
















**REVIEWED**  
By Tamara Salazar at 1:05 pm, Dec 01, 2020

**REVIEWED**  
By Tamara Salazar at 11:54 am, Dec 09, 2020

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11/30/2020

**Worklist: 4639**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0952	16	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-4577	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-4627	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-4670	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-4728	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3453	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3454	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3458	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3461	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3463	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3480	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3505	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3506	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3522	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-3524	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 11/25/20  
 Plate lot#: IDP-111-2-200513

Analyst: Sarah Pickle  
 Plate Expiration: 11/13/20

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

**Blank Blood Lot:** Lampire 20L20725  
**LCMS-QQQ ID:** 069901

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

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

### Pre-Analytic:

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

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250 µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL 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)*
- 8. Wait 5 minutes.
- 9. Add **900 µL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left)*.
- 12. Add **900 µL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(12-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in **100 µL 20% LCMS MeOH in water** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.
- 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: alpha-hydroxyalprazolam 5-500, Amphetamine 5-500, Benzoylcegonine 5-500, Dihydrocodeine 5-500, Fentanyl 0.5-50, Ketamine 5-500, Lamotrigine 5-250, Lorazepam 5-250, MDA 5-500, Meprobamate 5-500, Metoprolol 5-500, Mirtazapine 5-500, Mitragynine 5-500, Norbuprenorphine 2.5-100, Norfentanyl 0.5-50, Norhydrocodone 5-500, Quetiapine 5-500*



# Idaho State Police Forensic Services

## 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: 031820)

*100 µL of 1mg/mL stock was added to each drug to 9700 µL of LC MeOH.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

WS112320 12/7/20

### Blood External Control Solution (Lot: ~~WS031820~~ <sup>WS112320</sup>)

*100 µL of methanol external control solution was added to 9900 µL of blood.*

*Approximately 100 ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	20K20702
Methanol External Control Solution		031820
Prepared:	11/23/20	
Prepared by:	Sophia Jackson	
Expires:	03/18/21	

# AM #28 Multi-Drug Quant. Results

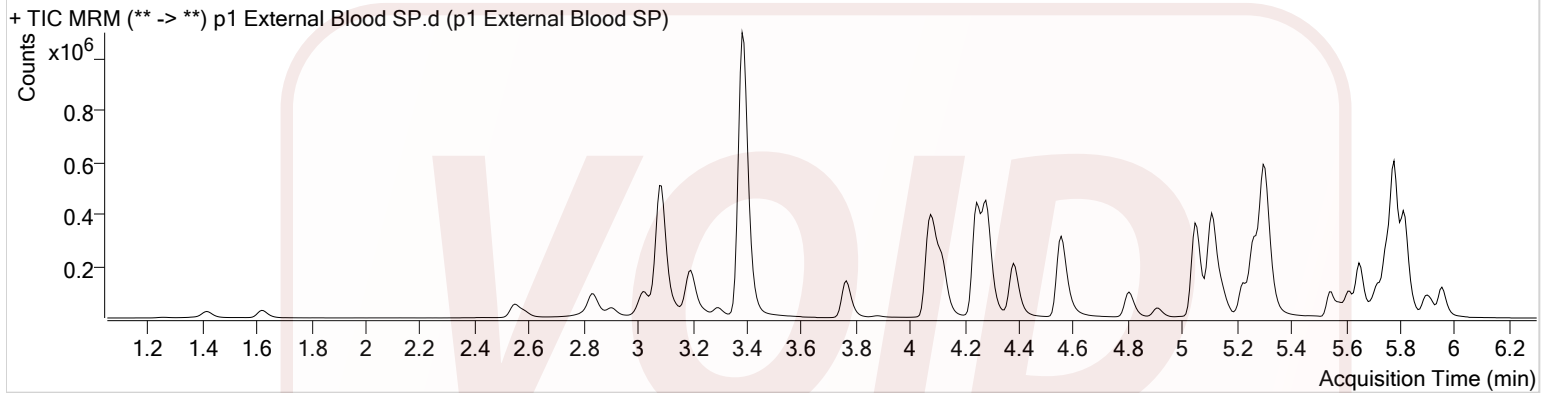


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 External Blood SP.d
<b>Type</b>	Sample	<b>Sample</b>	p1 External Blood SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-G5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 10:00:10 PM		

**Sample Info.** Refer to external blood control at the end of document.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.778	519648	1813.33	104.7	2213.72	163118	80.5425 ng/ml
Amphetamine	3.084	961764	283.69	51.3	7152.20	97192	86.2753 ng/ml
O-desmethyl-tramadol	3.390	1624966	154120.80	6.9	720.45	1131309	80.6666 ng/ml

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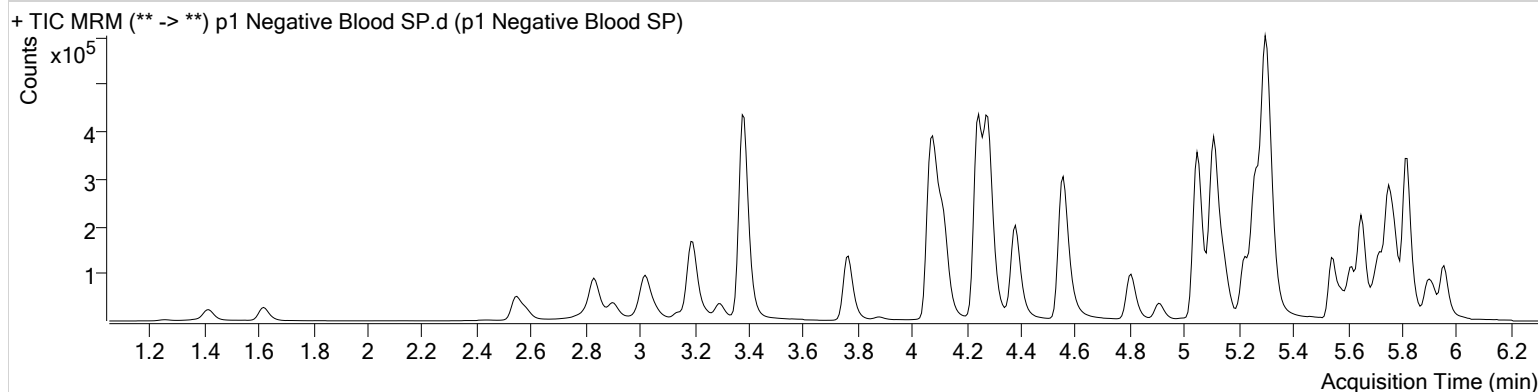


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 Negative Blood SP.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative Blood SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-F5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 9:49:33 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



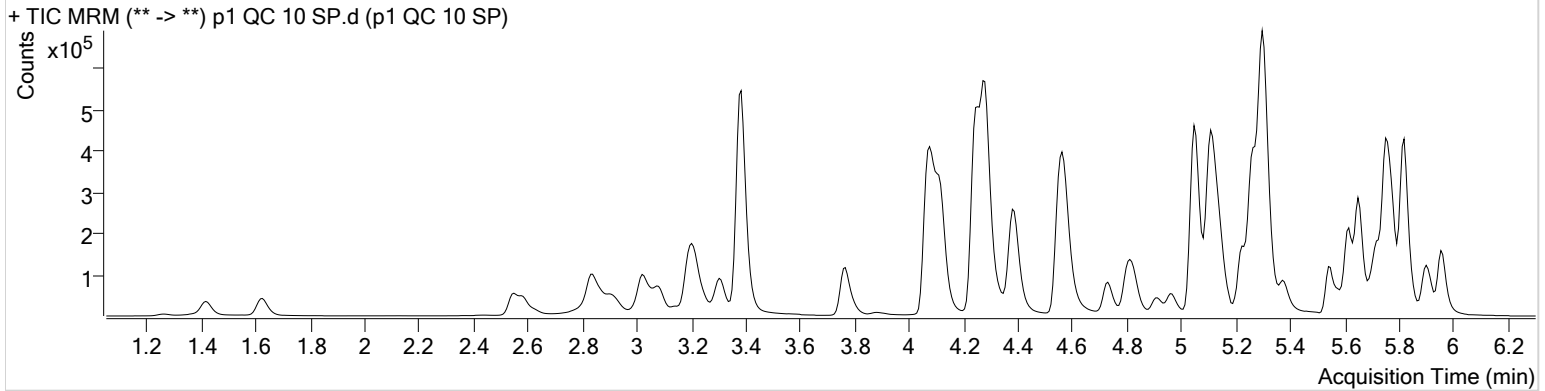
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 QC 10 SP.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 10 SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-A5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 8:24:41 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	2019	365.63	64.2	5121.68	31546	1.0370 ng/ml
7-aminoclonazepam	4.298	40888	∞	73.6	2696.40	143425	9.8570 ng/ml
a-hydroxyalprazolam	5.701	23106	541.26	59.1	91.48	40537	9.6847 ng/ml
alpha-PHP	4.969	32520	2618.38	271.2	7213.68	532897	10.0134 ng/ml
alpha-PVP	4.396	119244	355.15	49.8	4259.89	532897	10.1824 ng/ml
Alprazolam	5.778	68354	789.10	109.3	2092.17	174741	10.1395 ng/ml
Amphetamine	3.084	91495	1069.89	51.2	759.01	71568	9.8878 ng/ml
Benzoylcegonine	3.905	3881	376.80	8.3	∞	12583	10.8491 ng/ml
Buprenorphine	5.971	2060	45.32	15.7	545.58	76103	1.0382 ng/ml
Bupropion	4.828	99711	8155.01	62.8	332.85	284515	10.2419 ng/ml
Carisoprodol	5.727	43429	2510.51	54.1	402.63	220655	10.1738 ng/ml
Citalopram	5.224	67982	885.07	42.6	1969.28	313983	10.0051 ng/ml
Clonazepam	5.615	95384	418.02	31.8	115.01	92037	10.4098 ng/ml
Cocaine	4.277	124951	15121.57	44.4	770.93	808728	10.1089 ng/ml
Codeine	2.630	10564	493.21	106.9	598.83	48307	9.3312 ng/ml
Cyclobenzaprine	5.625	19696	368.16	10.4	∞	69029	10.6465 ng/ml
Dextromethorphan	5.273	34204	1729.95	81.8	583.18	155096	10.0963 ng/ml
Dextrorphan	4.117	27954	809.81	200.5	1858.61	380077	10.0333 ng/ml
Diazepam	5.963	49623	4424.21	86.8	275.58	234829	10.3339 ng/ml
Dihydrocodeine	2.582	28660	2955.71	67.7	620.34	144537	10.0117 ng/ml
Diphenhydramine	5.301	136935	8808.87	33.3	∞	1113789	10.1000 ng/ml
Doxylamine	4.575	225607	4319.40	99.9	3046.67	907742	10.3334 ng/ml
EDDP	5.265	100821	1111.64	43.5	456.41	603131	9.4874 ng/ml
Fentanyl	5.162	3130	75.97	63.8	4741.50	151524	0.9487 ng/ml
Fluoxetine	5.710	15526	487.62	8.4	133.50	60212	10.5498 ng/ml
Hydrocodone	3.054	33936	253.66	39.9	266.55	221454	10.4058 ng/ml
Hydromorphone	1.634	25668	744.66	77.5	1730.36	83308	9.7781 ng/ml
Ketamine	4.112	96600	6546.72	36.5	190.64	412090	9.6478 ng/ml
Lamotrigine	4.320	8476	1531.78	86.5	6366.59	412090	10.5760 ng/ml
Lorazepam	5.749	92028	∞	52.8	303.05	92037	10.6360 ng/ml
MDA	3.218	141134	3134.31	17.6	339.16	224421	10.4713 ng/ml
MDMA	3.311	100428	7576.19	59.5	1524.09	81727	10.3440 ng/ml
Meprobamate	4.936	18027	10110.96	26.6	244.85	91221	10.0435 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	99072	354.82	50.5	715.91	414008	10.0928 ng/ml
Methamphetamine	3.252	38161	88.57	42.9	44.40	172642	10.5380 ng/ml
Metoprolol	4.339	19118	1048.67	92.3	470.84	1076999	10.6324 ng/ml
Mirtazapine	4.731	133337	2398.89	52.6	4569.79	532897	9.5427 ng/ml
Mitragynine	5.288	13583	29772.60	39.8	293.20	414008	10.0319 ng/ml
Morphine	1.273	4267	676.59	41.8	679.69	6492	10.2198 ng/ml
* Norbuprenorphine	<del>5.004</del>	<del>205</del>	<del>∞</del>	<del>84.4</del>	<del>646.99</del>	<del>6721</del>	<del>1.5324 ng/ml</del>
Nordiazepam	5.903	46252	1063.50	56.4	362.23	146889	10.2197 ng/ml
Norfentanyl	4.092	18710	1972.44	35.8	161.45	852721	1.0222 ng/ml
Norhydrocodone	3.081	2446	234.82	40.1	91.19	30164	10.2971 ng/ml
Noroxycodone	2.925	36225	707.23	45.4	2588.60	104856	10.3048 ng/ml
O-desmethyl-tramadol	3.383	215394	4695.97	6.9	∞	1170353	9.9633 ng/ml
Oxazepam	5.759	84190	791.70	69.2	∞	528424	10.3756 ng/ml
Oxycodone	2.863	76557	2127.13	29.0	905.61	313604	10.0675 ng/ml
Oxymorphone	1.423	25908	128.62	44.1	459.05	79812	9.9954 ng/ml
Phentermine	3.797	23713	229.86	2.7	∞	306337	10.3613 ng/ml
Promethazine	5.549	49187	182.42	29.1	104.94	210255	9.9594 ng/ml
Quetiapine	5.607	67679	3200.72	57.2	3403.56	88838	10.7457 ng/ml
Sertraline	5.779	6564	225.18	93.6	100.80	25485	10.8787 ng/ml
Temazepam	5.826	130024	1901.24	33.3	545.81	731793	9.9476 ng/ml
Tramadol	4.259	221336	8569.41	3.7	270.00	1076999	10.3165 ng/ml
Trazodone	5.377	84279	6273.10	79.6	5306.44	353826	9.7911 ng/ml
Venlafaxine	5.048	175247	9233.21	34.4	678.00	954950	10.5358 ng/ml
Zolpidem	5.135	205005	14992.12	32.4	∞	1043954	10.1256 ng/ml

\*OCR

# AM #28 Multi-Drug Quant. Results

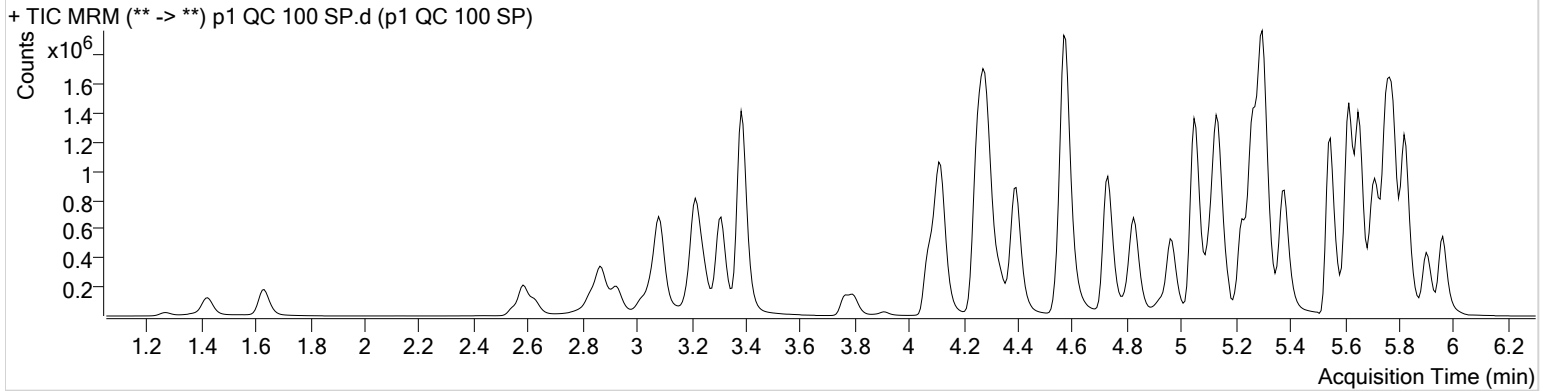


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

**Instrument** Instrument 1  
**Type** QC  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P6-B5  
**Injection Volume** 2  
**Acq. Date-Time** 11/26/2020 8:45:55 PM  
**Sample Info.**

**Data File** p1 QC 100 SP.d  
**Sample** p1 QC 100 SP  
**Operator** Sarah Pickle  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	20489	1075.81	71.5	474.33	33162	10.5554 ng/ml
7-aminoclonazepam	4.298	385708	∞	77.8	197.10	128407	100.4646 ng/ml
a-hydroxyalprazolam	5.701	209938	501.91	60.0	1273.73	37320	107.0948 ng/ml
alpha-PHP	4.962	351448	16964.95	274.6	51623.44	544107	104.9076 ng/ml
alpha-PVP	4.396	1253532	23122.70	49.8	∞	544107	107.4174 ng/ml
Alprazolam	5.778	651556	∞	109.1	603.51	157505	104.5014 ng/ml
Amphetamine	3.084	1160729	12931.73	50.7	13293.23	92164	110.1992 ng/ml
Benzoylcegonine	3.905	38421	3534.21	8.1	434.39	12787	97.0651 ng/ml
Buprenorphine	5.971	27114	5690.67	14.0	∞	96111	11.0939 ng/ml
Bupropion	4.828	986061	130766.86	63.5	432.87	278552	106.4442 ng/ml
Carisoprodol	5.727	409267	25030.18	54.6	1605.07	202389	107.5778 ng/ml
Citalopram	5.224	876908	28039.60	42.4	733840.51	399292	102.2610 ng/ml
Clonazepam	5.615	789961	1272.97	33.3	680.63	79108	106.1235 ng/ml
Cocaine	4.277	1282996	2022568.51	44.8	40319.16	803817	105.7167 ng/ml
Codeine	2.624	112449	9381.88	103.8	1294.71	46082	101.1172 ng/ml
Cyclobenzaprine	5.625	613549	471.35	12.1	∞	207482	106.2046 ng/ml
Dextromethorphan	5.273	480697	28137.68	82.6	262.93	210918	105.7054 ng/ml
Dextrorphan	4.124	281971	11968.60	199.8	21644.05	374659	102.4267 ng/ml
Diazepam	5.963	491377	∞	87.3	12588.87	231101	106.9116 ng/ml
Dihydrocodeine	2.582	303360	19743.44	67.8	2598.92	147719	109.3544 ng/ml
Diphenhydramine	5.301	1730701	180250.29	34.0	299.88	1354342	105.2669 ng/ml
Doxylamine	4.575	2483302	86879.68	99.5	59641.98	982778	108.9714 ng/ml
EDDP	5.265	1150746	784.48	42.7	30239.33	651031	101.5691 ng/ml
Fentanyl	5.162	63798	2665.91	59.9	885.53	276415	10.2758 ng/ml
Fluoxetine	5.710	799131	∞	8.2	276338.02	314451	106.5120 ng/ml
Hydrocodone	3.054	330070	∞	42.7	186.11	219595	112.1829 ng/ml
Hydromorphone	1.634	269340	∞	75.3	1144.69	85351	102.6598 ng/ml
Ketamine	4.112	966628	∞	37.0	2217.31	421261	112.6752 ng/ml
Lamotrigine	4.320	83736	10634.83	84.3	11268.82	421261	101.6690 ng/ml
Lorazepam	5.749	740067	2503.53	55.4	∞	79108	107.3115 ng/ml
MDA	3.218	1395805	∞	17.4	8437.42	226610	109.2625 ng/ml
MDMA	3.311	1086192	119187.51	59.1	75022.97	86731	109.1353 ng/ml
Meprobamate	4.936	174191	10814.28	26.8	2884.33	87273	109.3497 ng/ml



# AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	1415683	7063.46	50.5	950.05	563446	105.7471 ng/ml
Methamphetamine	3.252	349581	5409.85	43.3	858.43	203522	116.7231 ng/ml
Metoprolol	4.339	189277	∞	93.2	7154.80	1120365	103.8120 ng/ml
Mirtazapine	4.731	1649180	111668.24	53.8	3612.50	544107	106.5527 ng/ml
Mitragynine	5.288	206230	∞	39.7	5945.46	563446	118.0064 ng/ml
Morphine	1.273	41946	629.08	42.2	358.52	6416	105.4445 ng/ml
Norbuprenorphine	4.998	2197	145.63	81.3	40683.31	8382	10.3619 ng/ml
Nordiazepam	5.903	457611	12739.48	55.5	1796.09	142001	106.8036 ng/ml
Norfentanyl	4.092	193679	∞	37.1	4038.96	903080	10.6489 ng/ml
Norhydrocodone	3.081	21124	∞	42.8	214.49	25061	102.1213 ng/ml
Noroxycodone	2.925	366820	1105.93	46.1	6325.44	101582	109.4020 ng/ml
O-desmethyl-tramadol	3.383	2269820	∞	6.9	10675.66	1185960	107.6281 ng/ml
Oxazepam	5.759	732826	104930.59	71.9	∞	452872	110.9530 ng/ml
Oxycodone	2.863	805140	6338.10	28.3	16410.42	318414	109.3077 ng/ml
Oxymorphone	1.423	254843	∞	42.7	600.04	75082	108.8787 ng/ml
Phentermine	3.803	283584	∞	2.4	245.29	347455	115.6341 ng/ml
Promethazine	5.549	1757174	47022.71	28.9	10617.67	709176	105.4386 ng/ml
Quetiapine	5.607	800302	48970.41	57.3	567427.75	109753	107.8058 ng/ml
Sertraline	5.779	360359	8000.57	96.6	1683.48	146272	101.6814 ng/ml
Temazepam	5.826	1329477	21768.47	32.2	666.91	721548	104.4523 ng/ml
Tramadol	4.259	2305283	163887.95	3.6	∞	1120365	110.0772 ng/ml
Trazodone	5.377	1160119	158788.63	80.0	∞	464461	102.2227 ng/ml
Venlafaxine	5.048	1882090	56575.52	35.1	15442.32	981302	110.2708 ng/ml
Zolpidem	5.129	2188766	176122.80	32.6	123382.23	1069348	111.8128 ng/ml

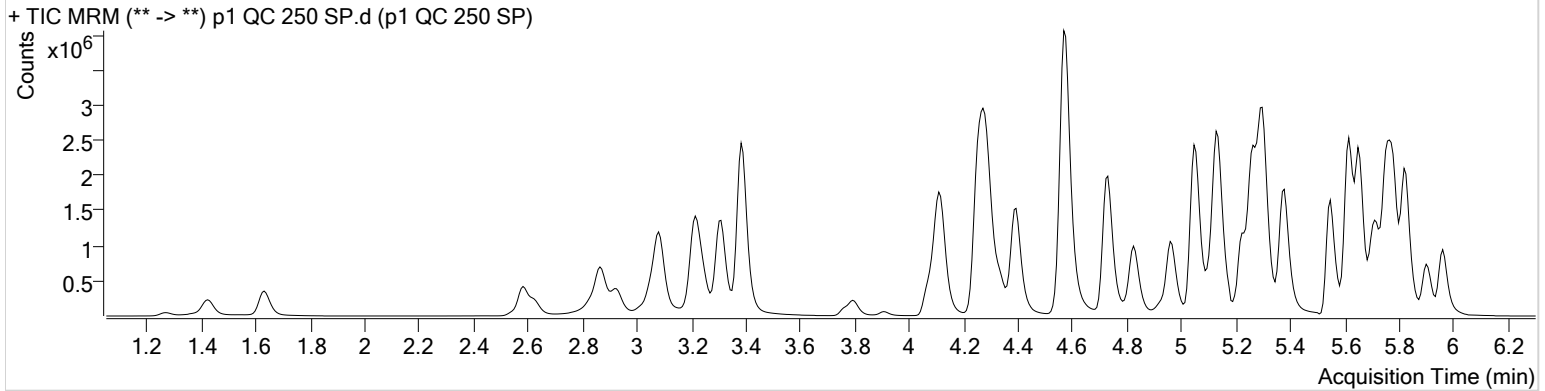
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 QC 250 SP.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 250 SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-C5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 9:07:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	46169	4589.44	72.5	4511.91	31549	25.0875 ng/ml
7-aminoclonazepam	4.298	774666	13132.44	77.5	14513.92	102850	251.3769 ng/ml
a-hydroxyalprazolam	5.701	433286	3168.56	61.1	∞	32535	255.3103 ng/ml
alpha-PHP	4.962	712566	11417.60	273.4	8526.19	452925	255.3607 ng/ml
alpha-PVP	4.396	2398980	131531.65	50.4	81630.59	452925	247.3191 ng/ml
Alprazolam	5.778	1315912	13287.26	107.8	1210.37	128179	258.9201 ng/ml
Amphetamine	3.084	2061998	20640.22	50.9	10646.79	77137	235.5234 ng/ml
Benzoylecgonine	3.905	94805	7304.06	7.7	3738.69	12243	248.6057 ng/ml
Buprenorphine	5.971	53322	∞	13.9	14006.26	81724	25.6955 ng/ml
Bupropion	4.828	1495271	57078.70	63.2	49118.11	181921	247.5848 ng/ml
Carisoprodol	5.727	775543	28579.68	55.4	1719.64	162193	254.8252 ng/ml
Citalopram	5.224	1816830	716.90	41.5	70087.78	335102	252.5802 ng/ml
Clonazepam	5.615	1441154	41005.11	33.2	31220.69	61610	249.4979 ng/ml
Cocaine	4.277	2635146	528920.19	45.1	277030.60	684609	255.1343 ng/ml
Codeine	2.624	239471	∞	104.0	10090.34	39569	250.3476 ng/ml
Cyclobenzaprine	5.625	936249	37558.11	12.2	∞	130946	256.1619 ng/ml
Dextromethorphan	5.273	852834	40445.08	82.2	16098.61	157657	251.0958 ng/ml
Dextrorphan	4.124	586323	1031.32	199.4	535271.79	318899	250.1859 ng/ml
Diazepam	5.963	987058	32102.36	87.3	∞	195180	254.7292 ng/ml
Dihydrocodeine	2.582	651393	19037.92	68.9	473.12	141990	245.0339 ng/ml
Diphenhydramine	5.301	3399393	135298.33	33.6	20545.99	1103880	253.7182 ng/ml
Doxylamine	4.568	5541651	∞	99.4	313671.07	922024	259.7889 ng/ml
EDDP	5.265	2466472	57812.16	43.1	3365.65	585865	242.0953 ng/ml
Fentanyl	5.162	119528	1324.49	60.5	149.49	204433	25.9818 ng/ml
Fluoxetine	5.710	1070579	101627.94	8.3	∞	174171	258.0242 ng/ml
Hydrocodone	3.054	713833	323.17	40.7	349.34	207940	257.6882 ng/ml
Hydromorphone	1.634	578202	1626.17	72.6	∞	76216	247.1778 ng/ml
Ketamine	4.112	1842708	∞	37.2	6789.33	351226	260.2958 ng/ml
Lamotrigine	4.320	168875	16186.04	84.8	∞	351226	245.8396 ng/ml
Lorazepam	5.749	1174427	∞	55.7	3682.58	61610	219.6309 ng/ml
MDA	3.218	2741195	59367.77	16.9	8993.97	195761	249.3629 ng/ml
MDMA	3.311	2277453	∞	60.1	∞	77282	257.3535 ng/ml
Meprobamate	4.936	335608	19245.32	26.2	2144.67	77547	238.1194 ng/ml

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# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	2822904	147949.45	48.7	66322.10	465017	255.4615 ng/ml
Methamphetamine	3.252	515611	2239.40	44.9	365.43	136116	263.6171 ng/ml
Metoprolol	4.339	389261	29666.35	94.6	4442.38	995455	240.6906 ng/ml
Mirtazapine	4.731	3491174	415104.05	53.3	125456.22	452925	269.7172 ng/ml
Mitragynine	5.288	363613	10675.04	39.1	∞	465017	252.7835 ng/ml
Morphine	1.273	91061	714.96	42.0	779.71	5803	253.7013 ng/ml
Norbuprenorphine	4.998	4866	19006.62	76.7	2265.43	6997	26.8805 ng/ml
Nordiazepam	5.903	916901	∞	55.9	21688.42	119886	253.8024 ng/ml
Norfentanyl	4.092	408848	987.50	37.3	∞	851663	23.9293 ng/ml
Norhydrocodone	3.075	43255	128.04	43.1	392.77	19850	263.1793 ng/ml
Noroxycodone	2.925	749287	3571.98	46.1	8200.00	87840	258.6745 ng/ml
O-desmethyl-tramadol	3.383	4975403	164665.56	6.9	1523.28	1080715	259.4941 ng/ml
Oxazepam	5.759	1296594	110340.80	70.4	∞	336756	264.8382 ng/ml
Oxycodone	2.863	1800480	5306.15	28.2	5282.83	304127	256.6408 ng/ml
Oxymorphone	1.423	527829	1367.57	43.8	∞	67261	252.3377 ng/ml
Phentermine	3.797	509007	2401.85	2.3	306.53	272076	265.9206 ng/ml
Promethazine	5.549	2810690	946.11	29.3	35461.38	469807	254.5777 ng/ml
Quetiapine	5.607	1674955	228344.65	58.9	∞	104647	237.3286 ng/ml
Sertraline	5.779	424874	8352.34	94.5	∞	73111	239.4768 ng/ml
Temazepam	5.826	2774820	23165.02	32.1	1437.82	620171	253.8419 ng/ml
Tramadol	4.259	4759547	336456.41	3.7	∞	995455	256.7826 ng/ml
Trazodone	5.377	2458836	∞	81.4	∞	407680	246.7667 ng/ml
Venlafaxine	5.048	4105900	4663.07	34.7	7991.39	890137	265.2241 ng/ml
Zolpidem	5.129	4747355	233727.96	32.4	74189.99	995570	261.3750 ng/ml

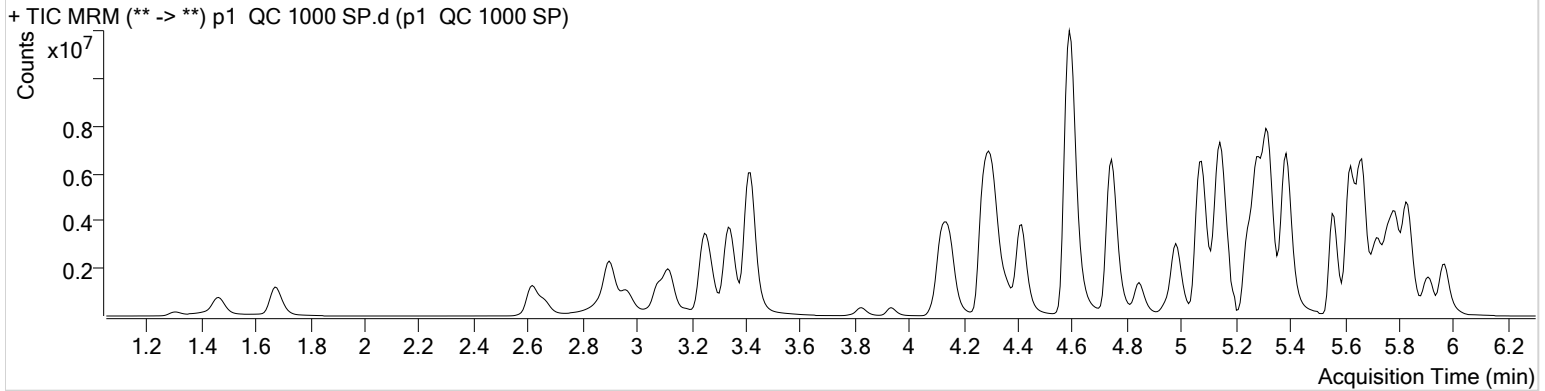
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 QC 1000 SP.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 1000 SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-D5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/27/2020 7:23:12 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.180	218968	68135.92	70.6	12352.91	44752	84.0299 ng/ml
7-aminoclonazepam	4.318	2046314	31427.09	76.2	30516.22	65934	1034.6881 ng/ml
* a-hydroxyalprazolam	5.708	1045061	∞	62.2	∞	29601	678.9807 ng/ml
alpha-PHP	4.982	2172834	116073.38	265.3	∞	306706	1149.5033 ng/ml
alpha-PVP	4.416	6648326	502204.40	51.5	176641.48	306706	1013.0133 ng/ml
Alprazolam	5.785	3801051	∞	107.0	∞	103790	922.9153 ng/ml
* Amphetamine	3.125	3072583	83254.65	52.2	10422.00	45431	598.0968 ng/ml
* Benzoylcegonine	3.932	595784	96396.62	8.3	55659.96	13302	1433.1898 ng/ml
Buprenorphine	5.971	135888	7596.41	14.7	18565.85	65154	82.2016 ng/ml
Bupropion	4.848	2019987	179897.10	64.1	16830.56	66327	918.2553 ng/ml
Carisoprodol	5.734	2503631	297.39	56.2	20244.49	127481	1047.6534 ng/ml
Citalopram	5.244	6076263	781758.17	41.3	6091406.46	279846	1011.7864 ng/ml
Clonazepam	5.636	2233314	26745.65	33.9	27279.61	29734	802.6135 ng/ml
Cocaine	4.297	7393013	288712.01	46.2	244957.54	498892	982.6409 ng/ml
Codeine	2.664	801035	∞	102.9	12399.99	31485	1051.4735 ng/ml
Cyclobenzaprine	5.632	2462240	1787109.79	11.0	∞	87165	1010.7545 ng/ml
Dextromethorphan	5.293	2198471	105678.20	80.0	125913.17	102678	994.3065 ng/ml
Dextrorphan	4.151	2181053	598.99	202.2	209160.25	260952	1137.2329 ng/ml
Diazepam	5.969	2895536	5583.30	88.4	∞	146627	995.6303 ng/ml
* Dihydrocodeine	2.616	2262199	52298.74	68.9	38351.89	159933	756.7622 ng/ml
Diphenhydramine	5.321	11495958	416137.51	35.4	95453.26	827361	1144.8886 ng/ml
Doxylamine	4.588	19123060	1113749.78	96.7	∞	930162	889.6666 ng/ml
EDDP	5.279	8777812	91505.82	41.8	42623.25	480371	1051.2275 ng/ml
* Fentanyl	5.176	525392	43631.89	62.3	∞	188079	124.0156 ng/ml
Fluoxetine	5.717	2265800	13039765.52	8.3	∞	90362	1053.4528 ng/ml
Hydrocodone	3.081	2715699	1247.68	44.4	3396.70	234188	873.2010 ng/ml
Hydromorphone	1.672	2216922	∞	73.1	∞	78816	917.1969 ng/ml
* Ketamine	4.125	5449415	∞	36.2	∞	319548	850.7488 ng/ml
* Lamotrigine	4.347	452203	871.00	86.0	∞	319548	723.4318 ng/ml
* Lorazepam	5.756	1486340	∞	56.0	2737.16	29734	577.4562 ng/ml
* MDA	3.251	7463876	434389.41	20.4	50542.91	208683	638.1194 ng/ml
MDMA	3.338	6633826	6794516.72	69.5	∞	66034	878.2782 ng/ml
* Meprobamate	4.957	1308983	82848.30	25.9	28345.99	106978	674.8233 ng/ml

# AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.662	9951634	1991.59	51.2	85478.76	433056	966.9826 ng/ml
Methamphetamine	3.279	559891	∞	42.8	1515.17	36760	1075.4857 ng/ml
* Metoprolol	4.360	1047755	∞	95.8	∞	894790	721.3546 ng/ml
* Mirtazapine	4.744	12629463	642695.39	53.2	525011.21	306706	1437.3381 ng/ml
* Mitragynine	5.302	893776	∞	39.9	∞	433056	668.1924 ng/ml
Morphine	1.307	355175	∞	43.0	6128.65	6250	919.7570 ng/ml
Norbuprenorphine	5.025	19690	18457.49	82.1	282.94	7742	97.3260 ng/ml
Nordiazepam	5.909	2562963	7434.07	55.6	23560.96	91859	926.5288 ng/ml
* Norfentanyl	4.106	1190898	∞	37.9	24097.27	868138	68.5181 ng/ml
* Norhydrocodone	3.108	269970	407.39	42.8	326.99	22240	1463.7150 ng/ml
Noroxycodone	2.966	2270769	368.74	44.9	11479.24	71733	960.4355 ng/ml
O-desmethyl-tramadol	3.417	16149249	528934.45	7.4	66472.30	915336	995.6588 ng/ml
Oxazepam	5.759	1917945	8709.12	66.5	65.33	142082	930.0395 ng/ml
Oxycodone	2.897	6955049	11668.70	28.5	5237.77	336118	898.3579 ng/ml
Oxymorphone	1.463	2138146	1826.47	46.4	∞	75712	909.2859 ng/ml
Phentermine	3.830	891979	4219.67	2.9	173.18	120514	1054.0238 ng/ml
Promethazine	5.557	7977469	788791.22	29.5	41734.64	332403	1021.2251 ng/ml
* Quetiapine	5.614	6067627	406920.87	60.1	272629.12	122923	733.1129 ng/ml
Sertraline	5.785	669877	27333.40	92.8	90192.07	27955	986.5993 ng/ml
Temazepam	5.833	8439511	78169.40	30.0	22434.99	452238	1059.1807 ng/ml
Tramadol	4.272	13590320	477422.71	4.0	18200.16	894790	817.3383 ng/ml
Trazodone	5.384	9911810	∞	84.0	∞	356471	1137.4682 ng/ml
Venlafaxine	5.075	13920401	598356.68	34.6	78413.60	736005	1087.5607 ng/ml
Zolpidem	5.142	15302296	∞	33.1	205369.50	966408	869.4652 ng/ml

\*OCR

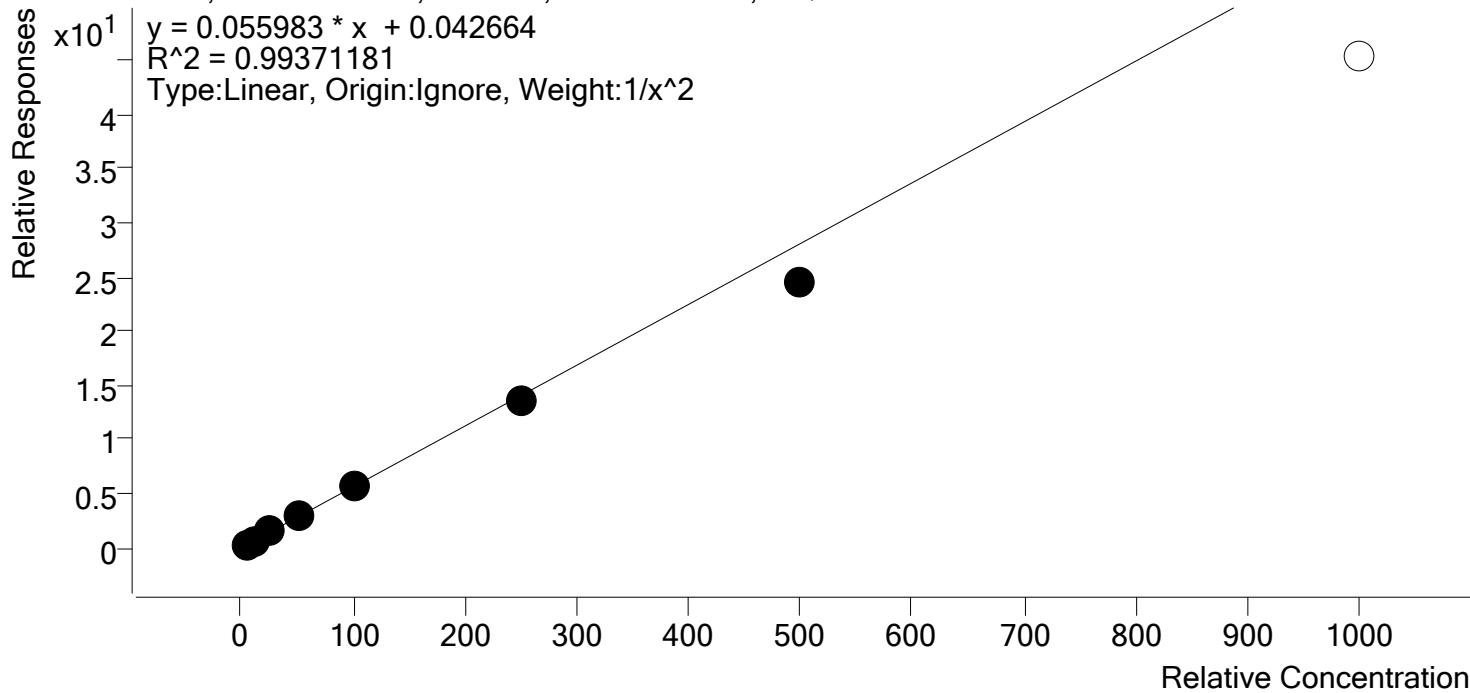
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDA **Internal Standard** MDA-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng SP	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng SP	3	✓	25.0	26.1	104.3
p1 Cal 4-50ng SP	4	✓	50.0	53.7	107.4
p1 Cal 5-100ng SP	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng SP	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng SP	7	✓	500.0	436.3	87.3
p1 Cal 8-1000ng SP	8	✗	1000.0	807.6	80.8

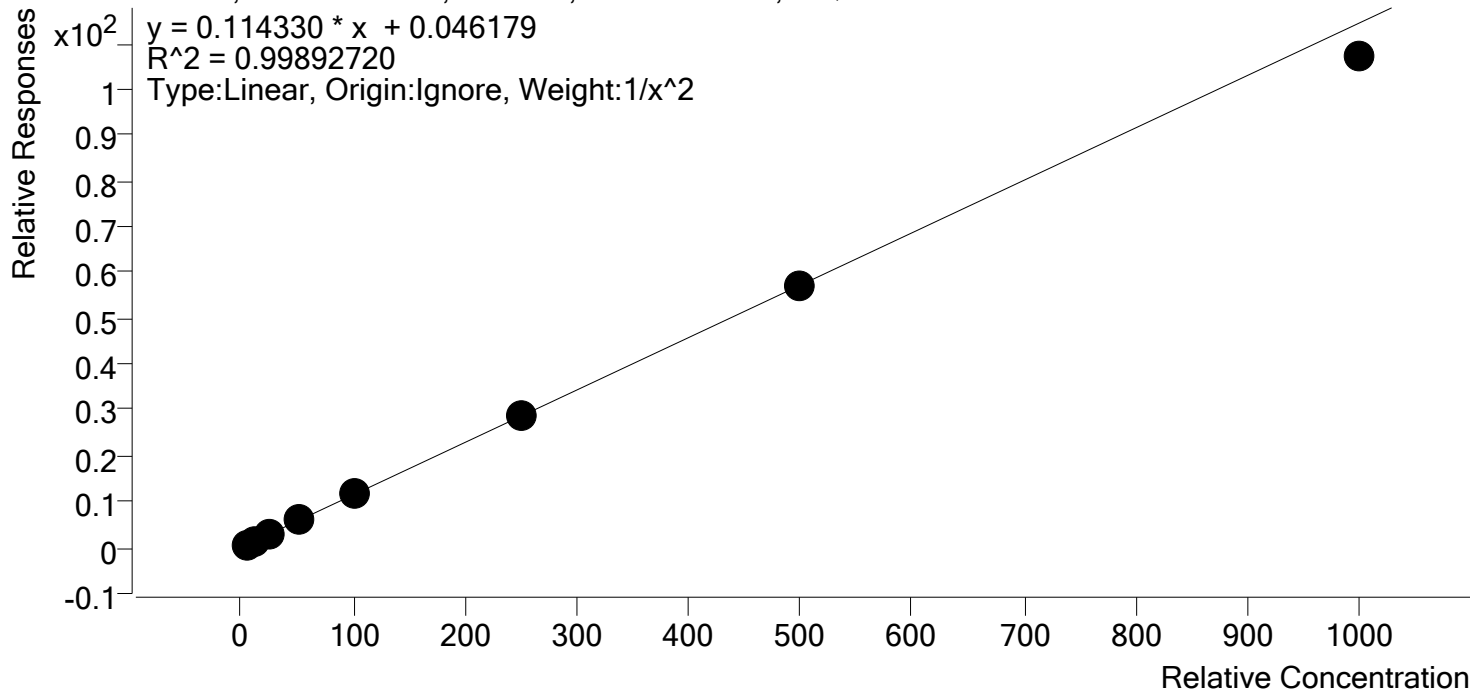
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDMA **Internal Standard** MDMA-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng SP	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng SP	4	✓	50.0	51.1	102.1
p1 Cal 5-100ng SP	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng SP	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng SP	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng SP	8	✓	1000.0	936.1	93.6

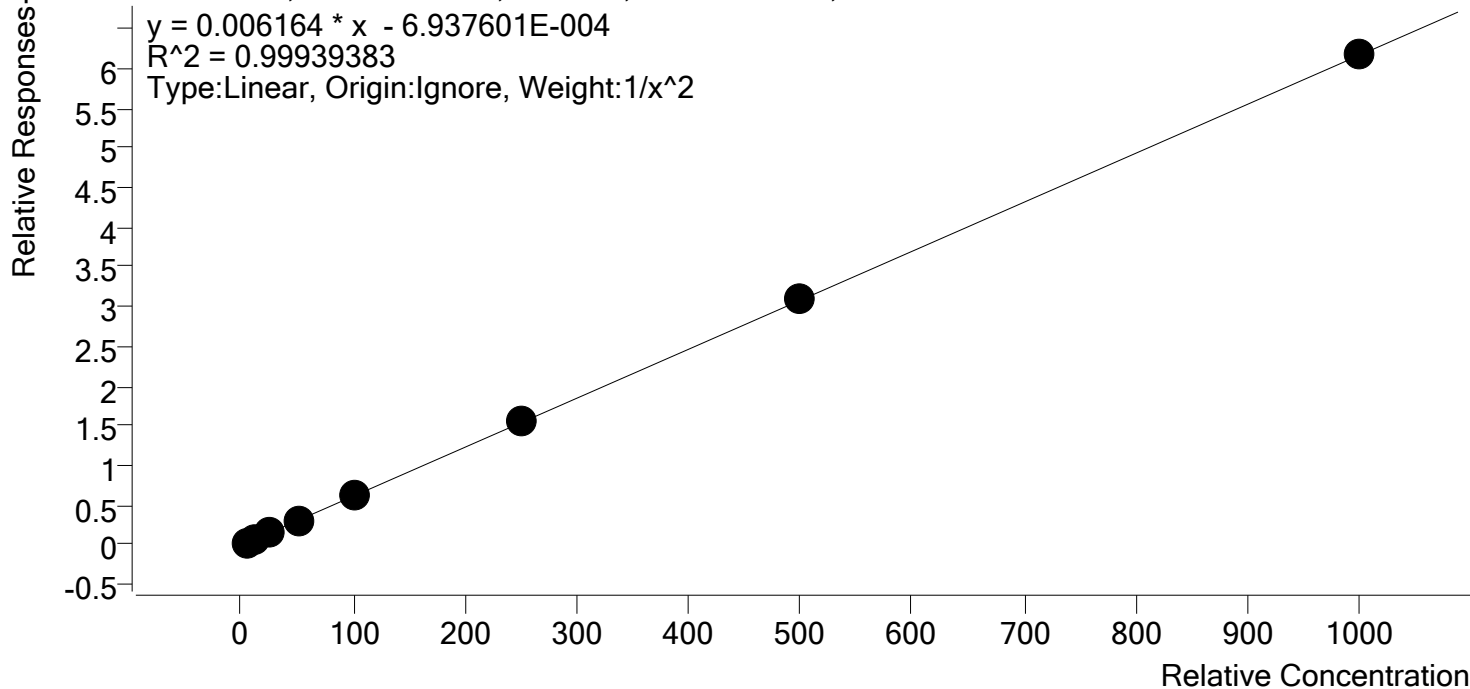
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PHP **Internal Standard** alpha-PVP-d8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	102.4
p1 Cal 2- 10ng SP	2	✓	10.0	9.5	95.1
p1 Cal 3 -25ng SP	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng SP	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng SP	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng SP	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng SP	7	✓	500.0	503.3	100.7
p1 Cal 8-1000ng SP	8	✓	1000.0	1001.6	100.2



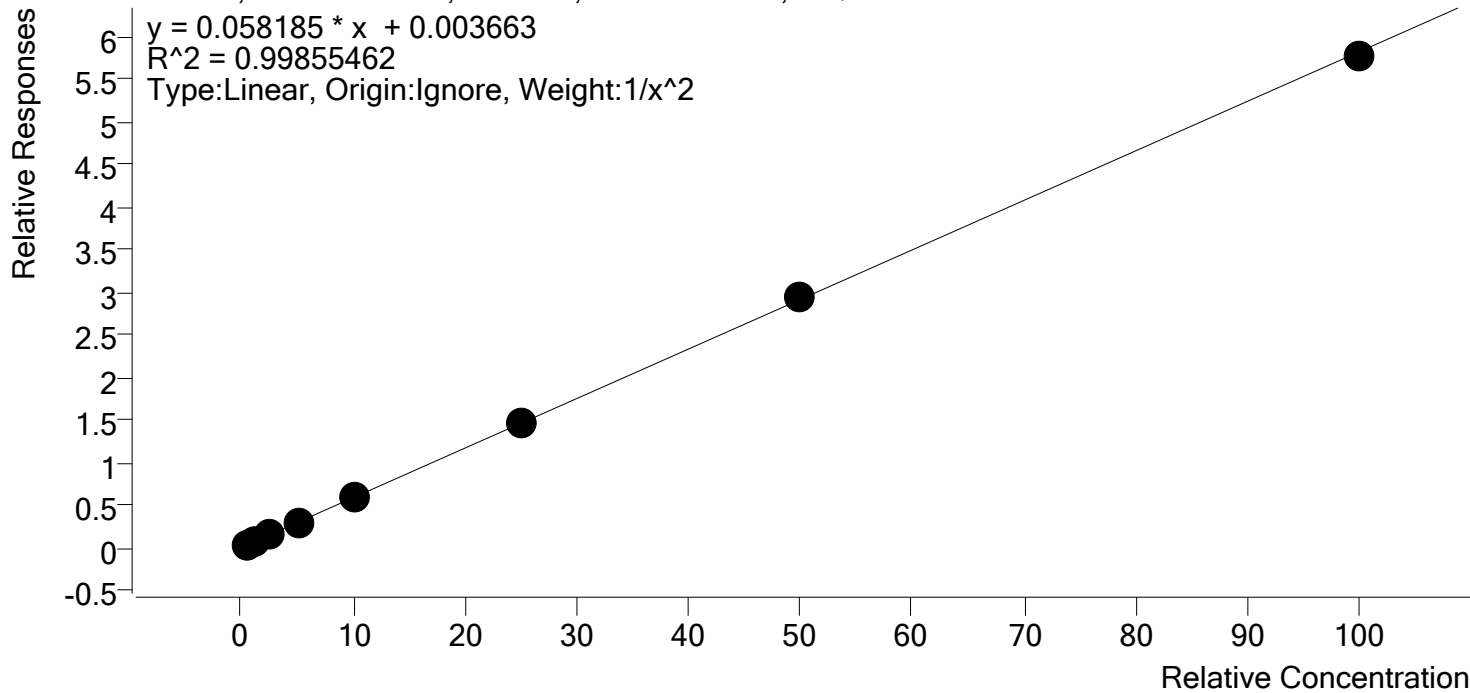
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 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



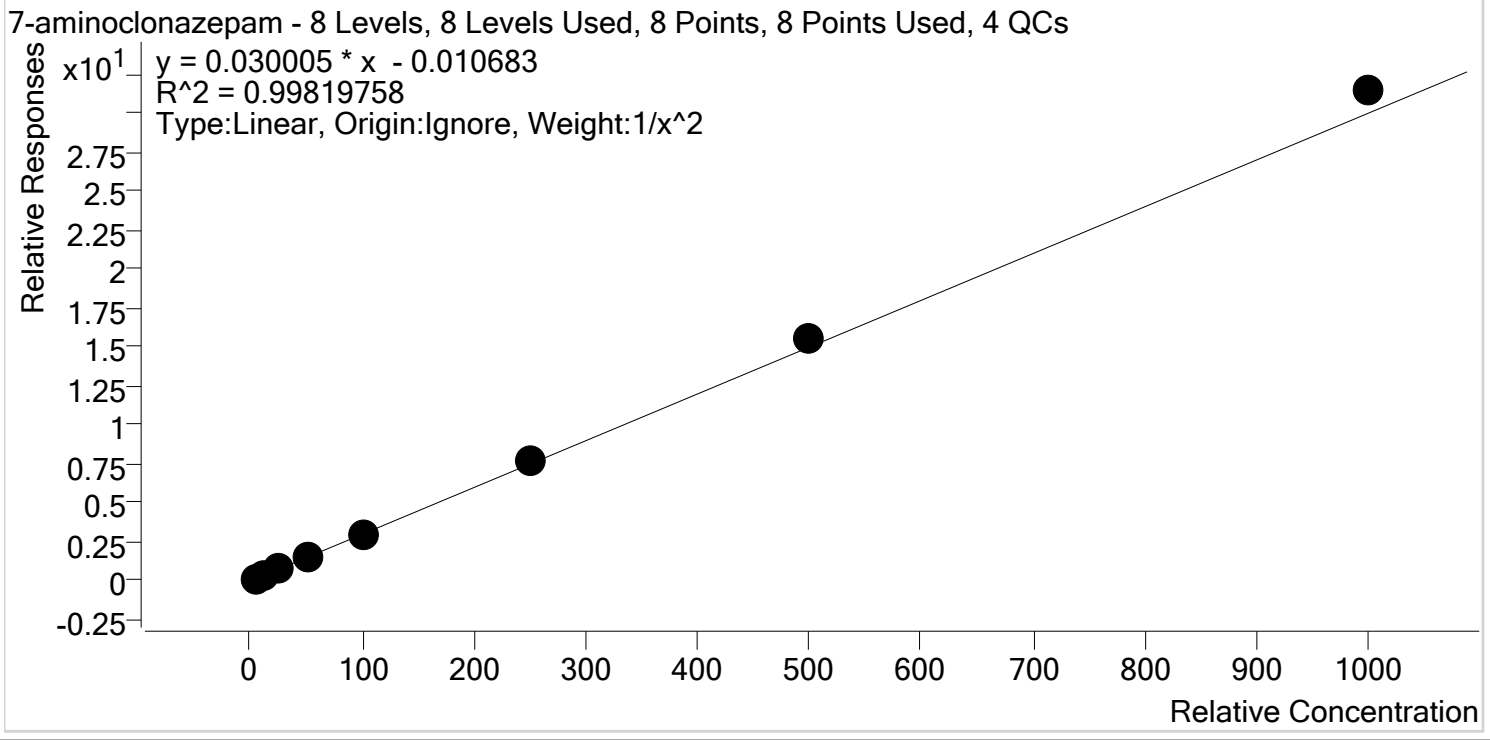
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	0.5	0.5	100.2
p1 Cal 2- 10ng SP	2	✓	1.0	1.0	97.5
p1 Cal 3 -25ng SP	3	✓	2.5	2.7	107.4
p1 Cal 4-50ng SP	4	✓	5.0	4.8	96.5
p1 Cal 5-100ng SP	5	✓	10.0	10.0	99.8
p1 Cal 6-250ng SP	6	✓	25.0	24.7	98.9
p1 Cal 7-500ng SP	7	✓	50.0	50.4	100.8
p1 Cal 8-1000ng SP	8	✓	100.0	99.0	99.0

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



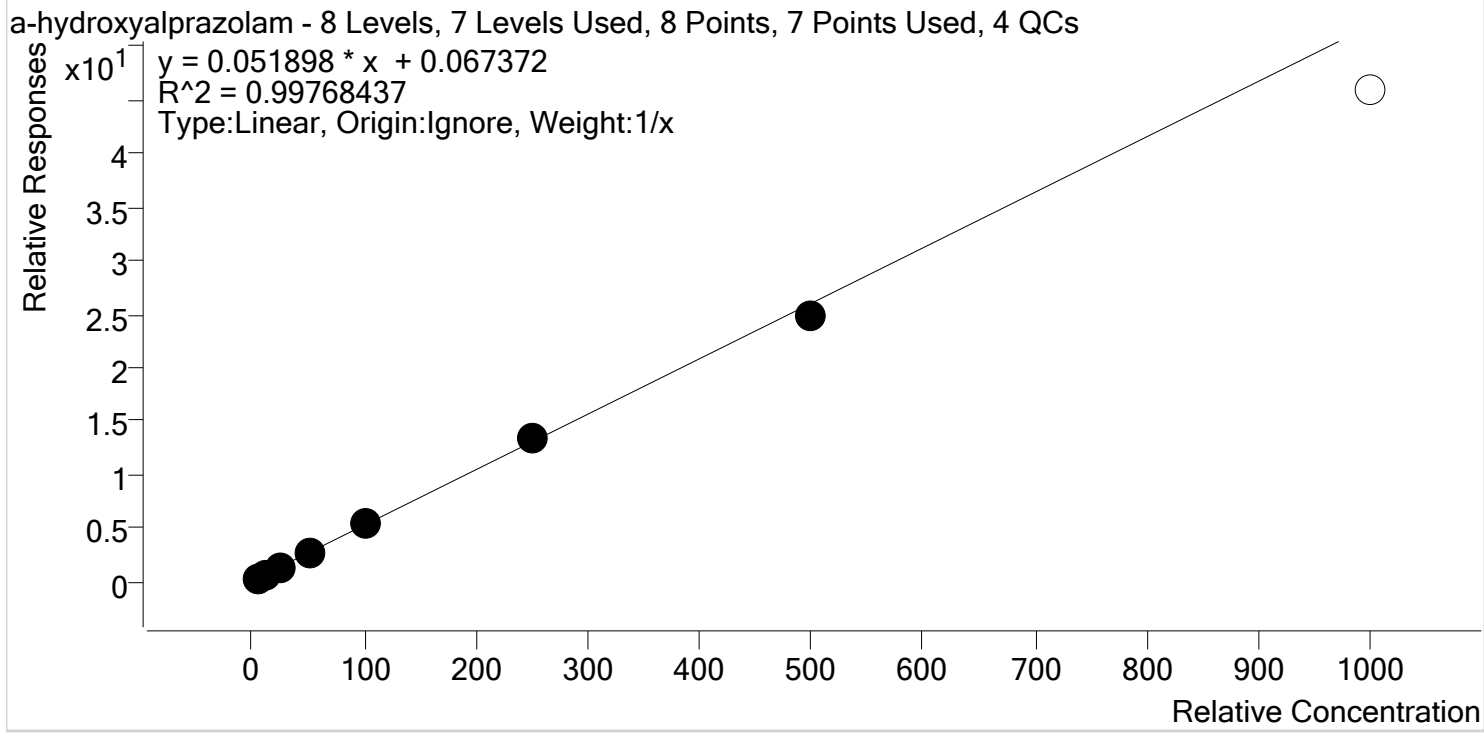
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng SP	3	✓	25.0	24.0	95.8
p1 Cal 4-50ng SP	4	✓	50.0	47.6	95.2
p1 Cal 5-100ng SP	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng SP	6	✓	250.0	253.4	101.4
p1 Cal 7-500ng SP	7	✓	500.0	521.4	104.3
p1 Cal 8-1000ng SP	8	✓	1000.0	1048.5	104.8

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

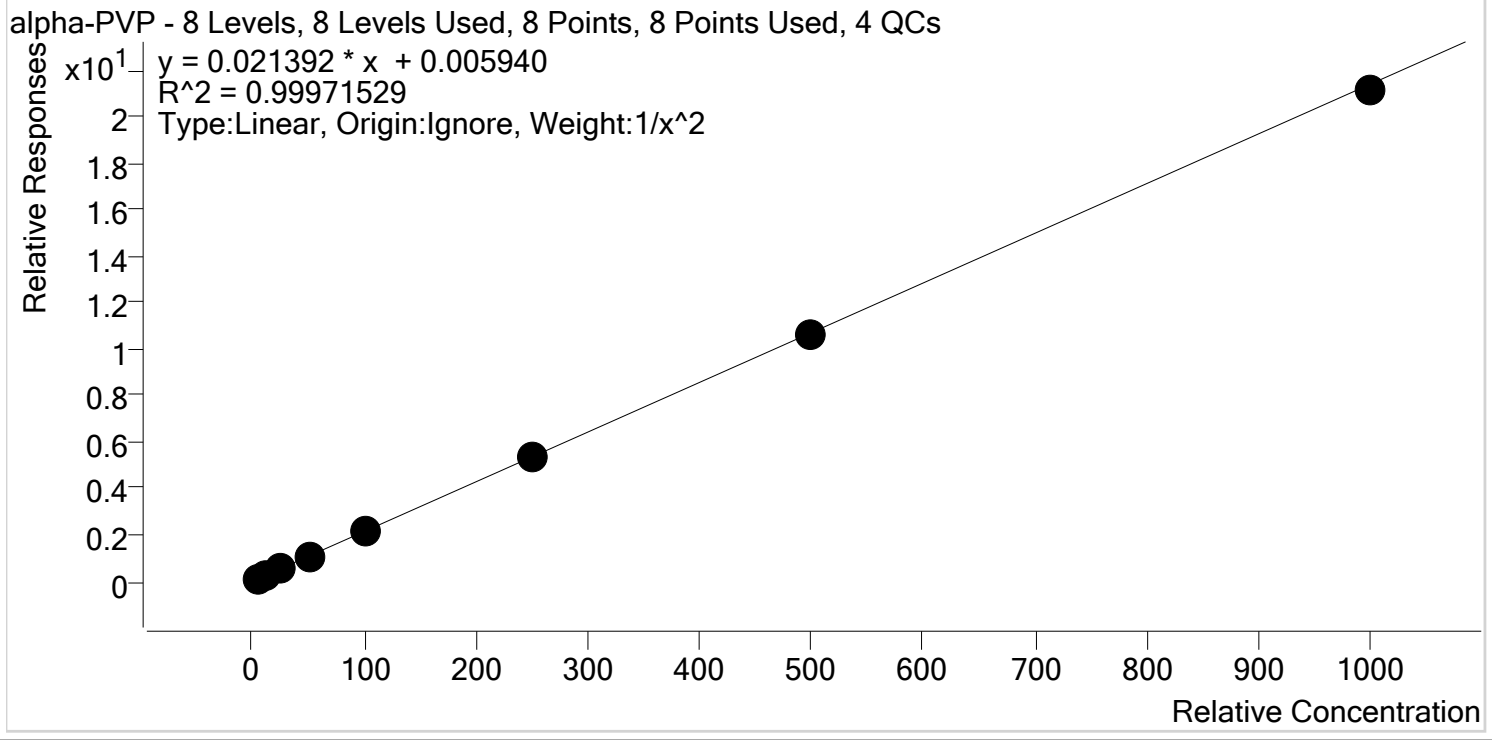


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.1	81.9
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng SP	3	✓	25.0	26.3	105.2
p1 Cal 4-50ng SP	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng SP	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng SP	6	✓	250.0	259.9	104.0
p1 Cal 7-500ng SP	7	✓	500.0	480.8	96.2
p1 Cal 8-1000ng SP	8	x	1000.0	884.0	88.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8



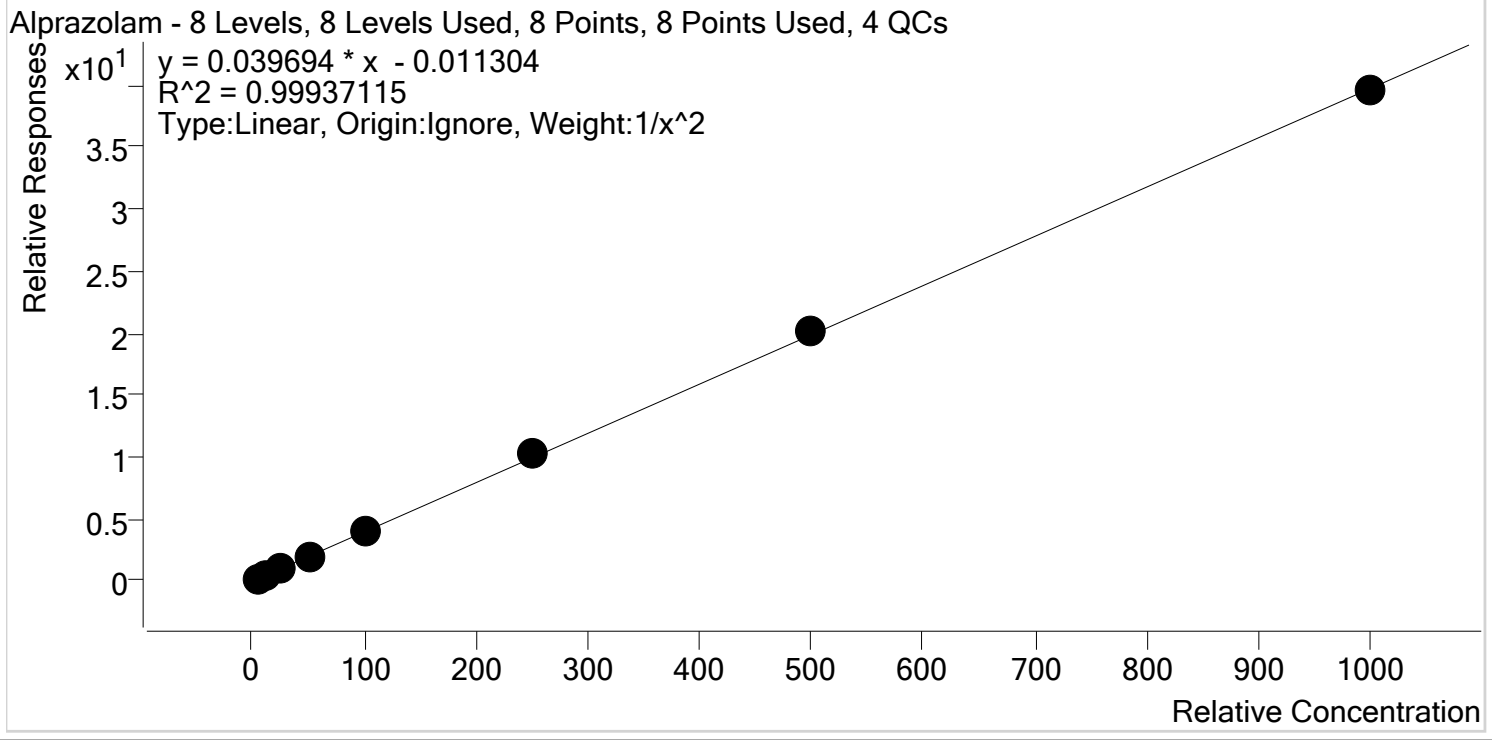
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng SP	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng SP	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng SP	6	✓	250.0	246.6	98.6
p1 Cal 7-500ng SP	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng SP	8	✓	1000.0	987.2	98.7

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	101.0
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng SP	3	✓	25.0	24.0	95.9
p1 Cal 4-50ng SP	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng SP	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng SP	6	✓	250.0	257.6	103.0
p1 Cal 7-500ng SP	7	✓	500.0	509.7	101.9
p1 Cal 8-1000ng SP	8	✓	1000.0	995.9	99.6

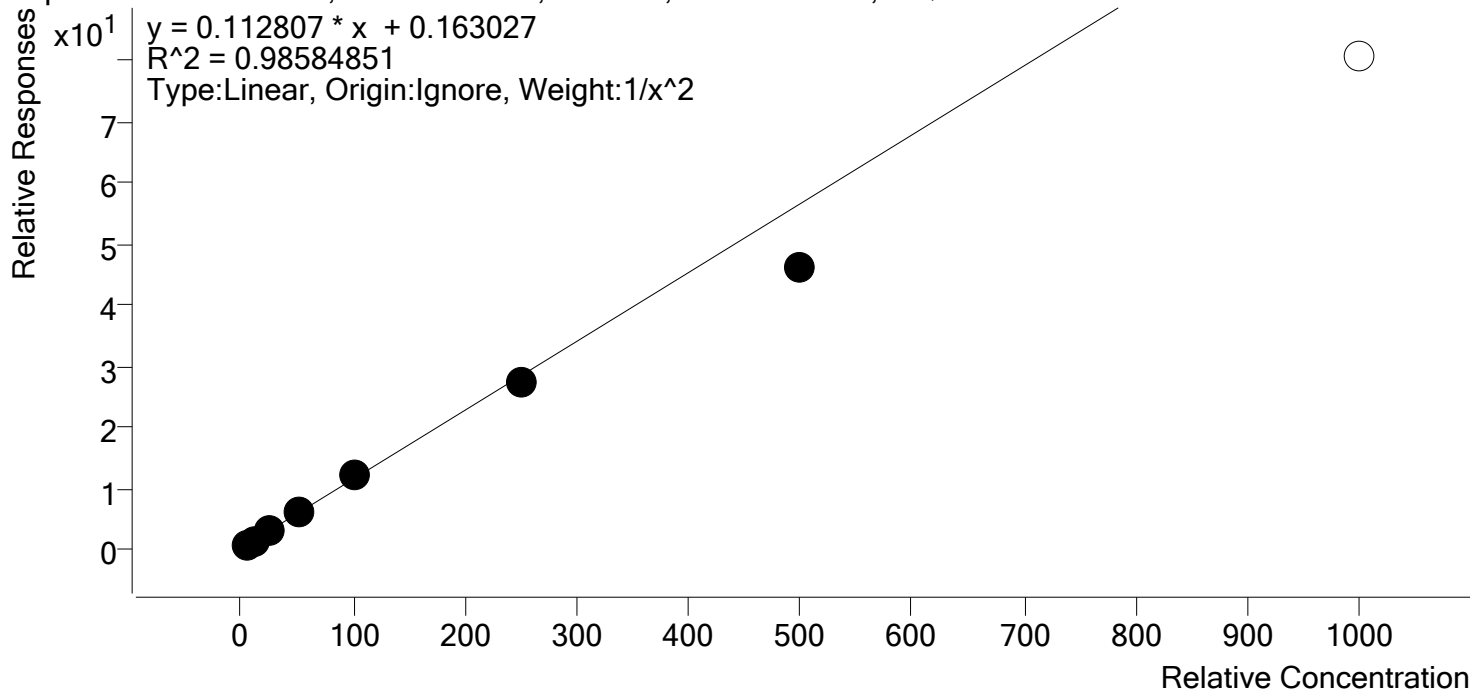
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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

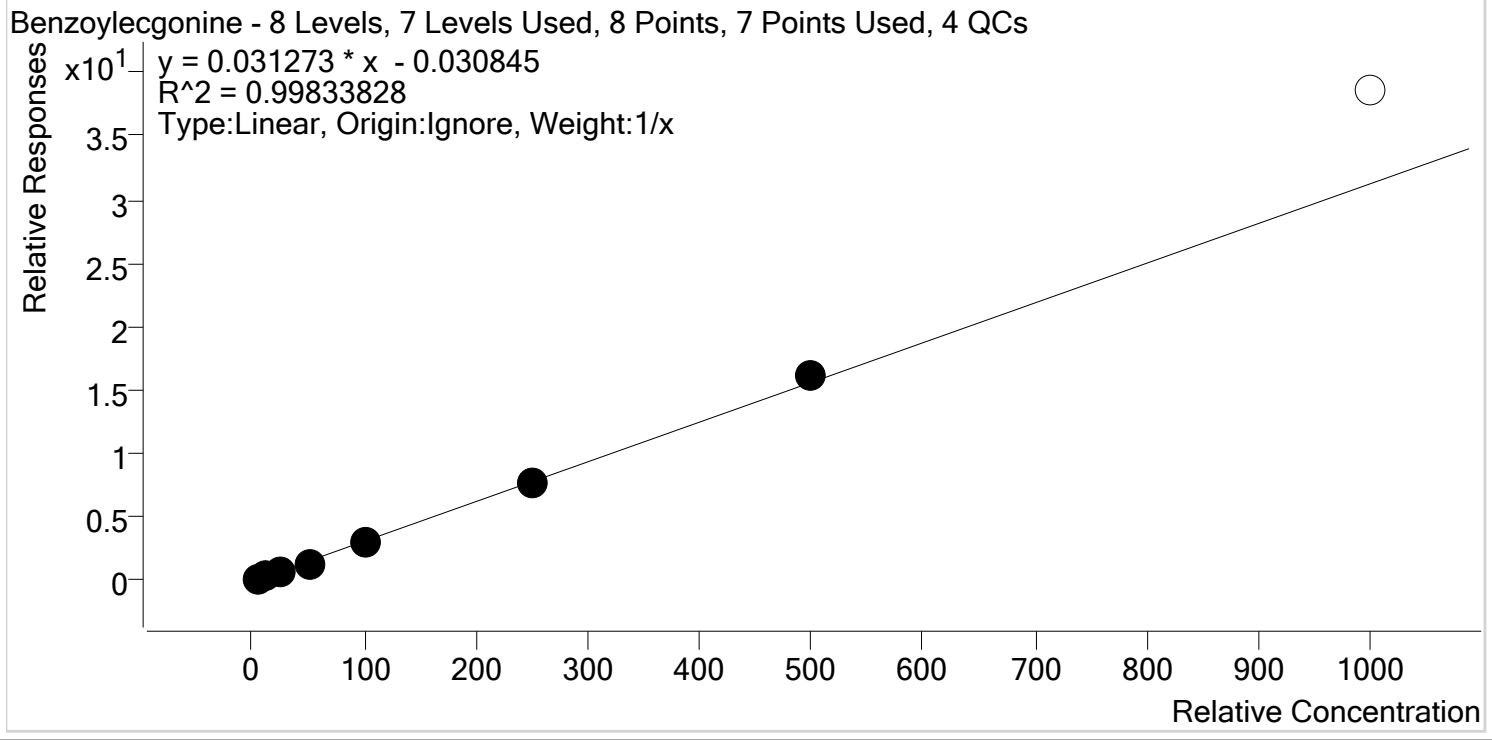


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.7	94.3
p1 Cal 2- 10ng SP	2	✓	10.0	10.6	106.2
p1 Cal 3 -25ng SP	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng SP	4	✓	50.0	54.9	109.9
p1 Cal 5-100ng SP	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng SP	6	✓	250.0	238.8	95.5
p1 Cal 7-500ng SP	7	✓	500.0	408.3	81.7
p1 Cal 8-1000ng SP	8	✗	1000.0	713.6	71.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.8	115.9
p1 Cal 2- 10ng SP	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng SP	3	✓	25.0	23.1	92.4
p1 Cal 4-50ng SP	4	✓	50.0	45.7	91.3
p1 Cal 5-100ng SP	5	✓	100.0	94.5	94.5
p1 Cal 6-250ng SP	6	✓	250.0	247.4	98.9
p1 Cal 7-500ng SP	7	✓	500.0	513.2	102.6
p1 Cal 8-1000ng SP	8	✗	1000.0	1234.7	123.5

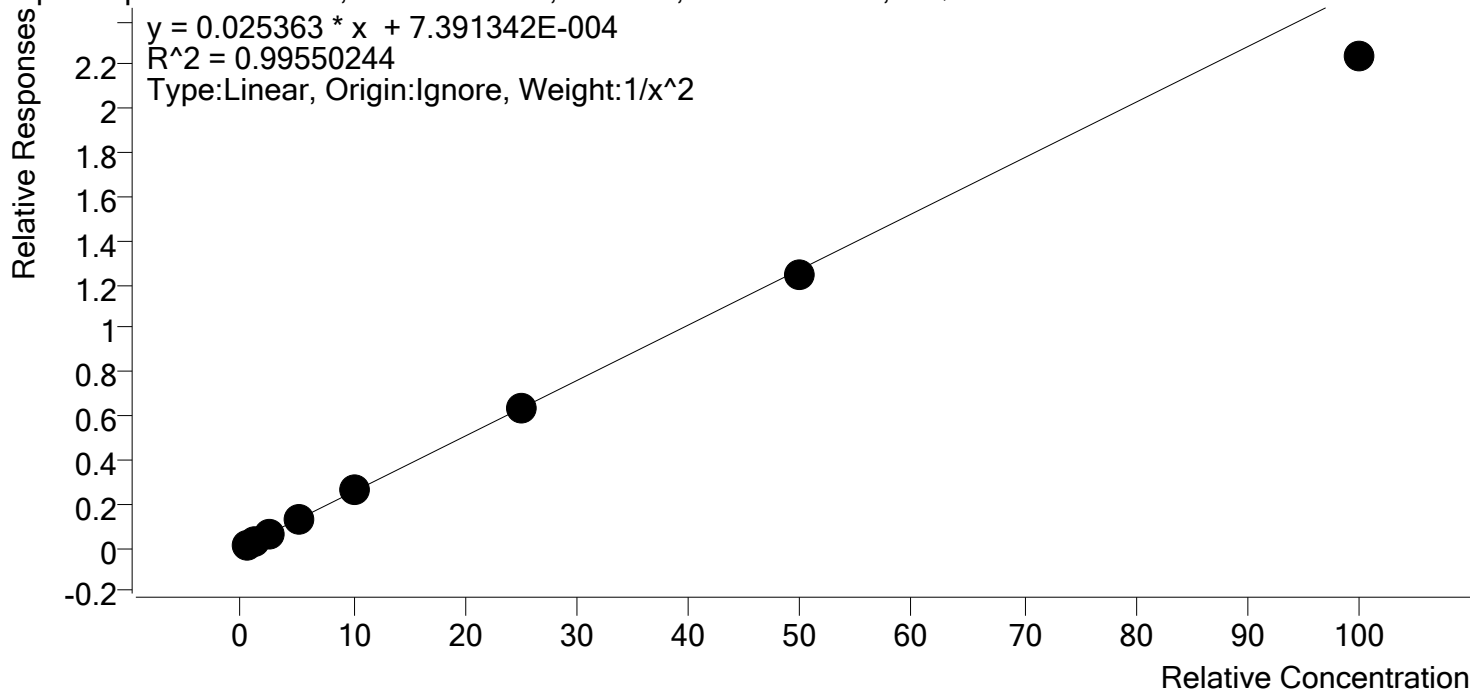
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	0.5	0.5	99.3
p1 Cal 2- 10ng SP	2	✓	1.0	1.0	98.4
p1 Cal 3 -25ng SP	3	✓	2.5	2.6	103.2
p1 Cal 4-50ng SP	4	✓	5.0	5.3	106.2
p1 Cal 5-100ng SP	5	✓	10.0	10.6	106.4
p1 Cal 6-250ng SP	6	✓	25.0	25.2	100.8
p1 Cal 7-500ng SP	7	✓	50.0	48.7	97.5
p1 Cal 8-1000ng SP	8	✓	100.0	88.2	88.2



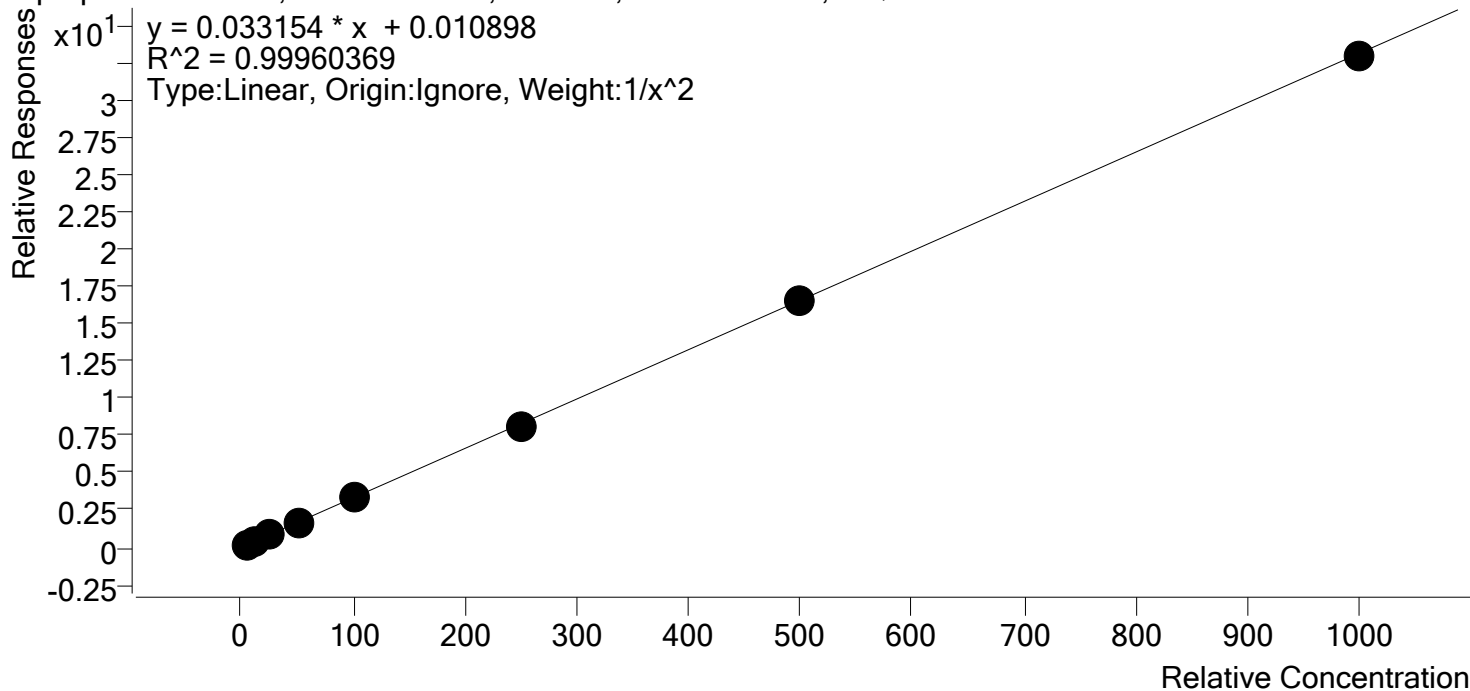
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng SP	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng SP	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng SP	6	✓	250.0	243.1	97.3
p1 Cal 7-500ng SP	7	✓	500.0	499.8	100.0
p1 Cal 8-1000ng SP	8	✓	1000.0	993.6	99.4

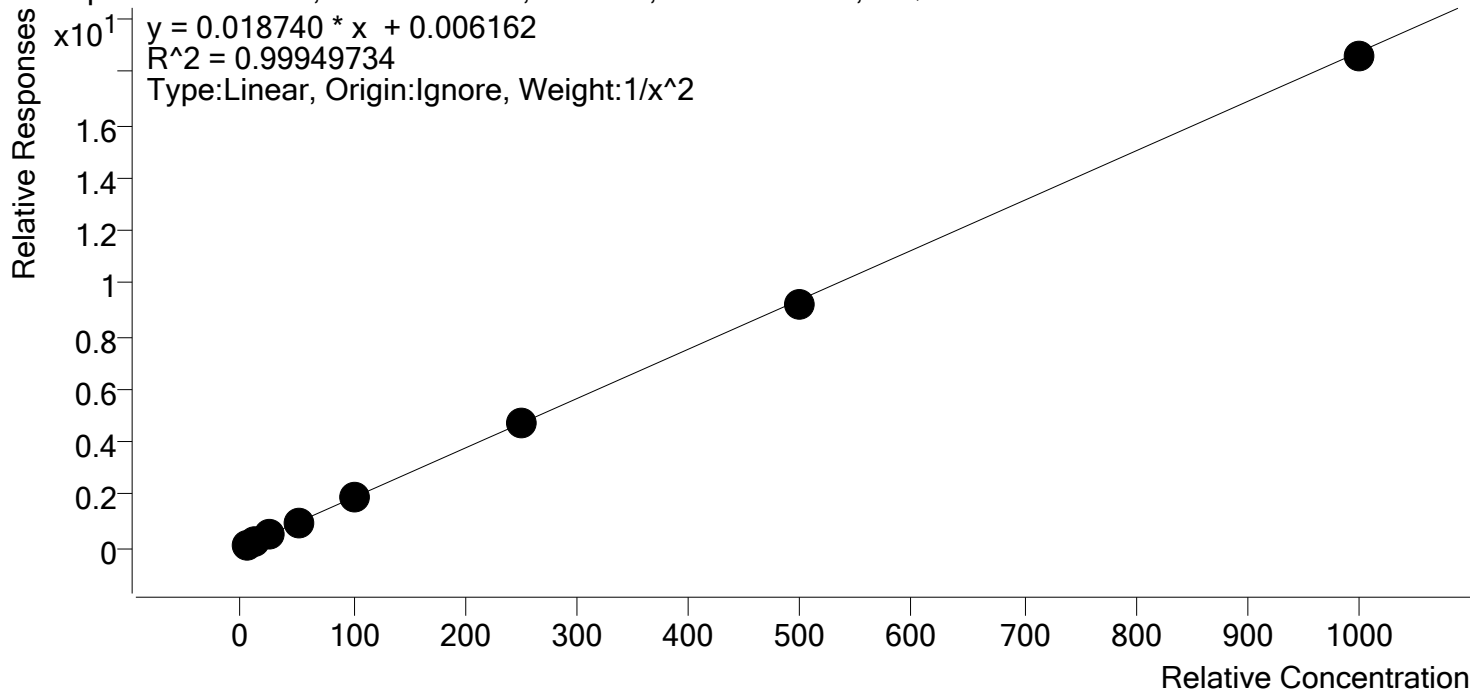
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



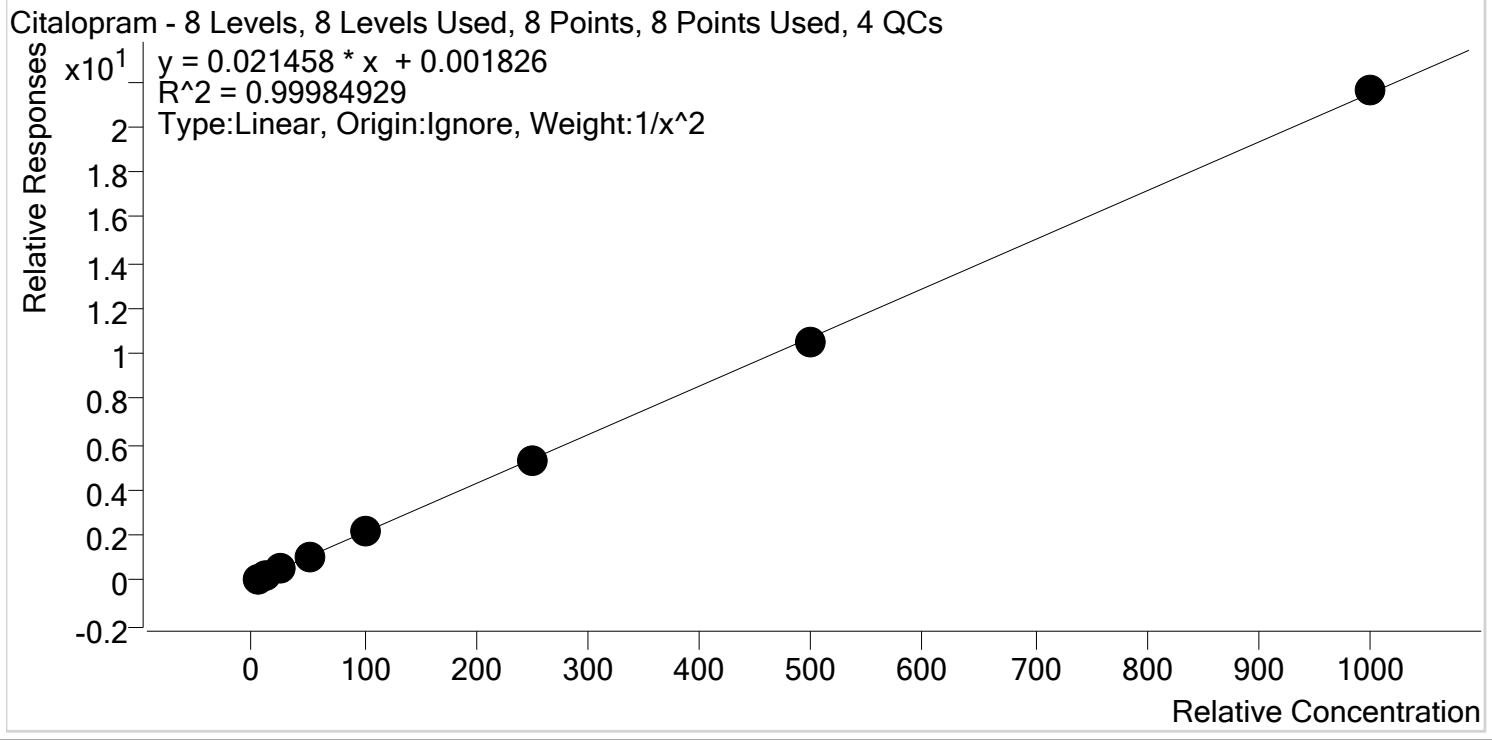
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng SP	4	✓	50.0	51.9	103.9
p1 Cal 5-100ng SP	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng SP	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng SP	7	✓	500.0	486.8	97.4
p1 Cal 8-1000ng SP	8	✓	1000.0	990.7	99.1

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6



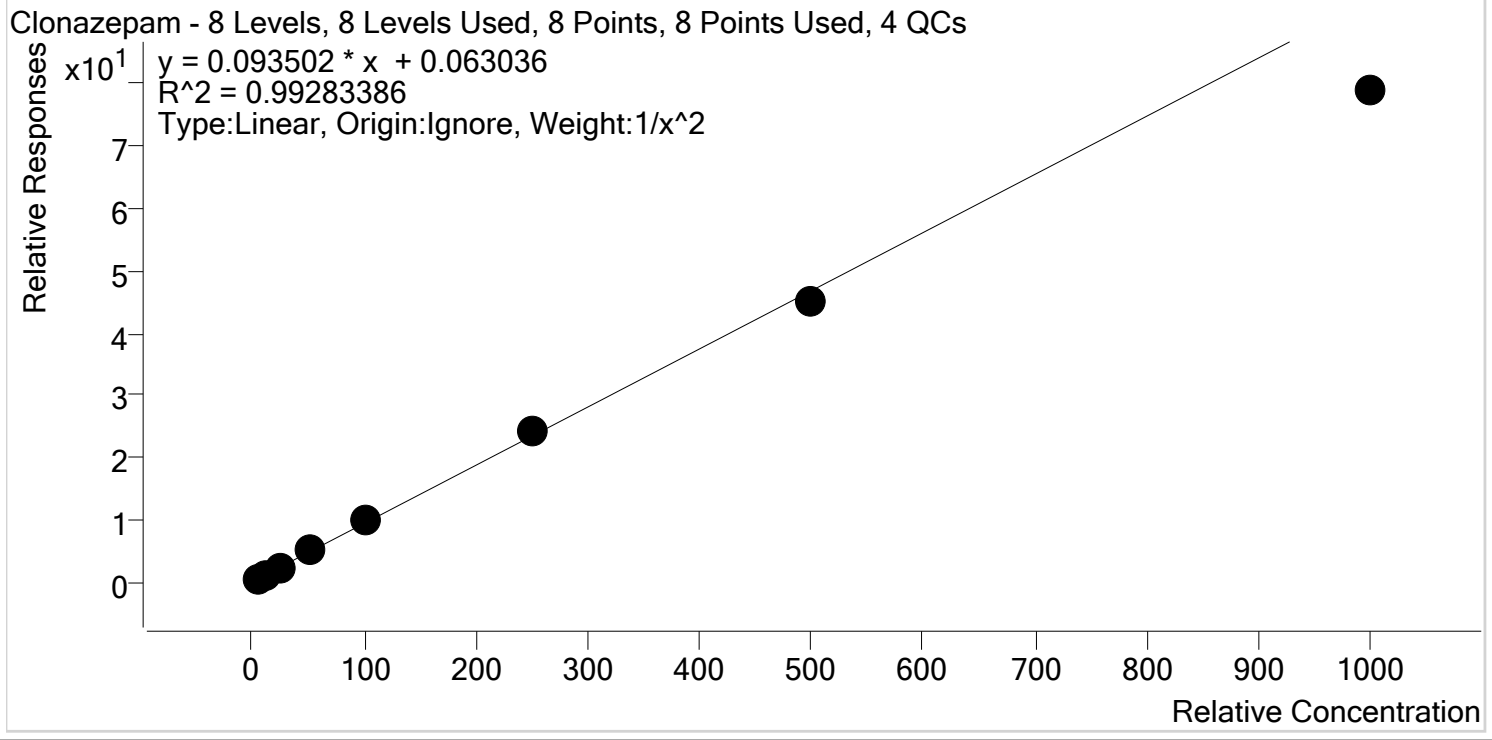
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng SP	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng SP	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng SP	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng SP	6	✓	250.0	248.6	99.4
p1 Cal 7-500ng SP	7	✓	500.0	490.2	98.0
p1 Cal 8-1000ng SP	8	✓	1000.0	1005.8	100.6

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4



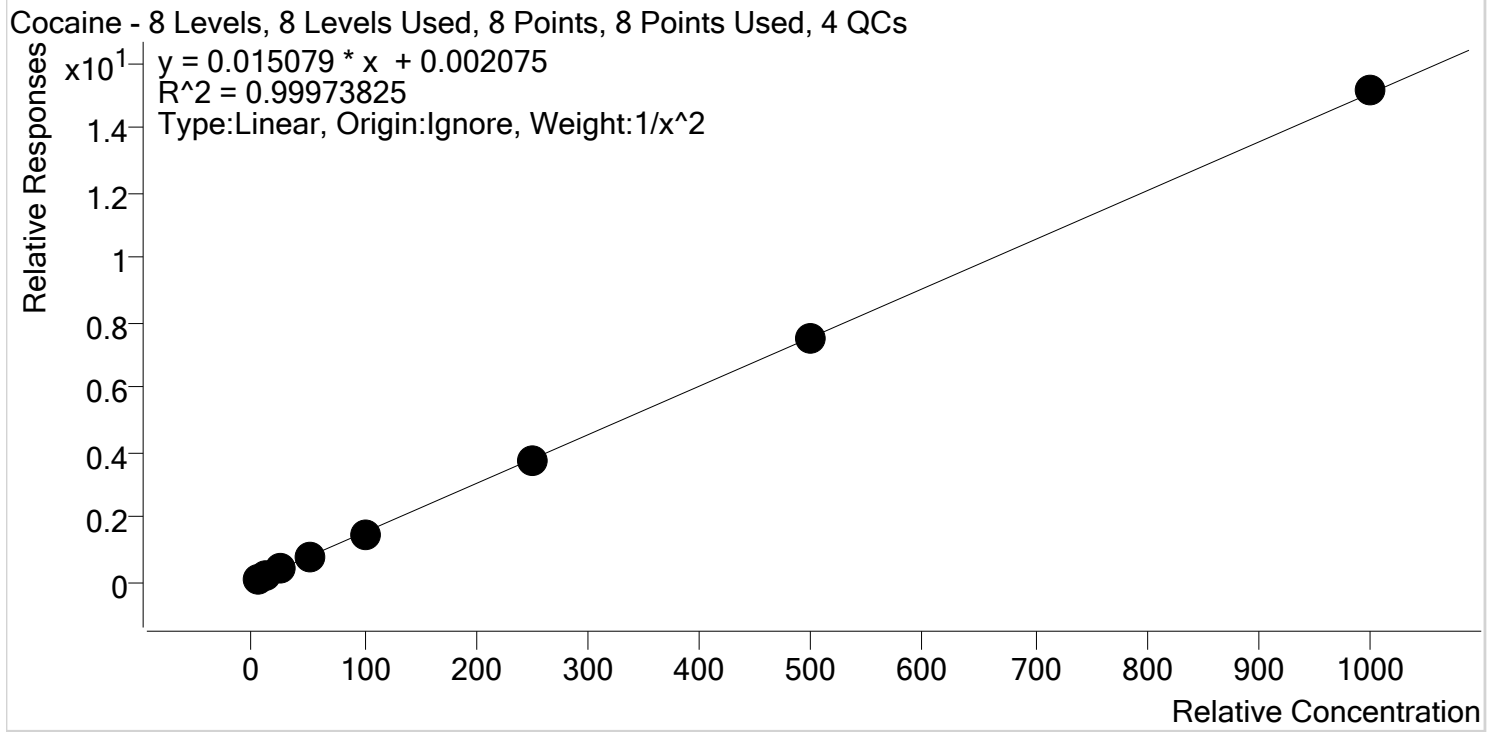
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng SP	3	✓	25.0	26.0	104.1
p1 Cal 4-50ng SP	4	✓	50.0	54.3	108.6
p1 Cal 5-100ng SP	5	✓	100.0	104.9	104.9
p1 Cal 6-250ng SP	6	✓	250.0	256.1	102.4
p1 Cal 7-500ng SP	7	✓	500.0	484.5	96.9
p1 Cal 8-1000ng SP	8	✓	1000.0	844.1	84.4

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

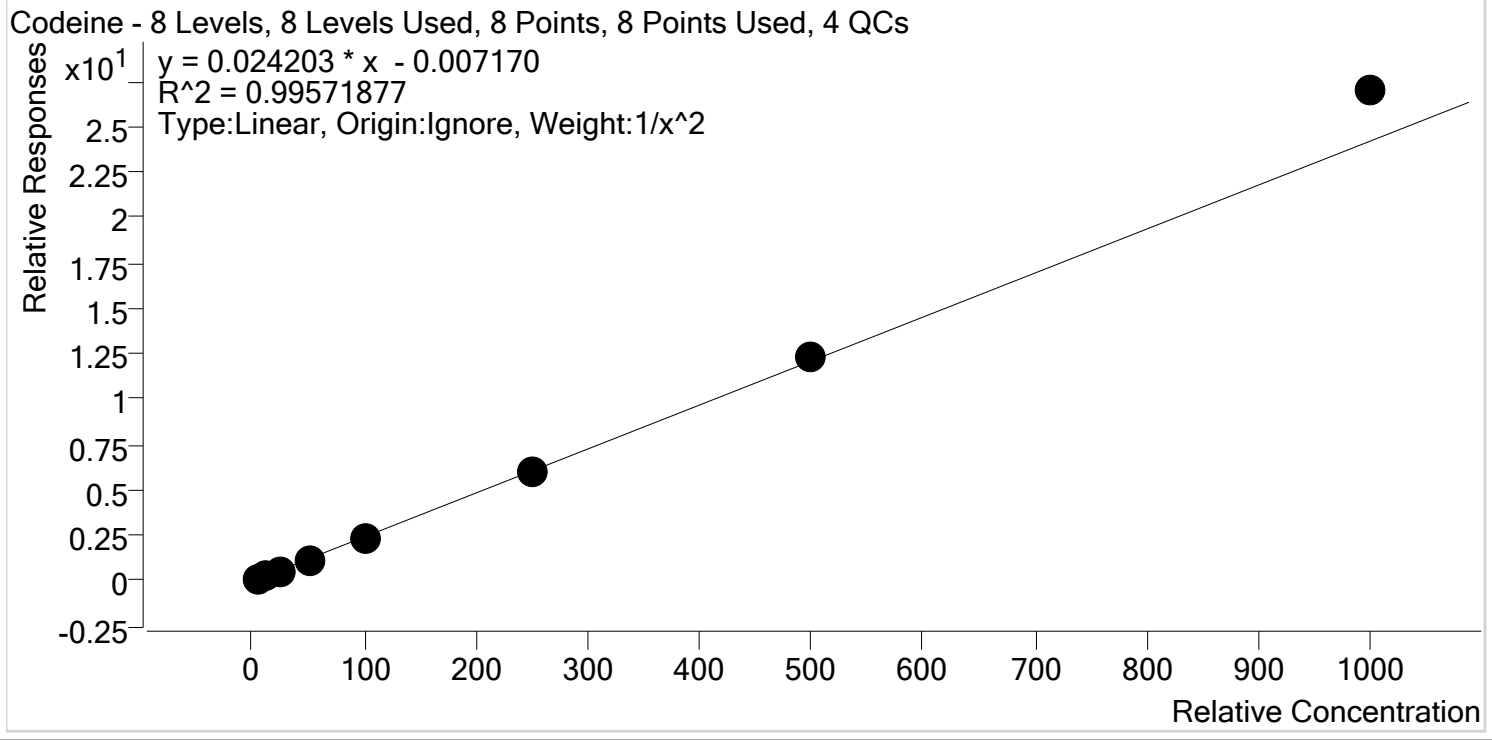


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	101.0
p1 Cal 2- 10ng SP	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng SP	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng SP	4	✓	50.0	51.1	102.3
p1 Cal 5-100ng SP	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng SP	6	✓	250.0	250.1	100.1
p1 Cal 7-500ng SP	7	✓	500.0	499.5	99.9
p1 Cal 8-1000ng SP	8	✓	1000.0	1005.7	100.6



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	102.7
p1 Cal 2- 10ng SP	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng SP	3	✓	25.0	23.4	93.6
p1 Cal 4-50ng SP	4	✓	50.0	47.2	94.4
p1 Cal 5-100ng SP	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng SP	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng SP	7	✓	500.0	511.8	102.4
p1 Cal 8-1000ng SP	8	✓	1000.0	1114.9	111.5

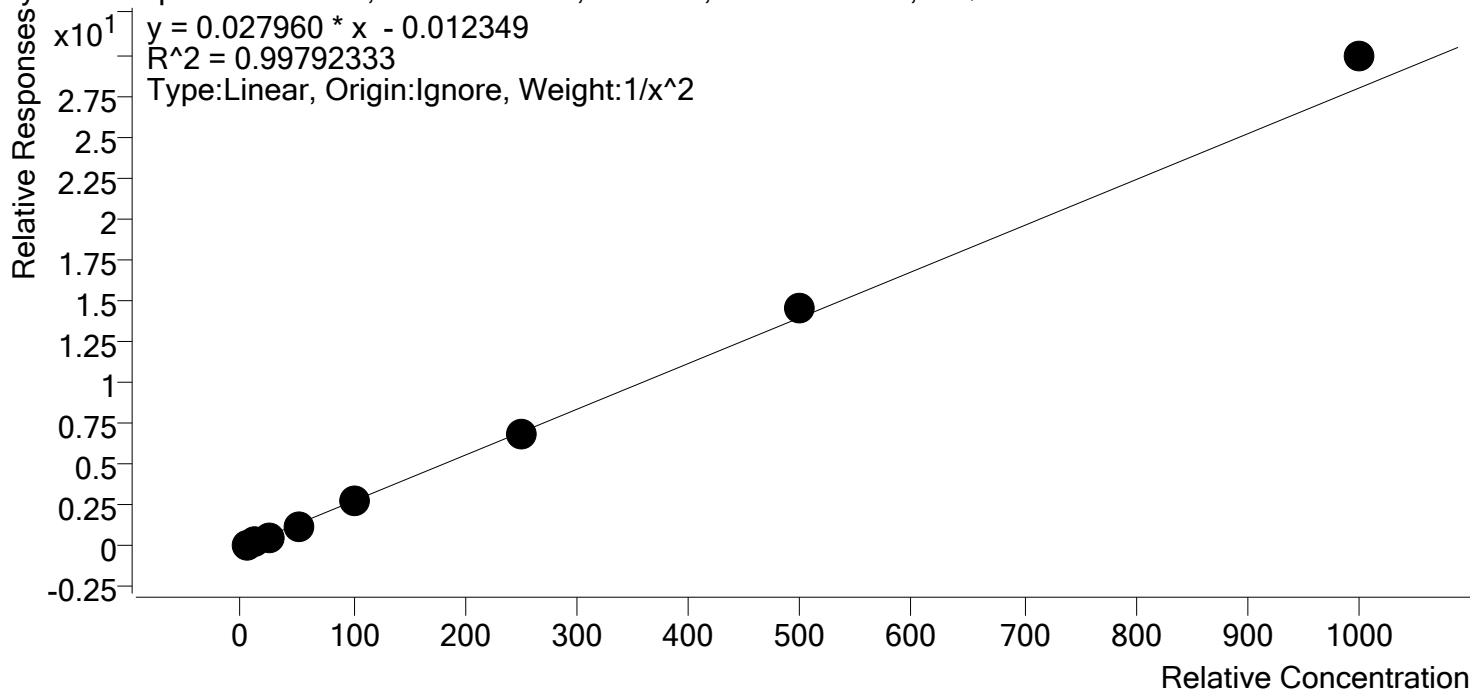
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

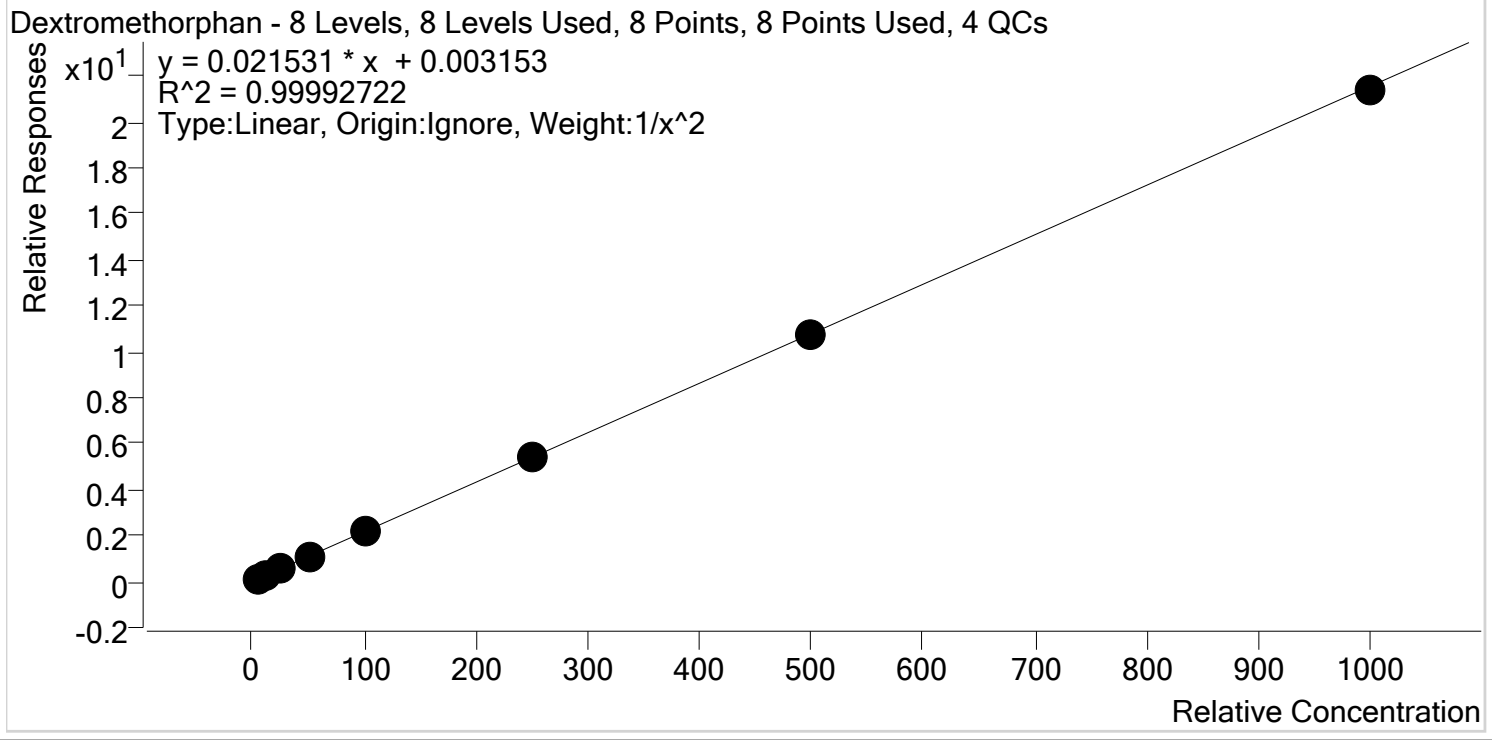


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	102.6
p1 Cal 2- 10ng SP	2	✓	10.0	9.8	97.5
p1 Cal 3 -25ng SP	3	✓	25.0	23.8	95.3
p1 Cal 4-50ng SP	4	✓	50.0	48.2	96.4
p1 Cal 5-100ng SP	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng SP	6	✓	250.0	247.5	99.0
p1 Cal 7-500ng SP	7	✓	500.0	517.6	103.5
p1 Cal 8-1000ng SP	8	✓	1000.0	1068.3	106.8



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng SP	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng SP	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng SP	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng SP	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng SP	7	✓	500.0	499.1	99.8
p1 Cal 8-1000ng SP	8	✓	1000.0	991.3	99.1

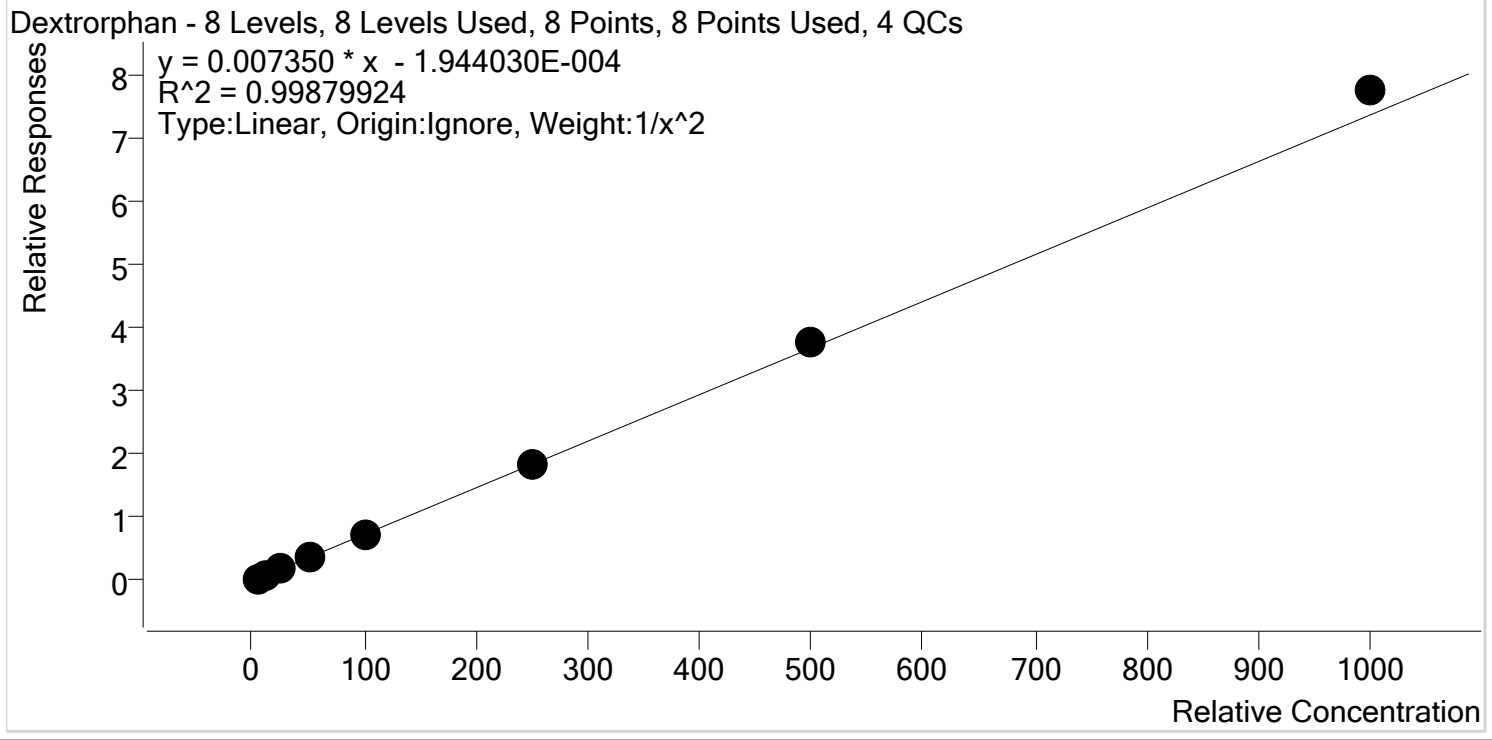


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	101.7
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng SP	3	✓	25.0	23.8	95.1
p1 Cal 4-50ng SP	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng SP	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng SP	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng SP	7	✓	500.0	509.0	101.8
p1 Cal 8-1000ng SP	8	✓	1000.0	1052.3	105.2

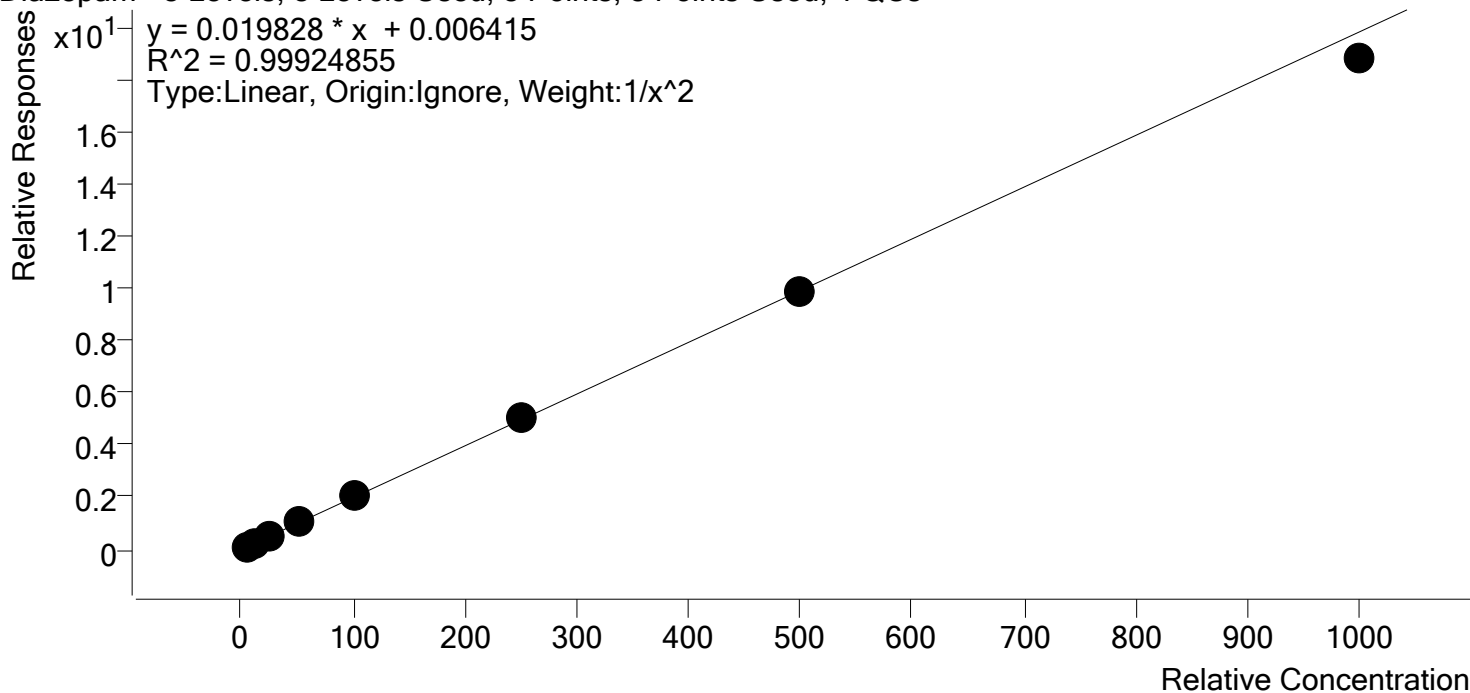
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5

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

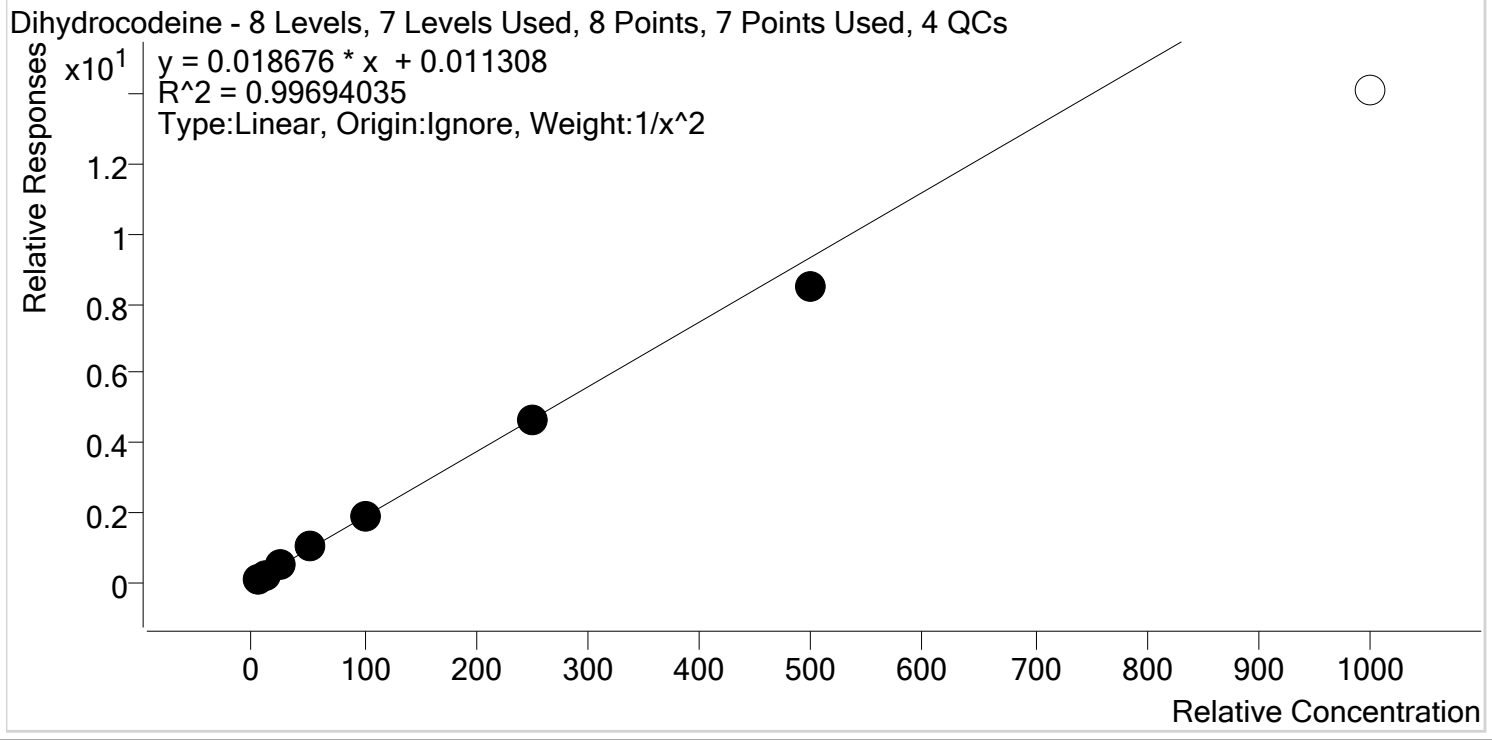


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng SP	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng SP	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng SP	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng SP	6	✓	250.0	253.6	101.4
p1 Cal 7-500ng SP	7	✓	500.0	495.9	99.2
p1 Cal 8-1000ng SP	8	✓	1000.0	948.6	94.9



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



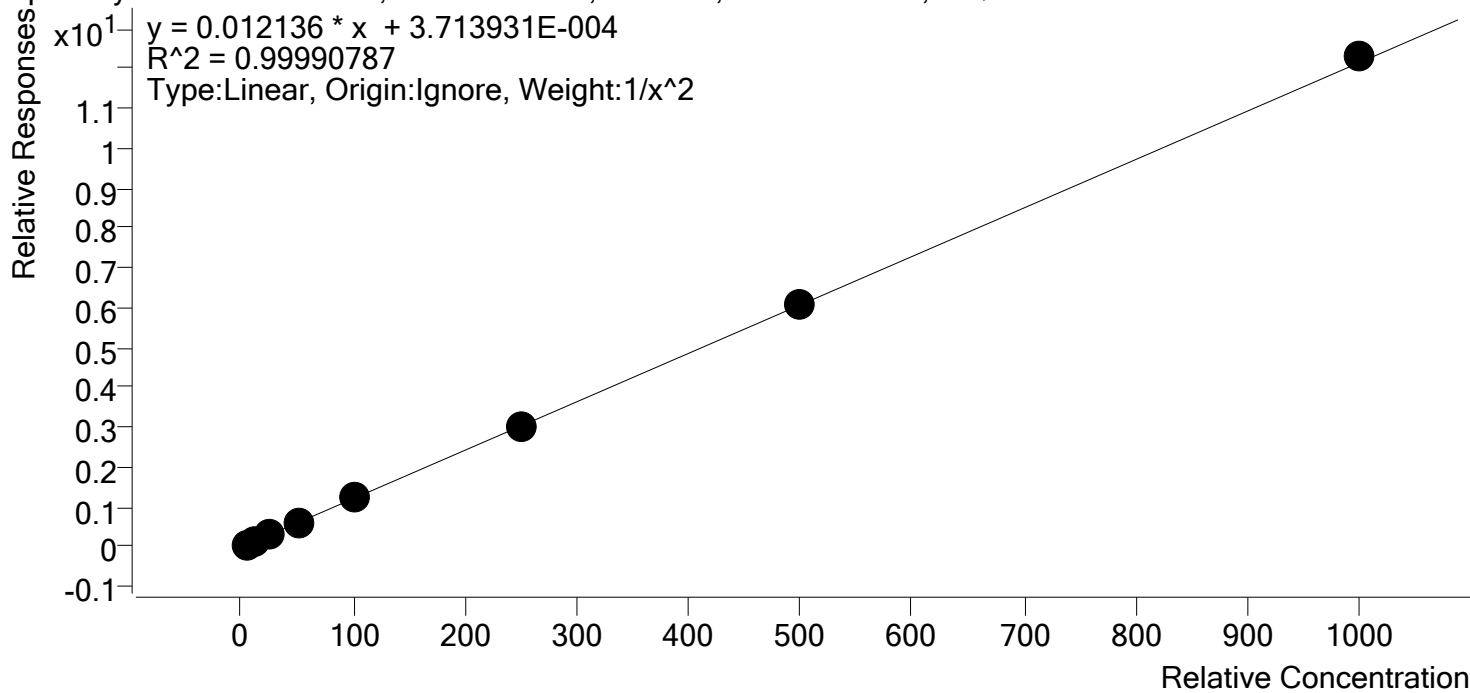
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng SP	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng SP	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng SP	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng SP	6	✓	250.0	247.1	98.8
p1 Cal 7-500ng SP	7	✓	500.0	456.3	91.3
p1 Cal 8-1000ng SP	8	✗	1000.0	756.1	75.6



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



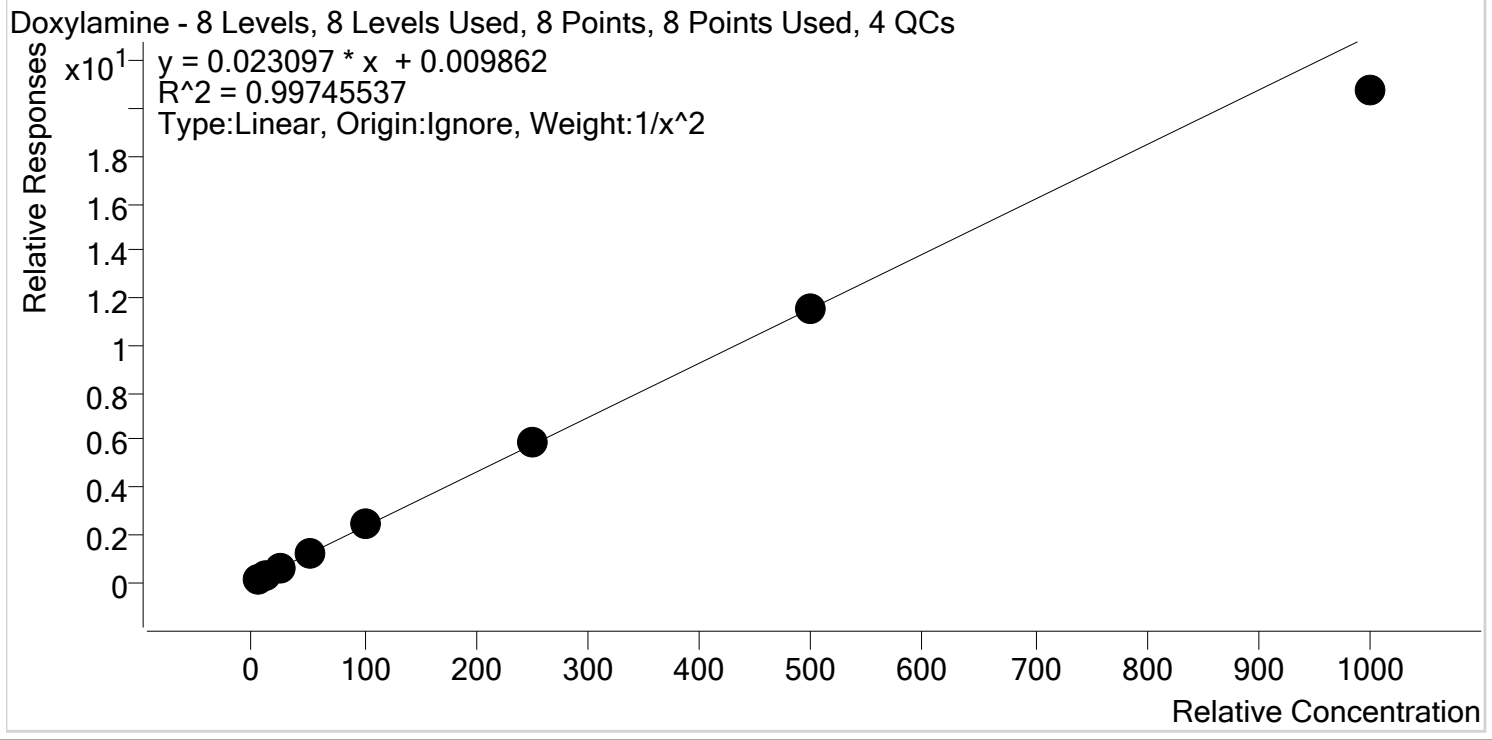
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng SP	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng SP	4	✓	50.0	50.2	100.3
p1 Cal 5-100ng SP	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng SP	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng SP	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng SP	8	✓	1000.0	1012.6	101.3

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.2	101.0
p1 Cal 4-50ng SP	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng SP	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng SP	6	✓	250.0	254.4	101.8
p1 Cal 7-500ng SP	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng SP	8	✓	1000.0	899.3	89.9

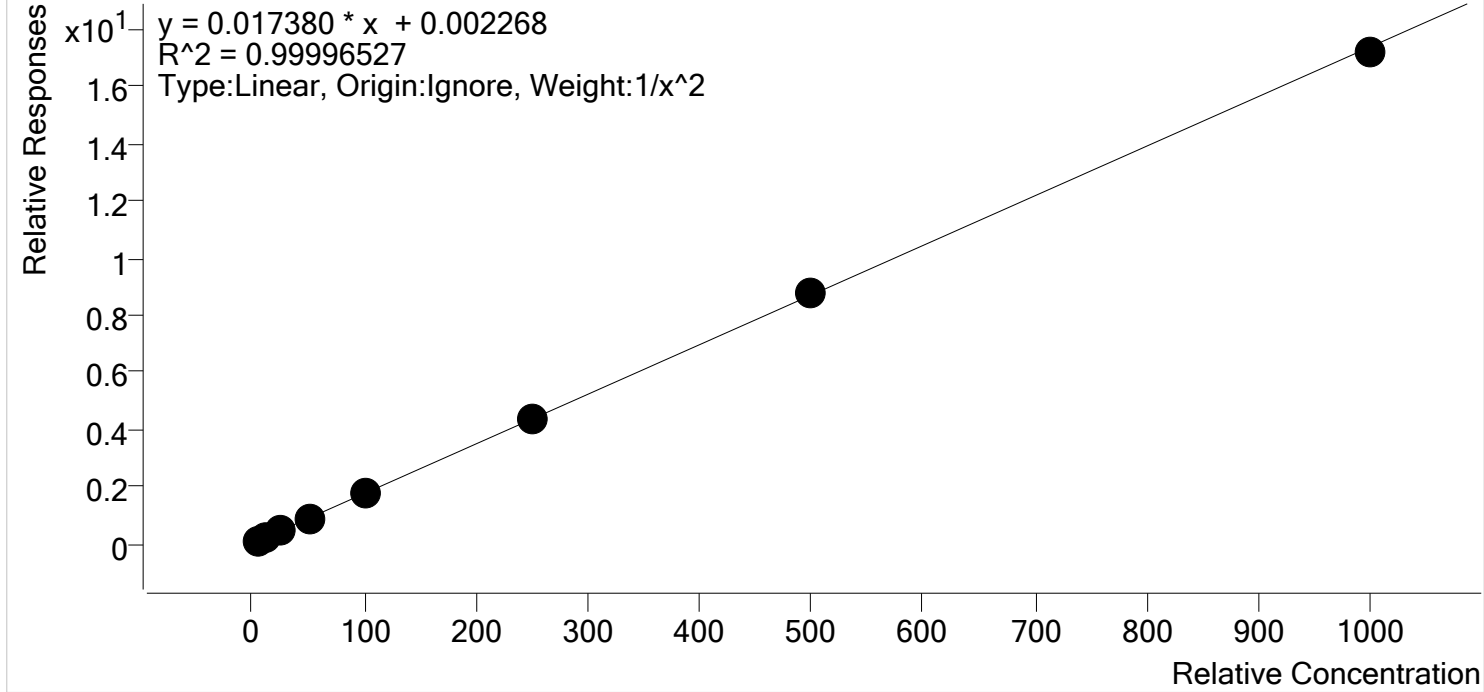
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

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



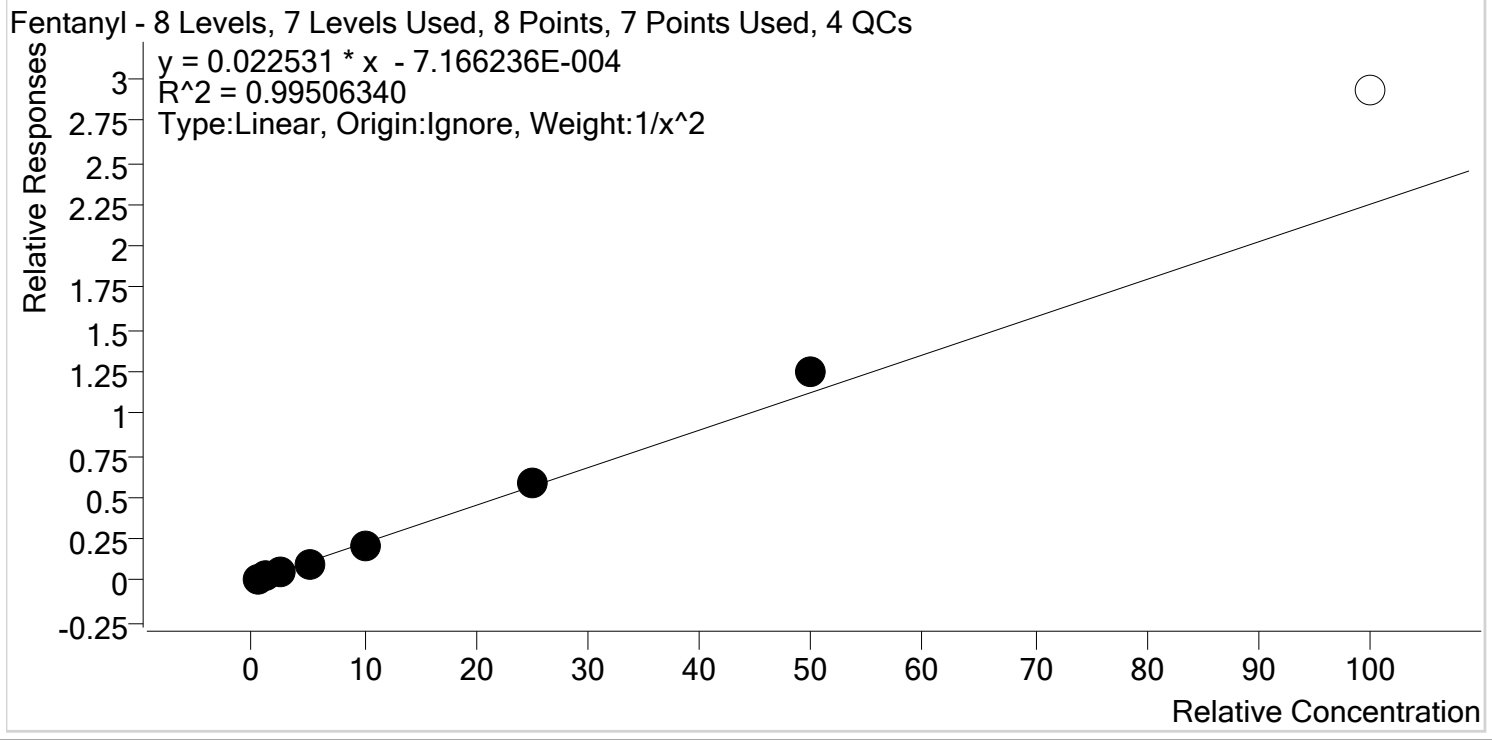
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng SP	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng SP	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng SP	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng SP	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng SP	7	✓	500.0	500.9	100.2
p1 Cal 8-1000ng SP	8	✓	1000.0	988.6	98.9

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5



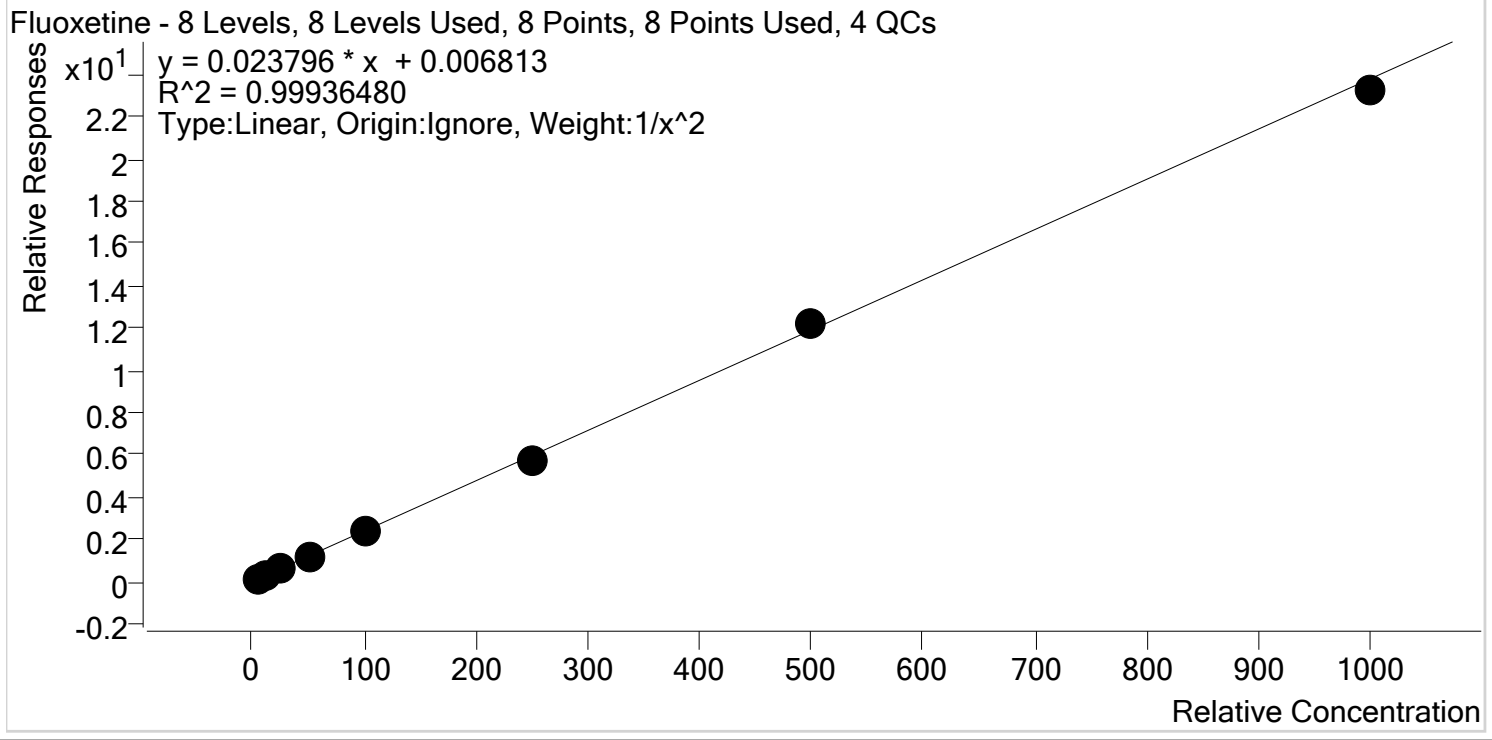
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	0.5	0.5	103.3
p1 Cal 2- 10ng SP	2	✓	1.0	1.0	96.6
p1 Cal 3 -25ng SP	3	✓	2.5	2.4	94.5
p1 Cal 4-50ng SP	4	✓	5.0	4.8	95.3
p1 Cal 5-100ng SP	5	✓	10.0	9.7	96.9
p1 Cal 6-250ng SP	6	✓	25.0	25.6	102.2
p1 Cal 7-500ng SP	7	✓	50.0	55.6	111.2
p1 Cal 8-1000ng SP	8	✗	100.0	130.2	130.2

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng SP	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng SP	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng SP	6	✓	250.0	243.5	97.4
p1 Cal 7-500ng SP	7	✓	500.0	509.3	101.9
p1 Cal 8-1000ng SP	8	✓	1000.0	976.7	97.7

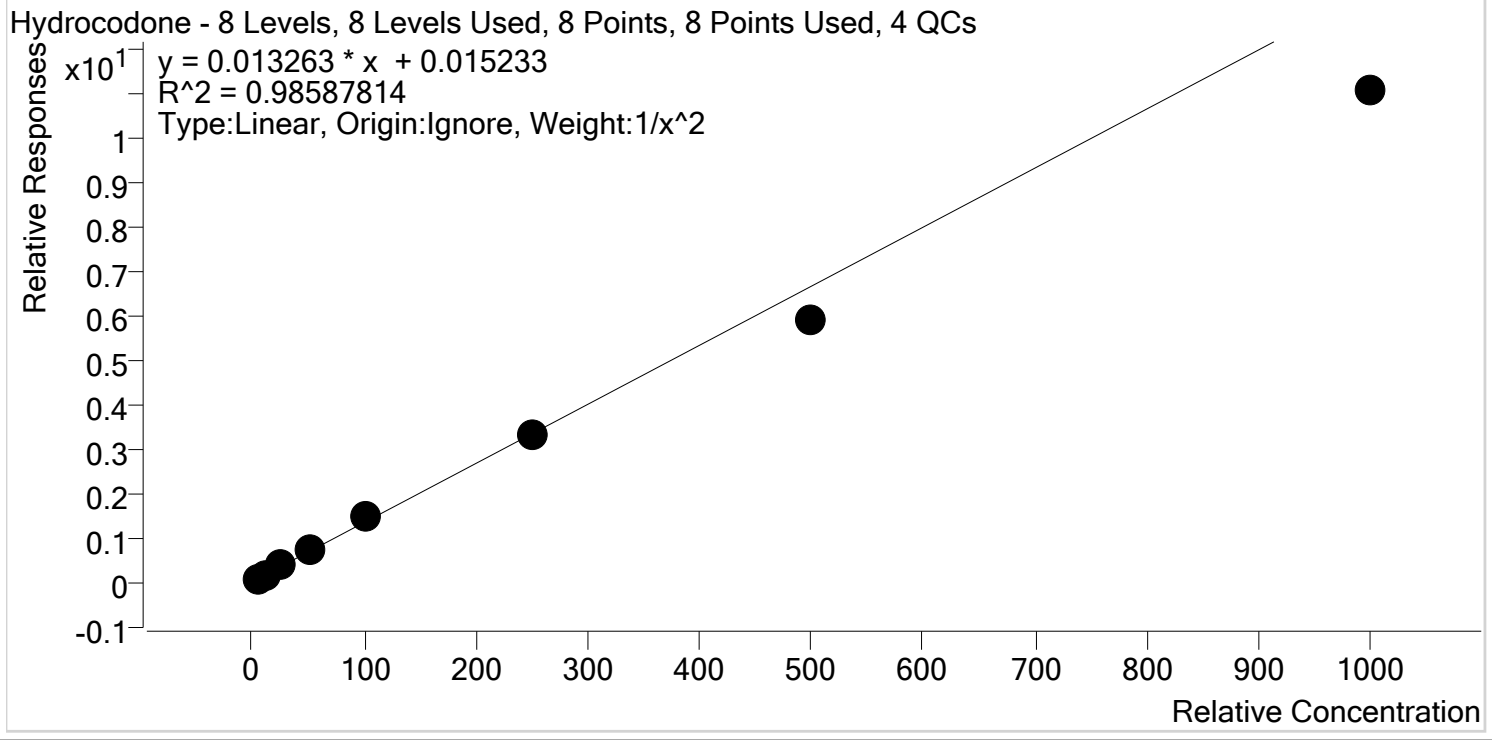


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6



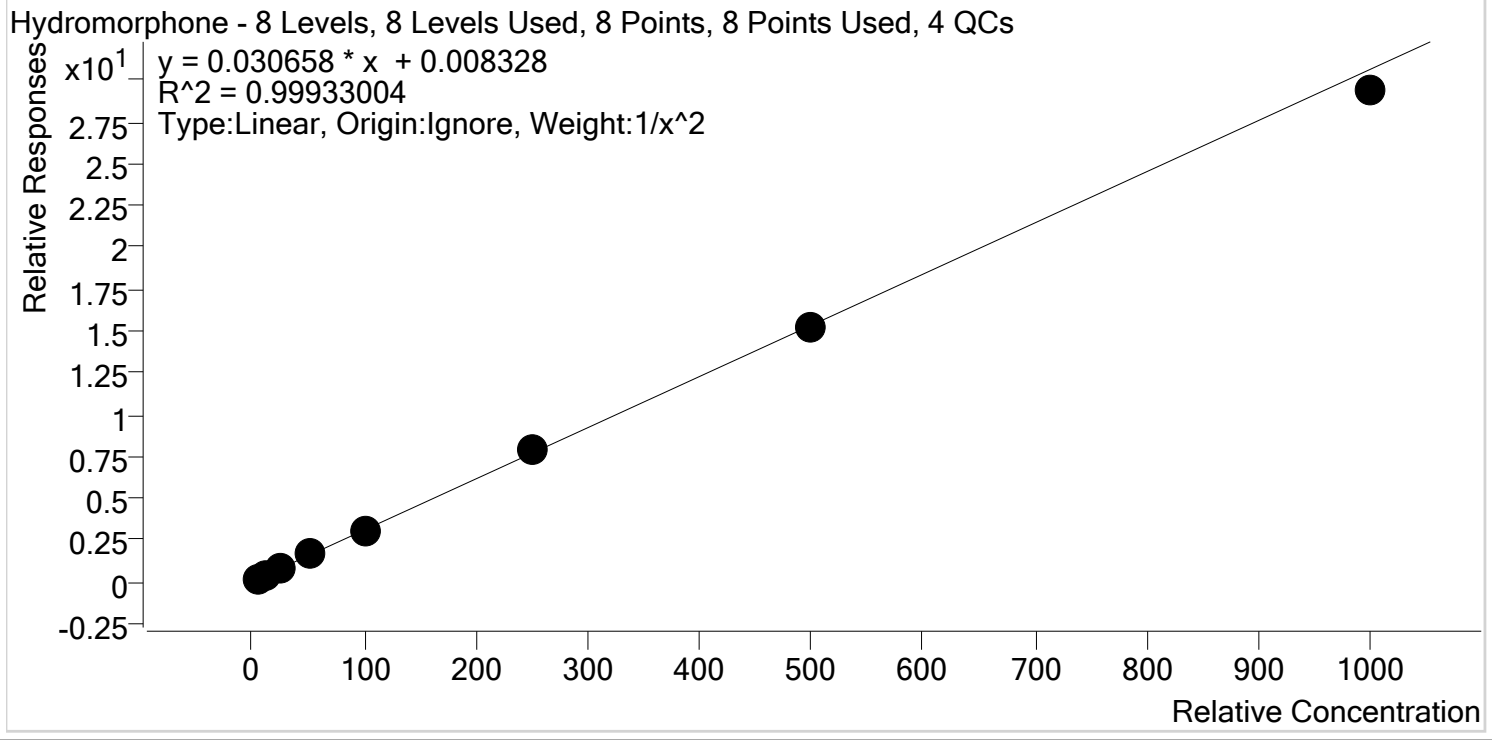
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng SP	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng SP	3	✓	25.0	26.9	107.6
p1 Cal 4-50ng SP	4	✓	50.0	56.1	112.1
p1 Cal 5-100ng SP	5	✓	100.0	109.5	109.5
p1 Cal 6-250ng SP	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng SP	7	✓	500.0	444.0	88.8
p1 Cal 8-1000ng SP	8	✓	1000.0	831.3	83.1

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6



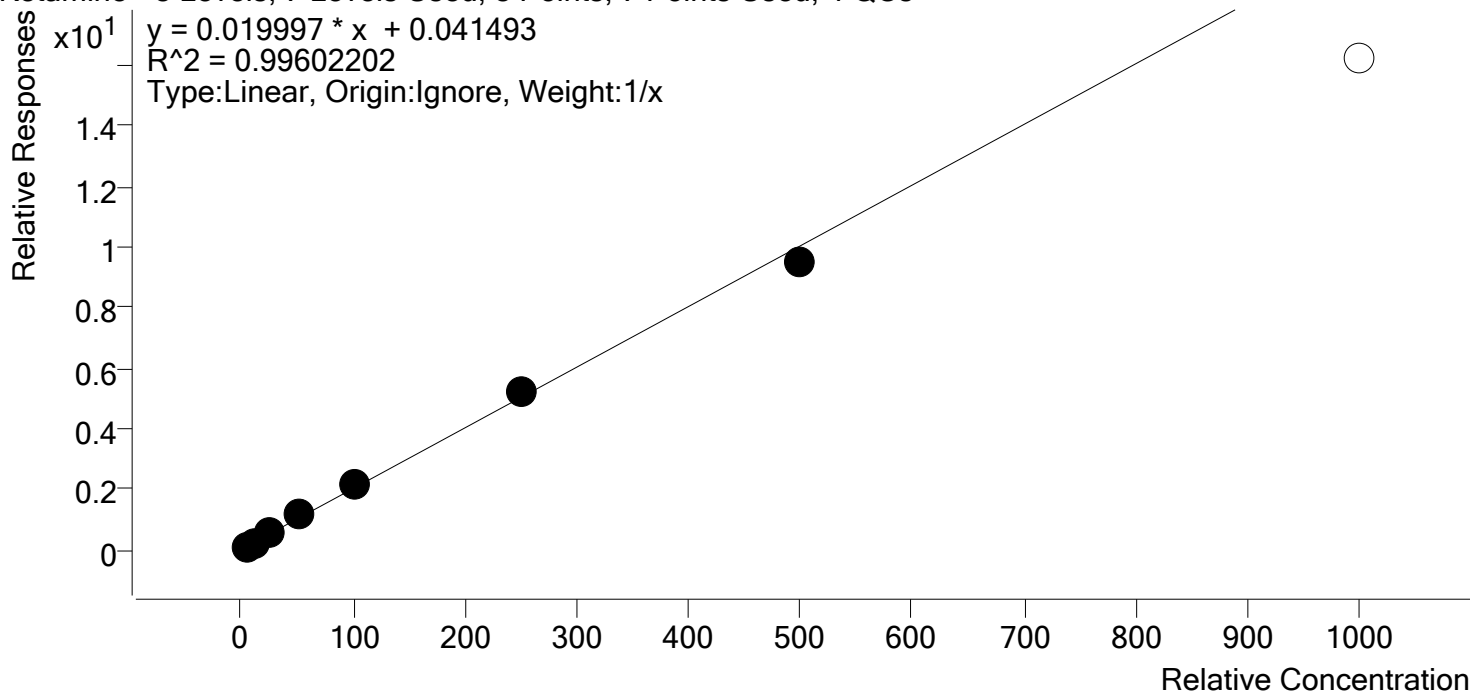
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng SP	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng SP	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng SP	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng SP	6	✓	250.0	256.0	102.4
p1 Cal 7-500ng SP	7	✓	500.0	495.6	99.1
p1 Cal 8-1000ng SP	8	✓	1000.0	958.5	95.9



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



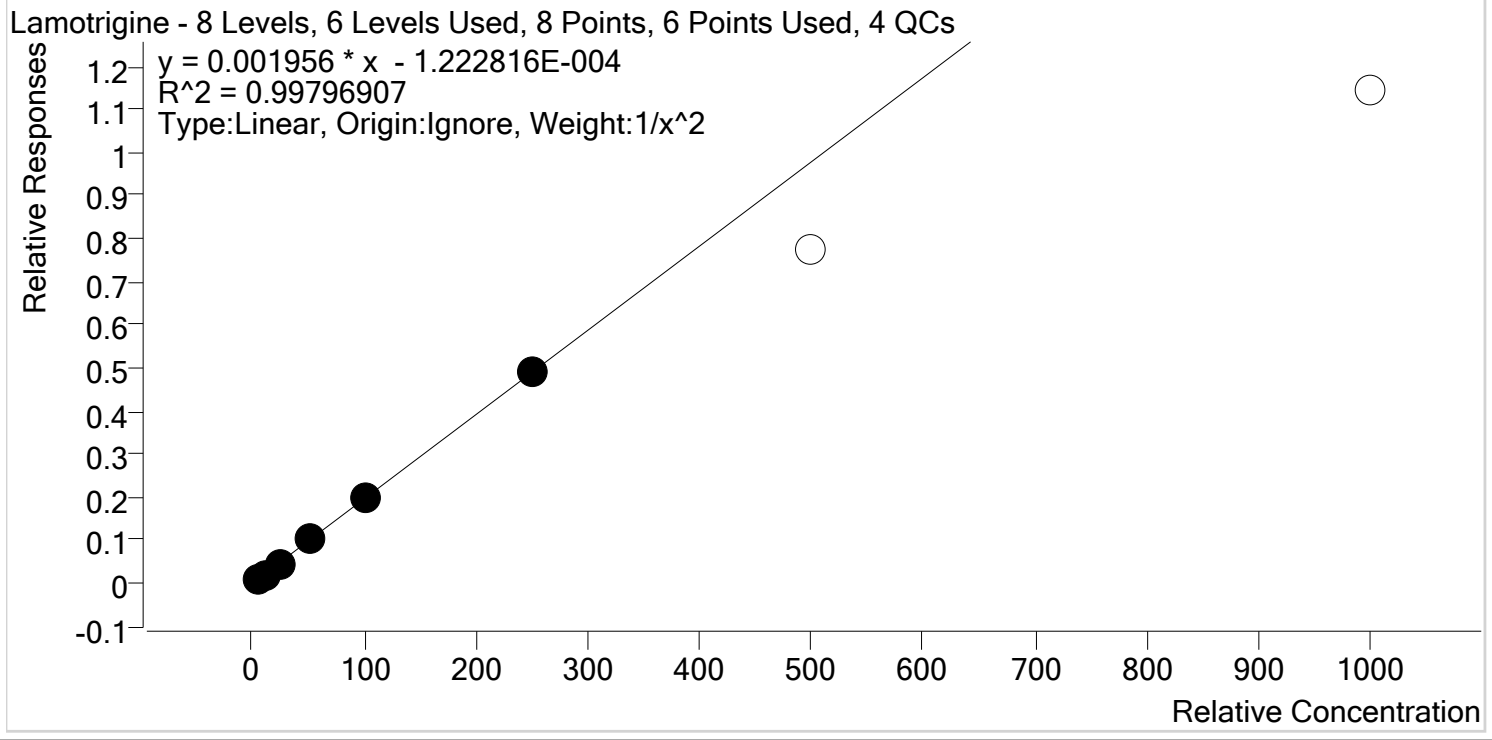
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.1	81.4
p1 Cal 2- 10ng SP	2	✓	10.0	9.5	95.2
p1 Cal 3 -25ng SP	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng SP	4	✓	50.0	55.1	110.2
p1 Cal 5-100ng SP	5	✓	100.0	108.0	108.0
p1 Cal 6-250ng SP	6	✓	250.0	261.8	104.7
p1 Cal 7-500ng SP	7	✓	500.0	475.1	95.0
p1 Cal 8-1000ng SP	8	✗	1000.0	808.6	80.9

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4



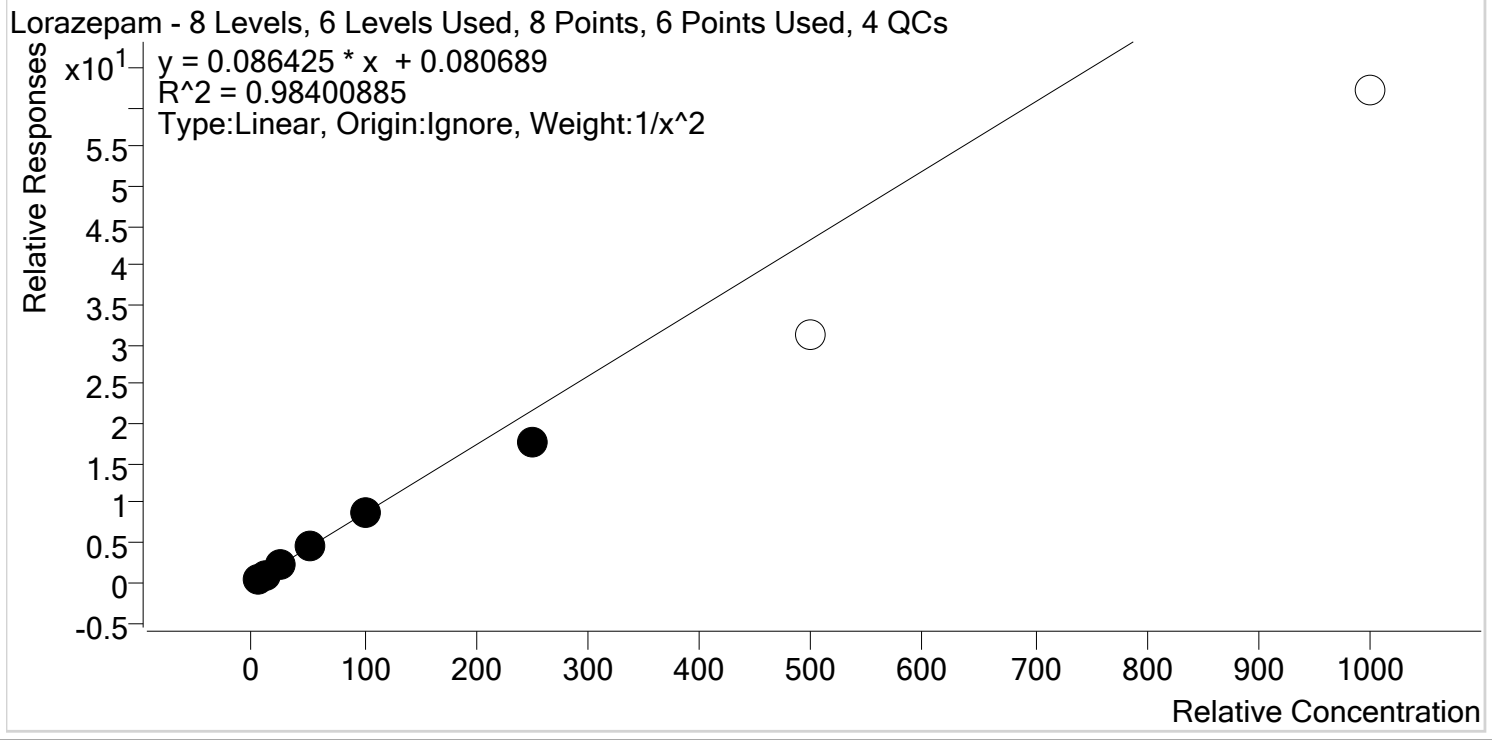
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	102.8
p1 Cal 2- 10ng SP	2	✓	10.0	9.5	94.7
p1 Cal 3 -25ng SP	3	✓	25.0	24.2	96.6
p1 Cal 4-50ng SP	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng SP	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng SP	6	✓	250.0	248.9	99.6
p1 Cal 7-500ng SP	7	x	500.0	396.5	79.3
p1 Cal 8-1000ng SP	8	x	1000.0	584.6	58.5

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4



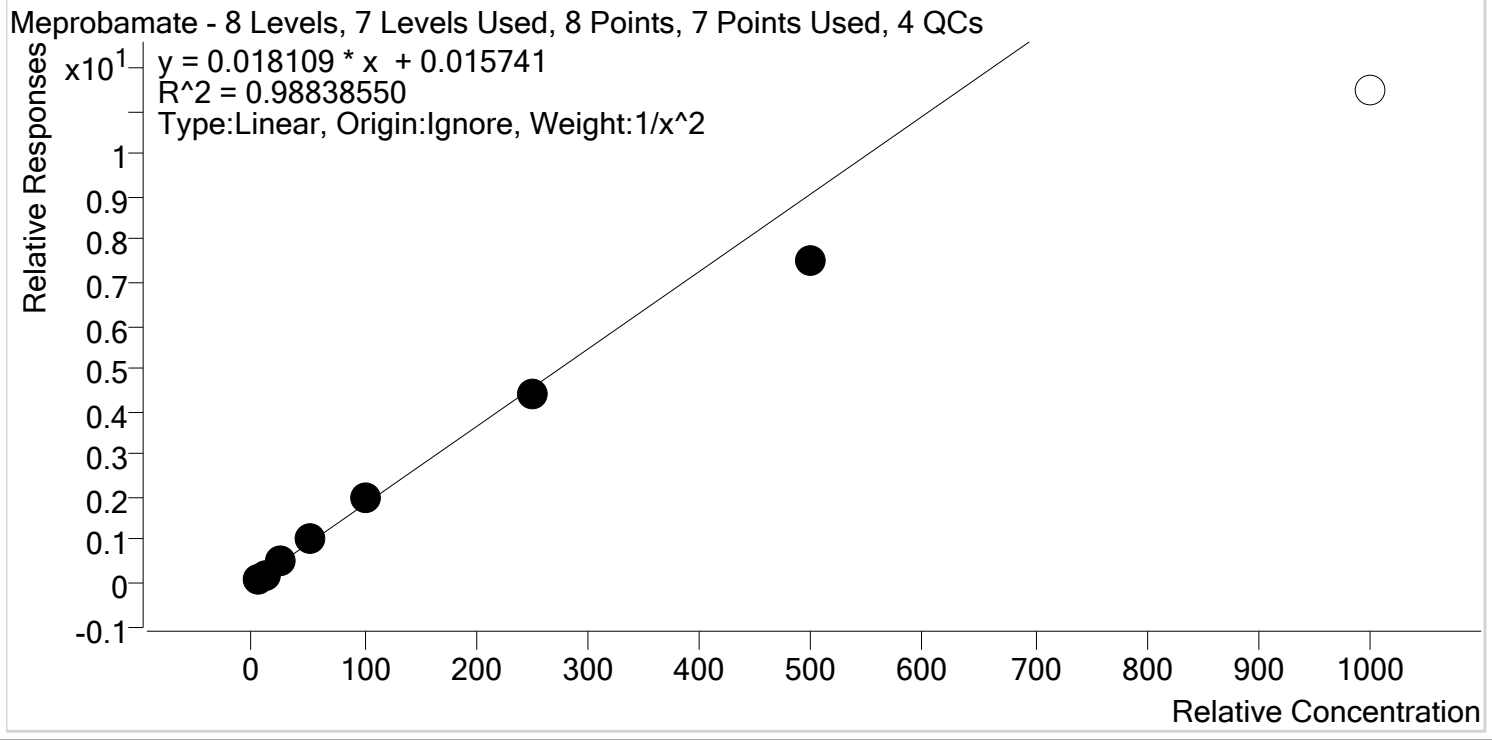
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.8	95.8
p1 Cal 2- 10ng SP	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng SP	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng SP	4	✓	50.0	54.4	108.8
p1 Cal 5-100ng SP	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng SP	6	✓	250.0	203.1	81.2
p1 Cal 7-500ng SP	7	✗	500.0	360.5	72.1
p1 Cal 8-1000ng SP	8	✗	1000.0	716.9	71.7

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



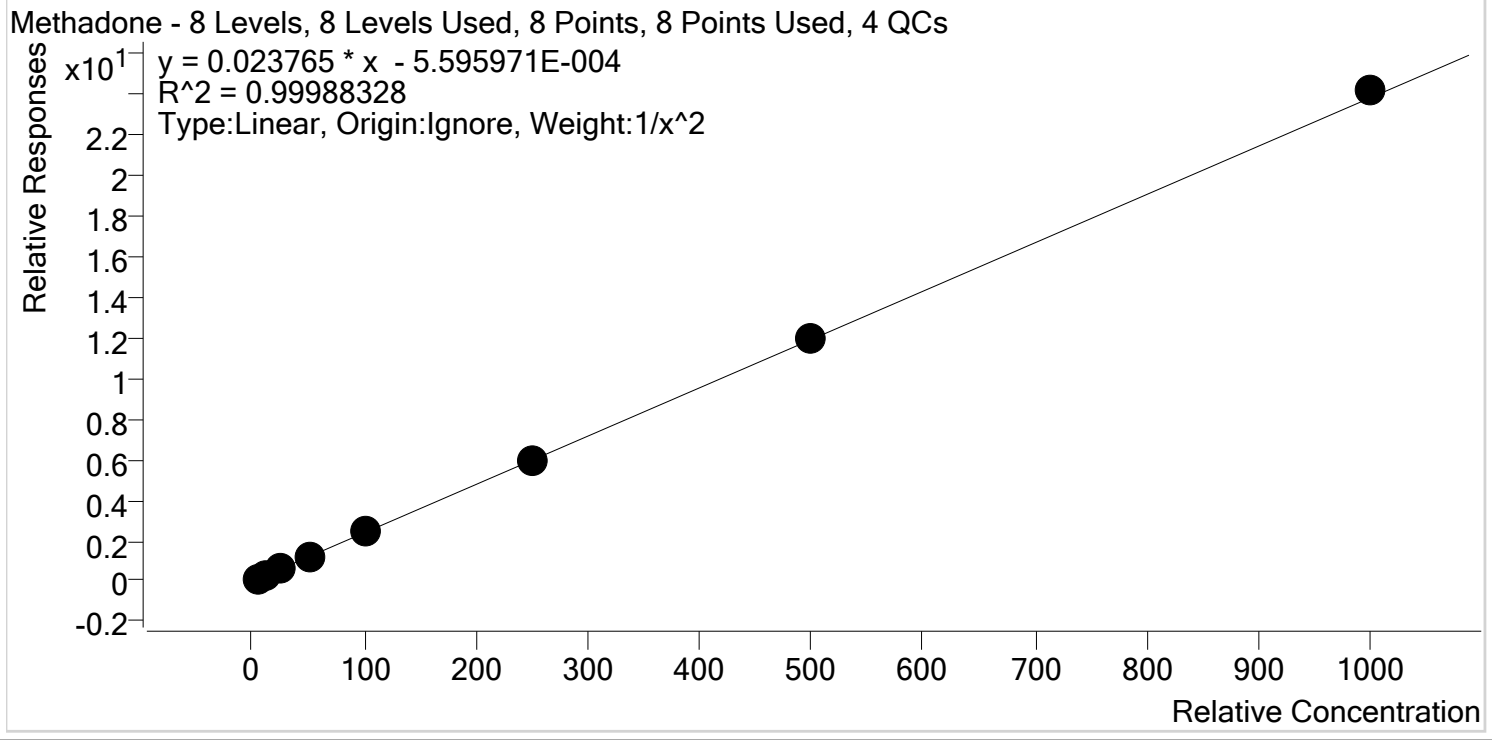
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng SP	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng SP	4	✓	50.0	54.9	109.9
p1 Cal 5-100ng SP	5	✓	100.0	107.2	107.2
p1 Cal 6-250ng SP	6	✓	250.0	240.6	96.2
p1 Cal 7-500ng SP	7	✓	500.0	413.4	82.7
p1 Cal 8-1000ng SP	8	✗	1000.0	632.4	63.2

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9



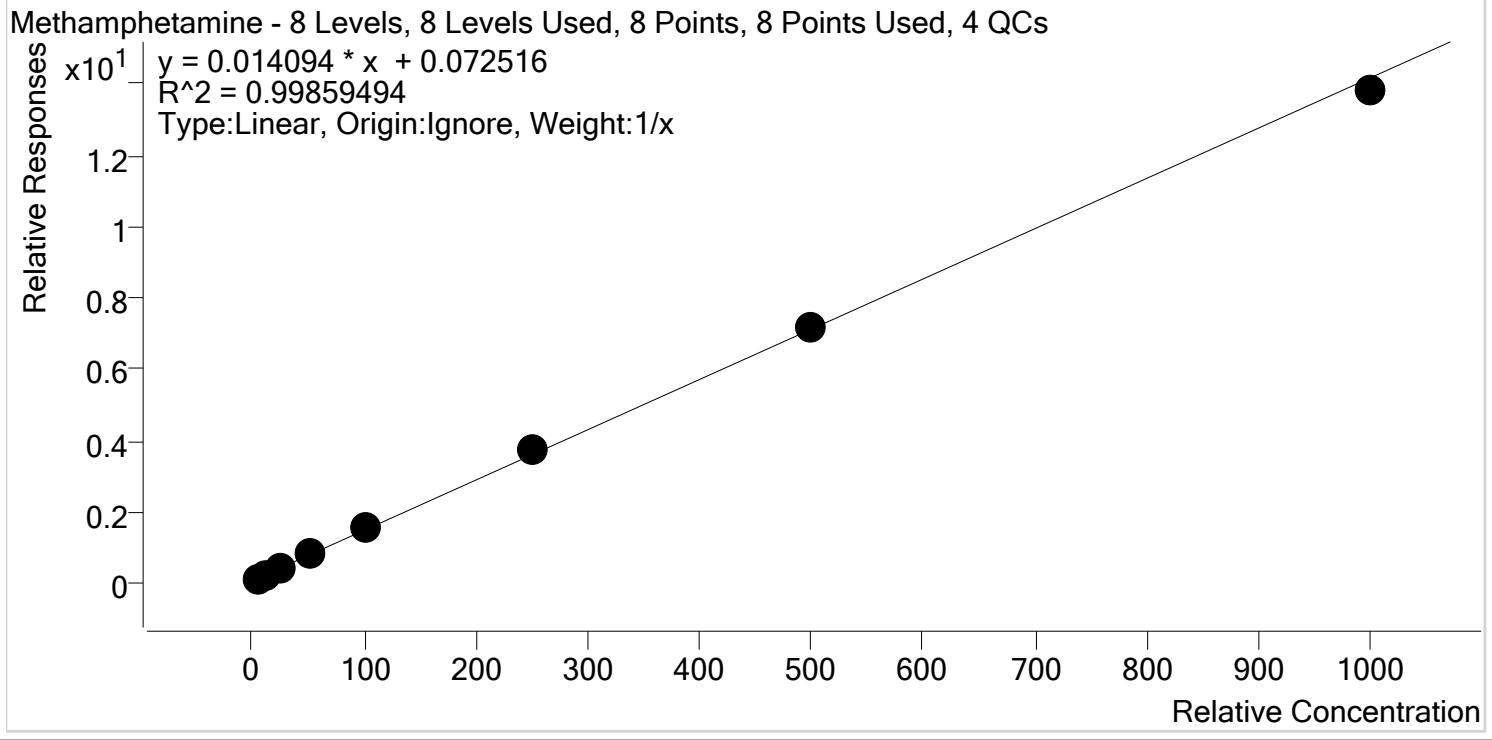
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng SP	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng SP	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng SP	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng SP	6	✓	250.0	246.7	98.7
p1 Cal 7-500ng SP	7	✓	500.0	504.5	100.9
p1 Cal 8-1000ng SP	8	✓	1000.0	1015.1	101.5

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	3.6	72.9
p1 Cal 2- 10ng SP	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng SP	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng SP	4	✓	50.0	55.6	111.3
p1 Cal 5-100ng SP	5	✓	100.0	105.9	105.9
p1 Cal 6-250ng SP	6	✓	250.0	260.0	104.0
p1 Cal 7-500ng SP	7	✓	500.0	503.5	100.7
p1 Cal 8-1000ng SP	8	✓	1000.0	974.8	97.5



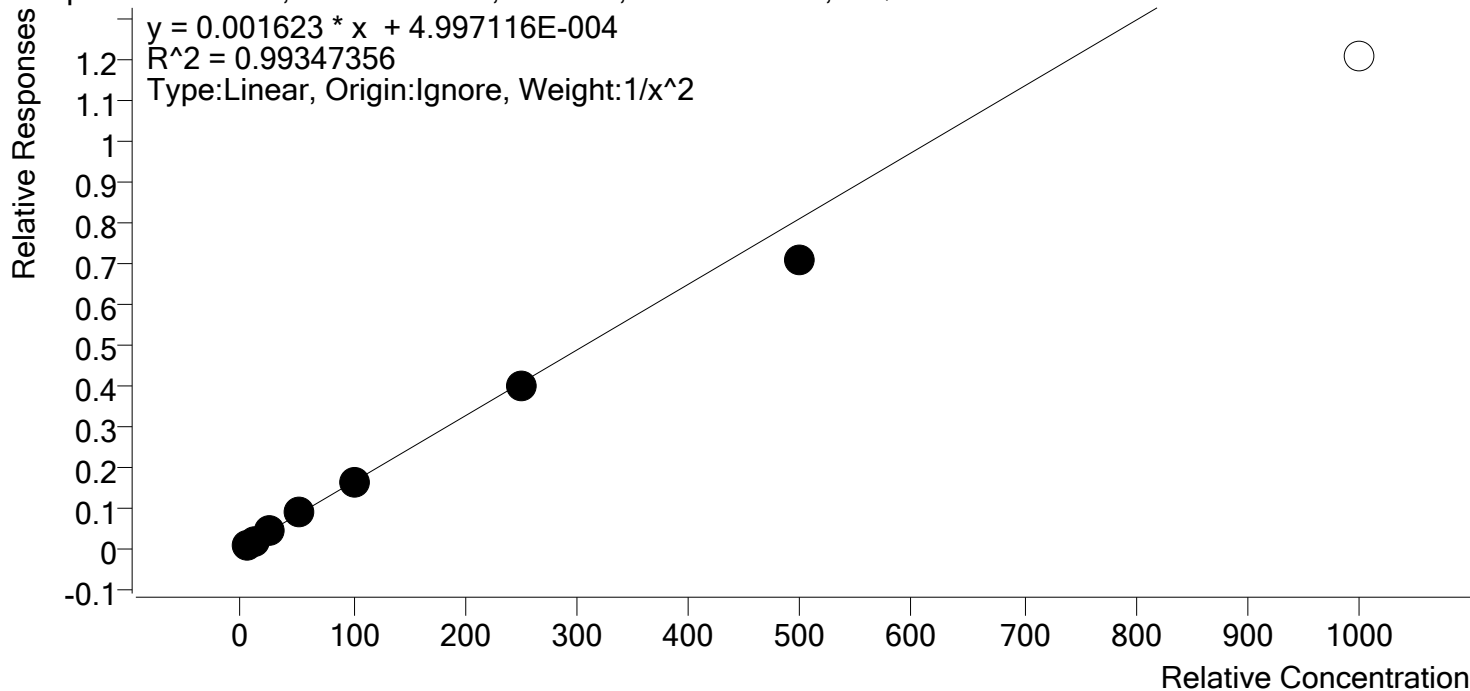
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.8	95.3
p1 Cal 2- 10ng SP	2	✓	10.0	10.6	106.2
p1 Cal 3 -25ng SP	3	✓	25.0	26.3	105.4
p1 Cal 4-50ng SP	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng SP	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng SP	6	✓	250.0	245.4	98.1
p1 Cal 7-500ng SP	7	✓	500.0	438.1	87.6
p1 Cal 8-1000ng SP	8	✗	1000.0	745.2	74.5

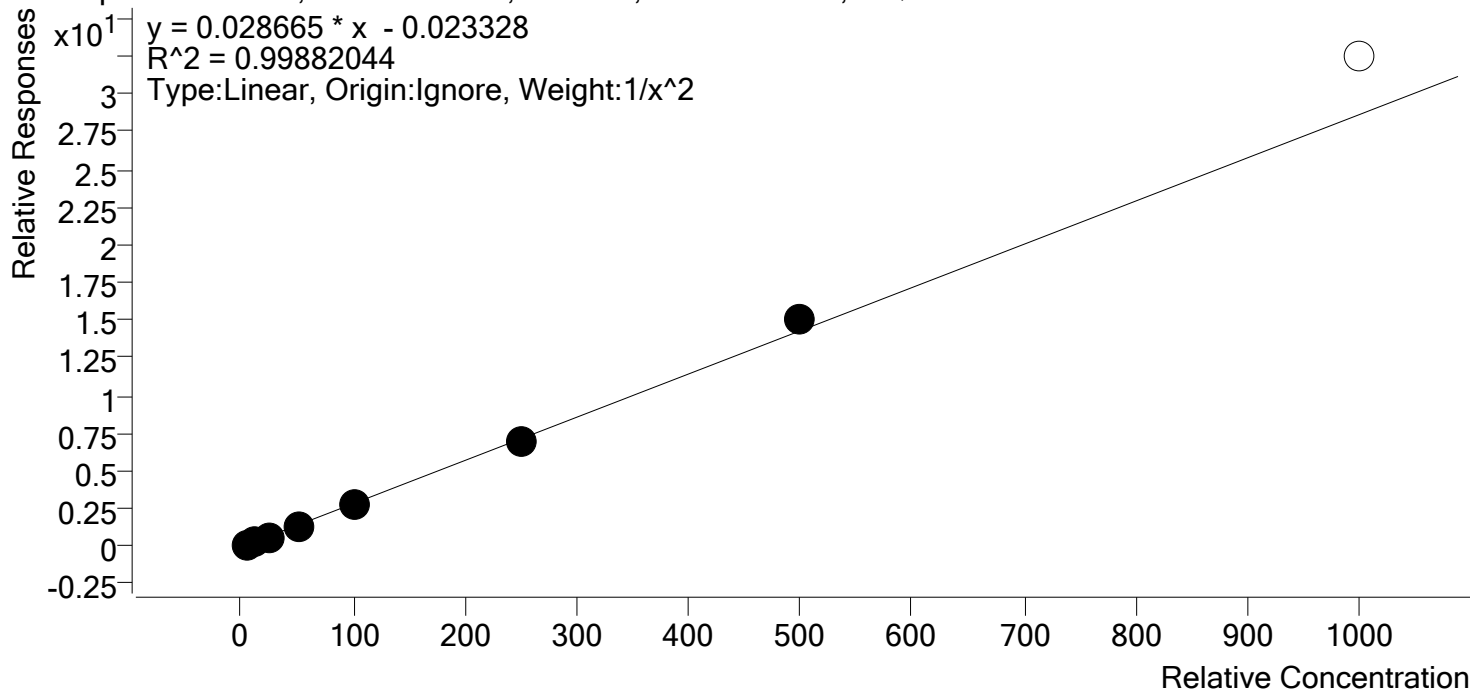
S



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

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



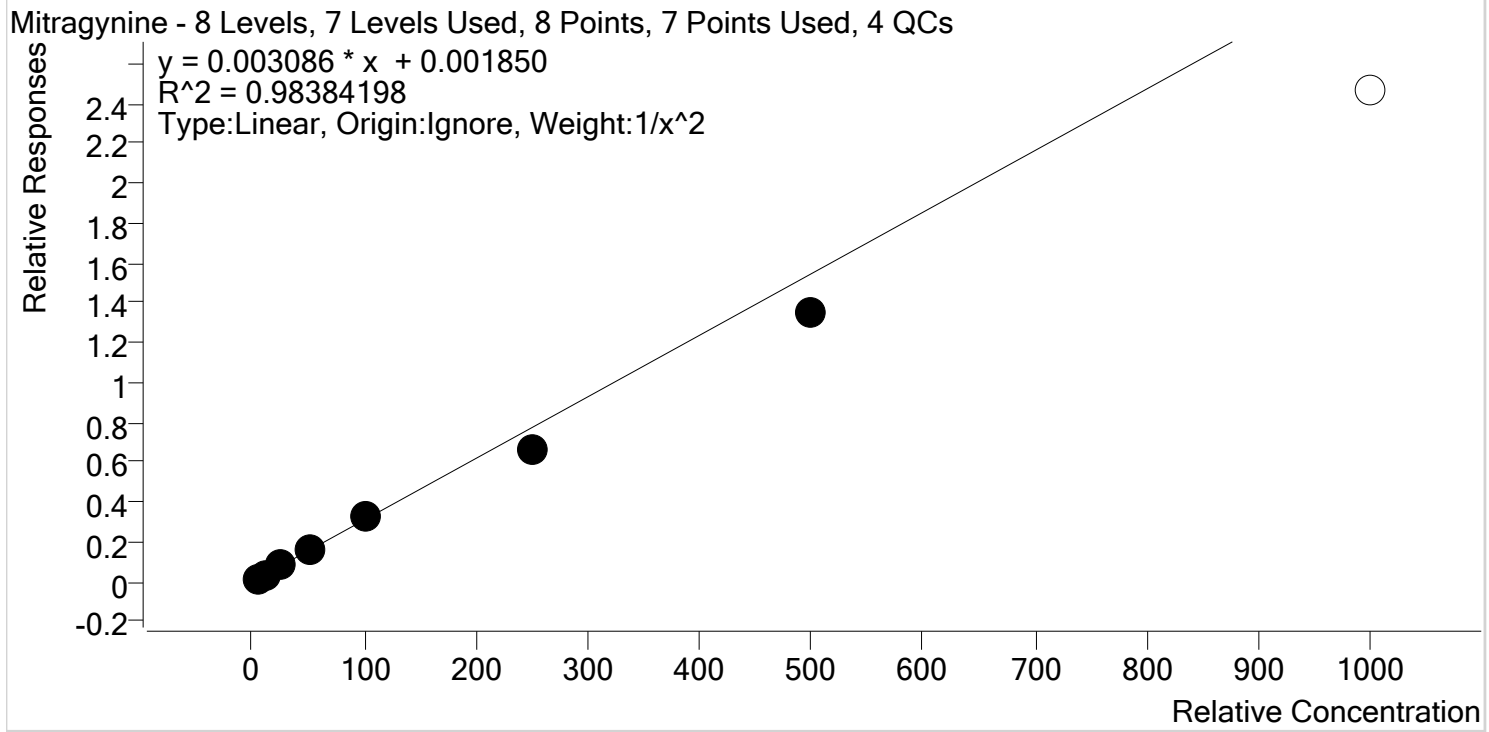
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng SP	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng SP	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng SP	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng SP	6	✓	250.0	244.4	97.7
p1 Cal 7-500ng SP	7	✓	500.0	528.9	105.8
p1 Cal 8-1000ng SP	8	✗	1000.0	1134.3	113.4

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9



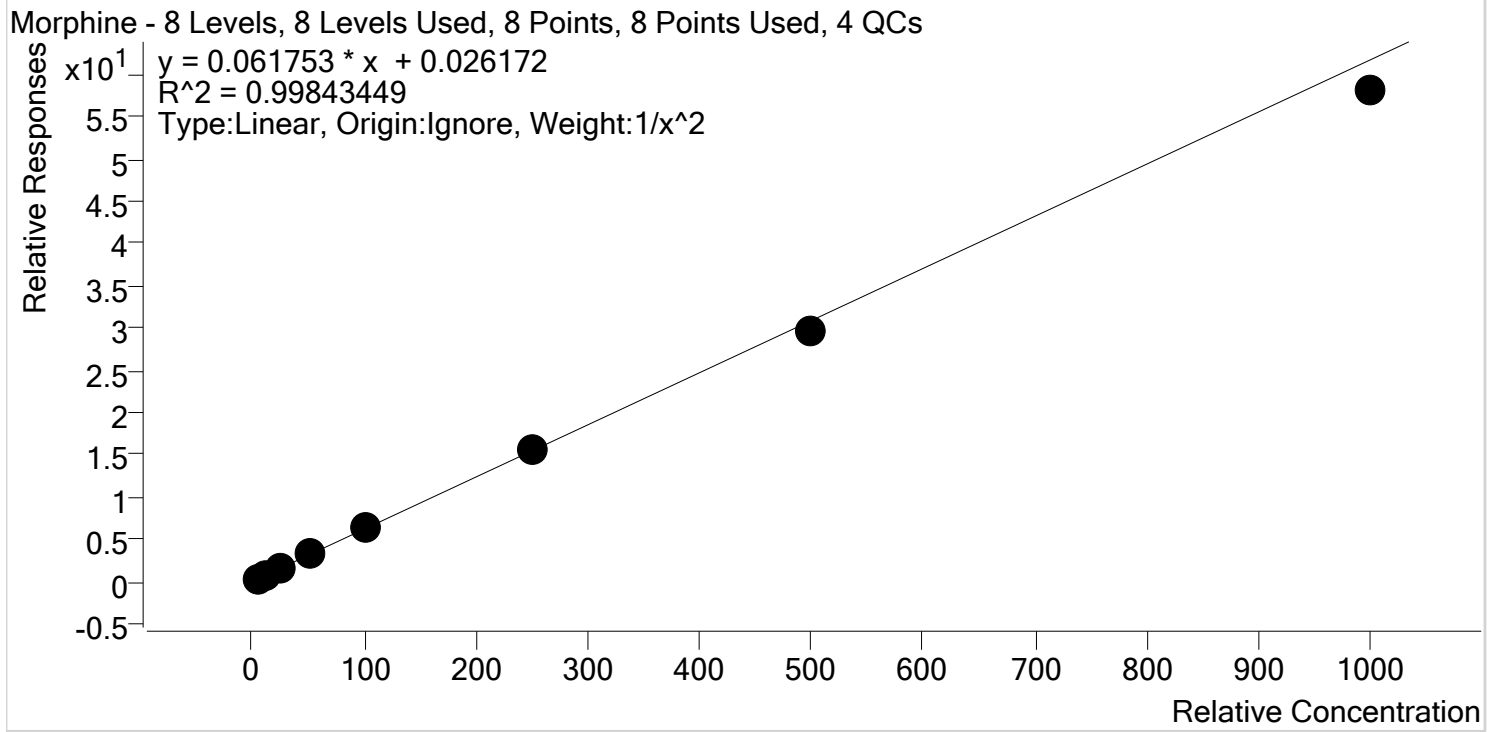
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.6	92.0
p1 Cal 2- 10ng SP	2	✓	10.0	11.1	111.3
p1 Cal 3 -25ng SP	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng SP	4	✓	50.0	54.1	108.1
p1 Cal 5-100ng SP	5	✓	100.0	106.9	106.9
p1 Cal 6-250ng SP	6	✓	250.0	217.1	86.8
p1 Cal 7-500ng SP	7	✓	500.0	435.6	87.1
p1 Cal 8-1000ng SP	8	✗	1000.0	797.5	79.7

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6



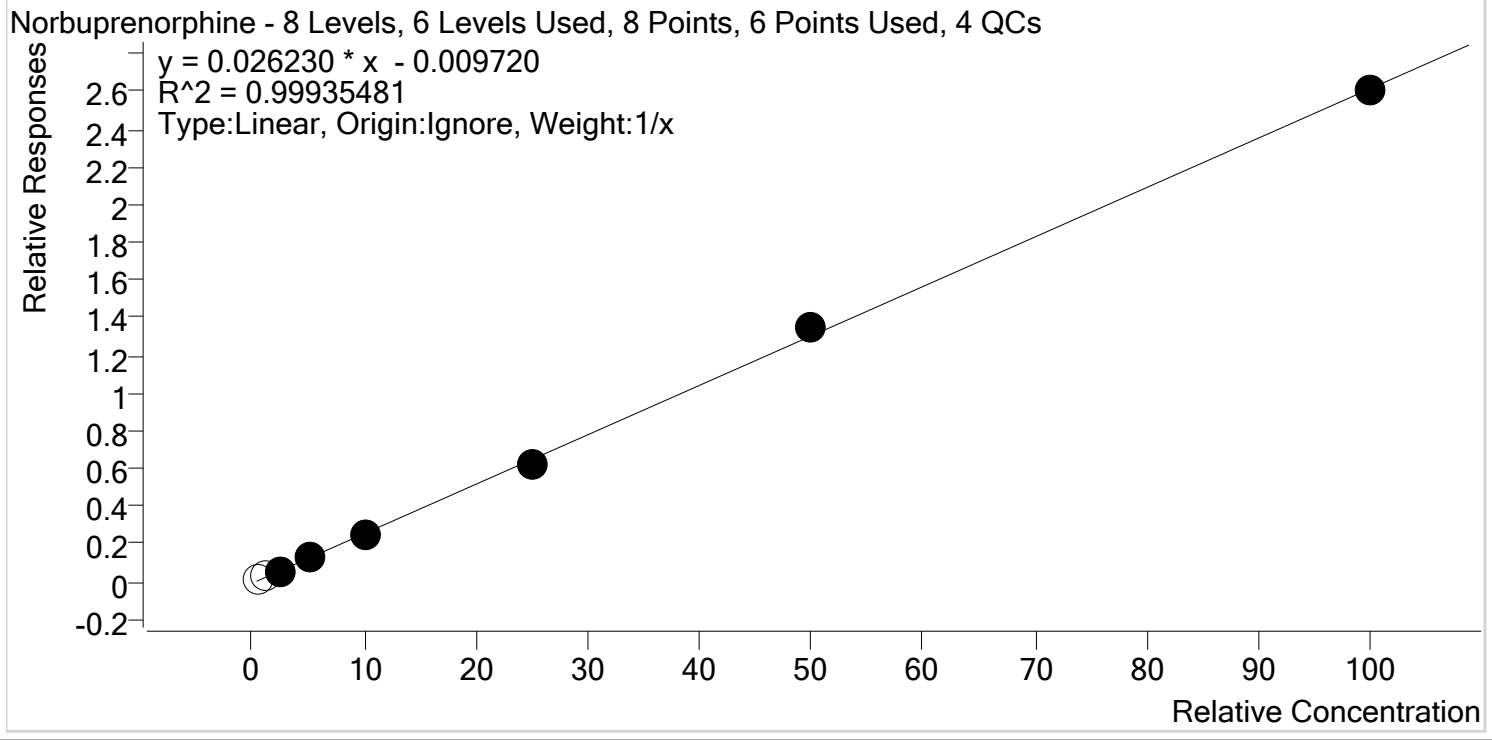
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng SP	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng SP	4	✓	50.0	51.6	103.1
p1 Cal 5-100ng SP	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng SP	6	✓	250.0	255.0	102.0
p1 Cal 7-500ng SP	7	✓	500.0	479.4	95.9
p1 Cal 8-1000ng SP	8	✓	1000.0	941.1	94.1

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



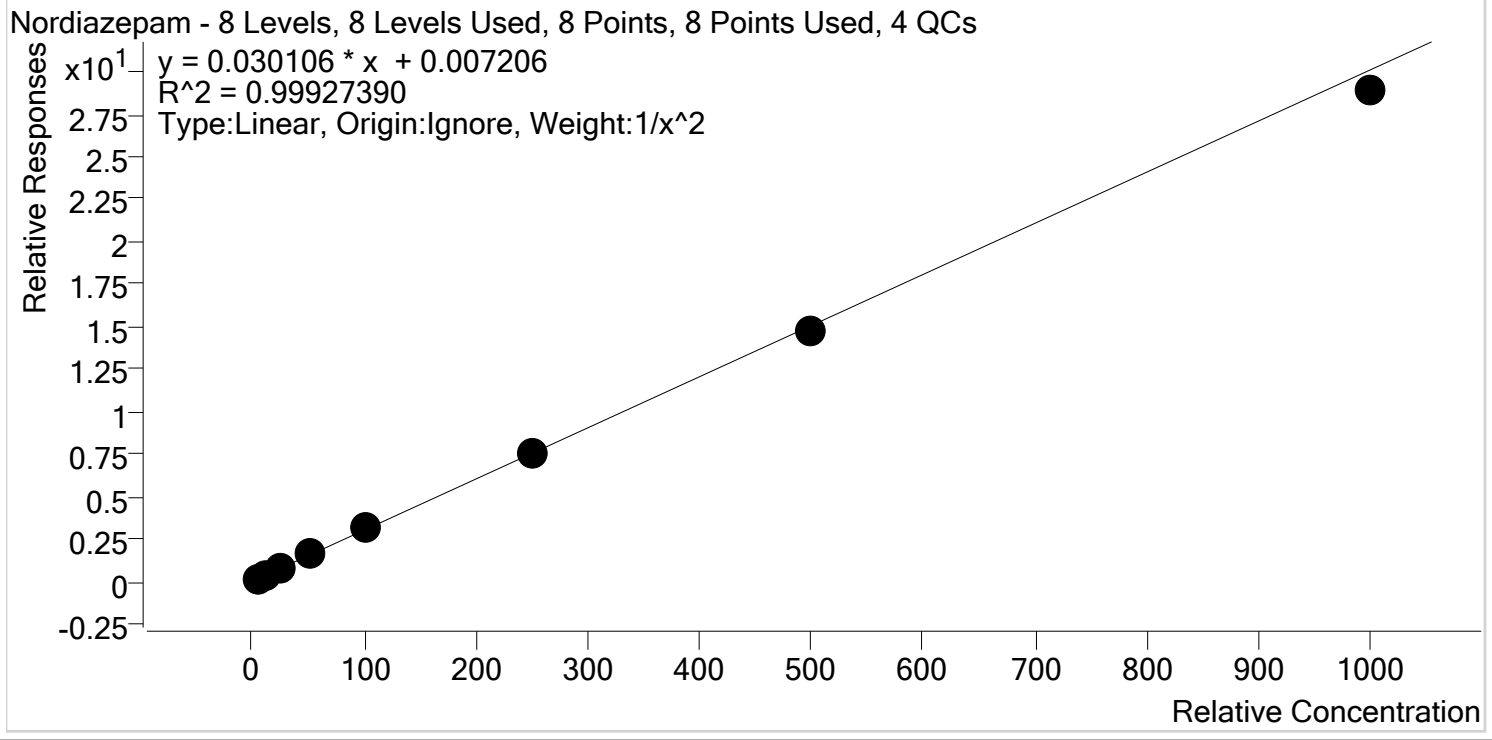
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	x	0.5	0.9	178.3
p1 Cal 2- 10ng SP	2	x	1.0	1.2	118.5
p1 Cal 3 -25ng SP	3	✓	2.5	2.6	105.6
p1 Cal 4-50ng SP	4	✓	5.0	5.0	99.3
p1 Cal 5-100ng SP	5	✓	10.0	9.5	95.5
p1 Cal 6-250ng SP	6	✓	25.0	24.3	97.1
p1 Cal 7-500ng SP	7	✓	50.0	51.5	102.9
p1 Cal 8-1000ng SP	8	✓	100.0	99.6	99.6

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam Internal Standard Nordiazepam-D5

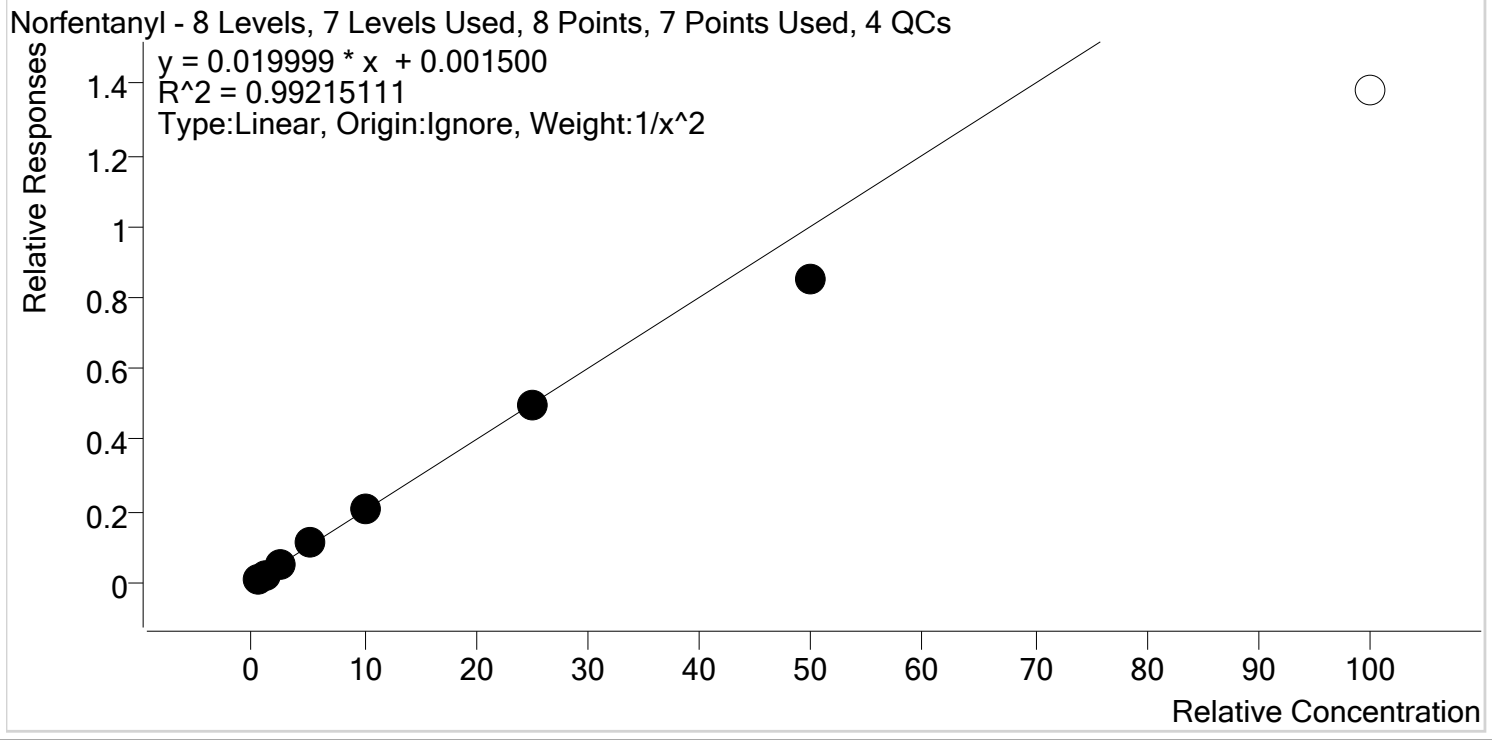


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng SP	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng SP	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng SP	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng SP	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng SP	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng SP	7	✓	500.0	488.5	97.7
p1 Cal 8-1000ng SP	8	✓	1000.0	959.6	96.0



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	0.5	0.5	96.8
p1 Cal 2- 10ng SP	2	✓	1.0	1.0	102.8
p1 Cal 3 -25ng SP	3	✓	2.5	2.6	105.2
p1 Cal 4-50ng SP	4	✓	5.0	5.4	107.1
p1 Cal 5-100ng SP	5	✓	10.0	10.5	104.5
p1 Cal 6-250ng SP	6	✓	25.0	24.6	98.5
p1 Cal 7-500ng SP	7	✓	50.0	42.6	85.1
p1 Cal 8-1000ng SP	8	✗	100.0	69.0	69.0

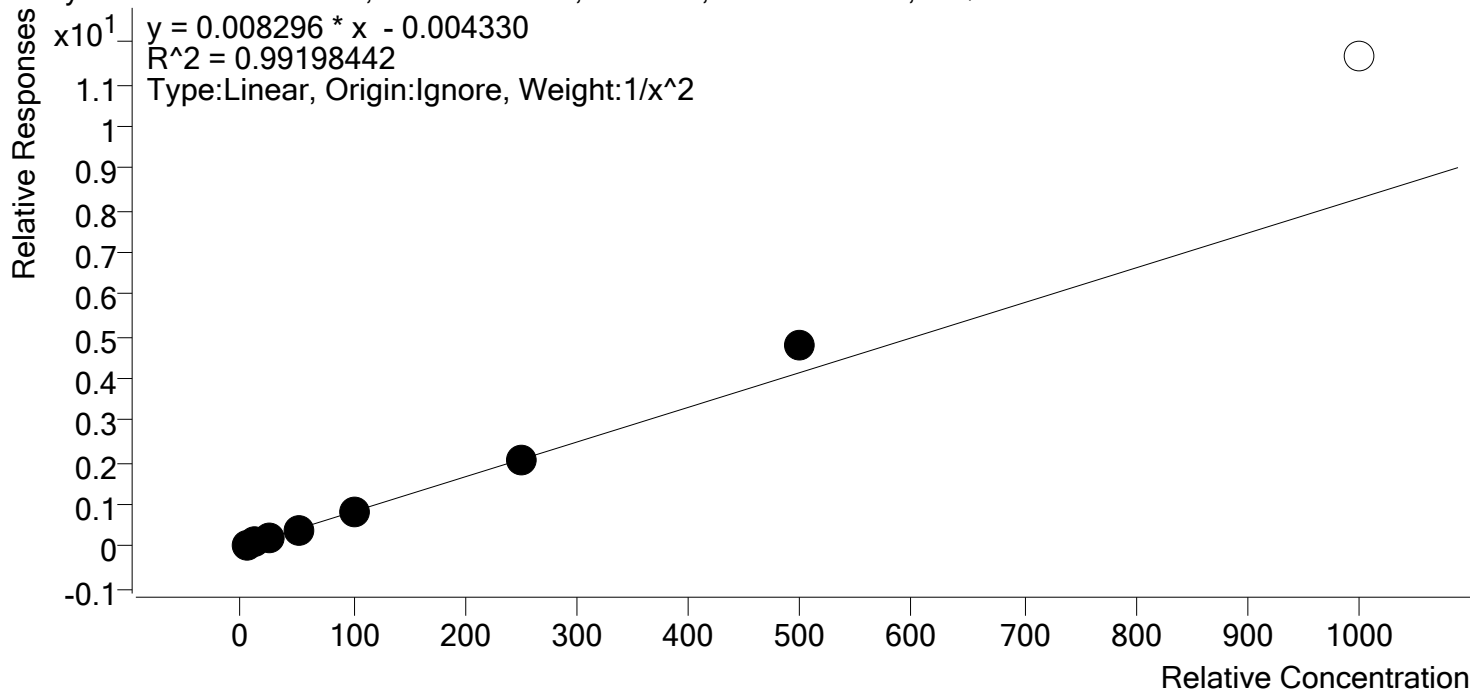
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.2	103.6
p1 Cal 2- 10ng SP	2	✓	10.0	9.6	95.6
p1 Cal 3 -25ng SP	3	✓	25.0	24.0	96.1
p1 Cal 4-50ng SP	4	✓	50.0	47.7	95.4
p1 Cal 5-100ng SP	5	✓	100.0	94.0	94.0
p1 Cal 6-250ng SP	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng SP	7	✓	500.0	577.7	115.5
p1 Cal 8-1000ng SP	8	✗	1000.0	1407.3	140.7

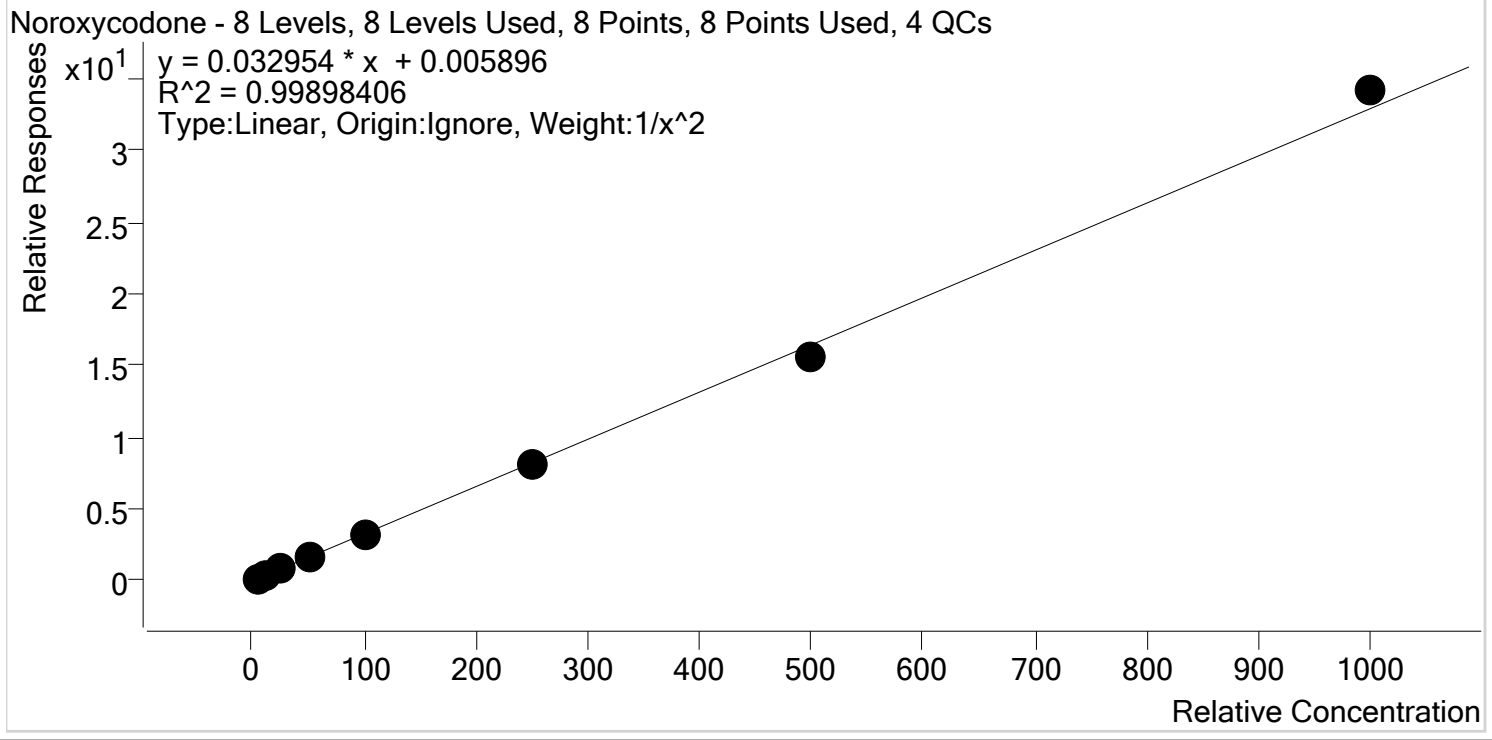


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng SP	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng SP	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng SP	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng SP	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng SP	7	✓	500.0	472.0	94.4
p1 Cal 8-1000ng SP	8	✓	1000.0	1038.3	103.8

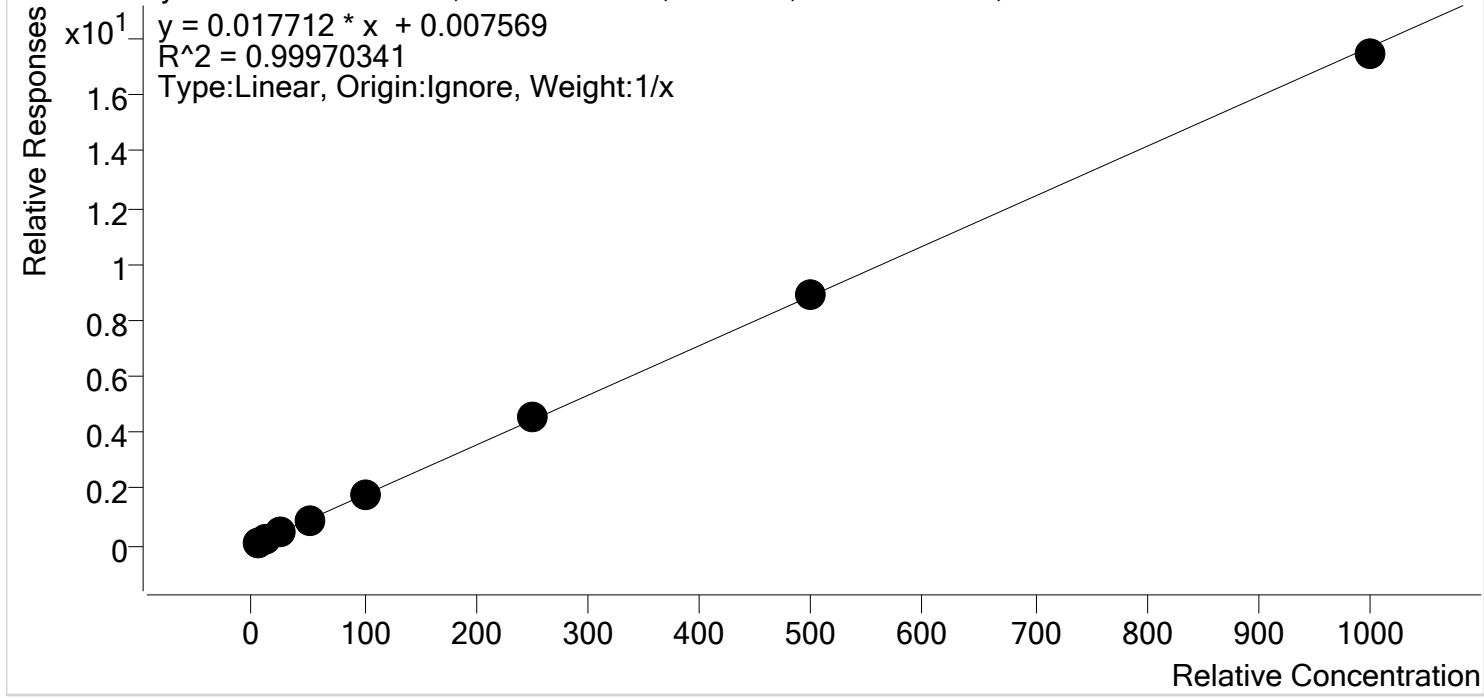
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

O-desmethyl-tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

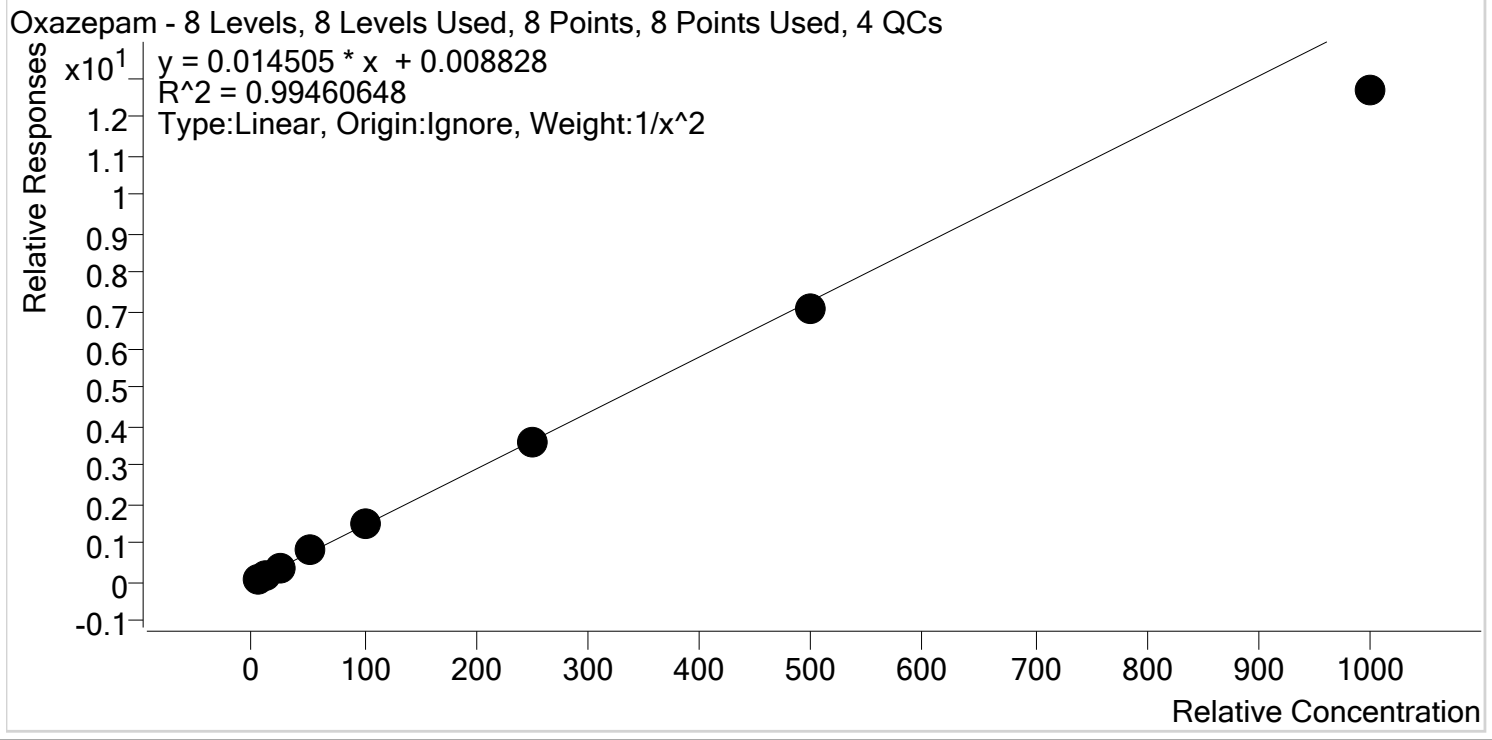


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.8	95.0
p1 Cal 2- 10ng SP	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng SP	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng SP	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng SP	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng SP	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng SP	7	✓	500.0	506.1	101.2
p1 Cal 8-1000ng SP	8	✓	1000.0	985.2	98.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam Internal Standard Oxazepam-D5

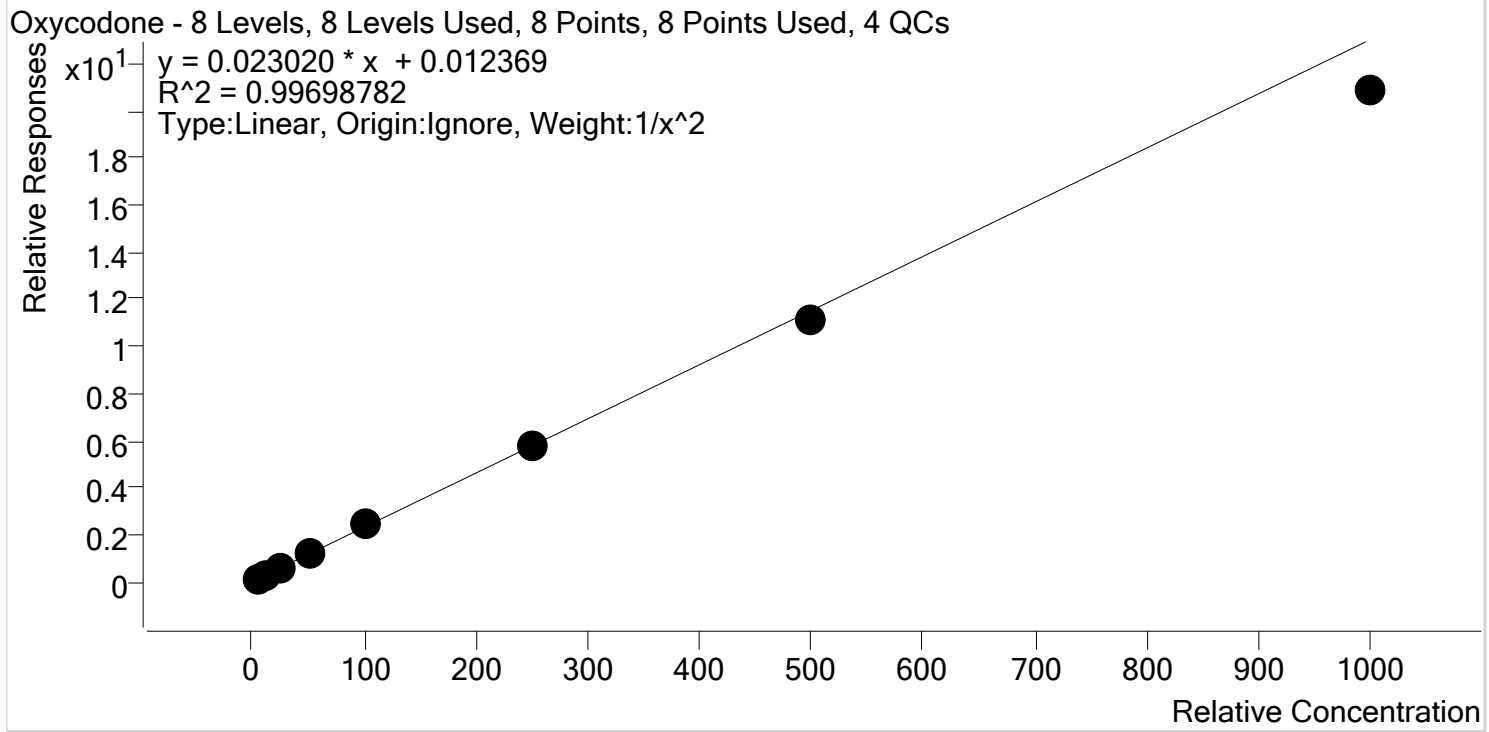


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng SP	2	✓	10.0	10.3	103.5
p1 Cal 3 -25ng SP	3	✓	25.0	26.0	104.2
p1 Cal 4-50ng SP	4	✓	50.0	54.0	108.1
p1 Cal 5-100ng SP	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng SP	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng SP	7	✓	500.0	483.4	96.7
p1 Cal 8-1000ng SP	8	✓	1000.0	874.4	87.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng SP	3	✓	25.0	25.9	103.5
p1 Cal 4-50ng SP	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng SP	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng SP	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng SP	7	✓	500.0	484.8	97.0
p1 Cal 8-1000ng SP	8	✓	1000.0	906.0	90.6

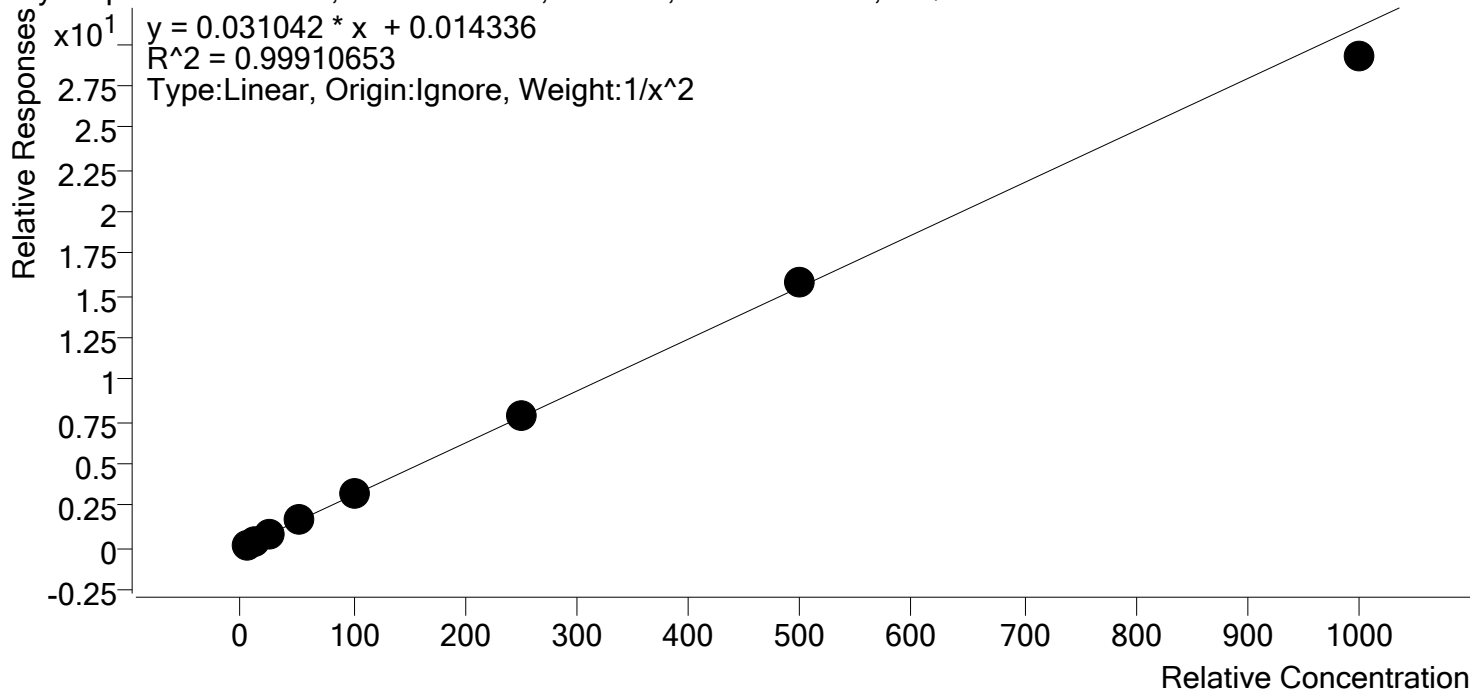
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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



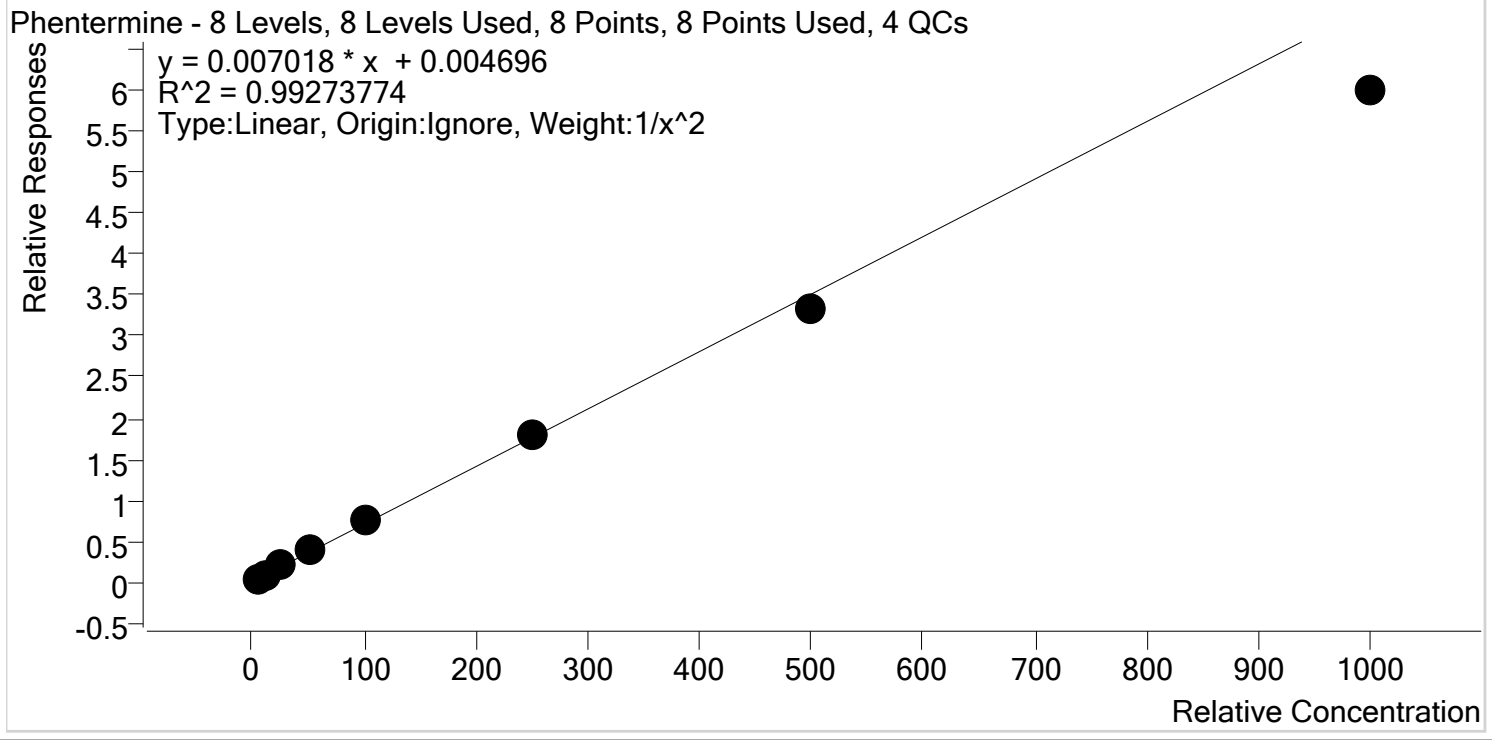
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng SP	3	✓	25.0	25.6	102.5
p1 Cal 4-50ng SP	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng SP	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng SP	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng SP	7	✓	500.0	512.8	102.6
p1 Cal 8-1000ng SP	8	✓	1000.0	942.4	94.2

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5



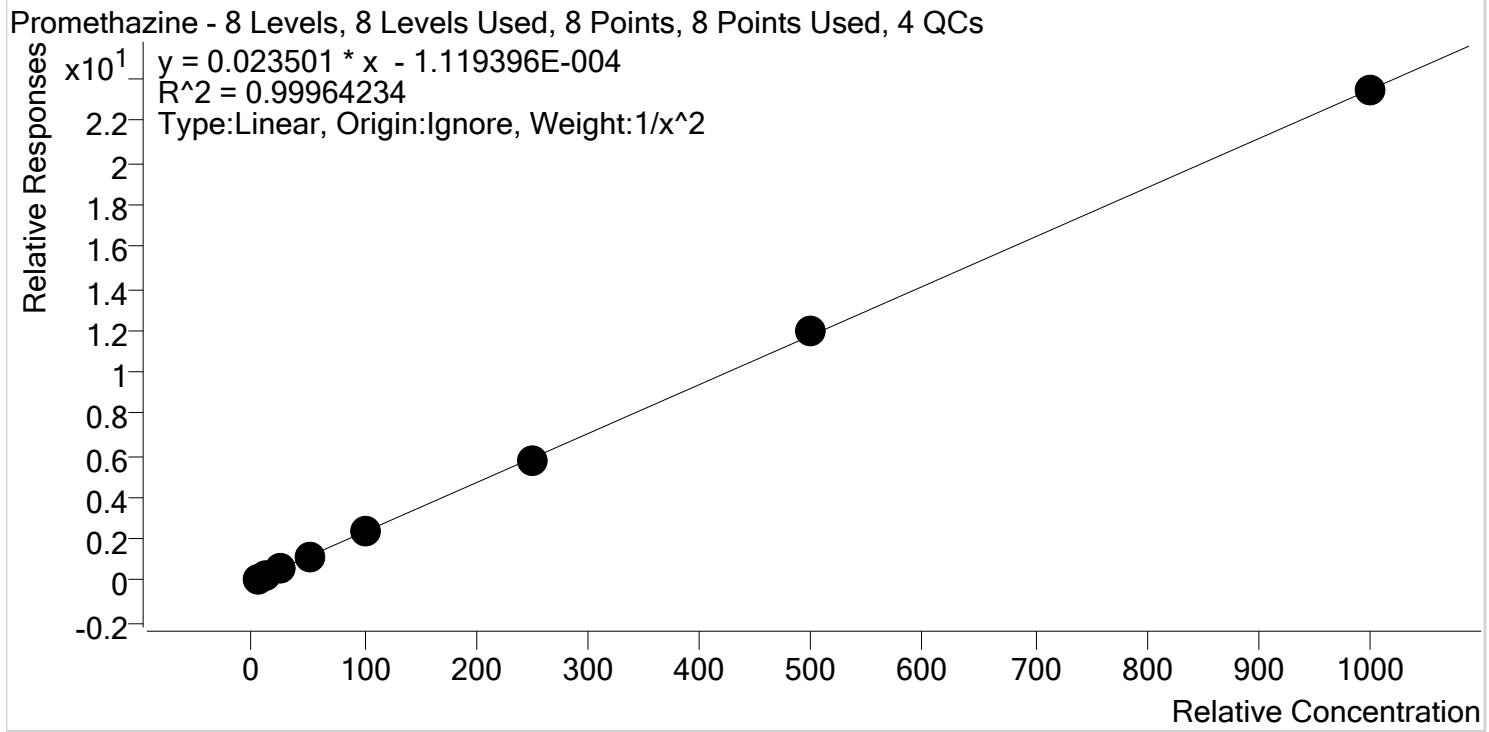
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng SP	3	✓	25.0	26.5	106.2
p1 Cal 4-50ng SP	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng SP	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng SP	6	✓	250.0	256.4	102.5
p1 Cal 7-500ng SP	7	✓	500.0	472.3	94.5
p1 Cal 8-1000ng SP	8	✓	1000.0	854.1	85.4

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

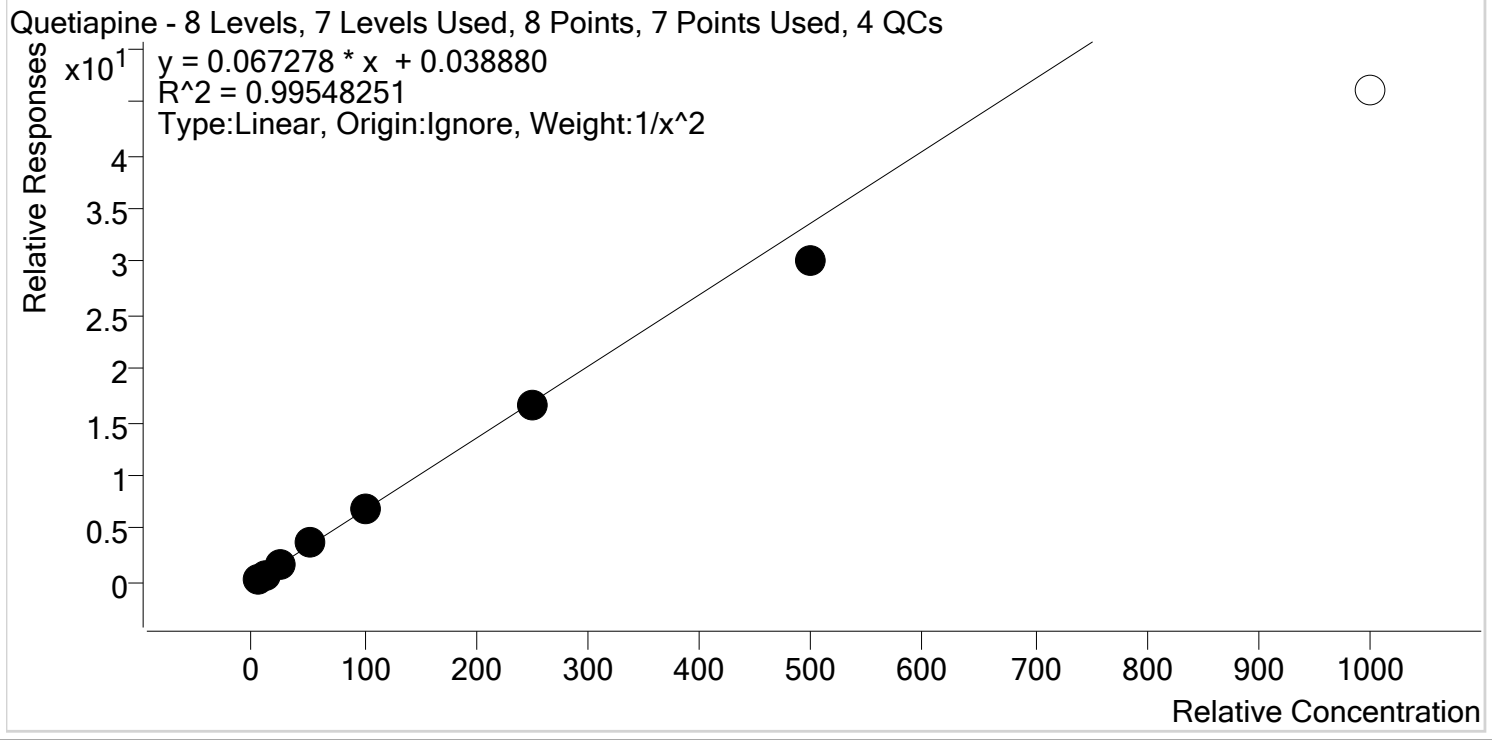


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng SP	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng SP	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng SP	4	✓	50.0	49.7	99.3
p1 Cal 5-100ng SP	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng SP	6	✓	250.0	245.9	98.4
p1 Cal 7-500ng SP	7	✓	500.0	506.5	101.3
p1 Cal 8-1000ng SP	8	✓	1000.0	998.0	99.8



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8



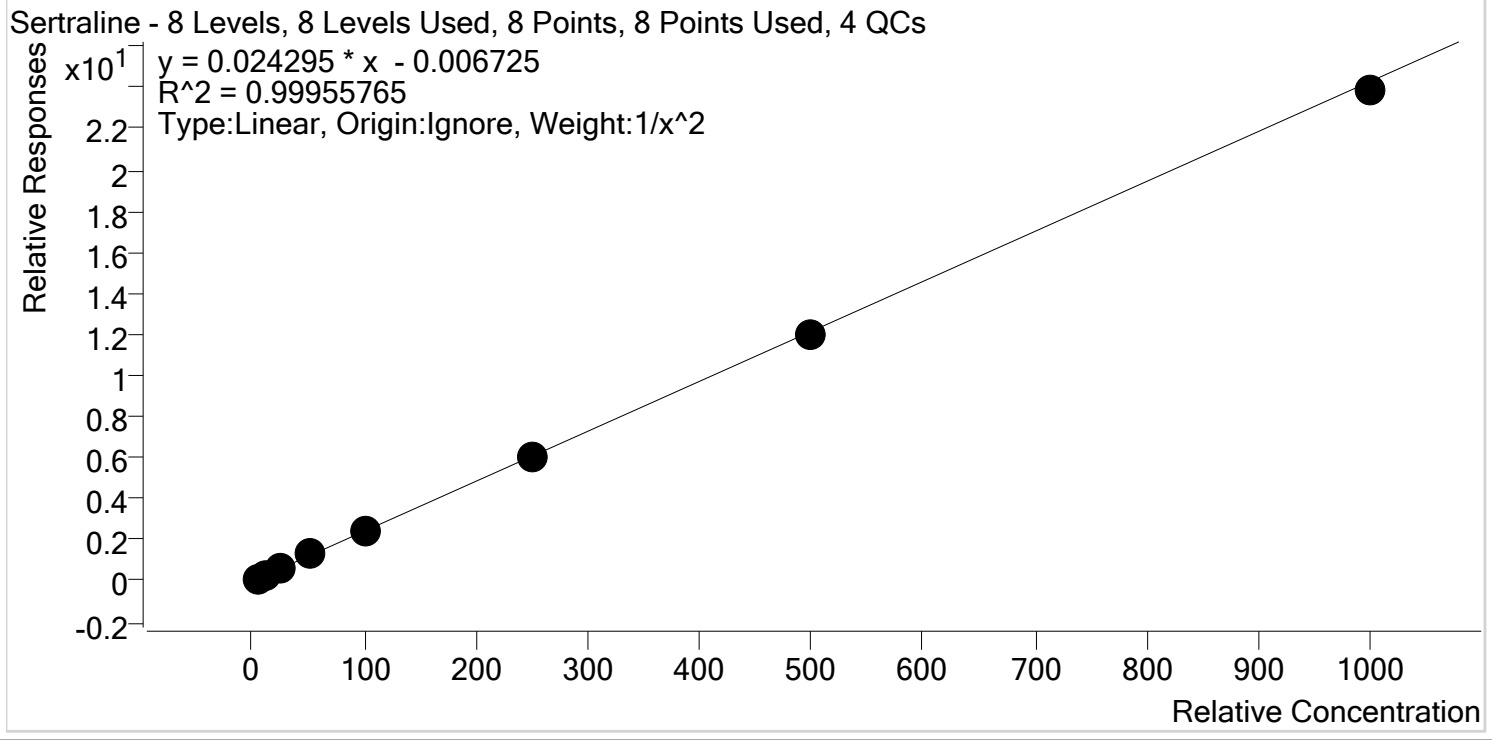
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng SP	2	✓	10.0	10.3	103.5
p1 Cal 3 -25ng SP	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng SP	4	✓	50.0	53.1	106.1
p1 Cal 5-100ng SP	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng SP	6	✓	250.0	245.2	98.1
p1 Cal 7-500ng SP	7	✓	500.0	447.7	89.5
p1 Cal 8-1000ng SP	8	✗	1000.0	683.8	68.4





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



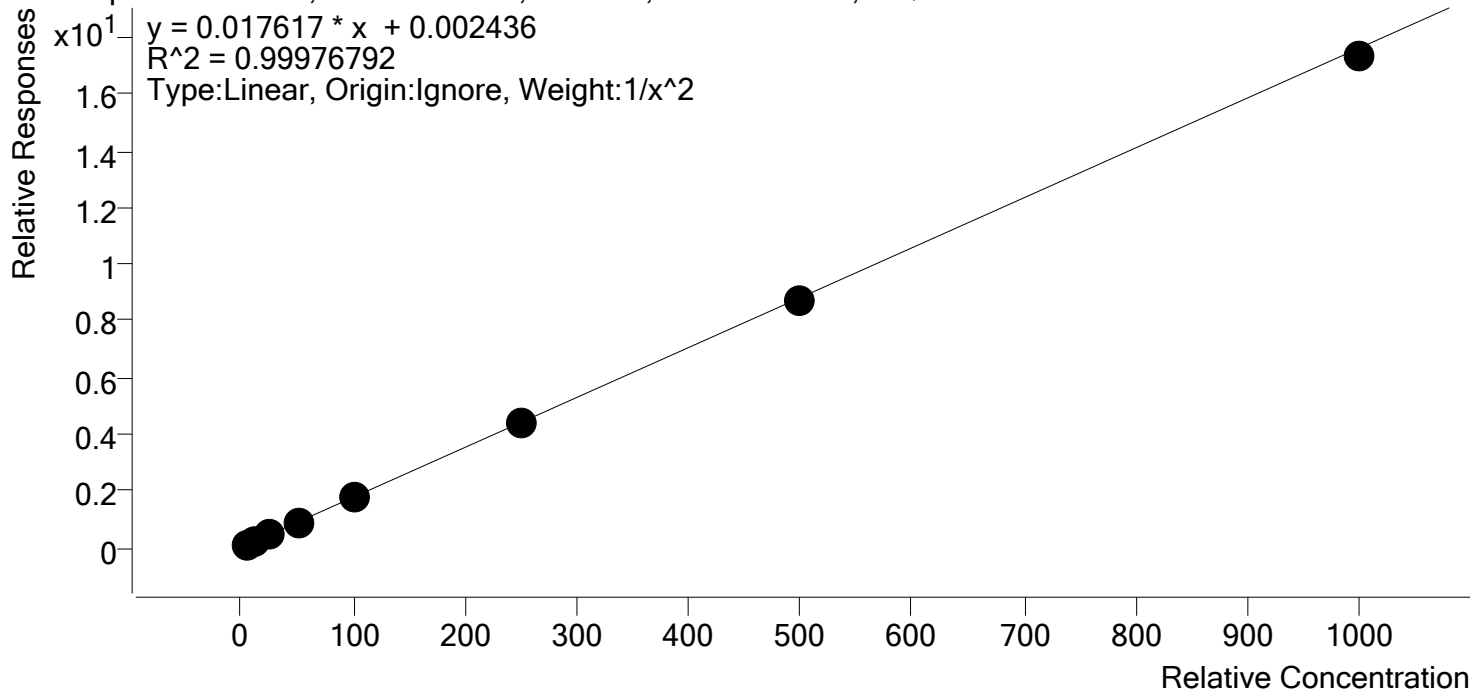
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng SP	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng SP	4	✓	50.0	52.0	104.1
p1 Cal 5-100ng SP	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng SP	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng SP	7	✓	500.0	495.5	99.1
p1 Cal 8-1000ng SP	8	✓	1000.0	981.8	98.2



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 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 SP	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng SP	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng SP	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng SP	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng SP	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng SP	7	✓	500.0	494.0	98.8
p1 Cal 8-1000ng SP	8	✓	1000.0	983.0	98.3

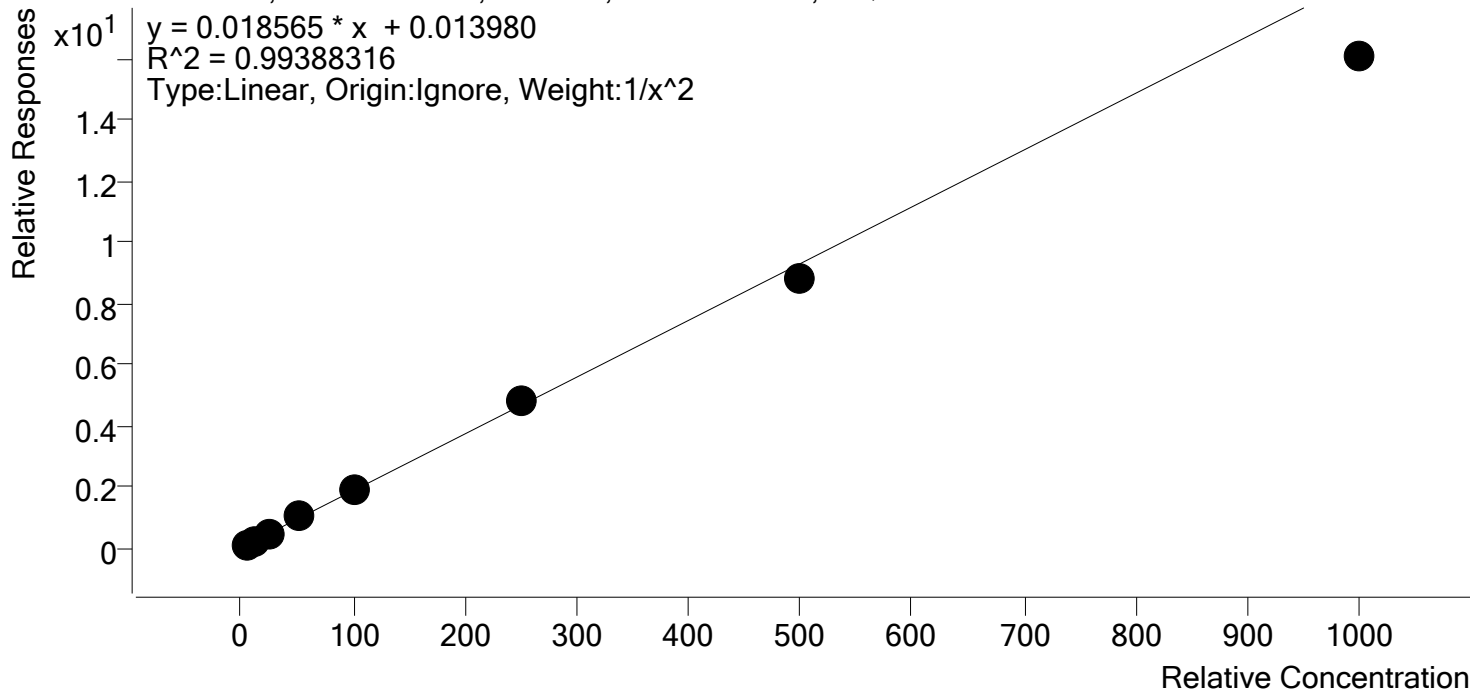
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 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 SP	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng SP	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng SP	3	✓	25.0	26.3	105.3
p1 Cal 4-50ng SP	4	✓	50.0	53.4	106.9
p1 Cal 5-100ng SP	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng SP	6	✓	250.0	259.5	103.8
p1 Cal 7-500ng SP	7	✓	500.0	476.6	95.3
p1 Cal 8-1000ng SP	8	✓	1000.0	864.7	86.5

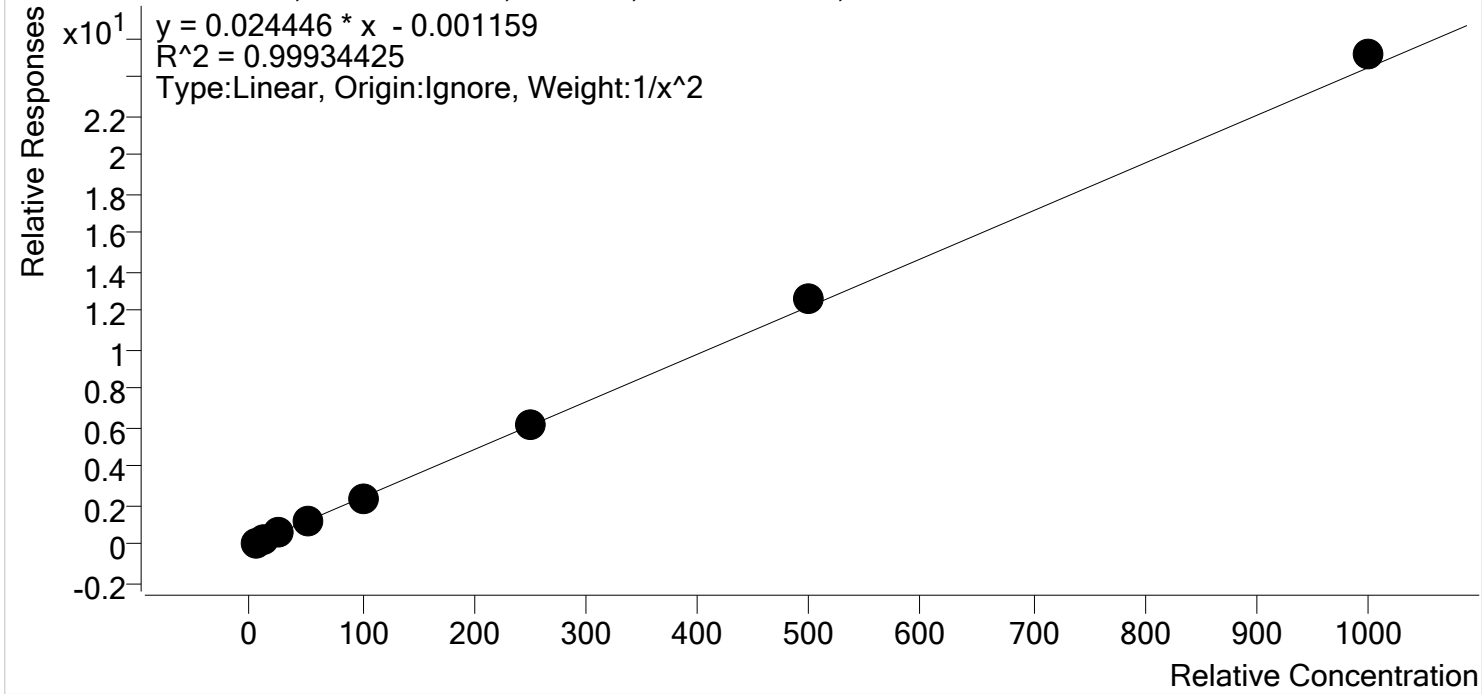
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

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



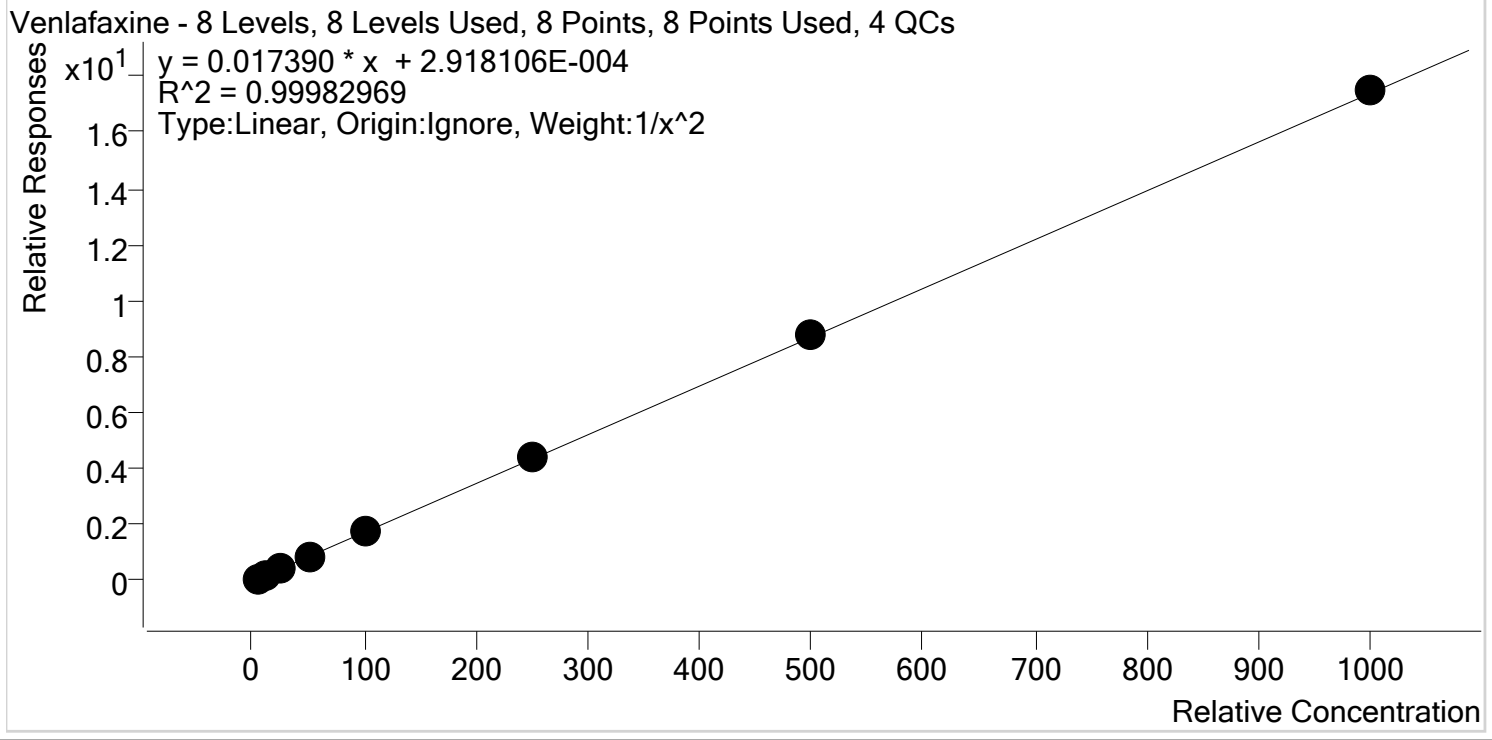
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.1	101.7
p1 Cal 2- 10ng SP	2	✓	10.0	9.8	97.8
p1 Cal 3 -25ng SP	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng SP	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng SP	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng SP	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng SP	7	✓	500.0	513.1	102.6
p1 Cal 8-1000ng SP	8	✓	1000.0	1027.5	102.8

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	5.0	101.0
p1 Cal 2- 10ng SP	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng SP	3	✓	25.0	24.5	97.8
p1 Cal 4-50ng SP	4	✓	50.0	50.3	100.5
p1 Cal 5-100ng SP	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng SP	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng SP	7	✓	500.0	502.0	100.4
p1 Cal 8-1000ng SP	8	✓	1000.0	1005.8	100.6

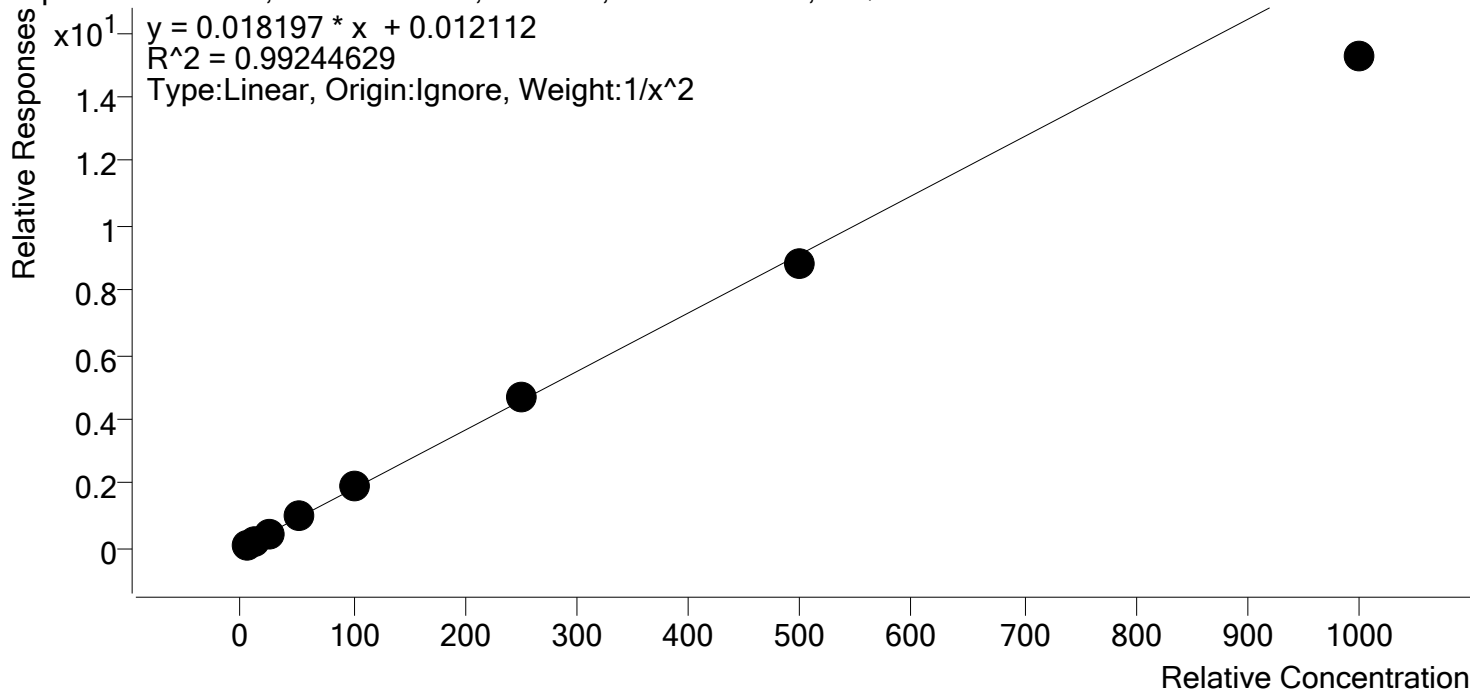
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Last Cal. Update** 12/1/2020 10:38 AM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng SP	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng SP	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng SP	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng SP	4	✓	50.0	54.2	108.3
p1 Cal 5-100ng SP	5	✓	100.0	105.5	105.5
p1 Cal 6-250ng SP	6	✓	250.0	257.6	103.1
p1 Cal 7-500ng SP	7	✓	500.0	486.0	97.2
p1 Cal 8-1000ng SP	8	✓	1000.0	836.8	83.7

# AM #28 Multi-Drug Quant. Results

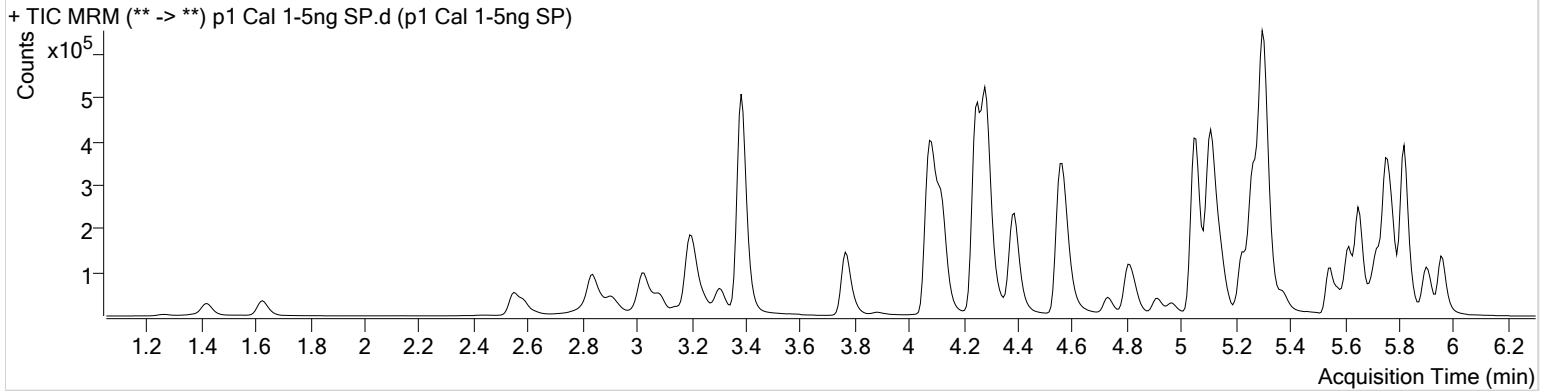


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P6-A4  
**Injection Volume** 2  
**Acq. Date-Time** 11/26/2020 6:38:28 PM  
**Sample Info.**

**Data File** p1 Cal 1-5ng SP.d  
**Sample** p1 Cal 1-5ng SP  
**Operator** Sarah Pickle  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.159	1013	134.91	66.4	94.24	30894	0.5008 ng/ml
7-aminoclonazepam	4.298	19306	2750.60	78.6	9608.66	136841	5.0579 ng/ml
a-hydroxyalprazolam	5.701	11534	503.10	59.7	343.24	41191	4.0972 ng/ml
alpha-PHP	4.969	16680	1023.32	270.0	3377.69	540664	5.1178 ng/ml
alpha-PVP	4.396	60979	10489.44	49.5	153.80	540664	4.9946 ng/ml
Alprazolam	5.778	33976	1643.78	113.2	666.09	179606	5.0504 ng/ml
Amphetamine	3.091	62975	881.13	50.0	384.87	90659	4.7126 ng/ml
Benzoylecgonine	3.912	1886	44.63	9.7	∞	12536	5.7968 ng/ml
Buprenorphine	5.971	1050	109.11	17.2	76.08	78823	0.4963 ng/ml
Bupropion	4.834	49411	1723.17	62.9	1514.60	282371	4.9493 ng/ml
Carisoprodol	5.727	22203	1556.04	50.4	46.18	222190	5.0036 ng/ml
Citalopram	5.224	33904	483.18	42.9	43282.34	312403	4.9726 ng/ml
Clonazepam	5.615	48838	8947.21	32.8	175.33	93929	4.8867 ng/ml
Cocaine	4.284	63847	4460.89	44.9	3982.01	816499	5.0483 ng/ml
Codeine	2.630	5547	153.14	102.7	3498.13	47379	5.1332 ng/ml
Cyclobenzaprine	5.625	9647	921.89	14.0	120.53	73628	5.1280 ng/ml
Dextromethorphan	5.273	17645	351.42	83.1	3488.44	159348	4.9967 ng/ml
Dextrorphan	4.124	14401	1151.11	200.7	541.33	387280	5.0859 ng/ml
Diazepam	5.963	25024	1153.38	87.4	188.86	238507	4.9680 ng/ml
Dihydrocodeine	2.582	14774	171.94	66.3	162.63	142441	4.9482 ng/ml
Diphenhydramine	5.301	69139	7369.58	32.7	461.22	1125791	5.0298 ng/ml
Doxylamine	4.575	112831	6837.22	100.1	8798.97	910059	4.9408 ng/ml
EDDP	5.265	49973	3574.72	44.1	285.49	561451	4.9906 ng/ml
Fentanyl	5.162	1779	58.54	63.8	2999.93	162997	0.5163 ng/ml
Fluoxetine	5.710	7279	105.59	7.2	54.46	57803	5.0058 ng/ml
Hydrocodone	3.054	16247	139.76	41.0	28.14	208276	4.7330 ng/ml
Hydromorphone	1.634	13328	337.17	74.8	200.01	82936	4.9700 ng/ml
Ketamine	4.112	49714	2097.83	36.3	172.03	404578	4.0700 ng/ml
Lamotrigine	4.320	4021	336.90	86.5	1183.26	404578	5.1423 ng/ml
Lorazepam	5.749	46465	∞	52.8	120.04	93929	4.7902 ng/ml
MDA	3.224	70387	369.22	17.3	463.11	223947	4.8521 ng/ml
MDMA	3.311	50852	76906.27	58.5	1038.32	82967	4.9570 ng/ml
Meprobamate	4.936	9350	800.11	25.4	253.62	90185	4.8558 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	50153	819.84	49.9	973.82	421802	5.0267 ng/ml
Methamphetamine	3.252	33902	125.11	44.7	186.90	273589	3.6469 ng/ml
Metoprolol	4.339	9295	∞	96.2	313.62	1129010	4.7661 ng/ml
Mirtazapine	4.731	65553	∞	53.2	18919.40	540664	5.0436 ng/ml
Mitragynine	5.288	6770	198.94	42.3	5452.04	421802	4.6016 ng/ml
Morphine	1.273	2146	588.06	35.9	136.42	6490	4.9306 ng/ml
Norbuprenorphine	5.004	84	9.14 <b>Low</b>	86.2	329.17	6163	0.8913 ng/ml
Nordiazepam	5.903	22953	376.67	56.5	278.79	146736	4.9564 ng/ml
Norfentanyl	4.099	9353	9315.80	36.9	114.80	836713	0.4840 ng/ml
Norhydrocodone	3.081	1146	82.48	41.5	44.52	29657	5.1800 ng/ml
Noroxycodone	2.932	17796	376.81	45.4	305.66	105036	4.9625 ng/ml
O-desmethyl-tramadol	3.390	106689	667.43	7.1	472.55	1163319	4.7505 ng/ml
Oxazepam	5.759	42541	1001.40	72.2	∞	539568	4.8270 ng/ml
Oxycodone	2.870	38511	637.24	27.4	1322.74	306962	4.9127 ng/ml
Oxymorphone	1.423	13041	125.21	43.0	1033.25	77125	4.9854 ng/ml
Phentermine	3.803	14937	95.19	2.7	26.57	384384	4.8684 ng/ml
Promethazine	5.549	25775	686.86	31.2	209.42	222601	4.9318 ng/ml
Quetiapine	5.607	32093	60339.39	58.9	∞	88023	4.8414 ng/ml
Sertraline	5.779	2578	34.36	103.7	13991.59	22452	5.0026 ng/ml
Temazepam	5.826	66454	692.22	32.1	278.27	732896	5.0087 ng/ml
Tramadol	4.259	116878	13974.15	3.6	92.19	1129010	4.8231 ng/ml
Trazodone	5.371	43384	17077.54	81.7	∞	352444	5.0828 ng/ml
Venlafaxine	5.055	83770	1179.89	35.7	154.84	951072	5.0481 ng/ml
Zolpidem	5.129	104169	74027.41	32.9	4825.87	1032033	4.8811 ng/ml



# AM #28 Multi-Drug Quant. Results

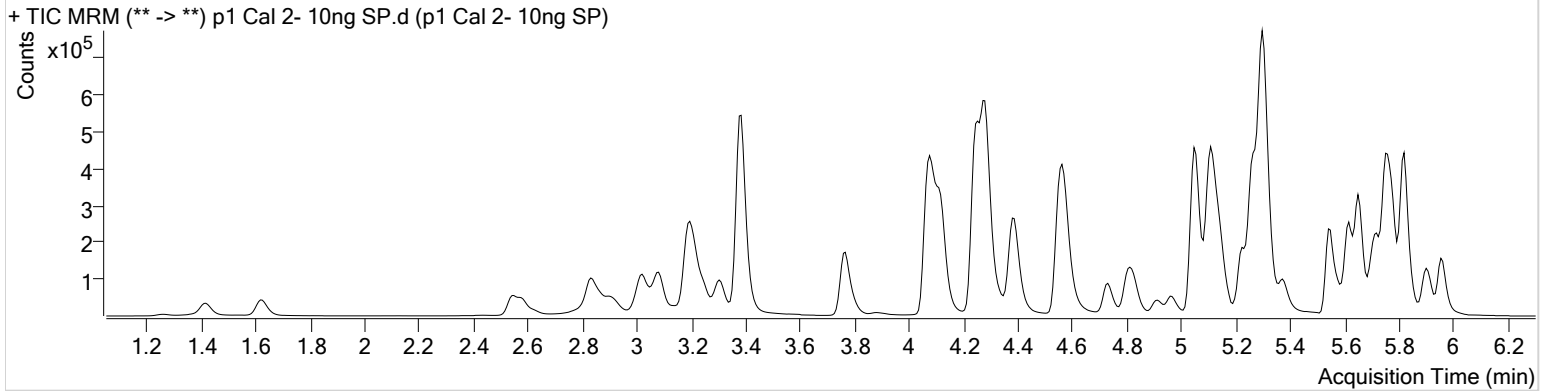


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P6-B4  
**Injection Volume** 2  
**Acq. Date-Time** 11/26/2020 6:49:14 PM  
**Sample Info.**

**Data File** p1 Cal 2- 10ng SP.d  
**Sample** p1 Cal 2- 10ng SP  
**Operator** Sarah Pickle  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	1903	1369.59	68.1	11701.84	31511	0.9748 ng/ml
7-aminoclonazepam	4.298	36371	∞	75.8	4223.38	125124	10.0435 ng/ml
a-hydroxyalprazolam	5.701	23322	420.99	59.0	534.79	39361	10.1190 ng/ml
alpha-PPH	4.969	32047	1323.05	275.1	3191.47	553481	9.5064 ng/ml
alpha-PVP	4.396	120436	646.03	50.5	9072.36	553481	9.8942 ng/ml
Alprazolam	5.778	68724	1066.16	108.6	410.26	178705	9.9731 ng/ml
Amphetamine	3.084	181938	1037.62	50.7	∞	133687	10.6191 ng/ml
Benzoylcegonine	3.905	3701	269.81	8.2	120.72	12531	10.4304 ng/ml
Buprenorphine	5.971	2214	∞	15.2	541.39	86135	0.9845 ng/ml
Bupropion	4.828	95444	13159.43	63.5	1152.69	276299	10.0904 ng/ml
Carisoprodol	5.727	42313	14562.62	54.8	322.62	221045	9.8857 ng/ml
Citalopram	5.224	74615	745.76	41.6	1704.76	341376	10.1009 ng/ml
Clonazepam	5.615	92933	752.70	32.3	383.42	92442	10.0776 ng/ml
Cocaine	4.277	125679	4362.25	44.7	939.57	840853	9.7749 ng/ml
Codeine	2.624	11225	1058.38	104.2	919.58	48554	9.8479 ng/ml
Cyclobenzaprine	5.625	36610	690.62	12.0	∞	140648	9.7513 ng/ml
Dextromethorphan	5.273	40192	175.07	82.6	839.02	184163	9.9900 ng/ml
Dextrophan	4.124	28556	5940.78	198.0	671.76	394101	9.8853 ng/ml
Diazepam	5.963	47994	3555.11	86.4	253.68	233485	10.0434 ng/ml
Dihydrocodeine	2.582	29277	4908.70	68.6	111.40	148409	9.9575 ng/ml
Diphenhydramine	5.301	146784	8057.70	33.7	∞	1222683	9.8615 ng/ml
Doxylamine	4.575	227380	16237.10	99.9	22964.22	936407	10.0860 ng/ml
EDDP	5.265	109604	958.94	43.7	3095.78	621140	10.0221 ng/ml
Fentanyl	5.162	4527	101.48	62.1	∞	215101	0.9659 ng/ml
Fluoxetine	5.710	41952	515.31	8.2	∞	173307	9.8863 ng/ml
Hydrocodone	3.054	33247	258.99	41.2	104.35	215783	10.4688 ng/ml
Hydromorphone	1.634	27811	773.19	75.1	420.03	88216	10.0116 ng/ml
Ketamine	4.112	96534	∞	36.6	798.53	416342	9.5201 ng/ml
Lamotrigine	4.320	7663	885.31	86.5	10540.84	416342	9.4707 ng/ml
Lorazepam	5.749	90337	264.51	56.0	1738.87	92442	10.3737 ng/ml
MDA	3.218	143527	5338.73	17.9	215.34	232416	10.2688 ng/ml
MDMA	3.311	101949	∞	59.9	4158.42	85607	10.0124 ng/ml
Meprobamate	4.936	17743	6067.10	27.9	239.82	89013	10.1379 ng/ml

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# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	110976	58944.63	50.4	524.28	472105	9.9147 ng/ml
Methamphetamine	3.252	96428	324.70	42.8	409.30	445491	10.2123 ng/ml
Metoprolol	4.339	19852	19509.43	90.4	519.71	1119362	10.6221 ng/ml
Mirtazapine	4.731	145138	56386.96	54.0	3728.62	553481	9.9619 ng/ml
Mitragynine	5.288	17094	1864.30	38.9	4220.04	472105	11.1334 ng/ml
Morphine	1.273	4257	1055.70	42.9	∞	6545	10.1083 ng/ml
Norbuprenorphine	4.998	155	28.59	94.1	560.24	7277	1.1846 ng/ml
Nordiazepam	5.903	45384	724.49	57.0	560.62	146531	10.0485 ng/ml
Norfentanyl	4.092	20048	167.60	36.5	∞	908689	1.0282 ng/ml
Norhydrocodone	3.081	2266	45.42	44.9	63.94	30232	9.5568 ng/ml
Noroxycodone	2.925	35933	1521.03	46.2	1929.98	106489	10.0608 ng/ml
O-desmethyl-tramadol	3.383	214774	34859.01	6.8	340.60	1182604	9.8261 ng/ml
Oxazepam	5.759	85193	1548.04	70.8	432.37	536010	10.3491 ng/ml
Oxycodone	2.863	77657	771.96	27.7	1877.54	317918	10.0740 ng/ml
Oxymorphone	1.423	26471	500.77	43.9	151.21	81917	9.9480 ng/ml
Phentermine	3.797	34396	493.70	2.6	20.26	455723	10.0859 ng/ml
Promethazine	5.549	104359	348.66	29.4	1593.47	430102	10.3295 ng/ml
Quetiapine	5.607	72344	∞	58.4	2953.55	98424	10.3473 ng/ml
Sertraline	5.779	19580	998.19	94.0	62686.43	83843	9.8893 ng/ml
Temazepam	5.826	130626	405.52	32.7	91.09	740411	9.8763 ng/ml
Tramadol	4.259	230605	10973.94	3.6	160.43	1119362	10.3436 ng/ml
Trazodone	5.371	97152	∞	81.1	59131.39	408211	9.7829 ng/ml
Venlafaxine	5.055	165018	8124.10	35.4	824.64	958845	9.8795 ng/ml
Zolpidem	5.129	207082	∞	33.8	11687.54	1054051	10.1306 ng/ml

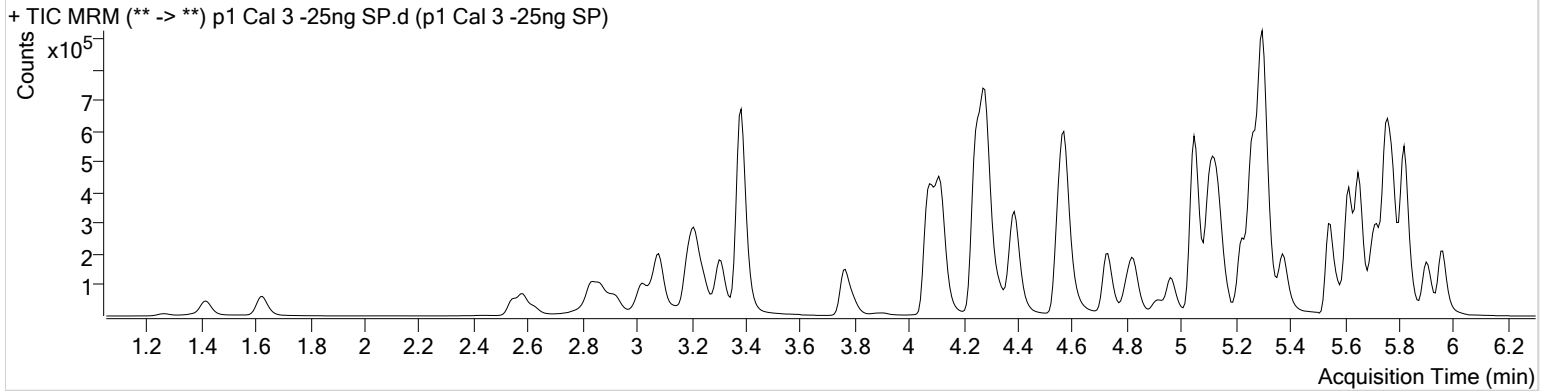
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 Cal 3 -25ng SP.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 3 -25ng SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-C4	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 6:59:50 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	4869	8892.51	68.9	1028.01	30459	2.6846 ng/ml
7-aminoclonazepam	4.298	91302	3520.16	75.8	5006.79	128950	23.9530 ng/ml
a-hydroxyalprazolam	5.701	55941	640.25	59.8	448.82	39064	26.2944 ng/ml
alpha-PHP	4.962	78664	7424.12	273.9	15013.36	511387	25.0695 ng/ml
alpha-PVP	4.396	282809	30326.83	50.2	336.28	511387	25.5740 ng/ml
Alprazolam	5.778	163069	1161.64	109.7	1454.32	173396	23.9773 ng/ml
Amphetamine	3.084	324317	3152.67	50.4	2107.34	100400	27.1900 ng/ml
Benzoylcegonine	3.905	8140	18198.93	8.2	102.35	11772	23.0966 ng/ml
Buprenorphine	5.971	5756	356.26	13.0	1222.36	86974	2.5802 ng/ml
Bupropion	4.828	216821	37885.06	64.1	5491.35	252728	25.5481 ng/ml
Carisoprodol	5.727	102366	5651.67	53.6	1562.19	214555	25.1306 ng/ml
Citalopram	5.224	186442	690.90	42.1	4765.17	347837	24.8940 ng/ml
Clonazepam	5.615	220038	474.20	33.0	639.63	88117	26.0325 ng/ml
Cocaine	4.277	301948	76815.24	44.8	11615.22	796319	25.0094 ng/ml
Codeine	2.624	26587	858.23	102.4	7808.34	47563	23.3921 ng/ml
Cyclobenzaprine	5.625	84643	2184.75	12.2	1286.92	129519	23.8151 ng/ml
Dextromethorphan	5.273	97895	∞	82.4	10995.35	181211	24.9444 ng/ml
Dextrophan	4.124	67596	2557.81	207.3	17806.96	387462	23.7635 ng/ml
Diazepam	5.963	115690	466.84	88.0	2574.62	229473	25.1030 ng/ml
Dihydrocodeine	2.582	71415	1725.32	68.4	1130.04	144794	25.8035 ng/ml
Diphenhydramine	5.301	370670	57618.02	32.6	4947.64	1215652	25.0942 ng/ml
Doxylamine	4.575	548119	20729.62	100.1	449640.99	924484	25.2422 ng/ml
EDDP	5.265	282203	488.25	42.3	6510.02	645703	25.0155 ng/ml
Fentanyl	5.162	10715	793.73	59.2	33942.71	203974	2.3633 ng/ml
Fluoxetine	5.710	102289	864.87	8.1	229.42	166056	25.6002 ng/ml
Hydrocodone	3.054	77646	242.81	41.4	774.99	208784	26.8922 ng/ml
Hydromorphone	1.628	65808	∞	75.7	407.69	83646	25.3900 ng/ml
Ketamine	4.112	223670	503.57	36.9	296.52	393319	26.3636 ng/ml
Lamotrigine	4.320	18539	1739.72	86.2	8676.98	393319	24.1559 ng/ml
Lorazepam	5.749	214026	2602.60	54.9	376.76	88117	27.1704 ng/ml
MDA	3.218	335225	7678.99	17.9	2071.64	223076	26.0806 ng/ml
MDMA	3.311	245435	∞	59.2	7446.10	82428	25.6396 ng/ml
Meprobamate	4.930	43897	1396.62	27.3	95.33	88999	26.3676 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	281227	17962.94	49.9	2176.45	474885	24.9423 ng/ml
Methamphetamine	3.252	139040	284.33	42.5	188.70	312673	26.4052 ng/ml
Metoprolol	4.339	46558	252977.73	95.1	2156.24	1076532	26.3461 ng/ml
Mirtazapine	4.731	344918	48436.00	53.2	∞	511387	24.3436 ng/ml
Mitragynine	5.288	40328	2860.30	39.9	1332.06	474885	26.9190 ng/ml
Morphine	1.266	10400	415.71	42.1	1404.85	6495	25.5058 ng/ml
Norbuprenorphine	4.998	438	1616.48	85.3	1047.32	7354	2.6396 ng/ml
Nordiazepam	5.903	108655	1099.92	55.9	594.83	141222	25.3171 ng/ml
Norfentanyl	4.092	47247	6751.40	37.3	344.78	873298	2.6302 ng/ml
Norhydrocodone	3.075	5570	80.67	41.8	273.67	28557	24.0317 ng/ml
Noroxycodone	2.925	87392	2136.76	45.4	645.88	102852	25.6052 ng/ml
O-desmethyl-tramadol	3.383	521827	2513.58	6.9	331.29	1163063	24.9034 ng/ml
Oxazepam	5.759	197335	4269.33	71.9	∞	510475	26.0426 ng/ml
Oxycodone	2.863	185959	1060.09	28.5	1233.96	305948	25.8667 ng/ml
Oxymorphone	1.417	62478	279.76	43.9	358.69	77183	25.6147 ng/ml
Phentermine	3.797	74890	∞	2.4	58.76	392216	26.5395 ng/ml
Promethazine	5.549	239260	2500.44	29.6	428.11	411656	24.7365 ng/ml
Quetiapine	5.607	173766	∞	58.3	∞	96749	26.1181 ng/ml
Sertraline	5.779	46536	1416.99	92.8	7376.64	76961	25.1654 ng/ml
Temazepam	5.826	317791	6789.81	32.2	486.57	709462	25.2884 ng/ml
Tramadol	4.259	541008	54470.68	3.6	254.02	1076532	26.3159 ng/ml
Trazodone	5.371	234774	∞	79.9	∞	395353	24.3391 ng/ml
Venlafaxine	5.048	405426	1058.52	35.6	600.25	952379	24.4621 ng/ml
Zolpidem	5.129	496548	115373.67	33.1	25500.00	1029664	25.8350 ng/ml

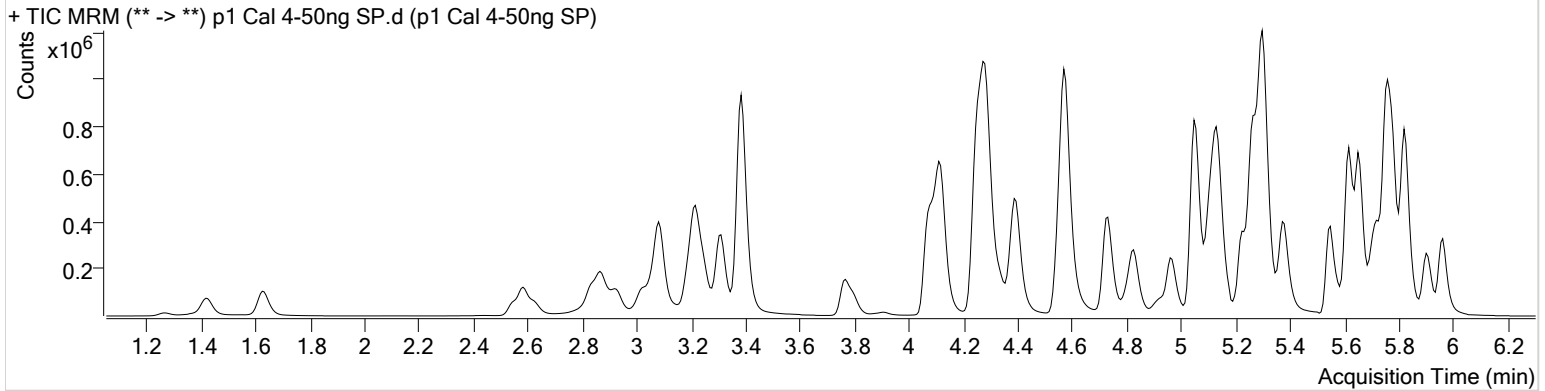
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 Cal 4-50ng SP.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 4-50ng SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-D4	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 7:10:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	9500	27433.37	71.8	4487.39	33417	4.8227 ng/ml
7-aminoclonazepam	4.298	185530	13860.04	78.5	4840.64	130827	47.6186 ng/ml
a-hydroxyalprazolam	5.701	115519	658.78	58.0	1799.55	41157	52.7841 ng/ml
alpha-PHP	4.969	159995	17357.09	274.5	36938.65	521229	49.9141 ng/ml
alpha-PVP	4.396	570923	67546.74	49.8	3797.41	521229	50.9252 ng/ml
Alprazolam	5.778	340661	2680.11	108.1	948.61	175224	49.2635 ng/ml
Amphetamine	3.084	662172	5603.41	50.4	4771.24	104120	54.9320 ng/ml
Benzoylecgonine	3.905	18193	4075.47	8.0	636.73	13022	45.6582 ng/ml
Buprenorphine	5.971	11767	1226.89	14.6	5047.49	86894	5.3100 ng/ml
Bupropion	4.828	373151	29576.57	62.6	4878.17	218611	51.1556 ng/ml
Carisoprodol	5.727	210282	1909.09	54.3	1160.31	214664	51.9437 ng/ml
Citalopram	5.224	375361	691.78	42.1	7881.97	344967	50.6234 ng/ml
Clonazepam	5.615	455866	30300.77	32.9	945.34	88648	54.3242 ng/ml
Cocaine	4.277	629937	105051.12	45.1	29410.93	814856	51.1316 ng/ml
Codeine	2.624	55077	1356.40	106.6	8004.30	48509	47.2077 ng/ml
Cyclobenzaprine	5.625	153491	7807.22	12.2	246.49	115001	48.1777 ng/ml
Dextromethorphan	5.273	195498	7052.60	82.8	4458.53	178309	50.7761 ng/ml
Dextrophan	4.124	143921	4201.91	199.9	3175.56	396695	49.3893 ng/ml
Diazepam	5.963	242098	4746.41	86.8	8787.00	236575	51.2880 ng/ml
Dihydrocodeine	2.582	150279	10930.82	68.6	374.17	149844	53.0944 ng/ml
Diphenhydramine	5.301	744364	∞	33.6	35037.56	1221826	50.1690 ng/ml
Doxylamine	4.575	1166250	∞	101.5	100519.37	961298	52.0986 ng/ml
EDDP	5.265	576310	10007.16	43.2	615.67	657417	50.3073 ng/ml
Fentanyl	5.162	22478	78.14	59.6	32183.62	210690	4.7670 ng/ml
Fluoxetine	5.710	136055	1399.44	8.0	104.62	115225	49.3350 ng/ml
Hydrocodone	3.054	163249	∞	41.9	185.57	215139	56.0648 ng/ml
Hydromorphone	1.634	136035	523.80	73.7	401.06	85946	51.3556 ng/ml
Ketamine	4.112	448705	544.03	36.8	360.74	392612	55.0785 ng/ml
Lamotrigine	4.320	39679	∞	85.8	16750.01	392612	51.7236 ng/ml
Lorazepam	5.749	423915	∞	56.0	793.42	88648	54.3979 ng/ml
MDA	3.218	694621	20403.18	17.7	3016.20	227913	53.6785 ng/ml
MDMA	3.311	509941	85317.42	59.8	7620.67	86673	51.0564 ng/ml
Meprobamate	4.936	90427	376.43	26.3	557.99	89480	54.9366 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	565830	42012.45	50.1	732.89	478719	49.7587 ng/ml
Methamphetamine	3.252	247037	565.61	43.2	1598.24	288401	55.6293 ng/ml
Metoprolol	4.339	98328	92075.78	93.4	2653.61	1139717	52.8633 ng/ml
Mirtazapine	4.731	720169	18090.69	53.5	10342.82	521229	49.0149 ng/ml
Mitragynine	5.288	80756	6795.36	40.8	2042.06	478719	54.0646 ng/ml
Morphine	1.273	21494	814.54	41.5	157.32	6695	51.5656 ng/ml
Norbuprenorphine	4.998	904	1339.64	86.5	1569.14	7497	4.9670 ng/ml
Nordiazepam	5.903	229078	6750.77	55.3	3886.32	147029	51.5133 ng/ml
Norfentanyl	4.092	99267	∞	36.8	1162.08	914445	5.3531 ng/ml
Norhydrocodone	3.081	10986	172.53	44.2	193.05	28064	47.7056 ng/ml
Noroxycodone	2.925	176675	4772.73	46.3	766.74	106851	49.9967 ng/ml
O-desmethyl-tramadol	3.383	1112934	81348.04	6.9	3897.51	1208180	51.5798 ng/ml
Oxazepam	5.759	405121	40927.88	72.0	4978.47	511157	54.0324 ng/ml
Oxycodone	2.863	391560	3657.14	28.3	1493.38	319004	52.7841 ng/ml
Oxymorphone	1.423	126230	1124.09	43.1	751.81	80410	50.1084 ng/ml
Phentermine	3.803	149438	∞	2.3	148.01	390331	53.8862 ng/ml
Promethazine	5.549	424140	1132.18	29.8	771.54	363516	49.6531 ng/ml
Quetiapine	5.607	356130	49708.02	58.0	∞	98699	53.0542 ng/ml
Sertraline	5.779	61750	1113.82	89.9	6950.67	49095	52.0476 ng/ml
Temazepam	5.826	668991	11288.74	32.1	696.75	741376	51.0839 ng/ml
Tramadol	4.259	1146731	55381.19	3.6	502.18	1139717	53.4418 ng/ml
Trazodone	5.371	511778	∞	79.1	∞	417383	50.2054 ng/ml
Venlafaxine	5.048	856357	682.35	35.3	680.47	979326	50.2657 ng/ml
Zolpidem	5.129	1070708	139403.74	33.3	115845.64	1073352	54.1517 ng/ml

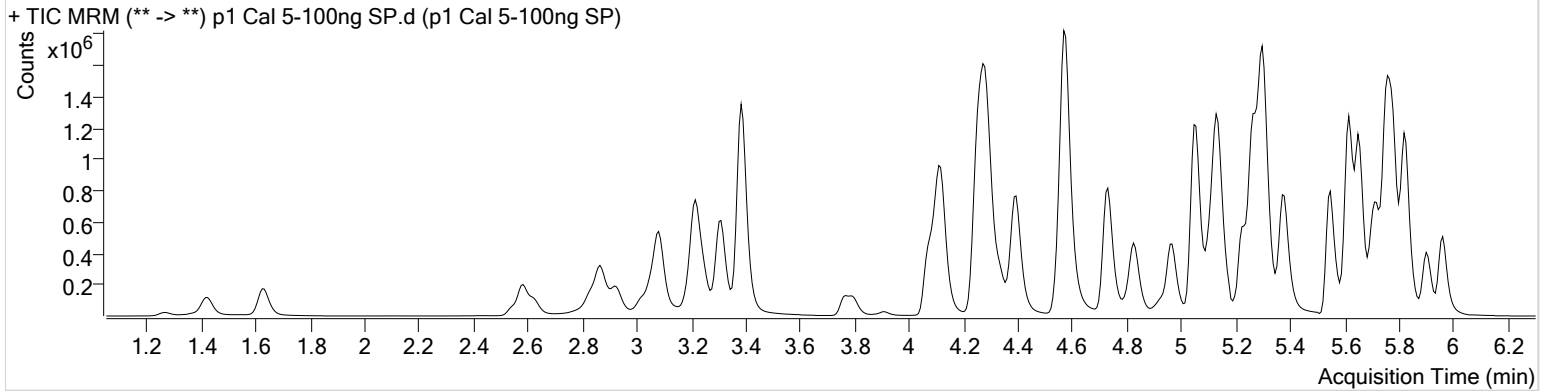
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 Cal 5-100ng SP.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-E4	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 7:21:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	19118	84208.50	71.9	22186.71	32700	9.9850 ng/ml
7-aminoclonazepam	4.298	367505	∞	77.7	7940.69	126901	96.8715 ng/ml
a-hydroxyalprazolam	5.701	208309	953.26	59.5	3112.11	37411	105.9898 ng/ml
alpha-PHP	4.969	305699	2864.74	273.2	6028.31	491181	101.0883 ng/ml
alpha-PVP	4.396	1061412	83295.04	50.2	26859.28	491181	100.7377 ng/ml
Alprazolam	5.778	616777	21288.60	107.3	3693.92	155427	100.2574 ng/ml
Amphetamine	3.084	879831	10544.01	51.3	∞	74149	103.7411 ng/ml
Benzoylecgonine	3.905	37451	4172.84	8.0	∞	12809	94.4765 ng/ml
Buprenorphine	5.971	22695	5909.35	15.0	∞	83864	10.6407 ng/ml
Bupropion	4.828	669001	15884.43	63.6	6706.45	203100	99.0239 ng/ml
Carisoprodol	5.727	378968	27332.59	55.0	1866.69	199365	101.1051 ng/ml
Citalopram	5.224	750873	1994.35	42.2	664.17	347356	100.6546 ng/ml
Clonazepam	5.615	797251	23976.85	33.8	23273.60	80726	104.9495 ng/ml
Cocaine	4.277	1168621	54934.61	45.3	32326.45	785974	98.4690 ng/ml
Codeine	2.624	108942	458.62	102.2	9640.96	46390	97.3252 ng/ml
Cyclobenzaprine	5.625	385890	910.51	12.3	922.00	140132	98.9317 ng/ml
Dextromethorphan	5.273	385143	590.84	82.5	26910.94	177771	100.4776 ng/ml
Dextrorphan	4.124	270044	3020.55	202.7	7199.76	373483	98.4040 ng/ml
Diazepam	5.963	454181	11933.01	87.2	5277.54	224410	101.7493 ng/ml
Dihydrocodeine	2.582	283867	1503.76	68.9	∞	148193	101.9596 ng/ml
Diphenhydramine	5.301	1467438	194898.57	33.4	384.85	1208890	99.9919 ng/ml
Doxylamine	4.575	2304125	62853.14	99.5	178486.03	964461	103.0058 ng/ml
EDDP	5.265	1093920	589.54	43.4	37272.48	628009	100.0910 ng/ml
Fentanyl	5.162	46999	2685.28	60.7	∞	215954	9.6911 ng/ml
Fluoxetine	5.710	472553	23868.94	8.2	∞	192251	103.0090 ng/ml
Hydrocodone	3.054	316652	∞	39.9	328.36	215789	109.4934 ng/ml
Hydromorphone	1.634	251892	∞	77.8	1150.40	82914	98.8205 ng/ml
Ketamine	4.112	829243	∞	37.2	7570.80	376626	108.0326 ng/ml
Lamotrigine	4.320	75704	11240.45	83.6	5120.16	376626	102.8102 ng/ml
Lorazepam	5.749	716274	3288.35	56.0	7179.60	80726	101.7323 ng/ml
MDA	3.218	1270745	34171.65	17.2	5806.74	217108	103.7882 ng/ml
MDMA	3.311	968412	91365.16	60.1	33563.97	82837	101.8480 ng/ml
Meprobamate	4.936	166340	8026.59	26.5	170.79	84969	107.2360 ng/ml

# AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	1148997	812.26	50.2	39707.39	483916	99.9330 ng/ml
Methamphetamine	3.252	289109	226.80	44.0	1338.88	184728	105.8961 ng/ml
Metoprolol	4.339	183617	1000476.09	94.2	8571.16	1110623	101.5847 ng/ml
Mirtazapine	4.731	1404608	51705.97	53.5	46305.43	491181	100.5758 ng/ml
Mitragynine	5.288	160523	7241.13	40.5	10173.90	483916	106.8918 ng/ml
Morphine	1.273	41652	679.31	41.1	282.89	6511	103.1714 ng/ml
Norbuprenorphine	5.004	1847	104.61	75.6	2656.25	7674	9.5459 ng/ml
Nordiazepam	5.903	426408	11618.42	55.5	9487.15	138236	102.2211 ng/ml
Norfentanyl	4.092	188027	11189.50	36.3	357.64	893086	10.4524 ng/ml
Norhydrocodone	3.075	19603	395.22	44.6	91.29	25283	93.9769 ng/ml
Noroxycodone	2.925	332921	2154.65	46.2	2461.62	100550	100.2953 ng/ml
O-desmethyl-tramadol	3.383	2135155	118390.85	6.9	540.48	1177624	101.9368 ng/ml
Oxazepam	5.759	698046	∞	71.8	∞	463456	103.2313 ng/ml
Oxycodone	2.863	752653	3636.36	28.2	26642.38	313217	103.8506 ng/ml
Oxymorphone	1.423	235171	∞	43.5	∞	75038	100.4973 ng/ml
Phentermine	3.797	233504	∞	2.4	132.77	313601	105.4335 ng/ml
Promethazine	5.549	1119120	42134.38	29.2	319.40	474558	100.3523 ng/ml
Quetiapine	5.607	709308	159603.05	58.6	78347.44	103307	101.4773 ng/ml
Sertraline	5.779	221862	2402.75	92.9	12994.26	91670	99.8948 ng/ml
Temazepam	5.826	1256654	16411.18	32.0	6213.85	711503	100.1189 ng/ml
Tramadol	4.259	2126150	∞	3.7	∞	1110623	102.3617 ng/ml
Trazodone	5.377	1025783	∞	80.6	∞	429935	97.6465 ng/ml
Venlafaxine	5.055	1665607	80277.80	34.7	7653.42	959479	99.8052 ng/ml
Zolpidem	5.129	2046238	82833.58	32.3	∞	1059171	105.4987 ng/ml



# AM #28 Multi-Drug Quant. Results

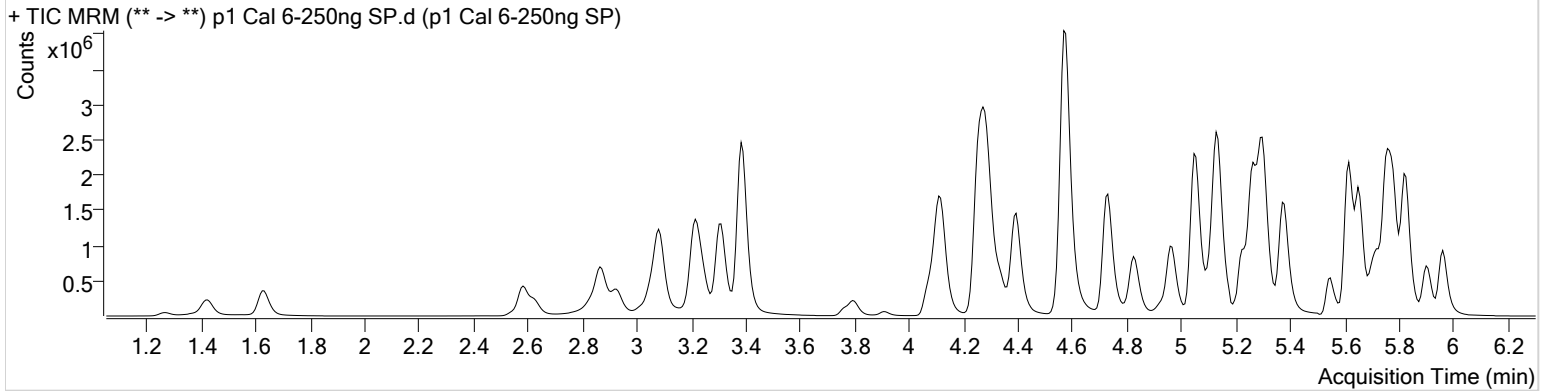


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P6-F4  
**Injection Volume** 2  
**Acq. Date-Time** 11/26/2020 7:31:43 PM  
**Sample Info.**

**Data File** p1 Cal 6-250ng SP.d  
**Sample** p1 Cal 6-250ng SP  
**Operator** Sarah Pickle  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	46163	1016.05	73.3	912.70	32018	24.7167 ng/ml
7-aminoclonazepam	4.298	791715	15885.27	77.2	10020.21	104277	253.3907 ng/ml
a-hydroxyalprazolam	5.701	459419	3032.48	60.8	1697.59	33886	259.9377 ng/ml
alpha-PHP	4.969	667334	36904.70	272.4	∞	430786	251.4432 ng/ml
alpha-PVP	4.396	2275241	34599.49	50.2	18534.51	430786	246.6163 ng/ml
Alprazolam	5.778	1366059	6001.28	106.3	1437.21	133764	257.5672 ng/ml
Amphetamine	3.084	2112046	21790.30	51.4	11636.58	77929	238.8074 ng/ml
Benzoylcegonine	3.905	95676	15021.89	7.9	203.00	12417	247.3630 ng/ml
Buprenorphine	5.971	39191	4888.68	14.8	4426.36	61256	25.1963 ng/ml
Bupropion	4.828	1263191	87116.67	63.3	57581.86	156497	243.1303 ng/ml
Carisoprodol	5.727	797850	∞	53.8	∞	171575	247.8115 ng/ml
Citalopram	5.224	1438703	24307.14	41.8	852.60	269613	248.5937 ng/ml
Clonazepam	5.615	1635814	48442.30	33.1	11428.58	68131	256.1091 ng/ml
Cocaine	4.277	2621933	215189.57	44.6	141995.60	694761	250.1430 ng/ml
Codeine	2.624	241611	∞	105.7	27826.94	40096	249.2656 ng/ml
Cyclobenzaprine	5.625	300027	15336.08	12.5	721.92	43426	247.5444 ng/ml
Dextromethorphan	5.273	615630	329.43	81.1	31929.89	114989	248.5124 ng/ml
Dextrophan	4.124	574869	66227.70	200.6	34772.94	312393	250.4072 ng/ml
Diazepam	5.963	987658	11594.35	86.9	7017.64	196179	253.5851 ng/ml
Dihydrocodeine	2.582	656185	33930.69	69.7	645.73	141831	247.1189 ng/ml
Diphenhydramine	5.301	2853050	∞	33.4	23803.79	947407	248.1098 ng/ml
Doxylamine	4.575	5483845	194125.35	96.8	285269.98	931568	254.4365 ng/ml
EDDP	5.265	2415166	1981.09	42.8	70670.90	554677	250.3929 ng/ml
Fentanyl	5.162	71462	27434.54	59.6	133.24	124283	25.5519 ng/ml
Fluoxetine	5.703	162718	586.61	8.4	13777.41	28046	243.5275 ng/ml
Hydrocodone	3.054	694527	299.57	41.6	∞	209485	248.8309 ng/ml
Hydromorphone	1.634	597050	∞	74.5	∞	75978	256.0437 ng/ml
Ketamine	4.112	1779047	2540.01	36.8	1474.05	337101	261.8455 ng/ml
Lamotrigine	4.320	164113	∞	83.9	28019.90	337101	248.9173 ng/ml
Lorazepam	5.749	1201538	∞	55.5	4266.64	68131	203.1234 ng/ml
MDA	3.218	2612585	91316.82	17.0	16388.84	190795	243.8328 ng/ml
MDMA	3.311	2192172	∞	59.6	70372.50	76012	251.8445 ng/ml
Meprobamate	4.936	336165	751.49	26.5	4768.32	76880	240.5916 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	2094339	4720.07	50.5	2155.16	357256	246.6989 ng/ml
Methamphetamine	3.252	544704	576.48	44.3	971.16	145769	259.9796 ng/ml
Metoprolol	4.339	398688	∞	94.9	∞	1000184	245.3600 ng/ml
Mirtazapine	4.731	3007300	12887.93	53.7	84526.09	430786	244.3514 ng/ml
Mitragynine	5.288	239966	32048.66	39.9	30856.79	357256	217.0598 ng/ml
Morphine	1.266	92726	2362.83	41.1	443.83	5879	254.9736 ng/ml
Norbuprenorphine	4.998	3519	2162.22	78.7	10039.15	5613	24.2702 ng/ml
Nordiazepam	5.903	904093	∞	56.1	2561.79	119765	250.5079 ng/ml
Norfentanyl	4.092	419764	1514.98	37.2	1405.92	850118	24.6150 ng/ml
Norhydrocodone	3.075	41681	2551.93	43.6	189.57	20183	249.4456 ng/ml
Noroxycodone	2.925	726798	1586.28	45.2	652.05	88857	248.0321 ng/ml
O-desmethyl-tramadol	3.383	4972774	∞	7.0	898.59	1096104	255.7096 ng/ml
Oxazepam	5.759	1265732	39919.44	73.8	6525.31	346873	250.9620 ng/ml
Oxycodone	2.863	1800977	5065.06	28.0	3061.50	310540	251.3987 ng/ml
Oxymorphone	1.423	532309	1803.03	44.9	∞	67897	252.0943 ng/ml
Phentermine	3.803	496739	∞	2.2	136.21	275384	256.3695 ng/ml
Promethazine	5.549	859875	21670.42	29.1	1125.54	148800	245.9013 ng/ml
Quetiapine	5.607	1534021	305810.86	59.0	∞	92755	245.2447 ng/ml
Sertraline	5.779	45879	2680.53	94.3	∞	7629	247.8145 ng/ml
Temazepam	5.826	2774588	28754.43	32.5	15806.02	626319	251.3278 ng/ml
Tramadol	4.259	4832860	145203.03	3.7	11595.89	1000184	259.5133 ng/ml
Trazodone	5.371	2192526	∞	81.7	95777.31	359761	249.3482 ng/ml
Venlafaxine	5.048	3855340	78644.59	34.9	14152.47	877266	252.6922 ng/ml
Zolpidem	5.129	4748462	170404.57	32.5	66380.88	1010199	257.6405 ng/ml

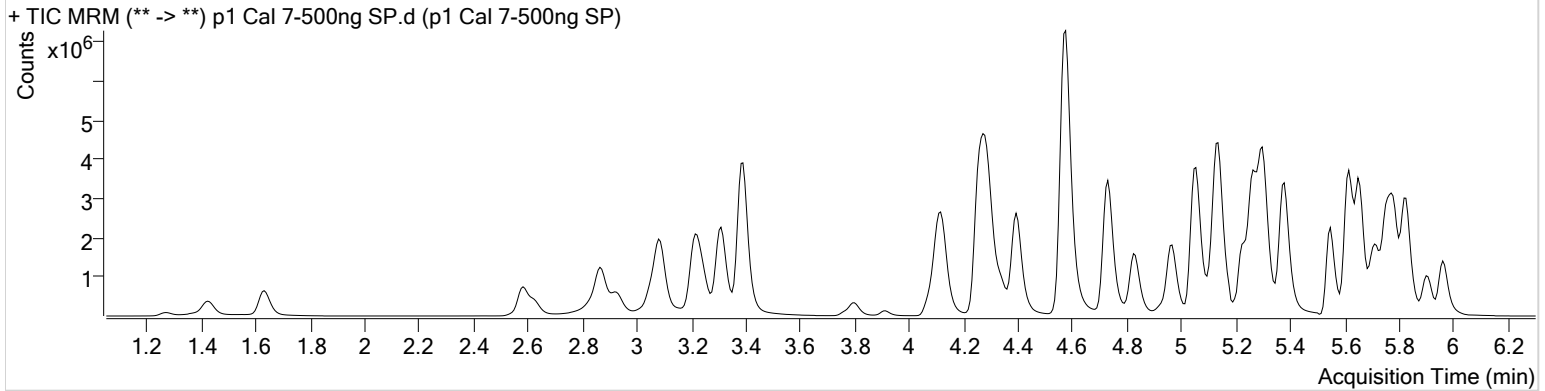
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 Cal 7-500ng SP.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 7-500ng SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-G4	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 7:42:17 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	94239	3435.21	71.3	2016.01	32106	50.3845 ng/ml
7-aminoclonazepam	4.298	1222781	51621.44	76.5	15403.46	78210	521.4125 ng/ml
a-hydroxyalprazolam	5.701	708280	3282.36	61.4	2103.46	28310	480.7778 ng/ml
alpha-PHP	4.969	1258104	123275.67	272.5	103271.45	405689	503.2507 ng/ml
alpha-PVP	4.396	4294528	53588.91	51.0	96670.97	405689	494.5647 ng/ml
Alprazolam	5.778	2168751	8087.53	107.1	1339.92	107247	509.7355 ng/ml
Amphetamine	3.091	3535165	69603.91	51.6	20752.83	76474	408.3463 ng/ml
Benzoylcegonine	3.912	213961	29594.24	7.8	12955.73	13358	513.1785 ng/ml
Buprenorphine	5.971	79290	4371.57	14.0	24691.10	64117	48.7286 ng/ml
Bupropion	4.828	2456261	99341.54	62.6	18994.12	148121	499.8463 ng/ml
Carisoprodol	5.727	1194556	1769.07	54.7	13470.55	130857	486.7936 ng/ml
Citalopram	5.224	2974035	91828.97	42.5	48573.39	282668	490.2341 ng/ml
Clonazepam	5.622	2053862	152273.78	33.3	15042.09	45272	484.5299 ng/ml
Cocaine	4.284	4539839	192442.28	44.7	85880.52	602647	499.4576 ng/ml
Codeine	2.624	433769	14118.19	106.5	36684.60	35040	511.7675 ng/ml
Cyclobenzaprine	5.625	1214433	60739.22	12.0	1556.59	83980	517.6449 ng/ml
Dextromethorphan	5.273	1216169	24924.00	82.0	135991.89	113140	499.1035 ng/ml
Dextrophan	4.124	998715	9639.92	199.0	36933.80	266980	509.0005 ng/ml
Diazepam	5.963	1651396	∞	87.5	∞	167845	495.8886 ng/ml
Dihydrocodeine	2.582	1226126	32105.24	68.6	65208.24	143701	456.2589 ng/ml
Diphenhydramine	5.301	5527572	∞	33.9	47965.69	914725	497.8995 ng/ml
Doxylamine	4.575	10561423	611520.06	97.3	95461.61	909651	502.2446 ng/ml
EDDP	5.265	4394356	249447.48	42.7	61296.72	504616	500.9131 ng/ml
Fentanyl	5.162	196567	18862.65	60.3	18204.31	157066	55.5772 ng/ml
Fluoxetine	5.710	1232455	246231.10	8.0	100211.83	101633	509.3197 ng/ml
Hydrocodone	3.054	1244381	∞	43.2	337.84	210781	443.9828 ng/ml
Hydromorphone	1.634	1124558	∞	75.4	∞	73971	495.6067 ng/ml
Ketamine	4.112	3196729	∞	36.4	14581.10	335029	475.0898 ng/ml
Lamotrigine	4.320	259807	3198.36	84.3	47572.70	335029	396.4591 ng/ml
Lorazepam	5.749	1414116	∞	54.9	1246.35	45272	360.4926 ng/ml
MDA	3.218	4200663	18121.26	16.6	14460.16	171663	436.3411 ng/ml
MDMA	3.311	3996639	376686.10	59.3	90714.10	69947	499.3609 ng/ml
Meprobamate	4.936	530177	479.44	26.1	20240.35	70664	413.4448 ng/ml

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# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	4499800	426101.46	49.4	74602.03	375296	504.5425 ng/ml
Methamphetamine	3.252	948135	411.12	44.0	4132.59	132261	503.4736 ng/ml
Metoprolol	4.339	669218	14025.81	94.0	37255.32	940800	438.0873 ng/ml
Mirtazapine	4.731	6141659	9574.28	53.5	141414.72	405689	528.9468 ng/ml
Mitragynine	5.288	505142	∞	39.2	4464.07	375296	435.5611 ng/ml
Morphine	1.273	172065	1024.16	42.0	3922.72	5807	479.3795 ng/ml
Norbuprenorphine	5.004	8179	∞	72.7	142.34	6103	51.4610 ng/ml
Nordiazepam	5.903	1446488	∞	55.2	18253.41	98303	488.5230 ng/ml
Norfentanyl	4.092	737220	61270.26	37.2	2290.82	864522	42.5649 ng/ml
Norhydrocodone	3.075	78578	91.97	42.0	194.68	16410	577.6950 ng/ml
Noroxycodone	2.925	1186677	∞	45.3	1673.49	76272	471.9522 ng/ml
O-desmethyl-tramadol	3.390	9077604	72995.15	7.0	3177.78	1011876	506.0606 ng/ml
Oxazepam	5.759	1651319	∞	70.9	∞	235226	483.3790 ng/ml
Oxycodone	2.863	3471442	20691.72	28.0	22899.97	310722	484.7942 ng/ml
Oxymorphone	1.423	998831	∞	41.9	1331.76	62689	512.8113 ng/ml
Phentermine	3.803	860015	7958.54	2.2	∞	259118	472.2831 ng/ml
Promethazine	5.549	3944342	146532.34	29.0	1490.72	331356	506.5276 ng/ml
Quetiapine	5.607	2974677	145887.15	58.6	150394.02	98628	447.7213 ng/ml
Sertraline	5.779	448760	5873.37	92.4	49771.64	37301	495.4703 ng/ml
Temazepam	5.826	4632608	1657.73	32.1	21666.06	532222	493.9550 ng/ml
Tramadol	4.259	8337887	435130.82	3.7	10185.43	940800	476.6137 ng/ml
Trazodone	5.377	4812795	∞	80.6	∞	383766	513.0547 ng/ml
Venlafaxine	5.055	7142668	205594.60	34.8	3214.53	818092	502.0338 ng/ml
Zolpidem	5.135	8745169	307581.30	32.1	168675.18	987507	485.9844 ng/ml

# AM #28 Multi-Drug Quant. Results

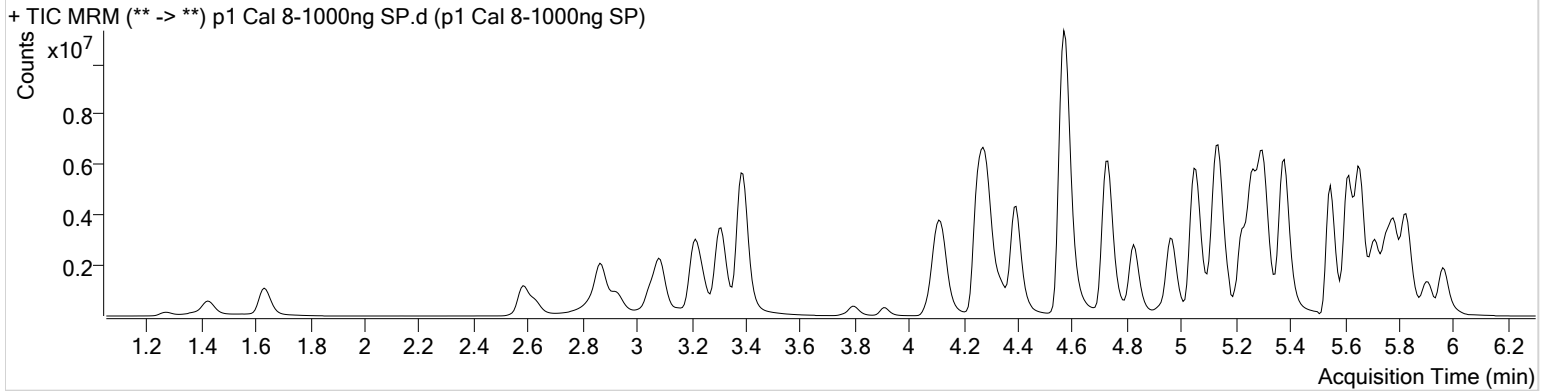


**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/1/2020 10:38:27 AM

**Instrument** Instrument 1  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P6-H4  
**Injection Volume** 2  
**Acq. Date-Time** 11/26/2020 7:52:54 PM  
**Sample Info.**

**Data File** p1 Cal 8-1000ng SP.d  
**Sample** p1 Cal 8-1000ng SP  
**Operator** Sarah Pickle  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.153	191738	50916.21	71.6	31130.10	33255	99.0305 ng/ml
7-aminoclonazepam	4.298	1506650	11899.64	77.0	24684.54	47908	1048.4699 ng/ml
a-hydroxyalprazolam	5.701	921342	569.47	59.8	709.04	20053	883.9868 ng/ml
alpha-PHP	4.969	2248656	13392.46	271.6	96629.00	364294	1001.5753 ng/ml
alpha-PVP	4.396	7695651	295621.08	51.2	46587.49	364294	987.2240 ng/ml
Alprazolam	5.785	3151158	∞	104.9	7481.46	79735	995.9216 ng/ml
Amphetamine	3.091	3971710	30070.03	51.0	23251.49	49237	713.6343 ng/ml
Benzoylecgonine	3.905	565654	34839.36	7.8	5521.47	14661	1234.6733 ng/ml
Buprenorphine	5.978	154973	10291.06	13.9	398839.06	69226	88.2339 ng/ml
Bupropion	4.828	4394934	415032.82	62.8	117789.16	133369	993.6153 ng/ml
Carisoprodol	5.734	1541401	∞	54.6	74074.42	82993	990.7342 ng/ml
Citalopram	5.224	5763205	220417.84	41.8	147571.65	267011	1005.7882 ng/ml
Clonazepam	5.622	1824391	68725.33	33.2	189233.05	23096	844.1250 ng/ml
Cocaine	4.277	7341315	53966.31	45.0	∞	484058	1005.6748 ng/ml
Codeine	2.624	740409	∞	99.8	∞	27447	1114.8831 ng/ml
Cyclobenzaprine	5.625	2561313	1385.71	11.9	870.14	85783	1068.3316 ng/ml
Dextromethorphan	5.273	1958451	60741.48	81.5	53202.53	91742	991.3361 ng/ml
Dextrorphan	4.124	1633090	41327.47	202.1	23422.00	211160	1052.3045 ng/ml
Diazepam	5.963	2527880	10696.03	87.4	∞	134359	948.5614 ng/ml
Dihydrocodeine	2.582	2085857	53260.03	69.6	26374.45	147599	756.0776 ng/ml
Diphenhydramine	5.301	9618594	2029750.78	34.4	31509.52	782701	1012.5743 ng/ml
Doxylamine	4.568	17946709	268652.87	97.3	403310.57	863614	899.2812 ng/ml
EDDP	5.265	7461641	134127.76	42.3	44933.98	434208	988.5997 ng/ml
Fentanyl	5.162	476146	29960.43	59.0	3572147.85	162364	130.1899 ng/ml
Fluoxetine	5.710	2902254	100848.74	8.3	38910.45	124842	976.6654 ng/ml
Hydrocodone	3.047	2303585	∞	42.4	∞	208646	831.3097 ng/ml
Hydromorphone	1.634	2082247	∞	72.1	805.91	70835	958.5451 ng/ml
Ketamine	4.105	5120218	89647.68	36.9	31573.64	315843	808.6309 ng/ml
Lamotrigine	4.320	361179	29852.51	84.7	3736.13	315843	584.6031 ng/ml
Lorazepam	5.749	1432933	∞	51.7	7447.87	23096	716.9311 ng/ml
MDA	3.218	6663392	187885.21	16.4	11640.69	147246	807.5771 ng/ml
MDMA	3.311	6581899	153376.69	59.1	131454.36	61475	936.0539 ng/ml
Meprobamate	4.930	735758	330.00	26.2	35524.72	64159	632.3919 ng/ml

# AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methadone	5.656	8710430	117619.93	50.5	9089.34	361072	1015.1122 ng/ml
Methamphetamine	3.245	869909	3388.41	43.6	2087.31	62986	974.7568 ng/ml
Metoprolol	4.339	995016	130811.99	95.5	∞	822586	745.1865 ng/ml
Mirtazapine	4.731	11836566	349512.71	54.8	136096.18	364294	1134.3214 ng/ml
Mitragynine	5.288	889275	∞	40.6	4828.79	361072	797.4851 ng/ml
Morphine	1.273	322342	8599.65	43.3	4180.95	5544	941.1262 ng/ml
Norbuprenorphine	5.004	16931	135.56	75.9	292.19	6504	99.6164 ng/ml
Nordiazepam	5.909	2065275	1059.95	56.0	18076.97	71470	959.6166 ng/ml
Norfentanyl	4.085	1215499	1008.47	37.0	20157.44	879787	69.0081 ng/ml
Norhydrocodone	3.075	174381	468.85	42.3	∞	14942	1407.2583 ng/ml
Noroxycodone	2.925	1869217	7456.36	45.4	∞	54621	1038.2890 ng/ml
O-desmethyl-tramadol	3.390	15177022	47915.34	7.2	48463.64	869329	985.2332 ng/ml
Oxazepam	5.759	1610999	3546.59	70.1	1344.11	126930	874.4126 ng/ml
Oxycodone	2.863	6467250	1429.62	28.2	1120.61	309899	906.0284 ng/ml
Oxymorphone	1.423	1749071	443.02	43.9	401.53	59760	942.3871 ng/ml
Phentermine	3.803	991748	∞	2.2	201.70	165343	854.0528 ng/ml
Promethazine	5.549	9756340	4581.89	30.2	118681.89	415991	997.9855 ng/ml
Quetiapine	5.607	5204283	215779.23	60.1	∞	113024	683.8345 ng/ml
Sertraline	5.779	1023860	14641.77	93.7	63197.76	42935	981.8292 ng/ml
Temazepam	5.826	6904052	∞	31.5	25441.46	398629	982.9933 ng/ml
Tramadol	4.252	13216309	∞	3.8	11893.64	822586	864.6577 ng/ml
Trazodone	5.377	9332621	477603.53	82.5	∞	371562	1027.5067 ng/ml
Venlafaxine	5.048	12307973	202112.40	34.9	83973.60	703681	1005.7554 ng/ml
Zolpidem	5.135	14578260	382393.90	33.2	82994.67	956631	836.7666 ng/ml

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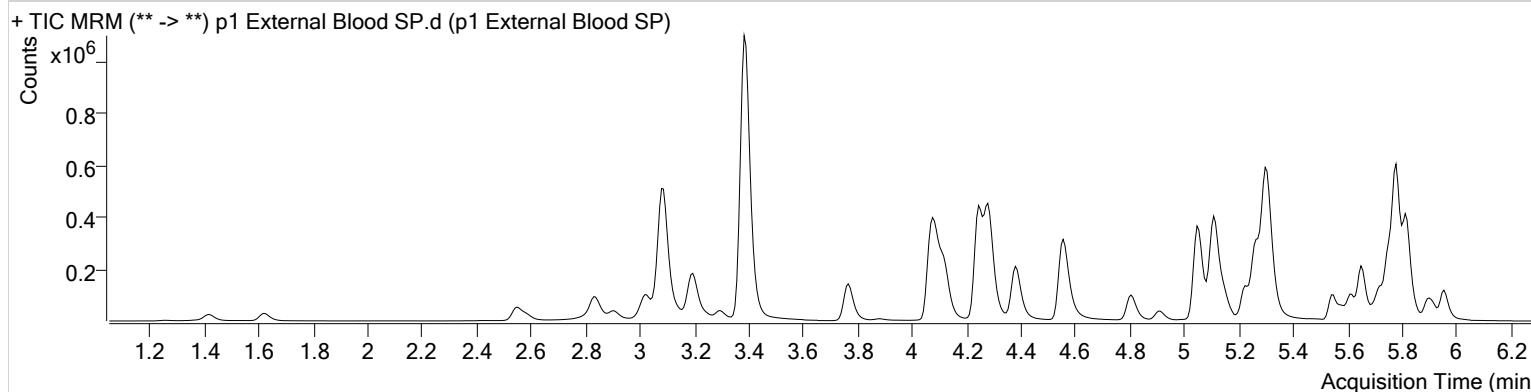


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\112520 AM 27 28 SJ SP\QuantResults\AM 28 SP.batch.bin  
**Calibration Last Update** 12/7/2020 3:16:14 PM

<b>Instrument</b>	Instrument 1	<b>Data File</b>	p1 External Blood SP.d
<b>Type</b>	Sample	<b>Sample</b>	p1 External Blood SP
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P6-G5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/26/2020 10:00:10 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.778	497502	1786.08	109.3	2213.72	163118	77.1222 ng/ml
Amphetamine	3.084	961764	283.69	51.3	7152.20	97192	86.2753 ng/ml
O-desmethyl-tramadol	3.390	1624966	154120.80	6.9	720.45	1131309	80.6666 ng/ml