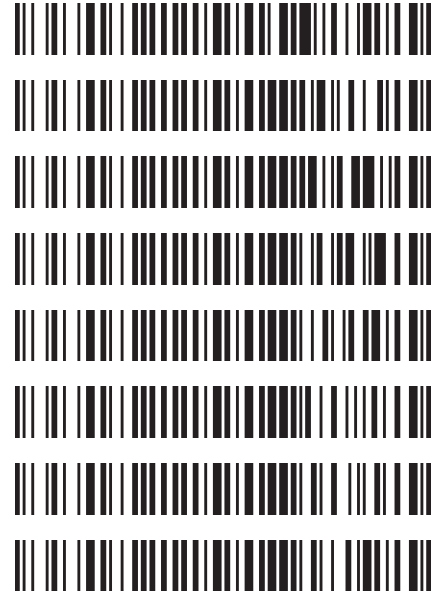




Worklist: 3463

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
C2019-0933	1	154201	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-0985	1	154202	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1003	2	154203	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1055	1	154204	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1057	1	154205	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1071	1	154206	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1074	2	154207	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2019-1079	1	154208	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC



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

Extraction Date: 06-10-19 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: 19A207P3

Column: Agilent 120 EC-C18 (2.1x 100-~~4~~^{9/18/19}um) **A**
LCMS-QQQ ID: 69679 2.7

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 00.5M 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
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
Worklist path: *MassHunter|Data|2019/am 28 061019* Batch Name: *mdq*
- 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: amphetamine 5-500, dihydrocodeine 5-500, lamotrigine 5-250, norhydrocodone 10-1000, mitragynine 5-100, phentermine 5-500, trazodone 5-100, zolpidem 5-500 Mirtazapine 10-1000 **A** 6/13/19

Not evaluated Morphine and Oxymorphone split peaks.



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)
doxepine ^{6/13/19} A	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

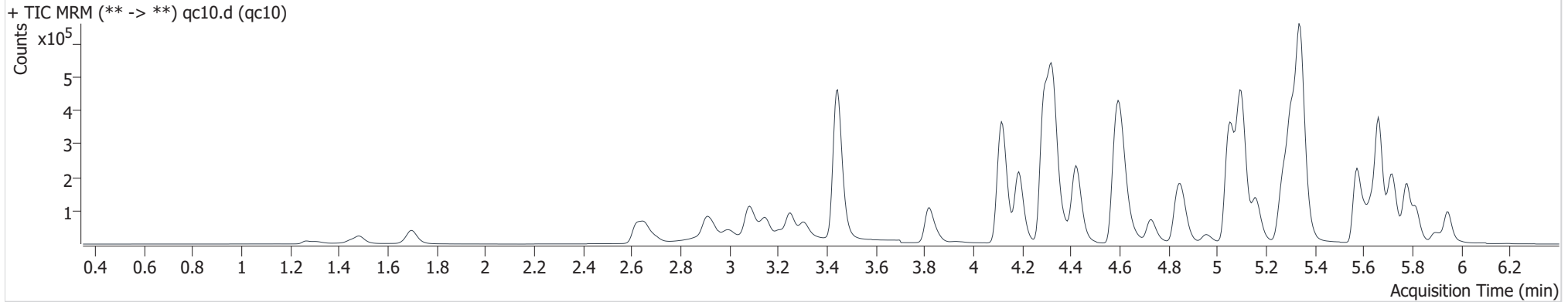
Batch results
Calibration Last Update

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Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-A2
Injection Volume 2
Acq. Date-Time 6/10/2019 7:02:46 PM
Sample Info.

Data File qc10.d
Sample qc10
Operator Anne Nord
Comment

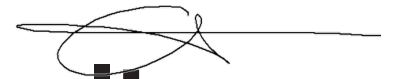
Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.219	1764	3780.1	68.5	252.3	54504	1.039 ng/ml
7-aminoclonazepam	4.338	23184	259.7	83.8	1551.3	92182	10.129 ng/ml
a-hydroxyalprazolam	5.709	2146	2037.6	63.6	1435.3	11100	9.852 ng/ml
alpha-PVP	4.433	107584	6238.9	52.2	3411.4	475916	9.991 ng/ml
Alprazolam	5.777	42250	1437.2	111.4	4191.6	138012	10.406 ng/ml
Amphetamine	3.152	82700	114.6	54.0	479.3	118420	11.020 ng/ml
Benzoyllecgonine	3.956	2272	20.9	8.5	90.9	7437	10.360 ng/ml
Buprenorphine	5.949	1201	∞	18.2	93.6	44542	1.175 ng/ml
Bupropion	4.860	121621	4227.5	58.8	2129.5	396774	10.987 ng/ml
Carisoprodol	5.728	35143	1234.2	58.4	334.2	173496	10.099 ng/ml
Citalopram	5.282	62047	6146.5	46.3	857.9	268400	10.046 ng/ml
Clonazepam	5.628	6678	1365.2	36.3	3023.5	10076	10.956 ng/ml
Cocaine	4.327	99225	166.1	43.5	177.2	861203	10.233 ng/ml
Codeine	2.699	11139	482.5	105.0	1954.0	51445	10.259 ng/ml
Cyclobenzaprine	5.640	50215	2132.1	10.8	450.2	186428	10.231 ng/ml
Dextromethorphan	5.321	40874	435.4	75.3	1620.6	207295	9.675 ng/ml
Dextrorphan	4.187	36678	2864.1	219.8	6083.7	415500	10.532 ng/ml
Diazepam	5.947	31737	958.0	86.8	2465.2	136678	10.548 ng/ml

qc10

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.657	32346	217.0	64.4	134.8	174886	10.542 ng/ml
Diphenhydramine	5.342	209078	6184.6	34.9	608.1	1003503	10.557 ng/ml
Doxylamine	4.609	259142	1063.3	96.7	25139.0	1085397	10.528 ng/ml
EDDP	5.305	38613	675.1	241.5	4229.4	487081	9.299 ng/ml
Fentanyl	5.174	5852	31.6	72.1	7725.7	298347	0.971 ng/ml
Fluoxetine	5.710	51514	1675.7	8.9	3347.6	196501	9.485 ng/ml
Hydrocodone	3.114	29649	2445.6	40.6	407.1	172312	9.990 ng/ml
Hydromorphone	1.708	24643	4731.2	67.3	30.2	89869	10.450 ng/ml
Ketamine	4.127	81146	18951.6	37.4	536.6	378865	10.350 ng/ml
Lamotrigine	4.380	9478	380.5	89.7	166.6	415500	11.605 ng/ml
Lorazepam	5.755	4425	67.1	60.5	10.6	138012	11.475 ng/ml
Meprobamate	4.978	12165	14439.1	31.3	228.0	56701	10.387 ng/ml
Methadone	5.664	126143	2550.5	46.8	3051.3	578594	10.844 ng/ml
Methamphetamine	3.309	24219	24.2	271.2	64.7	210673	10.360 ng/ml
Metoprolol	4.379	24251	1465.9	96.6	482.0	173496	9.116 ng/ml
Mirtazapine	4.732	126511	1525.4	47.9	1683.3	578594	10.418 ng/ml
Mitragynine	5.302	15557	631.4	39.4	5731.7	578594	9.359 ng/ml
Norbuprenorphine	5.055	142	181.4	92.9	138.6	5310	0.954 ng/ml
Nordiazepam	5.897	12792	2989.8	61.4	2527.1	41977	10.020 ng/ml
Norfentanyl	4.142	13197	761.5	42.0	229.2	538753	0.986 ng/ml
Norhydrocodone	3.156	1623	339.8	39.4	98.9	41016	11.742 ng/ml
Noroxycodone	3.012	20290	481.0	41.0	377.8	74016	9.968 ng/ml
O-desmethyl-tramadol	3.450	216900	14297.3	6.5	97.3	971268	10.255 ng/ml
Oxazepam	5.763	5139	164.3	84.2	16.0	21584	9.496 ng/ml
Oxycodone	2.935	53356	1972.1	28.1	1280.6	236187	10.410 ng/ml
Phentermine	3.853	29580	59.0	4.8	21.5	285582	10.426 ng/ml
Promethazine	5.573	84495	688.8	32.9	672.4	354892	10.078 ng/ml
Quetiapine	5.611	89225	2838.4	56.8	39821.4	117835	10.342 ng/ml
Sertraline	5.783	26038	1488.2	100.4	6383.9	111492	10.459 ng/ml
Temazepam	5.819	32148	1375.8	30.9	117.8	146845	10.089 ng/ml
Tramadol	4.303	217904	508.9	3.5	210.7	1020033	10.658 ng/ml
Trazodone	5.323	77872	5198.4	79.7	5154.0	344667	11.005 ng/ml
Venlafaxine	5.099	167478	14367.6	39.7	555.7	826529	10.610 ng/ml
Zolpidem	5.072	202474	19211.6	31.2	4361.6	919126	10.250 ng/ml

AM #28 Multi-Drug Quant. Results

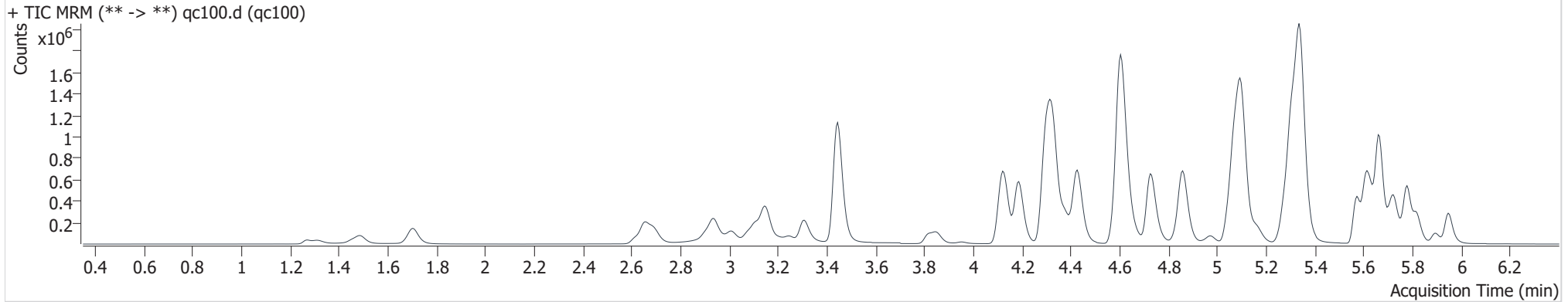
Batch results
Calibration Last Update

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6/12/2019 10:11:58 AM

Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-B2
Injection Volume 2
Acq. Date-Time 6/10/2019 7:13:36 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	3.219	15382	2731.4	74.7	694.2	52504	9.134 ng/ml
7-aminoclonazepam	4.338	186213	42964.8	85.5	12044.4	75211	95.947 ng/ml
a-hydroxyalprazolam	5.704	20693	915.0	58.4	1291.4	11416	98.339 ng/ml
alpha-PVP	4.428	950365	1830.2	52.5	33461.6	430356	99.296 ng/ml
Alprazolam	5.777	360607	1701.9	112.9	3759.3	119522	100.884 ng/ml
Amphetamine	3.152	541965	3200.5	52.7	2118.3	89652	108.820 ng/ml
Benzoylcegonine	3.951	21603	32853.6	7.7	331.4	7448	99.378 ng/ml
Buprenorphine	5.944	8981	49.5	16.0	1182.0	39404	10.780 ng/ml
Bupropion	4.860	1056623	20717.6	59.5	22915.2	351587	111.201 ng/ml
Carisoprodol	5.728	306131	13624.7	58.8	3324.1	154830	97.792 ng/ml
Citalopram	5.282	520539	3163.9	47.6	4442.2	233695	101.663 ng/ml
Clonazepam	5.633	56916	2419.7	33.8	15859.6	9166	105.314 ng/ml
Cocaine	4.322	857197	2044.9	42.9	29774.7	780541	98.607 ng/ml
Codeine	2.694	97372	34543.4	106.6	345.9	45426	99.484 ng/ml
Cyclobenzaprine	5.640	312179	113238.9	10.9	2205.0	117736	101.433 ng/ml
Dextromethorphan	5.321	327551	2949.1	76.5	38378.2	167176	96.382 ng/ml
Dextrorphan	4.187	350946	1685.8	212.2	87546.7	386848	107.175 ng/ml
Diazepam	5.947	273851	5094.3	84.6	4881.4	121640	109.744 ng/ml

qc100

Generated at 10:18 AM on 6/12/2019

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.657	290712	40652.0	64.9	1254.8	170479	104.550 ng/ml
Diphenhydramine	5.342	1871602	5660.0	33.9	1982.7	875449	98.409 ng/ml
Doxylamine	4.604	2481278	163476.1	98.6	103198.2	1079409	101.922 ng/ml
EDDP	5.305	439341	415348.1	240.5	683413.3	534556	98.107 ng/ml
Fentanyl	5.173	51020	1291.9	74.6	54782.8	255488	9.789 ng/ml
Fluoxetine	5.710	284720	16128.0	8.8	2698.3	112752	95.424 ng/ml
Hydrocodone	3.109	284268	937.7	40.4	1644.5	166661	114.138 ng/ml
Hydromorphone	1.708	223829	62769.5	74.2	5019.9	82660	99.530 ng/ml
Ketamine	4.127	741886	115461.2	37.3	112.4	365492	104.309 ng/ml
Lamotrigine	4.380	80487	5330.4	87.0	695.3	386848	104.072 ng/ml
Lorazepam	5.750	34453	391.9	57.6	89.6	119522	96.237 ng/ml
Meprobamate	4.978	117039	107427.8	29.8	40.8	55356	107.555 ng/ml
Methadone	5.664	1107921	20825.1	45.8	6594.6	518605	102.236 ng/ml
Methamphetamine	3.309	127488	494.6	256.4	2367.8	135636	100.678 ng/ml
Metoprolol	4.379	207059	16207.7	95.9	23499.9	154830	99.616 ng/ml
Mirtazapine	4.727	1230299	1731.4	47.5	60868.9	518605	116.893 ng/ml
Mitragynine	5.302	115886	114780.7	39.4	4559.0	518605	76.976 ng/ml
Norbuprenorphine	5.050	1095	390.3	95.8	974.4	4814	10.767 ng/ml
Nordiazepam	5.897	105402	9377.6	62.0	6004.3	36603	97.237 ng/ml
Norfentanyl	4.142	123199	1054.6	41.4	525.4	495984	9.662 ng/ml
Norhydrocodone	3.156	25457	138.5	40.4	616.5	42076	80.706 ng/ml
Noroxycodone	3.012	185027	341.7	42.0	949.7	69335	105.741 ng/ml
O-desmethyl-tramadol	3.445	2018205	74534.2	6.5	24801.2	908382	99.845 ng/ml
Oxazepam	5.763	39552	461.9	75.2	278.4	16511	101.557 ng/ml
Oxycodone	2.935	528580	1145.0	28.6	3381.7	235317	106.515 ng/ml
Phentermine	3.853	228076	280.7	4.7	156.9	238631	103.769 ng/ml
Promethazine	5.573	572335	10672.5	31.7	629.1	236100	99.102 ng/ml
Quetiapine	5.611	870387	6956.0	59.5	171936.9	118917	100.672 ng/ml
Sertraline	5.783	118966	126860.6	102.2	44140.8	53288	99.472 ng/ml
Temazepam	5.819	286853	3819.7	31.3	1285.4	135816	97.978 ng/ml
Tramadol	4.303	1944234	94324.5	3.5	421.9	980004	108.102 ng/ml
Trazodone	5.328	703607	30509.0	77.6	36823.3	366259	104.292 ng/ml
Venlafaxine	5.105	1560678	13764.5	39.3	2067.6	783401	94.875 ng/ml
Zolpidem	5.072	1918582	688.4	31.0	37958.9	904859	102.929 ng/ml

AM #28 Multi-Drug Quant. Results

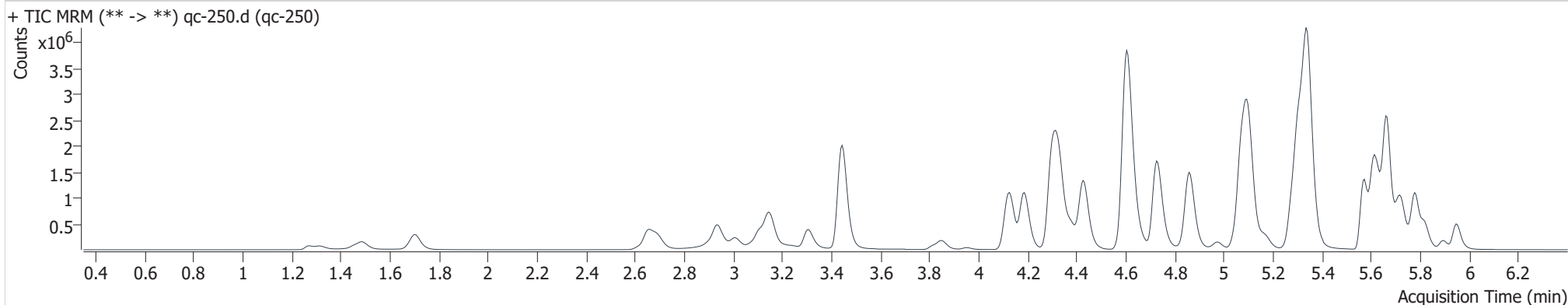
Batch results
Calibration Last Update

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6/12/2019 10:11:58 AM

Instrument 69679
Type QC
Acq. Method mdq p1 cda 121818.m
Sample Position P2-C2
Injection Volume 2
Acq. Date-Time 6/10/2019 7:24:23 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	3.219	36171	95044.5	76.2	71229.9	49822	22.587 ng/ml
7-aminoclonazepam	4.338	339998	25428.9	85.3	14990.5	53042	247.730 ng/ml
a-hydroxyalprazolam	5.704	44399	1670.8	57.9	52763.0	9369	258.268 ng/ml
alpha-PVP	4.433	2139125	57645.9	52.3	1875.4	390584	246.544 ng/ml
Alprazolam	5.777	717717	8046.1	111.6	22674.1	97208	246.608 ng/ml
Amphetamine	3.152	1190578	2128.8	53.1	4821.3	91996	234.964 ng/ml
Benzoylcegonine	3.951	52674	38256.1	7.8	6477.7	7306	247.214 ng/ml
Buprenorphine	5.949	24585	1787.7	16.0	202.7	47085	24.845 ng/ml
Bupropion	4.860	2516139	222092.7	59.1	43065.7	348476	267.720 ng/ml
Carisoprodol	5.728	621704	463334.3	58.6	9096.8	124189	247.463 ng/ml
Citalopram	5.277	1438355	4476.3	47.4	151748.6	255764	257.535 ng/ml
Clonazepam	5.628	104679	44124.6	33.8	696.9	6984	254.639 ng/ml
Cocaine	4.327	1839874	343092.0	42.2	3566.3	672230	245.935 ng/ml
Codeine	2.694	207049	51467.2	104.1	4476.8	38517	249.129 ng/ml
Cyclobenzaprine	5.640	1115428	295029.9	11.0	2185.5	169223	252.276 ng/ml
Dextromethorphan	5.321	823220	267242.7	77.2	279533.5	170903	236.990 ng/ml
Dextrorphan	4.187	802842	1531.1	215.0	130022.3	362256	261.660 ng/ml
Diazepam	5.947	548502	2374.8	85.4	11116.3	100079	268.398 ng/ml

qc-250

Generated at 10:18 AM on 6/12/2019

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.657	619471	1228.9	65.4	48073.1	164244	232.325 ng/ml
Diphenhydramine	5.347	4929466	405138.1	33.1	5314.0	909304	247.897 ng/ml
Doxylamine	4.604	5826268	27324.1	97.9	330324.7	1015682	254.434 ng/ml
EDDP	5.305	1073136	23638.2	233.9	457351.5	518327	247.415 ng/ml
Fentanyl	5.173	170071	299840.3	75.2	198292.4	350055	23.799 ng/ml
Fluoxetine	5.710	1064966	551489.3	8.8	1889.7	169859	237.622 ng/ml
Hydrocodone	3.109	638264	9005.4	39.7	2407.0	161010	267.511 ng/ml
Hydromorphone	1.703	507631	12086.1	73.9	3532.8	75431	246.749 ng/ml
Ketamine	4.127	1633738	211706.5	38.1	5229.3	337439	249.817 ng/ml
Lamotrigine	4.380	155787	3507.0	86.6	13103.6	362256	214.879 ng/ml
Lorazepam	5.750	68847	1255.8	59.0	521.6	97208	235.194 ng/ml
Meprobamate	4.978	257922	400.0	30.3	276.4	52824	249.152 ng/ml
Methadone	5.664	3397282	47157.4	44.8	46732.5	627889	258.228 ng/ml
Methamphetamine	3.309	224709	972.2	262.6	3088.2	104884	232.331 ng/ml
Metoprolol	4.379	390353	45329.8	95.8	32424.2	124189	236.086 ng/ml
Mirtazapine	4.727	3301425	149483.2	47.3	3411.7	627889	259.556 ng/ml
Mitragynine	5.302	287300	220815.8	40.0	121853.6	627889	157.506 ng/ml OCR A
Norbuprenorphine	5.050	2859	3639.0	103.5	1447.9	5342	25.812 ng/ml
Nordiazepam	5.897	214400	120091.2	60.7	9061.5	30614	236.922 ng/ml
Norfentanyl	4.142	261736	2296.6	40.6	11487.4	419560	24.210 ng/ml
Norhydrocodone	3.156	67589	165.4	41.6	3723.2	38918	218.721 ng/ml
Noroxycodone	3.007	409051	3238.7	41.0	3304.9	63413	257.012 ng/ml
O-desmethyl-tramadol	3.445	4505091	335300.4	6.4	1563.0	804638	251.242 ng/ml
Oxazepam	5.758	72312	1632.3	73.2	953.3	12138	253.552 ng/ml
Oxycodone	2.935	1200308	1710.7	29.0	3711.4	221633	257.283 ng/ml
Phentermine	3.853	432206	135.1	4.5	215.2	199738	236.096 ng/ml
Promethazine	5.573	2174602	19261.3	31.9	14523.4	371493	238.768 ng/ml
Quetiapine	5.611	2354342	1897590.3	56.9	1525421.7	125607	257.936 ng/ml
Sertraline	5.782	399273	5955.8	102.4	452594.1	74462	238.828 ng/ml
Temazepam	5.819	618503	6070.1	31.6	1556.4	118185	242.881 ng/ml
Tramadol	4.298	4140149	393286.3	3.5	7435.9	862323	263.176 ng/ml
Trazodone	5.328	1441592	187957.9	76.8	28396.1	404259	194.817 ng/ml OCR A
Venlafaxine	5.105	3373202	3296.5	39.1	29788.7	664381	240.140 ng/ml
Zolpidem	5.072	4205851	286716.8	30.8	434982.5	854471	239.598 ng/ml

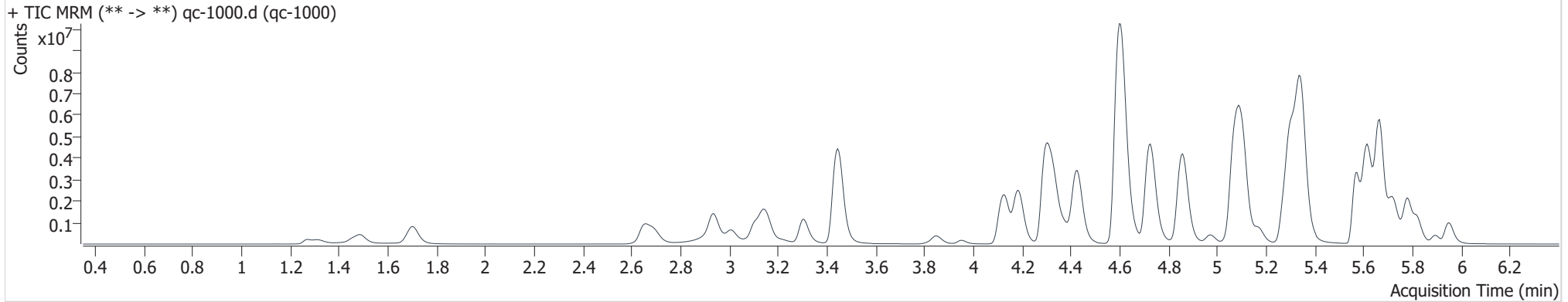
ocr = outside curve range

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Calibration Last Update 6/12/2019 10:11:58 AM

Instrument	69679	Data File	qc-1000.d
Type	QC	Sample	qc-1000
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-D2	Comment	
Injection Volume	2		
Acq. Date-Time	6/10/2019 7:35:11 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.219	130673	237354.5	74.7	258767.6	42820	94.834 ng/ml
7-aminoclonazepam	4.338	557011	42382.2	85.8	63358.7	18109	1187.106 ng/ml
a-hydroxyalprazolam	5.704	132928	3189.7	58.0	5346.4	7108	1021.193 ng/ml
alpha-PVP	4.428	6541437	36775.1	51.6	3208.7	296320	994.354 ng/ml
Alprazolam	5.777	1757811	9018.6	110.1	2897.6	58810	997.761 ng/ml
Amphetamine	3.147	2818837	4829.5	53.0	9871.2	71970	714.659 ng/ml
Benzoylcegonine	3.951	254965	464136.9	7.8	2335.6	7301	1197.796 ng/ml
Buprenorphine	5.949	61216	7980.3	16.0	5455.3	34656	84.324 ng/ml
Bupropion	4.860	8183782	915260.5	57.8	522350.4	320285	948.410 ng/ml
Carisoprodol	5.733	1456320	6727.3	58.3	16747.6	70864	1015.601 ng/ml
Citalopram	5.272	3290855	90395.2	46.6	1436.9	152324	990.951 ng/ml
Clonazepam	5.628	208302	5937.9	32.7	661.2	3343	1059.514 ng/ml
Cocaine	4.322	4470493	2426.9	41.6	3630.1	400039	1004.546 ng/ml
Codeine	2.694	546277	87159.4	105.4	2171.6	24650	1026.365 ng/ml
Cyclobenzaprine	5.635	2403882	1739.1	10.9	8588.5	92131	998.870 ng/ml
Dextromethorphan	5.321	1439582	86685.4	77.1	8520.3	74922	945.422 ng/ml
Dextrorphan	4.187	2178148	1504.6	215.8	18072.5	242574	1059.797 ng/ml
Diazepam	5.952	1292692	14629.0	85.4	11725.3	62056	1022.534 ng/ml

ocr

qc-1000

ocr = outside curve range

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.652	1665871	159814.6	64.9	1206.4	152052	676.568 ng/ml	ocr
Diphenhydramine	5.347	11117748	25091.0	33.0	23566.1	490756	1032.530 ng/ml	
Doxylamine	4.603	17624839	4612.3	97.7	55674.0	867513	901.304 ng/ml	
EDDP	5.306	3174338	201386.2	247.0	577023.9	385103	985.577 ng/ml	
Fentanyl	5.174	729188	49676.4	76.1	517.8	371379	96.145 ng/ml	
Fluoxetine	5.710	2328897	650677.3	8.5	8343.5	93510	945.313 ng/ml	
Hydrocodone	3.109	2060722	∞	38.9	927.4	142140	982.864 ng/ml	
Hydromorphone	1.703	1634400	576586.1	74.2	61540.5	63467	943.038 ng/ml	
Ketamine	4.126	4423072	460788.2	37.4	1267.7	269184	849.591 ng/ml	
Lamotrigine	4.380	287591	6122.5	84.8	2732.5	242574	592.009 ng/ml	ocr
Lorazepam	5.750	190979	2340.8	56.2	449.8	58810	1075.283 ng/ml	
Meprobamate	4.973	828126	1270946.8	29.7	25809.6	47428	892.497 ng/ml	
Methadone	5.664	9164377	37645.8	45.9	249335.6	416877	1047.775 ng/ml	
Methamphetamine	3.304	700908	1663.8	260.2	1712.8	85370	896.638 ng/ml	
Metoprolol	4.374	810345	833822.3	96.0	201101.7	70864	862.715 ng/ml	
Mirtazapine	4.727	9779520	650331.8	47.0	326182.3	416877	1159.395 ng/ml	
Mitragynine	5.296	513361	445177.3	41.4	340.8	416877	423.711 ng/ml	ocr
Norbuprenorphine	5.045	7574	1068.5	94.9	2714.4	4017	91.844 ng/ml	
Nordiazepam	5.897	537975	915791.0	62.1	201025.6	20132	904.858 ng/ml	
Norfentanyl	4.147	640143	44010.2	40.2	6075.4	254259	97.596 ng/ml	
Norhydrocodone	3.156	210728	12164.3	41.8	5336.8	28553	ok 906.994 ng/ml	ocr
Noroxycodone	3.007	1267497	1557.5	41.6	694.9	51354	986.207 ng/ml	
O-desmethyl-tramadol	3.445	12531685	2183.8	6.2	107445.6	559434	1004.462 ng/ml	
Oxazepam	5.758	189579	4996.9	73.5	1402.0	8575	942.807 ng/ml	
Oxycodone	2.934	4077130	1170.8	28.8	4250.6	201549	961.928 ng/ml	
Phentermine	3.853	1087221	450.9	4.3	1617.6	159318	746.561 ng/ml	ocr
Promethazine	5.568	6136588	4120769.1	31.1	14755.4	252104	991.666 ng/ml	
Quetiapine	5.611	6286296	9158.8	56.9	3167551.1	91325	947.461 ng/ml	
Sertraline	5.783	683355	440910.8	100.8	84932.5	29722	1023.865 ng/ml	
Temazepam	5.819	1774721	125593.8	30.7	3702.3	84092	979.695 ng/ml	
Tramadol	4.293	10521650	757264.6	3.3	12680.9	661589	874.304 ng/ml	
Trazodone	5.328	2374784	115897.1	77.4	495600.0	380026	342.469 ng/ml	ocr
Venlafaxine	5.105	8464219	312598.8	37.9	1602.6	391530	1019.010 ng/ml	
Zolpidem	5.072	11473933	182069.9	30.5	293755.9	741133	754.663 ng/ml	ocr

ocr = outside curve range

AM #28 Multi-Drug Quant. Results

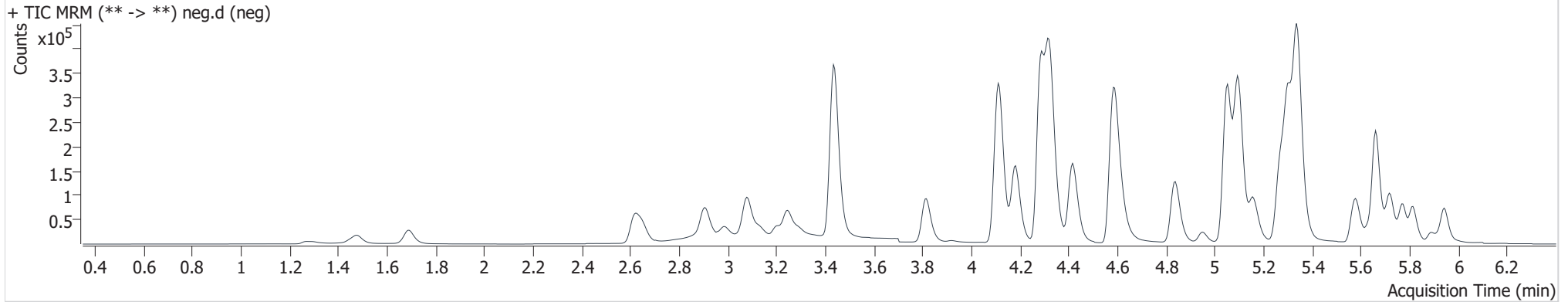
Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Calibration Last Update 6/12/2019 10:11:58 AM

Instrument 69679
Type Sample
Acq. Method mdq p1 cda 121818.m
Sample Position P2-E2
Injection Volume 2
Acq. Date-Time 6/10/2019 8:07:23 PM
Sample Info.

Data File neg.d
Sample neg
Operator Anne Nord
Comment

negative blood sample

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Buprenorphine	6.173 High	548	11.6	0.5 Low	2.4 Low	41242	0.521 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

Calibration Last Update

6/12/2019 10:11:58 AM

Instrument

69679

Type

Sample

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-F2

Injection Volume

2

Acq. Date-Time

6/10/2019 8:18:13 PM

Sample Info.**Data File**

external control.d

Sample

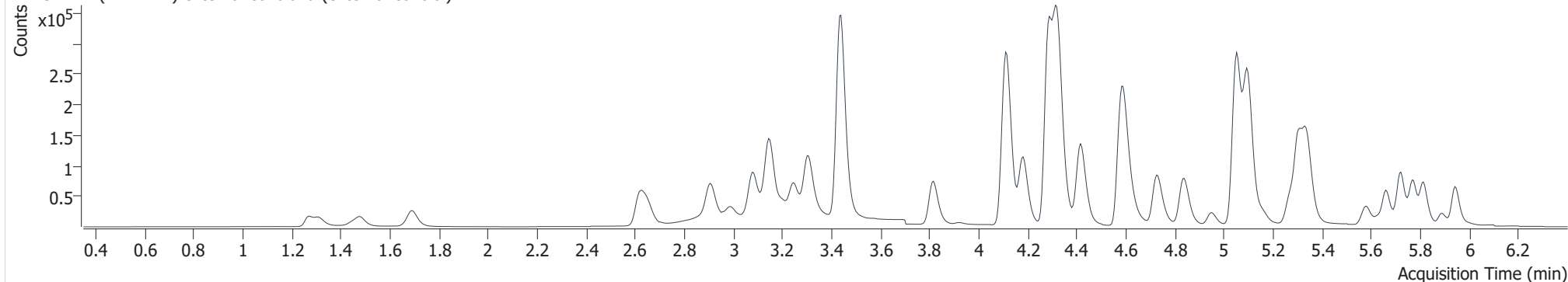
external control

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	3.152	222062	1312.8	53.0	320.8	81625	48.007 ng/ml
Buprenorphine	5.949	846	66.4	17.6	116.1	10622	3.693 ng/ml
Dextromethorphan	5.321	36942	10337.1	77.3	34023.6	42654	42.590 ng/ml
Methamphetamine	3.309	69290	119.7	285.1	179.2	152289	47.586 ng/ml
Mirtazapine	4.727	160470	88846.9	47.5	6208.9	119656	65.910 ng/ml

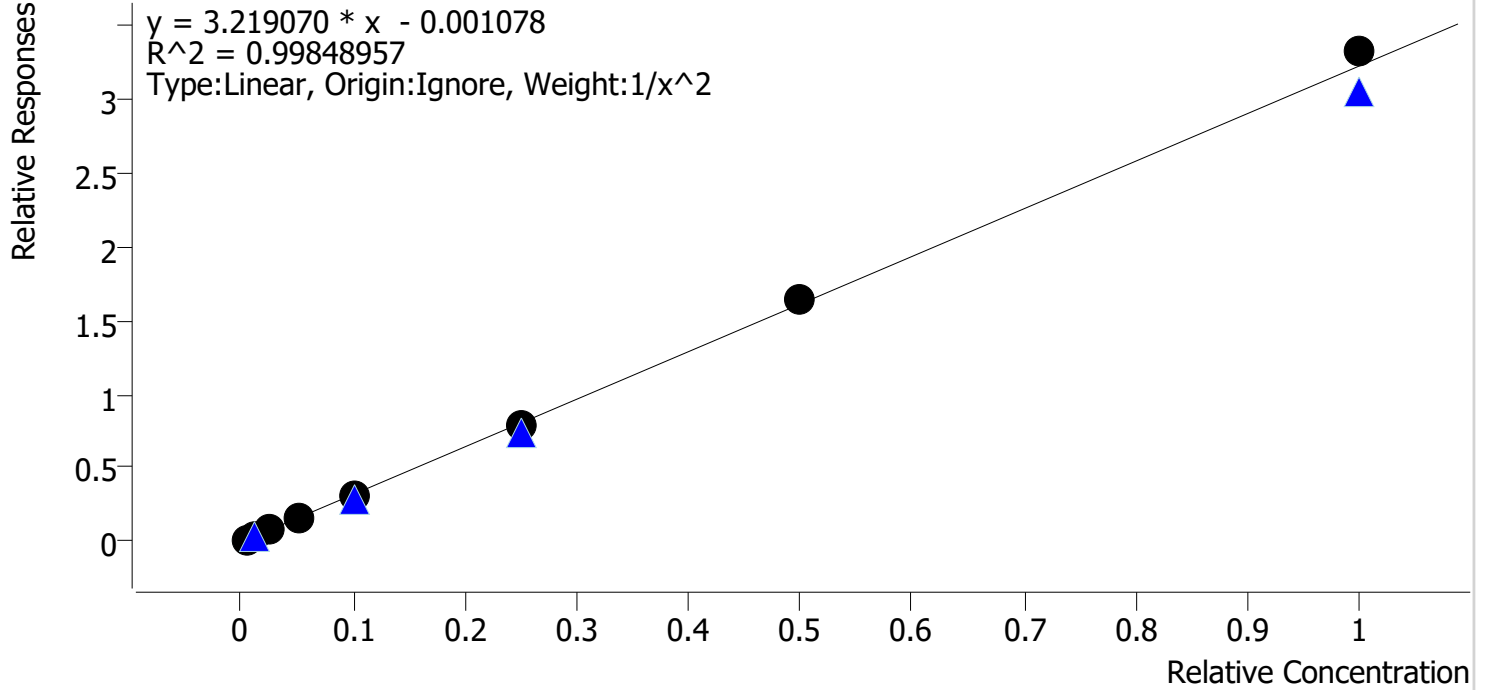
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte 6-MAM

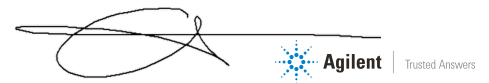
Internal Standard 6-MAM-D6

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



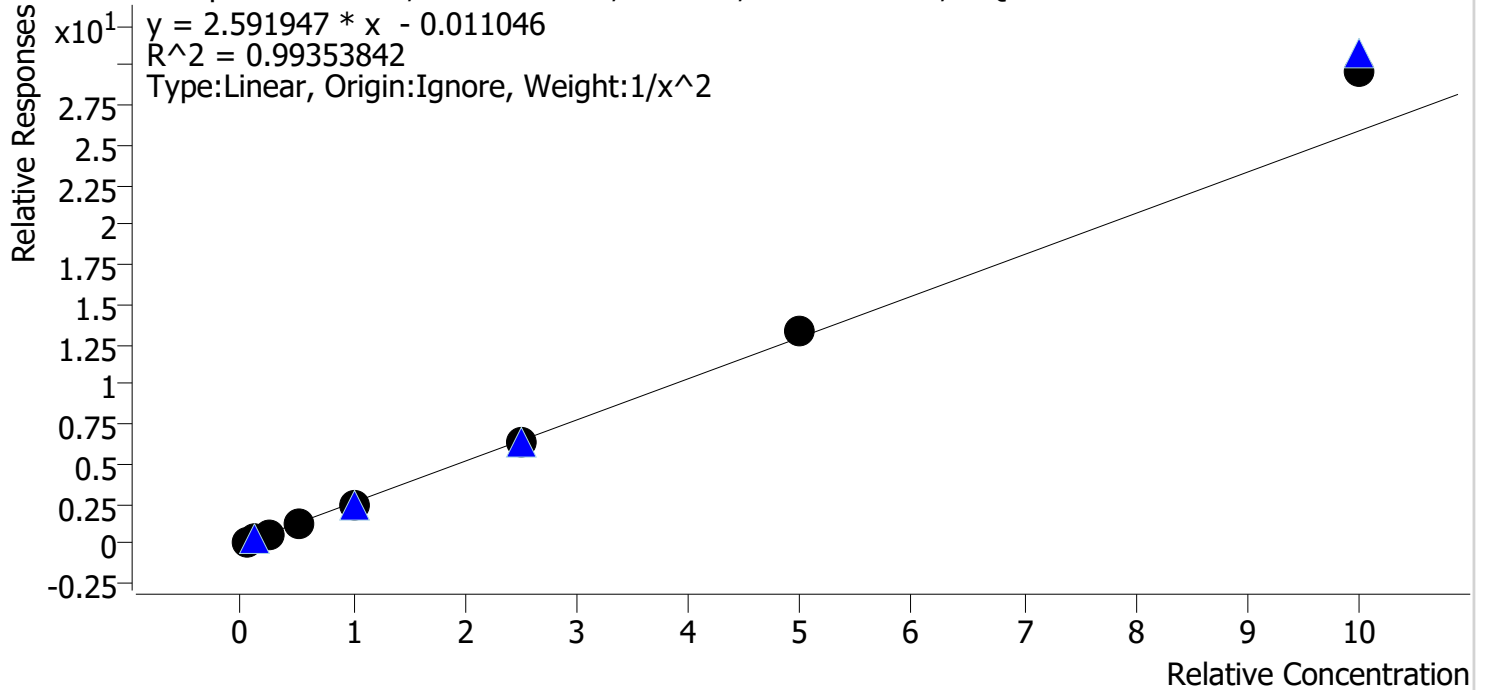
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	97.9
cal 2	2	✓	1.0	1.1	106.0
cal 3	3	✓	2.5	2.4	98.0
cal 4	4	✓	5.0	4.8	96.1
cal 5	5	✓	10.0	9.8	98.2
cal 6	6	✓	25.0	24.6	98.5
cal 7	7	✓	50.0	51.2	102.3
cal 8	8	✓	100.0	103.0	103.0

Compound Calibration Report



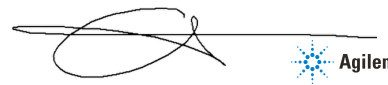
Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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

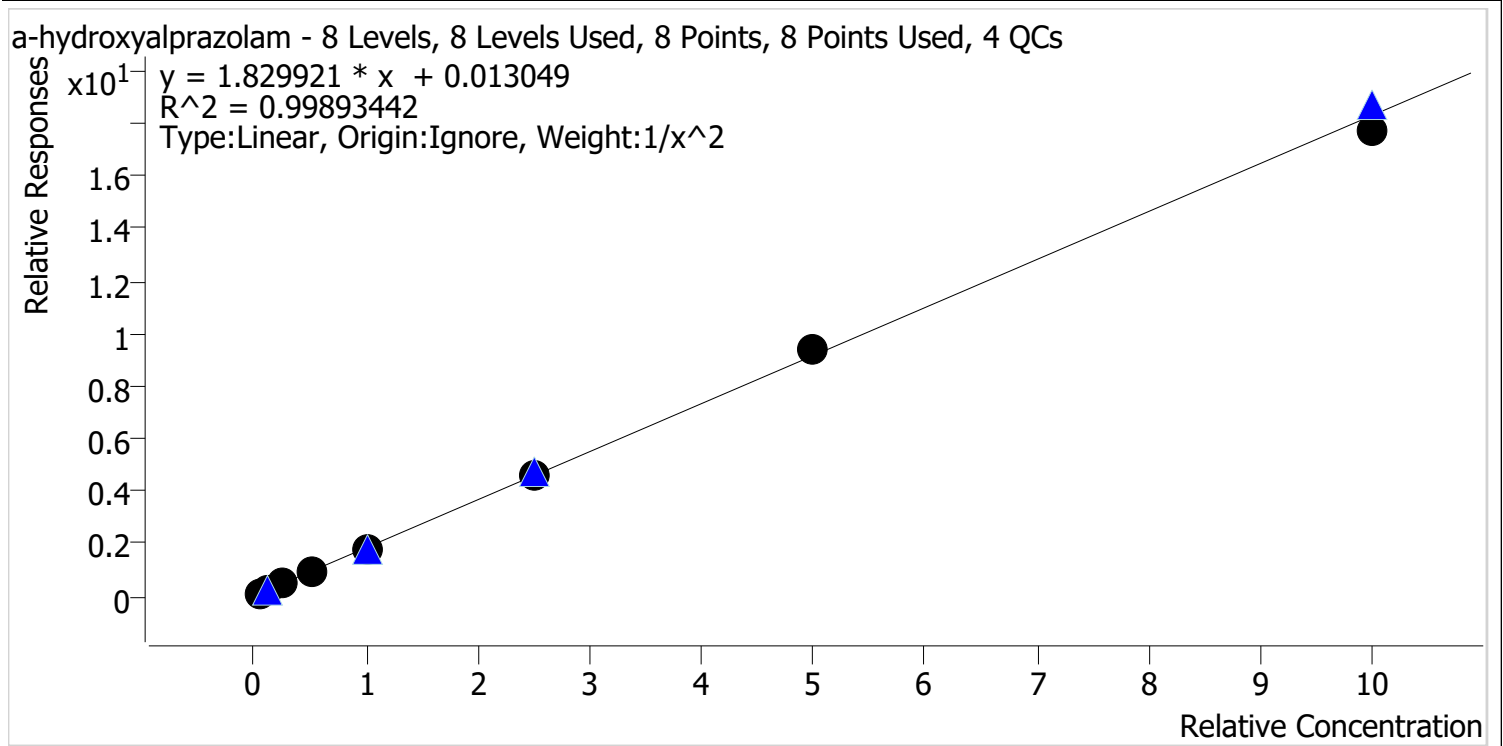


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.4
cal 2	2	✓	10.0	9.9	98.9
cal 3	3	✓	25.0	23.7	94.9
cal 4	4	✓	50.0	46.7	93.5
cal 5	5	✓	100.0	93.9	93.9
cal 6	6	✓	250.0	245.2	98.1
cal 7	7	✓	500.0	518.5	103.7
cal 8	8	✓	1000.0	1145.7	114.6

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



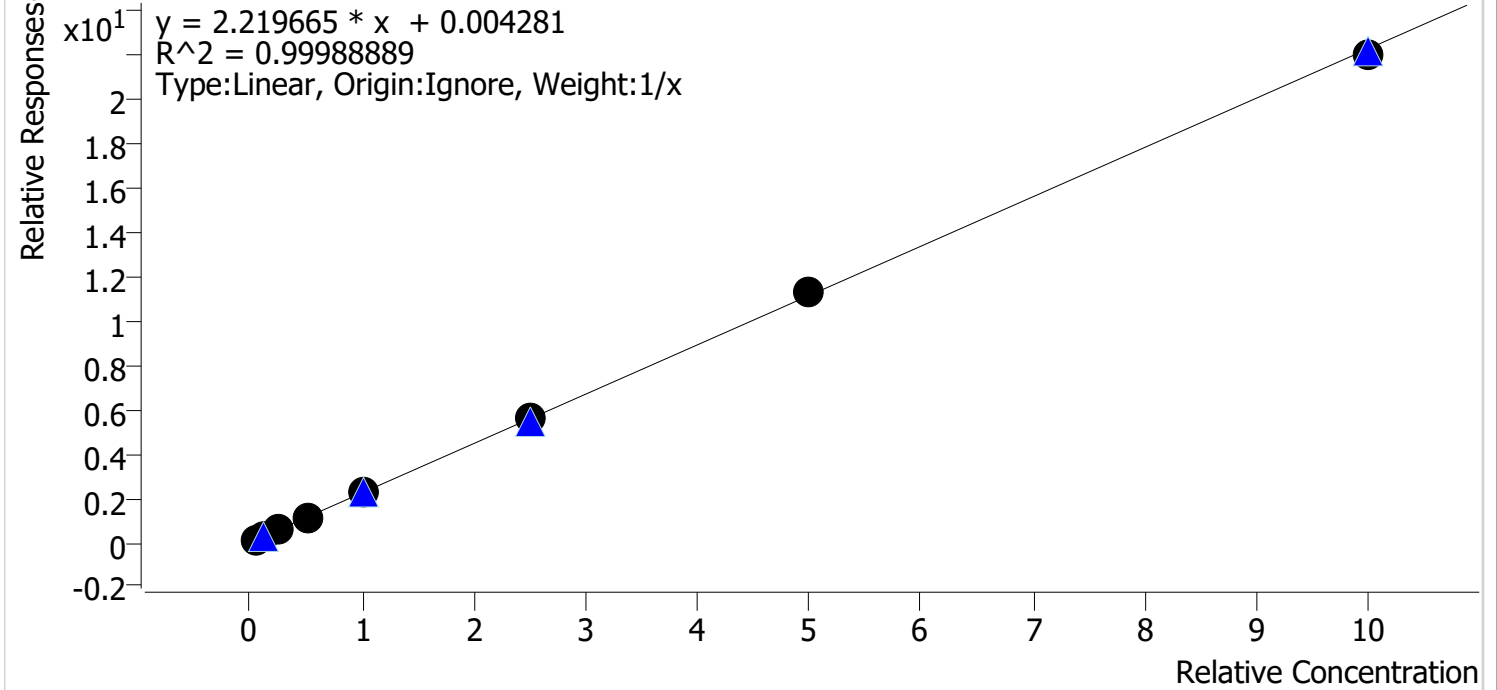
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.4
cal 2	2	✓	10.0	10.5	105.2
cal 3	3	✓	25.0	25.3	101.3
cal 4	4	✓	50.0	49.2	98.3
cal 5	5	✓	100.0	97.8	97.8
cal 6	6	✓	250.0	252.7	101.1
cal 7	7	✓	500.0	509.4	101.9
cal 8	8	✓	1000.0	971.0	97.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.9	97.6
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	24.9	99.5
cal 4	4	✓	50.0	49.5	99.0
cal 5	5	✓	100.0	101.6	101.6
cal 6	6	✓	250.0	252.0	100.8
cal 7	7	✓	500.0	505.8	101.2
cal 8	8	✓	1000.0	991.2	99.1

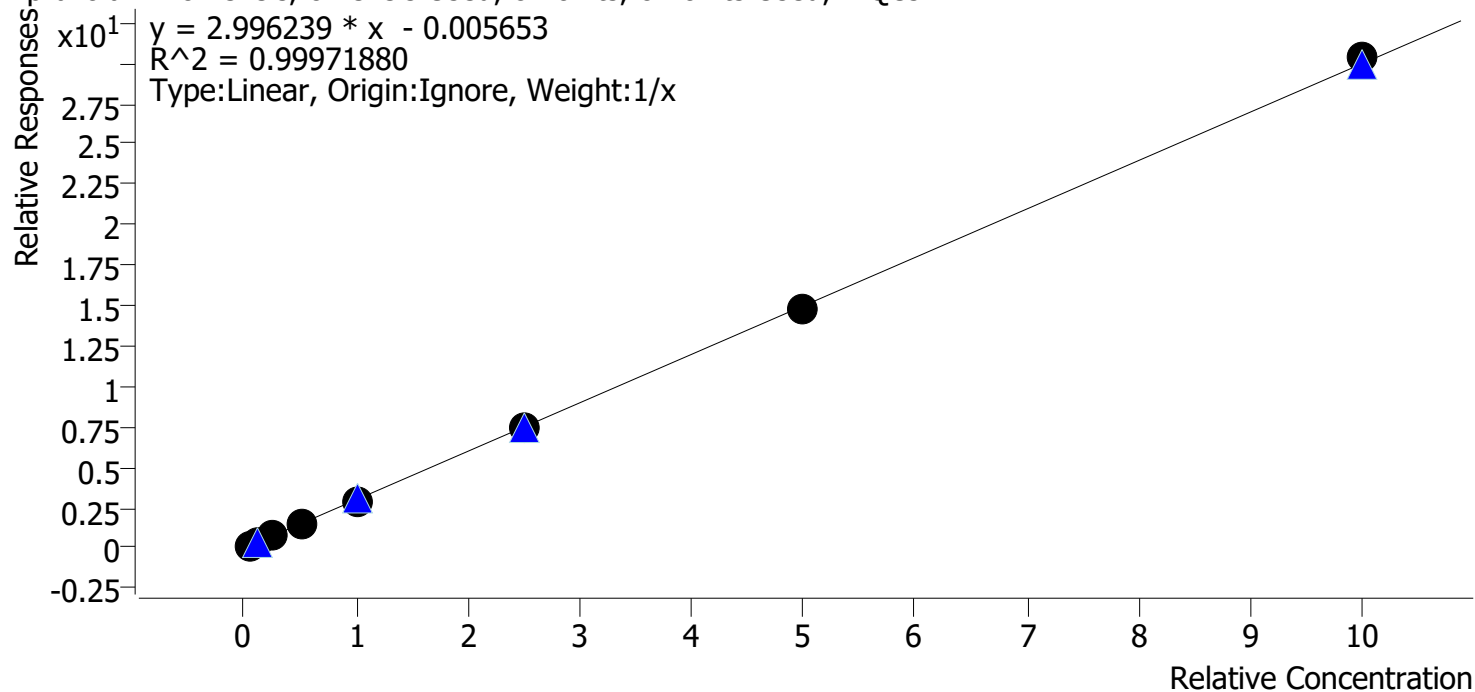
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28_061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Alprazolam

Internal Standard Alprazolam-D5

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

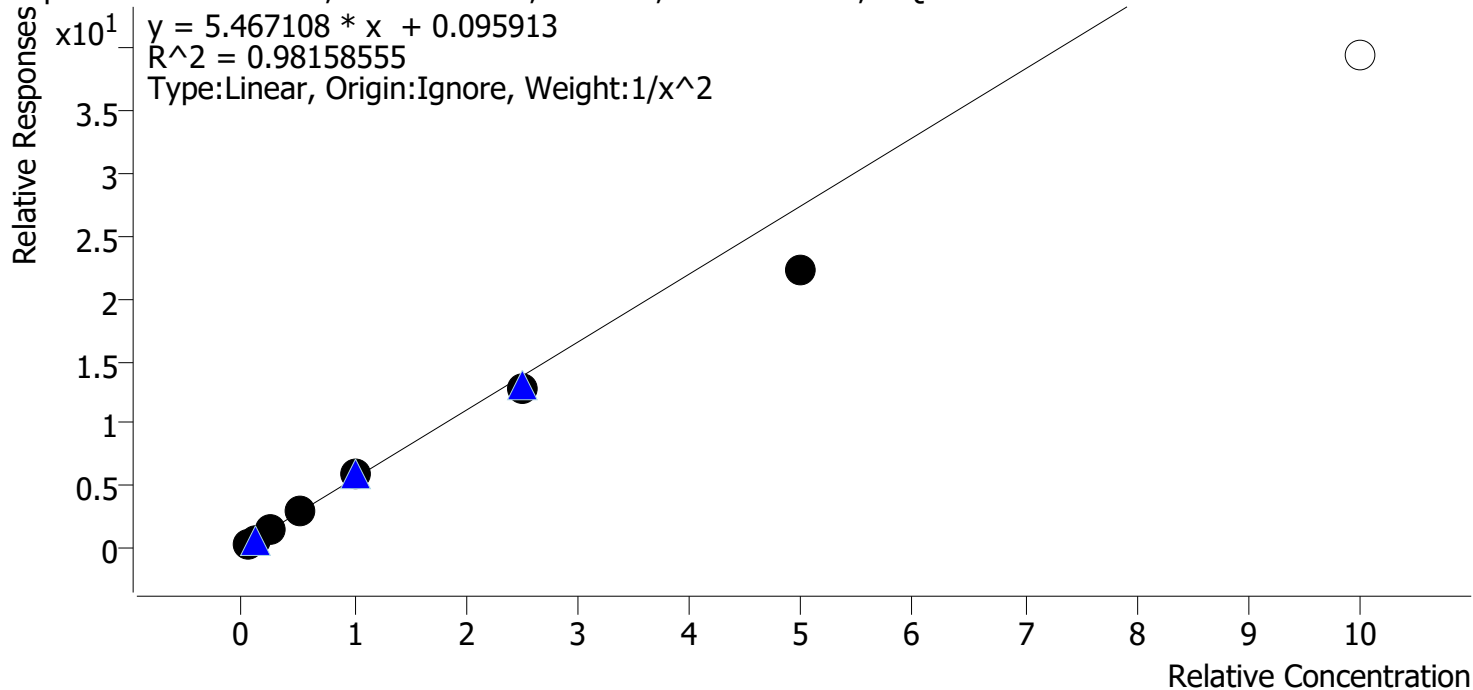


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.3
cal 2	2	✓	10.0	10.9	108.7
cal 3	3	✓	25.0	24.3	97.1
cal 4	4	✓	50.0	47.9	95.8
cal 5	5	✓	100.0	98.8	98.8
cal 6	6	✓	250.0	244.8	97.9
cal 7	7	✓	500.0	495.8	99.2
cal 8	8	✓	1000.0	1012.5	101.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

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

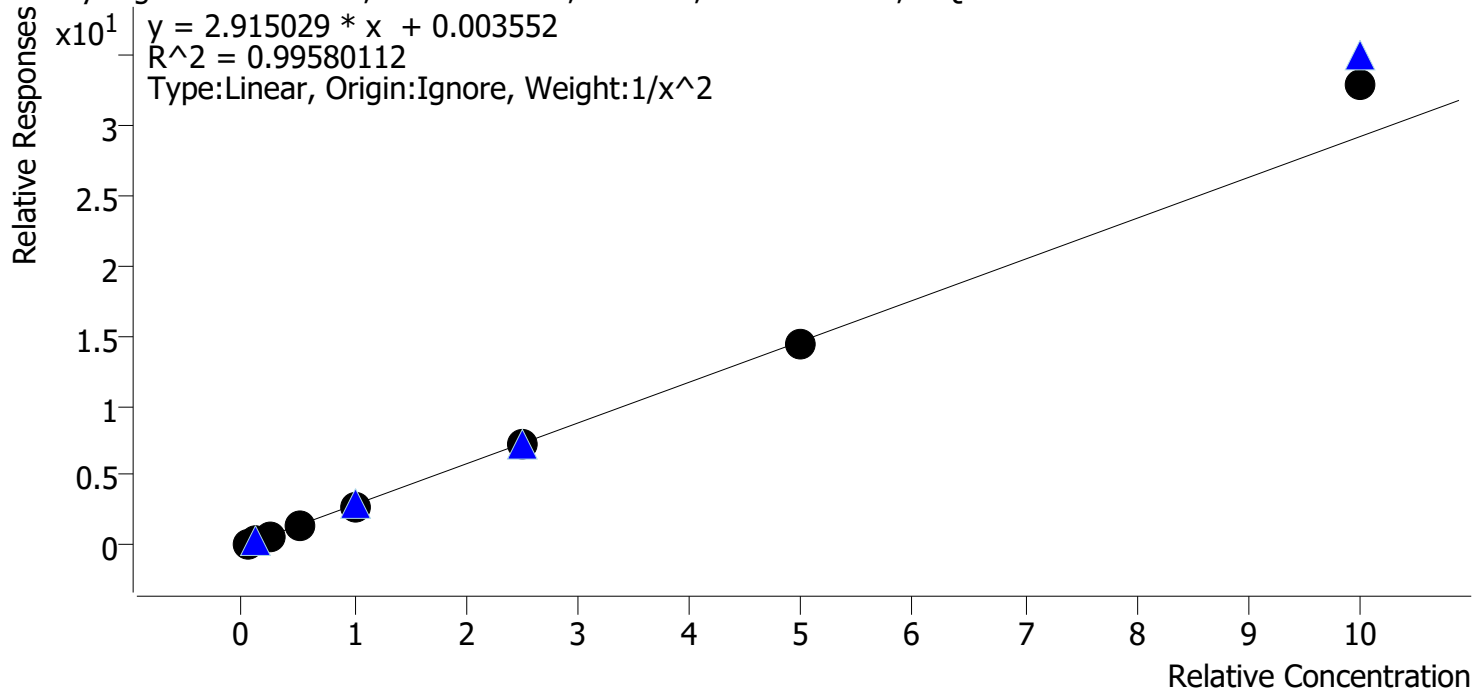


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.6	92.2
cal 2	2	✓	10.0	11.0	109.8
cal 3	3	✓	25.0	27.7	110.6
cal 4	4	✓	50.0	54.7	109.3
cal 5	5	✓	100.0	104.8	104.8
cal 6	6	✓	250.0	231.3	92.5
cal 7	7	✓	500.0	404.0	80.8
cal 8	8	✗	1000.0	719.9	72.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.7
cal 2	2	✓	10.0	9.7	96.9
cal 3	3	✓	25.0	24.3	97.0
cal 4	4	✓	50.0	47.7	95.5
cal 5	5	✓	100.0	96.1	96.1
cal 6	6	✓	250.0	249.9	100.0
cal 7	7	✓	500.0	495.9	99.2
cal 8	8	✓	1000.0	1126.4	112.6

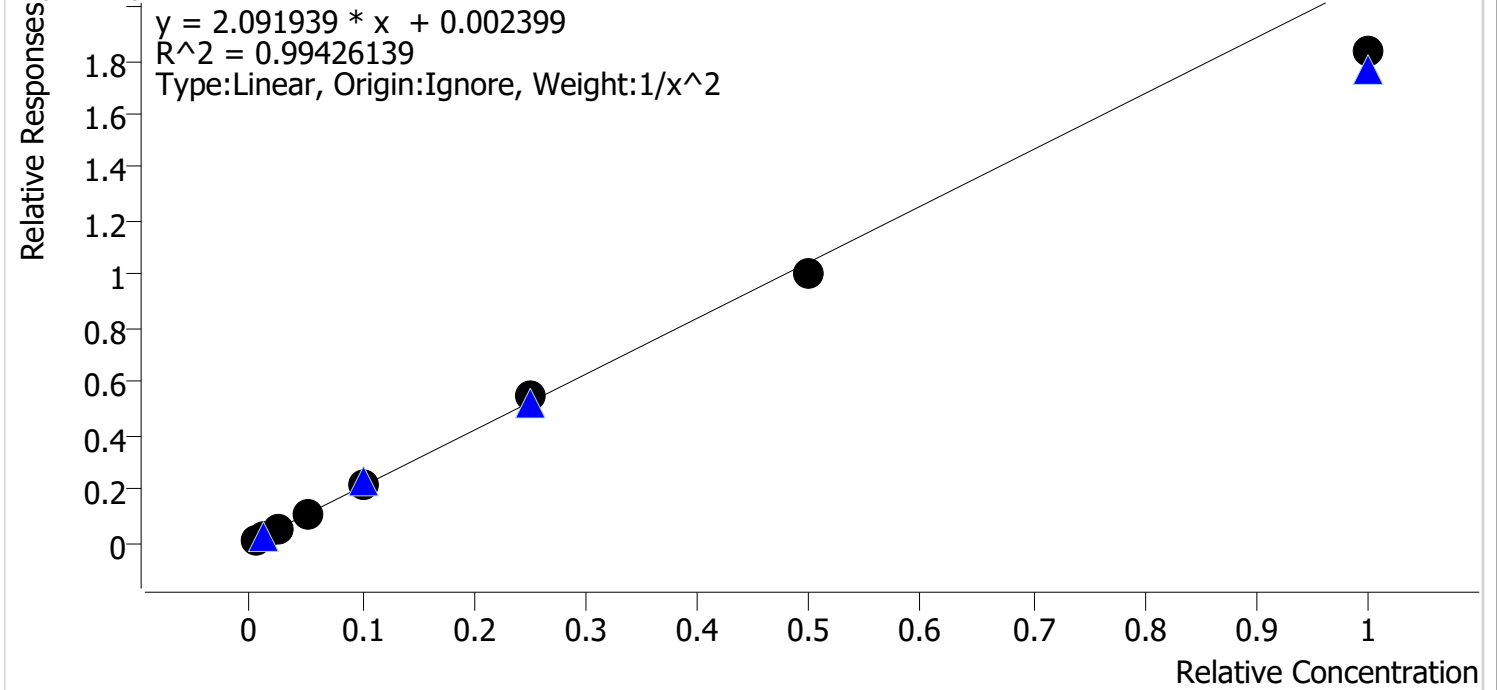
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Buprenorphine

Internal Standard Buprenorphine-D4

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



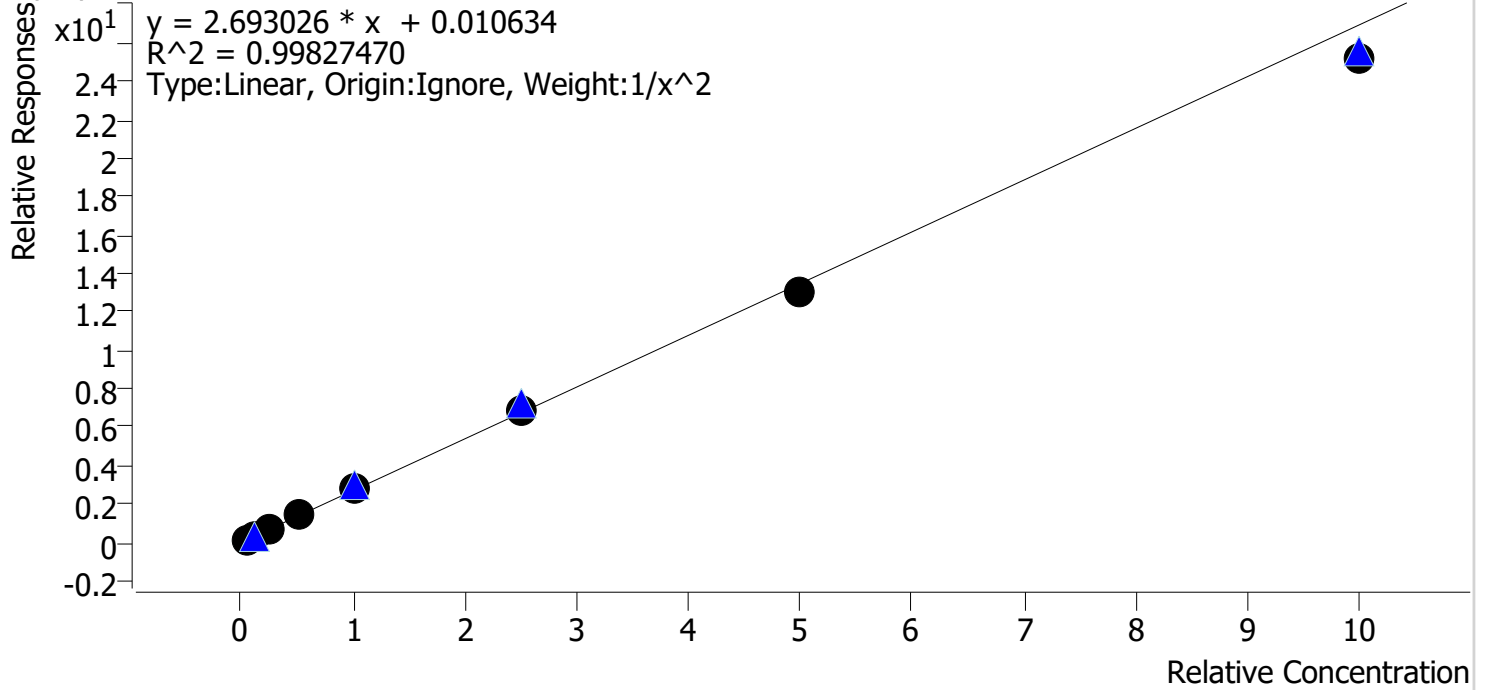
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	99.9
cal 2	2	✓	1.0	1.0	96.0
cal 3	3	✓	2.5	2.7	107.1
cal 4	4	✓	5.0	5.2	104.5
cal 5	5	✓	10.0	10.5	105.5
cal 6	6	✓	25.0	25.9	103.7
cal 7	7	✓	50.0	47.9	95.8
cal 8	8	✓	100.0	87.5	87.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Bupropion

Internal Standard Bupropion-D9

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



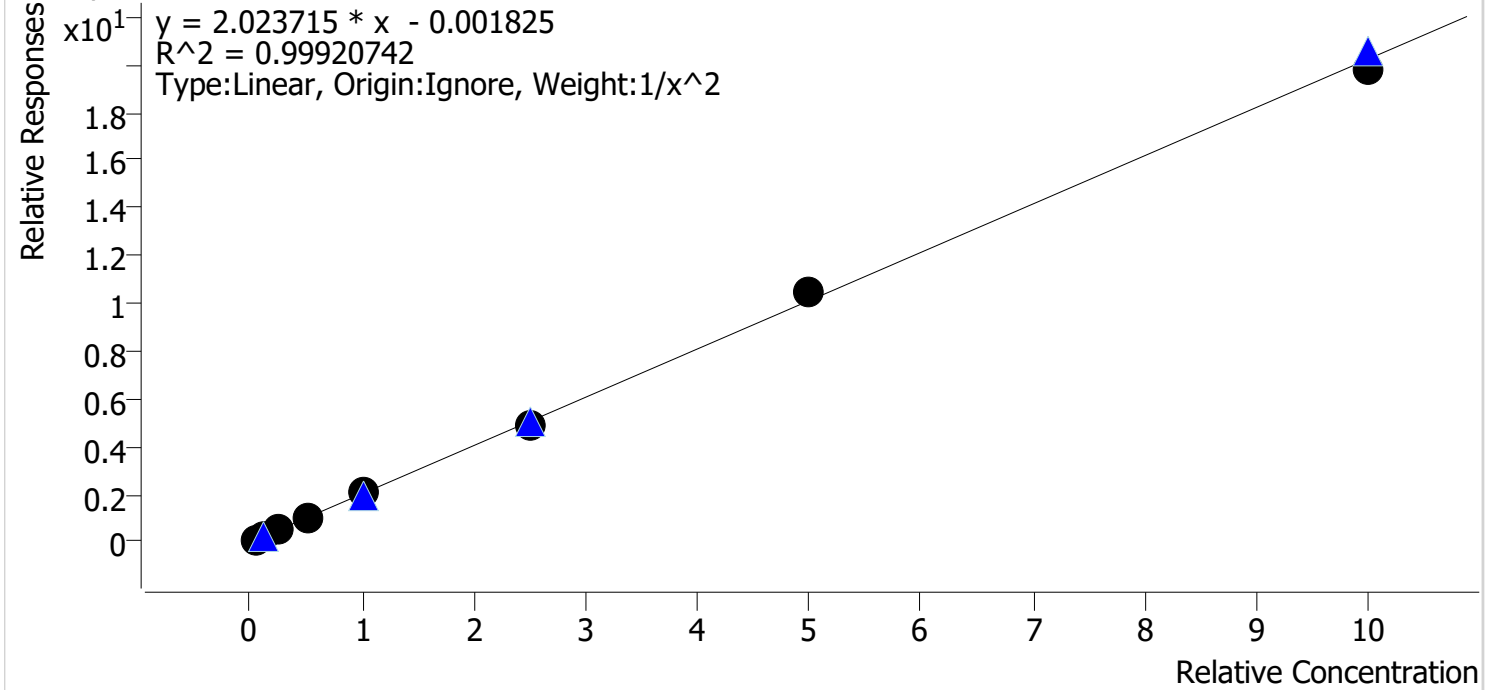
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.4
cal 2	2	✓	10.0	10.3	103.4
cal 3	3	✓	25.0	25.7	103.0
cal 4	4	✓	50.0	51.2	102.4
cal 5	5	✓	100.0	102.4	102.4
cal 6	6	✓	250.0	252.1	100.8
cal 7	7	✓	500.0	486.7	97.3
cal 8	8	✓	1000.0	933.1	93.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	98.8
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	49.2	98.4
cal 5	5	✓	100.0	101.1	101.1
cal 6	6	✓	250.0	243.2	97.3
cal 7	7	✓	500.0	520.7	104.1
cal 8	8	✓	1000.0	977.9	97.8

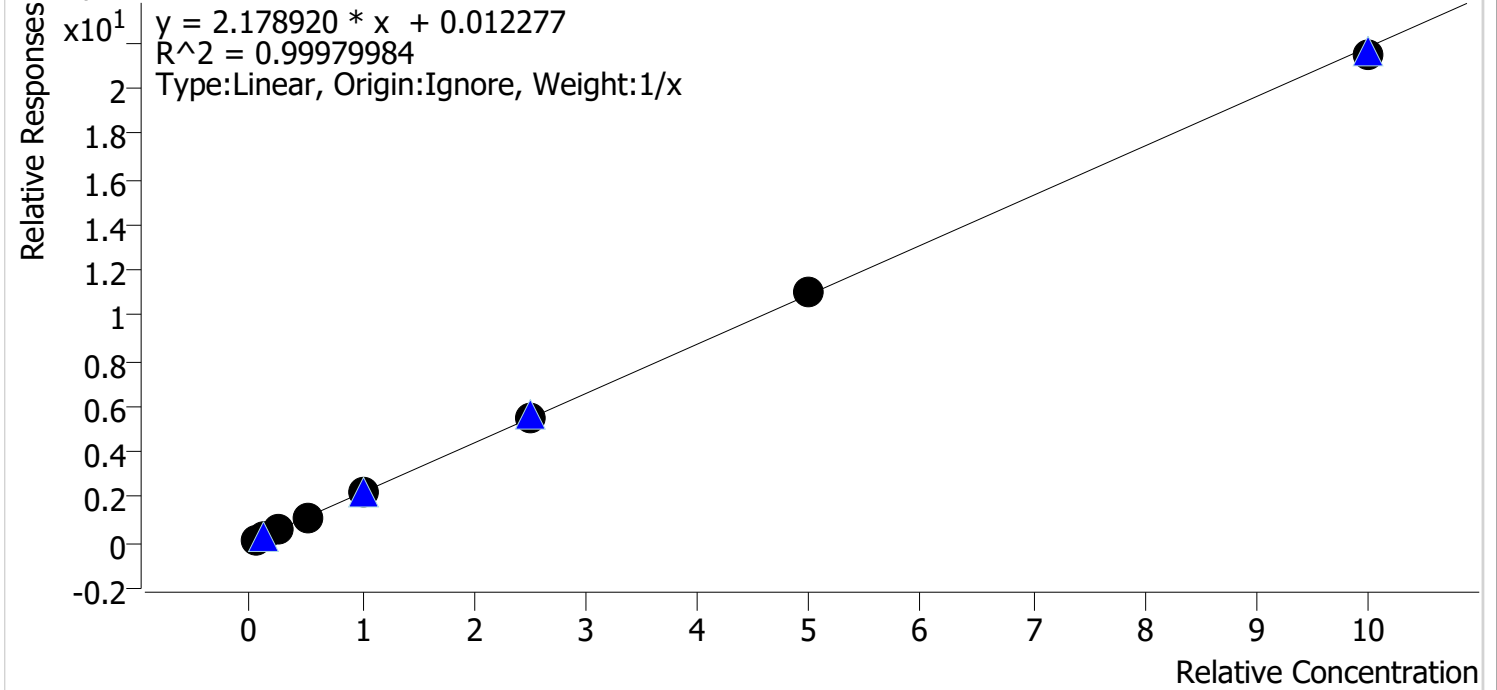
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.7	93.2
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	51.1	102.2
cal 5	5	✓	100.0	102.6	102.6
cal 6	6	✓	250.0	253.8	101.5
cal 7	7	✓	500.0	504.5	100.9
cal 8	8	✓	1000.0	988.2	98.8

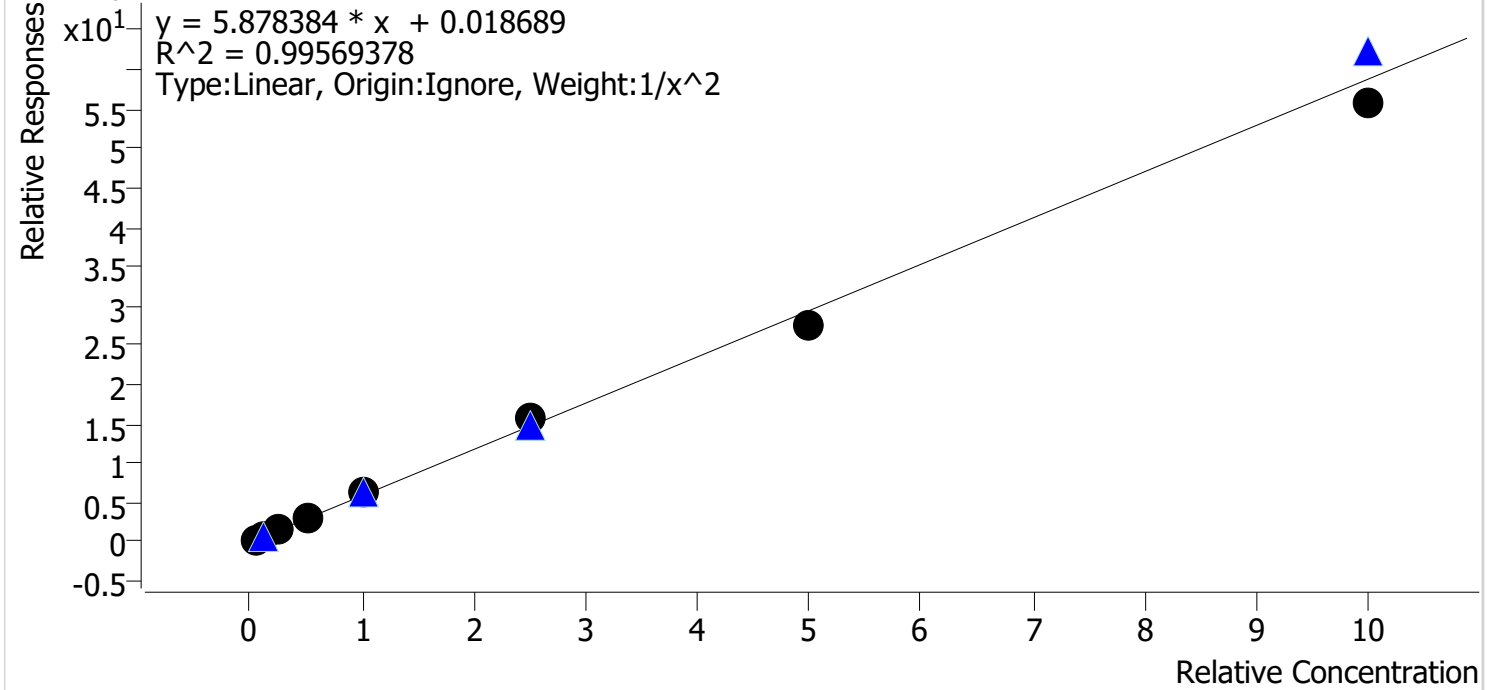
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.9	97.1
cal 2	2	✓	10.0	10.7	107.0
cal 3	3	✓	25.0	24.1	96.3
cal 4	4	✓	50.0	49.1	98.2
cal 5	5	✓	100.0	103.9	103.9
cal 6	6	✓	250.0	271.7	108.7
cal 7	7	✓	500.0	469.9	94.0
cal 8	8	✓	1000.0	948.1	94.8

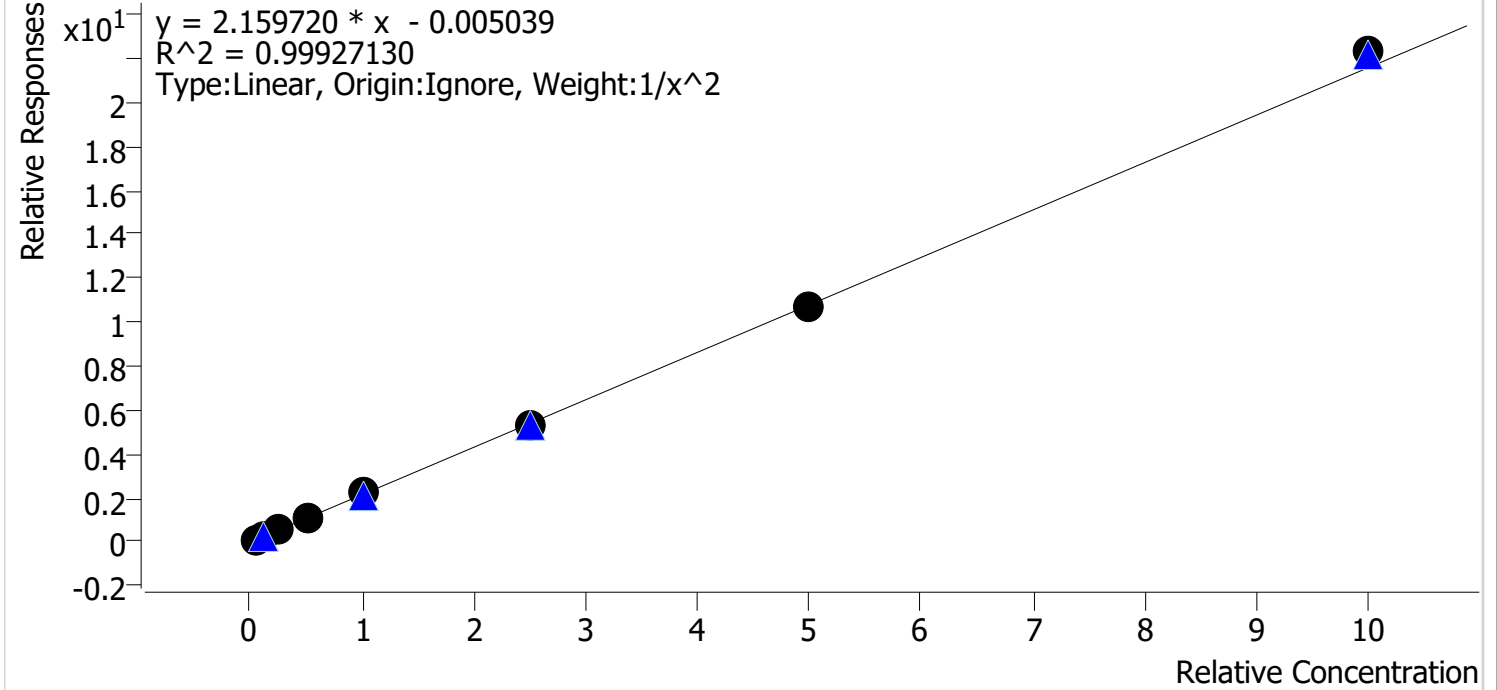
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Codeine

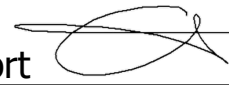
Internal Standard Codeine-D6

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



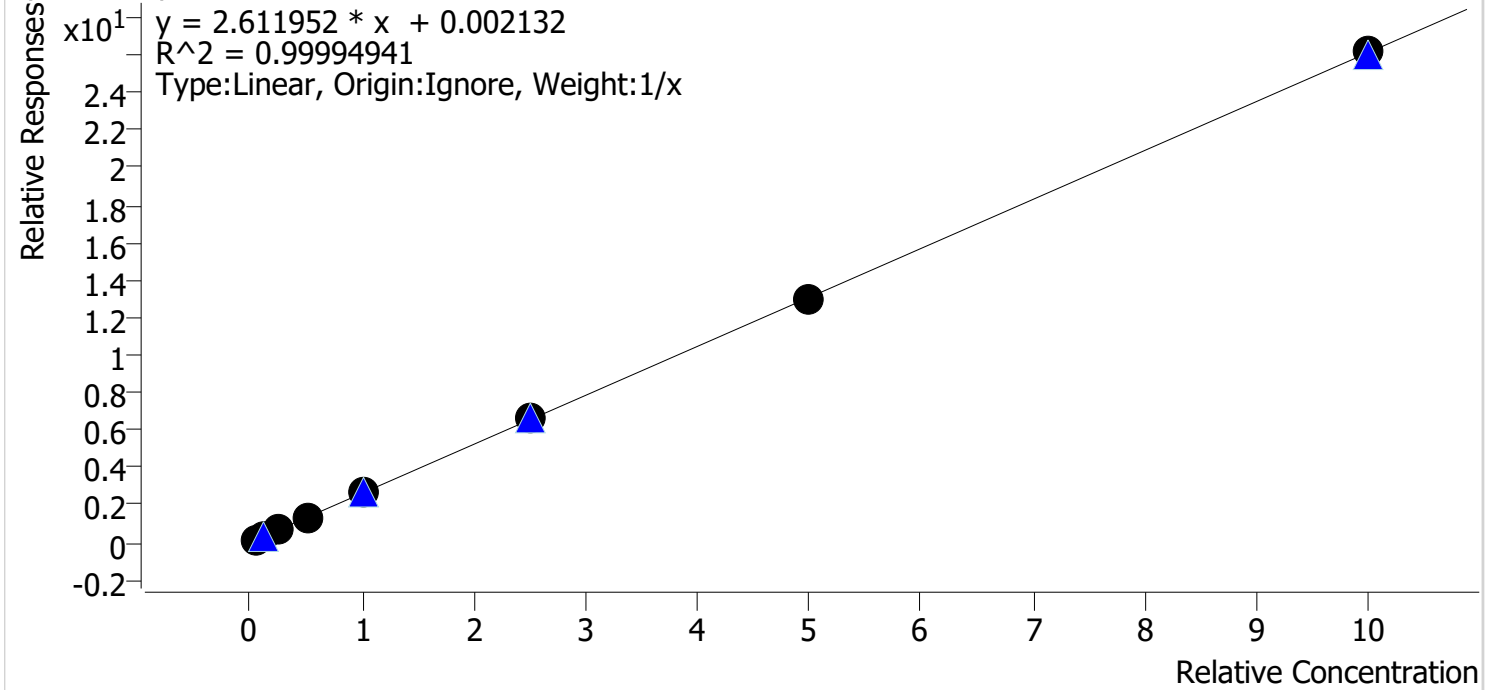
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.1
cal 2	2	✓	10.0	10.3	103.0
cal 3	3	✓	25.0	24.4	97.4
cal 4	4	✓	50.0	49.3	98.5
cal 5	5	✓	100.0	101.4	101.4
cal 6	6	✓	250.0	244.1	97.6
cal 7	7	✓	500.0	497.2	99.4
cal 8	8	✓	1000.0	1033.9	103.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	5.0	99.7
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	24.9	99.7
cal 4	4	✓	50.0	49.9	99.8
cal 5	5	✓	100.0	100.5	100.5
cal 6	6	✓	250.0	252.7	101.1
cal 7	7	✓	500.0	494.9	99.0
cal 8	8	✓	1000.0	1002.1	100.2

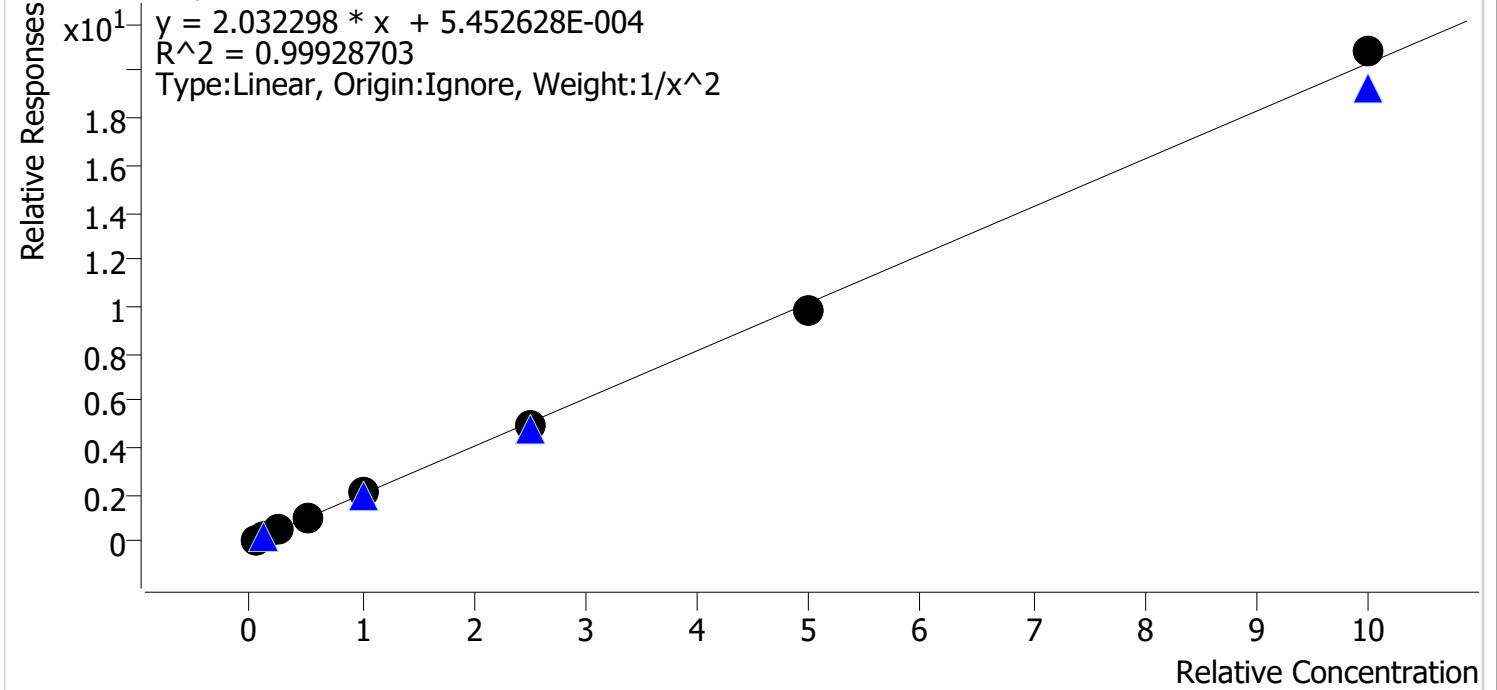
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan

Internal Standard Dextromethorphan-D3

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



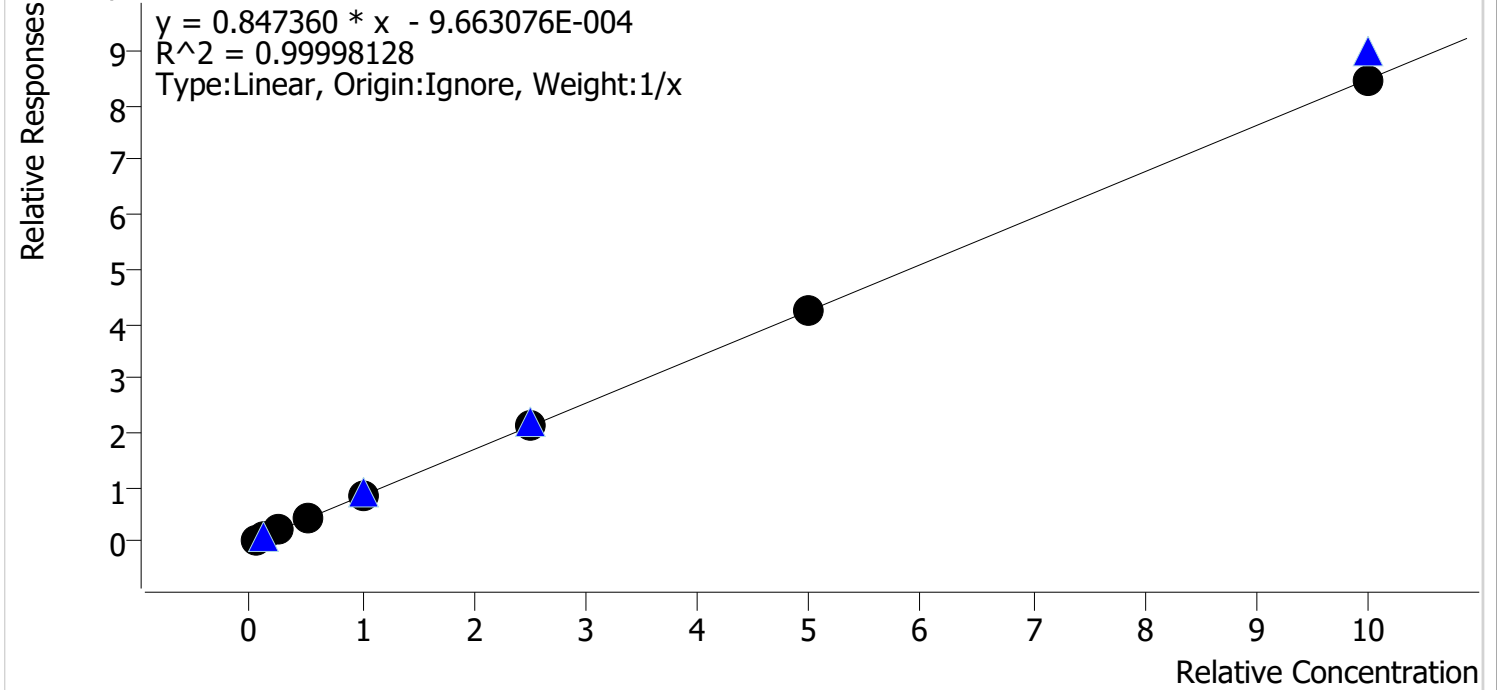
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.4
cal 2	2	✓	10.0	9.9	99.3
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	48.8	97.7
cal 5	5	✓	100.0	104.2	104.2
cal 6	6	✓	250.0	246.5	98.6
cal 7	7	✓	500.0	487.5	97.5
cal 8	8	✓	1000.0	1024.5	102.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Dextrorphan

Internal Standard Dextrorphan-D3

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



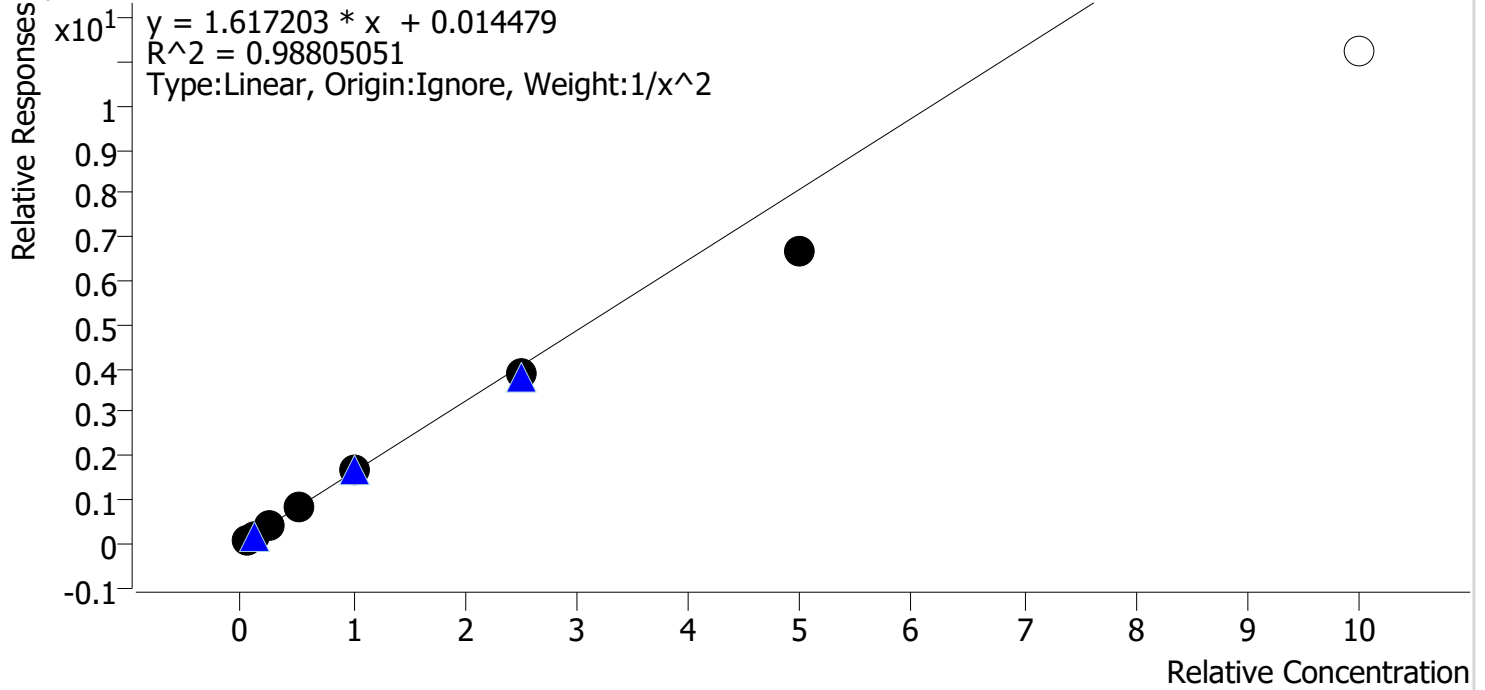
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.6
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	25.0	24.8	99.3
cal 4	4	✓	50.0	49.0	97.9
cal 5	5	✓	100.0	100.4	100.4
cal 6	6	✓	250.0	251.2	100.5
cal 7	7	✓	500.0	499.1	99.8
cal 8	8	✓	1000.0	1000.4	100.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

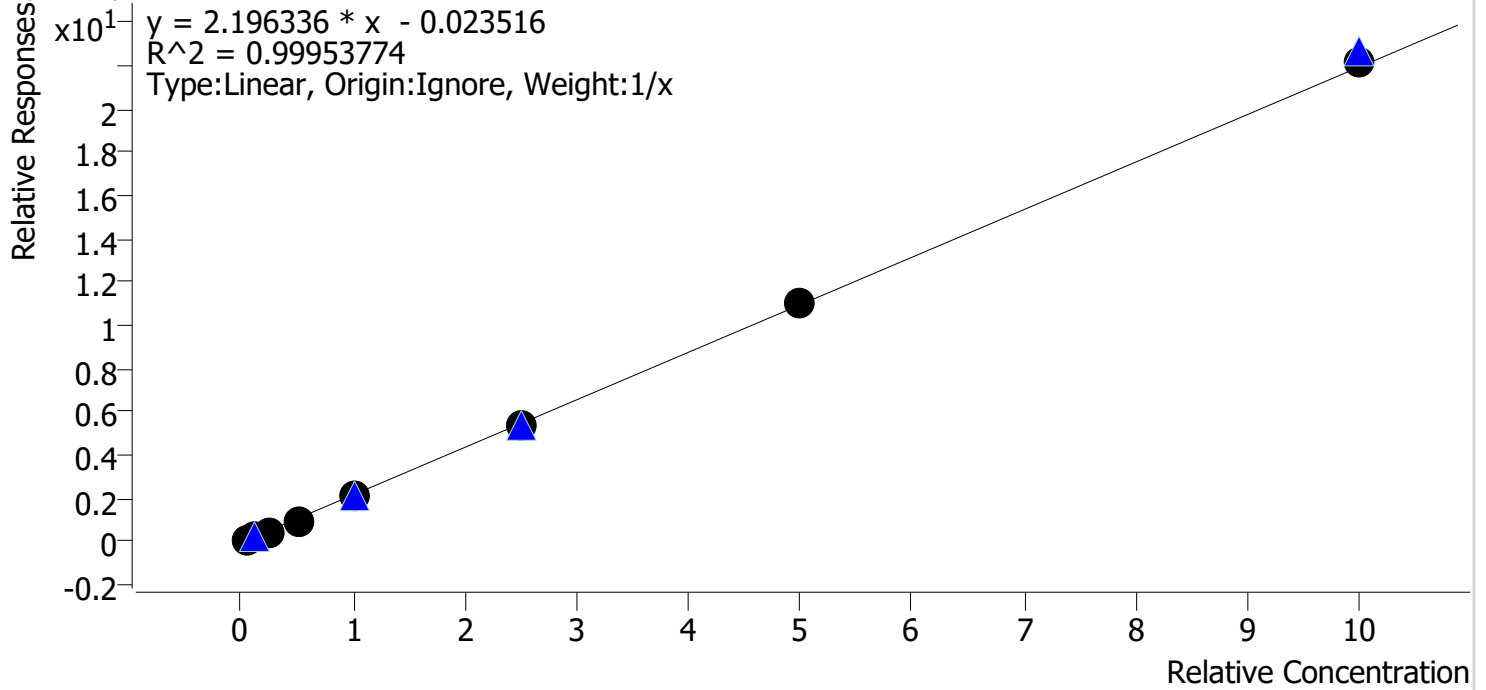


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.3
cal 2	2	✓	10.0	10.7	106.9
cal 3	3	✓	25.0	27.0	107.8
cal 4	4	✓	50.0	53.2	106.5
cal 5	5	✓	100.0	105.3	105.3
cal 6	6	✓	250.0	240.7	96.3
cal 7	7	✓	500.0	414.4	82.9
cal 8	8	x	1000.0	693.8	69.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



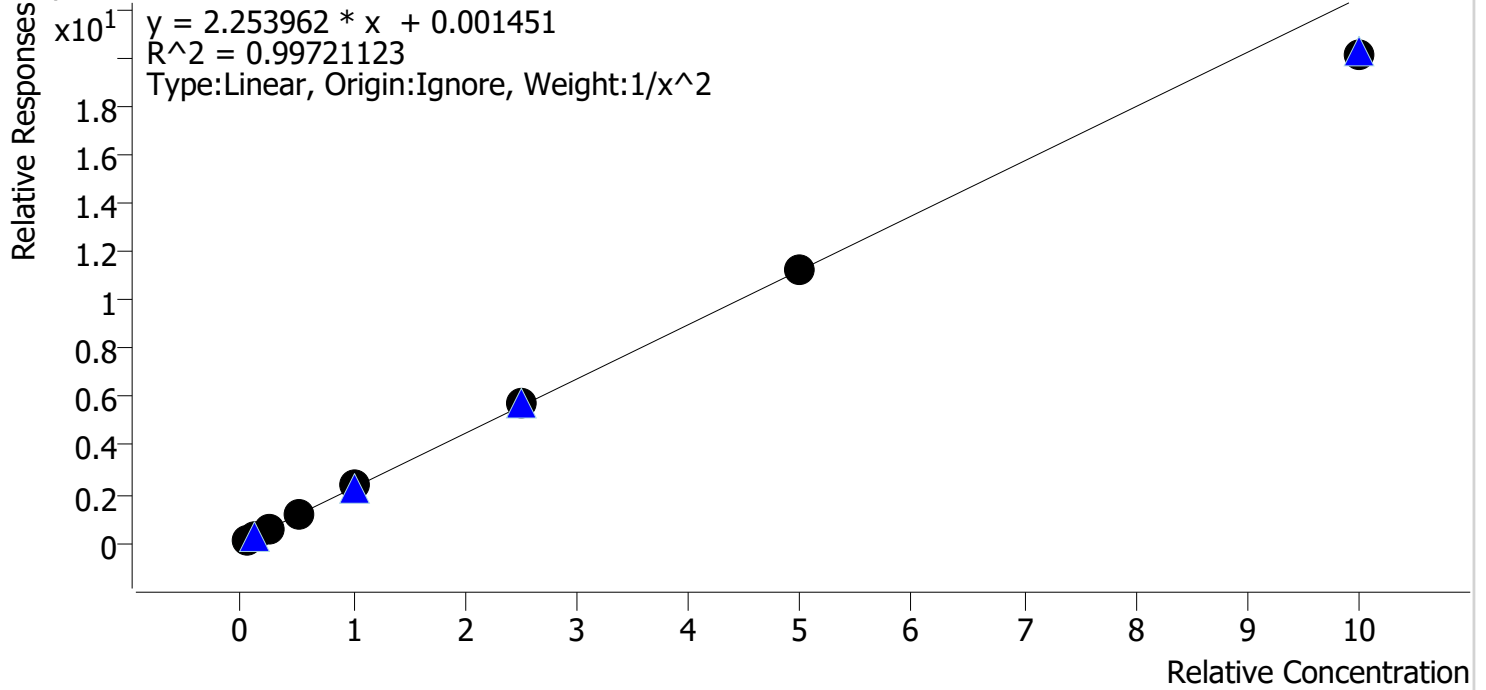
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.6	112.5
cal 2	2	✓	10.0	10.4	104.1
cal 3	3	✓	25.0	23.5	94.1
cal 4	4	✓	50.0	47.2	94.4
cal 5	5	✓	100.0	96.0	96.0
cal 6	6	✓	250.0	243.7	97.5
cal 7	7	✓	500.0	500.9	100.2
cal 8	8	✓	1000.0	1012.7	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.9	98.3
cal 2	2	✓	10.0	10.2	101.8
cal 3	3	✓	25.0	25.5	102.0
cal 4	4	✓	50.0	50.9	101.9
cal 5	5	✓	100.0	105.1	105.1
cal 6	6	✓	250.0	254.3	101.7
cal 7	7	✓	500.0	497.4	99.5
cal 8	8	✓	1000.0	897.7	89.8

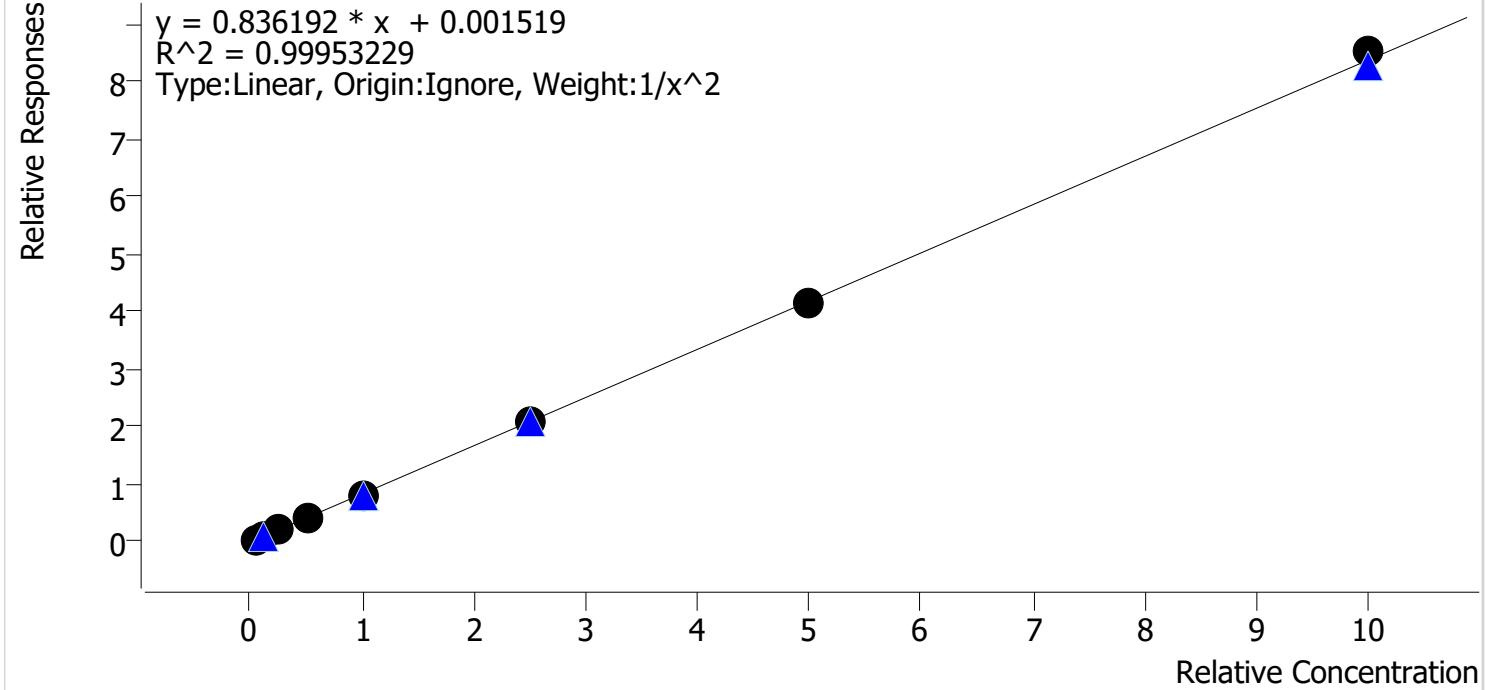
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte EDDP

Internal Standard EDDP-D3

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



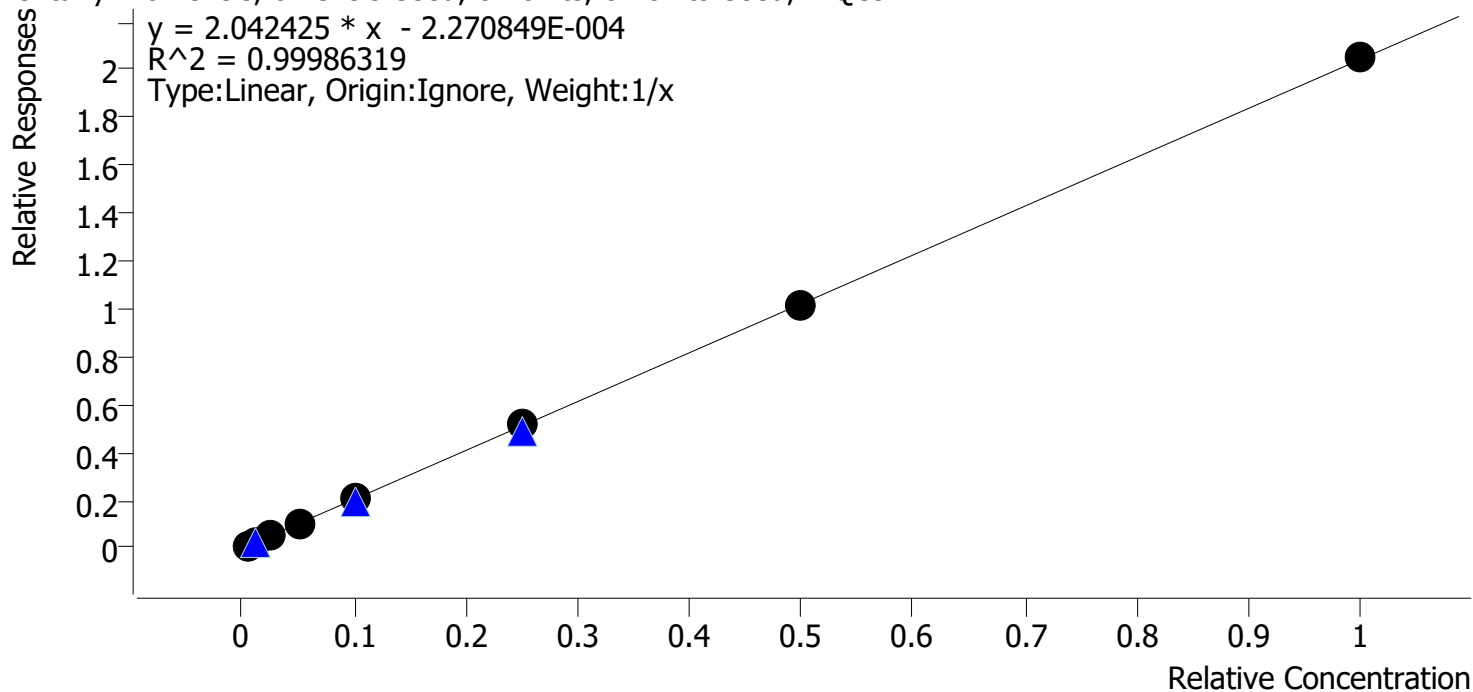
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.3	103.4
cal 3	3	✓	25.0	25.1	100.3
cal 4	4	✓	50.0	48.7	97.3
cal 5	5	✓	100.0	99.7	99.7
cal 6	6	✓	250.0	248.6	99.4
cal 7	7	✓	500.0	497.5	99.5
cal 8	8	✓	1000.0	1017.6	101.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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



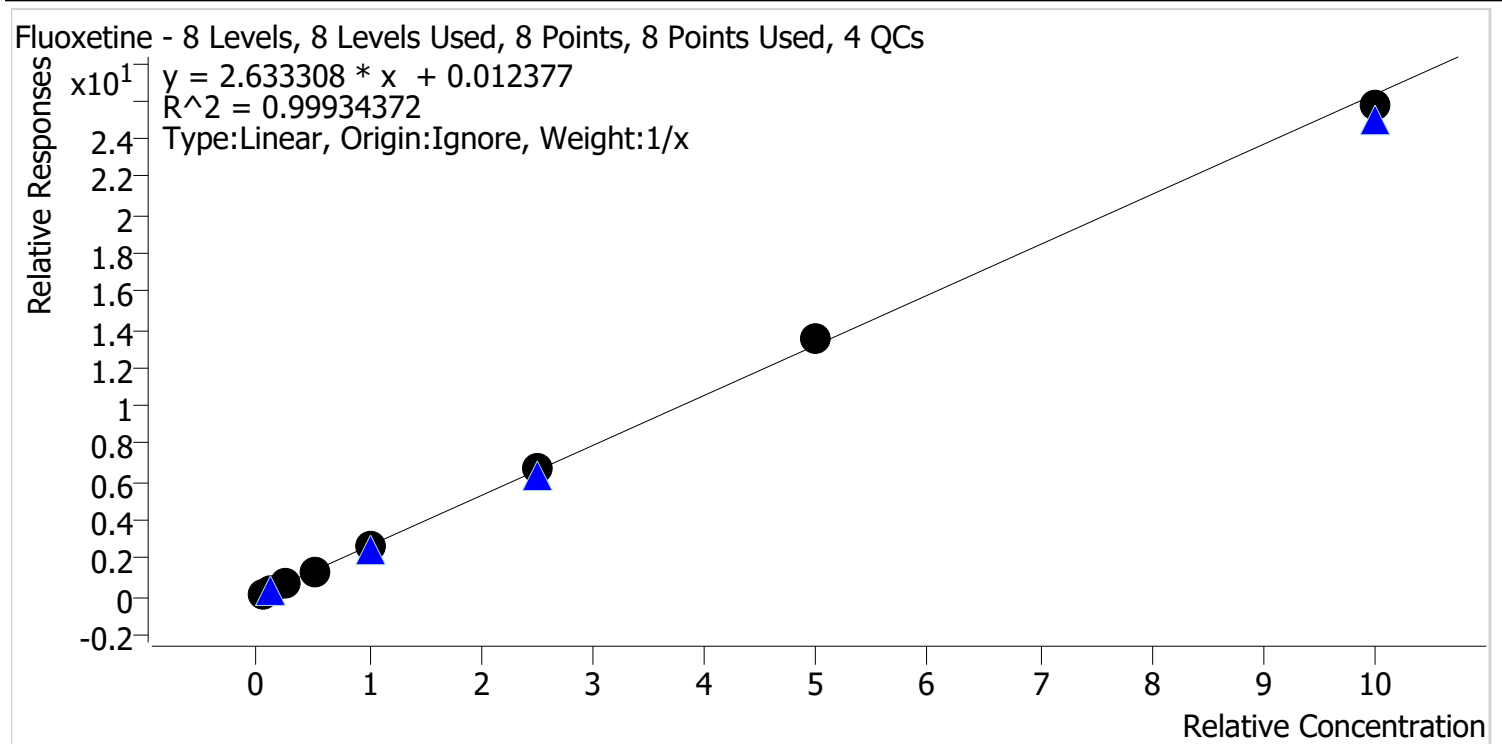
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	98.1
cal 2	2	✓	1.0	1.1	106.1
cal 3	3	✓	2.5	2.5	98.2
cal 4	4	✓	5.0	4.8	95.9
cal 5	5	✓	10.0	10.2	102.0
cal 6	6	✓	25.0	25.1	100.4
cal 7	7	✓	50.0	49.5	99.0
cal 8	8	✓	100.0	100.4	100.4

Compound Calibration Report



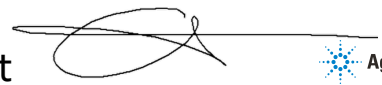
Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Fluoxetine

Internal Standard Fluoxetine-D6



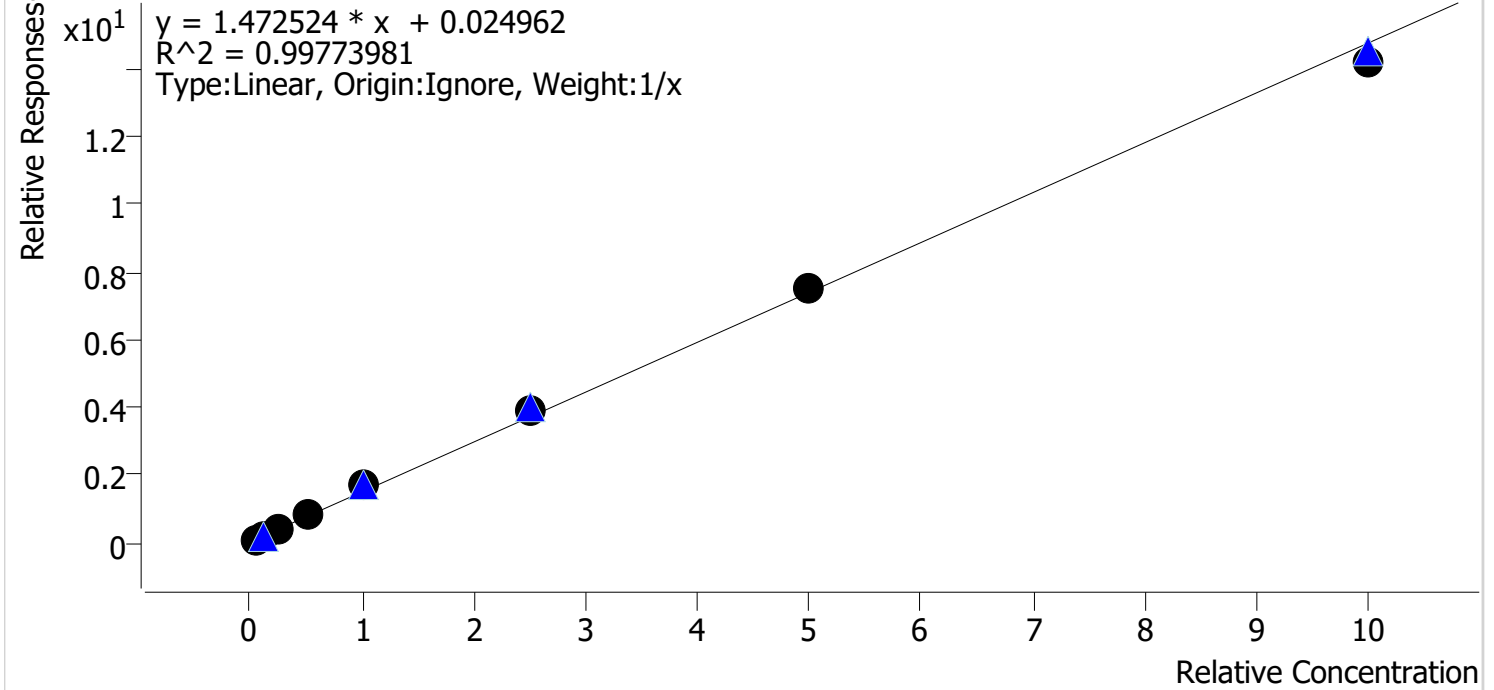
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.6	91.9
cal 2	2	✓	10.0	9.9	98.9
cal 3	3	✓	25.0	25.6	102.3
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	103.1	103.1
cal 6	6	✓	250.0	254.5	101.8
cal 7	7	✓	500.0	514.4	102.9
cal 8	8	✓	1000.0	977.3	97.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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

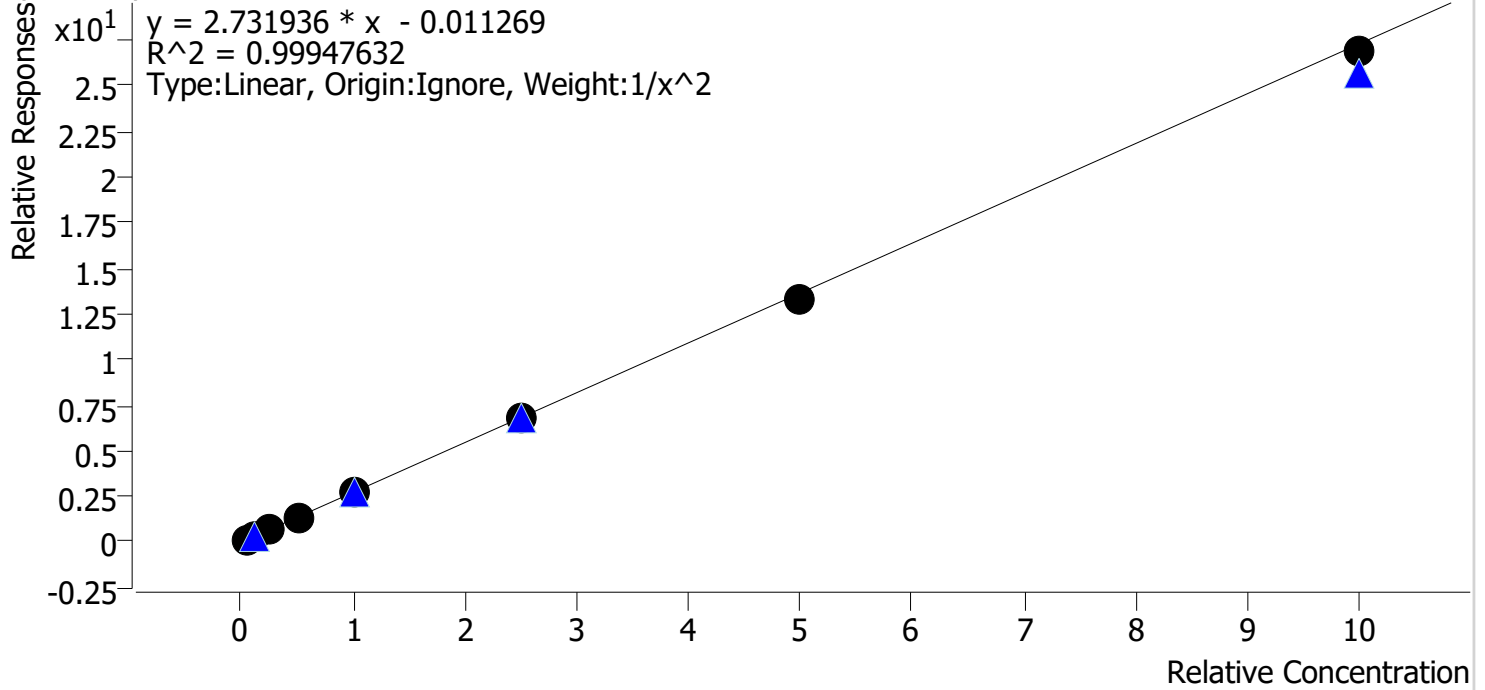


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	3.9	78.5
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	25.8	103.1
cal 4	4	✓	50.0	52.7	105.4
cal 5	5	✓	100.0	110.6	110.6
cal 6	6	✓	250.0	265.9	106.4
cal 7	7	✓	500.0	508.0	101.6
cal 8	8	✓	1000.0	963.3	96.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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



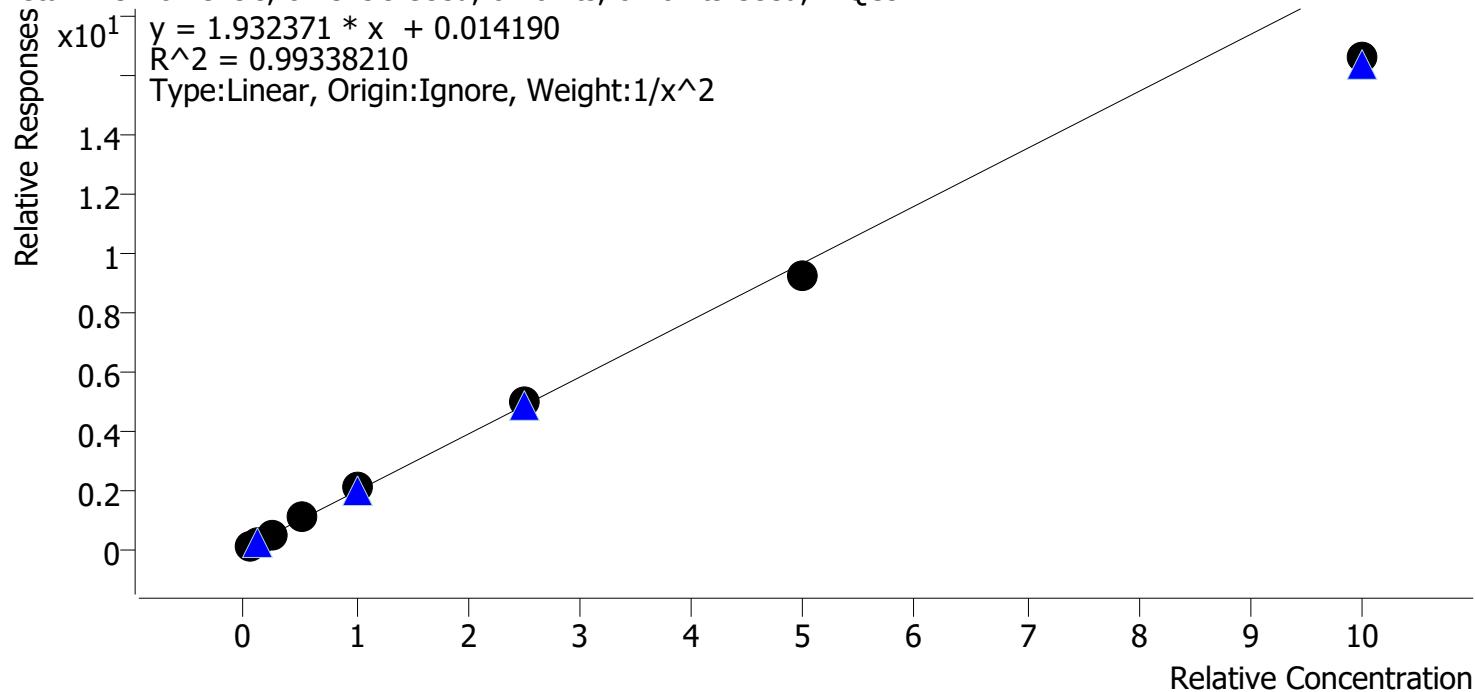
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.9
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.3	101.4
cal 4	4	✓	50.0	49.9	99.7
cal 5	5	✓	100.0	101.4	101.4
cal 6	6	✓	250.0	248.4	99.3
cal 7	7	✓	500.0	490.7	98.1
cal 8	8	✓	1000.0	984.5	98.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Ketamine

Internal Standard Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.7
cal 2	2	✓	10.0	10.5	105.0
cal 3	3	✓	25.0	26.4	105.6
cal 4	4	✓	50.0	52.4	104.8
cal 5	5	✓	100.0	105.4	105.4
cal 6	6	✓	250.0	255.4	102.2
cal 7	7	✓	500.0	476.7	95.3
cal 8	8	✓	1000.0	859.5	86.0

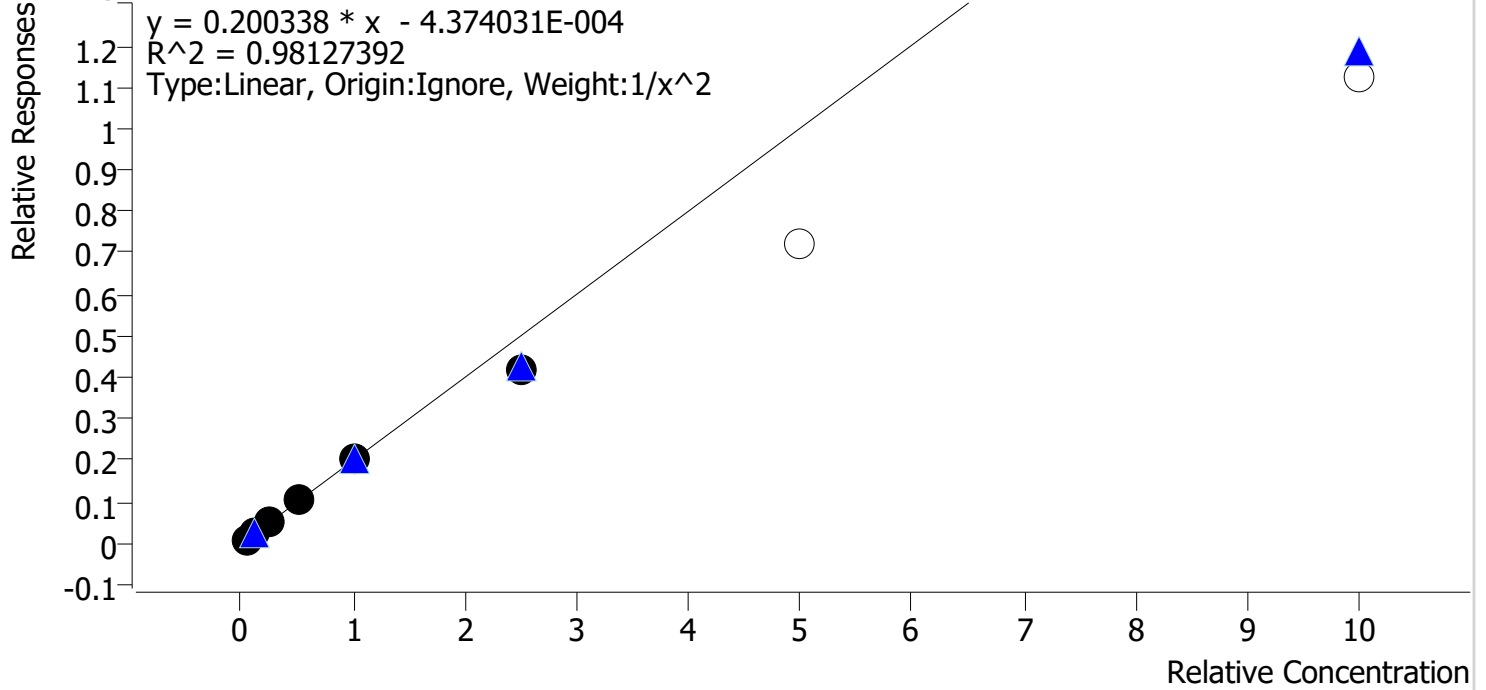
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Lamotrigine

Internal Standard Dextrorphan-D3

Lamotrigine - 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	4.6	91.2
cal 2	2	✓	10.0	11.5	115.1
cal 3	3	✓	25.0	26.5	105.9
cal 4	4	✓	50.0	51.9	103.8
cal 5	5	✓	100.0	100.7	100.7
cal 6	6	✓	250.0	208.4	83.4
cal 7	7	✗	500.0	362.5	72.5
cal 8	8	✗	1000.0	561.6	56.2

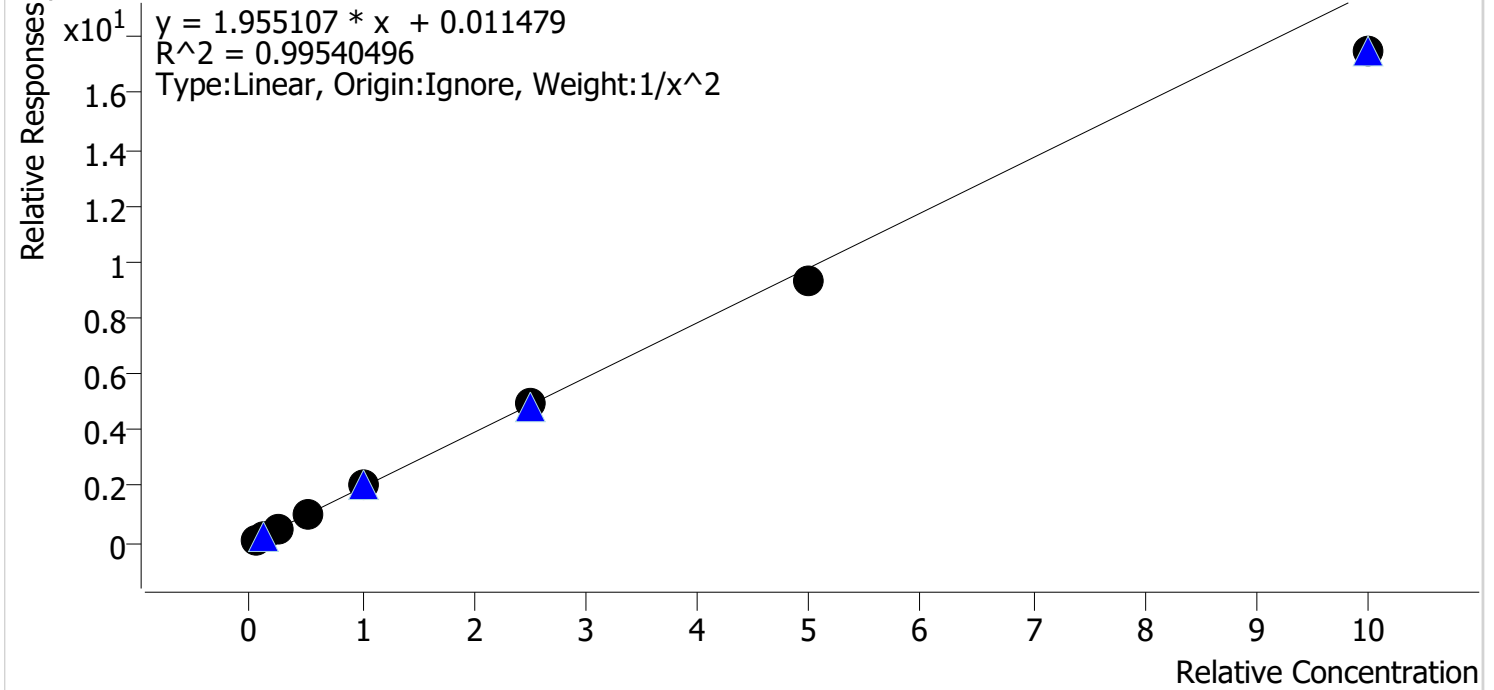
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Meprobamate

Internal Standard Meprobamate-D7

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



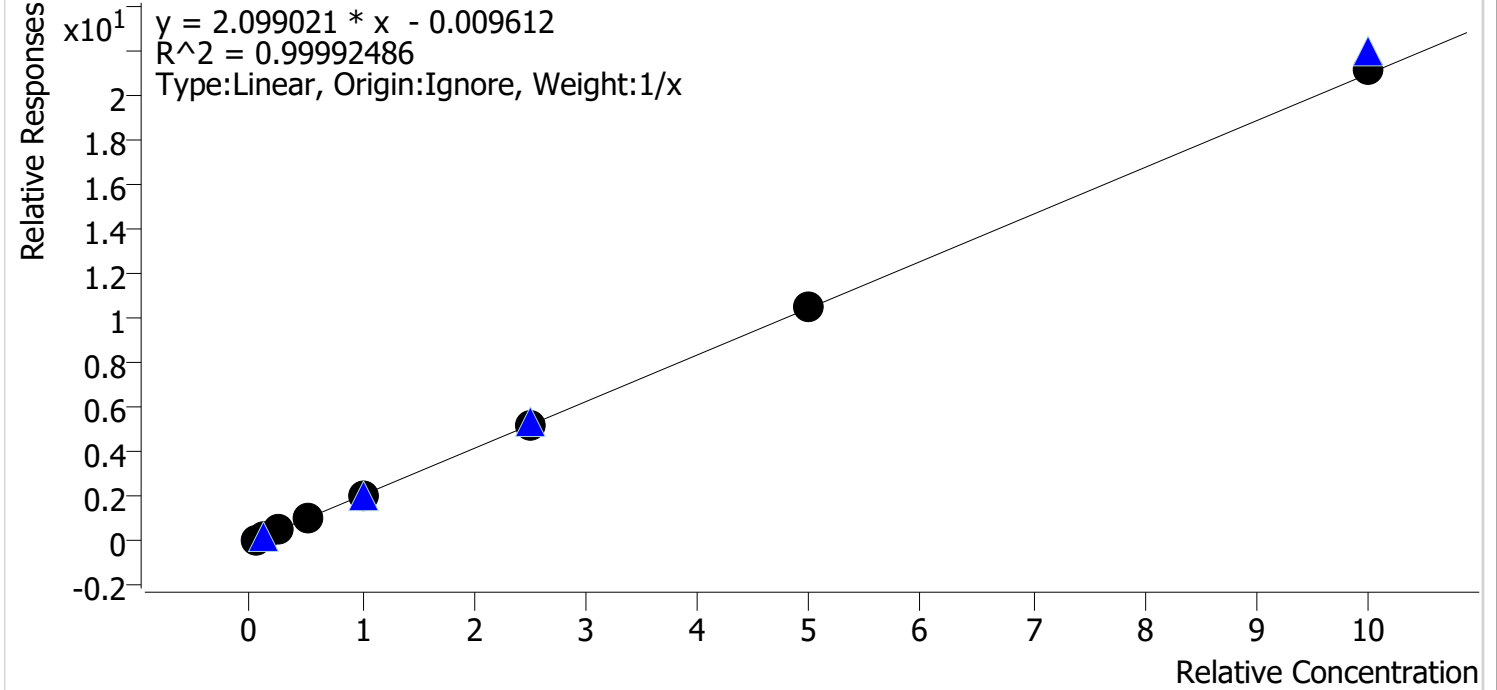
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.2
cal 2	2	✓	10.0	10.5	105.0
cal 3	3	✓	25.0	26.0	103.9
cal 4	4	✓	50.0	51.4	102.9
cal 5	5	✓	100.0	106.5	106.5
cal 6	6	✓	250.0	252.6	101.0
cal 7	7	✓	500.0	475.8	95.2
cal 8	8	✓	1000.0	893.5	89.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Methadone

Internal Standard Methadone-D9

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

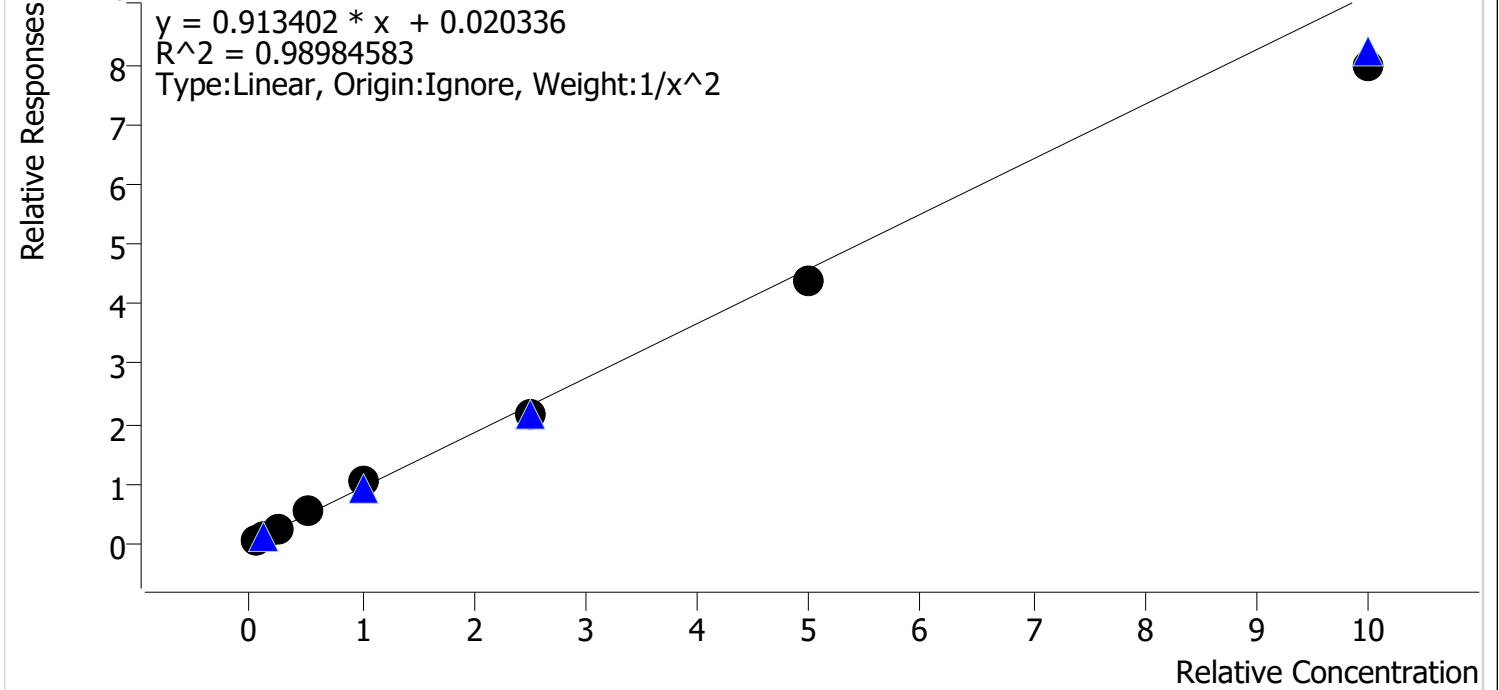


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.4
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	24.6	98.5
cal 4	4	✓	50.0	49.2	98.4
cal 5	5	✓	100.0	99.1	99.1
cal 6	6	✓	250.0	246.1	98.4
cal 7	7	✓	500.0	499.6	99.9
cal 8	8	✓	1000.0	1006.0	100.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.7	94.8
cal 2	2	✓	10.0	10.6	105.8
cal 3	3	✓	25.0	26.3	105.2
cal 4	4	✓	50.0	55.4	110.7
cal 5	5	✓	100.0	109.1	109.1
cal 6	6	✓	250.0	231.0	92.4
cal 7	7	✓	500.0	475.8	95.2
cal 8	8	✓	1000.0	867.9	86.8

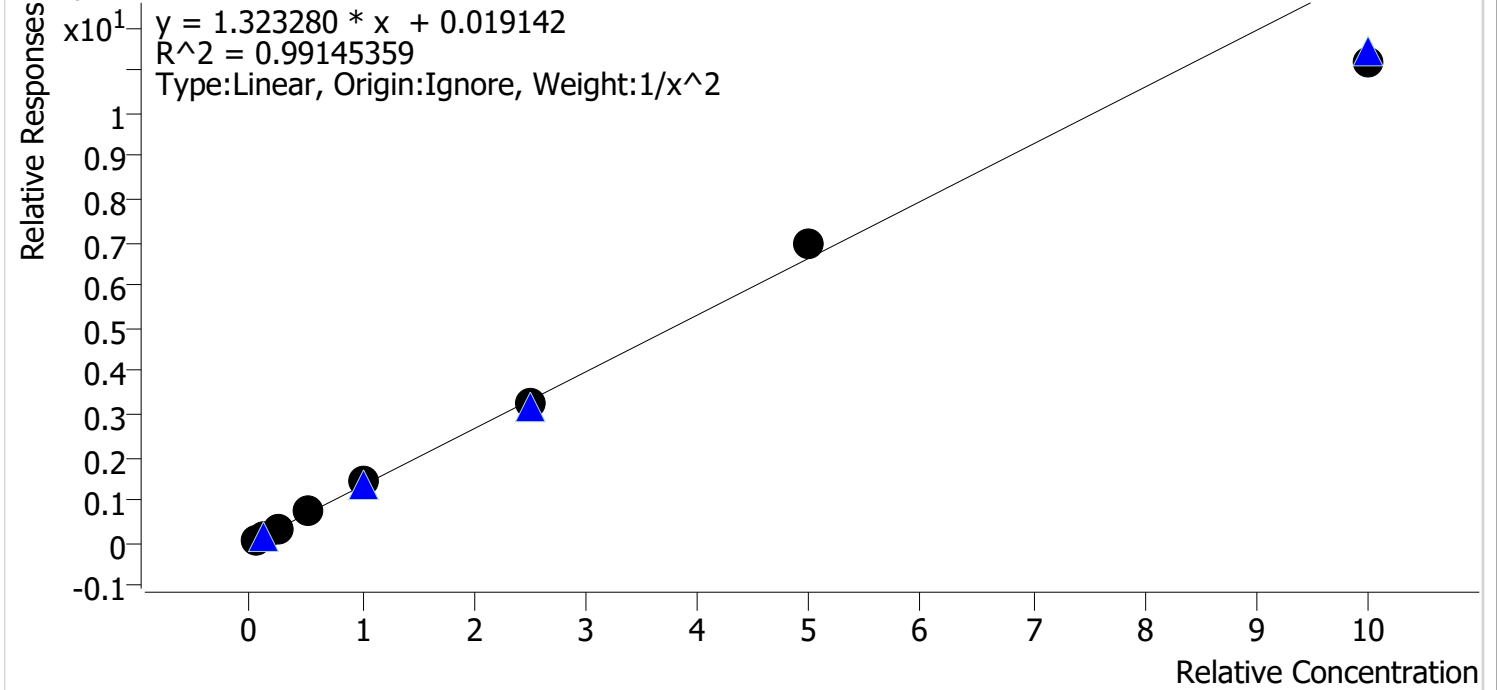
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Metoprolol

Internal Standard Carisoprodol-D7

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



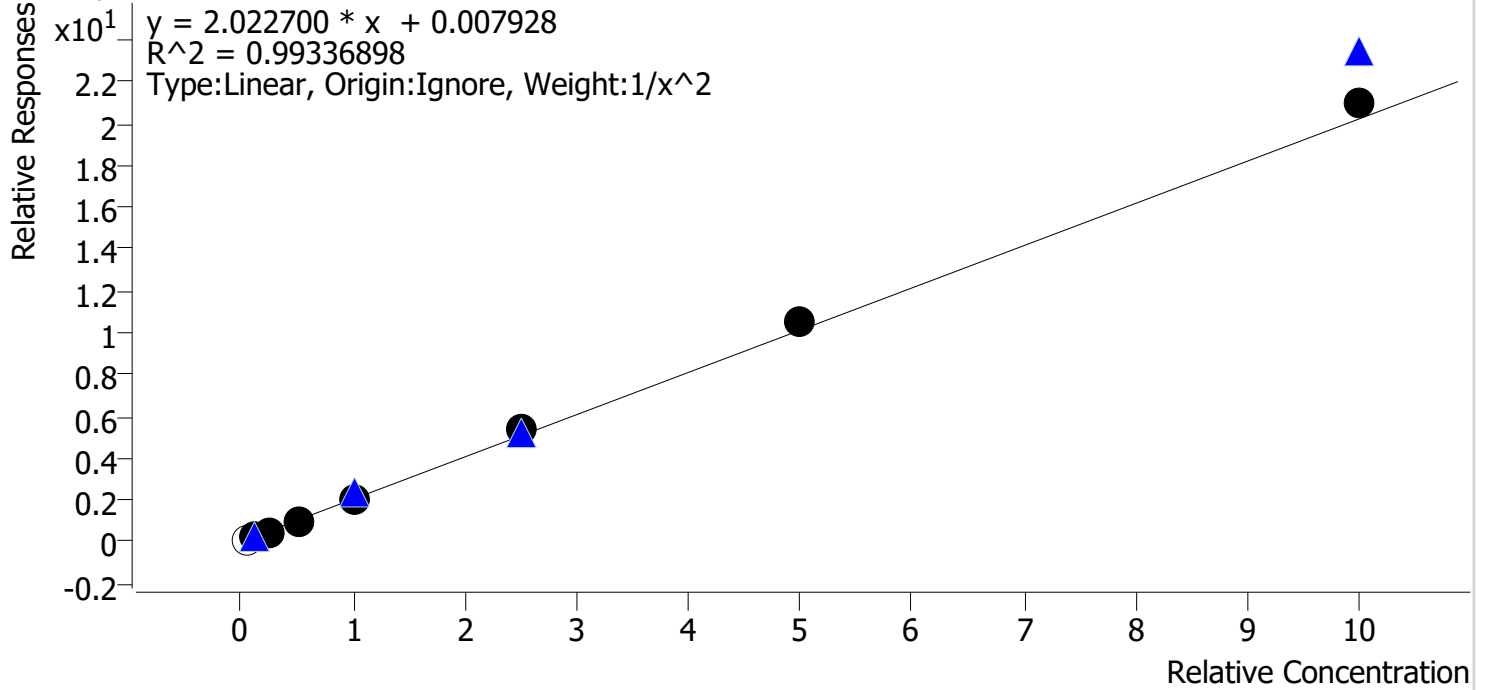
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	9.3	93.2
cal 3	3	✓	25.0	25.6	102.5
cal 4	4	✓	50.0	53.7	107.4
cal 5	5	✓	100.0	107.9	107.9
cal 6	6	✓	250.0	242.6	97.1
cal 7	7	✓	500.0	528.0	105.6
cal 8	8	✓	1000.0	845.0	84.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Mirtazapine

Internal Standard Methadone-D9

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



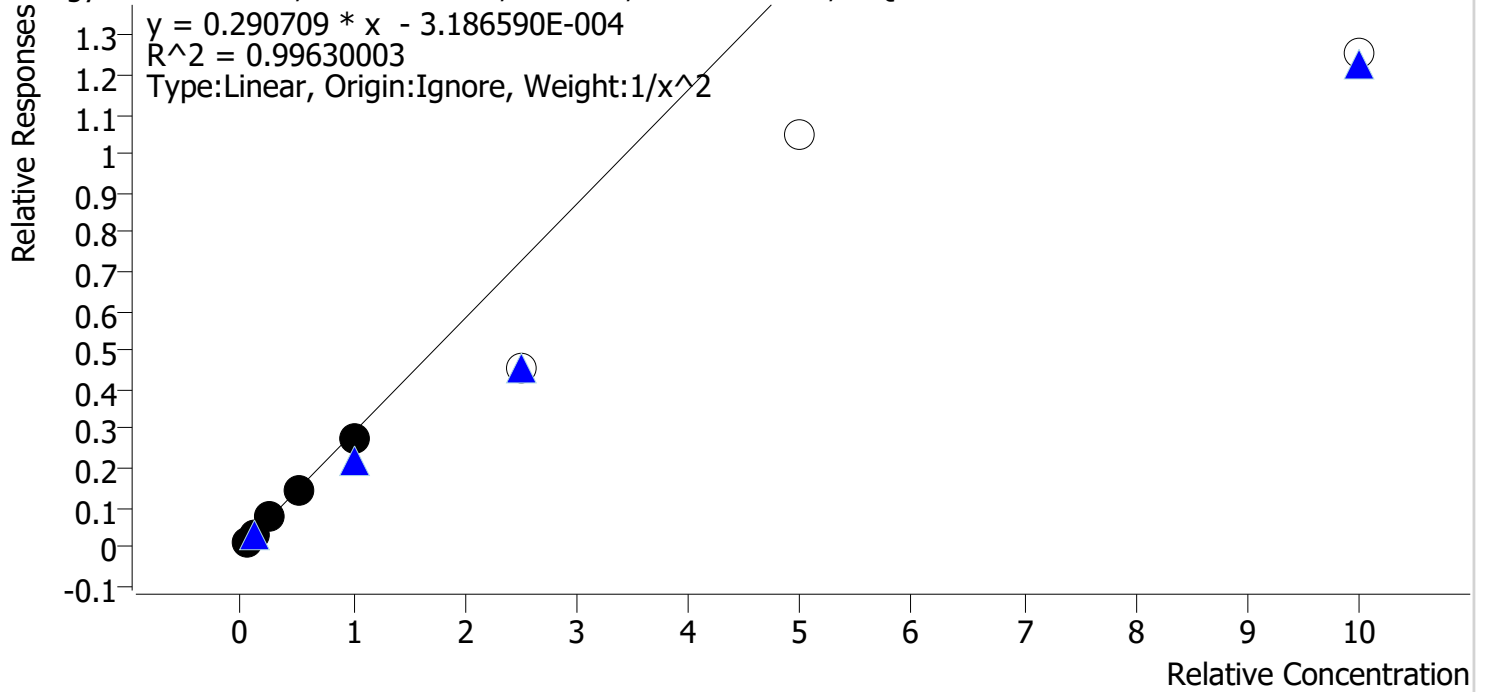
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	3.9	77.5
cal 2	2	✓	10.0	10.5	105.5
cal 3	3	✓	25.0	22.5	90.2
cal 4	4	✓	50.0	45.6	91.2
cal 5	5	✓	100.0	97.9	97.9
cal 6	6	✓	250.0	268.6	107.4
cal 7	7	✓	500.0	518.2	103.6
cal 8	8	✓	1000.0	1041.7	104.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Mitragynine

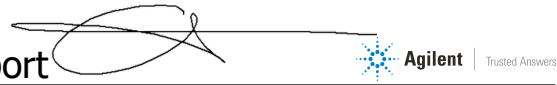
Internal Standard Methadone-D9

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



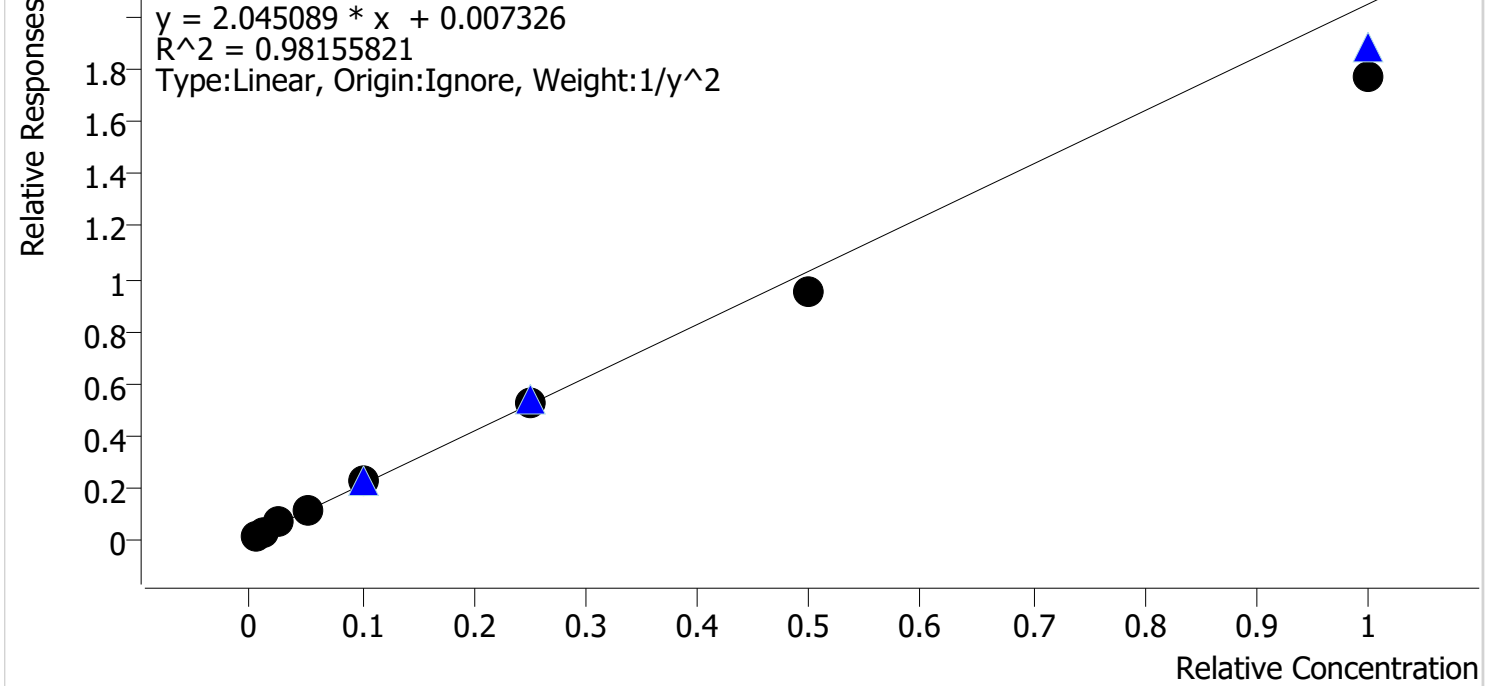
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.6
cal 2	2	✓	10.0	10.6	106.0
cal 3	3	✓	25.0	26.0	104.1
cal 4	4	✓	50.0	48.7	97.5
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✗	250.0	156.8	62.7
cal 7	7	✗	500.0	359.5	71.9
cal 8	8	✗	1000.0	431.5	43.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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



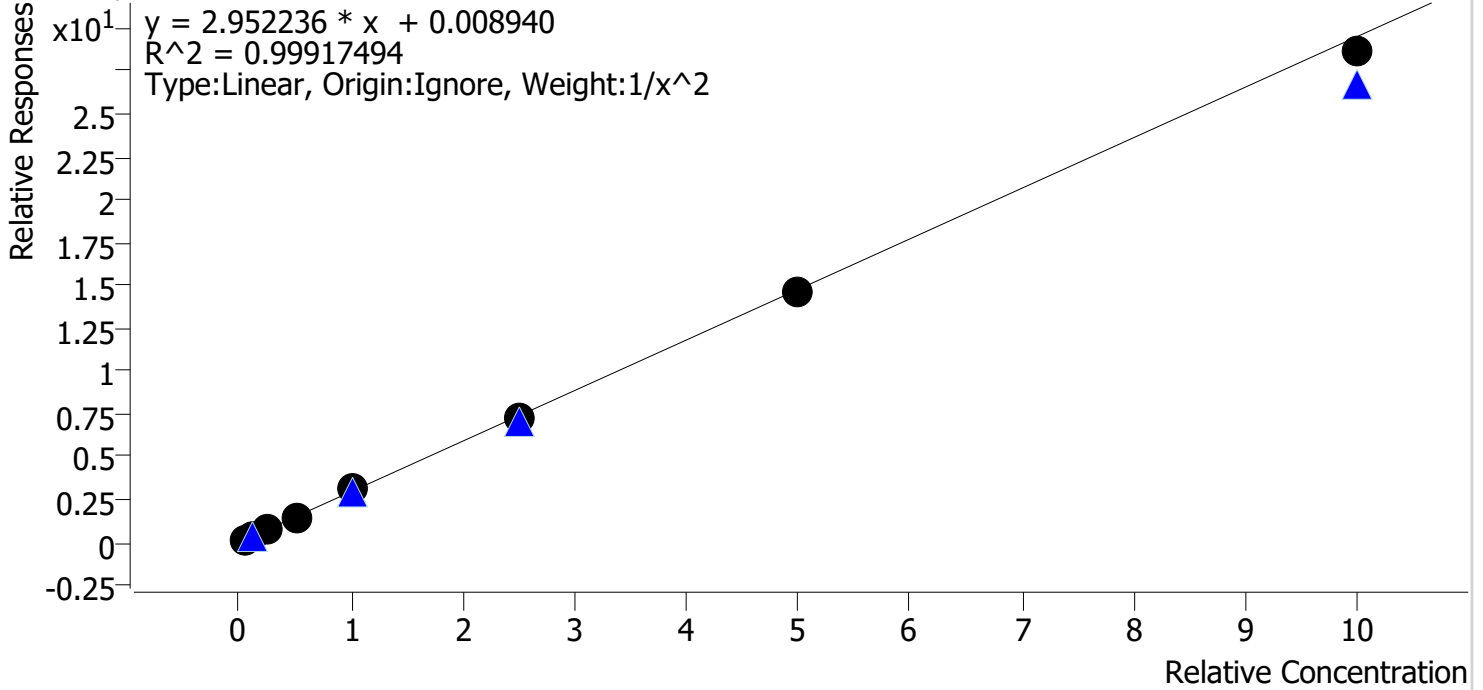
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.4	82.8
cal 2	2	✓	1.0	1.2	121.7
cal 3	3	✓	2.5	2.9	117.3
cal 4	4	✓	5.0	5.4	108.4
cal 5	5	✓	10.0	10.9	109.2
cal 6	6	✓	25.0	25.6	102.4
cal 7	7	✓	50.0	45.9	91.8
cal 8	8	✓	100.0	86.6	86.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Nordiazepam

Internal Standard Nordiazepam-D5

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



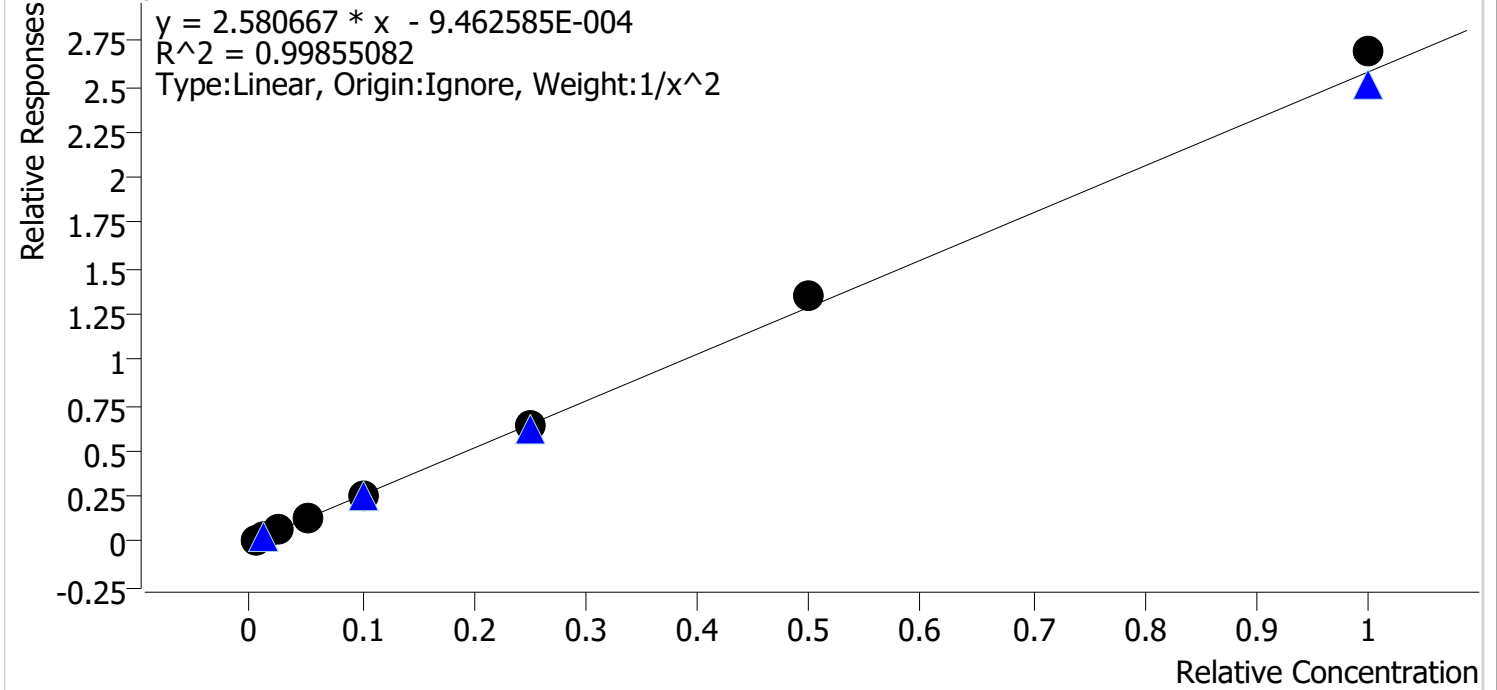
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.8
cal 2	2	✓	10.0	10.4	103.8
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	49.8	99.6
cal 5	5	✓	100.0	103.2	103.2
cal 6	6	✓	250.0	247.5	99.0
cal 7	7	✓	500.0	492.4	98.5
cal 8	8	✓	1000.0	970.3	97.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Norfentanyl

Internal Standard Norfentanyl-D5

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

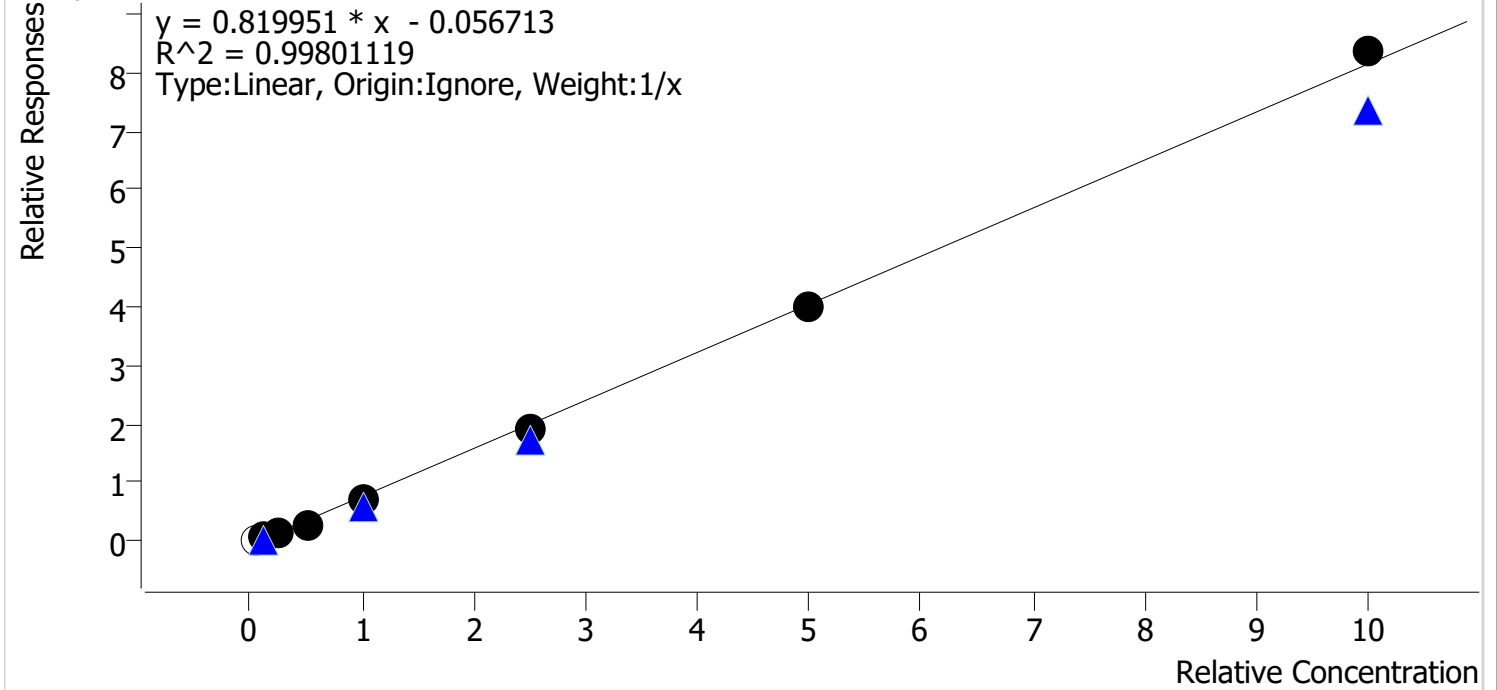


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	101.5
cal 2	2	✓	1.0	1.0	99.3
cal 3	3	✓	2.5	2.4	96.5
cal 4	4	✓	5.0	4.8	95.4
cal 5	5	✓	10.0	9.8	98.4
cal 6	6	✓	25.0	25.0	100.1
cal 7	7	✓	50.0	52.2	104.4
cal 8	8	✓	100.0	104.3	104.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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

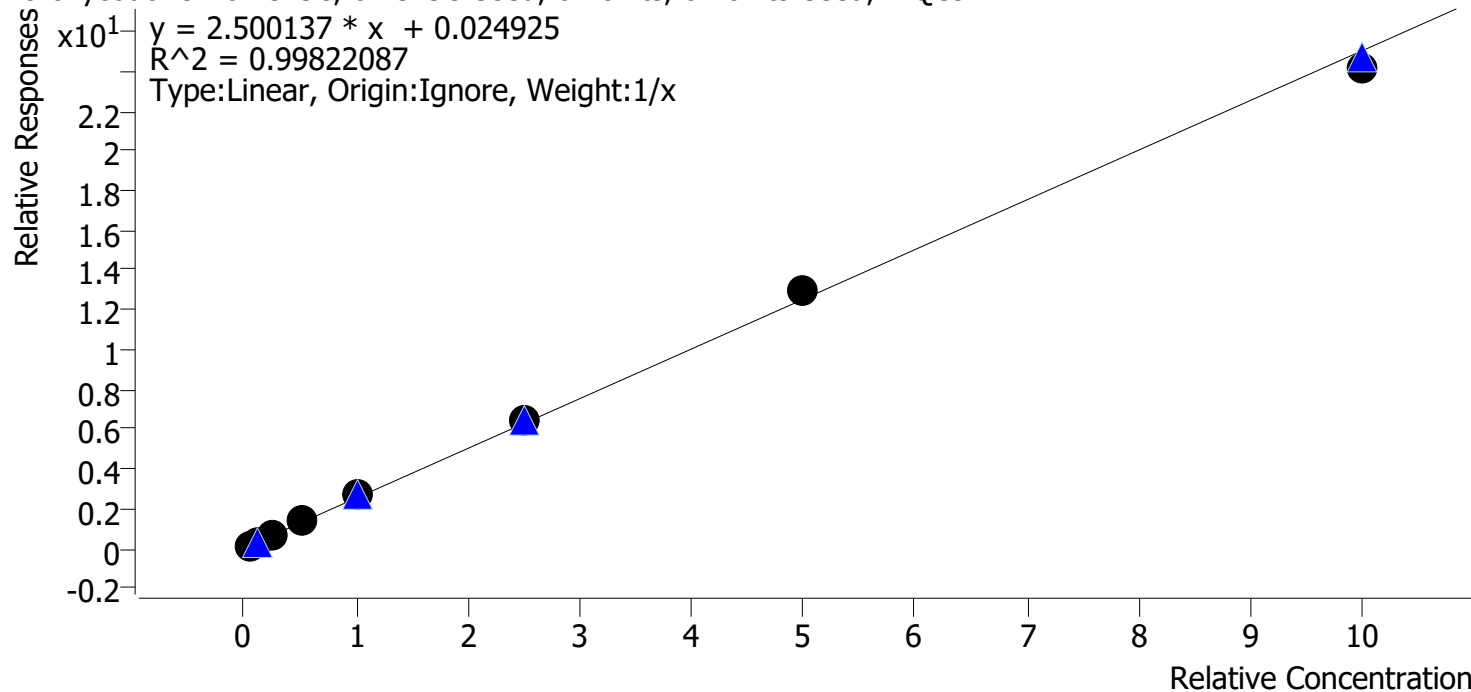


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	10.0	199.6
cal 2	2	✓	10.0	13.0	130.0
cal 3	3	✓	25.0	22.7	90.7
cal 4	4	✓	50.0	43.2	86.3
cal 5	5	✓	100.0	94.5	94.5
cal 6	6	✓	250.0	243.4	97.3
cal 7	7	✓	500.0	492.5	98.5
cal 8	8	✓	1000.0	1025.7	102.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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

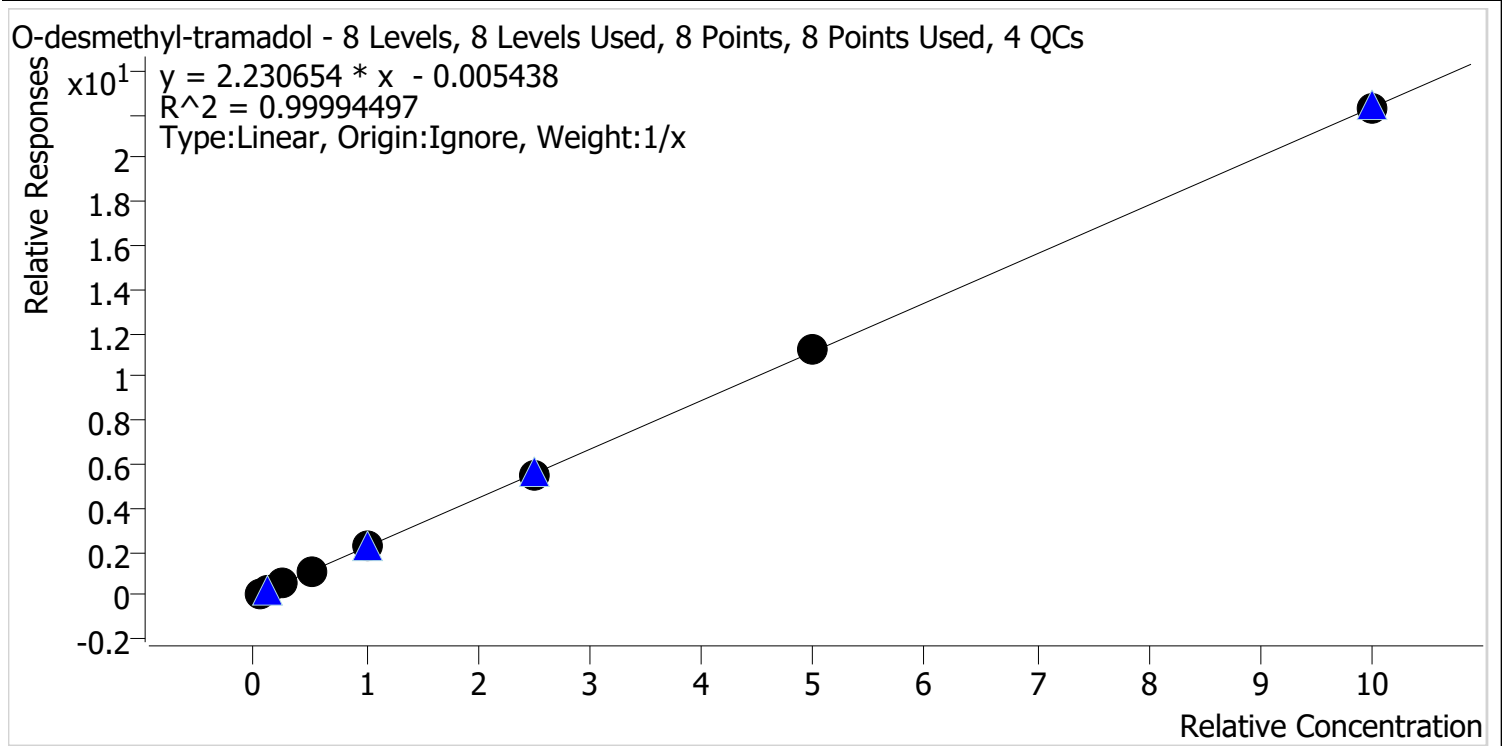


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.2	83.8
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	25.5	102.0
cal 4	4	✓	50.0	53.0	106.0
cal 5	5	✓	100.0	107.8	107.8
cal 6	6	✓	250.0	256.2	102.5
cal 7	7	✓	500.0	519.6	103.9
cal 8	8	✓	1000.0	964.0	96.4

Compound Calibration Report



Batch results	D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin		
Last Cal. Update	6/12/2019 10:11 AM		
Analyst Name	ISP\datastor		
Analyte	O-desmethyl-tramadol	Internal Standard	O-desmethyl-tramadol-D6



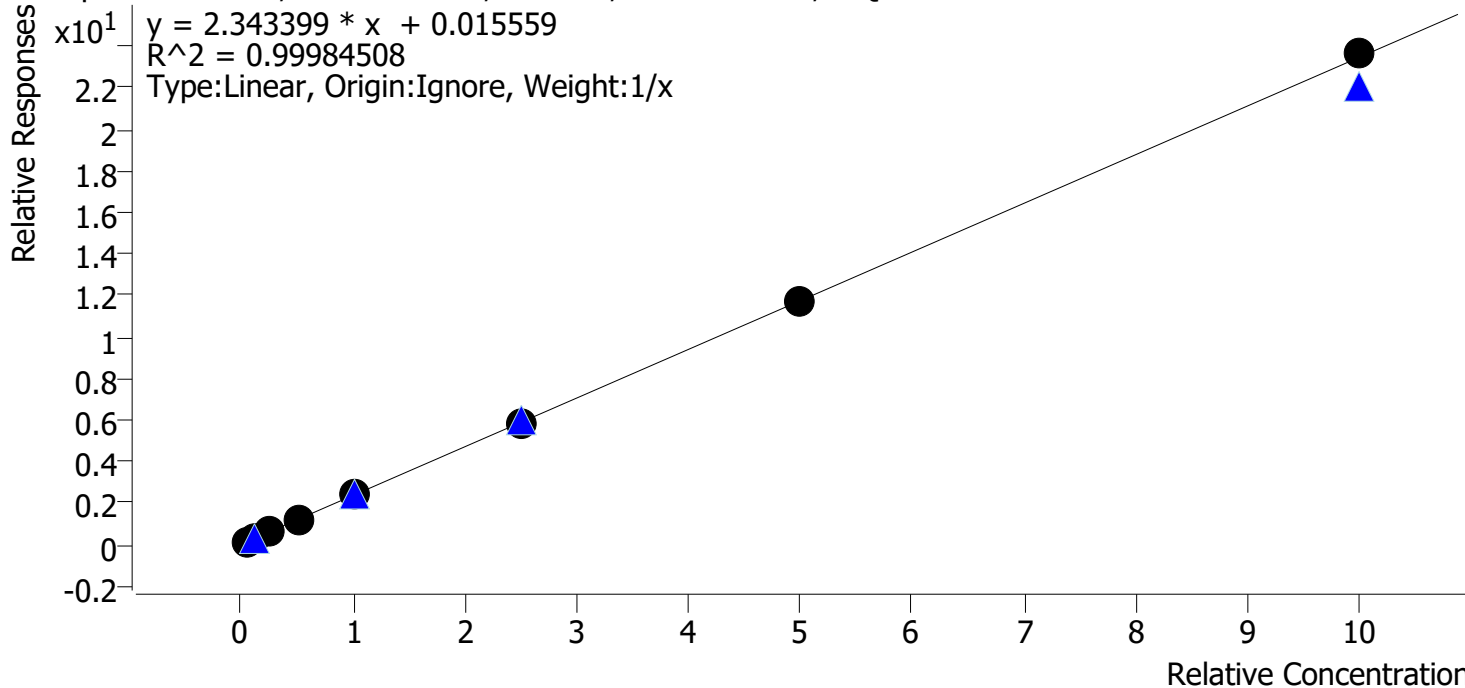
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.7
cal 2	2	✓	10.0	10.2	102.5
cal 3	3	✓	25.0	24.6	98.5
cal 4	4	✓	50.0	48.4	96.9
cal 5	5	✓	100.0	99.1	99.1
cal 6	6	✓	250.0	249.1	99.6
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	999.9	100.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



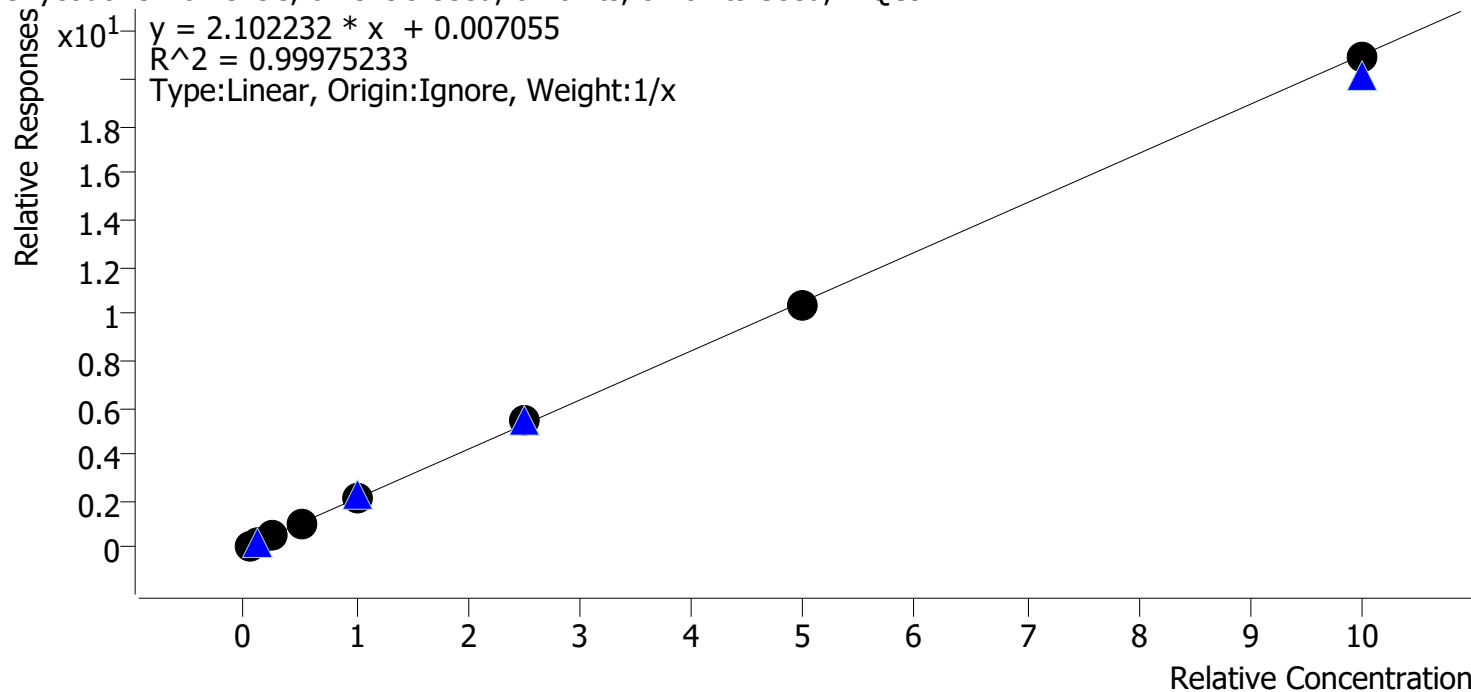
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	95.0
cal 2	2	✓	10.0	10.4	104.4
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	48.9	97.9
cal 5	5	✓	100.0	100.5	100.5
cal 6	6	✓	250.0	245.3	98.1
cal 7	7	✓	500.0	496.3	99.3
cal 8	8	✓	1000.0	1007.7	100.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	4.5	90.4
cal 2	2	✓	10.0	10.3	103.4
cal 3	3	✓	25.0	25.2	100.8
cal 4	4	✓	50.0	50.6	101.2
cal 5	5	✓	100.0	103.0	103.0
cal 6	6	✓	250.0	257.0	102.8
cal 7	7	✓	500.0	494.6	98.9
cal 8	8	✓	1000.0	994.7	99.5

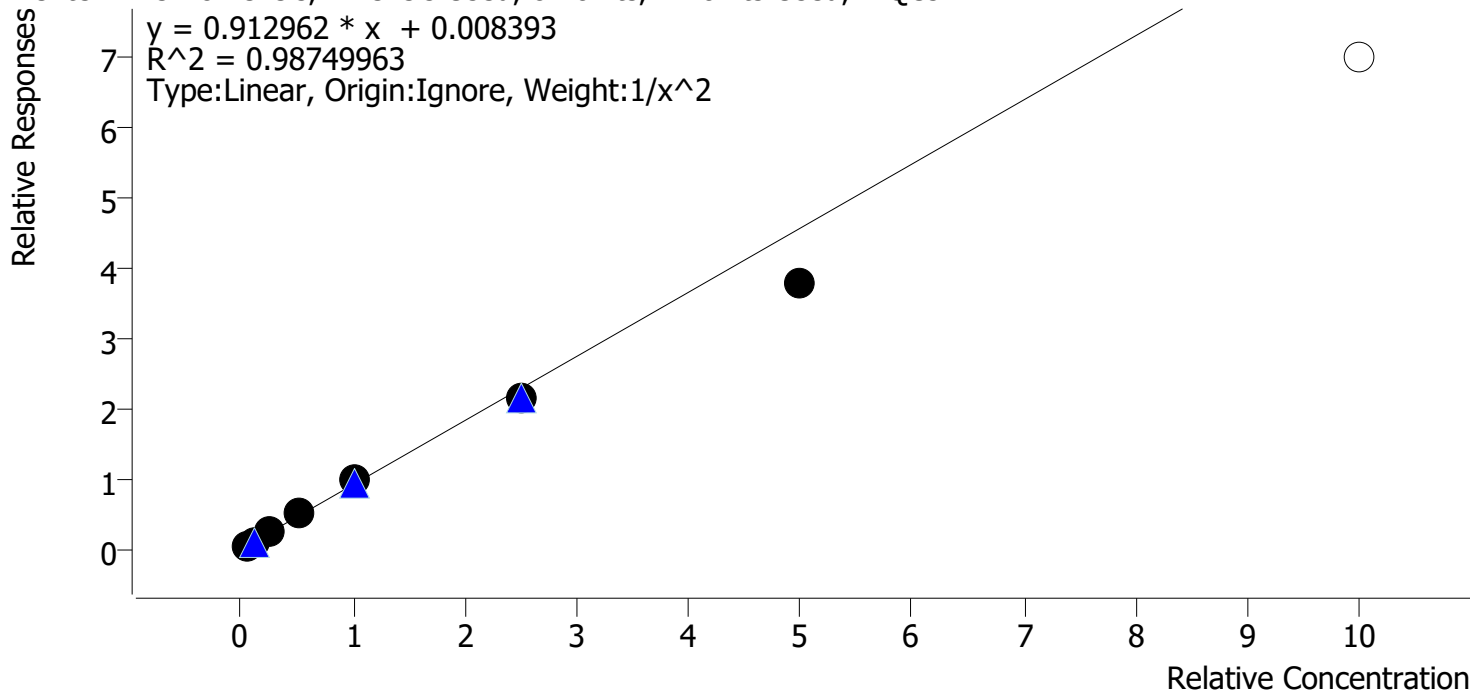
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Phentermine

Internal Standard Phentermine-D5

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



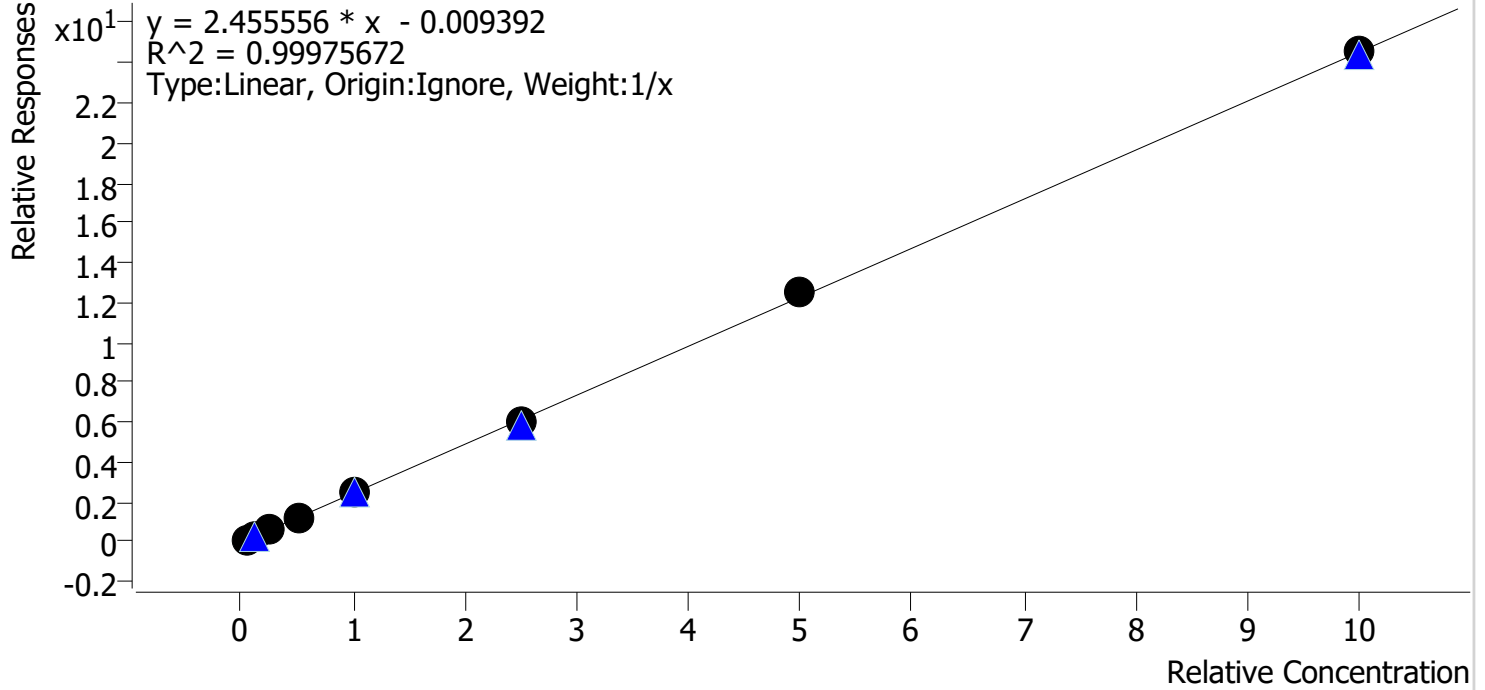
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.4
cal 2	2	✓	10.0	10.6	106.1
cal 3	3	✓	25.0	27.2	108.8
cal 4	4	✓	50.0	53.7	107.3
cal 5	5	✓	100.0	105.8	105.8
cal 6	6	✓	250.0	235.2	94.1
cal 7	7	✓	500.0	417.1	83.4
cal 8	8	✗	1000.0	765.9	76.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	5.2	103.4
cal 2	2	✓	10.0	10.3	102.6
cal 3	3	✓	25.0	24.5	98.0
cal 4	4	✓	50.0	48.7	97.5
cal 5	5	✓	100.0	99.9	99.9
cal 6	6	✓	250.0	242.2	96.9
cal 7	7	✓	500.0	508.1	101.6
cal 8	8	✓	1000.0	1001.1	100.1

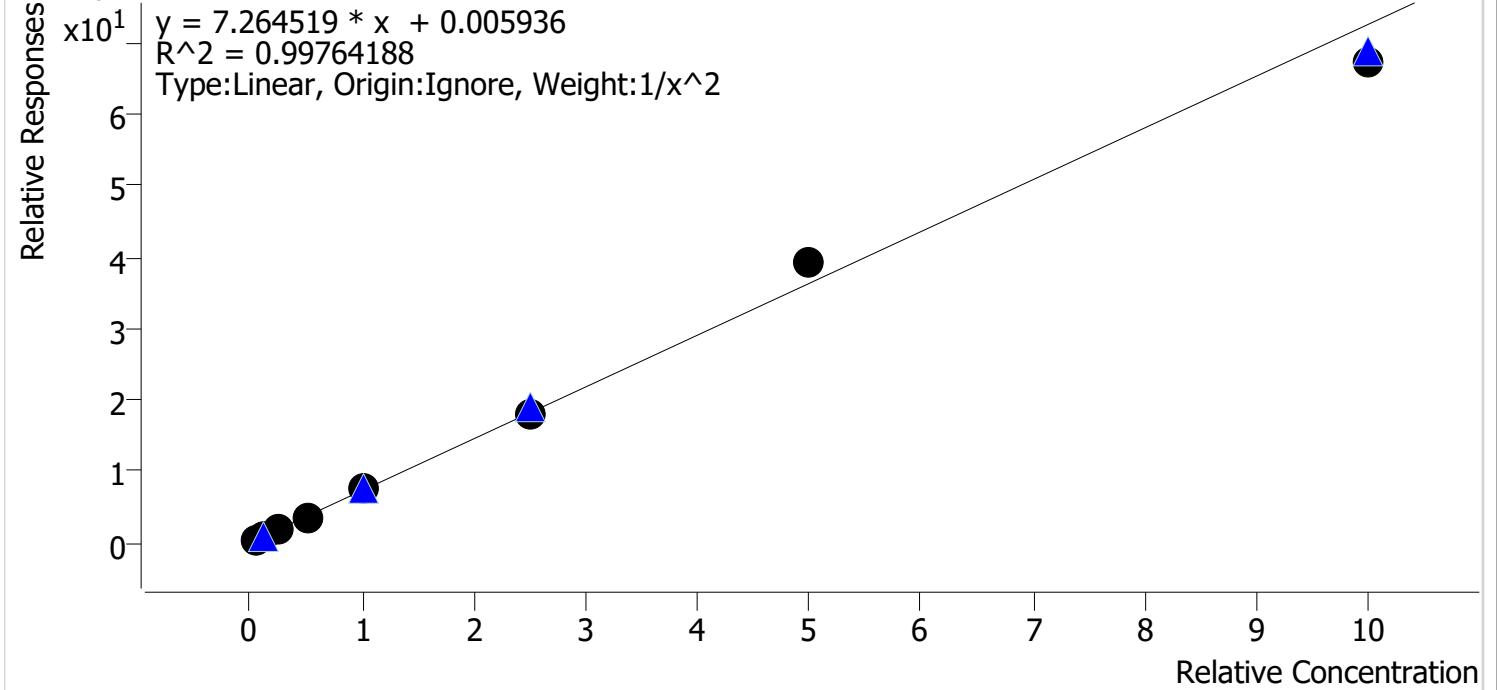
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28_061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Quetiapine

Internal Standard Quetiapine-D8

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



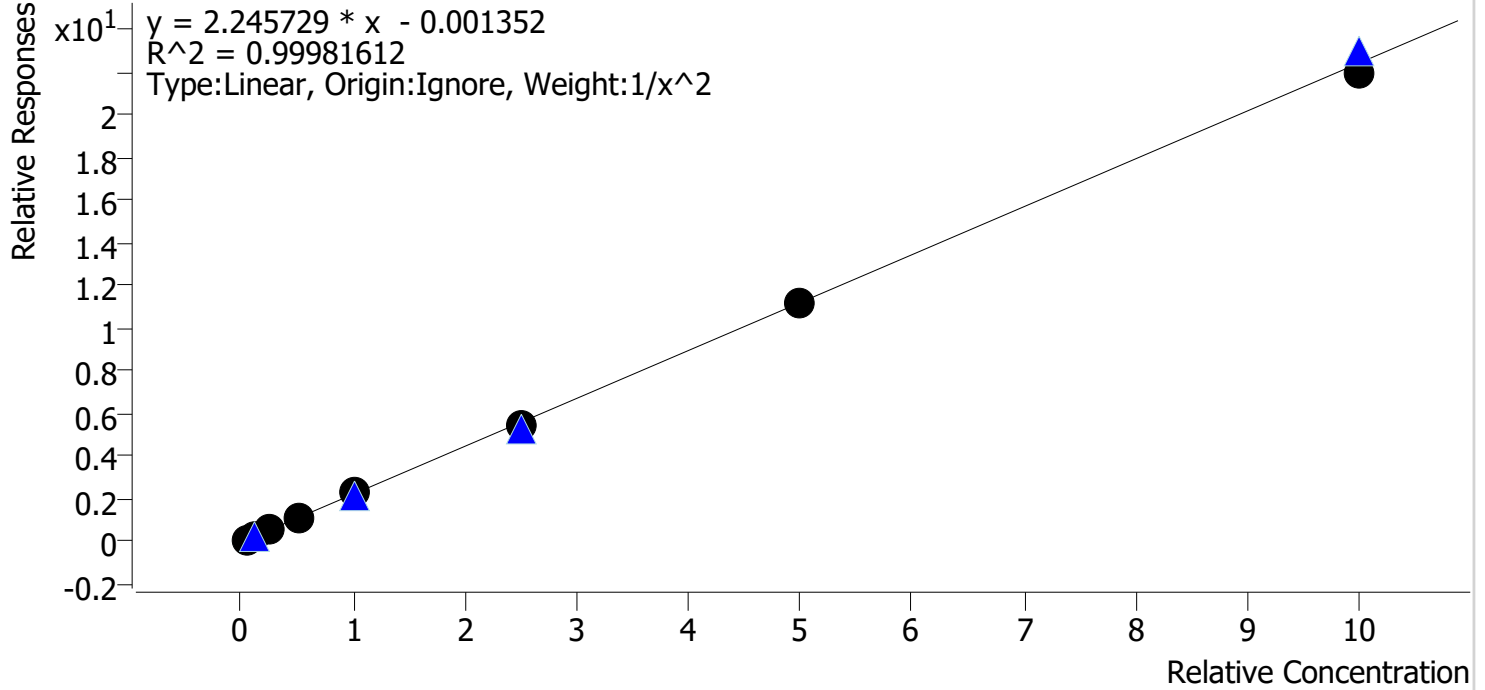
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	25.1	100.3
cal 4	4	✓	50.0	49.7	99.5
cal 5	5	✓	100.0	101.1	101.1
cal 6	6	✓	250.0	245.8	98.3
cal 7	7	✓	500.0	540.8	108.2
cal 8	8	✓	1000.0	926.8	92.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Sertraline

Internal Standard Sertraline-D3

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



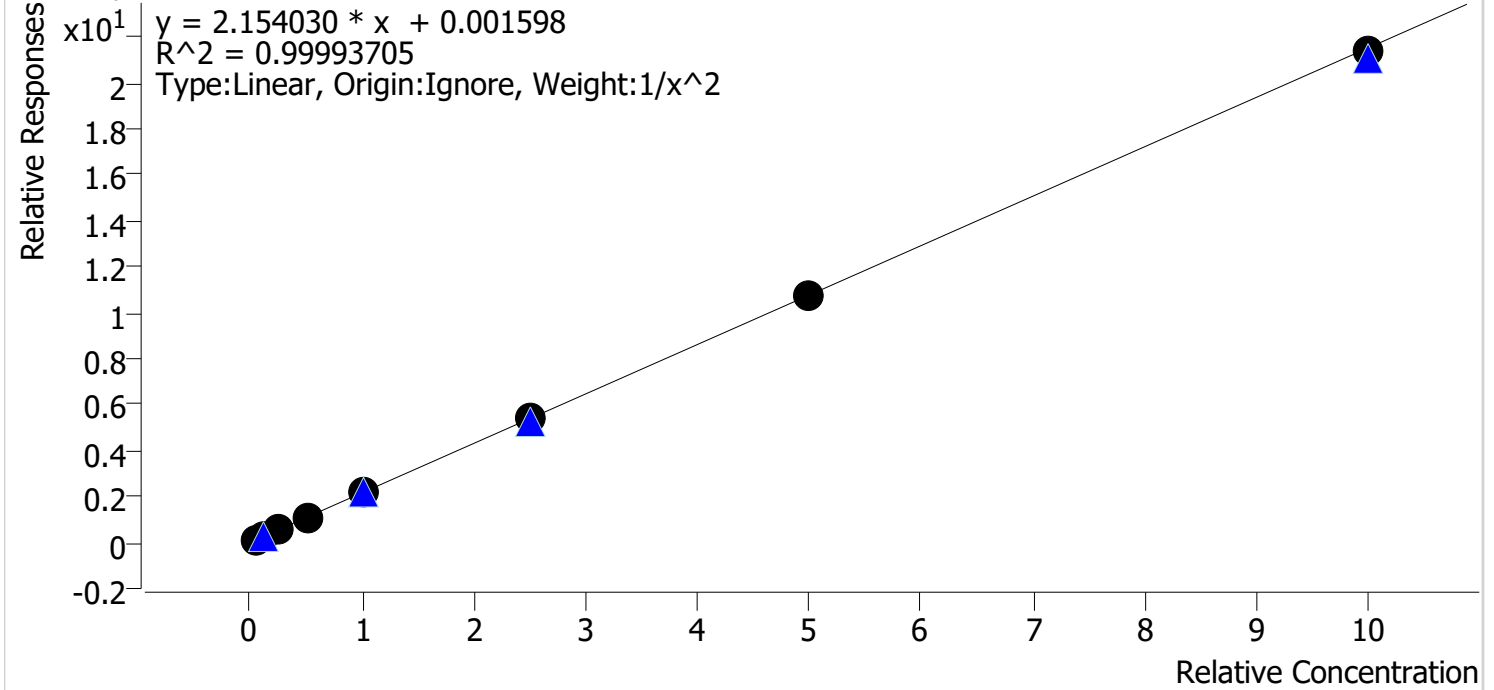
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	25.3	101.3
cal 4	4	✓	50.0	50.2	100.4
cal 5	5	✓	100.0	101.3	101.3
cal 6	6	✓	250.0	246.4	98.6
cal 7	7	✓	500.0	500.9	100.2
cal 8	8	✓	1000.0	982.4	98.2

Compound Calibration Report



Batch results	D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin		
Last Cal. Update	6/12/2019 10:11 AM		
Analyst Name	ISP\datastor		
Analyte	Temazepam	Internal Standard	Temazepam-D5

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

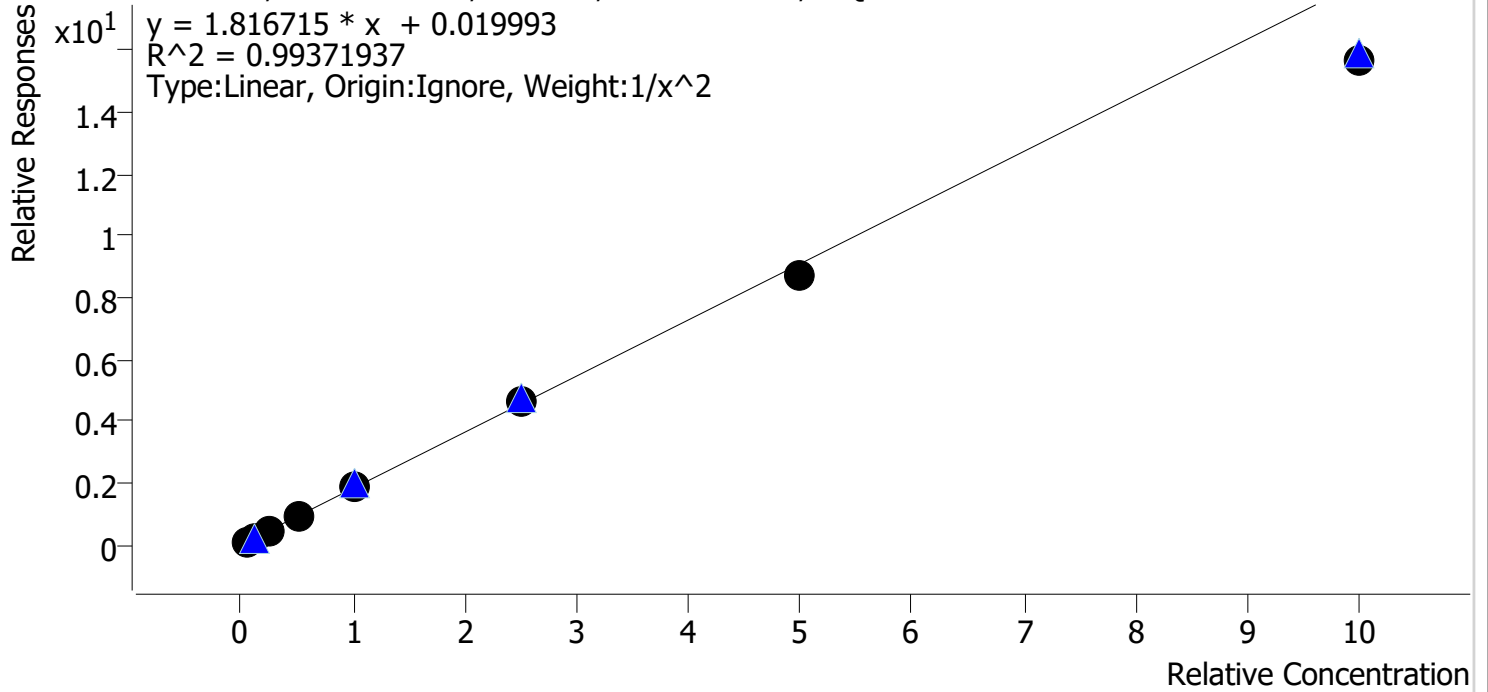


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.5
cal 2	2	✓	10.0	10.1	100.9
cal 3	3	✓	25.0	25.0	100.1
cal 4	4	✓	50.0	49.9	99.8
cal 5	5	✓	100.0	101.2	101.2
cal 6	6	✓	250.0	248.7	99.5
cal 7	7	✓	500.0	498.9	99.8
cal 8	8	✓	1000.0	992.5	99.3



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



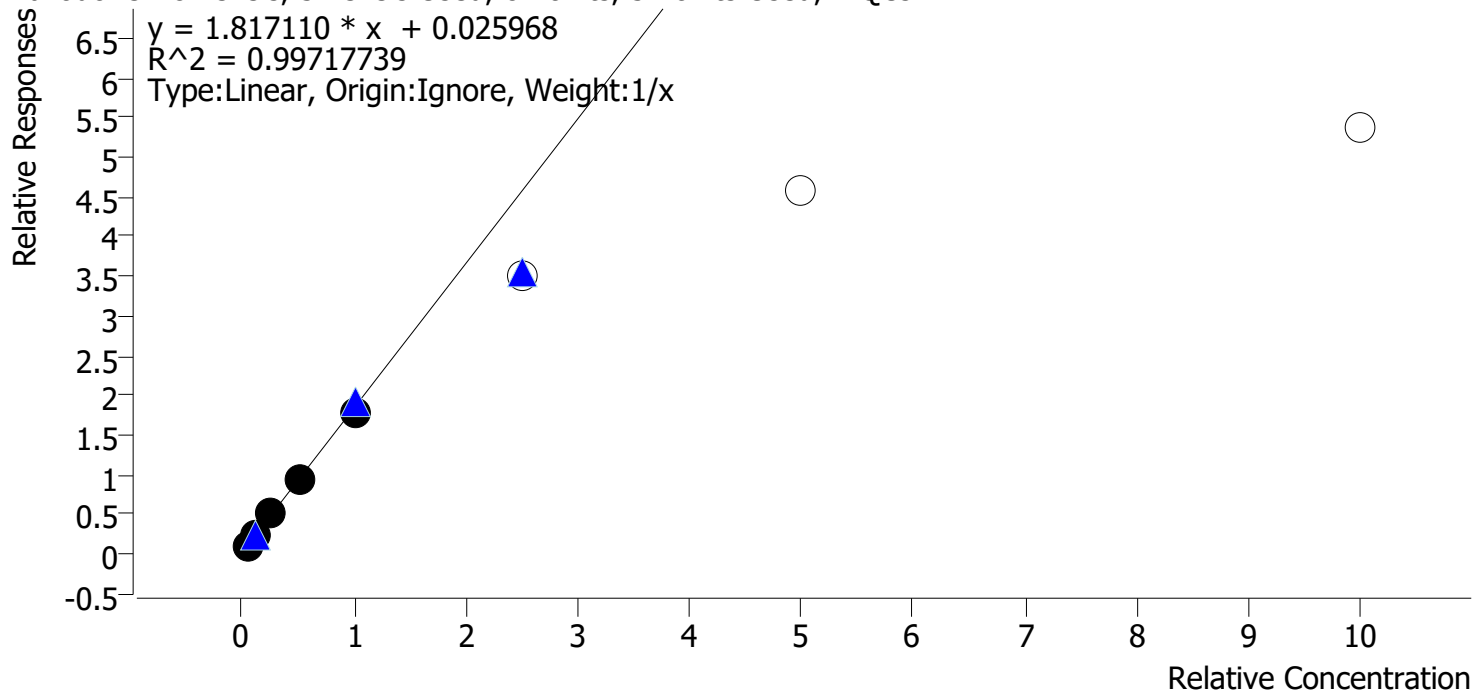
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.9
cal 2	2	✓	10.0	10.5	105.0
cal 3	3	✓	25.0	26.2	105.0
cal 4	4	✓	50.0	52.4	104.8
cal 5	5	✓	100.0	105.2	105.2
cal 6	6	✓	250.0	255.2	102.1
cal 7	7	✓	500.0	480.8	96.2
cal 8	8	✓	1000.0	859.5	86.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Trazodone

Internal Standard Trazodone-D6

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



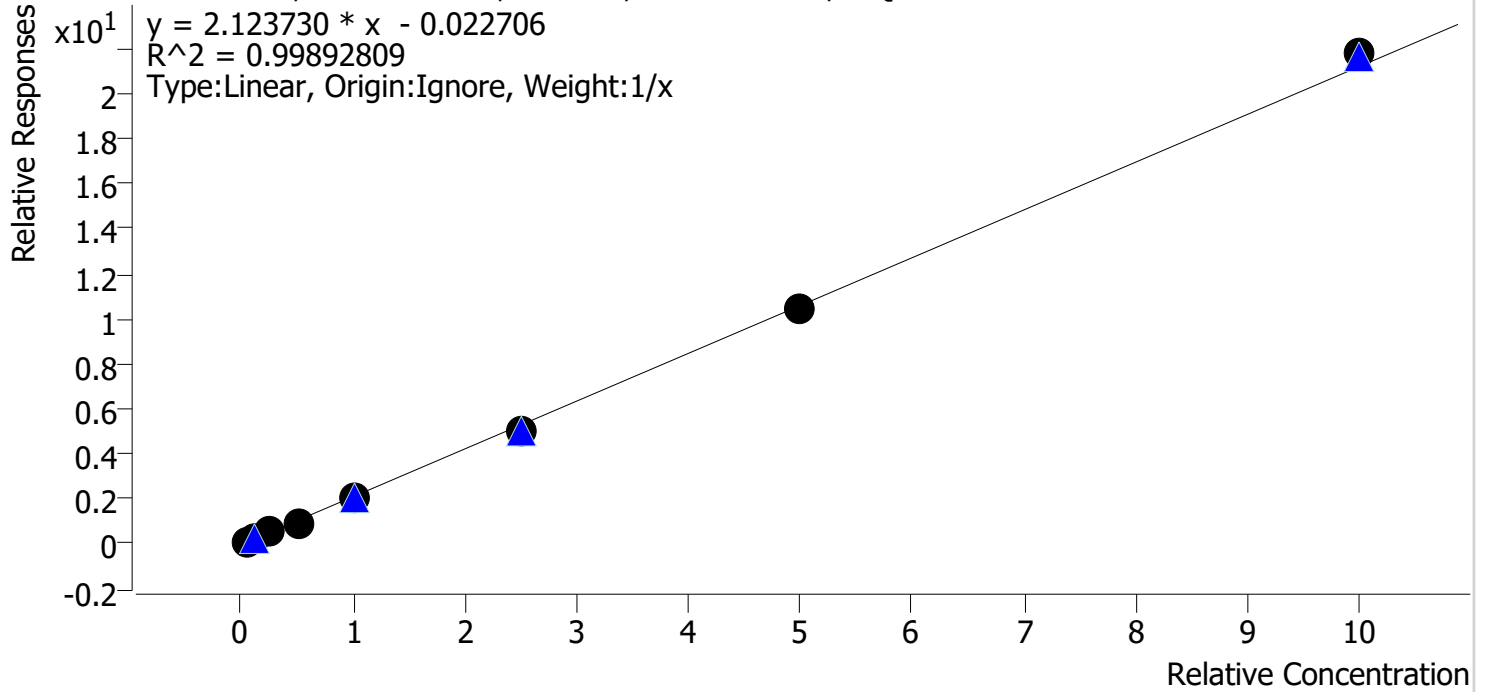
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.4	87.2
cal 2	2	✓	10.0	10.7	106.7
cal 3	3	✓	25.0	26.6	106.5
cal 4	4	✓	50.0	51.2	102.5
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✗	250.0	191.4	76.6
cal 7	7	✗	500.0	250.6	50.1
cal 8	8	✗	1000.0	295.2	29.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 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	5.7	113.7
cal 2	2	✓	10.0	10.4	104.0
cal 3	3	✓	25.0	24.0	95.9
cal 4	4	✓	50.0	46.6	93.3
cal 5	5	✓	100.0	96.6	96.6
cal 6	6	✓	250.0	239.0	95.6
cal 7	7	✓	500.0	490.4	98.1
cal 8	8	✓	1000.0	1027.2	102.7

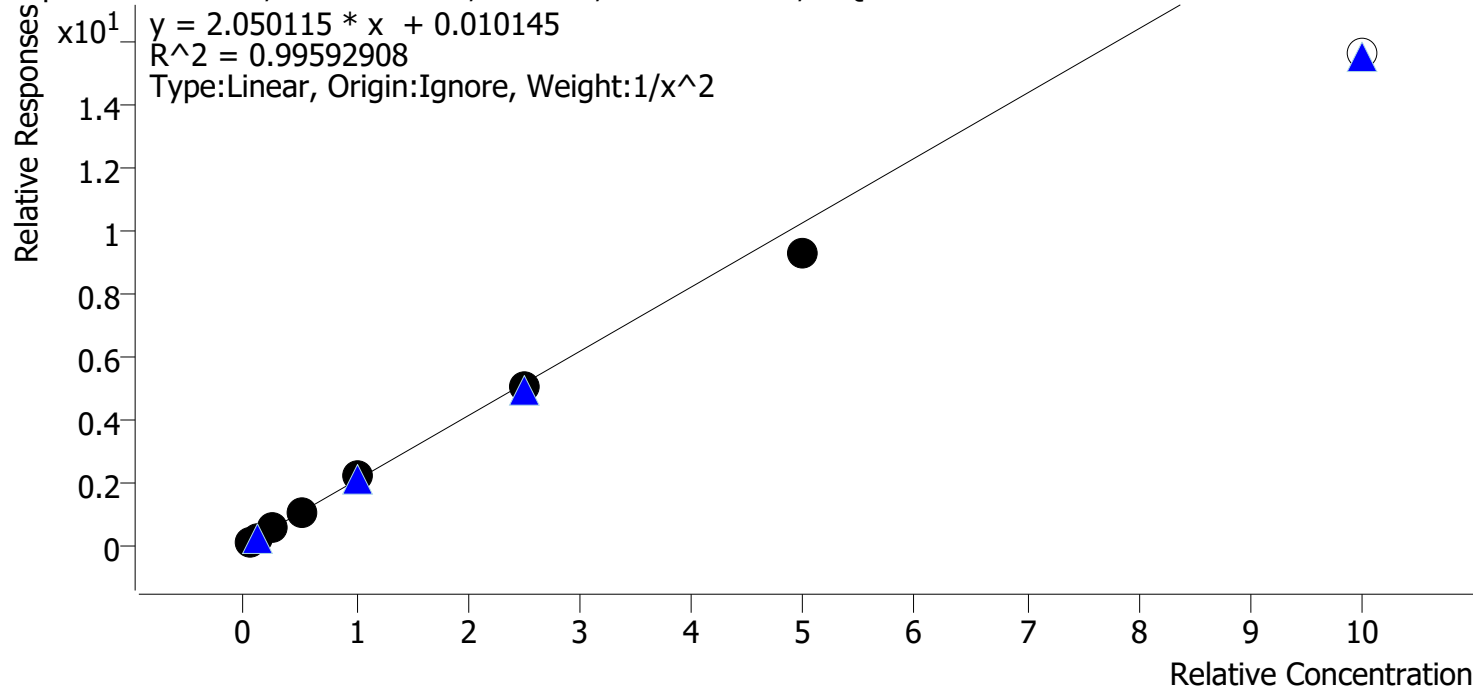
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin
Last Cal. Update 6/12/2019 10:11 AM
Analyst Name ISP\datastor
Analyte Zolpidem

Internal Standard Zolpidem-D6

Zolpidem - 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	4.8	96.6
cal 2	2	✓	10.0	10.4	104.2
cal 3	3	✓	25.0	26.2	104.9
cal 4	4	✓	50.0	51.0	102.1
cal 5	5	✓	100.0	104.6	104.6
cal 6	6	✓	250.0	242.4	97.0
cal 7	7	✓	500.0	453.2	90.6
cal 8	8	x	1000.0	761.7	76.2

AM #28 Multi-Drug Quant. Results

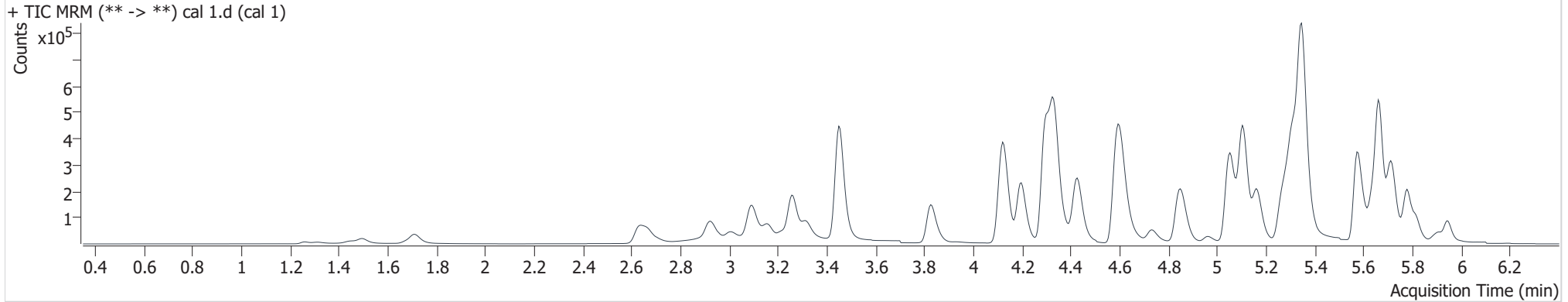
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\am28_061019\QuantResults\mdq.batch.bin
6/12/2019 10:11:58 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-A1
Injection Volume 2
Acq. Date-Time 6/10/2019 5:14:58 PM
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	3.229	975	231.6	79.8	1210.8	66399	0.489 ng/ml
7-aminoclonazepam	4.343	11566	21567.0	84.8	18080.0	95024	5.122 ng/ml
a-hydroxyalprazolam	5.704	1000	113.7	62.2	869.1	9790	4.870 ng/ml
alpha-PVP	4.438	65433	18005.5	52.9	442.8	581073	4.880 ng/ml
Alprazolam	5.777	19192	510.3	108.8	2243.6	131395	5.064 ng/ml
Amphetamine	3.162	67111	628.4	54.1	289.6	192946	4.608 ng/ml
Benzoylcegonine	3.961	1118	208.9	9.0	223.0	7295	5.137 ng/ml
Buprenorphine	5.944	881	771.0	13.6	89.7	68576	0.499 ng/ml
Bupropion	4.870	75232	22781.4	58.9	915.4	530680	4.869 ng/ml
Carisoprodol	5.728	16251	20924.7	60.1	162.5	165550	4.941 ng/ml
Citalopram	5.287	47530	3656.1	46.3	30872.7	417799	4.658 ng/ml
Clonazepam	5.633	2814	4765.0	28.7	1353.0	9248	4.857 ng/ml
Cocaine	4.332	62387	2460.6	42.8	67.9	1057555	5.179 ng/ml
Codeine	2.709	6056	104.0	115.2	254.0	59381	4.955 ng/ml
Cyclobenzaprine	5.640	47296	15490.0	11.3	312.4	357405	4.985 ng/ml
Dextromethorphan	5.326	36567	324.6	75.9	19525.3	356417	5.021 ng/ml
Dextrorphan	4.197	23135	34544.1	213.3	37304.3	549701	5.081 ng/ml
Diazepam	5.947	13794	629.1	87.3	3576.1	132570	4.253 ng/ml

cal 1

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.667	18311	49360.4	64.2	3818.2	201808	4.715 ng/ml
Diphenhydramine	5.352	163178	1431.6	33.6	437.9	1631899	5.623 ng/ml
Doxylamine	4.614	154776	289.3	99.8	10286.1	1379124	4.915 ng/ml
EDDP	5.310	23527	21638.3	239.8	6884.6	550801	4.926 ng/ml
Fentanyl	5.179	4850	241.1	83.5	10432.2	495455	0.490 ng/ml
Fluoxetine	5.710	55722	3585.1	8.6	5249.3	417792	4.595 ng/ml
Hydrocodone	3.119	17405	356.0	38.6	77.1	210313	3.925 ng/ml
Hydromorphone	1.718	13144	528.2	78.5	31.9	107319	4.896 ng/ml
Ketamine	4.132	43891	7487.0	37.8	624.3	411538	4.785 ng/ml
Lamotrigine	4.396	4780	606.1	92.6	854.1	549701	4.559 ng/ml
Lorazepam	5.750	1951	83.0	60.9	11.9	131395	5.779 ng/ml
Meprobamate	4.988	5961	80.3	31.4	126.9	56509	4.808 ng/ml
Methadone	5.664	96705	2063.2	47.1	22076.5	988202	5.120 ng/ml
Methamphetamine	3.319	30860	117.7	273.5	164.0	484940	4.741 ng/ml
Metoprolol	4.384	14327	336.4	100.4	500.5	165550	5.094 ng/ml
Mirtazapine	4.732	85323	954.2	47.9	13613.3	988202	3.877 ng/ml
Mitragynine	5.307	13567	14598.8	37.0	609.9	988202	4.832 ng/ml
Norbuprenorphine	5.065	119	143.0	91.1	124.3	7524	0.414 ng/ml
Nordiazepam	5.897	5202	4152.3	60.8	3472.2	33930	4.890 ng/ml
Norfentanyl	4.147	8001	218.9	40.8	104.1	658512	0.508 ng/ml
Norhydrocodone	3.166	1254	42.7	39.6	291.8	49917	9.981 ng/ml
Noroxycodone	3.027	11828	13.8	41.0	60.1	91234	4.188 ng/ml
O-desmethyl-tramadol	3.455	114886	585.4	6.6	1269.2	1053378	5.133 ng/ml
Oxazepam	5.763	2089	16.5	73.7	21.5	16466	4.750 ng/ml
Oxycodone	2.945	27098	1093.2	30.1	12.3	265515	4.519 ng/ml
Phentermine	3.864	20929	77.5	4.9	39.0	406387	4.722 ng/ml
Promethazine	5.573	77497	382.8	32.2	214.1	659129	5.171 ng/ml
Quetiapine	5.611	57905	1176.6	60.2	58748.3	156943	4.997 ng/ml
Sertraline	5.782	24468	1363.8	100.8	25465.2	222138	4.965 ng/ml
Temazepam	5.819	14305	387.9	29.1	29.5	131521	4.975 ng/ml
Tramadol	4.309	123506	13288.0	3.6	86.3	1153601	4.793 ng/ml
Trazodone	5.328	49616	56672.4	75.9	7058.3	471591	4.361 ng/ml
Venlafaxine	5.110	99255	1148.2	38.5	379.4	1012492	5.685 ng/ml
Zolpidem	5.072	101842	127258.2	29.9	7846.6	932670	4.831 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

Calibration Last Update

6/12/2019 10:11:58 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-B1

Injection Volume

2

Acq. Date-Time

6/10/2019 5:25:48 PM

Sample Info.

Data File

cal 2.d

Sample

cal 2

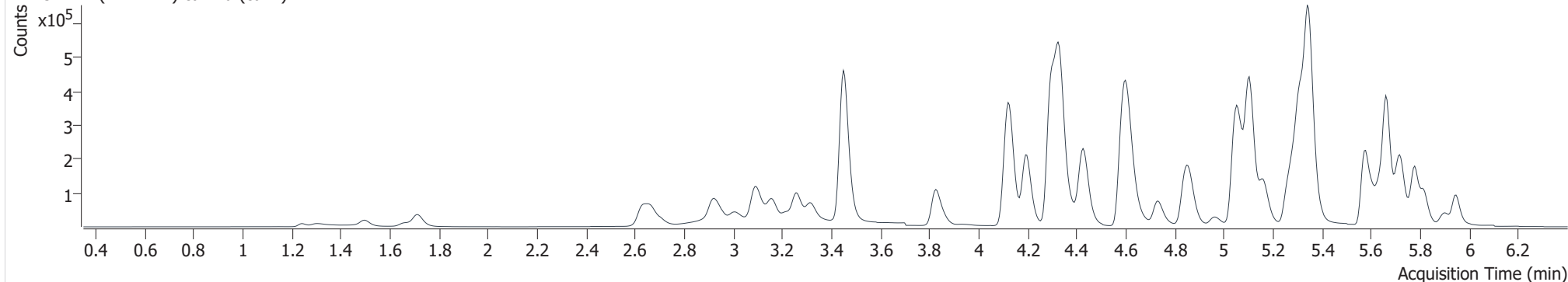
Operator

Anne Nord

Comment

Sample Chromatogram

+ TIC MRM (** -> **) cal 2.d (cal 2)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.229	1861	1597.8	75.7	895.6	56340	1.060 ng/ml
7-aminoclonazepam	4.343	23896	37348.6	83.7	247.6	97399	9.892 ng/ml
a-hydroxyalprazolam	5.709	2230	146.8	53.9	1856.6	10847	10.520 ng/ml
alpha-PVP	4.438	108327	645.4	52.1	868.1	473383	10.117 ng/ml
Alprazolam	5.777	42124	1616.2	109.5	2413.5	131645	10.868 ng/ml
Amphetamine	3.162	90169	244.2	52.5	409.2	129538	10.978 ng/ml
Benzoyllecgonine	3.961	2151	12.8	9.7	∞	7520	9.689 ng/ml
Buprenorphine	5.939	1056	771.4	15.5	177.8	46968	0.960 ng/ml
Bupropion	4.865	117511	394.5	59.9	836.4	406440	10.341 ng/ml
Carisoprodol	5.733	36031	2056.6	56.8	102.0	174915	10.269 ng/ml
Citalopram	5.287	63619	389.2	46.5	73.6	276940	9.979 ng/ml
Clonazepam	5.633	6216	481.3	31.2	240.0	9598	10.700 ng/ml
Cocaine	4.332	101828	9673.4	42.9	14558.6	867347	10.430 ng/ml
Codeine	2.709	11502	546.8	105.5	2105.4	52882	10.304 ng/ml
Cyclobenzaprine	5.640	50408	58589.2	10.7	470.5	191552	9.993 ng/ml
Dextromethorphan	5.326	43647	893.7	77.6	47583.9	215630	9.933 ng/ml
Dextrorphan	4.197	35919	83145.0	218.7	105826.9	427056	10.040 ng/ml
Diazepam	5.952	31088	2115.0	84.1	23038.5	136366	10.341 ng/ml

cal 2

Generated at 10:18 AM on 6/12/2019

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.667	33290	386.4	64.8	997.0	177642	10.692 ng/ml
Diphenhydramine	5.347	213850	1715.4	34.8	1276.1	1042721	10.408 ng/ml
Doxylamine	4.614	255746	1415.5	98.7	1589.5	1107974	10.176 ng/ml
EDDP	5.310	39115	650.0	235.8	368.8	444601	10.340 ng/ml
Fentanyl	5.173	6364	938.2	75.1	7326.4	296811	1.061 ng/ml
Fluoxetine	5.710	53598	3159.4	8.9	4652.5	196391	9.894 ng/ml
Hydrocodone	3.119	30172	359.0	39.1	783.4	177949	9.819 ng/ml
Hydromorphone	1.723	25612	414.9	74.0	2355.4	94239	10.361 ng/ml
Ketamine	4.132	83724	593.0	36.9	259.6	385667	10.500 ng/ml
Lamotrigine	4.391	9664	308.7	87.3	1512.2	427056	11.514 ng/ml
Lorazepam	5.755	3995	87.5	62.3	29.6	131645	10.907 ng/ml
Meprobamate	4.983	12805	70.2	30.4	298.6	59049	10.504 ng/ml
Methadone	5.664	123675	12211.1	46.6	1738.3	600778	10.265 ng/ml
Methamphetamine	3.319	27126	22.7	245.2	975.9	231926	10.578 ng/ml
Metoprolol	4.384	24910	1582.6	95.6	1402.7	174915	9.315 ng/ml
Mirtazapine	4.732	132954	3204.9	46.6	18229.3	600778	10.549 ng/ml
Mitragynine	5.307	18323	25665.2	38.5	711.8	600778	10.601 ng/ml
Norbuprenorphine	5.060	170	205.4	87.4	7.6 Low	5280	1.217 ng/ml
Nordiazepam	5.897	12011	1760.6	61.2	2520.3	38072	10.383 ng/ml
Norfentanyl	4.147	13699	488.3	40.6	195.3	554807	0.993 ng/ml
Norhydrocodone	3.166	2051	168.5	41.0	2216.4	41105	13.002 ng/ml
Noroxycodone	3.022	20253	365.2	40.7	160.6	75316	9.758 ng/ml
O-desmethyl-tramadol	3.455	216374	23275.0	6.7	1979.7	969609	10.248 ng/ml
Oxazepam	5.763	4881	106.2	77.8	77.7	18758	10.440 ng/ml
Oxycodone	2.945	53603	941.0	28.2	1536.3	238883	10.338 ng/ml
Phentermine	3.864	30739	123.6	5.1	77.6	291925	10.614 ng/ml
Promethazine	5.573	84317	865.3	31.7	863.4	347580	10.261 ng/ml
Quetiapine	5.611	88831	1628.8	58.4	70593.6	121351	9.995 ng/ml
Sertraline	5.782	24641	19002.3	102.7	34115.2	109569	10.074 ng/ml
Temazepam	5.819	31226	937.7	32.3	35.8	142612	10.091 ng/ml
Tramadol	4.309	214289	20278.6	3.6	152.9	1017181	10.496 ng/ml
Trazodone	5.323	79064	46489.8	79.0	67041.7	359619	10.670 ng/ml
Venlafaxine	5.110	166878	10024.3	40.8	1485.0	841895	10.403 ng/ml
Zolpidem	5.072	204613	1225.8	31.3	26685.2	914233	10.422 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

Calibration Last Update

6/12/2019 10:11:58 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-C1

Injection Volume

2

Acq. Date-Time

6/10/2019 5:36:35 PM

Sample Info.**Data File**

cal 3.d

Sample

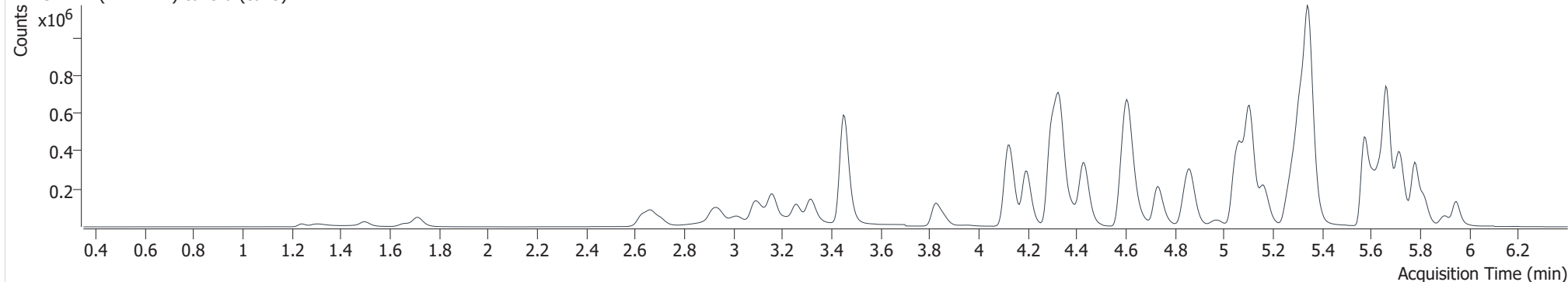
cal 3

Operator

Anne Nord

Comment**Sample Chromatogram**

+ TIC MRM (** -> **) cal 3.d (cal 3)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.229	4462	7622.9	74.2	3324.1	57372	2.450 ng/ml
7-aminoclonazepam	4.343	57931	83130.3	85.9	77291.0	95899	23.733 ng/ml
a-hydroxyalprazolam	5.709	5307	969.0	62.4	4201.3	11142	25.317 ng/ml
alpha-PVP	4.438	285156	6317.7	52.4	16298.7	512306	24.884 ng/ml
Alprazolam	5.777	100521	2494.9	107.5	6772.4	139289	24.275 ng/ml
Amphetamine	3.162	255131	1573.0	53.2	944.0	158673	27.656 ng/ml
Benzoylcegonine	3.961	5467	41.9	7.2	521.0	7692	24.258 ng/ml
Buprenorphine	5.939	3691	843.3	15.1	805.0	63186	2.678 ng/ml
Bupropion	4.865	337319	7360.4	58.6	7549.5	479145	25.747 ng/ml
Carisoprodol	5.728	86163	3933.6	58.3	1364.4	171157	24.966 ng/ml
Citalopram	5.287	206287	9081.7	47.8	234.4	366518	25.267 ng/ml
Clonazepam	5.633	14739	14224.9	34.2	4308.9	10283	24.064 ng/ml
Cocaine	4.332	245533	452748.4	43.6	125297.7	887692	24.742 ng/ml
Codeine	2.704	27830	225.6	106.9	24681.6	53424	24.354 ng/ml
Cyclobenzaprine	5.640	209164	67540.1	10.8	849.3	320094	24.936 ng/ml
Dextromethorphan	5.326	148920	6674.5	78.0	257.3	293209	24.964 ng/ml
Dextrorphan	4.197	95281	2807.8	213.1	280176.0	454982	24.828 ng/ml
Diazepam	5.952	74916	3313.3	83.9	4063.2	137866	25.837 ng/ml

cal 3

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.667	81270	48172.7	63.7	308.1	180436	26.956 ng/ml
Diphenhydramine	5.347	677114	6931.4	34.1	11127.6	1372830	23.527 ng/ml
Doxylamine	4.609	670379	98640.5	97.8	40653.2	1163156	25.506 ng/ml
EDDP	5.310	96102	19192.6	230.5	3620.9	455034	25.075 ng/ml
Fentanyl	5.179	23376	882.9	75.1	15481.6	468301	2.455 ng/ml
Fluoxetine	5.710	238335	31206.9	8.7	2157.8	347486	25.576 ng/ml
Hydrocodone	3.119	74739	708.1	39.4	17.8	184828	25.766 ng/ml
Hydromorphone	1.718	62653	3815.1	74.1	1131.7	91990	25.343 ng/ml
Ketamine	4.132	208451	8464.7	38.2	1913.3	397495	26.404 ng/ml
Lamotrigine	4.391	23923	1508.2	87.7	12667.1	454982	26.464 ng/ml
Lorazepam	5.755	9931	164.6	59.7	32.4	139289	24.457 ng/ml
Meprobamate	4.983	31452	15768.1	30.2	89.9	60562	25.976 ng/ml
Methadone	5.664	433788	5817.4	46.6	2014.5	855192	24.624 ng/ml
Methamphetamine	3.319	73336	454.6	252.6	130.5	281533	26.292 ng/ml
Metoprolol	4.384	61292	56238.2	96.7	3132.2	171157	25.615 ng/ml
Mirtazapine	4.732	396757	590.2	47.2	60334.8	855192	22.545 ng/ml
Mitragynine	5.302	64415	73909.0	38.3	1657.5	855192	26.019 ng/ml
Norbuprenorphine	5.065	486	365.1	88.6	298.1	7221	2.932 ng/ml
Nordiazepam	5.897	30011	14617.8	60.9	16984.2	39759	25.266 ng/ml
Norfentanyl	4.147	34358	7111.2	40.4	427.2	560481	2.412 ng/ml
Norhydrocodone	3.166	5731	148.2	40.9	213.0	44336	22.682 ng/ml
Noroxycodone	3.022	51118	1099.9	41.4	956.7	77146	25.506 ng/ml
O-desmethyl-tramadol	3.455	539629	35534.3	6.5	5163.7	991922	24.632 ng/ml
Oxazepam	5.763	11819	151.7	70.2	83.4	18909	26.009 ng/ml
Oxycodone	2.945	131826	1743.2	29.5	2591.2	245533	25.204 ng/ml
Phentermine	3.864	84027	140.6	5.0	76.5	327401	27.192 ng/ml
Promethazine	5.573	351232	305574.4	32.1	3624.3	593160	24.497 ng/ml
Quetiapine	5.611	277755	10958.8	59.3	239010.7	151937	25.083 ng/ml
Sertraline	5.782	108159	140232.1	100.9	136774.4	190576	25.332 ng/ml
Temazepam	5.819	80062	2230.2	31.4	260.2	148117	25.020 ng/ml
Tramadol	4.309	519787	64628.0	3.5	1148.2	1046486	26.240 ng/ml
Trazodone	5.323	249031	514423.5	77.9	467.6	488506	26.625 ng/ml
Venlafaxine	5.110	437365	1013.1	39.4	2073.8	898681	23.985 ng/ml
Zolpidem	5.072	507116	817087.0	31.1	1815.0	925669	26.227 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

Calibration Last Update

6/12/2019 10:11:58 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-D1

Injection Volume

2

Acq. Date-Time

6/10/2019 5:47:23 PM

Sample Info.**Data File**

cal 4.d

Sample

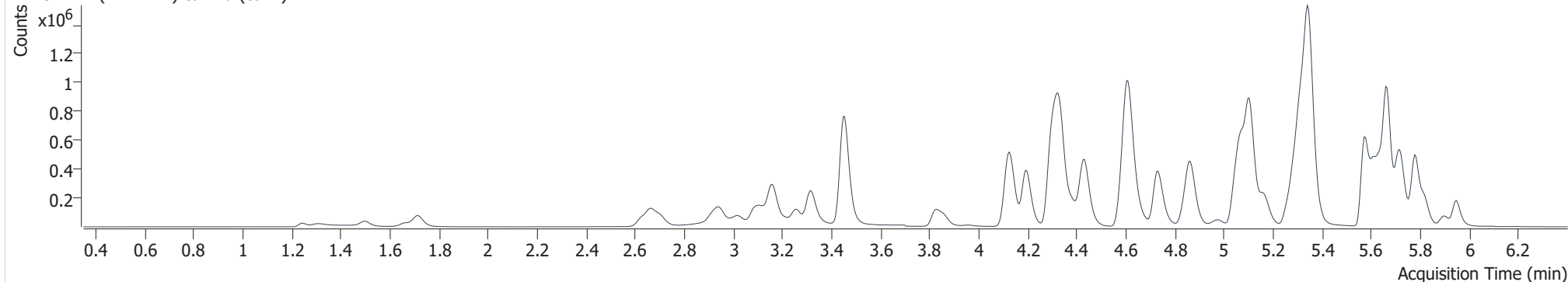
cal 4

Operator

Anne Nord

Comment**Sample Chromatogram**

+ TIC MRM (** -> **) cal 4.d (cal 4)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.229	8765	3648.8	74.8	10988.9	57075	4.804 ng/ml
7-aminoclonazepam	4.343	107601	18386.9	85.8	118642.6	89643	46.736 ng/ml
a-hydroxyalprazolam	5.709	10016	357.1	57.3	5129.5	10972	49.172 ng/ml
alpha-PVP	4.438	534308	32369.9	52.8	238989.4	484466	49.494 ng/ml
Alprazolam	5.777	186805	4594.9	111.5	2035.5	130721	47.883 ng/ml
Amphetamine	3.163	472044	2909.1	53.5	2456.1	153052	54.659 ng/ml
Benzoylcegonine	3.961	10489	12367.9	8.7	702.9	7519	47.737 ng/ml
Buprenorphine	5.939	6639	357.8	16.8	923.3	59416	5.226 ng/ml
Bupropion	4.865	627039	1439.9	59.8	17168.3	451409	51.185 ng/ml
Carisoprodol	5.733	158565	120399.1	58.7	1052.8	159623	49.177 ng/ml
Citalopram	5.287	377989	29423.5	47.5	193.3	335840	51.091 ng/ml
Clonazepam	5.633	27315	27694.4	35.5	374.9	9400	49.115 ng/ml
Cocaine	4.332	457739	25173.9	43.0	81548.1	850674	48.251 ng/ml
Codeine	2.704	53017	8252.5	105.1	350.0	50078	49.253 ng/ml
Cyclobenzaprine	5.640	392213	494919.2	10.6	1168.6	300303	49.922 ng/ml
Dextromethorphan	5.326	270894	235070.0	75.6	478.9	272781	48.838 ng/ml
Dextrorphan	4.197	179939	203187.0	214.7	256307.3	434742	48.960 ng/ml
Diazepam	5.947	137632	4929.8	85.1	10775.1	131140	50.701 ng/ml

cal 4

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.667	155136	43611.5	64.5	2149.7	177204	53.239 ng/ml
Diphenhydramine	5.347	1244338	3590.9	34.1	6655.6	1227929	47.209 ng/ml
Doxylamine	4.609	1274556	66706.2	97.5	145353.1	1108964	50.927 ng/ml
EDDP	5.310	152837	5347.4	235.0	13891.9	374202	48.663 ng/ml
Fentanyl	5.179	43482	8740.3	78.2	46816.8	445156	4.794 ng/ml
Fluoxetine	5.710	455226	26226.7	8.9	54314.5	337936	50.685 ng/ml
Hydrocodone	3.119	141628	3029.2	39.8	1227.7	176876	52.682 ng/ml
Hydromorphone	1.718	124685	7037.4	72.7	10513.8	92272	49.875 ng/ml
Ketamine	4.132	395751	1658.5	38.3	2667.2	385350	52.412 ng/ml
Lamotrigine	4.391	45002	2610.2	86.7	3487.4	434742	51.888 ng/ml
Lorazepam	5.755	18547	281.4	56.6	67.4	130721	47.810 ng/ml
Meprobamate	4.983	60675	65405.3	29.9	1310.6	59664	51.427 ng/ml
Methadone	5.664	802038	17522.8	46.0	6955.9	783998	49.195 ng/ml
Methamphetamine	3.319	146251	506.6	252.0	1518.7	278007	55.368 ng/ml
Metoprolol	4.384	116519	6304.5	96.1	8261.9	159623	53.717 ng/ml
Mirtazapine	4.732	729182	460347.0	47.2	2189.9	783998	45.590 ng/ml
Mitragynine	5.307	110853	129576.5	38.8	738.7	783998	48.747 ng/ml
Norbuprenorphine	5.060	785	47.8	100.4	731.8	6641	5.422 ng/ml
Nordiazepam	5.897	56331	5315.5	63.1	41155.6	38101	49.777 ng/ml
Norfentanyl	4.147	66336	6937.1	40.8	352.9	542869	4.772 ng/ml
Norhydrocodone	3.166	12982	239.5	39.5	320.4	43677	43.167 ng/ml
Noroxycodone	3.022	100375	1830.8	41.3	880.2	74337	53.011 ng/ml
O-desmethyl-tramadol	3.455	1032262	920.0	6.6	6456.7	960029	48.447 ng/ml
Oxazepam	5.763	20527	658.4	72.7	177.2	17658	48.940 ng/ml
Oxycodone	2.945	253914	1262.4	29.0	8214.3	237108	50.604 ng/ml
Phentermine	3.864	153223	478.4	4.7	146.3	307475	53.664 ng/ml
Promethazine	5.573	668651	5117.6	31.6	4296.6	563171	48.734 ng/ml
Quetiapine	5.611	517650	8352.6	58.2	363663.1	143005	49.747 ng/ml
Sertraline	5.783	203437	22074.6	101.1	243195.8	180688	50.195 ng/ml
Temazepam	5.819	152058	1318.0	30.3	418.5	141193	49.923 ng/ml
Tramadol	4.309	1006876	123821.3	3.5	363.2	1035527	52.421 ng/ml
Trazodone	5.323	444421	432.4	77.6	145278.8	464395	51.236 ng/ml
Venlafaxine	5.110	832348	59601.4	39.0	5617.2	859926	46.646 ng/ml
Zolpidem	5.072	975088	476968.3	31.1	714.8	923032	51.034 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

Calibration Last Update

6/12/2019 10:11:58 AM

Instrument

69679

Type

Cal

Acq. Method

mdq p1 cda 121818.m

Sample Position

P2-E1

Injection Volume

2

Acq. Date-Time

6/10/2019 5:58:10 PM

Sample Info.

Data File

cal 5.d

Sample

cal 5

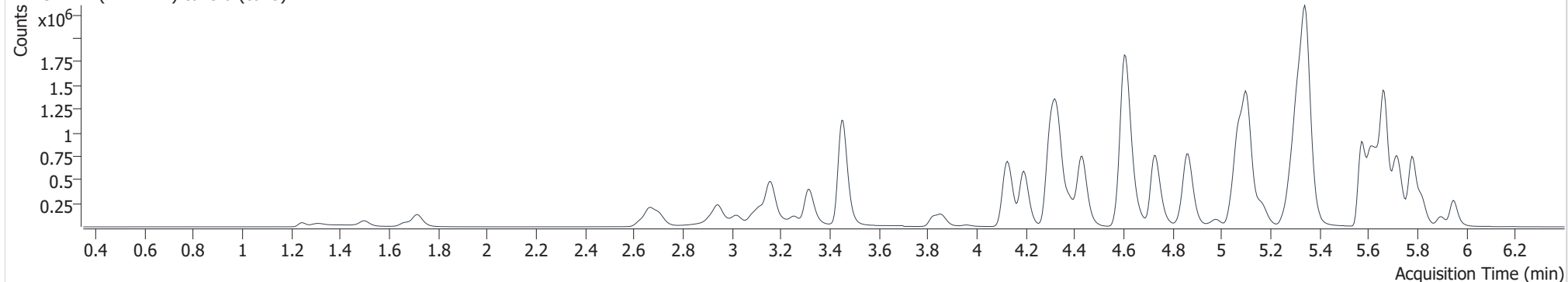
Operator

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	3.224	17298	17048.1	76.8	1308.8	54901	9.821 ng/ml
7-aminoclonazepam	4.343	193374	15673.5	85.3	883.3	79850	93.859 ng/ml
a-hydroxyalprazolam	5.709	19075	6650.4	57.2	7872.7	10586	97.755 ng/ml
alpha-PVP	4.433	1050941	129380.7	52.8	20548.6	465007	101.627 ng/ml
Alprazolam	5.777	349927	263.8	111.5	4868.5	118377	98.847 ng/ml
Amphetamine	3.162	812143	4062.9	53.1	644.7	139415	104.798 ng/ml
Benzoylcegonine	3.956	21344	17912.8	7.5	230.4	7613	96.064 ng/ml
Buprenorphine	5.939	12391	1316.7	16.6	3581.3	55545	10.549 ng/ml
Bupropion	4.865	1218069	11571.2	59.5	22713.0	440187	102.358 ng/ml
Carisoprodol	5.733	302399	235901.9	58.9	3867.6	147983	101.066 ng/ml
Citalopram	5.287	711940	4080.1	47.6	224035.0	316785	102.579 ng/ml
Clonazepam	5.633	52506	33232.2	32.4	4148.7	8571	103.891 ng/ml
Cocaine	4.327	879757	51880.1	43.2	29323.2	799461	98.807 ng/ml
Codeine	2.704	101819	57762.5	103.9	3491.9	46580	101.446 ng/ml
Cyclobenzaprine	5.640	706430	570674.3	10.6	2018.7	268850	100.517 ng/ml
Dextromethorphan	5.321	493233	2268.0	75.4	416190.7	232935	104.164 ng/ml
Dextrorphan	4.192	351281	3242.4	218.5	75330.7	413269	100.426 ng/ml
Diazepam	5.947	262534	8081.4	84.9	4534.4	120932	105.794 ng/ml

cal 5

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.667	300068	75086.6	65.1	47931.7	174699	105.314 ng/ml
Diphenhydramine	5.347	2359941	270558.9	34.4	8313.6	1131782	96.009 ng/ml
Doxylamine	4.609	2615606	134341.3	97.0	91297.8	1103427	105.103 ng/ml
EDDP	5.310	321444	290152.1	239.0	52264.9	384715	99.740 ng/ml
Fentanyl	5.173	87770	5396.8	74.9	69535.8	421957	10.195 ng/ml
Fluoxetine	5.710	784740	98301.8	8.9	47117.1	287794	103.078 ng/ml
Hydrocodone	3.119	285508	992.3	39.3	834.0	172696	110.577 ng/ml
Hydromorphone	1.718	246831	2127.5	73.9	17119.8	89444	101.425 ng/ml
Ketamine	4.127	774191	444690.9	38.3	1442.4	377433	105.415 ng/ml
Lamotrigine	4.391	83177	4792.0	86.9	4901.0	413269	100.681 ng/ml
Lorazepam	5.755	33733	1537.8	57.2	152.1	118377	95.147 ng/ml
Meprobamate	4.983	121842	65103.8	29.9	355.0	58202	106.487 ng/ml
Methadone	5.664	1524278	77696.4	46.1	34346.6	736219	99.095 ng/ml
Methamphetamine	3.319	239510	2250.3	252.8	2837.2	235484	109.126 ng/ml
Metoprolol	4.379	214147	1226.8	96.0	5163.4	147983	107.911 ng/ml
Mirtazapine	4.727	1463699	1406.7	47.0	264053.8	736219	97.899 ng/ml
Mitragynine	5.302	204754	6661.6	39.2	73028.7	736219	95.778 ng/ml
Norbuprenorphine	5.060	1456	232.3	109.4	276.3	6316	10.916 ng/ml
Nordiazepam	5.897	106757	11243.2	60.1	18978.4	34921	103.249 ng/ml
Norfentanyl	4.147	127872	24487.0	40.6	1671.9	505468	9.839 ng/ml
Norhydrocodone	3.166	31196	4335.7	40.6	3139.8	43449	94.480 ng/ml
Noroxycodone	3.022	192045	2363.2	36.7	2334.9	70587	107.824 ng/ml
O-desmethyl-tramadol	3.455	2036633	319991.4	6.5	617.0	923382	99.122 ng/ml
Oxazepam	5.763	36202	1061.7	72.6	211.8	15264	100.544 ng/ml
Oxycodone	2.945	514110	2266.8	29.3	1835.7	236622	103.017 ng/ml
Phentermine	3.858	276635	429.0	4.8	131.0	283912	105.807 ng/ml
Promethazine	5.573	1232846	10722.8	31.5	5591.5	504459	99.908 ng/ml
Quetiapine	5.611	1002629	17860.3	58.8	756139.0	136392	101.110 ng/ml
Sertraline	5.782	338781	100449.1	101.7	570415.9	149082	101.250 ng/ml
Temazepam	5.819	292508	6891.4	31.2	1846.2	134147	101.155 ng/ml
Tramadol	4.303	1935554	209001.0	3.5	975.1	1002228	105.204 ng/ml
Trazodone	5.323	825039	872.8	77.4	833.9	460784	97.107 ng/ml
Venlafaxine	5.105	1653857	108755.5	39.0	10862.4	814907	96.632 ng/ml
Zolpidem	5.072	1948261	904.4	30.0	84702.9	904538	104.566 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results

Calibration Last Update

D:\MassHunter\Data\2019\am28 061019\QuantResults\mdq.batch.bin

6/12/2019 10:11:58 AM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

69679

Cal

mdq p1 cda 121818.m

P2-F1

2

6/10/2019 6:08:58 PM

Data File

Sample

Operator

Comment

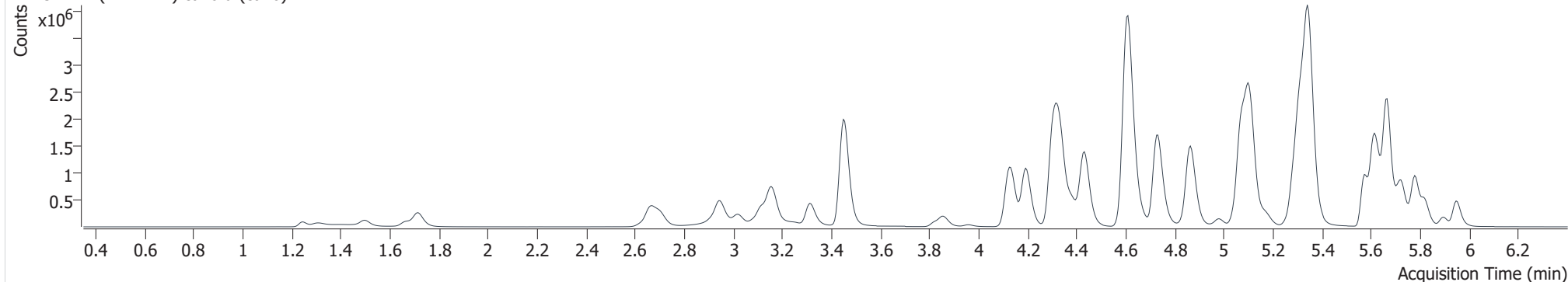
cal 6.d

cal 6

Anne Nord

Sample Chromatogram

+ TIC MRM (** -> **) cal 6.d (cal 6)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.224	40240	2014.1	75.8	2079.4	50837	24.623 ng/ml
7-aminoclonazepam	4.343	342926	30176.7	85.4	281754.4	54043	245.240 ng/ml
a-hydroxyalprazolam	5.704	45009	1494.4	57.8	2518.7	9708	252.656 ng/ml
alpha-PVP	4.433	2256047	17899.5	52.5	2292.3	403017	252.003 ng/ml
Alprazolam	5.777	712014	261.0	109.7	3264.0	97133	244.839 ng/ml
Amphetamine	3.157	1252423	4355.8	52.7	322.4	98296	231.301 ng/ml
Benzoyllecgonine	3.956	49737	72852.5	7.6	100.3	6823	249.945 ng/ml
Buprenorphine	5.939	23504	26283.8	15.9	1172.0	43152	25.923 ng/ml
Bupropion	4.865	2549506	1178.6	59.0	918.3	374955	252.091 ng/ml
Carisoprodol	5.728	625820	356668.0	58.5	6601.9	127193	243.220 ng/ml
Citalopram	5.287	1440866	2632.4	47.0	1117.5	260010	253.763 ng/ml
Clonazepam	5.633	109170	145117.7	33.2	32191.0	6827	271.721 ng/ml
Cocaine	4.327	1844886	5711.5	43.0	3737.3	681813	243.138 ng/ml
Codeine	2.704	207771	12592.7	104.8	24841.9	39447	244.112 ng/ml
Cyclobenzaprine	5.640	816182	84231.8	10.6	2078.4	123608	252.717 ng/ml
Dextromethorphan	5.321	860241	8317.6	76.9	416965.8	171725	246.463 ng/ml
Dextrorphan	4.192	795245	144460.0	214.4	50522.1	373838	251.158 ng/ml
Diazepam	5.947	534991	25729.2	85.0	23277.1	102253	256.180 ng/ml

cal 6

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.662	645220	97649.8	64.2	41931.8	165166	240.664 ng/ml
Diphenhydramine	5.347	4999333	3840.6	33.5	35429.8	938255	243.672 ng/ml
Doxylamine	4.609	6003369	2785.8	97.5	6118.2	1047213	254.275 ng/ml
EDDP	5.310	757407	558163.5	238.0	26872.0	364069	248.612 ng/ml
Fentanyl	5.179	157647	35985.6	73.8	85833.2	307639	25.101 ng/ml
Fluoxetine	5.710	687672	24589.5	8.7	21039.1	102411	254.525 ng/ml
Hydrocodone	3.119	638337	2114.0	40.2	1214.0	161997	265.902 ng/ml
Hydromorphone	1.718	563662	2747350.2	73.8	3830.9	83212	248.360 ng/ml
Ketamine	4.127	1659739	659.2	37.9	711.5	335366	255.378 ng/ml
Lamotrigine	4.391	155925	6165.9	85.8	1448.5	373838	208.413 ng/ml
Lorazepam	5.750	65494	2547.6	58.3	348.6	97133	223.952 ng/ml
Meprobamate	4.983	260561	270880.2	29.9	218.7	52645	252.566 ng/ml
Methadone	5.664	3156595	14803.3	45.8	43858.6	612181	246.111 ng/ml
Methamphetamine	3.314	255817	4827.2	261.1	1365.4	120069	231.031 ng/ml
Metoprolol	4.379	410825	1937.3	95.8	5375.5	127193	242.640 ng/ml
Mirtazapine	4.732	3330552	190636.1	46.3	260402.6	612181	268.579 ng/ml
Mitragynine	5.302	278854	362619.9	40.1	2079.3	612181	156.799 ng/ml
Norbuprenorphine	5.055	2697	2509.6	98.8	3044.4	5079	25.608 ng/ml
Nordiazepam	5.897	214831	217904.9	61.4	5459.0	29371	247.452 ng/ml
Norfentanyl	4.147	275230	1478.9	40.8	6292.5	426692	25.031 ng/ml
Norhydrocodone	3.161	80581	2119.2	41.2	298.8	41562	243.375 ng/ml
Noroxycodone	3.022	418546	7559.3	41.9	628.8	65101	256.157 ng/ml
O-desmethyl-tramadol	3.450	4461101	344163.7	6.4	22028.4	803617	249.107 ng/ml
Oxazepam	5.763	68682	947.3	75.2	594.3	11917	245.283 ng/ml
Oxycodone	2.945	1234786	2036.6	29.1	22771.3	228261	256.988 ng/ml
Phentermine	3.858	485565	160.5	4.7	103.6	225212	235.239 ng/ml
Promethazine	5.573	1519191	2297.3	31.6	7305.3	255845	242.198 ng/ml
Quetiapine	5.611	2342760	2494.2	58.6	1304505.0	131144	245.827 ng/ml
Sertraline	5.782	239941	22449.1	101.1	13275.2	43367	246.431 ng/ml
Temazepam	5.819	631312	2608.2	30.6	1147.2	117830	248.660 ng/ml
Tramadol	4.303	4104035	697647.2	3.5	1395.0	881494	255.174 ng/ml
Trazodone	5.323	1523136	745.1	77.3	521265.1	434743	191.379 ng/ml
Venlafaxine	5.110	3595808	275253.6	38.8	992.9	711612	239.002 ng/ml
Zolpidem	5.072	4166868	238923.6	30.2	12314.1	836671	242.433 ng/ml

AM #28 Multi-Drug Quant. Results

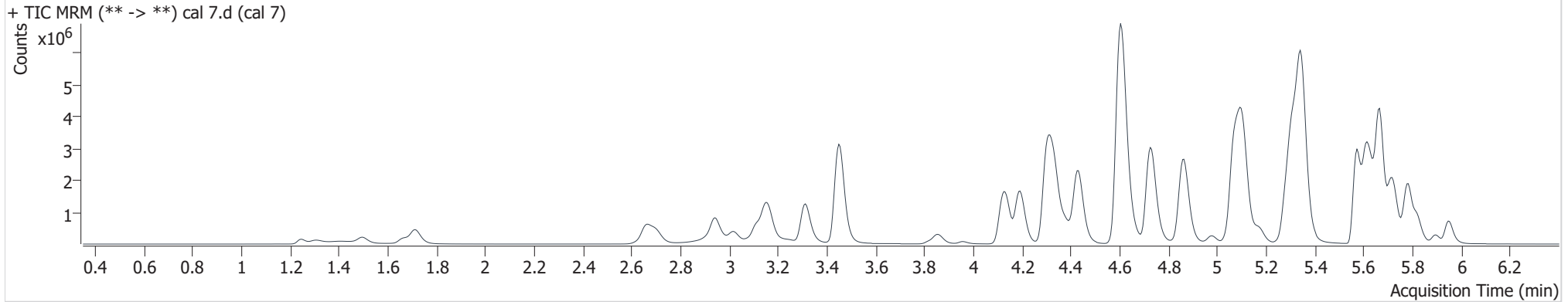
Batch results
Calibration Last Update

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Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-G1
Injection Volume 2
Acq. Date-Time 6/10/2019 6:19:45 PM
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	3.224	76489	26882.7	76.3	117673.2	46471	51.165 ng/ml
7-aminoclonazepam	4.343	479687	62987.1	86.5	36933.8	35719	518.547 ng/ml
a-hydroxyalprazolam	5.704	75058	2547.3	57.5	894.4	8041	509.356 ng/ml
alpha-PVP	4.433	4058805	39217.7	52.0	3727.6	361390	505.788 ng/ml
Alprazolam	5.777	1146989	8100.0	111.2	13442.1	77246	495.763 ng/ml
Amphetamine	3.157	2364939	633.8	52.8	814.8	106605	404.020 ng/ml
Benzoylcegonine	3.956	108105	45498.1	8.0	11290.9	7476	495.918 ng/ml
Buprenorphine	5.939	47480	32061.5	16.5	9039.8	47273	47.898 ng/ml
Bupropion	4.865	4841746	7651.6	58.4	17407.2	369086	486.723 ng/ml
Carisoprodol	5.733	902926	166991.9	57.7	7259.0	85708	520.664 ng/ml
Citalopram	5.282	2437286	5078.6	46.6	11479.5	221467	504.512 ng/ml
Clonazepam	5.633	138349	2725.4	33.3	61188.9	5005	469.893 ng/ml
Cocaine	4.327	3040666	391777.3	42.7	250077.0	550440	496.501 ng/ml
Codeine	2.704	350352	674.1	104.1	885.3	32641	497.213 ng/ml
Cyclobenzaprine	5.640	2455773	3155153.0	10.6	3723.6	189961	494.864 ng/ml
Dextromethorphan	5.321	1406781	11954.5	76.6	488120.7	141976	487.530 ng/ml
Dextrorphan	4.192	1339674	2105.8	214.2	466067.9	316825	499.126 ng/ml
Diazepam	5.952	844251	9167.9	86.6	10302.2	83076	498.403 ng/ml

cal 7

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.662	1075248	96319.4	65.4	97083.3	160081	414.444 ng/ml
Diphenhydramine	5.347	8196635	7106.8	32.7	4468.8	746689	500.871 ng/ml
Doxylamine	4.604	10952135	4020.7	97.0	332397.8	976743	497.411 ng/ml
EDDP	5.310	1475996	35459.1	239.6	284046.4	354673	497.499 ng/ml
Fentanyl	5.173	436723	74514.5	76.4	434582.2	432116	49.495 ng/ml
Fluoxetine	5.710	2864013	205367.3	8.7	267346.6	211253	514.369 ng/ml
Hydrocodone	3.114	1174716	1303.4	39.5	5346.4	156501	508.050 ng/ml
Hydromorphone	1.713	1041370	3051995.0	74.0	28910.5	77749	490.688 ng/ml
Ketamine	4.127	2860018	4822.0	37.9	1043.9	309993	476.714 ng/ml
Lamotrigine	4.391	229957	26808.7	87.0	881.1	316825	362.514 ng/ml
Lorazepam	5.750	102510	4720.4	59.4	664.9	77246	439.935 ng/ml
Meprobamate	4.983	482443	436577.6	29.9	33506.0	51794	475.841 ng/ml
Methadone	5.664	6068023	47608.2	45.3	23283.4	579135	499.630 ng/ml
Methamphetamine	3.314	782833	3543.9	255.3	2272.6	179275	475.840 ng/ml
Metoprolol	4.379	600527	47290.1	94.9	4223.1	85708	528.047 ng/ml
Mirtazapine	4.727	6075401	575596.2	46.4	20832.3	579135	518.245 ng/ml
Mitragynine	5.302	604994	1377.2	41.3	246893.2	579135	359.456 ng/ml
Norbuprenorphine	5.050	4809	16.3	101.7	3804.9	5082	45.910 ng/ml
Nordiazepam	5.897	358786	14112.9	61.0	251089.1	24664	492.446 ng/ml
Norfentanyl	4.147	457223	35946.1	40.1	6796.1	339704	52.192 ng/ml
Norhydrocodone	3.161	138771	565.7	40.4	810.8	34850	492.549 ng/ml
Noroxycodone	3.017	756401	1145.9	41.1	5715.2	58119	519.564 ng/ml
O-desmethyl-tramadol	3.450	7862281	199780.4	6.2	50534.7	700505	503.402 ng/ml
Oxazepam	5.763	105345	2045.4	73.0	1332.7	9046	496.297 ng/ml
Oxycodone	2.940	2201493	4499.5	29.0	3045.0	211567	494.647 ng/ml
Phentermine	3.858	826665	512.9	4.6	1917.9	216607	417.107 ng/ml
Promethazine	5.573	5299090	1621299.3	31.0	7959.5	425043	508.096 ng/ml
Quetiapine	5.611	3952102	5988422.0	56.6	855883.8	100578	540.817 ng/ml
Sertraline	5.782	987037	475925.5	102.1	600312.8	87756	500.900 ng/ml
Temazepam	5.819	1102122	9076.5	30.8	1405.4	102532	498.948 ng/ml
Tramadol	4.303	6850798	564628.2	3.4	15914.4	782483	480.825 ng/ml
Trazodone	5.323	2015177	58553.1	78.0	93880.9	440048	250.589 ng/ml
Venlafaxine	5.105	5959278	211872.5	38.8	4370.4	573436	490.407 ng/ml
Zolpidem	5.072	7389138	311106.0	29.9	16060.9	794455	453.182 ng/ml

AM #28 Multi-Drug Quant. Results

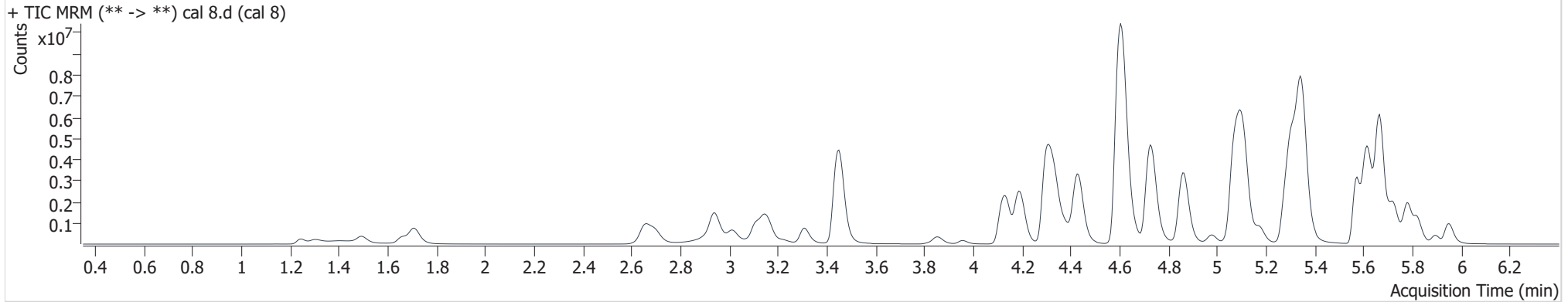
Batch results
Calibration Last Update

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6/12/2019 10:11:58 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-H1
Injection Volume 2
Acq. Date-Time 6/10/2019 6:41:14 PM
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	3.219	143674	226595.2	75.6	4072.0	43333	103.032 ng/ml
7-aminoclonazepam	4.343	555651	21577.8	86.6	36561.8	18718	1145.734 ng/ml
a-hydroxyalprazolam	5.704	137569	6755.5	57.3	1981.4	7737	990.985 ng/ml
alpha-PVP	4.433	6285535	231083.2	51.5	226066.6	285631	991.208 ng/ml
Alprazolam	5.782	1728717	177.9	109.3	4064.0	56997	1012.462 ng/ml
Amphetamine	3.152	2328121	11069.2	52.2	564.8	59006	719.933 ng/ml
Benzoylcegonine	3.956	246168	366392.1	8.0	22754.7	7497	1126.359 ng/ml
Buprenorphine	5.939	67710	73861.4	15.5	1315.8	36939	87.509 ng/ml
Bupropion	4.865	6313194	2628053.3	58.6	3235.9	251139	933.064 ng/ml
Carisoprodol	5.728	1468723	797635.2	59.2	8403.0	74224	977.885 ng/ml
Citalopram	5.277	3604675	1398.8	46.9	341904.3	167322	988.151 ng/ml
Clonazepam	5.633	207073	1073.8	33.0	25168.2	3714	948.142 ng/ml
Cocaine	4.327	4605575	288773.1	41.7	1407.0	408706	1012.953 ng/ml
Codeine	2.699	560831	50571.6	105.6	73756.6	25121	1033.939 ng/ml
Cyclobenzaprine	5.635	2262506	167173.0	10.3	3801.4	86436	1002.066 ng/ml
Dextromethorphan	5.321	1776525	5123.1	75.3	1398433.6	85320	1024.517 ng/ml
Dextrorphan	4.192	2184313	255322.3	218.4	1364.6	257710	1000.381 ng/ml
Diazepam	5.952	1253967	12254.9	84.6	7961.7	62268	988.492 ng/ml

cal 8

Generated at 10:18 AM on 6/12/2019



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.657	1752362	147702.2	64.8	79132.6	155983	693.782 ng/ml
Diphenhydramine	5.347	11872194	6041.4	33.3	53481.7	534342	1012.680 ng/ml
Doxylamine	4.604	17886438	1721345.3	97.7	24800.4	883938	897.686 ng/ml
EDDP	5.305	2710267	264311.4	244.6	184714.2	318450	1017.624 ng/ml
Fentanyl	5.173	812213	167223.6	75.8	818523.8	396095	100.409 ng/ml
Fluoxetine	5.710	1703736	187472.9	8.7	182998.9	66172	977.278 ng/ml
Hydrocodone	3.109	2080633	1613.8	39.0	4447.6	146426	963.278 ng/ml
Hydromorphone	1.708	1889506	13634.9	74.0	19623.9	70282	984.498 ng/ml
Ketamine	4.127	4484495	2312.7	37.2	33806.2	269769	859.529 ng/ml
Lamotrigine	4.391	289835	6430.3	85.9	13082.3	257710	561.597 ng/ml
Lorazepam	5.750	187972	3320.0	57.5	262.3	56997	1092.015 ng/ml
Meprobamate	4.983	851252	850881.8	29.6	515.5	48699	893.483 ng/ml
Methadone	5.664	9893184	356928.2	45.9	7921.7	468745	1005.960 ng/ml
Methamphetamine	3.309	452414	4459.0	253.8	747.0	56920	867.949 ng/ml
Metoprolol	4.379	831406	6122.6	96.7	269060.8	74224	845.037 ng/ml
Mirtazapine	4.727	9880451	816302.5	46.6	179101.2	468745	1041.707 ng/ml
Mitragynine	5.296	587822	656844.8	40.8	1392.3	468745	431.481 ng/ml
Norbuprenorphine	5.050	7405	8829.5	99.0	10758.0	4164	86.604 ng/ml
Nordiazepam	5.897	551506	977516.7	61.6	305789.8	19247	970.295 ng/ml
Norfentanyl	4.147	676786	62138.6	40.2	4648.0	251440	104.337 ng/ml
Norhydrocodone	3.156	254744	2374.7	40.7	115.7	30494	1025.745 ng/ml
Noroxycodone	3.012	1278363	916.7	38.1	644.8	52987	963.991 ng/ml
O-desmethyl-tramadol	3.450	12636330	976086.2	6.2	169661.3	566675	999.909 ng/ml
Oxazepam	5.758	189896	6009.8	72.1	3287.5	8036	1007.739 ng/ml
Oxycodone	2.940	4382628	2041.3	28.5	2103.9	209519	994.683 ng/ml
Phentermine	3.853	961103	167.4	4.5	1515.7	137277	765.948 ng/ml
Promethazine	5.573	5727603	1822554.3	30.6	36748.6	233075	1001.136 ng/ml
Quetiapine	5.611	6325245	702957.7	57.1	2517522.6	93941	926.783 ng/ml
Sertraline	5.782	452735	13540.9	102.0	289.6	20523	982.387 ng/ml
Temazepam	5.819	1838640	30156.8	31.3	11576.9	85993	992.546 ng/ml
Tramadol	4.298	10442501	728166.2	3.3	13587.7	667903	859.505 ng/ml
Trazodone	5.328	2161655	922034.4	77.2	156296.4	401000	295.232 ng/ml
Venlafaxine	5.110	9093461	803420.7	37.9	146150.8	417264	1027.240 ng/ml
Zolpidem	5.072	11624175	1148817.2	30.1	462.8	743921	761.685 ng/ml