
Mirtazapine	4.603	887491	60199.87	47.4	57968.03	192040	241.9906 ng/ml
Mitragynine	5.206	149378	2011.74	38.6	∞	139211	247.1429 ng/ml
Morphine	1.253	67979	2002.01	23.6	2382.92	3502	249.8496 ng/ml
Norbuprenorphine	4.981	4340	1735.45	94.1	2988.96	7554	26.1252 ng/ml
Nordiazepam	5.890	84049	5889.63	58.1	4124.13	10534	248.3507 ng/ml
Norfentanyl	4.076	138718	5518.13	36.5	1707.09	236608	25.1514 ng/ml
Norhydrocodone	3.066	156686	3159.10	43.4	1943.43	118392	295.3612 ng/ml
Noroxycodone	2.908	217897	195.64	47.8	219.11	32986	249.0478 ng/ml
O-desmethyl-tramadol	3.365	2301671	143736.07	6.5	6259.86	429816	247.2540 ng/ml
Oxazepam	5.745	41878	306.31	73.3	1586.22	6173	253.0792 ng/ml
Oxycodone	2.827	615535	242.73	32.3	∞	108281	248.9539 ng/ml
Oxymorphone	1.403	187105	993.17	46.9	∞	29416	254.4722 ng/ml
Phentermine	3.773	315205	6815.81	3.9	374.78	137564	250.1397 ng/ml
Promethazine	5.533	632111	∞	28.6	419.23	104728	255.2314 ng/ml
Quetiapine	5.530	715784	41445.88	60.3	38836.13	40867	255.0864 ng/ml
Sertraline	5.772	170240	17131.38	90.2	4926.97	26205	257.7755 ng/ml
Temazepam	5.806	280261	1080.86	30.5	178.43	50086	250.4379 ng/ml
Tramadol	4.234	2154064	147708.34	3.6	3209.61	476307	239.1904 ng/ml
Trazodone	5.091	549297	1392.61	78.7	155291.59	87843	238.8066 ng/ml
Venlafaxine	5.032	1712571	70058.06	38.5	73126.24	331624	255.7404 ng/ml
Zolpidem	4.855	2173125	108767.45	31.6	174556.59	421679	248.9672 ng/ml



# AM #28 Multi-Drug Quant. Results

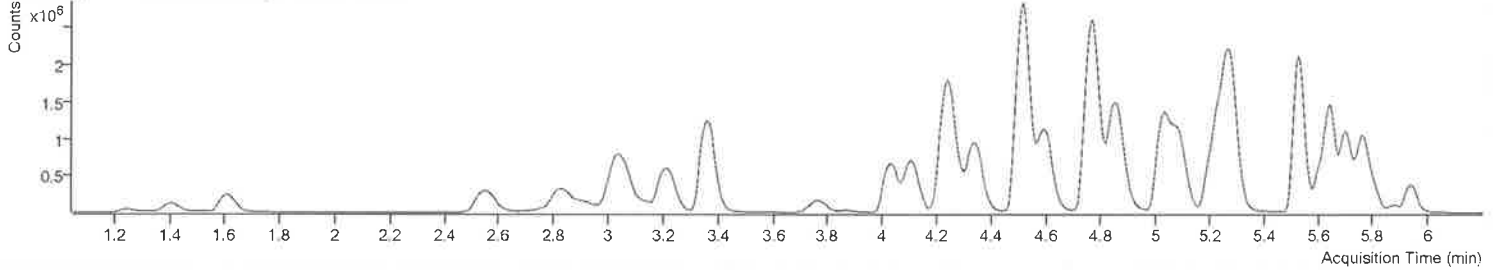


**Batch results** D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
**Calibration Last Update** 6/17/2019 12:02:45 PM

**Instrument Type** Falco  
**Acq. Method** Cal  
**Sample Position** MDQ P1 Combined 011619.m  
**Injection Volume** P1-G1  
**Acq. Date-Time** 1  
**Sample Info.** 6/14/2019 3:30:23 PM  
**Data File** p1 Cal 7-500ng.d  
**Sample** p1 Cal 7-500ng  
**Operator**  
**Comment**

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) p1 Cal 7-500ng.d (p1 Cal 7-500ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	128215	9054.18	71.7	1452.37	76266	50.9171 ng/ml
7-aminoclonazepam	4.246	335393	15776.24	83.0	5644.25	32926	459.6520 ng/ml
a-hydroxyalprazolam	5.680	133404	694.37	63.8	906.46	12856	492.8623 ng/ml
alpha-PVP	4.352	1839643	123555.22	51.8	71535.66	167757	495.8305 ng/ml
Alprazolam	5.765	791377	3850.86	103.5	∞	48337	499.4377 ng/ml
Amphetamine	3.048	1678884	29383.69	58.5	32208.60	56874	445.7554 ng/ml
Benzoyllecgonine	3.869	55386	6257.60	7.7	332.16	4501	499.0341 ng/ml
Buprenorphine	5.740	93273	907.58	17.1	333.87	77652	50.9809 ng/ml
Bupropion	4.773	6073923	411749.32	59.1	58381.21	441614	501.9384 ng/ml
Carisoprodol	5.713	625653	73155.86	55.5	676.12	64711	505.8973 ng/ml
Citalopram	5.214	1289502	∞	42.1	5895.46	114524	501.6395 ng/ml
Clonazepam	5.593	85828	470.32	35.6	25334.07	3148	481.3992 ng/ml
Cocaine	4.259	1694817	151999.67	43.8	359193.58	334219	497.5364 ng/ml
Codeine	2.577	211948	2975.67	102.5	7460.77	20201	499.3796 ng/ml
Cyclobenzaprine	5.617	1291013	893159.66	10.0	238.10	101602	502.9812 ng/ml
Dextromethorphan	5.257	841504	53968.41	78.9	998.48	80331	495.5141 ng/ml
Dextrorphan	4.115	710390	48848.02	207.7	161903.76	169143	499.4736 ng/ml
Diazepam	5.950	555854	624.86	88.0	5973.35	52144	499.4001 ng/ml

p1 Cal 7-500ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	612986	35074.98	66.4	318206.66	72454	480.3877 ng/ml
Diphenhydramine	5.284	3841177	273072.76	34.2	28608.20	411062	499.2349 ng/ml
Doxylamine	4.521	5188788	181764.88	97.5	250087.58	456145	503.6409 ng/ml
EDDP	5.250	1651287	121398.66	42.8	26754.89	166965	503.5844 ng/ml
Fentanyl	5.071	146064	3784.51	78.7	∞	142772	51.0687 ng/ml
Fluoxetine	5.703	1441429	95657.89	9.6	50670.74	112086	502.1992 ng/ml
Hydrocodone	3.011	662508	∞	41.8	∞	85463	473.3447 ng/ml
Hydromorphone	1.614	535993	3380.93	75.4	∞	40416	492.4791 ng/ml
Ketamine	4.035	1524766	203098.63	38.1	7765.52	148026	488.8765 ng/ml
Lamotrigine	4.283	145756	9305.12	79.2	11071.84	148026	455.2431 ng/ml
Lorazepam	5.736	93172	1912.98	55.8	∞	3148	451.0905 ng/ml
Meprobamate	4.898	292547	44698.20	28.0	12085.93	27097	510.8248 ng/ml
Methadone	5.648	2296411	110767.71	51.0	171184.81	222099	510.5193 ng/ml
Methamphetamine	3.217	1831803	22139.17	40.7	7666.32	159256	482.2025 ng/ml
Metoprolol	4.314	447317	44266.85	91.3	∞	371273	489.2298 ng/ml
Mirtazapine	4.603	2584970	135847.47	47.4	691026.40	167757	812.2544 ng/ml
Mitragynine	5.206	557386	22202.10	38.9	297834.99	222099	576.9074 ng/ml
Morphine	1.253	122990	4680.16	23.8	685.03	3303	479.5543 ng/ml
Norbuprenorphine	4.981	14611	∞	99.6	9725.07	13146	50.8788 ng/ml
Nordiazepam	5.890	149880	4681.38	57.5	7193.96	9618	484.9914 ng/ml
Norfentanyl	4.076	267511	31600.48	36.7	1286.73	232799	49.2981 ng/ml
Norhydrocodone	3.066	305641	1987.86	42.4	2318.14	106480	638.8256 ng/ml
Noroxycodone	2.908	387145	∞	49.1	6628.59	30267	482.4541 ng/ml
O-desmethyl-tramadol	3.365	4214476	61961.66	6.5	∞	392952	495.3820 ng/ml
Oxazepam	5.745	78912	2408.72	66.4	120.81	5898	499.2633 ng/ml
Oxycodone	2.827	1161413	∞	31.9	∞	103188	493.6993 ng/ml
Oxymorphone	1.403	334609	2314.28	47.3	1094.02	27907	480.0428 ng/ml
Phentermine	3.773	600913	6526.48	3.9	608.89	137021	479.3310 ng/ml
Promethazine	5.533	2487016	158314.17	28.9	33583.94	208571	504.4738 ng/ml
Quetiapine	5.530	1944624	127421.70	59.9	93148.73	60807	465.7753 ng/ml
Sertraline	5.779	631216	22040.30	90.4	14253.60	51632	484.9908 ng/ml
Temazepam	5.806	512266	10609.07	29.8	492.87	45829	500.3020 ng/ml
Tramadol	4.234	3491477	125088.53	3.6	7315.57	371273	498.1661 ng/ml
Trazodone	5.091	1951696	231186.42	76.9	138094.70	155228	478.7929 ng/ml
Venlafaxine	5.032	3210535	111526.19	38.5	2755.79	314392	506.1032 ng/ml
Zolpidem	4.855	3944207	302209.97	31.3	40259.08	393406	484.5508 ng/ml

# AM #28 Multi-Drug Quant. Results



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

D:\MassHunter\Data\2019\AM 28\061419 MDQ P1 P2 SP\QuantResults\MDQ P1.batch.bin  
 6/17/2019 12:02:45 PM

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

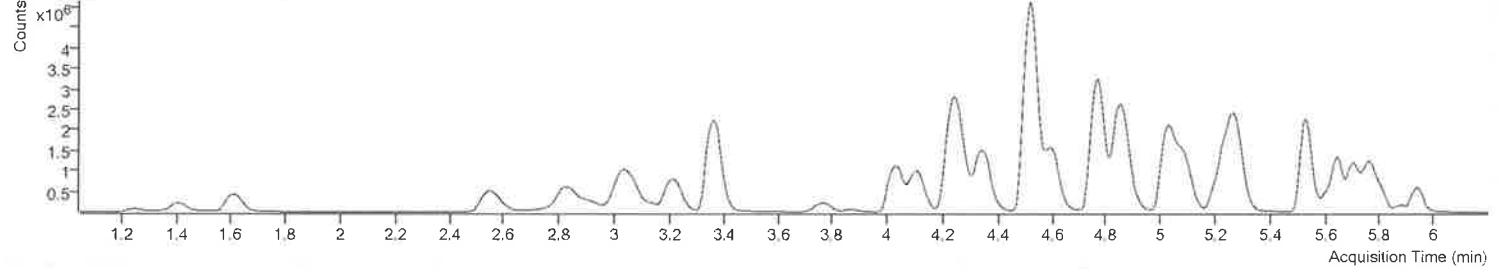
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 Cal  
 MDQ P1 Combined 011619.m  
 P1-H1  
 1  
 6/14/2019 3:40:49 PM

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

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	3.137	247547	3810.51	72.4	1688.36	71670	104.5943 ng/ml
7-aminoclonazepam	4.239	447948	636.47	80.4	9660.39	23268	869.4795 ng/ml
a-hydroxyalprazolam	5.680	262630	667.50	64.3	2486.60	12554	993.0819 ng/ml
alpha-PVP	4.352	3121113	235659.97	51.5	43144.59	140532	1004.1418 ng/ml
Alprazolam	5.765	1301513	2856.13	105.0	8167.51	39672	1000.6416 ng/ml
Amphetamine	3.055	2076217	27773.80	55.1	52728.72	36350	863.3766 ng/ml
Benzoyllecgonine	3.876	116833	26702.71	7.5	5091.33	4627	1029.8588 ng/ml
Buprenorphine	5.740	61973	7080.98	16.8	∞	26633	98.7968 ng/ml
Bupropion	4.775	7722830	332354.17	58.8	323417.83	283892	992.9345 ng/ml
Carisoprodol	5.713	1147764	3592.46	55.1	8188.07	61075	983.4270 ng/ml
Citalopram	5.214	1290375	36348.08	42.9	6146.49	57859	993.8963 ng/ml
Clonazepam	5.600	183061	26120.81	34.2	88103.41	3316	975.7414 ng/ml
Cocaine	4.259	2995673	144871.88	43.4	123890.94	294319	998.8904 ng/ml
Codeine	2.583	378339	3777.35	99.1	4006.94	18103	995.4827 ng/ml
Cyclobenzaprine	5.617	940947	2758.60	10.0	16496.92	37657	989.2012 ng/ml
Dextromethorphan	5.257	770104	84969.55	79.2	35954.91	36661	993.7522 ng/ml
Dextropropriphan	4.115	1050934	5070.76	206.1	190864.98	125351	997.3799 ng/ml
Diazepam	5.950	951333	20077.87	88.0	∞	45968	969.6193 ng/ml

p1 Cal 8-1000ng

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.540	1116898	98487.86	66.9	124477.49	70374	901.5973 ng/ml
Diphenhydramine	5.291	3899368	81750.79	34.4	2530.07	208588	998.8372 ng/ml
Doxylamine	4.522	9759212	185167.76	95.2	148694.68	435414	992.6575 ng/ml
EDDP	5.250	2623873	94761.16	42.8	64507.27	133506	999.4572 ng/ml
Fentanyl	5.078	105698	2203.37	78.8	∞	50984	103.4701 ng/ml
Fluoxetine	5.703	939356	63927.87	9.4	10602.71	36966	992.6617 ng/ml
Hydrocodone	3.011	1246763	∞	40.8	∞	78784	966.8545 ng/ml
Hydromorphone	1.614	1004519	2399.13	75.6	602.96	38208	976.5652 ng/ml
Ketamine	4.035	2824599	13738.23	37.9	4286.89	140088	957.3318 ng/ml
Lamotrigine	4.283	212695	9472.36	80.1	12179.93	140088	702.3128 ng/ml
Lorazepam	5.736	192042	3996.10	56.5	∞	3316	889.3344 ng/ml
Meprobamate	4.905	524799	46131.19	28.3	1560.18	22573	1099.9628 ng/ml
Methadone	5.648	2166854	239474.37	50.4	∞	107771	992.6654 ng/ml
Methamphetamine	3.217	2481601	23205.39	41.5	14355.46	114082	912.3647 ng/ml
Metoprolol	4.314	676595	112568.86	91.7	∞	339427	810.0430 ng/ml
Mirtazapine	4.603	3493502	217407.38	47.5	160786.69	140532	1311.8203 ng/ml
Mitragynine	5.206	438801	45339.99	38.7	741.65	107771	935.4564 ng/ml
Morphine	1.253	215993	14335.08	23.6	3177.53	2871	969.0001 ng/ml
Norbuprenorphine	4.981	12921	862.11	98.6	5758.00	6071	97.7594 ng/ml
Nordiazepam	5.890	273246	1419.32	58.7	∞	8706	976.7735 ng/ml
Norfentanyl	4.076	503310	46173.66	36.5	3716.33	208246	103.6895 ng/ml
Norhydrocodone	3.066	562437	∞	42.4	∞	92907	1345.6150 ng/ml
Noroxycodone	2.908	709091	∞	47.7	162.91	27083	987.8133 ng/ml
O-desmethyl-tramadol	3.372	8079230	120719.28	6.6	1941.70	376747	990.6786 ng/ml
Oxazepam	5.738	158282	1614.14	67.7	161.40	5928	996.3620 ng/ml
Oxycodone	2.827	2283026	∞	31.0	∞	103475	968.5456 ng/ml
Oxymorphone	1.410	649623	1810.28	46.9	∞	27370	950.6473 ng/ml
Phentermine	3.773	836490	∞	3.9	666.29	101818	898.4800 ng/ml
Promethazine	5.533	1786575	7274.67	29.1	21489.77	76430	989.1907 ng/ml
Quetiapine	5.530	2928947	207946.70	59.7	69295.25	43289	985.4558 ng/ml
Sertraline	5.779	369474	6054.25	89.2	6996.55	14695	997.3395 ng/ml
Temazepam	5.813	958382	3239.31	29.3	707.34	41315	1038.2979 ng/ml
Tramadol	4.228	6163498	∞	3.6	8487.01	339427	962.5977 ng/ml
Trazodone	5.091	2579441	119155.08	79.0	2131.82	94215	1040.9938 ng/ml
Venlafaxine	5.032	5463531	142018.47	39.1	7610.25	274720	986.0170 ng/ml
Zolpidem	4.861	7430128	275505.23	31.0	∞	375918	955.4721 ng/ml