

**REVIEWED**

By Sarah Pickle at 1:47 pm, Aug 21, 2020

8/21/2020

**Worklist: 4447**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-1579	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1580	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1584	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1588	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1595	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1616	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-2742	4	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-2853	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-1784	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2164	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2167	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2190	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2192	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2193	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2196	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2197	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2198	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-2375	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 8/19/20

Analyst: Anne Nord

Plate lot#: 200513 (part IDP-111-2)

Plate Expiration: 11/13/20

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

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

**Blank Blood Lot:** 20A52255

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

**LCMS-QQQ ID:** 69679

## Pre-Analytic:

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

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134 or 250µL hydrolyzed urine** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 66819*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

## 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? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

## COMMENTS:

Limited curve ranges – ~~Buprenorphine 2.5-100~~, Cyclobenzaprine 10-<sup>1000</sup>100 (Qualitative only), Fluoxetine 10-1000 (Qualitative only), Lamotrigine 5-500, Lorazepam 5-500, Metoprolol 5-500, Mirtazapine 10-1000

Not evaluated: Sertraline, Fentanyl, Norbuprenorphine, ~~Buprenorphine~~

10 ng calibrator dropped for methamphetamine curve, did not meet accuracy criteria. Methamphetamine evaluated qualitative only.

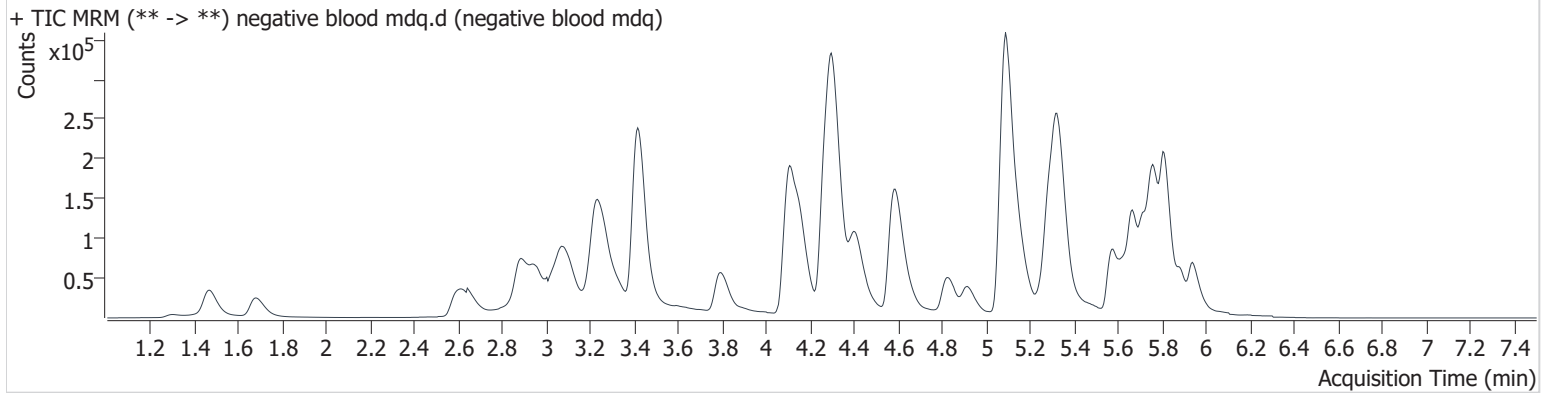
GA

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood mdq.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/20/2020 12:05:18 AM		
<b>Sample Info.</b>			

## Sample Chromatogram



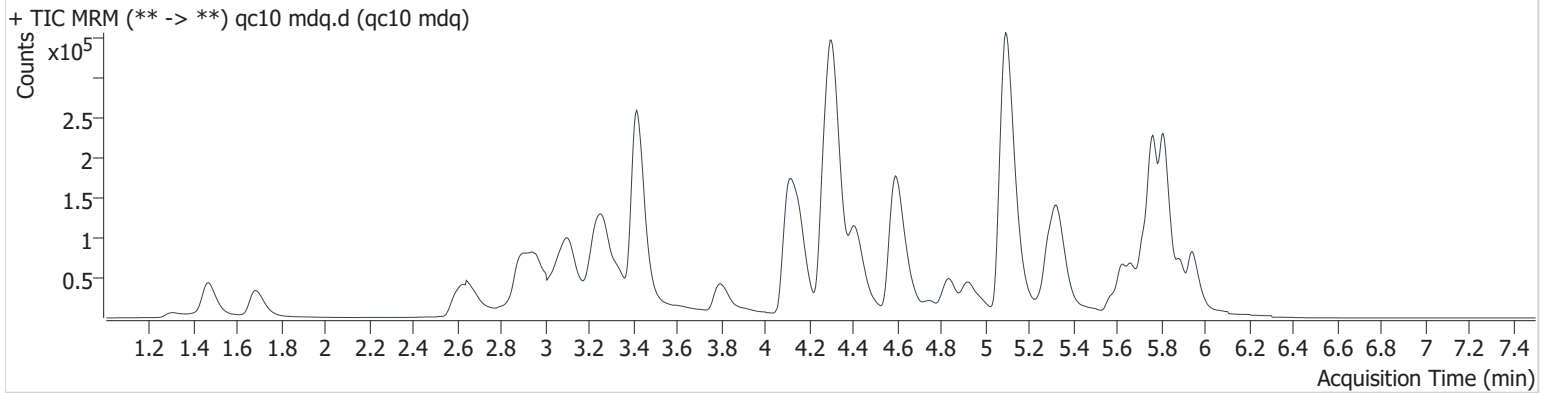


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
Calibration Last Update 8/21/2020 9:08:13 AM

Instrument 69679 Data File qc10 mdq.d  
Type QC Sample qc10 mdq  
Acq. Method MDQP1 5-27-20.m Operator Anne Nord  
Sample Position P2-A6 Comment  
Injection Volume 2  
Acq. Date-Time 8/20/2020 12:16:08 AM  
Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.192	1631	6645.6	76.5	4579.6	38518	1.007 ng/ml
7-aminoclonazepam	4.313	40782	6711.8	97.0	1383.4	168339	9.868 ng/ml
a-hydroxyalprazolam	5.707	7446	11723.3	68.4	19350.2	42820	9.557 ng/ml
alpha-PHP	4.990	31837	442.5	39.2	278.2	297236	9.352 ng/ml
alpha-PVP	4.423	69510	4506.3	48.9	4637.6	297236	9.959 ng/ml
Alprazolam	5.776	46336	702.7	118.5	7908.8	180928	10.208 ng/ml
Amphetamine	3.115	76887	69.0	57.2	887.5	156701	9.027 ng/ml
Benzoylcegonine	3.915	3287	377.2	7.6	887.6	8173	12.328 ng/ml
Bupropion	4.852	40653	1808.9	64.8	2379.7	134845	10.329 ng/ml
Carisoprodol	5.726	34136	3066.7	71.1	689.9	170130	10.098 ng/ml
Citalopram	5.266	12816	61.2	42.1	21618.5	58941	9.961 ng/ml
Clonazepam	5.625	45450	1916.2	31.2	53188.3	73902	9.572 ng/ml
Cocaine	4.312	77134	6574.9	42.3	2263.5	554341	10.298 ng/ml
Codeine	2.685	9195	23693.5	117.0	2484.0	55445	8.953 ng/ml
Cyclobenzaprine	5.643	8121	27327.6	10.6	42.4	21931	11.874 ng/ml
Dextromethorphan	5.305	8666	11915.6	83.7	697.7	36933	10.800 ng/ml
Dextrorphan	4.166	15462	2982.8	216.3	2009.3	190127	9.718 ng/ml
Diazepam	5.947	33940	4151.3	87.0	4743.3	159284	10.565 ng/ml
Dihydrocodeine	2.638	27492	3238.7	54.8	578.3	149432	10.208 ng/ml
Diphenhydramine	5.331	47234	5096.0	26.2	2207.6	220139	10.624 ng/ml
Doxylamine	4.604	150313	6304.2	99.6	14881.8	630749	10.012 ng/ml
EDDP	5.299	14003	592.9	237.6	558.6	171314	9.319 ng/ml
Fentanyl	5.178	888	39.6	75.4	1358.7	35377	1.225 ng/ml not evaluated
Fluoxetine	5.719	8074	104548.4	6.2	510.5	18278	12.035 ng/ml
Hydrocodone	3.102	38738	5748.9	32.1	994.6	220523	10.155 ng/ml
Hydromorphone	1.692	32577	7213.6	69.3	14660.8	100311	9.873 ng/ml
Ketamine	4.132	69939	6924.1	37.8	248.6	300112	10.130 ng/ml
Lamotrigine	4.360	6500	549.2	87.2	7970.8	300112	10.508 ng/ml
Lorazepam	5.749	39086	2089.3	52.5	338.5	73902	10.245 ng/ml
MDA	3.256	66896	170.8	23.4	131.9	200010	10.468 ng/ml
MDMA	3.343	47306	2789.8	87.0	1740.9	41792	10.516 ng/ml
Meprobamate	4.940	36606	332.6	27.1	165.9	120186	10.012 ng/ml
Methadone	5.672	22999	1082.8	57.6	3215.2	95924	11.637 ng/ml

# AM #28 Multi-Drug Quant. Results

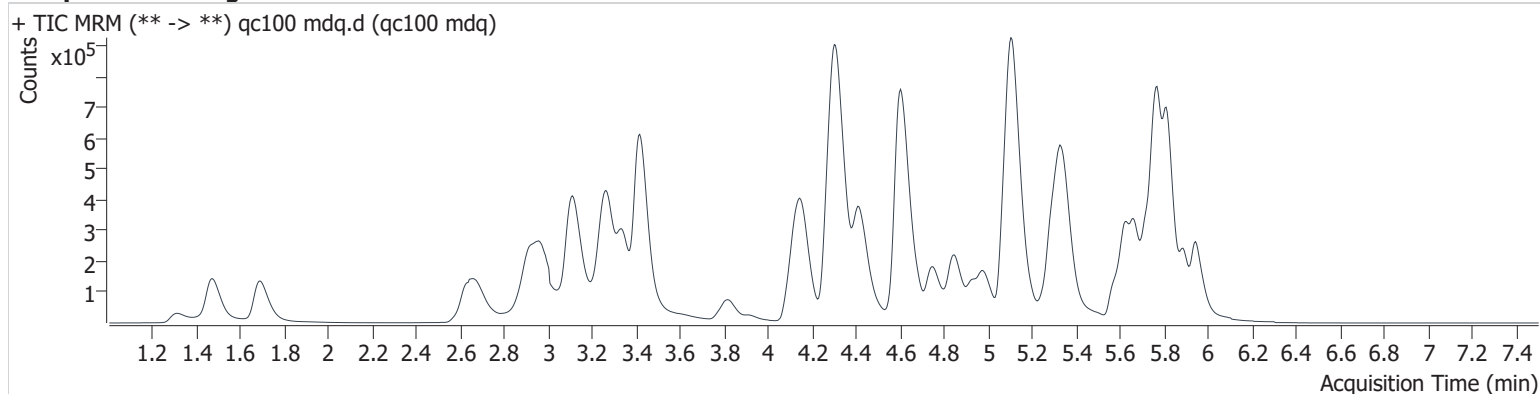
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Metoprolol	4.359	10609	578.0	95.0	524.1	300112	9.498 ng/ml
Mirtazapine	4.748	33815	483.8	48.4	855.5	95924	10.633 ng/ml
Mitragynine	5.296	3014	2689.1	30.7	629.9	18278	12.632 ng/ml
Morphine	1.311	4250	166.0	24.7	233.5	6089	9.034 ng/ml
Nordiazepam	5.891	30608	1508.2	61.0	21029.2	106983	10.299 ng/ml
Norfentanyl	4.122	1272	90.7	292.4	45.6	452050	1.067 ng/ml
Norhydrocodone	3.117	1687	104.7	15.0	∞	57655	10.258 ng/ml
Noroxycodone	2.974	35184	413.4	38.8	291.6	119689	10.637 ng/ml
O-desmethyl-tramadol	3.420	165045	3954.1	5.9	619.1	887920	10.123 ng/ml
Oxazepam	5.761	56074	2421.3	80.5	242.3	317858	9.718 ng/ml
Oxycodone	2.917	80619	754.3	27.9	701.8	343841	10.241 ng/ml
Oxymorphone	1.469	45712	1333.1	43.9	2199.2	167582	10.266 ng/ml
Phentermine	3.826	10778	31.2	9.7	14.5	153168	10.071 ng/ml
Promethazine	5.570	11264	115.4	34.3	48.1	48863	11.392 ng/ml
Quetiapine	5.603	17721	16788.7	53.7	719.5	20182	10.952 ng/ml
Temazepam	5.818	95484	1515.9	30.5	147.6	460446	9.726 ng/ml
Tramadol	4.283	175876	1231.2	3.3	54.7	796855	10.056 ng/ml
Trazodone	5.349	21111	1070.7	76.7	207.9	98541	9.397 ng/ml
Venlafaxine	5.081	77249	5084.0	40.4	295.6	502431	10.585 ng/ml
Zolpidem	5.112	178359	925.8	33.4	470.4	869597	10.003 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc100 mdq.d
<b>Type</b>	QC	<b>Sample</b>	qc100 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/20/2020 12:26:55 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.197	15636	869.6	78.3	3147.9	36793	10.294 ng/ml
7-aminoclonazepam	4.313	370139	5317.9	93.4	1042.6	144216	105.254 ng/ml
a-hydroxyalprazolam	5.702	71285	1876.0	58.2	∞	37169	104.824 ng/ml
alpha-PHP	4.985	385835	9416.0	38.9	3219.8	293613	104.101 ng/ml
alpha-PVP	4.418	740712	14555.3	48.1	7670.0	293613	103.785 ng/ml
Alprazolam	5.776	418528	5180.2	115.3	3855.3	157621	101.276 ng/ml
Amphetamine	3.115	946966	6444.6	44.6	2310.2	157100	116.033 ng/ml
Benzoylcegonine	3.915	31047	1292.6	7.5	96.8	8998	106.464 ng/ml
<del>Buprenorphine</del>	<del>5.851</del>	<del>2929</del>	<del>94.1</del>	<del>18.9</del>	<del>833.4</del>	<del>9947</del>	<del>11.061 ng/ml</del> NE
Bupropion	4.847	475237	4899.5	63.1	1147.2	153743	105.233 ng/ml
Carisoprodol	5.726	301431	9576.9	71.4	2061.0	143574	104.403 ng/ml
Citalopram	5.266	200518	992.3	39.2	94584.3	84540	107.117 ng/ml
Clonazepam	5.625	416067	105485.0	31.5	4417.9	64793	104.534 ng/ml
Cocaine	4.312	758772	22331.5	44.2	1328.6	529972	106.110 ng/ml
Codeine	2.685	93983	2092.4	113.8	2272.6	47070	105.596 ng/ml
Cyclobenzaprine	5.643	160335	147036.3	8.2	82.0	52658	102.147 ng/ml
Dextromethorphan	5.305	133461	8969.5	82.7	106356.7	62826	105.017 ng/ml
Dextrorphan	4.161	161489	85799.6	215.6	396311.7	196618	99.640 ng/ml
Diazepam	5.947	313268	7287.5	88.2	136817.0	145791	103.824 ng/ml
Dihydrocodeine	2.628	268721	5937.4	58.8	3288.8	141664	106.259 ng/ml
Diphenhydramine	5.331	668797	8853.6	29.6	2411.3	331331	106.182 ng/ml
Doxylamine	4.599	1636603	26179.9	100.0	77139.1	656646	101.040 ng/ml
EDDP	5.294	199927	112776.3	227.2	4546.4	226039	100.626 ng/ml
Fluoxetine	5.719	137331	171939.4	6.9	8310.8	49085	106.331 ng/ml
Hydrocodone	3.102	360656	833.4	33.7	871.0	206350	102.649 ng/ml
Hydromorphone	1.687	328894	8741.5	73.0	2708.4	93613	102.654 ng/ml
Ketamine	4.132	675585	12129.9	39.3	361.5	282590	108.348 ng/ml
Lamotrigine	4.360	62759	1051.8	85.6	1433.5	282590	113.850 ng/ml
Lorazepam	5.749	314695	5270.5	51.4	725.8	64793	106.248 ng/ml
MDA	3.251	701937	876.7	23.4	2040.1	204009	109.173 ng/ml
MDMA	3.343	512162	303.2	83.6	957.3	45295	107.088 ng/ml
Meprobamate	4.940	299718	10841.8	30.2	2387.5	107926	111.437 ng/ml
Methadone	5.667	334314	16071.5	56.3	6815.7	167823	100.248 ng/ml

qc100 mdq

NE = not evaluated

Generated at 9:52 AM on 8/20/2020



# AM #28 Multi-Drug Quant. Results

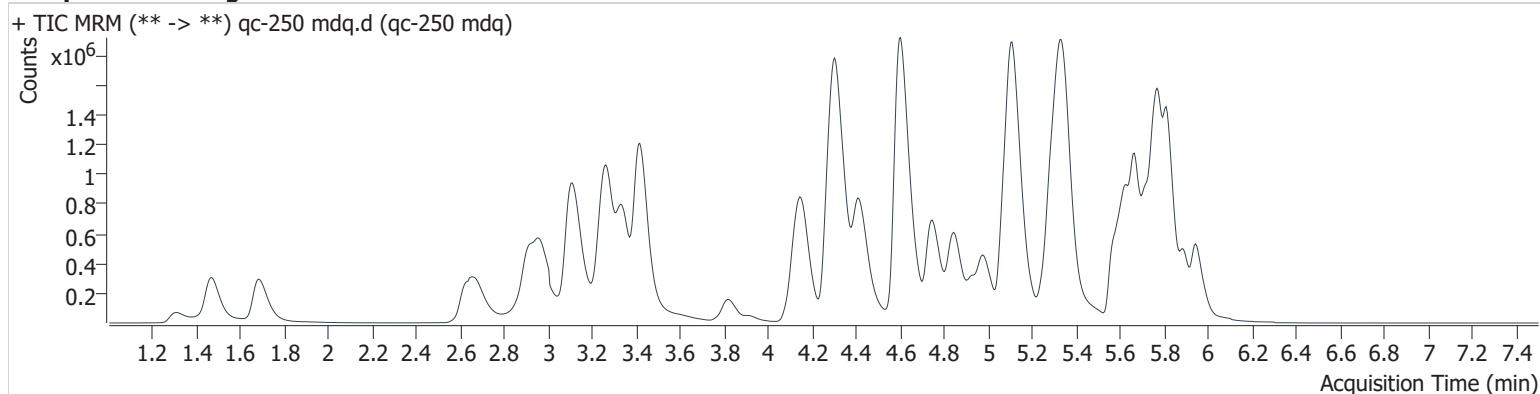
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.278	418898	∞	44.0	∞	188108	107.283 ng/ml
Metoprolol	4.359	106842	6333.5	94.3	97.0	282590	108.555 ng/ml
Mirtazapine	4.748	484304	4427.7	48.0	25976.4	167823	99.162 ng/ml
Mitragynine	5.296	45581	27780.6	30.4	72.8	49085	84.940 ng/ml
Morphine	1.311	42024	2017.7	22.4	659.8	5181	109.211 ng/ml
Nordiazepam	5.891	282631	164538.3	62.5	78365.9	96002	107.268 ng/ml
Norfentanyl	4.117	12071	352.8	306.4	971.1	445800	10.221 ng/ml
Norhydrocodone	3.122	14415	1108.4	15.8	93.1	45965	109.094 ng/ml
Noroxycodone	2.969	347835	1515.6	40.1	2535.9	112600	106.976 ng/ml
O-desmethyl-tramadol	3.420	1569632	65731.0	6.4	2797.5	821809	103.202 ng/ml
Oxazepam	5.756	490866	9022.3	74.6	638.5	263957	104.668 ng/ml
Oxycodone	2.912	787623	5123.3	29.2	3050.4	324335	105.464 ng/ml
Oxymorphone	1.469	430943	3954.7	44.0	2816.4	154838	107.389 ng/ml
Phentermine	3.826	120007	189.8	8.8	189.0	158665	107.719 ng/ml
Promethazine	5.575	257902	3461.4	35.9	1279.0	122762	102.002 ng/ml
Quetiapine	5.603	230297	127762.5	56.0	92088.6	26437	110.329 ng/ml
Temazepam	5.818	902477	3931.6	31.4	1130.8	412470	102.617 ng/ml
Tramadol	4.283	1629047	66897.6	3.3	513.6	768719	107.141 ng/ml
Trazodone	5.354	355732	2022.1	73.6	716.6	154626	98.367 ng/ml
Venlafaxine	5.076	826388	51504.3	42.1	267.2	493134	108.651 ng/ml
Zolpidem	5.112	1749693	6058.7	34.5	5066.1	848471	96.824 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc-250 mdq.d
<b>Type</b>	QC	<b>Sample</b>	qc-250 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/20/2020 12:37:43 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.197	39454	1384.9	75.2	866.6	37413	25.575 ng/ml
7-aminoclonazepam	4.313	797863	18750.1	92.9	9093.8	129726	252.329 ng/ml
a-hydroxyalprazolam	5.702	150710	3400.9	56.8	601.9	31835	258.666 ng/ml
alpha-PHP	4.985	1126678	15591.3	39.2	4694.9	317290	279.696 ng/ml
alpha-PVP	4.418	1919489	3420.8	48.7	7616.2	317290	248.358 ng/ml
Alprazolam	5.776	942097	834.7	114.8	7325.4	141944	252.419 ng/ml
Amphetamine	3.110	2371312	9700.5	46.3	5865.6	172868	264.639 ng/ml
Benzoylcegonine	3.915	75125	2586.5	6.8	334.0	9230	251.267 ng/ml
<del>Buprenorphine</del>	<del>5.851</del>	<del>14263</del>	<del>407.3</del>	<del>14.7</del>	<del>898.1</del>	<del>20206</del>	<del>26.034 ng/ml</del> not evaluated
Bupropion	4.847	1402723	54070.1	64.1	7077.1	194349	245.616 ng/ml
Carisoprodol	5.726	657646	20158.8	69.5	2216.9	133402	244.972 ng/ml
Citalopram	5.256	848565	972.7	39.0	182197.0	154805	247.348 ng/ml
Clonazepam	5.625	870473	69973.4	30.8	173432.7	56638	250.867 ng/ml
Cocaine	4.307	1834120	44864.6	44.1	8732.2	532961	255.076 ng/ml
Codeine	2.680	213705	4503.6	120.0	5204.6	46616	242.191 ng/ml
Cyclobenzaprine	5.643	788748	826987.6	8.8	905.1	104556	254.002 ng/ml
Dextromethorphan	5.305	581742	108520.9	78.6	45343.1	116551	247.964 ng/ml
Dextrorphan	4.161	453922	1266.8	218.4	31918.4	224443	245.592 ng/ml
Diazepam	5.947	745066	3767.5	86.2	28314.4	141349	254.258 ng/ml
Dihydrocodeine	2.628	652412	4988.8	59.3	7754.3	145454	251.406 ng/ml
Diphenhydramine	5.331	2764222	11190.4	29.8	1679.7	578983	252.158 ng/ml
Doxylamine	4.599	4575657	17667.7	97.6	94585.3	755295	245.038 ng/ml
EDDP	5.289	752670	357280.4	226.8	891.8	353277	242.358 ng/ml
Fluoxetine	5.719	626018	3720.9	7.5	7296.0	94268	260.133 ng/ml
Hydrocodone	3.102	848867	6362.6	38.6	1342.6	206546	241.616 ng/ml
Hydromorphone	1.682	781009	4971.7	72.8	8886.8	97051	234.588 ng/ml
Ketamine	4.132	1584270	12669.3	39.7	2140.7	290976	247.366 ng/ml
Lamotrigine	4.355	143389	5003.6	87.5	4731.3	290976	253.425 ng/ml
Lorazepam	5.749	641121	8481.0	51.1	1254.2	56638	249.600 ng/ml
MDA	3.251	2003028	28139.5	23.4	862.9	232989	273.022 ng/ml
MDMA	3.343	1459834	73911.3	82.8	490.5	54270	255.073 ng/ml
Meprobamate	4.935	678840	24508.2	29.8	4126.4	109253	252.402 ng/ml
Methadone	5.667	1587489	6540.9	53.3	42906.6	309459	258.922 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.278	1111716	6687.2	42.0	∞	221212	260.258 ng/ml
Metoprolol	4.359	243582	774.6	98.0	6661.2	290976	241.229 ng/ml
Mirtazapine	4.743	1991515	70217.7	47.1	4585.6	309459	223.212 ng/ml
Mitragynine	5.296	232940	491.1	31.5	75893.1	94268	230.976 ng/ml
Morphine	1.306	105968	807.8	23.1	2487.3	5048	283.277 ng/ml
Nordiazepam	5.891	653617	44987.4	61.0	4096.1	92331	258.129 ng/ml
Norfentanyl	4.117	31975	2283.7	292.6	287.3	474759	25.414 ng/ml
Norhydrocodone	3.128	30604	993.4	17.3	24.4	43102	246.881 ng/ml
Noroxycodone	2.969	828734	6316.0	40.5	1348.2	104262	274.465 ng/ml
O-desmethyl-tramadol	3.414	3809059	211579.2	6.5	16068.8	821647	250.366 ng/ml
Oxazepam	5.756	1064726	6395.8	72.9	2262.7	241016	248.963 ng/ml
Oxycodone	2.912	1935723	11905.6	29.0	5492.7	332615	252.654 ng/ml
Oxymorphone	1.464	1040574	5542.1	43.7	7099.3	157740	254.928 ng/ml
Phentermine	3.821	343714	1008.3	8.4	141.9	183081	267.294 ng/ml
Promethazine	5.570	1267678	243537.6	36.8	2540.2	245385	250.504 ng/ml
Quetiapine	5.603	842376	31616.7	55.3	416513.3	42873	249.080 ng/ml
Temazepam	5.818	2137403	29079.9	31.1	4405.2	405368	247.295 ng/ml
Tramadol	4.278	3941391	6083.2	3.4	1035.0	807031	248.521 ng/ml
Trazodone	5.349	1413183	6082.6	74.4	974909.0	237362	254.149 ng/ml
Venlafaxine	5.076	2261413	115424.4	41.4	13317.5	534608	273.223 ng/ml
Zolpidem	5.112	4377940	28733.6	32.5	9971.7	833620	245.940 ng/ml

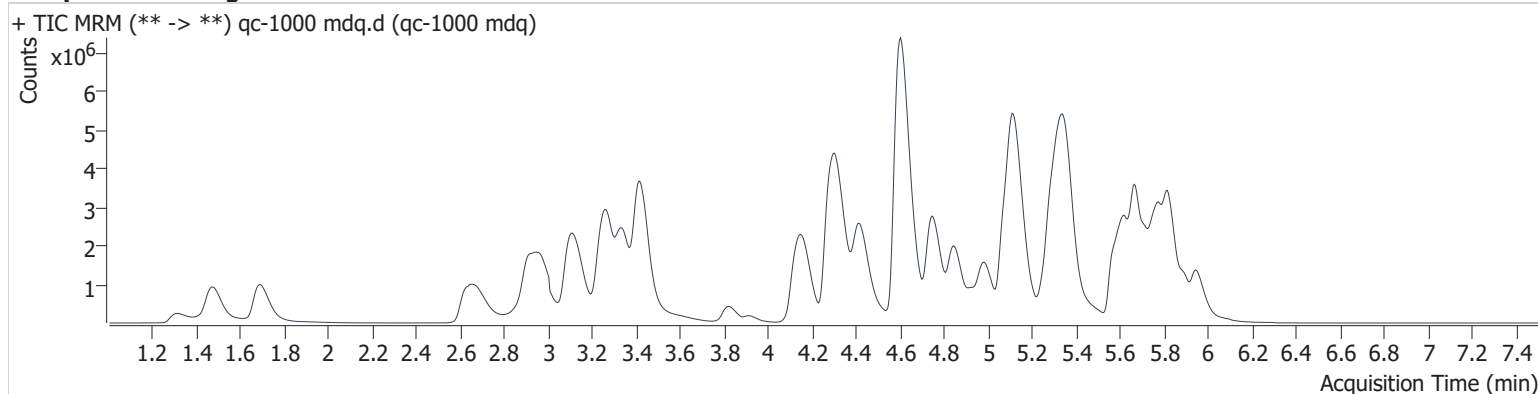


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
Calibration Last Update 8/20/2020 9:49:46 AM

Instrument 69679 Data File qc-1000 mdq.d  
Type QC Sample qc-1000 mdq  
Acq. Method MDQP1 5-27-20.m Operator Anne Nord  
Sample Position P2-D6 Comment  
Injection Volume 2  
Acq. Date-Time 8/20/2020 12:48:31 AM  
Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.192	157326	3850.1	76.0	3786.9	36840	103.630 ng/ml
7-aminoclonazepam	4.313	1582254	15814.6	89.2	11476.7	64924	1000.080 ng/ml
a-hydroxyalprazolam	5.697	321965	1578.0	60.2	445.1	17931	980.894 ng/ml
alpha-PHP	4.985	4320807	241271.3	39.1	17467.7	271937	1248.243 ng/ml
alpha-PVP	4.418	6801277	44666.2	49.6	4492.0	271937	1025.595 ng/ml
Alprazolam	5.776	2599609	1846.9	112.2	39271.8	90937	1085.588 ng/ml
Amphetamine	3.115	5814300	3888.1	47.2	9376.9	129225	869.059 ng/ml
Benzoylcegonine	3.915	365873	2996.5	7.4	888.4	9849	1147.135 ng/ml
Buprenorphine	5.856	56331	55043.6	15.7	1482.3	19268	106.749 ng/ml not evaluated
Bupropion	4.847	4697410	80810.9	63.0	16070.7	160105	998.216 ng/ml
Carisoprodol	5.726	1444078	43550.5	68.0	3051.8	76006	943.739 ng/ml
Citalopram	5.256	2650665	38183.0	42.2	48759.1	120838	989.359 ng/ml
Clonazepam	5.625	1907429	974164.7	32.1	740096.9	34194	911.809 ng/ml
Cocaine	4.312	5551143	417945.1	46.1	763.2	395392	1040.671 ng/ml
Codeine	2.685	827852	547.7	110.0	11619.5	39303	1112.057 ng/ml
Cyclobenzaprine	5.637	2413922	219443.9	8.8	3789.2	80474	1011.844 ng/ml
Dextromethorphan	5.300	1579934	317503.9	78.2	1709.4	71840	1095.626 ng/ml
Dextrorphan	4.166	1470826	74712.9	219.6	162970.0	178270	1002.398 ng/ml
Diazepam	5.947	2478440	4500.9	86.4	4318.7	114076	1047.057 ng/ml
Dihydrocodeine	2.628	2433802	24008.9	61.0	6314.2	143337	952.017 ng/ml
Diphenhydramine	5.331	8856395	195834.5	30.1	17746.7	447144	1048.439 ng/ml
Doxylamine	4.599	19533747	380671.1	97.6	550472.6	769089	1026.082 ng/ml
EDDP	5.294	3163874	1709.0	234.4	160762.5	352193	1021.830 ng/ml
Fluoxetine	5.719	1764524	24593.4	7.6	3252.6	65545	1071.768 ng/ml
Hydrocodone	3.097	3210749	2481.4	38.1	8336.0	185005	1020.874 ng/ml
Hydromorphone	1.687	2984562	8862.9	73.8	12834.9	87035	998.239 ng/ml
Ketamine	4.127	5377400	45904.6	38.8	12758.9	257054	951.778 ng/ml
Lamotrigine	4.360	354137	2479.3	84.0	7306.3	257054	709.684 ng/ml OCR
Lorazepam	5.744	930761	10288.9	50.6	3693.5	34194	602.296 ng/ml ocr
MDA	3.246	6480560	26166.6	24.0	21810.0	191516	1075.090 ng/ml
MDMA	3.343	5324802	177596.5	81.4	47596.9	52940	954.397 ng/ml
Meprobamate	4.935	1944950	1831169.1	29.4	34945.5	86564	919.203 ng/ml
Methadone	5.667	6452775	99557.8	50.2	49863.3	298170	1093.878 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Methamphetamine	3.273	2519423	1769.9	43.5	11921.2	143879	942.696	ng/ml
<del>Metoprolol</del>	<del>4.364</del>	<del>695987</del>	<del>244382.5</del>	<del>94.9</del>	<del>6786.3</del>	<del>257054</del>	<del>781.826</del>	<del>ng/ml</del> ocr
Mirtazapine	4.743	8208777	16398.8	47.0	11912.9	298170	960.415	ng/ml
Mitragynine	5.302	600925	1162856.6	36.0	2907.2	65545	865.059	ng/ml
Morphine	1.311	397726	13531.4	21.7	1295.1	5098	1053.896	ng/ml
Nordiazepam	5.891	1931760	2348612.2	60.4	2651562.1	62717	1123.590	ng/ml
Norfentanyl	4.107	101786	5189.8	291.4	2566.0	447062	85.899	ng/ml
Norhydrocodone	3.122	93382	1063.2	20.9	327.2	30034	1080.786	ng/ml
Noroxycodone	2.974	2583029	7060.9	39.3	10464.6	88956	1001.311	ng/ml
O-desmethyl-tramadol	3.414	14782520	122194.9	6.2	6962.0	747072	1068.345	ng/ml
Oxazepam	5.751	2057829	18596.2	73.1	14236.2	118940	975.724	ng/ml
Oxycodone	2.913	7659828	16443.6	29.0	4083.7	330447	1006.139	ng/ml
Oxymorphone	1.469	3837754	32517.2	43.5	7170.3	150727	984.769	ng/ml
Phentermine	3.821	1168440	4525.9	7.3	736.9	156114	1065.449	ng/ml
Promethazine	5.570	4860676	4947508.7	36.7	2936.5	226243	1041.074	ng/ml
Quetiapine	5.603	3075967	3184824.3	58.4	14701.1	40748	957.485	ng/ml
Temazepam	5.823	6530512	225111.3	30.7	17227.3	295789	1035.484	ng/ml
Tramadol	4.273	12878451	697165.9	3.5	3607.2	742882	885.299	ng/ml
Trazodone	5.359	5328151	339932.7	76.5	35569.7	191952	1183.955	ng/ml
Venlafaxine	5.071	8184663	57738.4	39.6	73054.0	447175	1179.956	ng/ml
Zolpidem	5.117	15678251	28313.1	30.9	18333.6	690433	1062.041	ng/ml

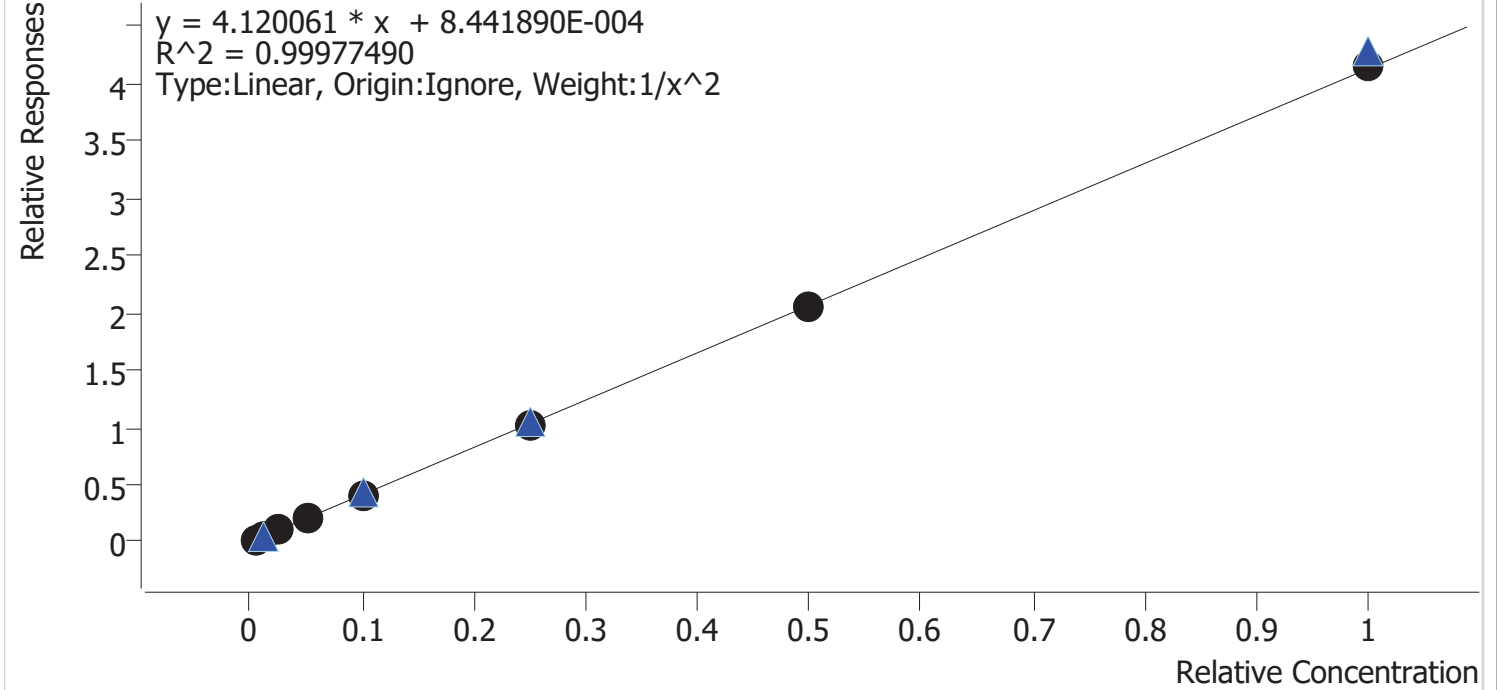
ocr = outside curve range

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 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



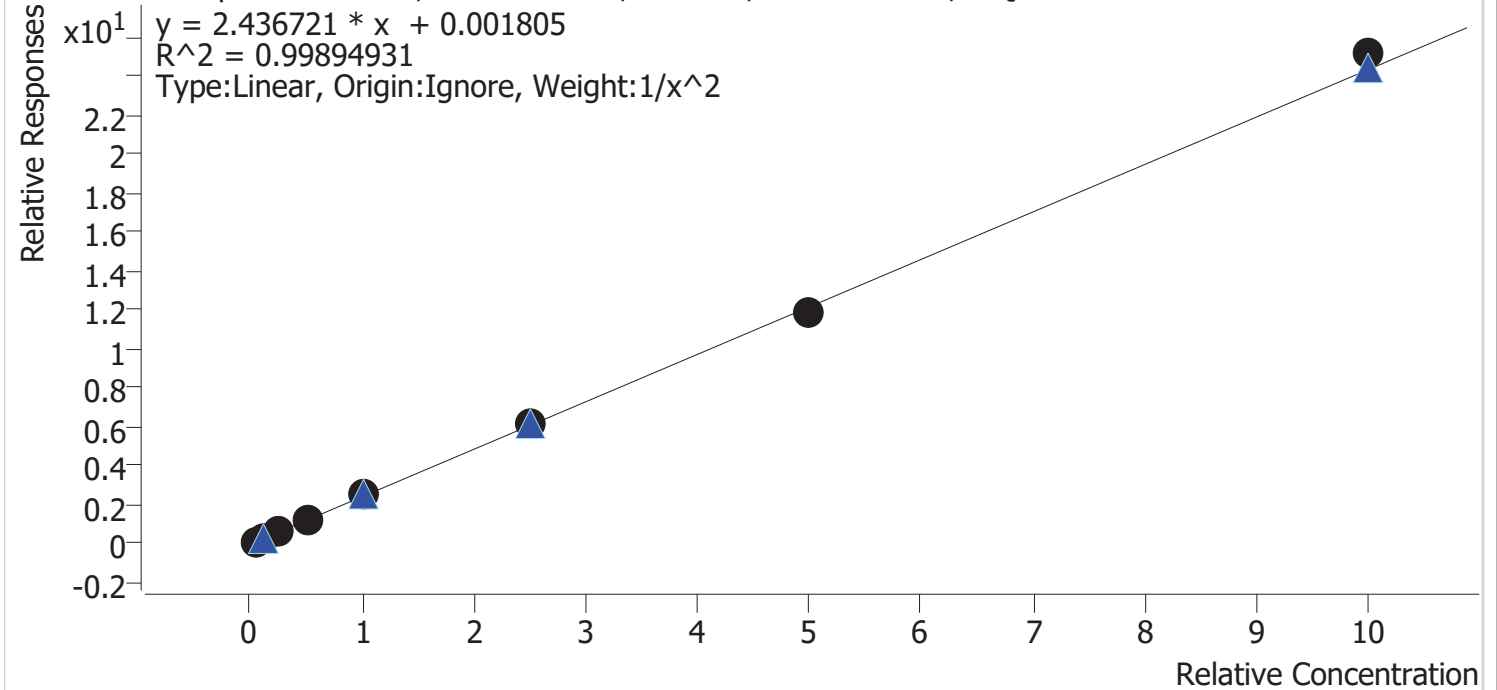
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	98.9
cal 2 mdq	2	✓	1.0	1.0	101.7
cal 3 mdq	3	✓	2.5	2.5	101.6
cal 4 mdq	4	✓	5.0	5.0	100.2
cal 5 mdq	5	✓	10.0	9.8	98.5
cal 6 mdq	6	✓	25.0	24.9	99.5
cal 7 mdq	7	✓	50.0	49.3	98.7
cal 8 mdq	8	✓	100.0	100.9	100.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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

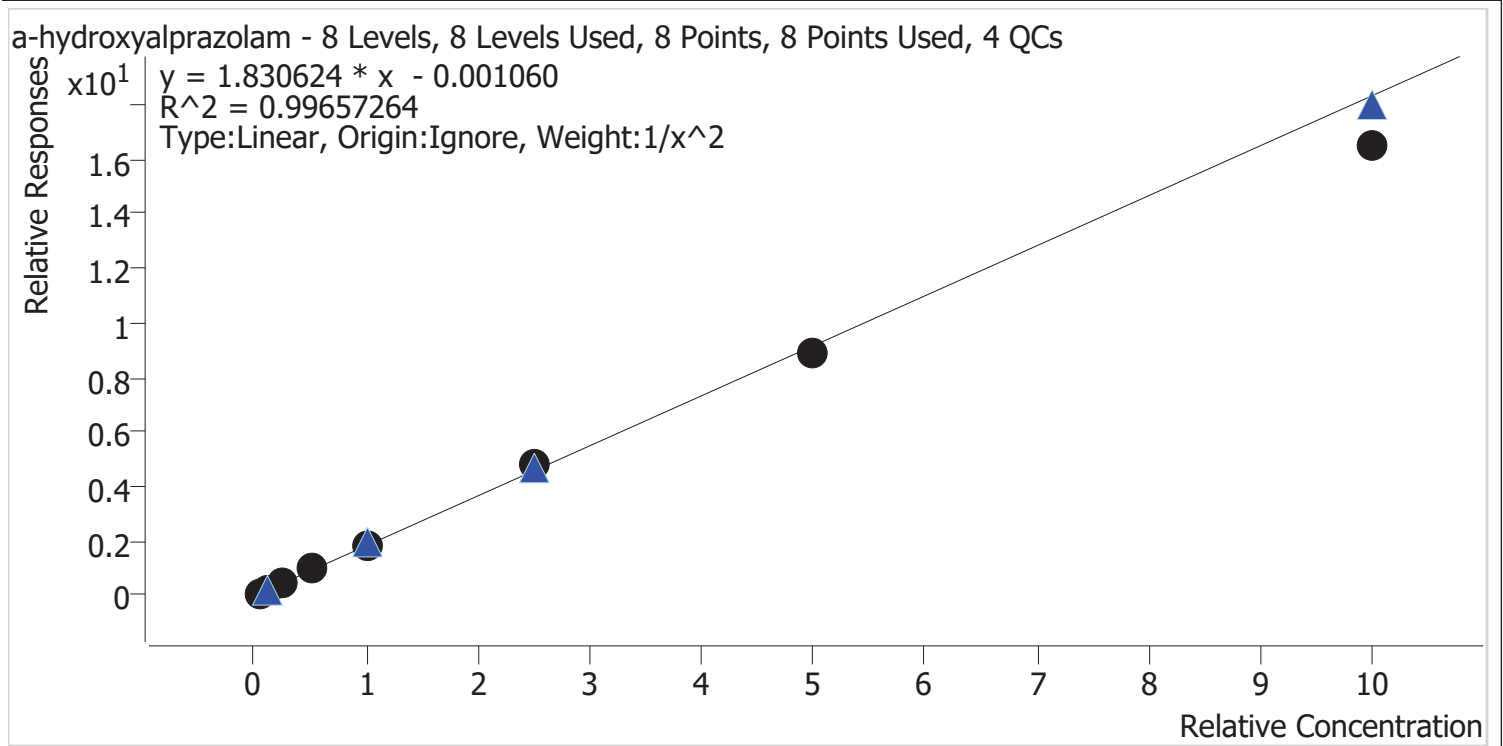


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.1
cal 2 mdq	2	✓	10.0	9.7	96.9
cal 3 mdq	3	✓	25.0	24.0	95.8
cal 4 mdq	4	✓	50.0	50.6	101.2
cal 5 mdq	5	✓	100.0	102.1	102.1
cal 6 mdq	6	✓	250.0	252.1	100.8
cal 7 mdq	7	✓	500.0	487.7	97.5
cal 8 mdq	8	✓	1000.0	1033.8	103.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.6
cal 2 mdq	2	✓	10.0	10.1	101.3
cal 3 mdq	3	✓	25.0	25.0	99.9
cal 4 mdq	4	✓	50.0	53.4	106.8
cal 5 mdq	5	✓	100.0	102.5	102.5
cal 6 mdq	6	✓	250.0	259.8	103.9
cal 7 mdq	7	✓	500.0	485.6	97.1
cal 8 mdq	8	✓	1000.0	899.3	89.9





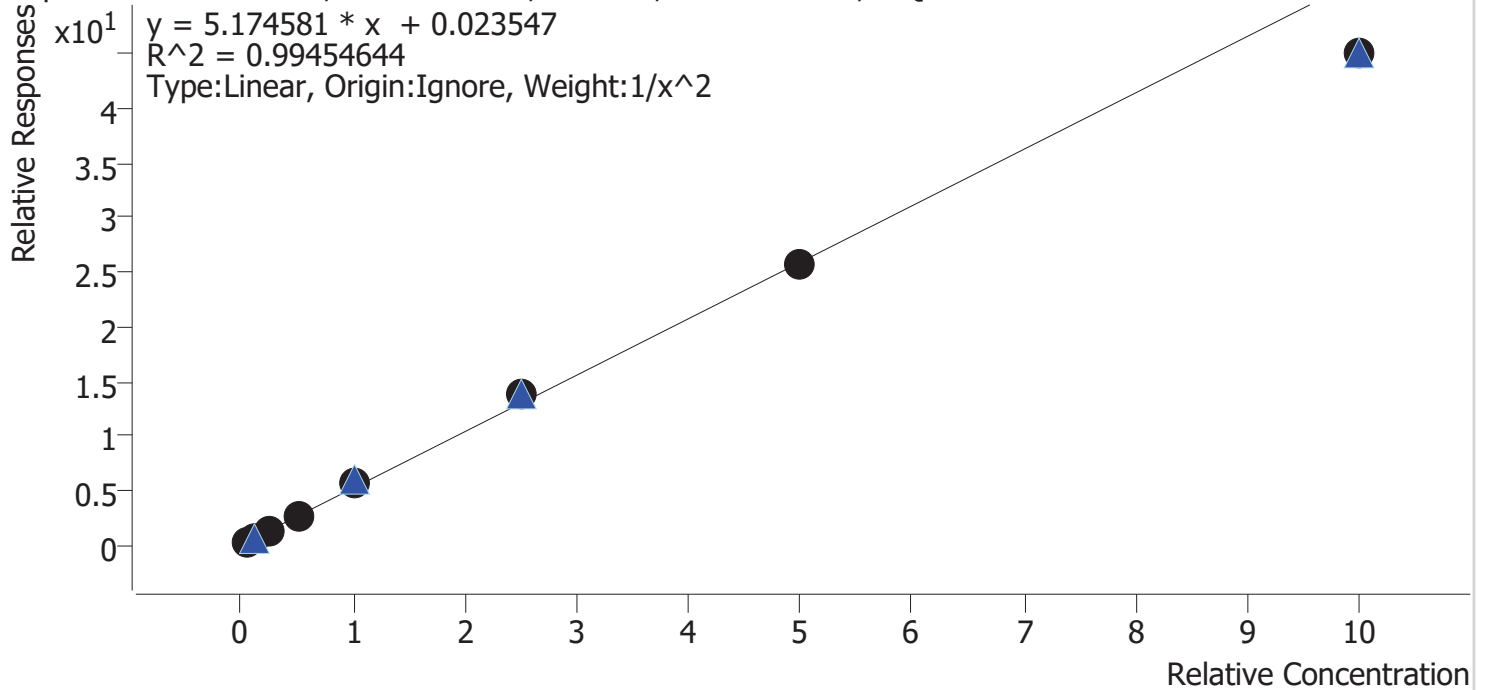


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



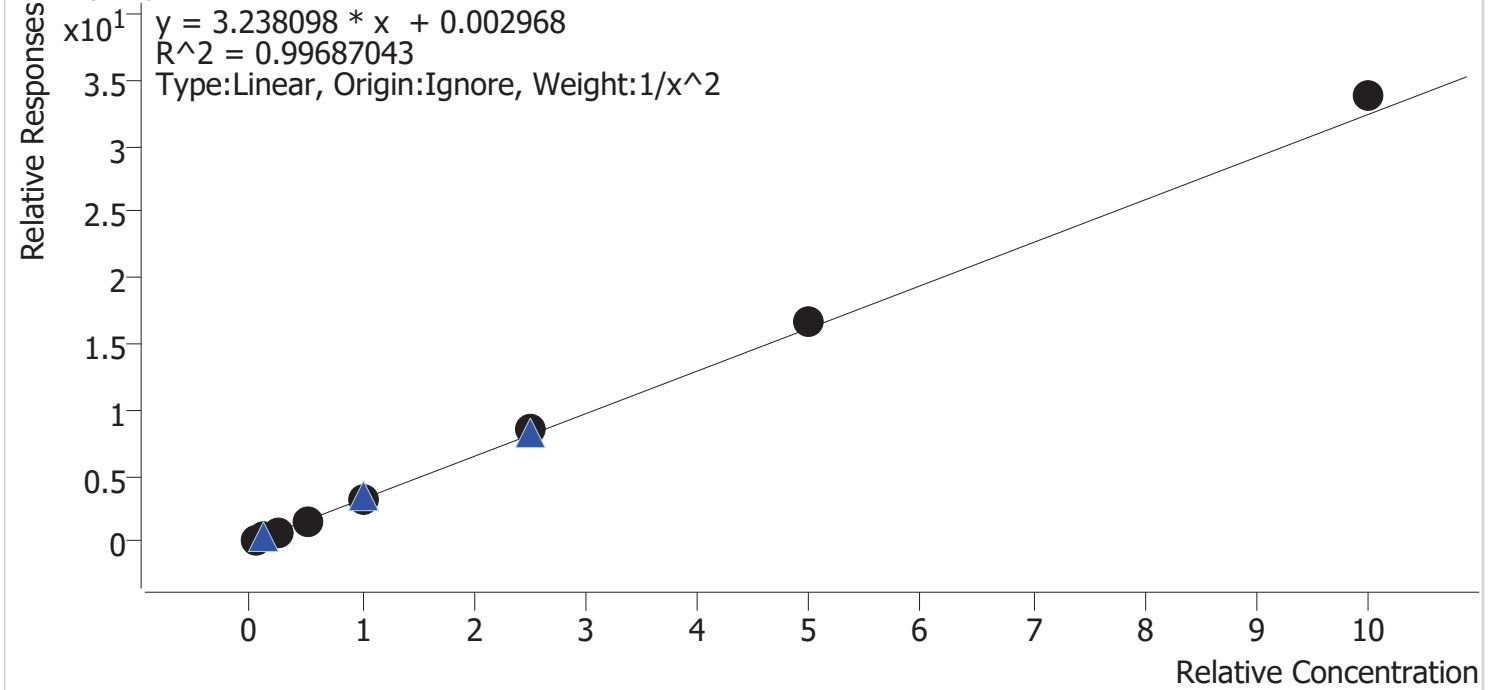
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.3
cal 2 mdq	2	✓	10.0	9.8	98.4
cal 3 mdq	3	✓	25.0	25.1	100.2
cal 4 mdq	4	✓	50.0	50.0	100.0
cal 5 mdq	5	✓	100.0	108.5	108.5
cal 6 mdq	6	✓	250.0	266.3	106.5
cal 7 mdq	7	✓	500.0	495.2	99.0
cal 8 mdq	8	✓	1000.0	869.5	87.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



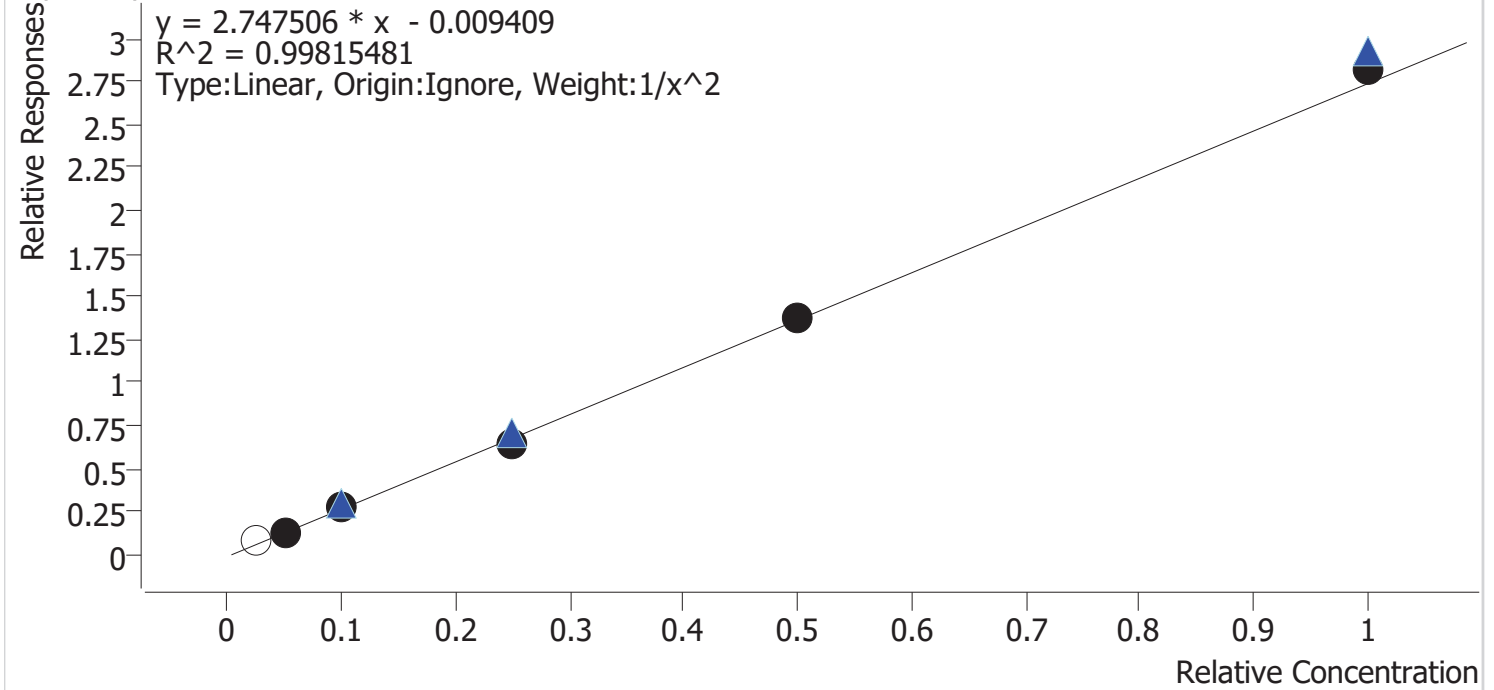
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	104.6
cal 2 mdq	2	✓	10.0	9.2	92.0
cal 3 mdq	3	✓	25.0	24.9	99.7
cal 4 mdq	4	✓	50.0	47.5	95.0
cal 5 mdq	5	✓	100.0	97.1	97.1
cal 6 mdq	6	✓	250.0	261.6	104.6
cal 7 mdq	7	✓	500.0	512.6	102.5
cal 8 mdq	8	✓	1000.0	1044.9	104.5

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Buprenorphine	<b>Internal Standard</b>	Buprenorphine-D4

Buprenorphine - 6 Levels, 5 Levels Used, 6 Points, 5 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 3 mdq	3	×	2.5	3.5	141.9
cal 4 mdq	4	✓	5.0	5.0	99.8
cal 5 mdq	5	✓	10.0	10.2	102.1
cal 6 mdq	6	✓	25.0	23.6	94.5
cal 7 mdq	7	✓	50.0	50.2	100.4
cal 8 mdq	8	✓	100.0	103.1	103.1

NOT EVALUATED

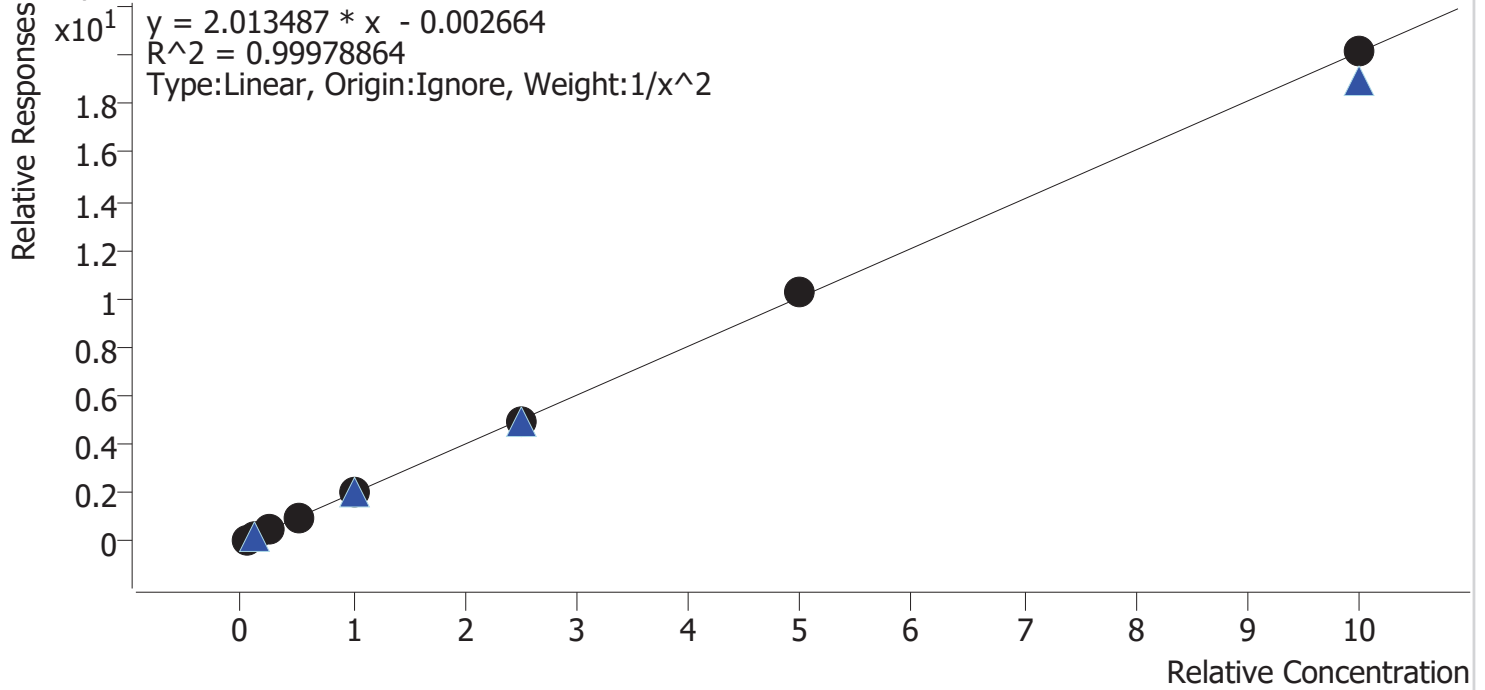


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



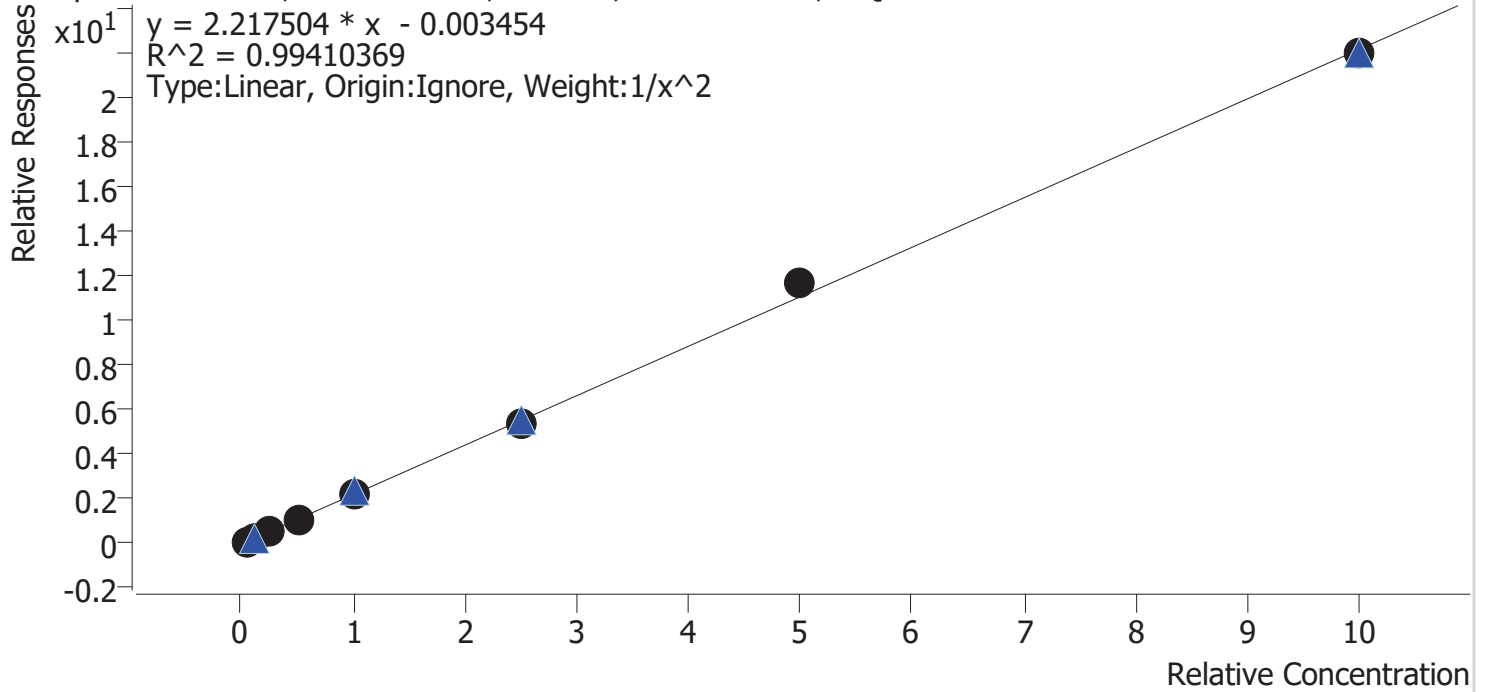
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	9.8	98.1
cal 3 mdq	3	✓	25.0	25.4	101.8
cal 4 mdq	4	✓	50.0	49.9	99.7
cal 5 mdq	5	✓	100.0	99.2	99.2
cal 6 mdq	6	✓	250.0	247.4	98.9
cal 7 mdq	7	✓	500.0	507.4	101.5
cal 8 mdq	8	✓	1000.0	1001.0	100.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.6
cal 2 mdq	2	✓	10.0	11.3	112.6
cal 3 mdq	3	✓	25.0	22.5	90.1
cal 4 mdq	4	✓	50.0	50.6	101.2
cal 5 mdq	5	✓	100.0	97.4	97.4
cal 6 mdq	6	✓	250.0	246.9	98.7
cal 7 mdq	7	✓	500.0	525.5	105.1
cal 8 mdq	8	✓	1000.0	991.5	99.2





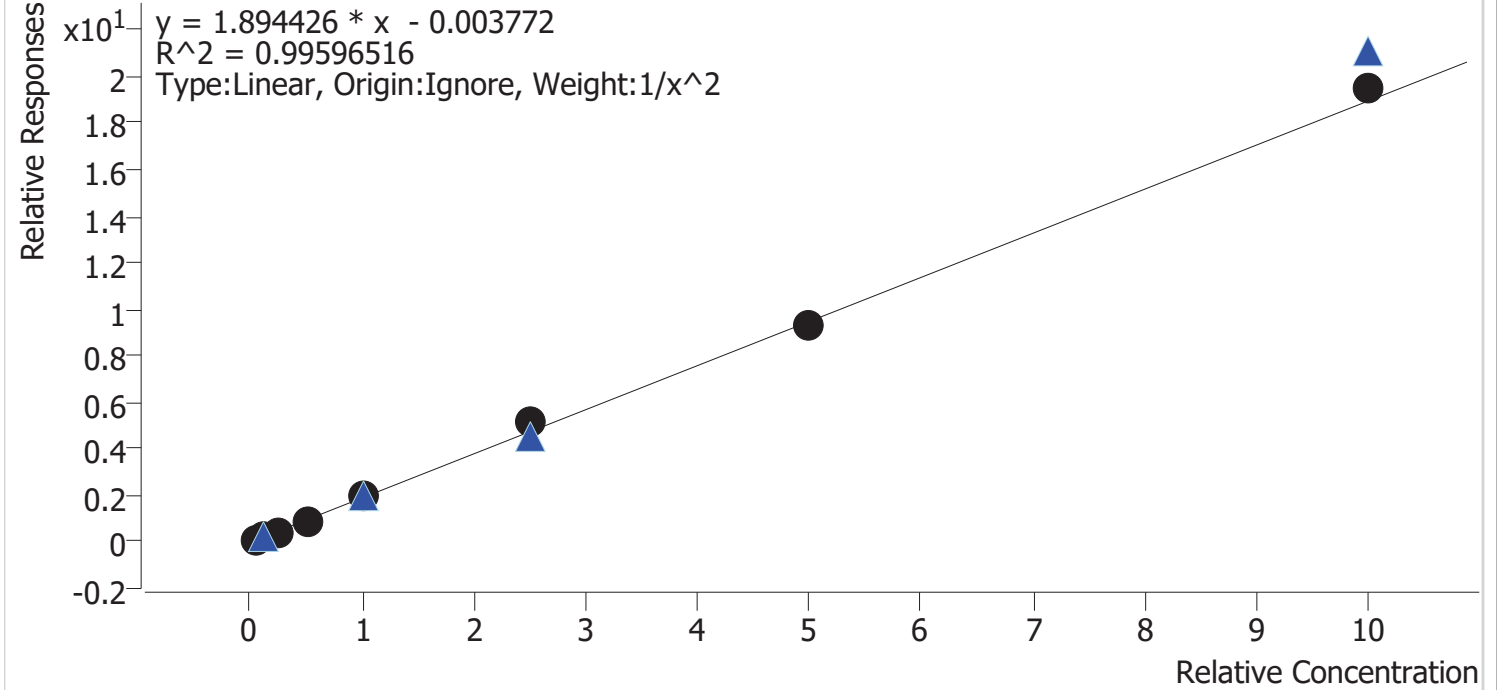


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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



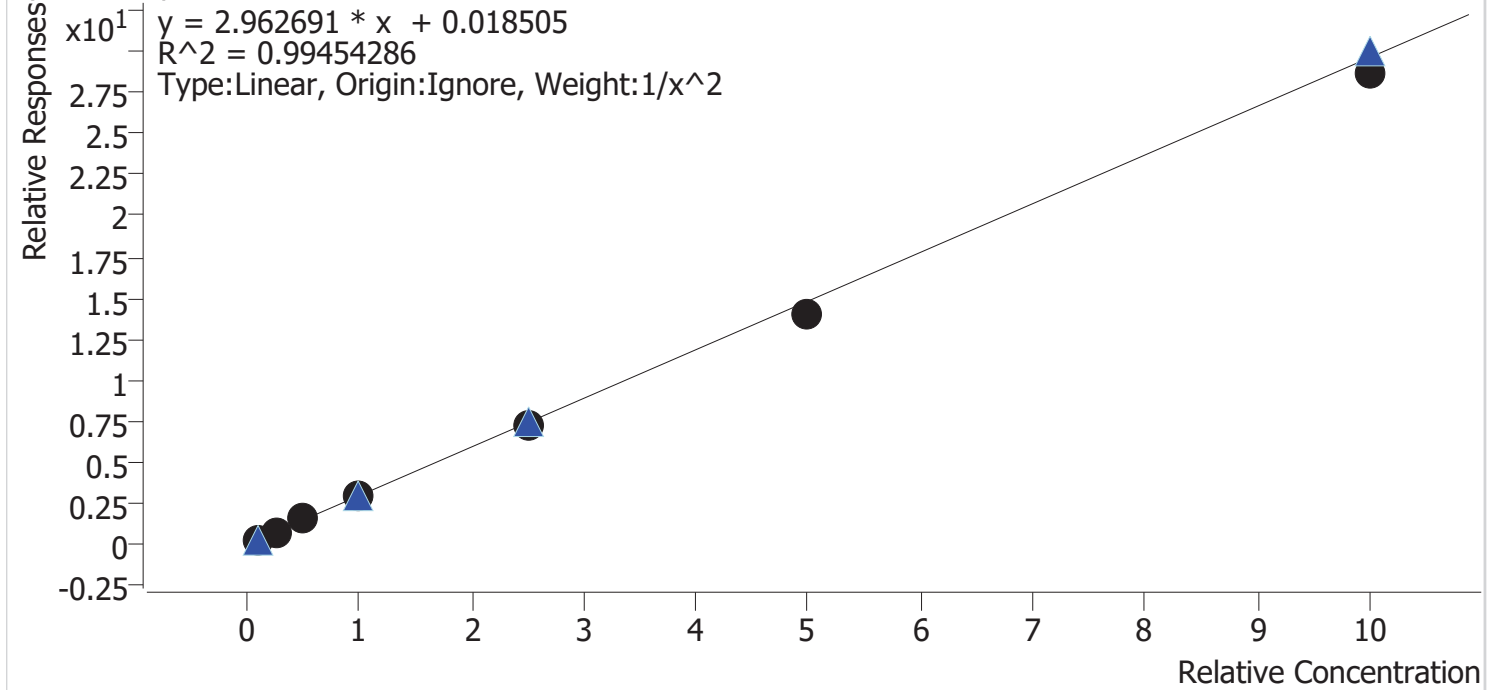
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.8
cal 2 mdq	2	✓	10.0	9.8	97.6
cal 3 mdq	3	✓	25.0	23.6	94.4
cal 4 mdq	4	✓	50.0	45.7	91.4
cal 5 mdq	5	✓	100.0	102.9	102.9
cal 6 mdq	6	✓	250.0	271.9	108.8
cal 7 mdq	7	✓	500.0	495.0	99.0
cal 8 mdq	8	✓	1000.0	1030.5	103.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



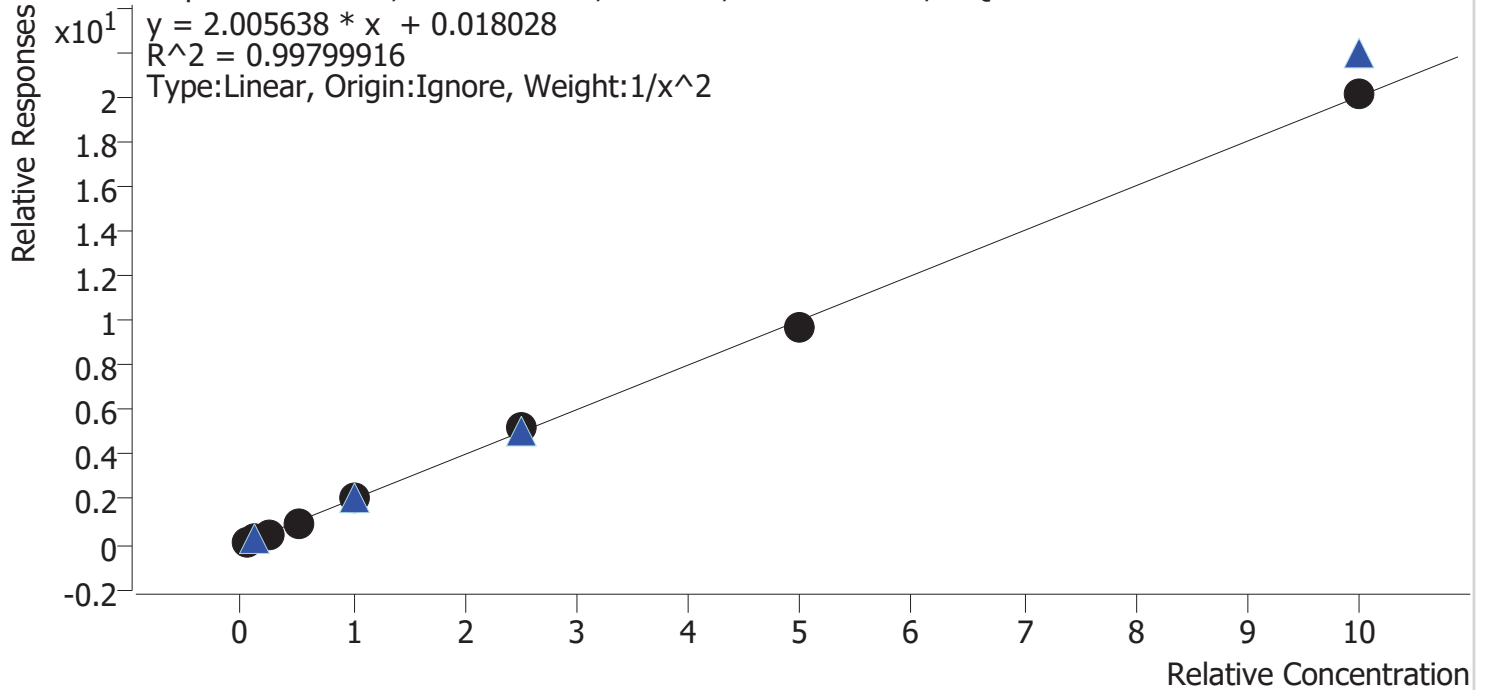
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 2 mdq	2	✓	10.0	9.7	97.0
cal 3 mdq	3	✓	25.0	25.3	101.4
cal 4 mdq	4	✓	50.0	56.7	113.5
cal 5 mdq	5	✓	100.0	100.1	100.1
cal 6 mdq	6	✓	250.0	241.9	96.8
cal 7 mdq	7	✓	500.0	473.6	94.7
cal 8 mdq	8	✓	1000.0	965.3	96.5

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dextromethorphan	<b>Internal Standard</b>	Dextromethorphan-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.3
cal 2 mdq	2	✓	10.0	10.5	105.4
cal 3 mdq	3	✓	25.0	24.2	96.9
cal 4 mdq	4	✓	50.0	47.4	94.7
cal 5 mdq	5	✓	100.0	102.7	102.7
cal 6 mdq	6	✓	250.0	260.8	104.3
cal 7 mdq	7	✓	500.0	484.5	96.9
cal 8 mdq	8	✓	1000.0	1008.3	100.8



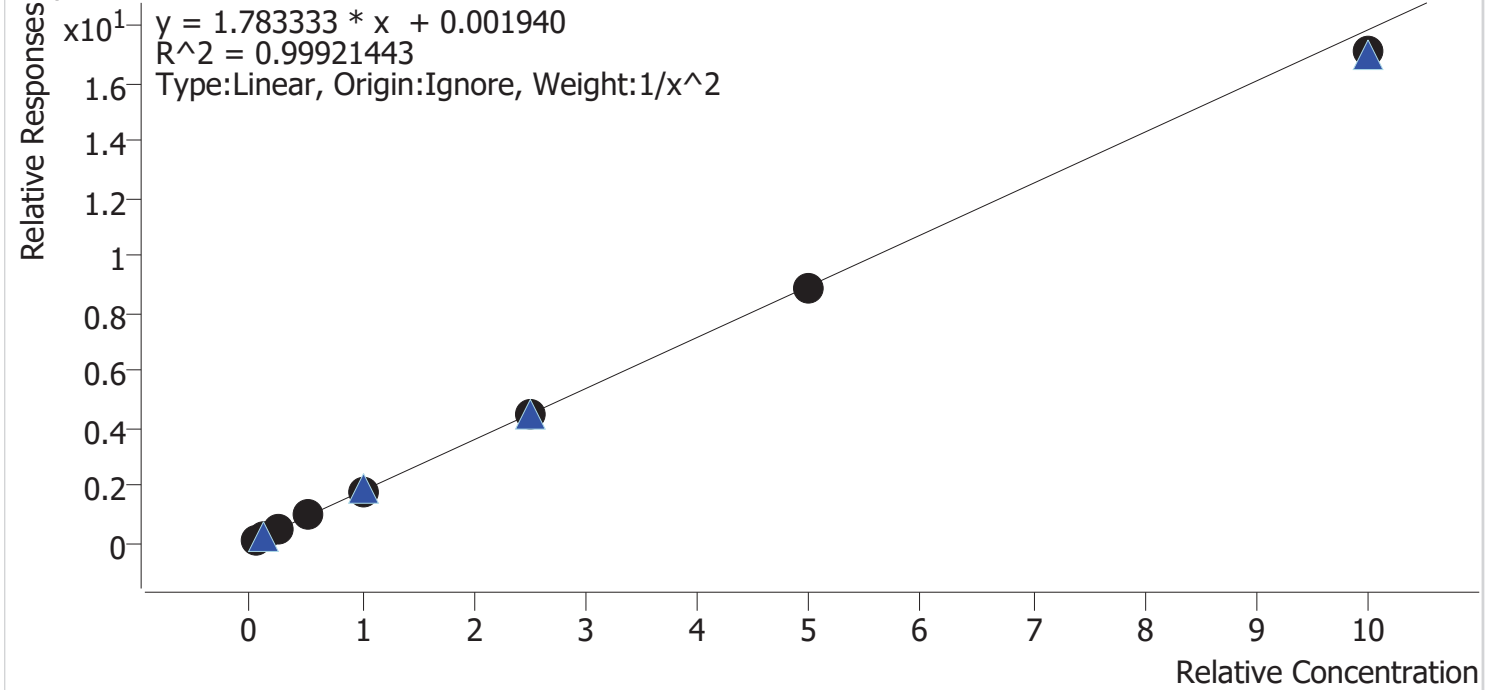


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

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



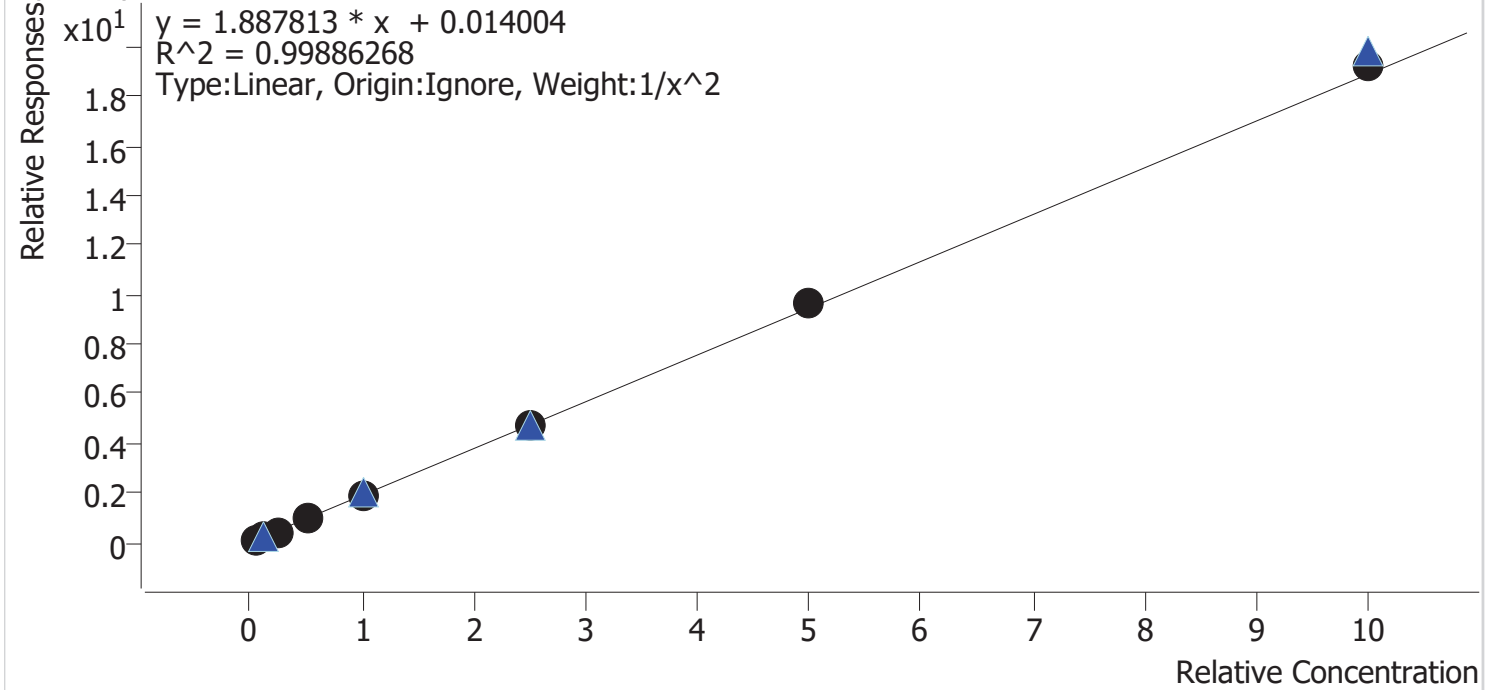
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.1
cal 2 mdq	2	✓	10.0	9.9	98.9
cal 3 mdq	3	✓	25.0	24.9	99.6
cal 4 mdq	4	✓	50.0	52.3	104.5
cal 5 mdq	5	✓	100.0	101.1	101.1
cal 6 mdq	6	✓	250.0	251.1	100.4
cal 7 mdq	7	✓	500.0	497.8	99.6
cal 8 mdq	8	✓	1000.0	957.4	95.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



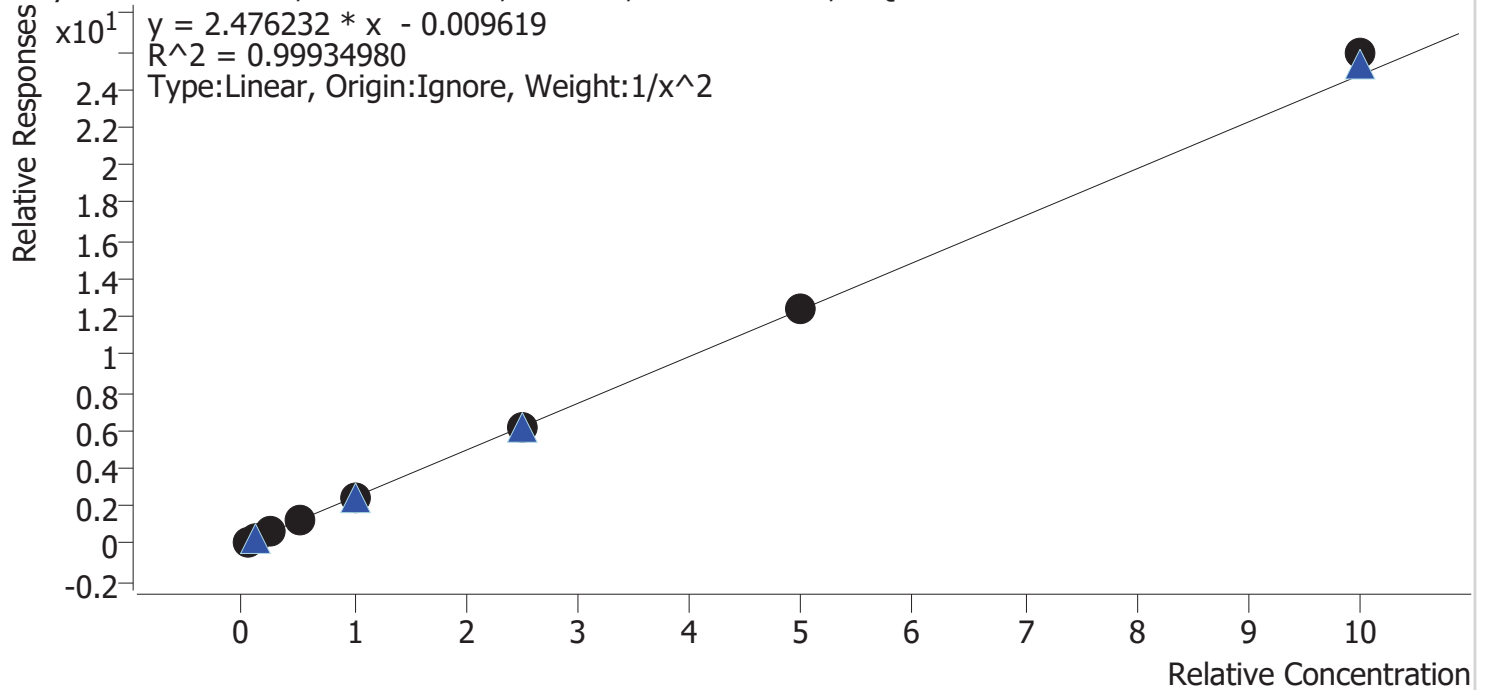
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	10.1	101.2
cal 3 mdq	3	✓	25.0	23.2	92.9
cal 4 mdq	4	✓	50.0	50.6	101.1
cal 5 mdq	5	✓	100.0	101.0	101.0
cal 6 mdq	6	✓	250.0	249.1	99.7
cal 7 mdq	7	✓	500.0	508.6	101.7
cal 8 mdq	8	✓	1000.0	1017.8	101.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.4
cal 2 mdq	2	✓	10.0	10.0	100.5
cal 3 mdq	3	✓	25.0	24.4	97.6
cal 4 mdq	4	✓	50.0	49.5	98.9
cal 5 mdq	5	✓	100.0	97.8	97.8
cal 6 mdq	6	✓	250.0	248.4	99.3
cal 7 mdq	7	✓	500.0	504.2	100.8
cal 8 mdq	8	✓	1000.0	1045.8	104.6

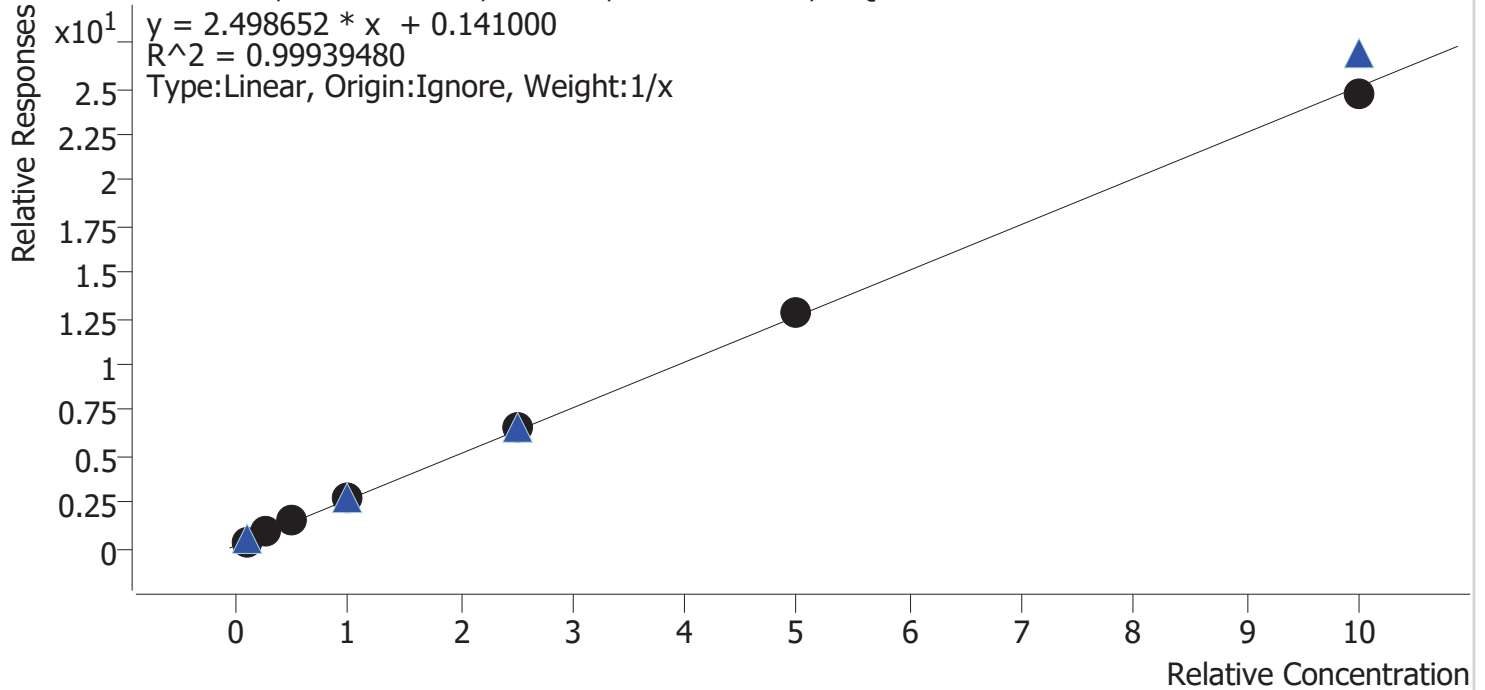




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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



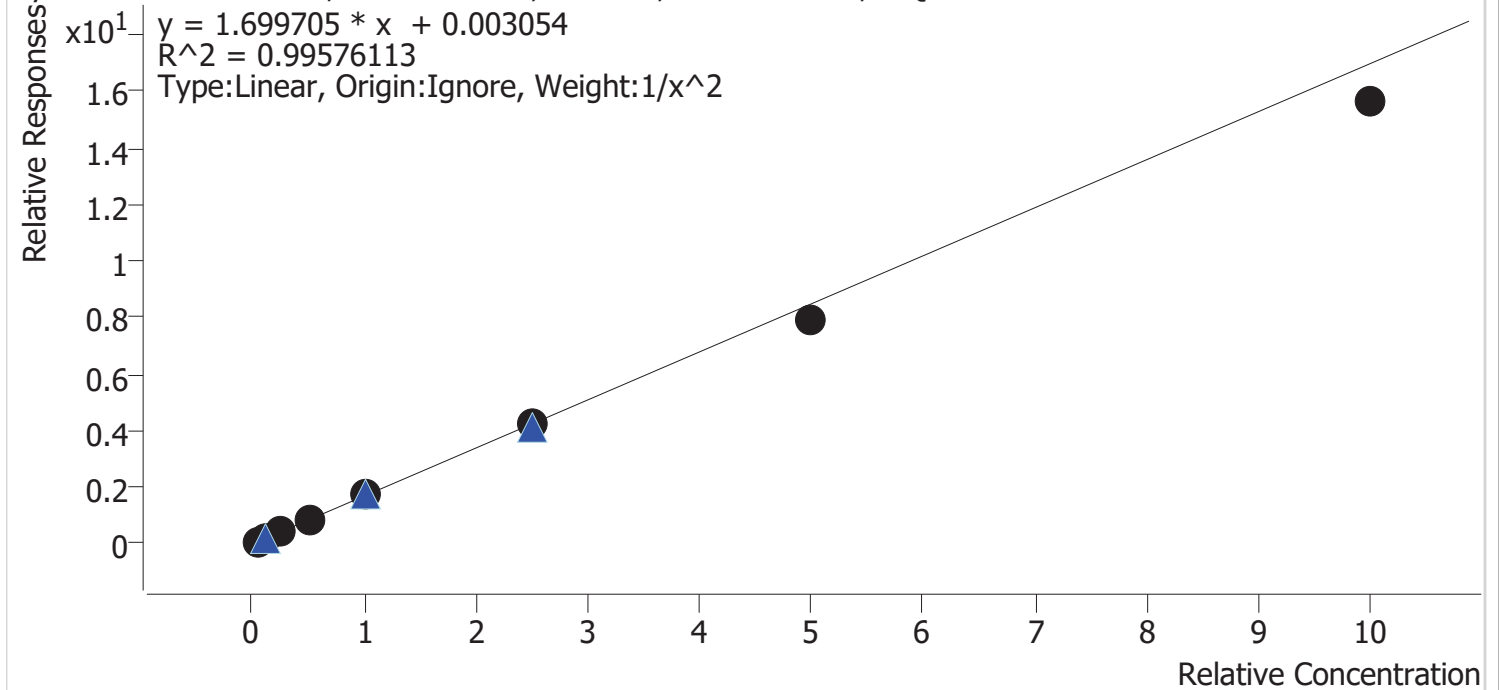
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 2 mdq	2	✓	10.0	8.3	83.1
cal 3 mdq	3	✓	25.0	27.5	110.0
cal 4 mdq	4	✓	50.0	51.7	103.3
cal 5 mdq	5	✓	100.0	102.0	102.0
cal 6 mdq	6	✓	250.0	254.7	101.9
cal 7 mdq	7	✓	500.0	505.7	101.1
cal 8 mdq	8	✓	1000.0	985.1	98.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.3
cal 2 mdq	2	✓	10.0	9.9	99.1
cal 3 mdq	3	✓	25.0	26.8	107.1
cal 4 mdq	4	✓	50.0	53.3	106.5
cal 5 mdq	5	✓	100.0	103.5	103.5
cal 6 mdq	6	✓	250.0	251.5	100.6
cal 7 mdq	7	✓	500.0	465.3	93.1
cal 8 mdq	8	✓	1000.0	918.1	91.8

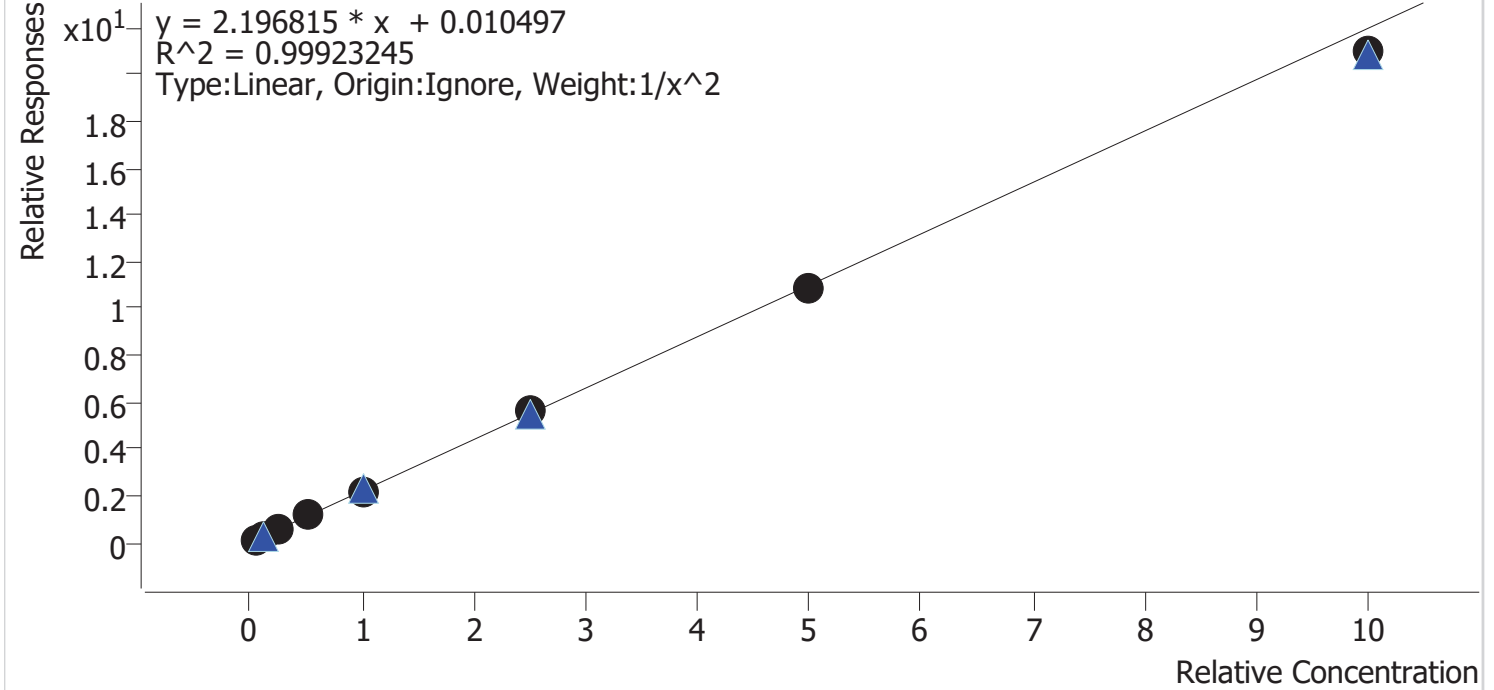


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.6
cal 2 mdq	2	✓	10.0	9.9	99.2
cal 3 mdq	3	✓	25.0	25.5	102.0
cal 4 mdq	4	✓	50.0	51.5	103.0
cal 5 mdq	5	✓	100.0	100.9	100.9
cal 6 mdq	6	✓	250.0	253.5	101.4
cal 7 mdq	7	✓	500.0	491.3	98.3
cal 8 mdq	8	✓	1000.0	954.6	95.5

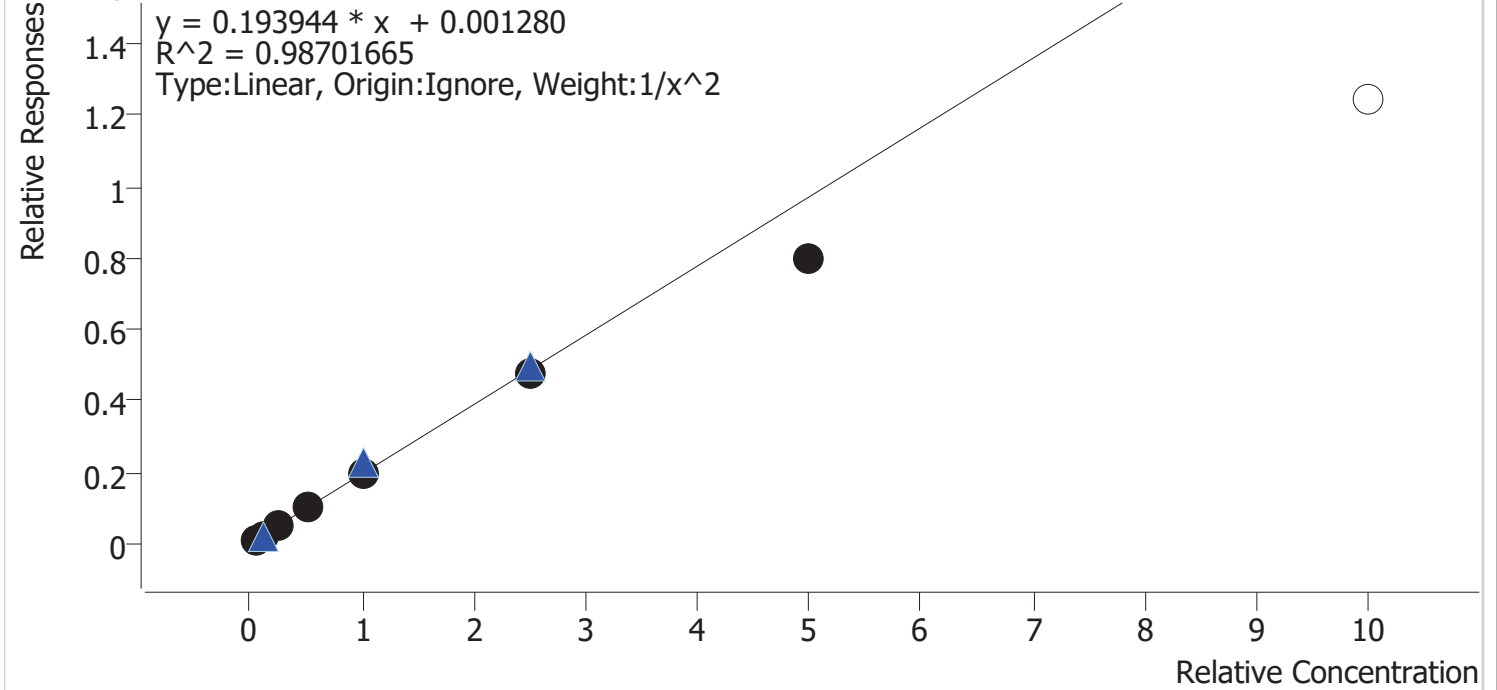


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	93.5
cal 2 mdq	2	✓	10.0	10.8	108.4
cal 3 mdq	3	✓	25.0	27.1	108.5
cal 4 mdq	4	✓	50.0	53.7	107.3
cal 5 mdq	5	✓	100.0	102.3	102.3
cal 6 mdq	6	✓	250.0	244.6	97.8
cal 7 mdq	7	✓	500.0	411.1	82.2
cal 8 mdq	8	×	1000.0	638.4	63.8



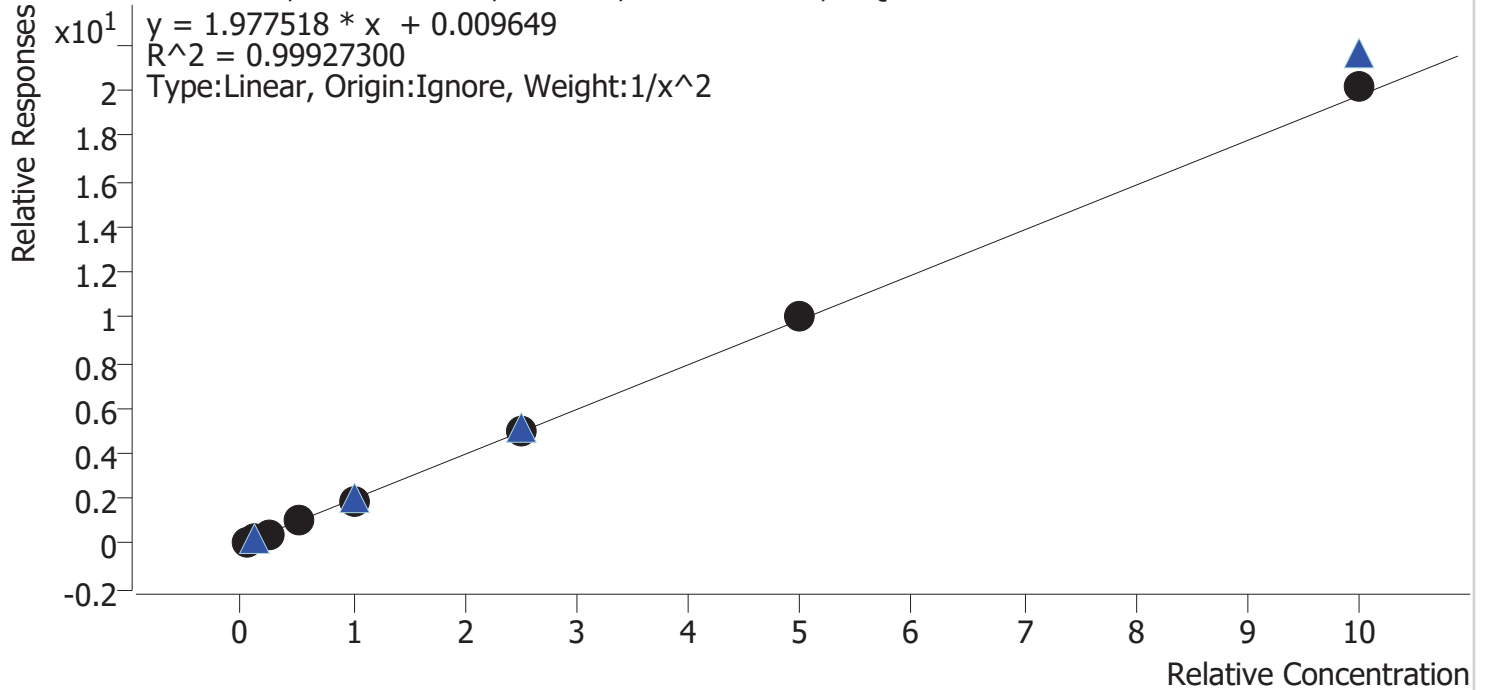


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



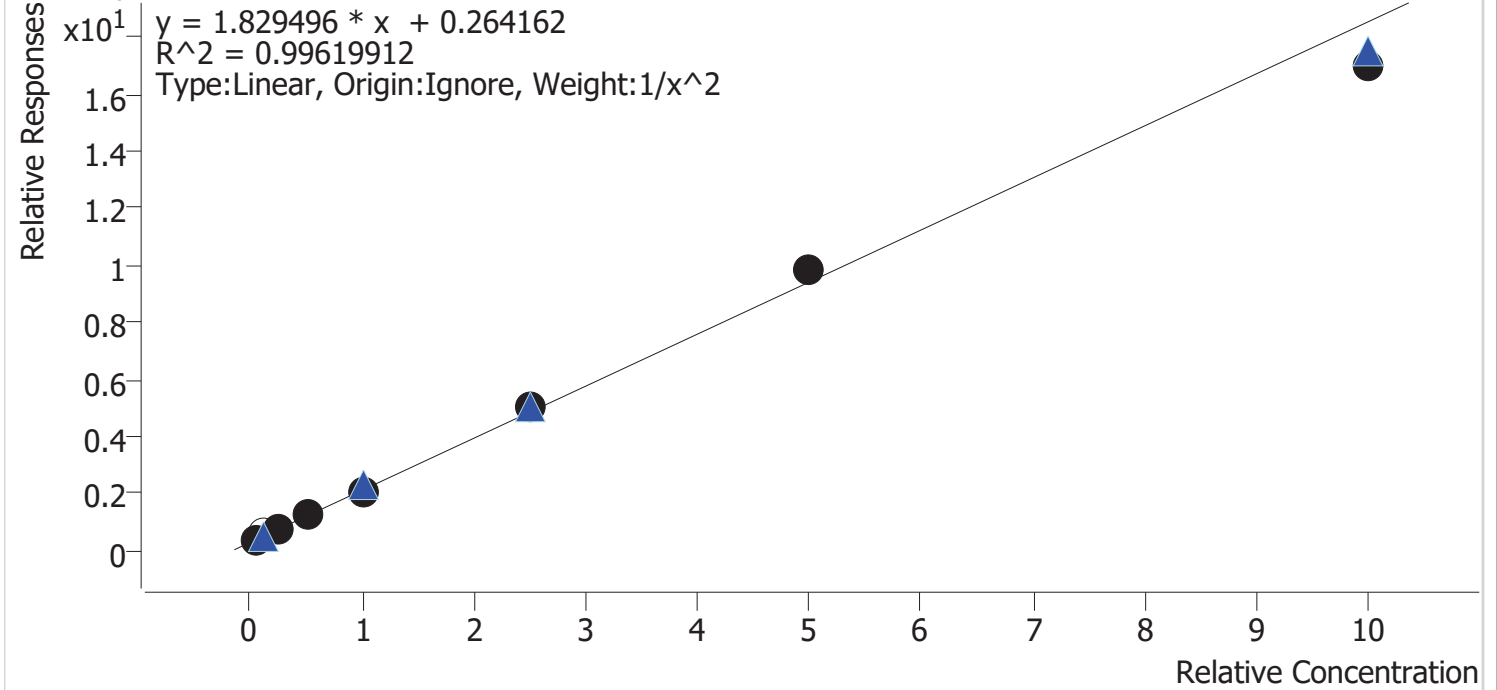
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.2
cal 2 mdq	2	✓	10.0	10.2	101.6
cal 3 mdq	3	✓	25.0	23.8	95.1
cal 4 mdq	4	✓	50.0	50.4	100.7
cal 5 mdq	5	✓	100.0	98.4	98.4
cal 6 mdq	6	✓	250.0	249.7	99.9
cal 7 mdq	7	✓	500.0	509.4	101.9
cal 8 mdq	8	✓	1000.0	1022.7	102.3

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Methamphetamine	<b>Internal Standard</b>	Methamphetamine-D11

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



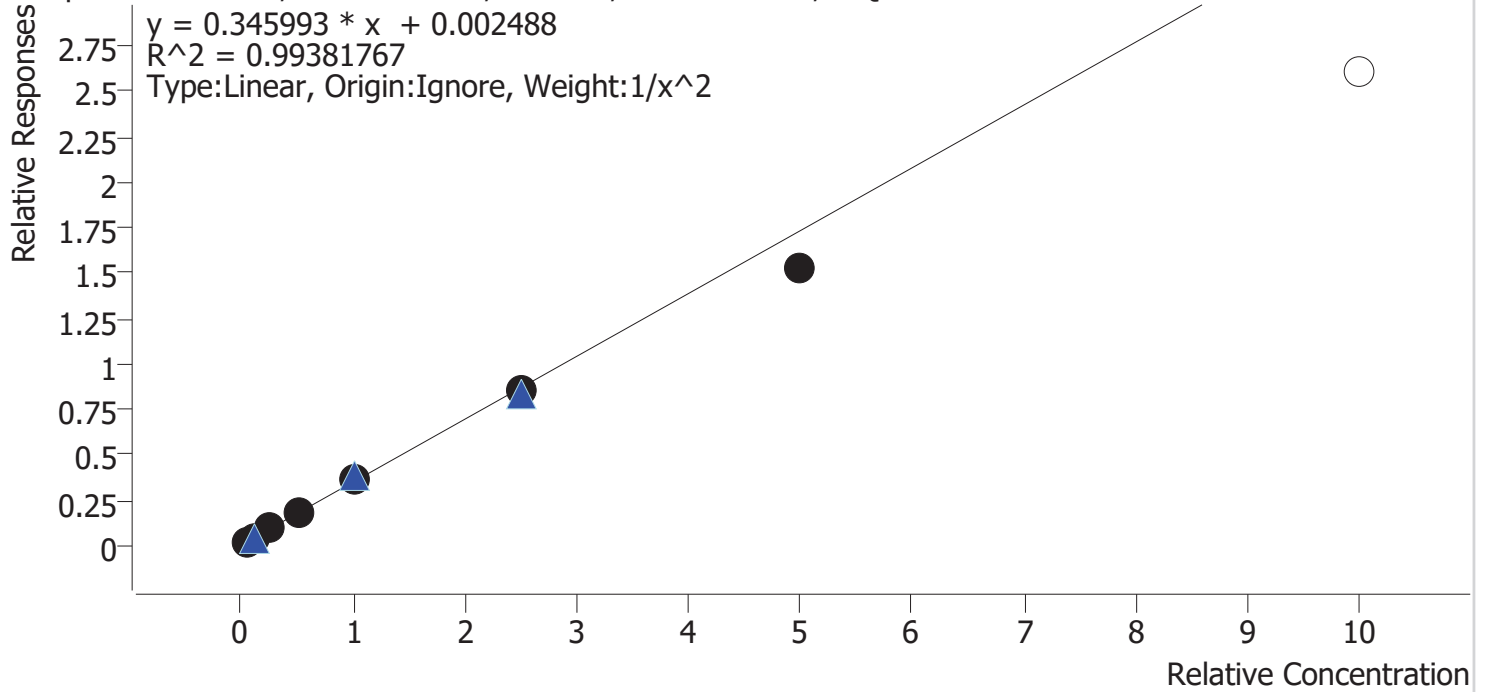
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.6
cal 2 mdq	2	×	10.0	17.4	173.6
cal 3 mdq	3	✓	25.0	26.9	107.5
cal 4 mdq	4	✓	50.0	50.9	101.8
cal 5 mdq	5	✓	100.0	93.5	93.5
cal 6 mdq	6	✓	250.0	256.7	102.7
cal 7 mdq	7	✓	500.0	521.0	104.2
cal 8 mdq	8	✓	1000.0	916.9	91.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.2
cal 2 mdq	2	✓	10.0	9.9	99.1
cal 3 mdq	3	✓	25.0	27.3	109.2
cal 4 mdq	4	✓	50.0	52.1	104.2
cal 5 mdq	5	✓	100.0	103.5	103.5
cal 6 mdq	6	✓	250.0	244.3	97.7
cal 7 mdq	7	✓	500.0	440.4	88.1
cal 8 mdq	8	×	1000.0	755.3	75.5



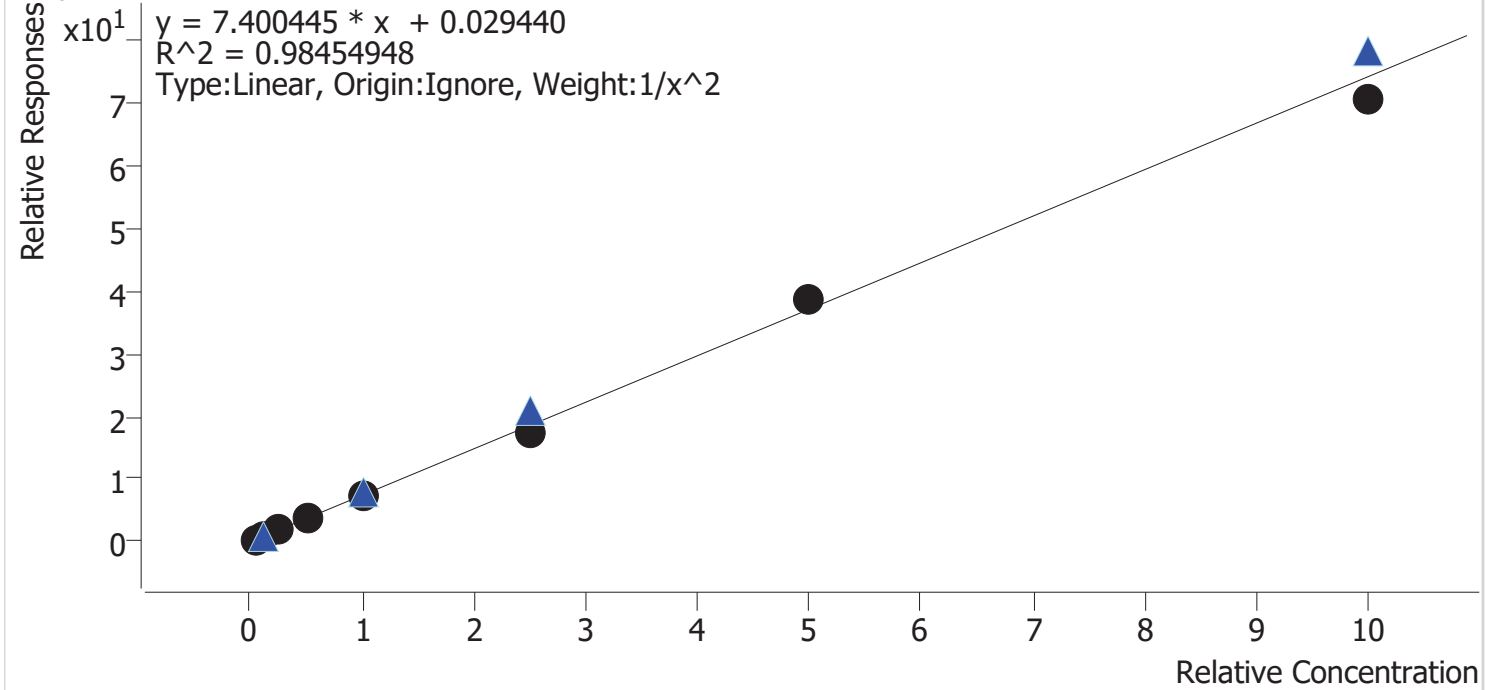


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

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



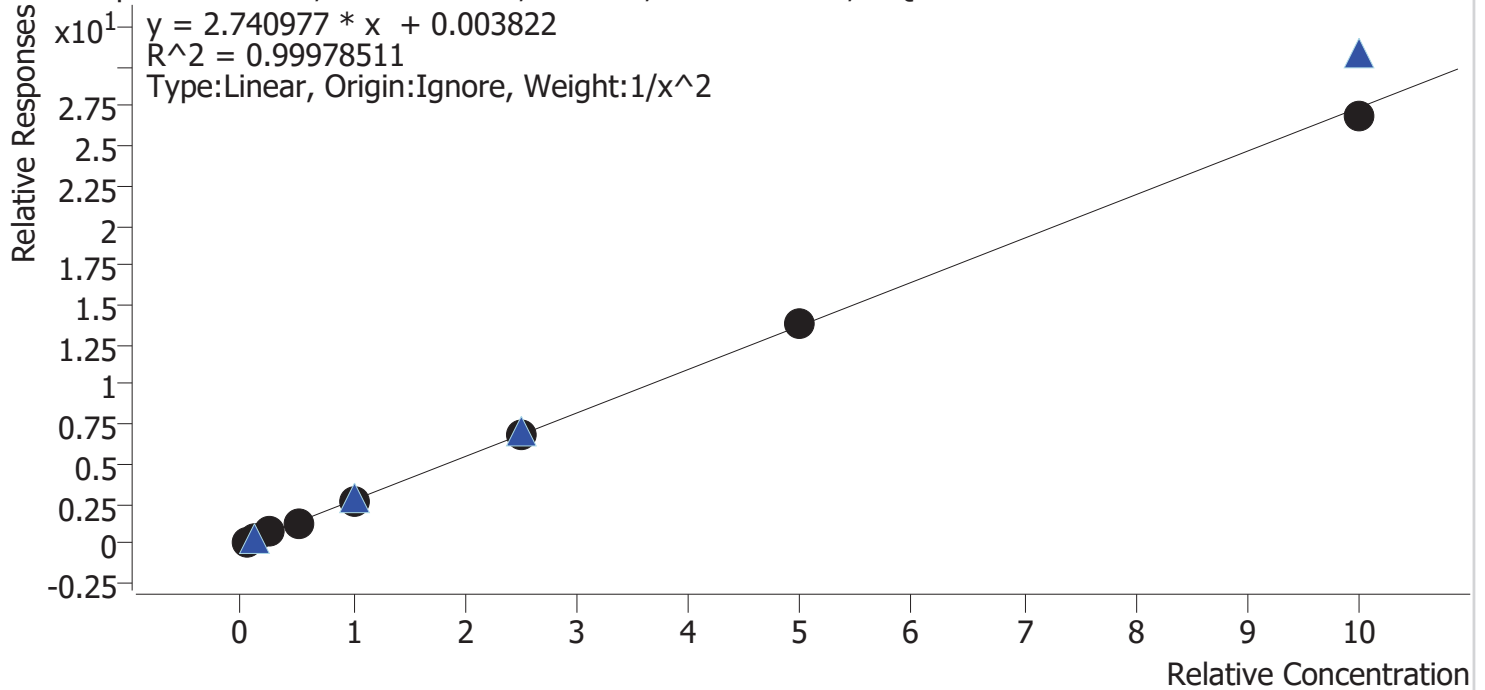
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.4	88.4
cal 2 mdq	2	✓	10.0	12.5	124.8
cal 3 mdq	3	✓	25.0	24.6	98.6
cal 4 mdq	4	✓	50.0	48.7	97.5
cal 5 mdq	5	✓	100.0	96.5	96.5
cal 6 mdq	6	✓	250.0	238.1	95.2
cal 7 mdq	7	✓	500.0	517.8	103.6
cal 8 mdq	8	✓	1000.0	954.1	95.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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



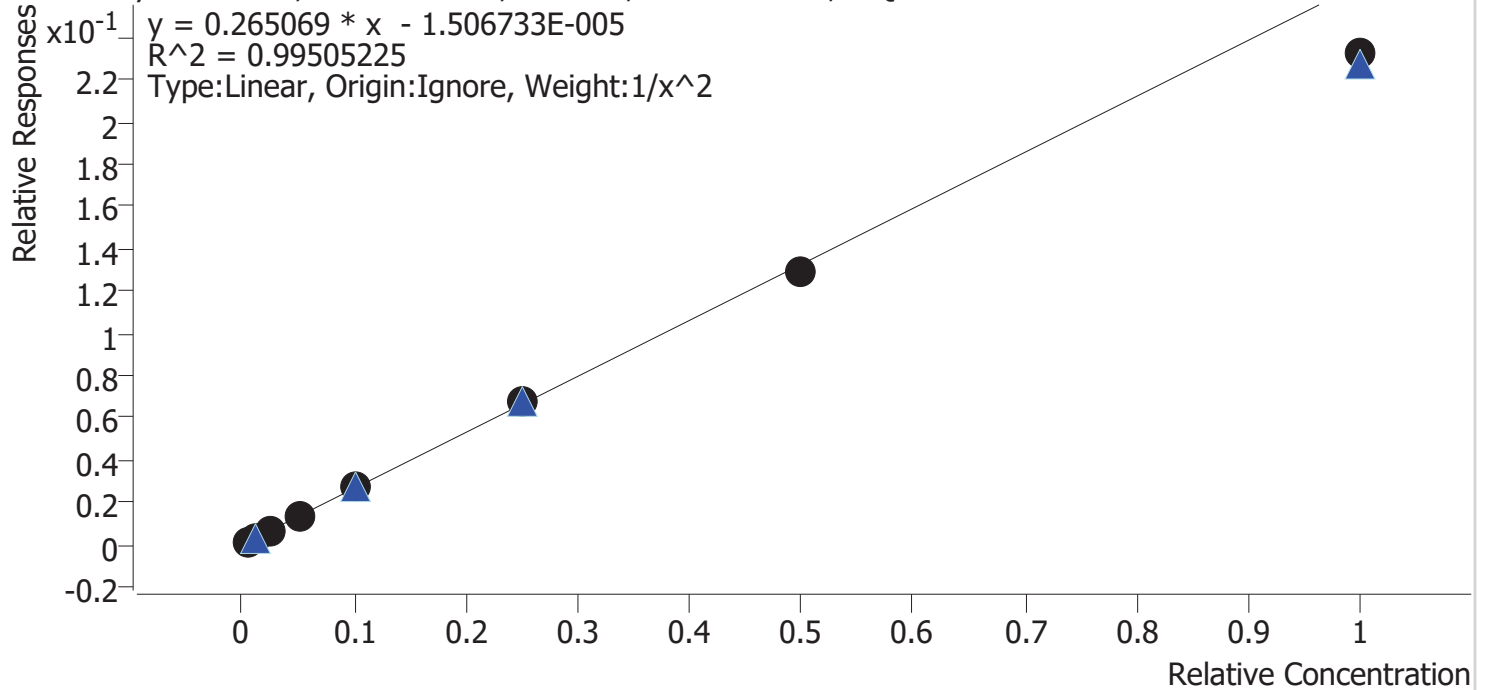
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	9.8	98.1
cal 3 mdq	3	✓	25.0	25.3	101.3
cal 4 mdq	4	✓	50.0	50.3	100.6
cal 5 mdq	5	✓	100.0	101.3	101.3
cal 6 mdq	6	✓	250.0	247.6	99.0
cal 7 mdq	7	✓	500.0	503.2	100.6
cal 8 mdq	8	✓	1000.0	984.5	98.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	96.6
cal 2 mdq	2	✓	1.0	1.0	103.5
cal 3 mdq	3	✓	2.5	2.6	105.1
cal 4 mdq	4	✓	5.0	5.3	106.4
cal 5 mdq	5	✓	10.0	10.1	101.2
cal 6 mdq	6	✓	25.0	25.7	102.7
cal 7 mdq	7	✓	50.0	48.5	96.9
cal 8 mdq	8	✓	100.0	87.6	87.6

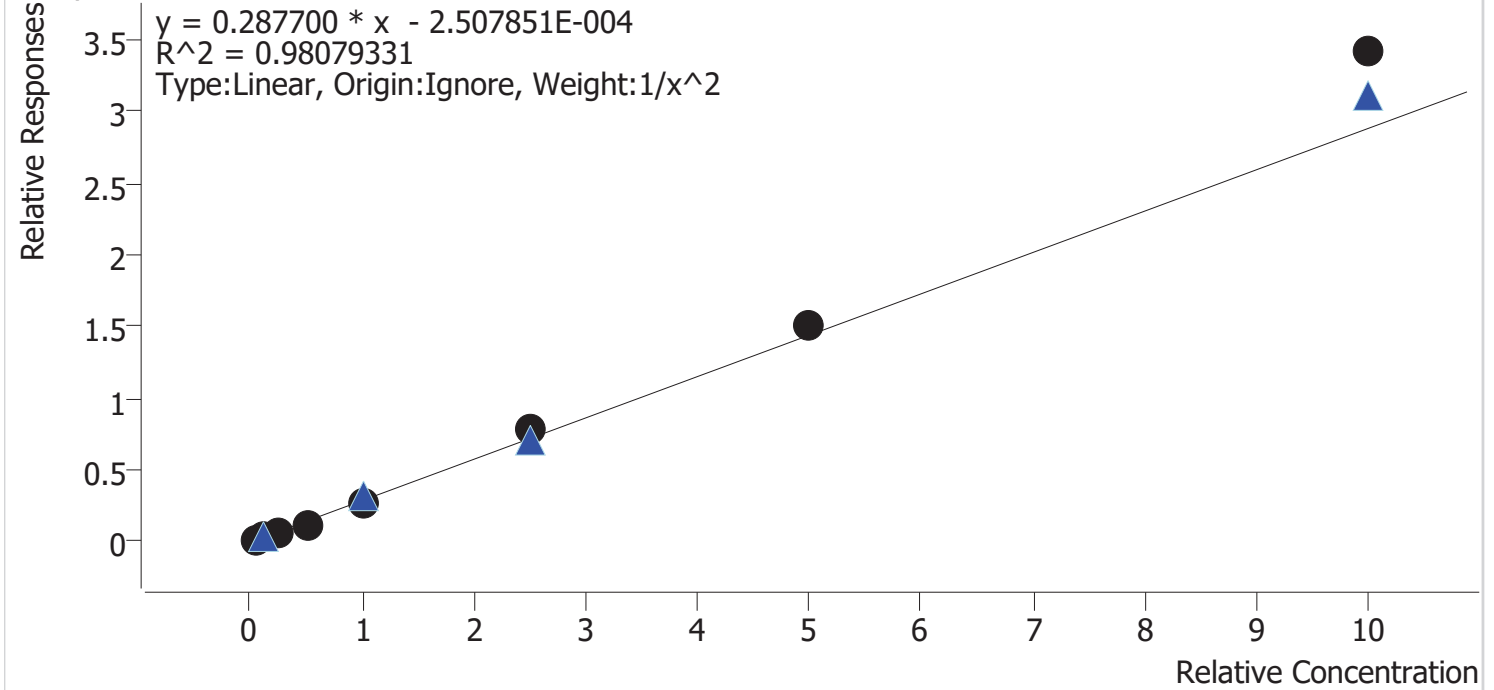


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



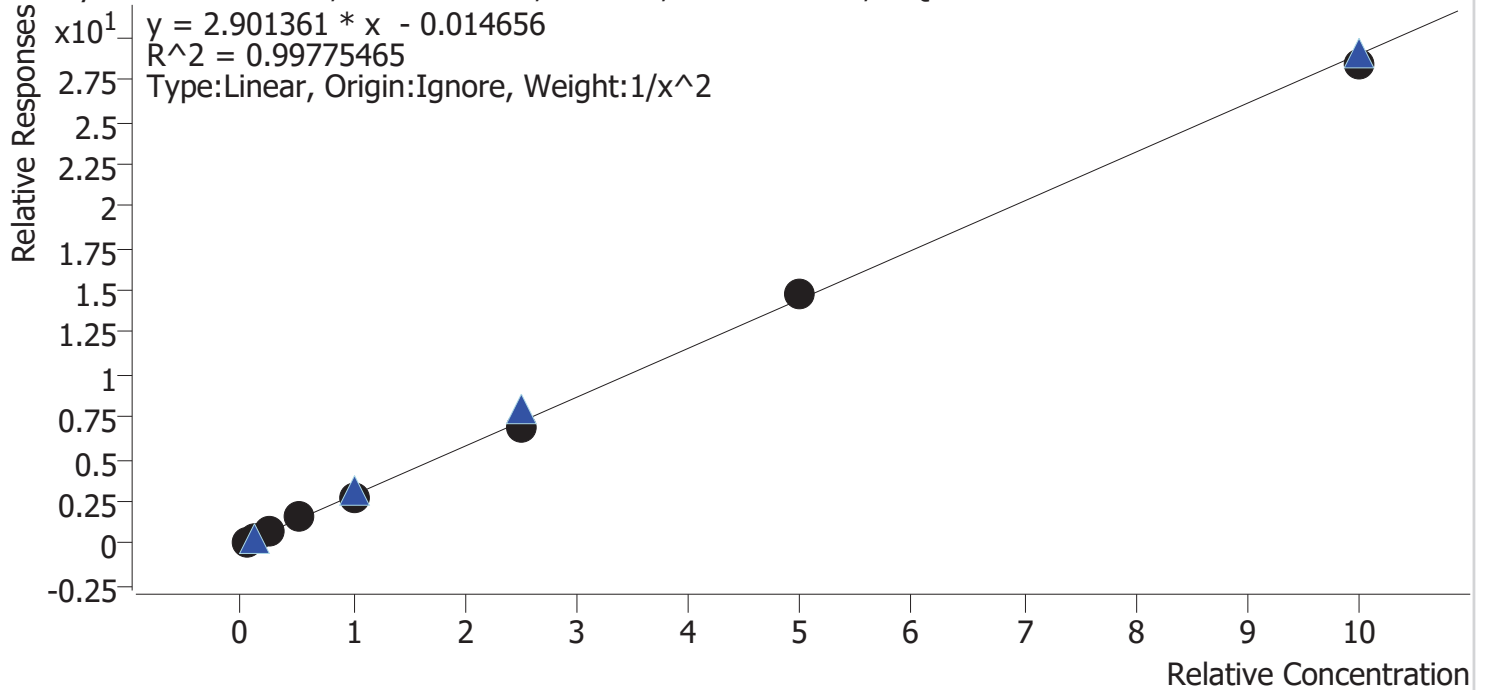
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.4	108.1
cal 2 mdq	2	✓	10.0	9.3	93.0
cal 3 mdq	3	✓	25.0	20.5	82.1
cal 4 mdq	4	✓	50.0	44.0	88.0
cal 5 mdq	5	✓	100.0	96.6	96.6
cal 6 mdq	6	✓	250.0	271.0	108.4
cal 7 mdq	7	✓	500.0	525.8	105.2
cal 8 mdq	8	✓	1000.0	1185.8	118.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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

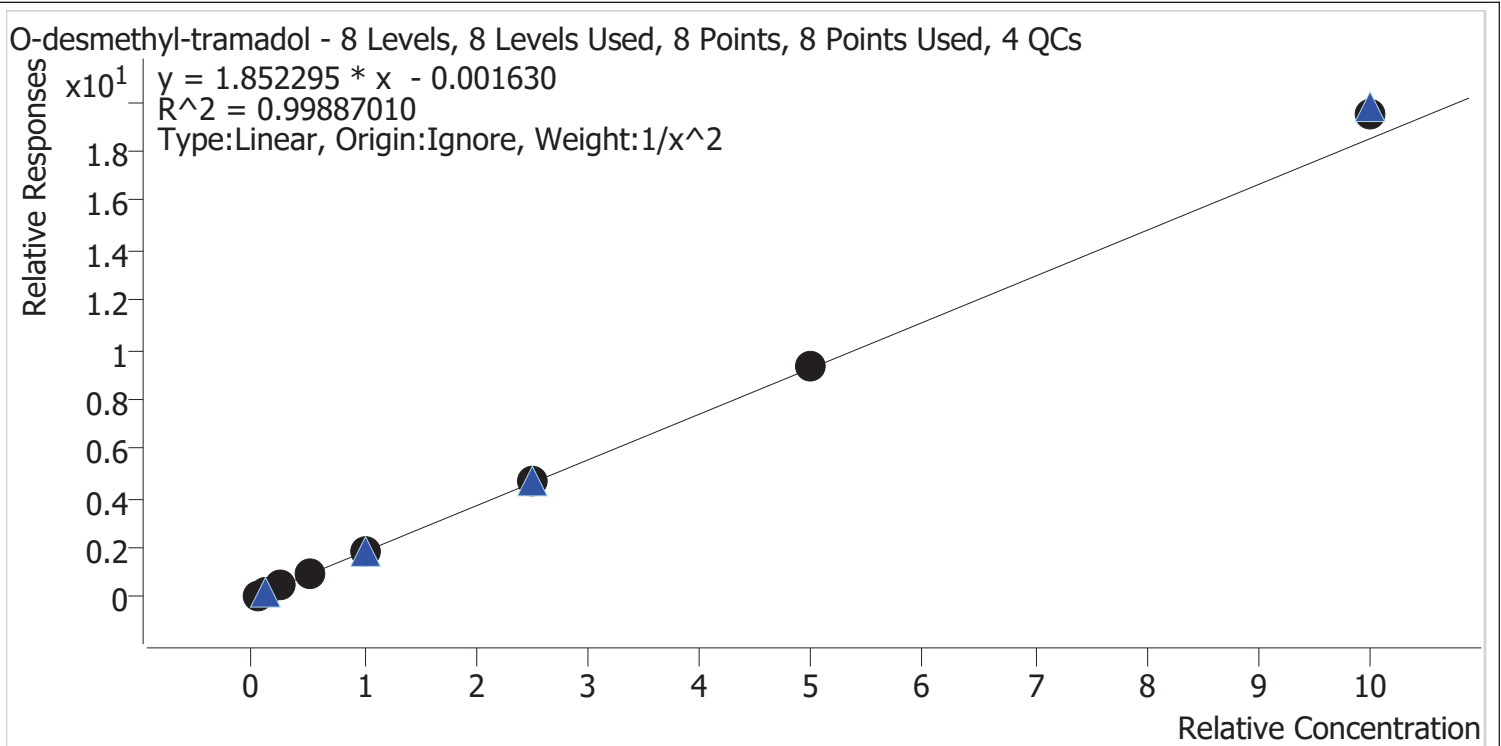


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.9
cal 2 mdq	2	✓	10.0	9.6	96.4
cal 3 mdq	3	✓	25.0	25.2	101.0
cal 4 mdq	4	✓	50.0	54.3	108.6
cal 5 mdq	5	✓	100.0	97.3	97.3
cal 6 mdq	6	✓	250.0	240.0	96.0
cal 7 mdq	7	✓	500.0	508.5	101.7
cal 8 mdq	8	✓	1000.0	980.8	98.1

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	O-desmethyl-tramadol	<b>Internal Standard</b>	O-desmethyl-tramadol-D6



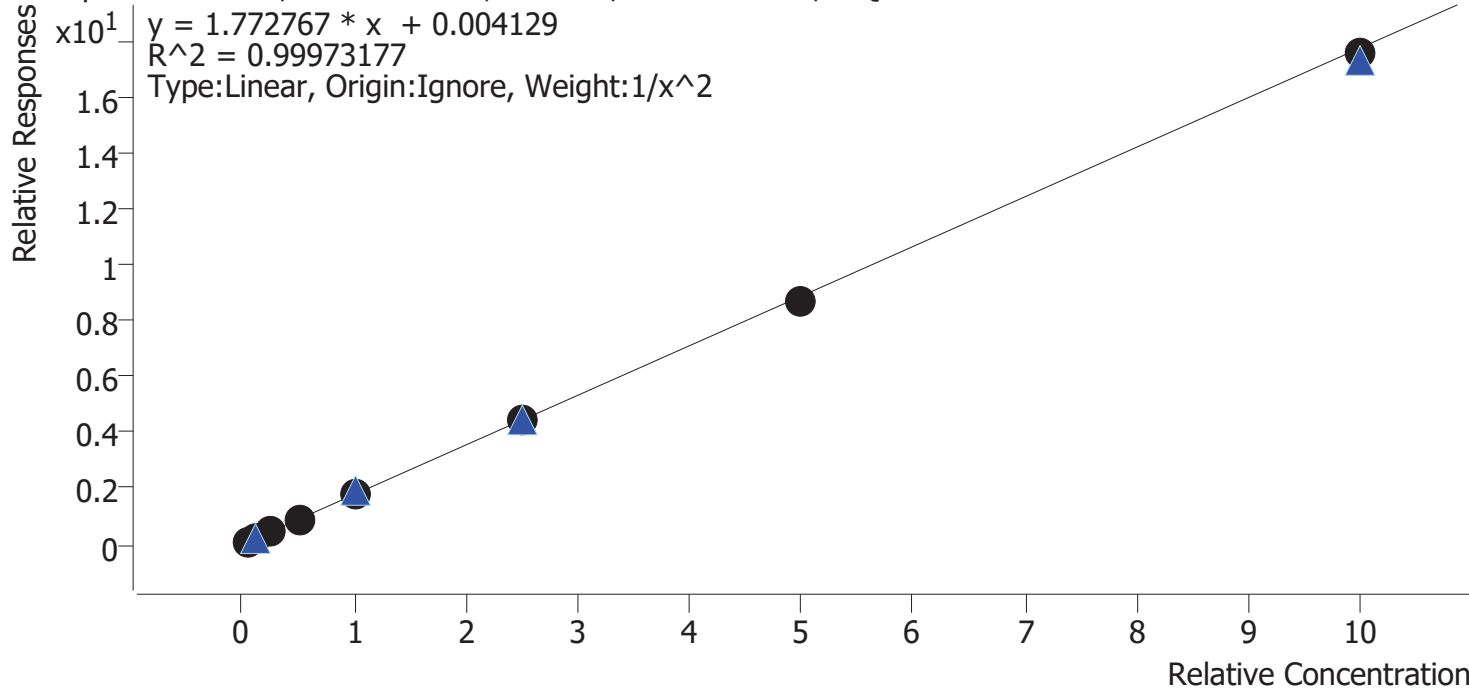
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.7
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	24.2	96.8
cal 4 mdq	4	✓	50.0	49.3	98.6
cal 5 mdq	5	✓	100.0	97.2	97.2
cal 6 mdq	6	✓	250.0	253.9	101.6
cal 7 mdq	7	✓	500.0	501.2	100.2
cal 8 mdq	8	✓	1000.0	1055.9	105.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

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



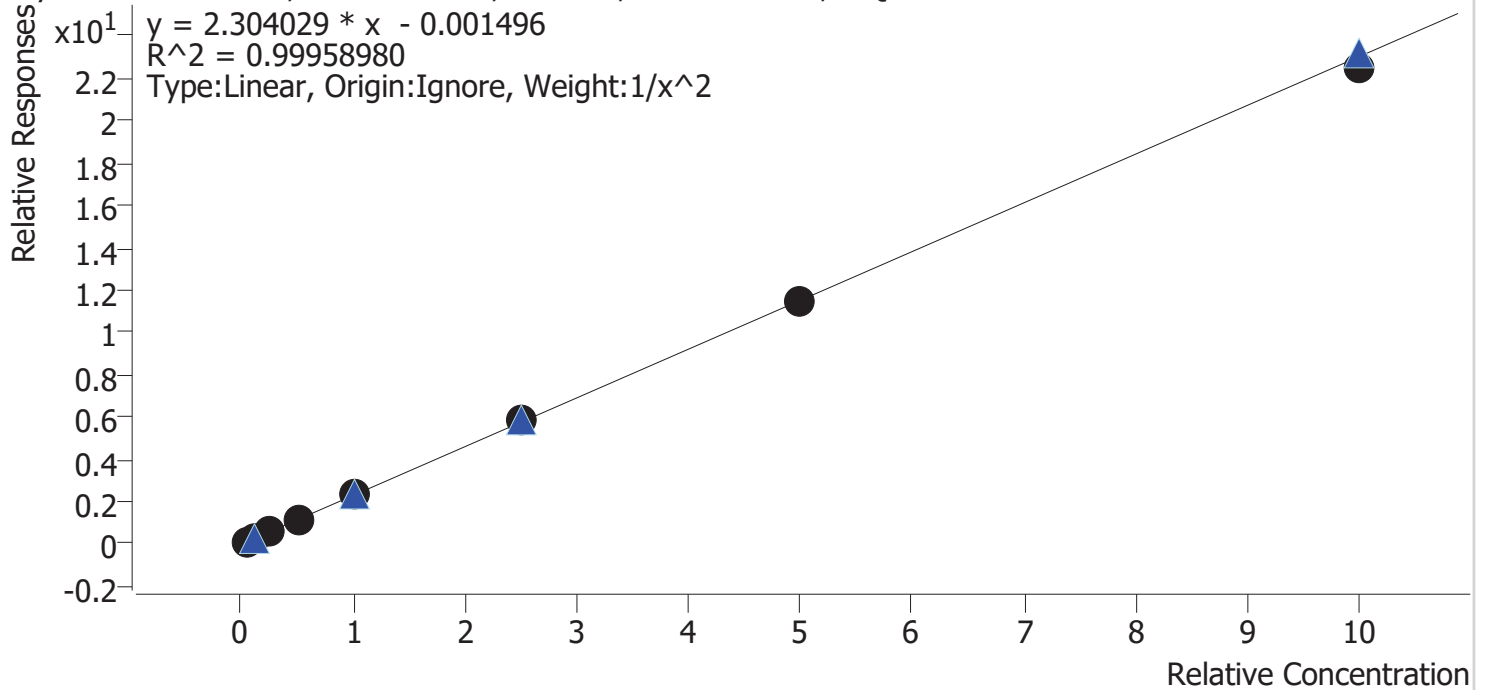
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.4
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	25.0	99.8
cal 4 mdq	4	✓	50.0	50.4	100.9
cal 5 mdq	5	✓	100.0	102.3	102.3
cal 6 mdq	6	✓	250.0	250.1	100.0
cal 7 mdq	7	✓	500.0	488.6	97.7
cal 8 mdq	8	✓	1000.0	988.7	98.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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

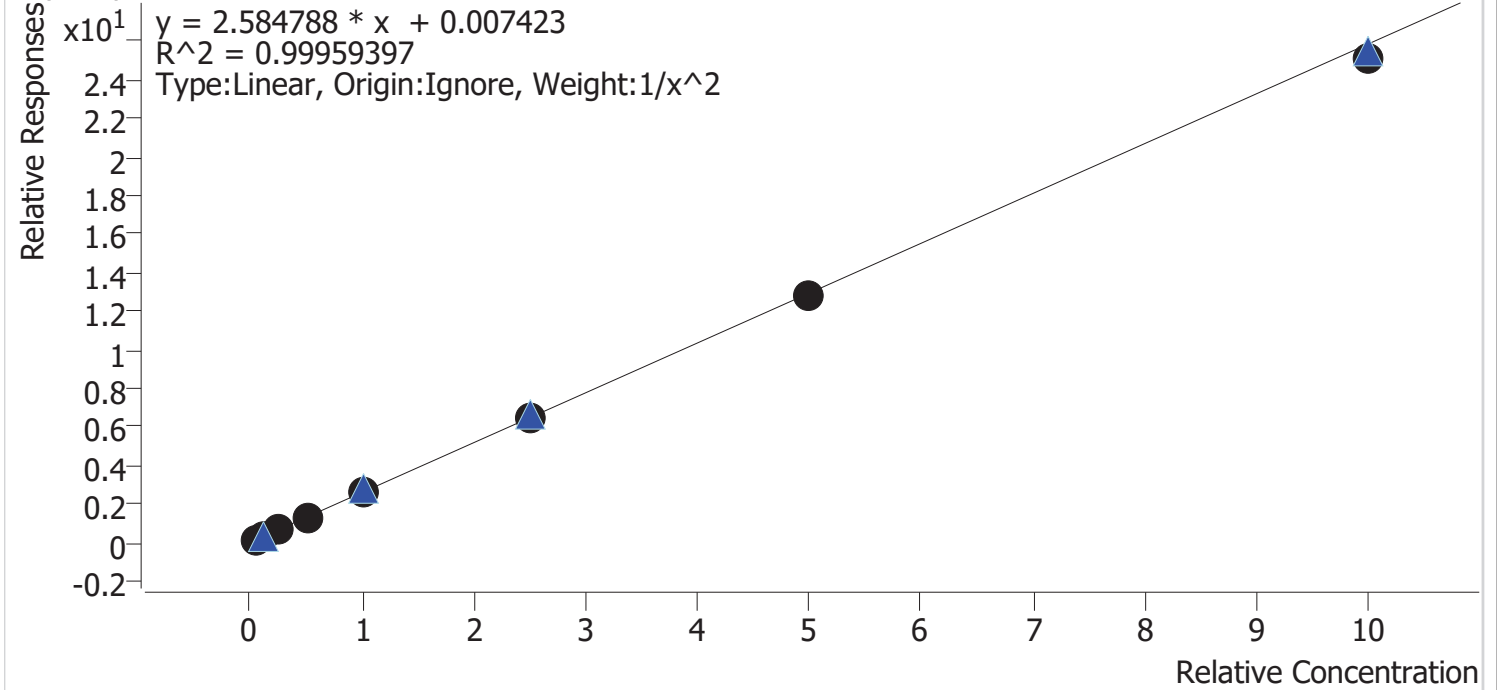


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.0
cal 2 mdq	2	✓	10.0	9.7	97.4
cal 3 mdq	3	✓	25.0	24.9	99.8
cal 4 mdq	4	✓	50.0	51.2	102.3
cal 5 mdq	5	✓	100.0	101.7	101.7
cal 6 mdq	6	✓	250.0	251.8	100.7
cal 7 mdq	7	✓	500.0	495.9	99.2
cal 8 mdq	8	✓	1000.0	978.8	97.9

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 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
cal 1 mdq	1	✓	5.0	5.0	100.2
cal 2 mdq	2	✓	10.0	9.9	98.6
cal 3 mdq	3	✓	25.0	25.3	101.0
cal 4 mdq	4	✓	50.0	51.2	102.3
cal 5 mdq	5	✓	100.0	100.6	100.6
cal 6 mdq	6	✓	250.0	252.9	101.2
cal 7 mdq	7	✓	500.0	496.1	99.2
cal 8 mdq	8	✓	1000.0	967.5	96.8

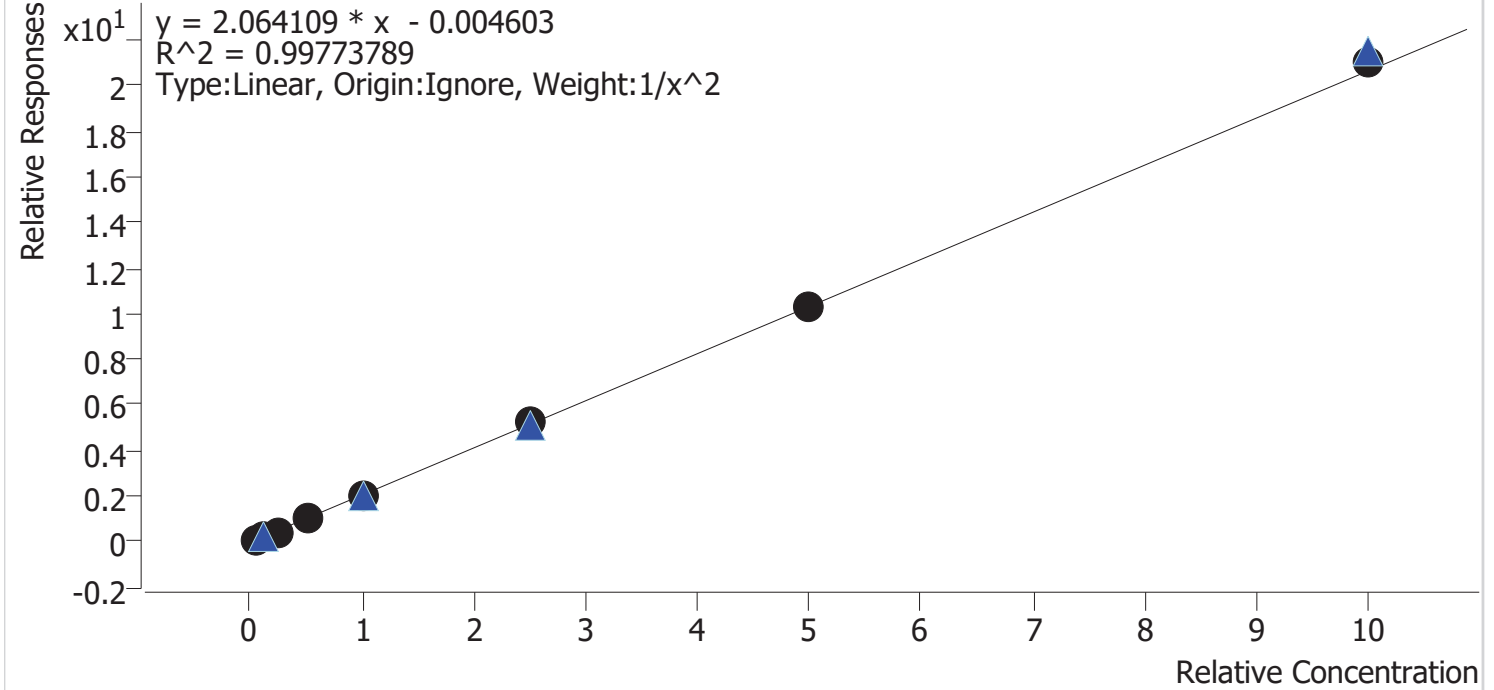


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	8/20/2020 9:49 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Promethazine	<b>Internal Standard</b>	Promethazine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.7
cal 2 mdq	2	✓	10.0	10.4	104.0
cal 3 mdq	3	✓	25.0	22.6	90.4
cal 4 mdq	4	✓	50.0	51.0	102.1
cal 5 mdq	5	✓	100.0	99.8	99.8
cal 6 mdq	6	✓	250.0	255.3	102.1
cal 7 mdq	7	✓	500.0	500.4	100.1
cal 8 mdq	8	✓	1000.0	1017.9	101.8











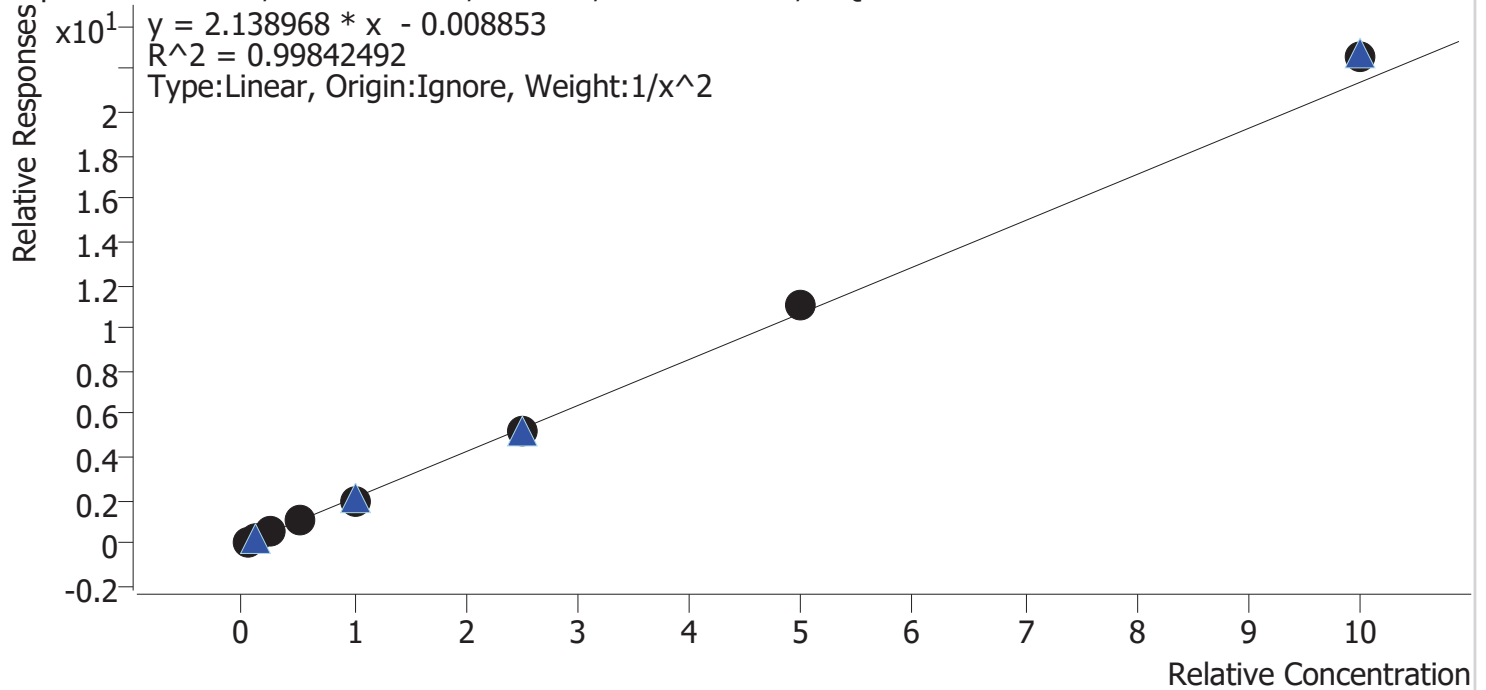


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 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
cal 1 mdq	1	✓	5.0	5.1	101.5
cal 2 mdq	2	✓	10.0	9.9	99.1
cal 3 mdq	3	✓	25.0	24.0	96.0
cal 4 mdq	4	✓	50.0	49.4	98.8
cal 5 mdq	5	✓	100.0	95.8	95.8
cal 6 mdq	6	✓	250.0	248.3	99.3
cal 7 mdq	7	✓	500.0	520.8	104.2
cal 8 mdq	8	✓	1000.0	1052.5	105.2





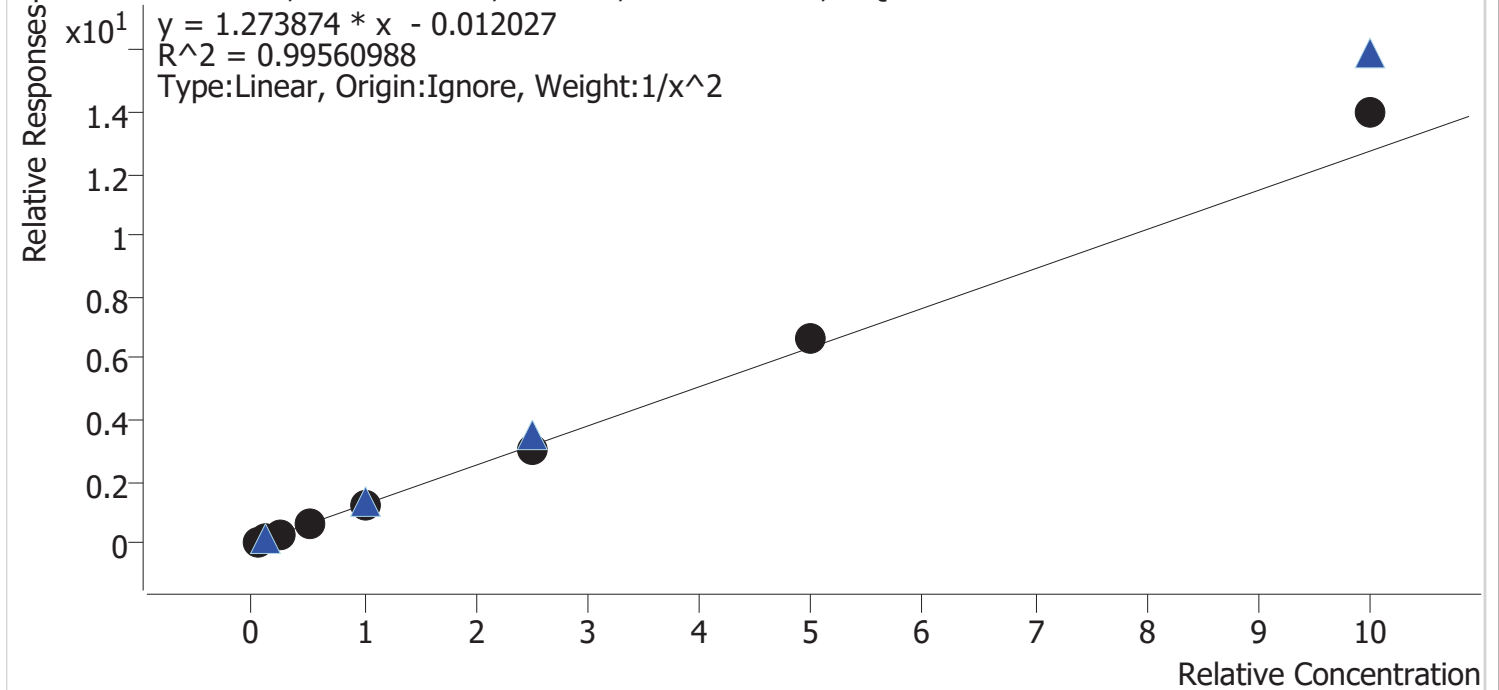


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/20/2020 9:49 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



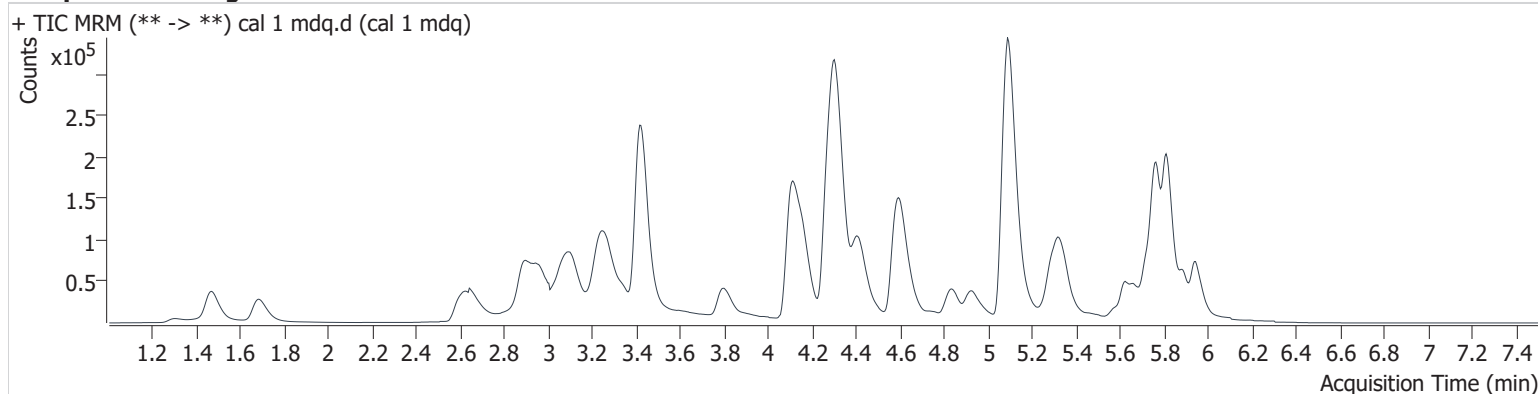
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.9
cal 2 mdq	2	✓	10.0	9.5	95.0
cal 3 mdq	3	✓	25.0	23.2	92.9
cal 4 mdq	4	✓	50.0	50.7	101.4
cal 5 mdq	5	✓	100.0	96.4	96.4
cal 6 mdq	6	✓	250.0	241.2	96.5
cal 7 mdq	7	✓	500.0	519.4	103.9
cal 8 mdq	8	✓	1000.0	1099.8	110.0

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 9:56:03 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.197	808	924.9	81.9	123.7	38054	0.495 ng/ml
7-aminoclonazepam	4.318	18431	33623.4	96.3	343.6	146015	5.106 ng/ml
a-hydroxyalprazolam	5.713	3881	1822.6	53.1	1932.7	43528	4.929 ng/ml
alpha-PHP	4.985	16065	1071.2	39.7	91.2	296551	5.197 ng/ml
alpha-PVP	4.423	33293	322.8	53.6	218.3	296551	4.975 ng/ml
Alprazolam	5.776	22044	759.9	124.5	625.3	181605	5.095 ng/ml
Amphetamine	3.120	42943	250.6	49.1	249.7	151766	5.013 ng/ml
Benzoylecgonine	3.920	1681	62.8	7.5	24.1	9759	5.228 ng/ml
Bupropion	4.852	19125	827.7	64.6	200.0	132123	4.998 ng/ml
Carisoprodol	5.731	16339	533.8	74.4	72.5	165616	5.032 ng/ml
Citalopram	5.276	5047	16.9	43.0	1613.8	49198	4.782 ng/ml
Clonazepam	5.630	24563	52.3	31.5	6596.6	72941	5.022 ng/ml
Cocaine	4.312	37898	1008.6	44.0	206.7	562803	4.975 ng/ml
Codeine	2.690	4845	762.6	115.4	1547.9	51744	5.142 ng/ml
Dextromethorphan	5.305	2938	113.4	74.1	3981.7	25204	4.913 ng/ml
Dextrorphan	4.171	8020	698.0	218.5	437.7	188845	4.997 ng/ml
Diazepam	5.947	16155	430.9	97.5	6424.5	164196	5.040 ng/ml
Dihydrocodeine	2.633	13512	224.6	60.7	1003.3	148100	5.007 ng/ml
Diphenhydramine	5.342	19211	613.9	28.5	2503.3	176241	5.032 ng/ml
Doxylamine	4.604	71398	621.7	103.4	786.6	622246	5.022 ng/ml
EDDP	5.299	6693	3810.7	241.2	338.6	149111	5.127 ng/ml
Hydrocodone	3.107	19218	1882.0	35.2	45.3	221933	4.915 ng/ml
Hydromorphone	1.692	16360	542.8	75.8	481.8	101705	5.103 ng/ml
Ketamine	4.137	35982	771.1	37.3	73.5	300000	4.982 ng/ml
Lamotrigine	4.360	3104	175.2	77.9	381.9	300000	4.674 ng/ml
Lorazepam	5.754	20497	391.9	51.3	59.1	72941	4.746 ng/ml
MDA	3.256	30950	42.8	24.1	61.8	189626	5.026 ng/ml
MDMA	3.348	22348	15389.0	80.3	506.3	41541	4.878 ng/ml
Meprobamate	4.945	19970	3029.2	30.1	235.3	111935	4.836 ng/ml
Methadone	5.672	7681	866.7	65.9	165.1	70664	5.009 ng/ml
Methamphetamine	3.288	72261	354.6	38.1	79.4	203929	4.929 ng/ml
Metoprolol	4.364	5841	535.7	87.4	93.3	300000	4.908 ng/ml
Mirtazapine	4.748	13603	1089.5	49.9	659.2	70664	5.040 ng/ml

# AM #28 Multi-Drug Quant. Results

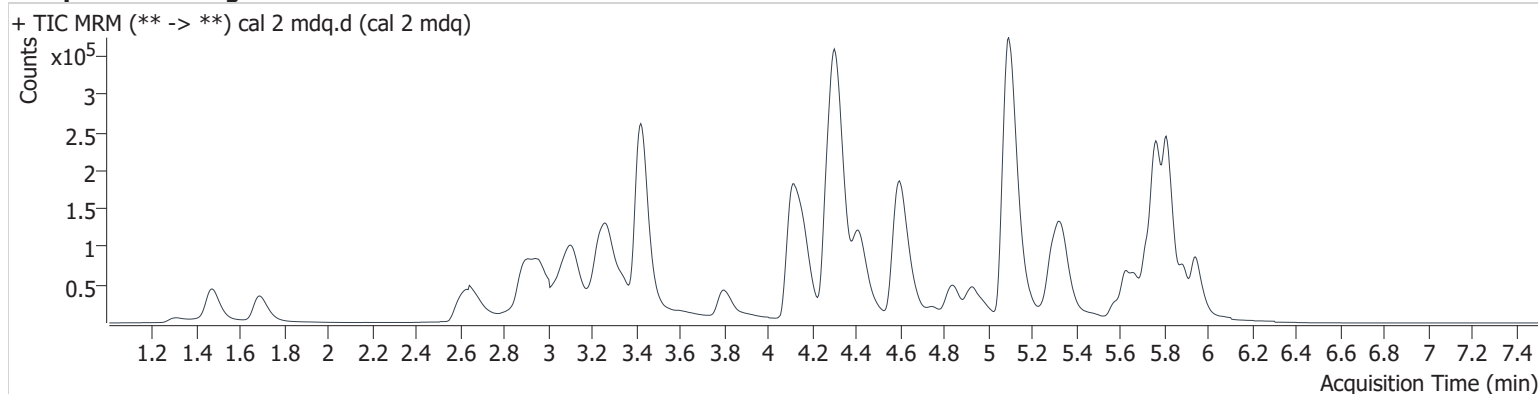
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.296	682	5.3 <b>Low</b>	33.5	190.4	7915	5.171 ng/ml
Morphine	1.311	2139	990.1	21.7	155.1	6000	4.419 ng/ml
Nordiazepam	5.891	15546	7283.9	59.6	8626.2	109721	5.030 ng/ml
Norfentanyl	4.127	572	18.8	335.4	27.4	452366	0.483 ng/ml
Norhydrocodone	3.133	921	387.5	17.4	95.4	60175	5.406 ng/ml
Noroxycodone	2.984	15983	146.2	40.3	57.9	121304	5.046 ng/ml
O-desmethyl-tramadol	3.425	81415	2273.0	6.6	309.9	879285	5.087 ng/ml
Oxazepam	5.761	29786	473.6	73.0	78.3	323057	4.968 ng/ml
Oxycodone	2.922	39502	300.9	28.1	510.1	343843	5.051 ng/ml
Oxymorphone	1.469	22607	391.6	42.9	19.3	165096	5.010 ng/ml
Phentermine	3.821	5390	29.1	10.8	11.7	153737	5.045 ng/ml
Promethazine	5.575	2279	20.7	39.5	43.4	23192	4.983 ng/ml
Quetiapine	5.603	7272	341.0	56.6	5542.0	17619	5.049 ng/ml
Temazepam	5.818	50471	1324.5	31.8	29.1	467150	5.067 ng/ml
Tramadol	4.288	95221	2035.2	3.1	32.4	814133	4.751 ng/ml
Trazodone	5.343	8421	6626.1	73.5	125.7	76566	4.951 ng/ml
Venlafaxine	5.081	35721	384.5	43.6	36.4	522058	5.087 ng/ml
Zolpidem	5.107	89473	4118.0	34.2	504.2	897009	5.077 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 10:06:53 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.207	1629	1423.7	73.3	1246.2	38131	1.017 ng/ml
7-aminoclonazepam	4.318	39112	2875.3	97.8	1115.5	164305	9.695 ng/ml
a-hydroxyalprazolam	5.702	8111	15314.7	59.6	1769.6	43999	10.128 ng/ml
alpha-PHP	4.985	34496	1057.5	39.0	387.9	316458	9.501 ng/ml
alpha-PVP	4.423	75651	1751.4	47.3	1122.1	316458	10.173 ng/ml
Alprazolam	5.781	47153	469.5	118.7	685.4	190191	9.898 ng/ml
Amphetamine	3.120	82976	181.8	50.0	311.9	155748	9.841 ng/ml
Benzoylcegonine	3.925	3002	94.8	5.9	208.6	9972	9.203 ng/ml
Bupropion	4.852	42082	633.2	60.6	240.9	142436	10.124 ng/ml
Carisoprodol	5.726	34312	1407.5	73.4	169.5	176007	9.814 ng/ml
Citalopram	5.271	12866	107.6	39.4	36.2	52232	11.264 ng/ml
Clonazepam	5.630	49149	566.9	31.1	22930.7	78905	9.701 ng/ml
Cocaine	4.317	79381	1393.1	41.5	1355.8	573302	10.247 ng/ml
Codeine	2.685	9610	247.5	122.3	370.0	53050	9.761 ng/ml
Cyclobenzaprine	5.643	6265	5066.2	8.8	746.8	20478	9.702 ng/ml
Dextromethorphan	5.310	7725	4638.8	78.8	6156.0	33674	10.539 ng/ml
Dextrorphan	4.166	16621	9481.6	212.7	29475.9	195952	10.143 ng/ml
Diazepam	5.947	33770	589.8	87.5	3378.7	169102	9.921 ng/ml
Dihydrocodeine	2.638	27241	210.8	59.2	1534.3	152790	9.889 ng/ml
Diphenhydramine	5.337	42173	1182.6	28.6	361.9	205720	10.117 ng/ml
Doxylamine	4.604	157466	7456.9	99.6	2476.3	658387	10.047 ng/ml
EDDP	5.299	14628	6816.8	241.4	394.1	170230	9.796 ng/ml
Fluoxetine	5.719	6525	276.0	7.5	276.2	18711	8.313 ng/ml
Hydrocodone	3.107	38460	727.5	35.8	280.8	224243	9.911 ng/ml
Hydromorphone	1.692	32675	720.4	74.4	2882.7	104432	9.527 ng/ml
Ketamine	4.137	70004	379.0	37.3	82.3	306360	9.924 ng/ml
Lamotrigine	4.360	6832	404.6	84.5	2721.4	306360	10.838 ng/ml
Lorazepam	5.754	41693	208.1	49.8	90.9	78905	10.234 ng/ml
MDA	3.262	62944	615.9	25.0	107.3	197915	9.945 ng/ml
MDMA	3.348	46185	151.0	85.3	706.8	41216	10.408 ng/ml
Meprobamate	4.940	40029	1282.1	30.8	725.6	126446	10.504 ng/ml
Methadone	5.672	19115	343.4	56.8	385.8	90799	10.158 ng/ml
Methamphetamine	3.283	114620	562.1	43.2	137.5	197013	17.361 ng/ml



# AM #28 Multi-Drug Quant. Results

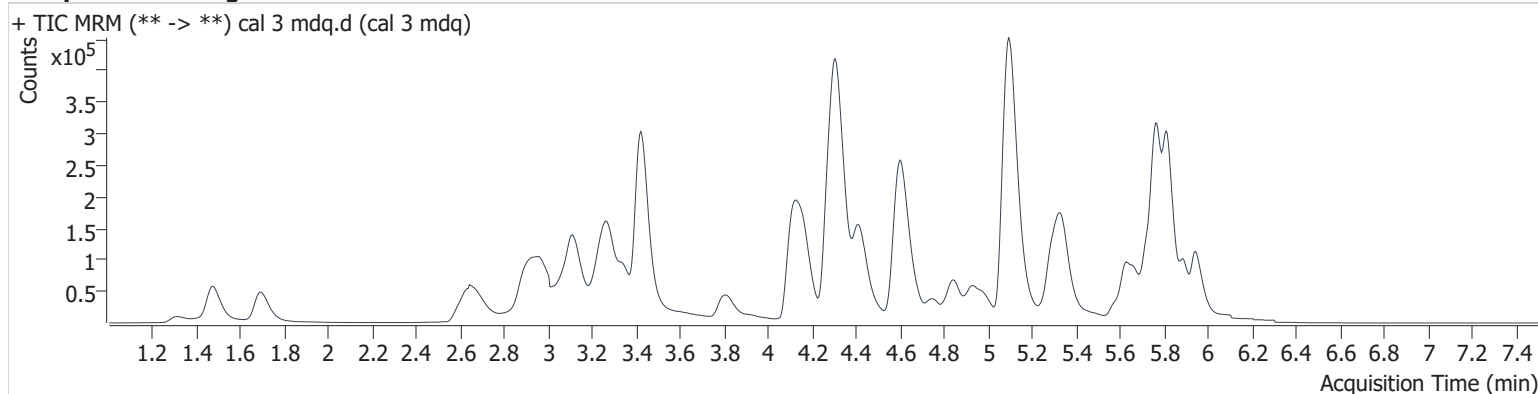
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Metoprolol	4.364	11268	1288.9	90.7	448.8	306360	9.911 ng/ml
Mirtazapine	4.748	29576	230.0	48.9	245.1	90799	9.696 ng/ml
Mitragynine	5.302	2445	2327.6	28.7	86.5	18711	9.388 ng/ml
Morphine	1.311	4602	380.3	21.2	129.7	4828	12.481 ng/ml
Nordiazepam	5.891	31730	37373.7	59.5	12955.0	116358	9.809 ng/ml
Norfentanyl	4.117	1293	64.8	305.3	75.2	473559	1.035 ng/ml
Norhydrocodone	3.128	1669	53.3	14.9	∞	62939	9.303 ng/ml
Noroxycodone	2.979	32967	263.5	36.5	274.1	124329	9.644 ng/ml
O-desmethyl-tramadol	3.425	159928	14041.4	6.4	530.6	886862	9.823 ng/ml
Oxazepam	5.761	60830	963.5	74.1	347.4	332077	10.100 ng/ml
Oxycodone	2.917	78703	892.6	27.5	906.7	352973	9.742 ng/ml
Oxymorphone	1.474	45060	2326.0	44.4	61.2	171735	9.864 ng/ml
Phentermine	3.826	10983	21.3	8.6	25.3	153255	10.255 ng/ml
Promethazine	5.575	9222	192.7	34.0	29.1	43902	10.400 ng/ml
Quetiapine	5.608	14903	1866.0	57.2	428.7	19808	9.358 ng/ml
Temazepam	5.818	102607	1241.6	31.1	105.8	486543	9.891 ng/ml
Tramadol	4.288	193827	10523.1	3.1	54.6	825159	10.782 ng/ml
Trazodone	5.343	22193	194.9	65.8	946.3	92781	10.461 ng/ml
Venlafaxine	5.081	74343	6184.5	43.3	176.5	529662	9.722 ng/ml
Zolpidem	5.107	182389	2749.0	33.7	1328.0	898364	9.906 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 10:17:41 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.207	3661	1875.1	78.9	1887.1	34697	2.541 ng/ml
7-aminoclonazepam	4.318	79073	2396.3	98.7	1812.1	135040	23.956 ng/ml
a-hydroxyalprazolam	5.707	18714	2329.2	60.3	8547.5	41029	24.974 ng/ml
alpha-PHP	4.985	83710	2026.9	38.5	956.1	294938	23.224 ng/ml
alpha-PVP	4.418	173653	4604.2	47.1	2170.0	294938	24.508 ng/ml
Alprazolam	5.776	106821	990.2	111.6	509.7	175438	23.599 ng/ml
Amphetamine	3.120	186980	1358.8	48.6	254.5	141612	25.061 ng/ml
Benzoylcegonine	3.925	7128	253.4	7.2	94.0	8803	24.914 ng/ml
Buprenorphine	5.841	518	386.2	15.1	84.8	5885	3.547 ng/ml
Bupropion	4.852	94600	3890.3	62.8	1450.8	134748	23.957 ng/ml
Carisoprodol	5.731	80988	2128.3	70.2	235.3	158884	25.448 ng/ml
Citalopram	5.266	26924	255.8	42.6	189.9	54260	22.533 ng/ml
Clonazepam	5.625	109197	317.5	30.3	27070.0	67490	25.976 ng/ml
Cocaine	4.317	171899	221.2	46.2	589.9	529485	24.048 ng/ml
Codeine	2.690	22379	503.3	117.9	13627.3	50466	23.608 ng/ml
Cyclobenzaprine	5.648	14079	108.8	10.5	402.9	18300	25.343 ng/ml
Dextromethorphan	5.310	18096	122.5	74.8	11636.5	35905	24.230 ng/ml
Dextrorphan	4.171	40249	1142.2	212.8	5086.2	197433	24.608 ng/ml
Diazepam	5.947	76074	2278.3	92.7	1976.8	153355	24.199 ng/ml
Dihydrocodeine	2.638	63436	2100.2	57.1	964.3	142207	24.905 ng/ml
Diphenhydramine	5.337	96077	864.5	27.8	505.1	212257	23.235 ng/ml
Doxylamine	4.604	370153	14004.0	98.9	50361.7	622489	24.402 ng/ml
EDDP	5.299	35771	34796.6	239.1	314.7	177074	22.999 ng/ml
Fluoxetine	5.719	11502	9432.0	6.9	891.5	13885	27.509 ng/ml
Hydrocodone	3.107	90769	704.6	35.0	34.8	198138	26.773 ng/ml
Hydromorphone	1.692	79107	916.4	72.8	3737.1	91199	25.663 ng/ml
Ketamine	4.137	159001	3762.6	38.1	452.6	278519	25.509 ng/ml
Lamotrigine	4.360	15010	1238.9	77.4	3718.6	278519	27.127 ng/ml
Lorazepam	5.749	91660	1362.1	50.6	203.2	67490	28.639 ng/ml
MDA	3.262	146829	1453.7	19.3	396.8	191109	24.253 ng/ml
MDMA	3.348	111645	80016.9	86.8	231.8	41099	25.555 ng/ml
Meprobamate	4.940	78844	471.5	30.9	105.7	116147	25.364 ng/ml
Methadone	5.672	44691	54183.3	58.4	2077.7	93150	23.773 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.283	139298	∞	42.3	∞	184265	26.882 ng/ml
Metoprolol	4.364	27011	229.8	88.2	2407.7	278519	27.311 ng/ml
Mirtazapine	4.748	73750	44226.2	49.2	1069.0	93150	25.982 ng/ml
Mitragynine	5.307	4599	5420.6	36.7	2096.0	13885	28.375 ng/ml
Morphine	1.311	10030	1396.6	21.8	982.4	5412	24.646 ng/ml
Nordiazepam	5.891	72267	8952.9	60.0	53135.4	103570	25.317 ng/ml
Norfentanyl	4.127	2996	441.1	278.2	117.1	431116	2.627 ng/ml
Norhydrocodone	3.133	3249	50.0	18.8	56.3	55241	20.530 ng/ml
Noroxycodone	2.979	79738	1167.3	37.5	654.9	111074	25.248 ng/ml
O-desmethyl-tramadol	3.425	368774	19798.2	6.4	1379.1	825569	24.204 ng/ml
Oxazepam	5.761	134858	1502.3	73.4	136.7	302036	24.953 ng/ml
Oxycodone	2.917	182624	1763.3	29.1	514.4	318617	24.942 ng/ml
Oxymorphone	1.474	103242	977.2	43.7	8154.6	156342	25.261 ng/ml
Phentermine	3.831	23964	64.5	9.8	46.7	148091	23.088 ng/ml
Promethazine	5.580	20869	15.9	35.7	20.7	45163	22.610 ng/ml
Quetiapine	5.603	40442	27130.6	54.8	22317.6	18794	27.113 ng/ml
Temazepam	5.823	229155	3843.4	30.9	298.8	447465	24.018 ng/ml
Tramadol	4.288	404346	55973.6	3.2	135.0	768723	25.668 ng/ml
Trazodone	5.349	52701	1618.5	80.1	948.8	95143	23.882 ng/ml
Venlafaxine	5.081	194434	11120.6	41.9	679.7	510208	25.233 ng/ml
Zolpidem	5.107	432835	2356.1	32.3	10037.6	857937	24.000 ng/ml

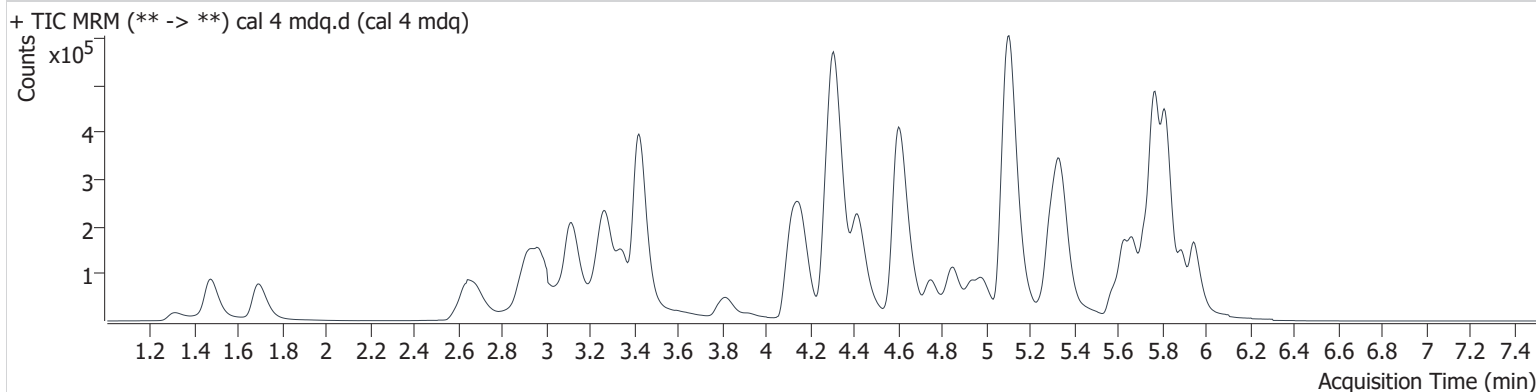


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

**Instrument** 69679 **Data File** cal 4 mdq.d  
**Type** Cal **Sample** cal 4 mdq  
**Acq. Method** MDQP1 5-27-20.m **Operator** Anne Nord  
**Sample Position** P2-D5 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 8/19/2020 10:28:29 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.202	7656	184.8	76.7	305.0	36925	5.012 ng/ml
7-aminoclonazepam	4.318	173490	22107.5	93.7	5558.3	140489	50.605 ng/ml
a-hydroxyalprazolam	5.707	37605	1890.1	56.8	20945.1	38497	53.418 ng/ml
alpha-PHP	4.990	184994	1373.0	40.3	1146.4	291922	50.691 ng/ml
alpha-PVP	4.423	356645	1383.9	48.5	4429.7	291922	50.453 ng/ml
Alprazolam	5.776	213791	2061.8	115.6	4210.1	168156	48.746 ng/ml
Amphetamine	3.120	332508	1310.9	48.7	1431.3	127325	50.013 ng/ml
Benzoylcegonine	3.925	13817	818.4	7.2	69.8	8968	47.489 ng/ml
Buprenorphine	5.856	1386	30.0	19.1	141.6	10852	4.992 ng/ml
Bupropion	4.852	211904	1821.0	64.2	1893.6	139479	51.758 ng/ml
Carisoprodol	5.726	157388	2453.8	71.0	987.0	157175	49.865 ng/ml
Citalopram	5.271	83773	236.2	38.7	32859.6	74882	50.606 ng/ml
Clonazepam	5.625	216489	4557.8	31.4	824.9	69025	50.808 ng/ml
Cocaine	4.317	350457	138238.4	44.7	4908.6	513889	50.535 ng/ml
Codeine	2.690	43583	573.6	122.8	4123.2	50545	45.715 ng/ml
Cyclobenzaprine	5.648	51771	41778.8	9.0	72.7	30467	56.730 ng/ml
Dextromethorphan	5.310	53873	9040.2	83.7	389.2	55671	47.350 ng/ml
Dextrorphan	4.166	79880	170131.6	215.9	9827.0	196993	49.110 ng/ml
Diazepam	5.947	162079	1988.3	87.2	18136.8	154440	50.862 ng/ml
Dihydrocodeine	2.638	128429	4313.0	58.6	4283.6	137536	52.253 ng/ml
Diphenhydramine	5.337	286608	6155.4	28.1	2502.6	295943	50.559 ng/ml
Doxylamine	4.604	760466	1731.9	99.5	31353.3	625919	49.453 ng/ml
EDDP	5.299	108624	62663.9	228.3	196752.3	242702	50.929 ng/ml
Fluoxetine	5.724	42615	1391.1	7.9	1522.6	29764	51.658 ng/ml
Hydrocodone	3.107	182274	920.0	35.9	1871.2	200696	53.254 ng/ml
Hydromorphone	1.692	161732	5974.5	69.6	6479.3	95911	49.490 ng/ml
Ketamine	4.137	320069	6195.2	38.4	650.1	280221	51.516 ng/ml
Lamotrigine	4.360	29516	573.0	83.3	5799.1	280221	53.650 ng/ml
Lorazepam	5.754	177706	729.2	51.8	665.6	69025	55.620 ng/ml
MDA	3.256	310714	2330.1	23.4	17.7	193138	50.960 ng/ml
MDMA	3.348	231733	232022.9	84.0	6467.3	43767	50.024 ng/ml
Meprobamate	4.940	154106	2640.3	29.4	77.6	115892	52.066 ng/ml
Methadone	5.672	139516	1629.3	55.3	888.6	138728	50.367 ng/ml



# AM #28 Multi-Drug Quant. Results

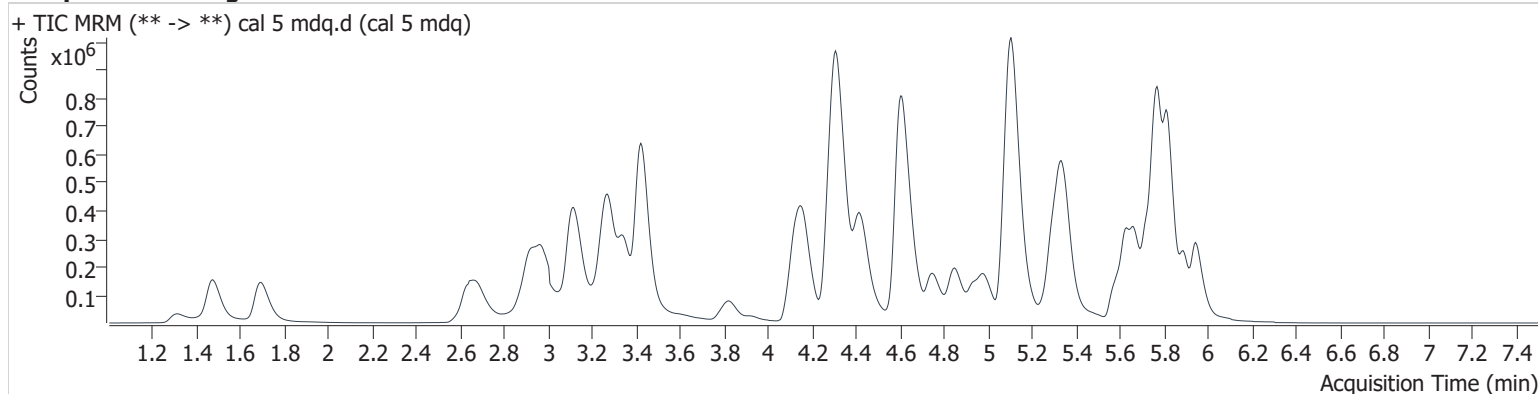
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.283	199215	862.0	42.4	297.2	166690	50.886 ng/ml
Metoprolol	4.364	51203	15479.7	95.0	701.3	280221	52.092 ng/ml
Mirtazapine	4.748	211885	139015.1	46.5	1340.5	138728	51.689 ng/ml
Mitragynine	5.302	18381	527.4	38.6	7059.3	29764	55.489 ng/ml
Morphine	1.311	20843	950.1	23.9	1297.1	5731	48.747 ng/ml
Nordiazepam	5.896	144112	39031.2	61.9	115350.6	104190	50.323 ng/ml
Norfentanyl	4.122	6149	538.6	274.9	147.5	436613	5.318 ng/ml
Norhydrocodone	3.128	6870	448.5	16.9	100.1	54367	44.008 ng/ml
Noroxycodone	2.979	156451	2053.4	41.4	656.3	100233	54.303 ng/ml
O-desmethyl-tramadol	3.425	741328	18917.5	6.4	990.2	813083	49.311 ng/ml
Oxazepam	5.761	268202	3560.4	75.5	852.1	298590	50.435 ng/ml
Oxycodone	2.922	377590	2144.3	29.3	611.8	320693	51.168 ng/ml
Oxymorphone	1.474	212201	4532.2	43.9	4528.3	159541	51.171 ng/ml
Phentermine	3.831	45652	157.3	10.7	83.7	140851	46.191 ng/ml
Promethazine	5.575	84023	409.2	36.4	296.5	80107	51.038 ng/ml
Quetiapine	5.603	97829	71678.3	53.7	41346.5	23528	52.564 ng/ml
Temazepam	5.818	477821	4527.8	30.6	803.2	449304	49.877 ng/ml
Tramadol	4.288	787675	12636.0	3.4	211.7	751795	52.349 ng/ml
Trazodone	5.349	153754	117980.6	68.7	955.0	136194	48.403 ng/ml
Venlafaxine	5.087	359202	90684.2	42.4	2140.5	490396	47.873 ng/ml
Zolpidem	5.112	884191	3789.5	32.6	2838.8	843694	49.409 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 10:39:16 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.202	15879	16713.8	79.5	669.8	39046	9.850 ng/ml
7-aminoclonazepam	4.318	389907	743.5	94.0	11507.9	156537	102.147 ng/ml
a-hydroxyalprazolam	5.702	75475	648.4	57.5	835.1	40264	102.454 ng/ml
alpha-PHP	4.990	384350	52494.8	38.6	5364.5	315951	96.439 ng/ml
alpha-PVP	4.423	759398	1090.0	48.7	5235.2	315951	98.898 ng/ml
Alprazolam	5.776	440773	7392.6	115.7	451.6	170912	98.379 ng/ml
Amphetamine	3.120	898878	2491.9	44.4	2332.0	159399	108.523 ng/ml
Benzoylcegonine	3.920	29962	882.5	7.4	72.3	9516	97.147 ng/ml
Buprenorphine	5.846	2698	121.0	15.4	340.3	9948	10.212 ng/ml
Bupropion	4.852	414301	6667.5	63.7	3819.7	144144	97.855 ng/ml
Carisoprodol	5.726	326902	5175.1	69.1	1601.0	163924	99.176 ng/ml
Citalopram	5.271	186581	99.7	38.4	42391.0	86547	97.375 ng/ml
Clonazepam	5.625	460454	12946.9	31.1	454.4	72586	103.261 ng/ml
Cocaine	4.317	761389	554.6	44.9	39528.1	571725	98.699 ng/ml
Codeine	2.685	98974	4975.0	115.7	1509.9	50886	102.869 ng/ml
Cyclobenzaprine	5.643	158239	105444.7	8.5	479.3	53013	100.126 ng/ml
Dextromethorphan	5.310	133008	112291.5	77.3	3100.9	64024	102.682 ng/ml
Dextrorphan	4.166	167265	16195.4	222.9	20594.7	213602	94.990 ng/ml
Diazepam	5.947	348195	7473.1	87.4	2894.6	165866	101.440 ng/ml
Dihydrocodeine	2.638	281097	5645.7	58.7	4397.3	155725	101.111 ng/ml
Diphenhydramine	5.337	624855	33950.4	29.0	1586.3	325448	100.962 ng/ml
Doxylamine	4.604	1763986	32652.6	97.5	21761.3	731327	97.796 ng/ml
EDDP	5.299	198254	193233.8	228.2	12577.6	229665	98.209 ng/ml
Fluoxetine	5.719	126110	3112.2	7.8	6013.6	46894	101.986 ng/ml
Hydrocodone	3.107	410251	672.6	34.8	1286.5	232696	103.546 ng/ml
Hydromorphone	1.692	344863	8504.2	73.1	1906.8	105005	95.989 ng/ml
Ketamine	4.137	694474	9524.4	38.7	783.5	311757	100.924 ng/ml
Lamotrigine	4.365	62230	1400.3	87.0	3211.6	311757	102.261 ng/ml
Lorazepam	5.754	348515	5257.9	50.6	894.8	72586	105.017 ng/ml
MDA	3.256	697556	2226.5	23.2	1849.5	217831	101.596 ng/ml
MDMA	3.348	508214	2460.2	85.9	635.1	48403	99.425 ng/ml
Meprobamate	4.945	317401	169823.0	30.2	5190.9	125290	101.439 ng/ml
Methadone	5.672	320030	3880.5	54.6	203.0	163642	98.407 ng/ml



# AM #28 Multi-Drug Quant. Results

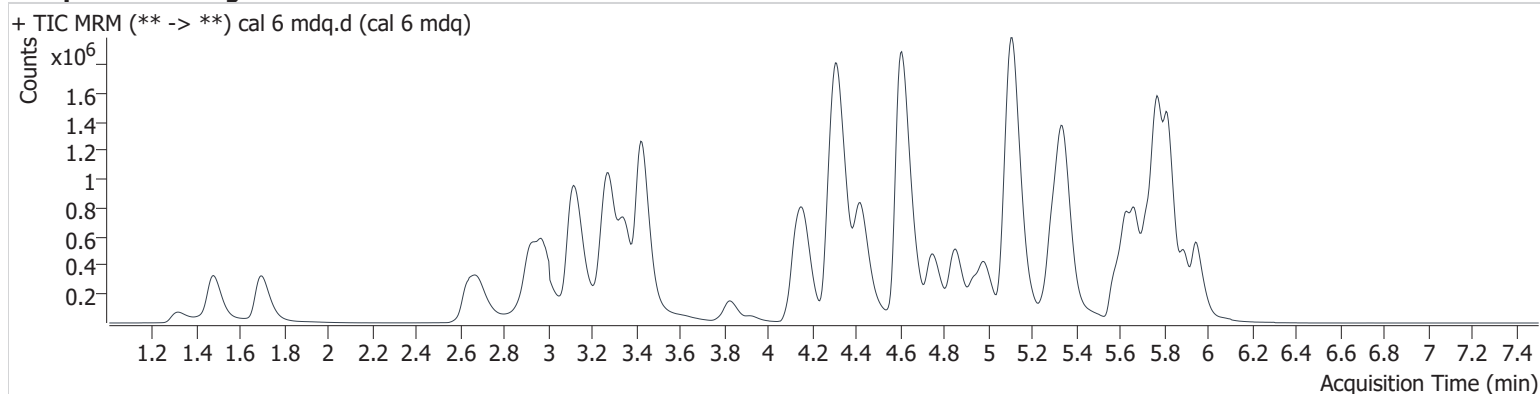
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.283	456277	469.1	42.8	∞	230979	93.537 ng/ml
Metoprolol	4.364	112427	6612.8	92.9	13171.1	311757	103.510 ng/ml
Mirtazapine	4.743	451519	1601.5	47.6	1826.4	163642	94.738 ng/ml
Mitragynine	5.302	46716	927.7	29.5	17844.7	46894	91.340 ng/ml
Morphine	1.311	40438	3981.2	25.3	1376.3	5640	96.492 ng/ml
Nordiazepam	5.891	305007	233730.9	60.8	583419.8	109742	101.259 ng/ml
Norfentanyl	4.122	13202	1135.0	300.5	801.5	492651	10.116 ng/ml
Norhydrocodone	3.128	15384	348.4	15.3	113.1	55430	96.553 ng/ml
Noroxycodone	2.974	348376	2681.2	40.9	1765.8	124106	97.256 ng/ml
O-desmethyl-tramadol	3.425	1601721	95148.5	6.3	4922.9	890333	97.211 ng/ml
Oxazepam	5.761	547433	9736.5	72.6	1166.4	301056	102.340 ng/ml
Oxycodone	2.917	824655	3505.3	29.4	2135.1	352235	101.679 ng/ml
Oxymorphone	1.469	445285	12334.2	44.5	8740.2	170712	100.626 ng/ml
Phentermine	3.831	119406	330.6	9.1	190.9	170479	99.756 ng/ml
Promethazine	5.575	240395	267.3	36.9	2542.3	116910	99.842 ng/ml
Quetiapine	5.603	220802	5970.9	55.4	2857.8	27409	102.014 ng/ml
Temazepam	5.818	996741	3618.9	30.8	731.3	468643	99.751 ng/ml
Tramadol	4.288	1725284	107968.7	3.3	568.8	847531	102.870 ng/ml
Trazodone	5.349	332455	1860.4	74.8	411.5	146903	96.768 ng/ml
Venlafaxine	5.081	843678	79303.6	42.1	3577.6	563924	97.073 ng/ml
Zolpidem	5.112	1906307	3273.2	32.0	2416.4	933853	95.849 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 6 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 6 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 10:50:05 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.202	40742	43869.5	78.8	1575.8	39740	24.863 ng/ml
7-aminoclonazepam	4.318	864052	7478.9	92.1	9466.9	140641	252.055 ng/ml
a-hydroxyalprazolam	5.702	165891	502.7	59.2	2402.8	34894	259.757 ng/ml
alpha-PHP	4.990	956126	48854.0	39.5	1245.0	312420	241.186 ng/ml
alpha-PVP	4.423	1880547	91019.5	49.2	10297.8	312420	247.114 ng/ml
Alprazolam	5.781	1002929	1938.7	113.5	9538.8	151949	251.027 ng/ml
Amphetamine	3.120	2349094	8168.9	47.0	11487.4	170153	266.344 ng/ml
Benzoylcegonine	3.925	76749	4786.4	7.4	59.6	9059	261.551 ng/ml
Buprenorphine	5.851	7493	386.0	17.4	650.8	11708	23.636 ng/ml
Bupropion	4.852	1215105	99479.7	64.9	14101.7	165278	250.187 ng/ml
Carisoprodol	5.726	747554	11141.7	68.3	6758.1	150180	247.351 ng/ml
Citalopram	5.266	517096	4870.7	41.8	407.4	94523	246.856 ng/ml
Clonazepam	5.625	1024117	90908.5	31.8	4701.2	67506	247.627 ng/ml
Cocaine	4.317	1799025	898852.9	44.9	72832.7	539426	247.196 ng/ml
Codeine	2.685	241637	922.2	112.7	6481.1	46942	271.923 ng/ml
Cyclobenzaprine	5.643	476844	22107.8	8.8	353.7	66351	241.948 ng/ml
Dextromethorphan	5.310	374476	330788.1	78.1	254937.7	71352	260.779 ng/ml
Dextrorphan	4.166	416084	269185.0	219.8	1623.9	196257	257.460 ng/ml
Diazepam	5.947	805374	66792.6	87.3	4638.7	155337	250.093 ng/ml
Dihydrocodeine	2.638	696005	13678.3	58.9	20022.9	155384	251.065 ng/ml
Diphenhydramine	5.337	1737454	58873.4	30.3	52826.0	368308	249.145 ng/ml
Doxylamine	4.604	4504139	14368.3	98.4	276011.0	733493	248.373 ng/ml
EDDP	5.299	544064	5377.9	228.0	50021.7	252206	245.394 ng/ml
Fluoxetine	5.719	378937	41743.0	7.7	10405.9	58256	254.685 ng/ml
Hydrocodone	3.107	963613	1819.4	35.4	1001.6	225303	251.450 ng/ml
Hydromorphone	1.692	868052	14469.5	72.7	2023.4	100623	251.445 ng/ml
Ketamine	4.137	1705822	27431.5	39.0	4625.9	305707	253.523 ng/ml
Lamotrigine	4.365	145417	3211.0	87.8	7499.4	305707	244.603 ng/ml
Lorazepam	5.754	685006	25043.8	50.1	1539.5	67506	223.600 ng/ml
MDA	3.256	1799301	941.1	23.3	1257.6	213307	267.880 ng/ml
MDMA	3.348	1289772	68903.0	86.2	9387.5	49847	245.348 ng/ml
Meprobamate	4.945	771690	34120.6	29.5	12726.5	123172	254.523 ng/ml
Methadone	5.672	960329	4630.5	54.2	4687.7	194126	249.671 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Methamphetamine	3.288	1188789	7368.7	41.4	2404.9	239641	256.713	ng/ml
Metoprolol	4.364	259112	10834.5	95.3	17423.8	305707	244.252	ng/ml
Mirtazapine	4.748	1295303	1480.8	47.1	7083.6	194126	231.495	ng/ml
Mitragynine	5.302	132383	2927.5	32.8	952.2	58256	212.174	ng/ml
Morphine	1.316	109083	1428.0	20.8	46.1	6180	238.117	ng/ml
Nordiazepam	5.896	685000	443313.7	61.1	10055.8	100876	247.601	ng/ml
Norfentanyl	4.122	33139	1345.8	287.8	175.1	486858	25.685	ng/ml
Norhydrocodone	3.128	34172	898.0	17.7	205.6	43839	271.027	ng/ml
Noroxycodone	2.979	827616	1271.6	40.2	659.4	119107	239.996	ng/ml
O-desmethyl-tramadol	3.425	4006664	32937.7	6.1	4045.1	852294	253.883	ng/ml
Oxazepam	5.761	1126671	1290.7	73.3	13895.4	253926	250.054	ng/ml
Oxycodone	2.917	2046901	7825.6	28.9	3476.8	352979	251.751	ng/ml
Oxymorphone	1.474	1116099	2263.5	43.8	21597.9	170515	252.943	ng/ml
Phentermine	3.831	326944	2654.8	8.5	617.3	180143	258.400	ng/ml
Promethazine	5.575	747352	530532.7	37.2	2962.1	141952	255.288	ng/ml
Quetiapine	5.603	605008	666175.9	56.1	247453.0	31029	247.178	ng/ml
Temazepam	5.823	2291536	56686.5	30.9	1812.3	426838	251.791	ng/ml
Tramadol	4.288	4048773	74954.7	3.4	1168.7	819971	251.277	ng/ml
Trazodone	5.349	978110	90306.8	74.0	201936.2	165142	252.834	ng/ml
Venlafaxine	5.081	2032731	14187.6	42.1	968.2	535997	245.028	ng/ml
Zolpidem	5.112	4653326	13474.7	32.1	5830.3	877585	248.310	ng/ml

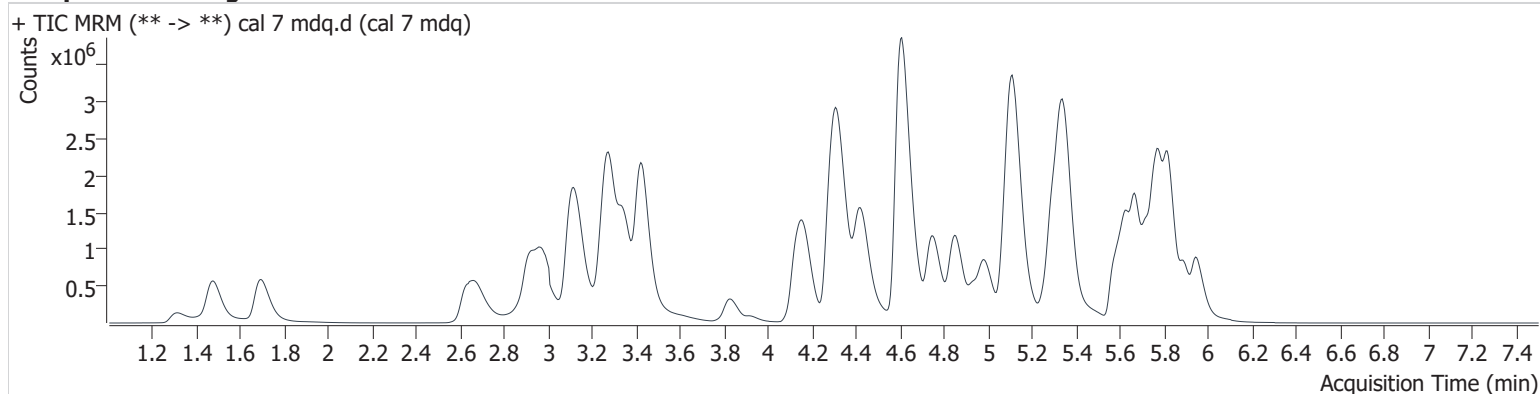
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 7 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 7 mdq
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-G5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/19/2020 11:00:53 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.202	77471	4071.0	76.3	950.1	38101	49.331 ng/ml
7-aminoclonazepam	4.318	1289511	30169.4	95.2	2915.6	108489	487.717 ng/ml
a-hydroxyalprazolam	5.702	245275	2526.7	59.9	1320.9	27594	485.618 ng/ml
alpha-PHP	4.990	2098030	64067.0	39.5	4985.9	317682	519.377 ng/ml
alpha-PVP	4.423	3886454	22800.0	49.8	15790.4	317682	501.856 ng/ml
Alprazolam	5.781	1666622	456.0	112.0	9999.1	121898	519.461 ng/ml
Amphetamine	3.115	5094872	6342.4	47.8	8760.4	198638	495.219 ng/ml
Benzoylcegonine	3.920	152844	6017.9	7.3	6804.4	9207	512.593 ng/ml
Buprenorphine	5.846	22052	783.3	17.4	747.1	16092	50.221 ng/ml
Bupropion	4.852	2957350	30960.8	64.0	4617.4	197329	509.933 ng/ml
Carisoprodol	5.726	1159745	10800.8	68.1	7414.7	113548	507.395 ng/ml
Citalopram	5.266	1300391	15132.1	40.3	573954.1	111620	525.531 ng/ml
Clonazepam	5.625	1581188	237063.2	32.0	880864.6	51301	503.595 ng/ml
Cocaine	4.317	3284841	77148.0	44.5	1257.4	494337	492.541 ng/ml
Codeine	2.685	437664	6030.1	114.9	20167.6	46691	495.004 ng/ml
Cyclobenzaprine	5.643	1226806	1147896.7	8.9	2080.3	87319	473.595 ng/ml
Dextromethorphan	5.310	830943	321814.1	78.8	321755.1	85348	484.532 ng/ml
Dextrorphan	4.171	837840	389495.1	213.5	78052.0	197134	516.285 ng/ml
Diazepam	5.947	1427061	4581.0	86.6	5469.3	137562	500.110 ng/ml
Dihydrocodeine	2.628	1307820	15147.7	60.6	6177.9	147278	497.830 ng/ml
Diphenhydramine	5.337	4244595	224821.9	30.1	78867.9	441426	508.612 ng/ml
Doxylamine	4.604	9609704	189935.6	97.7	246798.7	770241	504.227 ng/ml
EDDP	5.299	1391510	1041729.0	229.7	35021.2	325296	486.584 ng/ml
Fluoxetine	5.719	899351	2993.0	7.4	35548.3	70390	505.699 ng/ml
Hydrocodone	3.102	1666551	3928.8	39.4	1862.6	210653	465.274 ng/ml
Hydromorphone	1.692	1645123	3224.3	74.0	7463.7	88389	542.007 ng/ml
Ketamine	4.132	3121440	10834.2	38.5	2249.7	288912	491.330 ng/ml
Lamotrigine	4.370	230736	3469.9	90.7	2862.8	288912	411.126 ng/ml
Lorazepam	5.749	957166	12179.8	51.0	2619.5	51301	412.379 ng/ml
MDA	3.256	3473747	1416.0	24.4	9431.2	233159	473.261 ng/ml
MDMA	3.348	2659666	895.4	85.0	53711.7	48767	517.395 ng/ml
Meprobamate	4.940	1301183	12928.7	29.3	1975.4	107977	491.847 ng/ml
Methadone	5.672	2554239	2801.9	52.8	8304.2	253329	509.377 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.283	3300469	1863.3	42.6	17821.1	336913	521.021 ng/ml
Metoprolol	4.364	440968	25711.7	94.7	1018.1	288912	440.419 ng/ml
Mirtazapine	4.743	3349066	22262.3	46.8	5405.6	253329	460.315 ng/ml
Mitragynine	5.302	353661	304848.0	30.7	1000.6	70390	472.721 ng/ml
Morphine	1.311	206113	2208.6	23.6	6858.3	5374	517.849 ng/ml
Nordiazepam	5.896	1196874	1065767.8	60.3	5856.3	86745	503.243 ng/ml
Norfentanyl	4.122	61927	3688.4	294.4	477.0	482102	48.465 ng/ml
Norhydrocodone	3.133	58343	1041.6	20.9	303.7	38571	525.844 ng/ml
Noroxycodone	2.979	1504679	1191.0	40.2	11477.3	102094	508.479 ng/ml
O-desmethyl-tramadol	3.425	7624749	42920.0	6.4	1012.1	821434	501.209 ng/ml
Oxazepam	5.761	1690457	28021.4	73.2	2100.8	195069	488.605 ng/ml
Oxycodone	2.917	3934903	7468.0	29.3	9339.8	344402	495.949 ng/ml
Oxymorphone	1.474	2095122	3576.1	43.9	14344.1	163297	496.083 ng/ml
Phentermine	3.826	809183	723.2	7.6	1068.0	221404	520.298 ng/ml
Promethazine	5.575	2025405	94556.3	37.0	2928.8	196188	500.382 ng/ml
Quetiapine	5.603	1443664	220094.0	57.5	589921.0	37925	482.741 ng/ml
Temazepam	5.823	4008137	87214.4	30.5	3302.2	377012	498.615 ng/ml
Tramadol	4.283	7692402	348651.8	3.3	969.5	804378	487.817 ng/ml
Trazodone	5.354	2427411	6239.9	76.1	26324.1	213320	485.513 ng/ml
Venlafaxine	5.076	4047224	178591.5	40.8	19214.4	504497	517.561 ng/ml
Zolpidem	5.112	8650636	23917.3	30.9	7550.6	777171	520.802 ng/ml



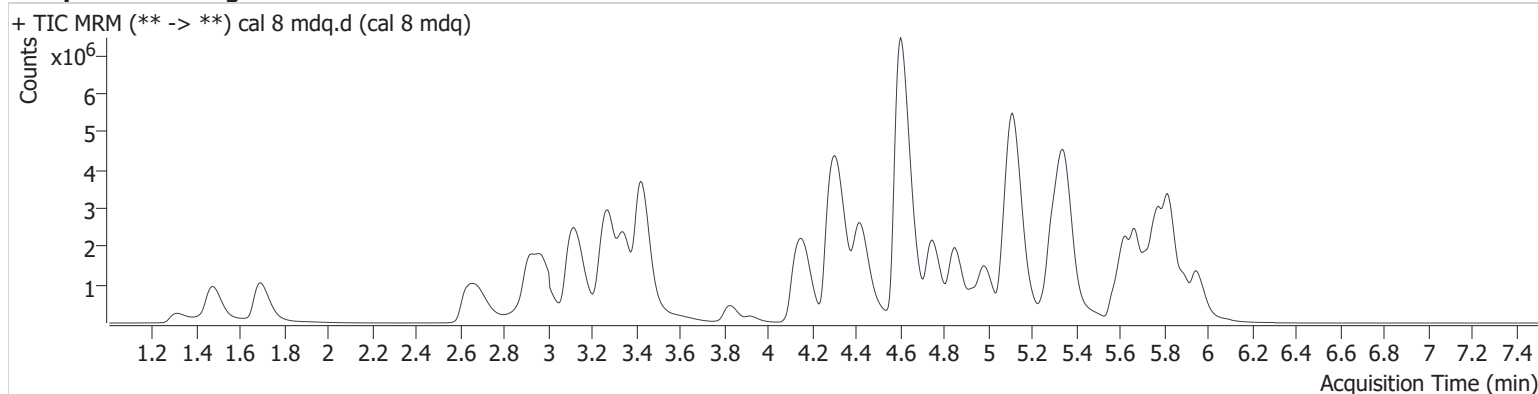


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 081920\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/20/2020 9:49:46 AM

**Instrument** 69679 **Data File** cal 8 mdq.d  
**Type** Cal **Sample** cal 8 mdq  
**Acq. Method** MDQP1 5-27-20.m **Operator** Anne Nord  
**Sample Position** P2-H5 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 8/19/2020 11:22:23 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.202	158793	5876.9	75.0	8180.0	38171	100.949 ng/ml
7-aminoclonazepam	4.318	1616538	9903.0	89.6	24756.1	64166	1033.814 ng/ml
a-hydroxyalprazolam	5.697	377417	6113.7	60.6	1471.9	22927	899.304 ng/ml
alpha-PHP	4.990	3901501	40341.6	39.1	38758.0	278709	1099.833 ng/ml
alpha-PVP	4.423	6913158	29443.7	50.4	32741.9	278709	1017.137 ng/ml
Alprazolam	5.781	2751382	14104.9	112.6	13831.5	99931	1045.573 ng/ml
Amphetamine	3.120	6481927	19024.1	47.6	14886.6	143982	869.548 ng/ml
Benzoylcegonine	3.920	341522	3994.5	7.5	1244.5	10093	1044.880 ng/ml
Buprenorphine	5.851	25552	15804.6	15.2	3623.5	9054	103.058 ng/ml
Bupropion	4.847	4836948	466644.3	65.0	18533.6	165315	995.475 ng/ml
Carisoprodol	5.726	1819315	37957.2	66.7	8062.5	90282	1000.955 ng/ml
Citalopram	5.261	1856120	28436.7	40.2	894540.1	84431	991.540 ng/ml
Clonazepam	5.625	2557274	65154.0	31.7	775560.8	44466	940.082 ng/ml
Cocaine	4.317	5646807	3803.6	42.0	108740.0	399841	1046.825 ng/ml
Codeine	2.690	799944	1170.2	117.6	2614.7	40986	1030.464 ng/ml
Cyclobenzaprine	5.643	1201045	1181909.4	8.7	2061.8	41969	965.291 ng/ml
Dextromethorphan	5.305	1054414	185729.1	77.4	39644.1	52093	1008.299 ng/ml
Dextrorphan	4.171	1292945	3852.8	220.9	102256.2	155906	1007.569 ng/ml
Diazepam	5.947	2487467	8200.3	87.1	33762.9	119903	999.814 ng/ml
Dihydrocodeine	2.633	2500861	6340.8	60.9	29846.8	146459	957.397 ng/ml
Diphenhydramine	5.337	6282317	102807.9	30.4	15082.2	326729	1017.787 ng/ml
Doxylamine	4.599	19875242	483903.2	96.2	246546.7	767775	1045.800 ng/ml
EDDP	5.299	2619922	14978.7	233.2	57767.5	266133	1119.769 ng/ml
Fluoxetine	5.719	690283	130077.8	7.9	39009.3	27883	985.149 ng/ml
Hydrocodone	3.102	3086318	1946.7	38.7	593.1	197730	918.139 ng/ml
Hydromorphone	1.687	3166160	7085.1	73.4	1153.2	95939	960.715 ng/ml
Ketamine	4.132	5609377	54063.6	38.5	14436.8	267352	954.599 ng/ml
Lamotrigine	4.370	331339	8478.9	90.5	155514.5	267352	638.356 ng/ml
Lorazepam	5.744	1008282	39483.0	51.7	606.6	44466	501.493 ng/ml
MDA	3.256	5937255	44155.7	24.8	12361.6	193090	976.916 ng/ml
MDMA	3.348	4832401	230293.0	85.0	980.1	48244	950.440 ng/ml
Meprobamate	4.940	2126653	47445.4	29.1	17322.1	95580	910.244 ng/ml
Methadone	5.672	3728317	48408.8	52.4	57931.9	184257	1022.729 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Methamphetamine	3.278	2877124	20142.3	43.4	∞	168862	916.873	ng/ml
Metoprolol	4.369	699355	841709.4	91.3	20772.7	267352	755.327	ng/ml
Mirtazapine	4.743	6100004	19229.3	46.3	15476.4	184257	1155.255	ng/ml
Mitragynine	5.302	327449	1941.4	32.1	866.8	27883	1108.917	ng/ml
Morphine	1.311	381272	3105.7	22.0	4940.7	5397	954.140	ng/ml
Nordiazepam	5.896	1891909	6937.2	61.4	5655.4	70099	984.510	ng/ml
Norfentanyl	4.112	103496	5242.8	287.8	2367.3	445619	87.625	ng/ml
Norhydrocodone	3.133	95976	1827.9	20.6	∞	28134	1185.843	ng/ml
Noroxycodone	2.979	2550061	6870.3	41.6	28316.1	89660	980.788	ng/ml
O-desmethyl-tramadol	3.425	14839793	154284.0	6.2	10873.0	758824	1055.876	ng/ml
Oxazepam	5.756	2205348	30460.9	73.3	10800.9	125792	988.713	ng/ml
Oxycodone	2.919	7726272	17185.7	29.1	15569.2	342615	978.823	ng/ml
Oxymorphone	1.469	3905461	46007.9	43.8	26197.8	156123	967.503	ng/ml
Phentermine	3.826	1231757	1842.3	7.3	2170.7	167568	1046.412	ng/ml
Promethazine	5.570	2167244	32029.1	36.4	53003.6	103172	1017.907	ng/ml
Quetiapine	5.603	2682634	2604164.6	59.1	1164644.0	36040	944.144	ng/ml
Temazepam	5.823	6709100	8685.8	30.8	3647.0	303327	1037.364	ng/ml
Tramadol	4.278	13008835	657436.2	3.3	1477.2	747671	888.539	ng/ml
Trazodone	5.354	4422968	4266.5	75.7	38703.1	173052	1090.174	ng/ml
Venlafaxine	5.076	7258161	2308.0	40.7	1159.7	442485	1057.547	ng/ml
Zolpidem	5.112	15935764	14398.0	29.8	10287.5	708155	1052.473	ng/ml