

















REVIEWED

By Sarah Pickle at 2:16 pm, Aug 26, 2019



8/22/2019

Worklist: 3619

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2019-1225	1	160972	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1384	1	160973	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1385	1	160974	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1390	1	160975	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1438	1	160976	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1440	1	160977	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1474	1	160978	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1485	1	160979	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1512	1	160980	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1531	1	160981	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1541	1	160982	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
C2019-1564	1	160983	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2084	1	160984	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2084	2	160985	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2105	2	160986	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2139	1	160987	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date 08-16-19

Analyst: Anne Nord

Plate lot#: 190124 (part IDP-111)

Plate Expiration: 7/24/19

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

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

Blank Blood Lot: 445283-2 Hemostat

Column: Agilent 120 EC-C18 (2.1x 100-4um)

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** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 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 Started drying 8/16/19 ran out of nitrogen placed in freezer finished drying 8/19/19
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist. 8/19/19

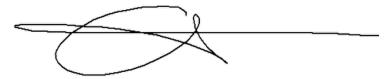
Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² 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:

Curves limited: fluoxetine 25-1000, lorazepam 5-250, lamotrigine 25-500, metoprolol 5-500, mitragynine 5-500, Mirtazapine 5-250, norfentanyl .5-50, norhydrocodone 100-1000, trazodone 5-500

Not evaluated: buprenorphine, norbuprenorphine, fluoxetine 8/26/19 ✱



Nord, Anne

From: Shrum, Celena
Sent: Wednesday, August 21, 2019 1:51 PM
To: Nord, Anne
Subject: RE: expired reagent

Your request is approved.

Celena D. Shrum



*Idaho State Police
District 5 Forensics
Forensic Scientist
(208)239-9900
celena.shrum@isp.idaho.gov*

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From: Nord, Anne
Sent: Wednesday, August 21, 2019 2:47 PM
To: Shrum, Celena <celena.shrum@isp.idaho.gov>
Subject: expired reagent

Quality Manual

- 15.1.3.3 The records regarding reagents used for a single analysis and then disposed of shall be maintained in the casework notes.

Reagents of questionable reliability and expired reagents shall be discarded. However, an expired reagent may continue to be used if tested with a positive and negative control each time it is used, and the appropriate discipline lead has approved the use of the expired reagent in writing before the release of results.



I am requesting to use Plate lot#: 190124 (part IDP-111) Plate Expiration: 7/24/19, the associated extraction is worklist 3619 extracted 8/16-19/2019 and run on 8/19/19.

A negative control and an unexpired external positive control were run with the batch and gave anticipated results.

Anne M Nord
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Idaho State Police
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Toxicology AM method 28 panel 1 external prep information

working solution 10000 ng/ml in meoh amphetamine, dextromethorphan, methamphetamine, morphine, paroxetine, amitriptyline meperidine, doxepine, mirtazapine, 1000 ng/ml buprenorphine

Stock solution 1mg/ml (.1mg/ml buprenorphine) 100 ul each in 9000 ul meOH

Ppd 3/14/19 Exp: 3/14/20 lot 31420 by AMN

Drug	lot	expiration
amphetamine	FE06011503	6/1/2020
dextromethorphan	FN07231501	7/1/2020
methamphetamine	FE08101708	10/1/2022
morphine	FE08141515	11/1/2020
buprenorphine	FE09211501	9/1/2020
paroxetine	FN05111505	6/1/2020
mirtazapine	FN04201503	4/1/2020
meperidine	FE01191502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
doxepin	FN01281502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
amitriptyline	FN07081401	9/1/2019 (this compound will not be evaluated in this control after 9/1/2019)

AM 28 control 50 ul working solution lot (31420) in 9950 ul blood lot (19A207P3)

ppd 3/14/19 Exp 3/14/2020 by AMN Concentration 50 ng/ml each (5 ng/ml buprenorphine)

AM #28 Multi-Drug Quant. Results

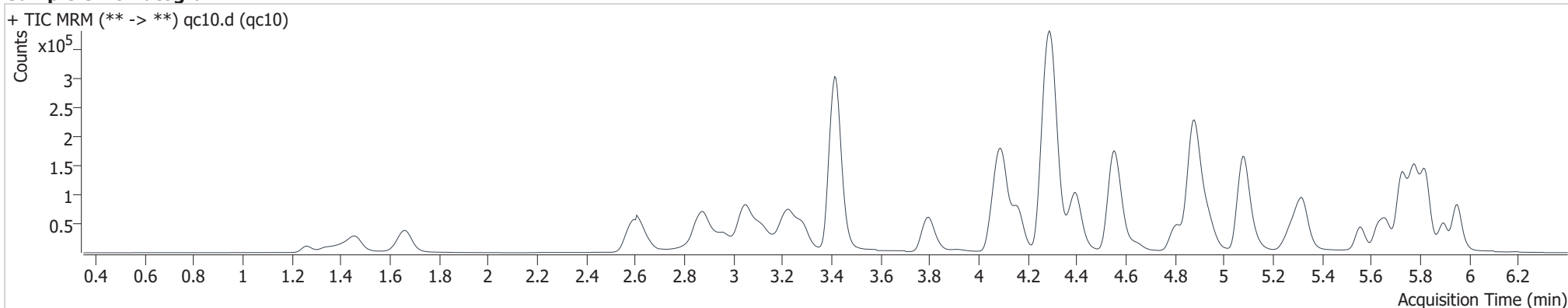
Batch results
Calibration Last Update

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Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-A2
Injection Volume 2
Acq. Date-Time 8/19/2019 11:57:08 AM
Sample Info.

Data File qc10.d
Sample qc10
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	1486	1511.8	73.0	284.3	50547	0.878 ng/ml
7-aminoclonazepam	4.307	34238	1180.4	78.6	1611.4	137062	10.201 ng/ml
a-hydroxyalprazolam	5.709	4587	361.2	58.9	2183.2	24595	10.037 ng/ml
alpha-PVP	4.402	54531	558.0	55.5	864.8	246383	9.608 ng/ml
Alprazolam	5.782	52016	18868.8	103.2	1499.0	153411	10.881 ng/ml
Amphetamine	3.122	78434	265.1	50.8	308.8	118884	9.971 ng/ml
Benzoyllecgonine	3.931	2424	∞	9.0	∞	8457	9.922 ng/ml
Bupropion	4.819	35164	1482.3	60.3	409.9	118965	10.217 ng/ml
Carisoprodol	5.738	45032	33116.5	61.6	179.5	225420	9.893 ng/ml
Citalopram	5.256	12423	222.2	45.0	994.0	54036	9.706 ng/ml
Clonazepam	5.633	25596	4686.6	33.9	1924.3	40912	10.192 ng/ml
Cocaine	4.302	58804	8905.9	45.0	5403.7	536956	9.731 ng/ml
Codeine	2.648	11679	1267.6	103.0	51.7	54712	9.876 ng/ml
Cyclobenzaprine	5.635	9235	∞	11.6	831.1	36304	10.361 ng/ml
Dextromethorphan	5.300	5857	320.1	80.1	185.9	30771	9.358 ng/ml
Dextrorphan	4.161	15688	12965.2	209.0	1380.7	175431	10.929 ng/ml
Diazepam	5.957	34423	1702.6	83.4	1243.2	153781	10.752 ng/ml
Dihydrocodeine	2.627	28786	1966.3	67.1	167.2	159476	9.995 ng/ml

qc10

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Diphenhydramine	5.327	35316	671.0	34.5	133.7	168425	10.864 ng/ml	
Doxylamine	4.569	111370	798.4	98.0	250.7	483741	9.751 ng/ml	
EDDP	5.290	6684	106.4	249.9	5303.6	89512	8.955 ng/ml	
Fentanyl	5.122	775	27.4	77.1	1131.1	43514	0.843 ng/ml	
Fluoxetine	5.715	12592	893.9	10.1	1662.7	47649	12.449 ng/ml	ocr A not evaluated 8/26/19 A
Hydrocodone	3.074	28481	445.2	43.1	235.1	171022	10.695 ng/ml	
Hydromorphone	1.668	30680	2391.8	76.7	387.1	114958	9.516 ng/ml	
Ketamine	4.082	61163	609.6	35.4	203.4	288424	9.609 ng/ml	
Lamotrigine	4.329	7461	395.9	82.6	267.0	288424	1.479 ng/ml	ocr A
Lorazepam	5.755	11366	606.4	56.8	90.5	83539	9.984 ng/ml	
Meprobamate	4.957	29551	657.5	30.6	230.1	138256	10.107 ng/ml	
Methadone	5.664	17173	1361.4	50.7	258.2	79915	11.300 ng/ml	
Methamphetamine	3.284	78618	401.2	39.9	179.0	263249	9.874 ng/ml	
Metoprolol	4.359	13119	629.8	96.1	597.6	288424	10.963 ng/ml	
Mirtazapine	4.650	21714	726.7	48.1	189.8	168425	9.680 ng/ml	
Mitragynine	5.245	2510	1264.8	38.2	245.2	79915	10.244 ng/ml	
Morphine	1.267	5655	3864.0	26.2	1997.1	6078	9.126 ng/ml	
Nordiazepam	5.902	26091	24691.1	57.8	3466.3	87852	9.446 ng/ml	
Norfentanyl	4.122	9045	74.2	41.0	20.0	400101	1.024 ng/ml	
Norhydrocodone	3.120	1233	95.4	41.0	740.1	34446	59.500 ng/ml	ocr A
Noroxycodone	2.977	25725	307.8	43.7	660.7	91097	10.238 ng/ml	
O-desmethyl-tramadol	3.420	191047	549.3	6.5	1297.2	863230	10.628 ng/ml	
Oxazepam	5.768	21625	608.0	69.3	288.5	83539	10.191 ng/ml	
Oxycodone	2.900	58968	1622.8	30.5	510.4	267410	10.061 ng/ml	
Oxymorphone	1.460	38335	1263.6	47.3	829.6	137004	9.566 ng/ml	
Phentermine	3.828	21035	106.0	4.3	24.1	213117	9.735 ng/ml	
Promethazine	5.558	15397	1294.9	31.4	265.7	62319	10.197 ng/ml	
Quetiapine	5.550	16134	6338.4	59.3	67.8	20310	10.379 ng/ml	
Sertraline	5.777	6511	729.9	96.4	5764.4	26719	10.082 ng/ml	
Temazepam	5.824	56981	749.7	30.3	158.6	265993	9.446 ng/ml	
Tramadol	4.283	144431	1103.8	3.6	33.9	690020	9.954 ng/ml	
Trazodone	5.127	12664	1276.1	81.5	5535.9	50709	10.848 ng/ml	
Venlafaxine	5.078	78387	4408.3	36.6	646.3	399165	10.424 ng/ml	
Zolpidem	4.893	144728	4629.1	29.7	3149.7	679667	9.878 ng/ml	

ocr = outside curve range

AM #28 Multi-Drug Quant. Results

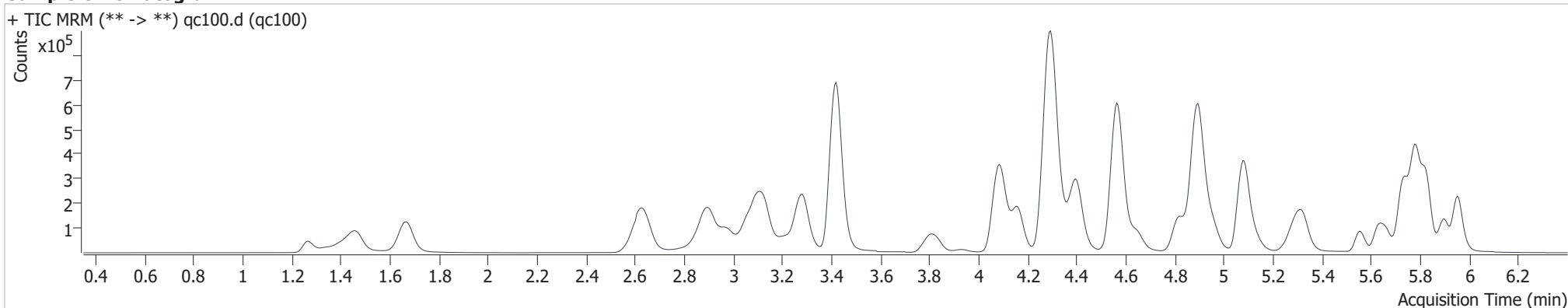
Batch results
Calibration Last Update

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Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-B2
Injection Volume 2
Acq. Date-Time 8/19/2019 12:07:58 PM
Sample Info.

Data File qc100.d
Sample qc100
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	13276	6152.8	72.6	2209.7	47130	8.005 ng/ml
7-aminoclonazepam	4.307	235853	8206.0	79.9	820.4	96476	100.180 ng/ml
a-hydroxyalprazolam	5.709	32996	982.8	62.2	746.0	19050	90.431 ng/ml
alpha-PVP	4.402	475874	20371.5	52.5	2748.4	216599	89.646 ng/ml
Alprazolam	5.782	410331	162.2	103.6	6483.7	122063	88.340 ng/ml
Amphetamine	3.122	559895	3270.8	51.8	1128.9	91117	94.408 ng/ml
Benzoylcegonine	3.931	18522	∞	8.2	∞	6867	91.672 ng/ml
Bupropion	4.819	273207	13388.8	60.4	1141.1	93295	96.389 ng/ml
Carisoprodol	5.733	342749	217167.8	61.6	5764.3	176239	92.214 ng/ml
Citalopram	5.261	62747	1135.6	43.3	9275.8	28088	90.340 ng/ml
Clonazepam	5.633	190068	5925.9	33.9	40749.9	32277	93.782 ng/ml
Cocaine	4.302	520195	69536.0	44.6	92963.9	491430	89.820 ng/ml
Codeine	2.648	98936	3422.3	103.6	465.3	46737	94.055 ng/ml
Cyclobenzaprine	5.635	18160	∞	10.8	∞	6911	90.710 ng/ml
Dextromethorphan	5.300	30676	21580.4	76.9	863.9	16229	83.974 ng/ml
Dextrorphan	4.161	127296	136470.4	211.6	1085.7	145575	90.592 ng/ml
Diazepam	5.952	272742	5161.5	85.1	6043.4	122292	93.486 ng/ml
Dihydrocodeine	2.622	248905	989.2	68.8	46861.9	141634	97.514 ng/ml

qc100

Generated at 9:19 AM on 8/20/2019

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	199436	1038.0	34.7	734.0	97797	88.533 ng/ml
Doxylamine	4.569	990064	45455.5	95.8	359384.2	436190	90.133 ng/ml
EDDP	5.295	62230	63943.0	243.8	55632.1	80091	87.134 ng/ml
Fentanyl	5.122	2537	42.7	64.2	1319.3	14050	8.173 ng/ml
Fluoxetine	5.715	18854	18178.3	8.5	318.0	7222	87.941 ng/ml not evaluated 8/26/19 A
Hydrocodone	3.074	256410	492.4	33.0	498.7	155923	92.182 ng/ml
Hydromorphone	1.668	257533	2379.1	76.7	10865.8	95447	92.223 ng/ml
Ketamine	4.082	550763	81581.2	36.4	8620.9	267886	90.733 ng/ml
Lamotrigine	4.330	58942	2441.1	89.0	2485.1	267886	92.897 ng/ml
Lorazepam	5.755	61109	2216.1	58.6	685.2	47709	92.775 ng/ml
Meprobamate	4.957	223093	309.5	30.5	5402.0	109730	92.216 ng/ml
Methadone	5.664	79904	9046.0	51.1	1945.6	39633	89.262 ng/ml
Methamphetamine	3.284	487973	787.9	39.2	583.0	206378	93.628 ng/ml
Metoprolol	4.359	111969	798.4	96.9	7287.8	267886	105.259 ng/ml
Mirtazapine	4.645	148782	2656.7	49.0	328.5	97797	104.707 ng/ml
Mitragynine	5.250	8723	179.1	37.4	2976.2	39633	75.305 ng/ml
Morphine	1.267	46422	459189.8	26.4	1818.6	4991	86.498 ng/ml
Nordiazepam	5.902	194098	1393189.4	59.3	16871.5	67107	88.559 ng/ml
Norfentanyl	4.122	82322	883.1	40.6	76.6	359911	8.413 ng/ml
Norhydrocodone	3.120	16996	481.1	39.2	976.1	31998	102.394 ng/ml
Noroxycodone	2.977	214990	1305.2	43.1	1052.3	78416	90.178 ng/ml
O-desmethyl-tramadol	3.420	1620759	1368.3	6.4	1458.7	746290	84.538 ng/ml
Oxazepam	5.763	115171	1331.1	71.3	474.3	47709	87.695 ng/ml
Oxycodone	2.900	516874	1266.8	31.4	805.9	238951	89.694 ng/ml
Oxymorphone	1.455	316849	596350.8	46.6	423115.7	116188	90.647 ng/ml
Phentermine	3.828	170203	645.1	4.8	371.6	176510	93.387 ng/ml
Promethazine	5.563	35127	9824.5	31.9	514.1	14334	95.462 ng/ml
Quetiapine	5.550	111132	138607.9	59.6	1707.1	14064	96.711 ng/ml
Sertraline	5.777	8001	3879.9	100.6	6644.1	3443	93.489 ng/ml
Temazepam	5.824	441114	6594.0	30.0	541.3	208198	86.509 ng/ml
Tramadol	4.283	1276150	626.2	3.4	642.5	632993	94.889 ng/ml
Trazodone	5.127	77779	869.7	79.7	310.6	29549	90.813 ng/ml
Venlafaxine	5.078	673978	31976.5	37.5	1676.3	345920	86.372 ng/ml
Zolpidem	4.893	1319276	1063.6	30.0	27026.0	630582	92.403 ng/ml

AM #28 Multi-Drug Quant. Results

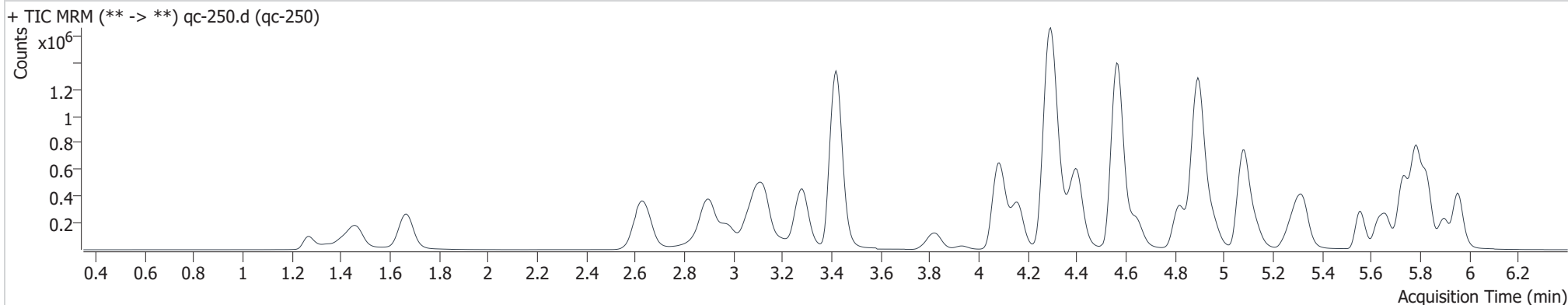
Batch results
Calibration Last Update

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8/20/2019 9:16:31 AM

Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-C2
Injection Volume 2
Acq. Date-Time 8/19/2019 12:18:45 PM
Sample Info.

Data File qc-250.d
Sample qc-250
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	33289	2995.4	72.2	1454.5	45334	20.791 ng/ml
7-aminoclonazepam	4.307	529620	6738.4	80.6	1415.7	93382	232.468 ng/ml
a-hydroxyalprazolam	5.704	68426	932.5	61.3	2102.6	15428	231.034 ng/ml
alpha-PVP	4.402	1114645	72887.2	52.7	44030.5	202687	223.426 ng/ml
Alprazolam	5.787	847232	5494.4	104.7	6165.0	100044	219.212 ng/ml
Amphetamine	3.122	1190560	7672.8	52.1	6218.0	81624	224.351 ng/ml
Benzoylcegonine	3.931	46122	∞	8.3	∞	6876	227.704 ng/ml
Bupropion	4.819	676189	1124.0	60.4	2746.4	92351	240.188 ng/ml
Carisoprodol	5.733	705657	603534.1	61.6	3605.4	147903	225.542 ng/ml
Citalopram	5.261	194629	13187.9	43.1	73778.4	35762	219.434 ng/ml
Clonazepam	5.633	384929	4756.5	33.8	49714.1	26888	227.631 ng/ml
Cocaine	4.302	1170608	119314.0	44.7	2681.9	445665	222.155 ng/ml
Codeine	2.653	214537	35295.2	103.6	377.0	41672	228.122 ng/ml
Cyclobenzaprine	5.635	106357	649709.7	10.4	5615.5	16181	224.294 ng/ml
Dextromethorphan	5.300	93820	1206.4	76.5	1465.4	19644	210.639 ng/ml
Dextrorphan	4.161	293599	4469.0	212.2	2043.2	136697	219.815 ng/ml
Diazepam	5.957	597207	10997.8	85.4	4982.1	111697	221.989 ng/ml
Dihydrocodeine	2.622	579190	1376.2	68.8	50629.5	139706	230.073 ng/ml

qc-250

Generated at 9:19 AM on 8/20/2019

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	589900	72099.3	34.4	1894.7	114223	221.201 ng/ml
Doxylamine	4.569	2470010	15360.0	95.9	1198.0	432027	226.002 ng/ml
EDDP	5.295	166088	3683.4	240.6	2128.1	84765	218.753 ng/ml
Fentanyl	5.122	10288	567.0	71.1	6246.1	21796	21.295 ng/ml
Fluoxetine	5.715	113345	2696.3	8.6	2711.6	17717	209.769 ng/ml not evaluated 8/26/19 *
Hydrocodone	3.074	603287	1864.3	41.0	1126.3	150215	222.948 ng/ml
Hydromorphone	1.668	615429	1716.1	76.6	1123792.3	94777	221.330 ng/ml
Ketamine	4.082	1332187	335193.3	36.1	4573.1	260021	225.687 ng/ml
Lamotrigine	4.335	132571	2400.5	88.3	4849.3	260021	229.359 ng/ml
Lorazepam	5.755	87716	3374.9	59.8	299.8	24891	254.988 ng/ml
Meprobamate	4.957	465315	65205.4	30.7	8909.4	94199	223.392 ng/ml
Methadone	5.664	259179	3682.4	53.9	14443.1	51986	217.789 ng/ml
Methamphetamine	3.284	960733	1210.4	39.1	343.3	173513	222.252 ng/ml
Metoprolol	4.364	248066	1472.5	97.2	217.5	260021	240.961 ng/ml
Mirtazapine	4.645	414301	2497.5	49.2	1030.6	114223	248.419 ng/ml
Mitragynine	5.250	35171	3572.9	35.6	9611.1	51986	232.714 ng/ml
Morphine	1.272	112311	663541.4	25.5	149466.8	4751	219.009 ng/ml
Nordiazepam	5.902	382686	9909.6	59.2	6041.2	54957	212.655 ng/ml
Norfentanyl	4.122	200243	36248.6	40.2	715.7	335839	21.588 ng/ml
Norhydrocodone	3.120	53888	4849.5	41.0	977.4	31652	203.817 ng/ml
Noroxycodone	2.977	462228	1183.4	42.5	474.8	67814	222.619 ng/ml
O-desmethyl-tramadol	3.421	3907316	114863.7	6.4	1139.3	714321	209.521 ng/ml
Oxazepam	5.763	152128	2456.6	70.2	516.6	24891	220.667 ng/ml
Oxycodone	2.900	1243500	3113.9	31.2	1012.4	234710	218.206 ng/ml
Oxymorphone	1.455	715955	2738598.1	46.9	1943633.8	107404	221.150 ng/ml
Phentermine	3.828	379285	2443.3	4.7	723.3	159948	229.367 ng/ml
Promethazine	5.558	192515	19186.3	31.9	3663.5	33306	224.301 ng/ml
Quetiapine	5.550	342469	4683.2	60.2	106569.0	17692	235.852 ng/ml
Sertraline	5.782	49273	3464.9	99.9	52566.0	8465	233.748 ng/ml
Temazepam	5.829	896539	17833.2	29.7	2591.7	166995	218.011 ng/ml
Tramadol	4.283	2935650	34090.9	3.5	4624.3	616739	223.879 ng/ml
Trazodone	5.127	257598	191113.9	77.9	341.8	40360	216.687 ng/ml
Venlafaxine	5.078	1622429	1533.0	37.9	6334.5	336428	210.965 ng/ml
Zolpidem	4.893	3261487	1466.4	29.8	1487.8	629262	228.138 ng/ml

AM #28 Multi-Drug Quant. Results

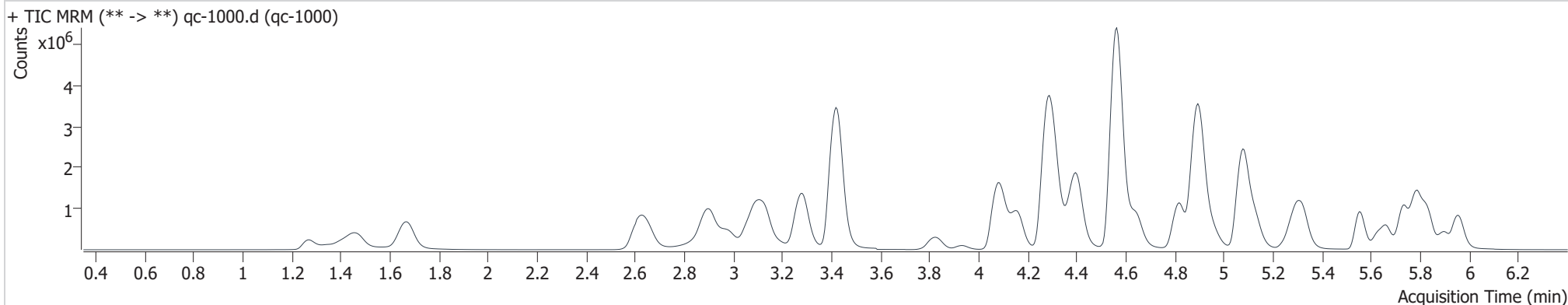
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
 8/20/2019 9:16:31 AM

Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-D2
Injection Volume 2
Acq. Date-Time 8/19/2019 12:29:32 PM
Sample Info.

Data File qc-1000.d
Sample qc-1000
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	114219	193561.9	74.0	9219.1	36627	88.136 ng/ml
7-aminoclonazepam	4.307	700977	32866.6	84.4	29573.0	37142	773.669 ng/ml
a-hydroxyalprazolam	5.704	156954	338.3	59.5	608.8	9895	825.374 ng/ml
alpha-PVP	4.402	3948020	161169.2	52.5	125802.0	177148	903.495 ng/ml
Alprazolam	5.787	1890275	10839.5	105.0	23201.4	56667	857.036 ng/ml
Amphetamine	3.122	3020355	2179.0	50.0	6189.8	57743	805.028 ng/ml
Benzoyllecgonine	3.931	189664	∞	8.0	∞	6887	934.198 ng/ml
Bupropion	4.819	2491336	718379.9	60.1	12175.0	85712	951.881 ng/ml
Carisoprodol	5.733	1631004	1654732.0	60.9	4620.8	88260	872.234 ng/ml
Citalopram	5.256	504965	1319.8	42.3	116654.0	22677	896.439 ng/ml
Clonazepam	5.633	903048	31243.5	34.1	1131.2	16994	844.228 ng/ml
Cocaine	4.302	3491445	256192.5	44.1	479.6	328319	897.925 ng/ml
Codeine	2.653	543040	3923.3	100.8	78357.8	27730	866.498 ng/ml
Cyclobenzaprine	5.635	133379	∞	10.3	∞	5443	831.436 ng/ml
Dextromethorphan	5.300	235274	1323.0	77.7	27428.4	12867	803.597 ng/ml
Dextrorphan	4.161	860931	445754.6	214.5	160530.0	98381	889.910 ng/ml
Diazepam	5.957	1413915	13027.8	85.8	20842.2	67884	860.369 ng/ml
Dihydrocodeine	2.617	1628622	69164.3	69.5	1625.0	117321	770.436 ng/ml

qc-1000

Generated at 9:19 AM on 8/20/2019

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Diphenhydramine	5.327	1709571	262228.5	34.3	24194.8	83361	872.555 ng/ml	
Doxylamine	4.564	10299910	18404.7	95.8	440149.3	451813	899.131 ng/ml	
EDDP	5.290	680055	3651.8	241.8	32913.6	87986	861.016 ng/ml	
Fentanyl	5.122	19400	150.2	67.9	1841.0	10205	85.640 ng/ml	
Fluoxetine	5.715	94347	4605.8	8.8	5804.6	3961	770.262 ng/ml	not evaluated 8/26/19 A
Hydrocodone	3.068	1768794	539.7	41.2	1121.6	116666	837.441 ng/ml	
Hydromorphone	1.668	1840205	68209.4	76.7	18169.6	71767	872.696 ng/ml	
Ketamine	4.082	4194935	3108535.2	35.9	45102.1	215860	855.278 ng/ml	
Lamotrigine	4.335	282703	3935.7	87.3	5155.0	215860	605.950 ng/ml	ocr A
Lorazepam	5.755	146778	5470.6	62.8	259.3	7813	1358.824 ng/ml	ocr A
Meprobamate	4.957	1087602	182.7	30.8	32670.1	51162	959.842 ng/ml	
Methadone	5.664	688145	17760.1	52.0	20707.2	34881	855.904 ng/ml	
Methamphetamine	3.284	3001272	1320.5	39.1	1550.6	150030	808.813 ng/ml	
Metoprolol	4.359	660879	52423.5	97.3	12397.5	215860	774.501 ng/ml	ocr A
Mirtazapine	4.645	1634433	3282.6	49.5	171682.9	83361	1338.962 ng/ml	ocr A
Mitragynine	5.245	61912	57179.0	37.3	21135.4	34881	611.485 ng/ml	ocr A
Morphine	1.272	310803	1484735.3	26.0	502554.9	3464	829.961 ng/ml	
Nordiazepam	5.902	774369	47357.0	58.1	603412.6	29155	810.015 ng/ml	
Norfentanyl	4.122	719454	201608.5	40.2	1269.0	266048	97.155 ng/ml	ocr A
Norhydrocodone	3.125	222819	694.1	41.2	1836.4	26376	787.882 ng/ml	ocr A
Noroxycodone	2.977	1161751	1257.0	44.4	501.4	44805	843.890 ng/ml	ocr A
O-desmethyl-tramadol	3.420	12235115	200814.4	6.1	49212.4	539938	860.931 ng/ml	no hydrocodone not ocr value is ok. 8/26/19
Oxazepam	5.763	177463	2833.2	73.1	2476.1	7813	817.758 ng/ml	
Oxycodone	2.894	3793663	5011.3	31.3	2440.7	186945	832.897 ng/ml	
Oxymorphone	1.455	1929986	6070342.0	46.7	2070015.8	77442	825.990 ng/ml	
Phentermine	3.828	1129694	1551.5	4.5	1480.3	134585	811.409 ng/ml	
Promethazine	5.563	252851	44280.5	32.0	13945.0	10300	950.566 ng/ml	
Quetiapine	5.550	1524132	18889.7	60.2	355004.5	20177	918.279 ng/ml	
Sertraline	5.777	28975	8563.7	102.7	16871.3	1302	892.816 ng/ml	
Temazepam	5.829	1936621	17091.6	29.7	3423.9	85432	918.025 ng/ml	
Tramadol	4.278	8781201	189792.5	3.4	5808.2	460708	896.134 ng/ml	
Trazodone	5.127	1202197	936.4	81.0	1635.0	40867	989.815 ng/ml	ocr A
Venlafaxine	5.078	6282542	39250.9	37.2	1069.5	310720	878.413 ng/ml	
Zolpidem	4.894	10397669	4019.0	29.3	372615.1	512722	891.087 ng/ml	

ocr = outside curve range



AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Sample

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-E2

Injection Volume

2

Acq. Date-Time

8/19/2019 1:12:24 PM

Sample Info.**Data File**

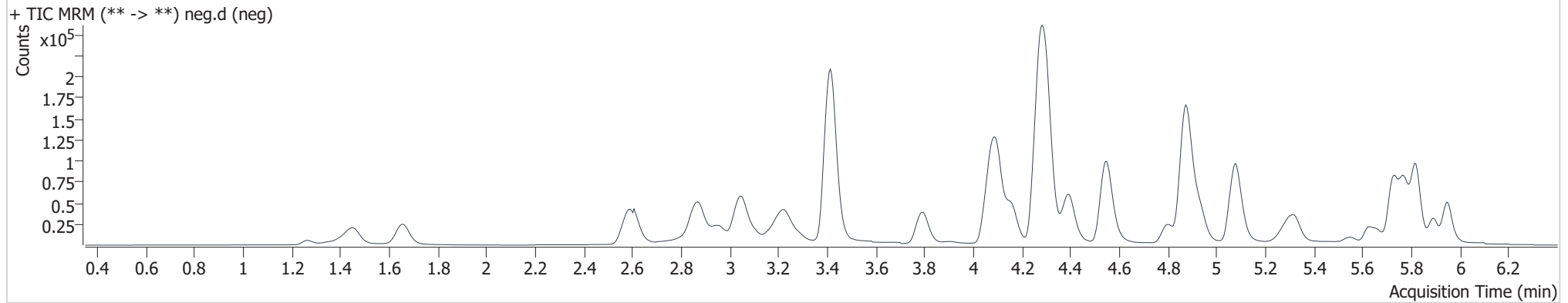
neg.d

Sample

neg

Operator

Anne Nord

Comment**Sample Chromatogram**

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Sample

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-F2

Injection Volume

2

Acq. Date-Time

8/19/2019 1:23:13 PM

Sample Info.

Data File

external control.d

Sample

external control

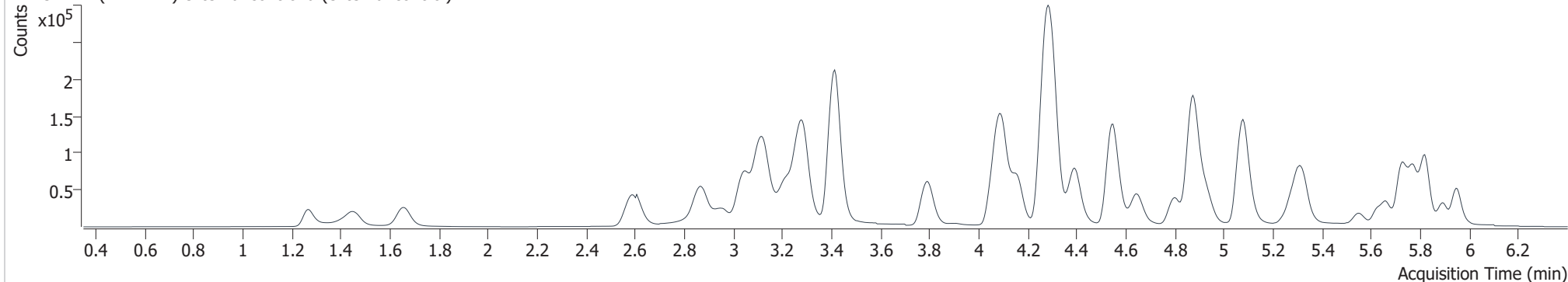
Operator

Anne Nord

Comment

Sample Chromatogram

+ TIC MRM (** -> **) external control.d (external control)

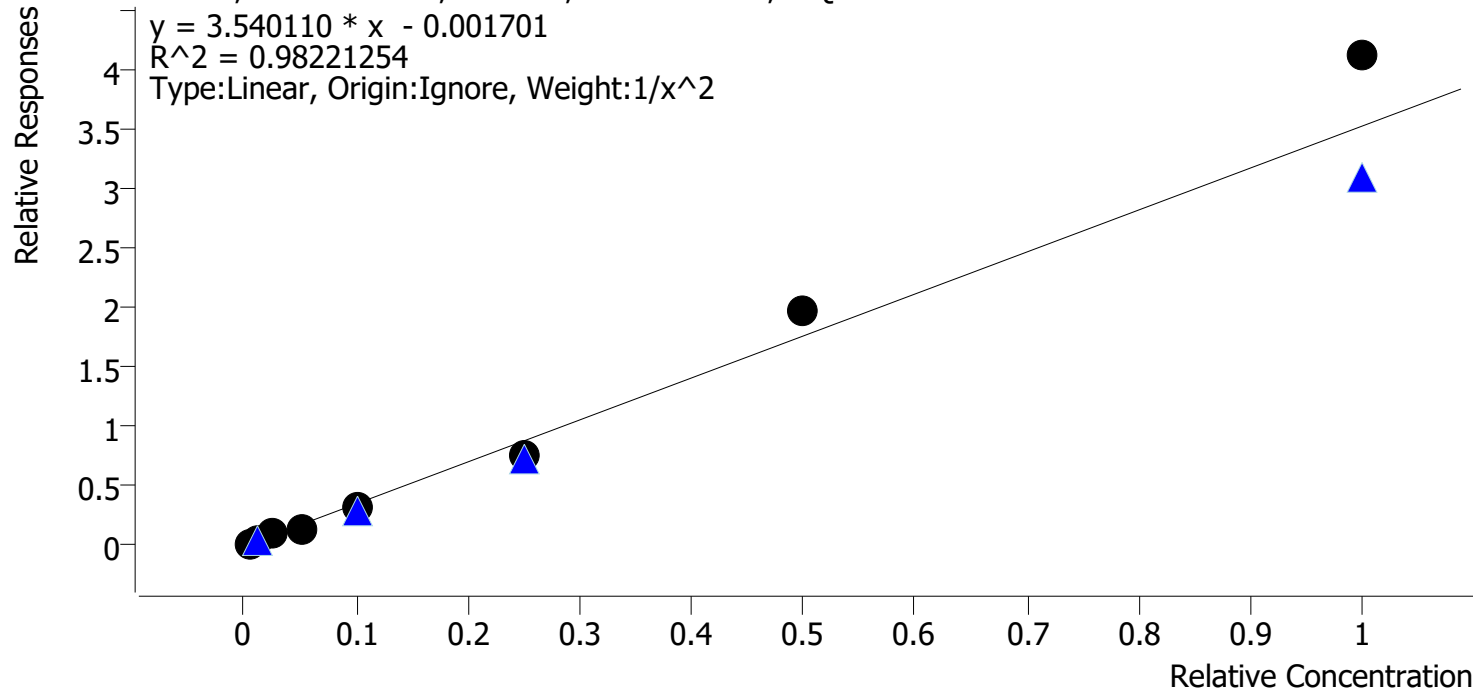


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.122	298383	2415.5	51.6	1499.0	125960	36.281 ng/ml
Dextromethorphan	5.300	22090	1427.9	75.1	9648.6	25283	39.354 ng/ml
Methamphetamine	3.284	295475	414.6	38.7	149.9	233075	49.163 ng/ml
Mirtazapine	4.645	95670	151285.2	49.1	3011.9	165938	40.228 ng/ml
Morphine	1.272	20410	646.3	25.8	44112.6	5719	33.513 ng/ml

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 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



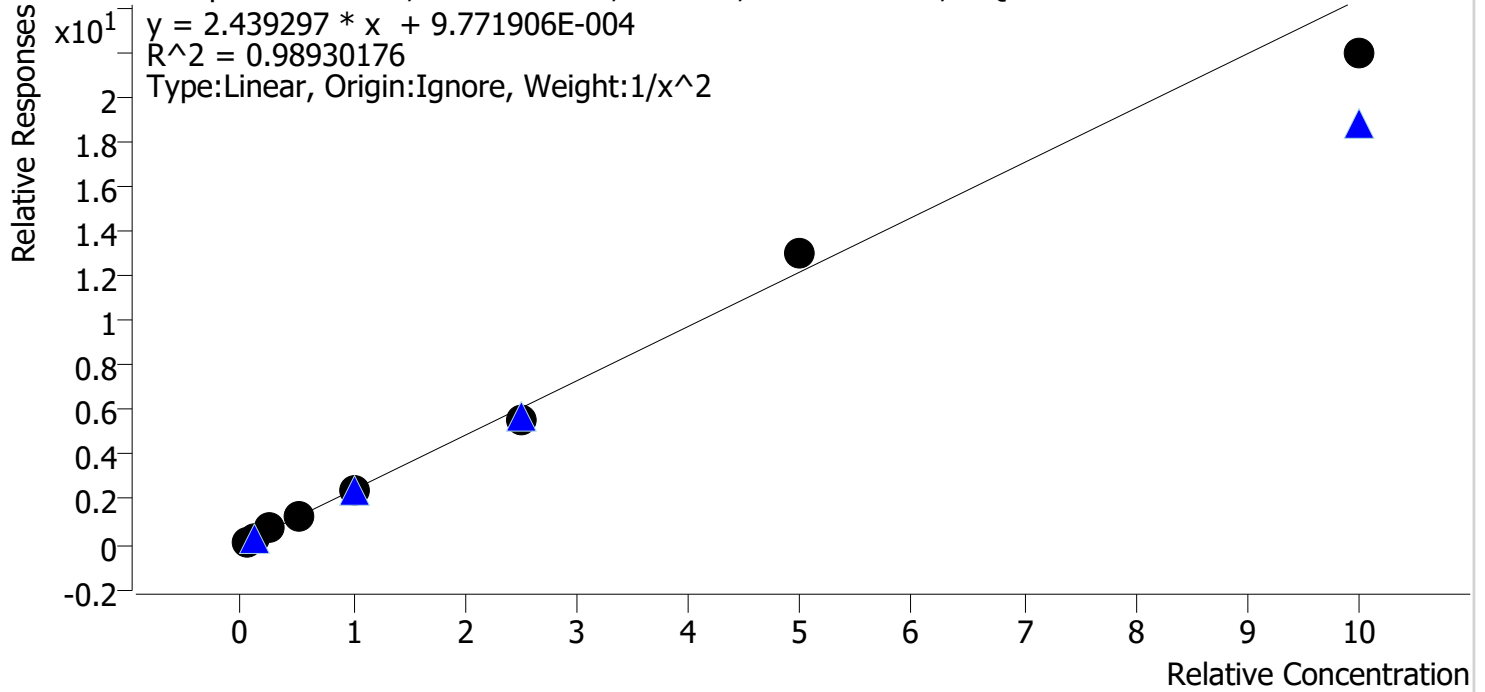
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	102.3
cal 2	2	✓	1.0	1.0	95.8
cal 3	3	✓	2.5	2.7	108.5
cal 4	4	✓	5.0	4.3	86.2
cal 5	5	✓	10.0	9.1	90.5
cal 6	6	✓	25.0	21.9	87.7
cal 7	7	✓	50.0	56.1	112.2
cal 8	8	✓	100.0	116.8	116.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 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

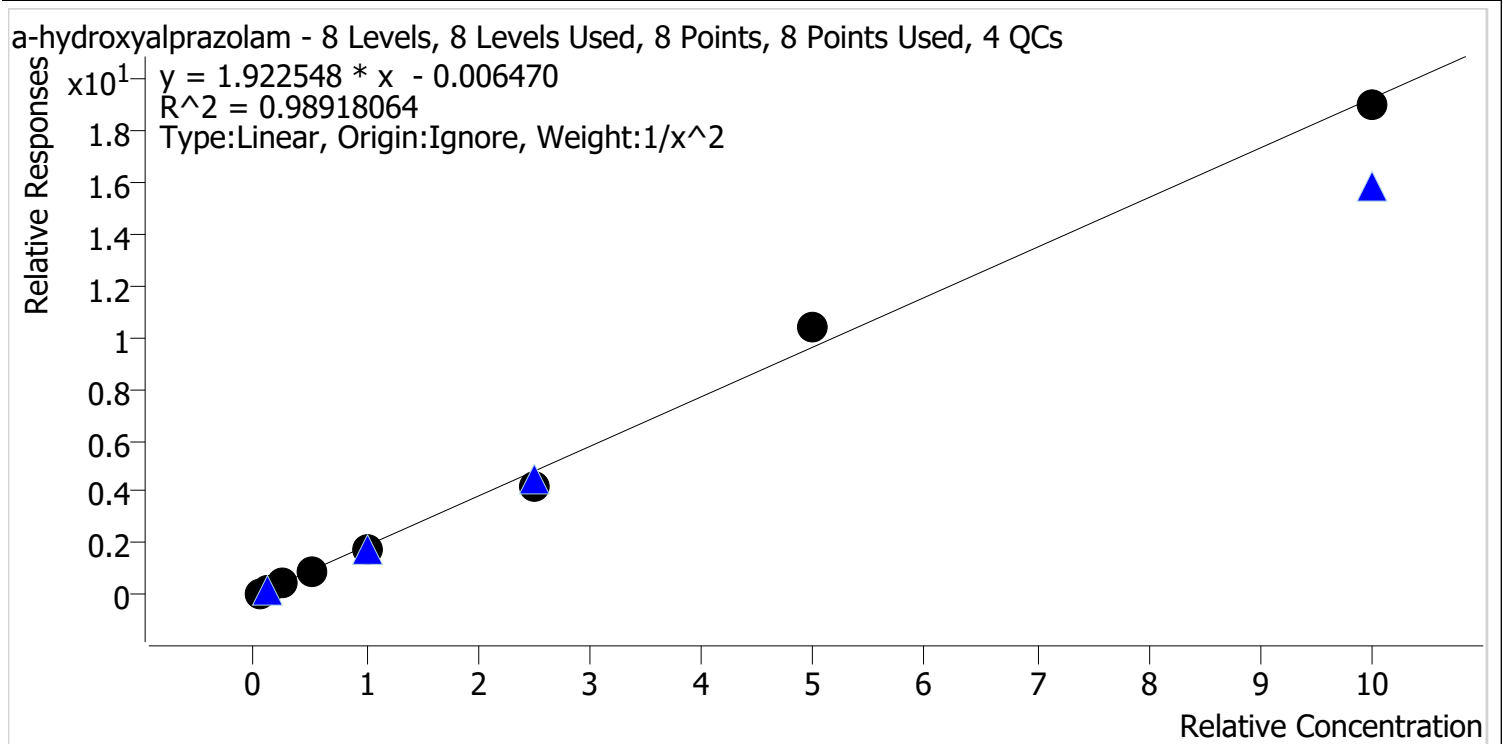


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.7
cal 2	2	✓	10.0	10.0	100.1
cal 3	3	✓	25.0	29.7	118.8
cal 4	4	✓	50.0	48.6	97.2
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	231.3	92.5
cal 7	7	✓	500.0	531.1	106.2
cal 8	8	✓	1000.0	900.3	90.0

Compound Calibration Report



Batch results	D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin		
Last Cal. Update	8/20/2019 9:16 AM		
Analyst Name	ISP\datastor		
Analyte	a-hydroxyalprazolam	Internal Standard	a-hydroxyalprazolam-D5



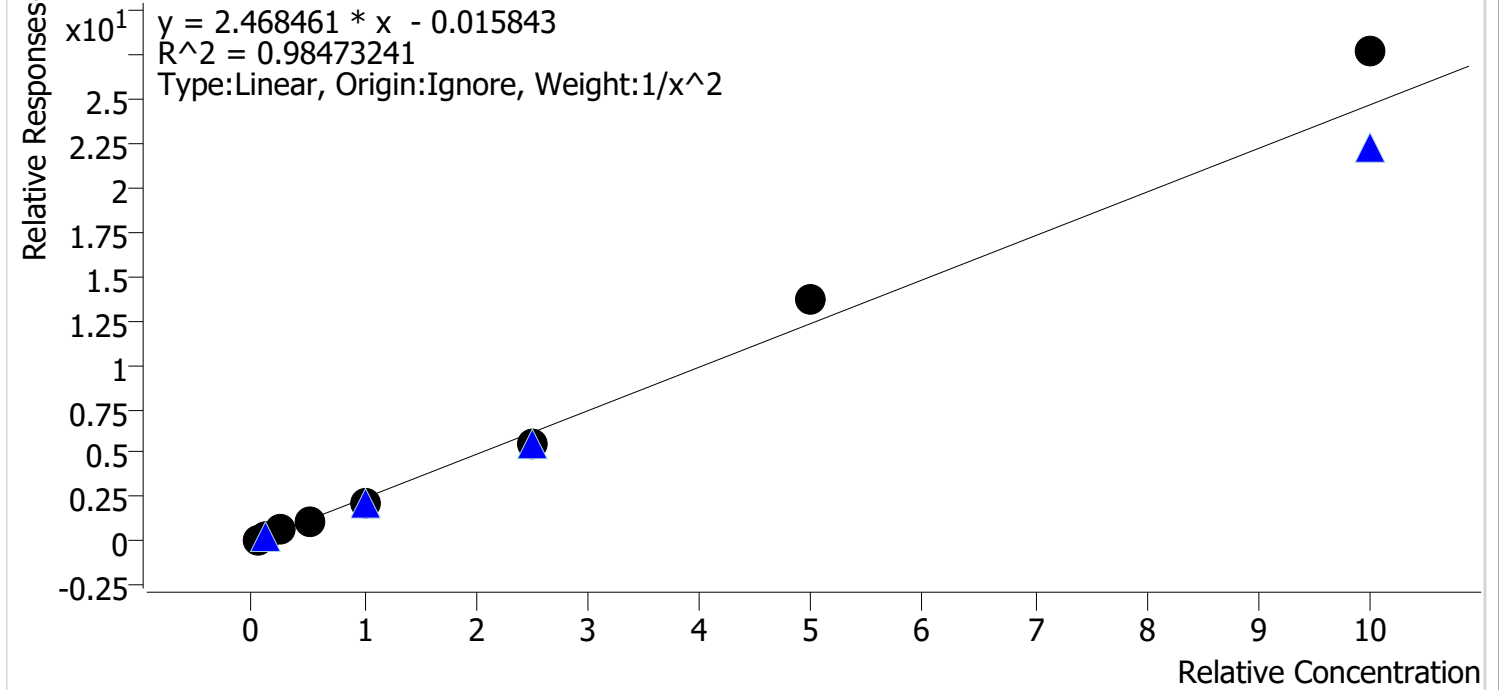
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.4
cal 2	2	✓	10.0	11.0	109.8
cal 3	3	✓	25.0	28.4	113.6
cal 4	4	✓	50.0	47.3	94.5
cal 5	5	✓	100.0	93.7	93.7
cal 6	6	✓	250.0	222.2	88.9
cal 7	7	✓	500.0	537.3	107.5
cal 8	8	✓	1000.0	985.7	98.6

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

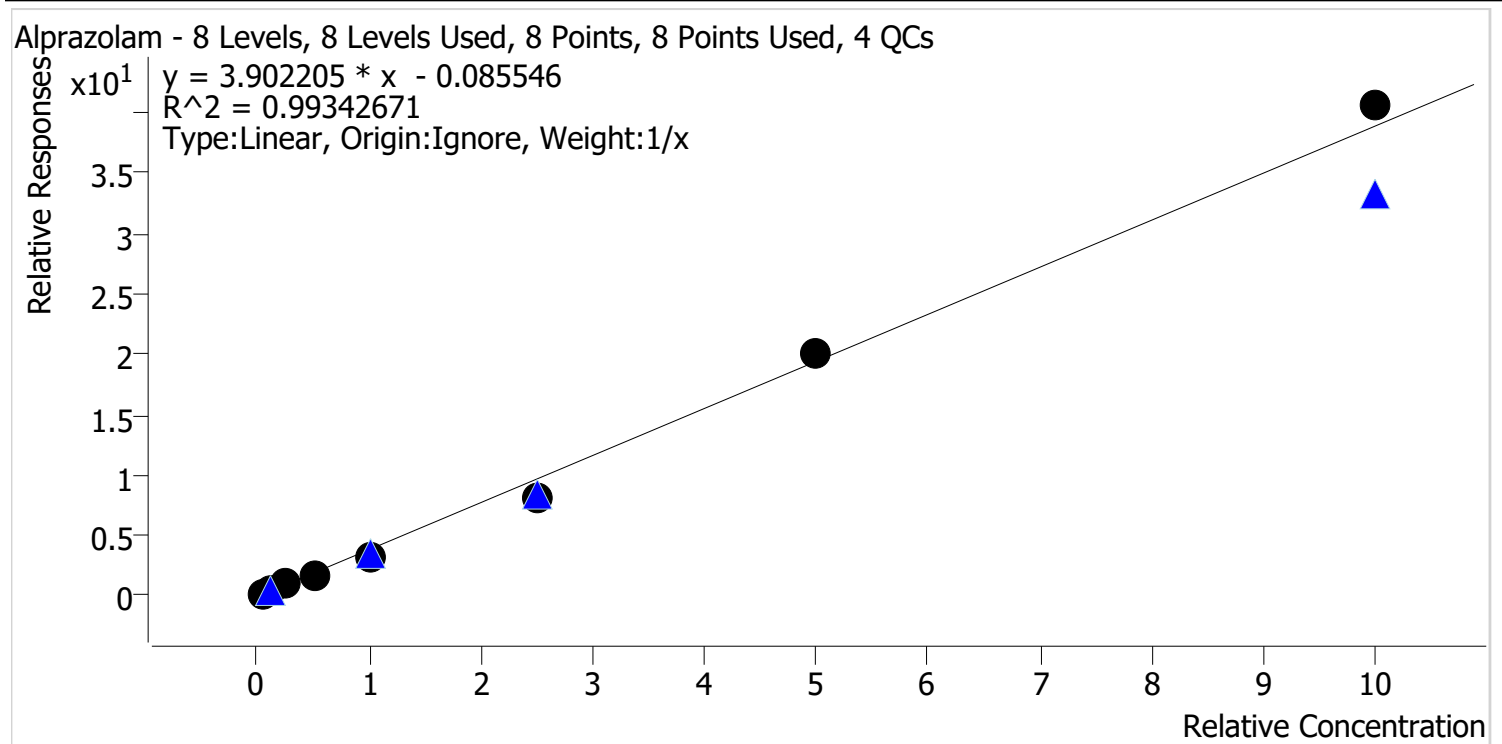
alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	9.7	96.7
cal 3	3	✓	25.0	28.1	112.6
cal 4	4	✓	50.0	44.1	88.2
cal 5	5	✓	100.0	90.0	90.0
cal 6	6	✓	250.0	220.8	88.3
cal 7	7	✓	500.0	555.9	111.2
cal 8	8	✓	1000.0	1121.6	112.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



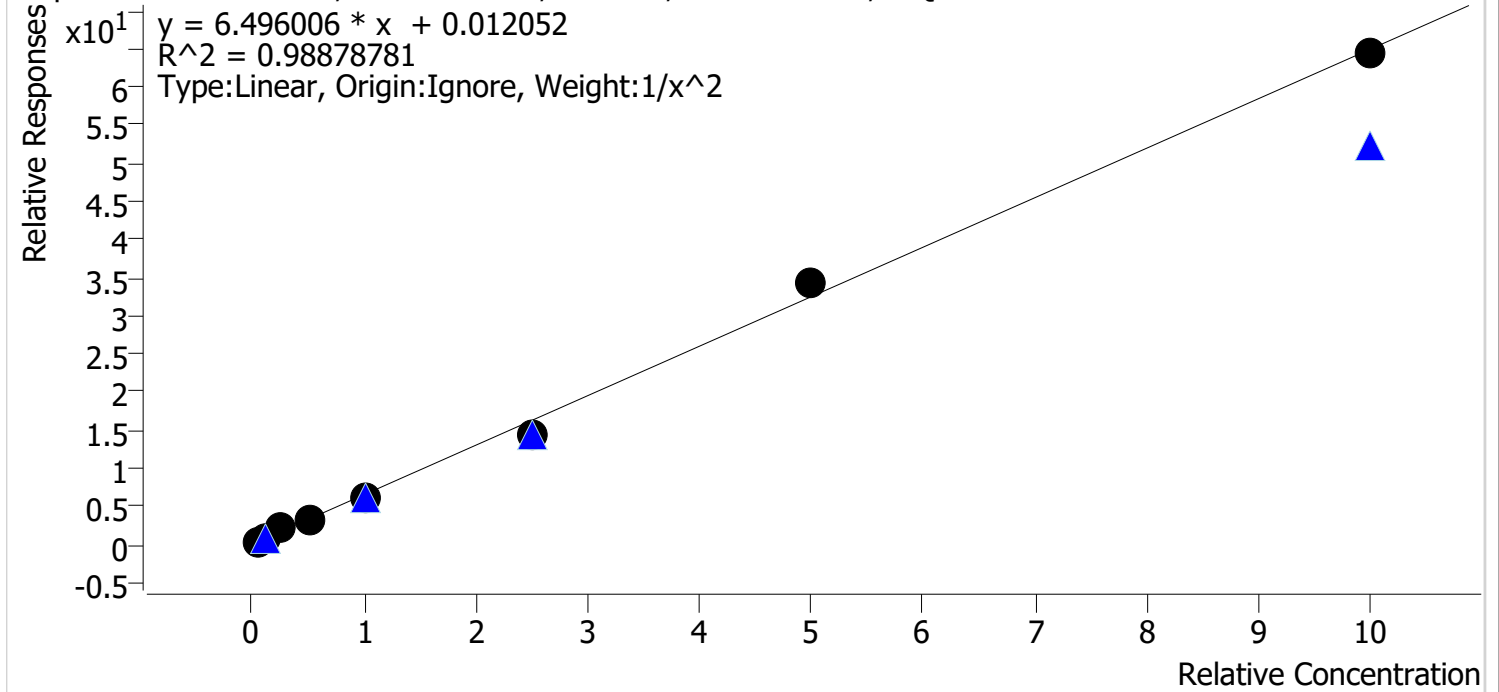
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.3	125.2
cal 2	2	✓	10.0	10.5	104.7
cal 3	3	✓	25.0	26.4	105.6
cal 4	4	✓	50.0	43.9	87.7
cal 5	5	✓	100.0	85.5	85.5
cal 6	6	✓	250.0	210.6	84.2
cal 7	7	✓	500.0	513.4	102.7
cal 8	8	✓	1000.0	1043.5	104.3



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Amphetamine

Internal Standard Amphetamine-D11

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

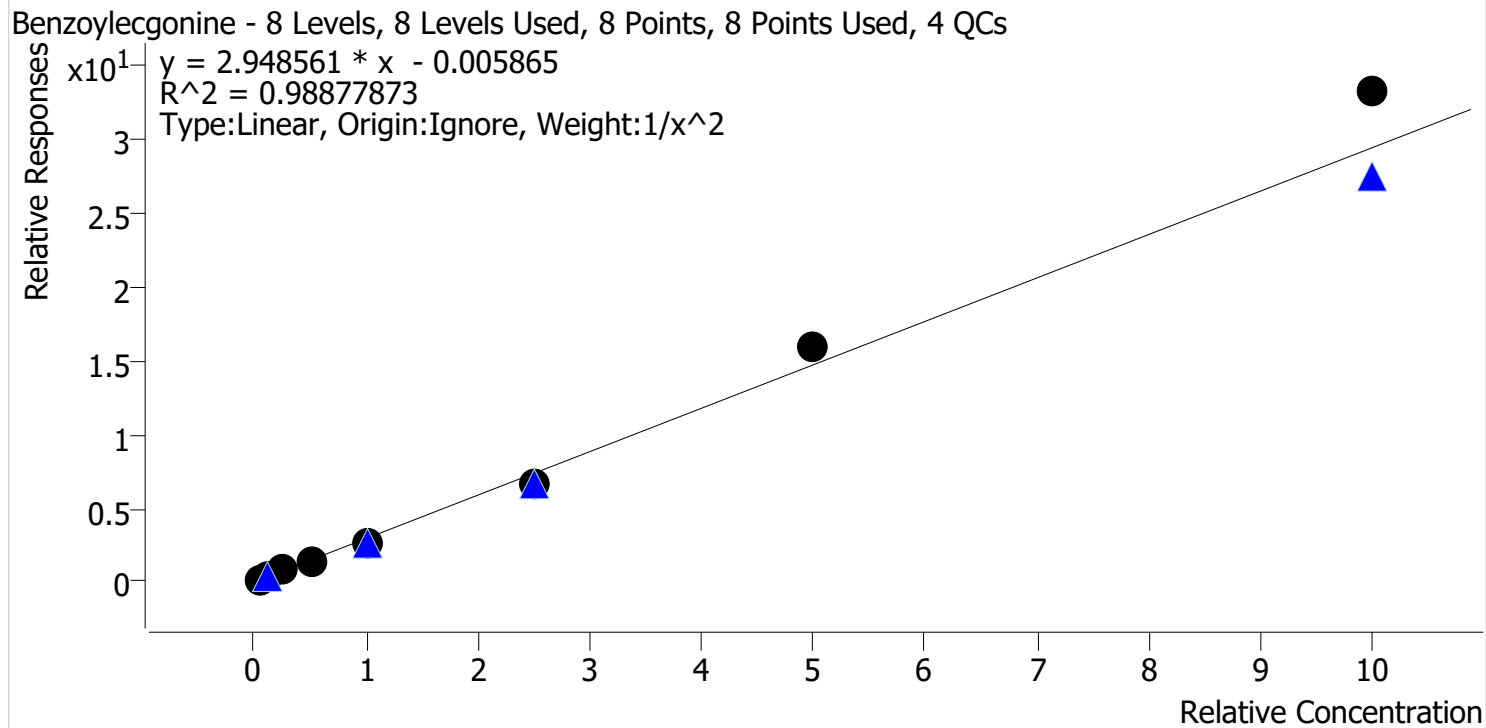


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.4
cal 2	2	✓	10.0	9.9	99.2
cal 3	3	✓	25.0	29.8	119.4
cal 4	4	✓	50.0	47.7	95.5
cal 5	5	✓	100.0	95.1	95.1
cal 6	6	✓	250.0	221.0	88.4
cal 7	7	✓	500.0	529.5	105.9
cal 8	8	✓	1000.0	991.2	99.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8

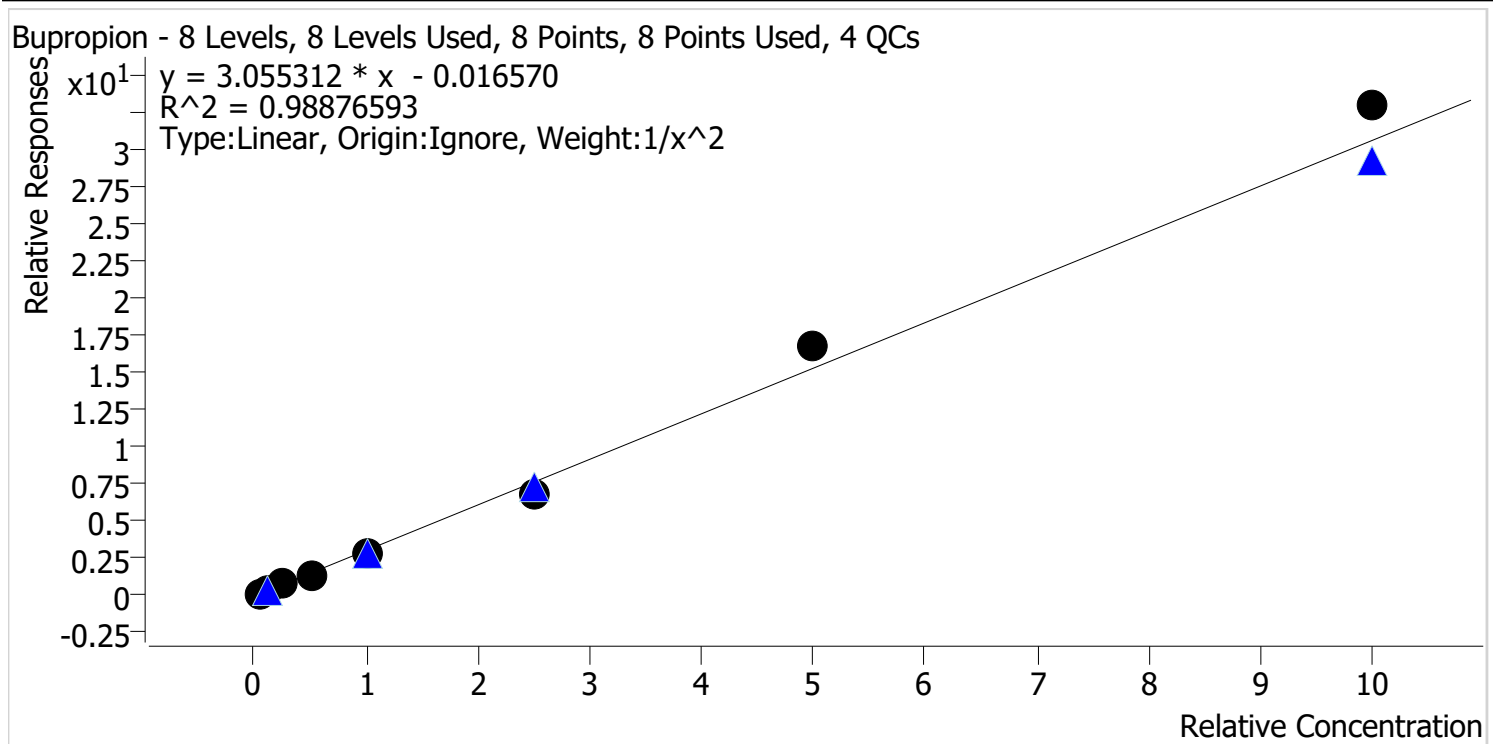


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.0
cal 2	2	✓	10.0	9.6	95.5
cal 3	3	✓	25.0	27.1	108.3
cal 4	4	✓	50.0	46.0	92.0
cal 5	5	✓	100.0	88.9	88.9
cal 6	6	✓	250.0	228.8	91.5
cal 7	7	✓	500.0	544.7	108.9
cal 8	8	✓	1000.0	1129.2	112.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.4
cal 2	2	✓	10.0	9.7	96.9
cal 3	3	✓	25.0	28.2	113.0
cal 4	4	✓	50.0	45.5	90.9
cal 5	5	✓	100.0	91.4	91.4
cal 6	6	✓	250.0	224.4	89.8
cal 7	7	✓	500.0	550.4	110.1
cal 8	8	✓	1000.0	1076.5	107.6

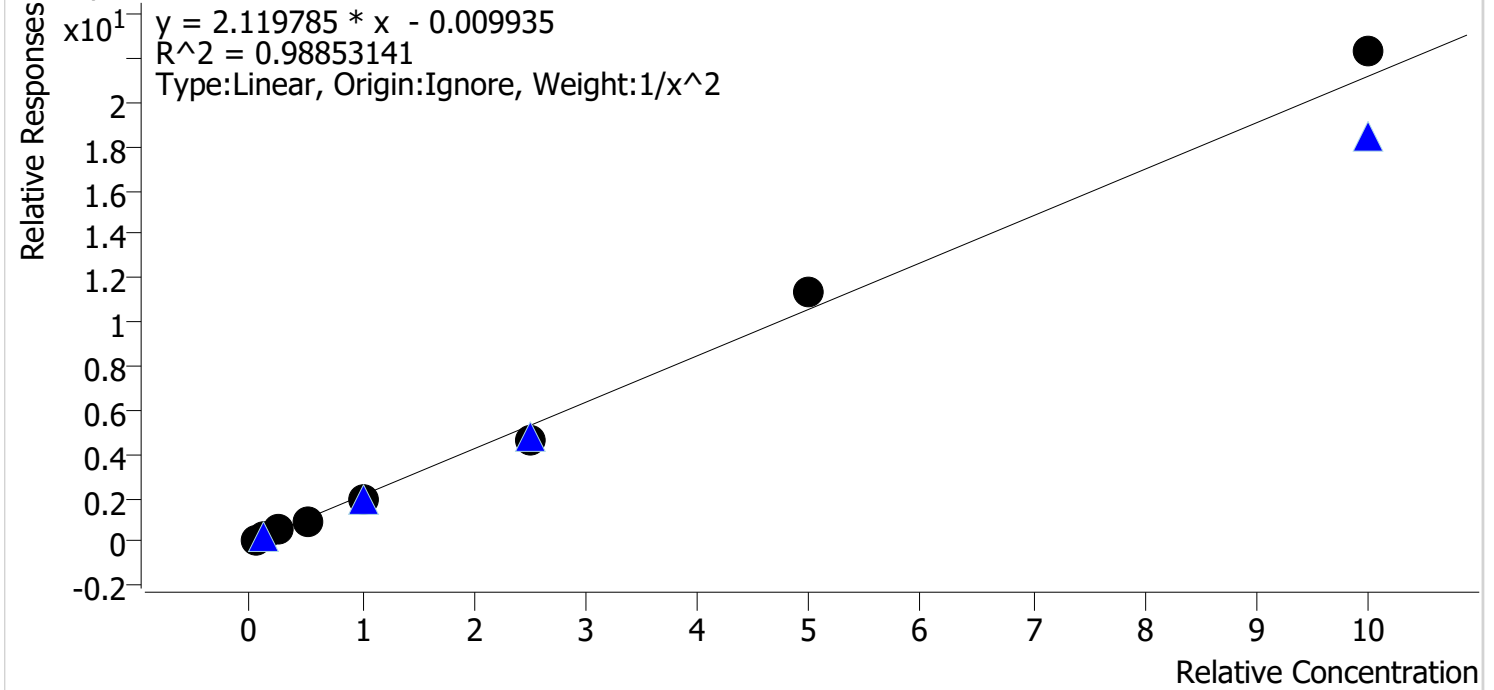
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Carisoprodol

Internal Standard Carisoprodol-D7

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



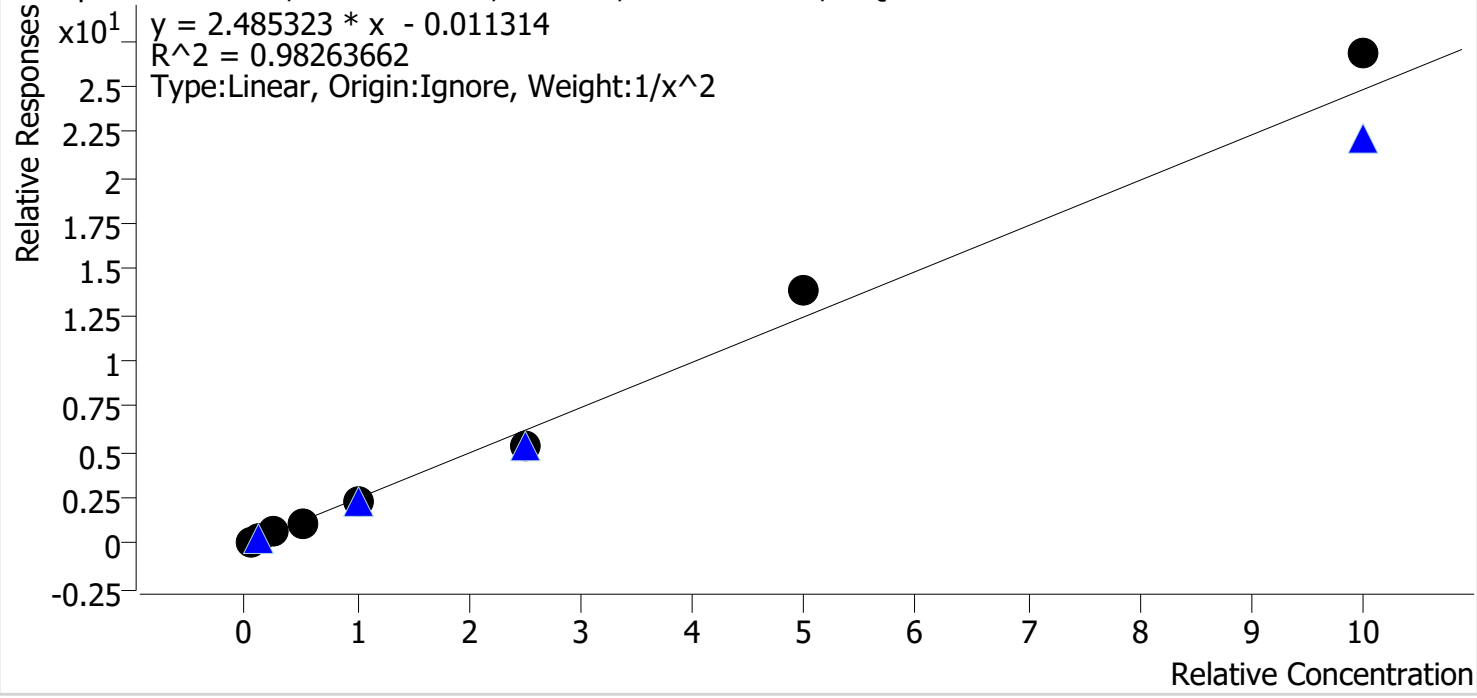
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.2
cal 2	2	✓	10.0	10.3	102.5
cal 3	3	✓	25.0	28.8	115.2
cal 4	4	✓	50.0	45.2	90.5
cal 5	5	✓	100.0	92.3	92.3
cal 6	6	✓	250.0	222.4	89.0
cal 7	7	✓	500.0	540.8	108.2
cal 8	8	✓	1000.0	1052.9	105.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



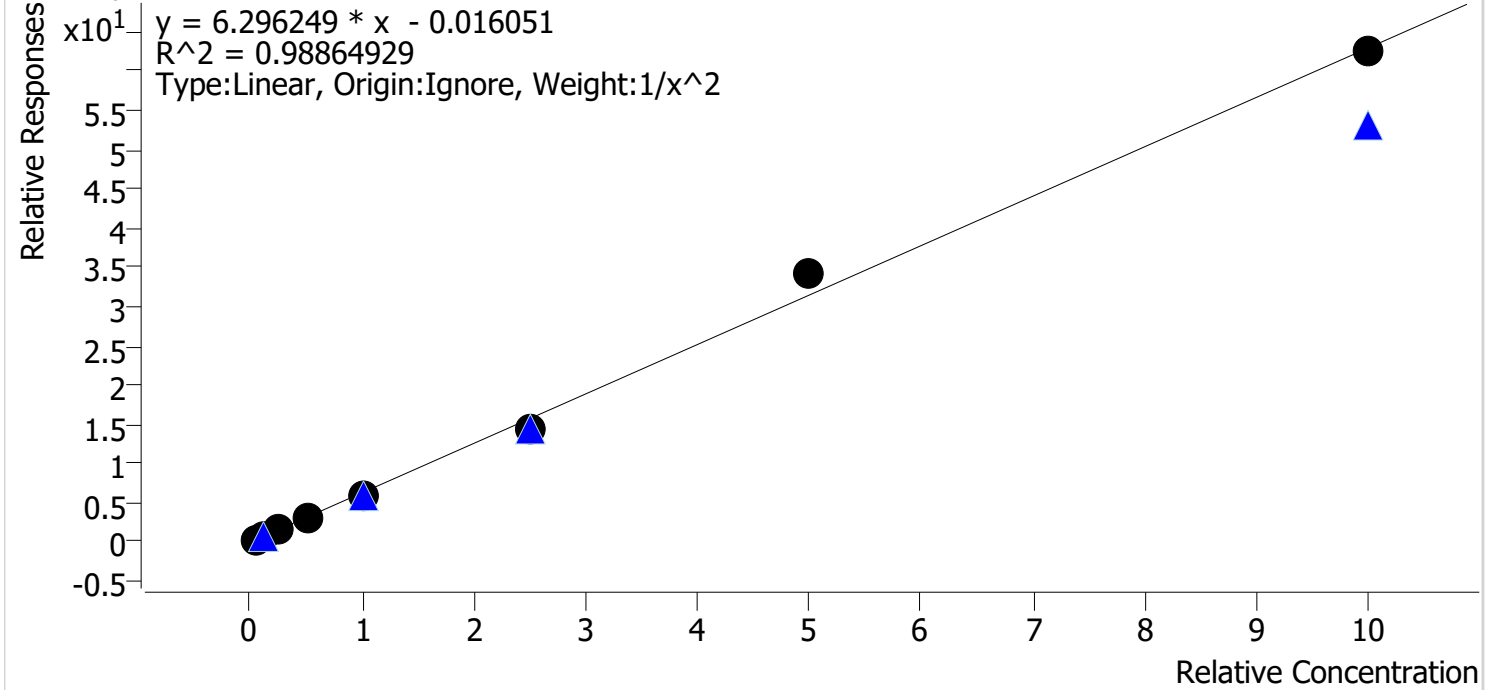
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.8
cal 2	2	✓	10.0	9.9	99.0
cal 3	3	✓	25.0	29.4	117.7
cal 4	4	✓	50.0	43.6	87.1
cal 5	5	✓	100.0	91.4	91.4
cal 6	6	✓	250.0	216.3	86.5
cal 7	7	✓	500.0	557.6	111.5
cal 8	8	✓	1000.0	1079.2	107.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Clonazepam

Internal Standard Clonazepam-D4

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

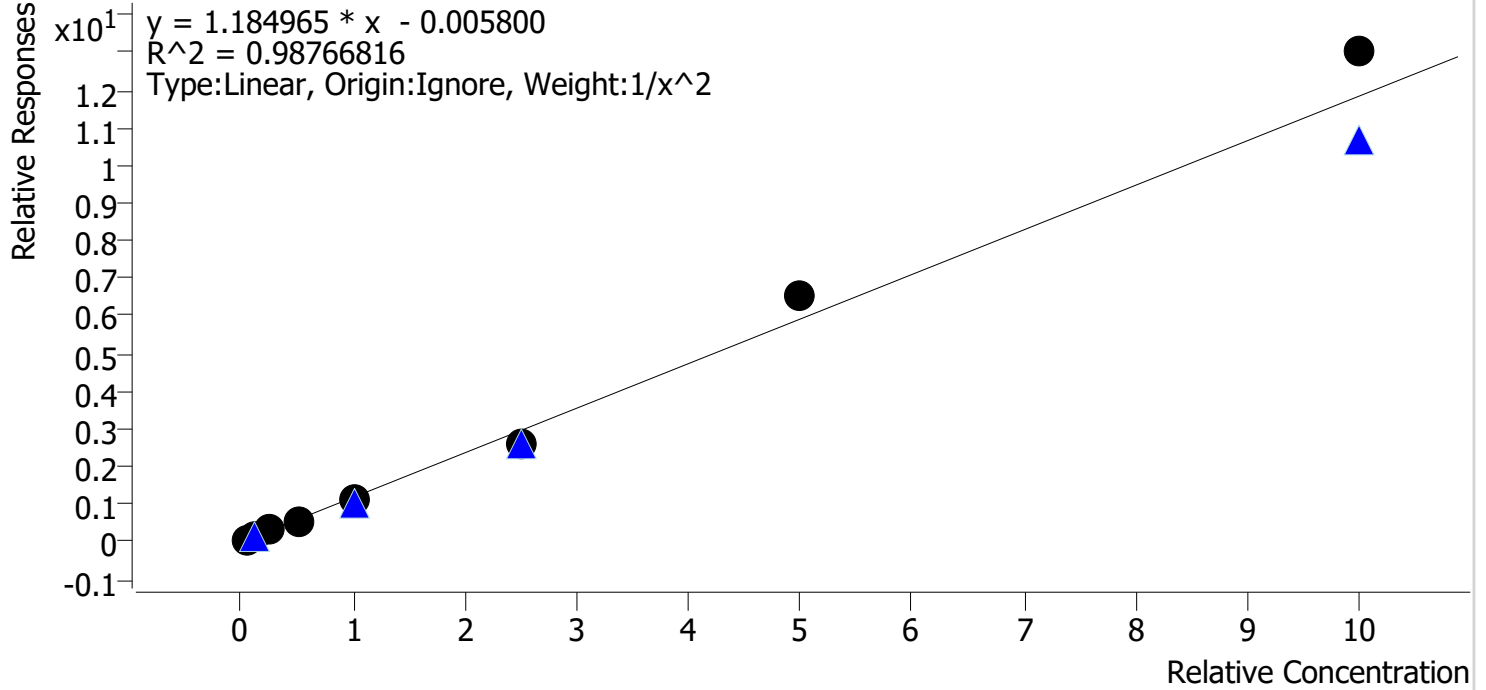


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	9.6	95.9
cal 3	3	✓	25.0	29.8	119.1
cal 4	4	✓	50.0	47.2	94.3
cal 5	5	✓	100.0	92.2	92.2
cal 6	6	✓	250.0	229.8	91.9
cal 7	7	✓	500.0	540.3	108.1
cal 8	8	✓	1000.0	992.6	99.3



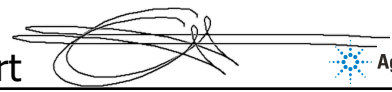
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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



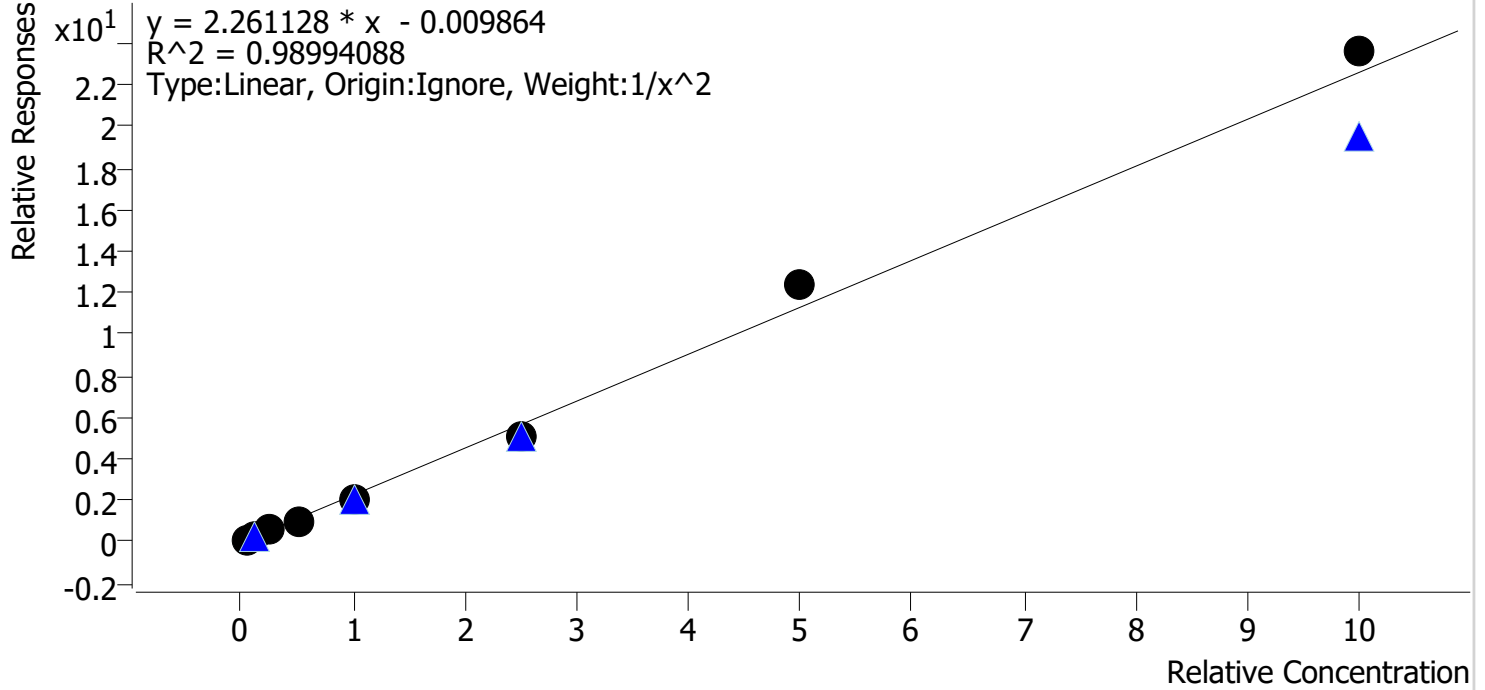
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	9.8	98.4
cal 3	3	✓	25.0	27.8	111.0
cal 4	4	✓	50.0	44.6	89.1
cal 5	5	✓	100.0	91.0	91.0
cal 6	6	✓	250.0	223.1	89.3
cal 7	7	✓	500.0	554.9	111.0
cal 8	8	✓	1000.0	1099.8	110.0

Compound Calibration Report



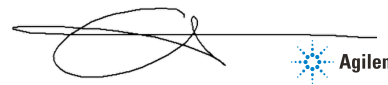
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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



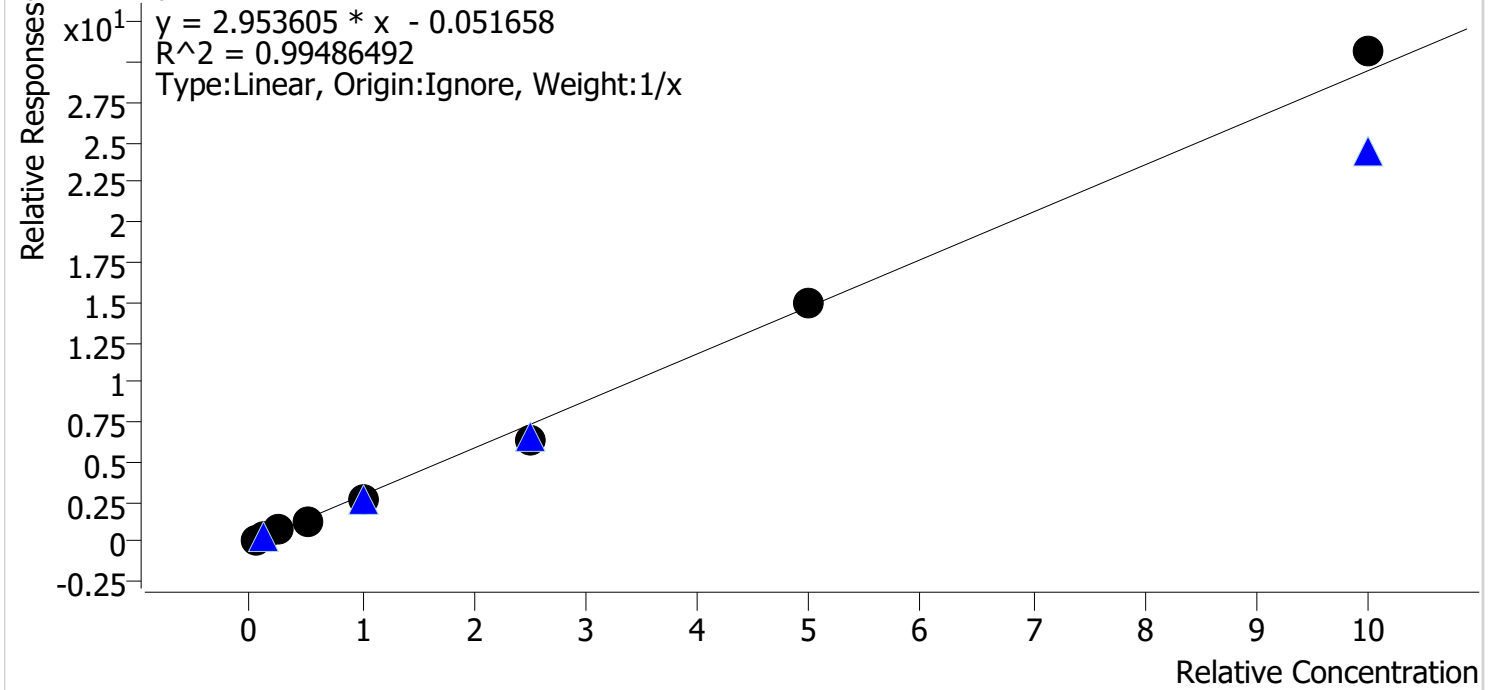
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.5
cal 2	2	✓	10.0	9.8	97.8
cal 3	3	✓	25.0	28.6	114.4
cal 4	4	✓	50.0	46.1	92.1
cal 5	5	✓	100.0	93.1	93.1
cal 6	6	✓	250.0	223.9	89.5
cal 7	7	✓	500.0	545.7	109.1
cal 8	8	✓	1000.0	1044.2	104.4

Compound Calibration Report



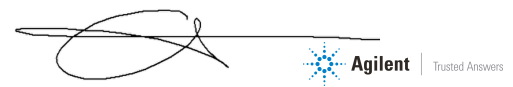
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.0	119.9
cal 2	2	✓	10.0	9.8	98.5
cal 3	3	✓	25.0	28.5	113.9
cal 4	4	✓	50.0	43.7	87.5
cal 5	5	✓	100.0	88.3	88.3
cal 6	6	✓	250.0	216.2	86.5
cal 7	7	✓	500.0	507.1	101.4
cal 8	8	✓	1000.0	1040.4	104.0

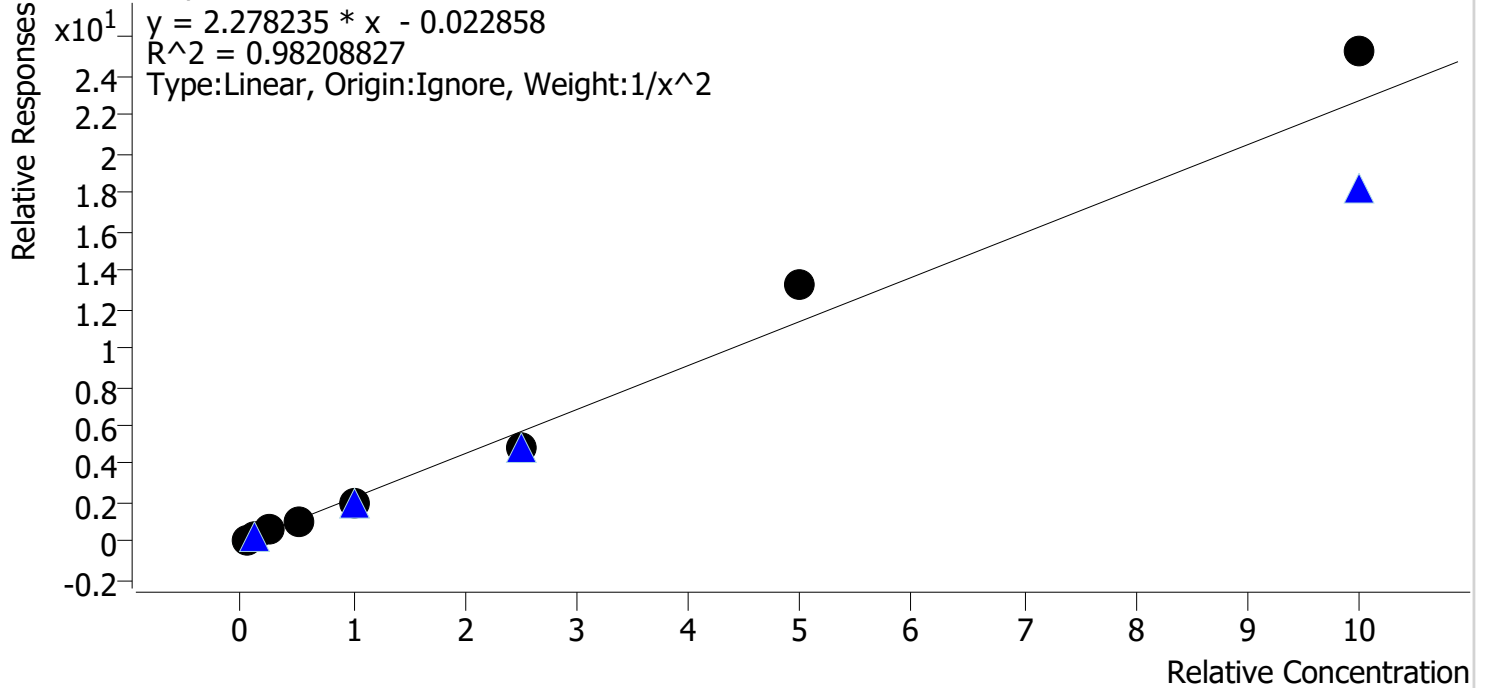
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan

Internal Standard Dextromethorphan-D3

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

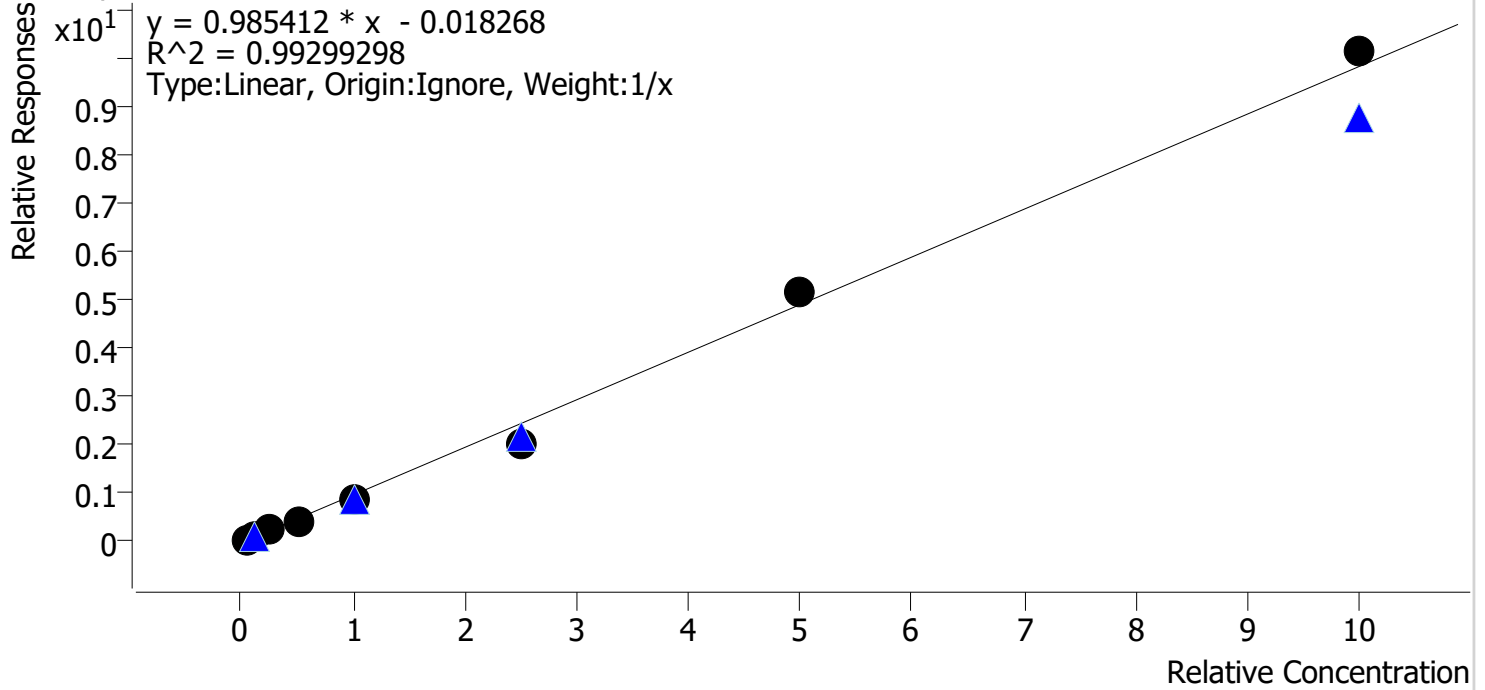


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.6
cal 2	2	✓	10.0	9.8	98.3
cal 3	3	✓	25.0	27.6	110.4
cal 4	4	✓	50.0	43.5	87.0
cal 5	5	✓	100.0	91.4	91.4
cal 6	6	✓	250.0	212.6	85.0
cal 7	7	✓	500.0	580.7	116.1
cal 8	8	✓	1000.0	1111.2	111.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

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

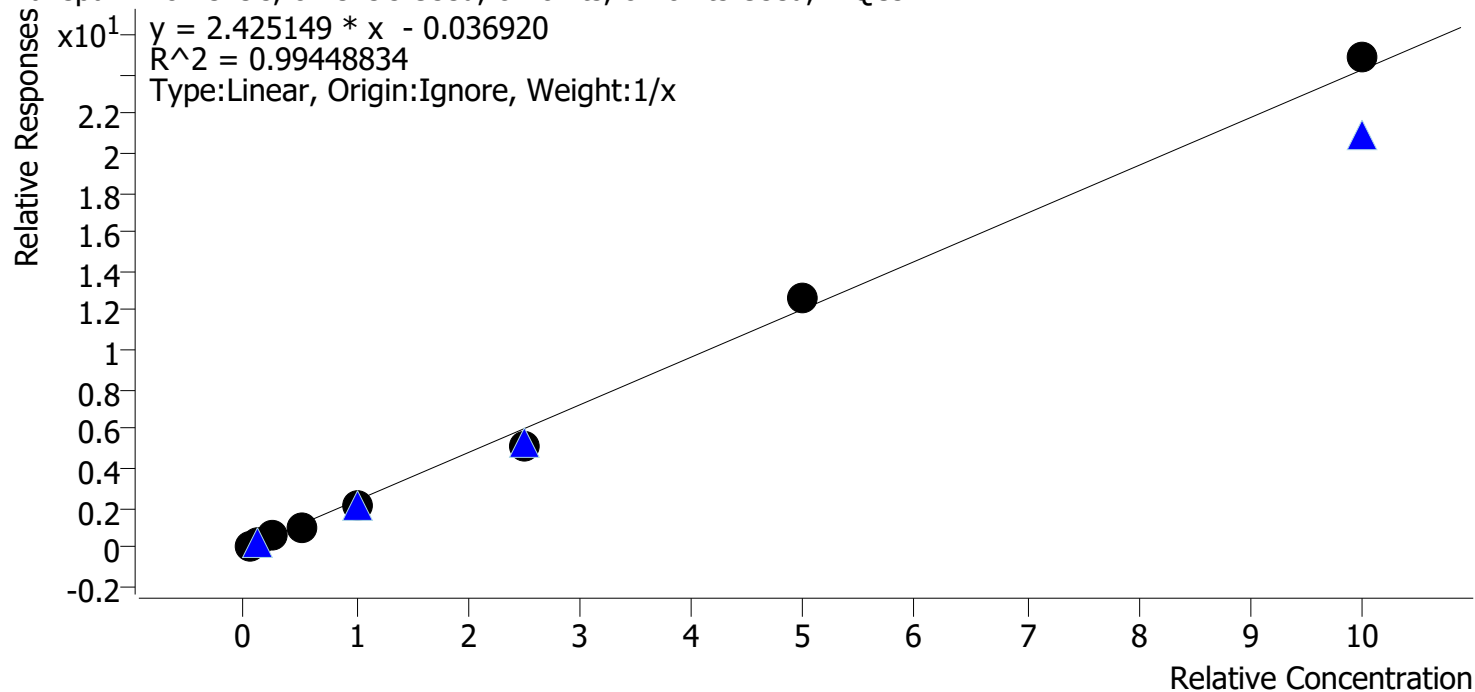


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.0	120.3
cal 2	2	✓	10.0	10.4	104.2
cal 3	3	✓	25.0	27.4	109.8
cal 4	4	✓	50.0	43.1	86.2
cal 5	5	✓	100.0	88.3	88.3
cal 6	6	✓	250.0	207.2	82.9
cal 7	7	✓	500.0	526.3	105.3
cal 8	8	✓	1000.0	1031.3	103.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

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

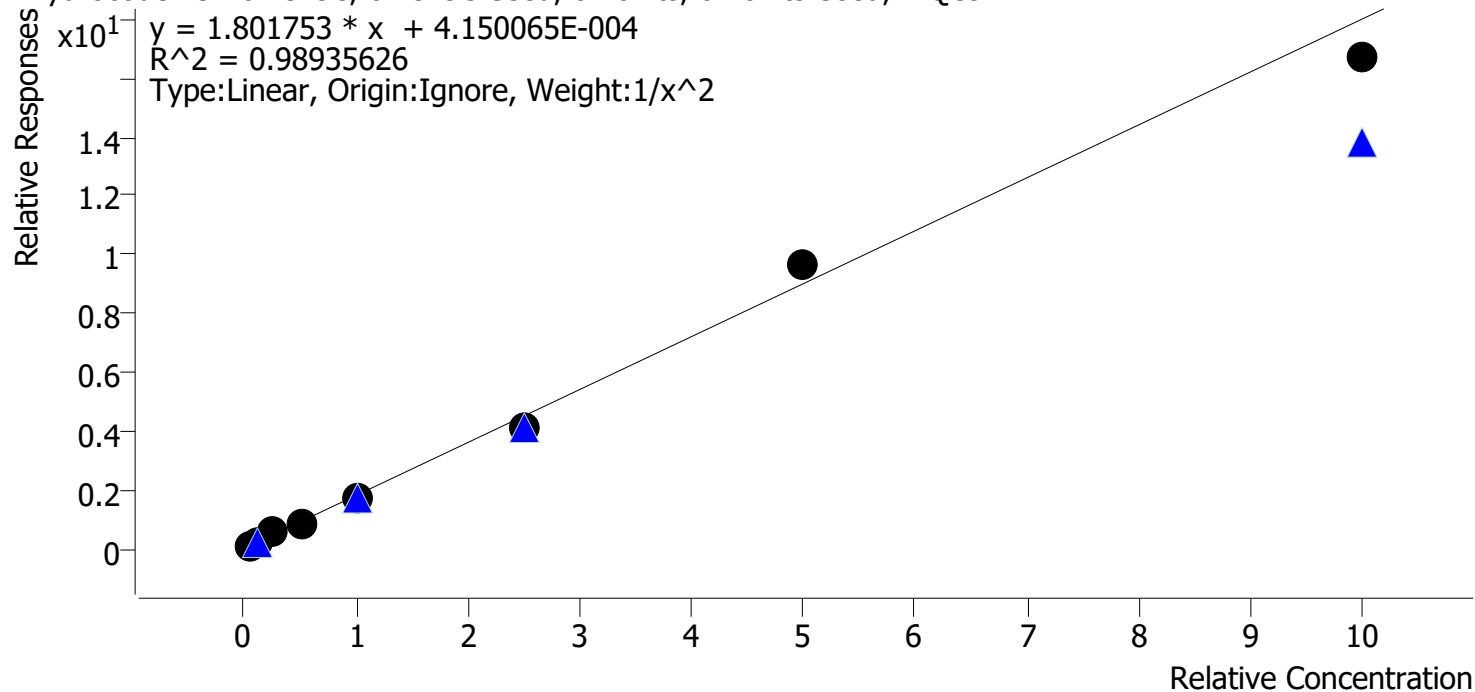


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.8	115.5
cal 2	2	✓	10.0	10.4	103.9
cal 3	3	✓	25.0	27.8	111.4
cal 4	4	✓	50.0	44.4	88.9
cal 5	5	✓	100.0	87.2	87.2
cal 6	6	✓	250.0	214.0	85.6
cal 7	7	✓	500.0	525.0	105.0
cal 8	8	✓	1000.0	1025.4	102.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

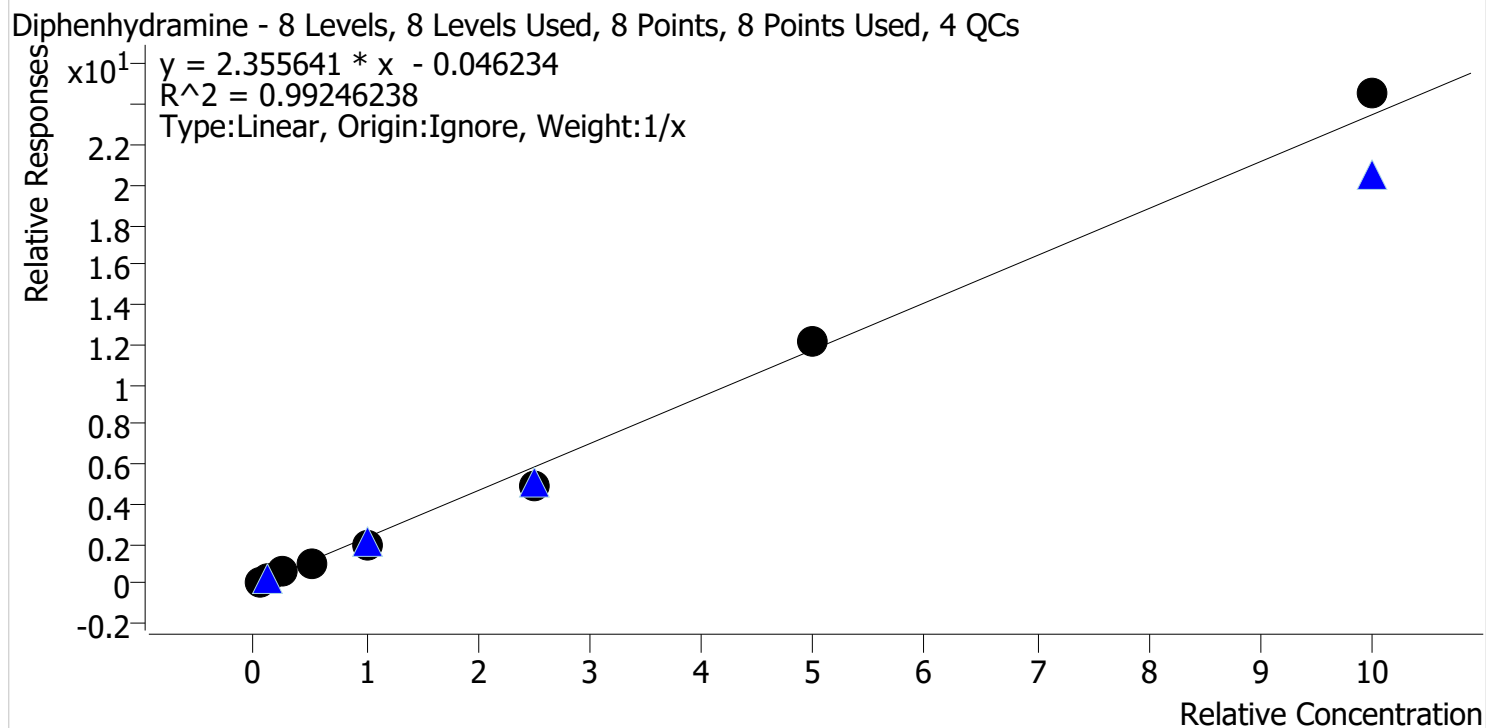


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.3
cal 2	2	✓	10.0	9.9	99.0
cal 3	3	✓	25.0	29.7	119.0
cal 4	4	✓	50.0	48.1	96.3
cal 5	5	✓	100.0	97.4	97.4
cal 6	6	✓	250.0	228.1	91.2
cal 7	7	✓	500.0	535.2	107.0
cal 8	8	✓	1000.0	927.2	92.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

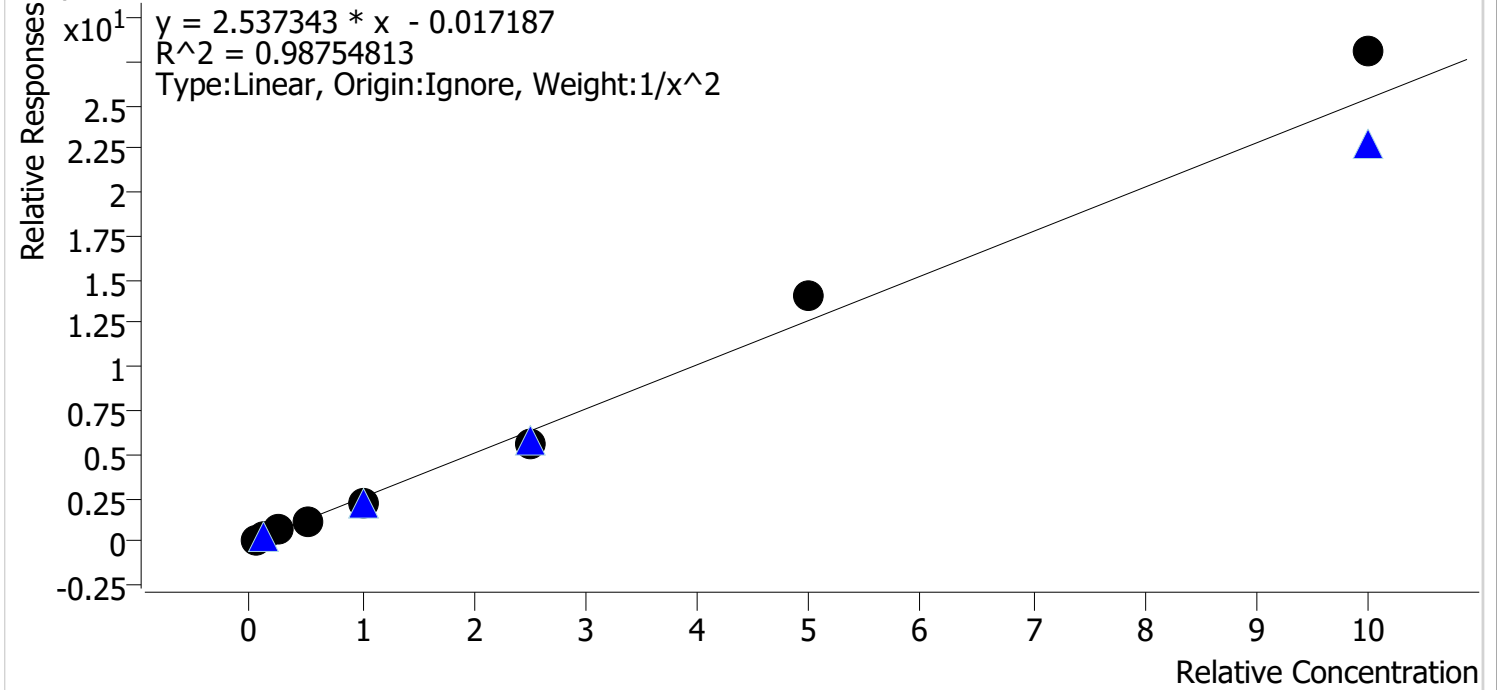


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.2	124.0
cal 2	2	✓	10.0	10.4	103.7
cal 3	3	✓	25.0	27.4	109.5
cal 4	4	✓	50.0	43.1	86.2
cal 5	5	✓	100.0	86.6	86.6
cal 6	6	✓	250.0	206.1	82.5
cal 7	7	✓	500.0	515.3	103.1
cal 8	8	✓	1000.0	1044.9	104.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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



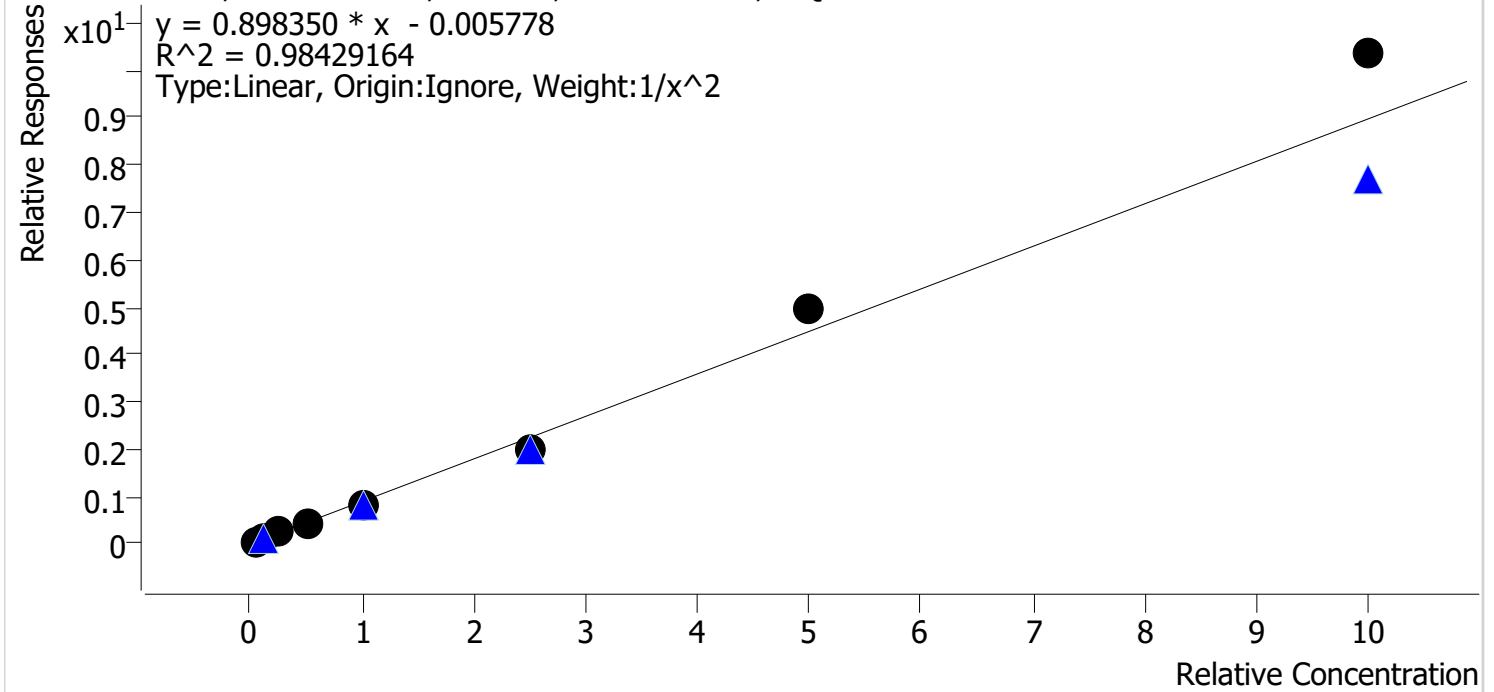
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.1
cal 2	2	✓	10.0	9.7	96.6
cal 3	3	✓	25.0	27.8	111.0
cal 4	4	✓	50.0	44.6	89.3
cal 5	5	✓	100.0	90.8	90.8
cal 6	6	✓	250.0	224.6	89.8
cal 7	7	✓	500.0	553.8	110.8
cal 8	8	✓	1000.0	1106.0	110.6

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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

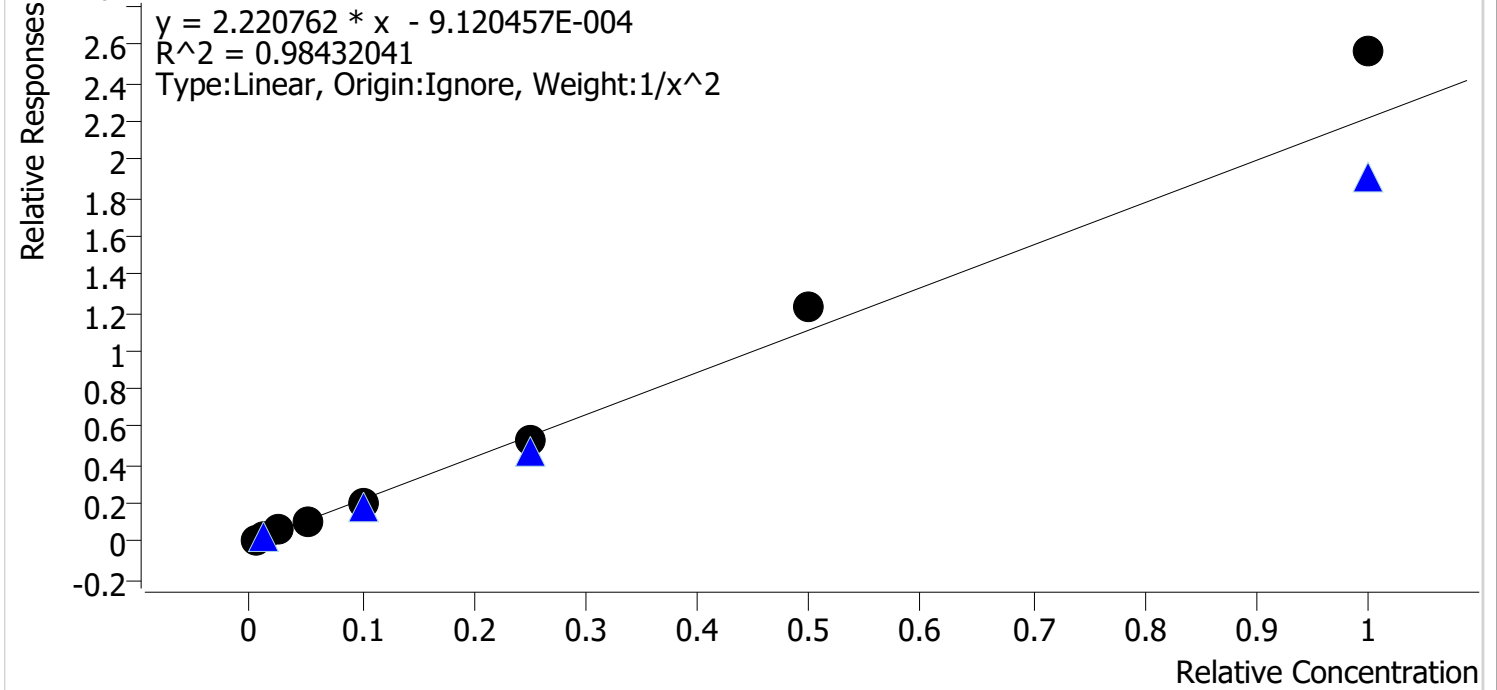


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.1	100.6
cal 3	3	✓	25.0	27.1	108.2
cal 4	4	✓	50.0	44.1	88.2
cal 5	5	✓	100.0	87.3	87.3
cal 6	6	✓	250.0	223.2	89.3
cal 7	7	✓	500.0	555.4	111.1
cal 8	8	✓	1000.0	1153.7	115.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

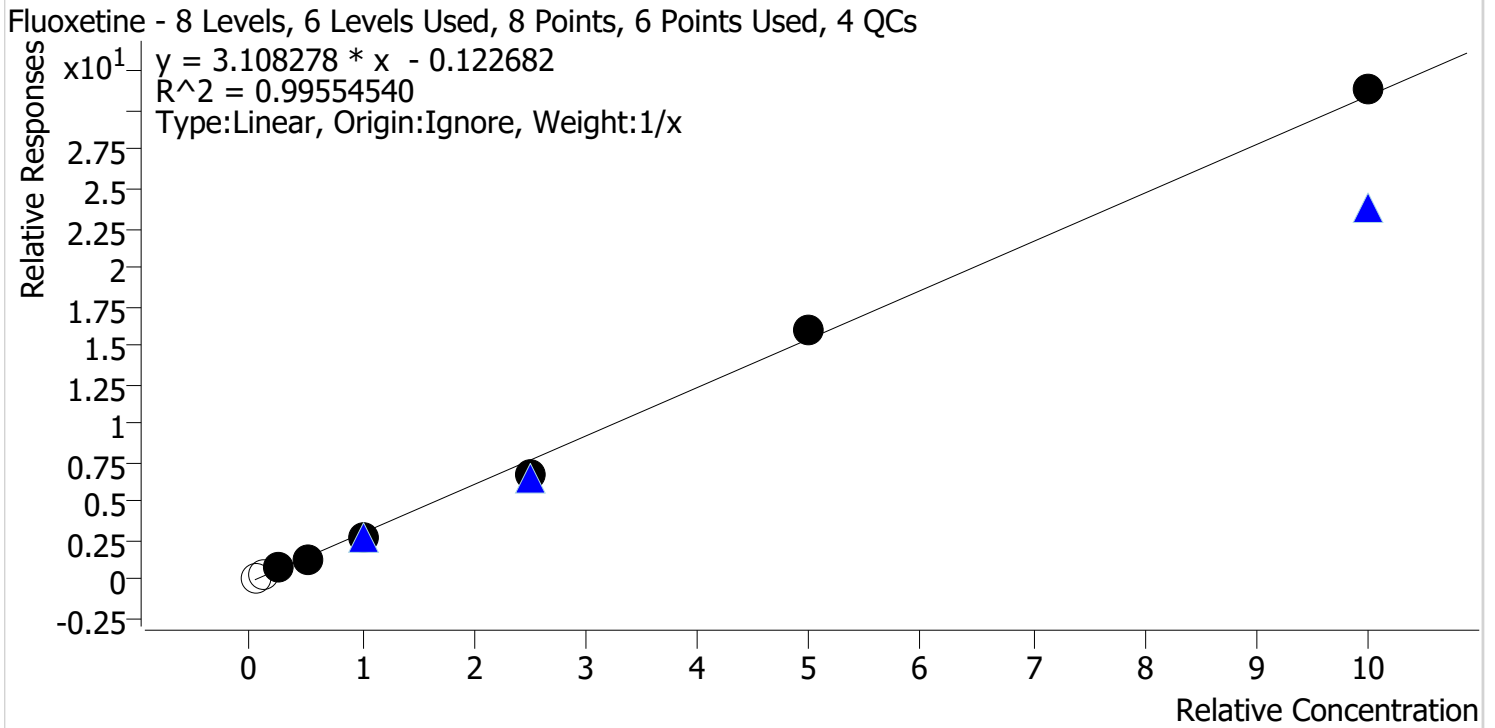
Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	106.5
cal 2	2	✓	1.0	0.9	87.8
cal 3	3	✓	2.5	2.6	105.9
cal 4	4	✓	5.0	4.4	88.8
cal 5	5	✓	10.0	8.9	89.0
cal 6	6	✓	25.0	24.0	96.1
cal 7	7	✓	50.0	55.2	110.4
cal 8	8	✓	100.0	115.6	115.6



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

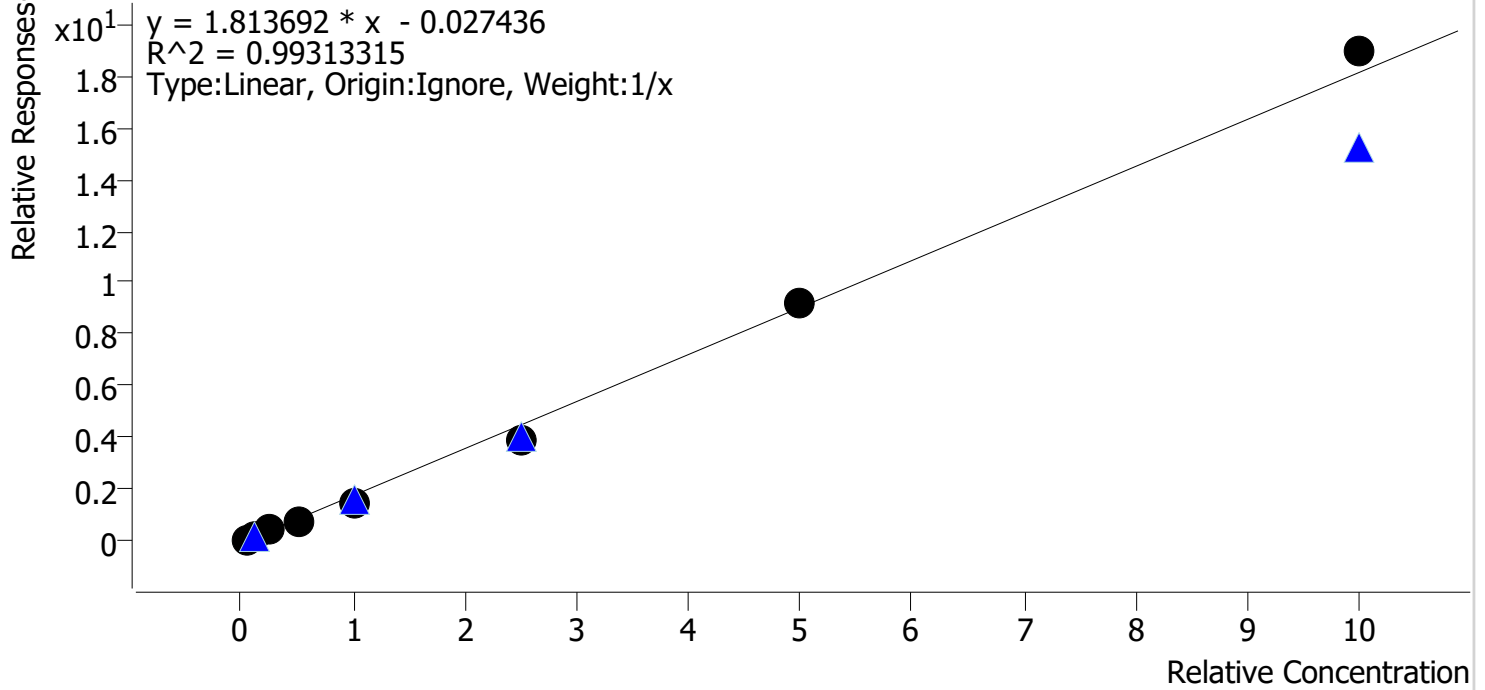


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	8.3	165.3
cal 2	2	x	10.0	12.2	121.6
cal 3	3	✓	25.0	30.2	121.0
cal 4	4	✓	50.0	45.9	91.8
cal 5	5	✓	100.0	93.4	93.4
cal 6	6	✓	250.0	220.4	88.1
cal 7	7	✓	500.0	521.9	104.4
cal 8	8	✓	1000.0	1013.2	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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

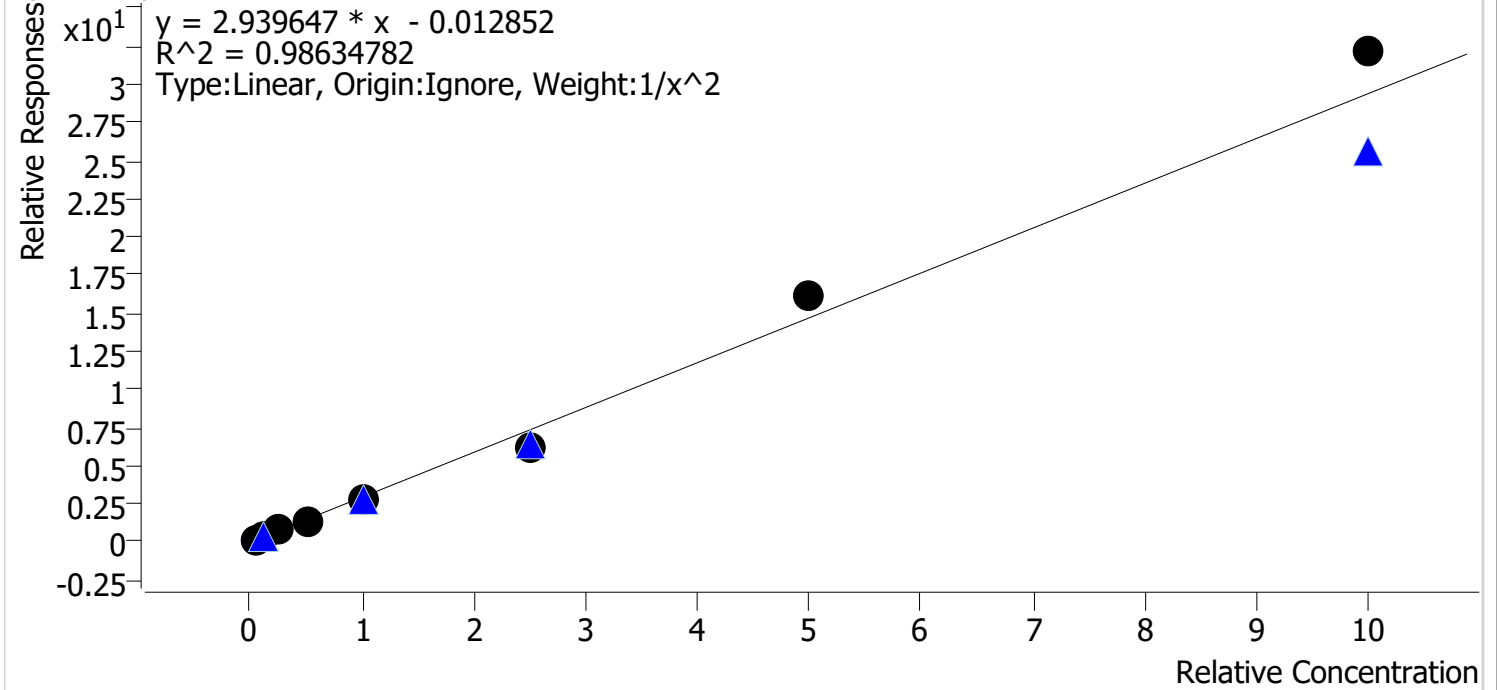


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.1	121.3
cal 2	2	✓	10.0	10.8	108.4
cal 3	3	✓	25.0	27.8	111.2
cal 4	4	✓	50.0	42.2	84.4
cal 5	5	✓	100.0	82.1	82.1
cal 6	6	✓	250.0	214.8	85.9
cal 7	7	✓	500.0	512.0	102.4
cal 8	8	✓	1000.0	1044.3	104.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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

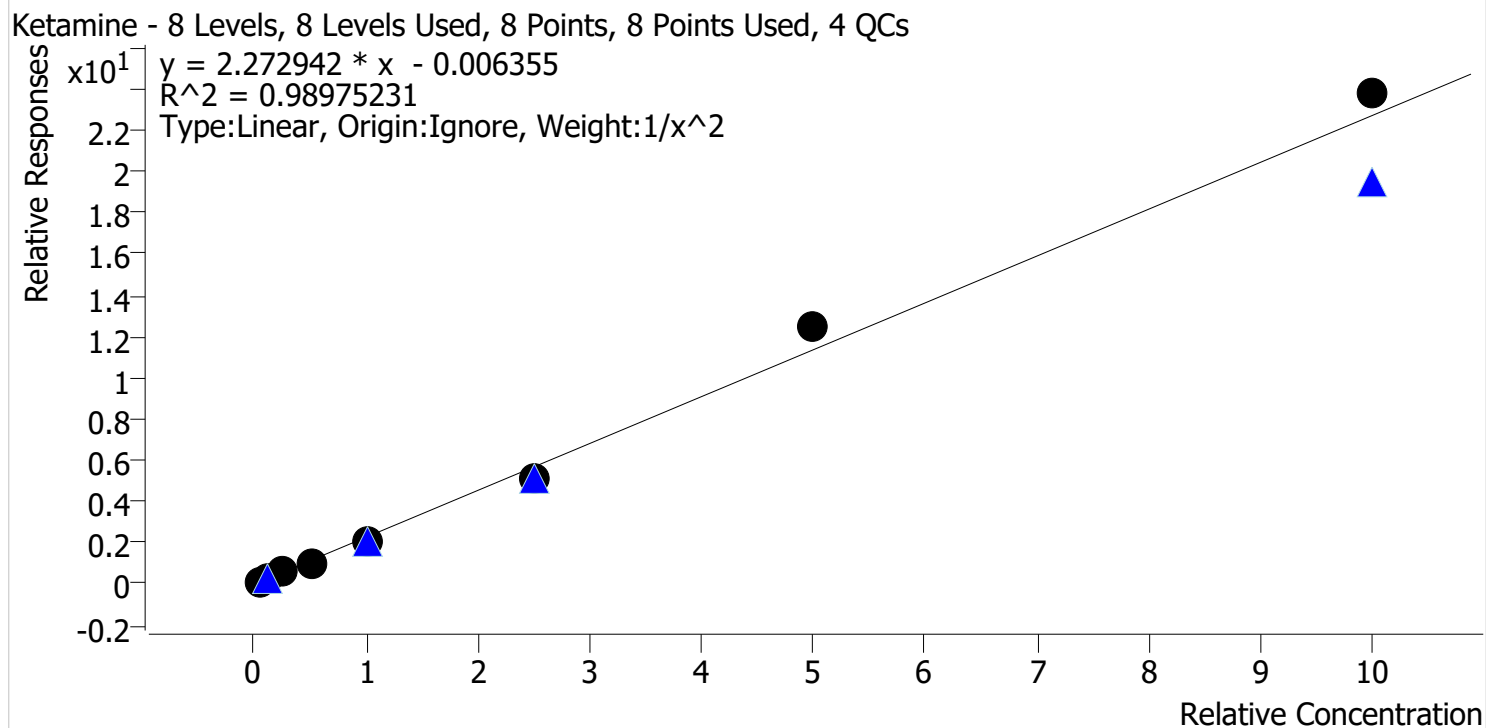


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.8
cal 2	2	✓	10.0	9.8	98.0
cal 3	3	✓	25.0	28.3	113.3
cal 4	4	✓	50.0	45.7	91.3
cal 5	5	✓	100.0	91.9	91.9
cal 6	6	✓	250.0	214.1	85.6
cal 7	7	✓	500.0	553.3	110.7
cal 8	8	✓	1000.0	1093.8	109.4

Compound Calibration Report

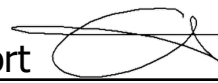


Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



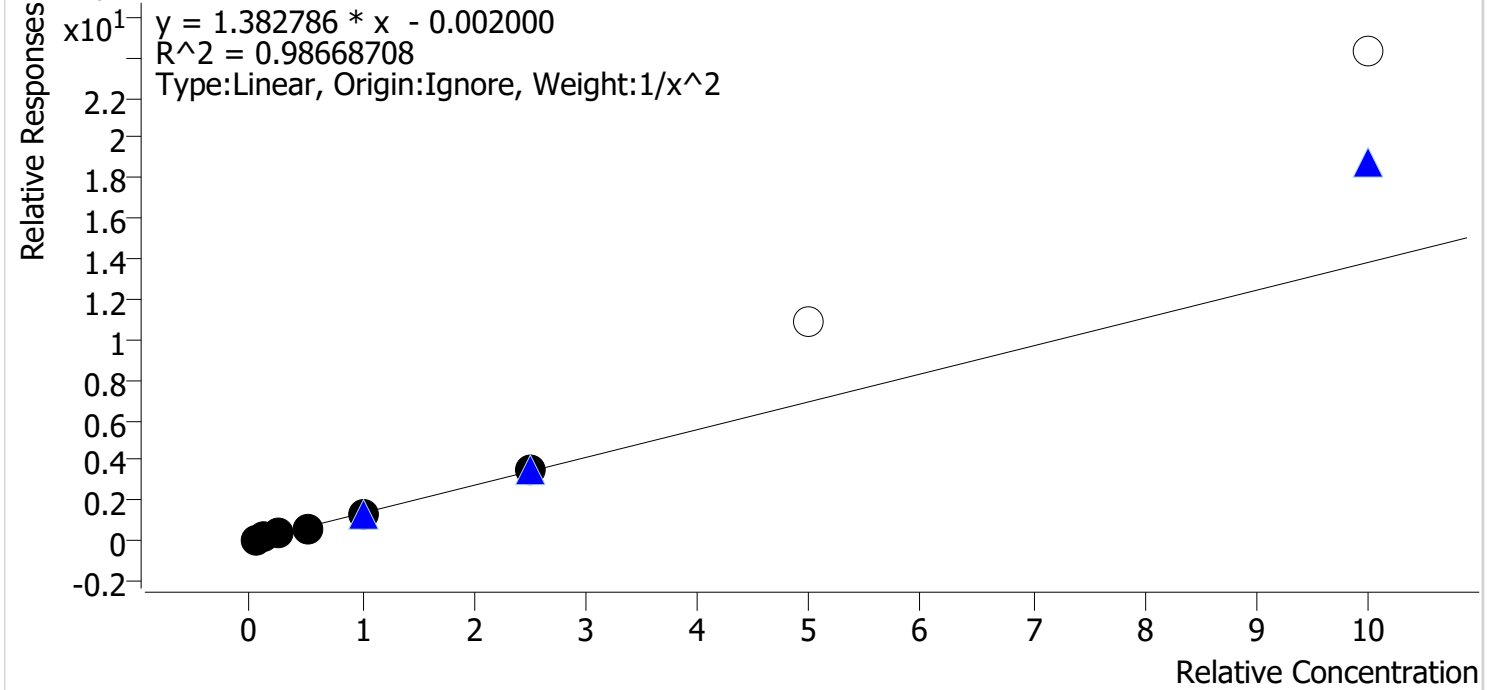
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	9.9	98.7
cal 3	3	✓	25.0	28.3	113.1
cal 4	4	✓	50.0	45.8	91.6
cal 5	5	✓	100.0	92.6	92.6
cal 6	6	✓	250.0	223.5	89.4
cal 7	7	✓	500.0	553.1	110.6
cal 8	8	✓	1000.0	1046.8	104.7

Compound Calibration Report



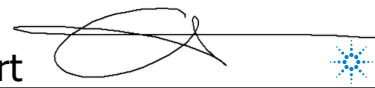
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Oxazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.3
cal 2	2	✓	10.0	10.6	106.2
cal 3	3	✓	25.0	28.7	114.8
cal 4	4	✓	50.0	44.8	89.6
cal 5	5	✓	100.0	92.5	92.5
cal 6	6	✓	250.0	253.9	101.5
cal 7	7	✗	500.0	783.6	156.7
cal 8	8	✗	1000.0	1756.7	175.7

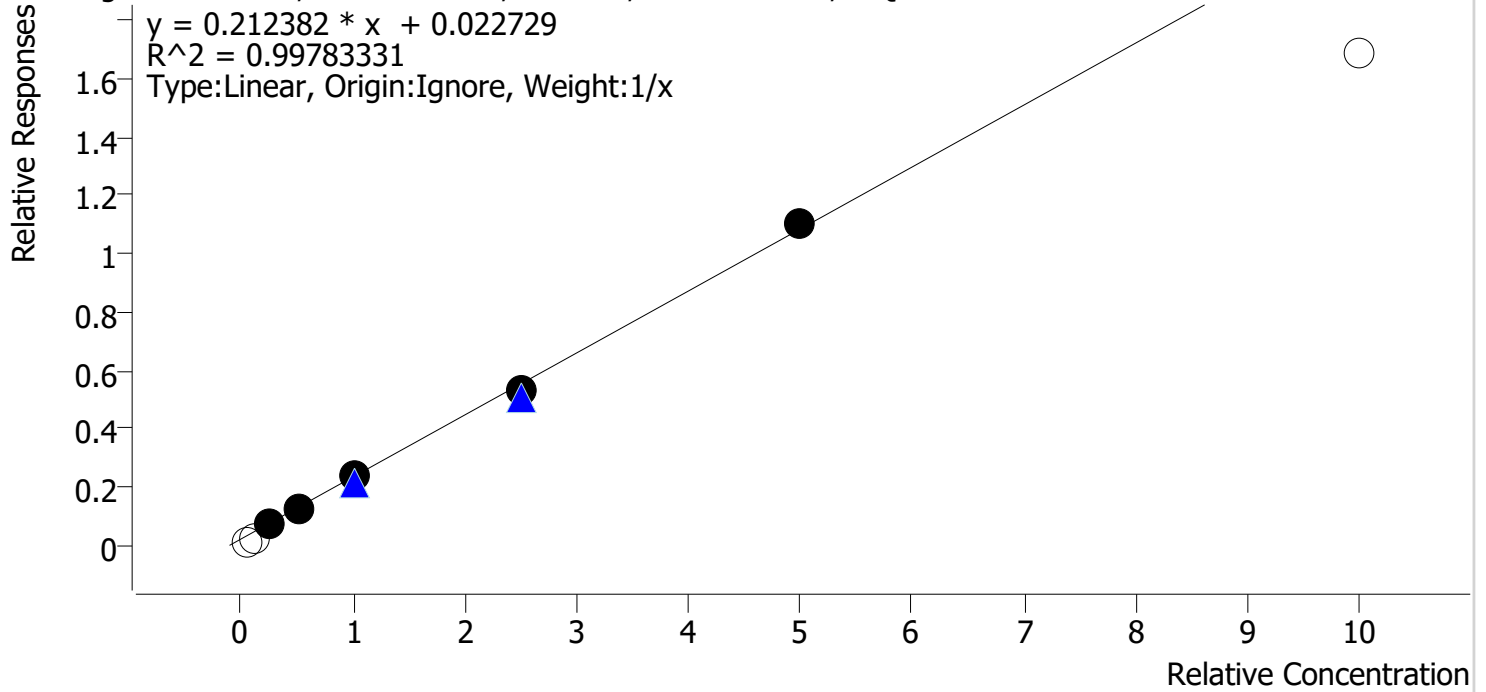
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Lamotrigine

Internal Standard Ketamine-D4

Lamotrigine - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs

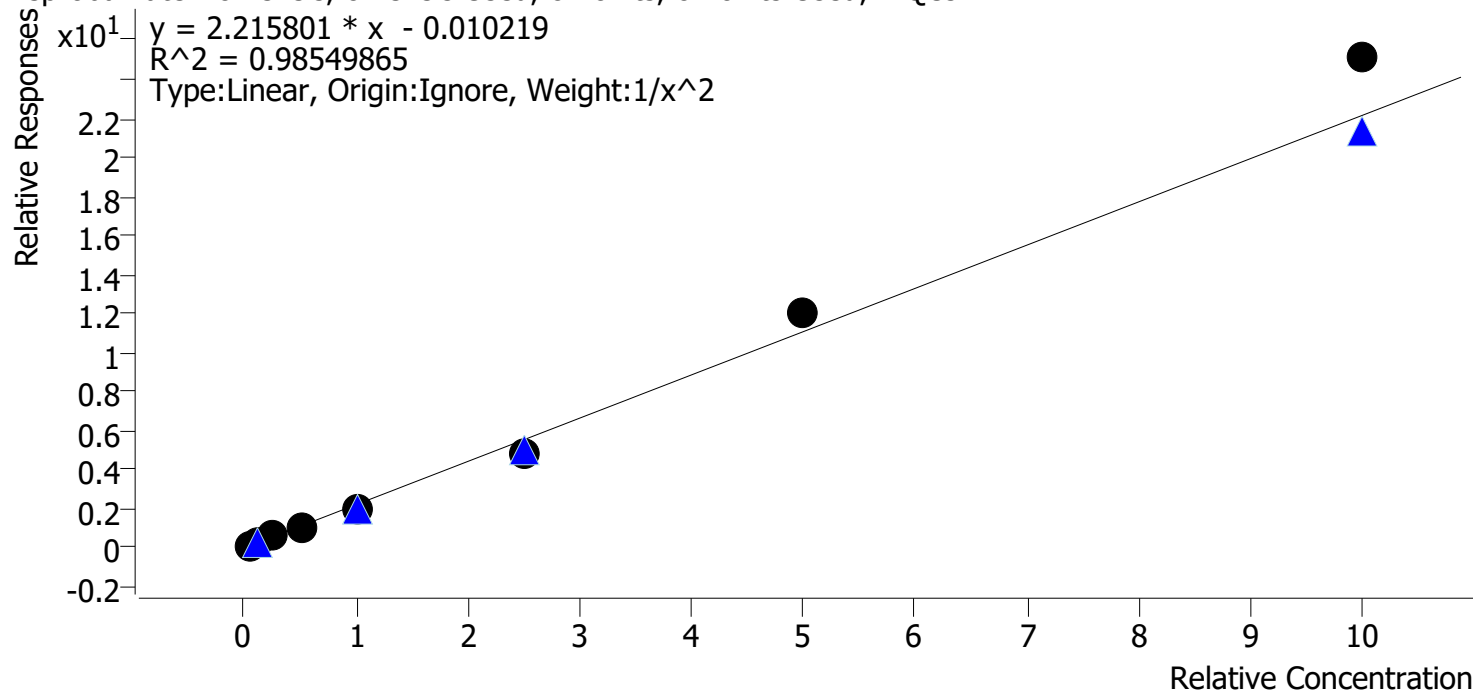


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	0.0	0.0
cal 2	2	x	10.0	1.4	14.0
cal 3	3	✓	25.0	26.7	106.7
cal 4	4	✓	50.0	46.3	92.5
cal 5	5	✓	100.0	103.4	103.4
cal 6	6	✓	250.0	238.1	95.2
cal 7	7	✓	500.0	510.5	102.1
cal 8	8	x	1000.0	783.1	78.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

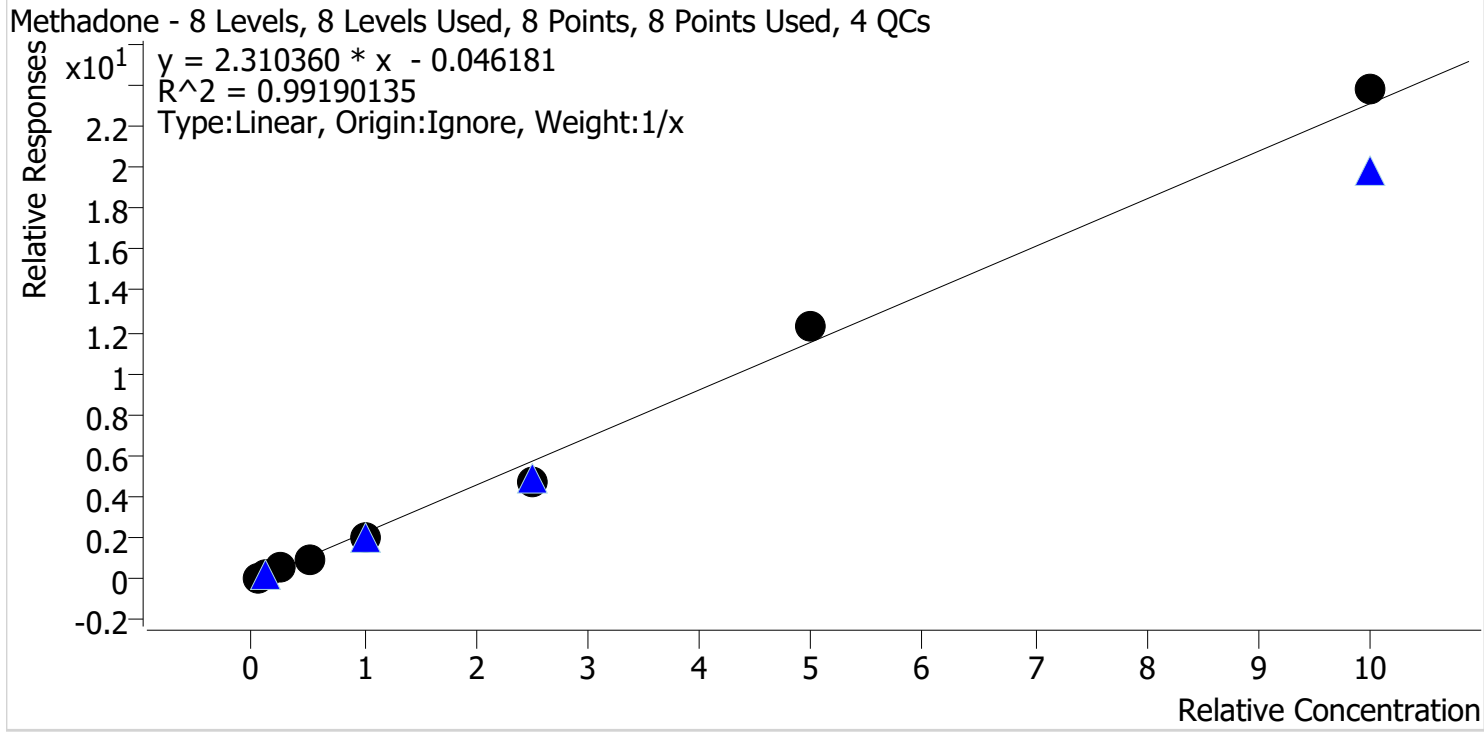
Meprobamate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.6
cal 2	2	✓	10.0	9.9	99.3
cal 3	3	✓	25.0	28.0	111.9
cal 4	4	✓	50.0	44.5	88.9
cal 5	5	✓	100.0	91.0	91.0
cal 6	6	✓	250.0	217.4	87.0
cal 7	7	✓	500.0	545.0	109.0
cal 8	8	✓	1000.0	1133.7	113.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



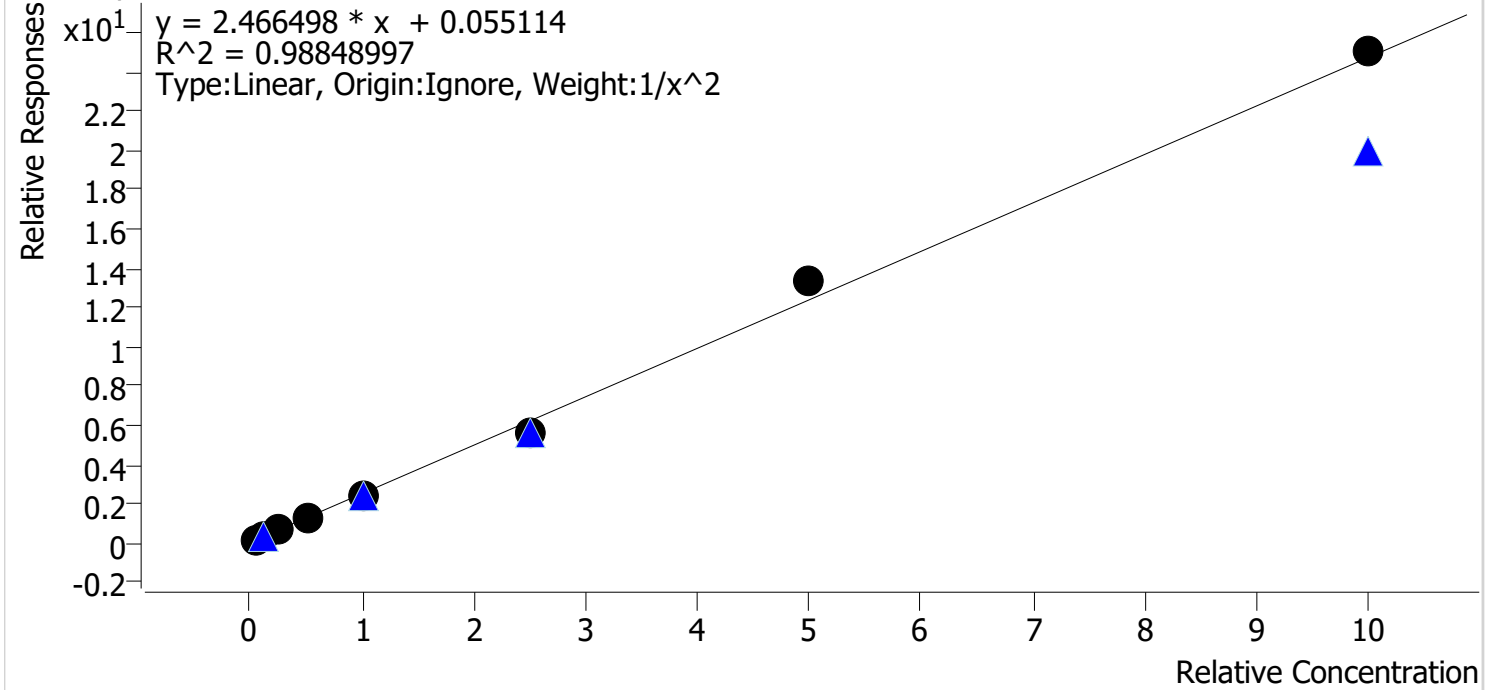
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.1	121.4
cal 2	2	✓	10.0	10.2	101.8
cal 3	3	✓	25.0	27.8	111.3
cal 4	4	✓	50.0	43.4	86.8
cal 5	5	✓	100.0	88.0	88.0
cal 6	6	✓	250.0	203.4	81.4
cal 7	7	✓	500.0	531.9	106.4
cal 8	8	✓	1000.0	1029.3	102.9

Compound Calibration Report



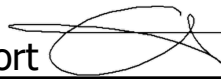
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** **Methamphetamine-D11**

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



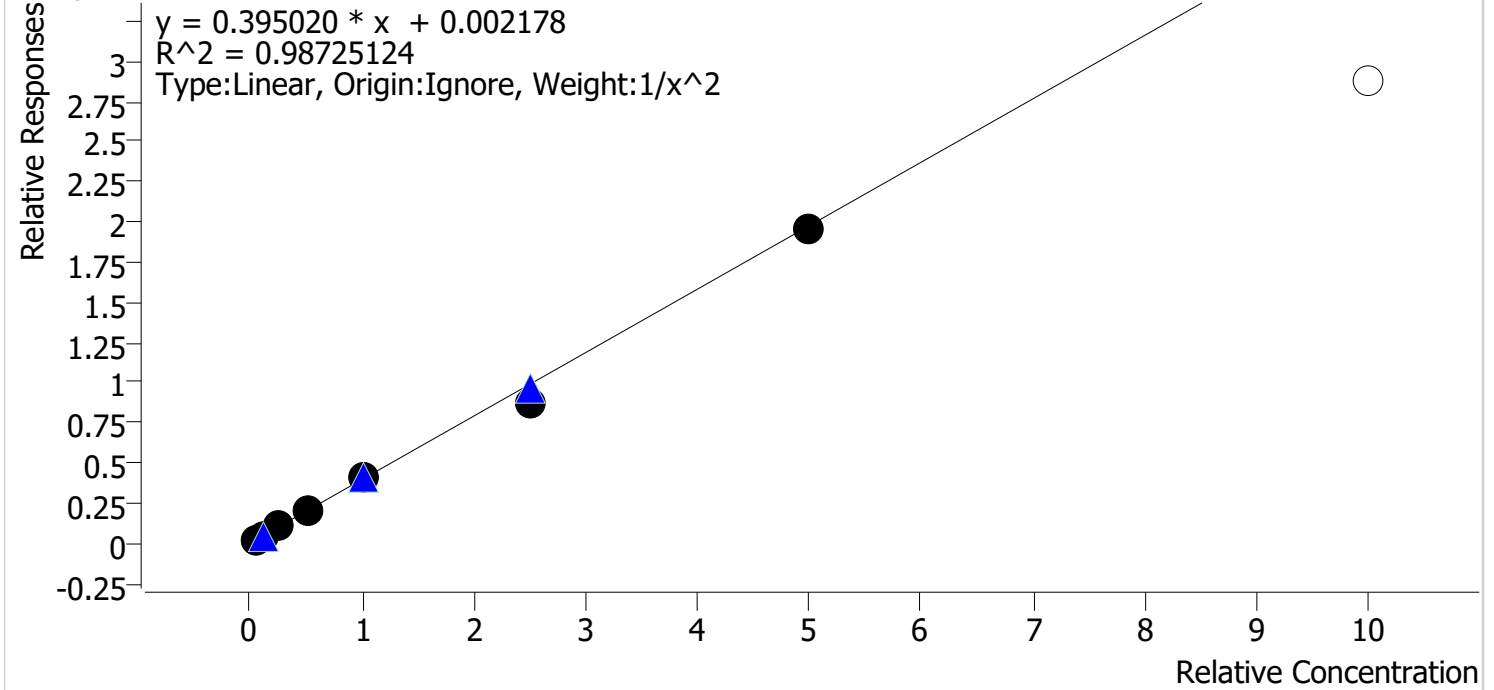
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.4
cal 2	2	✓	10.0	10.5	104.9
cal 3	3	✓	25.0	29.2	116.8
cal 4	4	✓	50.0	46.6	93.2
cal 5	5	✓	100.0	92.0	92.0
cal 6	6	✓	250.0	222.7	89.1
cal 7	7	✓	500.0	537.2	107.4
cal 8	8	✓	1000.0	1012.3	101.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Ketamine-D4

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



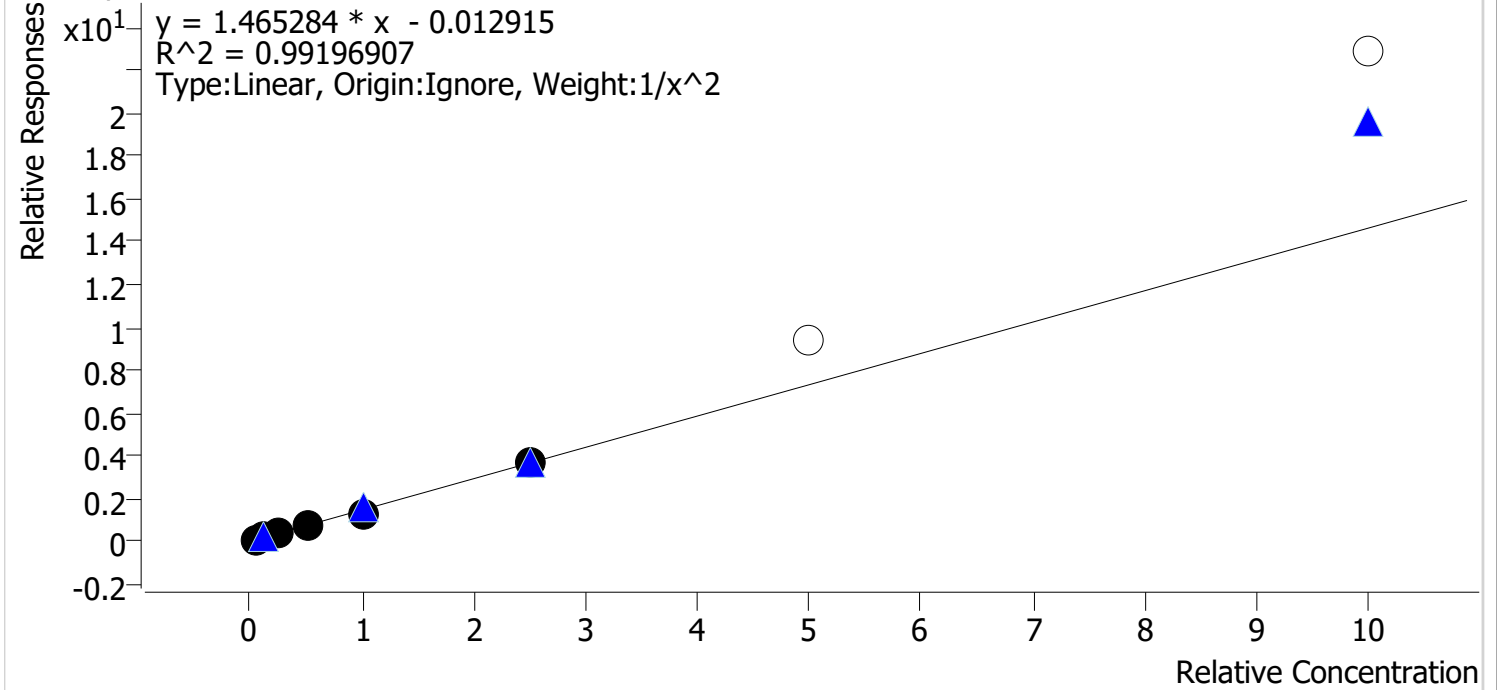
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.5
cal 2	2	✓	10.0	9.8	97.9
cal 3	3	✓	25.0	29.8	119.3
cal 4	4	✓	50.0	49.4	98.8
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	217.9	87.2
cal 7	7	✓	500.0	493.0	98.6
cal 8	8	✗	1000.0	727.0	72.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** Diphenhydramine-D3

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

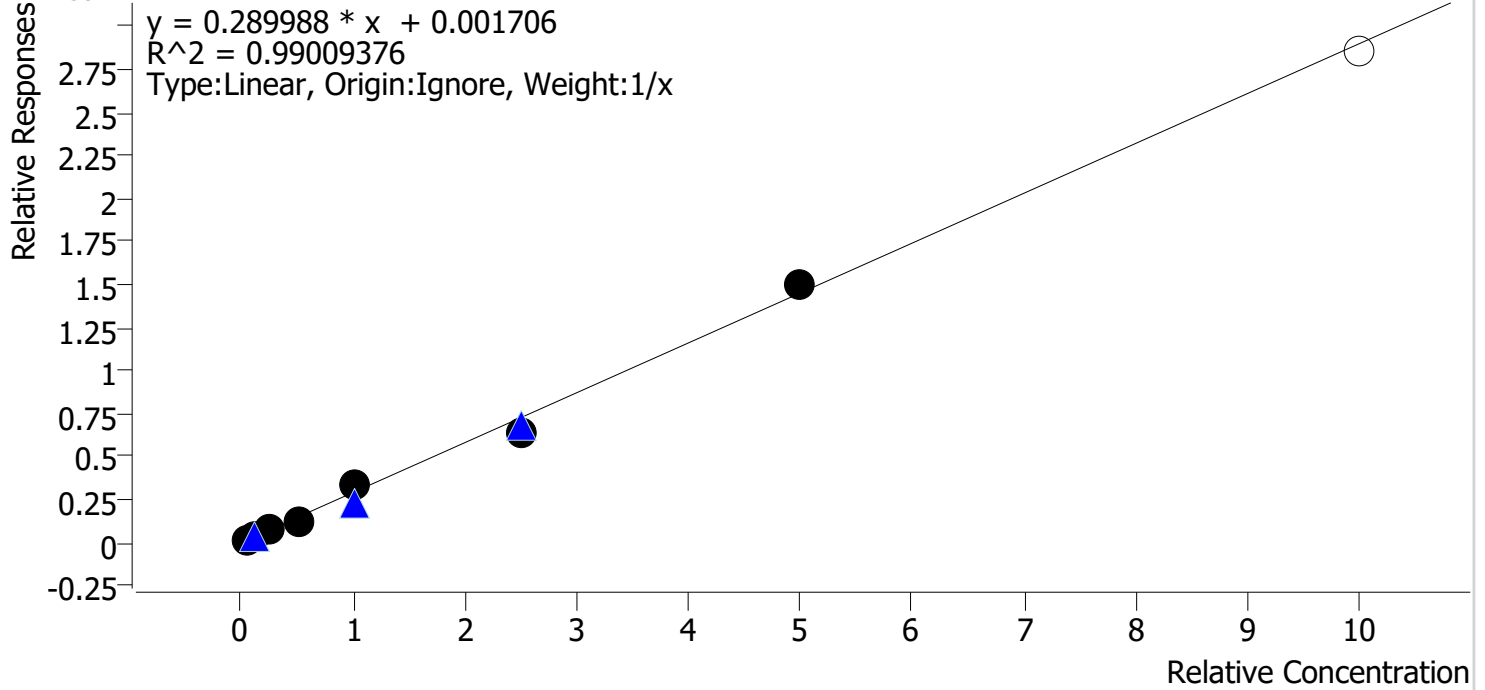


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.2
cal 2	2	✓	10.0	10.5	104.8
cal 3	3	✓	25.0	27.4	109.6
cal 4	4	✓	50.0	50.0	100.0
cal 5	5	✓	100.0	88.2	88.2
cal 6	6	✓	250.0	252.8	101.1
cal 7	7	x	500.0	641.1	128.2
cal 8	8	x	1000.0	1563.9	156.4

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Mitragynine

Internal Standard Methadone-D9

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

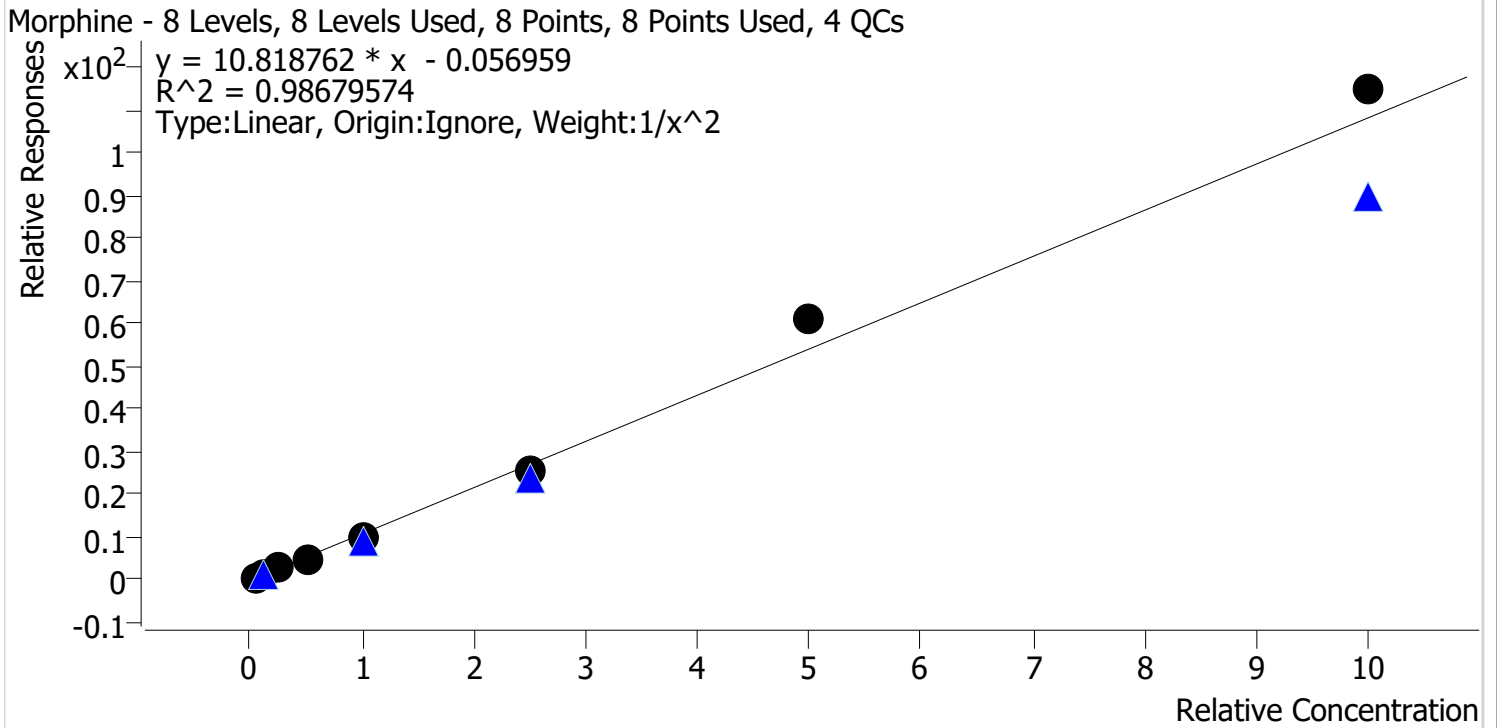


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.3
cal 2	2	✓	10.0	8.3	83.3
cal 3	3	✓	25.0	29.9	119.7
cal 4	4	✓	50.0	43.9	87.8
cal 5	5	✓	100.0	114.1	114.1
cal 6	6	✓	250.0	220.5	88.2
cal 7	7	✓	500.0	518.1	103.6
cal 8	8	✗	1000.0	984.2	98.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

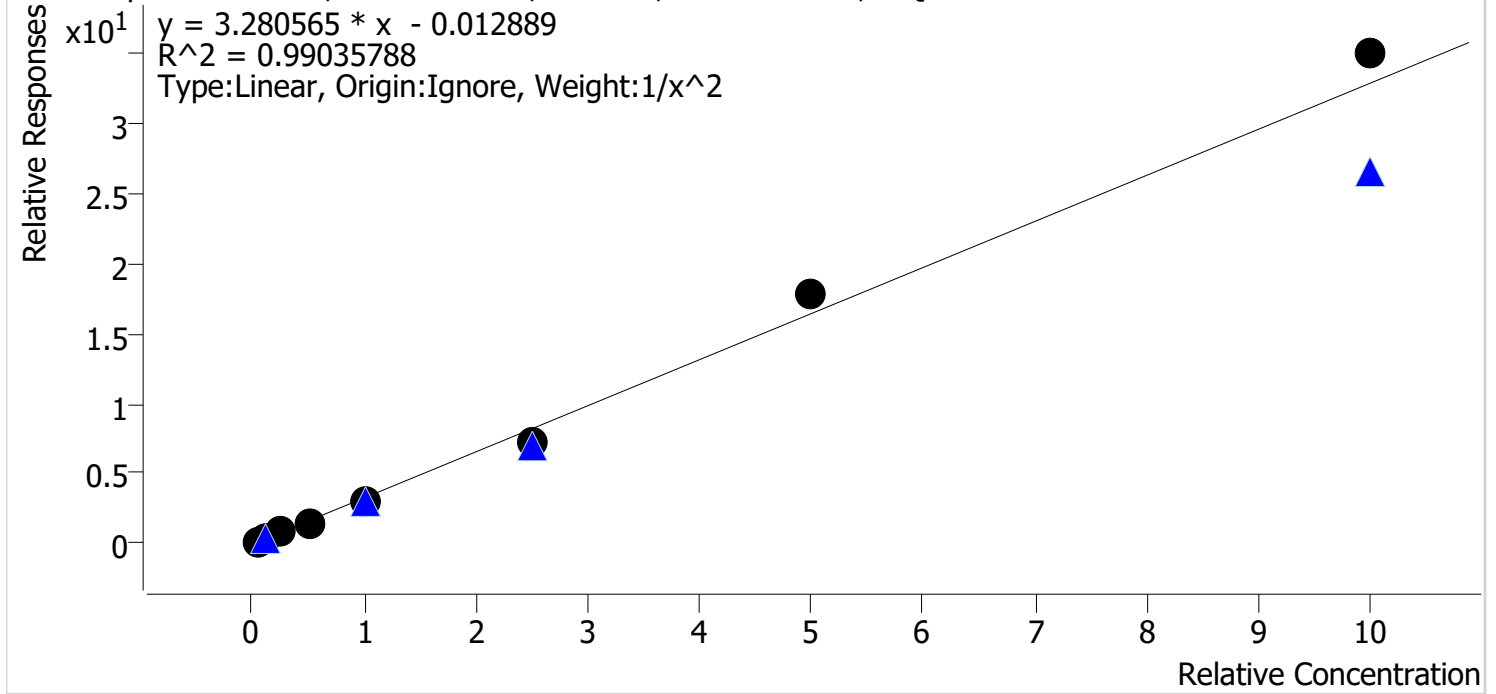


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.3
cal 2	2	✓	10.0	9.6	95.8
cal 3	3	✓	25.0	28.2	112.6
cal 4	4	✓	50.0	44.4	88.9
cal 5	5	✓	100.0	88.1	88.1
cal 6	6	✓	250.0	234.4	93.7
cal 7	7	✓	500.0	567.8	113.6
cal 8	8	✓	1000.0	1061.1	106.1



Batch results	D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin		
Last Cal. Update	8/20/2019 9:16 AM		
Analyst Name	ISP\datastor		
Analyte	Nordiazepam	Internal Standard	Nordiazepam-D5

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



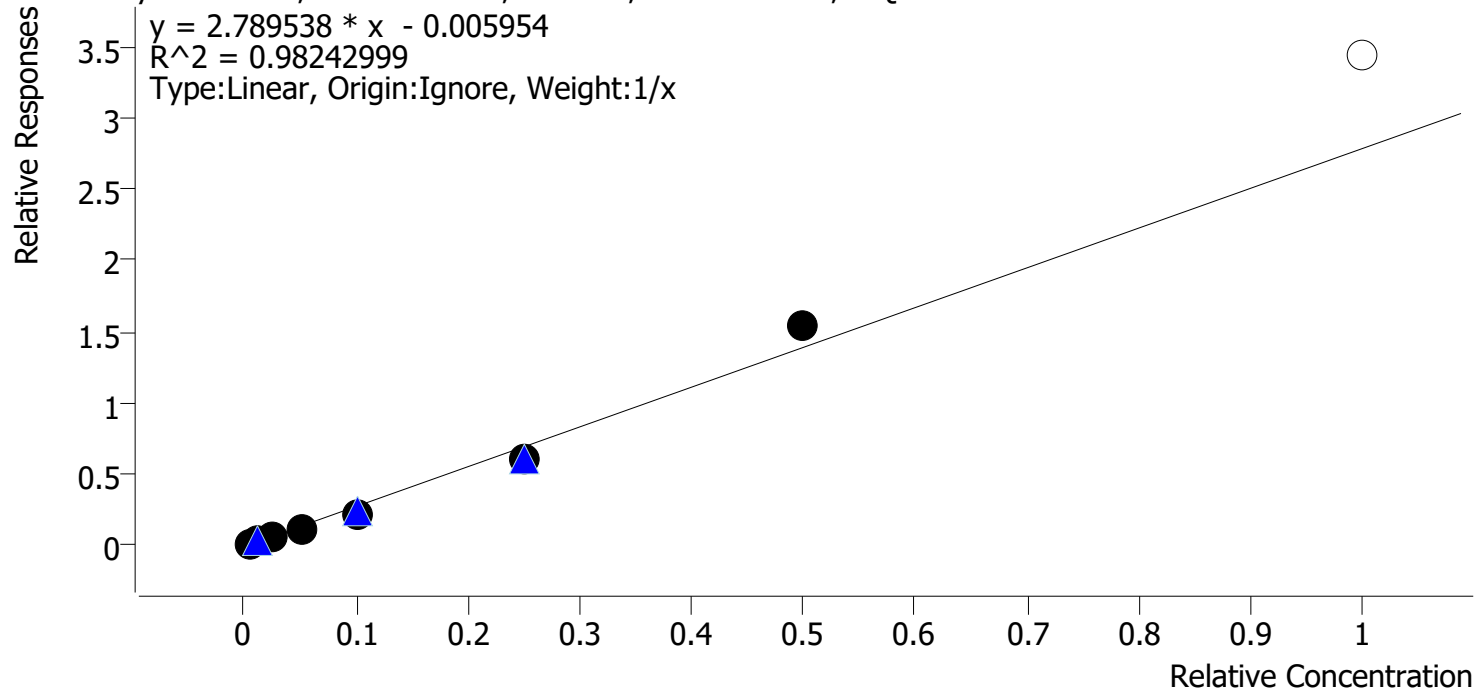
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	28.0	112.2
cal 4	4	✓	50.0	45.8	91.6
cal 5	5	✓	100.0	93.0	93.0
cal 6	6	✓	250.0	222.0	88.8
cal 7	7	✓	500.0	543.9	108.8
cal 8	8	✓	1000.0	1064.3	106.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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



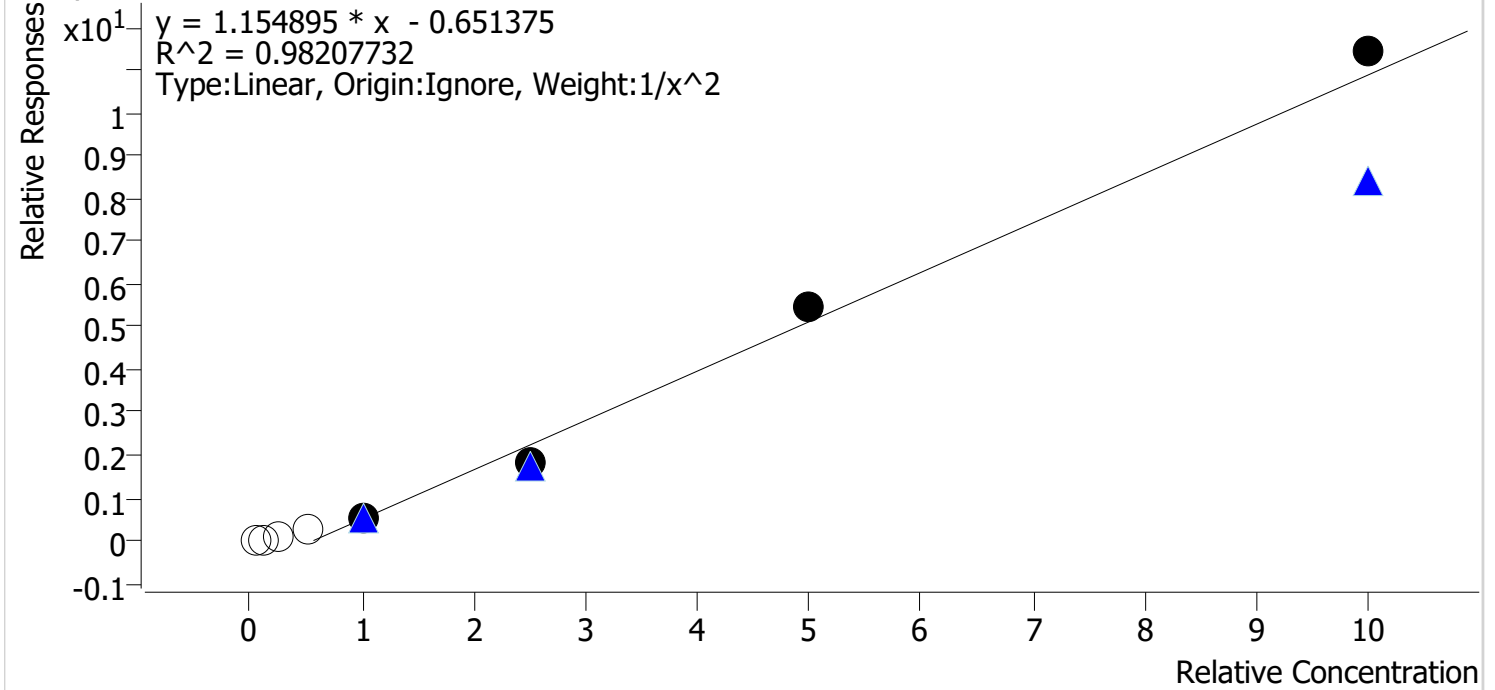
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.6	125.5
cal 2	2	✓	1.0	1.0	102.0
cal 3	3	✓	2.5	2.7	106.8
cal 4	4	✓	5.0	4.2	84.3
cal 5	5	✓	10.0	8.4	83.7
cal 6	6	✓	25.0	21.7	86.8
cal 7	7	✓	50.0	55.4	110.8
cal 8	8	✗	100.0	123.4	123.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	58.2	1163.8
cal 2	2	x	10.0	59.4	594.4
cal 3	3	x	25.0	66.8	267.3
cal 4	4	x	50.0	75.9	151.8
cal 5	5	✓	100.0	104.3	104.3
cal 6	6	✓	250.0	212.9	85.2
cal 7	7	✓	500.0	529.0	105.8
cal 8	8	✓	1000.0	1047.3	104.7

Compound Calibration Report

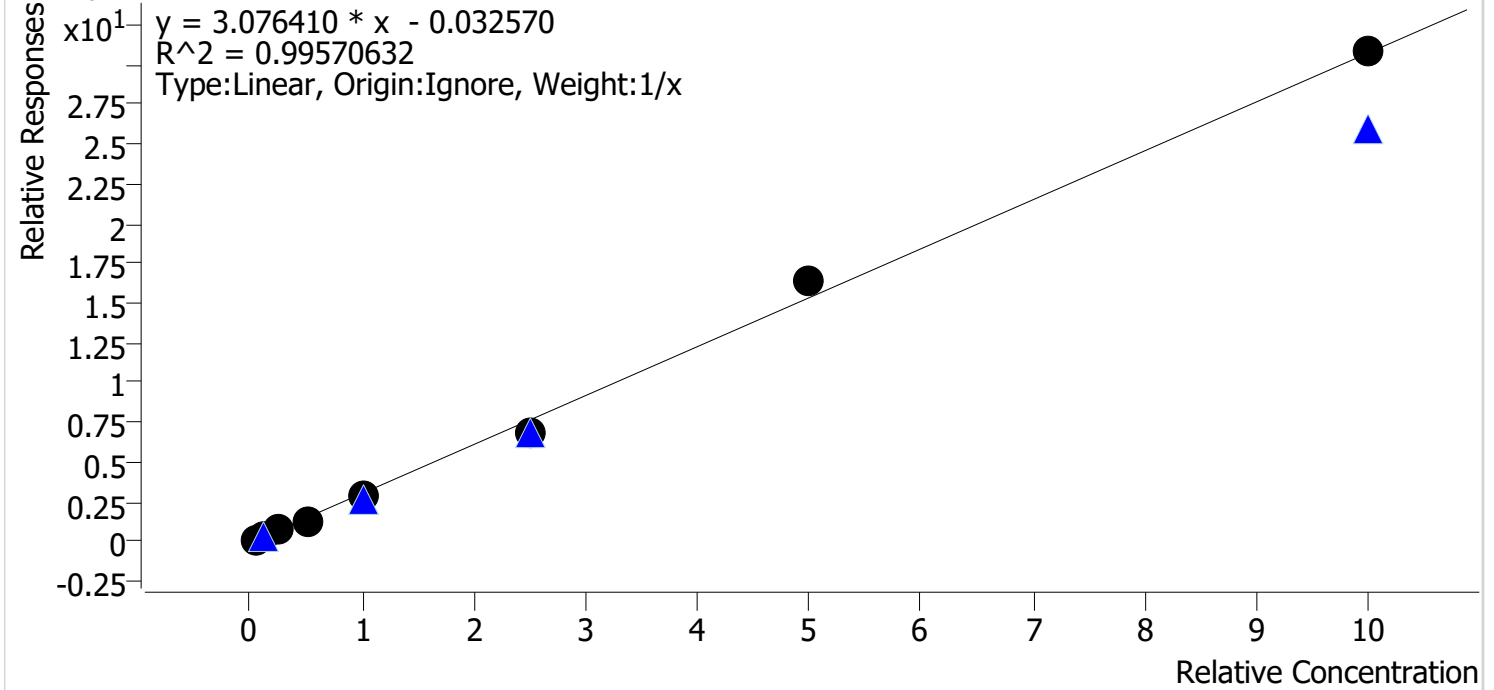


Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Noroxycodone

Internal Standard

Noroxycodone-D3

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

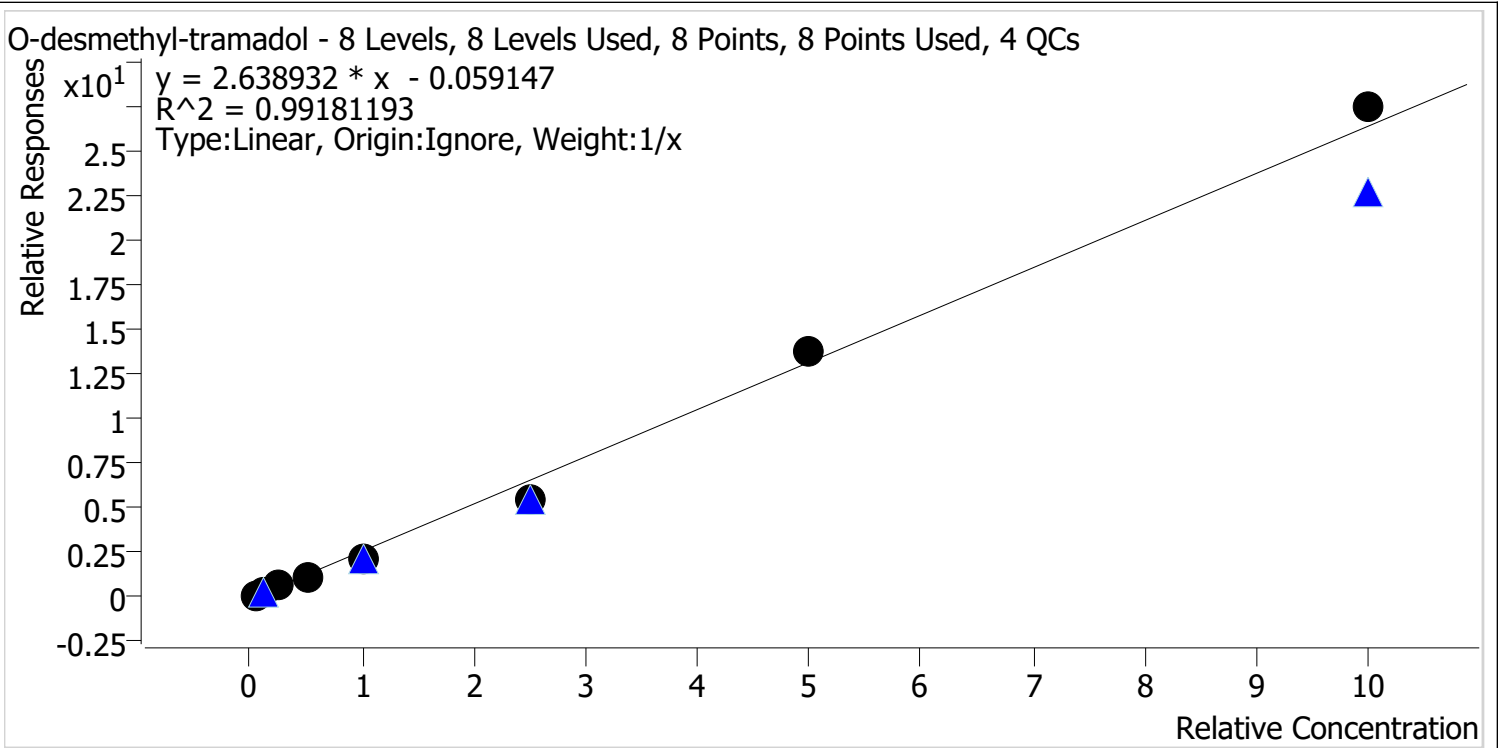


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.3
cal 2	2	✓	10.0	10.0	99.5
cal 3	3	✓	25.0	29.1	116.2
cal 4	4	✓	50.0	44.9	89.8
cal 5	5	✓	100.0	92.7	92.7
cal 6	6	✓	250.0	220.5	88.2
cal 7	7	✓	500.0	534.7	106.9
cal 8	8	✓	1000.0	1002.9	100.3

Compound Calibration Report

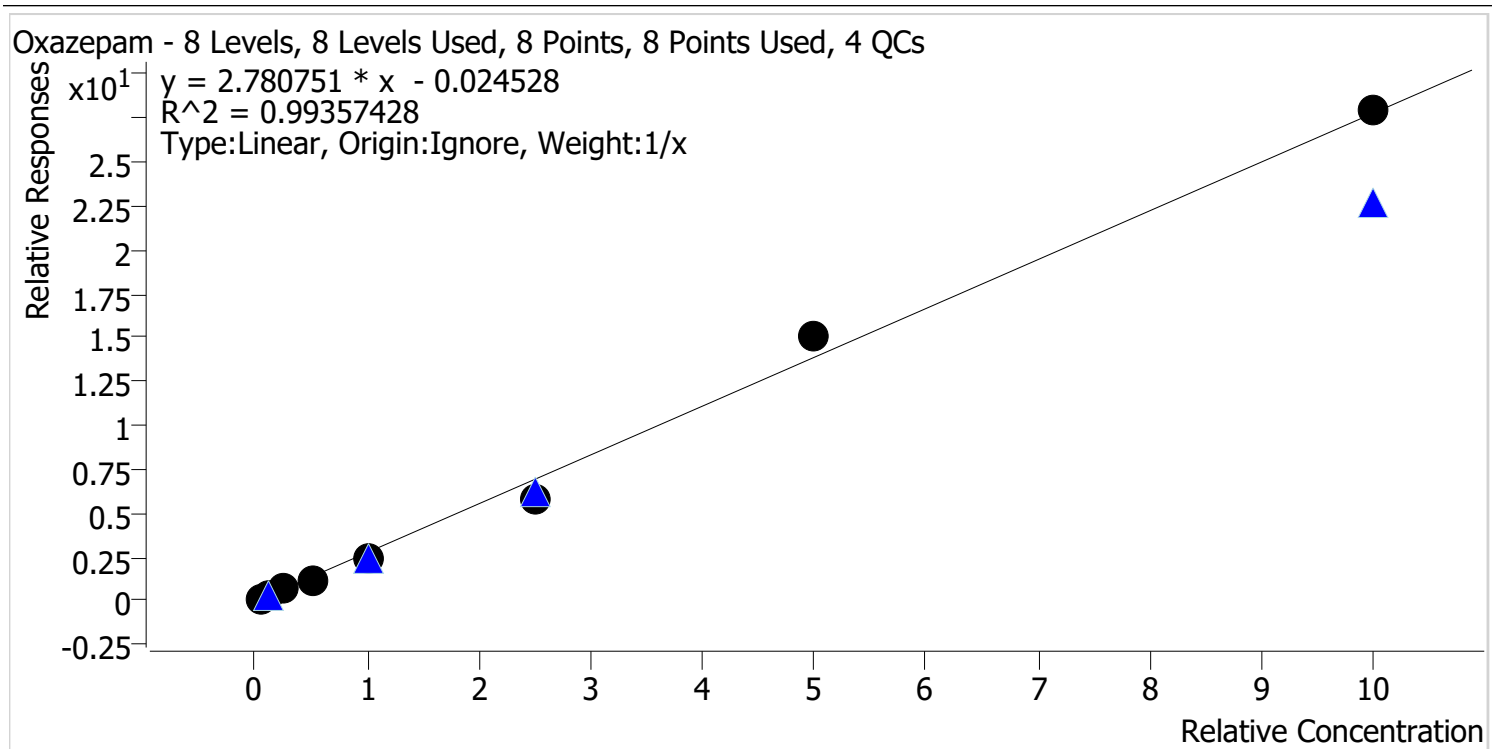


Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



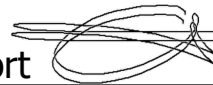
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.3	126.0
cal 2	2	✓	10.0	10.6	106.1
cal 3	3	✓	25.0	27.1	108.4
cal 4	4	✓	50.0	42.1	84.2
cal 5	5	✓	100.0	84.1	84.1
cal 6	6	✓	250.0	206.4	82.6
cal 7	7	✓	500.0	523.3	104.7
cal 8	8	✓	1000.0	1040.1	104.0

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
 Last Cal. Update 8/20/2019 9:16 AM
 Analyst Name ISP\datastor
 Analyte Oxazepam Internal Standard Oxazepam-D5



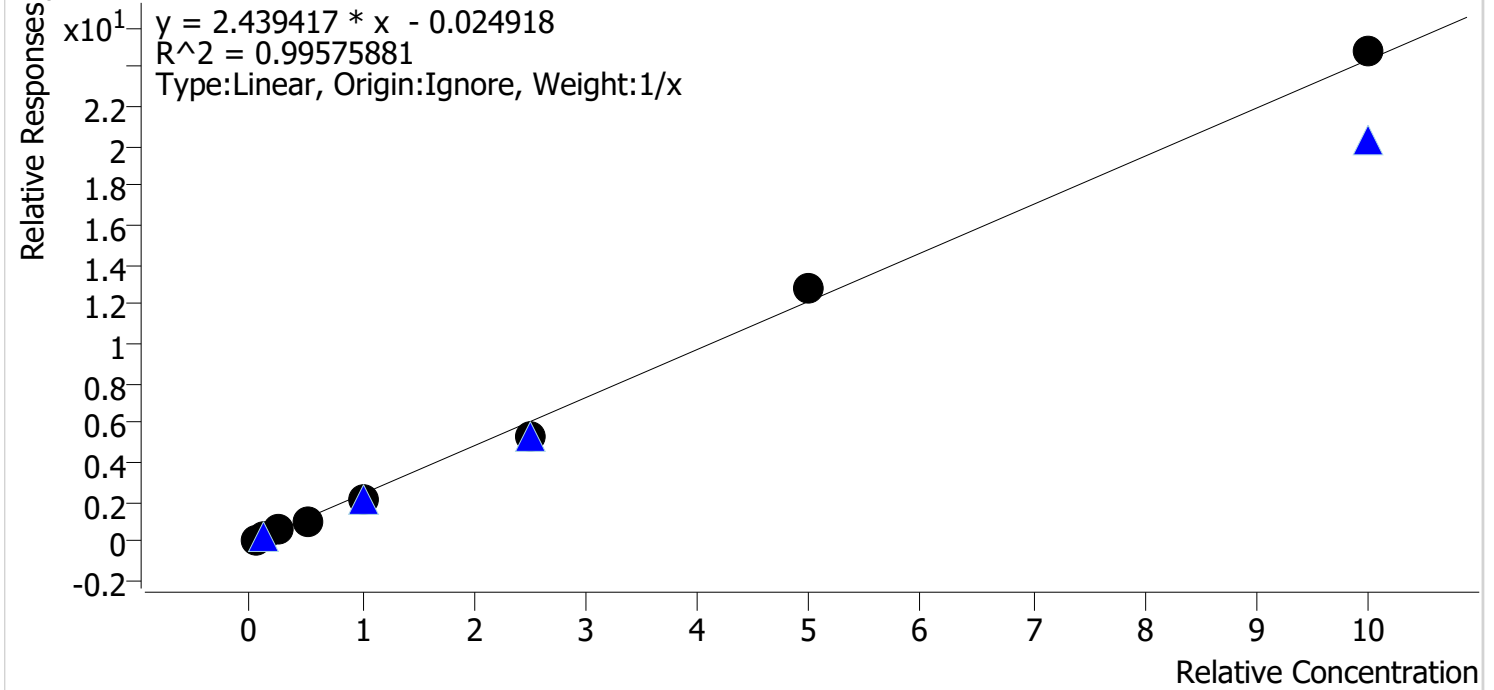
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.3
cal 2	2	✓	10.0	10.4	103.9
cal 3	3	✓	25.0	28.4	113.5
cal 4	4	✓	50.0	45.0	90.1
cal 5	5	✓	100.0	90.3	90.3
cal 6	6	✓	250.0	212.0	84.8
cal 7	7	✓	500.0	543.1	108.6
cal 8	8	✓	1000.0	1005.4	100.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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

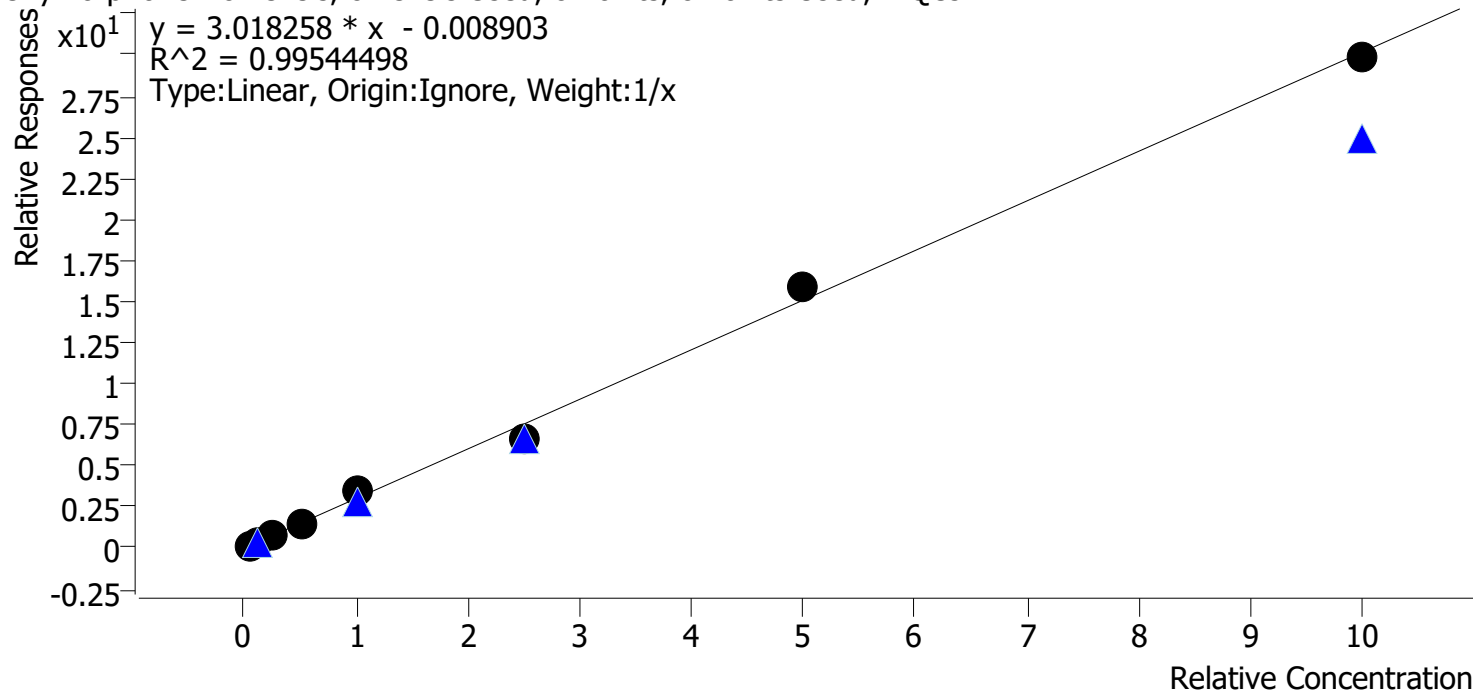


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.4
cal 2	2	✓	10.0	10.2	102.2
cal 3	3	✓	25.0	28.3	113.4
cal 4	4	✓	50.0	45.7	91.5
cal 5	5	✓	100.0	89.4	89.4
cal 6	6	✓	250.0	218.4	87.4
cal 7	7	✓	500.0	525.2	105.0
cal 8	8	✓	1000.0	1017.2	101.7

Compound Calibration Report

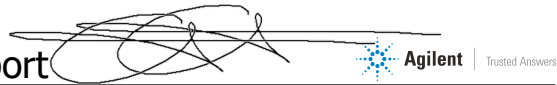
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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



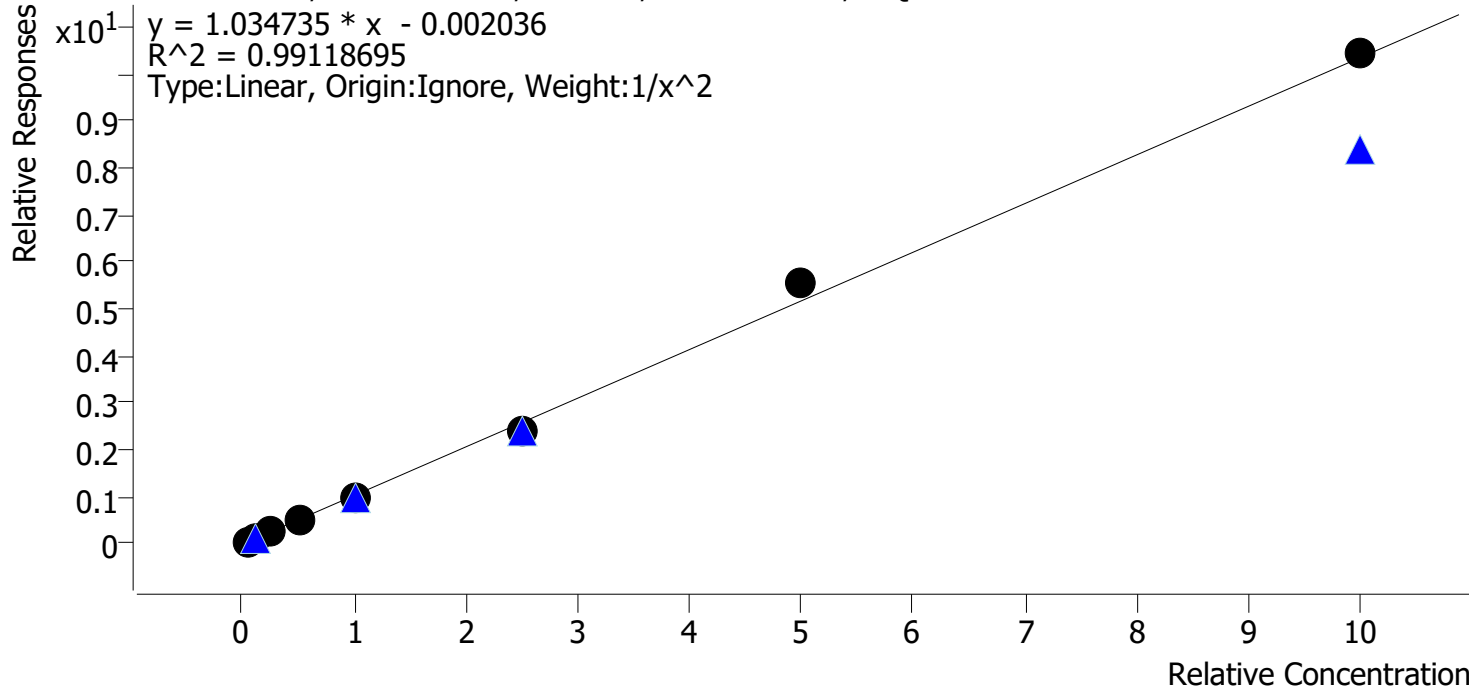
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.4
cal 2	2	✓	10.0	9.6	95.6
cal 3	3	✓	25.0	27.9	111.4
cal 4	4	✓	50.0	45.1	90.1
cal 5	5	✓	100.0	114.6	114.6
cal 6	6	✓	250.0	220.8	88.3
cal 7	7	✓	500.0	528.3	105.7
cal 8	8	✓	1000.0	989.0	98.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



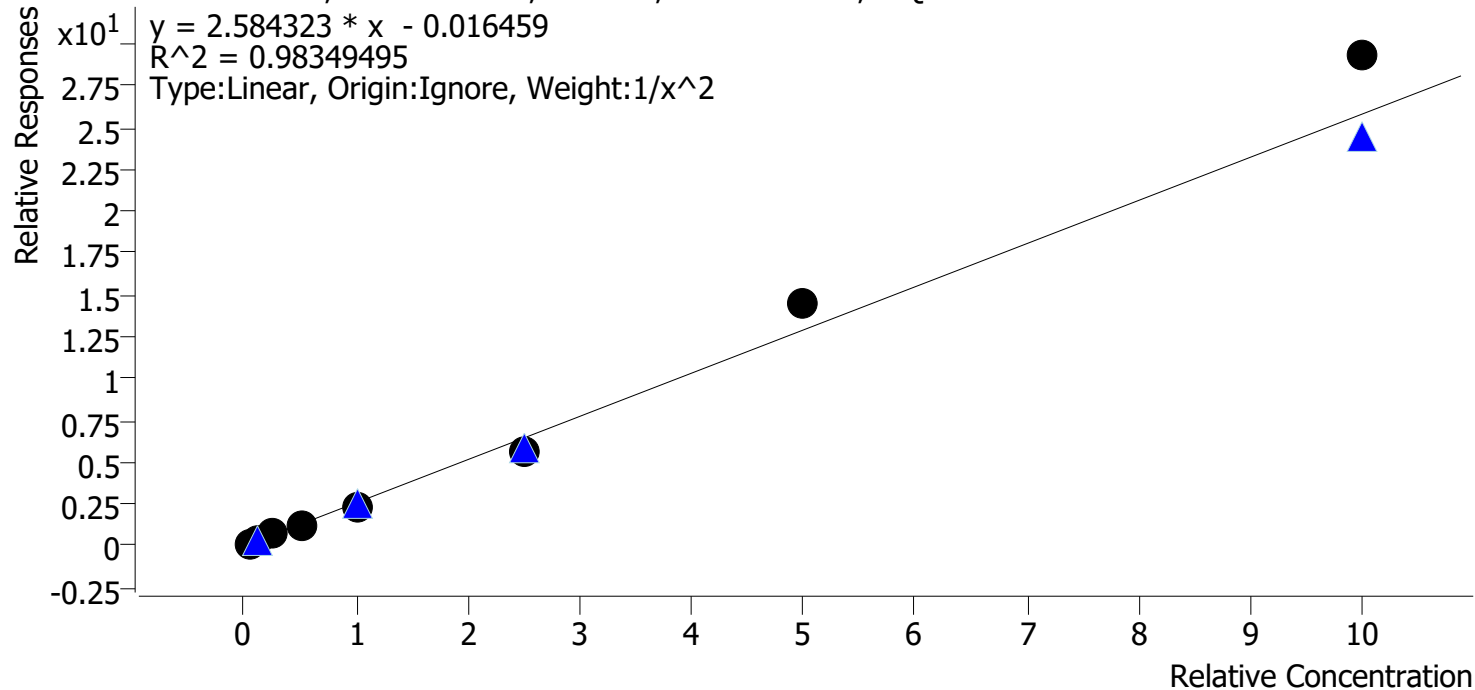
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.4
cal 2	2	✓	10.0	9.7	96.9
cal 3	3	✓	25.0	29.0	115.9
cal 4	4	✓	50.0	47.0	93.9
cal 5	5	✓	100.0	93.5	93.5
cal 6	6	✓	250.0	229.4	91.8
cal 7	7	✓	500.0	538.8	107.8
cal 8	8	✓	1000.0	1008.3	100.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	103.0
cal 2	2	✓	10.0	9.3	93.3
cal 3	3	✓	25.0	27.7	110.9
cal 4	4	✓	50.0	43.5	87.0
cal 5	5	✓	100.0	91.4	91.4
cal 6	6	✓	250.0	221.2	88.5
cal 7	7	✓	500.0	562.2	112.4
cal 8	8	✓	1000.0	1135.4	113.5

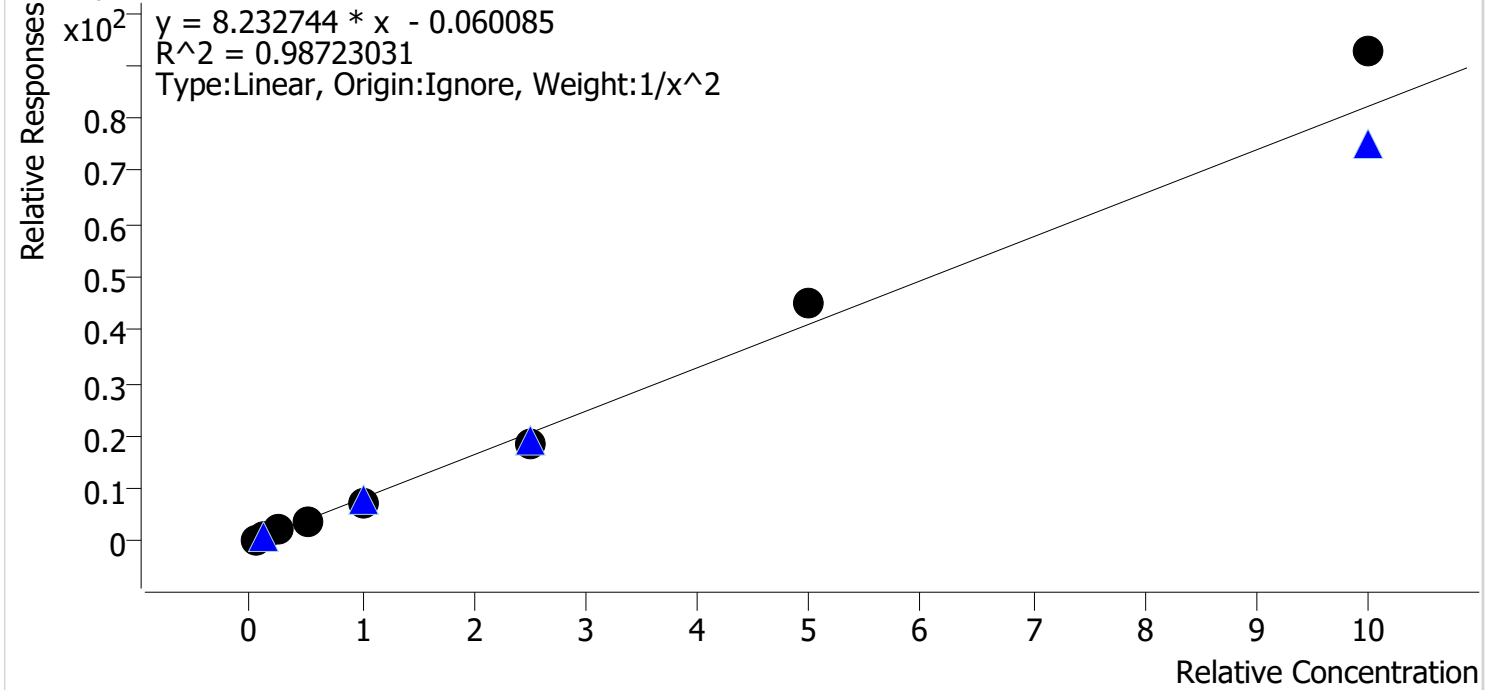
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Quetiapine

Internal Standard Quetiapine-D8

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

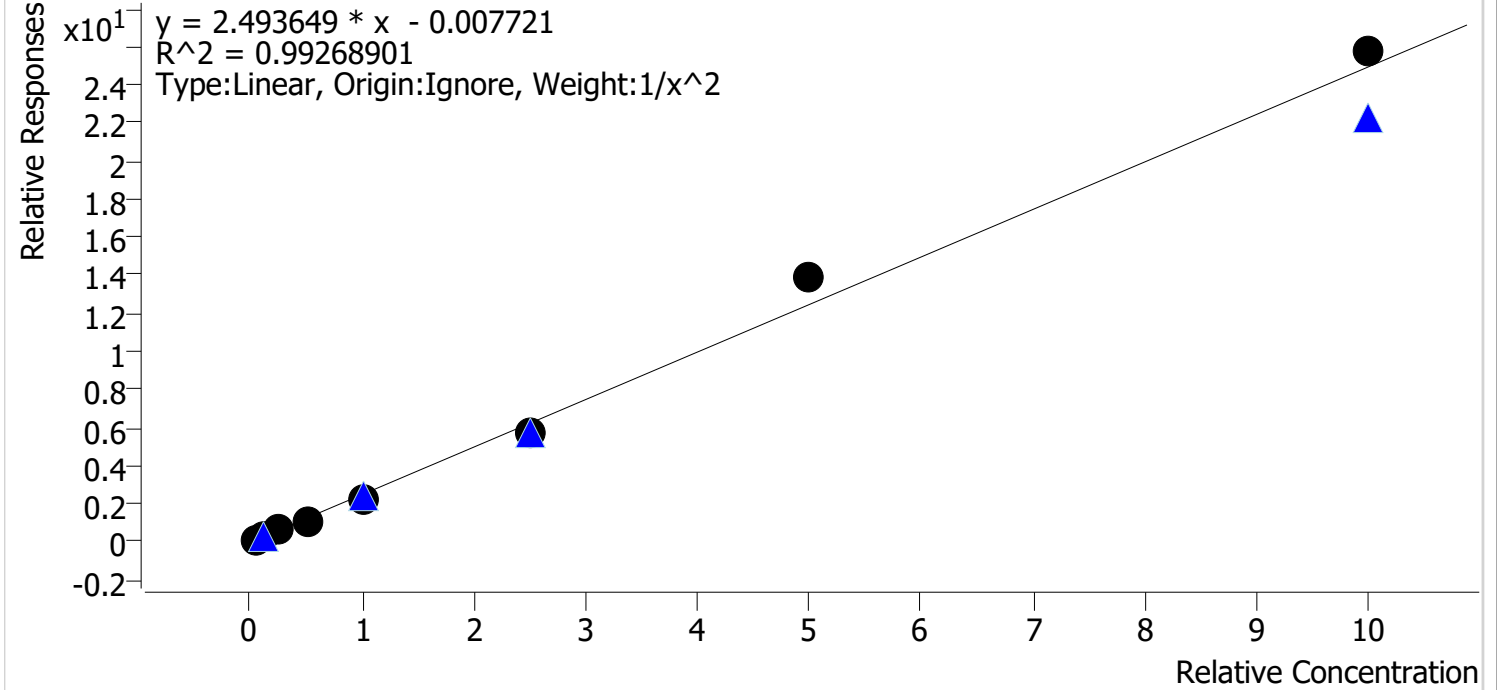


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.0
cal 2	2	✓	10.0	10.1	101.0
cal 3	3	✓	25.0	27.5	109.9
cal 4	4	✓	50.0	45.6	91.2
cal 5	5	✓	100.0	88.5	88.5
cal 6	6	✓	250.0	221.5	88.6
cal 7	7	✓	500.0	546.0	109.2
cal 8	8	✓	1000.0	1125.7	112.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.2	102.4
cal 3	3	✓	25.0	27.0	108.2
cal 4	4	✓	50.0	45.5	91.0
cal 5	5	✓	100.0	92.5	92.5
cal 6	6	✓	250.0	233.2	93.3
cal 7	7	✓	500.0	555.0	111.0
cal 8	8	✓	1000.0	1032.4	103.2

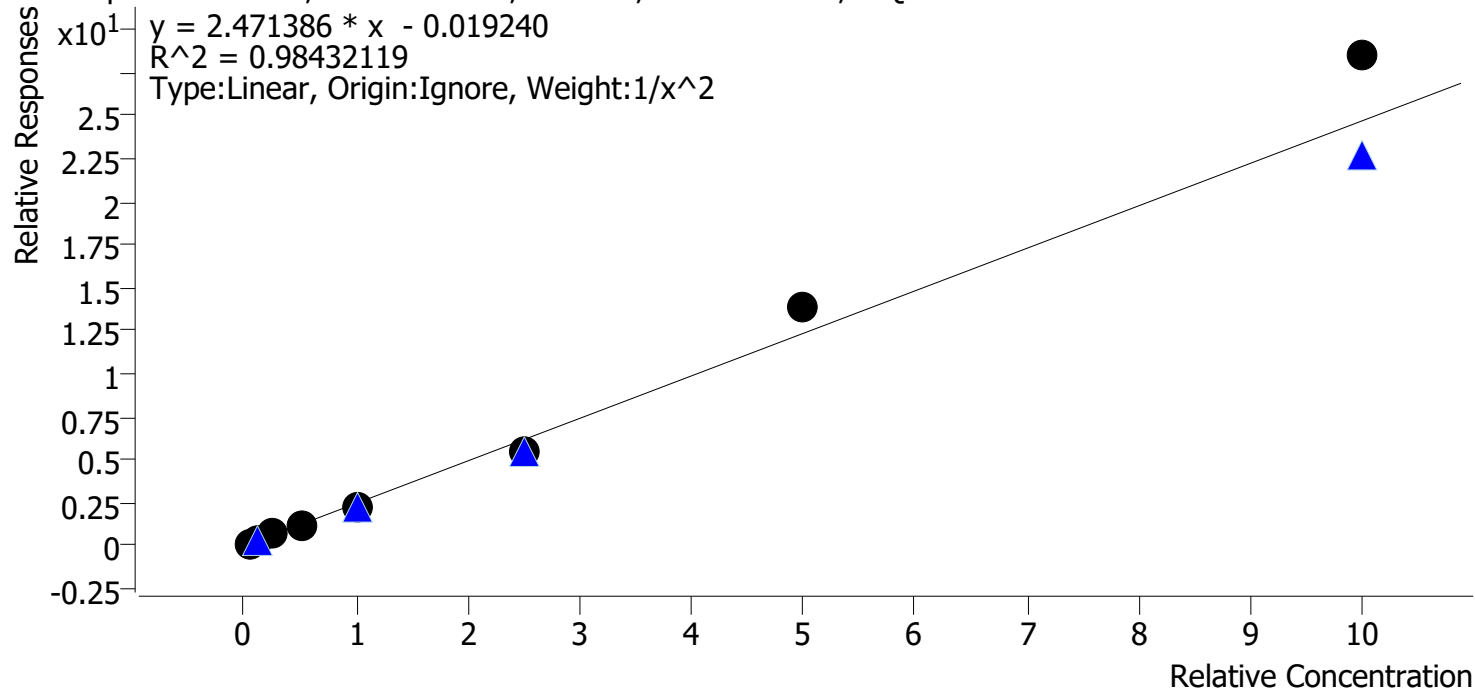
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Temazepam

Internal Standard Temazepam-D5

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

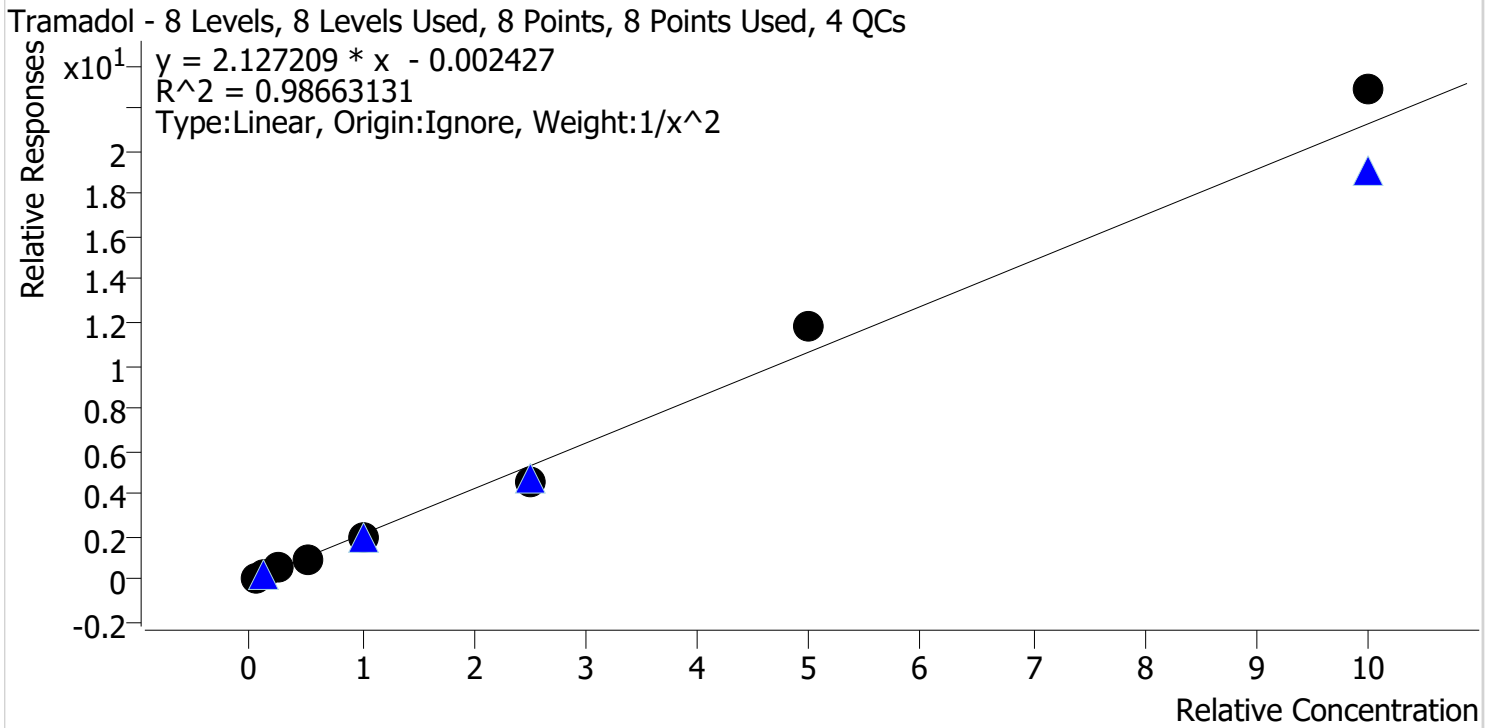


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	9.6	96.3
cal 3	3	✓	25.0	27.1	108.4
cal 4	4	✓	50.0	44.1	88.2
cal 5	5	✓	100.0	89.3	89.3
cal 6	6	✓	250.0	221.9	88.8
cal 7	7	✓	500.0	558.6	111.7
cal 8	8	✓	1000.0	1153.5	115.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



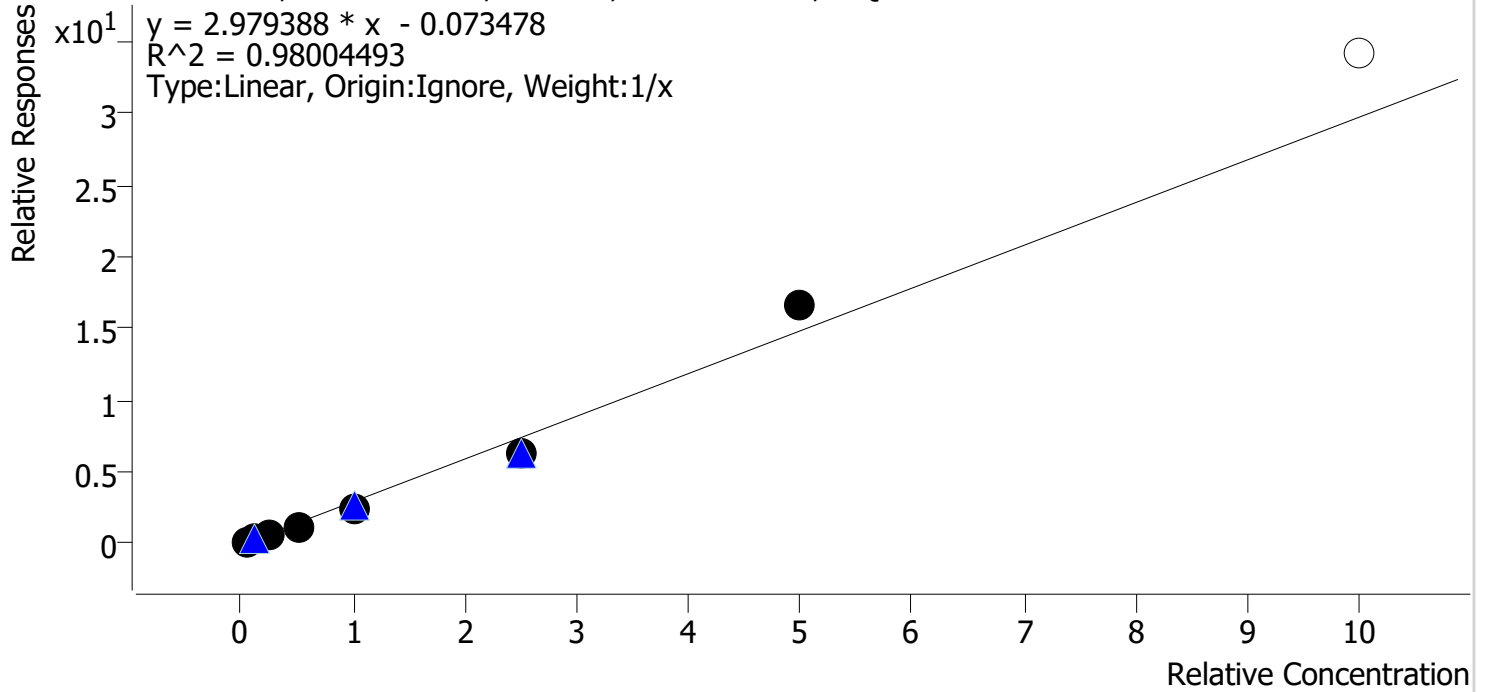
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.5
cal 2	2	✓	10.0	9.9	98.5
cal 3	3	✓	25.0	28.4	113.5
cal 4	4	✓	50.0	45.5	91.0
cal 5	5	✓	100.0	91.2	91.2
cal 6	6	✓	250.0	217.1	86.8
cal 7	7	✓	500.0	559.9	112.0
cal 8	8	✓	1000.0	1074.9	107.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Trazodone

Internal Standard Trazodone-D6

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



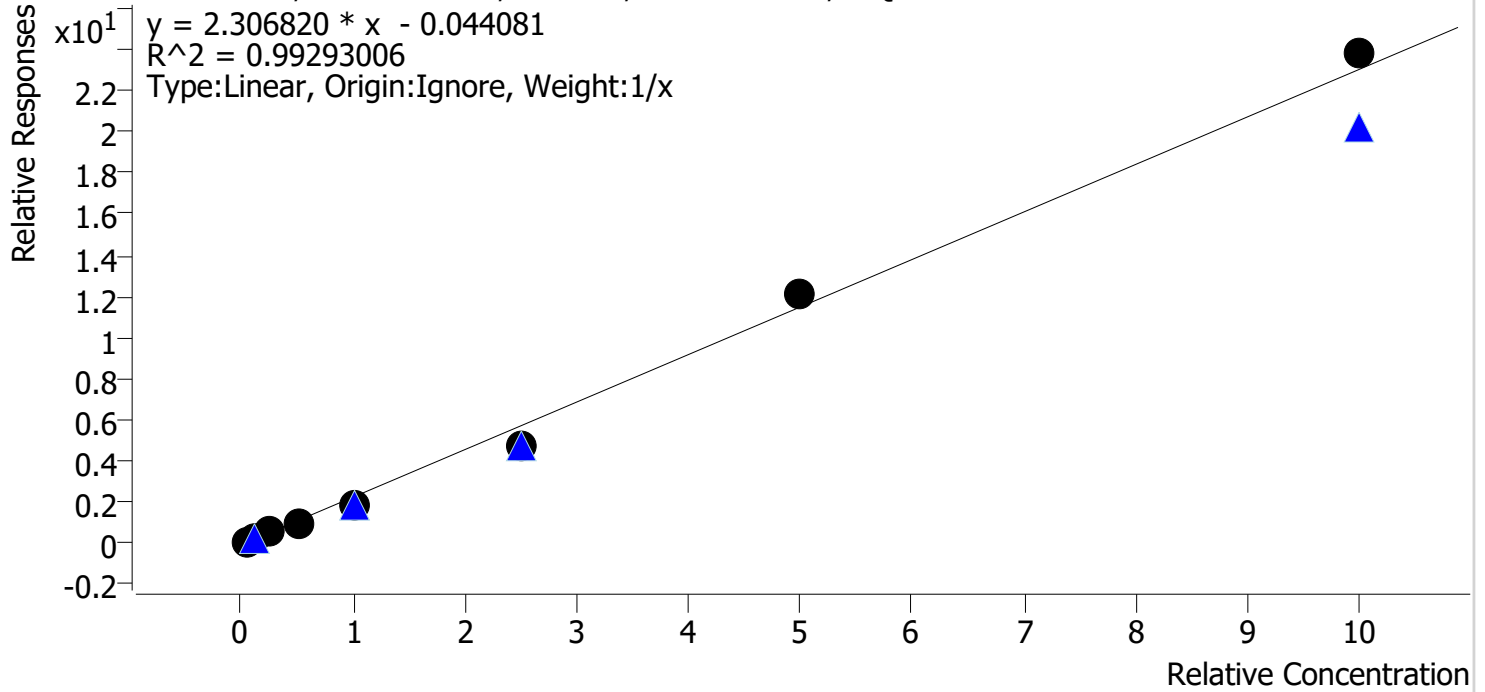
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.4	127.9
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	26.4	105.7
cal 4	4	✓	50.0	41.2	82.4
cal 5	5	✓	100.0	84.4	84.4
cal 6	6	✓	250.0	213.5	85.4
cal 7	7	✓	500.0	557.8	111.6
cal 8	8	✗	1000.0	1148.8	114.9

Compound Calibration Report



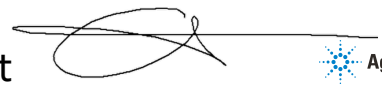
Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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



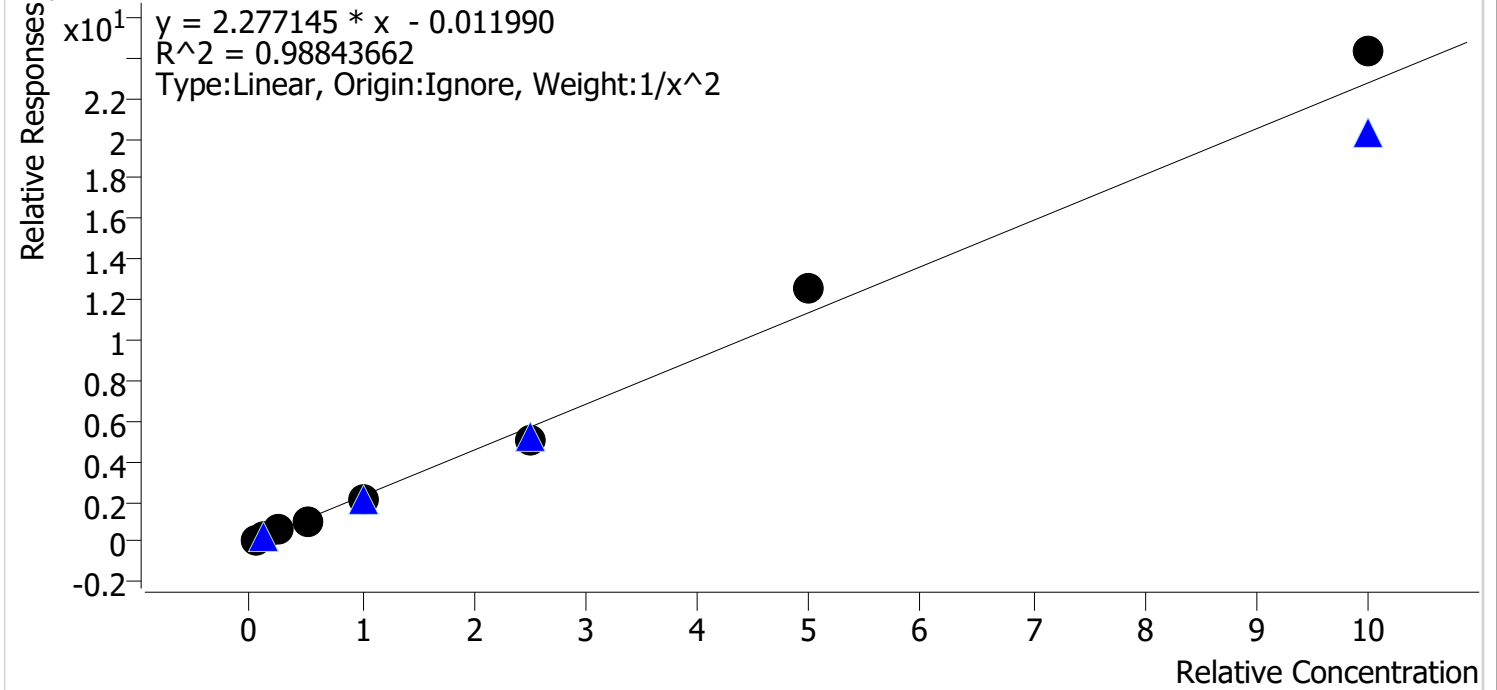
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.1	121.6
cal 2	2	✓	10.0	10.5	105.0
cal 3	3	✓	25.0	27.6	110.3
cal 4	4	✓	50.0	42.8	85.6
cal 5	5	✓	100.0	85.3	85.3
cal 6	6	✓	250.0	209.6	83.8
cal 7	7	✓	500.0	524.9	105.0
cal 8	8	✓	1000.0	1033.3	103.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
Last Cal. Update 8/20/2019 9:16 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	1	✓	5.0	5.0	99.1
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	28.1	112.3
cal 4	4	✓	50.0	45.2	90.4
cal 5	5	✓	100.0	91.9	91.9
cal 6	6	✓	250.0	221.2	88.5
cal 7	7	✓	500.0	556.2	111.2
cal 8	8	✓	1000.0	1068.1	106.8

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-A1

Injection Volume

2

Acq. Date-Time

8/19/2019 10:20:04 AM

Sample Info.

Data File

cal 1.d

Sample

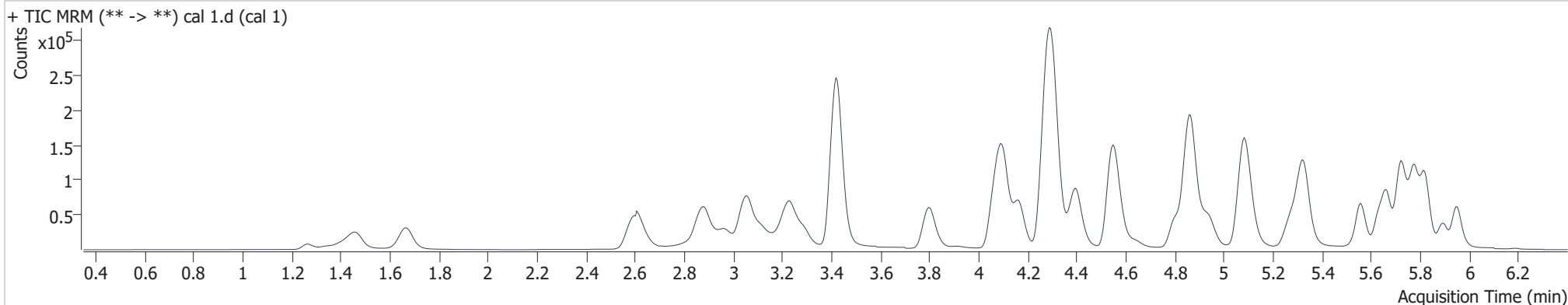
cal 1

Operator

Anne Nord

Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	763	1262.6	73.8	783.2	46536	0.511 ng/ml
7-aminoclonazepam	4.307	15137	16028.1	79.0	14441.1	127292	4.835 ng/ml
a-hydroxyalprazolam	5.709	1739	653.0	64.0	1009.9	20875	4.669 ng/ml
alpha-PVP	4.407	26184	10714.3	54.5	905.5	241016	5.043 ng/ml
Alprazolam	5.782	21990	398.9	104.3	1222.0	138576	6.259 ng/ml
Amphetamine	3.127	38769	531.3	51.4	252.8	118068	4.869 ng/ml
Benzoyllecgonine	3.931	1061	∞	9.2	656.6	7345	5.098 ng/ml
Bupropion	4.824	18897	1402.0	60.3	737.3	138164	5.019 ng/ml
Carisoprodol	5.733	18860	18985.8	64.0	333.2	202698	4.858 ng/ml
Citalopram	5.261	9472	81.4	40.4	4260.9	84985	4.940 ng/ml
Clonazepam	5.633	10024	433.5	33.4	764.3	33802	4.965 ng/ml
Cocaine	4.302	27435	5115.3	43.7	8516.6	512245	5.009 ng/ml
Codeine	2.653	5235	3478.8	102.7	1647.7	51039	4.973 ng/ml
Cyclobenzaprine	5.635	9248	∞	9.7	∞	73706	5.997 ng/ml
Dextromethorphan	5.306	5699	94.8	83.1	1120.4	62140	5.029 ng/ml
Dextrorphan	4.166	7196	2957.5	216.0	16955.2	175498	6.015 ng/ml
Diazepam	5.957	13776	1106.1	85.0	878.7	133572	5.775 ng/ml
Dihydrocodeine	2.627	12784	704.2	68.7	1678.0	145100	4.867 ng/ml

cal 1

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	28983	667.3	32.4	1319.8	290391	6.200 ng/ml
Doxylamine	4.569	53676	738.0	95.2	486.8	483479	5.053 ng/ml
EDDP	5.295	3054	362.0	238.7	679.8	78141	4.994 ng/ml
Fentanyl	5.122	1004	94.7	60.5	626.0	92031	0.532 ng/ml
Fluoxetine	5.715	12202	16388.6	7.9	1112.5	90959	8.263 ng/ml
Hydrocodone	3.079	13518	17.2	33.7	54.0	163776	6.064 ng/ml
Hydromorphone	1.673	13532	21.9	73.8	1505.4	101152	4.988 ng/ml
Ketamine	4.082	28914	1171.6	35.9	201.9	271423	4.966 ng/ml
Lorazepam	5.755	4485	173.4	57.1	24.9	70173	4.766 ng/ml
Meprobamate	4.957	13157	15086.2	32.1	164.0	131362	4.981 ng/ml
Methadone	5.664	14325	1864.3	54.4	429.2	152257	6.071 ng/ml
Methamphetamine	3.289	42971	116.8	34.3	73.2	248708	4.770 ng/ml
Metoprolol	4.364	5819	2386.3	103.4	725.6	271423	4.876 ng/ml
Mirtazapine	4.645	16725	8340.9	46.8	413.8	290391	4.812 ng/ml
Mitragynine	5.245	2541	2311.2	36.5	289.0	152257	5.167 ng/ml
Morphine	1.272	2678	21017.6	25.2	2304.3	5457	5.063 ng/ml
Nordiazepam	5.902	11348	770.9	60.1	3373.0	76300	4.927 ng/ml
Norfentanyl	4.127	4243	1040.0	41.6	17.8	367254	0.628 ng/ml
Norhydrocodone	3.115	742	289.3	31.7 Low	19.2	35967	58.188 ng/ml
Noroxycodone	2.982	11702	164.5	44.1	204.2	89343	5.316 ng/ml
O-desmethyl-tramadol	3.425	82085	182.8	6.3	336.1	766342	6.300 ng/ml
Oxazepam	5.768	8843	295.3	75.5	178.1	70173	5.414 ng/ml
Oxycodone	2.905	27015	875.8	31.1	281.8	248903	5.471 ng/ml
Oxymorphone	1.460	17288	2093.5	47.6	1464.4	128005	4.770 ng/ml
Phentermine	3.833	10477	56.9	4.8	22.9	212206	4.968 ng/ml
Promethazine	5.563	15302	7863.8	30.8	458.7	131261	5.148 ng/ml
Quetiapine	5.550	11048	1408.9	56.6	56.6	31785	4.952 ng/ml
Sertraline	5.777	5805	832.6	95.0	1766.7	50457	4.923 ng/ml
Temazepam	5.829	24002	656.8	30.4	39.2	224941	5.096 ng/ml
Tramadol	4.288	64155	2345.1	3.6	84.0	620535	4.974 ng/ml
Trazodone	5.112	10182	111.4	78.6	6303.9	86996	6.395 ng/ml
Venlafaxine	5.083	36205	140.0	37.1	89.7	376351	6.081 ng/ml
Zolpidem	4.883	62497	77690.0	29.9	1136.1	619573	4.956 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Data File

cal 2.d

Type

Cal

Sample

cal 2

Acq. Method

mdq p1 cda 121818.m

Operator

Anne Nord

Sample Position

P2-B1

Comment

Injection Volume

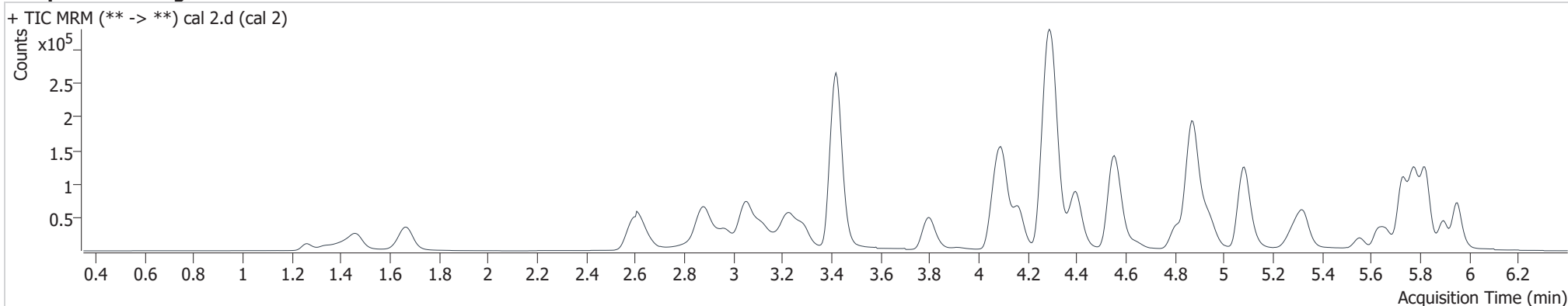
2

Acq. Date-Time

8/19/2019 10:30:53 AM

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	1476	665.7	75.0	1448.7	45839	0.958 ng/ml
7-aminoclonazepam	4.307	28281	639.4	80.9	28133.4	115404	10.006 ng/ml
a-hydroxyalprazolam	5.709	4075	724.5	60.2	1702.6	19913	10.980 ng/ml
alpha-PVP	4.407	46342	5861.4	54.5	248.6	207828	9.675 ng/ml
Alprazolam	5.782	44485	357.2	103.9	771.1	137709	10.471 ng/ml
Amphetamine	3.127	60549	718.2	52.7	246.4	92215	9.922 ng/ml
Benzoyllecgonine	3.936	1893	∞	8.5	∞	6864	9.551 ng/ml
Bupropion	4.824	26140	1125.9	62.4	1114.6	93557	9.687 ng/ml
Carisoprodol	5.733	40602	33606.0	60.9	170.7	195796	10.251 ng/ml
Citalopram	5.266	7288	214.8	45.3	2355.2	31049	9.899 ng/ml
Clonazepam	5.633	20988	394.5	34.3	8145.2	35725	9.586 ng/ml
Cocaine	4.302	53448	65571.1	44.6	141.3	482416	9.839 ng/ml
Codeine	2.653	10507	400.7	102.0	1931.3	49743	9.777 ng/ml
Cyclobenzaprine	5.635	2114	11087.7	11.8	33.8	8841	9.846 ng/ml
Dextromethorphan	5.306	3480	90.1	71.6	202.7	17304	9.831 ng/ml
Dextrorphan	4.161	12358	1054.1	215.1	43277.2	146372	10.422 ng/ml
Diazepam	5.952	28709	2098.4	84.8	9286.9	133485	10.391 ng/ml
Dihydrocodeine	2.627	25399	1183.6	68.2	9473.9	142017	9.903 ng/ml

cal 2

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	21765	179.1	35.6	248.1	109904	10.370 ng/ml
Doxylamine	4.569	90169	763.1	97.0	3422.9	395517	9.662 ng/ml
EDDP	5.295	5161	4071.7	225.7	587.8	60982	10.064 ng/ml
Fentanyl	5.117	279	14.5	68.9	9.9 Low	15006	0.878 ng/ml
Fluoxetine	5.715	2183	45.0	11.3 High	7.6 Low	8547	12.162 ng/ml
Hydrocodone	3.074	26649	547.0	41.4	344.9	157589	10.837 ng/ml
Hydromorphone	1.673	28836	3792.2	73.1	2841.2	104811	9.796 ng/ml
Ketamine	4.082	57266	26585.3	36.3	111.8	262727	9.869 ng/ml
Lamotrigine	4.335	6753	122.4	88.0	4776.2	262727	1.401 ng/ml
Lorazepam	5.761	10129	352.9	57.5	56.2	69937	10.619 ng/ml
Meprobamate	4.957	25865	33288.8	31.9	455.1	123241	9.933 ng/ml
Methadone	5.664	8196	173.1	53.8	492.6	43342	10.184 ng/ml
Methamphetamine	3.289	61566	116.2	36.5	194.2	196139	10.492 ng/ml
Metoprolol	4.364	10736	988.1	91.1	1214.3	262727	9.793 ng/ml
Mirtazapine	4.645	15462	1926.8	50.0	122.5	109904	10.483 ng/ml
Mitragynine	5.245	1121	1112.1	35.1	411.5	43342	8.329 ng/ml
Morphine	1.267	5407	20115.5	24.5	77.2	5522	9.576 ng/ml
Nordiazepam	5.902	23951	6533.6	59.0	47180.9	75477	10.066 ng/ml
Norfentanyl	4.122	7583	528.0	42.3	101.3	336896	1.020 ng/ml
Norhydrocodone	3.125	1140	62.3	49.7 High	202.7	32502	59.438 ng/ml
Noroxycodone	2.982	23579	106.8	45.0	280.7	86179	9.952 ng/ml
O-desmethyl-tramadol	3.425	165346	948.1	6.3	264.5	748967	10.607 ng/ml
Oxazepam	5.768	18493	569.7	72.8	260.7	69937	10.391 ng/ml
Oxycodone	2.905	54451	20.5	31.3	2445.1	242584	10.223 ng/ml
Oxymorphone	1.465	34807	22515.4	47.0	7713.0	124488	9.559 ng/ml
Phentermine	3.828	16767	60.9	5.1	55.0	170601	9.695 ng/ml
Promethazine	5.563	3679	35.3	38.2	8.1 Low	16382	9.326 ng/ml
Quetiapine	5.550	10677	8273.4	63.2	6391.2	13834	10.105 ng/ml
Sertraline	5.783	1057	12.8	92.1	13.7	4268	10.236 ng/ml
Temazepam	5.824	50594	805.8	30.2	266.3	231353	9.627 ng/ml
Tramadol	4.283	122144	29076.4	3.5	93.1	589536	9.854 ng/ml
Trazodone	5.122	7267	288.1	83.2	18.1	31238	10.275 ng/ml
Venlafaxine	5.083	61175	5190.3	37.7	435.5	308727	10.501 ng/ml
Zolpidem	4.888	122983	162445.7	29.6	323.0	571796	9.972 ng/ml

AM #28 Multi-Drug Quant. Results

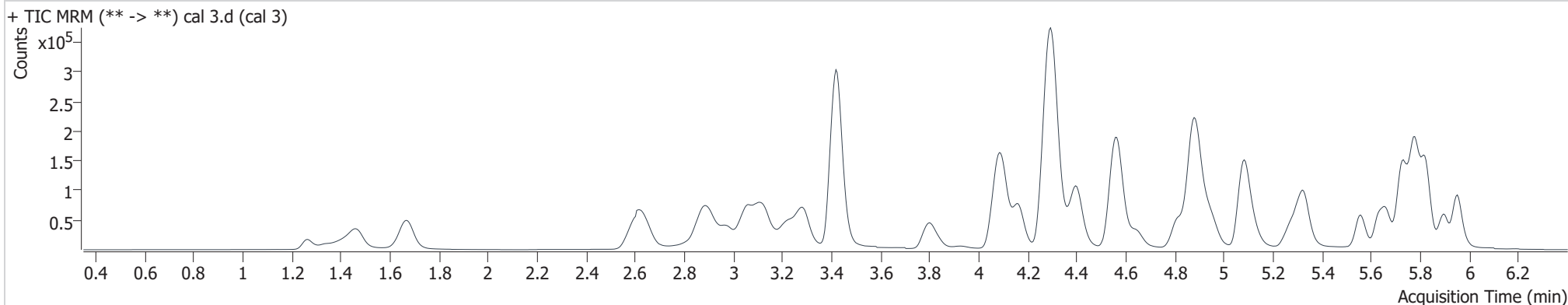
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin
8/20/2019 9:16:31 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 8/19/2019 10:41:41 AM
Sample Info.

Data File cal 3.d
Sample cal 3
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	3698	5278.7	71.1	6626.8	39213	2.712 ng/ml
7-aminoclonazepam	4.307	76715	70553.4	79.4	69222.0	105716	29.709 ng/ml
a-hydroxyalprazolam	5.709	9400	519.0	68.2	638.1	17415	28.412 ng/ml
alpha-PVP	4.407	112767	5668.3	51.8	1671.8	166142	28.138 ng/ml
Alprazolam	5.782	109576	2709.5	104.5	2660.7	116038	26.392 ng/ml
Amphetamine	3.127	153853	642.7	52.0	1093.9	78860	29.848 ng/ml
Benzoyllecgonine	3.936	5027	∞	9.0	∞	6346	27.065 ng/ml
Bupropion	4.824	70431	1281.8	60.0	705.8	83233	28.238 ng/ml
Carisoprodol	5.733	99231	107030.4	61.8	237.5	165255	28.796 ng/ml
Citalopram	5.266	28941	410.2	42.3	1154.5	40196	29.425 ng/ml
Clonazepam	5.633	54039	12960.5	33.4	13865.4	29081	29.768 ng/ml
Cocaine	4.302	124838	271.2	46.0	70597.7	386353	27.758 ng/ml
Codeine	2.653	25793	707.6	101.2	67054.7	40486	28.612 ng/ml
Cyclobenzaprine	5.635	21084	65173.4	10.5	3537.9	26709	28.476 ng/ml
Dextromethorphan	5.306	15497	788.2	77.4	396.8	25576	27.598 ng/ml
Dextrorphan	4.166	31261	57049.8	209.4	23439.2	123952	27.447 ng/ml
Diazepam	5.952	70697	2943.5	84.8	7629.6	110731	27.849 ng/ml
Dihydrocodeine	2.627	63459	845.1	68.0	344.9	118341	29.739 ng/ml

cal 3

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	80962	2093.0	35.4	2094.3	135264	27.372 ng/ml
Doxylamine	4.569	227953	70155.9	93.6	2834.8	331757	27.757 ng/ml
EDDP	5.295	11271	11074.6	242.7	387.1	47499	27.057 ng/ml
Fentanyl	5.112	1948	24.8	72.0	376.0	33671	2.646 ng/ml
Fluoxetine	5.715	26081	14687.3	8.9	2339.6	31909	30.242 ng/ml
Hydrocodone	3.079	60492	1041.5	43.2	23.5	126923	27.791 ng/ml
Hydromorphone	1.673	72322	5722.0	73.2	839.2	88205	28.329 ng/ml
Ketamine	4.081	136819	3882.7	36.8	560.4	215035	28.273 ng/ml
Lamotrigine	4.335	17073	1991.1	87.3	586.8	215035	26.683 ng/ml
Lorazepam	5.755	22654	3675.4	63.5	118.7	57351	28.710 ng/ml
Meprobamate	4.963	65185	8469.4	31.8	1422.3	106959	27.965 ng/ml
Methadone	5.664	39593	748.2	51.8	5589.6	66336	27.833 ng/ml
Methamphetamine	3.289	124758	173.2	39.4	98.9	160936	29.195 ng/ml
Metoprolol	4.364	25813	7774.4	96.0	991.6	215035	29.837 ng/ml
Mirtazapine	4.645	52540	16036.3	49.7	1006.6	135264	27.390 ng/ml
Mitragynine	5.250	5868	2529.0	39.7	3497.0	66336	29.915 ng/ml
Morphine	1.267	13993	77205.0	26.2	105.6	4681	28.157 ng/ml
Nordiazepam	5.902	57916	40685.7	59.4	17273.9	63855	28.040 ng/ml
Norfentanyl	4.122	18627	194.9	40.7	339.3	271696	2.671 ng/ml
Norhydrocodone	3.125	3081	70.2	39.3	139.0	25578	66.831 ng/ml
Noroxycodone	2.982	58495	253.0	43.6	2666.1	67902	29.061 ng/ml
O-desmethyl-tramadol	3.425	410373	26791.2	6.3	1916.7	625427	27.106 ng/ml
Oxazepam	5.768	43843	1214.0	70.9	333.5	57351	28.374 ng/ml
Oxycodone	2.905	134483	1606.1	31.5	965.0	201804	28.340 ng/ml
Oxymorphone	1.460	87119	205321.9	46.9	4945.4	104710	27.860 ng/ml
Phentermine	3.833	42139	197.2	5.1	107.0	141558	28.966 ng/ml
Promethazine	5.563	34609	918.9	32.9	451.6	49448	27.720 ng/ml
Quetiapine	5.550	37278	7420.8	60.1	31655.9	16937	27.464 ng/ml
Sertraline	5.782	11764	2942.9	105.1	9454.7	17646	27.044 ng/ml
Temazepam	5.824	126060	3133.3	30.1	444.9	193739	27.107 ng/ml
Tramadol	4.288	289601	536.7	3.5	79.2	481935	28.363 ng/ml
Trazodone	5.122	31277	5317.4	77.9	369.6	43835	26.415 ng/ml
Venlafaxine	5.083	149941	19829.3	37.3	97.9	253176	27.584 ng/ml
Zolpidem	4.893	302064	339435.5	29.6	696.5	481347	28.085 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

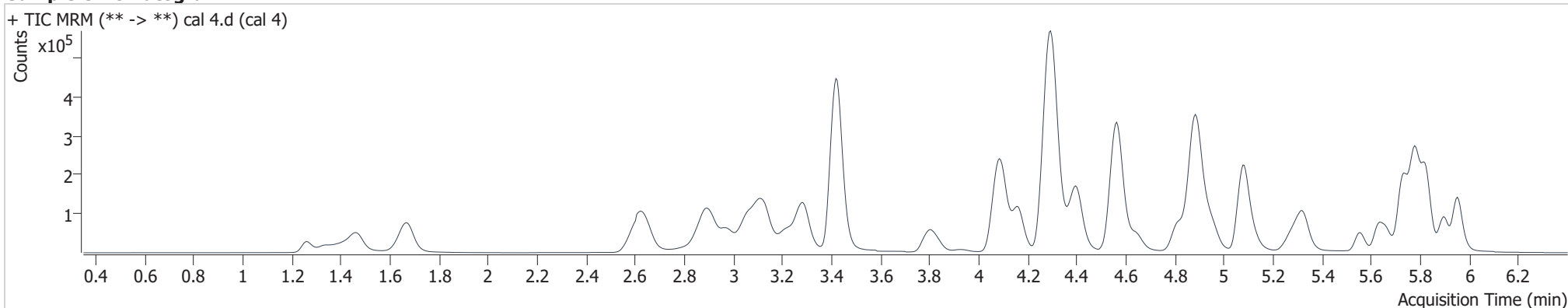
Calibration Last Update

8/20/2019 9:16:31 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-D1
Injection Volume 2
Acq. Date-Time 8/19/2019 10:52:28 AM
Sample Info.

Data File cal 4.d
Sample cal 4
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	6881	3523.7	73.4	4394.8	45593	4.311 ng/ml
7-aminoclonazepam	4.307	132208	10227.4	79.4	16065.3	111420	48.604 ng/ml
a-hydroxyalprazolam	5.709	17994	12254.0	58.0	2648.2	19950	47.251 ng/ml
alpha-PVP	4.402	218359	6119.7	52.5	3187.9	203606	44.088 ng/ml
Alprazolam	5.782	209463	828.3	101.6	6230.7	128795	43.869 ng/ml
Amphetamine	3.127	289653	512.3	51.9	1087.9	93046	47.736 ng/ml
Benzoyllecgonine	3.936	9096	∞	8.3	∞	6739	45.977 ng/ml
Bupropion	4.819	122768	894.2	60.9	1521.7	89455	45.461 ng/ml
Carisoprodol	5.733	177463	6208.5	62.0	4542.8	187016	45.233 ng/ml
Citalopram	5.261	34963	284.9	42.4	11363.0	32627	43.572 ng/ml
Clonazepam	5.633	99855	7722.3	33.8	10064.7	33804	47.171 ng/ml
Cocaine	4.302	249545	246080.6	45.3	162.3	477697	44.575 ng/ml
Codeine	2.648	50376	8877.8	100.8	280.7	48818	46.073 ng/ml
Cyclobenzaprine	5.635	12927	154816.6	11.4	∞	10425	43.731 ng/ml
Dextromethorphan	5.300	17627	171.6	76.6	885.7	18202	43.512 ng/ml
Dextropropriphan	4.161	60649	67029.6	202.7	107399.1	149296	43.079 ng/ml
Diazepam	5.957	134693	4277.3	85.1	175287.8	129416	44.438 ng/ml
Dihydrocodeine	2.627	122406	3392.2	68.5	913.0	141069	48.136 ng/ml

cal 4

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	105975	7744.7	35.3	1085.7	109392	43.088 ng/ml
Doxylamine	4.569	467249	4598.5	95.7	87263.0	418820	44.646 ng/ml
EDDP	5.295	20675	2308.2	237.5	4963.1	52938	44.119 ng/ml
Fentanyl	5.122	1643	10.7	61.5	914.6	16827	4.438 ng/ml
Fluoxetine	5.715	14797	17152.2	9.5	1853.9	11348	45.898 ng/ml
Hydrocodone	3.079	116297	2570.1	34.7	524.6	157636	42.190 ng/ml
Hydromorphone	1.673	138630	3900.7	76.3	2858.4	104247	45.675 ng/ml
Ketamine	4.082	270462	40072.2	35.8	3225.3	261357	45.808 ng/ml
Lamotrigine	4.335	31620	1310.6	86.8	9280.1	261357	46.263 ng/ml
Lorazepam	5.755	36289	2043.9	61.4	214.0	58800	44.776 ng/ml
Meprobamate	4.957	116855	8185.7	30.7	1930.3	119869	44.457 ng/ml
Methadone	5.664	41147	18978.8	52.3	636.8	43029	43.389 ng/ml
Methamphetamine	3.284	246380	1844.6	39.3	878.5	204560	46.598 ng/ml
Metoprolol	4.364	51570	2297.0	97.1	10865.5	261357	49.399 ng/ml
Mirtazapine	4.645	78749	53192.8	48.8	2734.6	109392	50.011 ng/ml
Mitragynine	5.250	5553	5225.1	37.3	69.2	43029	43.912 ng/ml
Morphine	1.262	25794	121154.4	25.6	54.0	5429	44.442 ng/ml
Nordiazepam	5.902	108343	116687.2	59.1	30456.2	72738	45.797 ng/ml
Norfentanyl	4.122	37867	333.1	41.4	543.7	339228	4.215 ng/ml
Norhydrocodone	3.130	7041	797.2	43.9	188.7	31290	75.885 ng/ml
Noroxycodone	2.982	109821	1909.5	42.2	354.4	81444	44.890 ng/ml
O-desmethyl-tramadol	3.425	782823	54344.7	6.5	793.9	744561	42.083 ng/ml
Oxazepam	5.763	72182	913.0	70.6	338.0	58800	45.028 ng/ml
Oxycodone	2.900	260241	1791.5	30.7	988.8	238537	45.745 ng/ml
Oxymorphone	1.460	163568	61.2	47.1	195271.0	121085	45.051 ng/ml
Phentermine	3.833	83724	464.8	4.9	159.7	173042	46.956 ng/ml
Promethazine	5.563	22298	17383.7	32.6	566.7	20119	43.522 ng/ml
Quetiapine	5.550	52797	347.9	59.5	47007.5	14289	45.610 ng/ml
Sertraline	5.777	6512	1396.2	94.0	4052.7	5776	45.520 ng/ml
Temazepam	5.824	233998	4234.6	30.5	906.5	218535	44.105 ng/ml
Tramadol	4.283	583385	2848.6	3.5	520.4	604304	45.497 ng/ml
Trazodone	5.122	38861	71.5	79.5	9534.2	33696	41.175 ng/ml
Venlafaxine	5.078	299379	22646.7	38.7	4909.3	317316	42.810 ng/ml
Zolpidem	4.893	607325	3244.9	29.9	53304.8	597246	45.182 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-E1

Injection Volume

2

Acq. Date-Time

8/19/2019 11:03:16 AM

Sample Info.

Data File

cal 5.d

Sample

cal 5

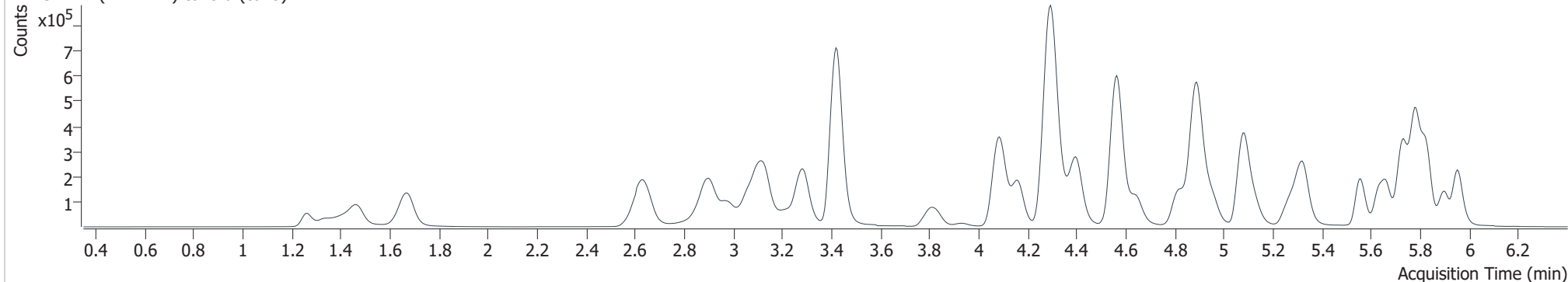
Operator

Anne Nord

Comment

Sample Chromatogram

+ TIC MRM (** -> **) cal 5.d (cal 5)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	14764	983.2	73.3	19602.7	46308	9.054 ng/ml
7-aminoclonazepam	4.307	284954	1336.7	81.2	15617.4	118629	98.433 ng/ml
a-hydroxyalprazolam	5.704	33319	372.8	62.1	2842.7	18558	93.723 ng/ml
alpha-PVP	4.402	434592	25758.1	52.7	1197.4	197019	90.003 ng/ml
Alprazolam	5.782	403965	5506.6	104.5	1816.8	124192	85.549 ng/ml
Amphetamine	3.127	598501	6479.0	52.7	5722.5	96687	95.105 ng/ml
Benzoyllecgonine	3.931	20065	∞	8.1	44237.1	7670	88.925 ng/ml
Bupropion	4.819	270154	4711.7	60.6	2414.4	97320	91.398 ng/ml
Carisoprodol	5.733	345266	248511.9	62.4	4396.5	177410	92.278 ng/ml
Citalopram	5.261	121516	7392.2	42.6	5473.4	53767	91.391 ng/ml
Clonazepam	5.633	183449	10449.5	34.6	50123.1	31695	92.181 ng/ml
Cocaine	4.302	499741	702.7	45.4	248.3	465871	91.016 ng/ml
Codeine	2.653	100437	347.2	104.8	576.8	47946	93.079 ng/ml
Cyclobenzaprine	5.635	94793	140619.9	10.8	4191.0	37083	88.295 ng/ml
Dextromethorphan	5.300	67360	3516.2	75.7	1265.7	32709	91.395 ng/ml
Dextrorphan	4.161	127320	130444.4	209.5	2075.9	149493	88.283 ng/ml
Diazepam	5.957	264624	6650.2	86.0	4619.9	127369	87.192 ng/ml
Dihydrocodeine	2.627	255466	1294.8	69.4	34930.4	145526	97.408 ng/ml

cal 5

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	351432	64944.6	34.4	334.1	176188	86.638 ng/ml
Doxylamine	4.564	977140	3857.4	96.6	48323.9	427316	90.799 ng/ml
EDDP	5.290	49182	52988.9	242.8	3001.1	63168	87.312 ng/ml
Fentanyl	5.117	9187	130.4	69.4	5817.0	46717	8.896 ng/ml
Fluoxetine	5.715	123393	150650.1	8.2	7828.3	44384	93.389 ng/ml
Hydrocodone	3.074	230954	567.0	45.5	872.3	158060	82.077 ng/ml
Hydromorphone	1.673	289199	21627.3	76.9	11802.0	107510	91.943 ng/ml
Ketamine	4.082	558365	1852.8	36.4	2270.5	266170	92.573 ng/ml
Lamotrigine	4.335	64493	1669.7	88.8	2387.7	266170	103.385 ng/ml
Lorazepam	5.755	57075	3587.8	62.4	374.1	44668	92.548 ng/ml
Meprobamate	4.957	231177	80790.1	31.4	252.4	115296	90.951 ng/ml
Methadone	5.664	168261	2786.7	52.9	2293.4	84719	87.964 ng/ml
Methamphetamine	3.284	465102	2053.4	39.9	329.9	200191	91.959 ng/ml
Metoprolol	4.359	106401	1531.5	94.8	2992.0	266170	100.646 ng/ml
Mirtazapine	4.645	225520	261185.5	48.7	112501.7	176188	88.236 ng/ml
Mitragynine	5.250	28165	21351.5	38.3	1010.6	84719	114.054 ng/ml
Morphine	1.262	52561	320534.7	26.9	130.6	5551	88.053 ng/ml
Nordiazepam	5.902	202239	227240.1	59.5	24587.6	66548	93.030 ng/ml
Norfentanyl	4.122	78025	565.1	41.2	221.3	343031	8.367 ng/ml
Norhydrocodone	3.125	17962	147.7	41.5	127.4	32473	104.297 ng/ml
Noroxycodone	2.982	215751	3484.9	43.7	1222.4	76520	92.709 ng/ml
O-desmethyl-tramadol	3.425	1662879	79974.1	6.4	3017.5	769870	84.091 ng/ml
Oxazepam	5.763	111068	2807.8	69.7	1040.1	44668	90.301 ng/ml
Oxycodone	2.900	537527	1337.9	31.7	1321.3	249422	89.366 ng/ml
Oxymorphone	1.460	345367	1096857.7	46.5	435657.6	100124	114.579 ng/ml
Phentermine	3.828	172113	571.1	4.9	351.8	178202	93.538 ng/ml
Promethazine	5.558	165351	235281.4	32.3	837.4	70485	91.411 ng/ml
Quetiapine	5.550	164411	121472.7	60.0	116454.3	22760	88.474 ng/ml
Sertraline	5.777	53620	2591.3	97.3	53010.7	23332	92.468 ng/ml
Temazepam	5.829	457394	13014.3	29.8	1074.6	208989	89.336 ng/ml
Tramadol	4.283	1163957	609.5	3.5	673.5	600544	91.227 ng/ml
Trazodone	5.122	137681	150366.9	79.6	50269.6	56419	84.373 ng/ml
Venlafaxine	5.078	633468	1323.7	37.7	1266.8	329438	85.267 ng/ml
Zolpidem	4.893	1243453	135212.8	30.0	336086.8	597532	91.912 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

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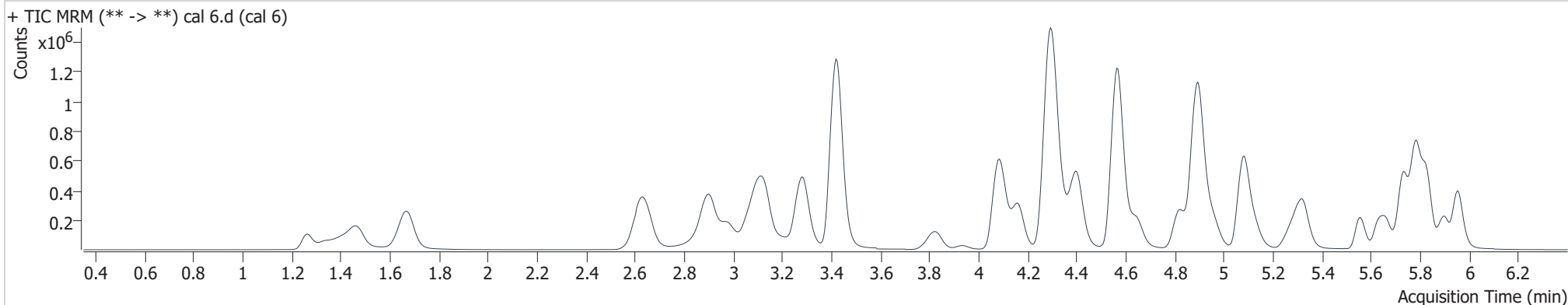
Calibration Last Update

8/20/2019 9:16:31 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-F1
Injection Volume 2
Acq. Date-Time 8/19/2019 11:14:03 AM
Sample Info.

Data File cal 6.d
Sample cal 6
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	34160	3510.2	72.6	837.6	44102	21.928 ng/ml
7-aminoclonazepam	4.307	513452	15289.2	80.4	16772.0	91002	231.263 ng/ml
a-hydroxyalprazolam	5.704	65065	576.8	59.8	745.4	15251	222.243 ng/ml
alpha-PVP	4.402	963478	2217.0	53.1	1443.9	177273	220.820 ng/ml
Alprazolam	5.787	818289	10421.0	102.1	6171.8	100617	210.605 ng/ml
Amphetamine	3.122	1172871	1006.6	52.1	8394.0	81626	221.010 ng/ml
Benzoylcegonine	3.936	47222	∞	7.5	∞	7006	228.806 ng/ml
Bupropion	4.824	542399	5097.1	61.1	990.6	79308	224.386 ng/ml
Carisoprodol	5.733	688057	585449.6	60.9	2462.1	146259	222.395 ng/ml
Citalopram	5.261	167828	13187.6	44.0	426.3	31279	216.347 ng/ml
Clonazepam	5.633	360175	21598.7	34.8	87881.7	24920	229.807 ng/ml
Cocaine	4.302	1081880	1616.5	45.1	752.9	410045	223.150 ng/ml
Codeine	2.653	207362	7257.7	104.1	7277.7	41045	223.866 ng/ml
Cyclobenzaprine	5.635	70594	240229.7	10.0	1940.0	11145	216.208 ng/ml
Dextromethorphan	5.300	83877	5842.7	76.6	437.7	17400	212.598 ng/ml
Dextrorphan	4.161	251083	72829.3	216.7	468992.6	124096	207.178 ng/ml
Diazepam	5.957	550429	7353.6	86.1	33011.5	106839	213.960 ng/ml
Dihydrocodeine	2.622	563814	1861.2	68.4	972.3	137175	228.098 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	511469	963.4	35.2	3868.9	106341	206.140 ng/ml
Doxylamine	4.569	2163325	171087.0	96.3	202236.4	380753	224.601 ng/ml
EDDP	5.295	111181	118573.7	238.7	13045.6	55616	223.169 ng/ml
Fentanyl	5.122	8748	1734.4	65.8	713.3	16423	24.026 ng/ml
Fluoxetine	5.715	73505	5578.8	8.5	4969.4	10927	220.359 ng/ml
Hydrocodone	3.074	546322	1110.5	41.7	1128.2	141222	214.809 ng/ml
Hydromorphone	1.668	605406	48557.8	80.5	9847.5	96409	214.054 ng/ml
Ketamine	4.082	1251617	2035.0	36.5	3009.5	246684	223.504 ng/ml
Lamotrigine	4.335	130361	4331.3	89.5	1127.5	246684	238.119 ng/ml
Lorazepam	5.755	86430	1056.8	59.1	320.5	24635	253.869 ng/ml
Meprobamate	4.957	453442	178.0	30.8	1914.5	94338	217.383 ng/ml
Methadone	5.664	203318	5356.9	53.2	23563.9	43696	203.396 ng/ml
Methamphetamine	3.284	1032397	1295.4	39.5	2611.6	186101	222.680 ng/ml
Metoprolol	4.364	212858	171014.1	98.0	4306.3	246684	217.887 ng/ml
Mirtazapine	4.645	392533	9511.1	49.4	1990.2	106341	252.796 ng/ml
Mitragynine	5.250	28017	597.9	38.3	6291.5	43696	220.514 ng/ml
Morphine	1.267	116412	375835.3	26.1	41778.2	4602	234.361 ng/ml
Nordiazepam	5.902	370867	55242.1	59.4	9583.3	51006	222.033 ng/ml
Norfentanyl	4.122	183220	145594.6	40.1	358.7	305539	21.710 ng/ml
Norhydrocodone	3.125	55331	375.6	41.9	710.8	30605	212.945 ng/ml
Noroxycodone	2.977	441847	3236.0	43.6	1025.3	65455	220.484 ng/ml
O-desmethyl-tramadol	3.420	3729144	296375.3	6.4	385.7	692003	206.449 ng/ml
Oxazepam	5.763	144643	4551.4	71.7	1149.1	24635	212.029 ng/ml
Oxycodone	2.900	1216631	7478.6	30.9	3361.0	229386	218.444 ng/ml
Oxymorphone	1.460	734101	2810.8	47.1	1988230.3	110290	220.823 ng/ml
Phentermine	3.828	368938	1005.5	4.7	772.9	155542	229.429 ng/ml
Promethazine	5.563	122433	44309.9	32.2	1052.7	21481	221.180 ng/ml
Quetiapine	5.550	280195	279044.3	60.0	3982.7	15418	221.478 ng/ml
Sertraline	5.783	28459	14179.1	100.7	43752.5	4901	233.163 ng/ml
Temazepam	5.829	886120	39554.3	29.7	3825.1	162120	221.943 ng/ml
Tramadol	4.283	2502408	292251.0	3.5	4545.5	542206	217.076 ng/ml
Trazodone	5.127	226007	224332.8	78.6	10210.2	35940	213.532 ng/ml
Venlafaxine	5.083	1345871	105302.6	38.2	8152.9	280916	209.600 ng/ml
Zolpidem	4.893	2867944	597.3	30.2	1645878.1	570714	221.206 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

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Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-G1

Injection Volume

2

Acq. Date-Time

8/19/2019 11:24:51 AM

Sample Info.

Data File

cal 7.d

Sample

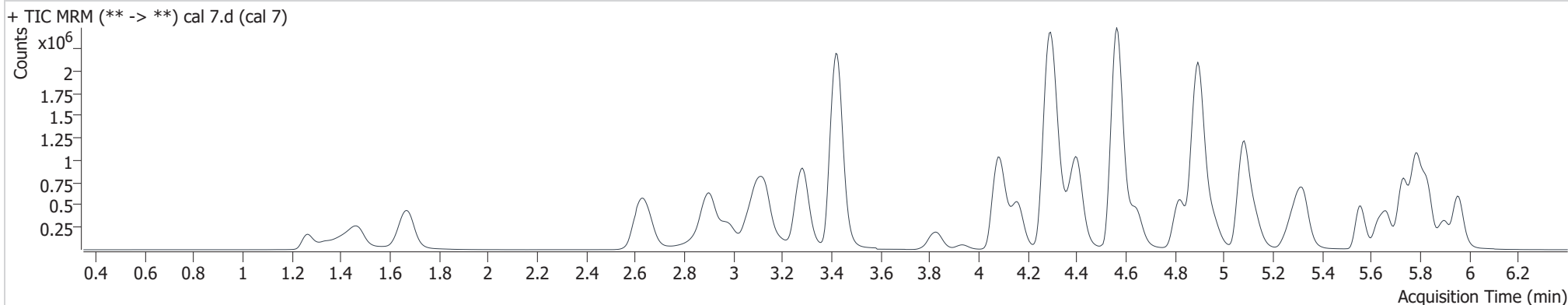
cal 7

Operator

Anne Nord

Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	65659	1089.3	74.4	401.2	33103	56.076 ng/ml
7-aminoclonazepam	4.307	736774	22871.3	80.1	25937.3	56865	531.117 ng/ml
a-hydroxyalprazolam	5.704	106221	1280.9	58.9	1138.1	10289	537.322 ng/ml
alpha-PVP	4.402	2067747	126219.2	52.3	23309.5	150872	555.858 ng/ml
Alprazolam	5.787	1290107	16857.7	104.9	124.5	64677	513.364 ng/ml
Amphetamine	3.127	2064066	2583.8	50.4	803.7	59988	529.489 ng/ml
Benzoylcegonine	3.931	96157	∞	8.2	∞	5989	544.688 ng/ml
Bupropion	4.819	1185978	8167.4	61.0	5598.2	70597	550.377 ng/ml
Carisoprodol	5.733	1110751	1033470.7	61.3	2308.8	96983	540.760 ng/ml
Citalopram	5.261	357652	2242.7	42.8	203.2	25829	557.612 ng/ml
Clonazepam	5.633	592520	3539.6	33.5	206008.5	17425	540.321 ng/ml
Cocaine	4.302	2085294	276507.4	44.5	121173.0	317404	554.923 ng/ml
Codeine	2.653	350833	23224.4	102.4	526.5	28457	545.674 ng/ml
Cyclobenzaprine	5.635	173733	693495.8	10.2	∞	11640	507.095 ng/ml
Dextromethorphan	5.300	183347	59301.9	77.6	6239.6	13882	580.712 ng/ml
Dextrorphan	4.161	471231	315310.4	212.0	117861.8	91180	526.318 ng/ml
Diazepam	5.957	927194	22159.0	85.9	7465.8	73031	525.031 ng/ml
Dihydrocodeine	2.622	1018918	72576.7	68.2	653.4	105662	535.190 ng/ml

cal 7

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	1083184	83194.2	34.9	2875.3	89570	515.333 ng/ml
Doxylamine	4.564	4518096	440938.7	95.7	36903.7	321915	553.817 ng/ml
EDDP	5.295	281224	4156.7	244.1	2241.8	56431	555.383 ng/ml
Fentanyl	5.117	19181	288.4	70.5	17585.7	15664	55.178 ng/ml
Fluoxetine	5.715	181635	169503.3	8.6	1608.0	11282	521.906 ng/ml
Hydrocodone	3.074	992911	1784.4	42.1	543.6	107250	511.958 ng/ml
Hydromorphone	1.668	1142813	4211980.3	77.2	494047.0	70311	553.349 ng/ml
Ketamine	4.082	2470153	1805410.2	36.1	1286.8	196585	553.103 ng/ml
Lamotrigine	4.335	217628	2114.6	87.9	4258.9	196585	510.549 ng/ml
Lorazepam	5.755	113486	4218.3	60.8	457.4	10476	783.595 ng/ml
Meprobamate	4.957	763432	530769.2	30.2	18600.5	63274	544.986 ng/ml
Methadone	5.664	484656	31902.2	51.4	4465.7	39590	531.868 ng/ml
Methamphetamine	3.284	1900744	7268.4	39.8	6710.1	142860	537.192 ng/ml
Metoprolol	4.364	383249	3037.9	96.9	395.9	196585	492.978 ng/ml
Mirtazapine	4.645	840233	842.9	49.3	90936.6	89570	641.081 ng/ml
Mitragynine	5.250	59550	64521.1	39.4	22230.5	39590	518.109 ng/ml
Morphine	1.267	208179	565131.1	25.8	520837.7	3392	567.806 ng/ml
Nordiazepam	5.902	570737	35315.5	58.4	240120.4	32009	543.918 ng/ml
Norfentanyl	4.122	359418	18089.5	40.5	257.5	233522	55.388 ng/ml
Norhydrocodone	3.125	126177	287.7	41.6	848.6	23119	528.967 ng/ml
Noroxycodone	2.977	750889	1388.1	43.1	360.0	45739	534.690 ng/ml
O-desmethyl-tramadol	3.420	7166106	196915.4	6.2	26153.1	521166	523.291 ng/ml
Oxazepam	5.763	157943	1720.7	70.8	2729.8	10476	543.085 ng/ml
Oxycodone	2.900	2259825	2782.4	31.4	2311.5	176719	525.232 ng/ml
Oxymorphone	1.460	1299904	3521871.3	46.5	1155862.2	81566	528.308 ng/ml
Phentermine	3.828	682643	1511.1	4.6	679.9	122481	538.832 ng/ml
Promethazine	5.563	309316	281060.2	32.3	1992.5	21314	562.186 ng/ml
Quetiapine	5.550	634327	68206.7	60.6	367306.2	14130	546.032 ng/ml
Sertraline	5.777	67460	60151.4	97.7	43343.1	4878	554.955 ng/ml
Temazepam	5.829	1368588	74644.7	30.3	5119.4	99283	558.553 ng/ml
Tramadol	4.283	4721033	266645.0	3.4	416.3	396475	559.886 ng/ml
Trazodone	5.127	524408	419644.8	79.9	26204.0	31693	557.837 ng/ml
Venlafaxine	5.078	2860177	1990.2	37.5	19420.4	237083	524.884 ng/ml
Zolpidem	4.893	5743810	702343.4	29.5	2362.0	453910	556.225 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28-27 081619\QuantResults\mdq.batch.bin

Calibration Last Update

8/20/2019 9:16:31 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-H1

Injection Volume

2

Acq. Date-Time

8/19/2019 11:35:39 AM

Sample Info.

Data File

cal 8.d

Sample

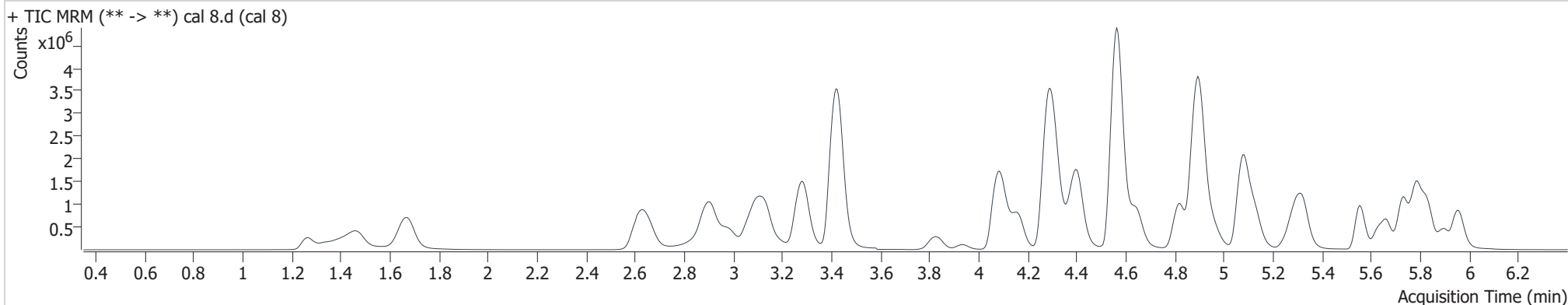
cal 8

Operator

Anne Nord

Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	126106	2637.6	74.7	26753.2	30513	116.792 ng/ml
7-aminoclonazepam	4.307	772530	18126.6	83.1	14243.1	35174	900.334 ng/ml
a-hydroxyalprazolam	5.704	170090	194.4	58.6	745.6	8978	985.747 ng/ml
alpha-PVP	4.402	3720080	2673.6	52.0	84916.6	134441	1121.613 ng/ml
Alprazolam	5.787	1919528	11055.3	105.8	2138.9	47240	1043.492 ng/ml
Amphetamine	3.127	2915670	1718.6	50.0	1707.3	45274	991.209 ng/ml
Benzoylcegonine	3.931	210581	∞	7.9	∞	6326	1129.237 ng/ml
Bupropion	4.819	2194141	3396.8	60.4	7338.8	66745	1076.485 ng/ml
Carisoprodol	5.733	1714885	780335.5	60.2	28300.8	76868	1052.910 ng/ml
Citalopram	5.261	569380	39702.3	42.3	250226.2	21238	1079.157 ng/ml
Clonazepam	5.633	942978	50520.3	33.4	941.4	15092	992.619 ng/ml
Cocaine	4.302	3534679	346571.1	44.4	814.1	271344	1099.812 ng/ml
Codeine	2.658	561621	467.3	101.9	8265.1	23796	1044.221 ng/ml
Cyclobenzaprine	5.635	224875	2001878.3	10.4	13687.8	7331	1040.353 ng/ml
Dextromethorphan	5.300	297134	1417.4	76.8	1571.7	11748	1111.218 ng/ml
Dextrorphan	4.161	709139	252510.7	215.1	552.3	69908	1031.259 ng/ml
Diazepam	5.957	1483133	14480.6	85.6	6405.0	59732	1025.364 ng/ml
Dihydrocodeine	2.617	1709170	776.9	70.5	42631.5	102309	927.183 ng/ml

cal 8

Generated at 9:19 AM on 8/20/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.327	1858682	4241.4	34.1	2948.4	75658	1044.860 ng/ml
Doxylamine	4.564	9178618	246289.3	95.0	5364.2	327278	1105.980 ng/ml
EDDP	5.295	643835	10726.6	240.7	7706.6	62156	1153.680 ng/ml
Fentanyl	5.122	30691	1087.0	72.4	18999.8	11954	115.649 ng/ml
Fluoxetine	5.715	184522	85987.7	8.5	10773.7	5882	1013.206 ng/ml
Hydrocodone	3.074	1741143	1347.8	42.1	1009.4	92063	1044.276 ng/ml
Hydromorphone	1.668	2004470	15164.3	76.9	69564.5	62365	1093.801 ng/ml
Ketamine	4.082	4587923	2182.1	36.0	3275.6	192880	1046.782 ng/ml
Lamotrigine	4.335	325159	3535.3	87.6	3314.8	192880	783.060 ng/ml
Lorazepam	5.755	157791	2752.8	59.2	1576.0	6496	1756.652 ng/ml
Meprobamate	4.957	1218071	1561.4	30.5	2040.5	48510	1133.670 ng/ml
Methadone	5.664	782547	4580.0	53.1	29464.0	32971	1029.294 ng/ml
Methamphetamine	3.284	3289382	30120.8	39.2	3822.5	131447	1012.339 ng/ml
Metoprolol	4.364	554352	2424.6	96.1	57121.5	192880	727.026 ng/ml
Mirtazapine	4.645	1732806	94367.3	48.7	247084.5	75658	1563.935 ng/ml
Mitragynine	5.250	94158	3474.3	37.5	37539.0	32971	984.198 ng/ml
Morphine	1.267	343992	1928970.1	26.1	254408.2	2998	1061.066 ng/ml
Nordiazepam	5.902	820942	15689.9	58.6	9675.2	23522	1064.281 ng/ml
Norfentanyl	4.122	664360	1898.2	40.3	9089.3	193340	123.396 ng/ml
Norhydrocodone	3.125	220398	23345.8	42.0	241.0	19259	1047.316 ng/ml
Noroxycodone	2.977	1143240	831.0	43.7	3477.1	37093	1002.898 ng/ml
O-desmethyl-tramadol	3.422	12679514	1442.7	6.1	11470.3	462964	1040.073 ng/ml
Oxazepam	5.763	181463	2917.1	69.0	349.8	6496	1005.378 ng/ml
Oxycodone	2.900	4085389	15169.9	31.5	2726.8	164811	1017.180 ng/ml
Oxymorphone	1.460	2172582	2518626.5	46.6	89.0	72800	989.050 ng/ml
Phentermine	3.828	1084053	4469.6	4.5	2684.1	103921	1008.328 ng/ml
Promethazine	5.563	400685	6472.1	32.7	3122.8	13664	1135.365 ng/ml
Quetiapine	5.550	1487247	1621299.1	58.9	502502.6	16058	1125.718 ng/ml
Sertraline	5.783	55581	55079.8	100.7	47851.9	2160	1032.363 ng/ml
Temazepam	5.829	2074657	38820.4	29.9	2983.4	72828	1153.459 ng/ml
Tramadol	4.278	7708908	276586.0	3.3	662.3	337164	1074.948 ng/ml
Trazodone	5.127	1318148	67589.7	80.2	1266.4	38593	1148.835 ng/ml
Venlafaxine	5.078	5223306	368111.1	37.3	5225.9	219544	1033.273 ng/ml
Zolpidem	4.893	11292877	363451.7	29.0	24529.2	464514	1068.142 ng/ml