













**REVIEWED**

By Anne Nord at 4:41 pm, Feb 13, 2020

2/11/2020

TS

**Worklist: 3989**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0174	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0218	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0326	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0351	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3698	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3925	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0053	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0079	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0115	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0283	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0303	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0304	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0305	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0333	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0334	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0335	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0342	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

TS

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

---

---

**Request for Departure from an Analytical Method**

---

Date of Request  
**01/13/2020**

Forensic Scientist  
Celena Shrum

Analytical Methods  
Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBBox extraction plates are as follows:

- \*MDS (batch IDP-107-190725)- Expiration is 1/25/2020
- \*THC (batch IDP-108-190716)- Expiration is 1/16/2020
- \*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
- \*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

*Celena Shrum*

Date: 01/13/2020  
Celena Shrum  
Toxicology Discipline Lead

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

TS

Extraction Date: 02/12/2020  
Plate lot#: Item #:IDP-111 Lot:190729

Analyst: Tamara Salazar  
Plate Expiration: 01/29/20

**Mobile phase A:** 5mM Amm Form + 0.01% FA  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.01% Formic Acid in MeOH  
Ethyl Acetate 20% Methanol in Water

**Blank Blood Lot:** 445283-3

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

**LCMS-QQQ ID:** 069901

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 42** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.  
Worklist path: *D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS*  
Batch Name: *MDQ TS*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N \_\_\_\_\_ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: *Curves limited: 7-aminoclonazepam: 5-500, Amphetamine: 5- 250, Buprenorphine 1-50, Dihydrocodeine: 5-500, Lamotrigine: 5-250, Lorazepam: 10-1000, Mirtazapine 5-100, Norbuprenorphine: 1-100, Norfentanyl: 0.5-50*

*Codeine, dihydrocodeine calibrator 6 point dropped due to peak splitting.*



# Idaho State Police Forensic Services

TS

---

**AM #25 Blood Multi-Drug Screen by LCMS-QQQ  
And  
AM #28 Blood Multi-Drug Confirmatory Analysis by  
LCMS-QQQ---Panel 1**

---

**Methanol External Control Solution (Lot: 031319)**  
*100 ul of 1mg/mL stock was added to each drug to 9700 ul of LC MeOH.  
\*Made for the AM 28 urine validation*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/13/19		
Prepared By:	Tamara Salazar		
Expires:	03/13/2020		

**Blood External Control Solution (Lot: WS010820)**  
*100 ul of methanol external control solution was added to 9900 ul of blood.  
Approximately 100ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031319
Prepared:	01/08/2020	
Prepared by:	Tamara Salazar	
Expires:	03/13/2020	

# AM #28 Multi-Drug Quant. Results

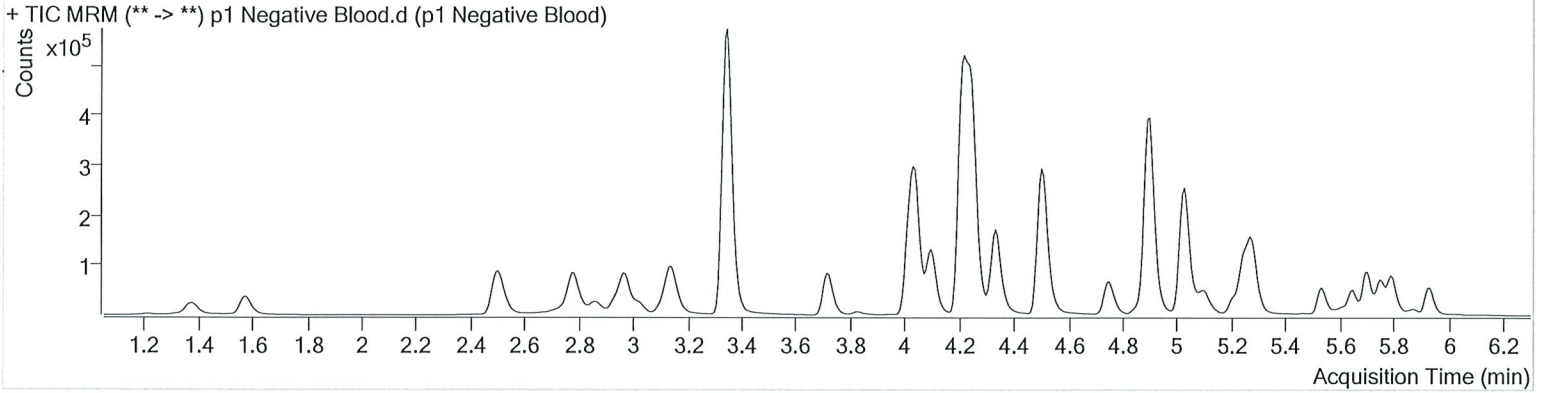
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative Blood
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-E2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 7:05:55 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



TS

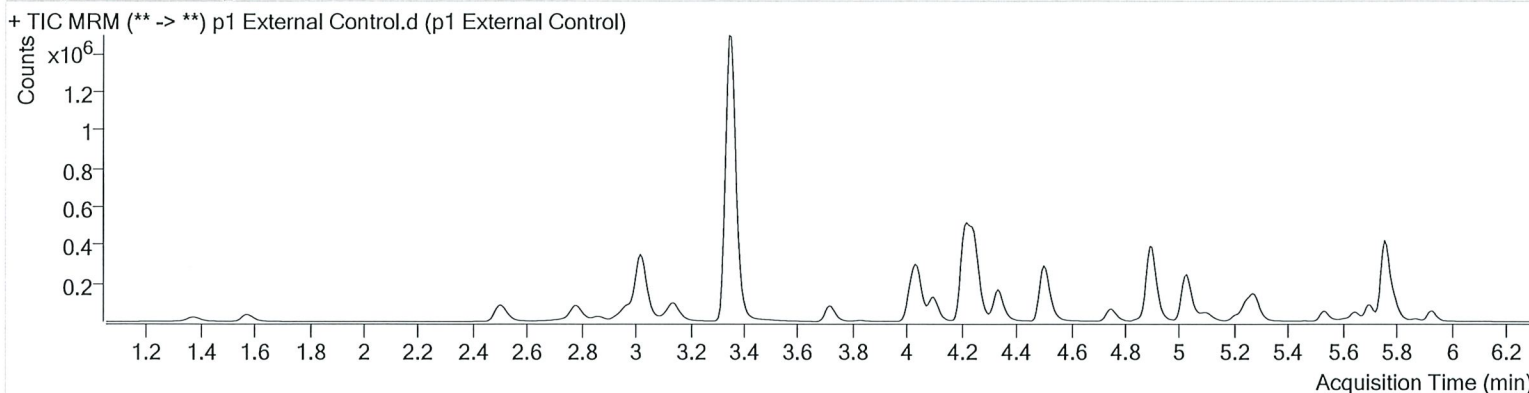


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<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 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-F2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 7:16:31 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	424382	5130.73	104.5	4314.15	122381	89.1862 ng/ml
Amphetamine	3.021	648827	23262.48	53.5	14425.58	86884	101.0005 ng/ml
O-desmethyl-tramadol	3.354	2513797	2892.24	6.0	973.82	1415026	97.3809 ng/ml

# AM #28 Multi-Drug Quant. Results

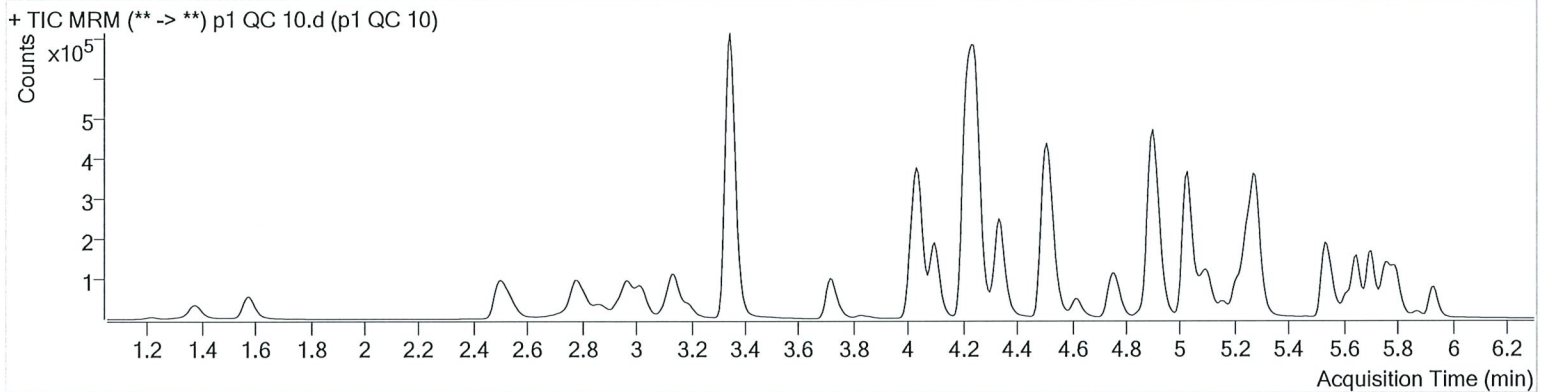
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 10
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-A2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 5:30:32 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	2102	1079.12	72.4	562.70	47118	0.9482 ng/ml
7-aminoclonazepam	4.237	30197	1958.73	81.7	1222.80	121404	9.9525 ng/ml
a-hydroxyalprazolam	5.680	4332	83.10	60.1	242.11	10058	8.8561 ng/ml
alpha-PVP	4.344	103793	1324.34	50.9	725.48	472447	9.9400 ng/ml
Alprazolam	5.756	54204	1033.19	104.1	344.88	135937	10.4851 ng/ml
Amphetamine	3.021	86011	991.23	52.4	1873.01	101269	10.5577 ng/ml
Benzoylcegonine	3.853	4104	1169.52	9.1	52.88	16556	9.5535 ng/ml
Buprenorphine	5.848	1448	36.77	17.6	11.56	47866	1.1319 ng/ml
Bupropion	4.773	70234	3813.63	57.3	305.88	244759	10.1486 ng/ml
Carisoprodol	5.705	33060	261.84	56.8	101.03	157943	10.6384 ng/ml
Citalopram	5.209	40390	470.61	40.2	∞	176448	10.4288 ng/ml
Clonazepam	5.593	7825	387.68	37.5	830.55	9331	10.2189 ng/ml
Cocaine	4.243	119890	13280.08	44.2	18996.53	954524	9.8644 ng/ml
Codeine	2.556	16538	1475.59	97.4	861.65	67529	10.4347 ng/ml
Cyclobenzaprine	5.617	25879	641.71	9.7	166.38	92457	10.3726 ng/ml
Dextromethorphan	5.252	21301	145.65	75.9	420.28	92977	10.7127 ng/ml
Dextropropoxyphene	4.100	27911	5538.31	214.3	6703.99	352600	10.3410 ng/ml
Diazepam	5.934	27392	1385.76	88.0	624.48	125449	10.1669 ng/ml
Dihydrocodeine	2.528	43642	3852.78	66.4	1393.19	235702	10.4326 ng/ml
Diphenhydramine	5.279	87639	222.17	33.2	3059.25	635320	10.3158 ng/ml
Doxylamine	4.521	228703	3819.66	97.3	2148.98	972781	9.4587 ng/ml
EDDP	5.251	58556	2396.50	42.2	2777.74	305118	10.2125 ng/ml
Fentanyl	5.092	2625	217.73	78.6	58.89	146099	0.8953 ng/ml
Fluoxetine	5.702	28317	721.15	9.4	183.41	116530	10.5291 ng/ml
Hydrocodone	2.998	34682	171.20	41.2	110.07	230339	9.9733 ng/ml
Hydromorphone	1.587	32266	858.39	79.1	546.21	125855	9.6784 ng/ml
Ketamine	4.033	107138	18768.88	37.3	1008.20	489987	10.3203 ng/ml
Lamotrigine	4.261	11269	3056.53	74.6	2128.55	489987	11.7557 ng/ml
Lorazepam	5.734	2527	108.86	51.7	6.22 <b>Low</b>	9331	12.1518 ng/ml
Meprobamate	4.881	8409	576.17	24.9	92.00	41486	10.4571 ng/ml
Methadone	5.648	53233	982.14	52.7	406.86	245084	10.4200 ng/ml
Methamphetamine	3.195	52625	713.15	42.1	596.45	225520	10.3036 ng/ml
Metoprolol	4.306	22444	2277.40	96.9	∞	1222656	10.4176 ng/ml

# AM #28 Multi-Drug Quant. Results

TS



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	78978	2851.47	49.6	721.10	472447	9.3788 ng/ml
Mitragynine	5.227	10244	639.16	38.7	70377.50	245084	10.2627 ng/ml
Morphine	1.220	5471	562.65	22.6	198.03	5886	10.1779 ng/ml
Nordiazepam	5.881	6304	755.14	61.3	281.34	20473	9.6736 ng/ml
Norfentanyl	4.068	12939	8130.83	38.8	221.39	551569	0.9700 ng/ml
Norhydrocodone	3.046	5312	550.44	43.0	173.62	50392	9.6649 ng/ml
Noroxycodone	2.883	25853	196.14	48.3	153.93	82461	9.9144 ng/ml
O-desmethyl-tramadol	3.354	291451	1975.34	6.1	447.40	1559303	10.1676 ng/ml
Oxazepam	5.738	2350	57.59	80.0	9.10 <b>Low</b>	16563	8.6574 ng/ml
Oxycodone	2.807	73161	1381.71	31.6	565.98	321063	10.5015 ng/ml
Oxymorphone	1.383	25062	379.51	50.4	716.44	93816	9.7714 ng/ml
Phentermine	3.751	22814	∞	2.7	24.16	270817	10.5245 ng/ml
Promethazine	5.534	59135	325.47	29.8	129.33	253235	10.7027 ng/ml
Quetiapine	5.551	72533	7758.31	60.8	4783.15	91973	10.2895 ng/ml
Sertraline	5.770	14941	639.04	96.0	∞	62492	10.7319 ng/ml
Temazepam	5.798	27700	176.88	28.5	95.88	140692	10.4489 ng/ml
Tramadol	4.226	248118	2012.36	3.5	218.80	1222656	10.6373 ng/ml
Trazodone	5.160	54959	2474.27	78.1	741.36	230626	10.2601 ng/ml
Venlafaxine	5.027	143812	1812.24	36.9	642.20	764685	10.2432 ng/ml
Zolpidem	4.918	246852	249.04	30.7	8272.15	1125825	10.3909 ng/ml



# AM #28 Multi-Drug Quant. Results

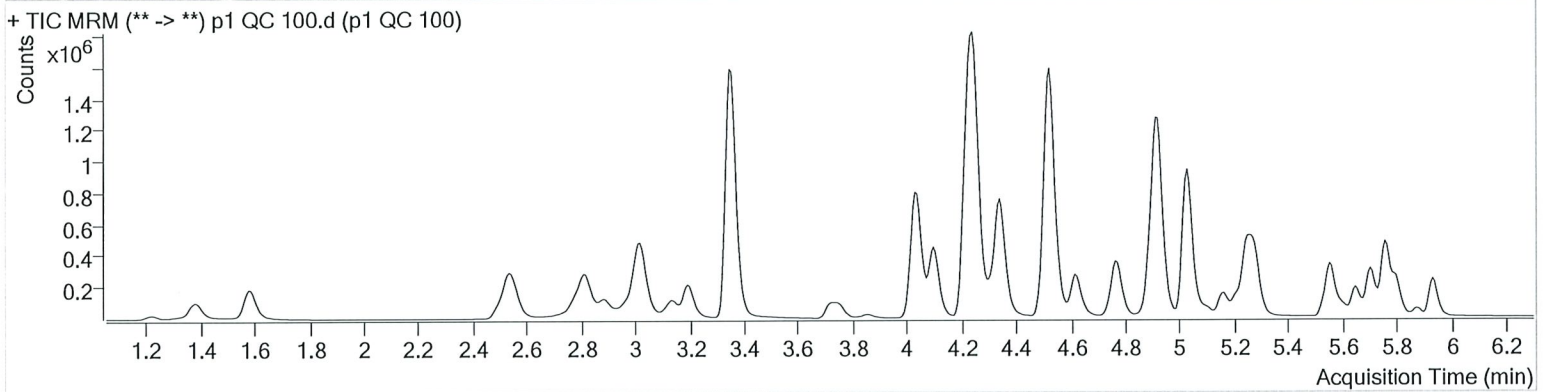
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wkst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 100.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 100
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-B2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 5:51:45 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	20270	1162.72	70.8	2857.68	44710	10.1372 ng/ml
7-aminoclonazepam	4.237	203788	10935.98	81.5	5544.67	90200	102.2145 ng/ml
a-hydroxyalprazolam	5.680	41600	1274.72	60.3	2786.15	9410	93.2456 ng/ml
alpha-PVP	4.344	955985	28455.25	50.4	1089.80	447973	95.0424 ng/ml
Alprazolam	5.756	464155	2567.72	101.8	2775.07	120651	98.9150 ng/ml
Amphetamine	3.021	693697	14020.25	52.7	60837.87	92640	101.2787 ng/ml
Benzoylcegonine	3.853	37639	5799.93	7.7	203.27	15103	98.9881 ng/ml
Buprenorphine	5.848	5397	180.48	15.9	∞	19904	8.9726 ng/ml
Bupropion	4.773	536525	32000.68	58.0	8287.23	197223	100.5876 ng/ml
Carisoprodol	5.712	280444	888.93	54.7	3487.82	143980	99.3666 ng/ml
Citalopram	5.209	179464	841.75	41.7	∞	85068	96.6079 ng/ml
Clonazepam	5.600	72475	3529.79	34.7	3009.23	9487	95.8377 ng/ml
Cocaine	4.243	1087953	240590.98	43.9	91279.88	868515	95.1024 ng/ml
Codeine	2.556	139045	1377.46	101.0	26637.61	61112	104.2347 ng/ml
Cyclobenzaprine	5.617	49076	105221.25	10.4	∞	18748	97.1912 ng/ml
Dextromethorphan	5.252	76330	18721.23	79.5	221.49	34580	100.6715 ng/ml
Dextrorphan	4.100	244668	7274.15	209.7	16474.60	312300	102.3737 ng/ml
Diazepam	5.934	237987	1374.96	87.2	1320.03	114495	98.2263 ng/ml
Dihydrocodeine	2.534	383383	1813.52	67.3	3803.93	225768	102.9829 ng/ml
Diphenhydramine	5.279	403802	1022.28	33.8	5761.83	303735	95.8443 ng/ml
Doxylamine	4.521	1981361	12358.23	96.7	400181.71	868666	105.0323 ng/ml
EDDP	5.251	498813	20960.41	41.8	9044.70	275239	98.1770 ng/ml
Fentanyl	5.092	6475	239.52	73.3	8728.48	36231	9.9945 ng/ml
Fluoxetine	5.702	43797	1869.75	9.1	268.23	19604	97.0411 ng/ml
Hydrocodone	2.998	320638	469.24	42.0	∞	216494	102.5947 ng/ml
Hydromorphone	1.587	281110	∞	77.7	780.91	111007	99.8118 ng/ml
Ketamine	4.033	979023	1474.91	38.1	1825.65	467648	104.3198 ng/ml
Lamotrigine	4.261	87446	5422.30	79.8	4032.88	467648	105.0021 ng/ml
Lorazepam	5.734	24743	281.00	62.8	∞	9487	80.1810 ng/ml
Meprobamate	4.881	72911	3788.21	26.3	354.16	39461	102.4616 ng/ml
Methadone	5.648	202014	13336.97	52.7	2117.81	102089	94.0449 ng/ml
Methamphetamine	3.195	409361	∞	43.1	928.00	192520	99.6174 ng/ml
Metoprolol	4.313	197762	7881.96	95.7	8705.66	1174283	101.6916 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	456119	8642.92	49.4	3707.19	447973	43.6164 ng/ml
Mitragynine	5.227	31747	6505.05	39.3	24032.09	102089	89.6528 ng/ml
Morphine	1.226	46987	∞	23.1	336.61	5415	100.8382 ng/ml
Norbuprenorphine	4.983	310	44.92	78.6	32.14	1571	9.6216 ng/ml
Nordiazepam	5.881	58537	969.12	55.4	13882.33	18403	103.5102 ng/ml
Norfentanyl	4.068	113034	7266.37	37.8	548.66	482912	9.4271 ng/ml
Norhydrocodone	3.046	53623	137.98	42.1	218.77	49559	92.3955 ng/ml
Noroxycodone	2.889	227671	1050.54	48.9	3249.73	74363	99.3044 ng/ml
O-desmethyl-tramadol	3.354	2671399	114720.07	6.0	1152.10	1457831	100.4504 ng/ml
Oxazepam	5.738	23868	150.85	68.6	103.99	15291	99.6861 ng/ml
Oxycodone	2.814	676858	4420.22	32.1	1858.93	306872	106.2926 ng/ml
Oxymorphone	1.383	209281	∞	49.3	∞	80762	98.0026 ng/ml
Phentermine	3.751	190251	6330.81	2.5	226.44	239512	111.0365 ng/ml
Promethazine	5.534	118330	4207.72	30.8	588.83	54469	98.7843 ng/ml
Quetiapine	5.558	440886	89240.59	59.8	609.54	55633	106.2761 ng/ml
Sertraline	5.770	19672	254.65	90.2	326.31	8867	95.3852 ng/ml
Temazepam	5.798	248732	6103.58	30.0	670.12	127506	102.7079 ng/ml
Tramadol	4.226	2228760	6696.30	3.4	591.58	1174283	108.9576 ng/ml
Trazodone	5.160	234001	2050.63	78.6	∞	101038	104.5668 ng/ml
Venlafaxine	5.027	1316645	1757.44	36.3	1570.19	710360	97.1809 ng/ml
Zolpidem	4.918	2261297	130471.14	30.2	36435.65	1084426	103.1402 ng/ml

# AM #28 Multi-Drug Quant. Results

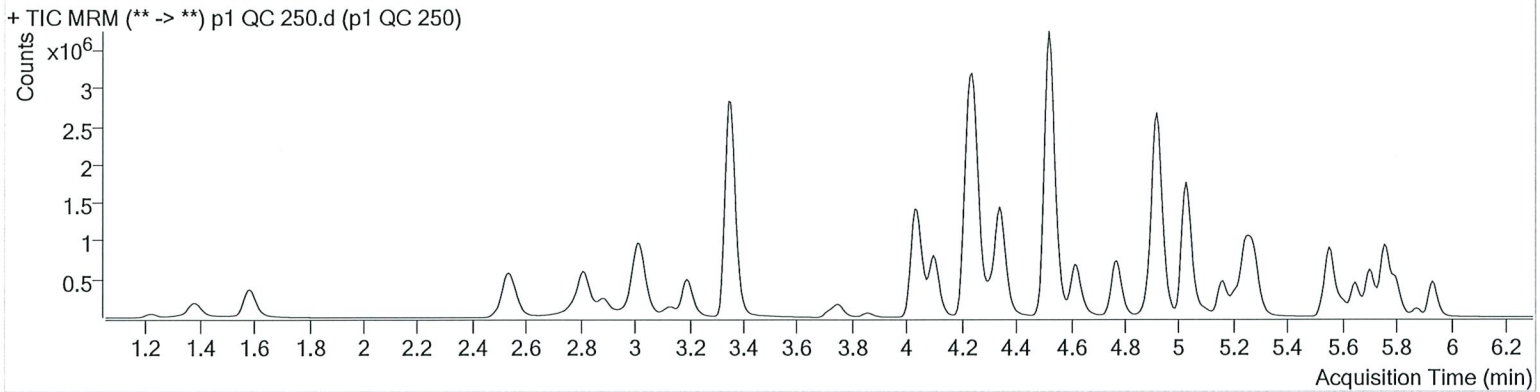
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 250.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 250
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-C2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 6:12:57 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	48740	1485.08	69.4	3109.29	42194	25.9135 ng/ml
7-aminoclonazepam	4.237	393307	13233.91	80.5	1057.24	77017	232.8789 ng/ml
a-hydroxyalprazolam	5.680	100871	2696.55	63.0	1514.66	8583	248.3175 ng/ml
alpha-PVP	4.344	2117038	58251.54	50.7	29704.64	392520	239.9418 ng/ml
Alprazolam	5.756	985877	∞	102.6	1235.41	101628	249.0291 ng/ml
Amphetamine	3.021	1430477	15643.89	52.8	22822.42	85651	227.1800 ng/ml
Benzoylcegonine	3.853	95365	5120.53	7.5	1427.32	14725	257.7692 ng/ml
Buprenorphine	5.841	13949	141.53	15.4	∞	18764	24.3447 ng/ml
Bupropion	4.773	1198061	52415.60	58.5	4274.45	175455	253.2586 ng/ml
Carisoprodol	5.705	624208	7837.97	55.3	953.74	126572	251.6564 ng/ml
Citalopram	5.209	470928	5129.21	41.3	512.68	88120	244.8186 ng/ml
Clonazepam	5.593	178397	822.76	34.8	1056.60	8564	261.9358 ng/ml
Cocaine	4.243	2372472	123628.49	43.7	175550.19	748711	240.0133 ng/ml
Codeine	2.556	293607	1868.37	100.5	11938.59	53361	253.3188 ng/ml
Cyclobenzaprine	5.617	171127	5804.51	9.9	393.13	25936	245.0126 ng/ml
Dextromethorphan	5.252	205218	626.66	79.8	1949.02	37268	250.6948 ng/ml
Dextrorphan	4.100	534064	2759.39	211.3	462540.34	270241	258.2455 ng/ml
Diazepam	5.934	529340	4255.85	87.5	2352.46	100402	249.4079 ng/ml
Dihydrocodeine	2.528	837384	47681.00	67.3	10929.64	214483	237.9312 ng/ml
Diphenhydramine	5.279	1032748	1275.22	33.6	14656.94	303957	244.3045 ng/ml
Doxylamine	4.521	5000651	193286.01	97.4	24473.16	874159	265.7183 ng/ml
EDDP	5.251	1191854	14766.16	41.8	124716.58	259308	249.3107 ng/ml
Fentanyl	5.092	20136	1856.65	74.2	∞	44114	25.7154 ng/ml
Fluoxetine	5.702	150070	1923.95	8.8	196.92	26140	249.4143 ng/ml
Hydrocodone	2.998	762558	∞	40.5	∞	202825	261.2211 ng/ml
Hydromorphone	1.587	633743	2383.66	78.6	1050.77	100610	248.9780 ng/ml
Ketamine	4.033	2222780	143968.16	37.8	14844.73	430292	258.3532 ng/ml
Lamotrigine	4.261	173488	23421.80	78.3	23511.62	430292	227.9308 ng/ml
Lorazepam	5.728	68409	1155.69	57.6	188.45	8564	236.7917 ng/ml
Meprobamate	4.881	168177	988.87	26.3	607.54	36914	253.9358 ng/ml
Methadone	5.648	553357	∞	53.7	1887.73	110050	238.8036 ng/ml
Methamphetamine	3.195	1001274	6588.68	42.6	10955.34	189227	248.9503 ng/ml
Metoprolol	4.313	412624	92375.03	96.5	∞	1041807	240.1679 ng/ml

# AM #28 Multi-Drug Quant. Results

TS



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
*Mirtazapine	4.616	1170321	212868.85	49.4	13275.02	392520	122.6060 ng/ml
Mitragynine	5.227	89269	6359.11	39.6	2397.66	110050	237.1803 ng/ml
Morphine	1.226	103283	739.83	23.3	754.84	4785	251.9080 ng/ml
Norbuprenorphine	4.983	855	1212.76	84.5	157.70	1584	26.5108 ng/ml
Nordiazepam	5.881	132693	1180.09	56.8	797.52	16842	256.9538 ng/ml
Norfentanyl	4.068	296728	65335.84	37.9	2350.50	473262	25.2048 ng/ml
Norhydrocodone	3.046	128009	∞	41.7	370.10	44724	243.2031 ng/ml
Noroxycodone	2.883	500466	4155.35	49.6	2898.11	66952	242.8648 ng/ml
O-desmethyl-tramadol	3.354	6133336	365044.68	5.9	3392.00	1293300	260.1054 ng/ml
Oxazepam	5.738	62817	5029.27	67.7	443.36	15810	254.4354 ng/ml
Oxycodone	2.807	1597565	3268.91	32.0	3362.01	290923	265.4296 ng/ml
Oxymorphone	1.383	472470	∞	48.6	∞	68709	260.6729 ng/ml
Phentermine	3.751	411090	7790.80	2.5	656.24	220344	262.6837 ng/ml
Promethazine	5.534	398031	69638.54	30.1	2278.43	74464	242.9206 ng/ml
Quetiapine	5.558	1207145	1374.24	59.2	1304.75	59777	271.3051 ng/ml
Sertraline	5.770	64421	∞	91.9	609.86	10950	252.1000 ng/ml
Temazepam	5.798	593965	2817.84	29.6	408.27	120761	258.8205 ng/ml
Tramadol	4.226	4825282	24253.23	3.4	1255.15	1041807	267.5232 ng/ml
Trazodone	5.160	721863	∞	79.4	3976.72	122438	267.0552 ng/ml
Venlafaxine	5.027	2988530	6165.97	36.5	2676.73	638914	244.5999 ng/ml
Zolpidem	4.918	5300374	1396.35	30.1	139327.70	1013128	259.5349 ng/ml

\*Outside curve range. - TS  
2-13-2020

# AM #28 Multi-Drug Quant. Results

TS

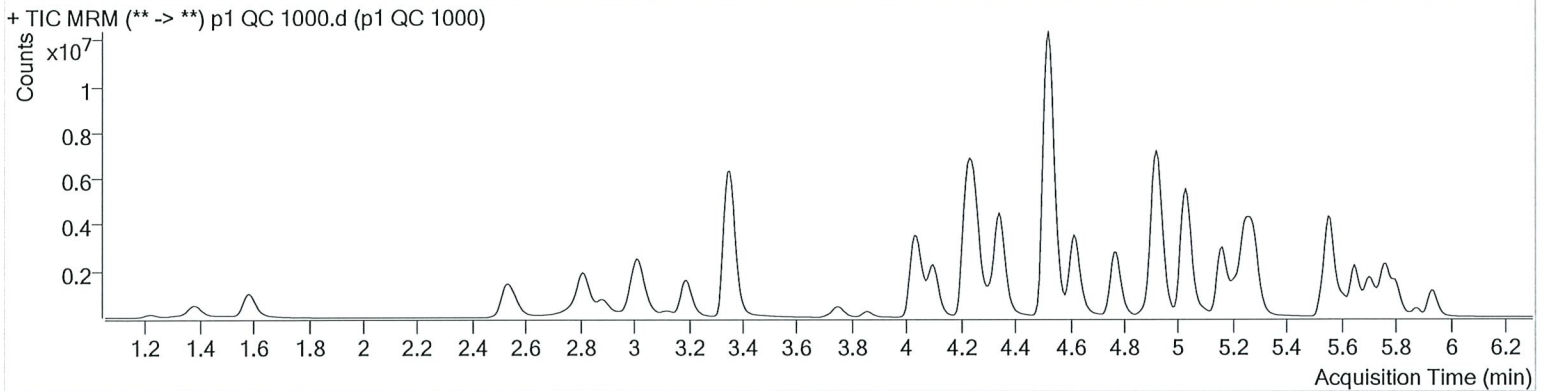


**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 1000
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-D2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 6:34:09 PM		
<b>Sample Info.</b>			

\*outside curve range. - TS  
2-13-2020

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	178554	3872.95	71.9	1698.57	39051	102.7345 ng/ml
* 7-aminoclonazepam	4.237	566385	10894.24	81.1	19453.66	39701	653.2026 ng/ml
a-hydroxyalprazolam	5.680	414554	841.04	60.8	2357.09	8802	995.9102 ng/ml
alpha-PVP	4.344	7620951	451141.71	50.3	94645.74	340398	995.4576 ng/ml
Alprazolam	5.763	2540696	4007.33	102.9	∞	63476	1026.6920 ng/ml
* Amphetamine	3.021	3677027	51660.29	52.6	253514.31	85376	587.4961 ng/ml
Benzoylcegonine	3.853	430827	8274.99	7.7	3791.96	15524	1105.6493 ng/ml
Buprenorphine	5.841	68846	920.99	16.1	1365.54	18139	123.6897 ng/ml
Bupropion	4.773	4914759	464106.38	57.4	142440.43	181404	1006.3921 ng/ml
Carisoprodol	5.712	1668666	4815.77	54.0	1552.84	86427	985.3588 ng/ml
Citalopram	5.209	2240032	∞	40.9	1080.49	102874	997.6818 ng/ml
Clonazepam	5.593	634188	107246.76	34.8	3004.50	8630	924.8548 ng/ml
Cocaine	4.250	6728530	324711.70	42.7	391326.22	506443	1005.1589 ng/ml
Codeine	2.556	821383	1206.11	98.5	18558.98	39783	952.9776 ng/ml
Cyclobenzaprine	5.617	997245	99267.57	10.2	2890.75	37255	994.1001 ng/ml
Dextromethorphan	5.258	905412	26141.90	79.3	16157.67	42146	977.1735 ng/ml
Dextrorphan	4.100	1757323	1777.88	211.9	25812.79	224007	1025.1438 ng/ml
Diazepam	5.934	1536412	16777.51	87.0	12170.28	73746	986.0583 ng/ml
* Dihydrocodeine	2.528	2375029	152029.20	68.1	38618.13	209859	691.3965 ng/ml
Diphenhydramine	5.279	5028481	88940.13	33.0	25301.45	357506	1010.0537 ng/ml
Doxylamine	4.521	18912008	879666.88	97.2	1117929.97	932698	945.7298 ng/ml
EDDP	5.251	5732309	14515.99	41.2	1338.82	302843	1027.3471 ng/ml
Fentanyl	5.092	130012	4245.44	73.6	592289.06	69782	105.3376 ng/ml
Fluoxetine	5.702	701192	29669.15	8.7	226.55	30446	1000.6531 ng/ml
Hydrocodone	2.998	2670809	∞	41.6	∞	202193	919.0491 ng/ml
Hydromorphone	1.587	2013093	741.25	78.7	517.13	80863	985.4126 ng/ml
Ketamine	4.033	7048540	230570.54	37.2	70913.48	382921	922.2454 ng/ml
* Lamotrigine	4.268	320839	48707.70	78.7	45813.50	382921	475.0922 ng/ml
Lorazepam	5.728	312593	9027.87	57.2	∞	8630	1058.5910 ng/ml
Meprobamate	4.881	541709	39768.86	26.0	2038.04	34638	873.8402 ng/ml
Methadone	5.648	3051409	115620.47	53.6	∞	147579	981.6376 ng/ml
Methamphetamine	3.195	3436413	44977.41	42.3	21777.47	182576	887.3357 ng/ml
Metoprolol	4.306	1158581	∞	96.5	∞	869352	809.8947 ng/ml

# AM #28 Multi-Drug Quant. Results



TS

2-13-2020  
 TS  
 2-13-2020

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* Mirtazapine	4.616	6340197	1544393.83	49.1	10424.37	340398	751.9990 ng/ml
Mitragynine	5.227	416906	56070.45	39.2	15397.19	147579	831.1265 ng/ml
Morphine	1.220	305170	∞	23.5	∞	3696	965.6132 ng/ml
Norbuprenorphine	4.976	3965	253.66	83.6	329.38	2046	95.4608 ng/ml
Nordiazepam	5.881	466733	2584.33	57.5	11742.36	14755	1032.7927 ng/ml
* Norfentanyl	4.068	1102810	144285.89	36.8	20834.90	350415	126.4031 ng/ml
Norhydrocodone	3.046	454527	∞	38.9	218.60	34357	1121.4620 ng/ml
Noroxycodone	2.883	1575389	6261.31	48.2	1999.15	52499	975.8154 ng/ml
O-desmethyl-tramadol	3.354	17830714	1018636.12	5.9	∞	959801	1019.1729 ng/ml
Oxazepam	5.738	310545	∞	69.0	1449.10	20281	981.7784 ng/ml
Oxycodone	2.807	5838462	∞	31.9	3150.87	278480	1014.8899 ng/ml
Oxymorphone	1.383	1461170	∞	48.7	651.53	58456	948.5426 ng/ml
Phentermine	3.751	1301523	11230.79	2.4	2670.02	217086	847.2468 ng/ml
Promethazine	5.534	2289784	8753.39	30.1	5021.39	105508	986.0032 ng/ml
Quetiapine	5.558	6094328	13684.22	59.5	9806.93	83060	986.5851 ng/ml
Sertraline	5.777	263829	977.56	88.9	555.40	11300	998.8998 ng/ml
Temazepam	5.805	2130287	2929.58	29.2	1857.08	107558	1041.9461 ng/ml
Tramadol	4.226	13635651	2932.85	3.3	1390.57	869352	908.6605 ng/ml
Trazodone	5.160	4748181	∞	79.1	224272.55	221270	973.4673 ng/ml
Venlafaxine	5.027	11423495	729573.51	35.4	9331.58	592414	1007.0269 ng/ml
Zolpidem	4.918	16503626	157503.86	30.6	188736.79	891593	919.5496 ng/ml

\*Outside curve range. - TS  
2-13-2020

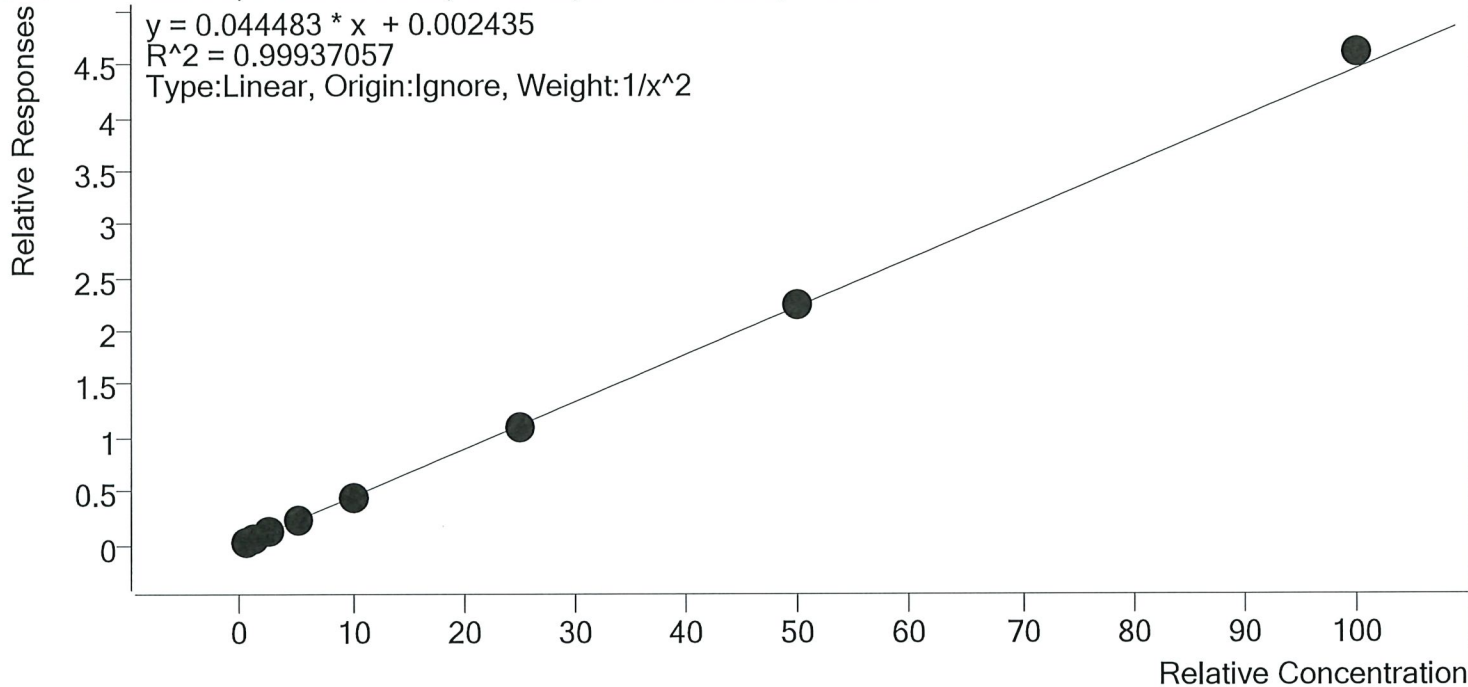


TS

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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 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



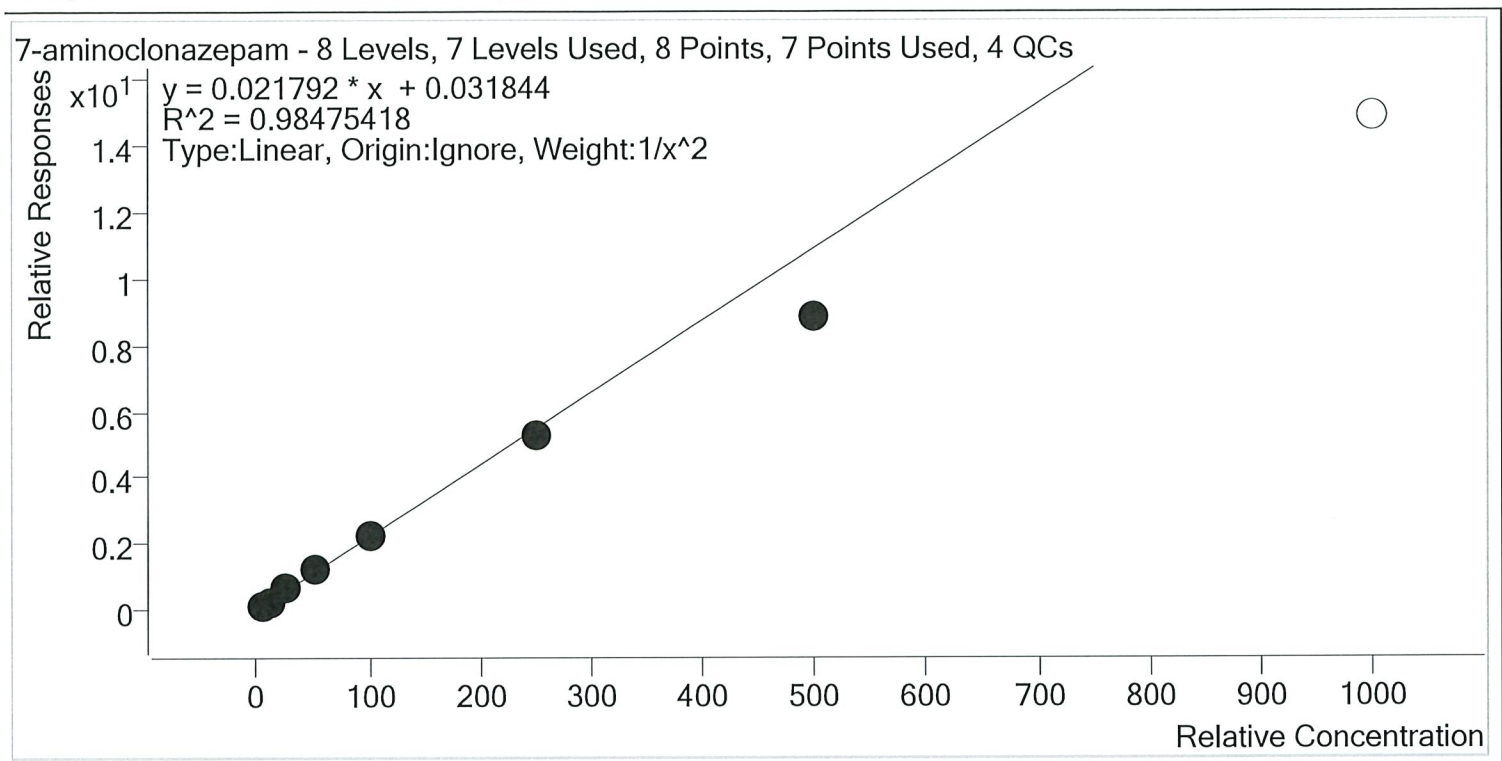
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.4
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.0
p1 Cal 4-50ng	4	✓	5.0	5.0	100.4
p1 Cal 5-100ng	5	✓	10.0	9.6	96.3
p1 Cal 6-250ng	6	✓	25.0	25.0	99.9
p1 Cal 7-500ng	7	✓	50.0	50.7	101.5
p1 Cal 8-1000ng	8	✓	100.0	103.5	103.5

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.4
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.7
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng	4	✓	50.0	55.5	111.0
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	239.7	95.9
p1 Cal 7-500ng	7	✓	500.0	403.5	80.7
p1 Cal 8-1000ng	8	×	1000.0	682.0	68.2





TS

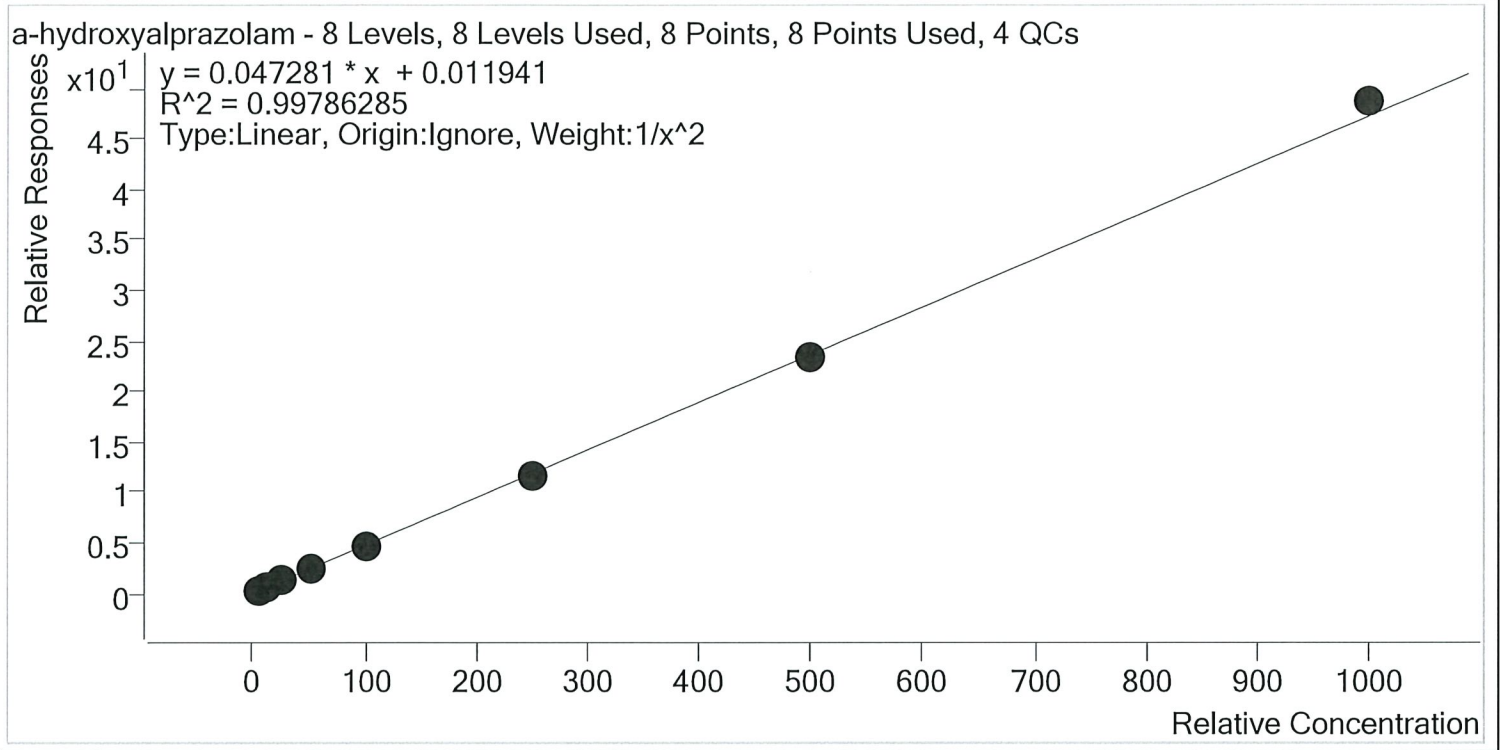
# AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

Last Cal. Update 2/13/2020 8:28 AM

Analyst Name ISP\datastor

Analyte a-hydroxyalprazolam Internal Standard a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.7
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.5
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1030.8	103.1

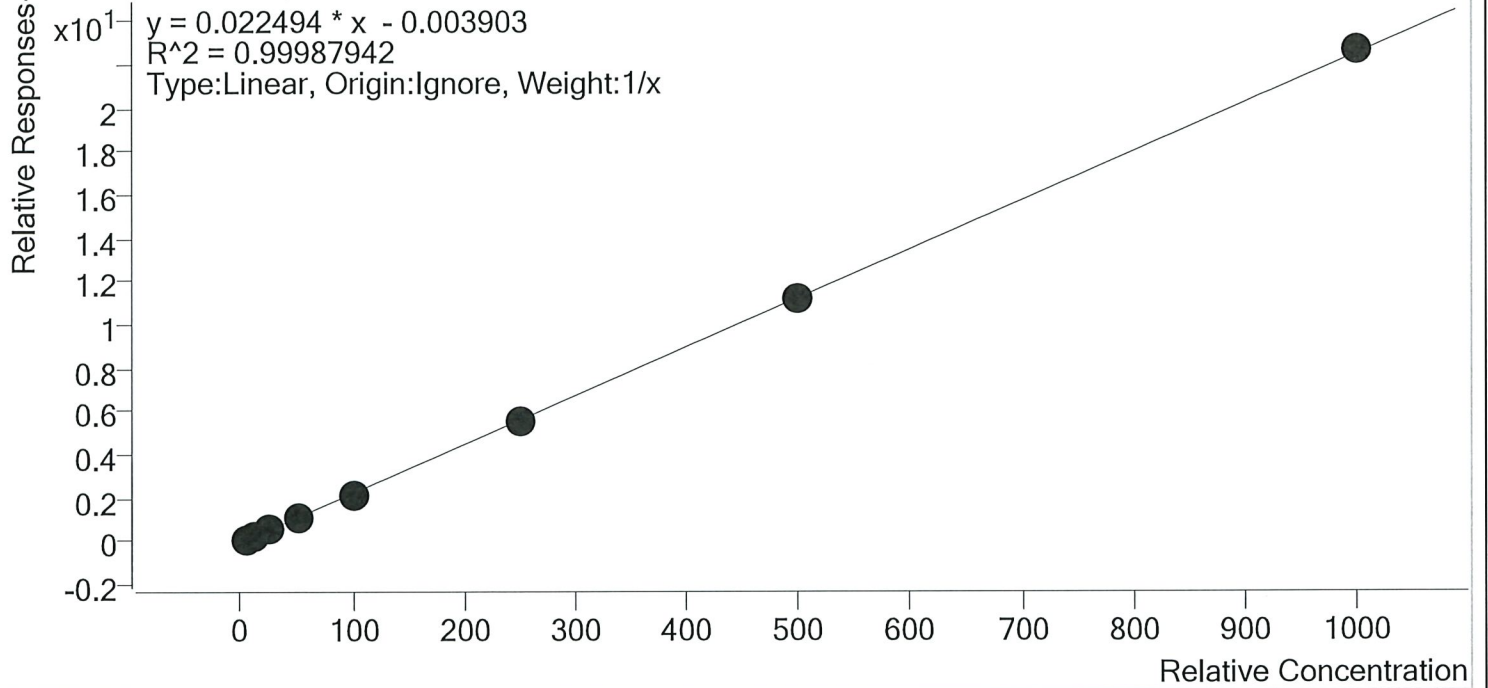
TS



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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 Analyst Name ISP\datator  
 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	5.2	104.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	498.6	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1007.0	100.7

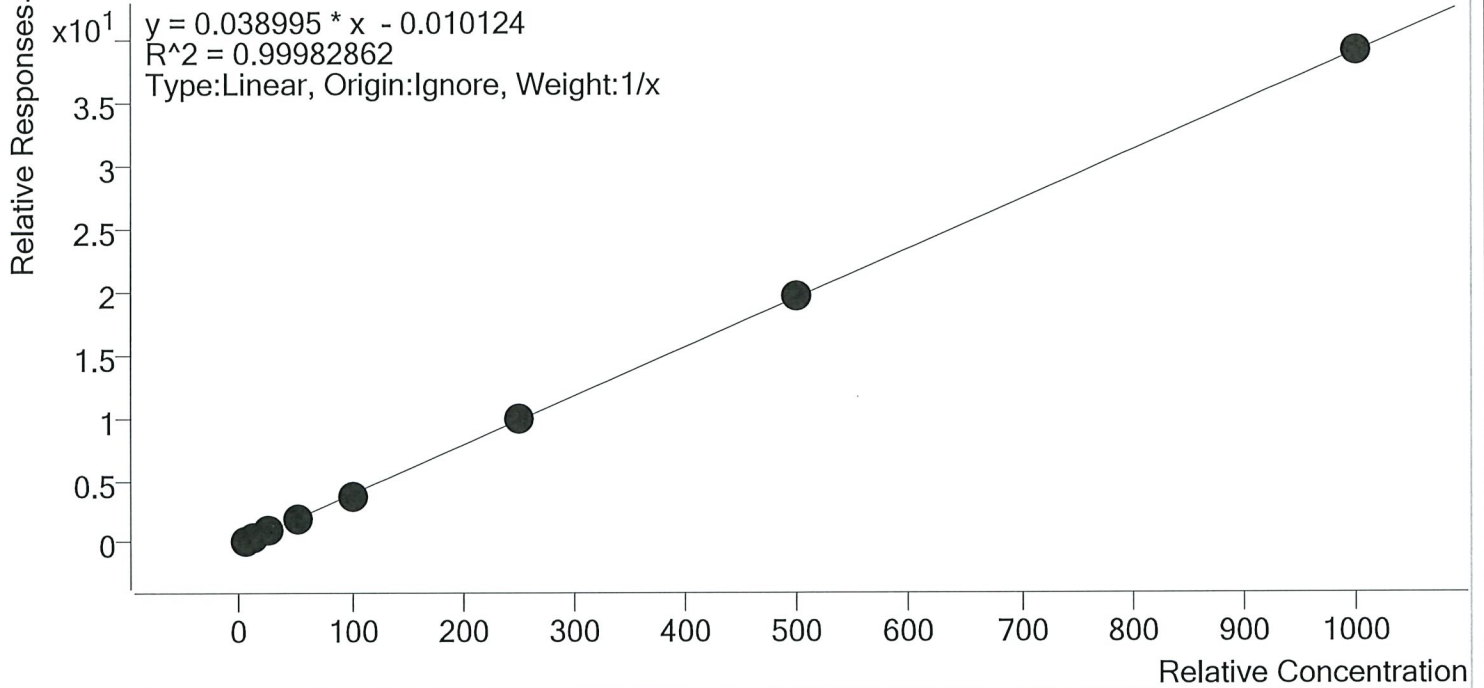
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	95.0	95.0
p1 Cal 6-250ng	6	✓	250.0	250.6	100.3
p1 Cal 7-500ng	7	✓	500.0	503.1	100.6
p1 Cal 8-1000ng	8	✓	1000.0	1001.1	100.1

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

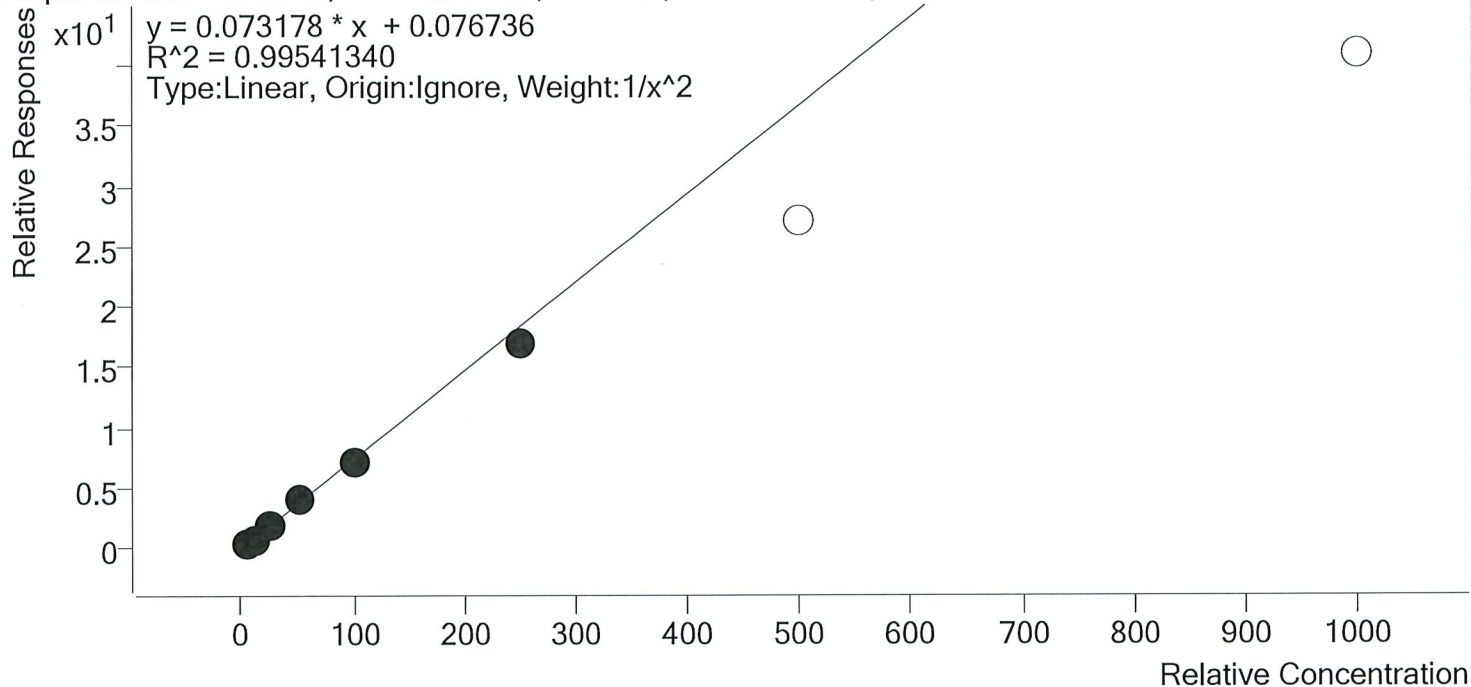
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



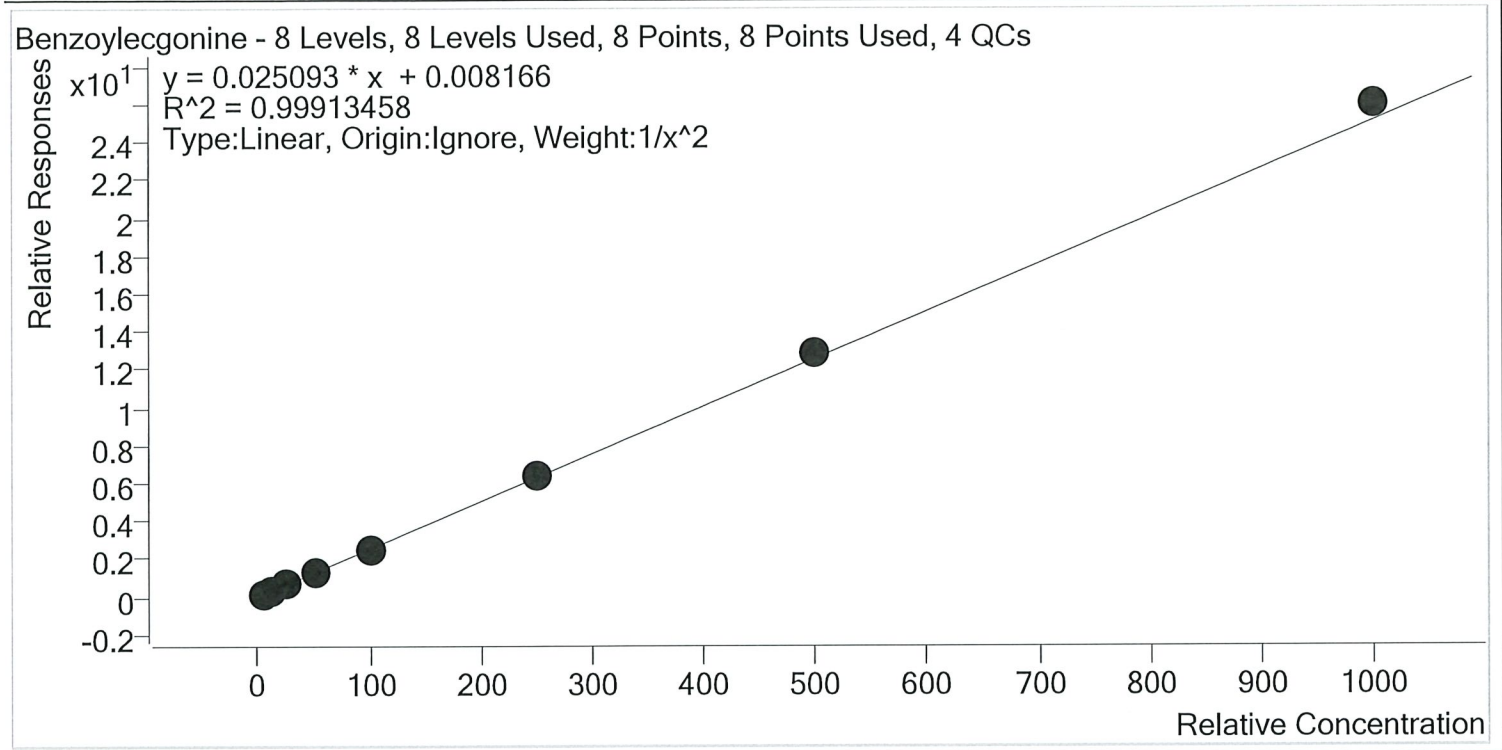
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.3
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	229.3	91.7
p1 Cal 7-500ng	7	×	500.0	367.9	73.6
p1 Cal 8-1000ng	8	×	1000.0	557.8	55.8

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8



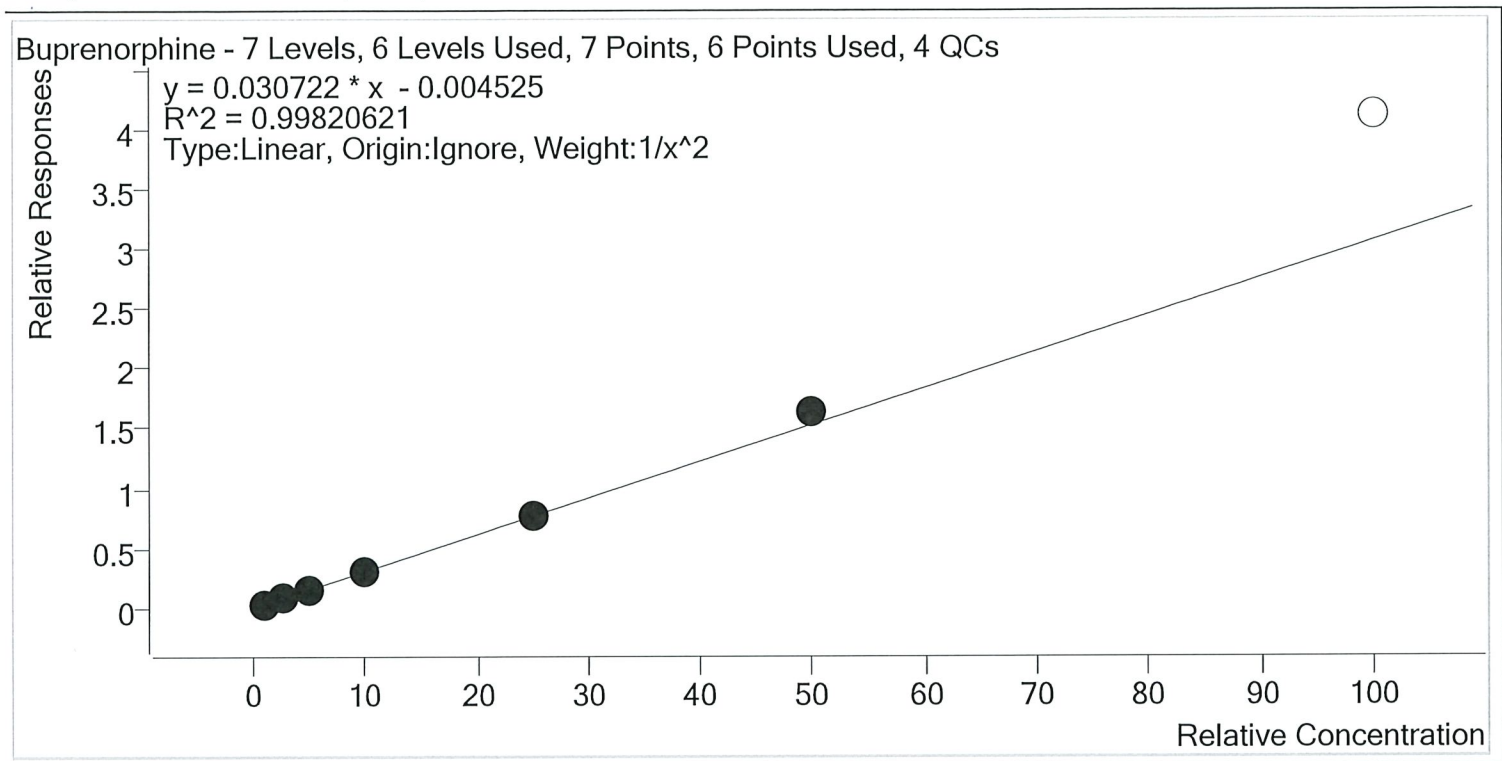
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	48.9	97.7
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	516.0	103.2
p1 Cal 8-1000ng	8	✓	1000.0	1035.2	103.5

TS



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

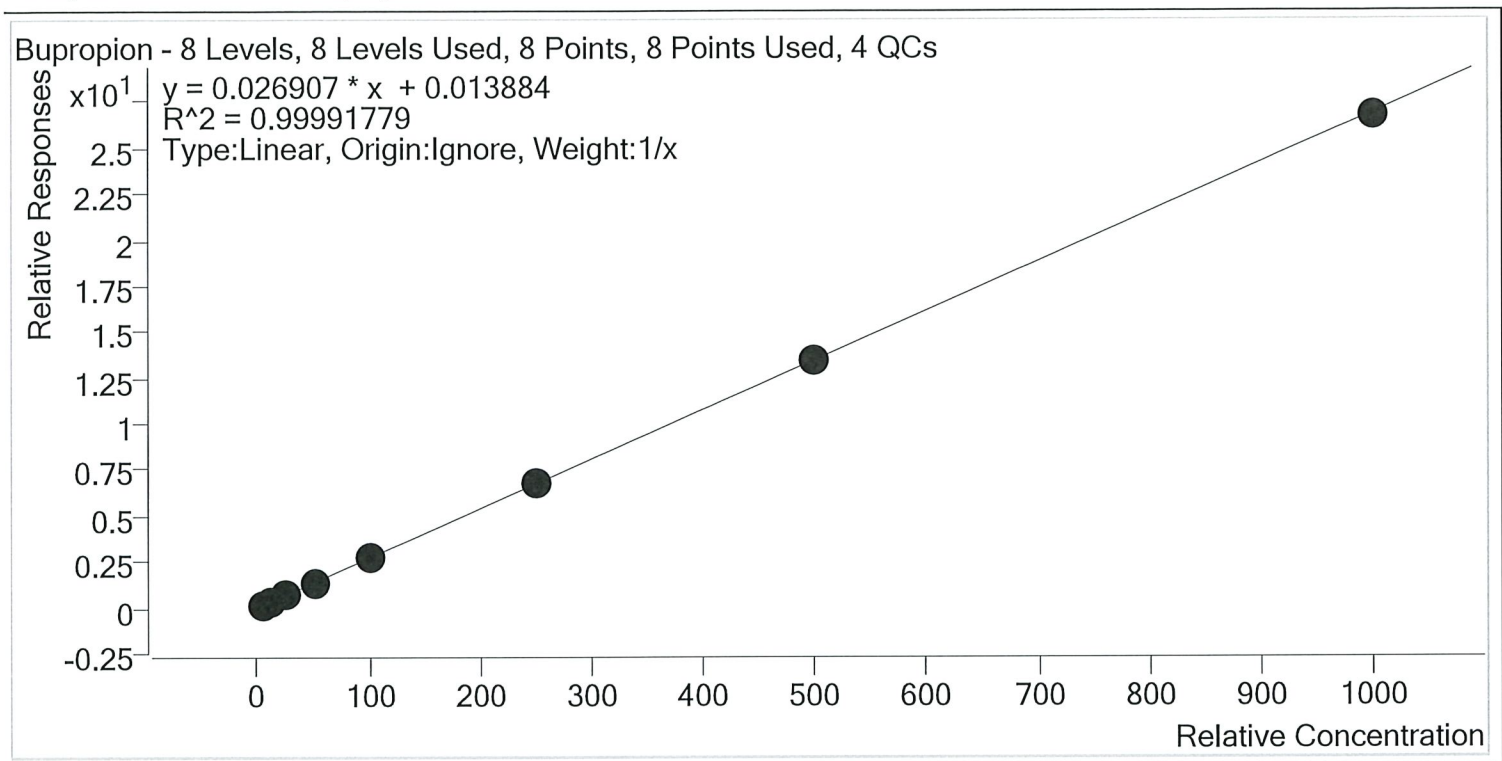
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.3
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.3
p1 Cal 4-50ng	4	✓	5.0	4.9	98.0
p1 Cal 5-100ng	5	✓	10.0	9.7	97.0
p1 Cal 6-250ng	6	✓	25.0	24.7	98.8
p1 Cal 7-500ng	7	✓	50.0	53.3	106.6
p1 Cal 8-1000ng	8	×	100.0	134.2	134.2

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



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	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	501.5	100.3
p1 Cal 8-1000ng	8	✓	1000.0	993.9	99.4

TS



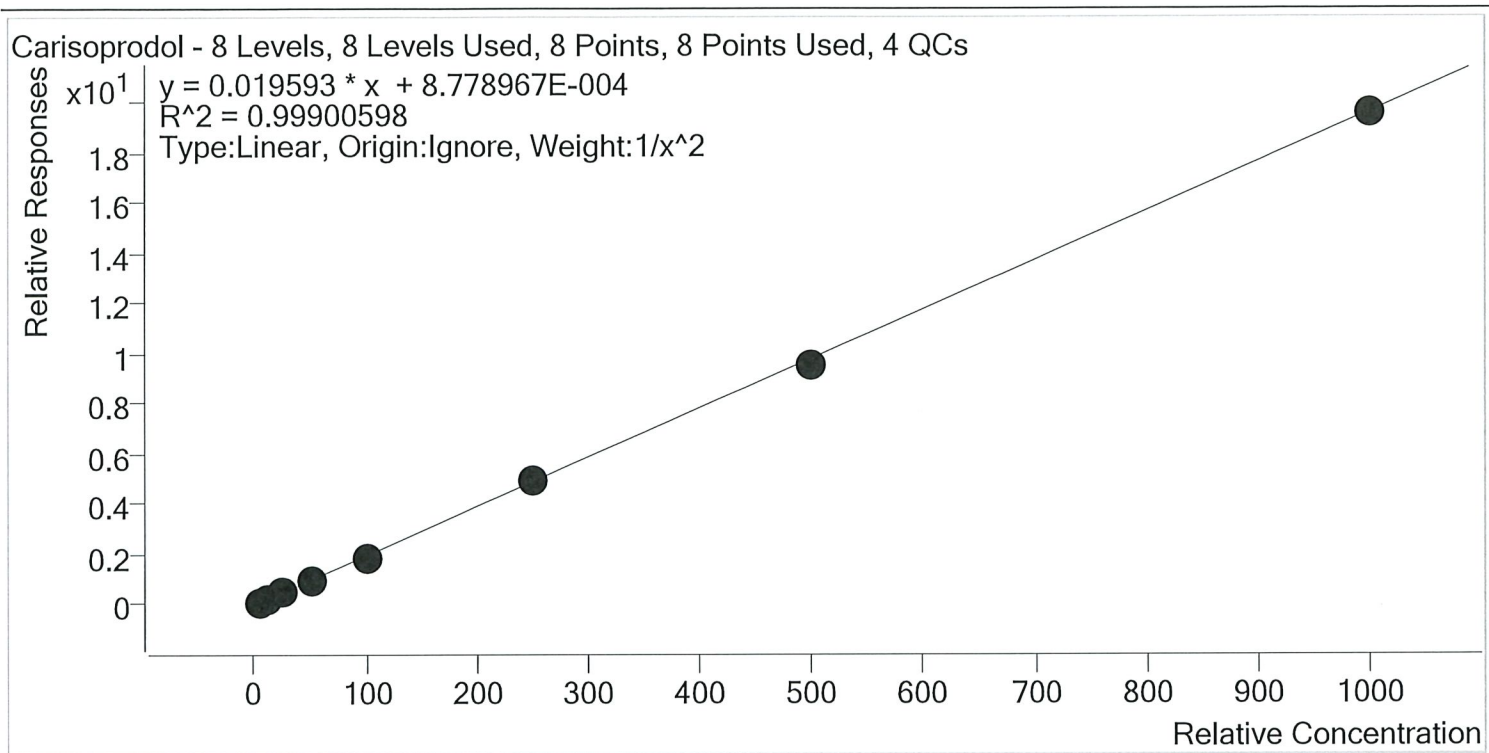
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	52.1	104.1
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	487.2	97.4
p1 Cal 8-1000ng	8	✓	1000.0	997.1	99.7





TS

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

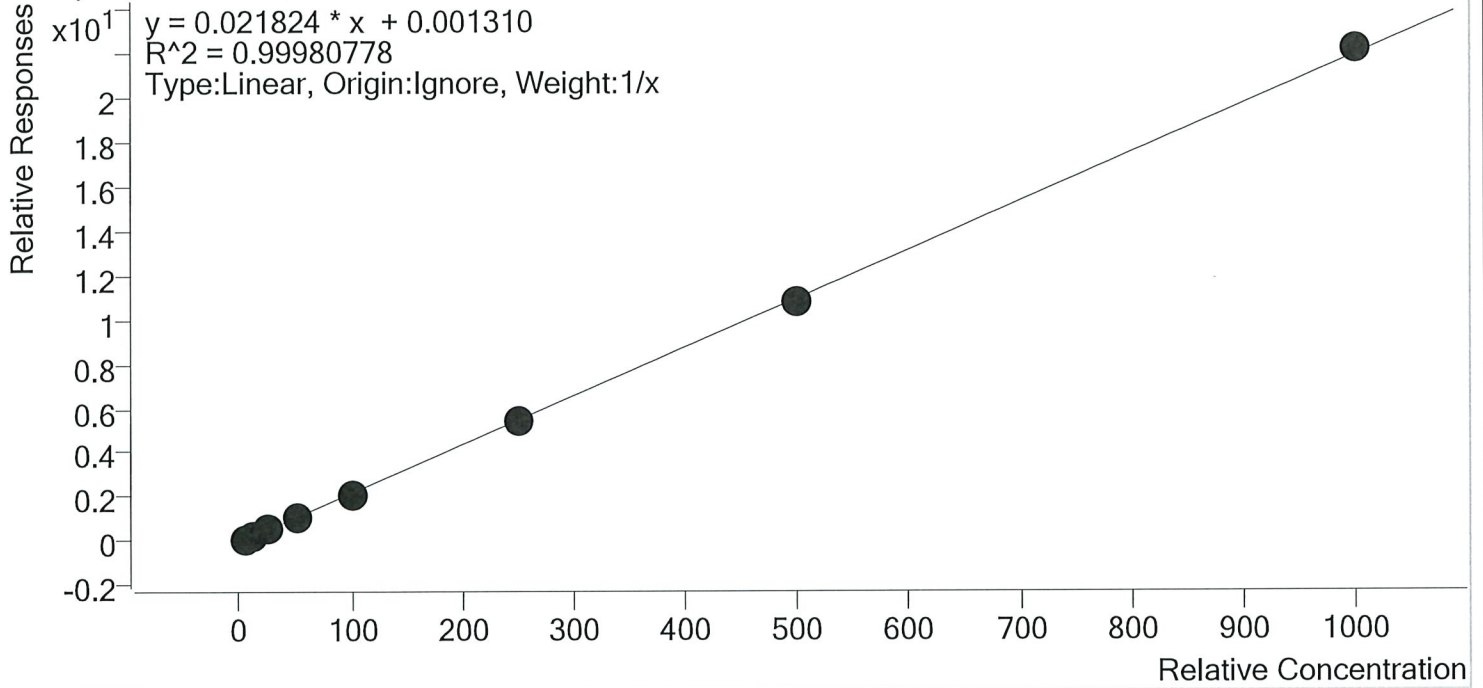
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

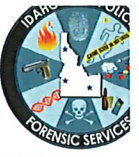
**Analyst Name** ISP\datastor

**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	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	245.9	98.4
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1010.8	101.1

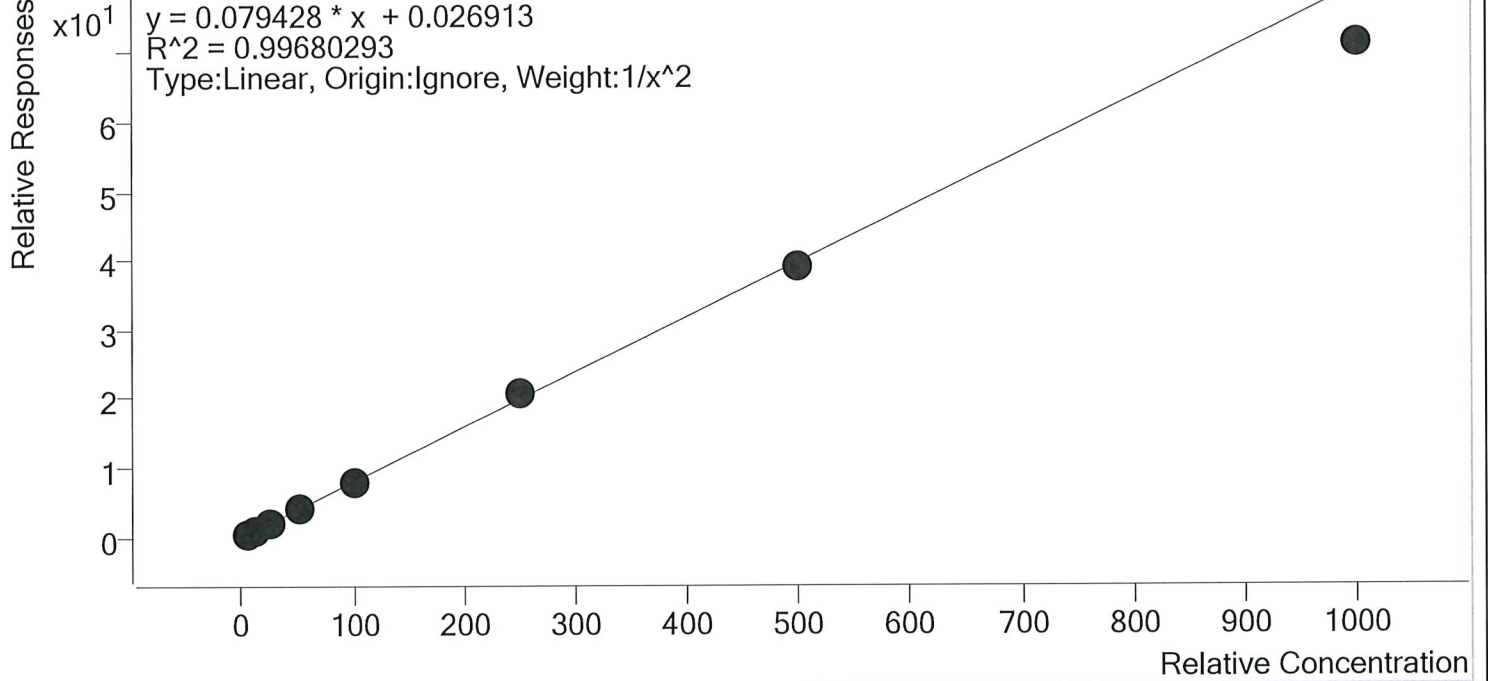


TS

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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 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	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	52.5	105.1
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	263.7	105.5
p1 Cal 7-500ng	7	✓	500.0	492.5	98.5
p1 Cal 8-1000ng	8	✓	1000.0	896.6	89.7

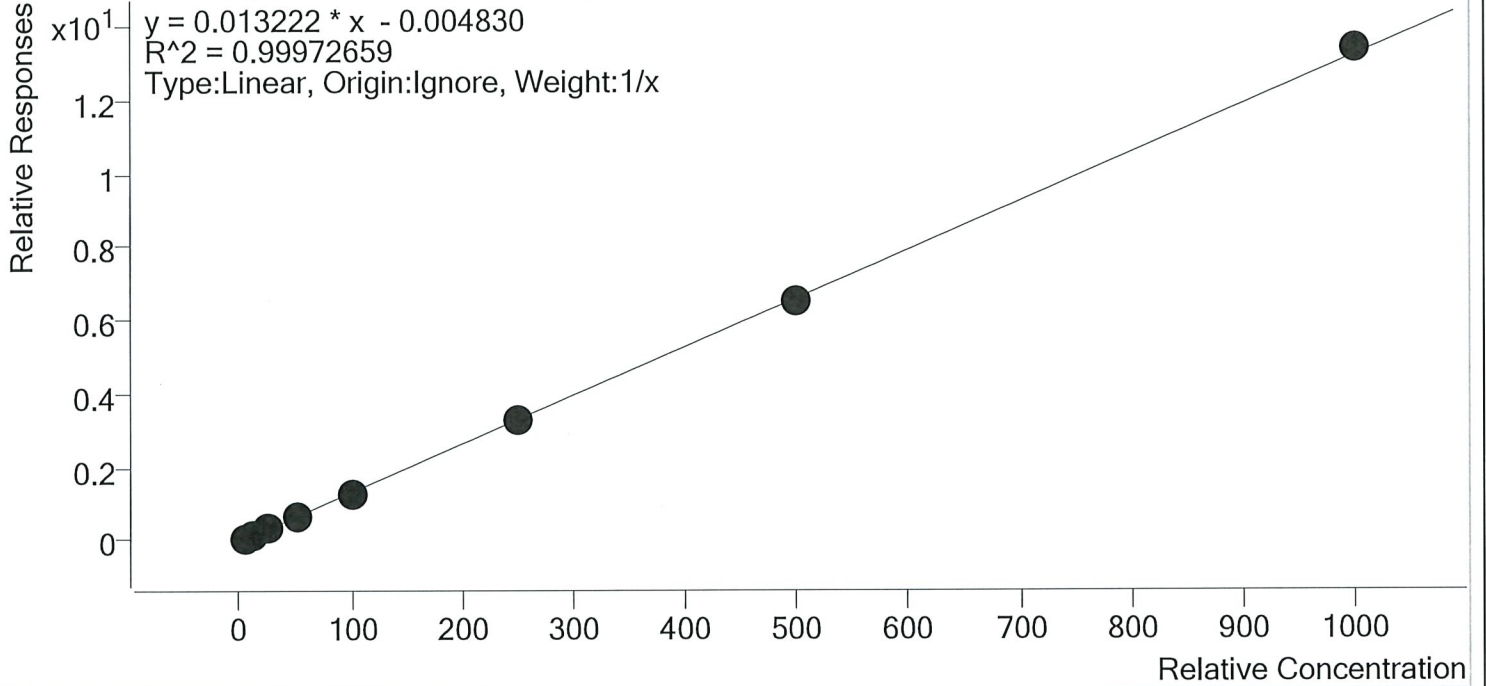


TS

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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 Analyst Name ISP\datastor  
 Analyte Cocaine Internal Standard Cocaine-d3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	495.6	99.1
p1 Cal 8-1000ng	8	✓	1000.0	1013.2	101.3

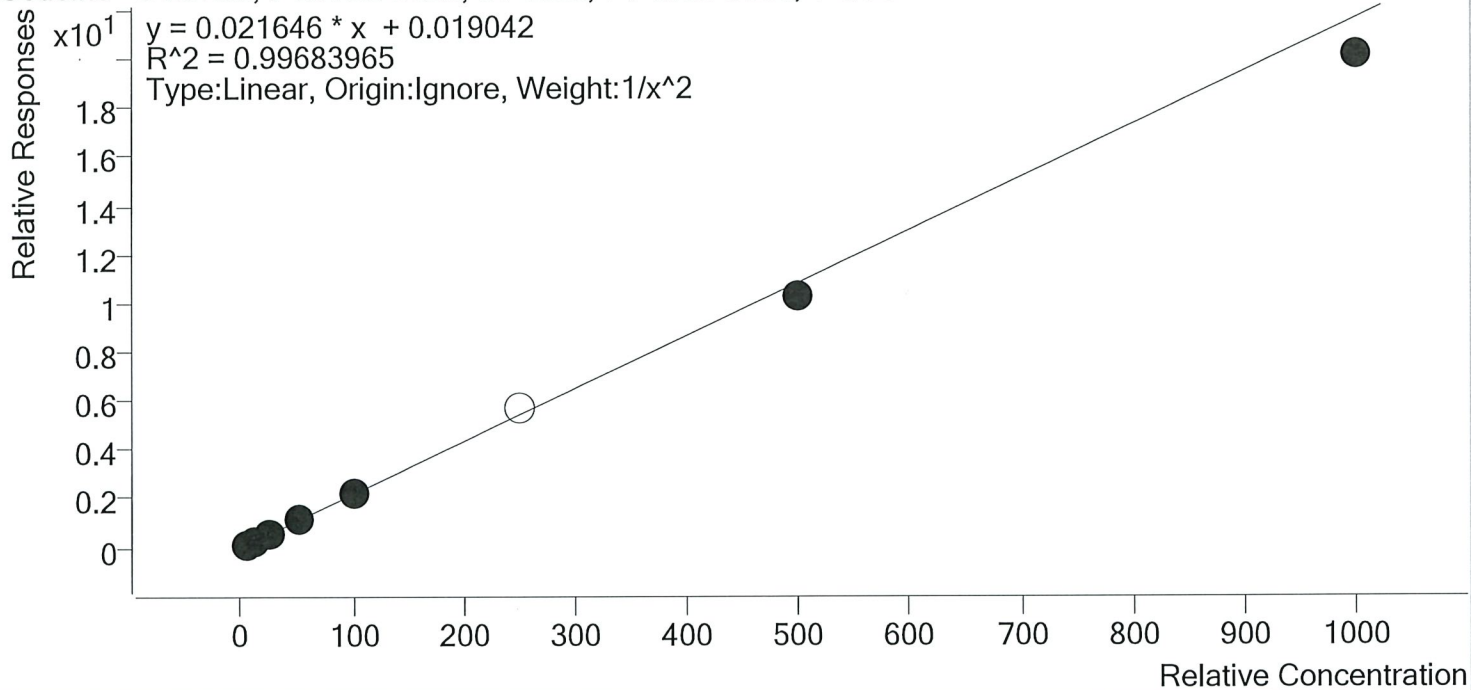
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

Codeine - 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	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.1
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	×	250.0	260.9	104.3
p1 Cal 7-500ng	7	✓	500.0	477.2	95.4
p1 Cal 8-1000ng	8	✓	1000.0	929.9	93.0

TS



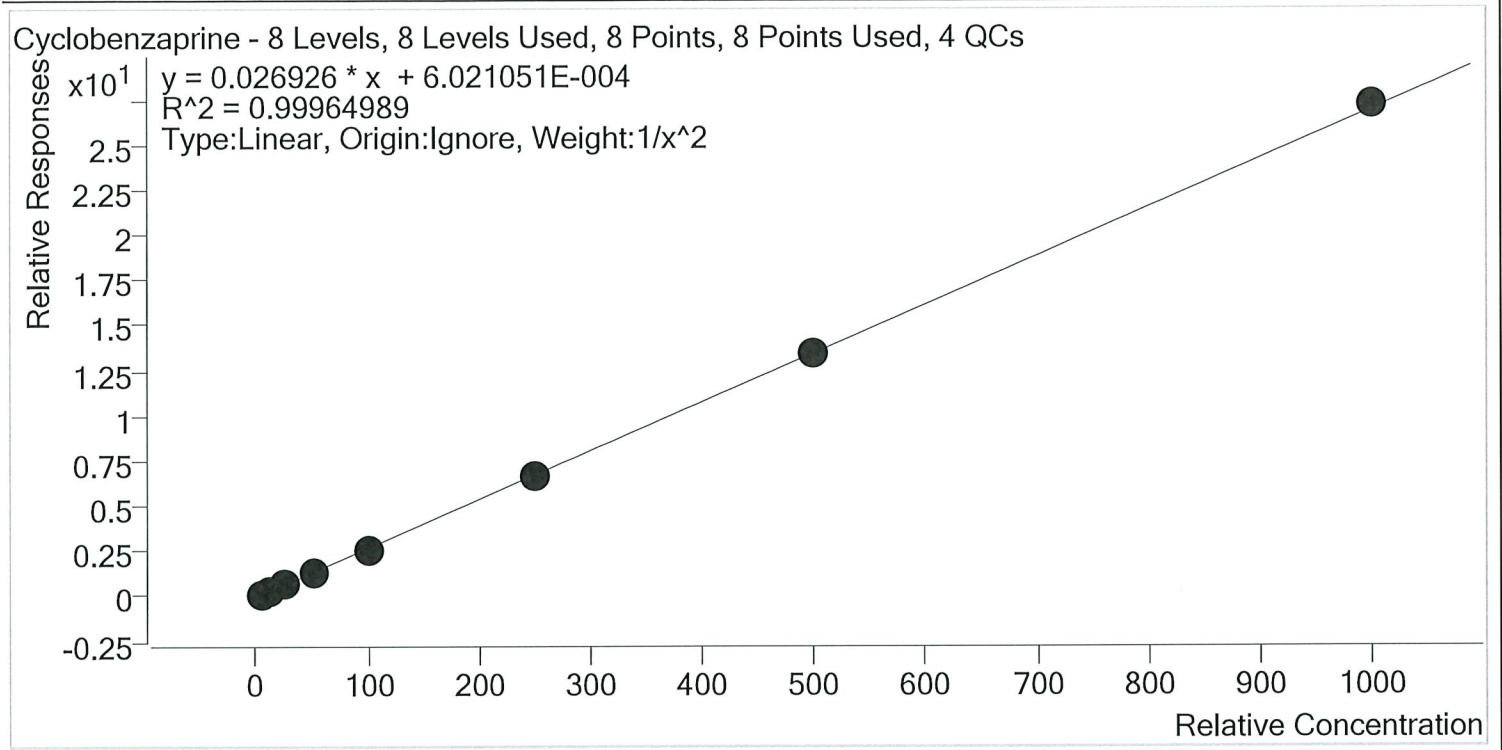
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1009.9	101.0

TS



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

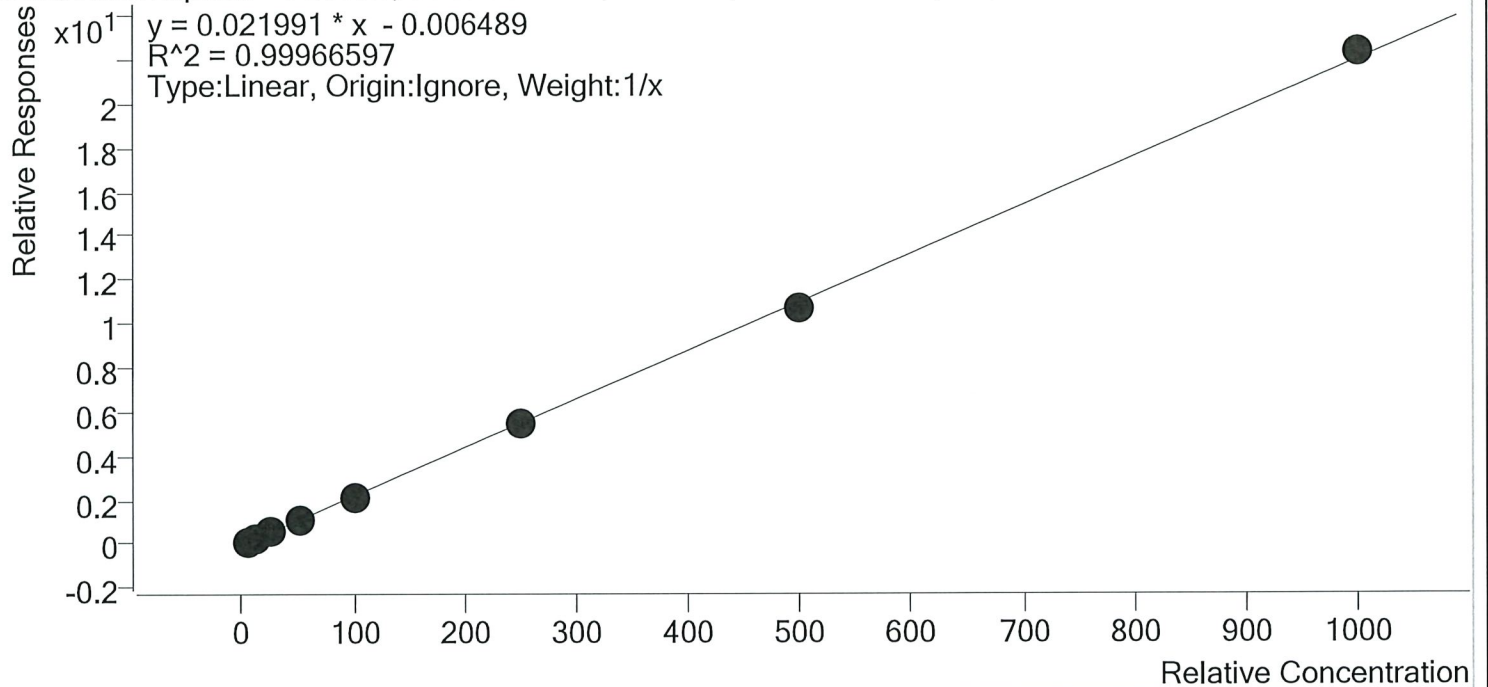
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

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



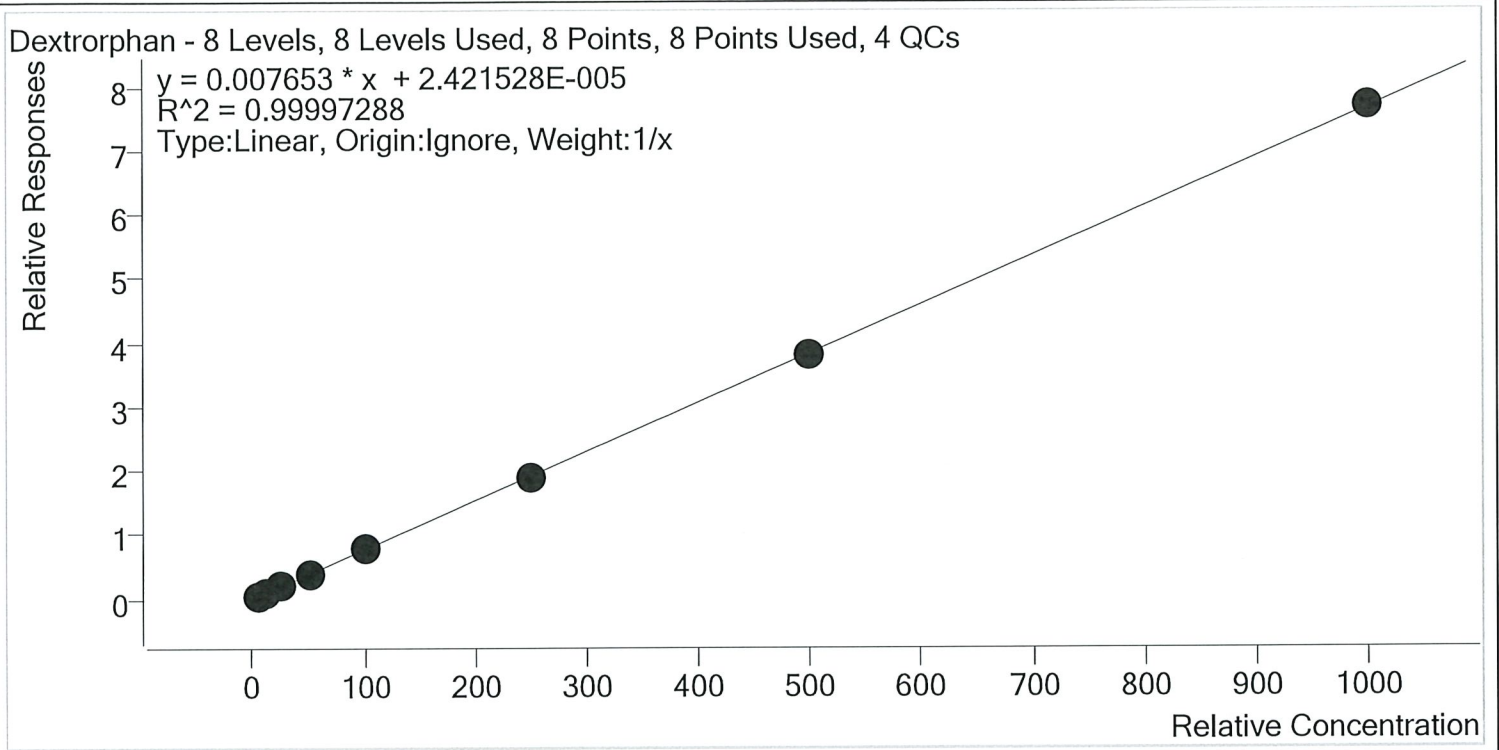
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	103.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	487.1	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1014.9	101.5

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	499.2	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1003.5	100.4

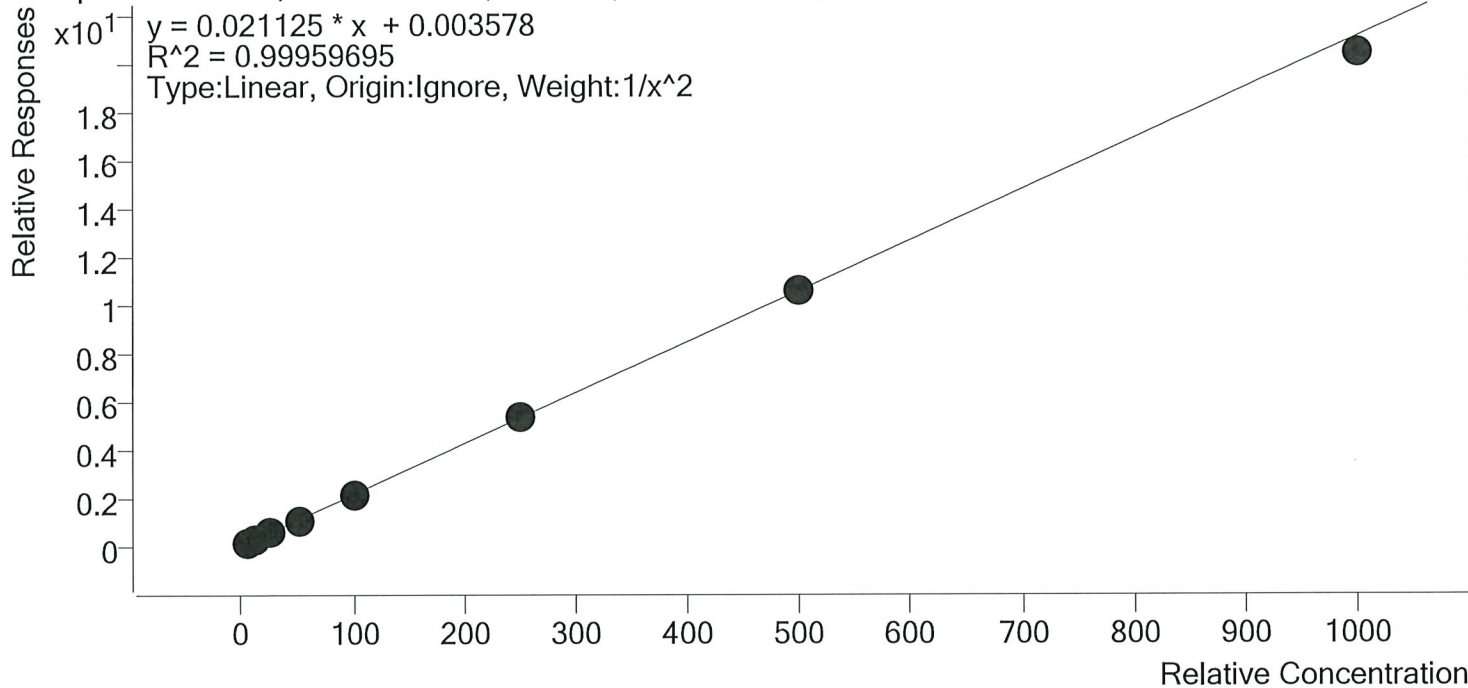
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	501.4	100.3
p1 Cal 8-1000ng	8	✓	1000.0	966.6	96.7

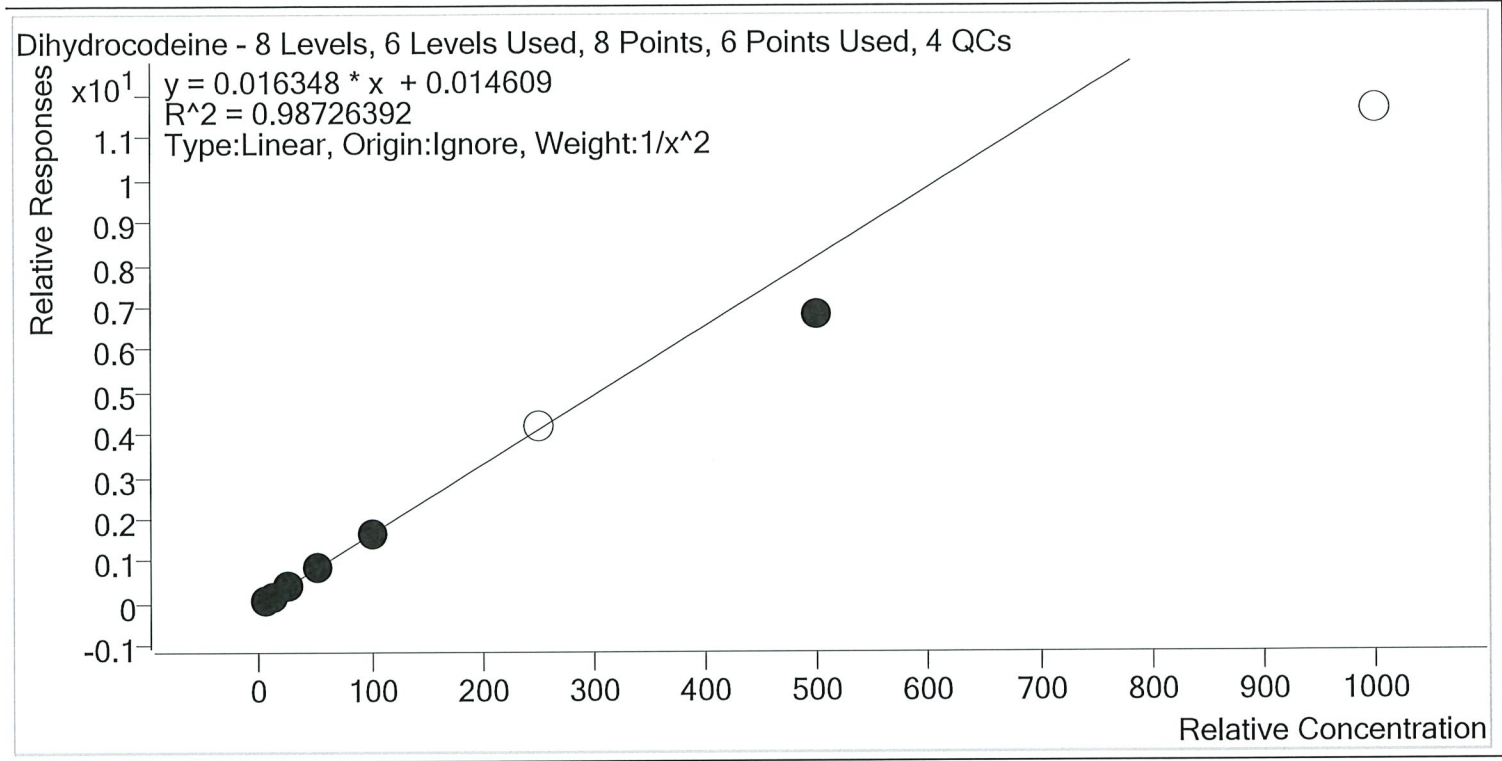


TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.4
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	×	250.0	256.2	102.5
p1 Cal 7-500ng	7	✓	500.0	417.6	83.5
p1 Cal 8-1000ng	8	×	1000.0	711.1	71.1

TS



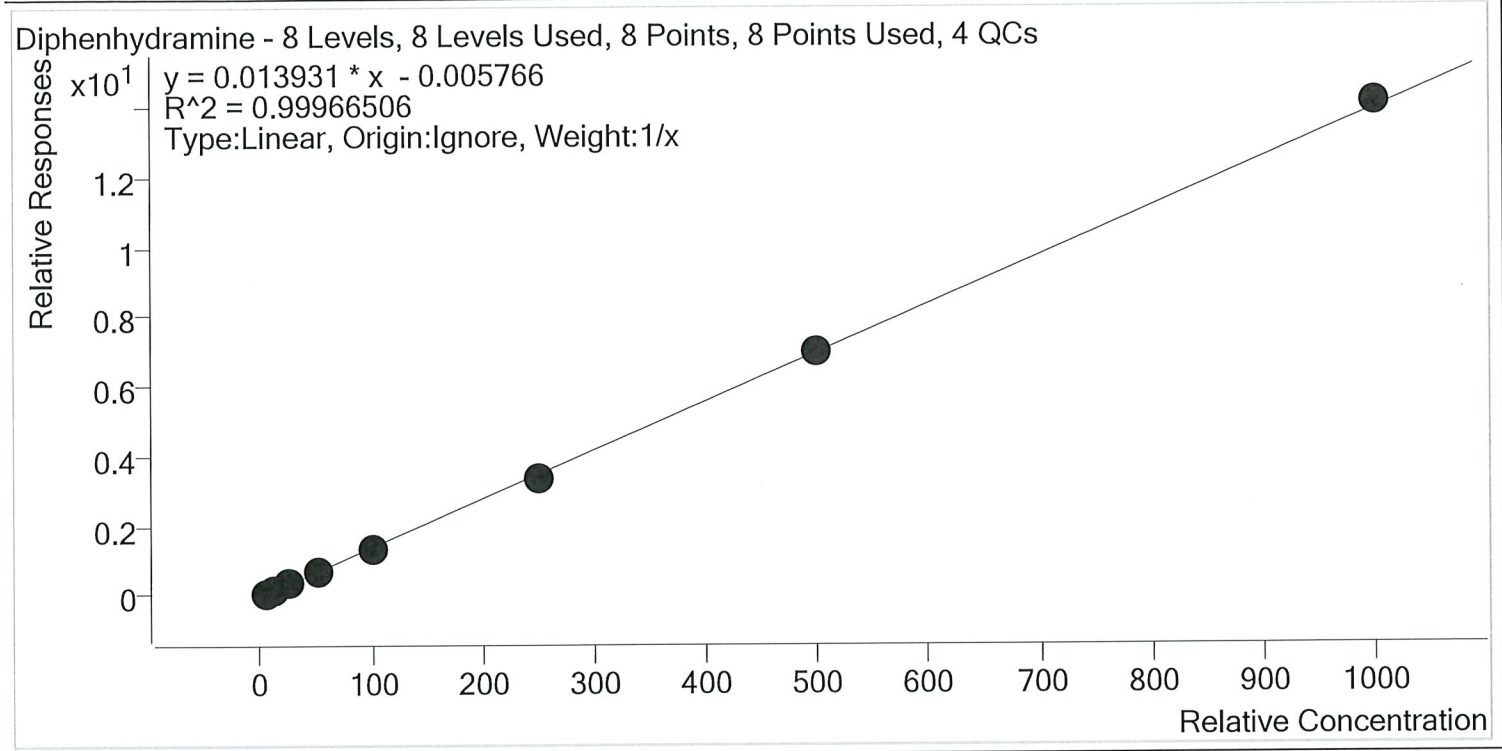
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

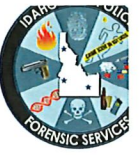
**Analyst Name** ISP\datastor

**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	95.7	95.7
p1 Cal 6-250ng	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng	7	✓	500.0	498.0	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1013.2	101.3

TS



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

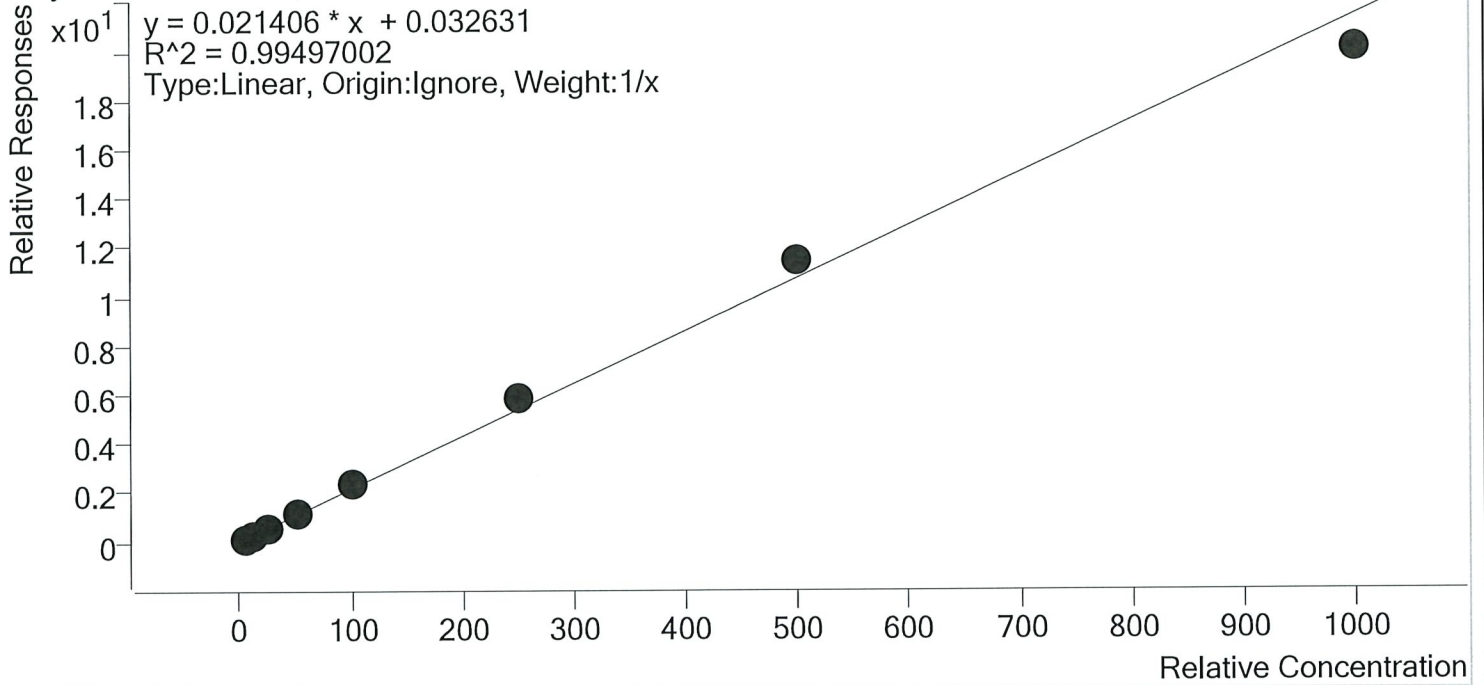
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



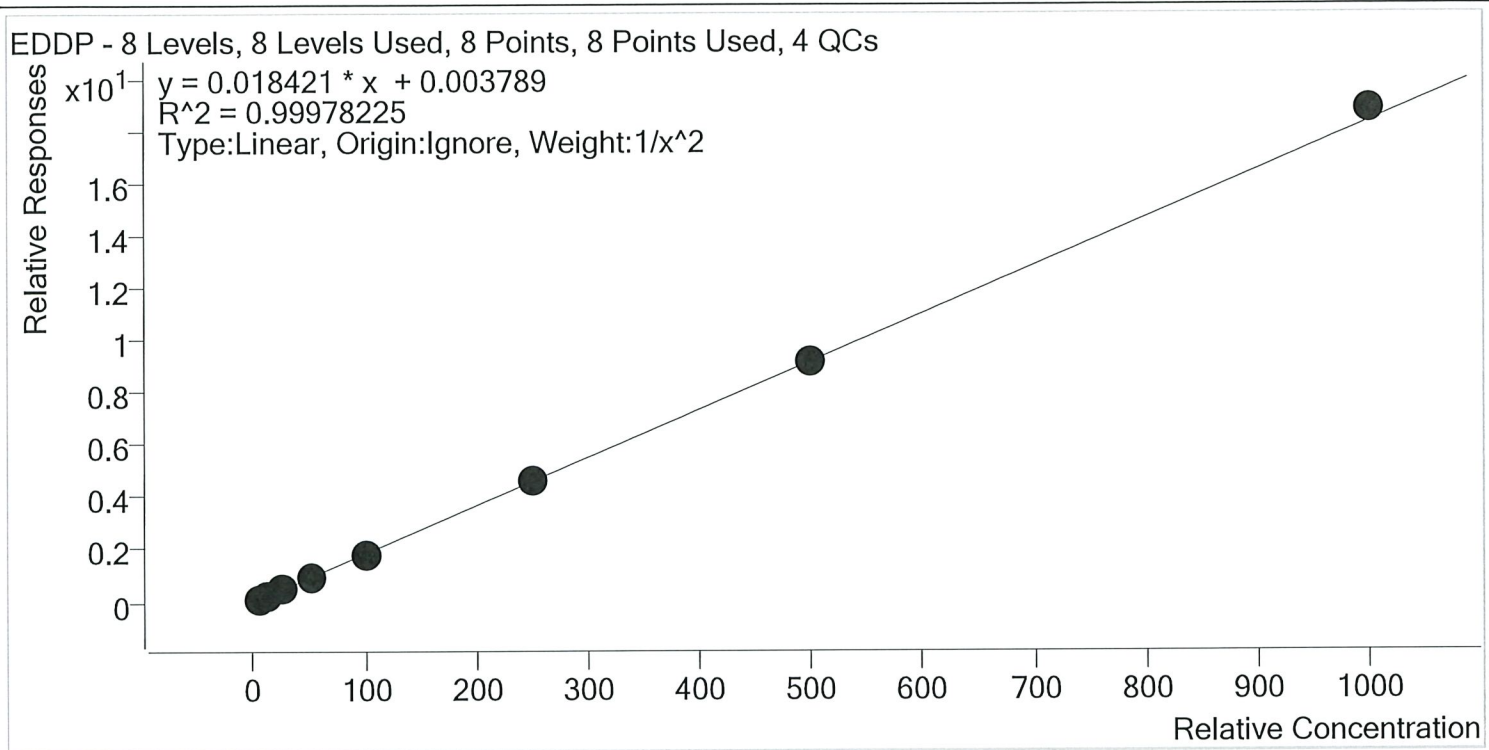
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.0	80.8
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.0
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.9
p1 Cal 4-50ng	4	✓	50.0	53.7	107.3
p1 Cal 5-100ng	5	✓	100.0	106.4	106.4
p1 Cal 6-250ng	6	✓	250.0	270.1	108.0
p1 Cal 7-500ng	7	✓	500.0	534.5	106.9
p1 Cal 8-1000ng	8	✓	1000.0	936.3	93.6

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3



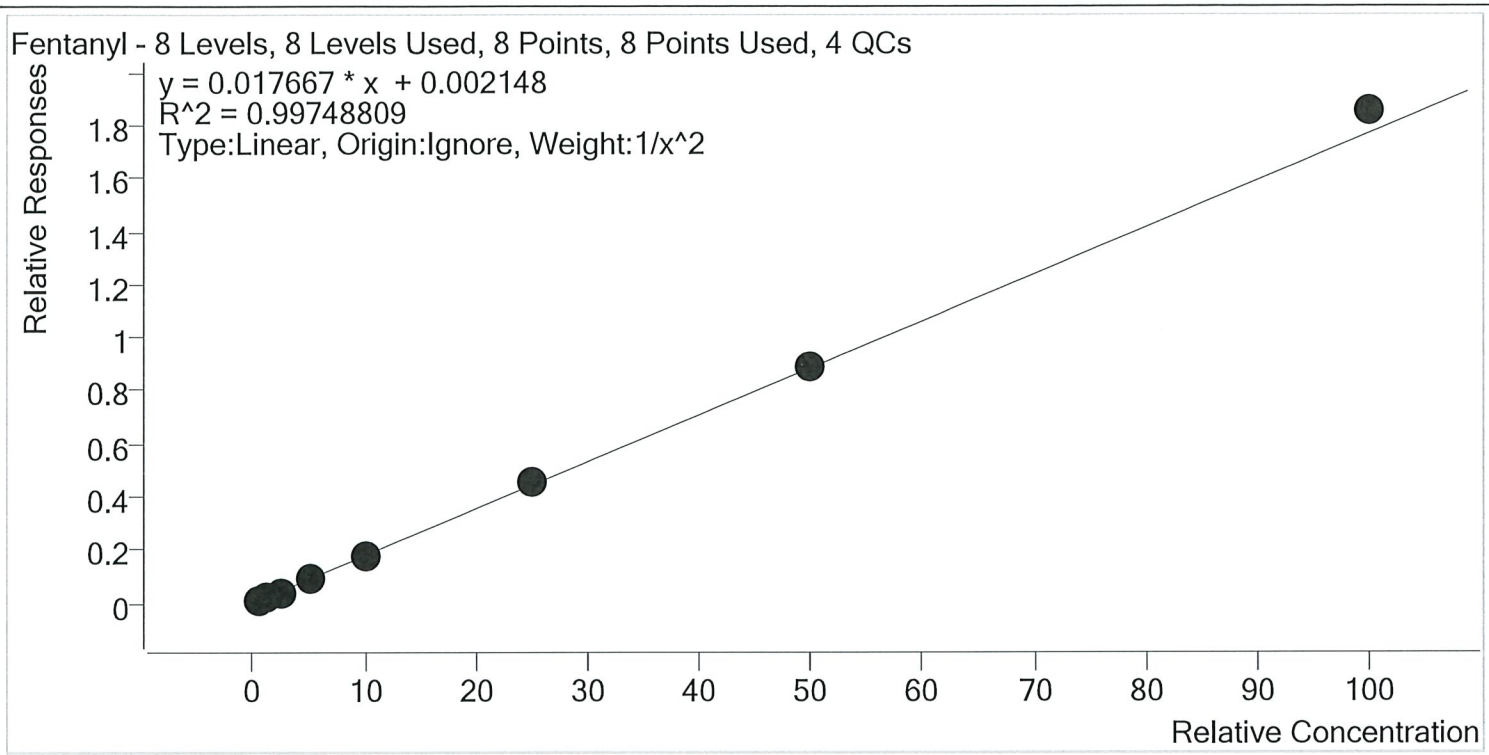
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	499.8	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1025.5	102.6

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5



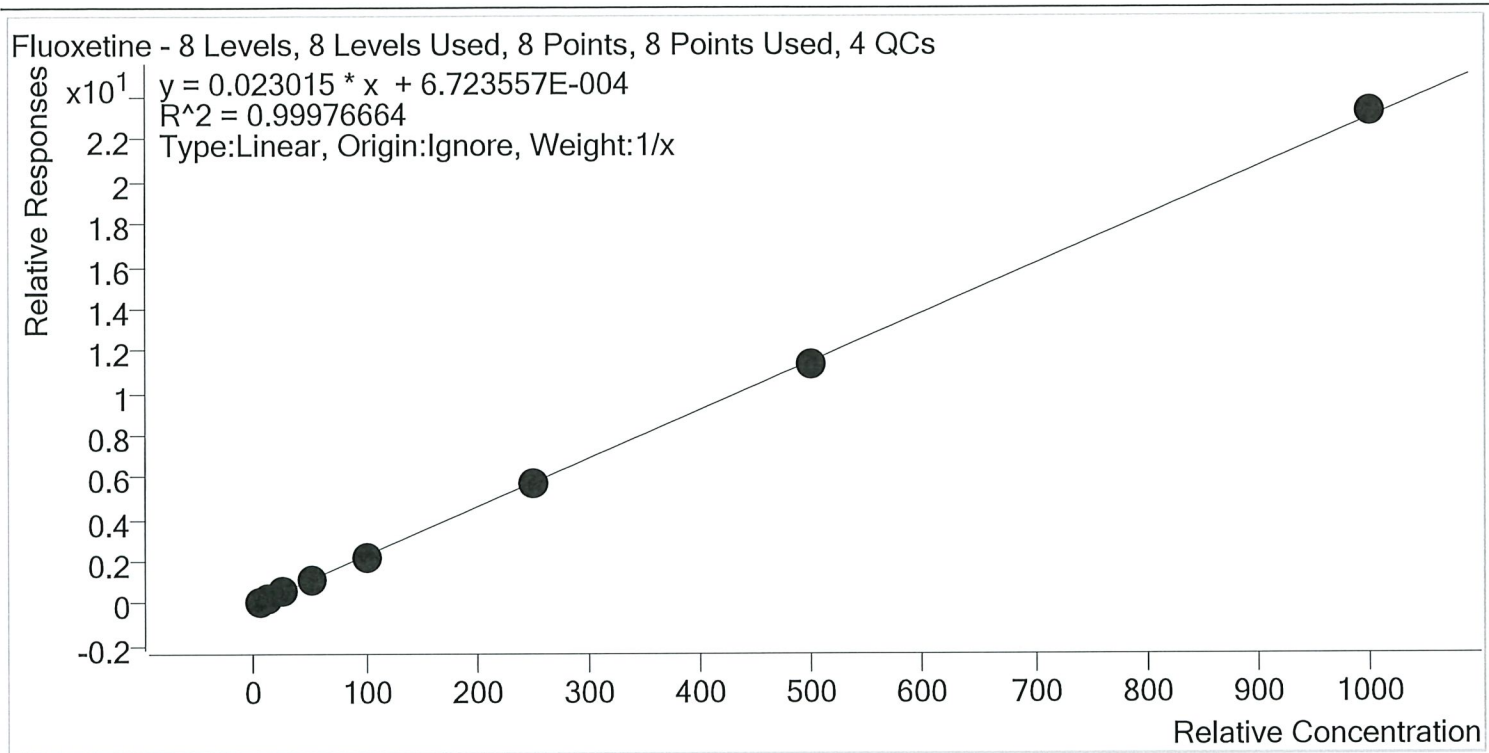
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.6
p1 Cal 2- 10ng	2	✓	1.0	0.9	92.6
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.7
p1 Cal 4-50ng	4	✓	5.0	5.1	101.2
p1 Cal 5-100ng	5	✓	10.0	10.0	99.6
p1 Cal 6-250ng	6	✓	25.0	25.5	102.2
p1 Cal 7-500ng	7	✓	50.0	50.2	100.3
p1 Cal 8-1000ng	8	✓	100.0	104.8	104.8

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	50.7	101.3
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2

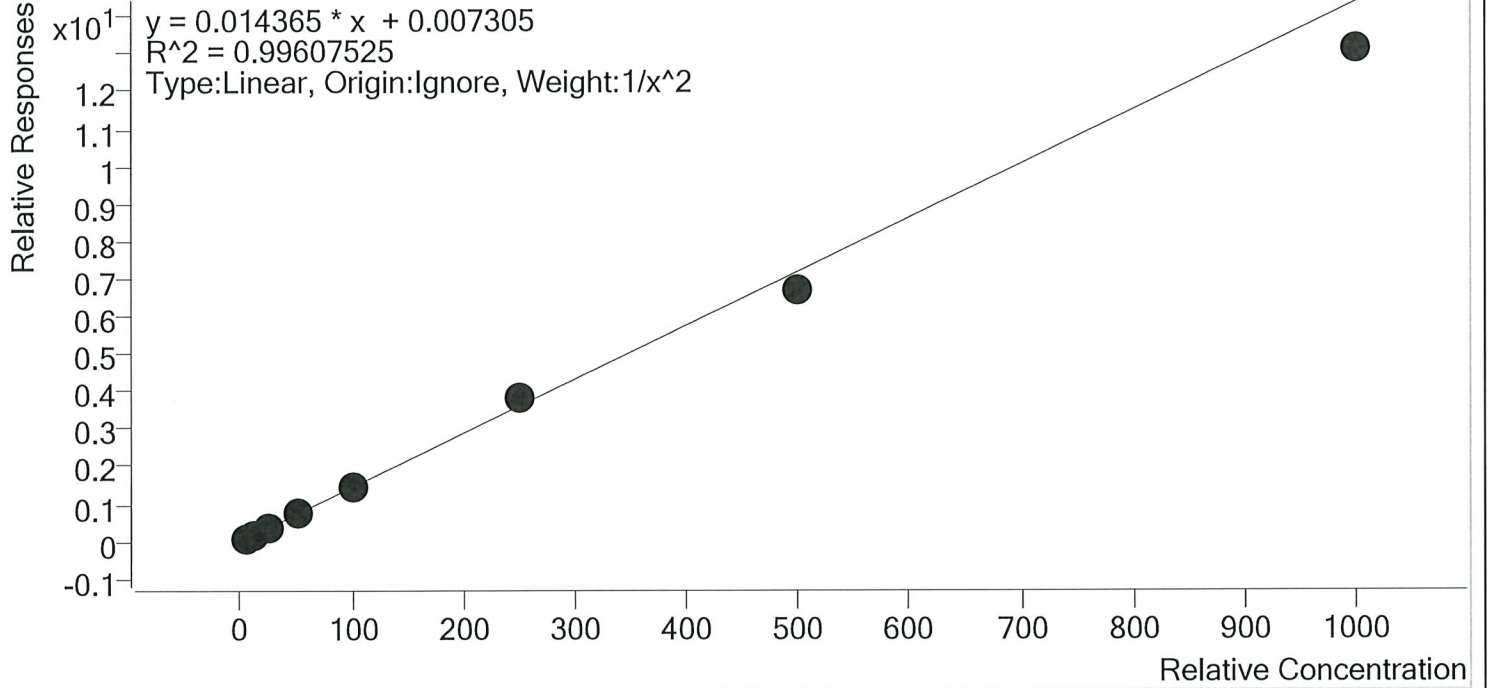


TS

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.1
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	266.9	106.7
p1 Cal 7-500ng	7	✓	500.0	467.8	93.6
p1 Cal 8-1000ng	8	✓	1000.0	912.4	91.2



TS

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

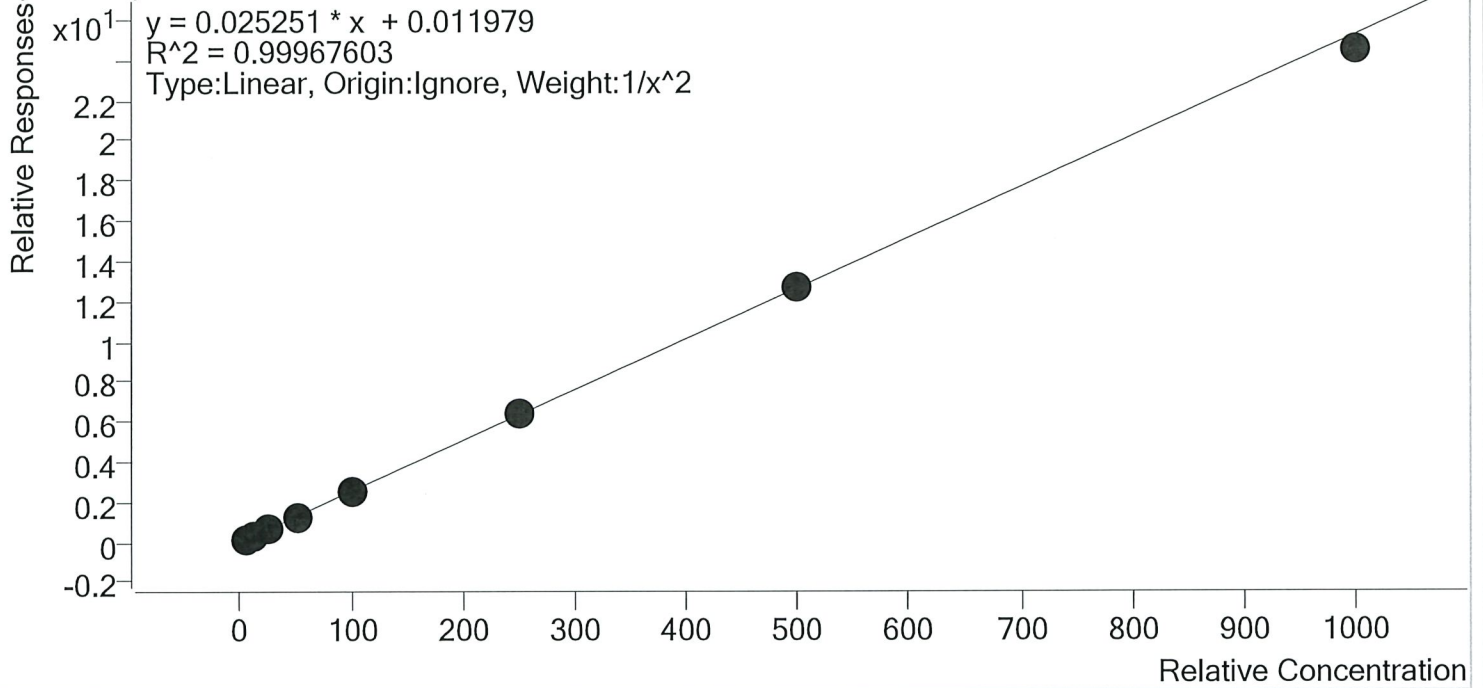
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**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	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.6
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	254.3	101.7
p1 Cal 7-500ng	7	✓	500.0	501.2	100.2
p1 Cal 8-1000ng	8	✓	1000.0	969.7	97.0



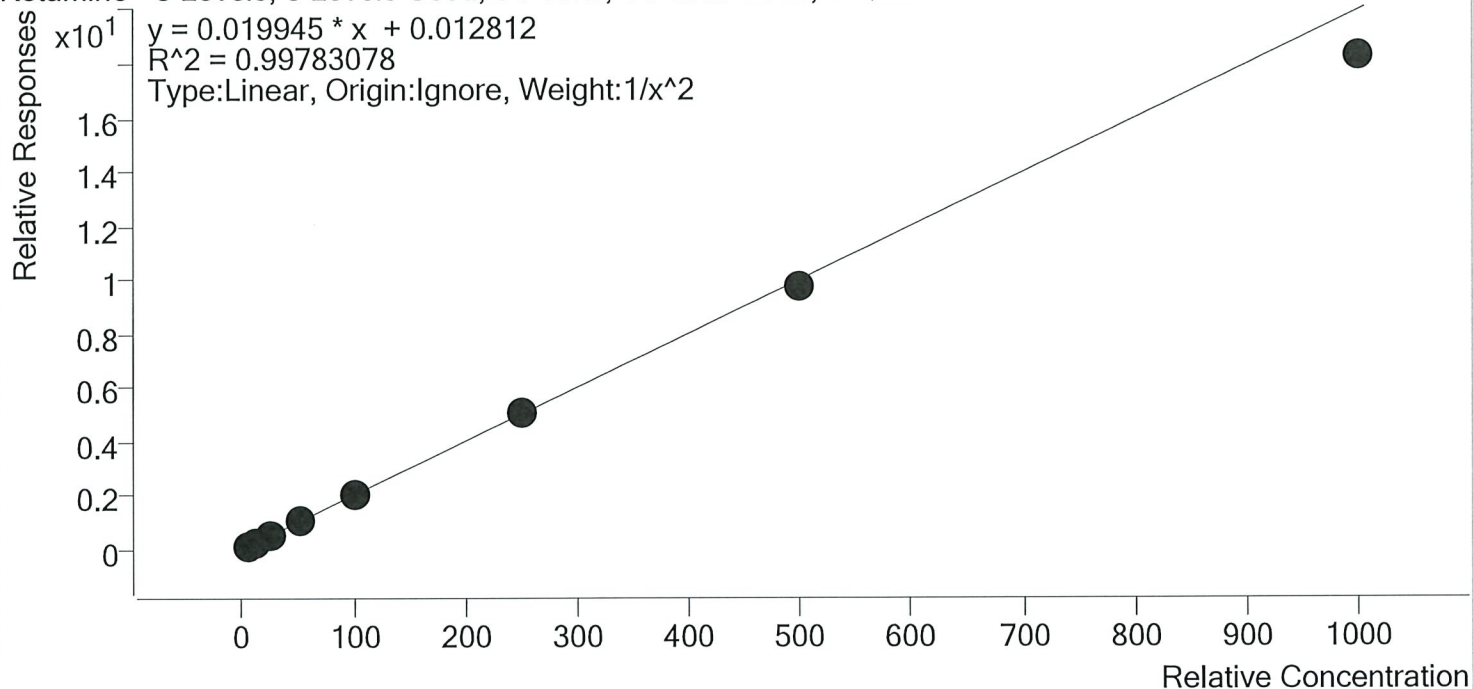
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**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	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng	4	✓	50.0	52.2	104.4
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	255.0	102.0
p1 Cal 7-500ng	7	✓	500.0	490.3	98.1
p1 Cal 8-1000ng	8	✓	1000.0	914.6	91.5



TS

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

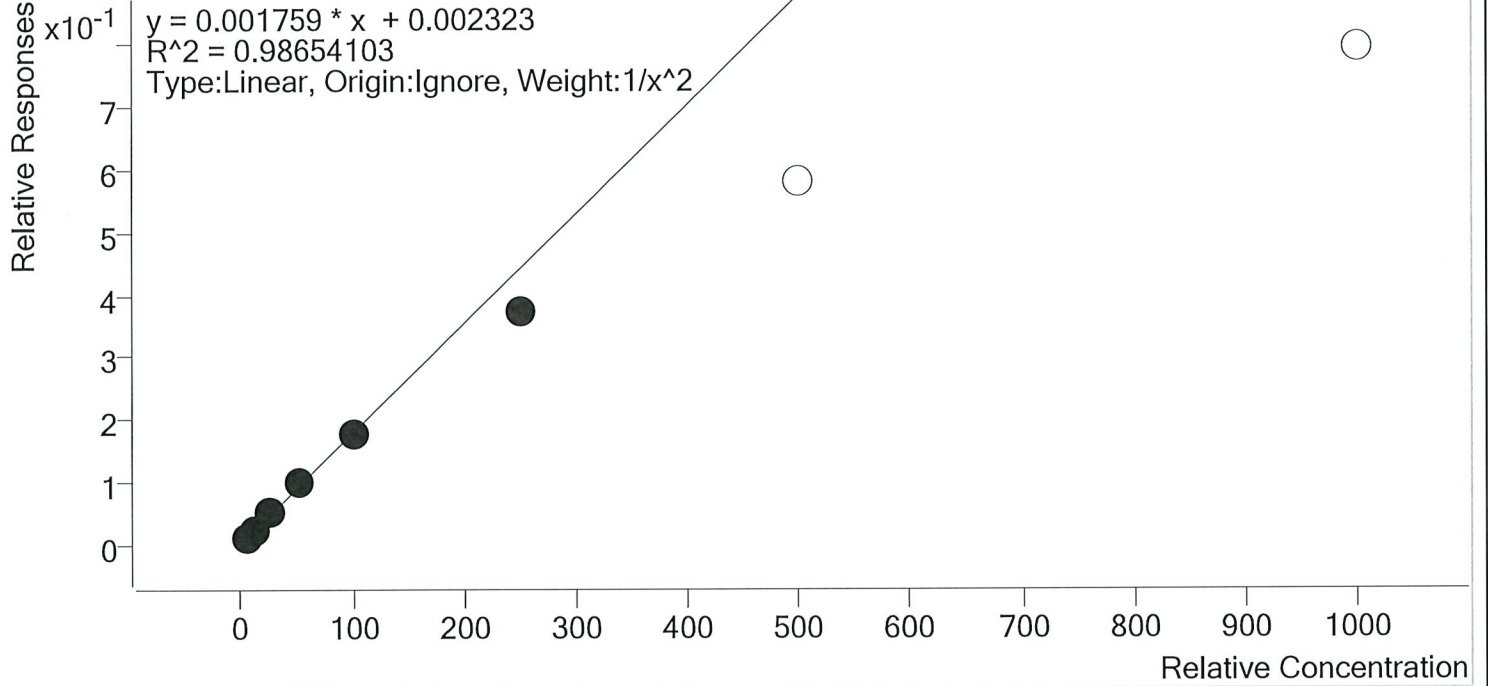
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

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

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.2
p1 Cal 4-50ng	4	✓	50.0	53.8	107.5
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	210.6	84.3
p1 Cal 7-500ng	7	×	500.0	330.9	66.2
p1 Cal 8-1000ng	8	×	1000.0	451.2	45.1



TS

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

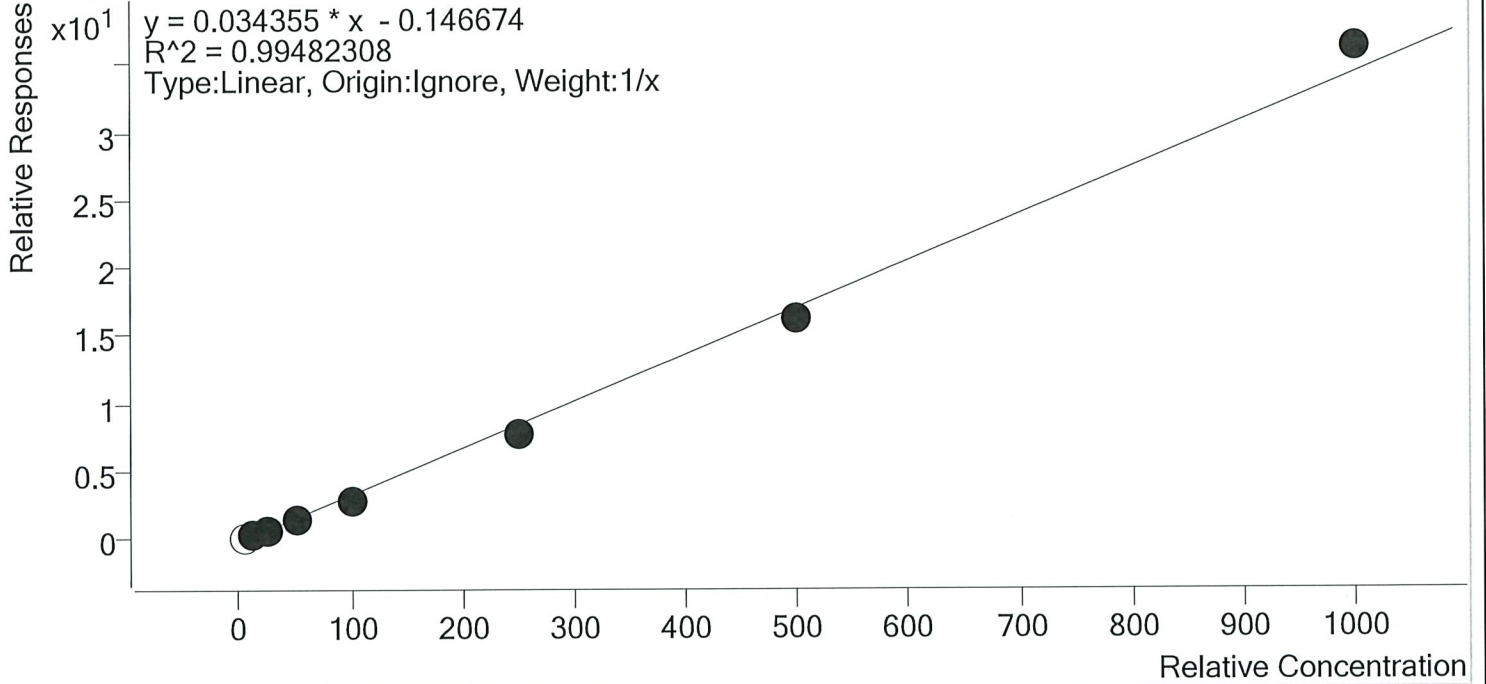
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

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



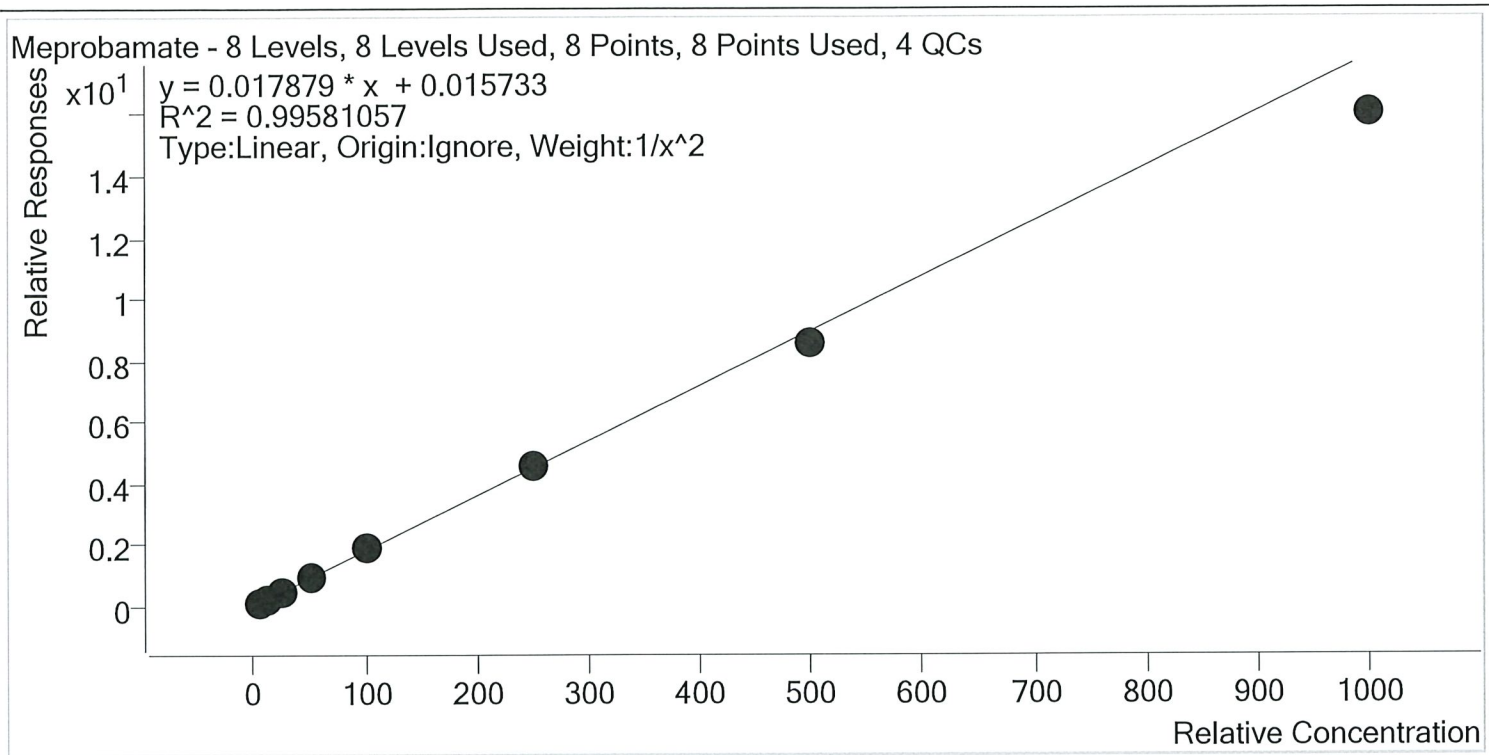
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	8.5	169.7
p1 Cal 2- 10ng	2	✓	10.0	12.8	127.7
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	46.1	92.1
p1 Cal 5-100ng	5	✓	100.0	84.9	84.9
p1 Cal 6-250ng	6	✓	250.0	231.8	92.7
p1 Cal 7-500ng	7	✓	500.0	479.0	95.8
p1 Cal 8-1000ng	8	✓	1000.0	1055.2	105.5

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.2
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	53.5	107.0
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	480.1	96.0
p1 Cal 8-1000ng	8	✓	1000.0	896.0	89.6

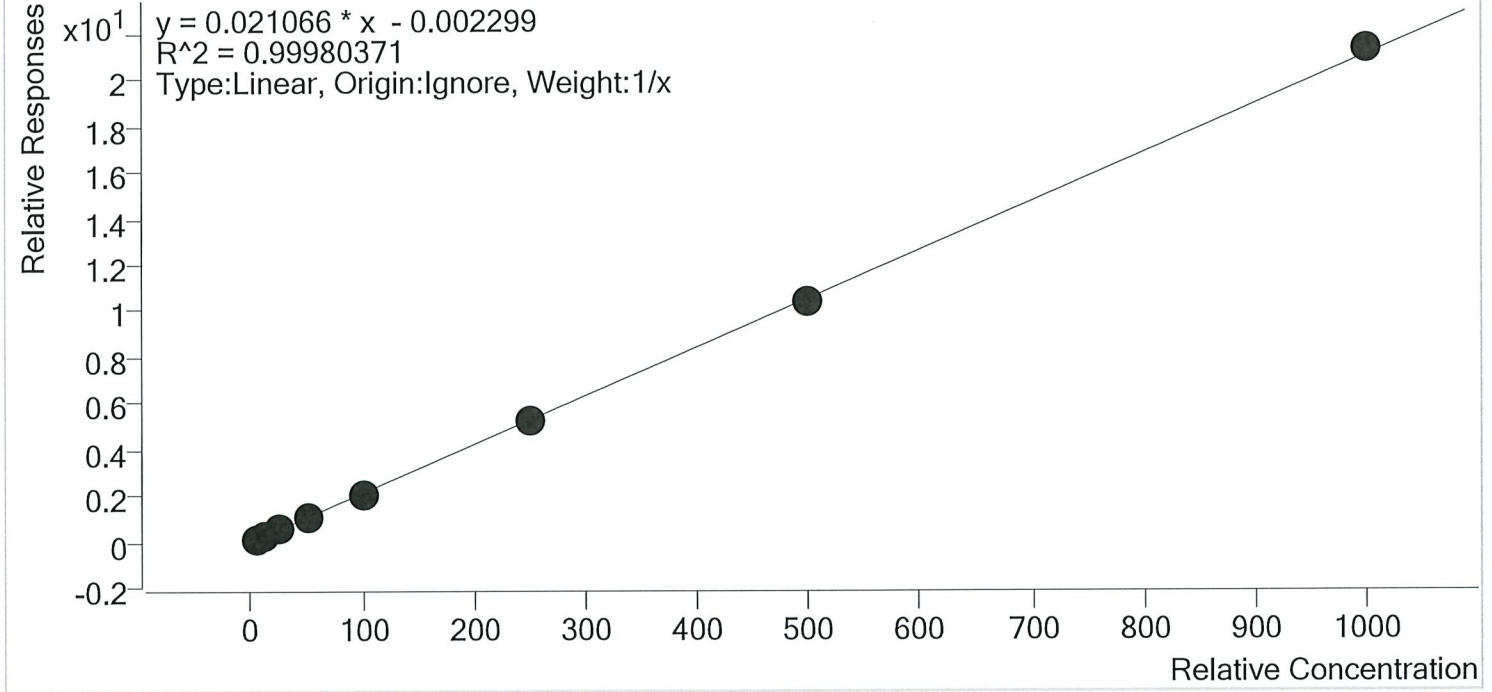
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**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	5.2	105.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	494.0	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1012.2	101.2



TS

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

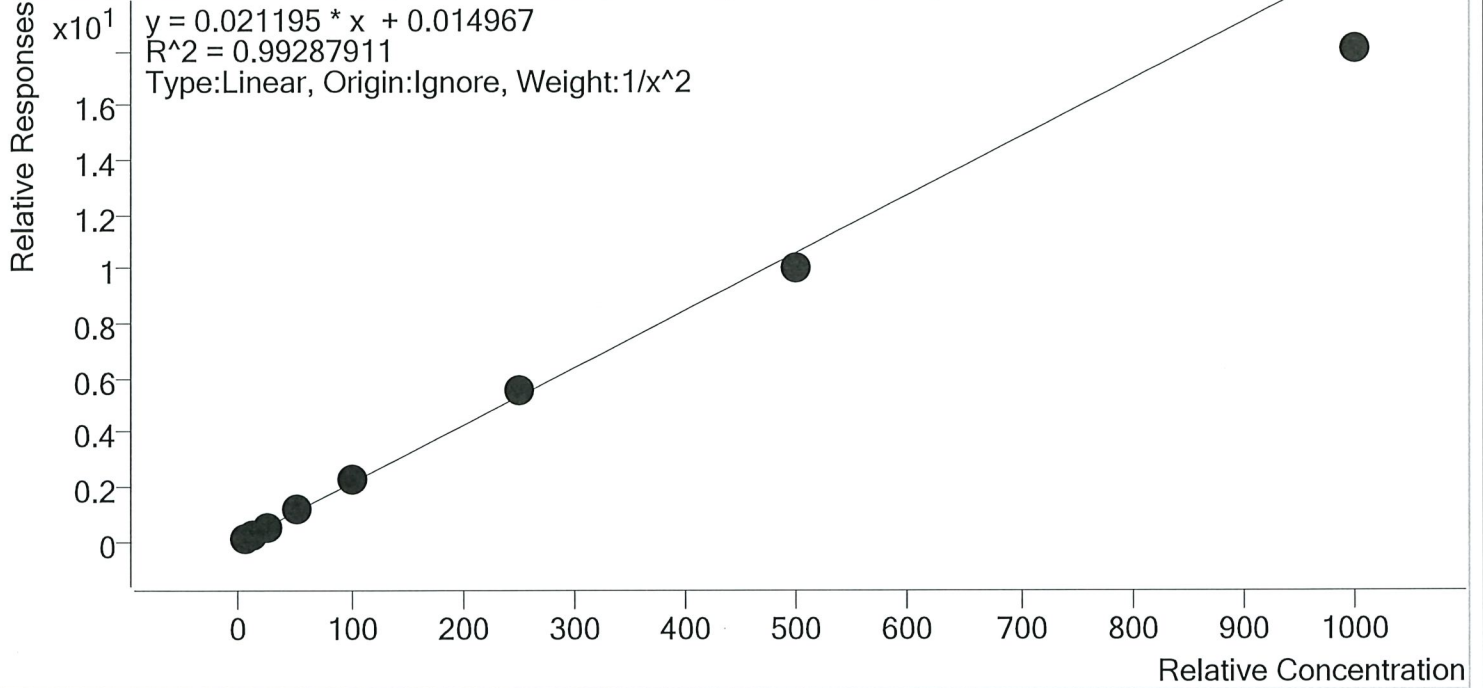
**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

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



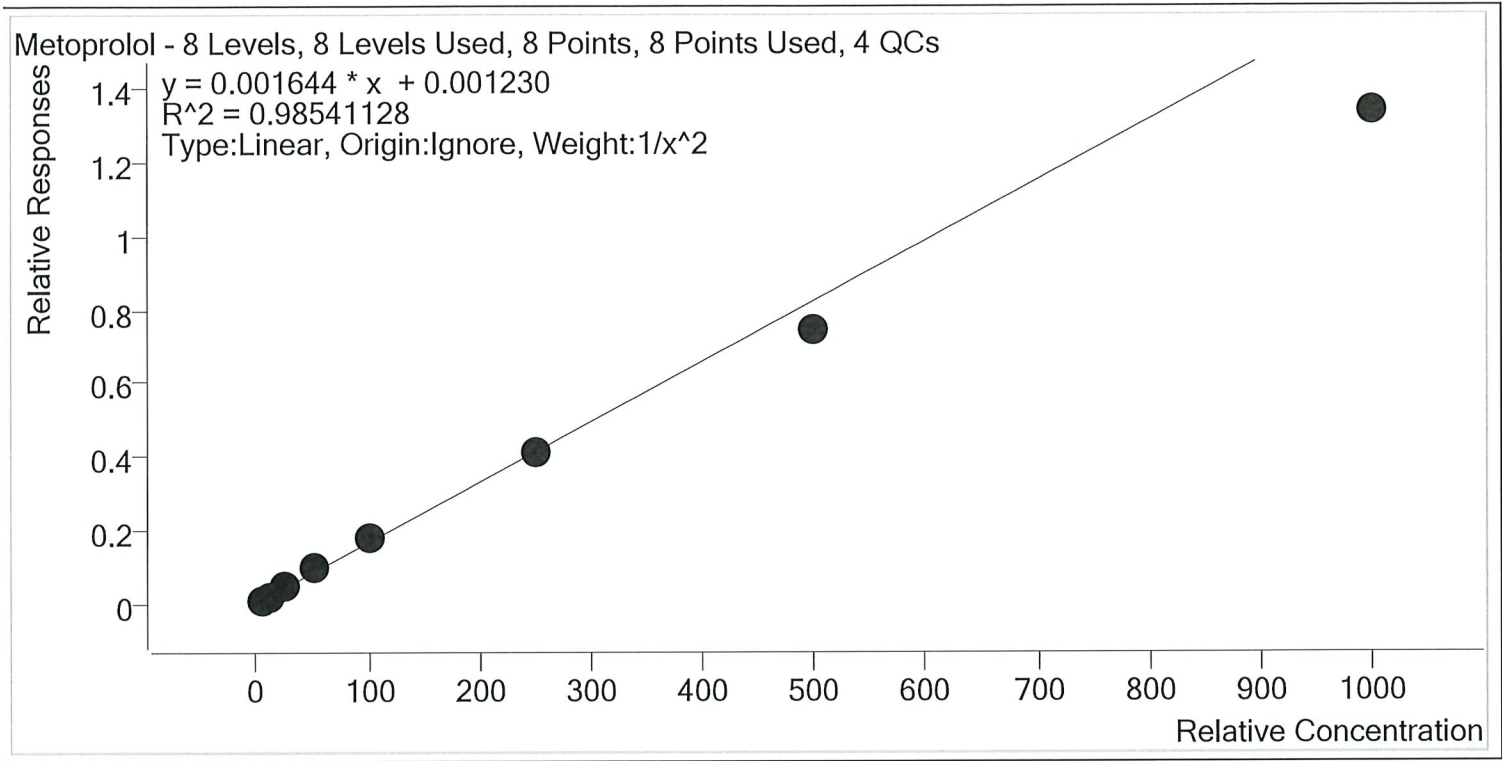
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	54.3	108.6
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	258.8	103.5
p1 Cal 7-500ng	7	✓	500.0	475.0	95.0
p1 Cal 8-1000ng	8	✓	1000.0	852.1	85.2

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklist 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.6
p1 Cal 4-50ng	4	✓	50.0	56.2	112.4
p1 Cal 5-100ng	5	✓	100.0	109.6	109.6
p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng	7	✓	500.0	452.1	90.4
p1 Cal 8-1000ng	8	✓	1000.0	814.0	81.4

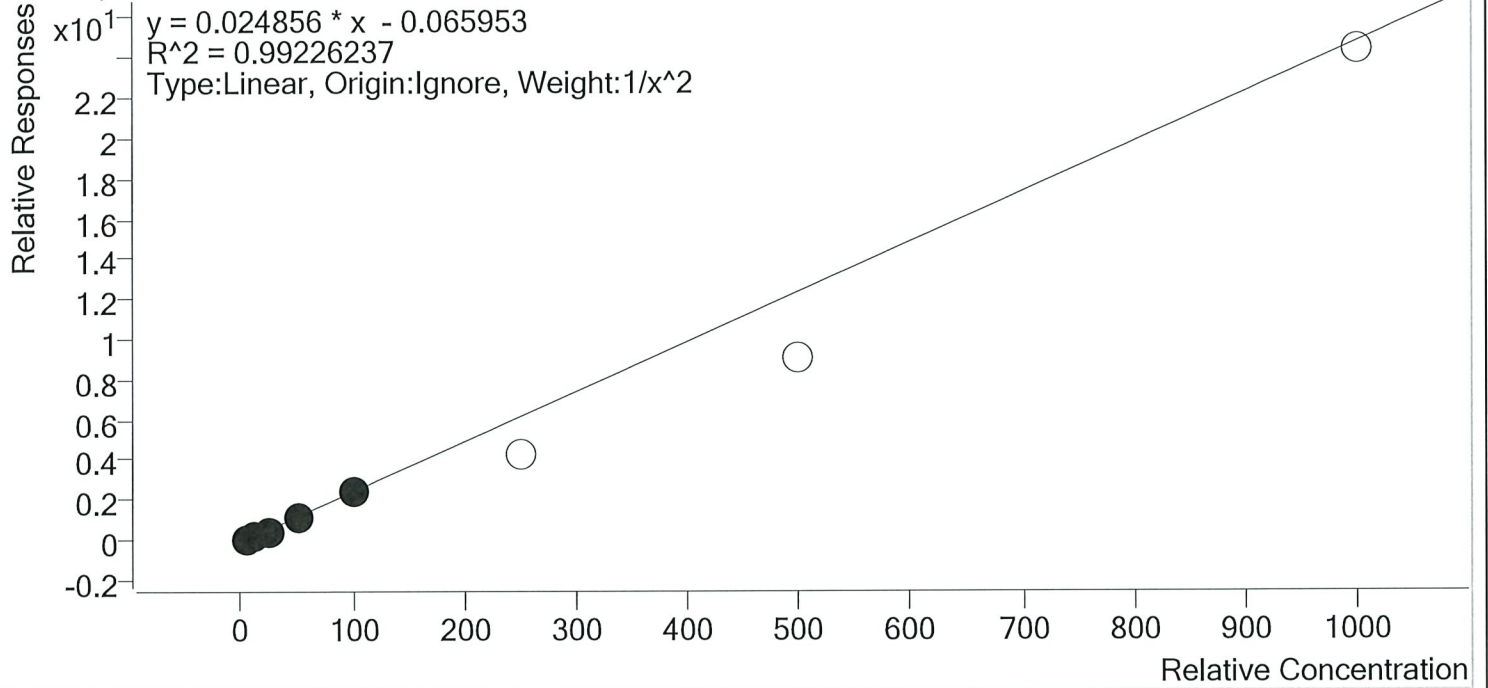


TS

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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 Analyst Name ISP\datastor  
 Analyte Mirtazapine Internal Standard alpha-PVP-d8

Mirtazapine - 8 Levels, 5 Levels Used, 8 Points, 5 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	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	22.1	88.4
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	×	250.0	175.4	70.2
p1 Cal 7-500ng	7	×	500.0	367.1	73.4
p1 Cal 8-1000ng	8	×	1000.0	983.5	98.3

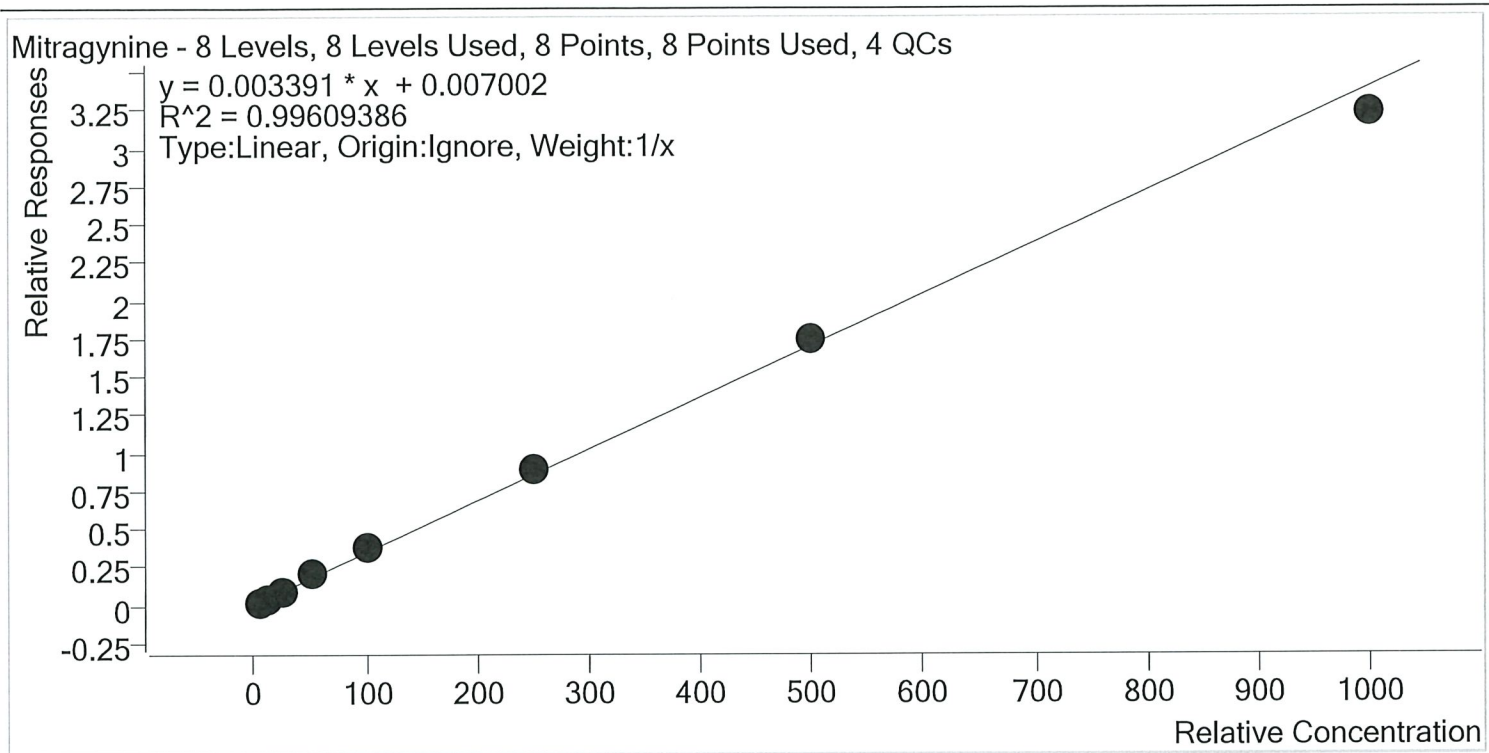


TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9



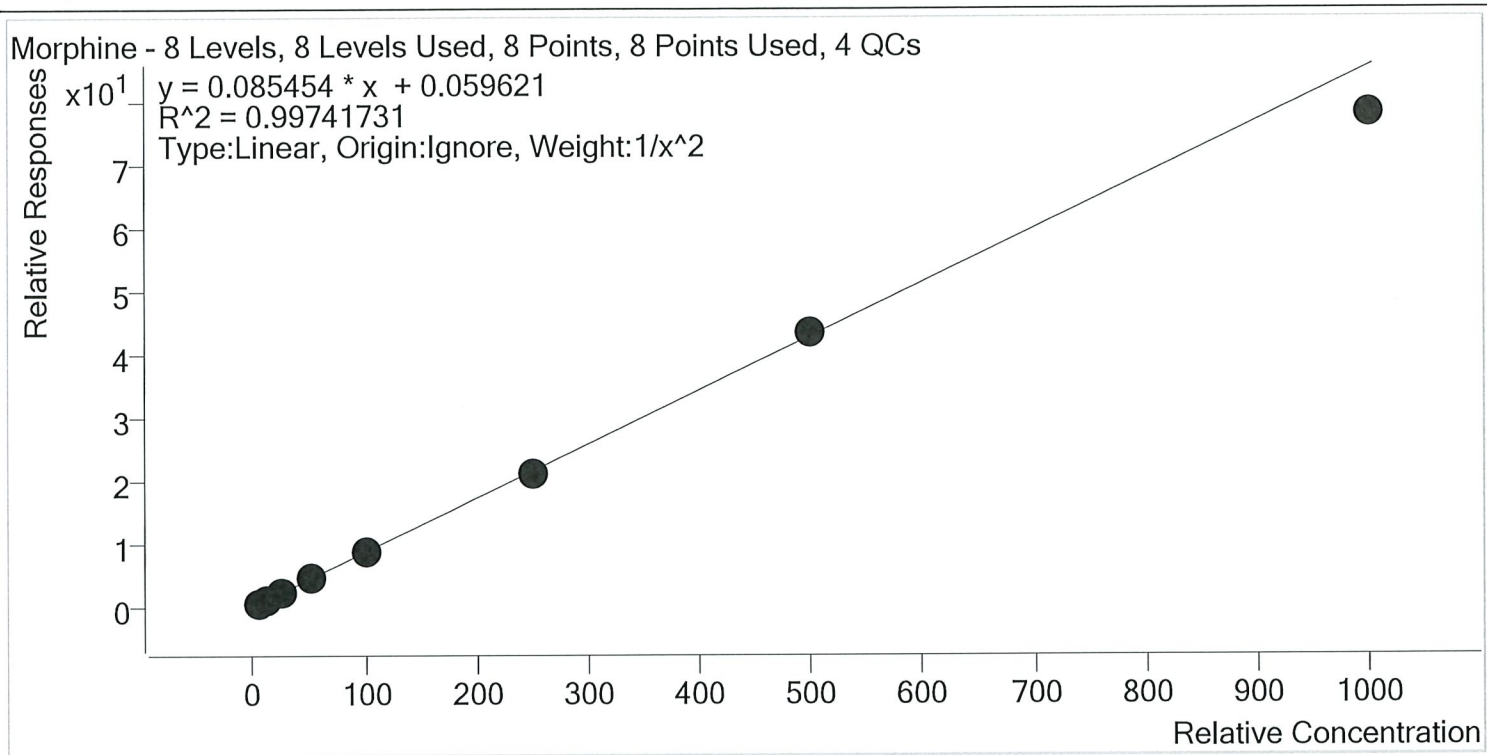
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.3	65.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.5
p1 Cal 4-50ng	4	✓	50.0	58.0	116.1
p1 Cal 5-100ng	5	✓	100.0	110.8	110.8
p1 Cal 6-250ng	6	✓	250.0	264.3	105.7
p1 Cal 7-500ng	7	✓	500.0	516.5	103.3
p1 Cal 8-1000ng	8	✓	1000.0	950.8	95.1

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6



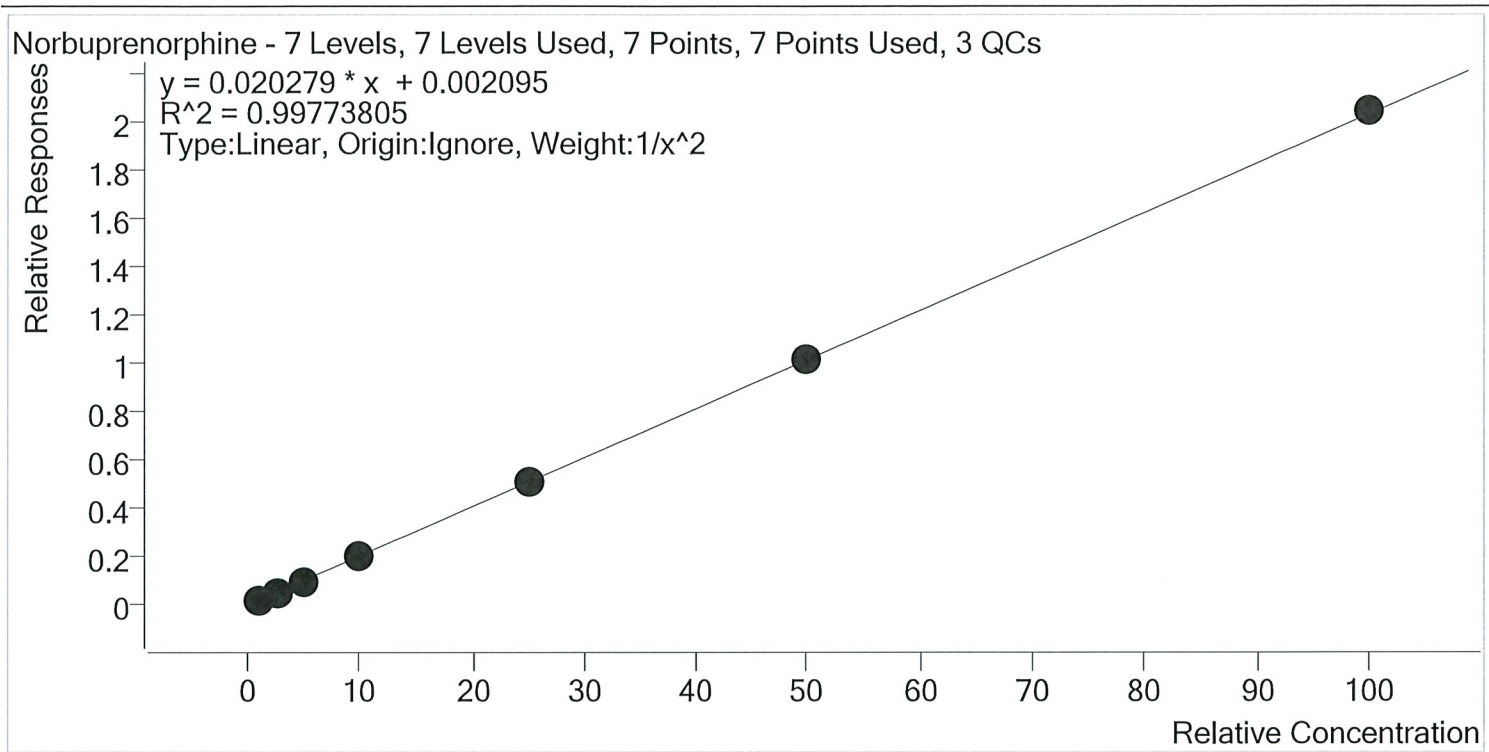
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng	4	✓	50.0	52.7	105.3
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	243.1	97.2
p1 Cal 7-500ng	7	✓	500.0	503.7	100.7
p1 Cal 8-1000ng	8	✓	1000.0	912.4	91.2

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



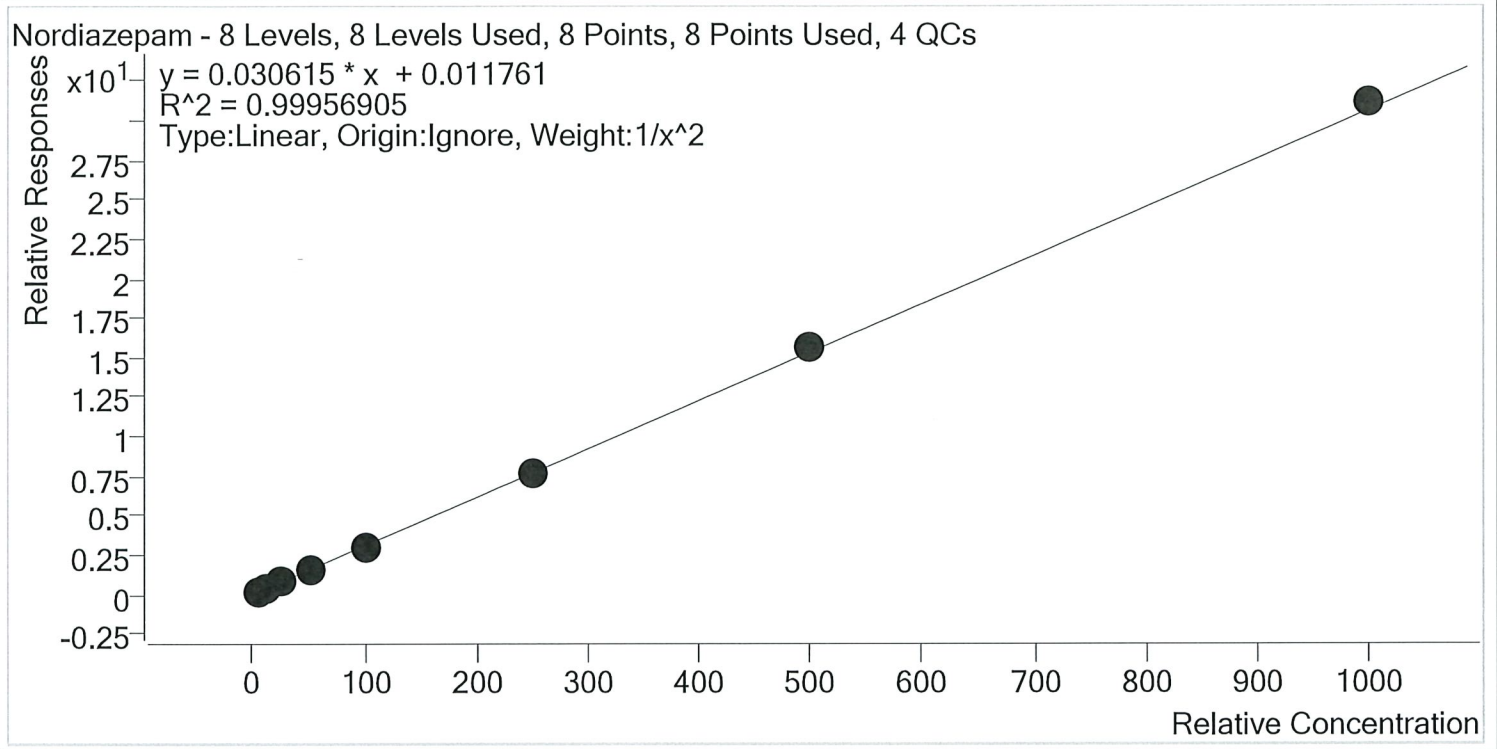
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.4
p1 Cal 3 -25ng	3	✓	2.5	2.7	108.8
p1 Cal 4-50ng	4	✓	5.0	4.8	96.9
p1 Cal 5-100ng	5	✓	10.0	9.8	97.6
p1 Cal 6-250ng	6	✓	25.0	24.8	99.1
p1 Cal 7-500ng	7	✓	50.0	49.8	99.5
p1 Cal 8-1000ng	8	✓	100.0	100.6	100.6

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.2
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	248.6	99.4
p1 Cal 7-500ng	7	✓	500.0	511.9	102.4
p1 Cal 8-1000ng	8	✓	1000.0	1016.5	101.6

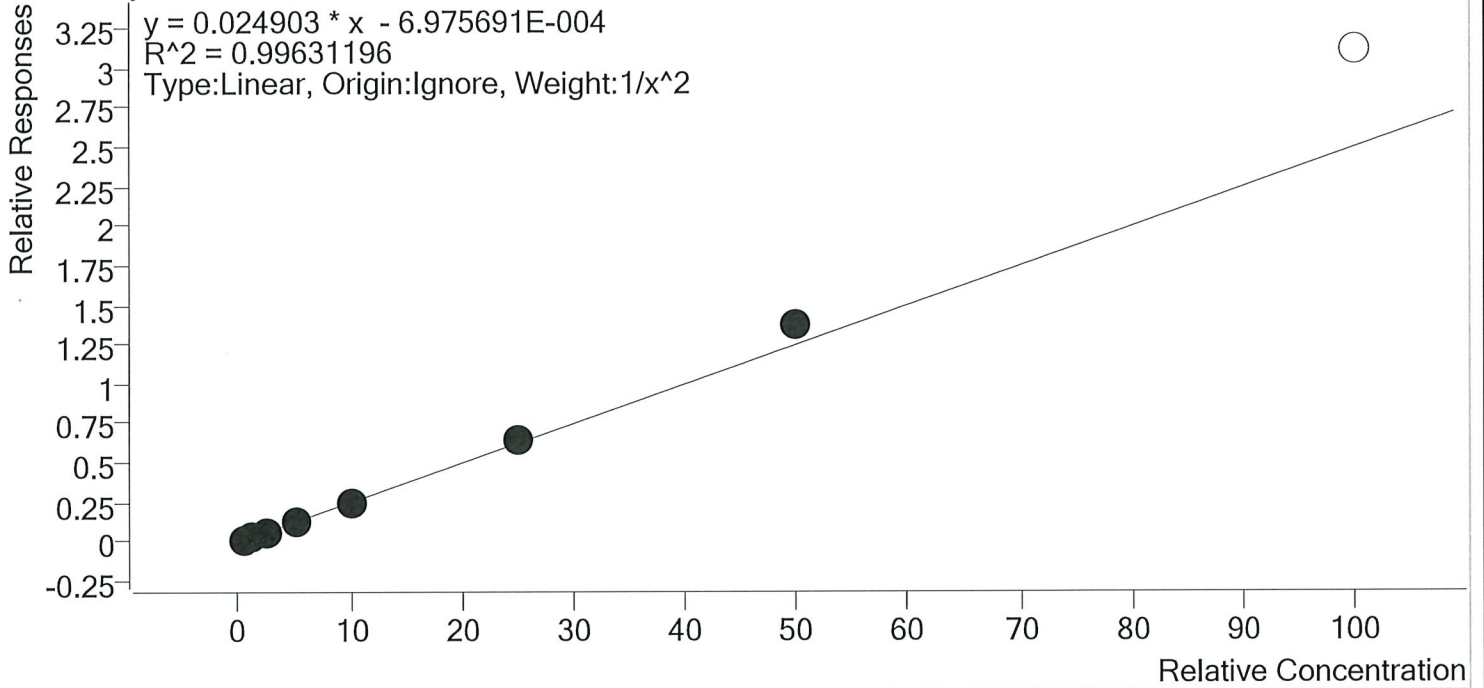
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.8
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.9
p1 Cal 4-50ng	4	✓	5.0	4.8	96.3
p1 Cal 5-100ng	5	✓	10.0	9.7	96.9
p1 Cal 6-250ng	6	✓	25.0	25.7	102.6
p1 Cal 7-500ng	7	✓	50.0	54.6	109.3
p1 Cal 8-1000ng	8	×	100.0	124.8	124.8

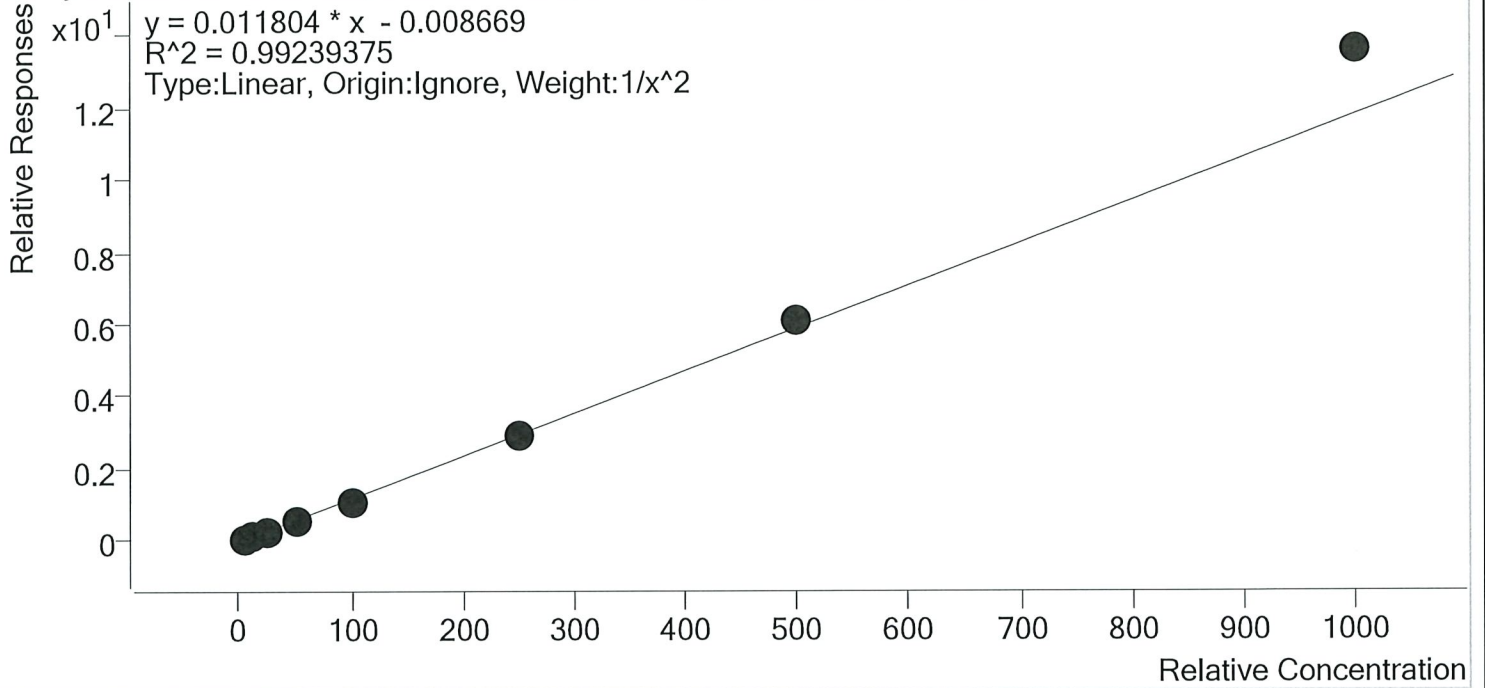
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.6
p1 Cal 2- 10ng	2	✓	10.0	9.5	94.9
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.5
p1 Cal 4-50ng	4	✓	50.0	47.8	95.5
p1 Cal 5-100ng	5	✓	100.0	93.7	93.7
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	522.2	104.4
p1 Cal 8-1000ng	8	✓	1000.0	1152.4	115.2



TS

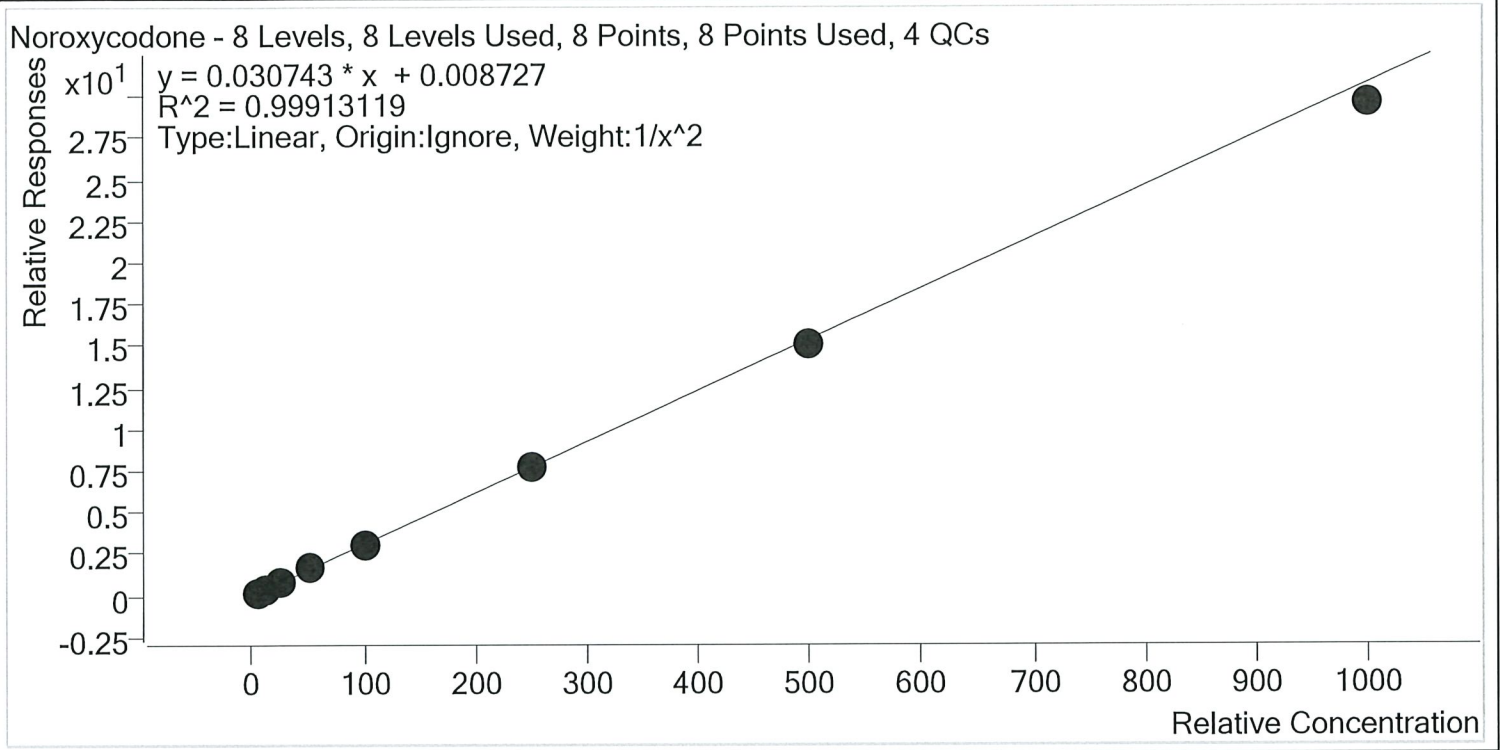
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	487.9	97.6
p1 Cal 8-1000ng	8	✓	1000.0	960.9	96.1

TS



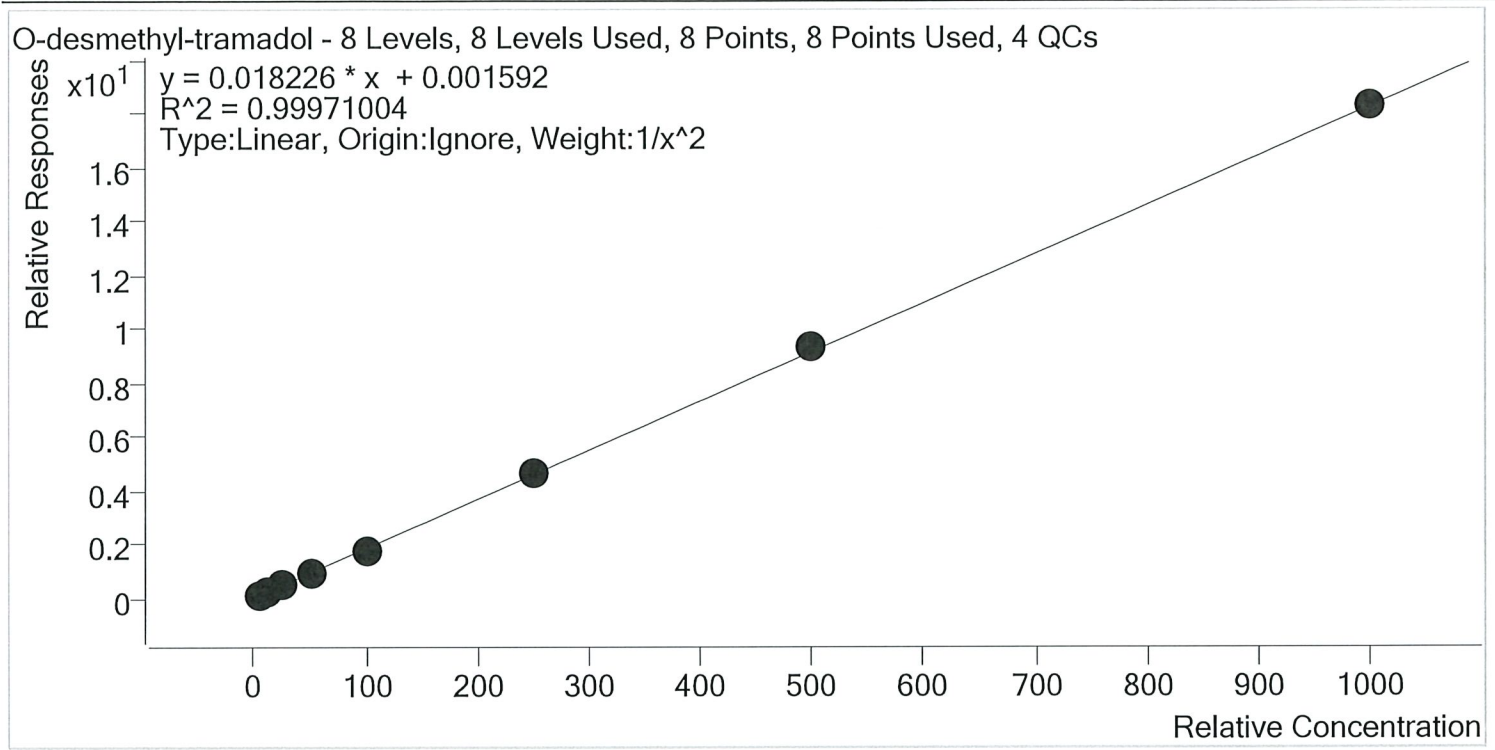
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	508.6	101.7
p1 Cal 8-1000ng	8	✓	1000.0	1001.9	100.2

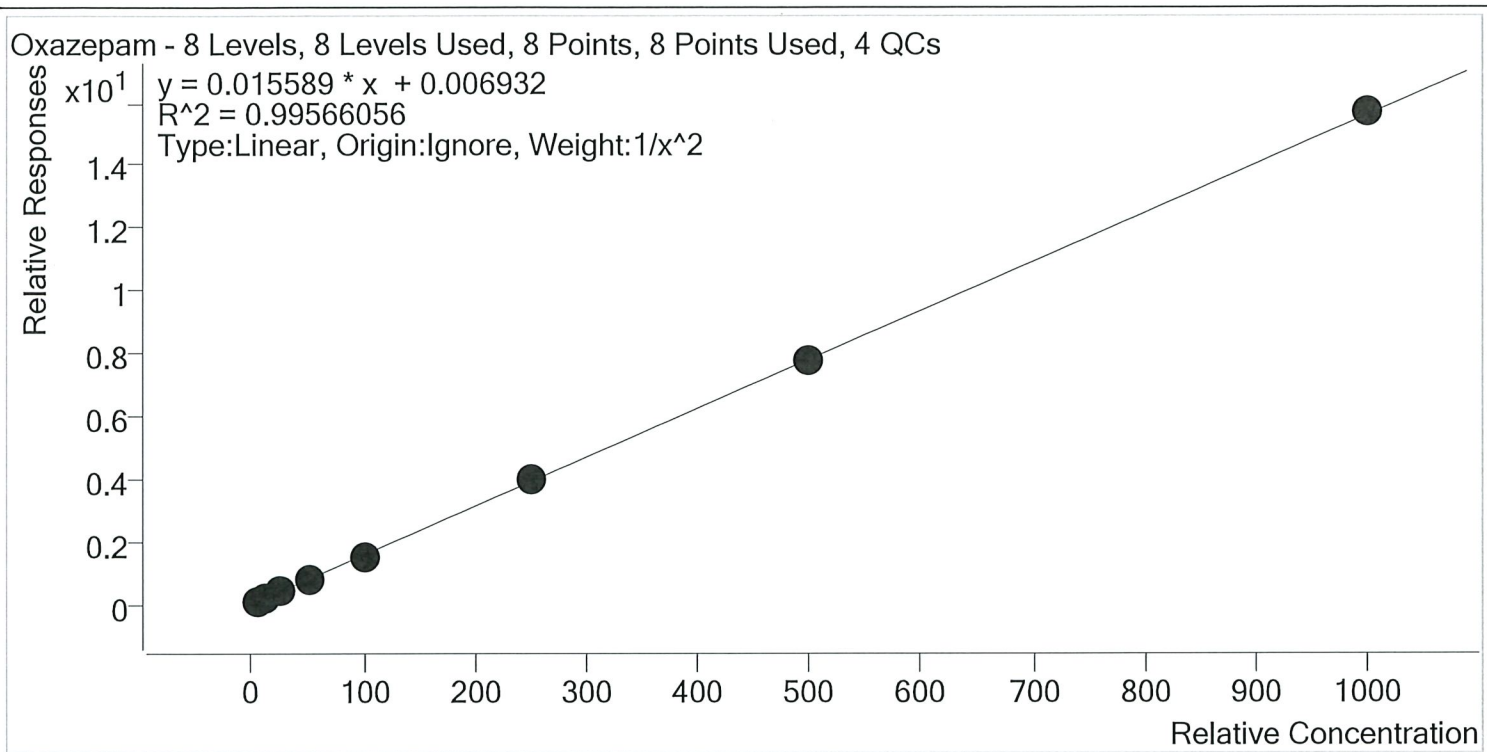


TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5



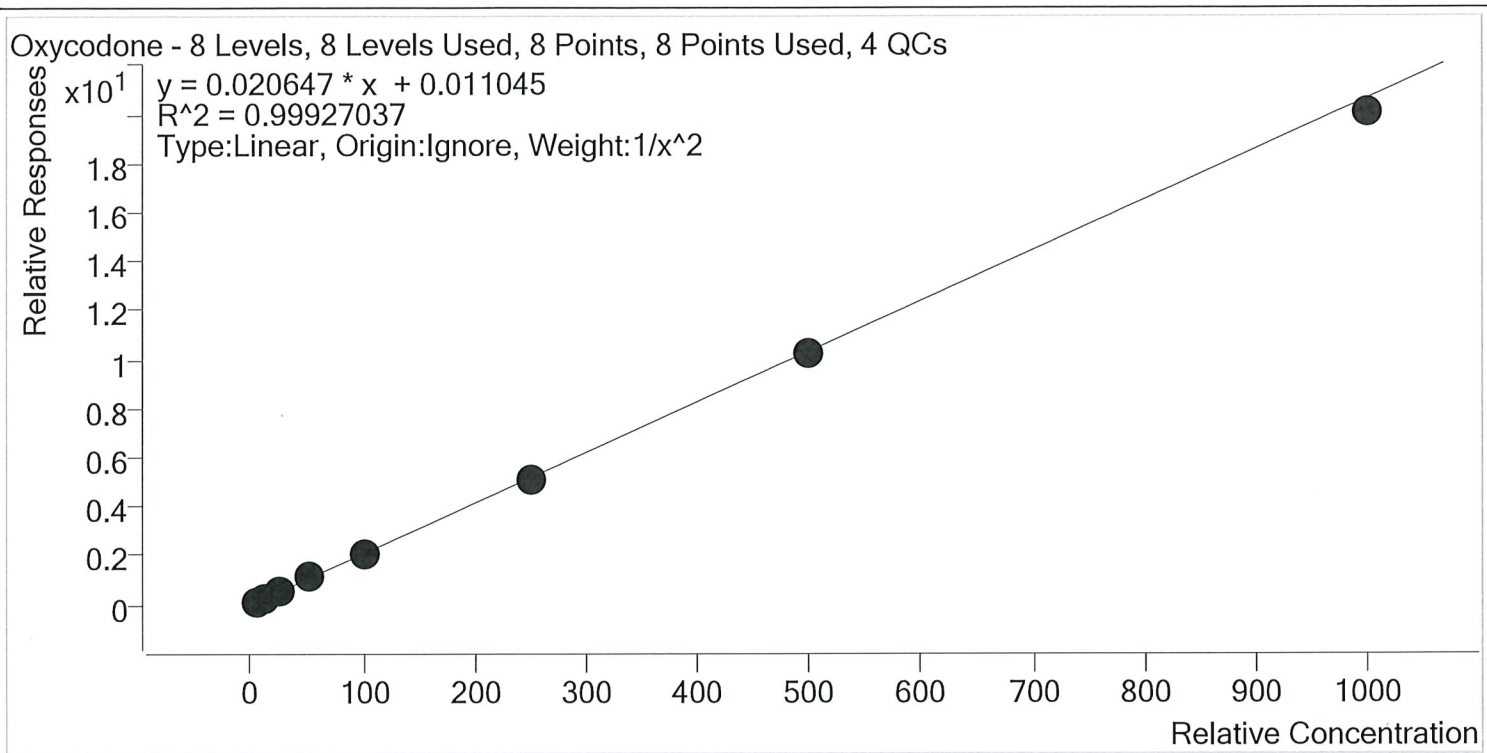
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.7
p1 Cal 2- 10ng	2	✓	10.0	8.8	87.9
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	253.9	101.6
p1 Cal 7-500ng	7	✓	500.0	496.7	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1006.0	100.6

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	51.9	103.7
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	244.8	97.9
p1 Cal 7-500ng	7	✓	500.0	493.8	98.8
p1 Cal 8-1000ng	8	✓	1000.0	971.7	97.2

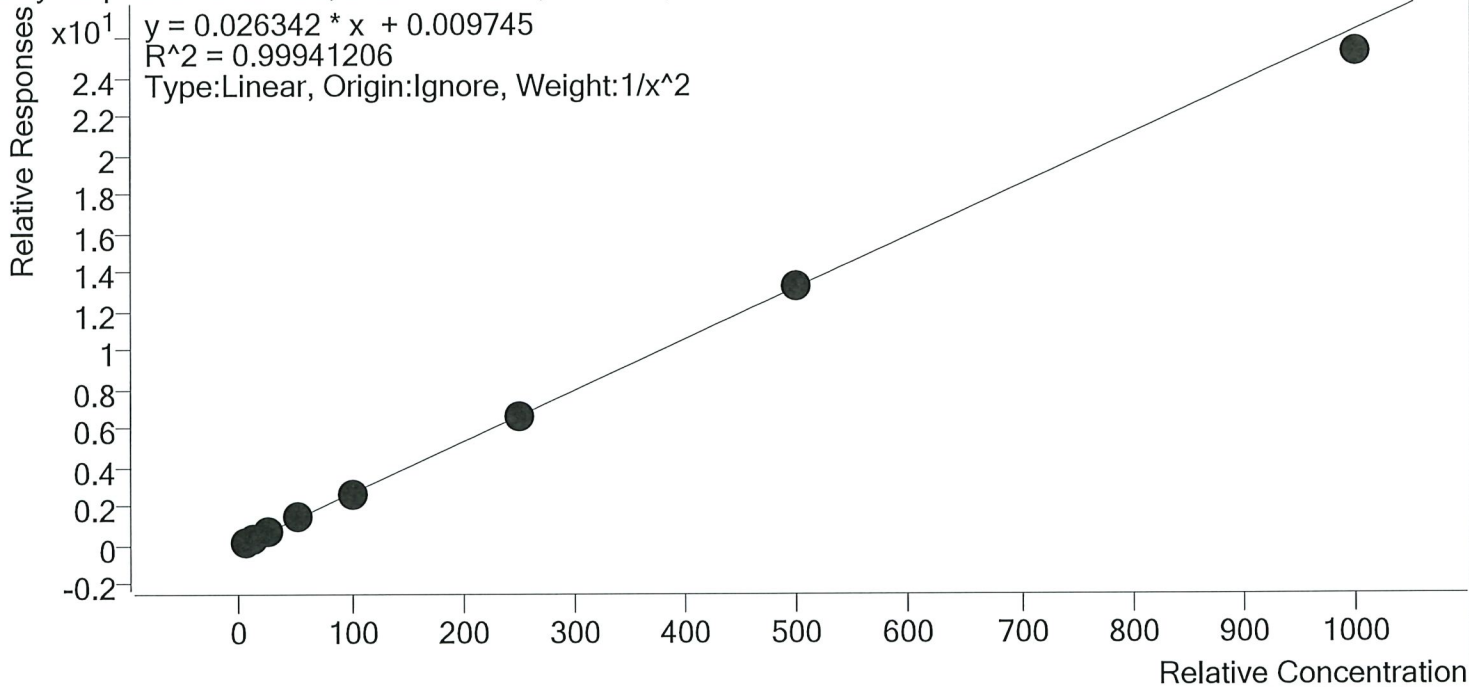
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**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	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng	7	✓	500.0	503.8	100.8
p1 Cal 8-1000ng	8	✓	1000.0	957.0	95.7

TS



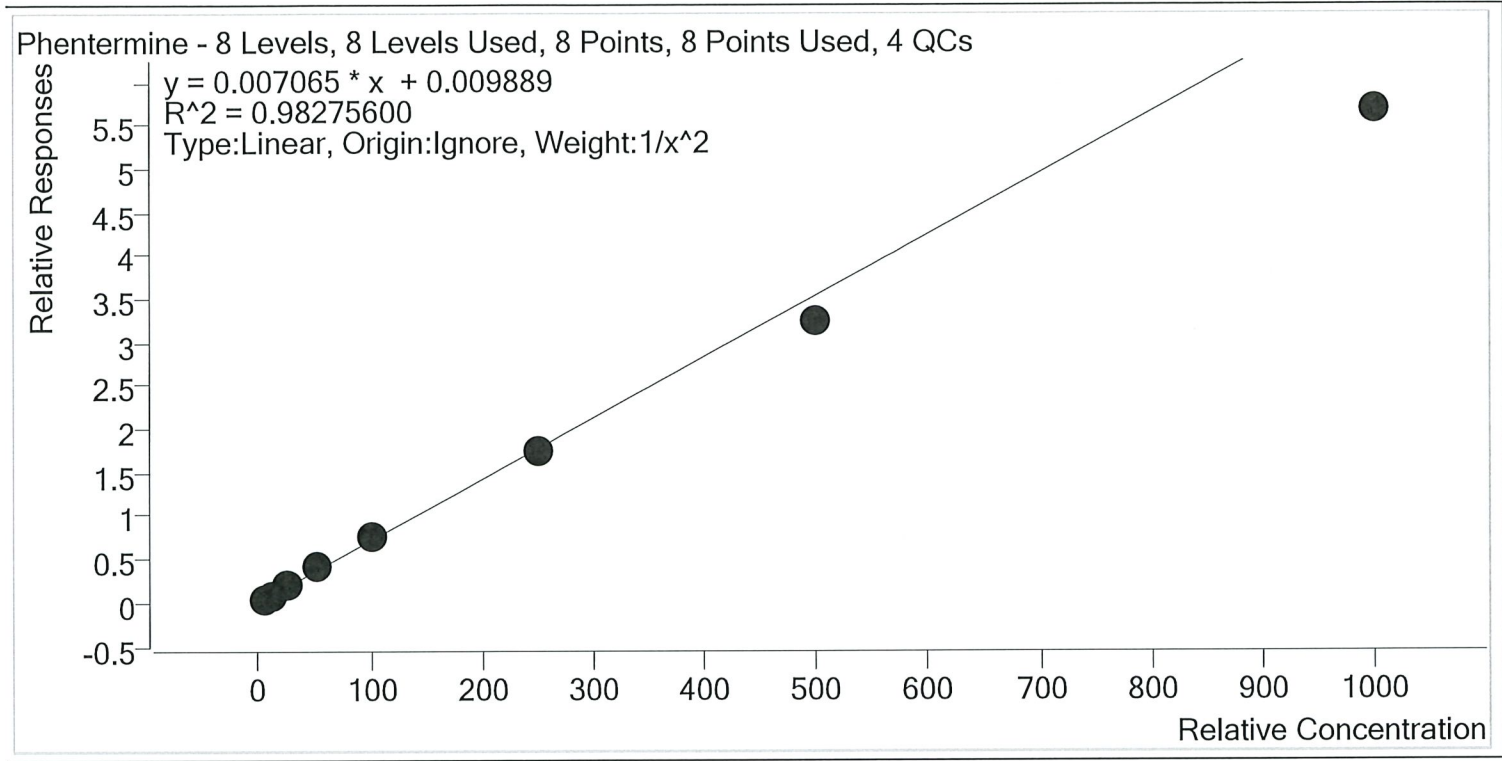
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Phentermine **Internal Standard** Phentermine-D5



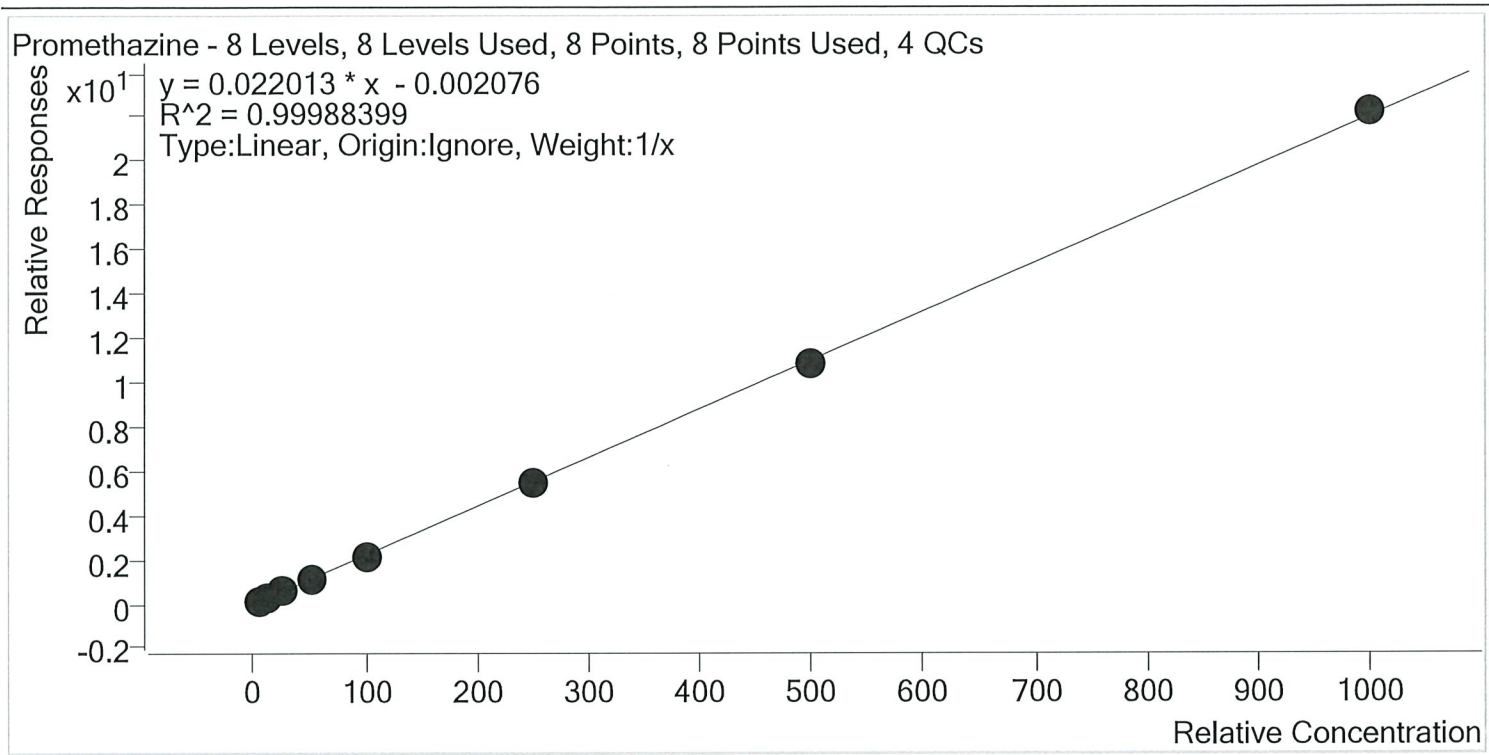
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.9
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.3
p1 Cal 3 -25ng	3	✓	25.0	28.2	113.0
p1 Cal 4-50ng	4	✓	50.0	56.2	112.5
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	244.4	97.7
p1 Cal 7-500ng	7	✓	500.0	455.4	91.1
p1 Cal 8-1000ng	8	✓	1000.0	802.7	80.3

TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	247.4	99.0
p1 Cal 7-500ng	7	✓	500.0	493.9	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1009.3	100.9

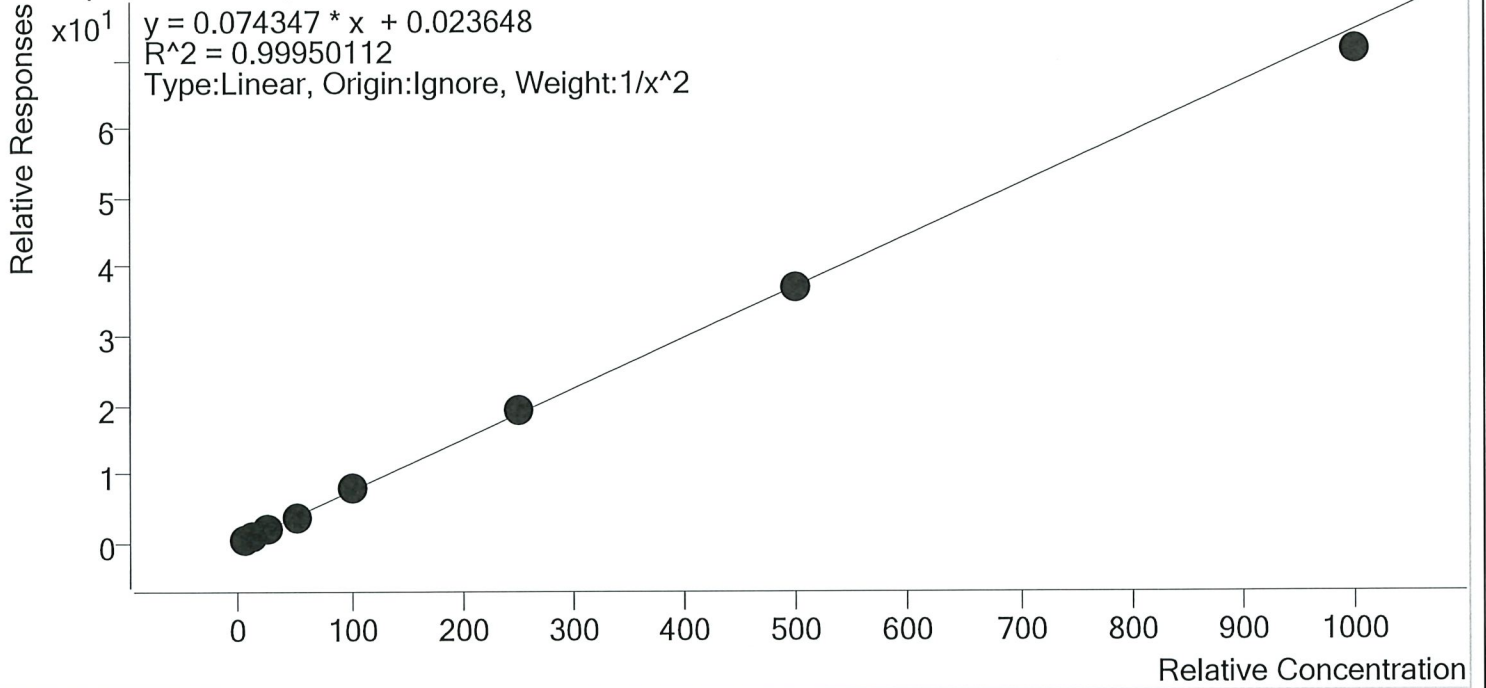
TS



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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 Analyst Name ISP\datastor  
 Analyte Quetiapine Internal Standard Quetiapine-D8

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



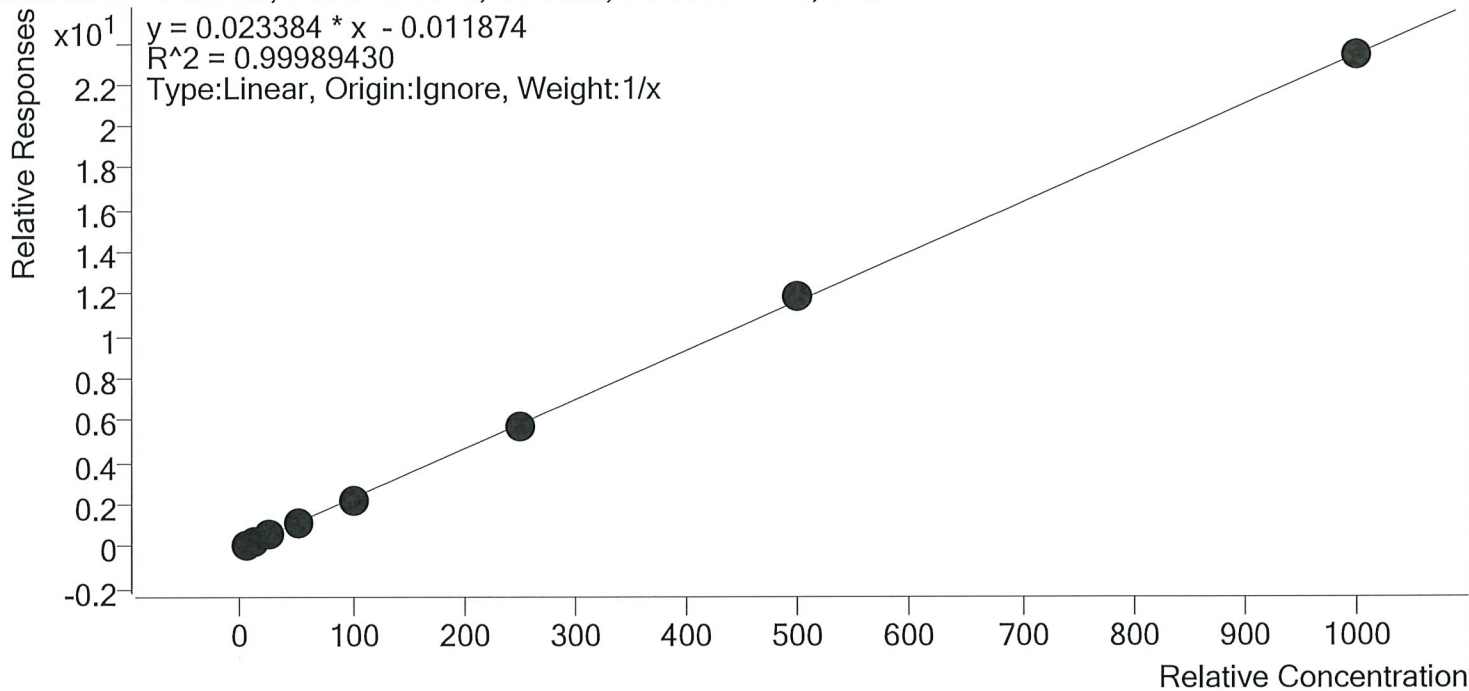
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	499.9	100.0
p1 Cal 8-1000ng	8	✓	1000.0	961.3	96.1



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



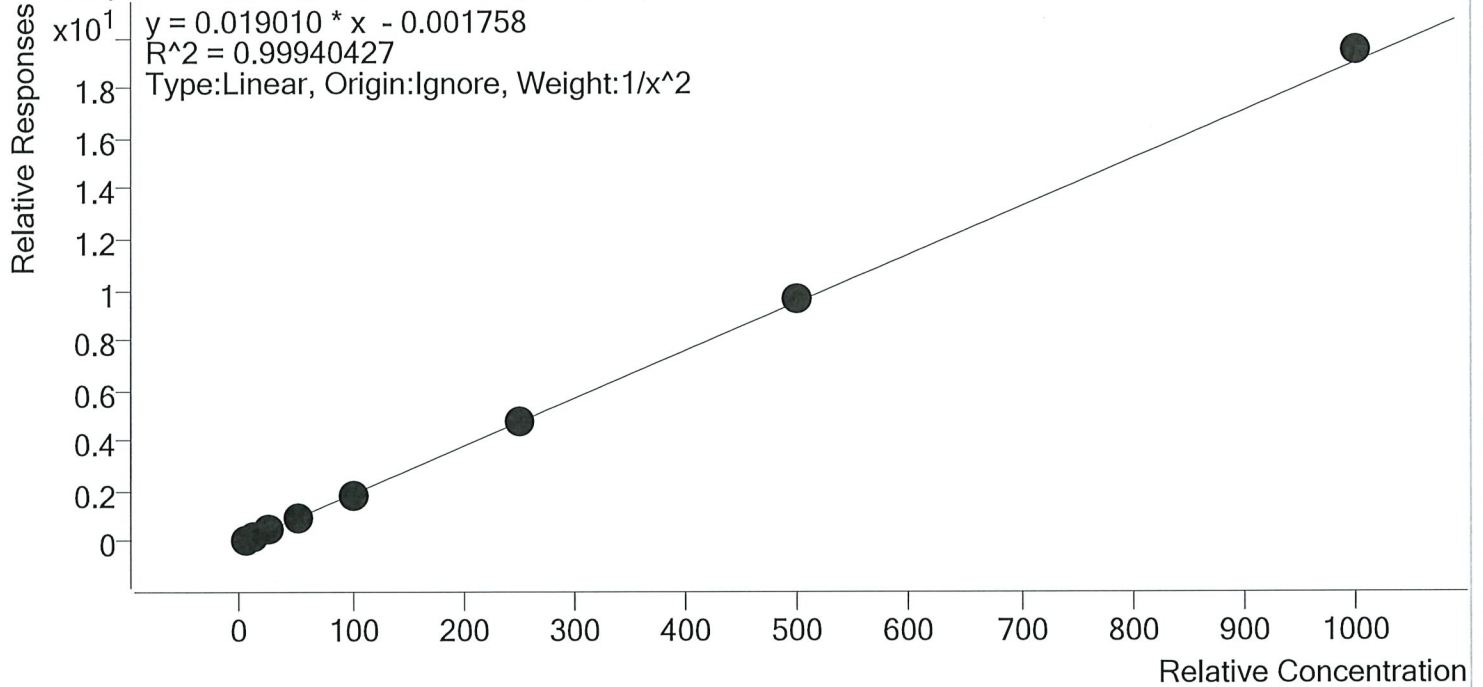
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	506.1	101.2
p1 Cal 8-1000ng	8	✓	1000.0	999.2	99.9



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**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	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	503.7	100.7
p1 Cal 8-1000ng	8	✓	1000.0	1025.2	102.5



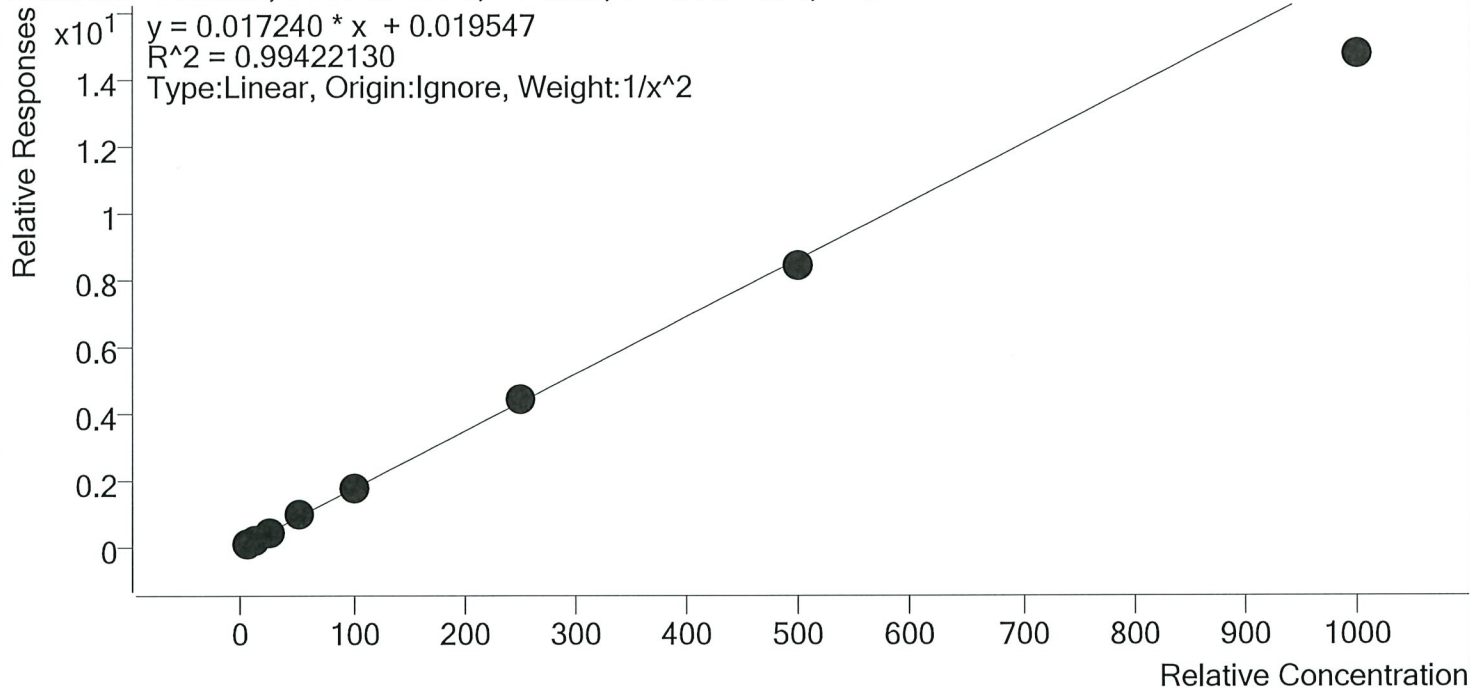
TS



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
**Last Cal. Update** 2/13/2020 8:28 AM  
**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	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.6
p1 Cal 4-50ng	4	✓	50.0	53.3	106.5
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	257.3	102.9
p1 Cal 7-500ng	7	✓	500.0	487.5	97.5
p1 Cal 8-1000ng	8	✓	1000.0	856.6	85.7

TS



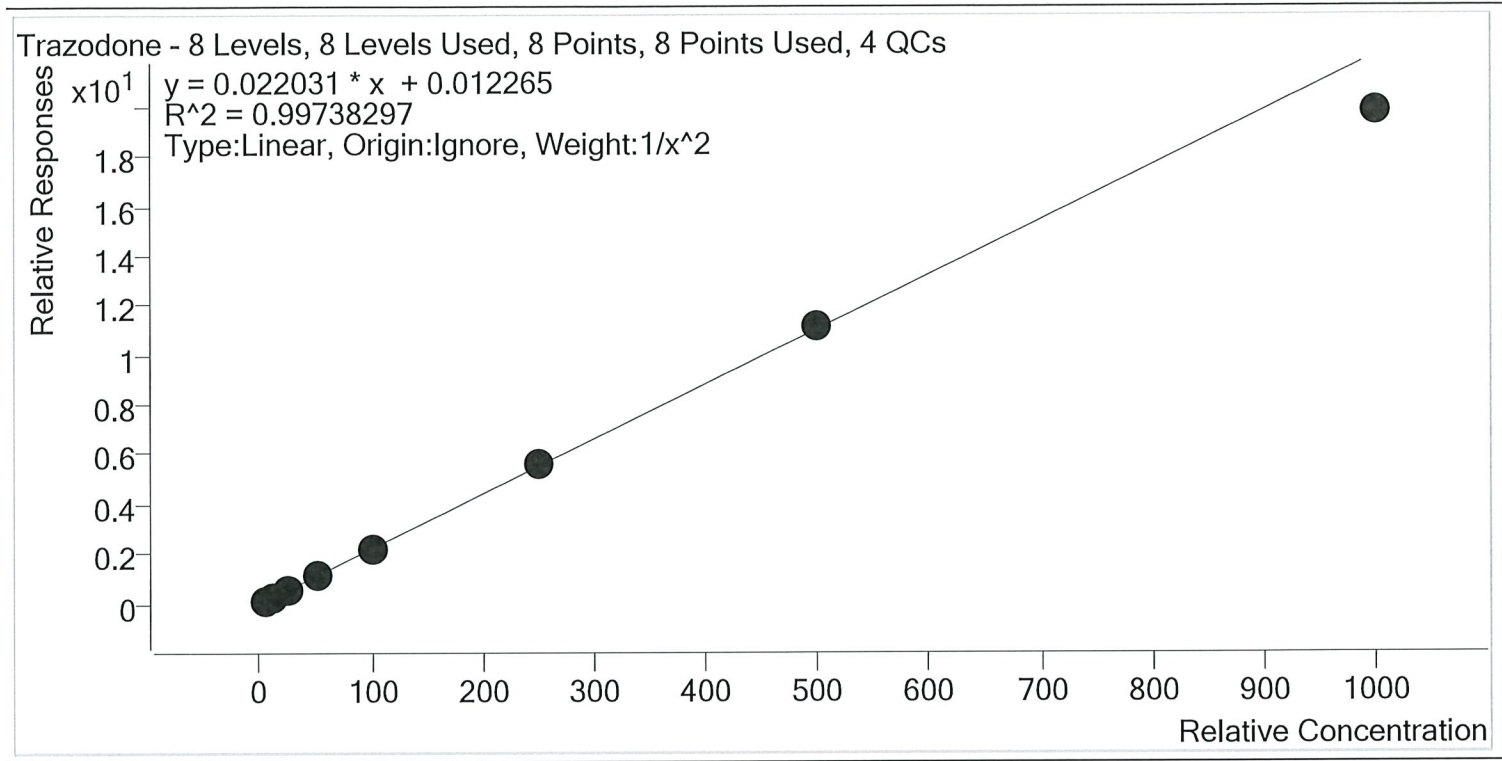
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\lst 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Trazodone **Internal Standard** Trazodone-D6



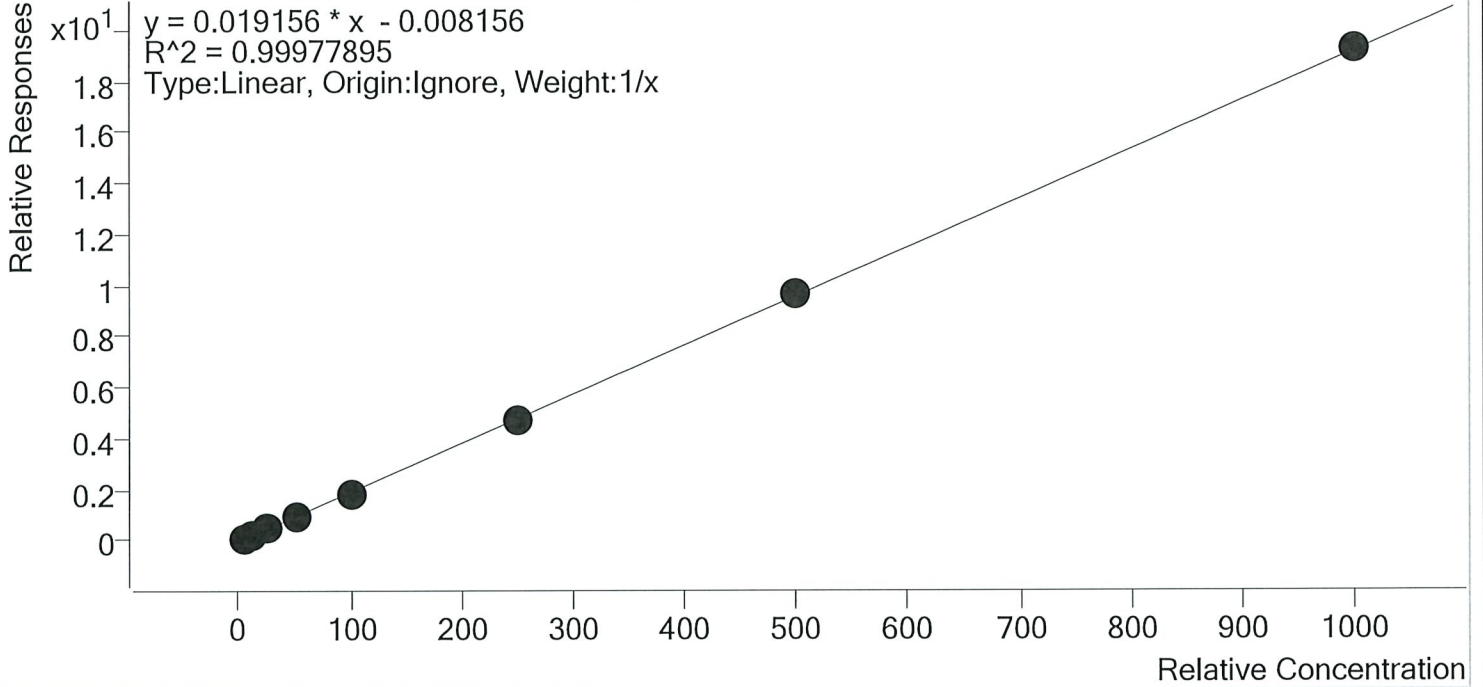
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
p1 Cal 4-50ng	4	✓	50.0	52.2	104.3
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	254.4	101.7
p1 Cal 7-500ng	7	✓	500.0	505.7	101.1
p1 Cal 8-1000ng	8	✓	1000.0	898.1	89.8



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

Batch results D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ  
 TS.batch.bin  
 Last Cal. Update 2/13/2020 8:28 AM  
 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	5.4	108.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	95.6	95.6
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	505.1	101.0
p1 Cal 8-1000ng	8	✓	1000.0	1004.3	100.4

TS



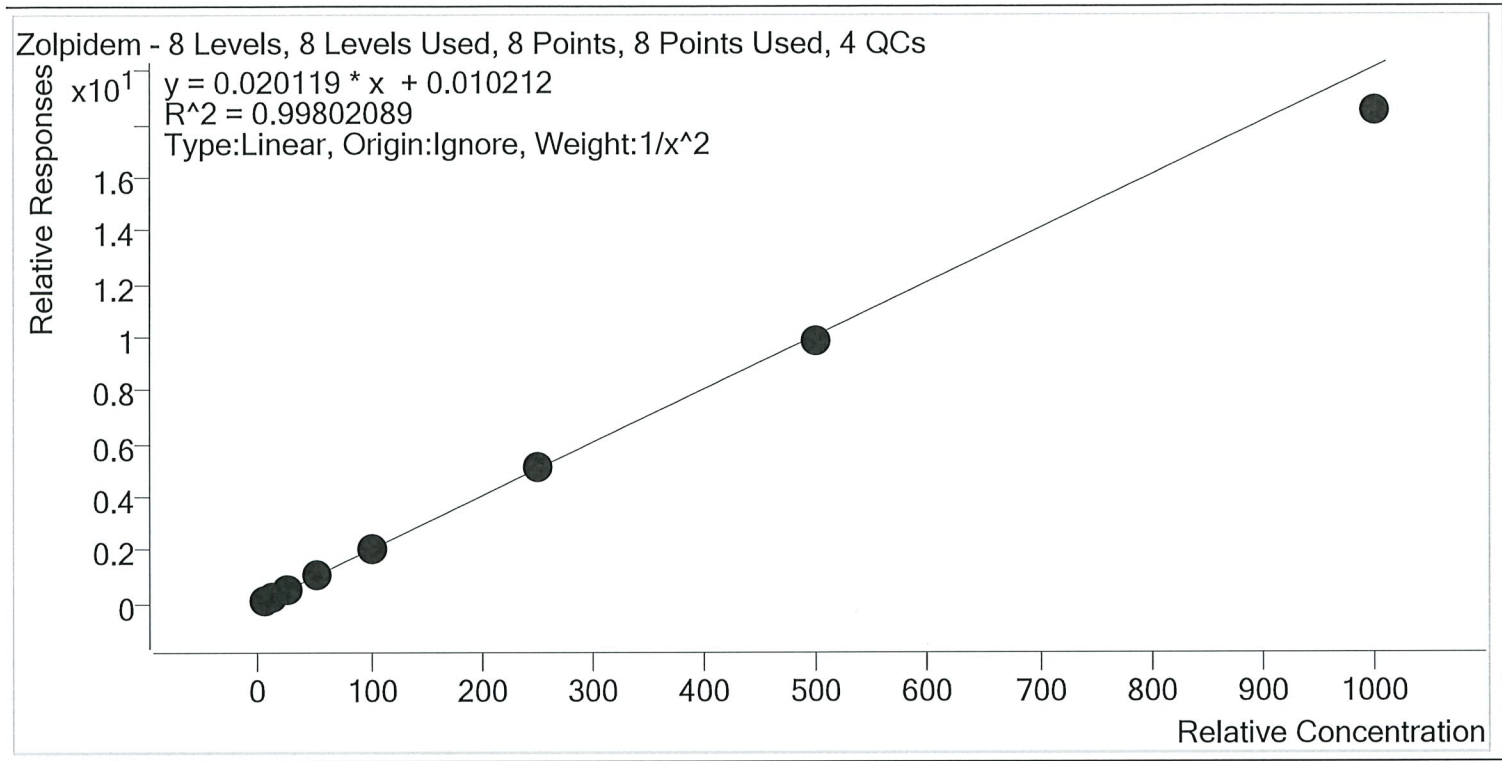
# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk\st 3988 3989 TS\QuantResults\MDQ  
TS.batch.bin

**Last Cal. Update** 2/13/2020 8:28 AM

**Analyst Name** ISP\datastor

**Analyte** Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng	4	✓	50.0	52.2	104.4
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	491.2	98.2
p1 Cal 8-1000ng	8	✓	1000.0	918.6	91.9

# AM #28 Multi-Drug Quant. Results

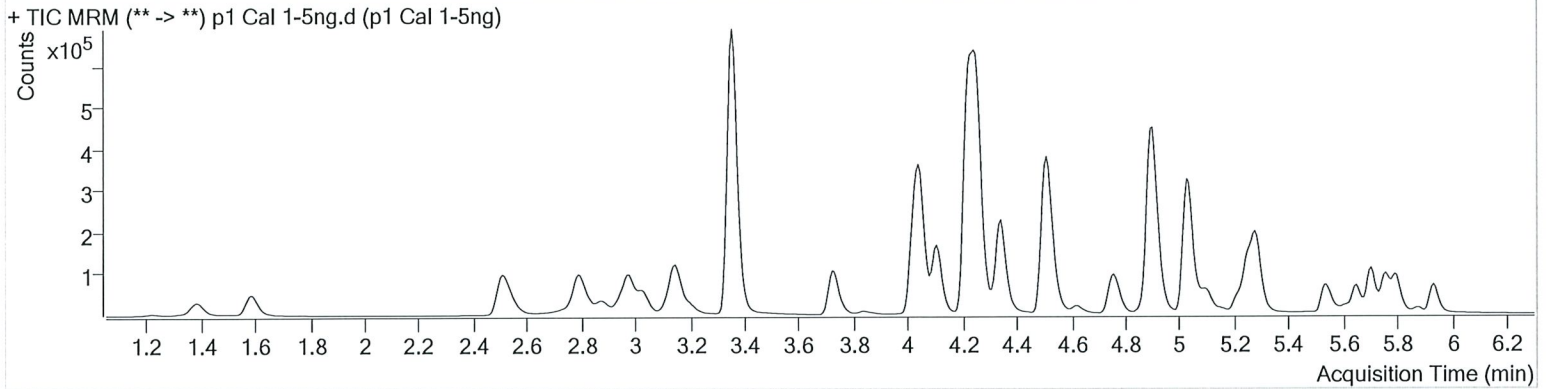
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 1-5ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-A1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 3:44:34 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	1217	∞	68.7	296.29	48810	0.5057 ng/ml
7-aminoclonazepam	4.244	15949	1089.04	80.3	1094.63	118398	4.7202 ng/ml
a-hydroxyalprazolam	5.680	2602	74.02	58.5	98.35	10308	5.0863 ng/ml
alpha-PVP	4.350	55732	4816.93	50.3	1277.14	489952	5.2303 ng/ml
Alprazolam	5.763	27655	2426.87	101.6	800.99	141219	5.2815 ng/ml
Amphetamine	3.028	46485	505.66	53.5	951.66	107822	4.8428 ng/ml
Benzoylcegonine	3.860	2272	263.11	8.1	16.28	16829	5.0537 ng/ml
Bupropion	4.773	33096	2868.50	56.6	858.21	232739	4.7689 ng/ml
Carisoprodol	5.712	16427	1048.09	58.8	219.46	169190	4.9107 ng/ml
Citalopram	5.215	11210	193.03	42.6	1590.99	101937	4.9787 ng/ml
Clonazepam	5.600	3930	374.03	35.6	86.22	9372	4.9401 ng/ml
Cocaine	4.250	66567	1233.33	43.6	1302.99	1001495	5.3922 ng/ml
Codeine	2.563	8862	1429.50	98.0	1093.05	71487	4.8472 ng/ml
Cyclobenzaprine	5.617	3858	1504.57	11.7	14.71	28920	4.9325 ng/ml
Dextromethorphan	5.258	4855	322.18	79.8	31.32	45493	5.1482 ng/ml
Dextrophan	4.106	13768	50607.23	206.6	816.74	347755	5.1703 ng/ml
Diazepam	5.941	13909	493.10	92.2	1116.98	128918	4.9381 ng/ml
Dihydrocodeine	2.541	22857	560.50	68.8	2416.76	246684	4.7743 ng/ml
Diphenhydramine	5.286	25170	∞	33.4	547.08	363112	5.3896 ng/ml
Doxylamine	4.528	111770	5702.29	98.1	4136.25	938032	4.0420 ng/ml
EDDP	5.251	23788	399.50	38.9	3058.80	246779	5.0271 ng/ml
Fentanyl	5.092	562	12.37	59.1	1187.02	49390	0.5229 ng/ml
Fluoxetine	5.702	3850	93.17	8.6	84.93	32852	5.0627 ng/ml
Hydrocodone	3.005	18243	170.50	42.3	69.91	235740	4.8787 ng/ml
Hydromorphone	1.594	17741	339.39	77.9	397.66	128861	4.9779 ng/ml
Ketamine	4.039	57349	933.24	37.8	305.14	517295	4.9160 ng/ml
Lamotrigine	4.268	5541	546.41	82.1	512.04	517295	4.7702 ng/ml
Lorazepam	5.734	1358	21.71	76.2 <b>High</b>	8.82 <b>Low</b>	9372	8.4858 ng/ml
Meprobamate	4.888	4452	280.79	26.0	63.86	42426	4.9889 ng/ml
Methadone	5.648	13302	∞	50.7	174.96	122846	5.2494 ng/ml
Methamphetamine	3.202	30420	116.48	42.0	102.07	256356	4.8926 ng/ml
Metoprolol	4.313	11720	5147.92	98.8	767.35	1288583	4.7838 ng/ml
Mirtazapine	4.623	28242	2513.60	48.6	602.56	489952	4.9725 ng/ml

# AM #28 Multi-Drug Quant. Results

TS



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.227	2226	223.36	38.8	299.52	122846	3.2783 ng/ml
Morphine	1.226	2865	1850.89	23.2	662.30	5983	4.9052 ng/ml
Nordiazepam	5.881	3383	403.15	55.2	148.45	20311	5.0562 ng/ml
Norfentanyl	4.074	7156	1163.13	38.7	93.13	591179	0.5141 ng/ml
Norhydrocodone	3.053	2858	78.63	39.0	24.44	53879	5.2278 ng/ml
Noroxycodone	2.896	13872	283.04	49.0	174.59	86643	4.9241 ng/ml
O-desmethyl-tramadol	3.361	152925	11097.74	6.0	375.64	1635635	5.0424 ng/ml
Oxazepam	5.738	1501	∞	72.4	9.79 <b>Low</b>	16950	5.2353 ng/ml
Oxycodone	2.821	38145	2014.20	31.2	315.36	334909	4.9814 ng/ml
Oxymorphone	1.390	13772	303.88	49.2	380.77	98135	4.9574 ng/ml
Phentermine	3.758	12288	96.30	2.6	22.01	287667	4.6468 ng/ml
Promethazine	5.534	9237	235.62	30.1	65.76	82536	5.1785 ng/ml
Quetiapine	5.551	23434	30294.76	58.3	737.28	58978	5.0263 ng/ml
Sertraline	5.770	1800	∞	96.7	233.20	16775	5.0956 ng/ml
Temazepam	5.805	13618	187.40	30.6	42.84	143957	5.0687 ng/ml
Tramadol	4.233	133571	1094.92	3.7	44.12	1288583	4.8787 ng/ml
Trazodone	5.160	13581	8853.80	78.1	2526.78	112246	4.9354 ng/ml
Venlafaxine	5.034	72798	7883.83	34.9	579.68	763002	5.4064 ng/ml
Zolpidem	4.918	126434	9314.34	30.3	699.03	1153437	4.9408 ng/ml

# AM #28 Multi-Drug Quant. Results

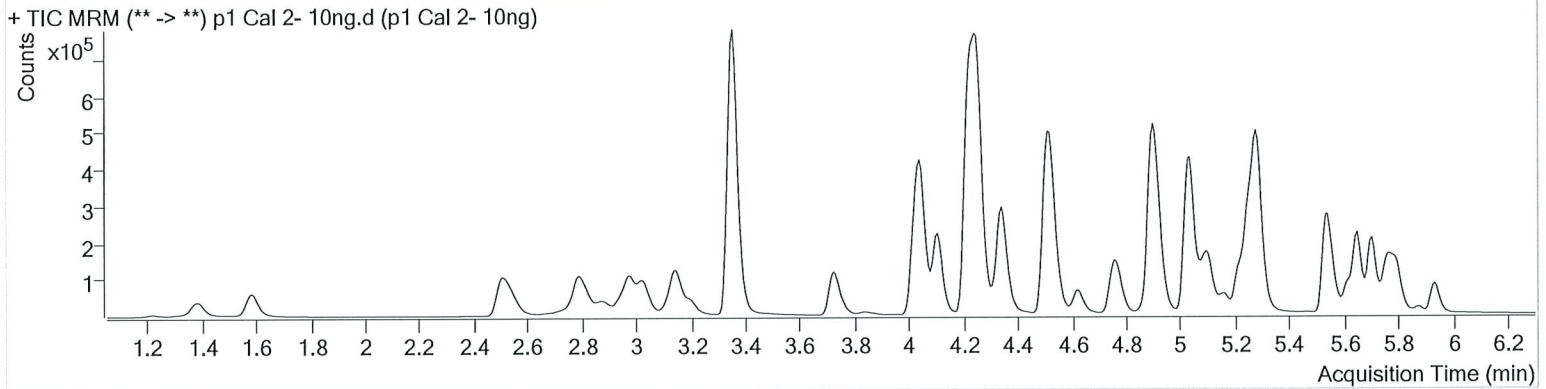
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 2- 10ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 2- 10ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-B1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 3:55:19 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	2395	1468.21	69.4	4660.27	51847	0.9835 ng/ml
7-aminoclonazepam	4.244	33208	1334.07	80.5	240.06	126676	10.5684 ng/ml
a-hydroxyalprazolam	5.680	4966	171.42	56.7	434.89	10548	9.7040 ng/ml
alpha-PVP	4.350	124959	1168.21	52.0	1313.86	560712	10.0807 ng/ml
Alprazolam	5.756	56131	512.61	100.8	365.69	148551	9.9494 ng/ml
Amphetamine	3.028	101474	1080.98	54.4	1358.21	121380	10.3757 ng/ml
Benzoylcegonine	3.860	4492	511.38	8.3	33.28	17381	9.9748 ng/ml
Buprenorphine	5.841	1774	18.17	16.6	9.79 <b>Low</b>	66724	1.0128 ng/ml
Bupropion	4.773	89581	7740.90	57.3	2169.58	320674	9.8662 ng/ml
Carisoprodol	5.712	34398	∞	53.6	64.77	168764	10.3579 ng/ml
Citalopram	5.215	54324	373.83	40.8	11211.48	244121	10.1367 ng/ml
Clonazepam	5.600	8113	153.88	34.3	46.02	9773	10.1138 ng/ml
Cocaine	4.250	140100	17283.44	44.1	3368.16	1085236	10.1287 ng/ml
Codeine	2.563	18162	1805.79	97.0	4741.57	74761	10.3434 ng/ml
Cyclobenzaprine	5.617	37933	4668.51	9.6	121.89	137315	10.2370 ng/ml
Dextromethorphan	5.258	29290	698.49	81.1	2489.16	135661	10.1132 ng/ml
Dextrorphan	4.106	32279	4837.32	210.2	867.85	424338	9.9374 ng/ml
Diazepam	5.941	29247	272.49	86.6	928.82	133527	10.1992 ng/ml
Dihydrocodeine	2.541	48393	2885.41	66.7	1096.52	260448	10.4724 ng/ml
Diphenhydramine	5.286	119590	773.89	33.4	1769.26	872321	10.2547 ng/ml
Doxylamine	4.528	262332	20557.06	97.1	∞	1111901	9.4974 ng/ml
EDDP	5.251	76691	∞	41.8	5097.51	411659	9.9077 ng/ml
Fentanyl	5.092	3844	199.39	77.1	2515.77	207659	0.9263 ng/ml
Fluoxetine	5.702	41416	36728.44	9.5	243.55	179355	10.0042 ng/ml
Hydrocodone	3.005	39875	304.52	40.8	309.26	258449	10.2320 ng/ml
Hydromorphone	1.594	36489	497.03	76.2	601.84	136523	10.1100 ng/ml
Ketamine	4.039	119213	803.80	37.7	826.91	554660	10.1336 ng/ml
Lamotrigine	4.268	11474	981.02	82.9	223.44	554660	10.4417 ng/ml
Lorazepam	5.734	2855	194.78	52.7	∞	9773	12.7743 ng/ml
Meprobamate	4.888	8411	293.67	25.7	90.88	44400	9.7153 ng/ml
Methadone	5.648	74202	981.89	53.1	1551.04	350877	10.1481 ng/ml
Methamphetamine	3.202	59703	356.96	42.4	526.88	261673	10.0588 ng/ml
Metoprolol	4.313	25169	3285.95	100.4	2291.96	1396266	10.2164 ng/ml

15



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.623	108825	1386.78	49.4	5289.82	560712	10.4616 ng/ml
Mitragynine	5.227	13994	1308.50	38.1	727.95	350877	9.6978 ng/ml
Morphine	1.226	5840	10631.08	22.8	1527.84	6290	10.1684 ng/ml
Norbuprenorphine	4.983	105	17.34	85.0	21.27	4826	0.9739 ng/ml
Nordiazepam	5.881	6796	667.88	53.5	144.86	21625	9.8803 ng/ml
Norfentanyl	4.068	15126	2120.46	38.6	105.74	643643	0.9717 ng/ml
Norhydrocodone	3.053	6036	351.17	45.7	71.22	58428	9.4855 ng/ml
Noroxycodone	2.896	29323	701.53	47.7	526.18	91098	10.1866 ng/ml
O-desmethyl-tramadol	3.361	311876	2829.24	6.0	3520.65	1709874	9.9199 ng/ml
Oxazepam	5.744	2645	42.86	77.8	13.91	18377	8.7886 ng/ml
Oxycodone	2.821	77755	6351.94	32.6	1022.79	361278	9.8890 ng/ml
Oxymorphone	1.390	28561	245.22	49.7	377.86	104042	10.0512 ng/ml
Phentermine	3.758	27083	481.05	2.5	27.56	318688	10.6295 ng/ml
Promethazine	5.541	83801	4271.80	30.8	763.46	389283	9.8737 ng/ml
Quetiapine	5.558	89356	499.36	60.6	4190.91	118066	9.8616 ng/ml
Sertraline	5.770	21992	309.47	90.7	954.79	98146	10.0900 ng/ml
Temazepam	5.805	27154	380.29	30.5	88.54	147549	9.7732 ng/ml
Tramadol	4.233	271382	38580.50	3.5	∞	1396266	10.1401 ng/ml
Trazodone	5.160	72716	24800.25	79.4	2134.06	311339	10.0447 ng/ml
Venlafaxine	5.034	169248	1828.82	36.2	1115.26	916367	10.0671 ng/ml
Zolpidem	4.918	265822	∞	30.4	7769.60	1253163	10.0359 ng/ml



TS

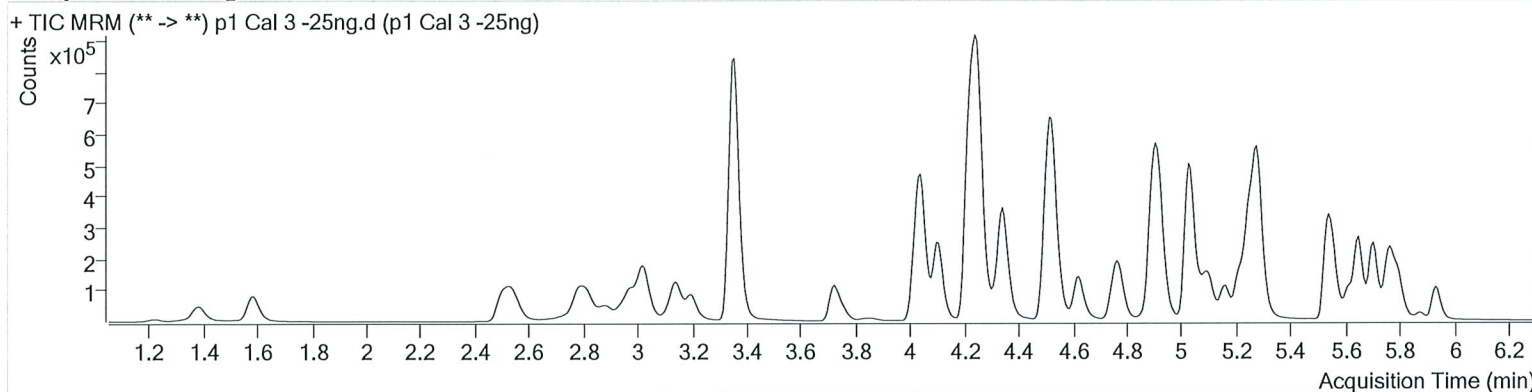


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wkst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 3 -25ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-C1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:05:54 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.123	5220	3019.88	74.0	18796.80	46400	2.4743 ng/ml
7-aminoclonazepam	4.244	72083	3160.31	80.5	3206.52	115461	27.1872 ng/ml
a-hydroxyalprazolam	5.680	10796	269.47	62.1	255.44	9460	23.8843 ng/ml
alpha-PVP	4.350	278888	2044.53	50.5	9609.06	501934	24.8741 ng/ml
Alprazolam	5.756	125361	755.30	103.8	1151.19	132738	24.4786 ng/ml
Amphetamine	3.028	238001	11151.99	53.8	1982.50	118793	26.3298 ng/ml
Benzoylcegonine	3.860	9529	2813.41	7.7	65.18	15499	24.1755 ng/ml
Buprenorphine	5.841	4127	40.73	16.1	86.41	58124	2.4585 ng/ml
Bupropion	4.773	200370	∞	58.2	3135.01	289729	25.1865 ng/ml
Carisoprodol	5.712	74020	2942.72	55.8	∞	152846	24.6716 ng/ml
Citalopram	5.215	118126	718.82	41.4	638.81	217275	24.8520 ng/ml
Clonazepam	5.600	18905	109.67	34.2	62.32	9386	25.0188 ng/ml
Cocaine	4.250	309217	16342.13	44.4	13949.20	975083	24.3486 ng/ml
Codeine	2.563	38885	2123.94	100.5	2776.36	66795	26.0150 ng/ml
Cyclobenzaprine	5.617	82691	369.81	9.9	181.20	121594	25.2337 ng/ml
Dextromethorphan	5.258	64544	5497.85	80.6	1273.41	120986	24.5545 ng/ml
Dextrorphan	4.106	71619	7433.32	211.8	8908.86	379240	24.6749 ng/ml
Diazepam	5.934	64910	910.91	88.1	588.13	121845	25.0487 ng/ml
Dihydrocodeine	2.534	106150	4548.04	67.2	16786.40	233989	26.8570 ng/ml
Diphenhydramine	5.286	259139	22608.82	33.8	5764.63	782778	24.1772 ng/ml
Doxylamine	4.521	583657	38657.54	97.3	12681.37	1009711	25.4797 ng/ml
EDDP	5.251	172834	979.66	42.5	1708.67	372551	24.9788 ng/ml
Fentanyl	5.092	8196	479.64	75.0	207.41	186434	2.3669 ng/ml
Fluoxetine	5.702	94274	373.25	8.5	499.04	159878	25.5917 ng/ml
Hydrocodone	3.005	89985	85.25	40.4	171.58	236156	26.0176 ng/ml
Hydromorphone	1.587	79998	∞	79.8	908.09	126043	24.6604 ng/ml
Ketamine	4.039	265876	3045.07	38.1	474.82	507510	25.6235 ng/ml
Lamotrigine	4.268	25769	2221.11	78.9	1586.87	507510	27.5498 ng/ml
Lorazepam	5.734	6784	191.45	46.6	78.66	9386	25.3083 ng/ml
Meprobamate	4.881	19305	375.11	27.2	245.67	40239	25.9528 ng/ml
Methadone	5.648	161616	1821.35	53.6	2066.37	315623	24.4167 ng/ml
Methamphetamine	3.202	146089	1092.89	42.3	741.93	258284	25.9804 ng/ml
Metoprolol	4.313	57342	2378.93	95.8	2482.97	1250501	27.1443 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.623	242575	65818.66	49.0	3668.70	501934	22.0965 ng/ml
Mitragynine	5.227	30705	159710.08	40.3	27114.75	315623	26.6277 ng/ml
Morphine	1.226	12796	483.47	22.8	473.56	5705	25.5494 ng/ml
Norbuprenorphine	4.983	237	27.69	67.6	11.61	4140	2.7190 ng/ml
Nordiazepam	5.881	15243	871.46	57.9	703.08	20178	24.2901 ng/ml
Norfentanyl	4.068	34123	4064.98	36.9	917.66	584705	2.3715 ng/ml
Norhydrocodone	3.046	13975	211.71	43.2	326.78	52310	23.3669 ng/ml
Noroxycodone	2.889	64902	1150.28	48.5	366.86	82788	25.2165 ng/ml
O-desmethyl-tramadol	3.354	685661	2338.25	6.1	956.14	1534380	24.4301 ng/ml
Oxazepam	5.738	6449	∞	70.5	37.80	15412	26.3964 ng/ml
Oxycodone	2.814	175359	1613.86	32.0	1255.15	323600	25.7111 ng/ml
Oxymorphone	1.383	62981	1163.63	47.9	∞	92461	25.4887 ng/ml
Phentermine	3.758	63036	856.05	2.4	138.24	301043	28.2393 ng/ml
Promethazine	5.534	190910	682.28	30.4	870.24	351059	24.7988 ng/ml
Quetiapine	5.558	201117	897.31	59.9	362386.05	107130	24.9329 ng/ml
Sertraline	5.770	49912	∞	91.1	35599.34	86088	25.3009 ng/ml
Temazepam	5.805	61492	802.65	29.7	399.99	131050	24.7751 ng/ml
Tramadol	4.233	588173	3952.76	3.4	558.63	1250501	26.1486 ng/ml
Trazodone	5.160	160981	4485.63	79.5	19661.15	277746	25.7516 ng/ml
Venlafaxine	5.034	377583	11453.30	36.1	840.45	823955	24.3475 ng/ml
Zolpidem	4.918	593349	25929.40	30.7	2176.75	1127739	25.6443 ng/ml

TS

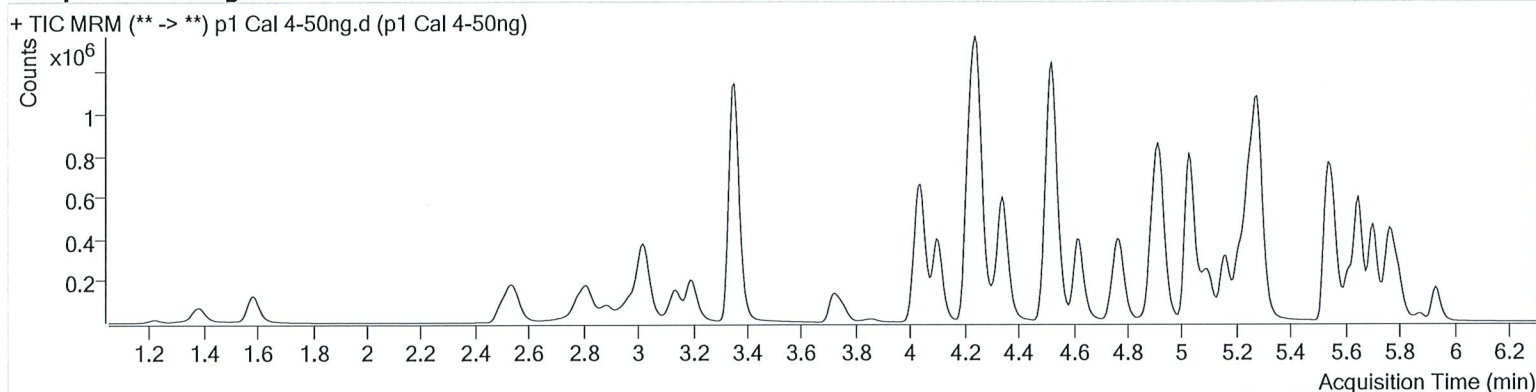


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wkst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 4-50ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-D1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:16:28 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	11170	3513.94	70.2	805.23	49462	5.0220 ng/ml
7-aminoclonazepam	4.244	142007	427.45	81.1	14523.26	114410	55.4960 ng/ml
a-hydroxyalprazolam	5.680	24031	806.25	57.4	322.89	9387	53.8923 ng/ml
alpha-PVP	4.350	631932	37916.71	51.3	1162.33	569717	49.4836 ng/ml
Alprazolam	5.756	253711	2994.40	102.3	2214.34	129518	50.4935 ng/ml
Amphetamine	3.021	571031	∞	52.3	15374.41	145733	52.4968 ng/ml
Benzoyllecgonine	3.860	20645	2689.25	7.6	62.35	16724	48.8683 ng/ml
Buprenorphine	5.841	13308	502.99	16.3	94.90	91154	4.8994 ng/ml
Bupropion	4.773	534351	50407.21	58.3	2059.47	381234	51.5758 ng/ml
Carisoprodol	5.712	147803	13882.60	54.8	7566.42	144757	52.0669 ng/ml
Citalopram	5.215	354665	1213.00	40.7	2161.89	315277	51.4863 ng/ml
Clonazepam	5.600	39698	775.20	34.1	480.76	9454	52.5265 ng/ml
Cocaine	4.250	660952	113912.27	44.0	34081.58	1022943	49.2311 ng/ml
Codeine	2.556	79980	6975.03	100.3	1300.90	69203	52.5140 ng/ml
Cyclobenzaprine	5.617	270435	21089.61	10.0	675.53	198398	50.6003 ng/ml
Dextromethorphan	5.258	201784	837.98	79.6	550.19	183873	50.1978 ng/ml
Dextrorphan	4.106	168675	1959.26	209.7	1914.64	440163	50.0732 ng/ml
Diazepam	5.934	133011	1302.93	88.2	737.77	122941	51.0462 ng/ml
Dihydrocodeine	2.534	217625	11557.04	67.9	1941.52	242954	53.9002 ng/ml
Diphenhydramine	5.286	784002	21066.07	33.6	7345.13	1148802	49.4012 ng/ml
Doxylamine	4.521	1392634	139653.60	96.4	23640.07	1179115	53.6516 ng/ml
EDDP	5.251	447398	634.89	42.4	1998.50	482500	50.1314 ng/ml
Fentanyl	5.092	27599	1421.06	73.9	463.33	301614	5.0579 ng/ml
Fluoxetine	5.702	319368	8748.55	8.9	26072.36	273748	50.6617 ng/ml
Hydrocodone	2.998	189863	∞	42.3	∞	251699	52.0038 ng/ml
Hydromorphone	1.587	164337	∞	78.2	847.25	127547	50.5504 ng/ml
Ketamine	4.039	567562	37831.03	38.0	4148.41	538543	52.1963 ng/ml
Lamotrigine	4.268	52172	4822.52	79.5	∞	538543	53.7624 ng/ml
Lorazepam	5.734	13571	263.38	52.6	31.01	9454	46.0513 ng/ml
Meprobamate	4.881	39526	1063.00	26.5	569.92	40663	53.4877 ng/ml
Methadone	5.648	505311	38371.27	54.1	2569.41	488557	49.2079 ng/ml
Methamphetamine	3.195	385161	2493.05	42.6	1527.14	330503	54.2782 ng/ml
Metoprolol	4.313	126898	6168.02	95.1	4749.73	1355294	56.2052 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.623	697118	64981.89	49.7	10491.29	569717	51.8815 ng/ml
Mitragynine	5.227	99574	5939.12	39.2	3003.84	488557	58.0468 ng/ml
Morphine	1.226	25839	459.59	23.4	1050.16	5666	52.6715 ng/ml
Norbuprenorphine	4.983	670	47.04	94.7	26.37	6672	4.8453 ng/ml
Nordiazepam	5.881	31404	1058.62	58.8	2018.49	20162	50.4915 ng/ml
Norfentanyl	4.068	78328	11112.63	37.0	2155.63	656814	4.8167 ng/ml
Norhydrocodone	3.046	31914	80.01	42.4	337.47	57495	47.7568 ng/ml
Noroxycodone	2.889	136432	1391.28	49.2	1987.85	84708	52.1066 ng/ml
O-desmethyl-tramadol	3.354	1435134	55134.73	6.0	3069.39	1564888	50.2288 ng/ml
Oxazepam	5.738	12959	292.10	70.8	73.55	15880	51.9019 ng/ml
Oxycodone	2.814	363930	5893.95	32.1	1374.88	336337	51.8717 ng/ml
Oxymorphone	1.383	123700	∞	48.9	2711.74	90930	51.2736 ng/ml
Phentermine	3.758	146533	∞	2.6	163.51	359912	56.2299 ng/ml
Promethazine	5.534	629952	∞	30.0	3985.91	569854	50.3137 ng/ml
Quetiapine	5.558	546560	84331.06	60.4	141495.03	144632	50.5111 ng/ml
Sertraline	5.770	161534	584.63	91.6	29998.63	141823	49.2150 ng/ml
Temazepam	5.805	128276	309.69	30.3	224.75	134168	50.3852 ng/ml
Tramadol	4.233	1270941	1603.36	3.4	400.60	1355294	53.2606 ng/ml
Trazodone	5.160	479509	∞	78.3	55581.66	412878	52.1590 ng/ml
Venlafaxine	5.027	882267	2727.90	37.0	2522.30	944617	49.1818 ng/ml
Zolpidem	4.918	1265575	94911.87	30.5	∞	1194038	52.1755 ng/ml

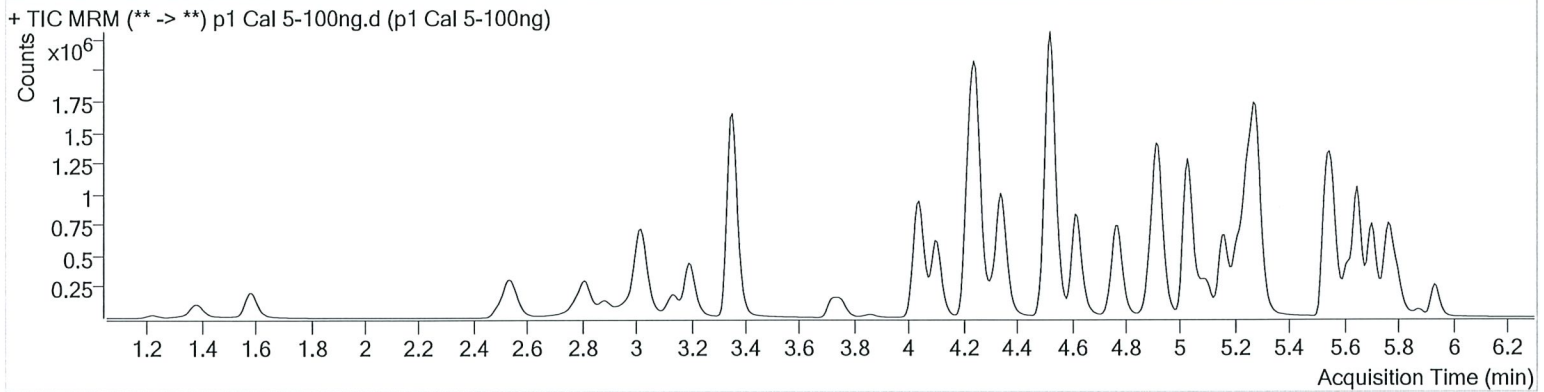
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wk1st 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:27:03 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	21366	2166.16	71.2	69384.51	49601	9.6291 ng/ml
7-aminoclonazepam	4.244	240547	17576.75	81.0	2226.67	105060	103.6058 ng/ml
a-hydroxyalprazolam	5.680	42456	598.72	62.2	523.47	9111	98.3088 ng/ml
alpha-PVP	4.350	1272031	216630.53	51.6	16015.92	587864	96.3670 ng/ml
Alprazolam	5.756	466393	31018.76	103.9	3401.00	126244	94.9989 ng/ml
Amphetamine	3.021	1161375	13647.12	54.0	45031.67	161280	97.3553 ng/ml
Benzoylcegonine	3.860	38765	1456.58	7.9	630.93	15773	97.6159 ng/ml
Buprenorphine	5.841	27852	596.28	16.6	988.42	94872	9.7032 ng/ml
Bupropion	4.773	1135459	52554.08	57.7	2424.85	412377	101.8161 ng/ml
Carisoprodol	5.712	271384	5898.73	54.9	661.66	142815	96.9398 ng/ml
Citalopram	5.209	742318	13333.71	41.4	2519.78	344827	98.5815 ng/ml
Clonazepam	5.593	75710	10865.77	34.9	178.69	9378	101.3005 ng/ml
Cocaine	4.250	1284005	52153.71	44.2	61105.76	1013285	96.1998 ng/ml
Codeine	2.556	147721	10540.37	100.4	1182.54	66267	102.1058 ng/ml
Cyclobenzaprine	5.617	581441	1817.86	9.9	921.58	220867	97.7452 ng/ml
Dextromethorphan	5.252	426478	686.38	78.8	5504.74	197153	98.6619 ng/ml
Dextrorphan	4.106	342819	28244.74	207.3	2100.22	453862	98.7013 ng/ml
Diazepam	5.934	257343	3955.60	86.1	8264.30	121352	100.2171 ng/ml
Dihydrocodeine	2.534	407975	1760.42	67.6	11397.55	244823	101.0426 ng/ml
Diphenhydramine	5.279	1656885	2982.38	34.0	16978.20	1248183	95.6993 ng/ml
Doxylamine	4.521	2849270	16951.65	96.8	244325.54	1233505	106.3858 ng/ml
EDDP	5.251	922840	981.79	42.0	32503.15	509578	98.1065 ng/ml
Fentanyl	5.092	60002	1142.91	75.7	1067.51	336731	9.9646 ng/ml
Fluoxetine	5.702	672827	50195.31	9.0	292.64	302195	96.7109 ng/ml
Hydrocodone	2.998	371097	∞	41.7	∞	255798	100.4847 ng/ml
Hydromorphone	1.587	312028	742.00	77.8	1292.60	122191	100.6536 ng/ml
Ketamine	4.039	1104999	36153.93	38.1	733.50	540106	101.9326 ng/ml
Lamotrigine	4.268	94533	28781.10	78.3	∞	540106	98.1990 ng/ml
Lorazepam	5.734	25975	2282.78	58.0	113.59	9378	84.8897 ng/ml
Meprobamate	4.881	77298	964.08	26.1	403.54	40914	104.7898 ng/ml
Methadone	5.648	1107888	1641.04	52.3	3381.13	530673	99.2142 ng/ml
Methamphetamine	3.195	874768	3664.92	42.7	11656.66	389178	105.3454 ng/ml
Metoprolol	4.313	243416	41437.01	96.0	6670.90	1341907	109.5896 ng/ml

15



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	1477749	23753.05	49.3	83338.39	587864	103.7857 ng/ml
Mitragynine	5.227	202991	19376.98	40.0	23698.77	530673	110.7535 ng/ml
Morphine	1.226	49335	2322.48	23.2	556.00	5543	103.4524 ng/ml
Norbuprenorphine	4.983	1455	62.43	84.6	83.69	7274	9.7622 ng/ml
Nordiazepam	5.881	60422	1631.05	56.5	2121.99	19962	98.4829 ng/ml
Norfentanyl	4.068	154083	1075.58	37.3	1746.89	640365	9.6901 ng/ml
Norhydrocodone	3.046	63286	751.54	42.8	348.86	57639	93.7472 ng/ml
Noroxycodone	2.889	255919	1947.61	49.5	1389.32	82559	100.5486 ng/ml
O-desmethyl-tramadol	3.354	2756920	60676.45	6.0	3643.99	1537837	98.2710 ng/ml
Oxazepam	5.738	25415	∞	70.0	709.35	16811	96.5316 ng/ml
Oxycodone	2.807	704730	3603.92	31.7	2971.71	335986	101.0534 ng/ml
Oxymorphone	1.383	229255	1119.49	49.5	∞	87411	99.1944 ng/ml
Phentermine	3.758	298003	6870.28	2.5	304.87	391874	106.2419 ng/ml
Promethazine	5.534	1364373	1384.36	30.1	53705.84	625452	99.1925 ng/ml
Quetiapine	5.558	1135041	53505.19	58.7	1133.84	149329	101.9185 ng/ml
Sertraline	5.770	341859	1688.52	90.1	1220.94	150943	97.3597 ng/ml
Temazepam	5.798	245336	1211.70	29.4	331.49	134179	96.2731 ng/ml
Tramadol	4.226	2428558	108756.21	3.4	454.59	1341907	103.8419 ng/ml
Trazodone	5.160	1021111	∞	77.8	77244.97	457193	100.8202 ng/ml
Venlafaxine	5.027	1783575	2971.67	36.5	11055.31	978374	95.5893 ng/ml
Zolpidem	4.918	2461156	97932.78	30.5	384.34	1202735	101.2042 ng/ml

# AM #28 Multi-Drug Quant. Results

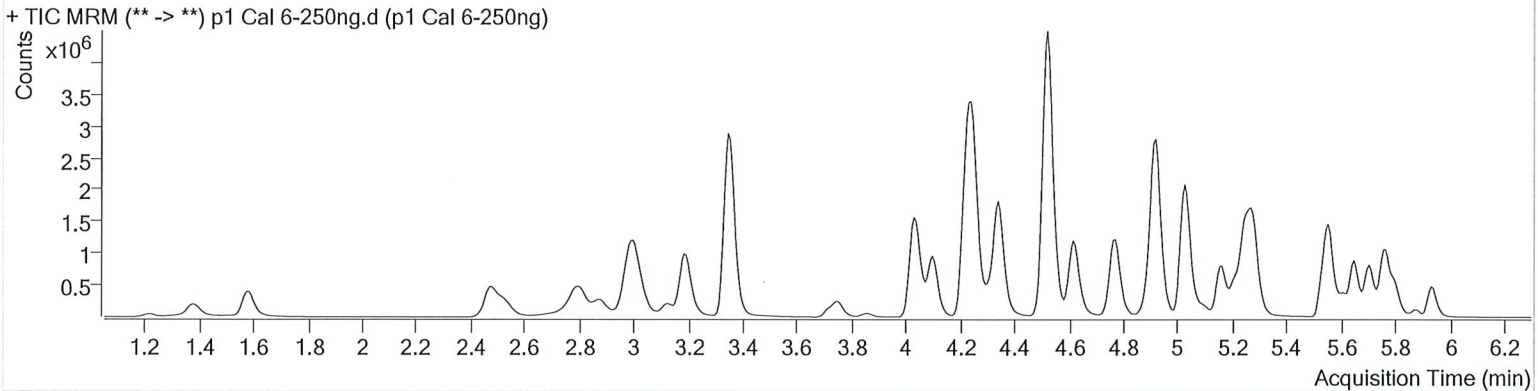
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 6-250ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-F1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:37:38 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	49602	7982.69	70.7	2866.58	44569	24.9645 ng/ml
7-aminoclonazepam	4.237	426779	41079.07	81.4	21756.12	81215	239.6789 ng/ml
a-hydroxylprazolam	5.680	104148	747.63	61.5	428.08	9056	242.9935 ng/ml
alpha-PVP	4.344	2703260	182728.38	50.8	2525.00	484288	248.3204 ng/ml
Alprazolam	5.756	1004137	13118.30	101.7	3631.29	102847	250.6346 ng/ml
Amphetamine	3.001	2354105	16609.95	53.7	17860.72	139658	229.2973 ng/ml
Benzoylcegonine	3.853	100708	1009.79	7.8	846.01	15968	251.0185 ng/ml
Buprenorphine	5.841	27150	417.64	14.9	935.41	35997	24.6973 ng/ml
Bupropion	4.773	2023985	3325.29	58.0	20619.37	298589	251.4067 ng/ml
Carisoprodol	5.705	627230	1886.18	53.5	3876.16	126395	253.2289 ng/ml
Citalopram	5.209	823955	1325.64	42.0	4573.87	153500	245.9020 ng/ml
Clonazepam	5.593	183806	1233.27	34.2	838.02	8765	263.6778 ng/ml
Cocaine	4.243	2633182	122561.79	44.0	488687.29	810863	245.9610 ng/ml
Codeine	2.496	321182	887.01	99.9	266.54	56688	260.8719 ng/ml
Cyclobenzaprine	5.617	469034	3209.96	10.0	138.05	70803	245.9983 ng/ml
Dextromethorphan	5.252	407808	3705.60	79.0	919.41	74475	249.2957 ng/ml
Dextroprphan	4.100	633690	2505.59	211.6	48736.10	332965	248.6962 ng/ml
Diazepam	5.934	544731	1045.93	88.0	2428.85	103275	249.5188 ng/ml
Dihydrocodeine	2.474	922993	35162.36	67.3	10546.55	219641	256.1646 ng/ml
Diphenhydramine	5.279	1872605	3333.30	33.6	960.85	552284	243.8003 ng/ml
Doxylamine	4.521	5984335	11321.70	96.9	35645.34	1029247	270.0984 ng/ml
EDDP	5.251	1621453	13836.26	42.0	65899.33	353264	248.9645 ng/ml
Fentanyl	5.092	50065	466.09	72.3	628.66	110409	25.5454 ng/ml
Fluoxetine	5.702	472341	1642.51	9.2	6470.11	83592	245.4887 ng/ml
Hydrocodone	2.991	825533	∞	41.6	∞	214951	266.8520 ng/ml
Hydromorphone	1.581	678467	1045.32	78.5	1122.93	105455	254.3113 ng/ml
Ketamine	4.033	2435264	2542.81	37.8	8057.40	477571	255.0199 ng/ml
Lamotrigine	4.261	178028	26367.60	79.4	4356.23	477571	210.6399 ng/ml
Lorazepam	5.734	68513	805.07	57.2	467.56	8765	231.7925 ng/ml
Meprobamate	4.881	172238	∞	25.9	881.16	37693	254.6981 ng/ml
Methadone	5.648	1088741	1144.27	53.5	42744.14	210605	245.5138 ng/ml
Methamphetamine	3.188	2161508	4481.27	42.5	2654.66	392978	258.8081 ng/ml
Metoprolol	4.313	463554	35354.08	95.9	17357.72	1127203	249.3996 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	2079227	100137.21	49.4	22804.69	484288	175.3821 ng/ml
Mitragynine	5.227	190196	32148.93	39.3	9146.91	210605	264.2915 ng/ml
Morphine	1.220	103759	355.37	23.3	1608.28	4980	243.1052 ng/ml
Norbuprenorphine	4.976	1566	157.37	88.7	70.16	3103	24.7853 ng/ml
Nordiazepam	5.881	133086	1838.68	57.4	1868.25	17462	248.5513 ng/ml
Norfentanyl	4.068	346527	23034.49	37.4	1168.82	542953	25.6562 ng/ml
Norhydrocodone	3.039	144354	457.07	44.1	573.47	49964	245.4838 ng/ml
Noroxycodone	2.876	552721	1594.94	48.9	3625.33	71582	250.8828 ng/ml
O-desmethyl-tramadol	3.348	6233506	209063.64	5.9	2795.38	1346149	253.9729 ng/ml
Oxazepam	5.738	66390	264.26	67.6	∞	16745	253.8907 ng/ml
Oxycodone	2.794	1547700	8338.23	32.1	3915.30	305568	244.7788 ng/ml
Oxymorphone	1.376	494361	∞	47.2	∞	74825	250.4429 ng/ml
Phentermine	3.751	571753	12627.97	2.5	944.68	329295	244.3706 ng/ml
Promethazine	5.534	1042726	99829.93	29.8	1318.38	191545	247.3956 ng/ml
Quetiapine	5.551	1741457	2727.81	59.7	3115.21	91666	255.2117 ng/ml
Sertraline	5.770	236862	1147.63	90.6	14284.53	40990	247.6219 ng/ml
Temazepam	5.798	589246	2519.36	29.7	847.47	122211	253.7206 ng/ml
Tramadol	4.226	5021281	155662.04	3.3	1240.79	1127203	257.2559 ng/ml
Trazodone	5.160	1226354	2460.79	80.1	∞	218366	254.3584 ng/ml
Venlafaxine	5.027	3552684	3531.95	36.0	1288.82	755091	246.0332 ng/ml
Zolpidem	4.918	5539296	453493.78	30.1	3810.33	1071404	256.4748 ng/ml



# AM #28 Multi-Drug Quant. Results

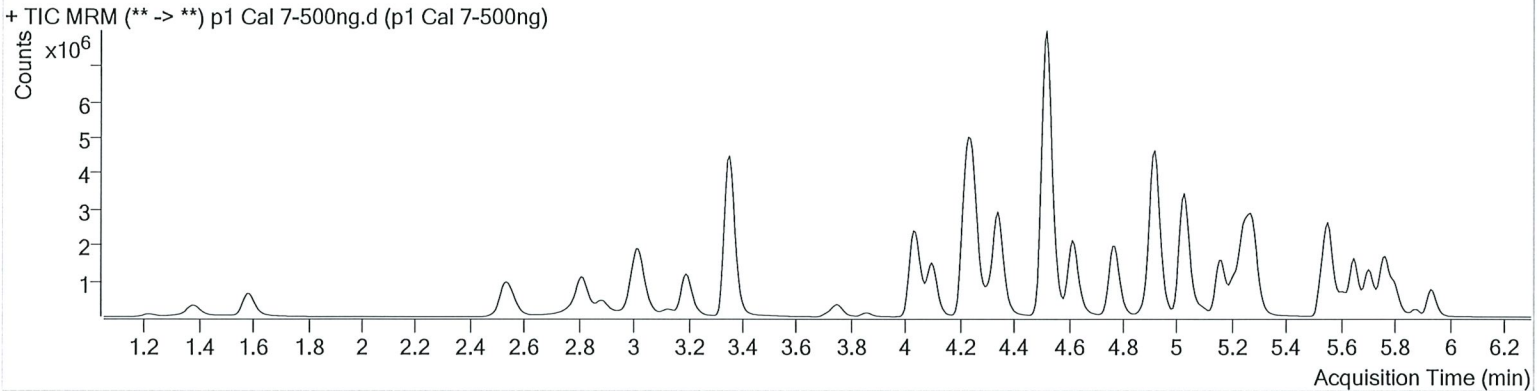
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 7-500ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-G1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:48:12 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	94226	20022.49	71.0	2740.18	41698	50.7459 ng/ml
7-aminoclonazepam	4.237	542945	10174.72	81.3	18812.58	61529	403.4666 ng/ml
a-hydroxyalprazolam	5.680	205147	531.36	61.1	804.22	8733	496.6138 ng/ml
alpha-PVP	4.344	4649242	99892.26	50.6	85052.43	414649	498.6282 ng/ml
Alprazolam	5.756	1654213	2523.91	102.5	∞	84371	503.0514 ng/ml
Amphetamine	3.021	2957997	24854.23	53.1	151136.06	109561	367.8974 ng/ml
Benzoylcegonine	3.853	185951	25326.26	7.7	862.35	14353	515.9822 ng/ml
Buprenorphine	5.841	52279	615.10	15.5	419.13	32024	53.2854 ng/ml
Bupropion	4.773	3380537	567780.65	57.9	4515.77	250289	501.4536 ng/ml
Carisoprodol	5.712	1024818	6154.20	54.9	3881.66	107344	487.2173 ng/ml
Citalopram	5.209	1588563	4290.02	40.9	1232.87	147543	493.2916 ng/ml
Clonazepam	5.593	340612	2284.71	33.6	4021.56	8701	492.5151 ng/ml
Cocaine	4.243	4404642	265955.55	43.5	161269.41	672705	495.5566 ng/ml
Codeine	2.556	504180	17616.24	99.7	5203.81	48723	477.1851 ng/ml
Cyclobenzaprine	5.617	916100	∞	10.2	6543.29	68241	498.5376 ng/ml
Dextromethorphan	5.252	741709	23664.03	78.6	13627.33	69287	487.0810 ng/ml
Dextrorphan	4.100	1088023	2202.95	211.0	22152.59	284809	499.2036 ng/ml
Diazepam	5.934	934417	937.33	87.9	3174.90	88192	501.3892 ng/ml
Dihydrocodeine	2.528	1493765	7700.13	67.7	5721.68	218344	417.6000 ng/ml
Diphenhydramine	5.279	3498427	109727.39	33.4	1281.43	504653	498.0280 ng/ml
Doxylamine	4.521	11166042	∞	96.1	404702.01	973102	534.5322 ng/ml
EDDP	5.251	2984134	1678.96	42.0	∞	323994	499.7980 ng/ml
Fentanyl	5.086	103921	495.74	73.4	34868.98	116952	50.1750 ng/ml
Fluoxetine	5.702	869209	33619.35	9.2	∞	76357	494.5868 ng/ml
Hydrocodone	2.998	1460938	∞	43.1	∞	217159	467.8257 ng/ml
Hydromorphone	1.587	1204518	774.86	78.2	1578.33	95075	501.2464 ng/ml
Ketamine	4.033	4263677	11599.37	37.7	2801.29	435424	490.3005 ng/ml
Lamotrigine	4.268	254372	8628.17	78.9	41559.37	435424	330.8511 ng/ml
Lorazepam	5.734	141898	10220.60	59.2	2904.18	8701	478.9639 ng/ml
Meprobamate	4.881	315575	432.36	25.6	3085.33	36700	480.0555 ng/ml
Methadone	5.648	2136185	1569.77	53.9	6776.72	205305	494.0410 ng/ml
Methamphetamine	3.195	2470483	24429.78	42.4	25226.44	245028	474.9994 ng/ml
Metoprolol	4.306	749942	14572.40	96.8	10418.07	1007291	452.1196 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	3756442	214304.12	49.1	125951.87	414649	367.1234 ng/ml
Mitragynine	5.227	360974	32593.47	39.2	102070.42	205305	516.5056 ng/ml
Morphine	1.220	186580	∞	22.9	∞	4329	503.6694 ng/ml
Norbuprenorphine	4.976	2904	386.59	83.1	171.85	2871	49.7714 ng/ml
Nordiazepam	5.881	250632	8268.97	56.8	2321.43	15981	511.8900 ng/ml
Norfentanyl	4.068	605640	125404.45	37.9	501.24	445264	54.6466 ng/ml
Norhydrocodone	3.046	256976	∞	42.5	∞	41750	522.1548 ng/ml
Noroxycodone	2.883	947697	885.57	49.0	1552.68	63146	487.9030 ng/ml
O-desmethyl-tramadol	3.354	10942286	189888.98	5.8	23971.82	1180130	508.6290 ng/ml
Oxazepam	5.738	137291	1530.60	70.4	1303.50	17716	496.6621 ng/ml
Oxycodone	2.807	3096722	4903.85	31.8	∞	303396	493.8168 ng/ml
Oxymorphone	1.376	873516	∞	48.4	1143.38	65771	503.8123 ng/ml
Phentermine	3.751	871193	∞	2.5	8723.56	269932	455.4421 ng/ml
Promethazine	5.534	2101028	2919.42	30.3	8212.17	193272	493.9373 ng/ml
Quetiapine	5.558	3167536	7700.61	59.4	72707.35	85179	499.8625 ng/ml
Sertraline	5.770	388653	1019.39	89.7	16281.56	32870	506.1456 ng/ml
Temazepam	5.805	1107895	2834.91	29.6	2636.07	115717	503.7236 ng/ml
Tramadol	4.226	8485652	556125.94	3.3	1697.10	1007291	487.5108 ng/ml
Trazodone	5.160	2463127	329873.89	79.0	1533.63	220829	505.7287 ng/ml
Venlafaxine	5.027	6486345	235037.10	35.6	14136.68	670954	505.0773 ng/ml
Zolpidem	4.918	9832674	679048.50	29.6	227282.48	993965	491.1952 ng/ml

# AM #28 Multi-Drug Quant. Results

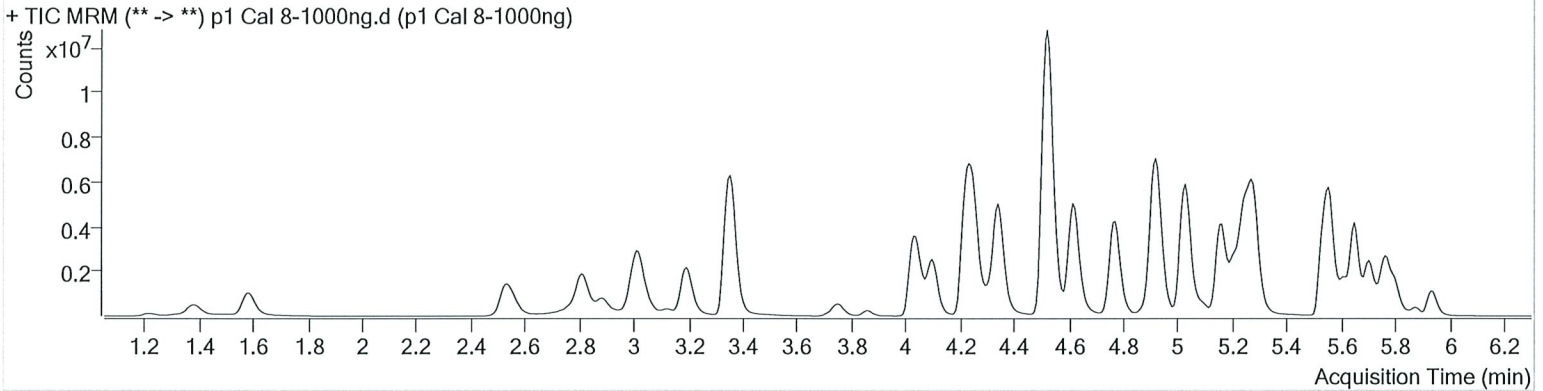
TS



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021220 AM 27 28 wklst 3988 3989 TS\QuantResults\MDQ TS.batch.bin  
**Calibration Last Update** 2/13/2020 8:28:46 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 8-1000ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P1-H1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/12/2020 4:58:46 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	174208	1768.56	71.8	29905.61	37836	103.4540 ng/ml
7-aminoclonazepam	4.244	569779	55521.90	79.7	∞	38256	681.9991 ng/ml
a-hydroxyalprazolam	5.680	367683	2057.67	62.5	545.32	7542	1030.8317 ng/ml
alpha-PVP	4.344	8644643	477535.41	50.4	112362.17	381690	1007.0156 ng/ml
Alprazolam	5.763	2439798	4489.31	103.0	3976.61	62513	1001.1121 ng/ml
Amphetamine	3.021	4594032	55120.11	52.9	57524.36	112346	557.7523 ng/ml
Benzoylcegonine	3.853	423605	54751.64	7.9	4936.63	16302	1035.2012 ng/ml
Buprenorphine	5.841	157432	3326.91	16.0	∞	38217	134.2343 ng/ml
Bupropion	4.773	7576678	526376.58	57.1	315180.22	283161	993.9262 ng/ml
Carisoprodol	5.712	1386486	1324.49	54.7	2360.03	70965	997.1195 ng/ml
Citalopram	5.209	3804647	3224.71	40.3	2096.20	172468	1010.7712 ng/ml
Clonazepam	5.593	564046	24047.14	34.1	14405.20	7918	896.5625 ng/ml
Cocaine	4.250	6789362	139655.29	42.8	73395.93	506973	1013.1821 ng/ml
Codeine	2.556	796874	3267.46	97.4	645.02	39552	929.9164 ng/ml
Cyclobenzaprine	5.617	2656652	159924.47	9.9	9883.78	97692	1009.9200 ng/ml
Dextromethorphan	5.252	1691340	26438.05	78.5	923.07	75800	1014.9477 ng/ml
Dextrophan	4.100	1990856	5225.99	211.3	34619.07	259238	1003.5432 ng/ml
Diazepam	5.934	1489798	796.60	86.0	17690.01	72952	966.5555 ng/ml
Dihydrocodeine	2.528	2365637	87124.99	67.6	4439.74	203254	711.0681 ng/ml
Diphenhydramine	5.279	8364423	3738.25	33.1	1340.18	592802	1013.2496 ng/ml
Doxylamine	4.523	19652303	1039135.61	97.1	∞	978940	936.3127 ng/ml
EDDP	5.244	6283364	91022.42	40.9	55055.77	332552	1025.5022 ng/ml
Fentanyl	5.086	345912	46756.42	73.9	515620.82	186655	104.7769 ng/ml
Fluoxetine	5.702	2523808	434050.20	8.6	19914.83	108368	1011.8933 ng/ml
Hydrocodone	2.998	2698477	∞	41.5	∞	205783	912.3688 ng/ml
Hydromorphone	1.587	2063505	735.01	78.2	654.76	84228	969.7302 ng/ml
Ketamine	4.033	7125869	258806.76	37.2	26649.80	390367	914.5731 ng/ml
Lamotrigine	4.268	310656	∞	78.6	61672.72	390367	451.1723 ng/ml
Lorazepam	5.728	285872	∞	56.6	1512.54	7918	1055.2201 ng/ml
Meprobamate	4.881	519000	334.96	25.8	1408.93	32365	896.0199 ng/ml
Methadone	5.648	5862372	4079.19	53.0	3281.26	274965	1012.2090 ng/ml
Methamphetamine	3.195	4758673	100730.19	42.0	26755.30	263264	852.1325 ng/ml
Metoprolol	4.306	1194663	105745.00	96.7	∞	891915	813.9948 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	9305239	10136.11	48.6	1117082.13	381690	983.4601 ng/ml
Mitragynine	5.220	888335	46162.40	39.4	48894.60	274965	950.7989 ng/ml
Morphine	1.220	298275	13966.62	24.9	11457.57	3823	912.4405 ng/ml
Norbuprenorphine	4.976	8468	415.94	82.4	1900.98	4145	100.6387 ng/ml
Nordiazepam	5.881	445717	2926.89	57.7	3718.70	14317	1016.4858 ng/ml
Norfentanyl	4.068	1102810	78270.51	37.5	∞	354963	124.7839 ng/ml
Norhydrocodone	3.046	470216	∞	42.0	564.11	34589	1152.3618 ng/ml
Noroxycodone	2.883	1584869	∞	49.0	880.14	53634	960.9053 ng/ml
O-desmethyl-tramadol	3.354	17355977	132293.28	6.0	44435.60	950352	1001.8994 ng/ml
Oxazepam	5.738	284519	∞	71.7	7600.95	18134	1005.9903 ng/ml
Oxycodone	2.807	5635138	5969.69	31.7	10435.25	280731	971.6673 ng/ml
Oxymorphone	1.376	1449983	934.90	48.8	1139.01	57494	957.0307 ng/ml
Phentermine	3.751	1583061	15933.78	2.4	1576.64	278660	802.7360 ng/ml
Promethazine	5.534	6337060	16622.12	29.3	3272.73	285253	1009.3098 ng/ml
Quetiapine	5.558	6759195	4802.81	60.2	5457.63	94544	961.2893 ng/ml
Sertraline	5.777	1019763	1851.23	88.5	4373.67	43667	999.1713 ng/ml
Temazepam	5.805	1944427	2556.61	29.5	1452.02	99779	1025.1783 ng/ml
Tramadol	4.219	13189307	∞	3.3	4632.29	891915	856.6179 ng/ml
Trazodone	5.160	6556605	469827.43	78.2	319975.86	331160	898.1261 ng/ml
Venlafaxine	5.027	12132592	657821.97	35.4	69929.60	630898	1004.2974 ng/ml
Zolpidem	4.918	16023605	799877.26	30.3	502.99	866523	918.6337 ng/ml