









Worklist: 3829

REVIEWED

By Britany Wylie at 12:43 pm, Nov 15, 2019

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2054	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2113	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2114	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2119	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2120	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2121	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2125	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2147	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 11/8/19 Analyst: Anne Nord
Plate lot#: 190729 (part IDP-111) Plate Expiration: 1/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA
11/15/19 0.5M Ammonium Hydroxide
Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water
11/15/19

~~A Blank Blood Lot: 19552275-1~~ Urine Blank lot: 11719 blank blood lot 19H52275-1 A

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)
LCMS-QQQ ID: 69679

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette 250µL blood (calibrated pipette) Pipette ID: 1926134 or 250µL hydrolyzed urine in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 66759
- 4. Pipette 250µL 0.5M ammonium hydroxide in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer 300µL of blood+base/urine+base mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). (Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
- 8. Wait 5 minutes.
- 9. Add 900uL ethyl acetate.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- 12. Add 900uL ethyl acetate.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID: 66819
- 16. Reconstitute in 100µL 20% MeOH and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and 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: Limited curve ranges: Buprenorphine 1-100, Metoprolol 5-500, Lorazepam 25-1000, Lamotrigine 5-500
Norhydrocodone 10-1000, Norbuprenorphine 2.5-100

Calibrator level 7 did not inject on the first injection, the calibrator was re-injected and used in analysis.



Toxicology AM method 25 urine external control prep
working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline
Stock solution 1mg/ml 100 ul each in 9600ul meOH

ppd 5/20/19: Exp: 5/20/20 lot 52020 by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25 control 30 ul working solution (52020) in 270 ul negative urine

ppd 10/7/19, exp 3/1/20 lot 10719 negative urine lot 8919 by AMN

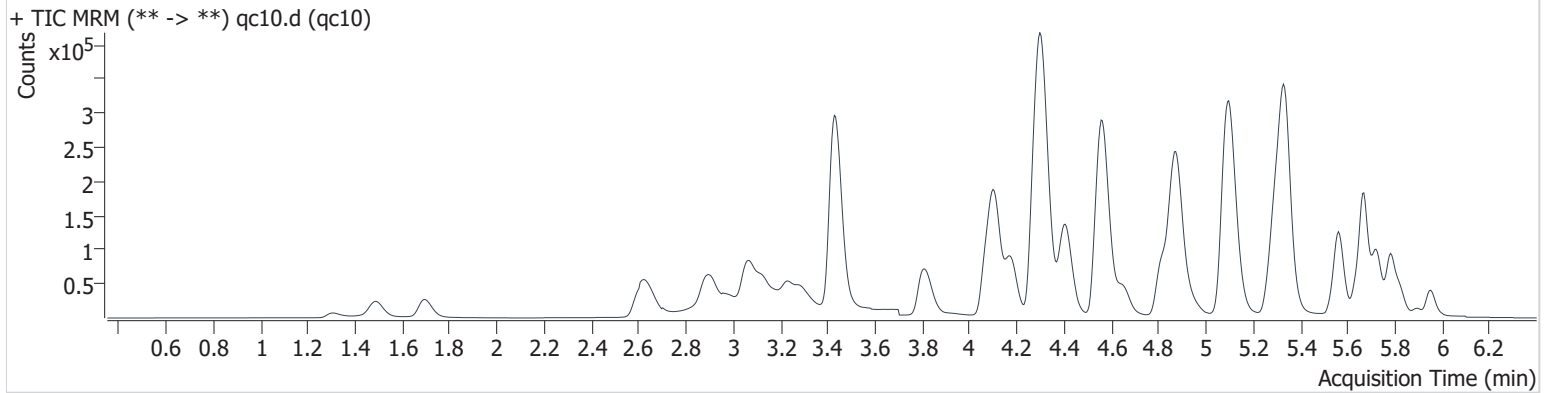
Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 **Data File** qc10.d
Type QC **Sample** qc10
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-A2 **Comment**
Injection Volume 2
Acq. Date-Time 11/9/2019 11:07:40 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	1669	181.4	78.3	2023.2	50401	0.908 ng/ml
7-aminoclonazepam	4.318	23136	1953.0	80.2	238.3	94499	10.540 ng/ml
a-hydroxyalprazolam	5.714	1020	891.2	67.0	833.9	6090	8.530 ng/ml
alpha-PVP	4.412	76056	622.9	53.0	411.9	338227	9.836 ng/ml
Alprazolam	5.787	24310	165.2	111.8	1283.9	87110	10.161 ng/ml
Amphetamine	3.137	70269	284.7	53.6	180.9	133384	10.429 ng/ml
Benzoylcegonine	3.946	2061	2026.4	6.8	238.6	5923	11.478 ng/ml
Buprenorphine	5.709	563	263.6	17.0	108.4	20972	1.190 ng/ml
Bupropion	4.835	64085	1267.9	58.6	417.3	249361	10.239 ng/ml
Carisoprodol	5.738	17790	1090.0	56.2	197.5	82245	10.247 ng/ml
Citalopram	5.277	38962	1170.7	45.9	1464.7	170181	10.047 ng/ml
Clonazepam	5.638	3126	881.5	36.2	239.8	6018	9.050 ng/ml
Cocaine	4.312	71782	2875.6	45.3	5611.8	576315	9.983 ng/ml
Codeine	2.668	10216	268.3	106.3	197.8	49843	10.466 ng/ml
Cyclobenzaprine	5.640	28107	1060.3	8.4	503.3	102986	10.810 ng/ml
Dextromethorphan	5.316	18863	1204.1	77.9	12177.0	85721	10.542 ng/ml
Dextrorphan	4.182	18159	10807.8	215.9	2061.2	202706	10.395 ng/ml
Diazepam	5.957	15475	2622.2	85.3	1934.2	74551	10.130 ng/ml
Dihydrocodeine	2.642	26357	336.5	62.6	278.1	146905	10.308 ng/ml
Diphenhydramine	5.342	120056	1442.6	34.1	1365.4	653087	10.384 ng/ml
Doxylamine	4.574	190448	3043.8	97.3	6423.3	827175	9.829 ng/ml
EDDP	5.305	31021	3112.3	242.5	1042.4	355715	10.184 ng/ml
Fentanyl	5.127	3182	2499.7	69.4	1333.7	152903	1.061 ng/ml
Fluoxetine	5.721	26806	4307.7	9.2	2401.7	100919	10.848 ng/ml
Hydrocodone	3.089	25261	526.2	38.5	229.9	146163	8.530 ng/ml
Hydromorphone	1.703	19735	2227.2	73.3	1350.9	74239	9.797 ng/ml
Ketamine	4.092	65053	5168.6	37.1	93.7	311783	10.107 ng/ml
Lamotrigine	4.355	7159	1058.8	88.4	3168.0	82245	9.773 ng/ml
Lorazepam	5.761	1374	57.7	58.7	13.4	87110	9.855 ng/ml
Meprobamate	4.968	9292	9187.3	27.9	32.2	44214	9.992 ng/ml
Methadone	5.669	66925	1569.0	47.2	19472.7	322405	10.374 ng/ml
Methamphetamine	3.299	48260	40.7	44.8	16.8	145116	10.124 ng/ml
Metoprolol	4.369	17742	751.9	95.8	924.5	82245	10.174 ng/ml

qc10

ocr = outside curve range

Generated at 4:07 PM on 11/13/2019

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ocr 11-13-19



AM #28 Multi-Drug Quant. Results

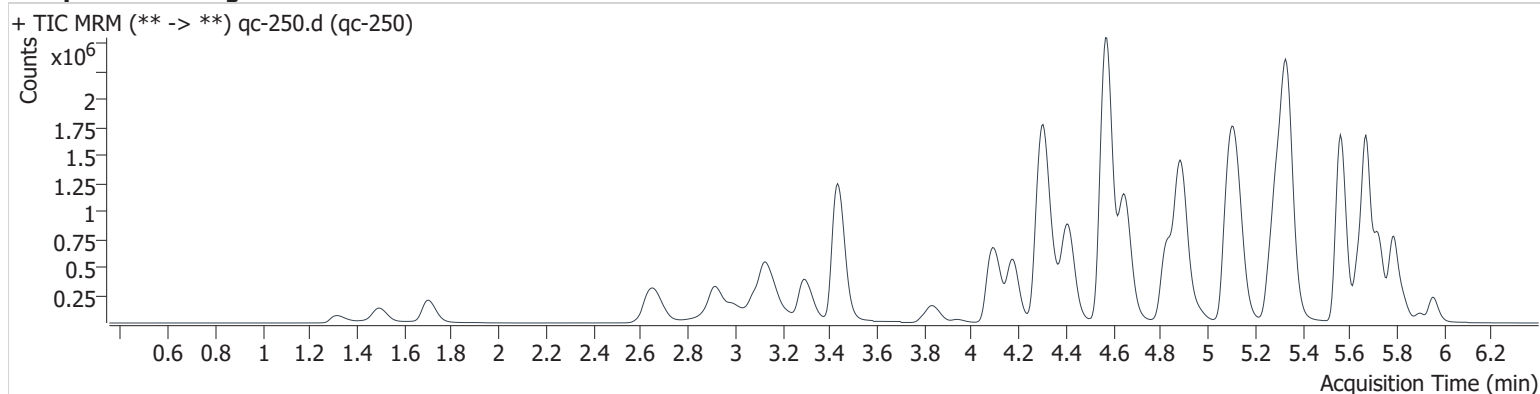
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	86031	4875.0	46.6	1821.5	322405	10.223 ng/ml
Mitragynine	5.265	8583	9847.1	39.7	55.2	322405	11.095 ng/ml
Morphine	1.312	4007	529.8	23.3	189.2	6092	9.006 ng/ml
Nordiazepam	5.902	5638	5495.9	58.7	3124.2	18088	10.936 ng/ml
Norfentanyl	4.137	9422	306.9	39.4	164.7	431192	0.959 ng/ml
Norhydrocodone	3.135	1209	186.2	37.5	28.1	44252	10.316 ng/ml
Noroxycodone	2.997	17848	494.6	42.7	213.1	66207	9.862 ng/ml
O-desmethyl-tramadol	3.435	165725	5385.9	6.4	611.9	872181	10.326 ng/ml
Oxazepam	5.768	1779	55.1	75.4	17.7	9505	10.326 ng/ml
Oxycodone	2.920	47893	203.9	29.9	468.0	235698	10.195 ng/ml
Oxymorphone	1.495	20996	80771.2	45.5	346.8	86799	9.649 ng/ml
Phentermine	3.843	22249	24.4	6.2	23.5	258385	9.708 ng/ml
Promethazine	5.568	44143	21413.0	30.7	803.9	180798	11.091 ng/ml
Quetiapine	5.555	56005	4433.0	59.1	2161.4	79946	10.563 ng/ml
Sertraline	5.788	13988	418.3	109.0	1452.7	64174	10.412 ng/ml
Temazepam	5.829	13043	330.0	28.8	43.1	61377	10.496 ng/ml
Tramadol	4.298	173631	1081.9	3.6	15.4	861953	10.670 ng/ml
Trazodone	5.122	56209	2709.7	78.8	4887.3	235594	10.420 ng/ml
Venlafaxine	5.093	128931	3584.8	39.3	90.9	682696	10.147 ng/ml
Zolpidem	4.888	163898	2524.8	30.6	485.1	688492	10.138 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	qc-250.d
Type	QC	Sample	qc-250
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-C2	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 11:18:29 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	38199	1882.8	73.2	1241.6	41461	25.856 ng/ml
7-aminoclonazepam	4.313	284466	10254.9	83.4	15878.6	56667	238.091 ng/ml
a-hydroxyalprazolam	5.714	21047	528.2	57.5	150.7	4777	242.535 ng/ml
alpha-PVP	4.412	1723195	4544.4	52.5	3751.3	304561	243.069 ng/ml
Alprazolam	5.787	467685	913.8	111.0	2632.9	66823	253.965 ng/ml
Amphetamine	3.137	1369267	665.0	50.7	6093.2	113584	255.054 ng/ml
Benzoylcegonine	3.941	49788	138.6	8.3	5807.4	6124	265.542 ng/ml
Buprenorphine	5.703	16638	18369.1	14.9	3789.5	24216	27.164 ng/ml
Bupropion	4.830	1483568	18804.7	60.7	1680.9	246235	256.653 ng/ml
Carisoprodol	5.738	310207	260425.5	58.1	1246.3	57943	260.410 ng/ml
Citalopram	5.277	1200368	1754.2	46.8	251056.1	219538	252.554 ng/ml
Clonazepam	5.633	56497	36720.2	33.5	967.8	4441	243.368 ng/ml
Cocaine	4.312	1430155	790912.5	45.3	128665.3	472513	242.545 ng/ml
Codeine	2.668	190835	789.8	104.0	10054.8	38192	264.857 ng/ml
Cyclobenzaprine	5.640	1168797	2648764.8	9.5	1995.8	185392	250.781 ng/ml
Dextromethorphan	5.316	689731	11490.5	75.7	9682.2	132684	250.823 ng/ml
Dextrorphan	4.177	517119	77428.8	216.4	214820.1	232813	256.549 ng/ml
Diazepam	5.957	307803	4399.9	87.5	3148.3	60959	253.684 ng/ml
Dihydrocodeine	2.637	562754	45673.6	63.4	19060.2	139852	253.259 ng/ml
Diphenhydramine	5.342	3677142	265337.4	33.6	1139.6	800866	251.112 ng/ml
Doxylamine	4.573	4690123	214311.1	95.6	2566.5	808147	254.814 ng/ml
EDDP	5.305	753838	1157.5	235.3	13920.1	348660	253.600 ng/ml
Fentanyl	5.132	135711	95658.7	76.4	110769.8	264851	25.739 ng/ml
Fluoxetine	5.721	1069993	75694.2	8.4	51872.9	176358	263.271 ng/ml
Hydrocodone	3.089	569953	2628.5	38.6	857.8	134672	241.636 ng/ml
Hydromorphone	1.703	459095	4670.7	73.4	539.2	68882	259.341 ng/ml
Ketamine	4.092	1424489	13489.2	37.5	22668.2	283859	255.385 ng/ml
Lamotrigine	4.350	124819	980.7	90.0	3090.6	57943	284.763 ng/ml
Lorazepam	5.761	19233	434.5	57.5	198.0	66823	218.222 ng/ml
Meprobamate	4.968	188637	117159.1	29.0	17176.7	36977	246.135 ng/ml
Methadone	5.669	2506759	85151.3	47.0	142745.4	499255	246.320 ng/ml
Methamphetamine	3.294	812907	4410.4	41.0	395.6	134782	241.399 ng/ml
Metoprolol	4.369	339503	43690.9	96.5	43328.9	57943	280.999 ng/ml



AM #28 Multi-Drug Quant. Results

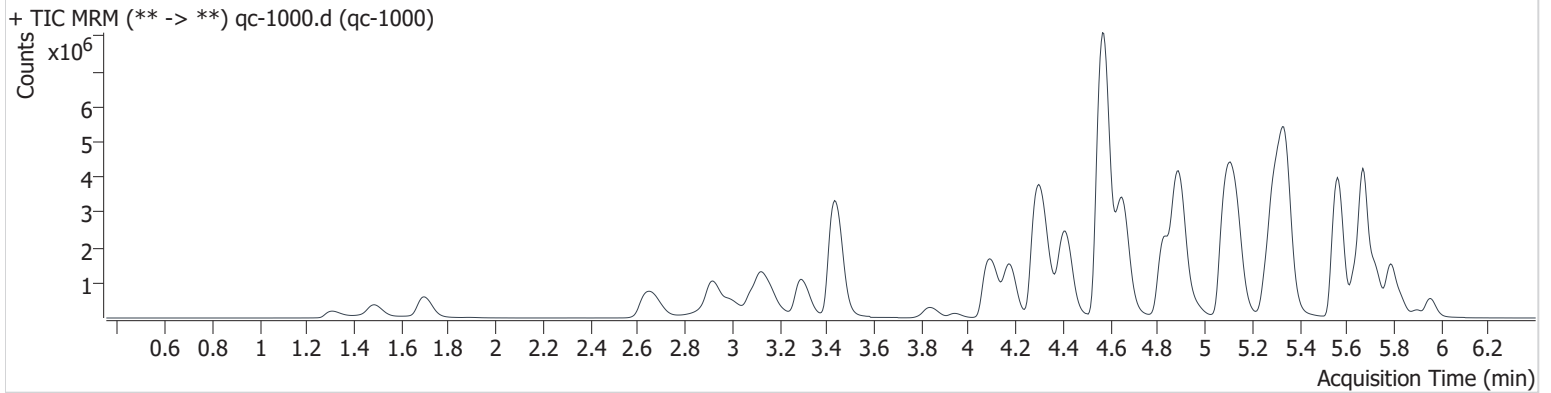
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	2606800	164315.4	45.5	7112.5	499255	207.844 ng/ml
Mitragynine	5.260	349288	256334.4	39.6	120749.8	499255	306.945 ng/ml
Morphine	1.317	97535	431080.4	21.0	103850.8	5534	246.772 ng/ml
Norbuprenorphine	5.045	2090	422.5	107.5	2039.1	4995	24.587 ng/ml
Nordiazepam	5.902	110095	112941.2	60.7	8664.3	14755	267.175 ng/ml
Norfentanyl	4.132	238907	51336.9	40.4	764.4	419640	24.804 ng/ml
Norhydrocodone	3.146	54924	303.4	41.3	1514.5	49613	257.514 ng/ml
Noroxycodone	2.997	381430	1982.7	41.8	1810.6	57912	245.607 ng/ml
O-desmethyl-tramadol	3.435	3674502	244210.8	6.3	1288.5	769332	253.452 ng/ml
Oxazepam	5.768	24799	679.6	74.1	501.4	5722	246.492 ng/ml
Oxycodone	2.915	1088055	14244.7	29.1	7445.0	211710	260.915 ng/ml
Oxymorphone	1.495	419564	756267.9	44.2	39265.9	72786	255.236 ng/ml
Phentermine	3.843	479378	809.3	5.0	410.0	229330	255.522 ng/ml
Promethazine	5.568	1942992	1695648.3	31.7	579306.7	348631	254.334 ng/ml
Quetiapine	5.550	1497625	1498.1	59.7	675729.0	94895	248.455 ng/ml
Sertraline	5.788	464703	27772.0	103.1	67751.5	91305	247.801 ng/ml
Temazepam	5.829	252886	6904.0	29.9	1037.2	48228	259.336 ng/ml
Tramadol	4.293	3506279	1211.6	3.4	3118.7	778145	258.646 ng/ml
Trazodone	5.122	1716664	1161.4	78.4	285.1	309664	252.027 ng/ml
Venlafaxine	5.093	2957383	13570.5	38.7	29986.2	622844	243.720 ng/ml
Zolpidem	4.888	3658384	2368.9	30.0	136574.6	636685	251.379 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

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 11/9/2019 11:40:05 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.209	121435	29240.7	75.4	8829.0	30734	110.958 ng/ml
7-aminoclonazepam	4.318	373335	27717.3	84.0	1417.5	22199	800.275 ng/ml
a-hydroxyalprazolam	5.714	61675	771.1	57.8	1489.0	3672	926.513 ng/ml
alpha-PVP	4.412	5716754	38916.7	52.4	47810.7	246102	997.369 ng/ml
Alprazolam	5.787	1297008	18243.6	109.9	13467.1	45716	1029.370 ng/ml
Amphetamine	3.137	3268098	13986.0	52.2	10748.6	76500	905.747 ng/ml
Benzoylcegonine	3.941	251976	309989.8	8.0	19846.8	6090	1350.859 ng/ml
Buprenorphine	5.703	39674	2466.6	15.5	1410.6	12760	122.457 ng/ml
Bupropion	4.831	5010551	2726.9	59.8	15808.7	218268	979.953 ng/ml
Carisoprodol	5.744	738151	33504.0	58.0	2403.9	35179	1021.465 ng/ml
Citalopram	5.272	2923032	197193.8	46.0	2646.1	135866	995.353 ng/ml
Clonazepam	5.633	158100	1220.3	35.1	1386.3	3595	843.712 ng/ml
Cocaine	4.317	3859020	328801.6	44.7	811.5	311369	993.162 ng/ml
Codeine	2.673	520793	9788.3	104.7	6408.5	26813	1030.718 ng/ml
Cyclobenzaprine	5.640	2673689	1473668.9	9.5	10904.6	105741	1005.950 ng/ml
Dextromethorphan	5.316	1352664	157527.5	75.6	192712.0	63438	1029.092 ng/ml
Dextrorphan	4.177	1616727	256353.5	218.8	198213.7	181138	1030.745 ng/ml
Diazepam	5.957	882611	866.6	86.0	3966.0	43746	1014.586 ng/ml
Dihydrocodeine	2.632	1619380	25630.8	62.9	1229.7	122438	834.787 ng/ml
Diphenhydramine	5.347	9535432	3922.6	33.2	88610.9	499685	1042.579 ng/ml
Doxylamine	4.574	16320322	25061.1	96.8	291549.9	736972	973.136 ng/ml
EDDP	5.305	3118280	3282.5	238.6	301410.1	352680	1037.215 ng/ml
Fentanyl	5.138	364918	2347.9	80.6	4142.0	159807	114.648 ng/ml
Fluoxetine	5.721	1889451	1729860.7	8.7	8384.8	82844	991.632 ng/ml
Hydrocodone	3.089	1941495	1217.7	38.3	679.2	119658	930.345 ng/ml
Hydromorphone	1.698	1559170	356019.5	74.1	24233.1	60232	1008.896 ng/ml
Ketamine	4.090	4599603	11557.1	37.5	41239.8	242765	965.697 ng/ml
Lamotrigine	4.350	242056	6080.7	88.4	631.4	35179	913.531 ng/ml
Lorazepam	5.761	59460	5182.1	56.6	822.0	45716	993.945 ng/ml
Meprobamate	4.968	626901	847412.8	29.1	112637.7	29433	1028.151 ng/ml
Methadone	5.669	7763625	421805.5	45.3	617190.8	377236	1009.012 ng/ml
Methamphetamine	3.294	2440099	578.9	40.5	556.2	102401	963.685 ng/ml
Metoprolol	4.369	713806	2671114.4	97.0	65667.3	35179	973.543 ng/ml

qc-1000

Generated at 4:07 PM on 11/13/2019

ocr = outside curve range

ocr 11/13/19

ocr 11/13/19



AM #28 Multi-Drug Quant. Results

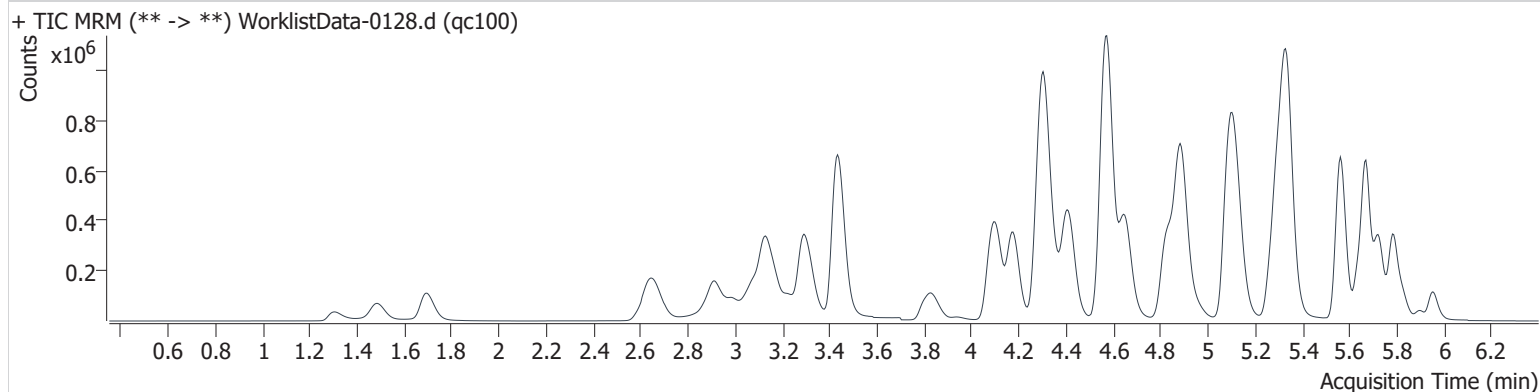
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	8245781	616835.4	45.2	365429.2	377236	871.444 ng/ml
Mitragynine	5.255	1007715	8667.5	39.2	43843.8	377236	1173.701 ng/ml
Morphine	1.307	306832	955.2	21.3	148966.5	4404	976.204 ng/ml
Norbuprenorphine	5.039	6659	6398.2	96.3	259.8	4076	98.701 ng/ml
Nordiazepam	5.902	308744	493488.6	61.5	5932.6	11031	1002.836 ng/ml
Norfentanyl	4.132	756276	89631.2	40.0	7483.5	300496	109.627 ng/ml
Norhydrocodone	3.146	192338	408.9	41.8	2485.9	39415	1121.273 ng/ml
Noroxycodone	2.997	1195392	1022.7	42.4	8828.4	47499	939.033 ng/ml
O-desmethyl-tramadol	3.435	12433581	467000.3	6.1	874.0	636052	1036.540 ng/ml
Oxazepam	5.768	75239	2729.7	72.4	1701.6	4289	998.834 ng/ml
Oxycodone	2.915	4032619	8085.8	29.4	3207.4	195967	1045.085 ng/ml
Oxymorphone	1.485	1387942	8298818.3	44.2	42017.5	63603	969.320 ng/ml
Phentermine	3.843	1173412	144.8	5.0	3264.1	162888	882.673 ng/ml
Promethazine	5.568	5105582	2832927.2	30.8	18446.5	223183	1044.129 ng/ml
Quetiapine	5.550	4311843	317087.0	58.6	1759398.9	77796	873.783 ng/ml
Sertraline	5.788	748692	713564.3	101.4	447306.0	36519	998.812 ng/ml
Temazepam	5.829	819357	16219.1	30.0	2092.3	38231	1060.016 ng/ml
Tramadol	4.283	10014735	452369.7	3.4	11021.6	583124	988.450 ng/ml
Trazodone	5.132	5106779	236898.9	78.4	1022.2	245087	948.514 ng/ml
Venlafaxine	5.088	9882439	1183.0	37.5	103263.5	504298	1004.388 ng/ml
Zolpidem	4.888	12308949	2431.4	29.3	479943.8	532395	1012.338 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	WorklistData-0128.d
Type	QC	Sample	qc100
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-B2	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 12:12:24 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	16832	270.4	73.2	223.5	48015	9.825 ng/ml
7-aminoclonazepam	4.318	165898	1053.8	83.9	2947.0	77086	101.428 ng/ml
a-hydroxyalprazolam	5.714	8717	463.8	61.2	6000.9	4952	96.480 ng/ml
alpha-PVP	4.412	742160	21101.1	52.8	1761.1	334487	95.432 ng/ml
Alprazolam	5.787	202819	1513.0	110.8	7001.6	74159	99.263 ng/ml
Amphetamine	3.137	841700	872.3	52.0	3490.4	164208	108.018 ng/ml
Benzoylcegonine	3.941	19069	14900.7	7.9	1929.0	6248	99.749 ng/ml
Buprenorphine	5.709	5404	644.1	17.7	1151.3	20659	10.425 ng/ml
Bupropion	4.835	652902	16097.5	60.3	1456.8	271543	101.978 ng/ml
Carisoprodol	5.738	146776	115863.8	58.9	880.4	71126	100.200 ng/ml
Citalopram	5.277	441678	11888.9	46.0	35367.3	202175	100.578 ng/ml
Clonazepam	5.633	26381	653.5	34.1	10449.2	5264	95.313 ng/ml
Cocaine	4.312	639590	20601.8	44.8	39260.5	529262	96.841 ng/ml
Codeine	2.668	89709	∞	106.9	2604.1	45816	103.535 ng/ml
Cyclobenzaprine	5.640	357121	2972.6	9.9	34845.2	147779	96.098 ng/ml
Dextromethorphan	5.316	274699	2208.2	74.8	23284.3	134713	98.343 ng/ml
Dextrorphan	4.177	267634	1200.8	215.8	948.4	307780	100.466 ng/ml
Diazepam	5.957	132066	2236.2	87.7	2515.8	66089	100.208 ng/ml
Dihydrocodeine	2.637	267142	21302.3	64.6	24295.8	159154	105.042 ng/ml
Diphenhydramine	5.342	1297065	3049.0	34.4	1359.9	733565	96.915 ng/ml
Doxylamine	4.574	1922410	37929.7	96.9	51814.0	847652	99.399 ng/ml
EDDP	5.305	311297	3712.7	239.0	950.3	378175	96.521 ng/ml
Fentanyl	5.132	36165	177.1	74.8	29426.6	191116	9.516 ng/ml
Fluoxetine	5.721	352992	2789.7	8.8	19323.4	147025	103.753 ng/ml
Hydrocodone	3.089	251761	1074.2	38.9	915.2	149433	95.353 ng/ml
Hydromorphone	1.698	219009	25474.0	70.2	837.3	86493	98.174 ng/ml
Ketamine	4.092	597656	50193.0	37.8	421.5	294041	103.121 ng/ml
Lamotrigine	4.350	60865	1731.2	87.7	2274.8	71126	112.030 ng/ml
Lorazepam	5.761	10111	391.1	58.4	132.1	74159	102.194 ng/ml
Meprobamate	4.968	79115	22346.8	28.9	8342.1	39623	96.243 ng/ml
Methadone	5.669	775904	27929.9	47.3	19941.6	394400	96.633 ng/ml
Methamphetamine	3.294	749029	787.0	41.1	1063.2	273790	107.655 ng/ml
Metoprolol	4.369	157693	1214.8	97.0	10512.8	71126	106.216 ng/ml



AM #28 Multi-Drug Quant. Results

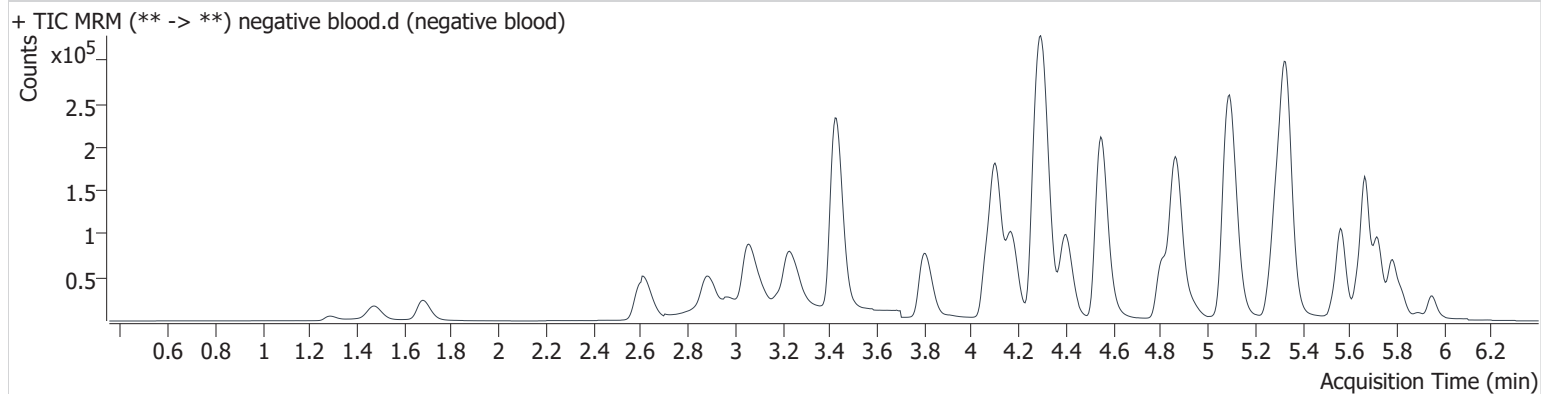
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	900684	19879.7	46.5	26411.0	394400	90.669 ng/ml
Mitragynine	5.260	101113	1344.9	39.1	56613.3	394400	112.093 ng/ml
Morphine	1.307	46824	207.4	21.5	42704.4	6508	100.620 ng/ml
Norbuprenorphine	5.055	692	538.8	91.3	531.1	3374	11.580 ng/ml
Nordiazepam	5.902	46640	5856.1	60.4	13155.7	15959	104.501 ng/ml
Norfentanyl	4.137	109017	218.0	39.5	752.0	496806	9.565 ng/ml
Norhydrocodone	3.140	18859	643.1	40.8	27.7	50960	88.787 ng/ml
Noroxycodone	2.992	173289	302.8	42.5	641.0	63722	101.291 ng/ml
O-desmethyl-tramadol	3.435	1520951	52752.1	6.4	172.2	820507	98.520 ng/ml
Oxazepam	5.768	13205	528.5	67.7	275.8	7528	99.575 ng/ml
Oxycodone	2.915	435784	7371.8	29.8	2931.6	219658	100.643 ng/ml
Oxymorphone	1.485	185168	2099.8	44.6	3769.6	79315	102.712 ng/ml
Phentermine	3.843	244095	435.0	5.2	404.3	282995	104.936 ng/ml
Promethazine	5.568	583542	1740.1	31.7	11379.9	268807	99.035 ng/ml
Quetiapine	5.555	577807	1000.5	59.9	4425.4	86824	104.487 ng/ml
Sertraline	5.788	158334	30076.3	102.4	139267.9	79404	96.958 ng/ml
Temazepam	5.829	109301	2069.5	29.0	522.8	53264	101.483 ng/ml
Tramadol	4.293	1523697	57294.3	3.5	210.3	814478	106.838 ng/ml
Trazodone	5.122	600777	20232.5	76.9	944.1	270604	100.665 ng/ml
Venlafaxine	5.093	1199932	4299.5	39.3	1263.1	645409	95.717 ng/ml
Zolpidem	4.888	1513905	6746.9	30.0	14231.3	653538	101.170 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-E2	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 12:33:56 PM		
Sample Info.			

Sample Chromatogram

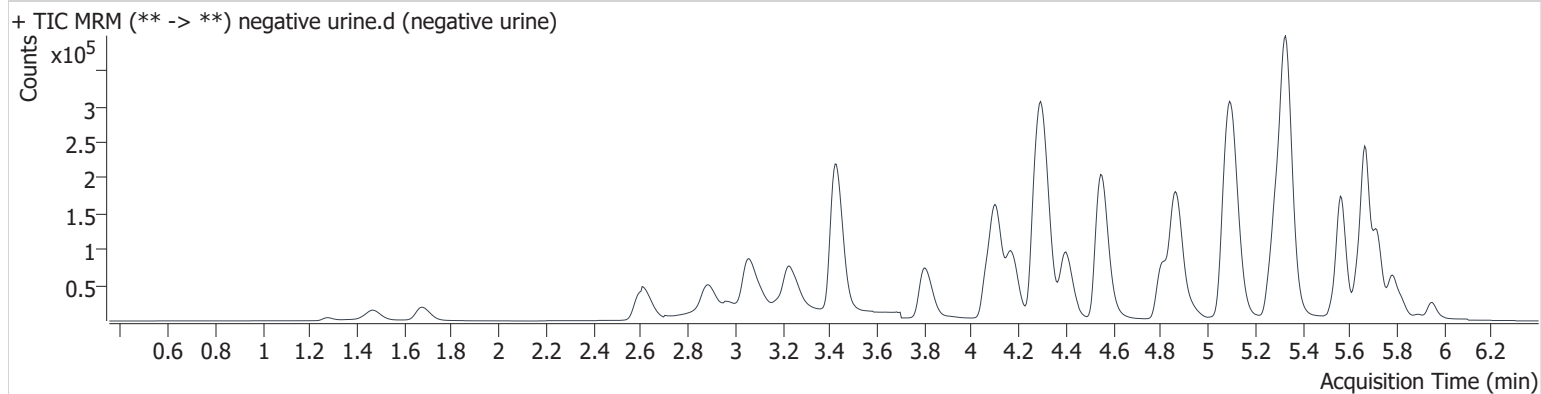


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-E3	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 2:53:57 PM		
Sample Info.			

Sample Chromatogram



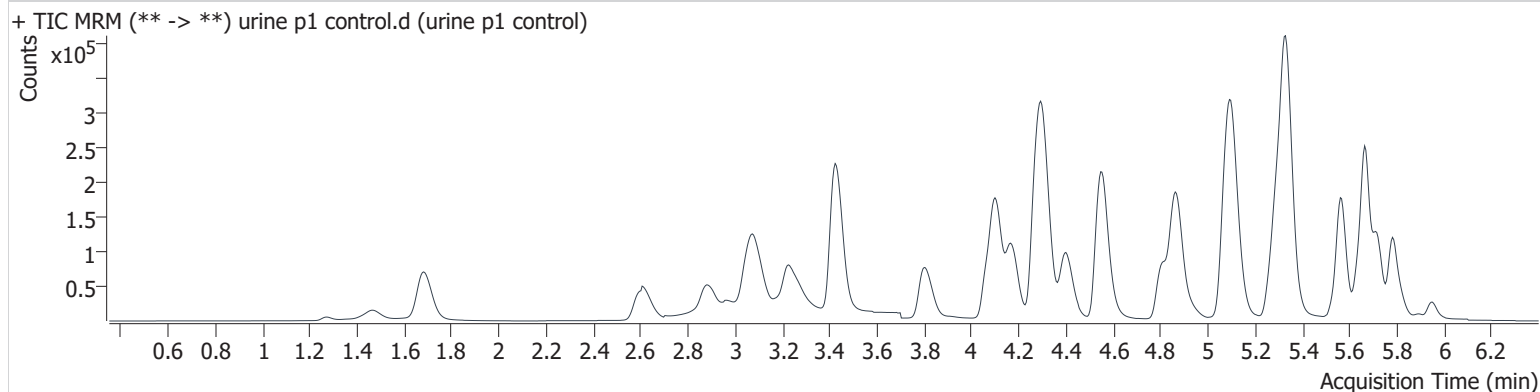
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	urine p1 control.d
Type	Sample	Sample	urine p1 control
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-F3	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 3:04:48 PM		

Sample Info.

Sample Chromatogram



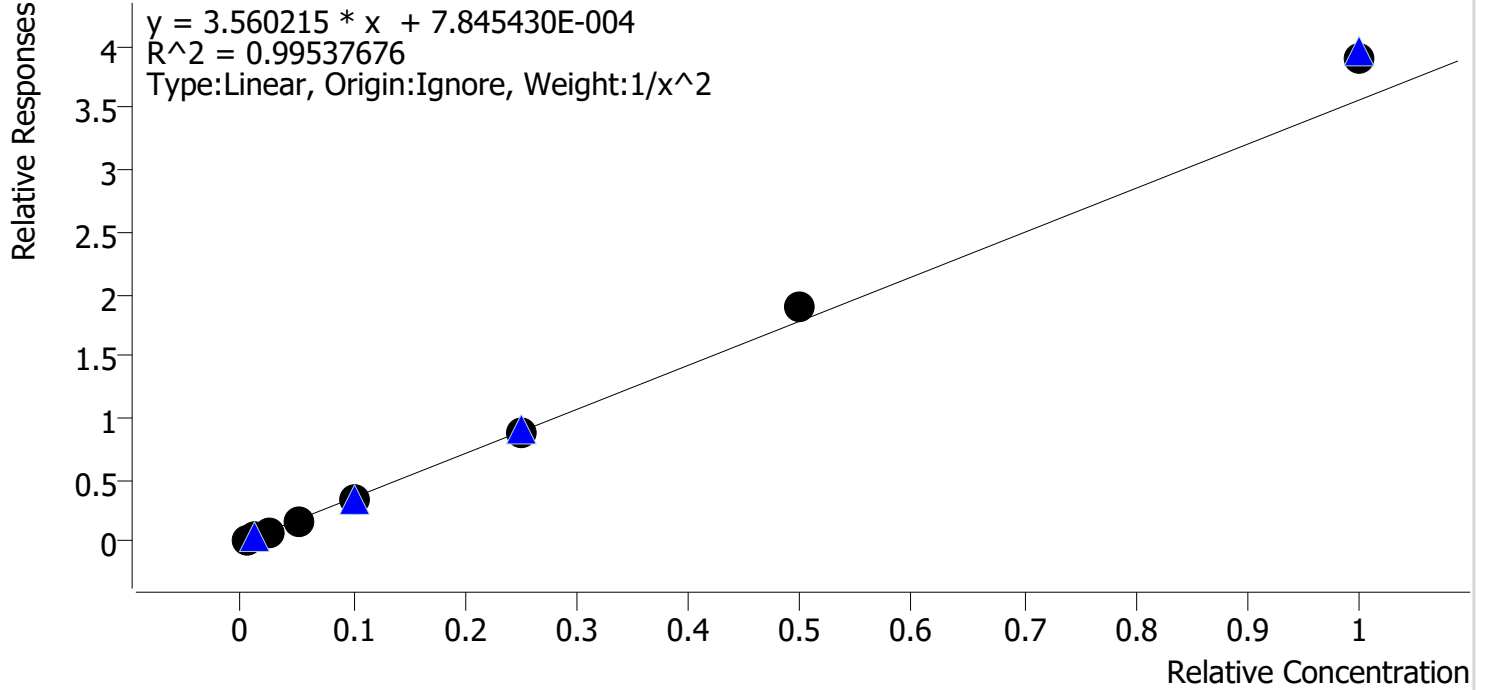
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.084	150065	1562.1	37.8	1591.9	152880	54.973 ng/ml
Hydromorphone	1.688	132304	1544.4	73.3	5588.4	80423	63.584 ng/ml
Sertraline	5.782	69090	20837.6	101.1	68943.4	94593	35.381 ng/ml

Compound Calibration Report



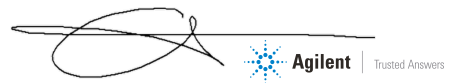
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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



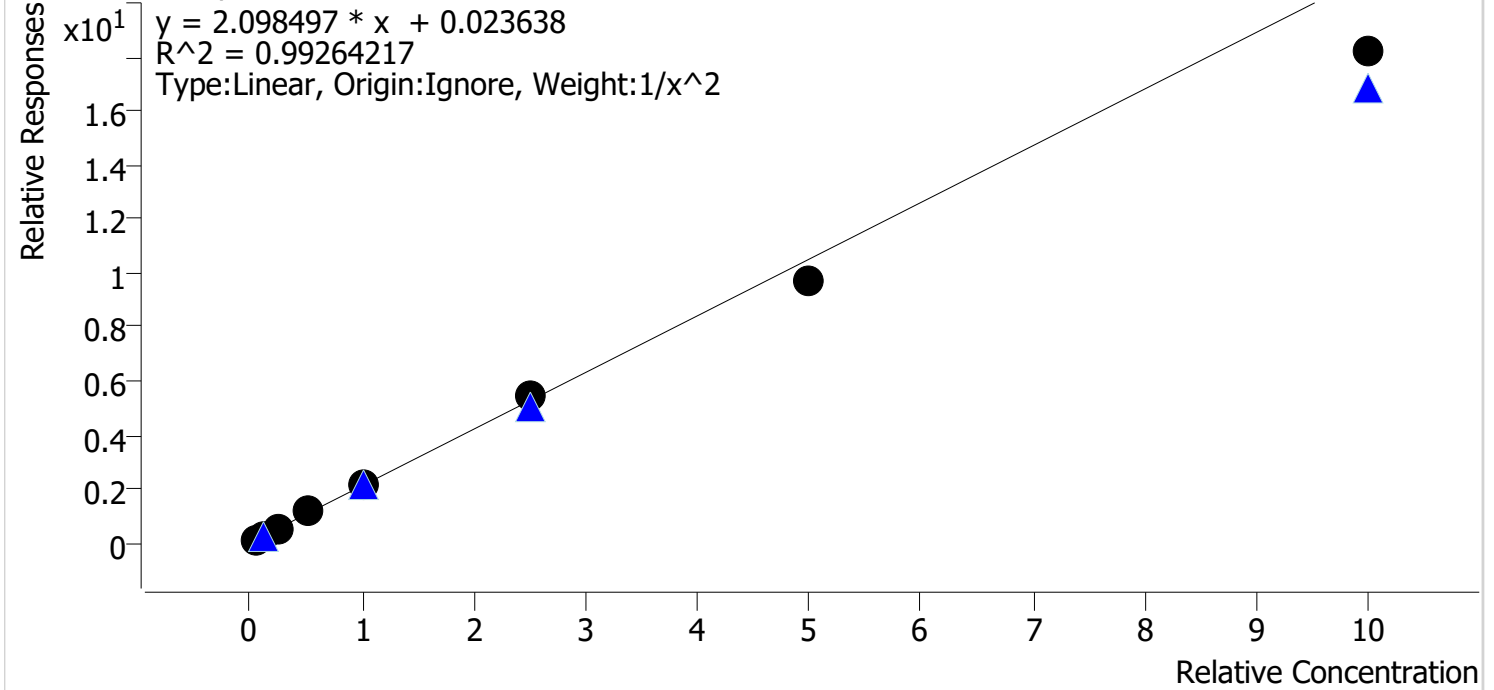
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	103.7
cal 2	2	✓	1.0	1.0	96.8
cal 3	3	✓	2.5	2.3	92.2
cal 4	4	✓	5.0	4.8	95.3
cal 5	5	✓	10.0	9.7	96.7
cal 6	6	✓	25.0	25.0	100.0
cal 7	7	✓	50.0	52.9	105.9
cal 8	8	✓	100.0	109.5	109.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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

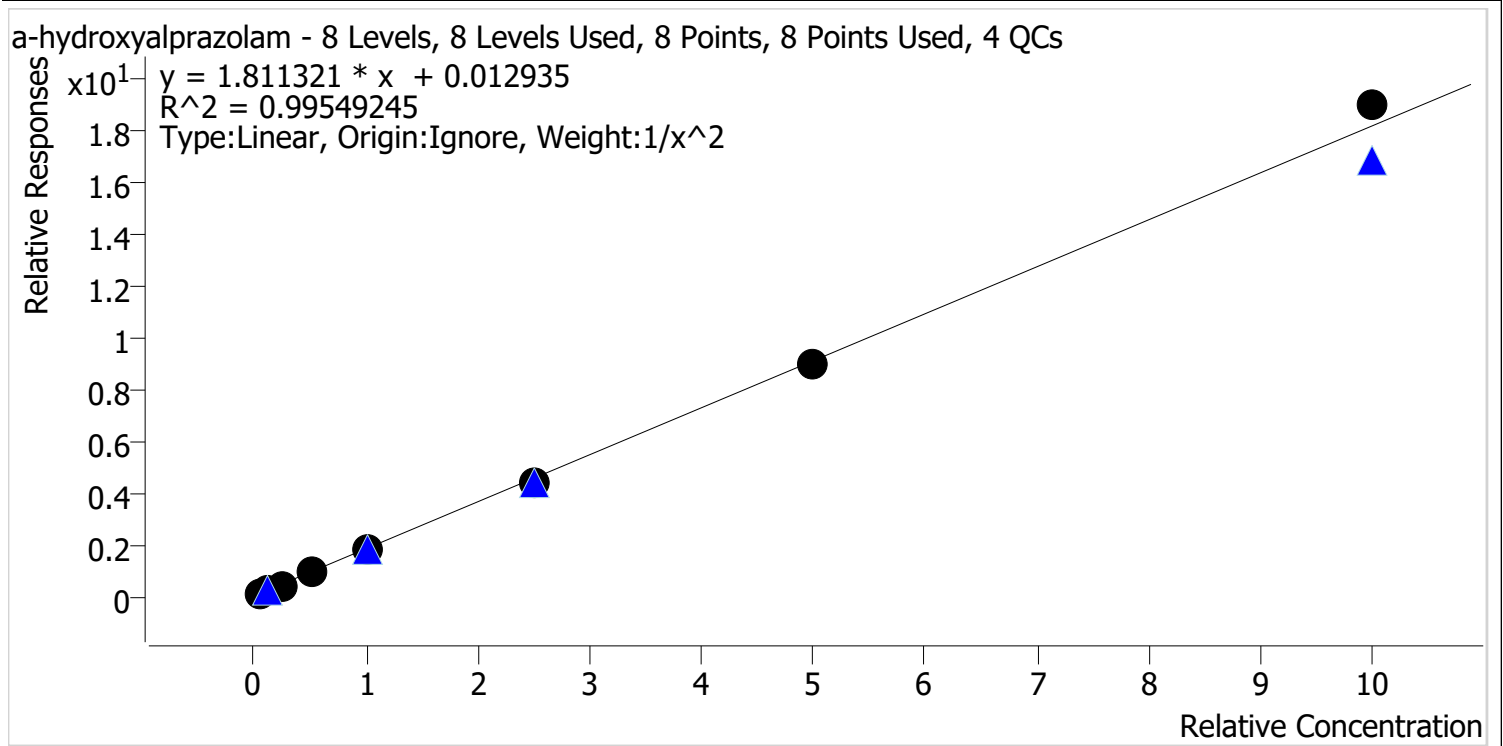


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.7
cal 2	2	✓	10.0	10.4	104.5
cal 3	3	✓	25.0	26.5	105.9
cal 4	4	✓	50.0	54.0	108.0
cal 5	5	✓	100.0	102.9	102.9
cal 6	6	✓	250.0	259.2	103.7
cal 7	7	✓	500.0	463.8	92.8
cal 8	8	✓	1000.0	866.1	86.6

Compound Calibration Report



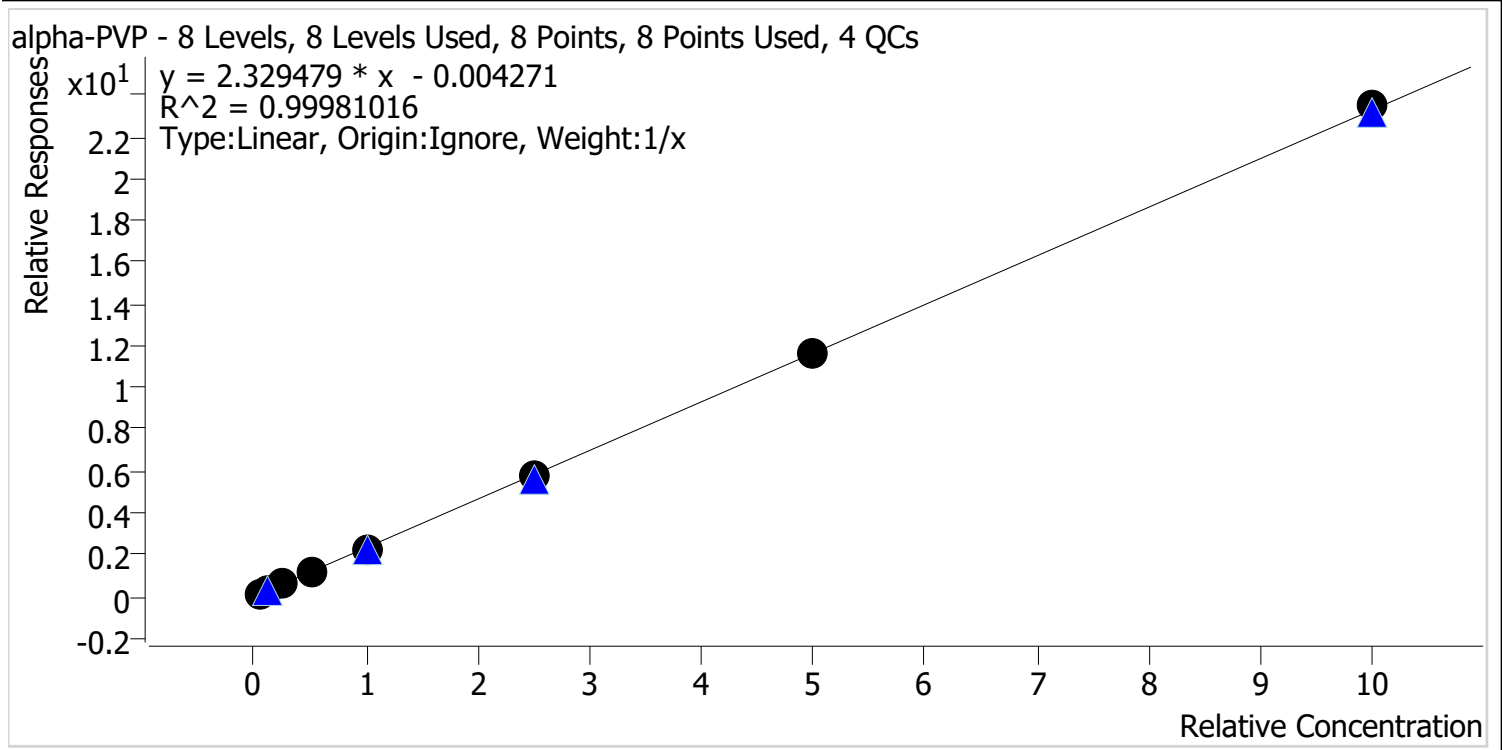
Batch results	D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin		
Last Cal. Update	11/13/2019 3:49 PM		
Analyst Name	ISP\datastor		
Analyte	a-hydroxyalprazolam	Internal Standard	a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.8
cal 2	2	✓	10.0	11.2	111.6
cal 3	3	✓	25.0	23.1	92.4
cal 4	4	✓	50.0	49.8	99.7
cal 5	5	✓	100.0	99.8	99.8
cal 6	6	✓	250.0	242.6	97.0
cal 7	7	✓	500.0	496.6	99.3
cal 8	8	✓	1000.0	1043.9	104.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8



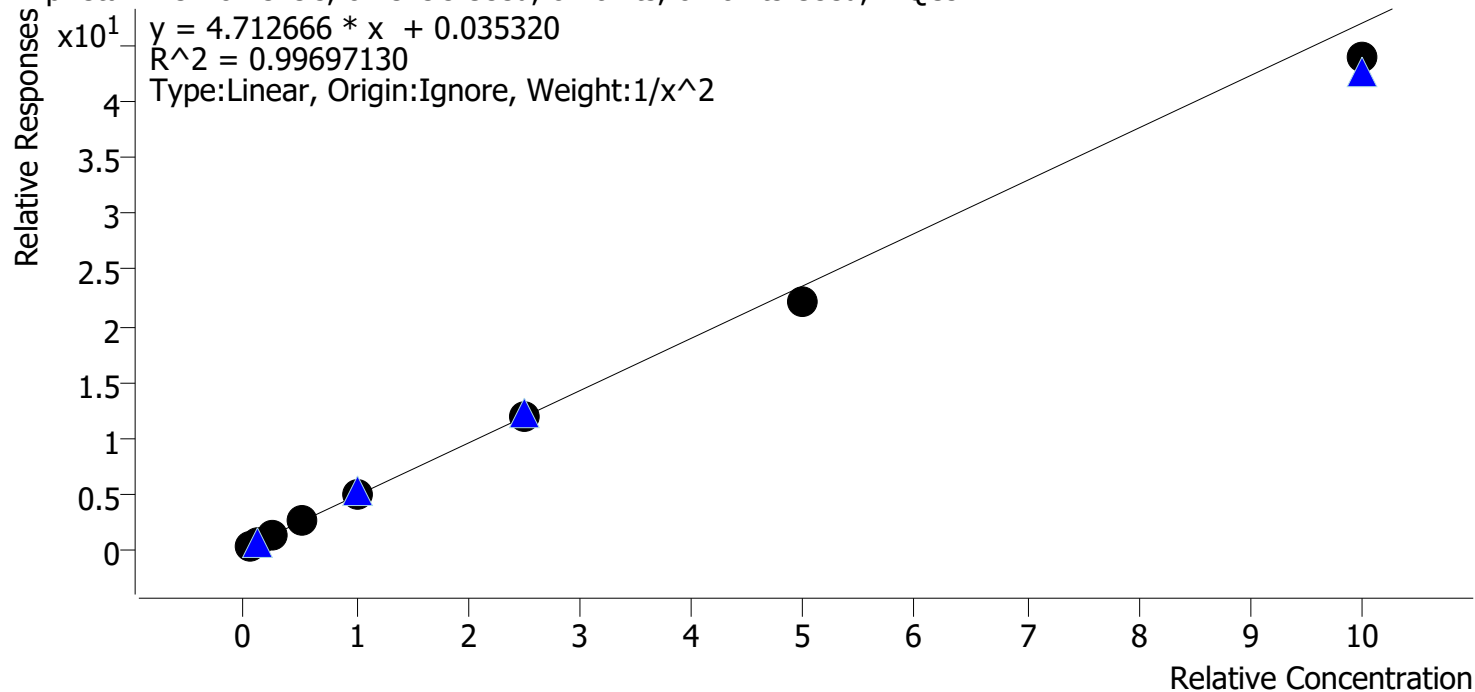
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.0
cal 2	2	✓	10.0	10.1	101.1
cal 3	3	✓	25.0	24.6	98.2
cal 4	4	✓	50.0	49.7	99.4
cal 5	5	✓	100.0	96.4	96.4
cal 6	6	✓	250.0	245.2	98.1
cal 7	7	✓	500.0	499.7	99.9
cal 8	8	✓	1000.0	1009.1	100.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Amphetamine

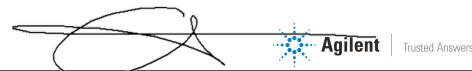
Internal Standard Amphetamine-D11

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



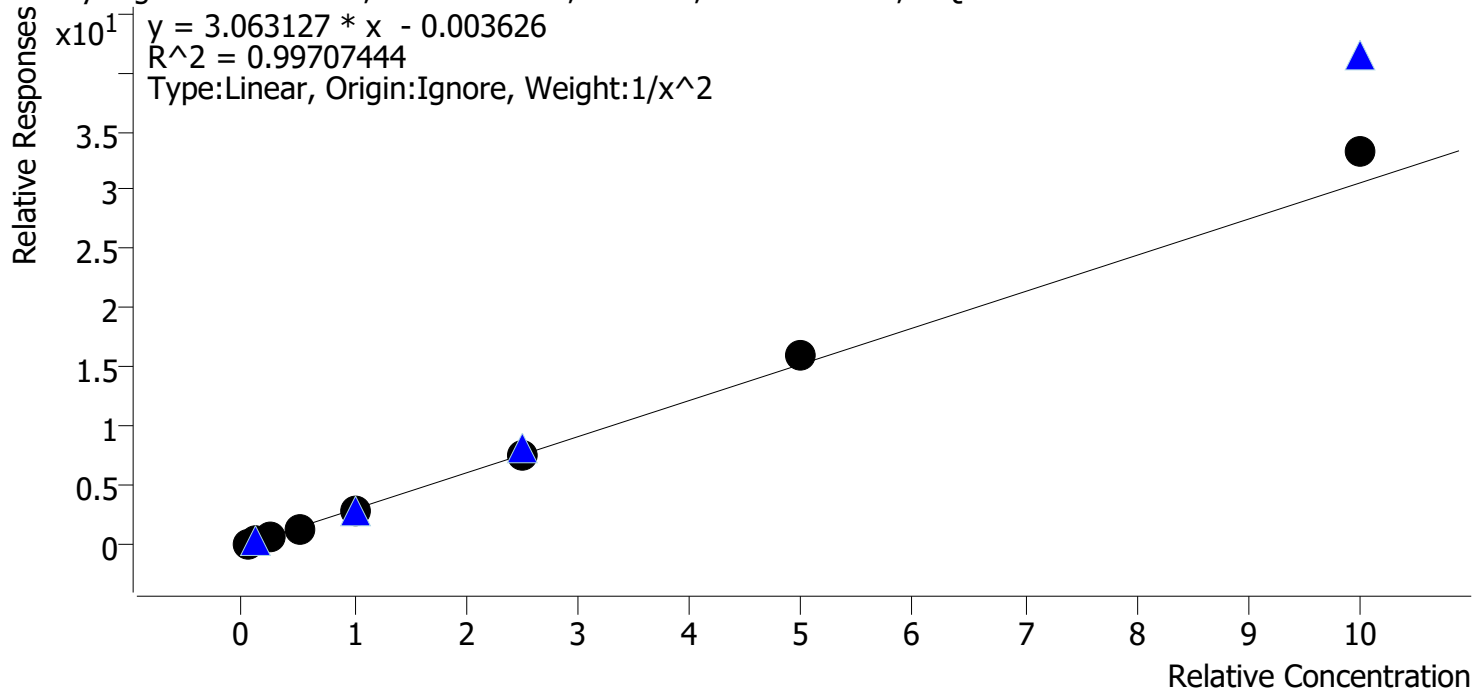
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.2
cal 2	2	✓	10.0	10.3	102.5
cal 3	3	✓	25.0	26.0	104.1
cal 4	4	✓	50.0	53.1	106.3
cal 5	5	✓	100.0	103.3	103.3
cal 6	6	✓	250.0	247.5	99.0
cal 7	7	✓	500.0	470.6	94.1
cal 8	8	✓	1000.0	934.2	93.4

Compound Calibration Report



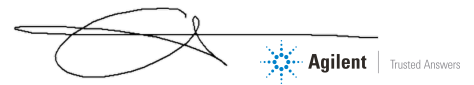
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



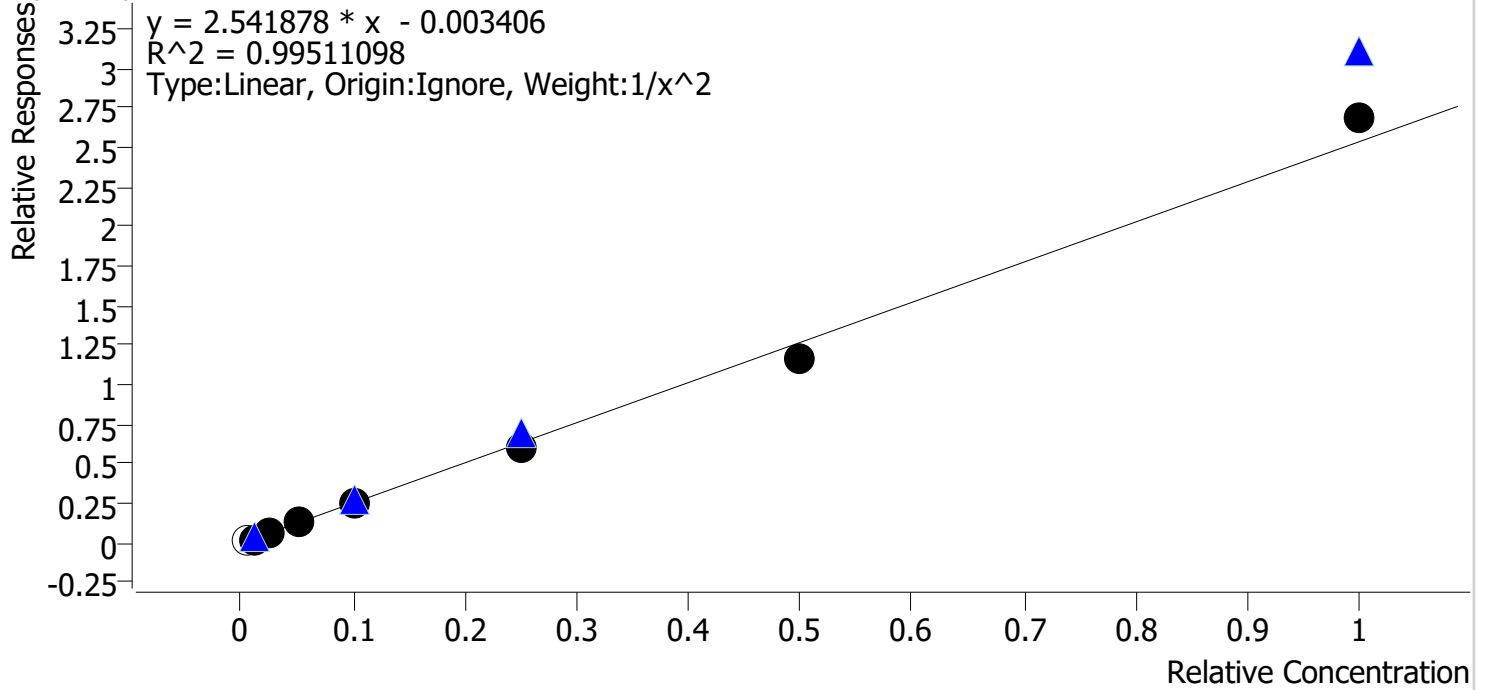
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.8
cal 2	2	✓	10.0	10.1	100.5
cal 3	3	✓	25.0	24.5	97.9
cal 4	4	✓	50.0	48.2	96.3
cal 5	5	✓	100.0	93.7	93.7
cal 6	6	✓	250.0	244.5	97.8
cal 7	7	✓	500.0	522.5	104.5
cal 8	8	✓	1000.0	1084.5	108.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	0.5	0.8	167.5
cal 2	2	✓	1.0	1.0	96.7
cal 3	3	✓	2.5	2.7	106.7
cal 4	4	✓	5.0	5.3	106.4
cal 5	5	✓	10.0	9.6	95.9
cal 6	6	✓	25.0	23.9	95.8
cal 7	7	✓	50.0	46.4	92.8
cal 8	8	✓	100.0	105.8	105.8

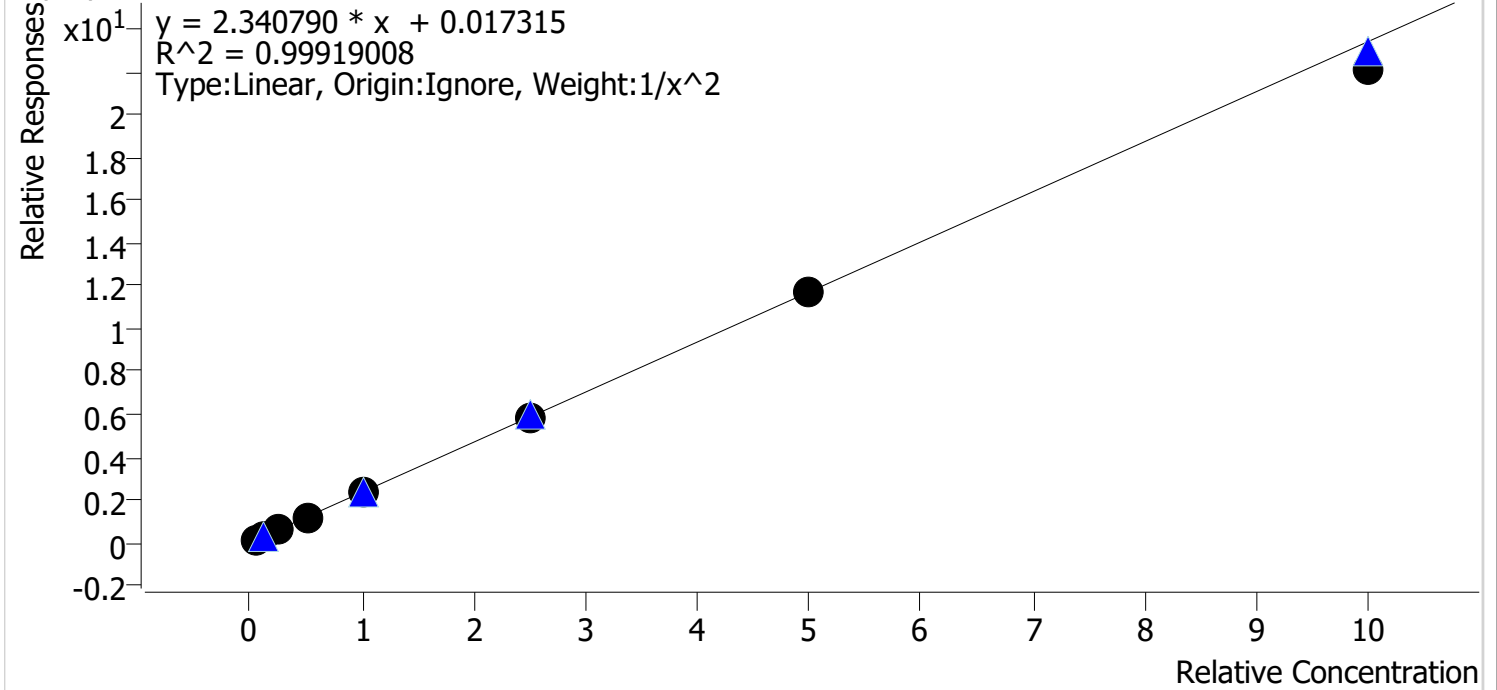
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
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	5.0	99.2
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	25.5	102.1
cal 4	4	✓	50.0	51.5	103.0
cal 5	5	✓	100.0	100.0	100.0
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	501.9	100.4
cal 8	8	✓	1000.0	946.5	94.6

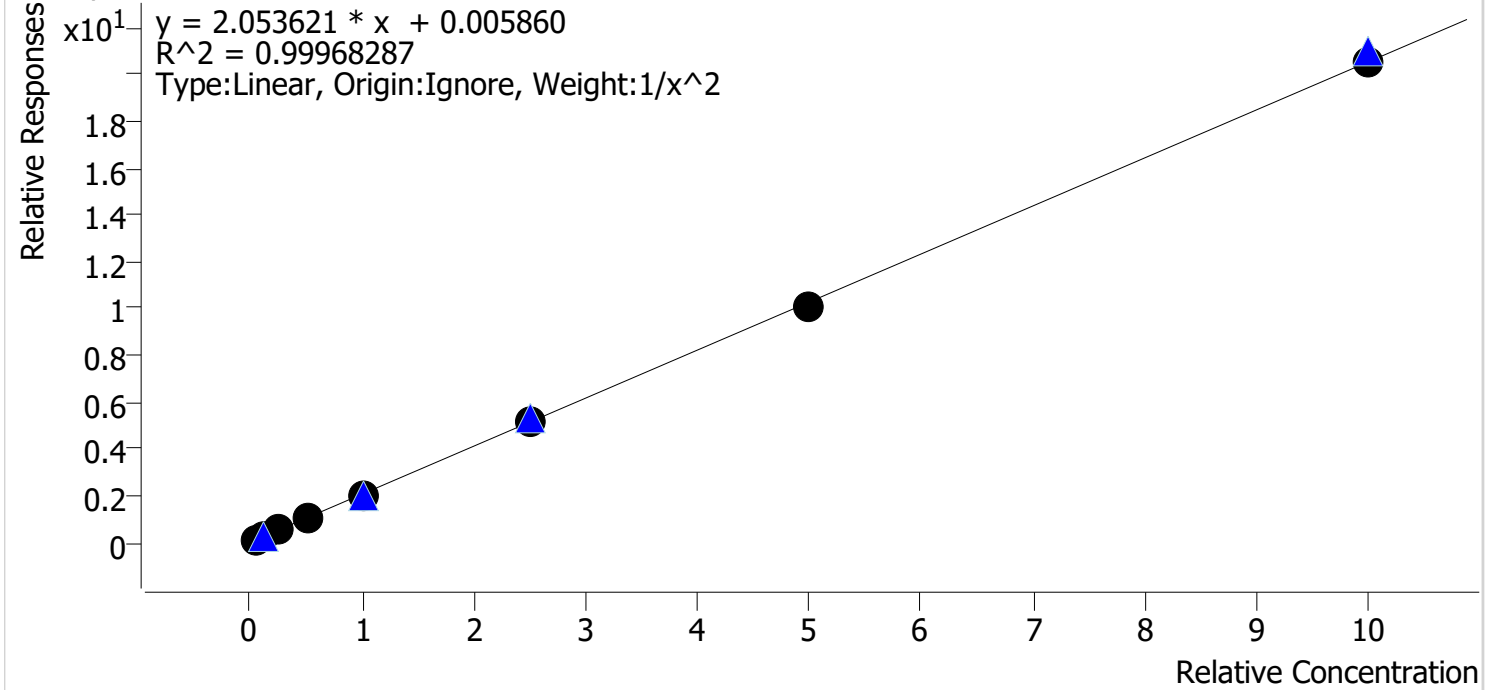
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Carisoprodol

Internal Standard Carisoprodol-D7

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

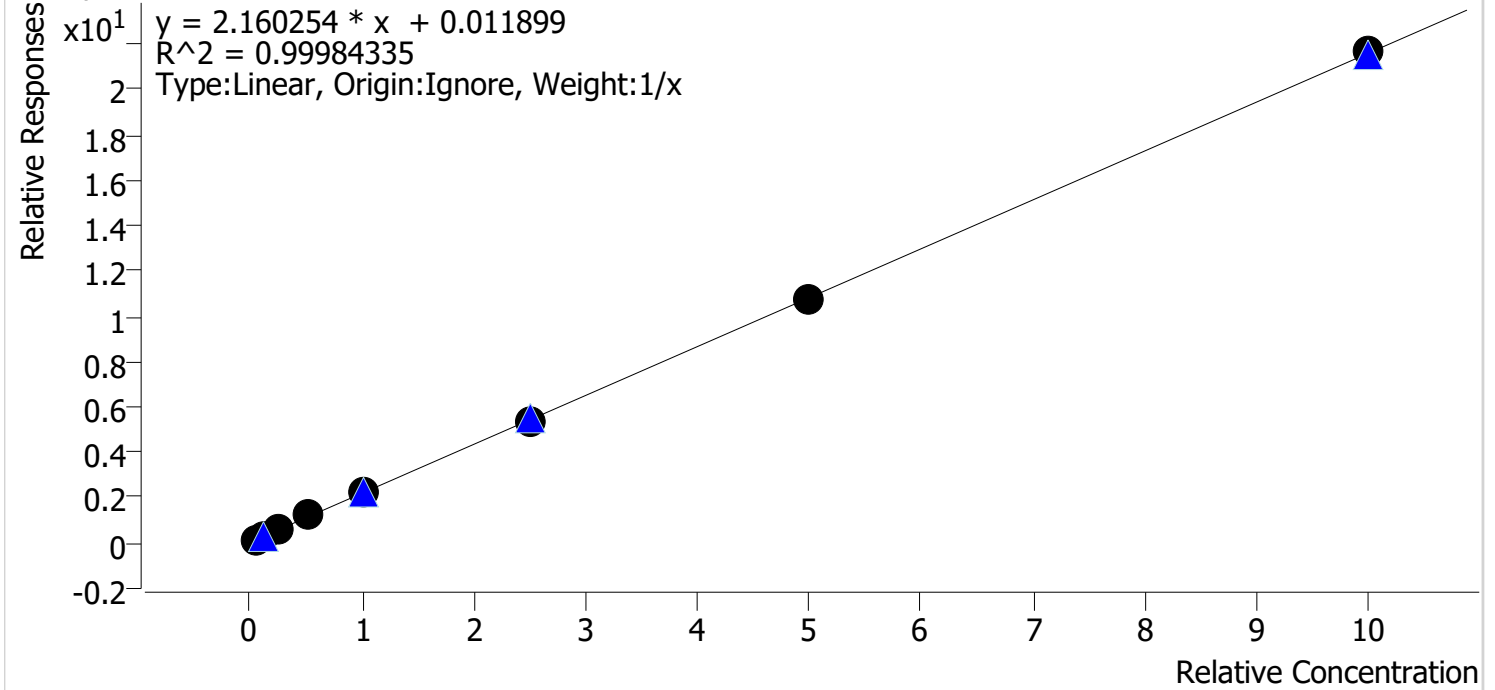


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.9	98.8
cal 3	3	✓	25.0	25.1	100.2
cal 4	4	✓	50.0	51.6	103.1
cal 5	5	✓	100.0	98.8	98.8
cal 6	6	✓	250.0	252.0	100.8
cal 7	7	✓	500.0	491.0	98.2
cal 8	8	✓	1000.0	997.3	99.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



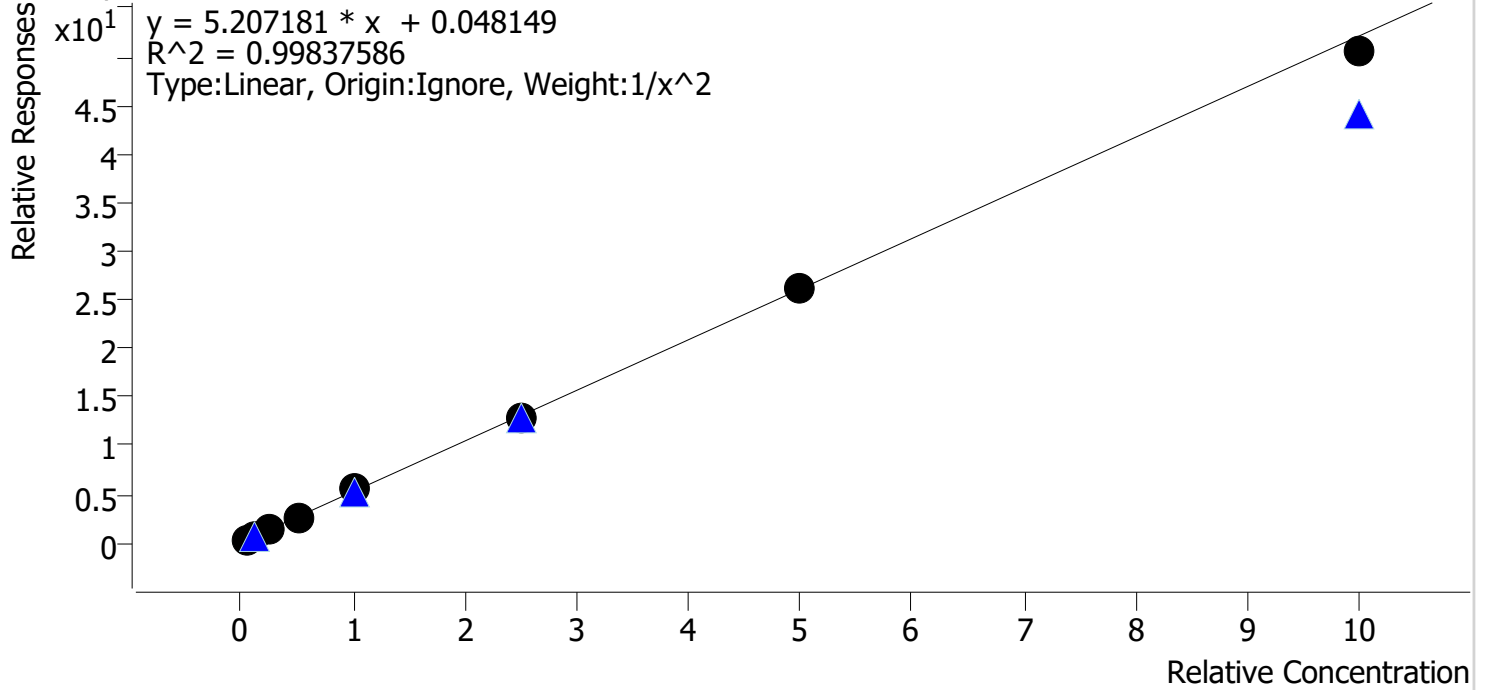
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.3
cal 2	2	✓	10.0	10.0	100.4
cal 3	3	✓	25.0	25.0	100.1
cal 4	4	✓	50.0	52.8	105.6
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	250.0	100.0
cal 7	7	✓	500.0	493.3	98.7
cal 8	8	✓	1000.0	1003.5	100.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Clonazepam

Internal Standard Clonazepam-D4

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

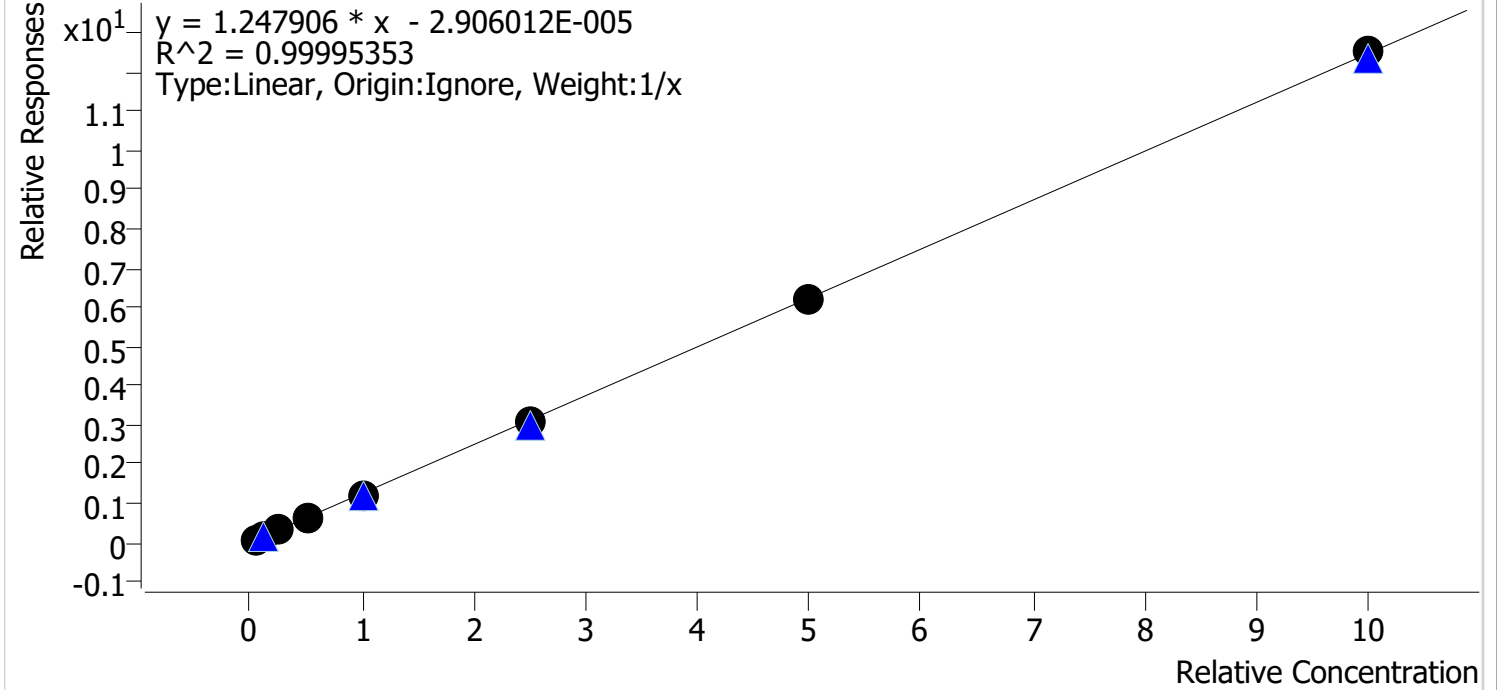


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.8
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	48.3	96.7
cal 5	5	✓	100.0	107.2	107.2
cal 6	6	✓	250.0	245.2	98.1
cal 7	7	✓	500.0	502.5	100.5
cal 8	8	✓	1000.0	969.1	96.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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

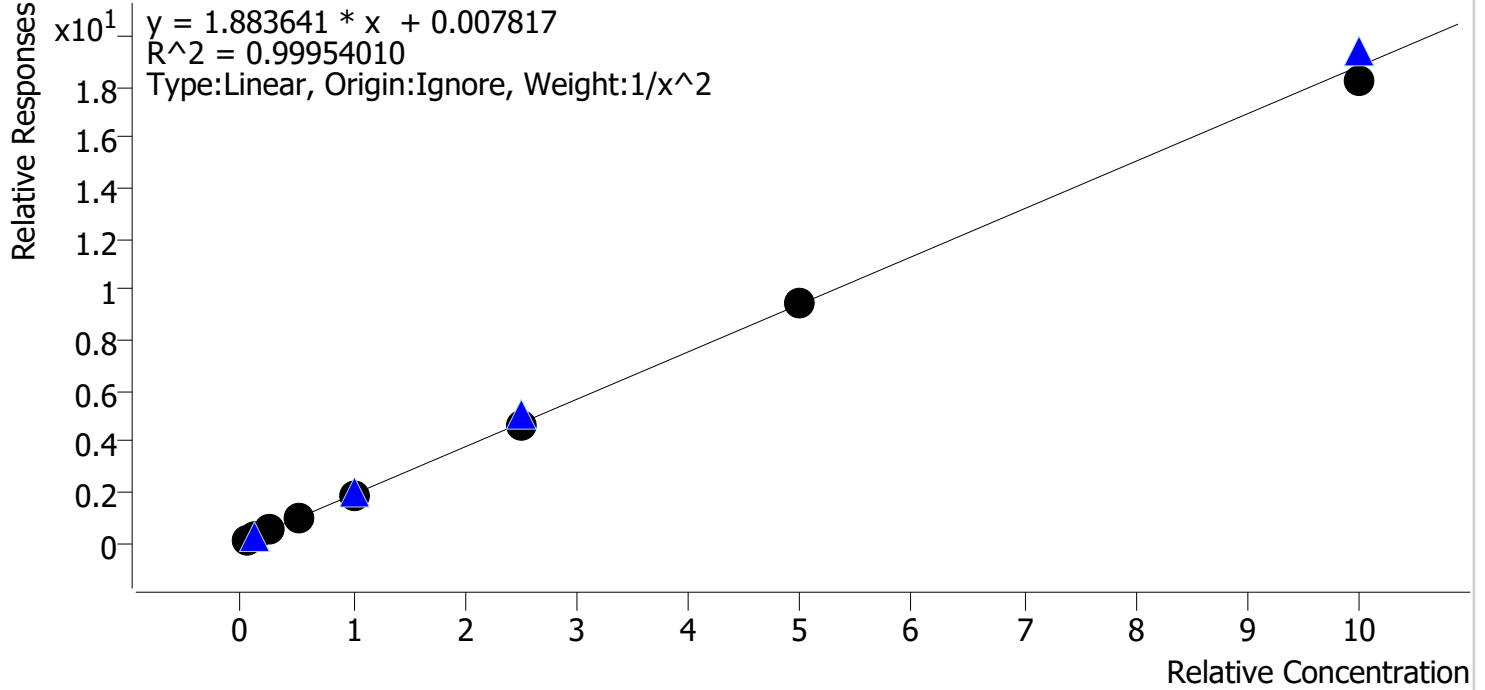


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.0
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.5	98.1
cal 4	4	✓	50.0	49.9	99.7
cal 5	5	✓	100.0	98.1	98.1
cal 6	6	✓	250.0	248.2	99.3
cal 7	7	✓	500.0	500.1	100.0
cal 8	8	✓	1000.0	1003.9	100.4

Compound Calibration Report

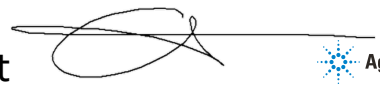
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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	4.9	98.9
cal 2	2	✓	10.0	10.1	101.5
cal 3	3	✓	25.0	25.0	100.0
cal 4	4	✓	50.0	51.8	103.6
cal 5	5	✓	100.0	99.5	99.5
cal 6	6	✓	250.0	248.2	99.3
cal 7	7	✓	500.0	499.4	99.9
cal 8	8	✓	1000.0	972.6	97.3

Compound Calibration Report

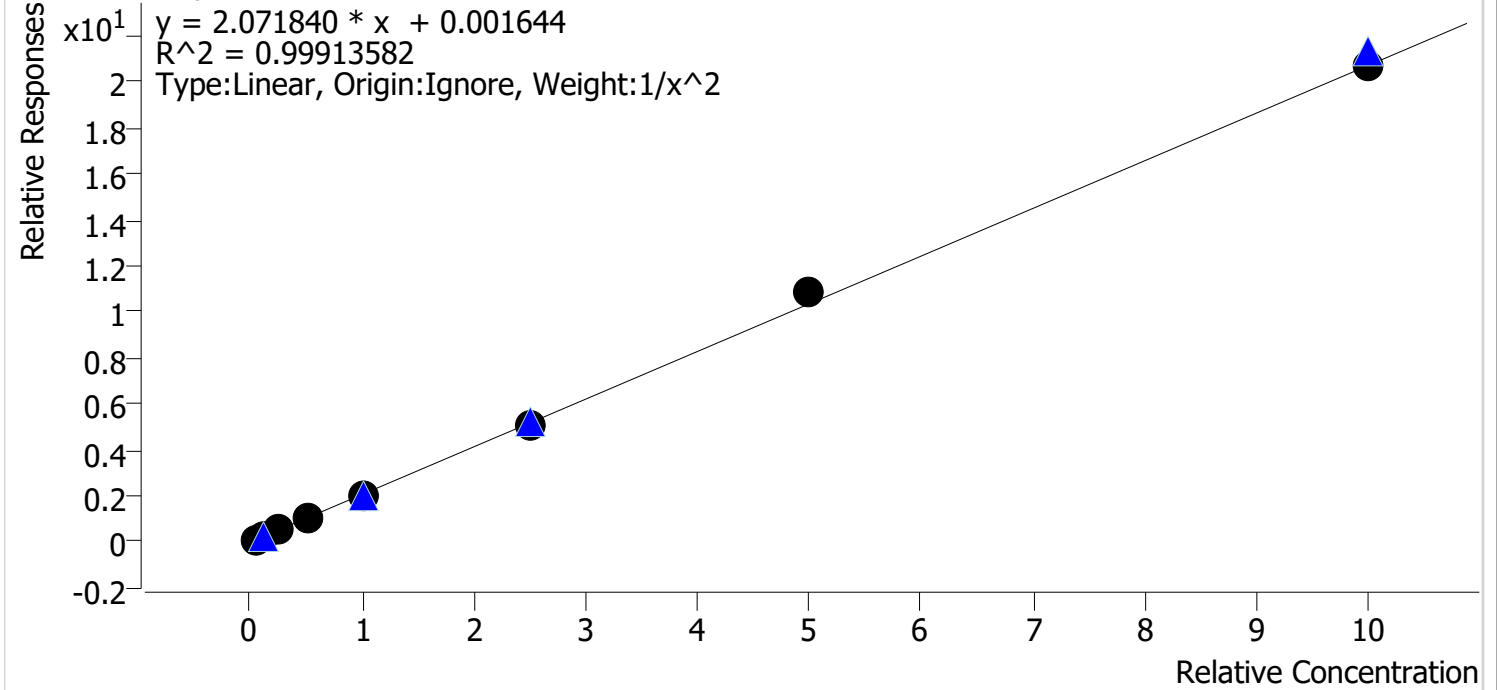


Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Dextromethorphan

Internal Standard

Dextromethorphan-D3

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

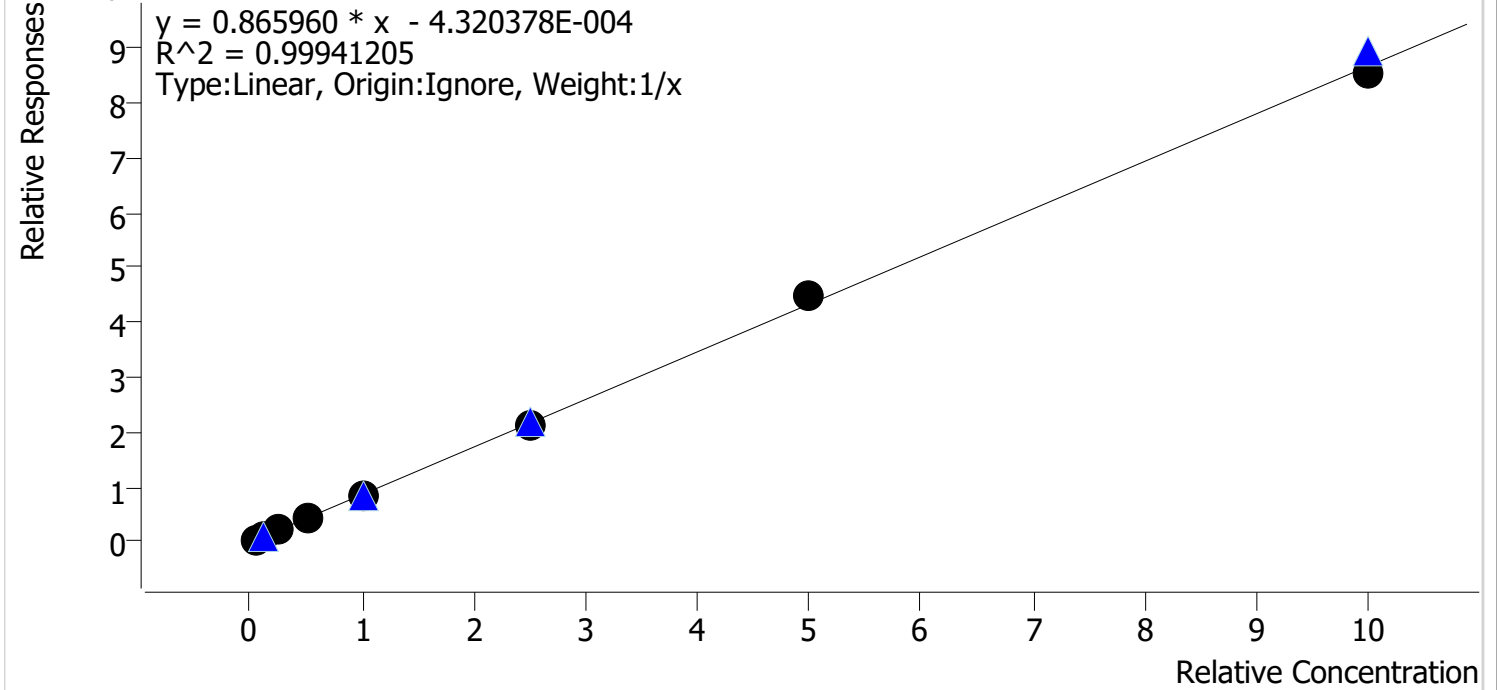


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.8
cal 2	2	✓	10.0	10.2	102.0
cal 3	3	✓	25.0	24.2	96.8
cal 4	4	✓	50.0	48.9	97.9
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	246.5	98.6
cal 7	7	✓	500.0	524.9	105.0
cal 8	8	✓	1000.0	1002.5	100.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

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

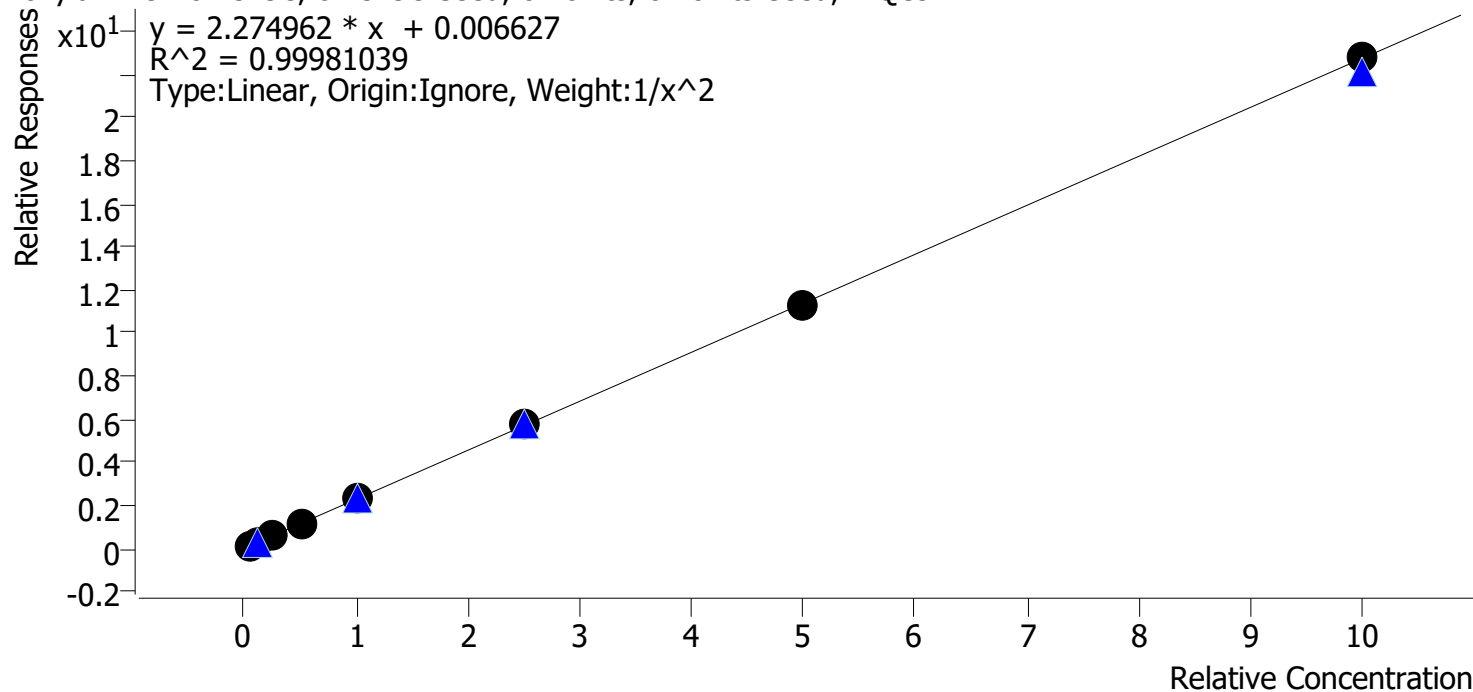


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.8
cal 2	2	✓	10.0	10.2	102.0
cal 3	3	✓	25.0	24.5	97.8
cal 4	4	✓	50.0	50.0	99.9
cal 5	5	✓	100.0	95.7	95.7
cal 6	6	✓	250.0	248.3	99.3
cal 7	7	✓	500.0	518.4	103.7
cal 8	8	✓	1000.0	987.8	98.8

Compound Calibration Report

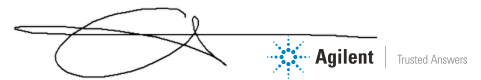
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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



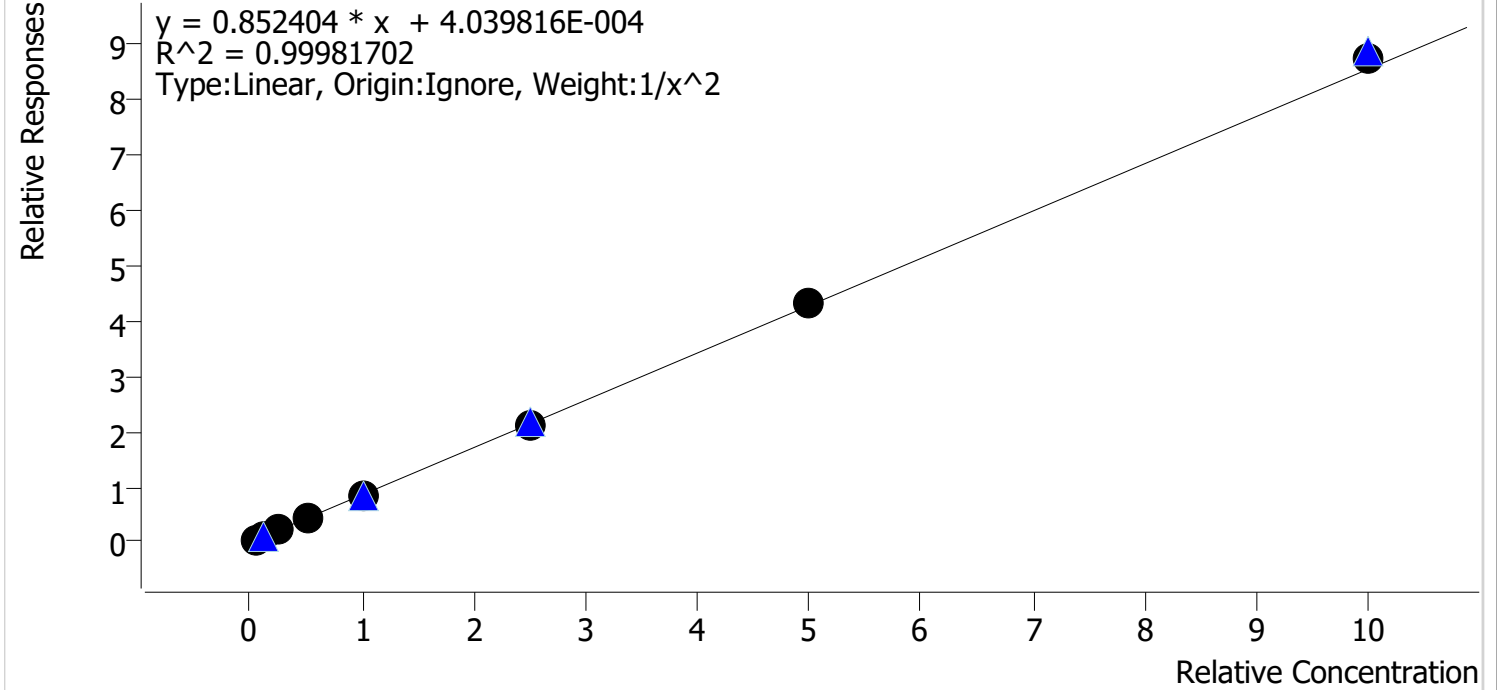
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.7
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	51.1	102.3
cal 5	5	✓	100.0	98.9	98.9
cal 6	6	✓	250.0	251.1	100.5
cal 7	7	✓	500.0	499.0	99.8
cal 8	8	✓	1000.0	1001.7	100.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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

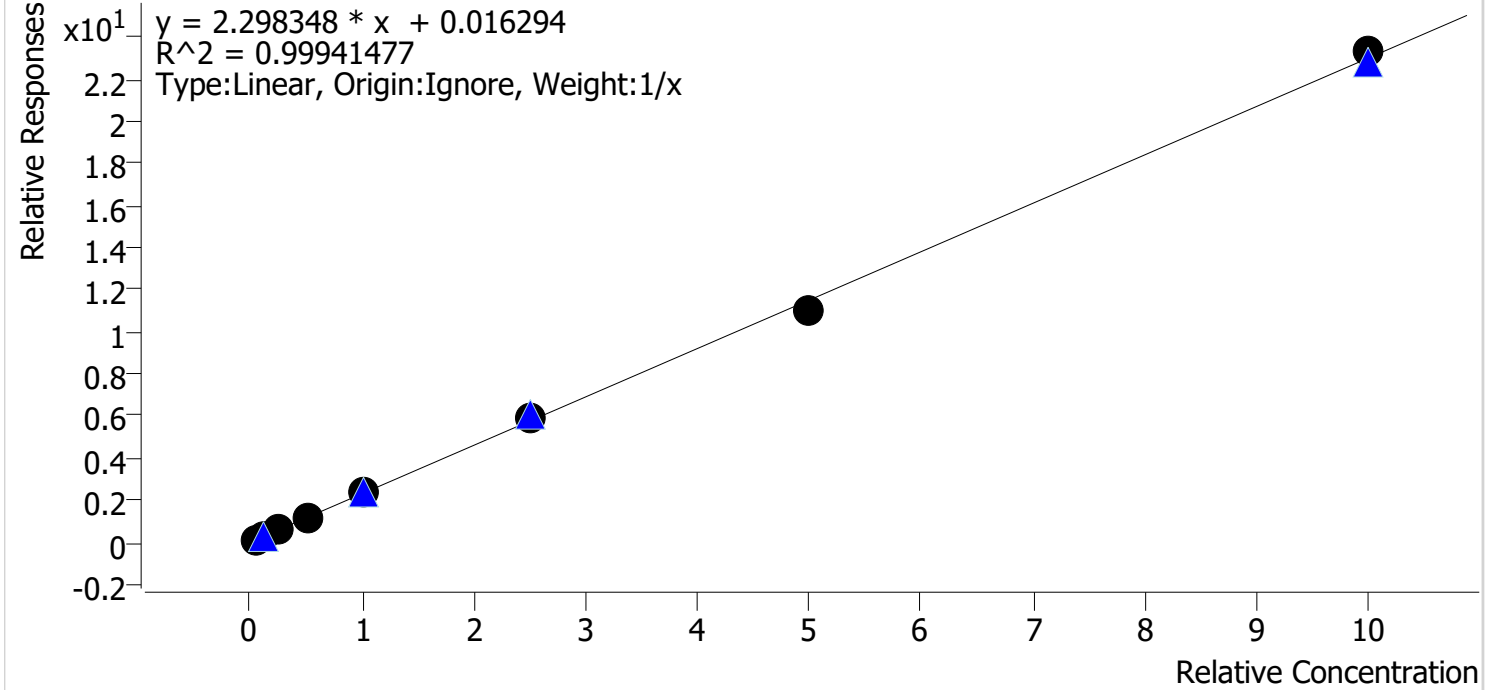


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.8
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	25.0	24.9	99.7
cal 4	4	✓	50.0	50.0	100.0
cal 5	5	✓	100.0	98.3	98.3
cal 6	6	✓	250.0	249.8	99.9
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	1019.6	102.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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

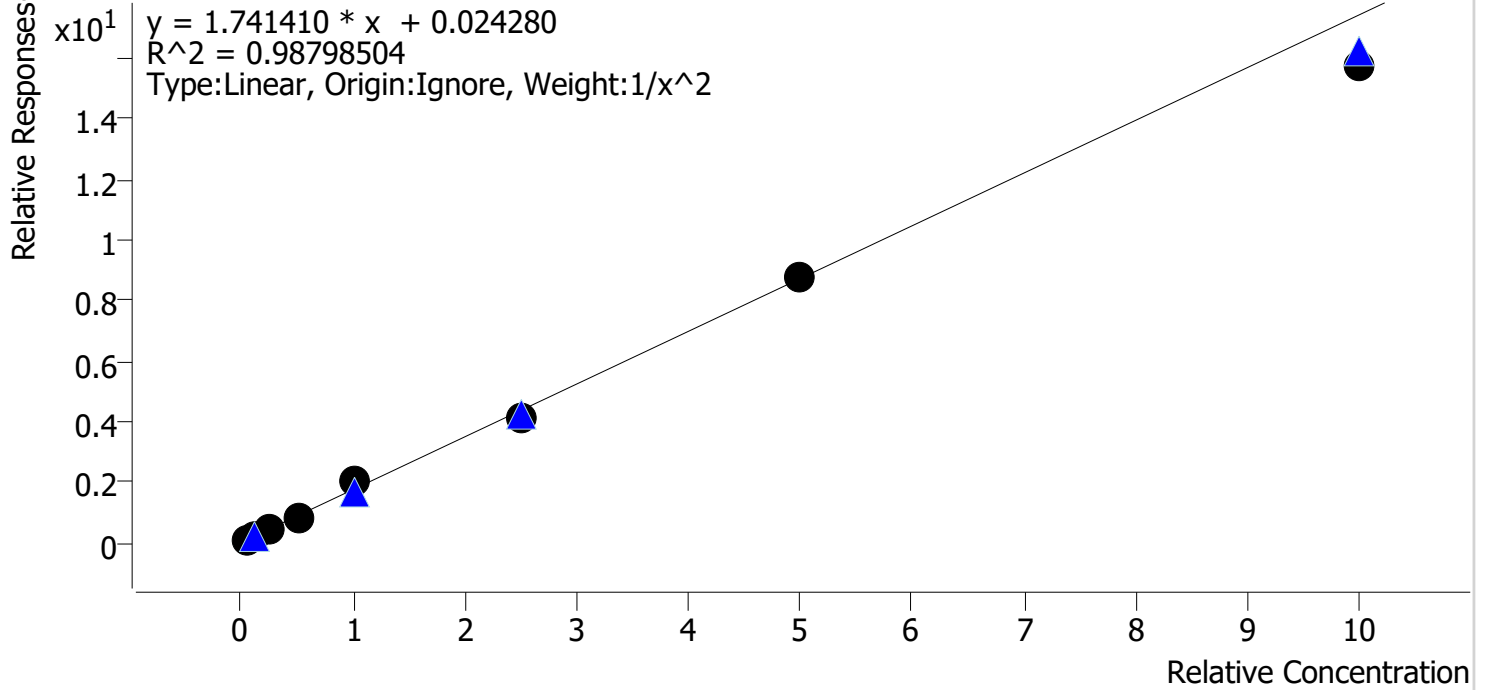


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.4
cal 2	2	✓	10.0	10.1	100.5
cal 3	3	✓	25.0	25.3	101.2
cal 4	4	✓	50.0	51.4	102.8
cal 5	5	✓	100.0	101.5	101.5
cal 6	6	✓	250.0	252.8	101.1
cal 7	7	✓	500.0	480.7	96.1
cal 8	8	✓	1000.0	1013.5	101.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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

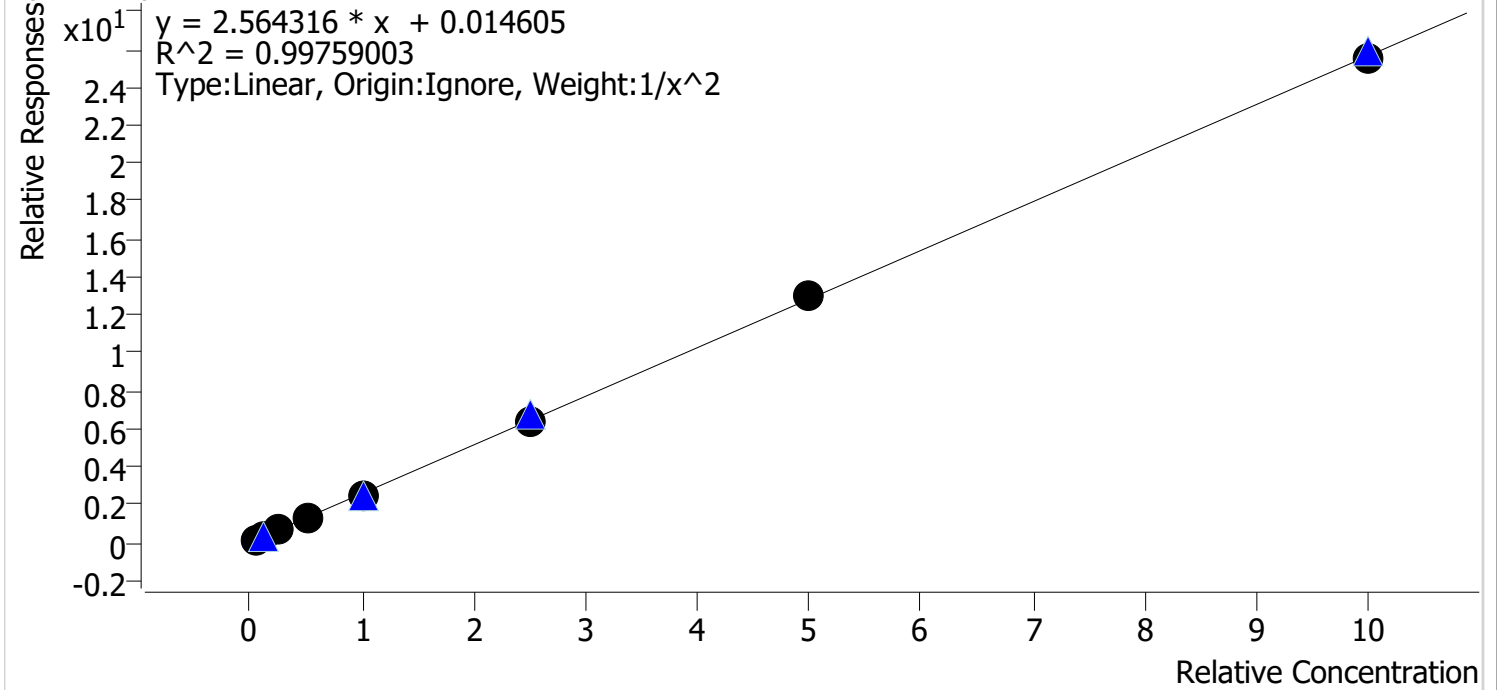


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.0
cal 2	2	✓	10.0	11.2	112.0
cal 3	3	✓	25.0	23.4	93.5
cal 4	4	✓	50.0	47.8	95.6
cal 5	5	✓	100.0	117.4	117.4
cal 6	6	✓	250.0	238.5	95.4
cal 7	7	✓	500.0	502.5	100.5
cal 8	8	✓	1000.0	906.1	90.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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



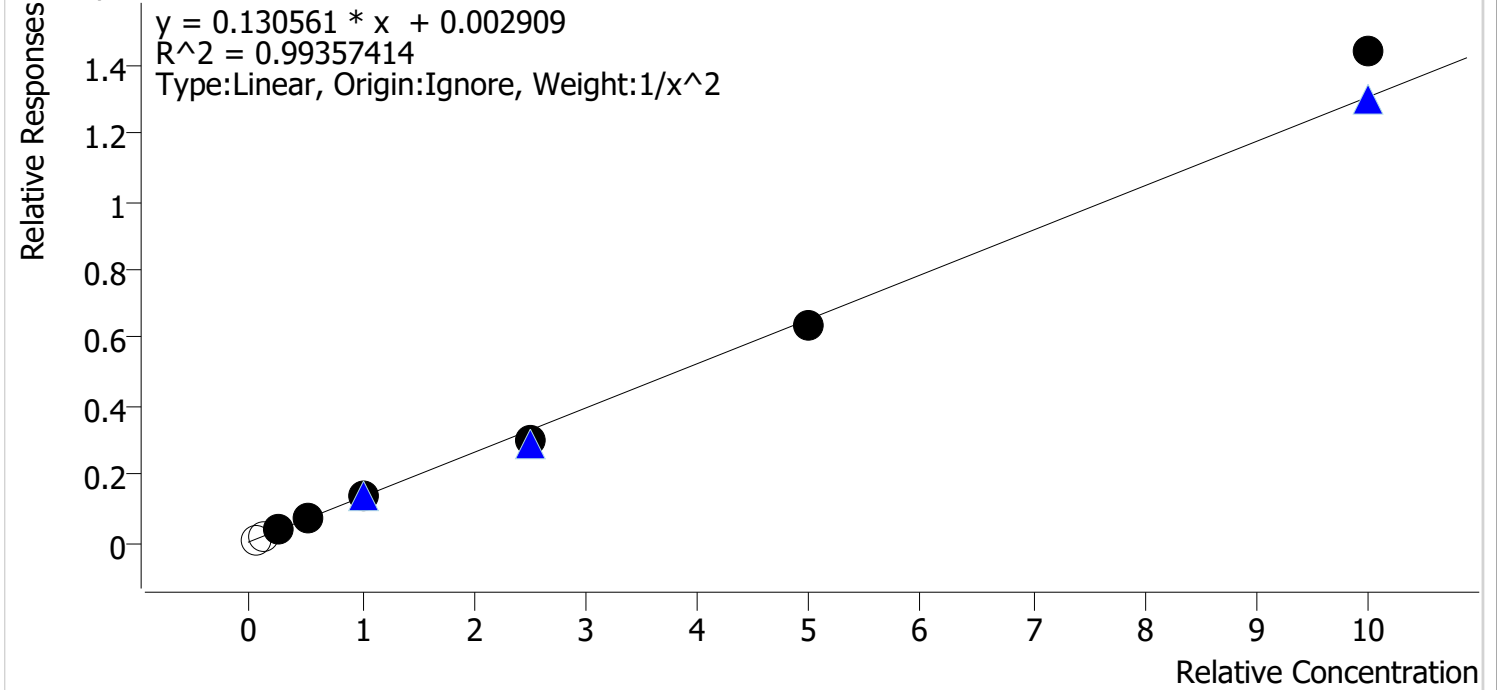
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.0
cal 2	2	✓	10.0	11.0	109.5
cal 3	3	✓	25.0	24.2	96.8
cal 4	4	✓	50.0	50.1	100.2
cal 5	5	✓	100.0	97.3	97.3
cal 6	6	✓	250.0	247.8	99.1
cal 7	7	✓	500.0	507.0	101.4
cal 8	8	✓	1000.0	996.8	99.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Alprazolam-D5

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



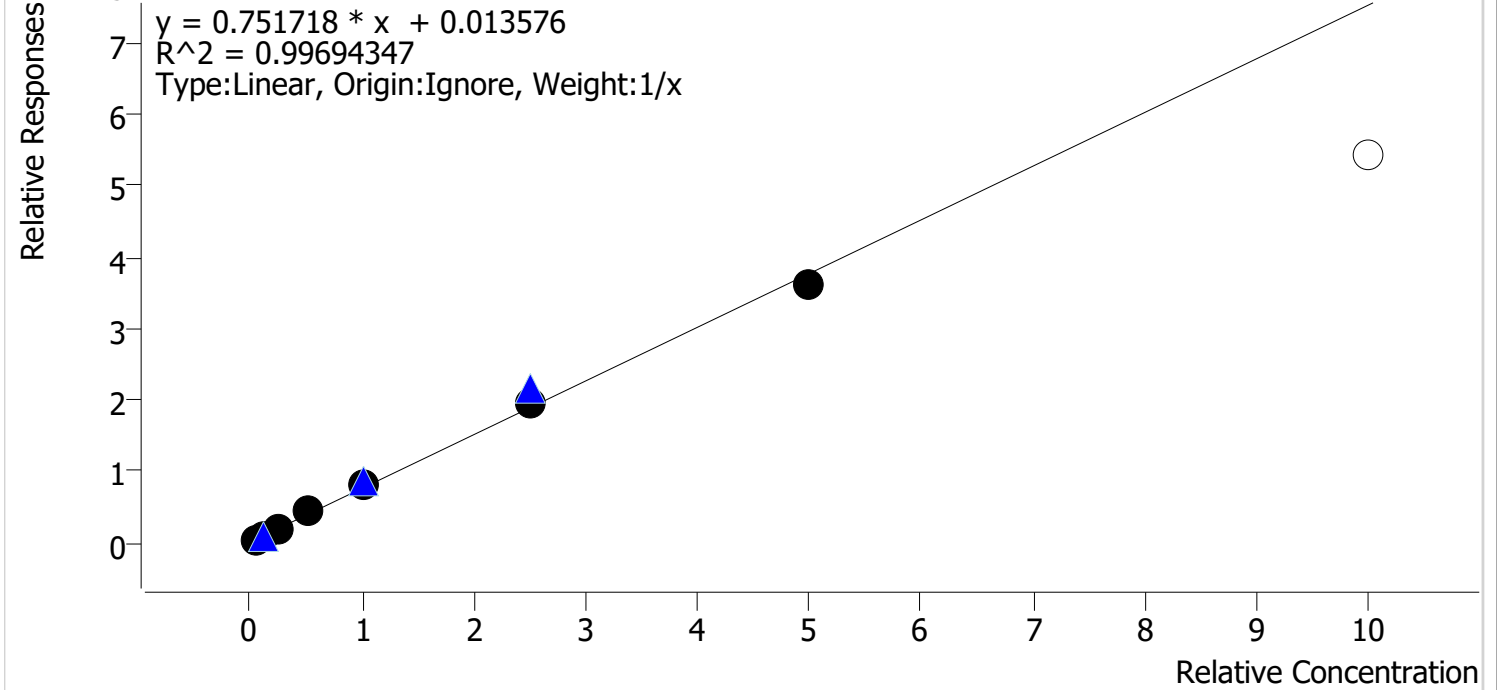
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	3.6	71.0
cal 2	2	x	10.0	9.6	96.5
cal 3	3	✓	25.0	24.8	99.2
cal 4	4	✓	50.0	52.0	104.0
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	228.5	91.4
cal 7	7	✓	500.0	484.2	96.8
cal 8	8	✓	1000.0	1102.1	110.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Lamotrigine

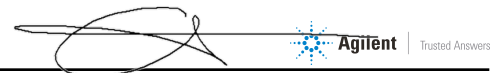
Internal Standard Carisoprodol-D7

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



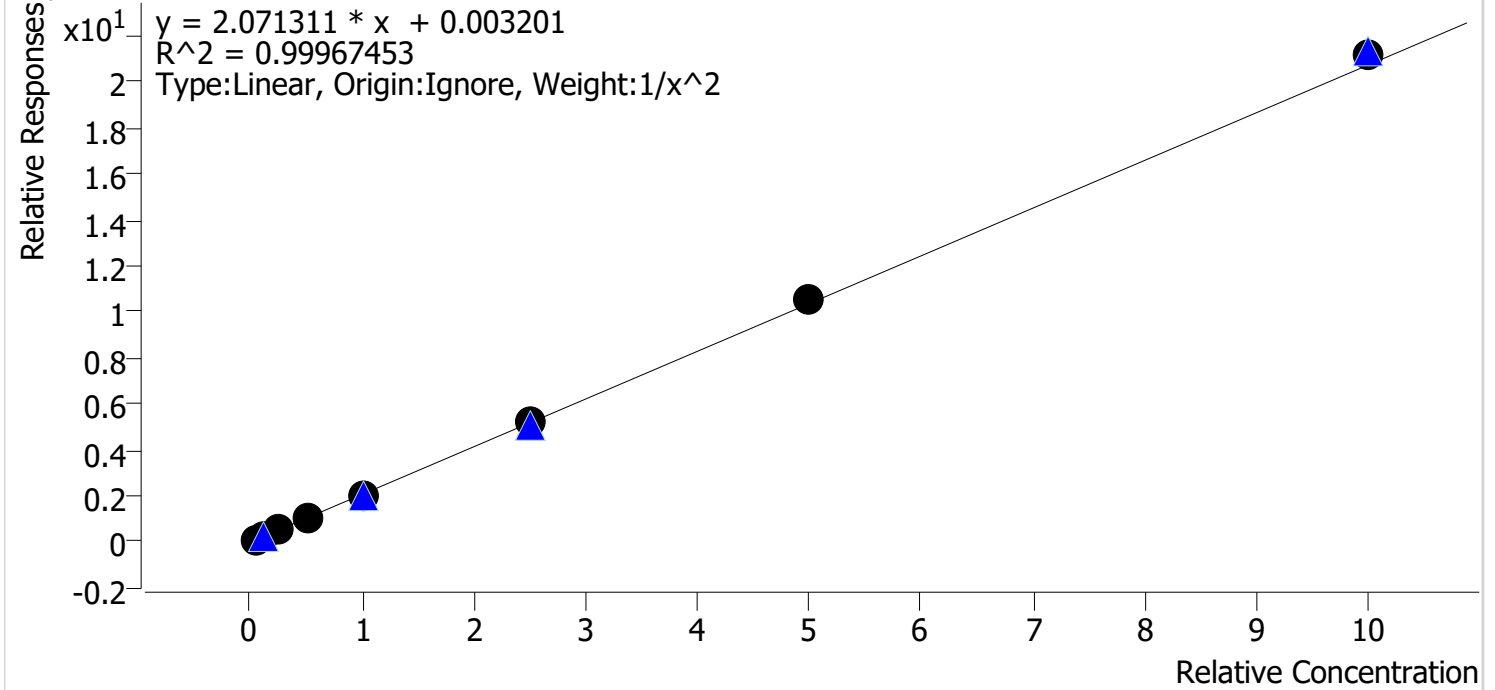
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.2	83.1
cal 2	2	✓	10.0	9.4	93.6
cal 3	3	✓	25.0	26.3	105.0
cal 4	4	✓	50.0	57.1	114.2
cal 5	5	✓	100.0	104.9	104.9
cal 6	6	✓	250.0	257.7	103.1
cal 7	7	✓	500.0	480.6	96.1
cal 8	8	✗	1000.0	721.5	72.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

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

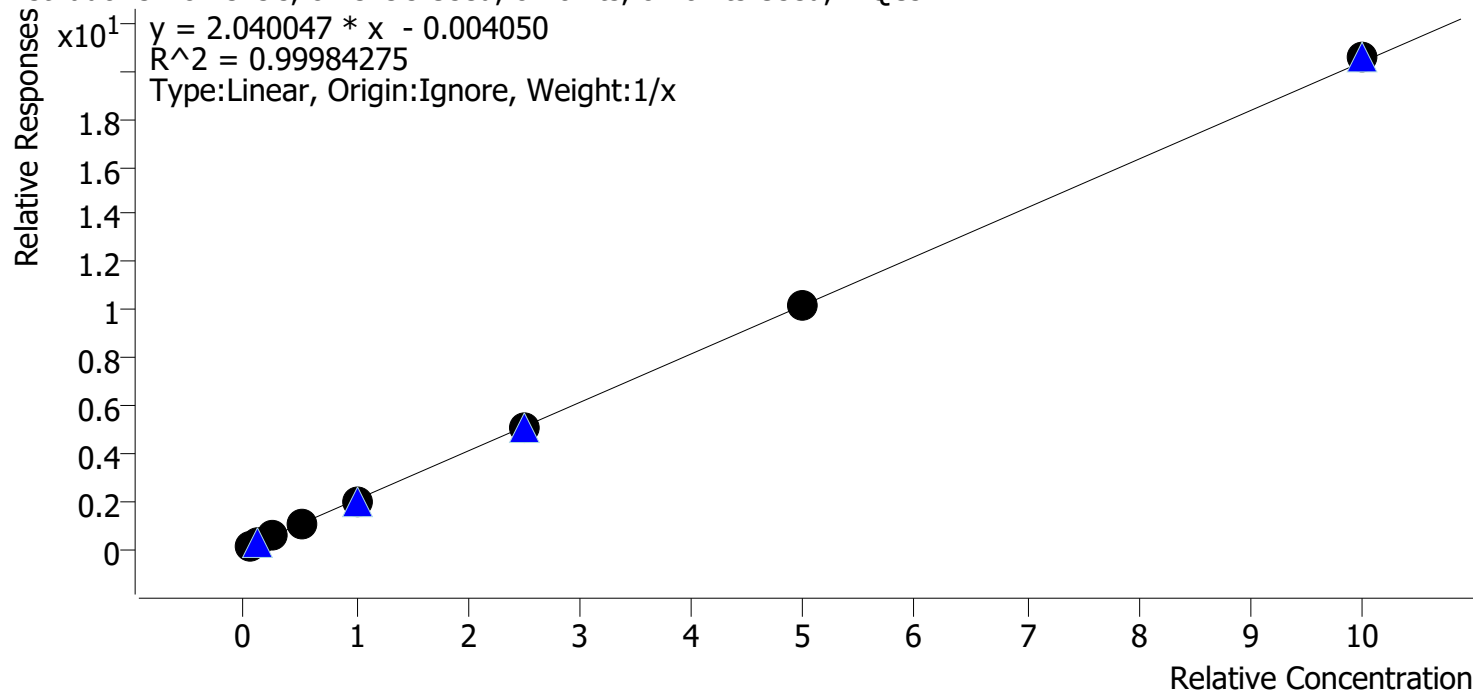


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.1
cal 2	2	✓	10.0	10.0	100.5
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	50.5	101.0
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	248.5	99.4
cal 7	7	✓	500.0	506.2	101.2
cal 8	8	✓	1000.0	1020.1	102.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

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



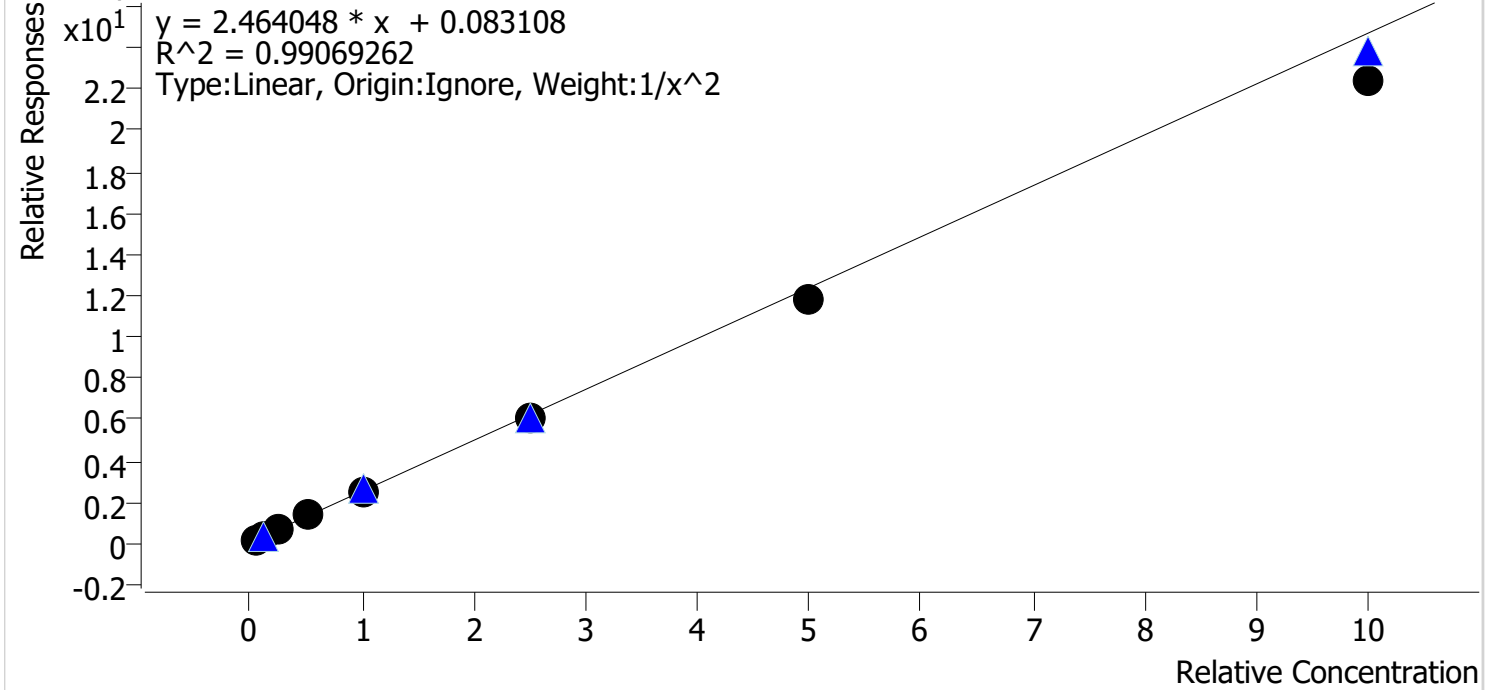
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.5
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	24.2	96.8
cal 4	4	✓	50.0	49.9	99.7
cal 5	5	✓	100.0	96.7	96.7
cal 6	6	✓	250.0	247.5	99.0
cal 7	7	✓	500.0	497.5	99.5
cal 8	8	✓	1000.0	1008.8	100.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** **Methamphetamine-D11**

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



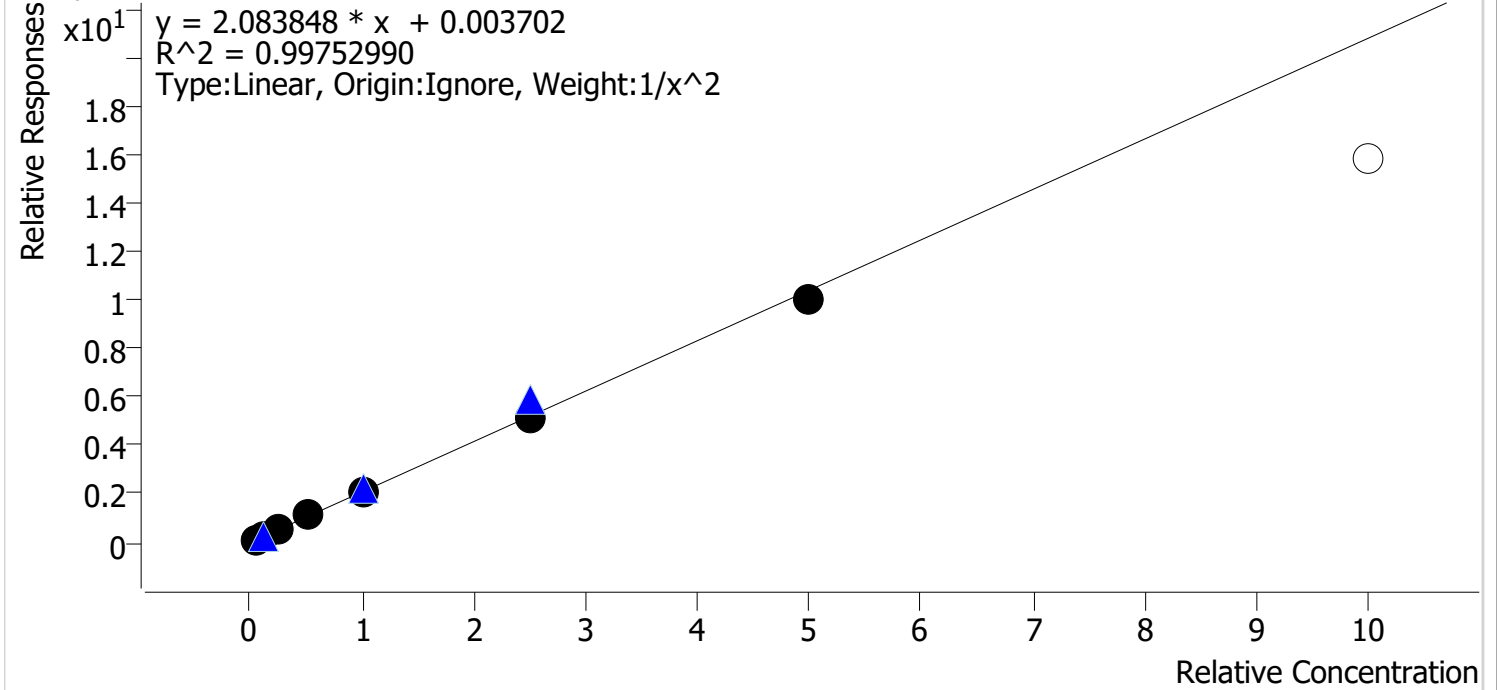
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.6	91.4
cal 2	2	✓	10.0	11.5	114.8
cal 3	3	✓	25.0	25.6	102.6
cal 4	4	✓	50.0	54.3	108.7
cal 5	5	✓	100.0	99.2	99.2
cal 6	6	✓	250.0	243.7	97.5
cal 7	7	✓	500.0	476.5	95.3
cal 8	8	✓	1000.0	905.1	90.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Metoprolol

Internal Standard Carisoprodol-D7

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

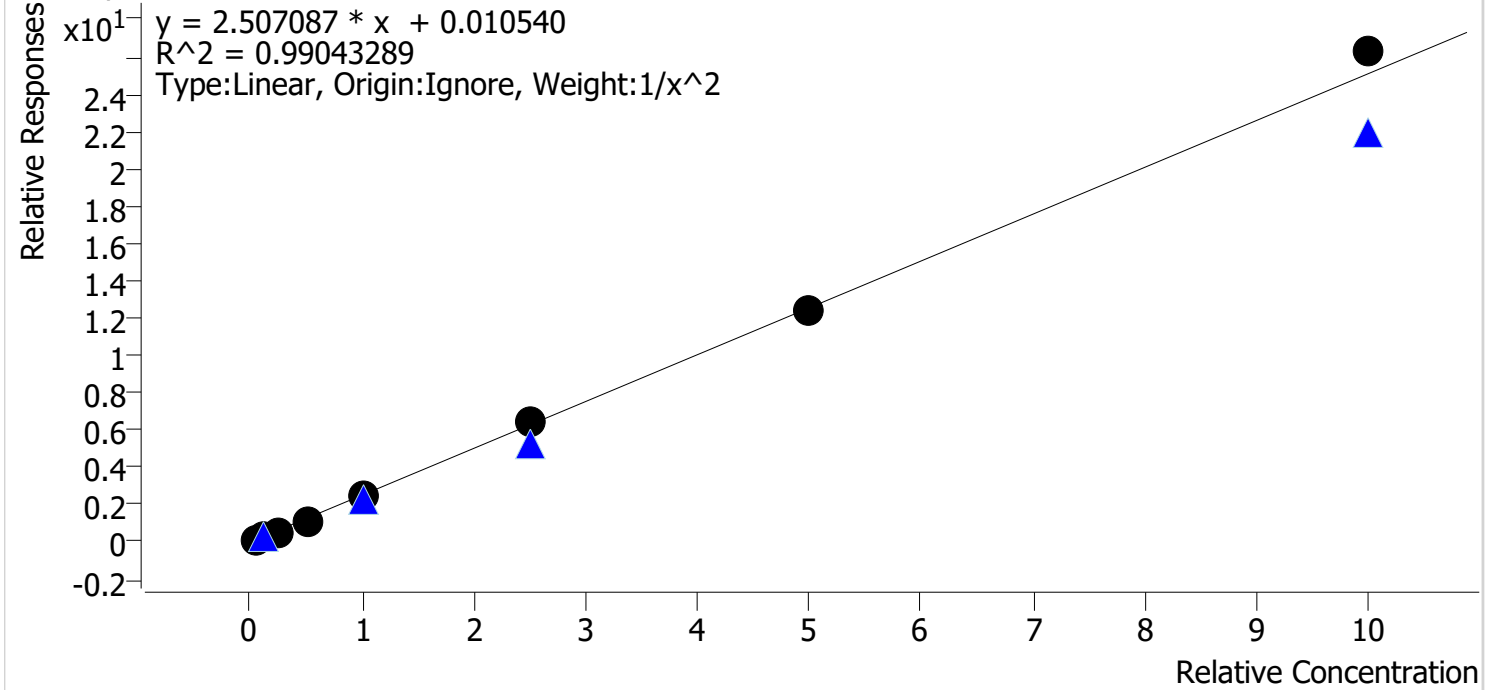


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.3
cal 2	2	✓	10.0	9.5	95.3
cal 3	3	✓	25.0	25.5	102.0
cal 4	4	✓	50.0	53.9	107.7
cal 5	5	✓	100.0	99.4	99.4
cal 6	6	✓	250.0	245.0	98.0
cal 7	7	✓	500.0	481.4	96.3
cal 8	8	✗	1000.0	761.9	76.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** Methadone-D9

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

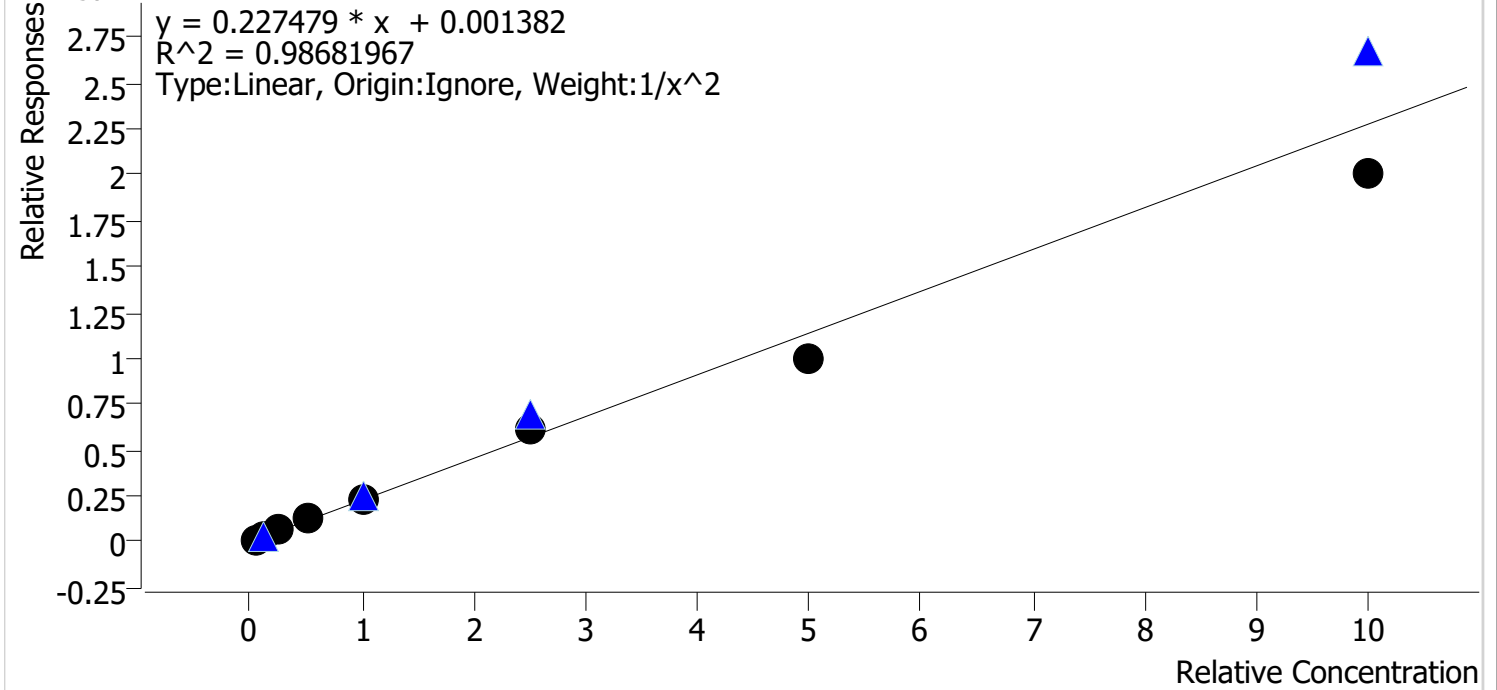


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.6
cal 2	2	✓	10.0	11.6	116.2
cal 3	3	✓	25.0	22.8	91.1
cal 4	4	✓	50.0	45.0	90.0
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	260.1	104.0
cal 7	7	✓	500.0	496.1	99.2
cal 8	8	✓	1000.0	1047.3	104.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.1
cal 2	2	✓	10.0	9.1	91.4
cal 3	3	✓	25.0	27.3	109.4
cal 4	4	✓	50.0	56.4	112.8
cal 5	5	✓	100.0	101.0	101.0
cal 6	6	✓	250.0	271.9	108.8
cal 7	7	✓	500.0	438.5	87.7
cal 8	8	✓	1000.0	878.0	87.8

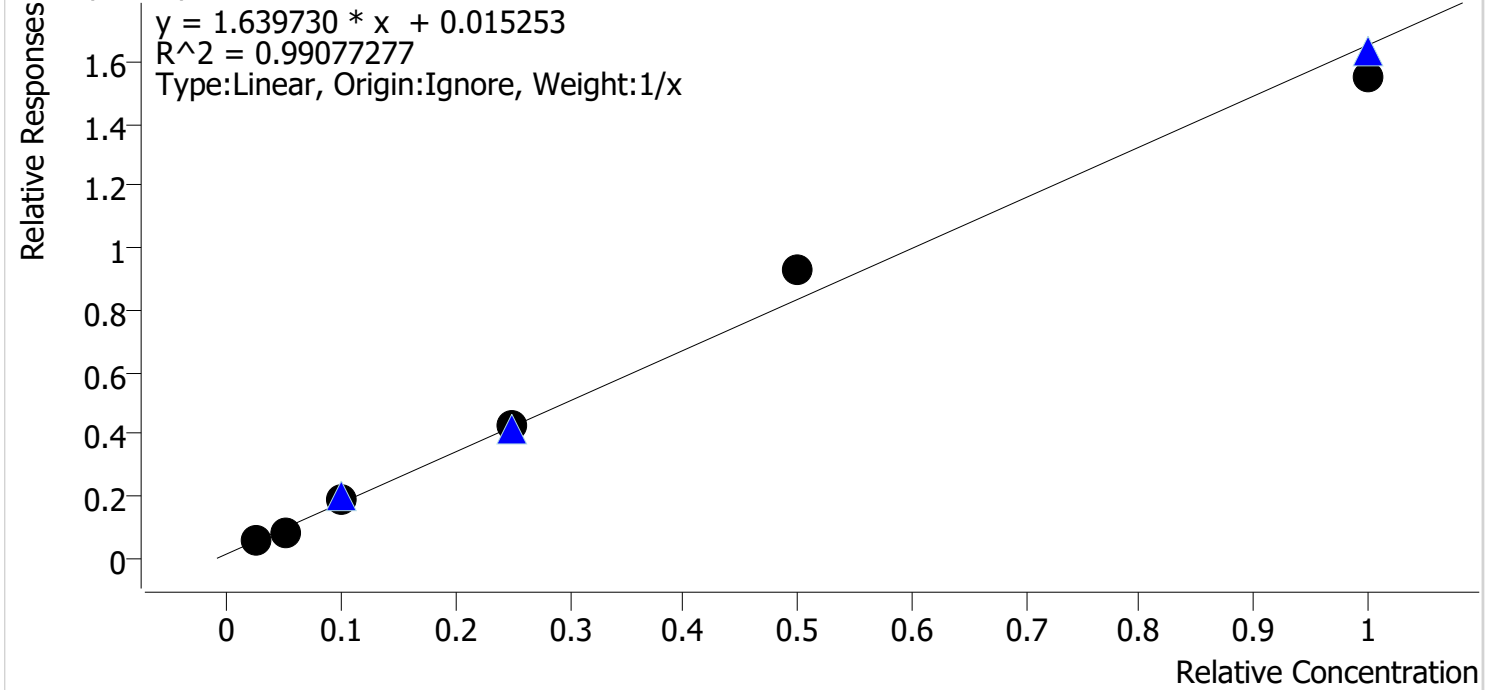
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine

Internal Standard Norbuprenorphine-D3

Norbuprenorphine - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 3 QCs

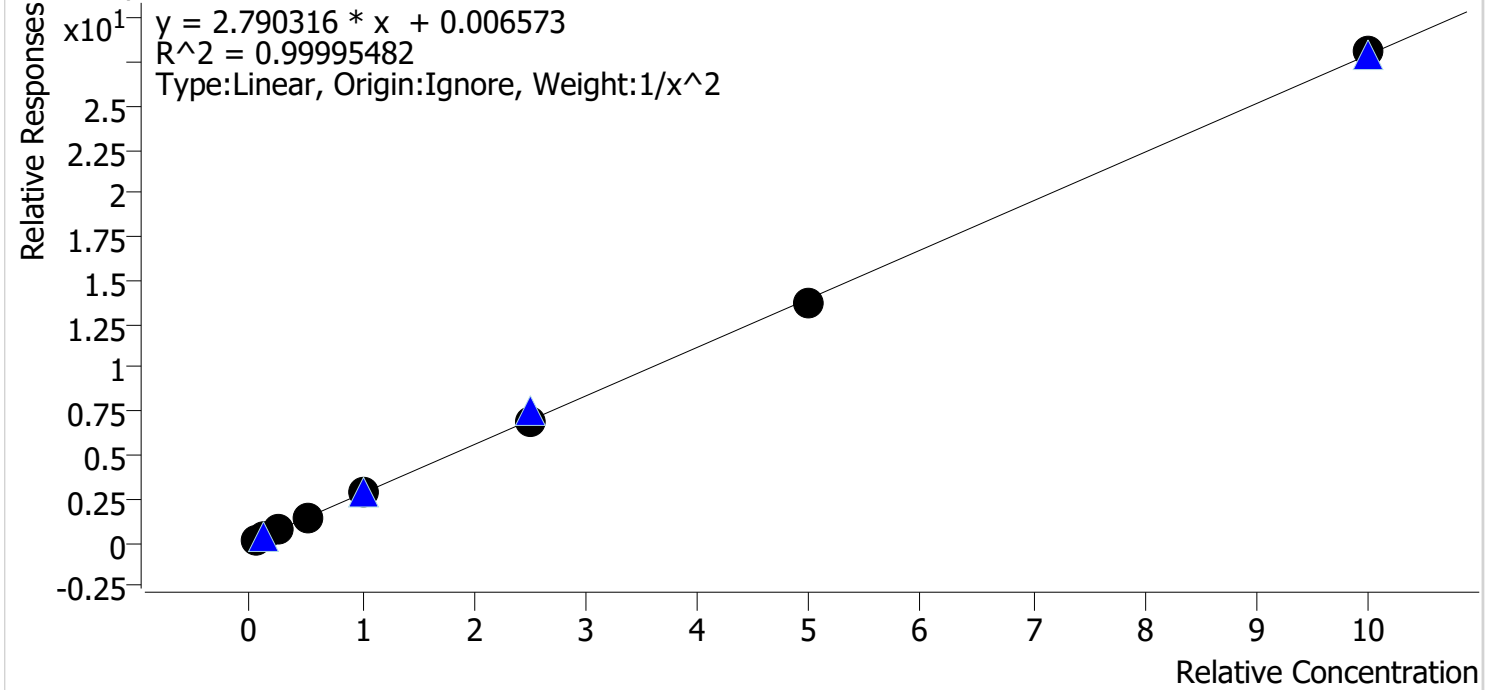


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 3	3	✓	2.5	2.7	109.3
cal 4	4	✓	5.0	3.9	77.1
cal 5	5	✓	10.0	10.6	105.9
cal 6	6	✓	25.0	25.5	102.2
cal 7	7	✓	50.0	55.8	111.6
cal 8	8	✓	100.0	94.0	94.0

Compound Calibration Report

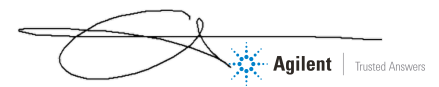
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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



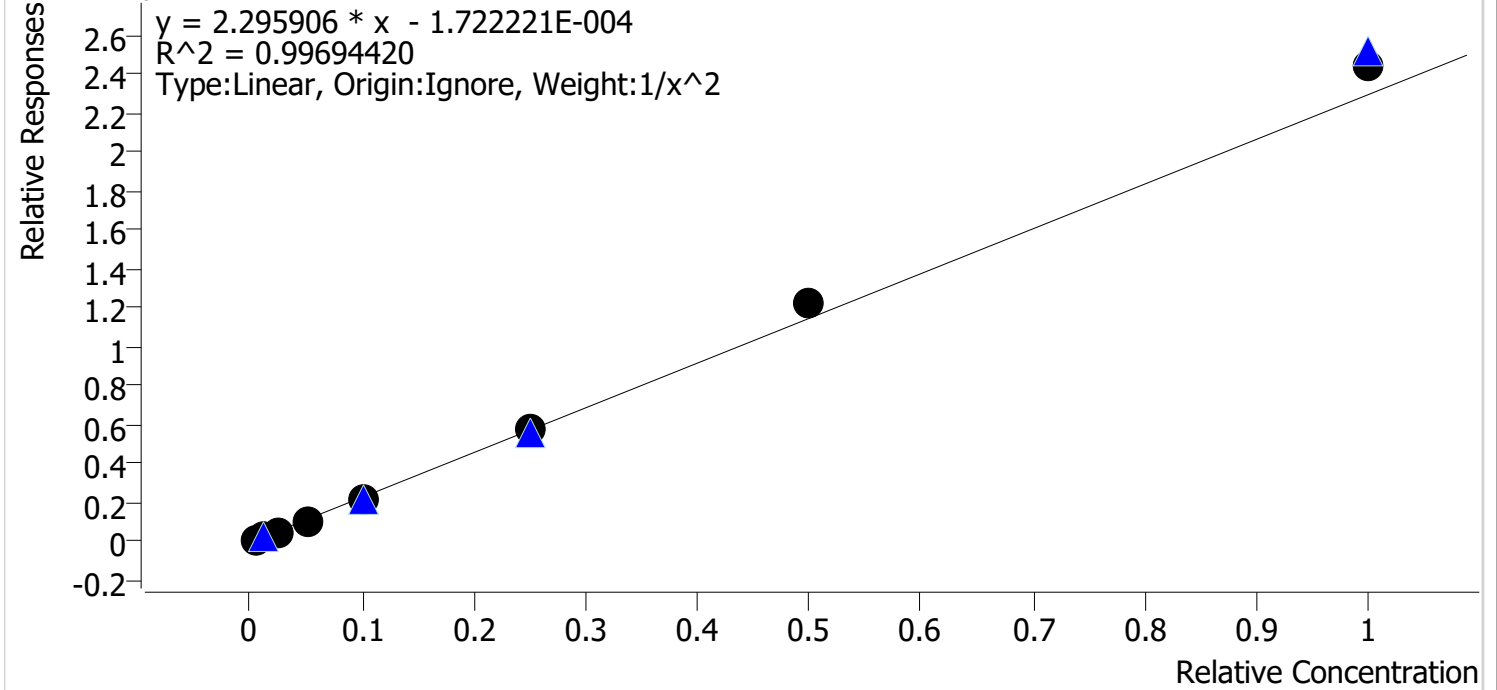
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	25.1	100.4
cal 4	4	✓	50.0	49.8	99.7
cal 5	5	✓	100.0	100.1	100.1
cal 6	6	✓	250.0	250.9	100.3
cal 7	7	✓	500.0	493.9	98.8
cal 8	8	✓	1000.0	1006.7	100.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
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	102.9
cal 2	2	✓	1.0	1.0	97.4
cal 3	3	✓	2.5	2.4	94.8
cal 4	4	✓	5.0	4.8	96.0
cal 5	5	✓	10.0	9.6	96.2
cal 6	6	✓	25.0	24.9	99.4
cal 7	7	✓	50.0	53.3	106.6
cal 8	8	✓	100.0	106.7	106.7

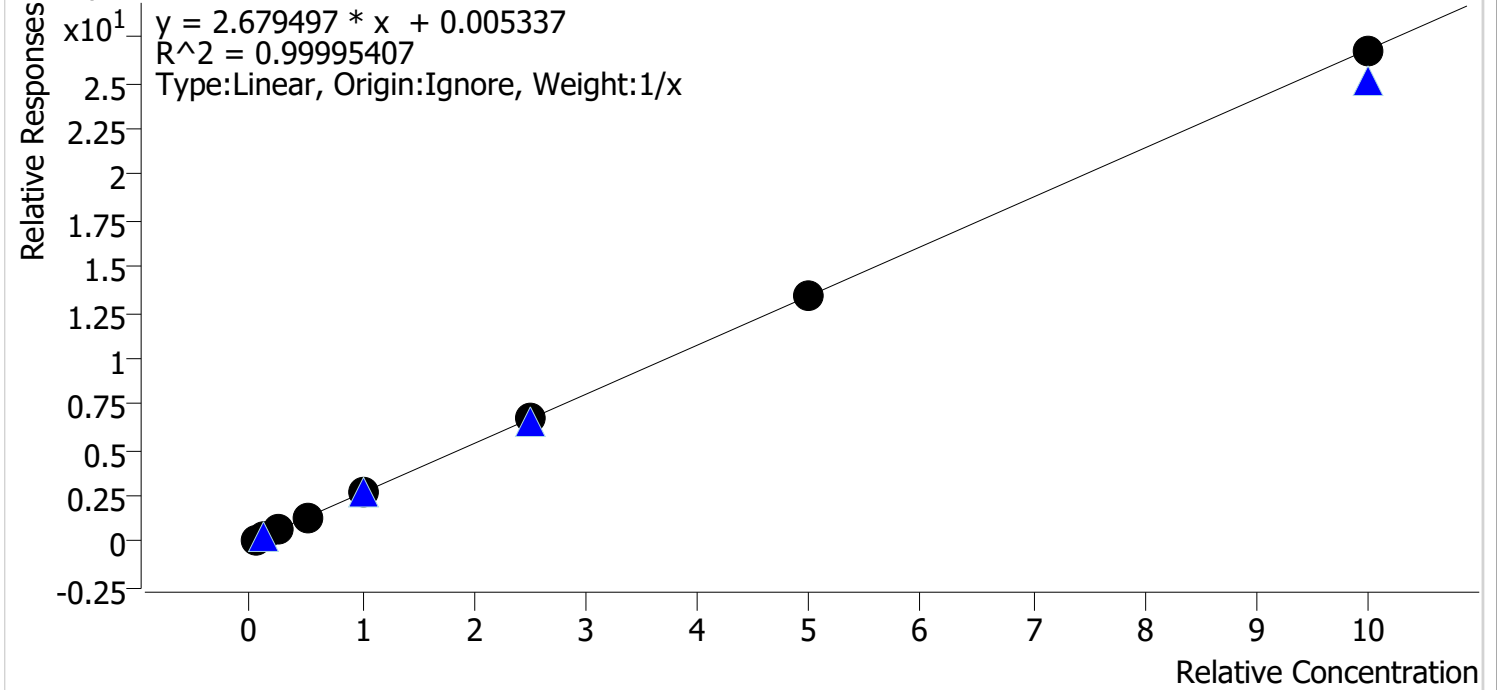
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Noroxycodone

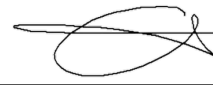
Internal Standard Noroxycodone-D3

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

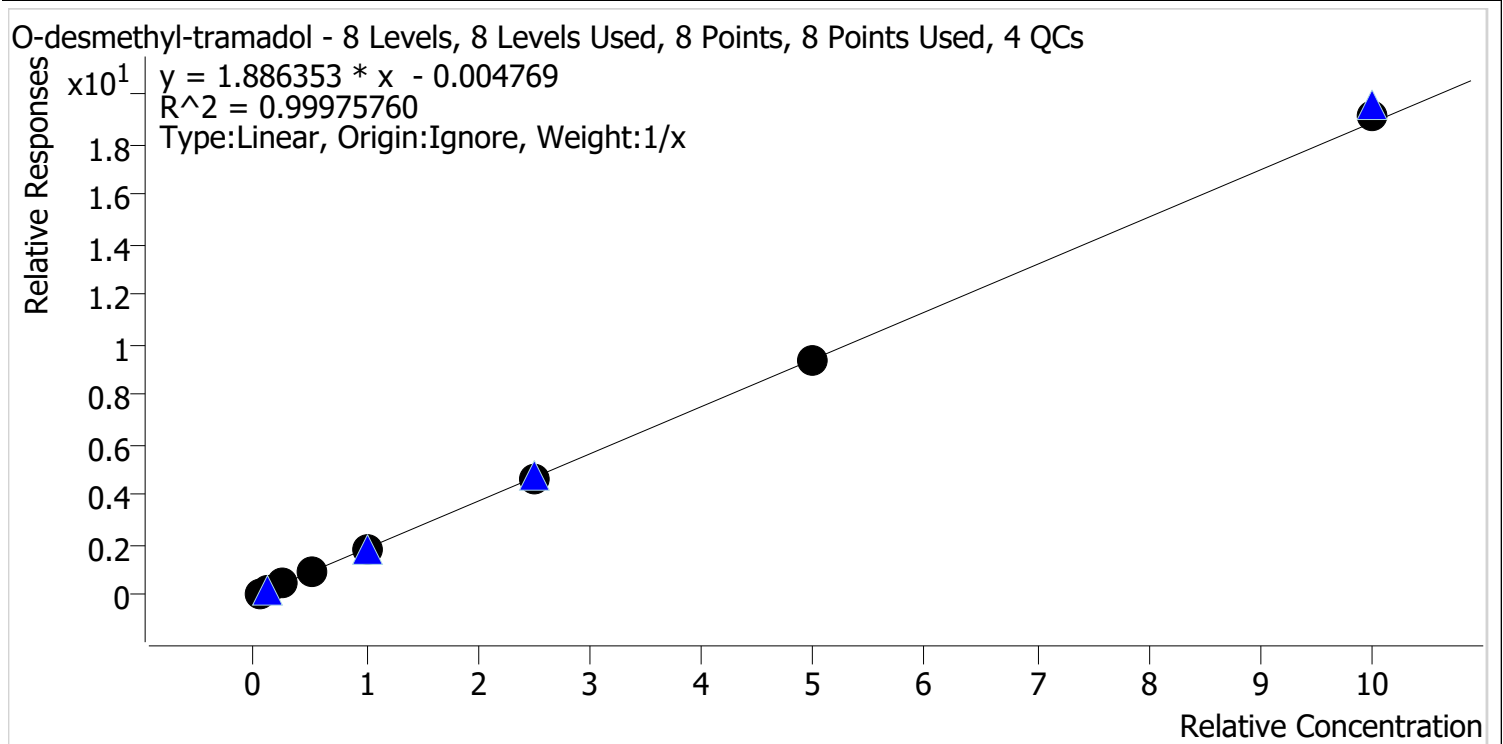


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.8
cal 2	2	✓	10.0	10.2	102.0
cal 3	3	✓	25.0	25.0	99.8
cal 4	4	✓	50.0	51.2	102.4
cal 5	5	✓	100.0	99.4	99.4
cal 6	6	✓	250.0	251.2	100.5
cal 7	7	✓	500.0	502.5	100.5
cal 8	8	✓	1000.0	995.8	99.6

Compound Calibration Report



Batch results	D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin		
Last Cal. Update	11/13/2019 3:49 PM		
Analyst Name	ISP\datastor		
Analyte	O-desmethyl-tramadol	Internal Standard	O-desmethyl-tramadol-D6

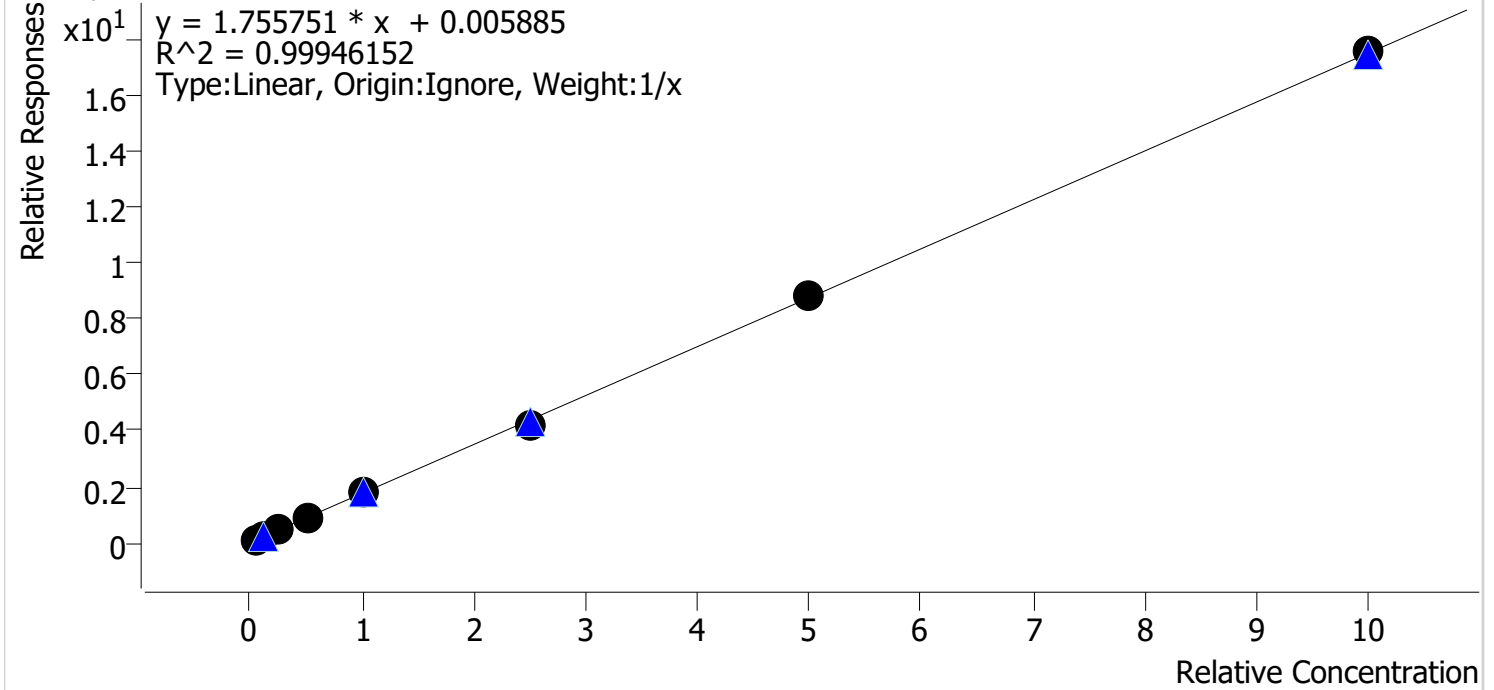


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	106.7
cal 2	2	✓	10.0	10.2	101.9
cal 3	3	✓	25.0	24.4	97.5
cal 4	4	✓	50.0	49.3	98.6
cal 5	5	✓	100.0	96.6	96.6
cal 6	6	✓	250.0	245.0	98.0
cal 7	7	✓	500.0	497.1	99.4
cal 8	8	✓	1000.0	1012.0	101.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



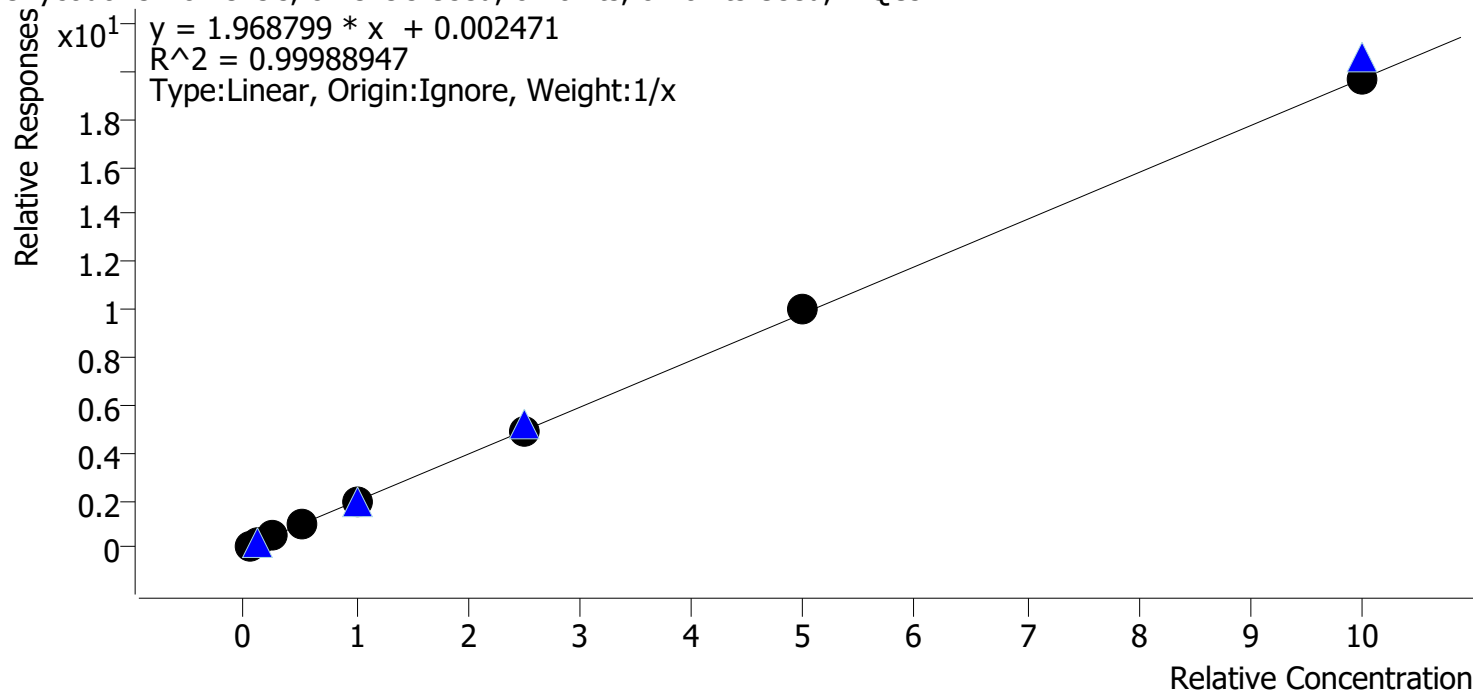
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.3
cal 2	2	✓	10.0	9.9	99.1
cal 3	3	✓	25.0	23.9	95.7
cal 4	4	✓	50.0	51.5	103.0
cal 5	5	✓	100.0	104.7	104.7
cal 6	6	✓	250.0	237.8	95.1
cal 7	7	✓	500.0	503.8	100.8
cal 8	8	✓	1000.0	1003.3	100.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Oxycodone

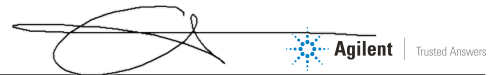
Internal Standard Oxycodone-D6

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



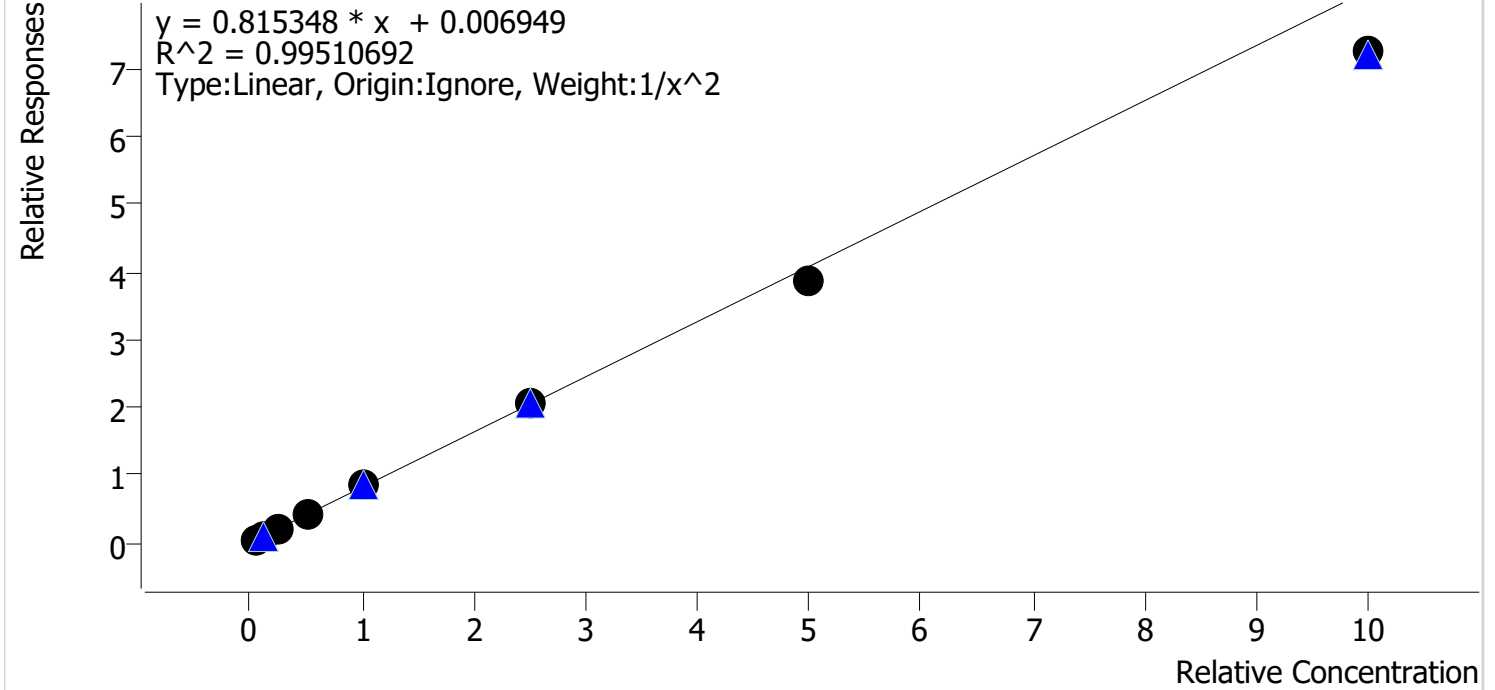
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.9
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	25.0	100.0
cal 4	4	✓	50.0	50.1	100.2
cal 5	5	✓	100.0	97.4	97.4
cal 6	6	✓	250.0	247.7	99.1
cal 7	7	✓	500.0	507.1	101.4
cal 8	8	✓	1000.0	997.6	99.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



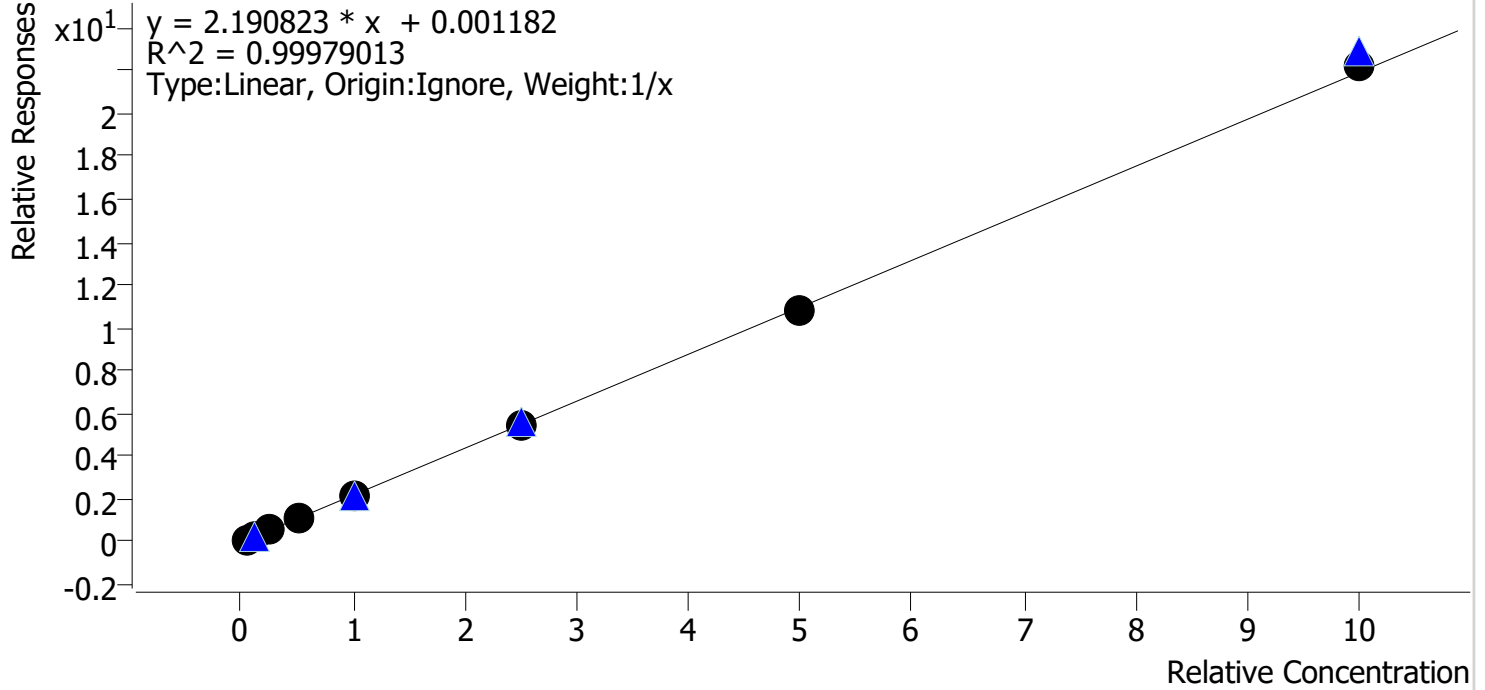
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.6
cal 2	2	✓	10.0	10.1	101.3
cal 3	3	✓	25.0	26.0	104.0
cal 4	4	✓	50.0	54.0	108.0
cal 5	5	✓	100.0	105.1	105.1
cal 6	6	✓	250.0	249.9	99.9
cal 7	7	✓	500.0	475.9	95.2
cal 8	8	✓	1000.0	889.0	88.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Promethazine

Internal Standard Promethazine-D3

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



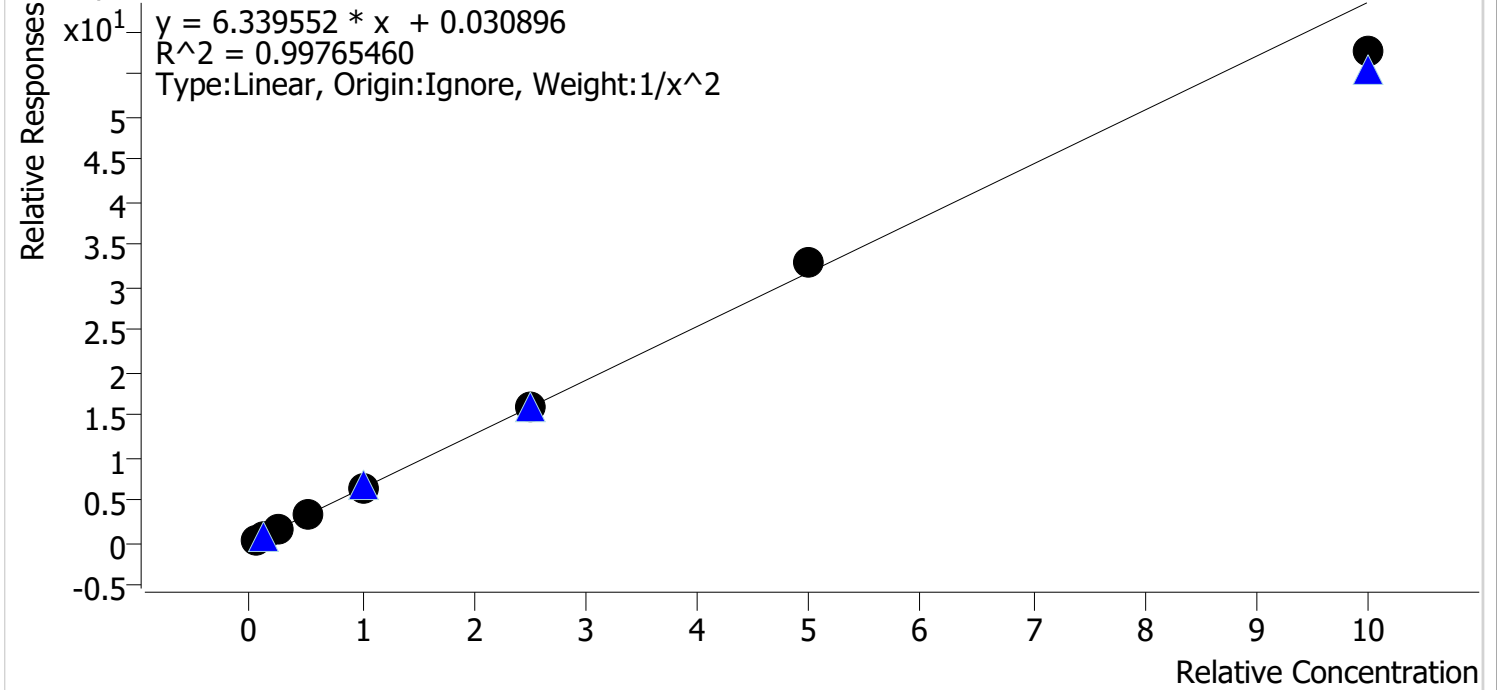
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.8
cal 2	2	✓	10.0	10.2	102.1
cal 3	3	✓	25.0	24.4	97.6
cal 4	4	✓	50.0	50.3	100.6
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	251.0	100.4
cal 7	7	✓	500.0	491.2	98.2
cal 8	8	✓	1000.0	1010.5	101.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Quetiapine

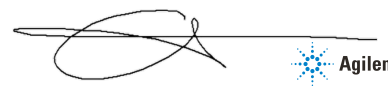
Internal Standard Quetiapine-D8

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



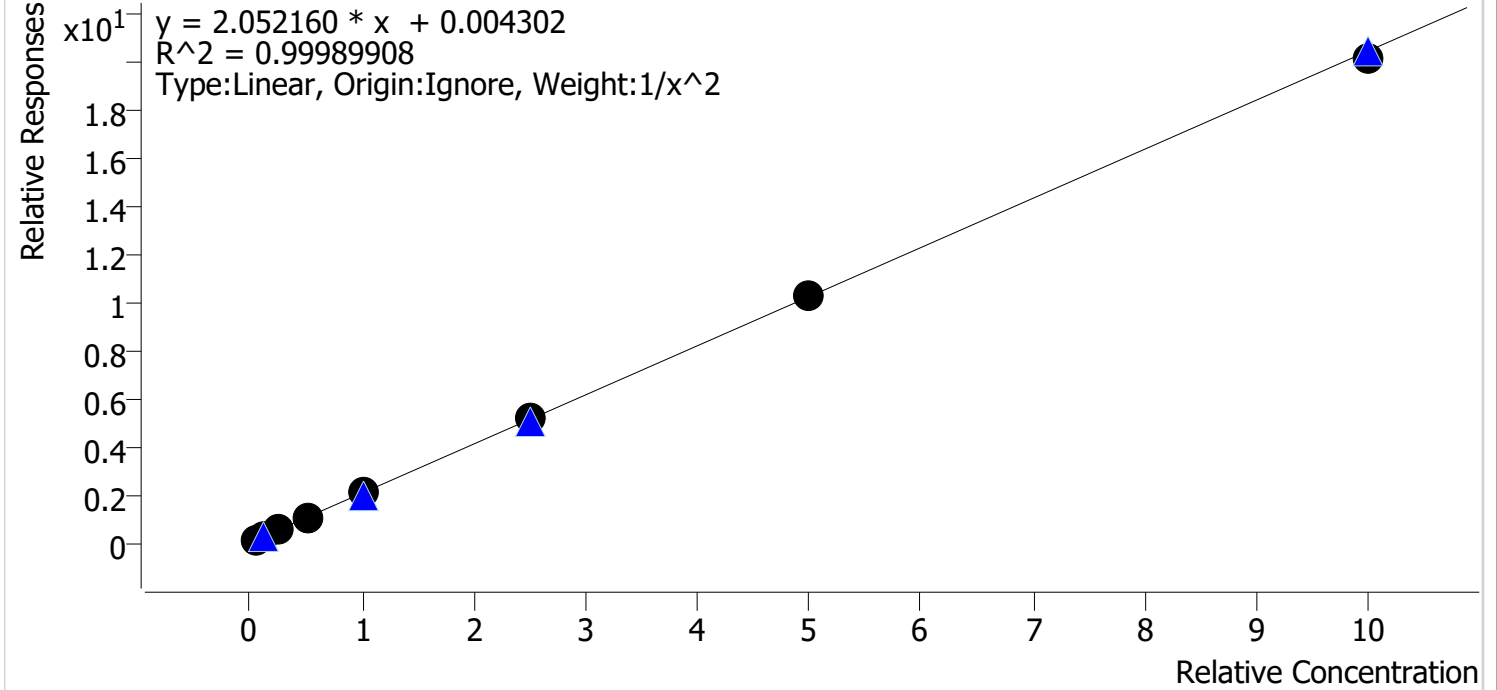
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.5
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.6	102.5
cal 4	4	✓	50.0	50.9	101.8
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	249.5	99.8
cal 7	7	✓	500.0	517.0	103.4
cal 8	8	✓	1000.0	908.6	90.9

Compound Calibration Report



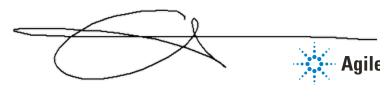
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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	100.0
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	25.0	100.0
cal 4	4	✓	50.0	50.6	101.2
cal 5	5	✓	100.0	99.8	99.8
cal 6	6	✓	250.0	252.0	100.8
cal 7	7	✓	500.0	501.0	100.2
cal 8	8	✓	1000.0	982.8	98.3

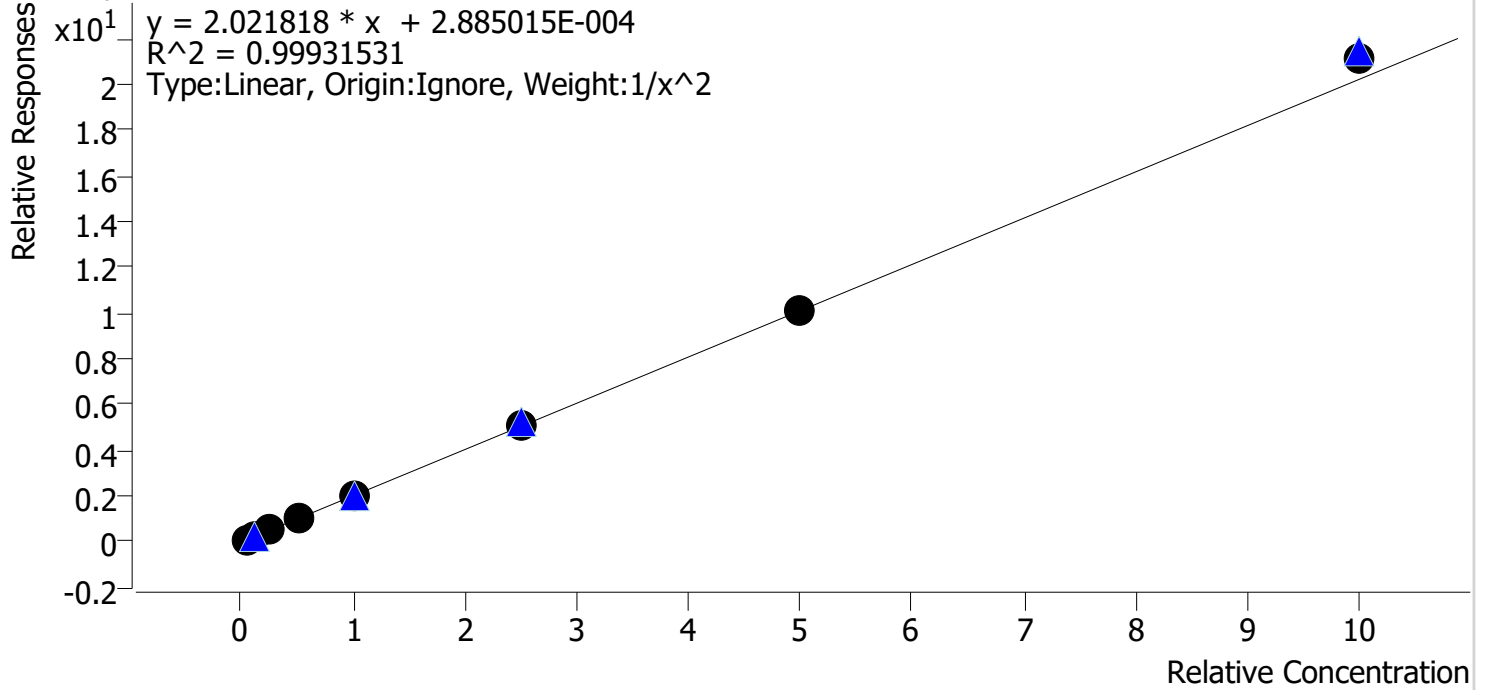
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Temazepam

Internal Standard Temazepam-D5

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

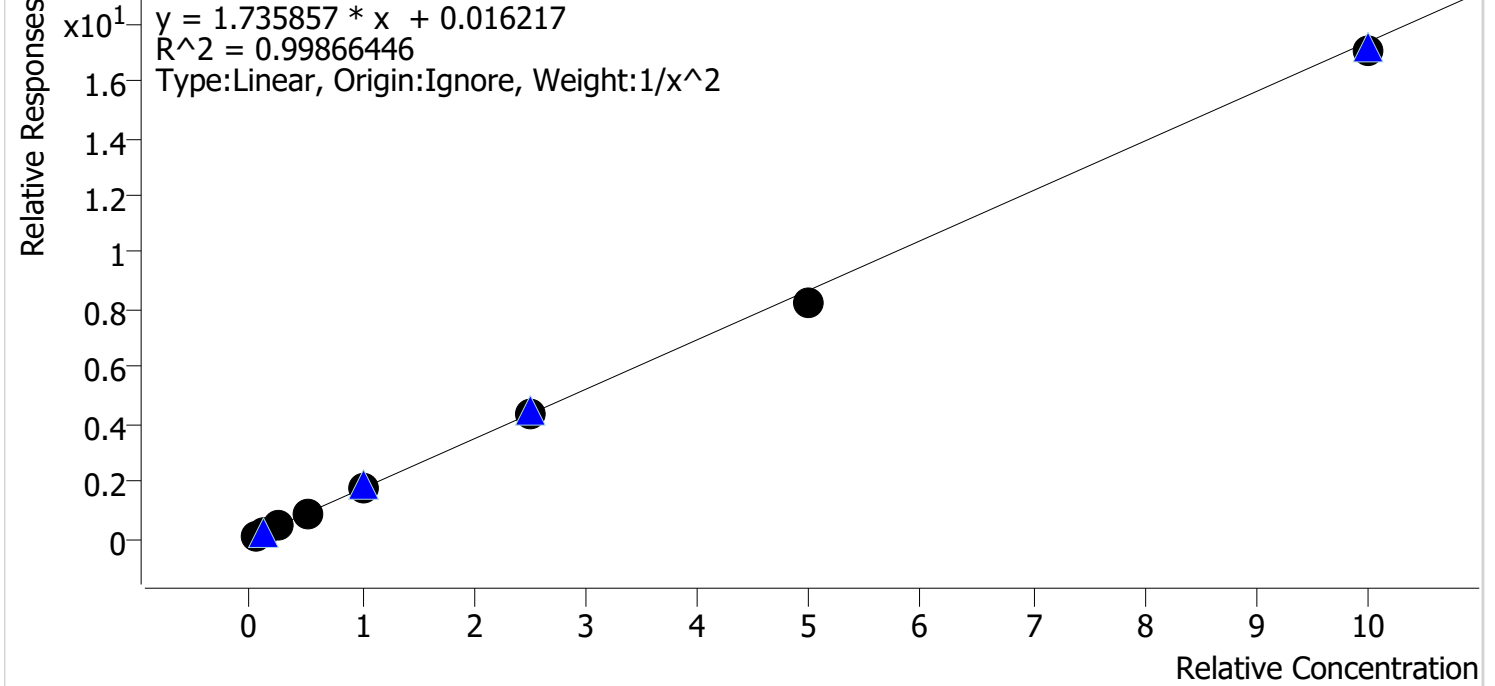


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.0
cal 2	2	✓	10.0	10.1	101.4
cal 3	3	✓	25.0	24.4	97.6
cal 4	4	✓	50.0	49.4	98.9
cal 5	5	✓	100.0	97.5	97.5
cal 6	6	✓	250.0	249.5	99.8
cal 7	7	✓	500.0	501.4	100.3
cal 8	8	✓	1000.0	1045.5	104.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
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	4.9	98.7
cal 2	2	✓	10.0	10.0	100.5
cal 3	3	✓	25.0	25.8	103.2
cal 4	4	✓	50.0	52.1	104.2
cal 5	5	✓	100.0	101.4	101.4
cal 6	6	✓	250.0	249.7	99.9
cal 7	7	✓	500.0	470.6	94.1
cal 8	8	✓	1000.0	980.0	98.0

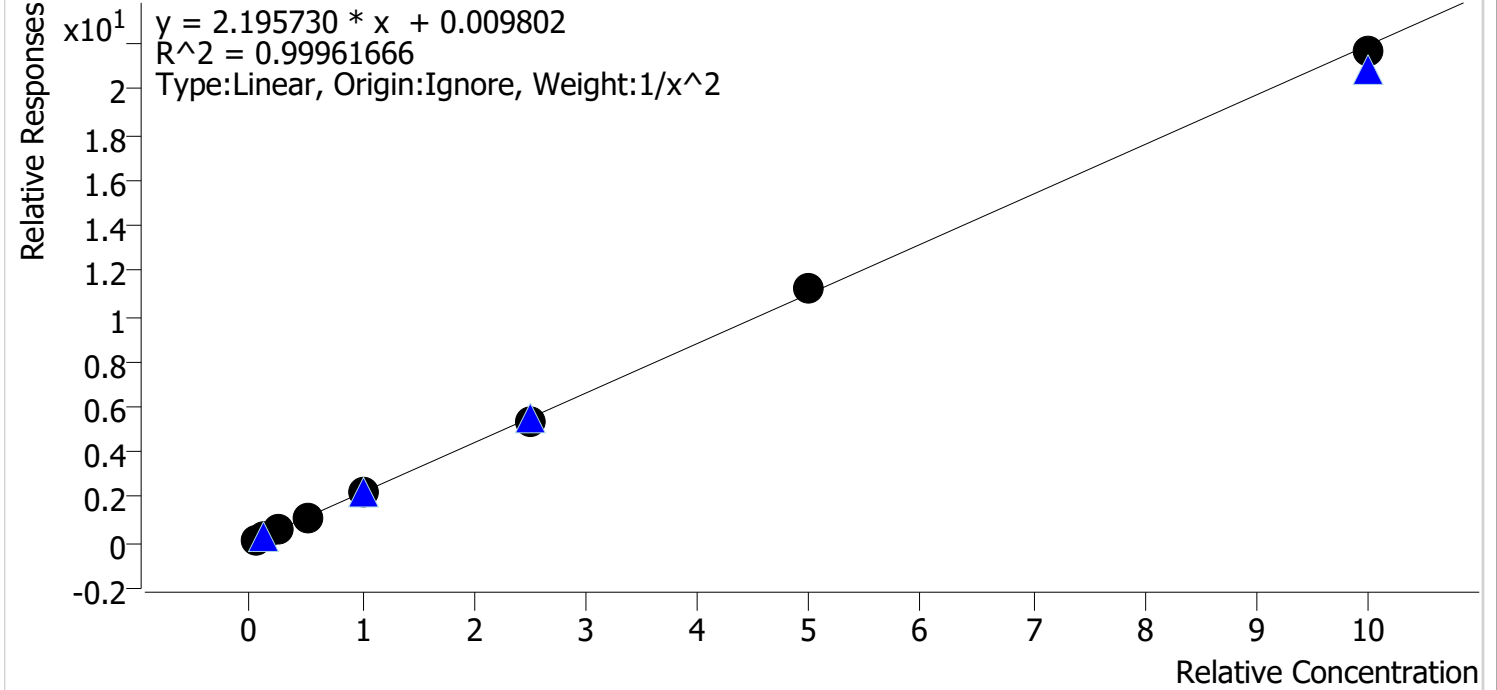
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Trazodone

Internal Standard Trazodone-D6

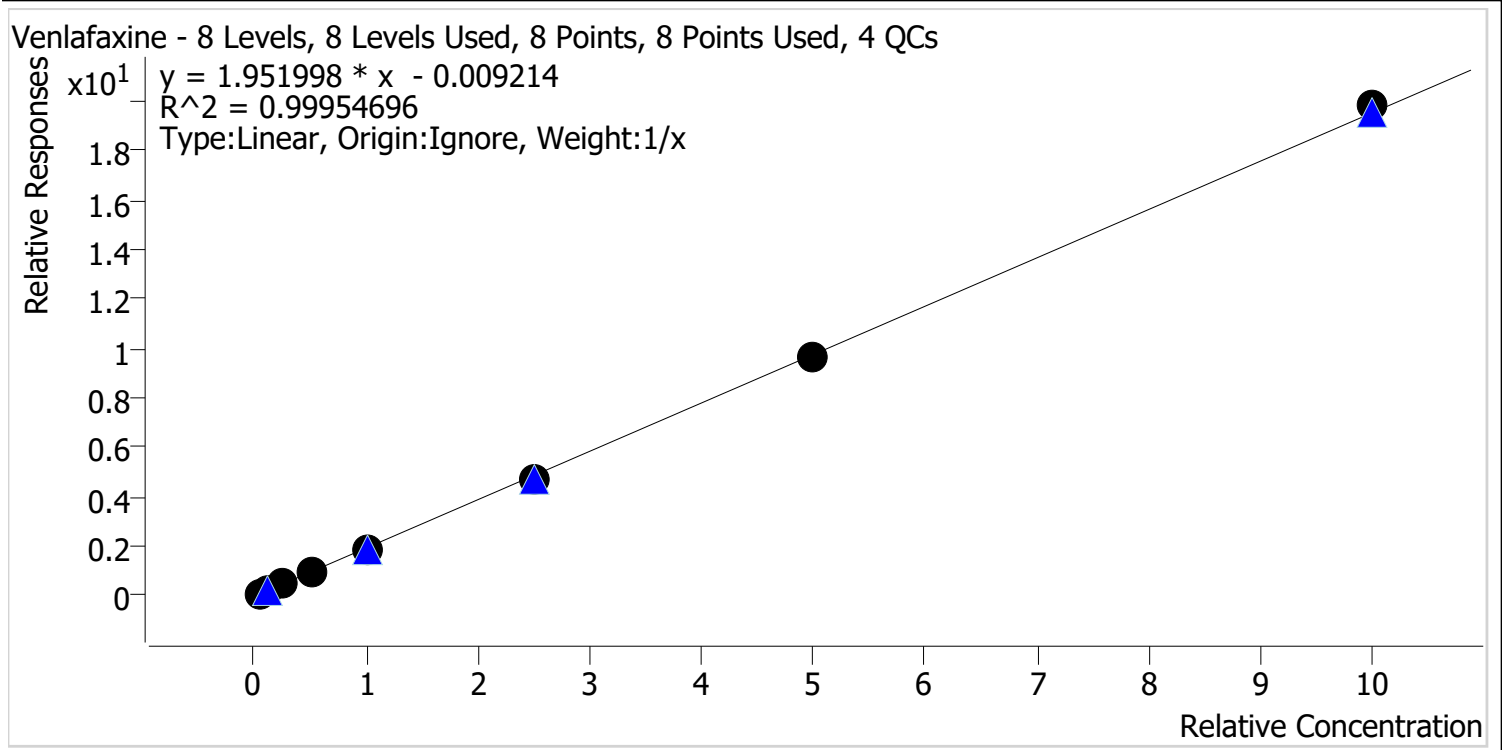
Trazodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	24.9	99.8
cal 4	4	✓	50.0	51.0	102.1
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	245.5	98.2
cal 7	7	✓	500.0	514.3	102.9
cal 8	8	✓	1000.0	987.2	98.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

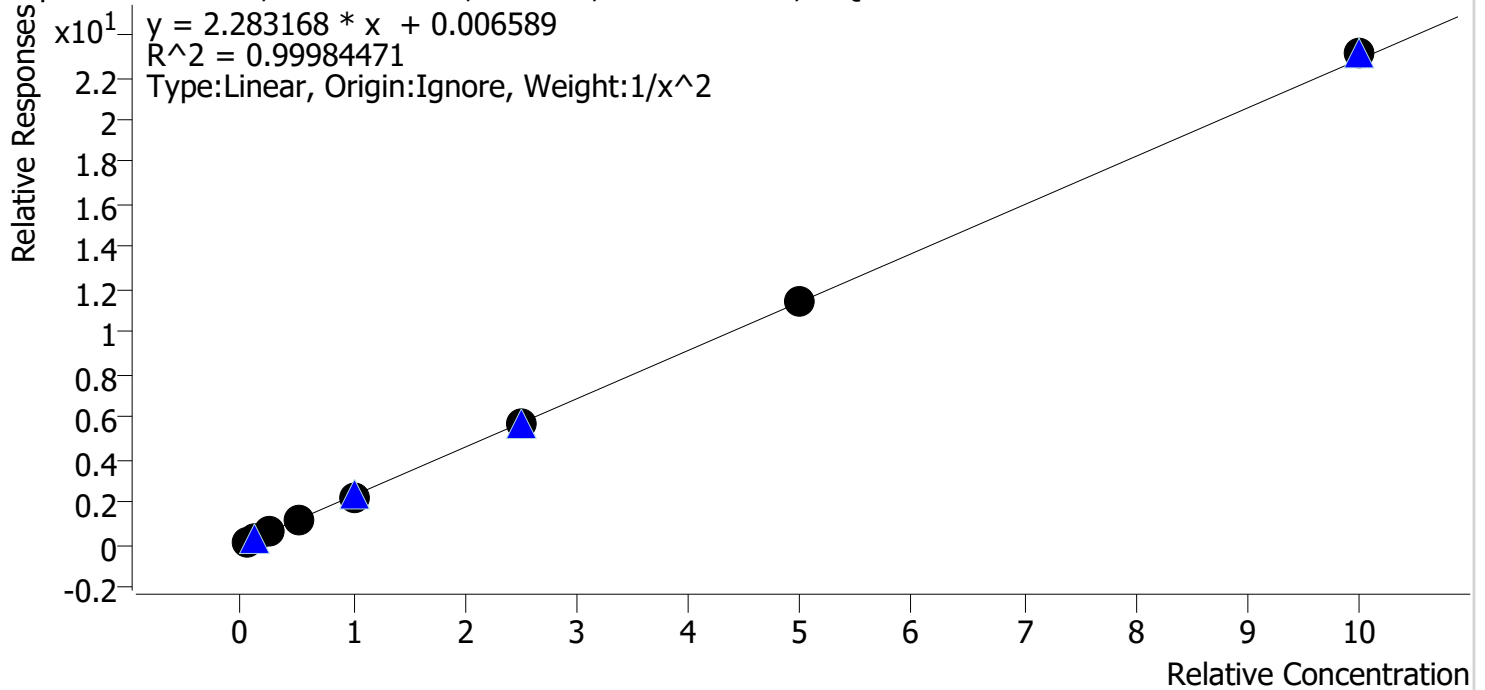


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	109.4
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	24.2	97.0
cal 4	4	✓	50.0	49.0	98.1
cal 5	5	✓	100.0	94.9	94.9
cal 6	6	✓	250.0	242.4	97.0
cal 7	7	✓	500.0	498.7	99.7
cal 8	8	✓	1000.0	1014.9	101.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Last Cal. Update 11/13/2019 3:49 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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



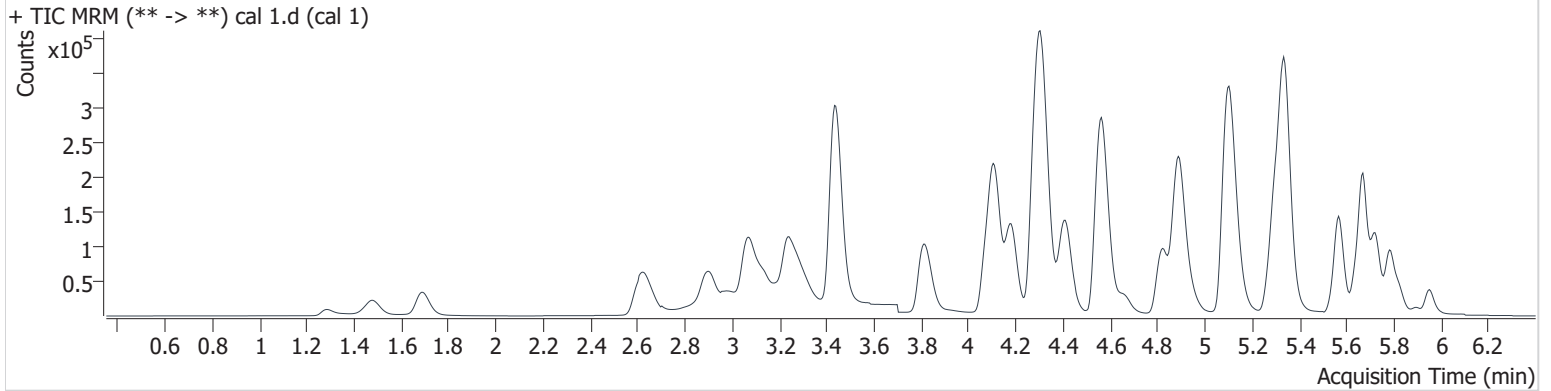
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	25.1	100.6
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	97.9	97.9
cal 6	6	✓	250.0	248.8	99.5
cal 7	7	✓	500.0	498.2	99.6
cal 8	8	✓	1000.0	1011.0	101.1

AM #28 Multi-Drug Quant. Results

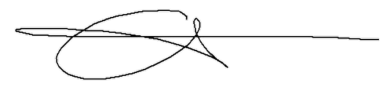
Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 Data File cal 1.d
Type Cal Sample cal 1
Acq. Method mdq p1 cda 121818.m Operator Anne Nord
Sample Position P2-A1 Comment
Injection Volume 2
Acq. Date-Time 11/9/2019 9:30:38 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	1171	11.3	67.2	204.5	60814	0.519 ng/ml
7-aminoclonazepam	4.323	12654	16995.6	85.9	24119.3	102001	4.785 ng/ml
a-hydroxyalprazolam	5.714	651	509.7	55.4	441.0	6529	4.790 ng/ml
alpha-PVP	4.417	46443	1514.4	52.9	947.2	389673	5.300 ng/ml
Alprazolam	5.787	13197	466.6	110.9	5854.0	96477	4.999 ng/ml
Amphetamine	3.147	61569	234.3	56.3	240.9	232843	4.861 ng/ml
Benzoylcegonine	3.946	1073	24.1	9.9	26.7	7120	5.040 ng/ml
Buprenorphine	5.729	402	54.3	8.9 Low	43.9	22492	0.838 ng/ml
Bupropion	4.840	40316	1155.2	57.3	522.4	302122	4.961 ng/ml
Carisoprodol	5.738	9985	3466.9	58.8	119.0	91727	5.015 ng/ml
Citalopram	5.282	24597	4363.1	45.5	12130.4	216313	4.713 ng/ml
Clonazepam	5.638	1822	311.6	35.1	382.3	5966	4.942 ng/ml
Cocaine	4.317	41255	55552.9	45.4	21003.2	635841	5.202 ng/ml
Codeine	2.673	5905	93.3	105.8	12337.4	58468	4.947 ng/ml
Cyclobenzaprine	5.645	19005	676.9	8.7	241.7	150438	4.977 ng/ml
Dextromethorphan	5.321	15513	15587.5	81.0	13898.8	147648	4.992 ng/ml
Dextrorphan	4.182	15476	18061.4	213.9	964.1	351094	5.140 ng/ml
Diazepam	5.957	7887	1613.7	94.9	1828.4	78305	4.755 ng/ml
Dihydrocodeine	2.647	17071	9614.1	62.4	59.4	184049	4.831 ng/ml
Diphenhydramine	5.347	73085	1629.7	35.1	264.3	798834	5.341 ng/ml
Doxylamine	4.579	112821	416.3	95.4	6571.9	931159	5.035 ng/ml
EDDP	5.310	15478	791.1	237.0	1107.1	356894	5.040 ng/ml
Fentanyl	5.127	2121	1120.8	78.8	467.4	211821	0.519 ng/ml
Fluoxetine	5.721	18995	2219.1	9.2	109.7	150900	4.768 ng/ml
Hydrocodone	3.094	15768	311.1	36.7	25.5	147361	4.750 ng/ml
Hydromorphone	1.698	14873	316.7	73.5	1483.8	108025	4.799 ng/ml
Ketamine	4.097	37101	6104.4	36.3	99.5	342189	4.996 ng/ml
Lamotrigine	4.365	4110	2214.8	87.1	1035.5	91727	4.154 ng/ml
Lorazepam	5.761	728	41.7	60.7	2.4 Low	96477	3.552 ng/ml
Meprobamate	4.973	5115	6885.0	30.7	154.1	47885	5.003 ng/ml
Methadone	5.674	42733	1269.0	47.4	8508.9	404754	5.374 ng/ml
Methamphetamine	3.304	75780	18.8	36.2	22.8	387243	4.569 ng/ml
Metoprolol	4.374	10021	2050.5	98.8	1225.0	91727	5.065 ng/ml



AM #28 Multi-Drug Quant. Results

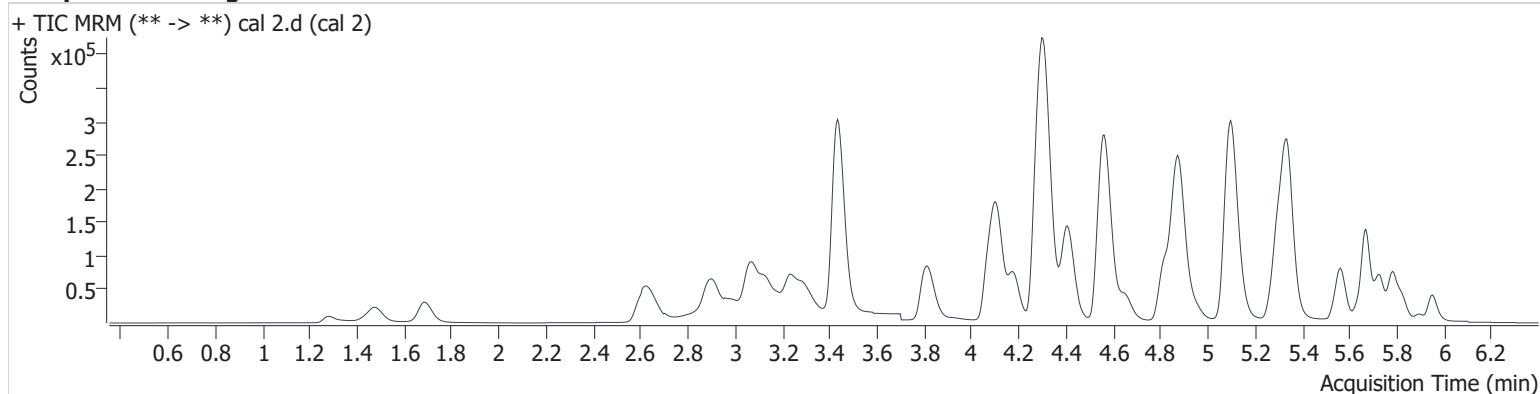
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	52255	60744.9	44.6	1362.4	404754	4.729 ng/ml
Mitragynine	5.271	5213	6191.8	40.2	1371.0	404754	5.054 ng/ml
Morphine	1.297	3615	20706.5	20.2	21.8	9726	4.997 ng/ml
Nordiazepam	5.902	2589	981.6	58.8	476.4	17747	4.993 ng/ml
Norfentanyl	4.137	6450	240.9	40.2	107.7	554353	0.514 ng/ml
Norhydrocodone	3.151	801	542.3	50.7	104.6	54318	7.437 ng/ml
Noroxycodone	3.002	10511	67.9	45.1	1638.6	78638	4.789 ng/ml
O-desmethyl-tramadol	3.440	90840	14073.7	6.4	293.4	947364	5.336 ng/ml
Oxazepam	5.773	960	59.2	73.7	11.8	10124	5.066 ng/ml
Oxycodone	2.920	25415	999.3	29.6	661.5	247254	5.095 ng/ml
Oxymorphone	1.480	12046	394.5	44.2	4968.8	97762	4.372 ng/ml
Phentermine	3.848	17736	14.7	6.1	40.6	379484	4.880 ng/ml
Promethazine	5.573	30106	545.2	33.1	488.1	264690	5.138 ng/ml
Quetiapine	5.565	30886	26308.0	60.3	20807.2	90842	4.876 ng/ml
Sertraline	5.788	9314	13893.8	105.9	10884.5	87094	5.002 ng/ml
Temazepam	5.829	6647	148.8	30.0	55.3	65574	4.999 ng/ml
Tramadol	4.298	95046	90598.0	3.5	22.1	932961	4.935 ng/ml
Trazodone	5.147	32510	51651.0	78.1	29312.3	272205	4.993 ng/ml
Venlafaxine	5.098	72261	2276.0	39.0	384.2	740482	5.471 ng/ml
Zolpidem	4.909	88912	1284.2	29.2	40530.8	737153	4.994 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 **Data File** cal 2.d
Type Cal **Sample** cal 2
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-B1 **Comment**
Injection Volume 2
Acq. Date-Time 11/9/2019 9:41:27 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	1793	907.4	75.6	1033.8	50887	0.968 ng/ml
7-aminoclonazepam	4.318	24423	40287.4	81.6	87.6	100564	10.447 ng/ml
a-hydroxyalprazolam	5.714	1313	1227.8	52.3	204.6	6105	11.161 ng/ml
alpha-PVP	4.417	81267	14143.6	52.6	1059.3	351542	10.107 ng/ml
Alprazolam	5.787	24642	1065.2	112.4	1282.7	88740	10.111 ng/ml
Amphetamine	3.142	84989	469.6	53.1	195.7	163919	10.252 ng/ml
Benzoylcegonine	3.946	2084	2746.1	8.0	243.6	6848	10.052 ng/ml
Buprenorphine	5.709	343	31.1	19.7	147.8	16185	0.967 ng/ml
Bupropion	4.835	66323	1574.1	57.5	601.4	263422	10.016 ng/ml
Carisoprodol	5.738	18039	17300.2	58.8	182.2	86409	9.880 ng/ml
Citalopram	5.282	31333	5788.7	44.9	2293.5	136928	10.042 ng/ml
Clonazepam	5.633	3265	2676.6	35.8	595.8	5600	10.273 ng/ml
Cocaine	4.317	73432	69325.9	46.2	60.5	586689	10.032 ng/ml
Codeine	2.668	9966	87.9	107.0	20269.2	50080	10.149 ng/ml
Cyclobenzaprine	5.640	13780	505.7	10.2	28.8	54253	10.057 ng/ml
Dextromethorphan	5.321	11747	20222.5	71.8	1483.0	55151	10.201 ng/ml
Dextrorphan	4.182	14670	6191.7	218.6	211.9	166946	10.197 ng/ml
Diazepam	5.957	16210	12188.0	84.1	4733.5	76233	10.385 ng/ml
Dihydrocodeine	2.642	25512	4824.1	64.3	137.5	143624	10.195 ng/ml
Diphenhydramine	5.342	95435	1322.6	34.1	1724.3	521608	10.337 ng/ml
Doxylamine	4.574	183711	1252.2	97.0	580.9	795418	9.861 ng/ml
EDDP	5.310	25801	19941.1	241.4	58477.1	305366	9.865 ng/ml
Fentanyl	5.138	1906	10.8	66.6	620.3	102758	0.948 ng/ml
Fluoxetine	5.721	11144	7359.8	9.6	956.3	45047	10.055 ng/ml
Hydrocodone	3.094	24628	588.7	38.0	26.7	112310	11.198 ng/ml
Hydromorphone	1.693	23151	3813.4	72.6	4295.1	78346	10.954 ng/ml
Ketamine	4.092	66290	414.5	36.9	99.3	323517	9.916 ng/ml
Lamotrigine	4.355	7254	1044.1	88.4	3209.5	86409	9.362 ng/ml
Lorazepam	5.761	1376	63.9	50.7	3.7 Low	88740	9.650 ng/ml
Meprobamate	4.973	9977	6402.3	27.1	275.6	47225	10.045 ng/ml
Methadone	5.669	49967	1930.6	47.1	1436.8	250084	9.993 ng/ml
Methamphetamine	3.299	77860	14.4	36.4	40.9	212681	11.484 ng/ml
Metoprolol	4.374	17475	7649.5	96.5	2867.9	86409	9.527 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	75484	88799.6	45.9	40400.1	250084	11.619 ng/ml
Mitragynine	5.260	5547	4273.2	39.0	2333.2	250084	9.142 ng/ml
Morphine	1.287	5850	27170.6	19.7	298.9	7972	10.072 ng/ml
Nordiazepam	5.902	5016	5590.5	61.0	3896.1	17532	10.018 ng/ml
Norfentanyl	4.137	8681	2575.4	41.5	272.1	391289	0.974 ng/ml
Norhydrocodone	3.146	1362	11.7	39.9	303.0	46343	10.790 ng/ml
Noroxycodone	3.002	19280	373.2	42.3	424.4	69172	10.203 ng/ml
O-desmethyl-tramadol	3.440	164886	30302.6	6.5	543.7	879639	10.190 ng/ml
Oxazepam	5.773	1822	39.2	83.5	30.1	10133	9.907 ng/ml
Oxycodone	2.920	48091	769.8	29.9	441.8	240635	10.025 ng/ml
Oxymorphone	1.480	22977	13060.1	44.3	541.9	93604	9.809 ng/ml
Phentermine	3.843	27279	39.9	6.3	122.4	304660	10.129 ng/ml
Promethazine	5.573	21187	858.7	32.8	123.8	94191	10.213 ng/ml
Quetiapine	5.555	46297	50692.3	58.9	28232.0	67325	10.360 ng/ml
Sertraline	5.788	6280	7774.7	105.4	5439.7	30059	9.970 ng/ml
Temazepam	5.829	12805	470.7	27.6	43.4	62362	10.142 ng/ml
Tramadol	4.298	168407	506.5	3.6	101.6	883367	10.048 ng/ml
Trazodone	5.127	43413	40978.1	77.4	63700.8	188987	10.015 ng/ml
Venlafaxine	5.098	128966	657.7	38.9	107.5	676787	10.234 ng/ml
Zolpidem	4.893	163655	987.0	30.7	15886.9	697038	9.995 ng/ml

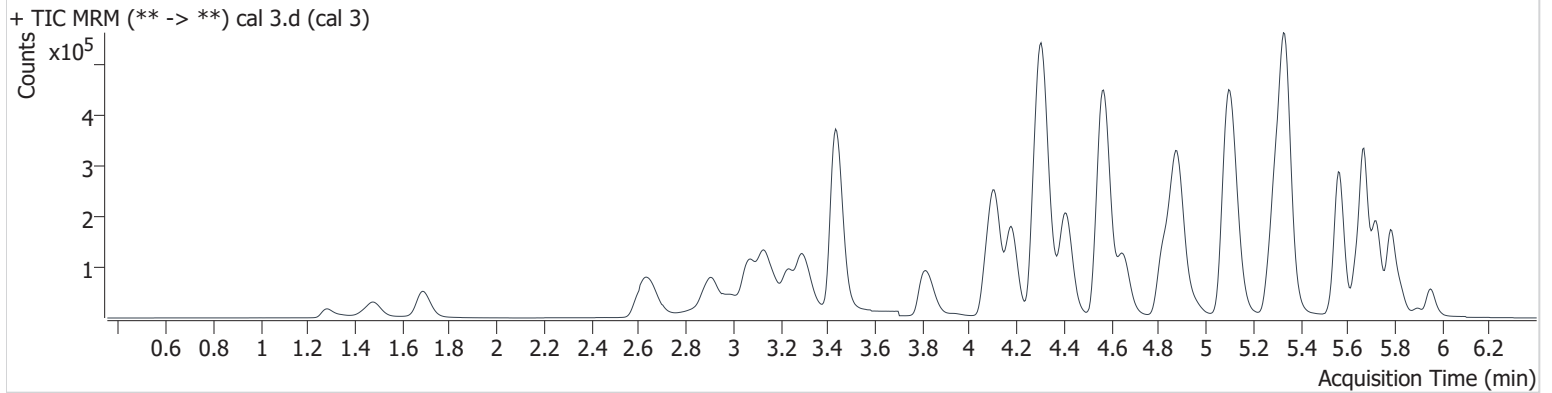
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 11/9/2019 9:52:14 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.209	4656	594.3	76.0	665.1	56225	2.304 ng/ml
7-aminoclonazepam	4.318	57529	83723.3	83.5	25458.6	99290	26.484 ng/ml
a-hydroxyalprazolam	5.714	2523	111.6	65.3	1780.5	5849	23.101 ng/ml
alpha-PVP	4.417	208998	2475.7	52.8	263.1	368035	24.561 ng/ml
Alprazolam	5.787	60087	4138.1	112.7	715.2	88707	24.612 ng/ml
Amphetamine	3.142	253291	511.2	54.2	978.4	200654	26.036 ng/ml
Benzoylcegonine	3.946	5176	121.5	7.9	57.4	6938	24.473 ng/ml
Buprenorphine	5.703	1518	178.8	17.2	220.1	23577	2.667 ng/ml
Bupropion	4.835	183999	2686.7	59.6	1810.3	299401	25.514 ng/ml
Carisoprodol	5.738	43420	49075.3	59.6	183.0	83443	25.053 ng/ml
Citalopram	5.282	125334	6129.8	47.1	247.5	226841	25.026 ng/ml
Clonazepam	5.633	7036	6430.9	31.1	1590.7	5255	24.785 ng/ml
Cocaine	4.317	181040	179982.7	46.2	95947.7	591332	24.536 ng/ml
Codeine	2.668	26186	1252.4	104.2	154.6	54676	25.011 ng/ml
Cyclobenzaprine	5.645	110978	96004.5	9.1	753.1	175368	25.129 ng/ml
Dextromethorphan	5.321	81016	68019.8	77.3	73316.2	161014	24.206 ng/ml
Dextrorphan	4.182	70877	72063.0	215.4	801.5	335383	24.454 ng/ml
Diazepam	5.957	38547	3799.6	86.0	53832.5	76236	25.122 ng/ml
Dihydrocodeine	2.642	75310	478.6	63.1	136.3	171457	26.727 ng/ml
Diphenhydramine	5.342	362466	11266.3	34.9	55396.5	836045	24.023 ng/ml
Doxylamine	4.579	507737	214940.2	97.0	230094.1	890303	24.777 ng/ml
EDDP	5.310	77558	2649.1	232.6	3329.2	364409	24.921 ng/ml
Fentanyl	5.132	11357	3543.1	72.3	9525.0	239737	2.395 ng/ml
Fluoxetine	5.721	112128	142257.1	8.6	8248.8	187537	25.305 ng/ml
Hydrocodone	3.094	69714	1366.7	38.2	706.8	161549	23.386 ng/ml
Hydromorphone	1.693	67428	9300.1	73.1	3290.2	106110	24.211 ng/ml
Ketamine	4.092	164076	44496.8	37.9	671.3	324729	25.234 ng/ml
Lamotrigine	4.355	17604	5271.4	88.8	506.3	83443	26.259 ng/ml
Lorazepam	5.761	3130	66.6	52.9	26.3	88707	24.795 ng/ml
Meprobamate	4.968	23360	4655.8	29.1	561.8	45386	24.695 ng/ml
Methadone	5.669	217144	6053.3	48.3	10370.3	443604	24.193 ng/ml
Methamphetamine	3.299	215280	240.9	43.1	157.0	301133	25.640 ng/ml
Metoprolol	4.374	44651	37133.2	95.9	8263.8	83443	25.501 ng/ml



AM #28 Multi-Drug Quant. Results

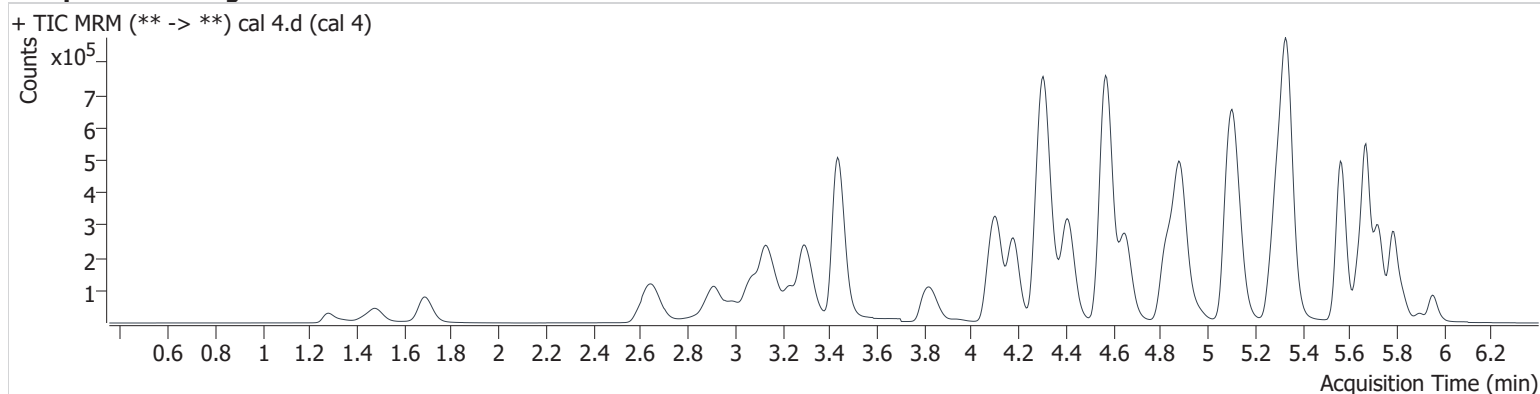
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	257939	271249.4	46.0	36049.9	443604	22.772 ng/ml
Mitragynine	5.260	28212	260.5	39.5	10503.6	443604	27.349 ng/ml
Morphine	1.287	15797	151.7	21.9	15972.6	9023	24.324 ng/ml
Norbuprenorphine	5.045	250	201.5	83.7	296.9	4161	2.732 ng/ml
Nordiazepam	5.902	12602	5287.5	61.2	4313.2	17823	25.104 ng/ml
Norfentanyl	4.137	28964	4131.1	40.4	545.2	534205	2.369 ng/ml
Norhydrocodone	3.140	4042	153.5	40.9	1220.3	52511	21.684 ng/ml
Noroxycodone	3.002	48529	462.3	42.3	803.2	72000	24.955 ng/ml
O-desmethyl-tramadol	3.440	404465	65094.6	6.4	1264.8	888636	24.382 ng/ml
Oxazepam	5.773	4054	128.4	78.0	55.6	9515	23.929 ng/ml
Oxycodone	2.920	115931	2311.8	29.0	1459.6	234400	24.996 ng/ml
Oxymorphone	1.480	55628	233348.9	44.4	121511.4	93468	25.359 ng/ml
Phentermine	3.848	70738	81.5	5.6	123.5	322965	26.011 ng/ml
Promethazine	5.568	177245	95965.0	31.8	3176.4	330886	24.397 ng/ml
Quetiapine	5.555	154719	5912.5	58.5	77634.7	93482	25.620 ng/ml
Sertraline	5.788	55306	33134.3	104.0	72374.0	106944	24.991 ng/ml
Temazepam	5.829	29919	293.7	31.3	196.9	60614	24.399 ng/ml
Tramadol	4.298	413313	763.2	3.5	164.3	890341	25.809 ng/ml
Trazodone	5.122	161638	145466.9	78.0	1004.5	289972	24.940 ng/ml
Venlafaxine	5.093	324435	100095.9	38.9	1238.7	699058	24.248 ng/ml
Zolpidem	4.893	405306	516985.0	30.0	2282.5	698147	25.139 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	cal 4.d
Type	Cal	Sample	cal 4
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-D1	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 10:03:01 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	9666	8746.9	76.5	1593.7	56741	4.763 ng/ml
7-aminoclonazepam	4.318	112013	17877.2	83.6	17060.2	96852	53.986 ng/ml
a-hydroxyalprazolam	5.714	5566	300.1	57.2	948.0	6078	49.847 ng/ml
alpha-PVP	4.412	442833	1244.8	52.7	1663.0	383884	49.703 ng/ml
Alprazolam	5.787	121555	850.7	110.3	1160.1	89116	49.524 ng/ml
Amphetamine	3.142	535119	1003.7	53.6	900.0	210736	53.133 ng/ml
Benzoylcegonine	3.941	10800	9882.1	8.2	737.6	7337	48.170 ng/ml
Buprenorphine	5.709	3349	3491.8	17.8	571.9	25411	5.319 ng/ml
Bupropion	4.835	402042	20092.2	60.0	2439.3	328898	51.482 ng/ml
Carisoprodol	5.738	87920	81985.2	58.0	230.8	82569	51.565 ng/ml
Citalopram	5.277	286127	18607.6	45.8	1659.1	248307	52.791 ng/ml
Clonazepam	5.633	14899	15262.5	34.6	8249.9	5810	48.325 ng/ml
Cocaine	4.312	381443	3098.7	46.1	111215.0	613141	49.855 ng/ml
Codeine	2.668	53021	29029.3	105.1	153.8	53929	51.780 ng/ml
Cyclobenzaprine	5.640	263153	9042.2	9.5	659.9	206874	50.561 ng/ml
Dextromethorphan	5.316	184214	3408.0	77.5	346.8	181350	48.949 ng/ml
Dextrorphan	4.182	153199	134851.6	213.6	8197.0	354459	49.961 ng/ml
Diazepam	5.957	78790	3102.8	85.4	2246.9	77607	50.758 ng/ml
Dihydrocodeine	2.642	156786	57117.4	63.2	244.5	177618	54.752 ng/ml
Diphenhydramine	5.342	832556	1449.0	34.1	16671.5	931828	49.142 ng/ml
Doxylamine	4.574	1113595	89834.1	96.5	1922.1	951629	51.147 ng/ml
EDDP	5.310	173103	5400.7	234.8	598.7	405903	49.983 ng/ml
Fentanyl	5.132	26441	43937.8	73.3	51383.4	269581	4.940 ng/ml
Fluoxetine	5.721	260686	302076.9	8.8	48194.0	217647	51.404 ng/ml
Hydrocodone	3.089	147549	754.6	39.0	797.5	172252	47.795 ng/ml
Hydromorphone	1.693	138659	8182.0	69.7	1561.8	106749	50.084 ng/ml
Ketamine	4.092	345297	1466.8	37.9	1461.6	337803	51.595 ng/ml
Lamotrigine	4.350	36551	3851.2	88.8	16689.2	82569	57.082 ng/ml
Lorazepam	5.761	6307	107.4	57.1	57.8	89116	51.976 ng/ml
Meprobamate	4.973	48015	44555.0	29.6	9549.4	45767	50.495 ng/ml
Methadone	5.669	522701	9567.6	46.9	179760.4	515845	49.869 ng/ml
Methamphetamine	3.299	488109	∞	41.8	204.0	343277	54.333 ng/ml
Metoprolol	4.369	92994	1231.4	96.9	785.2	82569	53.870 ng/ml



AM #28 Multi-Drug Quant. Results

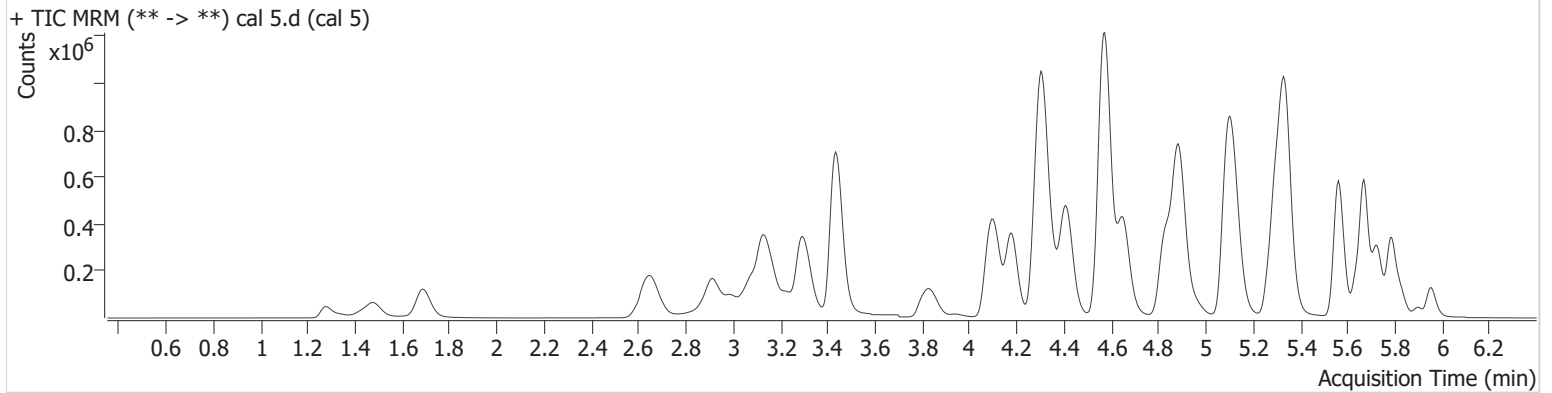
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	587627	3499.8	46.0	64181.1	515845	45.017 ng/ml
Mitragynine	5.260	66888	45889.1	38.8	167.2	515845	56.394 ng/ml
Morphine	1.282	32753	260.9	20.1	688.0	8969	50.967 ng/ml
Norbuprenorphine	5.055	368	509.6	113.2	322.7	4686	3.855 ng/ml
Nordiazepam	5.902	26088	31796.2	64.3	25614.9	18668	49.848 ng/ml
Norfentanyl	4.137	62246	9928.3	41.1	142.9	565769	4.800 ng/ml
Norhydrocodone	3.146	9952	664.9	44.4	1514.9	55963	44.771 ng/ml
Noroxycodone	2.997	103077	1119.3	41.7	1200.7	74822	51.215 ng/ml
O-desmethyl-tramadol	3.440	852158	102464.2	6.4	1455.4	920604	49.324 ng/ml
Oxazepam	5.768	8219	120.7	73.7	104.7	9033	51.489 ng/ml
Oxycodone	2.915	238289	5874.8	29.3	1506.1	240991	50.097 ng/ml
Oxymorphone	1.475	115748	407074.6	44.2	185026.6	95524	52.778 ng/ml
Phentermine	3.843	155324	381.4	5.4	420.8	347392	53.985 ng/ml
Promethazine	5.568	414878	435720.1	32.0	21693.1	376009	50.309 ng/ml
Quetiapine	5.555	334363	211896.4	60.2	33659.8	102646	50.895 ng/ml
Sertraline	5.788	125566	161328.1	101.9	122504.0	120384	50.617 ng/ml
Temazepam	5.829	62664	1400.3	29.5	299.3	62663	49.447 ng/ml
Tramadol	4.293	855281	248872.2	3.5	1121.2	929157	52.094 ng/ml
Trazodone	5.122	364871	469.6	78.4	387218.8	322705	51.047 ng/ml
Venlafaxine	5.093	696293	2537.7	38.4	916.0	734362	49.046 ng/ml
Zolpidem	4.888	851013	204040.2	29.7	298172.9	730861	50.711 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 **Data File** cal 5.d
Type Cal **Sample** cal 5
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-E1 **Comment**
Injection Volume 2
Acq. Date-Time 11/9/2019 10:13:48 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	18119	1555.2	72.0	479.7	52533	9.666 ng/ml
7-aminoclonazepam	4.318	182658	270.8	85.0	33498.2	83703	102.863 ng/ml
a-hydroxyalprazolam	5.714	10176	342.6	59.7	3447.5	5591	99.766 ng/ml
alpha-PVP	4.417	799990	2041.1	52.7	67436.7	357083	96.357 ng/ml
Alprazolam	5.787	220885	2229.2	111.2	4681.2	82866	96.747 ng/ml
Amphetamine	3.137	882373	2166.1	51.8	960.6	179967	103.289 ng/ml
Benzoylcegonine	3.946	20105	20493.8	8.2	1161.1	7012	93.719 ng/ml
Buprenorphine	5.703	4598	732.7	17.0	643.2	19135	9.588 ng/ml
Bupropion	4.835	673472	22758.5	61.1	4330.5	285489	100.039 ng/ml
Carisoprodol	5.738	161326	23232.4	58.5	2225.7	79264	98.823 ng/ml
Citalopram	5.277	421416	3654.4	46.1	118609.3	192785	100.638 ng/ml
Clonazepam	5.638	29499	456.4	33.8	264.8	5241	107.175 ng/ml
Cocaine	4.317	689479	5096.4	45.1	357.4	563279	98.090 ng/ml
Codeine	2.668	94259	18288.0	105.4	29800.1	50067	99.534 ng/ml
Cyclobenzaprine	5.640	305306	12263.8	9.6	273.4	124788	97.292 ng/ml
Dextromethorphan	5.316	248491	207635.4	74.8	162343.4	120341	99.585 ng/ml
Dextrorphan	4.182	265158	104714.3	218.6	105610.4	320164	95.689 ng/ml
Diazepam	5.957	146810	13132.6	86.7	2640.4	75043	98.098 ng/ml
Dihydrocodeine	2.637	280593	410.5	65.0	293.2	170088	103.221 ng/ml
Diphenhydramine	5.342	1220263	4965.3	33.7	21296.3	689667	96.980 ng/ml
Doxylamine	4.574	2041575	2211.8	96.6	2900.0	904926	98.878 ng/ml
EDDP	5.305	299462	14118.5	236.8	11357.4	357067	98.342 ng/ml
Fentanyl	5.132	30273	138.0	73.2	24741.9	164185	9.273 ng/ml
Fluoxetine	5.721	284753	57647.0	8.5	26829.9	121265	101.460 ng/ml
Hydrocodone	3.089	271210	857.7	38.6	479.1	131127	117.377 ng/ml
Hydromorphone	1.688	255336	1041611.3	73.4	9915.5	101777	97.265 ng/ml
Ketamine	4.092	642008	1904.5	37.5	2162.2	324344	100.411 ng/ml
Lamotrigine	4.350	63588	755.4	91.2	49702.6	79264	104.913 ng/ml
Lorazepam	5.761	10891	479.1	54.6	92.9	82866	98.437 ng/ml
Meprobamate	4.968	88708	65871.4	29.1	3133.4	44047	97.075 ng/ml
Methadone	5.669	709123	22570.1	46.8	78853.1	360210	96.698 ng/ml
Methamphetamine	3.299	723695	1346.2	40.8	658.3	286201	99.248 ng/ml
Metoprolol	4.374	164502	1752.3	97.0	27696.4	79264	99.416 ng/ml



AM #28 Multi-Drug Quant. Results

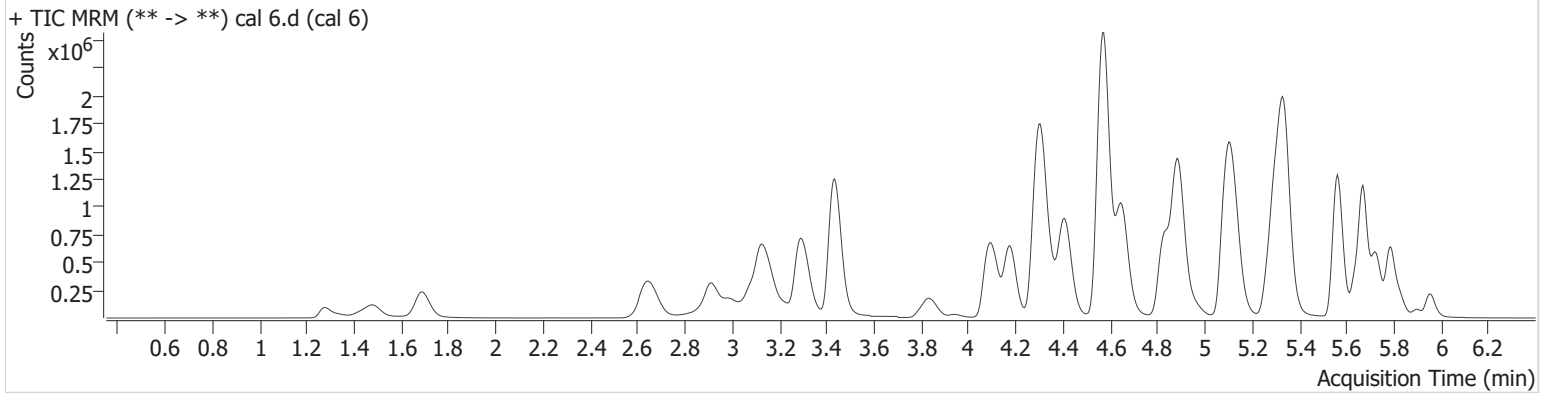
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	907906	5702.0	46.3	73139.3	360210	100.114 ng/ml
Mitragynine	5.260	83283	100082.1	39.4	35989.8	360210	101.031 ng/ml
Morphine	1.282	58821	255703.6	21.3	178.2	8190	100.441 ng/ml
Norbuprenorphine	5.050	622	376.7	91.9	372.1	3291	10.590 ng/ml
Nordiazepam	5.902	51166	86856.2	62.1	20414.8	18283	100.060 ng/ml
Norfentanyl	4.137	115212	19194.6	40.0	1947.4	521799	9.625 ng/ml
Norhydrocodone	3.140	20944	50.0	41.7	242.5	55262	90.828 ng/ml
Noroxycodone	2.997	188596	859.3	42.3	1333.2	70671	99.396 ng/ml
O-desmethyl-tramadol	3.435	1598370	762.4	6.3	4722.3	879741	96.569 ng/ml
Oxazepam	5.768	14403	242.8	71.7	86.2	7809	104.706 ng/ml
Oxycodone	2.915	452517	6764.6	29.9	33482.7	235652	97.410 ng/ml
Oxymorphone	1.475	211991	952639.9	44.7	41.9	89801	103.873 ng/ml
Phentermine	3.843	275651	460.3	5.3	538.7	319203	105.061 ng/ml
Promethazine	5.568	476619	6033.0	32.3	3779.5	223707	97.195 ng/ml
Quetiapine	5.555	558049	379691.5	59.0	35489.7	87114	100.560 ng/ml
Sertraline	5.788	136287	209117.1	99.1	138807.1	66418	99.781 ng/ml
Temazepam	5.829	118072	2577.7	29.9	506.5	59897	97.485 ng/ml
Tramadol	4.298	1551507	46026.7	3.5	159.2	873379	101.404 ng/ml
Trazodone	5.127	540633	107602.4	79.9	92085.3	249204	98.356 ng/ml
Venlafaxine	5.093	1275135	1206.7	38.1	22025.2	691443	94.948 ng/ml
Zolpidem	4.888	1562706	376643.8	30.5	920863.5	696875	97.928 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 **Data File** cal 6.d
Type Cal **Sample** cal 6
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-F1 **Comment**
Injection Volume 2
Acq. Date-Time 11/9/2019 10:24:35 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	39733	380.6	76.6	16036.5	44584	25.010 ng/ml
7-aminoclonazepam	4.313	304270	10224.4	83.4	324859.0	55689	259.238 ng/ml
a-hydroxyalprazolam	5.714	21710	191.2	60.1	550.1	4927	242.565 ng/ml
alpha-PVP	4.412	1754220	683036.3	52.4	1876.9	307356	245.193 ng/ml
Alprazolam	5.787	456706	898.2	111.6	14460.7	66203	250.328 ng/ml
Amphetamine	3.137	1746718	9656.5	51.9	2547.6	149288	247.524 ng/ml
Benzoylcegonine	3.941	48887	71600.3	8.5	144.5	6532	244.466 ng/ml
Buprenorphine	5.703	9970	465.9	16.5	1181.0	16471	23.946 ng/ml
Bupropion	4.835	1548753	5229.7	60.1	25047.2	262498	251.314 ng/ml
Carisoprodol	5.738	333506	32570.3	57.5	4187.6	64371	251.999 ng/ml
Citalopram	5.277	942843	2167.6	46.4	60094.5	174223	249.961 ng/ml
Clonazepam	5.633	59834	3549.8	33.7	11504.0	4670	245.152 ng/ml
Cocaine	4.312	1443477	1452955.2	45.5	220917.4	466040	248.204 ng/ml
Codeine	2.663	189930	13948.8	106.9	29257.5	40558	248.196 ng/ml
Cyclobenzaprine	5.640	757906	658391.9	9.6	1009.8	119814	251.627 ng/ml
Dextromethorphan	5.316	566083	3205.0	77.6	5049.4	110801	246.513 ng/ml
Dextrorphan	4.177	593354	676372.3	216.7	90452.8	275965	248.341 ng/ml
Diazepam	5.957	289128	12131.5	88.0	3274.5	57277	253.610 ng/ml
Dihydrocodeine	2.632	610249	108214.1	63.7	1007.0	151701	253.183 ng/ml
Diphenhydramine	5.342	2888732	2161.9	33.9	1573.5	643982	245.338 ng/ml
Doxylamine	4.573	4705929	3871.4	97.4	5373.8	822754	251.129 ng/ml
EDDP	5.305	738995	289119.1	235.9	178755.7	347042	249.765 ng/ml
Fentanyl	5.132	79972	7240.8	73.7	57320.0	158318	25.374 ng/ml
Fluoxetine	5.721	684278	563465.3	8.6	37114.6	117449	252.784 ng/ml
Hydrocodone	3.084	607623	595.5	38.8	1187.7	145451	238.499 ng/ml
Hydromorphone	1.688	567394	3457076.5	73.6	11438.1	89094	247.781 ng/ml
Ketamine	4.092	1395590	1317.1	38.1	13794.9	283047	250.912 ng/ml
Lamotrigine	4.350	125557	1872.6	87.6	4552.5	64371	257.668 ng/ml
Lorazepam	5.761	19939	1892.8	56.6	117.9	66203	228.451 ng/ml
Meprobamate	4.968	190155	139753.1	29.7	43485.6	36920	248.503 ng/ml
Methadone	5.669	1750301	25744.6	46.1	3992.5	346931	247.502 ng/ml
Methamphetamine	3.294	1548592	10188.0	41.8	1131.1	254319	243.747 ng/ml
Metoprolol	4.369	328854	94824.3	97.1	2110.0	64371	244.979 ng/ml



AM #28 Multi-Drug Quant. Results

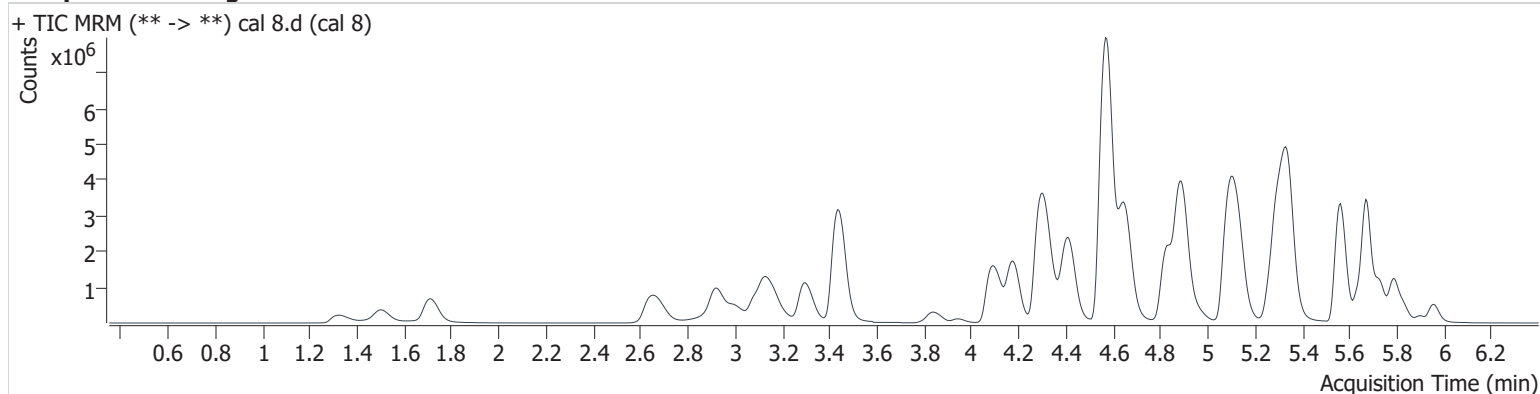
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	2265894	1990.1	45.7	445063.6	346931	260.091 ng/ml
Mitragynine	5.260	215067	239018.2	38.7	1174.4	346931	271.907 ng/ml
Morphine	1.277	127295	295255.4	21.0	59201.2	6957	256.196 ng/ml
Norbuprenorphine	5.045	1366	1490.3	97.7	1638.9	3147	25.546 ng/ml
Nordiazepam	5.902	99965	24848.0	60.5	65195.8	14268	250.859 ng/ml
Norfentanyl	4.132	253922	1203.6	40.0	5782.2	445002	24.861 ng/ml
Norhydrocodone	3.140	56145	3080.6	42.2	1398.6	51011	256.046 ng/ml
Noroxycodone	2.992	393393	979.9	42.6	1253.4	58411	251.151 ng/ml
O-desmethyl-tramadol	3.435	3626719	699608.3	6.3	8654.1	785516	245.010 ng/ml
Oxazepam	5.768	25539	5463.9	74.2	308.0	6110	237.753 ng/ml
Oxycodone	2.910	1023144	21130.0	29.5	1050.7	209703	247.692 ng/ml
Oxymorphone	1.475	462033	1474933.1	44.6	487045.1	78698	259.977 ng/ml
Phentermine	3.843	549952	1395.0	5.1	614.0	269027	249.866 ng/ml
Promethazine	5.568	1261444	1062395.1	31.0	600961.7	229308	251.043 ng/ml
Quetiapine	5.555	1309706	2651.7	59.5	7170.5	82638	249.510 ng/ml
Sertraline	5.788	294178	449378.5	101.9	172320.6	56836	252.006 ng/ml
Temazepam	5.829	235911	5324.6	29.9	363.5	46765	249.495 ng/ml
Tramadol	4.293	3338744	368858.8	3.4	263.9	767448	249.688 ng/ml
Trazodone	5.127	1315622	500786.2	79.7	74996.6	243623	245.497 ng/ml
Venlafaxine	5.093	2841798	2213.1	38.6	26598.8	601722	242.418 ng/ml
Zolpidem	4.888	3531990	2991.3	30.1	3007.8	621031	248.808 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument 69679 **Data File** cal 8.d
Type Cal **Sample** cal 8
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-H1 **Comment**
Injection Volume 2
Acq. Date-Time 11/9/2019 10:46:09 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.209	125813	2128.2	75.8	145052.4	32254	109.541 ng/ml
7-aminoclonazepam	4.318	388890	43646.1	84.0	8584.0	21369	866.109 ng/ml
a-hydroxyalprazolam	5.714	65383	589.4	59.6	590.3	3456	1043.882 ng/ml
alpha-PVP	4.412	5511651	227378.7	52.4	146126.9	234521	1009.069 ng/ml
Alprazolam	5.787	1198835	1228.4	111.6	7408.9	42604	1020.960 ng/ml
Amphetamine	3.142	3335810	19658.9	51.5	15616.4	75705	934.248 ng/ml
Benzoylcegonine	3.941	217850	162531.9	7.9	2995.8	6559	1084.507 ng/ml
Buprenorphine	5.703	29977	1922.0	16.6	6648.3	11161	105.796 ng/ml
Bupropion	4.830	4646799	2685880.6	60.1	2952.8	209580	946.458 ng/ml
Carisoprodol	5.738	893884	798060.6	58.4	18701.2	43631	997.344 ng/ml
Citalopram	5.272	2558955	168442.2	46.6	703141.9	117980	1003.488 ng/ml
Clonazepam	5.633	185273	250381.0	33.4	63111.6	3668	969.111 ng/ml
Cocaine	4.317	3790898	426984.0	44.7	175320.2	302586	1003.950 ng/ml
Codeine	2.678	496483	465.4	104.9	130943.6	27087	972.642 ng/ml
Cyclobenzaprine	5.640	1744592	9447.3	9.6	2711.3	69567	997.697 ng/ml
Dextromethorphan	5.316	1423023	228551.3	75.8	93420.8	68506	1002.512 ng/ml
Dextrorphan	4.177	1883761	336718.7	216.3	498452.2	220227	987.825 ng/ml
Diazepam	5.957	828935	5740.3	85.8	5755.3	41706	999.478 ng/ml
Dihydrocodeine	2.637	1682369	73111.3	64.2	73453.6	126675	838.252 ng/ml
Diphenhydramine	5.347	8245649	172320.2	33.3	38916.6	444032	1014.563 ng/ml
Doxylamine	4.569	16202613	2015453.7	96.9	14004.2	710791	1001.711 ng/ml
EDDP	5.305	2743291	1182396.9	241.6	174767.0	315623	1019.619 ng/ml
Fentanyl	5.138	222267	5918.7	80.4	1464.7	102142	109.255 ng/ml
Fluoxetine	5.721	1186584	264637.7	8.7	102405.4	50902	1013.544 ng/ml
Hydrocodone	3.089	1873906	10713.5	40.3	559.1	118581	906.078 ng/ml
Hydromorphone	1.713	1789312	4068776.0	73.4	40744.5	69961	996.806 ng/ml
Ketamine	4.092	4291270	3584269.6	37.1	41810.9	226153	967.139 ng/ml
Lamotrigine	4.350	237240	490.5	88.6	17335.2	43631	721.532 ng/ml
Lorazepam	5.761	61428	3747.1	56.7	663.9	42604	1102.104 ng/ml
Meprobamate	4.968	594093	821047.7	29.3	148228.3	28111	1020.142 ng/ml
Methadone	5.673	6156815	227239.1	46.0	407159.5	299214	1008.832 ng/ml
Methamphetamine	3.299	2503738	204.6	40.5	169.8	111850	905.081 ng/ml
Metoprolol	4.369	692880	570119.9	96.5	176495.8	43631	761.903 ng/ml

AM #28 Multi-Drug Quant. Results

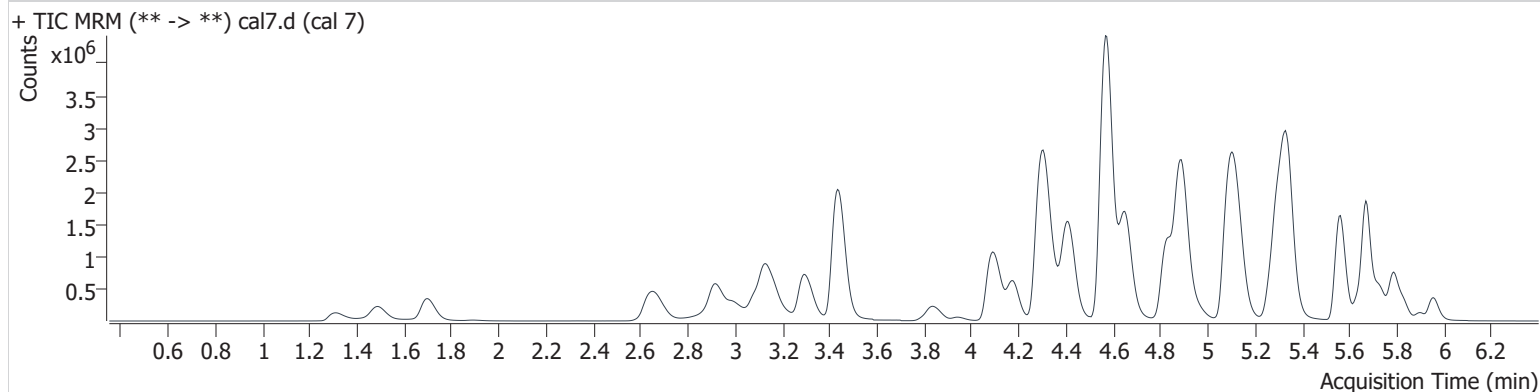
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.650	7859240	456942.1	45.5	494785.4	299214	1047.259 ng/ml
Mitragynine	5.255	598037	461650.6	39.3	186035.1	299214	878.017 ng/ml
Morphine	1.322	372638	1668425.4	21.5	173522.7	5289	987.107 ng/ml
Norbuprenorphine	5.045	4387	5818.3	109.1	4850.9	2818	94.003 ng/ml
Nordiazepam	5.902	284516	176865.3	61.5	235694.3	10126	1006.709 ng/ml
Norfentanyl	4.132	744207	323246.2	40.0	16166.7	303851	106.687 ng/ml
Norhydrocodone	3.151	191744	21911.6	41.9	2091.3	38916	1132.126 ng/ml
Noroxycodone	3.002	1194394	1250.5	40.6	940.1	44754	995.814 ng/ml
O-desmethyl-tramadol	3.435	11536604	563727.8	6.1	2388.0	604457	1012.042 ng/ml
Oxazepam	5.768	74832	3275.6	73.3	637.2	4247	1003.321 ng/ml
Oxycodone	2.920	3667905	26799.6	29.3	10800.4	186721	997.629 ng/ml
Oxymorphone	1.500	1351091	4410.5	44.0	1918727.1	61778	971.460 ng/ml
Phentermine	3.843	1202157	522.1	5.1	153.9	165689	889.016 ng/ml
Promethazine	5.568	3217478	5341342.7	31.6	19975.3	145331	1010.478 ng/ml
Quetiapine	5.550	4250547	4161861.3	59.1	2437852.5	73755	908.572 ng/ml
Sertraline	5.788	401060	420123.5	102.1	403698.6	19882	982.751 ng/ml
Temazepam	5.829	742496	750455.7	30.0	1267.9	35126	1045.475 ng/ml
Tramadol	4.288	9147924	1278905.3	3.4	826.3	537219	980.039 ng/ml
Trazodone	5.127	4183625	3890225.5	79.4	301825.4	192914	987.220 ng/ml
Venlafaxine	5.088	9288911	2262.3	37.8	179504.1	469083	1014.934 ng/ml
Zolpidem	4.888	11478643	1261212.9	29.2	5043477.3	497161	1010.955 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27 110819\QuantResults\mdq.batch.bin
Calibration Last Update 11/13/2019 4:07:19 PM

Instrument	69679	Data File	cal7.d
Type	Cal	Sample	cal 7
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-G1	Comment	
Injection Volume	2		
Acq. Date-Time	11/9/2019 12:01:35 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.204	62098	104956.1	75.4	52645.2	32938	52.932 ng/ml
7-aminoclonazepam	4.318	354726	171.9	85.7	22837.8	36361	463.756 ng/ml
a-hydroxyalprazolam	5.709	36215	1927.7	59.7	521.0	4021	496.568 ng/ml
alpha-PVP	4.412	3322747	2081.1	52.2	4196.9	285549	499.710 ng/ml
Alprazolam	5.787	769061	2133.9	111.3	1060.7	54477	512.229 ng/ml
Amphetamine	3.137	2301839	12762.2	51.4	6590.9	103634	470.560 ng/ml
Benzoylcegonine	3.941	104773	408.1	8.1	56.4	6548	522.476 ng/ml
Buprenorphine	5.709	18453	1813.6	16.3	2976.6	15699	46.379 ng/ml
Bupropion	4.830	2730666	638948.7	60.1	22664.6	232075	501.925 ng/ml
Carisoprodol	5.738	511165	310093.9	58.0	4323.6	50668	490.971 ng/ml
Citalopram	5.272	1491538	54173.7	46.3	590578.5	139797	493.342 ng/ml
Clonazepam	5.633	129263	6055.2	33.1	16515.9	4931	502.520 ng/ml
Cocaine	4.312	2569888	208232.5	44.8	5967.1	411766	500.132 ng/ml
Codeine	2.673	302315	2142.0	104.5	2003.9	32109	499.432 ng/ml
Cyclobenzaprine	5.640	691066	19362.3	9.6	6702.3	54693	502.660 ng/ml
Dextromethorphan	5.316	494540	49015.6	75.6	897.1	45465	524.929 ng/ml
Dextrorphan	4.177	581702	63046.9	215.7	40836.1	129594	518.392 ng/ml
Diazepam	5.957	538329	14431.5	87.4	12387.9	54364	497.794 ng/ml
Dihydrocodeine	2.637	883282	66884.4	63.9	11204.8	115201	483.503 ng/ml
Diphenhydramine	5.342	4698424	2845.4	33.9	30079.0	519526	494.276 ng/ml
Doxylamine	4.574	8421746	295173.8	96.7	236869.7	741478	498.972 ng/ml
EDDP	5.305	1498705	4141.0	237.4	5183.8	349235	503.398 ng/ml
Fentanyl	5.132	110355	332.9	75.9	95049.8	107252	51.669 ng/ml
Fluoxetine	5.721	376236	53481.8	8.6	38138.2	34006	480.679 ng/ml
Hydrocodone	3.089	997940	1738.3	38.3	400.2	113738	502.454 ng/ml
Hydromorphone	1.698	841181	24052.3	74.0	132058.7	64626	507.021 ng/ml
Ketamine	4.092	2672726	294238.0	37.7	13098.4	274180	496.590 ng/ml
Lamotrigine	4.350	183724	3593.1	89.0	3220.7	50668	480.562 ng/ml
Lorazepam	5.761	34598	1519.3	55.9	396.1	54477	484.205 ng/ml
Meprobamate	4.968	349793	299653.7	29.2	22163.6	33353	506.165 ng/ml
Methadone	5.669	3124767	2302.9	46.5	1825.7	307980	497.540 ng/ml
Methamphetamine	3.294	1576114	569.5	40.7	183.7	133307	476.456 ng/ml
Metoprolol	4.374	508476	14341.7	97.9	137275.1	50668	481.406 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.655	3834176	211600.3	45.8	2546.8	307980	496.149 ng/ml
Mitragynine	5.260	307669	70958.9	39.1	53835.0	307980	438.549 ng/ml
Morphine	1.312	194368	1014094.0	21.3	144657.3	5529	492.409 ng/ml
Norbuprenorphine	5.045	2469	408.2	100.7	1712.8	2655	55.775 ng/ml
Nordiazepam	5.902	184537	21567.8	62.0	70072.4	13384	493.888 ng/ml
Norfentanyl	4.137	351677	3142.6	40.4	2306.7	287336	53.316 ng/ml
Norhydrocodone	3.146	103230	8009.6	41.5	18.7	43545	546.816 ng/ml
Noroxycodone	2.997	702999	2645.0	40.7	828.6	52193	502.477 ng/ml
O-desmethyl-tramadol	3.435	6802285	368632.5	6.3	9726.6	725716	497.148 ng/ml
Oxazepam	5.768	44269	583.9	72.9	1513.3	5001	503.828 ng/ml
Oxycodone	2.915	2082252	20527.8	29.6	689.1	208530	507.056 ng/ml
Oxymorphone	1.485	794675	105089.5	44.3	918.5	68823	512.373 ng/ml
Phentermine	3.843	827277	425.6	5.0	1047.5	212811	475.923 ng/ml
Promethazine	5.568	1056575	8281.4	31.3	24857.7	98166	491.227 ng/ml
Quetiapine	5.555	2315206	337937.0	58.8	1099400.0	70574	516.983 ng/ml
Sertraline	5.788	166343	164041.4	100.7	3747.4	16171	501.041 ng/ml
Temazepam	5.829	456018	4010.1	30.3	1358.9	44984	501.383 ng/ml
Tramadol	4.288	5931099	269961.6	3.4	716.8	724637	470.586 ng/ml
Trazodone	5.127	2320497	323368.2	79.5	895.2	205319	514.277 ng/ml
Venlafaxine	5.094	5604312	278665.2	38.1	33076.5	576254	498.701 ng/ml
Zolpidem	4.890	6841936	2105.7	29.6	197728.5	601119	498.229 ng/ml